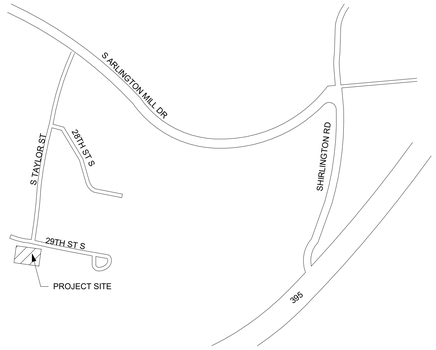


LEGEND COVER - SITE LOCATION MAP
1" = 400'-0"

REVISED ATTACHMENT C - SOLID WASTE + TE&O -INTERIOR RENOVATION

4300 S. 29TH STR. ARLINGTON, VA, 22206

OWNER:
ARLINGTONG COUNTY BOARD
2100 CLAVERDON BLVD
ARLINGTON, VA 222010
P: 703-228-4829

ARCHITECT:
ARCHITECTURE INCORPORATED
1902 CAMPUS COMMONS DRIVE
SUITE 101
RESTON, VA 20191
P: 703.476.3900

MPE:
INTERFACE ENGINEERING, INC.
2000 M STREET NW,
SUITE 270
WASHINGTON, DC 20036
P: 202-370-9515

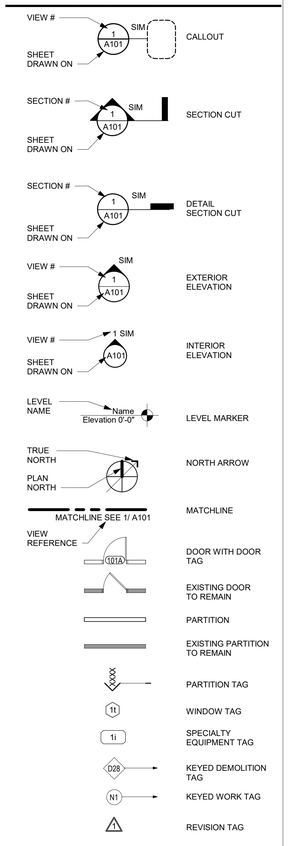
STRUCTURAL:
MCMULLAN & ASSOCIATES, INC
11800 SUNRISE VALLEY DRIVE
SUITE 430
RESTON, VA 20190
P: 703-556-0651

CIVIL:
TIMMONS GROUP
20110 ASHBROOK PLACE
SUITE 100
ASHBURN, VA 20147
P: 703-726-1342

ARCHITECTURAL / INTERIORS ABBREVIATIONS:

A	
&	AND
@	AT
AB	ANCHOR BOLT (or) AIR BARRIER
ABV	ABOVE
A/C	AIR CONDITIONING
ACM	ASBESTOS CONTAINING MATERIAL
ACOUS	ACOUSTIC(AL)
ACT	ACOUSTICAL CEILING TILE / PANEL
ADDM	ADDENDUM
ADD'N	ADDITION
ADJ	ADJUST(ABLE)
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
< (or) L	ANGLE (STEEL)
ANOD	ANODIZED
ANUN	ANNUNCIATOR
ANUN	ANNUNCIATOR
AP	ACCESS PANEL
APP'D	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT(IC)
AUTO	AUTOMATIC
AVG	AVERAGE
B	
B/O	BOTTOM OF
BC	BRICK COURSE(S)
BD	BOARD
BE	BOTTOM ELEVATION
BF	BOTH FACES
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM (or) BENCH MARK
BOTT	BOTTOM
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BRZ	BRONZE
BSMT	BASEMENT
BTW	BETWEEN
BUR	BUILT UP ROOFING
BW	BOTH WAYS
C	
CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CEM	CEMENT
CF/CI INSTALLED	CONTR FURNISHED / CONTR
CG	CORNER GUARD
CHAN	CHANNEL
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR (T)	COUNTER(TOP)
CO	CLEAR OPENING (or) CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT(ION)
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONT'D	CONTINUED
CONTR	CONTRACTOR
COR	CORNER
CORR	CORRIDOR
CORRUG	CORRUGATED
CPT	CARPET
CRS	COURSE(S)
CSK	COUNTERSUNK (-SINK)
CT	CERAMIC TILE
CTR	CENTER
CUST	CUSTODIAL
CUSTCL	CUSTODIAL CLOSET
CW	COLD WATER
D	
(D)	DRYER
DA	DOUBLE-ACTING
DBL	DOUBLE
DD	DECK DRAIN
DEMO	DEMOLISH (or) DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DFLCT	DEFLECTION
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPOSER (or) DISPENSER
DIV	DIVISION
DK	DARK
DL	DEAD LOAD
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
(DW)	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	
(E)	EXISTING
E	EAST
EA	EACH
EIFS	EXT INSUL AND FIN SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENG	ENGINEER(ING)
EQ	EQUAL
EQUIP	EQUIPMENT
E/W	EACH WAY
EWC	ELECTRIC WATER COOLER
EXCAV	EXCAVATED
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXPOS	EXPOSED
EXT	EXTERIOR
F	
FA	FIRE ALARM
FABR	FABRICATE
FC	FIRE CODE
F/C	FACE OF CONCRETE
F/F	FACE OF FINISH
F/M	FACE OF MASONRY
F/O	FACE OF
F/SH	FACE OF SHEATHING
F/S	FACE OF STUD
F/W	FACE OF WALL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
F-F	FACE TO FcoACE
FH	FLAT HEAD
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FIN	FINISH
FL	FLUSH OR FLOOR
FLASH	FLASHING
FLUOR	FLUORESCENT
FP	FIREPROOFING
FR	FRAME
FRMG	FRAMING
FRT	FIRE RETARDANT TREATED
FS	FULL SIZE
FT	FOOT OR FEET
FTG	FOOTING
FUR	FURRING
FUT	FUTURE
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GL	GLASS
GMMU	GLASS MESH MORTAR UNIT
GR	GUARDRAIL
GS	GRAVEL STOP
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H	
HB	HOSE BIBB
HC	ACCESSIBLE
HD	HEAD
HDBD	HARDBOARD
HM	HOLLOW METAL
HP	HIGH POINT
HDWR	HARDWARE
HDWD	HARDWOOD
HCWD	HOLLOW CORE WOOD DOOR
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATION and AIR CONDITIONING
HW	HOT WATER
I	
ID	INSIDE DIAMETER
INCAN	INCANDESCENT
INCL	INCLUDE(D) (ING)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
IWB	INTERACTIVE WHITE BOARD
J	
JB	JUNCTION BOX
JC	JANITOR CLOSET
JST	JOIST
JT	JOINT
K	
KIT	KITCHEN
KO	KNOCKOUT
KP	KICK PLATE
KRM	KEYED REMOVABLE MULLION
KS	KNEE SPACE
L	
LAB	LABORATORY
LAM	LAMINATE
LAT	LATERAL
LAV	LAVATAORY
LB (or #)	POUND
LH	LEFT HAND
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LONG'L	LONGITUDINAL
LP	LOW POINT
LT	LIGHT
LTG	LIGHTING
LTWT	LIGHT WEIGHT
LVR	LOUVER (S)
M	
MACH	MACHINE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MEMB	MEMBRANE
MFG	MANUFACTURING
MFR	MANUFACTURER
MGR	MANAGER
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
ML	METAL LATH
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MULL	MULLION
(MW)	MICROWAVE
N	
N	NORTH
NAT	NATURAL
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO (or #)	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	
(O)	OVEN
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/OI INSTALLED	OWNER FURNISHED / OWNER
OF/CI INSTALLED	OWNER FURNISHED / CONTR
OFD	OVER FLOW DRAIN
OFF	OFFICE
OH	OPPOSITE HAND (or) OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OVRHD	OVERHEAD
OZ	OUNCE
P	
P	PAINT
PART BD	PARTICLE BOARD
PAV	PAVING OR PAVEMENT
PB	PENCIL SHARPENER BLOCK (or) PORCELAIN BASE
PC	PIECE
PERP	PERPENDICULAR
PH	PENTHOUSE
PL	PROPERTY LINE
PL OR PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLT	PLATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PM	PROPOSED MODIFICATION
PNL	PANEL
PORT	PORTABLE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATE(D)
PROD	PRODUCT(IION)
PROJ	PROJECT
PROP	PROPERTY
PT	PRESSURE TREATED (or) PORCELAIN TILE (or) POST TENSIONED
PTD	PAPER TOWEL DISPENSER (or) PAINTED
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PWR	POWER
Q	
QT	QUARRY TILE
QUAL	QUALITY
QUAN	QUANTITY
R	
R	RISER
(RA)	RANGE
R/A	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RC	RESILIENT CHANNEL
RD	ROOF DRAIN (or) ROUND (or) ROAD
REBAR	REINFORCING BAR
RECEP	RECEPTACLE
REF	REFERENCE
(REF)	REFRIGERATOR
REFL	REFLECTED
REINF	REINFORCED
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISION OR REVERSE
RH	RIGHT HAND (or) ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
RTU	ROOFTOP UNIT
S	
S	SOUTH
S4S	SURFACED FOUR SIDES
SAB	SOUND ATTENUATION BLANKET
SAFB	SOUND ATTENUATION FIRE BATT
SAN	SANITARY
SC	SEALED CONCRETE (or) SOLDIER COURSE
SCWD	SOLID CORE WOOD DOOR
SCHED	SCHEDULE
SCHEM	SCHEMATIC
SD	SOAP DISPENSER
SECT	SECTION
SEL	SELECT
SERV	SERVICE
SF (or) SQFT.	SQUARE FEET
SFRM	SPRAY-APPLIED FIRE RESISTIVE MATL
SH	SHELF OR SHELVING
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SND	SANITARY NAPKIN DISPENSER
SOLS	SOLID SURFACE
SPEC'L	SPECIAL
SPECS	SPECIFICATION(S)
SPED	SPECIAL EDUCATION
SPGL	SPANDREL GLASS
SPKR	SPEAKER
SPL	SPLASH
SQ	SQUARE
SS	STAINLESS STEEL
S/S	SERVICE SINK
ST	STAIR
STC	SOUND TRANMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SURF	SURFACE
SURR	SURROUND
SUSP	SUSPEND(ED)
SYM	SYMMETRICAL
SYST	SYSTEM
T	
T	TREAD
TAN	TANGENT
TB	TOWEL BAR (or) TACK BOARD
T&B	TOP AND BOTTOM
TECH	TECHNICAL
TEL	TELEPHONE
TEMPD	TEMPERED
TEMP	TEMPORARY
THK	THICK(NESS)
TM	TRANSITION MEMB
T/O	TOP OF
TOC	TOP OF CURB (or) -CONCRETE
TOM	TOP OF MASONRY
TOP	TOP OF PAVEMENT
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPH	TOILET PAPER HOLDER
TV	TELEVISION
TWF	THRU WALL FLASH
TYP	TYPICAL
U	
(UCR)	UNDER COUNTER REFRIGERATOR
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
V	
VAR	VARIABLE (or) VARIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VNR	VENEER
VOL	VOLUME
VWC	VINYL WALL COVERING
W	
W	WEST
W/	WITH
(W)	WASHER
WAP	WIRELESS ACCESS POINT
WB	WHITE BOARD
WC	WATER CLOSET (or) WALL COVERING
WD	WOOD
WH	WATER HEATER (or) WALL HUNG
WB	WATER AND ICE BARRIER
W/IN	WITHIN
WLD	WELDED
W/O	WITHOUT
WP	WATERPROOF (or) WORKING POINT
WR	WATER RESISTANT
WRB	WEATHER RESISTANT BARRIER
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X	
X	TIMES (or) BY (AS IN 2X4)
Y	
YD	YARD
YR	YEAR

SYMBOLS LEGEND:



		PERMIT 01/07/2022	PERMIT REV 02/11/22	BID 08/08/2022			
COVER SHEET							
CS1.01	COVER SHEET	•	•	•			
CIVIL							
C0.0	COVER SHEET	•	•	•			
C1.0	GENERAL NOTES & DETAILS	•	•	•			
C1.1	GENERAL NOTES & DETAILS	•	•	•			
C2.0	EXISTING CONDITIONS AND DEMOLITION	•	•	•			
C3.0	EROSION AND SEDIMENT CONTROL - PHASE 1	•	•	•			
C3.1	EROSION AND SEDIMENT CONTROL - PHASE 2	•	•	•			
C3.2	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	•	•	•			
C3.3	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	•	•	•			
C4.0	SITE AND UTILITY PLAN	•	•	•			
C5.0	GRADING PLAN	•	•	•			
C5.1	DETAILED GRADING PLAN	•	•	•			
ARCHITECTURAL							
LS1.01	LIFE SAFETY	•	•	•			
AG1.01	GENERAL NOTES	•	•	•			
AG2.01	ACCESSIBILITY STANDARDS	•	•	•			
AD1.01	DEMOLITION FLOOR PLAN	•	•	•			
AD1.11	DEMO ROOF PLAN	•	•	•			
A1.01	FLOOR PLAN. EQUIPMENT SCHEDULE	•	•	•			
A1.10	ROOF PLAN	•	•	•			
A2.01	DOOR/ WINDOW SCHEDULE	•	•	•			
A2.02	DOOR DETAILS. TRANSITION DETAILS	•	•	•			
A4.11	WALL SECTIONS AND DETAILS	•	•	•			
A5.01	EXTERIOR DETAILS	•	•	•			
A5.02	EXTERIOR DETAILS	•	•	•			
A6.01	ENLARGED PLANS. INTERIOR ELEVATIONS	•	•	•			
A7.01	ELEVATIONS AND SECTIONS	•	•	•			
A8.01	PARTITION TYPES AND WALL TERMINATION	•	•	•			
A8.11	INTERIOR DETAILS	•	•	•			
A10.01	REFLECTED CEILING PLAN	•	•	•			
F2.01	FINISH PLAN AND SCHEDULE	•	•	•			
STRUCTURAL							
S001	DESIGN NOTES	•		•			
S101	ROOF FRAMING AND PARTIAL FOUNDATION PLANS	•		•			
S301	SECTIONS AND DETAILS	•		•			
S302	SECTIONS AND DETAILS	•		•			
MECHANICAL							
M0.01	SYMBOL LIST AND GENERAL NOTES - MECHANICAL	•		•			
MD1.01	DEMOLITION FLOOR PLAN - MECHANICAL	•		•			
M1.01	LEVEL 1 FLOOR PLAN - MECHANICAL	•		•			
M1.10	ROOF PLAN - MECHANICAL	•		•			
M4.01	DETAILS - MECHANICAL	•		•			
M6.01	SCHEDULES - MECHANICAL	•		•			
PLUMBING							
P0.01	SYMBOL LIST AND GENERAL NOTES - PLUMBING	•		•			
PD1.01	DEMOLITION FLOOR PLAN - PLUMBING	•		•			
P1.00	UNDERGROUND PLAN - PLUMBING	•		•			
P1.01	FLOOR PLAN - PLUMBING	•		•			
P1.10	ROOF PLAN - PLUMBING	•		•			
P4.01	DETAILS - PLUMBING	•	•	•			
P6.01	SCHEDULES PLUBMING	•	•	•			
ELECTRICAL							
E0.01	SYMBOL LIST AND GENERAL NOTES - ELECTRICAL	•		•			
ED1.01	DEMOLITION FLOOR PLAN - ELECTRICAL	•		•			
ED2.01	DEMOLITION FLOOR PLAN - LIGHTING	•		•			
E1.01	FLOOR PLAN - ELECTRICAL	•	•	•			
E1.10	ROOF PLAN - ELECTRICAL	•		•			
E2.01	FLOOR PLAN - LIGHTING	•		•			
E3.01	SCHEDULES - ELECTRICAL	•		•			
E4.01	SCHEDULES - ELECTRICAL	•	•	•			

architecture incorporated
1902 campus commons drive
suite 101
reston, virginia 20191
Tel: 703.476.3900
www.archinc.com

Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O - INTERIOR RENOVATION
4300 S. 29TH STR. ARLINGTON, VA, 22206

Project: 21124-01

Issued 01/07/22

BID SET

Revisions		
1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

COVER SHEET

Scale **As indicated**
Drawn MM
Checked CB

CS1.01

BID SET

ARLINGTON COUNTY
SOLID WASTE FACILITY SITE PLAN

ARLINGTON COUNTY, VIRGINIA
4300 29TH STREET SOUTH

TAX MAP: 29-014-011

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF JOHN H. GENTHNER FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE ORIGINAL DATA WAS OBTAINED ON THE FOLLOWING DATES: FEBRUARY 15 THRU FEBRUARY 27, 2019. THIS PLAT, MAP AND DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

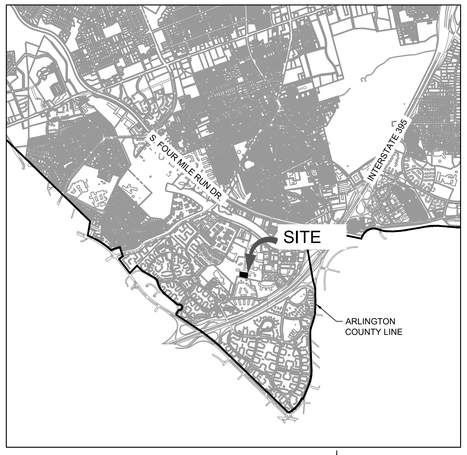
BEARINGS AND DISTANCES SHOWN HEREON MAY VARY FROM RECORD AND ARE SHOWN AS MEASURED.

HORIZONTAL DATUM: VIRGINIA STATE COORDINATE SYSTEM NAD83 (2011), AS DETERMINED BY GPS OBSERVATIONS.

VERTICAL DATUM: NAVD88, AS DETERMINED BY GPS OBSERVATIONS.

SUBSURFACE UTILITIES WERE LOCATED ON FEBRUARY 20 AND 21, 2019 IN REFERENCE TO MISS UTILITY TICKET NUMBER A903801896.

NO TITLE REPORT WAS FURNISHED. ADDITIONAL EASEMENTS MAY EXIST WHICH ARE NOT SHOWN.



VICINITY MAP

SCALE 1"=2,000'

0 2,000' 4,000'

SHEET INDEX

OWNER

COUNTY BOARD OF ARLINGTON
2100 CLARENDON BLVD
ARLINGTON, VIRGINIA 22201
CONTACT: JEREMY JENKINS
PHONE: (703) 228-4829
EMAIL: jrjenkins@arlingtonva.us

ENGINEER

TIMMONS GROUP
20110 ASHBROOK PL STE 100
ASHBURN, VIRGINIA 20147
CONTACT: LUKE FETCHO
PHONE: (703) 554-6712
FAX: (703) 726-1345
EMAIL: luke.fetcho@timmons.com

ARCHITECT

ARCHITECTURE INCORPORATED
1902 CAMPUS COMMONS DRIVE, SUITE 101
RESTON, VA 20191
CONTACT: RONALD MOORE
PHONE: (703) 476-3900
EMAIL: RonaldM@archinc.com

Responsible Land Disturber Certificate:

RLD #: _____

_____
Name

Site Plan Certificate:

I hereby certify that, to the best of my knowledge and belief, this plan is correct and complies with Chapter 6A of the Spotsylvania County Code, and that I am qualified and professional licensed in Virginia.

Va. License #: _____

_____
Signature Date

architecture
incorporated
1902 campus commons drive
suite 101
reston, virginia 20191
Tel: 703.476.3900
www.archinc.com

COMMONWEALTH OF VIRGINIA
WILLIAM T. VEST, III
Lic. No. 038725
08/08/2022
PROFESSIONAL ENGINEER

Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O - INTERIOR RENOVATION
4300 S. 29TH STR. ARLINGTON, VA. 22206

Project: 21124-01

Issued 01/07/22

BID SET

	Revisions	
1	PERMIT REV	02/11/22
2	BID SET	08/08/22

COVER SHEET

Scale SEE SHEET
Drawn CP
Checked BTV

C0.0

BID SET

PROJECT NARRATIVE

THIS SITE PLAN PROPOSES THE CONSTRUCTION OF A CONCRETE WALKWAY TO A NEWLY RECONSTRUCTED ADA ACCESSIBLE PARKING LOT. ALL EXISTING UTILITIES WILL BE RELOCATED AS NECESSARY.

SITE INFORMATION:

OWNER:
COUNTY BOARD OF ARLINGTON
2100 CLARENDON BLVD
ARLINGTON, VA 22201

PREPARER:
TIMMONS GROUP
20110 ASHBROOK PLACE, SUITE 100
ASHBURN, VIRGINIA 20147
PHONE: (703) 726–1342
FAX: (703) 726–1345

1. THE PARCEL IS FURTHER IDENTIFIED AS PARCEL B PROPERTY OF THE COUNTY BOARD OF ARLINGTON COUNTY.
2. THE BOUNDARY DATA SHOWN HEREON IS TAKEN FROM A PLATS OF RECORD AND AS RESEARCHED BY TIMMONS GROUP. THE TOPOGRAPHY SHOWN WAS FIELD TAKEN BY TIMMONS GROUP IN FEBRUARY OF 2019. NAD 83 VERTICAL DATUM HAS BEEN USED. THE CONTOURS SHOWN ARE 1 FOOT CONTOUR INTERVALS.
3. THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE DOES NOT NECESSARILY INDICATE ALL ENCUMBRANCES ON THE PROPERTY.
4. EXISTING UTILITIES HAVE BEEN FIELD LOCATED IN THE IMMEDIATE AREA OF THE PROJECT. OTHER UTILITIES ARE SHOWN FOR REFERENCE ONLY.
5. TELEPHONE, ELECTRIC, CABLE AND OTHER UTILITIES WILL BE EXTENDED TO THE BUILDING AND SHALL BE INSTALLED UNDERGROUND.
6. PROOF OF VSMP PERMIT MUST BE SUBMITTED TO OWNER/COUNTY PRIOR TO APPROVAL OF CONSTRUCTION PLANS AND/OR GRADING PLANS.
7. SOILS: REFER TO EXISTING CONDITIONS SHEET C2.0 FOR SOILS IDENTIFICATION.
8. THERE ARE NO WETLANDS, WATERS OF THE U.S. OR RPAs WITHIN THE PROJECT AREA.
9. THERE ARE NO KNOWN CEMETERIES OR HISTORIC SITE ON THIS PARCEL.

MATERIAL NOTES:

1. CORRUGATED PLASTIC PIPE (SMOOTH–BORED) FOR ROOF DRAINS SHALL BE ASTM F 405 OR AASHTO M 252 FOR 10" AND SMALLER, AND RCP FOR 12" AND LARGER. REFER TO VDOT STD. PB–1 FOR BEDDING DETAILS FOR CORRUGATED PLASTIC PIPE.
2. ALL CONCRETE PIPE SHALL BE CLASS III. REFER TO VDOT SPECIFICATIONS. REFER TO VDOT STD. PB–1 FOR BEDDING DETAILS.
3. ALL WATER AND SEWER STRUCTURES, PIPES, FITTINGS, ETC USED FOR CONSTRUCTION MUST BE ON THE ARLINGTON COUNTY UTILTIES ACCEPTABLE MATERIALS LIST, NO EXCEPTIONS.
4. ALL SANITARY SEWER PIPE SHALL BE DIP, CLASS 52, AND HAVE A INTERIOR COATING PURSUANT TO ARLINGTON COUNTY UTILTIES UTILITY STANDARDS MANUAL REQUIREMENTS.
5. WATERLINES SHALL BE CLASS 52 FOR ALL PIPE 12–INCHES OR LESS IN DIAMETER AND A MINIMUM OF CLASS 51 FOR ALL PIPES GREATER THAN 12–INCHES IN DIAMETER. ALL WATER LINES TO BE POLY–WRAPPED.
6. ALL WATER SERVICE PIPE LESS THAN 4" FOR CONNECTION FROM THE MAIN TO THE METER SHALL BE TYPE "K" COOPER.
7. ALL MANHOLES SHALL BE OF WATER TIGHT CONSTRUCTION AND TESTED IN PLACE PER VIRGINIA WATERWORKS REGULATIONS AND ARLINGTON COUNTY STANDARDS.

ROOF DRAIN NOTES:

1. ALL INDIVIDUAL BUILDING DOWNSPOUTS, FOUNDATION DRAINS, AND RETAINING WALL DRAINAGE ARE TO BE TIED INTO THE ROOF DRAIN COLLECTOR SYSTEM OR DIRECTLY INTO THE STORM SEWER SYSTEM OR AT A FACE OF CURB.
2. THE ROOF DRAIN COLLECTOR SYSTEM SHALL BE SMOOTH–LINED, CORRUGATED POLYETHYLENE PIPE (HANCOR HI–Q OR APPROVED EQUAL) LAID AT A MINIMUM SLOPE OF 1.04%.
3. PIPES CONNECTING TO INDIVIDUAL DOWNSPOUTS SHALL BE 6". ALL OTHER DRAIN PIPES SHALL BE SIZED AS INDICATED.
4. CLEANOUTS SHALL BE PROVIDED AS SHOWN ON THE PLANS AND AS REQUIRED BY THE LOCAL BUILDING CODE. CLEANOUTS SHALL BE PLACED AFTER EACH DOWNSPOUT CONNECTION.
5. CONNECTIONS INTO CONCRETE PIPES SHALL BE MADE WITH "INSERTA TEE" TYPE CONNECTORS.
6. CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN ADEQUATE OUTFALL FOR EXISTING ROOF DRAINS DURING CONSTRUCTION.

ZONING TABULATIONS:

PARCEL RPC: 29–014–011

OVERALL PARCEL AREA = 31.71 ACRES

OVERALL PROJECT AREA = 2,468 SQUARE FEET (0.05 ACRES)

EXISTING ZONING & USE: P–S, SOLID WASTE FACILITY

MIN LOT SIZE: NONE

MIN LOT WIDTH: NONE

MIN LOT DEPTH: NONE

PROPERTY NOT SUBJECT TO PROFFERS, NO PROVISIONAL OR OTHER SPECIAL USE PERMITS REQUIRED.

