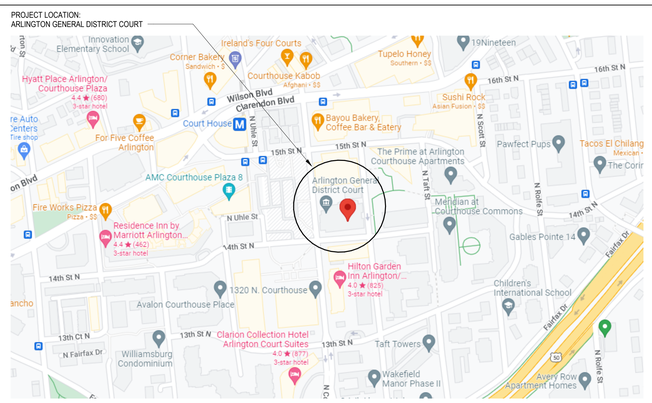
ARLINGTON COUNTY 4TH FLOOR COURT RENOVATION

PERMIT SUBMISSION

08/16/2023

VICINITY MAP

NOTE: MAP IS NOT TO SCALE

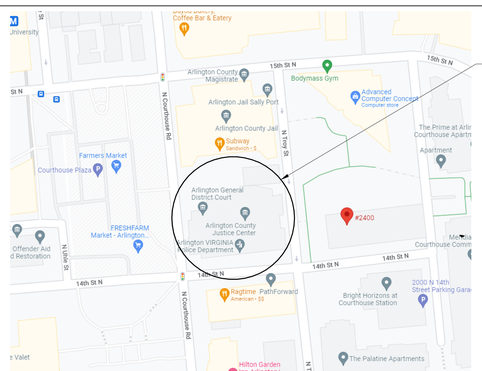


MAP SOURCE FROM GOOGLE MAPS @ https://www.google.com/maps

TRUE NORTH

LOCATION MAP

NOTE: MAP IS NOT TO SCALE



MAP SOURCE FROM GOOGLE MAPS @ https://www.google.com/maps

PROJECT TEAM

ARCHITECT
MTFA ARCHITECTURE
3200 LANGSTON BLVD
ARLINGTON, VA 22207

MEAGAN JANCY, PROJECT PRINCIPAL *703.524.6616 X221*
ELIZA ENGLE, PROJECT MANAGER *703.524.6616 X254*

MEP ENGINEER
AMERESCO
12001 SUNRISE VALLEY DRIVE, SUITE 205
RESTON, VA 20191

JOHN CHANEY, PE *703.214.0557*
MANAGER-ENGINEERING

STRUCTURAL ENGINEER
LINTON ENGINEERING, LLC
46090 LAKE CENTER PLAZA, SUITE 309
POTOMAC FALLS, VA 20165

ROBERT SCHOTTLER, PE *571.323.0320*
SENIOR STRUCTURAL ENGINEER

TECHNOLOGY/AV/SECURITY
CODETTA
7906 RICHFIELD ROAD
SPRINGFIELD, VA 22153

BILL J. HITTLE, RCDD *703.672.6730*

COST ESTIMATOR
DOWNEY & SCOTT, LLC
6799 KENNEDY ROAD, UNIT F
WARRENTON, VA 20187

JOE ADAMS, CVS, CPE. *540.347.5001*
VICE PRESIDENT OF
PRE-CONSTRUCTION SERVICES

SCOPE OF WORK

THE ARLINGTON COUNTY COURTHOUSE IS LOCATED AT THE INTERSECTION OF NORTH COURTHOUSE ROAD AND 14TH STREET NORTH IN ARLINGTON, VIRGINIA AND SHARES THE BLOCK WITH THE ARLINGTON COUNTY CORRECTIONS BUILDING. THE SCOPE OF WORK FOR THIS PROJECT IS TO RENOVATE THE FOURTH FLOOR WHICH INCLUDES THE JUVENILE & DOMESTIC RELATIONS COURTS, INTAKE OFFICES AND CLERK OF THE COURTS OFFICE. THE INTENTION OF THIS PROJECT IS TO PROVIDE LARGER AND MORE CONNECTED COURTROOMS, PROVIDE A MINIMUM OF TWO WAITING AREAS, PROVIDE MORE MEETING ROOMS FOR THE COURTS AND INTAKE OFFICE AND CONSOLIDATE THE CLERK OF COURT SPACE SO IT IS MORE EFFICIENT. THE MAIN ELEVATOR LOBBY, CORE STAIRS AND ELEVATORS, SIDE LOBBIES AND PUBLIC RESTROOMS WILL BE MAINLY EXISTING TO REMAIN BUT WILL HAVE NEW LED FIXTURES AND ACOUSTICAL PANEL CEILINGS. THE MECHANICAL UNIT, THAT SERVES THE THIRD AND FOURTH FLOORS OF THE COURTHOUSE, IS ALSO INCLUDED TO BE REPLACED AS PART OF THIS SCOPE OF WORK ALONG WITH ALL ASSOCIATED VAV BOXES.

MATERIAL SYMBOLS

CONCRETE	STEEL	CUT BLOCKING / SHIM
BATT INSULATION	BRICK	CONCRETE MASONRY
RIGID INSULATION	GYPSUM	ENGINEERED FILL
WOOD BLOCKING	FINISH WOOD / HARD WOOD	SEALANT / CAULKING

DRAWING INDEX

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ARCHITECTURAL	
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A120	DEMOLITION REFLECTED CEILING PLAN - LEVEL 3
A121	DEMOLITION REFLECTED CEILING PLAN
A201	NEW WORK FLOOR PLAN
A220	REFLECTED CEILING PLAN - LEVEL 3
A221	REFLECTED CEILING PLAN
A501	STAIRS, PLATFORM ELEVATOR, RAMPS, AND DETAILS
A601	ENLARGED PLANS & INTERIOR ELEVATIONS
A602	ENLARGED COURTROOM PLANS, ELEVATIONS & DETAILS
A711	DOOR AND PARTITION SCHEDULES, WINDOW TYPES, & DETAILS
A712	DOOR HARDWARE
A722	FINISH PLANS
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A732	MATERIAL BOARD
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M102	FLOOR PLAN, LEVEL 3, HVAC PIPING DEMOLITION
M103	FLOOR PLAN, LEVEL 4, HVAC DEMOLITION
M104	FLOOR PLAN, LEVEL 4, HVAC PIPING DEMOLITION
M105	FLOOR PLAN, LEVEL 3, HVAC NEW WORK
M106	FLOOR PLAN, LEVEL 4, HVAC NEW WORK
M501	3RD FLOOR – DEMOLITION DETAILS
M502	3RD FLOOR – NEW WORK DETAILS
M701	MECHANICAL SCHEDULES
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M703	MECHANICAL SCHEDULES
PLUMBING	
P001	GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
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P102	FLOOR PLAN – LEVEL 4 – PLUMBING DEMOLITION
P103	FLOOR PLAN – LEVEL 3 – PLUMBING - NEW WORK
P104	FLOOR PLAN – LEVEL 4 – PLUMBING - NEW WORK
P701	SCHEDULES

SHEET #	SHEET NAME
ELECTRICAL	
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E002	GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
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E102	4TH FLOOR – POWER – DEMOLITION
E103	4TH FLOOR – LIGHTING – DEMOLITION
E104	4TH FLOOR – FIRE ALARM – DEMOLITION
E105	3RD FLOOR – POWER – NEW WORK
E106	4TH FLOOR – POWER – NEW WORK
E107	4TH FLOOR – LIGHTING – NEW WORK
E108	4TH FLOOR – FIRE ALARM – NEW WORK
E601	PARTIAL RISER DIAGRAM
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E702	ELECTRICAL PANEL SCHEDULES
E703	ELECTRICAL PANEL SCHEDULES
E704	POWER DISCONNECT SCHEDULE
E705	LIGHTING FIXTURE SCHEDULE
E706	ELECTRICAL DETAILS
E707	LIGHTING COMCHECK
FIRE PROTECTION	
FP001	GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
FP101	FLOOR PLAN – LEVEL 4 – FIRE PROTECTION – NEW WORK
FP102	FLOOR PLAN – LEVEL 4 – FIRE PROTECTION DEMOLITION
AV/TELECOM/SECURITY	
AV001	AUDIOVISUAL COVER SHEET
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AV201	AUDIOVISUAL ONE LINE DIAGRAMS
AV202	AUDIOVISUAL ONE LINE DIAGRAMS
AV301	AUDIOVISUAL DETAILS
SE001	SECURITY COVER SHEET
SE101	SECURITY PLAN
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T001	TELECOMMUNICATIONS COVER SHEET
T101	TELECOMMUNICATIONS PLAN
T201	TELECOMMUNICATIONS DETAILS
T202	TELECOMMUNICATIONS DETAILS

ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
ACC	ACCESS
ACOUS	ACOUSTICAL
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANC	ANCHORS
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECT
AUTO	AUTOMATIC
AVG	AVERAGE
B	BATHROOM
BD	BEAD
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BY OWNER
BOT	BOTTOM
BRD	BOARD
BRKT	BRACKET
BSL	BUILDING SETBACK LINE
BSMT	BASEMENT
BU	BUILT UP
CAB	CABINET
CEM	CEMENT
CF	CUBIC FOOT (FEET)
CI	CAST IRON
CJ	CONTROL JOINT
CL, CLO	CLOSET
CLG	CEILING
CLL	CONTRACT LIMIT LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CS	COURSES
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTER SUNK
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION (DIVIDED)
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DW	DISHWASHER
DWGS	DRAWINGS
DWR	DRAWER
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
ENCL	ENCLOSURE
ENT	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EXST	EXISTING
FD	FLOOR DRAIN
FE(C)	FIRE EXTINGUISHER (CABINET)
FF	FINISHED FLOOR
FF&E	FIXTURE FURNITURE & EQUIPMENT
FG	FINISH GRADE
FIN	FINISH
FL	FLOOR
FLEX	FLEXIBLE
FLSG	FLASHING
FLUOR	FLUORESCENT
FP	FILLER PANEL
FR	FRAME
FRPF	FIRE PROOFING
FRT	FIRE RETARDANT TREATED
FT	FOOT (FEET)
FTG	FOOTING
FUR	FURRING
FVC	FIRE VALVE CABINET
GA	GAUGE
GALV	GALVANIZED
GB	GYPSUM BOARD
GC	GENERAL CONTRACTOR
GL	GLASS
GR	GRADE
GWB	GYPSUM WALLBOARD
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HVAC	HEATING, VENT, AIR CONDITIONING
ID	INSIDE DIAMETER
IGU	INSULATED GLASS UNIT
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT
KD	KNOCK DOWN
KIT	KITCHEN
KO	KNOCK OUT
LAM	LAMINATED
LAV	LAVATORY
LIN	LINEAR
LP	LOWPOINT
LT	LIGHT
LW	LIGHTWEIGHT
MACH	MACHINE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MET, MTL	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MO	MASONRY OPENING
MOD	MODIFIED
MTD	MOUNTED
N, NO	NORTH
NIC	NOT IN CONTRACT
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFF	OFFICE
OH	OVERHEAD
OP HD	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PTD	PAINTED
QT	QUARRY TILE
QTY	QUANTITY
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REF'G	REFRIGERATOR
REINF	REINFORCED (ING)
REQ	REQUIRED
RES	RESILIENT
REV	REVISE (REVISION)
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SC	SOLID CORE
SCHED	SCHEDULE
SCHWD	SOLID CORE WOOD DOOR
SECT	SECTION
SF	SQUARE FOOT (FEET)
SFPS	STRETCHED FABRIC PNL. SYS
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SL	SLIDING
SQ	SQUARE
SS, S.STL.	STAINLESS STEEL
SSK	SERVICE SINK
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SW	SWITCH
SYS	SYSTEM
T&G	TONGUE & GROOVE
T.O.STL	TOP OF STEEL
TB	TACK BOARD
TBR	TO BE REMOVED
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICK
THR	THRESHOLD
TLT	TOILET
TO	TOP OF
TOS	TOP OF SLAB
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UNF	UNFINISHED
UNO	UNLESS NOTIFIED (NOTED) OTHERWISE
UR	URINAL
UTL	UTILITY
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITH OUT
WD	WOOD
WH	WATER HEATER
WP	WATERPROOFING
WR	WATER RESISTANT
WT	WEIGHT

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCY
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

DATE:	ISSUE:	#
08/29/22	SCHEMATIC DESIGN	
01/27/2023	DESIGN DEVELOPMENT	
07/14/2023	FINAL SUBMISSION	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1

DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED

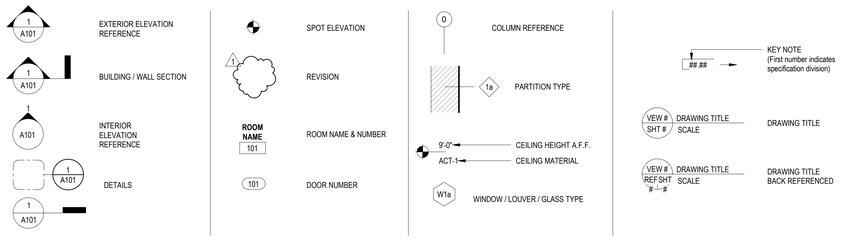
SHEET TITLE: **COVER SHEET**

SHEET # **CS01**

GENERAL NOTES:

1. WORK MUST BE PERFORMED IN ACCORDANCE WITH RULES AND REGULATIONS OF GOVERNMENT AGENCIES HAVING JURISDICTION AND MUST CONFORM TO ALL AMERICANS WITH DISABILITIES ACT (ADA), NFPA, CITY, COUNTY, STATE, AND FEDERAL CONSTRUCTION, SAFETY, AND SANITARY LAW, CODES, STATUTES, AND ORDINANCES.
2. ALL CONTRACTORS MUST VISIT THE SITE AND EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THE WORK.
3. CONSTRUCTION OF WORK INDICATED ON THE DRAWINGS AS (N.I.C.) IS NOT IN CONTRACT.
4. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT ARCHITECT BEFORE PROCEEDING WITH THE WORK. TYPICAL DETAILS APPLY AT ALL SIMILAR CONDITIONS WHETHER CROSS REFERENCED OR NOT.
5. REQUIRED WORK OF A TRADE MAY BE AFFECTED BY INFORMATION ON OTHER TRADE SHEETS. ALL BIDS ARE BASED ON EXAMINATION OF A FULL SET OF DOCUMENTS. THE CONTRACTOR MUST COORDINATE THE WORK OF ALL TRADES AND SUBCONTRACTORS.
6. DIMENSION UNITS ARE IMPERIAL UNITS UNLESS NOTED OTHERWISE.
7. DIMENSIONS SHOWN ARE TO THE FINISHED FACE, CENTER-LINE OF DOOR OPENING AND COLUMN GRID LINES UNLESS NOTED OTHERWISE.
8. "VIF" OR ± INDICATE DIMENSIONS MUST BE FIELD VERIFIED. WHEN ACTUAL FIELD DIMENSIONS VARY IN SUCH A WAY THAT IT AFFECTS ELEMENTS WITHIN THE STRING, NOTIFY ARCHITECT IMMEDIATELY.
9. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS OR EXACT LOCATIONS ARE REQUIRED AND NOT INCLUDED ON THE DRAWINGS, REQUEST INFORMATION FROM ARCHITECT.
10. THE INFORMATION CONTAINED HEREIN MAY REQUIRE ADJUSTMENT OR MODIFICATION TO CONFORM TO EXISTING CONDITIONS. IN CASES WHERE CHANGES IN DETAILS ARE NECESSARY, THESE DRAWINGS ARE USED TO SHOW ONLY THE DESIGN INTENT.
11. INSTALL MATERIALS, EQUIPMENT, HARDWARE, AND OTHER ELEMENTS IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. COORDINATE LOCATION OF CONCEALED SUPPORTS OR BLOCKING TO ENSURE PROPER INSTALLATION PRIOR TO CLOSING OF WALLS.
12. ALL DAMAGE TO EXISTING CONSTRUCTION AND PROPERTY BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH NEW MATERIALS TO MATCH EXISTING.
13. ELECTROLYTIC PROTECTION SHALL BE PROVIDED BETWEEN DISSIMILAR METALS WHENEVER THE TWO ARE IN CONTACT.
14. A FULL AND COMPLETE JOB IS REQUIRED UNDER THIS CONTRACT. MATERIAL AND LABOR WHICH ARE RELATED TO THE WORK BUT NOT SPECIFICALLY INDICATED, AND WHICH ARE REQUIRED FOR A PROFESSIONALLY FINISHED JOB, MUST BE A PART OF THE WORK.
15. VERIFICATION & ADJUSTMENT OF LAYOUTS IS PART OF THE SCOPE OF WORK. PROVIDE CONFIRMATION OF ALL DIMENSIONS AND LAYOUT WITH THE ARCHITECT PRIOR TO INSTALLATION OF SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR ON-SITE VERIFICATION OF ALL, FIELD CONDITIONS, QUANTITIES, AND DIMENSIONS PRIOR TO CONSTRUCTION.
16. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF ALL APPLICABLE PERMITS EXCEPT THE BUIDING PERMIT.
17. THE GENERAL NOTES AND TYPICAL DETAILS APPLY THROUGHOUT THE JOB UNLESS OTHERWISE NOTED OR SHOWN.
18. NO MATERIAL CUTTING OR FABRICATION OF ANY WORK WILL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED WRITTEN AND/OR STAMPED APPROVAL OF RELATED SHOP DRAWINGS AND MANUFACTURERS' SPECIFICATION DATA.
19. THE CONTRACTOR IS TO PROVIDE CLOSE OUT DOCUMENTATION UPON COMPLETION OF THE PROJECT. COORDINATE FINAL REQUIREMENTS WITH OWNER. GC TO PROVIDE ELECTRONIC AND HARD COPIES OF AS-BUILTS.
20. THE CONTRACTOR MUST MAINTAIN EMERGENCY EGRESS ACCESS AND ENSURE SECURITY OF THE SPACE AT ALL TIMES.
21. COMPLETE SPECIFICATIONS ARE TO BE A PART OF THIS CONSTRUCTION DOCUMENT SUBMITTAL.
22. EXISTING FIRE SEPARATION WALLS AND THEIR RATINGS MUST BE MAINTAINED BETWEEN THE CONSTRUCTION AREA AND OCCUPIED AREAS. PROVIDE TEMPORARY FIRE BARRIERS AS REQUIRED.

DRAWING SYMBOLS:



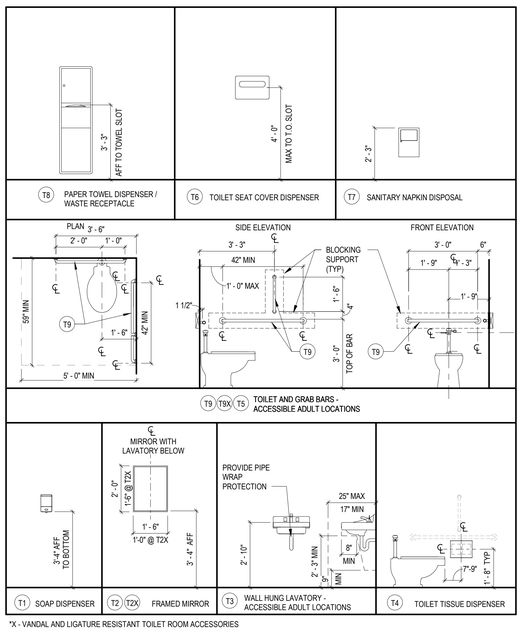
FIRESTOPPING CODE COMPLIANCE:

For electrical poke through devices: The devices specified meet cULus Listed, Metallic Outlet Box File Number E2961, Guide QCIT. cULus Listed, Nonmetallic Outlet Boxes & Fittings Classified for Fire Resistance: File R8209, Guide CEYY.
Poke-thru devices and abandonment fittings are for use with 1-, 1 1/2-, or 2-hour rated unprotected reinforced concrete floor and 1-, 1 1/2- or 2-hour rated floors employing unprotected steel floor units and concrete topping (D900-Series Designs), or concrete floors with suspended ceilings. (Fire resistive designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke-thru fittings.)
The assembled Poke-Thru stem and service fitting or the abandonment fittings will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for the specific rating) are within the specified limits and the fittings are installed as specified:

1. **Spacing** – Minimum of 2' (610mm) OC and not more than one unit per 65 square feet (6 square meters) of floor area in each span.
2. **Concrete** – Minimum thickness of structural concrete topping of 2 1/4" (57mm) over metal deck or a minimum 3" thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
3. **Installation** – Mounted in a 6" (152mm) diameter core drilled hole in concrete per installation instructions accompanying the fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below.

NOTE: The material that is used in Wiremold® poke-thru devices is not listed under the directory for Fire Stopping Material because the poke- thru device is UL Classified as "Outlet Boxes and Fittings Classified For Fire Resistance (CEYY)". The pass/fail criteria comes from UL263. The pass criteria is that the poke-thru unit cannot exceed 325° F. above ambient before the concrete slab (or deck) reaches this same temperature. Some poke-thru devices are tested for 2 hours while others are tested for 4 hours. The intumescent material has never been tested as a fire-stopping material as a stand-alone device. This material is designed to work as a unit with the entire poke-thru device.

PLUMBING FIXTURE MOUNTING HEIGHT:



*X - VANDAL AND LIGATURE RESISTANT TOILET ROOM ACCESSORIES

PROVIDE FIRE-RESISTANCE RATED PENETRATION FIRESTOP SYSTEM AT RATED WALLS AND FLOORS TO MEET VCC 714.5 PER FIRESTOP SYSTEM SCHEDULE BELOW

FIRESTOP SYSTEM SCHEDULE
FIRESTOP SYSTEMS ARE LISTED USING THE ALPHA-NUMERIC IDENTIFICATION SYSTEM PUBLISHED IN UL'S FIRE RESISTANCE DIRECTORY UNDER PRODUCT CATEGORY XHEZ

TYPE OF PENETRANT	CONSTRUCTION					
	FLOOR PENETRATION SYSTEMS (FIRST ALPHA COMPONENT = C OR F)			WALL PENETRATION SYSTEMS (FIRST ALPHA COMPONENT - C OR W)		
	CONCRETE FLOORS WITH A MINIMUM THICKNESS LESS THAN OR EQUAL TO 5 INCHES (125 MM)	CONCRETE FLOORS WITH A MINIMUM THICKNESS GREATER THAN 5 INCHES (125 MM)	FRAMED FLOORS	CONCRETE FLOORS WITH A MINIMUM THICKNESS LESS THAN OR EQUAL TO 8 INCHES (125 MM)	CONCRETE FLOORS WITH A MINIMUM THICKNESS GREATER THAN 8 INCHES (125 MM)	FRAMED FLOORS
NO PENETRATING ITEMS	C-AJ-0001-0999 OR F-A-001-0999	C-BJ-0001-099		C-AJ-0001-0999 C-BJ-0001-099 OR W-K-1001-0999		LL W-K-10W-L-001-1999
METALLIC PIPE, CONDUIT, OR TUBING	C-AJ-1001-1999 OR F-A-1001-1999	C-BJ-0001-1999 C-BK-1001-1999 OR F-B-1001-1999	F-C-1001-1999	C-AJ-1001-1999 C-BJ-1001-1999 OR W-J-1001-1999	C-BK-1001-1999 OR W-K-1001-1999	W-L-1001-1999
NONMETALLIC PIPE, CONDUIT, OR TUBING	C-AJ-2001-2999 OR F-A-2001-2999	C-BJ-2001-2999 OR F-B-2001-2999	F-C-2001-2999	C-AJ-2001-2999 C-BJ-2001-2999 OR W-J-2001-2999	C-BK-2001-2999	W-L-2001-2999
ELECTRICAL CABLES	C-AJ-3001-3999 OR F-A-3001-3999	C-BJ-3001-3999 OR F-B-3001-3999	F-C-3001-3999	C-AJ-3001-3999 C-BJ-3001-3999 OR W-J-3001-3999	C-BK-3001-3999	W-L-3001-3999
CABLE TRAYS WITH ELECTRICAL CABLES	C-AJ-4001-4999 OR F-A-4001-4999	C-BJ-4001-4999		C-AJ-3001-3999 C-BJ-4001-4999 OR W-J-4001-4999	W-K-4001-4999	W-L-4001-4999
INSULATED PIPES	C-AJ-5001-5999 OR F-A-5001-5999	C-BJ-5001-5999	F-C-5001-5999	C-AJ-5001-5999 OR W-J-5002-5999	C-BK-5001-5999	W-L-5001-5999
MISCELLANEOUS ELECTRICAL PENETRANTS	C-AJ-6001-6999 OR F-A-6001-6999			C-AJ-6001-6999		W-L-6001-6999
MISCELLANEOUS MECHANICAL PENETRANTS	C-AJ-7001-7999		F-C-7001-7999	C-AJ-7001-7999 OR W-J-7001-7999		W-L-7001-7999
GROUPINGS OF PENETRATIONS	C-AJ-8001-8999 OR F-A-8001-8999	C-BJ-8001-8999	F-C-8001-8999	C-AJ-8001-8999 C-BJ-8001-8999 OR W-J-8001-8999		W-L-8001-8999

For each location where a fire-resistance-rated floor or wall assembly is penetrated, provided a new UL-classified through-penetration Firestop system selected from the applicable UL number range listed above that complies with section 078413 - THROUGH PENETRATION FIRESTOP SYSTEM and is suitable for the penetration conditions indicated for the project

CODE ANAYSIS:

MEANS OF EGRESS

NUMBER OF EXITS: 2

EGRESS CAPACITY (EXISTING EGRESS TO REMAIN):
EGRESS STAIRS: .3" PER OCCUPANT
EGRESS COMPONENTS: .2" PER OCCUPANT

MAXIMUM TRAVEL DISTANCE TO EXIT: 250'-0"

MINIMUM EXIT SEPARATION DISTANCE: 1/4" DIAGONAL OF BUILDING OR SPACE

MAXIMUM COMMON PATH OF TRAVEL:
BUSINESS USE: 100'-0" ASSEMBLY USE A3: 20'-0"

MINIMUM CORRIDOR WIDTH: 44"

MAXIMUM DEAD END CORRIDOR: 20'

MINIMUM STAIR WIDTH: 48"

ACCESSIBILITY

PER VEBC 404.3, THE PUBLIC TOILET FACILITIES HAVE BEEN RENOVATED TO BE ACCESSIBLE. THE EXISTING DRINKING FOUNTAINS ARE ACCESSIBLE. ALL NEW CONSTRUCTION WILL MEET ICC A117.1-2009 PER VCC 1102.1.

FIRE RESISTANCE RATINGS

EXISTING BUILDING CONSTRUCTION: 2A BOCA CODE = IB (VCC Table 601)

PRIMARY STRUCTURE	2 HR
BEARING WALLS	
EXTERIOR	2 HR
INTERIOR	2 HR
NONBEARING WALLS	
EXTERIOR	0 HR
INTERIOR	0 HR
FLOOR CONSTRUCTION	2 HR (PROVIDE 2 HR RATED FIRE STOPPING AT NEW SLAB PENETRATIONS)
ROOF CONSTRUCTION	1 HR
SHAFT ENCLOSURES	2HR
CORRIDORS	2HR

INTERIOR FINISHES

REQUIRED INTERIOR FINISH - TABLE 803.13 (USE A-3 & B)

ROOMS & ENCLOSED SPACES - CLASS C

INTERIOR EXIT STAIRWAYS, RAMPS, & EXIT PASSAGEWAYS - CLASS B

CORRIDORS & ENCLOSURES FOR EXIT ACCESS STAIRWAYS & RAMPS - CLASS B

PROJECT DATA

PROJECT NAME: ARLINGTON COUNTY 4TH FLOOR COURTS RENOVATION

OWNER: ARLINGTON COUNTY

PROJECT ADDRESS: 1425 NORTH COURTHOUSE ROAD 4TH FLOOR ARLINGTON, VA

TOTAL GROSS AREA 3RD FLOOR NEW WORK:	86 SF
TOTAL GROSS AREA 3RD FLOOR EXISITNG:	16,804 SF
TOTAL GROSS AREA 4TH FLOOR NEW WORK:	15,864 SF
TOTAL GROSS AREA 4TH FLOOR EXISITNG:	16,804 SF

APPLICABLE CODES

2018 VIRGINIA UNIFORM STATEWIDE BUILDING CODE
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018 INTERNATIONAL EXISTING BUILDING CODE
2018 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE
ICC A117.1-2009 ACCESSIBILITY CODE

ALTERATIONS LEVEL 2 LESS THAN 50% OF THE BUILDING AREA TO BE RENOVATED

ZONING INFORMATION- NO CHANGES

ZONE: P-S PUBLIC SERVICE DISTRICT

EXISTING GROSS FLOOR AREAS: 309,179 SF

EXISTING BUILDING HEIGHT: 194'-0"

OCCUPANCY USE

REFER TO EGRESS PLANS ON THIS SHEET.
IN ACCORDANCE WITH IBC CHAPTER 3 AND NFPA 101 CHAPTER 6.
1. A-3 ASSEMBLY- COURTROOMS, CONFERENCE ROOMS
2. B BUSINESS- OFFICES, SMALL CONFERENCE ROOMS
3. S STORAGE

OCCUPANCY CLASSIFICATION	OCCUPANCY USE GROUP	OCCUPANT LOAD FACTOR	COMMENTS	AREA	OCCUPANT LOAD
FOURTH FLOOR					
BUSINESS	LESS CONCENTRATED	150 SF/PERSON	GROSS	8,635 SF	58
STORAGE	STORAGE	300 SF/PERSON		915 SF	4
ASSEMBLY	UNCONCENTRATED	15 SF/PERSON		1,443 SF	97
ASSEMBLY	BENCH SEATING	18 INCHES/PERSON	NET	1,940 LIN IN	108
ASSEMBLY	COURTROOM	40 SF/PERSON		1,222 SF	31
TOTAL				14,155 SF	298 OCCP

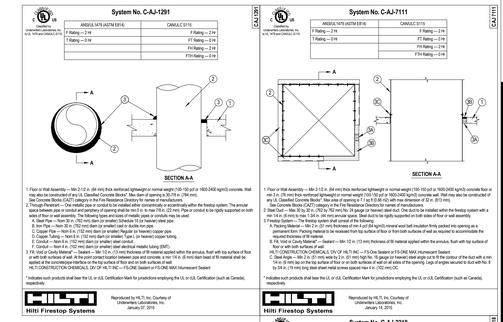
PLUMBING FIXTURE REQUIREMENTS

TOTAL OCCUPANTS BASED ON USE GROUP PER PLUMBING CODE AND OCCUPANCY CLASSIFICATION SHOWN ON THIS SHEET & USED FOR PLUMBING FIXTURE CALCULATIONS.

USE GROUP	TOTAL NUMBER OF OCCUPANTS
ASSEMBLY (A-3)	238
BUSINESS	58
STORAGE (ACCESS. TO PRIMARY)	4
TOTAL=	300

CLASSIFICATION	OCCUPANCY	WATER CLOSETS		LAVATORIES		BATHTUBS /SHOWERS	DRINKING FOUNTAIN	OTHER
		MALE	FEMALE	MALE	FEMALE			
ASSEMBLY (242 TOT OCC)	A-3	1 PER 125 121/125= .968	1 PER 65 121/65= 1.86	1 PER 200 121/200= .605	1 PER 200 121/200= .605	N/A	1 PER 500 121/500= .242	1 SERVICE SINK
BUSINESS (58 TOT OCC)	B	1:25 FOR 1ST 50 1:50 FOR REMAIN 29/25= 1.12	1:25 FOR 1ST 50 1:50 FOR REMAIN 29/25= 1.12	1:40 FOR 1ST 80 1:80 FOR REMAIN 29/40= .725	1:40 FOR 1ST 80 1:80 FOR REMAIN 29/40= .725	N/A	1 PER 100 29/100= .29	
TOTAL REQUIRED		3	3	2	2		1	1
TOTAL PROVIDED		3 WC, 2 UR	6	4	5		4	1

FIRESTOPPING DETAILS



USE AND OCCUPANT LOAD FACTORS

BUISNESS USE - LESS CONCENTRATED

STORAGE USE

ASSEMBLY USE - LESS CONCENTRATED

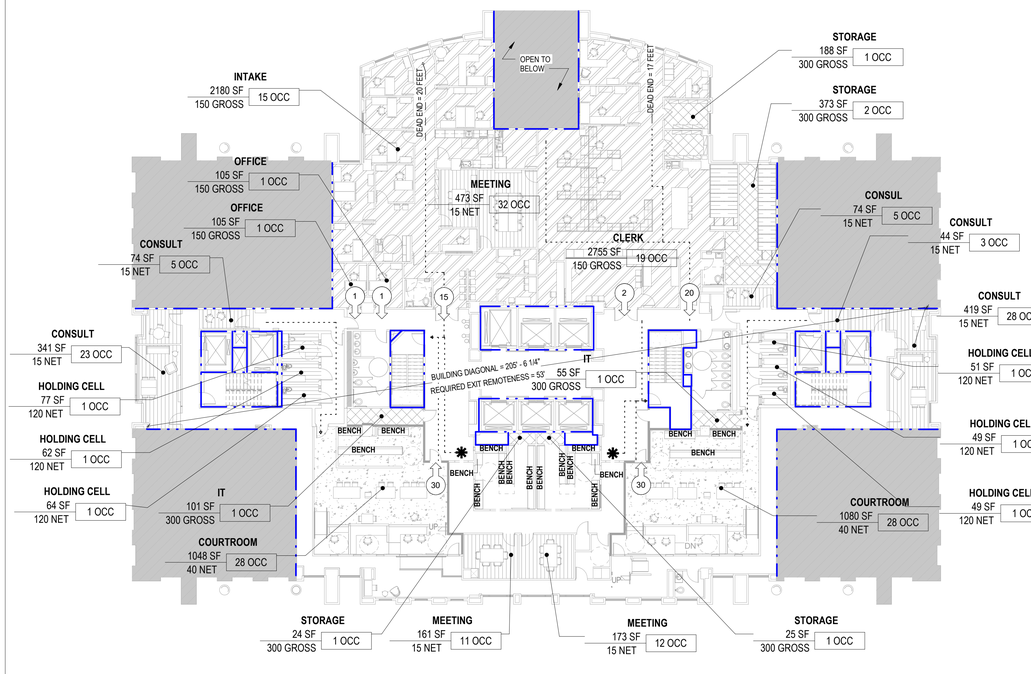
ASSEMBLY USE - BENCH SEATING 18 INCHES/PERSON

ASSEMBLY USE - COURTROOM

INSTITUTIONAL USE - DETENTION/ CORRECTIONAL

LEGEND (EGRESS PLANS)

- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION
- 2-HR FIRE SEPARATION
- 1-HR FIRE PARTITION
- NOT IN CONTRACT
- ACCESSIBLE ROUTE
- 80 TRIBUTARY EGRESS LOAD
- # OCCUPANT LOAD EGRESS CAPACITY
- SF NET/GSF / OCC OCCUPANT LOAD CALCULATION (CODE)
- ## OCCUPANT LOAD CALCULATION (PROGRAM)
- TLT TOILET COMPARTMENT IN CLASSROOM
- 250'-0" EXIT ACCESS TRAVEL DISTANCE
- 1 HOUR CEILING ASSEMBLY, U415
- FEC FIRE EXTINGUISHER CABINET



1 A501 CS02 LEVEL 4 - EGRESS PLAN
SCALE: 1/16" = 1'-0"

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.8730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.3001

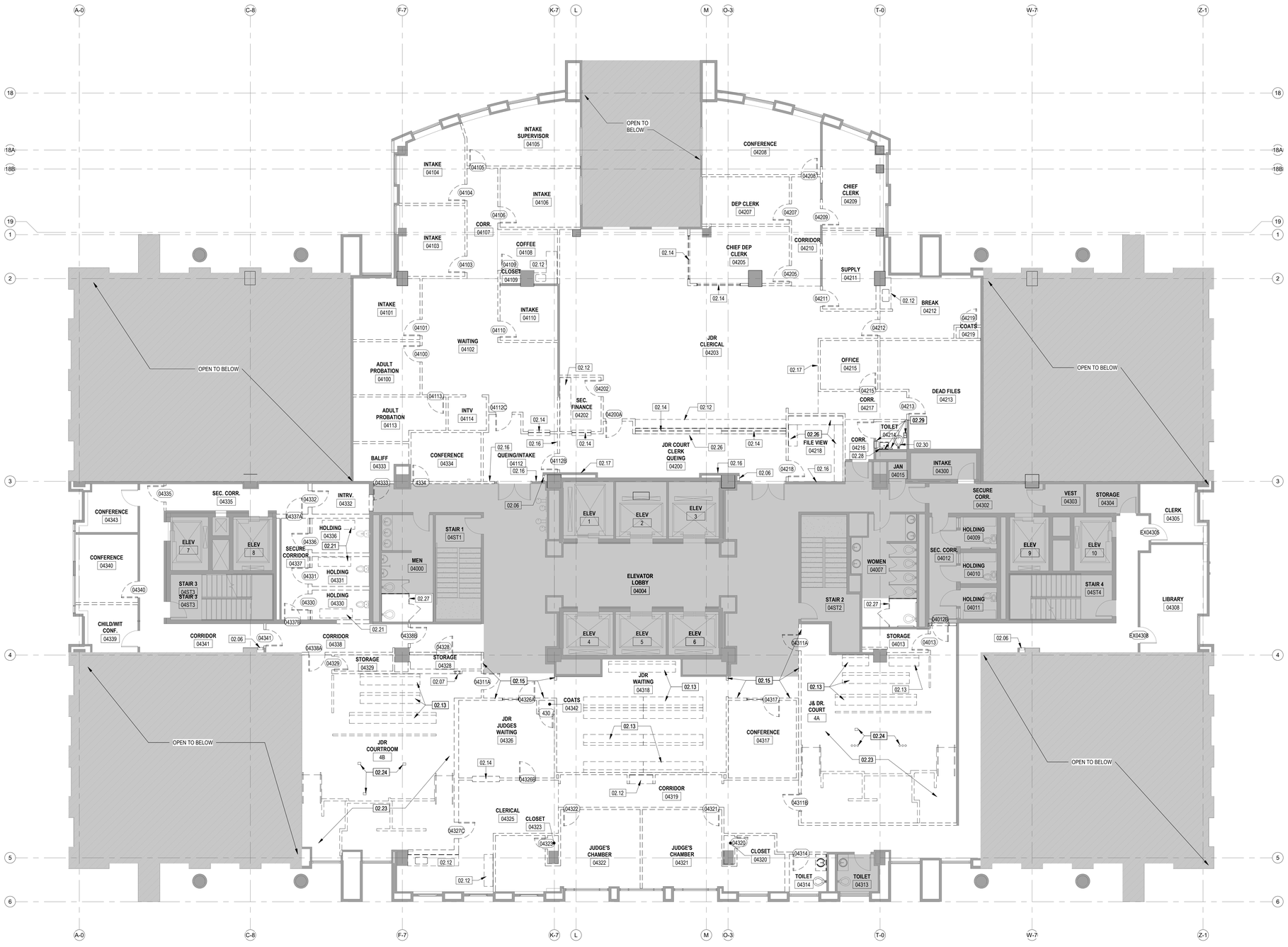
COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCY
Lic No. 0401017642
ARCHITECT

PROJECT #	21085
DRAWN:	Author
CHECKED:	Checker
SCALE:	AS INDICATED

DATE:	ISSUE:	#
08/29/22	SCHEMATIC DESIGN	
01/27/2023	DESIGN DEVELOPMENT	
07/14/2023	FINAL SUBMISSION	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2

SHEET TITLE:
PROJECT DATA, CODE ANALYSIS, GENERAL NOTES

SHEET #
CS02



2 A501 A101 LEVEL 4 DEMO FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES (DEMO PLANS)

1. VERIFY ALL DIMENSIONS DESCRIBING EXTENTS OF DEMOLITION WITH ARCHITECT IN FIELD.
2. DIMENSIONS DEMONSTRATE DESIGN INTENT AND SHALL BE COORDINATED WITH ACTUAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS WITH EXISTING CONDITIONS.
3. COORDINATE ALL DEMOLITION WITH NEW WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICT.
4. REFER TO STRUCTURAL DRAWINGS FOR REMOVAL OF EXISTING STRUCTURAL BUILDING ELEMENTS INCLUDING BUT NOT LIMITED TO SLAB.
5. REFER TO MEP DRAWINGS FOR REMOVAL OF EXISTING MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES AND EQUIPMENT.
6. REMOVE ALL EXISTING FINISH FLOORING AND BASE, UNO. IN WORK AREA NOTED.
7. SEE ENLARGED PLANS FOR DETAILED SCOPE OF WORK.
8. REMOVE ALL EXISTING INTERIOR BUILDING MOUNTED WAYFINDING SIGNAGE IN WORK AREA NOTED.
9. REMOVE ALL EXISTING WALL MOUNTED EQUIPMENT IN WORK AREA NOTED.
10. REMOVE, SALVAGE & PROTECT ALL EXISTING DOORS, FRAMES, AND HARDWARE UNO. FOR RESINTALL IN NEW WORK PHASE. PREPARE EXISTING OPENINGS TO RECEIVE NEW WORK. EXISTING WOOD DOORS TO BE PATCHED, REPAIRED, REFINISHED AND RE-STAINED PRIOR TO INSTALLATION IN WORK AREA NOTED. SEE DOOR SCHEDULE FOR NEW DOOR LOCATIONS.
11. DIMENSIONS TO AREAS OF DEMOLITION ARE TO NEW FINISH OPENINGS/CONDITIONS. CONTRACTOR SHALL ACCOUNT FOR THE TOOTHING OR TYING IN OF NEW WORK WHEN DETERMINING EXTENTS OF DEMOLTION FOR NEW OPENINGS IN EXISTING CONSTRUCTION.
12. UNUSED OPENINGS IN WALLS AND FLOORS CAUSED BY THE REMOVAL OF M.E.P. OR OTHER EQUIPMENT THAT IS NOT REPLACED SHALL BE INFILLED TO MATCH ADJACENT CONSTRUCTION AND COORDINATE WITH NEW WORK.
13. FOR CLARITY, NOT ALL ELEMENTS REQUIRING DEMOLITION ARE SHOWN ON PLANS, V.I.F.
14. EXISTING MINI-BLINDS TO REMAIN. WRAP AND PROTECT THEM DURING CONSTRUCTION.

KEYNOTES

02.06	PROTECT EXISTING FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET TO REMAIN DURING CONSTRUCTION
02.07	REMOVE & SALVAGE EXISTING FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET FOR REINSTALLATION
02.12	REMOVE EXISTING BUILT-IN CASEWORK
02.13	SALVAGE & PROTECT ALL EXISTING COURTROOM/WAITING ROOM BENCHES FOR REINSTALL IN NEW WORK PHASE. EXISTING BENCHES TO BE PATCHED, REPAIRED, RESIZED, RESTAINED AND REFINISHED PRIOR TO INSTALLATION.
02.14	REMOVE INTERIOR WINDOWS AND WINDOW SILLS
02.15	SALVAGE FOR REUSE ALL STONE WAINSCOT, BASE AND CASING THAT IS IMPACTED BY DEMOLITION. CAREFULLY REMOVE TAKING CARE NOT TO DAMAGE STONE SO IT CAN BE REINSTALLED
02.16	SALVAGE EXISTING FORM/BROCHURE HOLDER TO BE REUSED. REMOVE CAREFULLY SO AS NOT TO DAMAGE ITEM. CLEAN, REPAIR AND PREPARE FOR REINSTALLATION.
02.17	SALVAGE EXISTING DISPLAY CASE TO BE REUSED. REMOVE CAREFULLY SO AS NOT TO DAMAGE ITEM. CLEAN, REPAIR AND PREPARE FOR REINSTALLATION.
02.21	SALVAGE EXISTING BENCHES FOR REINSTALLATION AT NEW HOLDING CELLS. SEE NEW FLOOR PLANS.
02.23	SALVAGE EXISTING WOOD AND MARBLE BASE FOR REINSTALLATION, TYP.
02.24	DEMO EXISTING FLOOR BOXES.
02.26	REMOVE EXISTING COUNTERTOP
02.27	DEMOLISH PORTION OF EXISTING TOILET STALL AND DOOR. PREPARE, PATCH, AND REPAIR AS NEEDED FOR NEW WORK.
02.28	REMOVE EXISTING SINK. CAP OFF WATER LINE, PATCH AND REPAIR WALL AS NEEDED IN PREPARATION FOR NEW PAINT.
02.29	DEMOLISH EXISTING TOILET ACCESSORIES, PATCH AND REPAIR WALL TO RECEIVE NEW FINISH.
02.30	DEMOLISH EXISTING TOILET. PREPARE, PATCH FLOOR AND WALL FOR NEW WORK.

LEGEND (DEMOLITION)

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING PARTITION, DOOR, AND DOOR FRAME TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING PARTITION, DOOR, AND DOOR FRAME TO BE REMOVED
- NOT IN CONTRACT
- SEE RCP DEMOLITION KEYNOTES FOR LIGHTING WORK IN THIS AREA

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCYK
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

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08/29/22	SCHEMATIC DESIGN
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07/14/2023	FINAL SUBMISSION
09/15/2023	PERMIT SET
12/12/2023	PERMIT REVISION 2

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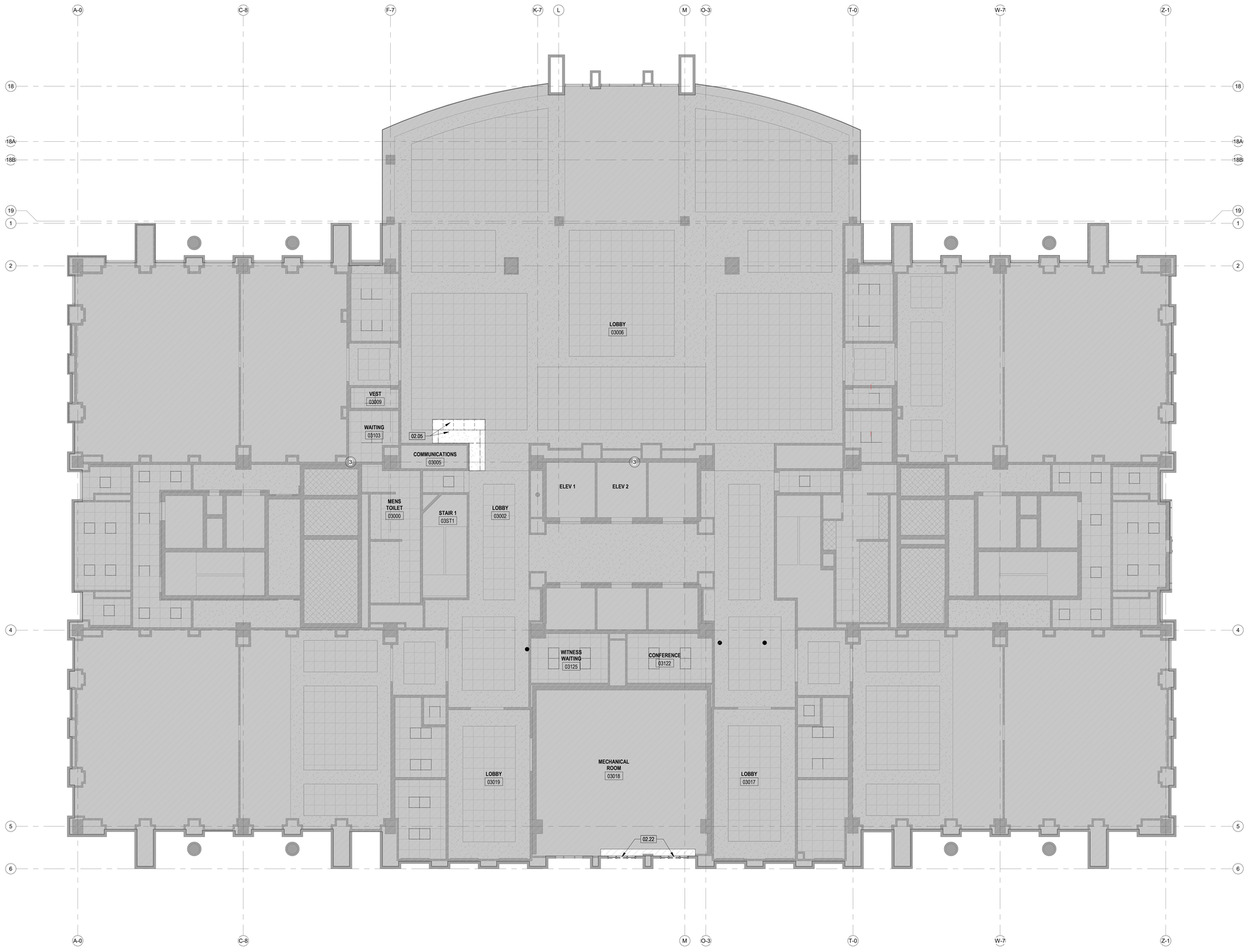
SHEET TITLE:
DEMOLITION FLOOR PLAN

SHEET #
A101



1 A120 LEVEL 3 DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES (REFLECTED DEMOLITION CEILING PLANS)

1. REMOVE ALL LIGHT FIXTURES SHOWN DASHED IN AREA OF WORK. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION
2. REMOVE ALL ACOUSTICAL PANEL CEILINGS AND ASSOCIATED HARDWARE SHOWN DASHED IN AREA OF WORK.
3. COORDINATE ALL DEMOLITION WITH NEW WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICT.
4. REFER TO MEP DRAWINGS FOR REMOVAL OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT.
5. REMOVE ALL EXISITING CEILING SYSTEMS AND ALL ASSOCIATED HARDWARE IN AREA OF WORK.

LEGEND (DEMOLITION)

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING PARTITION, DOOR, AND DOOR FRAME TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING PARTITION, DOOR, AND DOOR FRAME TO BE REMOVED
- NOT IN CONTRACT
- SEE RCP DEMOLITION KEYNOTES FOR LIGHTING WORK IN THIS AREA

Keynote Legend

Key Value	Keynote Text
02.05	REMOVE PORTION OF EXISTING GYP. BD. CEILING AND PARTIAL APC TILES FOR NEW PLUMBING INSTALLATION. PREP AREA TO RECEIVE NEW WORK. SEE PLUMBING DRAWINGS.
02.22	EXISITNG EXTERIOR WINDOWS TO BE REMOVED, SALVAGED, AND REINSTALLED AFTER NEW MECHANICAL EQUIPMENT INSTALLATION.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
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Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

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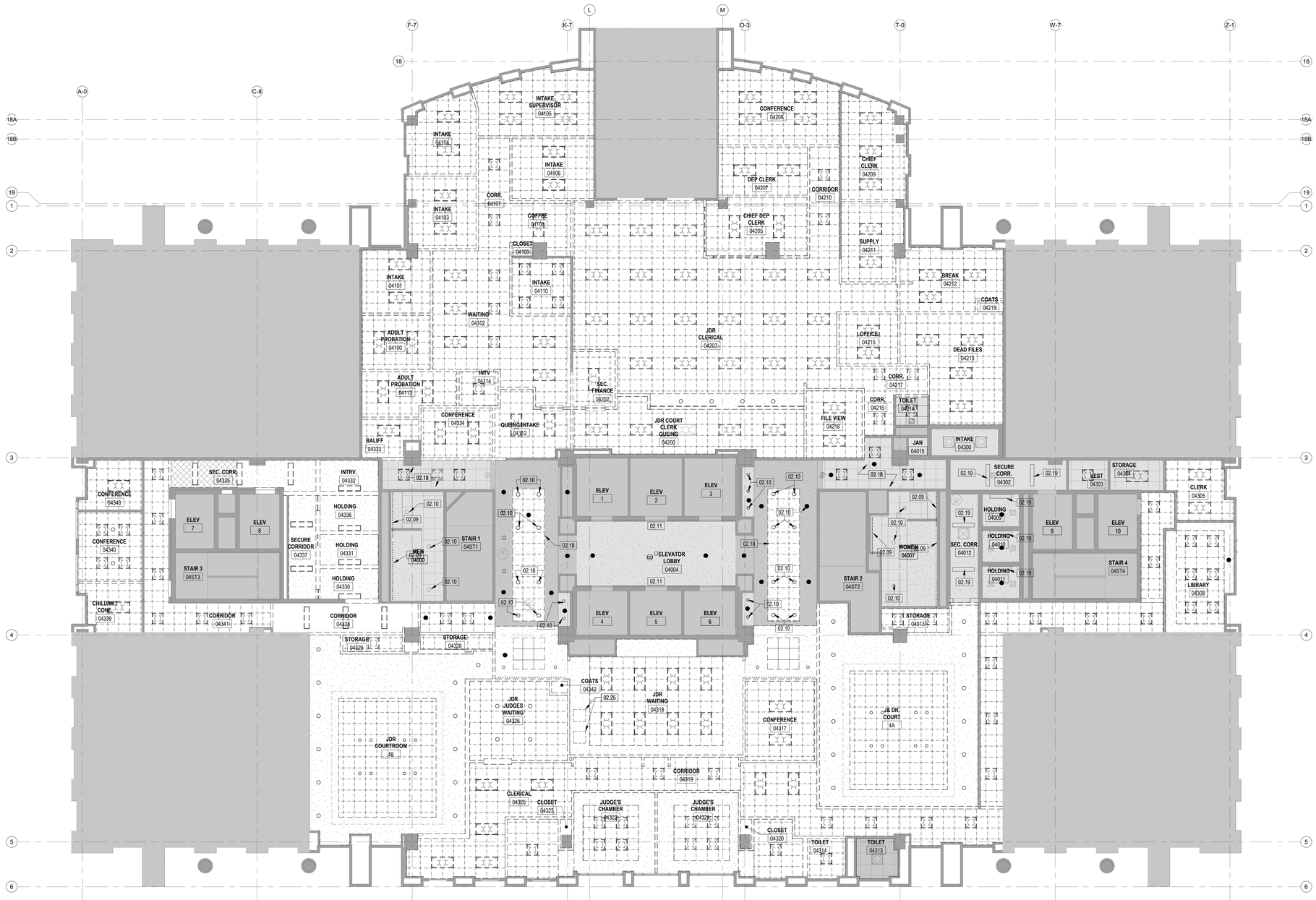
SHEET TITLE:
DEMOLITION REFLECTED CEILING PLAN - LEVEL 3

SHEET #
A120



1 LEVEL 4 DEMO REFLECTED CEILING PLAN
A501 A121 SCALE: 1/8" = 1'-0"

GENERAL NOTES (REFLECTED DEMOLITION CEILING PLANS)

1. REMOVE ALL LIGHT FIXTURES SHOWN DASHED IN AREA OF WORK. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION
2. REMOVE ALL ACOUSTICAL PANEL CEILINGS AND ASSOCIATED HARDWARE SHOWN DASHED IN AREA OF WORK.
3. COORDINATE ALL DEMOLITION WITH NEW WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICT.
4. REFER TO MEP DRAWINGS FOR REMOVAL OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT.
5. REMOVE ALL EXISITING CEILING SYSTEMS AND ALL ASSOCIATED HARDWARE IN AREA OF WORK.

LEGEND (DEMOLITION)

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING PARTITION, DOOR, AND DOOR FRAME TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING PARTITION, DOOR, AND DOOR FRAME TO BE REMOVED
- NOT IN CONTRACT
- SEE RCP DEMOLITION KEYNOTES FOR LIGHTING WORK IN THIS AREA

Keynote Legend

Key Value	Keynote Text
02.09	REMOVE EXISTING STAGGERED STRIP LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR NEW LIGHT FIXTURE FOR THIS LOCATION.
02.10	REMOVE DOWNLIGHT FIXTURE ENGINE. SEE LIGHT FIXTURE SCHEDULE FOR NEW RETROFIT KIT FOR THIS FIXTURE.
02.11	REMOVE COVE LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE FOR NEW LIGHT FIXTURE FOR THIS LOCATION.
02.18	DEMOLISH EXISTING ACOUSTICAL PANEL CEILING . EXISTING GRIDS TO REMAIN.
02.19	REMOVE EXISTING VANDAL RESISTANT FIXTURES. SEE LIGHT FIXTURE SCHEDULE FOR REPLACEMENT LIGHT FIXTURES.
02.25	REMOVE EXISTING ACCESS PANELS, PREP TO RECEIVE NEW PATCH.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
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7906 Richfield Road
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Downey & Scott, LLC
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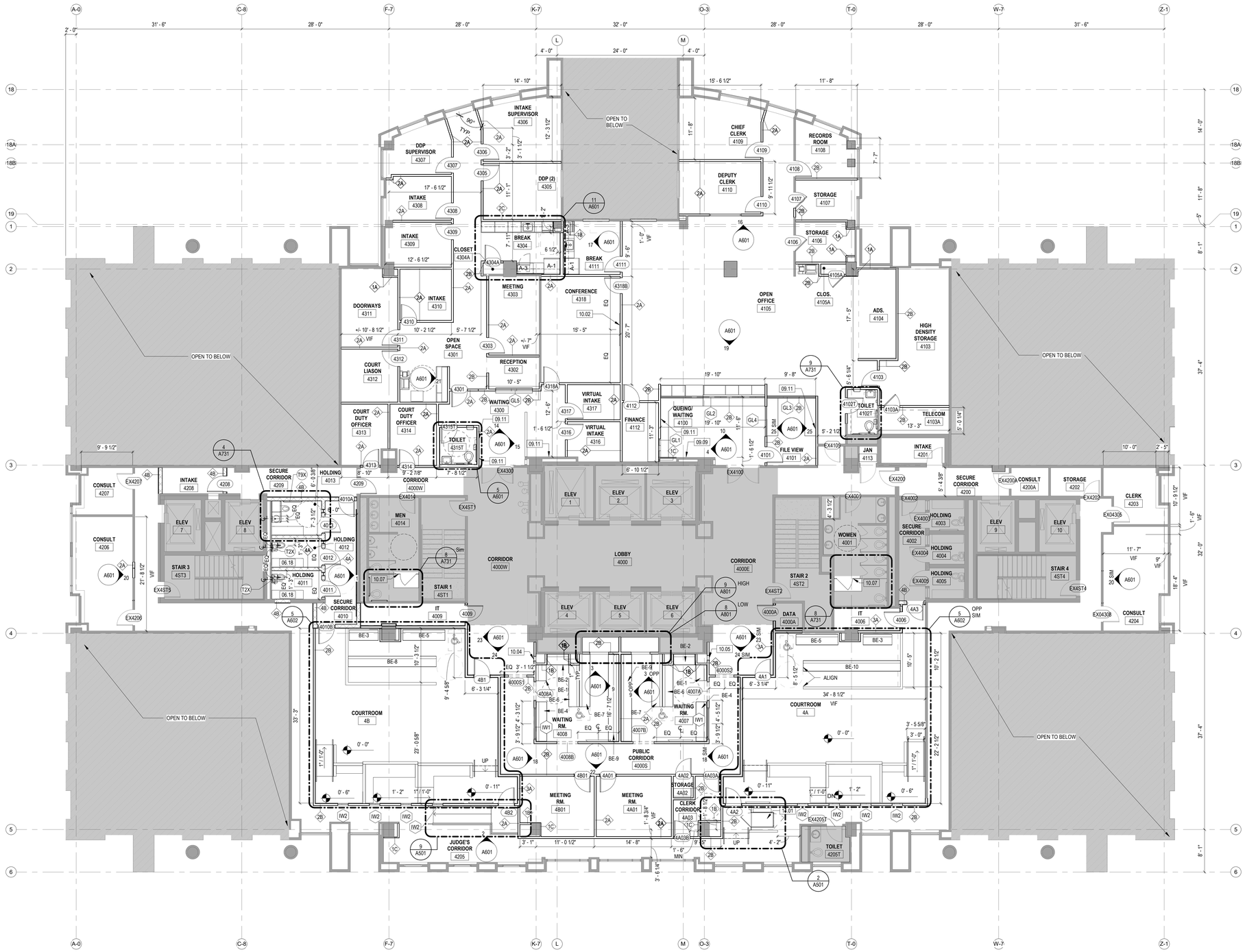
SCALE: AS INDICATED

SHEET TITLE: **DEMOLITION REFLECTED CEILING PLAN**

SHEET # **A121**



1 LEVEL 4 NEW WORK FLOOR PLAN
A501 A201 SCALE: 1/8" = 1'-0"

GENERAL NOTES (FLOOR PLANS)

1. SEE A711 FOR PARTITION TYPES AND WALL ASSEMBLIES.
2. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. DASHED LINES SHOWN ARE REPRESENTING CLEARANCE OR LINES OF ITEMS ABOVE, U.N.O.
5. ALL DIMENSIONS ARE TO FINISH FACE OF WALL, DIMENSIONS ARE TO FACE OF GYP U.N.O. REFER TO FINISH SCHEDULE FOR FINISHES.
6. NOTE FINISHES, ORIENTATION AND/OR HAND MAY VARY IN SOME CONDITIONS CALLED OUT AS SIMILAR IN PLAN.
7. A GROUND PENETRATING RADAR (GPR) SCAN OR AN EQUIVALENT AS APPROVED BY THE CONTRACTOR SHALL BE PERFORMED AT THE PROPOSED CORE DRILL LOCATIONS FOR REVIEW AND APPROVAL BEFORE PROCEEDING WITH ANY WORK.
8. ALL HOLDING CELLS, EXISTING AND NEW, ARE GENDER NEUTRAL.

LEGEND (FLOOR PLANS)

- ## — KEYNOTE (FIRST NUMBER INDICATES SPECIFICATION DIVISION)
- 1i — PARTITION TYPE
- 101 — DOOR NUMBER
- 1t — WINDOW / CURTAIN WALL / LOUVER TYPE (FLOOR PLANS)
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- NOT IN CONTRACT
- X — TOILET ROOM ACCESSORIES, SEE A601 FOR TOILET ROOM ACCESSORIES SCHEDULE

BENCH SCHEDULE

TYPE	DESCRIPTION	SIZE WIDTH	DEPTH	HEIGHT
BE-1	WAITING ROOM BENCH	3' - 0"	2' - 0"	2' - 10"
BE-2	WAITING ROOM BENCH	4' - 0"	2' - 0"	2' - 10"
BE-3	COURTROOM BENCH	5' - 6"	2' - 0"	2' - 10"
BE-4	WAITING ROOM BENCH	7' - 6"	2' - 0"	2' - 10"
BE-5	COURTROOM BENCH	8' - 0"	2' - 0"	2' - 10"
BE-6	WAITING ROOM BENCH	7' - 11"	2' - 0"	2' - 10"
BE-7	WAITING ROOM BENCH	10' - 0"	2' - 0"	2' - 10"
BE-8	COURTROOM BENCH	16' - 9"	2' - 0"	2' - 10"
BE-9	WAITING ROOM BENCH	16' - 6"	2' - 0"	2' - 10"
BE-10	COURTROOM BENCH	18' - 6"	2' - 0"	2' - 10"

KEYNOTES

06.18	BOLT SALVAGED BENCHES TO THE FLOOR. REFINISH WOOD TOP AND REPAIN METAL LEGS.
09.09	REINSTALL SALVAGED DISPLAY BOX.
09.11	REINSTALL SALVAGED FORM/BROCHURE HOLDER
10.02	4'X6' MARKERBOARD, SEE SPEC
10.04	REINSTALL SALVAGED FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET
10.05	PROVIDE FIRE EXTINGUISHER AND FIRE EXTINGUISHER CABINET TO MATCH EXISTING
10.07	PROVIDE NEW TOILET PARTITION DOOR AND ASSOCIATED PANELS, AS SHOWN, TO MEET ANSI A117.1-2009 REQUIREMENTS.
14.01	ADA LIFT

TOILET ROOM ACCESSORIES SCHEDULE

MARK	DESCRIPTION	DIMENSIONS
T1	SOAP DISENSER	REFER TO SPECIFICATIONS
T2	ADA TILTED FRAMED MIRROR	REFER TO SPECIFICATIONS
T2X	VANDAL AND LIGATURE RESISTANT FRAMED MIRROR	REFER TO SPECIFICATIONS
T3	NOT USED	
T4	TOILET PAPER DISPENSER	REFER TO SPECIFICATIONS
T6	TOILET SEAT COVER DISPENSER	REFER TO SPECIFICATIONS
T7	SANITARY NAPKIN DISPOSAL	REFER TO SPECIFICATIONS
T8	PAPER TOWEL DISPENSER / WASTE RECEPTACLE	REFER TO SPECIFICATIONS
T9	GRAB BARS	REFER TO SPECIFICATIONS
T9X	VANDAL AND LIGATURE RESISTANT GRAB BAR	REFER TO SPECIFICATIONS

MTFA
design + preservation
316 PENNSYLVANIA AVE, SE - SUITE 401
WASHINGTON, DC 20003
p. 202.996.3160 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
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571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.8730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCYK
Lic No. 0401017642
ARCHITECT

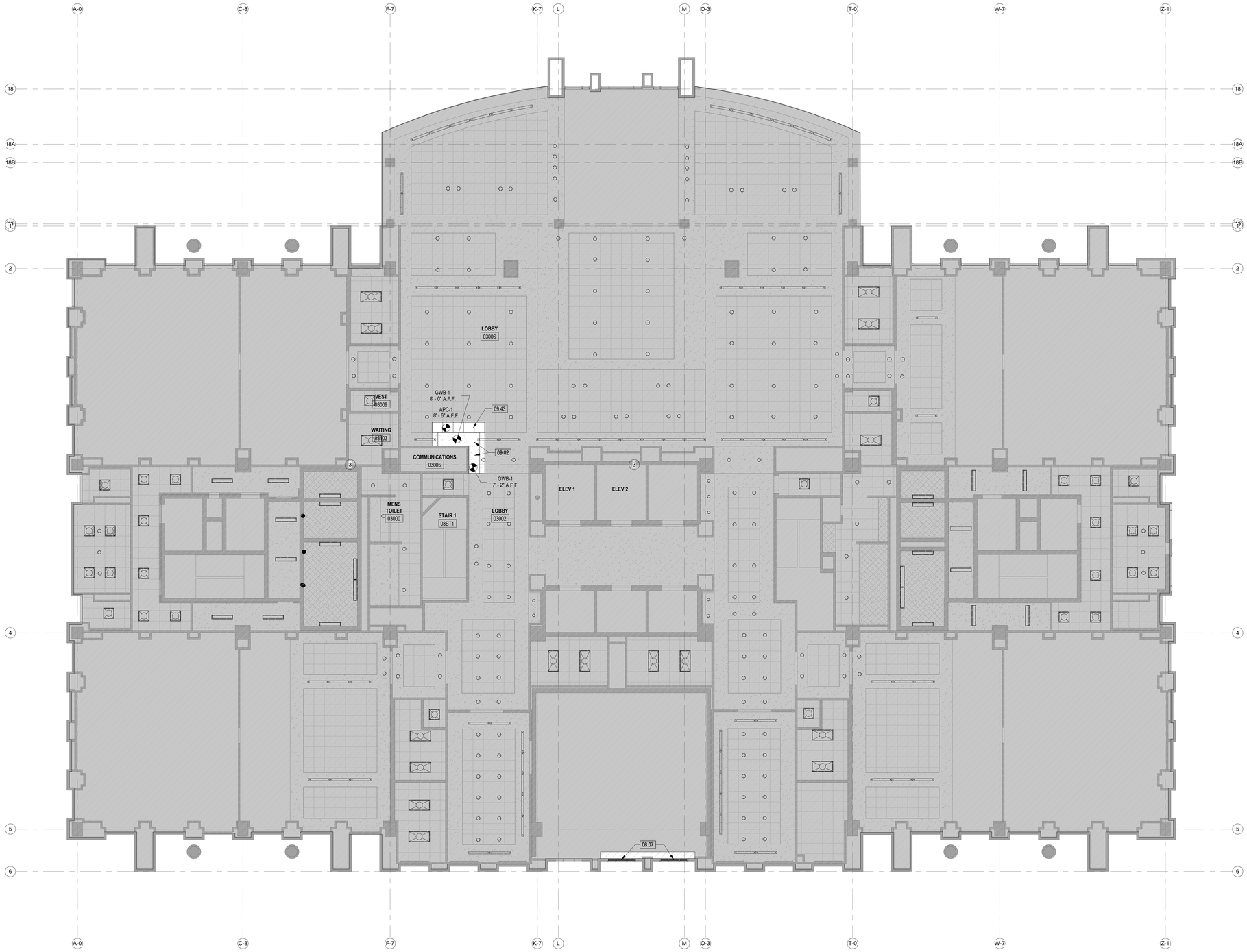
PROJECT # 21085

DATE:	ISSUE:	#
08/29/22	SCHEMATIC DESIGN	
01/27/2023	DESIGN DEVELOPMENT	
07/14/2023	FINAL SUBMISSION	
09/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2

DRAWN: M. E.
CHECKED: E.E
SCALE: AS INDICATED

SHEET TITLE: **NEW WORK FLOOR PLAN**

SHEET # **A201**



1 A220 LEVEL 3 NEW WORK REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES (REFLECTED CEILING PLANS)

1. THE GENERAL CONTRACTOR SHALL COORDINATE THE MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL WORK TO ACCOMMODATE THE INSTALLATION OF THE CEILINGS AT THE HEIGHTS INDICATED. NOTIFY ARCHITECT AT ONCE IF CEILING HEIGH INDICATED CANNOT BE ACHIEVED.

2. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES. SEE MECHANICAL DRAWINGS FOR DIFFUSERS AND GRILLES.

3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR CEILING MOUNTED ITEMS NOT SHOWN ON THESE DRAWINGS.

4. SEE FINISH SCHEDULE, FINISH MATERIAL KEY, AND SPECIFICATIONS FOR ACOUSTICAL TILE TYPES.

5. SEE DOOR AND WINDOW SCHEDULE AND DETAILS FOR HEAD CONDITIONS.

6. ALL CEILINGS NOTED AS GB TO BE PAINTED PER ROOM FINISH SCHEDULE.

7. CONTROL JOINTS IN INTERIOR CEILINGS WITH PERIMETER RELIEF SHALL BE INSTALLED SO THAT LINEAR DIMENSIONS BETWEEN CONTROL JOINTS DO NOT EXCEED 50 FT AND TOTAL AREA BETWEEN CONTROL JOINTS DOES NOT EXCEED 2500 SF.

8. CONTROL JOINTS SHALL BE INSTALLED WHERE A WALL OR PARTITION RUNS IN AN UNINTERRUPTED STRAIGHT PLANE EXCEEDING 30 LINEAR FT.

9. SEE MEP/AV/SEC/TEL DRAWINGS FOR ADDITIONAL CEILING WORKS . ANY CEILING DEMOLITION TO COMPLETE MEP/AV/SEC/TEL WORKS ARE TO BE REINSTALLED BACK TO MATCH EXISTING CONDITION. GC TO COORDINATE.

KEYNOTES

08.07	REINSTALLED EXISITNG EXTERIOR WINDOWS AFTER NEW MECHANICAL EQUIPMENT INSTALLATION, FLASH & TRIM TO MATCH EXISTING
09.02	GWB CEILNG INFILL TO MATCH TYPE & HEIGHT OF EXISTING ADJACENT GWB CEILING
09.43	APC CEILING INFILL TO MATCH EXISTING TYPE & HEIGHT

LEGEND (REFLECTED CEILING PLANS)

- 9' - 0" CEILING HEIGHT AFF
- NOT IN CONTRACT
- RETROFIT, RELAMP, OR REPLACE EXISTING LIGHTS. SEE ELEC DRAWINGS
- GWB-2 & 3, ACOUSTIBUILT
- APC-1, ACOUSTICAL CEILING TILE
- GWB-1, GYPSUM BOARD
- SP, SECURITY PLASTER
- CAN LIGHT
- STRIP LIGHT
- 2x2 RECESSED LIGHT
- PENDANT LIGHT
- RECESSED LINEAR LIGHT
- SPEAKER
- CAMERA
- EXIT SIGN
- SPRINKLER

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.8730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCYA
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

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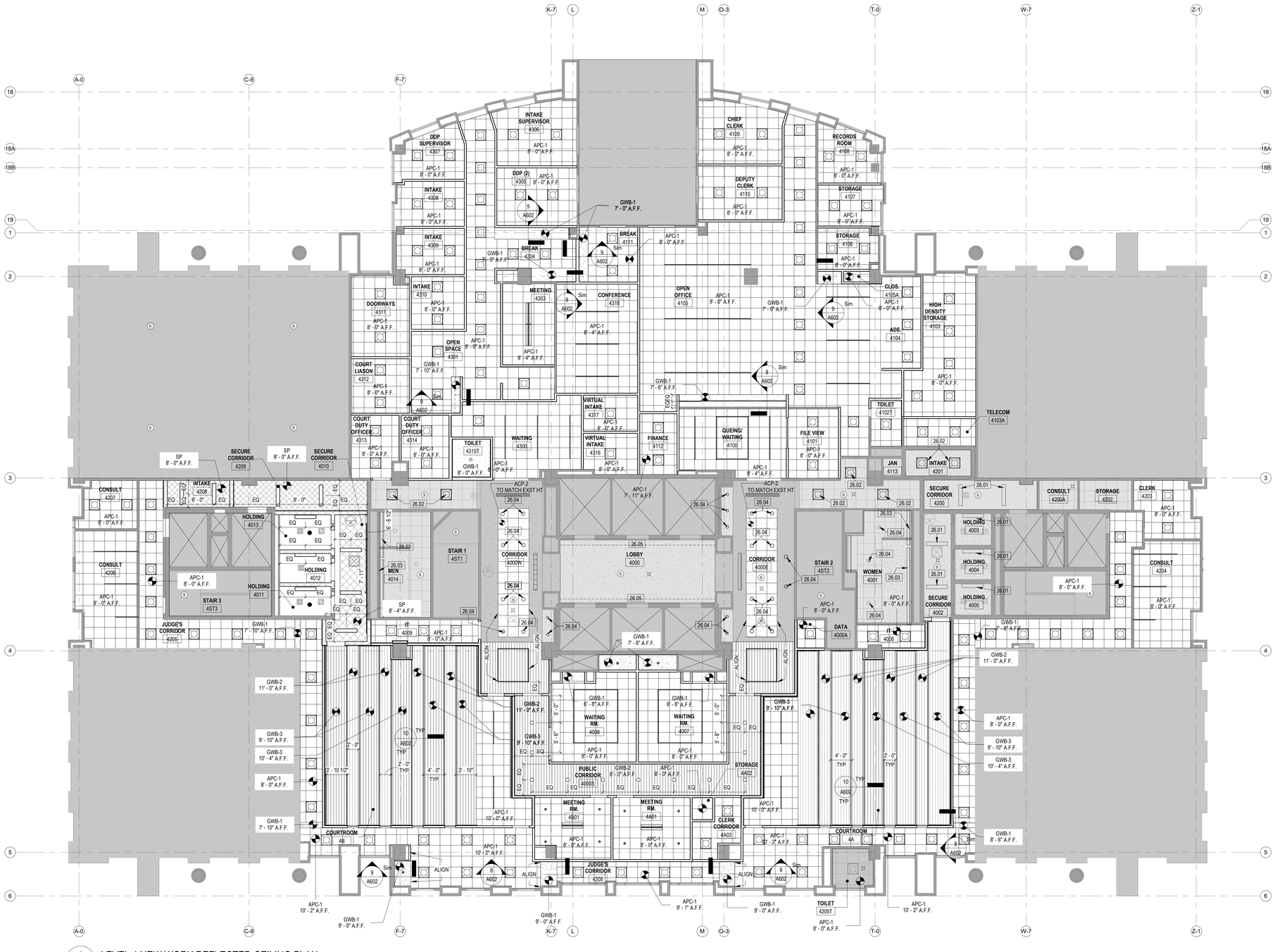
10/06/2023	PERMIT REVISION	1

DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED

SHEET TITLE: **REFLECTED CEILING PLAN - LEVEL 3**

SHEET # **A220**



1 A501 | A221 LEVEL 4 NEW WORK REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES (REFLECTED CEILING PLANS)

1. THE GENERAL CONTRACTOR SHALL COORDINATE THE MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL WORK TO ACCOMMODATE THE INSTALLATION OF THE CEILINGS AT THE HEIGHTS INDICATED. NOTIFY ARCHITECT AT ONCE IF CEILING HEIGH INDICATED CANNOT BE ACHIEVED.

2. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES. SEE MECHANICAL DRAWINGS FOR DIFFUSERS AND GRILLES.

3. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR CEILING MOUNTED ITEMS NOT SHOWN ON THESE DRAWINGS.

4. SEE FINISH SCHEDULE, FINISH MATERIAL KEY, AND SPECIFICATIONS FOR ACOUSTICAL TILE TYPES.

5. SEE DOOR AND WINDOW SCHEDULE AND DETAILS FOR HEAD CONDITIONS.

6. ALL CEILINGS NOTED AS GB TO BE PAINTED PER ROOM FINISH SCHEDULE.

7. CONTROL JOINTS IN INTERIOR CEILINGS WITH PERIMETER RELIEF SHALL BE INSTALLED SO THAT LINEAR DIMENSIONS BETWEEN CONTROL JOINTS DO NOT EXCEED 50 FT AND TOTAL AREA BETWEEN CONTROL JOINTS DOES NOT EXCEED 2500 SF.

8. CONTROL JOINTS SHALL BE INSTALLED WHERE A WALL OR PARTITION RUNS IN AN UNINTERRUPTED STRAIGHT PLANE EXCEEDING 30 LINEAR FT.

9. SEE MEP/AV/SECT/EL DRAWINGS FOR ADDITIONAL CEILING WORKS . ANY CEILING DEMOLITION TO COMPLETE MEP/AV/SECT/EL WORKS ARE TO BE REINSTALLED BACK TO MATCH EXISTING CONDITION. GC TO COORDINATE.

