GALLAGHER

EST 1968

ADDENDUM NO. 1

TO THE CONTRACT DOCUMENTS FOR:

KAUFMAN COUNTY JUSTICE CENTER AND KAUFMAN COUNTY PET ADOPTION CENTER

JANUARY 15, 2021

GENERAL CLARIFICATIONS TO ALL PROPOSERS

1. **KAUFMAN COUNTY JUSTICE CENTER – HOK ARCHITECTS ADDENDUM NO. 1:**
The attached Addendum No. 1 to the Drawings and Specifications for Kaufman County Justice Center, as prepared by HOK Architects and dated January 15, 2021 is included in this Addendum and shall become a part of the Contract Documents for this project.

2. **KAUFMAN COUNTY PET ADOPTION CENTER– QUORUM ARCHITECTS ADDENDUM NO. 1:**
The attached Addendum No. 1 to the Drawings and Specifications for Kaufman County Pet Adoption Center, as prepared by Quorum Architects and dated January 14, 2021 is included in this Addendum and shall become a part of the Contract Documents for this project.

A REMINDER TO EACH BIDDER: Please review the Gallagher "Contract Conditions and CSP Package Scope of Work" specification Volume #1 in its entirety. Reference the bid package as it pertains to your scope, submit your proposal on the bid form provided within this specification. Include the performance & payment bond costs in your base bid (if proposal is more the $25,000).

CLARIFICATIONS AND CHANGES TO SECTION 01 81 00 SCOPE OF WORK

KAUFMAN COUNTY JUSTICE CENTER - REFER TO ATTACHED ADDENDUM #1

1. **CLARIFICATIONS TO CSP BID PACKAGE 07-C, SPRAYED ON FIREPROOFING AND SPRAYED INSULATION:**
a. ADD Specification Section 07 81 23 – Intumescent Fire Protection to this CSP Bid Package in its entirety.

2. **CLARIFICATIONS TO CSP BID PACKAGE 32-C, FENCING:**
a. ADD Specification Section 32 31 13 – Chain Link Fences and Gates to this CSP Bid Package in its entiretly.

KAUFMAN COUNTY PET ADOPTION CENTER – REFER TO ATTACHED ADDENDUM #1

DOCUMENT 00 91 13 – ADDENDUM No. 01
15 January 2021

1.1 NOTICE TO BIDDERS

A. This Addendum forms a part of the Contract Documents is issued to all registered plan holders. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda.

B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

1.2 ATTACHMENTS

ADDENDUM NARRATIVE FORMS which list new and revised Drawings and Specifications.

NEW AND REVISED DRAWINGS

NEW AND REVISED SPECIFICATIONS

Architect's Seal

END OF DOCUMENT 00 91 13

HELLMUTH, OBATA + KASSABAUM, L.P.
717 North Harwood Street, Suite 2850, LB 8
Dallas, TX 75201 USA
t + 1 214 720 6000 / f + 214 720 6005

ADDENDUM No. 01

Project:	Kaufman County Justice Center	**Addendum No.**	01
Client:	Kaufman County	**Issue Date:**	January 15, 2021
HOK Project #:	20.09003.00	**File:**	H1.2

Description: The following documents are included as part of Addendum No. 01.

01 GENERAL

G000

1. Official Address updated

G001

1. Index Sheet Revised per new sheets added

G007

1. New sheet added for UL assemblies

G008

1. Sheet number revised, official address, special construction revision

G010-A, G010B, G011, G012, G013

1. Legend revised, added notes, smoke curtain locations, elevator lobby rated partition revised.

03 LANDSCAPE

L201

1. Plan updated with accurate “H7 - Silva Cell” callouts.

L500

1. Notes on Detail 16|L500 updated to adjust the max post distance to 4’0” & to include TAS note.
2. Detail 17|L500 - Handrail post size increased to 1-1/4”.

06 ARCHITECTURAL

A111, A112, A113, A114

1. Door dim revised; wall types revised at staff elevator lobby added, shifted, changed revisions.

2. Background coordinated with floorplan door revisions

A111, A112, A113, A114, A205

1. Added doors, shifted doors locations, door swing change, background revised to show low roof.

A212, A213, A214

1. Background coordinated with floorplan door added, shifted, changed revisions

A301, A302, A303, A304

1. Background coordinated with floorplan door added, shifted, changed revisions

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Dallas, TX 75201 USA
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ADDENDUM No. 01

A411, A412

1. Ramp hand rail revised

A901, A902

1. Door schedule revised, door type revisions

08 DETENTION

QD101, QD102

1. MISC. Security Wall line type updates, per floor plan wall adjustments

QD901

2. MISC. frame elevation updates, door schedule updates

08.1 ARCHITECTURAL GRAPHICS

AG100

1. Added new introduction sheet that specifies sign fabricator is responsible for obtaining all applicable permits and certificates required for their work.

AG107

1. Added sign type DM1 – No Storage signs.

AG301

1. Added (6) EE1 – Exit Route signs.
2. Added (4) DM1 – No Storage signs.
3. Removed (2) EE1 – Exit signs.

AG302

1. Added (1) EE1 – Exit Route sign.
2. Added (3) DM1 – No Storage signs.

AG303

1. Added (4) EE1 – Exit Route signs.
2. Added (3) DM1 – No Storage signs.
3. Moved (2) R1 – Room ID signs.

AG304

1. Added (4) DM1 – No Storage signs.
2. Removed (2) EE1 – Exit Route signs.
3. Moved (2) R1 – Room ID signs.

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ADDENDUM No. 01

AG901

1. Added (4) DM1 – No Storage signs.
2. EE1 – Exit/Exit Route signs quantity change.

AG902

1. Added (3) DM1 – No Storage signs.
2. EE1 – Exit/Exit Route signs quantity change.
3. OC – Maximum Occupancy sign message change.

AG903

1. Added (3) DM – No Storage signs.
2. EE1 – Exit/Exit Route signs quantity change.
3. OC – Maximum Occupancy sign message change.

AG904

1. Added (4) DM – No Storage signs.
2. EE1 – Exit/Exit Route signs quantity change.
3. OC – Maximum Occupancy sign message change.

09 FIRE PROTECTION

FP001

1. General notes #17 and #18 added.

10 PLUMBING

P002

2. Additional information added regarding elevator sump pump oil alert.
3. Hot water supply temperature lowered to 110°F.

P007

1. Plan notes added.
2. Cleanouts added.

P101

1. Cleanouts added.

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P102

1. Cleanouts added.

P103

1. Cleanouts added.

P104

1. Cleanouts added.

P701

1. Detail 6 revised to provide 100°F hot water.

11 MECHANICAL

M102

1. Diffuser shifted down.

M103

1. Slot diffuser changed to S1.
2. Conference room diffusers updated to new RCP.

M104

1. Slot diffuser changed to S1.
2. Return air device shifted down.
3. Conference room diffusers updated to new RCP.

M201

1. Overflow condensate drain added.
2. Note #6 added.

M202

1. Overflow condensate drain added.
2. Note #3 revised.

M203

1. Overflow condensate drain added.
2. Note #3 revised.

M204

1. Overflow condensate drain added.
2. Note #3 revised.

M701

1. Fire Damper access door note revised.

12 ELECTRICAL

E001

1. General note added to cover sheet regarding elevator shunt trip.

E103

2. Updated receptacles to new floor plan.
3. Note regarding hold open elevator vestibule door added.

E104

1. Updated receptacles to new floor plan.
2. Note regarding hold open elevator vestibule door added.

E201

1. Updated emergency lights to certain rooms.

E202

1. Updated lights to new RCP.

E203

1. Updated lights to new RCP.

E204

1. Updated lights to new RCP.

E301

1. Added callout for MDS.

E804

1. Added MDS schedule.

14 TELECOM

TT203

2. Relocated floor box in Conf. Room 2112.
3. Relocated floor box in Conf. Room 2111.

TT204

2. Relocated floor box in Conf. Room 3112.

3. Relocated floor box in Conf. Room 3111.

15 SECURITY

TY202

1. Relocated card reader, door contact, and intercom on door #1115 in CIRC (Public) 1120.
2. Relocated card reader and door contact on door # 1110A in CIRC (Staff) 1110.

TY203

1. Relocated card reader and door contact on door #2115 in CIRC (Public) 2100.
2. Relocated card reader, door contact on door #2110A in CIRC (Staff) 2110.
3. Relocated camera L2-18 in CIRC (Staff) 2110.
4. Relocated card reader and door contact on door #2110C in CIRC (Staff) 2110.
5. Added card reader and door contact to door 2110 in CIRC (Staff) 2110.

TY204

1. Removed card reader and door contact in Jury Qualification/CPS Courtroom 3300.
2. Relocated card reader, door contact on door #3110B in CIRC (Public) 3100.

16 PROJECT MANUAL

Section 00 00 01,02,03 – Cover and Project Title Page_V1, V2, V3 – Official Address Updated

Section 00 00 01 – Table of Contents_Add01 revised

Section 01 25 01 – Substitution Request Form_Add01 added

Section 07 81 23 – Intumescent Fire Protection – Added section

Section 11 19 00 - General Provision for Detention Wk – Detention Contractor list updated

Section 11 19 50 - Security Ceiling Assemblies – updated security ceiling type information

Section 11 19 53 - Detention Hardware – updated hardware types per code requirements

Section 23 05 53 – Identification For HVAC Piping and Equipment: This section has been updated to indicate 'overflow condensate drain' and 'pump overflow condensate drain' for piping labels

Section 26 05 26 – Grounding and Bonding for Electrical Systems: This section has been updated to indicate that a combination of fabric and magnetic marker

Section 32 31 13 – Missing Chain Link Fences and Gates section added to project.

Hellmuth, Obata & Kassabaum, Inc.

NEW CONSTRUCTION OF

KAUFMAN COUNTY JUSTICE CENTER

1902 E. HWY 175
KAUFMAN, TEXAS 75142

Prepared for

KAUFMAN COUNTY

Issued Information

CONSTRUCTION DOCUMENTS

12/11/2020

PROJECT INFORMATION

PROJECT LOCATION: 100 N. WASHINGTON ST. KAUFMAN, TX 75142

PROJECT NUMBER: 20.09003.00

PROJECT AREA:

LEVEL	AREA
LEVEL 000	20,097 SF
LEVEL 100	31,523 SF
LEVEL 200	30,182 SF
LEVEL 300	17,066 SF
	98,870 SF

REFERENCE G007 FOR ADDITIONAL CODE INFORMATION

BUILDING HEIGHT: 71FT FROM LOWEST OCCUPIED LEVEL TO ROOF

TDLR/TAS PROJECT #: TABS PROJECT# TABS2021005575

PROJECT DESCRIPTION: **PHASE I**
THE NEW KAUFMAN COUNTY JUSTICE CENTER WILL BE CONSTRUCTED ON LAND OWNED BY THE COUNTY ON THE NORTH SIDE OF THE EXISTING KAUFMAN COUNTY SHERIFFS BUILDING, LOT NO. 1 49,000 AC. (PART OF THE D FALCON SURVEY, ABSTRACT NO. 151 KAUFMAN COUNTY, TEXAS). THE NEW JUSTICE CENTERN IS PLANNED TO INCORPORATE
THE FOLLOWING SPACES AND DEPARTMENTS:

- DEDICATED 422ND DISTRICT COURTROOM
- DEDICATED COUNTY COURT AT LAW #1 COURTROOM
- DEDICATED 82ND DISTRICT COURTROOM
- DEDICATED COUNTY COURT AT LAW #2 COURTROOM
- DUAL FUNCTION JURY ASSEMBLY/CHILD PROTECTIVE SERVICES COURTROOM
- JUSTICE OF THE PEACE COURT PRECINCT #1 COURTROOM
- CHAMBERS AND COURT ADMINISTRATION
- PUBLIC LAW LIBRARY
- COURT RELATED HOLDING AND SECURITY
- GRAND JURY / MEDIATION SPACE
- COUNTY CLERK
- DISTRICT CLERK
- COLLECTIONS DEPARTMENT
- DISTRICT ATTORNEY
- PUBLIC DEFENDER
- ADULT PROBATION & PRETRIAL (COURT RELATED SPACES)

THE SITE DEVELOPMENT WILL CONTAIN (BOTH EXISTING AND PROPOSED):

281	PUBLIC PARKING SPACES
13	ADA PUBLIC PARKING SPACES
65	STAFF PARKING SPACES
3	ADA STAFF PARKING SPACES
12	PARKING SPACES FOR ELECTED OFFICIALS &
103	PARKING SPACES FOR LAW ENFORMENT

PHASE II (NOT IN THE SCOPE OF THIS CONTRACT)
THE NEW KAUFMAN COUNTY JUSTICE CENTER IS DESIGNED TO HAVE TWO ADDITIONAL FUTURE EXPANSIONS AS FOLLOWS

SOUTH SIDE IS ANTICIPATED TO ADD A TOTAL OF 15,600 SF FUTURE EXPANSION
- AT LEVEL 100 (7,800SF) - 2 COURTROOMS WITH CORRESPONDING JUDGES CHAMBER, COURT ADMINISTRATION AND HOLDING AREA
- AT LEVEL 200 (7,800SF) - STACKING AREA.

THE NORTH SIDE HAS A RESERVED AREA OF 30'X120' FOR A POTENTIAL EXPANSION 10,800SF
- AT LEVEL GROUND (3,600SF)
- AT LEVEL 100 (3,600SF)
- AT LEVEL 200 (3,600SF)
- AT LEVEL 300 (3,600SF)

GOVERNING CODES:

2015 INTERNATIONAL BUILDING CODE	2015 INT. BUILDING CODE NCTCOG AMENDMENTS ORD O-28-19
2015 INTERNATIONAL PLUMBING CODE	2015 INT. PLUMBING CODE NCTCOG AMENDMENTS ORD O-28-19
2015 INTERNATIONAL MECHANICAL CODE	2015 INT. MECHANICAL CODE NCTCOG AMENDMENTS ORD O-28-19
2014 NATIONAL ELECTRICAL CODE	2015 NATIONAL ELECTRICAL CODE NCTCOG AMENDMENTS ORD O-28-19
2015 INTERNATIONAL ENERGY CONSERVATION CODE	2015 INT. ENERGY CONSERVATION CODE NCTCOG AMENDMENTS ORD O-28-19
2015 INTERNATIONAL FUEL GAS CODE	2015 INT. FUEL GAS CODE NCTCOG AMENDMENTS ORD O-28-19
2012 INTERNATIONAL FIRE CODE	2012 INT. FIRE CODE NCTCOG AMENDMENTS ORD O-28-19

OTHER CODES: ELIMINATION OF ARCHITECTURAL BARRIERS TEXAS GOVERNMENT CODE, CHAPTER 469,2012 TEXAS ACCESSIBILITY STANDARDS (TAS) TEXAS ADMINISTRATIVE CODE, TILE 37, PART 9 TEXAS COMMISSION ON JAIL STANDARDS

CONSTRUCTION REQUIREMENTS:

CONSTRUCTION TYPE: I-B, FULLY SPRINKLERED - MAIN COURTHOUSE BUILDING

MIXED OCCUPANCY BUSINESS & ASSEMBLY
0 HRS SEPARATION

INCIDENTAL USE: I-3
1 HR FIRE RESITANCE RATED SMOKE BARRIER

BUILDING ELEMENT	CONSTRUCTION TYPE	FIRE RATING
STRUCTURAL FRAME PRIMARY	I-B	2HRS
COLUMNS –GIRDERS –TRUSSES	I-B	2HRS
ROOF ASSEMBLY / BEAMS	I-B	1HRS
FLOOR BEAMS	I-B	2HRS
EXT. BEARING WALLS	I-B	2HRS
INT. BEARING WALLS	I-B	2HRS
EXT. NON-BEARING WALLS	I-B	0HRS
INT. NON-BEARING WALLS	I-B	0HRS

FIRE PROTECTION ASSEMBLIES

TYPE OF ASSEMBLY	WALL ASSEMBLY RATING
ENCLOSURES FOR SHAFTS, INTERIOR EXIT STAIRWAYS AND INTERIOR EXIT RAMPS.	2HRS
OTHER FIRE PARTITIONS	1HR

MEANS OF EGRESS

MAX. DISTANCE TO EXITS	W/ SPRINKLERS
BUSINESS	300FT
ASSEMBLY	250FT
EGRESS CORRIDORS	
MIN. WIDTH	44 IN
MIN. HEIGHT	7FT 6IN
DEAD END CORRIDORS	
BUSINESS	50FT
ASSEMBLY	20FT
COMMON PATH OF TRAVEL	
BUSINESS	100FT
ASSEMBLY	75FT

BUILDING ENVELOPE GOAL

ROOF		EXTERIOR WALLS		GLAZING			EUI
OVERALL R-VALUE	OVERALL U-VALUE	OVERALL R-VALUE	OVERALL U-VALUE	OVERALL R-VALUE	OVERALL U-VALUE	SHGC	
38.8	0.0258	19.2	0.0520	0.290	0.348	0.23	36.

AUTHORITIES HAVING JURISDICTION

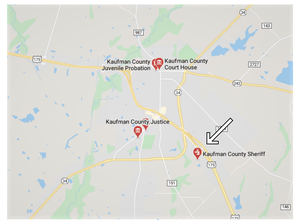
MARCY RATCLIFF
DEVELOPMENT SERVICES DIRECTOR

CITY OF KAUFMAN
PO BOX 1168
209 SOUTH WASHINGTON STREET
KAUFMAN, TEXAS 75142
PHONE: 972-932-2216 EXT. 117
EMAIL: KAUFMANPLANNING@KAUFMANTX.ORG

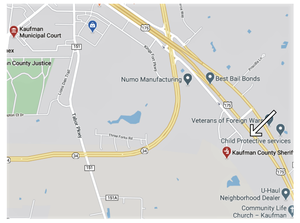
RONNIE DAVIS
FIRE CHIEF / FIRE INSPECTOR

301 S. MADISON STREET
KAUFMAN, TEXAS 75142
972-932-3538
EMAIL: RDAVIS@KAUFMANTX.ORG

OVERALL MAP



VICINITY MAP



SITE MAP

HOK
Architecture
717 North Harwood Street
Suite 2850, LB 8
Dallas, Texas 75201

Landscape, HOK
Detention, HOK
Architectural Graphics, HOK
Audio Visual, HOK
Telecom, HOK
Security, HOK

MEPCE
MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

VOLUME 1

01 GENERAL

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
G000	COVER SHEET	X	X
G001	DRAWING INDEX	X	X
G002	SYMBOLS AND ABBREVIATIONS	X	X
G003	ACCESSIBILITY REQUIREMENTS	X	X
G004	RESTROOM AND ACCESSORY ACCESS DIAGRAMS	X	X
G005	ELEVATOR, STAIR ACCESS DIAGRAMS	X	X
G006	UL ASSEMBLIES	X	X
G007	UL ASSEMBLIES 1	X	X
G008	CODE REVIEW	X	X
G010-A	LIFE SAFETY PLAN - GROUND LEVEL	X	X
G010-B	LIFE SAFETY PLAN - GROUND LEVEL WALKWAY	X	X
G011	LIFE SAFETY PLAN - LEVEL 1	X	X
G012	LIFE SAFETY PLAN - LEVEL 2	X	X
G013	LIFE SAFETY PLAN - LEVEL 3	X	X

01 GENERAL: 14

02 CIVIL

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
C001	GENERAL NOTES	X	X
C101	EXISTING CONDITIONS & DEMOLITION PLAN	X	X
C102	OVERALL ENGINEERING SITE PLAN	X	X
C103	ENGINEERING SITE PLAN	X	X
C104	ENGINEERING SITE PLAN	X	X
C105	FIRE PROTECTION PLAN	X	X
C106	OVERALL GRADING PLAN	X	X
C107	GRADING PLAN	X	X
C108	GRADING PLAN	X	X
C109	GRADING PLAN	X	X
C110	GRADING PLAN	X	X
C111	PRE-DEVELOPMENT DRAINAGE AREA MAP	X	X
C112	POST-DEVELOPMENT DRAINAGE AREA MAP	X	X
C113	PROPOSED DRAINAGE AREA MAP	X	X
C114	OVERALL UTILITY PLAN	X	X
C115	DRAINAGE PLAN	X	X
C116	DRAINAGE PLAN	X	X
C117	INLET CALCULATIONS	X	X
C118	DRAINAGE PROFILE	X	X
C119	DRAINAGE PROFILE	X	X
C120	WATER PLAN	X	X
C121	WATER PLAN	X	X
C122	SANITARY SEWER PLAN & PROFILE	X	X
C123	OVERALL EROSION CONTROL PLAN	X	X
C124	EROSION CONTROL DETAILS	X	X
C401	CIVIL DETAILS	X	X
C402	CIVIL DETAILS	X	X

02 CIVIL: 27

03 LANDSCAPE

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
L001	NOTES & SCHEDULES	X	X
L002	COMPOSITE SITE PLAN	X	X
L100	TREE REMOVAL & PROTECTION PLAN	X	X
L200	MATERIALS PLAN	X	X
L201	MATERIALS PLAN - ENLARGEMENT	X	X
L210	LAYOUT PLAN	X	X
L211	LAYOUT PLAN - ENLARGEMENT	X	X
L300	TREE PLANTING PLAN	X	X
L301	PLANTING PLAN	X	X
L302	PLANTING PLAN - AREA 'A'	X	X
L303	PLANTING PLAN - AREA 'B'	X	X
L400	SECTIONS	X	X
L500	DETAILS	X	X
L501	SITE SECURITY DETAILS	X	X
L502	SITE SECURITY DETAILS	X	X
L503	SITE WALL DETAILS	X	X
L504	SITE WALL DETAILS	X	X
L505	SITE WALL DETAILS	X	X
L506	SITE STAIR DETAILS	X	X
L510	PLANTING DETAILS	X	X

03 LANDSCAPE: 20

04 STRUCTURAL

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
S001	STRUCTURAL NOTES	X	X
S002	STRUCTURAL NOTES	X	X
S003	SPECIAL INSPECTIONS	X	X
S101	WIND LOADING PLANS	X	X
S102	SNOW LOADING PLANS	X	X
S200	GROUND LEVEL FOUNDATION PLAN	X	X
S200R	GROUND LEVEL REINFORCING PLAN	X	X
S201	LEVEL 1 FOUNDATION / FRAMING PLAN	X	X
S201R	LEVEL 1 REINFORCING PLAN	X	X
S202	LEVEL 2 FRAMING PLAN	X	X
S203	LEVEL 3 / LOW ROOF FRAMING PLAN	X	X
S204	HIGH ROOF FRAMING PLAN	X	X
S210	INMATE WALKWAY FRAMING PLANS AND ELEVATIONS	X	X
S211	INMATE WALKWAY FRAMING PLANS AND ELEVATIONS	X	X
S212	SCREENWALL FRAMING PLAN	X	X
S301	TYPICAL CONCRETE DETAILS & SECTIONS	X	X
S302	TYPICAL CONCRETE DETAILS & SECTIONS	X	X
S303	TYPICAL CONCRETE DETAILS & SECTIONS	X	X
S311	CONCRETE DETAILS & SECTIONS	X	X
S312	CONCRETE DETAILS & SECTIONS	X	X
S313	CONCRETE DETALS AND SECTIONS	X	X
S314	INMATE WALKWAY DETAILS AND SECTIONS	X	X
S401	TYPICAL MASONRY DETAILS & SECTIONS	X	X
S501	TYPICAL STEEL DETAILS & SECTIONS	X	X
S502	TYPICAL STEEL DETAILS & SECTIONS	X	X
S503	TYPICAL STEEL DETAILS & SECTIONS	X	X
S504	TYPICAL STEEL DETAILS & SECTIONS	X	X
S511	STEEL DETAILS & SECTIONS	X	X
S512	STEEL DETAILS & SECTIONS	X	X
S513	STEEL DETAILS & SECTIONS	X	X
S514	STEEL DETAILS & SECTIONS	X	X
S601	BRACE ELEVATIONS	X	X
S602	FRAMING PLANS AND ELEVATIONS	X	X
S611	BRACING DETAILS	X	X

04 STRUCTURAL: 34

06 ARCHITECTURE

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
A100	STAGING SITE PLAN	X	X
A101	ARCHITECTURAL SITE PLAN	X	X
A111	OVERALL DIMENSION PLAN - GROUND LEVEL	X	X
A112	OVERALL DIMENSION PLAN - LEVEL 1	X	X
A113	OVERALL DIMENSION PLAN - LEVEL 2	X	X
A114	OVERALL DIMENSION PLAN - LEVEL 3	X	X
A201	FLOOR PLAN - GROUND LEVEL	X	X
A202	FLOOR PLAN - LEVEL 1	X	X
A203	FLOOR PLAN - LEVEL 2	X	X
A204	FLOOR PLAN - LEVEL 3	X	X
A205	ROOF PLAN	X	X
A211	FINISH PLAN - GROUND LEVEL	X	X
A212	FINISH PLAN - LEVEL 1	X	X
A213	FINISH PLAN - LEVEL 2	X	X
A214	FINISH PLAN - LEVEL 3	X	X
A221	FF&E PLAN - GROUND LEVEL	X	X
A222	FF&E PLAN - LEVEL 1	X	X
A223	FF&E PLAN - LEVEL 2	X	X
A224	FF&E PLAN - LEVEL 3	X	X
A301	RCP - GROUND LEVEL	X	X
A302	RCP -LEVEL 1	X	X
A303	RCP -LEVEL 2	X	X
A304	RCP - LEVEL 3	X	X
A401	COURT ROOM PLANS AND ELEVATIONS	X	X
A402	COURT ROOM PLANS AND ELEVATIONS	X	X
A403	COURT ROOM PLANS AND ELEVATIONS	X	X
A404	COURT ROOM PLANS AND ELEVATIONS	X	X
A405	COURT ROOM MILLWORK ELEVATIONS	X	X
A411	JAIL TO COURTHOUSE CONNECTION	X	X
A412	JAIL TO COURTHOUSE CONNECTION	X	X
A501	EXTERIOR ELEVATIONS	X	X
A502	EXTERIOR ELEVATIONS	X	X
A511	ENLARGED EXTERIOR VIEWS	X	X
A512	ENLARGED EXTERIOR VIEWS	X	X
A513	ENLARGED EXTERIOR VIEWS	X	X
A514	ENLARGED EXTERIOR VIEWS	X	X
A515	ENLARGED EXTERIOR VIEWS - TYPICAL CONDITIONS	X	X
A516	ENLARGED EXTERIOR VIEWS - TYPICAL CONDITIONS	X	X
A517	ENLARGED EXTERIOR VIEWS - TYPICAL CONDITIONS	X	X
A518	ENLARGED EXTERIOR VIEWS - TYPICAL CONDITIONS	X	X
A521	BUILDING SECTIONS	X	X
A522	BUILDING SECTIONS	X	X
A601	WALL SECTIONS	X	X
A602	WALL SECTIONS	X	X
A603	WALL SECTIONS	X	X
A621	EXTERIOR DETAILS - SECTION	X	X
A622	EXTERIOR DETAILS - SECTION	X	X
A623	EXTERIOR DETAILS - SECTION	X	X
A624	EXTERIOR DETAILS - SECTION	X	X
A625	EXTERIOR DETAILS - SECTION	X	X
A626	EXTERIOR DETAILS - SECTION	X	X
A627	EXTERIOR DETAILS - SECTION	X	X
A628	EXTERIOR DETAILS - SECTION	X	X
A631	EXTERIOR DETAILS - PLAN	X	X
A632	EXTERIOR DETAILS - PLAN	X	X
A633	EXTERIOR DETAILS - PLAN	X	X
A634	EXTERIOR DETAILS - PLAN	X	X
A635	EXTERIOR DETAILS - PLAN	X	X
A641	TYPICAL ROOF AND FLASHING DETAILS	X	X
A701	INTERIOR ELEVATIONS	X	X
A702	INTERIOR ELEVATIONS	X	X
A703	INTERIOR ELEVATIONS	X	X
A711	ENLARGED INTERIOR VIEWS AND ELEVATIONS	X	X
A712	ENLARGED INTERIOR PLANS	X	X
A713	ENLARGED INTERIOR VIEWS AND ELEVATIONS	X	X
A714	ENLARGED INTERIOR VIEWS AND ELEVATIONS	X	X
A715	ENLARGED INTERIOR VIEWS AND ELEVATIONS	X	X
A801	VERTICAL CIRCULATION - STAIRS	X	X
A802	VERTICAL CIRCULATION - STAIRS	X	X
A803	VERTICAL CIRCULATION - STAIRS	X	X
A811	VERTICAL CIRCULATION - ELEVATORS	X	X
A812	VERTICAL CIRCULATION - ELEVATORS	X	X
A821	RAILING- HORIZ PIPE DETAIL	X	X
A822	RAILING - WALL MOUNTED & INTERMEDIATE RAIL DETAILS	X	X
A901	DOOR SCHEDULE	X	X
A902	DOOR SCHEDULE	X	X
A903	HOLLOW METAL FRAME DETAILS	X	X
A904	ALUMINUM FRAME DETAILS	X	X
A911	INTERIOR PARTITION TYPES GWB	X	X
A912	INTERIOR PARTITION TYPES GWB	X	X
A913	TYP DETAILS - INTERIOR GWB PARTITION	X	X
A914	TYP DETAILS - INTERIOR GWB PARTITION HEADS AT COMPOSITE SLAB	X	X
A915	TYP DETAILS - INTERIOR GWB PARTITION HEADS FOR SHAFT WALLS	X	X
A916	TYP DETAILS - PARTITION PENETRATION & MISC DETAILS	X	X
A917	INTERIOR PARTITION TYPES MASONRY	X	X
A918	TYP DETAILS - INTERIOR MASONRY PARTITIONS	X	X
A919	TYP DETAILS - INTERIOR MASONRY PARTITION HEADS	X	X
A920	TYP DETAILS - INTERIOR GWB PARTITION HEADS AT CONC SLAB	X	X
A931	INTERIOR PLAN DETAILS	X	X
A932	INTERIOR PLAN DETAILS	X	X
A933	INTERIOR PLAN DETAILS	X	X
A941	INTERIOR DETAILS	X	X
A942	INTERIOR DETAILS	X	X
A943	INTERIOR DETAILS	X	X
A944	INTERIOR DETAILS - LOBBY FEATURE WALL	X	X
A945	INTERIOR COURTROOM DETAILS	X	X
A961	CEILING DETAILS	X	X
A962	ENLARGED CEILING PLANS AND DETAILS	X	X
A971	MILLWORK DETAILS	X	X

06 ARCHITECTURE: 99

08 DETENTION

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
QD101	COMPOSITE DETENTION FLOOR PLANS - LOWER LEVEL & LEVEL 1	X	X
QD102	COMPOSITE DETENTION FLOOR PLANS -LEVELS 2 & 3	X	X
QD201	DETENTION FLOOR PLAN - GROUND LEVEL	X	X
QD202	DETENTION FLOOR PLAN - LEVEL 1	X	X
QD203	DETENTION FLOOR PLAN - LEVEL 2	X	X
QD204	DETENTION FLOOR PLAN - LEVEL 3	X	X
QD301	DETENTION RCP - GROUND LEVEL	X	X
QD302	DETENTION RCP - LEVEL 1	X	X
QD303	DETENTION RCP - LEVEL 2	X	X
QD304	DETENTION RCP - LEVEL 3	X	X
QD901	DETENTION DOOR SCHEDULE	X	X
QD902	DETENTION HOLLOW METAL FRAME DETAILS	X	X
QD903	DETENTION DETAILS	X	X
QD961	DETENTION CEILING DETAILS 1	X	X

08 DETENTION: 14

08.1 ARCHITECTURAL GRAPHICS

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
AG100	ARCHITECTURAL GRAPHICS - OVERVIEW - GENERAL NOTES		X
AG101	ARCHITECTURAL GRAPHICS - OVERVIEW - EXTERIOR	X	X
AG102	ARCHITECTURAL GRAPHICS - OVERVIEW - EXTERIOR	X	X
AG103	ARCHITECTURAL GRAPHICS - OVERVIEW - INTERIOR	X	X
AG104	ARCHITECTURAL GRAPHICS - OVERVIEW - INTERIOR	X	X
AG105	ARCHITECTURAL GRAPHICS - OVERVIEW - INTERIOR	X	X
AG106	ARCHITECTURAL GRAPHICS - OVERVIEW - INTERIOR	X	X
AG107	ARCHITECTURAL GRAPHICS - OVERVIEW - INTERIOR	X	X
AG108	ARCHITECTURAL GRAPHICS - OVERVIEW - INTERIOR	X	X
AG109	ARCHITECTURAL GRAPHICS - OVERVIEW - INTERIOR	X	X
AG301	ARCHITECTURAL GRAPHICS - PLAN LG	X	X
AG302	ARCHITECTURAL GRAPHICS - PLAN L1	X	X
AG303	ARCHITECTURAL GRAPHICS - PLAN L2	X	X
AG304	ARCHITECTURAL GRAPHICS - PLAN L3	X	X
AG305	ARCHITECTURAL GRAPHICS - SITE PLAN	X	X
AG901	ARCHITECTURAL GRAPHICS - SCHEDULE LG	X	X
AG902	ARCHITECTURAL GRAPHICS - SCHEDULE L1	X	X
AG903	ARCHITECTURAL GRAPHICS - SCHEDULE L2	X	X
AG904	ARCHITECTURAL GRAPHICS - SCHEDULE L3	X	X
AG905	ARCHITECTURAL GRAPHICS - SCHEDULE - SITE PLAN	X	X

08.1 ARCHITECTURAL GRAPHICS: 20

09 FIRE PROTECTION

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
FP001	FIRE PROTECTION GENERAL NOTES AND LEGEND	X	X
FP002	FIRE PROTECTION ONE-LINE DIAGRAMS	X	X
FP101	FIRE PROTECTION PLAN - GROUND LEVEL	X	X
FP102	FIRE PROTECTION PLAN - LEVEL 1	X	X
FP103	FIRE PROTECTION PLAN - LEVEL 2	X	X
FP104	FIRE PROTECTION PLAN - LEVEL 3	X	X
FP105	FIRE PROTECTION - JAIL TO COURTHOUSE CONNECTION	X	X

09 FIRE PROTECTION: 7

10 MECHANICAL ELECTRICAL PLUMBING

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
MEP001	MECHANICAL ELECTRICAL PLUMBING SITE PLAN	X	X
MEP1.01	MECHANICAL ELECTRICAL PLUMBING ROOF PLAN	X	X

10 MECHANICAL ELECTRICAL PLUMBING: 2

10 PLUMBING

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
P001	PLUMBING GENERAL NOTES AND LEGEND	X	X
P002	PLUMBING SCHEDULES	X	X
P003	PLUMBING ANNOTATION PLAN - GROUND LEVEL	X	X
P004	PLUMBING ANNOTATION PLAN - LEVEL 1	X	X
P005	PLUMBING ANNOTATION PLAN - LEVEL 2	X	X
P006	PLUMBING ANNOTATION PLAN - LEVEL 3	X	X
P007	PLUMBING UNDERSLAB PLAN	X	X
P101	PLUBMING WASTE AND VENT PLAN - GROUND LEVEL	X	X
P102	PLUMBING WASTE AND VENT PLAN - LEVEL 1	X	X
P103	PLUMBING WASTE AND VENT PLAN - LEVEL 2	X	X
P104	PLUMBING WASTE AND VENT PLAN - LEVEL 3	X	X
P201	PLUMBING SUPPLY PLAN - GROUND LEVEL	X	X
P202	PLUMBING SUPPLY PLAN - LEVEL 1	X	X
P203	PLUMBING SUPPLY PLAN - LEVEL 2	X	X
P204	PLUMBING SUPPLY PLAN - LEVEL 3	X	X
P301	PLUMBING ENLARGED PLAN	X	X
P401	PLUMBING ELEVATIONS & SECTIONS	X	X
P402	PLUMBING ELEVATIONS & SECTIONS	X	X
P403	PLUMBING ELEVATIONS & SECTIONS	X	X
P404	PLUMBING WASTE AND VENT RISER DIAGRAM	X	X
P701	PLUMBING DETAILS	X	X
P702	PLUMBING DETAILS	X	X

10 PLUMBING: 22

11 MECHANICAL

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
M001	MECHANICAL GENERAL NOTES AND LEGEND	X	X
M002	MECHANICAL SCHEDULES	X	X
M003	MECHANICAL SCHEDULES	X	X
M101	MECHANICAL FLOOR PLAN - GROUND LEVEL	X	X
M102	MECHANICAL FLOOR PLAN - LEVEL 1	X	X
M103	MECHANICAL FLOOR PLAN - LEVEL 2	X	X
M104	MECHANICAL FLOOR PLAN - LEVEL 3	X	X
M201	MECHANICAL PIPING PLAN - GROUND LEVEL	X	X
M202	MECHANICAL PIPING PLAN - LEVEL 1	X	X
M203	MECHANICAL PIPING PLAN - LEVEL 2	X	X
M204	MECHANICAL PIPING PLAN - LEVEL 3	X	X
M301	MECHANICAL ENLARGED PLANS AND SECTION VIEWS	X	X
M302	MECHANICAL ENLARGED PLANS AND SECTION VIEWS	X	X
M401	MECHANICAL ELEVATIONS & SECTIONS	X	X
M501	MECHANICAL ONE-LINE DIAGRAMS	X	X
M502	MECHANICAL ONE-LINE DIAGRAMS	X	X
M601	MECHANICAL CONTROL DIAGRAMS	X	X
M701	MECHANICAL DETAILS	X	X
M702	MECHANICAL DETAILS	X	X

11 MECHANICAL: 19

12 ELECTRICAL

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
E001	ELECTRICAL GENERAL NOTES AND LEGEND	X	X
E101	ELECTRICAL POWER PLAN - GROUND LEVEL	X	X
E102	ELECTRICAL POWER PLAN - LEVEL 1	X	X
E103	ELECTRICAL POWER PLAN - LEVEL 2	X	X
E104	ELECTRICAL POWER PLAN - LEVEL 3	X	X
E201	ELECTRICAL LIGHTING PLAN - GROUND LEVEL	X	X
E202	ELECTRICAL LIGHTING PLAN - LEVEL 1	X	X
E203	ELECTRICAL LIGHTING PLAN - LEVEL 2	X	X
E204	ELECTRICAL LIGHTING PLAN - LEVEL 3	X	X
E301	ELECTRICAL ENLARGED PLANS	X	X
E601	ELECTRICAL ONE-LINE DIAGRAMS	X	X
E801	ELECTRICAL SCHEDULES	X	X
E802	ELECTRICAL SCHEDULES	X	X
E803	ELECTRICAL SCHEDULES	X	X
E804	ELECTRICAL SCHEDULES	X	X
E901	ELECTRICAL DETAILS	X	X

12 ELECTRICAL: 16

13 AUDIO VISUAL

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
TA001	AUDIO VISUAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES	X	X
TA201	FLOOR PLAN - GROUND LEVEL - AUDIO VISUAL	X	X
TA202	FLOOR PLAN - LEVEL 1 - AUDIO VISUAL	X	X
TA203	FLOOR PLAN - LEVEL 2 - AUDIO VISUAL	X	X
TA204	FLOOR PLAN - LEVEL 3 - AUDIO VISUAL	X	X
TA401	ENLARGED PLANS - AUDIO VISUAL	X	X
TA601	AUDIO VISUAL BLOCK DIAGRAMS	X	X
TA602	AUDIO VISUAL BLOCK DIAGRAMS	X	X
TA801	AUDIO VISUAL DISPLAY SCHEDULE	X	X
TA901	AUDIO VISUAL - DETAIL	X	X

13 AUDIO VISUAL: 10

14 TELECOMMUNICATIONS

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
TT001	TELECOMMUNICATIONS ABBREVIATIONS, SYMBOLS AND GENERAL NOTES	X	X
TT201	FLOOR PLAN - GROUND LEVEL - TELECOMMUNICATIONS	X	X
TT202	FLOOR PLAN - LEVEL 1 - TELECOMMUNICATIONS	X	X
TT203	FLOOR PLAN - LEVEL 2 - TELECOMMUNICATIONS	X	X
TT204	FLOOR PLAN - LEVEL 3 - TELECOMMUNICATIONS	X	X
TT401	ENLARGED PLANS - TELECOMMUNICATIONS	X	X
TT601	RISER DIAGRAM - TELECOMMUNICATIONS	X	X
TT602	GROUNDING BONDING RISER - TELECOMMUNICATIONS	X	X
TT901	TELECOMMUNICATIONS - DETAILS	X	X
TT902	TELECOMMUNICATIONS - DETAILS	X	X

14 TELECOMMUNICATIONS: 10

15 SECURITY

SHEET NUMBER	SHEET TITLE	12/11/2020 CONSTRUCTION DOCUMENTS	01/15/2020 ADDENDUM 1
TY001	SECURITY ABBREVIATIONS, SYMBOLS AND GENERAL NOTES	X	X
TY101	SITE PLAN - SECURITY	X	X
TY201	FLOOR PLAN - GROUND LEVEL - SECURITY	X	X
TY202	FLOOR PLAN - LEVEL 1 - SECURITY	X	X
TY203	FLOOR PLAN - LEVEL 2 - SECURITY	X	X
TY204	FLOOR PLAN - LEVEL 3 - SECURITY	X	X
TY205	FLOOR PLAN - ROOF SECURITY	X	X
TY401	ENLARGED PLANS - SECURITY	X	X
TY601	SYSTEM BLOCK DIAGRAM	X	X
TY801	SECURITY CAMERA SCHEDULE	X	X
TY901	SECURITY - DETAILS	X	X

15 SECURITY: 11

VOLUME 1: 325

TOTAL: 325

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

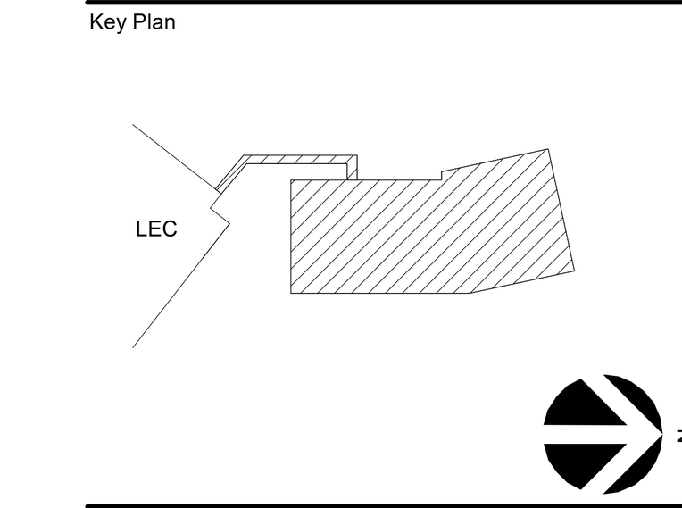
Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

DRAWING INDEX

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

G001

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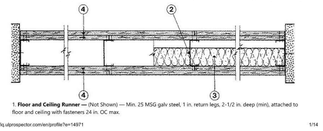


TYPE B: FULL HEIGHT: 0-, 1- & 2-HR RATED

BXUV.U411 - ANSI/UL263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U411

December 16, 2020

Nonbearing Wall Rating — 2 Hr.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

1. **Floor and Ceiling Runner —** (Not Shown) — Min. 25 MSG galv steel, 1 in. return legs, 2-1/2 in. deep (min), attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2A, channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

FUSION BUILDING PRODUCTS — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1B. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2B- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2-1/2 in. wide fabricated from min 0.015 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1D. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2D, channel shaped, min 2-1/2 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2E, channel shaped, min 2-1/2 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners 24 in. OC. max.
KIRII (HONG KONG) LTD — Type KIRII

1F. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1G. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2G, channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1H. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2J. Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
BAILEY METAL PRODUCTS LTD — Type PLATINUM PLUS

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2K, channel shaped, min 3-1/2 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1J. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2L. Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
OEG BUILDING MATERIALS — OEG Track

1K. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2M, channel shaped, min 2-1/2 in. deep, formed of min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners 24 in. OC. max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

1L. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2N. Channel shaped, min. 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D25

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D25

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D25

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D25

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D25

TELLING INDUSTRIES L L C — Type SUPREME D25

UNITED METAL PRODUCTS INC — Type SUPREME D25

1M. **Floor and Ceiling Runner —** (Not shown) - As an alternate to Item 1, For use with Items 2O and 4O - Min 25 MSG galv steel, 1-5/8 in. deep (min), attached to floor and ceiling with fasteners 24 in. OC. max.

2. **Steel Studs —** Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1G, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2B. **Steel Studs —** (As an alternate to Item 2, For use with Item 4D, 4H, and 4J) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2C. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1C, channel shaped studs, min 2-1/2 in. wide fabricated from min 0.015 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2D. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1D, channel shaped studs, min 2-1/2 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2E. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1E, channel shaped studs, min 2-1/2 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
KIRII (HONG KONG) LTD — Type KIRII

2F. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1G, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2G. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2H. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2I. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1A (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2J. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1H, channel shaped, min 3-5/8 in. wide, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
BAILEY METAL PRODUCTS LTD — Type PLATINUM PLUS

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1I, channel shaped studs, min 3-1/2 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1J, channel shaped studs, Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OEG BUILDING MATERIALS — OEG Stud

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1K, channel shaped studs, min 2-1/2 in. deep, formed of min. 25 MSG (0.018 in. min. bare metal thickness), spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

2N. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1L, channel shaped studs, min depth 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D25

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D25

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D25

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D25

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D25

TELLING INDUSTRIES L L C — Type SUPREME D25

UNITED METAL PRODUCTS INC — Type SUPREME D25

2O. **Framing Members — Steel Studs —** (As an alternate to Item 2) For use with Items 1M and 4O - channel shaped studs min 1-5/8 in. deep, formed of 25 MSG galv steel, max stud spacing 24 in. OC. Studs cut 3/8 in. to 3/4 in. less than assembly height.

3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
See **Batts and Blankets** (BZJZ) category for names of manufacturers
ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m³

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.
U S GREENFIBER L L C — INS735, INS745 and INS750LD for use with wet or dry application. INS765LD and INS773LD are to be used for dry application only.

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

4. **Gypsum Board* —** 5/8 in. thick, outer layer paper, glass mat or vinyl surfaced. (Laminated System) Gypsum board applied vertically in two layers. Inner layer attached to studs with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges, and 12 in. OC in the field and outer layer laminated to inner layer with joint compound, applied with a notched spreader producing continuous beads of compound about 3/8 in. in diameter, spaced not greater than 2 in. OC. Joints of laminated outer layer offset 12 in. from inner layer joints Outer layer gypsum board attached to floor and ceiling runner track with 1-5/8 in. long Type S steel screws spaced 12 in. OC.
Optional, (Direct Attached System), Inner layer attached to studs with 1 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges. Outer layer attached to the studs over the inner layer with 1-5/8 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges and 12 in. OC to the floor and ceiling runners. Joints of screw-attached outer layer offset from inner layer joints. Joints of outer layer may be taped or untaped.

Nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type X, Type X-1, Type C, or 5/8" Easi-Lite Type X

CGC INC — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSMR-C, FSL, Type SBWB, RSX.

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C, PG-3, PG-5, PG-9, PG-11, PG-C, PGS-WRS, PGI

PANEL REY S A — Types GREX, GRIX, PRX, RHX, MDX, ETX, PRC, PRC2, PRX2

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C or Type X

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX

4A. **Gypsum Board* —** (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4 with 1-1/4 in. long Type S screws for inner layer and 2-1/4 in. long Type S screws for outer layer.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4B. **Gypsum Board* —** (As an alternate to Items 4 and 4A) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Horizontal joints need not be backed by steel framing. Secured as described in Item 4 for the direct attached system. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CERTAINTEED GYPSUM INC — Type X, Type C, Type GlasRoc

CGC INC — Type SHX

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type X, Type C

UNITED STATES GYPSUM CO — Type SHX, FRX-G

USG MEXICO S A DE C V — Type SHX

4C. **Gypsum Board* —** (As an alternate to Items 4, 4A and 4B) — Two layers of 5/8 in. thick gypsum board applied horizontally or vertically. Inner layer attached to studs with No. 6 by 1 in. long bugle head screws spaced 24 in. OC along the top and bottom tracks starting 2 in. and then 12 in. from the vertical edge. Inner layer screws spaced 24 in. OC along the studs, starting 2 in. and then 12 in. from the top and bottom of the studs and starting 1-1/4 in. from the horizontal joints when installed horizontally. Outer layer attached to studs with 1-5/8 in. long Type S bugle head screws spaced 16 in. OC along the top and bottom tracks starting 1-3/4 in. from the vertical edge. Outer layer screws spaced 16 in. OC along the studs, starting 1-3/4 in. and then 8 in. from the top and bottom of the studs and starting 1-1/4 in. and then 8 in. from the horizontal joints when installed horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers staggered a min of 12 in. When outer layers are installed horizontally, vinyl or casein, dry or premixed joint compound shall be applied in two coats to joints and screw heads of outer layer. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

4D. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2B) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4E. **Gypsum Board* —** (As an alternate to Items 4 through 4D) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES

4F. **Gypsum Board* —** (As an alternate to Items 4 through 4E) —5/8 in. thick, applied vertically or horizontally as the outer layer to one side of the assembly. Horizontal joints need not be backed by steel framing. Secured as described in Item 4 for the direct attached system. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CERTAINTEED GYPSUM INC — Type SilentFX

4G. **Gypsum Board* —** As an alternate to Item 4 — Nom. 5/8 in. thick, inner layer attached vertically to studs with 1 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges. Outer layer attached to the studs horizontally over the inner layer with 1-5/8 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges and 12 in. OC to the floor and ceiling runners. Joints of outer layer must be taped. Nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard.
CABOT MANUFACTURING ULC — Type Blueglass Exterior Sheathing

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-11, PGS-WRS

4H. **Gypsum Board* —** (Not Shown) — (As an alternate to Items 4. For direct attachment only to steel studs Item 2B) — For Direct Application to Studs Only- For use as the base layer on one or both sides of the wall. Nom 5/8 in. thick lead backed

gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type S 12 steel screws spaced 8 in. OC at perimeter and 12 in OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Fasteners for face layer gypsum panels when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. To be used with Lead Batten Strips (see Item 5A) or Lead Discs (see Item 6A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4I. **Gypsum Board* —** (As an alternate to Item 4, not for use with Items 1C and 2C or 1L and 2N) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4.
CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4J. **Gypsum Board* —** (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2B) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4K. **Gypsum Board —** (As an alternate to Items 4 through 4J, not for use with Items 1C and 2C.) — Two layers of nominal 15 mm thick gypsum board applied vertically. Inner layer attached to studs with No. 3.5 x 1-3/8 in. long bugle head, self-drilling screws spaced 23-5/8 in. OC in the field and 15-3/4 in. OC in the perimeter, with the first screw 2 in. from the edge. Outer layer attached to the studs over the inner layer with No. 3.5 x 1-3/4 in. long bugle head, self-drilling screws spaced 11-13/16 in. OC in the field and 7-7/8 in. OC in the perimeter, with the first screw 3/4 in. from the edge. Outer layer screws staggered from inner layer screws. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layer staggered one stud cavity. Self-adhesive fiberglass mesh (9x9 mesh) tape, nom 2 in. wide, applied over all joints of outer layer panels. Dry or premixed joint compound applied in two coats to joints over the mesh tape and screw heads of outer layer.
GYPSEMNA CO LLC — Types MRFW, FW, TF

4L. **Gypsum Board* —** (As an alternate to Items 4 through 4K) — Two layers of 5/8 in. thick gypsum board applied vertically or horizontally. Inner layer attached to studs with #6 x 1 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Outer layer attached to studs with #6 x 1-5/8 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Vertical joints are centered over studs and staggered between layers and on opposite sides of the wall. Horizontal joints on the face layer are staggered 12 in. from the base layer. Horizontal joints need not to be backed by steel framing.
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD

4M. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4L) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

4N. **Gypsum Board* —** (As an alternate to Item 4 through 4M) — For direct application to studs only - Four layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. When applied horizontally, base layer secured to studs with 1 in. Type S screws spaced 24 in. OC. Second layer installed with joints offset 12 in. from base layer and secured with 1 in. Type S screws spaced 24 in. OC. Third layer installed with joints in line with base layer and secured with 1-1/2 in. Type S screws spaced 16 in. OC. Fourth layer installed with joints in line with second layer and secured with 1-5/8 in. Type S screws spaced 12 in. OC. For all layers, screws offset 4 in. from previous layer. When applied vertically, base layer secured with 1 in. Type S screws spaced 24 in. OC. Second layer secured with joints offset one stud cavity and secured with 1 in. Type S screws spaced 24 in. OC. Third layer installed with joints in line with base layer and secured with 1-1/2 in. Type S screws spaced 12 in. OC. Fourth layer secured with joints in line with second layer and secured with 1-5/8 in. Type S screws spaced 8 in. OC along vertical edges and 12 in. OC in the field. For all layers, screws offset 4 in. from previous layer.
NATIONAL GYPSUM CO — Type FSW

4O. **Gypsum Board* —** (As an alternate to Items 4 through 4N) — Two layers of 5/8 in. thick gypsum board applied vertically or horizontally. Inner layer attached to studs with 1 in. long Type S screws spaced 16 in. OC in the field and vertical edges and along top and bottom tracks. Outer layer attached to studs with 1-5/8 in. long Type S screws spaced 16 in. OC in the field and vertical edges and along the top and bottom tracks. Vertical joints are centered over studs and staggered between layers and on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers need not be staggered.
NATIONAL GYPSUM CO — Type FSLX

4P. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

5. **Lead Batten Strips —** (Not Shown, For Use With Item 4D) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4D) and optional at remaining stud locations. Required behind vertical joints.

5A. **Lead Batten Strips —** (Not Shown, for use with Item 4H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

6. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4D) — Used in lieu of or in addition to the lead batten strips (Item 5) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4D) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6A. **Lead Discs —** (Not Shown, for use with Item 4H) — Max 5/16 in. diam by max0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades

"B, C or D".

7. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

7A. **Mineral and Fiber Board —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
BLUE RIDGE FIBERBOARD INC — SoundStop

8. **Furring Channels —** (Optional, Not Shown — not for use with Items 4D, 4H, 4J, or 4N) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws.

8A. **Framing Members* —** (Optional on one or both sides, Not Shown — not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
  a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b.

  b. **Steel Framing Members* —** Used to attach furring channels (Item 8Aa) to studs. Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
  PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

8B. **Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
  a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

  b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
  STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

8C. **Steel Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
  a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 8Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

  b. **Steel Framing Members* —** Used to attach furring channels (Item 8Ca) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
  REGUPOL AMERICA — Type SonusClip

8D. **Steel Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
  a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

  b. **Steel Framing Members* —** Used to attach resilient channels (Item 8Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
  KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

8E. **Steel Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
  a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

  b. **Steel Framing Members* —** Used to attach furring channels (Item 8Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 10 x 2 in. screw through the center hole. Furring channels are friction fit into clips.
  MASON INDUSTRIES INC — Type CWC-50

8F **Steel Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
  a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

  b **Steel Framing Members* —** Used to attach furring channels (Item 8Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

9. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.

CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-12-16

TYPE N: SHAFTWALL: 2-HR RATED

BXUV.U438 - ANSI/UL263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U438

October 13, 2020

Nonbearing Wall Rating — 2 HR.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

1. **Floor and Ceiling Runners —** "J" -shaped runner, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 24 MSG galv steel (min 20 MSG when Item 4B is used). Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.

2. **Steel Studs —** "C-H" -shaped studs, 2-1/2 in. wide by 1-1/2 in. deep, fabricated from 25 MSG galv steel (min 20 MSG when Item 4B, 4D, or 4E is used). Cut to lengths 3/8 to 1/2 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4B, 4D, 4E is used).

2A. **Steel Studs —** (Not shown)-"E" -shaped studs installed in place of "C-H" -shaped studs (Item 2) to secure the closure liner panels at the ends of walls. Fabricated from 25 MSG galv steel (min 20 MSG when Item 4B, 4D, or 4E is used), 2-1/2 in. wide, with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 in. less than floor to ceiling height. Sill and lintel of opening formed with "J" -shaped runners (Item 1) secured to "E" -shaped studs with angle clips and steel screws.

3. **Gypsum Board* —** 1 in. thick gypsum wallboard liner panels, supplied in nom 24 in. or 600 mm (for metric spacing) widths. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" -shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" -runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC.
CGC INC — Type SLX.

UNITED STATES GYPSUM CO — Type SLX.

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX.

4. **Gypsum Board* —** 1/2 in. thick, 4 ft. or 1200 mm (for metric spacing) wide wallboard applied vertically in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC along the edges and in the field of the boards. Outer or face layer attached to studs and "J" -runners with 1-5/8 in. long Type S steel screws spaced 12 in. along the edges and in the field of the boards, staggered from screws in inner layer. Joints between inner and outer layers staggered. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound.

As an alternate method, inner wallboard layer applied vertically, outer wallboard layer applied horizontally. Inner layer attached to studs with 1 in. Type S steel screws spaced 24 in. OC along vertical edges and in the field. Outer layer attached to the studs and "J" runners over the inner layer with 1-5/8 in. long Type S steel screws spaced 12 in. OC in the field, along the vertical edges and to the floor and ceiling runners. Outer layer secured to inner layer wallboard with 1-1/2 in. long Type G steel screws located midway between studs and 1 in. from the horizontal joint.

AMERICAN GYPSUM CO — Types AG-C .

CABOT MANUFACTURING ULC — Type C

CERTAINTEED GYPSUM INC — Type C

CGC INC — Type C, IP-X2, or WRC.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C.

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C, FSMR-C.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C.

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Type C, IP-X2 or WRC.

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C, IP-X2 or WRC.

4A. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S or S-12 steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type AR, IP-AR, IP-X1, SCX, ULIX, or WRX.

UNITED STATES GYPSUM CO — Type AR, FRX-G, IP-AR, IP-X1, SCX, ULX or WRX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type AR, IP-AR, IP-X1, SCX, ULX, or WRX.

4B. **Gypsum Board* —** (Not Shown) - May be used in lieu of Items 4 or 4A for the base layer - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips (Item 6) required behind vertical joints.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4C. **Gypsum Board* —** (As an alternate to Item 4, 4A, 4B) — 5/8 in. thick. Two layers installed as described in Item 4.
NATIONAL GYPSUM CO — Type FSMR-C.

4D. **Gypsum Board* —** (Not Shown) - May be used in lieu of Items 4 for the base layer - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints. To be used with Lead Batten Strips (see Item 6B) or Lead Discs (see Item 6C).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4E. **Gypsum Board* —** (Not Shown) - May be used in lieu of Items 4 for the base layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4F. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S or S-12 steel screws spaced 8 in. OC when installed vertically and staggered min. 8 in. from base layer screws or 8 in. OC when installed horizontally and staggered min. 6 in. from base layer screws. Horizontal joints between inner and outer layers need not to be staggered. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type ULIX.

UNITED STATES GYPSUM CO — Type ULIX.

5. **Batts and Blankets* —** (Optional) — (Not shown) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt material bearing the UL Classification Marking as to Fire Resistance.

5A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.
U S GREENFIBER L L C — INS735, INS745, INS750LD for use with wet or dry application. INS765LD and INS773LD are to be used for dry application only.

5B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

5D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the

outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

6. **Lead Batten Strips —** For Use with Item 4B - (Not Shown) - Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6A. **Lead Discs or Tabs —** (Not Shown) - Used in lieu of or in addition to the lead batten strips (Item 6) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6B. **Lead Batten Strips —** (Not Shown, for use with Item 4D) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

6C. **Lead Discs —** (Not Shown, for use with Item 4D) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-10-13

TYPE 1MA & 2MA: FULL HEIGHT CMU PARTN

BXUV.U906 - ANSI/UL263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U906

November 09, 2020

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

1. **Concrete Blocks* —** Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

4A. **Building Units* —** As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply"

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-11-09

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

Key Plan

Professional Seals

CURT PARDE
17962
01/15/2021

No.	Description	Date
1	ADDENDEUM 1	01-15-2020

Project No 20.090[illegible]3.00

Sheet Title
UL ASSEMBLIES

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
G007

1

2021-01-15 9:02:02 AM

Code Analysis Form

This form is meant for internal use only; the in-depth content is for design team members and requires input for structural and MEP components as well, to be done at the beginning of each project. This analysis form is not all inclusive and covers the major building components only. References given are based on **IBC 2015** and will vary per jurisdiction. Cross-reference to the LSC 2015 are listed as well; references are listed as a guide, and need to be updated to fit adopted code versions. Code summation to be inserted with the drawings will vary per AHJ. Basic format is shown under separate cover. Each jurisdiction has a set of amendments and ordinances that have to be considered as well. Always review the Life Safety Code 101 regardless if adopted by the AHJ or not for conflicting elements to protect overall interests of the project. This form addresses general components, intended to be flexible to add project specific requirements)

Project name: Kaufman County Justice Center

Project Location: 1902 E Hwy 175 Kaufman, TX 75142

Project No. 20.09003.00
Analysis by: David Munoz
Date: 01\14\2021

Governing Codes:

Code	Edition
International Building Code	2015
Int. Building Code NCTCOG Amendments Ord O-28-19	2015
International Plumbing Code	2015
Int. Plumbing Code NCTCOG Amendments Ord O-28-19	2015
International Mechanical Code	2015
Int. Mechanical Code NCTCOG Amendments Ord O-28-19	2015
National Electrical Code	2014
Nat. Electric Code NCTCOG Amendments Ord O-28-19	2015
International Existing Building Code	2015
Int. Existing Building Code NCTCOG Amendments Ord O-28-19	2015
International Energy Conservation Code	2015
Int. Energy Conservation Code NCTCOG Amendments Ord O-28-19	2015
International Fuel Gas Code	2015
Int. Fuel Gas Code NCTCOG Amendments Ord O-28-19	2015
International Fire Code	2015
Int. Fire Code NCTCOG Amendments Ord O-28-19	2015

Other codes or Standards:

Texas Administrative Code, Tile 37, Part 9 Texas Commission on Jail Standards
Elimination of Architectural Barriers Texas Government Code, Chapter 469,2012 Texas Accessibility Standards (TAS)

Height Limitations:

Item	Section	Notes
Constr. Type	Table 601	I-B
Stories / height	Table 504.4	12 / 180 ft
Allowable increases	**IBC 506**	Applicable but not necessary

Unlimited Area Buildings:
(IBC 507)(This section has to do with large complexes such as warehouses, manufacturer plants, malls, etc.)

Item	Section	Notes
Applicable but not necessary		

Miscellaneous Notes:

Mezzanine / Equipment Platform Construction Requirements:
(IBC section 505)

Item	Section	Notes
Not applicable		

Types of Construction:
(IBC Chapter 6)

Building Element	Construction type	Fire Rating	Section
Structural frame primary	I-B	2hrs (note a)	Table 601
Columns –Girders –trusses	I-B	2hrs	Table 601
Roof assembly / beams	I-B	1hr	Table 601
Floor beams	I-B	2hrs	Table 601
Ext. bearing walls	I-B	2hrs	Table 601
Int. bearing walls	I-B	2hrs (note a)	Table 601
Ext. non-bearing walls	I-B	0hrs (table 602)	Table 602
Int. non-bearing walls (note d)	I-B	0hrs	Table 602

Miscellaneous Notes:

a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.
d. Not less than the fire-resistance rating required by other sections of this code.

Fire Resistance of Exterior Walls:
(IBC Table 602)

Review Table 602, find where your building line is relative to the property line each side of the building from less than 5'-0" to over 30'-0", and depending on construction type and occupancy type, determine required fire rating. Review Table 705.8 will determine the maximum size of openings allowed given the required wall rating.

Elevation	Fire Rating	% of allowable openings
X>=30	0hrs	No Limit

Material Classifications:
(IBC Table 803.9)

Occupancy Group	Sprinklered		
	Vertical Exits and Passageways	Exit Access corridors and exit ways	Rooms and enclosed spaces
Assembly	B	B	C
Business	B	C	C

Fire Protection Systems:
(IBC Chapter 9)

Miscellaneous Notes:
The courthouse will be fully equipped with an automatic sprinkler system according to IBC and NFPA.

903.2 Where required. Approved automatic sprinkler systems in new buildings and structures shall be provided in the locations described in Sections 903.2.1 through 903.2.12. Automatic Sprinklers shall not be installed in elevator machine rooms, elevator machine spaces, and elevator hoistways, other than pits where such sprinklers would not necessitate shunt trip requirements under any circumstances. Storage shall not be allowed within the elevator machine room. Signage shall be provided at the entry doors to the elevator machine room indicating "ELEVATOR MACHINERY – NO STORAGE ALLOWED."

Automatic Sprinkler Systems: (IBC section 903)

Occupancy Group	Required	Not Required
All	Yes	

Standpipe Systems: (IBC 905)'

Required Locations	Standpipe Type (Classes)	Occupancy
Buildings over 30'-0" high	Class III	All
Exception 1	Class 1 are allowed	
Hose required?	No	
Maximum Length	Not applicable	
Maximum Spray	Not applicable	
Location	As required for Class I locations	

Fire Extinguisher Requirements: (IBC Section 906; table 903.2.11.6; table 906.3.1; 906.3.2)

Occupancy	Hazard Classification	Extinguisher types	Areas / Distances
Business	2-A	Class A	
Assembly	2-A	Class A	
Maximum Area per type	3,000sf		
Maximum Travel Distance	75 ft		
Maximum mounting height	5 ft <40lbs 3.5 ft >40lbs		
Minimum Mounting height	4in		
Special Occupancy Requirements	Not applicable		

Egress Corridors: (IBC Section 1018)

Minimum width	Not less than 44in	
Minimum Height	Not less than 7ft 6in	
Dead End Corridors:		
Business	50 ft	
Assembly	20 ft	
Common Path of Travel:		
Business	100 ft	
Assembly	75 ft	
Projections into the corridor	4 ½" in at or below handrail height	
Areas of Refuge Required	No	
At Elevator lobbies	No	
At Stairwells	No	
Egress path elevation changes	Zero	

Construction Ratings – Walls and Openings:

Wall Type	Wall Rating	Wall Opening Rating
Corridor walls	0	
Vertical Exits	2 hrs	1 ½ hr section 716
Enclosures under stairs	Not applicable	
Vertical chases	2 hrs	1 ½ hr section 716
Elevator enclosures	2 hrs	1 ½ hr section 716
Other fire partitions	1 hr	45 min section 716
Other fire partitions	1/2hr	20 min section 716

Horizontal Exits: (IBC section 1026)(Key component two hour fire barrier must extend exterior wall to exterior wall, and return along the exterior face 10'-0" either direction)

Wall Ratings	Standpipe	Notes
Not applicable		

Stairways: (IBC Section 1007.3 / 1009)

General	IBC	Notes
Minimum width	44 in	
Minimum tread rise	4 in	
Maximum tread rise	7 in	
Minimum tread run	11 in	
Rail Projection	4 1/2 in	
Maximum variation	Not to exceed one unit vertical in 12 units horizontal	
Riser Slope	Not more than 30 degrees	
Open risers	Not applicable	
Nosing Projection	Not less than 1/16 but not more than 9/16"	
Stair markings	Not less than 1" but not more than 2"	
Smokeproof Enclosure required	2hrs	
Projection of Exterior stair doors	Not to reduce the landing to less than one-half its required width	
Minimum head clearance	80 in	
Stair to roof required	Stair 2	Per section 1011.12
Stairs to Unoccupied Roofs		
Maximum Riser	7 in	Applicable but not provided
Minimum Tread depth		
Maximum Tread Depth	11 in	
Minimum tread width		
Landings:		
Minimum width	Not less than width of stair	
Door projection	Not to reduce the landing to less than one-half its required width	
Door arc		See vertical circulation plans
Maximum reduction in width		
Landings at straight run stairs	48 in	Not applicable
Maximum distance between landings	12 ft	
Railings:		
Railing spacing	4in	
Height of rails	34 in – 38in	36 in provided
Rail Clearance from wall	1 1/2 in	
Rail Diameter	1 1/4 in	
Rail extensions	12 in	
Guard rail height	42 in	
Stairs to Roofs:		
Required?	No	
Roof hatch required?	No	
Roof Hatch size (minimum)		Not applicable
Exit Discharge: (IBC section 1027)		
Exit though lobby (max. %)	Not more than 50% of the number and minimum width capacity of interior exit stairways	Provide less than 50%
Locations	Central stair	Main corridor at level 1

Exit Passageways: (IBC section 1023)

Width		Not applicable
Fire Rating		

Energy Requirements:

Building envelope criteria / requirements	
Item	**Criteria / requirement**
Climate Zone	3A
Insulation entirely above the roof deck	R-25ci / **U-0.039**
Metal framed walls above grade	R-13 + R-7.5ci / **U-0.064**
Below grade wall	Not required / **C-1.140**
Joist and framing	R-30 / **U-0.033**
Unheated Slab-on-grade floors	Not required / **F-0.73**
Heated Slab-on-grade floors	R-10 for 24` below / **F-0.70**
Non swinging opaque doors	R-4.75
Swinging doors	**U-0.61**

Exterior Walls: (IBC chapter 14; Material uses and minimum thicknesses)

Material	Requirement	Notes
Brick		Walls - Upper level
Stone		Walls - Level 1
Insulated glass		Walls
Fixed fenestration	U-0.46	
Entrance doors	U-0.77	
SHGC	0.40	
		Projection factor 0-0.10 = 1.0
Metal panels		Facias
Exterior sheathing		Walls
Polyiso Insulation		Wall / Roof

Roof Assemblies and Rooftop Structures: (IBC Chapter 15)

Roof Drainage and Materials	Notes
Weather protection (material, scuppers, etc.)	Steel scuppers and roof drain pipes
Performance requirements (roof coverings, wind resistance)	FM 4474, UL 580 or UL 1897
Minimum scupper dimensions	Ref plumbing plans
Minimum roof slope	1/4:12 or 2%
Fire Classification (Materials)	Class B minimum
Roof covering requirements (attachments /flashings)	Comply with ASTM D 4434, ASTM D 6754, ASTM D 6878
Roof insulations	Polyisocyanurate boards ASTM C1289, Type II, Class 2, Grade 2,
Solar Photovoltaic Panels / modules	Not applicable
Rooftop Structures:	
Penthouses	
Height above roof deck	Not applicable
Area Limitations	Not applicable
Cooling Towers	Not applicable
Photovoltaic structure	Not applicable
Maximum height of elevators overruns/ tanks	Not applicable

Structural Design: (IBC Chapter 16) (architectural components)

Item	Live	Snow or Wind	Dead + Live
	Reference Structural documents	Reference Structural documents	Reference Structural documents

Wind Loading: (IBC section 1609) (Basic loading only coordinate with structural)

	Reference Structural documents

Earthquake Loads: (IBC section 1613) (Basic only, coordinate with structural)

Seismic design category	Notes
	Not applicable

Glass and Glazing: (IBC Chapter 24)

Skylights (IBC section 2405)	Notes
Material requirements	Not applicable
Height above roof	Not applicable
Protection	Not applicable
Glazing(IBC section 2406)	
Hazardous locations requiring safety glazing	Not applicable
Glass handrails and Guards(IBC section 2407)	
Materials	Not applicable
Support	Not applicable

Plumbing Systems: (IBC Chapter 29; table 2902.1)

Elevators and Conveying Systems: (IBC Chapter 30)

Item	Notes
Hoistway enclosure	2hrs
Venting required	Not applicable
Vent size	Not applicable
Machine room	Yes.
Signage on door	ELEVATOR MACHINERY – NO STORAGE ALLOWED.
Fire service access elevators	Not applicable
Lobby enclosure	Not applicable
Lobby size minimum	Not applicable
Cab sizing	Reference enlarged plans
Glass in elevator hoistway	Not applicable
Glass in elevator cabs	Not applicable

(Machine room for elevator only for elevator equipment or components that service the machine room; no through duct or electrical or roof drains)

Special Construction: (IBC Chapter 31)

Item	Notes
Temporary structure	Not applicable
Pedestrian walkway and tunnels	Section 3104.5.5 The pedestrian walkway is equipped throughout with an automatic sprinkler system installed
Awnings and canopies	Not applicable
Marquees	Not applicable

Encroachments into the Public Way: (IBC Chapters 32)

Item	Notes
Door projection beyond property line	Not applicable
Encroachments 8'-0" or more above grade	Not applicable
Encroachments 15'-0" or more above grade	Not applicable

Miscellaneous Notes:

Window Washing Provisions: (To be reviewed specific to the project; OSHA and ANSI requirement apply and will vary; owner requirements will vary; consultant input)

Item	Notes
Davits	-
Tiebacks	-

Zoning and Parking Requirements: (Varies per jurisdiction, usually dictated by amendments or ordinances)

Item	Notes
281 parking spaces	Public
13 parking spaces	ADA public
65 parking spaces	Staff
3 parking spaces	ADA staff
12 parking spaces	Elected official
103 parking spaces	Law enforcement

Use and Occupancy Classification:

Main Occupancy type (IBC Chapter 3; LSC Chapter 6)

Business	77,064 SF
Assembly	3,133 SF

Occupancy Separation:

(IBC Table 508.4; LSC 6.1.14.4.1)(Review separated versus non-separated occupancies see IBC section 508, and related references)

Occupancy	To	Occupancy	Rating
None			
Non separated occupancy	**to**	**Occupancy**	**No rating required**
Business		Assembly	X

(Example of non-separated occupancy Assembly and Business; as long as the most stringent egress requirements are met, in this case Assembly)

Incidental Use Areas:
(IBC Table 509)

Applicable areas	Rating Required
Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower	Zero hour; provided automatic sprinkler system
I-3	1hr Fire-resistance rated fire barrier

Level	SF	%
Level 3	**17,065**	**100**
Incidental Use I-3	321.00	1.88
Level 2	**30,182**	**100**
Incidental Use I-3	302.00	1.00
Level 1	**31,521**	**100**
Incidental Use I-3	303.00	0.92
Level 0	**20,097**	**100**
Incidental Use I-3	1,237	2.41

Hazardous areas:
(Areas concerning healthcare is identified in other sections as well. (IBC 308; LSC 18.3.2.1) (Group H requirements if any to be including here, IBC section 307)

Room	Classification (If applicable)	Rating
Not applicable		

Special Requirements Based on Use and Occupancy:
High Rise Buildings under 420 feet in height–(IBC 403 / 907.2.13; LSC 11.8)(Key Item examples are listed, fire command center is very involved)

Item	Section	Notes
Not applicable		Building height from grade to top occupied space is 50ft Max = 55ft per ordinance

Opening Fire Protection Assemblies, Rating and Markings:
(IBC Table 716.5)

Minimum fire ratings for door vision lights, labeling, and materials are listed in this table, for fire partitions, fire barriers and fire walls. Pay attention to glazing material and sizes, maximum frame sizes and door sizes. Review NFPA 80 for further definitions.

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (hours)	MINIMUM FIRE DOOR AND FIRE SHUTTER ASSEMBLY RATING (hours)	DOOR VISION PANEL SIZE b	FIRE-RATED GLAZING MARKING DOOR VISION PANEL d	MINIMUM SIDELIGHT/ TRANSOM ASSEMBLY RATING (hours)		FIRE-RATED GLAZING MARKING SIDELIGHT/TRANSOM PANEL	
					Fire protection	Fire resistance	Fire protection	Fire resistance
Fire walls and fire barriers having a required fire-resistance rating greater than 1 hour	3	3*	See Note b	D-H-W-180	Not Permitted	3	Not Permitted	W-180
Enclosures for shafts, interior exit stairways and interior exit ramps.	2	1 1/2	100 sq. in	≤100 sq. in. = D-H-90 >100 sq. in.= D-H-T-W-90	Not Permitted	2	Not Permitted	W-120
Other fire partitions	1 0.5	3/4 1/3	Maximum size tested Maximum size tested	D-H-45 D-H-20	3/4 1/3		D-H-45 D-H-20	
Fire barriers having a required fire-resistance rating of 1 hour. Enclosures for shafts, exit access stairways, exit access ramps, interior exit stairways and interior exit ramps; and exit passageway walls	1	1	100 sq in	≤ 100 sq. in. = D-H-60 >100 sq. in.= D-H-T-W-60	Not Permitted	1	Not Permitted	W-60
Smoke Barrier	1	1/3	Maximum size tested	D-20	3/4		D-H-OH-45	

a. Two doors, each with a fire protection rating of 11/2 hours, installed on opposite sides of the same opening in a fire wall, shall be deemed equivalent in fire protection rating to one 3-hour fire door.

Fire Alarm: (IBC 907)

Occupancy	Type Required	Locations / Exceptions
Business (B)	Manual fire alarm is not required where the building is equipped throughout with an automatic sprinkler system and the occupant notification appliances will activate throughout the notification zones	
Assembly	A manual fire alarm system that activates the occupant notification system in accordance with Section 907.5 shall be installed in Group A occupancies having an occupant load of 300 or more persons or more than 100 persons above or below the lowest level of exit discharge. Group A occupancies not separated from one another in accordance with Section 707.3. 10 of the International Building Code shall be considered as a single occupancy for the purposes of applying this section. Activation of fire alarm notification appliances shall: 1. Cause illumination of the means of egress with light of not less than 1 foot-candle (11 lux) at the walking surface level, and 2. Stop any conflicting or confusing sounds and visual distractions.	

Means of Egress: (IBC Chapter 10)

Minimum Number of Exits

Space Use	Two exits required when	Three Exits required when	Four Exits required when	Occupant load factor
Business areas	Yes	No	No	>49
Assembly areas (IBC section 1028)	Yes	No	No	>49
Electrical service rooms	2 on Main Elec Rm	No	No	

Exit Width Factor; (Width required inches, occupant load factor for IBC 2015 is .2 for stairs and .15 for doors; other code required .3 and .2 respectively)

Occupancy	With Sprinklers	Without sprinklers
All occupancies	0.20 for stairs 0.15 for doors	Not applicable

Distance to Exits:

Occupancy	With Sprinklers	Without Sprinklers
Business	300ft	Not applicable
Assembly	250ft	

Egress Illumination: (IBC section 1024)

Occupancy	With Sprinklers	Without Sprinklers
Emergency Lighting Illumination Level	Yes >1ft candle (11lux) at the walking surface	Not applicable
Emergency Power	Yes > 90minutes duration	

Fire Exit Doors: (IBC Section 1008)

Item		Notes
Minimum Height	80in	
Minimum clear width	32in	
Minimum width	36in	
Maximum width	48in (pair doors)	
Revolving doors	Aggregate width not less 36in	Comply with section 1010.1.4.1
Power operated doors		Comply with section 1010.1.4.2
Door swing = egress direction	Yes	
Landings		
Minimum width	= stair width	
Minimum Length	44in in the direction of travel	

Miscellaneous Notes:

Ramps: (IBC section 1010)

Item	IBC	NFPA
Maximum slope for exits	8% (1:12)	
Minimum slope with rails	Not applicable	
Maximum rise	30 in	
Minimum width	36 in between handrails	
Minimum head height	80 in	
Maximum cross slope	2%	
Minimum landing length	60 in	
Change in direction	60 in by 60 in	
Edge protection	Not applicable	
Guard rails	Not applicable	

Accessibility:
Reference accessibility requirement sheets

Interior Environment: (IBC chapter 12)

Item	IBC	NFPA
Minimum Ceiling heights	7 ft 6 in	
Sound Transmission Requirements		
Public to service areas	Not less than 50 Not less than 45 if field tested	

MEP Considerations :(Architectural components)

Item	Requirement	Notes
Ventilation	Yes	By the International Mechanical Code
Lighting	Yes	Natural - Not less than 8X of the room served Artificial – 10 footcandle or 107 lux at 30 in above floor
Sound Transmission	Public to service areas	Not less than 50 Not less than 45 if field tested
Space dimensions	Habitable rooms	Not less than 7 ft wide not less than 70 sq ft
Toilet and bathroom requirements	Yes	Per section 1210
Access to unoccupied spaces	Yes	Access panel as indicated

Convenience Openings / Atriums:(IBC 907.2.14)
(IBC 404, LSC various sections depending on occupancy) (IBC doesn't recognize convenience openings per se; the LSC does, basically it's an opening to two floors; atrium open to three floors or more; atrium spaces will require a consultant to do fire modeling)

Item	Section	Notes
Not applicable		

Underground Buildings or Floors: (IBC 907.2.18)
(IBC 405; LSC various section depending on occupancy)(Applies to any building or floor 30'-0" or more below grade, dedicated engineered smoke evacuation system required)

Item	Section	Notes
Not applicable		Lower level is at grade 14` below main level

Parking Garages:
(IBC 406)
General Requirements

Item	Section	Notes
Not applicable		Parking lot

Open parking Garage:
(IBC 406.5)

Item	Section	Notes
Not applicable		Parking lot

Closed Parking Garage:
(IBC 406.6)

Item	Section	Notes
Not applicable		Parking lot

General Building Heights and Floors Areas:
(IBC table 503 / Chapter 5)(Requirement vary per occupancy type; add duplicate tables to cover your project requirements if needed; most stringent rules)

Fire Sprinkler Requirements:

Item	Section	Notes
Constr. Type	Table 601	I-B
Primary Occupancy type	303 / 304	Business / Assembly
Fire Sprinkler Required		Yes
Max. area for non-sprinklered bldgs.		Not applicable

Allowable Floor Areas:

Item	Section	Notes
Constr. type	Table 601	I-B
Primary occupancy type	304/303	Business / Assembly
Floor Area -sprinklered	Table 506.2	Unlimited
Floor Area non-sprinklered		Not applicable

Fire Window Assembly Fire Protection Ratings:
IBC Table 716.6)

Minimum fire ratings for window lights interior and exterior are listed.

TYPE OF WALL ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (hours)	MINIMUM FIRE WINDOW ASSEMBLY RATING (hours)	FIRE-RATED GLAZING MARKING
Interior walls			Conditions are not applicable for this project.

Ducts and Air Transfer Openings:
(IBC section 717)

Mostly related to mechanical requirements, architectural element references are included affecting fire walls, partition, barriers, and corridors. Horizontal assemblies, floor and ceiling assemblies are addressed as well.

Fire damper rating
(IBC Table 717.3.2.1)

TYPE OF PENETRATION	MINIMUM DAMPER RATING (hours)
Less than 3-hour fire-resistance-rated assemblies	1.5

Item	Section	Notes
Fire walls	717.5.1	
Shaft. enclosures	717.5.3	
Fire partitions	717.5.4	

Concealed Spaces:
(IBC section 718)

This section covers concealed fire spaces in partitions, ceiling and floor areas; penetrations; usually not a problem in fully sprinklered buildings, but should be reviewed. Floor penetrations with F and T rating stated in UL Designs are required most jurisdictions.

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

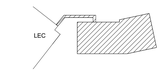
Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

CODE REVIEW

Original is 48 x 36. Do not scale contents of this drawing

Sheet Number

G008

2021-01-15 9:02:04 AM

000 - SCHEDULE OF OCCUPANCY REQUIREMENTS - LEVEL 000

AREA			OCCUPANTS		EGRESS CALCULATIONS		PLUMBING CALCULATIONS										COMMENTS
							WATER CLOSETS				LAVATORIES				DRINKING FOUNTAINS		
OCC. CLASS.	SPACE FUNCTION (IBC TABLE 1004.1.1)	AREA	OCC. FACTOR	OCC. LOAD	REQ. EXIT WIDTH/OCC. OTHER	TOTAL REQ. OTHER EXIT WIDTH	MEN	Provided	WOM	Provided	MEN	Provided	WOM	Provided	DF	Provided	
LEVEL 000																	
B	ACCESSORY - SUPPORT	2,960 SF	300 SF	12	0.15	1.85"	0.16	0	0.16	0	0.11	0	0.11	0	0.12	0	
B	BUSINESS	10,804 SF	100 SF	112	0.15	16.79"	1.41	4	1.41	4	0.99	4	0.99	4	1.12	6	OF WITH BOTTLE REFILL
I-3-1	INCIDENTAL USE - I-3	3,798 SF	100 SF	51	0.15	7.65"	2.13	3	3.19	3	2.13	3	3.19	3	0.51	5	
S-1	ACCESSORY - STORAGE	4,094 SF	300 SF	15	0.15	2.19"	0.07	0	0.07	0	0.07	0	0.07	0	0.01	0	
Grand total: 19		21,655 SF		190		28.48"	3.77	7	4.83	7	3.30	7	4.36	7	1.77	11	

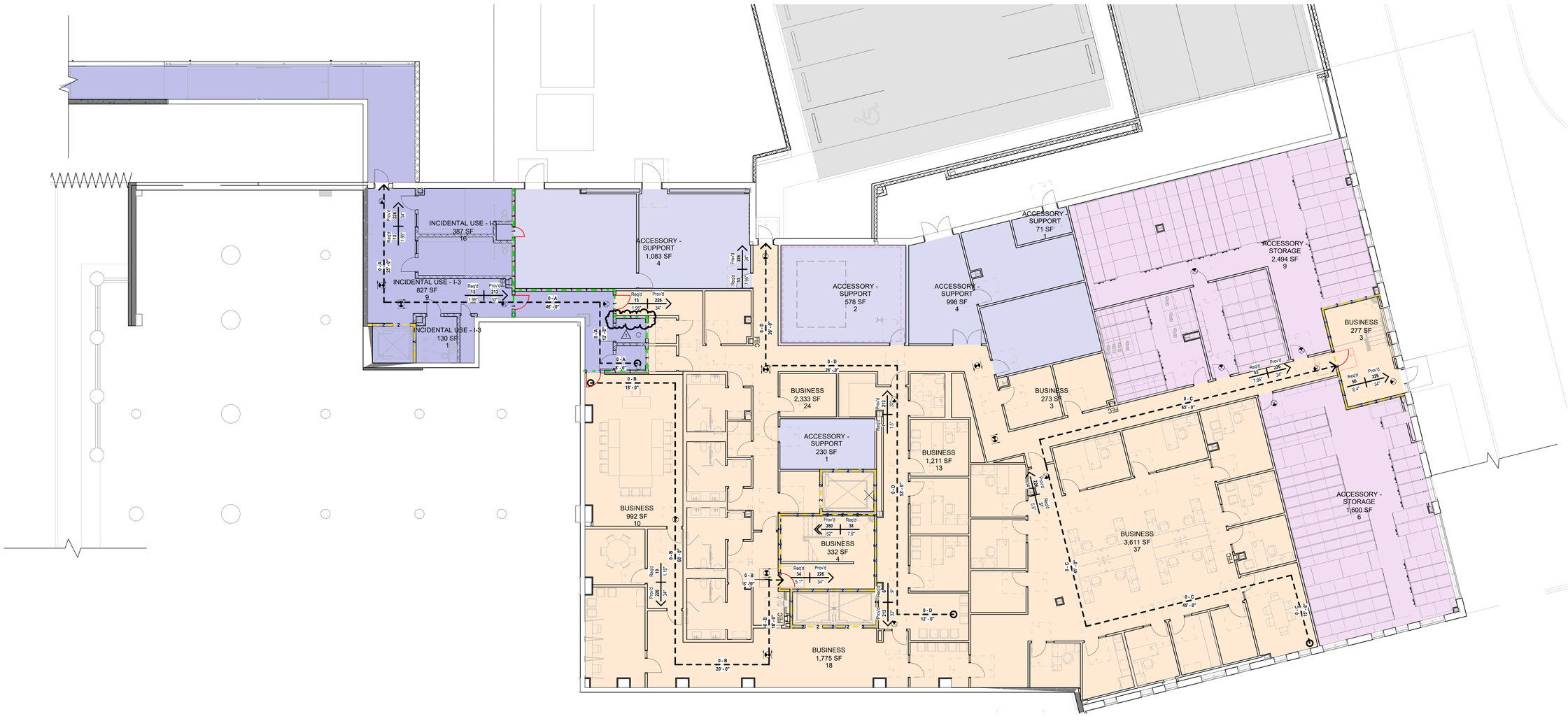
LIFE SAFETY LEGEND

- 3 HR FIRE RATING W/ EQUIVALENT RATED OPENINGS
- 2 HR FIRE RATING W/ 90 MINUTE RATED OPENINGS
- 1 HR FIRE RATING W/ RATED OPENINGS AS SCHEDULED
- PATH OF TRAVEL DISTANCE
- A1 / 100' - 0" — EXIT PATH ID / TRAVEL DISTANCE
- Req'd / Prov'd X / X" — # OF OCC EXITING / DOOR WIDTH
- Req'd / Prov'd X / X" — # OF OCC EXITING / STAIR WIDTH
- FEC — FIRE EXTINGUISHER
- EXIT SIGN
- FIRE RATED DOOR
- ACCESSIBLE ENTRANCE
- SMOKE CURTAIN — SMOKE CURTAIN -REF 11 /A961

MARKING AND IDENTIFICATION NOTE:
WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOEK PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:
1. BE LOCATED WITHIN 15 FEET (5472 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG WITH THE WALL OR PARTITION.
2. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING: "FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS"

000 - TRAVEL DISTANCE PATH - LEVEL 000

PATH ID	TOTAL TRAVEL DISTANCE	COMMENTS
0 - A	92' - 0"	LESS THAN 200FT (INSTITUTIONAL)
0 - B	119' - 0"	LESS THAN 300FT (BUSINESS)
0 - C	160' - 0"	LESS THAN 300FT (BUSINESS)
0 - D	119' - 0"	LESS THAN 300FT (BUSINESS)
0 - E	180' - 0"	LESS THAN 300FT (BUSINESS)
0 - F	155' - 0"	LESS THAN 200FT (INSTITUTIONAL)



1 LIFE SAFETY PLAN - GROUND LEVEL
1/8" = 1'-0"

2021-01-15 9:02:15 AM

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

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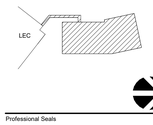
Key Plan



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01/15/2021

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	50% CONSTRUCTION DOCUMENTS	10-12-2020
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1	ADDENDELIM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

LIFE SAFETY PLAN - GROUND LEVEL

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

G010-A

000 - SCHEDULE OF OCCUPANCY REQUIREMENTS - LEVEL 000

AREA			OCCUPANTS		EGRESS CALCULATIONS		PLUMBING CALCULATIONS										COMMENTS
							WATER CLOSETS				LAVATORIES				DRINKING FOUNTAINS		
OCC. CLASS.	SPACE FUNCTION (IBC TABLE 1004.1.1)	AREA	OCC. FACTOR	OCC. LOAD	REQ. EXIT WIDTH/OCC. OTHER	TOTAL REQ. OTHER EXIT WIDTH	MEN	Provided	WOM	Provided	MEN	Provided	WOM	Provided	DF	Provided	
LEVEL 000																	
B	ACCESSORY - SUPPORT	2,960 SF	300 SF	12	0.15	1.85"	0.16	0	0.16	0	0.11	0	0.11	0	0.12	0	
B	BUSINESS	10,804 SF	100 SF	112	0.15	16.79"	1.41	4	1.41	4	0.99	4	0.99	4	1.12	6	DF WITH BOTTLE REFILL
I-3-1	INCIDENTAL USE - I-3	3,798 SF	100 SF	51	0.15	7.65"	2.13	3	3.19	3	2.13	3	3.19	3	0.51	5	
S-1	ACCESSORY - STORAGE	4,094 SF	300 SF	15	0.15	2.19"	0.07	0	0.07	0	0.07	0	0.07	0	0.01	0	
Grand total: 19		21,655 SF		190		28.48"	3.77	7	4.83	7	3.30	7	4.36	7	1.77	11	

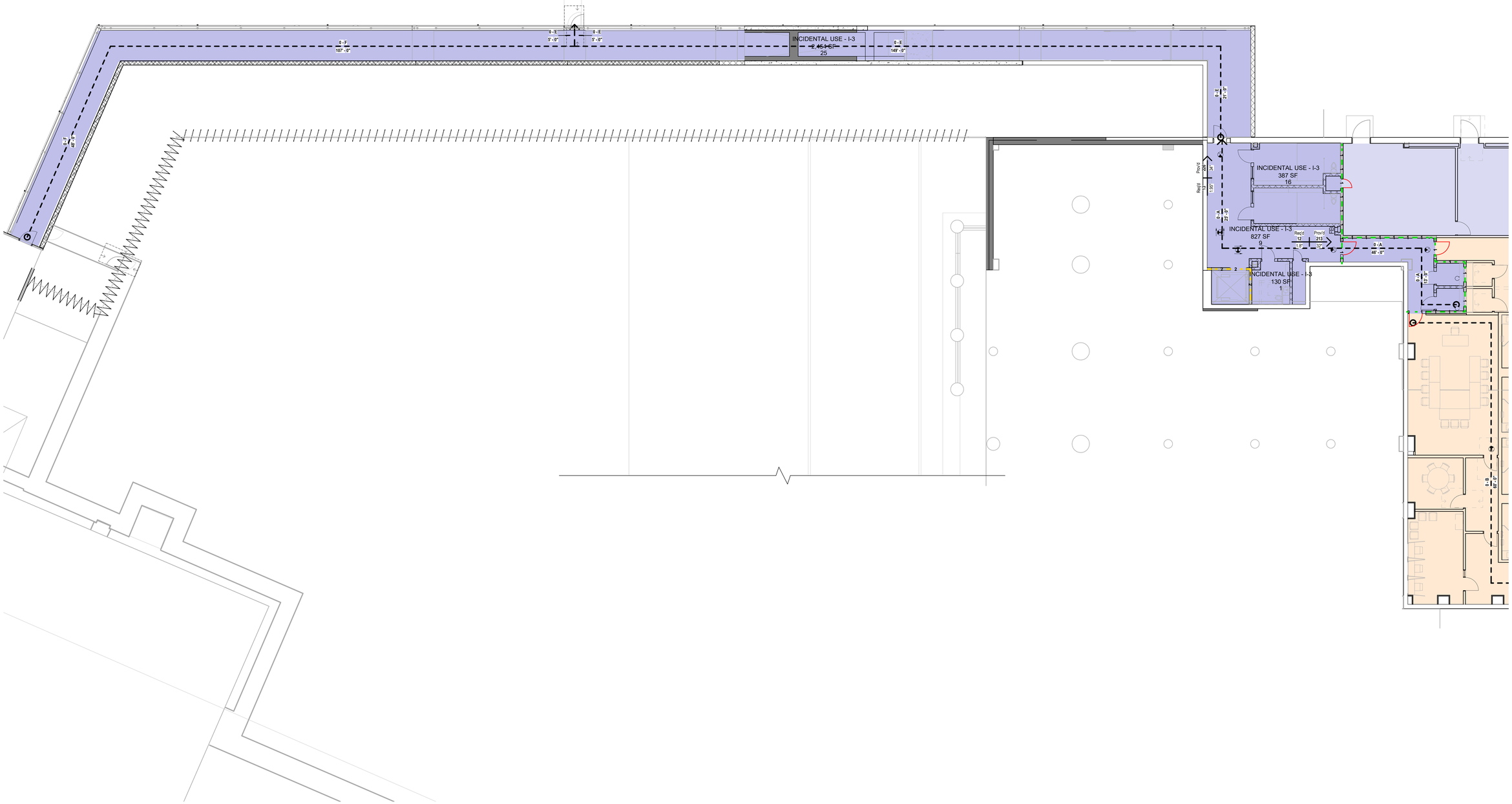
LIFE SAFETY LEGEND

- 3 HR FIRE RATING W/ EQUIVALENT RATED OPENINGS
- 2 HR FIRE RATING W/ 90 MINUTE RATED OPENINGS
- 1 HR FIRE RATING W/ RATED OPENINGS AS SCHEDULED
- PATH OF TRAVEL DISTANCE
- EXIT PATH ID / TRAVEL DISTANCE (A1 / 100' - 0")
- # OF OCC EXITING / DOOR WIDTH (Req'd X / Prov'd X / X")
- # OF OCC EXITING / STAIR WIDTH (Req'd X / Prov'd X / X")
- FIRE EXTINGUISHER (FEC)
- EXIT SIGN
- FIRE RATED DOOR
- ACCESSIBLE ENTRANCE
- SMOKE CURTAIN / SMOKE CURTAIN -REF 11 /A961

MARKING AND IDENTIFICATION NOTE:
WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STNECILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:
1. BE LOCATED WITHIN 15 FEET (5472 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG WITH THE WALL OR PARTITION.
2. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING: "FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS"

000 - TRAVEL DISTANCE PATH - LEVEL 000

PATH ID	TOTAL TRAVEL DISTANCE	COMMENTS
0 - A	92' - 0"	LESS THAN 200FT (INSTITUTIONAL)
0 - B	119' - 0"	LESS THAN 300FT (BUSINESS)
0 - C	166' - 0"	LESS THAN 300FT (BUSINESS)
0 - D	119' - 0"	LESS THAN 300FT (BUSINESS)
0 - E	180' - 0"	LESS THAN 300FT (BUSINESS)
0 - F	155' - 0"	LESS THAN 200FT (INSTITUTIONAL)



1 LIFE SAFETY PLAN - GROUND LEVEL WALKWAY
1/8" = 1'-0"

2021-01-15 9:02:23 AM

THE STATE OF TEXAS — KAUFMAN COUNTY

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

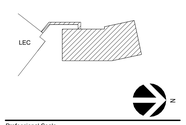
Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

LIFE SAFETY PLAN - GROUND LEVEL WALKWAY

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

G010-B

000 - SCHEDULE OF OCCUPANCY REQUIREMENTS - LEVEL 100

AREA			OCCUPANTS		EGRESS CALCULATIONS		PLUMBING CALCULATIONS										COMMENTS
							WATER CLOSETS				LAVATORIES				DRINKING FOUNTAINS		
OCC. CLASS.	SPACE FUNCTION (IBC TABLE 1004.1.1)	AREA	OCC. FACTOR	OCC. LOAD	REQ. EXIT WIDTH/OCC. OTHER	TOTAL REQ. OTHER EXIT WIDTH	MEN	Provided	WOM	Provided	MEN	Provided	WOM	Provided	DF	Provided	
LEVEL 100																	
A-3-1 Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	ASSEMBLY - FIXED SEATS	1,032 SF	0 SF	150	0.15	22.50"	0.60	0	1.15	0	0.38	0	0.38	0	0.30	0	
B	ACCESSORY - SUPPORT	873 SF	300 SF	3	0.15	0.51"	0.04	0	0.04	0	0.02	0	0.02	0	0.03	0	
B	BUSINESS	23,756 SF	100 SF	320	0.15	48.00"	3.48	8	3.48	8	2.28	8	2.28	8	3.20	6	
B	COURTROOM	2,789 SF	40 SF	71	0.15	10.61"	0.77	0	0.77	0	0.50	0	0.50	0	0.71	0	
I-3-1	INCIDENTAL USE - I-3	719 SF	100 SF	14	0.15	2.08"	0.58	1	0.87	1	0.58	1	0.87	1	0.14	1	
S-1	ACCESSORY - STORAGE	1,234 SF	300 SF	5	0.15	0.78"	0.03	0	0.03	0	0.03	0	0.03	0	0.01	0	
Grand total: 20		30,404 SF		563		84.46"	5.49	9	6.34	9	3.79	9	4.08	9	4.38	7	

LIFE SAFETY LEGEND

- 3 HR FIRE RATING W/ EQUIVALENT RATED OPENINGS
- 2 HR FIRE RATING W/ 90 MINUTE RATED OPENINGS
- 1 HR FIRE RATING W/ RATED OPENINGS AS SCHEDULED
- PATH OF TRAVEL DISTANCE
- EXIT PATH ID / TRAVEL DISTANCE (A1 / 100' - 0")
- # OF OCC EXITING / DOOR WIDTH (Req'd / Prov'd)
- # OF OCC EXITING / STAIR WIDTH (Req'd / Prov'd)
- FIRE EXTINGUISHER (FEC)
- EXIT SIGN
- FIRE RATED DOOR
- ACCESSIBLE ENTRANCE
- SMOKE CURTAIN -REF 11 /A961

MARKING AND IDENTIFICATION NOTE:
WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:
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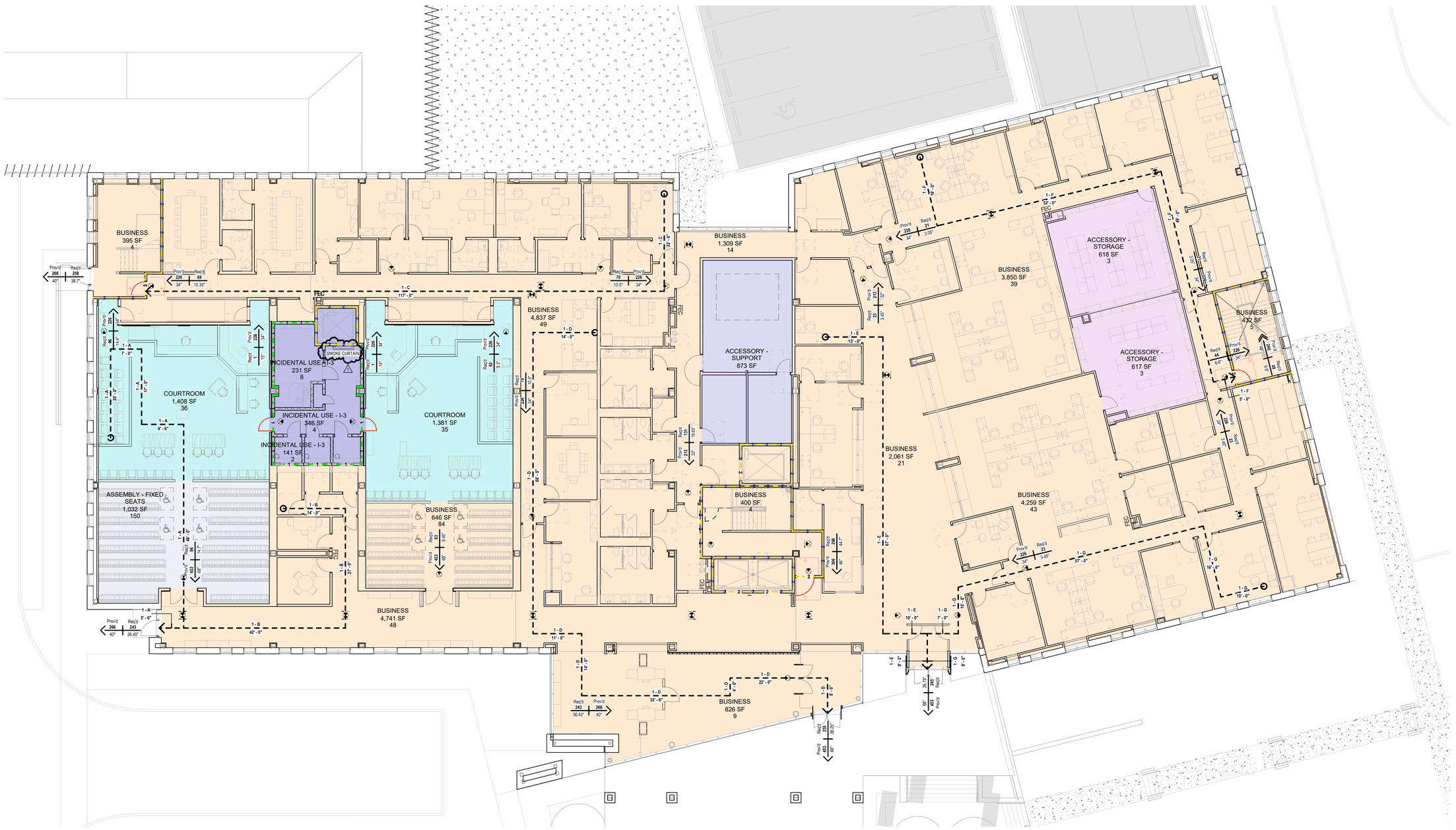
2. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING: "FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS"

000 - TRAVEL DISTANCE PATH - LEVEL 100

PATH ID	TOTAL TRAVEL DISTANCE	COMMENTS
1 - A	105' - 0"	LESS THAN 250FT (ASSEMBLY)
1 - B	83' - 0"	LESS THAN 300FT (BUSINESS)
1 - C	139' - 0"	LESS THAN 300FT (BUSINESS)
1 - D	174' - 6"	LESS THAN 300FT (BUSINESS)
1 - E	98' - 0"	LESS THAN 300FT (BUSINESS)
1 - F	122' - 0"	LESS THAN 300FT (BUSINESS)
1 - G	109' - 0"	LESS THAN 300FT (BUSINESS)



1 LIFE SAFETY PLAN - LEVEL 100
1/8" = 1'-0"

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Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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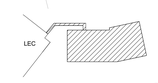
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELIM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

LIFE SAFETY PLAN - LEVEL 1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

G011

000 - SCHEDULE OF OCCUPANCY REQUIREMENTS - LEVEL 200

AREA			OCCUPANTS		EGRESS CALCULATIONS		PLUMBING CALCULATIONS										COMMENTS
							WATER CLOSETS				LAVATORIES				DRINKING FOUNTAINS		
OCC. CLASS.	SPACE FUNCTION (IBC TABLE 1004.1.1)	AREA	OCC. FACTOR	OCC. LOAD	REQ. EXIT WIDTH/OCC. OTHER	TOTAL REQ. OTHER EXIT WIDTH	MEN	Provided	WOM	Provided	MEN	Provided	WOM	Provided	DF	Provided	
LEVEL 200																	
B	ACCESSORY - SUPPORT	860 SF	300 SF	3	0.15	0.92"	0.04	0	0.04	0	0.02	0	0.02	0	0.03	0	
B	BUSINESS	24,827 SF	100 SF	413	0.15	61.94"	4.54	8	4.54	8	3.00	8	3.00	8	4.13	6	OF WITH BOTTLE REFILL
B	COURTROOM	2,658 SF	40 SF	67	0.15	10.11"	0.74	0	0.74	0	0.49	0	0.49	0	0.67	0	
I-3-1	INCIDENTAL USE - I-3	721 SF	100 SF	14	0.15	2.08"	0.58	1	0.87	1	0.58	1	0.87	1	0.14	1	
Grand total: 16		29,066 SF		498		74.63"	5.90	9	6.19	9	4.09	9	4.38	9	4.98	7	

LIFE SAFETY LEGEND

- 3 HR FIRE RATING W/ EQUIVALENT RATED OPENINGS
- 2 HR FIRE RATING W/ 90 MINUTE RATED OPENINGS
- 1 HR FIRE RATING W/ RATED OPENINGS AS SCHEDULED
- PATH OF TRAVEL DISTANCE
- EXIT PATH ID TRAVEL DISTANCE (A1, 100' - 0")
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- FIRE EXTINGUISHER (FEC)
- EXIT SIGN
- FIRE RATED DOOR
- ACCESSIBLE ENTRANCE
- SMOKE CURTAIN (SMOKE CURTAIN -REF 11 /A961)

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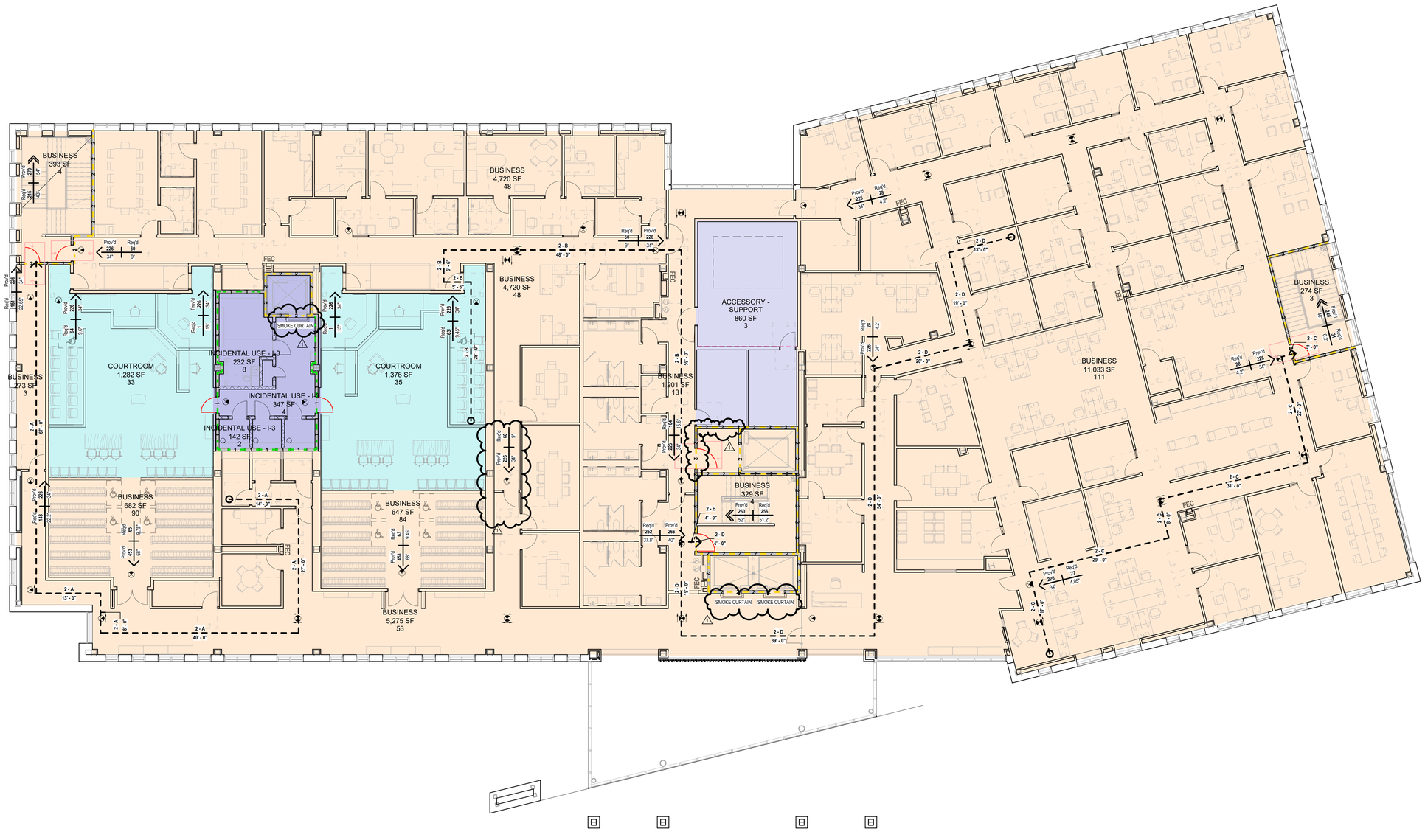
000 - TRAVEL DISTANCE PATH - LEVEL 200

PATH ID	TOTAL TRAVEL DISTANCE	COMMENTS
2 - A	169' - 0"	LESS THAN 300FT (BUSINESS)
2 - B	151' - 0"	LESS THAN 250FT (ASSEMBLY)
2 - C	110' - 0"	LESS THAN 300FT (BUSINESS)
2 - D	166' - 0"	LESS THAN 300FT (BUSINESS)



1 LIFE SAFETY PLAN - LEVEL 200
1/8" = 1'-0"

2021-01-15 9:02:45 AM

THE STATE OF TEXAS — KAUFMAN COUNTY

KAUFMAN COUNTY
JUSTICE CENTER

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KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
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Suite 2850, LB 8
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t +1 214 720 6000 f +1 214 720 6005

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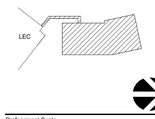
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

LIFE SAFETY PLAN - LEVEL 2

Original is 48 x 36. Do not scale contents of this drawing.

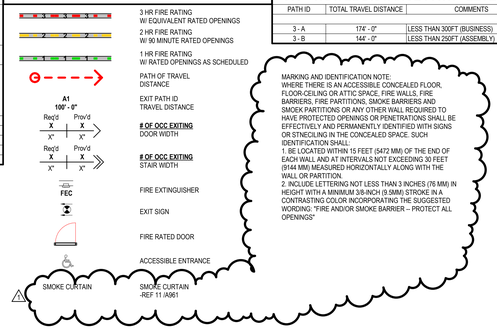
Sheet Number

G012

000 - SCHEDULE OF OCCUPANCY REQUIREMENTS - LEVEL 300

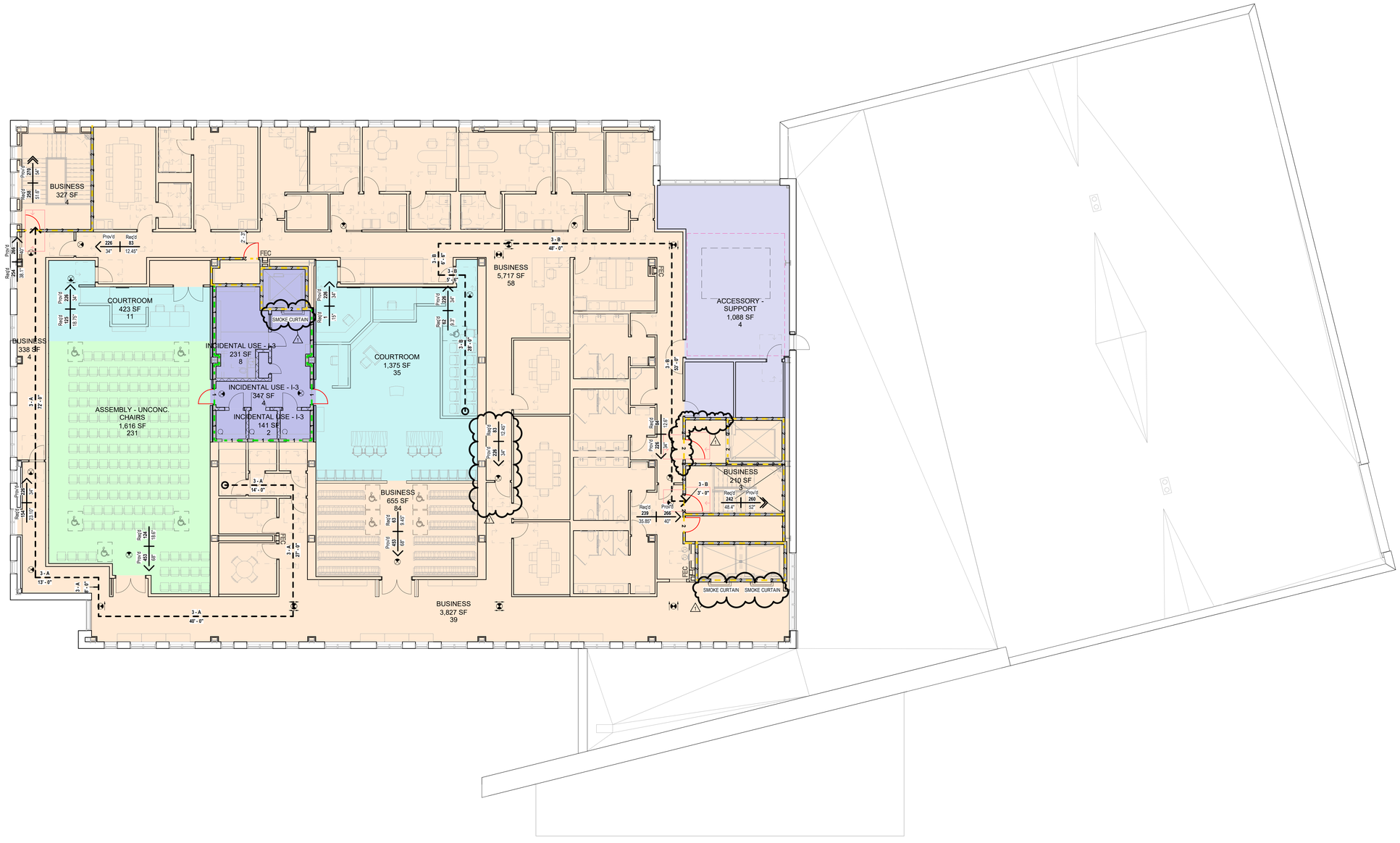
AREA			OCCUPANTS		EGRESS CALCULATIONS		PLUMBING CALCULATIONS										COMMENTS
							WATER CLOSETS				LAVATORIES				DRINKING FOUNTAINS		
OCC. CLASS.	SPACE FUNCTION (IBC TABLE 1004.1.1)	AREA	OCC. FACTOR	OCC. LOAD	REQ. EXIT WIDTH/OCC. OTHER	TOTAL REQ. OTHER EXIT WIDTH	MEN	Provided	WOM	Provided	MEN	Provided	WOM	Provided	DF	Provided	
LEVEL 300																	
A-3-1 Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums	ASSEMBLY - UNCONC. CHAIRS	1,616 SF	7 SF	231	0.15	34.65"	0.92	0	1.78	0	0.58	0	0.58	0	0.46	0	
B	ACCESSORY - SUPPORT	1,088 SF	300 SF	4	0.15	0.62"	0.05	0	0.05	0	0.03	0	0.03	0	0.04	0	
B	BUSINESS	11,074 SF	100 SF	191	0.15	28.65"	2.10	8	2.10	8	1.39	8	1.39	8	1.91	3	DF WITH BOTTLE REFILL
B	COURTROOM	1,799 SF	40 SF	46	0.15	6.89"	0.51	0	0.51	0	0.33	0	0.33	0	0.46	0	
I-3-1	INCIDENTAL USE - I-3	720 SF	100 SF	14	0.15	2.08"	0.58	1	0.67	1	0.58	1	0.67	1	0.14	1	
Grand total: 13		16,297 SF		486		72.83"	4.16	9	5.30	9	2.91	9	3.20	9	3.01	4	

LIFE SAFETY LEGEND



000 - TRAVEL DISTANCE PATH - LEVEL 300

PATH ID	TOTAL TRAVEL DISTANCE	COMMENTS
3 - A	174' - 0"	LESS THAN 300FT (BUSINESS)
3 - B	144' - 0"	LESS THAN 250FT (ASSEMBLY)



1 LIFE SAFETY PLAN - LEVEL 300
1/8" = 1'-0"

2021-01-15 9:02:53 AM

KAUFMAN COUNTY
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Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
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t +1 214 720 6000 f +1 214 720 6005

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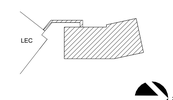

Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

LIFE SAFETY PLAN - LEVEL 3

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

G013

1 MATERIALS PLAN - ENLARGEMENT
1" = 10'-0"

HARDSCAPE CALLOUTS

H1. PLAZA PAVERS
-LARGE FORMAT CONCRETE UNIT PAVER
- 3 COLOR MIX

H2. SPECIALTY PAVING
-CONCRETE UNIT PAVERS
-2 COLOR MIX

H3. EXPOSED AGGREGATE CONCRETE
- 2' x 4' SAW-CUT JOINTS

H4. CONCRETE PAVING
- STANDARD CONCRETE

H5. VEHICULAR PAVING
- REFERENCE CIVIL DRAWINGS

H6. TRUGRID
- REINFORCE LAWN FOR AERIAL ACCESS FIRELANE
-6" FLUSH CONCRETE HEADER EDGE CONDITION, TYP.
-RE: CIVIL FOR INSTALLATION

H7. SILVA CELL
-INSTALL PER MANU. RECOMMENDATION. SEE L500.

H8. DECORATIVE GRAVEL
- RIVER-RUN STONE (1"-2" DIA.)

FURNITURE CALLOUTS

F1A. CAST STONE STAIR
-15" TREADS

F1B. CAST STONE STAIR
-12" TREADS

F1C. CAST-IN-PLACE CONCRETE STAIR W/ CHEEKWALL

F2. HANDRAIL
-STAINLESS STEEL. RE: 4&5|L500

F3. LUEDER STONE SEATWALL
-SPLIT FACE SIDES W/ SMOOTH TOP

F4. SITE WALL
-SEE L503 FOR DETAILS & ELEVATIONS

F5. SECURITY BOLLARD
-CRASH RATED SECURITY BOLLARD

F6. CMU SCREEN WALL
-HEIGHT: 8' MIN.

F7. SECURITY FENCE W/ RAZOR WIRE - TYPE A
-HEIGHT: 12' CHAIN LINK PLUS RAZOR WIRE

F7B. SECURITY FENCE W/ RAZOR WIRE - TYPE B
-HEIGHT: 8' CHAIN LINK PLUS RAZOR WIRE

F8. PEDESTRIAN SECURITY GATE - OPAQUE

F9. VEHICULAR SECURITY GATE - OPAQUE
-SLIDE GATE

F10. PEDESTRIAN SECURITY GATE - NON-OPAQUE
-CHAIN LINK GATE

F11. VEHICULAR SECURITY GATE - NON-OPAQUE
-CHAIN LINK SLIDE GATE

F12. FLAG POLE
-HEIGHT: 25'

F13. VEHICULAR ARM GATE
-CARD READER OPERATED

F14. MONUMENT SIGNAGE
-BY OTHER

F15. WAYFINDING SIGNAGE
-BY OTHER

F16. GUARDRAIL

F17. DOOR OPERATOR
-530 POST BY NORTON

LIGHTING CALLOUTS

L1. SITE LIGHTING
-REFERENCE ELECTRICAL DRAWINGS

LEGEND:

PA — PLANTING AREA
-SEE L300 SERIES

PROPOSED TREE
-SEE L300 SERIES

EXISTING TREE TO REMAIN

NOTES

1) SEE L500 SERIES FOR ADDITIONAL DETAILS
2) FURNITURE SHOWN IS TO BE OWNER SELECTED IN FF&E PACKAGE

Project

Prepared For

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 3300, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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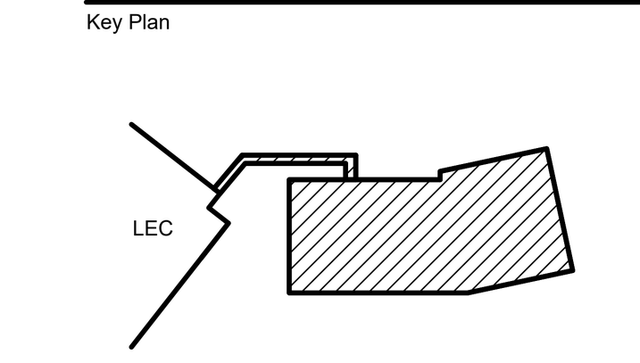
Key Plan



Professional Seals

2020-12-11

No.	Description	Date
	100% DESIGN DEVELOPMENT	08/21/2020
	50% CONSTRUCTION DOCUMENTS	10/12/2020
	90% CONSTRUCTION DOCUMENTS	11/23/2020
	CONSTRUCTION DOCUMENTS	12/11/2020
1	ADDENDUM 01	01/15/2021

Project No

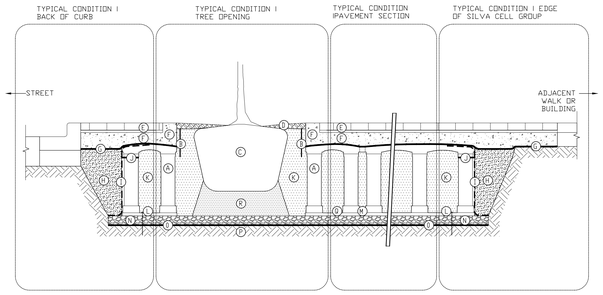
Sheet Title

MATERIALS PLAN - ENLARGEMENT

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

L201



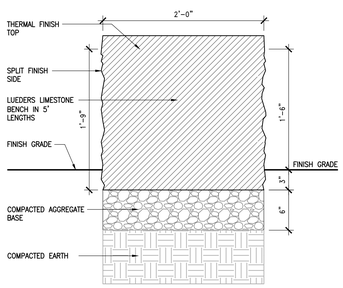
KEY PLAN

- (A) SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) DEEPROOT UB12-2 ROOT BARRIER. INSTALL DIRECTLY ADJACENT TO CONCRETE EDGE RESTRAINT
- (C) TREE ROOT PACKAGE, SIZE VARIES
- (D) 1-2" MULCH, PLACED IN TREE OPENING
- (E) PAVERS AND SETTING BED, PER PROJECT
- (F) 5" MIN CIP CONCRETE BASE AND EDGE RESTRAINT AT TREE OPENING. CAST DIRECTLY ON GEOTEXTILE OVER CELL DECKS
- (G) GEOTEXTILE 18" MIN OVERLAP PAST EXCAVATION
- (H) BACKFILL, PER PROJECT SPECIFICATIONS
- (I) GEOGRID TO LINE PERIMETER OF SYSTEM WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)
- (J) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL AT BASE OF UPPER LEG FLARE
- (K) PLANTING SOIL, PER PROJECT SPECIFICATIONS. COMPACTED TO 70-80% PROCTOR.
- (L) PIN, PER SILVA CELL SPECIFICATIONS
- (M) 1" TO 4" SPACING BETWEEN SILVA CELLS AT BASE
- (N) 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR
- (O) GEOTEXTILE FABRIC, PLACED BELOW AGGREGATE SUB BASE
- (P) SUBGRADE, COMPACTED TO 95% PROCTOR
- (Q) SILVA CELL BASE SLOPE, 7% MAX
- (R) PLANTING SOIL BELOW TREE ROOT PACKAGE, COMPACTED TO 85-90% PROCTOR

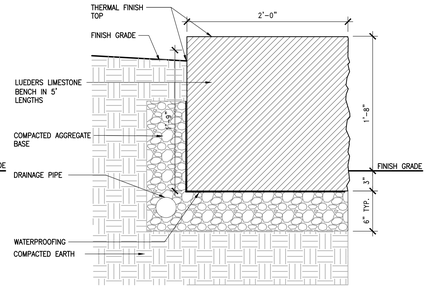
NOTES

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. SUBDRAIN PIPE SHALL BE INSTALLED BELOW SILVA CELL SYSTEM. ENSURE POSITIVE DRAINAGE TO CIVIL STORM SYSTEM.

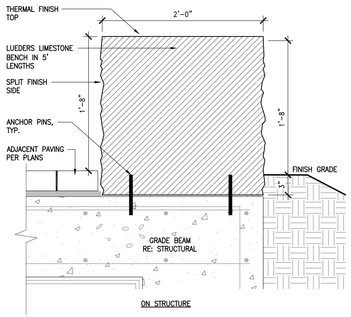
15 SILVA CELL
NTS



FREE STANDING

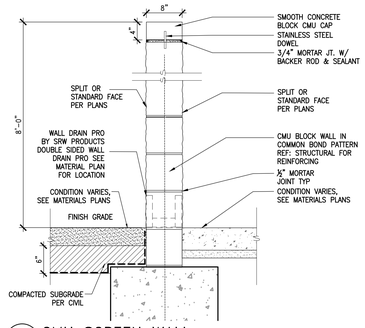


RETAINING



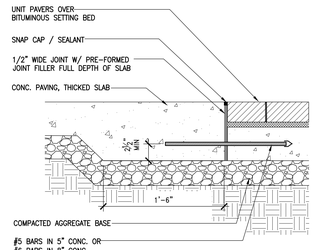
ON STRUCTURE

14 LUEDERS STONE BENCH
1-1/2" = 1'-0"

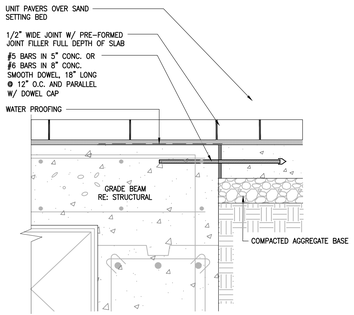


9 CMU SCREEN WALL
1" = 1'-0"

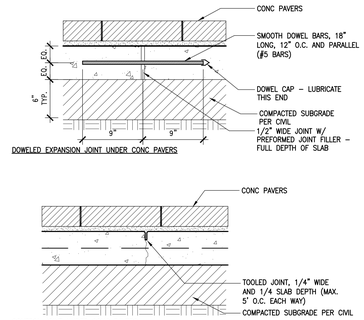
0 .5 1 2 FT



3 DOWELED EXPANSION JOINT – UNIT PAVERS @ CONCRETE
1-1/2" = 1'-0"

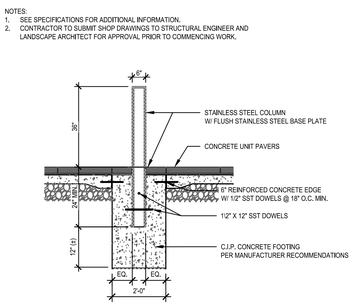


8 UNIT PAVERS @ STRUCTURE
1-1/2" = 1'-0"

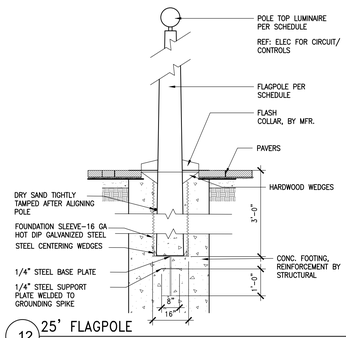


DOWELED EXPANSION JOINT UNDER CONC PAVERS

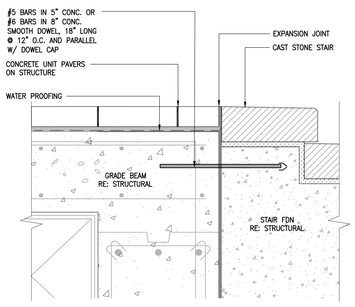
CONTROL JOINT UNDER CONC PAVERS



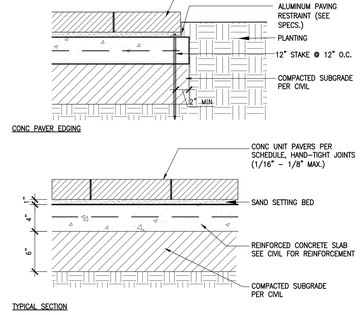
13 SECURITY BOLLARD
1/2" = 1'-0"



12 25' FLAGPOLE
1/2" = 1'-0"



7 TOP TREAD @ STRUCTURE
1-1/2" = 1'-0"

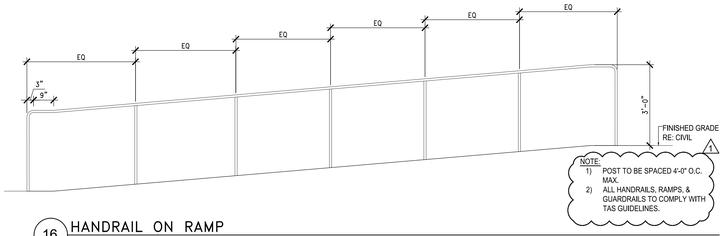


CONC PAVER EDGING

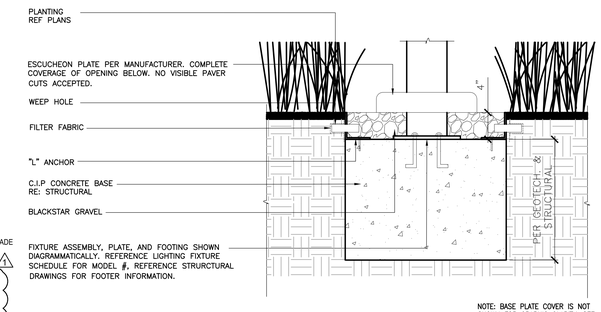
TYPICAL SECTION

2 CONC PAVERS ON CONC. BASE
1-1/2" = 1'-0"

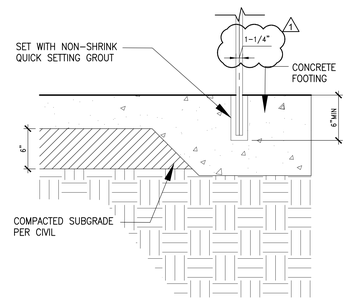
PAVER NOTE:
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SUBSTRUCTURE ABUTS CONCRETE WALK, CURBS, WALLS, OR OTHER ADJACENT STRUCTURES.
2. EXPANSION JOINTS IN THE CONCRETE SUBSTRUCTURE FIELD SHALL HAVE A MINIMUM SPACING OF 40 FEET ON CENTER, TYP.
3. CONTROL JOINTS IN THE CONCRETE SUBSTRUCTURE FIELD SHALL HAVE A MINIMUM SPACING OF 8 FEET ON CENTER, TYP.