BUILDING SETBACK REQUIREMENTS:
FRONT: NONE
SIDE: NONE
REAR: NONE

ADA PARKING REQUIREMENTS (64 SPACES):
MIN. NUMBER OF ACCESSIBLE PARKING SPACES: 3 PROVIDED: 3
MIN. NUMBER OF VAN ACCESSIBLE PARKING SPACES: 1 PROVIDED: 2

VDOT STANDARD CONSTRUCTION NOTES

1. METHODS AND MATERIALS USED SHALL CONFORM TO CURRENT COUNTY AND VDOT STANDARDS AND SPECIFICATIONS.
2. ALL UTILITIES, INCLUDING ALL POLES, ARE TO BE RELOCATED AT THE CONTACTOR'S EXPENSE. COORDINATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. OPEN CUTTING OF PAVED OR SURFACE TREATED VDOT ROADS IS NOT PERMITTED. ALL UTILITIES WHICH WILL BE PLACED UNDER EXISTING STREETS ARE TO BE BORED OR JACKED. ANY EXCEPTIONS, DUE TO EXTENUATING CIRCUMSTANCES, ARE TO BE ADDRESSED AT THE PERMIT STAGE AND APPROVED BY THE OWNER.
4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS AND UTILITIES WHICH OCCUR AS A RESULT OF PROJECT CONSTRUCTION WITHIN OR CONTIGUOUS TO THE EXISTING RIGHT OF WAY.
5. A SMOOTH GRADE SHALL BE MAINTAINED FROM THE CENTERLINE OF THE EXISTING ROAD TO PROPOSED EDGE OF PAVEMENT TO PRECLUDE THE FORMING OF FALSE GUTTERS AND /OR THE PONDING OF ANY WATER IN THE ROADWAY.
6. STANDARD GUARDRAILS AND/OR HANDRAILS SHALL BE INSTALLED AT HAZARDOUS LOCATIONS AS DESIGNATED DURING FIELD REVIEW BY OWNERS INSPECTOR OR VDOT.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL. THE CONTRACTOR SHALL SUBMIT A SIGNING, STRIPING AND/OR SIGNALIZATION PLAN TO THE VDOT LAND DEVELOPMENT SECTION A MINIMUM OF THIRTY DAYS PRIOR TO PERMIT APPLICATION. THE DEVELOPER SHALL NOT COMMENCE CONSTRUCTION OF ANY PAVEMENT COURSE WITHOUT AN APPROVED STRIPING PLAN.
8. CBR TEST SHALL BE PERFORMED PRIOR TO DETERMINATION OF FINAL SUBGRADE ELEVATION. PAVEMENT SECTION IS BASED ON A CBR VALUE OF 10 UNLESS OTHERWISE NOTED. SOILS TEST OF SUBGRADE MUST BE SUBMITTED FOR ACTUAL DETERMINATION OF REQUIRED SUBBASE THICKNESS PRIOR TO CONSTRUCTION. ALL SUBGRADE TO BE COMPACTED TO 95% DENSITY AT 2% OF OPTIMUM MOISTURE CONTENT PER AASHTO–T99 METHOD. FINAL PAVEMENT DESIGN BASED ON THE ACTUAL CBR VALUES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. CONTRACTOR TO REQUEST CBR TESTS A MINIMUM ONE MONTH PRIOR TO PAVING OPERATIONS.
9. A 4" (MIN.) LAYER OF STONE IS REQUIRED BENEATH CURB AND GUTTER.
10. ADDITIONAL DITCH LININGS OR SILTATION AND EROSION CONTROL MEASURES SHALL BE PROVIDED, AT THE OWNER'S EXPENSE, AS DETERMINED NECESSARY BY VDOT AND/OR DCR DURING FIELD REVIEW.
11. OVERLAY OF EXISTING PAVEMENT SHALL BE MINIMUM OF 1.5" DEPTH; ANY COSTS ASSOCIATED WITH PAVEMENT OVERLAY, OR THE MILLING OF EXISTING PAVEMENT TO OBTAIN REQUIRED DEPTH, SHALL BE ASSUMED BY THE CONTRACTOR.
12. OWNER IS RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF ANY TRAFFIC SIGNAL INSTALLATION OR MODIFICATION WHICH WILL BE NECESSARY AS A RESULT OF DEVELOPMENT OF THIS SITE.
13. ALL RIGHT OF WAY DEDICATED TO PUBLIC USE SHALL BE CLEAR AND UNENCUMBERED.
14. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL SIDEWALKS WITHIN THE RIGHT OF WAY THAT DO NOT QUALIFY FOR VDOT MAINTENANCE.
15. TRAFFIC CONTROL DEVICES OR ADVISORY SIGNS, SUCH AS MULTIWAY STOPS, SPEED LIMITS, DEAF CHILD, CHILDREN AT PLAY, ETC., SHALL NOT BE INSTALLED UNLESS SPECIFICALLY SHOWN ON THESE PLANS OR A VDOT APPROVED REVISION. SHOULD UNAPPROVED SIGNS BE NOTED AT THE TIME OF VDOT INSPECTION, THE ROAD ACCEPTANCE PROCESS SHALL BE TERMINATED IMMEDIATELY AND NOT RECOMMENDED UNTIL A DETERMINATION IS MADE REGARDING THE APPROVAL OF ANY ADDITIONAL SIGNS. IMMEDIATE REMOVAL OF SUCH SIGNS SHALL NOT NEGATE FOR THE SUBMISSION OF A REVISION.
16. LANDSCAPING AND IRRIGATION SYSTEMS SHALL NOT BE INSTALLED WITHIN THE PUBLIC RIGHT OF WAY EXCEPT AS SHOWN ON THESE PLANS OR A VDOT APPROVED REVISION.

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE LATEST VERSION OF THE ARLINGTON COUNTY DESIGN AND CONSTRUCTION STANDARDS MANUAL, VIRGINIA STORM WATER MANAGEMENT HANDBOOK, ARLINGTON COUNTY SERVICE AUTHORITY WATER AND SEWER UTILITY STANDARDS MANUAL, AND THE STANDARDS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION.
2. ALL FILL, BASE AND SUBBASE MATERIAL SHALL BE COMPACTED TO 95% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY AASHTO T–99 METHOD A WITHIN PLUS OR MINUS 2% OF OPTIMUM MOISTURE FOR THE FULL WIDTH OF ANY DEDICATED RIGHT–OF–WAY.
3. SIDEWALKS AND TRAILS SHALL BE CONSTRUCTED ON A SUBGRADE COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT (AASHTO T–99).
4. CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF EXCAVATION. VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT INDICATED. IF THERE APPEARS TO BE A CONFLICT, AND UPON DISCOVERY OF ANY UTILITY NOT INDICATED, CALL "MISS UTILITY" AT 1–800–257–7777 (TOLL FREE).
5. ACQUIRE ANY AND ALL NECESSARY CONSTRUCTION PERMITS REQUIRED TO COMPLETE THE SITEWORK, AND FURNISH COPIES TO THE OWNER. ANY WORK DONE WITHIN THE VDOT RIGHT–OF–WAY REQUIRES A VDOT PERMIT.
6. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
7. ALL WORK SHALL BE SUBJECT TO INSPECTION BY DESIGNATED ARLINGTON COUNTY OFFICIALS. NOTIFY THE CHIEF INSPECTOR 48 HOURS PRIOR TO START OF WORK.
8. REFER TO ARCHITECTURAL / ELECTRICAL DRAWINGS FOR ROUTING OF UNDERGROUND WIRING FOR SITE LIGHTING.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND SCORING PATTERNS OF WALKWAYS AND PATIO AREAS.
10. PROVIDE ALL UTILITY LINES SUCH AS ELECTRIC, TELEPHONE, CATV, OR OTHER SIMILAR LINES UNDERGROUND.
11. IN ACCORDANCE WITH HANDICAP ACCESSIBILITY REQUIREMENTS, COMPLY WITH ALL APPLICABLE CODES AND REQUIREMENTS FOR ACCESSIBILITY FOR DISABLED PERSONS.
12. DRAIN ALL DISTURBED AREAS TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
13. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURES.
14. BURNING OF CONSTRUCTION OR DEMOLITION MATERIALS IS NOT PERMITTED ON SITE.
15. THE APPROVAL OF THESE PLANS SHALL IN NO WAY RELIEVE THE OWNER OF COMPLYING WITH OTHER APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
16. ALL TEST PITS SHALL BE PERFORMED 10 DAYS PRIOR TO CONSTRUCTION AND ANY DISCREPANCY IN THE RESULTS FORWARDED TO THE ENGINEER FOR A REDESIGN. SUCH REDESIGNS ARE SUBJECT TO OWNER APPROVAL.
17. CONTROLLED FILLS:
    A. CONTROLLED COMPACTION SHALL OCCUR IN ALL FILL SECTIONS FOR PAVEMENTS, TRENCHES FOR UTILITIES, AND IN ANY AREA DESIGNATED ON THE DRAWINGS.
    B. CONTROLLED FILLS MUST BE COMPACTED TO 95% DENSITY AS DETERMINED BY METHODS AS PER STANDARD PROCTOR AASHTO–T99 OR ASTM–D698. DENSITY MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER.
    C. CONTROLLED FILLS SHALL BE COMPACTED IN EIGHT (8) INCH LIFTS (LOOSE THICKNESS) TO THE SPECIFIED DENSITY. BEGINNING FROM THE EXISTING GROUND SURFACE. UNLESS OTHERWISE APPROVED IN WRITING BY A QUALIFIED SOILS ENGINEER.
    D. THE SURFACE AREA DIRECTLY BENEATH AREAS TO RECEIVE CONTROLLED FILLS OF LESS THAN FIVE (5) FEET IS TO BE DENUDED OF ALL VEGETATION AND SCARIFIED AND COMPACTED TO A DEPTH OF SIX (6) INCHES TO THE SAME DENSITY AS THE CONTROLLED FILL TO BE PLACED THEREON.
18. CONTRACTOR SHALL SUBMIT MATERIAL LIST FOR ALL WATER / SEWER IMPROVEMENTS TO ARLINGTON COUNTY UTILTIES FOR REVIEW AND APPROVAL PRIOR PURCASE/INSTALLAION.
19. ALL RETAINING WALLS 30" AND HIGHER TO HAVE 42" SAFETY RAILING. RAILING MATERIAL, STYLE AND COLOR TO BE APPROVED BY OWNER/ARCHITECT PRIOR TO INSTALLATION.
20. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

STORM SEWER CONSTRUCTION NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WHERE APPLICABLE TO THE CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
2. ALL CONCRETE SHALL BE CLASS A3 IF CAST IN PLACE, CLASS A4 IF PRECAST.
3. MANHOLES AND DROP INLETS SHALL BE CONSTRUCTED FROM INVERT TO TOP AS FOLLOWS:
    A. MANHOLES TO EIGHT FEET DEEP.
        - BLOCK CONSTRUCTION – MINIMUM EIGHT INCH WALLS.
        - POURED IN PLACE CONCRETE – MINIMUM EIGHT INCH WALLS AND NONREINFORCED.
        - PRECAST – MINIMUM EIGHT INCH WALLS IN CONJUNCTION WITH PRECAST THROAT AND PRECAST BASE SLAB.
        - PRECAST.
    B. MANHOLES OVER EIGHT FEET DEEP.
        - PRECAST.
        - POURED IN PLACE REINFORCED CONCRETE.
        - SPECIAL DESIGN, I.E., BENDS, PRECAST TEES, PRECAST BOXES, WYES.
4. DROP INLETS AND CURB INLETS SHALL HAVE STEPS. THE MAXIMUM DIMENSION FROM FINISH GRADE TO THE FIRST STEP IN THE INLET SHALL NOT EXCEED THREE FEET.
5. UNLESS STATED ON THE APPROVED PLANS, SYMMETRICAL CHANNELS SHALL BE PERFORMED IN THE INVERT OF ALL STRUCTURES ACCORDING TO VDOT STANDARDS IS–1 TO PREVENT STANDING OR PONDING OF WATER.
6. IF BLOCK CONSTRUCTION IS USED, THE INSIDE AND OUTSIDE WALLS, AS THEY ARE LAID, SHALL BE PLASTERED WITH MORTAR A MINIMUM OF 1/2" THICK.
7. ALL PRECAST DROP INLETS, CURB INLETS AND MANHOLES SHALL CONFORM TO ASTM C–478.
8. VDOT INLETS, WHERE PIPE SIZE IS LARGER THAN 48 INCHES I.D., REQUIRE A SPECIAL DESIGN. IN CASE OF SPECIAL DESIGN INLETS THAT DEVIATE FROM THE STANDARD, THE PRECAST MANUFACTURER OR DESIGN ENGINEER MUST SUBMIT FIVE COPIES OF DETAIL DRAWINGS TO VDOT FOR PROPER APPROVAL.
9. THE OPENING IN PRECAST STORM SEWER STRUCTURES FOR ALL SIZE PIPE SHALL BE A MINIMUM OF FOUR INCHES AND A MAXIMUM OF SIX INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE PIPE.
10. THE "H" DIMENSIONS SHOWN ON THE STANDARDS AND SPECIFIED ON THE PLANS WILL BE MEASURED FROM THE INVERT OF OUTFALL PIPE TO THE TOP OF THE STRUCTURE.
11. TWO (2) INCH DEEP HOLES SHALL BE PROVIDED IN ENDWALL WHERE DIRECTED BY THE INSPECTOR.
12. ALL PIPES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
13. ALL FILL BENEATH SEWER PIPES AND WATERLINES IS TO BE CONTROLLED FILL OR BETTER. CONTROLLED FILLS MUST BE COMPACTED TO 100% DENSITY AS DETERMINED BY AASHTO T99 OR ASTM d–698. DENSITY MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER. CONTROLLED FILLS SHALL BE COMPACTED IN EIGHT–INCH LIFTS (LOOSE THICKNESS) TO THE SPECIFIED DENSITY, BEGINNING FROM THE EXISTING GROUND SURFACE, UNLESS OTHERWISE APPROVED IN WRITING BY A QUALIFIED SOILS ENGINEER.
14. ALL FILL BENEATH MANHOLES IS TO BE SELECT FILL. SELECT FILL MATERIAL SHALL CONSIST OF #67 OR #78 STONE AND MUST BE COMPACTED TO 100% DENSITY AS DETERMINED BY AASHTO T99 OR ASTM d–698. DENSITY MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER. SELECT FILLS SHALL BE COMPACTED IN EIGHT–INCH LIFTS (LOOSE THICKNESS) TO THE SPECIFIED DENSITY, BEGINNING FROM THE EXISTING GROUND SURFACE, UNLESS OTHERWISE APPROVED IN WRITING BY A QUALIFIED SOILS ENGINEER.