KEYNOTES

26.01	PROVIDE NEW VANDAL RESISTANT LIGHT FIXTURES IN THE SAME LOCATION AS EXISTING THAT WERE REMOVED. SEE LIGHT FIXTURE SCHEDULE.
26.02	PROVIDE NEW 2' x 2' LAY IN LED LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE.
26.03	PROVIDE NEW RECESSED PERIMETER GRAZE LIGHT FIXTURE. SEE LIGHT FIXTURES.
26.04	PROVIDE NEW LED RETROFIT KIT FOR EXISTING DOWNLIGHT HOUSING. SEE LIGHT FIXTURE SCHEDULE
26.05	PROVIDE A NEW COVE LIGHT FIXTURE. SEE LIGHT FIXTURE SCHEDULE.

LEGEND (REFLECTED CEILING PLANS)

- 9' - 0" CEILING HEIGHT AFF
- NOT IN CONTRACT
- RETROFIT, RELAMP, OR REPLACE EXISTING LIGHTS. SEE ELEC DRAWINGS
- GWB-2 & 3, ACOUSTIBUILT
- APC-1, ACOUSTICAL CEILING TILE
- GWB-1, GYPSUM BOARD
- SP, SECURITY PLASTER
- CAN LIGHT
- STRIP LIGHT
- 2x2 RECESSED LIGHT
- PENDANT LIGHT
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- SPEAKER
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MTFA architecture

3200 Langston Boulevard Arlington, VA 22207
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4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCYA
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ARCHITECT

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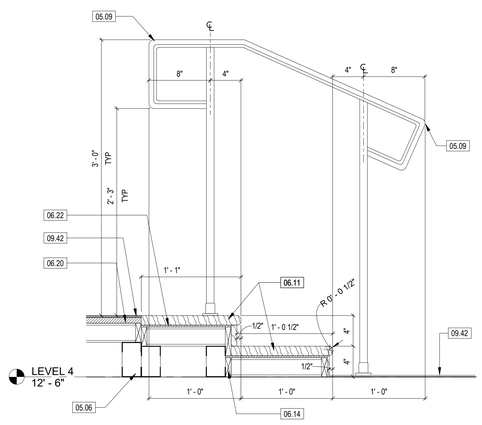
DRAWN: Author CHECKED: Checker

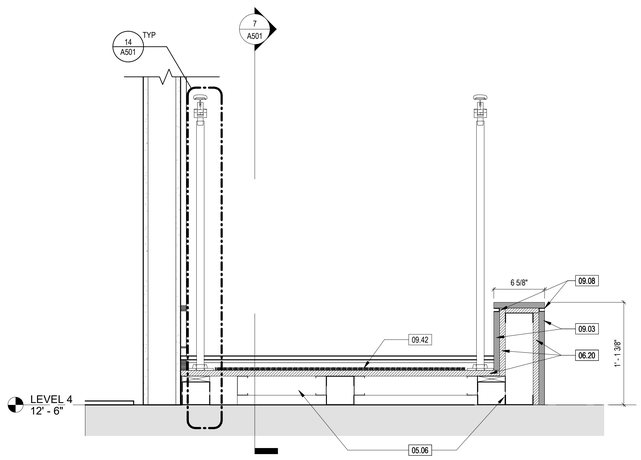
SCALE: AS INDICATED

SHEET TITLE: **REFLECTED CEILING PLAN**

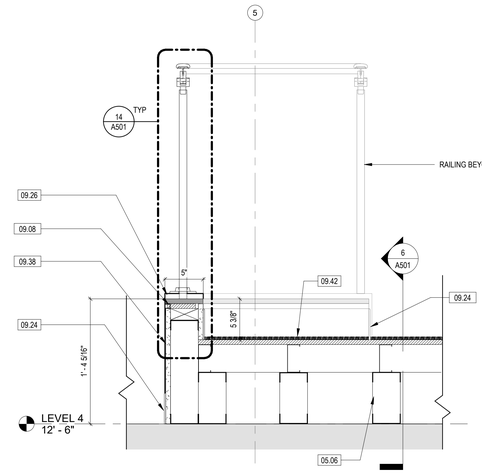
SHEET # **A221**



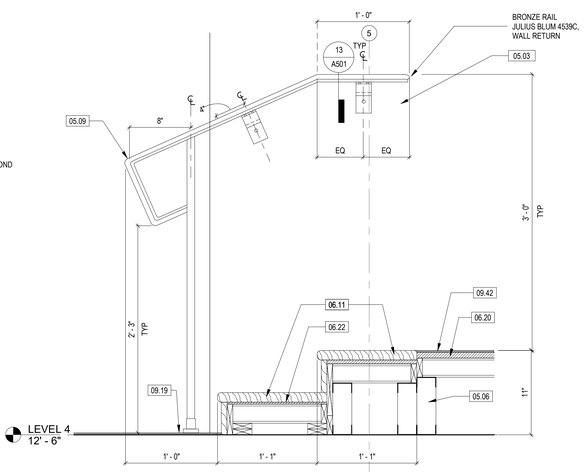
4 A501 A501 SECTION THROUGH COURT ROOM STAIR
SCALE: 1 1/2" = 1'-0"



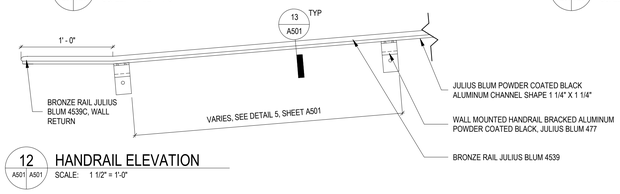
8 A501 A501 COURTROOM B JUDGE SECTION THROUGH RAMP
SCALE: 1 1/2" = 1'-0"



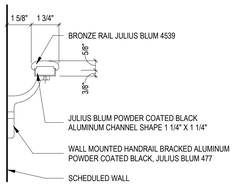
3 A501 A501 SECTION THROUGH CORRIDOR RAMP
SCALE: 1 1/2" = 1'-0"



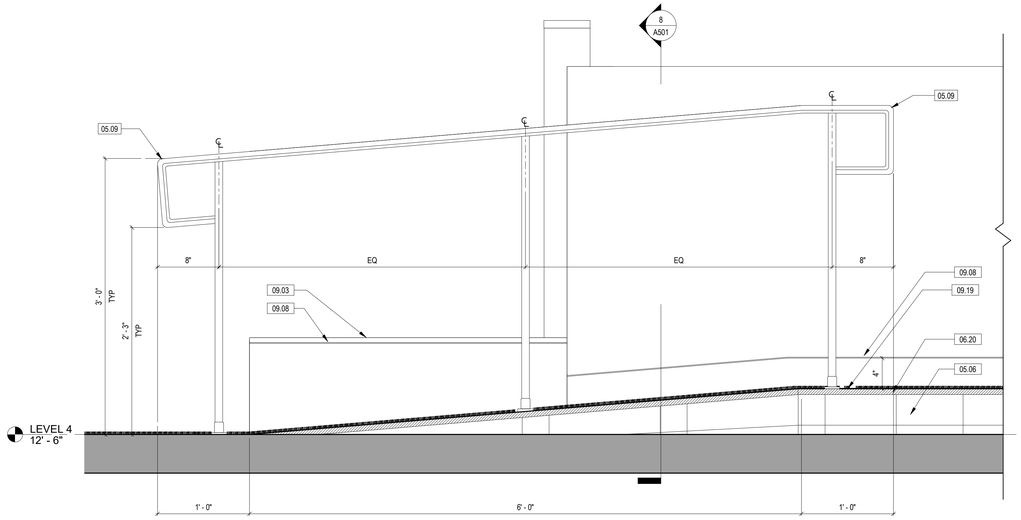
11 A501 A501 SECTION THROUGH CORRIDOR STAIR
SCALE: 1 1/2" = 1'-0"



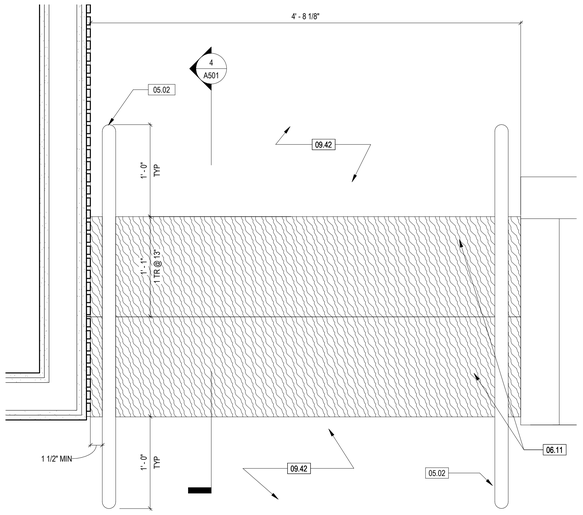
12 A501 A501 HANDRAIL ELEVATION
SCALE: 1 1/2" = 1'-0"



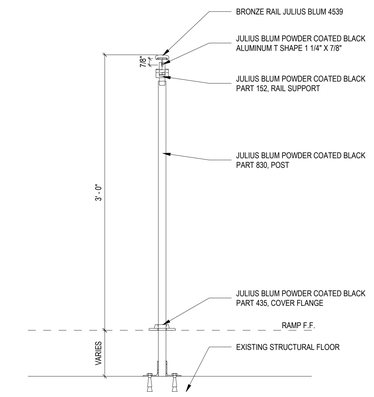
13 A501 A501 WALL RAIL BRACKET
SCALE: 3" = 1'-0"



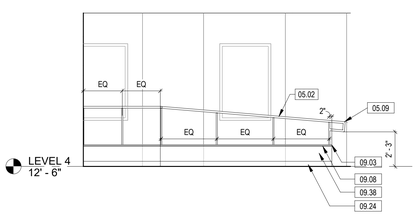
7 A501 A501 CURB AT RAMP IN COURT ROOM
SCALE: 1 1/2" = 1'-0"



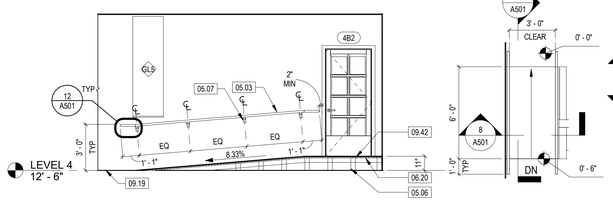
1 A602 A501 LEVEL 4 NEW WORK STAIR IN COURT ROOM
SCALE: 1 1/2" = 1'-0"



14 A501 A501 RAMP POST DETAIL
SCALE: 1 1/2" = 1'-0"

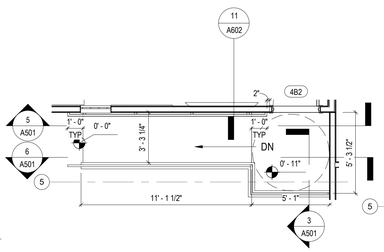


6 A501 A501 CORRIDOR RAMP HANDRAIL ELEVATION
SCALE: 1/4" = 1'-0"

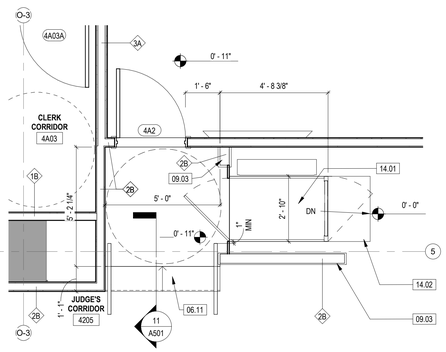


5 A501 A501 SECTION THROUGH RAMP
SCALE: 1/4" = 1'-0"

10 A602 A501 COURTROOM RAMP
SCALE: 1/4" = 1'-0"



9 A201 A501 4205 CORRIDOR RAMP
SCALE: 1/4" = 1'-0"



2 A201 A501 LEVEL 4 PLATFORM ELEVATOR ENLARGED PLAN
SCALE: 3/8" = 1'-0"

KEYNOTES

05.02	FLOOR MOUNTED HANDRAIL, SEE SPECIFICATIONS.
05.03	WALL MOUNTED HANDRAIL, SEE SPECIFICATIONS.
05.06	CFMF RAMP/ STAIR AND LANDING FRAMING
05.07	BRACKET SECURED TO WALL BEYOND, TYP.
05.09	FABRICATOR TO CREATE EXTENSION TO MATCH SPECIFIED RAILING SYSTEM.
06.11	5/4" WOOD VENEER TREADS AND 3/4" RISERS. FINISH AND STAIN TO MATCH WALLS.
06.14	1x FIRE RETARDANT TREATED (FRT) WOOD BLOCKING
06.20	3/4" FIRE RETARDANT TREATED (FRT) PLYWOOD
06.22	1/4" FIRE RETARDANT TREATED (FRT) PLYWOOD
09.03	SS-1 SOLID SURFACE. SEE FINISH SCHEDULE.
09.08	1/2" ALUMINUM REVEAL CHANNEL
09.19	CT-3, SEE FINISH SCHEDULE
09.24	BASE AS SCHEDULED
09.26	SS-3 SOLID SURFACE. SEE FINISH SCHEDULE
09.38	GYP. BD. ON METAL STUD FRAMING
09.42	CPT-1 CARPET TILE. SEE FINISH SCHEDULE
14.01	ADA LIFT
14.02	ADA LIFT RAMP

MTFA
architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Arlington County

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ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
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Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
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Cost Estimator
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6799 Kennedy Road, Unit F
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MEAGAN WARD JANCYK
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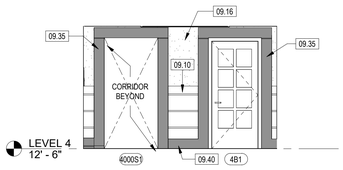
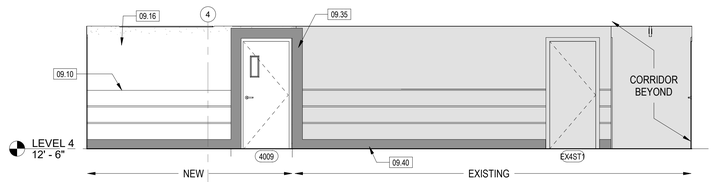
DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED

SHEET TITLE:
STAIRS, PLATFORM ELEVATOR, RAMPS, AND DETAILS

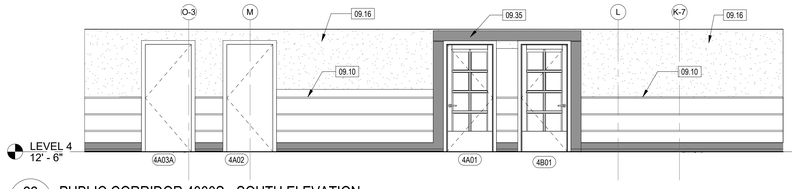
SHEET #
A501



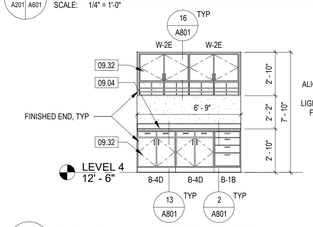
24 A201 A601 PUBLIC CORRIDOR - 4000W SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



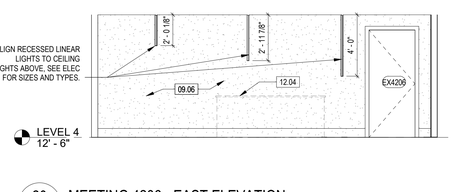
23 A201 A601 PUBLIC CORRIDOR - 4000W WEST ELEVATION
SCALE: 1/4" = 1'-0"



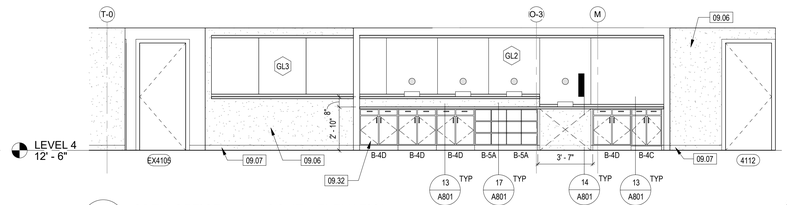
22 A201 A601 PUBLIC CORRIDOR 4000S - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



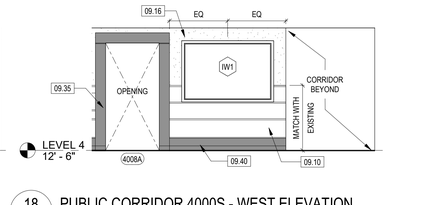
21 A201 A601 INTAKE 4301 - WEST ELEVATION
SCALE: 1/4" = 1'-0"



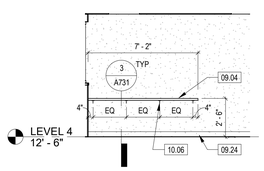
20 A201 A601 MEETING 4206 - EAST ELEVATION
SCALE: 1/4" = 1'-0"



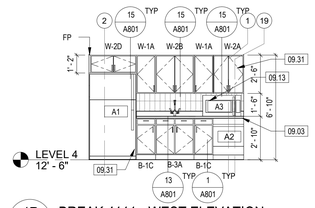
19 A201 A601 OPEN OFFICE 4105 - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



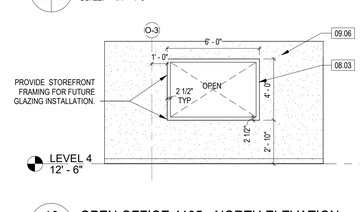
18 A201 A601 PUBLIC CORRIDOR 4000S - WEST ELEVATION
SCALE: 1/4" = 1'-0"



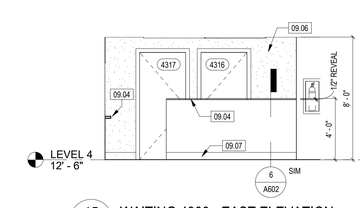
25 A201 A601 FILE ROOM COUNTER ELEVATION
SCALE: 1/4" = 1'-0"



17 A201 A601 BREAK 4111 - WEST ELEVATION
SCALE: 1/4" = 1'-0"



16 A201 A601 OPEN OFFICE 4105 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



15 A201 A601 WAITING 4300 - EAST ELEVATION
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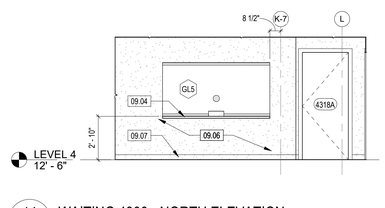

14 A201 A601 WAITING 4300 - NORTH ELEVATION
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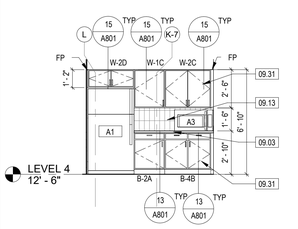
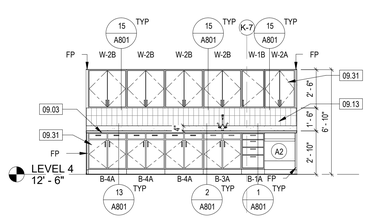
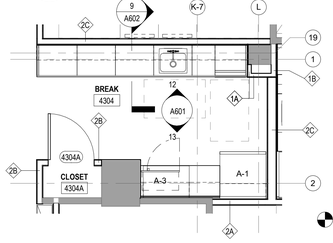


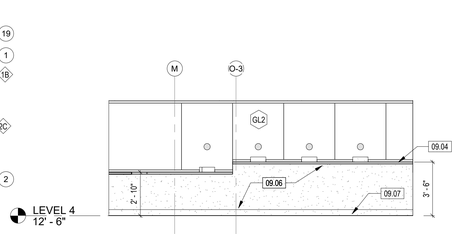
13 A601 A601 BREAK 4304 - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



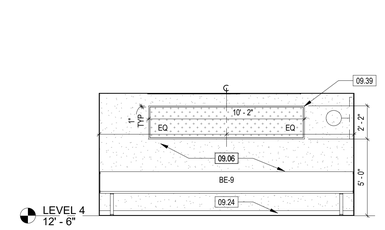
12 A601 A601 BREAK 4304 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



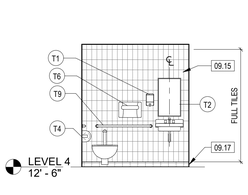
11 A201 A601 LEVEL 4 ENLARGED BREAK RM. PLAN
SCALE: 1/4" = 1'-0"



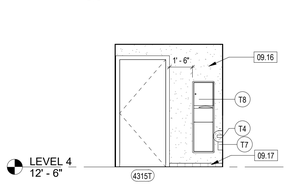
10 A201 A601 WAITING 4100 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



9 A201 A601 WAITING RM 4008 - EAST ELEVATION
SCALE: 1/4" = 1'-0"



8 A601 A601 TOILET 4315T - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



7 A601 A601 TOILET 4315T - NORTH ELEVATION
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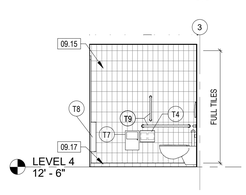
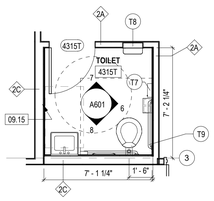
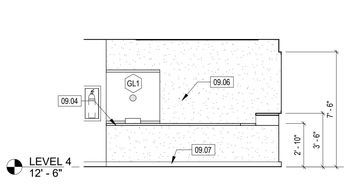


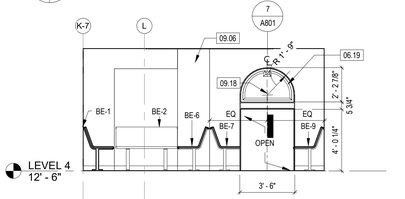
6 A601 A601 TOILET 4315T - EAST ELEVATION
SCALE: 1/4" = 1'-0"



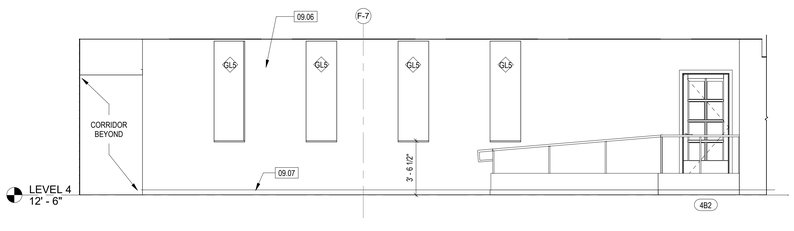
5 A201 A601 ENLARGED PLAN - TOILET 4315T
SCALE: 1/4" = 1'-0"

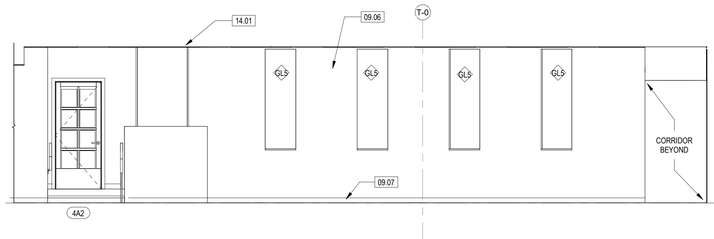


4 A201 A601 WAITING 4100 - WEST ELEVATION
SCALE: 1/4" = 1'-0"

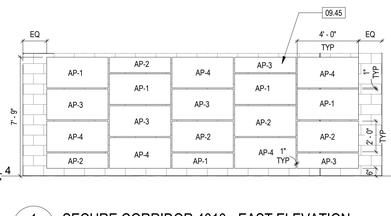


3 A201 A601 WAITING RM 4008 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"





2 A201 A601 JUDGE'S CORRIDOR 4205 - NORTH ELEVATIONS
SCALE: 1/4" = 1'-0"



1 A201 A601 SECURE CORRIDOR 4010 - EAST ELEVATION
SCALE: 1/4" = 1'-0"

LEGEND (INTERIOR ELEVATIONS)

- ## — KEYNOTE (First number indicates specification division)
- B202b — DOOR NUMBER
- 1t — WINDOW / LOUVER TYPE
- NEW WORK
- EXISTING TO REMAIN
- **CBT-1**: CERAMIC WALL BASE - FIELD (3" x 6"), RUNNING BOND, SEE FINISH SCHEDULE
- **CWT-1**: CERAMIC WALL TILE - SEE FINISH SCHEDULE
- **MB-2**: MARBLE - SEE FINISH SCHEDULE
- **MB-3**: MARBLE - SEE FINISH SCHEDULE

CASEWORK SCHEDULE

MARK	DIMENSIONS	DESCRIPTION
B-1A	18"Wx24"Dx34"H	FOUR DRAWER BASE CABINET
B-1B	21"Wx24"Dx34"H	FOUR DRAWER BASE CABINET
B-1C	15"Wx24"Dx34"H	BASE CABINET - 1 TOP DRAWER, 1 DOOR
B-2A	24"Wx24"Dx34"H	BASE CABINET - 1 TOP DRAWER, 1 DOOR
B-3A	30"Wx24"Dx34"H	BASE CABINET - W/ SINK
B-4A	30"Wx24"Dx34"H	BASE CABINET - 2 TOP DRAWERS, 2 DOORS
B-4B	36"Wx24"Dx34"H	BASE CABINET - 2 TOP DRAWERS, 2 DOORS
B-4C	24"Wx24"Dx34"H	BASE CABINET - 1 TOP DRAWERS, 1 DOORS
B-4D	26"Wx24"Dx34"H	BASE CABINET - 2 TOP DRAWERS, 2 DOORS
B-5A	24"Wx24"Dx34"H	MAILBOX UNIT
W-1A	15"Wx12"Dx30"H	WALL CABINET - 1 DOOR
W-1B	18"Wx12"Dx30"H	WALL CABINET - 1 DOOR
W-1C	24"Wx12"Dx30"H	WALL CABINET - 1 DOOR
W-2A	24"Wx12"Dx30"H	WALL CABINET - 2 DOORS
W-2B	30"Wx12"Dx30"H	WALL CABINET - 2 DOORS
W-2C	36"Wx12"Dx30"H	WALL CABINET - 2 DOORS
W-2D	36"Wx12"Dx14"H	WALL CABINET - 2 DOORS
W-2E	39"Wx12"Dx22"H	WALL CABINET - 2 DOORS, MAIL SLOTS

APPLIANCE SCHEDULE

MARK	DESCRIPTION	Comments
A1	REFRIDGERATOR/FREEZER	SEE SPECS
A2	DISHWASHER - ADA	SEE SPECS
A3	MICROWAVE OVEN	SEE SPECS

TOILET ROOM ACCESSORIES SCHEDULE

MARK	DESCRIPTION	DIMENSIONS
T1	SOAP DISENSER	REFER TO SPECIFICATIONS
T2	ADA TILTED FRAMED MIRROR	REFER TO SPECIFICATIONS
T2X	VANDAL AND LIGATURE RESISTANT FRAMED MIRROR	REFER TO SPECIFICATIONS
T3	NOT USED	
T4	TOILET PAPER DISPENSER	REFER TO SPECIFICATIONS
T6	TOILET SEAT COVER DISPENSER	REFER TO SPECIFICATIONS
T7	SANITARY NAPKIN DISPOSAL	REFER TO SPECIFICATIONS
T8	PAPER TOWEL DISPENSER / WASTE RECEPTACLE	REFER TO SPECIFICATIONS
T9	GRAB BARS	REFER TO SPECIFICATIONS
T9X	VANDAL AND LIGATURE RESISTANT GRAB BAR	REFER TO SPECIFICATIONS

KEYNOTES

06.19	PAINTED WOOD TRIM
08.03	HOLLOW METAL FRAME
09.03	SS-1 SOLID SURFACE. SEE FINISH SCHEDULE.
09.04	SS-2 SOLID SURFACE COUNTERTOP. SEE FINISH SCHEDULE
09.06	WALL PAINT AT GWB WALL, TYP. SEE FINISH SCHEDULE
09.07	RESILIENT BASE, TYP. SEE FINISH SCHEDULE
09.10	REINSTALL SALVAGED, OR NEW TO MATCH EXISTING, MB-3 WAINSCOT.
09.13	CWT-1 BACKSPLASH. SEE FINISH SCHEDULE
09.15	CWT-1 WALL. SEE FINISH SCHEDULE.
09.16	WALL PAINT, SEE FINISH SCHEDULE
09.17	CTB-1 TILE BASE. SEE FINISH SCHEDULE.
09.18	PAINTED WALL WITH STORAGE CLOSET BEYOND. SEE FINISH SCHEDULE.
09.24	BASE AS SCHEDULED
09.31	PL-1 CABINET, SEE FINISH SCHEDULE
09.32	PL-2 CABINET, SEE FINISH SCHEDULE
09.35	REINSTALL SALVAGED MB-2 FOR DOOR SURROUND
09.39	MOSS WALL IN THIN INSET FRAME, SEE SPECIFICATIONS.
09.40	INSTALL SALVAGED COURTROOM MARBLE BASE, MB-1
09.45	ACOUSTICAL PANELS, SEE FINISH SCHEDULE.
10.06	ALUMINUM COUNTER SUPPORT BRACKETS, INSTALLED PER MFR RECOMMENDATION
12.04	FURNITURE BY OTHERS, NIC
14.01	ADA LIFT

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.8730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.3001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCYA
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

DATE:	ISSUE:	#
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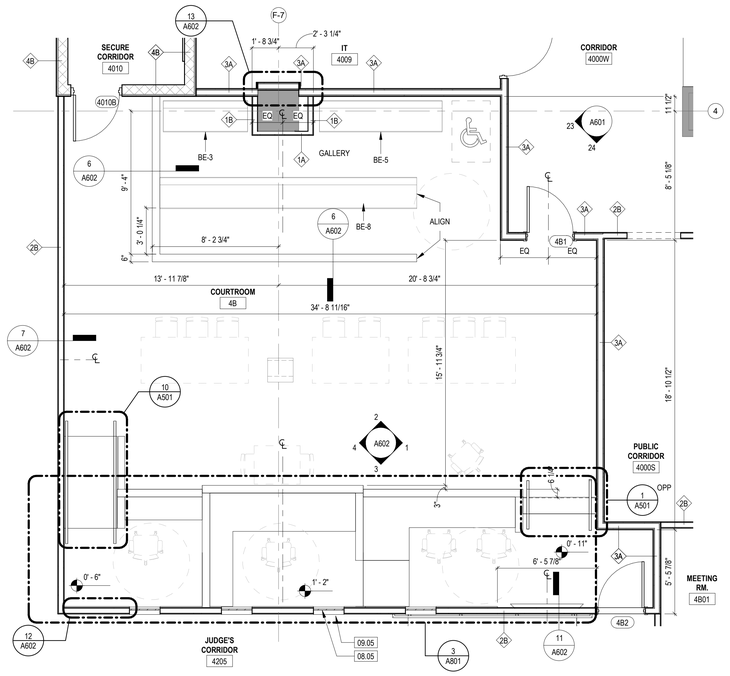
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1

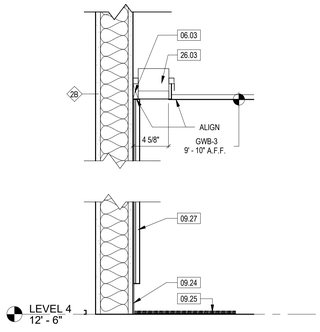
DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED

SHEET TITLE:
ENLARGED PLANS & INTERIOR ELEVATIONS

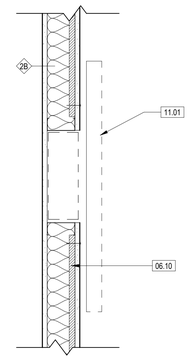
SHEET #
A601



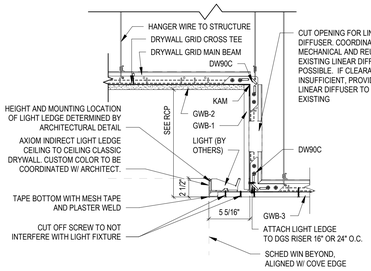
5 LEVEL 4 ENLARGED COURTROOM PLAN
A201 A602 SCALE: 1/4" = 1'-0"



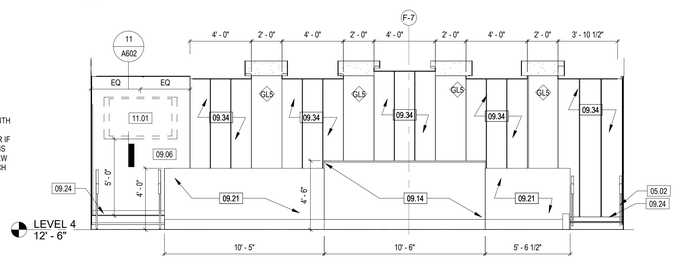
7 SECTION DETAIL AT ACCOUSTIC WOOD PANEL
A602 A602 SCALE: 1 1/2" = 1'-0"



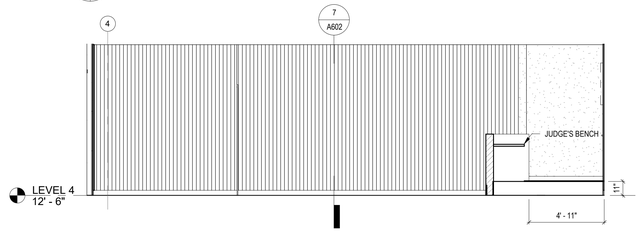
11 SECTION DETAIL AT TELEVISION
A501 A602 SCALE: 1 1/2" = 1'-0"



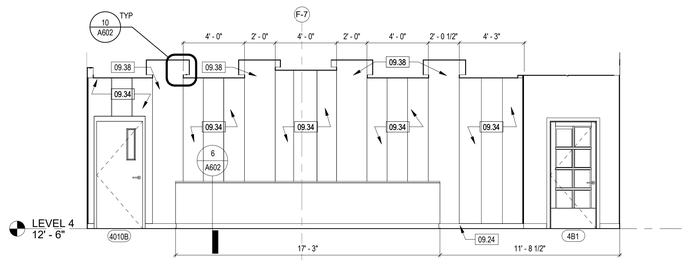
10 CEILING DETAIL - COURTROOM COVE
A221 A602 SCALE: 1 1/2" = 1'-0"



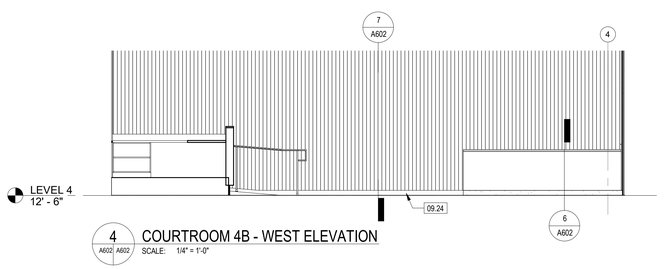
3 COURTROOM 4B - SOUTH ELEVATION
A501 A602 SCALE: 1/4" = 1'-0"



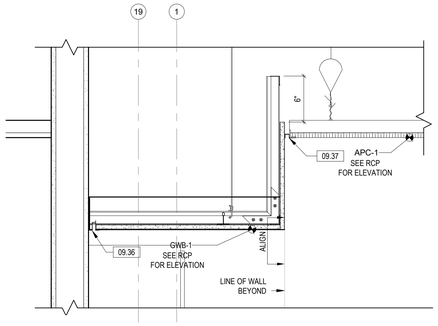
1 COURTHROOM 4B - EAST ELEVATION
A501 A602 SCALE: 1/4" = 1'-0"



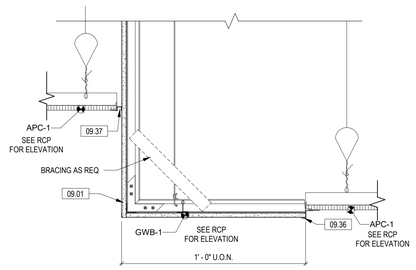
2 COURTROOM 4B - NORTH ELEVATION
A602 A602 SCALE: 1/4" = 1'-0"



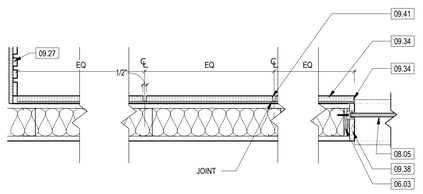
4 COURTROOM 4B - WEST ELEVATION
A602 A602 SCALE: 1/4" = 1'-0"



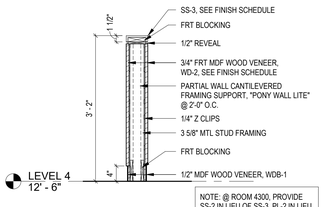
9 CEILING TRANSITION DETAIL @ GYP BULKHEAD
A221 A602 SCALE: 1 1/2" = 1'-0"



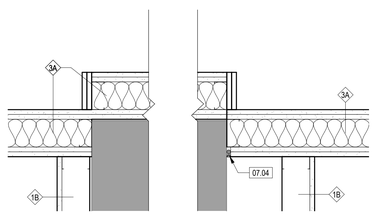
8 CEILING DETAIL @ JUDGE'S CORRIDOR
A221 A602 SCALE: 1 1/2" = 1'-0"



12 ENLARGED PLAN - TYPICAL ACOUSTICAL PANEL LAYOUT
A602 A602 SCALE: 1 1/2" = 1'-0"



6 SECTION DETAIL - COURTROOM LOW WALL
A601 A602 SCALE: 3/4" = 1'-0"



13 ENLARGED PLAN - COURTROOM COLUMN WALL
A602 A602 SCALE: 1 1/2" = 1'-0"

BENCH SCHEDULE

TYPE	DESCRIPTION	SIZE		
		WIDTH	DEPTH	HEIGHT
BE-1	WAITING ROOM BENCH	3' - 0"	2' - 0"	2' - 10"
BE-2	WAITING ROOM BENCH	4' - 0"	2' - 0"	2' - 10"
BE-3	COURTROOM BENCH	5' - 6"	2' - 0"	2' - 10"
BE-4	WAITING ROOM BENCH	7' - 6"	2' - 0"	2' - 10"
BE-5	COURTROOM BENCH	8' - 0"	2' - 0"	2' - 10"
BE-6	WAITING ROOM BENCH	7' - 11"	2' - 0"	2' - 10"
BE-7	WAITING ROOM BENCH	10' - 0"	2' - 0"	2' - 10"
BE-8	COURTROOM BENCH	16' - 9"	2' - 0"	2' - 10"
BE-9	WAITING ROOM BENCH	16' - 6"	2' - 0"	2' - 10"
BE-10	COURTROOM BENCH	18' - 6"	2' - 0"	2' - 10"

KEYNOTES

05.02	FLOOR MOUNTED HANDRAIL, SEE SPECIFICATIONS.
06.03	BLOCKING AS REQUIRED. ALL WOOD BLOCKING WITHIN A PARTITION CAVITY SHALL BE FIRE-RETARDANT TREATED (FRT) WOOD.
06.10	PROVIDE 36" X36" X 3/4" FRT PLYWOOD SUPPORT BEHIND GWB, CENTERED ON TV MONITOR
07.04	ACOUSTICAL SEALANT AND BACKER ROD
08.05	TRANSLUCENT, MONOLITHIC POLYCARBONATE GLAZING PANEL, SET IN "U" CHANNEL ALUM FRAME. SECURED TO FRAME W/ CONCEALED FASTENER
09.01	GWB BULKHEAD
09.05	SS-3 SOLID SURFACE WINDOW SILL, SEE FINISH SCHEDULE
09.06	WALL PAINT AT GWB WALL, TYP. SEE FINISH SCHEDULE
09.14	WD-2, WOOD VENEER OF MDF PANEL
09.21	SS-4 SOLID SURFACE, SEE FINISH SCHEDULE
09.24	BASE AS SCHEDULED
09.25	FINISH FLOORING, SEE FINISH PLANS AND SCHEDULE
09.27	WD-1, TYP. SEE FINISH SCHEDULE
09.34	METAL ANGLE EDGE TRIM, SEE SPECIFICATION
09.36	ALUMINUM CEILING TRIM TRANSISTION
09.37	1/2" X 1/2" WALL TRIM REVEAL
09.38	GYP. BD. ON METAL STUD FRAMING
09.41	METAL REVEAL, SEE SPECIFICATIONS.
11.01	WALL-MOUNTED TV, PROVIDE BLOCKING. SEE AV DRAWINGS.
26.03	PROVIDE NEW RECESSED PERIMETER GRAZE LIGHT FIXTURE. SEE LIGHT FIXTURES.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.5730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCYK
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

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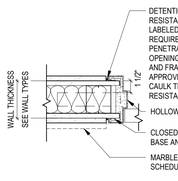
DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED

SHEET TITLE: **ENLARGED COURTROOM PLANS, ELEVATIONS & DETAILS**

SHEET # **A602**

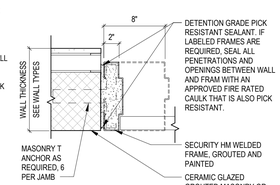
DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	PREVIOUS DOOR #	FUNCTION	HARDWARE	REMARKS
LEVEL 4																	
4A1	COURTROOM	3' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S3	04311A (E.STC)	STOREROOM	08B	
4A01	MEETING RM.	3' - 0"	7' - 0"	1 3/4"	E	WOOD	STAINED	1	HM	PAINTED	H1	J1	S3	04326A	STOREROOM	02	CARD READER
4A2	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S3	04327C (E.STC)	STOREROOM	08	
4A02	STORAGE	3' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04322	STOREROOM	08A	
4A3	COURTROOM	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	2	HM	PAINTED	H2	J2		04012B	DEADBOLT	SH-1A	
4A03A	CLERK CORRIDOR	3' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04321	STOREROOM	08	
4A03B	CLERK CORRIDOR	3' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04326B	STOREROOM	08	
4B1	COURTROOM	3' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S3	04327B (E.STC)	STOREROOM	08B	
4B01	MEETING RM.	3' - 0"	7' - 0"	1 3/4"	E	WOOD	STAINED	1	HM	PAINTED	H1	J1	S3	04317	STOREROOM	02	CARD READER
4B2	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S3	04311B (E.STC)	STOREROOM	08	
4000A	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	HM	PAINTED	1	HM	PAINTED	H1	J1	S1	NEW	STOREROOM	08A	
4000S1	PUBLIC CORRIDOR	3' - 6"	7' - 3"	0"	--	--	--	1A	STONE	MATCH EXST	12/A711	12/A711	S1	NEW	CASED OPENING		
4000S2	PUBLIC CORRIDOR	3' - 6"	7' - 3"	0"	--	--	--	1A	STONE	MATCH EXST	12/A711	12/A711	S1	NEW	CASED OPENING		
4006	COURTROOM	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04013	STOREROOM	08C	
4007A	WAITING RM.	3' - 6"	7' - 0"	0"	--	--	--	1A	STONE	MATCH EXST	12/A711	12/A711	S1	NEW	CASED OPENING		
4007B	WAITING RM.	4' - 0"	7' - 0"	0"	--	--	--	1A	STONE	MATCH EXST	12/A711	12/A711	S1	NEW	CASED OPENING		
4008A	WAITING RM.	3' - 6"	7' - 0"	0"	--	--	--	1A	STONE	MATCH EXST	12/A711	12/A711	S1	NEW	CASED OPENING		
4008B	WAITING RM.	4' - 0"	7' - 0"	0"	--	--	--	1A	STONE	MATCH EXST	12/A711	12/A711	S1	NEW	CASED OPENING		
4009	IT	3' - 0"	7' - 0"	1 3/4"	A	HM	PAINTED	1	HM	PAINTED	H1	J1	S1	NEW	STOREROOM	08C	
4010A	SECURE CORRIDOR	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	2	HM	PAINTED	H2	J2	S1	04337B	DEADBOLT	SH-1A	
4010B	SECURE CORRIDOR	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	2	HM	PAINTED	H2	J2	S3	04337A	DEADBOLT	SH-1A	
4011	HOLDING	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	3	HM	PAINTED	H3	J3	S1	04330	DEADBOLT	SH-1B	
4012	HOLDING	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	3	HM	PAINTED	H3	J3	S1	04331	DEADBOLT	SH-1B	
4013	HOLDING	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	3	HM	PAINTED	H3	J3	S1	04336	DEADBOLT	SH-1B	
4101	QUEING/ WAITING	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04218	PASSAGE	01	
4102T	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S2	EX4102	PRIVACY	04	
4103	HIGH DENSITY STORAGE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	NEW	STOREROOM	08D	
4103A	TELECOM	3' - 0"	7' - 0"	1 3/4"	A	HM	PAINTED	1	HM	PAINTED	H1	J1	S1	NEW	STOREROOM		
4105A	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04212	PASSAGE	01A	
4106	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04211	STOREROOM	08C	
4107	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04205	STOREROOM	4107	
4108	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04209	OFFICE	05A	
4109	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04207	OFFICE	05	
4110	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04205	OFFICE	05	
4111	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S4	NEW	PASSAGE	01	
4112	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04112B	OFFICE	05B	
4208	SECURE CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	HM	PAINTED	2	HM	PAINTED	H2	J2	S1	04335	DEADBOLT	SH-1A	
4209	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	2	HM	PAINTED	H2	J2	S4	NEW	DEADLATCH	SH-1A	
4301	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04112C	CLASSROOM	02	CARD READER
4303	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	C	WOOD	PAINTED	1	HM	PAINTED	H1	J1	S1	NEW	CLASSROOM	05A	
4304A	CLOSET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04109	PASSAGE	01A	
4305	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	NEW	OFFICE	05	
4306	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04106	OFFICE	05	
4307	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04104	OFFICE	05	
4308	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04103	OFFICE	05	
4309	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04100	OFFICE	05	
4310	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04207	OFFICE	05	
4311	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04101	OFFICE	05	
4312	OPEN SPACE	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04113	OFFICE	05	
4313	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04333	OFFICE	05	
4314	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04334	OFFICE	05	
4315T	WAITING	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S2	NEW	PRIVACY	04	
4316	WAITING	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S3	NEW STC	PASSAGE	01	
4317	WAITING	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S3	NEW STC	PASSAGE	01	
4318A	WAITING	3' - 0"	7' - 0"	1 3/4"	C	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	NEW	CLASSROOM	02	CARD READER
4318B	TOILET	3' - 0"	7' - 0"	1 3/4"	C	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	NEW	CLASSROOM	02	CARD READER
EX4ST1	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	EGRESS		EXISTING DOOR TO REMAIN
EX4ST2	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	EGRESS		EXISTING DOOR TO REMAIN
EX4ST4	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	EGRESS		EXISTING DOOR TO REMAIN, PAINT PER FINISH SCHEDULE.
EX4ST5	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	EGRESS		EXISTING DOOR TO REMAIN, PAINT PER FINISH SCHEDULE.
EX4001	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	PASSAGE		EXISTING DOOR TO REMAIN
EX4002	SECURE CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	HM	PAINTED	1	HM	PAINTED	H1	J1	S1	--	DEADBOLT		EXISTING DOOR TO REMAIN
EX4003	HOLDING	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	3	HM	PAINTED	H3	J3	S1	--	DEADBOLT		EXISTING DOOR TO REMAIN
EX4004	HOLDING	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	3	HM	PAINTED	H3	J3	S1	--	DEADBOLT		EXISTING DOOR TO REMAIN
EX4005	HOLDING	3' - 0"	7' - 0"	1 3/4"	B	HM	PAINTED	3	HM	PAINTED	H3	J3	S1	--	DEADBOLT		EXISTING DOOR TO REMAIN
EX4014	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	PASSAGE		EXISTING DOOR TO REMAIN
EX4100	QUEING/ WAITING	6' - 0"	7' - 0"	1 3/4"	D	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	CLASSROOM		EXISTING DOOR TO REMAIN
EX4105	TOILET	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	CLASSROOM		EXISTING DOOR TO REMAIN
EX4200	SECURE CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S4	--	DEADLATCH		EXISTING DOOR TO REMAIN
EX4200A	CONSULT	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	DEADBOLT		EXISTING DOOR TO REMAIN
EX4202	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	STOREROOM		EXISTING DOOR TO REMAIN, PAINT PER FINISH SCHEDULE.
EX4205T	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	PRIVACY		EXISTING DOOR TO REMAIN, PAINT PER FINISH SCHEDULE.
EX4206	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04339	OFFICE	05A	EXISTING DOOR TO REMAIN, PAINT PER FINISH SCHEDULE.
EX4207	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04343	OFFICE	05A	EXISTING DOOR TO REMAIN, PAINT PER FINISH SCHEDULE.
EX4300	WAITING	6' - 0"	7' - 0"	1 3/4"	C	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	--	CLASSROOM		EXISTING DOOR TO REMAIN
EX04305	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04305	OFFICE	05	EXISTING DOOR TO REMAIN, PAINT PER FINISH SCHEDULE.
EX04308	JUDGE'S CORRIDOR	3' - 0"	7' - 0"	1 3/4"	A	WOOD	STAINED	1	HM	PAINTED	H1	J1	S1	04308	OFFICE	05A	EXISTING DOOR TO REMAIN, PAINT PER FINISH SCHEDULE.



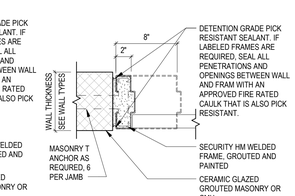
J1

WRAPPED FRAME AT METAL STUD WALL



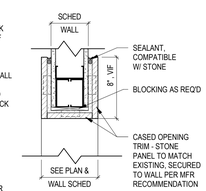
J2

WRAPPED FRAME AT EXISTING OR NEW MASONRY WALL



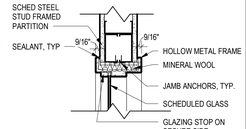
J3

WRAPPED FRAME AT EXISTING OR NEW MASONRY WALL



12 / A711 CASED OPENING HEAD/ JAMB FRAME DTL

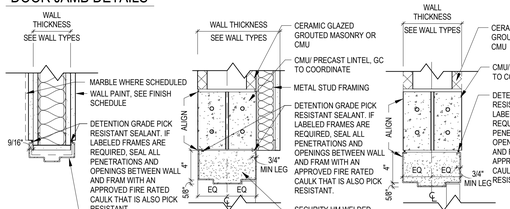
SCALE: 1 1/2" = 1'-0"



11 / A711 INT WINDOW HEAD/ JAMB/ SILL DTL

SCALE: 1 1/2" = 1'-0"

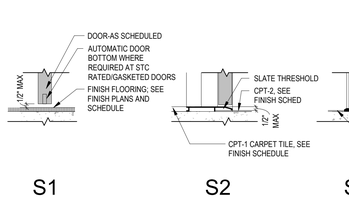
DOOR JAMB DETAILS



H1 WRAPPED METAL STUD

H2 WRAPPED CMU WITH METAL STUD

H3 WRAPPED FRAME AT EXISTING OR NEW MASONRY WALL



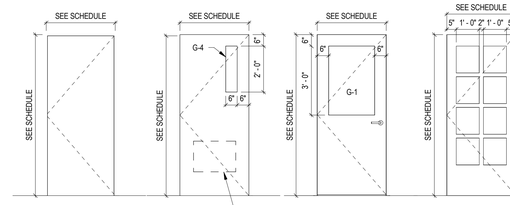
S1 INTERIOR: CONTINUOUS FINISH FLOOR

S2 INTERIOR: CT TO CARPET

S3 INTERIOR: TERRAZZO TO CPT

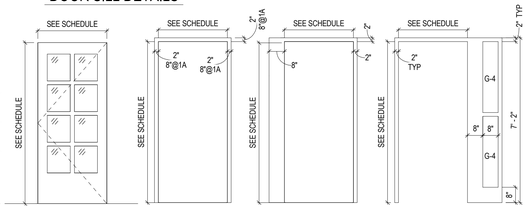
S4 INTERIOR: RESILIENT TILE TO CPT

DOOR HEAD DETAILS



A B C D (ETR)

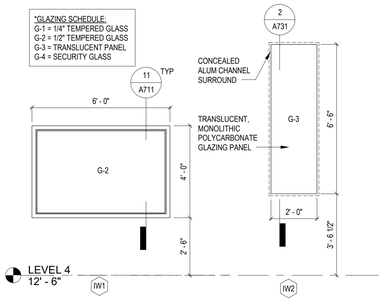
DOOR SILL DETAILS



E (ETR) 1/ 1A 2 3

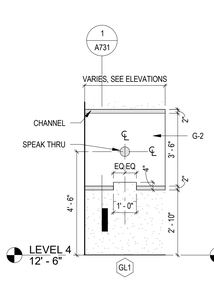
DOOR TYPES

*GLAZING SCHEDULE:
G-1 = 1/4" TEMPERED GLASS
G-2 = 1/2" TEMPERED GLASS
G-3 = TRANSLUCENT PANEL
G-4 = SECURITY GLASS

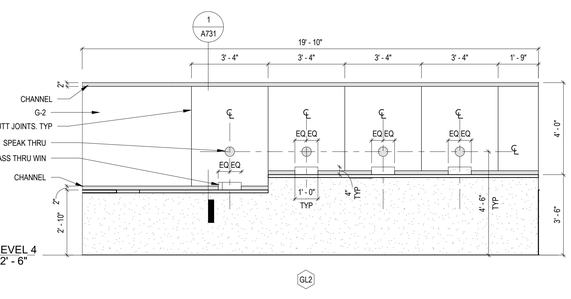


LEVEL 4 12' - 6" IW1 IW2

FRAME TYPES

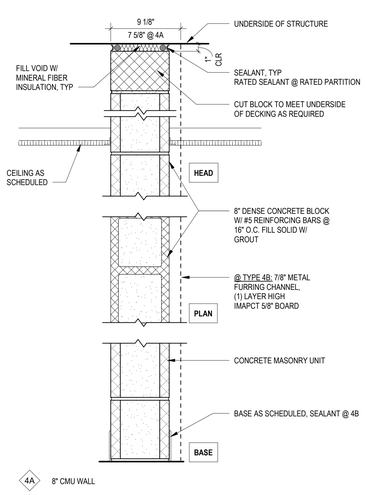


LEVEL 4 12' - 6" GL1



LEVEL 4 12' - 6" GL2

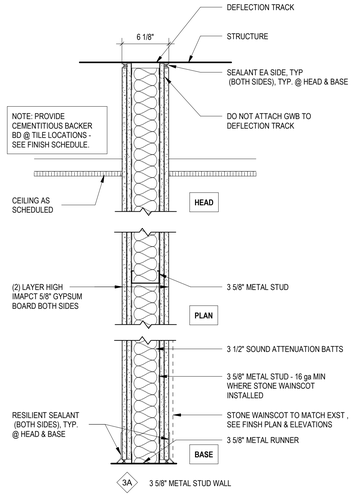
WINDOW ELEVATIONS



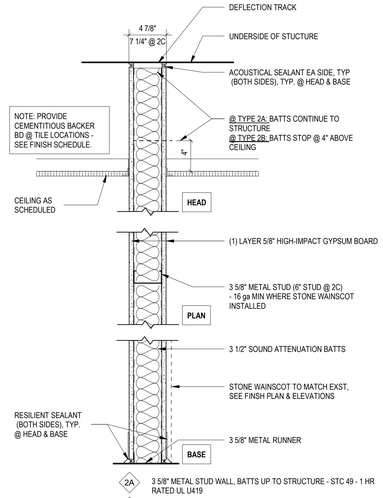
4A 8" CMU WALL

4B 8" CMU WALL W/ (1) LAYER 5/8" GYPSUM BOARD

INTERIOR PARTITION TYPES
1 1/2" = 1'-0"



3A 3 5/8" METAL STUD WALL

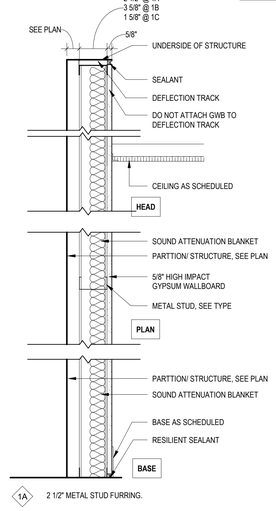


2A 3 5/8" METAL STUD WALL, BATTS UP TO STRUCTURE - STC 49 - 1 HR RATED UL U419

2B 3 5/8" METAL STUD WALL, BATTS 4" ABOVE CEILING

2C 6" METAL STUD WALL, BATTS 6" UP TO STRUCTURE - STC 49

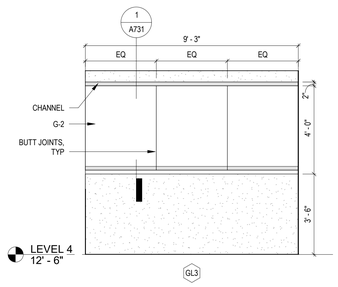
INTERIOR GLAZING TYPES



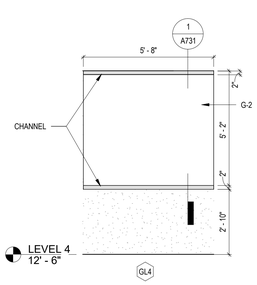
1A 2 1/2" METAL STUD FURRING.

1B 3 5/8" METAL STUD FURRING.

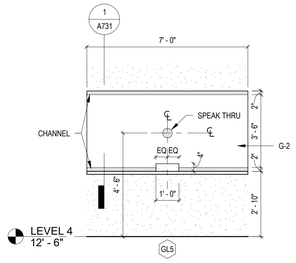
1C 1 5/8" METAL STUD FURRING.



LEVEL 4 12' - 6" GL3



LEVEL 4 12' - 6" GL4



LEVEL 4 12' - 6" GL5

MTFA
design + preservation
316 PENNSYLVANIA AVE, SE - SUITE 401
WASHINGTON, DC 20003
p. 202.996.3160 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.5730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.3001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCY
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

DATE:	ISSUE:	#
01/27/2023	DESIGN DEVELOPMENT	
07/14/2023	FINAL SUBMISSION	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2

DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED

SHEET TITLE:
DOOR AND PARTITION SCHEDULES, WINDOW TYPES, & DETAILS

SHEET #
A711

Hardware Group No. 01

For use on Door #(s):
4111 4316 4317 4101

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		605	IVE
1	EA	PASSAGE SET	ND10S RHO		605	SCH
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 01A

For use on Door #(s):
4105A 4304A

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		605	IVE
1	EA	PASSAGE SET	ND10S RHO		605	SCH
1	EA	OH STOP	90S		US3	GLY
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 02

For use on Door #(s):
4A01 4B01 4301 4318A 4318B

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		605	IVE
1	EA	POWER TRANSFER	EPT10 CON		695	VON
1	EA	EU STOREROOM LOCK	ND80TDEU LAT RX CON 12V/24V DC		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	SURFACE CLOSER	1450 REG OR PA AS REQ FC		696	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE
1	EA	MULTITECH READER	MTB15 (BY DIV. 28)		BLK	SCE
1	EA	DOOR POSITION SWITCH-DPDT	GRI 19512B (BY DIV. 28)		BLK	GEN
1	EA	POWER SUPPLY	(BY DIV 28)		LGR	SCE

Hardware Group No. 04

For use on Door #(s):
4315T 4102T

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		605	IVE
1	EA	PRIVACY LOCK W/INDICATOR	L9040 06A 09-544 L283-722		605	SCH
1	EA	PRIVACY EMERGENCY KEY TOOL	47285675			SCH
1	EA	SURFACE CLOSER	1450 REG OR PA AS REQ FC		696	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 05

For use on Door #(s):
4314 4109 4110 4305 4306 4307
4308 4309 4310 4311 4312 4313
EX04305

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		605	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50TD RHO		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 05A

For use on Door #(s):
4108 4303 EX4206 EX4207 EX04308

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		605	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50TD RHO		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 05B

For use on Door #(s):
4112

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		605	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50TD RHO		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 08

For use on Door #(s):
4A2 4A03A 4A03B 4B2

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		605	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	SURFACE CLOSER	4050A REG		696	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 08A

For use on Door #(s):
4A02 4000A 4103A

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		605	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	SURFACE CLOSER	1450 SCUSH STD		696	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 08B

For use on Door #(s):
4A1 4B1

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		605	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	SURFACE CLOSER	4050A SCUSH		696	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 08C

For use on Door #(s):
4006 4009 4106 4107

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		605	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	SURFACE CLOSER	1450 REG OR PA AS REQ FC		696	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

Hardware Group No. 08D

For use on Door #(s):
4103

Each to have:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP		605	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		605	SCH
1	EA	FSIC CORE	23-030 CKC OBV		606	SCH
1	EA	SURFACE CLOSER	4050A EDA		696	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS		605	IVE
1	EA	WALL STOP	WS406/407CCV		605	IVE
3	EA	SILENCER	SR 64/65 AS REQUIRED		GRY	IVE

END OF SECTION 087100

3.9 DETENTION DOOR HARDWARE SCHEDULE

A. General: Provide detention door hardware for each detention door to comply with requirements in this Section and with detention door hardware sets indicated below.

HARDWARE SET SH-1A – DETENTION DOOR – WITH CLOSER

DOOR #: 4A3, 4010A, 4010B, 4208, 4209

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	604FMCS FULL MORTISE HINGE	630	AIR
1	EA	ELECTRO-MECHANICAL LOCK	9724 KEYED BOTH SIDES, CYLINDER EXTENSIONS, SECURITY MOGUL CYLINDERS	MFR	AIR
1	EA	DOOR STRIKE	9724	630	AIR
1	EA	CONCEALED CLOSER – W/DOOR POSITION SWITCH	2215	689	LCN
2	EA	RAISED DOOR PULL	AIRTEQ 612	630	AIR
1	EA	SOUND GASKET SET	303 A S	CLR AN	PE
1	EA	SOUND GASKETING	S44BL	BLACK	PE
1	EA	AUTO DOOR BOTTOM	411APKL	MILL	PE
1	EA	WALL STOP	403T	626	RO
3	EA	SILENCERS	RM 608	S-Bk	RO

THESE LOCKS COMPLY WITH VCC 1010.1.9.11 AND HAS A SIGNAL FROM A CONSTANTLY MONITORED ATTENDED LOCATION.

HARDWARE SET SH-1B – DETENTION DOOR – WITHOUT CLOSER

DOOR #: 4011, 4012, 4013

Qty		Description	Catalog Number	Finish	Mfr
3	EA	HINGE	604FMCS FULL MORTISE HINGE	630	AIR
1	EA	ELECTRO-MECHANICAL LOCK	9724 KEYED BOTH SIDES, CYLINDER EXTENSIONS, SECURITY MOGUL CYLINDERS	MFR	AIR
1	EA	DOOR STRIKE	9724	630	AIR
1	EA	DOOR POSITION SWITCH	6200	689	AIR
1	EA	FOOD PASS	262	MFR	FS
2	EA	RAISED DOOR PULL	AIRTEQ 612	630	AIR
1	EA	SOUND GASKET SET	303 A S	CLR AN	PE
1	EA	SOUND GASKETING	S44BL	BLACK	PE
1	EA	AUTO DOOR BOTTOM	411APKL	MILL	PE
1	EA	WALL STOP	403T	626	RO
3	EA	SILENCERS	RM 608	S-Bk	RO

1. RO - Rockwood
2. AIR - Airteq
3. FS – Folger Southern
4. PE - Pemko
5. LCN – LCN Door

THESE LOCKS COMPLY WITH VCC 1010.1.9.11 AND HAS A SIGNAL FROM A CONSTANTLY MONITORED ATTENDED LOCATION.

END OF SECTION 119814

MTFA
architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.8730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.3001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCY
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

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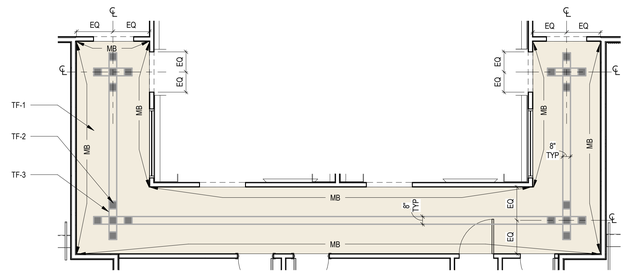
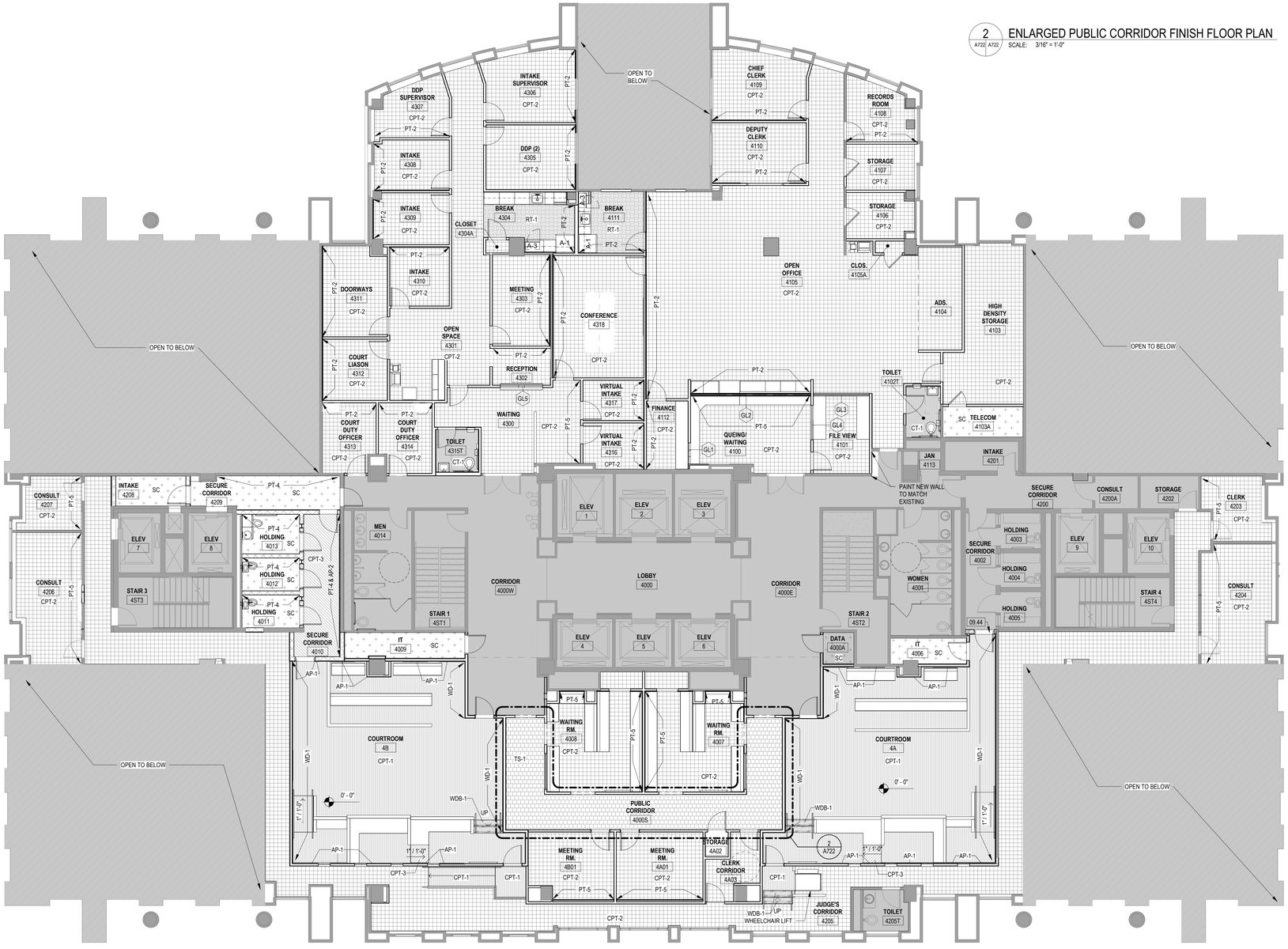
12/12/2023	PERMIT REVISION	2

DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED
SHEET TITLE: **DOOR HARDWARE**

SHEET # **A712**



2 A722 A722 ENLARGED PUBLIC CORRIDOR FINISH FLOOR PLAN
SCALE: 3/16" = 1'-0"



1 A501 A722 LEVEL 4 NEW WORK FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

KEYNOTES

09.44	PROVIDE RUBBER THRESHOLD

LEGEND (FINISH PLAN)

	CPT-1: CARPET TILE - FIELD 1
	CPT-2: CARPET TILE - FIELD 2
	CPT-3: CARPET TILE
	TS-1: TERRAZZO - TO MATCH EXISTING
	CT-1: CERAMIC FLOOR TILE
SC	SC: SEALED CONCRETE
	RT-1: RESILIENT TILE FLOORING
	WDB-1: WOOD FLOORING
MB	MB-1, MB-2 & MB-3 (@ DOOR)

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Arlington County

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12/12/2023	PERMIT REVISION	2

DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED
SHEET TITLE: **FINISH PLANS**

SHEET # **A722**

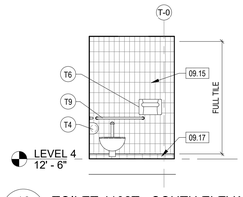
ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL				CEILING	REMARKS
				NORTH	SOUTH	EAST	WEST		
1	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
2	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
3	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4A	COURTROOM	CPT-1	WDB-1	AP-1	AP-1	WD-1	WD-1	APC-1/ GWB-2/ GWB-3	
4A01	MEETING RM.	CPT-2	RB-1	PT-1	PT-5	PT-1	PT-1	APC-1	
4A02	STORAGE	CPT-2	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4A03	CLERK CORRIDOR	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
4B	COURTROOM	CPT-1	WDB-1	AP-1	AP-1	WD-1	WD-1/ PT-1	APC-1/ GWB-2/ GWB-3	
4B01	MEETING RM.	CPT-2	RB-1	PT-1	PT-5	PT-1	PT-1	APC-1	
4ST1	STAIR 1	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4ST2	STAIR 2	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4ST3	STAIR 3	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4ST4	STAIR 4	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
5	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
6	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
7	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
8	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
9	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
10	ELEV	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4000	LOBBY	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4000A	DATA	SC	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4000E	CORRIDOR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4000S	PUBLIC CORRIDOR	TF-1	MB-1	PT-3 / MB-3	PT-3 / MB-3	PT-3 / MB-3	PT-3 / MB-3	GWB - 2	
4000W	CORRIDOR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4001	WOMEN	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4002	SECURE CORRIDOR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4003	HOLDING	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4004	HOLDING	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4005	HOLDING	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4006	IT	SC	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4007	WAITING RM.	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-5	APC-1	PT-5 IN NORTH NICHE
4008	WAITING RM.	CPT-2	RB-1	PT-1	PT-1	PT-5	PT-1	APC-1	PT-5 IN NORTH NICHE
4009	IT	SC	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4010	SECURE CORRIDOR	SC	X	PT-1	PT-1	AP-2 / PT-4	PT-1	SP	
4011	HOLDING	SC	X	PT-4	PT-1	PT-1	PT-1	SP	
4012	HOLDING	SC	X	PT-4	PT-1	PT-1	PT-1	SP	
4013	HOLDING	SC	X	PT-4	PT-1	PT-1	PT-1	SP	
4014	MEN	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4100	QUEING/ WAITING	CPT-2	RB-1	PT-5	PT-1	PT-1	PT-1	APC-1	
4101	FILE VIEW	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
4102T	TOILET	CT - 1	CTB - 1	CWT-1	CWT-1	CWT-1	CWT-1	GWB - 1	
4103	HIGH DENSITY STORAGE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
4103A	TELECOM	SC	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4104	ADS.	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
4105	OPEN OFFICE	CPT-2	RB-1	PT-1	PT-1 / PT-2	PT-1	PT-2	APC-1	
4105A	CLOS.	CPT-2	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4106	STORAGE	CPT-2	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4107	STORAGE	CPT-2	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4108	RECORDS ROOM	CPT-2	RB-1	PT-1	PT-2	PT-1	PT-1	APC-1	
4109	CHIEF CLERK	CPT-2	RB-1	PT-1	PT-2	PT-1	PT-1	APC-1	
4110	DEPUTY CLERK	CPT-2	RB-1	PT-1	PT-2	PT-1	PT-1	APC-1	
4111	BREAK	RT-1	RB-1	PT-1	PT-2	PT-1	PT-1 / CWT-1	APC-1	
4112	FINANCE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-2	APC-1	
4113	JAN	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4200	SECURE CORRIDOR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4200A	CONSULT	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4201	INTAKE	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4202	STORAGE	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4203	CLERK	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-5	APC-1	
4204	CONSULT	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-5	APC-1	
4205	JUDGE'S CORRIDOR	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
4205T	TOILET	ETR	ETR	ETR	ETR	ETR	ETR	ETR	NIC
4206	CONSULT	CPT-2	RB-1	PT-1	PT-1	PT-5	PT-1	APC-1	
4207	CONSULT	CPT-2	RB-1	PT-1	PT-1	PT-5	PT-1	APC-1	
4208	INTAKE	SC	X	PT-1	PT-1	PT-1	PT-1	SP	
4209	SECURE CORRIDOR	SC	X	PT-4	PT-1	PT-1	PT-1	SP	
4300	WAITING	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-5	APC-1	
4301	OPEN SPACE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
4302	RECEPTION	CPT-2	RB-1	PT-2	PT-1	PT-1	PT-1	APC-1	
4303	MEETING	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
4304	BREAK	RT-1	RB-1	PT-1 / CWT-1	PT-1 / CWT-1	PT-2	PT-1	APC-1	
4304A	CLOSET	RT-1	RB-1	PT-2	PT-2	PT-2	PT-2	APC-1	
4305	DDP (2)	CPT-2	RB-1	PT-1	PT-1	PT-2	PT-1	APC-1	
4306	INTAKE SUPERVISOR	CPT-2	RB-1	PT-1	PT-1	PT-2	PT-1	APC-1	
4307	DDP SUPERVISOR	CPT-2	RB-1	PT-1	PT-2	PT-1	PT-1	APC-1	
4308	INTAKE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-2	APC-1	
4309	INTAKE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-2	APC-1	
4310	INTAKE	CPT-2	RB-1	PT-2	PT-1	PT-1	PT-1	APC-1	
4311	DOORWAYS	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-2	APC-1	
4312	COURT LIASON	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-2	APC-1	
4313	COURT DUTY OFFICER	CPT-2	RB-1	PT-2	PT-1	PT-1	PT-1	APC-1	
4314	COURT DUTY OFFICER	CPT-2	RB-1	PT-2	PT-1	PT-1	PT-1	APC-1	
4315T	TOILET	CT - 1	CTB - 1	PT-1	CWT-1	CWT-1	CWT-1	GWB - 1	
4316	VIRTUAL INTAKE	CPT-2	RB-1	PT-1	PT-1	PT-2	PT-1	APC-1	
4317	VIRTUAL INTAKE	CPT-2	RB-1	PT-1	PT-1	PT-2	PT-1	APC-1	
4318	CONFERENCE	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-2	APC-1	