16 HANDRAIL ON RAMP
1/2" = 1'-0"

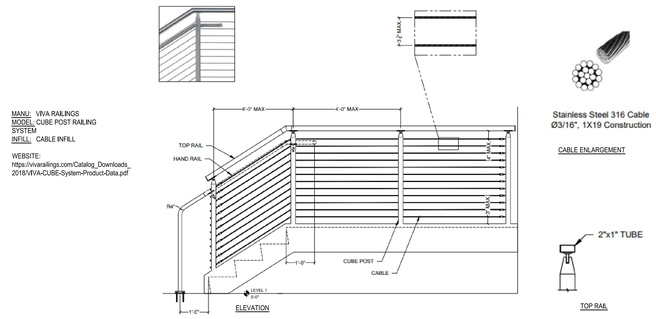


11 LIGHT POLE BASE DETAIL
1-1/2" = 1'-0"

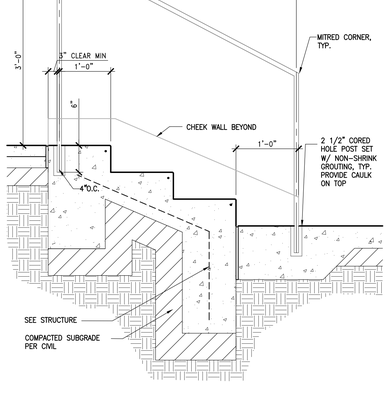


17 TYPICAL HANDRAIL FOOTING
1-1/2" = 1'-0"

0 6 12 24 IN

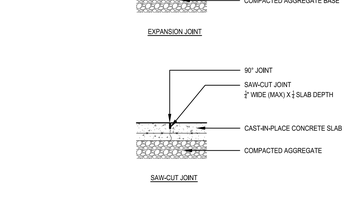


10 GUARDRAIL
1/2" = 1'-0"



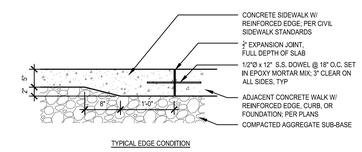
6 F1C – C.I.P. CONCRETE STAIR
1" = 1'-0"

0 .5 1 2 FT

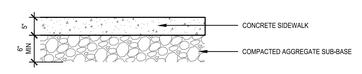


EXPANSION JOINT

SAW-CUT JOINT



TYPICAL EDGE CONDITION



STANDARD PROFILE

1 CONCRETE WALK W/ REINFORCED EDGE
1" = 1'-0"

THE STATE OF TEXAS
KAUFMAN COUNTY

Project

Prepared For

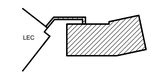
Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 3300, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

2020-12-11

No.	Description	Date
	100% DESIGN DEVELOPMENT	08/21/2020
	50% CONSTRUCTION DOCUMENTS	10/12/2020
	90% CONSTRUCTION DOCUMENTS	11/23/2020
	CONSTRUCTION DOCUMENTS	12/11/2020
1	ADDENDUM 01	01/15/2021

Project No:

Sheet Title

DETAILS

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

L500

KEY NOTES - DIMENSIONAL PLAN

KEY	DESCRIPTION

DIMENSIONAL PLAN LEGEND

- FIRE RATED PARTITION, SEE SHEETS
- GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
- FEC — FIRE EXTINGUISHER CABINET - STEEL, SOLID FLUSH PANEL, FULLY RECESSED; SYMBOL BLACK DECAL; SEE SHEET A932 FOR FIRE EXTINGUISHER DETAIL IN A CHASE
- DETENTION AREA. REFERENCE QD SHEETS
- SHAFT AREA
- FOR COURTROOM, REFER TO MILLWORK DRAWINGS. REFERENCE QD SHEETS FOR SECURITY WALL TYPES
- WALL ASSEMBLY WITH SECURITY MESH. SEE PARTITION SCHEDULE FOR DETAILS, REFERENCE QD SHEETS FOR SECURITY WALL TYPES
- SECURE PERIMETER REFERENCE QD SHEETS

GENERAL DIMENSION CONTROL PLAN NOTES

1. ALL PARTITIONS ARE DIMENSIONED FROM FACE OF PARTITION TYPE AS INDICATED UON. ALL DIMENSIONS MARKED "CLEAR" OR "CLR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESSES OF ALL WALL FINISHES.
2. DIMENSIONS NOTED "CLEAR" OR "CLR" MUST BE ACCURATELY MAINTAINED AND SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
3. ALL SINGLE DOORS (EXTERIOR SIDE OF DOOR FRAME) INSTALLED ON CMU WALLS ARE TO BE FLUSHED WITH INTERSECTING WALL U.O.N.
4. ALL SINGLE DOORS (INTERIOR FACE OF DOOR FRAME) ON GYP. BD. PARTITIONS ARE TO BE INSTALLED 4" OFFSET FROM CORNER OR INTERSECTING WALL U.O.N.
5. ALL NOTED SINGLE DOORS ARE DIMENSIONED TO THE DOOR'S CENTER LINE.
6. ALL DOUBLE DOORS ARE TO BE INSTALLED ON CENTER OF THE WALL, U.O.N.
7. REFERENCE ENLARGED PLANS AND DETAILS FOR DIMESIONS NOT SHOWN IN THESE OVERALL PLANS.
8. THE ARCHITECT MUST BE NOTIFIED WHEN FIELD DIMENSION DISCREPANCIES OCCUR BEFORE THE CONSTRUCTION OF PARTITIONS STARTS.
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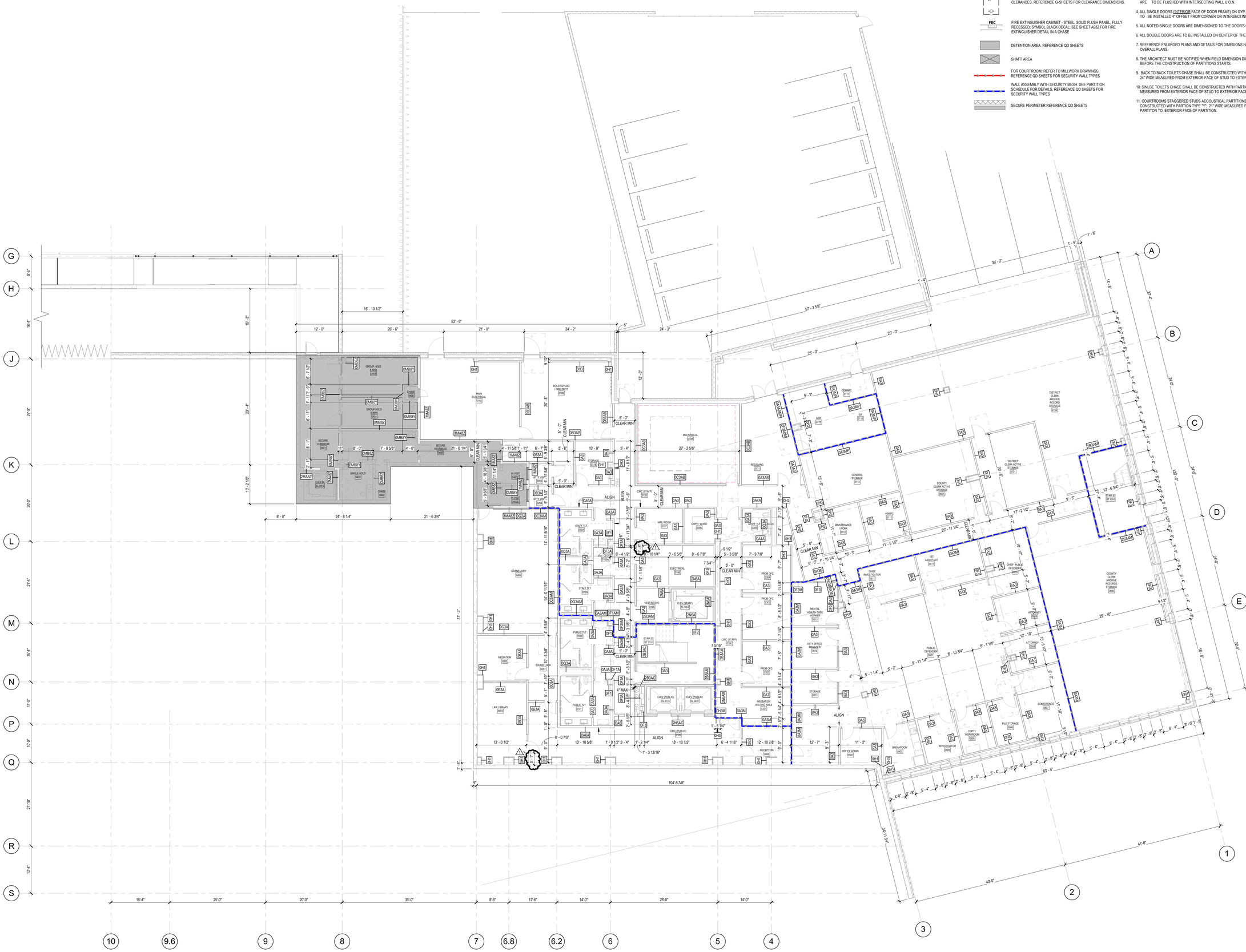
11. COURTROOMS STAGGERED STUDS ACCOUSTICAL PARTITIONS SHALL BE CONSTRUCTED WITH PARTION TYPE "Y": 21" WIDE MEASURED FROM EXTERIOR FACE PARTITON TO EXTERIOR FACE OF PARTITION.



1 DIMENSION PLAN - GROUND LEVEL
1/8" = 1'-0"

2021-01-15 1:13:30 PM

THE STATE OF TEXAS
KAUFMAN COUNTY

KAUFMAN COUNTY JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
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t +1 214 720 6000 f +1 214 720 6005

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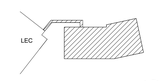
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELIM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

OVERALL DIMENSION PLAN - GROUND LEVEL

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

A111

POWER & TELEDATA LEGEND

POWER & TELEDATA - FLOOR MOUNT

RECESSED	DESCRIPTION	SURFACE
	POWER DUPLEX	
FF	POWER FURNITURE FEED	FF
	POWER QUADRAPLEX	
	COMBINATION DUPLEX POWER, TELEDATA	
	COMBINATION QUADRAPLEX POWER, TELEDATA	
AV	AUDIO VISUAL	AV
	TELEDATA DUPLEX	
FF	TELEDATA FURNITURE FEED	FF
	TELEDATA QUADRAPLEX	

KEY NOTES - DIMENSIONAL PLAN

KEY	DESCRIPTION

DIMENSIONAL PLAN LEGEND

- FIRE RATED PARTITION, SEE SHEETS
- GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
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- WALL ASSEMBLY WITH SECURITY MESH. SEE PARTITION SCHEDULE FOR DETAILS, REFERENCE QD SHEETS FOR SECURITY WALL TYPES
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GENERAL DIMENSION CONTROL PLAN NOTES

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1 DIMENSION PLAN - LEVEL 1
1/8" = 1'-0"

2021-01-15 1:13:37 PM

THE STATE OF TEXAS — KAUFMAN COUNTY

KAUFMAN COUNTY JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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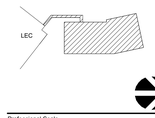
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

OVERALL DIMENSION PLAN - LEVEL 1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

A112

POWER & TELEDATA LEGEND

POWER & TELEDATA - FLOOR MOUNT

RECESSED	DESCRIPTION	SURFACE
	POWER DUPLEX	
FF	POWER FURNITURE FEED	FF
	POWER QUADRAPLEX	
	COMBINATION DUPLEX POWER, TELEDATA	
	COMBINATION QUADRAPLEX POWER, TELEDATA	
AV	AUDIO VISUAL	AV
	TELEDATA DUPLEX	
FF	TELEDATA FURNITURE FEED	FF
	TELEDATA QUADRAPLEX	

KEY NOTES - DIMENSIONAL PLAN

KEY	DESCRIPTION

DIMENSIONAL PLAN LEGEND

- FIRE RATED PARTITION, SEE SHEETS
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1 DIMENSION PLAN - LEVEL 2
1/8" = 1'-0"

THE STATE OF TEXAS — KAUFMAN COUNTY

KAUFMAN COUNTY JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
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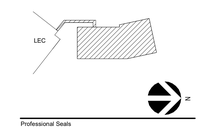
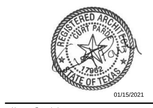
Key Plan



Professional Seals



01/15/2021

No.	Description	Date
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	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

OVERALL DIMENSION PLAN - LEVEL 2

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

A113

2021-01-15 1:13:44 PM

POWER & TELEDATA LEGEND

POWER & TELEDATA - FLOOR MOUNT

RECESSED	DESCRIPTION	SURFACE
	POWER DUPLEX	
FF	POWER FURNITURE FEED	FF
	POWER QUADRAPLEX	
	COMBINATION DUPLEX POWER, TELEDATA	
	COMBINATION QUADRAPLEX POWER, TELEDATA	
AV	AUDIO VISUAL	AV
	TELEDATA DUPLEX	
FF	TELEDATA FURNITURE FEED	FF
	TELEDATA QUADRAPLEX	

KEY NOTES - DIMENSIONAL PLAN

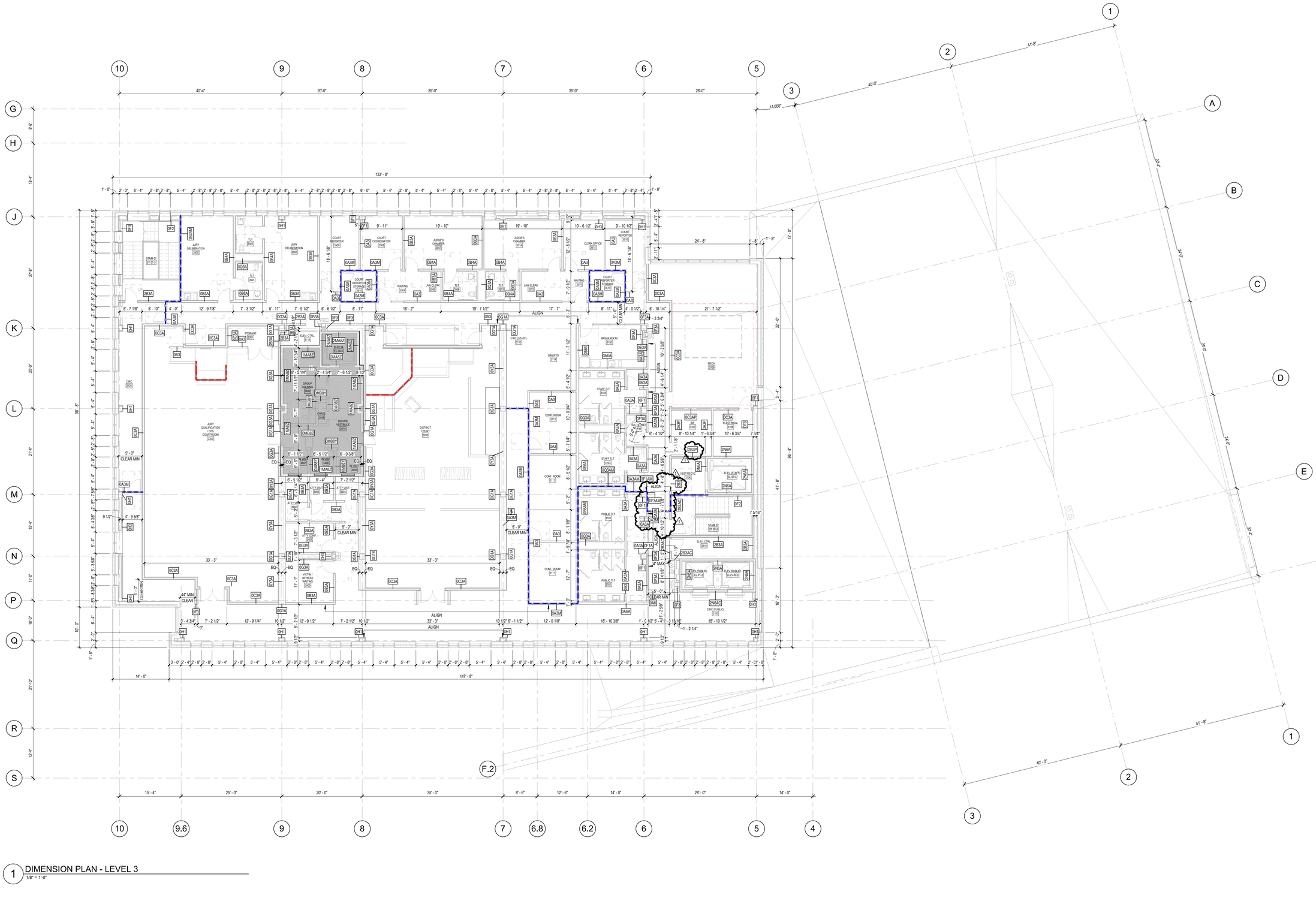
KEY	DESCRIPTION

DIMENSIONAL PLAN LEGEND

- FIRE RATED PARTITION, SEE SHEETS
- GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
- FEC — FIRE EXTINGUISHER CABINET - STEEL, SOLID FLUSH PANEL, FULLY RECESSED; SYMBOL BLACK DECAL; SEE SHEET A932 FOR FIRE EXTINGUISHER DETAIL IN A CHASE
- DETENTION AREA. REFERENCE QD SHEETS
- SHAFT AREA
- FOR COURTROOM, REFER TO MILLWORK DRAWINGS. REFERENCE QD SHEETS FOR SECURITY WALL TYPES
- WALL ASSEMBLY WITH SECURITY MESH. SEE PARTITION SCHEDULE FOR DETAILS, REFERENCE QD SHEETS FOR SECURITY WALL TYPES
- SECURE PERIMETER REFERENCE QD SHEETS

GENERAL DIMENSION CONTROL PLAN NOTES

1. ALL PARTITIONS ARE DIMENSIONED FROM FACE OF PARTITION TYPE AS INDICATED UON. ALL DIMENSIONS MARKED "CLEAR" OR "CLR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESSES OF ALL WALL FINISHES.
2. DIMENSIONS NOTED "CLEAR" OR "CLR" MUST BE ACCURATELY MAINTAINED AND SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
3. ALL SINGLE DOORS (EXTERIOR SIDE OF DOOR FRAME) INSTALLED ON CMU WALLS ARE TO BE FLUSHED WITH INTERSECTING WALL U.O.N.
4. ALL SINGLE DOORS (INTERIOR FACE OF DOOR FRAME) ON GYP. BD. PARTITIONS ARE TO BE INSTALLED 4" OFFSET FROM CORNER OR INTERSECTING WALL U.O.N.
5. ALL NOTED SINGLE DOORS ARE DIMENSIONED TO THE DOOR'S CENTER LINE.
6. ALL DOUBLE DOORS ARE TO BE INSTALLED ON CENTER OF THE WALL, U.O.N.
7. REFERENCE ENLARGED PLANS AND DETAILS FOR DIMESIONS NOT SHOWN IN THESE OVERALL PLANS.
8. THE ARCHITECT MUST BE NOTIFIED WHEN FIELD DIMENSION DISCREPANCIES OCCUR BEFORE THE CONSTRUCTION OF PARTITIONS STARTS.
9. BACK TO BACK TOILETS CHASE SHALL BE CONSTRUCTED WITH PARTION TYPE "Q", 24" WIDE MEASURED FROM EXTERIOR FACE OF STUD TO EXTERIOR FACE OF STUD.
10. SINLGE TOILETS CHASE SHALL BE CONSTRUCTED WITH PARTION TYPE "Q, 18" WIDE MEASURED FROM EXTERIOR FACE OF STUD TO EXTERIOR FACE OF STUD.
11. COURTROOMS STAGGERED STUDS ACCOUSTICAL PARTITIONS SHALL BE CONSTRUCTED WITH PARTION TYPE "Y": 21" WIDE MEASURED FROM EXTERIOR FACE PARTITON TO EXTERIOR FACE OF PARTITION.



1 DIMENSION PLAN - LEVEL 3
1/8" = 1'-0"

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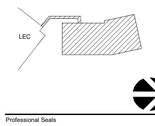

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No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

OVERALL DIMENSION PLAN - LEVEL 3

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

A114

KEY NOTES - FLOOR PLAN

KEY	DESCRIPTION
P 27	STRUCTURAL STEEL, SEE STRUCT. DWGS
P 31	STORAGE RACKS
P 57	CONCRETE PLASTER, SEE STRUCT DWGS.

FLOOR PLAN LEGEND

- FIRE RATED PARTITION, SEE SHEETS
- GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- COMMERCIAL DOOR OPENING. DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLERANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
- DETENTION DOOR OPENING (WITH "D" DESIGNATION) REFERENCE QD-SHEETS
- DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLERANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
- FEC — FIRE EXTINGUISHER CABINET - STEEL, SOLID FLUSH PANEL, FULLY RECESSED; SYMBOL BLACK DECAL; SEE A900 SERIES FOR FIRE EXTINGUISHER DETAILS
- DETENTION AREA: REFERENCE QD SHEETS
- SHAFT AREA
- SECURE PERIMETER REFERENCE QD SHEETS

GENERAL PLAN NOTES

1. ALL GYP BD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED WITH NO VISIBLE JOINTS. PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES WHERE REQUIRED. ALL SURFACES SHALL BE ALIGNED.
2. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE, PER DETAIL.
3. FIRE SAFE PENETRATIONS AT RATED PARTITIONS PER APPLICABLE UL ASSEMBLY.
4. ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHELL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED.
5. PROVIDE METAL STUD ANCHOR BRACKETS AS DETAILED AT LOCATIONS INCLUDING BUT NOT LIMITED TO: GRAB BARS, SHELVING, OVERHEAD CABINETS, SIGNAGE, TOILET ROOMS ACCESSORIES, ETC.
6. ALL WOOD TO BE FIRE RETARDANT TREATED IN ACCORDANCE WITH LOCAL CODES.
7. ALL ARCHITECTURAL WOODWORK, TO BE PREMIUM GRADE OR BETTER AS DEFINED BY THE ARCHITECTURAL WOOD WORK INSTITUTE OR WIC.
8. REFER TO A900 SERIES FOR COMMERCIAL DOOR SCHEDULE, FRAME AND HARDWARE TYPES.
9. REFER TO QD900 SERIES FOR DETENTION DOOR SCHEDULE, FRAME AND HARDWARE TYPES.
10. REFER TO A910 SERIES FOR PARTITION TYPES AND DETAILS
11. PROVIDE 1" RADIUS BULLNOSE CMU UP TO 1 COURSE ABOVE CEILING IN ALL DETENTION AREAS.
12. ALL PARTITIONS EXTEND UP TO STRUCTURAL DECK ABOVE U.O.N.
13. REFER TO FF&E PLANS FOR FURNITURE AND EQUIPMENT; COORDINATE POWER AND DATA LOCATIONS.
14. PROVIDE BLOCKING AS REQUIRED TO SUPPORT AV SCREENS. REFER TO AV DRAWINGS AND SPECIFICATIONS FOR DISPLAY AND MOUNTING SIZES.

1 FLOOR PLAN - GROUND LEVEL
1/8" = 1'-0"

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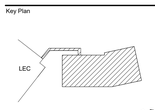

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1	ADDENDELUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
FLOOR PLAN - GROUND LEVEL

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
A201

KEY NOTES - FLOOR PLAN

KEY	DESCRIPTION
P 27	STRUCTURAL STEEL. SEE STRUCT. DWGS
P 31	STORAGE RACKS
P 35	SECURITY ACCESS X-RAY EQUIPMENT
P 59	ADA SECURITY GATE. BASIS OF DESIGN: ALVARADO VSG PEDESTRIAN SECURITY GATE

FLOOR PLAN LEGEND

- FIRE RATED PARTITION, SEE SHEETS
- GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- COMMERCIAL DOOR OPENING. DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
- DETENTION DOOR OPENING (WITH "D" DESIGNATION) REFERENCE QD-SHEETS
- DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
- FEC — FIRE EXTINGUISHER CABINET - STEEL, SOLID FLUSH PANEL, FULLY RECESSED; SYMBOL BLACK DECAL; SEE A900 SERIES FOR FIRE EXTINGUISHER DETAILS
- DETENTION AREA. REFERENCE QD SHEETS
- SHAFT AREA
- SECURE PERIMETER REFERENCE QD SHEETS

GENERAL PLAN NOTES

1. ALL GYP BD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED WITH NO VISIBLE JOINTS. PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES WHERE REQUIRED. ALL SURFACES SHALL BE ALIGNED.
2. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE, PER DETAIL.
3. FIRE SAFE PENETRATIONS AT RATED PARTITIONS PER APPLICABLE UL ASSEMBLY.
4. ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHELL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED.
5. PROVIDE METAL STUD ANCHOR BRACKETS AS DETAILED AT LOCATIONS INCLUDING BUT NOT LIMITED TO: GRAB BARS, SHELVING, OVERHEAD CABINETS, SIGNAGE, TOILET ROOMS ACCESSORIES, ETC.
6. ALL WOOD TO BE FIRE RETARDANT TREATED IN ACCORDANCE WITH LOCAL CODES.
7. ALL ARCHITECTURAL WOODWORK, TO BE PREMIUM GRADE OR BETTER AS DEFINED BY THE ARCHITECTURAL WOOD WORK INSTITUTE OR WIC.
8. REFER TO A900 SERIES FOR COMMERCIAL DOOR SCHEDULE, FRAME AND HARDWARE TYPES.
9. REFER TO QD900 SERIES FOR DETENTION DOOR SCHEDULE, FRAME AND HARDWARE TYPES.
10. REFER TO A910 SERIES FOR PARTITION TYPES AND DETAILS
11. PROVIDE 1" RADIUS BULLNOSE CMU UP TO 1 COURSE ABOVE CEILING IN ALL DETENTION AREAS.
12. ALL PARTITIONS EXTEND UP TO STRUCTURAL DECK ABOVE U.O.N.
13. REFER TO FF&E PLANS FOR FURNITURE AND EQUIPMENT; COORDINATE POWER AND DATA LOCATIONS.
14. PROVIDE BLOCKING AS REQUIRED TO SUPPORT AV SCREENS. REFER TO AV DRAWINGS AND SPECIFICATIONS FOR DISPLAY AND MOUNTING SIZES.

1 FLOOR PLAN - LEVEL 1
1/8" = 1'-0"

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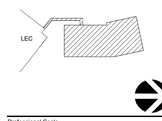

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1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
FLOOR PLAN - LEVEL 1

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Sheet Number
A202

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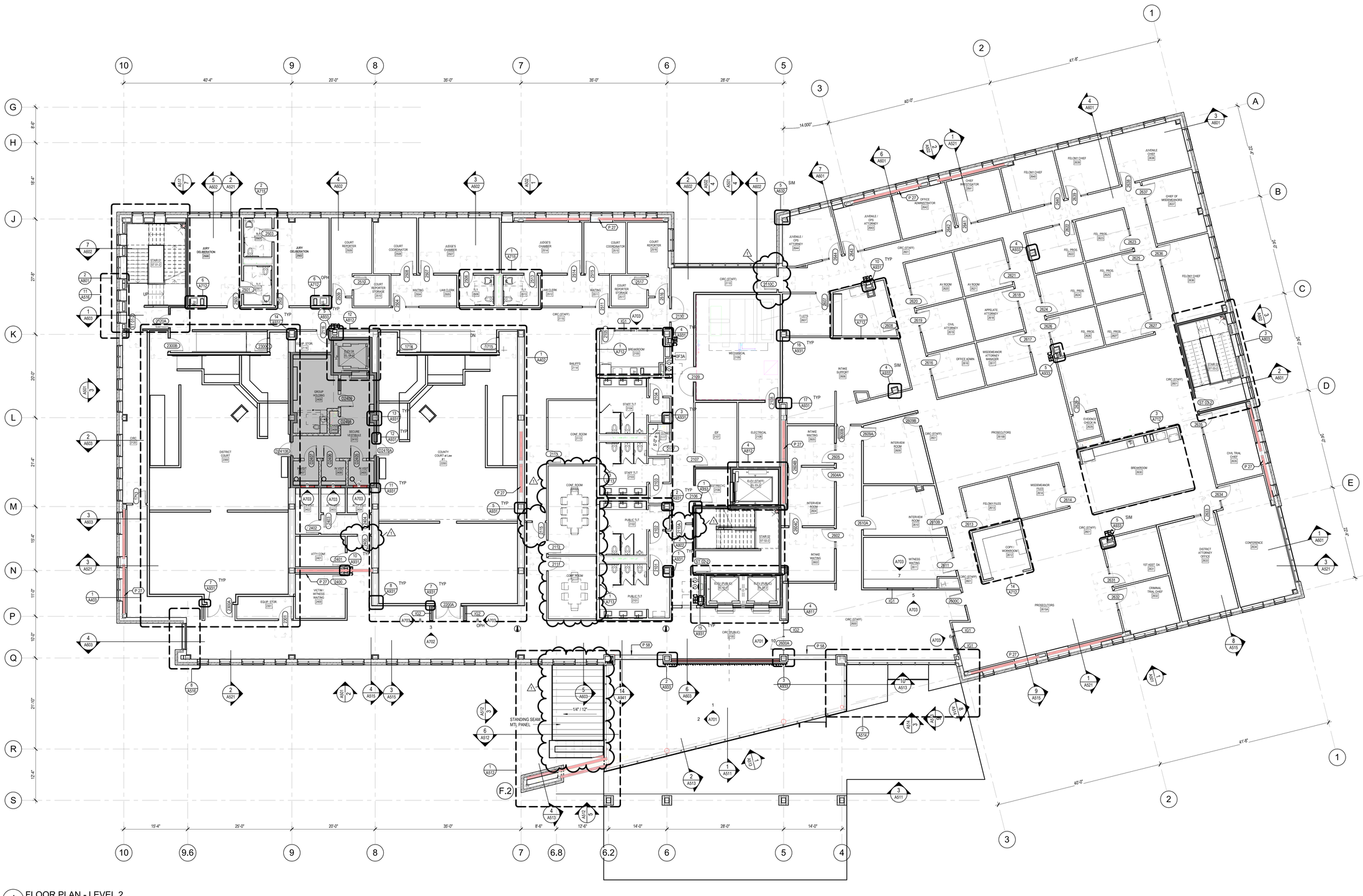

KEY NOTES - FLOOR PLAN

KEY	DESCRIPTION
P 27	STRUCTURAL STEEL. SEE STRUCT. DWGS
P 58	GUARDRAIL SYSTEM AT WALKWAY EDGE. REF: SPECIFICATION SECTION 05 73 13 "GLAZED DECORATIVE RAILING

FLOOR PLAN LEGEND

▬	FIRE RATED PARTITION, SEE SHEETS
═	GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
100	COMMERCIAL DOOR OPENING. DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
D100	DETENTION DOOR OPENING (WITH "D" DESIGNATION) REFERENCE QD-SHEETS DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
FEC	FIRE EXTINGUISHER CABINET - STEEL, SOLID FLUSH PANEL, FULLY RECESSED; SYMBOL BLACK DECAL; SEE A900 SERIES FOR FIRE EXTINGUISHER DETAILS
▨	DETENTION AREA. REFERENCE QD SHEETS
☒	SHAFT AREA
▨	SECURE PERIMETER REFERENCE QD SHEETS

GENERAL PLAN NOTES

1. ALL GYP BD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED WITH NO VISIBLE JOINTS. PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES WHERE REQUIRED. ALL SURFACES SHALL BE ALIGNED.
2. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE, PER DETAIL.
3. FIRE SAFE PENETRATIONS AT RATED PARTITIONS PER APPLICABLE UL ASSEMBLY.
4. ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHELL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED.
5. PROVIDE METAL STUD ANCHOR BRACKETS AS DETAILED AT LOCATIONS INCLUDING BUT NOT LIMITED TO: GRAB BARS, SHELVING, OVERHEAD CABINETS, SIGNAGE, TOILET ROOMS ACCESSORIES, ETC.
6. ALL WOOD TO BE FIRE RETARDANT TREATED IN ACCORDANCE WITH LOCAL CODES.
7. ALL ARCHITECTURAL WOODWORK, TO BE PREMIUM GRADE OR BETTER AS DEFINED BY THE ARCHITECTURAL WOOD WORK INSTITUTE OR WIC.
8. REFER TO A900 SERIES FOR COMMERCIAL DOOR SCHEDULE, FRAME AND HARDWARE TYPES.
9. REFER TO QD900 SERIES FOR DETENTION DOOR SCHEDULE, FRAME AND HARDWARE TYPES.
10. REFER TO A910 SERIES FOR PARTITION TYPES AND DETAILS
11. PROVIDE 1" RADIUS BULLNOSE CMU UP TO 1 COURSE ABOVE CEILING IN ALL DETENTION AREAS.
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13. REFER TO FF&E PLANS FOR FURNITURE AND EQUIPMENT; COORDINATE POWER AND DATA LOCATIONS.
14. PROVIDE BLOCKING AS REQUIRED TO SUPPORT AV SCREENS. REFER TO AV DRAWINGS AND SPECIFICATIONS FOR DISPLAY AND MOUNTING SIZES.

1 FLOOR PLAN - LEVEL 2
1/8" = 1'-0"

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	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

FLOOR PLAN - LEVEL 2

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

A203

KEY NOTES - FLOOR PLAN

KEY	DESCRIPTION
P 27	STRUCTURAL STEEL. SEE STRUCT. DWGS

FLOOR PLAN LEGEND

═	FIRE RATED PARTITION, SEE SHEETS
═	GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
100	COMMERCIAL DOOR OPENING. DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
D100	DETENTION DOOR OPENING (WITH "D" DESIGNATION) REFERENCE QD-SHEETS DASHLINES ADJACENT TO DOORS INDICATE DOOR EGRESS CLEARANCES. REFERENCE G-SHEETS FOR CLEARANCE DIMENSIONS.
FEC	FIRE EXTINGUISHER CABINET - STEEL, SOLID FLUSH PANEL, FULLY RECESSED; SYMBOL BLACK DECAL; SEE A900 SERIES FOR FIRE EXTINGUISHER DETAILS
▨	DETENTION AREA. REFERENCE QD SHEETS
☒	SHAFT AREA
▨	SECURE PERIMETER REFERENCE QD SHEETS

GENERAL PLAN NOTES

1. ALL GYP BD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED WITH NO VISIBLE JOINTS. PATCH AND REPAIR SURFACES TO MATCH ADJACENT OR ADJOINING SURFACES WHERE REQUIRED. ALL SURFACES SHALL BE ALIGNED.

2. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE, PER DETAIL.

3. FIRE SAFE PENETRATIONS AT RATED PARTITIONS PER APPLICABLE UL ASSEMBLY.

4. ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHELL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED.

5. PROVIDE METAL STUD ANCHOR BRACKETS AS DETAILED AT LOCATIONS INCLUDING BUT NOT LIMITED TO: GRAB BARS, SHELVING, OVERHEAD CABINETS, SIGNAGE, TOILET ROOMS ACCESSORIES, ETC.

6. ALL WOOD TO BE FIRE RETARDANT TREATED IN ACCORDANCE WITH LOCAL CODES.

7. ALL ARCHITECTURAL WOODWORK, TO BE PREMIUM GRADE OR BETTER AS DEFINED BY THE ARCHITECTURAL WOOD WORK INSTITUTE OR WIC.

8. REFER TO A900 SERIES FOR COMMERCIAL DOOR SCHEDULE, FRAME AND HARDWARE TYPES.

9. REFER TO QD900 SERIES FOR DETENTION DOOR SCHEDULE, FRAME AND HARDWARE TYPES.

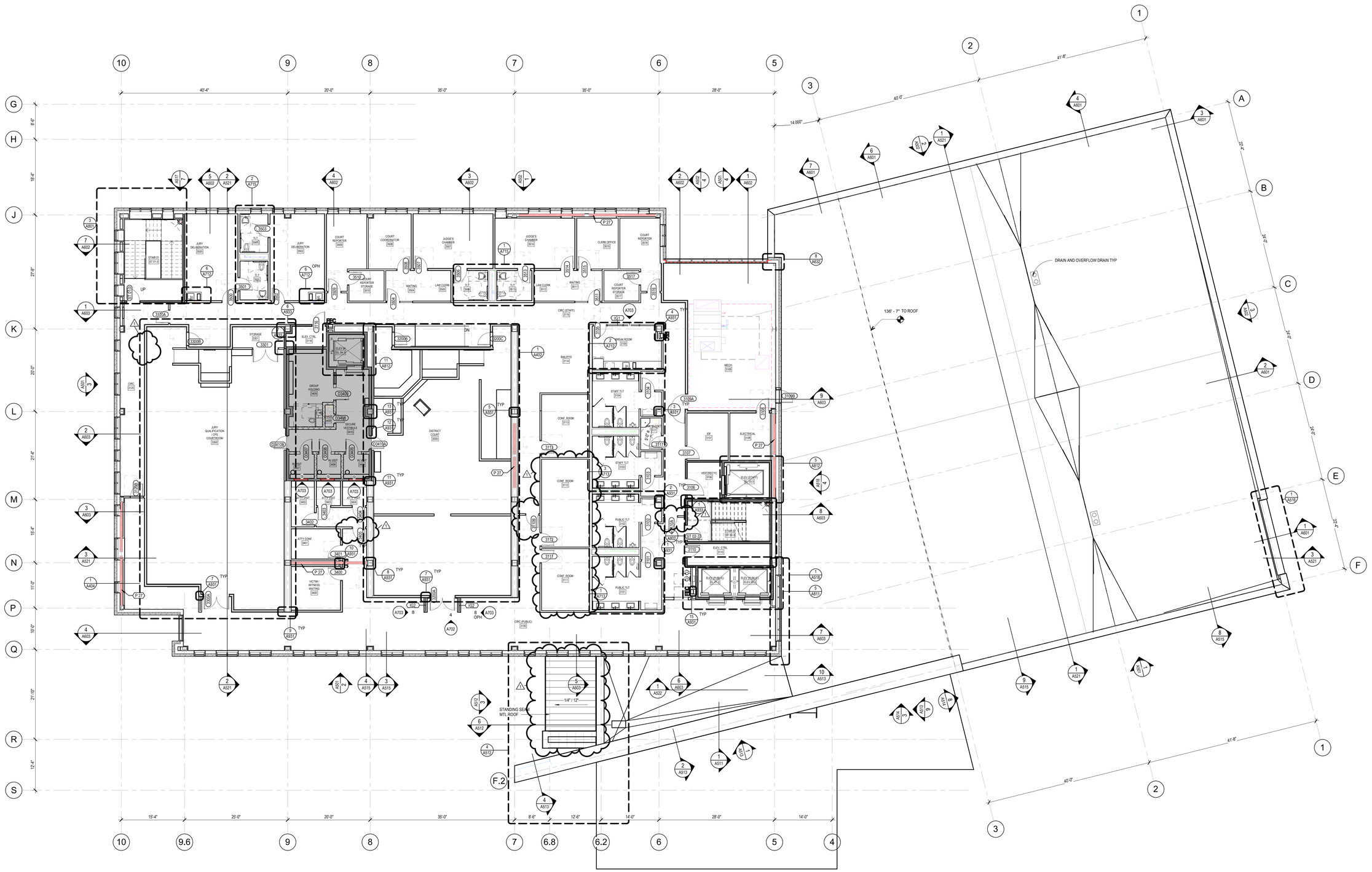
10. REFER TO A910 SERIES FOR PARTITION TYPES AND DETAILS

11. PROVIDE 1" RADIUS BULLNOSE CMU UP TO 1 COURSE ABOVE CEILING IN ALL DETENTION AREAS.

12. ALL PARTITIONS EXTEND UP TO STRUCTURAL DECK ABOVE U.O.N.

13. REFER TO FF&E PLANS FOR FURNITURE AND EQUIPMENT; COORDINATE POWER AND DATA LOCATIONS.

14. PROVIDE BLOCKING AS REQUIRED TO SUPPORT AV SCREENS. REFER TO AV DRAWINGS AND SPECIFICATIONS FOR DISPLAY AND MOUNTING SIZES.



1 FLOOR PLAN - LEVEL 3
1/8" = 1'-0"

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Project No: 20.09003.00

Sheet Title

FLOOR PLAN - LEVEL 3

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Sheet Number

A204

KEY NOTES - FLOOR PLAN

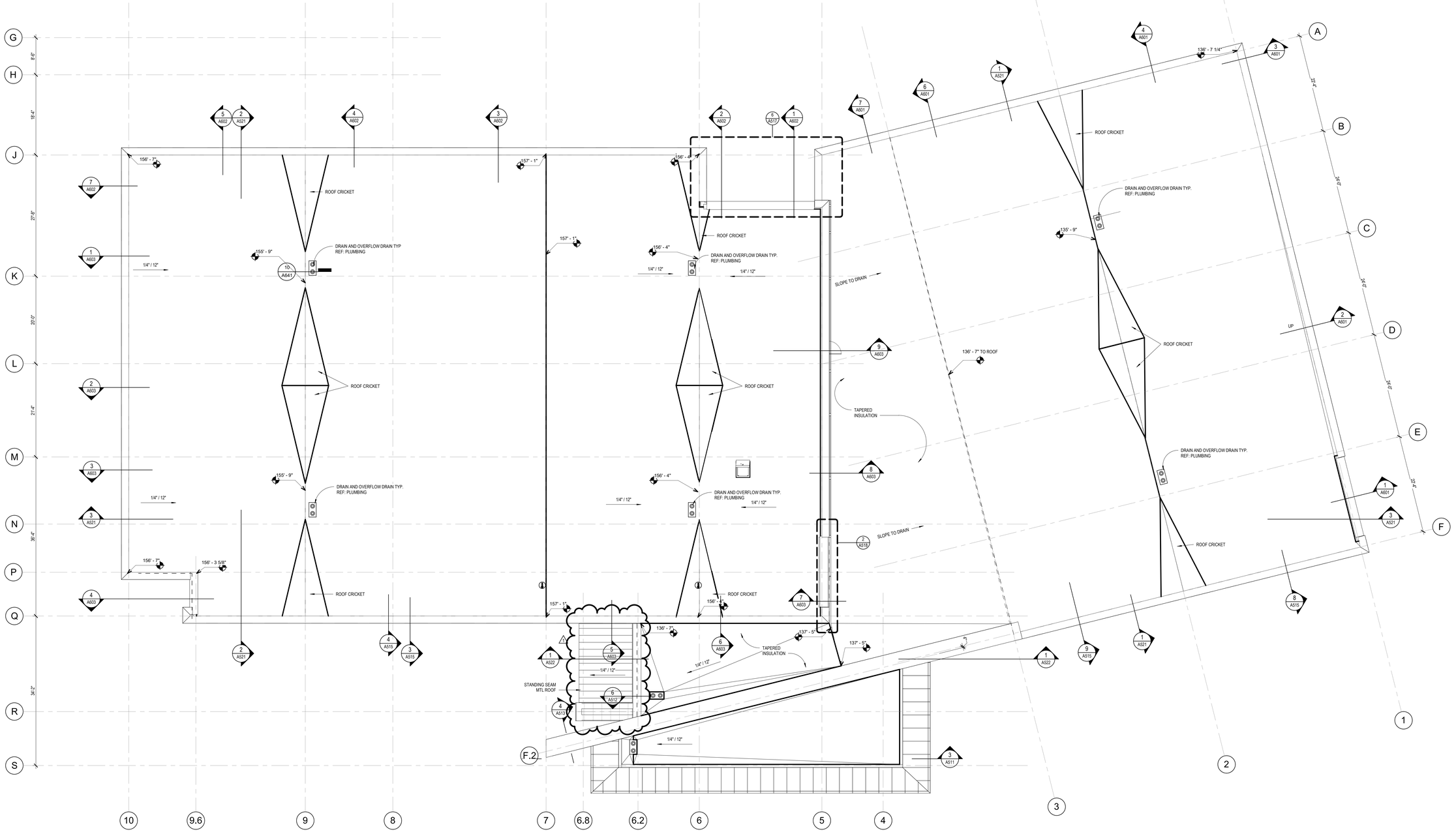
KEY	DESCRIPTION

ROOF PLAN LEGEND

- DAVIT TIE BACK
- ROOF DRAINS
- FLEXIBLE WALKWAY PADS

ROOF GENERAL NOTES

1. REFERENCE A641 FOR TYPICAL ROOF AND FLASHING DETAILS.
2. ROOF MUST HAVE A MINIMUM SLOPE OF 1/4 INCH PER FOOT.
3. ROOF INSULATION MUST HAVE A MINIMUM R-38 VALUE.
4. REFERENCE MEP DOCUMENTS FOR OTHER EQUIPMENT AND DEVICES.



1 ROOF
1/8" = 1'-0"

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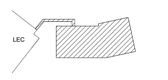

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Sheet Title
ROOF PLAN

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Sheet Number
A205

FINISH PLAN LEGEND AND SCHEDULE

PAINT

P 1	**GENERAL PAINT**	
	MFR:	SHERWIN WILLIAMS
	FINISH:	EGGSHELL
	COLOR:	SW 7014 EIDER WHITE
P 2	**NEUTRAL ACCENT PAINT**	
	MFR:	SHERWIN WILLIAMS
	FINISH:	EGGSHELL
	COLOR:	SW 7016 MINDFUL GRAY
P 3	**BLUE ACCENT PAINT**	
	MFR:	SHERWIN WILLIAMS
	FINISH:	EGGSHELL
	COLOR:	SW 7604 SMOKY BLUE
P 4	**CEILING PAINT**	
	MFR:	SHERWIN WILLIAMS
	FINISH:	FLAT
	COLOR:	SW 7014 EIDER WHITE
P 5	**RESTROOM PAINT**	
	MFR:	SHERWIN WILLIAMS
	FINISH:	SEMI-GLOSS
	COLOR:	SW 7014 EIDER WHITE

WALLCOVERING

PL 1	**PLASTIC LAMINATE**	
	MFR:	FORMICA
	STYLE:	9289H1-58 HARDSTOP GRADE H1
	COLOR:	WHITE TWILL
	FINISH:	MATTE
	SIZE:	SHEET SIZE - 4' X 10'
	THICKNESS:	2MM
	WHERE USED:	PUBLIC SPACE WAINSCOT
WC 1	**WALL PROTECTION PANEL**	
	MFR:	ACROVYN
	STYLE:	4000 WALL COVERING
	FINISH:	927 FOLKSTONE
	WHERE USED:	BOH WALL PROTECTION

FABRIC WRAPPED PANELS - UNBACKED

FWP 1	STRETCHWALL PANEL - ACOUSTIC FLAMMABILITY ASTM E-84 CLASS 1 OR A LIGHTFASTNESS AATCC-16 CLASS 4 MFR: STRETCHWALL OR APPROVED EQUAL STYLE/THICKNESS: CLASSIC / 1 INCH PANEL	
	FABRIC	
	MFR:	MAHARAM
	STYLE:	MESSENGER
	COLOR:	090 LONGSPUR
	NOTE:	UNBACKED

WINDOW TREATMENT

WT 1	**SHADES**	
	MFR:	MECHOSYSTEMS
	STYLE:	THERMOVEL DENSE BASKET WEAVE 1500 SERIES
	COLOR:	1519 SILVER BIRCH
	OPENNESS FACTOR:	3% OPEN
WT 2	**BLACKOUT SHADES**	
	MFR:	MECHOSYSTEMS
	STYLE:	EQUINOX BLACKOUT 0100 SERIES
	COLOR:	0118 WINTER
	OPENNESS FACTOR:	0% OPEN

FIBERGLASS REINFORCED PANEL

FRP 1	**FIBERGLASS REINFORCED PANEL**	
	MFR:	MARLITE
	STYLE:	STANDARD
	FINISH:	P151 LIGHT GREY
	WHERE USED:	MOP SINK; INSTALL TO 4' AFF

MILLWORK FINISHES

PL 2	**PLASTIC LAMINATE**	
	MFR:	FORMICA
	STYLE:	9312-NG
	COLOR:	PLANKED URBAN OAK
	FINISH:	MATTE
	URBAN USED:	RESTROOM VANITY
PL 3	**PLASTIC LAMINATE**	
	MFR:	FORMICA
	STYLE:	949
	COLOR:	WHITE
	FINISH:	MATTE
	URBAN USED:	BREAKROOM CABINETS
WD 1	**WOOD VENEER**	
	MFR:	ARCH VENEERS
	LAYUP:	BOOK MATCH
	SPECIES:	RIFT WHITE OAK
	FLITCH:	#5401-2365
	FINISH:	MATCH CONTROL SAMPLE
WD 2	**HARDWOOD**	
	MFR:	ARCH VENEERS
	LAYUP:	BOOK MATCH
	SPECIES:	RIFT WHITE OAK
	FLITCH:	#5401-2365
	FINISH:	MATCH CONTROL SAMPLE
ST 3	**SOLID SURFACE**	
	MFR:	LG HAUSYS
	STYLE:	HI-MACS
	COLOR:	M104 ROMA
	WHERE USED:	RESTROOM VANITY COUNTERTOPS
ST 4	**SOLID SURFACE**	
	MFR:	LG HAUSYS
	STYLE:	HI-MACS
	COLOR:	T018 CARINA
	WHERE USED:	COURTROOM COUNTERTOPS, WINDOW SILLS
ST 5	**SOLID SURFACE**	
	MFR:	LG HAUSYS
	STYLE:	HI-MACS
	COLOR:	5005 GRAY
	WHERE USED:	BREAKROOM COUNTERTOPS

STONE

ST 1	**LIMESTONE**	
	SPECIES:	CLASSIC GREY
	CUT:	
	FINISH:	SANDBLASTED
	SIZE:	16" X 36"
	WHERE USED:	FEATURE WALLS
ST 2	**LIMESTONE**	
	SPECIES:	CLASSIC GREY
	CUT:	
	FINISH:	SANDBLASTED
	SIZE:	16" X 36"
	WHERE USED:	FEATURE WALLS

TERRAZZO

TZ 1	**TERRAZZO**	
	MFR:	AMERICAN TERRAZZO
	FORMULA:	PLATE #85-B
TZ 1B	**TERRAZZO PRECAST BASE**	
	MFR:	AMERICAN TERRAZZO
	FORMULA:	PLATE #85-B
	HEIGHT:	6"H STRAIGHT
	THICKNESS:	5/8"
	GROUT:	TO MATCH BASE
TZ 2	**TERRAZZO**	
	MFR:	AMERICAN TERRAZZO
	FORMULA:	PLATE #85-A
TZ 2B	**TERRAZZO PRECAST BASE**	
	MFR:	AMERICAN TERRAZZO
	FORMULA:	PLATE #85-A
	HEIGHT:	6"H STRAIGHT
	THICKNESS:	5/8"
	GROUT:	TO MATCH BASE

CARPET

CPT 1	**CARPET TILE**	
	MFR:	SHAW CONTRACT
	STYLE:	CONSCIOUS TILE 5T377
	COLOR:	CANVAS 58585
	SIZE:	18" X 36"
	INSTALL:	MONOLITHIC
	WHERE USED:	COURT ROOMS
CPT 2	**CARPET TILE**	
	MFR:	SHAW CONTRACT
	STYLE:	PRESENT TILE ST379
	COLOR:	CANVAS 58585
	SIZE:	18" X 36"
	INSTALL:	MONOLITHIC
	WHERE USED:	JUDGE'S CHAMBERS, OPEN OFFICE
CPT 3	**CARPET TILE**	
	MFR:	SHAW CONTRACT
	STYLE:	SHELTER TILE ST240
	COLOR:	TRUFFLE 38760
	SIZE:	9" X 36"
	INSTALL:	MONOLITHIC
	WHERE USED:	ENCLOSED OFFICE, CONFERENCE ROOMS

CONCRETE FLOORING

CN 1	**SEALED CONCRETE**	
	DESCRIPTION:	REFERENCE SPECIFICATION SECTION 03 01 33

CERAMIC TILE

TL 1	**PORCELAIN FLOOR TILE**	
	MFR:	STONE SOURCE
	STYLE:	EVO-Q BACKFACE
	COLOR:	LIGHT GREY
	SIZE:	12 X 24
	THICKNESS:	3/8"
	WHERE USED:	ALL RESTROOM FLOORS
	TRIM PIECES:	SCHLUTER DILEX-AHK FOR COVED BASED
	GROUT:	TBD
TL 2	**PORCELAIN WALL TILE**	
	MFR:	STONE SOURCE
	STYLE:	EVO-Q BACKFACE
	COLOR:	WHITE
	SIZE:	12 X 24
	THICKNESS:	3/8"
	WHERE USED:	ALL RESTROOM WALLS UP TO 6'-0"AFF. FULL HEIGHT AT VANITY WET WALL ONLY.
	TRIM PIECES:	SCHLUTER SCHIENE FOR TILE TOP EDGE @ 6'-0"
	GROUT:	SCHLUTER QUADEC-K FOR OUTSIDE CORNERS. TBD
TL 3	**ACCENT WALL TILE**	
	MFR:	TILEBAR
	STYLE:	VECTOR REVERB TILE
	COLOR:	AZUL
	SIZE:	4" X 8"
	THICKNESS:	3/8"
	WHERE USED:	BREAKROOM BACKSPLASH
	GROUT:	TO MATCH TILE
TL 4	**ACCENT WALL TILE**	
	MFR:	FIRECLAY
	STYLE:	RECYCLED
	COLOR:	NAUTICAL
	SIZE:	2" X 4"
	THICKNESS:	3/8"
	WHERE USED:	BREAKROOM BACKSPLASH
	GROUT:	TO MATCH TILE
TL 5	**FIELD FLOOR TILE**	
	MFR:	CONCEPT SURFACES
	STYLE:	APOLLO
	COLOR:	GRIGIO
	SIZE:	24" X 48"
	THICKNESS:	3/8"
	WHERE USED:	PUBLIC CORRIDOR LVLS GROUND,2, AND 3
	GROUT:	TO MATCH TILE
TL 6	**TILE WALL BASE**	
	MFR:	CONCEPT SURFACES
	STYLE:	APOLLO
	COLOR:	GRIGIO
	SIZE:	6" X 48"
	THICKNESS:	3/8"
	WHERE USED:	PUBLIC CORRIDOR LVLS GROUND,2, AND 3
	GROUT:	TO MATCH TILE
	SIDEMARK:	ALIGN SEAMS WITH FLOOR TILE

RESILIENT FLOORING

RF 1	**RESILIENT TILE**	
	MFR:	ARMSTRONG
	STYLE:	EXCELON SDT
	COLOR:	ARMOR GRAY
	SIZE:	12 X 12
	THICKNESS:	1/8", WEAR LAYER - 1/8"
	NOTE:	FOLLOW MANUFACTURERS REQUIRMENTS FOR GROUNDING UNDER TILE
RF 2	**RESILIENT TILE**	
	MFR:	MOHAWK
	STYLE:	LINEATE C0089
	COLOR:	988 STRIATED
	SIZE:	9" X 59"
	INSTALL:	ASHLAR
	THICKNESS:	5 MM
RF 3	**RESILIENT TILE**	
	MFR:	MOHAWK
	STYLE:	URBAN NATIVE WOOD C0083
	COLOR:	231 VINTAGE
	SIZE:	6" X 48"
	THICKNESS:	2.5 MM

RESILIENT BASE

RS 1	**RESILIENT BASE**	
	MFR:	ROPPE OR EQUAL
	COLOR:	174 SMOKE
	TYPE:	RUBBER
	SIZE:	4"
	STYLE:	STRAIGHT
	WHERE USED:	CARPET LOCATIONS
RS 2	**RESILIENT BASE**	
	MFR:	ROPPE OR EQUAL
	COLOR:	174 SMOKE
	TYPE:	RUBBER
	SIZE:	4"
	STYLE:	COVED
	WHERE USED:	- RESILIENT FLOOR LOCATIONS - CONCRETE FLOOR LOCATIONS W/PAINTED WALLS

EPOXY FLOORING/ WALL

EF 1	**EPOXY FLOOR**	
	MFR:	STONHARD
	COLOR:	COLOR TO MATCH ADJACENT WALL COLOR
	PAINT TYPE:	STONSHIELD HRI, W/ 4" INTEGRAL COVE BASE
	SHEEN:	
	REMARKS:	W/MIN. 3/16" THICK, EPOXY MORTAR WITH QUARTZ BROADCAST. PROVIDE EASED EDGE WHERE FLOORING MEETS SEALED CONCRETE.
	WHERE USED:	HOLDING RESTROOMS
EW 1	**EPOXY WALL**	
	MFR:	STONHARD
	COLOR:	COLOR TO MATCH ADJACENT WALL COLOR
	PAINT TYPE:	STONSHIELD HRI, W/ 4" INTEGRAL COVE BASE
	SHEEN:	
	REMARKS:	W/MIN. 3/16" THICK, EPOXY MORTAR WITH QUARTZ BROADCAST
	WHERE USED:	HOLDING RESTROOMS

CORNER GUARD

CG 1	**CORNER GUARD**	
	MFR:	ROCKWOOD 290
	TYPE:	STAINLESS STEEL CORNER GUARD
	SIZE:	2" X 2" X 40"H START CORNER GUARD ABOVE WALL BASE, 4" AFF.
	THICKNESS:	.05"
	MOUNTING:	SELF-ADHESIVE
	WHERE USED:	BOH CORRIDORS

KEY NOTES - FINISH PLAN

KEY	DESCRIPTION

FINISH PLAN ANNOTATIONS

PLAN & ELEVATION SYMBOLS:

- KEYNOTE
- X / X — FINISH TAG
- FLOOR FINISH TRANSITION
- WOOD GRAIN OR FLOOR PATTERN DIRECTION
- GYP BD REVEAL LOCATIONS ON WALL SURFACES IN PUBLIC CORRIDORS. BASE REVEAL & 3' REVEAL. PL-1 LOCATIONS UP TO 3' AFF
- WC-1 LOCATIONS UP TO 3' AFF

FINISH PLAN GENERAL NOTES

1. ALL WALL PAINT TO BE P-1, UNO.
2. ALL GYP BOARD CEILING PAINT TO BE P-4, UNO.
3. FABRIC WRAPPED PANELS SHALL BE INSTALLED USING STRETCH WALL SYSTEM. SUBMIT FOR ARCHITECT'S APPROVAL PRIOR TO ORDERING.
4. ALL CHASE ROOMS TO HAVE NO FINISHES AND CONCRETE FLOORS.
5. SEALED CONCRETE ON DETENTION AREA FLOORS, UNO.
6. RF-1 STATIC DISSIPATIVE TILE IN ALL AV-IT ROOMS, UNO.
7. ALL MECHANICAL ROOMS, ELECTRICAL, IT AND STORAGE TYPE ROOMS ARE TO HAVE PAINTED WALLS AND RUBBER BASE.
8. ALL EXIT STAIRS: WALLS AND RAILINGS TO BE PAINTED P-X. PROVIDE XX-X AT LEVEL 1 AND EACH LANDING. PROVIDE NOSINGS AT EACH STEP AND LANDING. FLOORS/ LANDINGS TO BE SEALED CONCRETE.
9. WALL BASE TO MATCH PAINTED WALL IN CARPETED AREAS, UNO.
10. REFER TO SHEET A942 FOR FLOOR MATERIAL TRANSITION DETAILS.
11. DETENTION HM DOORS AND DOOR FRAMES TO BE PAINTED P-6. REFER TO FLOOR PLANS FOR DOORS WITH A 'D' IN FRONT OF THE DOOR NUMBER FOR THESE DOOR TYPES.
12. DENTENTION HM WINDOW FRAMES TO BE PAINTED P-XX. REFER TO FLOOR PLANS FOR WINDOWS WITH A 'D' IN FRONT OF THE WINDOW NUMBER FOR THESE WINDOW TYPES.
13. REFER TO FINISH PLANS AND ELEVATIONS FOR PUBLIC CORRIDOR GYP BD WALL REVEAL LOCATIONS. REFER TO SHEET A943 FOR PUBLIC CORRIDOR GYP BD WALL REVEAL DETAILS.
14. UL FIRE RESISTANT AND FIRE RESISTIVE TESTED ASSEMBLIES SHALL BE MAINTAIN ON ALL FIRE RATED PARTITIONS. DEVIATIONS FROM TESTED ASSEMBLIES ARE NOT ACCEPTABLE.
15. INSTALL PL-1 WAINSCOT ON ALL PUBLIC CORRIDOR WALLS UP TO 3' AFF, UNO.

1 FINISH PLAN - LEVEL 1
1/8" = 1'-0"

2021-01-15 9:00:16 AM

THE STATE OF TEXAS — KAUFMAN COUNTY

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

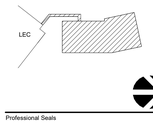
Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

FINISH PLAN - LEVEL 1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

A212

FINISH PLAN LEGEND AND SCHEDULE

PAINT

P 1	GENERAL PAINT	
	MFR:	SHERWIN WILLIAMS
	FINISH:	EGGSHELL
	COLOR:	SW 7014 EIDER WHITE
P 2	NEUTRAL ACCENT PAINT	
	MFR:	SHERWIN WILLIAMS
	FINISH:	EGGSHELL
	COLOR:	SW 7016 MINDFUL GRAY
P 3	BLUE ACCENT PAINT	
	MFR:	SHERWIN WILLIAMS
	FINISH:	EGGSHELL
	COLOR:	SW 7604 SMOKY BLUE
P 4	CEILING PAINT	
	MFR:	SHERWIN WILLIAMS
	FINISH:	FLAT
	COLOR:	SW 7014 EIDER WHITE
P 5	RESTROOM PAINT	
	MFR:	SHERWIN WILLIAMS
	FINISH:	SEMI-GLOSS
	COLOR:	SW 7014 EIDER WHITE

WALLCOVERING

PL 1	PLASTIC LAMINATE	
	MFR:	FORMICA
	STYLE:	9289H1-58 HARDSTOP GRADE H1
	COLOR:	WHITE TWILL
	FINISH:	MATTE
	SIZE:	SHEET SIZE - 4' X 10'
	THICKNESS:	2MM
	WHERE USED:	PUBLIC SPACE WAINSCOT
WC 1	WALL PROTECTION PANEL	
	MFR:	ACROVYN
	STYLE:	4000 WALL COVERING
	FINISH:	927 FOLKSTONE
	WHERE USED:	BOH WALL PROTECTION

FABRIC WRAPPED PANELS - UNBACKED

FWP 1	STRETCHWALL PANEL - ACOUSTIC FLAMMABILITY ASTM E-84 CLASS 1 OR A LIGHTFASTNESS AATCC-16 CLASS 4 MFR: STRETCHWALL OR APPROVED EQUAL STYLE/THICKNESS: CLASSIC / 1 INCH PANEL	
	FABRIC	
	MFR:	MAHARAM
	STYLE:	MESSENGER
	COLOR:	090 LONGSPUR
	NOTE:	UNBACKED

WINDOW TREATMENT

WT 1	SHADES	
	MFR:	MECHOSYSTEMS
	STYLE:	THERMOVEIL DENISE BASKET WEAVE 1500 SERIES
	COLOR:	1519 SILVER BIRCH
	OPENNESS FACTOR:	3% OPEN
WT 2	BLACKOUT SHADES	
	MFR:	MECHOSYSTEMS
	STYLE:	EQUINOX BLACKOUT 0100 SERIES
	COLOR:	0118 WINTER
	OPENNESS FACTOR:	0% OPEN

FIBERGLASS REINFORCED PANEL

FRP 1	FIBERGLASS REINFORCED PANEL	
	MFR:	MARLITE
	STYLE:	STANDARD
	FINISH:	P151 LIGHT GREY
	WHERE USED:	MOP SINK; INSTALL TO 4' AFF

MILLWORK FINISHES

PL 2	PLASTIC LAMINATE	
	MFR:	FORMICA
	STYLE:	9312-NG
	COLOR:	PLANKED URBAN OAK
	FINISH:	MATTE
	URBAN USED:	RESTROOM VANITY
PL 3	PLASTIC LAMINATE	
	MFR:	FORMICA
	STYLE:	949
	COLOR:	WHITE
	FINISH:	MATTE
	URBAN USED:	BREAKROOM CABINETS
WD 1	WOOD VENEER	
	MFR:	ARCH VENEERS
	LAYUP:	BOOK MATCH
	SPECIES:	RIFT WHITE OAK
	FLITCH:	#5401-2365
	FINISH:	MATCH CONTROL SAMPLE
WD 2	HARDWOOD	
	MFR:	ARCH VENEERS
	LAYUP:	BOOK MATCH
	SPECIES:	RIFT WHITE OAK
	FLITCH:	#5401-2365
	FINISH:	MATCH CONTROL SAMPLE
ST 3	SOLID SURFACE	
	MFR:	LG HAUSYS
	STYLE:	HI-MACS
	COLOR:	M104 ROMA
	WHERE USED:	RESTROOM VANITY COUNTERTOPS
ST 4	SOLID SURFACE	
	MFR:	LG HAUSYS
	STYLE:	HI-MACS
	COLOR:	T018 CARINA
	WHERE USED:	COURTROOM COUNTERTOPS, WINDOW SILLS
ST 5	SOLID SURFACE	
	MFR:	LG HAUSYS
	STYLE:	HI-MACS
	COLOR:	5005 GRAY
	WHERE USED:	BREAKROOM COUNTERTOPS

STONE

ST 1	LIMESTONE	
	SPECIES:	CLASSIC GREY
	CUT:	
	FINISH:	SANDBLASTED
	SIZE:	16" X 36"
	WHERE USED:	FEATURE WALLS
ST 2	LIMESTONE	
	SPECIES:	CLASSIC GREY
	CUT:	
	FINISH:	SANDBLASTED
	SIZE:	16" X 36"
	WHERE USED:	FEATURE WALLS

TERRAZZO

TZ 1	TERRAZZO	
	MFR:	AMERICAN TERRAZZO
	FORMULA:	PLATE #85-B
TZ 1B	TERRAZZO PRECAST BASE	
	MFR:	AMERICAN TERRAZZO
	FORMULA:	PLATE #85-B
	HEIGHT:	6"H STRAIGHT
	THICKNESS:	5/8"
	GROUT:	TO MATCH BASE
TZ 2	TERRAZZO	
	MFR:	AMERICAN TERRAZZO
	FORMULA:	PLATE #85-A
TZ 2B	TERRAZZO PRECAST BASE	
	MFR:	AMERICAN TERRAZZO
	FORMULA:	PLATE #85-A
	HEIGHT:	6"H STRAIGHT
	THICKNESS:	5/8"
	GROUT:	TO MATCH BASE

CARPET

CPT 1	CARPET TILE	
	MFR:	SHAW CONTRACT
	STYLE:	CONSCIOUS TILE ST377
	COLOR:	CANVAS 58585
	SIZE:	18" X 36"
	INSTALL:	MONOLITHIC
	WHERE USED:	COURT ROOMS
CPT 2	CARPET TILE	
	MFR:	SHAW CONTRACT
	STYLE:	PRESENT TILE ST379
	COLOR:	CANVAS 58585
	SIZE:	18" X 36"
	INSTALL:	MONOLITHIC
	WHERE USED:	JUDGE'S CHAMBERS, OPEN OFFICE
CPT 3	CARPET TILE	
	MFR:	SHAW CONTRACT
	STYLE:	SHELTER TILE ST240
	COLOR:	TRUFFLE 38760
	SIZE:	9" X 36"
	INSTALL:	MONOLITHIC
	WHERE USED:	ENCLOSED OFFICE, CONFERENCE ROOMS

CONCRETE FLOORING

CN 1	SEALED CONCRETE	
	DESCRIPTION:	REFERENCE SPECIFICATION SECTION 03 01 33

CERAMIC TILE

TL 1	PORCELAIN FLOOR TILE	
	MFR:	STONE SOURCE
	STYLE:	EVO-Q BACKFACE
	COLOR:	LIGHT GREY
	SIZE:	12 X 24
	THICKNESS:	3/8"
	WHERE USED:	ALL RESTROOM FLOORS
	TRIM PIECES:	SCHLUTER DILEX-AHK FOR COVED BASED
	GROUT:	TBD
TL 2	PORCELAIN WALL TILE	
	MFR:	STONE SOURCE
	STYLE:	EVO-Q BACKFACE
	COLOR:	WHITE
	SIZE:	12 X 24
	THICKNESS:	3/8"
	WHERE USED:	ALL RESTROOM WALLS UP TO 6'-0"AFF. FULL HEIGHT AT VANITY WET WALL ONLY.
	TRIM PIECES:	SCHLUTER SCHIENE FOR TILE TOP EDGE @ 6'-0"
		SCHLUTER QUADEC-K FOR OUTSIDE CORNERS.
	GROUT:	TBD
TL 3	ACCENT WALL TILE	
	MFR:	TILEBAR
	STYLE:	VECTOR REVERB TILE
	COLOR:	AZUL
	SIZE:	4" X 8"
	THICKNESS:	3/8"
	WHERE USED:	BREAKROOM BACKSPLASH
	GROUT:	TO MATCH TILE
TL 4	ACCENT WALL TILE	
	MFR:	FIRECLAY
	STYLE:	RECYCLED
	COLOR:	NAUTICAL
	SIZE:	2" X 4"
	THICKNESS:	3/8"
	WHERE USED:	BREAKROOM BACKSPLASH
	GROUT:	TO MATCH TILE
TL 5	FIELD FLOOR TILE	
	MFR:	CONCEPT SURFACES
	STYLE:	APOLLO
	COLOR:	GRIGIO
	SIZE:	24" X 48"
	THICKNESS:	3/8"
	WHERE USED:	PUBLIC CORRIDOR LVLS GROUND,2, AND 3
	GROUT:	TO MATCH TILE
TL 6	TILE WALL BASE	
	MFR:	CONCEPT SURFACES
	STYLE:	APOLLO
	COLOR:	GRIGIO
	SIZE:	6" X 48"
	THICKNESS:	3/8"
	WHERE USED:	PUBLIC CORRIDOR LVLS GROUND,2, AND 3
	GROUT:	TO MATCH TILE
	SIDEMARK:	ALIGN SEAMS WITH FLOOR TILE

RESILIENT FLOORING

RF 1	RESILIENT TILE	
	MFR:	ARMSTRONG
	STYLE:	EXCELON SDT
	COLOR:	ARMOR GRAY
	SIZE:	12 X 12
	THICKNESS:	1/8", WEAR LAYER - 1/8"
	NOTE:	FOLLOW MANUFACTURERS REQUIRMENTS FOR GROUNDING UNDER TILE
RF 2	RESILIENT TILE	
	MFR:	MOHAWK
	STYLE:	LINEATE C0089
	COLOR:	988 STRIATED
	SIZE:	9" X 59"
	INSTALL:	ASHLAR
	THICKNESS:	5 MM
RF 3	RESILIENT TILE	
	MFR:	MOHAWK
	STYLE:	URBAN NATIVE WOOD C0083
	COLOR:	231 VINTAGE
	SIZE:	6" X 48"
	THICKNESS:	2.5 MM
RS 1	RESILIENT BASE	
	MFR:	ROPPE OR EQUAL
	COLOR:	174 SMOKE
	TYPE:	RUBBER
	SIZE:	4"
	STYLE:	STRAIGHT
	WHERE USED:	CARPET LOCATIONS
RS 2	RESILIENT BASE	
	MFR:	ROPPE OR EQUAL
	COLOR:	174 SMOKE
	TYPE:	RUBBER
	SIZE:	4"
	STYLE:	COVED
	WHERE USED:	- RESILIENT FLOOR LOCATIONS - CONCRETE FLOOR LOCATIONS W/PAINTED WALLS

EPOXY FLOORING/ WALL

EF 1	EPOXY FLOOR	
	MFR:	STONHARD
	COLOR:	COLOR TO MATCH ADJACENT WALL COLOR
	PAINT TYPE:	STONSHIELD HR, W/ 4" INTEGRAL COVE BASE
	SHEEN:	
	REMARKS:	W/MIN. 3/16" THICK, EPOXY MORTAR WITH QUARTZ BROADCAST. PROVIDE EASED EDGE WHERE FLOORING MEETS SEALED CONCRETE.
	WHERE USED:	HOLDING RESTROOMS
EW 1	EPOXY WALL	
	MFR:	STONHARD
	COLOR:	COLOR TO MATCH ADJACENT WALL COLOR
	PAINT TYPE:	STONSHIELD HR, W/ 4" INTEGRAL COVE BASE
	SHEEN:	
	REMARKS:	W/MIN. 3/16" THICK, EPOXY MORTAR WITH QUARTZ BROADCAST
	WHERE USED:	HOLDING RESTROOMS

CORNER GUARD

CG 1	CORNER GUARD	
	MFR:	ROCKWOOD 290
	TYPE:	STAINLESS STEEL CORNER GUARD
	SIZE:	2" X 2" X 40"H START CORNER GUARD ABOVE WALL BASE, 4" AFF.
	THICKNESS:	.05"
	MOUNTING:	SELF-ADHESIVE
	WHERE USED:	BOH CORRIDORS

KEY NOTES - FINISH PLAN

KEY	DESCRIPTION

FINISH PLAN ANNOTATIONS

PLAN & ELEVATION SYMBOLS:

- KEYNOTE
- X / X — FINISH TAG
- FLOOR FINISH TRANSITION
- WOOD GRAIN OR FLOOR PATTERN DIRECTION
- GYP BD REVEAL LOCATIONS ON WALL SURFACES IN PUBLIC CORRIDORS. BASE REVEAL & 3" REVEAL; PL-1 LOCATIONS UP TO 3' AFF
- WC-1 LOCATIONS UP TO 3' AFF

FINISH PLAN GENERAL NOTES

1. ALL WALL PAINT TO BE P-1, UNO.
2. ALL GYP BOARD CEILING PAINT TO BE P-4, UNO.
3. FABRIC WRAPPED PANELS SHALL BE INSTALLED USING STRETCH WALL SYSTEM. SUBMIT FOR ARCHITECT'S APPROVAL PRIOR TO ORDERING.
4. ALL CHASE ROOMS TO HAVE NO FINISHES AND CONCRETE FLOORS.
5. SEALED CONCRETE ON DETENTION AREA FLOORS, UNO.
6. RF-1 STATIC DISSIPATIVE TILE IN ALL AV-/IT ROOMS, UNO.
7. ALL MECHANICAL ROOMS, ELECTRICAL, IT AND STORAGE TYPE ROOMS ARE TO HAVE PAINTED WALLS AND RUBBER BASE.
8. ALL EXIT STAIRS: WALLS AND RAILINGS TO BE PAINTED P-X. PROVIDE XX-X AT LEVEL 1 AND EACH LANDING. PROVIDE NOSINGS AT EACH STEP AND LANDING. FLOORS/ LANDINGS TO BE SEALED CONCRETE.
9. WALL BASE TO MATCH PAINTED WALL IN CARPETED AREAS, UNO.
10. REFER TO SHEET A942 FOR FLOOR MATERIAL TRANSITION DETAILS.
11. DETENTION HM DOORS AND DOOR FRAMES TO BE PAINTED P-6. REFER TO FLOOR PLANS FOR DOORS WITH A 'D' IN FRONT OF THE DOOR NUMBER FOR THESE DOOR TYPES.
12. DENTENTION HM WINDOW FRAMES TO BE PAINTED P-XX. REFER TO FLOOR PLANS FOR WINDOWS WITH A 'D' IN FRONT OF THE WINDOW NUMBER FOR THESE WINDOW TYPES.
13. REFER TO FINISH PLANS AND ELEVATIONS FOR PUBLIC CORRIDOR GYP BD WALL REVEAL LOCATIONS. REFER TO SHEET A943 FOR PUBLIC CORRIDOR GYP BD WALL REVEAL DETAILS.
14. UL FIRE RESISTANT AND FIRE RESISTIVE TESTED ASSEMBLIES SHALL BE MAINTAIN ON ALL FIRE RATED PARTITIONS. DEVIATIONS FROM TESTED ASSEMBLIES ARE NOT ACCEPTABLE.
15. INSTALL PL-1 WAINSCOT ON ALL PUBLIC CORRIDOR WALLS UP TO 3' AFF, UNO.

1 FINISH PLAN - LEVEL 2
1/8" = 1'-0"

2021-01-15 9:00:24 AM

THE STATE OF TEXAS — KAUFMAN COUNTY

KAUFMAN COUNTY
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KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
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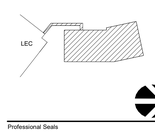
Key Plan



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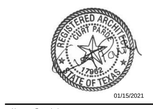

01/15/2021

No.	Description	Date
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	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

FINISH PLAN - LEVEL 2

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

A213

FINISH PLAN LEGEND AND SCHEDULE

PAINT

P-1 GENERAL PAINT
MFR: SHERWIN WILLIAMS
FINISH: EGGSHELL
COLOR: SW 7014 EIDER WHITE

P-2 NEUTRAL ACCENT PAINT
MFR: SHERWIN WILLIAMS
FINISH: EGGSHELL
COLOR: SW 7016 MINDFUL GRAY

P-3 BLUE ACCENT PAINT
MFR: SHERWIN WILLIAMS
FINISH: EGGSHELL
COLOR: SW 7604 SMOKY BLUE

P-4 CEILING PAINT
MFR: SHERWIN WILLIAMS
FINISH: FLAT
COLOR: SW 7014 EIDER WHITE

P-5 RESTROOM PAINT
MFR: SHERWIN WILLIAMS
FINISH: SEMI-GLOSS
COLOR: SW 7014 EIDER WHITE

WALLCOVERING

PL-1 PLASTIC LAMINATE
MFR: FORMICA
STYLE: 9285H1-58 HARDSTOP GRADE H1
COLOR: WHITE TWILL
FINISH: MATTE
SIZE: SHEET SIZE - 4' X 10'
THICKNESS: 2MM
WHERE USED: PUBLIC SPACE WAINSCOT

WC-1 WALL PROTECTION PANEL
MFR: ACROVYN
STYLE: 4000 WALL COVERING
FINISH: 927 FOLKSTONE
WHERE USED: BOH WALL PROTECTION

FABRIC WRAPPED PANELS - UNBACKED

FWP-1
STRETCHWALL PANEL - ACOUSTIC
FLAMMABILITY ASTM E-84 CLASS 1 OR A
LIGHTFASTNESS AATCC-16 CLASS 4
MFR: STRETCHWALL OR APPROVED EQUAL
STYLE/THICKNESS: CLASSIC / 1 INCH PANEL

FABRIC
MFR: MAHARAM
STYLE: MESSENGER
COLOR: 090 LONGSPUR
NOTE: UNBACKED

WINDOW TREATMENT

WT-1 SHADES
MFR: MECHOSYSTEMS
STYLE: THERMOVEIL DENSE BASKET WEAVE 1500 SERIES
COLOR: 1519 SILVER BIRCH
OPENNESS FACTOR: 3% OPEN

WT-2 BLACKOUT SHADES
MFR: MECHOSYSTEMS
STYLE: EQUINOX BLACKOUT 0100 SERIES
COLOR: 0118 WINTER
OPENNESS FACTOR: 0% OPEN

FIBERGLASS REINFORCED PANEL

FRP-1 FIBERGLASS REINFORCED PANEL
MFR: MARLITE
STYLE: STANDARD
FINISH: P151 LIGHT GREY
WHERE USED: MOP SINK; INSTALL TO 4' AFF

MILLWORK FINISHES

PL-2 PLASTIC LAMINATE
MFR: FORMICA
STYLE: 9312-NG
COLOR: PLANKED URBAN OAK
FINISH: MATTE
URBAN USED: RESTROOM VANITY

PL-3 PLASTIC LAMINATE
MFR: FORMICA
STYLE: 949
COLOR: WHITE
FINISH: MATTE
URBAN USED: BREAKROOM CABINETS

WD-1 WOOD VENEER
MFR: ARCH VENEERS
LAYUP: BOOK MATCH
SPECIES: RIFT WHITE OAK
FLITCH: #5401-2365
FINISH: MATCH CONTROL SAMPLE

WD-2 HARDWOOD
MFR: ARCH VENEERS
LAYUP: BOOK MATCH
SPECIES: RIFT WHITE OAK
FLITCH: #5401-2365
FINISH: MATCH CONTROL SAMPLE

ST-3 SOLID SURFACE
MFR: LG HAUSYS
STYLE: HI-MACS
COLOR: M104 ROMA
WHERE USED: RESTROOM VANITY COUNTERTOPS

ST-4 SOLID SURFACE
MFR: LG HAUSYS
STYLE: HI-MACS
COLOR: T018 CARINA
WHERE USED: COURTROOM COUNTERTOPS, WINDOW SILLS

ST-5 SOLID SURFACE
MFR: LG HAUSYS
STYLE: HI-MACS
COLOR: 5005 GRAY
WHERE USED: BREAKROOM COUNTERTOPS

STONE

ST-1 LIMESTONE
SPECIES: CLASSIC GREY
CUT:
FINISH: SANDBLASTED
SIZE: 16" X 36"
WHERE USED: FEATURE WALLS

ST-2 LIMESTONE
SPECIES: CLASSIC GREY
CUT:
FINISH: SANDBLASTED
SIZE: 16" X 36"
WHERE USED: FEATURE WALLS

TERRAZZO

TZ-1 TERRAZZO
MFR: AMERICAN TERRAZZO
FORMULA: PLATE #85-B

TZ-1B TERRAZZO PRECAST BASE
MFR: AMERICAN TERRAZZO
FORMULA: PLATE #85-B
HEIGHT: 6"H STRAIGHT
THICKNESS: 5/8"
GROUT: TO MATCH BASE

TZ-2 TERRAZZO
MFR: AMERICAN TERRAZZO
FORMULA: PLATE #85-A

TZ-2B TERRAZZO PRECAST BASE
MFR: AMERICAN TERRAZZO
FORMULA: PLATE #85-A
HEIGHT: 6"H STRAIGHT
THICKNESS: 5/8"
GROUT: TO MATCH BASE

CARPET

CPT-1 CARPET TILE
MFR: SHAW CONTRACT
STYLE: CONSCIOUS TILE 5T377
COLOR: CANVAS 58585
SIZE: 18" X 36"
INSTALL: MONOLITHIC
WHERE USED: COURT ROOMS

CPT-2 CARPET TILE
MFR: SHAW CONTRACT
STYLE: PRESENT TILE 5T379
COLOR: CANVAS 58585
SIZE: 18" X 36"
INSTALL: MONOLITHIC
WHERE USED: JUDGE'S CHAMBERS, OPEN OFFICE

CPT-3 CARPET TILE
MFR: SHAW CONTRACT
STYLE: SHELTER TILE 5T240
COLOR: TRUFFLE 38760
SIZE: 9" X 36"
INSTALL: MONOLITHIC
WHERE USED: ENCLOSED OFFICE, CONFERENCE ROOMS

CONCRETE FLOORING

CN-1 SEALED CONCRETE
DESCRIPTION: REFERENCE SPECIFICATION SECTION 03 01 33

CERAMIC TILE

TL-1 PORCELAIN FLOOR TILE
MFR: STONE SOURCE
STYLE: EVO-Q BACKFACE
COLOR: LIGHT GREY
SIZE: 12 X 24
THICKNESS: 3/8"
WHERE USED: ALL RESTROOM FLOORS
TRIM PIECES: SCHULTER DILEX-AHK FOR COVED BASED
GROUT: TBD

TL-2 PORCELAIN WALL TILE
MFR: STONE SOURCE
STYLE: EVO-Q BACKFACE
COLOR: WHITE
SIZE: 12 X 24
THICKNESS: 3/8"
WHERE USED: ALL RESTROOM WALLS UP TO 6'-0"AFF, FULL HEIGHT AT VANITY WET WALL ONLY.
TRIM PIECES: SCHLUTER SCHIENE FOR TILE TOP EDGE @ 6'-0". SCHLUTER QUADEC-K FOR OUTSIDE CORNERS.
GROUT: TBD

TL-3 ACCENT WALL TILE
MFR: TILEBAR
STYLE: VECTOR REVERB TILE
COLOR: AZUL
SIZE: 4" X 8"
THICKNESS: 3/8"
WHERE USED: BREAKROOM BACKSPLASH
GROUT: TO MATCH TILE

TL-4 ACCENT WALL TILE
MFR: FIRECLAY
STYLE: RECYCLED
COLOR: NAUTICAL
SIZE: 2" X 4"
THICKNESS: 3/8"
WHERE USED: BREAKROOM BACKSPLASH
GROUT: TO MATCH TILE

TL-5 FIELD FLOOR TILE
MFR: CONCEPT SURFACES
STYLE: APOLLO
COLOR: GRIGIO
SIZE: 24" X 48"
THICKNESS: 3/8"
WHERE USED: PUBLIC CORRIDOR LVLS GROUND,2, AND 3
GROUT: TO MATCH TILE

TL-6 TILE WALL BASE
MFR: CONCEPT SURFACES
STYLE: APOLLO
COLOR: GRIGIO
SIZE: 6" X 48"
THICKNESS: 3/8"
WHERE USED: PUBLIC CORRIDOR LVLS GROUND,2, AND 3
GROUT: TO MATCH TILE
SIDEMARK: ALIGN SEAMS WITH FLOOR TILE

RESILIENT FLOORING

RF-1 RESILIENT TILE
MFR: ARMSTRONG
STYLE: EXCELON SDT
COLOR: ARMOR GRAY
SIZE: 12 X 12
THICKNESS: 1/8"; WEAR LAYER - 1/8"
NOTE: FOLLOW MANUFACTURERS REQUIRMENTS FOR GROUNDING UNDER TILE

RF-2 RESILIENT TILE
MFR: MOHAWK
STYLE: LINEATE C0089
COLOR: 988 STRIATED
SIZE: 9" X 59"
INSTALL: ASHLAR
THICKNESS: 5 MM

RF-3 RESILIENT TILE
MFR: MOHAWK
STYLE: URBAN NATIVE WOOD C0083
COLOR: 231 VINTAGE
SIZE: 8" X 48"
THICKNESS: 2.5 MM

RB-1 RESILIENT BASE
MFR: ROPPE OR EQUAL
COLOR: 174 SMOKE
TYPE: RUBBER
SIZE: 4"
STYLE: STRAIGHT
WHERE USED: CARPET LOCATIONS

RB-2 RESILIENT BASE
MFR: ROPPE OR EQUAL
COLOR: 174 SMOKE
TYPE: RUBBER
SIZE: 4"
STYLE: COVED
WHERE USED: - RESILIENT FLOOR LOCATIONS - CONCRETE FLOOR LOCATIONS W/PAINTED WALLS

EPOXY FLOORING/ WALL

EF-1 EPOXY FLOOR
MFR: STONHARD
COLOR: COLOR TO MATCH ADJACENT WALL COLOR
PAINT TYPE: STONSHIELD HRI, W/ 4" INTEGRAL COVE BASE
SHEEN:
REMARKS: W/MIN. 3/16" THICK, EPOXY MORTAR WITH QUARTZ BROADCAST. PROVIDE EASED EDGE WHERE FLOORING MEETS SEALED CONCRETE.
WHERE USED: HOLDING RESTROOMS

EW-1 EPOXY WALL
MFR: STONHARD
COLOR: COLOR TO MATCH ADJACENT WALL COLOR
PAINT TYPE: STONSHIELD HRI, W/ 4" INTEGRAL COVE BASE
SHEEN:
REMARKS: W/MIN. 3/16" THICK, EPOXY MORTAR WITH QUARTZ BROADCAST
WHERE USED: HOLDING RESTROOMS

CORNER GUARD

CG-1 CORNER GUARD
MFR: ROCKWOOD 290
TYPE: STAINLESS STEEL CORNER GUARD
SIZE: 2" X 2" X 40"H START CORNER GUARD ABOVE WALL BASE, 4" AFF.
THICKNESS: .05"
MOUNTING: SELF-ADHESIVE
WHERE USED: BOH CORRIDORS

KEY NOTES - FINISH PLAN

KEY	DESCRIPTION

FINISH PLAN ANNOTATIONS

PLAN & ELEVATION SYMBOLS:

- KEYNOTE
- FINISH TAG
- FLOOR FINISH TRANSITION
- WOOD GRAIN OR FLOOR PATTERN DIRECTION
- GYP BD REVEAL LOCATIONS ON WALL SURFACES IN PUBLIC CORRIDORS. BASE REVEAL & 3' REVEAL; PL-1 LOCATIONS UP TO 3' AFF
- WC-1 LOCATIONS UP TO 3' AFF

FINISH PLAN GENERAL NOTES

1. ALL WALL PAINT TO BE P-1, UNO.
2. ALL GYP BOARD CEILING PAINT TO BE P-4, UNO.
3. FABRIC WRAPPED PANELS SHALL BE INSTALLED USING STRETCH WALL SYSTEM. SUBMIT FOR ARCHITECT'S APPROVAL PRIOR TO ORDERING.
4. ALL CHASE ROOMS TO HAVE NO FINISHES AND CONCRETE FLOORS.
5. SEALED CONCRETE ON DETENTION AREA FLOORS, UNO.
6. RF-1 STATIC DISSIPATIVE TILE IN ALL AV-/IT ROOMS, UNO.
7. ALL MECHANICAL ROOMS, ELECTRICAL, IT AND STORAGE TYPE ROOMS ARE TO HAVE PAINTED WALLS AND RUBBER BASE.
8. ALL EXIT STAIRS: WALLS AND RAILINGS TO BE PAINTED P-X. PROVIDE XX-X AT LEVEL 1 AND EACH LANDING. PROVIDE NOSINGS AT EACH STEP AND LANDING. FLOORS/ LANDINGS TO BE SEALED CONCRETE.
9. WALL BASE TO MATCH PAINTED WALL IN CARPETED AREAS, UNO.
10. REFER TO SHEET A942 FOR FLOOR MATERIAL TRANSITION DETAILS.
11. DETENTION HM DOORS AND DOOR FRAMES TO BE PAINTED P-6. REFER TO FLOOR PLANS FOR DOORS WITH A 'D' IN FRONT OF THE DOOR NUMBER FOR THESE DOOR TYPES.
12. DENTENTION HM WINDOW FRAMES TO BE PAINTED P-XX. REFER TO FLOOR PLANS FOR WINDOWS WITH A 'D' IN FRONT OF THE WINDOW NUMBER FOR THESE WINDOW TYPES.
13. REFER TO FINISH PLANS AND ELEVATIONS FOR PUBLIC CORRIDOR GYP BD WALL REVEAL LOCATIONS. REFER TO SHEET A943 FOR PUBLIC CORRIDOR GYP BD WALL REVEAL DETAILS.
14. UL FIRE RESITANT AND FIRE RESISTIVE TESTED ASSEMBLIES SHALL BE MAINTAIN ON ALL FIRE RATED PARTITIONS. DEVIATIONS FROM TESTED ASSEMBLIES ARE NOT ACCEPTABLE.
15. INSTALL PL-1 WAINSCOT ON ALL PUBLIC CORRIDOR WALLS UP TO 3' AFF, UNO.

1 FINISH PLAN - LEVEL 3
1/8" = 1'-0"

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Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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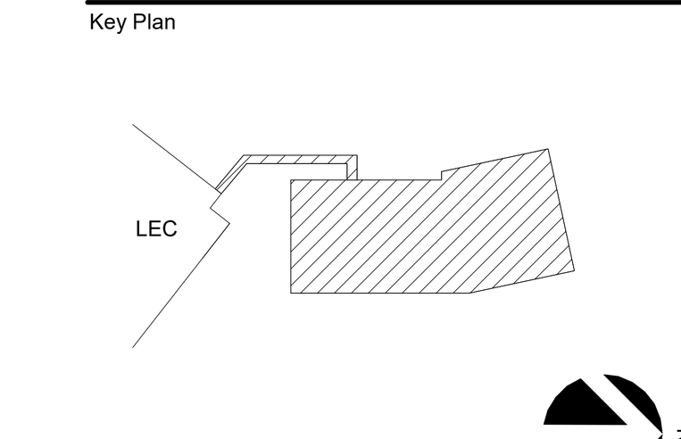
Key Plan



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1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
FINISH PLAN - LEVEL 3

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Sheet Number
A214

2021-01-15 9:00:31 AM

RCP FINISH TYPE INFORMATION

ACOUSTICAL TILE CEILINGS

ACT1
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE LAY-IN TROPIC.
TILE SIZE: 2' X 2'
GRID: 9/16"
NRC RATING: 85
WHERE USED: GENERAL AREA

ACT2
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE TEGULAR SONAR
TILE SIZE: 2' X 2'
GRID: 9/16" GRID SLN 16204
NRC RATING: 95
WHERE USED: JUDGE OFFICES, ATTORNEY OFFICES, CONFERENCE ROOMS

ACT3
DESCRIPTION: WASHABLE ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE LAY-IN HYGIENIC PLUS.
TILE SIZE: 2' x 2'
GRID: 9/16"
NRC RATING: 90
WHERE USED: IDF ROOM

ACT-4
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SONAR 14600
TILE SIZE: 2' x 8'
GRID: SQUARE TEGULAR 9/16" GRID SLN 16204
NRC RATING: 95
WHERE USED: COURTROOMS

DRYWALL CEILINGS

CLG1
DESCRIPTION: LEVEL 5 DRYWALL CEILING
COLOR: P-1
WHERE USED: LOBBY, JURY ASSEMBLY

CLG2
DESCRIPTION: ACOUSTICAL DRYWALL CEILING
MFR: USG
PRODUCT: ENSEMBLE
WHERE USED: COURTROOMS & PUBLIC CORRIDORS

WOOD CEILINGS

WD1
DESCRIPTION: WOOD PANEL CEILING
MFR: ARCH VENEERS
SPECIES: FUMED EUCALYPTUS
FLITCH: #5454-2159
FINISH: MATCH CONTROL SAMPLE
SIZE: REFER TO CEILING DETAILS
WHERE USED: ENTRY LOBBY, JURY ASSEMBLY, PUBLIC CORRIDORS

RCP LEGEND

CEILING

- **ACT 1** 2' x 2' LAY-IN & TEGULAR
- **ACT 2** 2' x 2' LAY-IN & TEGULAR HIGH NRC
- **ACT 3** 3' x 3' HIGH NRC
- **MTL1** METAL PANEL SYSTEM
- **ES** EXPOSED TO STRUCTURE
- **CLG1** DRYWALL CEILING
- **CLG2** ACOUSTICAL DRYWALL CEILING
- **CLG3** WD-1 CEILING
- **GL5** GLASS CANOPY
- DETENTION AREA. REFERENCE QD SHEETS

LIGHT FIXTURES

- 2' x 2' RECESSED
- 2' x 4' RECESSED
- LINEAR RECESSED
- RECESSED CAN
- RECESSED CAN
- RECESSED CAN
- RECESSED CAN WALL WASHER
- RECESSED CAN
- RECESSED CAN WALL WASHER
- ARTWORK LIGHTING SLOT SYSTEM
- HIGH BAY
- CONT. STRIP CABINET MTD
- EXIT LIGHT SIGN
- COVE LIGHT
- COVE LIGHT

KEY NOTES - RCP PLAN

KEY	DESCRIPTION
C 07	MECHOSHADE URBANSHADE SINGLE MANUAL

RCP ANNOTATIONS

RCP SYMBOLS

- 9' - 0" FINISHED CEILING HEIGHT AS INDICATED ON PLAN UON.
- CJ GYP BD CONTROL JOINT
- FIRE/SMOKE DETECTOR
- SPEAKER STROBE
- SPRINKLER
- TV AV/ TELECOM CEILING MOUNTED DEVICE
- DETENTION AREA. REFERENCE QD SHEETS
- STARTING POINT IN CEILING TILE

RCP GENERAL NOTES

1. REFER TO QD SHEETS FOR DETENTION CEILINGS
2. REFER TO ELECTRICAL DRAWINGS FOR COMPLETE LIGHTING PACKAGE.
3. REFER TO ELECTRICAL DRAWINGS FOR PENDANT LIGHT FIXTURE LOCATIONS IN EXPOSED (ES) CEILINGS.
4. WHERE ACOUSTICAL PANELS ARE REQUIRED TO BE CUT, CUT THE PANELS TO MAINTAIN A SHARP AND NEAT EDGE.
5. CEILING HEIGHT IS 9'-0", UNO. GROUND FLOOR CEILING HEIGHT IS 9'-4" UNO.
6. WD-1 CEILING REVEALS TO ALIGN WITH CORRESPONDING WD-1 WALL PANELS.
7. INSTALL LIGHTING FIXTURES, SPRINKLER HEADS, AND LIFE SAFETY DEVICES AT CENTER OF ACOUSTICAL CEILING TILE, UON.
8. SUSPENDED CEILING GRID SHALL BE LEVEL WITHIN A TOLERANCE OF 1/8" IN 12'-0".
9. ALL GYP BD CEILINGS, SOFFITS, AND CEILING LIGHTING COVES TO BE PAINTED P-4, UON.
10. ALL EXPOSED STRUCTURE TO BE PAINTED P-4, UON.
11. CEILING TILE TO BE CENTERED IN ROOM OR AREA, UON.
12. PROVIDE 4'-9" BY 3'-6" HIDDEN FLANGE ACCESS PANELS FOR ALL TERMINAL UNITS LOCATED ABOVE INACCESSIBLE CEILINGS. APPROXIMATE 90 ACCESS PANELS.

1 CEILING PLAN - GROUND LEVEL
1/8" = 1'-0"

2021-01-15 9:00:40 AM

THE STATE OF TEXAS
KAUFMAN COUNTY

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100 N. Washington St.
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Heilmuth, Obata & Kassabaum, Inc.
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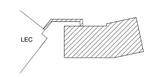
Key Plan



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Sheet Title
RCP - GROUND LEVEL

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
A301

RCP FINISH TYPE INFORMATION

ACOUSTICAL TILE CEILINGS

ACT1
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE LAY-IN TROPIC.
TILE SIZE: 2' X 2'
GRID: 9/16"
NRC RATING: 85
WHERE USED: GENERAL AREA

ACT2
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE TEGULAR SONAR
TILE SIZE: 2' X 2'
GRID: 9/16" GRID SLN 16204
NRC RATING: 95
WHERE USED: JUDGE OFFICES, ATTORNEY OFFICES, CONFERENCE ROOMS

ACT3
DESCRIPTION: WASHABLE ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE LAY-IN HYGIENIC PLUS.
TILE SIZE: 2' x 2'
GRID: 9/16"
NRC RATING: 90
WHERE USED: IDF ROOM

ACT-4
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SONAR 14600
TILE SIZE: 2' x 8'
GRID: SQUARE TEGULAR 9/16" GRID SLN 16204
NRC RATING: 95
WHERE USED: COURTROOMS

DRYWALL CEILINGS

CLG1
DESCRIPTION: LEVEL 5 DRYWALL CEILING
COLOR: P-1
WHERE USED: LOBBY, JURY ASSEMBLY

CLG2
DESCRIPTION: ACOUSTICAL DRYWALL CEILING
MFR: USG
PRODUCT: ENSEMBLE
WHERE USED: COURTROOMS & PUBLIC CORRIDORS

WOOD CEILINGS

WD1
DESCRIPTION: WOOD PANEL CEILING
MFR: ARCH VENEERS
SPECIES: FUMED EUCALYPTUS
FLITCH: #5454-2159
FINISH: MATCH CONTROL SAMPLE
SIZE: REFER TO CEILING DETAILS
WHERE USED: ENTRY LOBBY, JURY ASSEMBLY, PUBLIC CORRIDORS

RCP LEGEND

CEILING

- **ACT 1** 2' x 2' LAY-IN & TEGULAR
- **ACT 2** 2' x 2' LAY-IN & TEGULAR HIGH NRC
- **ACT 3** 3' x 3' HIGH NRC
- **MTL1** METAL PANEL SYSTEM
- **ES** EXPOSED TO STRUCTURE
- **CLG1** DRYWALL CEILING
- **CLG2** ACOUSTICAL DRYWALL CEILING
- **CLG3** WD-1 CEILING
- **GLS** GLASS CANOPY
- DETENTION AREA. REFERENCE QD SHEETS

LIGHT FIXTURES

- 2' x 2' RECESSED
- 2' x 4' RECESSED
- LINEAR RECESSED
- RECESSED CAN
- RECESSED CAN
- RECESSED CAN
- RECESSED CAN WALL WASHER
- RECESSED CAN
- RECESSED CAN WALL WASHER
- ARTWORK LIGHTING SLOT SYSTEM
- HIGH BAY
- CONT. STRIP CABINET MTD
- EXIT LIGHT SIGN
- COVE LIGHT
- COVE LIGHT

KEY NOTES - RCP PLAN

KEY	DESCRIPTION
C 07	MECHOSHADE URBANSHADE SINGLE MANUAL
C 08	MECHOSHADE ELECTROSHADE MOTORIZED DUAL AUTOMATED

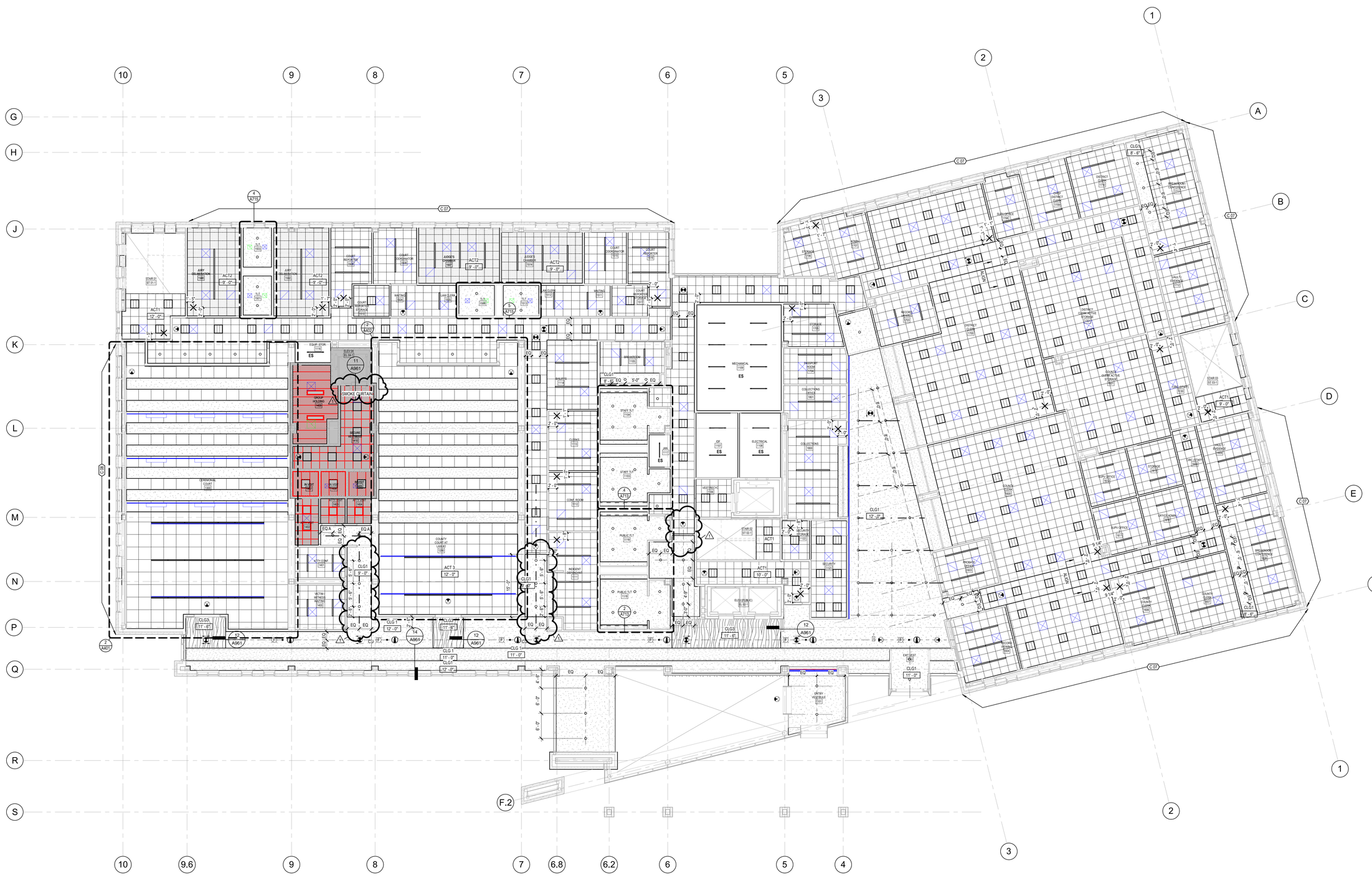
RCP ANNOTATIONS

RCP SYMBOLS

- 9' - 0" FINISHED CEILING HEIGHT AS INDICATED ON PLAN UON.
- GYP BD CONTROL JOINT
- FIRE/SMOKE DETECTOR
- SPEAKER STROBE
- SPRINKLER
- TV A/V/ TELECOM CEILING MOUNTED DEVICE
- DETENTION AREA. REFERENCE QD SHEETS
- STARTING POINT IN CEILING TILE

RCP GENERAL NOTES

1. REFER TO QD SHEETS FOR DETENTION CEILINGS
2. REFER TO ELECTRICAL DRAWINGS FOR COMPLETE LIGHTING PACKAGE.
3. REFER TO ELECTRICAL DRAWINGS FOR PENDANT LIGHT FIXTURE LOCATIONS IN EXPOSED (ES) CEILINGS.
4. WHERE ACOUSTICAL PANELS ARE REQUIRED TO BE CUT, CUT THE PANELS TO MAINTAIN A SHARP AND NEAT EDGE.
5. CEILING HEIGHT IS 9'-0", UNO. GROUND FLOOR CEILING HEIGHT IS 9'-4" UNO.
6. WD-1 CEILING REVEALS TO ALIGN WITH CORRESPONDING WD-1 WALL PANELS.
7. INSTALL LIGHTING FIXTURES, SPRINKLER HEADS, AND LIFE SAFETY DEVICES AT CENTER OF ACOUSTICAL CEILING TILE, UON.
8. SUSPENDED CEILING GRID SHALL BE LEVEL WITHIN A TOLERANCE OF 1/8" IN 12'-0".
9. ALL GYP BD CEILINGS, SOFFITS, AND CEILING LIGHTING COVES TO BE PAINTED P-4, UON.
10. ALL EXPOSED STRUCTURE TO BE PAINTED P-4, UON.
11. CEILING TILE TO BE CENTERED IN ROOM OR AREA, UON.
12. PROVIDE 4'-9" BY 3'-6" HIDDEN FLANGE ACCESS PANELS FOR ALL TERMINAL UNITS LOCATED ABOVE INACCESSIBLE CEILINGS. APPROXIMATE 90 ACCESS PANELS.



1 REFLECTED CEILING PLAN - LEVEL 1
1/8" = 1'-0"

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

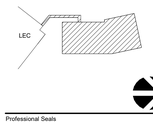
Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
RCP -LEVEL 1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
A302

2021-01-15 9:00:51 AM

RCP FINISH TYPE INFORMATION

ACOUSTICAL TILE CEILINGS

ACT1
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE LAY-IN TROPIC.
TILE SIZE: 2' X 2'
GRID: 9/16"
NRC RATING: 85
WHERE USED: GENERAL AREA

ACT2
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE TEGULAR SONAR
TILE SIZE: 2' X 2'
GRID: 9/16" GRID SLN 16204
NRC RATING: 95
WHERE USED: JUDGE OFFICES, ATTORNEY OFFICES, CONFERENCE ROOMS

ACT3
DESCRIPTION: WASHABLE ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE LAY-IN HYGIENIC PLUS.
TILE SIZE: 2' x 2'
GRID: 9/16"
NRC RATING: 90
WHERE USED: IDF ROOM

ACT-4
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SONAR 14600
TILE SIZE: 2' x 8'
GRID: SQUARE TEGULAR 9/16" GRID SLN 16204
NRC RATING: 95
WHERE USED: COURTROOMS

DRYWALL CEILINGS

CLG1
DESCRIPTION: LEVEL 5 DRYWALL CEILING
COLOR: P-1
WHERE USED: LOBBY, JURY ASSEMBLY

CLG2
DESCRIPTION: ACOUSTICAL DRYWALL CEILING
MFR: USG
PRODUCT: ENSEMBLE
WHERE USED: COURTROOMS & PUBLIC CORRIDORS

WOOD CEILINGS

WD1
DESCRIPTION: WOOD PANEL CEILING
MFR: ARCH VENEERS
SPECIES: FUMED EUCALYPTUS
FLITCH: #5454-2159
FINISH: MATCH CONTROL SAMPLE
SIZE: REFER TO CEILING DETAILS
WHERE USED: ENTRY LOBBY, JURY ASSEMBLY, PUBLIC CORRIDORS

RCP LEGEND

CEILING

- **ACT 1** 2' x 2' LAY-IN & TEGULAR
- **ACT 2** 2' x 2' LAY-IN & TEGULAR HIGH NRC
- **ACT 3** 3' x 3' HIGH NRC
- **MTL1** METAL PANEL SYSTEM
- **ES** EXPOSED TO STRUCTURE
- **CLG1** DRYWALL CEILING
- **CLG2** ACOUSTICAL DRYWALL CEILING
- **CLG3** WD-1 CEILING
- **GL5** GLASS CANOPY
- DETENTION AREA. REFERENCE QD SHEETS

LIGHT FIXTURES

- 2' x 2' RECESSED
- 2' x 4' RECESSED
- LINEAR RECESSED
- RECESSED CAN
- RECESSED CAN
- RECESSED CAN
- RECESSED CAN WALL WASHER
- RECESSED CAN
- RECESSED CAN WALL WASHER
- ARTWORK LIGHTING SLOT SYSTEM
- HIGH BAY
- CONT. STRIP CABINET MTD
- EXIT LIGHT SIGN
- COVE LIGHT
- COVE LIGHT

KEY NOTES - RCP PLAN

KEY	DESCRIPTION
C 07	MECHOSHADE URBANSHADE SINGLE MANUAL
C 08	MECHOSHADE ELECTROSHADE MOTORIZED DUAL AUTOMATED

RCP ANNOTATIONS

RCP SYMBOLS

- 9' - 0" FINISHED CEILING HEIGHT AS INDICATED ON PLAN UON.
- CJ GYP BD CONTROL JOINT
- FIRE/SMOKE DETECTOR
- SPEAKER STROBE
- SPRINKLER
- TV AV/ TELECOM CEILING MOUNTED DEVICE
- DETENTION AREA. REFERENCE QD SHEETS
- STARTING POINT IN CEILING TILE

RCP GENERAL NOTES

1. REFER TO QD SHEETS FOR DETENTION CEILINGS
2. REFER TO ELECTRICAL DRAWINGS FOR COMPLETE LIGHTING PACKAGE.
3. REFER TO ELECTRICAL DRAWINGS FOR PENDANT LIGHT FIXTURE LOCATIONS IN EXPOSED (ES) CEILINGS.
4. WHERE ACOUSTICAL PANELS ARE REQUIRED TO BE CUT, CUT THE PANELS TO MAINTAIN A SHARP AND NEAT EDGE.
5. CEILING HEIGHT IS 9'-0", UNO. GROUND FLOOR CEILING HEIGHT IS 9'-4" UNO.
6. WD-1 CEILING REVEALS TO ALIGN WITH CORRESPONDING WD-1 WALL PANELS.
7. INSTALL LIGHTING FIXTURES, SPRINKLER HEADS, AND LIFE SAFETY DEVICES AT CENTER OF ACOUSTICAL CEILING TILE, UON.
8. SUSPENDED CEILING GRID SHALL BE LEVEL WITHIN A TOLERANCE OF 1/8" IN 12'-0".
9. ALL GYP BD CEILINGS, SOFFITS, AND CEILING LIGHTING COVES TO BE PAINTED P-4, UON.
10. ALL EXPOSED STRUCTURE TO BE PAINTED P-4, UON.
11. CEILING TILE TO BE CENTERED IN ROOM OR AREA, UON.
12. PROVIDE 4'-9" BY 3'-6" HIDDEN FLANGE ACCESS PANELS FOR ALL TERMINAL UNITS LOCATED ABOVE INACCESSIBLE CEILINGS. APPROXIMATE 90 ACCESS PANELS.

1 REFLECTED CEILING PLAN - LEVEL 2
1/8" = 1'-0"

2021-01-15 9:01:03 AM

THE STATE OF TEXAS
KAUFMAN COUNTY

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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100 Glass Street
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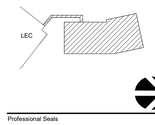
MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
RCP -LEVEL 2

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
A303

RCP FINISH TYPE INFORMATION

ACOUSTICAL TILE CEILINGS

ACT1
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE LAY-IN TROPIC.
TILE SIZE: 2' X 2'
GRID: 9/16"
NRC RATING: 85
WHERE USED: GENERAL AREA

ACT2
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE TEGULAR SONAR
TILE SIZE: 2' X 2'
GRID: 9/16" GRID SLN 16204
NRC RATING: 95
WHERE USED: JUDGE OFFICES, ATTORNEY OFFICES, CONFERENCE ROOMS

ACT3
DESCRIPTION: WASHABLE ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SQUARE LAY-IN HYGIENIC PLUS.
TILE SIZE: 2' x 2'
GRID: 9/16"
NRC RATING: 90
WHERE USED: IDF ROOM

ACT-4
DESCRIPTION: ACOUSTICAL CEILING TILE
MFR: ROCKFON
TILE: SONAR 14600
TILE SIZE: 2' x 8'
GRID: SQUARE TEGULAR 9/16" GRID SLN 16204
NRC RATING: 95
WHERE USED: COURTROOMS

DRYWALL CEILINGS

CLG1
DESCRIPTION: LEVEL 5 DRYWALL CEILING
COLOR: P-1
WHERE USED: LOBBY, JURY ASSEMBLY

CLG2
DESCRIPTION: ACOUSTICAL DRYWALL CEILING
MFR: USG
PRODUCT: ENSEMBLE
WHERE USED: COURTROOMS & PUBLIC CORRIDORS

WOOD CEILINGS

WD1
DESCRIPTION: WOOD PANEL CEILING
MFR: ARCH VENEERS
SPECIES: FUMED EUCALYPTUS
FLITCH: #5454-2159
FINISH: MATCH CONTROL SAMPLE
SIZE: REFER TO CEILING DETAILS
WHERE USED: ENTRY LOBBY, JURY ASSEMBLY, PUBLIC CORRIDORS

RCP LEGEND

CEILING

- **ACT 1** 2' x 2' LAY-IN & TEGULAR
- **ACT 2** 2' x 2' LAY-IN & TEGULAR HIGH NRC
- **ACT 3** 3' x 3' HIGH NRC
- **MTL1** METAL PANEL SYSTEM
- **ES** EXPOSED TO STRUCTURE
- **CLG1** DRYWALL CEILING
- **CLG2** ACOUSTICAL DRYWALL CEILING
- **CLG3** WD-1 CEILING
- **GL5** GLASS CANOPY
- DETENTION AREA. REFERENCE QD SHEETS

LIGHT FIXTURES

- 2' x 2' RECESSED
- 2' x 4' RECESSED
- LINEAR RECESSED
- RECESSED CAN
- RECESSED CAN
- RECESSED CAN
- RECESSED CAN WALL WASHER
- RECESSED CAN
- RECESSED CAN WALL WASHER
- ARTWORK LIGHTING SLOT SYSTEM
- HIGH BAY
- CONT. STRIP CABINET MTD
- EXIT LIGHT SIGN
- COVE LIGHT
- COVE LIGHT

KEY NOTES - RCP PLAN

KEY	DESCRIPTION
C 07	MECHOSHADE URBANSHADE SINGLE MANUAL
C 08	MECHOSHADE ELECTROSHADE MOTORIZED DUAL AUTOMATED

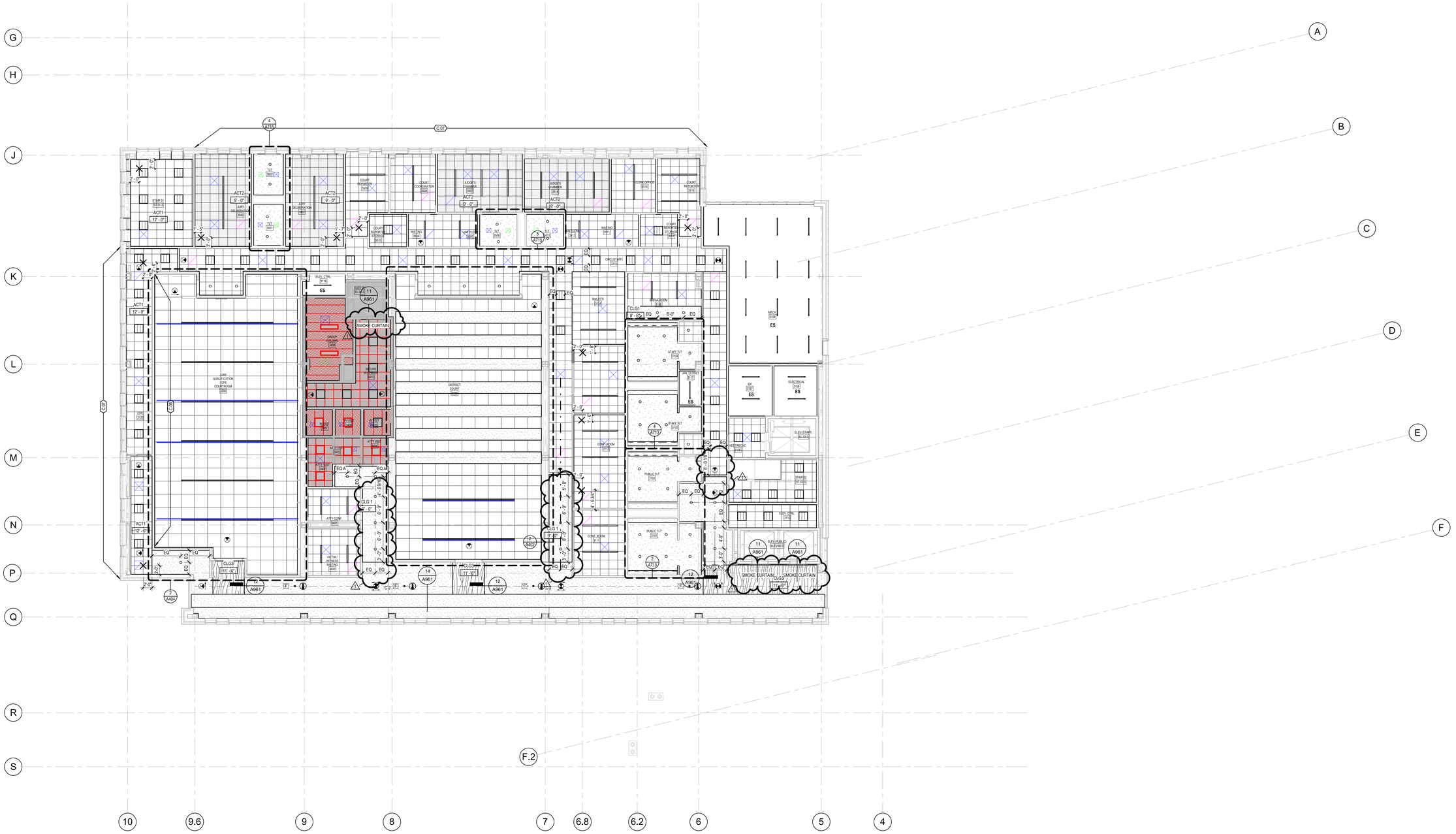
RCP ANNOTATIONS

RCP SYMBOLS

- 9' - 0" FINISHED CEILING HEIGHT AS INDICATED ON PLAN UON.
- GYP BD CONTROL JOINT
- FIRE/SMOKE DETECTOR
- SPEAKER STROBE
- SPRINKLER
- TV AV/ TELECOM CEILING MOUNTED DEVICE
- DETENTION AREA. REFERENCE QD SHEETS
- STARTING POINT IN CEILING TILE

RCP GENERAL NOTES

1. REFER TO QD SHEETS FOR DETENTION CEILINGS
2. REFER TO ELECTRICAL DRAWINGS FOR COMPLETE LIGHTING PACKAGE.
3. REFER TO ELECTRICAL DRAWINGS FOR PENDANT LIGHT FIXTURE LOCATIONS IN EXPOSED (ES) CEILINGS.
4. WHERE ACOUSTICAL PANELS ARE REQUIRED TO BE CUT, CUT THE PANELS TO MAINTAIN A SHARP AND NEAT EDGE.
5. CEILING HEIGHT IS 9'-0", UNO. GROUND FLOOR CEILING HEIGHT IS 9'-4" UNO.
6. WD-1 CEILING REVEALS TO ALIGN WITH CORRESPONDING WD-1 WALL PANELS.
7. INSTALL LIGHTING FIXTURES, SPRINKLER HEADS, AND LIFE SAFETY DEVICES AT CENTER OF ACOUSTICAL CEILING TILE, UON.
8. SUSPENDED CEILING GRID SHALL BE LEVEL WITHIN A TOLERANCE OF 1/8" IN 12'-0".
9. ALL GYP BD CEILINGS, SOFFITS, AND CEILING LIGHTING COVES TO BE PAINTED P-4, UON.
10. ALL EXPOSED STRUCTURE TO BE PAINTED P-4, UON.
11. CEILING TILE TO BE CENTERED IN ROOM OR AREA, UON.
12. PROVIDE 4'-9" BY 3'-6" HIDDEN FLANGE ACCESS PANELS FOR ALL TERMINAL UNITS LOCATED ABOVE INACCESSIBLE CEILINGS. APPROXIMATE 90 ACCESS PANELS.



1 CEILING PLAN - LEVEL 3
1/8" = 1'-0"

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

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717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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MEPCE
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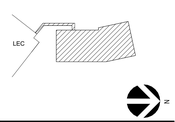
Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELIM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
RCP - LEVEL 3

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
A304

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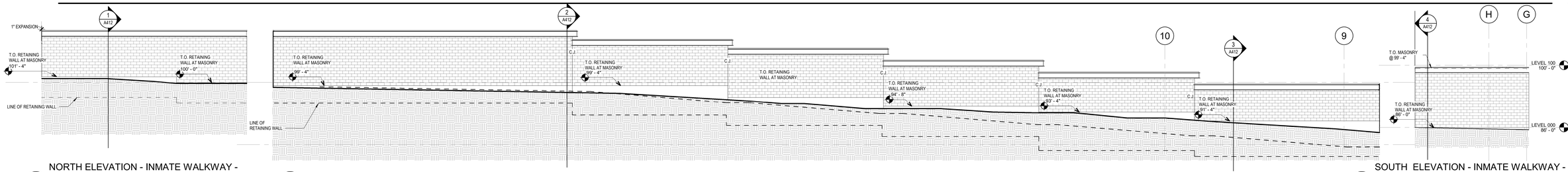
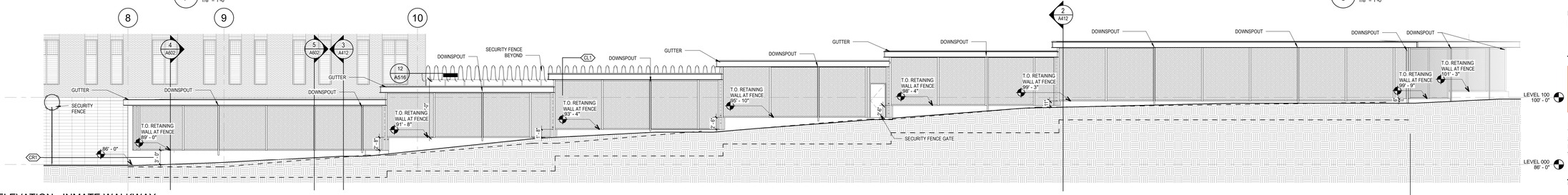


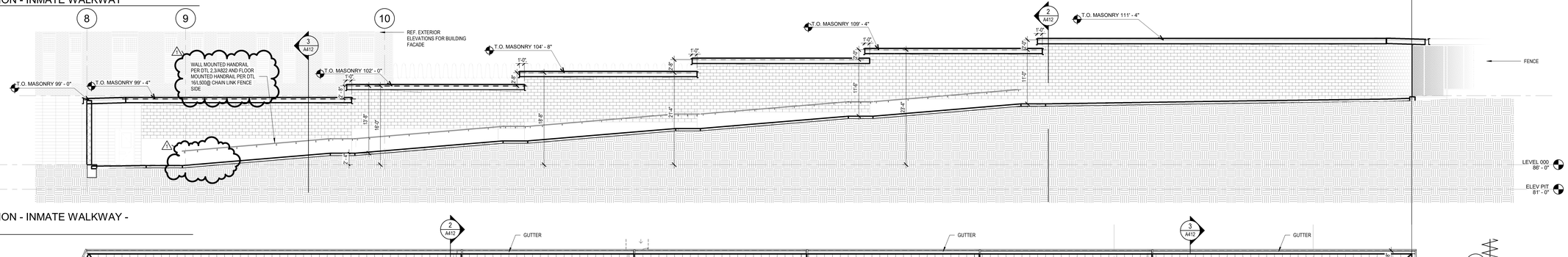
8 NORTH ELEVATION - INMATE WALKWAY - LEVEL 100
1/8" = 1'-0"

7 ELEVATION - CONNECTOR EAST
1/8" = 1'-0"

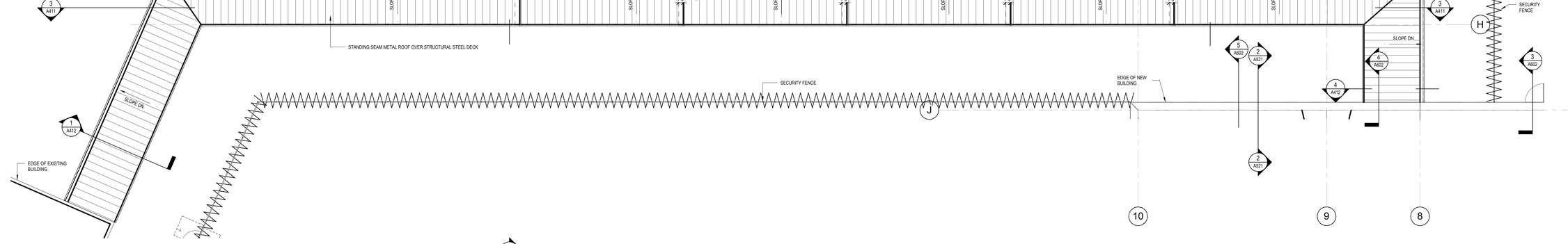
6 SOUTH ELEVATION - INMATE WALKWAY - LEVEL 000
1/8" = 1'-0"



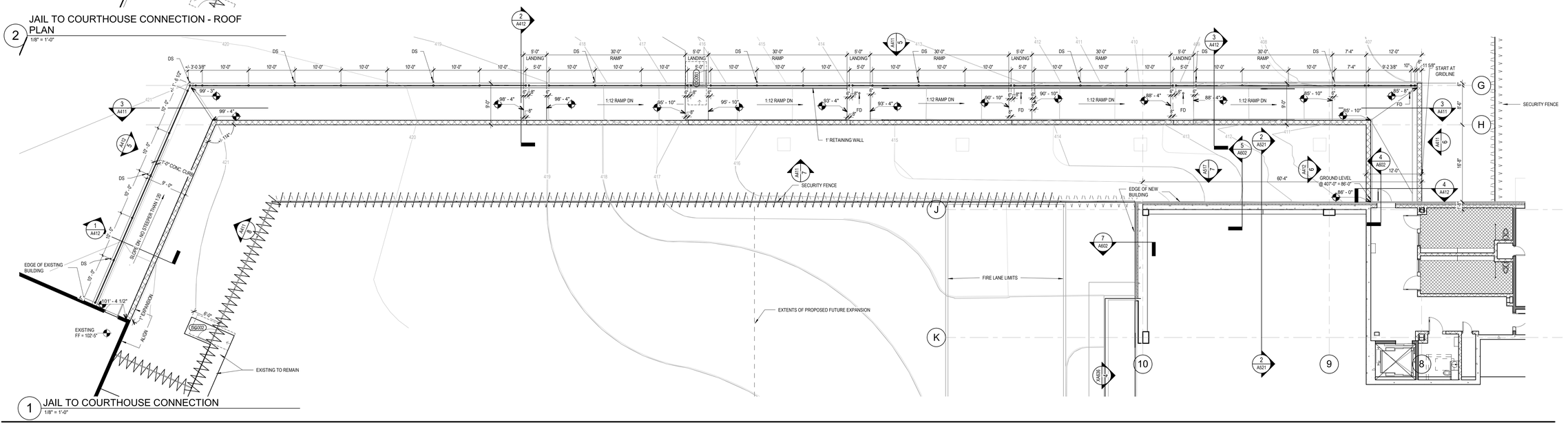
5 WEST ELEVATION - INMATE WALKWAY
1/8" = 1'-0"



3 BUILDING SECTION - INMATE WALKWAY - FACING EAST
1/8" = 1'-0"



2 JAIL TO COURTHOUSE CONNECTION - ROOF PLAN
1/8" = 1'-0"



1 JAIL TO COURTHOUSE CONNECTION
1/8" = 1'-0"

2021-01-15 9:01:34 AM

KAUFMAN COUNTY JUSTICE CENTER

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KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

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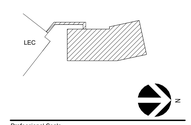
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
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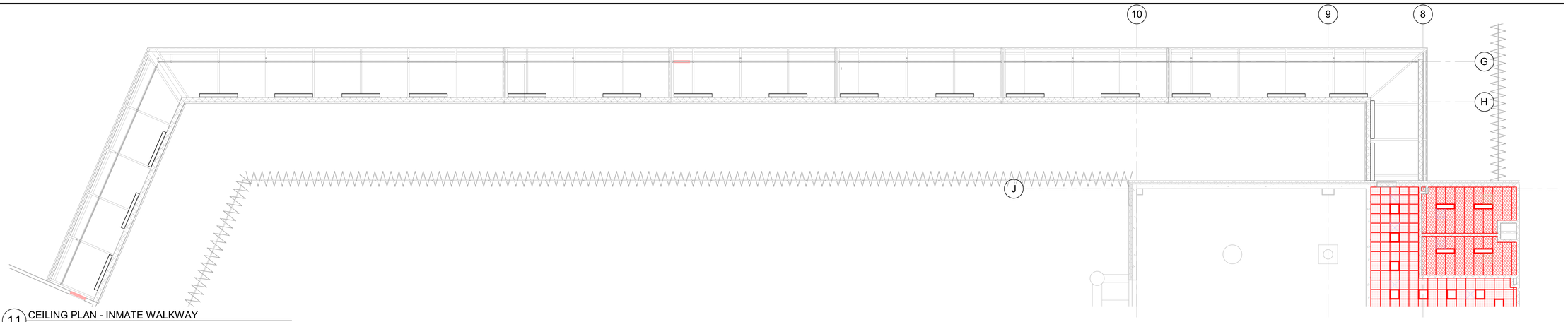
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

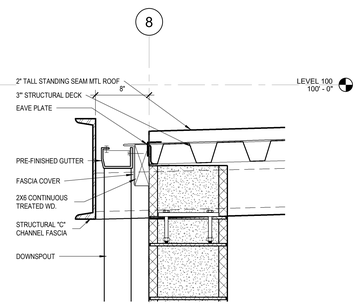
Sheet Title
JAIL TO COURTHOUSE CONNECTION

Original is 48 x 36. Do not scale contents of this drawing.