LEGEND

	EXISTING TREES AND SHRUBS
	EXISTING EDGE OF TREE CANOPY
SAN	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
W	EXISTING WATER MAIN
G	EXISTING GAS LINE
	LIMIT OF DISTURBANCE
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
W	PROPOSED WATER MAIN
	PROPOSED FIRE CONNECTION
	PROPOSED ELECTRICAL CONDUIT
	PROPOSED COMMUNICATIONS
	PROPERTY LINE
1	PROPOSED DROP INLET & STRUCTURE NO.
	PROPOSED FIRE HYDRANT AND VALVE
	PROPOSED GATE VALVE
	PROPOSED WATER LINE FITTINGS
	PROPOSED ROOF DRAIN CLEAN OUT
	PROPOSED SANITARY CLEAN OUT
	PROPOSED MANHOLE
	PROPOSED BUILDING
240	EXISTING MAJOR CONTOUR
241	EXISTING MINOR CONTOUR
245	PROPOSED MAJOR CONTOUR
246	PROPOSED MINOR CONTOUR
	PROPOSED LIGHT DUTY ASPHALT SURFACE
	PROPOSED HEAVY DUTY ASPHALT SURFACE
	PROPOSED CONCRETE PAVEMENT
	TEST PIT

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COMMONWEALTH OF VIRGINIA
WILLIAM T. VEST, III
Lic. No. 038725
08/08/2022
PROFESSIONAL ENGINEER

Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O - INTERIOR RENOVATION
4300 S. 29TH STR. ARLINGTON, VA. 22206

Project: 21124-01

Issued 01/07/22

BID SET

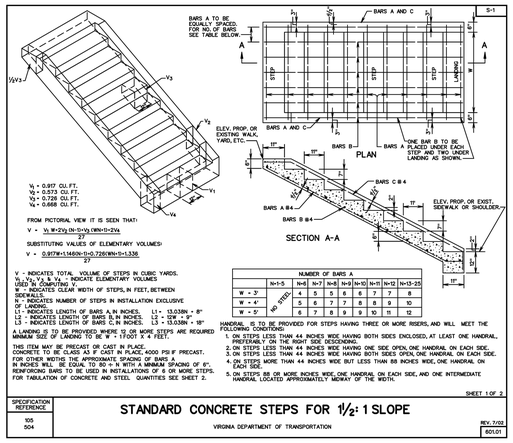
Revisions		
1	PERMIT REV	02/11/22
2	BID SET	08/08/22

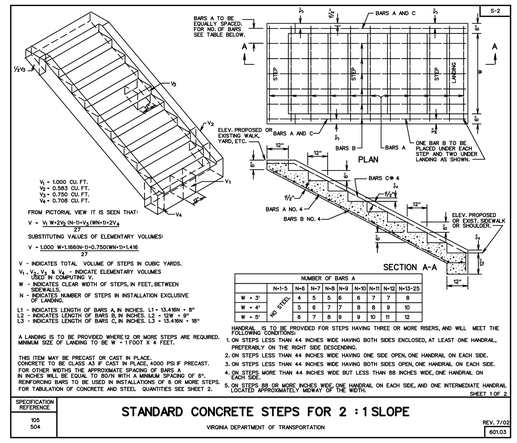
GENERAL NOTES & DETAILS

Scale SEE SHEET
Drawn CP
Checked BTV

C1.0

BID SET





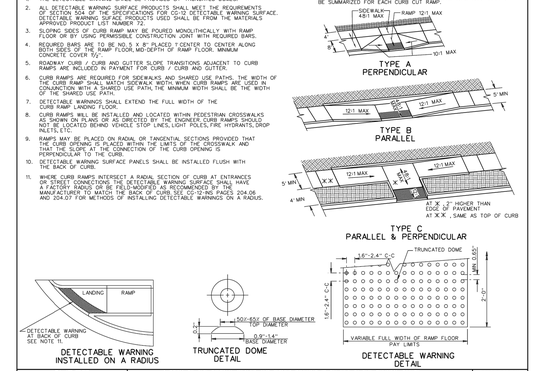
2016 ROAD & BRIDGE STANDARDS

CG-12

GENERAL NOTES:

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. ALL DETECTABLE WARNING SURFACE PRODUCTS SHALL MEET THE REQUIREMENTS OF ADA STANDARDS FOR ACCESSIBLE DESIGN, 36 CFR PART 1191, APPENDIX A. DETECTABLE WARNING SURFACE PRODUCTS USED SHALL BE FROM THE MATERIALS APPROVED PRODUCT LIST NUMBER 72.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
4. REQUIRED BARS ARE TO BE NO. 5 X 8' PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1½".
5. ROADWAY CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMPS ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
6. CURB RAMPS ARE REQUIRED FOR SIDEWALKS AND SHARED USE PATHS. THE WIDTH OF CURB RAMPS FOR SHARED USE PATHS SHALL BE 5' MINIMUM. WHEN USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
7. DETECTABLE WARNINGS SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP LANDING FLOOR.
8. CURB RAMPS WILL BE INSTALLED AND LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.CURB RAMPS SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES,LIGHT POLES,FIRE HYDRANTS,DROP INLETS, ETC.
9. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
10. DETECTABLE WARNING SURFACE PANELS SHALL BE INSTALLED FLUSH WITH THE BACK OF CURB.
11. WHERE CURB RAMPS INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR AT INTERSECTIONS, THE CURB RAMP FLOOR SHALL BE PLACED SO THAT THEY HAVE A 4 FOOT RADIUS OR BE FIELD MODIFIED AS RECOMMENDED BY MANUFACTURER TO MATCH THE BACK OF CURB. SEE CG-12-INS PAGES 204.06 AND 204.07 FOR METHODS OF INSTALLING DETECTABLE WARNINGS ON A RADIUS.

NOTE: COMPONENTS OF CURB RAMPS CONSIST OF THE FOLLOWING: HYDRAULIC CEMENT SIDEWALK (DEPTH IN INCHES, AREA IN SQUARE YARDS) CURB (LINEAR FEET), CURB & GUTTER (LINEAR FEET), DETECTABLE WARNING SURFACE (AREA IN SQUARE FEET). EACH OF THE ABOVE ITEMS IS A SEPARATE PAY ITEM AND SHOULD BE SUMMARIZED FOR EACH CURB CUT RAMP.



VDOT ROAD AND BRIDGE STANDARDS
SHEET 1 OF 5
REVISION DATE 04/19
204.01
A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.
CG-12 DETECTABLE WARNING SURFACE
(GENERAL NOTES)
VIRGINIA DEPARTMENT OF TRANSPORTATION
SPECIFICATION REFERENCE
105
502
504

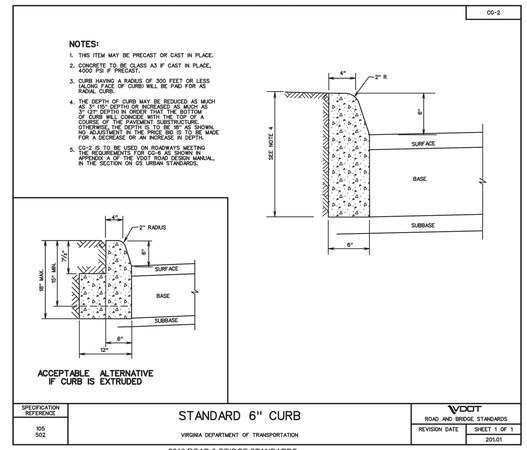
2016 ROAD & BRIDGE STANDARDS

2016 ROAD & BRIDGE STANDARDS

CG-2

NOTES:

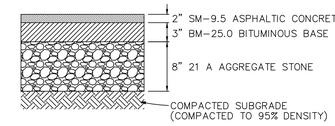
1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAID FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 2" OR INCREASED AS MUCH AS 4" OR AS MUCH AS 2" DEPTH IN ORDER THAT THE BOTTOM OF CURB WILL COINCIDE WITH THE TOP OF A PAVEMENT OR SHOULDER. UNLESS OTHERWISE SHOWN, THE DEPTH IS TO BE 6" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-2 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-6 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL, IN THE SECTION ON D3 URBAN STANDARDS.



SPECIFICATION REFERENCE
105
502
STANDARD 6" CURB
VIRGINIA DEPARTMENT OF TRANSPORTATION
VDOT ROAD AND BRIDGE STANDARDS
REVISION DATE
SHEET 1 OF 1
201.01

2016 ROAD & BRIDGE STANDARDS

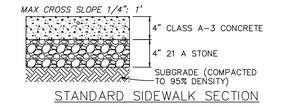
ONSITE PAVEMENT SECTIONS



ASPHALT PAVEMENT SECTION

NO SCALE

DENOTES HEAVY DUTY ASPHALT PAVEMENT ON PLANS (MATCH EXISTING PAVEMENT SECTION)

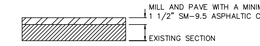


STANDARD SIDEWALK SECTION

NO SCALE

DENOTES CONCRETE PAVEMENT ON PLANS

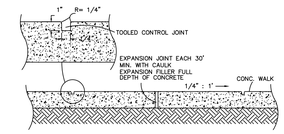
SIDEWALK SHALL BE CONSTRUCTED TO MINIMUM VDOT STANDARDS



MILL AND OVERLAY ASPHALT PAVEMENT SECTION

NO SCALE

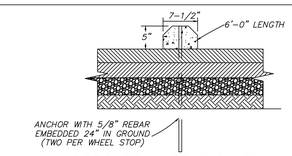
DENOTES MILL AND OVERLAY ASPHALT PAVEMENT ON PLANS



SIDEWALK AND CONTROL JOINT

NO SCALE

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR SIDEWALK SCORING PATTERN.

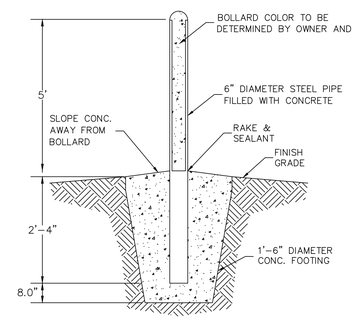


PRECAST WHEELSTOP DETAIL

NO SCALE

ABBREVIATIONS

CNC	CONCRETE	SDWK	SIDEWALK
EX.	EXISTING	MHD	DRAINAGE MANHOLE
F.F.	FINISHED FLOOR	SMH	SANITARY MANHOLE
GRND	GROUND	E/P	EDGE OF PAVEMENT
RCP	REINFORCED CONCRETE PIPE	T/C	TOP OF CURB
RFDR	ROOFDRAIN		



PIPE BOLLARD DETAIL

NO SCALE

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Project: 21124-01

Issued 01/07/22
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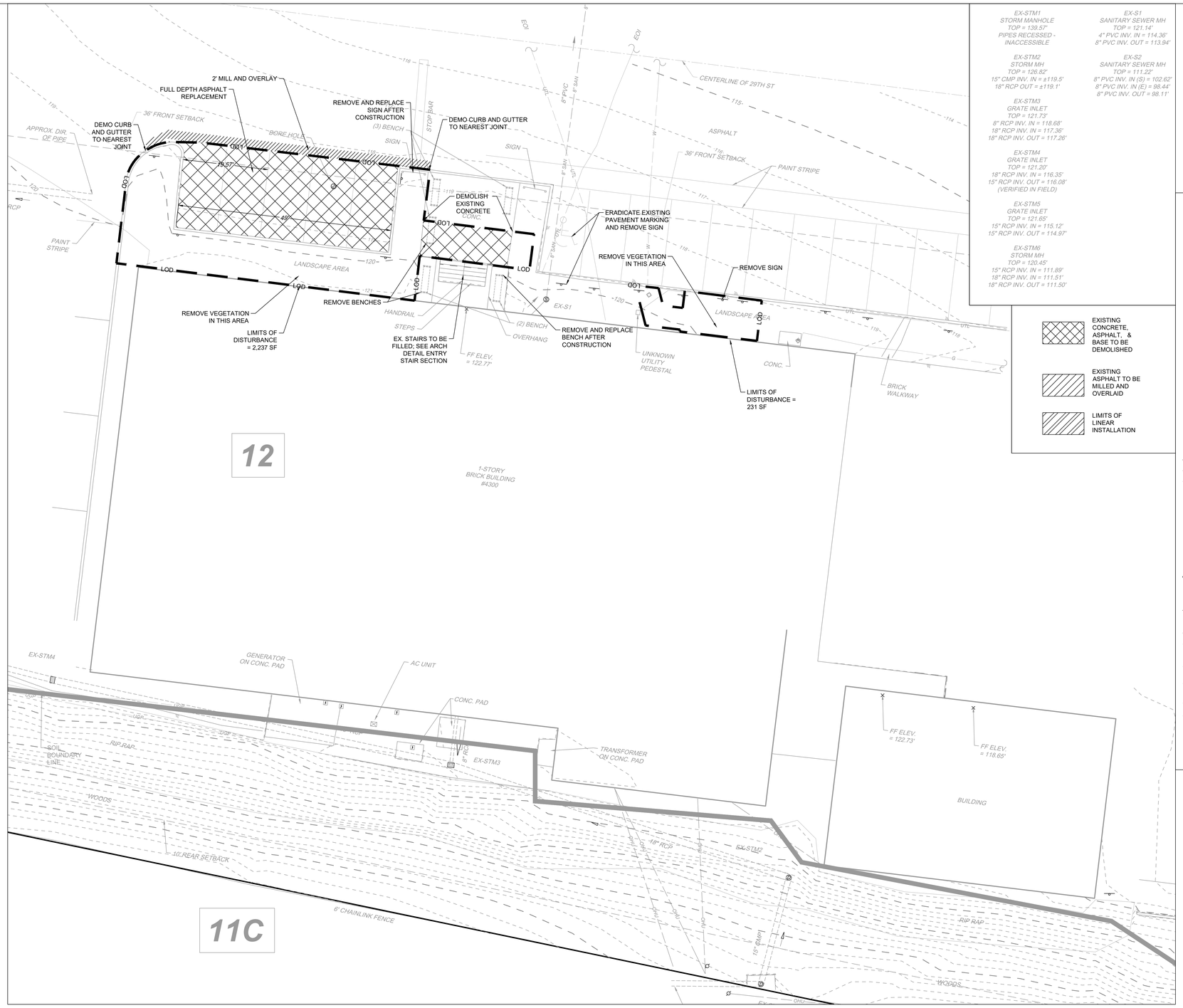
	Revisions	
1	PERMIT REV	02/11/22
2	BID SET	08/08/22

GENERAL NOTES & DETAILS

Scale SEE SHEET
Drawn CP
Checked BTV

C1.1

BID SET



EX-STM1
STORM MANHOLE
TOP = 139.57'
PIPES RECESSED - INACCESSIBLE

EX-STM2
STORM MH
TOP = 126.82'
15" CMP INV. IN = ±119.5'
18" RCP OUT = ±119.1'