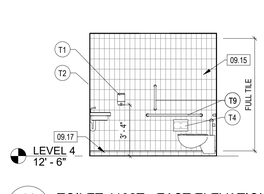
INTERIOR FINISH MATERIALS SCHEDULE

USE	DESIGNATION TYPE	MATERIAL DESCRIPTION	BASIS OF DESIGN MANUFACTURER	REF. PATTERN/ITEM #	COLOR	COMMENTS
FLOOR	CPT-1	CARPET TILE	INTERFACE	PLAY THE ANGLE	107188 SELENIUM	COURTROOM
	CPT-2	CARPET TILE	INTERFACE	ANGLE UP	107188 SELENIUM	OFFICES, MTG, ETC
	CPT-3	CARPET TILE	INTERFACE	ANGLE UP	107191 CARBON	RAMP B/T JUDGE & CLERK, HOLDING CELL CORRIDOR
	CT-1	CERAMIC FLOOR TILE	MOSA	GLOBAL COLLECTION 6X6	7543OV1515 SMALL SPECKLED GREY BEIGE	
	RT-1	RESILIENT TILE	NORAMENT	KIVO	5352 FLINT	
	SC	SEALED CONCRETE	-	-	-	
	TF-1	NEW EPOXY TERRAZZO FLOOR	-	-	TO MATCH EXISTING BEIGE	SEE A722 FOR DESIGN
	TF-2	NEW EPOXY TERRAZZO FLOOR			TO MATCH EXISTING DARK GRAY	SEE A722 FOR DESIGN
	TF-3	NEW EPOXY TERRAZZO FLOOR	--	--	TO MATCH EXISTING BRASS DIVIDER STRIP	1/4" BAND. SEE A722 FOR DESIGN WITH FIELD + 1 ACCENT COLOR
BASE	CTB-1	CERAMIC TILE BASE	MOSA	GLOBAL COLLECTION	7543OP815 SMALL SPECKLED GREY BEIGE	
	MB-1	MARBLE BASE	-	-	TO MATCH EXISTING	"TAIWAN VERDE"
	RB-1	RESILIENT BASE	JOHNSONITE		4"	4B GREY
	WDB - 1	WOOD BASE	-	-	CHERRY TO MATCH EXISTING	OR REINSTALL SALVAGED WOOD
	X	NO BASE				
WALLS	AP-1	ACOUSTICAL/WALL PANEL	POLYSORB	-	PURE CAMEL	
	AP-2	ACOUSTICAL WALL PANEL	POLYSORB	-	LIGHT CAMEL	
	AP-3	ACOUSTICAL WALL PANEL	POLYSORB	-	LIGHT BEIGE	
	AP-4	ACOUSTICAL WALL PANEL	POLYSORB	-	DARK BEIGE	
	CWT-1	CERAMIC WALL TILE	MOSA	CLASSIC TIDE 4"X8"	0603 SAGE	PROVIDE ON 3 WALLS IN TOILET 4315T
	MB-2	MARBLE WALL CASING	-	-	TO MATCH EXISTING	"TAIWAN VERDE"
	MB-3	MARBLE WAINSCOT	-	-	TO MATCH EXISTING	"EMPRESS ROSE"
	PT-1	PAINT	BENJAMIN MOORE	-	OC-45 SWISS COFFEE	GENERAL THROUGHOUT
	PT-2	PAINT	BENJAMIN MOORE	-	703 CATALINA BLUE	ACCENT - OFFICES
	PT-3	PAINT	BENJAMIN MOORE	-	TBD	MATCH EXISTING CORRIDOR PAINT
	PT-4	PAINT	BENJAMIN MOORE	-	AF-80 JUTE	ACCENT HOLDING CELLS
	PT-5	PAINT	BENJAMIN MOORE	-	HC-80 BLEEKER BEIGE	ACCENT MEETING & WAITING
	VW	VEGETATIVE WALL	GARDEN ON THE WALL	TURN-KEY, 2'-2" x 10'-2"	MOSS COMBINATION W/ FRAMED BOX	
	WD-1	WOOD	FRASCH	TULIP ON NATURAL MDF	PURE CAMEL PET BACKER	
	WD-2	WOOD	FRASCH	TULIP VENEER ON MDF		SLIGHTLY DARKER STAIN THAN WALL
CEILING	APC-1	ACOUSTICAL CEILING PANEL	ARMSTRONG	2'x2'	WHITE	CALLA - SQUARE TEGULAR W/ 9/16" GRID COURTROOM/OPEN OFFICE
	APC-2	ACOUSTICAL CEILING PANEL	ARMSTRONG	2'x2'	TO MATCH EXISTING COLOR/ TEXTURE	GRID SYSTEM TO MATCH EXISTING
	GWB-1	GYPSUM WALL BOARD BULKHEAD/CEILING	-	-	PAINT - BENJAMIN MOORE/ MURESCO CLG PAINT - WHITE	TOILET
	GWB-2	SEAMLESS ACOUSTICAL CEILING SYSTEM	ARMSTRONG	ACOUSTIBUILT	WHITE	ACOUSTIBUILT SEAMLESS ACOUSTICAL CEILING SYSTEM
	GWB-3	SEAMLESS ACOUSTICAL CEILING SYSTEM	ARMSTRONG	ACOUSTIBUILT	TO MATCH AP-1	ACOUSTIBUILT SEAMLESS ACOUSTICAL CEILING SYSTEM
	SP	SECURITY PLASTER	-	-	PAINT - BENJAMIN MOORE/ MURESCO CLG PAINT - WHITE	HOLDING CELL
MISCELLANEOUS	PL-1	PLASTIC LAMINATE	FORMICA	8906-58	DANISH MAPLE	BREAKROOM MILLWORK
	PL-2	PLASTIC LAMINATE	WILSONART	-	SILVER ALCHEMY	OFFICE MILLWORK
	PT-6	PAINT	BENJAMIN MOORE	-	CC-544 OVERCOAT	INTERIOR DOOR FRAME PAINT
	SS-1	SOLID SURFACE	WILSONART	-	MORNING ICE	BREAKROOM COUNTERTOPS
	SS-2	SOLID SURFACE	CORIAN	-	SILVER BIRCH	OFFICE COUNTERTOPS
	SS-3	SOLID SURFACE	CORIAN	-	LINEN	VERTICAL PART OF JUDGE'S BENCH
	SS-4	SOLID SURFACE	WILSONART	-	AVALANCHE MELANGE	COUNTERTOP OF JUDGE'S BENCH
	WV-1	WOOD VENEER	-	--	TO MATCH ARCHITECT'S SAMPLE	

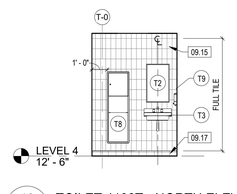
NOTE:
1. ALL COUNTER TOPS TO BE 25" WIDE, UNO
2. REUSE SALVAGED MARBLE (MB-1, MB-1 & MB-3) AT GREATEST EXTENT POSSIBLE THEN, IF NEEDED, PROVIDE NEW TO MATCH EXISTING



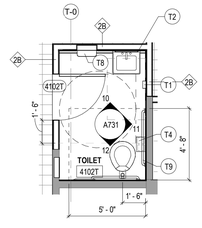
12 A731 A731 TOILET 4102T - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



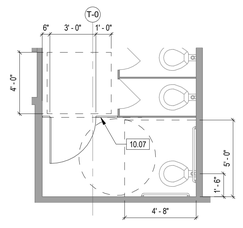
11 A731 A731 TOILET 4102T - EAST ELEVATION
SCALE: 1/4" = 1'-0"



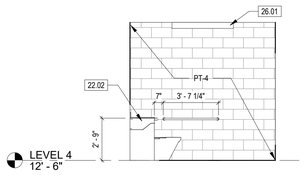
10 A731 A731 TOILET 4102T - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



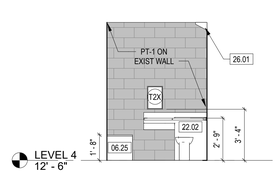
9 A201 A731 ENLARGED PLAN - TOILET 4102T
SCALE: 1/4" = 1'-0"



8 A201 A731 ENLARGED PLAN - RESTROOM ACCESSIBLE STALL
SCALE: 1/4" = 1'-0"



7 A731 A731 HOLDING 4013 - NORTH WALL
SCALE: 1/4" = 1'-0"



6 A731 A731 HOLDING 4013 - WEST WALL
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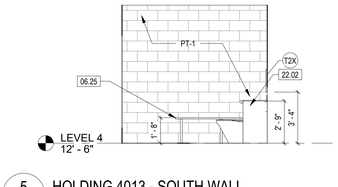

5 A201 A731 HOLDING 4013 - SOUTH WALL
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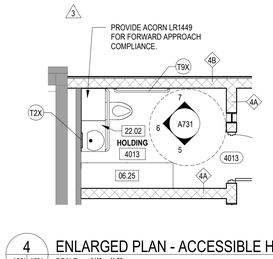

4 A201 A731 ENLARGED PLAN - ACCESSIBLE HOLDING CELL
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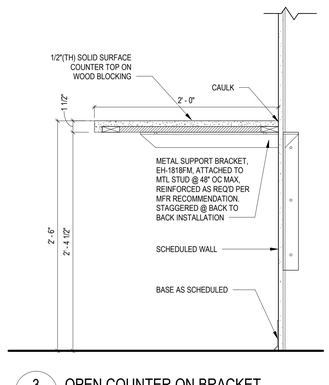
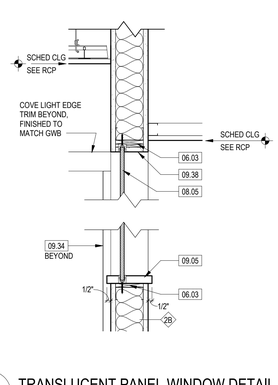
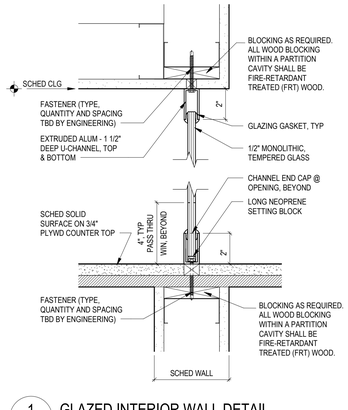


3 A601 A731 OPEN COUNTER ON BRACKET
SCALE: 1 1/2" = 1'-0"



2 A711 A731 TRANSLUCENT PANEL WINDOW DETAIL
SCALE: 1 1/2" = 1'-0"



1 A711 A731 GLAZED INTERIOR WALL DETAIL
SCALE: 3" = 1'-0"

LEGEND

(INTERIOR ELEVATIONS)

- ## — KEYNOTE (First number indicates specification division)
- B202b — DOOR NUMBER
- 1t — WINDOW / LOUVER TYPE
- NEW WORK
- EXISTING TO REMAIN
- **CBT-1**: CERAMIC WALL BASE - FIELD (3" x 6"), RUNNING BOND, SEE FINISH SCHEDULE
- **CWT-1** : CERAMIC WALL TILE - SEE FINISH SCHEDULE
- **MB-2**: MARBLE - SEE FINISH SCHEDULE
- **MB-3**: MARBLE - SEE FINISH SCHEDULE

TOILET ROOM ACCESSORIES SCHEDULE

MARK	DESCRIPTION	DIMENSIONS
T1	SOAP DISENSER	REFER TO SPECIFICATIONS
T2	ADA TILTED FRAMED MIRROR	REFER TO SPECIFICATIONS
T2X	VANDAL AND LIGATURE RESISTANT FRAMED MIRROR	REFER TO SPECIFICATIONS
T3	NOT USED	
T4	TOILET PAPER DISPENSER	REFER TO SPECIFICATIONS
T6	TOILET SEAT COVER DISPENSER	REFER TO SPECIFICATIONS
T7	SANITARY NAPKIN DISPOSAL	REFER TO SPECIFICATIONS
T8	PAPER TOWEL DISPENSER / WASTE RECEPTACLE	REFER TO SPECIFICATIONS
T9	GRAB BARS	REFER TO SPECIFICATIONS
T9X	VANDAL AND LIGATURE RESISTANT GRAB BAR	REFER TO SPECIFICATIONS

KEYNOTES

06.03	BLOCKING AS REQUIRED. ALL WOOD BLOCKING WITHIN A PARTITION CAVITY SHALL BE FIRE-RETARDANT TREATED (FRT) WOOD.
06.25	NEW ACCESSIBLE DETENTION BENCH. SEE SPECIFICATIONS.
08.05	TRANSLUCENT, MONOLITHIC POLYCARBONATE GLAZING PANEL, SET IN "U" CHANNEL ALUM FRAME. SECURED TO FRAME W/ CONCEALED FASTENER
09.05	SS-3 SOLID SURFACE WINDOW SILL. SEE FINISH SCHEDULE
09.15	CWT-1 WALL. SEE FINISH SCHEDULE.
09.17	CTB-1 TILE BASE. SEE FINISH SCHEDULE.
09.34	METAL ANGLE EDGE TRIM, SEE SPECIFICATION
09.38	GYP. BD. ON METAL STUD FRAMING
10.07	PROVIDE NEW TOILET PARTITION DOOR AND ASSOCIATED PANELS, AS SHOWN, TO MEET ANSI A117.1-2009 REQUIREMENTS.
22.02	ADA COMPLIANT VANDAL AND LIGATURE RESISTANT TOILET / SINK COMBO UNIT, SEE PLUMBING DRAWINGS
26.01	PROVIDE NEW VANDAL RESISTANT LIGHT FIXTURES IN THE SAME LOCATION AS EXISTING THAT WERE REMOVED. SEE LIGHT FIXTURE SCHEDULE.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.8730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.3001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCY
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

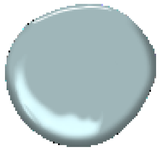
DATE:	ISSUE:	#
01/27/2023	DESIGN DEVELOPMENT	
07/14/2023	FINAL SUBMISSION	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2
12/28/2023	PERMIT REVISION	3

DRAWN: Author
CHECKED: Checker
SCALE: AS INDICATED

SHEET TITLE:
ROOM FINISH SCHEDULE AND INTERIOR DETAILS

SHEET #
A731

P-1

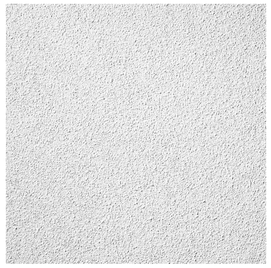


P-2

P-4

P-5

GWB-2

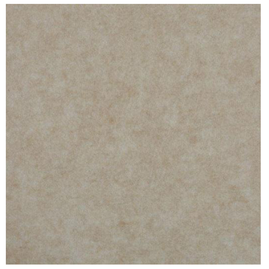


ACP-1

SS-1

SS-2

WD-1



AP-1

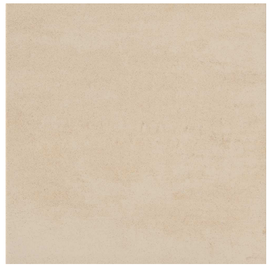
PL-1

PL-2

SS-3

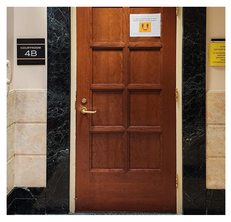
SS-4

CWT-1

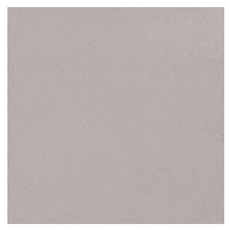


CWT-2

WDB-1



MB1 & MB2



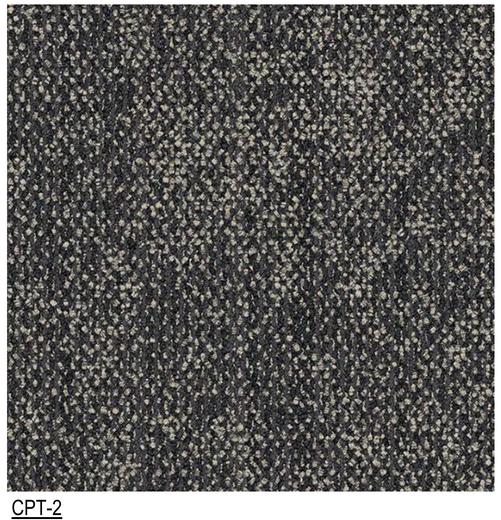
CTB-1

RB-1

SC

TF-1

CPT-1



CPT-2

RT-1

CT-1

MTFA
architecture

3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
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MEP / FP
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Codetta, LLC
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COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCYK
Lic No. 0401017642
ARCHITECT

PROJECT # 21085

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01/27/2023 DESIGN DEVELOPMENT

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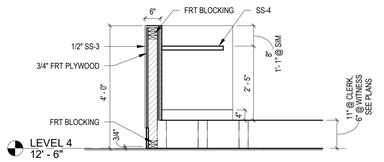
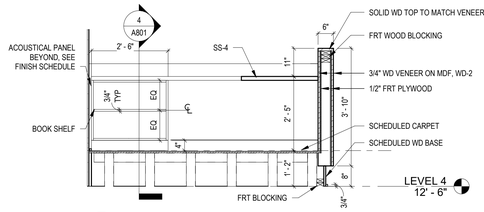
MATERIAL BOARD

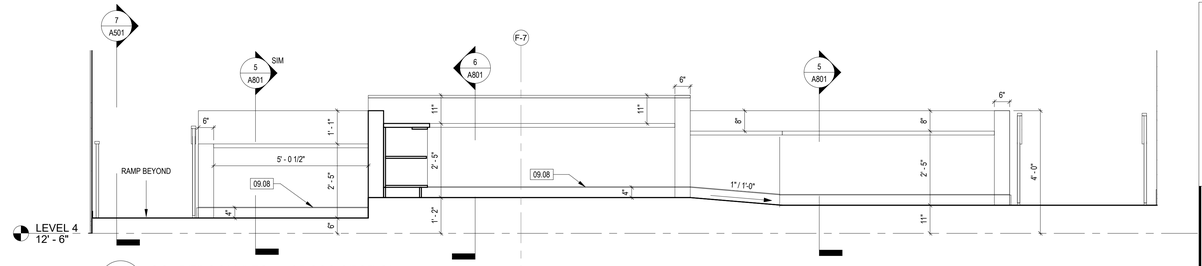
SHEET #
A732



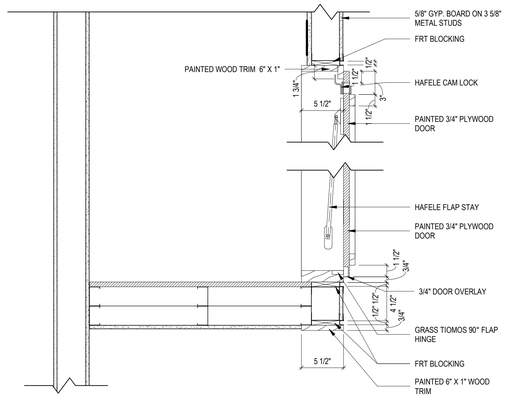
5 A801 A801 CLERK/WITNESS BENCH TYP SECTION DETAIL
SCALE: 1/2" = 1'-0"



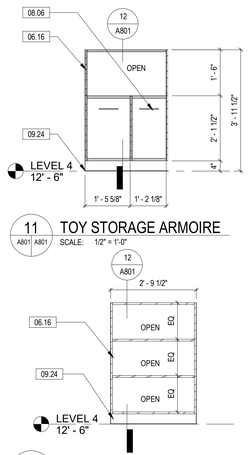
6 A801 A801 JUDGE'S BENCH SECTION DETAIL
SCALE: 1/2" = 1'-0"



4 A801 A801 COURTROOM DESK - CROSS SECTION
SCALE: 1/2" = 1'-0"

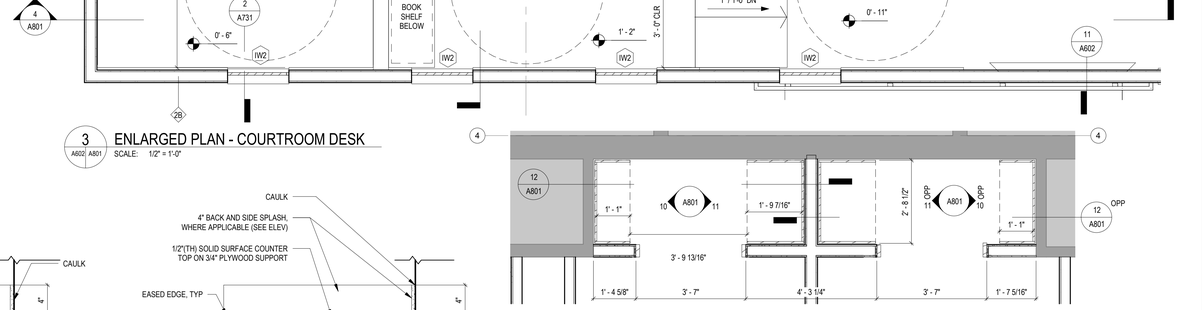


7 A601 A801 KIDS' CORNER DOOR DETAIL
SCALE: 1 1/2" = 1'-0"



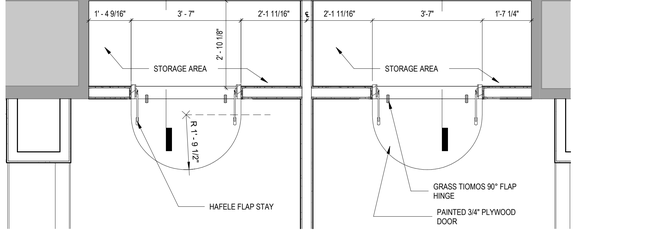
11 A601 A801 TOY STORAGE ARMOIRE
SCALE: 1/2" = 1'-0"

10 A601 A801 BOOKSHELF ELEVATION
SCALE: 1/2" = 1'-0"



3 A602 A801 ENLARGED PLAN - COURTROOM DESK
SCALE: 1/2" = 1'-0"

8 A201 A801 LEVEL 4 KIDS' CORNER ENLARGED PLAN
SCALE: 1/2" = 1'-0"



9 A201 A801 LEVEL 4 KIDS' CORNER ENLARGED PLAN STORAGE AREA
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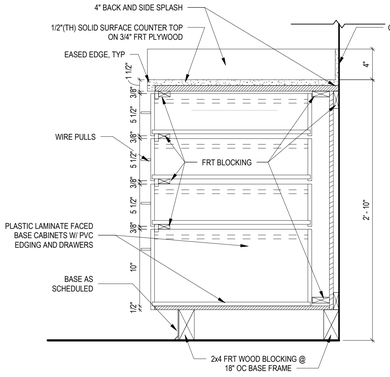
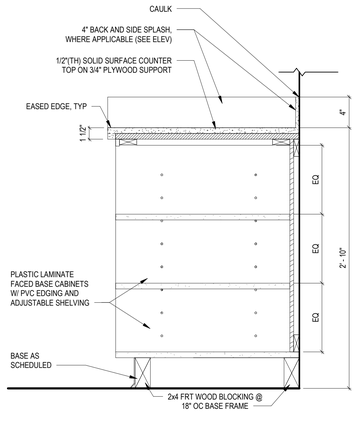
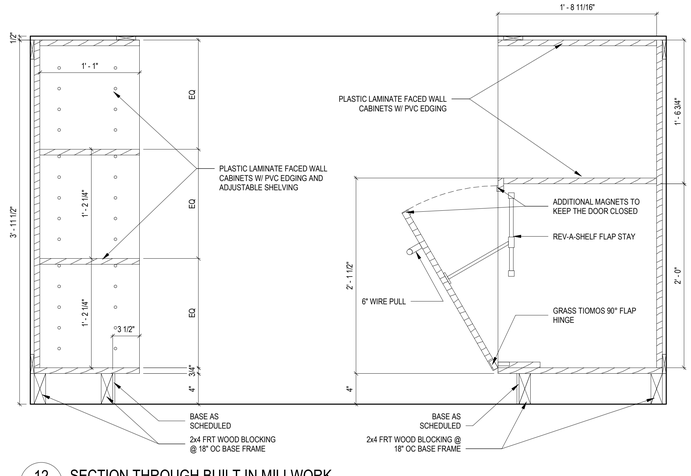


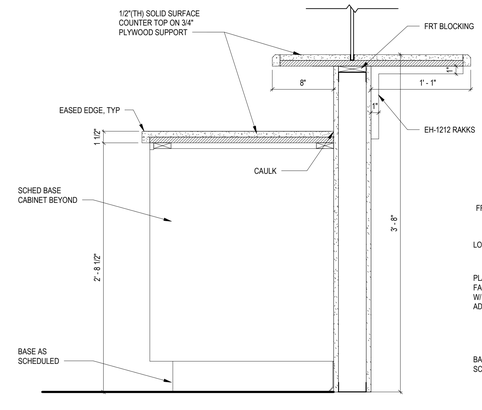
2 A601 A801 BASE DRAWERS CABINET
SCALE: 1 1/2" = 1'-0"



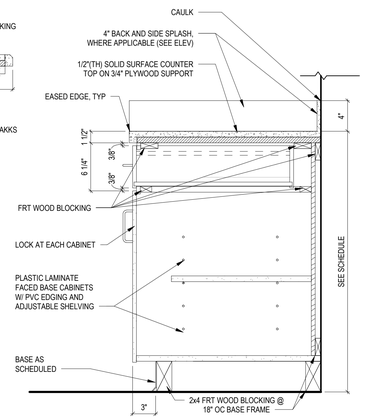
17 A601 A801 BASE CABINET/ MAIL BOXES
SCALE: 1 1/2" = 1'-0"



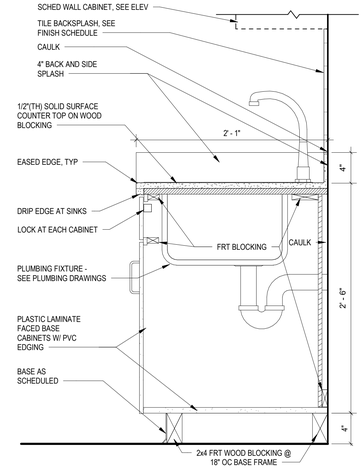
12 A601 A801 SECTION THROUGH BUILT IN MILLWORK
SCALE: 1 1/2" = 1'-0"



14 A601 A801 OPEN COUNTER/ SHELF
SCALE: 1 1/2" = 1'-0"



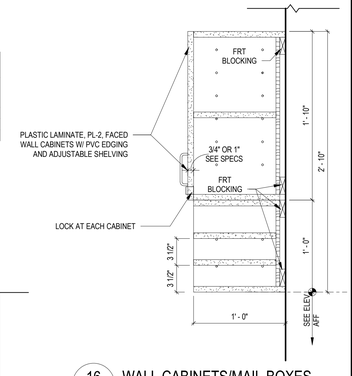
13 A601 A801 TYP BASE CABINET
SCALE: 1 1/2" = 1'-0"



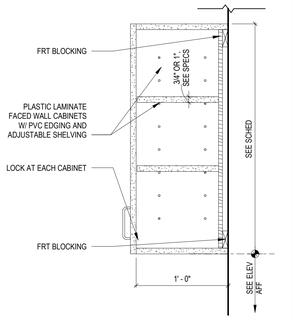
1 A601 A801 BREAK ROOM SINK
SCALE: 1 1/2" = 1'-0"

KEYNOTES

06.16	PLASTIC LAMINATE VENEER BASE CABINETS WITH 1/2" RADIUSED EDGES OVER MDF BACKING, SEE ELEVATIONS AND MATERIAL SCHEDULE FOR SPECIFIC COLOR LOCATIONS.
08.06	WIRE CABINET PULL
09.08	1/2" ALUMINUM REVEAL CHANNEL
09.24	BASE AS SCHEDULED



16 A601 A801 WALL CABINETS/MAIL BOXES
SCALE: 1 1/2" = 1'-0"



15 A601 A801 TYP WALL CABINET
SCALE: 1 1/2" = 1'-0"

MTFA
architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive
Suite 205, Reston, VA 20191
703.214.0557

Audiovisual/Security/Technology
Codetta, LLC
7906 Richfield Road
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Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
MEAGAN WARD JANCY
Lic No. 0401017642
ARCHITECT

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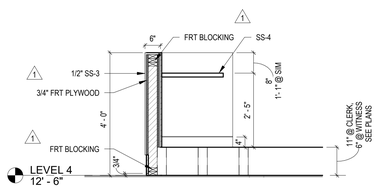
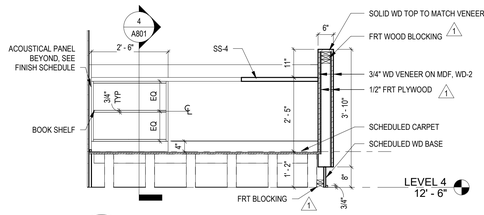
SHEET TITLE: **MILLWORK DETAILS**

SHEET # **A801**



5 A801 A801 CLERK/WITNESS BENCH TYP SECTION DETAIL
SCALE: 1/2" = 1'-0"



6 A801 A801 JUDGE'S BENCH SECTION DETAIL
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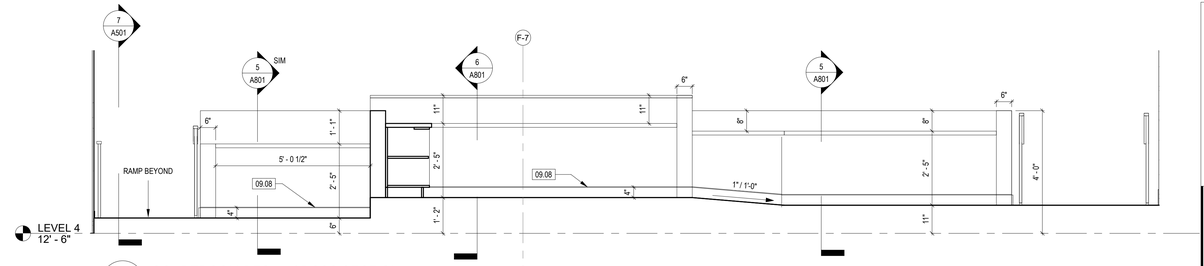

4 A801 A801 COURTROOM DESK - CROSS SECTION
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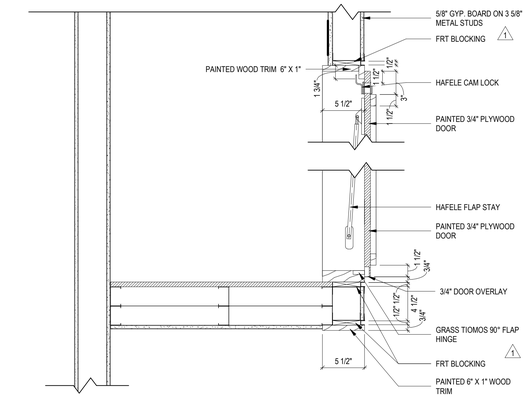
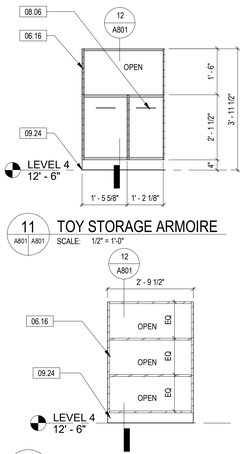
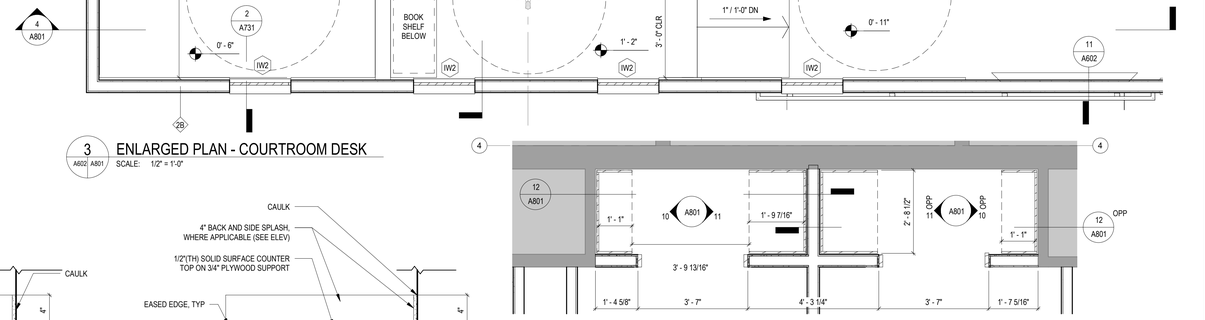


7 A601 A801 KIDS' CORNER DOOR DETAIL
SCALE: 1 1/2" = 1'-0"



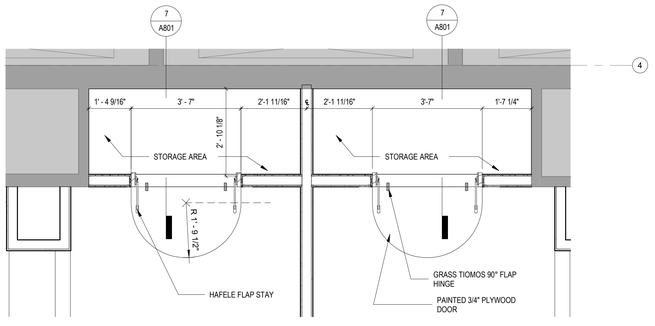
11 A801 A801 TOY STORAGE ARMOIRE
SCALE: 1/2" = 1'-0"

10 A801 A801 BOOKSHELF ELEVATION
SCALE: 1/2" = 1'-0"

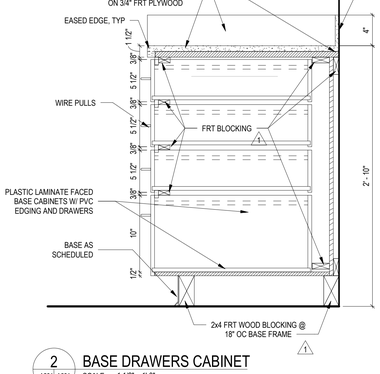


3 A602 A801 ENLARGED PLAN - COURTROOM DESK
SCALE: 1/2" = 1'-0"

8 A201 A801 LEVEL 4 KIDS' CORNER ENLARGED PLAN
SCALE: 1/2" = 1'-0"



9 A201 A801 LEVEL 4 KIDS' CORNER ENLARGED PLAN STORAGE AREA
SCALE: 1/2" = 1'-0"



2 A601 A801 BASE DRAWERS CABINET
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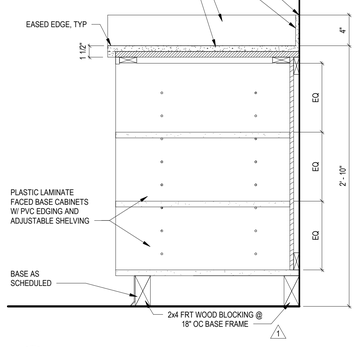

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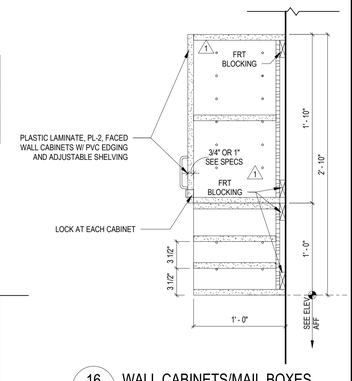

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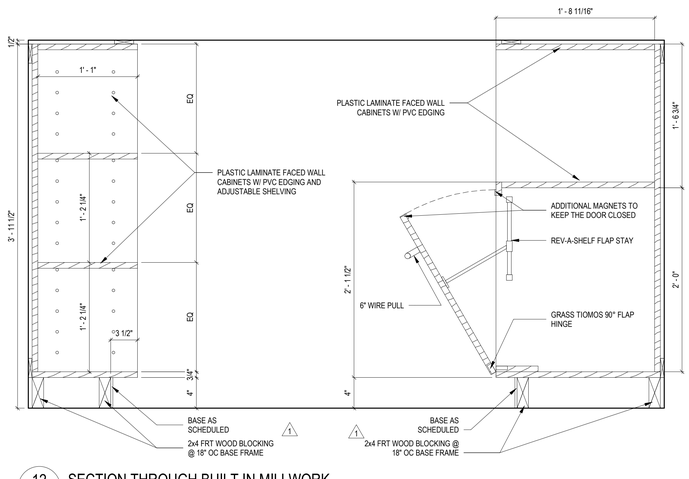

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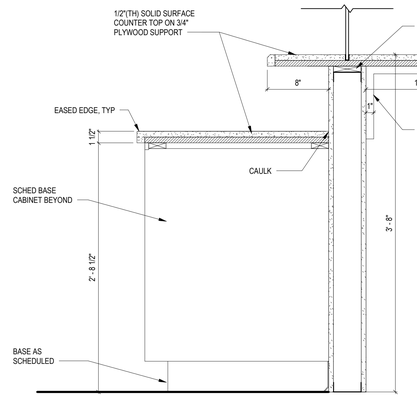

14 A601 A801 OPEN COUNTER/ SHELF
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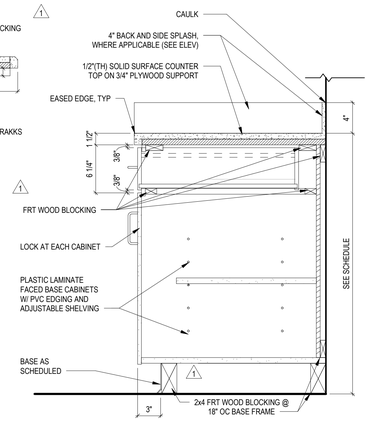

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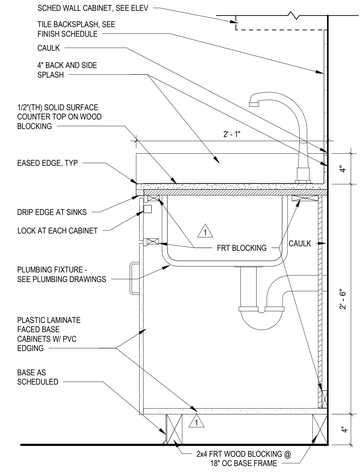

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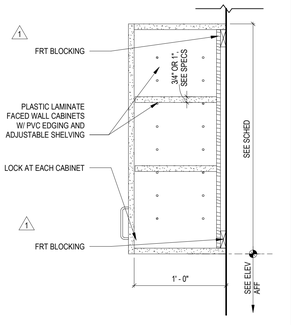

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KEYNOTES

06.16	PLASTIC LAMINATE VENEER BASE CABINETS WITH 1/2" RADIUSED EDGES OVER MDF BACKING, SEE ELEVATIONS AND MATERIAL SCHEDULE FOR SPECIFIC COLOR LOCATIONS.
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SHEET TITLE: **MILLWORK DETAILS**

SHEET # **A801**

GENERAL NOTES

1. SCOPE OF WORK: FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES AND SKILLED SUPERVISION NECESSARY TO PROVIDE, INSTALL, TEST AND ADJUST ALL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS TO BE COMPLETE, OPERATIONAL AND READY FOR USE, AS INDICATED IN THESE DRAWINGS AND/OR SPECIFICATIONS.

2. PERMITS, LICENSES AND FEES: PAY FOR ALL REQUIRED FEES AND OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR THE LEGAL REMOVAL AND INSTALLATION OF THE WORK.

3. APPLICABLE CODES AND STANDARDS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND ANY REGULATIONS EFFECTIVE IN THE PROJECT JURISDICTION. ALL CODE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR RESOLUTION. THE APPLICABLE CODES AND STANDARDS ON THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
   A. VIRGINIA CONSTRUCTION CODE (VCC 2018)
   B. INTERNATIONAL BUILDING CODE (IBC 2018)
   C. INTERNATIONAL MECHANICAL CODE (IMC 2018)
   D. INTERNATIONAL PLUMBING CODE (IPC 2018)
   E. NFPA 70 - NATIONAL ELECTRICAL CODE (NEC 2017)
   F. INTERNATIONAL FUEL GAS CODE (IFGC 2018)
   G. INTERNATIONAL ENERGY CONSERVATION CODE (IECC 2018)
   H. VIRGINIA STATEWIDE FIRE PREVENTION CODE (SFPC 2018)

4. DRAWING ACCURACY: THE LOCATION AND SIZES OF EXISTING EQUIPMENT, PIPING, OUTLETS, FIXTURES AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED AT THE PROJECT SITE. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED. WHEN INDICATED, ALL WORK SHALL BE PHYSICALLY LOCATED IN ACCORDANCE WITH THE ANNOTATED DIMENSIONS ON THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

5. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF THE CONTRACT. THE DESIGN DRAWINGS ARE NOT TO BE CONSIDERED A SUBSTITUTION TO THE SHOP DRAWINGS. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW, TO COMPLETE THE INTENT OF THE CONTRACT. THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR ADJUSTMENTS/CHANGES IN LOCATIONS AND ARRANGEMENTS WHEN REQUIRED BY THE JOB DEVELOPMENT WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

6. SITE VISIT: THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS, EQUIPMENT, PIPING, WIRING, CONSTRUCTION, FINISHES, AND STRUCTURE PRIOR TO THE COMMENCEMENT OF WORK. WHEN ANY DISCREPANCY OR CONFLICT IS DETECTED AT THE PROJECT SITE, THE OWNER REPRESENTATIVE, AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY PRIOR TO COMMENCING OF THE WORK. BEFORE STARTING ANY WORK, CONTRACTOR SHALL CONFIRM ALL EXISTING TO REMAIN EQUIPMENT WITH MOVING PARTS (AIR HANDLING UNITS, FANS, PUMPS, ETC. AS APPLICABLE) ARE OPERATING PROPERLY OR, IF NOT SHALL SUMMARIZE DEFICIENCIES. SIMILARLY AS CONTRACTOR WORKS THROUGHOUT THE BUILDING HE SHALL NOTE ANY APPARENT DEFICIENCIES OF EXISTING WORK TO REMAIN THAT WOULD RESULT IN ANY INDICTED AIR OR WATER FLOWS NOT CAPABLE OF MEETING NEWLY STATED AIR OR WATER FLOW VALUES.

7. COORDINATION: COORDINATE AND SEQUENCE THE WORK OF ALL DIVISIONS AND TRADES PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK AND RACEWAYS. COORDINATE THE LOCATION OF ALL NEW EQUIPMENT, DUCTWORK, PLUMBING FIXTURES, AND DEVICES WITH THE BUILDING STRUCTURE AND NEW EQUIPMENT BEFORE FABRICATION. THE INSTALLATION SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL CONFORM TO THE LATEST TRADE PRACTICES. REFER TO THE ARCHITECTURAL DRAWINGS TO VERIFY THE EXACT LOCATION OF THE EQUIPMENT AND/OR FIXTURES. MAKE THE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COMPLETE AND COORDINATED INSTALLATION.

8. MOUNTING HEIGHTS: COORDINATE THE MOUNTING HEIGHTS OF DEVICES TO BE LOCATED ON FINISH WALLS TO PROVIDE A CLEAN AND SYMMETRICAL APPEARANCE. REFER TO THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR HEIGHTS AND LOCATIONS OF EQUIPMENT. DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO THE CENTERLINE OF THE EQUIPMENT. COMPLY WITH THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT (ADA).

9. MATERIALS/SUBMITTALS/SUBSTITUTIONS: MANUFACTURERS AND CATALOGUE NUMBERS ARE USED HEREIN STRICTLY AS A REFERENCE. THEY REPRESENT THE TYPE, SIZE, CONSTRUCTION, PEFORMANCE, AND LEVEL OF QUALITY REQUIRED. EQUIPMENT FROM OTHER MANUFACTURERS (SUBSTITUTIONS) THAT MATCH OR SURPASS THE CHARACTERISTICS OF THOSE REFERENCED ON THE DRAWINGS WILL BE ACCEPTABLE, SUBJECT TO WRITTEN APPROVAL BY THE OWNER REPRESENTATIVE AND THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A SUBSTITUTION REQUEST ALONG WITH A COMPARISON TABLE LISTING THE CAPACITIES AND FEATURES OF THE BASIS OF DESIGN EQUIPMENT AND THOSE OF THE PROPOSED SUBSTITUTION EQUIPMENT/DEVICE FOR REVIEW AND APPROVAL.

10. BUILDING SERVICE INTERRUPTION: THE CONTRACTOR SHALL NOTIFY THE OWNER REPRESENTATIVES, AND THE ARCHITECT A MINIMUM OF 14 CALENDAR DAYS IN ADVANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR THE PROJECT REQUIREMENTS LISTED ON THESE DRAWINGS, AND SHALL OBTAIN WRITTEN AUTHORIZATION TO PROCEED. A MINIMUM OF 7 DAYS PRIOR TO THE INTERRUPTION OF ANY BUILDING SERVICE. THE CONTRACTOR SHALL COORDINATE THE TIME AND DURATION OF THE SERVICE INTERRUPTION WITH THE OWNER, AND ARCHITECT. SERVICES THAT ARE PARTIALLY REMOVED SHALL BE CAPPED, VALVED OR TEMPORARILY BYPASSED, SO THAT THE OCCUPIED PORTION CAN REMAIN IN OPERATION WHILE THE NEW WORK IS BEING INSTALLED.

11. CLEANING & MATERIAL DISPOSITION: CLEAR ALL DEBRIS DAILY FROM THE AREA OF WORK AND LEAVE THE SITE IN CLEAN CONDITION. CLEAN ALL EQUIPMENT ENCLOSURES, INSIDE AND OUTSIDE. ALL DEMOLISHED EQUIPMENT AND DEBRIS NOT TO BE REUSED OR SALVAGED SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF, IN ACCORDANCE WITH APPLICABLE REGULATIONS.

12. CUTTING & PATCHING: PERFORM CUTTING AND PATCHING AS NECESSARY FOR THE INSTALLATION OF THIS WORK. SEAL UNUSED PENETRATIONS RESULTING FROM DEMOLITION FOR THIS WORK. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER TO MINIMIZE DAMAGE TO ADJACENT EQUIPMENT, PIPING, DUCTWORK, WIRING, FIXTURES, CONSTRUCTION, FINISHES AND STRUCTURE. RESTORE SURFACES TO MATCH THE EXISTING ADJACENT FINISHES AND CONDITIONS. REFER TO THE PROJECT ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CUTTING & PATCHING REQUIREMENTS.

13. CONCEALED COMPONENTS: PROVIDE ACCESS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRED PERIODIC ACCESS. COORDINATE THE SIZE AND LOCATION OF ACCESS PANELS AND LABELS WITH THE ARCHITECTURAL DRAWINGS AND WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND/OR REQUIREMENTS.

14. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHEN MAJOR CONFLICTS ARE APPARENT, THE OWNER'S REPRESENTATIVE AND ARCHITECT SHALL BE ADVISED / NOTIFIED IMMEDIATELY, AND THE AFFECTED WORK SHALL NOT INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED.

15. INSTALLATION OF NEW WORK: THE INSTALLATION OF EQUIPMENT AND MATERIALS SHALL ADHERE TO THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. ALL SERVICE AND CODE REQUIRED CLEARANCES SHALL BE MAINTAINED, WHETHER INDICATED ON THE DRAWINGS OR NOT. THE INSTALLATION OF EQUIPMENT, DUCTWORK, PIPING, FIXTURES, ETC. SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER, AND SHALL CONFORM TO THE LATEST TRADE PRACTICES. REFER TO THE ARCHITECTURAL DRAWINGS TO VERIFY THE EXACT LOCATION OF EQUIPMENT, FIXTURES, ETC. COORDINATE THE DUCTWORK AND PIPING INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO FABRICATION. MAKE THE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COORDINATED AND COMPLETELY FUNCTIONAL INSTALLATION.

16. PLENUM SPACES: ALL MECHANICAL, PLUMBING AND/OR ELECTRICAL EQUIPMENT, PIPING, INSULATION, WIRING, ETC. INSTALLED IN ACTIVE PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY RATINGS.

17. COORDINATION DRAWINGS: PROVIDE COORDINATION DRAWINGS COVERING THE AREAS OF WORK, INDICATING ALL FLOOR SLAB PENETRATIONS, CONNECTIONS TO FIXTURES, AND TO EQUIPMENT (AND KITCHEN EQUIPMENT). THE COORDINATED DRAWINGS SHALL INCLUDE BUT NOT BE LIMITED TO DUCTWORK, HVAC PIPING, DOMESTIC AND SANITARY PIPING, VENT, STORM AND GAS PIPING, MAJOR ELECTRICAL CONDUITS AND JUNCTION BOXES, AS APPLICABLE. SUBMIT 1/4 SCALE COORDINATED DRAWINGS FOR THE ENGINEER'S REVIEW AND APPROVAL.

18. AS-BUILT DRAWINGS: PROVIDE AS-BUILT RED-LINED DRAWINGS AT THE COMPLETION OF THE PROJECT FOR THE ENGINEER'S REVIEW AND FOR THE RECORD. INDICATE MAJOR CHANGES AND/OR ADJUSTMENTS TO THE EQUIPMENT AND/OR ANCILLARY DEVICE LOCATIONS.

19. HAZARDOUS MATERIALS: HAZARDOUS MATERIALS ARE NOT ANTICIPATED ON THIS PROJECT. WHERE HAZARDOUS MATERIALS SUCH AS ACMs, PCBs, OR LEAD ARE ENCOUNTERED, THE CONTRACTOR SHALL CEASE DEMOLITION WORK AND NOTIFY THE OWNER, ARCHITECT AND ENGINEER AT ONCE.

20. VALVES AND ACCESS PANELS: INSTALL ALL VALVES SUCH THAT THEY ARE ACCESSIBLE THROUGH ACCESS PANELS AS NEEDED. COORDINATE THE SIZE AND THE LOCATION OF ACCESS PANELS WITH THE ARCHITECTURAL DRAWINGS. 12"X12" MINIMUM OR AS REQUIRED BY THE EQUIPMENT TO BE ACCESSED.

21. DEMOLITION WORK/DEMOLITION DRAWINGS: HATCHING AND NOTES ON THE DEMOLITION DRAWINGS INDICATE EXTENT OF DEMOLITION. ALL WORK THAT DOES NOT HAVE NOTE(S) STATING IT TO BE REMOVED AND/OR DOES NOT HAVE DEMOLITION HATCHING THROUGH IT IS EXISTING WORK TO REMAIN.

⚠ 22. AIR LEAKS: CONTRACTOR SHALL PRE-TAB THE EXISTING AIR DISTRIBUTION TO IDENTIFY ANY POSSIBLE LEAKS.

HVAC SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER ARROWS DENOTE AIR FLOW
	ROUND DIFFUSER WITH FLEXIBLE DUCT CONNECTION
RG	RETURN/EXHAUST GRILLE
	RETURN/EXHAUST GRILLE
	SIDEWALL DIFFUSER
A" X B"	RECTANGULAR DUCT SIZE IN INCHES (H X W)
X"ø	ROUND DUCT SIZE IN INCHES (DIAMETER)
	SUPPLY ELBOW TURNED UP
	SUPPLY ELBOW TURNED DOWN
	RETURN ELBOW TURNED UP
	RETURN ELBOW TURNED DOWN
	EXHAUST ELBOW TURNED DOWN
	ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
	RECTANGULAR DUCT TRANSITION
	RECTANGULAR TO ROUND DUCT TRANSITION
BD	BACKDRAFT DAMPER
FD	FIRE DAMPER
M	MOTORIZED DAMPER
SD	SMOKE DAMPER
	VOLUME DAMPER
	FLEXIBLE DUCT, 5' MAX LENGTH
C	CARBON DIOXIDE SENSOR
SD	DUCT SMOKE DETECTOR
T	THERMOSTAT
H	HUMIDISTAT
A	EMERGENCY AIR SHUT OFF SWITCHES, ATFP
OS	OCCUPANCY SENSORS
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CD	CONDENSATE DRAIN
	EXISTING WORK
	DEMOLITION WORK
	NEW WORK

CONTROLS SYMBOLS

	THERMOSTAT WIRING
	CONTROL LOOP
X	NETWORK SWITCH

GENERAL SYMBOLS

	CONNECTION POINT NEW TO EXISTING
	END OF DEMOLITION
1	KEYNOTE
	REMOVE EQUIPMENT AND DUCTWORK
1 XXX	SECTION VIEW. NUMBER DENOTES SECTION NUMBER AND X DENOTES DRAWING NUMBER
WSHP - XXX	WATER SOURCE HEAT PUMP
	PRESSURE GAUGE
	CHECK VALVE
	STRAINER
	BUTTERFLY VALVE
	DIRECTION OF AIR FLOW
	BALANCING VALVE (AT PUMP)
	CONTROL VALVE
	TEMPERATURE GAGE

GENERAL SYMBOLS

	PUMP
	GATE VALVE
	CONCENTRIC REDUCER
	UNION
	DIRECTION OF FLOW IN PIPE
	PIPE TURNED DOWN
	PIPE TURNED UP
	PIPE ANCHOR
	DIRECTION OF PIPE PITCH (DOWN)
	GUIDE

ABBREVIATIONS

A	AMPER
ACU	AIR CONDITIONING UNIT
ACH	AIR CHANGE PER HOUR
ADJ	ADJACENT / ADJOINING / ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AS	AIR SEPERATOR
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSE POWER
BOD	BOTTOM OF DUCT
BOT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BYP	BYPASS
CAP	CAPACITY
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CL	CENTER LINE
CLG	CEILING
CO	CLEAN OUT
CO_2	CARBON DIOXIDE
CONT	CONTINUE
CP	CONTROL PANEL / CONDENSATE PUMP
CU	CONDENSING UNIT
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	CONTROL VALVE
CWR	CONDENSED WATER RETURNED
CWS	CONDENSED WATER SUPPLIED
dB	DECIBEL
DB	DRY BULB
dBA	A-WEIGHTED DECIBEL
DEG	DEGREE
DEMO	DEMOLITION
DH	DUCT HEATER
DIA	DIAMETER
DIFF	DIFFUSER
DN	DOWN
DOAS	DEDICATED OUTSIDE AIR UNIT
DPS	DIFFERENTIAL PRESSURE SENSOR
DWG	DRAWING
EA	EXHAUST AIR / EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHUST FAN
ELEC	ELECTRIC
EMER	EMERGENCY
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
(E)	EXISTING
EXH	EXHAUST
EXP	EXPANSION
°F	DEGREES FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FTR	FINNED TUBE RADIATION
G	NATURAL GAS
GAL	GALLON
GC	GENERAL CONTRACTOR
GCWR	GLYCOL WATER RETURN
GCWS	GLYCOL WATER SUPPLY
GPM	GALLON PER MINUTE
HD	HEAD
HP	HORSEPOWER / HIGH PRESSURE / HEAT PUMP
HT	HEIGHT
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HX	HEAT EXCHANGER
IN	INCHES
IN WC	INCHES WATER COLUMN
KW	KILOWATTS

ABBREVIATIONS

LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MD	MOTORIZED DAMPER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODIFY
NC	NORMALLY CLOSE / NOISE CRITERIA
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN / NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NUM	NUMBER
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
PNL	PANEL
PSI	POUNDS PER SQUARE INCH
R	RADIUS / RISER / THERMAL RESISTANCE
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RR	RETURN REGISTER
REF	REFERENCE / REFRIGERATOR
REV	REVISION / REVOLUTIONS
RF	RELIEF FAN
RH	RELATIVE HUMIDITY / ROOF HOOD / REHEAT
RLD	RETURN LINEAR DIFFUSER
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE / ROOF VENT
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER / SMOKE DETECTOR
SF	SUPPLY FAN / SAFETY FACTOR / SQUARE FEET
SH	SENSIBLE HEAT
SPEC	SPECIFICATION
STD	STANDARD
SYS	SYSTEM
TD	TRANSFER DUCT
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UN	UNIT HEATER
V	VOLTS / VOLTAGE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VTR	VENT THROUGH ROOF
VT	VENTILATOR
W/	WITH
W/O	WITHOUT
WB	WET BULB
WPD	WATER PRESSURE DROP
WSHP	WATER SOURCE HEAT PUMP
WR	WALL RETURN REGISTER

NOTE:
NOT ALL ABBREVIATIONS INDICATED ABOVE ARE USED ON THIS PROJECT.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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10/06/2023	PERMIT REVISION	1

DRAWN: MR
CHECKED: JMC
SCALE: AS INDICATED

SHEET TITLE:
GENERAL NOTES, SYMBOLS & ABBREVIATIONS

SHEET #

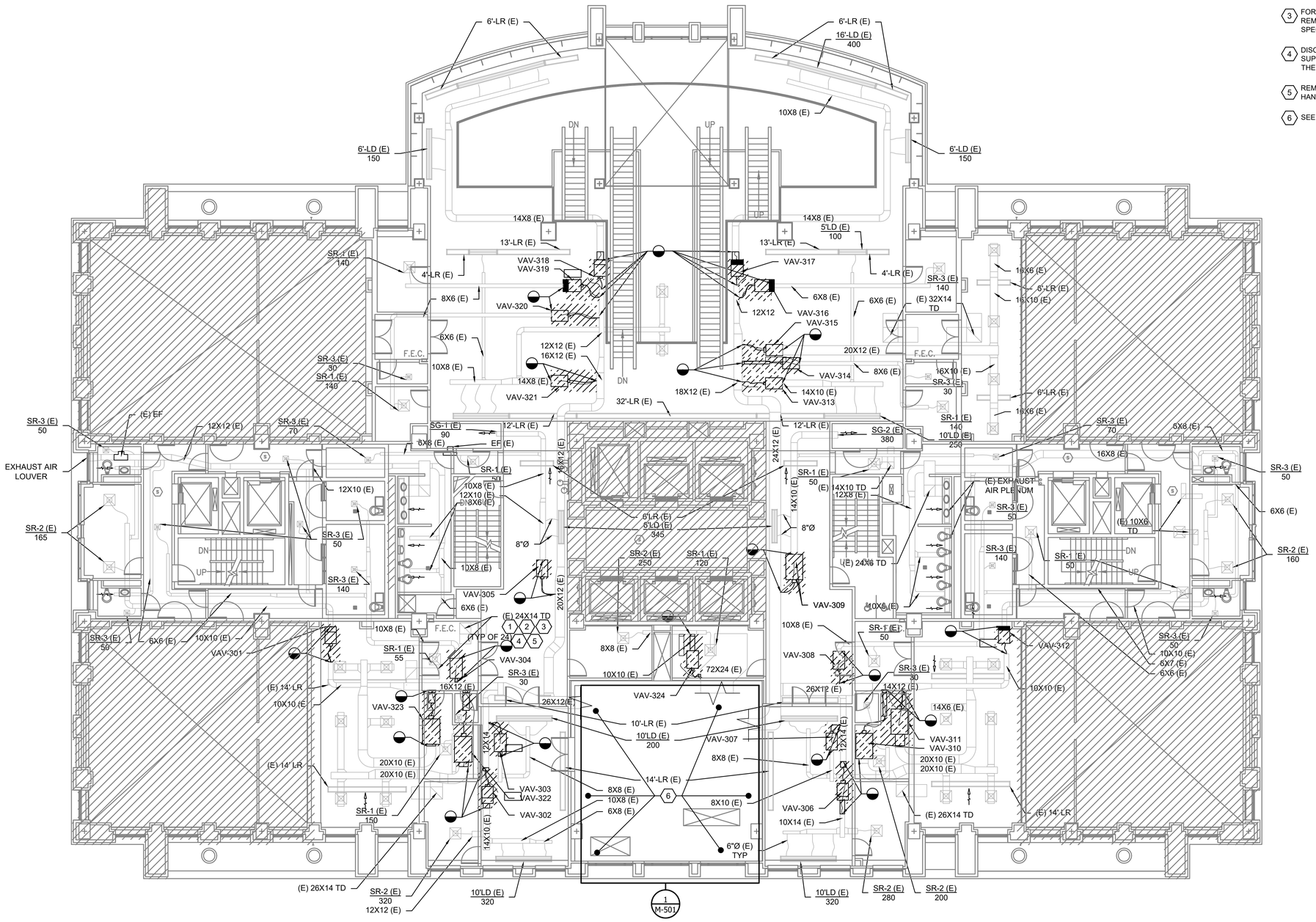
M001

GENERAL NOTES

1. ALL WORK ON 3RD FLOOR SHALL BE COORDINATED TO OCCUR DURING NON-BUSINESS HOURS (AFTER 5:30 PM, AND BEFORE 7:30 AM) AND ON WEEKENDS ONLY.
2. CONTRACTOR IS RESPONSIBLE TO PERFORM WORK DURING NON-BUSINESS HOURS, AND SHALL ENSURE THAT THE AREA OF WORK BE RETURNED TO A CONDITION CONDUCTIVE FOR THE WORKDAY. HENCE THE AREA SHALL BE CLEANED, CEILING TILES SHALL BE IN PLACE, NO TOOLS OR TEMPORARY PARTITIONS, FLOOR COVERING, DESK COVERING SHALL BE BE REMAIN IN THESE WORK AREAS TO CAUSE ANY INTERRUPTIONS TO THE USERS.
3. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. REFER TO ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
5. HATCHED AREA INDICATED DEMOLITION UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

1. PREPARE (E) VARIABLE AIR VOLUME BOX FOR REMOVAL. LO / TO, OR TURN "OFF" THE VAV BOX'S ASSOCIATED ELECTRICAL POWER BREAKER AT THE SOURCE PANEL PRIOR TO REMOVAL ACTIVITIES. (SEE ELECTRICAL DWGS FOR ADDITIONAL REQUIREMENTS).
2. DISCONNECT AND REMOVE PRIMARY SUPPLY AIR FLEXIBLE DUCTWORK FROM VAV BOX UNIT AND SUPPLYING HARD DUCT (SIZES VARY).
3. FOR VAV BOXES THAT HAVE ASSOCIATED HYDRONIC "RE-HEAT" COILS INSTALLED, REMOVE HEATING HOT-WATER SUPPLY & RETURN PIPING AND ASSOCIATED PIPING SPECIALTIES BACK TO NEAREST ISOLATION VALVE(S).
4. DISCONNECT AND REMOVE RECTANGULAR, LOW-PRESSURE, SHEET-METAL SUPPLY AIR DUCTWORK FROM THE VAV BOX, OR ITS RE-HEAT COIL COLLAR, TO THE NEAREST DOWNSTREAM DUCT JOINT.
5. REMOVE VAV BOX COMPLETE. REMOVE ALL ASSOCIATED VAV BOX AND PIPE HANGERS UP TO STRUCTURE, AND PREP AREA FOR NEW VAV BOX INSTALLATION.
6. SEE DRAWING M-501 FOR HVAC DEMOLITION AND REMOVAL DETAILS THIS AREA.



1 3RD FLOOR PLAN HVAC - DEMOLITION
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

PLAN NORTH
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3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

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SHEET TITLE:
FLOOR PLAN LEVEL 3 HVAC - DEMO

SHEET #

M101

GENERAL NOTES

1. ALL WORK ON 3RD FLOOR SHALL BE COORDINATED TO OCCUR DURING NON-BUSINESS HOURS (AFTER 5:30 PM, AND BEFORE 7:30 AM) AND ON WEEKENDS ONLY.
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3. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. REFER TO ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
5. HATCHED AREA INDICATED DEMOLITION UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

1. PREPARE (E) VARIABLE AIR VOLUME BOX FOR REMOVAL. LO / TO, OR TURN "OFF" THE VAV BOX'S ASSOCIATED ELECTRICAL POWER BREAKER AT THE SOURCE PANEL PRIOR TO REMOVAL ACTIVITIES. (SEE ELECTRICAL DWGS FOR ADDITIONAL REQUIREMENTS).
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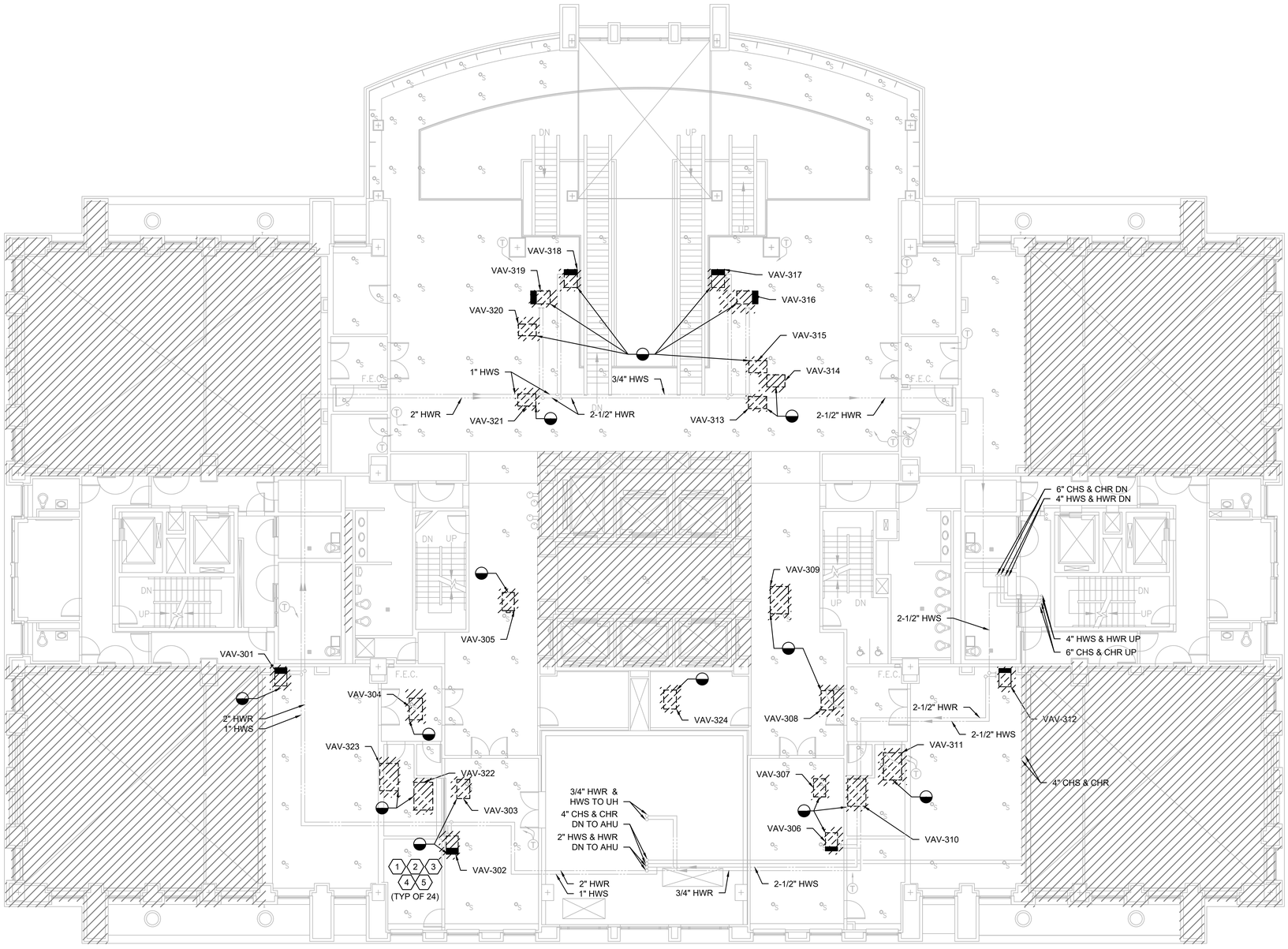

1 3RD FLOOR PLAN HVAC PIPING- DEMOLITION
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

PLAN NORTH
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3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
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SHEET TITLE:
FLOOR PLAN LEVEL 3 HVAC-PIPING - DEMO

SHEET #
M102

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. REFER TO ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
4. HATCHED AREA INDICATED DEMOLITION UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

1. PREPARE (E) VARIABLE AIR VOLUME BOX FOR REMOVAL. LO / TO, OR TURN "OFF" THE VAV BOX'S ASSOCIATED ELECTRICAL POWER BREAKER AT THE SOURCE PANEL PRIOR TO REMOVAL ACTIVITIES. (SEE ELECTRICAL DWGS FOR ADDITIONAL REQUIREMENTS).
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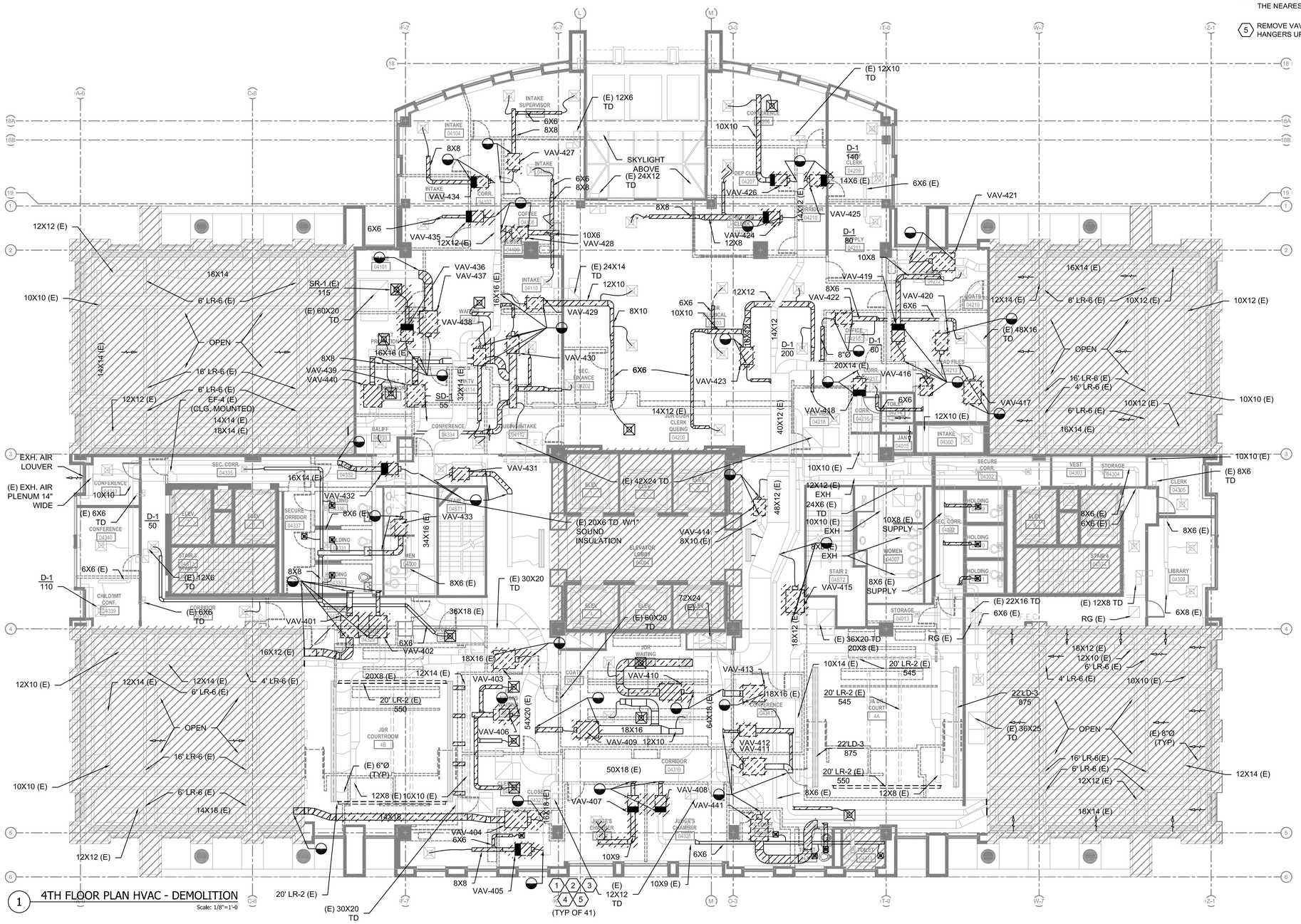

1 4TH FLOOR PLAN HVAC - DEMOLITION
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

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4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

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JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

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SCALE: AS INDICATED

SHEET TITLE:
FLOOR PLAN LEVEL 4 HVAC - DEMOLITION

SHEET #

M103

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. REFER TO ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
4. HATCHED AREA INDICATED DEMOLITION UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

1. PREPARE (E) VARIABLE AIR VOLUME BOX FOR REMOVAL. LO / TO, OR TURN "OFF" THE VAV BOX'S ASSOCIATED ELECTRICAL POWER BREAKER AT THE SOURCE PANEL PRIOR TO REMOVAL ACTIVITIES. (SEE ELECTRICAL DWGS FOR ADDITIONAL REQUIREMENTS).
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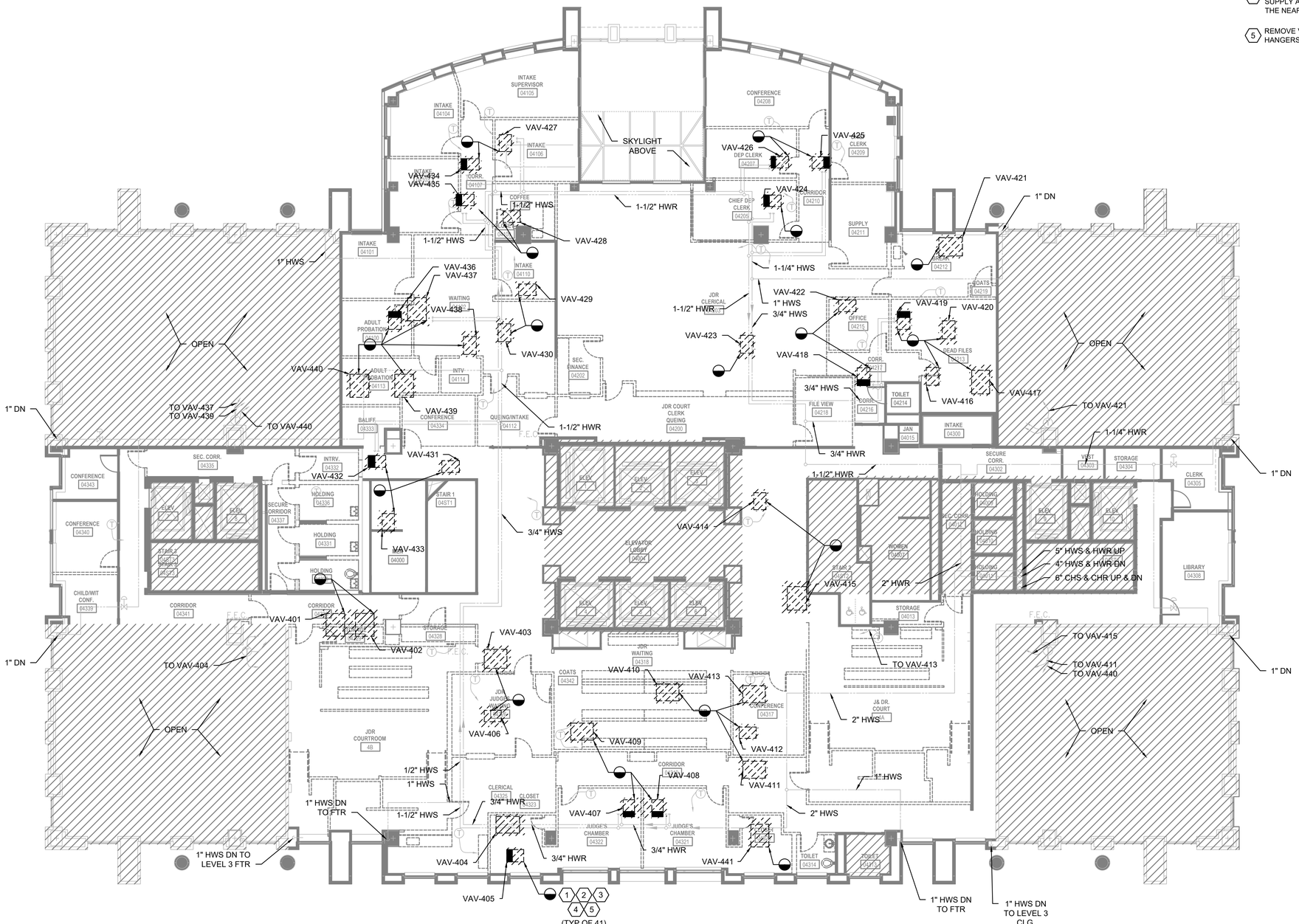

1 4TH FLR HVAC PIPING - DEMOLITION
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

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3200 Langston Boulevard Arlington, VA 22207
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4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

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SCALE: AS INDICATED

SHEET TITLE:
FLOOR PLAN LEVEL 4 HVAC-PIPING - DEMO

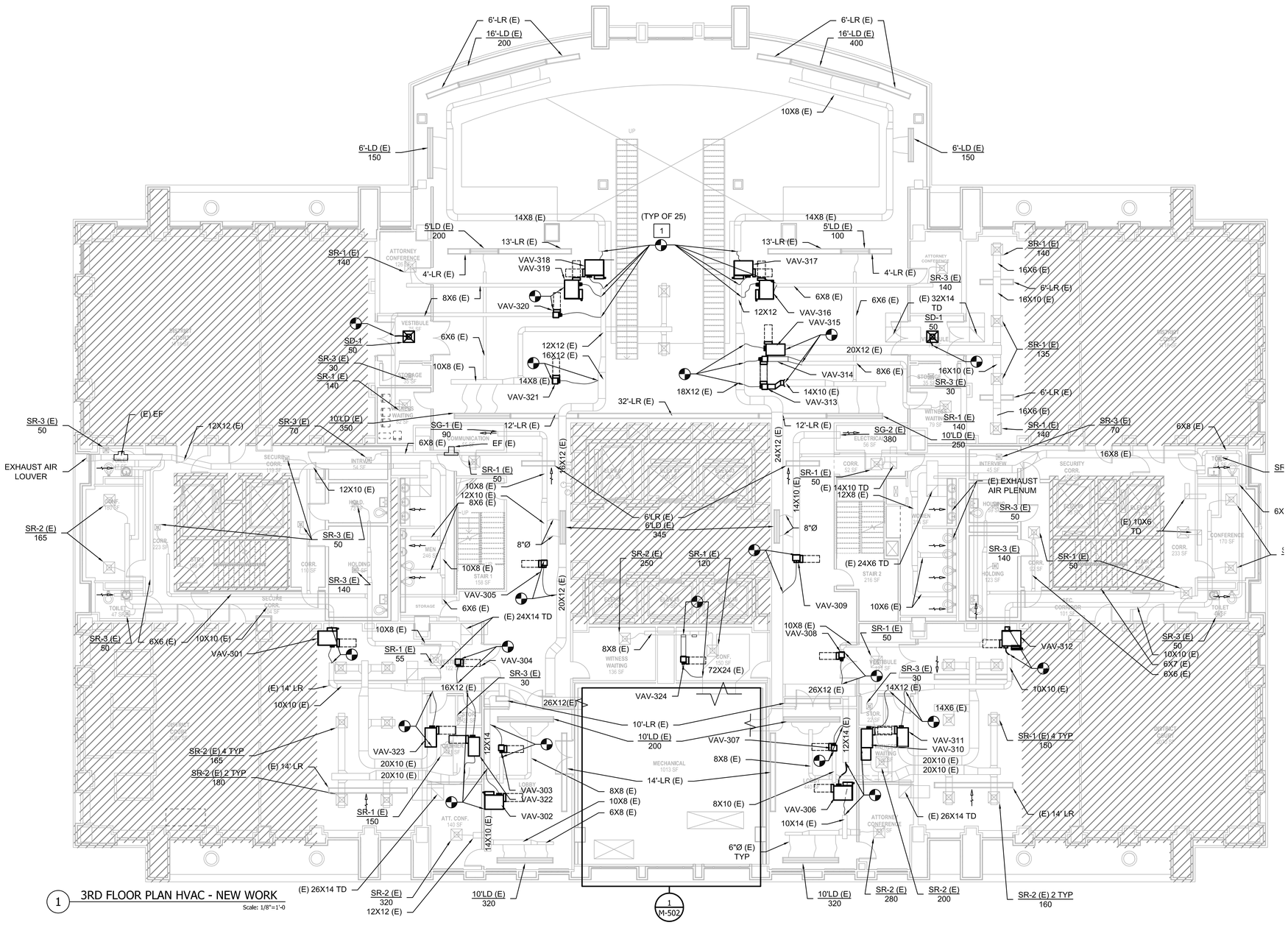
SHEET #
M104

GENERAL NOTES

1. ALL WORK ON 3RD FLOOR SHALL BE COORDINATED TO OCCUR DURING NON-BUSINESS HOURS (AFTER 5:30 PM, AND BEFORE 7:30 AM) AND ON WEEKENDS ONLY.
2. CONTRACTOR IS RESPONSIBLE TO PERFORM WORK DURING NON-BUSINESS HOURS, AND SHALL ENSURE THAT THE AREA OF WORK BE RETURNED TO A CONDITION CONDUCTIVE FOR THE WORKDAY. HENCE THE AREA SHALL BE CLEANED, CEILING TILES SHALL BE IN PLACE, NO TOOLS OR TEMPORARY PARTITIONS, FLOOR COVERING, DESK COVERING SHALL BE BE REMAIN IN THESE WORK AREAS TO CAUSE ANY INTERRUPTIONS TO THE USERS.
3. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
4. REFER TO ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
5. REUSE EXISTING CONTROL AND TIE INTO ALL NEW VAV BOXES.