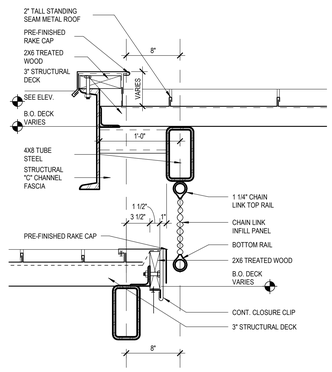
Sheet Number
A411



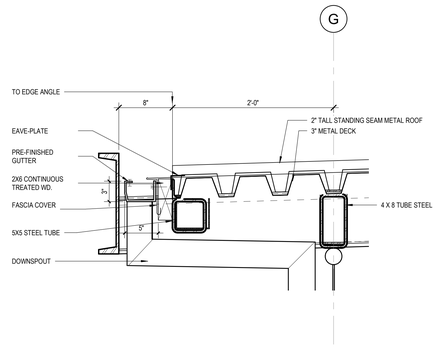
11 CEILING PLAN - INMATE WALKWAY
1/8" = 1'-0"



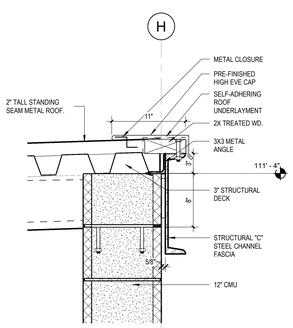
10 SECTION - INMATE WALKWAY - ROOF @ CMU
1 1/2" = 1'-0"



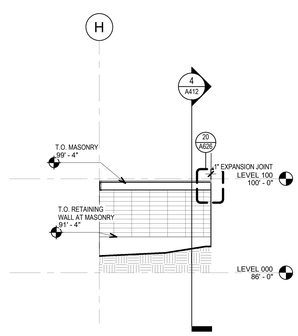
SECTION DETAIL - HIGH ROOF TO LOW ROOF AT INMATE WALKWAY
1 1/2" = 1'-0"



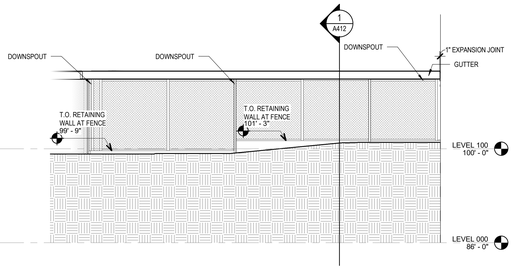
8 SECTION DETAIL - INMATE WALKWAY @ SECURITY FENCE
1 1/2" = 1'-0"



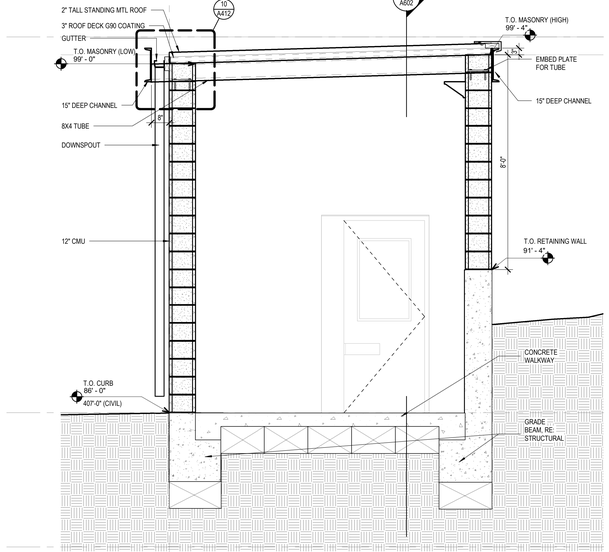
7 SECTION DETAIL - INMATE WALKWAY @ CMU
1 1/2" = 1'-0"



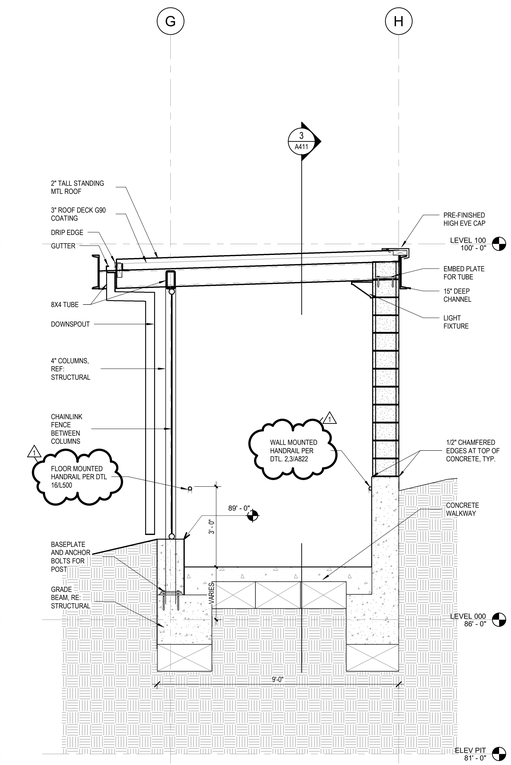
NORTH ELEVATION - WALKWAY INTO MAIN BUILDING
1/8" = 1'-0"



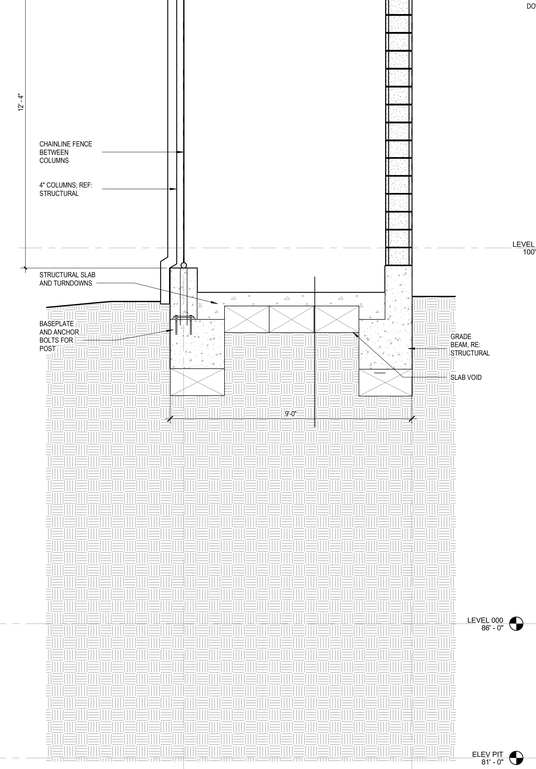
SOUTH ELEVATION - INMATE WALKWAY - LEVEL 100
1/8" = 1'-0"



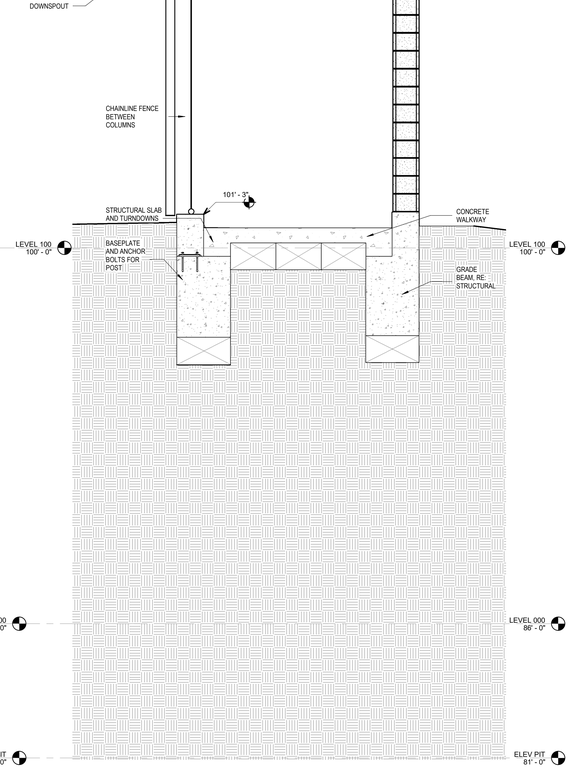
4 SECTION - INMATE WALKWAY LEADING TO MAIN BUILDING
1/2" = 1'-0"



3 SECTION WALKWAY AT GROUND LEVEL
1/2" = 1'-0"



2 SECTION - INMATE WALKWAY AT LEVEL 100
1/2" = 1'-0"



1 SECTION - WALKWAY AT LEVEL 100
1/2" = 1'-0"

2021-01-15 9:01:46 AM

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

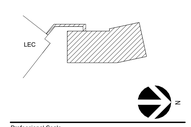
Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
JAIL TO COURTHOUSE CONNECTION

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
A412

900 DOOR SCHEDULE - GROUND LEVEL

NUMBER	TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLASS	DOOR WIDTH 1	DOOR WIDTH 2	DOOR HEIGHT	FRAME TYPE	FRAME MATERIAL	FRAME GLASS	FRAME FINISH	HARDWARE SET	FIRE RATING	STC RATING	CARD READER	REMARKS	REVISION
LEVEL 000																	
0101	F	WD	TR		3' - 0"		7' - 0"	1	AL		AA	41.0					
0102	F	WD	TR		3' - 0"		7' - 0"	1	AL		AA	41.0					
0103	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	41.0					
0104	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	41.0					
0105	F	HM	PT		4' - 0"		8' - 10"	1	HM		PT	37.1				Commercial Hollow Metal	
0105A	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
0106	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	28.0					
0106G	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	6.1				MONITORED ONLY	
0107	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	34.0					
0108	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	23.0		55		Commercial Hollow Metal	
0109	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	23.0		55		Commercial Hollow Metal	
0109EX	F	HM	PT		4' - 0"		7' - 10"	1	HM		PT	5.0				Commercial Hollow Metal, MONITORED ONLY	
0110	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	28.0				Commercial Hollow Metal	
0110EX	F	HM	PT		4' - 0"		7' - 10"	1	HM		PT	6.0				Commercial Hollow Metal, MONITORED ONLY	
0111	F	HM	PT		3' - 0"	3' - 0"	9' - 0"	2	HM		PT	9.0				Commercial Hollow Metal	
0111EX	F	HM	PT		3' - 0"	3' - 0"	9' - 0"	2	HM		PT	3.0			✓	Commercial Hollow Metal	
0112	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	30.0				Commercial Hollow Metal	
0113	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	21.0				Commercial Hollow Metal	
0114	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	21.0				Commercial Hollow Metal	
0115	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	15.0			✓	Commercial Hollow Metal	
0117EX	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	4.1			✓	Commercial Hollow Metal	
0118	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
0120	F	HM	PT		3' - 0"		8' - 0"	1	HM		PT	17.0			✓	Commercial Hollow Metal	
0120EX	N	HM	PT	GL-25	3' - 0"		7' - 0"	1	HM		PT	4.0			✓	Commercial Hollow Metal	
0200A	F	HM	PT		3' - 0"		8' - 0"	1	HM		PT	14.0		55	✓	Commercial Hollow Metal	
0201	F	HM	PT		3' - 0"		8' - 0"	1	HM		PT	36.0		35		Commercial Hollow Metal	
0202	F	WD	TS		3' - 0"		8' - 0"	1	AL		AA	40.1		35			
0203	F	WD	TR		3' - 0"		8' - 0"	1	AL		AA	40.1		35			
0204	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	23.0		55			
0205	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	23.1		55			
0300A	F	WD	TR		3' - 0"		8' - 0"	3	AL	GL-20	AA	17.0			✓		
0300B	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.1			✓		
0302	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0303	F	WD	TR		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0304	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0305	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	40.0					
0500	F	WD	TR		3' - 0"		8' - 0"	3	AL	GL-20	AA	31.0					
0501A	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	15.0			✓		
0501B	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	15.1			✓	Commercial Hollow Metal	
0502	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0503	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	41.0					
0504	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0505	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	37.0					
0506	F	WD	TS		3' - 0"		7' - 0"	1	AL	GL-20	AA	21.0					
0507	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	37.0					
0508	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0509	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0510	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0511	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0512	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0513	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	30.0					
0514	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
0515	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
0600A	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	15.1			✓	Commercial Hollow Metal	
0601	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	15.0			✓	Commercial Hollow Metal	
0700A	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
0700B	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	15.0			✓	Commercial Hollow Metal	
0701	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	15.0			✓	Commercial Hollow Metal	
ST 02-0	N	WD	TR	GL-25	3' - 0"		8' - 0"	1	HM		PT	24.3	90			Commercial Hollow Metal	
ST 03-0	N	HM	PT	GL-25	3' - 0"		7' - 0"	1	HM		PT	12.0	90		✓	Commercial Hollow Metal	
ST 03-0 EX	FG	AL	AA	GL-02	3' - 0"		7' - 0"	1	AL		AA	6.0				Commercial Hollow Metal, MONITORED ONLY	

01

900 DOOR SCHEDULE - LEVEL 1

NUMBER	TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLASS	DOOR WIDTH 1	DOOR WIDTH 2	DOOR HEIGHT	FRAME TYPE	FRAME MATERIAL	FRAME GLASS	FRAME FINISH	HARDWARE SET	FIRE RATING	STC RATING	CARD READER	REMARKS	REVISION
LEVEL 100																	
1100EX	FG	AL	AA	GL-02	3' - 6"		8' - 10"	1	AL		AA	6.2				MONITORED ONLY	
1101	F	WD	TR		3' - 0"		7' - 0"	1	AL		AA	41.0					
1101A	FG	AL	AA	GL-20	2' - 11"	2' - 11"	9' - 0"	2	AL		AA	1.0			✓		
1101B	FG	AL	AA	GL-20	3' - 2 1/2"	3' - 2 1/2"	9' - 0"	2	AL		AA	7.0				MONITORED ONLY	
1102	F	WD	TR		3' - 0"		7' - 0"	1	AL		AA	41.0					
1102A	FG	AL	AA	GL-20	3' - 2"	3' - 2"	9' - 2 1/2"	2	AL		AA	2.0				MONITORED ONLY	
1102B	FG	AL	AA	GL-20	3' - 1 1/4"		8' - 11"	1	AL		AA	7.1					
1102C	FG	AL	AA	GL-20	3' - 1 1/4"		8' - 11"	1	AL		AA	7.1					
1103	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	41.0					
1104	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	41.0					
1105	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	41.0					
1106	F	HM	PT		4' - 0"		8' - 10"	1	HM		PT	37.1				Commercial Hollow Metal	
1107	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.0			✓		
1108	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
1109	F	HM	PT		3' - 6"		7' - 0"	1	HM		PT	23.0		55		Commercial Hollow Metal	
1110A	F	HM	PT		3' - 0"		8' - 0"	1	HM		PT	19.1			✓	Commercial Hollow Metal	
1110B	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	19.0			✓		
1110C	F	HM	PT		3' - 0"		8' - 0"	1	HM		PT	19.2			✓	Commercial Hollow Metal	
1110D	F	HM	PT		3' - 0"		8' - 0"	1	HM		PT	19.1			✓	Commercial Hollow Metal	
1111	F	WD	TS		3' - 0"		8' - 0"	1	AL		AA	23.0		35			
1112	F	WD	TS		3' - 0"		8' - 0"	1	AL		AA	38.0		35			
1113	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	38.0		35			
1115	F	HM	PT		3' - 0"		8' - 0"	1	HM		PT	19.1			✓	Commercial Hollow Metal	
1116	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
1117	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
1120	F	WD	TR		3' - 4"		3' - 6"	-	WD		-	43.0				MILLWORK FABRICATED DOOR WITH LEVEL 3 BULLET RESISTANT INFILL PANEL INSIDE	
1121	F	HM	PT		3' - 0"		8' - 0"	1	HM		PT	15.2			✓	Commercial Hollow Metal	
1122	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
1200B	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	19.4			✓	Commercial Hollow Metal	
1200C	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	19.4			✓	Commercial Hollow Metal	
1201	F	WD	TR		3' - 0"	3' - 0"	8' - 0"	2	AL		AA	10.0					
1300A	F	WD	TR		3' - 0"	3' - 0"	8' - 0"	2	AL		AA	11.0		55			
1300B	F	HM	TS		3' - 0"		7' - 0"	1	HM		AA	19.3		55	✓	Commercial Hollow Metal	
1300C	F	HM	TS		3' - 0"		7' - 0"	1	HM		AA	19.3		55	✓	Commercial Hollow Metal	
1400	F	WD	TR		3' - 0"		8' - 0"	1	AL		AA	36.0		55			
1401	F	WD	TR		3' - 0"		8' - 0"	1	AL		AA	36.0		55			
1402	F	WD	TS		3' - 0"		8' - 0"	1	AL		AA	36.0		55			
1403	F	WD	TS		3' - 0"		8' - 0"	1	AL		AA	36.0		55			
1404	F	WD	TS		3' - 0"		8' - 0"	1	AL		AA	36.0		55			
1405	N	WD	TR	G1	3' - 0"		7' - 10"	1	AL		AA	36.0		55			
1500	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	36.0		55			
1501	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	40.0					
1502	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	36.0		55			
1503	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	40.0					
1504	F	WD	TS		3' - 0"		7' - 0"	4	AL		AA	34.0					
1506	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	40.0					
1507	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	32.0		55			
1508	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	30.0					
1509	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	30.0					
1510	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	27.0				Commercial Hollow Metal	
1511	F	WD	TS		3' - 0"		7' - 0"	4	AL		AA	34.0					
1513	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	40.0		-			
1514	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	32.0		55			
1515	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	30.0					
1516	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	30.0					
1517	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	27.0				Commercial Hollow Metal	
1601	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
1602A	F	WD	TR		3' - 0"		8' - 0"	1	AL		AA	17.0			✓		
1602B	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.0			✓		
1603A	F	WD	TR		3' - 0"		8' - 0"	1	AL		AA	31.0					
1603B	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.0			✓		
1604A	F	WD	TR		3' - 0"		8' - 0"	1	AL		AA	35.0					
1604B	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.0			✓		
1606	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	32.0		35			
1607	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	32.0		35			
1608	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	37.0					
1609	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	15.1			✓	Commercial Hollow Metal	
1610	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
1611	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
1612	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	30.0					
1613	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
1701	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
1702A	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.0			✓		
1702B	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.0			✓		
1703A	F	WD	TR		3' - 0"		8' - 0"	1	AL		AA	35.0					
1703B	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.0			✓		
1704	F	WD	TR		3' - 0"		8' - 0"	1	AL	GL-20	AA	17.0			✓		
1705	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	15.0			✓		
1706	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	21.0					
1707	F	WD	TS		3' - 0"		7' - 0"	1	AL	GL-20	AA	30.0					
1708	F	WD	TS		3' - 0"		7' - 0"	3	AL		AA	30.0					
1709	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	32.0		35			
1710	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	32.0		35			
1711	F	WD	TS		3' - 0"		7' - 0"	3	AL	GL-20	AA	37.0					
1712	F	HM	PT		3' - 0"		7' - 0"	1	HM		PT	15.1			✓	Commercial Hollow Metal	
1800	F	WD	TR		3' - 0"		8' - 0"	1	AL		AA	17.0			✓		
1801	F	WD	TS		3' - 0"		7' - 0"	1	AL		AA	30.0					
ST01-1 EX	FG	AL	AA	GL-02	3' - 6"		8' - 10"	1	AL		AA	6.2				MONITORED ONLY	
ST 01-1	N	HM	PT	GL-25	3' - 0"		7' - 0"	1	HM		PT	12.0	90		✓	Commercial Hollow Metal	
ST 03-1	N	HM	PT	GL-25	3' - 0"		7' - 0"	1	HM		PT	12.0	90		✓	Commercial Hollow Metal, MONITORED ONLY	

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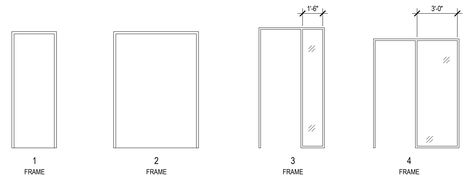
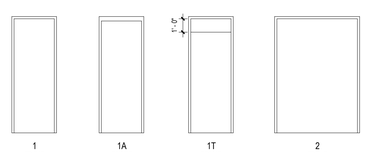
ALUMINUM METAL FRAME TYPES

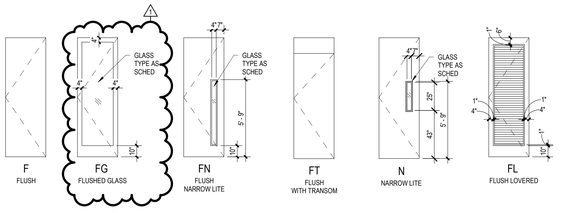


HOLLOW METAL FRAME TYPES



DOOR FRAME TYPES

N.T.S.



DOOR TYPE DIAGRAMS

N.T.S.

GENERAL NOTES

1. ALL INTERIOR PAINTED HM DOORS AND HM FRAMES TO MATCH WALL IN WHICH DOOR OCCURS.
2. ALL DOORS TO HAVE CORBIN RUSSWIN LEVER JOSEF 133, WITH E2 ROSE AND A SATIN SS FINISH, UNO.
3. INTERIOR ALUMINUM OFFICE FRONT BASIS OF DESIGN MANUFACTURER IS FRAMEWORKS, TYPE II FRAME SYSTEM WITH 2" FLUSH TRIM. CLEAR ANODIZED FINISH.
4. WOOD DOORS WITH TRANSPARENT FINISH TO HAVE A WD-1 FINISH WITH A CLEAR COATING. REFER TO FINISH PLAN LEGEND AND SCHEDULE FOR ADDITIONAL INFORMATION.
5. WOOD DOORS WITH TRANSPARENT STAIN ARE WOOD DOORS STAINED TO MATCH WD-1 FINISH WITH A CLEAR COATING. REFER TO FINISH PLAN LEGEND AND SCHEDULE FOR ADDITIONAL INFORMATION.
6. ALL FG AND FN DOOR TYPES TO HAVE A ROCKWOOD MEGATEK TYPE LONG PULLS WITH SQUARE ENDS AND A SS FINISH, UNO.
7. ALL AA DOOR FRAME FINISHES TO BE ANODIZED ALUMINUM.
8. ALL EXTERIOR PAINTED HM DOORS AND FRAMES ARE TO MATCH THE EXTERIOR WALL FINISH IN WHICH THEY OCCUR, UNO.

OPENING SCHEDULE ABBREVIATIONS

MATERIAL
AL ALUMINUM METAL
BR BRONZE
GL GLASS
HM HOLLOW METAL
NA NOT APPLICABLE
PL PLASTIC LAMINATE
SS STAINLESS STEEL
ST STEEL
WD WOOD

FINISH
AA ANODIZED ALUMINUM
FF FACTORY FINISH
NA NOT APPLICABLE
PL PLASTIC LAMINATE
PT PAINTED
TR TRANSPARENT FINISH (CLEAR COATING)
TS TRANSPARENT STAIN (CLEAR COATING WITH STAIN TO MATCH WD-1)

INTERIOR GLAZING TYPES: FOR FURTHER INFO REFER TO GLASS SCHEDULE AND SPECS)

GL-20 - 1/4" TEMPERED GLAZING, CLEAR
GL-21 - 1/4" ONE WAY MIRROR GLAZING
GL-22 - 1/4" TEMPERED GLAZING WITH FROSTED FILM (APPLIED ON NON-PUBLIC SIDE)
GL-23 - 3/8" LAMINATED SAFETY GLAZING, CLEAR
GL-24 - 7/8" TEMPERED GLAZING W/ BUTT GLAZING, CLEAR
GL-25 - 1/4" FIRE-RATED GLAZING, CLEAR
GL-26 - 5/8" TEMPERED GLAZING W/ BUTT GLAZING, CLEAR

FIRE-RATING
NO RATING
20 20 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
45 45 MIN GLASS AND FRAME ASSEMBLY AS SCHEDULED
NOTE THAT DOOR IN THIS ASSEMBLY SHALL BE 20 MIN RATED ONLY
60 60 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
90 90 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
180 90 MIN RATED DOOR FOR EACH LEAF. FRAME ASSEMBLY AS SCHEDULED
S SMOKE RATED

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

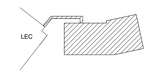
Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

DOOR SCHEDULE

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

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900 DOOR SCHEDULE - LEVEL 2

NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLASS	DOOR WIDTH 1	DOOR WIDTH 2	DOOR HEIGHT	FRAME TYPE	FRAME MATERIAL	FRAME GLASS	FRAME FINISH	HARDWARE SET	FIRE RATING	STC RATING	CARD READER	REMARKS	REVISION
LEVEL 200																	
1713	F	HM	PT		3' - 0"		8' -0"	1	HM		PT	19.2			✓	Commercial Hollow Metal	
1714	F	HM	PT		3' - 0"		7' -0"	1	HM		PT	19.3		55	✓	Commercial Hollow Metal	
1715	F	HM	PT		3' - 0"		7' -0"	1	HM		PT	19.3		55	✓	Commercial Hollow Metal	
2101	F	WD	TR		3' - 0"		8' -0"	1	AL		AA	41.1					
2102	F	WD	TR		3' - 0"		8' -0"	1	AL		AA	41.1					
2103	F	WD	TS		3' - 0"		7' -0"	1	AL		AA	41.0					
2104	F	WD	TS		3' - 0"		7' -0"	1	AL		AA	41.0					
2105	F	WD	TS		3' - 0"		7' -0"	1	AL		AA	37.0					
2106	F	HM	PT		4' -0"		8' - 10"	1	HM		PT	37.2	90			Commercial Hollow Metal	
2107	F	WD	TS		3' - 0"		7' -0"	1	AL		AA	15.0			✓		
2108	F	WD	TS		3' - 0"		7' -0"	1	AL		AA	21.0					
2109	F	HM	PT		3' - 0"		7' -0"	1	HM		PT	23.0		55		Commercial Hollow Metal	
2110	F	WD	TS		3' -0"		7' -0"	1	AL		AA	19.0			✓		
2110A	F	HM	PT		3' -0"		8' -0"	1	HM		PT	19.1			✓	Commercial Hollow Metal	
2110C	F	WD	TS		3' -0"		7' -0"	1	AL		AA	15.0			✓		
2111	F	WD	TR		3' -0"		8' -0"	1	AL		AA	32.0		35			
2112	F	WD	TR		3' -0"		8' -0"	1	AL		AA	38.0		35			
2113	F	WD	TS		3' -0"		8' -0"	1	AL		AA	38.0		35			
2115	F	HM	PT		3' -0"		8' -0"	1	HM		PT	19.1			✓	Commercial Hollow Metal	
2116	F	WD	TS		3' -0"		7' -0"	1	AL		AA	21.0					
2117	F	WD	TS		3' -0"		7' -0"	1	AL		AA	21.0					
2120A	N	HM	PT	GL-25	3' -0"		7' -0"	1	HM		PT	12.0	90		✓	Commercial Hollow Metal	
2200A	F	WD	TR		3' -0"	3' -0"	8' -0"	2	AL		AA	11.0		55			
2300A	F	WD	TR		3' -0"	3' -0"	8' -0"	2	AL		AA	11.0		55			
2300B	F	HM	PT		3' -0"		7' -0"	1	HM		PT	19.3		55	✓	Commercial Hollow Metal	
2300C	F	HM	PT		3' -0"		7' -0"	1	HM		PT	19.3		55	✓	Commercial Hollow Metal	
2301	F	WD	TR		3' -0"		8' -0"	1	AL		AA	22.0					
2400	F	WD	TR		3' -0"		8' -0"	1	AL		AA	36.0		55			
2401	F	WD	TR		3' -0"		8' -0"	1	AL		AA	36.0		55			
2402	F	WD	TS		3' -0"		8' -0"	1	AL		AA	36.0		55		DURESS BUTTON	
2403	F	WD	TS		3' -0"		8' -0"	1	AL		AA	36.0		55		DURESS BUTTON	
2404	F	WD	TS		3' -0"		8' -0"	1	AL		AA	36.0		55		DURESS BUTTON	
2405	N	WD	TR	G1	3' -0"		7' - 10"	1	AL		AA	36.0		55		DURESS BUTTON	
2500	F	WD	TS		3' -0"		7' -0"	1	AL		AA	36.0		55			
2501	F	WD	TS		3' -0"		7' -0"	1	AL		AA	40.0					
2502	F	WD	TS		3' -0"		7' -0"	1	AL		AA	36.0		55			
2503	F	WD	TS		3' -0"		7' -0"	1	AL		AA	40.0					
2504	F	WD	TS		3' -0"		7' -0"	4	AL		AA	34.0					
2506	F	WD	TS		3' -0"		7' -0"	1	AL		AA	40.0					
2507	F	WD	TS		3' -0"		7' -0"	1	AL		AA	32.0		55			
2508	F	WD	TS		3' -0"		7' -0"	1	AL		AA	30.0					
2509	F	WD	TS		3' -0"		7' -0"	1	AL		AA	30.0					
2510	F	HM	PT		3' -0"		7' -0"	1	HM		PT	27.0				Commercial Hollow Metal	
2511	F	WD	TS		3' -0"		7' -0"	4	AL		AA	34.0					
2513	F	WD	TS		3' -0"		7' -0"	1	AL		AA	40.0					
2514	F	WD	TS		3' -0"		7' -0"	1	AL		AA	32.0		55			
2515	F	WD	TS		3' -0"		7' -0"	1	AL		AA	30.0					
2516	F	WD	TS		3' -0"		7' -0"	1	AL		AA	30.0					
2517	F	HM	PT		3' -0"		7' -0"	1	HM		PT	27.0				Commercial Hollow Metal	
2600A	FG	AL	AA	GL-20	3' -0"		9' -0"	-	AL		AA	33.2					
2600B	F	HM	PT		3' -0"		7' -0"	1	HM		PT	15.0			✓	Commercial Hollow Metal	
2600C	F	WD	TS		3' -0"		7' -0"	1	AL		AA	15.0			✓		
2602	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	36.0		55			
2604A	F	WD	TS		3' -0"		7' -0"	1	AL		AA	36.0		55			
2604B	F	WD	TS		3' -0"		7' -0"	1	AL		AA	39.0		55			
2604C	F	WD	TS		3' -0"		7' -0"	1	AL		AA	39.0		55			
2605	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	36.0		55			
2607	F	WD	TS		3' -0"		7' -0"	1	AL		AA	34.0					
2608	F	WD	TS		3' -0"		7' -0"	1	AL		AA	34.0					
2609A	F	WD	TS		3' -0"		7' -0"	1	AL		AA	36.0		55			
2609B	F	HM	PT		3' -0"		7' -0"	1	HM		PT	14.0		55	✓	Commercial Hollow Metal	
2610A	F	WD	TS		3' -0"		7' -0"	1	AL		AA	36.0		55			
2610B	F	HM	PT		3' -0"		7' -0"	1	HM		PT	14.0		55	✓	Commercial Hollow Metal	
2611	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	38.0		55			
2613	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	21.0					
2614	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	21.0					
2616	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2617	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2618	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2619	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2620	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	23.0		35			
2621	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	23.0		35			
2622	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2623	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2624	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2625	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2626	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2627	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2629	F	HM	PT		3' -0"		7' -0"	1	HM		PT	21.0				Commercial Hollow Metal	
2631	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2632	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2633	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		55			
2634	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	37.0					
2635	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2636	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2637	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2638	F	WD	TS		3' -0"		7' -0"	1	AL		AA	32.0		35			
2639	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2640	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2641	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2642	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	30.0					
2643	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
2644	F	WD	TS		3' -0"		7' -0"	3	AL	GL-20	AA	32.0		35			
ST 01-2	N	HM	PT	GL-25	3' -0"		7' -0"	1	HM		PT	24.0	90			Commercial Hollow Metal	
ST 02-2	N	WD	TS	GL-25	3' -0"		8' -0"	1	HM		PT	24.3	90			Commercial Hollow Metal	
ST 03-2	N	HM	PT	GL-25	3' -0"		7' -0"	1	HM		PT	12.0	90		✓	Commercial Hollow Metal	

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900 DOOR SCHEDULE - LEVEL 3

NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLASS	DOOR WIDTH 1	DOOR WIDTH 2	DOOR HEIGHT	FRAME TYPE	FRAME MATERIAL	FRAME GLASS	FRAME FINISH	HARDWARE SET	FIRE RATING	STC RATING	CARD READER	REMARKS	REVISION
LEVEL 300																	
3101	F	WD	TR		3' -0"		8' -0"	1	AL		AA	41.1					
3102	F	WD	TR		3' -0"		8' -0"	1	AL		AA	41.1					
3103	F	WD	TS		3' -0"		7' -0"	1	AL		AA	41.0					
3104	F	WD	TS		3' -0"		7' -0"	1	AL		AA	41.0					
3105	F	WD	TS		3' -0"		7' -0"	1	AL		AA	37.0					
3106	F	HM	PT		4' -0"		8' - 10"	1	HM		PT	37.2	90			Commercial Hollow Metal	
3107	F	WD	TS		3' -0"		7' -0"	1	AL		AA	15.0			✓		
3108	F	WD	TS		3' -0"		7' -0"	1	AL		AA	21.0					
3109A	F	HM	PT		3' -6"		7' -0"	1	HM		PT	23.0		55		Commercial Hollow Metal	
3109B	F	HM	PT		3' -0"		7' -0"	1	HM		PT	5.0				Commercial Hollow Metal, MONITORED ONLY	
3110	F	WD	TR		3' -0"		8' -0"	1	HM		PT	22.0	90			Commercial Hollow Metal	
3110A	F	HM	PT		3' -0"		8' -0"	1	HM		PT	19.1			✓	Commercial Hollow Metal	
3110B	F	HM	PT		3' -0"		8' -0"	1	HM		PT	19.1			✓	Commercial Hollow Metal	
3111	F	WD	TR		3' -0"		8' -0"	1	AL		AA	32.0		35			
3112	F	WD	TR		3' -0"		8' -0"	1	AL		AA	38.0		35			
3113	F	WD	TS		3' -0"		8' -0"	1	AL		AA	38.0		35			
3116	F	WD	TS		3' -0"		7' -0"	1	AL		AA	21.2	90				
3117	F	WD	TS		3' -0"		7' -0"	1	AL		AA	21.0					
3120A	F	WD	TS		3' -0"		7' -0"	1	AL		AA	19.0			✓		
3120B	F	HM	PT		3' -0"		8' -0"	1	HM		PT	19.2			✓	Commercial Hollow Metal	
3200A	F	WD	TR		3' -0"	3' -0"	8' -0"	2	AL		AA	10.0					
3200B	F	HM	PT		3' -0"		7' -0"	1	HM		PT	19.3		55	✓	Commercial Hollow Metal	
3200C	F	HM	PT		3' -0"		7' -0"	1	HM		PT	19.3		55	✓	Commercial Hollow Metal	
3300A	F	WD	TR		3' -0"	3' -0"	8' -0"	2	AL		AA	11.0		55			
3300B	F	HM	PT		3' -0"		7' -0"	1	HM		PT	19.3		55	✓	Commercial Hollow Metal	
3301	F	WD	TR		3' -0"	3' -0"	7' -0"	2	AL		AA	8.0					
3400	F	WD	TR		3' -0"		8' -0"	1	AL		AA	36.0		55			
3401	F	WD	TR		3' -0"		8' -0"	1	AL		AA	36.0		55			
3402	F	WD	TS		3' -0"		8' -0"	1	AL		AA	36.0		55			
3403	F	WD	TS		3' -0"		8' -0"	1	AL		AA	36.0		55			
3404	F	WD	TS		3' -0"		8' -0"	1	AL		AA	36.0		55			
3405	F	WD	TR		3' -0"		8' -0"	1	AL		AA	36.0		55			
3500	F	WD	TS		3' -0"		7' -0"	1	AL		AA	36.0		55			
3501	F	WD	TS		3' -0"		7' -0"	1	AL		AA	40.0					
3502	F	WD	TS		3' -0"		7' -0"	1	AL		AA	36.0		55			
3503	F	WD	TS		3' -0"		7' -0"	1	AL		AA	40.0					
3504	F	WD	TS		3' -0"		7' -0"	4	AL		AA	34.0					
3506	F	WD	TS		3' -0"		7' -0"	1	AL		AA	40.0					
3507	F	WD	TS		3' -0"		7' -0"	1	AL		AA	32.0		55			
3508	F	WD	TS		3' -0"		7' -0"	1	AL		AA	30.0					
3509	F	WD	TS		3' -0"		7' -0"	1	AL		AA	30.0					
3510	F	HM	PT		3' -0"		7' -0"	1	HM		PT	27.0				Commercial Hollow Metal	
3511	F	WD	TS		3' -0"		7' -0"	4	AL		AA	34.0					
3513	F	WD	TS		3' -0"		7' -0"	1	AL		AA	40.0					
3514	F	WD	TS		3' -0"		7' -0"	1	AL		AA	32.0		55			
3515	F	WD	TS		3' -0"		7' -0"	1	AL		AA	30.0					
3516	F	WD	TS		3' -0"		7' -0"	1	AL		AA	30.0					
3517	F	HM	PT		3' -0"		7' -0"	1	HM		PT	27.0				Commercial Hollow Metal	
ST 01-3	N	HM	PT	GL-25	3' -0"		7' -0"	1	HM		PT	24.0	90			Commercial Hollow Metal	
ST 02-3	N	WD	TR	GL-25	3' -6"		8' -0"	1	HM		PT	26.0	90			Commercial Hollow Metal	

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GENERAL NOTES

1. ALL INTERIOR PAINTED HM DOORS AND HM FRAMES TO MATCH WALL IN WHICH DOOR OCCURS.
2. ALL DOORS TO HAVE CORBIN RUSSWIN LEVER JOSEF 133, WITH E2 ROSE AND A SATIN SS FINISH, UNO.
3. INTERIOR ALUMINUM OFFICE FRONT BASIS OF DESIGN MANUFACTURER IS FRAMEWORKS, TYPE II FRAME SYSTEM WITH 2" FLUSH TRIM. CLEAR ANODIZED FINISH.
4. WOOD DOORS WITH TRANSPARENT FINISH TO HAVE A WD-1 FINISH WITH A CLEAR COATING. REFER TO FINISH PLAN LEGEND AND SCHEDULE FOR ADDITIONAL INFORMATION.
5. WOOD DOORS WITH TRANSPARENT STAIN ARE WOOD DOORS STAINED TO MATCH WD-1 FINISH WITH A CLEAR COATING. REFER TO FINISH PLAN LEGEND AND SCHEDULE FOR ADDITIONAL INFORMATION.
6. ALL FG AND FN DOOR TYPES TO HAVE A ROCKWOOD MEGATEK TYPE LONG PULLS WITH SQUARE ENDS AND A SS FINISH, UNO.
7. ALL AA DOOR FRAME FINISHES TO BE ANODIZED ALUMINUM.
8. ALL EXTERIOR PAINTED HM DOORS AND FRAMES ARE TO MATCH THE EXTERIOR WALL FINISH IN WHICH THEY OCCUR, UNO.

OPENING SCHEDULE ABBREVIATIONS

MATERIAL
AL ALUMINUM METAL
BR BRONZE
GL GLASS
HM HOLLOW METAL
NA NOT APPLICABLE
PL PLASTIC LAMINATE
SS STAINLESS STEEL
ST STEEL
WD WOOD

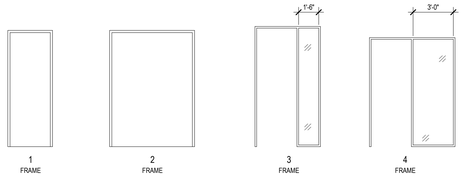
FINISH
AA ANODIZED ALUMINUM
FF FACTORY FINISH
NA NOT APPLICABLE
PL PLASTIC LAMINATE
PT PAINTED
TR TRANSPARENT FINISH (CLEAR COATING)
TS TRANSPARENT STAIN (CLEAR COATING WITH STAIN TO MATCH WD-1)

INTERIOR GLAZING TYPES: FOR FURTHER INFO REFER TO GLASS SCHEDULE AND SPECS)

GL-20 - 1/4" TEMPERED GLAZING, CLEAR
GL-21 - 1/4" ONE WAY MIRROR GLAZING
GL-22 - 1/4" TEMPERED GLAZING WITH FROSTED FILM (APPLIED ON NON-PUBLIC SIDE)
GL-23 - 3/8" LAMINATED SAFETY GLAZING, CLEAR
GL-24 - 7/8" TEMPERED GLAZING W/ BUTT GLAZING, CLEAR
GL-25 - 1/4" FIRE-RATED GLAZING, CLEAR
GL-26 - 5/8" TEMPERED GLAZING W/ BUTT GLAZING, CLEAR

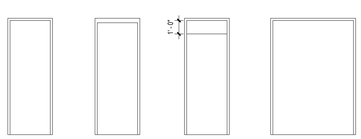
FIRE-RATING
NO RATING
20 20 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
45 45 MIN GLASS AND FRAME ASSEMBLY AS SCHEDULED
NOTE THAT DOOR IN THIS ASSEMBLY SHALL BE 20 MIN RATED ONLY
60 60 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
90 90 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
180 90 MIN RATED DOOR FOR EACH LEAF, FRAME ASSEMBLY AS SCHEDULED
S SMOKE RATED

ALUMINUM METAL FRAME TYPES



1 FRAME | 2 FRAME | 3 FRAME | 4 FRAME

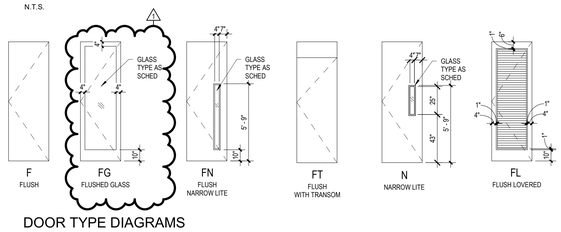
HOLLOW METAL FRAME TYPES



1 FRAME | 1A FRAME | 1T FRAME WITH TRANSOM | 2 FRAME

DOOR FRAME TYPES

N.T.S.



F FLUSH | FG FLUSHED GLASS | FN FLUSH NARROW LITE | FT FLUSH WITH TRANSOM | N NARROW LITE | FL FLUSH LOVERED

DOOR TYPE DIAGRAMS

N.T.S.

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

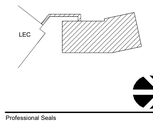
Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

DOOR SCHEDULE

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Sheet Number

A902

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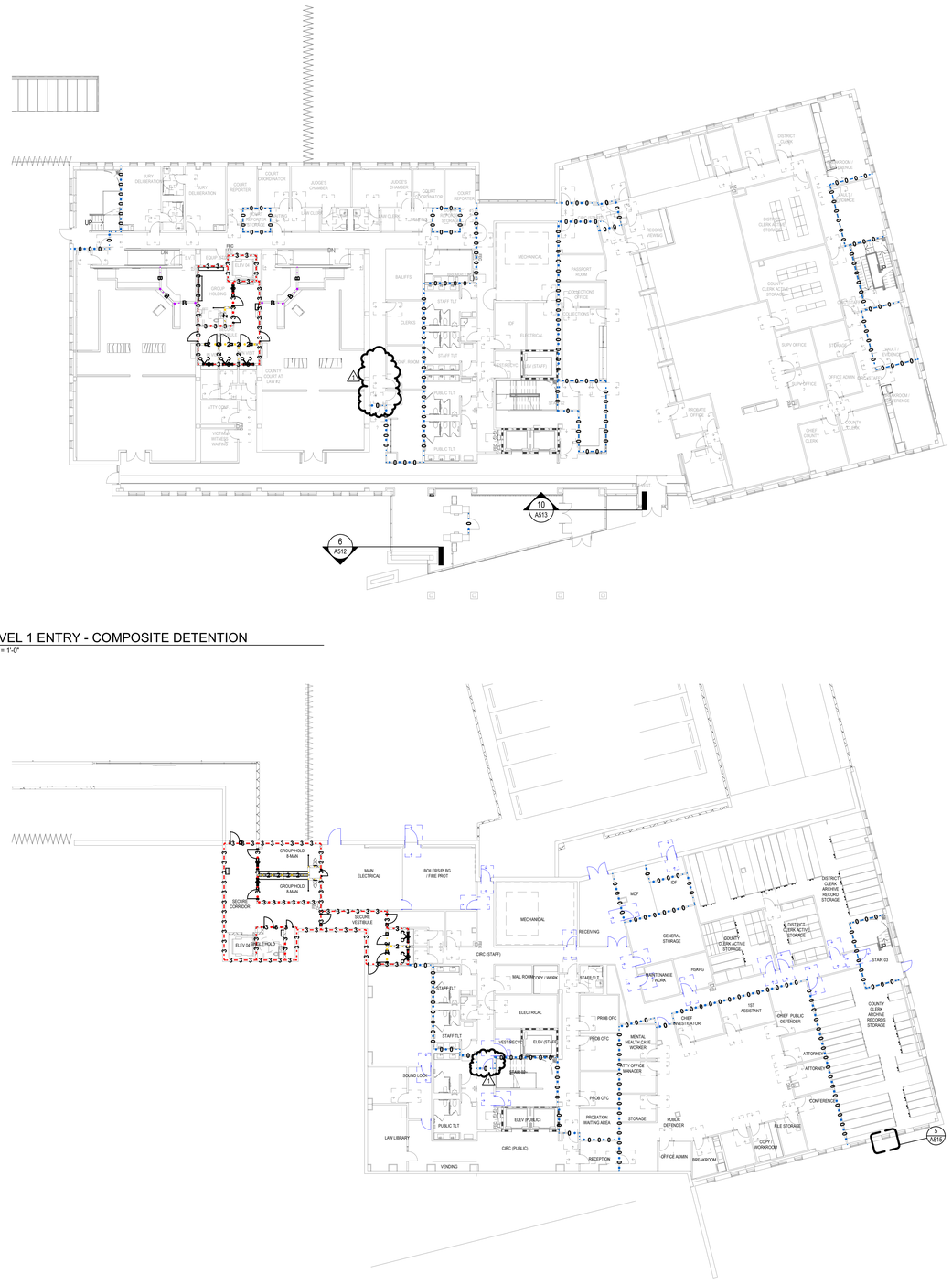

SECURITY WALL TYPES - FULL HEIGHT

- - 3 — 3 - - **SECURITY LEVEL 3 (ASTM F2322 - GRADE 1 -C 60 MINUTE ATTACK):**
-#4 REBAR (MIN.) 8" O.C. VERTICAL / HORIZONTAL
-GROUTED SOLID, 3,000 PSI
-DOWEL 24" LONG REBAR 3" MIN. INTO FLOOR SLAB, SPLICE REBAR 16", TYP.
-HEAD CONDITION: TERMINATE AT STRUCTURE

- - 2 — 2 - - **SECURITY LEVEL 2 (ASTM F2322 - GRADE 2 - 40 MINUTE ATTACK):**
- #4 REBAR @ 16" O.C. VERTICAL
-#4 REBAR @ 16" O.C. HORIZONTAL
-MINIMUM 3000 PSI GROUT, FULLY GROUTED CORES
-DOWEL 24" LONG REBAR 3" MIN. INTO FLOOR SLAB, SPLICE REBAR 16", TYP.
-HEAD CONDITION: TERMINATE AT STRUCTURE

- - 1 — 1 - - **SECURITY LEVEL 1 (ASTM F2322 - GRADE 1 - 20 MINUTE ATTACK):**
- #4 REBAR @ 18" O.C. VERTICAL
-#4 REBAR @ 8" O.C. HORIZONTAL
-MINIMUM 3000 PSI GROUT, FULLY GROUTED CORES
-DOWEL 24" LONG REBAR 3" MIN. INTO FLOOR SLAB, SPLICE REBAR 16", TYP.
-HEAD CONDITION: TERMINATE AT STRUCTURE

- - 0 — 0 - - **SECURITY LEVEL 0 - STEEL STUD WALL / BULKHEAD:**
-13 GA. SECURITY MESH (ON PUBLIC SIDE), ATTACHED WITH MFR PROVIDED SECURITY CLIPS TO 20 GA. STEEL STUDS @ 16" O.C.
-GWB AS SPECIFIED
-HEAD CONDITION: TERMINATE AT STRUCTURE

SECURITY WALL TYPES - PARTIAL HEIGHT

• 3 • 3 • • **SECURITY LEVEL 3 (ASTM F2322 - GRADE 1 -C 60 MINUTE ATTACK):**
-#4 REBAR (MIN.) 8" O.C. VERTICAL / HORIZONTAL
-GROUTED SOLID, 3,000 PSI
-DOWEL 24" LONG REBAR 3" MIN. INTO FLOOR SLAB, SPLICE REBAR 16", TYP.
-SEC REBAR TERMINATE: (1) COURSE ABOVE ADJACENT CEILING

• • 2 • 2 • • **SECURITY LEVEL 2 (ASTM F2322 - GRADE 2 - 40 MINUTE ATTACK):**
- #4 REBAR @ 16" O.C. VERTICAL
-#3 REBAR @ 16" O.C. HORIZONTAL
-MINIMUM 3000 PSI GROUT, FULLY GROUTED CORES
-SEC REBAR TERMINATE: (1) COURSE ABOVE ADJACENT CEILING

• • 0 • 0 • • **SECURITY LEVEL 0 - STEEL STUD WALL / BULKHEAD:**
-13 GA. SECURITY MESH (ON PUBLIC SIDE), ATTACHED WITH MFR PROVIDED SECURITY CLIPS TO 20 GA. STEEL STUDS @ 16" O.C.
-GWB AS SPECIFIED
-HEAD CONDITION: TERMINATE AT 4" ABOVE ADJACENT CEILING

• • B • B • • **BULLET RESISTANT COMPOSITE PANEL - UNDER CASEWORK FINISH**
-UL 752 LEVEL 3 BALLISTIC RATED PANEL
-TERMINATE AT TOP OF CASEWORK

DETENTION PLAN NOTES

1. FOR DETENTION EQUIPMENT FLOOR PLANS, RE: QD201A - QD205A
2. FOR DETENTION DOOR AND HARDWARE SCHEDULES, RE: QD900 SERIES (AS APPLICABLE)
3. FOR DETENTION DOOR AND FRAME ELEVATIONS, RE: QD900 SERIES (AS APPLICABLE)
4. FOR DETENTION DOOR / WINDOW FRAME DETAILS, RE: QD900 SERIES(AS APPLICABLE).
5. FOR EXTERIOR ENVELOPE DETAILING, RE: ARCH (AS APPLICABLE).
6. DETENTION EQUIPMENT CONTACTOR TO FULLY COORDINATE WITH THE SECURITY EQUIPMENT CONTRACTOR SCOPE. CONFLICTS IF ANY, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
7. THE DETENTION EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE WORK DESCRIBED IN THE BID DOCUMENTS AND SHALL BE REFERRED TO THROUGHOUT THESE DOCUMENTS AS “DEC”. THE PROJECT DOCUMENTS SHALL INCLUDE THE CONTRACT DRAWINGS, SPECIFICATIONS, THE PROJECT GENERAL CONDITIONS AND ALL ADDITIONAL RIDERS.
9. THE DEC SHALL COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR THE INTENT LOCATIONS OF ALL SECURITY DEVICES. ALL FINAL EQUIPMENT COLOR AND FINISH SELECTIONS SHALL BE REVIEWED AND APPROVED BY THE PROJECT ARCHITECT.
10. IF THE DETENTION GENERAL CONDITIONS AND THE PROJECT GENERAL CONDITIONS DIFFER ON THE SAME POINT THEN THE MOST STRICT DEFINITION AND/OR INTERPRETATION SHALL BE FOLLOWED.
11. THE DEC SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL DETENTION EQUIPMENT LAYOUT AS SHOWN ON THE DRAWINGS WITH THE SITE CONDITIONS. CONFLICTS, IF ANY, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE GENERAL CONTRACTOR, WHO SHALL REVIEW ALL CHANGES PRIOR TO THE INSTALLATION OF THE WORK.
12. NOTES AND GRAPHIC REPRESENTATIONS ON THE DRAWINGS SHALL NOT LIMIT THE EXTENT OF THE WORK REQUIRED. THE DETENTION EQUIPMENT CONTRACTOR SHALL PROVIDE A COMPLETE TURNKEY FULLY OPERATIONAL SYSTEM BASED UPON THE CONSTRUCTION DOCUMENTS. QUESTIONS REGARDING THE INTENT OF THE DESIGN SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
13. THE ORIENTATION OF THE SYMBOLS REFLECTS THE GENERAL MOUNTING LOCATION AND ORIENTATION OF DEVICE. CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT PRIOR TO INSTALLATION OF WORK IF ANY MOUNTING LOCATIONS NOTED ON THE DRAWINGS ARE OBSTRUCTED AND/OR IF ANY MOUNTING LOCATION CONFLICTS OR PROBLEMS ARE DISCOVERED.
14. DETENTION DOOR (DHM) / WINDOW FRAME (DW), AND COMMERCIAL FRAME SHALL BE GROUTED FULLY, UNLESS OTHERWISE NOTED.
15. PROVIDE AND FILL FRAME TO FRAME JOINTS AND STEEL PLATES TO FRAMES W/ POLYESTER FILLER AND SAND TO FORM SEAMLESS CONDITION, WHERE EXPOSED TO VIEW.
16. FOR WINDOW AND VISION PANELS, REFER TO WINDOW TYPE SYMBOLS ON FLOOR PLANS, WITH GLAZNG TYPE DESIGNATIONS.
17. FOR GLAZING TYPES AT DOORS, SIDELITES, AND VISION PANELS, REFER TO DETENTION DOOR SCHEDULE.
18. GLAZING TYPE FOR DOOR SIDELITE AND VISION PANELS SHALL MATCH ADJACENT DOOR SCHEDULED GLAZING.
19. ALL GLAZING STOPS SHALL BE LOCATED ON THE CORRIDOR SIDE OF THE FRAME, AT THE CONTROL ROOM AND OTHER STAFF AREA SIDE OF THE FRAME. THE DEC IS TO COORDINATE ALL GLAZING STOP PLACEMENTS DURING SHOP DRAWING REVIEW.
20. DEC TO CONFIRM FIRE RATINGS FOR ALL DOOR / FRAME / WINDOW / GLAZING WITH ARCHITECTURAL DRAWINGS, FINAL CONFIRMATION DURING SHOP DRAWING PHASE
21. ADA CELLS MUST MEET ADA CLEARANCES; RE: A SERIES SHEETS FOR CLEARANCES.

DETENTION PLAN LEGEND

ABCD ← ROOM NAME
NNNN ← ROOM NUMBER

DOOR TAG
D1170A ← ROOM NUMBER

DOOR TAG (RE: SHEET QD601)
DD01 ← DOOR PANEL TYPE
DF04 ← DOOR FRAME TYPE
SG-02 ← GLAZING TYPE
(SH04) ← DOOR HARDWARE TYPE

WINDOW TAG
D1 ← DETENTION FRAME TYPE
SG3 ← SECURITY GLAZING TYPE

SYMBOL	DESCRIPTION
	DETENTION DOOR
	COMMERCIAL HOLLOW METAL DOOR
	COMMERCIAL DOOR

DETENTION EQUIPMENT LEGEND

(RE: SPECIFICATION SECTION 11 19 63 & 11 97 26 FOR DETENTION FURNISHINGS)	
DE01	DETENTION MIRROR, STD.
DE01A	DETENTION MIRROR, ADA (2 X DE-01)
DE04	TOILET PAPER HOLDER
DE06C	42" GRAB BAR W/ 18" VERTICAL GRAB BAR
DE13	STOOL, ADA-SWING, WALL MNT.
DE18	24" BENCH, WALL MOUNTED; FIELD VERIFY DIMENSIONS
DE18A	96" BENCH, WALL MOUNTED; FIELD VERIFY DIMENSIONS
DE18B	96" BENCH, WALL MOUNTED
DE19	DETENTION COUNTER; RE: PLAN DIMENSIONS FOR LENGTH, FIELD VERIFY DIMENSIONS
DE20	DETENTION PRIVACY SCREEN (RE: PLANS FOR DIMENSIONS)
DE22	LONG GUN STORAGE (2-GUN CAPACITY)
DE23	HAND GUN STORAGE (1-GUN CAPACITY)
DE24	HAND GUN / LONG GUN STORAGE (4-GUN CAPACITY, EACH TYPE)
DE26	SPEAK-THRU PORT
DE27	PAPER PASS - 1/2" x 12" SLOT IN FRAME SILL
DE30	KEY CABINET - ELECTRONIC
DAPF1	24 X 24 FIRE-RATED DETENTION ACCESS PANEL DOOR
DAPF2	30 X 24 FIRE-RATED DETENTION ACCESS PANEL DOOR

2 LEVEL 1 ENTRY - COMPOSITE DETENTION
1/16" = 1'-0"

1 LOWER LEVEL - COMPOSITE DETENTION
1/16" = 1'-0"

2021-01-15 10:31:45 AM

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
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t +1 214 720 6000 f +1 214 720 6005

In Association with

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100 Glass Street
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Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

Key Plan

Professional Seals

CURT PARDE
17962
01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDEUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
COMPOSITE DETENTION FLOOR PLANS - LOWER LEVEL & LEVEL 1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
QD101

SECURITY WALL TYPES - FULL HEIGHT

3 3 — **SECURITY LEVEL 3 (ASTM F2322 - GRADE 1 -C 60 MINUTE ATTACK):**
-#4 REBAR (MIN.) 8" O.C. VERTICAL / HORIZONTAL
-GROUTED SOLID, 3,000 PSI
-DOWEL 24" LONG REBAR 3" MIN. INTO FLOOR SLAB, SPLICE REBAR 16", TYP.
-HEAD CONDITION: TERMINATE AT STRUCTURE

2 2 — **SECURITY LEVEL 2 (ASTM F2322 - GRADE 2 - 40 MINUTE ATTACK):**
- #4 REBAR @ 16" O.C. VERTICAL
-#4 REBAR @ 16" O.C. HORIZONTAL
-MINIMUM 3000 PSI GROUT, FULLY GROUTED CORES
-DOWEL 24" LONG REBAR 3" MIN. INTO FLOOR SLAB, SPLICE REBAR 16", TYP.
-HEAD CONDITION: TERMINATE AT STRUCTURE

1 1 — **SECURITY LEVEL 1 (ASTM F2322 - GRADE 1 - 20 MINUTE ATTACK):**
- #4 REBAR @ 18" O.C. VERTICAL
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-MINIMUM 3000 PSI GROUT, FULLY GROUTED CORES
-DOWEL 24" LONG REBAR 3" MIN. INTO FLOOR SLAB, SPLICE REBAR 16", TYP.
-HEAD CONDITION: TERMINATE AT STRUCTURE

0 0 — **SECURITY LEVEL 0 - STEEL STUD WALL / BULKHEAD:**
-13 GA. SECURITY MESH (ON PUBLIC SIDE), ATTACHED WITH MFR PROVIDED SECURITY CLIPS TO 20 GA. STEEL STUDS @ 16" O.C.
-GWB AS SPECIFIED
-HEAD CONDITION: TERMINATE AT STRUCTURE

SECURITY WALL TYPES - PARTIAL HEIGHT

3 3 — **SECURITY LEVEL 3 (ASTM F2322 - GRADE 1 -C 60 MINUTE ATTACK):**
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-GWB AS SPECIFIED
-HEAD CONDITION: TERMINATE AT 4" ABOVE ADJACENT CEILING

B B — **BULLET RESISTANT COMPOSITE PANEL - UNDER CASEWORK FINISH**
-UL 752 LEVEL 3 BALLISTIC RATED PANEL
-TERMINATE AT TOP OF CASEWORK

DETENTION PLAN NOTES

1. FOR DETENTION EQUIPMENT FLOOR PLANS, RE: QD201A - QD205A
2. FOR DETENTION DOOR AND HARDWARE SCHEDULES, RE: QD900 SERIES (AS APPLICABLE)
3. FOR DETENTION DOOR AND FRAME ELEVATIONS, RE: QD900 SERIES (AS APPLICABLE)
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16. FOR WINDOW AND VISION PANELS, REFER TO WINDOW TYPE SYMBOLS ON FLOOR PLANS, WITH GLAZING TYPE DESIGNATIONS.
17. FOR GLAZING TYPES AT DOORS, SIDELITES, AND VISION PANELS, REFER TO DETENTION DOOR SCHEDULE
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20. DEC TO CONFIRM FIRE RATINGS FOR ALL DOOR / FRAME / WINDOW / GLAZING WITH ARCHITECTURAL DRAWINGS, FINAL CONFIRMATION DURING SHOP DRAWING PHASE
21. ADA CELLS MUST MEET ADA CLEARANCES; RE: A SERIES SHEETS FOR CLEARANCES.

DETENTION PLAN LEGEND

ABCD — ROOM NAME
NNNN — ROOM NUMBER

DOOR TAG
D1170A — ROOM NUMBER

WINDOW TAG
D1 — DETENTION FRAME TYPE
SG3 — SECURITY GLAZING TYPE

SYMBOL	DESCRIPTION
	DETENTION DOOR
	COMMERCIAL HOLLOW METAL DOOR
	COMMERCIAL DOOR

DETENTION EQUIPMENT LEGEND

(RE: SPECIFICATION SECTION 11 19 63 & 11 97 26 FOR DETENTION FURNISHINGS)	
DE01	DETENTION MIRROR, STD.
DE01A	DETENTION MIRROR, ADA (2 X DE-01)
DE04	TOILET PAPER HOLDER
DE06C	42" GRAB BAR W/ 18" VERTICAL GRAB BAR
DE13	STOOL, ADA-SWING, WALL MNT.
DE18	24" BENCH, WALL MOUNTED; FIELD VERIFY DIMENSIONS
DE18A	96" BENCH, WALL MOUNTED; FIELD VERIFY DIMENSIONS
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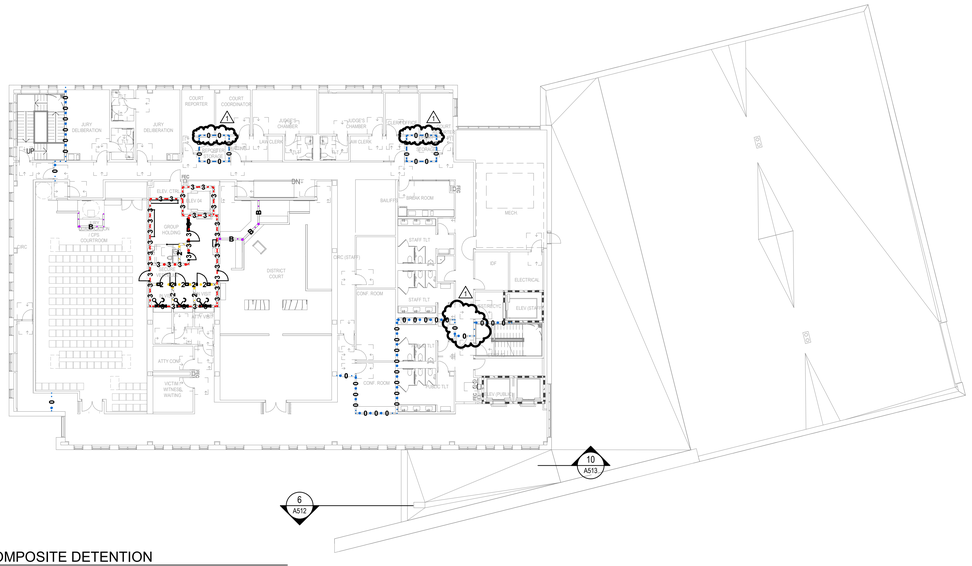
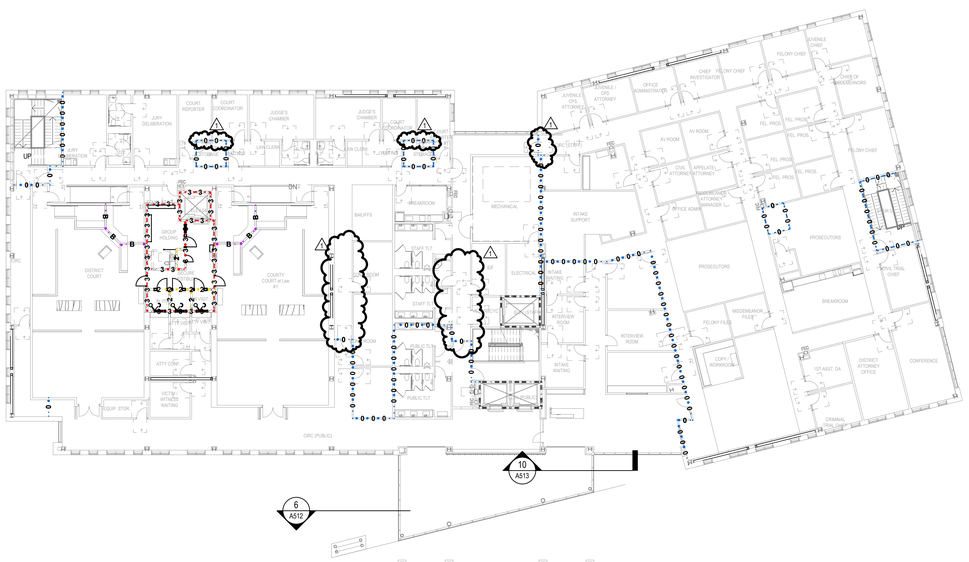
DE19	DETENTION COUNTER; RE: PLAN DIMENSIONS FOR LENGTH, FIELD VERIFY DIMENSIONS
DE20	DETENTION PRIVACY SCREEN (RE: PLANS FOR DIMENSIONS)
DE22	LONG GUN STORAGE (2-GUN CAPACITY)
DE23	HAND GUN STORAGE (1-GUN CAPACITY)
DE24	HAND GUN / LONG GUN STORAGE (4-GUN CAPACITY, EACH TYPE)
DE26	SPEAK-THRU PORT
DE27	PAPER PASS - 1/2" x 12" SLOT IN FRAME SILL
DE30	KEY CABINET - ELECTRONIC
DAPF1	24 X 24 FIRE-RATED DETENTION ACCESS PANEL DOOR
DAPF2	30 X 24 FIRE-RATED DETENTION ACCESS PANEL DOOR



2 LEVEL 3 - COMPOSITE DETENTION
1/16" = 1'-0"



1 LEVEL 2 - COMPOSITE DETENTION
1/16" = 1'-0"

2021-01-15 10:31:47 AM

THE STATE OF TEXAS
KAUFMAN COUNTY

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

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MEPCE
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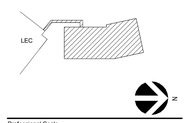
Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELUM 1	01-15-2020

Project No: 20.09003.00

Sheet Title

COMPOSITE DETENTION FLOOR PLANS -LEVELS 2 & 3

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

QD102

DETENTION GENERAL NOTES

1. DOORS THAT HAVE A 'D' LETTER IN FRONT OF THE DOOR NUMBER ARE DETENTION DOORS. REFER TO THE QD SERIES DRAWINGS FOR DOOR AND FRAME INFORMATION.
2. ALL EXTERIOR PAINTED HM DOORS AND FRAMES ARE TO MATCH THE EXTERIOR WALL FINISH IN WHICH THEY OCCUR, UNO.
3. DOOR AND FRAME ASSEMBLIES SHALL COMPLY WITH ALL SCHEDULED REQUIREMENTS, GENERAL NOTES & LEGENDS, DOOR AND FRAME DETAILS, AND PROJECT SPECIFICATIONS.
4. "DOOR NUMBER" INDICATED ON THE SCHEDULE IS SHOWN ON THE DOOR TAG FOR EACH DOOR OPENING ON THE FLOOR PLANS.
5. "DOOR PANEL TYPES" AND "FRAME TYPES" INDICATED ON THE SCHEDULE REFER TO THE "DOOR TYPE DIAGRAMS" AND "FRAME TYPE DIAGRAMS", AND "CONSTRUCTION TYPES", "FINISH TYPES", "GLASS TYPES" REFER TO CORRESPONDING LEGENDS SHOWN ON THE DOOR SCHEDULE SHEET.
6. DOOR WIDTH AND DOOR HEIGHT INDICATE THE NOMINAL DIMENSIONS OF EACH DOOR LEAF (SHOWN IN INCHES). DOOR WIDTH FOR ASSEMBLIES WITH A SINGLE DOOR LEAF IS INDICATED BY "DOOR WIDTH 1" ("DOOR WIDTH 2" IS BLANK). DOOR WIDTHS FOR ASSEMBLIES WITH PAIRS OF DOOR LEAVES ARE INDICATED BY "DOOR WIDTH 1" AND "DOOR WIDTH 2". ACTUAL DOOR DIMENSIONS SHALL COMPLY WITH HEAD - JAMB - MULLION - SILL DETAILS AND DOOR SPACING AND CLEARANCES AS SPECIFIED.
7. FRAME ASSEMBLIES SHALL COMPLY WITH "HEAD - JAMB - MULLION - SILL" DETAILS AS SCHEDULED. DETAIL NUMBERS REFERENCE SHEET QD902, A624, A632
8. "FIRE RATING" SYMBOL INDICATES THE FIRE RATING MINUTES FOR EACH ASSEMBLY, AS INDICATED BY THE "FIRE RATING LEGEND" ON THE DOOR SCHEDULE SHEET.
9. HARDWARE GROUPS, RE: 111953 DETENTION HARDWARE

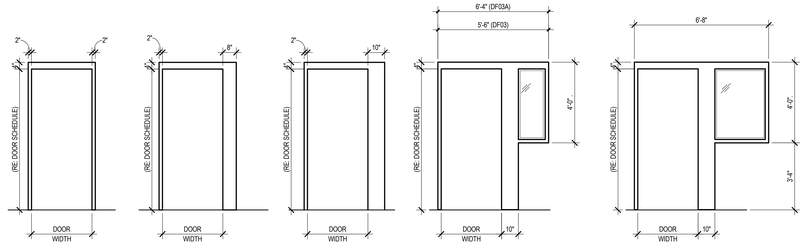
OPENING SCHEDULE ABBREVIATIONS

MATERIAL
AL ALUMINUM METAL
BR BRONZE
GL GLASS
DHM DETENTION HOLLOW METAL
HM HOLLOW METAL
NA NOT APPLICABLE
PL PLASTIC LAMINATE
SS STAINLESS STEEL
ST STEEL
WD WOOD

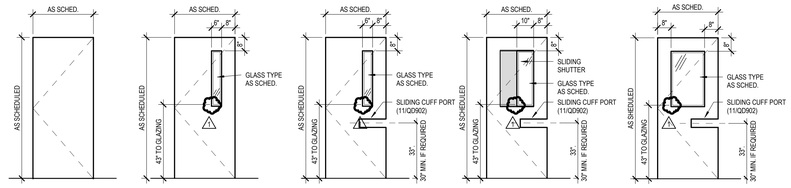
FINISH
AA ANODIZED ALUMINUM
FF FACTORY FINISH
NA NOT APPLICABLE
PL PLASTIC LAMINATE
PT PAINTED
TR TRANSPARENT FINISH (CLEAR COATING)
TS TRANSPARENT STAIN (CLEAR COATING WITH STAIN TO MATCH WD-1)

SECURITY GLAZING TYPE (FOR FURTHER INFO. SEE SPEC SECTION 111908)
SG-02 LAMINATED POLYCARBONATE - 40 MINUTE ATTACK RATING
SG-03 LAMINATED POLYCARBONATE - 60 MINUTE ATTACK RATING
SG-21 LAMINATED SAFETY GLASS - 7 MINUTE ATTACK RATING
SG-31 GLASS-CLAD-POLICARBONATE - UL752 L3
SG-43 INSUL. EXT. GLAZING / LAMINATED POLYCARBONATE - 60 MINUTE ATTACK RATING

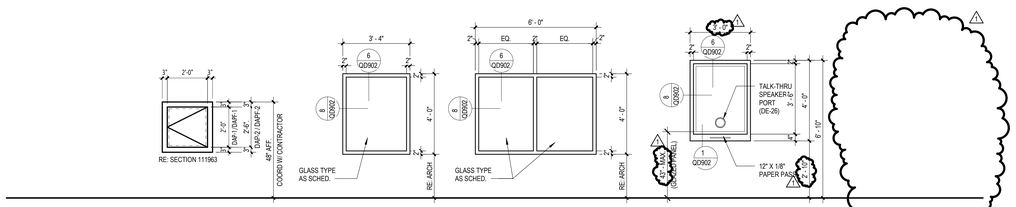
FIRE-RATING
NO RATING
20 20 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
45 45 MIN GLASS AND FRAME ASSEMBLY AS SCHEDULED
NOTE THAT DOOR IN THIS ASSEMBLY SHALL BE 20 MIN RATED ONLY
60 60 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
90 90 MIN RATED DOOR, GLASS AND FRAME ASSEMBLY AS SCHEDULED
S SMOKE RATED



DF01 — DETENTION HOLLOW METAL FRAME - 2" LOCK JAMB
DF01A — DETENTION HOLLOW METAL FRAME - 8" LOCK JAMB
DF01B — DETENTION HOLLOW METAL FRAME - 10" LOCK JAMB
DF03, DF03A — DETENTION HOLLOW METAL FRAME - 8" LOCK JAMB
DF04 — DETENTION HOLLOW METAL FRAME - 10" LOCK JAMB



DD01 — FLUSH DOOR
DD02 — NARROW LITE DOOR
DD02A — NARROW LITE W/ EDGE MOUNTED CUFFPORT
DD02B — NARROW LITE W/ EDGE MOUNTED CUFFPORT, SLIDING SHUTTER
DD03A — CELL DOOR W/ EDGE MOUNTED CUFFPORT



DAP-1 / DAP-2
DAPF-1 & DAPF-2
D1
D2
D3

800 DETENTION DOOR SCHEDULE

ROOM NUMBER	DOOR NUMBER	ROOM NAME	DOOR WIDTH 1	DOOR WIDTH 2	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLASS	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME GLASS	FRAME HEAD	FRAME JAMB	HARDWARE	FIRE RATING	COMMENTS
0120	**D0400A**	CIRC (STAFF)	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-13	DF01B	DHM	PT	-			SH02	60	
0400	**D0400B**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-13	DF01B	DHM	PT	-			SH02	60	
0400C	**D0400C**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT	-			SH03		
0400D	**D0400D**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT	-			SH03		
0400	**D0401**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-13	DF01B	DHM	PT	-			SH02A	60	
0401	**D0401EX**	SECURE CORRIDOR	3' - 0"		7' - 2"	DD03A	DHM	PT	SG-43	DF01B	DHM	PT	-			SH10		
0402	**D0402**	CHASE	2' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH11		
0403	**D0403**	SINGLE HOLD	3' - 0"		7' - 0"	DD02B	DHM	PT	SG-03		DHM	PT	-					DOOR FRAME=DF01B / HRDWR=SH03 ⚠1
0404	**D0404**	GROUP HOLD 8-MAN	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF04	DHM	PT	SG-02			SH03		
0405	**D0405**	GROUP HOLD 8-MAN	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF04	DHM	PT	SG-02			SH03		
0406	**D0406**	CHASE	2' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH11	60	
1405	**D1404**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT				SH03		
1406	**D1406**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT	-			SH03		
1407	**D1407**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT	-			SH03		
1410	**D1408**	SECURE VESTIBULE	2' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH11		
1409	**D1409**	GROUP HOLDING	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF04	DHM	PT	SG-02			SH03		
1410	**D1410A**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH04	60	
1410	**D1410B**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH04	60	
	DE001		3' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH10A		DEMO EXISTING DOOR, FRAME AND INSTALL NEW FRAME/DOOR
	DG001						DHM	GALV.			GALV.							HARDWARE SET SH21, 42" X 84" GATE
	DG002						DHM	GALV.			GALV.							HARDWARE SET SH21, 42" X 84" GATE
2405	**D2405**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT	-			SH03		
2406	**D2406**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT	-			SH03		
2407	**D2407**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT	-			SH03		
2408	**D2408**	CHASE	2' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH11		
2409	**D2409**	GROUP HOLDING	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF04	DHM	PT	SG-02			SH03		
2410	**D2410A**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH04	60	
2410	**D2410B**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH04	60	
3405	**D3405**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF01B	DHM	PT	-			SH03		
3410	**D3406**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-03	DF01B	DHM	PT	-			SH03		
3407	**D3407**	IN VISIT	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-03	DF01B	DHM	PT	-			SH03		
3408	**D3408**	CHASE	2' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH11		
3409	**D3409**	GROUP HOLDING	3' - 0"		7' - 0"	DD03A	DHM	PT	SG-02	DF04	DHM	PT	SG-02			SH03		
3410	**D3410A**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH04	60	
3410	**D3410B**	SECURE VESTIBULE	3' - 0"		7' - 0"	DD01	DHM	PT	-	DF01	DHM	PT	-			SH04	60	

KAUFMAN COUNTY JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
100 N. Washington St.
Kaufman, TX 75142

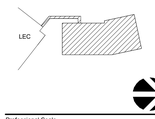
Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

01/15/2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDELIM 1	01-15-2020

Project No: 20.09003.00

Sheet Title
DETENTION DOOR SCHEDULE

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
QD901

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ARCHITECTURAL GRAPHICS INTRODUCTION

About this Document
This package represents Design Intent efforts authored by HOK in support of this project's strategy to integrate brand and identity at this site. The pages that follow are issued for information only, not for the purposes of construction. The value of this package is in its summary of all the endorsed elements included in this project. It is suitable for progress review and presentation to internal stakeholders. It also is suitable for budgetary pricing by the construction and fabrication industries.

Project Quality
The intent of this design is to specify the most suitable products, constructed of top quality materials, fabricated with the best craftsmanship. Alternates to the indicated design are welcome as a means to reduce cost and/or duration of schedule; but those should be submitted in addition to – not substituted for – the design indicated in these documents.

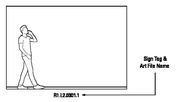
What the Selected Fabricator Can Expect from HOK
All digital art files authored by HOK will be made available to the project team. These are predominantly authored in Adobe Creative Suite software (CC and above) within Mac OS and include InDesign, Illustrator and Photoshop files. This is supplemented by digital photography of scale mock-ups and existing site conditions. Digital imagery suitable for all required printed output will be offered as resolution ready files. The logo and project-specific fonts will be offered as well. HOK would likely be contacted to answer RFI's during the construction process as well as approve samples, shop drawings and mock-ups. It is anticipated that Design Intent and/or Fabricator's Instructions will be offered for every element. The possibility exists that selected elements may be singled out for a design build delivery model.

What Will Be Expected of the Selected Fabricator
Field measurements are the responsibility of fabricator. Use North American products listed or a product that is equal in quality and performance. Require material samples for quality review and exact color matching for all graphics. Top quality material, fabrication and installation is expected. Given the quality expectations for this project, the level of communication and collaboration will be demanding. Material sampling will be extensive for each element and across all finishes. Output samples, material samples, finish samples will need to be large and in multiple count to distribute to all involved. Shop drawings by the fabricator will be thorough and completely illustrate assembly and construction techniques. Digital output samples will need to be precise in color rendition. Partial mock-ups will be expected as part of the fabrication scope. Where necessary, municipal and regulatory permits will be the responsibility of the fabricator to fund and obtain; as are applicable taxes relevant to the fabrication and construction. project-specific requirements for insurance, bonding, and safety certification should be included in any pricing estimation. Project requirements may include safety training and employee testing; that time and effort should be included in the fabricator's proposal. Coordination with a General Contractor and related trades is also expected. The fabrication effort will also require field surveys and field measurements prior to fabrication. Client/team visits to fabricators location to review progress of fabrication are also likely.

HOK Art Files – Naming Convention
All digital art files authored by HOK will be named to correspond with the locations listed in this document. And explanation of this nomeclature is outlined below.

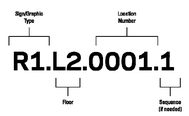
Sign Tags & Location Plans

SCALE: 1/8"



Typical Elevation - Framed Graphic

SCALE: 1/8"



Art File Naming Convention

SCALE: 1/8"

ARCHITECTURAL GRAPHICS GENERAL NOTES

NOTE: the terms signage fabricator / installer apply to any entity who performs or is awarded all or part of these functions to conform to the design documents, for this project. In some instances, these terms may apply to the same entity.

General Notes about 100% Design Intent Submittal

1. This package consists of the following components:
   101400 - wayfinding signage project manual, wayfinding details, sign location plans and message schedule.
2. Signage fabricator/installer shall submit fully-detailed working (shop) drawings/submittals of all signs and graphics contained in this package to the graphic designer, architect and owner. Shop drawings shall illustrate all means and methods of construction. Design intent drawings shall not be used as backgrounds or as artwork for submittal. Drawings shall be reviewed and have signed approval prior to fabrication or ordering of materials.
3. Any revisions issued as re-submittal, shall be bubbled with delta number to indicate revision changes or clearly called out by some other means.
4. Signage fabricator/installer is responsible for determining proper mounting, fastening and anchoring methods for all signage and graphics unless noted otherwise.
5. **Fabricator / installer to field verify all dimensions and measurements shown on all drawings and elevations.**

General Notes for Fabrication and Installation of this Project

1. The graphic design requirements shown are for design intent only and intended to establish basic dimensions, profiles, sight lines and appearance. With these limitations, the signage fabricator/installer is responsible for the fabrication of the entire system, and to make whatever modifications may be required while maintaining the visual design concept as shown, including sizes, profiles and alignment of components as accurately as possible.
2. All sign copy and graphics should be considered for placement only and are subject to change.
3. All final text to be confirmed by the owner.
4. Refer to sign location plans for final locations for all signage (if applicable).
5. The contract documents are complementary, and what is required by one shall be as binding as if required by all. The signage fabricator/installer shall coordinate all required portions of work in contract scope.
6. Signage fabricator/installer shall conform to these drawings and specifications and submit to HOK samples for all finishes included in their scope of work before the commencement of such work.
7. For the purpose of 100% design intent process, proprietary names are used solely to describe the standard of the product or the color of the finish, unless the items are explicitly noted as not having an equal. Signage fabricator/installer shall secure approval of any substitutions from HOK. Any items approved for substitution should be submitted to HOK for final approval.
8. All dimensions are to the exterior face of the finished material unless otherwise noted. All elevations are noted from finish floor elevations.
9. All dimensions of existing work and all dimensions required with work in place shall be verified by the signage fabricator/installer. In addition, the signage fabricator/installer shall verify all finishes and notify HOK of any discrepancies before performing any work.
10. The signage fabricator/installer or any sub-contractors shall notify HOK of any discrepancies in the fabrication documents immediately and shall not proceed or allow sub-contractors to work in those areas until said discrepancies are resolved.
11. When changes are required, for any reason, notify HOK before performing any work. Changes which alter the contract documents must have the approval of HOK and owner before the commencement of such work. Changes which modify the contract amount must have the approval of HOK and owner before the commencement of such work.
12. All graphics and colors provided must conform to scale, specifications and Pantone (PMS) numbers where provided.
13. All work shall be done in accordance with all applicable codes and to the highest standards of trade practice.
14. Prior to commencing any work, the signage fabricator/installer or installer who is awarded all or part of fabrication and/or installation shall review with the owner, architect, and HOK the phasing of their work and secure approval from all parties. Submit to HOK a master schedule of the awarded work one (1) week after the contract signing.
15. All interior finish and trim materials are to meet class c flame spread ratings of 76 to 200, or per applicable code.
16. Signage fabricator/installers are responsible for obtaining and paying for all applicable permits and certificates required of their work.
17. The signage fabricator/installer shall warrant that all merchandise is free of defects in material or workmanship and shall provide owner with a warranty to replace or repair any merchandise that fails to conform to above for a period of no less than one (1) year from date of final acceptance.
18. Signage fabricator/installer shall recommend and confirm the installation of adequate blocking/conditions for all supported items.
19. Signage fabricator/installer shall verify all existing surfaces are prepped and ready for new finishes or signs.
20. If existing signs are being replaced, they are to be removed and disposed of by the signage fabricator/installer prior to installation. This is to be indicated in the signage fabricator/installer bid documents.
21. If removing or altering any existing work, all openings, voids, or unfinished surfaces created shall be closed or patched and finished as necessary to match existing continuous surfaces or new finishes required by the signage fabricator / installer. This is to be indicated in the signage fabricator/installer bid documents.
22. If existing signage is to be removed, it will be the responsibility of the signage fabricator/installer to coordinate with the general contractor – prior to the installation of new signage – to verify the need for temporary signage. Temporary signage will conform to all standards of the design drawings and conform to ada and/or visual clarity. This is to be indicated in the signage fabricator/installer bid documents.
23. All hangers, channels, rods and other miscellaneous hardware shall be installed by signage fabricator/installer as necessary for the support of suspended equipment (signage) and shall be fastened to the existing structure in such a manner as to not compromise its existing structural integrity or fire rating. Coordinate with the general contractor as necessary.
24. Signage fabricator/installer shall keep their site work areas clear of unnecessary debris during and upon completion; and shall keep all work areas secured when unattended for the duration of the installation period.
25. Signage fabricator/installer shall verify or assure that all items and surfaces associated with their work are clean before vacating the site and gaining final owner sign-off.
26. For items within the scope of work, signage fabricator/installer shall provide all engineering required by local conditions and codes.
27. Signage fabricator/installer to examine substrates, areas, and conditions for compliance with signage requirements prior to fabrication and installation. Notify architect of unsatisfactory conditions before proceeding. Proceed with installation only after unsatisfactory conditions have been corrected.

Fabricator/Installer Closeout Procedures

Prepare a punch-list of items to be completed and corrected. HOK and architect will verify and add to the list.

After installation, clean soiled sign surfaces according to manufacturer's written instructions.

Evidence of installation work or damages incurred on other surfaces shell be cleaned or repaired prior to completion of work. Protect units from damage until acceptance by owner.

Provide touch-up paint to owner of each color as necessary.

Provide copies of all applicable warranties and all maintenance/cleaning instructions.

Qualifiers

All ideas, design arrangements, or plans indicated or represented by these drawings are owned by, and remain the sole property of HOK. No ideas, designs, arrangements, or plans shall be disclosed to any other person, firm, or corporation for any purpose whatsoever without the express written consent of HOK.

Project Address
Kaufman County Justice Center
100 N. Washington St.
Kaufman, TX 75142

Questions Regarding this Document
Project Lead: Patrick Schmidt--patrick.schmidt@hok.com
Design Lead: Jay Dacon -- jay.dacon@hok.com
Production Lead: Juan Esparza - juan.esparza@hok.com

Sampling
Fabrication samples and mock-ups that will be required for this project are listed in the Project Manual section 101400 - wayfinding signage.

Three sets of samples as listed in section 101400 - wayfinding signage to be fabricated. One set each to be sent to HOK (Jay Dacon), Kaufman County. The third set is to be kept by the fabricator as a control sample.

Other

All artwork and shop drawings required under the scope of these documents are to become the sole property of the owner at the completion of the contract, with all original, or created artwork or drawings to be surrendered to the owner at the end of fulfillment of the contract or sooner if requested in writing from the owner.

All artwork and drawings are not to be reproduced or circulated for use outside the scope of this contract without the written consent of the owner. Failure to comply will result in legal action to the fullest extent of the law.

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
1902 E Hwy 175
Kaufman, TX 75142

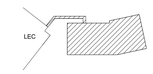
Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

NOT FOR CONSTRUCTION

No.	Description	Date
1	ADDENDUM 1	01-15-2021

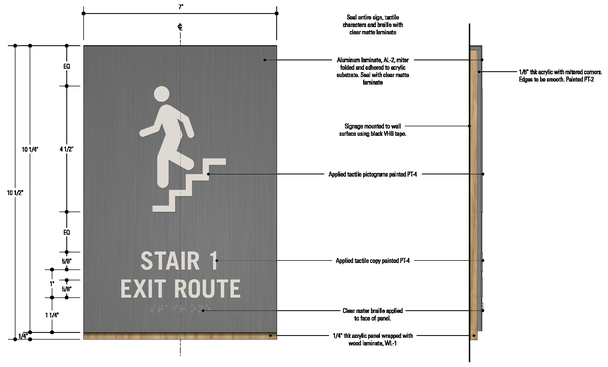
Project No: 20.09003.00

Sheet Title
ARCHITECTURAL GRAPHICS - OVERVIEW - GENERAL NOTES

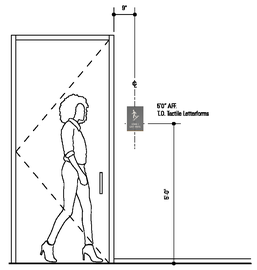
Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
AG100

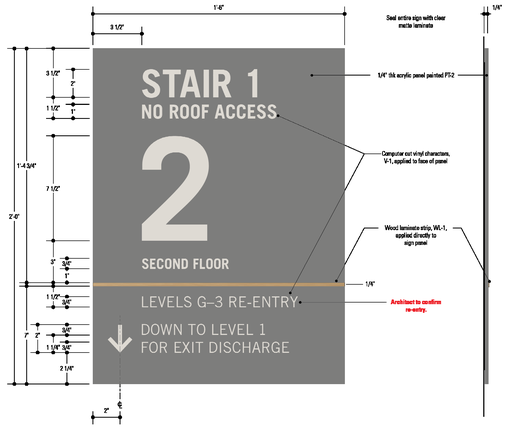
2021-01-13 8:27:00 AM



1 SIGN—S01
SCALE: 6"=1'0"



3 CONTEXT ELEVATION
SCALE: 1/2"=1'0"



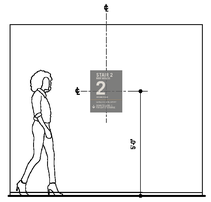
4 SIGN—S02 (INTERIOR STAIR 1)
SCALE: 6"=1'0"

5 SIDE VIEW
SCALE: 6"=1'0"

6 SIGN—S02 FIRST FLOOR LAYOUT
SCALE: 1 1/2"=1'0"

7 SIGN—S02 G1 FLOOR LAYOUT
SCALE: 1 1/2"=1'0"

8 SIGN—S02 (INTERIOR STAIR 2)
SCALE: 1 1/2"=1'0"



9 CONTEXT ELEVATION
SCALE: 3/8"=1'0"

ORIGINAL DRAWING IS 11 X 17. DO NOT SCALE CONTENTS OF THIS DRAWING.

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Sign Type
S01
Stair Exterior

ORIGINAL DRAWING IS 11 X 17. DO NOT SCALE CONTENTS OF THIS DRAWING.

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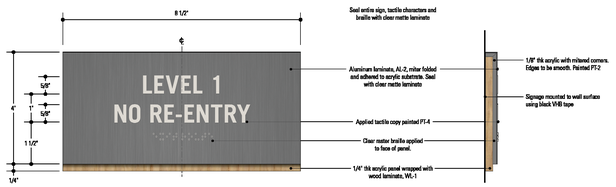
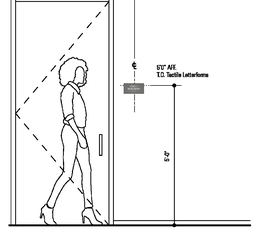
Sign Type
S02
Stair Interior

10 SIGN—LEVEL 2 ID
SCALE: 6"=1'0"

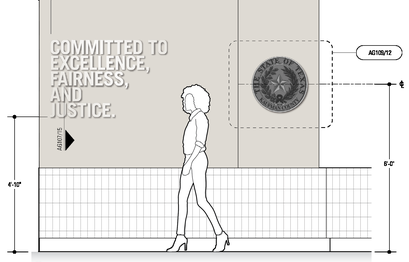


11 SIGN—LEVEL ID
SCALE: 6"=1'0"

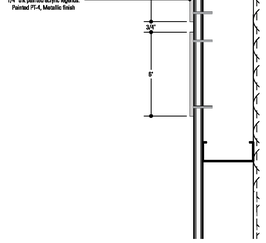
12 SIDE VIEW
SCALE: 6"=1'0"



13 CONTEXT ELEVATION
SCALE: 1/2"=1'0"



14 DL03: DIMENSIONAL LETTERSETS ON GYP AT LEVEL 1 VESTIBULE
Scale: 1/2"=1'-0"



15 DL03: SECTION DETAIL
Scale: 3"=1'-0"

LOCATION PLAN

ORIGINAL DRAWING IS 11 X 17. DO NOT SCALE CONTENTS OF THIS DRAWING.

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Sign Type
S03
Stair Level ID

ORIGINAL DRAWING IS 11 X 17. DO NOT SCALE CONTENTS OF THIS DRAWING.

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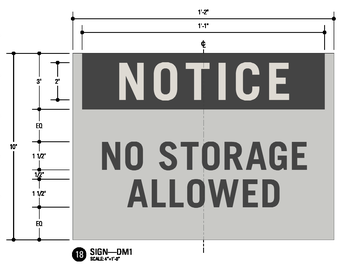
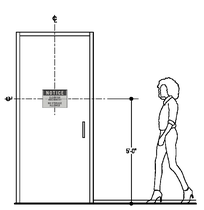
Sign Type
DL3
Dimensional Lettersets Dyp – Level 1 and 2

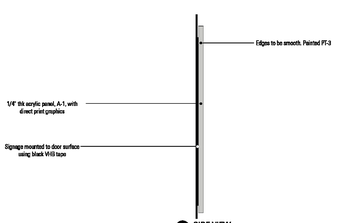


18 SIGN—DM1
SCALE: 6"=1'-0"



20 CONTEXT ELEVATION
SCALE: 3/8"=1'-0"

19 SIGN—DM1 ALTERNATIVE LAYOUT
SCALE: 6"=1'-0"



21 SIDE VIEW
SCALE: 6"=1'-0"

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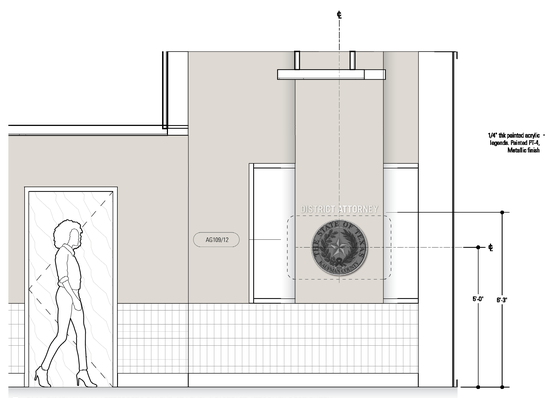
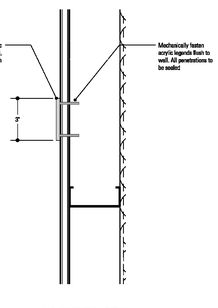
Sign Type
DM1
No Storage Sign



16 DL03: DIMENSIONAL LETTERSETS ON GYP AT LEVEL 2 DISTRICT ATTORNEY DEPT ENTRY
Scale: 1/2"=1'-0"



17 DL03: SECTION DETAIL
Scale: 3"=1'-0"

LOCATION PLAN

ORIGINAL DRAWING IS 11 X 17. DO NOT SCALE CONTENTS OF THIS DRAWING.

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Sign Type
DL3
Dimensional Lettersets Dyp – Level 1 and 2

THE STATE OF TEXAS
KAUFMAN COUNTY

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
1902 E Hwy 175
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

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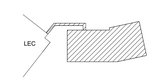
2928 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 1	01-15-2021

Project No: 20.09003.00

Sheet Title
ARCHITECTURAL GRAPHICS - OVERVIEW - INTERIOR

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
AG107

2021-01-13 8:27:10 AM

ARCHITECTURAL GRAPHICS GENERAL NOTES:

1. REFER TO KAUFMAN COUNTY JUSTICE CENTER DESIGN DEVELPMENT PACKAGE FOR BRAND ASSETS, TYPOGRAPHY, COLORS, AND DESIGN INTENT.

SIGN TAG KEY:

L1 - 1234	SHEET AND SIGN LOCATION MARK
R1	SIGN TYPE

SIGN TYPES:

SIGN GROUP	SIGN DESCRIPTION
DL02	DIMENSIONAL LETTERSETS ON WOOD
DL03	DIMENSIONAL LETTERSETS ON GYP
DM1	NO STORAGE SIGN
DR01	DIRECTORY SIGN
DR02	DIRECTIONAL WAYFINDING
EE1	EXIT
EL01	ELEVATOR EMERGENCY EGRESS PLAQUE
EL02	ELEVATOR DOOR JAMB
F1	MEDIUM FLAG MOUNTED ID
F2	LARGE MOUNTED ID
FP01.1	TEXAS FLAG
FP01.2	U.S. FLAG

SIGN GROUP	SIGN DESCRIPTION
OC	MAXIMUM OCCUPANCY
R1	ROOM ID
R1A	ROOM ID NAME INSERT
RR	RESTROOM
S01	STAIR EXTERIOR
S02	STAIR INTERIOR
S03	STAIR LEVEL ID
SC01	SECURE ROOM ID
SC02	SECURE CELL ID
SC05	SECURE ELEVATOR EGRESS
SL01	NICKEL-SILVER SEAL AT LOBBY
SL02	COUNTY SEAL AT COURTROOMS

SIGN GROUP	SIGN DESCRIPTION
SL03	COUNTY SEAL AT VESTIBULE
V01	EXTERIOR VINYL SIGNAGE
V02	EMERGENCY VINYL LETTERSET
XD01	SECONDARY EXTERIOR DIRECTIONAL
XD02	SECONDARY EXTERIOR DIRECTIONAL
XDOT01	TXDOT DIRECTIONAL
XM01	PRIMARY ENTRANCE MONUMENT
XW01	PRIMARY EXTERIOR DIRECTIONAL
XW02	PRIMARY EXTERIOR DIRECTIONAL
XW03	PRIMARY EXTERIOR DIRECTIONAL
XW04	PRIMARY EXTERIOR DIRECTIONAL
XW05	PRIMARY EXTERIOR DIRECTIONAL

1 AG - FLOOR PLAN - GROUND LEVEL
1/8" = 1'-0"

2021-01-13 8:27:16 AM

KAUFMAN COUNTY
JUSTICE CENTER

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KAUFMAN COUNTY
1902 E Hwy 175
Kaufman, TX 75142

Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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JQ
Civil & Structural Engineering
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Suite 201
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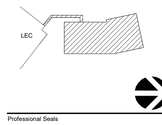
Las Colinas, Texas 75038

Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 1	01-15-2021

Project No. 20.09003.00

Sheet Title
ARCHITECTURAL GRAPHICS - PLAN LG

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
AG301

ARCHITECTURAL GRAPHICS GENERAL NOTES:

1. REFER TO KAUFMAN COUNTY JUSTICE CENTER DESIGN DEVELPMENT PACKAGE FOR BRAND ASSETS, TYPOGRAPHY, COLORS, AND DESIGN INTENT.

SIGN TAG KEY:

L1 - 1234	SHEET AND SIGN LOCATION MARK
R1	SIGN TYPE

SIGN TYPES:

SIGN GROUP	SIGN DESCRIPTION
DL02	DIMENSIONAL LETTERSETS ON WOOD
DL03	DIMENSIONAL LETTERSETS ON GYP
DM1	NO STORAGE SIGN
DR01	DIRECTORY SIGN
DR02	DIRECTIONAL WAYFINDING
EE1	EXIT
EL01	ELEVATOR EMERGENCY EGRESS PLAQUE
EL02	ELEVATOR DOOR JAMB
F1	MEDIUM FLAG MOUNTED ID
F2	LARGE MOUNTED ID
FP01.1	TEXAS FLAG
FP01.2	U.S. FLAG

SIGN GROUP	SIGN DESCRIPTION
OC	MAXIMUM OCCUPANCY
R1	ROOM ID
R1A	ROOM ID NAME INSERT
RR	RESTROOM
S01	STAIR EXTERIOR
S02	STAIR INTERIOR
S03	STAIR LEVEL ID
SC01	SECURE ROOM ID
SC02	SECURE CELL ID
SC05	SECURE ELEVATOR EGRESS
SL01	NICKEL-SILVER SEAL AT LOBBY
SL02	COUNTY SEAL AT COURTROOMS

SIGN GROUP	SIGN DESCRIPTION
SL03	COUNTY SEAL AT VESTIBULE
V01	EXTERIOR VINYL SIGNAGE
V02	EMERGENCY VINYL LETTERSET
XD01	SECONDARY EXTERIOR DIRECTIONAL
XD02	SECONDARY EXTERIOR DIRECTIONAL
XDOT01	TXDOT DIRECTIONAL
XW01	PRIMARY ENTRANCE MONUMENT
XW01	PRIMARY EXTERIOR DIRECTIONAL
XW02	PRIMARY EXTERIOR DIRECTIONAL
XW03	PRIMARY EXTERIOR DIRECTIONAL
XW04	PRIMARY EXTERIOR DIRECTIONAL
XW05	PRIMARY EXTERIOR DIRECTIONAL

1 AG - FLOOR PLAN - LEVEL 1
1/8" = 1'-0"

2021-01-13 8:27:24 AM

KAUFMAN COUNTY
JUSTICE CENTER

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KAUFMAN COUNTY
1902 E Hwy 175
Kaufman, TX 75142

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717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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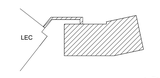
Las Colinas, Texas 75038

Key Plan



Professional Seals

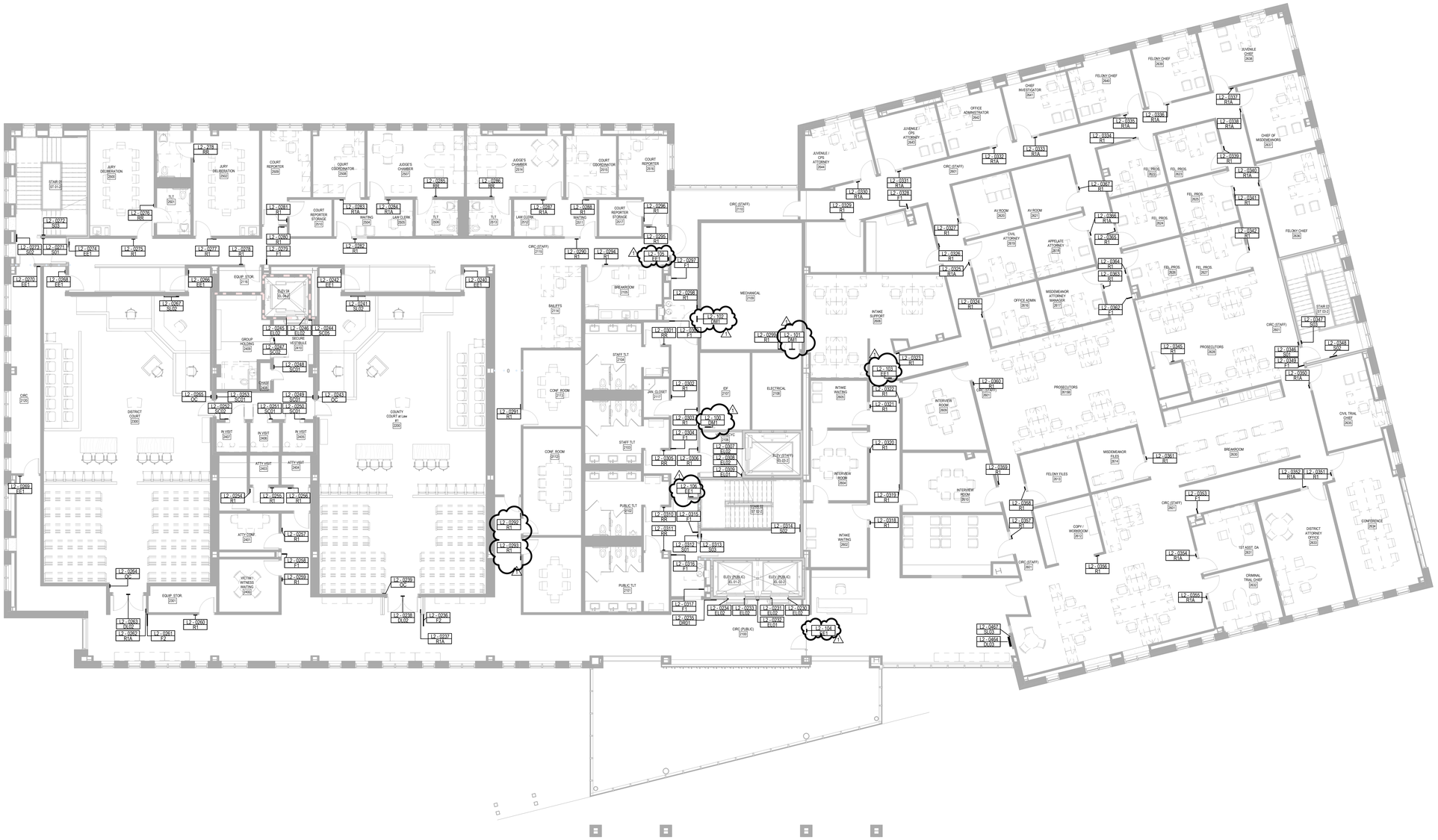
No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 1	01-15-2021

Project No: 20.09003.00

Sheet Title
ARCHITECTURAL GRAPHICS - PLAN L1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
AG302



ARCHITECTURAL GRAPHICS GENERAL NOTES:

1. REFER TO KAUFMAN COUNTY JUSTICE CENTER DESIGN DEVELPMENT PACKAGE FOR BRAND ASSETS, TYPOGRAPHY, COLORS, AND DESIGN INTENT.

SIGN TAG KEY:

L1 - 1234 ← SHEET AND SIGN LOCATION MARK
R1 ← SIGN TYPE

SIGN TYPES:

SIGN GROUP	SIGN DESCRIPTION	SIGN GROUP	SIGN DESCRIPTION	SIGN GROUP	SIGN DESCRIPTION
DL02	DIMENSIONAL LETTERSETS ON WOOD	OC	MAXIMUM OCCUPANCY	SL03	COUNTY SEAL AT VESTIBULE
DL03	DIMENSIONAL LETTERSETS ON GYP	R1	ROOM ID	V01	EXTERIOR VINYL SIGNAGE
DM1	NO STORAGE SIGN	R1A	ROOM ID NAME INSERT	V02	EMERGENCY VINYL LETTERSET
DR01	DIRECTORY SIGN	RR	RESTROOM	XD01	SECONDARY EXTERIOR DIRECTIONAL
DR02	DIRECTIONAL WAYFINDING	S01	STAIR EXTERIOR	XD02	SECONDARY EXTERIOR DIRECTIONAL
EE1	EXIT	S02	STAIR INTERIOR	XDOT01	TXDOT DIRECTIONAL
EL01	ELEVATOR EMERGENCY EGRESS PLAQUE	S03	STAIR LEVEL ID	XM01	PRIMARY ENTRANCE MONUMENT
EL02	ELEVATOR DOOR JAMB	SC01	SECURE ROOM ID	XW01	PRIMARY EXTERIOR DIRECTIONAL
F1	MEDIUM FLAG MOUNTED ID	SC02	SECURE CELL ID	XW02	PRIMARY EXTERIOR DIRECTIONAL
F2	LARGE MOUNTED ID	SC05	SECURE ELEVATOR EGRESS	XW03	PRIMARY EXTERIOR DIRECTIONAL
FP01.1	TEXAS FLAG	SL01	NICKEL-SILVER SEAL AT LOBBY	XW04	PRIMARY EXTERIOR DIRECTIONAL
FP01.2	U.S. FLAG	SL02	COUNTY SEAL AT COURTROOMS	XW05	PRIMARY EXTERIOR DIRECTIONAL

1 AG - FLOOR PLAN - LEVEL 2
1/8" = 1'-0"

2021-01-13 8:27:31 AM

KAUFMAN COUNTY
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Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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Las Colinas, Texas 75038

Key Plan

Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 1	01-15-2021

Project No: 20.09003.00

Sheet Title

ARCHITECTURAL
GRAPHICS - PLAN L2

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

AG303

ARCHITECTURAL GRAPHICS GENERAL NOTES:

1. REFER TO KAUFMAN COUNTY JUSTICE CENTER DESIGN DEVELPMENT PACKAGE FOR BRAND ASSETS, TYPOGRAPHY, COLORS, AND DESIGN INTENT.