EX-STM3
GRATE INLET
TOP = 121.73'
8" RCP INV. IN = 118.68'
18" RCP INV. IN = 117.36'
18" RCP INV. OUT = 117.26'

EX-STM4
GRATE INLET
TOP = 121.20'
18" RCP INV. IN = 116.35'
15" RCP INV. OUT = 116.08'
(VERIFIED IN FIELD)

EX-STM5
GRATE INLET
TOP = 121.65'
15" RCP INV. IN = 115.12'
15" RCP INV. OUT = 114.97'

EX-STM6
STORM MH
TOP = 120.45'
15" RCP INV. IN = 111.89'
18" RCP INV. IN = 111.51'
18" RCP INV. OUT = 111.50'

EX-S1
SANITARY SEWER MH
TOP = 121.14'
4" PVC INV. IN = 114.36'
8" PVC INV. OUT = 113.94'

EX-S2
SANITARY SEWER MH
TOP = 111.22'
8" PVC INV. IN (S) = 102.62'
8" PVC INV. IN (E) = 98.44'
8" PVC INV. OUT = 98.11'

EXISTING CONCRETE, ASPHALT, & BASE TO BE DEMOLISHED

EXISTING ASPHALT TO BE MILLED AND OVERLAID

LIMITS OF LINEAR INSTALLATION

SCALE 1"=10'
0 10' 20'

LEGEND

EXISTING

- STORM DRAIN MANHOLE
- SANITARY MANHOLE
- CABLE TV PEDESTAL
- TELECOM PEDESTAL
- LIGHT POLE
- ELECTRIC BOX
- ELECTRIC VAULT
- HYDRANT
- WATER METER
- WATER VALVE
- IRRIGATION SPRINKLER BOX
- SIMPLE SIGN
- BOLLARD
- EP EDGE OF PAVEMENT
- FL FLOW LINE
- SW SIDEWALK
- C&G CURB AND GUTTER
- HCR HANDICAP RAMP
- RCP REINFORCED CONCRETE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- EXISTING CONTOUR LINE
- CENTERLINE SWALE / DITCH
- TREELINE
- CONIFEROUS TREE
- DECIDUOUS TREE
- BENCHMARK
- PARKING COUNT
- HANDICAP PARKING
- PROPERTY CORNER TO BE SET
- PROPERTY MARKER FOUND (AS NOTED)
- PROPERTY LINE
- IPF IRON PIPE FOUND
- IRF IRON ROD FOUND
- EXISTING EASEMENT
- EXISTING STORM SEWER
- SAN EXISTING SANITARY
- G UNDERGROUND NATURAL GAS LINE
- W UNDERGROUND WATER LINE
- UGT UNDERGROUND CABLE TELEVISION LINE
- UGP UNDERGROUND POWER LINE
- UFO UNDERGROUND FIBER OPTIC LINE
- EOI END OF INFORMATION FOR UNDERGROUND UTILITY LINE - SIGNAL ENDED AT THIS LOCATION.

architecture incorporated
1902 campus commons drive
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Tel: 703.476.3900
www.archinc.com

COMMONWEALTH OF VIRGINIA
WILLIAM T. VEST, III
Lic. No. 038725
08/08/2022
PROFESSIONAL ENGINEER

Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O - INTERIOR RENOVATION
4300 S. 29TH STR, ARLINGTON, VA 22206

Project: 21124-01

Issued	01/07/22
BID SET	

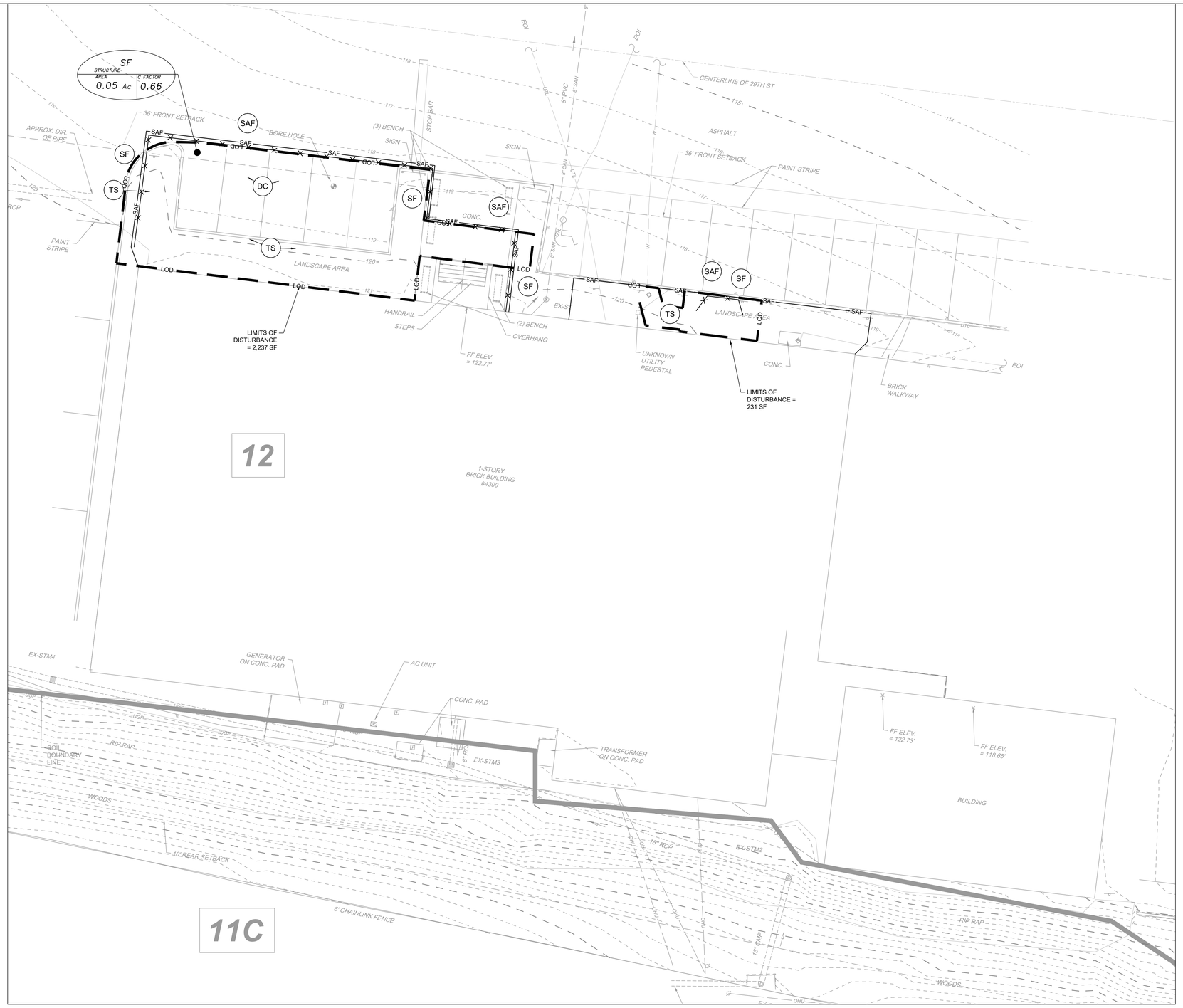
	Revisions	
1	PERMIT REV	02/11/22
2	BID SET	08/08/22

EXISTING CONDITIONS AND DEMOLITION

Scale SEE SHEET
Drawn CP
Checked BTV

C2.0

BID SET



SCALE 1"=10'

0 10' 20'

LEGEND

- PROPERTY BOUNDARY
- LOD — LIMITS OF CONSTRUCTION
- TEMPORARY CONSTRUCTION CHAIN LINK FENCE
- SOIL BOUNDARY
- 54 B — SOIL IDENTIFICATION
- DRAINAGE DIVIDE
- STR 8 / 0.21 Ac / 0.56 — DRAINAGE AREA LABEL

EROSION AND SEDIMENT CONTROL LEGEND (FOR ESC MEASURE DESCRIPTION, SEE SHEET C3.2)			
NO.	TITLE	KEY	SYMBOL
VAESCH 3.01	SAFETY FENCE	SAF	SAF
VAESCH 3.05	SILT FENCE	SF	
VAESCH 3.05	SUPER SILT FENCE	SSF	
VAESCH 3.07	STORM DRAIN INLET PROTECTION	IP	
VAESCH 3.31	TEMPORARY SEEDING	TS	TS
VAESCH 3.32	PERMANENT SEEDING	PS	PS
VAESCH 3.38	TREE PRESERVATION AND PROTECTION	TP	TP
VAESCH 3.39	DUST CONTROL	DC	DC
VAESCH 3.33	SODDING		
VAESCH 3.35	MULCHING		

NOTE:
1. TOTAL LIMITS OF DISTURBANCE = 2,468 SF

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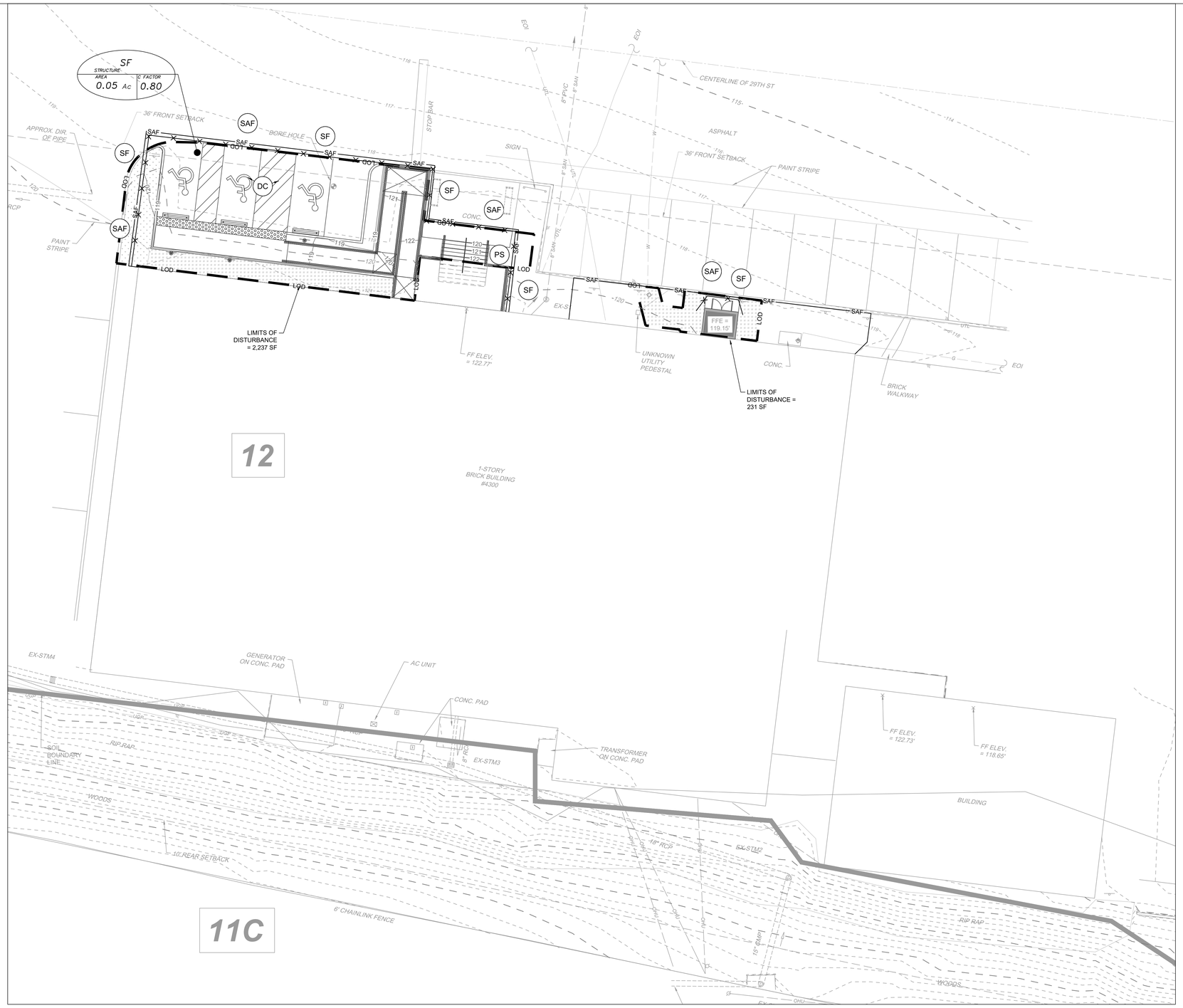
2	BID SET	08/08/22

EROSION AND SEDIMENT CONTROL - PHASE 1

Scale SEE SHEET
Drawn CP
Checked BTV

C3.0

BID SET



SCALE 1"=10'

0 10' 20'

LEGEND

- PROPERTY BOUNDARY
- LOD — LIMITS OF CONSTRUCTION
- TEMPORARY CONSTRUCTION CHAIN LINK FENCE
- SOIL BOUNDARY
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VAESCH 3.31	TEMPORARY SEEDING	TS	TS
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NOTE:
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BID SET

Revisions		
1	PERMIT REV	02/11/22
2	BID SET	08/08/22

EROSION AND SEDIMENT CONTROL - PHASE 2

Scale SEE SHEET
Drawn CP
Checked BTV

C3.1

BID SET

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE CONSTRUCTION OF A CONCRETE WALKWAY TO NEWLY RECONSTRUCTED ADA ACCESSIBLE PARKING LOT. ALL EXISTING UTILITIES WILL BE RELOCATED AS NECESSARY. THE TOTAL PARCEL AREA IS 31.71 AC (1,381,364 SF) OF WHICH APPROXIMATELY 0.05 AC (2,468 SF) WILL BE DISTURBED WITH THIS PROJECT.