NEW WORK NOTES:

1 VAV CONNECTION SEE DETAIL 2 ON SHEET M-502. TYP



1 3RD FLOOR PLAN HVAC - NEW WORK
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

PLAN NORTH
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3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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DRAWN: MR
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SCALE: AS INDICATED

SHEET TITLE:
FLOOR PLAN LEVEL 3 HVAC - NEW WORK

SHEET #

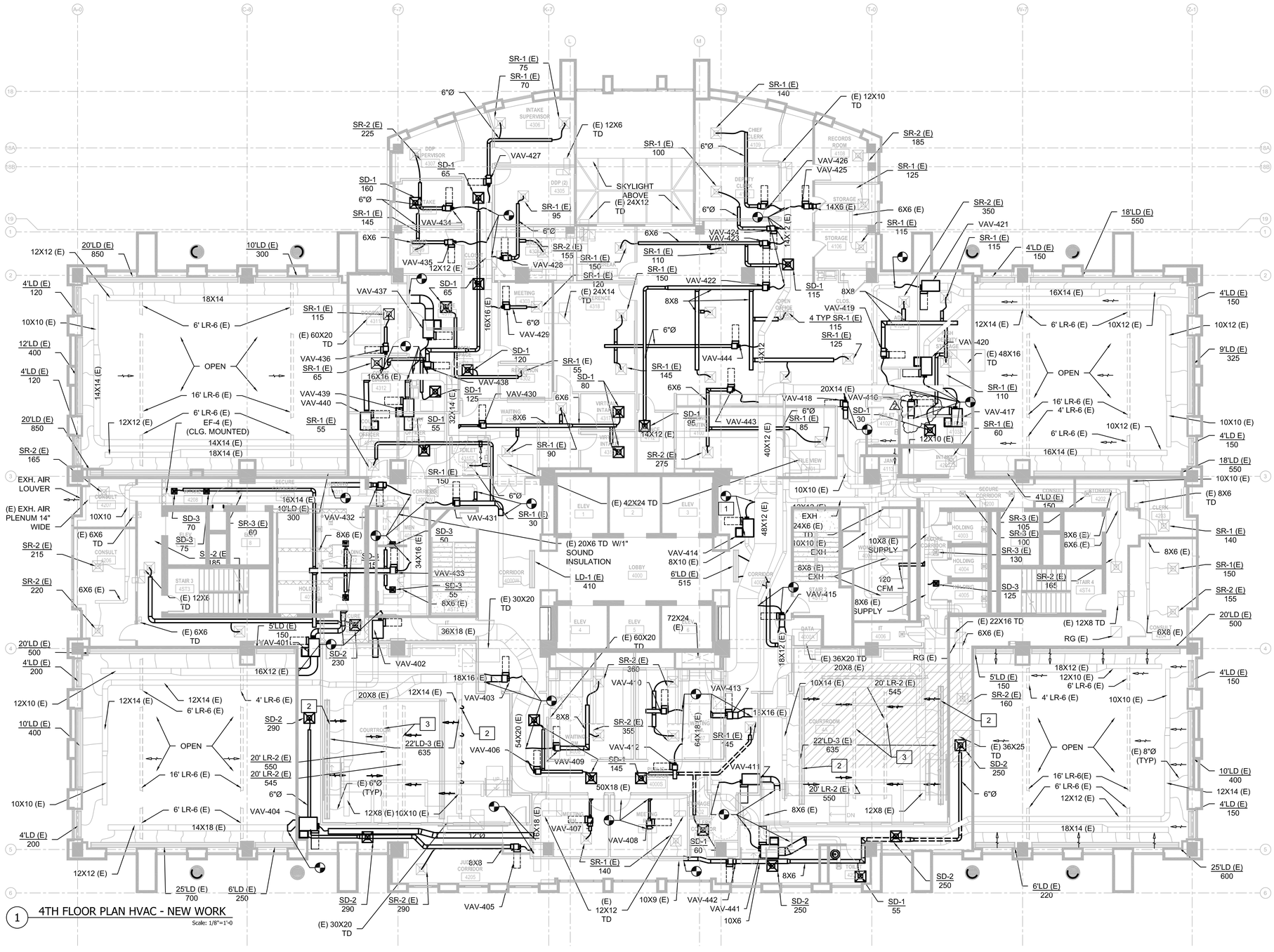
M105

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. REFER TO ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
4. REUSE EXISTING CONTROL AND TIE INTO ALL NEW VAV BOXES.

NEW WORK NOTES:

1. VAV CONNECTION SEE DETAIL 2 ON SHEET M-502. TYP
2. RELOCATED EXISTING LINEAR SUPPLY DIFFUSER ON THE SIDE OF THE CEILING DROP.
3. RELOCATED EXISTING LINEAR RETURN ON THE SIDE OF THE CEILING DROP.



1 4TH FLOOR PLAN HVAC - NEW WORK
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

PLAN NORTH

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4TH FLOOR COURTS RENOVATION

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ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
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540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
12/12/2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
07/14/2023	CONSTRUCTION DOCUMENTS	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2

DRAWN: MR
CHECKED: JMC
SCALE: AS INDICATED
SHEET TITLE: FLOOR PLAN LEVEL 4 HVAC - NEW WORK

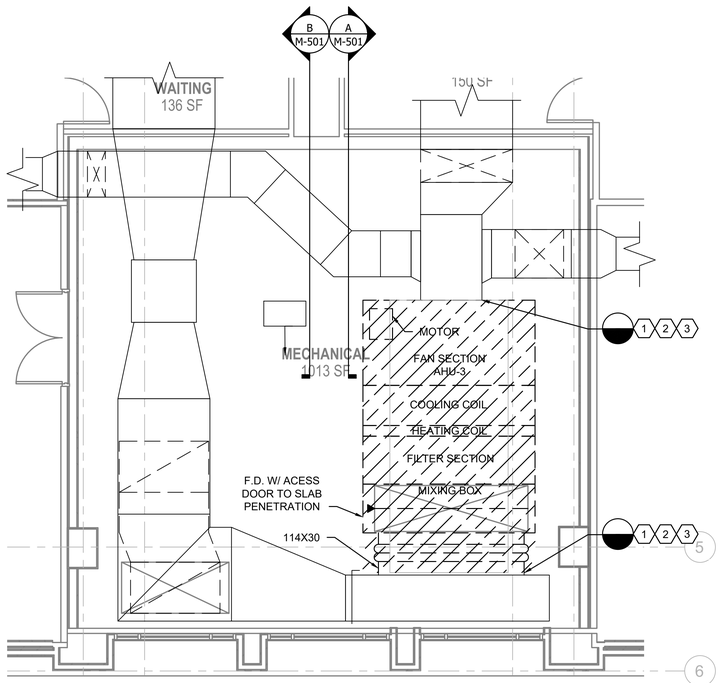
SHEET # M106

GENERAL NOTES

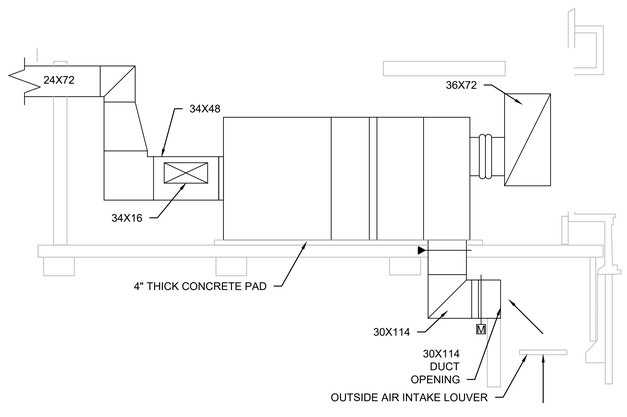
1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. REFER TO ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
4. HATCHED AREA INDICATED DEMOLITION UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

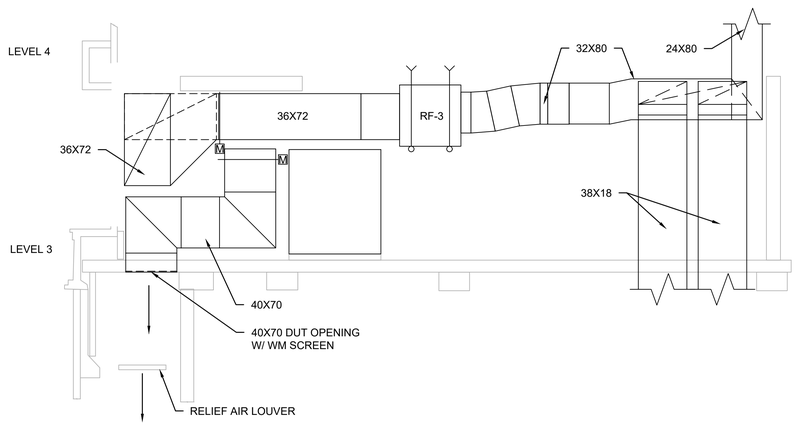
1. REMOVE PIPING ONLY TO THE EXTENT NECESSARY TO REMOVE EXISTING AHU AND INSTALL NEW AHU.
2. ESTABLISH AN INVENTORY OF ALL EXISTING CONTROL DEVICES, DEVICE LOCATIONS AND RELATED POWER OR CONTROL WIRING. ANY OF THIS WORK THAT MUST BE REMOVED OR IS DAMAGED DURING REMOVAL OF EXISTING AHU-3 SHALL BE REPLACED IN KIND FOR NEW AHU-3 INSTALLATION.
3. PRESERVE ALL CONTROL VALVES, FLEXIBLE CONNECTIONS, AIR VENTS AND OTHER DEVICES TO THE EXTENT POSSIBLE.



1 MECHANICAL ROOM - LEVEL 3 - DEMOLITION
Scale: 1/4"=1'-0



A SECTION A - LEVEL 3
Scale: 1/4"=1'-0



B SECTION B - LEVEL 3
Scale: 1/4"=1'-0

MTFA
architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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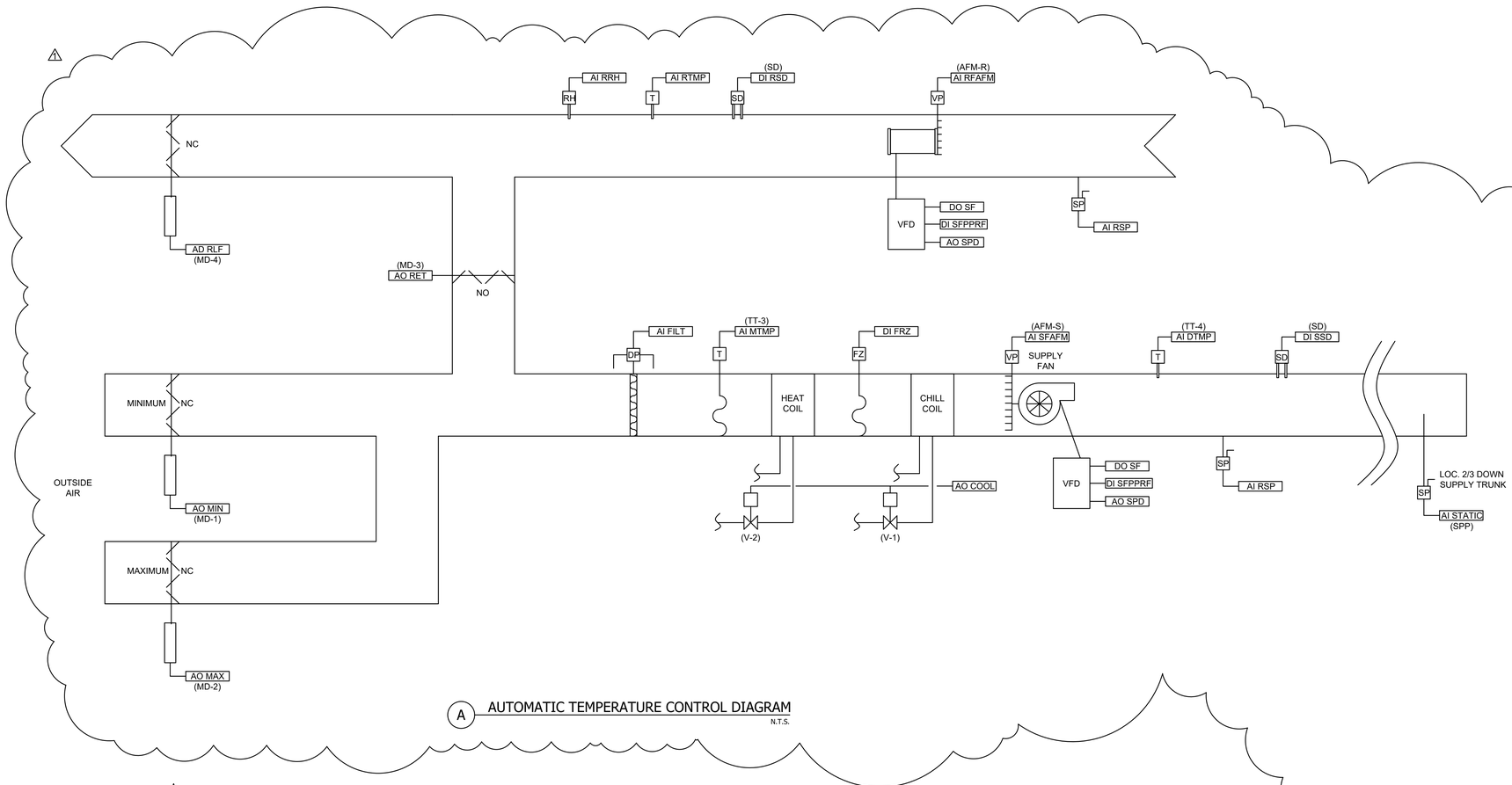
DRAWN: MR
CHECKED: JMC
SCALE: AS INDICATED

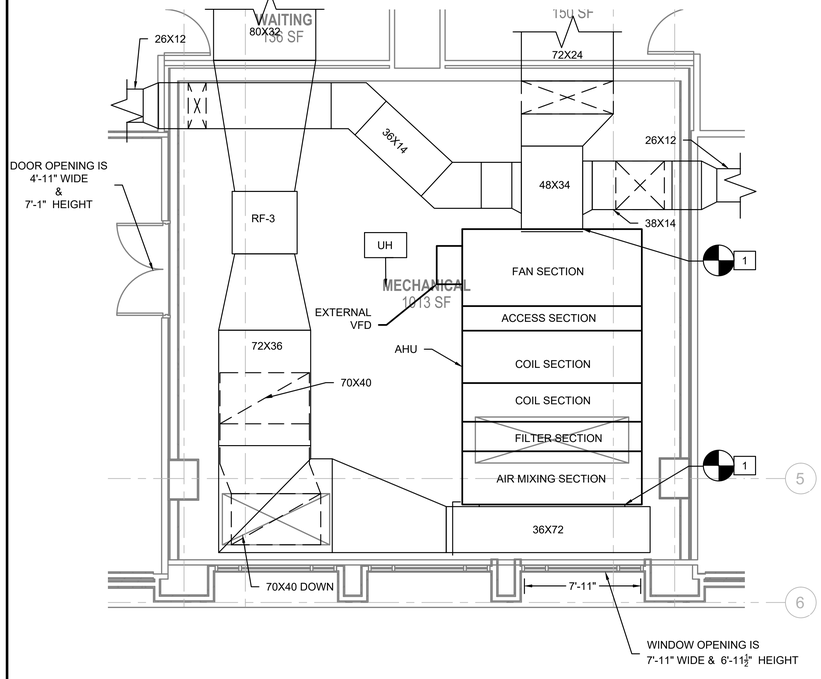
SHEET TITLE:
3RD FLR - DEMOLITION DETAILS

SHEET #
M501



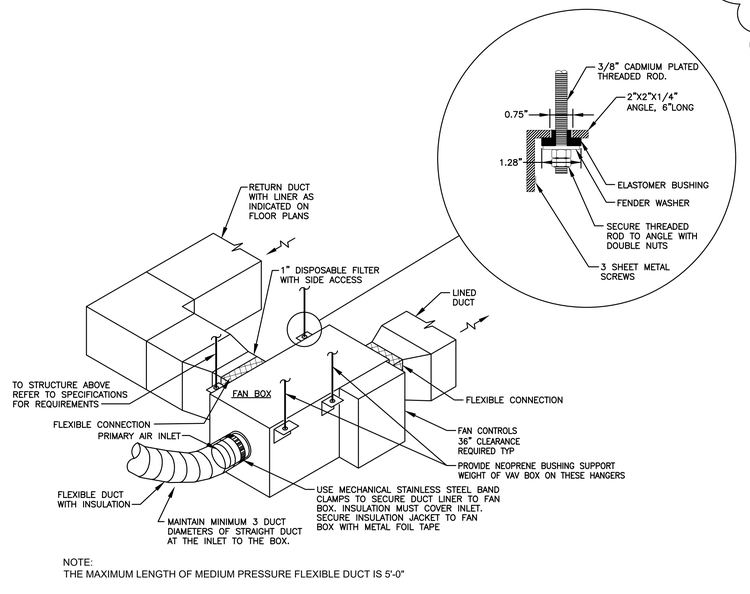
A AUTOMATIC TEMPERATURE CONTROL DIAGRAM

N.T.S.



1 MECHANICAL ROOM - LEVEL 3 - NEW WORK

Scale: 1/4"=1'-0



NOTE:
THE MAXIMUM LENGTH OF MEDIUM PRESSURE FLEXIBLE DUCT IS 5'-0"

2 FAN POWERED BOX DETAIL

Scale: N.T.S.

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. REFER TO ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

NEW WORK NOTES:

1 FOR CONTROLS WORK REMOVED OR DAMAGED DURING EXISTING AHU-3 REMOVAL AND/OR DURING NEW AHU-3 INSTALLATION, REPLACE IN KIND. ALSO PROVIDE ANY NEW CONTROL OR OTHER PIPE-MOUNTED DEVICES AND RELATED WORK CALLED OUT IN DETAIL 3 ON DRAWING M-502 TO THE EXTENT THEY DO NOT ALREADY EXIST. ONCE ALL THIS WORK IS INSTALLED, CONFIRM ALL DEVICES COMMUNICATE WITH EXISTING CONTROL SYSTEM TO PROVIDE THE SEQUENCE OF OPERATION INDICATED (SEQUENCE MATCHES EXISTING SEQUENCE) AND FIX AS NECESSARY UNTIL SEQUENCE CAN BE FULLY SATISFIED.

SEQUENCE OF OPERATION AHU-3

A. UNIT SHALL BE OPERATED WITH INDIVIDUAL "H.O.A" SWITCHES.

B. UNIT SHALL BE PROVIDED WITH AN INDIVIDUAL DDC CONTROL PANELS.

C. WITH THE SWITCH IN THE "H" AND "O" POSITIONS, UNIT SHALL BE STARTED AND STOPPED MANUALLY.

D. WITH THE SWITCH IN THE "A" POSITION, UNIT SHALL BE OPERATED FROM THE DDC SYSTEM ACCORDING TO PRESET "OCCUPIED" AND "UNOCCUPIED" SCHEDULES.

E. WHEN UNIT IS STARTED , THE LOCAL DDC PANEL IS ENERGIZED AND SF AND RF START THROUGH THEIR VFDS. MD-1 OPENS ONLY AFTER TT-1 SETTING IS MET (AFTER MORNING WARM-UP PERIOD).

F. OCCUPIED MODE:

1. COOLING: TT-4 SHALL MODULATE V-1 TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 56°F. ON A RISE IN STATIC PRESSURE ABOVE A PRESENT MAXIMUM PRESSURE, AS SENSED BY SPP LOCATED AS SHOWN, THE VAV CONTROL PANEL, ACTING THROUGH THE VFD, SHALL REDUCE THE SF RPM AND AIR OUTPUT UNTIL THE STATIC PRESSURE DECREASES BELOW THE SET POINT. TT-3 SHALL MODULATE MD-2 AND MD-3 TO MAINTAIN A LOWER MA TEMPERATURE.
2. ECONOMIZER CYCLE : THE DDC SYSTEM SHALL COMPUTE THE O.A. ENTHALPY FROM TEMPERATURE AND RELATIVE HUMIDITY AS SENSED BY TT-1 AND RHS-1, CONSECUTIVELY, AND COMPARE IT TO THE R.A. ENTHALPY OBTAINED THROUGH TT-2 AND RHS-2. WHEN THE O.A. ENTHALPY FALLS BELOW THE R.A. ENTHALPY, THE SYSTEM SHALL RUN ON AN ECONOMIZER CYCLE AS FOLLOWS: MD-2 OPENS, MD-3 CLOSES, AND V-1 MODULATES TO MAINTAIN 56°F S.A. TEMPERATURE. IF M.A. TEMPERATURE AS SENSED BY TT-3, FALLS BELOW 56°F, V-1 CLOSES , AND MD-2 AND MD-3 MODULATE TO MAINTAIN 56°F M.A. TEMPERATURE.
3. HEATING: FIRST, THE SYSTEM SHALL FOLLOW THE ECONOMIZER CYCLE FOR HEATING. IN ADDITION, IF M.A. TEMPERATURE FALLS BELOW 56°F, TT-3 SHALL CLOSE V-1 AND MODULATE MD-2 AND MD-3 TO MAINTAIN M.A. TEMPERATURE OF 56°F. IF S.A. TEMPERATURE , AS SENSED BY TT-4, FURTHER FALLS BELOW 54°F, TT-4 SHALL OPEN AND MODULATE V-2 TO MAINTAIN S.A. TEMPERATURE OF 56°F.

G. UNOCCUPIED MODE:

1. COOLING AND ECONOMIZER CYCLE: THE SEQUENCE SHALL BE THE SAME AS COOLING AND ECONOMIZER CYCLE IN THE OCCUPIED MODES, EXCEPT THAT A NIGHT SETBACK THERMOSTAT SHALL OVERRIDE THE SPACE THERMOSTAT SETTING AND MAINTAIN A TEMPERATURE OF 85°F IN THE SPACE . THE OUTSIDE AIR SHALL BE USED FIRST FOR COOLING WITH MD-1, MD-2 AND MD-4 CLOSES, MD-3 OPENS, AND V-1 MODULATES.
2. HEATING AHU SHALL NOT RUN FOR HEATING IN UNOCCUPIED MODE.

H. FREEZE PROTECTION: A FREEZESTAT SHALL BE PROVIDED ACROSS THE LEAVING FACE OF THE PREHEAT COIL. A TEMPERATURE OF 40°F SENSED AT ANY INCREMENT OF ONE FOOT ALONG THE FREEZESTAT SENSING ELEMENT SHALL SEND AN ALARM SIGNAL TO DDC SYSTEM, CLOSE MD-1 AND MD-2, AND STOP AHU.

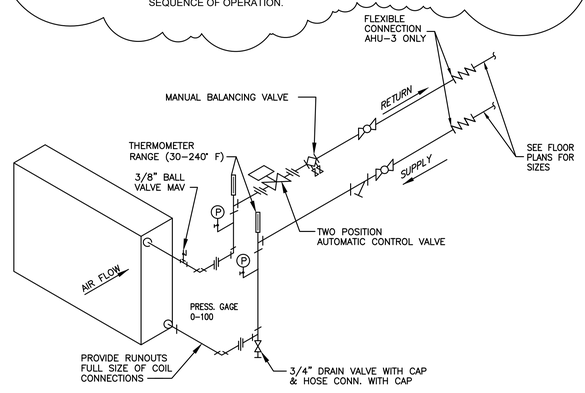
I. SMOKE MODE: UPON DETECTION OF SMOKE BY ANY AREA SMOKE DETECTOR OR DUCT-MOUNTED SMOKE DETECTOR SD, THE ASSOCIATED AHU SHALL STOP AND AN ALARM SIGNAL SHALL BE SENT TO THE DDC. THE ASSOCIATED RF SHALL ALSO STOP. IF O.A. TEMPERATURE, AS SENSED BY TT-1 (OR TT-3), IS BELOW 40°F, V-2 SHALL OPEN TO MAXIMUM POSITION.

J. MD-4 SHALL MODULATE IN REVERSE ACTION WITH MD-3 TO RELIEVE ANY AIR NOT RETURNING THROUGH MD-3 TO AHU.

K. VFD-R SHALL MODULATE RF RPM THROUGH AFM-S AND AFM-R TO MAINTAIN THE R.A. CFM BASED ON THE S.A. AND E.A. CFM. RF SHALL BE INTERLOCKED WITH SF.

VAV BOX SEQUENCE OF OPERATION

ALL EXISTING AND RELOCATED VAV BOXES WILL FOLLOW THE EXISTING PROGRAMMED SEQUENCE OF OPERATION.



3 AHU-3 & RELOCATED VAV BOX COIL DETAIL

Scale: N.T.S.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
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SHEET TITLE:
3RD FLR
-
NEW WORK DETAILS

SHEET #

M502

VARIABLE VOLUME TERMINAL SCHEDULE (EXISTING TO BE REMOVED)

PLAN MARK	PRIMARY AIR			FAN POWERED			HEATING		MAXIMUM SOUND POWER						MAXIMUM PRESSURE DROP		TYPE (NOTE 7)	MAX HEIGHT (IN.)	REMARKS
	INLET SIZE IN.	CFM		FAN CFM	STATIC PRESS. FAN	MOTOR SIZE HP	BTUH	GPM	RADIATED/DISCHARGE BAND						WATER (FT.)	AIR (IN. WC.)			
		DESIGN	MIN.						2	3	4	5	6	7					
VAV 301	8	430	90	200	0.6	1/10	9,700	1	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 302	10	600	110	280	0.6	1/4	16,800	1.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	17	
VAV 303	6	380	75	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 304	6	395	75	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 305	8	555	100	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	10	
VAV 306	10	600	110	280	0.6	1/4	16,800	1.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	17	
VAV 307	6	430	90	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 308	5	290	75	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 309	9	845	150	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	13	
VAV 310	8	480	90	1,020	0.5	1/3	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.3	S.F.	17	
VAV 311	8	480	90	1,010	0.5	1/3	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.3	S.F.	17	
VAV 312	8	420	90	200	0.6	1/10	9,700	1	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 313	6	350	75	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 314	4	170	50	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 315	10	500	100	1,500	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 316	6	140	40	100	0.6	1/10	6,000	0.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 317	10	550	110	300	0.6	1/4	17,500	1.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	17	
VAV 318	10	550	110	300	0.6	1/4	17,500	1.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	17	
VAV 319	6	140	40	100	0.6	1/10	6,000	0.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 320	4	170	50	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 321	8	550	100	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	10	
VAV 322	10	480	90	1,020	0.5	1/3	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 323	10	480	90	1,010	0.5	1/3	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 324	6	370	75	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 401	12	800	175	1,380	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	20	
VAV 402	8	420	90	980	0.5	1/3	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 403	12	1,080	200	1,750	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	20	
VAV 404	12	1,050	200	1,700	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	20	
VAV 405	10	640	100	250	0.6	1/10	15,000	1.5	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 406	8	420	100	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	10	
VAV 407	8	320	70	150	0.6	1/10	9,500	1	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 408	8	470	90	200	0.6	1/10	13,800	1.5	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 409	10	585	100	1,575	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 410	10	585	100	1,575	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 411	10	420	90	980	0.5	1/3	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 412	5	285	75	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.F.	17	
VAV 413	12	1,080	200	1,750	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	20	
VAV 414	7	345	100	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	10	
VAV 415	12	800	175	1,380	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	20	
VAV 416	7	460	100	-	-	-	-	-	60/64	51/56	40/51	40/46	38/33	34/32	-	0.2	S.D.	10	
VAV 417	12	650	125	1,250	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 418	8	460	100	200	0.6	1/10	12,500	1.25	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 419	8	280	75	125	0.6	1/10	8,600	1	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 420	10	550	100	900	0.5	1/3	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 421	10	650	125	1,250	0.5	1/2	-	-	61/71	57/66	53/70	52/67	5162	50/52	-	0.2	S.F.	17	
VAV 422	4	170	75	-	-	-	-	-	60/64	51/56	44/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 423	10	990	200	-	-	-	-	-	60/64	51/56	44/51	40/46	38/33	34/32	-	0.2	S.D.	13	
VAV 424	8	440	100	200	0.6	1/10	12,500	1.25	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 425	8	360	75	160	0.6	1/10	10,000	1	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 426	8	350	75	160	0.6	1/10	10,000	1	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 427	6	180	50	100	0.6	1/10	6,500	0.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 428	6	330	90	-	-	-	-	-	60/64	51/56	44/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 429	7	525	100	-	-	-	-	-	60/64	51/56	44/51	40/46	38/33	34/32	-	0.2	S.D.	10	
VAV 430	10	955	200	-	-	-	-	-	60/64	51/56	44/51	40/46	38/33	34/32	-	0.2	S.D.	13	
VAV 431	6	395	90	-	-	-	-	-	60/64	51/56	44/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 432	10	430	100	250	0.6	1/10	15,000	1.5	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	17	
VAV 433	6	490	100	-	-	-	-	-	60/64	51/56	44/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 434	6	170	60	100	0.6	1/10	6,900	0.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 435	6	140	50	100	0.6	1/10	6,500	0.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 436	6	125	50	100	0.6	1/10	6,500	0.75	66/75	63/72	60/75	58/73	58/72	58/61	2	0.3	P.F.	14	
VAV 437	12	800	150	1,700	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	20	
VAV 438	5	210	60	-	-	-	-	-	60/64	51/56	44/51	40/46	38/33	34/32	-	0.2	S.D.	8	
VAV 439	12	800	150	1,700	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	20	
VAV 440	10	630	100	1,150	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	17	
VAV 441	12	1,050	200	1,700	0.5	1/2	-	-	61/71	57/66	53/70	52/67	51/62	50/52	-	0.2	S.F.	20	

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
07/14/2023	CONSTRUCTION DOCUMENTS	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1

DRAWN: MR
CHECKED: JMC

SCALE: AS INDICATED

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET #

M701

AIR HANDLING UNIT SCHEDULE

MARK	AIR MIXING SECTION				HEATING COIL SECTION									COOLING COIL SECTION														FAN		MOTOR DATA		UNIT ELECTRICAL		
							AIR				FLUID				CAPACITY MBH			AIR						FLUID											
	AIR FLOW CFM	MIN. O.A. CFM	FACE VELOCITY FPM	PRESSURE DROP IN. WG	TOTAL CAPACITY MBH	ROWS	EAT DB F	LAT DB F	PRESSURE DROP IN. WG	FACE VELOCITY FPM	FLOW GPM	EWT F	LWT F	WATER PD FT	TOTAL	SENSIBLE	ROWS	EAT DB F	LAT DB F	EWT F	LWT F	PRESSURE DROP IN. WG	FACE VELOCITY FPM	FLOW GPM	EWT F	LWT F	WATER PD FT	TOTAL BHP	OPERATING SPEED RPM	FAN HP	SPEED	VOLTAGE/ PHASE/ FREQUENCY	FLA	MCA
AHU-3	35,755	8,835	2,172	0.483	2,132.70	3	45	100	0.269	545	213.67	140	120	8.8	1,306.24	1033.37	6	81.26	55.00	66.20	54.22	0.704	545	260.32	44.00	54.00	6.26	50.68	2,211	15	1800	460/3/60	84	89.25

NOTES:

1. MIN O.A. CFM IS LESS THAN %25 OF TOTAL SUPPLY AIR AT NEW AHU-3

3

DESIGN DATA SCHEDULE

SPACE	SUMMER INDOOR DSGN D.B. (DEG F)	SUMMER INDOOR DSGN R.H. (%)	WINTER INDOOR DSGN D.B. (DEG F)	WINTER INDOOR DSGN R.H. (%)	SUMMER O.A. DB (DEG F)	SUMMER O.A. WB (DEG F)	WINTER O.A. DB (DEG F)	WINTER O.A. WB (DEG F)	REMARKS
GENERAL	75.0	50.0	70.0	35 (MIN.)	97.5	78.0	10.0	5.0	SEE NOTES

NOTES:

1. OUTDOOR CONDITIONS BASED ON "MEDIAN OF ANNUAL EXTREMES" FOR REAGAN NATIONAL AIRPORT (DCA); ASHRAE - FUNDAMENTALS HANDBOOK, 2021 ED.

AIR DEVICE SCHEDULE

MARK NO	SERVICE	TYPE	FACE SIZE (IN)	INLET SIZE (IN)	CFM RANGE	BASIS OF DESIGN	REMARKS
SD-1	SUPPLY	DIFFUSER	24X24	6" Ø	0-175	PRICE	
SD-2	SUPPLY	DIFFUSER	24X24	8" Ø	176-300	PRICE	
SD-3	SUPPLY	DIFFUSER	12X12	6" Ø	0-175	PRICE	
SR-1	SUPPLY	REGISTER	24X24	6" Ø	0-150	-	EXISTING
SR-2	SUPPLY	REGISTER	24X24	8" Ø	151-360	-	EXISTING
SR-3	SUPPLY	REGISTER	12X12	6" Ø	0-150	-	EXISTING
LD-3	SUPPLY	LINEAR DIFFUSER	VARIES	6" Ø	UP TO 635	-	EXISTING
LR-3	RETURN	LINEAR RETURN	VARIES	6" Ø	UP TO 550	-	EXISTING
RG-1	RETURN	REGISTER	24X24	-	-	-	EXISTING
EXH-1	EXHAUST	EXHAUST	12X12	6" Ø	0-100	-	EXISTING

VAV SCHEDULE 3RD FLOOR

VAV#	UNIT MODEL	MANUFACTURE	PRIMARY INLET	DESIGN COOLING AIRFLOW CFM	MIN COOLING AIRFLOW CFM	VALVE HEATING AIRFLOW CFM	Height	Length	Width	Service Clearance
VAV-301	VPWF (Parallel Fan Hot Water Heat)	TRANE	8"	430	215	215	15.5"	40"	30"	36"
VAV-302	VPWF (Parallel Fan Hot Water Heat)	TRANE	10"	600	165	165	15.5"	40"	30"	36"
VAV-303	VCCF (Cooling Only)	TRANE	6"	380	75	75	9.5"	11.5"	11.5"	36"
VAV-304	VCCF (Cooling Only)	TRANE	6"	395	75	75	9.5"	11.5"	11.5"	36"
VAV-305	VCCF (Cooling Only)	TRANE	6"	555	105	105	9.5"	11.5"	11.5"	36"
VAV-306	VPWF (Parallel Fan Hot Water Heat)	TRANE	10"	600	165	165	15.5"	40"	30"	36"
VAV-307	VCCF (Cooling Only)	TRANE	6"	430	90	90	9.5"	11.5"	11.5"	36"
VAV-308	VCCF (Cooling Only)	TRANE	5"	290	75	75	9.5"	11.5"	11.5"	36"
VAV-309	VCCF (Cooling Only)	TRANE	10"	845	165	165	13.5"	15.5"	12"	36"
VAV-310	VSCF (Series Fan Cooling Only)	TRANE	8"	460	105	105	17.5"	40"	24"	36"
VAV-311	VSCF (Series Fan Cooling Only)	TRANE	8"	460	105	105	17.5"	40"	24"	36"
VAV-312	VPWF (Parallel Fan Hot Water Heat)	TRANE	8"	420	105	105	15.5"	40"	30"	36"
VAV-313	VCCF (Cooling Only)	TRANE	6"	350	75	75	9.5"	11.5"	11.5"	36"
VAV-314	VCCF (Cooling Only)	TRANE	5"	170	50	50	9.5"	11.5"	11.5"	36"
VAV-315	VSCF (Series Fan Cooling Only)	TRANE	10"	550	165	165	17.5"	40"	24"	36"
VAV-316	VPWF (Parallel Fan Hot Water Heat)	TRANE	5"	140	100	100	15.5"	40"	30"	36"
VAV-317	VPWF (Parallel Fan Hot Water Heat)	TRANE	10"	550	165	165	15.5"	40"	30"	36"
VAV-318	VPWF (Parallel Fan Hot Water Heat)	TRANE	8"	550	165	165	15.5"	40"	30"	36"
VAV-319	VPWF (Parallel Fan Hot Water Heat)	TRANE	5"	140	140	140	15.5"	40"	30"	36"
VAV-320	VCCF (Cooling Only)	TRANE	5"	170	50	50	9.5"	11.5"	11.5"	36"
VAV-321	VCCF (Cooling Only)	TRANE	8"	550	105	105	9.5"	11.5"	11.5"	36"
VAV-322	VSCF (Series Fan Cooling Only)	TRANE	10"	510	165	165	17.5"	40"	24"	36"
VAV-323	VSCF (Series Fan Cooling Only)	TRANE	10"	510	165	165	17.5"	40"	24"	36"
VAV-324	VCCF (Cooling Only)	TRANE	6"	370	75	75	9.5"	11.5"	11.5"	36"

VAV SCHEDULE 4TH FLOOR

VAV#	UNIT MODEL	MANUFACTURE	PRIMARY INLET	DESIGN COOLING AIRFLOW CFM	MIN COOLING AIRFLOW CFM	VALVE HEATING AIRFLOW CFM	Height	Length	Width	Service Clearance
VAV-401	VSCF (Series Fan Cooling Only)	TRANE	10"	845	425	425	16"	40"	40"	36"
VAV-402	VSCF (Series Fan Cooling Only)	TRANE	6"	445	225	225	18"	44"	30"	36"
VAV-403	VCCF (Cooling Only)	TRANE	10"	1270	635	635	13.5"	21"	16"	36"
VAV-404	VSCF (Series Fan Cooling Only)	TRANE	12"	1100	855	855	17.5"	46"	44"	36"
VAV-405	VCWF (Hot Water Heating)	TRANE	8"	870	435	435	11.5"	22"	18"	36"
VAV-406	VCCF (Cooling Only)	TRANE	6"	290	145	145	9.5"	17"	16"	36"
VAV-407	VCWF (Hot Water Heating)	TRANE	4"	140	70	70	9.5"	25"	17"	36"
VAV-408	VCWF (Hot Water Heating)	TRANE	4"	140	70	70	17.5"	21"	16.5"	36"
VAV-409	VCCF (Cooling Only)	TRANE	8"	715	360	360	11.5"	18"	15.5"	36"
VAV-410	VCCF (Cooling Only)	TRANE	8"	715	360	360	11.5"	18"	15.5"	36"
VAV-411	VSCF (Series Fan Cooling Only)	TRANE	6"	400	200	200	17.5"	44"	29"	36"
VAV-412	VCCF (Cooling Only)	TRANE	6"	350	175	175	9.5"	17"	16"	36"
VAV-413	VCCF (Cooling Only)	TRANE	10"	1270	635	635	13.5"	21"	16"	36"
VAV-414	VSCF (Series Fan Cooling Only)	TRANE	8"	765	420	420	17.5"	44"	40"	36"
VAV-415	VCCF (Cooling Only)	TRANE	8"	515	260	260	11.5"	18"	15.5"	36"
VAV-416	VCCF (Cooling Only)	TRANE	10"	1070	535	535	13.5"	21"	16.5"	36"
VAV-417	VSCF (Series Fan Cooling Only)	TRANE	8"	710	375	375	17.5"	44"	40"	36"
VAV-418	VCWF (Hot Water Heating)	TRANE	6"	445	225	225	9.5"	22.5"	17"	36"
VAV-419	VCWF (Hot Water Heating)	TRANE	8"	605	0	310	11.5"	22"	18"	36"
VAV-420	VSCF (Series Fan Cooling Only)	TRANE	8"	605	320	320	18"	44"	30"	36"
VAV-421	VSCF (Series Fan Cooling Only)	TRANE	8"	710	375	375	18"	44"	30"	36"
VAV-422	VCCF (Cooling Only)	TRANE	8"	680	340	340	11.5"	18"	15.5"	36"
VAV-423	VCWF (Hot Water Heating)	TRANE	6"	375	225	225	9.5"	22.5"	17"	36"
VAV-424	VCWF (Hot Water Heating)	TRANE	4"	100	75	75	9.5"	25"	17"	36"
VAV-425	VCWF (Hot Water Heating)	TRANE	6"	425	225	225	9.5"	22.5"	17"	36"
VAV-426	VCWF (Hot Water Heating)	TRANE	4"	140	0	75	9.5"	25"	17"	36"
VAV-427	VCWF (Hot Water Heating)	TRANE	4"	145	0	80	9.5"	25"	17"	36"
VAV-428	VCWF (Hot Water Heating)	TRANE	5"	250	0	125	9.5"	25"	17"	36"
VAV-429	VCCF (Cooling Only)	TRANE	4"	120	75	75	9.5"	18.5"	17"	36"
VAV-430	VCCF (Cooling Only)	TRANE	5"	340	175	175	9.5"	18.5"	17"	36"
VAV-431	VCCF (Cooling Only)	TRANE	8"	700	350	350	11.5"	18"	15.5"	36"
VAV-432	VCWF (Hot Water Heating)	TRANE	8"	600	325	325	11.5"	22"	18"	36"
VAV-433	VCCF (Cooling Only)	TRANE	10"	910	455	455	13.5"	21"	16.5"	36"
VAV-434	VCWF (Hot Water Heating)	TRANE	4"	225	120	120	9.5"	25"	17"	36"
VAV-435	VCWF (Hot Water Heating)	TRANE	5"	305	155	155	9.5"	25"	17"	36"
VAV-436	VCWF (Hot Water Heating)	TRANE	4"	110	75	75	9.5"	25"	17"	36"
VAV-437	VSCF (Series Fan Cooling Only)	TRANE	10"	1055	535	535	17.5"	44"	35"	36"
VAV-438	VCCF (Cooling Only)	TRANE	8"	560	285	285	11.5"	18"	15.5"	36"
VAV-439	VSCF (Series Fan Cooling Only)	TRANE	10"	1055	535	535	17.5"	44"	35"	36"
VAV-440	VSCF (Series Fan Cooling Only)	TRANE	8"	830	425	425	17.5"	44"	40"	36"
VAV-441	VSCF (Series Fan Cooling Only)	TRANE	10"	1005	510	510	17.5"	44"	40"	36"
VAV-442	VCWF (Hot Water Heating)	TRANE	8"	805	410	410	11.5"	22"	18"	36"
VAV-443	VCCF (Cooling Only)	TRANE	6"	360	200	200	9.5"	17"	16"	36"
VAV-444	VCCF (Cooling Only)	TRANE	5"	295	155	155	9.5"	18.5"	17"	36"

MTFA architecture

3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Arlington County

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ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
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Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
12/29/2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
07/14/2023	CONSTRUCTION DOCUMENTS	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2
12/29/2023	PERMIT REVISION	3

DRAWN: MR
CHECKED: JMC

SCALE: AS INDICATED

SHEET TITLE: **MECHANICAL SCHEDULES**

SHEET # **M702**

Project Name: MTFA Arlington Courthouse LEVEL 3

Room #	Description	Area ft2	Human Outdoor Air Rate, Rp cfm/person	Area Outdoor Air Rate, Ra cfm/ft2	Occupant Density #/1,000 ft2	Air Distribution Configuration Ez	Required OA (CFM)	TOTAL SUPPLY (CFM)
03000	Men's Toilet (Public)	304	5	0.06	0	0.8	20	0
03001	Corridor	41	5	0.06	0	0.8	5	50
03002	Public Lobby (W)	478	5	0.06	10	0.8	80	345
03003	Janitor's Closet	55	5	0.06	0	0.8	5	0
03ST1	Stair Tower #1	178	5	0.06	0	0.8	15	0
03004	Public Elevator	454	5	0.06	0	0.8	30	0
ELEV 1	Elevator #1	111	5	0.06	0	0.8	10	0
ELEV 2	Elevator #2	109	5	0.06	0	0.8	10	0
ELEV 3	Elevator #3	110	5	0.06	0	0.8	10	0
ELEV 4	Elevator #4	84	5	0.06	0	0.8	10	0
ELEV 5	Elevator #5	83	5	0.06	0	0.8	5	0
ELEV 6	Elevator #6	85	5	0.06	0	0.8	10	0
03005	Comms. / IT	70	5	0.06	0	0.8	5	90
03006	NW Lobby	1,858	5	0.06	10	0.8	165	550
03007 W	Balcony (W)	750	5	0.06	8	0.8	85	350
03007 E	Balcony (E)	765	5	0.06	8	0.8	90	550
03008	NE Lobby	1,851	5	0.06	10	0.8	165	350
03009	Electrical Room	63	5	0.06	0	0.8	5	380
03010	Public Lobby (E)	479	5	0.06	10	0.8	80	345
03011	Public Corridor	59	5	0.06	0	0.8	5	50
03012	Storage Closet	26	5	0.06	0	0.8	5	30
03013	Security Corridor	120	5	0.06	0	0.8	10	0
03014	Women's Toilet (Public)	360	5	0.06	0	0.8	25	0
03ST2	Stair Tower #2	259	5	0.06	0	0.8	20	0
03015	Storage Closet	42	5	0.06	0	0.8	5	30
03016	Public Lobby (SE)	239	5	0.06	10	0.8	65	0
03017	Big Waiting Lobby (SE)	468	5	0.06	30	0.8	180	520
03018	Mechanical Rm	1,131	5	0.06	0	0.8	70	0
03019	Big Waiting Lobby (SW)	469	5	0.06	30	0.8	180	520
03020	Public Lobby (SW)	239	5	0.06	10	0.8	65	0
03100	District Courtroom 3D	1,943	5	0.06	70	0.8	470	2,940
03101	Attorney Room	142	5	0.06	10	0.8	60	140
03102	3D Entrance Vestibule	84	5	0.06	0	0.8	10	50
03103	Witness Lobby	91	5	0.06	10	0.8	60	140
03104	Attorney Room	146	5	0.06	10	0.8	60	140
03105	3A Entrance Vestibule	83	5	0.06	0	0.8	10	50
03106	Witness Lobby	94	5	0.06	10	0.8	60	140
03107	District Courtroom 3A	1,497	5	0.06	70	0.8	440	2,025
03107-B	Dist. "Overhang Area"	432	5	0.06	15	0.8	105	550
03108	Women's Toilet	68	5	0.06	0	0.8	5	50
03109	Conference Rm.	193	5	0.06	50	0.8	265	320
03110	Storage Closet	43	5	0.06	0	0.8	5	30
03111	Corridor	257	5	0.06	0	0.8	20	50
03112	Men's Toilet	68	5	0.06	0	0.8	5	50
03ST4	Stair Tower #4	178	5	0.06	0	0.8	15	0
ELEV 9	Elevator #9	96	5	0.06	0	0.8	10	0
ELEV 10	Elevator #10	94	5	0.06	0	0.8	10	0
DW 2	Dumbwaiter #2	16	5	0.06	0	0.8	5	0
03113	District Courtroom 3B	1,497	5	0.06	70	0.8	440	2,170
03113-B	Dist. "Overhang Area"	757	5	0.06	15	0.8	125	920
03114	Security Corridor	117	5	0.06	0	0.8	10	0
03115	"Holding" Cell	163	5	0.06	1	0.8	15	140
03116	"Holding" Cell	83	5	0.06	1	0.8	10	50
03117	Security Corridor	108	5	0.06	0	0.8	10	50
03118	Interview Rm.	60	5	0.06	2	0.8	15	70
03119	3B Entrance Vestibule	133	5	0.06	0	0.8	10	50
03120	Attorney Conference	158	5	0.06	50	0.8	260	280
03121	Witness Waiting	134	5	0.06	30	0.8	160	200
03122	Meeting Rm.	178	5	0.06	10	0.8	65	120
03123	Cashier	135	5	0.06	2	0.8	20	150
03124	Attorney Meeting Rm	157	5	0.06	10	0.8	60	280
03125	Witness Lobby	163	5	0.06	10	0.8	60	250
03126	3C Entrance Vestibule	133	5	0.06	0	0.8	10	55
03127	District Courtroom 3C	1,507	5	0.06	70	0.8	445	2,400
03127-B	Dist. "Overhang Area"	756	5	0.06	15	0.8	125	1,020
03128	Security Corridor	119	5	0.06	0	0.8	10	0
03129	Women's Toilet	69	5	0.06	0	0.8	5	50
03130	Conference Rm.	191	5	0.06	50	0.8	265	330
03131	Men's Toilet	70	5	0.06	0	0.8	5	50
03132	Corridor	255	5	0.06	0	0.8	20	50
03133	Security Corridor	125	5	0.06	0	0.8	10	50
03ST3	Stair Tower #3	179	5	0.06	0	0.8	15	0
ELEV 7	Elevator #7	95	5	0.06	0	0.8	10	0
ELEV 8	Elevator #8	98	5	0.06	0	0.8	10	0
DW 1	Dumbwaiter #1	17	5	0.06	0	0.8	5	0
03134	Security Corridor	128	5	0.06	0	0.8	10	50
03135	"Holding" Cell	191	5	0.06	1	0.8	20	140
03136	"Holding" Cell	85	5	0.06	1	0.8	15	50
03138	Interview Rm.	72	5	0.06	0	0.8	5	70
03139	Storage Closet	26	5	0.06	0	0.8	5	30
	Total Min. O.A. Required on 3rd Floor						5300	

Project Name: MTFA Arlington Courthouse LEVEL 4

Room #	Description	Area ft2	Human Outdoor Air Rate, Rp cfm/person	Area Outdoor Air Rate, Ra cfm/ft2	Occupant Density #/1,000 ft2	Air Distribution Configuration Ez	Required OA (CFM)	TOTAL SUPPLY (CFM)
04000	Public Elevator Lobby	0	5	0.06	0	0.8	0	0
04000 E	Public Corridor	749	5	0.06	10	0.8	95	515
04000 W	Public Corridor	687	5	0.06	10	0.8	95	560
ELEV 1	Elevator #1	112	5	0.06	0	0.8	10	0
ELEV 2	Elevator #2	110	5	0.06	0	0.8	10	0
ELEV 3	Elevator #3	112	5	0.06	0	0.8	10	0
ELEV 4	Elevator #4	85	5	0.06	0	0.8	10	0
ELEV 5	Elevator #5	84	5	0.06	0	0.8	10	0
ELEV 6	Elevator #6	86	5	0.06	0	0.8	10	0
04000 A	Data Closet	32	5	0.06	0	0.8	5	0
04ST2	Stair Tower #2	222	5	0.06	0	0.8	15	0
04001	Women's Toilet (Public)	300	5	0.06	0	0.8	20	120
04002	Security Corridor	110	5	0.06	0	0.8	10	255
04003	"Holding" Cell	60	5	0.06	1	0.8	10	0
04004	"Holding" Cell	60	5	0.06	1	0.8	10	0
04005	"Holding" Cell	59	5	0.06	1	0.8	10	0
04006	IT Closet	48	5	0.06	0	0.8	5	0
4 A	J & DR Courtroom 4 A (E)	1,167	5	0.06	70	0.8	420	1,270
04A01	J & DR Meeting Rm. (E)	168	5	0.06	10	0.8	65	140
04A02	Judge's Storage	18	5	0.06	0	0.8	5	0
04A03	Clerk Corridor	84	5	0.06	0	0.8	10	60
04007	J & DR Waiting Rm. (E)	295	5	0.06	30	0.8	170	715
04000 S(W)	Public Corridor (SW)	351	5	0.06	10	0.8	75	290
04000 S(E)	Public Corridor (SE)	351	5	0.06	10	0.8	75	290
4 B	J & DR Courtroom 4 B (W)	1,167	5	0.06	70	0.8	425	1,270
04B01	J & DR Meeting Rm. (W)	163	5	0.06	10	0.8	60	140
04008	J & DR Waiting Rm. (W)	291	5	0.06	30	0.8	170	715
04009	IT Closet	91	5	0.06	0	0.8	10	0
04010	Security Corridor	146	5	0.06	0	0.8	10	230
04011	"Holding" Cell	74	5	0.06	1	0.8	10	0
04012	"Holding" Cell	76	5	0.06	1	0.8	10	0
04013	"Holding" Cell	85	5	0.06	1	0.8	15	0
04014	Men's Toilet (Public)	235	5	0.06	0	0.8	15	105
04ST1	Stair Tower #1	178	5	0.06	0	0.8	15	0
04100	Queing	263	5	0.06	10	0.8	70	275
04101	File Viewing Rm.	128	5	0.06	5	0.8	35	85
04102	Unisex Toilet	48	5	0.06	0	0.8	5	0
04103	High Density Storage	287	5	0.06	2	0.8	30	225
04103 A	HDS	56	5	0.06	0	0.8	5	30
04104	ADS	511	5	0.06	4	0.8	55	350
04105 (1)	Open Office (S)	750	5	0.06	5	0.8	70	585
04105 (2)	Open Office (N)	458	5	0.06	3	0.8	45	225
04105 A	Storage Closet	12	5	0.06	0	0.8	5	0
04106	Active Files Storage	97	5	0.06	1	0.8	15	115
04107	Active Files Storage	100	5	0.06	1	0.8	15	125
04108	Records Room	138	5	0.06	2	0.8	20	185
04109	Chief Clerk	188	5	0.06	3	0.8	30	140
04110	Deputy Clerk	167	5	0.06	2	0.8	20	100
04111	Break Rm.	124	5	0.06	2	0.8	20	150
04112	Finance	86	5	0.06	2	0.8	20	95
04113	Janitor's Closet	22	5	0.06	0	0.8	5	0
04200	Security Corridor	126	5	0.06	0	0.8	10	205
04201	Intake Office (8)	77	5	0.06	2	0.8	15	60
04288	Storage Closet	32	5	0.06	0	0.8	5	0
04202	Security Storage	71	5	0.06	0	0.8	5	105
04203	Clerk	120	5	0.06	2	0.8	20	140
04204	Meeting	244	5	0.06	6	0.8	45	305
04ST4	Stair Tower #4	176	5	0.06	0	0.8	15	0
ELEV 9	Elevator #9	98	5	0.06	0	0.8	10	0
ELEV 10	Elevator #10	95	5	0.06	0	0.8	10	0
DW 2	Dumbwaiter #2	16	5	0.06	0	0.8	5	0
04205 (W1)	Judge's Corridor 1 (W)	324	5	0.06	1	0.8	25	370
04205 (W2)	Judge's Corridor 2 (SW)	638	5	0.06	1	0.8	45	870
04206	Unisex Toilet	77	5	0.06	0	0.8	5	55
04205 (E3)	Judge's Corridor 3 (SE)	554	5	0.06	1	0.8	40	750
04205 (E4)	Judge's Corridor 4 (E)	299	5	0.06	1	0.8	25	325
04206	Large Meeting Rm.	250	5	0.06	6	0.8	50	435
04207	Small Meeting Rm.	99	5	0.06	4	0.8	30	165
04ST3	Stair Tower #3	183	5	0.06	0	0.8	15	0
ELEV 7	Elevator #7	102	5	0.06	0	0.8	10	0
ELEV 8	Elevator #8	97	5	0.06	0	0.8	10	0
DW 1	Dumbwaiter #1	16	5	0.06	0	0.8	5	0
04208	Intake (5)	67	5	0.06	2	0.8	15	145
04209	Security Corridor	160	5	0.06	0	0.8	10	60
04300	Intake Lobby	247	5	0.06	10	0.8	65	180
04301	Open Space	507	5	0.06	4	0.8	55	375
04302	Receptionist	63	5	0.06	1	0.8	10	55
04303	Meeting Rm.	153	5	0.06	10	0.8	60	120
04304	Break Rm.	132	5	0.06	2	0.8	20	155
04304 A	Break Rm. Closet	9	5	0.06	0	0.8	5	0
04305	DDP (2)	169	5	0.06	2	0.8	25	95
04306	Intake Supervisor	188	5	0.06	3	0.8	30	145
04307	DDP Supervisor	152	5	0.06	3	0.8	25	225
04308	Intake Office (1)	113	5	0.06	2	0.8	20	160
04309	Intake Office (2)	114	5	0.06	2	0.8	20	145
04310	Intake Office (3)	104	5	0.06	2	0.8	20	65
04311	Doorways	170	5	0.06	3	0.8	30	115
04312	Court Liason	116	5	0.06	2	0.8	20	65
04313	Court Duty Officer	110	5	0.06	1	0.8	15	55
04314	Court Duty Officer	109	5	0.06	1	0.8	15	55
04315	Intake ADA Toilet	55	5	0.06	0	0.8	5	30
04316	Virtual Intake Office	83	5	0.06	3	0.8	20	80
04317	Virtual Intake Office	75	5	0.06	3	0.8	20	80
04318	Conference Rm. (Shared)	317	5	0.06	50	0.8	270	295
	Total Min. O.A. Required on 4th Floor						3535	

NOTE:

BASED ON 2018 VIRGINIA MECHANICAL CODE TABLE 403.3.1.1 MINIMUM VENTILATION RATES EXCEPTION THE MAXIMUM PEOPLE IN ALL COURTROOMS 3A,3B,3C,3D,4A AND 4B WILL NOT EXCEED 18 PEOPLE. 2

MTFA architecture

3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.8730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
12/29/2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
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08/16/2023	PERMIT SET	
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12/12/2023	PERMIT REVISION	2
12/29/2023	PERMIT REVISION	3

DRAWN: MR
CHECKED: JMC
SCALE: AS INDICATED

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET #
M703

GENERAL NOTES

1. SCOPE: FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES AND SKILLED SUPERVISION NECESSARY TO PROVIDE, INSTALL, TEST AND ADJUST AND PLUMBING SYSTEMS COMPLETE, OPERATIONAL, AND READY FOR USE, AS INDICATED IN THESE DRAWINGS AND SPECIFICATIONS.

2. PERMITS, LICENSES & FEES: PAY ALL REQUIRED FEES AND OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR LEGAL REMOVAL AND INSTALLATION OF THE WORK.

3. APPLICABLE CODES AND STANDARDS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND ANY REGULATIONS EFFECTIVE IN THE PROJECT JURISDICTION. ALL CODE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR RESOLUTION. APPLICABLE CODES AND STANDARDS ON THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

   A. VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC) 2018
   B. INTERNATIONAL BUILDING CODE (IBC) 2018
   C. INTERNATIONAL MECHANICAL CODE (IMC) 2018
   D. INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018
   E. INTERNATIONAL PLUMBING CODE (IPC) 2018
   F. NFPA 70 2017

4. DRAWING ACCURACY: LOCATIONS AND SIZES OF EQUIPMENT, PIPING, DUCTWORK, OUTLETS, FIXTURES, AND DEVICES SHOWN ON DRAWINGS ARE APPROXIMATE. DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO BE SCALED. WHEN INDICATED, ALL WORK SHALL BE PHYSICALLY LOCATED IN ACCORDANCE WITH ANNOTATED DIMENSIONS ON ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

5. COORDINATION: CONTRACTOR SHALL COORDINATE AND SEQUENCE THE WORK OF ALL DIVISIONS AND TRADES PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK AND RACEWAYS. COORDINATE THE LOCATION OF ALL NEW EQUIPMENT, DUCTWORK, AND DEVICES WITH NEW STRUCTURE AND EQUIPMENT BEFORE FABRICATION. MAKE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COORDINATED INSTALLATION.

6. COORDINATED SHOP DRAWINGS: THE CONTRACTOR SHALL PROVIDE COORDINATED INSTALLATION SHOP DRAWINGS, INCLUDING SECTIONS AND ELEVATIONS, WITH MINIMUM SCALE OF 1/4", FOR ALL MECHANICAL ROOMS, ELECTRICAL ROOMS AND CLOSETS, COMMUNICATIONS ROOMS AND CLOSETS, PIPING AND DUCT SHAFTS, AND OTHER CEILING SPACES, WALLS, RAISED FLOORS, OR CHASES WHERE THE WORK OF DIFFERENT TRADES ARE IN CLOSE PROXIMITY OR SPACE CONDITIONS ARE LIMITED. DRAWINGS SHALL SHOW DUCTWORK, PLUMBING PIPING, SPRINKLER PIPING, CABLE TRAYS, PULL BOXES, CONDUITS, LIGHT FIXTURES, SUSPENDED CEILINGS, AND STRUCTURAL ELEMENTS WITHIN THE SPACE DESIGNATED FOR MECHANICAL AND ELECTRICAL WORK. SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO STARTING INSTALLATION IN ACCORDANCE WITH DIVISION 1 OF THE SPECIFICATIONS. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO STARTING INSTALLATION.

7. MATERIALS: MANUFACTURERS AND CATALOG NUMBERS ARE USED HERE STRICTLY AS A BASIS OF DESIGN REFERENCE. THEY REPRESENT THE TYPE, SIZE, CONSTRUCTION, PERFORMANCE, AND LEVEL OF QUALITY DESIRED. EQUIPMENT FROM OTHER MANUFACTURERS THAT MATCH OR SURPASS THE CHARACTERISTICS OF THOSE REFERENCED WILL BE ACCEPTABLE SUBJECT TO APPROVAL BY THE DESIGN TEAM AND COR REPRESENTATIVE.

8. SUBMITTALS AND SUBSTITUTIONS: CONTRACTOR SHALL PROVIDE PRODUCT INFORMATION, SHOP DRAWINGS, DOCUMENTS AND WARRANTIES FOR MATERIALS AND SERVICES TO THE COR FOR APPROVAL. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PERMISSION OF THE COR'S REPRESENTATIVE IN WRITING. SUBSTITUTE MATERIAL SHALL BE COMPATIBLE WITH OTHER COMPONENTS OF THE SYSTEM.

9. INSTALLATION OF NEW WORK: INSTALLATION OF EQUIPMENT, DUCTWORK, PIPING, FIXTURES, ETC. SHALL BE DONE IN NEAT AND WORKMANLIKE MANNER, AND SHALL CONFORM TO THE LATEST TRADE PRACTICES. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY EXACT LOCATION OF EQUIPMENT, FIXTURES, ETC.

10. DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF THE CONTRACT. DESIGN DRAWINGS ARE NOT TO BE CONSIDERED AS SUBSTITUTION TO SHOP DRAWINGS. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW TO COMPLETE THE INTENT OF THE CONTRACT. THE RIGHT IS RESERVED BY THE ENGINEER TO MAKE MINOR CHANGES IN LOCATIONS AND ARRANGEMENTS WHEN REQUIRED BY JOB DEVELOPMENT WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

11. MOUNTING HEIGHTS: COORDINATE MOUNTING HEIGHTS OF DEVICES ON FINISHED WALLS TO PROVIDE A NEAT AND SYMMETRICAL APPEARANCE. SEE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR HEIGHTS AND LOCATIONS OF EQUIPMENT. DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO CENTERLINE OF EQUIPMENT.

12. WARNING SIGNS: PROVIDE SIGNS, BARRICADES, GUARDS, AND PROTECTION FOR SAFETY DURING CONSTRUCTION. WORK AREA SHALL BE KEPT CLEAN, CLEAR OF OBSTRUCTIONS, WELL ILLUMINATED, AND UNDER ORGANIZED MATERIAL STORAGE, IN ACCORDANCE WITH OSHA REQUIREMENTS.

13. FIRE STOPPING: REFER TO ARCHITECTURAL PLANS FOR DETAILS AND REQUIREMENTS FOR CONDUIT AND PIPING PENETRATIONS THROUGH RATED WALLS, FLOORS AND CEILINGS.

14. REPAIR: ALL WORK SHALL BE DONE IN SUCH A MANNER TO MINIMIZE DAMAGE TO ADJACENT EQUIPMENT, PIPING, DUCTWORK, WIRING, FIXTURES, CONSTRUCTION, FINISHES AND STRUCTURE. ANY DAMAGE RESULTING FROM WORK UNDER THIS PROJECT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE COR AT NO ADDITIONAL COST.

15. CLEANING & MATERIAL DISPOSITION: CLEAR ALL DEBRIS FROM THE AREA OF WORK AND LEAVE SITE IN CLEAN CONDITION. CLEAN ALL EQUIPMENT ENCLOSURES, INSIDE AND OUTSIDE. ALL MATERIAL AND EQUIPMENT AND DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.

16. CUTTING & PATCHING: PERFORM CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF THIS WORK. SEAL UNUSED PENETRATIONS RESULTING FROM DEMOLITION FOR THIS WORK. RESTORE SURFACES TO ADJACENT FINISH AND CONDITION.

17. PROVIDE DIELECTRIC PIPING UNIONS BETWEEN DISSIMILAR METALS.

18. PIPING SHALL NOT COME INTO DIRECT CONTACT WITH CONCRETE OR STRUCTURE IN ANY LOCATION.

19. EXTENSIONS OF, AND NEW CONNECTIONS TO, EXISTING PIPING SYSTEMS SHALL BE MADE WITH MATERIALS OF SAME TYPE, RATING, AND COMPOSITION AS EXISTING PIPING, UNLESS OTHERWISE IDENTIFIED HEREIN.

20. VALVES AND PIPING ACCESSORIES SHALL BE IN LINE SIZE. PROVIDE SUPPLY STOP VALVES AT ALL NON-FLUSH VALVE TYPE FIXTURES.

21. CONTRACTOR IS PROHIBITED FROM USING LEAD-BASED SOLDER.

22. ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH ESCUTCHEONS AT PENETRATION. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE INSTALLED WITH FIRE RATED SEALS AS REQUIRED BY ARCHITECT AND AUTHORITY HAVING JURISDICTION.

23. PROVIDE ACCESS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRE PERIODIC SERVICE.

24. FLOOR / SHOWER DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. PIPING ABOVE GRADE SHALL BE PROPERLY, INDEPENDENTLY SUPPORTED FROM BUILDING STRUCTURE AND SHALL NOT REST ON CEILING MEMBRANE STRUCTURE OR OTHER COMPONENTS.

25. PLUMBING EQUIPMENT, PIPING, INSULATION, ETC., INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE DEVELOPMENT AND COMBUSTIBILITY.

26. PROVIDE SHUTOFF VALVES ON BRANCH PIPING AND SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. VALVES SHALL BE INSTALLED WITH STEM UP. VALVES INSTALLED SHALL BE PERMANENTLY ACCESSIBLE FOR VALVES 76.2 mm Ø DIAMETER AND SMALLER AND SHALL BE CHAIN OPERATED FOR VALVES LARGER THAN 76.2mm Ø.

27. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

28. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIXTURES AND EQUIPMENT.

29. SLOPE HORIZONTAL WASTE PIPING AS FOLLOWS: 2-1/2" DIAMETER AND SMALLER @2%, 3" DIAMETER AND LARGER @1% IN DIRECTION OF FLOW.

30. ALL COMPONENTS SHALL BE RESTRAINED FOR SEISMIC DESIGN CATEGORY D IN ACCORDANCE WITH ASCE 7-2010

PLUMBING SYSTEM TYPES

SYMBOL	DESCRIPTION
—— – ——	DOMESTIC COLD WATER
—— – – ——	DOMESTIC HOT WATER
—— – – – ——	DOMESTIC HOT WATER RECIRCULATION
—— PD ——	PUMPED DISCHARGED
– – V – –	SANITARY VENT
—— SAN ——	SANITARY WASTE
– – SAN – –	SANITARY WASTE BELOW SLAB
—— SD ——	STORM DRAIN
—— SOD ——	STORM OVERFLOW DRAIN
– – – – –	SUB-SOIL DRAINAGE

PLUMBING PIPING SYMBOLS

- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE GAUGE
- STRAINER
- THERMOMETER
- PIPE TURNED DOWN
- PIPE TURNED UP
- PIPE CAP
- BLIND FLANGE
- TEE
- TEE TURNED DOWN
- TEE TURNED UP
- PIPE TRANSITION
- PTRAP
- FLOOR DRAIN WITH PTRAP

NOTE: ALL ABBREVIATIONS AND SYMBOLS MAY NOT BE USED.

GENERAL SYMBOLS

- 1 — NEW WORK KEYNOTE
- 1 — DEMOLITION KEYNOTE
- 1 / XXX — SECTION VIEW. NUMBER DENOTES SECTION NUMBER AND X DENOTES DRAWING NUMBER
- D / M–X | A–X — CALLOUT. "D" INDICATES VIEW NUMBER; M-X INDICATES DRAWING NUMBER; A-X INDICATES LOCATION WHERE DETAIL IS LOCATED
- CONNECTION POINT NEW TO EXISTING
- END OF DEMOLITION

NOTE: ALL ABBREVIATIONS AND SYMBOLS MAY NOT BE USED.

ABBREVIATIONS

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CO	CLEANOUT
COR	CONTRACTING OFFICER REPRESENTATIVE
CP	CONTROL PANEL
DCW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATING
(E)	EXISTING
(ER)	EXISTING TO REMAIN
ELEV	ELEVATION
FD	FLOOR DRAIN
FOC	FLOOR CLEANOUT
FS	FLOOR SINK
HB	HOSE BIB
HUD	HUB DRAIN (OPEN DRAIN)
ICC	INTERNATIONAL CODE COUNCIL
IW	INDIRECT WASTE
KS	KITCHEN SINK
LAV	LAVATORY
LP	LIQUID PROPANE
MS	MOP SINK
NG	NATURAL GAS
OD	OVERFLOW DRAIN
PD	PUMP DISCHARGE
PF	PENAL FIXTURE
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE
S	SINK
SAN	SANITARY
SD	STORM DRAIN
SH	SHOWER DRAIN
TMV	THERMOSTATIC MIXING VALVE
URN	URINAL
UON	UNLESS OTHERWISE NOTED
V	VENT
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT

NOTE: NOT ALL ABBREVIATIONS INDICATED ABOVE ARE USED ON THIS PROJECT.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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CHECKED: JC
SCALE: AS INDICATED

SHEET TITLE: GENERAL NOTES, SYMBOLS & ABBREVIATIONS

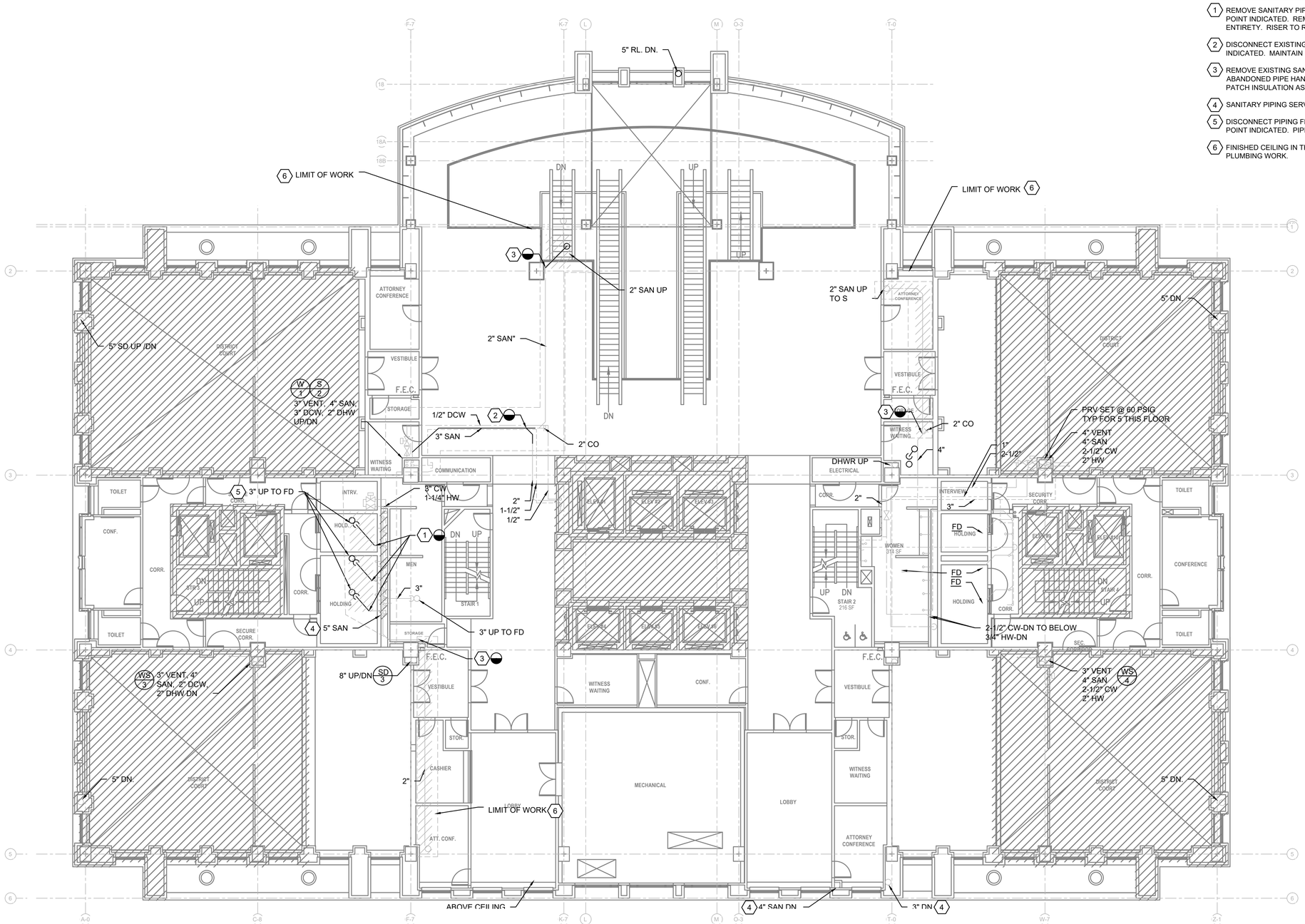
SHEET # **P001**

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. ALL PIPING SHOWN HERE IS LOCATED ABOVE THE THIRD FLOOR FINISHED CEILING.
4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

DEMOLITION NOTES:

1. REMOVE SANITARY PIPING ABOVE CEILING FROM 4TH FLOOR FIXTURE TO RISER AT POINT INDICATED. REMOVE ABANDONED PIPE HANGERS AND SUPPORTS IN THEIR ENTIRETY. RISER TO REMAIN.
2. DISCONNECT EXISTING 4TH FLOOR DRINKING FOUNTAIN DISCHARGE AT POINT INDICATED. MAINTAIN PIPING FOR REUSE.
3. REMOVE EXISTING SANITARY PIPE BACK TO POINT INDICATED. REMOVE ABANDONED PIPE HANGERS AND SUPPORTS IN THEIR ENTIRETY. CAP PIPING, PATCH INSULATION AS NECESSARY.
4. SANITARY PIPING SERVING 4TH FLOOR PRIVATE RESTROOM GROUP TO REMAIN.
5. DISCONNECT PIPING FROM FLOOR DRAIN ON 4TH FLOOR AND REMOVE BACK TO POINT INDICATED. PIPING TO REMAIN FOR REUSE.
6. FINISHED CEILING IN THIS AREA WILL NEED TO BE REMOVED TO FACILITY PLUMBING WORK.



1 3RD FLOOR PLAN PLUMBING - DEMOLITION

Scale: 1/8"=1'-0

MTFA architecture

3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
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Technology/AV/Security
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Warrenton, VA 20187
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JOHN M. CHANEY, JR.
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SHEET TITLE:
FLOOR PLAN LEVEL 3 PLUMBING - DEMOLITION

SHEET #

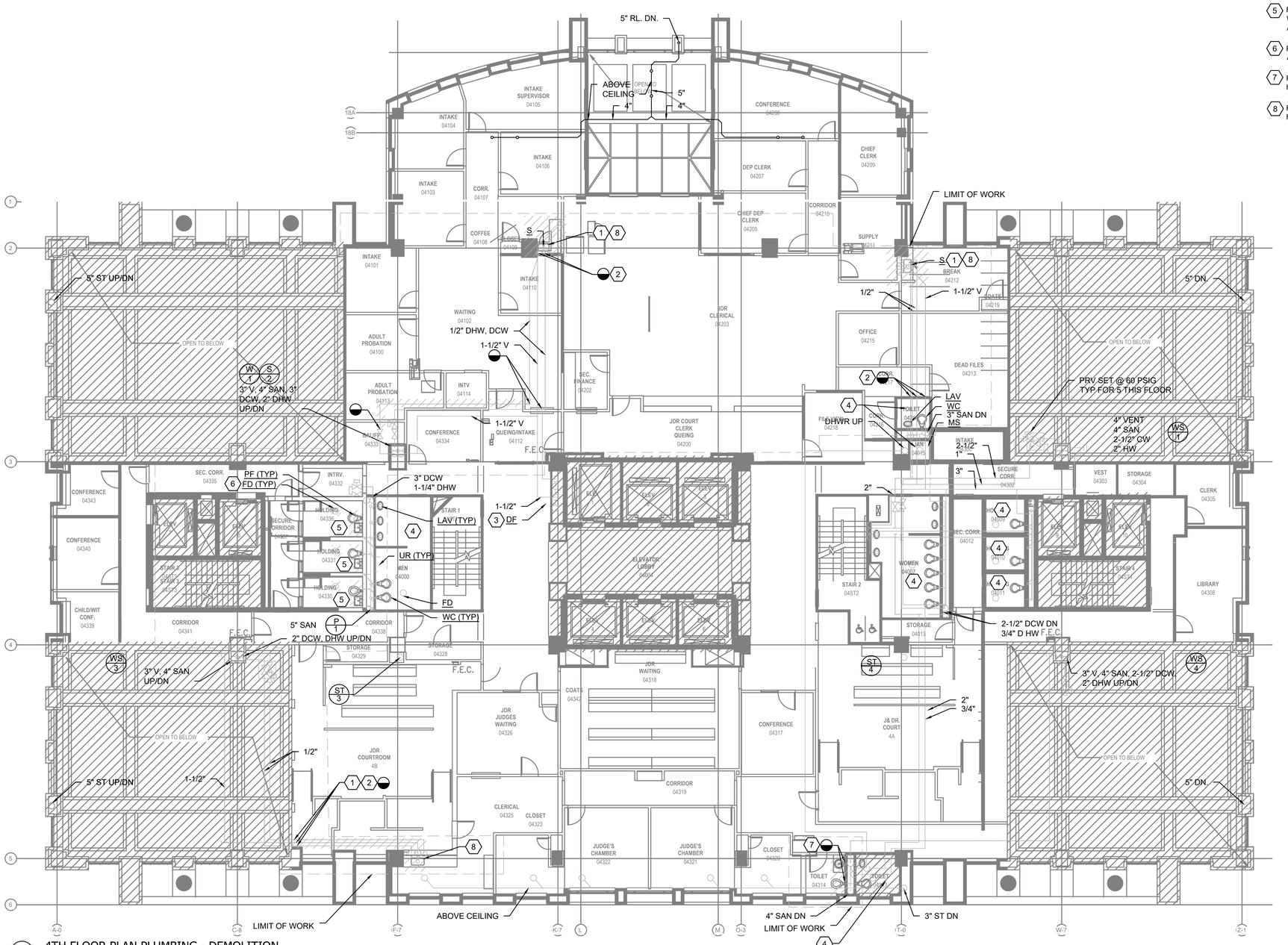
P101

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
4. HATCHED AREA INDICATED DEMOLITION UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

1. REMOVE DOMESTIC HOT WATER AND COLD WATER PIPING FROM FIXTURE BACK TO POINT INDICATED. INSULATION AND HANGERS TO BE REMOVED IN THEIR ENTIRETY. PROVIDE ISOLATION VALVE FOR FUTURE USE.
2. REMOVE VENT FROM FIXTURE BACK TO POINT INDICATED.
3. DRINKING FOUNTAIN TO REMAIN FOR REUSE. MAINTAIN SANITARY, VENT, AND DOMESTIC COLD WATER LINE.
4. FIXTURES IN THIS AREA TO REMAIN.
5. REMOVE PENAL FIXTURE, MAINTAIN COMPRESSED AIR PIPING, DOMESTIC COLD WATER, DOMESTIC HOT WATER PIPING FOR REUSE. PATCH SLAB AND PARTITION AS REQUIRED. SEE ARCHITECTURE FOR ADDITIONAL INFORMATION.
6. REMOVE FLOOR DRAIN. PATCH SLAB AS REQUIRED. SEE ARCHITECTURE FOR ADDITIONAL INFORMATION.
7. REMOVE FIXTURE AND ACCESSORIES. CUT AND CAP DOMESTIC COLD, DOMESTIC HOT WATER, AND SANITARY PIPING AT WALL.
8. REMOVE SANITARY LINE FROM FIXTURE BACK TO SLAB. PATCH SLAB AS REQUIRED.