SIGN TAG KEY:

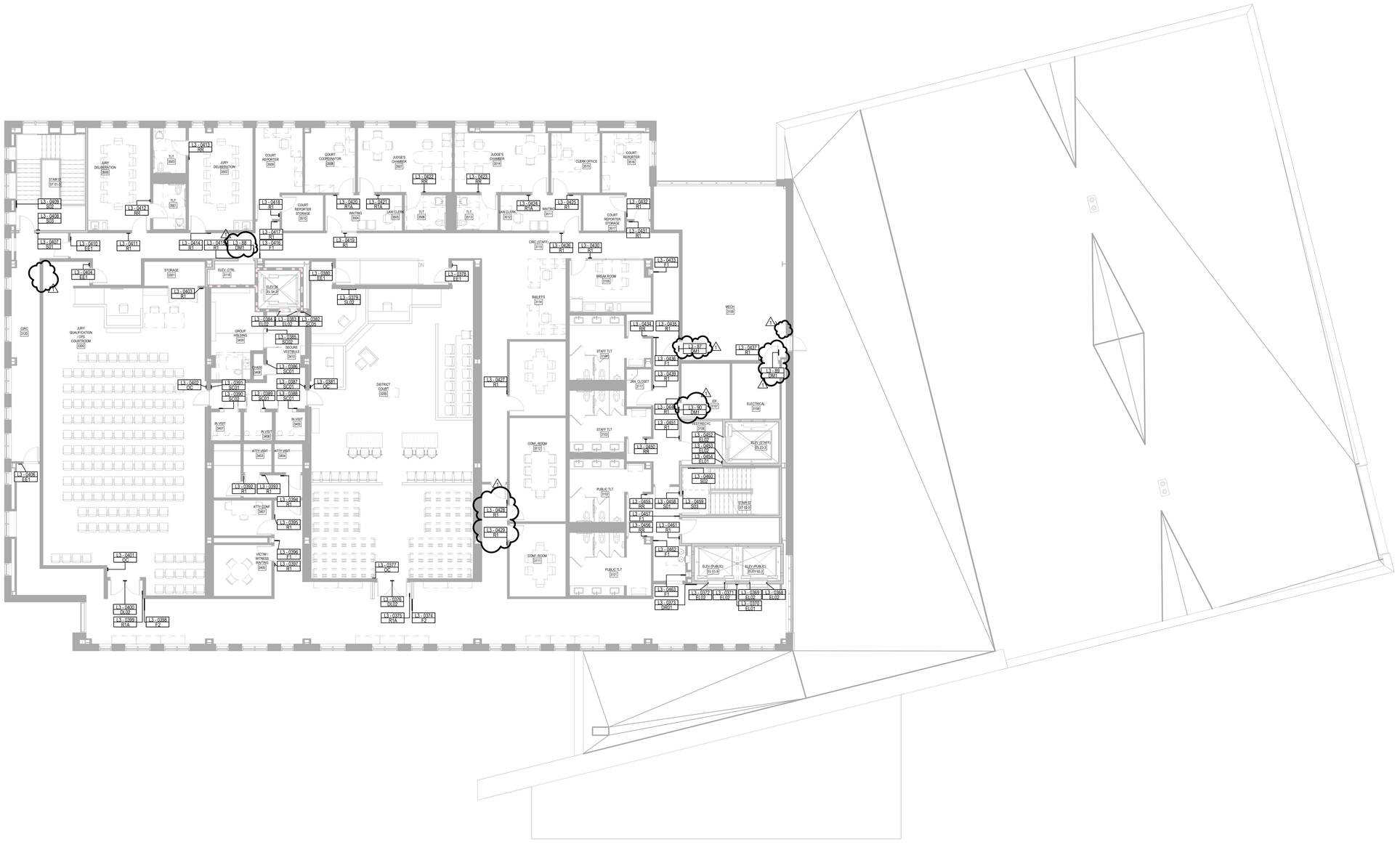
L1 - 1234	SHEET AND SIGN LOCATION MARK
R1	SIGN TYPE

SIGN TYPES:

SIGN GROUP	SIGN DESCRIPTION
DL02	DIMENSIONAL LETTERSETS ON WOOD
DL03	DIMENSIONAL LETTERSETS ON GYP
DM1	NO STORAGE SIGN
DR01	DIRECTORY SIGN
DR02	DIRECTIONAL WAYFINDING
EE1	EXIT
EL01	ELEVATOR EMERGENCY EGRESS PLAQUE
EL02	ELEVATOR DOOR JAMB
F1	MEDIUM FLAG MOUNTED ID
F2	LARGE MOUNTED ID
FP01.1	TEXAS FLAG
FP01.2	U.S. FLAG

SIGN GROUP	SIGN DESCRIPTION
OC	MAXIMUM OCCUPANCY
R1	ROOM ID
R1A	ROOM ID NAME INSERT
RR	RESTROOM
S01	STAIR EXTERIOR
S02	STAIR INTERIOR
S03	STAIR LEVEL ID
SC01	SECURE ROOM ID
SC02	SECURE CELL ID
SC05	SECURE ELEVATOR EGRESS
SL01	NICKEL-SILVER SEAL AT LOBBY
SL02	COUNTY SEAL AT COURTROOMS

SIGN GROUP	SIGN DESCRIPTION
SL03	COUNTY SEAL AT VESTIBULE
V01	EXTERIOR VINYL SIGNAGE
V02	EMERGENCY VINYL LETTERSET
XD01	SECONDARY EXTERIOR DIRECTIONAL
XD02	SECONDARY EXTERIOR DIRECTIONAL
XDOT01	TXDOT DIRECTIONAL
XM01	PRIMARY ENTRANCE MONUMENT
XW01	PRIMARY EXTERIOR DIRECTIONAL
XW02	PRIMARY EXTERIOR DIRECTIONAL
XW03	PRIMARY EXTERIOR DIRECTIONAL
XW04	PRIMARY EXTERIOR DIRECTIONAL
XW05	PRIMARY EXTERIOR DIRECTIONAL



1 AG - FLOOR PLAN - LEVEL 3
1/8" = 1'-0"

2021-01-13 8:27:36 AM

KAUFMAN COUNTY
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Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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Suite 201
Dallas, Texas 75207

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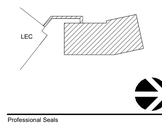
Las Colinas, Texas 75038

Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENEUM 1	01-15-2021

Project No: 20.09003.00

Sheet Title
ARCHITECTURAL GRAPHICS - PLAN L3

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
AG304

ARCHITECTURAL GRAPHICS SCHEDULE - LEVEL G

MARK	SIGN DESCRIPTION	ROOM NAME	ROOM NUMBER	MESSAGE A	MESSAGE B	COMMENTS	COUNT
DM1							
93	NO STORAGE SIGN	ELECTRICAL	0106	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
94	NO STORAGE SIGN	MECHANICAL	0108	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
95	NO STORAGE SIGN	MAIN ELECTRICAL	0110	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
96	NO STORAGE SIGN	MDF	0115	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
DM1: 4							
DR01							
0016	DIRECTORY SIGN			3 JURY QUALIFICATIONS MESSAGE TBD 2 COUNTY COURT AT LAW 2 86TH DISTRICT COURT DISTRICT ATTORNEY 1 COUNTY COURT AT LAW 1 422ND DISTRICT COURT COUNTY COURT DISTRICT CLERK COLLECTIONS COUNTY CLERK G PUBLIC DEFENDER ADULT PROBATION GRAND JURY	SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
DR01: 1							
EE1							
0001	EXIT	SECURE CORRIDOR	0401	EXIT		CLIENT TO CONFIRM MESSAGE	1
0013	EXIT	GRAND JURY	0200	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0025	EXIT			EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0040	EXIT	CIRC (STAFF)	0120	EXIT		CLIENT TO CONFIRM MESSAGE	1
0088	EXIT	STAIR 03	ST 03-0	EXIT		CLIENT TO CONFIRM MESSAGE	1
91	EXIT	CIRC (STAFF)	0120	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
92	EXIT	CIRC (STAFF)	0120	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
97	EXIT	SECURE CORRIDOR	0401	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
98	EXIT			EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
99	EXIT	SOUND LOCK	0201	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
EE1: 10							
EL01							
0029	ELEVATOR EMERGENCY EGRESS PLAQUE	ELEV (STAFF)	EL 03-0	(EVACUATION MAP) IN CASE OF FIRE DO NOT USE ELEVATOR. USE STAIRS.		CLIENT TO CONFIRM MESSAGE	1
0054	ELEVATOR EMERGENCY EGRESS PLAQUE	ELEV (PUBLIC)	EL 02-0	(EVACUATION MAP) IN CASE OF FIRE DO NOT USE ELEVATOR. USE STAIRS.		CLIENT TO CONFIRM MESSAGE	1
EL01: 2							
EL02							
0005	ELEVATOR DOOR JAMB	ELEV 04	EL 04-0	G		CLIENT TO CONFIRM MESSAGE	1
0006	ELEVATOR DOOR JAMB	ELEV 04	EL 04-0	G		CLIENT TO CONFIRM MESSAGE	1
0030	ELEVATOR DOOR JAMB	ELEV (STAFF)	EL 03-0	G		CLIENT TO CONFIRM MESSAGE	1
0031	ELEVATOR DOOR JAMB	ELEV (STAFF)	EL 03-0	G		CLIENT TO CONFIRM MESSAGE	1
0052	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 01-0	G		CLIENT TO CONFIRM MESSAGE	1
0053	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 01-0	G		CLIENT TO CONFIRM MESSAGE	1
0055	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 02-0	G		CLIENT TO CONFIRM MESSAGE	1
0056	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 02-0	G		CLIENT TO CONFIRM MESSAGE	1
EL02: 8							
F1							
0009	MEDIUM FLAG MOUNTED ID	SECURE CORRIDOR	0401	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0017	MEDIUM FLAG MOUNTED ID			(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0018	MEDIUM FLAG MOUNTED ID			(RESTROOM)	(RESTROOM)	CLIENT TO CONFIRM MESSAGE	1
0021	MEDIUM FLAG MOUNTED ID			(STAIR)	(STAIR)	CLIENT TO CONFIRM MESSAGE	1
0027	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	0120	(RESTROOM)	(RESTROOM)	CLIENT TO CONFIRM MESSAGE	1
0039	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	0120	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0064	MEDIUM FLAG MOUNTED ID	PUBLIC DEFENDER	0501	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0081	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	0120	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
F1: 8							
R1							
0010	ROOM ID	IN VISIT	0400C	0400C IN VISIT		CLIENT TO CONFIRM MESSAGE	1
0011	ROOM ID	IN VISIT	0400D	0400D IN VISIT		CLIENT TO CONFIRM MESSAGE	1
0012	ROOM ID	GRAND JURY	0200	0200 GRAND JURY		CLIENT TO CONFIRM MESSAGE	1
0014	ROOM ID	MEDIATION	0202	0202 MEDITATION ROOM		CLIENT TO CONFIRM MESSAGE	1
0015	ROOM ID	LAW LIBRARY	0203	0203 LAW LIBRARY		CLIENT TO CONFIRM MESSAGE	1
0028	ROOM ID	VEST/RECYC	0105	0105 VESTIBULE/RECYCLING		CLIENT TO CONFIRM MESSAGE	1
0032	ROOM ID	JAN. CLOSET	0105A	0105A JANITOR CLOSET		CLIENT TO CONFIRM MESSAGE	1
0033	ROOM ID	ELECTRICAL	0106	0106 ELECTRICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
0034	ROOM ID	MAIL ROOM	0107	0107 MAIL ROOM		CLIENT TO CONFIRM MESSAGE	1
0036	ROOM ID	STORAGE	0118	0118 STORAGE ROOM		CLIENT TO CONFIRM MESSAGE	1
0037	ROOM ID	ATTY VISIT	0204	0204 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0038	ROOM ID	ATTY VISIT	0205	0205 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0041	ROOM ID	BOILERS/PLBG / FIRE PROT	0109	0109 BOILERS/PLUMBING/FIRE PROTECTION		CLIENT TO CONFIRM MESSAGE	1
0042	ROOM ID	MAIN ELECTRICAL	0110	0110 MAIN ELECTRICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
0045	ROOM ID	CHASE	0406	0406 CHASE ROOM		CLIENT TO CONFIRM MESSAGE	1
0046	ROOM ID	MECHANICAL	0108	0108 MECHANICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
0048	ROOM ID	PROB OFC	0304	0304 PROBATION OFFICE		CLIENT TO CONFIRM MESSAGE	1
0049	ROOM ID	PROB OFC	0303	0303 PROBATION OFFICE		CLIENT TO CONFIRM MESSAGE	1
0050	ROOM ID	PROB OFC	0302	0303 PROBATION OFFICE		CLIENT TO CONFIRM MESSAGE	1
0051	ROOM ID	PROBATION WAITING AREA	0301	0301 PROBATION WAITING AREA		CLIENT TO CONFIRM MESSAGE	1
0057	ROOM ID	RECEPTION	0500	0500 RECEPTION		CLIENT TO CONFIRM MESSAGE	1
0059	ROOM ID	BREAKROOM	0503	0503 BREAKROOM		CLIENT TO CONFIRM MESSAGE	1
0060	ROOM ID	INVESTIGATOR	0504	0504 INVESTIGATOR		CLIENT TO CONFIRM MESSAGE	1
0061	ROOM ID	COPY / WORKROOM	0505	0505 COPY/WORKROOM		CLIENT TO CONFIRM MESSAGE	1
0062	ROOM ID	FILE STORAGE	0506	0506 FILE STORAGE		CLIENT TO CONFIRM MESSAGE	1
0063	ROOM ID	CONFERENCE	0507	0507 CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0070	ROOM ID	STORAGE	0515	0515 STORAGE ROOM		CLIENT TO CONFIRM MESSAGE	1
0073	ROOM ID	MAINTENANCE / WORK	0112	0112 MAINTENANCE/WORKROOM		CLIENT TO CONFIRM MESSAGE	1
0074	ROOM ID	GENERAL STORAGE	0114	0114 GENERAL STORAGE		CLIENT TO CONFIRM MESSAGE	1
0075	ROOM ID	RECEIVING	0111	0111 RECEIVING		CLIENT TO CONFIRM MESSAGE	1
0077	ROOM ID	MDF	0115	0115 MDF		CLIENT TO CONFIRM MESSAGE	1
0079	ROOM ID	DEMARC	0117	0117 DEMARCATION		CLIENT TO CONFIRM MESSAGE	1
0080	ROOM ID	HSKPG	0113	0113 HOUSEKEEPING		CLIENT TO CONFIRM MESSAGE	1
0082	ROOM ID	COUNTY CLERK ACTIVE STORAGE	0601	0601 COUNTY CLERK ACTIVE STORAGE		CLIENT TO CONFIRM MESSAGE	1
0083	ROOM ID	DISTRICT CLERK ACTIVE STORAGE	0701	0701 DISTRICT CLERK ACTIVE STORAGE		CLIENT TO CONFIRM MESSAGE	1
0084	ROOM ID	DISTRICT CLERK ARCHIVE RECORD STORAGE	0700	0700 DISTRICT CLERK ARCHIVE RECORDS STORAGE		CLIENT TO CONFIRM MESSAGE	1
0089	ROOM ID	COUNTY CLERK ARCHIVE RECORDS STORAGE	0600	0600 COUNTY CLERK ARCHIVE RECORDS STORAGE		CLIENT TO CONFIRM MESSAGE	1
R1: 37							

ARCHITECTURAL GRAPHICS SCHEDULE - LEVEL G

MARK	SIGN DESCRIPTION	ROOM NAME	ROOM NUMBER	MESSAGE A	MESSAGE B	COMMENTS	COUNT
R1A							
0058	ROOM ID NAME INSERT	OFFICE ADMIN	0502	0502 OFFICE ADMINISTRATOR		CLIENT TO CONFIRM MESSAGE	1
0065	ROOM ID NAME INSERT	ATTORNEY	0508	0508 ATTORNEY		CLIENT TO CONFIRM MESSAGE	1
0066	ROOM ID NAME INSERT	ATTORNEY	0509	0509 ATTORNEY		CLIENT TO CONFIRM MESSAGE	1
0067	ROOM ID NAME INSERT	CHIEF PUBLIC DEFENDER	0510	0510 CHIEF PUBLIC DEFENDER		CLIENT TO CONFIRM MESSAGE	1
0068	ROOM ID NAME INSERT	1ST ASSISTANT	0511	0511 1ST ASSISTANT		CLIENT TO CONFIRM MESSAGE	1
0069	ROOM ID NAME INSERT	CHIEF INVESTIGATOR	0512	0512 CHIEF INVESTIGATOR		CLIENT TO CONFIRM MESSAGE	1
0071	ROOM ID NAME INSERT	ATTY OFFICE MANAGER	0514	0514 ATTORNEY OFFICE MANAGER		CLIENT TO CONFIRM MESSAGE	1
0072	ROOM ID NAME INSERT	MENTAL HEALTH CASE WORKER	0513	0513 MENTAL HEALTH CASE WORKER		CLIENT TO CONFIRM MESSAGE	1
R1A: 8							
RR							
0019	RESTROOM	PUBLIC TLT	0101	(WOMEN RESTROOM) WOMEN		CLIENT TO CONFIRM MESSAGE	1
0020	RESTROOM	PUBLIC TLT	0102	(MEN RESTROOM) MEN		CLIENT TO CONFIRM MESSAGE	1
0026	RESTROOM	STAFF TLT	0103	(WOMEN RESTROOM) WOMEN		CLIENT TO CONFIRM MESSAGE	1
0035	RESTROOM	STAFF TLT	0104	(MEN RESTROOM) MEN		CLIENT TO CONFIRM MESSAGE	1
0047	RESTROOM	STAFF TLT	0305	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
RR: 5							
S01							
0022	STAIR EXTERIOR	STAIR 02	ST 02-0	(STAIR) EXIT STAIR 2		CLIENT TO CONFIRM MESSAGE	1
0085	STAIR EXTERIOR	STAIR 03	ST 03-0	(STAIR) EXIT STAIR 3		CLIENT TO CONFIRM MESSAGE	1
S01: 2							
S02							
0024	STAIR INTERIOR	STAIR 02	ST 02-0	STAIR 2 ROOF ACCESS G GROUND FLOOR LEVELS G-3 RE-ENTRY (UP ARROW) UP TO LEVEL 1 FOR EXIT DISCHARGE		CLIENT TO CONFIRM MESSAGE	1
0087	STAIR INTERIOR	STAIR 03	ST 03-0	STAIR 3 NO ROOF ACCESS 3 THIRD FLOOR LEVELS G-3 RE-ENTRY (UP ARROW) UP TO LEVEL ONE FOR EXIT DISCHARGE		CLIENT TO CONFIRM MESSAGE	1
S02: 2							
S03							
0023	STAIR LEVEL ID	STAIR 02	ST 02-0	LEVEL G NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
0086	STAIR LEVEL ID	STAIR 03	ST 03-0	LEVEL G NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
S03: 2							
SC01							
0008	SECURE ROOM ID	CHASE	0402	0402 CHASE ROOM		CLIENT TO CONFIRM MESSAGE	1
SC01: 1							
SC02							
0002	SECURE CELL ID	GROUP HOLD 8-MAN	0405	0405		CLIENT TO CONFIRM MESSAGE	1
0003	SECURE CELL ID	GROUP HOLD 8-MAN	0404	0404		CLIENT TO CONFIRM MESSAGE	1
0007	SECURE CELL ID	SINGLE HOLD	0403	0403		CLIENT TO CONFIRM MESSAGE	1
SC02: 3							
SC05							
0004	SECURE ELEVATOR EGRESS	ELEV 04	EL 04-0	IN CASE OF FIRE USE STAIRS UNLESS OTHERWISE INSTRUCTED		CLIENT TO CONFIRM MESSAGE	1
SC05: 1							
Grand total: 94							

ARCHITECTURAL GRAPHICS SCHEDULE NOTES:

1. CLIENT NEEDS TO VERIFY MESSAGING BEFORE FABRICATION.

2021-01-13 8:27:40 AM

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
1902 E Hwy 175
Kaufman, TX 75142

Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan

Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 1	01-15-2021

Project No: 20.09003.00

Sheet Title

ARCHITECTURAL GRAPHICS - SCHEDULE LG

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

AG901

ARCHITECTURAL GRAPHICS SCHEDULE - LEVEL 01

MARK	SIGN DESCRIPTION	ROOM NAME	ROOM NUMBER	MESSAGE A	MESSAGE B	COMMENTS	COUNT
DL02							
0114	DIMENSIONAL LETTERSETS ON WOOD	COUNTY COURT AT LAW #2	1200	COURTROOM 2		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
0140	DIMENSIONAL LETTERSETS ON WOOD	CEREMONIAL COURT	1300	COURTROOM 1		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
DL02: 2							
DL03							
0465	DIMENSIONAL LETTERSETS ON GYP			COMMITED TO EXCELLENCE, FAIRNESS, AND JUSTICE		CLIENT TO CONFIRM MESSAGE	1
DL03: 1							
DM1							
109	NO STORAGE SIGN	MECHANICAL	1109	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
111	NO STORAGE SIGN	IDF	1107	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
112	NO STORAGE SIGN	MECHANICAL	1109	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
DM1: 3							
DR01							
0110	DIRECTORY SIGN			3 JURY QUALIFICATIONS MESSAGE TBD 2 COUNTY COURT AT LAW 2 86TH DISTRICT COURT DISTRICT ATTORNEY 1 COUNTY COURT AT LAW 1 422ND DISTRICT COURT COUNTY COURT DISTRICT CLERK COLLECTIONS COUNTY CLERK G PUBLIC DEFENDER ADULT PROBATION GRAND JURY		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
DR01: 1							
DR02							
0111	DIRECTIONAL WAYFINDING	INDIGENT DEFENDANT	1111	(LEFT ARROW) DISTRICT CLERK COLLECTIONS COUNTY CLERK COUNTY COURT AT LAW 1 422ND DISTRICT COURT (LEFT ARROW) COUNTY COURT		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
DR02: 1							
EE1							
0103	EXIT	EXIT VEST.	1102	EXIT		CLIENT TO CONFIRM MESSAGE	1
0104	EXIT			EXIT		CLIENT TO CONFIRM MESSAGE	1
108	EXIT			EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0116	EXIT	CIRC (PUBLIC)	1120	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0118	EXIT	CIRC (PUBLIC)	1120	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0138	EXIT			EXIT		CLIENT TO CONFIRM MESSAGE	1
0143	EXIT	S.V.	463	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0145	EXIT	CEREMONIAL COURT	1300	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0147	EXIT	STAIR 01	ST 01-1	EXIT		CLIENT TO CONFIRM MESSAGE	1
0151	EXIT	CIRC (STAFF)	1130	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
EE1: 16							
EL01							
0107	ELEVATOR EMERGENCY EGRESS PLAQUE	ELEV (PUBLIC)	EL 02-1	(EVACUATION MAP) IN CASE OF FIRE DO NOT USE ELEVATOR. USE STAIRS.		CLIENT TO CONFIRM MESSAGE	1
0181	ELEVATOR EMERGENCY EGRESS PLAQUE	ELEV (STAFF)	EL 03-1	(EVACUATION MAP) IN CASE OF FIRE DO NOT USE ELEVATOR. USE STAIRS.		CLIENT TO CONFIRM MESSAGE	1
EL01: 2							
EL02							
0105	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 02-1	1		CLIENT TO CONFIRM MESSAGE	1
0106	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 02-1	1		CLIENT TO CONFIRM MESSAGE	1
0108	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 01-1	1		CLIENT TO CONFIRM MESSAGE	1
0109	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 01-1	1		CLIENT TO CONFIRM MESSAGE	1
0121	ELEVATOR DOOR JAMB	ELEV 04	EL 04-1	1		CLIENT TO CONFIRM MESSAGE	1
0122	ELEVATOR DOOR JAMB	ELEV 04	EL 04-1	1		CLIENT TO CONFIRM MESSAGE	1
0182	ELEVATOR DOOR JAMB	ELEV (STAFF)	EL 03-1	1		CLIENT TO CONFIRM MESSAGE	1
0183	ELEVATOR DOOR JAMB	ELEV (STAFF)	EL 03-1	1		CLIENT TO CONFIRM MESSAGE	1
EL02: 8							
F1							
0134	MEDIUM FLAG MOUNTED ID			(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0156	MEDIUM FLAG MOUNTED ID	CIRC (PUBLIC)	1120	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0173	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	1110	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0176	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	1110	(RESTROOM)	(RESTROOM)	CLIENT TO CONFIRM MESSAGE	1
0186	MEDIUM FLAG MOUNTED ID			(RESTROOM)	(RESTROOM)	CLIENT TO CONFIRM MESSAGE	1
0187	MEDIUM FLAG MOUNTED ID			(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0203	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	1702	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0221	MEDIUM FLAG MOUNTED ID	COUNTY CLERK	1600	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
F1: 8							
F2							
0112	LARGE MOUNTED ID			COUNTY COURT AT LAW 1		CLIENT TO CONFIRM MESSAGE	1
0136	LARGE MOUNTED ID			422ND DISTRICT COURT		CLIENT TO CONFIRM MESSAGE	1
0193	LARGE MOUNTED ID			COUNTY CLERK		CLIENT TO CONFIRM MESSAGE	1
0194	LARGE MOUNTED ID	COLLECTIONS	1800	COLLECTIONS		CLIENT TO CONFIRM MESSAGE	1
0196	LARGE MOUNTED ID			DISTRICT CLERK		CLIENT TO CONFIRM MESSAGE	1
F2: 5							
OC							
0115	MAXIMUM OCCUPANCY	COUNTY COURT AT LAW #2	1200	MAX OCCUPANCY 121 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0119	MAXIMUM OCCUPANCY	COUNTY COURT AT LAW #2	1200	MAX OCCUPANCY 121 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0141	MAXIMUM OCCUPANCY	CEREMONIAL COURT	1300	MAX OCCUPANCY 173 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0142	MAXIMUM OCCUPANCY	CEREMONIAL COURT	1300	MAX OCCUPANCY 173 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
OC: 4							
R1							
107	ROOM ID	ELECTRICAL	1108	1108 ELECTRICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
110	ROOM ID	COLLECTIONS OFFICE	1801	1801 COLLECTIONS OFFICE		CLIENT TO CONFIRM MESSAGE	1
0130	ROOM ID	ATTY VISIT	1402	1402 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0131	ROOM ID	ATTY VISIT	1403	1403 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0132	ROOM ID	ATTY VISIT	1404	1404 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0133	ROOM ID	ATTY CONF.	1401	1401 ATTORNEY CONFERENCE		CLIENT TO CONFIRM MESSAGE	1
0135	ROOM ID	VICTIM / WITNESS WAITING	1400	1400 VICTIM/WITNESS WAITING		CLIENT TO CONFIRM MESSAGE	1
0151	ROOM ID	JURY DELIBERATION	1500	1500 JURY DELIBERATION		CLIENT TO CONFIRM MESSAGE	1
0153	ROOM ID	JURY DELIBERATION	1502	1502 JURY DELIBERATION		CLIENT TO CONFIRM MESSAGE	1
0155	ROOM ID	EQUIP. STOR.	1116	1116 EQUIPMENT STORAGE		CLIENT TO CONFIRM MESSAGE	1
0157	ROOM ID	COURT REPORTER	1509	1509 COURT REPORTER		CLIENT TO CONFIRM MESSAGE	1
0158	ROOM ID	COURT REPORTER STORAGE	1510	1510 COURT REPORTER STORAGE		CLIENT TO CONFIRM MESSAGE	1
0159	ROOM ID	WAITING	1504	1504 WAITING ROOM		CLIENT TO CONFIRM MESSAGE	1
0165	ROOM ID	COURT COORDINATOR	1515	1515 COURT COORDINATOR		CLIENT TO CONFIRM MESSAGE	1
0166	ROOM ID	WAITING	1511	1511 WAITING ROOM		CLIENT TO CONFIRM MESSAGE	1
0167	ROOM ID	CLERKS	1113	1113 CLERKS ROOM		CLIENT TO CONFIRM MESSAGE	1
0168	ROOM ID	CONF. ROOM	1112	1112 CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0169	ROOM ID	INDIGENT DEFENDANT	1111	1111 INDIGENT DEFENDANT		CLIENT TO CONFIRM MESSAGE	1
0170	ROOM ID	BREAKROOM	1105	1105 BREAKROOM		CLIENT TO CONFIRM MESSAGE	1
0171	ROOM ID	COURT REPORTER	1516	1516 COURT REPORTER		CLIENT TO CONFIRM MESSAGE	1
0172	ROOM ID	COURT REPORTER STORAGE	1517	1517 COURT REPORTER STORAGE		CLIENT TO CONFIRM MESSAGE	1
0174	ROOM ID	MECHANICAL	1109	1109 MECHANICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
0177	ROOM ID	JAN.	1117	1117 JANITOR CLOSET		CLIENT TO CONFIRM MESSAGE	1
0178	ROOM ID	IDF	1107	1107 IDF		CLIENT TO CONFIRM MESSAGE	1
0180	ROOM ID	VEST/RECYC	1106	1106 VESTIBULE/RECYCLING		CLIENT TO CONFIRM MESSAGE	1
0191	ROOM ID	SECURITY STORAGE	1122	1122 SECURITY STORAGE		CLIENT TO CONFIRM MESSAGE	1
0192	ROOM ID	SECURITY	1121	1121 SECURITY ROOM		CLIENT TO CONFIRM MESSAGE	1
0195	ROOM ID	COLLECTIONS	1800	1800 COLLECTIONS		CLIENT TO CONFIRM MESSAGE	1
0197	ROOM ID	PASSPORT ROOM	1704	1704 PASSPORT ROOM		CLIENT TO CONFIRM MESSAGE	1
0198	ROOM ID	RECORD VIEWING	1703	1703 RECORD VIEWING		CLIENT TO CONFIRM MESSAGE	1
0199	ROOM ID	STORAGE	1705	1705 STORAGE ROOM		CLIENT TO CONFIRM MESSAGE	1
0200	ROOM ID	STORAGE	1706	1706 STORAGE ROOM		CLIENT TO CONFIRM MESSAGE	1
0201	ROOM ID	ADMIN	1707	1707 ADMINISTRATION		CLIENT TO CONFIRM MESSAGE	1
0202	ROOM ID	RECORD VIEWING	1703	1703 RECORD VIEWING		CLIENT TO CONFIRM MESSAGE	1
0204	ROOM ID	SUPV OFFICE	1708	1708 SUPERVISOR OFFICE		CLIENT TO CONFIRM MESSAGE	1
0206	ROOM ID	DISTRICT CLERK ACTIVE STORAGE	1701	1701 DISTRICT CLERK ACTIVE STORAGE		CLIENT TO CONFIRM MESSAGE	1

ARCHITECTURAL GRAPHICS SCHEDULE - LEVEL 01

MARK	SIGN DESCRIPTION	ROOM NAME	ROOM NUMBER	MESSAGE A	MESSAGE B	COMMENTS	COUNT
0208	ROOM ID	BREAKROOM / CONFERENCE	1711	1711 BREAKROOM/CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0209	ROOM ID	VAULT / EVIDENCE	1712	1712 VAULT/EVIDENCE		CLIENT TO CONFIRM MESSAGE	1
0215	ROOM ID	STORAGE	1613	1613 STORAGE ROOM		CLIENT TO CONFIRM MESSAGE	1
0216	ROOM ID	VAULT / EVIDENCE	1609	1609 VAULT/EVIDENCE		CLIENT TO CONFIRM MESSAGE	1
0217	ROOM ID	BREAKROOM / CONFERENCE	1608	1608 BREAKROOM/CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0222	ROOM ID	SUPV OFFICE 2	1611	1611 SUPERVISOR OFFICE 2		CLIENT TO CONFIRM MESSAGE	1
0223	ROOM ID	SUPV OFFICE	1612	1612 SUPERVISOR OFFICE		CLIENT TO CONFIRM MESSAGE	1
0224	ROOM ID	COUNTY CLERK ACTIVE STORAGE	1601	1601 COUNTY CLERK ACTIVE STORAGE		CLIENT TO CONFIRM MESSAGE	1
0226	ROOM ID	RECORD VIEWING	1604	1604 RECORD VIEWING		CLIENT TO CONFIRM MESSAGE	1
0227	ROOM ID	PROBATE OFFICE	1603	1603 PROBATE OFFICE		CLIENT TO CONFIRM MESSAGE	1
0228	ROOM ID	RECORD VIEWING	1604	1604 RECORD VIEWING		CLIENT TO CONFIRM MESSAGE	1
0229	ROOM ID	PROBATE OFFICE	1603	1603 PROBATE OFFICE		CLIENT TO CONFIRM MESSAGE	1
R1: 48							
R1A							
0113	ROOM ID NAME INSERT	COUNTY COURT AT LAW #2	1200	1200 COUNTY COURT AT LAW 2		CLIENT TO CONFIRM MESSAGE	1
0137	ROOM ID NAME INSERT	CEREMONIAL COURT	1300	1300 422ND DISTRICT COURT		CLIENT TO CONFIRM MESSAGE	1
0160	ROOM ID NAME INSERT	COURT COORDINATOR	1508	1508 COURT COORDINATOR		CLIENT TO CONFIRM MESSAGE	1
0161	ROOM ID NAME INSERT	JUDGE'S CHAMBER	1507	1507 JUDGE'S CHAMBER		CLIENT TO CONFIRM MESSAGE	1
0164	ROOM ID NAME INSERT	JUDGE'S CHAMBER	1514	1514 JUDGE'S CHAMBER		CLIENT TO CONFIRM MESSAGE	1
0205	ROOM ID NAME INSERT	CHIEF DISTRICT CLERK	1709	1709 CHIEF DISTRICT CLERK		CLIENT TO CONFIRM MESSAGE	1
0207	ROOM ID NAME INSERT	DISTRICT CLERK	1710	1710 DISTRICT CLERK		CLIENT TO CONFIRM MESSAGE	1
0218	ROOM ID NAME INSERT	COUNTY CLERK	1607	1607 COUNTY CLERK		CLIENT TO CONFIRM MESSAGE	1
0219	ROOM ID NAME INSERT	OFFICE ADMIN	1610	1610 OFFICE ADMINISTRATOR		CLIENT TO CONFIRM MESSAGE	1
0220	ROOM ID NAME INSERT	CHIEF COUNTY CLERK	1606	1606 CHIEF COUNTY CLERK		CLIENT TO CONFIRM MESSAGE	1
R1A: 10							
RR							
0152	RESTROOM	TLT	1501	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0154	RESTROOM	TLT	1503	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0162	RESTROOM	TLT	1506	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0163	RESTROOM	TLT	1513	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0175	RESTROOM	STAFF TLT	1104	(MEN RESTROOM) MEN		CLIENT TO CONFIRM MESSAGE	1
0179	RESTROOM	STAFF TLT	1103	(WOMEN RESTROOM) WOMEN		CLIENT TO CONFIRM MESSAGE	1
0184	RESTROOM	PUBLIC TLT	1119	(MEN RESTROOM) MEN		CLIENT TO CONFIRM MESSAGE	1
0185	RESTROOM	PUBLIC TLT	1118	(WOMEN RESTROOM) WOMEN		CLIENT TO CONFIRM MESSAGE	1
RR: 8							
S01							
0150	STAIR EXTERIOR	STAIR 01	ST 01-1	(STAIR) STAIR 1 EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0190	STAIR EXTERIOR	STAIR 02	ST 02-1	(STAIR) STAIR 2 EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0211	STAIR EXTERIOR	STAIR 03	ST 03-1	(STAIR) STAIR 3 EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
S01: 3							
S02							
0148	STAIR INTERIOR	STAIR 01	ST 01-1	STAIR 1 NO ROOF ACCESS 1 FIRST FLOOR LEVELS G-3 RE-ENTRY (STAR) EXIT DISCHARGE THIS LEVEL		CLIENT TO CONFIRM MESSAGE	1
0188	STAIR INTERIOR	STAIR 02	ST 02-1	STAIR 2 ROOF ACCESS 2 SECOND FLOOR LEVELS G-3 RE-ENTRY (STAR) EXIT DISCHARGE THIS LEVEL		CLIENT TO CONFIRM MESSAGE	1
0213	STAIR INTERIOR	STAIR 03	ST 03-1	STAIR 3 NO ROOF ACCESS 3 THIRD FLOOR LEVELS G-3 RE-ENTRY (STAR) EXIT DISCHARGE THIS LEVEL		CLIENT TO CONFIRM MESSAGE	1
S02: 3							
S03							
0149	STAIR LEVEL ID	STAIR 01	ST 01-1	LEVEL 1 NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
0189	STAIR LEVEL ID	STAIR 02	ST 02-1	LEVEL 1 NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
0212	STAIR LEVEL ID	STAIR 03	ST 03-1	LEVEL 1 NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
S03: 3							
SC01							
0124	SECURE ROOM ID	CHASE	1408	1408 CHASE ROOM		CLIENT TO CONFIRM MESSAGE	1
0125	SECURE ROOM ID	COUNTY COURT AT LAW #2	1200	1200 COUNTY COURT AT LAW 2		CLIENT TO CONFIRM MESSAGE	1
0126	SECURE ROOM ID	IN VISIT	1405	1405 IN VISIT		CLIENT TO CONFIRM MESSAGE	1
0127	SECURE ROOM ID	IN VISIT	1406	1406 IN VISIT		CLIENT TO CONFIRM MESSAGE	1
0129	SECURE ROOM ID	CEREMONIAL COURT	1300	1300 422nd DISTRICT COURT		CLIENT TO CONFIRM MESSAGE	1
SC01: 5							
SC02							
0123	SECURE CELL ID	GROUP HOLDING	1409	1409		CLIENT TO CONFIRM MESSAGE	1
0128	SECURE CELL ID	IN VISIT	1407	1407		CLIENT TO CONFIRM MESSAGE	1
SC02: 2							
SC05							
0120	SECURE ELEVATOR EGRESS	ELEV 04	EL 04-1	IN CASE OF FIRE USE STAIRS UNLESS OTHERWISE INSTRUCTED		CLIENT TO CONFIRM MESSAGE	1
SC05: 1							
SL01							
0102	NICKEL-SILVER SEAL AT LOBBY			(SEAL)		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
SL01: 1							
SL02							
0117	COUNTY SEAL AT COURTROOMS	COUNTY COURT AT LAW #2	1200	(SEAL)		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
0144	COUNTY SEAL AT COURTROOMS	CEREMONIAL COURT	1300	(SEAL)		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
SL02: 2							
SL03							
0466	COUNTY SEAL AT VESTIBULE	RECORD VIEWING	1604	1603 PROBATE OFFICE		CLIENT TO CONFIRM MESSAGE	1
SL03: 1							
V01							
0100	EXTERIOR VINYL SIGNAGE	ENTRY VESTIBULE	1101			SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
0101	EXTERIOR VINYL SIGNAGE	ENTRY VESTIBULE	1101			SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
V01: 2							
V02							
0139	EMERGENCY VINYL LETTERSET			FIRE EXIT – DO NOT BLOCK		CLIENT TO CONFIRM MESSAGE	1
0146	EMERGENCY VINYL LETTERSET	STAIR 01	ST 01-1	FIRE EXIT – DO NOT BLOCK		CLIENT TO CONFIRM MESSAGE	1
V02: 2							

Grand total: 136

ARCHITECTURAL GRAPHICS SCHEDULE NOTES:

1. CLIENT NEEDS TO VERIFY MESSAGING BEFORE FABRICATION.

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
1902 E Hwy 175
Kaufman, TX 75142

Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan

Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 1	01-15-2021

Project No: 20.09003.00

Sheet Title

ARCHITECTURAL GRAPHICS - SCHEDULE L1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

AG902

2021-01-13 8:27:43 AM

ARCHITECTURAL GRAPHICS SCHEDULE -LEVEL 02

MARK	SIGN DESCRIPTION	ROOM NAME	ROOM NUMBER	MESSAGE A	MESSAGE B	COMMENTS	COUNT
DL02							
0238	DIMENSIONAL LETTERSETS ON WOOD	COUNTY COURT at Law #1	2200	COURTROOM 4		CLIENT TO CONFIRM MESSAGE	1
0263	DIMENSIONAL LETTERSETS ON WOOD	DISTRICT COURT	2300	COURTROOM 3		CLIENT TO CONFIRM MESSAGE	1
DL02: 2							
DL03							
0464	DIMENSIONAL LETTERSETS ON GYP			(SEAL)		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
DL03: 1							
DM1							
100	NO STORAGE SIGN	IDF	2107	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
101	NO STORAGE SIGN	MECHANICAL	2109	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
102	NO STORAGE SIGN	MECHANICAL	2109	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
DM1: 3							
DR01							
0235	DIRECTORY SIGN			3 JURY QUALIFICATIONS MESSAGE TBD 2 COUNTY COURT AT LAW 2 86TH DISTRICT COURT DISTRICT ATTORNEY 1 COUNTY COURT AT LAW 1 422ND DISTRICT COURT COUNTY COURT DISTRICT CLERK COLLECTIONS COUNTY CLERK G PUBLIC DEFENDER ADULT PROBATION GRAND JURY	CLIENT TO CONFIRM MESSAGE	1
DR01: 1							
EE1							
103	EXIT	CIRC (STAFF)	2600	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
104	EXIT	CIRC (PUBLIC)	2100	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
105	EXIT	CIRC (STAFF)	2110	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
106	EXIT			EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0240	EXIT	CIRC (STAFF)	2115	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0242	EXIT	CIRC (STAFF)	2115	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0266	EXIT	CIRC (STAFF)	2115	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0268	EXIT	DISTRICT COURT	2300	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0269	EXIT	CIRC	2120	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0270	EXIT	CIRC	2120	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0271	EXIT	STAIR 01	ST 01-2	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
EE1: 11							
EL01							
0232	ELEVATOR EMERGENCY EGRESS PLAQUE	ELEV (PUBLIC)	EL 02-2	(EVACUATION MAP) IN CASE OF FIRE DO NOT USE ELEVATOR. USE STAIRS.		CLIENT TO CONFIRM MESSAGE	1
0309	ELEVATOR EMERGENCY EGRESS PLAQUE	ELEV (STAFF)	EL 03-2	(EVACUATION MAP) IN CASE OF FIRE DO NOT USE ELEVATOR. USE STAIRS.		CLIENT TO CONFIRM MESSAGE	1
EL01: 2							
EL02							
0230	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 02-2	2		CLIENT TO CONFIRM MESSAGE	1
0231	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 02-2	2		CLIENT TO CONFIRM MESSAGE	1
0233	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 01-2	2		CLIENT TO CONFIRM MESSAGE	1
0234	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 01-2	2		CLIENT TO CONFIRM MESSAGE	1
0245	ELEVATOR DOOR JAMB	SECURE VESTIBULE	2410	2		CLIENT TO CONFIRM MESSAGE	1
0246	ELEVATOR DOOR JAMB	SECURE VESTIBULE	2410	2		CLIENT TO CONFIRM MESSAGE	1
0307	ELEVATOR DOOR JAMB	ELEV (STAFF)	EL 03-2	2		CLIENT TO CONFIRM MESSAGE	1
0308	ELEVATOR DOOR JAMB	ELEV (STAFF)	EL 03-2	2		CLIENT TO CONFIRM MESSAGE	1
EL02: 8							
F1							
0258	MEDIUM FLAG MOUNTED ID	CIRC (PUBLIC)	2100	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0279	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	2115	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0297	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	2110	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0300	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	2110	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0304	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	2110	(RESTROOM)	(RESTROOM)	CLIENT TO CONFIRM MESSAGE	1
0315	MEDIUM FLAG MOUNTED ID			(STAIR)	(STAIR)	CLIENT TO CONFIRM MESSAGE	1
0316	MEDIUM FLAG MOUNTED ID			(RESTROOM)	(RESTROOM)	CLIENT TO CONFIRM MESSAGE	1
0317	MEDIUM FLAG MOUNTED ID			(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0328	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	2601	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0349	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	2601	(STAIR)	(STAIR)	CLIENT TO CONFIRM MESSAGE	1
0353	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	2601	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0362	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	2601	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
F1: 12							
F2							
0236	LARGE MOUNTED ID	COUNTY COURT at Law #1	2200	COUNTY COURT AT LAW 1		CLIENT TO CONFIRM MESSAGE	1
0261	LARGE MOUNTED ID	DISTRICT COURT	2300	86TH DISTRICT COURT		CLIENT TO CONFIRM MESSAGE	1
F2: 2							
OC							
0239	MAXIMUM OCCUPANCY	COUNTY COURT at Law #1	2200	MAX OCCUPANCY 121 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0243	MAXIMUM OCCUPANCY	COUNTY COURT at Law #1	2200	MAX OCCUPANCY 121 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0264	MAXIMUM OCCUPANCY	DISTRICT COURT	2300	MAX OCCUPANCY 124 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0265	MAXIMUM OCCUPANCY	DISTRICT COURT	2300	MAX OCCUPANCY 124 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
OC: 4							
R1							
0254	ROOM ID	ATTY VISIT	2402	2402 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0255	ROOM ID	ATTY VISIT	2403	2403 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0256	ROOM ID	ATTY VISIT	2404	2404 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0257	ROOM ID	ATTY CONF.	2401	2401 ATTORNEY CONFERENCE		CLIENT TO CONFIRM MESSAGE	1
0259	ROOM ID	VICTIM / WITNESS WAITING	2400	2400 VICTIM/WITNESS WAITING		CLIENT TO CONFIRM MESSAGE	1
0260	ROOM ID	EQUIP. STOR.	2301	2301 EQUIPMENT STORAGE		CLIENT TO CONFIRM MESSAGE	1
0275	ROOM ID	JURY DELIBERATION	2500	2500 JURY DELIBERATION		CLIENT TO CONFIRM MESSAGE	1
0277	ROOM ID	JURY DELIBERATION	2502	2502 JURY DELIBERATION		CLIENT TO CONFIRM MESSAGE	1
0278	ROOM ID	EQUIP. STOR.	2116	2116 EQUIPMENT STORAGE		CLIENT TO CONFIRM MESSAGE	1
0280	ROOM ID	COURT REPORTER	2509	2509 COURT REPORTER		CLIENT TO CONFIRM MESSAGE	1
0281	ROOM ID	COURT REPORTER STORAGE	2510	2510 COURT REPORTER STORAGE		CLIENT TO CONFIRM MESSAGE	1
0282	ROOM ID	WAITING	2504	2504 WAITING ROOM		CLIENT TO CONFIRM MESSAGE	1
0288	ROOM ID	COURT COORDINATOR	2515	2515 COURT COORDINATOR		CLIENT TO CONFIRM MESSAGE	1
0290	ROOM ID	WAITING	2511	2511 WAITING ROOM		CLIENT TO CONFIRM MESSAGE	1
0291	ROOM ID	CONF. ROOM	2113	2113 CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0292	ROOM ID	CONF. ROOM	2112	2112 CONFERENE ROOM		CLIENT TO CONFIRM MESSAGE	1
0293	ROOM ID	CONF. ROOM	2111	2111 CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0294	ROOM ID	BREAKROOM	2105	2105 BREAKROOM		CLIENT TO CONFIRM MESSAGE	1
0295	ROOM ID	COURT REPORTER	2516	2516 COURT REPORTER		CLIENT TO CONFIRM MESSAGE	1
0296	ROOM ID	COURT REPORTER STORAGE	2517	2517 COURT REPORTER STORAGE		CLIENT TO CONFIRM MESSAGE	1
0298	ROOM ID	MECHANICAL	2109	2109 MECHANICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
0299	ROOM ID	ELECTRICAL	2108	2108 ELECTRICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
0302	ROOM ID	JAN. CLOSET	2117	2117 JANITOR CLOSET JANITOR CLOSET		CLIENT TO CONFIRM MESSAGE	1
0303	ROOM ID	IDF	2107	2107 IDF		CLIENT TO CONFIRM MESSAGE	1
0306	ROOM ID	VEST/RECYC	2106	2106 VESTIBULE/RECYCLING		CLIENT TO CONFIRM MESSAGE	1
0318	ROOM ID	INTAKE WAITING	2602	2602 INTAKE WAITING		CLIENT TO CONFIRM MESSAGE	1
0319	ROOM ID	INTERVIEW ROOM	2610	2610 INTERVIEW ROOM		CLIENT TO CONFIRM MESSAGE	1
0320	ROOM ID	INTERVIEW ROOM	2604	2604 INTERVIEW ROOM		CLIENT TO CONFIRM MESSAGE	1
0321	ROOM ID	INTAKE WAITING	2605	2605 INTAKE WAITING		CLIENT TO CONFIRM MESSAGE	1
0322	ROOM ID	INTERVIEW ROOM	2609	2609 INTERVIEW ROOM		CLIENT TO CONFIRM MESSAGE	1
0323	ROOM ID	INTAKE SUPPORT	2606	2606 INTAKE SUPPORT		CLIENT TO CONFIRM MESSAGE	1
0324	ROOM ID	OFFICE ADMIN	2616	2616 OFFICE ADMINISTRATOR		CLIENT TO CONFIRM MESSAGE	1
0326	ROOM ID	COPY / WORKROOM	2608	2608 COPY/WORKROOM		CLIENT TO CONFIRM MESSAGE	1
0327	ROOM ID	AV ROOM	2620	2620 AV ROOM		CLIENT TO CONFIRM MESSAGE	1
0329	ROOM ID	T-LETS	2607	2607 T-LETS		CLIENT TO CONFIRM MESSAGE	1
0334	ROOM ID	FEL. PROS.	2622	2622 FELONY PROBATIONS		CLIENT TO CONFIRM MESSAGE	1
0339	ROOM ID	FEL. PROS.	2623	2623 FELONY PROBATIONS		CLIENT TO CONFIRM MESSAGE	1
0341	ROOM ID	FEL. PROS.	2625	2625 FELONY PROBATIONS		CLIENT TO CONFIRM MESSAGE	1

ARCHITECTURAL GRAPHICS SCHEDULE -LEVEL 02

MARK	SIGN DESCRIPTION	ROOM NAME	ROOM NUMBER	MESSAGE A	MESSAGE B	COMMENTS	COUNT
0342	ROOM ID	FEL. PROS.	2627	2627 FELONY PROBATIONS		CLIENT TO CONFIRM MESSAGE	1
0345	ROOM ID	EVIDENCE CHECK IN	2629	2629 EVIDENCE CHECK-IN		CLIENT TO CONFIRM MESSAGE	1
0351	ROOM ID	CONFERENCE	2634	2634 CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0356	ROOM ID	COPY / WORKROOM	2612	2612 COPY/WORKROOM		CLIENT TO CONFIRM MESSAGE	1
0357	ROOM ID	WITNESS WAITING	2611	2611 WITNESS WAITING		CLIENT TO CONFIRM MESSAGE	1
0358	ROOM ID	FELONY FILES	2613	2613 FELONY FILES		CLIENT TO CONFIRM MESSAGE	1
0359	ROOM ID	INTERVIEW ROOM	2610	2610 INTERVIEW ROOM		CLIENT TO CONFIRM MESSAGE	1
0360	ROOM ID	INTERVIEW ROOM	2609	2609 INTERVIEW ROOM		CLIENT TO CONFIRM MESSAGE	1
0361	ROOM ID	MISDEMEANOR FILES	2614	2614 MISDEMEANOR FILES		CLIENT TO CONFIRM MESSAGE	1
0363	ROOM ID	MISDEMEANOR ATTORNEY MANAGER	2617	2617 MISDEMEANOR ATTORNEY MANAGER		CLIENT TO CONFIRM MESSAGE	1
0364	ROOM ID	FEL. PROS.	2626	2626 FELONY PROBATIONS		CLIENT TO CONFIRM MESSAGE	1
0365	ROOM ID	FEL. PROS.	2624	2624 FELONY PROBATIONS		CLIENT TO CONFIRM MESSAGE	1
0367	ROOM ID	AV ROOM	2621	2621 AV ROOM		CLIENT TO CONFIRM MESSAGE	1
R1: 51							
R1A							
0237	ROOM ID NAME INSERT	COUNTY COURT at Law #1	2200	2200 COUNTY COURT AT LAW 2		CLIENT TO CONFIRM MESSAGE	1
0262	ROOM ID NAME INSERT	DISTRICT COURT	2300	2300 86TH DISTRICT COURT		CLIENT TO CONFIRM MESSAGE	1
0283	ROOM ID NAME INSERT	COURT COORDINATOR	2508	2508 COURT COORDINATOR		CLIENT TO CONFIRM MESSAGE	1
0284	ROOM ID NAME INSERT	JUDGE'S CHAMBER	2507	2507 JUDGE'S CHAMBER		CLIENT TO CONFIRM MESSAGE	1
0287	ROOM ID NAME INSERT	JUDGE'S CHAMBER	2514	2514 JUDGE'S CHAMBER		CLIENT TO CONFIRM MESSAGE	1
0325	ROOM ID NAME INSERT	CIVIL ATTORNEY	2619	2619 CIVIL ATTORNEY		CLIENT TO CONFIRM MESSAGE	1
0330	ROOM ID NAME INSERT	JUVENILE / CPS ATTORNEY	2644	2644 JUVENILE/CPS ATTORNEY		CLIENT TO CONFIRM MESSAGE	1
0331	ROOM ID NAME INSERT	JUVENILE / CPS ATTORNEY	2643	2643 JUVENILE/CPS ATTORNEY		CLIENT TO CONFIRM MESSAGE	1
0332	ROOM ID NAME INSERT	OFFICE ADMINISTRATOR	2642	2642 OFFICE ADMINISTRATOR		CLIENT TO CONFIRM MESSAGE	1
0333	ROOM ID NAME INSERT	CHIEF INVESTIGATOR	2641	2641 CHIEF INVESTIGATOR		CLIENT TO CONFIRM MESSAGE	1
0335	ROOM ID NAME INSERT	FELONY CHIEF	2640	2640 FELONY CHIEF		CLIENT TO CONFIRM MESSAGE	1
0336	ROOM ID NAME INSERT	FELONY CHIEF	2639	2639 FELONY CHIEF		CLIENT TO CONFIRM MESSAGE	1
0337	ROOM ID NAME INSERT	JUVENILE CHIEF	2638	2638 JUVENILE CHIEF		CLIENT TO CONFIRM MESSAGE	1
0338	ROOM ID NAME INSERT	CHIEF OF MISDEMEANORS	2637	2637 CHIEF OF MISDEMEANORS		CLIENT TO CONFIRM MESSAGE	1
0340	ROOM ID NAME INSERT	FELONY CHIEF	2636	2636 FELONY CHIEF		CLIENT TO CONFIRM MESSAGE	1
0350	ROOM ID NAME INSERT	CIVIL TRIAL CHIEF	2635	2635 CIVIL TRIAL CHIEF		CLIENT TO CONFIRM MESSAGE	1
0352	ROOM ID NAME INSERT	DISTRICT ATTORNEY OFFICE	2633	2633 DISTRICT ATTORNEY OFFICE		CLIENT TO CONFIRM MESSAGE	1
0354	ROOM ID NAME INSERT	1ST ASST. DA	2631	2631 1ST ASSISTANT DA		CLIENT TO CONFIRM MESSAGE	1
0355	ROOM ID NAME INSERT	CRIMINAL TRIAL CHIEF	2632	2632 CRIMINAL TRIAL CHIEF		CLIENT TO CONFIRM MESSAGE	1
0366	ROOM ID NAME INSERT	APPELATE ATTORNEY	2618	2618 APPELATE ATTORNEY		CLIENT TO CONFIRM MESSAGE	1
R1A: 20							
RR							
0276	RESTROOM	TLT	2501	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
278	RESTROOM	TLT	2503	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0285	RESTROOM	TLT	2506	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0286	RESTROOM	TLT	2513	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0301	RESTROOM	STAFF TLT	2104	(MEN RESTROOM) MEN		CLIENT TO CONFIRM MESSAGE	1
0305	RESTROOM	STAFF TLT	2103	(WOMEN RESTROOM) WOMEN		CLIENT TO CONFIRM MESSAGE	1
0310	RESTROOM	PUBLIC TLT	2102	(MEN RESTROOM) MEN		CLIENT TO CONFIRM MESSAGE	1
0311	RESTROOM	PUBLIC TLT	2101	(WOMEN RESTROOM) WOMEN		CLIENT TO CONFIRM MESSAGE	1
RR: 8							
S01							
0271	STAIR EXTERIOR	STAIR 01	ST 01-2	(STAIR) STAIR 1 EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0312	STAIR EXTERIOR	STAIR 02	ST 02-2	(STAIR) STAIR 2 EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0346	STAIR EXTERIOR	STAIR 03	ST 03-2	(STAIR) STAIR 3 EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
S01: 3							
S02							
0273	STAIR INTERIOR	STAIR 01	ST 01-2	STAIR 1 NO ROOF ACCESS 1 FIRST FLOOR LEVELS G-3 RE-ENTRY (STAR) EXIT DISCHARGE THIS LEVEL		CLIENT TO CONFIRM MESSAGE	1
0314	STAIR INTERIOR	STAIR 02	ST 02-2	STAIR 2 ROOF ACCESS 2 SECOND FLOOR LEVELS G-3 RE-ENTRY (ARROW DOWN) DOWN TO LEVEL 1 FOR EXIT DISCHARGE		CLIENT TO CONFIRM MESSAGE	1
0348	STAIR INTERIOR	STAIR 03	ST 03-2	STAIR 3 NO ROOF ACCESS 3 THIRD FLOOR LEVELS G-3 RE-ENTRY (ARROW DOWN) DOWN TO LEVEL 1 FOR EXIT DISCHARGE		CLIENT TO CONFIRM MESSAGE	1
S02: 3							
S03							
0272	STAIR LEVEL ID	STAIR 01	ST 01-2	LEVEL 2 NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
0313	STAIR LEVEL ID	STAIR 02	ST 02-2	LEVEL 2 NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
0347	STAIR LEVEL ID	STAIR 03	ST 03-2	LEVEL 2 NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
S03: 3							
SC01							
0248	SECURE ROOM ID	CHASE	2408	2408 CHASE ROOM		CLIENT TO CONFIRM MESSAGE	1
0249	SECURE ROOM ID	COUNTY COURT at Law #1	2200	2200 COUNTY COURT AT LAW 1		CLIENT TO CONFIRM MESSAGE	1
0250	SECURE ROOM ID	IN VISIT	2405	2405 IN VISIT		CLIENT TO CONFIRM MESSAGE	1
0251	SECURE ROOM ID	IN VISIT	2406	2406 IN VISIT		CLIENT TO CONFIRM MESSAGE	1
0253	SECURE ROOM ID	DISTRICT COURT	2300	2300 82nd DISTRICT COURT		CLIENT TO CONFIRM MESSAGE	1
SC01: 5							
SC02							
0247	SECURE CELL ID	GROUP HOLDING	2409	2409		CLIENT TO CONFIRM MESSAGE	1
0252	SECURE CELL ID	IN VISIT	2407	2407		CLIENT TO CONFIRM MESSAGE	1
SC02: 2							
SC05							
0244	SECURE ELEVATOR EGRESS	ELEV 04	EL 04-2	IN CASE OF FIRE USE STAIRS UNLESS OTHERWISE INSTRUCTED		CLIENT TO CONFIRM MESSAGE	1
SC05: 1							
SL02							
0241	COUNTY SEAL AT COURTROOMS			(SEAL)		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
0267	COUNTY SEAL AT COURTROOMS			(SEAL)		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
SL02: 2							
SL03							
0467	COUNTY SEAL AT VESTIBULE	CIRC (STAFF)	2601	(SEAL)			1
SL03: 1							
Grand total: 145							

ARCHITECTURAL GRAPHICS SCHEDULE NOTES:

1. CLIENT NEEDS TO VERIFY MESSAGING BEFORE FABRICATION.

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
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1902 E Hwy 175
Kaufman, TX 75142

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
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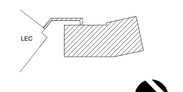
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 1	01-15-2021

Project No: 20.09003.00

Sheet Title
ARCHITECTURAL GRAPHICS - SCHEDULE L2

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
AG903

2021-01-13 8:27:47 AM

ARCHITECTURAL GRAPHICS SCHEDULE -LEVEL 03

MARK	SIGN DESCRIPTION	ROOM NAME	ROOM NUMBER	MESSAGE A	MESSAGE B	COMMENTS	COUNT
DL02							
0376	DIMENSIONAL LETTERSETS ON WOOD	DISTRICT COURT	3200	COURTROOM 6		CLIENT TO CONFIRM MESSAGE	1
0400	DIMENSIONAL LETTERSETS ON WOOD	JURY QUALIFICATION / CPS COURTROOM	3300	COURTROOM 5		CLIENT TO CONFIRM MESSAGE	1
DL02: 2							
DR01							
87	NO STORAGE SIGN	MECH.	3109	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
88	NO STORAGE SIGN	CIRC (STAFF)	3115	ELEVATOR MACHINERY NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
89	NO STORAGE SIGN	MECH.	3109	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
90	NO STORAGE SIGN	IDF	3107	NO STORAGE ALLOWED		PLACE ON DOOR FRONT	1
DR01: 4							
DR01							
0373	DIRECTORY SIGN	CIRC (PUBLIC)	3100	3 JURY QUALIFICATIONS MESSAGE TBD 2 COUNTY COURT AT LAW 2 88TH DISTRICT COURT DISTRICT ATTORNEY 1 COUNTY COURT AT LAW 1 422ND DISTRICT COURT COUNTY COURT DISTRICT CLERK COLLECTIONS COUNTY CLERK G PUBLIC DEFENDER ADULT PROBATION GRAND JURY		CLIENT TO CONFIRM MESSAGE	1
DR01: 1							
EE1							
0378	EXIT	CIRC (STAFF)	3115	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0380	EXIT	CIRC (STAFF)	3115	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0404	EXIT	JURY QUALIFICATION / CPS COURTROOM	3300	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0406	EXIT	CIRC (PUBLIC)	3100	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0407	EXIT	CIRC	3120	EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
EE1: 5							
ELE1							
0370	ELEVATOR EMERGENCY EGRESS PLAQUE	ELEV (PUBLIC)	ELEV 02-3	(EVACUATION MAP) IN CASE OF FIRE DO NOT USE ELEVATOR. USE STAIRS.		CLIENT TO CONFIRM MESSAGE	1
0454	ELEVATOR EMERGENCY EGRESS PLAQUE	ELEV (STAFF)	EL 03-3	(EVACUATION MAP) IN CASE OF FIRE DO NOT USE ELEVATOR. USE STAIRS.		CLIENT TO CONFIRM MESSAGE	1
ELE1: 2							
EL02							
0368	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	ELEV 02-3	3		CLIENT TO CONFIRM MESSAGE	1
0369	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	ELEV 02-3	3		CLIENT TO CONFIRM MESSAGE	1
0371	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 01-3	3		CLIENT TO CONFIRM MESSAGE	1
0372	ELEVATOR DOOR JAMB	ELEV (PUBLIC)	EL 01-3	3		CLIENT TO CONFIRM MESSAGE	1
0383	ELEVATOR DOOR JAMB	ELEV 04	EL 04-3	3		CLIENT TO CONFIRM MESSAGE	1
0384	ELEVATOR DOOR JAMB	ELEV 04	EL 04-3	3		CLIENT TO CONFIRM MESSAGE	1
0452	ELEVATOR DOOR JAMB	ELEV (STAFF)	EL 03-3	3		CLIENT TO CONFIRM MESSAGE	1
0453	ELEVATOR DOOR JAMB	ELEV (STAFF)	EL 03-3	3		CLIENT TO CONFIRM MESSAGE	1
EL02: 8							
F1							
0396	MEDIUM FLAG MOUNTED ID	CIRC (PUBLIC)	3100	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0416	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	3115	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0433	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	3115	(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0436	MEDIUM FLAG MOUNTED ID	CIRC (STAFF)	3115	(RESTROOM)	(RESTROOM)	CLIENT TO CONFIRM MESSAGE	1
0457	MEDIUM FLAG MOUNTED ID			(STAIR) STAIR 2 EXIT ROUTE	(STAIR)	CLIENT TO CONFIRM MESSAGE	1
0462	MEDIUM FLAG MOUNTED ID			(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
0463	MEDIUM FLAG MOUNTED ID			(FIRE EXTINGUISHER)	(FIRE EXTINGUISHER)	CLIENT TO CONFIRM MESSAGE	1
F1: 7							
F2							
0374	LARGE MOUNTED ID	DISTRICT COURT	3200	COURTROOM 5		CLIENT TO CONFIRM MESSAGE	1
0398	LARGE MOUNTED ID	JURY QUALIFICATION / CPS COURTROOM	3300	COURTROOM 6		CLIENT TO CONFIRM MESSAGE	1
F2: 2							
OC							
0377	MAXIMUM OCCUPANCY	DISTRICT COURT	3200	MAX OCCUPANCY 121 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0381	MAXIMUM OCCUPANCY	DISTRICT COURT	3200	MAX OCCUPANCY 121 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0401	MAXIMUM OCCUPANCY	JURY QUALIFICATION / CPS COURTROOM	3300	MAX OCCUPANCY 163 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
0402	MAXIMUM OCCUPANCY	JURY QUALIFICATION / CPS COURTROOM	3300	MAX OCCUPANCY 163 BY ORDER OF THE CODE OFFICIAL KEEP POSTED UNDER PENALTY OF LAW		CLIENT TO CONFIRM MESSAGE	1
OC: 4							
R1							
0392	ROOM ID	ATTY VISIT	3402	3402 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0393	ROOM ID	ATTY VISIT	3403	3403 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0394	ROOM ID	ATTY VISIT	3404	3404 ATTORNEY VISIT		CLIENT TO CONFIRM MESSAGE	1
0395	ROOM ID	ATTY CONF.	3401	3401 ATTORNEY CONFERENCE		CLIENT TO CONFIRM MESSAGE	1
0397	ROOM ID	VICTIM / WITNESS WAITING	3400	3400 VICTIM/WITNESS WAITING		CLIENT TO CONFIRM MESSAGE	1
0403	ROOM ID	JURY QUALIFICATION / CPS COURTROOM	3300	3300 JURY QUALIFICATION/CPS COURTROOM		CLIENT TO CONFIRM MESSAGE	1
0411	ROOM ID	JURY DELIBERATION	3500	3500 JURY DELIBERATION		CLIENT TO CONFIRM MESSAGE	1
0414	ROOM ID	JURY DELIBERATION	3502	3502 JURY DELIBERATION		CLIENT TO CONFIRM MESSAGE	1
0415	ROOM ID	ELEV. CTRL.	3116	3116 ELEVATOR CONTROL ROOM		CLIENT TO CONFIRM MESSAGE	1
0417	ROOM ID	COURT REPORTER	3509	3509 COURT REPORTER		CLIENT TO CONFIRM MESSAGE	1
0418	ROOM ID	COURT REPORTER STORAGE	3510	3510 COURT REPORTER STORAGE		CLIENT TO CONFIRM MESSAGE	1
0419	ROOM ID	WAITING	3504	3504 WAITING ROOM		CLIENT TO CONFIRM MESSAGE	1
0425	ROOM ID	CLERK OFFICE	3515	3515 CLERK OFFICE		CLIENT TO CONFIRM MESSAGE	1
0426	ROOM ID	WAITING	3511	3511 WAITING ROOM		CLIENT TO CONFIRM MESSAGE	1
0427	ROOM ID	CONF. ROOM	3113	3113 CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0428	ROOM ID	CONF. ROOM	3112	3112 CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0429	ROOM ID	CONF. ROOM	3111	3111 CONFERENCE ROOM		CLIENT TO CONFIRM MESSAGE	1
0430	ROOM ID	BREAK ROOM	3105	3105 BREAKROOM		CLIENT TO CONFIRM MESSAGE	1
0431	ROOM ID	COURT REPORTER	3516	3516 COURT REPORTER		CLIENT TO CONFIRM MESSAGE	1
0432	ROOM ID	COURT REPORTER STORAGE	3517	3517 COURT REPORTER STORAGE		CLIENT TO CONFIRM MESSAGE	1
0435	ROOM ID	MECH.	3109	3109 MECHANICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
0437	ROOM ID	ELECTRICAL	3108	3108 ELECTRICAL ROOM		CLIENT TO CONFIRM MESSAGE	1
0439	ROOM ID	JAN. CLOSET	3117	3117 JANITOR CLOSET JANITOR CLOSET		CLIENT TO CONFIRM MESSAGE	1
0440	ROOM ID	IDF	3107	3107 IDF		CLIENT TO CONFIRM MESSAGE	1
0451	ROOM ID	VEST/RECYC	3106	3106 VESTIBULE/RECYCLING		CLIENT TO CONFIRM MESSAGE	1
0461	ROOM ID	ELEV. CTRL.	3110	3110 ELEVATOR CONTROL ROOM		CLIENT TO CONFIRM MESSAGE	1
R1: 26							
R1A							

ARCHITECTURAL GRAPHICS SCHEDULE -LEVEL 03

MARK	SIGN DESCRIPTION	ROOM NAME	ROOM NUMBER	MESSAGE A	MESSAGE B	COMMENTS	COUNT
0375	ROOM ID NAME INSERT	DISTRICT COURT	3200	3200 MESSAGE TBD		CLIENT TO CONFIRM MESSAGE	1
0399	ROOM ID NAME INSERT	JURY QUALIFICATION / CPS COURTROOM	3300	3300 JURY QUALIFICATIONS		CLIENT TO CONFIRM MESSAGE	1
0420	ROOM ID NAME INSERT	COURT COORDINATOR	3508	3508 COURT COORDINATOR		CLIENT TO CONFIRM MESSAGE	1
0421	ROOM ID NAME INSERT	JUDGE'S CHAMBER	3507	3507 JUDGE'S CHAMBER		CLIENT TO CONFIRM MESSAGE	1
0424	ROOM ID NAME INSERT	JUDGE'S CHAMBER	3514	3514 JUDGE'S CHAMBER		CLIENT TO CONFIRM MESSAGE	1
R1A: 5							
RR							
0412	RESTROOM	TLT	3501	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0413	RESTROOM	TLT	3503	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0422	RESTROOM	TLT	3506	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0423	RESTROOM	TLT	3513	(ACCESSIBLE RESTROOM) RESTROOM		CLIENT TO CONFIRM MESSAGE	1
0434	RESTROOM	STAFF TLT	3104	(MEN RESTROOM) MEN		CLIENT TO CONFIRM MESSAGE	1
0450	RESTROOM	STAFF TLT	3103	(WOMEN RESTROOM) WOMEN		CLIENT TO CONFIRM MESSAGE	1
0455	RESTROOM	PUBLIC TLT	3102	(MEN RESTROOM) MEN		CLIENT TO CONFIRM MESSAGE	1
0456	RESTROOM	PUBLIC TLT	3101	(WOMEN RESTROOM) WOMEN		CLIENT TO CONFIRM MESSAGE	1
RR: 8							
S01							
0407	STAIR EXTERIOR	STAIR 01	ST 01-3	(STAIR) STAIR 1 EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
0458	STAIR EXTERIOR	STAIR 02	ST 02-3	(STAIR) STAIR 2 EXIT ROUTE		CLIENT TO CONFIRM MESSAGE	1
S01: 2							
S02							
0409	STAIR INTERIOR	STAIR 01	ST 01-3	STAIR 1 NO ROOF ACCESS 1 FIRST FLOOR LEVELS G-3 RE-ENTRY (DOWN ARROW) DOWN TO LEVEL 1 FOR EXIT DISCHARGE		CLIENT TO CONFIRM MESSAGE	1
0460	STAIR INTERIOR	STAIR 02	ST 02-3	STAIR 2 ROOF ACCESS 2 SECOND FLOOR LEVELS G-3 RE-ENTRY (ARROW DOWN) DOWN TO LEVEL 1 FOR EXIT DISCHARGE		CLIENT TO CONFIRM MESSAGE	1
S02: 2							
S03							
0408	STAIR LEVEL ID	STAIR 01	ST 01-3	LEVEL 3 NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
0459	STAIR LEVEL ID	STAIR 02	ST 02-3	LEVEL 3 NO RE-ENTRY		CLIENT TO CONFIRM MESSAGE	1
S03: 2							
SC01							
0386	SECURE ROOM ID	CHASE	3408	3408 CHASE ROOM		CLIENT TO CONFIRM MESSAGE	1
0387	SECURE ROOM ID	DISTRICT COURT	3200	3200 MESSAGE TBD		CLIENT TO CONFIRM MESSAGE	1
0388	SECURE ROOM ID	IN VISIT	3405	3405 IN VISIT		CLIENT TO CONFIRM MESSAGE	1
0389	SECURE ROOM ID	IN VISIT	3406	3406 IN VISIT		CLIENT TO CONFIRM MESSAGE	1
0391	SECURE ROOM ID	JURY QUALIFICATION / CPS COURTROOM	3300	3300 JURY QUALIFICATION/CPS COURTROOM		CLIENT TO CONFIRM MESSAGE	1
SC01: 5							
SC02							
0385	SECURE CELL ID	GROUP HOLDING	3409	3409		CLIENT TO CONFIRM MESSAGE	1
0390	SECURE CELL ID	IN VISIT	3407	3407		CLIENT TO CONFIRM MESSAGE	1
SC02: 2							
SC05							
0382	SECURE ELEVATOR EGRESS	ELEV 04	EL 04-3	IN CASE OF FIRE USE STAIRS UNLESS OTHERWISE INSTRUCTED		CLIENT TO CONFIRM MESSAGE	1
SC05: 1							
SL02							
0379	COUNTY SEAL AT COURTROOMS			(SEAL)		SEE DESIGN DOCUMENTATION FOR FULL MESSAGE	1
SL02: 1							

Grand total: 89

ARCHITECTURAL GRAPHICS SCHEDULE NOTES:

1. CLIENT NEEDS TO VERIFY MESSAGING BEFORE FABRICATION.

2021-01-13 8:27:47 AM

THE STATE OF TEXAS
KAUFMAN COUNTY

KAUFMAN COUNTY JUSTICE CENTER

Prepared For
KAUFMAN COUNTY
1902 E Hwy 175
Kaufman, TX 75142

Heilmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2926 Story Road West
Las Colinas, Texas 75038

Key Plan

Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 1	

Project No: 20.09003.00

Sheet Title

ARCHITECTURAL GRAPHICS - SCHEDULE L3

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

AG904

FIRE PUMP SCHEDULE

PUMP	MANUFACTURER	TYPE	SERIES/MODEL	MAX BHP	RPM
	AC-FIRE ITT	HSC	8100 / 8X6X12F-M	253	3555
MOTOR	MANUFACTURER	TYPE	FRAME	RATED HP	VOLTAGE/PHASES
	BALDOR	ODP	449TS	250	460V / 3-PHASE
CONTROLLER	MANUFACTURER	TYPE	MODEL	RATED HP	AUTO TRANSFER SWITCH
	EATON	SOFT-START SOFT-STOP	FT90-2500-L1	250	YES
JOCKEY PUMP	MANUFACTURER	TYPE	MODEL	RATED HP	RATED
	AC-FIRE ITT	VERTICAL MULTISTAGE	1SV15FD4C60	1.5	RATED: 5 GPM AT 178 PSI CHURN: 184
JOCKEY PUMP CONTROLLER	MANUFACTURER	TYPE	MODEL	RATED HP	VOLTAGE/PHASES
	TORNATECH	ATL	JP3	1.5	200-208V / 3-PHASE

1. PROVIDE SKID SYSTEM WITH THE FOLLOWING ACCESSORIES:
   - FIRE PUMP TEST LOOP
   - BYPASS FIRE PUMP
   - ELECTRIC JOCKEY PUMP CONTROLLER
   - FIRE PUMP TEST HEADER CONNECTION
2. PUMP SCHEDULE IS APPROXIMATE. FINAL PUMP SELECTION SHALL BE BY SPRINKLER CONTRACTOR.

FIRE PROTECTION GENERAL NOTES

1. ALL SPRINKLERS IN SPACES VISIBLE TO PUBLIC VIEW SHALL BE LOCATED SYMMETRICALLY IN RELATION TO CEILING DESIGN ELEMENTS, LIGHTING FIXTURES, SPEAKERS, DIFFUSERS, ETC. ALL CEILING COMPONENTS ARE TO BE INDICATED ON THE SUBMITTAL DRAWINGS AS NOTED PREVIOUSLY TO INSURE COORDINATION WITH ALL CEILING ELEMENTS AND DEVICES. PIPING TO SPRINKLERS IN THESE AREAS IS TO BE PROVIDED WITH RETURN BENDS IF REQUIRED TO ALLOW FOR EXACT PLACEMENT.
2. SPRINKLER HEADS INSTALLED IN LAY-IN ACOUSTICAL TILE CEILINGS SHALL BE CENTERED IN THE CEILING TILES OR INSTALLED ON QUARTER POINTS OF THE FOUR FOOT DIMENSIONS OF 2' x 4' TILES.
3. ALL FIRE PROTECTION WORK SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF NFPA 13 AND SHALL MEET THE APPROVAL OF THE OWNERS INSURANCE UNDERWRITER, AND LOCAL AUTHORITIES HAVING JURISDICTION.
4. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ORDERING, PURCHASING, OR FABRICATION ANY FIRE PROTECTION EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: SPRINKLER DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A REGISTERED TEXAS RME; SPRINKLER PIPING; SPRINKLER HEADS; HOSE RACKS, HYDRANTS AND VALVES; PUMPS, CONTROLLERS AND ACCESSORIES; TANKS AND ACCESSORIES. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO BEING SUBMITTED TO THE ARCHITECT.
5. CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
6. ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER.
7. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS. THIS INCLUDES ALL EXISTING SPRINKLER PIPING. IF EXISTING SPRINKLER PIPING IS SUPPORTED BY CEILING TILES/CEILING STRUCTURES, THE CONTRACTOR SHALL DETACH THE EXISTING SPRINKLER PIPING FROM CEILING TILES/CEILING STRUCTURE AND REATTACH TO BUILDING STRUCTURE.
8. ALL SPRINKLER SYSTEMS SHALL BE DESIGNED TO THE AVAILABLE CITY WATER SUPPLY. CONTRACTOR SHALL HAVE CURRENT FLOW TEST PERFORMED PRIOR TO DESIGN. A MINIMUM 10 PSI SAFETY FACTOR SHALL BE MAINTAINED BETWEEN REQUIRED PRESSURE DEMAND AND AVAILABLE WATER SUPPLY.
9. ALL SPRINKLER SYSTEM RISERS SHALL INCLUDE AN ALARM CHECK VALVE, OUTSIDE WATER MOTOR GONG OR ELECTRIC BELL, INSIDE ELECTRIC BELL, FLOW SWITCH, ETC.
10. HYDRAULIC CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR INSIDE AND OUTSIDE HOSE STREAMS AS REQUIRED BY NFPA 13.
11. ALL MAJOR VALVES SHALL HAVE U.L. LISTED SUPERVISORY SWITCHES COMPATIBLE WITH THE OWNERS CENTRAL ALARM SYSTEM. WIRING OF THE SWITCHES SHALL BE BY OTHERS.
12. GROOVED (VICTAULIC) COUPLINGS SHALL NOT BE USED OVER OR NEAR ELECTRICAL SWITCHGEAR, PANELS OR TRANSFORMERS.
13. ALL SPRINKLER PIPING SHALL BE ROUTED TO MAINTAIN MINIMUM CLEAR HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS.
14. ALL DRY PIPE SPRINKLER SYSTEMS SHALL BE COMPLETE WITH OS&Y GATE VALVES AND DRY PIPE VALVES, AIR COMPRESSORS, WATER MOTOR GONGS, ELECTRIC BELLS, ACCESSORIES AND PRESSURE SWITCHES COMPATIBLE WITH THE OWNERS CENTRAL ALARM SYSTEM. WIRING OF THE SWITCHES WILL BE BY OTHERS.
15. ALL PIPING ON THE SYSTEM SIDES OF DRY PIPE OR PRE-ACTION VALVES SHALL BE GALVANIZED CLASS 150 AND 300 MALLEABLE IRON THREADED FITTINGS, ANSI B16.1.
16. DO NOT ROUTE SPRINKLER PIPING DIRECTLY OVER ELECTRICAL PANELS.
17. AUTOMATIC SPRINKLERS SHALL NOT BE INSTALLED IN MACHINE ROOMS, ELEVATOR MACHINERY SPACES, CONTROL ROOMS, CONTROL SPACES, AND ELEVATOR HOIST-WAYS.
18. AN APPROVED METHOD TO PREVENT WATER FROM INFILTRATING THE HOISTWAY ENCLOSURE FROM THE OPERATION OF THE AUTOMATIC SPRINKLER SYSTEM OUTSIDE THE ELEVATOR LOBBY SHALL BE PROVIDED.

KAUFMAN COUNTY
JUSTICE CENTER

Prepared For
KAUFMAN COUNTY

Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

Engineering Firm : F-4050
Dallas/Fort Worth, Texas
www.mepce.com
972-870-9060

PROJECT CODE
31.00154

Key Plan

Professional Seals

THIS DOCUMENT IS INTENDED TO DESCRIBE THE FUNCTION, PLACEMENT, PERFORMANCE, AND OPERATION OF THE FIRE PROTECTION SYSTEM FOR PLANNING PURPOSES ONLY. FINAL SHOP DRAWINGS FOR PERMIT APPROVAL SHALL BE PROVIDED BY A LICENSED FIRE PROTECTION CONTRACTOR.

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

FIRE PROTECTION GENERAL NOTES AND LEGEND

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

FP001

1/14/2021 1:49:49 PM

SUMP PUMP SCHEDULE

MARK	LOCATION	CAPACITY (GPM)	MAXIMUM HEAD (FT)	MOTOR HORSE POWER	DISCHARGE SIZE (IN)	RPM	ELECTRICAL DATA			MANUFACTURER	MODEL
							VOLTAGE	PHASE	HZ		
SP-1	EL 04-0	50	19	1/3	2	1,750	120	1	60	LITTLE GIANT	WS30M
SP-2	EL 03-0	50	19	1/3	2	1,750	120	1	60	LITTLE GIANT	WS30M
SP-3	EL 01-0	100	19	1/2	2	1,750	120	1	60	LITTLE GIANT	WS50HM

NOTES:

1. REFER TO ARCHITECTURAL AND STRUCTURAL COMPLIANCE INFORMATION REGARDING BASIS DESIGNER REQUIREMENTS.
2. PROVIDE SUMP PUMP WITH ALDERON OIL ALERT CONTROL PANEL AND REMOTE ALARM. SYSTEM SHALL HAVE AUTOMATIC CONTROL FLOAT SWITCHES; PUMP ON, PUMP OFF, AND HIGH WATER ALARM. ALL FIELD ADJUSTABLE AND WITH POWER CORD, CHECK VALVE, AND SHUT-OFF VALVE.
3. CONTROLS CONTRACTOR SHALL PROVIDE ENABLE/DISABLE BMS CONTROLS FOR SUMP PUMPS.

DOMESTIC WATER HEAT EXCHANGER SCHEDULE

		DOMESTIC WATER SIDE				HEATING HOT WATER SIDE				
MARK	TYPE	EWT (°F)	LWT (°F)	FLOW (GPM)	PRESSURE DROP (PSI)	EWT (°F)	LWT (°F)	FLOW (GPM)	PRESSURE DROP (PSI)	MANUFACTURER / MODEL #
DWHX-1	PLATE AND FRAME	67	140	50	3	150	100	80	3	LOCHINVAR / IPW090DW
DWHX-2	PLATE AND FRAME	67	140	50	3	150	100	80	3	LOCHINVAR / IPW090DW

NOTES:

1. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL.
2. ASME DOUBLE WALL HEAT EXCHANGER.
3. WITH DIGITAL DISPLAY AND MODULATING CONTROL VALVE.
4. PROVIDED WITH INTEGRAL STRAINERS AND ISOLATION VALVES.
5. CONTROLS CONTRACTOR SHALL PROVIDE ENABLE/DISABLE CONTROLS FOR HEAT EXCHANGERS.

HOT WATER MAXIMUM PIPING LENGTHS

FIXTURE	HW / TW PIPE SIZE (IN)	MAXIMUM HOT WATER LENGTH FROM HEATING SOURCE (FT)
LAVATORY	1/2	2
MOP SINK	3/4	21
SINK	1/2	43

NOTES:

1. REFER TO 2015 INTERNATIONAL ENERGY CONSERVATION CODE TABLE C404.5.1 FOR MORE INFORMATION. SYSTEM SHALL COMPLY.
2. HEATING SOURCE REFERS TO CIRCULATING HOT WATER LOOP, TANK WATER HEATER OR INSTANTANEOUS WATER HEATER.

DOMESTIC WATER BOOSTER PUMP SCHEDULE

MARK	SERVICE	NUMBER OF PUMPS	FLOW SPLIT	MOTOR HORSE POWER	TOTAL FLOW (GPM)	MAX RPM	DUTY HEAD (PSI)	VOLTAGE/PHASE	MANUFACTURER / PUMP MODEL # / STATION MODEL #
DWBP-1	BOILER/PLBG/FIRE PROT.	2	50 / 50	5	124	3600	70	460 / 3	BELL AND GOSSETT / 1SSV2GG4C60 / V2VEC6G20B1GCK

NOTES:

1. INSTALL PER MANUFACTURER'S INSTALLATION MANUAL.

BALANCING VALVE SCHEDULE

MARK	TYPE	MANUFACTURER	SERIES
BV-1	THERMAL BALANCING VLAVE	BELL & GOSSETT	TSB-3/4C

NOTES:

1. PROVIDE WITH THERMOSTATIC BYPASS CARTRIDGE, TEMPERATURE GAUGE, AND CHECK VALVE. PROVIDE WITH INSULATION SHELL. TYPICAL OF ALL BALANCING VALVES.
2. SET SYSTEM TO MAINTAIN 110°F RETURN WATER TEMPERATURE.
3. REFER TO FLOOR PLANS FOR SPECIFIC BALANCING VALVE GPM REQUIREMENTS. PROVIDE BELL & GOSSETT "CIRCUIT SETTER" IF GPM EXCEEDS MANUFACTURER RECOMMENDED VALUES FOR THERMAL BALANCING VALVE.
4. PROVIDE SHUT-OFF VALVE AT INLET. PROVIDE CHECK VALVE AND SHUT-OFF VALVE AT OUTLET. TYPICAL OF ALL BALANCING VALVES.

WATER HAMMER ARRESTOR

FIXTURE	#100	#200	#300	#400	#500
PDI UNITS	A	B	C	D	E
FIXTURE UNITS	1 - 11	12 - 32	33 - 60	61 - 113	114 - 154

NOTES:

1. WATER HAMMER ARRESTORS SHALL BE FURNISHED AND INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
2. FLUSH VALVE WATER CLOSETS = 10 FIXTURE UNITS.
3. FLUSH-VALVE URINAL = 5 FIXTURE UNITS.
4. LOCATE WATER HAMMER ARRESTOR BETWEEN LAST TWO FLUSH-VALVE FIXTURES.
5. WATER HAMMER ARRESTORS SHALL COMPLY WITH PDI-WH-201.
6. WATER HAMMER ARRESTORS SHALL BE PROVIDED WITH AN ACCESS DOOR UNLESS PROVIDED WITH A LIFETIME WARRANTY.

GAS LOAD

EQUIPMENT	GAS LOAD (MBH)	PIPE CONNECTION SIZE
B-1	1750	1-1/2"
B-2	1750	1-1/2"
GENERATOR	3500	4"
TOTAL	7000	

GENERAL PLUMBING SCHEDULE

MARK	FIXTURE	MAX GPM/GPF	CW	HW/TW	WASTE	VENT	DESCRIPTION
CP-1	CLOSE COUPLED IN-LINE HOT WATER CIRCULATION PUMP	-	-	-	-	-	ARMSTRONG MODEL 20-20SS VARIABLE SPEED CIRCULATOR, 0' TO 20' HEAD RANGE, MINIMUM 5 WATTS, MAXIMUM 45 WATTS, 120/1. PROVIDE WITH MANUAL SPEED ADJUSTAT, AND TIMER SWITCH. REFER TO SPECIFICATIONS. SET PUMP TO MAINTAIN 100°F RETURN WATER TEMPERATURE.
DYCO	DOUBLE YARD CLEANOUT	-	-	-	*	-	JOSAM MODEL 58680 CAST IRON DOUBLE YARD CLEANOUT. PROVIDE "T" HANDLE WRENCH.
EWC-1	ELECTRIC WATER COOLER (BI-LEVEL WITH BOTTLE FILLER)	-	1/2"	-	2"	1-1/2"	ELKAY MODEL EZWS-EPPBM08K WALL MOUNTED BI-LEVEL FILTERED WATER COOLER WITH BOTTLE FILLER. PROVIDE WITH CANE APRON AND CARRIER. BARRIER FREE AND VANDAL RESISTANT. MIRROR UNIT AS SHOWN ON ARCHITECTURAL ELEVATIONS (PROVIDE CUSTOM IN THESE CONDITIONS).
FCO	FLOOR CLEANOUT	-	-	-	*		JOSAM MODEL 55000 CAST IRON FLOOR CLEANOUT.
FD-1	FLOOR DRAIN (SQUARE STRAINER TILE FLOORS)	-	-	-	*	2"	WATTS MODEL FD-100-M. 5" NICKEL BRONZE STRAINER. EQUIP WITH TRAP PROTECTION DEVICE.
FD-2	FLOOR DRAIN (ANTI-LIGATURE)	-	-	-	2"	2"	WHITEHALL MANUFACTURING MODEL WHFD STAINLESS STEEL LIGATURE RESISTANT FLOOR DRAIN, 5" ROUND ADJUSTABLE STRAINER HEAD WITH VANDAL RESISTANT SCREWS, CLAMPING FLANGE, 2" BOTTOM OUTLET.
FD-3	FLOOR DRAIN (ROUND)	-	-	-	2"	2"	WATTS MODEL FD-100-B. 5" NICKEL BRONZE STRAINER. EQUIP WITH TRAP PROTECTION DEVICE.
FS-1	FLOOR SINK (ROUND STRAINER)	-	-	-	*	2"	WATTS MODEL FS-720. Ø12, 6" DEEP WITH WHITE FINISH, 1/2 CAST IRON GRATE, AND ALUMINUM DOME STRAINER
IMB-1	REFRIGERATOR ICE MAKER BOX	-	1/2"	-	-	-	IPS MODEL AB9700 REFRIGERATOR ICE MAKER OUTLET BOX WITH QUARTER TURN BALL VALVE AND HAMMER ARRESTOR. BOX SHALL BE COMPLETELY RECESSED WITHOUT FLANGES.
IWH-1	INSTANTANEOUS WATER HEATER (ELECTRIC)	0.5	1/2"	1/2"	-	-	EEMAX MODEL MT0041207. 50°F TEMPERATURE RISE WITH 0.3 GPM TURN-ON. HEATER SHALL BE ASSE 1070 COMPLIANT. 120/1 AND 3.5 KW.
L-1	LAVATORY UNDERMOUNT (TAS)	0.5	1/2"	1/2"	2"	2"	TOTO MODEL LT191G WITH UNDER-MOUNT SINK. EQUIP WITH: SLOAN OPTIMA MODEL EAF-275 DECK-MOUNTED SENSOR FAUCET. PROVIDE FAUCET WITH BACK UP LITHIUM BATTERY PACK. WATTS MODEL LFUSG-B ASSE 1070 THERMOSTATIC MIXING VALVE.
L-2	LAVATORY WALL MOUNT (TAS)	0.5	1/2"	1/2"	2"	2"	TOTO MODEL LT308A WALL HUNG LAVATORY WITH FRONT OVERFLOW. EQUIP WITH: SLOAN MODEL OPTIMA MODEL EAF-275 FIXTURE-MOUNTED SENSOR FAUCET. PROVIDE FAUCET WITH BACK UP LITHIUM BATTERY PACK. WATTS MODEL LFUSG-B ASSE 1070 THERMOSTATIC MIXING VALVE. PROVIDE WITH PS CORPORATION LAV GUARD 2 UNDERSINK PIPING COVERS. PROVIDE MIXING VALVE WITH IN ACCESS PANEL.
MS-1	MOP SINK	2.2	3/4"	3/4"	3"	2"	STERN-WILLIAMS CO. SBC-1725 MOP SINK WITH STAINLESS STEEL CAP & CURBS, T-35 HOSE & HOSE BRACKET, T-40 MOP HANGER, AND STAINLESS STEEL WALL GUARDS FOR ADJACENT WALLS. EQUIP WITH: CHICAGO FAUCETS MODEL: 540-DJ897SWXFABCP MANUALLY-OPERATED FAUCET.
N-1	DOWNSPOUT NOZZLE (SERVES OVERFLOW ROOF DRAINS)	-	-	-	*	-	JOSAM SERIES 25010 DOWNSPOUT NOZZLE. REFER TO PLANS FOR SIZING. MOUNT 2'-0" ABOVE FINISHED GRADE.
NFWH-1	NON-FREEZE WALL HYDRANT	-	3/4"	-	-	-	WOODFORD MODEL B65 NON-FREEZE KEY OPERATED WALL HYDRANT WITH CHROME PLATED FACE AND VACUUM BREAKER.
ORD-1	OVERFLOW ROOF DRAIN	-	-	-	*	-	WATTS MODEL RD-100 ROOF DRAIN AND CAST IRON DOME. REFER TO PLANS FOR SIZING. PROVIDE WITH 2" EXTERNAL WATER DAM. TERMINATE WITH DOWNSPOUT NOZZLE.
PRV-1	PRESSURE REDUCING VALVE	-	*	-	-	-	WATTS MODEL LFM115-74 PRESSURE REDUCING VALVE WITH STRAINER AND LOW FLOW BYPASS. SET PRV PRESSURE TO 60 PSI. SET INLET PRESSURE OF 85 PSI.
RD-1	ROOF DRAIN	-	-	-	*	-	WATTS MODEL RD-100 ROOF DRAIN AND CAST IRON DOME. REFER TO PLANS FOR SIZING.
RPBP-1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	-	3"	-	-	-	WATTS MODEL LF009 ASSE 1013 COMPLIANT REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY WITH QUARTER TURN BALL VALVES. PROVIDE STRAINER AT INLET.
S-1	SINGLE COMPARTMENT SINK (ADA/TAS)	-	1/2"	1/2"	2"	1-1/2"	ELKAY MODEL ELUHAD121255, UNDERMOUNT SINK. EQUIP WITH MOEN MODEL: 7565 PULL-DOWN KITCHEN FAUCET, RESIST STAINLESS FINISH.
TMV-1	THERMOSTATIC MASTER MIXING VALVE (ELECTRONIC)	70	2"	2"	-	-	ARMSTRONG MODEL DMC40BS FLEX ELECTRONIC MASTER MIXING VALVE. INTEGRATE MIXING VALVE INTO BUILDING MANAGEMENT SYSTEM. TEMPER TO 110°F.
UR-1	URINAL WALL MOUNT, WALL OUTLET FLUSH VALVE (TAS)	0.125	3/4"	-	2"	2"	AMERICAN STANDARD MODEL: 6590.001 VITREOUS CHINA WALL MOUNTED WITH SLOAN ROYAL 186 MANUAL FLUSH VALVE.
WC-1	WATER CLOSET WALL MOUNT, FLUSH VALVE (TAS)	1.28	1"	-	4"	2"	AMERICAL STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED FLUSHOMETER TOILET, TAS ACCESSIBLE WATER CLOSET WITH SLOAN ROYAL 111-1.28 MANUAL FLUSH VALVE. MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
WC-2	WATER CLOSET WALL MOUNT, FLUSH VALVE	1.28	1"	-	4"	2"	AMERICAL STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED FLUSHOMETER TOILET, WATER CLOSET WITH SLOAN ROYAL 111-1.28 MANUAL FLUSH VALVE. MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
WC-3	WATER CLOSET FLOOR MOUNT, LAVATORY COMBINATION UNIT	1.28	1"	1/2"	4"	2"	WILLOUGHBY INDUSTRIES MODEL: ECW-1806. EQUIP LAVATORY WITH LIGATURE-RESISTANT BUBBLERFILLER (STANDARD), A SINGLE TEMP. PNEUMATIC NON-METERING VALVE, LIGATURE-RESISTANT PNEUMATIC PUSH BUTTONS, INTEGRAL P-TRAP, WASTE EXTENSION AND OVERFLOW. EQUIP WITH WASTE EXTENSION CONNECTING TO 4" CAST IRON, MANUAL RESET OVERFLOW PREVENTER, HYDRAULIC FLUSH VALVE, FLUSH VALVE CONNECTION AND RECESSED TISSUE HOLDER. SLOAN ROYAL 952-1.28-2-10-3/4-LDIM.
WC-4	WATER CLOSET FLOOR MOUNT, LAVATORY COMBINATION UNIT (ADA)	1.28	1"	1/2"	4"	2"	WILLOUGHBY INDUSTRIES MODEL: ECW-4896. EQUIP LAVATORY WITH LIGATURE-RESISTANT DECK MOUNTED BUBBLER, SINGLE TEMP. PNEUMATIC NON-METERING VALVE, LIGATURE-RESISTANT PNEUMATIC PUSH BUTTONS, INTEGRAL P-TRAP, WASTE EXTENSION AND OVERFLOW. EQUIP WITH WASTE EXTENSION CONNECTING TO 4" CAST IRON, MANUAL RESET OVERFLOW PREVENTER, HYDRAULIC FLUSH VALVE, FLUSH VALVE CONNECTION, AND LIGATURE-RESISTANT DM DRINKING FOUNTAIN BUBBLER. SLOAN ROYAL 952-1.28-2-10-3/4-LDIM.
WCO	WALL CLEANOUT	-	-	-	*	-	JOSAM MODEL 58600-CO CAST IRON WALL CLEANOUT.
YCO	YARD CLEANOUT	-	-	-	*	-	JOSAM MODEL 57008-Z-LT CAST IRON YARD CLEANOUT.

NOTES:

1. THE SCHEDULE ABOVE IS INFORMATIONAL AND IS IN NO WAY INTENDED TO SPECIFY ALL NECESSARY APPURTENANCES FOR THE FIXTURES LISTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE COMPLETE AND OPERATING PLUMBING SYSTEMS.
2. PROVIDE AND INSTALL STOPS AT ALL FIXTURES.
3. REFER TO NOTE BY SYMBOLS ON DRAWINGS FOR HW/TW CONNECTION TYPE.
4. PROVIDE AND INSTALL WALL CLEANOUTS WHERE REQUIRED BY THE IPC.
5. COORDINATE FIXTURE COLORS AND FIXTURE FINISHES WITH ARCHITECT PRIOR TO...
6. FLUSH VALVE LEVERS SHALL BE INSTALLED ON WIDE SIDE OF STALL.
7. WHERE REQUIRED, PLUMBING FIXTURES SHALL BE INSTALLED AT A HEIGHT THAT IS CONSISTENT WITH TAS REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF ALL WALL HUNG FIXTURES.
8. * FIXTURE SHALL MATCH PIPE SIZE ON PLAN/RISER.
9. UNLESS NOTED OTHERWISE, ALL FLOOR DRAINS, AND FLOOR SINKS SHALL BE EQUIPPED WITH TRAP PROTECTION DEVICES BY PROSET SYSTEMS, TRAP PROTECTION DEVICES SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
10. INSTALL ALL CONDENSATE DRAIN PIPE TO FLOOR DRAINS/SINKS SO THAT THERE IS NO RUNOUT OF WATER TO ADJACENT FLOORS. IN MECHANICAL TYPE SPACES, INSTALL FLOOR DRAINS TO WHICH CONDENSTES WILL DRAIN APPROXIMATELY 1/4" BELOW ADJACENT FLOOR LEVEL TO PREVENT RUNOFF.
11. COORDINATE FLOOR DRAIN COVERS AT TILE AND THICK FLOOR MATERIALS FOR FLUSH INSTALLATION. USE SQUARE DRAIN COVERS AT CERAMIC TILE.
12. LOCATE WATER CONNECTIONS TO EQUIPMENT WHERE THEY WILL BE LEAST VISUALLY OBSTRUCTIVE AND WILL NOT REQUIRE SUPPLY LINES TO EQUIPMENT IN LOCATIONS THAT WILL BE VISIBLE IN THE COMPLETED WORK. CONTRACTOR SHALL ENSURE OUTLET SUPPLY BOXES ARE AS CONCEALED AS POSSIBLE.
13. COORDINATE HOLE DRILLING CLOSELY WITH ARCHITECT.
14. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT A DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER.
15. PITCH ALL DRAINAGE PIPING AT A MINIMUM OF 1/4" PER FOOT FOR 3" AND SMALLER AND 1/8" PER FOOT FOR 4" AND LARGER, UNLESS NOTED OTHERWISE.
16. FOR ALL REDUCED PRESSURE BACKFLOW PREVENTERS, FURNISH DRAIN LINE WITH INTEGRAL AIR GAP, FULL SIZE OF DRAIN OPENING IN BACKFLOW PREVENTER, TO NEAREST FLOOR DRAIN OR FLOOR SINK, OR AS NOTED ON DRAWINGS.

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Hellmuth, Obata & Kassabaum, Inc.
717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

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www.mepce.com
972-870-9060

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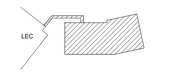
Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

PLUMBING SCHEDULES

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

P002

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PLAN NOTES

1. CONTRACTOR SHALL VERIFY SANITARY INVERT ELEVATIONS PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL FIELD COORDINATE ALL UNDERGROUND PIPING WITH MECHANICAL, CIVIL, ELECTRICAL, AND LANDSCAPING DISCIPLINES.
3. PENETRATE STRUCTURAL GRADE BEAMS/PIER CAPS AS REQUIRED. REFER TO STRUCTURAL DRAWINGS FOR GRADE BEAM PENETRATION DETAILS. ROUTE UNDERSLAB PIPING BENEATH GRADE BEAMS AS OFTEN AS POSSIBLE. DO NOT PENETRATE PIERS, OFFSET PIPING AS REQUIRED.
4. PROVIDE P-TRAPS FOR ALL PLUMBING FIXTURES AS REQUIRED BY CODE.
5. PROVIDE SUPERVOID BELOW SLAB PIPE HANGER SYSTEM FOR ALL WASTE, WATER, ROOF DRAIN, AND FIRE WATER SHOWN ON THIS PLAN. REFER TO SUPERVOID DETAIL FOR ADDITIONAL INFORMATION. (1)
6. COMPONENTS OF A PLUMBING SYSTEM INSTALLED WITHIN 3 FEET ALONG ALLEYWAYS, DRIVEWAYS, PARKING GARAGES OR OTHER LOCATIONS IN A MANNER IN WHICH THEY COULD BE EXPOSED TO DAMAGE SHALL BE RECESSED INTO THE WALL OR OTHERWISE PROTECTED IN AN APPROVED MANNER.

(1)
7. NATURAL GAS BURIAL DEPTH SHALL BE 18" TOP OF PIPE BELOW GRADE.

NOTES BY SYMBOL

1. WASTE PIPE DOWN FROM LEVEL ABOVE.
2. 2" SUMP PUMP DISCHARGE UP. CONNECT TO NEARBY 6" STORM SEWER LATERAL.
3. ROOF DRAINS DOWN FROM LEVEL ABOVE. REFER TO PLAN FOR PIPE SIZING.
4. NATURAL GAS UP THROUGH PAVEMENT TO SERVE BOILER ROOM.
5. 2" WASTE PIPE DOWN FROM LEVEL ABOVE.
6. TERMINATE SUBSOIL DRAINAGE INTO ELEVATOR SUMP PIT. SLOPE ENTIRE SYSTEM 1/8" PER FOOT TO THIS TERMINATION LOCATION FROM BOTH SIDES. REFER TO PLANS FOR PIPING DEPTH.

1 PLUMBING UNDERSLAB PLAN
1/8" = 1'-0"

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717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

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MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

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1	ADDENDUM 01	01-15-2021

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Sheet Title

PLUMBING UNDERSLAB PLAN

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

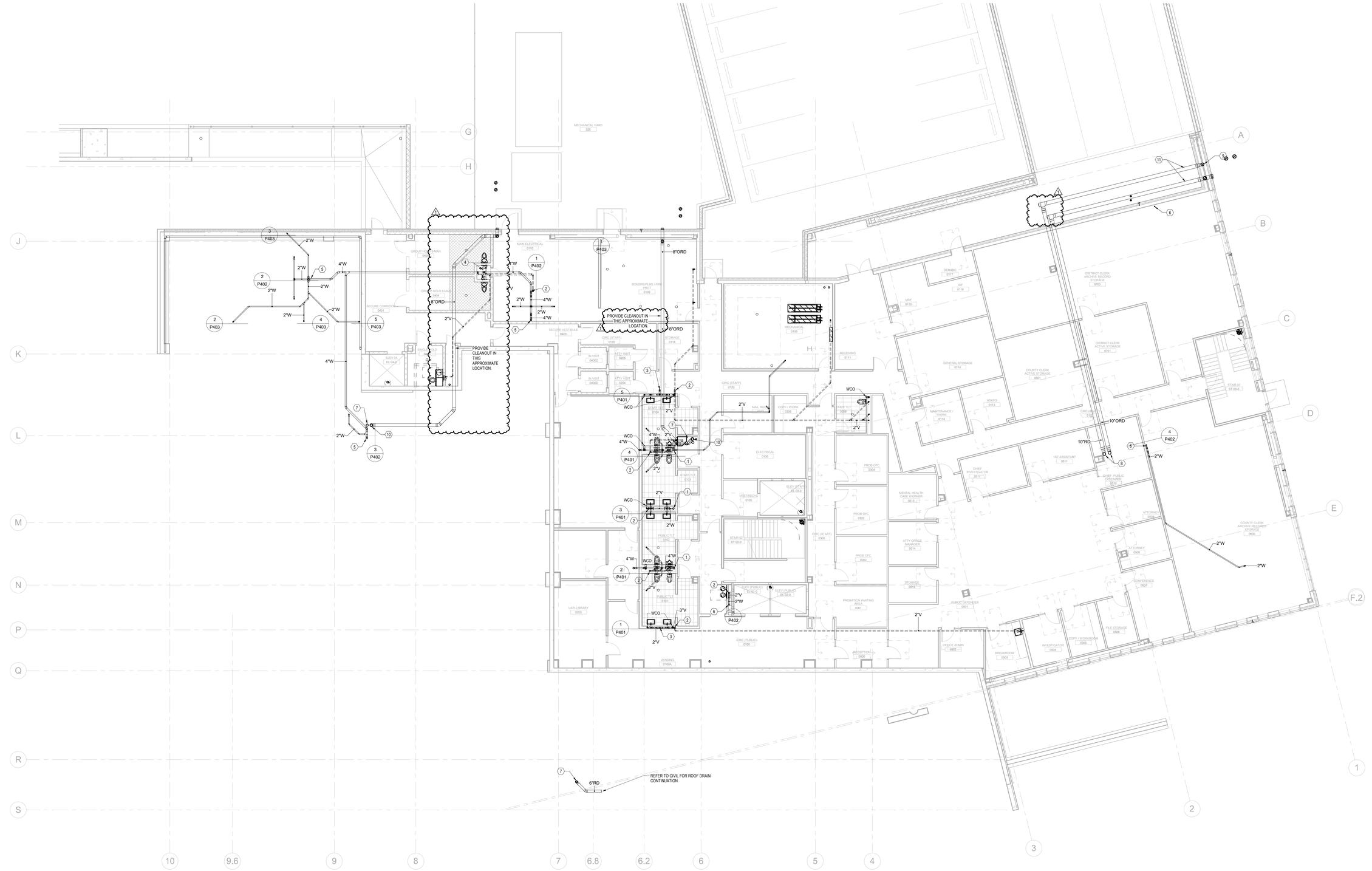
P007

PLAN NOTES

1. REFER TO WASTE AND VENT RISER DIAGRAM FOR VISUAL REPRESENTATION.
2. CONTRACTOR SHALL FIELD COORDINATE ALL CONDITIONS WITH ALL DISCIPLINES AND ADJUST PIPING LAYOUT AS NECESSARY.
3. REFER TO GENERAL PLUMBING SCHEDULE FOR SANITARY SEWER AND VENT CONNECTION SIZES.
4. PROVIDE P-TRAPS FOR ALL PLUMBING FIXTURES AND DRAINS AS REQUIRED BY CODE.
5. PROVIDE P-TRAPS WITH CLEANOUT PLUGS FOR ALL SINK/LAVATORY FIXTURES.
6. ALL ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING SHALL BE INSULATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE WYE FITTINGS AND LONG RADIUS ELBOWS FOR ALL WASTE, ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING.
8. TERMINATE REDUCED PRESSURE ZONE BACKFLOW PREVENTER WASTE TWO PIPE DIAMETERS ABOVE FLOOD RIM OF NEARBY DRAIN.

NOTES BY SYMBOL

1. 4" SANITARY SEWER STACK DOWN FROM LEVEL ABOVE. CONTINUE TO BELOW.
2. 3" VENT STACK UP TO LEVEL ABOVE.
3. 3" SANITARY SEWER STACK DOWN FROM LEVEL ABOVE. CONTINUE TO BELOW.
4. 4" SANITARY SEWER STACK DOWN TO LEVEL BELOW.
5. 4" SANITARY SEWER STACK DOWN FROM LEVEL ABOVE.
6. 2" SANITARY SEWER STACK DOWN FROM LEVEL ABOVE. CONTINUE TO BELOW.
7. 6" ROOF DRAINS DOWN FROM LEVEL ABOVE. CONTINUE TO BELOW SLAB.
8. ROOF DRAINS DOWN FROM LEVEL ABOVE. CONTINUE ROUTING ROOF DRAINS THROUGH PLENUM SPACE.
9. DROOF DRAINS DOWN TO BELOW SLAB.
10. 6" ROOF DRAINS DOWN FROM LEVEL ABOVE.
11. HEAT TRACE ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING OUTSIDE OF THE CONDITIONED SPACE.



1 PLUMBING WASTE AND VENT PLAN - GROUND LEVEL

1/8" = 1'-0"

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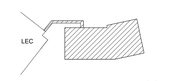

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Sheet Title

PLUMBING WASTE & VENT FLOOR PLAN - GROUND LEVEL

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Sheet Number

P101

PLAN NOTES

1. REFER TO WASTE AND VENT RISER DIAGRAM FOR VISUAL REPRESENTATION.
2. CONTRACTOR SHALL FIELD COORDINATE ALL CONDITIONS WITH ALL DISCIPLINES AND ADJUST PIPING LAYOUT AS NECESSARY.
3. REFER TO GENERAL PLUMBING SCHEDULE FOR SANITARY SEWER AND VENT CONNECTION SIZES.
4. PROVIDE P-TRAPS FOR ALL PLUMBING FIXTURES AND DRAINS AS REQUIRED BY CODE.
5. PROVIDE P-TRAPS WITH CLEANOUT PLUGS FOR ALL SINK/LAVATORY FIXTURES.
6. ALL ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING SHALL BE INSULATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE WYE FITTINGS AND LONG RADIUS ELBOWS FOR ALL WASTE, ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING.

NOTES BY SYMBOL

1. 4" SANITARY SEWER STACK DOWN FROM LEVEL ABOVE. CONTINUE TO BELOW.
2. 3" VENT STACK UP FROM BELOW. CONTINUE UP TO LEVEL ABOVE.
3. 3" VENT STACK UP TO LEVEL ABOVE.
4. 3" SANITARY SEWER STACK DOWN FROM LEVEL ABOVE. CONTINUE TO BELOW.
5. 3" VENT STACK UP FROM BELOW, CONTINUE PIPING VENT THROUGH PLUMBING CHASE.
6. 2" SANITARY SEWER DOWN FROM LEVEL ABOVE. CONTINUE TO LEVEL BELOW.
7. 6" ROOF DRAINS DOWN FROM LEVEL ABOVE. CONTINUE TO LEVEL BELOW.
8. 6" ROOF DRAINS DOWN FROM LEVEL ABOVE. PROVIDE CLEANOUTS ACCESSIBLE IN VERTICAL PIPING DROP. CONTINUE TO LEVEL BELOW.
9. 2" VENT UP TO LEVEL ABOVE.
10. 2" SANITARY SEWER DOWN FROM LEVEL ABOVE.
11. 2" SANITARY SEWER DOWN TO LEVEL BELOW.
12. 6" ROOF DRAIN DOWN FROM LEVEL ABOVE.

1 PLUMBING WASTE AND VENT PLAN - LEVEL 1
1/8" = 1'-0"

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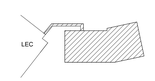
Key Plan



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Project No: 31.00154

Sheet Title

PLUMBING WASTE & VENT FLOOR PLAN - LEVEL 1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

P102

PLAN NOTES

1. REFER TO WASTE AND VENT RISER DIAGRAM FOR VISUAL REPRESENTATION.
2. CONTRACTOR SHALL FIELD COORDINATE ALL CONDITIONS WITH ALL DISCIPLINES AND ADJUST PIPING LAYOUT AS NECESSARY.
3. REFER TO GENERAL PLUMBING SCHEDULE FOR SANITARY SEWER AND VENT CONNECTION SIZES.
4. PROVIDE P-TRAPS FOR ALL PLUMBING FIXTURES AND DRAINS AS REQUIRED BY CODE.
5. PROVIDE P-TRAPS WITH CLEANOUT PLUGS FOR ALL SINK/LAVATORY FIXTURES.
6. ALL ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING SHALL BE INSULATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE WYE FITTINGS AND LONG RADIUS ELBOWS FOR ALL WASTE, ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING.

NOTES BY SYMBOL

1. 4" SANITARY SEWER STACK DOWN FROM LEVEL ABOVE. CONTINUE TO BELOW.
2. 3" VENT STACK UP FROM BELOW. CONTINUE UP TO LEVEL ABOVE.
3. 3" SANITARY SEWER STACK DOWN FROM LEVEL ABOVE. CONTINUE TO BELOW.
4. 6" ROOF DRAIN DOWN FROM ROOF. CONTINUE ROUTING PIPING THROUGH PLENUM.
5. 2" VENT STACK UP FROM BELOW. CONTINUE UP TO LEVEL ABOVE.
6. 6" ROOF DRAINS DOWN FROM LEVEL ABOVE. CONTINUE TO LEVEL BELOW.
7. 8" ROOF DRAINS DOWN TO LEVEL BELOW. PROVIDE CLEANOUTS ACCESSIBLE IN VERTICAL PIPING DROP.
8. 2" SANITARY SEWER DOWN TO LEVEL BELOW.
9. 2" VENT UP FROM BELOW.
10. 2" SANITARY SEWER DOWN FROM LEVEL ABOVE. CONTINUE TO LEVEL BELOW.
11. 4" ROOF DRAINS DOWN FROM ROOF. CONTINUE ROUTING THROUGH PLENUM.
12. 6" ROOF DRAINS DOWN TO LEVEL BELOW.

1 PLUMBING WASTE AND VENT PLAN - LEVEL 2
1/8" = 1'-0"

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717 North Harwood Street
Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

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100 Glass Street
Suite 201
Dallas, Texas 75207

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MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

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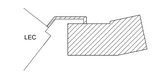
Dallas/Fort Worth, Texas
www.mepce.com
972-870-9060

PROJECT CODE
31.00154

Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

PLUMBING WASTE & VENT FLOOR PLAN - LEVEL 2

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

P103

PLAN NOTES

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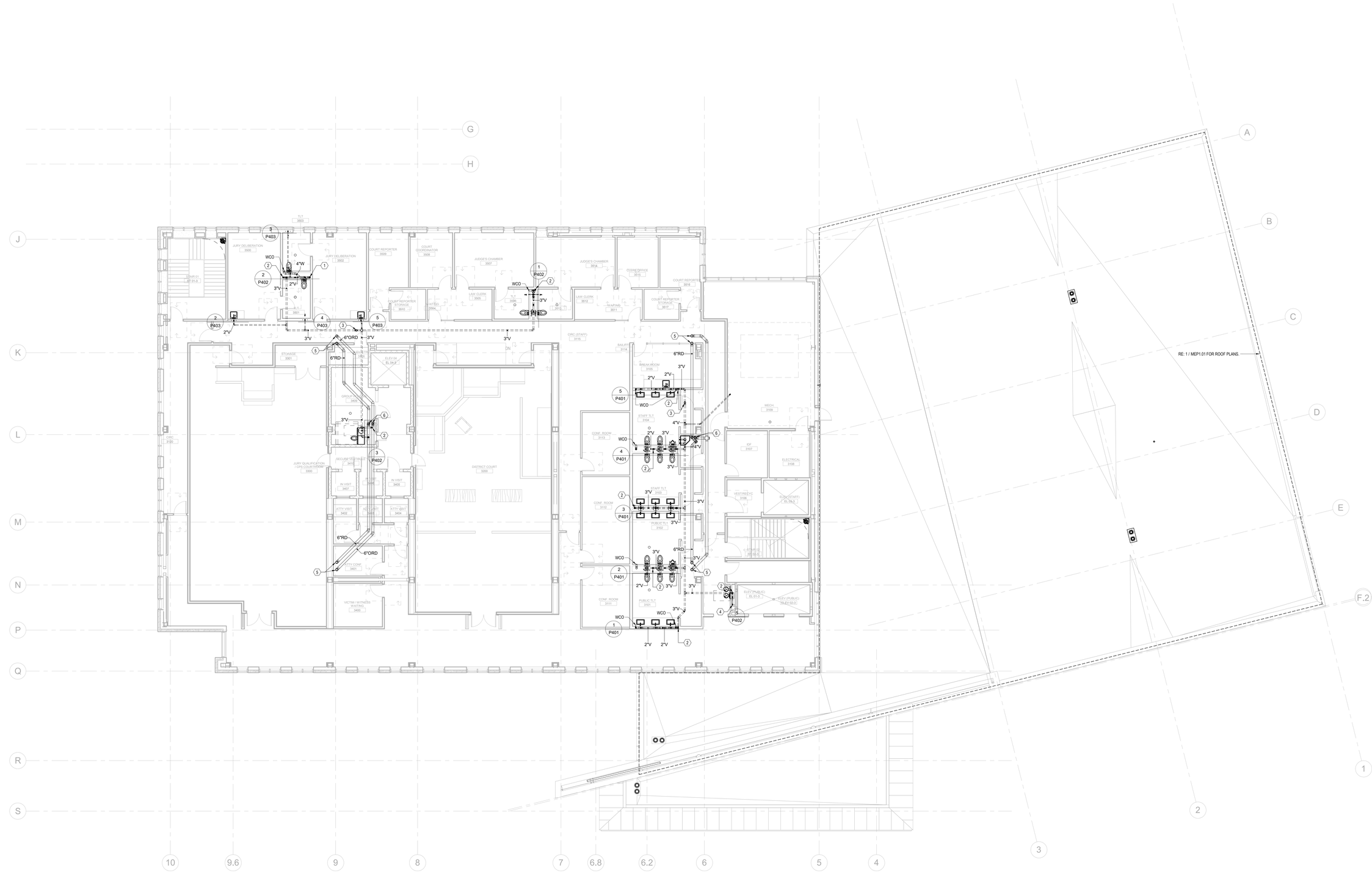
2. CONTRACTOR SHALL FIELD COORDINATE ALL CONDITIONS WITH ALL DISCIPLINES AND ADJUST PIPING LAYOUT AS NECESSARY.
3. REFER TO GENERAL PLUMBING SCHEDULE FOR SANITARY SEWER AND VENT CONNECTION SIZES.
4. PROVIDE P-TRAPS FOR ALL PLUMBING FIXTURES AND DRAINS AS REQUIRED BY CODE.
5. PROVIDE P-TRAPS WITH CLEANOUT PLUGS FOR ALL SINK/LAVATORY FIXTURES.
6. ALL ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING SHALL BE INSULATED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE WYE FITTINGS AND LONG RADIUS ELBOWS FOR ALL WASTE, ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPING.

NOTES BY SYMBOL

1. 4" SANITARY SEWER STACK DOWN TO LEVEL BELOW.
2. 3" VENT STACK UP FROM BELOW.
3. 4" VENT UP TO ROOF.
4. 2" SANITARY SEWER DOWN TO LEVEL BELOW.
5. 6" ROOF DRAINS DOWN FROM LEVEL ABOVE. CONTINUE TO ROUTE PIPING THROUGH PLENUM.
6. 6" ROOF DRAINS DOWN TO LEVEL BELOW. PROVIDE CLEANOUTS ACCESSIBLE IN VERTICAL PIPING DROP.



1 PLUMBING WASTE AND VENT PLAN - LEVEL 3
1/8" = 1'-0"

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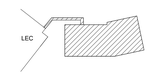
Key Plan



Professional Seals

ROBERT D. HEINE
135197
LICENSED
PROFESSIONAL ENGINEER
01-15-2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

PLUMBING WASTE & VENT FLOOR PLAN - LEVEL 3

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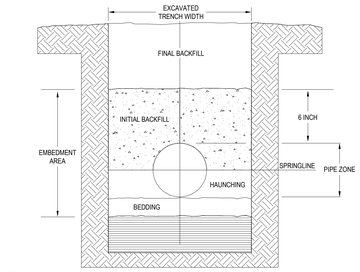
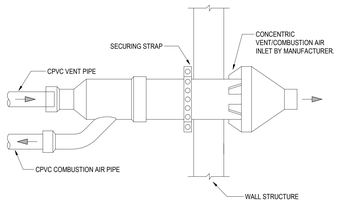
Sheet Number

P104

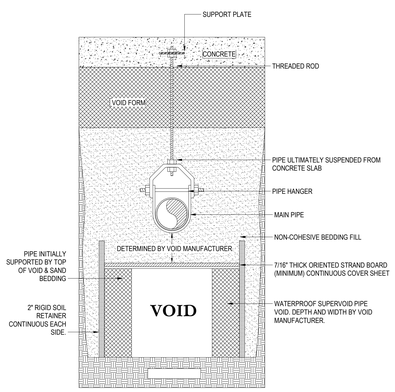


NOTES
1. PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. ASTM D231 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS. ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING. IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.
2. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OUTSIDE DIAMETER PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF EQUIPMENT USED TO COMPACT THE BACKFILL.
3. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE, AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
4. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
5. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
6. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT 1/10 OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
7. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

7 UNDERGROUND UNSTALLATION DETAIL OF PLASTIC PIPING SYSTEMS
NONE



8 SIDEWALL CONCENTRIC VENT
NONE

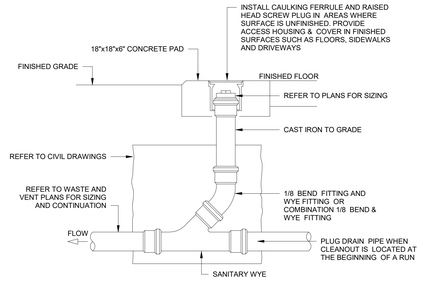


1. SYSTEM SHALL BE BY SUPERVOID OR APPROVED EQUAL.

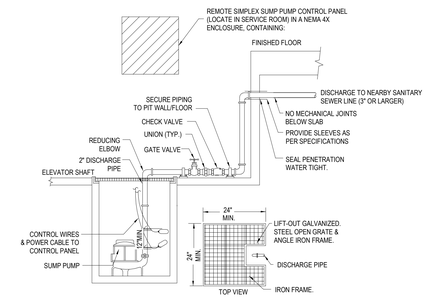
2. POTENTIAL VERTICAL RISE = 6" PER GEOTECHNICAL REPORT. MANUFACTURER SHALL REVIEW GEOTECHNICAL REPORT AND SELECT VOID SYSTEM TO COMPLY WITH POTENTIAL VERTICAL RISE AND ADDITIONAL PARAMETERS.

3. REFER TO MANUFACTURER INSTALLATION GUIDELINE.

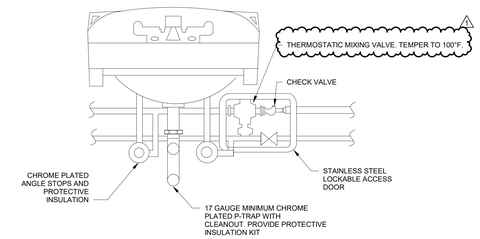
9 SUPERVOID PIPE HANGER SYSTEM
NONE



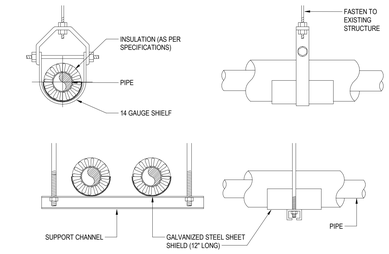
4 FLOOR CLEANOUT
NONE



5 ELEVATOR SUMP PUMP
NONE

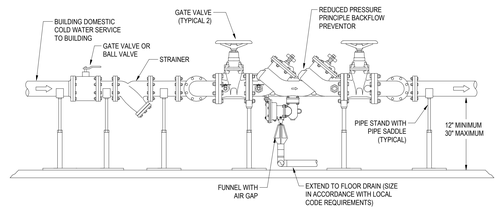


6 LAVATORY TEMPERING VALVE
NONE

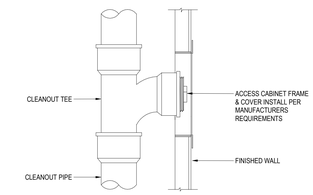


NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE.
2. VAPOR BARRIER SHALL BE CONTINUOUS AT ALL JOINTS.

1 PIPE HANGER SUPPORT
NONE



2 REDUCED PRESSURE ZONE BACKFLOW PREVENTOR
NONE



3 WALL CLEANOUT
NONE

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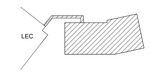
Key Plan



Professional Seals

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1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

PLUMBING DETAILS

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

P701

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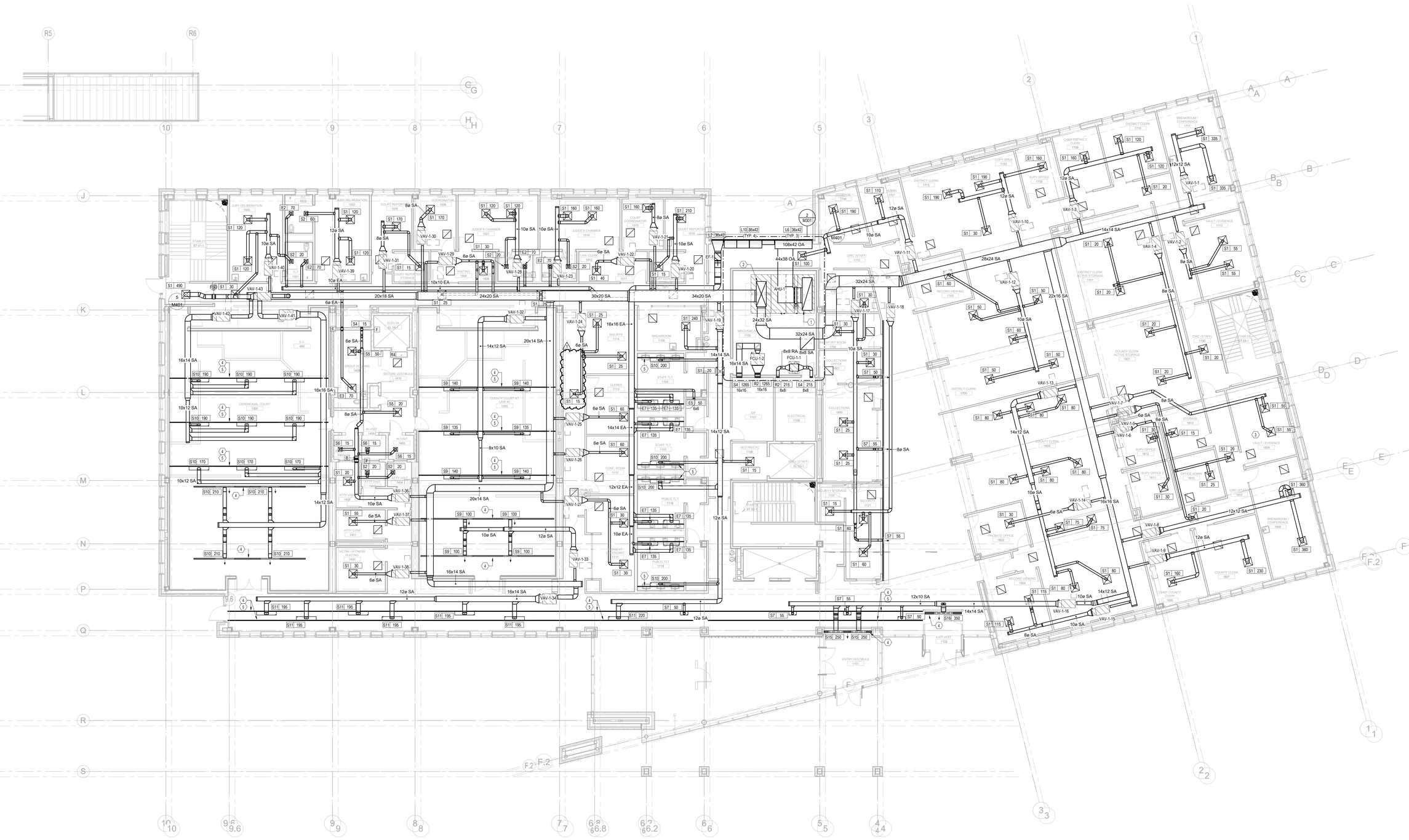

PLAN NOTES

1. PROVIDE ACOUSTICAL SEALANT AT ALL STC RATED WALL PENETRATIONS TO MITIGATE SOUND MIGRATION. REFER TO ARCHITECTURAL FOR LOCATION OF ALL STC RATED WALLS.
2. COORDINATE FINAL LOCATION OF ALL TEMPERATURE SENSORS, HUMIDISTATS, THERMOSTATS, AND CO2 SENSORS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. REFER TO PIPING PLANS FOR LOCATIONS.
3. PROVIDE MANUAL VOLUME BALANCE DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST GRILLE/DIFFUSER BRANCHES. UNLESS NOTED OTHERWISE.
4. ALL MITERED ELBOWS SHALL HAVE TURNING VANES.
5. PROVIDE CONCEALED DAMPER REGULATOR FOR ALL SUPPLY, RETURN, AND EXHAUST GRILLES/DIFFUSERS LOCATED IN AREAS WHERE ABOVE CEILING CANNOT BE ACCESSED.
6. PROVIDE INTERNALLY LINED DUCTWORK FOR ALL EXPOSED DUCTWORK IN FINISHED OCCUPIED SPACES. PAINT EXPOSED DUCTWORK AS SPECIFIED BY ARCHITECT.
7. PROVIDE ACCESS PANELS IN ALL INACCESSIBLE CEILINGS FOR HVAC EQUIPMENT.
8. COORDINATE DIFFUSER/GRILLE/EXHAUST FAN LOCATION WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
9. PROVIDE LONG RADIUS ELBOWS EVERYWHERE POSSIBLE. OTHERWISE, PROVIDE TURNING VANES IN ALL ELBOWS PER SMACNA STANDARDS.
10. PROVIDE LABELING ON ALL CEILINGS AND WALLS, INDICATING ANY DEVICES AND LOCATIONS REQUIRE SERVICE OR ACCESS ABOVE CEILINGS OR BEHIND WALLS - TERMINAL UNITS, MANUAL VOLUME BALANCE DAMPERS, FIRE/SMOKE DAMPERS, ETC.
11. COORDINATE ALL ABOVE CEILING INSTALLATIONS CLOSELY WITH PLUMBING, FIRE PROTECTION, FIRE ALARM, AND ELECTRICAL SUB-CONTRACTORS.
12. FOR DUCT RUNOUTS TO DIFFUSERS, SIZE ACCORDING TO NECK/INLET SIZE, UNLESS NOTED OTHERWISE.
13. REFER TO HVAC EQUIPMENT MANUFACTURER FOR EXACT REFRIGERANT LINE SET SIZING.
14. ABOVE FINISH FLOOR HEIGHTS REFER TO BOTTOM OF EQUIPMENT/DEVICE ETC.
15. DUCT INSULATION SHALL BE CONTINUOUS THROUGH WALLS/FLOORS ETC TO PREVENT CONDENSATION.
16. DIFFUSER SHALL BE COMPLETELY INSULATED TO PREVENT CONDENSATION.
17. REFER TO FPB/VAV BOX SCHEDULE FOR INLET SIZE.
18. COVER ALL RETURN AIR DUCTWORK OPENINGS WITH 1/4" GALVANIZED STEEL MESH (INCLUDING ALL TRANSFER OPENINGS).
19. PROVIDE RETURN AIR PATHWAYS FOR ALL TO DECK CONDITIONS.
20. ALL EQUIPMENT SHALL BE INSTALLED WITH MANUFACTURER RECOMMENDED CLEARANCES.
21. DIRECT SLOT DIFFUSER DISCHARGE AS SHOWN ON PLAN, UNLESS NOTED OTHERWISE. IF NO FLOW ARROW PROVIDED, DIRECT AIR STRAIGHT DOWN.
22. ALL 24"X24" RETURN AIR DEVICES SHOWN SHALL BE R1 AIR DEVICES UNLESS OTHERWISE NOTED. REFER TO AIR DEVICE SCHEDULE FOR MORE INFORMATION.

NOTES BY SYMBOL

1. FULL SIZE RETURN AIR UP FROM AIR HANDLING UNIT.
2. FULL SIZE SUPPLY AIR UP FROM AIR HANDLING UNIT.
3. PROVIDE INTERNALLY LINED DUCTWORK WITHIN THIS EXPOSED TO STRUCTURE SPACE.
4. ALL NON-DUCTED PORTIONS OF CONTINUOUS SLOT TO SERVE AS RETURN.
5. SIDEWALL COUNTINUOUS SLOT DIFFUSER TO THROW HORIZONTALLY.

1 MECHANICAL FLOOR PLAN - LEVEL 1

1/8" = 1'-0"

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Key Plan

Professional Seals

ROBERT D. HEINE
135197
01 - 15 - 2021
Robert Heine

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
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	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

MECHANICAL FLOOR
PLAN - LEVEL 1

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

M102

PLAN NOTES

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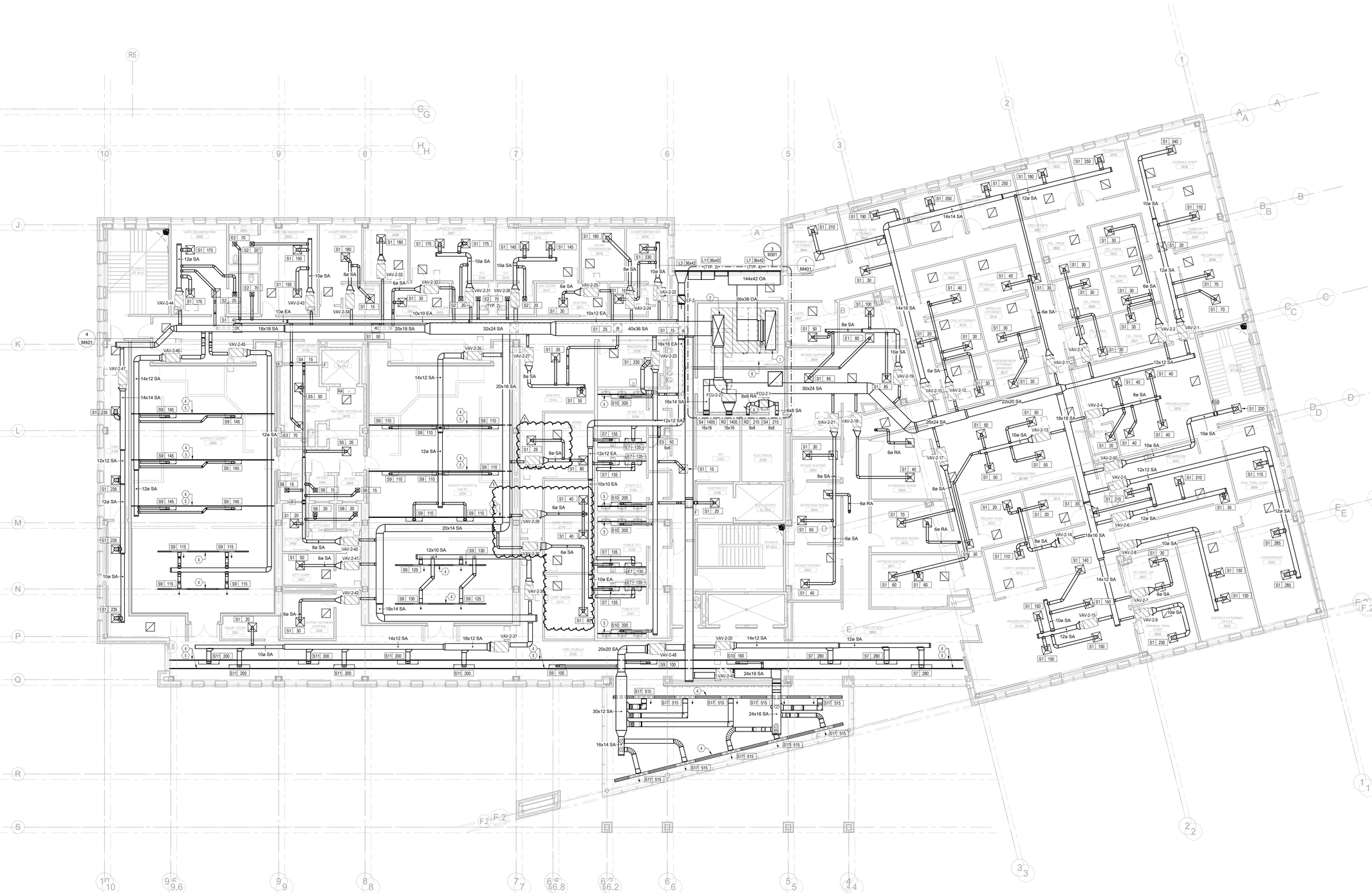

1 MECHANICAL FLOOR PLAN - LEVEL 2

1/8" = 1'-0"

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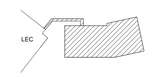
Key Plan



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Project No: 31.00154

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 2

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

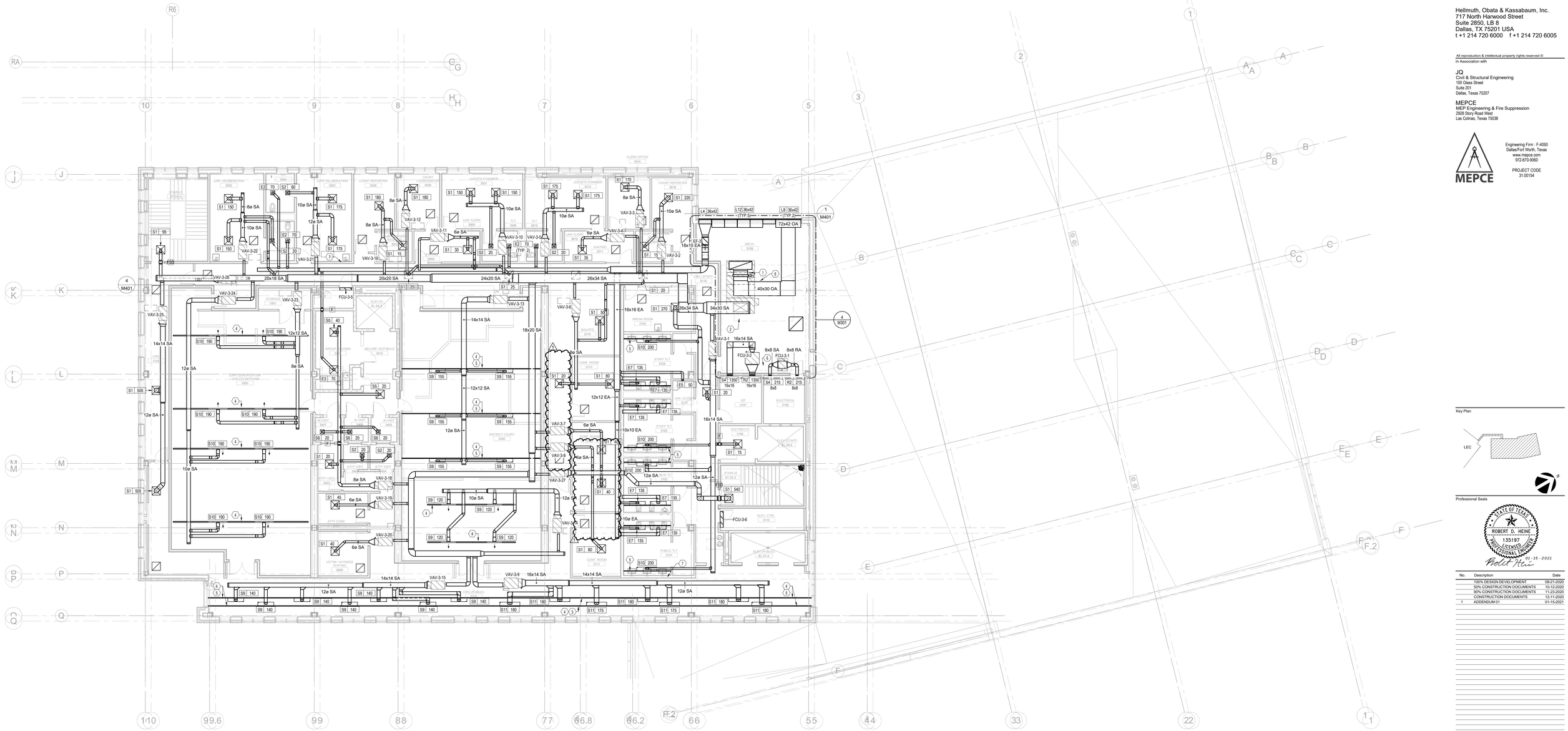
M103

PLAN NOTES

1. PROVIDE ACOUSTICAL SEALANT AT ALL STC RATED WALL PENETRATIONS TO MITIGATE SOUND MIGRATION. REFER TO ARCHITECTURAL FOR LOCATION OF ALL STC RATED WALLS.
2. COORDINATE FINAL LOCATION OF ALL TEMPERATURE SENSORS, HUMIDISTATS, THERMOSTATS, AND CO2 SENSORS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. REFER TO PIPING PLANS FOR LOCATIONS.
3. PROVIDE MANUAL VOLUME BALANCE DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST GRILLE/DIFFUSER BRANCHES. UNLESS NOTED OTHERWISE.
4. ALL MITERED ELBOWS SHALL HAVE TURNING VANES.
5. PROVIDE CONCEALED DAMPER REGULATOR FOR ALL SUPPLY, RETURN, AND EXHAUST GRILLES/DIFFUSERS LOCATED IN AREAS WHERE ABOVE CEILING CANNOT BE ACCESSED.
6. PROVIDE INTERNALLY LINED DUCTWORK FOR ALL EXPOSED DUCTWORK IN FINISHED OCCUPIED SPACES. PAINT EXPOSED DUCTWORK AS SPECIFIED BY ARCHITECT.
7. PROVIDE ACCESS PANELS IN ALL INACCESSIBLE CEILINGS FOR HVAC EQUIPMENT.
8. COORDINATE DIFFUSER/GRILLE/EXHAUST FAN LOCATION WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
9. PROVIDE LONG RADIUS ELBOWS EVERYWHERE POSSIBLE. OTHERWISE, PROVIDE TURNING VANES IN ALL ELBOWS PER SMACNA STANDARDS.
10. PROVIDE LABELING ON ALL CEILINGS AND WALLS, INDICATING ANY DEVICES AND LOCATIONS REQUIRE SERVICE OR ACCESS ABOVE CEILINGS OR BEHIND WALLS - TERMINAL UNITS, MANUAL VOLUME BALANCE DAMPERS, FIRE/SMOKE DAMPERS, ETC.
11. COORDINATE ALL ABOVE CEILING INSTALLATIONS CLOSELY WITH PLUMBING, FIRE PROTECTION, FIRE ALARM, AND ELECTRICAL SUB-CONTRACTORS.
12. FOR DUCT RUNOUTS TO DIFFUSERS, SIZE ACCORDING TO NECK/INLET SIZE, UNLESS NOTED OTHERWISE.
13. REFER TO HVAC EQUIPMENT MANUFACTURER FOR EXACT REFRIGERANT LINE SET SIZING.
14. ABOVE FINISH FLOOR HEIGHTS REFER TO BOTTOM OF EQUIPMENT/DEVICE ETC.
15. DUCT INSULATION SHALL BE CONTINUOUS THROUGH WALLS/FLOORS ETC TO PREVENT CONDENSATION.
16. DIFFUSER SHALL BE COMPLETELY INSULATED TO PREVENT CONDENSATION.
17. REFER TO FPB/VAV BOX SCHEDULE FOR INLET SIZE.
18. COVER ALL RETURN AIR DUCTWORK OPENINGS WITH 1/4" GALVANIZED STEEL MESH (INCLUDING ALL TRANSFER OPENINGS).
19. PROVIDE RETURN AIR PATHWAYS FOR ALL TO DECK CONDITIONS.
20. ALL EQUIPMENT SHALL BE INSTALLED WITH MANUFACTURER RECOMMENDED CLEARANCES.
21. DIRECT SLOT DIFFUSER DISCHARGE AS SHOWN ON PLAN, UNLESS NOTED OTHERWISE. IF NO FLOW ARROW PROVIDED, DIRECT AIR STRAIGHT DOWN.
22. ALL 24"X24" RETURN AIR DEVICES SHOWN SHALL BE R1 AIR DEVICES UNLESS OTHERWISE NOTED. REFER TO AIR DEVICE SCHEDULE FOR MORE INFORMATION.