EXISTING SITE CONDITIONS

THE SITE IS PRESENTLY DEVELOPED AS A SOLID WASTE FACILITY. THE SITE IS MODERATELY TO HEAVILY SLOPED. ALL CLEARING AND GRADING SHALL BE LIMITED TO THE AREAS OUTLINED ON THE SITE AND EROSION CONTROL PLANS. SLOPES RANGE FROM 1% TO 50%. EXISTING VEGETATION IS PRESENT THROUGHOUT THE SITE. THE SITE PRESENTLY DRAINS GENERALLY TO THE NORTH.

ADJACENT PROPERTY AREA

THE PROPOSED PROJECT IS BORDERED BY SOUTH ARLINGTON MILL DRIVE TO THE NORTH, MIXED USE SHOPPING AND RESIDENTIAL CENTER TO THE EAST, RESIDENTIAL TOWNHOUSES TO THE WEST, AND AN ELEMENTARY SCHOOL AND RESIDENTIAL TOWNHOUSES TO THE SOUTH.

OFF-SITE AREAS

THERE ARE NO OFF-SITE AREAS BEING DISTURBED WITH THIS PLAN. SHOULD THE NEED ARISE TO GRADE OFF-SITE, OR OBTAIN MATERIAL FROM A BORROW AREA, THE AREA MUST BE COVERED BY A VALID GRADING PERMIT.

SOILS

SEE THE EROSION AND SEDIMENT CONTROL NOTES SHEET (C3.3) FOR THE COUNTY SOILS MAPPING & THE COUNTY SOILS SUMMARY.

CRITICAL EROSION AREAS

SLOPES WITHIN THIS AREA ARE GREATER THAN 50% AND ARE CONSIDERED CRITICAL. THE SITE INSPECTOR SHALL HAVE THE AUTHORITY TO ADJUST OR REQUIRE ADDITIONAL EROSION MEASURES IF NEEDED TO PREVENT SEDIMENT FROM LEAVING THE DISTURBED AREAS.

EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK AND ARLINGTON COUNTY CODE SECTION 57. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE BY LOCAL AUTHORITIES HAVING JURISDICTION.

PERMANENT STABILIZATION

ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING SHALL BE IN ACCORDANCE WITH STD. & SPEC. 3.32, PERMANENT SEEDING. SEED TYPE SHALL BE AS SPECIFIED FOR "MINIMUM CARE LAWNS" AND "GENERAL SLOPES" IN THE HANDBOOK. MULCH (STRAW OR FIBER) SHALL BE USED ON ALL SEEDED SURFACES. IN ALL SEEDING OPERATIONS SEED, FERTILIZER AND LIME SHALL BE APPLIED PRIOR TO MULCHING.

STORM WATER RUNOFF CONSIDERATION

THIS PROJECT SITE DRAINS TO A STORMWATER PIPE NETWORK THAT HAS BEEN PREVIOUSLY DESIGNED AND CONSTRUCTED TO ACCOMMODATE THIS AS A DEVELOPED SITE. THE EXISTING STORM PIPES, AND OUTFALL CHANNELS HAVE PROVEN OUTFALL CAPACITY FOR THIS DEVELOPED SITE.

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER EACH RUN-OFF PRODUCING RAINFALL. THE FOLLOWING ITEMS SHALL BE CHECKED IN PARTICULAR:

1. CHECK THE SILT FENCE AFTER EVERY STORM EVENT TO ENSURE EFFECTIVE OPERATION AND REMOVE SEDIMENT WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
2. CHECK THE SILT FENCE BARRIER FOR UNDERMINING OR DETERIORATION OF THE FABRIC. REMOVE SEDIMENT WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALF WAY TO THE TOP OF THE BARRIER.
3. CHECK THE SEEDING AREAS TO ENSURE THAT A STAND OF GRASS IS MAINTAINED. FERTILIZE AND RESEED AS NEEDED.
4. SEE MINIMUM STANDARDS FOR ADDITIONAL INFORMATION.

STRUCTURAL PRACTICES

1. SAFETY FENCE 3.01
   SAFETY FENCE WILL BE INSTALLED TO PROHIBIT THE PEDESTRIAN ACCESS THROUGH THE SITE DURING CONSTRUCTION. THIS FENCE MAY BE RELOCATED AS NEEDED TO MAINTAIN CONSTRUCTION ACCESS THROUGHOUT CONSTRUCTION.
2. SILT FENCE BARRIER – 3.05
   SILT FENCE SEDIMENT BARRIERS SHALL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW AS INDICATED.
3. STORM DRAIN INLET PROTECTION – 3.07
   INLET PROTECTION SHALL BE INSTALLED TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.
4. TEMPORARY SEEDING – 3.31
   ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS.
5. PERMANENT SEEDING – 3.32
   ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS BY PLANTING SEED.
6. DUST CONTROL – 3.39
   REDUCING SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES.

VEGETATIVE PRACTICES

1. TOPSOILING (TEMPORARY STOCKPILE) – 3.30
   TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER SPREADING. STOCKPILE LOCATIONS SHALL BE LOCATED ONSITE AND SHALL BE STABILIZED WITH TEMPORARY SILT FENCE AND VEGETATION.
2. TEMPORARY SEEDING – 3.31
   ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR MORE THAN 30 DAYS SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING OF THOSE AREAS. SELECTION OF THE SEED MIXTURE SHALL DEPEND ON THE TIME OF YEAR IT IS APPLIED.

MANAGEMENT STRATEGIES

1. PROVIDE SEDIMENT TRAPPING MEASURES AS A FIRST STEP IN GRADING AND SEED AND MULCH IMMEDIATELY FOLLOWING INSTALLATION.
2. PROVIDE TEMPORARY SEEDING OR OTHER STABILIZATION IMMEDIATELY AFTER GRADING.
3. ISOLATE TRENCHING FOR UTILITIES AND DRAINAGE FROM DOWNSTREAM CONVEYANCES IN ORDER TO MINIMIZE PERIMETER CONTROLS.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THEY ARE NO LONGER REQUIRED TO COMPLY WITH THE CONTRACT DOCUMENTS OR STATE LAW.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

ES-1: UNLESS OTHERWISE INDICATED, CONSTRUCT AND MAINTAIN ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 9VAC25-840-10 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: ARLINGTON COUNTY HAVING JURISDICTION WILL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHODS AND EFFECTIVENESS OF THE EROSION CONTROL PLAN.

ES-3: PLACE ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO OR AS THE FIRST STEP IN CLEARING, GRADING, OR LAND DISTURBANCE.

ES-4: MAINTAIN A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFFSITE BORROW OR WASTE AREA), SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE ARLINGTON COUNTY INSPECTOR FOR REVIEW AND ACCEPTANCE.

ES-6: PROVIDE ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ARLINGTON COUNTY FIELD REPRESENTATIVE.

ES-7: ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND-DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT.

ES-8: DURING DEWATERING OPERATIONS, PUMP WATER INTO AN APPROVED FILTERING DEVICE.

ES-9: INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RUNOFF- PRODUCING RAINFALL EVENT. MAKE ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES IMMEDIATELY.

MINIMUM STANDARDS (PHASE I)

MS-1: APPLY PERMANENT SOIL STABILIZATION TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. APPLY TEMPORARY SOIL STABILIZATION WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. APPLY PERMANENT STABILIZATION TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

MS-2: STABILIZE OR PROTECT TEMPORARY SOIL STOCKPILES WITH SEDIMENT TRAPPING MEASURES (SUCH AS SILT FENCE). PROVIDE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL TRANSPORTED FROM THE PROJECT SITE.

MS-3: ESTABLISH A PERMANENT VEGETATIVE COVER ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IN THE OPINION OF THE ARLINGTON COUNTY INSPECTOR, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.

MS-4: CONSTRUCT CONSTRUCTION ENTRANCE, STREAM CONVEYANCE CHANNEL, TREE PROTECTION, SUPER SILT FENCE, CHECK DAMS, CULVERT INLET PROTECTION, PERIMETER DIKES, SEDIMENT BARRIERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND MAKE THESE MEASURES FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE OR TIMBERING TAKES PLACE.

MS-5: APPLY STABILIZATION MEASURES TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

MS-6: *CONTROL SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW MS-6: FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES TO ACCOMMODATE THE ANTICIPATED SEDIMENT LOADING FROM THE LAND- DISTURBING ACTIVITY. THE OUTFALL DEVICE OR SYSTEM DESIGN SHALL TAKE INTO ACCOUNT THE TOTAL DRAINAGE AREA FLOWING THROUGH THE DISTURBED AREA TO BE SERVED BY THE BASIN.*

MS-7: CONSTRUCT CUT AND FILL SLOPES IN A MANNER THAT WILL MINIMIZE EROSION. PROVIDE SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

MS-8: CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

MS-9: WHENEVER WATER SEEPS FROM A SLOPE FACE, PROVIDE ADEQUATE DRAINAGE OR OTHER PROTECTION.

MS-9A: NO E&S PHASE I CONTROLS SHALL BE REMOVED WITHOUT THE PRIOR APPROVAL OF THE ARLINGTON COUNTY FIELD REPRESENTATIVE.

MINIMUM STANDARDS (PHASE II)

MS-10: PROTECT ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

MS-11: BEFORE STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, PROVIDE ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING IN BOTH THE CONVEYANCE CHANNEL AND THE RECEIVING CHANNEL.

MS-12: WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, TAKE PRECAUTIONS TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. PROVIDE NONERODIBLE MATERIAL FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.

MS-13: WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, PROVIDE A TEMPORARY STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL.

MS-14: MEET ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES.

MS-15: STABILIZE THE BED AND BANKS OF A WATERCOURSE IMMEDIATELY FOLLOWING AFTER WORK IN THE WATERCOURSE IS COMPLETED.

MS-16: UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THESE STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

- *A.* OPEN NO MORE THAN 500 LINEAR FEET OF TRENCH AT ONE TIME.
- *B.* PLACE EXCAVATED MATERIAL ON THE UPHILL SIDE OF TRENCHES.
- *C.* FILTER EFFLUENT FROM DEWATERING OPERATIONS OR PASS THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGE IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFFSITE PROPERTY.
- *D.* MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- *E.* ACCOMPLISH RESTABILIZATION IN ACCORDANCE WITH THESE REGULATIONS.
- *F.* COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS.

MINIMUM STANDARDS (CONTINUED)

MS-17: WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, MAKE PROVISIONS TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, CLEAN THE ROAD THOROUGHLY AT THE END OF EACH DAY. REMOVE SEDIMENT FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORT TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

MS-18: REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION BUT ONLY AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, AND ONLY AFTER AUTHORIZED BY THE ARLINGTON COUNTY FIELD REPRESENTATIVE. PERMANENTLY STABILIZE TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES TO PREVENT FURTHER EROSION AND SEDIMENTATION.

MS-19: PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS:

A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.

B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:

- *(1)* THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION.
- *(2)(A)* NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS.
- *(B)* ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS.
- *(C)* PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:

- *(1)* IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR FREQUENCY STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR FREQUENCY STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OR
- *(2)* IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR FREQUENCY STORM IS CONTAINED WITHIN THE APPURTENANCES; OR
- *(3)* DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL.
- *(4)* PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION/RETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.

D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.

E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT CONDITION OF THE SUBJECT PROJECT.

F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.

H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.

I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR A DETENTION FACILITY.

J. IN APPLYING THESE STORMWATER RUNOFF CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDRAULIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.

K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZED IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.

L. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (I) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (II) DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND (III) REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE WHEN IT WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 62.1-44.15:54 OR 62.1- 44.15:65 OF THE ACT.

M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§62.1-44.15:24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH 9VAC25-870-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS.

N.
COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF MINIMUM STANDARD 19.

NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING ANY AND ALL EROSION CONTROL (EC) REQUIREMENTS FOR ANY LAND DISTURBING ACTIVITIES, INCLUDING BUT NOT LIMITED TO, ONSITE OR OFFSITE BORROW, ONSITE OR OFFSITE STOCKPILING OR DISPOSAL OF WASTE MATERIALS. BEFORE UNDERTAKING ANY LAND DISTURBING ACTIVITY FOR WHICH THE PLANS DO NOT SPECIFICALLY ADDRESS EROSION CONTROL, THE CONTRACTOR SHALL CONTACT THE ARCHITECHT/ENGINEER TO DETERMINE WHAT EC MEASURES ARE NECESSARY. THE CONTRACTOR SHALL PROVIDE A CERTIFIED, "RESPONSIBLE LAND DISTURBER" IN ACCORDANCE WITH SECTION 10.1-563, CODE OF VIRGINIA, AS REVISED.

EROSION CONTROL SEQUENCE
PHASE I

1. A PRE-CONSTRUCTION CONFERENCE IS MANDATORY BEFORE ANY WORK IS STARTED AT THE SITE. ARRANGE A MEETING WITH OWNER, ENGINEER AND ARLINGTON COUNTY FIELD MANAGER. 48 HOURS IS REQUIRED.
2. INSTALL LAYDOWN AREA TO INCLUDE SAFETY FENCE WITH GATE AND CONSTRUCTION ENTRANCE.
3. CLEAR AND GRUB AS NEEDED TO INSTALL PHASE I CONTROLS ONLY.
4. INSTALL SUPER SILT FENCE AND SAFETY FENCING PURSUANT TO THE PHASE I PLAN.
5. ARLINGTON COUNTY SITE INSPECTOR MUST APPROVE ALL E&S PERIMETER CONTROLS PRIOR TO ANY GRADING OPERATIONS.
6. TEMPORARILY STOCKPILE TOPSOIL (IF ANY) ON SITE. STABILIZE STOCKPILE WITH TEMPORARY SEEDING AND SURROUNDING SILT FENCE. STOCKPILE MUST BE SEEDED IF LEFT MORE THAN 30 DAYS.
7. PROCEED WITH DEMOLITION REQUIRED FOR BULK GRADING.
8. PROCEED WITH BULK GRADING AS SHOWN ON GRADING PLAN SHEET.