1 4TH FLOOR PLAN PLUMBING - DEMOLITION
Scale: 1/8"=1'-0

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
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4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
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10/06/2023	PERMIT REVISION	1

DRAWN: MR
CHECKED: JC
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SHEET TITLE:
FLOOR PLAN LEVEL 4 PLUMBING - DEMOLITION

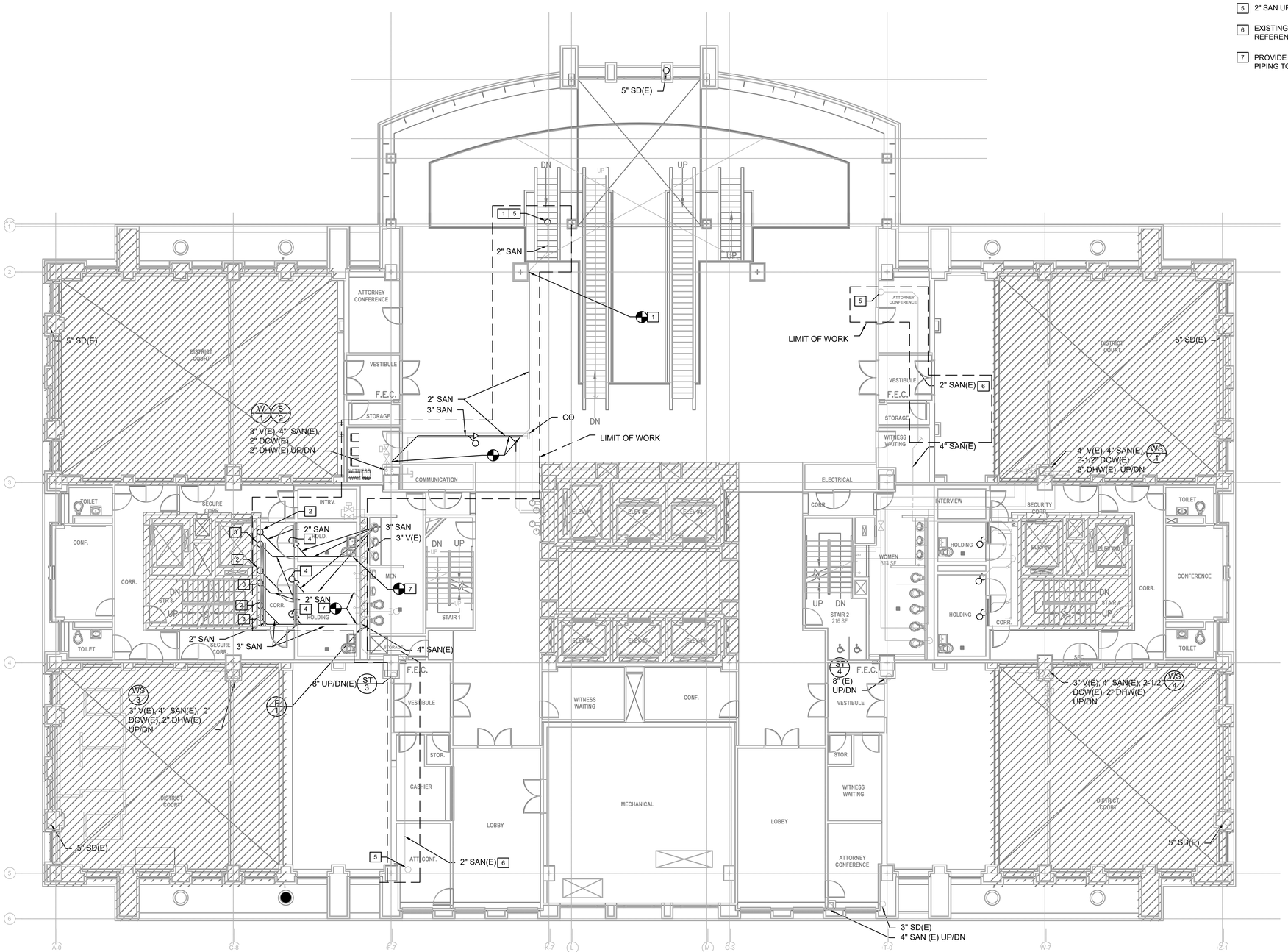
SHEET #
P102

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING, GRID, AND TILE REPLACEMENT REQUIREMENTS.
3. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NEW WORK NOTES

1. ROUTE SANITARY LINE ABOVE CEILING AS SHOWN. CONNECT TO EXISTING RISER AT LOCATION INDICATED.
2. 2" SAN UP TO PF-1.
3. 3" SAN UP TO PF-2.
4. 3" SAN UP TO PF-3
5. 2" SAN UP TO 4TH FLOOR
6. EXISTING PIPING TO REMAIN; PROVIDE LABEL AND SLOPE DIRECTION FOR FUTURE REFERENCE.
7. PROVIDE NEW SANITARY LINE ABOVE FINISHED CEILING FROM EXISTING BRANCH PIPING TO NEW PENAL FIXTURES.



1 3RD FLOOR PLAN PLUMBING - NEW WORK
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3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

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ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

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Codetta, LLC
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Cost Estimator
Downey & Scott, LLC
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Warrenton, VA 20187
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SHEET TITLE:
FLOOR PLAN LEVEL 3 PLUMBING - NEW WORK

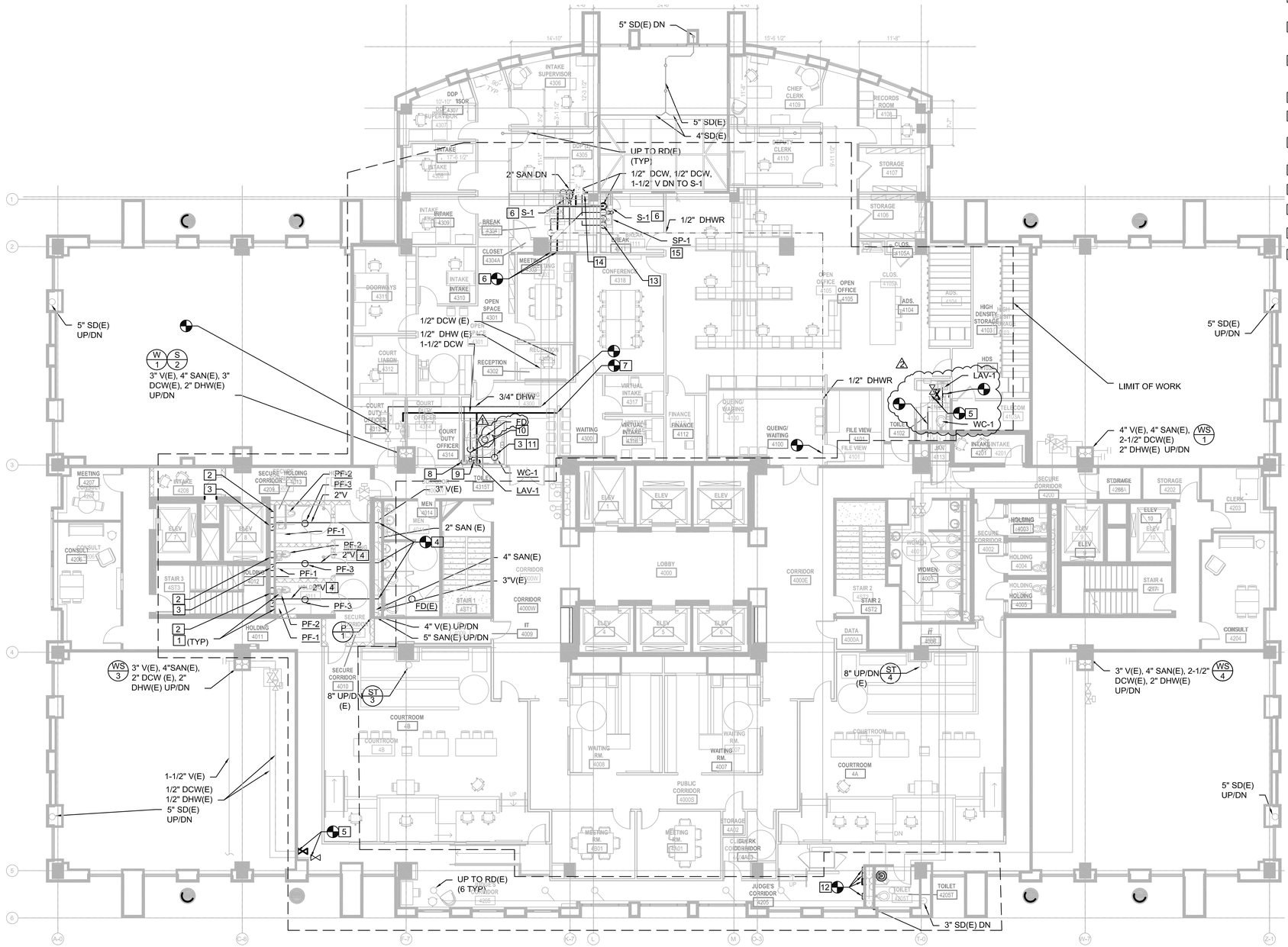
SHEET #
P103

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING, GRID , AND TILE REPLACEMENT REQUIREMENTS.
3. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. INSULATE AND LABEL ALL PIPING.
5. DOMESTIC COLD WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN, VENT PIPING SHOWN HERE SERVE 4TH FLOOR. ALL PIPING IS LOCATED ABOVE FINISHED CEILING UNLESS OTHERWISE
6. PIPING SHOWN OFFSET FOR CLARITY.

NEW WORK NOTES

1. PROVIDE PENAL FIXTURE AT LOCATION INDICATED. EXTEND EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, AND COMPRESSED AND CONNECT TO FIXTURE. ROUTE ABOVE CEILING AND WITHIN NEW CHASE AS SHOWN.
2. 3" SANITARY FOR PF-2 DOWN TO 3RD LEVEL.
3. 2" SANITARY FOR PF-1 DOWN TO 3RD LEVEL.
4. 2" CIRCUIT VENT SERVES PF-1, PF-2, PF-3. ROUTE AS SHOWN FROM PF-1 AND TIE IN TO EXISTING VENT WITHIN CHASE.
5. PROVIDE ISOLATION VALVE AND CAP ABOVE FINISHED CEILING FOR FUTURE USE. LABEL PIPING AND TAG.
6. PROVIDE NEW DOMESTIC COLD WATER, AND DOMESTIC HOT WATER PIPING ABOVE CEILING FOR NEW FIXTURES. ROUTE PIPING AS SHOWN AND CONNECT TO EXISTING RISERS AT LOCATION INDICATED.
7. AT LOCATION INDICATED, CONNECT EXISTING DRINKING FOUNTAIN DOMESTIC COLD WATER LINE TO NEW DISTRIBUTION BRANCH AND CONNECT EXISTING VENT PIPE FROM DRINKING FOUNTAIN TO NEW VENT.
8. 3/4" DHW DOWN TO LAVATORY. ROUTE PIPING WITHIN PARTITION.
9. 1" DCW DOWN TO LAVATORY AND WATER CLOSET. ROUTE PIPING WITHIN PARTITION.
10. 1-1/2" V DN TO LAVATORY. ROUTE LAVATORY SANITARY PIPE AND COMBINE WITH WATER CLOSET DISCHARGE.
11. 1-1/2" V DN TO WATER CLOSET.
12. CAP PIPING AT LOCATION INDICATED WITHIN CHASE.
13. 1-1/2" SAN DOWN TO SUMP PUMP UNDER THE SINK FOR DISCHARGE TO BE PUMPED UP OVER THE STACK.
14. 1-1/2" SAN DOWN.
15. SP-1 LOCATED UNDER COUNTER FOR S-1 AND DISHWASHER. ROUTE DISCHARGE ABOVE FINISHED CEILING TO SINK IN ROOM 04108; CONNECT TO 2" SAN WITHIN PARTITION.



1 4TH FLOOR PLAN PLUMBING - NEW WORK
Scale: 1/8"=1'-0

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
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Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

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JOHN M. CHANEY, JR.
Lic. No. 20696
12/12/2023
PROFESSIONAL ENGINEER

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SHEET TITLE:
FLOOR PLAN LEVEL 4 PLUMBING - NEW WORK

SHEET #
P104

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE	FIXTURE UNITS				PIPE DIAMETER (IN.)				FLOW (GPM/GPF)	BASIS OF DESIGN		REMARKS
		COLD (WSFU)	HOT (WSFU)	TOTAL (WSFU)	DRAIN (DFU)	CW	HW	DRAIN	VENT		MANUFACTURER	MODEL	
DF	DRINKING FOUNTAIN	0.25	0	0.25	0.25	1/2	-	1-1/2	1-1/2	0.5	-	-	EXISTING TO REMAIN
LAV-1	LAVATORY PRIVATE	0.5	0.5	0.7	1	1/2	1/2	1-1/2	1-1/2	0.5	TOTO	LT307.4	WALL MOUNTED VITREOUS CHINA, 4-INCH ON CENTER HOLES. CONCEALED ARM CARRIER. PROVIDE GRID STRAINER DRAIN, AUTOMATIC FAUCET WITH HYDRO GENERATOR, THERMOSTATIC MIXING VALVE SET TO 100F MAX. ADA COMPLIANT
											TOTO	TEL105	
PF-1	LAVATORY PRIVATE	0.5	0.5	0.7	1	1/2	1/2	1-1/2	1-1/2	1.5	ACORN	LR1449FA	ADA COMPLIANT FRONT ACCESS COMBY WITH OFFSET TOILET AND D-SHAPED LAVATORY BOWL. FIXTURE IS ON THE FLOOR, WALL WASTE.
PF-2	PRIVATE WATER CLOSET	6	0	6	2	3/4	3/4	3	1-1/2	1.5	ACORN		
PF-3	FLOOR DRAIN	-	-	-	3	-	-	3	-	-	ZURN	Z355	TRAP PRIMER CONNECTION. STRAINER SIZE - 6" ROUND SECURITY TYPE
S-1	PANTRY SINK	1	1	1.4	1	1/2	1/2	2	1-1/2	1.5	KOHLER	K-3996-4	36"X22" COUNTER TOP STAINLESS STEEL, DOUBLE BASIN SINK WITH CUP STRAINERS. PROVIDE WASTE DISPOSER UNIT IN RIGHT COMPARTMENT. PROVIDE THERMOSTATIC CONTROL VALVE WITH INTEGRAL CHECK VALVES, SCREENS AND ADJUSTMENT NUT WITH LOCKING DEVICE.
											KOHLER	K-10415	SWING SPOUT WITH AERATOR,.
WC-1	PRIVATE WATER CLOSET	6	0	6	6	1	-	2	1-1/2	0.125	AMERICAN STANDARD	6561.017	WHITE VITREOUS CHINA, WALL-MOUNTED AT ACCESSIBLE HEIGHT, SEE ARCHITECTURAL ELEVATIONS, WALL OUTLET, SIPHON JET AND EXTENDED SIDE SHIELD.
											SLOAN	606B.721	AUTOMATIC SOLENOID-ACTIVATED HARDWIRED VALVE WITH OVERRIDE PUSH BUTTON. EPA "WATER SENSE" LABELED.

NOTES:
1. PROVIDE THEROMSTATIC MIXING VALVE

PUMP SCHEDULE

MARK	LOCATION	SYSTEM	GPM	HEAD	TYPE	BASIN		ELECRICAL				REMARKS
						SIZE (IN)	GALLONS	HP	RPM	FLA	VOLT/PH	
SP-1	UNDER COUNTER	GREY WATER	10	30'	-	13-3/4" DIA	4.3	1/2	1/2	5.2	115/1	PUMP AND BASIN PACKAGE WITH 10 FOOT CORD, ALARM AND CHECK VALVE. LIBERTY MODEL 404/A

MTFA architecture
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ARLINGTON, VA 22201

Structural
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MEP / FP
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SHEET TITLE: **PLUMBING SCHEDULES**

SHEET # **P701**

GENERAL NOTES

GENERAL NOTES

1. NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED ON THIS DRAWING ARE USED ON THIS PROJECT.

2. SCOPE OF WORK: FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES AND SKILLED SUPERVISION NECESSARY TO PROVIDE, INSTALL, TEST AND ADJUST ALL MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS TO BE COMPLETE, OPERATIONAL AND READY FOR USE, AS INDICATED IN THESE DRAWINGS AND/OR SPECIFICATIONS.

3. PERMITS, LICENSES AND FEES: PAY FOR ALL REQUIRED FEES AND OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR THE LEGAL REMOVAL AND INSTALLATION OF THE WORK.

4. APPLICABLE CODES AND STANDARDS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND ANY REGULATIONS EFFECTIVE IN THE PROJECT JURISDICTION. ALL CODE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR RESOLUTION. THE APPLICABLE CODES AND STANDARDS ON THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
   A. ICC. INTERNATIONAL BUILDING CODE 2018
   B. VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC 2018)
   C. VIRGINIA STATEWIDE FIRE PREVENTION CODE 2018
   D. INTERNATIONAL FIRE CODE (IFC) 2018
   E. VIRGINIA ENERGY CONSERVATION CODE 2018
   F. NATIONAL ELECTRICAL CODE (NEC) 2017
   G. NFPA-72/16

5. DRAWING ACCURACY: THE LOCATION AND SIZES OF EXISTING EQUIPMENT, PIPING, OUTLETS, FIXTURES AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE VERIFIED AT THE PROJECT SITE. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED. WHEN INDICATED, ALL WORK SHALL BE PHYSICALLY LOCATED IN ACCORDANCE WITH THE ANNOTATED DIMENSIONS ON THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.

6. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF THE CONTRACT. THE DESIGN DRAWINGS ARE NOT TO BE CONSIDERED A SUBSTITUTION TO THE SHOP DRAWINGS. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW, TO COMPLETE THE INTENT OF THE CONTRACT. THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR ADJUSTMENTS/CHANGES IN LOCATIONS AND ARRANGEMENTS WHEN REQUIRED BY THE JOB DEVELOPMENT WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.

7. PROJECT SITE VISIT: THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS, EQUIPMENT, PIPING, WIRING, CONSTRUCTION, FINISHES, AND STRUCTURE PRIOR TO THE COMMENCEMENT OF WORK. WHEN ANY DISCREPANCY OR CONFLICT IS DETECTED AT THE PROJECT SITE, THE OWNER REPRESENTATIVE, AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY PRIOR TO COMMENCING OF THE WORK.

8. COORDINATION: CONTRACTOR SHALL COORDINATE AND SEQUENCE THE WORK OF ALL DIVISIONS AND TRADES PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK AND RACEWAYS. COORDINATE THE LOCATION OF ALL NEW EQUIPMENT, DUCTWORK, PLUMBING FIXTURES, AND DEVICES WITH THE BUILDING STRUCTURE AND NEW EQUIPMENT BEFORE FABRICATION. THE INSTALLATION SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL CONFORM TO THE LATEST TRADE PRACTICES. REFER TO THE ARCHITECTURAL DRAWINGS TO VERIFY THE EXACT LOCATION OF THE EQUIPMENT AND/OR FIXTURES. MAKE THE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COMPLETE AND COORDINATED INSTALLATION.

9. MOUNTING HEIGHTS: COORDINATE THE MOUNTING HEIGHTS OF DEVICES TO BE LOCATED ON FINISH WALLS TO PROVIDE A CLEAN AND SYMMETRICAL APPEARANCE. REFER TO THE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR HEIGHTS AND LOCATIONS OF EQUIPMENT. DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO THE CENTERLINE OF THE EQUIPMENT.

10. MATERIALS/SUBMITTALS/SUBSTITUTIONS: MANUFACTURERS AND CATALOGUE NUMBERS ARE USED HEREIN STRICTLY AS A REFERENCE. THEY REPRESENT THE TYPE, SIZE, CONSTRUCTION, PERFORMANCE, AND LEVEL OF QUALITY REQUIRED. EQUIPMENT FROM OTHER MANUFACTURERS (SUBSTITUTIONS) THAT MATCH OR SURPASS THE CHARACTERISTICS OF THOSE REFERENCED ON THE DRAWINGS WILL BE ACCEPTABLE, SUBJECT TO WRITTEN APPROVAL BY THE OWNER REPRESENTATIVE AND THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A SUBSTITUTION REQUEST ALONG WITH A COMPARISON TABLE LISTING THE CAPACITIES AND FEATURES OF THE BASIS OF DESIGN EQUIPMENT AND THOSE OF THE PROPOSED SUBSTITUTION EQUIPMENT/DEVICE FOR REVIEW AND APPROVAL.

11. BUILDING SERVICE INTERRUPTION: THE CONTRACTOR SHALL NOTIFY THE OWNER REPRESENTATIVES, AND THE ARCHITECT IN ADVANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR THE PROJECT REQUIREMENTS LISTED ON THESE DRAWINGS, AND SHALL OBTAIN WRITTEN AUTHORIZATION. A MINIMUM OF 7 DAYS PRIOR TO THE INTERRUPTION OF ANY BUILDING SERVICE. THE CONTRACTOR SHALL COORDINATE THE TIME AND DURATION OF THE SERVICE INTERRUPTION WITH THE OWNER, AND ARCHITECT.

12. CLEANING & MATERIAL DISPOSITION: OWNER HAS FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE MATERIALS. ALL OTHER MATERIAL AND DEBRIS ACCUMULATED AS A RESULT OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER, IN ACCORDANCE WITH APPLICABLE REGULATIONS. CLEAR ALL DEBRIS DAILY FROM THE AREA OF WORK AND LEAVE THE SITE IN CLEAN CONDITION. CLEAN ALL EQUIPMENT ENCLOSURES, INSIDE AND OUTSIDE.

13. CUTTING & PATCHING: PERFORM CUTTING AND PATCHING AS NECESSARY FOR THE INSTALLATION OF THIS WORK. SEAL UNUSED PENETRATIONS RESULTING FROM DEMOLITION FOR THIS WORK. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER TO MINIMIZE DAMAGE TO ADJACENT EQUIPMENT, PIPING, DUCTWORK, WIRING, FIXTURES, CONSTRUCTION, FINISHES AND STRUCTURE, AND BE ACCEPTABLE TO THE OWNER'S REPRESENTATIVES. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH NECA-1 AND SHALL CONFORM TO ALL APPLICABLE CODES, REGULATIONS AND MANUFACTURER'S RECOMMENDATIONS. RESTORE SURFACES TO MATCH THE EXISTING ADJACENT FINISHES AND CONDITIONS.

14. DIMENSIONS: THE DIMENSIONS SHOWN ON THE PLANS ARE HORIZONTAL. THE DIMENSIONS SHOWN ON ELEVATIONS ARE VERTICAL.

15. CONCEALED COMPONENTS: PROVIDE ACCESS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRED PERIODIC ACCESS. COORDINATE THE SIZE AND LOCATION OF ACCESS PANELS AND LABELS WITH THE ARCHITECTURAL DRAWINGS AND WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND/OR REQUIREMENTS.

16. INTERFERENCES: ANY INTERFERENCE ENCOUNTERED AT THE PROJECT SITE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER REPRESENTATIVE AND ARCHITECT/ENGINEER OF RECORD AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF ANY NEW WORK.

17. INSTALLATION OF NEW WORK: THE INSTALLATION OF EQUIPMENT AND MATERIALS SHALL ADHERE TO THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. ALL SERVICE AND CODE REQUIRED CLEARANCES SHALL BE MAINTAINED, WHETHER INDICATED ON THE DRAWINGS OR NOT. THE INSTALLATION OF EQUIPMENT, DUCTWORK, PIPING, FIXTURES, ETC. SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER, AND SHALL CONFORM TO THE LATEST TRADE PRACTICES. REFER TO THE ARCHITECTURAL DRAWINGS TO VERIFY THE EXACT LOCATION OF EQUIPMENT, FIXTURES, ETC. COORDINATE THE DUCTWORK AND PIPING INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO FABRICATION. MAKE THE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COORDINATED AND COMPLETELY FUNCTIONAL INSTALLATION.

18. PLENUM SPACES: ALL MECHANICAL, PLUMBING AND/OR ELECTRICAL EQUIPMENT, PIPING, INSULATION, WIRING, ETC. INSTALLED IN ACTIVE PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY RATINGS.

19. COORDINATED DRAWINGS: PROVIDE COORDINATED DRAWINGS COVERING THE AREAS OF WORK, INDICATING ALL FLOOR SLAB PENETRATIONS, CONNECTIONS TO FIXTURES, AND TO EQUIPMENT (AND KITCHEN EQUIPMENT). THE COORDINATED DRAWINGS SHALL INCLUDE BUT NOT BE LIMITED TO DUCTWORK, HVAC PIPING, DOMESTIC AND SANITARY PIPING, VENT, STORM AND GAS PIPING, MAJOR ELECTRICAL CONDUITS AND JUNCTION BOXES, AS APPLICABLE. SUBMIT 1/4 SCALE COORDINATED DRAWINGS FOR THE ENGINEER'S REVIEW AND APPROVAL.

20. AS-BUILT DRAWINGS: PROVIDE AS-BUILT RED-LINED DRAWINGS AT THE COMPLETION OF THE PROJECT FOR THE ENGINEER'S REVIEW AND FOR THE RECORD. INDICATE MAJOR CHANGES AND/OR ADJUSTMENTS TO THE EQUIPMENT AND/OR ANCILLARY DEVICE LOCATIONS.

21. HAZARDOUS MATERIALS: WHERE HAZARDOUS MATERIALS SUCH AS ACMs, PCBs, OR LEAD ARE ENCOUNTERED, THE CONTRACTOR SHALL CEASE DEMOLITION WORK AND NOTIFY THE OWNER, ARCHITECT AND ENGINEER AT ONCE.

22. PENETRATIONS : ALL CONDUITS PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH SLEEVES AT THE PENETRATION. ALL CONDUITS PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE PROVIDED WITH SLEEVES, INSULATION, CURBS AND REMOVABLE CAPS AND SHALL BE MADE WATER-TIGHT AS INDICATED ON THE INSTALLATION DETAILS. CONDUITS PENETRATING FIRE RATED PARTITIONS/ASSEMBLIES SHALL BE PROVIDED WITH SLEEVES, FIRE RATED SEALS, OR COMPOUNDS AT THE GAPS BETWEEN CONDUIT AND ASSEMBLY (RATED WALLS AND FLOORS), AS REQUIRED BY THE LOCAL CODE AUTHORITY. SLEEVES THROUGH SLABS SHALL EXTEND 1" ABOVE FINISHED SURFACE.

23. LIGHT FIXTURES : LIGHT FIXTURES AND EXIT LIGHTS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE INDEPENDENTLY FROM THE CEILING GRID.

24. LIGHT SWITCHES : VERIFY THE DIRECTION OF ALL DOOR SWINGS BEFORE INSTALLING THE LIGHT SWITCHES. INSTALL LIGHT SWITCHES AT THE LATCH SIDE OF DOORS.

25. TESTING : ALL ELECTRICAL WORK SHALL BE TESTED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, USING NETA STANDARD METHODS AND EQUIPMENT.

26. WHERE EQUIPMENT, LIGHTING FIXTURES AND WIRING DEVICES ARE SHOWN WITH CIRCUIT NUMBERS ONLY, THE MINIMUM BRANCH CIRCUITING REQUIREMENTS SHALL BE AS FOLLOWS:

   A. LIGHTING FIXTURES - 2#12, 1#12 GND IN 1/2" C.
   B. RECEPTACLES - 2#12, 1#12 GND IN 1/2 C"

29. BRANCH CIRCUIT WIRE SIZE : THE MINIMUM WIRE SIZE FOR BRANCH CIRCUIT SHALL BE #12 AWG EXCEPT 120 VOLT CIRCUITS OVER 80 FEET IN LENGTH AND 277 VOLT CIRCUITS OVER 150 FEET SHALL BE 10# AWG. REFER TO DRAWINGS FOR FURTHER WIRE SIZING INFORMATION.

30. ANY DISCREPANCY FOUND ON THE DRAWINGS OR SPECIFICATIONS, THE WORSE CASE SHALL PREVAIL.

31. CONTROLS: THE CONTRACTOR SHALL ENGAGE THE BUILDING CONTROLS EQUIPMENT PROVIDER AND COORDINATE ANY CONTROLS DEVICES AND PROGRAMMING WITH THE CONTROLS PROVIDER.

32. CONTRACTOR MUST CONTACT THE COUNTY'S CONTROL EQUIPMENT PROVIDER FOR ALL NEW OR ADDITIONAL DEVICES:
   SIEMENS INDUSTRY - BRIAN NOLEN, ACCOUNT EXECUTIVE
   SMART INFRASTRUCTURE
   6435 VIRGINIA MANOR ROAD
   BELTSVILLE, MD 20705
   CELL: 240-522-1538
   MAIN: 301-837-2600

POWER SYMBOLS

SYMBOL	DESCRIPTION
	SINGLE RECEPTACLE NEMA 5-20R MOUNTED 18" AFF, UON. DOT DENOTES NON-STANDARD HEIGHT, REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. MOUNTED HEIGHT DENOTED AS +XX".
WP	DUPLEX RECEPTACLE NEMA 5-20R MOUNTED 18" AFF, UON. DOT DENOTES NON-STANDARD HEIGHT, REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. MOUNTED HEIGHT DENOTED AS +XX". "WP" DENOTES WEATHER PROTECTION
WP WP	GFI RECEPTACLE, NEMA 5-20R, MOUNTED HEIGHT DENOTED AS +XX". "WP" DENOTES WEATHER PROTECTION
S	SYSTEM FURNITURE POWER OUTLET. WALL MOUNTED 18" AFF, UON.
	SPECIAL RECEPTACLE MOUNTED 18" AFF, UON. NUMBER DENOTES TYPE, REFER TO SPECIAL RECEPTACLE SCHEDULE ON SCHEDULE SHEETS FOR ADDITIONAL INFORMATION. MOUNTED HEIGHT DENOTED AS +XX".
J	JUNCTION BOX ABOVE CEILING/WALL MOUNTED 18" AFF, UON. MOUNTED HEIGHT DENOTED AS +XX". "GD" DENOTES GARBAGE DISPOSAL.
AS	NON-FUSIBLE DISCONNECT SWITCH, REFER TO MECHANICAL/PLUMBING OR PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION. 'AS' DENOTES AMPERE SWITCH SIZE
AS/AF	FUSIBLE DISCONNECT SWITCH, REFER TO MECHANICAL/PLUMBING OR PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION. 'AS' DENOTES AMPERE SWITCH SIZE 'AF' DENOTES AMPERE FUSE SIZE
AS VFD	COMBINATION VFD DISCONNECT SWITCH, REFER TO MECHANICAL/PLUMBING OR PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.
1	MOTOR STARTER DISCONNECT. NUMBER DENOTES NEMA SIZE.
1	MOTOR STARTER. NUMBER DENOTES NEMA SIZE.
	BRANCH CIRCUIT HOMERUN TO PANELBOARD CONCEALED IN CEILING OR WALLS.
	SURFACE AND RECESSED PANELBOARD 208/120V
	SURFACE AND RECESSED PANELBOARD 480/277V
T1	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE FOR ADDITIONAL INFORMATION 'T1' DENOTES 15kVA XFMR 'T5' DENOTES 112.5kVA XFMR 'T2' DENOTES 30kVA XFMR 'T6' DENOTES 150kVA XFMR 'T3' DENOTES 45kVA XFMR 'T7' DENOTES 225kVA XFMR 'T4' DENOTES 75kVA XFMR 'T8' DENOTES 300kVA XFMR
	GROUND BAR, 12" AFF UON
M	SWITCH 'M' DENOTES MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD. 'GD' DENOTES GARBAGE DISPOSAL SWITCH
1	KEYNOTE
	POKE THROUGH DEVICE FLUSHED MOUNTED. PROVIDE ONE DUPLEX RECEPTACLES AND 3/4" CONDUIT FOR POWER. FOR TELECOM 1" CONDUIT STUB UP 6" ABOVE THE HUNG CEILING WITH 90 DEGREE CONDUIT ELBOW & INSULATED BUSHING. PROVIDE LEGRAND 6AT WITH BRASS COVER PLATE FOR USE IN FLOOR 6CT2BKTR OR SIMILAR. 1
	POKE THROUGH DEVICE FLUSHED MOUNTED. PROVIDE TWO DUPLEX RECEPTACLES AND 3/4" CONDUIT FOR POWER. FOR TELECOM 1" CONDUIT STUB UP 6" ABOVE THE HUNG CEILING WITH 90 DEGREE CONDUIT ELBOW & INSULATED BUSHING. PROVIDE LEGRAND 6AT WITH BRASS COVER PLATE FOR USE IN FLOOR 6CT2BKTR OR SIMILAR. 1
XXX 1	MECHANICAL/PLUMBING EQUIPMENT. UPPER CASE LETTER DENOTES EQUIPMENT TAG. NUMBER DENOTE EQUIPMENT NUMBER, SEE MECHANICAL/PLUMBING SCHEDULE FOR WIRE, CIRCUIT INFORMATION, DISCONNECT SWITCHES AND CONTROLLER RATING. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF EQUIPMENT.

PANEL DESIGNATIONS:

LIGHTING SYMBOLS

	REFER TO LIGHT FIXTURE SCHEDULE AND ADDITIONAL LIGHT FIXTURE SYMBOLS ON DRAWING E-705
OS	CEILING MOUNTED DUAL TECHNOLOGY (ULTRASONIC AND PIR) OCCUPANCY SENSOR
DL	CEILING MOUNTED DAYLIGHT HARVESTING DEVICE
^{3}OS	SINGLE POLE SWITCH 20A, 277/120V, 2 POLE. MOUNTING HEIGHT 4'-0" AFF 3 - DENOTES THREE WAY SWITCH 4 - DENOTES FOUR WAY SWITCH D - DENOTES DIMMING SWITCH K - DENOTES KEY-TYPE P - DENOTES PILOT LIGHT T - DENOTES TIMER WITH PILOT OUT LIGHT OS - DENOTES OCCUPANCY SENSOR (ULTRASONIC AND PIR) VS - DENOTES VACANCY SENSOR (ULTRASONIC AND PIR) LV - DENOTES LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH a - LOWER CASE LETTER DENOTES SWITCH LEG
$^{}$OS	DT WLS 1-W: WALL SWITCH OCCUPANCY SENSOR
^{D}OS	DT WLS DIM: WALL SWITCH OCCUPANCY SENSOR, 0-10VOLTS DIMMING
1 L a	2' X 2' LIGHTING FIXTURE TYPICAL FOR ALL LIGHTING FIXTURES: • UPPERCASE LETTER DENOTES FIXTURE TYPE • LOWERCASE LETTER DENOTES SWITCH CONTROL • " ● " SHADED CENTER INDICATES EMERGENCY FIXTURE WITH MANUAL PUSH TO TEST SWITCH AND LED INDICATOR LIGHT • "NL" INDICATES 24 HOURS NIGHT LIGHT, UN-SWITCHED
	FLUORESCENT 2' X 2' LIGHTING FIXTURE
	FLUORESCENT 2' X 2' LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER
	FLUORESCENT 2' X 4' LIGHTING FIXTURE
	FLUORESCENT 2' X 4' LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER
	FLUORESCENT 1' X 4' LIGHTING FIXTURE
	FLUORESCENT 1' X 4' LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER
	INCANDESCENT, ADJUSTABLE ACCENT OR H.I.D. CEILING FIXTURE
	INCANDESCENT, ADJUSTABLE ACCENT OR H.I.D. CEILING FIXTURE CONNECTED TO EMERGENCY POWER
	INCANDESCENT OR H.I.D. WALL MOUNTED FIXTURE
	INCANDESCENT OR H.I.D. WALL MOUNTED FIXTURE CONNECTED TO EMERGENCY POWER
	STRIP LIGHT FIXTURE
	STRIP LIGHT FIXTURE CONNECTED TO EMERGENCY POWER
	LED 2' X 2' LIGHTING FIXTURE
	LED 2' X 2' LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER
	LED 2' X 4' LIGHTING FIXTURE
	LED 2' X 4' LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER
	LED 1' X 4' LIGHTING FIXTURE
	LED 1' X 4' LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER
	WALL MOUNTED LED 1' X 4' LIGHTING FIXTURE
	LED DOWNLIGHT
	LED DOWNLIGHT CONNECTED TO EMERGENCY POWER
	WALL MOUNTED LED LIGHTING FIXTURE
	WALL MOUNTED LED LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER
	EXIT LIGHT CONNECTED TO EMERGENCY POWER. SHADING DENOTES SIDE OF ILLUMINATION. ARROW DENOTES DIRECTION.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066794
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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SHEET TITLE:
GENERAL NOTES, SYMBOLS & ABBREVIATIONS

SHEET #
E001

ABBREVIATIONS

A	AMPERE
ACMs	ASBESTOS CONTAINING MATERIALS
ACT	ABOVE COUNTERTOP
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMP FUSE SIZE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATELY
AS	AMP SWITCH SIZE
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BLDG	BUILDING BMS BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CCT	CORRELATED COLOR TEMPERATURE
CO	CARBON MONOXIDE
COMM	COMMUNICATION
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
CP	CONTROL PANEL
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER CABINET
DEMO	DEMOLITION, DEMOLISH
DIM	DIMMABLE DISC DISCONNECT
DL	DAYLIGHT
DN	DOWN DWG DRAWING
E, EX	EXISTING
EA	EACH
EF	EXHAUST FAN
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENT	ELECTRICAL NONMETALLIC TUBING
ER	EXISTING TO RELOCATED
ETR	EXISTING TO REMAIN
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
FACP	FIRE ALARM CONTROL PANEL
FL	FLOOR
FLA	FULL LOAD AMPERES
FLUOR	FLUORESCENT
FMC	FLEXIBLE METALLIC CONDUIT
FNC	FLEXIBLE NON-METALLIC CONDUIT
FSS	FUSED SAFETY SWITCH
FT	FEET
G, (G)	GROUND
GFI	GROUND FAULT INTERRUPT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER Hz HERTZ (CYCLES PER SECOND)
IG	ISOLATED GROUND
in	INCHES
J, JB	JUNCTION BOX
K	KELVIN (DEGREES)
kW	KILOWATT
kWh	KILOWATT-HOUR
kVA	KILO VOLT-AMPERE
LFMC	LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT
Lm	LUMENS
LPS	LIGHTNING PROTECTION SYSTEM
LRA	LOCKED ROTOR AMPERES
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE/MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NEMA ASSOCIATION	NATIONAL ELECTRICAL MANUFACTURERS
NETA	NATIONAL ELECTRICAL TESTING ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFSS	NON-FUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
No.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OCPD	OVERCURRENT PROTECTION DEVICE
OS	OCCUPANCY SENSOR
P	POLE, PUMP
PCB	POLYCHLORINATED BIPHENYL
PH	PHASE
PIR	PASSIVE INFRARED PLUM PLUMBING
PNL	PANEL
POS	POINT OF SALE
PV	PHOTOVOLTAIC (SOLAR PANEL)

ABBREVIATIONS

R	RELOCATED FIXTURE/DEVICE
RCP	REFLECTED CEILING PLAN
REC, RECEPT	RECEPTACLE
RM	ROOM
SD	SMOKE DETECTOR
SF	SQUARE FEET
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SW	SWITCH
TP	TAMPER PROOF RECEPTACLE
TEL/DATA	TELEPHONE/DATA COMMUNICATION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
VS	VACANCY SENSOR
W	WATT, WIRE
W/	WITH
WP	WEATHER PROOF
XFMR	TRANSFORMER

ONE LINE DIAGRAM SYMBOLS

	CIRCUIT BREAKER
	DRAW OUT CIRCUIT BREAKER
	COMBINATION MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER
	GROUND
	GROUND BAR
T1	TRANSFORMER
M	METER
#	MOTOR, NUMBER DENOTES HORSEPOWER
PANEL	PANELBOARD

FIRE ALARM SYMBOLS

FACP	FIRE ALARM CONTROL PANEL.
ANN	FIRE ALARM REMOTE ANNUNCIATION PANEL.
F	MANUAL PULL STATION, FIRE ALARM SYSTEM
F	STROBE/HORN
F	STROBE/SPEAKER
V	STROBE
S F	SMOKE DETECTOR. "F" DENOTES UNDER RAISED FLOOR.
F	FLOW SWITCH.
H	HEAT DETECTOR.
1 XX	CEILING MOUNTED STROBE/HORN (NUMBER INDICATES MINIMUM CANDELA)

MTFA architecture

3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.872.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402006709
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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SHEET TITLE:
GENERAL NOTES, SYMBOLS & ABBREVIATIONS

SHEET #
E002

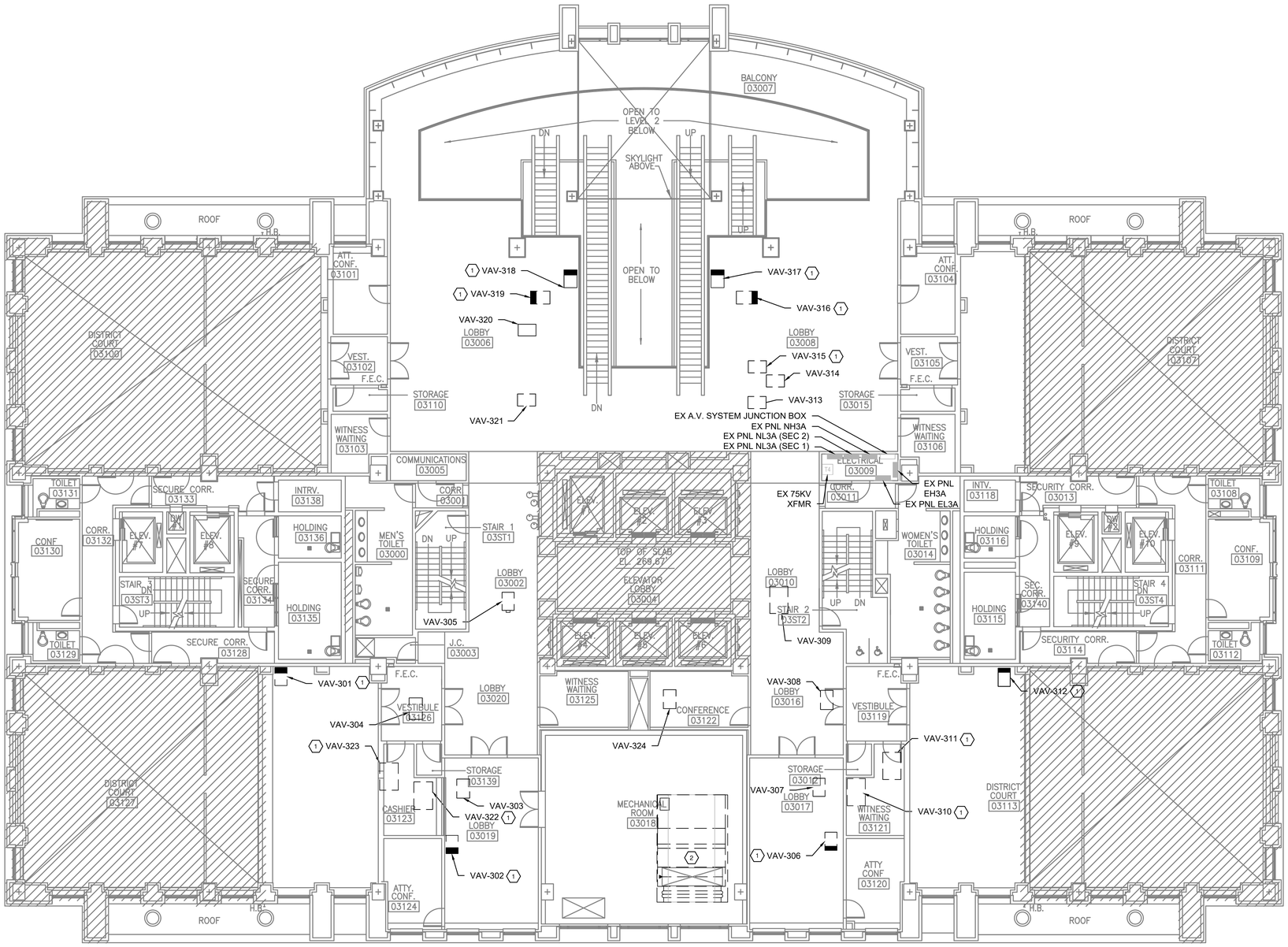
GENERAL NOTES

1. FURNISH, INSTALL, AND MAINTAIN IN SAFE CONDITIONS AT ALL TIMES TEMPORARY PROTECTION REQUIRED TO ENSURE SAFETY FOR PERSONS AND PROPERTY DURING DEMOLITION AND REMOVAL WORK.
2. OWNER HAS FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE MATERIALS. ALL OTHER MATERIAL AND DEBRIS ACCUMULATED AS A RESULT OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER.
3. ALL EQUIPMENT AND SYSTEMS SHOWN IN LIGHT LINES ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE. TRACE AND IDENTIFY PANELBOARD CIRCUIT NUMBER SERVING THE EXISTING RECEPTACLES. UPDATE THE CARD DIRECTORY ACCORDINGLY.
4. ALL EQUIPMENT IN DASHED LINES INDICATE EQUIPMENT TO BE DEMOLISHED BACK TO SOURCE (SOURCE IS DEFINED AS PULL/JUNCTION BOXES, OUTLETS OR PANELBOARDS) INCLUDING ASSOCIATED WIRING AND CONDUIT. CIRCUIT CONTINUITY SHALL BE MAINTAINED FOR EXISTING ELECTRICAL DEVICES, FIXTURES AND EQUIPMENT TO REMAIN.
5. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
6. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
7. ALL EQUIPMENT IN BOLD AND DARKER LINES INDICATE EQUIPMENT TO BE DEMOLISHED BACK TO SOURCE INCLUDING WIRING AND CONDUIT.
8. ALL EXISTING VARIABLE AIR VOLUME ON THIS FLOOR SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE AS MARKED, IF ELECTRICALLY POWERED. SEE DEMOLITION NOTES BELOW.

DEMOLITION NOTES:

(1) DISCONNECT AND REMOVE VARIABLE AIR VOLUME, INCLUDING ALL ASSOCIATED ELECTRICAL EQUIPMENT, CONDUIT, WIRING BACK TO EXISTING PANEL NH3A.

(2) DISCONNECT AND REMOVE EXISTING AHU, INCLUDING ALL ASSOCIATED ELECTRICAL EQUIPMENT, CONDUIT, WIRING BACK TO SOURCE.



1 3RD FLOOR PLAN - POWER - DEMOLITION
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

PLAN NORTH

TRUE NORTH

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066291
PROFESSIONAL ENGINEER
12-13-2023

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SHEET TITLE:
3RD FLOOR - POWER - DEMOLITION

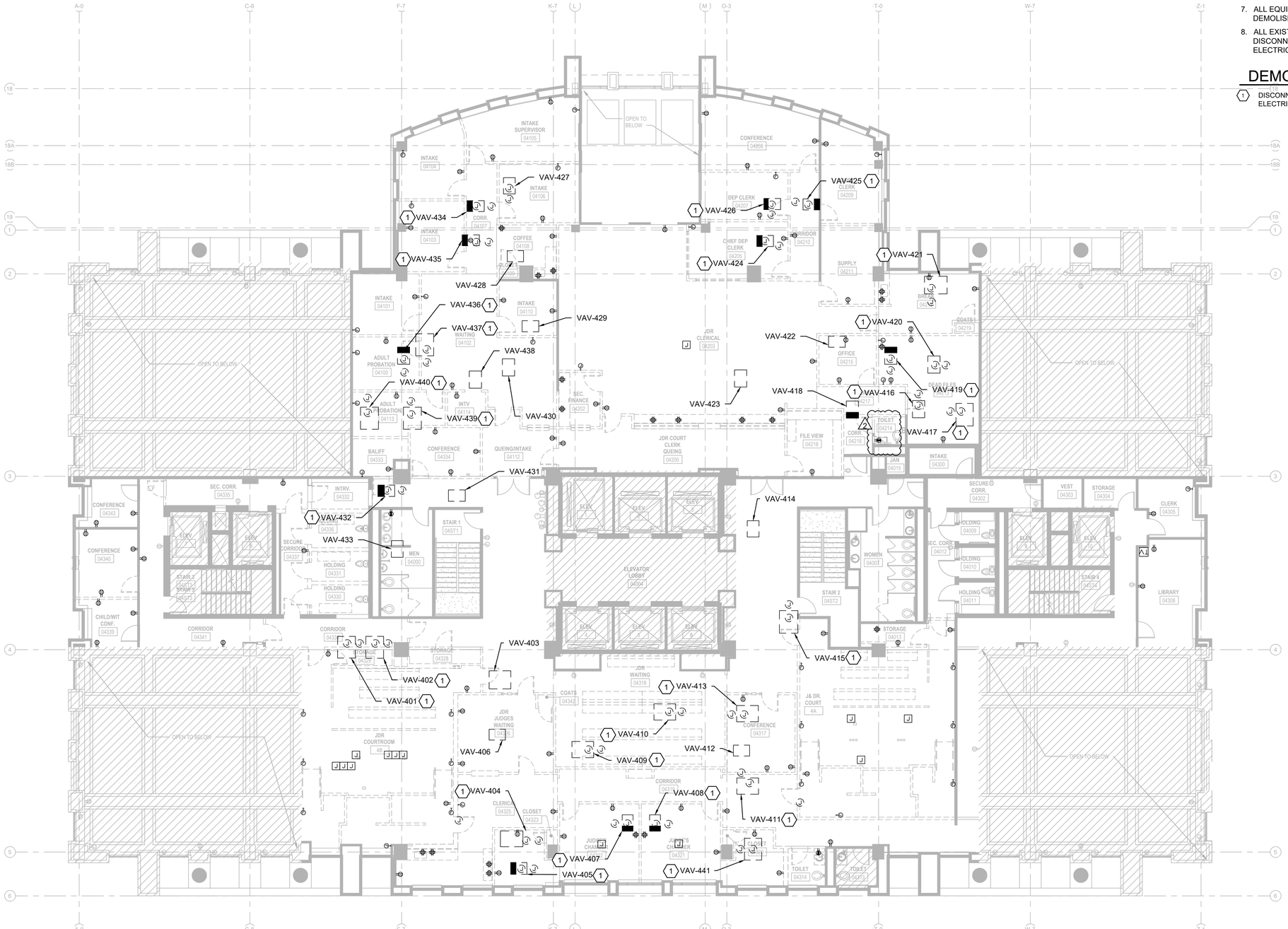
SHEET #
E101

GENERAL NOTES

1. FURNISH, INSTALL, AND MAINTAIN IN SAFE CONDITIONS AT ALL TIMES TEMPORARY PROTECTION REQUIRED TO ENSURE SAFETY FOR PERSONS AND PROPERTY DURING DEMOLITION AND REMOVAL WORK.
2. OWNER HAS FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE MATERIALS. ALL OTHER MATERIAL AND DEBRIS ACCUMULATED AS A RESULT OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER.
3. ALL EQUIPMENT AND SYSTEMS SHOWN IN LIGHT LINES ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE. TRACE AND IDENTIFY PANELBOARD CIRCUIT NUMBER SERVING THE EXISTING RECEPTACLES. UPDATE THE CARD DIRECTORY ACCORDINGLY.
4. ALL EQUIPMENT IN BOLD AND DARKER LINES INDICATE EQUIPMENT TO BE DEMOLISHED BACK TO SOURCE (SOURCE IS DEFINED AS PULL/JUNCTION BOXES, OUTLETS OR PANELBOARDS) INCLUDING ASSOCIATED WIRING AND CONDUIT. CIRCUIT CONTINUITY SHALL BE MAINTAINED FOR EXISTING ELECTRICAL DEVICES, FIXTURES AND EQUIPMENT TO REMAIN.
5. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
6. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
7. ALL EQUIPMENT IN BOLD AND DARKER LINES INDICATE EQUIPMENT TO BE DEMOLISHED BACK TO SOURCE INCLUDING WIRING AND CONDUIT.
8. ALL EXISTING VARIABLE AIR VOLUME ON THIS FLOOR SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE AS MARKED, IF ELECTRICALLY POWERED. SEE DEMOLITION NOTES BELOW.

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE VARIABLE AIR VOLUME, INCLUDING ALL ASSOCIATED ELECTRICAL EQUIPMENT, CONDUIT, WIRING BACK TO EXISTING PANEL NH5A.



1 4TH FLOOR PLAN - POWER - DEMOLITION
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

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3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066291
12-13-2023
PROFESSIONAL ENGINEER

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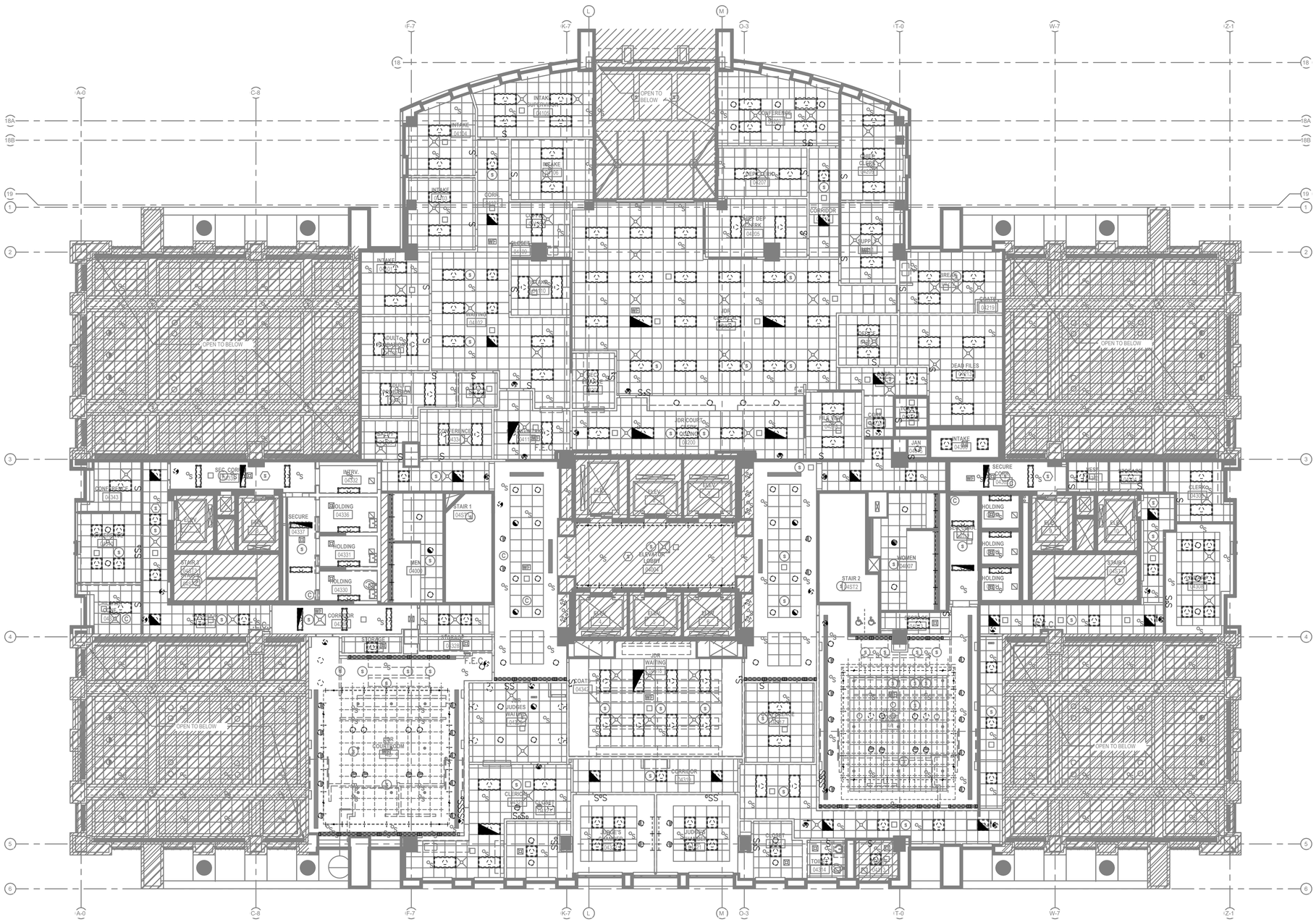
4TH FLOOR - POWER - DEMOLITION

SHEET #
E102

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN IN LIGHT LIGHTS ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE. TRACE AND IDENTIFY PANELBOARD CIRCUIT NUMBER SERVING THE LIGHTING FIXTURES. UPDATE THE CARD DIRECTORY ACCORDINGLY.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
4. ALL LIGHTING FIXTURES, SWITCHES, EXIT SIGNS AND LIGHTING CONTROLS IN BOLD SHALL BE REMOVED. REMOVE ASSOCIATED BRANCH CIRCUITS AND FEEDERS BACK TO THE SOURCE (SOURCE IS DEFINED AS PULL/JUNCTION BOXES OR PANELBOARDS). CIRCUIT CONTINUITY SHALL BE MAINTAINED FOR EXISTING ELECTRICAL DEVICES, FIXTURES AND EQUIPMENT TO REMAIN.



1 4TH FLOOR PLAN - LIGHTING - DEMOLITION
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

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TRUE NORTH

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Amerescso
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 040206629
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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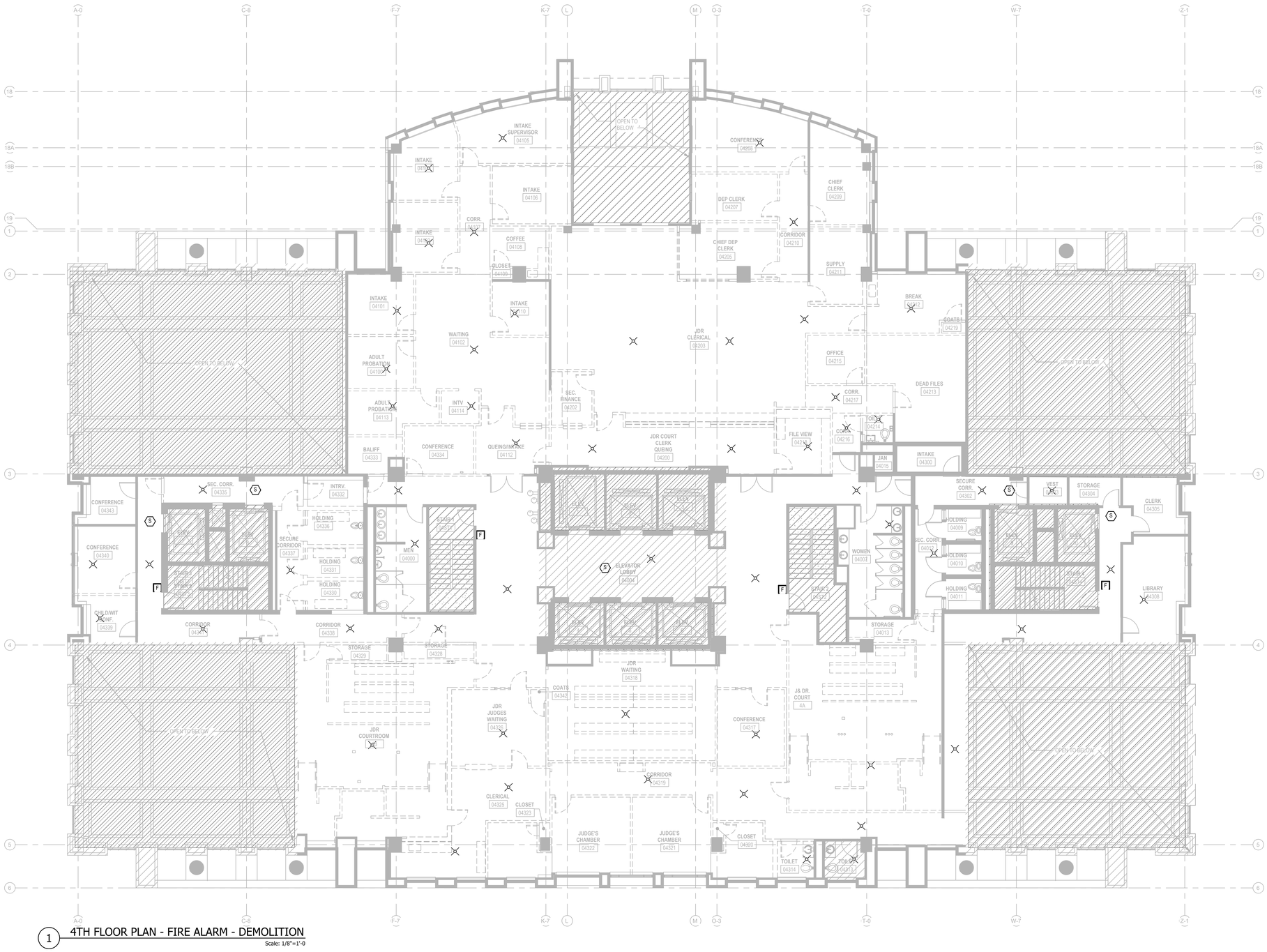
SHEET TITLE:
4TH FLOOR - LIGHTING - DEMOLITION

SHEET #
E103

GENERAL NOTES

1. ALL FIRE ALARM SYSTEMS SHOWN IN LIGHT LINES ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.



1 4TH FLOOR PLAN - FIRE ALARM - DEMOLITION
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

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MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8625 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.872.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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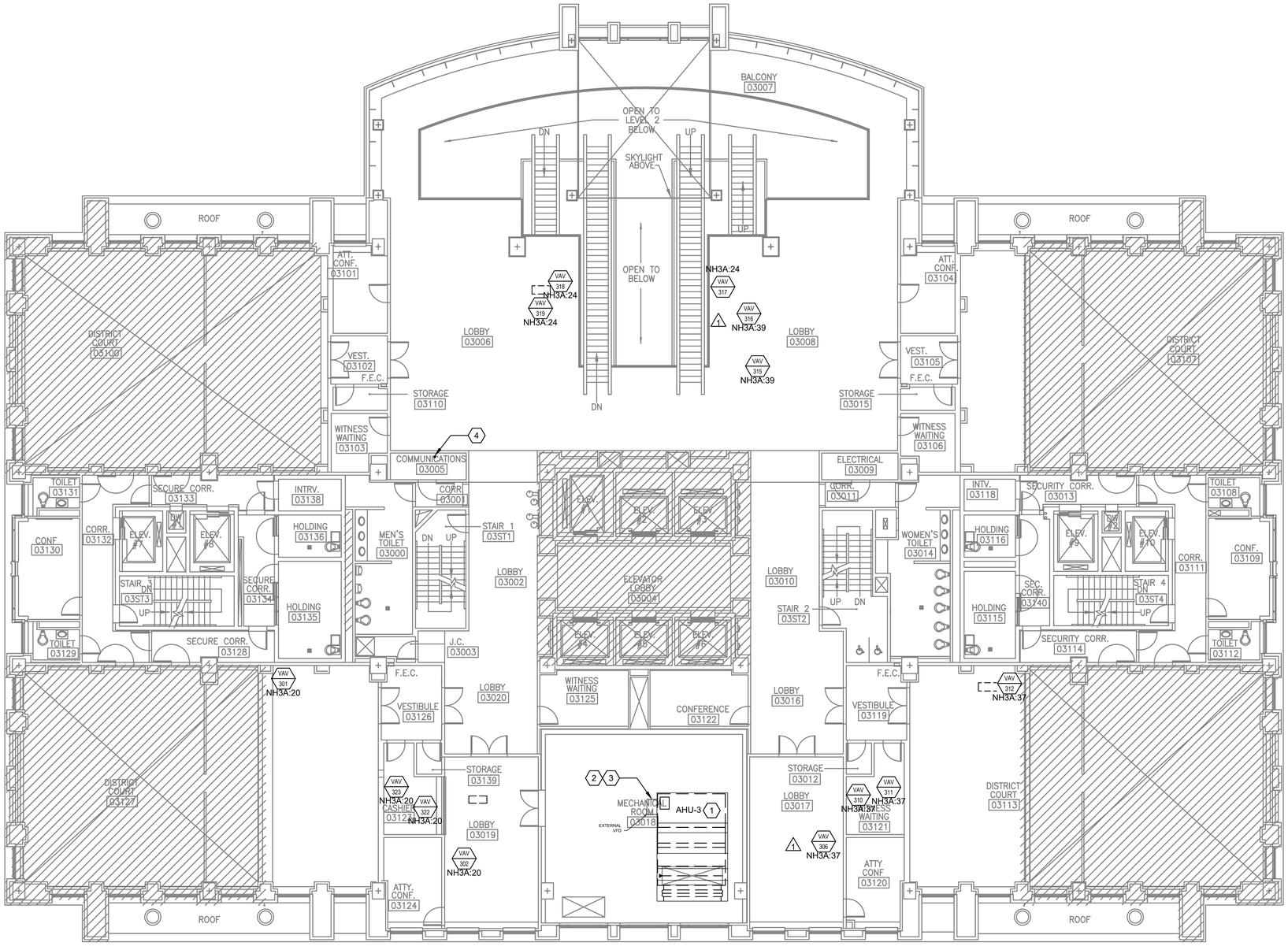
SHEET TITLE:
4TH FLOOR - FIRE ALARM - DEMOLITION

SHEET #
E104



1 3RD FLOOR PLAN - POWER - NEW WORK
Scale: 1/8"=1'-0

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN IN LIGHT LINES ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REQUIREMENTS.
3. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. ALL EQUIPMENT IN BOLD AND DARKER LINES INDICATE NEW WORK EQUIPMENT.
5. REFER TO DRAWING E-601 FOR PARTIAL RISER DIAGRAM. ALL PANELS AND TRANSFORMERS ARE EXISTING TO REMAIN.
6. REFER TO DRAWING E701, E702 AND E703 FOR ELECTRICAL PANEL SCHEDULE.
7. REFER TO DRAWING E704 FOR MECHANICAL SCHEDULE.
8. TELECOMMUNICATION AND DATA IS PROVIDED BY OTHERS.

NEW WORK NOTES:

1. AHU-3: 480V,3P, MCA=89.25A,FLA=57A.
2. UTILIZE EXISTING GROUND, PREVIOUSLY SERVING THE REMOVED AHU, FOR RECONNECTION TO NEW AHU-3.
3. PROVIDE 3#2AWG, 1#6 AWG GND, IN 1-1/2" RMC CONDUIT FROM AHU-3 PACKAGED CONTROL PANEL TO NEW 110A, 3P, 65KAIC CIRCUIT BREAKER NH3A:26,28,30. PROVIDE FINAL POWER CONNECTION TO CONTROL PANEL WITH A MINIMUM OF 3 FEET OF LFMC CONDUIT.
4. PROVIDE 4" RMC CONDUIT WITH PULLSTRING FROM NEW NETWORK CLOSET (TELECOM 4103A) TO THE EXISTING 3RD FLOOR NETWORK CLOSET (COMMUNICATIONS 03005). CONDUIT IS ASSUMED TO BE SUITABLE AS SHOWN GIVEN THE DUCT PATH SHOWN ON M-106. CONTRACTOR TO CONTACT ELECTRICAL ENGINEER FOR DISPOSITION IF ANY OBSTRUCTION IS ENCOUNTERED OR DISCOVERED.

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

PLAN NORTH
TRUE NORTH

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066291
PROFESSIONAL ENGINEER
12-13-2023

PROJECT # 21085

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DRAWN: JSR
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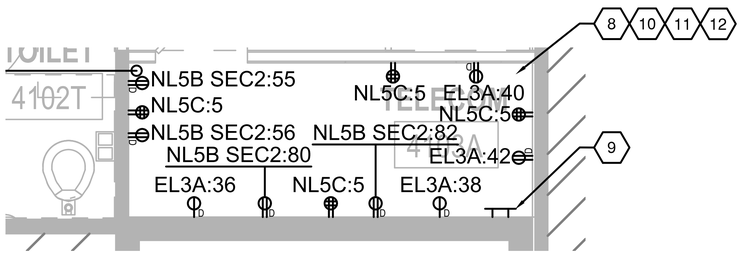
SCALE: AS INDICATED

SHEET TITLE:
3RD FLOOR - POWER - NEW WORK

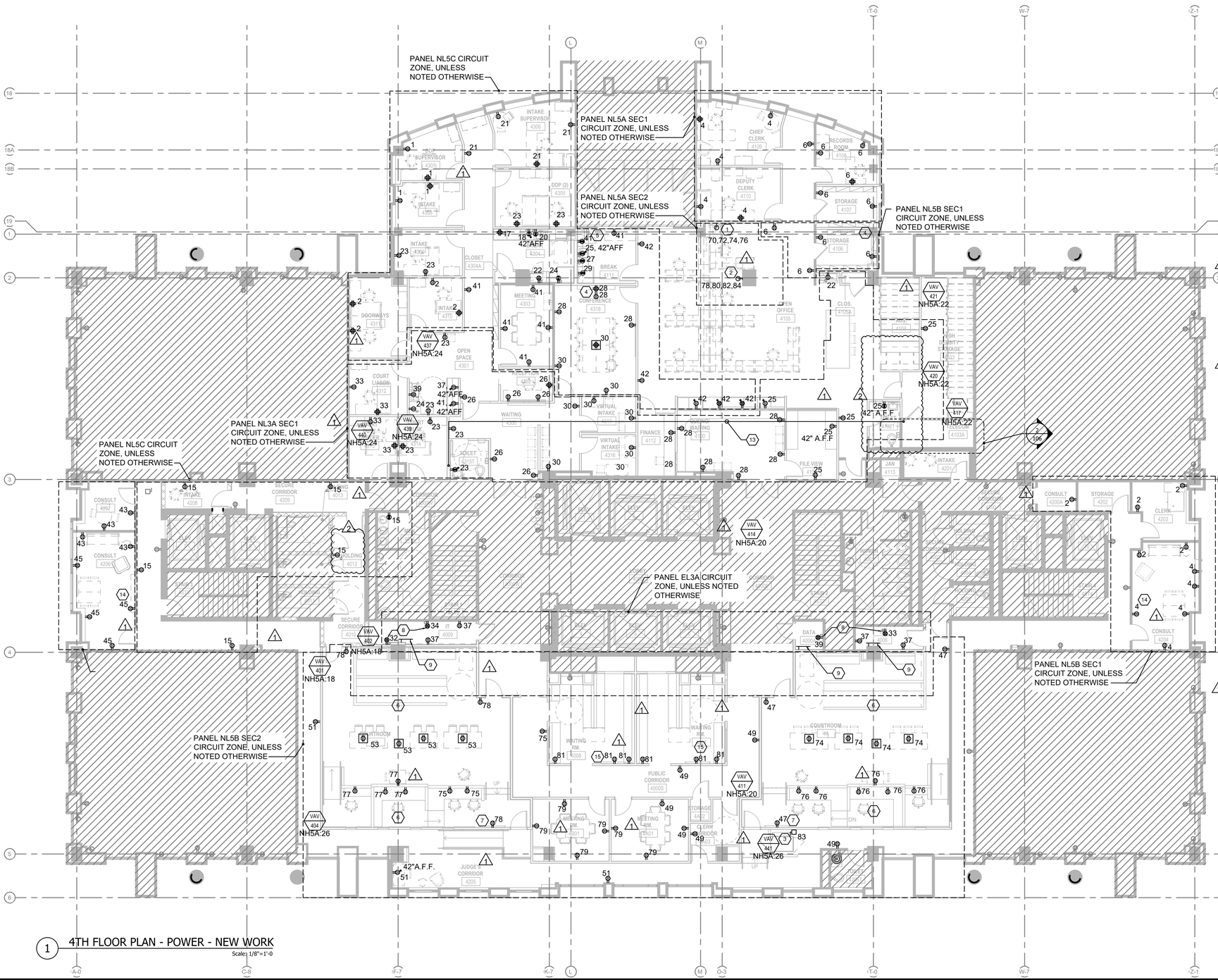
SHEET #
E105



2
106

4TH FLOOR PLAN - POWER - TELECOM 4103A - NEW WORK

Scale: 1/2"=1'-0"



1 4TH FLOOR PLAN - POWER - NEW WORK

Scale: 1/8"=1'-0

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN IN LIGHT LINES ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS AND EXACT LOCATION OF NEW EQUIPMENT.
3. ALL HATCHED AREA INDICATE THE AREA IS NOT PART OP THE SCOPE.
4. ALL EXISTING EQUIPMENT SHOWN LIGHT LINES ARE EXISTING TO REMAIN EQUIPMENT, UNLESS NOTED OTHERWISE.
5. REFER TO DRAWING E601 FOR PARTIAL RISER DIAGRAM. ALL PANELS AND TRANSFORMERS ARE EXISTING TO REMAIN.
6. REFER TO DRAWING E701, E702 AND E703 FOR ELECTRICAL PANEL SCHEDULE.
7. REFER TO DRAWING E704 FOR MECHANICAL SCHEDULE.
8. TELECOMMUNICATION, SECURITY AND DATA IS PROVIDED BY OTHERS. REFER TO THE TELECOMMUNICATIONS DRAWINGS FOR ADDITIONAL INFORMATION.
9. COORDINATE MOUNTING HEIGHTS AND FINAL LOCATION OF ALL DISPLAYS AND MONITORS IN FIELD WITH ARCHITECT AND ELECTRICAL CONTRACTOR.
10. CONTRACTOR SHALL CONFIRM AVAILABILITY OF CIRCUITS TO BE USED IN THE SPACE. REUSE CIRCUITS AS THEY BECOME AVAILABLE DURING THE DEMOLITION PHASE. UPDATE THE PANEL SCHEDULE PER ACTUAL CONDITIONS.