NOTES BY SYMBOL

1. FULL SIZE RETURN AIR UP FROM AIR HANDLING UNIT.
2. FULL SIZE SUPPLY AIR UP FROM AIR HANDLING UNIT.
3. PROVIDE INTERNALLY LINED DUCTWORK WITHIN THIS EXPOSED TO STRUCTURE SPACE.
4. ALL NON-DUCTED PORTIONS OF CONTINUOUS SLOT TO SERVE AS RETURN.
5. SIDEWALL CONTINUOUS SLOT DIFFUSER TO THROW HORIZONTALLY.



1 MECHANICAL FLOOR PLAN - LEVEL 3
1/8" = 1'-0"

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717 North Harwood Street
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Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

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MEP Engineering & Fire Suppression
2928 Story Road West
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PROJECT CODE
31.00154

Key Plan

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Professional Seals

STATE OF TEXAS
ROBERT D. HEINE
135197
LICENSED
PROFESSIONAL ENGINEER
11 - 15 - 2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
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	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

MECHANICAL FLOOR PLAN - LEVEL 3

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

M104

PLAN NOTES

1. PROVIDE ACCESS PANELS IN ALL INACCESSIBLE CEILINGS FOR HVAC EQUIPMENT.
2. BRANCH CIRCUITS SERVING MORE THAN ONE VAV BOX ARE TO HAVE ISOLATION VALVES AT BRANCH TAPS.
3. ALL HYDRONIC PIPING TO BE COORDINATED IN ELEVATION WITH PLUMBING AND DUCTWORK AND OTHER SYSTEMS IN PLENUM SPACE. MAINTAIN FPB/VAV BOX MAINTENANCE ACCESS.
4. HOT WATER RUNOUTS TO VAV BOXES SHALL BE SIZED ACCORDING TO VAV BOX SCHEDULE-MASTER.
5. PROVIDE SHUTOFF VALVES AT RISER TAPS TO EACH FLOOR.
6. COORDINATE FINAL LOCATION OF ALL TEMPERATURE SENSORS, HUMIDISTATS, THERMOSTATS, AND CO2 SENSORS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
7. SYMBOL DENOTES 'RB' DENOTES RETURN AIR BOOT. REFER TO RETURN AIR BOOT DETAIL AND SCHEDULE FOR ADDITIONAL INFORMATION.
8. INSULATED PIPING SHALL BE CONTINUOUS THROUGH WALLS/FLOORS ETC TO PREVENT CONDENSATION. ALL INSULATED PIPING PENETRATIONS SHALL BE SLEEVED.
9. REFER TO COIL DETAILS FOR ADDITIONAL INFORMATION. TYPICAL OF ALL COILS. COILS SHALL BE PROVIDED WTH TWO WAY VALVES UNLESS NOTED OTHERWISE ON PLANS.
10. ALL CONTROL CABLING TO BE SECURED INDEPENDANTLY FROM ALL OTHER CABLING. CONTROL CABLING TO BE IN CONDUIT IN ALL INACCESSIBLE CEILING SPACES AND DOWN WALLS.

NOTES BY SYMBOL

1. CHILLED WATER SUPPLY AND RETURN DOWN TO BELOW PAVEMENT.
2. CHILLED WATER SUPPLY AND RETURN UP THROUGH SLAB. PROVIDE MODULAR SLEEVE SEAL AT FLOOR PENETRATION.
3. PROVIDE THREE WAY VALVE WITH BYPASS AT THIS LOCATION.
4. CONDENSATE PIPING DOWN TO FLOOR DRAIN.
5. CONDENSATE PIPING DOWN TO LAVATORY TAIL PIPE.
6. OVERFLOW CONDENSATE PIPING DOWN TO FLOOR DRAIN.

A. PROVIDE TERMINAL UNIT WITH SCHEDULE CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE TO MINIMUM WHEN UNOCCUPIED AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

B. PROVIDE TERMINAL UNIT WITH OCCUPANCY SENSOR CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE TO MINIMUM WHEN UNOCCUPIED AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

1 MECHANICAL PIPING PLAN - GROUND LEVEL
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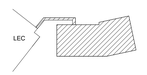

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1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

MECHANICAL PIPING PLAN - GROUND LEVEL

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

M201

PLAN NOTES

1. PROVIDE ACCESS PANELS IN ALL INACCESSIBLE CEILINGS FOR HVAC EQUIPMENT.
2. BRANCH CIRCUITS SERVING MORE THAN ONE VAV BOX ARE TO HAVE ISOLATION VALVES AT BRANCH TAPS.
3. ALL HYDRONIC PIPING TO BE COORDINATED IN ELEVATION WITH PLUMBING AND DUCTWORK AND OTHER SYSTEMS IN PLENUM SPACE. MAINTAIN FPB/VAV BOX MAINTENANCE ACCESS.
4. HOT WATER RUNOUTS TO VAV BOXES SHALL BE SIZED ACCORDING TO VAV BOX SCHEDULE-MASTER.
5. PROVIDE SHUTOFF VALVES AT RISER TAPS TO EACH FLOOR.
6. COORDINATE FINAL LOCATION OF ALL TEMPERATURE SENSORS, HUMIDISTATS, THERMOSTATS, AND CO2 SENSORS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
7. SYMBOL DENOTES 'RB' DENOTES RETURN AIR BOOT. REFER TO RETURN AIR BOOT DETAIL AND SCHEDULE FOR ADDITIONAL INFORMATION.
8. INSULATED PIPING SHALL BE CONTINUOUS THROUGH WALLS/FLOORS ETC TO PREVENT CONDENSATION. ALL INSULATED PIPING PENETRATIONS SHALL BE SLEEVED.
9. REFER TO COIL DETAILS FOR ADDITIONAL INFORMATION. TYPICAL OF ALL COILS. COILS SHALL BE PROVIDED WITH TWO WAY VALVES UNLESS NOTED OTHERWISE ON PLANS.
10. ALL CONTROL CABLING TO BE SECURED INDEPENDANTLY FROM ALL OTHER CABLING. CONTROL CABLING TO BE IN CONDUIT IN ALL INACCESSIBLE CEILING SPACES AND DOWN WALLS.

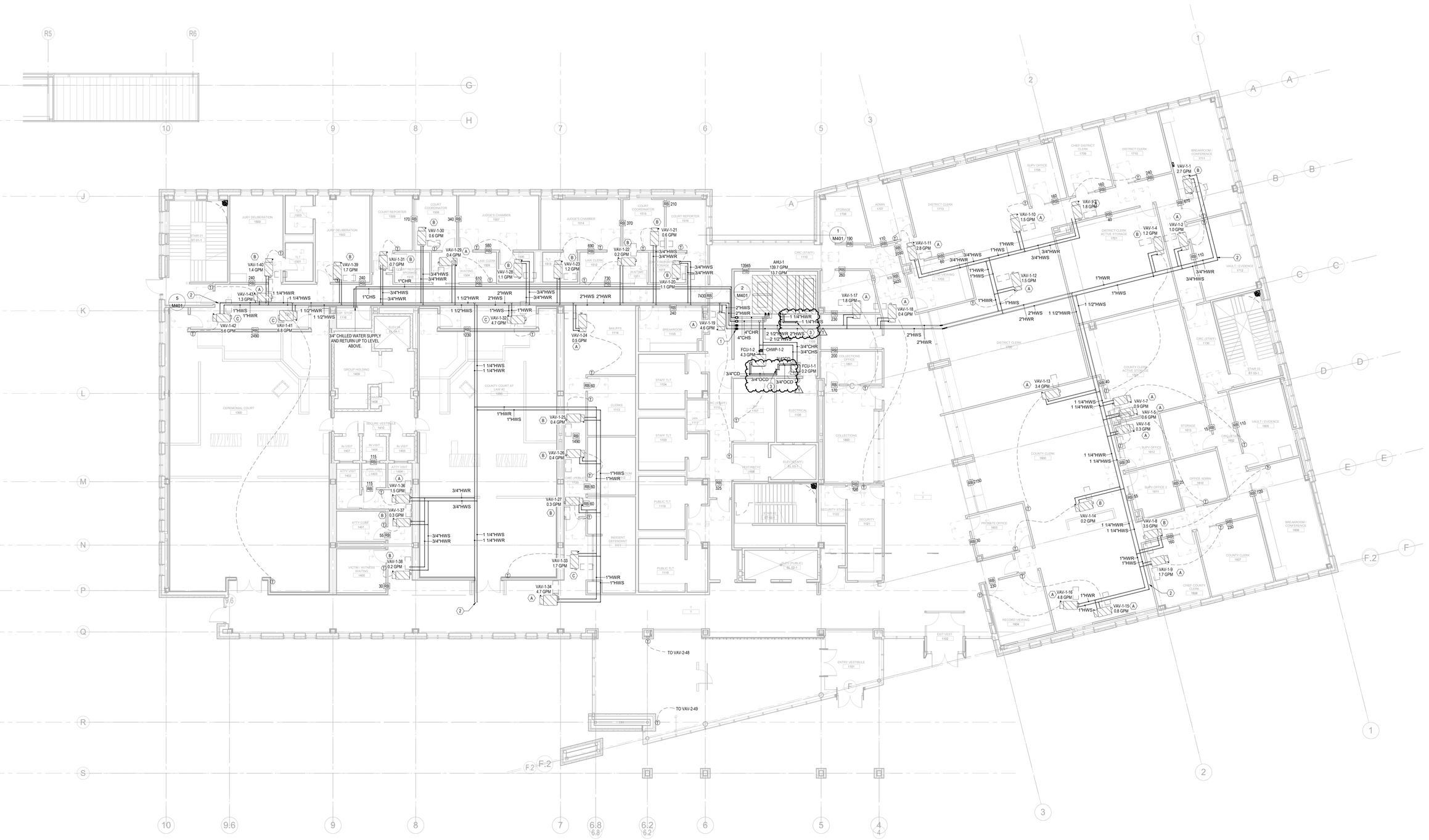
NOTES BY SYMBOL

1. 4"CWS, 4"CWR, 4"HWS, AND 4"HWR UP FROM LEVEL BELOW. CONTINUE UP TO LEVEL ABOVE.
2. PROVIDE THREE WAY VALVE WITH BYPASS AT THIS LOCATION.
3. CONDENSATE AND OVERFLOW CONDENSATE PIPING DOWN TO FLOOR DRAIN.
4. CONDENSATE PIPING DOWN TO LAVATORY TAIL PIPE.

A. PROVIDE TERMINAL UNIT WITH SCHEDULE CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE TO MINIMUM WHEN UNOCCUPIED AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

B. PROVIDE TERMINAL UNIT WITH OCCUPANCY SENSOR CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE TO MINIMUM WHEN UNOCCUPIED AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

C. PROVIDE TERMINAL UNIT WITH CO2 SENSOR CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE DEPENDENT ON CO2 PPM AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.



1 MECHANICAL PIPING PLAN - LEVEL 1
1/8" = 1'-0"

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717 North Harwood Street
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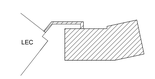

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	90% CONSTRUCTION DOCUMENTS	11-23-2020
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1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

MECHANICAL PIPING PLAN - LEVEL1

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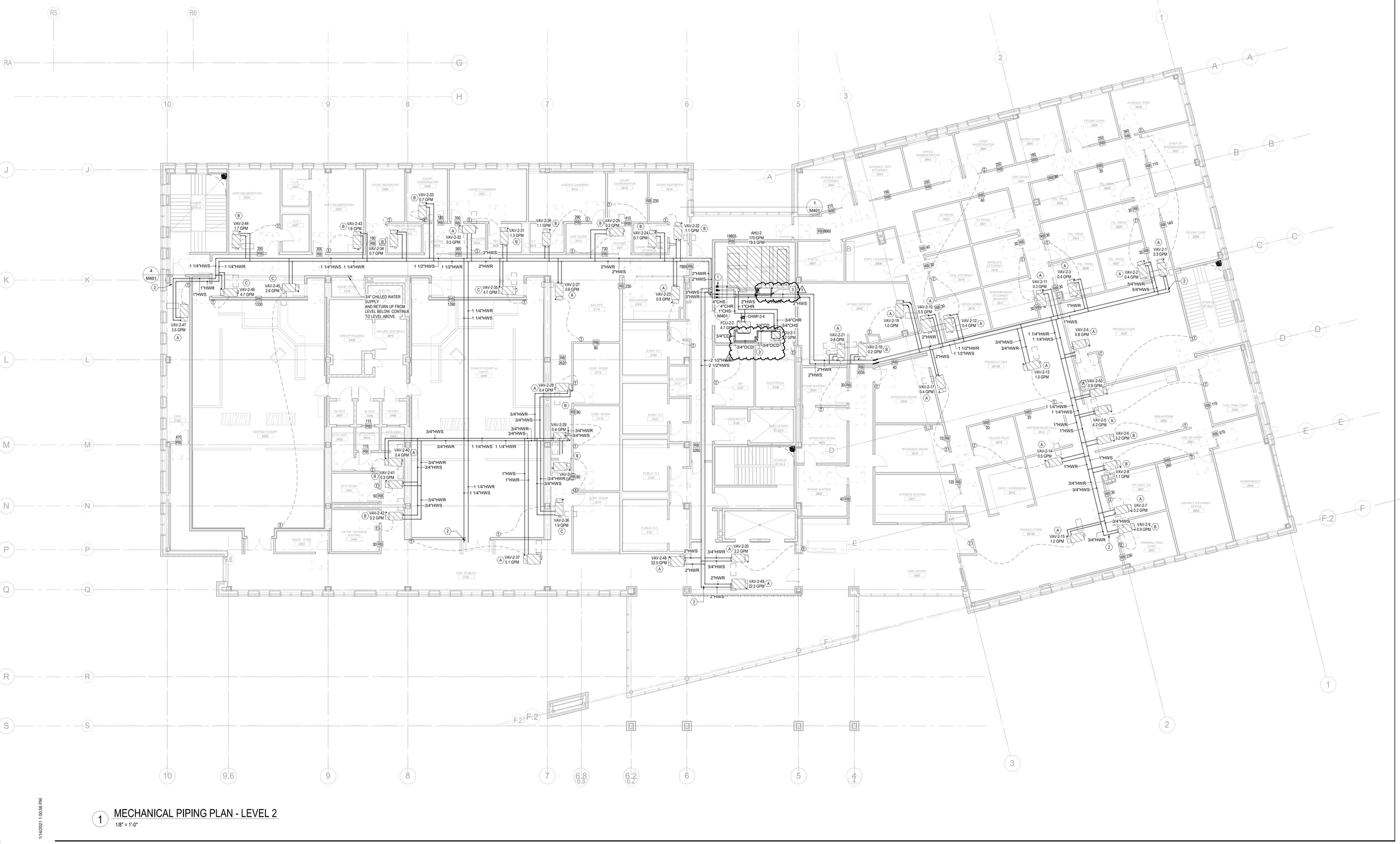
Sheet Number

M202



PLAN NOTES

1. PROVIDE ACCESS PANELS IN ALL INACCESSIBLE CEILINGS FOR HVAC EQUIPMENT.
2. BRANCH CIRCUITS SERVING MORE THAN ONE VAV BOX ARE TO HAVE ISOLATION VALVES AT BRANCH TAPS.
3. ALL HYDRONIC PIPING TO BE COORDINATED IN ELEVATION WITH PLUMBING AND DUCTWORK AND OTHER SYSTEMS IN PLENUM SPACE. MAINTAIN FPB/VAV BOX MAINTENANCE ACCESS.
4. HOT WATER RUNOUTS TO VAV BOXES SHALL BE SIZED ACCORDING TO VAV BOX SCHEDULE-MASTER.
5. PROVIDE SHUTOFF VALVES AT RISER TAPS TO EACH FLOOR.
6. COORDINATE FINAL LOCATION OF ALL TEMPERATURE SENSORS, HUMIDISTATS, THERMOSTATS, AND CO2 SENSORS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
7. SYMBOL DENOTES 'RB' DENOTES RETURN AIR BOOT. REFER TO RETURN AIR BOOT DETAIL AND SCHEDULE FOR ADDITIONAL INFORMATION.
8. INSULATED PIPING SHALL BE CONTINUOUS THROUGH WALLS/FLOORS ETC TO PREVENT CONDENSATION. ALL INSULATED PIPING PENETRATIONS SHALL BE SLEEVED.
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10. ALL CONTROL CABLING TO BE SECURED INDEPENDANTLY FROM ALL OTHER CABLING. CONTROL CABLING TO BE IN CONDUIT IN ALL INACCESSIBLE CEILING SPACES AND DOWN WALLS.

NOTES BY SYMBOL

1. 4"CWS, 4"CWR, 3"HWS, AND 3"HWR UP FROM LEVEL BELOW. CONTINUE 2"CWS, 2"CWR, 2-1/2"HWS, AND 2-1/2"HWR UP TO LEVEL ABOVE.
2. PROVIDE THREE WAY VALVE WITH BYPASS AT THIS LOCATION.
3. CONDENSATE AND OVERFLOW CONDENSATE PIPING DOWN TO FLOOR DRAIN.
4. CONDENSATE PIPING DOWN TO LAVATORY TAIL PIPE.

A. PROVIDE TERMINAL UNIT WITH SCHEDULE CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE TO MINIMUM WHEN UNOCCUPIED AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

B. PROVIDE TERMINAL UNIT WITH OCCUPANCY SENSOR CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE TO MINIMUM WHEN UNOCCUPIED AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

C. PROVIDE TERMINAL UNIT WITH CO2 SENSOR CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE DEPENDENT ON CO2 PPM AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

1 MECHANICAL PIPING PLAN - LEVEL 2

1/8" = 1'-0"

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ROBERT D. HEINE
135197
01 - 15 - 2021

Rolt Hein

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	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

MECHANICAL PIPING
PLAN - LEVEL 2

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Sheet Number

M203

PLAN NOTES

1. PROVIDE ACCESS PANELS IN ALL INACCESSIBLE CEILINGS FOR HVAC EQUIPMENT.
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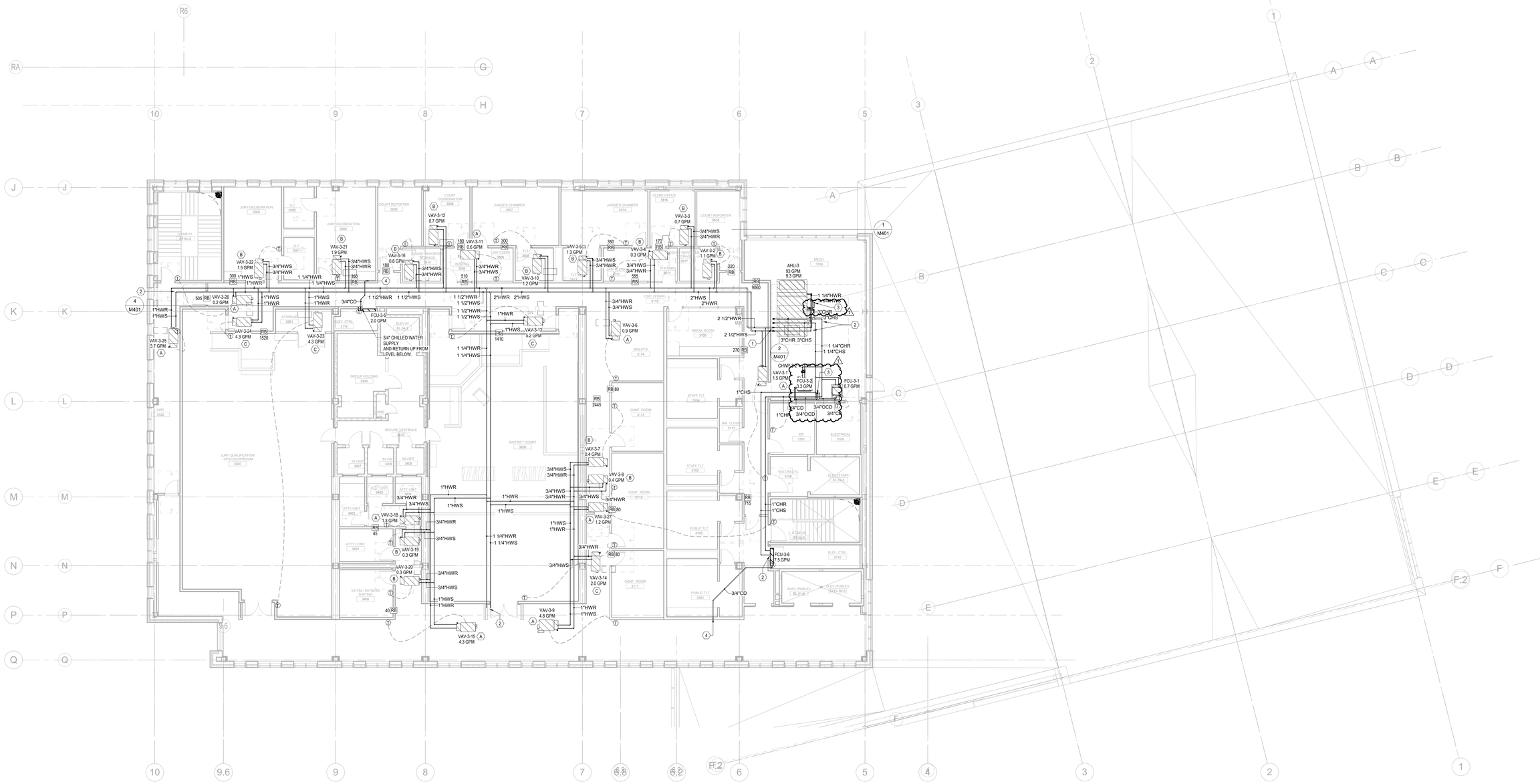
NOTES BY SYMBOL

1. 3"CWS, 3"CWR, 2"HWS, AND 2"HWR UP FROM LEVEL BELOW.
2. PROVIDE THREE WAY VALVE WITH BYPASS AT THIS LOCATION.
3. CONDENSATE AND OVERFLOW CONDENSATE PIPING DOWN TO FLOOR DRAIN.
4. CONDENSATE PIPING DOWN TO LAVATORY TAIL PIPE.

A. PROVIDE TERMINAL UNIT WITH SCHEDULE CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE TO MINIMUM WHEN UNOCCUPIED AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

B. PROVIDE TERMINAL UNIT WITH OCCUPANCY SENSOR CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE TO MINIMUM WHEN UNOCCUPIED AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.

C. PROVIDE TERMINAL UNIT WITH CO2 SENSOR CONTROLS TO CONTROL OCCUPIED AND UNOCCUPIED OPERATION. OUTSIDE AIR SHALL MODULATE DEPENDENT ON CO2 PPM AND COMMUNICATE WITH BUILDING MANAGEMENT SYSTEM.



1 MECHANICAL PIPING PLAN - LEVEL 3
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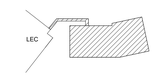

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PROFESSIONAL ENGINEER
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Project No: 31.00154

Sheet Title

MECHANICAL PIPING PLAN - LEVEL 3

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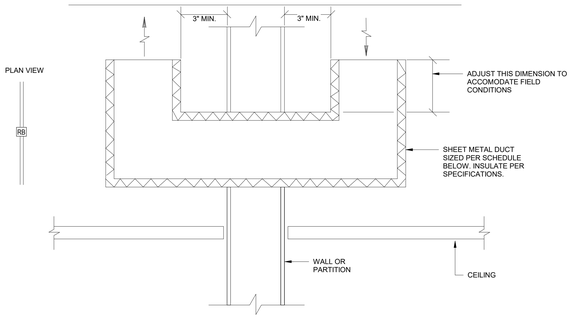
Sheet Number

M204



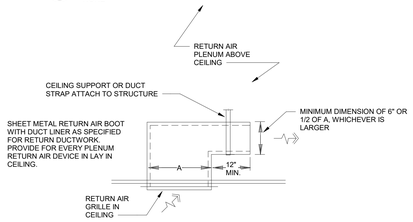
RETURN BOOT SCHEDULE

1. EVERY ROOM WITH ALL WALLS TO DECK AND DENOTED 'RB' ON FLOOR PLANS RECEIVES AN RETURN AIR BOOT PROPERLY SIZED FROM THE SCHEDULE BELOW.
2. A PATHWAY WHICH REQUIRES MORE THAN THE MAXIMUM CFM PER THE SCHEDULE WILL RECEIVE MULTIPLE AIR TRANSFER BOOTS UNTIL DESIRED CFM RANGE IS ACQUIRED (UNLESS OTHERWISE NOTED ON PLANS).
3. WHEN AN RETURN AIR BOOT IS PLACED IN A RATED WALL THE CORRESPONDING DAMPER FOR THAT PARTICULAR WALL SHALL BE INSTALLED IN THE RETURN AIR BOOT.
4. IF SPACE CONDITIONS ARE NOT ADEQUATE FOR MULTIPLE RETURN AIR BOOTS THAN SIZE THE RETURN AIR BOOTS FOR NO MORE THAN 500 FPM. REFER TO DETAIL ABOVE.

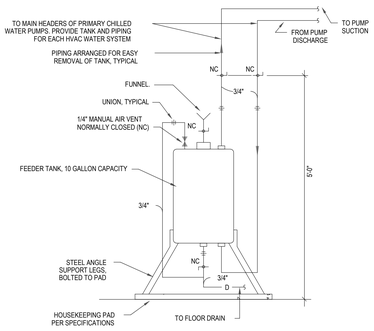
CFM RANGE	TRANSFER DUCT SIZE	
	RECTANGULAR	ROUND
0 TO 260	10" x 10"	12"Ø
261 TO 320	12" x 12"	14"Ø
321 TO 440	14" x 14"	16"Ø
441 TO 580	16" x 16"	18"Ø
581 TO 800	16" x 20"	20"Ø

13 RETURN AIR BOOT DETAIL AND SCHEDULE
NONE

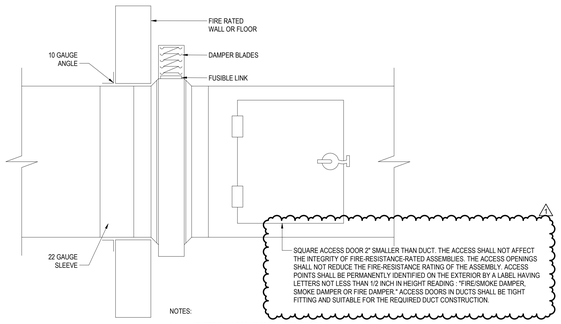
14 LINEAR SLOT DIFFUSER
NONE



15 RETURN AIR GRILLE HALF BOOT
NONE

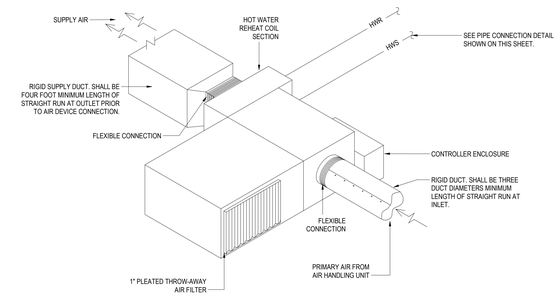


16 CHEMICAL POT FEEDER
NONE

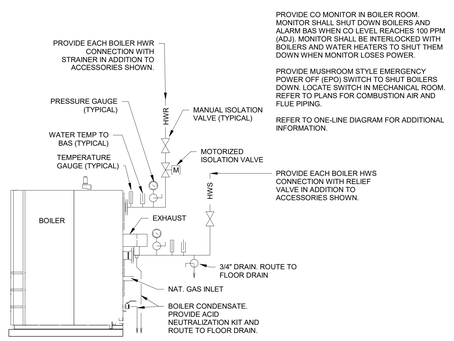


NOTES:
1. RATED BY UNDERWRITERS LABORATORIES.
2. FIRE DAMPERS SHALL BE INSTALLED AT EACH DUCT PENETRATION OF A RATED WALL OR SHAFT. COORDINATE EXACT LOCATION WITH ARCHITECTURE.

10 FIRE DAMPER
NONE



9 FAN POWERED BOX
NONE

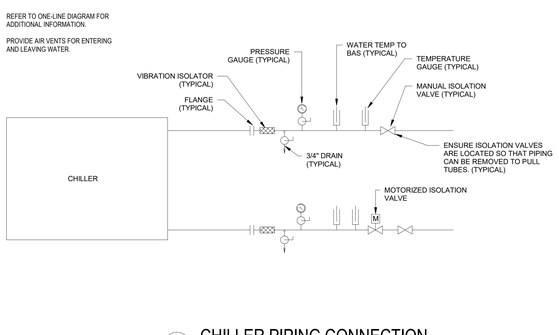


PROVIDE CO MONITOR IN BOILER ROOM. MONITOR SHALL SHUT DOWN BOILERS AND ALARM BAS WHEN CO LEVEL REACHES 100 PPM (ADJ). MONITOR SHALL BE INTERLOCKED WITH BOILERS AND WATER HEATERS TO SHUT THEM DOWN WHEN MONITOR LOSES POWER.

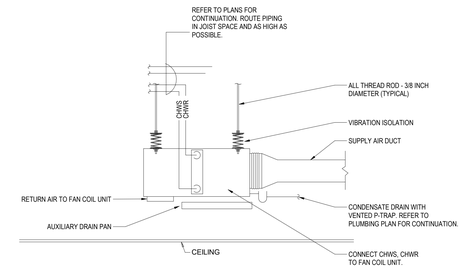
PROVIDE MUSHROOM STYLE EMERGENCY POWER OFF (EPO) SWITCH TO SHUT BOILERS DOWN. LOCATE SWITCH IN MECHANICAL ROOM. REFER TO PLANS FOR COMBUSTION AIR AND FLUE PIPING.

REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

11 BOILER PIPING CONNECTION
NONE

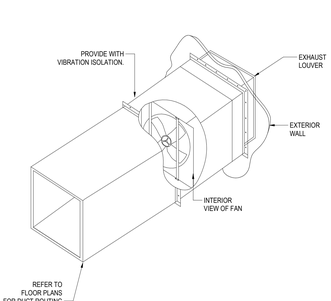


12 CHILLER PIPING CONNECTION
NONE

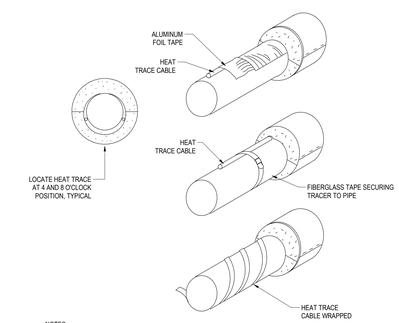


NOTES:
1. SEE EQUIPMENT SCHEDULES FOR SIZES, TYPE OF UNIT, ETC.
2. SEE FLOOR PLANS FOR COIL PIPE CONNECTIONS AND SIZES.
3. PROVIDE AND INSTALL CONDENSATE FLOAT SWITCH IN AUXILIARY DRAIN PAN. UPON DETECTION OF CONDENSATE THE FLOAT SWITH SHALL DE-ENERGIZE THE UNIT.
4. EQUIP UNIT WITH FILTERED RETURN GRILLE (FOR NON-DUCTED APPLICATION).

5 CHILLED WATER FAN COIL UNIT
NONE

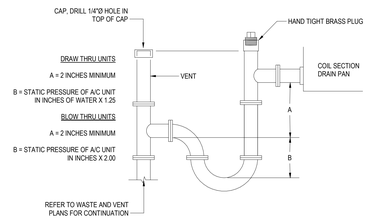


6 INLINE EXHAUST FAN
NONE

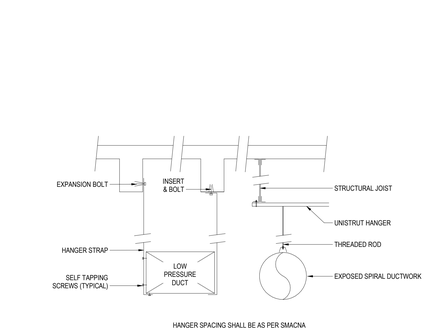


NOTES:
1. SECURE HEAT TRACE CABLE TO PIPE PER MANUFACTURER'S INSTRUCTIONS.
2. INSULATION AND JACKETING FOR INDOOR OR OUTDOOR APPLICATION AS REQUIRED.
3. REFER TO SECTION 23 TO PIPE PER MANUFACTURER'S INSTRUCTIONS.

7 HEAT TRACE
NONE

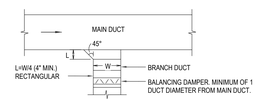


8 CONDENSATE P-TRAP
NONE

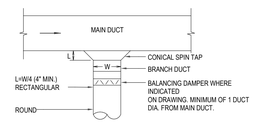


HANGER SPACING SHALL BE AS PER SMACNA

1 DUCT HANGER
NONE

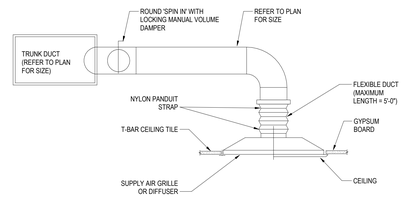


USE ONLY AT LAST TAKEOFF BEFORE OUTLETS & THEN ONLY WHERE RECTANGULAR RUNOUTS ARE INDICATED ON DRAWINGS.

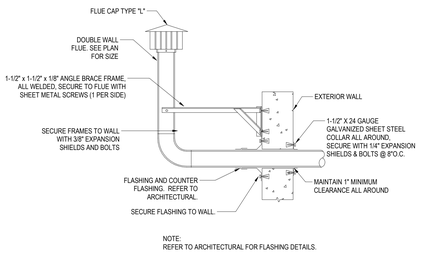


USE ONLY AT LAST TAKEOFF BEFORE OUTLETS & THEN ONLY WHERE ROUND RUNOUTS ARE INDICATED ON DRAWINGS.

2 DUCTWORK TAKEOFFS
NONE



3 CEILING DIFFUSER CONNECTION
NONE



NOTE:
REFER TO ARCHITECTURAL FOR FLASHING DETAILS.

4 FLUE THROUGH WALL
NONE

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Suite 2850, LB 8
Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

JQ
Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

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2928 Story Road West
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Key Plan

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No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
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	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

MECHANICAL DETAILS

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Sheet Number

M701

ABBREVIATIONS

A	AMPERE
ACT	ABOVE COUNTER TOP
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CURRENT
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
C	CONDUIT
G, GND	GROUND
GFI	GROUND FAULT INTERRUPTER
KVA	KILOVOLT-AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NONFUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
P	POLE
PH	PHASE
ST	SHUNT TRIP
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC.
V	VOLT
VA	VOLT-AMPERE
W	WATT
WP	WEATHER PROOF

WIRING DEVICE MOUNTING

MOUNTING HEIGHTS - UNLESS NOTED OTHERWISE ON PLANS

SWITCHES	48" AFF TO TOP OF SWITCH	
RECEPTACLES	FINISHED AREAS:	18" AFF TO BOTTOM OF RECEPTACLE
	UNFINISHED AREAS:	48" AFF TO TOP OF RECEPTACLE
	WATER COOLERS:	DIRECTLY BEHIND COOLER
	ABOVE COUNTER:	6" ABOVE COUNTER OR BACKSPLASH
DATA/TELEPHONE	FINISHED AREAS:	18" AFF TO BOTTOM OF OUTLET
	UNFINISHED AREAS:	48" AFF TO TOP OF OUTLET
	ABOVE COUNTER:	6" ABOVE COUNTER OR BACKSPLASH
	WALL MOUNTED:	48" AFF TO TOP OF OUTLET

RECEPTACLE MODIFIERS

48	MOUNT +48" ABOVE FINISHED FLOOR.
60	MOUNT +60" ABOVE FINISHED FLOOR.
72	MOUNT +72" ABOVE FINISHED FLOOR.
A	MOUNT +6" ABOVE COUNTER TOP.
B	MOUNT 6" BELOW COUNTER TOP.
C	MOUNT ON CEILING.
D	DISPOSAL - MOUNT INSIDE CABINET IN SPACE BENEATH SINK. PROVIDE SWITCH TO CONTROL DISPOSAL. MOUNT SWITCH ON WALL OF UNDER-SINK CABINET.
DR	DRYER - PROVIDE NEMA 14-30R RECEPTACLE.
DW	DISHWASHER - MOUNT INSIDE CABINET IN SPACE BENEATH SINK PROVIDE 2" DIAMETER HOLE IN WALL BETWEEN UNDER-SINK SPACE AND DISHWASHER SPACE TO FEED DISHWASHER CORD.
E	EXISTING TO REMAIN.
IG	ISOLATED GROUND.
M	MICROWAVE - MOUNT +6" ABOVE COUNTER TOP.
R	REFRIGERATOR - MOUNT +48" ABOVE FINISH FLOOR.
RE	RANGE: ELECTRIC - PROVIDE NEMA 14-50R RECEPTACLE AND DEDICATED 50 AMP GFCI RATED BREAKER.
RF	ROOF - RECEPTACLE IS LOCATED ON ROOF. PROVIDE WEATHERPROOF PROTECTIVE BOX.
RG	RANGE: GAS - PROVIDE GFCI RATED NEMA 5-15R RECEPTACLE AND DEDICATED 20 AMP BREAKER.
RU	REFRIGERATOR - MOUNT UNDER COUNTER.
TP	TAMPER PROOF.
TV	TV - MOUNT AT +72" AFF. PROVIDE RECESSED RECEPTACLE EQUAL TO HUBBELL RR1514.
W	WASHER.
WP	WEATHERPROOF - PROVIDE WEATHERPROOF PROTECTIVE BOX.

NOTES: NOT ALL OF THE RECEPTACLE TYPES ON THIS LIST ARE USED IN THIS PROJECT.

ELECTRICAL LEGEND

LIGHT FIXTURES

- X — ILLUMINATED EXIT SIGN ("X" = FIXTURE TYPE PER LIGHTING SCHEDULE)

RECEPTACLES

- DUPLEX RECEPTACLE
- QUADPLEX RECEPTACLE
- SPECIAL RATED RECEPTACLE
- G.F.I. RECEPTACLE

LIGHTING CONTROL DEVICES

- $ — SINGLE WAY SWITCH
- $3 — THREE WAY SWITCH
- $D — DIMMER SWITCH
- $OS — OCCUPANCY SENSING SWITCH
- OS — CEILING OCCUPANCY SENSOR

POWER DEVICES

- J — JUNCTION BOX
- DISCONNECT SAFETY SWITCH
- SPD — SURGE PROTECTIVE DEVICE

PANELBOARDS / TRANSFORMERS

- PANELBOARD
- T — TRANSFORMER

ELECTRICAL WIRING

- BRANCH CIRCUIT WIRING (REFER TO PLANS FOR ROUTING)
- XX-## — CIRCUIT HOME RUN ("XX" = PANEL DESIGNATION; "##" = BRANCH CIRCUIT NUMBER)

1

FIRE ALARM DEVICES

- P — FIRE ALARM PULL STATION
- S — SMOKE DETECTOR
- CEILING STROBE
- CEILING SPEAKER/STROBE

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK IS REQUIRED TO BE PERFORMED BY A CERTIFIED ELECTRICAL CONTRACTOR. ALL WIRING, EQUIPMENT, DEVICES AND INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES.
2. PROVIDE ALL WIRING, CONDUIT, LABOR AND MATERIALS NOT SHOWN ON PLAN, BUT NECESSARY FOR COMPLETE AND PROPER OPERATION OF THE ELECTRICAL SYSTEM.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND PERMITS AS NECESSARY TO COMPLETE THIS JOB. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO ENSURE A COMPLETE WORKING SYSTEM.
4. ALL ELECTRICAL WORK MUST COMPLY WITH THE REQUIREMENTS OF NFPA 70 (NATIONAL ELECTRICAL CODE), NFPA 70B, NFPA 70E, IECC, AND OSHA STANDARDS, IN ADDITION TO OTHER REFERENCES REQUIRED BY CONTRACT.
5. INSTALLATION OF SWITCHES, OUTLETS AND CONTROL DEVICES SHALL COMPLY WITH LOCAL CODES AND STATE ADA (TAS) REQUIREMENTS.
6. REFER TO MECHANICAL AND PLUMBING SHEETS FOR EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO CONNECT ELECTRICAL POWER TO ALL MECHANICAL AND PLUMBING EQUIPMENT.
7. ALL ELECTRICAL EQUIPMENT, DEVICES AND CIRCUITS SHALL CONTAIN A GROUNDING CONDUCTOR. CONDUIT SYSTEM SHALL NOT BE USED AS GROUNDING NETWORK. ALL GROUNDING SHALL BE IN STRICT COMPLIANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
8. ALL PANELBOARDS, TRANSFORMERS, DISCONNECT SWITCHES AND OTHER ELECTRICAL DEVICES AND EQUIPMENT SHALL HAVE ENGRAVED NAMEPLATES INDICATING EQUIPMENT IDENTIFICATION TAG AND VOLTAGE, AS WELL AS WHERE DEVICE IS FED FROM. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE TYPED DIRECTORIES INDICATING DISTRIBUTION AND BRANCH CIRCUIT FEEDERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. CONTRACTOR IS RESPONSIBLE FOR NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES AROUND AND ABOVE ALL ELECTRICAL EQUIPMENT AND DEVICES.
10. SHORT CIRCUIT AMPERE INTERRUPTING CAPACITY (A.I.C.) RATING OF ALL ELECTRICAL PRODUCTS SHALL BE GREATER THAN THE MAXIMUM AVAILABLE SHORT CIRCUIT CURRENT. PROVIDE NAMEPLATE ON SERVICE PANEL INDICATING ACTUAL CALCULATED FAULT CURRENT AVAILABLE.
11. DO NOT RUN RACEWAYS OR INSTALL ANY EQUIPMENT ON BUILDING EXTERIOR WALLS.
12. WIRE AND CONDUIT SIZES SHALL BE INSTALLED AND SIZED TO COMPENSATE FOR VOLTAGE DROP PER THE NATIONAL ELECTRICAL CODE.
13. FLEXIBLE CONDUIT MAY BE USED ONLY FOR FINAL CONNECTION TO EQUIPMENT (MAXIMUM LENGTH 6'-0").
14. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT, WIRE WAY OR OTHER PROTECTIVE COVER AS REQUIRED TO COMPLY WITH GOVERNING CODE.
15. CONDUCTORS IN UNINSULATED CEILING SPACE AND OUTDOORS SHALL BE DERATED USING A 122 DEGREE (FAHRENHEIT) TEMPERATURE. CONTRACTOR IS RESPONSIBLE FOR REVISING CONDUCTOR SIZES BASED ON CONDUIT RATING.
16. ALL OUTDOOR EQUIPMENT SHALL BE WEATHER PROTECTED, NEMA 3R UNLESS OTHERWISE NOTED OR SPECIFIED.
17. CONTRACTOR SHALL PROVIDE FIRE PROOFING FOR ANY PIPES OR CONDUITS THAT PENETRATE THROUGH ANY FIRE/SMOKE RATED FLOORS, WALLS, CEILINGS, ROOFS OR RUNS INSIDE OF CHASES. FIRE PROOFING METHODS AND MATERIALS SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATING OF PARTITION.
18. IF A PROTECTIVE DEVICE RATING IS MARKED ON AN APPLIANCE OR EQUIPMENT, THE BRANCH-CIRCUIT OVERCURRENT DEVICE RATING SHALL NOT EXCEED THE PROTECTIVE DEVICE RATING MARKED ON THE APPLIANCE OR EQUIPMENT.
19. ALL SWITCHES SHALL BE 3" AWAY FROM DOOR TRIM WHERE LOCATED AT ENTRY TO ROOMS. ALL OCCUPANCY SENSORS SHALL BE PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY TO SENSE OCCUPANCY.
20. CONTRACTOR MUST COORDINATE WITH ALL OTHER DISCIPLINES' DRAWINGS AND SPECIFICATIONS.
21. SYMBOLS FOR VARIOUS ELEMENTS AND SYSTEMS ARE SHOWN ON THE DRAWINGS. SHOULD THERE BE ANY DOUBT REGARDING THE MEANING OR INTENT OF THE SYMBOLS USED, AN INTERPRETATION SHALL BE OBTAINED FROM THE ENGINEER IN WRITING.
22. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
23. ALL EMPTY CONDUITS SHALL CONTAIN A NYLON PULL STRING FOR FUTURE CONDUCTOR PULLS.
24. FLOOR BOXES SHOWN ON THE PLANS ARE DIAGRAMMATIC. COORDINATE EXACT LOCATIONS WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. AVOID STRUCTURAL ELEMENTS AND OTHER SYSTEMS.
25. PROVIDE AND INSTALL CONDUIT EXPANSION FITTINGS WHERE CONDUIT RUNS CROSS BUILDING EXPANSION JOINTS. REFER TO ARCHITECTURAL AND STRUCTURAL FOR EXPANSION JOINT LOCATIONS.
26. LIGHT FIXTURES DESIGNATED WITH "(nl)" SHALL BE UNSWITCHED NIGHT LIGHTS.
27. ALL BRANCH CIRCUIT PANELBOARDS RATED 400A AND BELOW SHALL BE COMPLETELY FILLED WITH 20A/1P SPARE BREAKERS IN ALL PANEL SPACES, EVEN IF NOT INDICATED IN PANEL SCHEDULES.
28. COORDINATE WITH MEPCE FOR FINAL NIGHT LIGHT LOCATIONS.
29. FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL SMOKE DETECTORS IN ALL EXHAUST DUCTS SHOWN IN MECHANICAL PLANS IN INMATE AREAS. ALL SECURE AREAS TO INCLUDE VANDAL RESISTANT DEVICES AND MATERIALS.
30. ALL FIRE ALARM DEVICES SHOWN ARE DIAGRAMMATIC. FINAL LOCATIONS IN AREAS WITH HARD CEILING OR WITH DECORATIVE CEILINGS WILL NEED TO BE COORDINATED WITH ENGINEER AND ARCHITECT.

1

31. MEANS FOR ELEVATOR SHUTDOWN IN ACCORDANCE WITH SECTION 3005.5 SHALL NOT BE INSTALLED PER CITY AMENDMENT.

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100 Glass Street
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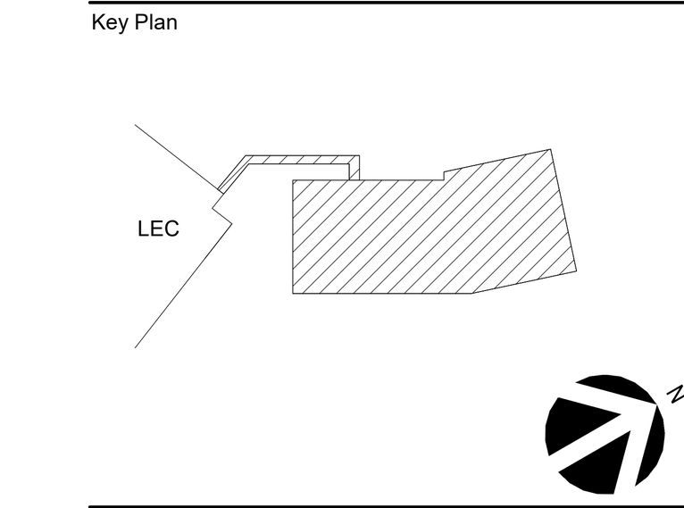
Key Plan



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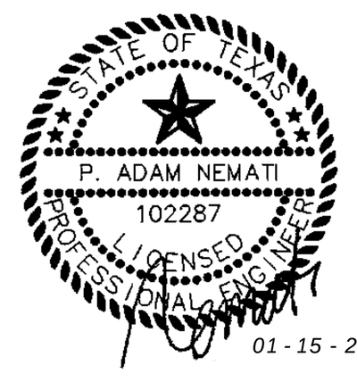

No.	Description	Date
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	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

ELECTRICAL GENERAL NOTES AND LEGEND

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

E001

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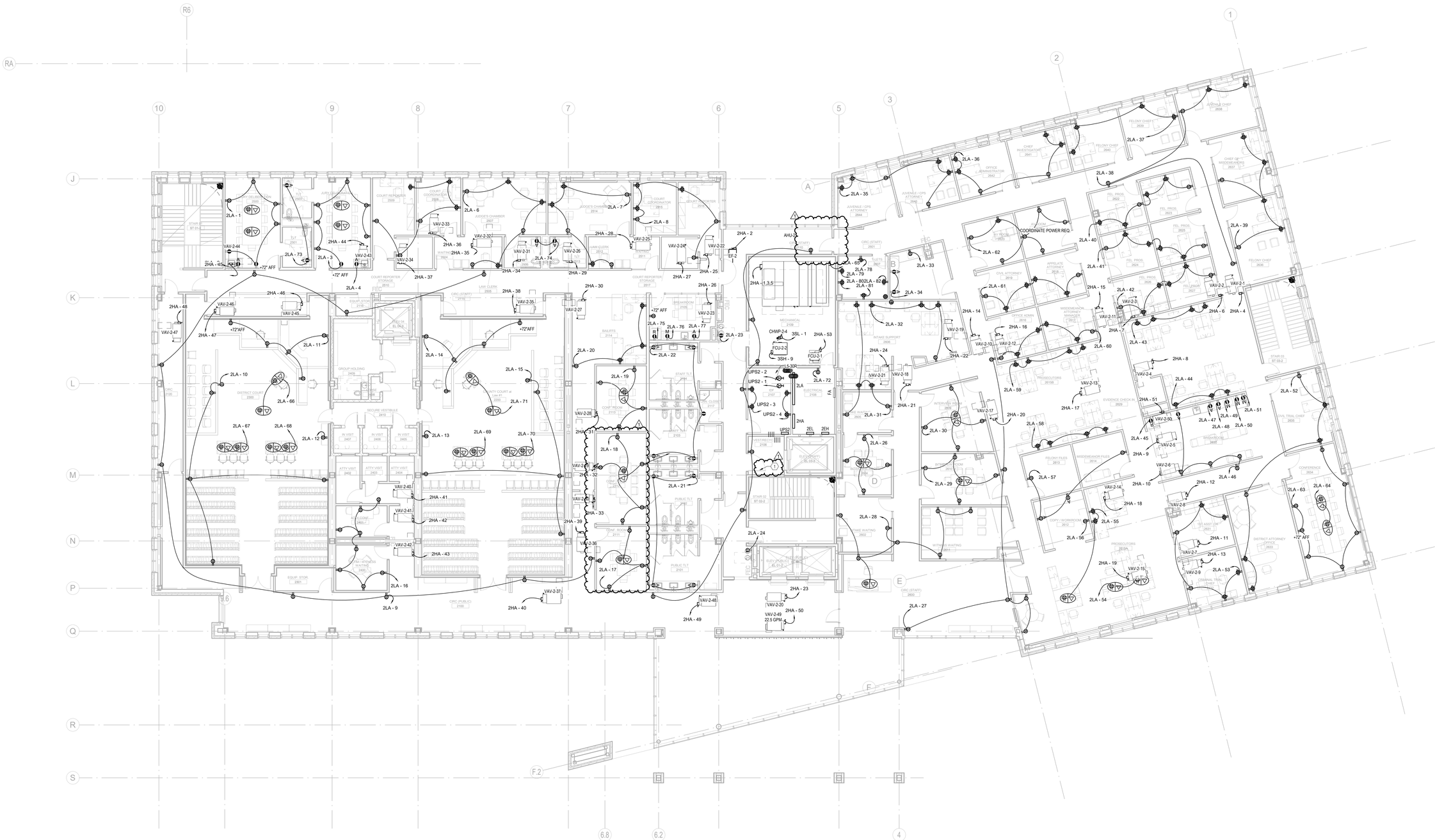
PLAN NOTES

1. POWER ALL AUTOMATIC FAUCETS WITH NEAREST AVAILABLE GENERAL PURPOSE 120V CIRCUIT.
2. UTILIZE CIRCUITS 3SL-5, 3SL-6 TO POWER CONDENSATE PUMPS AND LOCATE WITH FAN COIL UNITS.
3. POWER FIRE SMOKE DAMPERS WITH NEAREST 120V RECEPTACLE, REFERENCE MECHANICAL PLANS FOR LOCATIONS.

NOTES BY SYMBOL

1. DOOR PROVIDED WITH HOLD OPEN HARDWARE AND SHALL BE RELEASED BY SMOKE ALARM SYSTEM.



1 ELECTRICAL POWER PLAN - LEVEL 02

1/8" = 1'-0"

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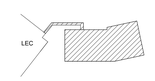

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	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
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Sheet Title

ELECTRICAL POWER PLAN - SECOND LEVEL

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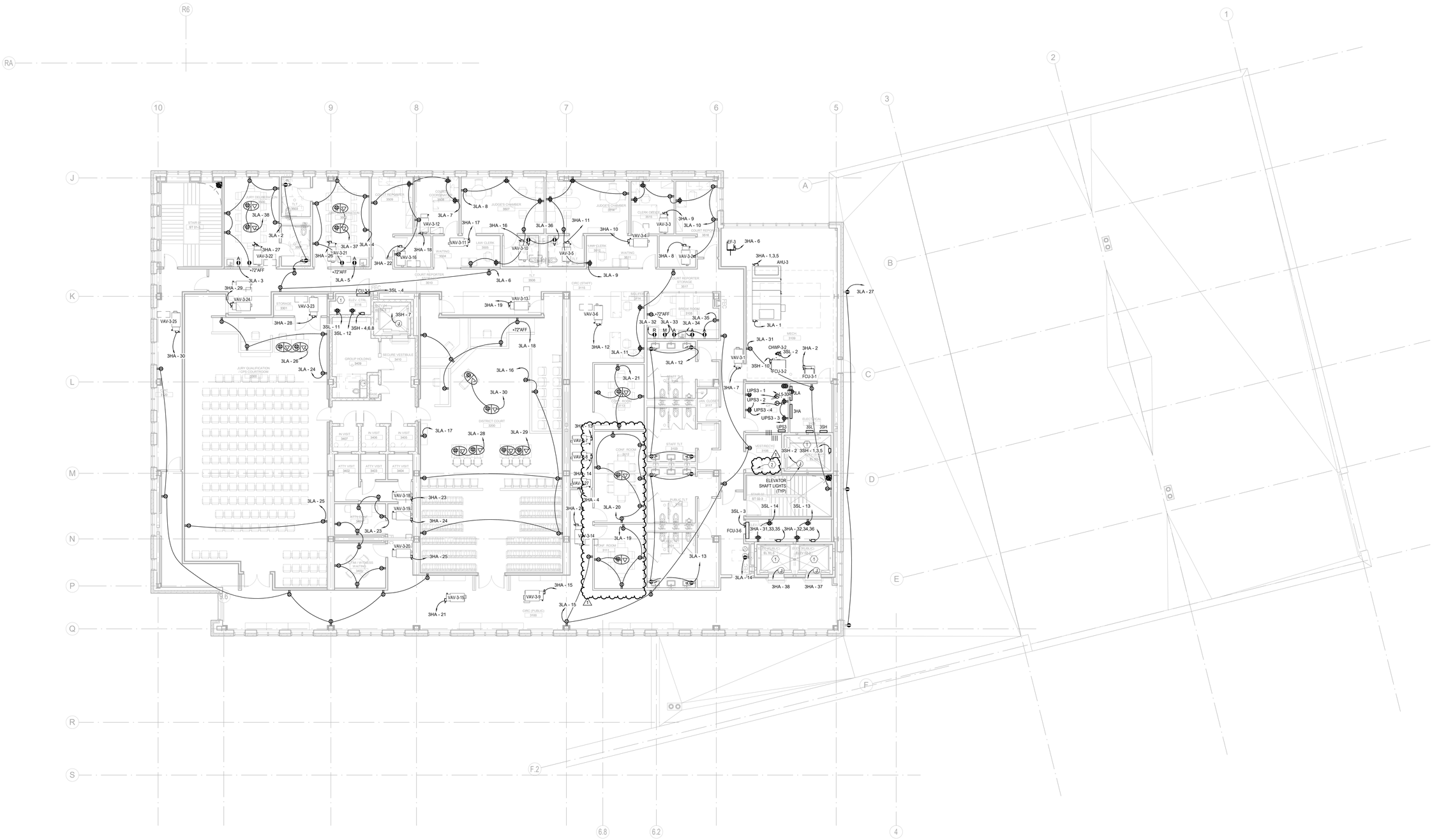
Sheet Number

E103



PLAN NOTES

1. POWER ALL AUTOMATIC FAUCETS WITH NEAREST AVAILABLE GENERAL PURPOSE 120V CIRCUIT.
2. UTILIZE CIRCUITS 3SL-7, 3SL-8, 3SL-9, 3SL-10, TO POWER CONDENSATE PUMPS AND LOCATE WITH FAN COIL UNITS.
3. POWER FIRE SMOKE DAMPERS WITH NEAREST 120V RECEPTACLE, REFERENCE MECHANICAL PLANS FOR LOCATIONS.

NOTES BY SYMBOL

1. REFER TO DETAIL 3 ON SHEET E901 FOR ADDITIONAL INFORMATION. ALL ELEVATORS FREIGHT AND INMATE ELEVATOR, CIRCUITS TO BE POWERED BY STANDBY "S' BRANCH PANELS.
2. DOOR PROVIDED WITH HOLD OPEN HARDWARE AND SHALL BE RELEASED BY SMOKE ALARM SYSTEM. 1

1 ELECTRICAL POWER PLAN - LEVEL 03
1/8" = 1'-0"

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01 - 15 - 2021

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	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

ELECTRICAL POWER
PLAN - THIRD LEVEL

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Sheet Number

E104

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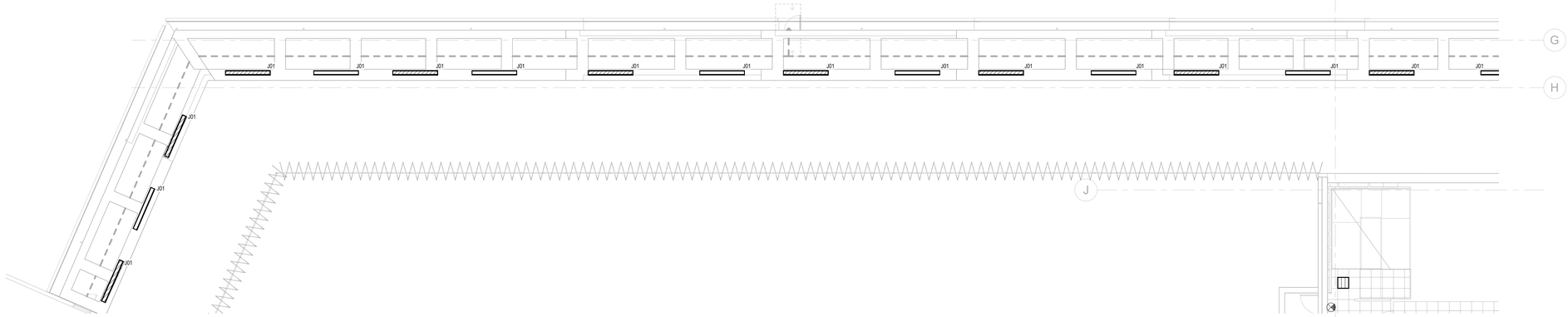
PLAN NOTES

1. STAIR LANDING LIGHTS (B01) ARE TO BE PLACE UNDERNEATH LANDINGS WITHOUT A03 FIXTURES.
2. CONTRACTOR TO PROVIDE LITHONIA AFN FIXTURE AT ALL EGRESS LANDINGS ABOVE DOOR.
3. UTILIZE 12 CIRCUITS FROM PANEL GHA TO POWER ALL LIGHTING ON FLOOR. UTILIZE 6 CIRCUITS FROM PANEL GSH TO POWER EMERGENCY FIXTURES.

NOTES BY SYMBOL



2 ELECTRICAL LIGHTING PLAN - CONNECTOR TUNNEL
1/8" = 1'-0"

1 ELECTRICAL LIGHTING PLAN - GROUND LEVEL
1/8" = 1'-0"

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Dallas, TX 75201 USA
t +1 214 720 6000 f +1 214 720 6005

In Association with

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Civil & Structural Engineering
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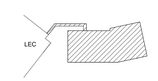
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
2928 Story Road West
Las Colinas, Texas 75038

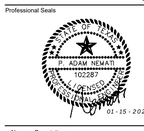
Engineering Firm : F-4050
Dallas/Fort Worth, Texas
www.mepce.com
972-870-9060

PROJECT CODE
31.00154

Key Plan



Professional Seals



No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title
ELECTRICAL LIGHTING PLAN - GROUND LEVEL

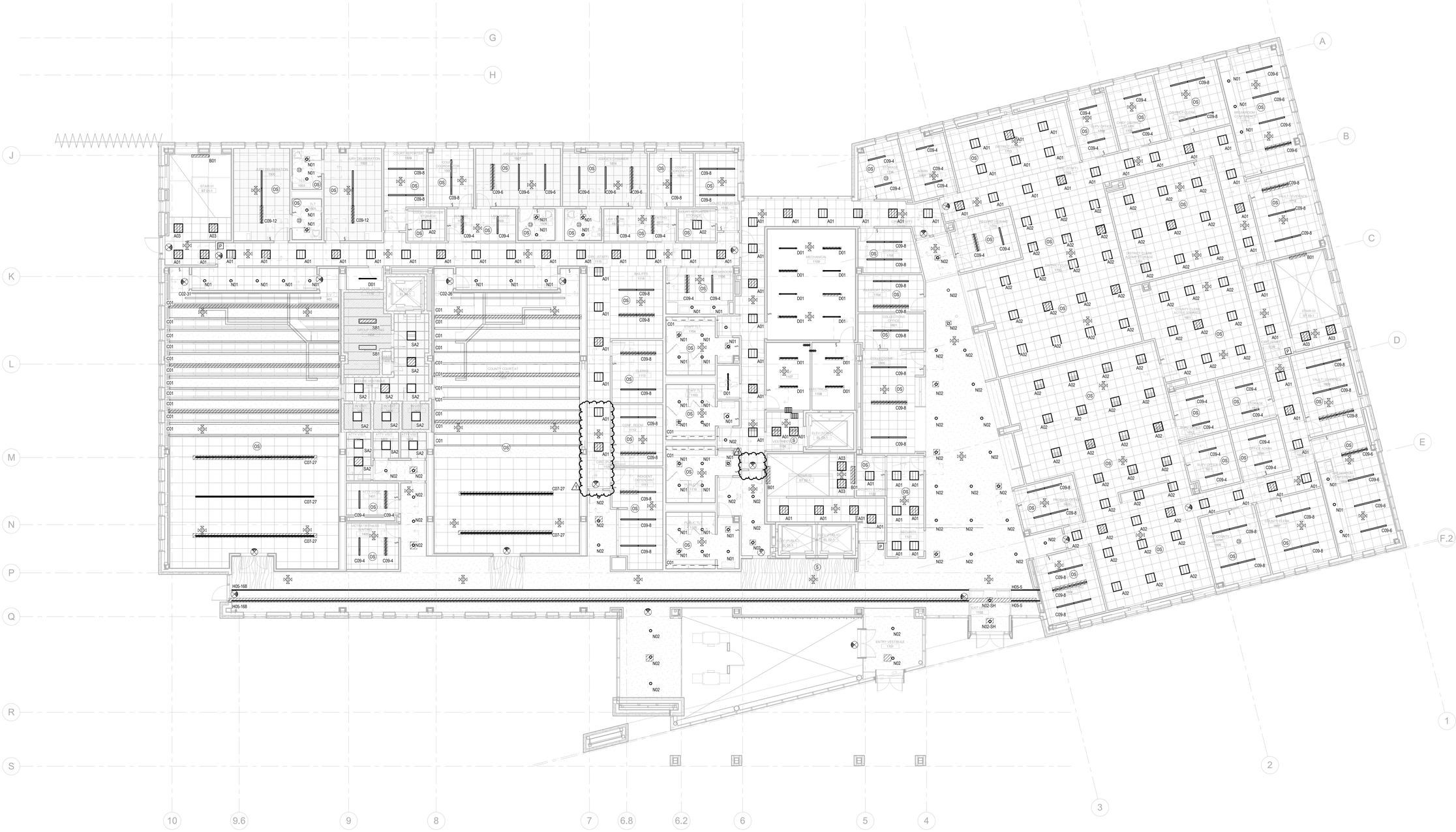
Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
E201

PLAN NOTES

1. STAIR LANDING LIGHTS (B01) ARE TO BE PLACE UNDERNEATH LANDINGS WITHOUT A03 FIXTURES.
2. CONTRACTOR TO PROVIDE LITHONIA AFN FIXTURE AT ALL EGRESS LANDINGS ABOVE DOOR.
3. UTILIZE 12 CIRCUITS FROM PANEL 1HA TO POWER ALL LIGHTING ON FLOOR. UTILIZE 6 CIRCUITS FROM PANEL GSH TO POWER EMERGENCY FIXTURES.

NOTES BY SYMBOL



1 ELECTRICAL LIGHTING PLAN - LEVEL 01

1/8" = 1'-0"

1/14/2021 1:49:24 PM

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Dallas, TX 75201 USA
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PROJECT CODE
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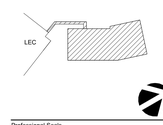
Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

ELECTRICAL LIGHTING PLAN - FIRST LEVEL

Original is 48 x 36. Do not scale contents of this drawing.

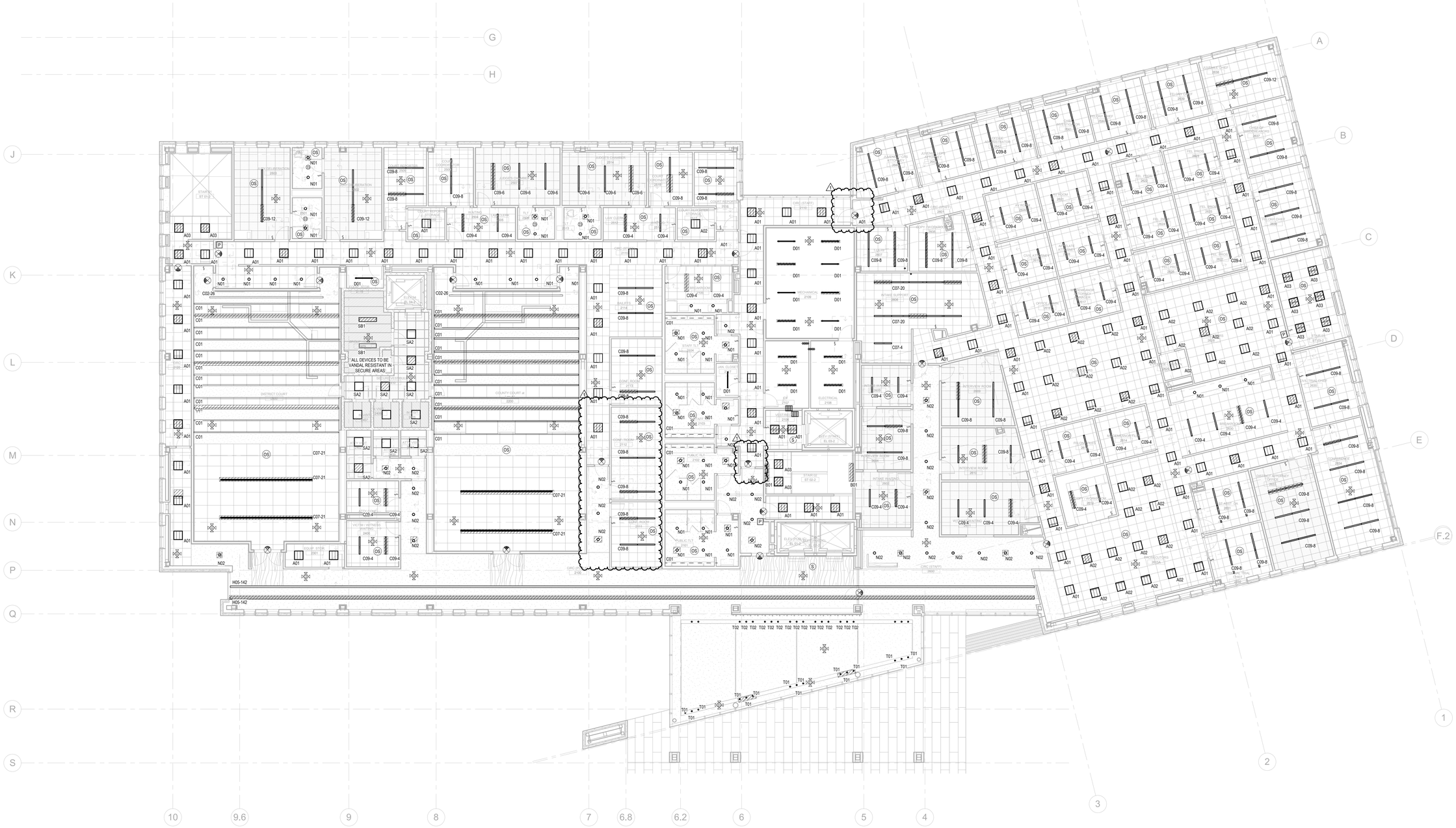
Sheet Number

E202

PLAN NOTES

1. STAIR LANDING LIGHTS (B01) ARE TO BE PLACE UNDERNEATH LANDINGS WITHOUT A03 FIXTURES.
2. UTILIZE 12 CIRCUITS FROM PANEL 2HA TO POWER ALL LIGHTING ON FLOOR. UTILIZE 6 CIRCUITS FROM PANEL 2SH TO POWER EMERGENCY FIXTURES.

NOTES BY SYMBOL



1 ELECTRICAL LIGHTING PLAN - LEVEL 02
1/8" = 1'-0"

1/14/2021 1:49:34 PM

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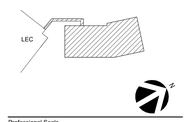
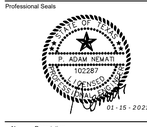
PROJECT CODE
31.00154

Key Plan



Professional Seals



No.	Description	Date
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	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

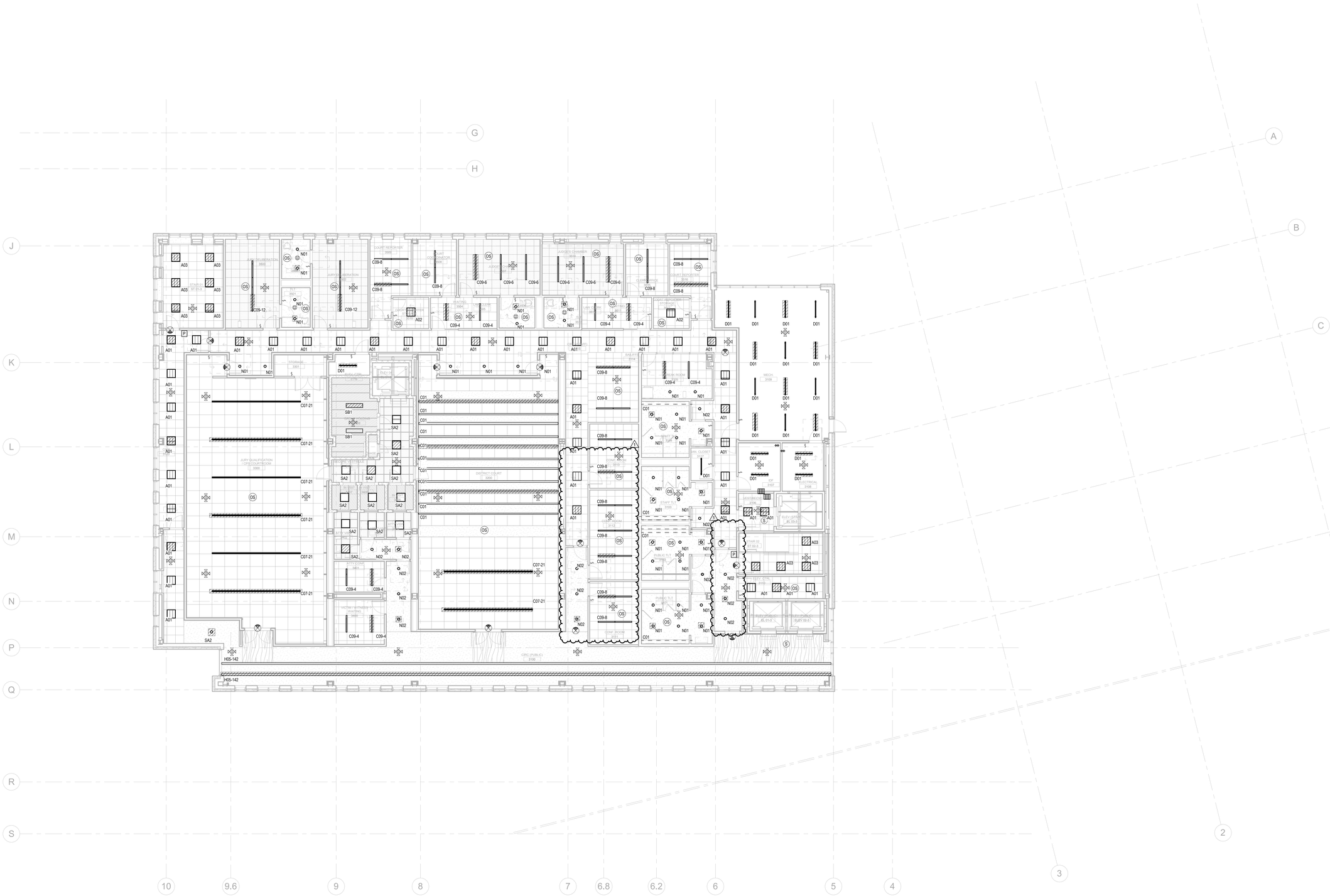
Sheet Title

ELECTRICAL LIGHTING PLAN - SECOND LEVEL

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

E203



PLAN NOTES

1. UTILIZE 12 CIRCUITS FROM PANEL 4HA TO POWER ALL LIGHTING ON FLOOR. UTILIZE 6 CIRCUITS FROM PANEL GSH TO POWER EMERGENCY FIXTURES.

NOTES BY SYMBOL

1. TBD

1 ELECTRICAL LIGHTING PLAN - LEVEL 03

1/8" = 1'-0"

1/14/2021 1:49:40 PM

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www.mepce.com
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PROJECT CODE
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Key Plan

Professional Seals

P. ADAM NEMATI
102287
01 - 15 - 2021

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

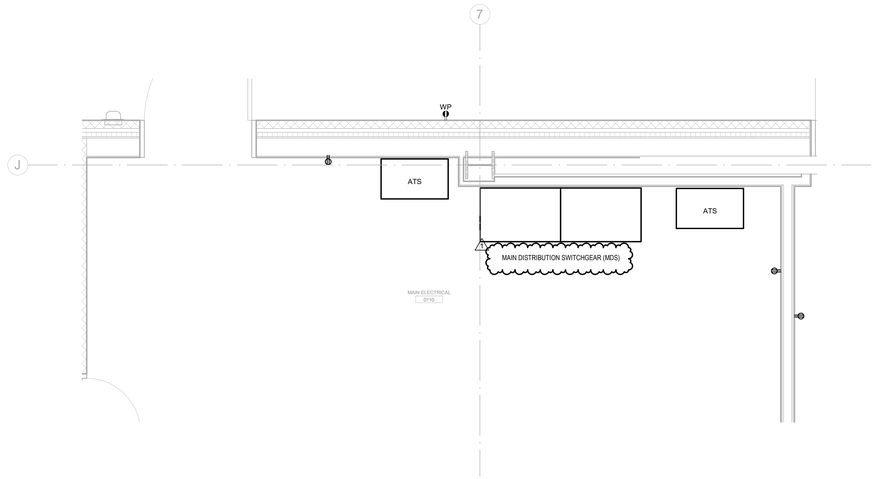
Sheet Title

ELECTRICAL LIGHTING
PLAN - THIRD LEVEL

Original is 48 x 36. Do not scale contents of this drawing.

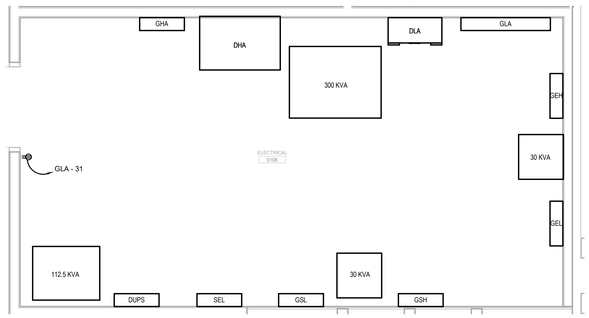
Sheet Number

E204



1 ELECTRICAL POWER PLAN - MAIN ELEC ROOM 0108

1/2" = 1'-0"



2 ELECTRICAL POWER PLAN - ELEC ROOM 0106

1/2" = 1'-0"

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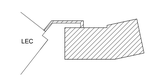
Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

ELECTRICAL ENLARGED PLANS

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Sheet Number

E301

1/14/2021 1:49:43 PM

Branch Panel: 3SH

Location: ELECTRICAL 3108
Supply From: GSH
Mounting: Surface
Enclosure: Type 1

Volts: 480Y/277
Phases: 3
Wires: 4

A.I.C. Rating: 42000
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				40 A 2 A			1	20 A	LIGHTING ELEV (STAFF) EL 03-3	2
3	ELEV (STAFF) EL 03-3	55 A	3		40 A 28 A					4
5						40 A 28 A	3	40 A	ELEV. CTRL. 3116	6
7	Power ELEV 04 EL 04-3	20 A	1	2 A 28 A						8
9	FCU-2-4	20 A	1		2 A 17 A		1	20 A	FCU-3-2	10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
		Total Load:		19990 VA	24004 VA	18990 VA				
		Total Amps:		73 A	87 A	69 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	1000 VA	100.00%	1000 VA		
Mechanical Equipment	61984 VA	100.00%	61984 VA	**Total Conn. Load:**	62984 VA
				Total Est. Demand:	62984 VA
				Total Conn. Current:	76 A
				Total Est. Demand Current:	76 A

Notes:

Branch Panel: 3SL

Location: ELECTRICAL 3108
Supply From: GSL
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	CHWP-2-4	20 A	1	4 A 0 A			1	20 A	CHWP-3-2	2
3	FCU-3-6	20 A	1		1 A 1 A		1	20 A	FCU-3-5	4
5	CONDENSATE PUMP	20 A	1			4 A 4 A	1	20 A	CONDENSATE PUMP	6
7	4" Square 120 - 1	20 A	1	4 A 4 A			1	20 A	4" Square 120 - 1	8
9	4" Square 120 - 1	20 A	1		4 A 4 A		1	20 A	4" Square 120 - 1	10
11	Receptacle ELEV. CTRL. 3116	20 A	1			3 A 3 A	1	20 A	Receptacle ELEV. CTRL. 3116	12
13	Receptacle ELEV. CTRL. 3110	20 A	1	6 A 6 A			1	20 A	Receptacle ELEV. CTRL. 3110	14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
		Total Load:		2940 VA	1240 VA	1720 VA				
		Total Amps:		25 A	10 A	15 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	2160 VA	100.00%	2160 VA		
Mechanical Equipment	740 VA	100.00%	740 VA	**Total Conn. Load:**	2900 VA
				Total Est. Demand:	2900 VA
				Total Conn. Current:	8 A
				Total Est. Demand Current:	8 A

Notes:

Branch Panel: UPSG

Location: MDF 0115
Supply From: DUPS
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	L5-30R IDF 0116	20 A	1	24 A 24 A			1	20 A	L5-30RIDF 0116	2
3	L5-30R IDF 0116	20 A	1		24 A 24 A		1	20 A	L5-30RIDF 0116	4
5	L5-30RIDF 0116	20 A	1			24 A 24 A	1	20 A	L5-30RIDF 0116	6
7	Receptacle Room 0115, 0116	20 A	1	8 A 6 A			1	20 A	Receptacle IDF 0116	8
9	Receptacle MDF 0115	20 A	1		6 A					10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
		Total Load:		7380 VA	6480 VA	5760 VA				
		Total Amps:		62 A	55 A	48 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	19620 VA	100.00%	19620 VA		
				Total Conn. Load:	19620 VA
				Total Est. Demand:	19620 VA
				Total Conn. Current:	54 A
				Total Est. Demand Current:	54 A

Notes:

Branch Panel: 3LA

Location: ELECTRICAL 3108
Supply From: DLA
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	AHU-3 UV LAMP	15 A	1	2 A 9 A			1	20 A	Receptacle JURY DELIBERATION 3500	2
3	Coffee Maker JURY DELIBERATION 3500	20 A	1		2 A 9 A		1	20 A	Receptacle JURY DELIBERATION 3502	4
5	Coffee Maker JURY DELIBERATION 3502	20 A	1			2 A 8 A	1	20 A	Receptacle Room 3501, 3110	6
7	Receptacle Room 3508, 3509, 3510	20 A	1	14 A 14 A			1	20 A	Receptacle Room 3506, 3507, 3504, 3505	8
9	Receptacle Room 3514, 3512	20 A	1		12 A 14 A		1	20 A	Receptacle Room 3515, 3516	10
11	Receptacle Room 3110, 3114	20 A	1			8 A 6 A	1	20 A	Receptacle Room 3104, 3103	12
13	Receptacle Room 3102, 3101	20 A	1	6 A 2 A			1	20 A	Water Fountain CIRC (PUBLIC) 3100	14
15	Receptacle Room 3100, 3106, 3110	20 A	1		8 A 9 A		1	20 A	Receptacle DISTRICT COURT 3200	16
17	Copier DISTRICT COURT 3200	20 A	1			2 A 8 A	1	20 A	Receptacle DISTRICT COURT 3200	18
19	Receptacle CONF. ROOM 3111	20 A	1	9 A 12 A			1	20 A	Receptacle CONF. ROOM 3112	20
21	Receptacle CONF. ROOM 3113	20 A	1		9 A 9 A		1	20 A	Receptacle Room 3100, 3120	22
23	Receptacle Room 3401, 3400, 3100	20 A	1			14 A 6 A	1	20 A	Receptacle JURY QUALIFICATION / CPS...	24
25	Receptacle JURY QUALIFICATION / CPS...	20 A	1	3 A 6 A			1	20 A	Receptacle JURY QUALIFICATION / CPS...	26
27	Receptacle	20 A	1		5 A 6 A		1	20 A	Receptacle DISTRICT COURT 3200	28
29	Receptacle DISTRICT COURT 3200	20 A	1			6 A 6 A	1	20 A	Receptacle DISTRICT COURT 3200	30
31	Receptacle Room 3109, ST 02-3, 3108	20 A	1	5 A 2 A			1	20 A	Refrigerator BREAK ROOM 3105	32
33	Microwave BREAK ROOM 3105	20 A	1		2 A 2 A		1	20 A	Coffee Maker BREAK ROOM 3105	34
35	Receptacle BREAK ROOM 3105	20 A	1			6 A 3 A	1	20 A	Receptacle Room 3506, 3513	36
37	Receptacle JURY DELIBERATION 3502	20 A	1	6 A 6 A			1	20 A	Receptacle JURY DELIBERATION 3500	38
39										40
41										42
43										44
45										46
47										48
49										50
51										52
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55										56
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61										62
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67										68
69										70
71										72
73										74
75										76
77										78
79										80
81										82
83										84
		Total Load:		11212 VA	10080 VA	8640 VA				
		Total Amps:		95 A	86 A	72 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	28440 VA	100.00%	28440 VA		
Mechanical Equipment	232 VA	100.00%	232 VA	**Total Conn. Load:**	29932 VA
Coffee Maker	540 VA	90.00%	486 VA	**Total Est. Demand:**	29878 VA
Microwave	180 VA	100.00%	180 VA	**Total Conn. Current:**	83 A
Refrigerator	180 VA	100.00%	180 VA	**Total Est. Demand Current:**	83 A
Water Fountain	180 VA	100.00%	180 VA		
Copier	180 VA	100.00%	180 VA		

Notes:

Branch Panel: UPS3

Location: IDF 3107
Supply From: DUPS
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	L5-30R IDF 3107	30 A	1	24 A 24 A			1	30 A	L5-30R IDF 3107	2
3	Receptacle IDF 3107	20 A	1		6 A 6 A		1	20 A	Receptacle IDF 3107	4
5										6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
		Total Load:		5760 VA	1440 VA	0 VA				
		Total Amps:		50 A	14 A	0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	7200 VA	100.00%	7200 VA		
				Total Conn. Load:	7200 VA
				Total Est. Demand:	7200 VA
				Total Conn. Current:	20 A
				Total Est. Demand Current:	20 A

Notes:

Switchboard: MDS

Location: MAIN ELECTRICAL 0110
Supply From:
Mounting:
Enclosure:

Volts: 480Y/277
Phases: 3
Wires: 4

A.I.C. Rating: 100000
Mains Type:
Mains Rating: 2500 A
MCB Rating:

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	GSH	3	400 A	400 A	127355 VA	
2	Chiller	3	400 A	400 A	304977 VA	
3	DHA	3	400 A	1200 A	461124 VA	
4	Chiller	3	400 A	400 A	304977 VA	
5	GEH	3	400 A	225 A	48000 VA	
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	1188433 VA	
				Total Amps:	1429 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3240 VA	100.00%	3240 VA		
Power	614354 VA	100.00%	614354 VA	**Total Conn. Load:**	1188433 VA
Receptacle	239760 VA	100.00%	239760 VA	**Total Est. Demand:**	1186354 VA
Mechanical Equipment	321899 VA	100.00%	321899 VA	**Total Conn. Current:**	1429 A
Coffee Maker	2700 VA	65.00%	1755 VA	**Total Est. Demand Current:**	1427 A
Microwave	1980 VA	65.00%	1287 VA		
Refrigerator	1260 VA	65.00%	819 VA		
Water Fountain	1260 VA	100.00%	1260 VA		
Copier	1980 VA	100.00%	1980 VA		

Notes:

Branch Panel: 2EH

Location: ELECTRICAL 2108
Supply From: GEH
Mounting: Surface
Enclosure: Type 1

Volts: 480Y/277
Phases: 3
Wires: 4

A.I.C. Rating: 22000
Mains Type:
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	EMERGENCY LIGHTING	20 A	1	5 A 5 A			1	20 A	EMERGENCY LIGHTING	2
3	EMERGENCY LIGHTING	20 A	1		5 A 5 A		1	20 A	EMERGENCY LIGHTING	4
5	EMERGENCY LIGHTING	20 A	1			5 A 5 A	1	20 A	EMERGENCY LIGHTING	6
7	EMERGENCY LIGHTING	20 A	1	5 A 5 A			1	20 A	EMERGENCY LIGHTING	8
9	EMERGENCY LIGHTING	20 A	1		5 A 5 A		1	20 A	EMERGENCY LIGHTING	10
11	EMERGENCY LIGHTING	20 A	1			5 A 5 A	1	20 A	EMERGENCY LIGHTING	12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
		Total Load:		5600 VA	5600 VA	5600 VA				
		Total Amps:		20 A	20 A	20 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: 2EL

Location: ELECTRICAL 2108
Supply From: GEL
Mounting: Surface
Enclosure: Type 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 22000
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1	FIRE ALARM - LEVEL 2	20 A	1	10 A 10 A			1	20 A	FIRE ALARM - LEVEL 2	2
3	FIRE ALARM - LEVEL 2	20 A	1		10 A 10 A		1	20 A	FIRE ALARM - LEVEL 3	4
5	FIRE ALARM - LEVEL 3	20 A	1			10 A 10 A	1	20 A	FIRE ALARM - LEVEL 3	6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
		Total Load:		2400 VA	2400 VA	2400 VA				
		Total Amps:		20 A	20 A	20 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: 3HA

Location: ELECTRICAL 3108
Supply From: DHA
Mounting: Surface
Enclosure: Type 1

Volts: 480Y/277
Phases: 3
Wires: 4

A.I.C. Rating: 42000
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
1				26 A 3 A			1	20 A	FCU-3-1	2
3	AHU-3	60 A	3		26 A 3 A		1	20 A	VAV-3-27	4
5						26 A 1 A	1	20 A	EF-3	6
7	VAV-3-1	20 A	1	3 A 3 A			1	20 A	VAV-3-2	8
9	VAV-3-3	20 A	1		3 A 3 A		1	20 A	VAV-3-4	10
11	VAV-3-5	20 A	1			3 A 3 A	1	20 A	VAV-3-6	12
13	VAV-3-7	20 A	1	3 A 3 A			1	20 A	VAV-3-8	14
15	VAV-3-9	20 A	1		5 A 3 A		1	20 A	VAV-3-10	16
17	VAV-3-11	20 A	1			3 A 3 A	1	20 A	VAV-3-12	18
19	VAV-3-13	20 A	1	3 A 3 A			1	20 A	VAV-3-14	20
21	VAV-3-15	20 A	1		5 A 3 A		1	20 A	VAV-3-16	22
23	VAV-3-18	20 A	1			3 A 3 A	1	20 A	VAV-3-19	24
25	VAV-3-20	20 A	1	3 A 3 A			1	20 A	VAV-3-21	26
27	VAV-3-22	20 A	1		3 A 3 A		1	20 A	VAV-3-23	28
29	VAV-3-24	20 A	1			3 A 5 A	1	20 A	VAV-3-25	30
31				28 A 28 A						32
33	ELEV. CTRL. 3110	40 A	3		28 A 28 A		3	40 A	ELEV. CTRL. 3110	34
35						28 A 28 A				36
37	ELEVATOR LIGHTING	20 A	1	2 A 2 A			1	20 A	ELEVATOR LIGHTING	38
39										40
41										42
43										44
45										46
47										48
49										50
51										52
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63										64
65										66
67										68
69										70
71										72
73										74
75										76
77										78
79										80
81										82
83										84
		Total Load:		31295 VA	31680 VA	30323 VA				
		Total Amps:		114 A	115 A	109 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	1000 VA	100.00%	1000 VA		
Mechanical Equipment	92297 VA	100.00%	92297 VA	**Total Conn. Load:**	93297 VA
				Total Est. Demand:	93297 VA
				Total Conn. Current:	112 A
				Total Est. Demand Current:	112 A

Notes:

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JUSTICE CENTER

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717 North Harwood Street
Suite 2850, LB 8
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In Association with

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Civil & Structural Engineering
100 Glass Street
Suite 201
Dallas, Texas 75207

MEPCE
MEP Engineering & Fire Suppression
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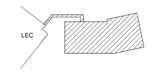
Las Colinas, Texas 75038

Engineering Firm : F-4050
Dallas/Fort Worth, Texas
www.mepce.com
972-870-9060

PROJECT CODE
31.00154

Key Plan



Professional Seals

No.	Description	Date
	100% DESIGN DEVELOPMENT	08-21-2020
	50% CONSTRUCTION DOCUMENTS	10-12-2020
	90% CONSTRUCTION DOCUMENTS	11-23-2020
	CONSTRUCTION DOCUMENTS	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 31.00154

Sheet Title

ELECTRICAL
SCHEDULES

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

E804

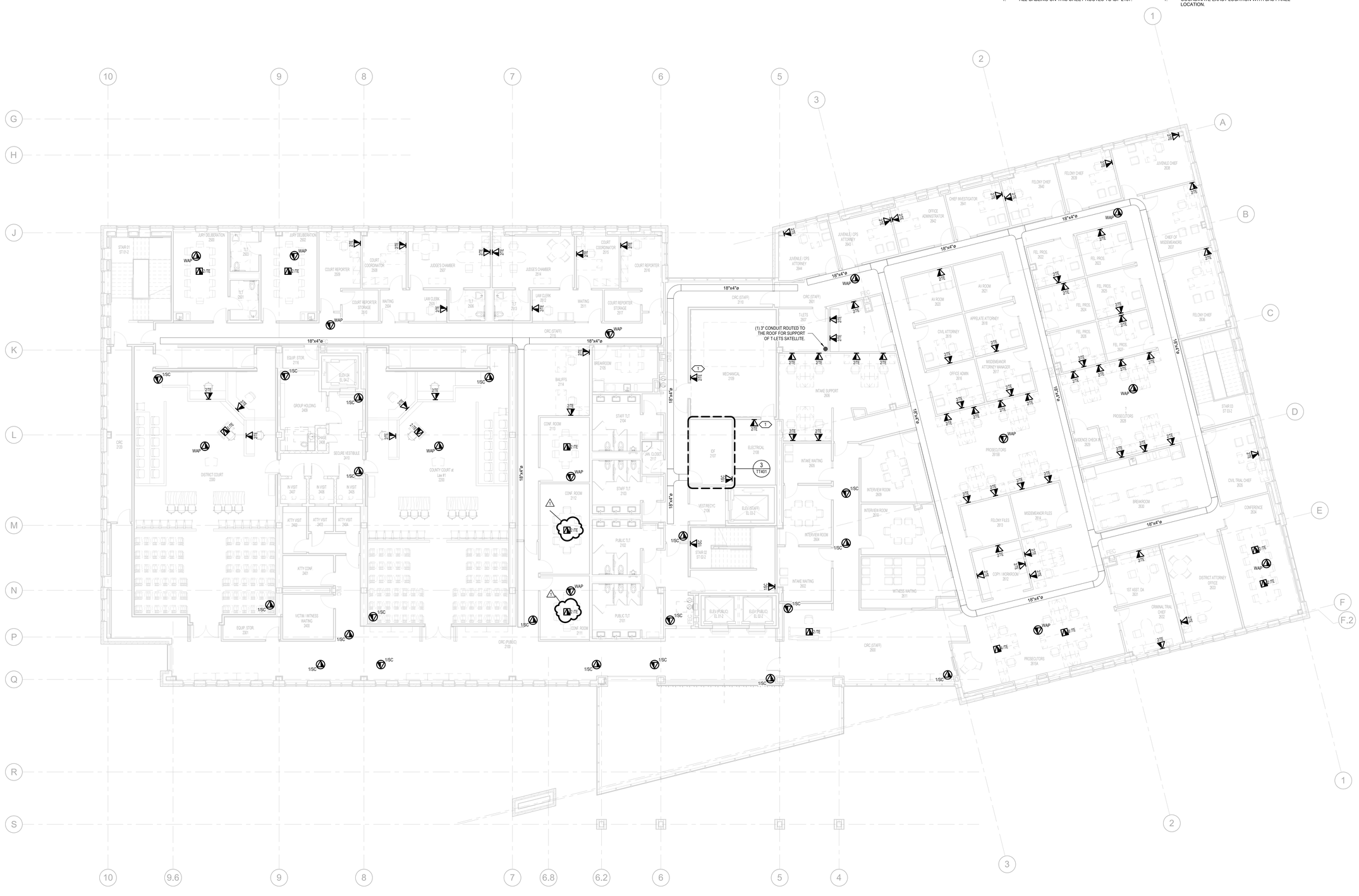
1/14/2021 1:49:46 PM

GENERAL NOTES:

1. ALL CABLING ON THIS SHEET ROUTES TO IDF 2107.

KEYED NOTES

1. COORDINATE EXACT LOCATION WITH BAS PANEL LOCATION.



1 FLOOR PLAN - LEVEL 2 - TELECOMMUNICATIONS
1/8" = 1'-0"

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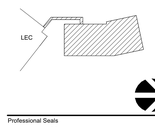
Key Plan



Professional Seals

F5971
01-15-2021

No.	Description	Date
	100% Design Development	08-21-2020
	50% Construction Documents	10-12-2020
	90% Construction Documents	11-23-2020
	Construction Documents	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 20.09003.00

Sheet Title

FLOOR PLAN - LEVEL 2 - TELECOMMUNICATIONS

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

TT203

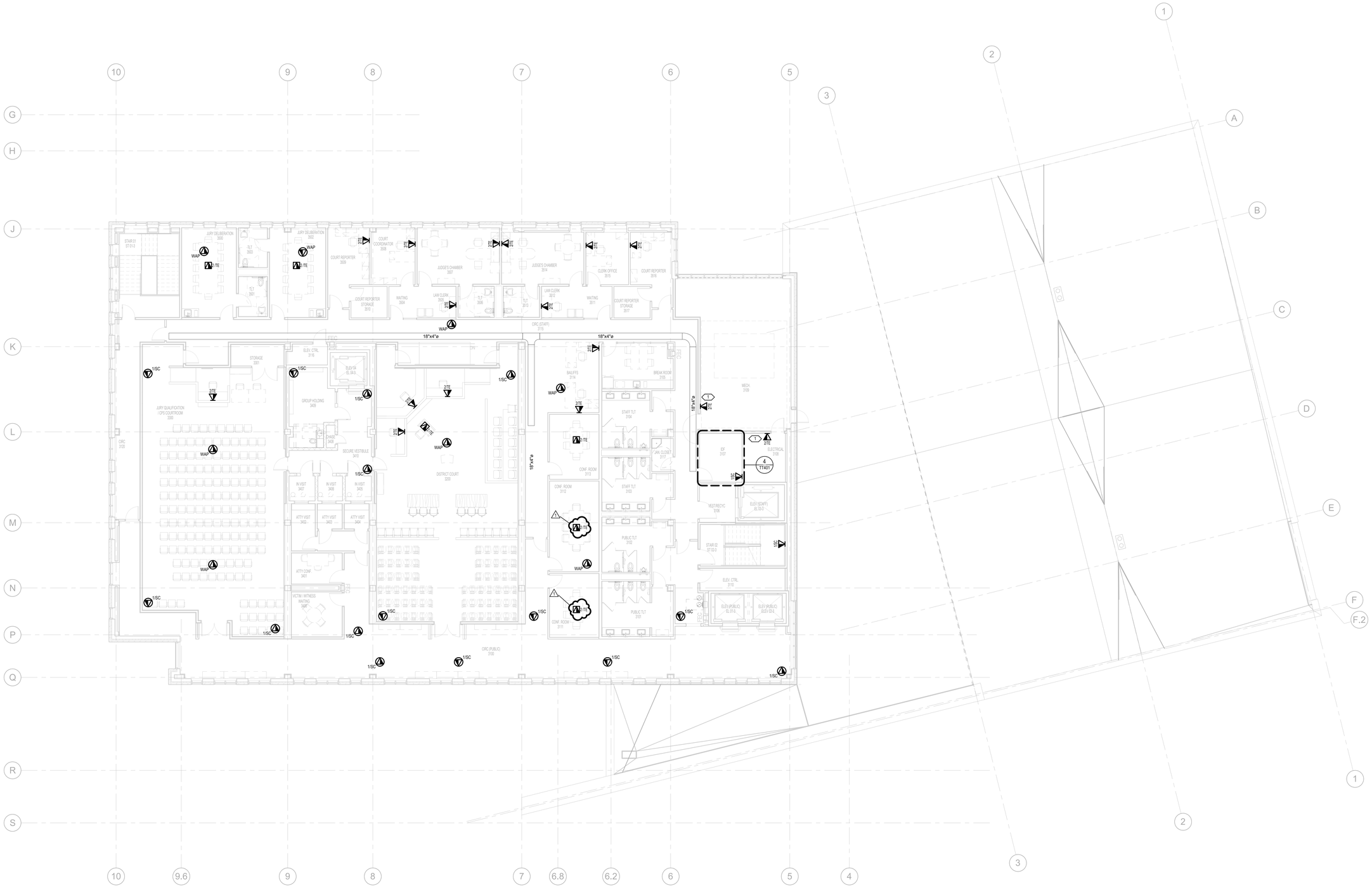
2021-01-13 10:34:16 AM

GENERAL NOTES:

1. ALL CABLING ON THIS SHEET ROUTES TO IDF 3107.

KEYED NOTES

1. COORDINATE EXACT LOCATION WITH BAS PANEL LOCATION.



1 FLOOR PLAN - LEVEL 3 - TELECOMMUNICATIONS
1/8" = 1'-0"

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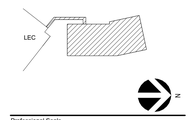
Key Plan



Professional Seals

SAADEDDINE DIMACHKIEH
56120

F5971
01-15-2021

No.	Description	Date
	100% Design Development	08-21-2020
	50% Construction Documents	10-12-2020
	90% Construction Documents	11-23-2020
	Construction Documents	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No. 20.09003.00

Sheet Title

FLOOR PLAN - LEVEL 3 - TELECOMMUNICATIONS

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

TT204

2021-01-13 10:34:18 AM

GENERAL NOTES:

1. ALL CABLING ON THIS SHEET ROUTES TO IDF 1107.

KEYED NOTE:

1. FURNISH AND INSTALL A TOUCHSCREEN WORKSTATION IN CENTRAL CONTROL OF THE EXISTING JAIL FOR TAKEOVER CONTROL OF THE COURTHOUSE CONTROL SYSTEM. TOUCHSCREEN WORKSTATION SHALL INCLUDE TOUCHSCREEN, CPU, MOUSE, KEYBOARD, AND INTERCOM MASTER STATION.
2. CALL BUTTON ONLY, NO AUDIO.
3. CAMERA SHALL BE AIMED AT COUNTER TO VIEW TRANSACTIONS.

1 FLOOR PLAN - LEVEL 1 - SECURITY
1/8" = 1'-0"

2021-01-13 10:34:21 AM

THE STATE OF TEXAS
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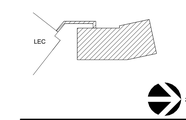
Key Plan



Professional Seals

F5971
01-15-2021

No.	Description	Date
	100% Design Development	08-21-2020
	50% Construction Documents	10-12-2020
	90% Construction Documents	11-23-2020
	Construction Documents	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 20.09003.00

Sheet Title
FLOOR PLAN - LEVEL 1 - SECURITY

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
TY202

GENERAL NOTES:

1. ALL CABLING ON THIS SHEET ROUTES TO IDF 2107.

KEYED NOTE:

1. CALL BUTTON ONLY, NO AUDIO.

ALL SECURITY DEVICES SHOWN INSIDE OF THE DASHED LINE ARE CONTROLLED AND MONITORED FROM BLDG CTRL SECURITY 1121.

1 FLOOR PLAN - LEVEL 2 - SECURITY
1/8" = 1'-0"

2021-01-14 1:46:38 PM

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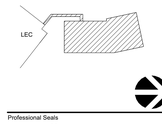

Professional Seals

F5971
01-15-2021

No.	Description	Date
	100% Design Development	08-21-2020
	50% Construction Documents	10-12-2020
	90% Construction Documents	11-23-2020
	Construction Documents	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 20.09003.00

Sheet Title

FLOOR PLAN - LEVEL 2 - SECURITY

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number

TY203

GENERAL NOTES:

1. ALL CABLING ON THIS SHEET ROUTES TO IDF 3107.

KEYED NOTE:

1. CALL BUTTON ONLY, NO AUDIO.

ALL SECURITY DEVICES SHOWN INSIDE OF THE DASHED LINE ARE CONTROLLED AND MONITORED FROM BLDG CTRL SECURITY 1121.

1 FLOOR PLAN - LEVEL 3 - SECURITY
1/8" = 1'-0"

2021-01-13 10:34:25 AM

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Key Plan

Professional Seals

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56120
F5971
01-15-2021

No.	Description	Date
	100% Design Development	08-21-2020
	50% Construction Documents	10-12-2020
	90% Construction Documents	11-23-2020
	Construction Documents	12-11-2020
1	ADDENDUM 01	01-15-2021

Project No: 20.09003.00

Sheet Title
FLOOR PLAN - LEVEL 3 - SECURITY

Original is 48 x 36. Do not scale contents of this drawing.

Sheet Number
TY204

Kaufman County Justice Center

~~100 N. Washington Street~~ 1902 E. Highway 175
Kaufman, Texas 75142

PROJECT MANUAL
VOLUME 1 OF 3
Divisions 01 - 14

Construction Documents
December 11, 2020

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PROJECT MANUAL
VOLUME 2 OF 3
Divisions 21 - 26

Construction Documents
December 11, 2020

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~~100 N. Washington Street~~ 1902 E. Highway 175
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PROJECT MANUAL
VOLUME 3 OF 3
Divisions 27 - 33

Construction Documents
December 11, 2020

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All Division 00 and 01 Sections are provided by the Construction Manager except Section 01 23 00 and Section 01 25 01

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END TABLE OF CONTENTS

SECTION 01 25 01 - SUBSTITUTION REQUEST FORM			
Project Name:	**Kaufman County Justice Center**	**Project No.:**	**20.09003.00**
Address:	**~~100 N. Washington St.~~1902 E Highway 175, Kaufman, Texas 75142**		
Substitution Req#		**Issue Date:**	
Issued by:			
Address:			
Copies to:			

Specified Product, Material, System or Equipment in the Contract Documents:

Spec Section No.:		**Article/Parag/Page#:**	
Drawing No./Detail:		**Drawing Issue Date:**	
Item Specified:			

Proposed Substitution:

Description:				
Manufacturer:				
Address:			**Tel:**	
Trade Name:		**Model #:**		
Installer:				
Address:			**Tel:**	
History	☐ **New Product**	☐ **2-5 years old**	☐ **5-10 years old**	☐ **more than 10 years old**
Attachments Included:	☐ **Drawings**	☐ **Product Data**	☐ **Samples**	
	☐ **Test Reports**	☐ **Comparative Data**	☐ **Research & Evaluation Reports**	

Reason for Substitution:	
SUBSTITUTIONS FOR CAUSE:	**SUBSTITUTIONS FOR CONVENIENCE:**
☐ **Product is no longer available due to:**	☐ **Contractor Initiated**
☐ **Strike/Lockout** ☐ **Mfr./Supplier Bankruptcy**	☐ **Owner Initiated**
☐ **Regulatory Changes.**	☐ **Will reduce construction time by ____days**
☐ **Changed Product Compatibility or Warranty Terms**	☐ **Will result in cost savings of $_____.**
☐ **Other:**	☐ **Other Advantage:**

Explanation of each item marked above (Attach Documentation):

COMPARISONS OF THE SPECIFIED ITEM AND THE PROPOSED SUBSTITUTION:				
Compare proposed substitution with specified quality, size, weight, visual appearance, durability, and performance using the fields below:				
Items:	Specified Product:		Proposed Product:	
Manufacturer:				
Name/Brand/No:				
Supplier Distributor:				
Mfr./Rep:				
Size:				
Weight:				
Appearance:				
DURABILITY: Identify at least three (3) similar local projects on which proposed substitution was used:				
1	Project:		Date Installed:	
	Address:			
	Owner/Contact:		Tel:	
2	Project:		Date Installed:	
	Address:			
	Owner/Contact:		Tel:	
3	Project:		Date Installed:	
	Address:			
	Owner/Contact:		Tel:	

PERFORMANCE: Insert testing feature/attributes, test protocol and performance below:			
Features/Attributes	Test Protocol	Specified Performance:	Proposed Performance

WARRANTY: Proposed product offers the same warranty? ☐ Yes ☐ No; explain		
Items:	Specified Product:	Proposed Product:

MAINTENANCE SERVICE: Same day service available? ☐ Yes ☐ No; explain:		
Items:	Specified Product:	Proposed Product:

SPARE PARTS: Source/Location:		
Items:	**Specified Product:**	**Proposed Product:**
CODE REQUIREMENTS		
Reference Testing Items:	**Specified Product:**	**Proposed Product:**
ADA Compliance:		
SUSTAINABLE DESIGN		
Features/Attributes:	**Specified Product:**	**Proposed Product:**

Describe changes required in other elements of the Work to accommodate the proposed substitution, including work performed by the Owner and separate contractors:
Describe changes of the Work required by the Owner, separate Contractors, or Consultants:
Describe the impact the proposed substitution will have on the work schedule in comparison to the work schedule without approval of the proposed substitution:

Define detailed cost impact of the proposed substitution in relation to the originally specified item, including related modifications required to other Work:
Proposed Substitution Summary:
Savings to the Owner for accepting substitution $_____ ($_____)
Proposed Change in Contract Time: ☐ Yes ☐ No [Add] [Deduct] _____Days.

Contractor's Certification and Waiver: Permission to make a substitution after Award of Contract shall be made effective only by Change Order. Change Order shall not relieve the Contractor, subcontractor, manufacturer, fabricator, or supplier from responsibility for deficiencies that may exist in the substituted product, nor for departure or deviation from the Contract Documents. The Undersigned certify:

1. **Except as otherwise expressly defined by this Request for Substitution and approved by Change Order, signer warrants that the proposed substitution:**
   a. **Has been fully investigated and determined to be equal or superior to specified product.**
   b. **Will satisfy requirements of the original specified product, material or equipment, including but not limited to appearance, quality, performance, code compliance, sustainability, and warranty.**
   c. **Will have equal maintenance service and replacement part sourcing as the original**
   d. **Will not have an adverse effect on other trades nor affect or delay progress schedule.**
   e. **Will not affect dimensions, functional clearances or be incompatible with adjacent materials.**
2. **Cost data and change in contract time stated are complete. Claims for additional costs or additional time related to accepted substitution which may subsequently become apparent are waived.**
3. **If substitution affects a correlated function, adjacent construction, or the work of other trades or contractors, the necessary changes and modifications to the affected work shall be considered as an essential part of the proposed substitution, to be accomplished by the Contractor without additional expense to the Owner.**
4. **Payment will be made for changes to building design, including A/E design, detailing and construction costs caused by the substitution.**
5. **Coordination, installation and changes in the Work necessary for accepted substation will be complete in all respects.**

Contractor's Signature:		Date:	

Conditions of Acceptance: The Architect/Engineer's approval, if granted, relies on data submitted and the opinion, knowledge, information, and belief of the Architect/Engineer at the time decision is rendered. The approval is conditional in nature and subject to re-evaluation and reconsideration if additional data or materials are submitted, or coordination with other work is observed to invalidate claims that substitution is equal to items originally specified

Architect/Engineer's Response:			
☐ Substitution Approved			
☐ Substitution Approved as Noted			
☐ Substitution Rejected -- Use specified materials.			
☐ Substitution Received too late -- Use specified materials.			
☐ More Information Required			
RFS Response by:		Date:	
	Hellmuth, Obata + Kassabaum		

HOK Accepted By:		Contractor Accepted by:		Owner Accepted By:	
Date:		Date:		Date:	

SECTION 07 81 23 - INTUMESCENT FIRE PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections apply to this Section.

1.2 SUMMARY

A. This Section includes mastic and intumescent fireproofing at locations indicated.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." Review methods and procedures for erecting masonry walls and partitions including, but not limited to, the following:

1. Review products, design ratings, restrained and unrestrained conditions, thicknesses, and other performance requirements.

1.4 SUBMITTALS

A. Product data for each intumescent fireproofing product indicated.

B. Product certificates from fireproofing manufacturers that each intumescent fireproofing product indicated for Project complies with specified requirements including those for fire-test-response characteristics and compatibility with adhesives, primers, and other surface coatings on substrates indicated to receive fireproofing.

C. Results from tests and inspections performed by Owner-employed independent testing agency will be reported promptly to Architect and Contractor.

D. Qualification data for firms and persons specified in "Quality Assurance" article to demonstrate their capabilities and experience. Include list of completed projects with project names, addresses, names of Architects and Owners, and other information specified.

1.5 QUALITY ASSURANCE

A. Fire-Test-Response Characteristics: Provide sprayed-on fireproofing products identical to those used in assemblies tested for the following fire-test-response characteristics, per test method indicated below, by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify packages (bags) containing fireproofing with appropriate classification markings of applicable testing and inspecting agency.

B. Installer Qualifications: Engage an experienced Installer certified, licensed, or otherwise qualified by the intumescent fireproofing manufacturer as having the necessary experience, staff, and training to install manufacturer's products per specified requirements.

C. Single-Source Responsibility: Obtain sprayed-on fireproofing materials from a single manufacturer for each different product required.

D. Owner will engage a qualified independent testing agency to perform field quality-control testing services specified in Part 3 of this Section.

E. Testing Agency Qualifications: To qualify for acceptance, an independent testing agency hired by Owner to test fireproofing products must demonstrate to Architect's satisfaction, based on evaluation of agency-submitted criteria conforming to ASTM E 699, that it has the experience and capability to conduct satisfactorily the testing indicated.

F. Field-Constructed Mockups: Prior to installing intumescent fireproofing, apply product specified for exposed applications to demonstrate both aesthetic effects and qualities of materials and execution. Build mockups to comply with the following requirements, using materials indicated for final unit of Work.

1. Locate mockups on site in location or, if not indicated, directed by Architect.
2. Extent of Mockups: Approximately 100 sq. ft. of surface for each product indicated.
3. Notify Architect one week in advance of the dates and times when mockups will be erected.
4. Demonstrate the proposed range of aesthetic effects and workmanship.
5. Obtain Architect's acceptance of mockups before start of final unit of Work.
6. Retain and maintain mockups during construction in undisturbed condition as a standard for judging completed unit of Work.

    a. Accepted mockups in undisturbed condition at time of Substantial Completion may become part of completed unit of Work.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to Project site in original, unopened packages with intact and legible manufacturers' labels identifying product and manufacturer; date of manufacture; shelf life, if applicable; and fire-resistance ratings applicable to Project.

B. Use materials with limited shelf life within period indicated. Remove from Project site and discard any materials whose shelf life has expired.

C. Store intumescent fireproofing materials inside, under cover, above ground, so they are kept dry until ready for use. Remove from Project site and discard any materials that have deteriorated.

1.7 PROJECT CONDITIONS

A. Environmental Conditions: Do not install intumescent fireproofing when ambient or substrate temperatures are 50 deg F (10 deg C) and falling, unless temporary protection and heat is provided to maintain temperatures at or above this level for 24 hours before, during, and for 24 hours after applying sprayed-on fireproofing.

B. Ventilation: Ventilate intumescent fireproofing by natural means or, where this is inadequate, forced-air circulation during and after application until fireproofing dries thoroughly.

1.8 SEQUENCING

A. Sequence and coordinate application of intumescent fireproofing with other related work specified in other Sections to comply with the following requirements:

1. Provide temporary enclosures to prevent deterioration of intumescent fireproofing for interior applications due to exposure to unfavorable environmental conditions.
2. Avoid unnecessary exposure of intumescent fireproofing to abrasion and other damage likely to occur during construction operations subsequent to its application.
3. Do not begin applying fireproofing until clips, hangers, supports, sleeves, and other items penetrating fireproofing are in place.
4. Defer installing ducts, piping, and other items that would interfere with applying fireproofing until fireproofing is installed.
5. Do not install enclosing or concealing construction until after fireproofing has been applied, inspected, tested, and corrections have been made to any defective fireproofing.

PART 2 - PRODUCTS

2.1 PERFORMANCE

A. Thickness: As required for fire-resistance design indicated, measured according to requirements of fire-resistance design.

B. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Flame-Spread Index: 0.
2. Smoke-Developed Index: 45 or less.

C. Hardness: Not less than 67, Type D durometer, according to ASTM D2240.

D. Bond Strength: Minimum 350 psi when tested in accordance with ASTM D4541.

2.2 MASTIC AND INTUMESCENT FIRE-RESISTIVE COATINGS

A. Intumescent Mastic Fireproofing: Factory-mixed formulation consisting of a modified vinyl-rich heavy-bodied mastic, water-based, with inorganic reinforcing fibers (non-asbestos) for spray application, complying with indicated fire resistive design.

1. Interior Intumescent Mastic Fire-Resistive Coating:

a. Basis of Design: Hilti Fire Finish CFP-SP WB. Other acceptable manufacturers include, but are not limited to the following.

1) A/D Firefilm III
2) Cafco Sprayfilm WB
3) Isolatex International
4) Interchar 1120; International.

2.3 AUXILIARY FIREPROOFING MATERIALS

A. General: Provide auxiliary fireproofing materials that are compatible with intumescent fireproofing products and substrates and are approved by UL or another testing and

inspecting agency acceptable to authorities having jurisdiction for use in the fire-resistive designs indicated.

B. Substrate Primers: For use on each different substrate, provide primer that complies with one or more of the following requirements:

1. Primer's bond strength complies with requirements specified in UL "Fire Resistance Directory" for coating materials based on a series of bond tests per ASTM E 736.
2. Primer is identical to those used in assemblies tested for the fire-test-response characteristics of sprayed-on fireproofing, per ASTM E 119, by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

C. Adhesive for Bonding Fireproofing: Product approved by manufacturer of sprayed-on fireproofing.

D. Topcoats: Suitable for application over applied fireproofing; of type recommended in writing by fireproofing manufacturer for each fire-resistance design. Color of topcoat shall be as selected by the Architect. Colors shall not be limited to manufacturer's standard colors.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean substrates of substances that could impair bond of fireproofing, including oil, grease, rolling compounds, incompatible primers, and loose mill scale.

B. Prime substrates where recommended by fireproofing manufacturer, except where compatible shop primer has been applied and is in satisfactory condition to receive fireproofing.

C. Cover other work subject to damage from fall-out or overspray of fireproofing materials during application. Provide temporary enclosure as required to confine spraying operations, protect the environment, and ensure maintaining adequate ambient conditions for temperature and ventilation.

D. For applications visible on completion of Project, repair substrates to remove surface imperfections that could affect uniformity of texture and thickness in finished surface of fireproofing. Remove minor projections and fill voids that would telegraph through fire-resistive products after application.

3.2 INSTALLATION, GENERAL

A. Comply with intumescent fireproofing manufacturer's instructions for mixing materials, application procedures, and types of equipment used to convey and spray on fireproofing materials; as applicable to the particular conditions of installation and as required to achieve fire-resistance ratings indicated.

B. Apply intumescent fireproofing that is identical to products tested as specified in Part 1 under "Test Reports" in "Submittals" article, with respect to rate of application, use of primers, topcoats, troweling, or other materials and procedures affecting test results.

C. Coordinate application of fireproofing with other construction to minimize need to cut or remove fireproofing.

1. Do not begin applying fireproofing until clips, hangers, supports, sleeves, and other items penetrating fireproofing are in place.
2. Defer installing ducts, piping, and other items that would interfere with applying fireproofing until application of fireproofing is completed.

D. Install auxiliary materials as required, as detailed, and according to fire-resistance design and fireproofing manufacturer's written recommendations for conditions of exposure and intended use. For auxiliary materials, use attachment and anchorage devices of type recommended in writing by fireproofing manufacturer.

E. Coat substrates with primer prior to applying fireproofing as recommended by fireproofing manufacturer for material and application indicated.

F. Apply fireproofing materials by sprayed-on method to maximum extent possible.

3.3 INSTALLING INTUMESCENT FIREPROOFING

A. Apply intumescent fireproofing in thicknesses and densities required to achieve fire-resistance ratings designated for each condition.

B. Provide a uniform smooth to orange peel finish complying with description indicated for type of material and matching finish approved for field-erected mockup.

C. Apply intumescent mastic fireproofing as follows:

1. Install reinforcing fabric where indicated or required.

Select first or second subparagraph below to meet requirements for Project. Second option is more stringent and, therefore, more costly.

2. Finish: Even spray-textured finish produced by lightly rolling flat surfaces of fireproofed members to smooth out surface irregularities and to seal in surface fibers.
3. Finish: Spray applied with airless equipment with sanding and hand tooling toe be implemented as necessary to ac
4. Sand completed application to provide smooth surface appearance free of surface irregularities, orange peel and textures.

3.4 FIELD QUALITY CONTROL

A. Testing Agency: A qualified independent testing agency employed and paid by Owner will perform field quality-control testing.

B. Extent and Testing Methodology: Testing of completed fireproofing will take place in successive stages in areas of extent described below; do not proceed with fireproofing of next area until test results for previously completed fireproofing show compliance with requirements.

1. Within each area, testing agency will randomly select two structural member of each type (primary beam, secondary beam, joist, truss, and column) and test fireproofing as follows:

a. For thickness per SSPC-PA2, Measurement of Dry Paint Thickness with Magnetic Gauges.

b. For density per ASTM E605 or AWCI Technical Manual 12-B.

c. For bond strength per ASTM E736. If surfaces of structural steel receiving fireproofing are primed or otherwise painted for coating

materials, perform series of bond tests specified in UL's "Fire Resistance Directory." Provide bond strength indicated in referenced UL fire-resistance criteria, but not less than 150 lb per sq. ft. minimum.

C. Testing agency will report test results promptly and in writing to Contractor and Architect.

D. Remove and replace fireproofing where test results indicate that it does not comply with specified requirements for cohesion and adhesion or for density or both.

E. Apply additional fireproofing per manufacturer's directions where test results indicate that the thickness does not comply with specified requirements.

F. Additional Testing: Where fireproofing is removed and replaced or repaired, additional testing will be performed to determine compliance with specified requirements.

3.5 CLEANING, REPAIR, AND PROTECTION

A. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material over-spray and fall-out from surfaces of other construction and clean exposed surfaces to remove evidence of soiling.

B. Cure fireproofing materials according to fireproofing manufacturer's recommendations to prevent premature drying.

C. Protect fireproofing, according to advice of fireproofing manufacturer and Installer, from damage resulting from construction operations or other causes so that fireproofing will be without damage or deterioration at time of Substantial Completion.

D. Coordinate installation of fireproofing with other construction to minimize the need to cut or remove fireproofing. As installation of other construction proceeds, inspect fireproofing and patch any areas where fireproofing was removed or damaged.

E. Repair or replace work that has not been successfully protected.

END OF SECTION 07 81 23

SECTION 08 71 00 – DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Automatic operators.
4. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “ Aluminum Doors and Frames”.
3. Division 08 Section “Flush Wood Doors”.
4. Division 08 Section “Sound Control Hollow Metal Door Assemblies”.
5. Division 08 Section “Sound Control Wood Door Assemblies”.
6. Division 08 Section “Aluminum-Framed Entrances.”

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. UL/ULC and CSA C22.2 – Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
8. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards:

1. ANSI/BHMA Certified Product Standards - A156 Series
2. UL10C – Positive Pressure Fire Tests of Door Assemblies

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:

a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
b. Complete (risers, point-to-point) access control system block wiring diagrams.
c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Proof of Certification: Provide copy of manufacturer(s) official certification or accreditation document indicating proof of status as a qualified and authorized provider of the primary Integrated Wiegand Access Control Products.

E. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

F. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

D. Integrated Wiegand, Wireless, and IP-Enabled Access Control Products Supplier Qualifications: Integrated access control products and accessories are required to be supplied and installed through current members of the ASSA ABLOY "Authorized Channel Partner" (ACP) and "Certified Integrator" (CI) programs. Suppliers are to be factory trained, certified prior to project bid, and a direct purchaser of the specified product. Installers are to be factory trained, certified

prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project.

E. Automatic Operator Supplier Qualifications: Power operator products and accessories are required to be supplied and installed through current members of the manufacturer's "Power Operator Preferred Installer" program. Suppliers are to be factory trained, certified, and a direct purchaser of the specified power operators and be responsible for the installation and maintenance of the units and accessories indicated for the Project.

F. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

G. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

J. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Ten years for mortise locks and latches.

2. Five years for exit hardware.
3. Five years for manual overhead door closer bodies.
4. Twenty five years for manual overhead door closer bodies.
5. Five years for motorized electric latch retraction exit devices.
6. Two years for electromechanical door hardware.

1.8 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Cam Lift Hinges: Where specified provide hinges that move the door up and then lower it to create a tight seal when the door is closed.

6. Manufacturers:

a. Bommer Industries (BO) - LB Series.
b. Hager Companies (HA) - CB Series.
c. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - TA Series.

B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:

a. Ives (IV).
b. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
c. Stanley Hardware (ST).

2.3 POWER TRANSFER DEVICES

A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

a. Hager Companies (HA) - ETW-QC (# wires) Option.
b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC (# wires) Option.

B. Electrified Quick Connect Continuous Geared Transfer Hinges: Provide electrified transfer continuous geared hinges with a 12" removable service panel cutout accessible without de-mounting door from the frame. Furnish with Molex™ standardized plug connectors with sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

   a. Bommer Industries (BO) - SER-QC (# of wires) Option.
   b. Ives (IV) – TWP-CON Option.
   c. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE) - SER-QC (# wires) Option.

C. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

   a. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE) – EL-CEPT Series.
   b. Securitron (SU) - EL-CEPT Series.
   c. Von Duprin (VD) - EPT-10 Series.

D. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

   a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
   b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

   a. Hager Companies (HA) - Quick Connect.
   b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) – QC-C Series.

2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

5. Manufacturers:

a. Door Controls International (DC).
b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
c. Trimco (TC).

B. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Manufacturers:

a. Hiawatha, Inc. (HI).
b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
c. Trimco (TC).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinders: Original manufacturer cylinders complying with the following:

1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.

4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
5. Keyway: Manufacturer's Standard.

D. Patented Cylinders: ANSI/BHMA A156.5, Grade 1, certified cylinders employing a utility patented and restricted keyway requiring the use of patented controlled keys. Provide bump resistant, fixed core cylinders as standard with solid recessed cylinder collars. Cylinders are to be factory keyed where permanent keying records will be established and maintained.

1. Provide a 6 pin multi-level master key system comprised of patented controlled keys and security and high security cylinders operated by one (1) key of the highest level. Geographical exclusivity to be provided for all security and high security cylinders and UL437 certification where specified.

   a. Level 1 Cylinders: Provide utility patented controlled keyway cylinders that are furnished with patented keys available only from authorized distribution.
   b. Level 2 Cylinders: Provide utility patented controlled keyway and side bar locking incorporating unique angled bottom pins for geographical exclusivity. Cylinders constructed to provide protection against bumping and picking.
   c. Level 3 Cylinders: Provide utility patented controlled keyway and side bar locking incorporating unique angled bottom pins for geographical exclusivity. Cylinders to be UL437 certified and constructed to provide protection against bumping, picking, and drilling.
   d. Refer to hardware sets for specified levels.

2. Manufacturers:

   a. Sargent Manufacturing (SA) - Degree Series.
   b. Corbin Russwin (RU) – Access 3 Series.

E. Keying System: Each type of lock and cylinders to be factory keyed.

1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

F. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

G. Construction Keying: Provide construction master keyed cylinders.

H. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

I. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent

markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:

    a. Lund Equipment (LU).
    b. MMF Industries (MM).
    c. Telkee (TK).

J. Key Control Software: Provide one network version of "Key Wizard" branded key management software package that includes one year of technical support and upgrades to software at no charge. Provide factory key system formatted for importing into “Key Wizard” software.

2.6 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Manufacturers:

    a. Corbin Russwin Hardware (RU) – ML2000 Series.
    b. Sargent Manufacturing (SA) – 8200 Series.
    c. Schlage (SC) – L9000 Series.

2.7 INTEGRATED WIEGAND OUTPUT LOCKING DEVICES – MULTI-CLASS READER

A. Integrated Wiegand Output Multi-Class Mortise Locks: Wiegand output ANSI A156.13, Grade 1, mortise lockset with integrated card reader, request-to-exit signaling, door position status switch, and latchbolt monitoring in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle trim, 3/4" deadlocking anti-friction latch, and 1" case-hardened steel deadbolt. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand compatible access control systems. Latchbolt monitoring and door position switch act in conjunction to report door-in-frame (DPS) and door latched (door closed and latched) conditions.
2. Integrated reader supports the following credentials:

    a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.
    b. 13.56 MHz proximity credentials: HID iClass, HID iClass SE, SE for MIFARE Classic, DESFire EV1.
3. 12VDC external power supply required for reader and lock, with optional 24VDC lock solenoid. Fail safe or fail secure options.
4. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.
5. Support end-of-line resistors contained within the lock case.
6. Installation requires only one cable run from the lock to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
7. Installation to include manufacturer's access control panel interface board or module where required for Wiegand output protocol.

8. Manufacturers:

   a. Corbin Russwin (RU) – ML2000 SE-LP10 Series.
   b. Sargent Manufacturing (SA) – M1 8200 Series.

2.8 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.9 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer’s catalog and template book for specific requirements.

3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.

6. Electromechanical Options: Subject to same compliance standards and requirements as mechanical exit devices, electrified devices to be of type and design as specified in hardware sets. Include any specific controllers when conventional power supplies are not sufficient to provide the proper inrush current.

7. Motorized Electric Latch Retraction: Devices with an electric latch retraction feature must use motors which have a maximum current draw of 600mA. Solenoid driven latch retraction is not acceptable.

8. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

   a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
   b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

9. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.

10. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2” wide stiles.

11. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

12. Rail Sizing: Provide exit device rails factory sized for proper door width application.

13. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 certified panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.

   1. Manufacturers:

      a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
      b. Sargent Manufacturing (SA) - 80 Series.
      c. Von Duprin (VD) - 35A/98 XP Series.

C. Tubular Panic Devices: Certified panic devices conforming to ANSI/BHMA A156.3, Grade 1 Certified complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Device to be ADA compliant requiring less than 5 lbs. of force to activate and meet California Building Code (2013) Sec 11B.309.4. Post mounting with optional mechanical dogging. Provide proper fasteners as required by manufacturer to meet application requirements. Provide exit devices on both leaves of pairs of doors.

   1. Style: Exposed vertical rod. 1-1/4” grip diameter with interior operating panic handle in combination with exterior fixed pull handle. Panic mechanism shall be concealed within brass or stainless steel tubing. Optional entrance from exterior by a keyed cylinder.
   2. Configurations (provide as specified):

      a. Full Height Straight Pull.

3. Push/pull operation when dogged from the inside.
4. Latching: Top latching. Reversed, flat, Pullman style. Roller-type latching not acceptable.
5. Engraved "PUSH" signage with optional paint infill and boundary grooves.