EROSION CONTROL SEQUENCE
PHASE II

1. PHASE I AND II MEASURES SHALL BE MAINTAINED OR REPLACED AS AREAS ARE GRADED AND STABILIZED. PERMISSION TO REMOVE ANY E&S CONTROLS SHALL BE OBTAINED BY CONTRACTOR FROM ARLINGTON COUNTY FIELD MANAGER
2. CONTINUE BUILDING AND UTILITY CONSTRUCTION.
3. STABILIZE PROBLEM E&S AREAS.
4. COMPLETE SITE WORK CONSTRUCTION INCLUDING STORM SEWER AND SIDEWALK. PLACE INLET PROTECTION ON STORM STRUCTURES AS THEY ARE INSTALLED AND BROUGHT TO GRADE.
5. FINE GRADING, PERMANENT SEEDING AND SOD PLACEMENT.
6. STABILIZE ANY REMAINING PROBLEM AREAS ON SITE.
7. REMOVE CONTRACTOR LAYDOWN AREA AND REESTABLISH STAND OF GRASS.
8. DO NOT REMOVE EROSION CONTROL MEASURES UNTIL ALL CONTRIBUTING AREAS HAVE BEEN PERMANENTLY STABILIZED. STABILIZE PROBLEM AREAS ON SITE.
9. THE ARLINGTON COUNTY E&S INSPECTOR HAS THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS IN THE FIELD AS SITE CONDITIONS WARRANT. NO E&S DEVICE SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF THE ARLINGTON COUNTY E&S INSPECTOR.

NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING ANY AND ALL EROSION CONTROL (EC) REQUIREMENTS FOR ANY LAND DISTURBING ACTIVITIES, INCLUDING BUT NOT LIMITED TO, ONSITE OR OFFSITE BORROW, ONSITE OR OFFSITE STOCKPILING OR DISPOSAL OF WASTE MATERIALS. BEFORE UNDERTAKING ANY LAND DISTURBING ACTIVITY FOR WHICH THE PLANS DO NOT SPECIFICALLY ADDRESS EROSION CONTROL, THE CONTRACTOR SHALL CONTACT THE ARCHITECHT/ENGINEER TO DETERMINE WHAT EC MEASURES ARE NECESSARY. THE CONTRACTOR SHALL PROVIDE A CERTIFIED, "RESPONSIBLE LAND DISTURBER" IN ACCORDANCE WITH SECTION 10.1-563, CODE OF VIRGINIA, AS REVISED.

GENERAL LAND CONSERVATION NOTES

1. NO DISTURBED AREA WILL REMAIN DENUDED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR OR HIS AGENT.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING. FIRST AREAS TO BE CLEARED ARE TO BE THOSE REQUIRED FOR THE PERIMETER CONTROLS.
3. ALL STORM AND SANITARY SEWER LINES NOT IN STREETS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL. NO MORE THAN 500 FEET ARE TO BE OPEN AT ANY ONE TIME.
4. ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 5 DAYS OF BACKFILL.
5. ALL TEMPORARY EARTH BERMS, DIVERSIONS AND SEDIMENT CONTROL DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER IMMEDIATELY AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
6. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY INLET PROTECTION DEVICES, MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
7. ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1ST, OR DISTURBED AFTER THAT DATE, SHALL BE MULCHED WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER-SEEDED NO LATER THAN MAY 15TH.
8. AT THE COMPLETION OF THE CONSTRUCTION PROJECT AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED. ARLINGTON COUNTY INSPECTOR TO APPROVE REMOVAL OF ALL TEMPORARY SILTATION MEASURES.

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W T Vest
WILLIAM T. VEST, III
Lic. No. 038725
08/08/2022

Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O -
INTERIOR RENOVATION
4300 S. 29TH STR. ARLINGTON, VA, 22206

Project: 21124-01

Issued 01/07/22
BID SET

△	Revisions	
1	PERMIT REV	02/11/22
2	BID SET	08/08/22

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

Scale SEE SHEET
Drawn CP
Checked BTV

C3.2

BID SET

_____ *date*

Qiangian Li, P.E.
ESC Program Administrator
Department of Environmental Services
2100 Clarendon Boulevard, Suite 813
Arlington, Virginia 22201

Re: Erosion and Sediment Control Permit Application for:

_____ *street address*

_____ *lot, block, section subdivision*

_____ *permit number*

Dear Mrs. Li:

I hereby certify that I accept the responsibilities of Responsible Land Disturber for the above referenced project. I understand that these responsibilities include:

1. Reviewing the erosion and sedimentation (E&S) plan for the project.
2. Walking the site prior to construction to identify critical areas.
3. Conducting a pre-construction briefing with earth moving and site contractors to present the E&S plan and highlight the presence of critical areas, the limits of clearing and the required E&S controls and tree protection measures to be installed. Call 703-228-0700 to schedule pre-construction meeting.
4. Regularly inspecting the site during construction to ensure that all E&S controls are functioning and are adequate to address erosion and sedimentation. Inspect the site 48 hours after a runoff-generating storm, and document the site inspections in accordance with the plan.
5. Reporting to the owner the presence inadequate or non-functioning E&S controls when they are observed.
6. Ensuring that temporary soil stabilization is applied within 7 days to areas denuded that will remain undisturbed for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
7. Calling (703) 228-0700 at least 80 hours before demolishing any structure.

I may be reached at _____ with questions about this plan or my execution of the duties of
telephone number
Responsible Land Disturber.

Sincerely,

_____ *signed*

_____ *name printed*

_____ *professional registration (type and number)*

1992 3.39

The following table list various adhesives and provides corresponding information on mixing and application:

TABLE 3.39-A

ADHESIVES USED FOR DUST CONTROL

Adhesive	Water Dilution (Adhesive: Water)	Type of Nozzle	Application Rate Gallons/Acre
Anionic Asphalt Emulsion	7:1	Coarse Spray	1,200
Latex Emulsion	12.5:1	Fine Spray	235
Resin in Water	4:1	Fine Spray	300
Acrylic Emulsion (Non-Traffic)	7:1	Coarse Spray	450
Acrylic Emulsion (Traffic)	3.5:1	Coarse Spray	350

Source: Va. DSWC

6. Stone - Stone can be used to stabilize roads or other areas during construction using crushed stone or coarse gravel (see CONSTRUCTION ROAD STABILIZATION, Std. & Spec. 3.3).

7. Barriers - A board fence, wind fence, sediment fence, or similar barrier can help to control air currents and blowing soil. Place barriers perpendicular to prevailing air currents at intervals of about 15 times the barrier height. Where dust is a known problem, existing windbreak vegetation should be preserved.

8. Calcium Chloride - This chemical may be applied by mechanical spreader as loose, dry granules or flakes at a rate that keeps the surface moist but not so high as to cause water pollution or plant damage. Application rates should be strictly in accordance with suppliers' specified rates.

DC

1992 3.31

Mulching

1. Seedings made in fall for winter cover and during hot and dry summer months shall be mulched according to MULCHING, Std. & Spec. 3.35, except that hydromulches (fiber mulch) will not be considered adequate. Straw mulch should be used during these periods.

2. Temporary seedings made under favorable soil and site conditions during optimum spring and fall seeding dates may not require mulch.

Re-seeding

Areas which fail to establish vegetative cover adequate to prevent rill erosion will be re-seeded as soon as such areas are identified.

TABLE 3.31-B

ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS

"QUICK REFERENCE FOR ALL REGIONS"

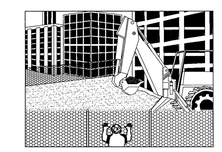
Planting Dates	Species	Rate (lbs./acre)
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100
Feb. 16 - Apr. 30	Annual Ryegrass (Lolium multi-florum)	60 - 100
May 1 - Aug 31	German Millet (Setaria italica)	50

Source: Va. DSWC

TS

1992 3.01

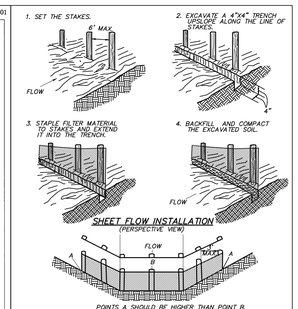
SAFETY FENCE



Source: Adapted from Conwed Plastics and VDOT Road and Bridge Standards

Plate 3.01-1

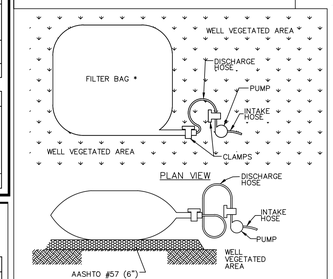
SAF



CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)
NO SCALE
SF 3.05-2

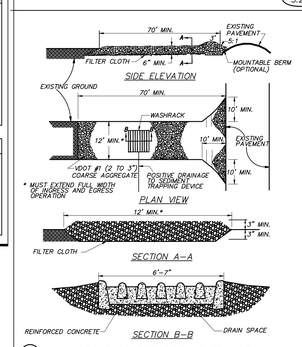
DESIGN CRITERIA

SLOPE	SLOPE STEEPNESS	SLOPE LENGTH (MAXIMUM)	SILT FENCE LENGTH (MAXIMUM)
0–10%	0–10:1	UNLIMITED	UNLIMITED
10–20%	10:1–5:1	200 FEET	1,500 FEET
20–33%	5:1–3:1	100 FEET	1,000 FEET
33–50%	3:1–2:1	100 FEET	500 FEET
50%+	2:1 +	50 FEET	250 FEET



NOTES:
1. NON-WOVEN GEOTEXTILE FILTER BAG WHICH RETAINS ALL SEDIMENT PARTICLES LARGER THAN 150 MICRONS.
2. PLACE FILTER BAGS ON STABLE OR WELL VEGETATED AREAS WHICH ARE FLATTER THEN 5% AND WHICH WILL NOT ERODE WHEN SUBJECTED TO BAG DISCHARGES.
3. CLAMP PUMP DISCHARGE HOSES SECURELY INTO FILTER BAGS.
4. LIMIT PUMPING RATE TO 1/2 THE MANUFACTURER'S MAXIMUM PUMPING RATE.
5. WHEN SEDIMENTS FILL 1/2 THE VOLUME OF A FILTER BAG, IMMEDIATELY REMOVE THAT BAG FROM SERVICE. PROPERLY DISPOSE OF SPENT BAGS WITH THEIR SEDIMENTS.
6. THE DISCHARGE FROM THE FILTER BAG SHOULD NOT PASS THROUGH A DISTURBED AREA OR CAUSE AN EROSION PROBLEM DOWN SLOPE.

DS SEDIMENT FILTER BAG FOR PUMPED WATER
N.T.S.
3.26



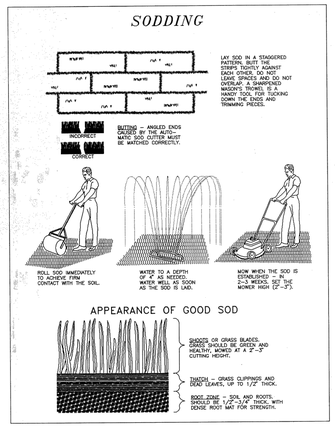
STONE CONSTRUCTION ENTRANCE
NO SCALE
CE 3.02-1

EROSION AND SEDIMENT CONTROL LEGEND (FOR ESC MEASURE DESCRIPTION, SEE SHEET C3.2)			
NO.	TITLE	KEY	SYMBOL
VAESCH 3.02	SAFETY FENCE	SAF	SAF
VAESCH 3.05	SUPER SILT FENCE	SF	SF
VAESCH 3.05	SUPER SILT FENCE	SSF	SSF
VAESCH 3.07	STORM DRAIN INLET PROTECTION	IP	IP
VAESCH 3.31	TEMPORARY SEEDING	TS	TS
VAESCH 3.32	PERMANENT SEEDING	PS	PS
VAESCH 3.38	TREE PRESERVATION AND PROTECTION	TP	TP
VAESCH 3.39	DUST CONTROL	DC	DC
VAESCH 3.33	SODDING		
VAESCH 3.35	MULCHING		

54 B — SOIL BOUNDARY
SOIL IDENTIFICATION

1992 3.33

SODDING



Source: Va. DSWC

Plate 3.33-1

1992 3.35

TABLE 3.35-A

ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES:	RATES: Per Acre	RATES: Per 1000 sq. ft.	NOTES:
Straw or Hay	1½ - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods.* Apply as slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

* When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.