NEW WORK NOTES:

1. PROVIDE 4#12, 1#12 GND IN 1/2" EMT CONDUIT TO NEW 20A, 3P, 10KAIC CIRCUIT BREAKER NL5A SEC2: 70,72,74 AS THE THREE (3) CONVENIENCE POWER TO SHARE A COMMON NEUTRAL AND GROUND. PROVIDE 2#12, 1#12 GND IN 1/2" EMT CONDUIT TO NEW 20A, 1P CIRCUIT NL5A SEC2: 76 AS THE ISOLATED CIRCUIT WITH ITS OWN NEUTRAL AND GROUND. WIRING TO TERMINATE ON FURNITURE PROVIDED POWER INFEED MODULE.
2. PROVIDE 4#12, 1#12 GND IN 1/2" EMT CONDUIT TO NEW 20A, 3P, 10KAIC CIRCUIT BREAKER NL5A SEC2: 78,80,82 AS THE THREE (3) CONVENIENCE POWER TO SHARE A COMMON NEUTRAL AND GROUND. PROVIDE 2#12, 1#12 GND IN 1/2" EMT CONDUIT TO NEW 20A, 1P CIRCUIT NL5A SEC2: 84 AS THE ISOLATED CIRCUIT WITH ITS OWN NEUTRAL AND GROUND. WIRING TO TERMINATE ON FURNITURE PROVIDED POWER INFEED MODULE.
3. PROVIDE 120V, 1PH, 15A FUSED DISCONNECT FOR THE COMMERCIAL WHEELCHAIR LIFT.
1 4. POWER FOR MONITORS. REFER TO DRAWING 1/E706 FOR ADDITIONAL INFORMATION. COORDINATE WITH A/V 4/AV301.
5. SP-1 RECEPTACLE SHALL BE MOUNTED UNDER THE SINK. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
6. UTILIZE THE EXISTING CIRCUIT, PREVIOUSLY SERVING THE DEMOLISHED SECURITY CAMERA(S), IN THIS ROOM/AREA FOR RECONNECTION TO NEW SECURITY CAMERA(S). REFER TO AUDIO VISUAL DRAWINGS FOR EXACT LOCATION.
1 7. DUPLEX RECEPTACLE FOR MONITOR. COORDINATE FINAL WITH ARCHITECT. REFER TO DRAWING 2/E706 AND AUDIO VISUAL DRAWING 2/AV301 FOR ADDITIONAL INFORMATION.
8. PROVIDE 120V, 20A ORANGE NEMA 5-20R DEDICATED QUAD RECEPTACLE IN THIS ROOM. RECEPTACLE SHALL BE LOCATED 7'-0" A.F.F. COORDINATE WITH ARLINGTON DEPARTMENT OF TECHNOLOGY SERVICES FOR FINAL LOCATION.
9. PROVIDE A GROUNDING BAR MEASURING 12" LONG BY 2" WIDE BY 1/4" THICK WITH PRE-DRILLED 1/4" HOLES SHALL BE INSTALLED IN THIS ROOM. THE GROUND BAR SHALL BE CONNECT TO THE NEAREST BUILDING STEEL USING #2 OR GREATER AWG COPPER WIRE.
10. PROVIDE TWO (2) 120V, 30A ORANGE NEMA L5-30R DEDICATED SIMPLEX RECEPTACLE IN THIS ROOM, AS SHOWN. COORDINATE WITH ARLINGTON DEPARTMENT OF TECHNOLOGY SERVICES FOR FINAL LOCATION.
11. PROVIDE FOUR (4) STREET POWER 120V, 20A ORANGE NEMA 5-20R DEDICATED RECEPTACLE, AS SHOWN IN THIS ROOM. COORDINATE WITH ARLINGTON DEPARTMENT OF TECHNOLOGY SERVICES FOR FINAL LOCATION.
12. PROVIDE TWO (2) EMERGENCY POWER 120V, 20A ORANGE NEMA 5-20R DEDICATED RECEPTACLE, AS SHOWN IN THIS ROOM. COORDINATE WITH ARLINGTON DEPARTMENT OF TECHNOLOGY SERVICES FOR FINAL LOCATION.
13. PROVIDE 4" RMC CONDUIT WITH PULLSTRING FROM NEW NETWORK CLOSET (TELECOM 4103A) TO THE EXISTING 3RD FLOOR NETWORK CLOSET (COMMUNICATIONS 03005). CONDUIT IS ASSUMED TO BE SUITABLE AS SHOWN GIVEN THE DUCT PATH SHOWN ON M-106. CONTRACTOR TO CONTACT ELECTRICAL ENGINEER FOR DISPOSITION IF ANY OBSTRUCTION IS ENCOUNTERED OR DISCOVERED.
1 14. POWER FOR MONITORS. REFER TO DRAWING 2/E706 FOR ADDITIONAL INFORMATION. COORDINATE WITH A/V 1/AV301.
15. POWER FOR MONITORS. REFER TO DRAWING 3/E706 FOR ADDITIONAL INFORMATION. COORDINATE WITH A/V 3/AV301.

GRAPHIC SCALE

0 2' 4' 8'
SCALE:1/4"=1'

0 4' 8' 16'
SCALE:1/8"=1'

SCALE OF FEET

PLAN NORTH

TRUE NORTH

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066291
12-13-2023
PROFESSIONAL ENGINEER

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DRAWN: JSR
CHECKED: WJG
SCALE: AS INDICATED

SHEET TITLE:
4TH FLOOR - POWER - NEW WORK

SHEET #

E106

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. ALL LIGHTING FIXTURE, SWITCHES, AND LIGHTING CONTROL IN BOLD SHALL BE NEW, UNLESS SPECIFICALLY INDICATED OTHERWISE.
5. REFER TO DRAWING E701, E702 AND E703 FOR ELECTRICAL PANEL SCHEDULE.
6. REFER TO DRAWING E705 FOR LIGHTING FIXTURE SCHEDULE.
7. CONTRACTOR SHALL CONFIRM AVAILABILITY OF CIRCUITS TO BE USED IN THE SPACE. REUSE CIRCUITS AS THEY BECOME AVAILABLE DURING THE DEMOLITION PHASE. UPDATE THE PANEL SCHEDULE PER ACTUAL CONDITIONS.
8. REFER TO DRAWING E705 FOR SWITCHING AND CONTROLS INFORMATION. CONTACT LIGHTING ENVIRONMENTS (LE) CONTROLS REPRESENTATIVE FOR ADDITIONAL INFORMATION AND TO DISCUSS PROPOSED STRATEGY TO INSURE DESIGN INTENT AND PROJECT REQUIREMENT.
9. REFER TO DRAWING E707 FOR INTERIOR LIGHTING ANALYSIS.

NEW WORK NOTES:

1. EXTEND AND RECONNECT EMERGENCY CIRCUIT BACK TO BRANCH CIRCUIT EH3A:1.

PANEL NH5A SEC 1 CIRCUIT ZONE, UNLESS NOTED OTHERWISE

PANEL NL5C CIRCUIT ZONE, UNLESS NOTED OTHERWISE

PANEL NL5B SEC1 CIRCUIT ZONE, UNLESS NOTED OTHERWISE

1 4TH FLOOR PLAN - LIGHTING - NEW WORK
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

PLAN NORTH

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3200 Langston Boulevard Arlington, VA 22207
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4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.872.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066291
12-13-2023
PROFESSIONAL ENGINEER

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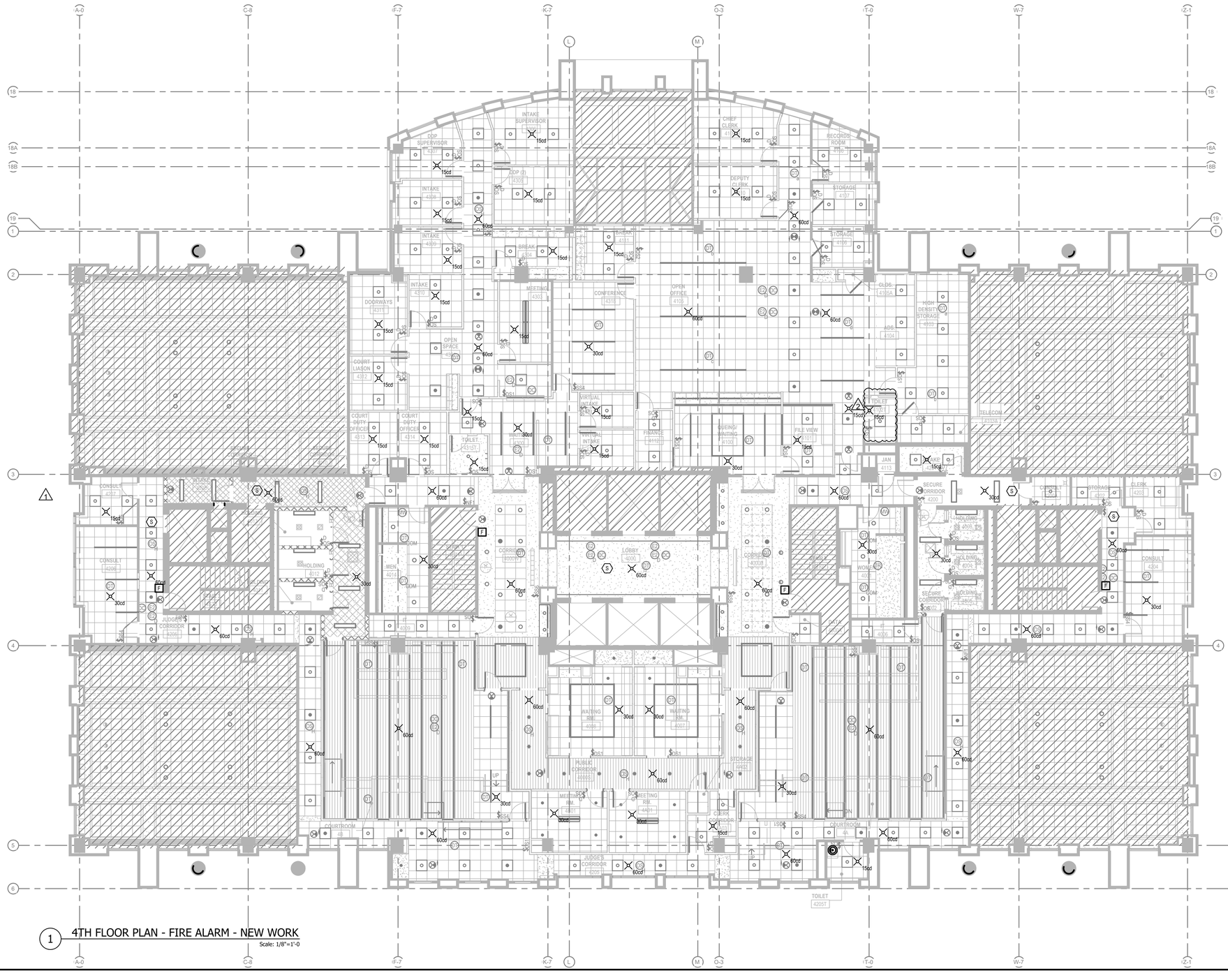
DRAWN: JSR
CHECKED: WJG
SCALE: AS INDICATED

SHEET TITLE:
4TH FLOOR - LIGHTING - NEW WORK

SHEET #
E107

GENERAL NOTES

1. ALL FIRE ALARM SYSTEMS SHOWN IN LIGHT LINES ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. FIRE ALARM SYSTEM SHOWN IS FOR REFERENCE AND BASIS OF DESIGN ONLY. CONTRACTOR TO PROVIDE FIRE ALARM SYSTEM AS SHOWN.
4. UTILIZE EXISTING FIRE ALARM SYSTEM, PREVIOUSLY SERVING THE DEMOLISHED FIRE ALARM DEVICES, FOR RECONNECTION TO NEW FIRE ALARM DEVICES.



1 4TH FLOOR PLAN - FIRE ALARM - NEW WORK
Scale: 1/8"=1'-0

GRAPHIC SCALE
0 4' 8' 16'
SCALE:1/8"=1'
SCALE OF FEET

PLAN NORTH

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4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.872.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
12-13.2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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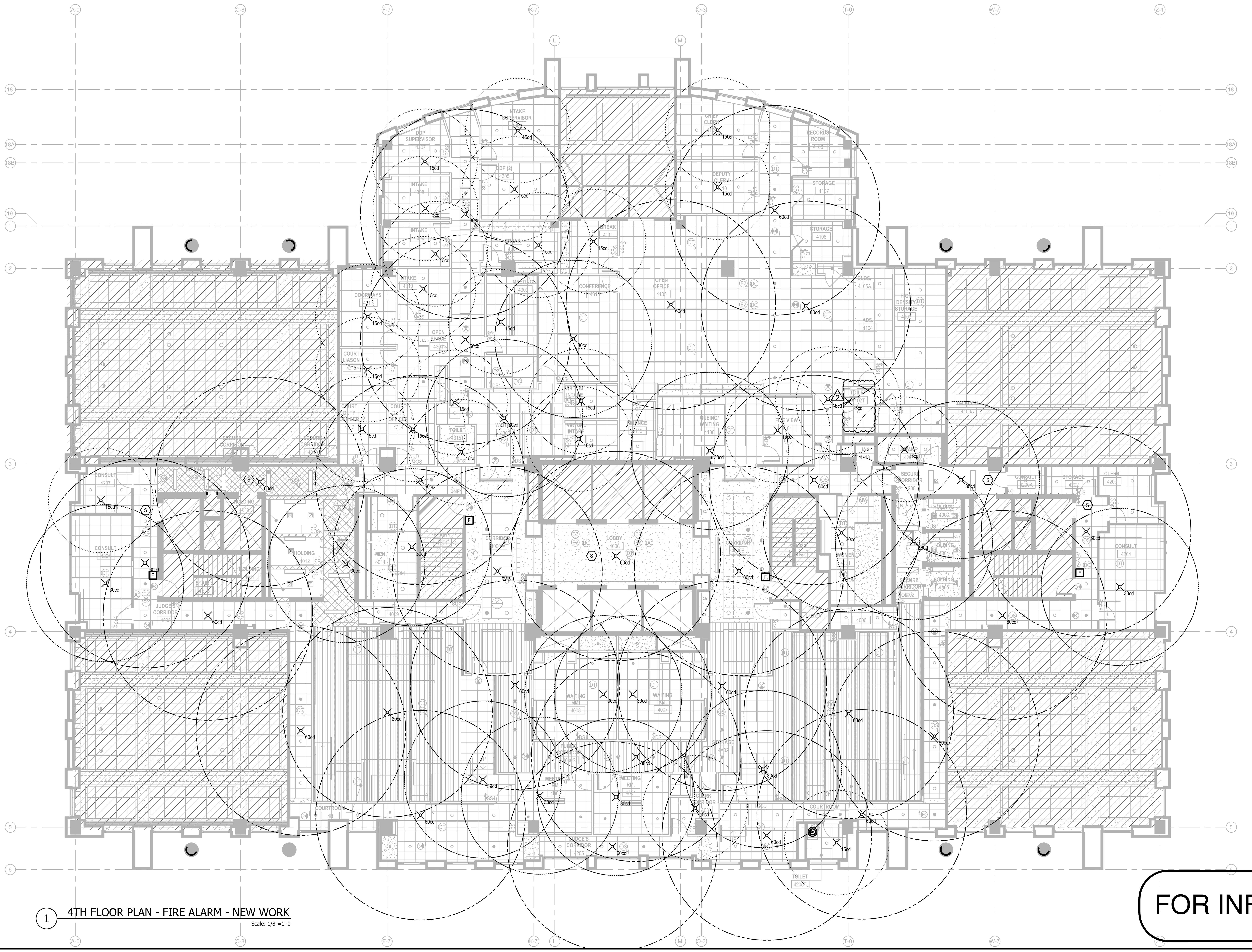
DRAWN: JSR
CHECKED: WJG
SCALE: AS INDICATED

SHEET TITLE:
4TH FLOOR - FIRE ALARM - NEW WORK

SHEET #
E108

GENERAL NOTES

1. ALL FIRE ALARM SYSTEMS SHOWN IN LIGHT LINES ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. FIRE ALARM SYSTEM SHOWN IS FOR REFERENCE AND BASIS OF DESIGN ONLY. CONTRACTOR TO PROVIDE FIRE ALARM SYSTEM AS SHOWN.
4. UTILIZE EXISTING FIRE ALARM SYSTEM, PREVIOUSLY SERVING THE DEMOLISHED FIRE ALARM DEVICES, FOR RECONNECTION TO NEW FIRE ALARM DEVICES.
5. CIRCLES AROUND THE DEVICES DISPLAYS MINIMUM COVERAGE PER FIRE ALARMS.



1 4TH FLOOR PLAN - FIRE ALARM - NEW WORK

Scale: 1/8"=1'-0

GRAPHIC SCALE

0 4' 8' 16'

SCALE:1/8"=1'

SCALE OF FEET

PLAN NORTH TRUE NORTH

FOR INFORMATION ONLY

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4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

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540.347.5001

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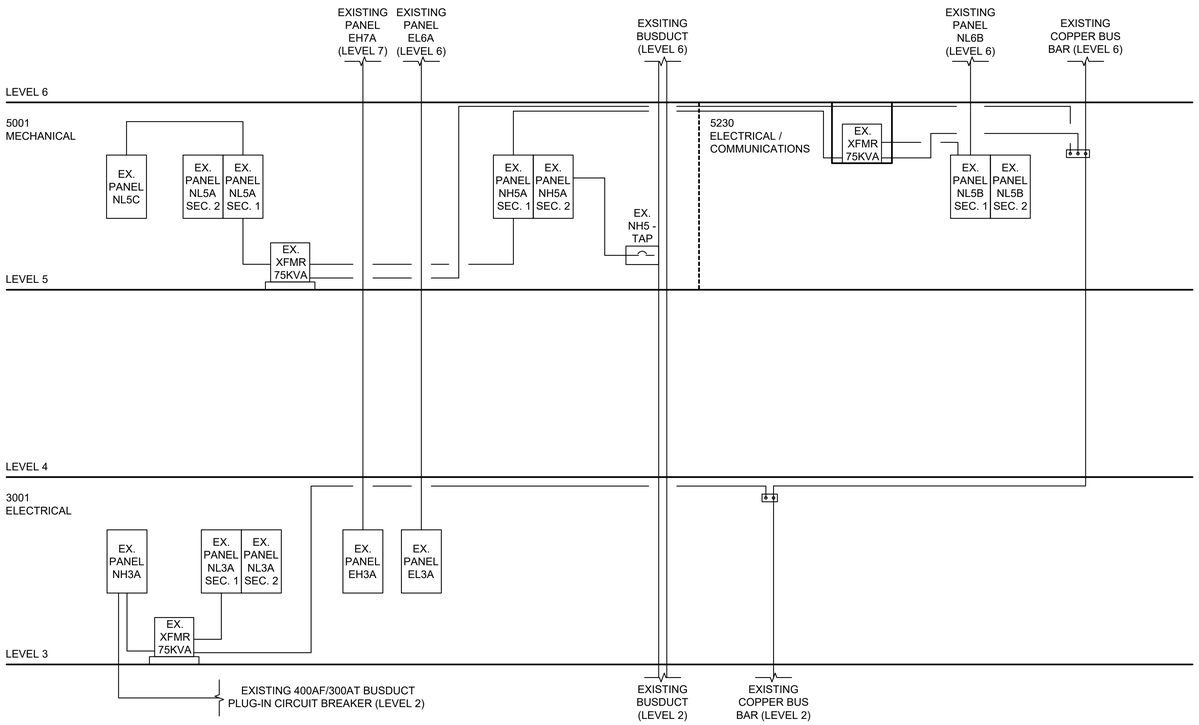
DRAWN: JSR CHECKED: WJG

SCALE: AS INDICATED

SHEET TITLE: **4TH FLOOR - FIRE ALARM COVERAGE- NEW WORK**

SHEET # 1 **E108.1**



1 PARTIAL RISER DIAGRAM - EXISTING

N.T.S.

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO GENERAL NOTES ON DRAWING E-002.

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3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

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443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.872.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 040206629
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

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CHECKED: WJG
SCALE: AS INDICATED

SHEET TITLE: **PARTIAL RISER DIAGRAM**

SHEET # **E601**

EXISTING: NL3A SECTION 1

LOCATION: ELECTRICAL ROOM (3001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 208/120V | **kAIC RATING:** EXISTING
SUPPLY FROM: EX 75KVA TRANSFORMER (3001) | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 300A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** 300A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EX.(03020,0C03,03125) RECEPT.	20A	1	1.1	1.1					1	20A	EX.(3B03,0319,3122,3125) RECEPT.	2
3	EX.(0C03,03123,0C04,03127) RECEPT.	20A	1			1.1	1.1			1	20A	EX.(3113,3017,3B04,3802) RECEPT.	4
5	EX.J BOX CCTV CAMERAS (03127)	20A	1					0.7	0.7	1	20A	EX.J BOX.CCTV CAMERAS (3113)	6
7	EX.J BOX CCTV CAMERAS (03127)	20A	1	0.7	0.7					1	20A	EX.J BOX CCTV CAMERAS (3113)	8
9	EX.J BOX CCTV CAMERAS (03100)	20A	1			0.7	0.7			1	20A	EX.J BOX.CCTV CAMERAS (3107)	10
11	EX.J BOX CCTV CAMERAS (03100)	20A	1					0.7	0.7	1	20A	EX.J BOX.CCTV CAMERAS (3107)	12
13	EX.(3000,3100,3005,3128,3133,3134M,3D02) RECEPT.	20A	1	1.1	1.1					1	20A	EX.(3013,014,106,107,114,140) RECEPT.	14
15	EX.(03129,131,132,3D02) RECEPT.	20A	1			1.1	1.1			1	20A	EX.(3108,3A02,3112) RECEPT.	16
17	EX.(3007,3006,3100,3102,3D04) RECEPT.	20A	1					1.1	1.1	1	20A	EX.(3008,3A04,105,107,115) RECEPT.	18
19	EX.(03123) COMP. SYS. FURN. (I)	20A	1	1.1	1.1					1	20A	EX.(3006,3008,4002) DOCKET RECEPT.	20
21	EX.(03123) COMP. SYS. FURN. (I)	20A	1			1.1	1.2			1	**20A**	**(4105) COPIER RECEPTACLE**	22
23	**(4315,4315T,4300,4301) RECEPTACLE**	**20A**	1					1.3	1.1	**1**	**20A**	**(4301) RECEPTACLE**	24
25	**(4101,4102T,4103,4105) RECEPTACLE**	**20A**	1	1.1	1.3					**1**	**20A**	**(4301,4302,4300) RECEPTACLE**	26
27	~~EX.TV MONITORS X&B~~	20A	1			1.1	1.1			**1**	**20A**	**(4100,4112) RECEPTACLE**	28
29	EX.TV MONITORS C&D	20A	1					1.1	1.1	**1**	**20A**	**(4316,4317,4318,4300) RECEPTACLE**	30
31	EX.(3C02,0C04) RECPT	20A	1	1.1	1.1					1	20A	EX.(4321,4201) RECEPT.	32
33	**(4312,4313) RECEPTACLE**	**20A**	**1**			0.8	1.1			1	20A	EX.(3002,3010) RECEPT COMP SCREENS	34
35	**(4301) COPIER**	**20A**	**1**					1.2	1.1	1	20A	EX.BOX 2-EWC (3002)	36
37	**(4301) FAX**	**20A**	**1**	1.2	1.1					1	20A	EX.UNNAMED LOAD	38
39	EX.WINDOW WASHER RECEPTS.	20A	1			1.1	1.1			1	20A	EX.EF-3-1 LEVEL 3	40
41	**(4301) PRINTER**	**20A**	**1**					1.1	0.9	1	20A	EX.(3002,3001) REC/UH-1	42
			TOTAL LOAD (kVA):	**14.7**		**14.2**		**13.7**					
			TOTAL LOAD (AMPS):	**40.7**		**59.0**		**57.2**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	36	63.88%	23.0		
Lighting	0	0.00%	0.0	**TOTAL CONN. LOAD (kVA):**	**42.5**
Power	0	0.00%	0.0	**TOTAL EST. DEMAND (kVA):**	**29.5**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**118.1**
				TOTAL EST. DEMAND (AMPS):	**246.0**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**141.7**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**295.2**

NOTES:
1. ALL TEXT IN BOLD INDICATE NEW CIRCUITS. 2. " * " INDICATES NEW CIRCUIT BREAKER.

EXISTING: NL3A SECTION 2

LOCATION: ELECTRICAL ROOM (3001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 208/120V | **kAIC RATING:** EXISTING
SUPPLY FROM: NL3A SECTION 1 | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 400A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
43	EX.LIGHTS (3102,3105)	20A	1	0.9	1.1					1	20A	EX.RECEPT. JUDGE BENCH (3113)	44
45	EX.LIGHTS (3119,3126)	20A	1			0.9	1.1			1	20A	EX.RECEPT. JUDGE BENCH (3113)	46
47	EX.LIGHTS (3A02)	20A	1					1.6	1.1	1	20A	EX.RECEPT.ATT.TABLES & KNEE WALL (3113)	48
49	EX.LIGHTS (3D02)	20A	1	1.6	1.1					1	20A	EX.FLOOR BOX RECEPT. (3107)	50
51	EX.LIGHTS (3008,3801) / FURN.REC.(4325)	20A	1			1.6	1.1			1	20A	EX.RECEPT. JUDGE BENCH (3107)	52
53	EX.AUDIO EQUIP (3B01) / FURN.REC.(4325)	20A	1					1.5	1.1	1	20A	EX.KNEE WALL & COL.REC.(3107)	54
55	EX.AUDIO EQUIP (3A01)	20A	1	0.9	1.1					1	20A	EX.FLOOR BOX RECEPT. (3127)	56
57	EX.AUDIO EQUIP (3D01)	20A	1			0.9	1.1			1	20A	EX.REC. JUDGE BENCH (3127)	58
59	EX.AUDIO EQUIP (3C01)	20A	1					0.9	1.1	1	20A	EX.RECEPT.ATT.TABLES & KNEE WALL (3127)	60
61	EX.UNNAMED LOAD	20A	1	0.9	1.1					1	20A	EX.FLOOR BOX REC. (3100)	62
63	EX.UNNAMED LOAD	20A	1			0.9	1.1			1	20A	EX.RECEPT. JUDGE BENCH (3100)	64
65	EX.UNNAMED LOAD	20A	1					0.9	1.1	1	20A	EX.KNEE WALL & COL.REC.(3100)	66
67	EX.UNNAMED LOAD	20A	1	0.9	1.1					1	20A	EX.TV PLUG RM.3B (3113)	68
69	EX.UNNAMED LOAD	20A	1			0.9	0.9			1	20A	EX.STEP LIFT 3B (3113)	70
71	EX.UNNAMED LOAD	20A	1					0.9	0.9	1	20A	EX.STEP LIFT (3107)	72
73	EX.UNNAMED LOAD	20A	1	0.9	0.9					1	20A	EX.STEP LIFT (3107)	74
75	EX.UNNAMED LOAD	20A	1			0.9	0.9			1	20A	EX.STEP LIFT (3127)	76
77	EX.UNNAMED LOAD	20A	1					0.9	0.9	1	20A	EX.STEP LIFT (3127)	78
79	EX.UNNAMED LOAD	20A	1	0.9	0.9					1	20A	EX.STEP LIFT (3100)	80
81	EX.UNNAMED LOAD	20A	1			0.9	0.9			1	20A	EX.STEP LIFT (3100)	82
83	EX.UNNAMED LOAD	20A	1					0.9	0.9	1	20A	EX.UNNAMED LOAD	84
			TOTAL LOAD (kVA):	**14.2**		**14.0**		**14.6**					
			TOTAL LOAD (AMPS):	**39.4**		**58.4**		**60.9**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	25	70.13%	17.4		
Lighting	5	125.00%	5.6	**TOTAL CONN. LOAD (kVA):**	**42.8**
Power	11	100.00%	10.8	**TOTAL EST. DEMAND (kVA):**	**36.5**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**118.9**
				TOTAL EST. DEMAND (AMPS):	**304.5**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**142.7**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**365.5**

NOTES:

EXISTING: NH3A

LOCATION: ELECTRICAL ROOM (3001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 480/277V | **kAIC RATING:** EXISTING
SUPPLY FROM: LEVEL 13 - UNIT SUBSTATION | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 400A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EX.LIGHTS (03122)	20A	1	2.0	2.0					1	20A	EX.LIGHTS (03006,03008)	2
3	EX.LIGHTS (03001)	20A	1			2.0	2.0			1	20A	EX.LIGHTS (03007) ATRIUM	4
5	EX.LIGHTS (03014)	20A	1					2.0	2.0	1	20A	EX.LIGHTS (03010)	6
7	EX.LIGHTS (03007) RAILING FIXTURE	20A	1	2.0	2.0					1	20A	EX.LIGHTS (03000) HOLDING CELL	8
9	EX.UNNAMED LOAD	20A	1			2.0	2.0			1	20A	EX.WOMENS & MEN BATHROOM LIGHTS	10
11	EX.UNNAMED LOAD	20A	1					2.0	2.2	1	20A	EX.UNNAMED LOAD	12
13				3.5	2.0					1	20A	EX.UNNAMED LOAD	14
15	EX.ESCALATOR #3 - 10 HP, CIR. 32,34,36	30A	3			3.5	0.0			1	20A	SPARE	16
17								3.5	0.0	1	20A	SPARE	18
19				3.5	2.5					**1**	**20A**	**VAV LEVEL 3**	20
21	EX.ESCALATOR #4 - 10 HP, CIR. 38,40,42	30A	3			3.5	2.0			1	20A	EX.UNNAMED LOAD	22
23								3.5	2.5	**1**	**20A**	**VAV LEVEL 3**	24
25				5.5	23.3								26
27	EX.RF-3 - 20 HP (03002) , CIR. 31,33,35	50A	3			5.5	23.3			**3**	**110A**	***AHU-3 CONTROL PANEL**	28
29								5.5	23.3				30
31				25.0	0.0					1	-	BUSSED SPACE	32
33	EX.75KVA XFMR (03001) FOR PANEL NL3A	100A	3			25.0	0.0			1	-	BUSSED SPACE	34
35								25.0	0.0	1	-	BUSSED SPACE	36
37	**VAV LEVEL 3**	**20A**	**1**	2.5	0.0					1	-	BUSSED SPACE	38
39	**VAV LEVEL 3**	**20A**	**1**			2.0	0.0			1	-	BUSSED SPACE	40
41	BUSSED SPACE	-	1					0.0	0.0	1	-	BUSSED SPACE	42
			TOTAL LOAD (kVA):	**75.8**		**72.8**		**71.5**					
			TOTAL LOAD (AMPS):	**91.1**		**303.4**		**297.8**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	0	0	0.0		
Lighting	18	125.00%	22.5	**TOTAL CONN. LOAD (kVA):**	**220.1**
Power	85	100.00%	85.2	**TOTAL EST. DEMAND (kVA):**	**224.6**
HVAC	75	100.00%	74.8	**TOTAL CONN. (AMPS):**	**264.7**
				TOTAL EST. DEMAND (AMPS):	**810.7**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**317.6**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**972.8**

NOTES:
1. ALL TEXT IN BOLD INDICATES NEW CIRCUIT. 2."*" INDICATES NEW CIRCUIT BREAKER. AIC TO MATCH EXISTING.

EXISTING: NL5C

LOCATION: MECHANICAL ROOM (5001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 208/120V | **kAIC RATING:** EXISTING
SUPPLY FROM: EX PANEL NL5A | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 400A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	**(4307,4308) RECEPTACLE**	20A	1	1.1	0.9					1	20A	EX.(4005,11,4A02,4002) REC.	2
3	**(4310,4311) RECEPTACLE**	20A	1			1.3	0.9			1	20A	EX.(4319,21, 4201) REC.	4
5	**(4103A) QUAD RECEPTACLE**	20A	1					0.7	0.9	1	20A	EX.(4312-14,4202) REC.	6
7	EX.(4002,327,003,B01) REC. / (3127) BLINDS	20A	1	0.9	0.9					1	20A	EX.(4302,07,11,013,012) REC.	8
9	EX.(4323,201,4325-27) REC.	20A	1			0.9	0.9			1	20A	EX.(4204,307,09,10,4100) REC. / (3113) BLINDS	10
11	EX.(4322,23,24) REC.	20A	1					0.9	0.9	1	20A	EX.(4005,10,4301,09,18,08) REC.	12
13	**(4000,4010,4209,4205) REC.**	**20A**	1	0.9	0.9					1	20A	EX.(4110,07,08,09,4203) REC. / (3107) BLINDS	14
15	**(COURTROOM 4B) LIGHTS**	**20A**	1			1.3	0.9			1	20A	EX.(4103.04,05,06,10) REC.	16
17	**(4304) BREAK RECEPTACLE**	**20A**	**1**					0.9	0.9	**1**	**20A**	**(4304) BREAK RECEPTACLE**	18
19	EX.(4303,04,02) REC / 3100 BLINDS	20A	1	1.1	0.9					**1**	**20A**	**(4304) BREAK RECEPTACLE**	20
21	**(4306,4301) RECEPTACLE**	**20A**	**1**			0.7	0.9			**1**	**20A**	**(4304) BREAK RECEPTACLE**	22
23	**(4305,4309) RECEPTACLE**	**20A**	**1**					1.1	0.9	**1**	**20A**	**(4304) BREAK RECEPTACLE**	24
25	**(4111) BREAK RECEPTACLE**	**20A**	**1**	1.1	0.9					**1**	**20A**	**EX (4108) REC. REFRIGERATOR**	26
27	**(4111) BREAK RECEPTACLE**	**20A**	**1**			1.1	0.9			1	20A	**(4318) RECEPTACLE**	28
29	**(4111) BREAK RECEPTACLE**	**20A**	**1**					1.1	0.7	1	20A	**(4318) RECEPTACLE**	30
31	EX.(4309,4100,02,4002) REC.	20A	1	1.1	0.9					1	20A	EX.UNNAMED LOAD	32
33	EX.(4102,4203) REC.	20A	1			1.1	0.9			1	20A	EX.(4204) REC.	34
35	EX.(4002) EWC	20A	1					1.1	0.9	1	20A	EX.(4204) REC.	36
37	EX.(4377) CCTV CAMERA	20A	1	1.1	0.9					1	20A	EX.INSTAHOT 4TH FLOOR	38
39	EX.(4B01) REC. AUDIO EQUIP.	20A	1			0.9	0.9			1	20A	EX.INSTAHOT 5TH FLOOR	40
41	**(4111,4303,4301) RECEPTACLE**	**20A**	**1**					1.1	1.3	**1**	**20A**	**(4105) RECEPTACLE**	42
			TOTAL LOAD (kVA):	**13.6**		**13.5**		**13.4**					
			TOTAL LOAD (AMPS):	**37.7**		**56.4**		**55.8**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	41	62.34%	25.3		
Lighting	0	0.00%	0.0	**TOTAL CONN. LOAD (kVA):**	**40.5**
Power	0	0.00%	0.0	**TOTAL EST. DEMAND (kVA):**	**25.3**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**112.4**
				TOTAL EST. DEMAND (AMPS):	**210.4**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**134.9**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**252.5**

NOTES:
1. ALL TEXT IN BOLD INDICATE NEW CIRCUITS. 2. " * " INDICATES NEW CIRCUIT BREAKER.

MTFA
architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21046
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066291
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
07/14/2023	CONSTRUCTION DOCUMENTS	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2

DRAWN: JSR | CHECKED: WJG
SCALE: AS INDICATED
SHEET TITLE: **ELECTRICAL PANEL SCHEDULES**

SHEET # **E701**

EXISTING: NL5A SECTION 1

LOCATION: MECHANICAL ROOM (5001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 208/120V | **kAIC RATING:** EXISTING
SUPPLY FROM: EX 75KVA XFMR EAST (5001) | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 300A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** 300A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EX.(5217,5218,5219) REC.	20A	1	1.1	0.0						20A	**SPARE**	2
3	EX.(5217-19,5220) REC.	20A	1			1.1	1.3				20A	**(4109,4110) RECEPTACLE**	4
5	EX.(5214,5215,5216) REC.	20A	1					1.1	1.3		20A	**(4105,4107,4108) RECPETACLE**	6
7	EX.(5214,5215,5216) REC.	20A	1	1.1	1.1						20A	EX.(5217) COPIER REC.	8
9	EX.(5212,5213) REC.	20A	1			1.1	1.1				20A	Ex.(5217) MICROWAVE REC.	10
11	EX.(5211,5212) REC.	20A	1					1.1	1.1		20A	EX.(5217) COFFEE MACH.REC.	12
13	EX.(5207,5208,5209,5210) REC.	20A	1	1.1	1.1						20A	EX.(5217) REFRIGERATOR REC.	14
15	EX.(5208,5209) REC.	20A	1			1.0	1.1				20A	EX.(5205,5212) REC. / (5208) LIGHTS	16
17	EX.(5207) COM.SYS.FURN. (I)	20A	1					1.0	1.1		20A	EX.(5217,5204,5225,5100) REC.	18
19	EX.(5207) COM.SYS.FURN. (I)	20A	1	1.0	1.1						20A	EX.(5207,5208,5202,5209) REC.	20
21	EX.(5210) COM.SYS.FURN. (I)	20A	1			1.0	1.1				20A	EX.(5213,5215,5216,5218) REC.	22
23	EX.(5210) COM.SYS.FURN. (I)	20A	1					1.0	1.1		20A	EX.(5210,5211,5212,5207) REC.	24
25	EX.(5220) COM.SYS.FURN. (I)	20A	1	1.0	1.1						20A	EX.(5121) COPIER	26
27	EX.(5220) COM.SYS.FURN. (I)	20A	1			1.0	1.1				20A	EX.(5122,5121,5112,5116) REC.	28
29	EX.(5131,32,24) COM.SYS.FURN. (I)	20A	1					1.0	1.1		20A	EX.(5123,24,30,29,14) REC.	30
31	EX.(5131,32,24) COM.SYS.FURN. (I)	20A	1	1.0	1.1						20A	EX.(5106,14,15,17,18,1935) REC.	32
33	EX.(5112,14,16) COM.SYS.FURN. (I)	20A	1			1.0	1.1				20A	EX.(5106,07,10,11) REC.	34
35	EX.(5112,14,16) COM.SYS.FURN. (I)	20A	1					1.0	1.1		20A	EX.(5112,06,08,02,01,27) REC.	36
37	EX.(5115) COM.SYS.FURN. (I)	20A	1	1.0	1.1						20A	EX.(5108) COFFEE MACH.	38
39	EX.(5115) COM.SYS.FURN. (I)	20A	1			1.0	1.1				20A	EX.(5108) MICROWAVE	40
41	EX.(5001) REC.	20A	1					1.1	1.1		20A	EX.(5108) REFRIGERATOR REC.	42
			TOTAL LOAD (kVA):	**13.9**		**15.1**		**15.2**					
			TOTAL LOAD (AMPS):	**38.6**		**62.8**		**63.2**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	44	61.33%	27.1		
Lighting	0	#DIV/0!	0.0	**TOTAL CONN. LOAD (kVA):**	**44.1**
Power	0	0.00%	0.0	**TOTAL EST. DEMAND (kVA):**	**27.1**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**122.5**
				TOTAL EST. DEMAND (AMPS):	**225.5**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**146.9**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**270.6**

NOTES:
1. ALL TEXT IN BOLD INDICATE NEW CIRCUITS. 2. " * " INDICATES NEW CIRCUIT BREAKER.

EXISTING: NL5A SECTION 2

LOCATION: MECHANICAL ROOM (5001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 208/120V | **kAIC RATING:** EXISTING
SUPPLY FROM: NL5A SECTION 1 | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 600A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
43	EX.(5115,17,18,19) SYS.FURN.(I)	20A	1	1.2	1.9					1	20A	EX.(5234,24,29) LIGHTS, RELAY PNL COMP. CONT.	44
45	EX.(5115,17,18,19) SYS.FURN.(I)	20A	1			1.2	1.9			1	20A	EX.(5120,5206) LIGHTS	46
47	EX.(5111,13,14,06) COMP.SYS.FURN.(I)	20A	1					1.2	1.9	1	20A	EX.(5121) PLUG.OLD	48
49	EX.(5111,13,14,06) COMP.SYS.FURN.(I)	20A	1	1.2	1.9					1	20A	EX.(5121) PRINTER REC.	50
51	EX.(5105,07,10) COMP.SYS.FURN.(I)	20A	1			1.2	1.5			2	30A	EX.L6-30R RECEPTACLE FOR UPS (5205)	52
53	EX.(5105,07,10) COMP.SYS.FURN.(I)	20A	1					1.2	1.5				54
55	EX.(5112,09,30) COMP.SYS.FURN.(I)	20A	1	1.2	2.8					1	30A	EX.(4100) XEROX	56
57	EX.(5112,09,30) COMP.SYS.FURN.(I)	20A	1			1.2	1.2			1	20A	EX.(4100) QUAD RECEPT.	58
59	EX.(5101,02,03,04) COMP.SYS.FURN.(I)	20A	1					1.2	1.2	1	20A	EX PRINTER RECEPTACLE	60
61	EX.(5105,13,14,08) COMP.FURN.(I)	20A	1	1.2	1.2					1	20A	EX PRINTER RECEPTACLE	62
63	EX.OUTSIDE A/C UNIT ROOM 5113	30A	2			1.4	1.2			1	20A	EX PRINTER RECEPTACLE	64
65								1.4	1.2	1	20A	EX PRINTER RECEPTACLE	66
67	EX.INSIDE A/C UNIT ROOM 5025	20A	2	1.0	1.2					1	20A	EX UNNAMED LOAD	68
69						1.0	1.1						70
71	EX.UNNAMED LOAD	20A	1					1.1	1.1	**3**	**20A**	**(4105) SYSTEM FURNITURE***	72
73	NORTH WINDOW WASH. PLUG	20A	1	1.1	1.1								74
75	SOUTH WINDOW WASH. PLUG	20A	1			0.0	1.1			**1**	**20A**	**(4105) SYSTEM FURNITURE**	76
77	DISC.SW. 1. 5HP VAC PUMP (5136)	30A	1					1.1	1.1				78
79	EX.DIS.SW. 5HP DISINTEGRATOR (5136)	30A	3	1.0	1.1					**3**	**20A**	**(4105) SYSTEM FURNITURE***	80
81						1.0	1.1						82
83								1.0	1.1	**1**	**20A**	**(4105) SYSTEM FURNITURE***	84
			TOTAL LOAD (kVA):	**34.6**		**31.6**		**32.8**					
			TOTAL LOAD (AMPS):	**96.0**		**131.7**		**136.7**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	94	55.31%	52.1		
Lighting	0	0.00%	0.0	**TOTAL CONN. LOAD (kVA):**	**99.0**
Power	0	0.00%	0.0	**TOTAL EST. DEMAND (kVA):**	**56.9**
HVAC	5	100.00%	4.9	**TOTAL CONN. (AMPS):**	**274.7**
				TOTAL EST. DEMAND (AMPS):	**474.5**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**329.7**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**569.4**

NOTES:
1. ALL TEXT IN BOLD INDICATE NEW CIRCUITS. 2. " * " INDICATES NEW CIRCUIT BREAKER.

EXISTING: NH5A SECTION 1

LOCATION: MECHANICAL ROOM (5001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 480/277V | **kAIC RATING:** EXISTING
SUPPLY FROM: EX LEVEL 13 UNIT SUBSTATION | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 400A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	**(4300) LIGHTS**	**20A**	1	1.7	25.0								2
3	EX.LIGHTS COURT (3113)	20A	1			3.0	25.0			3	100A	EX.75KVA XFMR (WEST), (05000) FOR PNL NL5B	4
5	EX.LIGHTS COURT (3113)	20A	1					3.0	25.0				6
7	**(4205) LIGHTS**	**20A**	1	0.7	1.5					1	**20A**	**(4205) LIGHTS**	8
9	**(4204) LIGHTS**	**20A**	1			1.2	2.0			1	**20A**	**(4000) LIGHTS**	10
11	EX.LIGHTS (4316,4337)	20A	1					3.0	3.0	1	20A	EX.LIGHTS (04006), RELAY PNL#1 COMP.CONTROL	12
13	EX.LIGHTS (4200)	20A	1	3.0	3.0					1	20A	EX.LIGHTS (04007)	14
15	**(4105) LIGHTS**	**20A**	1			0.7	3.0			1	20A	EX.LIGHTS (03100)	16
17	**SPARE**	**20A**	1					0.0	2.6	**1**	**20A**	**VAV LEVEL 4**	18
19	***REPLACE BREAKER	20A	1	3.0	3.1					**1**	**20A**	**VAV LEVEL 4**	20
21	EX.LIGHTS COURT 3A (3127)	20A	1			3.0	2.5			**1**	**20A**	**VAV LEVEL 4**	22
23	EX.UNNAMED LOAD	20A	1					3.0	3.5	**1**	**20A**	**VAV LEVEL 4**	24
25				4.0	3.1					**1**	**20A**	**VAV LEVEL 4**	26
27	EX.AHU-5 20 HP	50A	3			4.0	1.8			**1**	**20A**	**VAV LEVEL 4**	28
29								4.0	1.0	1	20A	EX.VAV LEVEL 5	30
31				25.0	1.0					1	20A	EX.VAV LEVEL 5	32
33	EX.75KVA EAST FOR PANEL NL5A & NL5C	100A	3			25.0	1.0			1	20A	EX.UNNAMED LOAD	34
35								25.0	1.3				36
37	EX.LIGHTS (05216)	20A	1	3.0	1.3					3	20A	EX.EF-4 LEVEL 4	38
39	EX.LIGHTS (05224)	20A	1			3.0	1.3						40
41	EX.LIGHTS (05114)	20A	1					3.0	3.0	1	20A	EX.UNNAMED LOAD	42
			TOTAL LOAD (kVA):	**78.3**		**76.5**		**80.4**					
			TOTAL LOAD (AMPS):	**94.1**		**318.6**		**335.0**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	0	0.00%	0.0		
Lighting	47	125.00%	58.4	**TOTAL CONN. LOAD (kVA):**	**234.6**
Power	150	100.00%	150.0	**TOTAL EST. DEMAND (kVA):**	**246.3**
HVAC	26	100.00%	26.0	**TOTAL CONN. (AMPS):**	**282.2**
				TOTAL EST. DEMAND (AMPS):	**889.3**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**338.7**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**1,067.1**

NOTES:
1. ALL TEXT IN BOLD INDICATE NEW CIRCUITS. 2.***BREAKER 19 IS LABELED "BAD BREAKER", REPLACE BREAKER 19 WITH NEW SQUARE D 277V, 20A, 1 POLE BREAKER, 65KAIC.

EXISTING: NH5A SECTION 2

LOCATION: MECHANICAL ROOM (5001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 480/277V | **kAIC RATING:** EXISTING
SUPPLY FROM: NH5A SECTION 1 (5001) | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 400A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
43	EX.LIGHTS (50113)	20A	1	3.0	1.5								44
45	EX.LIGHTS (05205)	20A	1			3.0	1.5			3	20A	EX.EF-5 LEVEL 5	46
47	EX.LIGHTS (05210)	20A	1					3.0	1.5				48
49	EX.LIGHTS (05237)	20A	1	3.0	3.0					1	20A	EX.MEN'S & WOMEN'S BATHROOM 5TH FLOOR	50
51	EX.LIGHTS (05125)	20A	1			3.0	0.0			1	**20A**	**SPARE**	52
53	EX.LIGHTS (05114)	20A	1					3.0	3.0	1	20A	EX.UNNAMED LOAD	54
55	EX.LIGHTS (05315)	20A	1	3.0	0.0					1	-	BUSSED SPACE	56
57	EX.LTGS (05100) RELAY PNL #4 COMPU. CONTROL	20A	1			3.0	0.0			1	-	BUSSED SPACE	58
59	EX.LTGS (05006) RELAY PNL #5 COMPU. CONTROL	20A	1					3.0	0.0	1	-	BUSSED SPACE	60
61	BUSSED SPACE	-	1	0.0	0.0					1	-	BUSSED SPACE	62
63	BUSSED SPACE	-	1			0.0	0.0			1	-	BUSSED SPACE	64
65	BUSSED SPACE	-	1					0.0	0.0	1	-	BUSSED SPACE	66
67	BUSSED SPACE	-	1	0.0	0.0					1	-	BUSSED SPACE	68
69	BUSSED SPACE	-	1			0.0	0.0			1	-	BUSSED SPACE	70
71	BUSSED SPACE	-	1					0.0	0.0	1	-	BUSSED SPACE	72
73	BUSSED SPACE	-	1	0.0	0.0					1	-	BUSSED SPACE	74
75	BUSSED SPACE	-	1			0.0	0.0			1	-	BUSSED SPACE	76
77	BUSSED SPACE	-	1					0.0	0.0	1	-	BUSSED SPACE	78
79	BUSSED SPACE	-	1	0.0	0.0					1	-	BUSSED SPACE	80
81	BUSSED SPACE	-	1			0.0	0.0			1	-	BUSSED SPACE	82
83	BUSSED SPACE	-	1					0.0	0.0	1	-	BUSSED SPACE	84
			TOTAL LOAD (kVA):	**13.5**		**10.5**		**13.5**					
			TOTAL LOAD (AMPS):	**16.2**		**43.8**		**56.3**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	0	0.00%	0.0		
Lighting	30	125.00%	37.5	**TOTAL CONN. LOAD (kVA):**	**37.5**
Power	3	100.00%	3.0	**TOTAL EST. DEMAND (kVA):**	**45.0**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**45.10**
				TOTAL EST. DEMAND (AMPS):	**162.45**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**54.13**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**194.95**

NOTES:

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703.524.6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066291
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
07/14/2023	CONSTRUCTION DOCUMENTS	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2

DRAWN: JSR | CHECKED: WJG
SCALE: AS INDICATED
SHEET TITLE: **ELECTRICAL PANEL SCHEDULES**

SHEET # **E702**

EXISTING: NL5B SECTION 1

LOCATION: ELEC./COMM. RM (5230) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 208/120V | **kAIC RATING:** EXISTING
SUPPLY FROM: EX 75KVA XFMR WEST (5230) | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 300A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** 300A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EX.(5239) LIGHTS	20A	1	1.1	0.9					1	**20A**	**(4203,4204,288) RECEPTACLE**	2
3	EX.(5237) COM.SYS.FURN.(I)	20A	1			0.9	0.7			1	**20A**	**(4204) RECEPTACLE**	4
5	EX.(5237) COM.SYS.FURN.(I)	20A	1					0.9	0.7	1	**20A**	**(4105,4106) RECEPTACLE**	6
7	EX.(5237) COM.SYS.FURN.(I)	20A	1	0.9	1.4					1	**20A**	**(COURTROOM 4A) LIGHTS**	8
9	EX.(5237) COM.SYS.FURN.(I)	20A	1			0.9	0.9			1	20A	EX.(5308) LIGHTS	10
11	EX.(5221,22,23,24) REC.	20A	1					0.9	0.9	1	20A	EX.(5237-5239,27) REC.	12
13	EX.(5221,24) REC.	20A	1	0.9	0.9					1	20A	EX.(5219,20-24) REC.	14
15	EX.(5237) SYS.FURN / (5240).(I)	20A	1			0.9	0.9			1	20A	EX.(5238) COFFEE MACH.	16
17	EX.(5237) SYS.FURN / (5240).(I)	20A	1					0.9	0.9	1	20A	EX.(5237) MICROWAVE	18
19	EX.(5228,229,305,06)REC.	20A	1	0.9	0.9					1	20A	EX.(5238) REFRIGERATOR REC.	20
21	EX.(5228,29,305,311) REC.	20A	1			0.9	0.9			1	20A	EX.(5237,5003-6,5300,05,04) REC.	22
23	EX.(5315) COMP.SYS.FURN.(I)	20A	1					0.9	0.9	1	20A	EX.(5225,26,27,28) REC.	24
25	EX.(5315) COMP.SYS.FURN.(I)	20A	1	0.9	0.9					1	20A	EX.(5237,5003-6,5300,05,04) REC.	26
27	EX.(5307,08,09) REC.	20A	1			0.9	0.9			1	20A	EX.(5007,303,317,320,322,302) REC.	28
29	EX.(5307,08,09) REC.	20A	1					0.9	0.9	1	20A	EX.(5304) REC.	30
31	EX.(5310,11,12) REC.	20A	1	0.9	0.9					1	20A	EX.(5304) REC.	32
33	EX.(5310,11,12) REC.	20A	1			0.9	0.9			1	20A	EX.(5303) COPIER REC.	34
35	EX UNNAMED LOAD	20A	1					0.9	0.9	1	20A	EX.(5313) REC.	36
37	EX UNNAMED LOAD	20A	1	0.9	0.9					1	20A	EX.(5306,05,229,2843,37) REC.	38
39	EX UNNAMED LOAD	20A	1			0.9	0.9			1	20A	EX.(5307-5312) REC.	40
41	EX UNNAMED LOAD	20A	1					0.9	0.9	1	20A	EX UNNAMED LOAD	42
			TOTAL LOAD (kVA):	**13.3**		**12.4**		**12.4**					
			TOTAL LOAD (AMPS):	**36.8**		**51.8**		**51.8**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	34	64.78%	21.9		
Lighting	4	125.00%	5.3	**TOTAL CONN. LOAD (kVA):**	**38.1**
Power	0	0.00%	0.0	**TOTAL EST. DEMAND (kVA):**	**27.2**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**105.7**
				TOTAL EST. DEMAND (AMPS):	**227.0**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**126.9**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**272.4**

NOTES:
1. ALL TEXT IN BOLD INDICATE NEW CIRCUITS. 2. " * " INDICATES NEW CIRCUIT BREAKER.

EXISTING: NL5B SECTION 2

LOCATION: ELEC./COMM. RM (5230) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 208/120V | **kAIC RATING:** EXISTING
SUPPLY FROM: EX NL5B SECTION 1 | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 400A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
43	**(4010,4206) RECEPECTACLE**	**20A**	**1**	0.7	1.1					1	20A	EX.(5320) COFFEE MACH.	44
45	**(4206) RECEPTACLE**	**20A**	**1**			1.1	1.1			1	20A	EX.(5320) MICROWAVE	46
47	**(4A) RECEPTACLE**	**20A**	**1**					1.1	1.1	1	20A	EX.(5320) REFRIGERATOR	48
49	**(4000S,4205,4A03,4A1) RECEPTACLE***	**20A**	**1**	1.1	1.1					1	20A	EX.(5314,09,24,10) REC.	50
51	**(4205) RECEPTACLE**	**20A**	**1**			0.5	1.1			1	20A	EX.(5309,5105,510,103,324) REC.	52
53	**(4B) RECEPTACLE**	**20A**	**1**					0.9	1.1	1	20A	EX.(5302) REC.	54
55	**(4103A) NEMA L5-20R RECEPTACLE**	**20A**	1	1.1	1.1					1	20A	EX.(5006) EWC	56
57	**(4103A) NEMA L5-20R RECEPTACLE**	**20A**	1			1.1	1.1			1	20A	EX. EXHAUST FAN #5	58
59	EX.(4103,04,06,4305) SYS.FURN.(I)	20A	1					1.1	1.1	1	20A	EX "NEW" COPIER POWER POLE	60
61	EX.(4103,04,06,4305) SYS.FURN.(I)	20A	1	1.1	1.1					1	20A	EX OFFICE RECEPTACLES	62
63	EX.UPS	20A	1			1.1	1.1			1	20A	EX OFFICE RECEPTACLES	64
65	EX PRINTER REC.	30A	1					1.1	1.1	1	20A	EX COPIER / PRINTER RECEPTACLE	66
67	EX PRINTER REC.	20A	1	1.1	1.0					1	20A	EX SPACE HEATER	68
69	EX PRINTER REC.	20A	1			1.1	1.0			1	20A	EX SPACE HEATER	70
71	EX FRONT COUNTER REC.	20A	1					1.1	1.0	1	20A	EX SPACE HEATER	72
73	30A/P REC. FOR OSS SERVER IN COMMUNI. ROOM	30A	1	2.2	0.9					**1**	**20A**	**(4A) RECEPTACLE**	74
75	**(4B,4000S) RECEPTACLE***	**20A**	**1**			0.5	1.1			**1**	**20A**	**(4A) RECEPTACLE**	76
77	**(4B) RECEPTACLE***	**20A**	**1**					0.7	0.5	**1**	**20A**	**(4B) RECEPTACLE**	78
79	**(4A01,4B01) RECEPTACLE***	**20A**	**1**	1.1	0.5					**1**	**20A**	**(4103A) NEMA L5-20R RECEPTACLE***	80
81	**(4000S, 4A03,4007,4008) RECEPTACLE***	**20A**	**1**			1.1	1.1			**1**	**20A**	**(4103A) NEMA L5-20R RECEPTACLE***	82
83	**(4205) LIFT***	**20A**	**1**					1.1	0.7	**1**	**20A**	**(4103A) NEMA L5-20R QUAD RECEPTACLE***	84
			TOTAL LOAD (kVA):	**15.2**		**14.2**		**13.8**					
			TOTAL LOAD (AMPS):	**42.3**		**59.0**		**57.4**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	39	62.79%	24.5		
Lighting	0	0.00%	0.0	**TOTAL CONN. LOAD (kVA):**	**43.2**
Power	0	0.00%	0.0	**TOTAL EST. DEMAND (kVA):**	**28.6**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**119.8**
				TOTAL EST. DEMAND (AMPS):	**238.7**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**143.8**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**286.4**

NOTES:
1. ALL TEXT IN BOLD INDICATE NEW CIRCUITS. 2. " * " INDICATES NEW CIRCUIT BREAKER.

EXISTING: EH3A

LOCATION: ELECTRICAL ROOM (3001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 480/277V | **kAIC RATING:** EXISTING
SUPPLY FROM: EX EH7A PANEL | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 125A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	**LIGHTS LEVEL 4**	**20A**	1	1.1	1.1					1	20A	EX.LIGHTS LEVEL 2	2
3	EX.LIGHTS LEVEL 3 & 4 COURT ROOMS	20A	1			1.1	1.1			1	20A	EX.LIGHTS LEVEL 2 BY ESCALATOR	4
5	EX.LIGHTS LEVEL 3 & 4 COURT ROOMS	20A	1					1.1	1.1	1	20A	EX.LIGHTS LEVEL 3 HALL	6
7	EX UNNAMED LOAD	20A	1	1.1	1.1					1	20A	EX.LIGHTS LEVEL 3 RAIL FIXTURE	8
9	EX UNNAMED LOAD	20A	1			1.1	1.1			1	20A	EX.UNNAMED LOAD	10
11	EX UNNAMED LOAD	20A	1					1.1	1.1	1	20A	EX UNNAMED LOAD	12
13	EX UNNAMED LOAD	20A	1	1.1	0.0					1	20A	SPARE	14
15	EX UNNAMED LOAD	20A	1			1.1	0.0			1	20A	SPARE	16
17	EX UNNAMED LOAD	20A	1					1.1	0.0	1	-	BUSSED SPACE	18
19	BUSSED SPACE	-	1	0.0	0.0					1	-	BUSSED SPACE	20
21	BUSSED SPACE	-	1			0.0	0.0			1	-	BUSSED SPACE	22
23	BUSSED SPACE	-	1					0.0	0.0	1	-	BUSSED SPACE	24
25	BUSSED SPACE	-	1	0.0	0.0					1	-	BUSSED SPACE	26
27	BUSSED SPACE	-	1			0.0	0.0			1	-	BUSSED SPACE	28
29	BUSSED SPACE	-	1					0.0	0.0	1	-	BUSSED SPACE	30
			TOTAL LOAD (kVA):	**5.5**		**5.5**		**5.5**					
			TOTAL LOAD (AMPS):	**6.6**		**22.9**		**22.9**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	0	0.00%	0.0		
Lighting	17	125.00%	20.6	**TOTAL CONN. LOAD (kVA):**	**16.5**
Power	0	0.00%	0.0	**TOTAL EST. DEMAND (kVA):**	**20.6**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**19.8**
				TOTAL EST. DEMAND (AMPS):	**74.5**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**23.8**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**89.4**

NOTES:
1. ALL TEXT IN BOLD INDICATES NEW CIRCUIT. 2."*" INDICATES NEW CIRCUIT BREAKER. A/C TO MATCH EXISTING.

EXISTING: EL3A

LOCATION: ELECTRICAL ROOM (3001) | **NEUTRAL BUS:** Existing | **VOLTAGE:** 208/120V | **kAIC RATING:** EXISTING
SUPPLY FROM: EX PANEL EL6A | **GROUND BUS:** Existing | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **ISOLATED GROUND BUS:** Existing | **WIRES:** 4 | **MAINS RATING:** 225A
ENCLOSURE: NEMA 1 | **200% NEUTRAL BUS:** Existing | **MCB RATING:** N/A

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EX.LIGHTS LEVEL 2	20A	1	1.1	1.1					1	20A	EX.(3005) TELE. BACKBOARD REC	2
3	EX.ESCALATOR PIT LTS & REC	20A	1			1.1	1.1			1	20A	EX.(3005) TELE. BACKBOARD REC	4
5	EX.ESCALATOR PIT LTS & REC	20A	1					1.1	1.1	1	20A	EX.J BOX DOOR HARDWARE L-2	6
7	EX.EF-3-3/ELEV.LOBBY 9 & 10 REC	20A	1	1.1	1.1					1	20A	EX.UNNAMED LOAD	8
9	EX.ELEV. LOBBY 7 & 8 REC	20A	1			1.1	1.1			1	20A	EX.J BOX DOOR HARDWARE L-4	10
11	EX.TEMP. CONTROL PANEL 2ND FL.	20A	1					1.1	1.1	1	20A	EX UNNAMED LOAD	12
13	EX.TEMP. CONTROL PANEL 2ND FL.	20A	1	1.1	1.1					1	20A	EX.SECURITY CABINET 3RD FL	14
15	EX.SECURITY CABINET 2ND FL	20A	1			1.1	1.1			1	20A	EX.SECURITY CABINET 3RD FL	16
17	EX.SECURITY CABINET 2ND FL	20A	1					1.1	1.1	1	20A	EX.SECURITY CABINET 3RD FL	18
19	EX.SECURITY CABINET 2ND FL	20A	1	1.1	1.1					1	20A	EX.SECURITY CABINET 3RD FL	20
21	EX.SECURITY CABINET 2ND FL	20A	1			1.1	1.1			1	20A	EX.(2005) TELE. BACKBOARD REC	22
23	EX.3RD FL F/A BOOSTER PANEL	20A	1					1.1	1.1	1	20A	EX.(2005) TELE. BACKBOARD REC	24
25	EX.2ND FL F/A BOOSTER PANEL	20A	1	1.1	1.1					1	20A	EX.1ST SEC CABINET QUAD	26
27	EX.1ST FL F/A BOOSTER PANEL	20A	1			1.1	1.1			1	20A	EX.2ND SEC CABINET QUAD	28
29	EX.P2 LVL F/A BOOSTER PANEL	20A	1					1.1	1.1	1	20A	EX.3RD SEC CABINET QUAD	30
31	EX.P1 LVL F/A BOOSTER PANEL	20A	1	1.1	0.7					**1**	**20A**	**(4009) DEDICATED 5-20R QUAD***	32
33	**(4006) DEDICATED 5-20R QUAD***	**20A**	**1**			0.7	0.7			**1**	**20A**	**(4009) DEDICATED 5-20R QUAD***	34
35	**(4009) DEDICATED 5-20R REC***	**20A**	**1**					0.7	2.5	**1**	**30A**	**(4103A) NEMA L5-30R SIMPLEX RECEPTACLE***	36
37	**(4103A,4006,4009) RECEPTACLE***	**20A**	**1**	1.1	2.5					**1**	**30A**	**(4103A) NEMA L5-30R SIMPLEX RECEPTACLE***	38
39	**(4000A) DEDICATED 5-20R QUAD***	**20A**	**1**			0.7	1.7			**1**	**20A**	**(4103A) NEMA L5-20R SIMPLEX RECEPTACLE***	40
41	BUSSED SPACE	-	1					0.0	1.7	**1**	**20A**	**(4103A) NEMA L5-20R SIMPLEX RECEPTACLE***	42
			TOTAL LOAD (kVA):	**16.2**		**14.6**		**15.7**					
			TOTAL LOAD (AMPS):	**45.0**		**61.0**		**65.5**					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED LOAD	PANEL TOTALS	
Receptacle	27	68.44%	18.6		
Lighting	6	125.00%	8.1	**TOTAL CONN. LOAD (kVA):**	**46.6**
Power	13	100.00%	13.0	**TOTAL EST. DEMAND (kVA):**	**39.6**
HVAC	0	0.00%	0.0	**TOTAL CONN. (AMPS):**	**129.2**
				TOTAL EST. DEMAND (AMPS):	**330.2**
				TOTAL CONN. W/ 20% SPARE (AMPS):	**155.1**
				TOTAL EST. DEMAND W/ 20% SPARE (AMPS):	**396.2**

NOTES:
1. ALL TEXT IN BOLD INDICATE NEW CIRCUITS. 2. " * " INDICATES NEW CIRCUIT BREAKER.

MTFA architecture
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MEP / FP
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540.347.5001

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DRAWN: JSR | CHECKED: WJG
SCALE: AS INDICATED
SHEET TITLE: **ELECTRICAL PANEL SCHEDULES**

SHEET # **E703**

EQUIPMENT DISCONNECT AND CONTROL SCHEDULE

EQUIPMENT TAGS	DESCRIPTION	HP	FLA	MCA	VOLTAGE	# OF POLES	DISC. SW.	ENCLOSURE TYPE	BRANCH WIRING	PANEL	REMARKS
VAV 301	VARIABLE AIR VOLUME UNIT	1 / 3	1.60	2.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 302	VARIABLE AIR VOLUME UNIT	1 / 3	1.60	2.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 306	VARIABLE AIR VOLUME UNIT	1 / 3	1.60	2.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 310	VARIABLE AIR VOLUME UNIT	1 / 3	1.60	2.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 311	VARIABLE AIR VOLUME UNIT	1 / 3	1.60	2.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 312	VARIABLE AIR VOLUME UNIT	1 / 10	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 315	VARIABLE AIR VOLUME UNIT	1 / 2	3.50	4.38	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 316	VARIABLE AIR VOLUME UNIT	1 / 10	-	-	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 317	VARIABLE AIR VOLUME UNIT	1 / 4	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 318	VARIABLE AIR VOLUME UNIT	1 / 4	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 319	VARIABLE AIR VOLUME UNIT	1 / 10	-	-	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 322	VARIABLE AIR VOLUME UNIT	1 / 3	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 323	VARIABLE AIR VOLUME UNIT	1 / 3	1.60	2.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH3A	
VAV 401	VARIABLE AIR VOLUME UNIT	1	5.10	6.38	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 402	VARIABLE AIR VOLUME UNIT	1 / 3	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 404	VARIABLE AIR VOLUME UNIT	1 / 2	3.80	4.75	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 411	VARIABLE AIR VOLUME UNIT	1 / 3	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 414	VARIABLE AIR VOLUME UNIT	1	5.10	6.38	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 417	VARIABLE AIR VOLUME UNIT	1 / 3	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 420	VARIABLE AIR VOLUME UNIT	1 / 3	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 421	VARIABLE AIR VOLUME UNIT	1 / 3	2.40	3.00	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 437	VARIABLE AIR VOLUME UNIT	1	5.10	6.38	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 439	VARIABLE AIR VOLUME UNIT	1	5.10	6.38	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 440	VARIABLE AIR VOLUME UNIT	1	5.10	6.38	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	
VAV 441	VARIABLE AIR VOLUME UNIT	1	5.10	6.38	600	2	30AS/15AF	NEMA 1	2#10, 1#10 GND, 1/2" C	NH5A	

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DRAWN: JSR
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SCALE: AS INDICATED

SHEET TITLE:
POWER DISCONNECT SCHEDULE

SHEET #
E704

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTAGE	WATTAGE	BASIS OF DESIGN						REMARKS
				LAMP	LUMENS	CCT	MINIMUM CRI	MANUFACTURER	MODEL	
A1	2'X2' LAY IN LED FIXTURE	UNV	29.5	LED	3500	3500K	90	LEDALITE	42-22-D1-ST-L-935-35-A-1-D-E-N	
A1E	2'X2' LAY IN LED FIXTURE, ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	29.5	LED	3500	3500K	90	LEDALITE	42-22-D1-ST-L-935-35-A-B-D-E-N	
A2	2'X2' LAY IN LED FIXTURE	UNV	25.2	LED	3000	3000K	90	LEDALITE	42-22-D1-ST-L-935-30-A-1-D-E-N	
A2E	2'X2' LAY IN LED FIXTURE, ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	25.2	LED	3000	3000K	90	LEDALITE	42-22-D1-ST-L-935-30-A-B-D-E-N	
A3	2'X2' LAY IN LED FIXTURE	UNV	20.2	LED	2500	2500K	90	LEDALITE	42-22-D1-ST-L-935-25-A-1-D-E-N	
A3E	2'X2' LAY IN LED FIXTURE, ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	20.2	LED	2500	2500K	90	LEDALITE	42-22-D1-ST-L-935-25-A-B-D-E-N	
B1	4FT LINEAR LED - STANDARD	UNV	15.2	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPRO4-REC-FLSH-LED35-LO-4-TMW-SAL-LP-SC-UNV-X2-DM01	
B1E	4FT LINEAR LED - STANDARD, ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	15.2	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPRO4-REC-FLSH-LED35-LO-4-TMW-SAL-LP-SC-UNV-X2-DM01-EMHE-EMC	
B1.6	6FT LINEAR LED	UNV	22.8	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPRO4-REC-FLSH-LED35-LO-6-TMW-SAL-LP-SC-UNV-X2-DM01	
B1E.6	6FT LINEAR LED - ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	22.8	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPRO4-REC-FLSH-LED35-LO-6-TMW-SAL-LP-SC-UNV-X2-DM01-EMHE-EMC	
B1.8	8FT LINEAR LED	UNV	30.4	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPRO4-REC-FLSH-LED35-LO-8-TMW-SAL-LP-SC-UNV-X2-DM01	REPRESENTED AS 2 GROUPED 4FT FIXTURES
B1E.8	8FT LINEAR LED - ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	22.8	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPRO4-REC-FLSH-LED35-LO-8-TMW-SAL-LP-SC-UNV-X2-DM01-EMHE-EMC	REPRESENTED AS 2 GROUPED 4FT FIXTURES
B1.16	16FT LINEAR LED	UNV	60.8	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPRO4-REC-FLSH-LED35-LO-16-TMW-SAL-LP-SC-UNV-X2-DM01	REPRESENTED AS 4 GROUPED 4FT FIXTURES
B1.20	20FT LINEAR LED	UNV	76	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPRO4-REC-FLSH-LED35-LO-20-TMW-SAL-LP-SC-UNV-X2-DM01	REPRESENTED AS 5 GROUPED 4FT FIXTURES
B2.A	LINEAR LED - WITH CORNERS	UNV	106.4	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPR04-REC-FLSH-LED35-LO-SEE RCP-TMW-SAL-LPSC-UNV-X2-DM01-C2-90	6FTX8FT GROUPED RECTANGULAR PATTERN OF LINEAR FIXTURES
B2.B	LINEAR LED - WITH CORNERS	UNV	136.8	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPR04-REC-FLSH-LED35-LO-SEE RCP-TMW-SAL-LPSC-UNV-X2-DM01-C2-90	8FTX10FT GROUPED RECTANGULAR PATTERN OF LINEAR FIXTURES
B2.C	LINEAR LED - WITH CORNERS	UNV	91.6	LED	391 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPR04-REC-FLSH-LED35-LO-SEE RCP-TMW-SAL-LPSC-UNV-X2-DM01-C2-90	6FTX6FT GROUPED RECTANGULAR PATTERN OF LINEAR FIXTURES
B3	4FT LINEAR LED - WITH WALL	UNV	22.4	LED	582 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPR04-REC-FLSH-LED35-MO-4-TMW-SAL-LP-SC-UNV-X2/X3 WITH C8 CORNER-DM01	
B3.6	6FT LINEAR LED - WITH WALL	UNV	33.6	LED	582 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPR04-REC-FLSH-LED35-MO-6-TMW-SAL-LP-SC-UNV-X2/X3 WITH C8 CORNER-DM01	
B3.8	8FT LINEAR LED - WITH WALL	UNV	44.8	LED	582 LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPR04-REC-FLSH-LED35-MO-8-TMW-SAL-LP-SC-UNV-X2/X3 WITH C8 CORNER-DM01	
B4	LINEAR LED - GRAZER	UNV	3.8W/FT	LED	391LM/ LINEAR FT	3500K	90	PRUDENTIAL	BPR04-PER-REG1-LED35-LO-SEE RCP-TMW-MGZ-WTW OR LP(DEPENDING ON LOCATION)-SC-UNV-X2 OR X3 (DEPENDING ON LOCATION)-DM01	
C	COVE LED	120	4.0W/FT	LED	1548	3500K	90	INSIGHT	PAC-4-35K-120-SM-SEE RCP-120-TRI-WH-FL	
D	PENDANT LED	277	35.9	LED	4800LM/4FT	3500K	90	LEDALITE	EL-G-S-L-935-48-Q-N-SEE RCP-D-E-R-N-G-W-04-R6-3	DISTRIBUTION 65% UP/35% DOWN
E	EXIT SIGN	277	1.4	LED				LITHONIA LIGHTING	LE-P-R	REFER TO DRAWING E106 FOR DIRECTION OF ARROWS AND NUMBER FACE(S).
F1	DOWNLIGHT LED	UNV	30	LED	3000	3500K	80	SIGNIFY/LIGHTOLIER	6-R-N / P6R-DL-30-835-CL---Z10-U --	
F1E	DOWNLIGHT LED, ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	30	LED	3000	3500K	80	SIGNIFY/LIGHTOLIER	6-R-N / P6R-DL-30-835-CL----Z10-U----CAEM6	
F2	DOWNLIGHT LED - RETROFIT	UNV	30	LED	3000	3500K	80	SIGNIFY/LIGHTOLIER	6-R-R / P6R-DL-30-835-CL----Z10-U (Reusing existing trim)	
F2E	DOWNLIGHT LED - RETROFIT, ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	30	LED	3000	3500K	80	SIGNIFY/LIGHTOLIER	6-R-R / P6R-DL-30-835-CL---Z10-U--CAEM6 (Reusing existing trim)	
F3	DOWNLIGHT LED - RR RETROFIT	UNV	25	LED	3000	3500K	80	SIGNIFY/LIGHTOLIER	7R-R / C6L-30-8-35-W-Z10-U / Reusing existing trim	
F3E	DOWNLIGHT LED - RR RETROFIT, ON EMERGENCY CIRCUIT WITH EMERGENCY BATTERY PACK	UNV	25	LED	3000	3500K	80	SIGNIFY/LIGHTOLIER	7R-R / C6L-30-8-35-W-Z10-U-CAEM6 / Reusing existing trim	
F4	DOWNLIGHT LED - SM RETROFIT	UNV	31	LED	3000	3500K	80	SIGNIFY/LIGHTOLIER	4R-R / C4L-30-8-35-M-Z10---U-R / Reusing existing trim	
F5	DOWNLIGHT LED - WW RETROFIT	UNV	33	LED	3000	3500K	90	SIGNIFY/LIGHTOLIER	6-R-R / P6R-LW-30-835-CL---Z10-U (Reusing existing trim)	
G	COVE LED - REPLACEMENT	UNV	3.4W/FT	LED	350 Lm/FT	3500K	80	PINNACLE	M-A-835LO-SEE RCP-FL-U-FSD-1-0-W	
GE	COVE LED - REPLACEMENT ON EMERGENCY CIRCUIT	UNV	3.4W/FT	LED	350 Lm/FT	3500K	80	PINNACLE	M-A-835LO-SEE RCP-FL-U-FSD-E-1PL-W	
H1	VANDAL RESISTANT CORNER	UNV	75	LED	9273	3500K	90	ECLIPSE	575-4'-SPL-LED75-35K-80CRI-UNV-WH-D7B-OCC-TP	
H2	VANDAL RESISTANT SURFACE MOUNTED	UNV	29	LED	3948	3500K	80	ECLIPSE	574-SPL-LED30-35K-80CRI-UNV-WH-D7B-OCC-TP	
HE	VANDAL RESISTANT SURFACE MOUNTED WITH EMERGENCY BATTERY PACK	UNV	29	LED	3948	3500K	80	ECLIPSE	574-SPL-LED30-35K-80CRI-UNV-WH-D7B-OCC-TP-EL20W	
J1	FLAT DOWNLIGHT	UNV	8	LED	370	3500K	90	SIGNIFY/LIGHTOLIER	FD-3R-4-Z10-90-U-W	
K	DOWNLIGHT WALL WASHER	UNV	26	LED	2500	3500K	90	SIGNIFY/LIGHTOLIER	6-R-N / P6R-LW-25-835-CL---Z10-U	

NOTES:
1. COORDINATE AND REFERENCE THIS DRAWING ALONG WITH ARCHITECTURAL REFLECTED CEILING PLANS.
2. LIGHT FIXTURE SCHEDULE ARE FOR REFERENCE AND BASIS OF DESIGN ONLY. COORDINATE FINAL LIGHT FIXTURE SCHEDULE WITH ARCHITECT PLANS. IF DISCREPANCIES OCCURS BETWEEN SCHEDULES NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PRICING OR ORDERING.

LIGHTING CONTROLS LEGEND

SYMBOL	DESCRIPTION
DC	DCS: 80208 DCS CONTROLLER, 3X20A RELAYS WITH 0-10V DIMMING
$_{DS1}	DS1 DCS: 72815 DCS SERIES, DIMMING SWITCH - 1 ZONE - DIGITAL 2 WIRE, TOUCH PAD
$_{DS2}	DS2 DCS: DCS SERIES , DIMMING SWITCH - 2 ZONE - DIGITAL 2 WIRE, TOUCH PAD 72816
DT$_{COM}	DT QUATTRO COM1-24: 64700 DUALTECH PIR & 40KHZ ULTRASONIC PRESENCE DETECTOR
DT	DT QUATTRO DCS: 69344 DIGITAL TECH PIR & 40KHZ ULTRASONIC PRESENCE DETECTOR
$_{OS}	DT WLS 1-W: 66220 DUALTECH PIR & 40KHZ ULTRASONIC WALL SWITCH OCCUPANCY SENSOR
$_{OS}^{D}	DT WLS DIM: 54551 DUALTECH PIR & 40KHZ ULTRASONIC, 0-10 VOLT DIMMING, WALL SWITCH OCCUPANCY SENSOR
E2	EPC-2: 20A UL924 EMERGENCY POWER CONTROL WITH TEST SWITCH
E2$_{D}$	EPC-2-D: 20A UL924 EMERGENCY POWER CONTROL,0-10V, WITH TEST SWITCH
MW	MCS-W: 65963 MCS-W MOMENTARY CONTACT SWITCH - SPST - DECORA - WHITE
$_{NF1}	NF1 DCS: DCS SERIES, ON/OFF SWITCH - 1 ZONE, - DIGITAL 2 WIRE, TOUCH PAD 72818
$_{SS4}	SS4 DCS: DCS SERIES, SCENE SWITCH - 4 BUTTON +ON/OFF - DIGITAL 2 WIRE, TOUCH PAD 72822
$_{SS6}	SS6 DCS: DCS SERIES, SCENE SWITCH - 6 BUTTON +ON/OFF - DIGITAL 2 WIRE, TOUCH PAD 72823
TR	TR 250: 55791 POWER PACK, MANUAL/AUTO (ON) SWITCHING
OS$_{H}$	US HALLWAY DCS: 69341 DIGITAL 40KHZ ULTRASONIC PRESENCE DETECTOR

NOTES:
1. UL924 DEVICES PROVIDED FOR EMERGENCY EGRESS AREAS.
2. DCS CONTAINS TIMECLOCK CONTROL AND ALLOWS FOR ROOM CONTROLLERS TO BE NETWORKED.
3. REACH OUT TO LIGHTING ENVIRONMENTS (LE) CONTROLS CONTACT TO DISCUSS PROPOSED STRATEGY TO ENSURE DESIGN INTENT AND PROJECT REQUIREMENTS ARE MET.