6. Manufacturers:

    a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO) - PDU8500 Series

2.10 INTEGRATED WIEGAND OUTPUT EXIT DEVICES – MULTI-CLASS READER

A. Integrated Wiegand Output Multi-Class Exit Hardware: Wiegand output ANSI 156.3 Grade 1 rim, mortise, and vertical rod exit device hardware with integrated proximity card reader, latchbolt and touchbar monitoring, and request-to-exit signaling, in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand compatible access control systems. Inside push bar (request-to-exit) signaling and door position (open/closed status) monitoring (via separately connected DPS).
2. Integrated reader supports the following credentials:

    a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.
    b. 13.56 MHz proximity credentials: HID iClass, HID iClass SE, SE for MIFARE Classic, DESFire EV1.
3. 12VDC external power supply required for reader. 24VDC required for solenoid operated exit trim. Fail safe or fail secure options.
4. Installation requires only one cable run from the exit hardware to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
5. Competitor Alternates Allowed Option: Installation to include manufacturer's access control panel interface board or module where required for Wiegand output protocol.

6. Manufacturers:

    a. Corbin Russwin (RU) – ED5000 SE-LP10 Series.
    b. Sargent Manufacturing (SA) – M1 80 Series.

2.11 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.

4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - DC8000 Series.
b. LCN Closers (LC) - 4040XP Series.
c. Norton Door Controls (NO) – 9500 Series.
d. Sargent Manufacturing (SA) - 281 Series.

C. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Manufacturers:

a. Corbin Russwin Hardware (RU) - DC6000 Series.
b. LCN Closers (LC) - 4040 Series.
c. Sargent Manufacturing (SA) - 351 Series.
d. Norton Door Controls (NO) - 7500 Series.

D. Door Closers, Overhead Concealed (Narrow Profile): ANSI/BHMA 156.4 certified Grade 1 door closers designed for narrow profile frames and doors. Closers to have fully concealed body in the frame head for offset hung applications, with separate and independent valves for closing speed and backcheck adjustments and a decorative cover plate.

1. Manufacturers:

a. Dorma Products (DO) - RTS88 Series.

b. Rixson Door Controls (RF) - 91DCP Series.

2.12 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.

4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:

a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

6. Manufacturers:

a. Hiawatha, Inc. (HI).
b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
c. Trimco (TC).

2.13 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Hiawatha, Inc. (HI).
b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
c. Trimco (TC).

C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

a. Architectural Builders Hardware (AH).
b. Rixson Door Controls (RF).
c. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.14 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. National Guard Products (NG).
2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
3. Reese Enterprises, Inc. (RE).

2.15 ELECTRONIC ACCESSORIES

A. Request-to-Exit Motion Sensor: Request-to-Exit Sensors motion detectors specifically designed for detecting exiting through a door from the secure area to a non-secure area. Include built-in timers (up to 60 second adjustable timing), door monitor with sounder alert, internal vertical

pointability coverage, 12VDC or 24VDC power and selectable relay trigger with fail safe/fail secure modes.

1. Manufacturers:

   a. Alarm Controls (AK) - SREX Series.
   b. Security Door Controls (SD) - MD-31D Series.
   c. Securitron (SU) - XMS Series.

B. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.

1. Manufacturers:

   a. Sargent Manufacturing (SA) – 3280 Series.
   b. Security Door Controls (SD) - DPS Series.
   c. Securitron (SU) - DPS Series.

C. Switching Power Supplies: Provide power supplies with either single or dual voltage configurations at 12 or 24VDC. Power supplies shall have battery backup function with an integrated battery charging circuit and shall provide capability for power distribution, direct lock control and Fire Alarm Interface (FAI) through add on modules. Power supplies shall be expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs.

1. Manufacturers:

   a. Securitron (SU) - AQD Series.

2.16 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.17 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Integrated Wiegand access control products are required to be installed through current members of the ASSA ABLOY "Certified Integrator" (CI) program.

D. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Section "Closeout Procedures" for project punch and reporting requirements including compliance with approved submittals and verification door hardware is properly installed, operating and adjusted.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate selection for the material and application.

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. RO - Rockwood
4. RU - Corbin Russwin
5. FO - Folger Adam
6. RF - Rixson
7. NO - Norton
8. OT - Other
9. SU - Securitron

Hardware Sets

Set: 1.0

Doors: 1101A
Description: EXT ALUM PR - CR - PDU - AO

2	Continuous Hinge	CFM__SLF-HD1		PE	
1	Storefront Panic Device - Keyed	PDU8500-3 04	US32D	RO	⚡
1	Storefront Panic Device	PDU8500-3 06	US32D	RO	⚡
1	Cylinder	CR1500/3500 as req'd	626	RU	
1	Electric Strike	ESK-DBL / ESK-MS-DBL - 24D to suit conditions	US32D	RO	⚡
1	SMART Pac Bridge Rectifier	2005M3		FO	
2	Conc Overhead Stop	1-X36	689	RF	
1	Surface Closer	PR9500	689	NO	
1	Automatic Opener	6332	689	NO	⚡
1	Threshold	2005AT x door width		PE	
1	Perimeter Seal	By alum mfgr		OT	
1	Rain Guard	346C x Width of Frame Head		PE	
2	Sweep	315CN x door width		PE	
1	Card Reader	By Security Supplier			
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Door Switch	502		NO	⚡
1	Request to Exit	XMS		SU	⚡
1	Post	530POST	689	NO	⚡
2	Door Position Switch	DPS -M / W- BK		SU	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door normally closed, latched, and secured. During business hours doors are push/pull and actuator cycles power operator. After business hours card reader releases actuator for use of power

operator. Free egress at all times. Coordinate with security and electrical

Set: 2.0

Doors: 1102A
Description: EXT ALUM PR - PDU - AO - DPS

2	Continuous Hinge	CFM__SLF-HD1		PE	
1	Storefront Panic Device - Keyed	PDU8500-3 04	US32D	RO	⚡
1	Storefront Panic Device	PDU8500-3 06	US32D	RO	⚡
1	Cylinder	CR1500/3500 as req'd	626	RU	
1	Electric Strike	ESK-DBL / ESK-MS-DBL - 24D to suit conditions	US32D	RO	⚡
2	Conc Overhead Stop	1-X36	689	RF	
1	Surface Closer	PR9500	689	NO	
1	Drop Plate & Mounting Hardware	As req'd	689	NO	
1	Automatic Opener	6332	689	NO	⚡
1	Threshold	2005AT x door width		PE	
1	Perimeter Seal	By alum mfgr		OT	
1	Rain Guard	346C x Width of Frame Head		PE	
2	Sweep	315CN x door width		PE	
1	Request to Exit	XMS		SU	⚡
2	Door Position Switch	DPS -M / W- BK		SU	⚡
1	Touchless Wave Actuator	700		NO	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Coordinate door operators with electrical.

Set: 3.0

Doors: 0111EX
Description: EXT PR HM - STORAGE LOCKSET - MFB - HO CLOSER - DPS

2	Continuous Hinge	CFM__SLI-HD1		PE	
1	Dust Proof Strike	570	US26D	RO	
2	Manual Flush Bolt	555 / 557 to suit door material (12" & 72" AFF)	US26D	RO	
1	Storeroom Lock	ML2057 133E3 AP	626	RU	
1	Conc Overhead Hold Open	1-X26	689	RF	
1	Surface Closer w Hold Open	UNI9500H	689	NO	
2	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Threshold	2005AT x door width		PE	
1	Rain Guard	346C x Width of Frame Head		PE	
2	Sweep	3452CV x door width		PE	
1	T Astragal	355CPK x door height		PE	

2	Door Position Switch	DPS -M / W- BK		SU	⚡

Notes: Hollow metal frame manufacturer to provide weather stripping in the Thermal Break frame.

Set: 4.0

Doors: 0120EX
Description: EXT HM SGL - CR EXIT - UNI

1	Continuous Hinge	CFM__SLI-HD1 SER		PE	⚡
1	Access Control Rim Exit	ED5200N 133957ET-SELP10 MELR BIPS AP	630	RU	⚡
1	Surface Closer w Stop	UNI9500	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Threshold	2005AT x door width		PE	
1	Rain Guard	346C x Width of Frame Head		PE	
1	Sweep	3452CV x door width		PE	
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

Hollow metal frame manufacturer to provide weather stripping in the Thermal Break frame.

Set: 4.1

Doors: 0117EX
Description: EXT HM SGL - CR LOCKSET - UNI

1	Continuous Hinge	CFM__SLI-HD1 SER		PE	⚡
1	Access Control Mort Lock	ML20606 x SELP10-SEC 133E3 BIPS AP	626	RU	⚡
1	Surface Closer w Stop	UNI9500	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Threshold	2005AT x door width		PE	
1	Rain Guard	346C x Width of Frame Head		PE	
1	Sweep	3452CV x door width		PE	
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

Hollow metal frame manufacturer to provide weather stripping in the Thermal Break frame.

Set: 5.0

Doors: 0109EX, 3109B
Description: EXT HM SGL - STORAGE - UNI - DPS

1	Continuous Hinge	CFM__SLI-HD1		PE	
1	Storeroom Lock	ML2057 133E3 AP	626	RU	
1	Surface Closer w Stop	UNI9500	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Threshold	2005AT x door width		PE	
1	Rain Guard	346C x Width of Frame Head		PE	
1	Sweep	3452CV x door width		PE	
1	Door Position Switch	DPS -M / W- BK		SU	⚡

Notes: Hollow metal frame manufacturer to provide weather stripping in the Thermal Break frame.

Set: 6.0

Doors: 0110EX, ST 03-0 EX
Description: EXT HM SGL - NIGHTLATCH - UNI - DPS

1	Continuous Hinge	CFM__SLI-HD1		PE	
1	Rim Exit, nightlatch	ED5200 K157ET AP	630	RU	
1	Pull	RM201	US32D	RO	
1	Surface Closer w Stop	UNI9500	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Threshold	2005AT x door width		PE	
1	Rain Guard	346C x Width of Frame Head		PE	
1	Sweep	3452CV x door width		PE	
1	Door Position Switch	DPS -M / W- BK		SU	⚡

Notes: Hollow metal frame manufacturer to provide weather stripping in the Thermal Break frame.

Set: 6.1

Doors: 0106G
Description: EXT HM SGL - NIGHTLATCH - UNI

1	Continuous Hinge	CFM__SLI-HD1		PE	
1	Rim Exit, nightlatch	ED5200 K157ET AP	630	RU	
1	Pull	RM201	US32D	RO	
1	Surface Closer w Stop	UNI9500	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Threshold	2005AT x door width		PE	
1	Rain Guard	346C x Width of Frame Head		PE	
1	Sweep	3452CV x door width		PE	
1	Door Position Switch	DPS -M / W- BK		SU	⚡

Notes: Hollow metal frame manufacturer to provide weather stripping in the Thermal Break frame.

Door status monitored.

Set: 6.2

Doors: 1100EX, ST01-1 EX
Description: EXT ALUM SGL - NIGHTLATCH - UNI - DPS

1	Continuous Hinge	CFM__SLF-HD1		PE	
1	Rim Exit, nightlatch	ED5200 K157ET AP	630	RU	
1	Pull	RM201	US32D	RO	
1	Drop Plate & Mounting Hardware	As req'd	689	NO	
1	Surface Closer w Stop	UNI9500	689	NO	
1	Threshold	2005AT x door width		PE	
1	Perimeter Seal	By alum mfgr		OT	
1	Rain Guard	346C x Width of Frame Head		PE	
1	Sweep	315CN x door width		PE	
1	Door Position Switch	DPS -M / W- BK		SU	⚡

Notes: Hollow metal frame manufacturer to provide weather stripping in the Thermal Break frame.

Set: 7.0

Doors: 1101B
Description: ALUM PR - PDU - AO

2	Continuous Hinge	CFM__SLF-HD1		PE	
2	Storefront Panic Device	PDU8500-3 06	US32D	RO	⚡
1	Strike	MSK-DBL	US32D	RO	⚡
2	Conc Overhead Stop	1-X36	689	RF	
1	Surface Closer	PR9500	689	NO	
1	Drop Plate & Mounting Hardware	As req'd	689	NO	
1	Automatic Opener	6332	689	NO	⚡
1	Door Position Switch	DPS -M / W- BK		SU	⚡
2	Touchless Wave Actuator	700		NO	⚡

Notes: Coordinate door operators with electrical.

Set: 7.1

Doors: 1102B, 1102C
Description: ALUM SGL - PDU - AO

1	Continuous Hinge	CFM__SLF-HD1		PE	
1	Storefront Panic Device	PDU8500-3 06	US32D	RO	⚡
1	Strike	MSK-SGL	US32D	RO	⚡
1	Conc Overhead Stop	1-X36	689	RF	
1	Automatic Opener	6332	689	NO	⚡
1	Door Position Switch	DPS -M / W- BK		SU	⚡
2	Touchless Wave Actuator	700		NO	⚡

Notes: Coordinate door operators with electrical.

Set: 8.0

Doors: 3301
Description: PR - STORAGE - MFB - NO CLOSER

6	Hinge, Full Mortise	TA2714	US26D	MK
1	Dust Proof Strike	570	US26D	RO
2	Manual Flush Bolt	555 / 557 to suit door material (12" & 72" AFF)	US26D	RO
1	Storeroom Lock	ML2057 133E3 AP	626	RU
2	Surf Overhead Stop	10-X36	689	RF
2	Silencer	As req'd		RO

Set: 9.0

Doors: 0111
Description: PR - CLASSROOM - MFB - HO CLOSER

6	Hinge, Full Mortise	TA2714	US26D	MK
1	Dust Proof Strike	570	US26D	RO
2	Manual Flush Bolt	555 / 557 to suit door material (12" & 72" AFF)	US26D	RO
1	Classroom Lock	ML2055 133E3 AP	626	RU
1	Conc Overhead Hold Open	1-X26	689	RF
1	Surface Closer w Hold Open	7500H Reg/Par to suit application	689	NO
2	Kick Plate	K1050 10" high BEV CSK	US32D	RO
2	Wall Stop	RM850/860 as req'd	US26D	RO
2	Silencer	As req'd		RO

Set: 10.0

Doors: 1201, 3200A
Description: PR - CVR EXIT - RM PULL - SEALS

8	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
2	CVR Exit, Classroom	ED5860 603F M55 M52 AP	626	RU
2	Offset Door Pull	RM3311-84	US32D	RO
2	Concealed Closer	PH91N	626	RF
2	Kick Plate	K1050 10" high BEV CSK	US32D	RO

2	Wall Stop	RM850/860 as req'd	US26D	RO	
1	Gasketing	S44D (Head & Jambs)		PE	
1	Gasketing	S773BL (Head & Jambs)		PE	
2	Door Bottom	STC411APK x door width		PE	
1	Astragal	351CPK x door height		PE	

Set: 11.0

Doors: 1300A, 2200A, 2300A, 3300A
Description: PR - SVR EXIT - RM PULL - STC

8	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK	
2	SVR Exit, Classroom	ED5470 603F M55 M52 AP	630	RU	
2	Offset Door Pull	RM3311-84	US32D	RO	
2	Concealed Closer	PH91N	626	RF	
2	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
2	Wall Stop	RM850/860 as req'd	US26D	RO	

Notes: Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 12.0

Doors: 2120A, ST 01-1, ST 03-0, ST 03-1, ST 03-2
Description: SGL - CR EXIT - FSAF

2	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Electrified Rated Rim Exit - Fail Safe	ED5200AN 1339603ET-SELP10 BIPS AP	630	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
1	Gasketing	S88D (Head & Jambs)		PE	
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed and latched. Ingress by valid credential. Fail safe tied to fire alarm for simultaneous release, free egress at all times. Coordinate with security and electrical.

Set: 14.0

Doors: 0200A, 2609B, 2610B
Description: SGL - CR LOCKSET - STC

3	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK	
1	Access Control Mort Lock	ML20606 x SELP10-SEC 133E3 BIPS AP	626	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	

1	Wall Stop	RM850/860 as req'd	US26D	RO	
1	Electric Power Transfer	EL-CEPT		SU	⚡
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 15.0

Doors: 0115, 0501A, 0601, 0700B, 0701, 1107, 1602B, 1603B, 1604B, 1702A, 1702B, 1703B, 1705, 2107, 2110C, 2600B, 2600C, 3107
Description: SGL - CR LOCKSET

2	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Access Control Mort Lock	ML20606 x SELP10-SEC 133E3 BIPS AP	626	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
3	Silencer	As req'd		RO	
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

Set: 15.1

Doors: 0300B, 0501B, 0600A, 1609, 1712
Description: SGL - CR LOCKSET(2) - FSAF

2	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Access Control Mort Lock	ML20606 x SELP10-SAF 133E3 BIPS AP	626	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
3	Silencer	As req'd		RO	
1	Card Reader	By Security Supplier			
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡

1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed and latched. Access by valid credential in either direction. Fail safe tied to fire alarm for simultaneous release, free egress at all times. Coordinate with security and electrical.

Set: 15.2

Doors: 1121
Description: SGL TALL - CR LOCKSET(2) - FSAF

3	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Access Control Mort Lock	ML20606 x SELP10-SAF 133E3 BIPS AP	626	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
3	Silencer	As req'd		RO	
1	Card Reader	By Security Supplier			
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed and latched. Access by valid credential in either direction. Fail safe tied to fire alarm for simultaneous release, free egress at all times. Coordinate with security and electrical.

Set: 17.0

Doors: 0120, 0300A, 1602A, 1704, 1800
Description: SGL TALL - CR LOCKSET

3	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Access Control Mort Lock	ML20606 x SELP10-SEC 133E3 BIPS AP	626	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
3	Silencer	As req'd		RO	
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

Set: 19.0

Doors: 1110B, 2110, 3120A
Description: SGL - CR EXIT

2	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Access Control Rim Exit	ED5200N 133957ET-SELP10 MELR BIPS AP	630	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

Set: 19.1

Doors: 1110A, 1110D, 1115, 2110A, 2115, 3110A, 3110B
Description: SGL TALL - CR EXIT

3	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Access Control Rim Exit	ED5200N 133957ET-SELP10 MELR BIPS AP	630	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door is normally closed, latched, and secured. Valid credential for ingress, free egress at all times. Coordinate with security and electrical.

Set: 19.2

Doors: 1110C, 1713, 3120B
Description: SGL TALL - DELAYED EGRESS EXIT

3	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Rim Exit Device, Delayed Egress	ED5200 D 133910ET M93 AP	630	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
1	Card Reader	By Security Supplier			

1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Door Position Switch	DPS -M / W- BK		SU	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door normally closed and latched egress by valid credential. Egress without valid credential activates delayed egress, setting in motion an irreversible 15 second delay. Egress by valid credential bypasses delayed egress. Outside trim shunts delayed egress. Coordinate with security and electrical.

Set: 19.3

Doors: 1300B, 1300C, 1714, 1715, 2300B, 2300C, 3200B, 3200C, 3300B
Description: SGL - DELAYED EGRESS EXIT - STC

3	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK	
1	Rim Exit Device, Delayed Egress	ED5200 D 133910ET M93 AP	630	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
1	Electric Power Transfer	EL-CEPT		SU	⚡
1	Card Reader	By Security Supplier			
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Door Position Switch	DPS -M / W- BK		SU	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door normally closed and latched egress by valid credential. Egress without valid credential activates delayed egress, setting in motion an irreversible 15 second delay. Egress by valid credential bypasses delayed egress. Outside trim shunts delayed egress. Coordinate with security and electrical.

Set: 19.4

Doors: 1200B, 1200C
Description: SGL - DELAYED EGRESS EXIT

2	Hinge, Full Mortise	TA2714	US26D	MK	
1	Hinge, Full Mortise	TA2714 QC	US26D	MK	⚡
1	Rim Exit Device, Delayed Egress	ED5200 D 133910ET M93 AP	630	RU	⚡
1	Surface Closer	7500 Reg/Par to suit application	689	NO	
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO	
1	Wall Stop	RM850/860 as req'd	US26D	RO	
1	Card Reader	By Security Supplier			
1	ElectroLynx Harness (door)	QC-C**** x req'd length		MK	⚡
1	ElectroLynx Harness (frame)	QC-C1500P		MK	⚡
1	Door Position Switch	DPS -M / W- BK		SU	⚡
1	Power Supply	AQD as req'd		SU	⚡

Notes: Door normally closed and latched egress by valid credential. Egress without valid credential activates delayed egress, setting in motion an irreversible 15 second delay. Egress by valid credential bypasses delayed egress. Outside trim shunts delayed egress. Coordinate with security and electrical.

Set: 21.0

Doors: 0105A, 0113, 0114, 0118, 0506, 0515, 0700A, 1108, 1117, 1122, 1601, 1613, 1701, 1706, 2108, 2116, 2117, 2613, 2614, 2629, 3108, 3117
Description: SGL - STORAGE - CLOSER

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom Lock	ML2057 133E3 AP	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
3	Silencer	As req'd		RO

Set: 21.2

Doors: 3116
Description: SGL RATED - STORAGE - CLOSER

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom Lock	ML2057 133E3 AP	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Set: 22.0

Doors: 2301, 3110
Description: SGL TALL - STORAGE - CLOSER

4	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom Lock	ML2057 133E3 AP	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Set: 23.0

Doors: 0108, 0109, 0204, 1109, 1111, 2109, 2620, 2621, 3109A
Description: SGL - STORAGE - CLOSER - STC

3	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK
1	Storeroom Lock	ML2057 133E3 AP	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO

Notes: Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 23.1

Doors: 0205
Description: SGL - STORAGE - CLOSER - STC - OHS

3	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK
1	Storeroom Lock	ML2057 133E3 AP	626	RU
1	Conc Overhead Stop	1-X36	689	RF
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO

Notes: Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 24.0

Doors: ST 01-2, ST 01-3
Description: SGL RATED - PASSAGE EXIT

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Fire Rated Rim Exit, passage	ED5200A 133910ET	630	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Notes:

Set: 24.3

Doors: ST 02-0, ST 02-2
Description: SGL RATED - TALL - PASSAGE EXIT

4	Hinge, Full Mortise	TA2714	US26D	MK
1	Fire Rated Rim Exit, passage	ED5200A 133910ET	630	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Notes:

Set: 26.0

Doors: ST 02-1, ST 02-3
Description: SGL WIDE/TALL - PASSAGE EXIT

4	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Fire Rated Rim Exit, passage	ED5200A 133910ET	630	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO

1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Notes:

Set: 27.0

Doors: 1510, 1517, 2510, 2517, 3510, 3517
Description: SGL - STORAGE - NO CLOSER

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Storeroom Lock	ML2057 133E3 AP	626	RU
1	Wall Stop	RM850/860 as req'd	US26D	RO
3	Silencer	As req'd		RO

Set: 28.0

Doors: 0106, 0110
Description: SGL - STORAGE EXIT - CLOSER

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Rim Exit, Storeroom	ED5200 133959ET AP	630	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Set: 30.0

Doors: 0112, 0302, 0303, 0304, 0502, 0504, 0508, 0509, 0510, 0511, 0512, 0513, 0514, 1508, 1509, 1515, 1516, 1610, 1611, 1612, 1707, 1708, 1801, 2508, 2509, 2515, 2516, 2616, 2617, 2622, 2623, 2624, 2625, 2626, 2627, 2642, 3508, 3509, 3515, 3516
Description: SGL - OFFICE - NO CLOSER

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Office Lock	ML2051 133E3 AP	626	RU
1	Wall Stop	RM850/860 as req'd	US26D	RO
3	Silencer	As req'd		RO

Set: 31.0

Doors: 0500, 1603A
Description: SGL TALL - OFFICE - NO CLOSER

4	Hinge, Full Mortise	TA2714	US26D	MK
1	Office Lock	ML2051 133E3 AP	626	RU
1	Wall Stop	RM850/860 as req'd	US26D	RO
3	Silencer	As req'd		RO

Set: 32.0

Doors: 1507, 1514, 1606, 1607, 1709, 1710, 2111, 2507, 2514, 2618, 2619, 2631, 2632, 2633, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2643, 2644, 3111, 3507, 3514

Description: SGL - OFFICE - NO CLOSER - STC

3	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK
1	Office Lock	ML2051 133E3 AP	626	RU
1	Wall Stop	RM850/860 as req'd	US26D	RO

Notes: Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 33.2

Doors: 2600A
Description: ALUM SGL - CLASSROOM EXIT - CPS

1	Continuous Hinge	CFM__SLF-HD1		PE
1	Rim Exit, classroom	ED5200 133955ET AP	630	RU
1	Drop Plate & Mounting Hardware	As req'd	689	NO
1	Surface Closer w Stop	UNI7500	689	NO

Set: 34.0

Doors: 0107, 1504, 1511, 2504, 2511, 2607, 2608, 3504, 3511
Description: SGL - CLASSROOM - CLOSER

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	ML2055 133E3 AP	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Silencer	As req'd		RO

Set: 35.0

Doors: 1604A, 1703A
Description: SGL TALL - CLASSROOM - CLOSER

4	Hinge, Full Mortise	TA2714	US26D	MK
1	Classroom Lock	ML2055 133E3 AP	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
3	Silencer	As req'd		RO

Set: 36.0

Doors: 0201, 1400, 1401, 1402, 1403, 1404, 1405, 1500, 1502, 2400, 2401, 2402, 2403, 2404, 2405, 2500, 2502, 2602, 2604A, 2605, 2609A, 2610A, 3400, 3401, 3402, 3403, 3404, 3405, 3500, 3502
Description: SGL - CLASSROOM - CLOSER - STC

3	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK
1	Classroom Lock	ML2055 133E3 AP	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO

1	Wall Stop	RM850/860 as req'd	US26D	RO

Notes: Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 37.0

Doors: 0505, 0507, 1608, 1711, 2105, 2634, 3105
Description: SGL - PASSAGE - CLOSER

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Passage Latch	ML2010 133E3	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
3	Silencer	As req'd		RO

Set: 37.1

Doors: 0105, 1106
Description: SGL WIDE - PASSAGE - CLOSER

4	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Passage Latch	ML2010 133E3	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Set: 37.2

Doors: 2106, 3106
Description: SGL WIDE - PASSAGE - CLOSER - MHO

4	Hinge, Full Mortise, Hvy Wt	T4A3786	US26D	MK
1	Passage Latch	ML2010 133E3	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Electromagnetic Holder	998M	689	RF
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Notes: Doors normally held open. Mag hold open tied to fire alarm.

Set: 38.0

Doors: 1112, 1113, 2112, 2113, 2611, 3112, 3113
Description: SGL - PASSAGE - CLOSER - STC

3	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK
1	Passage Latch	ML2010 133E3	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO

1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO

Notes: Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 39.0

Doors: 2604B, 2604C
Description: SGL - PASSAGE - NO CLOSER - STC

3	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK
1	Passage Latch	ML2010 133E3	626	RU
1	Wall Stop	RM850/860 as req'd	US26D	RO

Notes: Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 40.0

Doors: 0305, 1501, 1503, 1506, 1513, 2501, 2503, 2506, 2513, 3501, 3503, 3506, 3513
Description: SGL - PRIVACY - CLOSER

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Privacy Lock w Indicator	ML2030 133E3 M19V	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
1	Gasketing	S88D (Head & Jambs)		PE

Set: 40.1

Doors: 0202, 0203
Description: SGL TALL - PRIVACY - CLOSER - STC

4	Hinge, Cam Lift	By STC Mfgr - Qty as req'd	US32D	MK
1	Privacy Lock w Indicator	ML2030 133E3 M19V	626	RU
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO

Notes: Coordinate sound seals, threshold and automatic door bottom for scheduled STC rating.

Set: 41.0

Doors: 0101, 0102, 0103, 0104, 0503, 1101, 1102, 1103, 1104, 1105, 2103, 2104, 3103, 3104
Description: SGL - PUSH - RM PULL

3	Hinge, Full Mortise	TA2714	US26D	MK
1	Door Pull	RM3301-12	US32D	RO
1	Push Plate	70E	US32D	RO
1	Surface Closer	7500 Reg/Par to suit application	689	NO

1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
3	Silencer	As req'd		RO

Set: 41.1

Doors: 2101, 2102, 3101, 3102
Description: SGL TALL - PUSH - RM PULL

4	Hinge, Full Mortise	TA2714	US26D	MK
1	Door Pull	RM3301-12	US32D	RO
1	Push Plate	70E	US32D	RO
1	Surface Closer	7500 Reg/Par to suit application	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Wall Stop	RM850/860 as req'd	US26D	RO
3	Silencer	As req'd		RO

Set: 42.0

1	Continuous Hinge	CFM__SLF-HD1		PE
1	Security Institution Lock	ML2092 133E3 AP	626	RU
1	Surface Closer	PR9500	689	NO
1	Kick Plate	K1050 10" high BEV CSK	US32D	RO
1	Threshold	2005AT x door width		PE
1	Gasketing	S88D (Head & Jambs)		PE
1	Rain Guard	346C x Width of Frame Head		PE
1	Sweep	315CN x door width		PE

Set: 43.0

Doors: 1120

2	Hinge, Concealed	MK100	Satin Chrome	MK
1	Rim Exit Device, Exit Only	ED4200 EO	630	RU
1	Wall Stop	RM850/860 as req'd	US26D	RO

Notes: Balance of hardware by mfr - coordinate.

END OF SECTION 08 71 00

SECTION 08 71 13 - AUTOMATIC DOOR OPERATORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Low energy automatic door operators for swinging doors.

B. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames.”
2. Division 08 Section “Aluminum Doors and Frames.”
3. Division 08 Section “Door Hardware.”
4. Division 26 Sections

A. Codes and Standards: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ANSI/BHMA A156.4 - Door Controls, Door Closers.
3. ANSI/BHMA A156.19 - Power Assist and Low-Energy Power Operated Doors.
4. ICC/IBC - International Building Code.
5. NFPA 70 - National Electrical Code.
6. NFPA 80 - Fire Doors and Windows.
7. NFPA 101 - Life Safety Code.
8. NFPA 105 - Installation of Smoke Door Assemblies.
9. UL/ULC and CSA C22.2 – Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
10. UL 325 - Door, Drapery, Gate, Louver, and Window Operators and Systems.
11. State Building Codes, Local Amendments.

1.3 PERFORMANCE REQUIREMENTS

A. Automatic door operators to be used on interior or exterior doors; up to 200 pounds (91 kg) weight and maximum door width of 48" (1219 mm).

1. Auto door operator capable of operating within temperature ranges of -22°F (-30°C) and 122°F (50°C).

1.4 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, and finishes for automatic door operators, including activation devices. Include operating characteristics, electrical characteristics, and furnished accessories.

B. Shop Drawings: Include details and attachments to other work.

1. Include locations and elevations of each unique entrance showing activation devices.
2. Indicate required clearances, components, and location and size of field connections.
3. Wiring Diagrams: For power, signal, and activation wiring.

C. Qualification Data: Provide copy of manufacturer's official certification or accreditation document indicating proof of status as a qualified and authorized installer of automatic door operators and accessories.

D. Operating and Maintenance Manuals: Provide manufacturer's operating and maintenance manual for each item comprising the automatic door operator installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturer and Installer providing the operators and installation. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.

E. Warranties and Maintenance: Special warranties and maintenance agreements specified in this Section.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation and maintenance of units required for this Project.

B. Certified Installer Qualifications: Locally certified ASSA ABLOY Power Operator Preferred Installer required for the installation and maintenance of the automatic door operator units and accessories indicated for the Project.

C. Source Limitations: Obtain automatic door operators, including activation devices, from single source, qualified supplier unless otherwise indicated.

D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a testing agency, and marked for intended location and application.

E. Exit Door Requirements: Comply with requirements of authorities having jurisdiction for doors with automatic door operators serving as a component of a required means of egress.

F. Fire Rated Door Assemblies: Provide operators for fire rated door assemblies that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction for use on types and sizes of labeled fire doors required.

G. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and the procedures for receiving, handling, and installing automatic door operators.

1. Prior to installation of automatic door operators, arrange for certified Installer's representative to conduct a project specific meeting to review the installation and maintenance of their respective products. Project meeting to be attended by representatives of related trades furnishing and installing the aluminum, hollow metal and wood doors sections.
2. Review and finalize construction schedule and verify availability of materials.

1.6 COORDINATION

A. Electrical Systems Coordination: Coordinate the layout and installation of scheduled automatic door operators and related activation devices, with required connections to source power junction boxes, remote power supplies, access control equipment, detection and monitoring hardware, and fire alarm system.

B. Templates: Obtain and distribute to the parties involved, templates for doors, frames, operators, and other work specified to be factory prepared and reinforced for installing automatic door operators. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing automatic door operators to comply with indicated requirements.

C. Door and Frame Preparation: Related Division 08 Sections (Steel, Aluminum and Wood) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified automatic door operators without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Special Warranty: Written warranty, executed by manufacturer, agreeing to repair or replace components of automatic door operators that fail in materials or workmanship within specified warranty period after final acceptance by Owner. Failures include, but are not limited to, the following:

1. Faulty or sporadic operation of automatic door operator, including activation and safety devices.
2. Deterioration of metals, metal finishes, and other materials beyond normal weathering or use.

C. Special Warranty Period: Two years from date of Substantial Completion.

D. Provide extended warranty from defects in material or workmanship under normal use for a period of 3 years from the date of substantial completion for units installed by a certified ASSA ABLOY Power Operator Preferred Installer in accordance with the manufacturer's written warranty certificate.

1.8 MAINTENANCE SERVICE

A. Maintenance Service: Beginning at Substantial Completion, and running concurrent with the specified warranty period, provide continuous (6) months full maintenance by skilled employees of automatic door operator Installer. Include planned and preventive maintenance, repair or

replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door operation. Provide parts and supplies the same as those used in the manufacture and installation of original equipment.

B. Extended Maintenance Support and Service Agreement: Submit for Owner's consideration an optional extended Service Agreement for the installed automatic door operator system. The extended Service Agreement is considered elective and is without manufacturer's requirement stipulating mandatory coverage for owner and/or vendor system support.

1. A published copy of this agreement to be included with the submittal package
2. Support for the installed automatic door operator system is provided through the vendor under a specified, limited 24 hour support program.
3. Automatic door operators and components are to be available on a one-day turn around time frame from the vendor.

PART 2 - PRODUCTS

2.1 ELECTROMECHANICAL DOOR OPERATORS

A. General: Provide low energy operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for compliance with UL 325. Coordinate operator mechanisms with door operation, hinges, and activation devices.

1. Fire-Rated Doors: Provide door operators for fire-rated door assemblies that comply with NFPA 80 for fire-rated door components and are listed and labeled by a qualified testing agency.

B. Standard: Certified ANSI/BHMA A156.19.

C. Performance Requirements:

1. Opening Force if Power Fails: Not more than 15 lbf required to release a latch if provided, not more than 30 lbf required to manually set door in motion, and not more than 15 lbf required to fully open door.
2. Entrapment Protection: Not more than 15 lbf required to prevent stopped door from closing or opening.

D. Configuration: Surface mounted or in-ground as required. Door operators to control single swinging and pair of swinging doors.

E. Operation: Power opening and spring closing operation capable of meeting ANSI A117.1 accessibility guideline. Provide time delay for door to remain open before initiating closing cycle as required by ANSI/BHMA A156.19.

F. Features: Operator units to have full feature adjustments for door opening and closing force and speed, backcheck, motor assist acceleration from 0 to 30 seconds, time delay, vestibule interface delay, obstruction recycle, and hold open time from 0 up to 30 seconds.

G. Provide outputs and relays on board the operator to allow for coordination of exit device latch retraction, electric strikes, magnetic locks, card readers, safety and motion sensors and specified auxiliary contacts.

H. Brackets and Reinforcements: Manufacturer's standard, fabricated from aluminum with nonferrous shims for aligning system components.

I. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Norton Door Controls (NO) - 6300 Series.

2.2 ACTIVATION DEVICES

A. General: Provide activation devices in accordance with ANSI/BHMA A156.19 standard, for condition of exposure indicated and for long term, maintenance free operation under normal traffic load operation. Coordinate activation control with electrified hardware and access control interfaces. Activation switches are standard SPST, with optional DPDT availability.

B. Touch Less Wall Switch: Momentary contact door control switch with movement required activation. Single or double gang box junction box mounting.

   1. Doppler radar sensor.
   2. Mounting Location: As indicated on Drawings.
   3. Manufacturers:

      a. BEA Sensors (BS) – MS Series.
      b. Norton Door Controls (NO) – 700 Series.
      c. Securitron (SU) – WSS Series.

C. Key Switch: Key controlled actuator device enclosed in single or double gang junction box.

   1. Faceplate Material: Stainless steel.
   2. Functions: On-off, maintained contact.
   3. Two-way Mounting: Recess or surface mounting as indicated on Drawings.
   4. Manufacturers:

      a. Alarm Controls (AK) – MCK Series.
      b. Securitron (SU) – MKA Series.
      c. Wikk Industries (WI) – KS Series.

D. Bollard Switch Post: Manufacturer’s standard. Surface Mounted (above ground). Prepared for indicated switch types.

   1. Where required, prepare bollard posts for card readers.
   2. Manufacturers:

      a. Norton Door Controls (NO) – 500POST Series.
      b. Wikk Industries (WI) – BPS SM-PRP36 Series.

2.3 ACCESSORIES

A. Signage: As required by cited ANSI/BHMA A156.19 standard for the type of operator.

2.4 FINISHES

A. Standard: Designations used to indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware. Units will be sprayed with a combination of waterborne acrylic and polyester powder coat.

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances, door and frame preparation and reinforcements, power connections, electrical systems interfaces, and other conditions affecting performance of automatic door operators.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 INSTALLATION

A. General: Install complete automatic door operators according to manufacturer's written instructions and ANSI/BHMA A156;19 standard, including activation devices, control wiring, remote power units if any, connection to the building's fire alarm system, and required signage.

B. Power Connection: Reference Division 26 "Electrical" Sections for connection to electrical power distribution system.

C. Access Control System: Coordinate connections and operation with access control system

D. Signage: Apply signage as required by ANSI/BHMA A156.19 standard for type of door operator and direction of pedestrian travel.

3.3 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Section "Closeout Procedures" for project punch and reporting requirements including compliance with approved submittals and verification door hardware is properly installed, operating and adjusted.

3.4 ADJUSTING

A. Comply with requirements of ANSI/BHMA A156.19 standard. Adjust automatic door operators to function smoothly, and lubricate as recommended by manufacturer.

3.5 DEMONSTRATION

A. Certified Installer's representative to provide eight (8) hours of training to Owner's maintenance personnel in the proper adjustment, operation, and maintenance of automatic door operators.

END OF SECTION 08 71 13

SECTION 111900 - GENERAL PROVISIONS FOR DETENTION WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the responsibilities for a single-source Detention Equipment Contractor for Detention Work.

B. Detention Work required by, but not specified in, this Section work includes the following:

1. Refer to RFP Detention Equipment Contractor work summary checklist.

1.3 DESCRIPTION OF WORK

A. General Contractor:
1. The General Contractor shall employ a single pre-approved Detention Equipment Contractor having met all the requirements listed in this Section. The General Contractor shall list his Detention Equipment Contractor on the bid form. Contracting by the General Contractor for separate portions of work under Sections 11 19 00 through 11 19 99 is prohibited.

B. Detention Equipment Contractor (DEC):
1. The Detention Equipment Contractor shall be responsible for submitting an aggregate bid to the General Contractor for all Division 11 Detention and Security work described herein and elsewhere in the Contract Documents.
2. The Detention Equipment Contractor shall be responsible for the interfacing and integration of products and systems with the General Contractor and the Security Electronics Contractor (SEC) to ensure that the entire work of this project will be carried out in an orderly, complete and coordinated fashion.
3. The Detention Equipment Contractor shall provide a full time Superintendent to supervise the work in this section. The Superintendent shall be at the site when the Detention Equipment Contractor's work is being performed at the site.

1.4 QUALITY ASSURANCE

A. The Detention Equipment Contractor (DEC) shall furnish detention equipment as described in these sections, and shall coordinate this equipment with his manufacturers, fabricators, installers, and with work by other subcontractors working on the project. Questions on the detention equipment must be directed to the Detention Equipment Contractor before being directed to the General Contractor, Architect/Engineer or Owner.

B. Acceptable Pre-qualified Detention Equipment Contractors:
1. Pauly Jail; Noblesville, IN 46062 317/580-0857
2. CML Security; Erie, CO 80516 720/466-3650
~~3. Sweeper Metal Fabricators, Corp.; Drumright, OK 74030; 918/352-9150~~
3. Cornerstone Detention Products, Inc.; Decatur, AL 35601; 256/355-2396
4. Noah Detention Construction; Niceville, FL 32578; 650/279-3257
~~4.~~ S3 – Sustainable Security Solutions; San Antonio TX 78212; 210/714-3015

C. Any other Detention Equipment Contractors who intend to submit a bid on this section of the Specifications shall submit the following data to the Architect in writing twenty (20) days prior to bid date and shall be approved by addendum or other official project notification not later than ten (10) days prior to bid date. Verbal approval will not satisfy this requirement. Grounds for disqualification shall exist if it is proven that the information submitted is inaccurate or, in the opinion of the Architect, does not satisfy the requirements.

1. Contractor Qualification Statement AIA-305A.

2. Provide a narrative and historical description of the firm from inception, including history of ownership, partnership, incorporation, and/or other organizational information. Include information on the growth of the firm over time to include the number of employees, relocation(s) of the firm, major production equipment purchases and replacements. Use only the current corporate or business entity, intending on bidding and performing the work, should it be awarded the work.

3. List of projects under construction. The list shall include the following information for each project:
   a. Name and location of installation
   b. General Project Description including total number of cells and total project square footage
   c. User Agency or Government entity Name, Address, phone number and email address
   d. Name of Owner's representative, phone number and email address
   e. Name of Architect/Engineer, phone number and email address
   f. Name of General Contractor, phone number and email address
   g. Square footage / scope of products and services provided by your company
   h. Contract amount
   i. Percent Complete
   j. Scheduled completion date
   k. Project delivery method (design/bid/build, design/build, CM at Risk, or other)
   l. Name(s) of the key installation foremen that are employees of your company
   m. Date of final completion and occupancy

4. Evidence that DEC has a minimum of ten (10) years' experience in successfully completing projects of equal scope, complexity, and using products similar to those specified herein. Such evidence shall consists of a list of not less than ten (10) projects which have been in actual and satisfactory use for not less than five (5) years and five (5) projects that utilize similar hardware as specified for this project and that have been in use for a minimum of three (3) years. Provide a list of contacts at each facility, addresses and phone numbers. The list shall include the following information for each project:
   a. Name and location of installation
   b. General Project Description including total number of cells and total project square footage

c. User Agency or Government entity Name, Address, phone number and email address
d. Date of occupancy by Owner
e. Name of Owner's representative, phone number and email address
f. Name of Architect/Engineer, phone number and email address
g. Name of General Contractor, phone number and email address
h. Square footage / scope of products and services provided by your company
i. Contract amount
j. Percentage of the cost of the work performed with your own forces.
k. Project delivery method (design/bid/build, design/build, CM at Risk, or other)
l. Name(s) of the key installation foremen that are employees of your company
m. Date of final completion and occupancy

5. Resume of proposed personnel in DEC's organization that have at least five (5) years' experience in the 1) design, 2) fabrication, 3) installation of equipment comparable in quality and type to that required herein and 4) a listing of not less than five (5) projects, comparable in quality and type to this project that have been executed by the proposed project personnel. Resume shall address each of the four items above for each person. Resume shall list the following for each person:

   a. Number of years as a full-time employee of the DEC company
   b. Number of years of Jail / Prison experience
   c. Complete training program for iron workers (if involved with equipment installation).

6. Copy of Contractors License within the State of the project being bid.

7. Submit a listing of all projects in which the company is presently or has been involved in litigation, as either plaintiff or defendant within the past five (5) years, and the status thereof. In addition to this statement, please respond to the following questions "a" through "h". For any "YES" answer to the following questions, please attach a separate sheet, which provides a brief explanation of the facts, names of the parties involved, dollar amount being claimed from your firm, and the present status of the case. Attach explanations of any lawsuit alleging negligent of defective work, or breach of contract on part of the firm. Do not include lien matters, automobile accident cases, or workman's compensation cases:

   a. Has a court issued a judgment of $100,000 or more against the firm or its predecessors in the past five (5) years?
      YES / NO

   b. Has the firm or its predecessors been party to the settlement of a lawsuit with a potential value of $100,000 or more?
      YES / NO

   c. Is the firm or its predecessors currently a party to a pending lawsuit with a potential value of $100,000 or more?
      YES / NO

   d. Within the past five years, has any key person, the firm or its predecessors defaulted on a loan?
      YES / NO

e. Has the firm or its predecessors or any person of the firm or its predecessors ever been suspended or debarred by a state, federal or municipal agency?
YES / NO

f. Within the past five (5) years, has the firm or its predecessors been terminated on or failed to complete any contract?
YES / NO

g. Within the past five (5) years has the firm or the predecessors been responsible for significant delays in completion of a project (over 3 weeks)?
YES / NO

h. Has the firm or its predecessor firm(s) been in Bankruptcy or receivership at any time during the past five (5) years?
YES / NO

8. Provide a complete list of any projects wherein your company has been involved in a bond claim against your company for non-performance. Include the amount of claim, details of the claim, contact information (name, phone number, email address) for the Architect, Construction Manager/General Contractor, and the Owner.

9. Provide a complete list of any manufacturers, suppliers or installers that have ever filed a claim against your company, any predecessor companies, or company principals for either non-performance or non-payment on any detention project. Include the dollar amount of the claim and the name of the company(s) and a contact name, phone number and email address.

10. Letter from an approved and A-15 rated bonding company stating that the Detention Equipment Contractor can be bonded for this complete project if awarded the Contract.

11. Provide an audited financial statement from a recognized Certified Public Accountant for the three (3) past fiscal years. The format of the financial statement must be acceptable to surety for purpose of obtaining performance and payment bonds in an amount equal to at least $3 million dollars, or the anticipated amount of the bid, whichever is less.

12. List the firm's business volume (dollar amount) for the last five (5) fiscal years.

1. List of manufacturers of all equipment intended to be bid as part of the DEC's work on this project. The manufacturers must be chosen from the design specifications or approved in subsequent addendums. Alternate manufacturers will not be considered.

13. Provide letters from manufacturers of detention hollow metal door and frames, detention hardware and detention sliding door locking devices stating that your firm will be able to purchase all materials required for this project.

14. Provide letters from specified detention hardware and detention sliding door locking devices manufacturers that your firm is a qualified installer of their products.

15. Provide a letter from the Security Glass Manufacturer stating that you are a factory-trained, fully authorized distributor and installer for their glazing

16. Provide a letter from the Detention Furnishings Manufacturer stating that you are a factory-trained, fully authorized distributor and installer for their furnishings

17. Provide a letter directly from each manufacturer you intend to include in your bid, stating that you have a customary credit relationship with that manufacturer such that you may purchase equipment directly from that manufacturer

18. Provide a letter from the International Ironworkers Union or another vocational training program that your firm employs trained, bona-fide ironworkers as permanent full-time employees to install the specified security products on this project. Use of unapproved installers, or second tier sub-contractors, shall be just cause for rejection of the Bid or termination of the DEC from the project.

19. If the DEC used a separate firm (or firms) to perform any or all of the work, the fabricator/manufacturer shall submit the following for each firm:

    a. All documents referenced by the previous paragraphs.

20. The DEC shall submit signed and notarized statement signed by an officer of the firm that all documents submitted are, to the best of their knowledge, true and acknowledging that the documents are submitted under penalty of perjury.

D. Materials required for installation by the Detention Equipment Contractor may be provided by any of the detention equipment manufacturers included in the Project Manual. The Detention Equipment Contractor shall receive the materials and assume complete responsibility for the detailing, coordination, erecting, installation and performance and warranty of such work.

E. The Detention Equipment Contractor shall be required to provide a labor and materials payment bond in the amount of 100% of the contract sum.

F. DEC's Representative shall provide regular on-site inspection of work being done by detention equipment installers. This shall happen once every two weeks during the construction stage when detention equipment is being installed and every day during the first two weeks.
1. DEC's Representative shall be thoroughly experienced in the application and installation of detention doors, frames and related hardware.
2. The representative shall keep a complete log of activities on the project. Dates, times, instructions given and to whom, relating to the installation and proper operation of the system.
3. The representative shall participate in the final inspection of the work and Architects Final Punch Out of all material and equipment in this scope.

1.5 COORDINATION

A. Coordinate detention work to ensure efficient and orderly installation of each part of detention work. Coordinate detention work that depends on each other for proper installation, connection, and operation.
1. Develop special procedures required for coordination of detention work.
2. Coordinate installation of different detention components to ensure maximum accessibility for required maintenance, service, and repair.
3. Coordinate provisions to accommodate detention work scheduled for later installation.

B. Coordinate selection of detention products for compatibility.

C. Assemble and coordinate Shop Drawings for detention work provided by separate entities responsible for detention work. Submit detention work submittals simultaneously as a group along with applicable Coordination Drawings.

D. Coordinate installation of anchorages and embedments for detention work. Obtain and distribute, to parties involved, setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
1. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing detention work to comply with indicated requirements.

E. Coordinate protection of detention work both before and after installation.

F. Coordinate preparation of Project Record Documents for detention work and integrate information from entities responsible for detention work to form one combined record.

G. Coordinate preparation of operation and maintenance manuals for detention work and integrate information from entities responsible for detention work to form one combined record.

1.6 OWNER TRAINING AND MATERIALS

A. The object of the provided training materials and instruction periods shall be to communicate a total understanding of operations and maintenance of all detention equipment included in the work. Coordinate with the Owner to review materials and instruction periods, to assure Owner instruction and information requirements will be met. Obtain approval prior to scheduling training sessions.

B. Provide a representative approved by the Owner, who is knowledgeable in operation of detention equipment, and who has thorough knowledge of its mechanisms, for an on-site instruction and training period involving Owner's designated personnel. Representative must be capable of training personnel in the adjustment and operation of detention equipment including pertinent safety requirements, and instructing maintenance personnel in its operation, repair, and upkeep. Instruction shall be given during the first work week after the system has been accepted and turned over to the Owner for regular operation, except if detention equipment adjustment and/or repairs are required for its use. In such cases, training sessions are not to occur until such adjustments and/or repairs are satisfactorily completed. Do not exceed five eight-hour days in length for the total of on-site instruction and training period.

C. Provide an on-site training period. This training period shall not exceed 5 days in length and shall be attended by staff members selected by the Owner. Assume ten (10) Owner staff members.
1. At a minimum the training program shall be subdivided into the following Training Modules:
   a. Facility Operational and Design Philosophy:
      1) Floor plans and traffic patterns for staff and inmates
      2) Operational philosophy of the control rooms
      3) Design philosophy of the various security system components and their interface.
   b. Operation of the Security System:
      1) Operational characteristics and features and functions of all locks, sliding devices and their power source.
   c. Trouble Shooting, General Maintenance, Equipment Adjustments, Repair and Replacement of Security System Components:
      1) Locks, locking device closers, door position switches, etc.

2. At the conclusion of the Operation of the Security System and Trouble Shooting and Maintenance Training Modules, each trainee will be given a performance based assessment on that module which will determine his/her acceptable mastery of each training module.
3. The DEC shall record each training module. The recording does not have to include individual student practice. The recording shall be structured for easy reference by the facility's training staff for future use.
4. The recording shall include the entire presentation by the DEC. The trainer shall introduce each major security training module and by means of a flip chart show each sub-component to be covered next. As a part of the turnover of the training tapes the DEC shall prepare a Training Index denoting the location on the tape where each training section begins and ends
5. Provide narration for the recorded training sessions after the training has taken place. Provide professional narration and editing so that content is easily understood.

D. During the warranty period, if significant changes or modifications take place in the equipment or system, additional instruction shall be provided at no cost to the Owner (unless such changes or modifications are Owner initiated) to acquaint the operating personnel with the changes or modifications.

E. Provide electronic operating / maintenance manuals for each of the above referenced sections. Include complete listing of spare parts furnished under detention equipment work (with re-order part numbers and re-order procedures), a list of contact persons (including addresses, phone numbers) for both routine and emergency advice, and a schedule for all maintenance activities required for each appropriate item provided.

1.7 SHAKEDOWN PERIOD

A. The Detention Equipment Contractor shall coordinate with the General Contractor to establish a shakedown period for the detention work. The shakedown period shall be a minimum of 30 days and shall be completed after substantial completion.

B. Prior to initiation of the shakedown period, all work related to and supporting the detention material shall be completed.

C. The Detention Equipment Contractor shall maintain a log of all anomalies, malfunctions, and repairs encountered during the shakedown period. The log shall be submitted to the Architect for assessment at the conclusion of the shakedown period.

D. Training of the Owner’s staff shall occur after substantial completion.

1.8 WARRANTY

A. The Detention Equipment Contractor shall warrant materials furnished under this Section to be free from defects in material and workmanship. The Detention Equipment Contractor shall provide all labor and materials to repair or replace defective detention equipment work or components.

B. The Detention Equipment Contractor shall maintain the quantities of spare parts provided to the Owner in the original inventory during the warranty period. Components used for repair shall be

replaced immediately and Owner shall not be charged for shipping or other costs unless failure is due to abuse or negligence.

C. The warranty shall exclude vandalism, misuse, acts of nature or abuse.

D. The Owner and / or Owner's Representative shall notify the Detention Equipment Contractor on a 24-hour phone number (supplied by the DEC), outlining defects in the detention equipment. The Detention Equipment Contactor shall respond to this call within 2 hours with a return call from a service technician.

E. The Warranty shall provide for a maximum response time (service technician on the site) of 24-hours on the first occurrence and 12-hours on the second occurrence. The Detention Equipment Contactor shall also guarantee overnight shipment of any part request within 24-hours during the warranty period.

F. Record maintenance and service calls by signing the Owner's project logbook maintained on the premises.

G. In addition to the requirements of the Contract Conditions, DEC shall extend correction period an additional one (1) year for a total of two (2) years from the date of Substantial Completion.

1.9 SUBMITTALS

A. Make submittals in accordance with the requirements and timelines stated in Division 1 and the following Sections.

B. Submit operation and maintenance manual outline/table of contents for review and approval at the same time as packages 1, 2, 3, 4 & 5 are delivered to the Architect.

C. Submittals for work in Sections 11 19 08, 11 19 13, 11 19 33, 11 19 50, 11 19 53, 11 19 63, 11 19 90 and 11 19 93, shall be submitted as complete composite packages by the DEC. Partial or incomplete packages will be rejected. Packages 1, 2, 3, 4 & 5 shall be delivered to the Architect at the same time in accordance with the approved submittal schedule. If the Architect determines that the submittals are acceptable in completeness to review, the DEC's project representative (and a representative of the firm's preparing the submittals for work of Sections listed above if different from the DEC) shall meet with the Architect at the DEC's office for the purpose of the review of all submittals following their receipt and approval of completeness by the Architect. This review meeting will be held once and will take 5 five days and shall be attended by all parties, and its intent is to provide the supplier with the ability to proceed into production while forwarding a final record set. If an additional meeting is required all labor and expenses for the Owner, Architect and Security Consultant shall be back charged to the Contractor by the Owner.

D. The Composite Submittal packages contents are summarized below. See the submittal paragraph in sections other sections for details and for those submittals not required in a composite package

1. Package #1 - Detention Hollow Metal Doors and Frames (Section 11 19 13):
   a. Fire Marshal approval letter
   b. Shop drawings showing:
      1) Door Elevations
      2) Frame Elevations

3) Glazing Types (Actual Thickness)
4) Glazing Stops (Removable Side)
5) Hardware Locations
6) Electronic Mortar Boxes (Mounting, Locations)
7) All Reinforcements / Connections
8) Grout Holes (Locations / Sizes)
9) Related Construction Details

c. Method of installation including:
1) Anchorage
2) Sequence of installation

d. Plan drawings showing sides of removable stops
e. Primer paint data
f. Frame installation jigging system
g. Welders Certification
h. Door testing lab report
i. Notarized letter
j. Metal Body Putty Filler product data
k. Submit mortar box drawings
l. List of special tolerances
m. List of 'UL' rated openings

2. Package #2 - Detention Equipment Hardware (Section 11 19 53):
a. Product data:
1) Specifications
2) Installation instructions
3) General recommendations

b. Hardware schedules
c. Keying Drawings:
1) Keymarks
2) Lock Types
3) Key Access Sides
4) Quantities of keys

d. Security Screws
e. Locking device drawings
f. Electronic locks & locking device drawings
g. Electronic equipment
h. Certified test reports

3. Package #3 - Security Glazing (Section 11 19 08):
a. For security glass products, submit manufacturer's technical data describing products, and manufacturer's signed statement that such products do not fail to meet the herein specified ballistic and physical attack retention requirements
b. For glass assemblies, submit technical data describing assembly fabrication, glazing methods, and glazing products to be used for installation
c. Submit certified copies of test reports which show that windows of the type and approximate size and arrangement to be provided under this section will not leak when tested according to ASTM E-1105 at a test pressure of 7.5 pounds per square foot. Test is to be run on one (1) interior and one (1) exterior window
d. Submit 12 inch long samples of each color required for each Sealant and "U" gasket
e. Submit full scale frame corner samples (at least 8" square in size), glazed with each glass type, showing metal frame assembly, construction, glazing technique, and finish. (Note: Obtain frame sections from Section 11 19 00 suppliers.)

f. Submit compatibility and adhesion test reports from sealant manufacturer indicating that glazing materials were tested for compatibility and adhesion with glazing sealants. Include sealant manufacturer's interpretation of test results relative to sealant performance and recommendations for primers and substrate preparation needed for adhesion
g. Submit reproducible plan drawings showing glazing types for each door, window and/or opening on the project, include a tag number for each opening. These drawing shall be 1/8" scale and glazing types shall be identified by colors and/or a legend
h. Submit Manufacturer's recommended special precautions required for care, handling and cleaning
i. Submit copy of Operation and Maintenance Manual "Table of Contents" for review and approval.

4. Package #4 – Detention Equipment and Furnishings (Section 11 19 63) and all other sections provided by the DEC:

a. Submit Detention Equipment Supplier Qualifications
b. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of detention furnishing indicated.
c. Shop Drawings: For each type of detention furnishing. Include plans, elevations, sections, details, and attachments to other Work.
d. Coordination Drawings: Drawings of each built-in anchor supporting detention furnishings, including those to be installed as work of other Sections, drawn to scale and coordinating anchorage with detention furnishings. Show the following:
    1) Locations, dimensions, and profiles of wall and floor reinforcements.
    2) Locations and installation details of built-in anchors.
    3) Elevations of each detention furnishing showing dimensions of furnishing, preparations for receiving anchors, and locations of anchorage.
    4) Details of attachment of each detention furnishing to built-in anchors.
e. Samples: For each type of detention furnishing with factory-applied color finishes.
f. Submit other items as required by Section 11 19 63

1.10 SPARE PARTS

A. Provide quantities as indicated in Detention related specifications.

B. Deliver to location directed by Owner, cartoned to provide protection during transit and storage. Obtain receipt when delivered

C. Spare parts and extra stock will be retained by the owner and will not be released for use in installation

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of detention work.
   1. Examine roughing-in for embedded and built-in anchors to verify actual locations of detention work connections before detention work installation.
   2. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of detention work.

B. Inspect built-in and cast-in anchor installations before installing detention work to verify that anchor installations comply with requirements. Prepare inspection reports.
   1. Where inspections indicate that anchors do not comply with specified requirements, reinspect after repairs or replacements are made.
   2. Perform additional inspections to determine compliance of replaced or additional work. Prepare inspection reports.

C. Verify locations of detention work with those indicated on Coordination Drawings.

3.2 FIELD QUALITY CONTROL

A. Observe field welding of detention work and anchorages.

B. Verify that detention work is installed and connected according to the Contract Documents.

C. Verify that electrical wiring installation complies with manufacturer's submittal and written installation requirements in Division 26 and Division 28 Sections.

D. Observe startup service of detention work.

E. Observe installation and startup checks of detention work according to manufacturer's written instructions.

F. Inspect installed detention work to verify compliance with requirements. Prepare inspection reports and indicate compliance with and deviations from the Contract Documents.
   1. Perform additional inspections to determine compliance of replaced or additional work. Prepare inspection reports.
   2. Prepare field quality-control certification that states installed detention work and its installation complies with requirements in the Contract Documents.

G. Testing: After installing detention work and after electrical circuitry has been energized, test detention work for compliance with requirements.
   1. When testing reveals detention work not in compliance with requirements, perform additional random testing to determine extent of noncompliance.
   2. Where test results indicate that detention work does not comply with specified requirements, retest after repairs or replacements are made.

3. Perform additional testing and inspecting, at Contractor's expense, to determine compliance of replaced or additional work.

END OF SECTION 111900

SECTION 111950 - SECURITY CEILING ASSEMBLIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes security acoustical and non-acoustical pan and plank metal ceilings including installation as scheduled in the contract drawings and as specified herein.

1.2 PRODUCTS PROVIDED UNDER THIS SECTION

A. Minimum security downward locking security panels and Medium security single skin plank type acoustical ceiling systems.

1.3 RELATED SECTIONS

A. Division 09 Sections for Interior Painting and Exterior Painting.

B. Division 11 - Detention Equipment

C. Division 21 – Fire Suppression

D. Division 23 - Mechanical

E. Division 26 – Electrical

F. Division 27 – Security Electronics

1.4 REFERENCES

A. ASTM A 1008/A 1008M-00, Specification for Steel, Sheet and Strip, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, and High-Strength Low-Alloy with Improved Formability

B. ASTM A 1011/A 1011M-00, Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, and High-Strength Low-Alloy with Improved Formability

C. ASTM A 653/A 653M-97, Specification for Steel Sheet, Zinc-coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot Dipped Process (Commercial Steel)

D. ASTM A 666-96b, Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate and Flat Bar

E. ASTM B 117-97, Standard Practice for Operating Salt Spray (Fog) Apparatus

F. ASTM D 610-95, Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces

G. ASTM D 714-87 (1994), Standard Test Method for Evaluating Degree of Blistering of Paints

H. ASTM D 1735-97, Standard Practice for Testing Water Resistance of Coatings Using Water Fog Apparatus

I. ASTM C 635-00, Standard Specification for the Manufacture, Performance and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.

J. ASTM C 636-03, Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels

K. ASTM C 423, Standard Test Method for Sound Absorption and Sound Absorption Coefficient by the Reverberation Room Method

L. ASTM F 2322 Standard Test Methods for Physical Assault on Vertical Fixed Barriers for Detention and Correctional Facilities

M. ASTM E-84-04, Standard Test Method for Surface Burning Characteristics of Building Materials.

N. AWS D1.3 Structural Welding Code for Sheet Metal

O. ISO 9001 International Standards Organization – Standards for Quality Management

P. CISCA Guidelines

Q. Abbreviations:
1. DEC: Detention Equipment Contractor
2. ASTM: American Society for Testing Materials
3. AWS: American Welding Society
4. CISCA: Ceilings and Interior Systems Construction Association

1.5 TESTING AND PERFORMANCE

A. Fire Performance
1. Acoustical fill flame spread index shall not exceed 15 with smoke developed value not exceeding 5 when tested in accordance with ASTM C 84.

B. Manufacturer shall submit evidence a ceiling assembly covering an 8'-0" x 10'-0" area using the desired ceiling panel system installed in accordance with the manufacturer's instructions will meet the following impact tests without failure or rupture:

Static Load (up lift) Test					Impact Test		
Panel Material Thick-ness	@ Corner Lbs / in^2	@ Joint Lbs / in^2	@ Center of Panel @ Center of Room Lbs / in^2	Impact Energy of Each Blow Ft. Lbs.	@ Corner Number of Blows	@ Panel Joint Number of Blows	@ Center of Panel @ Center of Room Number of Blows
0.067	1000	1000	1000	150	100	100	100

1.6 QUALITY ASSURANCE

A. Manufacturer's Qualification
1. Manufacturer shall provide evidence of having personnel and plant equipment capable of fabricating ceiling assemblies of the type specified herein. Manufacturer shall provide current documentation of the number of employees, a listing of their production equipment, and a description of their manufacturing facility.
2. Manufacturers shall be ISO 9001:2000 certified and shall be required to present their Certificate of Registration upon request. The manufacturer's registrar shall be nationally recognized and shall provide the manufacturer with periodic factory follow up audits reaffirming the manufacturer's continuing compliance with their written quality program.
3. Manufacturer's production welders shall be qualified under AWS D1.3 and upon request shall provide copies of Welders Certifications in accordance with AWS D1.3.
4. Manufacturers shall have a minimum of five (5) years' experience successfully producing security ceiling systems of the types and sizes required in the contract documents. Upon request the manufacturer shall provide a list of successfully completed projects and the dates they were completed.
5. Manufacturers shall have written test reports of their having passed the testing requirements of section 1.5 and using their current materials and production processes.

B. Subcontractor (DEC) qualifications
1. Refer to qualifications in section 11 19 00
2. Technically qualified and experienced in furnishing and installing detention security acoustical panel.
3. Welders and tackers shall be qualified by the American Welding Society's procedure AWS D1.3.
4. Has full time employees with a minimum of 5 years' experience in furnishing and installing detention equipment and detention security systems.
5. Direct distributor or dealer for the manufacturer of detention security acoustical panel system specified or approved.
6. Submit evidence of prior experience in the installation of metal security ceiling systems.

C. Quality Criteria
1. All ceiling construction shall be in accordance with construction of assemblies which meet the testing requirements of Section 1.5.
2. Fabrication methods and product quality shall meet standards specified herein.

1.7 SUBMITTALS

A. Submittal Drawings
1. Submit in accordance with Division 01.
2. Provide detailed drawings including: layout of ceiling systems, details of construction, gauges of metal, anchoring details, conditions at openings, installation details and methods, and other data pertinent to the installation, including illustration of sequence of installation to accomplish interlocking panels.
3. Do not begin fabrication of material until the Architect has reviewed and approved shop drawings.

B. Samples
1. Supply a 1'-0" x 1'-0" section of each ceiling system being supplied showing wall mounting members and panel sections.
2. All samples submitted shall be of the production type and shall represent in all respects the minimum quality of work to be furnished by the manufacturer. No work represented by

the samples shall be fabricated until the samples are approved, and any downgrading of quality demonstrated by the samples can be cause for rejection of the work.

C. Test Reports
1. Manufacturer shall submit to the architect an independent testing laboratory report certifying that ceiling assemblies meet the performance requirements of Paragraph 1.5 and are constructed in accordance with Paragraphs 2.1 of these specifications.

D. Qualifications
1. Manufacturer shall submit to the architect, ten (10) days prior to bid date, his qualifications as described in section 1.6.A.

1.8 WARRANTY

A. All ceiling systems work shall be warranted from defects in workmanship and quality for a period of one (1) year from shipment.

PART 2 - PRODUCTS

2.1 SECURITY CEILING SYSTEMS

A. PRE-APPROVED ACCEPTABLE MANUFACTURERS
1. Trussbilt
2. Kane Detention / Kane Innovations
3. Products other than those specified or approved will be considered if the following items are submitted to the Architect at least 10 days prior to bid due date.
   a. Physical samples
   b. Catalog and technical information
   c. References (including name and telephone number or person to contact)
   d. Notarized certification that the product conforms to the requirements, quality, and durability of the products specified herein
   e. Notarized certification that manufacturer conforms to the manufacturer's qualifications required in this specification
   f. Agreement to reimburse the Architect or Owner for costs associated with changing from the specified products. If a substitution is approved, it will be in the form of an addendum to the bidding documents.

B. CONSTRUCTION
1. Type S1 - Suspended Metal Pan Ceiling
   a. Ceiling pans: Shall be nominally 24" x 24" (or 24" x 48") x 1" deep with sloping vertical legs on all four sides. All ceiling pans shall be factory formed and shall be perforated with .080" diameter holes on .220" staggered 45 degree centers. Panel skin = 18 gauge.
   b. When installed, the face of the pans shall rest on the inside surface of the exposed horizontal flanges of the main runner and cross tees. The sloping vertical legs of the pans shall snap-in and lock positively and continuously under the bottom surface of the rectangular bulb of the tee sections, and lock into the perimeter channel by a 20 gauge galvanized hold-down clip, thereby providing a visual concealment barrier without the use of exposed clips or fasteners.
   c. Main runners and cross tees: Shall conform to the requirements of a system wide, duty classification in accordance with ASTM C635. They shall be a roll-formed

double web with rectangular bulb, using A40 galvanneal steel, minimum .018" thick, to an overall height of 1½" with a flange width of 15/16". The structural member will incorporate double lateral rotary stitching to provide a more homogeneous component exhibiting increased columnar and torsional strength. The cross tee shall provide a positive mechanical lock into the main runners and locking splice. When assembled, the system shall carry performance characteristics in keeping with those necessary to achieve a Zone 4 seismic rating.

d. Hangers: The main runners shall be supported from the structural ceiling by 12 gauge galvanized, pre-stretched, soft annealed, steel wire hung at points not exceeding 48" on center.

Compression Struts: Shall be composed of telescoping ½" diameter and ¾" diameter steel tubing. The ¾" diameter tube shall extend down to rest on the bulb of the main runner. At the other end, a length of ½" diameter tube is to be telescoped into the top portion of the ¾" diameter tube and screw fastened to it with two (2) No.10 x 1 ¼" screws so the top of the 1/2" diameter tube bears on the structure above and the bottom of the ¾" diameter tube fits snugly upon the bulb of the main runner. A compression strut is required at each hanger wire at a maximum of 48" on center.

e. Wall Perimeter channels: Exposed wall perimeter channel shall be of the same material and have the same finish as the suspension system runners. The perimeter channel shall also be roll-formed into a "C" profile to accommodate a 20 gauge hold-down clip, thereby providing a concealed fastener system. Each hold-down clip shall be locked onto perimeter channel with two spring clips.

f. Fasteners: Any exposed fasteners shall be a minimum No.10 size, pin Torx®, tamper-proof security screws. Fasteners for securing the wall moldings to the wall shall be furnished by the ceiling manufacturer.

g. Acoustical material: The inside surface of all perforated ceiling pans shall be covered with a Class "A" poly-encapsulated fiberglass insulation of sufficient thickness and density to provide an NRC of not less than .90 when tested in accordance with ASTM C 423.

h. Lights, HVAC: All light and air units are to be sized to fit into and trim off full module openings and shall be independently supported from above by the trade requiring the opening.

i. Finish: All components of the panel and suspension system visible from the floor side shall have a factory applied finish. Prior to painting, all surfaces shall be cleaned of rust, oil and other impurities by receiving a multi stage pre-treatment consisting of degrease and phosphate coating, clear water rinse and non-chromate sealer and rinse, to condition the surface of the metal to resist and inhibit corrosion and promote paint adhesion. Finish to be applied after perforation to insure coating of the perforated holes. Panels shall be coated with DuPont TGIC Polyester or equal, white powder coat, applied at a minimum of 2 mils thickness (dry). The main runners, cross tees, and wall perimeter channels shall be coated with epoxy white powder matching the ceiling panels

2. Type S3A – Acoustic Double skin ship-lap joint plank ceiling system)

a. Ceiling panels: Shall be 24 in. wide and supplied in manufacturer's standard lengths of 6 ft, 8 ft.or 10 ft. All ceiling planks shall have factory formed ship-lap edges and shall be perforated with 0.125 in. diameter holes, staggered .218 in. on center for a 29% open area. Panel skin = 14 gauge.

b. Panel core construction: Panels shall be stiffened using one of the follow core systems.

1) Continuous steel truss design core material, .015 in. minimum, having truncated triangular sections extending continuously from one panel face to the other, spot welded to each face sheet 2.75 in. on center horizontally and

3 in. on center vertically. Core material shall extend full height and width of panel.

2) Rolled or formed 1/8 in. steel channels extending full length of panel and continuous from one face to the other, spaced not more than 4 in. on center and spot welded to panel faces not more than 3 in. on center vertically.

3) Continuous vertical hat sections, one such hat section welded to each face of the panel, .053 in., with vertical webs no more than 4 in. apart. Hat sections shall be welded to each other at least 6 in. on center on both sides in order to prevent separation.

4) Spaces between stiffeners shall be filled with fiberglass or mineral rock wool batt-type material.

c. Start and ending panels: shall be 0.093 in. minimum thickness, single skinned non-perforated material and shall be cut to size in the field by the installing contractor.

d. Wall perimeter angles: Shall be formed angles 0.123 in. minimum thickness and punched 16 in. on center for 3/8 in. expansion anchors. Panels shall be welded to the wall angles 1 in. weld 12 in. on center.

e. Interim Tee supports: Tee supports shall be two wall mounting angles bolted back-to-back using 3/8" – 16 bolts, 24 in. on center.

1) i. Suspension for Tee supports shall be 3/8 in galvanized threaded rod, bolted to the above structure and the Tee support, 36 in (914 mm) on center.

f. Fasteners: Any exposed fasteners shall be a minimum No.10 size, pin Torx®, tamper-proof security screws or blind rivets. Wall anchor bolts shall be 3/8 in. diameter (Rawl 5015 or equivalent) and shall be placed 16 in. on center. Anchors for securing the wall moldings to the wall shall be furnished by the ceiling manufacturer.

g. Acoustical material: The inside surface of all perforated ceiling pans shall be insulated with 8 pound density mineral rockwool and provide a NRC of not less than .75 when tested in accordance with ASTM C 423.

h. Lights, HVAC: All light and air units are to be sized to fit into and trim off to full panel width openings and shall be independently supported from above by the trade requiring the opening.

i. Finish: After fabrication, all tool marks and surface imperfections shall be filled and sanded as required to make face sheets, vertical edges and weld joints free from irregularities. After appropriate metal preparation, all exposed surfaces of panels shall receive a rust inhibitive primer which meets or exceeds ASTM B117 Salt Spray for 150 hours with a rust grade of not less than 6 as defined in ASTM D610, and ASTM D1735 Water Fog Test for organic coatings for 200 hours with any quantity of #8 blisters but no more than a few #6 blisters as illustrated in ASTM D714.

a) In order to prevent removal of zinc galvanizing material from panel surfaces, panels shall not be finish sanded on panel surfaces.

b) Field finish shall be provided under Section 09 91 23

c) All field touch ups and welds shall be spot primed with an epoxy based primer.

d) The use of alkyd primers will not be allowed for any metal wall panel primer or any security hollow metal primer attached to the metal panel system.

PART 3 - EXECUTION

3.1 DELIVERY, STORAGE AND HANDLING

A. Protect panels from damage during transit to job storage.

B. Inspect panels upon delivery for damage. Minor damage may be repaired provided finish items are equal in respect to new work and acceptable to Architect/Engineer. Otherwise, remove and replace with new material.

3.2 INSTALLATION

A. General
1. Install ceiling system using the approved submittal drawings and contract documents. Install using the manufacturer's installation instructions.
2. Accurately locate partitions, holes, cut outs and verify locations with other trades.
3. Set closures and steel supports with anchors to suit condition.
4. Erect true and level with close fitting tolerances.
5. Bearing at ends shall be a minimum of 1 in.

B. Fastenings
1. Fasten supporting members to each other and to building construction as detailed or as otherwise required to provide a secure, permanent installation.
2. Where fastening spacings and sizes are not shown, use spacings and sizings of bolts, screws and welds which will develop the full strength of the members before failure occurs in the fastenings.

C. Touch-up Painting
1. Immediately after installation, areas where prime or finish coat has been damaged and where welding has occurred shall be sanded smooth and touched up with same primer or finish touch up paint as applied by the manufacturer.
2. Remove rust before touch up primer is applied.

3.3 FIELD QUALITY CONTROL

A. Hold a meeting with other trades to review installation procedures and workmanship with a special emphasis on unusual conditions to ensure correct installation procedures.

B. Security panel system shall be installed in place under the supervision of a qualified supervisor.

END OF SECTION 111950

SECTION 11 19 53 - DETENTION HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Related Sections include the following:
1. Division 11 Section “General Provisions for Detention Work”
2. Division 11 Section “Detention Hollow Metal Doors and Frames”
3. Division 11 Section “Detention Enclosures”
4. Division 11 Section “Tamper Proof Metal Fasteners”
5. Division 26 for Electrical
6. Division 27 for Communications
7. Division 28 for Electronic Safety and Security (Refer to GMP 12)

1.3 PERFORMANCE REQUIREMENTS

A. Swinging Detention Door Assemblies: Provide detention door hardware as part of a detention door assembly that complies with security grade indicated, when tested according to ASTM F 1450-12a, based on testing manufacturer's standard units in assemblies similar to those indicated for this Project.

1.4 SUBMITTALS

A. Make submittals in accordance with the requirements of Division 1 and Section 11 19 00. An asterisk (*) indicates items required in a composite package. See 11 19 00 for a summary list of composite submittal packages.

B. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of detention door hardware.

C. Shop Drawings:
1. Detention Door Hardware Schedule
a. Include openings by door number and location, manufacturer's names, catalog numbers, keying information, materials, and finish.

b. Hardware Schedule shall utilize Heading Numbers which are logically derived from Architect's Hardware Set numbers.
c. The Architect/Engineer's approval of schedule will not relieve Contractor or Supplier of responsibility for errors or omissions which it might contain.
d. Do not group doors with like or similar hardware under a single heading.

D. Certification by Manufacturer: That products supplied complies with performance requirements specified including items that will bear UL label.

E. Qualification Data: For Installer.

F. Product Test Reports: Showing compliance with specified requirements.

G. Maintenance Data: For each type of detention door hardware to include in maintenance manuals.

H. Warranties: Special warranties specified in this Section.

I. Detention Keying Schedule: Coordinate a Detention Keying Meeting with the Architect, User, and hardware supplier so as not to delay the manufacturer and delivery of the required detention locks. Coordinate keying with the Owner's existing keying system schedule. Submit keying system schedule after signed approval by User.

1.5 QUALITY ASSURANCE

A. Detention Equipment Contractor (DEC) Qualifications
1. General: Refer to Section 11 19 00.

B. Provide detention hardware manufactured by a single firm specializing in the production of this type of work.

C. Installation and maintenance of the detention hardware shall be performed by manufacturer approved personnel. Submit certification of manufacturer training with shop drawings.

1.6 JOB CONDITIONS

A. Detention Hardware Coordination Conference:
1. A coordination conference will be held and coordinated by the General Contractor after submittals of schedules and shop drawings.
2. Participants: A qualified representative of each of the following parties will attend the conference:
a. Owner
b. Project Manager
c. Architect/Engineer
d. General Contractor
e. Detention Equipment Contractor

f. Electrical Contractor
g. Detention Hollow Metal Work Supplier
h. Detention Hollow Metal Work Installer
i. Detention Hardware Supplier
j. Detention Hardware Installer

3. Bid Package Contractor shall take minutes of the hardware coordination conference.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver, store and handle detention hardware per manufacturer's requirements.

B. Delivery: Deliver items in manufacturer's original package. Each item individually packaged and carefully marked for intended opening and use. Each item complete with all necessary screws, bolts, keys, instructions, and where necessary, installation templates.

C. Storage: Store off floor in dry area of building out of way of other work in progress. Provide maximum protection against loss and damage.

D. Handling: Handle items in a manner to prevent damage. Marred, defaced, damaged and defective items will be rejected.

1.8 WARRANTY

A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.

B. Special Warranty: Submit a written warranty executed by the manufacturer and installer agreeing to repair or replace materials furnished under this Section that fail in materials or workmanship within the specified warranty period. Submit the warranty to the Architect for approval. The spare part provided to the Owner in the original inventory shall be maintained during the warranty period. Components used for repair shall be replaced immediately and the Owner shall not be charged for shipping or other costs unless failure is due to abuse or negligence.

C. Warranty Period: In addition to the requirements of the Contract Conditions, DEC shall extend correction period an additional one (1) year.

1.9 MAINTENANCE SERVICE

A. Maintenance Manual: Furnish a bound complete set of maintenance instructions as needed for Owner's continued adjustment, maintenance, repair, and removal and replacement of detention door hardware.

B. Training: Refer to Section 11 19 00 for Training and Material requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Catalog numbers of the manufacturers listed have been used to establish the quality required. The only other manufacturers approved are listed. Other manufacturers seeking approval shall do so in writing per General Requirements and shall list exact catalog numbers and description of the items he proposes to furnish.

B. DESIGNATIONS: Following abbreviations identify listed hardware manufacturers.

1.	Brink	R.R. Brink Locking Systems, Inc.; Shorewood, IL
2.	Folger Adam	Folger Adam Security Inc.; Lemont, IL
3.	Hagar	Hagar Companies; St. Louis, MO
4.	Hiawatha	Hiawatha Metalcraft, Inc.; Minneapolis, MN
5.	Ives	H.B. Ives Div.; New Haven, CT
6.	LCN	LCN Closers; Princeton, IL
7.	Norton	Norton Closer Div.; Charlotte, NC
8.	Pemko	Pemko Mfg. Co.; Emeryville, CA
9.	Reese	Reese Enterprises; Rosemount, MN
10.	Southern Steel	Southern Steel Co.; San Antonio, TX
11.	Stanley	Stanley Security Solutions; Indianapolis, IN
12.	Zero	Zero Weatherstripping; Bronx, NY
~~12.~~13.	HH-Security	HH-Security; 435-979-3072

2.2 DETENTION HINGES

A. Heavy Duty, 4 1/2 FM:
1. Series/Manufacturer:
   a. 4 1/2 FM-ICS/Folger Adam
   b. 204FMSS/Southern Steel
2. 4 1/2 x 4 1/2, 3/16" thick leaves.
3. Cast stainless steel leaves with integral security studs, non-removable stainless steel pins, stainless steel ball bearings, three knuckle with "HT" hospital tips.
4. Provide quantities as follows:
   a. Doors less than 5 feet high provide 1 Pair.
   b. Doors over 5 feet to 7 feet 6 inches provide 1-1/2 Pair.
   c. Doors over 7 feet 6 inches to 10 feet provide 2 Pair.
   d. Doors over 3 feet wide provide 2 Pair.

B. Electric Power Transfer Hinge:

1. Series/Manufacturer:

a. 204E/Southern Steel

2. 4 1/2 x 4 1/2, 3/16" thick leaves.

~~d.~~ Cast stainless steel leaves with integral security studs, non-removable stainless steel pins, stainless steel ball bearings, three knuckle with "HT" hospital tips.

2.3 DETENTION LOCKS (Basis of Design)

A. Electro-Mechanical Operation:
1. Series / Manufacturer:
   a. 10120AM / Southern Steel
2. Frame mounted 24V VDC motor operated.
3. Internal switches monitor status of bolt to show deadlocked and unlocked conditions.
4. Provide galvanized case at exterior installations.
5. Provide mogul cylinder/s.
6. Provide a key cylinder extension for locks keyed both sides or keyed stop side.
7. Refer to “Detention Hardware Sets” and “Detention Door Schedule” for locations.
8. Provide Local Electric Keyswitch (LEK) option where scheduled.

B. Electro-Mechanical Operation:

1. Series / Manufacturer:

a. 10300MD / Southern Steel

2. Frame mounted 24V VDC motor operated.

3. Internal switches monitor status of bolt to show deadlocked and unlocked conditions.

4. Provide galvanized case at exterior installations.

5. Provide mogul cylinder/s.

6. Provide a key cylinder extension for locks keyed both sides or keyed stop side.

7. Refer to “Detention Hardware Sets” and “Detention Door Schedule” for locations.

C. Electro-Mechanical Operation:

1. Series / Manufacturer:

a. 10605E / Southern Steel

2. Door mounted mortise lock

3. 24V VDC, electric operated
4. Internal deadlock indication switch
5. Provide mogul cylinder/s.
6. Refer to “Detention Hardware Sets” and “Detention Door Schedule” for locations.

~~8.~~

~~B.~~D. Mechanical Operation
1. Series / Acceptable Manufacturer:
   a. 1010AM / Southern Steel
2. Manual deadlock
3. Mogul keyed
4. Galvanized case and cover
5. Refer to “Detention Hardware Sets” and “Detention Door Schedule” for locations.

~~C.~~E. Mechanical Operation
1. Series / Acceptable Manufacturer:
   a. 1010A / Southern Steel
2. Manual deadlock
3. Paracentric keyed
4. Galvanized case and cover
5. Refer to “Detention Hardware Sets” and “Detention Door Schedule” for locations.

F. Mechanical Operation
1. Series / Acceptable Manufacturer:
   a. 10501 / Southern Steel
2. Manual deadlock
3. Paracentric keyed
4. Galvanized case and cover
5. Refer to “Detention Hardware Sets” and “Detention Door Schedule” for locations.

~~5.~~

2.4 CLOSERS (Basis of Design)

A. Manufacturers:
1. LCN

B. Concealed Door Closure:
1. Overhead concealed door closers shall be one manufacturer and carry a two year warranty.
2. A factory representative shall inspect closers after installation to insure proper adjustment and operation.
3. Closers shall have full hydraulic, rack and pinion action with high strength cast iron cylinder.

4. Spring power shall be adjustable. Spring power shall provide an opening force range of 8 to 15 pounds from 0 degrees to 90 degrees.
5. Closers shall have separate adjustments for latch speed, general speed and back check.
6. Closers shall have an integral electro-mechanical device rated not less than 24 VAC @ 10 amperes to detect and signal rotation of the closer pinion.
7. Adjustments screws shall be accessible through a heavy duty mounting plate when finish plates are removed.
8. Closers shall be field adjustable to allow precise setting for each door and fitted with a protective shield.
9. Install of the finish plate shall fully conceal all adjustment mechanisms.
10. Closers shall have an extra heavy duty, forged steel concealed arm.
11. The low friction track roller shall be attached to the arm by a threaded mounting.
12. Closers shall have a metal track designed to prevent jamming and to eject foreign objects place in the track mortised into the top of the door.
13. Provide brackets, spacer blocks and any accessory required to insure proper installation.
14. Attach with stainless steel security screws.

2.5 POSITION SWITCHES (Basis of Design)

A. Concealed Door Position Switch:
   1. Manufacturer:
      a. 200MRS/Southern Steel
   2. Mortise installation overhead mounting with switch contacts housed in the door frame and actuating magnet mortised into the top of the door.
   3. Adjust switch for minimum movement to activate.
   4. Locate position switches in frame head, six inches (center of switch) from lock edge of door.
   5. Fasteners shall be torx-head (star design with center pin) security fasteners.

2.6 DOOR ACCESSORIES (Basis of Design)

A. Push Plates:
   1. Series/Manufacturer:
      a. 1456/Hiawatha
   2. 3/16" thick stainless steel.
   3. 3 2" W. x 16" H. with 7/8" lip projection at bottom.
   4. Attach with stainless steel security rivets.

B. Pull - Loop:
   1. Series/Manufacturer:
      a. 2/Folger Adam
      b. 212/Southern Steel
   2. Cast bronze, satin chrome plated.
   3. Dimensions 8 3/4" long x 1 2" clearance.
   4. Fasteners shall be torx-head (star design with center pin) security fasteners.

C. Pull - Flush:
   1. Provided by 11 19 13 manufacturer.

D. Door Stops:
   1. Black silicone rubber bumper 2" diameter, mounted on a 5/8" x 2 1/2" steel shank for permanent attachment in grout filled masonry or concrete.

E. Thresholds:
   1. Manufacturer:
      a. Pemko
      b. Reese
      c. National
   2. Fasteners shall be stainless steel torx-head (star design with center pin) security fasteners with expansion anchors.

F. Weatherstripping/Smoke Seals:
   1. Model/Manufacturer:
      a. Pemko
      b. NGP
   2. Black silicone smoke seal, adhesive applied.

G. Automatic Door Bottom:
   1. Model/Manufacturer:
      a. 4131/Pemko
   2. Surface mounted type, clear anodized aluminum, cam-actuated drop down vinyl seal, with spring mechanism return.
   3. Secured with stainless steel, torx-head (star design with center pin) security screws.

H. Kick Plates
   1. .050 Stainless Steel, 10” high x 2” less than door width.
   2. Fasteners: full threaded, countersunk, undercut, center-pin torx head, stainless steel sheet metal screws.

I. Key Switch
   1. By Security Electronics Contractor

2.7 FINISHES

	US Symbol	ANSI Symbol	Description
Hinges, Exterior	US32D	630	Satin Stainless Steel
Hinges, Interior	US26D	626	Satin Chrome
Locks & Pulls	US26D	626	Satin Chrome
Closers	AL	689	Aluminum Painted
Push & Kick plates	US32D	630	Satin Stainless Steel
Strike Plates	US32D	630	Satin Stainless Steel

2.8 CYLINDERS, KEYS AND KEYING

A. The detention locks will incorporate two (1) separate keying systems; for pin tumbler (mogul cylinder) locks. The keying system's keys shall be dye stamped for identification; corresponding to the Detention Equipment Contractor's final schematic keying chart.

B. Mogul cylinder locks shall be master keyed as directed. Provide cut change keys, and master keys as required.

C. For each individual key cabinet, provide the following:
1. For all individual key designations, there shall be three (3) keys each.
2. For each Master Key designations (A,B,...etc.), there shall be five (5) keys each.

D. A complete, detailed schematic chart of the keying system will be required. The Detention Equipment Contractor will also be required to enter the key symbols for all doors on additional floor plans which will be supplied by the Architect. Two (2) copies of the schematic keying chart and architectural floor plans shall be turned over to the user at the completion of the project. The cost for this service shall be included with the cost of materials at the time of bidding. Contractor shall be responsible for coordinating with Owner’s existing keying system schedule.

E. The key schedule is confidential information known only to the Institution, Architect, and lock manufacturer. The Architect shall arrange to meet with the Institution to determine the keying schedule. The lock manufacturer shall deliver keys directly to the Institution (signature required), and provide confirmation of delivery to the Contractor.

F. Keys shall not leave the manufacturer's custody without prior arrangements for delivery and authorization from the Owner.

2.9 KEY CONTROL

A. Key control system shall be furnished only and have a capacity of 1.75 times the number of individual key designations and shall be a complete dual tag system. Similar to TelKee Big Head system, consists of a cabinet, tabs, hook labels, receipt forms, visible index software.

B. Cabinet shall have concealed-type hinge and rounded sides, lock with keys.

C. Panels must have individual hook and label pockets formed as an integral part of the panel, for both paracentric and mogul key types, as required.

D. Tags of two types shall be provided, one set for permanent attachment of file key without the use of tools and the other set with snaphook holding at least four keys.

E. Indexing software shall be provided only for owner's installation and use.

F. Permanent Loan Registry shall be furnished to protect identity of key borrowers while Receipt Tabs shall be supplied for temporary loan.

2.10 DETENTION EQUIPMENT ACCESSORIES

A. Provide accessories, anchorage inserts and security fasteners for a complete, tamperproof installation.

B. Exposed Security Fasteners:
1. Provide torx-head (star design with center pin) security fasteners for anchoring work in exposed detention areas. Comply with specification section 11 19 93.
2. Finish shall match that specified of the item anchored.

2.11 DETENTION HARDWARE SCHEDULE

General: Use of Southern Steel model numbers are to establish a standard of quality and function and are scheduled to indicate general hardware function requirements. Provide exact type of lock, number of hinges, door stops, silencers, closers, gaskets, etc., as indicated in this Specification and Drawings to complete hardware sets to meet code and functioning requirements. Cylinders: All locksets must be provided with cylinders as described elsewhere in this Specification. Use of "AS SPECIFIED" in the following sets indicates that the required item is described elsewhere within this Specification.

2.12 DETENTION HARDWARE SETS:

1. NOTE: THE FOLLOWING ITEMS ASSOCIATED WITH THE BELOW HARDWARE SETS (WHERE OCCURS) ARE PROVIDED BY THE SECURITY ELECTRONICS CONTRACTOR. COORDINATE WITH SECURITY ELECTRONICS DRAWINGS AND SPECIFICATIONS:

a. CARD READERS / ACCESS CONTROLS

b. INTERCOMS

c. PUSH BUTTON DOOR RELEASES

1) NOTATIONS OF THESE DEVICES IN HARDWARE SETS BELOW ARE FOR COORDINATION PURPOSES. VERIFY ALL PUSH BUTTON DOOR RELEASE LCOATIONS WITH SEC. ELEC. DRAWINGS.

d. INDIVIDUAL KEY SWITCHES

1) NOTATIONS OF THESE DEVICES IN HARDWARE SETS BELOW ARE FOR COORDINATION PURPOSES. VERIFY ALL PUSH BUTTON DOOR RELEASE LCOATIONS WITH SEC. ELEC. DRAWINGS.

e. DOOR STATUS INDICATOR LIGHTS

1) NOTATIONS OF THESE DEVICES IN HARDWARE SETS BELOW ARE FOR COORDINATION PURPOSES. VERIFY ALL PUSH BUTTON DOOR RELEASE LCOATIONS WITH SEC. ELEC. DRAWINGS.

SH01 – TYPICAL SALLYPORT (OUTER) SWING DOORS

(1) LOCK	SF-10120AMD-2
(2) LOOP PULL	SF-212
(1) STRIKE	BY LOCK MFR
(*) HINGES	SF-204FMSS
(1) CLOSER	LCN-2215DPS
(1) SMOKE SEALS	NGP
(1) STOP	AS SPECIFIED

*NUMBER OF HINGES AS SPECIFIED

SH01A – TYPICAL SALLYPORT (INNER) SWING DOORS

(1) LOCK	SF-10120AMD-2
(2) LOOP PULL	SF-212
(1) STRIKE	BY LOCK MFR
(*) HINGES	SF-204FMSS
(1) CLOSER	LCN-2215DPS
(1) FOOD PASS LOCK (STOP SIDE)	SF-1010AM-1
(1) SLIDING DUAL ENTRY CUFF PORT	
(1) SMOKE SEALS	NGP
(1) STOP	SPECIFIED

*NUMBER OF HINGES AS SPECIFIED

SH02 – TYPICAL SALLYPORT (OUTER) SWING DOORS - FIRE RATED - EGRESS

(1) LOCK	SF-10120AMD-2
(1) LOCK	SF-10501
(2) LOOP PULL	SF-212
(2) STRIKE	BY LOCK MFR
(*) HINGES	SF-204FMSS
(1) CLOSER	LCN-2215DPS
(1) SMOKE SEALS	NGP
(1) STOP	AS SPECIFIED

*NUMBER OF HINGES AS SPECIFIED

SH02A – TYPICAL SALLYPORT (INNER) SWING DOORS – FIRE RATED - EGRESS

~~(2)~~(1) LOCK	SF-10120AMD-2
(1) LOCK	SF-10501
(2) LOOP PULL	SF-212
(2) STRIKE	BY LOCK MFR
(*) HINGES	SF-204FMSS
(1) CLOSER	LCN-2215DPS
~~(2)~~(1) FOOD PASS LOCK ~~(STOP SIDE)~~	SF-1010AM-~~1~~ 2
~~(2)~~(1) SLIDING DUAL ENTRY CUFF PORT	HH-SECURITY
(1) SMOKE SEALS	NGP
(1) STOP	SPECIFIED

*NUMBER OF HINGES AS SPECIFIED

SH03 – TYPICAL HOLDING CELL / INMATE VISITATION DOORS

(1) LOCK	SF-10120AMD-LEK-1
(1) LOOP PULL (CELL EXTERIOR SIDE)	SF-212
(1) FLUSH PULL (INTERIOR SIDE	BY DOOR MFR
(1) STRIKE	BY LOCK MFR
(*) HINGES	SF-204FMSS
(1) CONCEALED DOOR POSITION SWITCH	SF-200MRS
(1) SLIDING SINGLE ENTRY CUFF PORT	BY DOOR MFR
(1) CUFF PORT LOCK	SF-1010-AM-1
(1) STOP	AS SPECIFIED

*NUMBER OF HINGES AS SPECIFIED

SH04 – TYPICAL DETENTION COORIDOR/COURTROOM SWING DOORS

(1) LOCK	SF-10605E-2
(2) LOOP PULL	SF-212
(1) STRIKE	BY LOCK MFR
(*) HINGES	SF-204FMSS
(1) CLOSER	LCN-2215DPS
(1) SMOKE SEALS	NGP
(1) STOP	AS SPECIFIED

*NUMBER OF HINGES AS SPECIFIED

SH10 –SALLYPORT TO EXTERIOR SWING DOORS – TYPE 1

(1) LOCK	SF-10120-AMD-2
(2) LOOP PULL	SF-212
(1) STRIKE	BY LOCK MFR
(*) HINGES	SF-204FMSS
(1) CLOSER	LCN-2215DPS
(1) WEATHER STRIPPING	NGP
(1) STOP	AS SPECIFIED (ADD STEEL BOLLARD)
(1) THRESHOLD	PEMKO-2705 T (Aluminum)

*NUMBER OF HINGES AS SPECIFIED

SH10A – EXTERIOR SWING DOOR @ EXIST. JAIL

(1) LOCK	SF-10300MD~~605-E~~-2
(1) STRIKE	BY LOCK MFR
(*) HINGES	SF-204FMSS
(1) CLOSER	LCN-2215DPS
(1) WEATHER STRIPPING	NGP
(1) STOP	AS SPECIFIED (ADD STEEL BOLLARD)
(1) THRESHOLD	PEMKO-2705 T (Aluminum)

*NUMBER OF HINGES AS SPECIFIED

SH11 – CHASE DOOR - INTERIOR

(1)	LOCK	SF-1010-1

SH20 – TYPICAL ROOF HATCH LOCK

(1)	LOCK	SF-1010AM-2
(1)	CONCEALED DOOR POSITION SWITCH	SF-200MRS

SH21 – PEDESTRIAN SWING GATE SYSTEM (SF 4150)

(1)	PEDESTRIAN SWING GATE SYSTEM	SF-4150
(1)	GATE, STL. GALV. 42”X84”, W/WELD MESH	
(1)	FRAME, STL. GALV.	
(1)	LOCK	SF-1050SD
(1)	DOOR PULL	
(1)	DOOR POSITION SWITCH	
(1)	GATE CLOSER	
(2)	HEAVY DUTY HINGE	

EXECUTION

2.13 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before installation.

C. Notify the General Contractor in writing of conditions detrimental to the proper and timely completion of the work.

D. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

2.14 INSTALLATION

A. Expenses carried by the Architect/Engineer, Project Manager or Owner in troubleshooting equipment problems caused by inadequate workmanship or other form of poor performance on the part of the Contractor, shall be borne by the Contractor.

B. Install Detention Hardware in accordance with shop drawings, manufacturer's written installation instructions, and as herein specified.

C. Installation shall be under supervision of manufacturer approved personnel.

D. Mounting Heights: Heights given are center line heights up from finish floor unless stated; heights given "Number to Number" indicate that all shall be at one height within limits given. Where heights of items are not listed, mount in accord with recommendations of DHI.

1.	Bottom hinge	10 to l3 inches
2.	Top hinge	6 to 8 inches down from head
3.	Intermediate hinges	Equally spaced
4.	Detention lock	40 inches to centerline of lockbolt
5.	Door pull	50 inches to centerline of grip
6.	Flush pull	50 inches to centerline of grip
7.	Push plate	56 inches to centerline of plate

E. Fitting: Fit hardware accurately and properly. Remove exposed parts until after painter's finishing is completed, then reinstall. Securely fasten all fixed parts. Fit faces of mortised parts snug and flush. Make sure operating parts move freely and smoothly without binding, sticking or excessive clearance.

F. Adjusting and Finishing: After work has been otherwise completed, examine hardware for complete and proper installation. Lubricate bearing surfaces of moving parts. Adjust latching and holding devices to proper function. Adjust door control devices to proper speed and power. Test keys for conformance to approved keying system. Clean exposed surfaces, check for surface damage and polish.

G. Thresholds: Install in one continuous piece, full width of opening. Set in full bed of mastic and fasten with countersunk anchors at 6 inches on center.

2.15 ADJUSTMENT AND CLEANING

A. Check and readjust doors and devices just prior to final inspection. Leave work in complete and proper operating condition. Remove and replace any defective work.

B. Clean equipment thoroughly prior to Substantial Completion.

2.16 DEFECTIVE WORK

A. Where hardware is found defective in materials or installation; rework, restore, replace or otherwise correct as directed.

B. Following will be considered as defective materials:
1. Unauthorized substitutes.
2. Items delivered with missing, broken, damaged or defaced parts.
3. Items of incorrect hand or function.

C. Following will be considered as defective installation:
1. Items broken, damaged, or defaced after delivery.
2. Items incomplete, misaligned or incorrectly located.

2.17 SPARE PARTS

A. Comply with requirements of Section 11 19 00 – General Provisions for Detention Work.

B. Provide 5% spares parts for each hardware type, minimum 1 lock.

C. Fasteners and Accessories:
1. Furnish 5% extra fasteners and other miscellaneous accessories required for installation.

END OF SECTION 111953

SECTION 23 05 53 – IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Equipment nameplates.
2. Equipment markers.
3. Access panel and door markers.
4. Pipe markers.
5. Stencils.
6. Warning tags.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples: For color, letter style, and graphic representation required for each identification material and device.

C. Equipment Label Schedule: Include a listing of all equipment to be labeled with the proposed content for each label.

1.4 QUALITY ASSURANCE

A. ASME Compliance: Comply with ASME A13.1, "Scheme for the Identification of Piping Systems," for letter size, length of color field, colors, and viewing angles of identification devices for piping.

1.5 COORDINATION

A. Coordinate installation of identifying devices with completion of covering and painting of surfaces where devices are to be applied.

B. Coordinate installation of identifying devices with locations of access panels and doors.

C. Install identifying devices before installing acoustical ceilings and similar concealment.

PART 2 - PRODUCTS

2.1 EQUIPMENT IDENTIFICATION DEVICES

A. Equipment Nameplates: Metal, with data engraved or stamped, for permanent attachment on equipment.

1. Data:

a. Manufacturer, product name, model number, and serial number.

b. Capacity, operating and power characteristics, and essential data.

2. Location: Accessible and visible.

3. Fasteners: As required to mount on equipment.

B. Equipment Markers: ASTM D 709, Type I, cellulose, paper-base, phenolic-resin-laminate engraving stock; Grade ES-2. Fabricate in sizes required for message

1. Terminology: Match schedules as closely as possible.

2. Data:

a. Name and plan number.

b. Equipment service.

c. Design capacity.

d. Other design parameters such as pressure drop, entering and leaving conditions, and speed.

3. Size: 2-1/2 by 4 inches for control devices, dampers, etc; 4-1/2 by 6 inches for equipment.

4. Fasteners: Self-tapping, stainless-steel screws.

C. Access Panel and Door Markers: 1/16-inch- thick, engraved laminated plastic, with abbreviated terms and numbers corresponding to identification. Provide 1/8-inch center hole for attachment.

1. Fasteners: Self-tapping, stainless-steel screws.

2.2 PIPE IDENTIFICATION DEVICES

A. Manufactured Pipe Markers, General: Preprinted, color-coded, with lettering indicating service, and showing flow direction.

1. Colors: Comply with ASME A13.1, unless otherwise indicated.

2. Lettering: Use piping system terms indicated and abbreviate only as necessary for each application length.

3. Pipes with OD, Including Insulation, Less Than 6 Inches: Full-band pipe markers extending 360 degrees around pipe at each location.

4. Pipes with OD, Including Insulation, 6 Inches and Larger: Either full-band or strip-type pipe markers at least three times letter height and of length required for label.

5. Arrows: Integral with piping system service lettering to accommodate both directions; or as separate unit on each pipe marker to indicate direction of flow.

B. Pretensioned Pipe Labels: Precoiled, semirigid plastic formed to cover full circumference of pipe and to attach to pipe without fasteners or adhesive.

Pipe Diameter	Letter Height
0.75” to 1.25”	0.5”
1.5” to 2”	0.75”
2.5” to 6”	1.25”
8” to10”	2.5”
10” and up	3.5”

HVAC PIPE LABEL SCHEDULE

SERVICE	MARK	LETTERING COLOR	BACKGROUND COLOR
Chilled Water Supply	CHS	WHITE	GREEN
Chilled Water Return	CHR	WHITE	GREEN
Heating Water Supply	HWS	WHITE	GREEN
Heating Water Return	HWR	WHITE	GREEN
Condensate Drain-Gravity	CD	WHITE	GREEN
Pumped Condensate Drain	CD-PUMP	WHITE	GREEN
Overflow Condensate Drain-Gravity	OCD	WHITE	GREEN
Pumped Overflow Condensate Drain	OCD-PUMP	WHITE	GREEN

2.3 STENCILS

A. Stencils: Prepared with letter sizes according to ASME A13.1 for piping; minimum letter height of 1-1/4 inches for ducts; and minimum letter height of 3/4 inch for access panel and door markers, equipment markers, equipment signs, and similar operational instructions.

1. Stencil Material: Fiberboard or metal.

2. Stencil Paint: Exterior, gloss, alkyd enamel or acrylic enamel black unless otherwise indicated. Paint may be in pressurized spray-can form.

3. Identification Paint: Exterior, alkyd enamel or acrylic enamel in colors according to ASME A13.1 unless otherwise indicated.

2.4 WARNING TAGS

A. Warning Tags: Preprinted or partially preprinted, accident-prevention tags, of plasticized card stock with matte finish suitable for writing.

1. Size: 3 by 5-1/4 inches minimum.

2. Fasteners: Brass grommet and wire.

3. Nomenclature: Large-size primary caption such as "DANGER," "CAUTION," or "DO NOT OPERATE."

4. Color: Yellow background with black lettering.

PART 3 - EXECUTION

3.1 APPLICATIONS, GENERAL

A. Products specified are for applications referenced in other Division 15 Sections. If more than single-type material, device, or label is specified for listed applications, selection is installer’s option.

3.2 EQUIPMENT IDENTIFICATION

A. Install and permanently fasten equipment nameplates on each major item of mechanical equipment that does not have nameplate or has nameplate that is damaged or located where not easily visible. Locate nameplates where accessible and visible. Include nameplates for the following general categories of equipment:

1. Air handling units, fans, air terminal units, chillers, boilers, fan coil units, expansion tanks, air separators, pumps, heaters.

B. Install equipment markers with mechanical fasteners on or near each major item of mechanical equipment. Data required for markers may be included on signs, and markers may be omitted if both are indicated.

1. Letter Size: Minimum 1/4 inch for name of units if viewing distance is less than 24inches, 1/2 inch for viewing distances up to 72 inches, and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.

2. Data: Distinguish among multiple units, indicate operational requirements, indicate safety and emergency precautions, warn of hazards and improper operations, and identify units.

3. Locate markers where accessible and visible. Include markers for the following general categories of equipment:

    a. Main control and operating valves, including safety devices and hazardous units such as gas outlets

    b. Fire department hose valves and hose stations.

    c. Meters, gages, thermometers, and similar units.

    d. Air handling units, fans, air terminal units, chillers, boilers, fan coil units, expansion tanks, air separators, pumps, heaters.

C. Stenciled Equipment Marker Option: Stenciled markers may be provided instead of laminated plastic equipment markers, at Installer's option, if lettering larger than 1 inch high is needed for proper identification because of distance from normal location of required identification.

D. Install access panel markers with screws on equipment access panels.

3.3 PIPE IDENTIFICATION

A. Install manufactured pipe markers indicating service on each piping system. Install with flow indication arrows showing direction of flow.

1. Pipes with OD, Including Insulation, Less Than 6 Inches: Pretensioned pipe markers. Use size to ensure a tight fit.

2. Pipes with OD, Including Insulation, 6 Inches and Larger: Shaped pipe markers. Use size to match pipe and secure with fasteners.

B. Stenciled Pipe Marker Option: Stenciled markers may be provided instead of manufactured pipe markers, at Installer's option. Install stenciled pipe markers with painted, color-coded bands or rectangles complying with ASME A13.1 on each piping system.

1. Identification Paint: Use for contrasting background.

2. Stencil Paint: Use for pipe marking.

C. Locate pipe markers and color bands where piping is exposed in finished spaces; machine rooms; accessible maintenance spaces such as shafts, tunnels, and plenums; and exterior nonconcealed locations as follows:

1. Near each valve and control device.

2. Near penetrations through walls, floors, ceilings, and non-accessible enclosures.

3. At access doors, manholes, and similar access points that permit view of concealed piping.

4. Near major equipment items and other points of origination and termination.

5. Spaced at maximum intervals of 50 feet along each run. Reduce intervals to 25 feet in areas of congested piping and equipment.

6. On piping above removable acoustical ceilings. Omit intermediately spaced markers

3.4 WARNING-TAG INSTALLATION

A. Write required message on, and attach warning tags to, equipment and other items where required.

3.5 ADJUSTING

A. Relocate mechanical identification materials and devices that have become visually blocked by other work.

3.6 CLEANING

A. Clean faces of mechanical identification devices.

END OF SECTION 23 05 53

SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes methods and materials for grounding systems and equipment.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Other Informational Submittals: Plans showing dimensioned as-built locations of grounding features specified in Part 3 "Field Quality Control" Article, including the following:

1. Ground rods.

C. Field quality-control test reports.

D. Operation and Maintenance Data: For grounding to include the following operation and maintenance manuals:

1. Instructions for periodic testing and inspection of grounding connections for separately derived systems based on NFPA 70B.

a. Tests shall be to determine if ground resistance or impedance values remain within specified maximums, and instructions shall recommend corrective action if they do not.

b. Include recommended testing intervals.

1.4 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. Comply with UL 467 for grounding and bonding materials and equipment.

PART 2 - PRODUCTS

2.1 CONDUCTORS

A. Insulated Conductors: Copper or tinned copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.

B. Bare Copper Conductors:

1. Solid Conductors: ASTM B 3.

2. Stranded Conductors: ASTM B 8.

3. Tinned Conductors: ASTM B 33.

4. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch (6 mm) in diameter.

5. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.

6. Bonding Jumper: Copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.

7. Tinned Bonding Jumper: Tinned-copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.

C. Grounding Bus: Rectangular bars of annealed copper, 1/4 by 2 inches (6 by 50 mm) in cross section, 24 inches in length, unless otherwise indicated; with insulators.

2.2 CONNECTORS

A. Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.

B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, bolted pressure-type, with at least two bolts.

1. Pipe Connectors: Clamp type, sized for pipe.

C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.3 GROUNDING ELECTRODES

A. Ground Rods: Copper-clad steel; 3/4 inch by10 feet.

PART 3 - EXECUTION

3.1 APPLICATIONS

A. Conductors: Install solid conductor for No. 10 AWG and smaller, and stranded conductors for No. 8 AWG and larger, unless otherwise indicated.

B. Underground Grounding Conductors: Install bare copper conductor, No. 2/0 AWG minimum.

1. Bury at least 24 inches (600 mm) below grade.

2. Duct-Bank Grounding Conductor: Bury 12 inches (300 mm) above duct bank when indicated as part of duct-bank installation.

C. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere if indicated.

1. Install bus on. insulated spacers 1 inch (25 mm), minimum, from wall 6 inches (150 mm) above finished floor, unless otherwise indicated

2. Where indicated on both sides of doorways, route bus up to top of door frame, across top of doorway, down to specified height above floor, and connect to horizontal bus.

D. Conductor Terminations and Connections:

1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.

2. Underground Connections: Welded connectors, except as otherwise indicated.

3. Connections to Structural Steel: Welded connectors.

E. Kaufman City amendment:

1. Intersystem Bonding Termination. A device that provides a means for connecting intersystem bonding conductors for communication systems and other systems to the grounding electrode system.

2. Bonding conductors for other systems shall not be larger than 6 AWG.connectors.

3.2 GROUNDING UNDERGROUND DISTRIBUTION SYSTEM COMPONENTS

A. Comply with IEEE C2 grounding requirements.

3.3 EQUIPMENT GROUNDING

A. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:

1. All feeders and branch circuits.

2. Flexible raceway runs.

3. Computer and Rack-Mounted Electronic Equipment Circuits: Install insulated equipment grounding conductor in branch-circuit runs from equipment-area power panels and power-distribution units.

B. Air-Duct Equipment Circuits: Install insulated equipment grounding conductor to duct-mounted electrical devices operating at 120 V and more, including air cleaners, heaters, dampers, humidifiers, and other duct electrical equipment. Bond conductor to each unit and to air duct and connected metallic piping.

C. Water Heater, Heat-Tracing, and Antifrost Heating Cables: Install a separate insulated equipment grounding conductor to each electric water heater and heat-tracing cable. Bond conductor to heater units, piping, connected equipment, and components.

D. Isolated Equipment Enclosure Circuits: For designated equipment supplied by a branch circuit or feeder, isolate equipment enclosure from supply circuit raceway with a nonmetallic raceway fitting listed for the purpose. Install fitting where raceway enters enclosure, and install a separate insulated equipment grounding conductor. Isolate conductor from raceway and from panelboard grounding terminals. Terminate at equipment grounding conductor terminal of the applicable derived system or service, unless otherwise indicated.

E. Signal and Communication Equipment: For telephone, alarm, voice and data, and other communication equipment, provide No. 4 AWG minimum insulated grounding conductor in raceway from grounding electrode system to each service location, terminal cabinet, wiring closet, and central equipment location.

1. Service and Central Equipment Locations and Wiring Closets: Terminate grounding conductor on a 1/4-by-2-by-12-inch (6-by-50-by-300-mm) grounding bus.

2. Terminal Cabinets: Terminate grounding conductor on cabinet grounding terminal.

F. Metal Poles Supporting Outdoor Lighting Fixtures: Install grounding electrode (rod) and a separate insulated equipment grounding conductor in addition to grounding conductor installed with branch-circuit conductors.

3.4 INSTALLATION

A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.

B. Ground Rods: Drive rods until tops are 2 inches (50 mm) below finished floor or final grade, unless otherwise indicated.

1. Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.

2. For grounding electrode system, install rods at locations indicated on drawings, and connect to the service grounding electrode conductor.

C. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.

1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.

2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.

3. Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connection is required, use a bolted clamp.

D. Grounding and Bonding for Piping:

1. Metal Water Service Pipe: Install insulated copper grounding conductors, in conduit, from building's main service equipment, or grounding bus, to main metal water service entrances to building. Connect grounding conductors to main metal water service pipes, using a bolted clamp connector or by bolting a lug-type connector to a pipe flange, using one of the lug bolts of the flange. Where a dielectric main water fitting is installed, connect grounding conductor on street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.

2. Water Meter Piping: Use braided-type bonding jumpers to electrically bypass water meters. Connect to pipe with a bolted connector.

3. Bond each aboveground portion of gas piping system downstream from equipment shutoff valve.

E. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install bonding jumper to bond across flexible duct connections to achieve continuity.

3.5 FIELD QUALITY CONTROL

A. Perform the following tests and inspections and prepare test reports:

1. After installing grounding system but before permanent electrical circuits have been energized, test for compliance with requirements.

2. Test completed grounding system at each location where a maximum ground-resistance level is specified, at service disconnect enclosure grounding terminal. Make tests at ground rods before any conductors are connected.

    a. Measure ground resistance not less than two full days after last trace of precipitation and without soil being moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural ground resistance.

    b. Perform tests by fall-of-potential method according to IEEE 81.

3. Prepare dimensioned drawings locating each ground rod and ground rod assembly, and other grounding electrodes. Identify each by letter in alphabetical order, and key to the record of tests and observations. Include the number of rods driven and their depth at each location, and include observations of weather and other phenomena that may affect test results. Describe measures taken to improve test results.

B. Report measured ground resistances that exceed the following values:

1. Power and Lighting Equipment or System with Capacity 500 kVA and Less: 10 ohms.

2. Power Distribution Units or Panelboards Serving Electronic Equipment: 3 ohm(s).

C. Excessive Ground Resistance: If resistance to ground exceeds specified values, notify Architect promptly and include recommendations to reduce ground resistance.

END OF SECTION 26 05 26

SECTION 323113 - CHAIN-LINK FENCES AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Chain-Link Fences: Industrial.

2. Gates: Swing and horizontal slide.

B. Related Section s include the following:

1. Division 03 Section "Cast-in-Place Concrete" for post concrete fill.

2. Division 31 Section "Earth Moving" for site excavation, fill, and backfill where chain-link fences and gates are located.

1.3 PERFORMANCE REQUIREMENTS

A. Structural Performance: Provide chain-link fences and gates capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

1. Minimum Post Size and Maximum Spacing for Wind Velocity Pressure: Determine based on mesh size and pattern specified, and on the following minimum design wind pressures and according to CLFMI WLG 2445:

a. Wind Speed: 105 mph.

b. Fence Height: 6, 8 and 10-feet per drawings, unless otherwise indicated.

c. Line Post Group: IA, ASTM F 1043, Schedule 40 steel pipe

d. Wind Exposure Category: C.

2. Determine minimum post size, group, and section according to ASTM F 1043 for framework up to 12-feet high, and post spacing not to exceed 10-feet.

B. Lightning Protection System: Maximum grounding-resistance value of 25 ohms under normal dry conditions.

1.4 SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for chain-link fences and gates.

1. Fence and gate posts, rails, and fittings.

2. Chain-link fabric, reinforcements, and attachments.

3. Accessories: Barbed wire, razor wire, slats.

4. Gates and hardware.

5. Gate operators, including operating instructions.

6. Motors: Show nameplate data, ratings, characteristics, and mounting arrangements.

B. Shop Drawings: Show locations of fences, gates, posts, rails, tension wires, details of extended posts, extension arms, gate swing, or other operation, hardware, and accessories. Indicate materials, dimensions, sizes, weights, and finishes of components. Include plans, gate elevations, sections, details of post anchorage, attachment, bracing, and other required installation and operational clearances.

1. Gate Operator: Show locations and details for installing operator components, switches, and controls. Indicate motor size, electrical characteristics, drive arrangement, mounting, and grounding provisions.

2. Wiring Diagrams: For power, signal, and control wiring.

3. For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

C. Samples for Verification: For each type of chain-link fence and gate indicated.

1. Galvanized steel wire (for fabric) in 6-inch lengths.

2. Galvanized, in 6-inch lengths on shapes for posts, rails, wires, and gate framing and on full-sized units for accessories.

D. Product Certificates: For each type of chain-link fence, and gate, signed by product manufacturer.

1. Strength test results for framing according to ASTM F 1043.

E. Qualification Data: For Installer.

F. Operation and Maintenance Data: Data Package 2.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has completed chain-link fences and gates similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

1. Engineering Responsibility: Preparation of data for chain-link fences and gates, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

B. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.

1. Include 10-ft. length of fence and gate complying with requirements.

a. Approval of mockups is also for other material and construction qualities specifically approved by Architect in writing.

b. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless such deviations are specifically approved by Architect in writing.

2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

C. Preinstallation Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

B. Interruption of Existing Utility Service: Do not interrupt utility services to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Owner no fewer than two days in advance of proposed interruption of utility services.

2. Do not proceed with interruption of utility services without Owner's written permission.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Chain-Link Fences and Gates:

a. Ameristar Fence Products, Inc.

b. Master-Halco, Inc.

c. Merchants Metals.

d. Ty Metal (vehicular gates)

2.2 CHAIN-LINK FENCE FABRIC

A. General: 8 and 12 feet height as indicated on Drawings. Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist. Comply with ASTM A 392, CLFMI CLF 2445, and requirements indicated below:

1. Steel Wire Fabric: 9 gauge Metallic-coated wire.

   a. Mesh Size: 2-inches.

   b. Weight of Metallic (Zinc) Coating: ASTM A 392, Type II, Class 2, 2.0-oz./sq. ft. with zinc coating applied before weaving.

   c. Coat selvage ends of fabric that is metallic coated before the weaving process with manufacturer's standard clear protective coating.

2. Selvage: Twisted top and knuckled bottom.

2.3 INDUSTRIAL FENCE FRAMING

A. Posts and Rails: Comply with ASTM F 1043 for framing, ASTM F 1083 for Group IC round pipe, and the following:

1. Group: IA, round steel pipe, Schedule 40.

2. Fence Height: 8 and 12 feet, as indicated.

3. Strength Requirement: Heavy industrial according to ASTM F 1043.

4. Post Diameter and Thickness: According to ASTM F 1043.

5. Post Size and Thickness: According to ASTM F 1043, and as follows:

   a. Top and Bottom Rail: 1.66-inches.

   b. Line Post: 2.375-inches.

   c. End, Corner and Pull Post: 2.875-inches.

   d. Swing Gate Post: According to ASTM F 900.

6. Coating for Steel Framing:

   a. Metallic Coating:

      1) Type A, consisting of not less than minimum 2.0-oz./sq. ft. average zinc coating per ASTM A 123/A 123M or 4.0-oz./sq. ft. zinc coating per ASTM A 653/A 653M.

2.4 TENSION WIRE

A. General: Provide horizontal tension wire at the following locations:

1. Location: Extended along bottom of fence fabric.

B. Metallic-Coated Steel Wire: 0.177-inch- diameter, marcelled tension wire complying with ASTM A 817, ASTM A 824, and the following:

1. Metallic Coating: Type II, zinc coated (galvanized) by hot-dip process, with the following minimum coating weight:

a. Class 3: Not less than 2-oz./sq. ft. of uncoated wire surface.

2.5 SWING GATES

A. General: Comply with ASTM F 900 for single and double swing gate types.

1. Metal Pipe and Tubing: Galvanized steel. Comply with ASTM F 1043 and ASTM F 1083 for materials and protective coatings.

B. Frames and Bracing: Fabricate members from round, galvanized steel tubing with outside dimension and weight according to ASTM F 900 and the following:

1. Gate Fabric Height: 2-inches less than adjacent fence height, unless otherwise indicated.

2. Leaf Width:

a. Pedestrian: as indicated in drawings

3. Frame Members:

a. Tubular Steel: 2-inches rectangular.

C. Frame Corner Construction:

1. Welded and 5/16-inch- diameter, adjustable truss rods for panels 5 feet wide or wider.

D. Hardware: Latches permitting operation from both sides of gate, hinges, center gate stops and keepers for each gate leaf more than 5 feet wide. Fabricate latches with integral eye openings for padlocking; padlock accessible from both sides of gate.

2.6 HORIZONTAL-SLIDE GATES

A. General: Comply with ASTM F 1184 for gate posts and single sliding gate types.

1. Classification: Type II Cantilever Slide, Class 2 with internal roller assemblies.

a. Gate Frame Width and Height: As indicated.

B. Pipe and Tubing:

1. Steel: Metallic coating and polymer coating over metallic coating to match fence framing.

2. Gate Posts: Comply with ASTM F 1184. Provide rectangular tubular steel posts.

3. Gate Frames and Bracing: Rectangular tubular steel.

C. Frame Corner Construction: Welded and 5/16-inch- diameter, adjustable truss rods for panels 5 feet wide or wider.

D. Extended Gate Posts and Frame Members: Extend gate posts and frame end members above top of chain-link fabric at both ends of gate frame as indicated as required to attach barbed wire assemblies.

E. Overhead Track Assembly: Manufacturer's standard track, with overhead framing supports, bracing, and accessories, engineered to support size, weight, width, operation, and design of gate and roller assemblies.

F. Hardware:

1. Latches permitting operation from both sides of gate with provision for padlocking accessible from both sides of gate.

2. Lock: Manufacturer's standard internal device.

2.7 Hangers, roller assemblies, and stops fabricated from mill-finished Grade 319 aluminum-alloy casting with stainless-steel fasteners.

2.8 FITTINGS

A. General: Comply with ASTM F 626.

B. Post and Line Caps: Provide for each post.

1. Line post caps with loop to receive top rail.

C. Rail and Brace Ends: Attach rails securely to each gate, corner, pull, and end post.

D. Rail Fittings: Provide the following:

1. Top Rail Sleeves: Pressed-steel or round-steel tubing not less than 6 inches long.

2. Rail Clamps: Line and corner boulevard clamps for connecting intermediate rails in the fence line-to-line posts.

E. Tension and Brace Bands: Pressed steel.

F. Tension Bars: Steel, length not less than 2 inches shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post, unless fabric is integrally woven into post.

G. Truss Rod Assemblies: Steel, hot-dip galvanized after threading rod and turnbuckle or other means of adjustment.

H. Barbed Wire Arms: Pressed steel or cast iron, with clips, slots, or other means for attaching strands of barbed wire, and means for attaching to posts; for each post unless otherwise indicated, and as follows:

1. Provide line posts with arms that accommodate top rail or tension wire.

2. Provide corner arms at fence corner posts, unless extended posts are indicated.

3. Provide gate frames with arms.

4. Type I, single slanted arm.

I. Tie Wires, Clips, and Fasteners: According to ASTM F 626.

1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and frames, complying with the following:

a. Hot-Dip Galvanized Steel: 0.106-inch-diameter wire; galvanized coating thickness matching coating thickness of chain-link fence fabric.

J. Finish:

1. Metallic Coating for Pressed Steel or Cast Iron: Not less than 1.2-oz. /sq. ft. zinc.

2.9 BARBED WIRE

A. Galvanized-Steel Barbed Wire: Comply with ASTM F 1665 two-strand barbed wire, 0.080-inch-diameter line wire with 0.080-inch- diameter, four-point round galvanized-steel barbs spaced not more than 5 inches o.c.

B. Barbed tape: Stainless steel barbed tape shall comply with ASTM F1910.

2.10 ACCESSORIES

A. Privacy Slats: Slats to be manufactured from a combination of color pigments, quality high density virgin polyethylene and ultraviolet inhibitors, having a 25 year limited warranty against either color fading or breakage of slats and locking-channel used under normal climactic extremes experienced In North America and Hawaii.

1. Color: Beige.

2.11 GATE OPERATORS

A. General: Provide factory-assembled automatic operating system designed for gate size, type, weight, and operation frequency. Provide operation control system with characteristics suitable for Project conditions, with remote-control stations, safety devices, and weatherproof enclosures; coordinate electrical requirements with building electrical system.

1. Provide operator designed so motor may be removed without disturbing limit-switch adjustment and without affecting auxiliary emergency operator.

2. Provide operator with UL approval.

3. Provide electronic components with built-in troubleshooting diagnostic feature.

4. Provide unit designed and wired for both right-hand/left-hand opening, permitting universal installation.

B. Comply with NFPA 70.

C. UL Standard: Fabricate and label gate operators to comply with UL 325.

D. Motor Characteristics: Sufficient to start, accelerate, and operate connected loads at designated speeds, within installed environment, with indicated operating sequence, and without exceeding nameplate rating or considering service factor. Comply with NEMA MG 1 and the following:

1. Voltage: 120 V.

2. Horsepower: 3/4.

3. Enclosure: Totally enclosed.

4. Duty: Continuous duty at ambient temperature of 105 deg F and at altitude of 3300 feet above sea level.

5. Service Factor: 1.15 for open drip-proof motors; 1.0 for totally enclosed motors.

6. Phase: One.

E. Gate Operators: Gate mounted and as follows:

1. Mechanical Slide Gate Operators:

a. Duty: Heavy duty, commercial/industrial.

b. Gate Speed: Minimum 60 feet per minute, variable speed.

c. Maximum Gate Weight: 800 lb.

d. Frequency of Use: Continuous duty.

e. Operating Type: Roller chain, with manual release.

f. Drive Type: Enclosed worm gear reducers, roller-chain drive.

F. Remote Controls: Electric controls separated from gate and motor and drive mechanism, with NEMA ICS 6, Type 1 enclosure for pedestal mounting and with space for additional optional equipment. Provide the following remote-control device(s):

1. Control Station: Momentary-contact, three-button-operated; located remotely from gate. Key switch to lock out open and close buttons.

2. Card Reader: Per security drawings and specifications.

3. Vehicle Presence Detector: System including automatic closing timer with adjustable time delay before closing, timer cut-off switch, and presence detector designed to open and close gate, hold gate open until traffic clears, and reverse gate. Provide emitter/receiver detector with adjustable detection zone pattern and sensitivity, designed

to detect the presence or transit of a vehicle in gate pathway when infrared beam in zone pattern is interrupted, and to emit a signal activating the gate operator.

G. Obstruction Detection Devices: Provide each motorized gate with automatic safety sensor(s). Activation of sensor(s) causes operator to immediately function as follows:

1. Action: Reverse gate in both opening and closing cycles and hold until clear of obstruction.

2. Internal Sensor: Built-in torque or current monitor senses gate is obstructed.

3. Photoelectric/Infrared Sensor System: Designed to detect an obstruction in gate's path when infrared beam in the zone pattern is interrupted.

H. Limit Switches: Adjustable switches, interlocked with motor controls and set to automatically stop gate at fully retracted and fully extended positions.

I. Operating Features:

1. Digital Microprocessor Control: Electronic programmable means for setting, changing, and adjusting control features with capability for monitoring and auditing gate activity. Provide unit that is isolated from voltage spikes and surges.

2. System Integration: With controlling circuit board capable of accepting any type of input from external devices.

3. Master/Slave Capability: Control stations designed and wired for gate pair operation.

4. Automatic Closing Timer: With adjustable time delay before closing and timer cut-off switch.

5. Open Override Circuit: Designed to override closing commands.

6. Reversal Time Delay: Designed to protect gate system from shock load on reversal in both directions.

7. Maximum Run Timer: Designed to prevent damage to gate system by shutting down system if normal time to open gate is exceeded.

8. Clock Timer: 24-hour programmable for regular events.

J. Accessories:

1. Warning Module: Audio, ADA/ABA-compliant, alarm sounding three to five seconds in advance of gate operation and continuing until gate stops moving.

2. External electric-powered lock with delay timer allowing time for lock to release before gate operates.

3. Instructional, Safety, and Warning Labels and Signs: Manufacturer's standard for components and features specified.

2.12 FENCE GROUNDING

A. Conductors: Bare, solid wire for No. 6 AWG and smaller; stranded wire for No. 4 AWG and larger.

1. Material above Finished Grade: Copper.

2. Material on or below Finished Grade: Copper.

3. Bonding Jumpers: Braided copper tape, 1 inch wide, woven of No. 30 AWG bare copper wire, terminated with copper ferrules.