MTFA architecture
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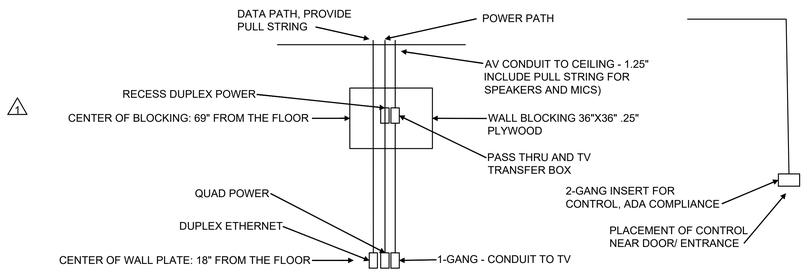
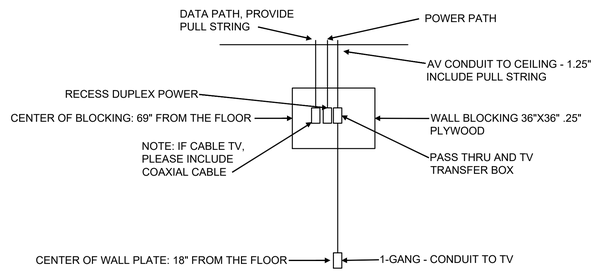
SHEET TITLE: LIGHTING FIXTURE SCHEDULE

SHEET #

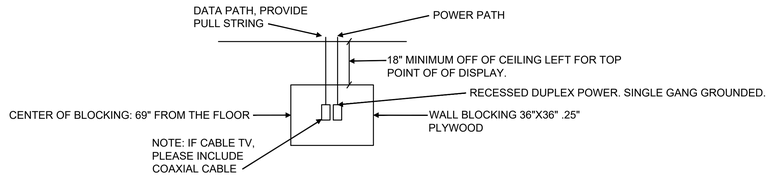
E705



1 AV BLOCK STANDARD: CONFERENCE ROOM WITH DISPLAYS



2 AV BLOCK STANDARD: CONSULT/COURT ROOM WITH DISPLAYS



3 AV BLOCK STANDARD: WAITING ROOM WITH DISPLAYS

GENERAL NOTES

1. REFER TO AUDIO VISUAL AND ARCHITECTURAL DRAWINGS/SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. COORDINATE MOUNTING HEIGHTS AND FINAL LOCATION OF ALL DISPLAYS AND MONITORS IN FIELD WITH ARCHITECT AND GENERAL CONTRACTOR.
3. GENERAL CONTRACTOR TO PROVIDE AND INSTALL ALL INFRASTRUCTURE FOR CONDUIT, PULL STRINGS, RING AND BACK BOXES FOR USE BY OTHERS.
4. AV AND DATA CONTRACTOR TO INSTALL CABLING AND DEVICES FOR TELECOMMUNICATION AND DATA.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 0402066291
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	⚠
07/14/2023	CONSTRUCTION DOCUMENTS	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2

DRAWN: JSR
CHECKED: WJG
SCALE: AS INDICATED

SHEET TITLE:
ELECTRICAL DETAILS

SHEET #
E706

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: 4TH FLOOR COURTS RENOVATIONS
Project Type: Alteration

Construction Site:
1425 N COURTHOUSE RD
ARLINGTON, Virginia 22201

Owner/Agent:
Virginia

Designer/Contractor:
Jean-Marc Rwamakuba
Ameresco
8825 STANDFORD BLVD, UNIT 210
COLUMBIA, Maryland 21045
4432768311
jrwamakuba@ameresco.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-BREAK 4304 (Common Space Types:Lounge/Breakroom)	130	0.62	81
2-INTAKE 4310 (Common Space Types:Office - Enclosed)	95	0.93	88
3-INTAKE 4308 (Common Space Types:Office - Enclosed)	105	0.93	98
4-INTAKE 4309 (Common Space Types:Office - Enclosed)	104	0.93	97
5-DDP SUPERVISOR 4307 (Common Space Types:Office - Enclosed)	112	0.93	104
6-DOORWAYS 4311 (Common Space Types:Office - Enclosed)	155	0.93	144
7-COURT LIASON 4312 (Common Space Types:Office - Enclosed)	108	0.93	100
8-COURT DUTY OFFICER 4313 (Common Space Types:Office - Enclosed)	98	0.93	91
9-COURT DUTY OFFICER 4314 (Common Space Types:Office - Enclosed)	98	0.93	91
10-INTAKE SUPERVISOR 4306 (Common Space Types:Office - Enclosed)	176	0.93	164
11-TOILET 4315T (Common Space Types:Restrooms)	49	0.85	42
12-DDP (2) (Common Space Types:Office - Enclosed)	157	0.93	146
13-OPEN SPACE 4301 CORRIDOR (Common Space Types:Corridor/Transition <8 ft wide)	224	0.66	148
14-TOILET 4205T (Common Space Types:Restrooms)	52	0.85	44
15-CLERK CORRIDOR 4A03 (Common Space Types:Corridor/Transition <8 ft wide)	71	0.66	47
16-DATA 4000A (Common Space Types:Computer Room)	27	1.33	36
17-COURTROOM 4A (Courthouse/Police Station/Penitentiary:Courtroom)	1093	1.39	1519
18-IT 4009 (Common Space Types:Computer Room)	82	1.33	109
19-IT 4006 (Common Space Types:Computer Room)	57	1.33	76
20-PUBLIC CORRIDOR 4000S (Common Space Types:Corridor/Transition <8 ft wide)	520	0.66	343
21-MEETING ROOM 4A01 (Common Space Types:Conference/Meeting/Multipurpose)	162	1.07	173
22-SPACE BETWEEN PUBLIC CORRIDOR 4000S AND CORRIDOR 4000W (Common Space Types:Corridor/Transition >=8 ft wide)	118	0.66	78
23-CORRIDOR 4000E (Common Space Types:Corridor/Transition >=8 ft wide)	520	0.66	343
24-CONSULT 4207 (Common Space Types:Office - Enclosed)	130	0.93	121
25-JUDGE'S CORRIDOR 4205 (Common Space Types:Corridor/Transition <8 ft wide)	1619	0.66	1069
26-CORRIDOR 4000W (Common Space Types:Corridor/Transition >=8 ft wide)	470	0.66	310

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
27-SPACE BETWEEN PUBLIC CORRIDOR 4000S AND CORRIDOR 4000E (Common Space Types:Corridor/Transition >=8 ft wide)	118	0.66	78
28-CONSULT 4206 (Common Space Types:Office - Enclosed)	67	0.93	62
29-BREAK 4111 (Common Space Types:Lounge/Breakroom)	110	0.85	186
30-HOLDING 4012 (Courthouse/Police Station/Penitentiary:Confinement Cell)	52	0.81	42
31-HOLDING 4004 (Courthouse/Police Station/Penitentiary:Confinement Cell)	38	0.81	31
32-INTAKE 4208 (Common Space Types:Office - Enclosed)	67	0.93	62
33-HOLDING 4005 (Courthouse/Police Station/Penitentiary:Confinement Cell)	39	0.81	32
34-HOLDING 4003 (Courthouse/Police Station/Penitentiary:Confinement Cell)	39	0.81	32
35-HOLDING 4013 (Courthouse/Police Station/Penitentiary:Confinement Cell)	62	0.81	50
36-HOLDING 4011 (Courthouse/Police Station/Penitentiary:Confinement Cell)	51	0.81	41
37-SECURE CORRIDOR 4210 (Common Space Types:Corridor/Transition <8 ft wide)	147	0.66	97
38-SECURE CORRIDOR 4209 (Common Space Types:Corridor/Transition <8 ft wide)	134	0.66	88
39-VIRTUAL INTAKE 4317 (Common Space Types:Office - Enclosed)	67	0.93	62
40-VIRTUAL INTAKE 4316 (Common Space Types:Office - Enclosed)	75	0.93	70
41-FINANCE 4112 (Common Space Types:Office - Enclosed)	78	0.93	73
42-LOBBY 4000 (Common Space Types:Lobby For Elevator)	369	0.68	251
43-SECURE CORRIDOR 4200 (Common Space Types:Corridor/Transition <8 ft wide)	111	0.66	73
44-WOMEN 4001 (Common Space Types:Restrooms)	219	0.85	186
45-CONSULT 4204 (Common Space Types:Office - Enclosed)	227	0.93	211
46-STORAGE 4202 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	52	0.46	24
47-SECURE CORRIDOR 4002 (Common Space Types:Corridor/Transition <8 ft wide)	97	0.66	64
48-CLERK 4203 (Common Space Types:Office - Enclosed)	103	0.93	96
49-WAITING 4008 (Common Space Types:Lobby - General)	275	1.00	275
50-INTAKE 4201 (Common Space Types:Office - Enclosed)	156	0.93	145
51-QUEING/WAITING 4100 (Common Space Types:Lobby - General)	240	1.00	240
52-WAITING 4007 (Common Space Types:Lobby - General)	285	1.00	285
53-MEETING ROOM 4B01 (Common Space Types:Conference/Meeting/Multipurpose)	151	1.07	162
54-FILE VIEW 4101 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	119	0.46	55
55-TOILET 4102T (Common Space Types:Restrooms)	48	0.85	41
56-ADS 4104 (Common Space Types:Office - Open Plan)	91	0.81	74
57-TELECOM 4103A (Common Space Types:Electrical/Mechanical)	67	0.43	29
58-HIGH DENSITY STORAGE 4103 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	287	0.46	132
59-STORAGE 4106 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	81	0.46	37
60-RECORDS ROOM 4108 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	105	0.46	48
61-STORAGE 4107 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	90	0.46	41
62-DEPUTY CLARK 4110 (Common Space Types:Office - Enclosed)	156	0.93	145
63-CHIEF CLARK 4109 (Common Space Types:Office - Enclosed)	177	0.93	165
64-OPEN OFFICE 4105 CORRIDOR (Common Space Types:Corridor/Transition <8 ft wide)	112	0.66	74
65-BREAK 4111 (Common Space Types:Lounge/Breakroom)	110	0.62	68
66-OPEN OFFICE 4105 (Common Space Types:Office - Open Plan)	1467	0.81	1188
67-CONSULT 4200A (Storage 288) (Common Space Types:Office - Enclosed)	38	0.93	35
68-CONFERENCE 4318 (Common Space Types:Conference/Meeting/Multipurpose)	303	1.07	324
69-MEETING 4303 (Common Space Types:Conference/Meeting/Multipurpose)	144	1.07	154

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
70-WAITING 4300 (Common Space Types:Lobby - General)	266	1.00	266
71-RECEPTION 4302 (Common Space Types:Office - Open Plan)	59	0.81	48
72-OPEN SPACE 4301 (Common Space Types:Corridor/Transition >=8 ft wide)	232	0.66	153
73-COURTROOM 4B (Courthouse/Police Station/Penitentiary:Courtroom)	1104	1.39	1535
		Total Allowed Watts =	13292

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
BREAK 4304 (Common Space Types: Lounge/Breakroom, 130 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	2	25	50
INTAKE 4310 (Common Space Types: Office - Enclosed, 95 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
INTAKE 4308 (Common Space Types: Office - Enclosed, 105 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
INTAKE 4309 (Common Space Types: Office - Enclosed, 104 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
DDP SUPERVISOR 4307 (Common Space Types: Office - Enclosed, 112 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
DOORWAYS 4311 (Common Space Types: Office - Enclosed, 155 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
COURT LIASON 4312 (Common Space Types: Office - Enclosed, 108 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
COURT DUTY OFFICER 4313 (Common Space Types: Office - Enclosed, 98 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	2	25	50
COURT DUTY OFFICER 4314 (Common Space Types: Office - Enclosed, 98 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	2	25	50
INTAKE SUPERVISOR 4306 (Common Space Types: Office - Enclosed, 176 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
TOILET 4315T (Common Space Types: Restrooms, 49 sq.ft.)				
LED: F3: DOWNLIGHT LED - RR RETROFIT: Other:	1	1	25	25
DDP (2) (Common Space Types: Office - Enclosed, 157 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
OPEN SPACE 4301 CORRIDOR (Common Space Types: Corridor/Transition <8 ft wide, 224 sq.ft.)				
LED: A3: 2'X2' LAY IN LED FIXTURE: Other:	1	5	20	101
LED: A3E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	2	20	40
TOILET 4205T (Common Space Types: Restrooms, 52 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	1	30	30
CLERK CORRIDOR 4A03 (Common Space Types: Corridor/Transition <8 ft wide, 71 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
DATA 4000A (Common Space Types: Computer Room, 27 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	1	25	25
COURTROOM 4A (Courthouse/Police Station/Penitentiary: Courtroom, 1093 sq.ft.)				
LED: B1E.6: 6FT LINEAR LED - ON EMERGENCY C: Other:	1	2	23	46
LED: B4: LINEAR LED - GRAZER: Other:	1	1	141	141
LED: B4: LINEAR LED - GRAZER: Other:	1	1	30	30
LED: B4: LINEAR LED - GRAZER: Other:	1	1	68	68

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: C: COVE LED: Other:	1	5	128	640
LED: C: COVE LED: Other:	1	2	120	240
LED: C: COVE LED: Other:	1	1	148	148
IT 4009 (Common Space Types: Computer Room, 82 sq.ft.)				
LED: A3: 2'X2' LAY IN LED FIXTURE: Other:	1	3	20	61
IT 4006 (Common Space Types: Computer Room, 57 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	2	25	50
PUBLIC CORRIDOR 4000S (Common Space Types: Corridor/Transition <8 ft wide, 520 sq.ft.)				
LED: F1: DOWNLIGHT LED: Other:	1	7	30	210
LED: F1E: DOWNLIGHT LED, ON EMERGENCY CIR: Other:	1	4	30	120
MEETING ROOM 4A01 (Common Space Types: Conference/Meeting/Multipurpose, 162 sq.ft.)				
LED: D: PENDANT LED: Other:	1	1	36	36
LED: F1: DOWNLIGHT LED: Other:	1	4	30	120
SPACE BETWEEN PUBLIC CORRIDOR 4000S AND CORRIDOR 4000W (Common Space Types: Corridor/Transition				
LED: B2.C: 6FTX6FT GROUPED RECTANGULAR PAT: Other:	1	1	92	92
CORRIDOR 4000E (Common Space Types: Corridor/Transition >=8 ft wide, 520 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
LED: A1E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	1	30	30
LED: F2: DOWNLIGHT LED - RETROFIT: Other:	1	6	30	180
LED: F2E: DOWNLIGHT LED - RETROFIT, ON E: Other:	1	2	30	60
LED: F4: DOWNLIGHT LED - SM RETROFIT: Other:	1	5	31	155
LED: F5: DOWNLIGHT LED - VW RETROFIT: Other:	1	2	33	66
CONSULT 4207 (Common Space Types: Office - Enclosed, 130 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	2	25	50
JUDGE'S CORRIDOR 4205 (Common Space Types: Corridor/Transition <8 ft wide, 1619 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	25	30	738
LED: A1E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	14	30	413
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	5	25	126
LED: A2E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	2	25	50
LED: F1: DOWNLIGHT LED: Other:	1	2	30	60
CORRIDOR 4000W (Common Space Types: Corridor/Transition >=8 ft wide, 470 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	1	30	30
LED: A1E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	1	30	30
LED: F2: DOWNLIGHT LED - RETROFIT: Other:	1	6	30	180
LED: F2E: DOWNLIGHT LED - RETROFIT, ON E: Other:	1	2	30	60
LED: F4: DOWNLIGHT LED - SM RETROFIT: Other:	1	2	31	62
LED: F5: DOWNLIGHT LED - VW RETROFIT: Other:	1	2	33	66
SPACE BETWEEN PUBLIC CORRIDOR 4000S AND CORRIDOR 4000E (Common Space Types: Corridor/Transition >=8				
LED: B2.C: 6FTX6FT GROUPED RECTANGULAR PAT: Other:	1	1	92	92
CONSULT 4206 (Common Space Types: Office - Enclosed, 67 sq.ft.)				
LED: B3: 4FT LINEAR LED - WITH WALL: Other:	1	1	22	22
LED: B3.6: 6FT LINEAR LED - WITH WALL: Other:	1	1	34	34
LED: B3.8: 8FT LINEAR LED - WITH WALL: Other:	1	1	45	45
MEN 4014 (Common Space Types: Restrooms, 219 sq.ft.)				
LED: F3: DOWNLIGHT LED - RR RETROFIT: Other:	1	2	25	50
LED: F3E: DOWNLIGHT LED - RR RETROFIT, O: Other:	1	1	25	25
LED: B4: LINEAR LED - GRAZER: Other:	1	1	30	30
LED: B4: LINEAR LED - GRAZER: Other:	1	1	38	38
HOLDING 4012 (Courthouse/Police Station/Penitentiary: Confinement Cell, 52 sq.ft.)				
LED: H1: VANDAL RESISTANT CORNER: Other:	1	1	75	75
HOLDING 4004 (Courthouse/Police Station/Penitentiary: Confinement Cell, 38 sq.ft.)				
LED: H1: VANDAL RESISTANT CORNER: Other:	1	1	75	75
INTAKE 4208 (Common Space Types: Office - Enclosed, 67 sq.ft.)				
LED: H2: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	1	29	29

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: H1: VANDAL RESISTANT CORNER: Other:	1	1	75	75
HOLDING 4003 (Courthouse/Police Station/Penitentiary: Confinement Cell, 39 sq.ft.)				
LED: H1: VANDAL RESISTANT CORNER: Other:	1	1	75	75
HOLDING 4013 (Courthouse/Police Station/Penitentiary: Confinement Cell, 62 sq.ft.)				
LED: H1: VANDAL RESISTANT CORNER: Other:	1	1	75	75
HOLDING 4011 (Courthouse/Police Station/Penitentiary: Confinement Cell, 51 sq.ft.)				
LED: H1: VANDAL RESISTANT CORNER: Other:	1	1	75	75
SECURE CORRIDOR 4210 (Common Space Types: Corridor/Transition <8 ft wide, 147 sq.ft.)				
LED: H2: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	1	29	29
LED: HE: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	2	29	58
SECURE CORRIDOR 4209 (Common Space Types: Corridor/Transition <8 ft wide, 134 sq.ft.)				
LED: H2: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	1	29	29
LED: HE: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	1	29	29
VIRTUAL INTAKE 4317 (Common Space Types: Office - Enclosed, 67 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	1	30	30
VIRTUAL INTAKE 4316 (Common Space Types: Office - Enclosed, 75 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	1	30	30
FINANCE 4112 (Common Space Types: Office - Enclosed, 78 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	2	25	50
LOBBY 4000 (Common Space Types: Lobby For Elevator, 369 sq.ft.)				
LED: G: COVE LED - REPLACEMENT: Other:	1	1	99	99
LED: GE: COVE LED - REPLACEMENT ON EMERG: Other:	1	1	99	99
SECURE CORRIDOR 4200 (Common Space Types: Corridor/Transition <8 ft wide, 111 sq.ft.)				
LED: H2: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	1	29	29
LED: HE: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	1	29	29
WOMEN 4001 (Common Space Types: Restrooms, 219 sq.ft.)				
LED: F3: DOWNLIGHT LED - RR RETROFIT: Other:	1	2	25	50
LED: F3E: DOWNLIGHT LED - RR RETROFIT, O: Other:	1	1	25	25
LED: B4: LINEAR LED - GRAZER: Other:	1	1	27	27
LED: B4: LINEAR LED - GRAZER: Other:	1	1	23	23
LED: B4: LINEAR LED - GRAZER: Other:	1	1	57	57
CONSULT 4204 (Common Space Types: Office - Enclosed, 227 sq.ft.)				
LED: B3: 4FT LINEAR LED - WITH WALL: Other:	1	1	22	22
LED: B3.6: 6FT LINEAR LED - WITH WALL: Other:	1	1	34	34
LED: B3.8: 8FT LINEAR LED - WITH WALL: Other:	1	1	45	45
STORAGE 4202 (Common Space Types: Storage >=50 - <=1000 sq.ft., 52 sq.ft.)				
LED: A3: 2'X2' LAY IN LED FIXTURE: Other:	1	2	20	40
SECURE CORRIDOR 4002 (Common Space Types: Corridor/Transition <8 ft wide, 97 sq.ft.)				
LED: HE: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	1	29	29
LED: H2: VANDAL RESISTANT SURFACE MOUNTE: Other:	1	1	29	29
CLERK 4203 (Common Space Types: Office - Enclosed, 103 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
WAITING 4008 (Common Space Types: Lobby - General, 275 sq.ft.)				
LED: B2.B: 8FTX10FT GROUPED RECTANGULAR PA: Other:	1	1	137	137
LED: J1: FLAT DOWNLIGHT: Other:	1	1	8	8
LED: K: DOWNLIGHT WALL WASHER: Other:	1	1	26	26
INTAKE 4201 (Common Space Types: Office - Enclosed, 156 sq.ft.)				
LED: A3: 2'X2' LAY IN LED FIXTURE: Other:	1	2	20	40
QUEING/WAITING 4100 (Common Space Types: Lobby - General, 240 sq.ft.)				
LED: B1.8: REPRESENTED AS 2 GROUPED 4FT FI: Other:	1	2	30	61
LED: B2.A: 6FTX8FT GROUPED RECTANGULAR PAT: Other:	1	1	106	106

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
WAITING 4007 (Common Space Types: Lobby - General, 285 sq.ft.)				
LED: B2.B: 8FTX10FT GROUPED RECTANGULAR PA: Other:	1	1	137	137
LED: J1: FLAT DOWNLIGHT: Other:	1	1	8	8
LED: K: DOWNLIGHT WALL WASHER: Other:	1	1	26	26
MEETING ROOM 4B01 (Common Space Types: Conference/Meeting/Multipurpose, 151 sq.ft.)				
LED: D: PENDANT LED: Other:	1	1	36	36
LED: F1: DOWNLIGHT LED: Other:	1	4	30	120
FILE VIEW 4101 (Common Space Types: Storage >=50 - <=1000 sq.ft., 119 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
TOILET 4102T (Common Space Types: Restrooms, 48 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	1	25	25
ADS 4104 (Common Space Types: Office - Open Plan, 91 sq.ft.)				
LED: A3: 2'X2' LAY IN LED FIXTURE: Other:	1	2	20	40
TELECOM 4103A (Common Space Types: Electrical/Mechanical, 67 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	2	25	50
HIGH DENSITY STORAGE 4103 (Common Space Types: Storage >=50 - <=1000 sq.ft., 287 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	5	25	126
STORAGE 4106 (Common Space Types: Storage >=50 - <=1000 sq.ft., 81 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
RECORDS ROOM 4108 (Common Space Types: Storage >=50 - <=1000 sq.ft., 105 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
STORAGE 4107 (Common Space Types: Storage >=50 - <=1000 sq.ft., 90 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
DEPUTY CLARK 4110 (Common Space Types: Office - Enclosed, 156 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
CHIEF CLARK 4109 (Common Space Types: Office - Enclosed, 177 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
OPEN OFFICE 4105 CORRIDOR (Common Space Types: Corridor/Transition <8 ft wide, 112 sq.ft.)				
LED: A3: 2'X2' LAY IN LED FIXTURE: Other:	1	2	20	40
LED: A3E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	1	20	20
BREAK 4111 (Common Space Types: Lounge/Breakroom, 110 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	2	30	59
OPEN OFFICE 4105 (Common Space Types: Office - Open Plan, 1467 sq.ft.)				
LED: A1E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	1	30	30
LED: A3: 2'X2' LAY IN LED FIXTURE: Other:	1	5	20	101
LED: A3E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	2	20	40
LED: B1.8: REPRESENTED AS 2 GROUPED 4FT FI: Other:	1	3	30	91
LED: B1.16: REPRESENTED AS 4 GROUPED 4FT FI: Other:	1	3	61	182
LED: B1.20: REPRESENTED AS 5 GROUPED 4FT FI: Other:	1	1	76	76
CONSULT 4200A (Storage 288) (Common Space Types: Office - Enclosed, 38 sq.ft.)				
LED: A2: 2'X2' LAY IN LED FIXTURE: Other:	1	2	25	50
CONFERENCE 4318 (Common Space Types: Conference/Meeting/Multipurpose, 303 sq.ft.)				
LED: B1.8: REPRESENTED AS 2 GROUPED 4FT FI: Other:	1	3	30	91
MEETING 4303 (Common Space Types: Conference/Meeting/Multipurpose, 144 sq.ft.)				
LED: D: PENDANT LED: Other:	1	2	36	72
WAITING 4300 (Common Space Types: Lobby - General, 266 sq.ft.)				
LED: B1.8: REPRESENTED AS 2 GROUPED 4FT FI: Other:	1	3	30	91
RECEPTION 4302 (Common Space Types: Office - Open Plan, 59 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	1	30	30
OPEN SPACE 4301 (Common Space Types: Corridor/Transition >=8 ft wide, 232 sq.ft.)				
LED: A1: 2'X2' LAY IN LED FIXTURE: Other:	1	1	30	30
LED: A1E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	1	30	30

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: A3: 2'X2' LAY IN LED FIXTURE: Other:	1	1	20	20
LED: A3E: 2'X2' LAY IN LED FIXTURE, ON EM: Other:	1	1	20	20
COURTROOM 4B (Courthouse/Police Station/Penitentiary: Courtroom, 1104 sq.ft.)				
LED: B1E.6: 6FT LINEAR LED - ON EMERGENCY C: Other:	1	2	23	46
LED: B4: LINEAR LED - GRAZER: Other:	1	1	72	72
LED: B4: LINEAR LED - GRAZER: Other:	1	1	34	34
LED: B4: LINEAR LED - GRAZER: Other:	1	1	125	125
LED: C: COVE LED: Other:	1	6	132	792
LED: C: COVE LED: Other:	1	2	120	240
		Total Proposed Watts =		10796

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jean-Marc Rwamakuba — Name - Title
Signature
12/13/2023 — Date

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Cost Estimator
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Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
WALTER J. GRIFFIN
Lic. No. 040206629PE
12-13-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
07/14/2023	CONSTRUCTION DOCUMENTS	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1
12/12/2023	PERMIT REVISION	2

DRAWN: JSR
CHECKED: WJG
SCALE: AS INDICATED
SHEET TITLE: **LIGHTING COMCHECK**

SHEET # **E707**

GENERAL NOTES

1. SCOPE: FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES AND SKILLED SUPERVISION NECESSARY TO PROVIDE, INSTALL, TEST AND ADJUST AND PLUMBING SYSTEMS COMPLETE, OPERATIONAL, AND READY FOR USE, AS INDICATED IN THESE DRAWINGS AND SPECIFICATIONS.
2. PERMITS, LICENSES & FEES: PAY ALL REQUIRED FEES AND OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR LEGAL REMOVAL AND INSTALLATION OF THE WORK.
3. APPLICABLE CODES AND STANDARDS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS AND ANY REGULATIONS EFFECTIVE IN THE PROJECT JURISDICTION. ALL CODE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR RESOLUTION. APPLICABLE CODES AND STANDARDS ON THIS PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

   A. VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC) 2018
   B. NFPA 70, NATIONAL ELECTRIC CODE (NEC) 2017
   C. NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS 2019
   D. INTERNATIONAL BUILDING CODE (IBC) 2018
   E. INTERNATIONAL FIRE CODE 2018
   F. LOCAL JURISDICTIONAL AMENDMENTS

4. DRAWING ACCURACY: LOCATIONS AND SIZES OF EQUIPMENT, PIPING, DUCTWORK, OUTLETS, FIXTURES, AND DEVICES SHOWN ON DRAWINGS ARE APPROXIMATE. DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO BE SCALED. WHEN INDICATED, ALL WORK SHALL BE PHYSICALLY LOCATED IN ACCORDANCE WITH ANNOTATED DIMENSIONS ON ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS.
5. COORDINATION: CONTRACTOR SHALL COORDINATE AND SEQUENCE THE WORK OF ALL DIVISIONS AND TRADES PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK AND RACEWAYS. COORDINATE THE LOCATION OF ALL NEW EQUIPMENT, DUCTWORK, AND DEVICES WITH NEW STRUCTURE AND EQUIPMENT BEFORE FABRICATION. MAKE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COORDINATED INSTALLATION.
6. COORDINATED SHOP DRAWINGS: THE CONTRACTOR SHALL PROVIDE COORDINATED INSTALLATION SHOP DRAWINGS, INCLUDING SECTIONS AND ELEVATIONS, WITH MINIMUM SCALE OF 1/8"=1'-0", FOR ALL MECHANICAL ROOMS, ELECTRICAL ROOMS AND CLOSETS, COMMUNICATIONS ROOMS AND CLOSETS, PIPING AND DUCT SHAFTS, AND OTHER CEILING SPACES, WALLS, RAISED FLOORS, OR CHASES WHERE THE WORK OF DIFFERENT TRADES ARE IN CLOSE PROXIMITY OR SPACE CONDITIONS ARE LIMITED. DRAWINGS SHALL SHOW DUCTWORK, PLUMBING PIPING, SPRINKLER PIPING, CABLE TRAYS, PULL BOXES, CONDUITS, LIGHT FIXTURES, SUSPENDED CEILINGS, AND STRUCTURAL ELEMENTS WITHIN THE SPACE DESIGNATED FOR MECHANICAL AND ELECTRICAL WORK. SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO STARTING INSTALLATION IN ACCORDANCE WITH DIVISION 1 OF THE SPECIFICATIONS. SHOP DRAWINGS SHALL BE APPROVED PRIOR TO STARTING INSTALLATION.
7. MATERIALS: MANUFACTURERS AND CATALOG NUMBERS ARE USED HERE STRICTLY AS A BASIS OF DESIGN REFERENCE. THEY REPRESENT THE TYPE, SIZE, CONSTRUCTION, PERFORMANCE, AND LEVEL OF QUALITY DESIRED. EQUIPMENT FROM OTHER MANUFACTURERS THAT MATCH OR SURPASS THE CHARACTERISTICS OF THOSE REFERENCED WILL BE ACCEPTABLE SUBJECT TO APPROVAL BY THE DESIGN TEAM AND COR REPRESENTATIVE.
8. SUBMITTALS AND SUBSTITUTIONS: CONTRACTOR SHALL PROVIDE PRODUCT INFORMATION, SHOP DRAWINGS, DOCUMENTS AND WARRANTIES FOR MATERIALS AND SERVICES TO THE COR FOR APPROVAL. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PERMISSION OF THE COR'S REPRESENTATIVE IN WRITING. SUBSTITUTE MATERIAL SHALL BE COMPATIBLE WITH OTHER COMPONENTS OF THE SYSTEM.
9. INSTALLATION OF NEW WORK: INSTALLATION OF EQUIPMENT, PIPING, FIXTURES, ETC. SHALL BE DONE IN NEAT AND WORKMANLIKE MANNER, AND SHALL CONFORM TO THE LATEST TRADE PRACTICES. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY EXACT LOCATION OF EQUIPMENT, FIXTURES, ETC.
10. DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF THE CONTRACT. DESIGN DRAWINGS ARE NOT TO BE CONSIDERED AS SUBSTITUTION TO SHOP DRAWINGS. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW TO COMPLETE THE INTENT OF THE CONTRACT. THE RIGHT IS RESERVED BY THE ENGINEER TO MAKE MINOR CHANGES IN LOCATIONS AND ARRANGEMENTS WHEN REQUIRED BY JOB DEVELOPMENT WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR.
11. MOUNTING HEIGHTS: COORDINATE MOUNTING HEIGHTS OF DEVICES ON FINISHED WALLS TO PROVIDE A NEAT AND SYMMETRICAL APPEARANCE. SEE ARCHITECTURAL PLANS, ELEVATIONS AND DETAILS FOR HEIGHTS AND LOCATIONS OF EQUIPMENT. DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO CENTERLINE OF EQUIPMENT.
12. WARNING SIGNS: PROVIDE SIGNS, BARRICADES, GUARDS, AND PROTECTION FOR SAFETY DURING CONSTRUCTION. WORK AREA SHALL BE KEPT CLEAN, CLEAR OF OBSTRUCTIONS, WELL ILLUMINATED, AND UNDER ORGANIZED MATERIAL STORAGE, IN ACCORDANCE WITH OSHA REQUIREMENTS.
13. FIRE STOPPING: REFER TO ARCHITECTURAL PLANS FOR DETAILS AND REQUIREMENTS FOR CONDUIT AND PIPING PENETRATIONS THROUGH RATED WALLS, FLOORS AND CEILINGS.
14. REPAIR: ALL WORK SHALL BE DONE IN SUCH A MANNER TO MINIMIZE DAMAGE TO ADJACENT EQUIPMENT, PIPING, DUCTWORK, WIRING, FIXTURES, CONSTRUCTION, FINISHES AND STRUCTURE. ANY DAMAGE RESULTING FROM WORK UNDER THIS PROJECT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE COR AT NO ADDITIONAL COST.
15. CLEANING & MATERIAL DISPOSITION: CLEAR ALL DEBRIS FROM THE AREA OF WORK AND LEAVE SITE IN CLEAN CONDITION. CLEAN ALL EQUIPMENT ENCLOSURES, INSIDE AND OUTSIDE. ALL MATERIAL AND EQUIPMENT AND DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.
16. CUTTING & PATCHING: PERFORM CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF THIS WORK. SEAL UNUSED PENETRATIONS RESULTING FROM DEMOLITION FOR THIS WORK. RESTORE SURFACES TO ADJACENT FINISH AND CONDITION.
17. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR BURNED UNLESS PREVIOUSLY APPROVED BY THE PROJECT ARCHITECT. CONTRACTOR SHALL NOT CUT OR PATCH STRUCTURAL MEMBERS IN A MANNER THAT WOULD RESULT IN A REDUCTION OF LOAD-CARRYING OR LOAD-DEFLECTION RATIO.
18. PROVIDE DIELECTRIC PIPING UNIONS BETWEEN DISSIMILAR METALS.
19. RUN ALL EXPOSED ELEMENTS NEATLY, TIGHT TO THE STRUCTURE, PARALLEL TO WALLS, AND AS INCONSPICUOUSLY AS POSSIBLE. PIPING SHALL NOT COME INTO DIRECT CONTACT WITH CONCRETE OR STRUCTURE IN ANY LOCATION.
20. CONTRACTOR IS PROHIBITED FROM USING LEAD-BASED SOLDER.

GENERAL NOTES

21. ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH ESCUTCHEONS AT PENETRATION. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE INSTALLED WITH FIRE RATED SEALS AS REQUIRED BY ARCHITECT AND AUTHORITY HAVING JURISDICTION.
22. PROVIDE PIPE SLEEVES FOR ALL PENETRATIONS IN CONCRETE AND MASONRY WALLS, AND FLOORS/SLABS. REFER TO DRAWINGS FOR APPROXIMATE LOCATIONS OF MAJOR PENETRATIONS (E.G. MAINS, RISERS, ETC). CONTRACTOR SHALL BE RESPONSIBLE FOR CAREFULLY COORDINATING LOCATIONS OF ALL PENETRATIONS IN MASONRY AND CONCRETE WALLS/FLOORS/CEILING SLABS WITH STRUCTURAL AND OTHER TRADES.
23. PROVIDE ACCESS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRE PERIODIC SERVICE.
24. VALVES AND PIPING ACCESSORIES SHALL BE IN LINE SIZE AND INSTALLED WHERE INDICATED ON DRAWINGS. VALVES SHALL BE INSTALLED WITH STEM UP. VALVES SHALL BE PERMANENTLY ACCESSIBLE. PROVIDE PULL CHAIN FOR ALL VALVES LOCATED HIGHER THAN 10'.
25. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
26. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIXTURES AND EQUIPMENT.
27. ALL COMPONENTS SHALL BE RESTRAINED FOR SEISMIC DESIGN CATEGORY D IN ACCORDANCE WITH ASCE 7-2010
28. PROVIDE A NEW FIRE SPRINKLER AND STANDPIPE SYSTEMS AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. INSTALLATION OF SPRINKLER SYSTEM SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING COMPONENTS: SPRINKLERS, PIPE, FITTINGS, HANGERS, CONTROL VALVES, DRY PIPE VALVES, COMPRESSORS, CHECK VALVES, TAMPER SWITCHES, WATER FLOW SWITCHES, FIRE DEPARTMENT CONNECTIONS, BACKFLOW PREVENTERS, HOSE VALVES, AND ALL OTHER NECESSARY COMPONENTS FOR A COMPLETE SPRINKLER SYSTEM INSTALLATION AS OUTLINED IN THE DRAWINGS AND SPECIFICATIONS.
29. PROVIDE A FLOW TEST TO VERIFY THE EXISTING WATER SUPPLY. ALL SYSTEM PIPE SIZES (EXCEPT RISERS AND FLOOR CONTROL VALVE ASSEMBLIES) SHALL BE DETERMINED UTILIZING HYDRAULIC CALCULATIONS BASED ON CURRENT TEST RESULTS.
30. THE SPRINKLER SYSTEM LAYOUT AS INDICATED ON THE DRAWINGS IS CONCEPTUAL IN NATURE. THE LOCATION, QUANTITY AND SIZE OF PIPES AND SPRINKLERS SHALL BE, BUT NOT LIMITED TO THE LAYOUT AS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SPRINKLERS AS NECESSARY TO COMPLY WITH NFPA 13 CRITERIA. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE IMPACT OF THE SPRINKLER SYSTEM LAYOUT AS A RESULT OF ANY AREA/ROOM DESIGNATION OR CONFIGURATION CHANGES ONCE THE SPRINKLER CONTRACT HAS BEEN AWARDED (NO SPRINKLER SYSTEM LAYOUT REVISIONS WILL BE ISSUED BY THE ARCHITECT/ENGINEER).
31. ALL SPRINKLER PIPING SHALL BE CONCEALED, UON. EXPOSED PIPING IN FINISHED AREAS SHALL PER PAINTED TO MATCH SURROUNDINGS. COORDINATE WITH ARCHITECT FOR PAINT COLOR.
32. ONLY QUICK RESPONSE SPRINKLERS SHALL BE USED THROUGHOUT THE PROJECT, UNLESS WHERE PERMITTED BY NFPA 13.
33. ALL SPRINKLER PIPING SHALL BE SCHEDULE 40 OR 10 BLACK STEEL.
34. ALL HOSE VALVES AND FIRE DEPARTMENT CONNECTIONS PROVIDED SHALL MATCH COUNTY OF MAUI STANDARDS.
35. SPRINKLERS INSTALLED DIRECTLY ADJACENT TO AIR DIFFUSERS OR OTHER ROOMS/AREAS SUBJECT TO HIGH TEMPERATURES SHALL BE INTERMEDIATE OR HIGH TEMPERATURE RATED.
36. INSTALL ALL CEILING DEVICES IN 2'X2' ACOUSTICAL PANEL CEILINGS IN THE CENTER OF THE PANELS; AND IN 2'X4' PANELS, INSTALL DEVICE IN THE CENTER OF THE 2'X4' OR 2'X2' SQUARE AREAS.
37. CONTRACTOR SHALL PROVIDE AUXILIARY LOW POINT AND DRUM DRIP DRAINS WHERE REQUIRED PER NFPA 13. WHERE AUXILIARY DRAINS ARE INSTALLED BEHIND HARD CEILINGS, ACCESS PANEL SHALL BE PROVIDED DIRECTLY BENEATH THE DRAIN.
38. ALL AUXILIARY DRAIN INSTALLED IN CAPACITY GREATER THAN 5 GALLONS SHALL BE INSTALLED WITH DRAIN VALVE, HOSE BIB, AND CAP.
39. ALL SPRINKLER MAIN PIPE SIZES SHOWN ARE FOR DESIGN PURPOSES ONLY. SPRINKLER MAIN SIZES TO BE INCREASED/DECREASED BASED OFF OF HYDRAULIC CALCULATIONS, NFPA 13 AND NFPA 14 REQUIREMENTS.

GENERAL SYMBOLS

1	NEW WORK KEYNOTE
1	DEMOLITION KEYNOTE
1 / XXX	SECTION VIEW. NUMBER DENOTES SECTION NUMBER AND X DENOTES DRAWING NUMBER
D / M–X / A–X	CALLOUT. "D" INDICATES VIEW NUMBER M-X INDICATES DRAWING NUMBER A-X INDICATES LOCATION WHERE DETAIL IS LOCATED
	CONNECTION POINT NEW TO EXISTING
	END OF DEMOLITION

NOTE: ALL ABBREVIATIONS AND SYMBOLS MAY NOT BE USED.

SYMBOLS

SYMBOL	DESCRIPTION
	NEW SPRINKLER PIPE
	PIPE TURNED UP
	PIPE TURN DOWN
	SPRINKLER PIPE CAP
	UPRIGHT SPRINKLER
	PENDANT SPRINKLER
	SIDEWALL SPRINKLER
	DRY PENDANT SPRINKLER
	DRY SITEWALL SPRINKLER
	DRY PIPE VALVE
	FIRE DEPARTMENT CONECTION
A	ALARM CHECK VALVE
	ZONE CONTROL ASSEMBLY (CHECK VALVE, CONTROL VALVE WITH TAMPER, FLOW SWITCH INSPECTOR'S TEST/DRAIN ASSEMBLY AND WATER FLOW SWITCH)
	CHECK VALVE
	OS & Y VALVE
	ALARM VALVE
OH-1 OH-2 EH-1	HAZARD CLASSIFICATION TAG ALL LIGHT HAZARD UON 'OH' DENOTES ORDINARY HAZARD (GROUP 1 OR 2) 'EH' DENOTES EXTRA HAZARD GROUP 2
	UPRIGHT SPRINKLER
	PENDANT SPRINKLER HEAD
S	RECESSED SPRINKLER HEAD, PENAL TYPE
	RECESSED CONCEALED SPRINKLER HEAD, PENAL TYPE
	SEMI-RECESSED SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
TS	TAMPER SWITCH
FS	FLOW SWITCH

ABBREVIATIONS

ADJ	ADJACENT / ADJOINING / ADJUSTABLE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALM	ALARM
ALT	ALTERNATE
AP	ACCESS PANEL
APPD	APPROVED
BFP	BACKFLOW PREVENTOR
BOT	BOTTOM
BSMT	BASEMENT
°C	DEGREES CENTIGRADE
CAP	CAPACITY
CD	CONSTRUCTION / CONTRACT DOCUMENTS
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
DEG	DEGREE
DIA	DIAMETER
DIR	DIRECTION
DISC	DISCONNECT
DISCH	DISCHARGE
DN	DOWN
DWG	DRAWING
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC
EMER	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ETR	EXISTING TO REMAIN
EXCH	EXCHANGE
EXT	EXTERNAL

ABBREVIATIONS

°F	DEGREES FAHRENHEIT
FEC	FIRE EXTINGUISHER CABINET
FDC	FIRE DEPARTMENT CONNECTION
FLSW	FLOW SWITCH
FLEX	FLEXIBLE
FM	FLOW METER
FP	FIRE PROTECTION
GC	GENERAL CONTRACTOR
GEN	GENERAL
H	HEIGHT
HD	HEAD
HORIZ	HORIZONTAL
HT	HEIGHT
IN	INCHES
INCL	INCLUDED
INFO	INFORMATION
INSUL	INSULATION
k	KILO
L	LENGTH
LIN	LINEAR
LVG	LEAVING
M	METERS
MAN	MANUAL
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETERS
MOD	MODIFY
NA	NOT APPLICABLE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
ORIG	ORIGINAL
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
POS	POSITIVE / POSITION
PRELIM	PRELIMINARY
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
QA	QUALITY ASSURANCE
QC	QUALITY
QTY	QUANTITY
R	RADIUS / RISER
REF	REFERENCE
REC	RECOMMEND
REG	REGISTER
REQD	REQUIRED
REV	REVISION
SCHED	SCHEDULE
SEC	SECTION
SF	SAFETY FACTOR / SQUARE FEET
SPEC	SPECIFICATION
STD	STANDARD
SYM	SYMBOL
SYS	SYSTEM
TFF	TOP OF FINISH FLOOR
TYP	TYPICAL
UGND	UNDERGROUND
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE / WIDTH
W/	WITH
W/O	WITHOUT
WPD	WATER PRESSURE DROP
WTR	WATER

NOTE: NOT ALL ABBREVIATIONS INDICATED ABOVE ARE USED ON THIS PROJECT.

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Structural
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46090 Lake Center Plaza, Suite 309
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Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
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SCALE: AS INDICATED

SHEET TITLE: GENERAL NOTES, SYMBOLS & ABBREVIATIONS

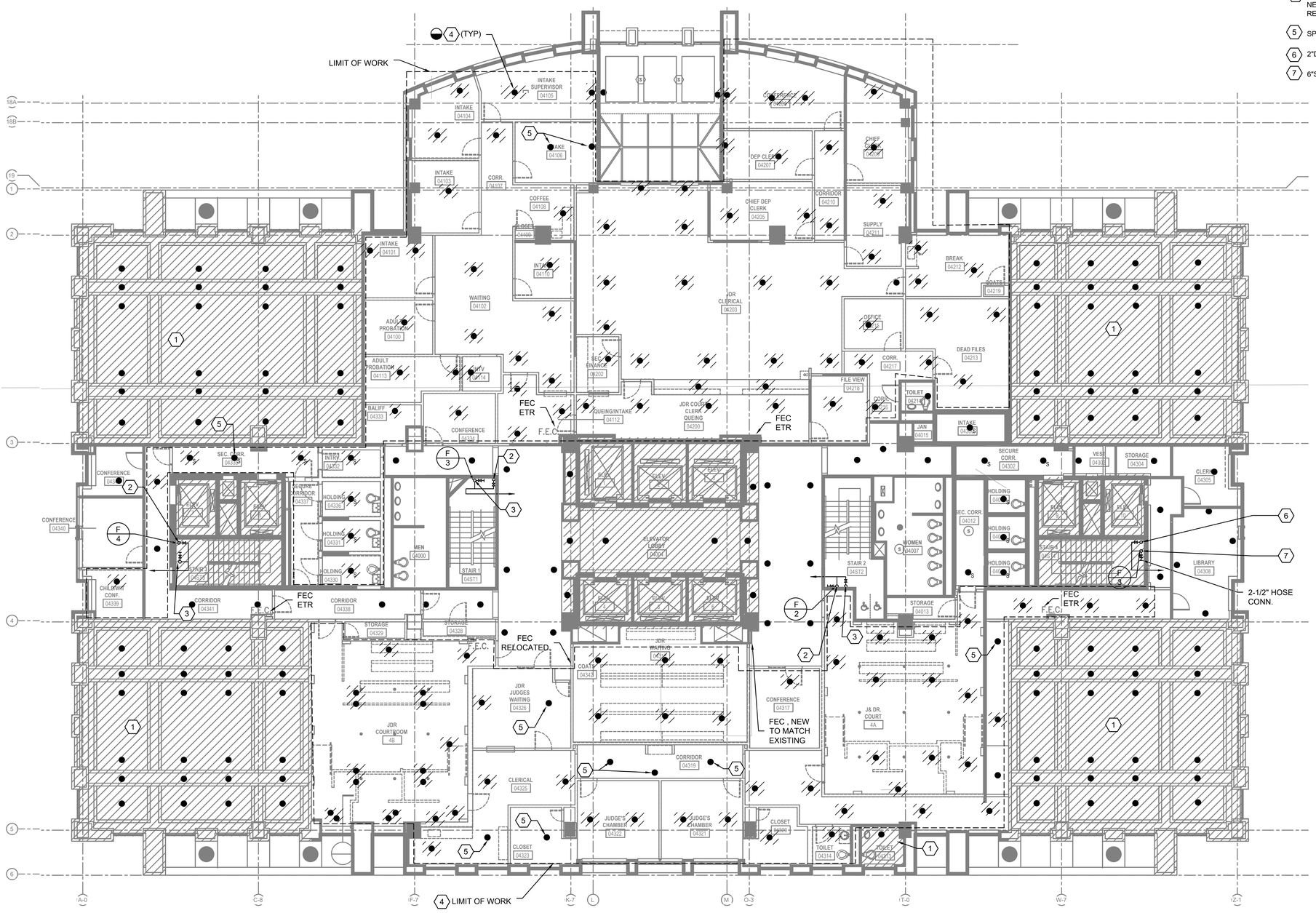
SHEET # **FP001**

GENERAL NOTES

1. ALL EQUIPMENT AND SYSTEMS SHOWN ARE EXISTING AND OPERATIONAL; AND, SHALL REMAIN SO UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CEILING GRID AND TILE REMOVAL REQUIREMENTS.
3. UNLESS OTHERWISE NOTED, SPRINKLER HEADS SHOWN ARE EXISTING HEADS TO REMAIN IN PLACE AND FUNCTIONAL.

DEMOLITION NOTES:

1. SPRINKLER HEADS AND DISTRIBUTION PIPING SERVING THIS ROOM ARE TO REMAIN.
2. EXISTING 6" STANDPIPE UP/DN, WITH 2/1/2" HOSE CONNECTION SHOWN FOR REFERENCE.
3. EXISTING 2" DRAINPIPE UP/DN LOCATION SHOWN FOR REFERENCE.
4. SPRINKLER HEAD TO BE REMOVED WITHIN LIMIT OF WORK TO COORDINATE WITH NEW LAYOUT, UNLESS OTHER WISE NOTED. EXISTING DISTRIBUTION PIPING TO REMAIN FOR REUSE.
5. SPRINKLER HEAD AND BRANCH TO REMAIN FOR REUSE.
6. 2"DRAIN PIPE UP.
7. 6"STAND PIPE UP.



1 FLOOR PLAN - LEVEL 4 DEMOLITION

Scale: 1/8"=1'-0

MTFA architecture

3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

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Structural
Linton Engineering
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571.323.0320

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443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

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SCALE: AS INDICATED

SHEET TITLE:
FLOOR PLAN - LEVEL 4 DEMOLITION

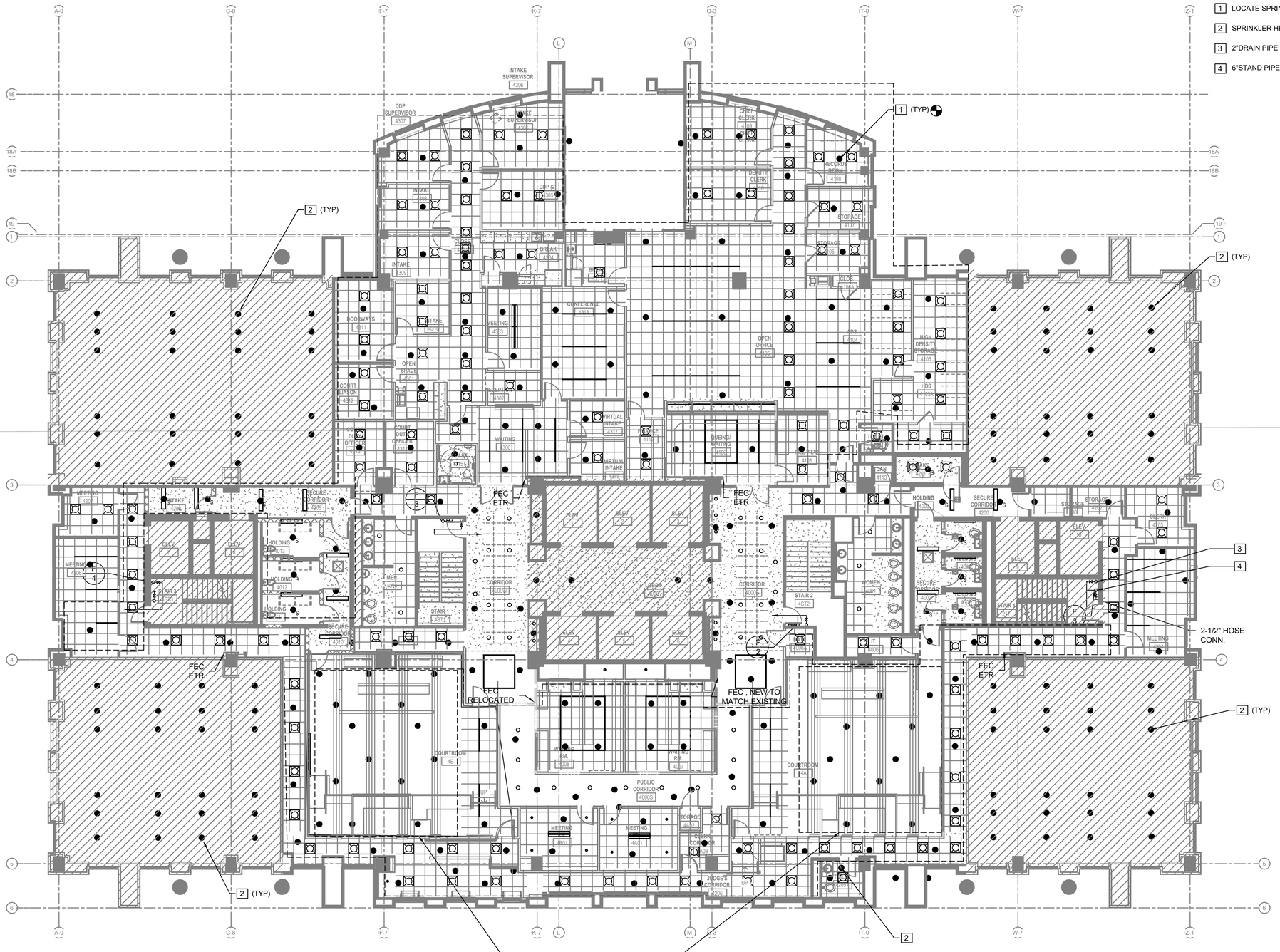
SHEET #
FP101

GENERAL NOTES

1. THE SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER HEADS AND PIPING AS REQUIRED TO PROVIDE FULL COVERAGE OF THIS SPACE IN STRICT ACCORDANCE WITH NFPA-13, AND ALL CITY, STATE, AND NATIONAL CODES AND STANDARDS.
2. SUBMIT SPRINKLER HEAD LAYOUT TO ARCHITECT/ENGINEER FOR APPROVAL.
3. RUN ALL PIPING CONCEALED ABOVE CEILING UNLESS OTHERWISE NOTED.
4. FOR SPRINKLER OCCUPANCY HAZARD CLASSIFICATIONS AND DENSITY FOR SPRINKLER DESIGN, SEE SPECIFICATIONS.
5. ALL AREAS OCCUPANCY HAZARD SHALL BE LIGHT HAZARD UNLESS OTHERWISE INDICATED.
6. SPRINKLER HEADS TO BE QUICK RESPONSE.

NEW WORK NOTES

1. LOCATE SPRINKLER HEAD IN CENTER OF RCP. EXTEND PIPING AS NECESSARY.
2. SPRINKLER HEADS IN THIS AREA TO REMAIN.
3. 2"DRAIN PIPE UP.
4. 6"STAND PIPE UP.



1 FLOOR PLAN - LEVEL 4 NEW WORK

Scale: 1/8"=1'-0

MTFA architecture
3200 Langston Boulevard Arlington, VA 22207
703-524-6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
8825 Stanford Blvd, Unit 210
Columbia, MD 21045
443.276.8300

Technology/AV/Security
Codetta, LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

COMMONWEALTH OF VIRGINIA
JOHN M. CHANEY, JR.
Lic. No. 20696
11-08-2023
PROFESSIONAL ENGINEER

PROJECT # 21085

DATE:	ISSUE:	
07/14/2023	CONSTRUCTION DOCUMENTS	
08/16/2023	PERMIT SET	
10/06/2023	PERMIT REVISION	1

DRAWN: MR CHECKED: JC

SCALE: AS INDICATED

SHEET TITLE: **FLOOR PLAN - LEVEL 4 NEW WORK**

SHEET # **FP102**

AUDIOVISUAL GENERAL NOTES

1. SCOPE
   A. AUDIOVISUAL SCOPE OF WORK SHALL INCLUDE:
      1. INSTALLATION AND TESTING OF ALL AUDIOVISUAL CABLING AND EQUIPMENT, INCLUDING BUT NOT LIMITED TO MONITORS, AUDIO COMPONENTS, MATRIX SWITCHES, DISTRIBUTION AMPLIFIERS, EQUALIZERS, CENTRAL CONTROLLERS, INTERFACES, EQUIPMENT RACKS, AND HARDWARE. ANY ITEMS NOT CALLED OUT THAT ARE NECESSARY FOR A COMPLETE AND FUNCTIONING AV SYSTEM PER DESIGN INTENT SHALL BE INCLUDED.
      2. AUDIOVISUAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR POWER AND CONDUIT REQUIREMENTS.
      3. AUDIOVISUAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR INSTALLATION OF WALL MOUNTED PLYWOOD FOR DEVICES AND MOUNTING OF DISPLAYS.
      4. AUDIOVISUAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS FOR MOUNTING OF MONITORS AND DISPLAYS.
      5. AUDIOVISUAL CONTRACTOR SHALL PROVIDE AND INSTALL J-HOOKS OR SIMILAR CABLE MANAGEMENT IN AREAS THAT HAVE TILE CEILINGS.
   B. GENERAL CONTRACTOR SCOPE OF WORK SHALL INCLUDE:
      1. INSTALLATION OF ALL CONDUITS WITH RING AND STRING, BACK BOXES, CONDUIT STUB-UPS, ~~GROUND BARS, GROUNDING EQUIPMENT, AND POWER FOR AUDIO~~VISUAL EQUIPMENT. COORDINATE WITH ELECTRICAL DRAWINGS.
      2. INSTALLATION OF FLOOR BOXES OR RACEWAY AS SHOWN ON DRAWINGS.
      3. ALL ELECTRICAL CONNECTIONS FOR AV EQUIPMENT SHALL BE ON THE SAME PHASE.

2. GENERAL CONDITIONS
   A. ALL AUDIOVISUAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ANSI/TIA-568C "COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD", TIA-569B "COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES", EIA/TIA - 606 "ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS", EIA/TIA - 607 "COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS", TIA/EIA 75 HORIZONTAL PATHWAYS, AND BICSI "TELECOMUNICATIONS DISTRIBUTION MANUAL".
   B. THE DRAWINGS, WHICH CONSTITUTE A PART OF THIS CONTRACT, INDICATE THE GENERAL ARRANGEMENT OF CABLING AND OUTLETS, LOCATIONS OF EQUIPMENT, AND OTHER WORK. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE NECESSARY FOR A COMPLETE AUDIOVISUAL SYSTEM SHALL BE INCLUDED AT NO ADDITIONAL COST.
   C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS TO BECOME FAMILIAR WITH ALL ASPECTS OF THESE DESIGNS AFFECTING THIS WORK. THE AUDIOVISUAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES AND IS REQUIRED TO ATTEND SCHEDULED WEEKLY MEETINGS.
   D. ALL AUDIOVISUAL MATERIALS SHALL BE NEW, DEFECTIVE EQUIPMENT OR EQUIPMENT THAT IS DAMAGED IN THE COURSE OF INSTALLATION OR TESTING SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE OWNER. WHERE APPLICABLE, ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA AND UL STANDARDS.
   E. ALL WORK SHALL BE SUBJECT TO APPROVAL OF THE OWNER OR THE OWNERS AUTHORIZED REPRESENTATIVE.
   F. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL SPACES SHALL BE LEFT CLEAN, SWEPT AND FREE OF ANY DEBRIS, SCRATCHES, OR MARKINGS.
   G. WHERE CABLING AND OR CONDUIT PASSES THROUGH FIRE RATED PARTITIONS OR SLABS, INSTALL FIRE STOP MATERIALS RATED TO MEET OR EXCEED THE RATING OF THE STRUCTURE PENETRATED. FIRESTOP MATERIALS SHALL HAVE BEEN TESTED PER UL 1479 AND ASTM E-814. FOR SLEEVES, INSTALL EITHER A MECHANICAL FIRE STOP, INTUMESCENT FIRE STOP PILLOWS OR A COMBINATION OF INTUMESCENT PUTTY AND MINERAL WOOL/CERAMIC FIBER. FOR SLOTS OR LARGER OPENINGS, INSTALL EITHER A MECHANICAL FIRE STOP OR A RATED ASSEMBLY SUITABLE FOR THE TYPE OF OPENING TO BE PROTECTED.
   H. PRIOR TO SUBMITTING BIDS, THE AUDIOVISUAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER REPRESENTATIVE IN ADVANCE OF BID DATE ANY DISCREPANCIES BETWEEN THE EXISTING BUILDING AND THE DRAWINGS.

3. PATHWAY REQUIREMENTS
   A. INSTALL AUDIOVISUAL CABLES IN WALLS USING CONDUIT STUB UPS AS SHOWN ON DRAWINGS.
   B. INSTALL AUDIOVISUAL CABLES IN CEILING USING CONDUITS AND/OR J-HOOKS AS SHOWN ON DRAWINGS.
   C. ROUTE ALL CABLES INSIDE FURNITURE USING ACCESS AREAS PROVIDED BY THE MANUFACTURER. COORDINATE WITH FURNITURE INSTALLER.
   D. OBTAIN WRITTEN PERMISSION FROM STRUCTURAL ENGINEER PRIOR TO PENETRATING SLABS OR LOAD BEARING WALLS.

4. INSTALLATION PRACTICES
   A. MANUFACTURER AND TIA 568B RECOMMENDATIONS FOR CABLING BEND RADIUS SHALL BE FOLLOWED AT ALL TIMES.
   B. DO NOT EXCEED THE MAXIMUM PULLING TENSION SPECIFIED FOR COPPER CABLE BY ITS MANUFACTURER.
   C. ALL TIE WRAPS SHALL BE PLENUM RATED VELCRO WRAPS. PLASTIC TIE WRAPS ARE NOT PERMITTED.
   D. TIE WRAPS SHALL NOT INCREASE THE TENSION OF THE CABLE OR OF ANY INDIVIDUAL PAIRS WITHIN A CABLE. ANY TIE WRAPS CINCHED SO TIGHTLY AS TO CAUSE AN INDENTATION OR DECREASE IN CABLE DIAMETER SHALL BE REMOVED. ALL TIE WRAPS SHALL BE LOOSE ENOUGH TO MOVE OR SLIDE WITHOUT MOVING THE CABLE. EACH TIE WRAP SHALL HAVE 1/4 - 1/2 INCH SLACK, SO AS TO ALLOW A FINGER TO PASS UNDER IT. AMOUNT OF THE TIE WRAPS USED SHALL BE MINIMIZED AND PLACED WITH VARYING SPACING. EVENLY SPACED TIE WRAPS CAN REDUCE CABLE PLANT PERFORMANCE.
   E. MAINTAIN THE SHEATH OF EACH INDIVIDUAL CABLE UP TO THE POINT OF TERMINATION BY REMOVING ONLY AS MUCH CABLE SHEATH AS IS NECESSARY AND PRACTICAL TO TERMINATE THE CABLES.
   F. ALL AUDIOVISUAL CABLING INSTALLED IN CEILINGS SHALL BE PLENUM RATED.
   G. SUPPORT CABLE OFF THE FLOOR UNTIL TERMINATION. CABLING THAT HAS BEEN WALKED ON SHALL BE REPLACED.

5. CABLES
   A. SUPPORT ALL AV CABLES ON J-HOOKS OR ROUTE IN CONDUIT AS SHOWN ON THE DRAWINGS.
   B. AUDIOVISUAL CONTRACTOR SHALL PROVIDE ADEQUATE LENGTH OF CABLING AT EQUIPMENT LOCATIONS TO FACILITATE MOVEMENT OF EQUIPMENT FOR MAINTENANCE WITHOUT REMOVING CABLES.
   C. IN CONFERENCE AREAS, AUDIOVISUAL CONTRACTOR SHALL PROVIDE AND INSTALL CONNECTORS AND CABLES TO FLOOR BOXES, OUTLETS, AND POKE-THRUS AS SHOWN ON DRAWINGS. PROVIDE INSERTS AND COORDINATE WITH TELECOM INSTALLER.
   D. COORDINATE ALL CABLE JACKET COLORS WITH OWNER AND OTHER TRADES.

6. CONDUIT
   A. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL METALLIC CONDUIT ON FLOORS AS SHOWN ON DRAWINGS.
   B. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL PULL BOXES AS SHOWN ON DRAWINGS.
   D. COORDINATE WITH THE INSTALLATION OF ELECTRICAL AND MECHANICAL CONDUITS AND HVAC DUCTWORK SHARING THE SAME CEILING AREA.
   E. REMOVE ALL SHARP EDGES AND BURRS FROM END OF CONDUITS AND FIT WITH BUSHINGS.

7. GROUNDING
   A. THE AUDIOVISUAL CONTRACTOR SHALL GROUND ALL EQUIPMENT RACKS TO ELECTRICAL CONTRACTOR SUPPLIED GROUND BUSS BAR.
   B. ALL GROUND WIRES IN CABLES SHALL BE TERMINATED IN CONNECTORS PER ACCEPTED PRACTICES. UNDER NO CIRCUMSTANCES SHALL DRAIN WIRES BE CUT. ANY DIFFICULTIES DUE TO GROUND POTENTIAL DIFFERENCES ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER.

8. SYSTEM AND PROGRAMMING
   A. THE AUDIOVISUAL CONTRACTOR SHALL PROVIDE COMPLETE SYSTEM PROGRAMMING FOR THE CONTROLLERS AND ALL DEVICES INSTALLED. PROGRAMMING SHALL BE ACCOMPLISHED IN COORDINATION WITH TENANTS. PROJECT SHALL NOT BE DEEMED COMPLETE AND ACCEPTED WITHOUT TENANT APPROVAL OF THE PROGRAMMING AND INTERFACES.
   B. THE AV CONTRACTOR SHALL PROVIDE ALL PROGRAMMING SOURCE CODE TO THE OWNER UPON COMPLETION OF THE PROJECTION.
   C. THE AV CONTRACTOR SHALL CREATE AND PROVIDE A MINIMUM OF FIVE (5) HARDCOPIES AND FIVE ELECTRONIC CD-ROM COPIES OF USER MANUALS DESCRIBING THE OPERATION OF EACH TYPE OF SYSTEM.
   D. THE AV CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) HARDCOPIES OF USER MANUALS FOR EACH COMPONENT USED IN EACH TYPE OF SYSTEM.
   E. THE AV CONTRACTOR SHALL PROVIDE TRAINING FOR AT LEAST FIVE REPRESENTATIVES OF THE OWNER FOR EACH TYPE OF SYSTEM. TRAINING SHALL BE A MINIMUM OF FOUR (4) HOURS PER PERSON.
   F. OWNER WILL REQUIRE A FULL-FUNCTIONAL COMMISSIONING TEST DEMONSTRATING THE OPERATION OF ALL DEVICES PRIOR TO SYSTEM ACCEPTANCE.
   G. ALL LCD PROJECTORS SHALL HAVE A SCHEDULED SHUT OFF PROGRAMMED TO PRESERVE LAMP LIFE. COORDINATE WITH TENANT FOR SHUT OFF SCHEDULE.

9. SITE VISIT
   A. PRIOR TO SUBMITTING BIDS, THE AUDIOVISUAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELF WITH ALL EXISTING CONDITIONS. THE AUDIOVISUAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR THE ENGINEER IN ADVANCE OF ANY CONDITION THAT EXISTS THAT WOULD PREVENT THE WORK HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS FROM BEING PERFORMED. SITE VISIT IS MANDATORY PRIOR TO BID. FAILURE TO VISIT THE SITE PRIOR TO BID WILL DISQUALIFY THE CONTRACTOR.

10. GUARANTEE
   A. THE AUDIOVISUAL CONTRACTOR SHALL LEAVE THE ENTIRE AUDIOVISUAL SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. BENEFICIAL USE SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE.
   B. THE AUDIOVISUAL CONTRACTOR SHALL, DURING THE ONE YEAR GUARANTEE PERIOD, BE RESPONSIBLE FOR THE PROPER REPAIR AND ADJUSTMENTS OF ALL AUDIOVISUAL SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC., INSTALLED BY HIM, AND DO ALL WORK WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING.
   C. PRIOR TO THE EXPIRATION OF THE GUARANTEE PERIOD, APPROXIMATELY ELEVEN MONTHS AFTER FINAL ACCEPTANCE OF THIS PROJECT, A POST-CONSTRUCTION REVIEW OF THE PROJECT WILL BE MADE. THE CONTRACTOR SHALL FURNISH PERSONNEL TO ASSIST THE OWNER IN THIS REVIEW ANY ADJUSTMENTS, REPAIRS, OR REPLACEMENTS FOUND NECESSARY DURING REVIEW SHALL BE DONE BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
   D. THE AUDIOVISUAL CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITY FOR ANY DAMAGES CAUSED BY, OR RESULTING FROM, DEFECTS IN HIS WORK.

11. RECORD DRAWINGS
   A. THE AUDIOVISUAL CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. ONE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO TO THE OWNER UPON COMPLETION OF WORK.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
C.	CONDUIT
dB	DECIBEL
DEMARC	SERVICE PROVIDER DEMARCATION POINT
E.C.	EMPTY CONDUIT
EIA	ELECTRONIC INDUSTRY ASSOCIATION
IDF	INTERMEDIATE DISTRIBUTION FACILITY
J.B.	JUNCTION BOX
LAN	LOCAL AREA NETWORK
MANUF	MANUFACTURER
MDF	MAIN DISTRIBUTION FACILITY
N.E.C.	NATIONAL ELECTRIC CODE
O.F.	OPTICAL FIBER
PBX	PRIVATE BRANCH EXCHANGE TELEPHONE EQUIPMENT
PC	PERSONAL COMPUTER
PTR	PRINTER
RM.	ROOM
RX	RECEIVER
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TGB	TELECOMMUNICATIONS GROUNDING BAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TR	TELECOMMUNICATIONS ROOM
TSB	TIA TECHNICAL SERVICE BULLETIN
TYP.	TYPICAL
TX	TRANSMITTER
U.O.N.	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP.	WEATHERPROOF

AUDIOVISUAL DRAWING LIST

AV001	AUDIOVISUAL COVER SHEET
AV101	AUDIOVISUAL PLAN
AV201	AUDIOVISUAL ONE LINE DIAGRAM
AV202	AUDIOVISUAL ONE LINE DIAGRAM
AV301	AUDIOVISUAL DETAILS

ADDITIONAL ELECTRICAL NOTE

ALL AV EQUIPMENT WITHIN ANY ROOM SHALL BE POWERED FROM THE SAME PANEL AND SAME PHASE. THIS INCLUDES POKE-THRUS FOR TABLES, RECEPTACLES NEAR AV WALL PLATES, EQUIPMENT IN RACKS OR CREDENZAS, PROJECTORS, WALL MOUNTED DISPLAYS, AND OTHER EQUIPMENT SUPPORTING THE ROOM. THIS IS NECESSARY TO REDUCE THE POSSIBILITY OF GROUND LOOP DIFFERENTIALS WHICH CAN LEAD TO PERFORMANCE DEGRADATION.

MTFA architecture
3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive, Suite 205
Reston, VA 20191
703.214.0557

Technology/AV/Security
Codetta LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

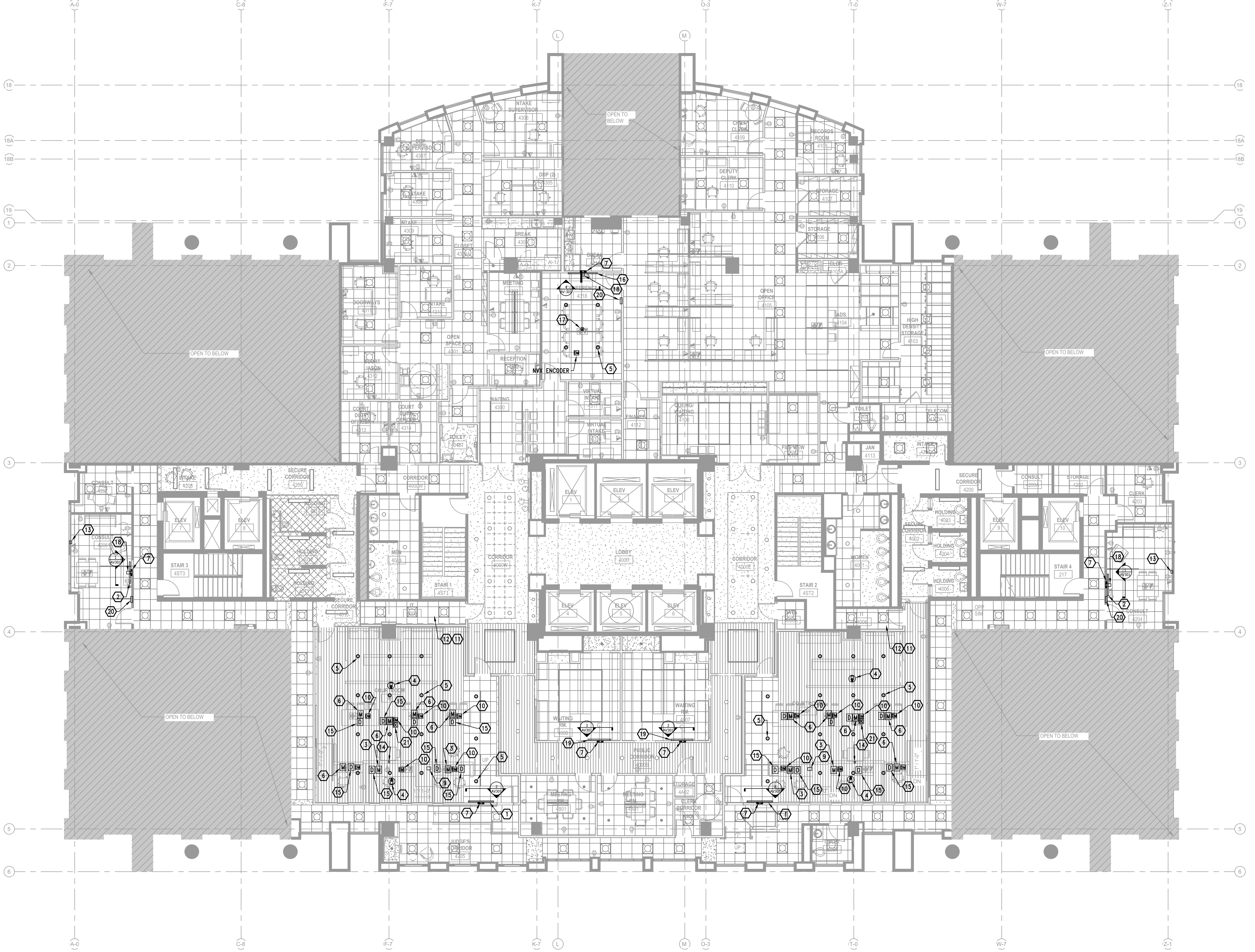
PROJECT # 21085

DATE:	ISSUE:
1/27/2023	Design Development
7/14/2023	Final Submission
8/16/2023	Permit Set
12/12/2023	Permit Resubmission △2

DRAWN: BJH
CHECKED: BJH
SCALE: NONE

SHEET TITLE:
AUDIOVISUAL COVER SHEET

SHEET #
AV001



KEYED NOTES

1. COUNTY PROVIDED AND INSTALLED WALL MOUNTED SONY FWD-65X75K 65" LCD DISPLAY WITH CRESTRON NVX RECEIVER BEHIND DISPLAY. PROVIDE CHIEF THINSTALL WALL MOUNT OR APPROVED EQUAL. DISPLAY AND MOUNT SHALL NOT PROTRUDE MORE THAN 4" FROM THE WALL. GENERAL CONTRACTOR SHALL PROVIDE BACK BOX AND PLYWOOD BACKING FOR MOUNTING OF DISPLAY. COORDINATE EXACT LOCATION WITH ARCHITECT.
2. COUNTY PROVIDED WALL MOUNTED SONY FWD-55X81CH 55" LCD DISPLAY WITH CRESTRON NVX RECEIVER BEHIND DISPLAY. PROVIDE CHIEF THINSTALL WALL MOUNT OR APPROVED EQUAL. DISPLAY AND MOUNT SHALL NOT PROTRUDE MORE THAN 4" FROM THE WALL. GENERAL CONTRACTOR SHALL PROVIDE BACK BOX AND PLYWOOD BACKING FOR MOUNTING OF DISPLAY. COORDINATE EXACT LOCATION WITH ARCHITECT.
3. COUNTY PROVIDED VOICE ACTIVATED MICROPHONE. TYPICAL OF THIS SYMBOL. DO NOT ATTACH MICROPHONES TO TABLE SURFACES.
4. COUNTY PROVIDED AND INSTALLED WHITE CEILING MOUNTED CAMERA TIED INTO VOICE OPERATED MICROPHONE SYSTEM WITH AUTOMATED PRESETS. TYPICAL OF THIS SYMBOL.
5. COUNTY PROVIDED AND INSTALLED WHITE CEILING RECESSED JBL CT SERIES 70V SPEAKERS. PROVIDE MTC-TDC DOGEARS FOR THICK CEILINGS. COORDINATE EXACT PLACEMENT WITH ARCHITECT AND OTHER TRADES. TYPICAL OF THIS SYMBOL UNLESS OTHERWISE NOTED.
6. MICROPHONES PROVIDED AND INSTALLED BY THE COUNTY. MICROPHONES IN COURTS WILL BE VOICE OPERATED AND SIGNAL CAMERAS TO MOVE TO PROGRAMMED PRESETS. PROVIDE XLR JACK FOR EACH MICROPHONE UNDER TABLES.
7. GENERAL CONTRACTOR SHALL PROVIDE BLACK CHIEF PAC526FC BACK BOX FOR DISPLAY. REFER TO DETAIL SHEET FOR MOUNTING HEIGHT. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO BACK BOX. COORDINATE EXACT LOCATION WITH ARCHITECT AND OTHER TRADES.
8. NOT USED.
9. COUNTY PROVIDED CRESTRON TSD-2220 TOUCH PANEL PAIRED WITH CRESTRON DGE-200-C.
10. COUNTY PROVIDED AND INSTALLED CRESTRON NVX RECEIVER SECURELY MOUNTED UNDER TABLE SURFACE. TYPICAL OF THIS SYMBOL. COORDINATE EXACT LOCATION WITH OTHER TRADES.
11. LOCATION FOR COURTROOM AV EQUIPMENT. GENERAL CONTRACTOR SHALL PROVIDE ONE (1) 1 1/2" EMT CONDUIT TO EACH FLOOR BOX. COORDINATE EXACT ROUTING IN THE FIELD.
12. COUNTY SHALL PROVIDE MIDDLE ATLANTIC CABINET WITH POWER STRIPS, COOLING FANS, CASTERS, AND OTHER HARDWARE AS NEEDED. PROVIDE RACK MOUNTED UPS SIZED AS NEEDED FOR EQUIPMENT.
13. GENERAL CONTRACTOR SHALL PROVIDE ONE (1) DOUBLE GANG ELECTRICAL BOX WITH A SINGLE GANG ADAPTER AT 18" A.F.F. FOR AV HDMI CABLING BY THE COUNTY. PROVIDE ONE (1) 1 1/4" EMT CONDUIT STUBBED UP ABOVE TILED CEILING WITH BUSHING.
14. GENERAL CONTRACTOR SHALL PROVIDE ONE (1) SINGLE GANG ELECTRICAL BOX AT 18" A.F.F. FOR STENOGRAPHER HEADPHONES. COUNTY SHALL PROVIDE XLR AND/OR 1/4" AUDIO JACKS AND CABLE ROUTED TO NEAREST FLOOR BOX.
15. COUNTY PROVIDED 21" DISPLAY WITH CRESTRON NVX RECEIVER PROVIDED, CABLED, AND INSTALLED BY THE COUNTY. TYPICAL OF THIS SYMBOL.
16. COUNTY PROVIDED WALL MOUNTED SONY FWD-75X80K 75" LCD DISPLAY WITH CRESTRON NVX RECEIVER BEHIND DISPLAY. PROVIDE WALL MOUNT. GENERAL CONTRACTOR SHALL PROVIDE BACK BOX AND PLYWOOD BACKING FOR MOUNTING OF DISPLAY. COORDINATE EXACT LOCATION WITH ARCHITECT.
17. COUNTY PROVIDED SHURE CEILING MOUNTED BEAM FORMING MICROPHONE ARRAY. COORDINATE EXACT LOCATION WITH COUNTY AND SITE CONDITIONS.
18. COUNTY PROVIDED WEB CAMERA MOUNTED ON TOP OF DISPLAY CENTERED ON TABLE.
19. COUNTY PROVIDED WALL MOUNTED 43" NEC E438 LCD DISPLAY WITH SIGNAGE CONTROLLER BEHIND DISPLAY. PROVIDE CHIEF THINSTALL WALL MOUNT OR APPROVED EQUAL. DISPLAY AND MOUNT SHALL NOT PROTRUDE MORE THAN 4" FROM THE WALL. GENERAL CONTRACTOR SHALL PROVIDE BACK BOX AND PLYWOOD BACKING FOR MOUNTING OF DISPLAY. COORDINATE EXACT LOCATION WITH ARCHITECT.
20. GENERAL CONTRACTOR SHALL PROVIDE ONE (1) DOUBLE GANG ELECTRICAL BOX AT 48" A.F.F. FOR COUNTY PROVIDED CRESTRON TSW-1070 TOUCH PANEL. PROVIDE ONE (1) 1" EMT CONDUIT STUBBED UP ABOVE TILED CEILING WITH BUSHING.
21. DOCUMENT CAMERA AT LECTERN PROVIDED AND INSTALLED BY THE COUNTY.

GENERAL NOTES

1. ALL EQUIPMENT WILL BE REMOVED BY COUNTY. ANYTHING REMAINING TO BE DEMOLISHED BY GENERAL CONTRACTOR AFTER COUNTY APPROVAL.
2. ALL AV EQUIPMENT AND CABLING ARE PROVIDED AND INSTALLED BY THE COUNTY.
3. COORDINATE MOUNTING HEIGHTS AND FINAL LOCATION OF ALL DISPLAYS AND MONITORS IN FIELD WITH ARCHITECT AND AV CONSULTANT.
4. AV CONTRACTOR SHALL PROVIDE ALL AV CABLES (WHITE).

MTFA architecture

3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

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ARLINGTON, VA 22201

Structural
Linton Engineering
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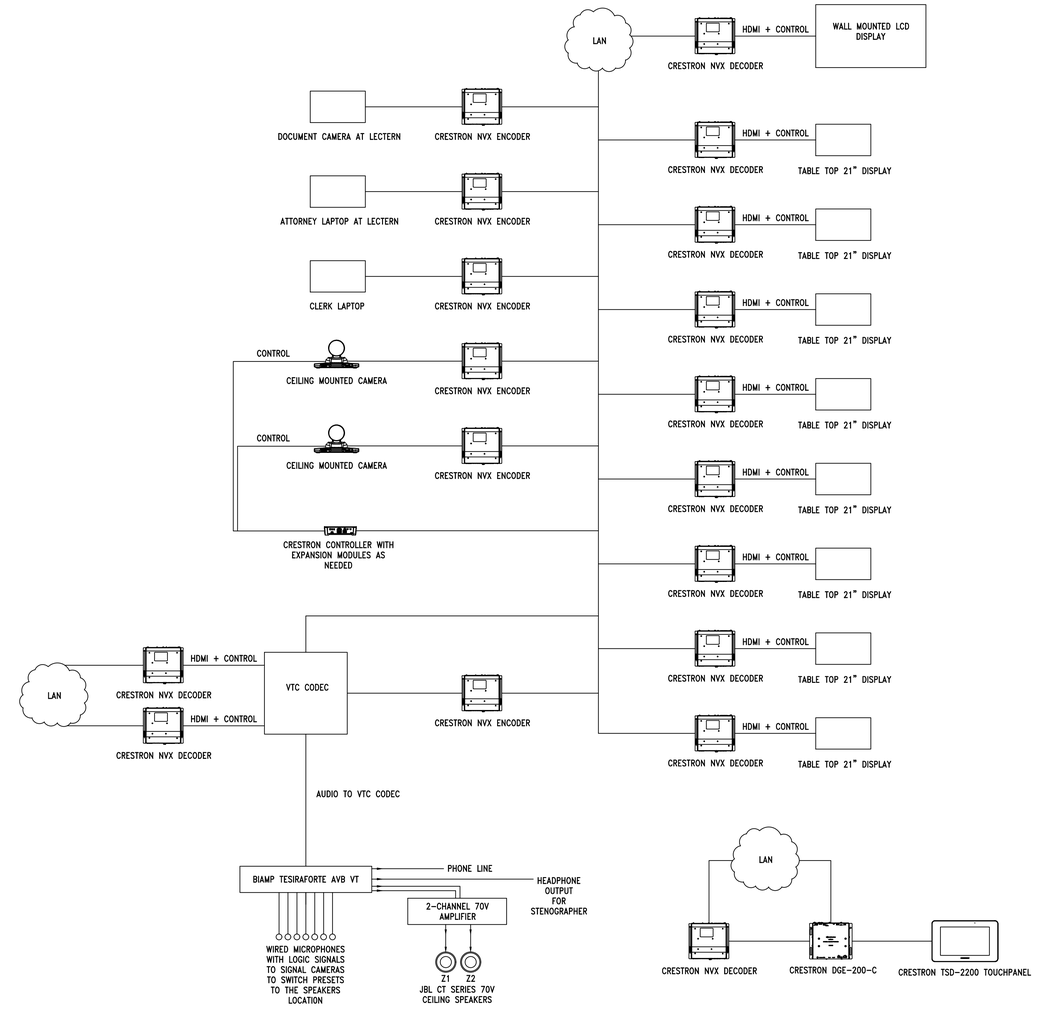
DRAWN: BJH
CHECKED: BJH
SCALE: 1/8" = 1'-0"
SHEET TITLE: **AUDIOVISUAL PLAN**

SHEET # **AV101**



GENERAL NOTES

1. ONE LINE DIAGRAM PROVIDED FOR GENERAL CONTRACTOR INFORMATION. ALL CABLING TO BE PROVIDED AND INSTALLED BY ARLINGTON COUNTY AV CONTRACTOR.

ONE LINE DIAGRAM FOR COURTROOM

NOT TO SCALE

MTFA architecture
3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
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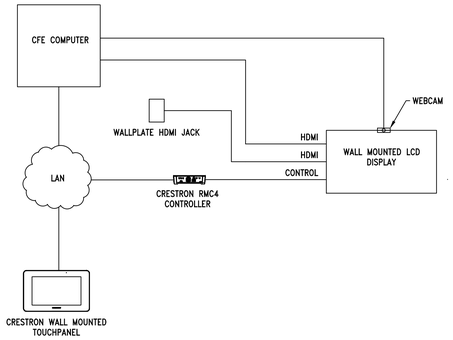
SCALE: NONE

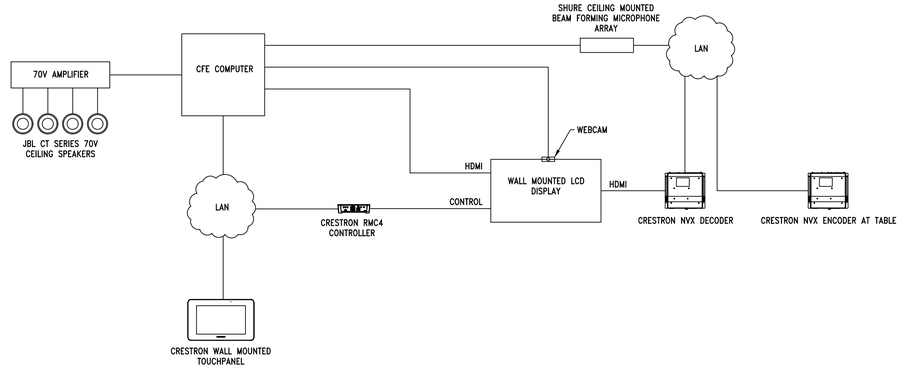
SHEET TITLE:
AUDIOVISUAL ONE LINE DIAGRAM

SHEET #
AV201



ONE LINE DIAGRAM FOR CONSULT ROOMS 4204 & 4206

NOT TO SCALE



ONE LINE DIAGRAM FOR CONFERENCE ROOM 4318

NOT TO SCALE

GENERAL NOTES

1. ONE LINE DIAGRAM PROVIDED FOR GENERAL CONTRACTOR INFORMATION. ALL CABLING TO BE PROVIDED AND INSTALLED BY ARLINGTON COUNTY AV CONTRACTOR.

MTFA architecture

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Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

PROJECT # 21085

DATE:	ISSUE:
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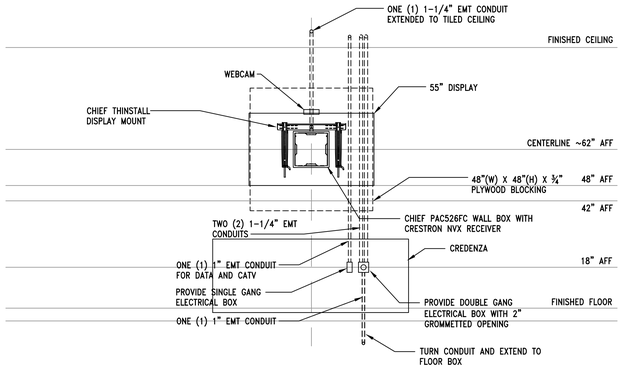
12/12/2023	Permit Resubmission △

DRAWN: BJH
CHECKED: BJH
SCALE: NONE

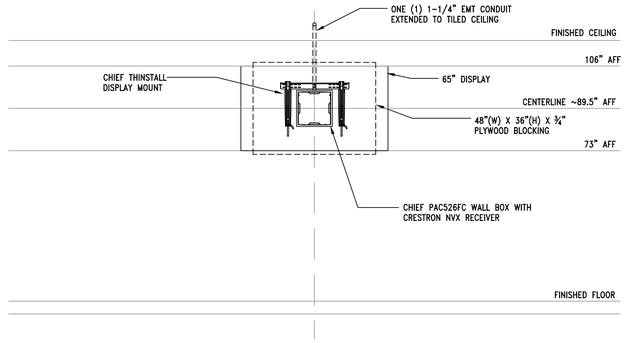
SHEET TITLE:
AUDIOVISUAL ONE LINE DIAGRAM

SHEET #
AV202



1 AV301 CONDUIT DETAIL FOR 55" DISPLAY WITH CAM & CREDENZA

SCALE: NONE



2 AV301 CONDUIT DETAIL FOR 65" DISPLAY

SCALE: NONE

3 AV301 CONDUIT DETAIL FOR 43" DISPLAY

SCALE: NONE

4 AV301 CONDUIT DETAIL FOR 75" TV WITH CAM & CREDENZA

SCALE: NONE

△

GENERAL NOTES

1. GENERAL CONTRACTOR TO PROVIDE ALL PLYWOOD BACK BOARDS, BACK BOXES, AND CONDUIT WITH RING AND STRING.
2. ALL CABLING AND EQUIPMENT TO BE ARLINGTON COUNTY FURNISHED AND INSTALLED.

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3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

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ARLINGTON, VA 22201

Structural
Linton Engineering
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571.323.0320

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SCALE: NONE

SHEET TITLE:
AUDIOVISUAL DETAILS

SHEET #

AV301

SECURITY GENERAL NOTES

1. SCOPE
   - A. SECURITY CONTRACTOR SCOPE OF WORK SHALL INCLUDE:
   - I. PROVIDE AND INSTALL ALL SECURITY DEVICES INCLUDING CARD READERS, ACCESS CARDS, MAGNETIC LOCKS, DOOR RELEASE BUTTONS, DOOR POSITION SENSORS, MOTION SENSORS, INTERCOMS, COMPUTER HARDWARE, MONITORS, PRINTERS, CONTROL PANELS, AND BIOMETRIC SENSORS.

   II. ELECTRIC STRIKES AND ELECTRIC LOCKS PROVIDED AND INSTALLED AS WORK OUTLINED IN SPECIFICATION SECTION 08710. SECURITY CONTRACTOR SHALL INCLUDE CONNECTION AND PROVIDE ALL WIRING INTO THE SECURITY SYSTEM.

   III. PROVIDE AND INSTALL ALL CABLING AND ALL NECESSARY HARDWARE TO CONNECT ALL COMPONENTS AS NEEDED TO ACHIEVE A FULLY FUNCTIONING SECURITY SYSTEM.

   IV. ALL SECURITY DEVICES INSTALLED SHALL BE FULLY COMPLIANT WITH HSPD-12 INCLUDING BUT NOT LIMITED TO CARD READERS, PANELS, HEADEND EQUIPMENT, AND SYSTEM SOFTWARE.
   - B. ELECTRICAL CONTRACTOR SCOPE OF WORK SHALL INCLUDE:
   - I. INSTALLATION OF ALL CONDUITS, PULL BOXES, CONDUIT STUB-UPS, GROUND BARS, GROUNDING EQUIPMENT, AND POWER FOR EQUIPMENT AND OTHER TELECOMMUNICATIONS EQUIPMENT. COORDINATE WITH ELECTRICAL DRAWINGS.

   II. GENERAL CONTRACTOR TO HAVE ALL INSTALLED INFRASTRUCTURE REVIEWED AND APPROVED BY ARLINGTON COUNTY AND SECURITY CONTRACTOR PRIOR TO WALL CLOSE IN.

2. GENERAL CONDITIONS
   - A. ALL SECURITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH ANSI/TIA-568-C "COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD TIA-569-B "COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES", TIA/EIA-606-A "ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS", TIA/EIA-607 "COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS", TIA/EIA 75 "HORIZONTAL PATHWAYS", NEC. BICSI "TELECOMMUNICATIONS DISTRIBUTION MANUAL", AND LOCAL AUTHORITY HAVING JURISDICTION.
   - B. THE DRAWINGS, WHICH CONSTITUTE A PART OF THIS CONTRACT, INDICATE THE GENERAL ARRANGEMENT OF CABLING AND OUTLETS, LOCATIONS OF PANELS, AND OTHER WORK. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE NECESSARY FOR A COMPLETE SECURITY CABLING SYSTEM SHALL BE INCLUDED AT NO ADDITIONAL COST.
   - C. IT SHALL BE THE RESPONSIBILITY OF THE SECURITY CONTRACTOR TO EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS TO BECOME FAMILIAR WITH ALL ASPECTS OF THESE DESIGNS AFFECTING THIS WORK. THE SECURITY CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES.
   - D. ALL SECURITY MATERIALS SHALL BE NEW. DEFECTIVE EQUIPMENT OR EQUIPMENT THAT IS DAMAGED IN THE COURSE OF INSTALLATION OR TESTING SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE ARCHITECT AND ENGINEER. WHERE APPLICABLE, ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA AND UL STANDARDS.
   - E. ALL WORK SHALL BE SUBJECT TO APPROVAL OF THE OWNER OR THE OWNERS AUTHORIZED REPRESENTATIVE.
   - F. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL SPACES SHALL BE LEFT CLEAN, SWEPT AND FREE OF ANY DEBRIS, SCRATCHES, OR MARKINGS.
   - G. WHERE CABLING AND OR CONDUIT PASSES THROUGH FIRE RATED PARTITIONS OR SLABS, GENERAL CONTRACTOR SHALL INSTALL FIRE STOP MATERIALS RATED TO MEET OR EXCEED THE RATINGOF THE STRUCTURE PENETRATED. FIRESTOP MATERIALS SHALL HAVE BEEN TESTED PER UL 1479 AND ASTM E-814. FOR SLEEVES, INSTALL EITHER A MECHANICAL FIRE STOP, INTUMESCENT FIRE STOP PILLOWS OR A COMBINATION OF INTUMESCENT PUTTY AND MINERAL WOOL/CERAMIC FIBER. FOR SLOTS OR LARGER OPENINGS, INSTALL EITHER A MECHANICAL FIRE STOP OR A RATED ASSEMBLY SUITABLE FOR THE TYPE OF OPENING TO BE PROTECTED.
   - H. PRIOR TO SUBMITTING BIDS, THE SECURITY CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER REPRESENTATIVE IN ADVANCE OF BID DATE ANY DISCREPANCIES BETWEEN THE EXISTING BUILDING AND THE DRAWINGS.

3. PATHWAY REQUIREMENTS
   - A. SECURITY CONTRACTOR SHALL INSTALL J-HOOK HARDWARE OR OTHER APPROVED HARDWARE IN CEILING AS SHOWN ON THE DRAWINGS.
   - B. SECURITY CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL CABLING IN THE CEILING WITH THE TELECOM CONTRACTOR FOR COORDINATION OF PATHWAYS.
   - C. SECURITY CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL CONDUITS AND BOXES NEEDED.

4. INSTALLATION PRACTICES
   - A. MANUFACTURER AND TIA 568B RECOMMENDATIONS FOR CABLING BEND RADIUS SHALL BE FOLLOWED AT ALL TIMES.
   - B. CABLES SHALL NOT BE KINKED OR BENT TO A RADIUS OF LESS THAN ONE INCH DURING OR AFTER INSTALLATION.
   - C. DO NOT EXCEED THE MAXIMUM PULLING TENSION SPECIFIED FOR FIBER CABLE BY ITS MANUFACTURER.
   - D. TIE WRAPS SHALL NOT INCREASE THE TENSION OF THE CABLE OR OF ANY INDIVIDUAL PAIRS WITHIN A CABLE. ANY TIE WRAPS CINCHED SO TIGHTLY AS TO CAUSE AN INDENTATION OR DECREASE IN CABLE DIAMETER SHALL BE REMOVED. ALL TIE WRAPS SHALL BE LOOSE ENOUGH TO MOVE OR SLIDE WITHOUT MOVING THE CABLE. EACH TIE WRAP SHALL HAVE 7-14 MM SLACK, SO AS TO ALLOW A FINGER TO PASS UNDER IT. AMOUNT OF THE TIE WRAPS USED SHALL BE MINIMIZED AND PLACED WITH VARYING SPACING. EVENLY SPACED TIE WRAPS CAN REDUCE CABLE PLANT PERFORMANCE.
   - E. MAINTAIN THE SHEATH OF EACH INDIVIDUAL CABLE UP TO THE POINT OF TERMINATION BY REMOVING ONLY AS MUCH CABLE SHEATH AS IS NECESSARY AND PRACTICAL TO TERMINATE THE CABLES.
   - F. ALL CABLING INSTALLED SHALL BE PLENUM RATED.
   - G. SUPPORT CABLE OFF THE FLOOR UNTIL TERMINATION. CABLING THAT HAS BEEN WALKED ON SHALL BE REPLACED.

5. SECURITY HARDWARE
   - A. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL CARD READERS, MOTION SENSORS, MAGNETIC LOCKS, CCTV CAMERAS, RELEASE TO EXIT BUTTONS, DIGITAL VIDEO RECORDER, PTZ CONTROLLERS, MONITORS, MASTER CONSOLE COMPUTER, ACCESS CARDS, SOFTWARE AND ANY OTHER ITEMS AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM AS SHOWN ON THE DRAWINGS AND REQUIRED BY LOCAL CODES.
   - B. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL NETWORKED INTELLIGENT CONTROLLERS.
   - C. SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY HARDWARE AND CABLING AS REQUIRED TO MAKE SYSTEMS OPERATIONAL AS DESIRED BY BY THE OWNERS.
   - D. SECURITY CONTRACTOR SHALL ENSURE THAT ALL DEVICES SUCH AS CARD READERS, KEYPADS AND OTHER DEVICES ARE COMPATIBLE WITH THE ACCESS HARDWARE AS SPECIFIED.
   - E. SECURITY CONTRACTOR SHALL TIE THE SECURITY SYSTEM INTO THE FIRE ALARM SYSTEM TO RELEASE LOCKS AS REQUIRED BY LOCAL CODES.
   - F. ALL SECURITY DEVICES INSTALLED SHALL BE FULLY COMPLIANT WITH HSPD-12 INCLUDING BUT NOT LIMITED TO CARD READERS, PANELS, HEADEND EQUIPMENT, AND SYSTEM SOFTWARE.

6. TRAINING
   - A. THE SECURITY CONTRACTOR SHALL PROVIDE ADEQUATE TRAINING ON THE OPERATION AND USAGE OF THE ENTIRE SYSTEMS INSTALLED UNDER THIS SCOPE. THIS TRAINING MUST BE HELD AT THE JOB SITE AND MUST NOT BE LESS THAN 4 HOURS COORDINATE WITH THE OWNERS,

7. CONDUIT
   - A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND BOXES AS REQUIRED BY EIA/TIA AND LOCAL CODES.
   - B. THE GENERAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL AND MECHANICAL CONDUITS AND HVAC DUCTWORK SHARING THE SAME CEILING AREA.
   - C. REMOVE ALL SHARP EDGES AND BURRS FROM ENDS OF CONDUITS AND INSTALL PLASTIC BUSHINGS BEFORE INSTALLING ANY CABLING.

8. GROUNDING
   - A. ALL SECURITY EQUIPMENT AND RACKS SHALL BE FULLY GROUNDED TO THE GROUND BAR LOCATED IN THE TELECOM ROOM.

9. SITE VISIT
   - A. PRIOR TO SUBMITTING BIDS, THE SECURITY CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. THE SECURITY CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR THE ENGINEER IN ADVANCE OF ANY CONDITION THAT EXISTS THAT WOULD PREVENT THE WORK HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS FROM BEING PERFORMED. FAILURE TO SURVEY THE SITE PRIOR TO BID AND START OF CONSTRUCTION WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO INSTALL DESIGN WITHIN THE CONFINES OF EXISTING CONDITIONS.

10. GUARANTEE
   - A. THE SECURITY CONTRACTOR SHALL LEAVE THE ENTIRE CABLING SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. BENEFICIAL USE SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE.
   - B. THE SECURITY CONTRACTOR SHALL, DURING THE ONE YEAR GUARANTEE PERIOD, BE RESPONSIBLE FOR THE PROPER REPAIR AND ADJUSTMENTS OF ALL TELECOMMUNICATIONS SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC., INSTALLED BY HIM, AND DO ALL WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING.
   - C. PRIOR TO THE EXPIRATION OF THE GUARANTEE PERIOD, APPROXIMATELY ELEVEN MONTHS AFTER FINAL ACCEPTANCE OF THIS PROJECT, A POST-CONSTRUCTION REVIEW OF THE PROJECT WILL BE MADE. THE CONTRACTOR SHALL FURNISH PERSONNEL TO ASSIST THE OWNER IN THIS REVIEW ANY ADJUSTMENTS, REPAIRS, OR REPLACEMENTS FOUND NECESSARY DURING REVIEW SHALL BE DONE BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.
   - D. THE SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITY FOR ANY DAMAGES CAUSED BY, OR RESULTING FROM, DEFECTS IN HIS WORK.

11. RECORD DRAWINGS
   - A. THE SECURITY CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. ONE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO TO THE OWNER UPON COMPLETION OF WORK.

SECURITY SYMBOLS LIST

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
MDC	CEILING MOUNTED DOME COLOR FIXED CAMERA	N/A
WDC	WALL MOUNTED DOME COLOR FIXED CAMERA	AS NOTED
EL	ELECTRIC LOCK WITH INTEGRATED REX OPTION	N/A
DC	DOOR CONTACT SENSOR	N/A
CR	WALL MOUNTED ACCESS CONTROL CARD READER	42" A.F.F. U.O.N.
ML	FAIL SAFE MAGNETIC DOOR LOCK	N/A
MX	CEILING MOUNTED MOTION SENSOR FOR EXIT	N/A
RX	WALL MOUNTED RELEASE TO EXIT	42" A.F.F. U.O.N.
MS	CEILING MOUNTED PIR MOTION SENSOR FOR IDS	N/A
KP	WALL MOUNTED KEYPAD	42" A.F.F. U.O.N.
DB	WALL MOUNTED DURESS BUTTON	42" A.F.F. U.O.N.
DB	DESK MOUNTED DURESS BUTTON	N/A
DR	DESK MOUNTED DOOR RELEASE BUTTON	N/A

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
C.	CONDUIT
dB	DECIBEL
DEMARC	SERVICE PROVIDER DEMARCATION POINT
E.C.	EMPTY CONDUIT
EIA	ELECTRONIC INDUSTRY ASSOCIATION
IDF	INTERMEDIATE DISTRIBUTION FACILITY
J.B.	JUNCTION BOX
LAN	LOCAL AREA NETWORK
MANUF	MANUFACTURER
MDF	MAIN DISTRIBUTION FACILITY
N.E.C.	NATIONAL ELECTRIC CODE
O.F.	OPTICAL FIBER
PBX	PRIVATE BRANCH EXCHANGE TELEPHONE EQUIPMENT
PC	PERSONAL COMPUTER
PTR	PRINTER
RM.	ROOM
RX	RECEIVER
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TGB	TELECOMMUNICATIONS GROUNDING BAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TR	TELECOMMUNICATIONS ROOM
TSB	TIA TECHNICAL SERVICE BULLETIN
TYP.	TYPICAL
TX	TRANSMITTER
U.O.N.	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP.	WEATHERPROOF

SECURITY DRAWING LIST

MTFA architecture

3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive, Suite 205
Reston, VA 20191
703.214.0557

Technology/AV/Security
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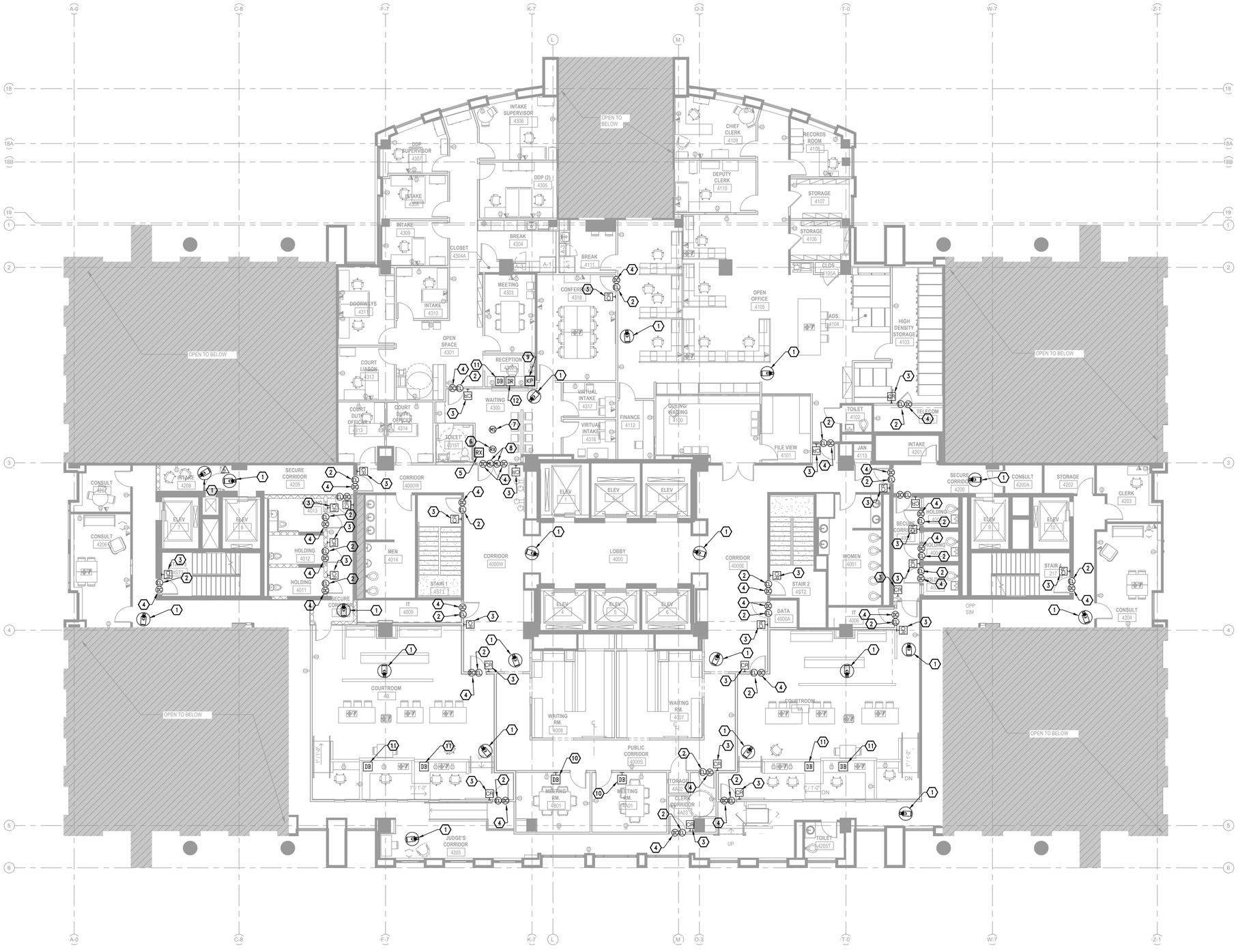
DRAWN: BJH CHECKED: BJH

SCALE: NONE

SHEET TITLE:
SECURITY COVER SHEET

SHEET #
SE001



KEYED NOTES

1. COUNTY PROVIDED 360 DEGREE FISHEYE CEILING MOUNTED INTERIOR FIXED COLOR IP CAMERA WITH POWER OVER ETHERNET (POE). PROVIDE CATEGORY 6 UTP. ELECTRICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED DOUBLE GANG ELECTRICAL BOX AND 1" EMT CONDUIT TO SECURITY HEAD END LOCATION. TYPICAL OF THIS SYMBOL UNLESS OTHERWISE NOTED.
2. COUNTY PROVIDED ELECTRIC LOCK WITH FAIL SECURE FUNCTION AND INTEGRATED REX UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL SPECIFICATIONS AND DRAWINGS. TYPICAL OF THIS SYMBOL UNLESS OTHERWISE NOTED.
3. COUNTY PROVIDED HID ICLASS SEOS CARD READER MOUNTED AT 42" A.F.F. TYPICAL OF THIS SYMBOL. GENERAL CONTRACTOR SHALL PROVIDE A SINGLE GANG ELECTRICAL BOX WITH ONE (1) 1" STUBBED ABOVE FINISHED CEILING WITH BUSHING.
4. COUNTY PROVIDED DOOR CONTACT SENSORS TIED TO THE PACS AND IDS SYSTEM. TYPICAL OF THIS SYMBOL UNLESS OTHERWISE NOTED.
5. COUNTY PROVIDED MANUAL DOOR RELEASE BUTTON MOUNTED AT 42" A.F.F. GENERAL CONTRACTOR SHALL PROVIDE A SINGLE GANG ELECTRICAL BOX WITH ONE (1) 1" STUBBED ABOVE FINISHED CEILING WITH BUSHING. COORDINATE WITH DOOR LOCK SETS.
6. COUNTY PROVIDED BOSCH DS160 REX OR APPROVED EQUAL.
7. COUNTY PROVIDED BOSCH DS9360 TIED TO IDS SYSTEM. △2
8. OWNER PROVIDED MAGNETIC LOCK. SECURITY CONTRACTOR TO PROVIDE RELAY TO RELEASE DOOR UPON ACTIVATION OF A FIRE ALARM. TIE TO FIRE ALARM SYSTEM.
9. COUNTY PROVIDED WALL MOUNTED IDS KEYPAD AT 42" A.F.F. – FINAL LOCATIONS TO BE DETERMINED IN THE FIELD. GENERAL CONTRACTOR SHALL PROVIDE A SINGLE GANG ELECTRICAL BOX WITH ONE (1) 1" STUBBED ABOVE FINISHED CEILING WITH BUSHING.
10. COUNTY PROVIDED WALL MOUNTED DURESS BUTTON AT 42" A.F.F. GENERAL CONTRACTOR SHALL PROVIDE A SINGLE GANG ELECTRICAL BOX WITH ONE (1) 1" STUBBED ABOVE FINISHED CEILING WITH BUSHING.
11. COUNTY PROVIDED DESK MOUNTED DURESS BUTTON. DURESS BUTTONS IN COURTROOMS SHALL UNLOCK DOORS INTO JUDGE'S CORRIDOR FOR 15-20 SECONDS BEFORE RELOCKING.
12. COUNTY PROVIDED DESK MOUNTED DOOR RELEASE BUTTON.

GENERAL NOTES

1. SECURITY CONTRACTOR TO REMOVE ALL HARDWARE FOR REUSE OR SALVAGE. GENERAL CONTRACTOR TO DEMOLISH ANY REMAINING DEVICES AFTER APPROVAL FROM ARLINGTON COUNTY.
2. COORDINATE MOUNTING HEIGHTS AND FINAL LOCATION OF ALL CARD READERS IN FIELD WITH ARCHITECT AND SECURITY CONSULTANT.
3. SECURITY CONTRACTOR TO PROVIDE ALL SECURITY CABLING, WHICH IS TO BE RED.

△

MTFA architecture
3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

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571.323.0320

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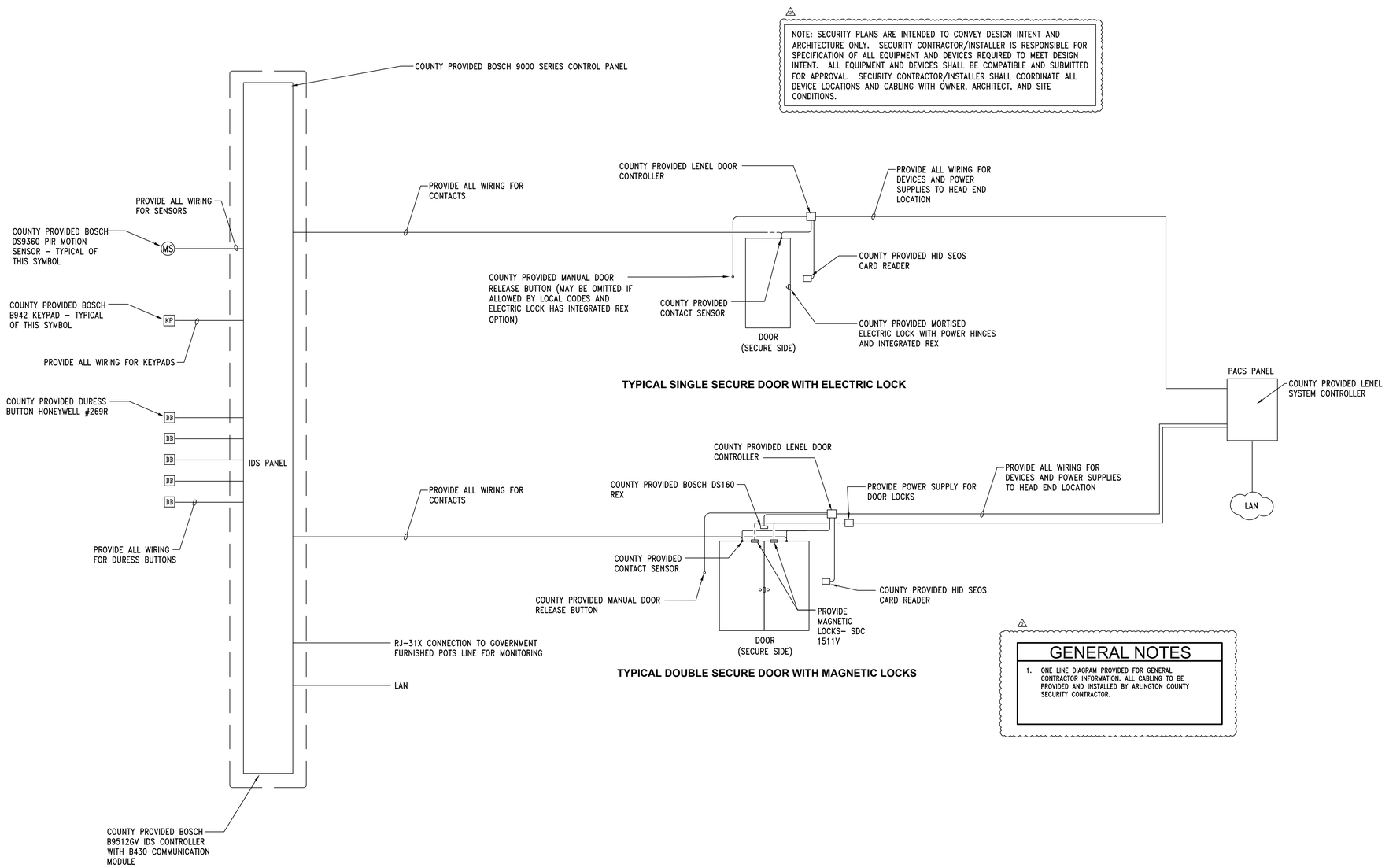
DRAWN: BJH
CHECKED: BJH
SCALE: 1/8" = 1'-0"

SHEET TITLE:
SECURITY PLAN

SHEET #
SE101



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NOTE: SECURITY PLANS ARE INTENDED TO CONVEY DESIGN INTENT AND ARCHITECTURE ONLY. SECURITY CONTRACTOR/INSTALLER IS RESPONSIBLE FOR SPECIFICATION OF ALL EQUIPMENT AND DEVICES REQUIRED TO MEET DESIGN INTENT. ALL EQUIPMENT AND DEVICES SHALL BE COMPATIBLE AND SUBMITTED FOR APPROVAL. SECURITY CONTRACTOR/INSTALLER SHALL COORDINATE ALL DEVICE LOCATIONS AND CABLING WITH OWNER, ARCHITECT, AND SITE CONDITIONS.

GENERAL NOTES

1. ONE LINE DIAGRAM PROVIDED FOR GENERAL CONTRACTOR INFORMATION. ALL CABLING TO BE PROVIDED AND INSTALLED BY ARLINGTON COUNTY SECURITY CONTRACTOR.

ACCESS CONTROL AND IDS ONE LINE DIAGRAM

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3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

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ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
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571.323.0320

MEP / FP
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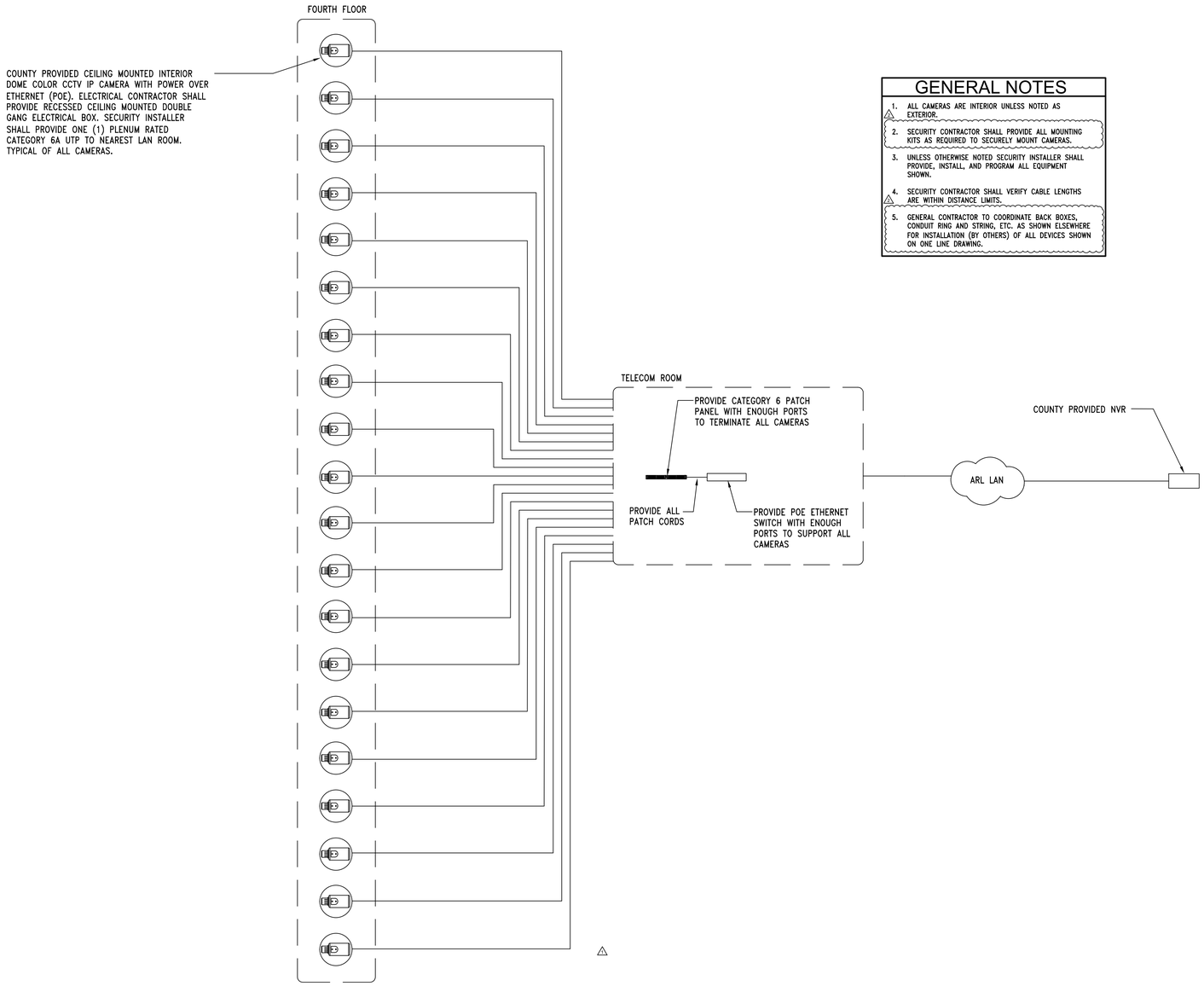
SCALE: NONE

SHEET TITLE:
SECURITY ONE LINE DIAGRAM

SHEET #
SE201



SECURITY VSS ONE LINE DIAGRAM

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3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
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SHEET TITLE:
SECURITY ONE LINE DIAGRAM

SHEET #
SE202

TELECOMMUNICATIONS GENERAL NOTES

1. SCOPE
   - A. FOR PURPOSES OF CLARITY THE TERM "LADDER RACK" IS USED TO DESIGNATE ANY CABLE TRAY LOCATED WITHIN SERVICE ENTRANCE ROOMS, TELECOMMUNICATIONS ROOMS, INFRASTRUCTURE ROOMS AND ANY ADDITIONAL ROOMS AS SHOWN ON DRAWINGS. THE TERM "CABLE TRAY" WILL BE USED TO DESCRIBE CABLE TRAY IN CORRIDORS, CHASES AND OTHER PATHWAYS.
   - B. TELECOMMUNICATIONS CONTRACTOR SCOPE OF WORK SHALL INCLUDE:
     - INSTALLATION AND TESTING OF ALL COPPER RISERS, EQUIPMENT RACKS, PATCH PANELS, WIRE MANAGEMENT, J-HOOKS, LADDER RACK, ALL TELECOM HORIZONTAL CABLING, COPPER AND FIBER BACKBONE CABLES, AND ALL TELECOM OUTLETS.
     - COORDINATION WITH THE ELECTRICAL CONTRACTOR ON GROUNDING AND BONDING OF ALL EQUIPMENT AND POWER REQUIREMENTS.
   - C. ELECTRICAL CONTRACTOR SCOPE OF WORK SHALL INCLUDE:
     - INSTALLATION OF ALL CONDUITS, PULL BOXES, CONDUIT STUB-UPS, GROUND BARS, GROUNDING EQUIPMENT, AND POWER FOR EQUIPMENT AND OTHER TELECOMMUNICATIONS EQUIPMENT. COORDINATE WITH ELECTRICAL DRAWINGS.
     - INSTALLATION OF EMT CONDUIT PATHWAYS WITH RING AND STRING AS SPECIFIED WITHIN THESE DRAWINGS.
2. GENERAL CONDITIONS
   - A. ALL TELECOMMUNICATIONS WORK SHALL BE PERFORMED IN ACCORDANCE WITH AND ADHERENCE TO AND COMPLIANCE WITH THE CODES, STANDARDS AND INDUSTRY PRACTICES LISTED BELOW.
     - NATIONAL ELECTRICAL SAFETY CODE, AMERICAN NATIONAL STANDARDS INSTITUTE C2,
     - NATIONAL ELECTRIC CODE (NEC) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA
     - 70)
     - FIRESTOP CONTRACTORS INTERNATIONAL ASSOCIATION (FCIA) MANUAL OF PRACTICE.
     - ANSI/TIA-568-D COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARDS.
     - ANSI/TIA-569-D TELECOMMUNICATIONS PATHWAYS AND SPACES.
     - ANSI/TIA-606-C ADMINISTRATION STANDARD FOR COMMERCIAL TELECOMMUNICATIONS INFRASTRUCTURE.
     - ANSI/TIA-607-D GENERIC TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES.
     - ANSI/TIA-862-B STRUCTURED CABLING INFRASTRUCTURE STANDARD FOR INTELLIGENT BUILDING SYSTEMS.
     - ANSI/TIA-942-B TELECOMMUNICATIONS INFRASTRUCTURE STANDARD FOR DATA CENTERS
     - BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (LATEST EDITION)
     - ARLINGTON COUNTY GOVERNMENT DTS NETWORK INFRASTRUCTURE STANDARDS
   - B. THE DRAWINGS, WHICH CONSTITUTE A PART OF THIS CONTRACT, INDICATE THE GENERAL ARRANGEMENT OF CABLING AND OUTLETS, LOCATIONS OF PANELS, AND OTHER WORK. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE NECESSARY FOR A COMPLETE TELECOMMUNICATIONS CABLING SYSTEM SHALL BE INCLUDED AT NO ADDITIONAL COST.
   - C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS TO BECOME FAMILIAR WITH ALL ASPECTS OF THESE DESIGNS AFFECTING THIS WORK. THE TELECOMMUNICATIONS CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES.
   - D. ALL TELECOMMUNICATIONS MATERIALS SHALL BE NEW. DEFECTIVE EQUIPMENT OR EQUIPMENT THAT IS DAMAGED IN THE COURSE OF INSTALLATION OR TESTING SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING THE APPROVAL OF THE ARCHITECT AND ENGINEER. WHERE APPLICABLE, ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH NEMA AND UL STANDARDS.
   - E. ALL WORK SHALL BE SUBJECT TO APPROVAL OF THE OWNER OR THE OWNERS AUTHORIZED REPRESENTATIVE.
   - F. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL SPACES SHALL BE LEFT CLEAN, SWEPT AND FREE OF ANY DEBRIS, SCRATCHES, OR MARKINGS.
   - G. ALL DATA CABLE BUNDLES SHALL UTILIZE APPROVED FIRESTOPPING WHEREVER SAID CABLES PENETRATE RATED WALLS PER LOCAL CODES.
   - H. PRIOR TO SUBMITTING BIDS, THE TELECOM CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER REPRESENTATIVE IN ADVANCE OF BID DATE ANY DISCREPANCIES BETWEEN THE EXISTING BUILDING AND THE DRAWINGS.
   - I. THE TELECOM CONTRACTOR SHALL BE CERTIFIED BY MANUFACTURER AND HAVE A MANUFACTURER CERTIFIED INSTALLER ON THE JOB AT ALL TIMES. THE CONTRACTOR MUST BE IN GOOD STANDING WITH THE MANUFACTURER AND AUTHORIZED TO PASS THROUGH THE MANUFACTURER'S EXTENDED WARRANTY.
   - J. TELECOM CONTRACTOR SHALL LABEL ALL CABLES, PATCH PANELS, PORTS, OUTLETS CONDUITS, LADDER TRAY, OUTLET PORTS, CONDUITS, LADDER RACK.
3. PATHWAY REQUIREMENTS
   - A. INSTALL ALL HORIZONTAL TELECOMMUNICATIONS CABLES IN CEILING USING EITHER THE CABLE TRAY, CONDUIT, OR J-HOOKS AS SHOWN ON DRAWINGS.
   - B. ROUTE ALL CABLES INSIDE SYSTEMS FURNITURE (IF APPLICABLE) USING THE MANUFACTURED CABLE CHANNELS.
   - C. COORDINATE WITH TENANT ON THE INSTALLATION OF CABLES WHICH ARE ROUTED IN LADDER RACK AND TERMINATED IN THE SERVER ROOM.
4. INSTALLATION PRACTICES
   - A. MANUFACTURER AND TIA 568C RECOMMENDATIONS FOR CABLING BEND RADIUS SHALL BE FOLLOWED AT ALL TIMES.
   - B. VELCRO STRAPS SHALL NOT INCREASE THE TENSION OF THE CABLE OR OF ANY INDIVIDUAL PAIRS WITHIN A CABLE. ANY STRAPS CINCHED SO TIGHTLY AS TO CAUSE AN INDENTATION OR DECREASE IN CABLE DIAMETER SHALL BE REMOVED. ALL TIE WRAPS SHALL BE LOOSE ENOUGH TO MOVE OR SLIDE WITHOUT MOVING THE CABLE. EACH VELCRO STRAP SHALL HAVE 1/4 – 1/2 INCH SLACK, SO AS TO ALLOW A FINGER TO PASS UNDER IT. AMOUNT OF THE TIE STRAPS USED SHALL BE MINIMIZED AND PLACED WITH VARYING SPACING. EVENLY SPACED VELCRO STRAPS CAN REDUCE CABLE PLANT PERFORMANCE.
   - C. MAINTAIN THE SHEATH OF EACH INDIVIDUAL CABLE UP TO THE POINT OF TERMINATION BY REMOVING ONLY AS MUCH CABLE SHEATH AS IS NECESSARY AND PRACTICAL TO TERMINATE THE CABLES.
   - D. ALL HORIZONTAL CABLING INSTALLED SHALL BE PLENUM RATED.
   - E. SUPPORT CABLE OFF THE FLOOR UNTIL TERMINATION. CABLING THAT HAS BEEN WALKED ON SHALL BE REPLACED.
5. HORIZONTAL CABLES
   - A. TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL PLENUM RATED CATEGORY 6 UTP HORIZONTAL CABLES AS SHOWN ON THE DRAWINGS.
   - B. SUPPORT ALL HORIZONTAL CABLES ON CABLE TRAY, J-HOOKS, CONDUIT, OR LADDER RACK AS SHOWN ON THE DRAWINGS.
   - C. ALL CATEGORY 6 CABLES AND JACK INSERTS USED SHALL BE COLOR CODED YELLOW FOR DATA. ACCESS POINT CABLES SHALL BE COLOR CODED PURPLE AND TERMINATED ON A SEPARATE PATCH PANEL. VERIFY FINAL COLOR CODING WITH TENANT.
   - D. TELECOM CONTRACTOR SHALL PROVIDE, INSTALL, AND TERMINATE CATEGORY 6 PATCH PANELS FOR CABLES.
   - E. TELECOM CONTRACTOR SHALL PROVIDE A 3' SERVICE LOOP AT ALL WAO ENDS. SERVICE LOOP SHALL BE LEFT ABOVE FINISHED CEILING IF APPLICABLE.
   - F. IN CONFERENCE ROOMS TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL TELECOM CABLES IN RACEWAY IN FLOOR AS SHOWN ON DRAWINGS.
   - G. ALL DATA HORIZONTAL CATEGORY 6 CABLES ARE TO BE TERMINATED SEQUENTIALLY ONTO ANGLED RACK MOUNTED CATEGORY 6 PATCH PANELS IN THE LAN ROOM.
   - H. ALL CABLING SHALL BE TESTED WITH CERTIFIED TESTING EQUIPMENT FOR CATEGORY 6 CABLING. METER SHALL BE SET UP WITH MANUFACTURER PROFILE TESTING SHALL BE CONDUCTED WITH THE PLOTS TURNED ON.
   - I. TIE WRAPS ARE NOT PERMITTED CONTRACTOR SHALL USE PLENUM RATED VELCRO STYLE STRAPS.
6. OUTLETS
   - A. TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL CATEGORY 6 RJ-45 8-PIN MODULAR JACKS IN OUTLETS AS SHOWN ON DRAWINGS.
   - B. ALL RJ-45 JACKS SHALL BE WIRED EIA-T568B.
   - C. ALL OUTLETS SHALL BE TESTED WITH CERTIFIED TEST EQUIPMENT FOR CATEGORY 6 USE.
   - D. TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLING IN SYSTEMS FURNITURE. COORDINATE WITH FURNITURE VENDOR.
   - E. TELECOM CONTRACTOR SHALL COORDINATE COLOR OF FACEPLATES WITH THE ARCHITECT.
   - F. PROVIDE PATCH CORDS FOR USER COMPUTERS AND ACCESS POINTS FROM OUTLET TO COMPUTER LOCATION. PATCH CORD COLORS SHALL MATCH HORIZONTAL CABLE.
7. LADDER RACK
   - A. TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL LADDER RACK IN THE LAN ROOMS AS SHOWN TO SUPPORT CABLES.
   - B. ELECTRICAL CONTRACTOR TO GROUND ALL LADDER RACK, CABINETS, AND EQUIPMENT RACKS TO GROUND BARS LOCATED IN LAN ROOMS.
8. CONDUIT
   - A. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL METALLIC CONDUIT ON FLOORS AS SHOWN ON DRAWINGS.
   - B. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL PULL BOXES WITH RING AND STRING AS SHOWN ON DRAWINGS.
   - C. COORDINATE WITH THE INSTALLATION OF ELECTRICAL AND MECHANICAL CONDUITS AND HVAC DUCTWORK SHARING THE SAME CEILING AREA.
   - D. REMOVE ALL SHARP EDGES AND BURRS FROM END OF CONDUITS AND INSTALL PLASTIC BUSHING.
9. LAN ROOMS
   - A. TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL LADDER RACK AS SHOWN TO SUPPORT CABLES.
   - B. TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL ALL ANGLED PATCH PANELS, WIRE MANAGEMENT, AND ASSOCIATED HARDWARE AS NEEDED IN LAN ROOMS TO SUPPORT.
   - C. PATCH PANEL JACKS SHALL MATCH CABLE COLOR.
   - D. TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL FIBER ENCLOSURES WITH LC PANELS TO TERMINATE ALL FIBER.
   - E. TELECOM CONTRACTOR SHALL PROVIDE AND INSTALL WALL MOUNTED 110 TERMINATION BLOCKS TO TERMINATE ANALOG COPPER.
   - F. TELECOM CONTRACTOR SHALL PROVIDE ALL FIRE STOP MATERIAL INTO SLOTS AND SLEEVES. COORDINATE WITH ALL OTHER TRADES.
   - G. TELECOM CONTRACTOR SHALL TERMINATE ALL HORIZONTAL CABLES ON PATCH PANELS.
   - H. ALL HORIZONTAL CABLES SHALL BE LABELED AT THE FACEPLATE AND PATCH PANEL USING THE END USERS LABELING SYSTEM. ALL HORIZONTAL CABLES AND PATCH CORDS SHALL BE LABELED AT BOTH ENDS.
   - I. ALL FIBER AND COPPER BACKBONE CABLES SHALL BE LABELED AT BOTH ENDS.
   - J. PROVIDE PATCH CORDS FOR CONNECTION OF BACKBONES TO SWITCHES/SERVERS AND COPPER PATCH PANELS TO SWITCHES. PATCH CORDS SHALL MATCH HORIZONTAL CABLE COLORS.
10. GROUNDING
    - A. TELECOM CONTRACTOR SHALL MAINTAIN ALL GROUND BONDS TO CABINETS, RACKS, LADDER RACK, AND OTHER EQUIPMENT IN THE SERVER ROOM.
11. SITE VISIT
    - A. PRIOR TO SUBMITTING BIDS, THE TELECOM CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. THE TELECOM CONTRACTOR SHALL NOTIFY THE ARCHITECT AND/OR THE ENGINEER IN ADVANCE OF ANY CONDITION THAT EXISTS THAT WOULD PREVENT THE WORK HEREIN SPECIFIED OR SHOWN ON THE DRAWINGS FROM BEING PERFORMED. FAILURE TO SURVEY THE SITE PRIOR TO BID AND START OF CONSTRUCTION WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO INSTALL DESIGN WITHIN THE CONFINES OF EXISTING CONDITIONS.
12. GUARANTEE
    - A. THE TELECOMMUNICATIONS CONTRACTOR SHALL LEAVE THE ENTIRE CABLING SYSTEM INSTALLED UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL, WITHOUT CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. BENEFICIAL USE SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE.
    - B. THE TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE A MANUFACTURERS CERTIFIED WARRANTY ON THE ENTIRE INSTALLATION COVERING A MINIMUM OF 15 YEARS. DURING THE GUARANTEE PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REPAIR AND ADJUSTMENTS OF ALL TELECOMMUNICATIONS SYSTEMS AND EQUIPMENT, APPARATUS, DEVICES, ETC., INSTALLED BY, AND DO ALL WORK NECESSARY TO ENSURE EFFICIENT AND PROPER FUNCTIONING.
    - C. THE TELECOMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL INCUR FINANCIAL RESPONSIBILITY FOR ANY DAMAGES CAUSED BY, OR RESULTING FROM, DEFECTS IN HIS WORK.
13. RECORD DRAWINGS
    - A. THE TELECOMMUNICATIONS CONTRACTOR SHALL MAINTAIN AT THE SITE, FOR THE OWNER, ONE COPY OF ALL AS-BUILT DRAWINGS, ADDENDA, APPROVED SHOP DRAWINGS, REVISIONS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. ONE SET OF DRAWINGS AND OTHER INFORMATION SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF WORK.
    - B. AS-BUILT DRAWINGS SHALL ALSO CONTAIN ALL LABELING FOR JACKS.
14. ACCEPTANCE TESTING
    - A. THE CONTRACTOR SHALL COMMENCE TESTING AFTER ELECTRICAL SYSTEMS HAVE BEEN POWERED ON AND AFTER OPERATIONAL CONDITIONS BECOME SIMILAR TO NORMAL OPERATIONS. ANY DUST PRODUCING CONSTRUCTION ACTIVITIES SHALL BE COMPLETED PRIOR TO ANY CABLE TESTING.
    - B. THE CONTRACTOR SHALL USE CERTIFIED EQUIPMENT WITH PLOTS TURNED ON. TEST EACH CABLE AND OUTLET FOR CATEGORY 6. TEST SHALL BE IN ACCORDANCE WITH LATEST TIA/EIA STANDARDS AND AND LATEST TSB. PROVIDE THE ACTUAL NATIVE MACHINE TEST RESULTS DOWNLOADED FROM THE TEST EQUIPMENT TO THE TENANT FOR REVIEW. CONTRACTOR SHALL REPLACE AND RETEST AT NO COST ANY LINK NOT MEETING TIA/EIA AND LATEST TSB CATEGORY 6 REQUIREMENTS.

TELECOMMUNICATIONS SYMBOLS

SYMBOL	DESCRIPTION	MTG HT
T	TELECOM CONTRACTOR TO PROVIDE TELECOM OUTLET WITH TWO (2) RJ-45 8-PIN CATEGORY 6 MODULAR JACKS FOR DATA IN A SINGLE GANG 2-PORT FACEPLATE UNLESS OTHERWISE NOTED. PROVIDE PLENUM RATED 100-OHM 4-PAIR CATEGORY 6 UTP CABLES TERMINATED 568B (UNLESS OTHERWISE NOTED) FROM JACK TO LAN ROOM PATCH PANELS. ELECTRICAL CONTRACTOR SHALL INSTALL MUD RING AND TWO PULL STRINGS EXCEPT IN INSULATED WALLS WHERE ONE (1) 1" EMT CONDUIT SHALL BE STUBBED TO TILED CEILING WITH TWO PULL STRINGS.	18" A.F.F. U.O.N.
P T	TELECOM CONTRACTOR TO PROVIDE PRINTER OUTLET WITH FOUR (4) RJ-45 8-PIN CATEGORY 6 MODULAR JACKS FOR DATA IN A SINGLE GANG 4-PORT FACEPLATE UNLESS OTHERWISE NOTED. PROVIDE PLENUM RATED 100-OHM 4-PAIR CATEGORY 6 UTP CABLES TERMINATED 568B (UNLESS OTHERWISE NOTED) FROM JACK TO LAN ROOM PATCH PANELS. ELECTRICAL CONTRACTOR SHALL INSTALL MUD RING AND TWO PULL STRINGS EXCEPT IN INSULATED WALLS WHERE ONE (1) 1" EMT CONDUIT SHALL BE STUBBED TO TILED CEILING WITH TWO PULL STRINGS	18" A.F.F U.O.N.
F T	TELECOM CONTRACTOR TO PROVIDE SYSTEMS FURNITURE TELECOM OUTLET WITH TWO (2) RJ-45 8-PIN CATEGORY 6 MODULAR JACKS FOR DATA. PROVIDE PLENUM RATED 100-OHM 4-PAIR CATEGORY 6 UTP CABLES TERMINATED 568B (UNLESS OTHERWISE NOTED) FROM JACK TO LAN ROOM PATCH PANELS. PROVIDE FURNITURE INSERT PLATES AS RECOMMENDED BY FURNITURE MANUFACTURER. SURFACE MOUNTED BOXES ARE NOT ACCEPTABLE. WHEN WORK AREAS ARE FED FROM WALL MOUNTED BOX PROVIDE TWO (2) CATEGORY 6 PATCH CORDS TO EACH WORKSTATION. PROVIDE GROMMETTED FURNITURE INSERT PLATE AS RECOMMENDED BY FURNITURE MANUFACTURER.	N/A
T	POKE-THRU/FLOOR BOX BY GENERAL CONTRACTOR. TELECOM CONTRACTOR TO PROVIDE FOUR (4) RJ-45 8-PIN CATEGORY 6 MODULAR JACKS FOR DATA. PROVIDE PLENUM RATED 100-OHM 4-PAIR CATEGORY 6 UTP CABLES TERMINATED 568B (UNLESS OTHERWISE NOTED) FROM JACKS TO LAN ROOM PATCH PANELS. PROVIDE JACK INSERTS AND ADAPTER PLATES PER MANUFACTURERS RECOMMENDATIONS.	N/A
F T	POKE-THRU/FLOOR BOX BY GENERAL CONTRACTOR FOR SYSTEM FURNITURE. TELECOM CONTRACTOR TO PROVIDE TWO (2) RJ-45 8-PIN CATEGORY 6 MODULAR JACKS PER SEAT FOR DATA. PROVIDE PLENUM RATED 100-OHM 4-PAIR CATEGORY 6 UTP CABLES TERMINATED 568B (UNLESS OTHERWISE NOTED) FROM JACKS TO LAN ROOM PATCH PANELS. PROVIDE JACK INSERTS AND ADAPTER PLATES PER MANUFACTURERS RECOMMENDATIONS.	N/A
WAP	TELECOM CONTRACTOR TO PROVIDE CEILING TELECOM OUTLET WITH TWO (2) RJ-45 8-PIN CATEGORY 6A UTP CABLES TERMINATED 568B (UNLESS OTHERWISE NOTED) FROM JACK TO LAN ROOM PATCH PANELS. PROVIDE A 20' SERVICE LOOP ABOVE CEILING. FINAL LOCATIONS AND QUANTITIES OF ACCESS POINTS TO BE DETERMINED BY THE COUNTY.	N/A

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
C.	CONDUIT
dB	DECIBEL
DEMARC	SERVICE PROVIDER DEMARCATION POINT
E.C.	EMPTY CONDUIT
EIA	ELECTRONIC INDUSTRY ASSOCIATION
IDF	INTERMEDIATE DISTRIBUTION FACILITY
J.B.	JUNCTION BOX
LAN	LOCAL AREA NETWORK
MANUF	MANUFACTURER
MDF	MAIN DISTRIBUTION FACILITY
N.E.C.	NATIONAL ELECTRIC CODE
O.F.	OPTICAL FIBER
PBX	PRIVATE BRANCH EXCHANGE TELEPHONE EQUIPMENT
PC	PERSONAL COMPUTER
PTR	PRINTER
RM.	ROOM
RX	RECEIVER
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TGB	TELECOMMUNICATIONS GROUNDING BAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TR	TELECOMMUNICATIONS ROOM
TSB	TIA TECHNICAL SERVICE BULLETIN
TYP.	TYPICAL
TX	TRANSMITTER
U.O.N.	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP.	WEATHERPROOF

DRAWING LIST

T001	TELECOMMUNICATIONS COVER SHEET
T101	TELECOMMUNICATIONS PLAN
T201	TELECOMMUNICATIONS DETAILS
T202	TELECOMMUNICATIONS DETAILS

MTFA architecture

3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive, Suite 205
Reston, VA 20191
703.214.0557

Technology/AV/Security
Codetta LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

PROJECT # 21085

DATE:	ISSUE:
1/27/2023	Design Development
7/14/2023	Final Submission
8/16/2023	Permit Set
10/6/2023	Permit Revision 1 △1
12/12/2023	Permit Resubmission △2

DRAWN: BJH
CHECKED: BJH
SCALE: NONE

SHEET TITLE:
TELECOMMUNICATIONS COVER SHEET

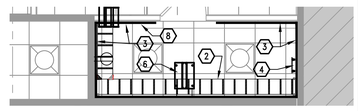
SHEET #
T001

KEYED NOTES

1. TELECOM CONTRACTOR SHALL PROVIDE 12" ROLLED J-HOOKS SPACED NO MORE THAN 5' APART SECURELY ANCHORED TO SLAB WITH ALL-THREAD. FOLLOW MANUFACTURER RECOMMENDATIONS FOR CABLE LOADING. COORDINATE ROUTING WITH OTHER TRADES.
2. TELECOM CONTRACTOR SHALL PROVIDE WALL MOUNTED BLACK 12" LADDER RACK ABOVE RACK WITH WATERFALL WALL BRACKETS, RACK TO RUNWAY MOUNTING PLATES, AND ALL HARDWARE NEEDED TO INSTALL PER MANUFACTURERS RECOMMENDATIONS. BOND ALL LADDER TO GROUND. COORDINATE FINAL LOCATION WITH SITE CONDITIONS.
3. GENERAL CONTRACTOR SHALL PROVIDE 3/4" FIRE RATED PLYWOOD WITH TWO COATS OF FIRE RETARDANT WHITE PAINT.
4. GROUND BAR BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATION.
5. GENERAL CONTRACTOR SHALL PROVIDE TWO (2) 4" EMT CONDUIT SLEEVES WITH BUSHINGS ON BOTH ENDS ABOVE FINISHED CEILING. TELECOM INSTALLER SHALL FIRESTOP AFTER CABLE INSTALLATION.
6. TELECOM CONTRACTOR SHALL PROVIDE 19" 45U 2-POST RACK WITH HORIZONTAL AND VERTICAL CABLE MANAGEMENT, FIBER ENCLOSURES WITH LC PANELS, AND CATEGORY 6 ANGLED PATCH PANELS AS NEEDED TO TERMINATE ALL CABLES.
7. TELECOM CONTRACTOR SHALL PROVIDE 12-STRAND SINGLEMODE FIBER BACKBONE TIE FROM THE 3RD FLOOR AND ONE 25-PAIR CATEGORY CATEGORY 5E TO TELECOM ROOM 4103A. TERMINATE IN FIBER ENCLOSURE AND WALL MOUNTED 110 BLOCK.
8. PROPOSED WALL AREA FOR SECURITY PANELS.
9. GENERAL CONTRACTOR SHALL PROVIDE ONE (1) 4" EMT CONDUIT ABOVE FINISHED CEILING ROUTED DOWN INTO THIRD FLOOR COMMUNICATIONS ROOM. COORDINATE EXACT ROUTE IN FIELD PER SITE CONDITIONS. COORDINATE WITH ELECTRICAL DRAWINGS.
10. GENERAL CONTRACTOR SHALL PROVIDE 60"L x 15"W x 8"D PULL BOX ABOVE FINISHED CEILING.

GENERAL NOTES

1. TELECOM DEVICES TO BE SALVAGED WILL BE REMOVED BY THE TELECOM CONTRACTOR. GENERAL CONTRACTOR TO DEMOLISH ALL REMAINING DEVICES AFTER APPROVAL FROM ARLINGTON COUNTY.
2. ALL LOCATIONS UNDER TABLES SHALL BE TERMINATED IN BOXES.
3. TELECOM CONTRACTOR SHALL PROPERLY TONE AND TEST ALL LOCATIONS AND PROVIDE CABLING CERTIFICATION.
4. TELECOM CONTRACTOR SHALL LABEL ALL CABLES AT EACH TERMINATION USING BROTHER PTOUCH, DYMO RHINO PRO, OR OTHER LABEL PRINTER. LABELS SHALL NOT BE HANDWRITTEN.



1 T101 TELECOM ROOM 4103A
SCALE: 1/4"=1'-0"

MTFA architecture
3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

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PROJECT # 21085

DATE:	ISSUE:
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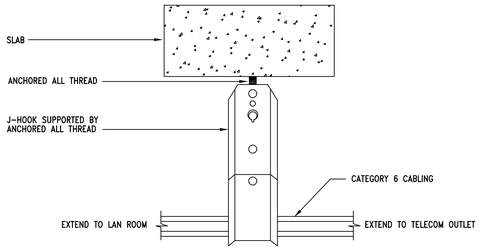
10/6/2023	Permit Revision 1 △
12/12/2023	Permit Resubmission △

DRAWN: BJH
CHECKED: BJH
SCALE: 1/8" = 1'-0"

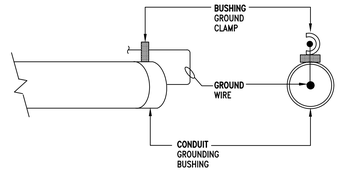
SHEET TITLE:
TELECOMMUNICATIONS PLAN

SHEET #
T101



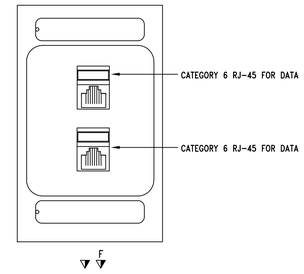
1 T201 J-HOOK MOUNTING DETAIL

NOT TO SCALE



2 T201 GROUND WIRE TO CONDUIT BONDING

NOT TO SCALE



3 T201 TYPICAL 2-PORT FACEPLATE DETAIL

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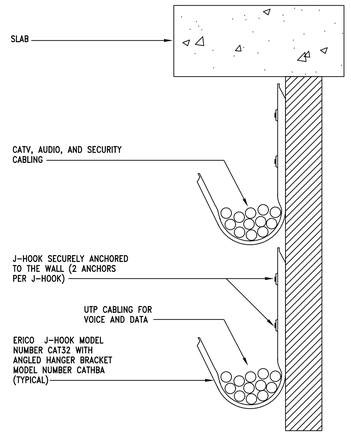
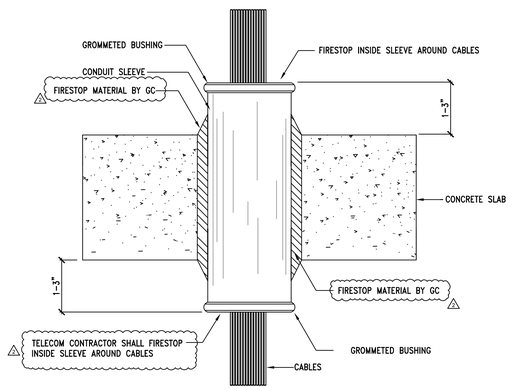


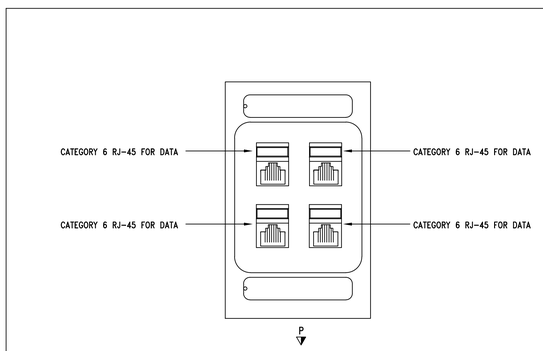
4 T201 WALL MOUNTED J-HOOK DETAIL

NOT TO SCALE



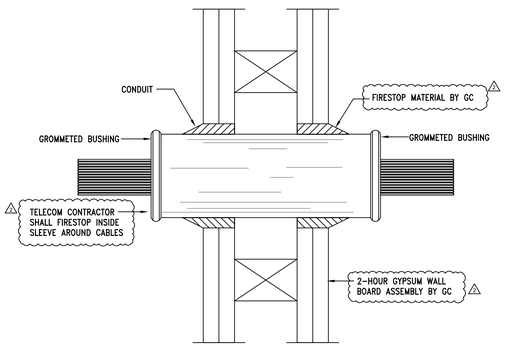
5 T201 CONCRETE WALL/FLOOR SLEEVE DETAIL

NOT TO SCALE



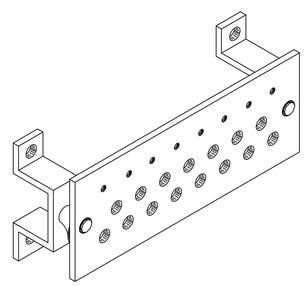
6 T201 TYPICAL 4-PORT FACEPLATE DETAIL

NOT TO SCALE



7 T201 FIRESTOPPING FOR GYPSUM BOARD WALLS

NOT TO SCALE



8 T201 GROUND BAR DETAIL

NOT TO SCALE

MTFA architecture
3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive, Suite 205
Reston, VA 20191
703.214.0557

Technology/AV/Security
Codetta LLC
7906 Richfield Road
Springfield, VA 22153
703.672.6730

Cost Estimator
Downey & Scott, LLC
6799 Kennedy Road, Unit F
Warrenton, VA 20187
540.347.5001

PROJECT # 21085

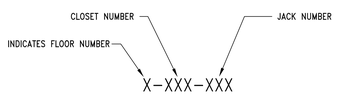
DATE:	ISSUE:
1/27/2023	Design Development
7/14/2023	Final Submission
8/16/2023	Permit Set
10/6/2023	Permit Revision 1 △
12/12/2023	Permit Resubmission △

DRAWN: BJH
CHECKED: BJH
SCALE: NONE

SHEET TITLE:
TELECOMMUNICATIONS DETAILS

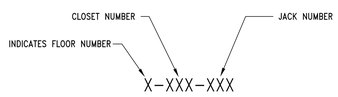
SHEET #
T201

NOTE: INSTALLER SHALL COORDINATE WITH TENANT FOR FINAL LABELING SCHEME



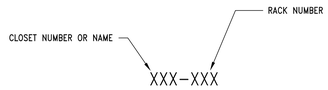
1 T202 **LABELING FOR PATCH PANELS AND WORK AREA OUTLETS**

NOTE: INSTALLER SHALL COORDINATE WITH TENANT FOR FINAL LABELING SCHEME



2 T202 **LABELING FOR COPPER PATCH CORDS**

NOTE: INSTALLER SHALL COORDINATE WITH TENANT FOR FINAL LABELING SCHEME.
RACKS SHOULD HAVE UNIQUE LABELS FROM LEFT TO RIGHT



3 T202 **LABELING FOR RACKS**

MTFA
architecture

3200 LEE HIGHWAY, ARLINGTON, VIRGINIA 22207
p. 703.524.6616 www.MTFA.net

4TH FLOOR COURTS RENOVATION

Arlington County

1425 N COURTHOUSE RD
ARLINGTON, VA 22201

Structural
Linton Engineering
46090 Lake Center Plaza, Suite 309
Potomac Falls, VA 20165
571.323.0320

MEP / FP
Ameresco
12001 Sunrise Valley Drive, Suite 205
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CHECKED: BJH
SCALE: NONE

SHEET TITLE:
TELECOMMUNICATIONS DETAILS

SHEET #
T202