2.13 CAST-IN-PLACE CONCRETE

A. Materials: Portland cement complying with ASTM C 150, Type I aggregates complying with ASTM C 33, and potable water for ready-mixed concrete complying with ASTM C 94/C 94M. Measure, batch, and mix Project-site-mixed concrete according to ASTM C 94/C 94M.

1. Concrete Mixes: Normal-weight concrete air entrained with not less than 3000-psi compressive strength (28 days), 3-inch slump, and 1-inch maximum size aggregate.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for a verified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance.

1. Do not begin installation before final grading is completed, unless otherwise permitted by Architect.

2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 INSTALLATION, GENERAL

A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements specified.

1. Install fencing on established boundary lines inside property line.

3.4 CHAIN-LINK FENCE INSTALLATION

A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.

B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.

1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete.

2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.

a. Exposed Concrete: Extend 2-inches above grade; shape and smooth to shed water.

C. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more.

D. Line Posts: Space line posts uniformly at 8-feet o.c.

E. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Install braces at end and gate posts and at both sides of corner and pull posts.

1. Locate horizontal braces at midheight of fabric 9-feet or higher, on fences with top rail and at 2/3 fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.

F. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch- diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24-inches o.c. Install tension wire in locations indicated before stretching fabric.

1. Bottom Tension Wire: Install tension wire within 6-inches of bottom of fabric and tie to each post with not less than same diameter and type of wire.

G. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.

H. Chain-Link Fabric: Apply fabric to inside of enclosing framework. Leave 2-inches between finish grade or surface and bottom selvage, unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.

I. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15-inches o.c.

J. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at 1 end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.

1. Maximum Spacing: Tie fabric to line posts at 12-inches o.c. and to braces at 24-inches o.c.

K. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side.

L. Barbed Wire: Install barbed wire uniformly spaced , angled toward unsecured side of fence. Pull wire taut, install securely to extension arms, and secure to end post or terminal arms.

3.5 GATE INSTALLATION

A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.6 GATE OPERATOR INSTALLATION

A. General: Install gate operators according to manufacturer's written instructions, aligned and true to fence line and grade.

B. Excavation for Support Posts: Hand-excavate holes for bases/pads, in firm, undisturbed soil to dimensions and depths and at locations as required by gate-operator component manufacturer's written instructions and as indicated.

C. Comply with NFPA 70 and manufacturer's written instructions for grounding of electric-powered motors, controls, and other devices.

3.7 GROUNDING AND BONDING

A. Fence Grounding: Install at maximum intervals of 1500 feet except as follows:

1. Fences within 100 Feet of Buildings, Structures, Walkways, and Roadways: Ground at maximum intervals of 750 feet.

a. Gates and Other Fence Openings: Ground fence on each side of opening.

1) Bond metal gates to gate posts.

B. Grounding Method: At each grounding location, drive a grounding rod vertically until the top is 6 inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at the grounding location.

C. Bonding Method for Gates: Connect bonding jumper between gate post and gate frame.

D. Connections: Make connections so possibility of galvanic action or electrolysis is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.

1. Use electroplated or hot-tin-coated materials to ensure high conductivity and to make contact points closer in order of galvanic series.

2. Make connections with clean, bare metal at points of contact.

3. Make aluminum-to-steel connections with stainless-steel separators and mechanical clamps.

4. Make aluminum-to-galvanized-steel connections with tin-plated copper jumpers and mechanical clamps.

5. Coat and seal connections having dissimilar metals with inert material to prevent future penetration of moisture to contact surfaces.

E. Bonding to Lightning-Protection System: If fence terminates at lightning-protected building or structure, ground the fence and bond the fence grounding conductor to lightning-protection down conductor or lightning-protection grounding conductor, complying with NFPA 780.

3.8 FIELD QUALITY CONTROL

A. Grounding-Resistance Testing: Engage a qualified testing agency to perform tests and inspections.

1. Grounding-Resistance Tests: Subject completed grounding system to a megger test at each grounding location. Measure grounding resistance not less than two full days after last trace of precipitation, without soil having been moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural grounding resistance. Perform tests by two-point method according to IEEE 81.

2. Excessive Grounding Resistance: If resistance to grounding exceeds specified value, notify Architect promptly. Include recommendations for reducing grounding resistance and a proposal to accomplish recommended work.

3. Report: Prepare test reports certified by a testing agency of grounding resistance at each test location. Include observations of weather and other phenomena that may affect test results.

3.9 ADJUSTING

A. Gate: Adjust gate to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

B. Lubricate hardware, gate operator, and other moving parts.

3.10 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's personnel to adjust, operate, and maintain gates.

END OF SECTION 323113

ADDENDUM NO. 1

DATE: January 14, 2021

TO: All Prospective Bidders

SUBJECT: 19209 – **Kaufman County Pet Adoption Center**

David Duman
2021.01.11 15:25:26-06'00'

ENCLOSURES:

- **Civil Plan Change Narrative dated January 13, 2021**
- **Revised Civil drawings dated January 13, 2021**
- **Revised sheet AS101 January 14, 2021**
- **Revised sheet AS102 January 14, 2021**
- **Revised sheet A101 January 14, 2021**
- **Revised sheet A101B January 14, 2021**
- **Revised sheet A102 January 14, 2021**
- **Revised sheet A102B January 14, 2021**
- **Revised sheet A104 January 14, 2021**
- **Revised sheet A110 January 14, 2021**
- **Revised sheet A110B January 14, 2021**
- **Revised sheet A405 January 14, 2021**
- **Revised sheet A605 January 14, 2021**
- **Revised sheet A606 January 14, 2021**
- **Revised sheet A608 January 14, 2021**
- **Revised sheet A701 January 14, 2021**
- **Revised sheet A701B January 14, 2021**

Please reference your contract documents and proposal to accommodate the following changes. These revisions or clarifications are hereby made to the original Permit/ Construction Set documents dated December 11, 2020 and therefore included as such.

ARCHITECTURAL

1. Revised sheet AS101 – provide accessible curb ramp at sidewalk adjacent to Gate G-3..

2. Revised sheet AS102 – delete concrete mowstrip adjacent to the concrete sidewalk at the Outdoor Play Yard, and revise the concrete sidewalk at this location to be 6’-0” wide.

3. Revised sheets AS101 and AS102 – revise Van Accessible parking width to be 11’-0” and Access Aisle to be 7’-0” wide.

4. Revised sheets A101 and A101B – refer to revised partition dimensions of Unisex 122, Unisex Shower 123, I.T. 113, Cat Iso. 121, and ACO 119.

5. Revised sheets A102 and A102B – refer to revised layout of Unisex 122, Unisex Shower 123, I.T. 113, Cat Iso. 121, ACO 119, Men’s 114, and Women’s 115. An accessible bench has been added to Unisex Shower 123, and a double-tier locker has been deleted.

6. Revised sheet A104– refer to revised enlarged plan of Unisex 122, Unisex Shower 123, I.T. 113, Cat Iso. 121, ACO 119, Men’s 114, and Women’s 115. An accessible bench has been added to Unisex Shower 123, and a double-tier locker has been deleted.

7. Revised sheets A110 and A110B – refer to revised Reflected Ceiling Plan of Unisex 122, Unisex Shower 123, I.T. 113, Cat Iso. 121, and ACO 119. (1) Light Fixture Type-C1 has been deleted in Unisex 122.

8. Revised sheet A405 – refer to revised detail 3/A405 for additional information on providing epoxy finish on the underside of the Kennel Partition CMU over the trench drain.

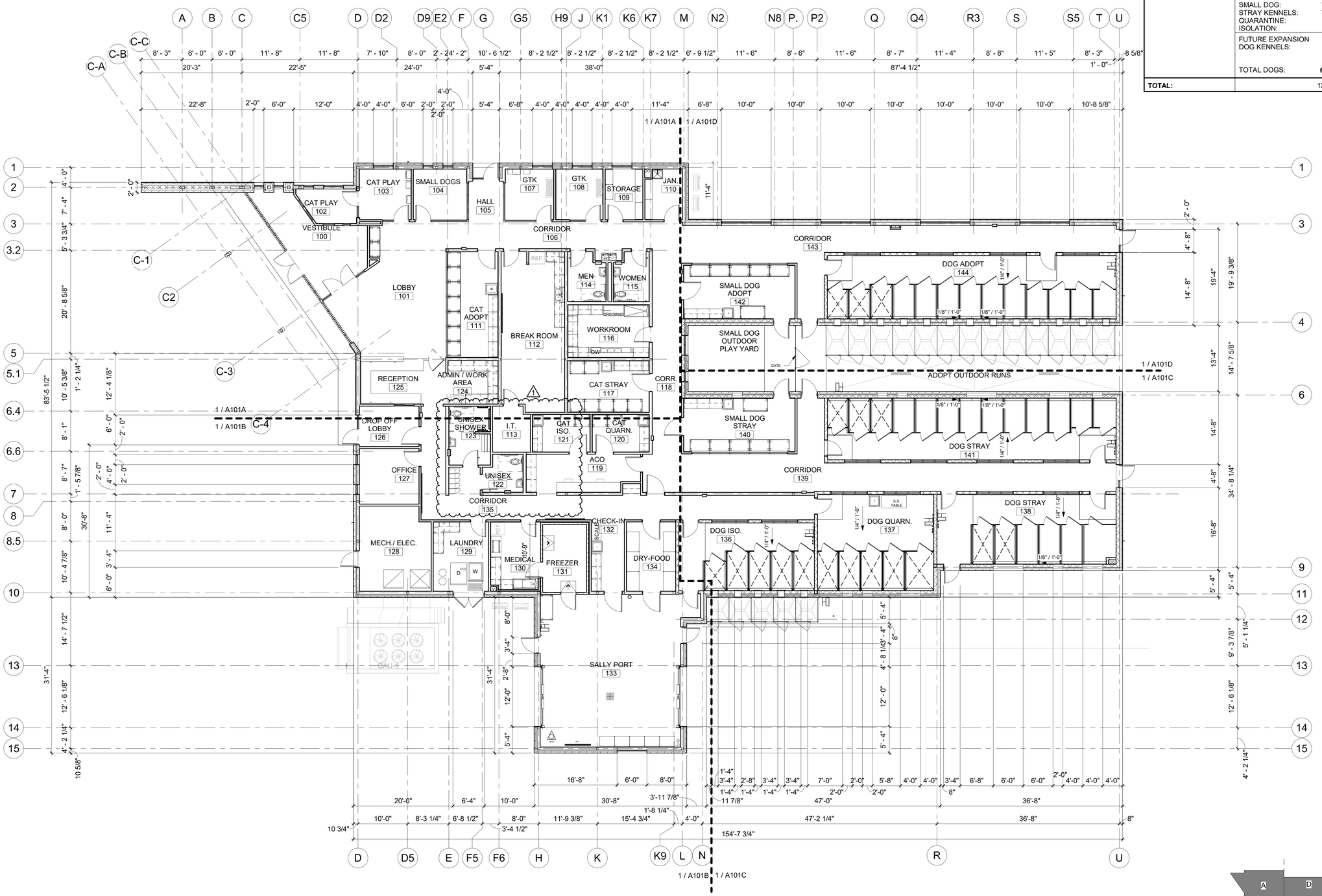
9. Revised sheet A605 – refer to revised Interior Elevations of ACO 119, Unisex 122, and Locker Area.

10. Revised sheet A606 – refer to revised Interior Elevations of Unisex 123.

11. Revised sheet A608 – refer to revised Interior Elevation of Corridor 135.

12. Revised sheets A701 and A701B – refer to revised Room Finish Plans of Unisex 122, Unisex Shower 123, I.T. 113, Cat Iso. 121, and ACO 119.

BUILDING AREA			
GROSS AREA:	12,560 SF		
COVERED OUTDOOR RUNS:	660 SF		
ENTRY & GTK COURTYARD COVERED SPACES:	895 SF		
CAT CAPACITY:	ADOPTION:	21	
	CAT PLAY:	8	
	STRAY:	21	
	QUARANTINE:	6	
	ISOLATION:	6	
	TOTAL CATS:	58	58
DOG CAPACITY:	**ADOPTION**		
	SMALL DOG:	12	
	ADOPT KENNELS:	13	
	STRAY		
	SMALL DOG:	12	
	STRAY KENNELS:	19	
	QUARANTINE:	5	
	ISOLATION:	5	
	FUTURE EXPANSION DOG KENNELS:		30
	TOTAL DOGS:	66	66
TOTAL:		124	154



1 OVERALL DIMENSION FLOOR PLAN

A101 SCALE: 1/8" = 1'-0"

TRUE NORTH PLAN NORTH

KEY PLAN

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THE STATE OF TEXAS KAUFMAN COUNTY

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS

PERMIT / CONSTRUCTION SET

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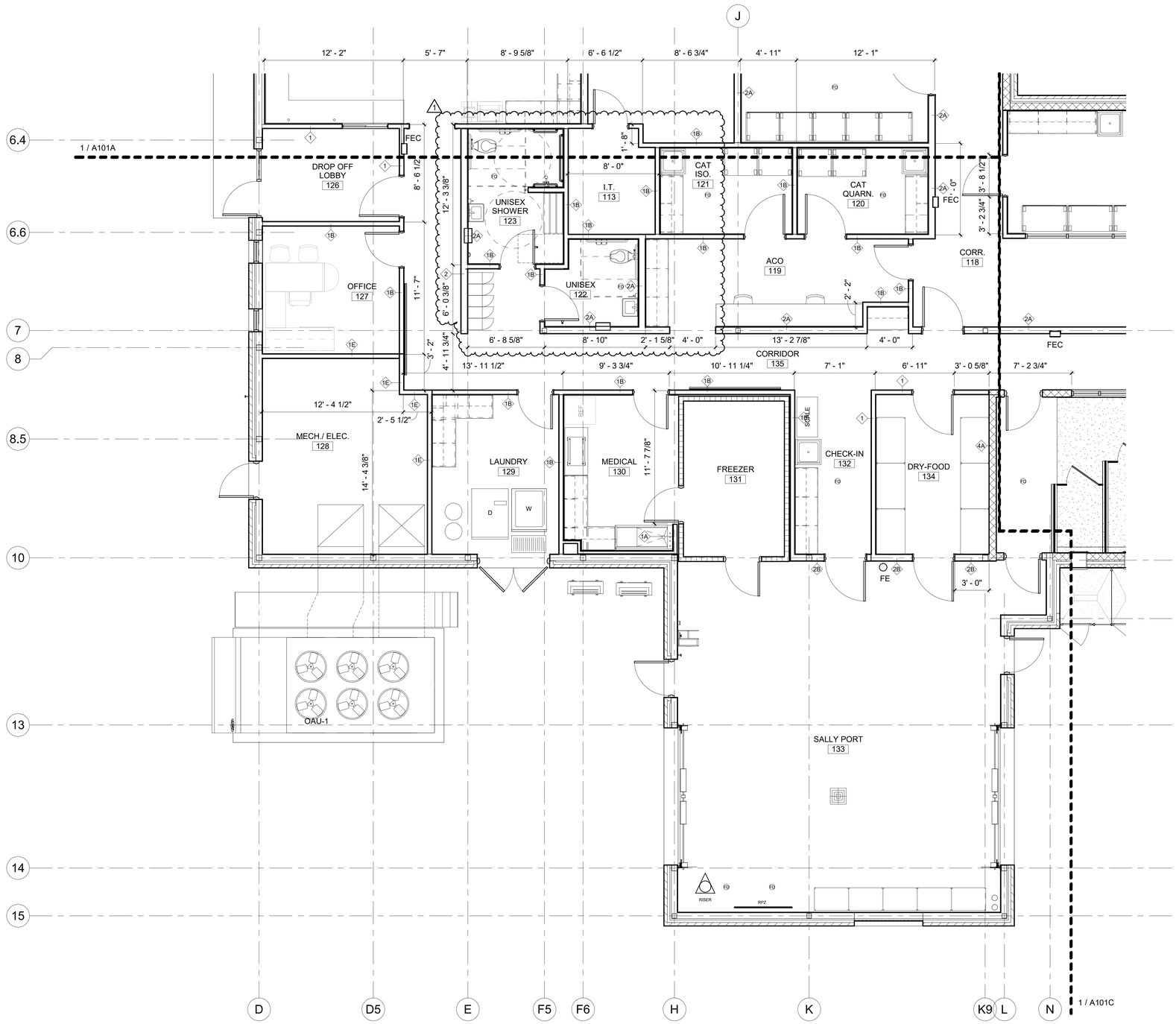
FILE: C:\Users\calvina\Documents\19209_KAS_Central_calvina.rvt
DATE: DECEMBER 11, 2020
DRAWN BY: Author
SCALE: AS NOTED

SHEET TITLE: OVERALL DIMENSION FLOOR PLAN

A101

SHEET - OF -

1/13/2021 9:32:00 PM



WALL TYPE	CONSTRUCTION
1 3 5/8" METAL STUDS 16" O.C. WITH 5/8" GYP. BD. EACH SIDE TO 6" ABOVE CEILING.	4 7/8"
1A 3 5/8" METAL STUDS 16" O.C. WITH 5/8" GYP. BD. ONE SIDE TO 6" ABOVE CEILING.	4 1/4"
1B 3 5/8" METAL STUDS 16" O.C. WITH 5/8" GYP. BD. EACH SIDE, TO 6" ABOVE CEILING W/ SOUND BATT INSULATION IN WALL CAVITY.	4 7/8"
1C 3 5/8" METAL STUDS 16" O.C. WITH 5/8" GYP. BD. ONE SIDE TO 6" ABOVE CEILING, W/ SOUND BATT INSULATION IN WALL CAVITY.	4 1/4"
1D 3 5/8" METAL STUDS 16" O.C. WITH 5/8" GYP. BD. EACH SIDE - EXTEND TO BOTTOM OF ROOF DECK. 1E SAME AS (1D)- WITH SOUND BATT INSULATION IN WALL CAVITY.	4 7/8"
2 6" METAL STUDS 16" O.C. WITH 5/8" GYP. BD. EACH SIDE TO 6" ABOVE CEILING	7 1/4"
2A 6" METAL STUDS 16" O.C. WITH 5/8" GYP. BD. EACH SIDE TO 6" ABOVE CEILING W/ SOUND BATT INSULATION IN WALL CAVITY.	7 1/4"
2B 6" METAL STUDS 16" O.C. WITH 5/8" GYP. BD. EACH SIDE - EXTEND TO BOTTOM OF ROOF DECK	7 1/4"
3 6" GLAZED CMU TO 4'-8" A.F.F. (GLAZED BOTH SIDES) 6" CMU STARTER COURSE.	5 5/8"
4 8" GLAZED CMU TO 7'-2" A.F.F. THEN 8" CMU FROM 7'-2" TO ONE COURSE ABOVE CEILING. (GLAZED ON KENNEL SIDE ONLY) 6" CMU STARTER COURSE.	7 5/8"
4A 8" GLAZED CMU TO 7'-2" A.F.F. THEN 8" CMU FROM 7'-2" TO DECK. (GLAZED ON KENNEL SIDE ONLY) 6" CMU STARTER COURSE.	7 5/8"
4B 8" GLAZED CMU TO 7'-2" A.F.F. THEN 8" CMU FROM 7'-2" TO BOTTOM OF ROOF JOISTS - REFER TO STRUCTURAL. (GLAZED ON KENNEL SIDE ONLY) 6" CMU STARTER COURSE.	7 5/8"
4C 8" GLAZED CMU TO 3'-2" A.F.F. (GLAZED ON KENNEL SIDE ONLY). 6" CMU STARTER COURSE. THEN WALL TYPE 2A ABOVE WINDOW	7 5/8"
4D 8" GLAZED CMU TO 7'-2" A.F.F. (GLAZED ON BOTH SIDES) THEN 8" CMU FROM 7'-2" TO ONE COURSE ABOVE CEILING 6" CMU STARTER COURSE.	7 5/8"

NOTE:

ABUSE RESISTANT GYPSUM WALL BOARD IN ALL CORRIDORS.

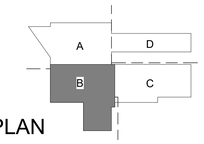
REFER TO SPECIFICATIONS FOR LOCATIONS OF MOISTURE-RESISTANT GYPSUM WALL BOARD.

1 ENLARGED DIMENSION & PARTITION FLOOR PLAN

A101B SCALE: 1/4" = 1'-0"

TRUE NORTH PLAN NORTH

KEY PLAN



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REGISTERED ARCHITECT DAVID G. DUMAN 14305 STATE OF TEXAS

David Duman 2021.01.11 15:25:26-06'00'

THE STATE OF TEXAS KAUFMAN COUNTY

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS

PERMIT / CONSTRUCTION SET

REVISIONS:

NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	01-14-21

PROJECT NO.: 19209
FILE: C:\Users\calvina\Documents\19209_KAS_Central_calvina.rvt
DATE: DECEMBER 11, 2020
DRAWN BY: Author
SCALE: AS NOTED

SHEET TITLE:
ENLARGED DIMENSION & PARTITION FLOOR PLAN

A101B

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GENERAL NOTES - FLOOR PLAN

A. DIMENSIONS AS SHOWN ARE TO FACE OF STUD, CMU OR FACE OF BRICK, CONCRETE, UNLESS NOTED OTHERWISE (UNO).

B. PROVIDE IN WALL BLOCKING FOR ALL CABINETS, TOILET ACCESSORIES, AND OTHER WALL MOUNTED ITEMS.

C. CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND CHARACTERISTICS OF ALL WORK, EQUIPMENT, AND ITEMS SUPPLIED BY THE OWNER, OR OTHERS, WITH THE SUPPLIER PRIOR TO THE START OF THE RELATED WORK.

D. COORDINATE ALL LIGHTING, DUCTS, DIFFUSERS, SOLATUBES AND ROOF PENETRATIONS WITH MEP DRAWINGS TO AVOID CONFLICT WITH STRUCTURE, AND OTHER BUILDING SYSTEMS.

E. CONTRACTOR TO PROVIDE 1-1/2" METAL STUDS IN FURR-OUTS WHERE REQUIRED FOR CONDUIT, WHEN DIAGONAL BRACING PROHIBIT CONDUIT RUNS. FIELD COORDINATE EXTENT WITH ARCHITECT.

F. WHERE FLOOR DRAINS (FD) ARE SHOWN SLOPE FLOOR IN ROOM TO FLOOR DRAIN. COMPLY WITH TDLR FOR MAX SLOPES. COORDINATE WITH STRUCTURE.

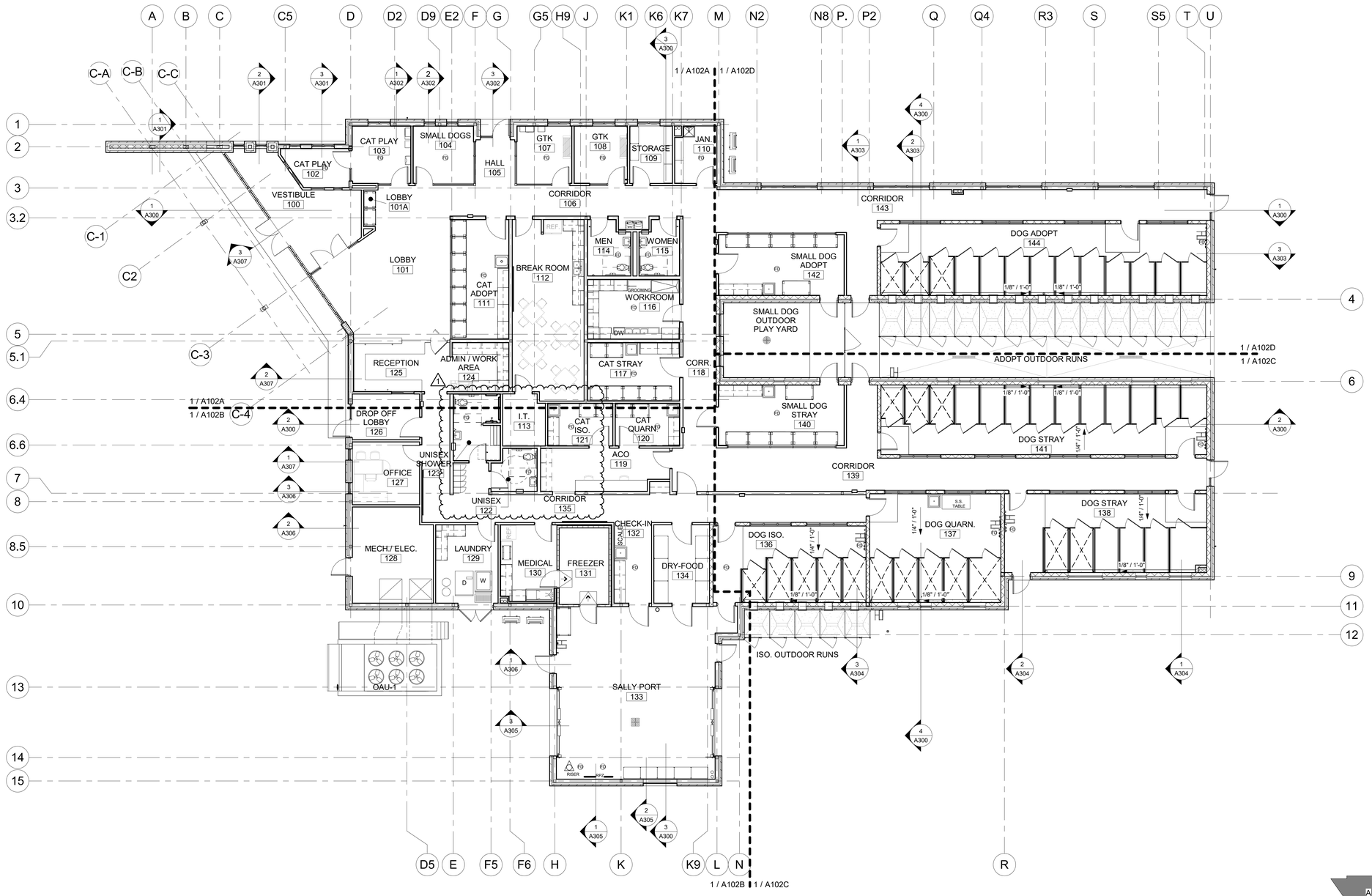
G. ALL MASONRY WALLS SHALL BE REINFORCED WITH STEEL PER THE SPECIFICATIONS AND/OR STRUCTURAL DRAWINGS. ADDITIONAL COST WILL NOT BE AWARDED FOR MASONRY WALL REINFORCEMENT.

H. DO NOT SUSPEND ANY ITEMS FROM BOTTOM OF JOIST CHORD, HORIZONTAL BRIDGING, X-BRACING, PIPING OR CONDUITS. ALL ROOF LOADS EXCEEDING 150 LBS SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.

I. ALL EXPOSED WALL MOUNTED CONDUITS, BUS GUTTERS, JUNCTION BOXES, PANEL BOXES, METERS, PIPES, ETC ARE TO BE THREE (3) COAT PAINTED WITH COLOR TO BE SELECTED BY THE ARCHITECT. ALL EXPOSED CONDUIT PIPES, JUNCTION BOXES, ROOF SCUTTLES, ETC ABOVE THE ROOF BOTH IN MID FIELD AREAS AND ON BACKS OF PARAPETS ARE TO BE THREE (3) COAT PAINTED. COLOR TO BE SELECTED BY ARCHITECT.

J. UNLESS OTHERWISE INDICATED, EACH SUBCONTRACTOR AND GENERAL CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND SUPPORTING ALL ITEMS FROM THE ROOF STRUCTURE FOR GRAVITY LOADS AND TO RESIST SEISMIC MOVEMENT AS REQUIRED BY ALL APPLICABLE CODES (ANY BRACING WITH A SIGNIFICANT VISUAL IMPACT IS SUBJECT TO ARCHITECT FOR APPROVAL).

K. CONTRACTOR IS RESPONSIBLE FOR PROVIDING HINGED ACCESS PANELS AT ALL LOCATIONS REQUIRING ACCESS TO MEP ITEMS REGARDLESS AS TO WHETHER THEY MAY BE SPECIFICALLY IDENTIFIED ON THE CONSTRUCTION DOCUMENTS. CONTRACTOR IS REQUIRED FOR COORDINATING ALL ACCESS PANEL LOCATIONS FOR DRYWALL, TILE, E.I.F.S. AND PLASTER WORK WITH ALL TRADES.



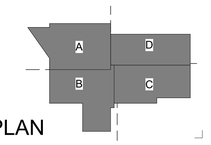
1 REFERENCE FLOOR PLAN

A102 SCALE: 1/8" = 1'-0"

TRUE NORTH

PLAN NORTH

KEY PLAN



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SHEET TITLE:
OVERALL REFERENCE FLOOR PLAN

A102

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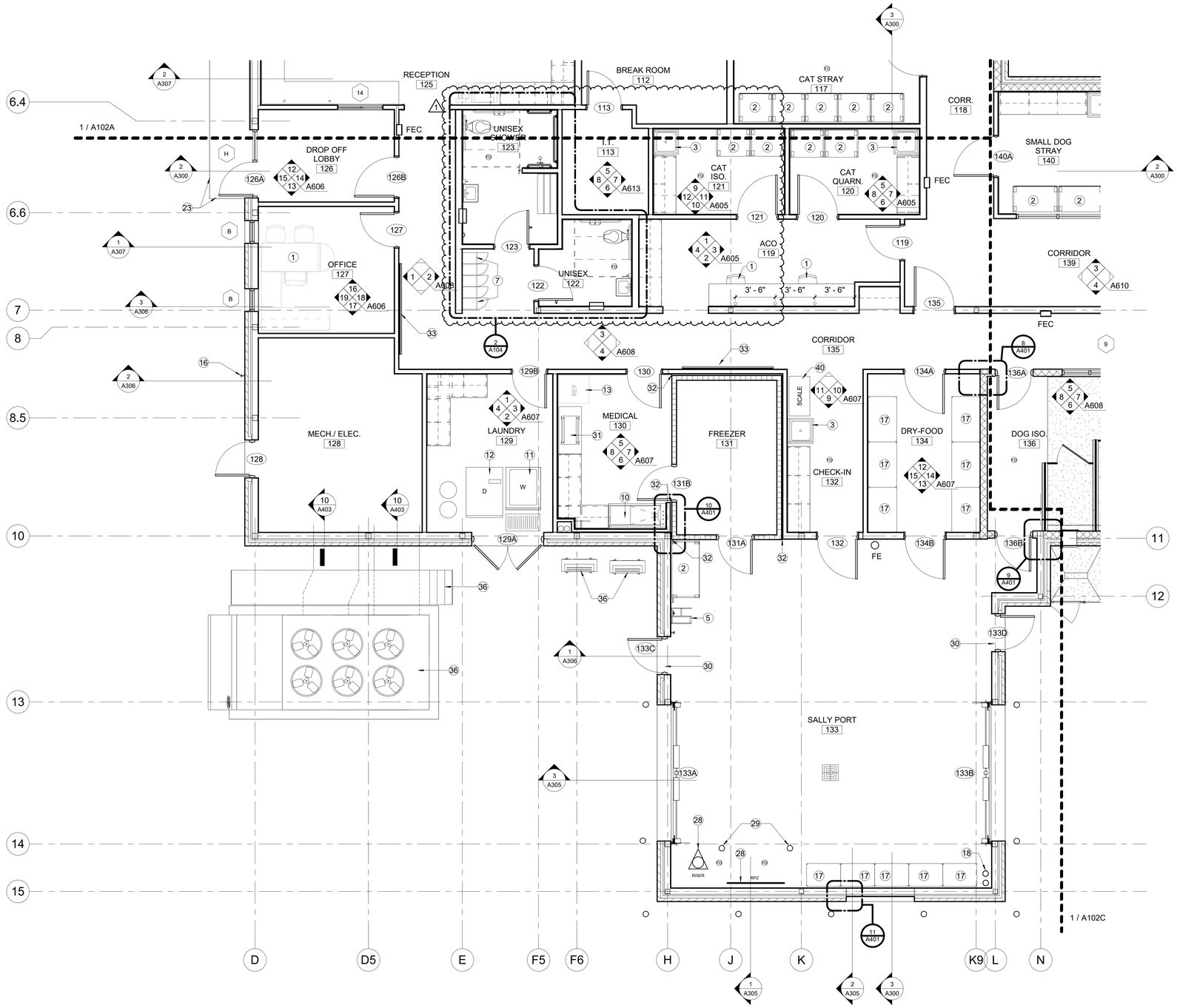

1 ENLARGED REFERENCE FLOOR PLAN

A102B SCALE: 1/4" = 1'-0"

FLOOR PLAN NOTES

1 FURNITURE/ EQUIPMENT - NOT IN CONTRACT (N.I.C.)
2 CAGES AS SPECIFIED
3 SINK - REFER TO PLUMBING
4 MOPSINK - REFER TO PLUMBING
5 HOSE REEL, HOSE STATION, HOSE BIB, VALVE MIXING BOX, - REFER TO PLUMBING
6 GUILLOTINE KENNEL TRANSFER DOOR WITH SALOON STYLE EXTERIOR DOOR, TYP.
7 LOCKERS AS SPECIFIED
8 3-COMPARTMENT SINK - REFER TO PLUMBING
9 TRENCH DRAIN - REFER TO PLUMBING
10 BI-LEVEL TUB - REFER TO PLUMBING
11 COMMERCIAL WASHER - REFER TO PLUMBING
12 COMMERCIAL DRYER - REFER TO PLUMBING
13 REFRIGERATOR BY OWNER
14 STAINLESS STEEL TABLE AS SPECIFIED
15 DOG RESTING BENCH AS SPECIFIED
16 NON-FREEZE HOSE BIBB - REFER TO PLUMBING
17 SHELVING AS SPECIFIED
18 EXPOSED ROOF & OVERFLOW DRAIN DOWNPOUTS - REFER TO PLUMBING
19 TRENCH DRAIN - REFER TO PLUMBING
19 TRENCH DRAIN NOZZLE - REFER TO PLUMBING
20 TRENCH DRAIN - REFER TO PLUMBING
20 TRENCH DRAIN NOZZLE - REFER TO PLUMBING
21 KENNEL TOP AS SPECIFIED SHOWN WITH "X"
22 AREA DRAIN - REFER TO CIVIL
23 LINE OF BUILDING STRUCTURAL SLAB - REFER TO STRUCTURAL
24 OUTDOOR RUN KENNEL ENCLOSURE AS SPECIFIED
25 ELECTRIC WATER COOLER - REFER TO PLUMBING
26 GROOMING TUB - REFER TO PLUMBING
27 STAINLESS STEEL DRYING TABLE
28 FIRE RISER & RPZ - COORDINATE WITH PLUMBING & CIVIL
29 BOLLARDS - PAINTED, TYP. COORDINATE EXACT LOCATION WITH RIRE RISER & RPZ CLEARANCE REQUIREMENTS
30 INTAKE LOUVER ABOVE DOORS - REFER TO MECHANICAL AND EXTERIOR ELEVATIONS..
31 MOBILE LIFT TABLE
32 STAINLESS STEEL CLOSER STRIPS FOR FREEZER
33 MARKERBOARD AS SPECIFIED
34 TV / MONITOR BY OWNER
36 HVAC EQUIPMENT - REFR TO MECHANICAL
37 CAT ENRICHMENT BOXES / SHELVES AS SPECIFIED
38 SLOPE WITHIN DOOR CLEARANCE TO HAVE A RUNNING SLOPE NOT STEEPER THAN 1:20, OR 5%
39 PREFINISHED ALUMINUM COLUMN COVERS AS SPECIFIED
40 SCALE AS SPECIFIED
41 GUILLOTINE DOOR AS SPECIFIED
42 WINDOW WITH INTEGRAL BLINDS AS SPECIFIED
43 12"x30" PRECAST CONRETE. SPLASHBLOCKS AS SPECIFIED

TRUE NORTH
PLAN NORTH

KEY PLAN

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ENLARGED REFERENCE FLOOR PLAN

A102B

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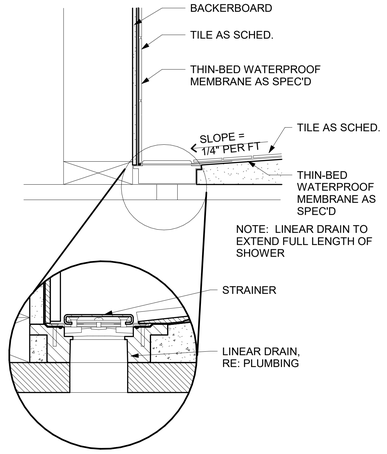
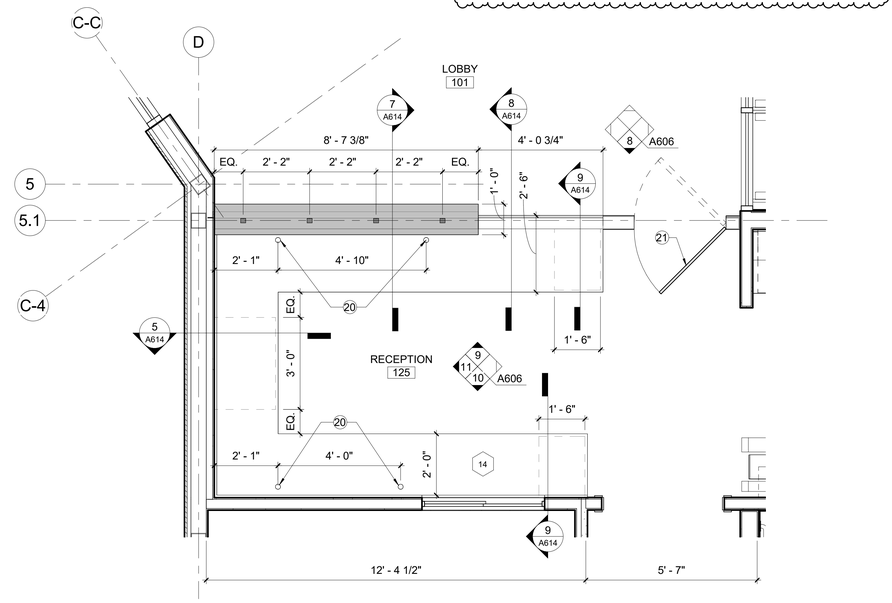


4 SHOWER DRAIN DETAIL

A104 SCALE: 3" = 1'-0"

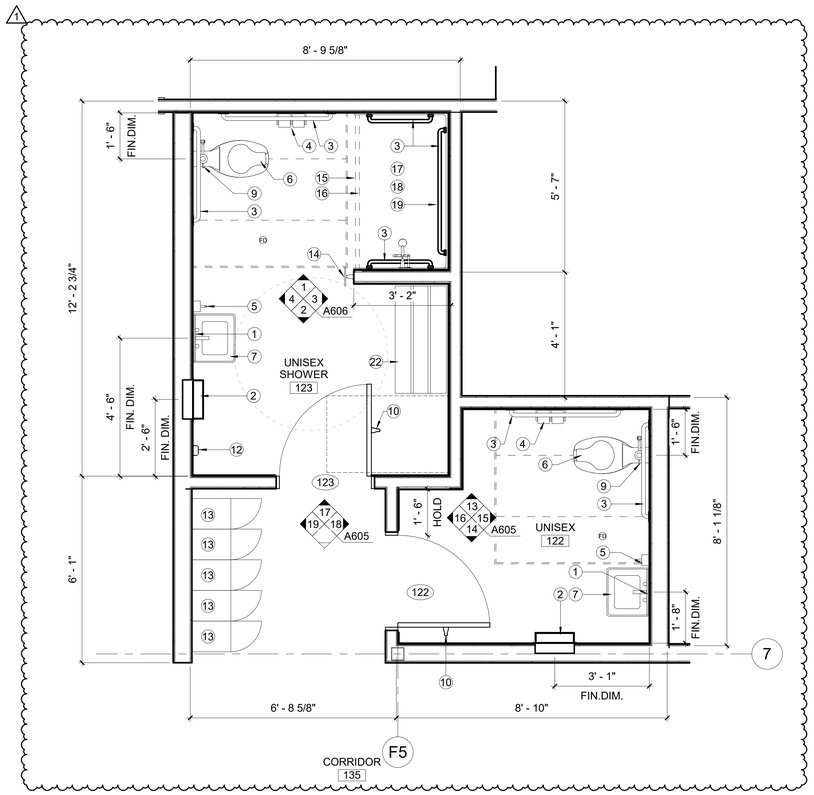
KEY NOTES

1. MIRROR AS SPECIFIED
2. PAPER TOWEL DISPENSER / WASTE RECEPTACLE
3. GRAB BARS - TYPICAL
4. TOILET PAPER DISPENSER
5. SOAP DISPENSER - COORDINATE EXACT LOCATION WITH OWNER
6. WATER CLOSET - REFER TO PLUMBING
7. LAVATORY - REFER TO PLUMBING
8. SANITARY NAPKIN WASTE RECEPTACLE
9. FLUSH VALVE TO BE LOCATED ON THE WIDE-APPROACH SIDE
10. ROBE HOOK
11. ELECTRIC WATER COOLER - REFER TO PLUMBING
12. MIST DEODORIZER - MOUNT AT 8'-0" A.F.F.
13. DOUBLE TIER LOCKERS 15"W x 18"D x 36"H (72"H) AS SPECIFIED
14. TOWEL HOOK - MOUNT AT 4'-0" A.F.F.
15. SLOPING EDGE TILE AT SHOWER THRESHOLD AS SPECIFIED. REFER TO FINISH DETAILS SHEET
16. SHOWER ROD AND CURTAIN AS SPECIFIED. ENSURE SHOWER CURTAIN ROD IS AT LEAST 80" A.F.F.
17. ADA SHOWER - PROVIDE SHOWER ACCESSORIES AS SPECIFIED
18. PROVIDE SOAP DISH AND BAR AS SPECIFIED
19. LINEAR TRENCH DRAIN - REFER TO PLUMBING
20. GROMMET AS SPECIFIED
21. BI-SWING MILLWORK GATE WITH HEAVY DUTY HINGES.
22. ADA COMPLIANT 42"W X 20"D X 18"H SOLID WOOD 'BUTCHER BLOCK' BENCH WITH LIGHT FINISH BY SALSBURY INDUSTRIES - NOT INTENDED TO BE SECURED TO FLOOR.



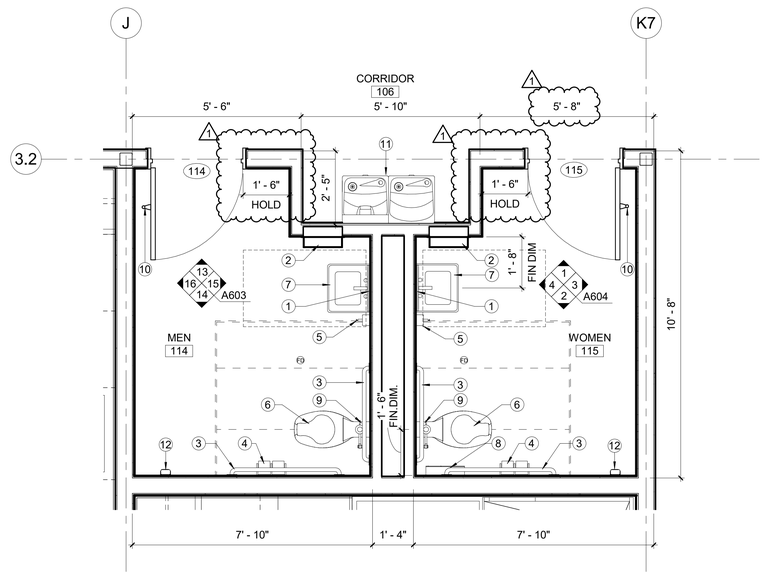
3 ENLARGED RECEPTION

A104 SCALE: 1/2" = 1'-0"



2 ENLARGED TOILET PLANS & SHOWER

A104 SCALE: 1/2" = 1'-0"



1 ENLARGED MENS & WOMENS

A104 SCALE: 1/2" = 1'-0"

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David Duman 2021.01.11 15:25:26-06'00'

THE STATE OF TEXAS KAUFMAN COUNTY

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS
PERMIT / CONSTRUCTION SET

REVISIONS:

NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	01-14-21

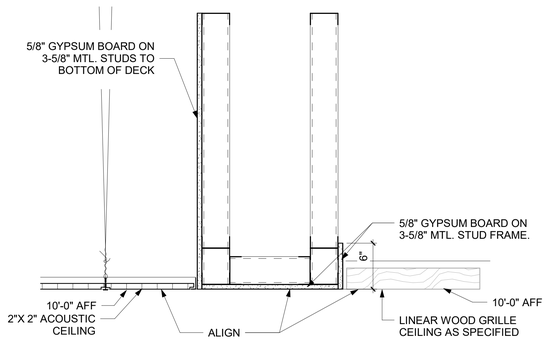
PROJECT NO.: 19209
FILE: C:\Users\calvina\Documents\19209_KAS_Central_calvina.rvt
DATE: DECEMBER 11, 2020
DRAWN BY: Author
SCALE: AS NOTED

SHEET TITLE: ENLARGED PLANS

A104

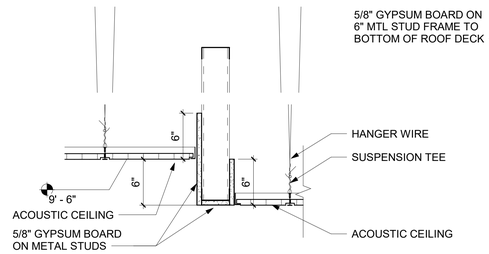
SHEET - OF -

1/13/2021 9:32:31 PM



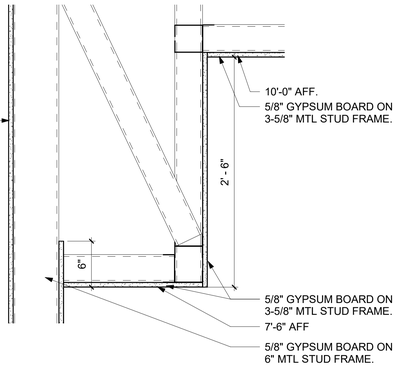
4 CEILING DETAIL

A110 SCALE: 1 1/2" = 1'-0"



3 CEILING DETAIL

A110 SCALE: 1 1/2" = 1'-0"



2 CEILING DETAIL

A110 SCALE: 1 1/2" = 1'-0"

GENERAL NOTES - RCP

A. COORDINATE ALL LOCATIONS OF ALL LIGHTS, DIFFUSERS AND CEILING PENETRATIONS. NOTIFY ARCHITECT OF CONFLICTS FOR CLARIFICATIONS.

B. COORDINATE ALL CONTROL JOINTS (HORIZONTALLY/VERTICALLY) FOR ALIGNMENT. ANY DESCREPANCY IN ALIGNMENT, COORDINATE WITH ARCHITECT.

C. ALL CONDUIT TO BE CONCEALED ABOVE CEILING / IN WALLS.

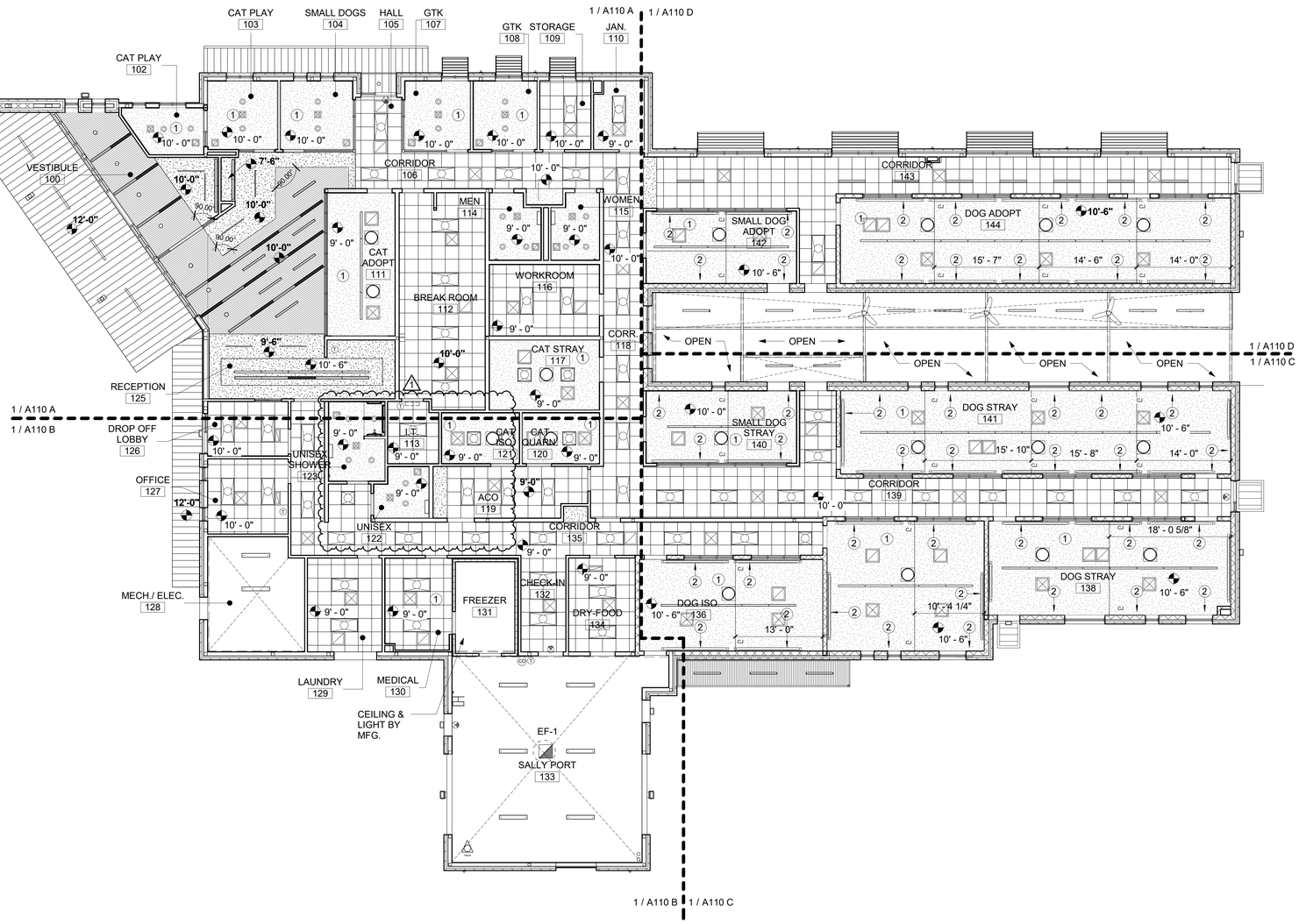
D. PRIOR TO INSTALLING CEILINGS, CONTRACTOR TO COORDINATE HEIGHTS WITH MEP REQUIRED CLEARANCES. NOTIFY ARCHITECT WITH DISCREPANCIES.

E. WHERE CEILINGS ARE LOWERED DURING CONSTRUCTION TO ACCOMMODATE ABOVE CEILING MEP WORK, THE CONTRACTOR MAY BE REQUIRED TO ADD FURR-DOWNS IN CEILINGS. THIS SHALL BE ACCOMPLISHED AT NO ADDITIONAL COST AS IT IS NOT UNCOMMON. OPTIONS SHALL BE DISCUSSED WITH ARCHITECT PRIOR TO CHANGING ANY CEILING HEIGHTS.

E. ALL CONDUIT / PIPING TO BE CONCEALED. ANY CONDUIT THAT CAN NOT BE CONCEALED AT THE METAL SOFFITS SHALL BE FIELD LOCATED TO MINIMIZE EXPOSURE. COORDINATE WITH ARCHITECT.

RCP LEGEND

- 2 x 2 ACOUSTICAL CEILING SYSTEM
- GYPSUM BOARD CEILING
- OPEN TO STRUCTURE ABOVE
- PREFINISHED FLUSH METAL SOFFIT
- SOLATUBE DAYLIGHTING SYSTEM
- CJ — CONTROL JOINT (GENERAL NOTE D)
- EXIT SIGN
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- 2' X 4' LIGHT FIXTURE
- 4" x 4' LIGHT LINEAR FIXTURE, WET LOCATION RATED
- 4" x 4' LIGHT LINEAR FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED DOWN LIGHT
- EXTERIOR WALL SCONCE



1 REFLECTED CEILING PLAN

A110 SCALE: 1/8" = 1'-0"

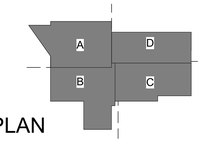
TRUE NORTH

PLAN NORTH

REFLECTED CEILING PLAN NOTES

1. ROOM TO HAVE SOUND BATT ABOVE CEILING - EXTEND TO 4' BEYOND THE ROOM PERIMETER
2. ACOUSTICAL PANEL AS SPECIFIED
3. PREFABRICATED ALUMINUM CANOPY AS SPECIFIED
4. OUTDOOR FAN AS SCHEDULED
5. ALUMINUM SUNSHADE LOUVERS AS SPECIFIED.
6. INTAKE LOUVER ABOVE FLOOR, RE: MECHANICAL
7. SIGNAGE FEATURE BELOW PREFINISH METAL SOFFIT
8. WALL MOUNTED LIGHT FIXTURE AS SCHEDULED
9. FURR-DOWN ABOVE THE FREEZER TO CLOSE THE SPACE.
10. 5/8" GYP. BD. ON WALL FRAMING TO GO TO BOTTOM OF ROOF DECK AT SHADED WALLS

KEY PLAN



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David Duman 2021.01.11 15:25:26-06'00'

THE STATE OF TEXAS KAUFMAN COUNTY

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS

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FILE: C:\Users\calvina\Documents\19209_KAS_Central_calvina.rvt
DATE: DECEMBER 11, 2020
DRAWN BY: Author
SCALE: AS NOTED

SHEET TITLE: REFLECTED CEILING PLAN

A110

SHEET - OF -

1/13/2021 9:33:02 PM

GENERAL NOTES - RCP

A. COORDINATE ALL LOCATIONS OF ALL LIGHTS, DIFFUSERS AND CEILING PENETRATIONS. NOTIFY ARCHITECT OF CONFLICTS FOR CLARIFICATIONS.

B. COORDINATE ALL CONTROL JOINTS (HORIZONTALLY/VERTICALLY) FOR ALIGNMENT. ANY DESCREPANCY IN ALIGNMENT, COORDINATE WITH ARCHITECT.

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RCP LEGEND HORIZONTAL

- 2 x 2 ACOUSTICAL CEILING SYSTEM
- GYPSUM BOARD CEILING
- OPEN TO STRUCTURE ABOVE
- PRE-FINISH FLUSH METAL SOFFIT
- SOLATUBE DAYLIGHTING SYSTEM
- CJ — CONTROL JOINT (GENERAL NOTE D)
- EXIT SIGN
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- 2' X 4' LIGHT FIXTURE
- 4" x 4' LIGHT LINEAR FIXTURE, WET LOCATION RATED
- 4" x 4' LIGHT LINEAR FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED DOWN LIGHT
- EXTERIOR WALL SCONCE

REFLECTED CEILING PLAN NOTES

1. ROOM TO HAVE SOUND BATT ABOVE CEILING - EXTEND TO 4' BEYOND THE ROOM PERIMETER
2. ACOUSTICAL PANEL AS SPECIFIED
3. PREFABRICATED ALUMINUM CANOPY AS SPECIFIED
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5. ALUMINUM SUNSHADE LOUVERS AS SPECIFIED.
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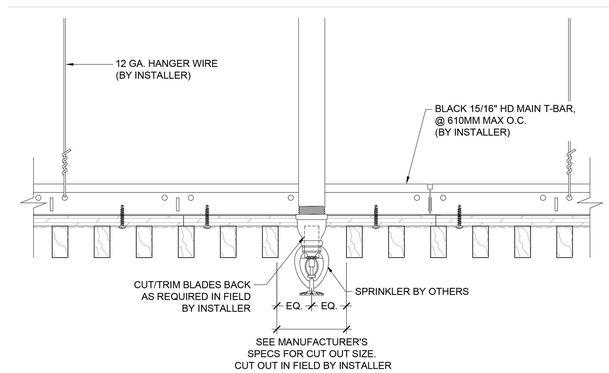
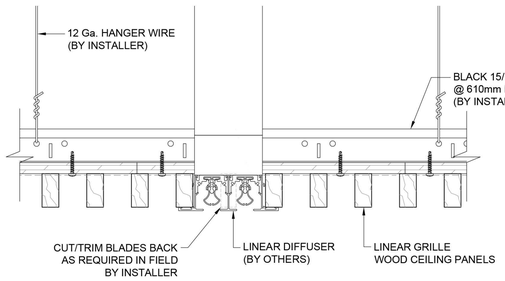
7. SIGNAGE FEATURE BELOW PREFINISH METAL SOFFIT
8. WALL MOUNTED LIGHT FIXTURE AS SCHEDULED
9. FURR-DOWN ABOVE THE FREEZER TO CLOSE THE SPACE.
10. 5/8" GYP. BD. ON WALL FRAMING TO GO TO BOTTOM OF ROOF DECK AT SHADED WALLS



4 TYPICAL SPRINKLER HEAD DETAIL

A110 B SCALE: N.T.S.



3 HVAC LINEAR DIFFUSER DETAIL

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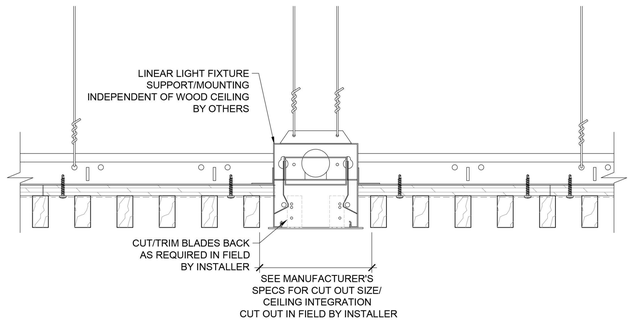

2 LINEAR LIGHT FIXTURE DETAIL

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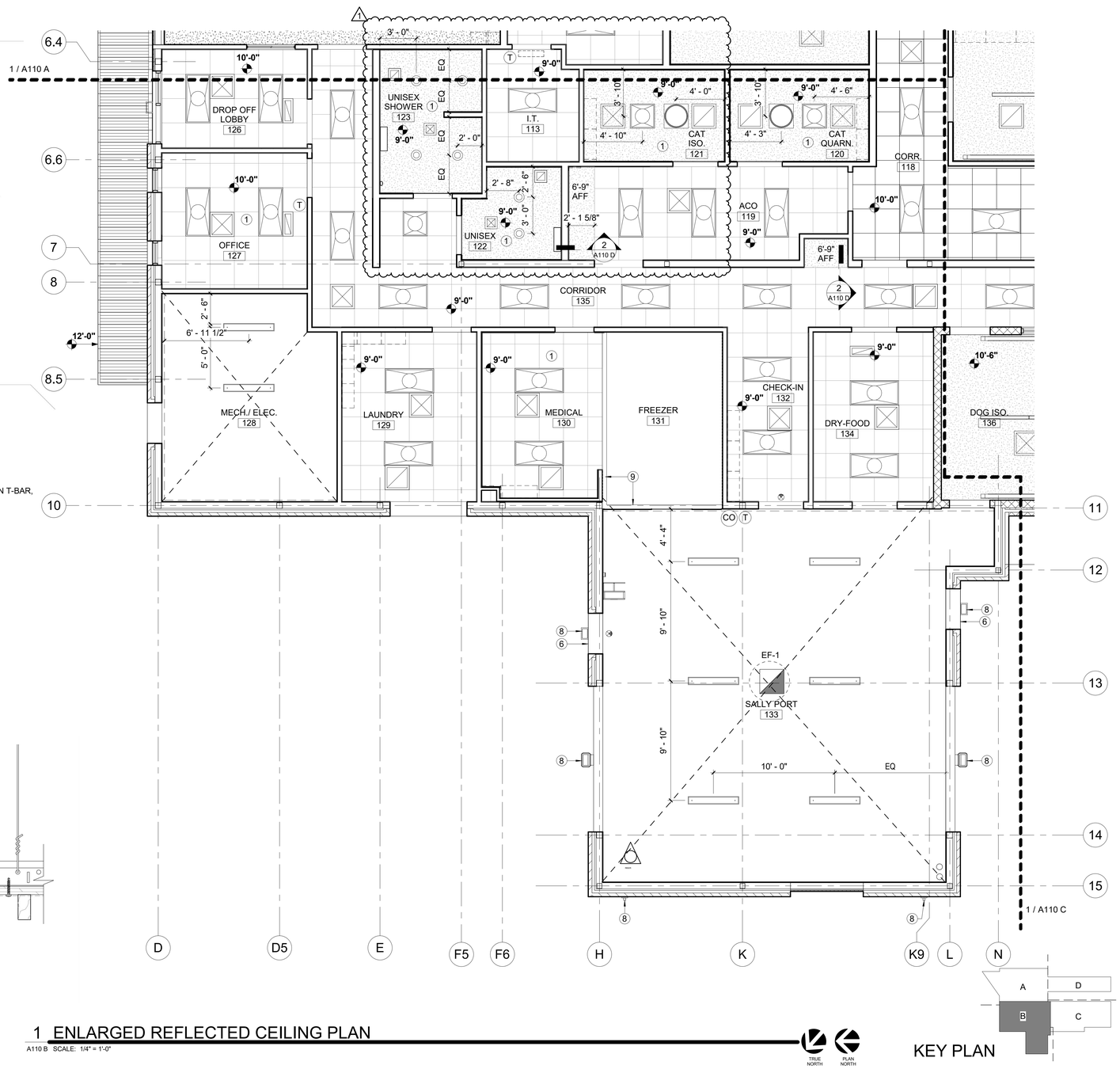

1 ENLARGED REFLECTED CEILING PLAN

A110 B SCALE: 1/4" = 1'-0"

TRUE NORTH / PLAN NORTH

KEY PLAN

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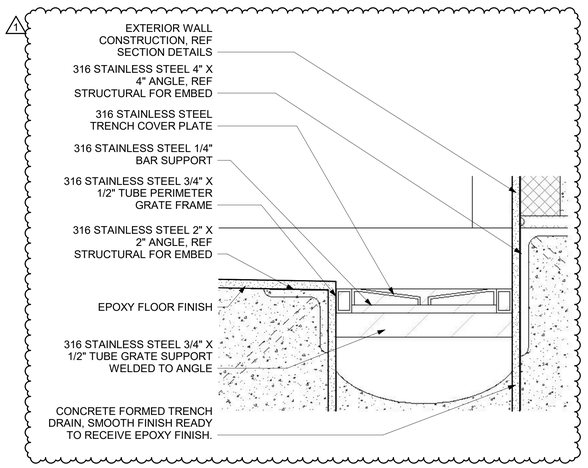
SHEET TITLE: ENLARGED REFLECTED CEILING

A110 B

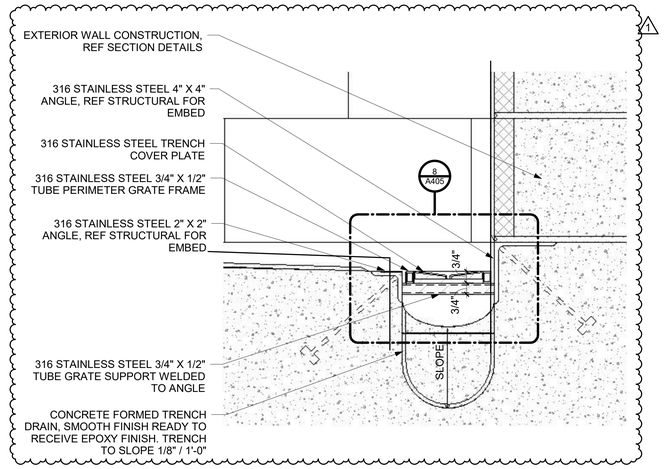
SHEET - OF -

1/13/2021 9:33:07 PM



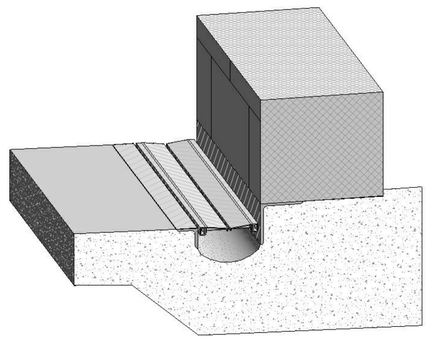
8 GRATE- DETAIL SECTION

A405 SCALE: 6" = 1'-0"



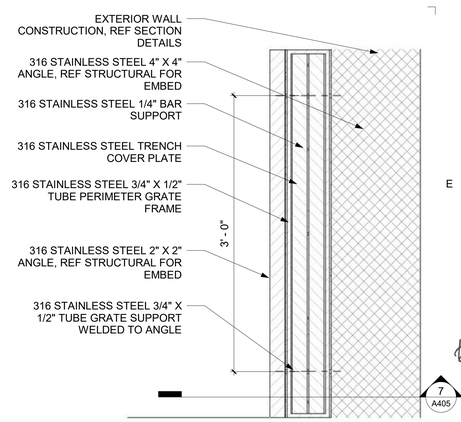
7 TRENCH DRAIN GRATE

A405 SCALE: 3" = 1'-0"



6 TRENCH DRAIN BAR GRATE

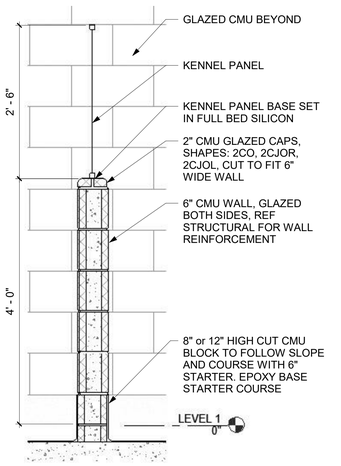
A405 SCALE: N.T.S.



NOTE: TRENCH GRATE SHOWN AT MAXIMUM LENGTH 4'-0", FOR KENNELS REQUIRING LONGER LENGHT PROVIDE MULTIPLE GRATES AS REQUIRED.

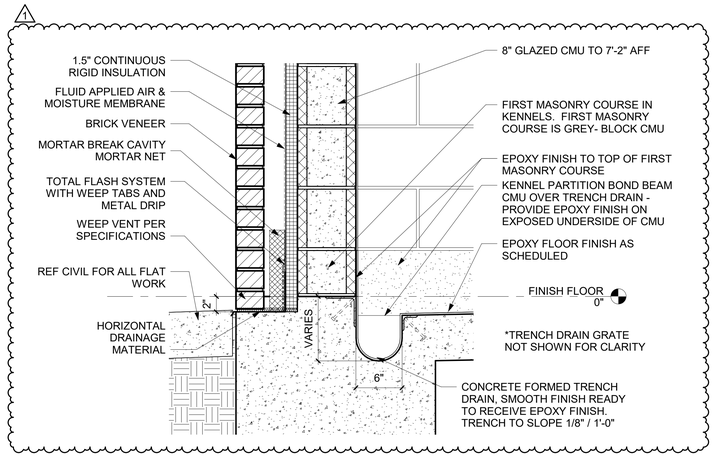
5 GRATE PLAN

A405 SCALE: 1 1/2" = 1'-0"



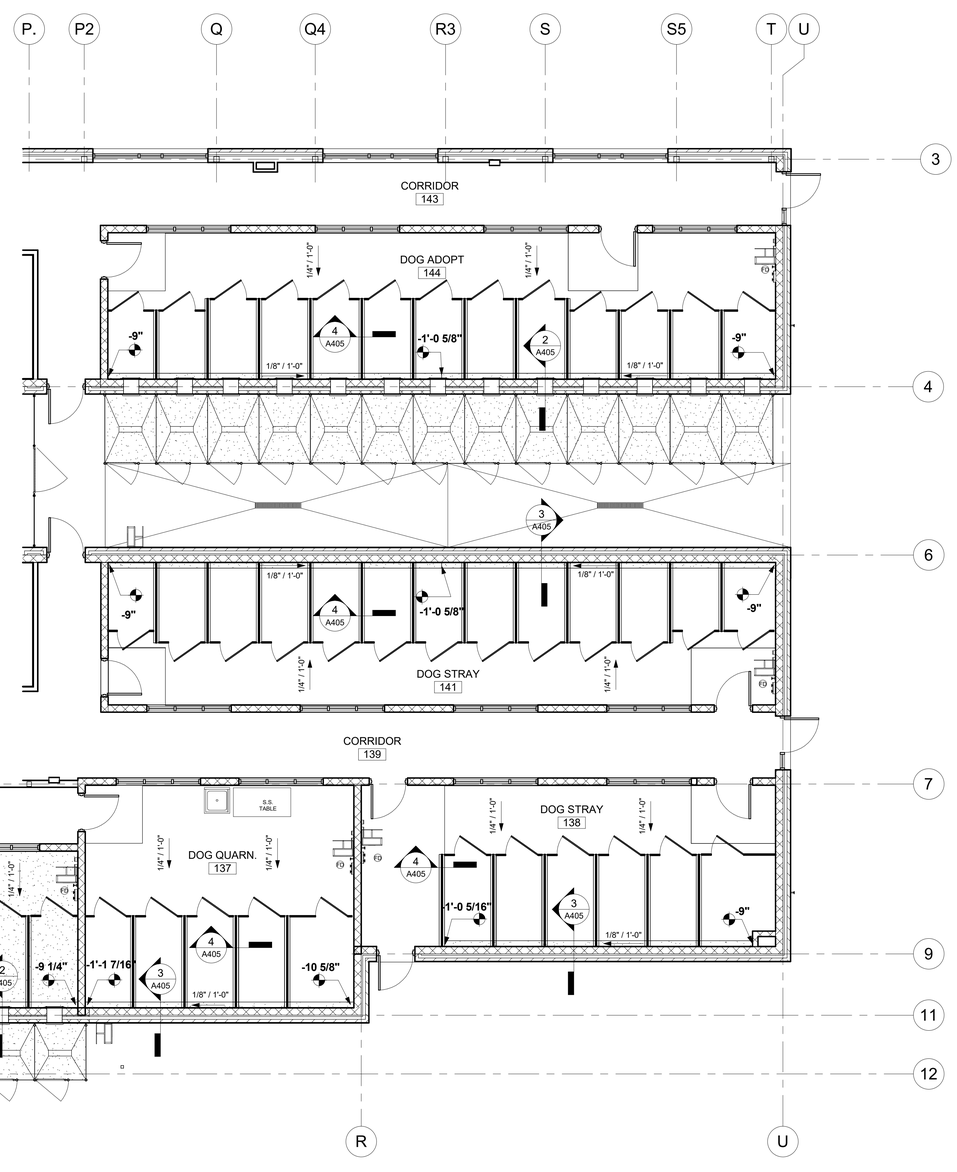
4 KENNEL PARTITION

A405 SCALE: 1" = 1'-0"



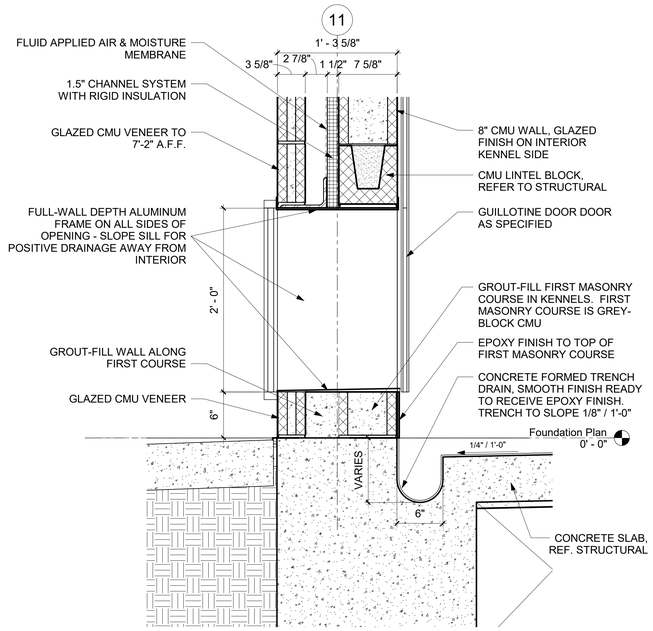
3 DETAIL

A405 SCALE: 1 1/2" = 1'-0"



1 KENNEL TRENCH ENLARGE PLAN

A405 SCALE: 3/16" = 1'-0"



2 DETAIL

A405 SCALE: 1 1/2" = 1'-0"

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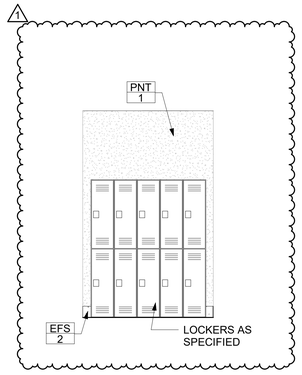
SCALE: AS NOTED

SHEET TITLE:
KENNEL TRENCH DETAILS

A405

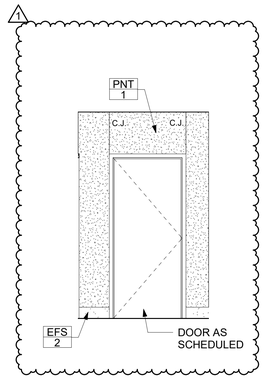
SHEET - OF -

1/13/2021 9:33:12 PM



19 LOCKER AREA ELEVATION

A605 SCALE: 3/8" = 1'-0"



18 LOCKER AREA ELEVATION

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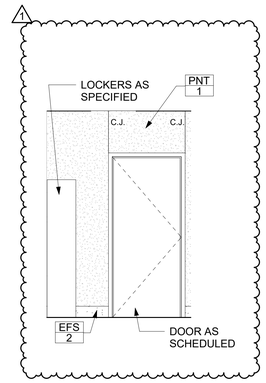

17 LOCKER AREA ELEVATION

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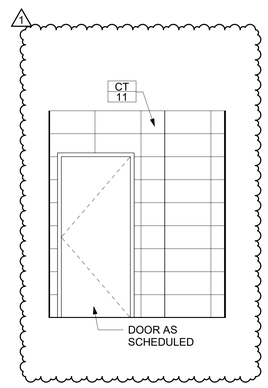
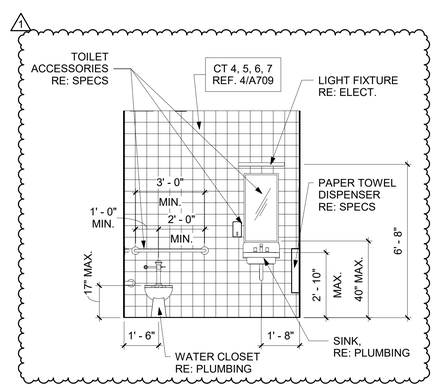


16 122 UNISEX ELEVATION

A605 SCALE: 3/8" = 1'-0"



15 122 UNISEX ELEVATION

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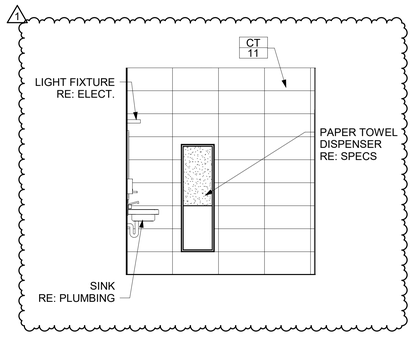

14 122 UNISEX ELEVATION

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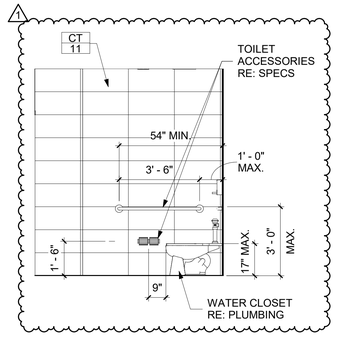
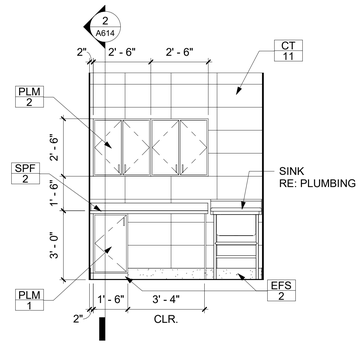


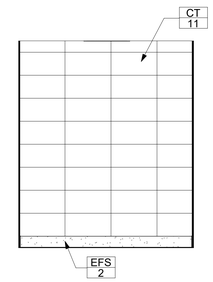
13 122 UNISEX ELEVATION

A605 SCALE: 3/8" = 1'-0"



12 121 CAT ISO. ELEVATION

A605 SCALE: 3/8" = 1'-0"



11 121 CAT ISO. ELEVATION

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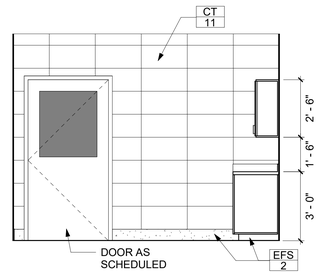

10 121 CAT ISO. ELEVATION

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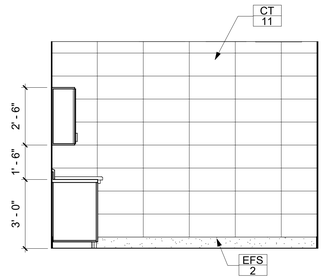

9 121 CAT ISO. ELEVATION

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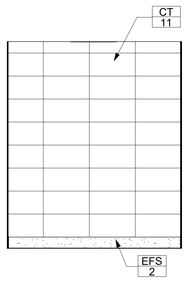
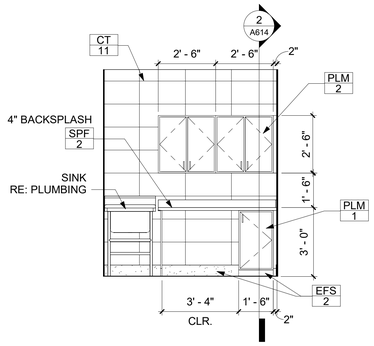


8 120 CAT QUARN. ELEVATION

A605 SCALE: 3/8" = 1'-0"



7 120 CAT QUARN. ELEVATION

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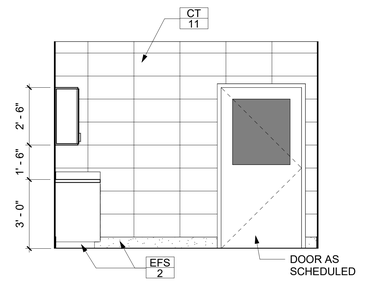

6 120 CAT QUARN. ELEVATION

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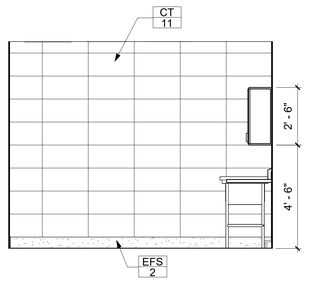

5 120 CAT QUARN. ELEVATION

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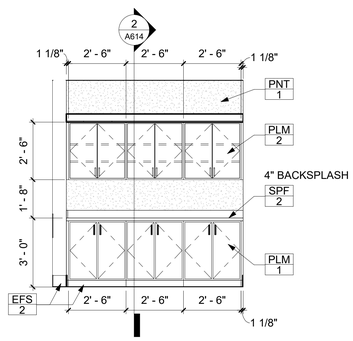

4 119 ACO ELEVATION

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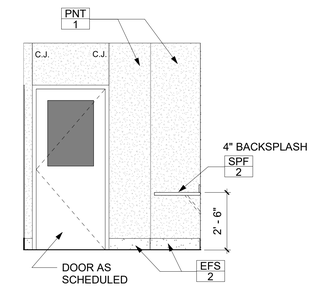

3 119 ACO ELEVATION

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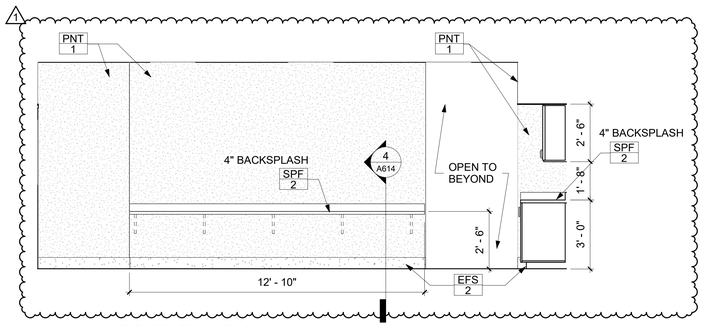

2 119 ACO ELEVATION

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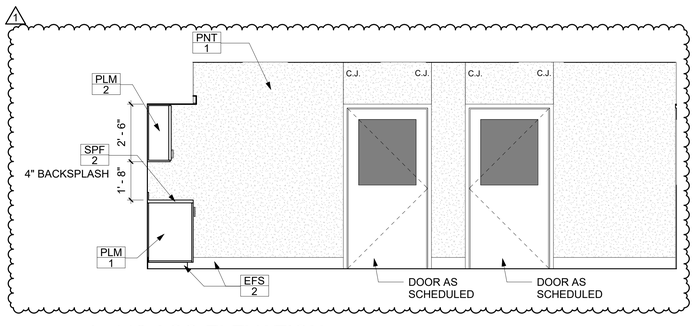

1 119 ACO ELEVATION

A605 SCALE: 3/8" = 1'-0"

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REGISTERED ARCHITECT DAVID G. DUMAN 14305 STATE OF TEXAS

David Duman
2021.01.11 15:25:26-06'00'

THE STATE OF TEXAS KAUFMAN COUNTY

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS

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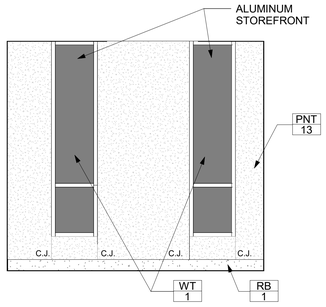
DRAWN BY: Author
SCALE: AS NOTED

SHEET TITLE:
INTERIOR ELEVATIONS

A605

SHEET - OF -

1/13/2021 9:33:22 PM



19 127 OFFICE ELEVATION

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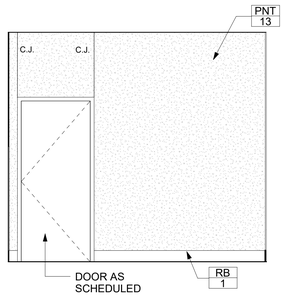

18 127 OFFICE ELEVATION

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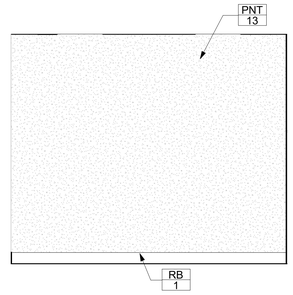

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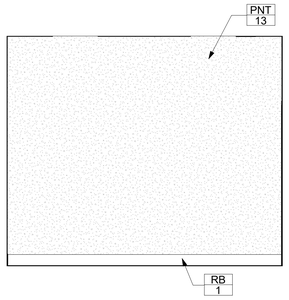

16 127 OFFICE ELEVATION

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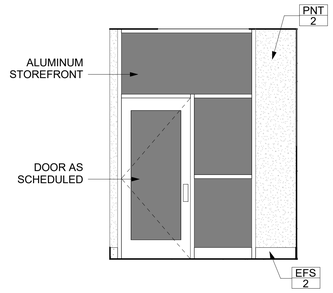

15 126 DROP OFF LOBBY ELEVATION

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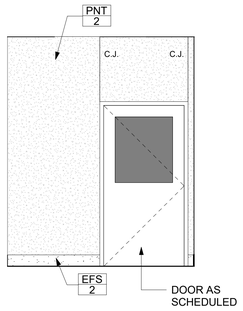

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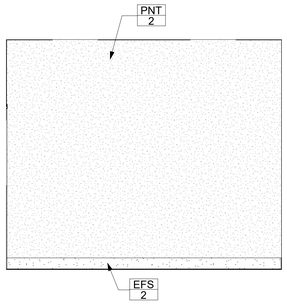

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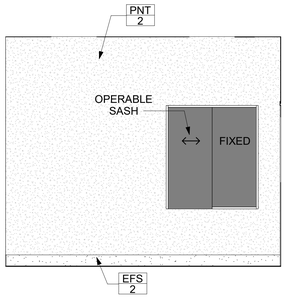

12 126 DROP OFF LOBBY ELEVATION

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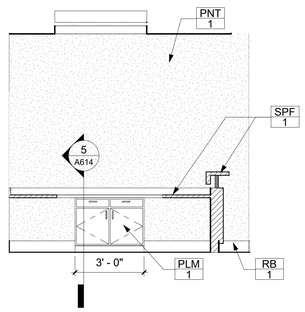

11 125 RECEPTION ELEVATION

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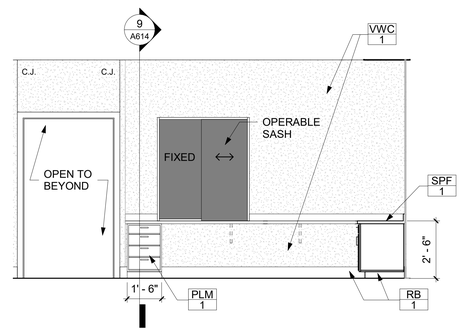

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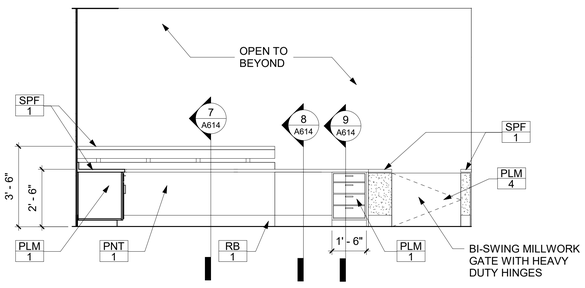

9 125 RECEPTION ELEVATION

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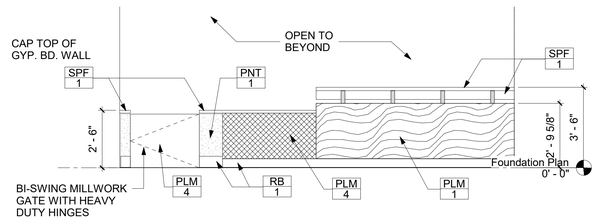

8 101 LOBBY ELEVATION

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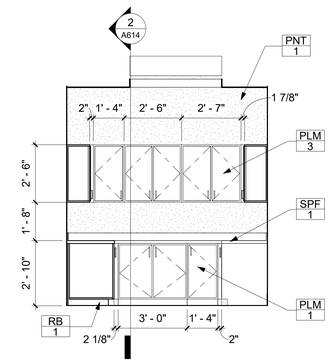

7 124 ADMIN/ WORK ELEVATION

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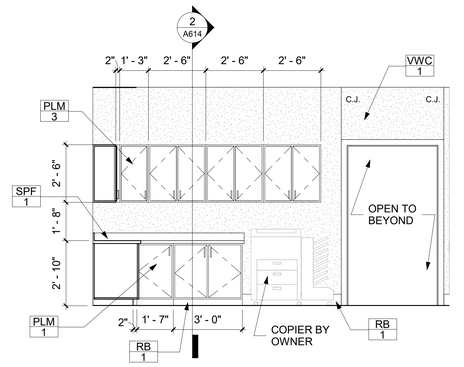

6 124 ADMIN/ WORK ELEVATION

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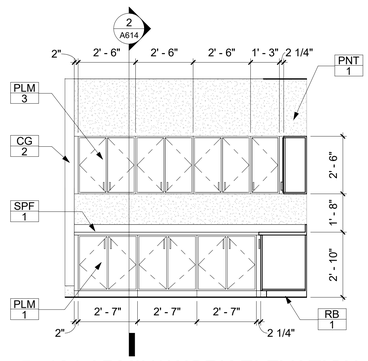

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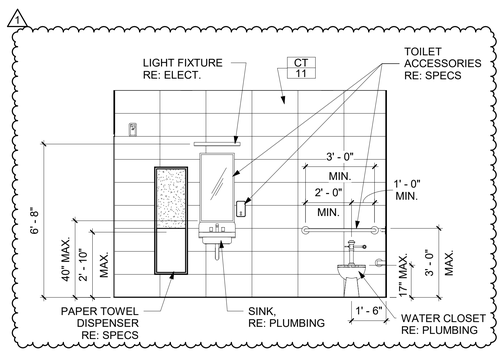

4 123 UNISEX SHOWER ELEVATION

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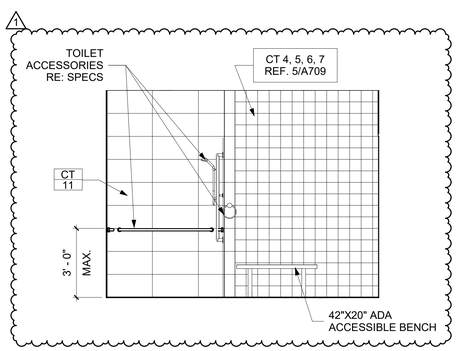

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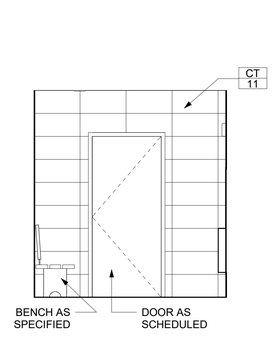

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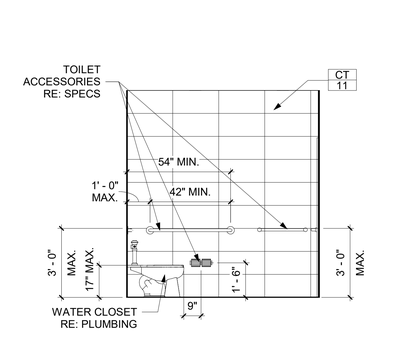

1 123 UNISEX SHOWER ELEVATION

A606 SCALE: 3/8" = 1'-0"

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DAVID G. DUMAN
14305
STATE OF TEXAS

David Duman
2021.01.11 15:25:26-06'00'

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS

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SHEET TITLE:
INTERIOR ELEVATIONS

A606

SHEET - OF -

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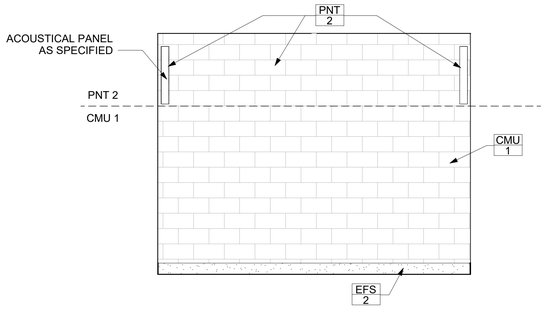
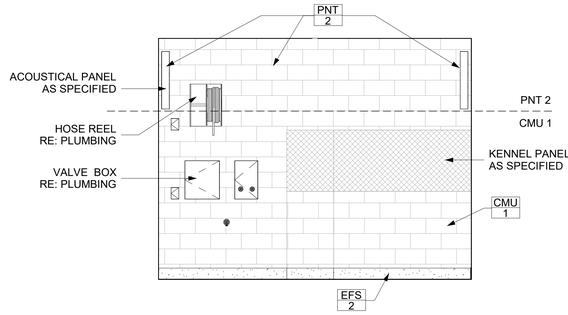


8 136 DOG ISO. ELEVATION

A608 SCALE: 3/8" = 1'-0"



7 136 DOG ISO. ELEVATION

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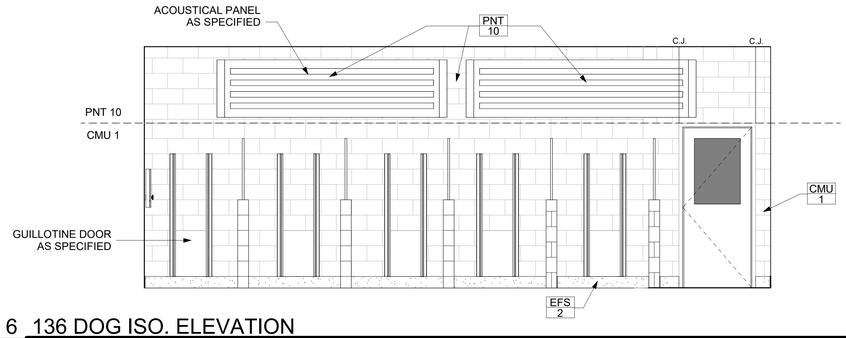

6 136 DOG ISO. ELEVATION

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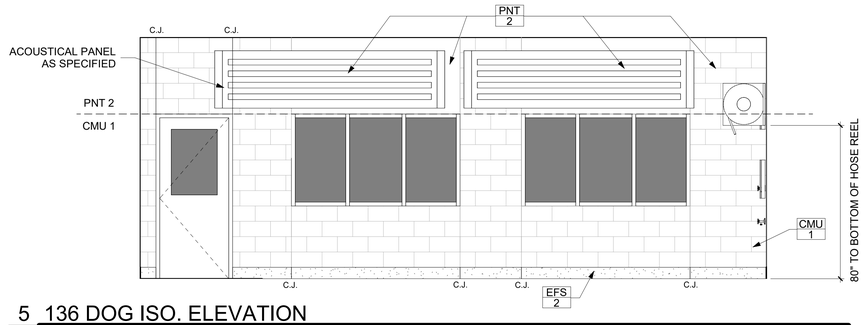
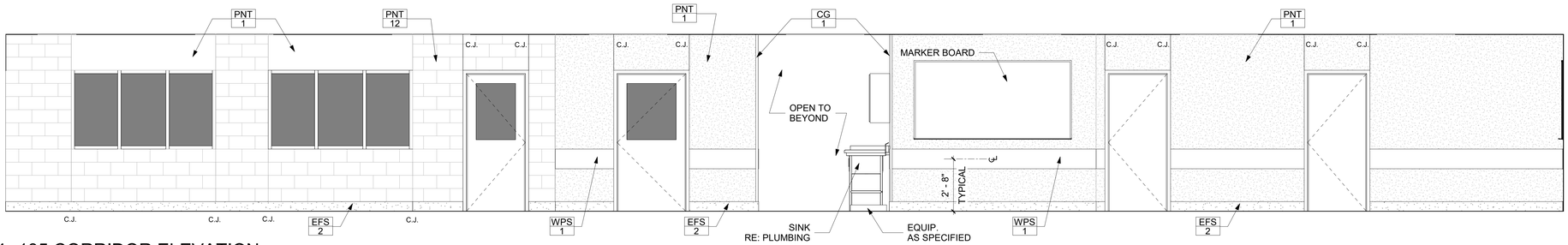


5 136 DOG ISO. ELEVATION

A608 SCALE: 3/8" = 1'-0"



4 135 CORRIDOR ELEVATION

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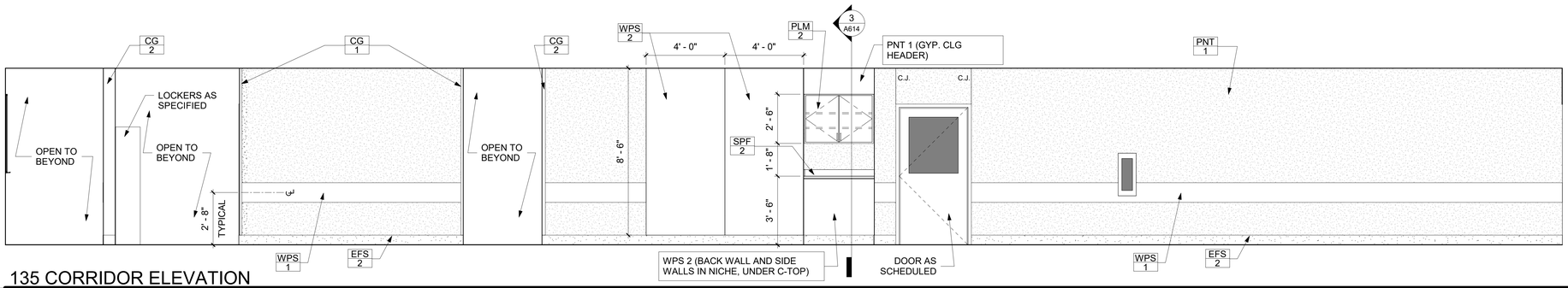

3 135 CORRIDOR ELEVATION

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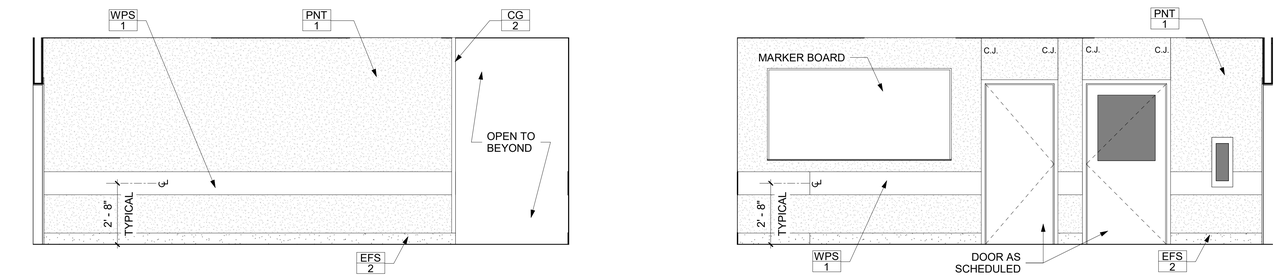

2 135 CORRIDOR ELEVATION

A608 SCALE: 3/8" = 1'-0"

1 135 CORRIDOR ELEVATION

A608 SCALE: 3/8" = 1'-0"

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REGISTERED ARCHITECT DAVID G. DUMAN 14305 STATE OF TEXAS

David Duman 2021.01.11 15:25:26-06'00'

THE STATE OF TEXAS KAUFMAN COUNTY

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS

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INTERIOR ELEVATIONS

A608

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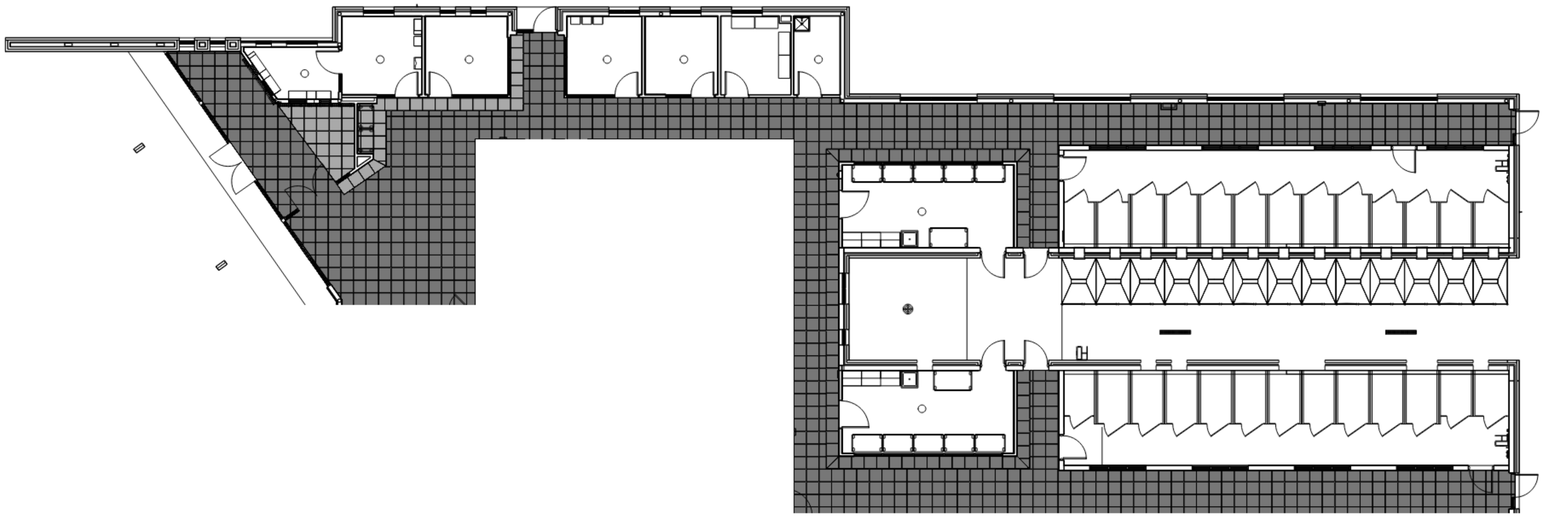
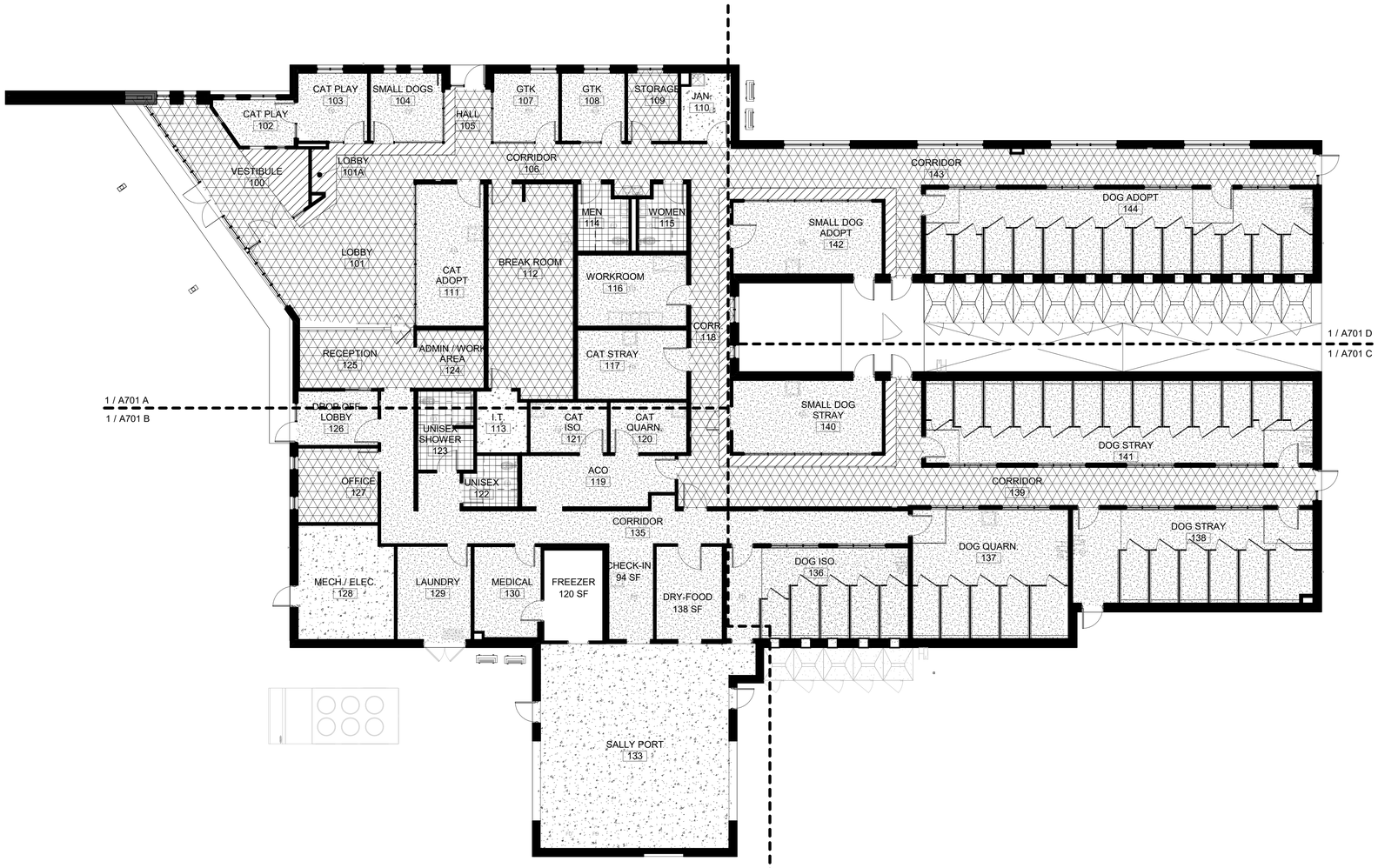
1/13/2021 9:33:36 PM



LUXURY VINYL TILE FLOOR PATTERN REFERENCE PLAN



1 FLOOR FINISH PLAN

A701 SCALE: 1/8" = 1'-0"

TRUE NORTH PLAN NORTH

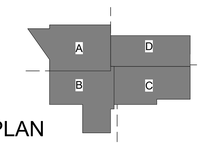
GENERAL NOTES -FINISH PLAN

1. REFERENCE INTERIOR FINISH LEGEND FOR INTERIOR FINISH SPECIFICATION INFORMATION. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FUTHER DETAIL.
2. FOLLOW MANUFACTURERS RECOMMENDED METHOD OF INSTALLATION TO INSTALL INTERIOR FINISH MATERIALS.

FLOOR FINISH LEGEND

- CONCRETE SEALED
- EPOXY FLOOR SYSTEM
- LUXURY VINYL TILE
- LUXURY VINYL TILE ACCENT
- CERAMIC TILE

KEY PLAN



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SHEET TITLE: OVERALL ROOM FINISH PLAN

A701

SHEET - OF -

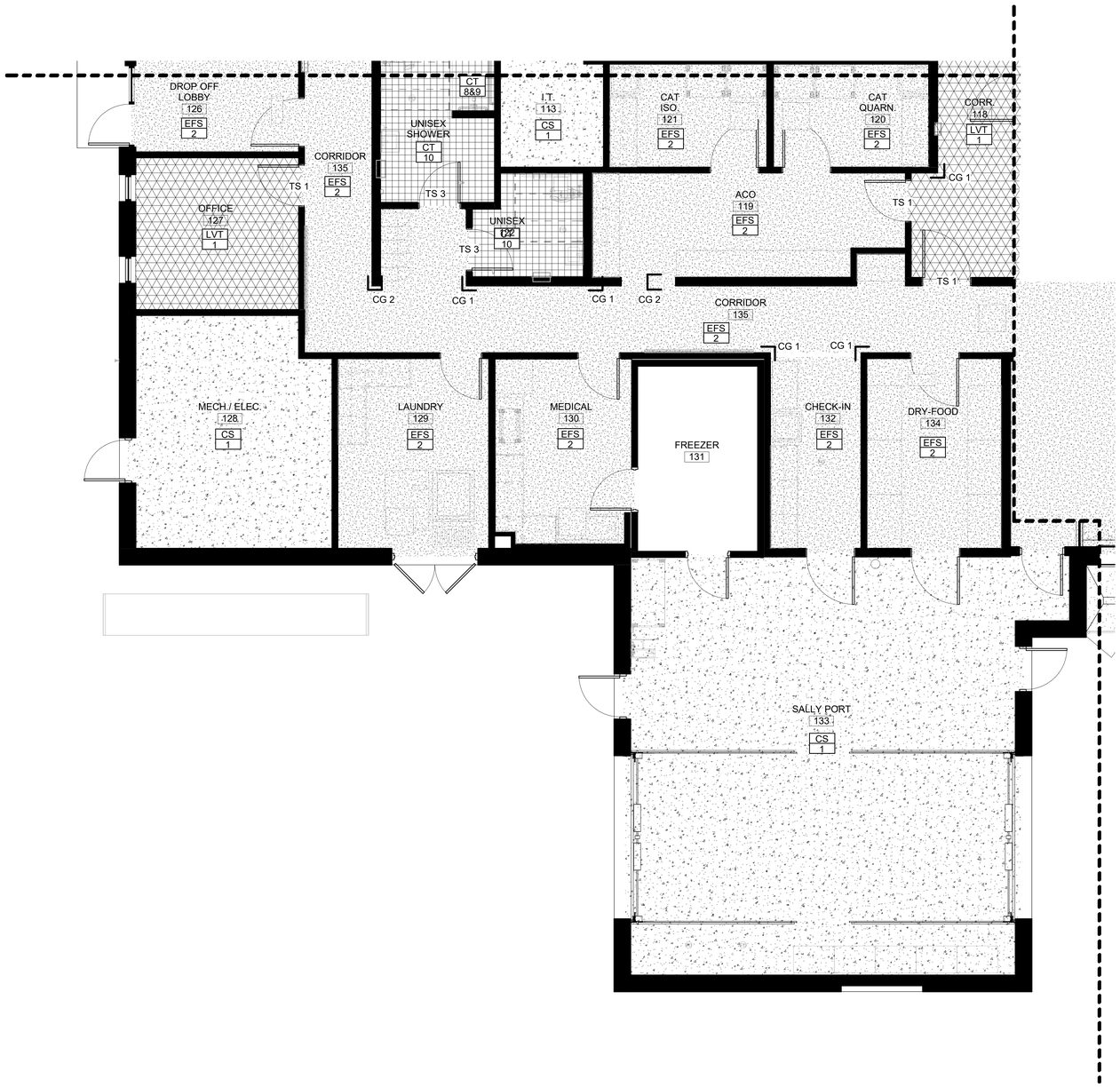
1/13/2021 9:33:48 PM

GENERAL NOTES -FINISH PLAN

1. REFERENCE INTERIOR FINISH LEGEND FOR INTERIOR FINISH SPECIFICATION INFORMATION. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FUTHER DETAIL.
2. FOLLOW MANUFACTURERS RECOMMENDED METHOD OF INSTALLATION TO INSTALL INTERIOR FINISH MATERIALS.

FLOOR FINISH LEGEND

- CONCRETE SEALED
- EPOXY FLOOR SYSTEM
- LUXURY VINYL TILE
- LUXURY VINYL TILE ACCENT
- CERAMIC TILE

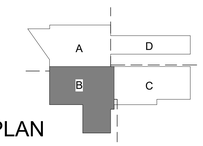


1 ENLARGED ROOM FINISH PLAN

A701 B SCALE: 1/4" = 1'-0"

TRUE NORTH PLAN NORTH

KEY PLAN



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A701 B

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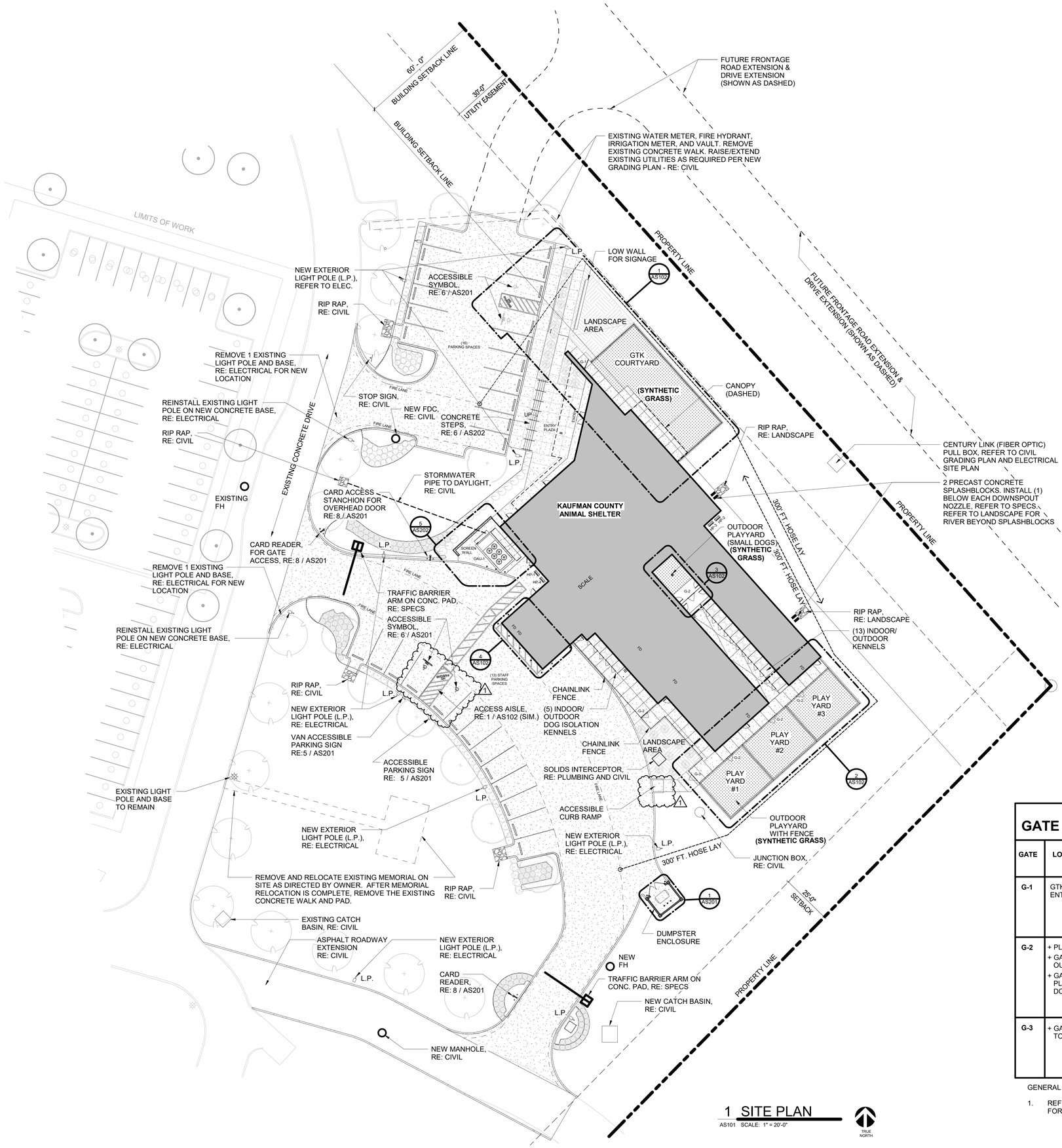

1 SITE PLAN
AS101 SCALE: 1" = 20'-0"

TRUE NORTH

GENERAL NOTES - SITE PLAN

A. WARP ALL EXTERIOR PAVEMENT AT DOORWAYS TO FINISHED FLOOR WITH SLOPE NOT EXCEEDING 1.5% FOR 5 FEET IN EACH DIRECTION AND 1'-6" MINIMUM FROM DOOR LATCH. ALL WALKS SHALL BE SLOPED 5% MAXIMUM IN THE DIRECTIONS OF TRAVEL AND 2% ON CROSS SLOPES. NO STEP GREATER THAN 1/4" ALONG THE ACCESSIBLE ROUTE.

B. PROVIDE A RECESSED MOUNTED KNOX BOX WITH AN ALARM TIMER SWITCH. TAMPER SWITCH MUST BE WIRED INTO FIRE ALARM PANEL OR BURGLAR ALARM PANEL. COORDINATE WITH FIRE DEPARTMENT.

C. GC TO COORDINATE ALL CONTROL JOINTS/PAVING AT DOOR STOOPS.

D. REFER TO CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED WORK. COORDINATE ALL PAVING, CURBS, GRADES, DIMENSIONS, ETC. WITH CIVIL DRAWINGS.

E. ACCESSIBLE PARKING SPACES SHALL BE 9'-0" WIDE MINIMUM. ACCESS AISLES SHALL BE 8'-0" WIDE MINIMUM. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1.5% IN ALL DIRECTIONS.

F. EACH ACCESSIBLE PARKING SPACE SHALL BE DESIGNATED AS RESERVED WITH A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. SIGN SHALL BE LOCATED 60" MINIMUM ABOVE THE PAVING SURFACE AND IN COMPLIANCE WITH TAS REQUIREMENTS.

G. ALL DRIVEWAY AND SIDEWALK INTERSECTIONS SHALL HAVE BARRIER FREE RAMPS IN ACCORDANCE WITH CURRENT CITY STANDARDS, ADA AND TAS REQUIREMENTS.

H. WHERE NEW CONCRETE COMES INTO CONTACT WITH A CONCRETE WALL, FOUNDATION OR OTHER STRUCTURE, PROVIDE 1/2" EXPANSION JOINT MATERIAL WITH BACKER ROD AND SEALANT.

I. SLOPE FINAL GRADE TO DRAIN AWAY FROM BUILDING.

J. PAINTED STRIPES TO BE 4" WIDE, TYPICAL. COLOR TO BE DETERMINED BY OWNER / ARCHITECT.

K. PROVIDE CONCRETE WHEELSTOPS AT ALL PARKING SPACES.

L. ALL GATES / FENCE TO HAVE A MAXIMUM 2" OPENING THROUGHOUT PERIMETER BARRIER DESIGN: BETWEEN PANELS, ALONG PANEL SIDES / BOTTOM, AT ALL HINGE AND LATCH LOCATIONS, AT SIDE / BOTTOM OF GATES.

M. AT THE GTK COURTYARD AND PLAY YARDS, IF A CERTAIN CONDITION EXISTS THAT PREVENTS SHEET FLOW OVER THE TOP OF THE MOW STRIP THEN THE GENERAL CONTRACTOR SHALL INSTALL 2 INCH PVC PIPE SLEEVES TO ACCOMMODATE DRAINAGE.

O. THIS SITE PLAN IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR AND DOES NOT INDICATE ALL MISCELLANEOUS SITE ELEMENTS WHICH MUST BE COORDINATED, REMOVED, OR DEMOLISHED THAT MAY INTERFERE WITH CONSTRUCTION. REMOVE THOSE MISCELLANEOUS SITE ELEMENTS AS REQUIRED TO COMPLETE NEW WORK WHETHER OR NOT SPECIFICALLY INDICATED ON THE DRAWINGS.

GATE SCHEDULE

GATE	LOCATION	TYPE	DESCRIPTION
G-1	GTK COURTYARD / ENTRY PLAZA	4'-0" W x 8'-0" H PEDESTRIAN SWINGING ORNAMENTAL IRON	MANUAL LOCK, MANUAL OPERATION. GATE TO MATCH ADJACENT ORNAMENTAL IRON FENCE WITH PUPPY ECHELON AND COYOTE ROLLER.
G-2	+ PLAY YARDS #1, #2 & #3 + GATE @ DOG ISO OUTDOOR KENNELS + GATE @ OUTDOOR PLAY PLAY YARD FOR SMALL DOGS	4'-0" W x 8'-0" H PEDESTRIAN SWINGING CHAINLINK GATE 4'-0" W X 6'-0"H AT PLAY YARD FOR SMALL DOGS	MANUAL OPERATION, MANUAL LOCK BY OWNER. GATE TO MATCH ADJACENT CHAINLINK FENCE. GATE TO HAVE COYOTE ROLLER.
G-3	+ GATE FROM PLAY YARDS TO STAFF PARKING	4'-0" W x 8'-0" H PEDESTRIAN SWINGING CHAINLINK GATE	MANUAL OPERATION, DOOR HARDWARE WITH SHROUD. GATE TO MATCH ADJACENT CHAINLINK FENCE. GATE TO HAVE COYOTE ROLLER.

GENERAL NOTES:

1. REFER TO SITE PLAN, ENLARGED REFERENCE PLANS, SITE DETAILS, AND GATE SCHEDULE FOR FENCING AND GATES TO RECEIVE COYOTE ROLLERS.

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ARCHITECTURE · INTERIOR DESIGN
825 W Vickery Blvd, Suite 100
Fort Worth, TX 76104
(817) 738-8095
www.qarch.com

REGISTERED ARCHITECT DAVID G. DUMAN 14305 STATE OF TEXAS

David Duman 2021.01.11 15:25:26-06'00'

THE STATE OF TEXAS KAUFMAN COUNTY

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS

PERMIT / CONSTRUCTION SET

REVISIONS:

NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	01-14-21

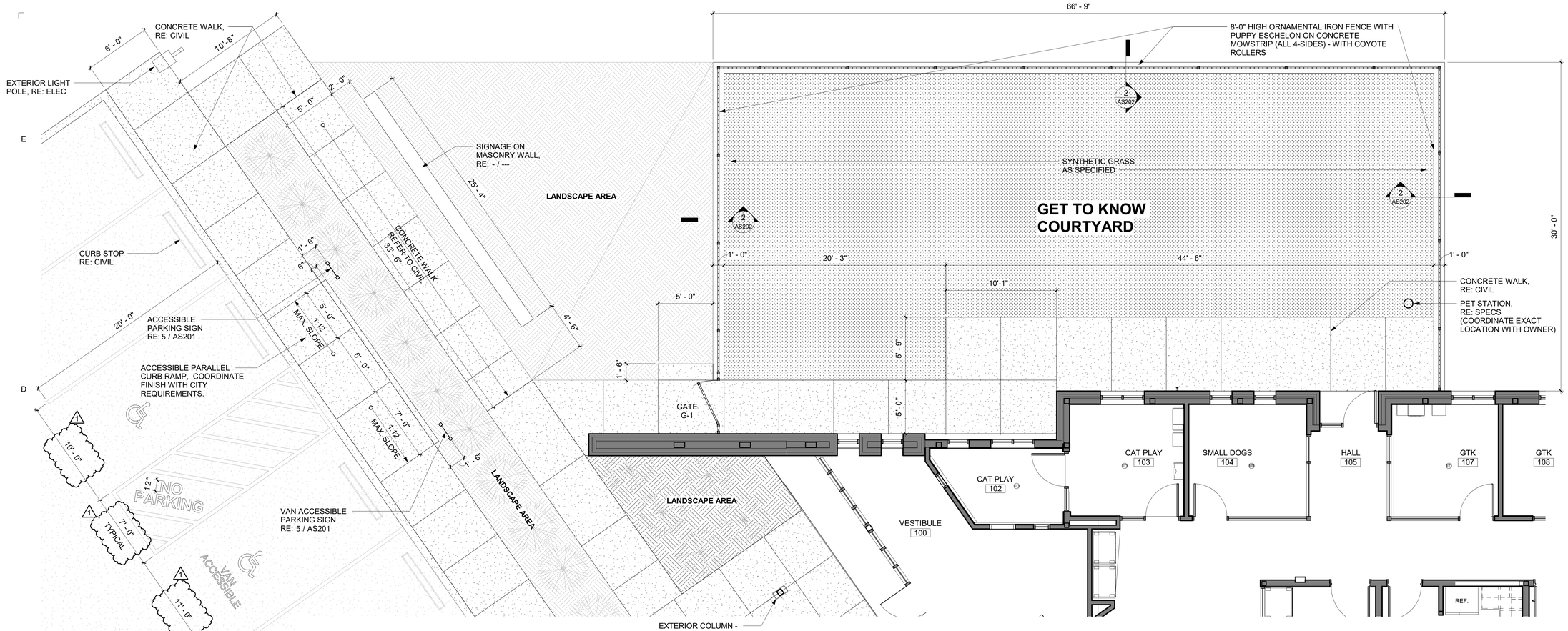
PROJECT NO.: 19209
FILE: C:\Users\cralvina\Documents\19209_KAS_Central_cralvina.rvt
DATE: DECEMBER 11, 2020
DRAWN BY: Author
SCALE: AS NOTED

SHEET TITLE: SITE PLAN

AS101

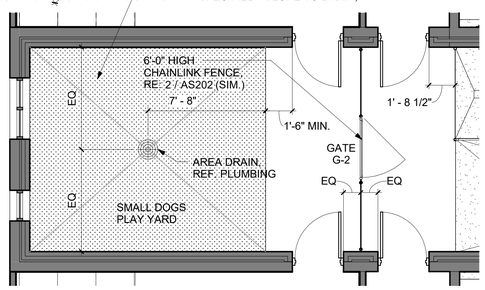
SHEET - OF -

1/13/2021 9:34:11 PM



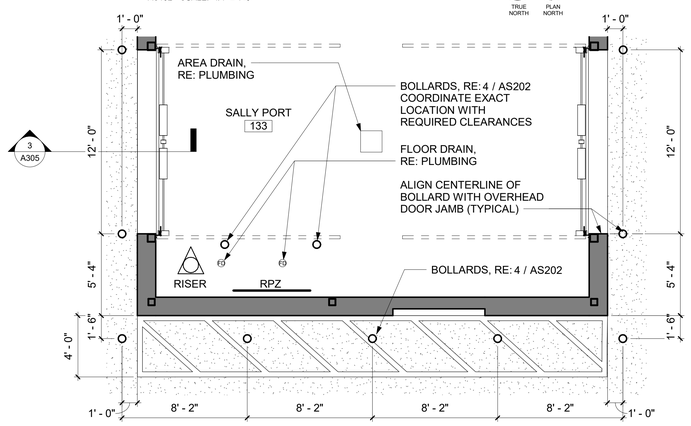
1 ENLARGED PLAN - GTK COURTYARD

AS102 SCALE: 1/4" = 1'-0"



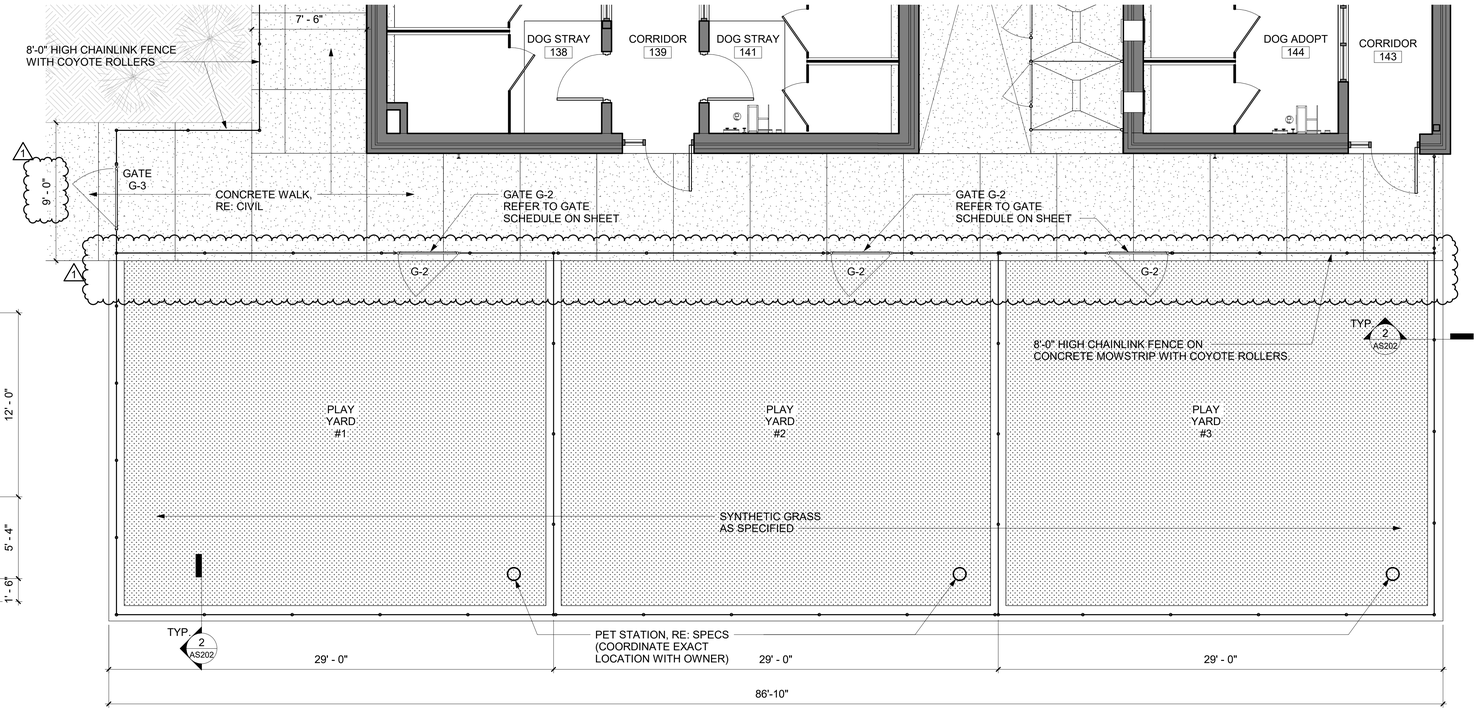
3 SMALL DOGS PLAY YARD

AS102 SCALE: 1/4" = 1'-0"



4 SALLYPORT BOLLARDS & STRIPING

AS102 SCALE: 1/4" = 1'-0"



2 ENLARGED PLAN - PLAY YARDS

AS102 SCALE: 1/4" = 1'-0"

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825 W Vickery Blvd, Suite 100
Fort Worth, TX 76104
(817) 738-8095
www.qarch.com

REGISTERED ARCHITECT DAVID G. DUMAN 14305 STATE OF TEXAS

David Duman 2021.01.11 15:25:26-06'00'

THE STATE OF TEXAS KAUFMAN COUNTY

KAUFMAN COUNTY PET ADOPTION CENTER
1900 E. HIGHWAY 175
KAUFMAN, TEXAS

PERMIT / CONSTRUCTION SET

REVISIONS:

NO.	DESCRIPTION	DATE
1	ADDENDUM NO.1	01-14-21

PROJECT NO.: 19209
FILE: C:\Users\calvina\Documents\19209_KAS_Central_calvina.rvt
DATE: DECEMBER 11, 2020
DRAWN BY: Author
SCALE: AS NOTED

SHEET TITLE: ENLARGED PARTIAL SITE PLANS

AS102

SHEET - OF -

1/13/2021 9:34:21 PM

Kimley»Horn

Addendum 1 – Permit Documents

DATE:	January 13th, 2020
PROJECT NAME:	Kaufman Animal Shelter 1904 US-175 City of Kaufman, Kaufman County, TX 75142
OWNER:	Kaufman County
ENGINEER:	Kimley-Horn and Associates, Inc.

This Revision Letter gives a description of modifications made from the original permit submittal plans dated December 14th, 2020.

CONSTRUCTION DOCUMENTS

1. C-000 COVER SHEET
    a. No Changes

2. C-100 GENERAL NOTES
    a. No Changes

3. C-200 DEMOLITION PLAN
    a. Existing power and fiber lines to remain added to the plans

4. C-201 OVERALL SITE PLAN
    a. No Changes

5. C-202 SITE PLAN
    a. Sidewalk area reduced on the west side of the Get to Know Courtyard

6. C-203 GRADING PLAN
    a. Adjusted limits of grading on the west side of the property to avoid impacts to the existing power and fiber lines
    b. Minor grading adjustments in the Get to Know Courtyard.
    c. Minor grading changes in kennel area.
    d. Minor grading changes at roof drain outfall at southwest corner of the building.
    e. Adjust ramp grading near dumpster.

7. C-204 EXISTING DRAINAGE AREA MAP
    a. No changes

8. C-205 DRAINAGE PLAN
    a. Rock Riprap area reductions at flume and roof drain outfalls.
    b. Adjusted 15” HDPE pipe slopes and crossings
    c. 6” pipe for roof drain pipe at southwest corner of the building to daylight has been shortened

9. C-206 UTILITY PLAN
    a. Sewer Main Pipe size change from 6” to 8”
    b. Sewer pipe slope adjustments

c. Added utility notes per City of Kaufman requirements

10. C-207 DRAINAGE AND UTILITY PROFILE
    a. Sewer main pipe size change from 6” to 8”
    b. Storm and sewer pipe slope adjustments

11. C-208 EROSION CONTROL PLAN
    a. No Changes

12. C-300 EROSION CONTROL DETAILS
    a. No changes

13. C-301 CONSTRUCTION DETAILS
    a. Signage & striping detail removed (reference architectural plans)
    b. ADA detail updated to match site plan

14. C-302 CONSTRUCTION DETAILS
    a. Concrete apron detail added
    b. Strom manhole detail added

15. C-303 CONSTRUCTION DETAILS
    a. No changes

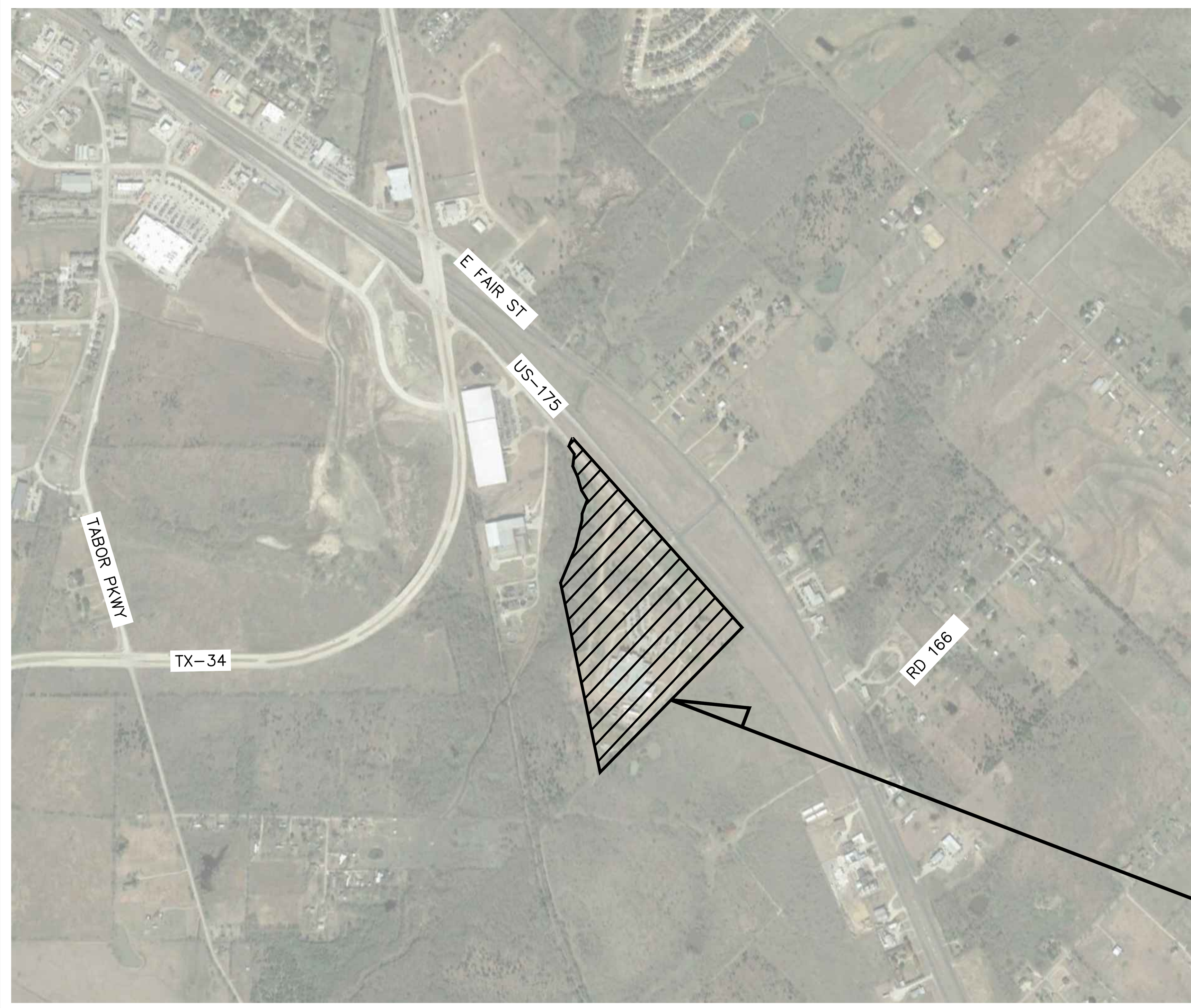
CIVIL PERMIT DOCUMENTS

FOR

KAUFMAN ANIMAL SHELTER

1904 US-175
CITY OF KAUFMAN
KAUFMAN COUNTY, TEXAS 75142

PLAN SUBMITTAL LOG	
PLANNING AND ZONING SUBMITTAL -NOT FOR CONSTRUCTION-	10/02/2020
PLANNING AND ZONING SUBMITTAL -NOT FOR CONSTRUCTION-	11/20/2020
ISSUE FOR PERMIT - NOT FOR CONSTRUCTION	12/11/2020
ISSUE FOR PERMIT - NOT FOR CONSTRUCTION	12/11/2020
PERMIT RESUBMITTAL - ADDENDUM 1	1/14/2021



PROJECT LOCATION

VICINITY MAP

NORTH

Sheet List Table	
Sheet Number	Sheet Title
C-000	COVER SHEET
C-100	GENERAL NOTES
C-200	DEMOLITION PLAN
C-201	OVERALL SITE PLAN
C-202	SITE PLAN
C-203	GRADING PLAN
C-204	EXISTING DESIGN DRAINAGE AREA MAP
C-205	DRAINAGE PLAN
C-206	UTILITY PLAN
C-207	DRAINAGE AND UTILITY PROFILE
C-208	EROSION CONTROL PLAN
C-300	EROSION CONTROL DETAILS
C-301	CONSTRUCTION DETAILS
C-302	CONSTRUCTION DETAILS
C-303	CONSTRUCTION DETAILS

PROJECT TEAM:

OWNER/DEVELOPER
KAUFMAN COUNTY
100 W MULBERRY
KAUFMAN, TEXAS 75142
PH: (469) 376-4548

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
TEXAS REGISTRATION NO. F-928
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER
SUITE 700
DALLAS, TEXAS 75251
PH: (972) 770-1300
JEFFREY DOLIAN, P.E.

ARCHITECT
QUORUM ARCHITECTS
825 W VICKERY BLVD, SUITE 100
FORT WORTH, TEXAS 76104
PH: (817) 546-6315
DAVID DUMAN, AIA

JANUARY 2021

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

811 Know what's **below.** **Call** before you dig.

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

Kimley-Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

STATE OF TEXAS
JEFFREY W. DOLIAN
114926
LICENSED
PROFESSIONAL ENGINEER
1/14/2021

KHA PROJECT 143263000
DATE Jan-2021
SCALE AS SHOWN
DESIGNED BY JMP
DRAWN BY JMP
CHECKED BY JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

COVER SHEET

SHEET NUMBER
C-000

KH GENERAL NOTES

OVERALL:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, CITY (OR TOWN) STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.
2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.
3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER IMMEDIATELY.
7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW.
8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.
9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL.
10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.
14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.
15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.
16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS.
17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.
18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT.
19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
20. BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM.
21. CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES.
22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.
23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
24. ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE.
25. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES.
26. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
27. CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
28. ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC.…) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR.
29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. REFERENCE THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.
30. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS.
31. THE PROPOSED BUILDING FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED TO KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC.) AND TO CONFIRM ITS FINAL POSITION ON THE SITE BASED ON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAT. ANY DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY.
32. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.
33. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.
34. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
35. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
36. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
37. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR.
38. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC.… TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.
40. ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT.
41. THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING CONSTRUCTION.
42. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
43. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
44. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
45. SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
46. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.
47. SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS.
48. CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS.
49. LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.
50. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
51. TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.
52. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.
53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS.
54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION, AND THEN THE IMPLEMENTATION OF THE PLAN.
55. CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS.
56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

EROSION CONTROL:

1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000".
3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE.
4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT.
5. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE.
6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH BMP EMPLOYED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE.
7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER APPROVED DETAILS.
8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED.
9. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING.
10. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENTATION FROM WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
11. OFF-SITE SOIL BORROW, SPOIL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN.
12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.
13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPS, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE, TO VERIFY THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY.
14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS.
15. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY.
16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE OFF-SITE ROADWAYS.
17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP BMP.
18. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES, PER TCEQ AND CITY STANDARDS. IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL ARRANGE FOR AN APPROPRIATE DESIGN TO BE PROVIDED.
19. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR.
20. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.
21. TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE.
22. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES.
23. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A UNIFORM PERENNIAL VEGETATIVE COVER.
24. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.

STORM WATER DISCHARGE AUTHORIZATION:

1. CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000.
3. THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MS4 (TYPICALLY THE CITY) RECEIVING DISCHARGE FROM THE SITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI).
5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.
6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.
7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURES, A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO THE OPERATOR OF ANY MS4 RECEIVING DISCHARGE FROM THE SITE.

DEMOLITION:

1. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.
2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES.
3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN:

a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER,
b. ASBESTOS BUILDING INSPECTION REPORT(S) PROVIDED BY THE OWNER,
c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER.
d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE.

5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO STARTING ANY WORK ON THE SITE.
6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED.
8. SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT, FOUNDATIONS OR WALLS, THAT ARE ALSO TO BE REMOVED.

GRADING:

1. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY.
3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB ELEVATION.
4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE.
5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY.
6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN.
7. CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE, THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE PAVEMENT SECTION.
8. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER.
9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.
10. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
11. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
13. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH THE RECEIVING LANDOWNER'S APPROVAL TO DO SO.
14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL.
15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
16. NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED.
17. TEMPORARY CULVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY RUN-OFF.
18. REFER TO DIMENSION CONTROL PLAN, AND PLAT FOR HORIZONTAL DIMENSIONS.
19. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
20. CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING.
21. ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
22. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FILL, CONDITIONING, AND PREPARATION IN THE BUILDING PAD.
24. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
25. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION.
26. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL COST TO THE OWNER.
27. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE PROPOSED GRADE, INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL REFER TO THE GENERAL NOTES "OVERALL" SECTION THESE PLANS FOR ADDITIONAL INFORMATION.
28. EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER.
29. CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES, AND PROPOSED SITE GRADING, AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH THE TREE PRESERVATION PLAN BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING THE WORK.
30. TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY STANDARD TREE PROTECTION DETAILS AND THE APPROVED TREE PRESERVATION PLANS BY THE LANDSCAPE ARCHITECT.
31. CONTRACTOR SHALL REFER TO THE LANDSCAPING AND TREE PRESERVATIONS PLANS FOR ALL INFORMATION AND DETAILS REGARDING EXISTING TREES TO BE REMOVED AND PRESERVED.
32. NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN ISSUED BY THE CITY, OR CITY HAS OTHERWISE CONFIRMED IN WRITING THAT ONE IS NOT NEEDED FOR THE TREE(S).
33. NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE. EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE AND GRADING IMPACT TO THEM HELD TO A MINIMUM.
34. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED.
35. CONTRACTOR FIELD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE CIVIL ENGINEER IS OBTAINED.

PAVING:

1. ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION/DETAIL SHALL BE FOLLOWED.
2. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING ALL ADDENDA.
3. ALL FIRELANE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARDS AND DETAILS. IF THESE ARE DIFFERENT THAN THOSE IN THE GEOTECHNICAL REPORT, THEN THE MORE RESTRICTIVE SHALL BE FOLLOWED.
4. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR PAVING AND PAVING SUBGRADE TESTING.
6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE PAVING AND PAVING SUBGRADE, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAIL AND SPECIFICATIONS.
9. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA AND TAS STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.
10. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TAS STANDARDS, LATEST EDITION.
11. ANY COMPONENTS OF THE PROJECT SUBJECT TO RESIDENTIAL USE SHALL ALSO CONFORM TO THE FAIR HOUSING ACT, AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
12. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION.
13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND PAVEMENT MARKINGS SHALL ADHERE TO CITY AND OWNER STANDARDS.
14. REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT.
15. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT.
16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A-615, GRADE 60, AND SHALL BE SUPPORTED BY BAR CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE CITY AND GEOTECHNICAL STANDARDS.
17. ALL JOINTS SHALL EXTEND THROUGH THE CURB.
18. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
19. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO BEGINNING ANY OF THE PAVING WORK.
20. ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT.
21. FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY STANDARDS.
22. UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED.
23. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED.
24. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
25. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE COMPLIANCE ISSUES.

STORM DRAINAGE:

1. ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
2. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
3. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING STORM SEWER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED.
4. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.
5. FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION.
6. ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
7. ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
8. ALL PVC TO RCP CONNECTIONS AND ALL STORM PIPE CONNECTIONS ENTERING STRUCTURES OR OTHER STORM PIPES SHALL HAVE A CONCRETE COLLAR AND BE GROUTED TO ASSURE THE CONNECTION IS WATERTIGHT.
9. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES 18-INCHES AND GREATER SHALL BE CLASS III RCP OR OTHER APPROVED MATERIAL.
10. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED.
11. IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER, CONTRACTOR SHALL SUBMIT TECHNICAL DATA TO THE OWNER, ENGINEER AND CITY ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. ANY PROPOSED HDPE AND PVC SHALL BE WATERTIGHT.
12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM SEWER LINES.
13. EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.
14. ALL WYE CONNECTIONS AND PIPE BENDS ARE TO BE PREFABRICATED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
15. USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
17. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

POND NOTES:

1. ANY PONDS THAT ARE INTENDED TO HOLD WATER INDEFINITELY SHALL BE CONSTRUCTED WATERTIGHT.
2. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR POND LINER SPECIFICATIONS.
3. A GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE ALL POND LINER MATERIAL, PLACEMENT PROCEDURES, AND PROVIDE TESTING TO ENSURE THE POND LINER MATERIAL PLACED IS WATERTIGHT.
4. STORM SEWER PIPES AND HEADWALLS THAT CONNECT TO A POND INTENDED TO HOLD WATER INDEFINITELY SHALL BE INSTALLED WITH WATERTIGHT JOINTS TO AT LEAST 1-FOOT ABOVE THE NORMAL POOL WATER SURFACE ELEVATION.
5. ANY GRAVEL OR OTHER PERVIOUS EMBEDMENT AROUND PIPES OR OUTFALL STRUCTURES NEAR THE POND SHALL BE ELIMINATED FOR AT LEAST 20-FEET FROM THE POND SO NO ROUTE FOR WATER TO LEAK THROUGH THE EMBEDMENT MATERIAL IS PROVIDED. BACKFILL IN THESE AREAS SHALL BE OF IMPERVIOUS MATERIAL.
6. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE WATER LEVEL FOLLOWING COMPLETION AND FILLING OF THE POND SHALL BE MONITORED BY THE CONTRACTOR FOR AT LEAST 60 DAYS TO OBSERVE WATER INFLOW, OUTFLOW, AND CALCULATE EVAPORATION TO VERIFY THAT THE POND IS WATERTIGHT.
7. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE POND WATER LEVEL SHALL ALSO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION SO THAT IT REMAINS FULL TO ITS DESIGN WATER LEVEL, AND IS NOT LOWERED, AS THIS MAY DRY-OUT THE POND LINER AND RISK ITS WATERTIGHT PROPERTIES.

WATER AND WASTEWATER:

1. ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AND WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY WATER OR WASTEWATER CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED.
3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING.
4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE.
5. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE WATER AND WASTEWATER IMPROVEMENTS.
6. ALL PUBLIC WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
7. ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
8. FIRE SPRINKLER LINES SHALL BE DESIGNED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR, AND COMPLY TO THE APPLICABLE CODES AND INSPECTIONS REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRINKLER DESIGN. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES.
9. EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.
10. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, TCEQ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS.
11. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER AND WASTEWATER LINES.
12. ALL WATER AND WASTEWATER SERVICES SHALL TERMINATE 5-FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE.
13. CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT.
14. CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO SURROUNDING PROPERTIES.
15. CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION (IF NECESSARY, BY USE OF TEMPORARY METHODS APPROVED BY THE CITY AND OWNER). THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
16. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
17. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED PAVEMENT.
18. THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
19. ALL FIRE HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR THRUST BLOCKED TO CITY STANDARDS.
20. CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE JOINTS ARE GREATER THAN 9-FEET FROM THE CROSSING.
21. ALL CROSSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FEET FROM WATER, WASTEWATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 217.53.
22. ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH TCEQ CHAPTER 290.44.
23. ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND TCEQ STANDARDS AND SPECIFICATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING:

a. ALL WATERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE BEING PLACED INTO SERVICE. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS.
b. WASTEWATER LINES AND MANHOLES SHALL BE PRESSURE TESTED. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. AFTER COMPLETION OF THESE TESTS, A TELEVISION INSPECTION SHALL BE PERFORMED AND PROVIDED TO THE CITY AND OWNER ON A DVD.

24. CONTRACTOR SHALL INSTALL DETECTABLE WIRING OR MARKING TAPE A MINIMUM OF 12" ABOVE WATER AND WASTEWATER LINES. MARKER DECALS SHALL BE LABELED "CAUTION - WATER LINE", OR "CAUTION - SEWER LINE". DETECTABLE WIRING AND MARKING TAPE SHALL COMPLY WITH CITY STANDARDS, AND SHALL BE INCLUDED IN THE COST OF THE WATER AND WASTEWATER PIPE.
25. DUCTILE IRON PIPE SHALL BE PROTECTED FROM CORROSION BY A LOW-DENSITY POLYETHYLENE LINER WRAP THAT IS AT LEAST A SINGLE LAYER OF 8-MIL. ALL DUCTILE IRON JOINTS SHALL BE BONDED.
26. WATERLINES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER REQUIRED BY THE CITY.
27. CONTRACTOR SHALL PROVIDE CLEAN-OUTS FOR PRIVATE SANITARY SEWER LINES AT ALL CHANGES IN DIRECTION AND 100-FOOT INTERVALS, OR AS REQUIRED BY THE APPLICABLE PLUMBING CODE. CLEAN-OUTS REQUIRED IN PAVEMENT OR SIDEWALKS SHALL HAVE CAST IRON COVERS FLUSH WITH FINISHED GRADE.
28. CONTRACTOR SHALL PROVIDE BACKWATER VALVES FOR PLUMBING FIXTURES AS REQUIRED BY THE APPLICABLE PLUMBING CODE (E.G. FLOOR ELEVATION OF FIXTURE UNIT IS BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER). CONTRACTOR SHALL REVIEW BOTH MEP AND CIVIL PLANS TO CONFIRM WHERE THESE ARE REQUIRED.
29. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
30. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

ABBREVIATIONS AND DEFINITIONS:

A	AREA
ADA	AMERICANS WITH DISABILITIES ACT
AWWA	AMERICAN WATER WORKS ASSOCIATION
B-B	BACK TO BACK
BC	BEGIN CURVE
BC	BACK OF CURB
BCR	BEGIN CURB RETURN
BMP	BEST MANAGEMENT PRACTICE
BOC	BACK OF CURB
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
BW	BOTTOM OF WALL
CFS	CUBIC FEET PER SECOND
CITY	CITY, TOWN, OR OTHER APPLICABLE LOCAL GOVERNMENT JURISDICTION
C/L	CENTERLINE
CL	CENTERLINE
CONC	CONCRETE
CY	CUBIC YARD
DEMO	DEMOLITION
DG	DECOMPOSED GRANITE
DTL	DETAIL
EA	EACH
EC	END CURVE
ECR	END CURB RETURN
EG	EXISTING GROUND
EL	ELEVATION
ELEC	ELECTRICAL / ELECTRICITY
ELEV	ELEVATION
EPA	UNITES STATES ENVIRONMENTAL PROTECTION AGENCY
ESMT	EASEMENT
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX.	EXISTING
F-F	FACE TO FACE
FG	FINISHED GROUND
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FT	FEET
HGL	HYDRAULIC GRADE LINE
KH	KIMLEY-HORN AND ASSOCIATES, INC.
KHA	KIMLEY-HORN AND ASSOCIATES, INC.
LAT	LATERAL
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
ME	MATCH EXISTING ELEVATION
MH	MANHOLE
MIN	MINUTE / MINIMUM
NO	NUMBER
NOI	NOTICE OF INTENT, REF. TCEQ GENERAL PERMIT
NOT	NOTICE OF TERMINATION, REF. TCEQ GENERAL PERMIT
NTS	NOT TO SCALE
OC	ON CENTER
OFF	OFFSET
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE / POINT OF COMPOUND CURVATURE
PGL	PROPOSED GRADE LINE
PI	POINT OF INFLECTION
PROP	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INFLECTION
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RT	RIGHT
SF	SQUARE FEET
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
SY	SQUARE YARD
TAS	ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS
TC	TOP OF CURB
TCEQ	TEXAS COMMISSION OF ENVIRONMENTAL QUALITY
TEMP	TEMPORARY
TXDOT	TEXAS DEPARTMENT OF TRANSPORTATION
TXMUTCD	TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
TW	TOP OF WALL
TYP	TYPICAL
VC	VERTICAL CURVE
WTR	WATER
WW	WASTEWATER

THESE PLAN AND GENERAL NOTES REFER TO:

GEOTECHNICAL EXPLORATION
KAUFMAN COUNTY ANIMAL SHELTER
OFF U.S. 175 KAUFMAN ,TEXAS
ALPHA TESTING, INC.
REPORT NO: G202314
OCTOBER 7, 2020

INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.

BENCHMARK

1. SQUARE CUT IN THE END OF HEADWALL ON THE WEST SIDE OF U.S. HIGHWAY 175 FRONTAGE ROAD.
   ELEV: 406.24'
2. "X" CUT ON BACK OF CURB, 76 FT EAST OF EXIST. FIRE HYDRANT
   N:6894979.422
   E:2648746.505
   ELEV:425.80

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

811®
Know what's **below.**
Call before you dig.

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER,
SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

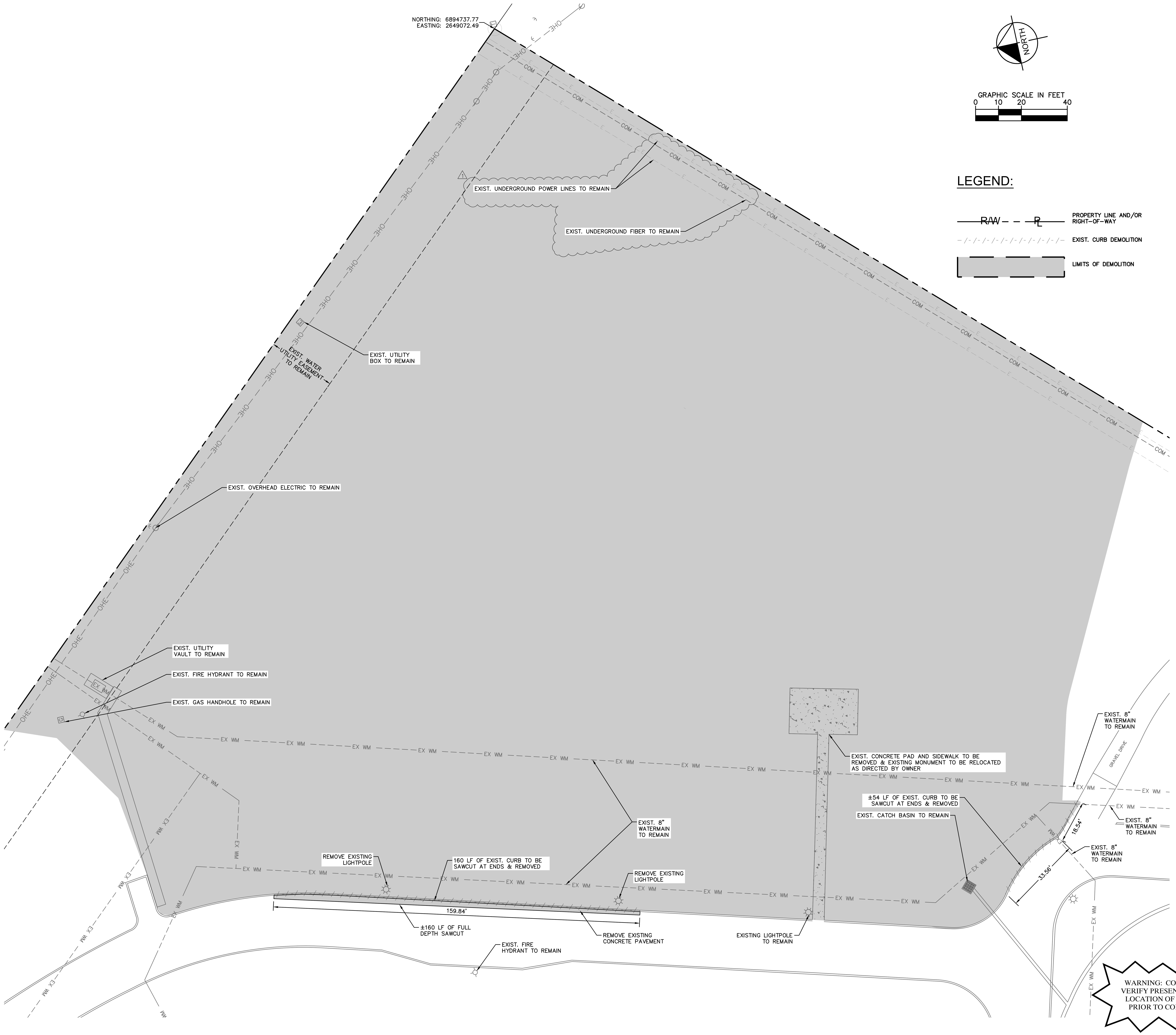
JEFFREY W. DOLIAN
114926
1/14/2021

KHA PROJECT	143263000
DATE	Jan-2021
SCALE	AS SHOWN
DESIGNED BY	JMP
DRAWN BY	JMP
CHECKED BY	JWD

KAUFMAN ANIMAL
CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN
TEXAS

GENERAL NOTES

SHEET NUMBER
C-100



WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

811 Know what's **below.** **Call** before you dig.

NOTES

1. INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS REQUIRED TO CONTROL SEDIMENT FROM LEAVING THE SITE PRIOR TO COMMENCING DEMOLITION WORK ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE PROPOSED PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE GEOTECHNICAL REPORT.
3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY THEMSELVES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR MARKING ONSITE LOCATIONS OF EXISTING UTILITIES.
6. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
8. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CITY AND OWNER.
9. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE EXISTING FACILITIES TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
10. CONTRACTOR SHALL LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS, BUT ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND THE CITY/COUNTY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO EXISTING BUILDINGS TO REMAIN AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
12. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
13. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
14. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN FOR THE LOCATION OF THE TREES THAT ARE ALLOWED TO REMAIN/TO BE REMOVED ONCE A TREE REMOVAL PERMIT IS OBTAINED BY THE CONTRACTOR.
15. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
16. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS AND INSPECTION REPORTS (SWPPP).
17. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
18. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING A TRAFFIC CONTROL PLAN AND THE INSTALLATION OF TRAFFIC CONTROL DEVICES.
19. ALL DEMOLITION WORK OR CONSTRUCTION VEHICLE TRAFFIC WITHIN 10 FEET OF THE CANOPY OF ANY TREE TO BE SAVED SHALL CLOSELY COORDINATED WITH TREE PRESERVATION ACTIVITIES.
20. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
21. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
22. ANY RECYCLED MATERIAL TO BE STOCKPILED ON THE SITE SHALL BE STORED IN AS SMALL AN AREA AS PRACTICAL AND THE LOCATION OF ANY STOCKPILE SHALL BE WELL CLEAR OF THE BUILDING PAD AREA AND THE LOCATION MUST BE PRE-APPROVED BY THE ENGINEER AND OWNER PRIOR TO STOCKPILING
23. CONTRACTOR TO PULL ALL TREE REMOVAL PERMITS FOR ANY REQUIRED TREE REMOVAL.
24. ALL IRRIGATION ON-SITE NOT TO BE USED SHOULD BE REMOVED. REFER TO IRRIGATION PLAN.
25. REMOVE AND/OR PLUG EXISTING UTILITIES SUCH AS STORM DRAINAGE, SANITARY SEWER, WATER, GAS, ELECTRIC, AND TELEPHONE AS SHOWN OR AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING EACH UTILITY COMPANY TO COORDINATE REMOVAL OF ALL UTILITIES AND FOR DETERMINING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES PRIOR TO COMMENCING WORK.
26. QUANTITIES SHOWN HERE ARE APPROXIMATE AND ARE PROVIDED FOR CONVENIENCE ONLY AND NOT FOR BID PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES NECESSARY TO DEMO FACILITIES SHOWN.

BENCHMARK

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   ELEV: 406.24'
2. "X" CUT ON BACK OF CURB, 76 FT EAST OF EXIST. FIRE HYDRANT
   N:6894979.422
   E:2648746.505
   ELEV:425.80

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

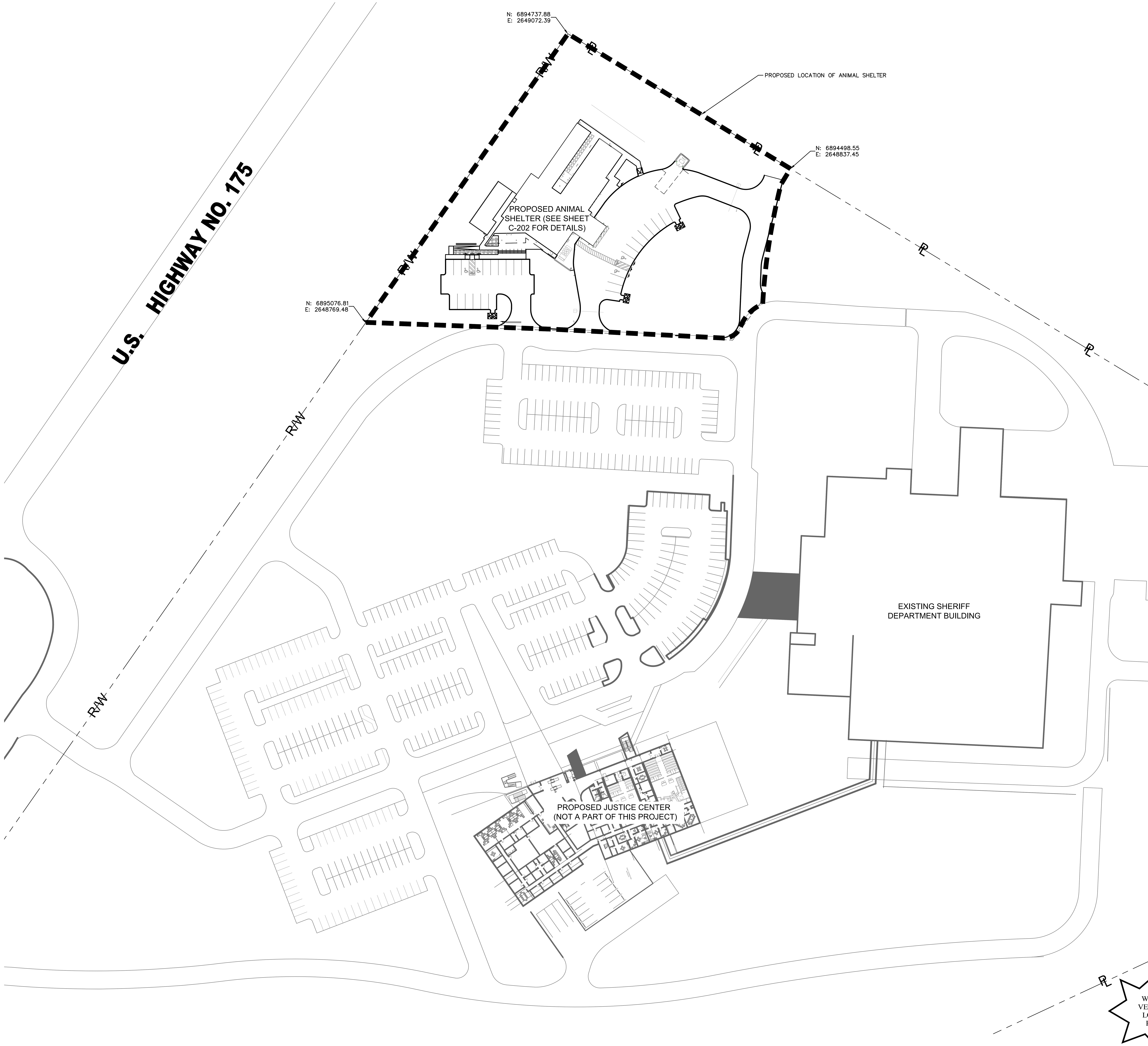
STATE OF TEXAS — JEFFREY W. DOLIAN — 114926 — LICENSED PROFESSIONAL ENGINEER
1/14/2021

KHA PROJECT	143263000
DATE	Jan-2021
SCALE	AS SHOWN
DESIGNED BY	JMP
DRAWN BY	JMP
CHECKED BY	JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

DEMOLITION PLAN

SHEET NUMBER
C-200



NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

LEGEND:

R/W - - PL	PROPERTY LINE AND/OR RIGHT-OF-WAY
▬ ▬ ▬ ▬	PROJECT BOUNDARIES

NOTES

1. REFERENCE KAUFMAN COUNTY JUSTICE CENTER PLANS FOR SITE DATA SUMMARY

BENCHMARK

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811 Know what's **below.** Call before you dig.

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

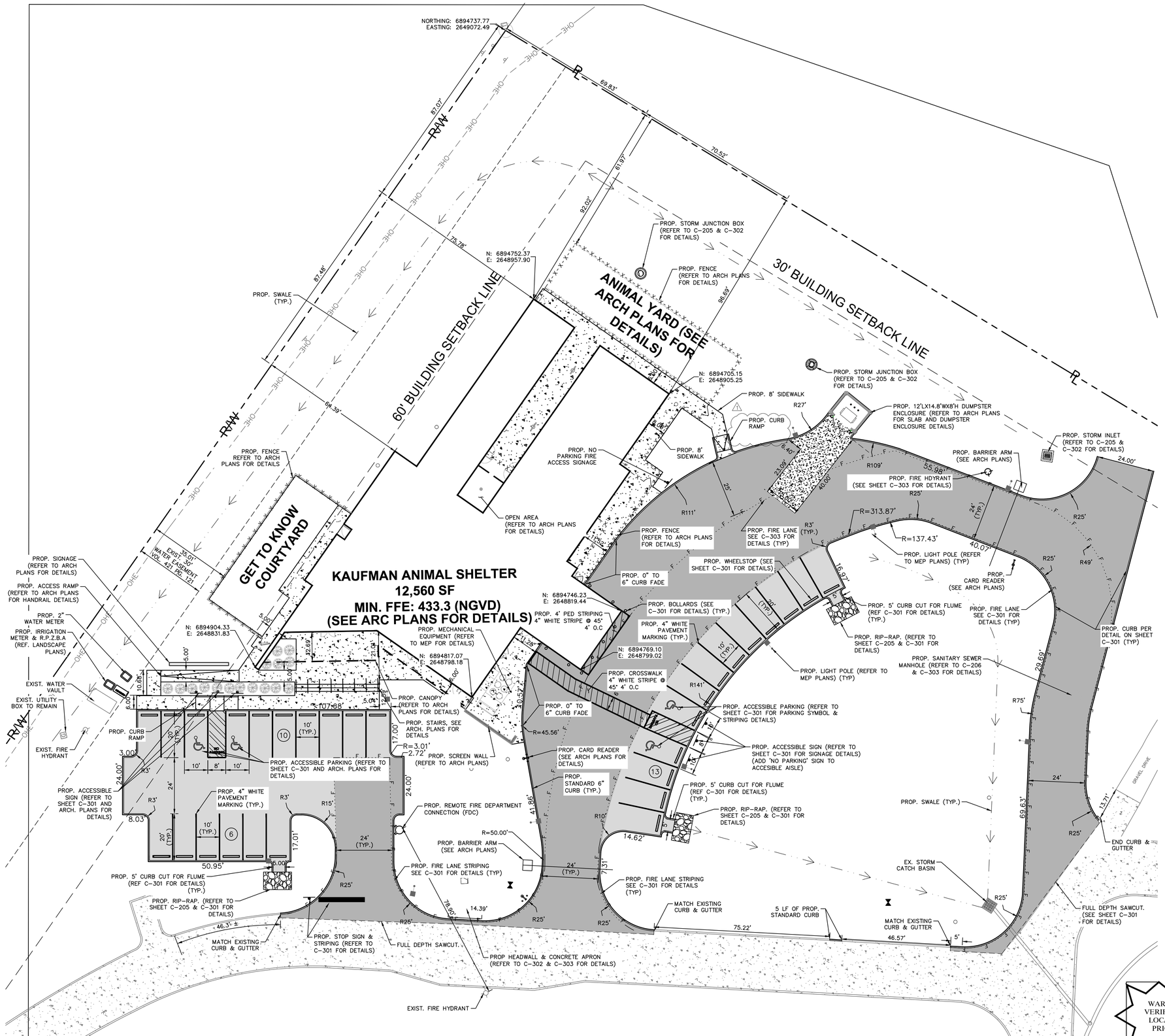
STATE OF TEXAS
JEFFREY W. DOLIAN
114926
LICENSED PROFESSIONAL ENGINEER
1/14/2021

KHA PROJECT	143263000
DATE	Jan-2021
SCALE	AS SHOWN
DESIGNED BY	JMP
DRAWN BY	JMP
CHECKED BY	JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

OVERALL SITE PLAN

SHEET NUMBER
C-201



GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND:

R/W — — ℞	PROPERTY LINE AND/OR RIGHT–OF–WAY
———	BUILDING OUTLINE
⑩	PARKING COUNT
▨	PROP. 4" SIDEWALK CONCRETE PAVEMENT
▢	PROP. 5" LIGHT DUTY CONCRETE PAVEMENT
■	PROP. 6" HEAVY DUTY CONCRETE PAVEMENT
▨	PROP 7" DUMPSTER PAD PAVEMENT
——....F.....F.....F.....F——	PROPOSED FIRE LANE STRIPING
–X–X–X–X–X–X–X–X–X–X–X–	PROPOSED FENCE (REFER TO ARCH PLANS FOR DETAILS)

SITE SUMMARY TABLE (ANIMAL SHELTER)	
PROPERTY ID	56874
PROJECT ADDRESS	1904 HWY 175
COUNTY	KAUFMAN
EXISTING ZONING	HIGHWAY COMMERCIAL (HC)
DEVELOPMENT AREA	2.91 ACRES (126,981 SF)
TOTAL BUILDING AREA	12,560 SF (9.9% LOT COVERAGE)
PATRON AREA	3,018 SF
TOTAL AUTO PARKING (AS SHOWN IN PLAN)	29 SPACES (16 VISITOR & 13 EMPLOYEE)
REQUIRED AUTO PARKING	11 SPACES (1/300 PER KAUFMAN ORDINANCE)
PROPOSED ACCESSIBLE PARKING	4 SPACES
REQUIRED ACCESSIBLE PARKING	2 SPACES

PROPERTY SUMMARY TABLE	
SITE AREA	1,959,416 SF / 44.9 ACRES
BUILDING AREA	NEW ANIMAL SHELTER: 12,560 SF NEW JUSTICE CENTER : 98,586 SF EXISTING JAIL: 114,229 SF TOTAL AREA: 225,375 SF
BUILDING HEIGHT	NEW ANIMAL SHELTER: 2 STORIES NEW JUSTICE CENTER: 3 STORIES EXISTING JAIL: 2 STORIES
LOT COVERAGE	225,375 /1,959,416 = 11.50%
FLOOR AREA RATIO	225,375 /1,959,416 = 1:11.50
TOTAL PARKING REQUIRED (1/300 PER KAUFMAN ORDINANCE)	NEW ANIMAL SHELTER: 11 SPACES NEW JUSTICE CENTER: 329 SPACES
PARKING PROVIDED	EXISTING: 188 SPACES NEW ANIMAL SHELTER: 29 SPACES NEW JUSTICE CENTER: 298 SPACES TOTAL PARKING: 515 SPACES

NOTES

1. ALL PROPOSED SIGNAGE WILL BE IN ACCORDANCE WITH SECTION 44, SIGN REGULATIONS.
2. THE ADJACENT PROPERTIES ARE ZONED HIGHWAY COMMERCIAL
3. THE ZONING OF THE DEVELOPMENT INCLUDES SPECIFIC USE PERMIT -20 (SUP-20) FOR A 440 FOOT COMMUNICATION TOWER APPROVED BY ORDINANCCE O-08-10.
4. ALL REQUIREMENTS OF SECTION 43.2 NON RESIDENTIAL SITE LIGHT AND GLARE STANDARDS SHALL BE MET.
5. REFER TO SHEET C-100 FOR GENERAL NOTES.
6. CONTRACTOR TO VERIFY BUILDING ENVELOPE VERSUS FINAL ARCHITECTURAL PLANS PRIOR TO STAKING.
7. REFERENCE ARCHITECTURE SHEETS FOR ALL BUILDING DIMENSIONS AND DOOR LOCATIONS.
8. FIRE LANES SHALL REMAIN OPEN/ ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION; FIRE LANE SHALL BE INSTALLED & ACCEPTED BY THE CITY PRIOR TO ANY CONSTRUCTION OF THE ABOVE FOUNDATION.
9. HAND POURED CONCRETE SIDEWALKS SHALL BE VIBRATED BY HAND VIBRATORS AND HAVE A MINIMUM CEMENT CONTENT OF FIVE (5) SACKS PER CUBIC YARD.
10. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED UTILITY RELOCATIONS WITHIN R.O.W. AT THE CONTRACTOR'S EXPENSE.
11. REFER TO GEOTECHNICAL EXPLORATION REPORT (G202314) PREPARED BY ALPHA TESTING FOR GEOTECHNICAL.

BENCHMARK

1. SQUARE CUT IN THE END OF HEADWALL ON THE WEST SIDE OF U.S. HIGHWAY 175 FRONTAGE ROAD.
   ELEV: 406.24'
2. "X" CUT ON BACK OF CURB, 76 FT EAST OF EXIST. FIRE HYDRANT
   N:6894979.422
   E:2648746.505
   ELEV:425.80

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

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JEFFREY W. DOLIAN
114926
1/14/2021

KHA PROJECT	143263000
DATE	Jan-21
SCALE	AS SHOWN
DESIGNED BY	JMP
DRAWN BY	JMP
CHECKED BY	JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN
TEXAS

SITE PLAN

SHEET NUMBER
C-202

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND:

- PROPERTY LINE AND/OR RIGHT-OF-WAY (R/W — P/L)
- BUILDING OUTLINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SWALE
- SPOT ELEVATION (M.E.: MATCH EXISTING, F.F.: FINISHED FLOOR, F.L.: FLOW LINE, T.S.: TOP OF STAIR, B.S.: BOTTOM OF STAIR)
- SLOPE DIRECTION (e.g. 5.64%)

GRAPHIC SCALE IN FEET
0 2.5 5 10

KENNEL DRAIN TO SANITARY SEWER REF. MEP PLANS (TYP.)

PROP. TRENCH DRAIN (REFER TO C-302 FOR DETAILS)

PROP. TRENCH DRAIN (REFER TO C-302 FOR DETAILS)

INSET A - EXTERIOR KENNEL

EXIST. UNDERGROUND FIBER LINE TO REMAIN

EXIST. UNDERGROUND POWER LINE TO REMAIN

GRAPHIC SCALE IN FEET
0 5 10 20

INSET B - ADA ACCESS

3H:1V MAX

CONTRACTOR TO ADJUST UTILITY VAULTS MIN 3" ABOVE PROP. GRADE

GET TO KNOW COURTYARD

KAUFMAN ANIMAL SHELTER
12,560 SF
MIN. FFE: 433.3 (NGVD)

REFER TO INSET A FOR DETAILS

REFER TO INSET B FOR DETAILS

0" to 6" CURB FADE

0" to 6" CURB FADE

0" to 6" CURB FADE

NO PARKING

BENCHMARK

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   ELEV: 406.24'
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   N:6894979.422
   E:2648746.505
   ELEV.425.80

NOTES

1. ALL GRADING SPOTS SHOWN REFERENCE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. ALL SIDEWALKS SHALL HAVE A MAX. OF 2% CROSS SLOPE.
3. SEE ARCHITECTURAL PLANS FOR DETAILED GRADING AROUND BUILDING.
4. CONTRACTOR TO VERIFY T.A.S. COMPLIANCE. FOR ANY QUESTIONS CONTACT OWNER/ARCHITECT IMMEDIATELY.
5. CONTRACTOR TO VERIFY ENGINEERING PLANS MATCH ARCHITECTURAL PLANS BEFORE CONSTRUCTION STAKING.
6. GRADES IN ACCESSIBILITY ROUTING, INCLUDING CROSSING DRIVEWAYS, SHALL CONFORM TO T.A.S. STANDARDS: NOT TO EXCEED 5.0% ALONG TRAVEL PATH WITH NOT MORE THAN 2.0% CROSS SLOPE.
7. ALL TREES, STUMPS, BRUSH, GRASSES AND SURFACE ORGANICS ARE TO BE REMOVED AND PROPERLY DISPOSED OF OFFSITE UNLESS OTHERWISE NOTED ON THE LANDSCAPE PLAN. TREE REMOVAL PERMITS SHALL BE OBTAINED BY THE OWNER OR THE CONTRACTOR PRIOR TO COMMENCEMENT OF GRADING.
8. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PER THE PLANS AND MAINTAIN STREETS FREE OF MUD, DIRT AND DEBRIS FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES. SEE EROSION CONTROL SHEET C-208 FOR SPECIFIC DETAILS AND REQUIREMENTS.
9. CONTRACTOR TO COORDINATE SPOT GRADES OF PROPOSED SIDEWALKS AS THEY APPROACH THE BUILDING WITH THE ARCHITECT.

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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KHA PROJECT 143263000
DATE Jan-2021
SCALE AS SHOWN
DESIGNED BY JMP
DRAWN BY JMP
CHECKED BY JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

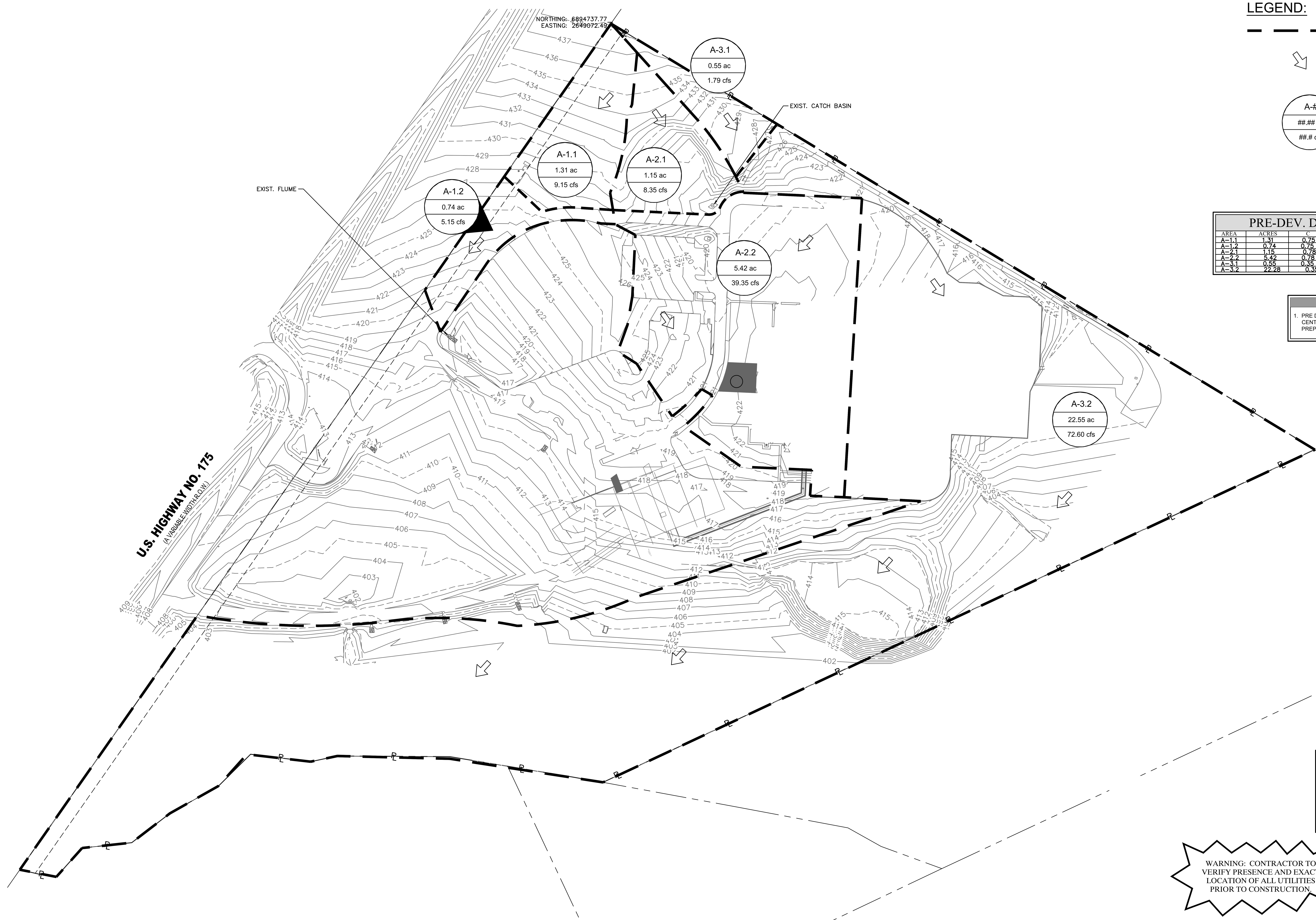
GRADING PLAN

SHEET NUMBER
C-203

LAST SAVED 1/13/2021 10:12 AM By PIERRE_JAMI
PLOTTED BY PIERRE_JAMI 1/13/2021 3:31 PM
XREF NAME C-500 PAVING GRADING AND DRAINAGE PLAN.dwg
DWG NAME K:\MB_Civil\143263000 Kaufman Animal Shelter\CIVIL\CADD\PlanSheets\C-500 PAVING GRADING AND DRAINAGE PLAN.dwg
Plotted By Pierre, Jami Sheet Set KAUFMAN ANIMAL SHELTER Layout C-503 GRADING PLAN January 13, 2021 03:31:05pm

GRAPHIC SCALE IN FEET

0 50 100 200



LEGEND:

BASIN DELINIATION

FLOW DIRECTION

A-#
##.## ac
##.# cfs

-DRAINAGE AREA I.D. NUMBER
-AREA (IN ACRES)
-FLOW (IN CFS)

PRE-DEV. DRAINAGE AREA CALCULATIONS

AREA	ACRES	C	T	I	Q	COMMENTS
A-1.1	1.31	0.75	10.0	9.31	9.15	DRAINS THROUGH DRIVE
A-1.2	0.74	0.75	10.0	9.31	5.15	DRAINS THROUGH DRIVE
A-2.1	1.15	0.78	10.0	9.31	8.35	DRAINS TO EXIST 30" RCP
A-2.2	5.42	0.78	10.0	9.31	39.35	DRAINS TO EXIST 30" RCP
A-3.1	0.55	0.35	10.0	9.31	1.79	SITE BYPASS
A-3.2	22.28	0.35	10.0	9.31	72.60	SITE BYPASS

NOTE

1. PRE DEVELOPMENT AREA CALCULATIONS ARE IN REFERENCE TO JUSTICE CENTER PROPOSED DRAINAGE AREA MAP FOR FULL SITE DRAINAGE, PREPARED BY JQ ENGINEERING DATED 09/04/2020.

BENCHMARK

1. SQUARE CUT IN THE END OF HEADWALL ON THE WEST SIDE OF U.S. HIGHWAY 175 FRONTAGE ROAD.
   ELEV: 406.24'

2. "X" CUT ON BACK OF CURB, 76 FT EAST OF EXIST. FIRE HYDRANT
   N:6894979.422
   E:2648746.505
   ELEV:425.80

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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STATE OF TEXAS
JEFFREY W. DOLIAN
114926
PROFESSIONAL ENGINEER
1/14/2021

KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
143263000	Jan-2021	AS SHOWN	JMP	JMP	JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

EXISTING DESIGN DRAINAGE AREA MAP

SHEET NUMBER
C-204

NORTHING: 6894737.77
EASTING: 2649072.49

BENCHMARK

1. SQUARE CUT IN THE END OF HEADWALL ON THE WEST SIDE OF U.S. HIGHWAY 175 FRONTAGE ROAD.
   ELEV: 406.24'
2. "X" CUT ON BACK OF CURB, 76 FT EAST OF EXIST. FIRE HYDRANT
   N:6894979.422
   E:2648746.505
   ELEV:425.80

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND:

- BASIN DELINIATION
- FLOW DIRECTION
- A-# / ##.## ac / ##.# cfs — DRAINAGE AREA I.D. NUMBER / AREA (IN ACRES) / FLOW (IN CFS)

STORM A: 4+85.14
PROP. MANHOLE PER NCTCOG STORM WATER MANHOLE DETAILS (SEE C-302 FOR DETAILS)
RIM: 432.45
FL IN: 6" 429.49'
FL OUT: 6" 429.49'

63 LF OF 6" HDPE @ 2.76%

STORM A: 4+02.35
PROP. MANHOLE PER NCTCOG STORM WATER MANHOLE DETAILS (SEE C-302 FOR DETAILS)
RIM: 431.75
FL IN: 6" 427.21'
FL IN: 6" 427.21'
FL OUT: 15" 426.46'

STORM A: 2+94.14
PROP. TXDOT TYPE C INLET
RIM: 428.51'
FL IN: 15" 423.47'
FL OUT: 15" 423.47'

108 LF OF 15" HDPE @ 2.76%

ROOF DRAIN CONNECTION REF. MEP PLANS FOR CONTINUATION

PROP. TRENCH DRAIN
RIM: 433.10
FL: 431.10
REFER TO C-302 FOR DETAILS

45 LF OF 6" HDPE @ 1.00%

38 LF OF 6" HDPE @ 3.75%

40 LF OF 6" HDPE @ 1.44%

PROP. 6"x6" WYE CONNECTION

88 LF OF 4" HDPE @ 1.44%

KAUFMAN ANIMAL SHELTER
12,560 SF
MIN. FFE: 433.3 (NGVD)

A-1.1 / 1.37 ac / 6.89 cfs

A-2.1 / 1.34 ac / 6.44 cfs

A-3.1 / 0.28 ac / 1.70 cfs

PROP. 2" WATER PIPE REFER TO C-206

PROP. OPEN CHANNEL FLUME

PROP. 8" WATER PIPE REFER TO SHEET C-206

PROP. WATER PIPE (TYP.) REFER TO C-206

35 LF OF 6" HDPE @ 5.00%

PROP. OPEN CHANNEL FLUME

INSTALL ±10 SY OF 18" THICK ROCK RIPRAP WITH 6" THICK BEDDING PER GRADATION TABLES ON SHEET C-303, UNDERLAY WITH TXDOT TYPE 2 FILTER FABRIC

INSTALL ±2.5 SY OF 18" THICK ROCK RIPRAP WITH 6" THICK BEDDING PER GRADATION TABLES ON SHEET C-303, UNDERLAY WITH TXDOT TYPE 2 FILTER FABRIC

STORM B: 0+00.00
CONTRACTOR TO CONNECT DRAINAGE PIPE TO OUTFALL THROUGH 3'x5'x5" CONCRETE PAD
FL IN: 6" 428.00'

PROP. OPEN CHANNEL FLUME

INSTALL ±10 SY OF 18" THICK ROCK RIPRAP WITH 6" THICK BEDDING PER GRADATION TABLES ON SHEET C-303, UNDERLAY WITH TXDOT TYPE 2 FILTER FABRIC

194 LF OF 15" HDPE @ 2.76%

PROP. 6" WATER PIPE REFER TO SHEET C-206

CONTRACTOR TO LOWER EXIST. W.M. PER DET. S06.6 SHEET C-303

INSTALL ±10 SY OF 18" THICK ROCK RIPRAP WITH 6" THICK BEDDING PER GRADATION TABLES ON SHEET C-303, UNDERLAY WITH TXDOT TYPE 2 FILTER FABRIC

STORM A: 1+00.00
EXIST. STORM INLET
RIM: 420.79
FL IN: 15" 418.13'
EX. FL OUT: 417.34'

EXIST. 8" W.M.

EXIST. 8" W.M

PROP. 8" SEWER REFER TO SHEET C-206

POST DEV DRAINAGE AREA CALCULATIONS

DA	Impervious (SF)	Pervious (SF)	Total (SF)	Total (AC)	Weighted C Value	ToC (min)	I	Q (cfs)	Comments
A-1.1	23963.7	35512.6	59476.3	1.37	0.54	10.0	9.31	6.89	DRAINS TO EXISTING DRIVE
A-2.1	21089.8	37209.0	58298.8	1.34	0.52	10.0	9.31	6.44	DRAINS TO EXISTING STORM
A-3.1	7060.1	5340.8	12400.9	0.28	0.64	10.0	9.31	1.70	SITE BYPASS

NOTES

1. THE SUBJECT PROPERTY IS APPROXIMATELY 2.98 ACRES AND WILL NOT NEED DETENTION SINCE PROPOSED RUNOFF DOES NOT EXCEED EXISTING SITE DRAINAGE DESIGN.

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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STATE OF TEXAS
JEFFREY W. DOLAN
114926
LICENSED PROFESSIONAL ENGINEER
1/14/2021

KHA PROJECT 143263000
DATE Jan-2021
SCALE AS SHOWN
DESIGNED BY JMP
DRAWN BY JMP
CHECKED BY JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN
TEXAS

DRAINAGE PLAN

SHEET NUMBER
C-205

LAST SAVED 1/13/2021 2:05 PM
PLOTTED BY PIERRE_JARL, 1/13/2021 3:33 PM
FILE NAME K:\MIB_Civil\143263000 Kaufman Animal Shelter\CIVIL\CADD\PlanSheets\C-204 DRAINAGE PLAN.dwg
DWG NAME C-204 DRAINAGE PLAN
Plotted By: Pierre, Jarl Sheet Set: KAUFMAN ANIMAL SHELTER Layout: C-600 DRAINAGE PLAN January 13, 2021 03:31:59pm K:\MIB_Civil\143263000 Kaufman Animal Shelter\CIVIL\CADD\PlanSheets

NORTHING: 6894737.77
EASTING: 2649072.49

EXIST. UNDERGROUND FIBER LINE TO REMAIN

EXIST. UNDERGROUND POWER LINE TO REMAIN

STA: 3+34.61
PROP. SANITARY SEWER CONNECTION SEE MEP DWGS FOR CONTINUATION
FL 6": 423.86

PROP. STORM DRAINAGE SYSTEM (SEE SHEET C-205)

N: 6894580.13
E: 2648841.57
WATER D: 2+00.83
PROP. FIRE HYDRANT

212 LF OF 6" (SDR-26) PVC @ 3.53%

17 LF OF 6" FIRE LINE

CONTRACTOR TO VERIFY MIN. 2' VERTICAL CLR. FROM PROP. W.M. REFER TO NOTE 6

GET TO KNOW COURTYARD

KAUFMAN ANIMAL SHELTER
12,560 SF
MIN. FFE: 433.3 (NGVD)

PROP. DOMESTIC WATER FIRE SPRINKLER AND FIRE DEPARTMENT CONNECTION (REFER TO MEP PLAN FOR CONTINUATION)

EXISTING WATER MAIN (CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION)

N: 6894976.48
E: 2648858.69
CONTRACTOR TO FIELD VERIFY EXACT HORIZONTAL & VERTICAL LOCATION)
INSTALL:
1 – 2" TAPPING SADDLE

INSTALL:
1 – 2" DOMESTIC WATER METER

INSTALL:
1 – 1" IRRIGATION WATER METER & R.P.Z.B.A.

263 LF OF PROP. 2" DOMESTIC SERVICE

EX. WATER METER. ADJUST RIM ELEV. TO MATCH PROP. GRADE

INSTALL:
1 – 1" TAPPING SADDLE

WATER B: 0+60.02
PROP. 22.5° BEND

WATER C: 0+43.87
PROP. 22.5° BEND

WATER B: 0+26.40
PROP. FIRE DEPARTMENT CONNECTION

CONTRACTOR TO INSTALL VERTICAL BENDS AS NECESSARY TO MAINTAIN MIN. 2' VERTICAL CLEARANCE FROM EX. W.M.

PROP. STORM DRAINAGE SYSTEM (SEE SHEET C-205)

WATER C: 0+75.65
PROP. 6" G.V.

WATER C: 0+00.00
N: 6894821.43
E: 2648710.10
CONNECT TO EXISTING WATER MAIN
INSTALL:
1 – 6" TAPPING SADDLE

EXISTING FIRE HYDRANT

WATER D: 1+23.62
PROP. 22.5° BEND

WATER D: 0+06.91
PROP. TAP VALVE

N: 6894665.70
E: 2648665.36
WATER D: 0+00
PROP. 6" TAPPING SADDLE

CONTRACTOR TO LOWER EXIST. W.M. PER DET. 506.6 (SHEET C-303) IF 2' SEPARATION IS NOT MAINTAINED

N: 6894565.40
E: 2648739.66
SEWER: 1+23.03
PROP. DROP SAN. SEWER MANHOLE (INSIDE CONNECTION)
RIM: 425.12
FL 6": 416.38
FL 8": 413.80

123 LF OF 8" (SDR-26) PVC @ 0.62%

SEWER: 0+00.00
CONNECT TO EXIST. SAN. SEWER MANHOLE
CONTRACTOR TO VERIFY ELEV. OF EX. SAN. SEWER PRIOR TO CONSTRUCTION & NOTIFY ENGINEER OF ANY DISCREPANCIES
RIM: 420.06
FL 8": 413.04
FL EX. 8": ±413.5

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

811 Know what's **below.** **Call** before you dig.

GRAPHIC SCALE IN FEET
0 10 20 40

LEGEND:

- PROPERTY LINE AND/OR RIGHT-OF-WAY
- PROPOSED BUILDING OUTLINE
- PROP. WATER MAIN
- PROP. SANITARY SEWER
- EXIST. WATER MAIN
- EXIST. FIBER
- EXIST. UNDERGROUND POWERLINE

WATER NOTES

1. NO WATER JETTING ALLOWED IN THE PUBLIC R.O.W.
2. WATER MAINS SHALL HAVE A MINIMUM BURY DEPTH OF 48" FROM FINISHED GRADE TO TOP OF PIPE.
3. WATER LINES/ MAINS GREATER THAN 2" UP TO 12" SHALL BE CLASS 200 PVC C-900 DR-14.
4. ALL GATE VALVES SHALL BE VERTICALLY ORIENTED.
5. WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS IN TCEQ CHAPTER 290 FOR WATER CROSSINGS WITH WASTEWATER LINES.
7. REFERENCE MEP PLANS FOR RPZ LOCATION INTERNAL TO BUILDING.
8. WATER SERVICE LINES FROM THE MAIN TO THE METER SHALL BE ENDOTRACE POLY PIPE.
9. ALL METER SERVICES CONNECTIONS SHALL BE COMPRESSION.
10. ALL FIRE HYDRANTS SHALL BE AVK OR AFC AND SHALL HAVE A 5-INCH STORZ CONNECTION WITH A BLIND CAP.
11. ALL MAIN LINE VALVES SHALL BE AVK OR AFC.
12. SERVICE LINE TAPPING SADDLES ARE REQUIRED TO BE SMITH & BLAIR WITH STAINLESS BANDS AND EPOXY COATED BODY.
13. MANHOLE RINGS AND LIDS SHALL BE 30-INCH.
14. THE FIRE HYDRANTS MUST BE EQUIPPED WITH A 5-INCH STORZ CONNECTION IN PLACE OF A SCREW-ON STEAMER CONNECTION AND THE FDC IS REQUIRED TO BE A 5-INCH STORZ CONNECTION WITH CAP AND SIGNAGE.

SEWER NOTES

1. SEE MEP PLANS FOR ALL UTILITY CONNECTIONS INTO BUILDING.
2. SEWER LINES STUB OUT 5' FROM THE BUILDING FOR SERVICE CONNECTION, UNLESS OTHERWISE NOTED.
3. SANITARY SEWER MAINS SHALL BE ASTM D 2241 (SDR-26).

BENCHMARK

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   ELEV: 406.24'
2. "X" CUT ON BACK OF CURB, 76 FT EAST OF EXIST. FIRE HYDRANT
   N:6894979.422
   E:2648746.505
   ELEV:425.80

No.	REVISIONS	DATE	BY
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STATE OF TEXAS
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1/14/2021

KHA PROJECT 143263000
DATE Jan-2021
SCALE AS SHOWN
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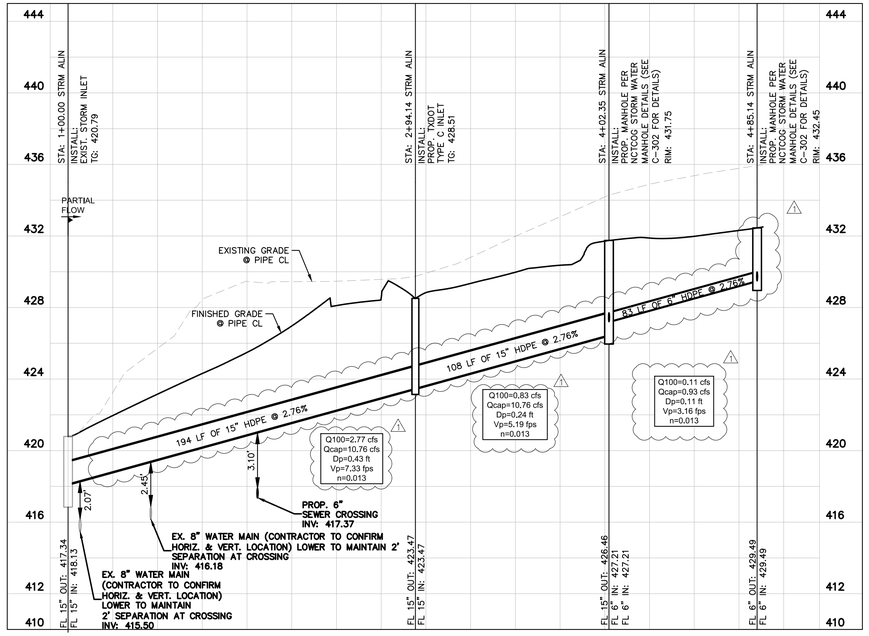
CHECKED BY JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

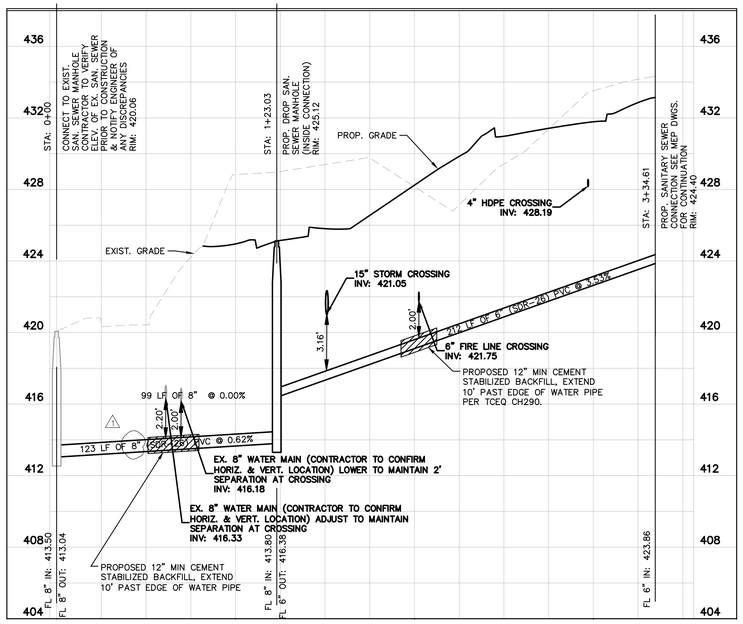
UTILITY PLAN

SHEET NUMBER
C-206

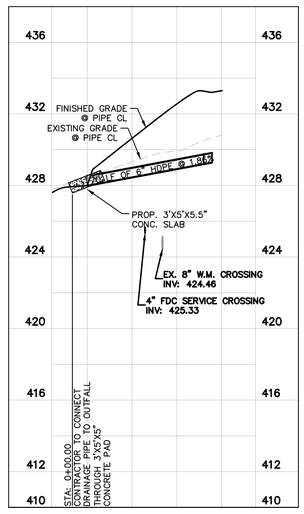
LAST SAVED 1/13/2021 2:58 PM
PLOTTED BY PIERRE, JAMI, 1/13/2021 3:32 PM
PLOTTED ON Wednesday, January 13, 2021 03:32:40pm
DWG NAME C:\Users\pierre.jami\Desktop\Shelter\Civil\CADD\Plan Sheets\C-600 WATER AND SEWER PLAN.dwg
Plotted By: Pierre, Jami Sheet Set: KAUFMAN ANIMAL SHELTER Layout: C-700 UTILITY PLAN January 13, 2021 03:32:40pm K:\MIB_Civil\143263000 Kaufman Animal Shelter\CIVIL\CADD\Plan Sheets\C-600 WATER AND SEWER PLAN.dwg



STORM PROFILE A (SEE SHEET C-205 FOR LAYOUT)



SEWER PROFILE (SEE SHEET C-206 FOR LAYOUT)



STORM PROFILE B (SEE SHEET C-205 FOR LAYOUT)

GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL

0 2 4 8
VERTICAL

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	JP

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

STATE OF TEXAS
JEFFREY W. DOLAN
114926
LICENSED PROFESSIONAL ENGINEER
1/14/2021

KHA PROJECT	143263000
DATE	Jan-2021
SCALE	AS SHOWN
DESIGNED BY	JMP
DRAWN BY	JMP
CHECKED BY	JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

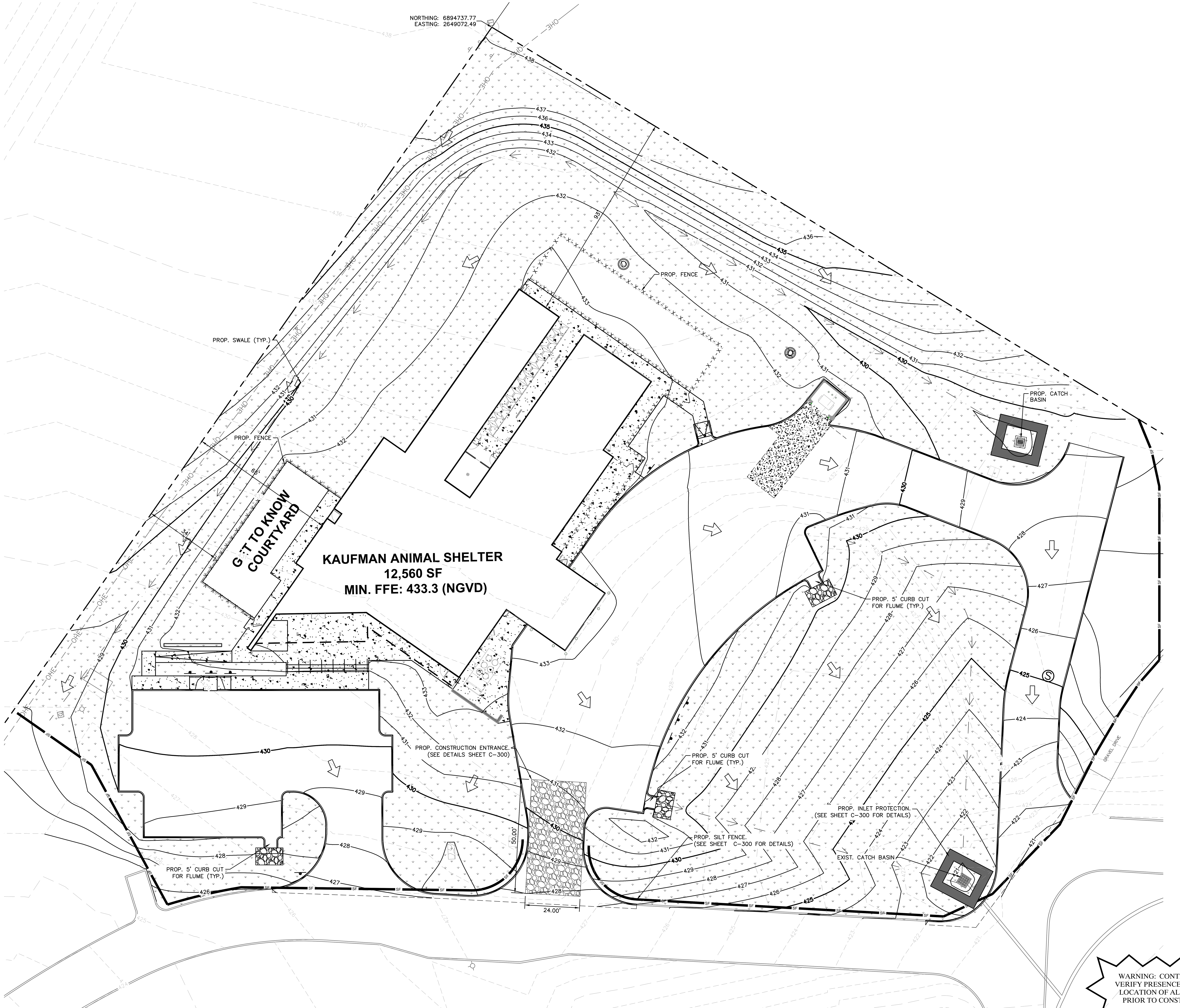
DRAINAGE AND UTILITY PROFILE

SHEET NUMBER
C-207

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

811 Know what's **below.** **Call** before you dig.

LAST SAVED 1/13/2021 2:58 PM
PLOTTED BY PIERRE JAMIL 1/13/2021 3:32 PM
FILE NAME K:\MIB_Civil\143263000 Kaufman Animal Shelter\CIVIL\CADD\PlanSheets\C-600 WATER AND SEWER PLAN.dwg
DWG NAME C-600 WATER AND SEWER PLAN
Plotted By:Pierre, Jamil Sheet Set:KAUFMAN ANIMAL SHELTER Layout:C-701 DRAINAGE AND UTILITY PROFILE January 13, 2021 03:32:51pm K:\MIB_Civil\143263000 Kaufman Animal Shelter\CIVIL\CADD\PlanSheets\C-600 WATER AND SEWER PLAN.dwg



LEGEND:

R/W — — P/L	PROPERTY LINE AND/OR RIGHT-OF-WAY
	BUILDING OUTLINE
	PROP. LANDSCAPE AREA
	CONSTRUCTION ENTRANCE
SF — SF	PROP. SILT FENCE
	PROP. INLET PROTECTION
##	EXISTING CONTOURS
###	PROPOSED CONTOURS
	FLOW DIRECTION

NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
3. DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
4. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
5. BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
6. SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.
7. IN AREAS WITH 4:1 SLOPES, CONTRACTOR TO INSTALL SOIL RETENTION BLANKET IF NECESSARY.
8. ALL SAWCUT WATER SHALL BE VACUUMED AND DISPOSED PROPERLY (I.E. CONCRETE WASHOUT PIT).
9. ALL HYPERCHLORINATED WATER AND BLOW OFF WATER SHALL BE DISCHARGED INTO SANITARY SEWER SYSTEM.
10. ALL DISTURBED AREAS, WHETHER ON-SITE OR OFF-SITE, SHALL RECEIVE A FULL STAND OF GRASS (PERMANENT GRASS) PRIOR TO ISSUANCE OF ANY OCCUPANCY BY THE BUILDING AND CODE DIVISION OF COMMUNITY DEVELOPMENT.
11. THE SWPPP REPORT SHALL BE REQUIRED TO BE ON SITE DURING CONSTRUCTION AT ALL TIMES.

NOTE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO USE WHATEVER MEANS ARE NECESSARY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS, STORM DRAIN SYSTEMS AND INLETS FROM EROSION DEPOSITS. THE CONTRACTOR RESPONSIBLE FOR MAINTAINING EROSION CONTROL SHALL PROVIDE STREET CLEANING ON PUBLIC STREETS IF ANY EARTH MATERIAL IS TRANSPORTED FROM THE CONSTRUCTION SITE AT THE END OF EACH DAY. EARTH MATERIAL SHALL NOT BE ALLOWED TO ACCUMULATE ON CITY AND TXDOT ROADS.

BENCHMARK

1. SQUARE CUT IN THE END OF HEADWALL ON THE WEST SIDE OF U.S. HIGHWAY 175 FRONTAGE ROAD.
   ELEV: 406.24'
2. "X" CUT ON BACK OF CURB, 76 FT EAST OF EXIST. FIRE HYDRANT
   N:6894979.422
   E:2648746.505
   ELEV:425.80

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

811 Know what's **below.** Call before you dig.

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

STATE OF TEXAS — JEFFREY W. DOLIAN — 114926 — PROFESSIONAL ENGINEER — 1/14/2021

KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
143263000	Jan-2021	AS SHOWN	JMP	JMP	JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

EROSION CONTROL PLAN

SHEET NUMBER
C-208

STANDARD EROSION CONTROL GENERAL NOTES

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.
2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF CITY OF KAUFMAN.
3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.
4. IF OFF-SITE BORROW OR SPOILS SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOILS AREAS ARE CONSIDERED PART OF EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.
5. INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO INSURE THAT THE DEVICES ARE FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN STONES OR MUD IS BEING TRACKED ONTO A PUBLIC ROADWAY THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH DOWN OPERATION HALL SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL OFF SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.
6. CONTRACTOR SHALL HAVE A COPY THE SWPPP ON SITE AT ALL TIMES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T. AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. AND TECQ CONTRACTOR SHALL COMPLY WITH ALL E.P.A. AND TECQ STORM WATER POLLUTION PREVENTION REQUIREMENTS.

EROSION CONTROL SCHEDULE AND PHASING

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING:

PHASE 1 - DEMOLITION/GRADING
A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE AND SILT FENCE ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON GRADING AND EROSION CONTROL PLAN, NOTES, AND DETAIL SHEETS.
B. BEGIN CLEARING AND GRADING OF SITE.
C. SEED AND REVEGETATE SLOPES WHERE SHOWN.

PHASE 2 - UTILITIES
A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
B. INSTALL STORM DRAINS AS SPECIFIED ON PLAN SHEETS.
C. INSTALL INLET PROTECTION.

PHASE 3 - PAVING
A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS NEEDED TO PAVE.
B. STABILIZE SUBGRADE.
C. PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.
D. REMOVE TEMPORARY CONSTRUCTION ENTRANCE.

PHASE 4 - LANDSCAPING AND SOIL STABILIZATION
A. REVEGETATE LOT AND PARKWAYS
B. LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR LANDSCAPE VEGETATIVE COVERS.
C. REMOVE EROSION CONTROL DEVICES WHEN GROUND COVER ESTABLISHED.

B.M.P. MAINTENANCE SCHEDULE

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT:

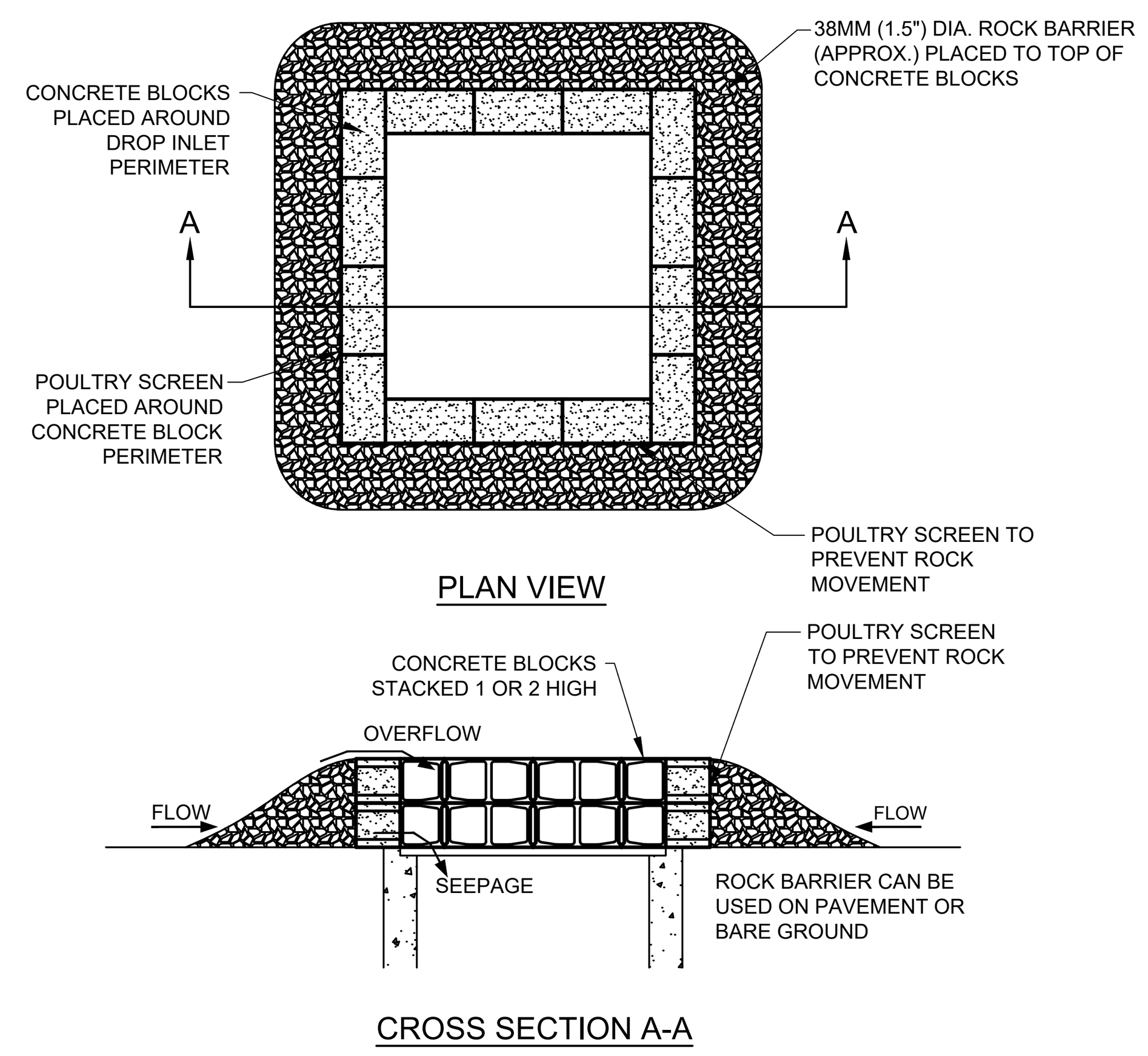
INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE FACILITY IS FUNCTIONING PROPERLY. AGGREGATE PAD SHALL BE WASHED DOWN OR REPLACED WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE SONES OR MUD IS BEING TRACKED ONTO THE PUBLIC ROADWAY. RUNOFF FROM WASH DOWN OPERATION SHALL BE FILTERED THROUGH ANOTHER B.M.P. PRIOR TO DRAINING OFF-SITE.

SILT FENCE:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-THIRD THE HEIGHT OF THE FENCE ABOVE GRADE. FENCE SHALL BE INSPECTED FOR GAPS AT BASE. INSPECT SUPPORTING POSTS AND FILTER FABRIC. REPLACE IF REQUIRED.

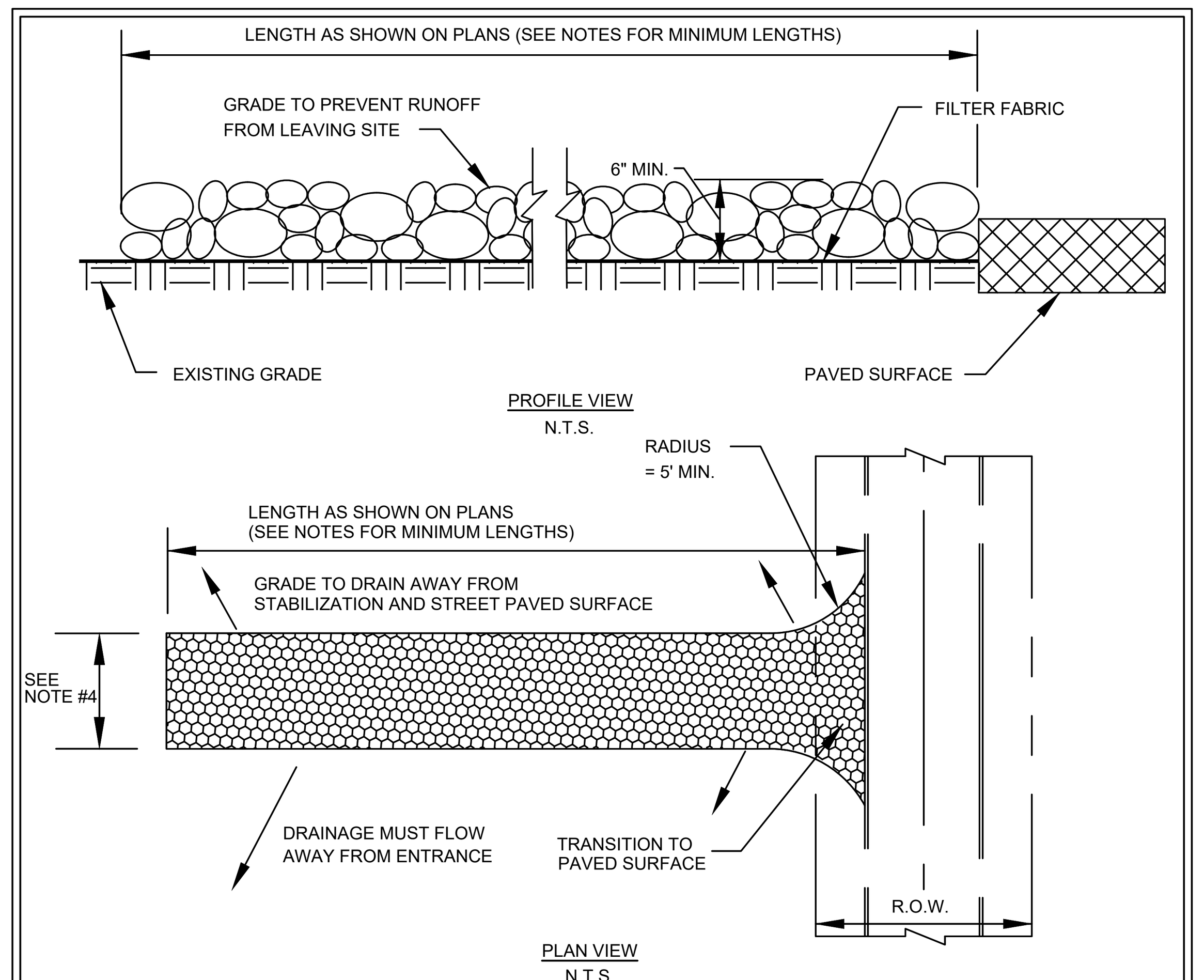
INLET PROTECTION:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. SEDIMENT SHALL BE REMOVED FROM THE STORAGE AREA WHEN SEDIMENT DEPTH HAS BUILT UP TO ONE-HALF THE DESIGN DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE SURROUNDING THE INLET. CLEAN THE STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.



GRATE AND DROP INLET PROTECTION

N.T.S.



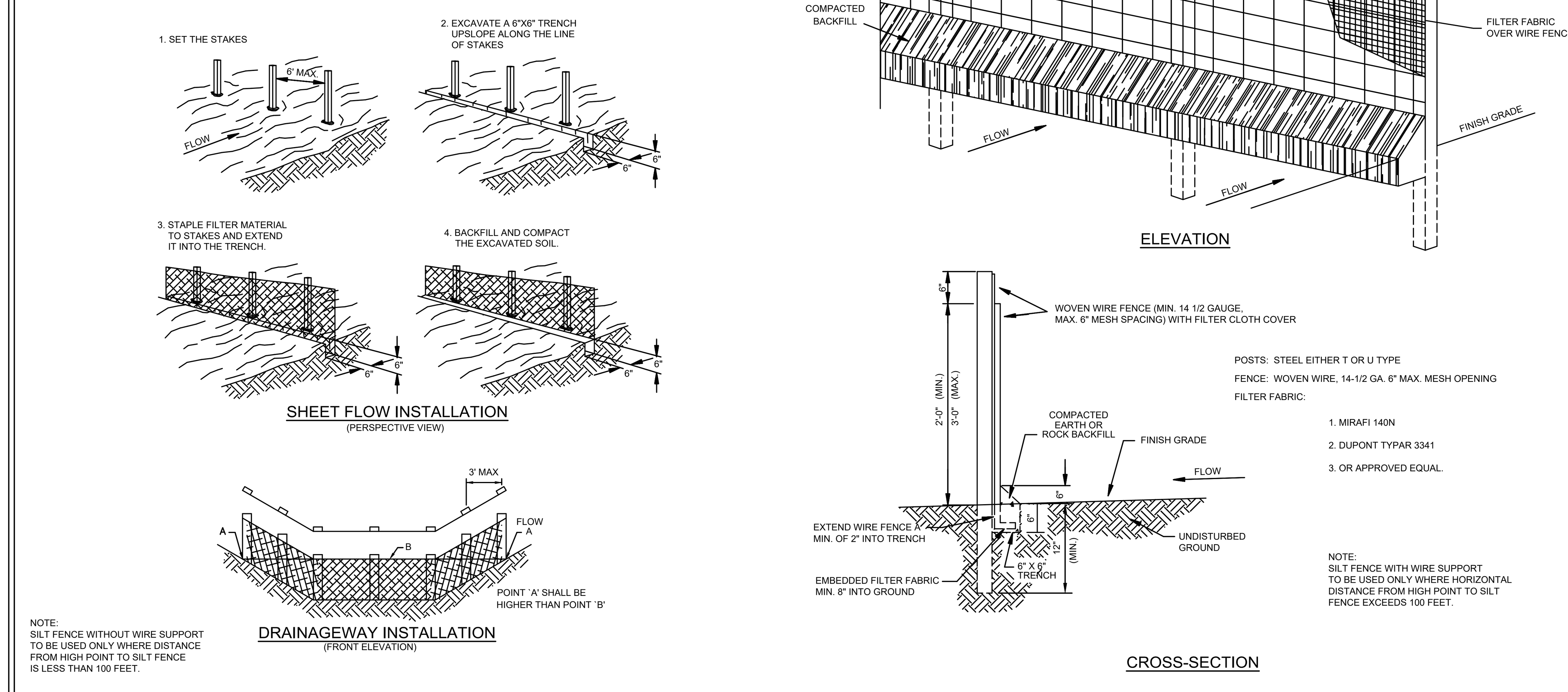
STABILIZED CONSTRUCTION ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.
3. STONE LAYER THICKNESS SHALL NOT BE LESS THAN 6
4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

SILT FENCE GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE BY USING WIRE TIES OR STAPLES SPACED EVERY 24" AT TOP AND MID SECTION, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT

N.T.S.

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811 Know what's **below.** **Call** before you dig.

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN TEXAS

EROSION CONTROL DETAILS

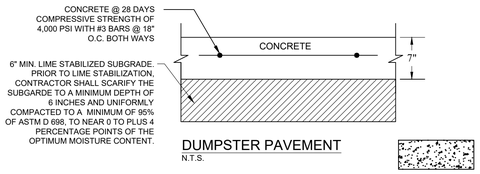
No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

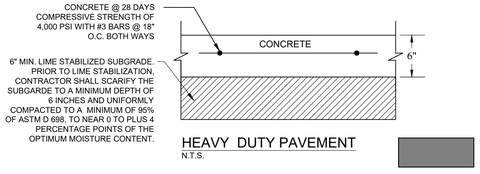
STATE OF TEXAS — JEFFREY W. DOLIAN — 114926 — PROFESSIONAL ENGINEER — 1/14/2021

KHA PROJECT	143263000
DATE	Jan-2021
SCALE	AS SHOWN
DESIGNED BY	JMP
DRAWN BY	JMP
CHECKED BY	JWD

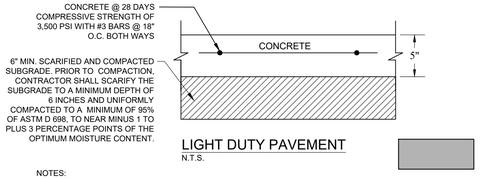
SHEET NUMBER
C-300



DUMPSTER PAVEMENT
N.T.S.



HEAVY DUTY PAVEMENT
N.T.S.



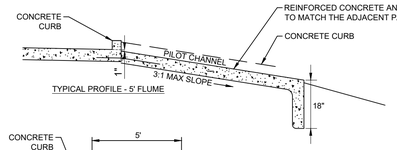
LIGHT DUTY PAVEMENT
N.T.S.

NOTES:

1. PAVEMENT SECTIONS PROVIDED IN THIS LOCATION FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE RELIED UPON FOR COMPLETE ACCURACY. CONTRACTOR SHALL VERIFY ALL INFORMATION WITH THE GEOTECHNICAL ENGINEERING BY ALPHA TESTING, INC., REPORT NO. G202314, DATED OCTOBER 7TH, 2020 INCLUDING ALL REVISIONS AND ADDENDA TO THIS REPORT THAT MAY HAVE BEEN RELEASED AFTER THE NOTED DATE.
2. CONTRACTOR SHALL REFER TO GEOTECH REPORT FOR ALTERNATE SUBGRADE PREPARATIONS INCLUDING THE USE OF A FLEXIBLE BASE IN LIEU OF LIME TREATMENT.
3. CONTRACTOR SHALL REFERENCE CITY DETAILS P-11 AND P-12 ON SHEET C-303 FOR CONCRETE JOINT DETAILS.

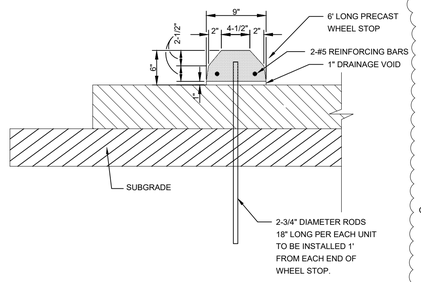
Pavement Details

NOT TO SCALE



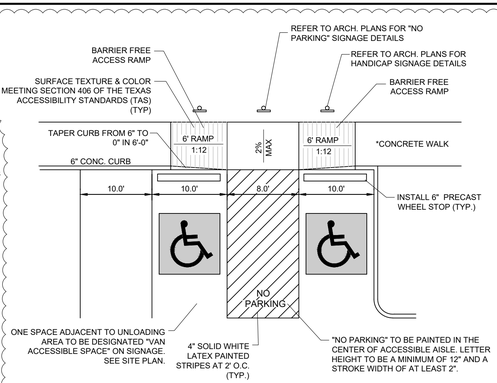
5' FOOT FLUME DETAIL

N.T.S.



PRECAST CONCRETE WHEEL STOP DETAIL

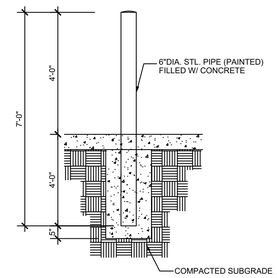
N.T.S.



NOTES:
1. * DIMENSIONS MAY VARY REFER TO DIMENSIONAL CONTROL PLAN
2. SIGNAGE AND MARKINGS TO BE IN ACCORDANCE WITH FEDERAL STATE AND LOCAL REGULATIONS.
3. MAXIMUM SLOPE FOR HANDICAPPED ACCESSIBLE PATHS ARE 5% WITH A MAXIMUM CROSS FALL SLOPE OF 2%. THE FIRST FIVE FEET FROM THE DOOR IS NOT TO EXCEED 2% IN ANY DIRECTION.

ACCESSIBLE PARKING & ACCESS RAMP DETAIL

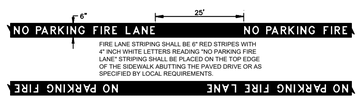
N.T.S.



NOTE:
REFER TO ARCHITECTURAL PLANS FOR ALTERNATE BOLLARD DETAIL.

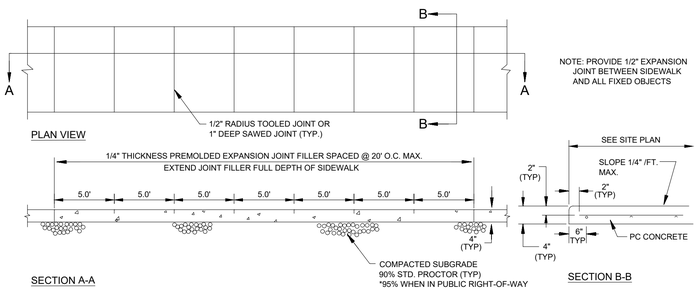
Bollard Detail

NOT TO SCALE



FIRE LANE MARKING

N.T.S.



NOTES:
1. CONCRETE SHALL BE 3000 PSI @ 28 DAYS.
2. REINFORCEMENT SHALL BE #3 BARS ON 18 INCH CENTERS, ON CHAIRS OR STEEL POSTS (NO WELDED WIRE FABRIC WILL BE ACCEPTABLE AS A SUBSTITUTE FOR STEEL BARS).
3. FINISH OF THE TOP SURFACE SHALL BE "LIGHT BROOM FINISH" WITH SCORED TOOL JOINTS.
4. SLOPE OF WALK SHALL NOT EXCEED 2% MAX. OR APPROVED BY THE CITY ENGINEER.
5. MIN. CONCRETE THICKNESS ON SIDEWALK SHALL BE 4 INCHES. MIN. CONCRETE THICKNESS ON BARRIER FREE RAMP PAY LIMIT AREA SHALL BE 6 INCHES.
6. INSTALL REDWOOD EXPANSION JOINTS @ 40' O.C. ON SIDEWALKS.
7. IF AN ACCESSIBLE ROUTE HAS LESS THAN 60 IN. (1525 MM) CLEAR WIDTH THEN PASSING SPACES AT LEAST 60 IN BY 60 IN (1525 MM BY 1525 MM) SHALL BE LOCATED AT REASONABLE INTERVALS NOT TO EXCEED 200 FT (61 M).

Concrete Sidewalk

NOT TO SCALE

RIPRAP GRADATIONS — 12" THICKNESS OF RIPRAP

SIEVE SIZE SQUARE MESH	PERCENT PASSING
15 INCH	100
12 INCH	70 – 100
8 INCH	45 – 75
6 INCH	30 – 55
3 INCH	10 – 30
1-1/2 INCH	0 – 10

BEDDING GRADATIONS — 6" THICKNESS OF BEDDING

SIEVE SIZE SQUARE MESH	PERCENT PASSING
3 INCH	100
1-1/2 INCH	55 – 100
3/4 INCH	25 – 60
3/8 INCH	5 – 30
No.4	0 – 10

RIPRAP GRADATIONS — 8" THICKNESS OF RIPRAP

SIEVE SIZE SQUARE MESH	PERCENT PASSING
10 INCH	100
8 INCH	70 – 100
6 INCH	50 – 75
3 INCH	20 – 40
1-1/2 INCH	0 – 15

BEDDING GRADATIONS — 9" THICKNESS OF BEDDING

SIEVE SIZE SQUARE MESH	PERCENT PASSING
6 INCH	100
3 INCH	65 – 100
1-1/2 INCH	40 – 60
3/4 INCH	25 – 40
No.4	0 – 12

RIPRAP GRADATIONS — 36" THICKNESS OF RIPRAP

SIEVE SIZE SQUARE MESH	PERCENT PASSING
44 INCH	100
36 INCH	65 – 100
30 INCH	50 – 80
18 INCH	25 – 45
12 INCH	10 – 25
8 INCH	0 – 10

RIPRAP GRADATIONS — 24" THICKNESS OF RIPRAP

SIEVE SIZE SQUARE MESH	PERCENT PASSING
30 INCH	100
24 INCH	65 – 100
18 INCH	45 – 75
12 INCH	25 – 50
8 INCH	10 – 30
6 INCH	0 – 15

RIPRAP GRADATIONS — 30" THICKNESS OF RIPRAP

SIEVE SIZE SQUARE MESH	PERCENT PASSING
36 INCH	100
30 INCH	65 – 100
24 INCH	45 – 75
18 INCH	25 – 50
12 INCH	10 – 25
8 INCH	0 – 10

RIPRAP GRADATIONS — 18" THICKNESS OF RIPRAP

SIEVE SIZE SQUARE MESH	PERCENT PASSING
21 INCH	100
18 INCH	65 – 100
12 INCH	35 – 65
8 INCH	15 – 40
6 INCH	5 – 25
4 INCH	0 – 15

RIPRAP GRADATION TABLES

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

811 Know what's **below.** **Call** before you dig.

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	JP

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

1/14/2021

KHA PROJECT 143263000
DATE Jan-2021
SCALE AS SHOWN
DESIGNED BY JMP
DRAWN BY JMP
CHECKED BY JWD

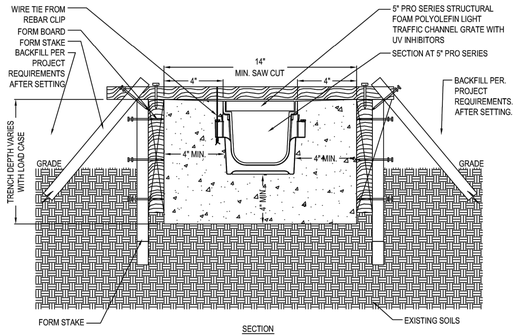
KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY TEXAS
CITY OF KAUFMAN

CONSTRUCTION DETAILS

SHEET NUMBER C-301

LAST SAVED 1/13/2021 7:10 PM
PLOTTED BY PIERRE JANIL 1/13/2021 3:34 PM
XREF NAME K:\MB_Civil\143263000_Kaufman Animal Shelter\CIVIL\CADD\PlanSheets\C-501 PAVING AND GRADING DETAILS.dwg
DWG NAME K:\MB_Civil\143263000_Kaufman Animal Shelter\CIVIL\CADD\PlanSheets\C-501 PAVING AND GRADING DETAILS.dwg
Plotted By Pierre Janil Sheet Set KAUFMAN ANIMAL SHELTER Layout C-301 CONSTRUCTION DETAILS January 13, 2021 03:34:09pm K:\MB_Civil\143263000_Kaufman Animal Shelter\CIVIL\CADD\PlanSheets

NDS, INC.
851 NORTH HARVARD AVE.
LINDSAY, CA 93247
TOLL FREE: 1-800-726-1994
PHONE: (559) 562-9888
FAX: (559) 562-4488
www.ndspro.com



SECTION

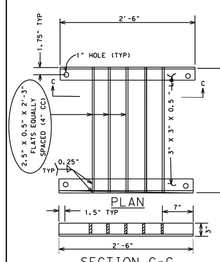
NOTES:
1. CHANNELS TO BE INSTALLED WITH GRATE. GRATE TO BE PROTECTED FROM CONCRETE POUR
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

PRO SERIES CHANNEL DRAIN SYSTEM

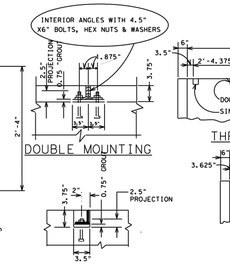
5" PRO SERIES INSTALLATION DETAIL - LOAD CLASS 'A' & 'B' - 4" ENCASEMENT - FORM BOARD SUSPENSION

REVISION DATE 3-5-2015

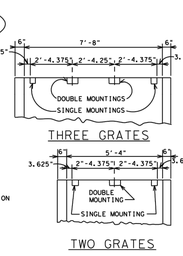
grpinicg.dgn



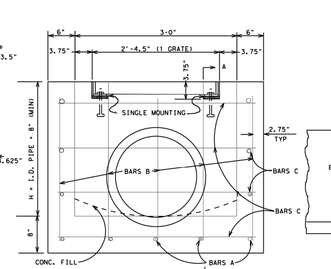
GRATE DETAILS TYPE C
SCALE 1.5" = 1'-0"

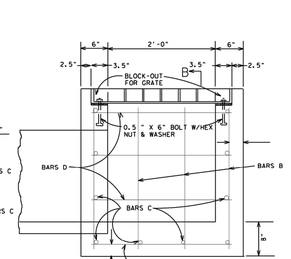


GRATE MOUNTING DETAILS
SCALE: 1.5" = 1'-0"



MULTIPLE GRATE INLET DETAILS
SCALE½" = 1'-0"

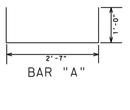


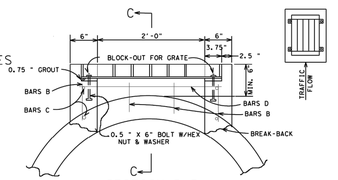


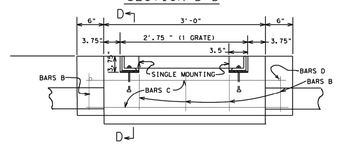
INLET DETAILS TYPE "C"
SCALE : 1.5" = 1'-0"

PIPE SIZE	CONC. C.Y.
15"	0.04
18"	0.05
21"	0.07
24"	0.09
27"	0.11
30"	0.14
33"	0.17
36"	0.20
39"	0.23
42"	0.26
48"	0.34

CONCRETE TO BE DEDUCTED FOR PIPES







INLET DETAILS TYPE "G"
FOR USE WITH PIPES GREATER THAN 30" DIAMETER

BILL OF REINFORCING STEEL FOR TYPE "C" INLETS

	H	BARS A 12" C.C. NO.	LENGTH	SIZE	WT.	BARS B 12" C.C. NO.	LENGTH	SIZE	WT.	BARS C 12" C.C. NO.	LENGTH	SIZE	WT.	BARS D 12" C.C. NO.	LENGTH	SIZE	WT.	REINF. STEEL LB.	CONC. C.Y.	GRATE
1 GRATE	2'-6"	5	4'-7"	4	15	14	2'-8"	4	25	10	3'-8"	4	24	6	2'-8"	4	11	75	0.85	95#
	3'-0"	5	↓	↓	15	14	3'-2"	↓	30	10	3'-8"	↓	24	6	↓	↓	11	80	0.96	
	3'-6"	5			15	14	3'-8"		34	12	3'-8"		29	8			14	92	1.07	
	4'-0"	5			15	14	4'-2"		39	12	3'-8"		29	8			14	97	1.18	
	4'-6"	5			15	14	4'-8"		44	14	3'-8"		34	10			18	111	1.29	
	5'-0"	5			15	14	5'-2"		48	14	3'-8"		34	10			18	115	1.40	
2-GRATE	3'-0"	7			21	18	3'-2"		38	10	6'-0"		40	6			11	110	1.38	190#
	3'-6"	7			21	18	3'-8"		44	12	6'-0"		48	8			14	127	1.53	
	4'-0"	7			21	18	4'-2"		50	12	6'-0"		48	8			14	133	1.68	
	4'-6"	7			21	18	4'-8"		56	14	6'-0"		56	10			18	151	1.83	
	5'-0"	7			21	18	5'-2"		62	14	6'-0"		56	10			18	157	1.98	
	5'-6"	7			21	18	5'-8"		68	16	6'-0"		64	12			21	174	2.13	
3-GRATE	4'-0"	10			31	24	4'-2"		67	12	8'-4"		67	8			14	178	2.22	285#
	4'-6"	10			31	24	4'-8"		75	14	8'-4"		78	10			18	202	2.41	
	5'-0"	10			31	24	5'-2"		83	14	8'-4"		78	10			18	210	2.60	
	5'-6"	10			31	24	5'-8"		91	16	8'-4"		89	12			21	232	2.79	
	6'-0"	10	↓	↓	31	24	6'-2"	↓	99	16	8'-4"	↓	89	12	↓	↓	21	240	2.98	
	6'-6"	10	4'-7"	4	31	24	6'-8"	4	107	16	8'-4"	4	100	14	2'-8"	4	25	263	3.17	

* DOES NOT INCLUDE QUANTITY FOR SHAPING OR DEDUCTION FOR PIPES

STD 7

$$$$dgt@$$$$

GENERAL NOTES

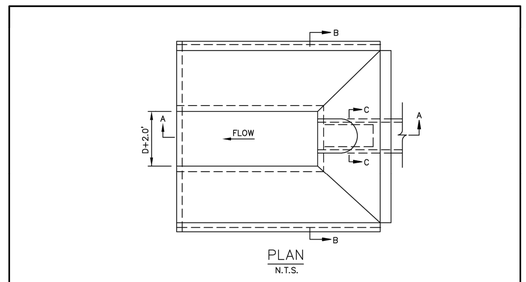
1. EXPOSED EDGES SHALL BE CHAMFERED 0.75".
2. ALL CONCRETE SHALL BE CLASS "A".
3. ALL DIMENSIONS TO BE REINFORCING STEEL ARE TO CENTERS OF BARS.
4. IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, BLOCKOUTS, PIPES, ANCHOR BOLTS OR OTHER REINFORCING STEEL, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
5. IF POSSIBLE HORIZONTAL GRATE INLET SHOULD BE ORIENTED SUCH THAT BOTH TRAFFIC AND DITCH WATER APPROACH PARRALLEL TO BARS ON GRATE. IF THIS IS NOT POSSIBLE ORIENTATION SHOULD FAVOR TRAFFIC FLOW WHERE PIPE SIZES PERMIT.
6. STRUCTURAL STEEL FOR GRATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A-36 OR AISI DESIGNATION m1010-m1020. PAYMENT FOR GRATES SHALL BE MADE UNDER THE BID ITEM "GRATE (TY C)." QUANTITIES FOR CONCRETE & STEEL ARE FOR CONTRACTOR'S INFORMATION ONLY.
7. PAYMENT FOR INLETS SHALL BE MADE UNDER THE BID ITEM "INLETS (COMP) (TY C-1 GRATE), (TY C-2 GRATE), (TY C-3 GRATE) OR (TY G-1 GRATE)."
8. EXISTING BARS EXPOSED BY BREAK -BACK SHALL BE CLEANED AND BENT INTO POSITION TO PROVIDE A TIE TO THE NEW CONCRETE EXTENSION FOR TYPE "G" INLET.

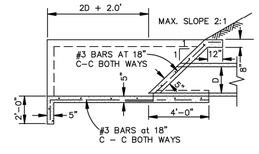
DROP INLET TYPE C & G DETAILS

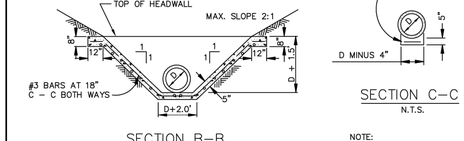
TXDOT DALLAS DISTRICT STANDARD

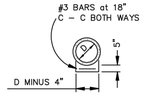
REVISED ON 9/10/08

DIST. COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.
6		
STATE	STATE PROJ. NO.	COUNTY
TEXAS	18	
CONTROL	SECTION	JOB	HIGHWAY NO.



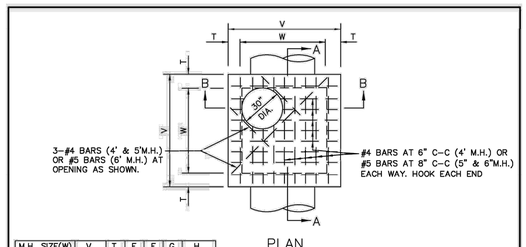






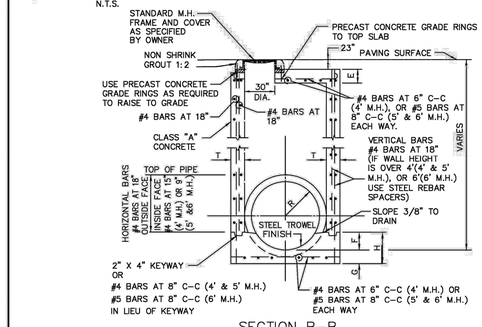
NOTE:
CONCRETE SHALL BE CLASS "A".

CONCRETE APRON SLOPING HEADWALL	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 803.3
	DATE OCT. '04	STANDARD DRAWING NO. 6070



M.H. SIZE(W)	V	T	E	F	G	H
4'	5'-4"	8"	6"	9"	6"	1'-3"
5'	6'-4"	8"	6"	12"	8"	1'-8"
6'	7'-6"	9"	9"	16"	10"	2'-2"

TABLE OF DIMENSIONS
N.T.S.



STORM WATER MANHOLE 4', 5', OR 6' SQUARE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.1.4.1*
	DATE OCT. '04	STANDARD DRAWING NO. 6010A

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION

811 Know what's **below.** **Call** before you dig.

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

1/14/2021

KHA PROJECT 143263000
DATE Jan-2021
SCALE AS SHOWN
DESIGNED BY JMP
DRAWN BY JMP
CHECKED BY JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN
TEXAS

CONSTRUCTION DETAILS

SHEET NUMBER
C-302

LAST SAVED 1/13/2021 7:15 PM
PLOTTED BY PIERRE JAMIL 1/13/2021 3:34 PM
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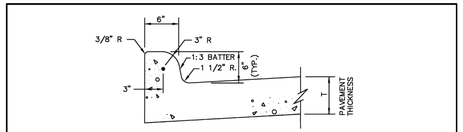
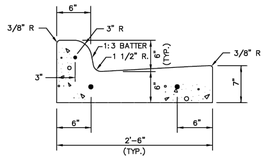
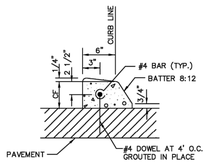
DWG NAME K:\MIB_Civil\143263000 Kaufman Animal Shelter\CIVIL\CADD\PlanSheets\C-501 PAVING AND GRADING DETAILS.dwg
PLOTTED BY Pierre Jamil Sheet Set: KAUFMAN ANIMAL SHELTER Layout: C-303 PAVING GRADING AND DRAINAGE DETAILS January 13, 2021 03:34:14pm K:\MIB_Civil\143263000 Kaufman Animal Shelter\CIVIL\CADD\PlanSheets\C-501 PAVING AND GRADING DETAILS.dwg



INTEGRAL CURB & GUTTER
N.T.S.



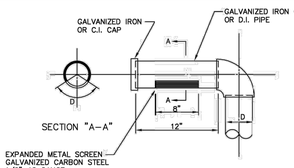
SEPARATE CURB & GUTTER
N.T.S.



DOWELED CURB
N.T.S.

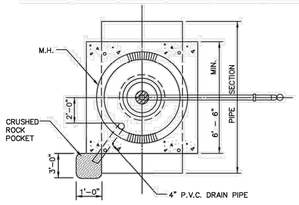
NOTES:
1. REINFORCEMENT SHALL BE NO. 4 BARS, UNLESS OTHERWISE SPECIFIED.
2. CONCRETE SHALL BE CLASS "C" OR "PC".
3. "CT" IS 6" UNLESS OTHERWISE SPECIFIED.
4. ALL CURBS ARE CONSTRUCTED OF PORTLAND CEMENT CONCRETE UNLESS OTHERWISE SHOWN.
5. GRADE SHALL BE MEASURED AT BACK OF CURB.

CONCRETE CURB & GUTTER	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 305.1
INTEGRAL, SEPARATE, & DOWELED		DATE OCT. '04 / STANDARD DRAWING NO. 2120



AIR VENT
N.T.S.

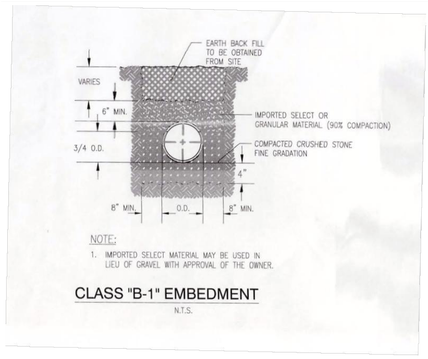
AIR VALVE	GATE VALVE	FLG. OUTLET	MIN. FITTING HEIGHT	VENT PIPE D	M.H. DIA.
2"	2"	8"	26"	2"	5'
3"	3"	18"	31"	3"	5'
4"	4"	18"	38"	4"	5'
6"	6"	18"	46"	6"	5'
8"	8"	18"	53"	8"	6'
10"	10"	20"	62"	10"	6'
12"	12"	24"	72"	12"	6'



PLAN VIEW
N.T.S.

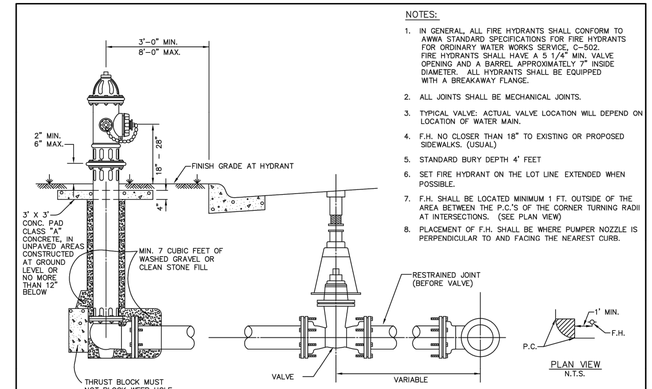
AIR RELEASE VALVE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.6.6*
TYPE "2"		DATE OCT. '04 / STANDARD DRAWING NO. 4100B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



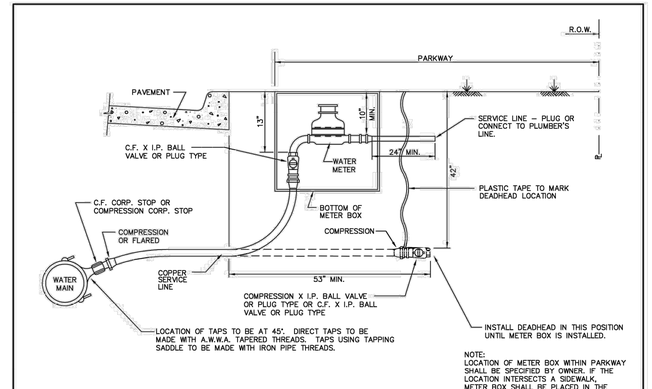
NOTE:
1. IMPORTED SELECT MATERIAL MAY BE USED IN LIEU OF GRAVEL WITH APPROVAL OF THE OWNER.

CLASS "B-1" EMBEDMENT
N.T.S.



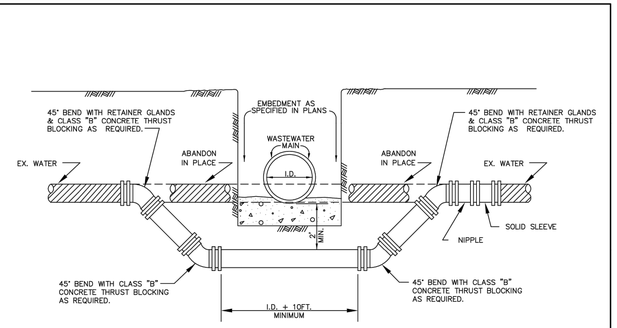
NOTES:
1. IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE, C-502. FIRE HYDRANTS SHALL HAVE A 5 1/4" MIN. VALVE OPENING AND A BARREL APPROXIMATELY 7' INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE.
2. ALL JOINTS SHALL BE MECHANICAL JOINTS.
3. TYPICAL VALVE: ACTUAL VALVE LOCATION WILL DEPEND ON LOCATION OF WATER MAIN.
4. F.H. NO CLOSER THAN 18" TO EXISTING OR PROPOSED SIDEWALKS. (USUAL)
5. STANDARD BURY DEPTH 4' FEET
6. SET FIRE HYDRANT ON THE LOT LINE EXTENDED WHEN POSSIBLE.
7. F.H. SHALL BE LOCATED MINIMUM 1 FT. OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADII AT INTERSECTIONS. (SEE PLAN VIEW)
8. PLACEMENT OF F.H. SHALL BE WHERE PUMPER NOZZLE IS PERPENDICULAR TO AND FACING THE NEAREST CURB.

FIRE HYDRANT INSTALLATION	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.3
		DATE OCT. '04 / STANDARD DRAWING NO. 4120



NOTE:
LOCATION OF METER BOX WITHIN PARKWAY SHALL BE SPECIFIED BY OWNER. IF THE LOCATION INTERSECTS A SIDEWALK, METER BOX SHALL BE PLACED IN THE CENTER OF SIDEWALK.

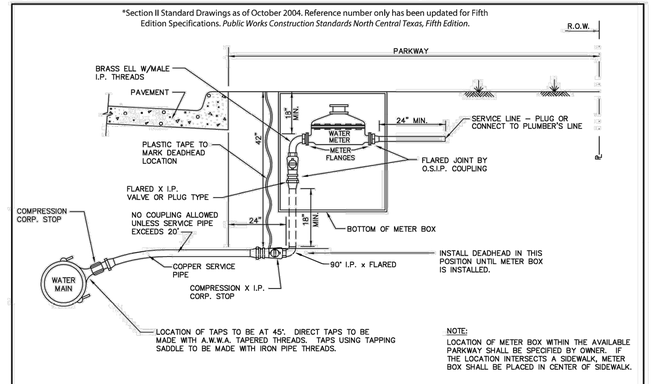
WATER SERVICE INSTALLATION 3/4" OR 1" LINE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.10.3*
		DATE OCT. '04 / STANDARD DRAWING NO. 4130



WATER MAIN LOWERING BELOW WASTEWATER MAIN	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 506.6
		DATE OCT. '04 / STANDARD DRAWING NO. 4200

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

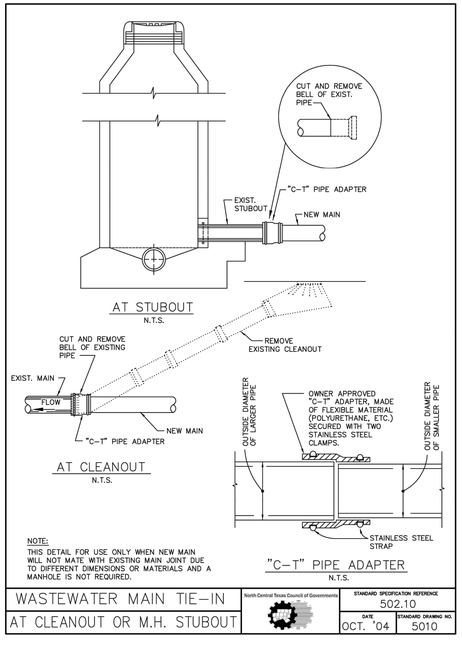
*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



NOTE:
LOCATION OF METER BOX WITHIN THE AVAILABLE PARKWAY SHALL BE SPECIFIED BY OWNER. IF THE LOCATION INTERSECTS A SIDEWALK, METER BOX SHALL BE PLACED IN CENTER OF SIDEWALK.

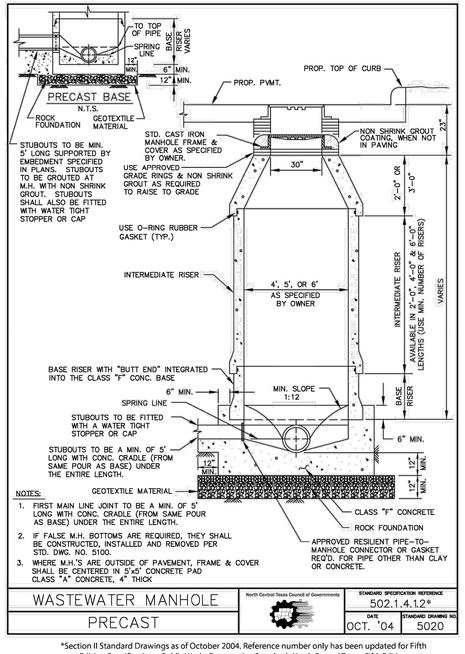
WATER SERVICE INSTALLATION 1 1/2" OR 2" LINE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.10.3*
		DATE OCT. '04 / STANDARD DRAWING NO. 4140

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



NOTE:
THIS DETAIL FOR USE ONLY WHEN NEW MAIN WILL NOT MATE WITH EXISTING MAIN JOINT DUE TO DIFFERENT DIMENSIONS OR MATERIALS AND A MANHOLE IS NOT REQUIRED.

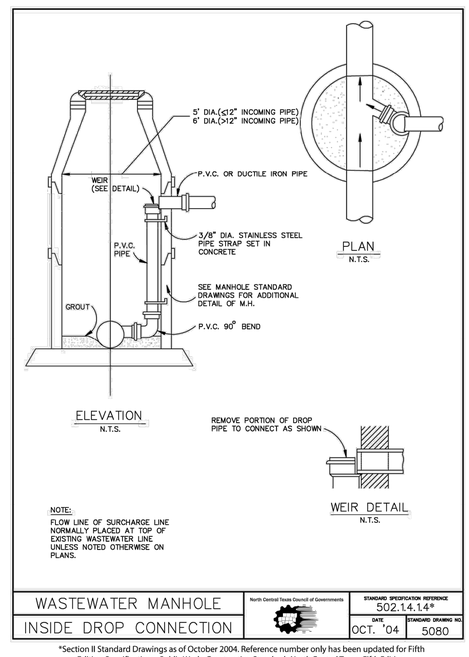
WASTEWATER MAIN TIE-IN AT CLEANOUT OR M.H. STUBOUT	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.10
		DATE OCT. '04 / STANDARD DRAWING NO. 5010



NOTES:
1. FIRST MAIN LINE JOINT TO BE A MIN. OF 5' LONG WITH CONC. CRADLE (FROM SAME POUR AS BASE) UNDER THE ENTIRE LENGTH.
2. IF FALSE M.H. BOTTOMS ARE REQUIRED, THEY SHALL BE CONSTRUCTED, INSTALLED AND REMOVED PER STD. DWG. NO. 5100.
3. WHERE M.H.'S ARE OUTSIDE OF PAVEMENT, FRAME & COVER SHALL BE CENTERED IN 5'x5' CONCRETE PAD CLASS "A" CONCRETE, 4" THICK

WASTEWATER MANHOLE PRECAST	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.1.4.12*
		DATE OCT. '04 / STANDARD DRAWING NO. 5020

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



NOTE:
FLOW LINE OF SURCHARGE LINE NORMALLY PLACED AT TOP OF EXISTING WASTEWATER LINE UNLESS NOTED OTHERWISE ON PLANS.

WASTEWATER MANHOLE INSIDE DROP CONNECTION	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.1.4.14*
		DATE OCT. '04 / STANDARD DRAWING NO. 5080

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

No.	REVISIONS	DATE	BY
1	ADDENDUM 1	01/13/21	J.P.

Kimley»Horn
13455 NOEL ROAD, TWO GALLERIA OFFICE TOWER, SUITE 700, DALLAS, TX 75240
PHONE: 972-770-1300 FAX: 972-239-3820
WWW.KIMLEY-HORN.COM TX F-928

1/14/2021

KHA PROJECT	143263000
DATE	Jan-2021
SCALE	AS SHOWN
DESIGNED BY	JMP
DRAWN BY	JMP
CHECKED BY	JWD

KAUFMAN ANIMAL CENTER
PREPARED FOR
KAUFMAN COUNTY
CITY OF KAUFMAN
TEXAS

CONSTRUCTION DETAILS

SHEET NUMBER
C-303

LAST SAVED 1/5/2021 1:07 PM
PLOTTED BY PIERRE JAMIL 1/7/2021 3:34 PM
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