Source: Va. DSWC

TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

TS

SEED

APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Iolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (Iolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME

- Apply 10-10-10 **fertilizer** at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
2 - Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs

TABLE 3.32-D
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR PIEDMONT AREA

PS

SEED[1]

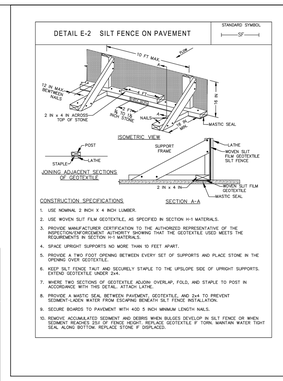
LAND USE	SPECIES	APPLICATION PER ACRE
Minimum Care Lawn (Commercial or Residential)	Tall Fescue[1] Perennial Ryegrass Kentucky Bluegrass[1]	95-100% 0-5% 0-5% TOTAL: 175-200 lbs.
High-Maintenance Lawn	Tall Fescue[1]	TOTAL: 200-250 lbs.
General Slope (3:1 or less)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2]	128 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue[1] Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop[2] Crownvetch[3]	108 lbs. 2 lbs. 20 lbs. 20 lbs. TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://pubdan.ces.vt.edu/html/Turf/turfpublications/publications/2.html
2 - Use seasonal nurse crop in accordance with seeding dates as stated below:
February 16th - April ..... Annual Rye
May 1st - August 15th ..... Foxtail Millet
August 16th - October ..... Annual Rye
November - February 15th ..... Winter Rye
3 - Substitute Sericea lespedeza for Crownvetch east of Farmville, VA (May through September use hulled seed, all other periods, use unhulled Sericea). If Flatpea is used, increase rate to 30 lbs./acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 -40

FERTILIZER & LIME

- Apply 10-20-10 **fertilizer** at a rate of **500** lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply **Pulverized Agricultural Limestone** at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 – 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at http://www.dcr.state.va.us/sw/e&s.htm#pubs



CONSTRUCTION SPECIFICATIONS
1. USE NOMINAL 2 INCH X 4 INCH LUMBER.
2. USE WOVEN SLIT FILM GEOTEXTILE; AS SPECIFIED IN SECTION H-1 MATERIALS.
3. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE ENGINEER OR OWNER, PRIOR TO USE, THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
4. SPACE UPRIGHT SUPPORTS NO MORE THAN 10 FEET APART.
5. PROVIDE A TWO FOOT OPENING BETWEEN EVERY SET OF SUPPORTS AND PLACE STONE IN THE OPENING OVER GEOTEXTILE.
6. KEEP SILT FENCE TAUT AND SECURELY STAPLE TO THE UPSLOPE SIDE OF UPRIGHT SUPPORTS. EXTEND GEOTEXTILE UNDER 2x4.
7. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN; OVERLAP, FOLD, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. ATTACH LATHE.
8. PROVIDE A MASTIC SEAL BETWEEN PAVEMENT, GEOTEXTILE, AND 2x4 TO PREVENT SEDIMENT-LADEN WATER FROM ESCAPING BENEATH SILT FENCE INSTALLATION.
9. SECURE BOARDS TO PAVEMENT WITH 400 5 INCH MINIMUM LENGTH NAILS.
10. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPAIR GEOTEXTILE IF TORN; MAINTAIN WATER TIGHT SEAL ALONG BOTTOM; REPLACE STONE IF DISPLACED.

SOILS SUMMARY:

UNIT MAPPING	POTENTIAL	SLOPE	MAPPING UNIT NAME	SOIL CHARACTERISTICS	RUNOFF CLASS	DEPTH TO ROCK GENERALLY EXPECTED	K
11C	D	8–15%	URBAN LAND–SASSAFRAS COMPLEX	SOILS ARE VERY DEEP AND GREATLY SLOPING AND WELL DRAINED. THE COMPOSITION IS 70% URBAN LAND AND 15% SASSAFRAS OR SIMILAR SOILS. SURFACE LAYER IS BROWN GRAVELLY SANDY LOAM 0"–6" THICK. SUBSOIL IS 40" THICK WITH UPPER PART 6"–10" YELLOWISH BROWN GRAVELLY SANDY CLAY LOAM, MIDDLE PART 10"–34" STRONG BROWN GRAVELLY SANDY CLAY LOAM, LOWER PART 34"–40" BROWNISH YELLOW GRAVELLY SANDY LOAM. SUBSTRATUM IS BROWNISH YELLOW GRAVELLY LOAMY SAND 40"–60" THICK.	MEDIUM	GREATER THAN 5'	0.57–1.98
12	D	2–15%	URBAN LAND–UDORTHENTS COMPLEX	SOILS ARE VERY DEEP AND NEARLY LEVEL TO VERY STEEP AND WELL DRAINED. THE COMPOSITION IS 85% URBAN LAND AND 15% UDORTHENTS AND SIMILAR SOILS.	MEDIUM		

CHECKLIST

7A-2

FOR EROSION AND SEDIMENT CONTROL PLANS

____ Minimum Standards - All applicable Minimum Standards must be addressed. (Ref. to Sheet C3.2)

NARRATIVE

X Project description - Briefly describes the nature and purpose of the land-disturbing activity, and the area (acres) to be disturbed. (Ref. to Sheets C1.0, C3.2)

X Existing site conditions - A description of the existing topography, vegetation and drainage. (Ref. to Sheet C3.2)

X Adjacent areas - A description of neighboring areas such as streams, lakes, residential areas, roads, etc., which might be affected by the land disturbance. (Ref. to Sheet C3.2)

X Off-site areas - Describe any off-site land-disturbing activities that will occur (including borrow sites, waste or surplus areas, etc.). Will any other areas be disturbed? (Ref. to Sheet C3.2)

X Soils - A brief description of the soils on the site giving such information as soil name, mapping unit, erodibility, permeability, depth, texture and soil structure. (Ref. to Sheet C2.0, C3.3)

X Critical areas - A description of areas on the site which have potentially serious erosion problems (e.g., steep slopes, channels, wet weather/ underground springs, etc.). (Ref. to Sheet C3.2)

X Erosion and sediment control measures - A description of the methods which will be used to control erosion and sedimentation on the site. (Controls should satisfy minimum standards in Chapter 3.) (Ref. to Sheet C3.2)

X Permanent stabilization - A brief description, including specifications, of how the site will be stabilized after construction is completed. (Ref. to Sheet C3.2)

X Stormwater runoff considerations - Will the development site cause an increase in peak runoff rates? Will the increase in runoff cause flooding or channel degradation downstream? Describe the strategy to control stormwater runoff. (Ref. to Sheet C3.2)

X Calculations - Detailed calculations for the design of temporary sediment basins, permanent stormwater detention basins, diversions, channels, etc. Include calculations for pre- and post-development runoff.

7A-2 (continued)

SITE PLAN

X Vicinity map - A small map locating the site in relation to the surrounding area. Include any landmarks which might be helpful in locating the site. (Ref. to Sheet C0.0)

X Indicate north - The direction of north (a relation to the site. (Ref. All Plan Sheets)

X Limits of clearing and grading - Areas which are to be cleared and graded. (Ref. Sheets C2.0–C5.1)

X Existing contours - The existing contours of the site. (Ref. to Sheet C2.0)

X Final contours - Changes to the existing contours, including final drainage patterns. (Ref. to Sheet C5.0, C5.1)

X Existing vegetation - The existing tree lines, grassed areas, or unique vegetation. (Ref. to Sheet C2.0)

X Soils - The boundaries of different soil types. (Ref. to Sheet C2.0)

X Existing drainage patterns - The dividing lines and the direction of flow for the different drainage areas. Include the size (acreage) of each drainage area. (Ref. to Sheet C3.0)

X Critical erosion areas - Areas with potentially serious erosion problems. (See Chapter 6 for criteria.)

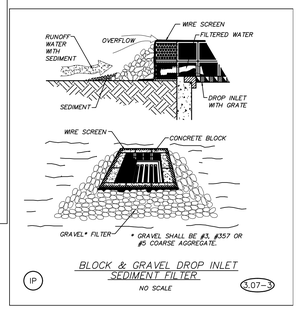
X Site Development - Show all improvements such as buildings, parking lots, access roads, utility construction, etc. (Ref. to Sheets C4.0)

X Location of practices - The locations of erosion and sediment control and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of the E&S Handbook. (Ref. to Sheets C3.0–C3.2)

____ Off-site areas - Identify any off-site land-disturbing activities (e.g., borrow sites, waste areas, etc.). Show location of erosion controls. (Is there sufficient information to assure adequate protection and stabilization?) (N/A)

X Detail drawings - Any structural practices used that are not referenced to the E&S Handbook or local handbooks should be explained and illustrated with detail drawings. (Ref. to Sheets C3.1–C3.2)

X Maintenance - A schedule of regular inspections and repair of erosion and sediment control structures should be set forth. (Ref. to Sheet C3.1–C3.2)



IP 3.07-3

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08/08/2022
PROFESSIONAL ENGINEER

Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O - INTERIOR RENOVATION
4300 S. 29TH STR., ARLINGTON, VA. 22206

Project: 21124-01

Issued	01/07/22
BID SET	

Revisions		
1	PERMIT REV	02/11/22
2	BID SET	08/08/22

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

Scale SEE SHEET
Drawn CP
Checked BTV

C3.3

BID SET

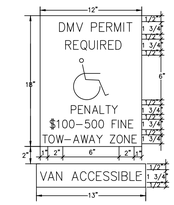
SCALE 1"=10'

0 10' 20'

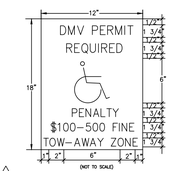
LEGEND

- PROPERTY BOUNDARY
- LOD — LIMITS OF CONSTRUCTION
- TEMPORARY CONSTRUCTION CHAIN LINK FENCE
- BOLLARD
- PROPOSED SIGN
- SIDEWALK SEE SHEET C1.1 FOR DETAIL
- ASPHALT PAVEMENT SEE SHEET C1.1 FOR DETAIL
- EDGE MILLING SEE SHEET C1.1 FOR DETAIL
- DETECTABLE WARNING SURFACE (SEE SHEET C1.1)
- SOD (PER VAESCH 3.33)
- WEED BARRIER WITH MULCH (PER VAESCH 3.35)
- MULCH (PER VAESCH 3.35)

NOTE:
1. TOTAL LIMITS OF DISTURBANCE = 2,468 SF
2. SIGNS TO BE MOUNTED ON BOLLARD SLEEVE.



A VAN ACCESSIBLE HANDICAPPED SIGN DETAIL



B HANDICAPPED SIGN DETAIL

1. THE BACKGROUND SHALL BE OF WHITE COLORED REFLECTIVE MATERIAL. THE BACKGROUND SHALL BE OF WHITE COLORED REFLECTIVE MATERIAL.
2. POSTING OF SIGNS: EACH SIGN SHALL BE MOUNTED WITH THE BOTTOM OF THE LOWEST SIGN NO LESS THAN 60 INCHES ABOVE THE PARKING SURFACE AND THE BOTTOM OF THE HIGHEST SIGN NO MORE THAN 7 FEET ABOVE THE PARKING SURFACE.

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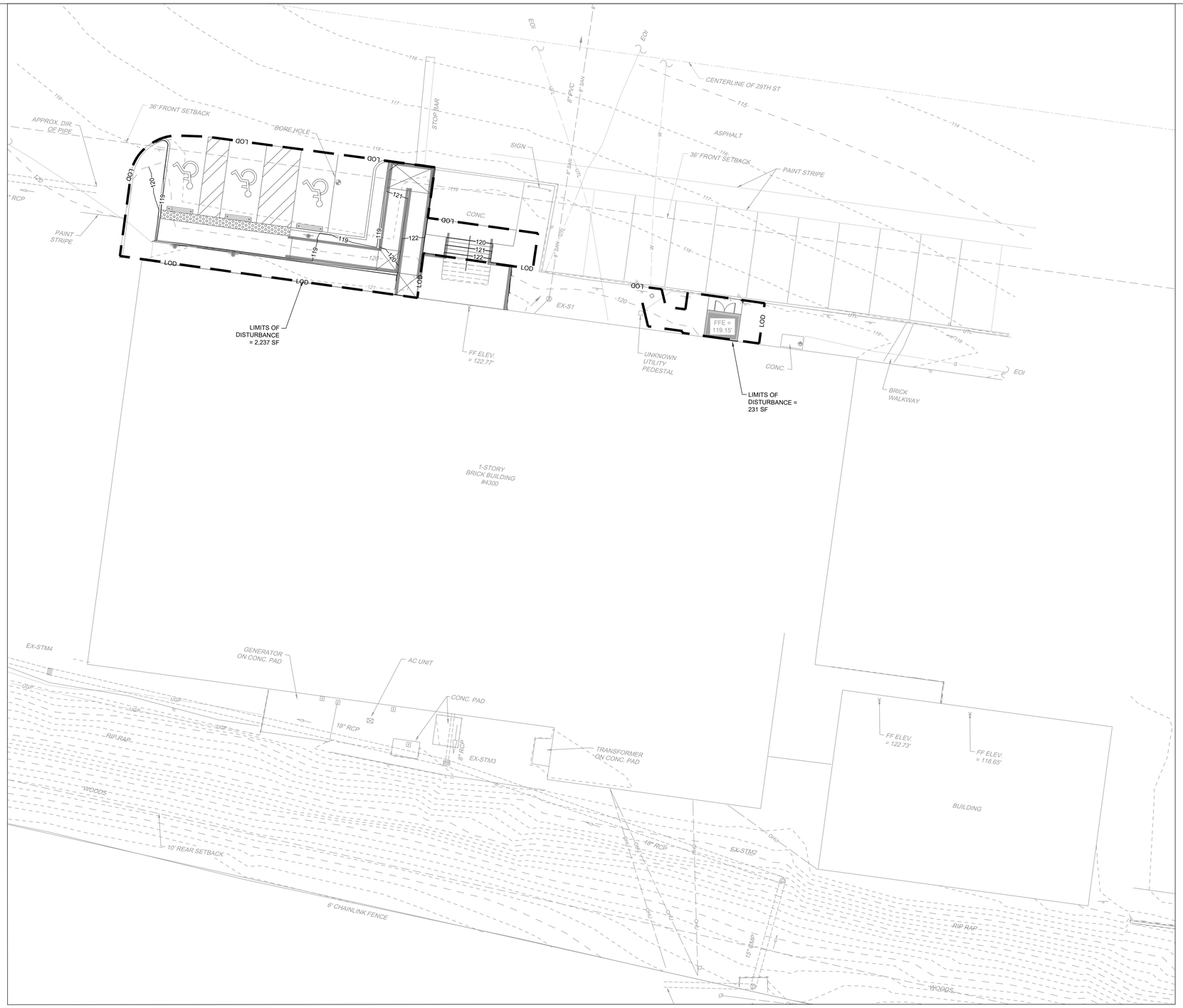
SITE AND UTILITY PLAN

Scale SEE SHEET
Drawn CP
Checked BTV

C4.0

BID SET



SCALE 1"=10'

0 10' 20'

LEGEND

- PROPERTY BOUNDARY
- LOD — LIMITS OF CONSTRUCTION
- TEMPORARY CONSTRUCTION CHAIN LINK FENCE
- STORM SEWER (RCP)
- STORM SEWER (CMP)
- STORM SEWER MANHOLE
- DI STORM SEWER INLET
- XX — STORM SEWER STRUCTURE LABEL

NOTE:
1. TOTAL LIMITS OF DISTURBANCE = 2,468 SF

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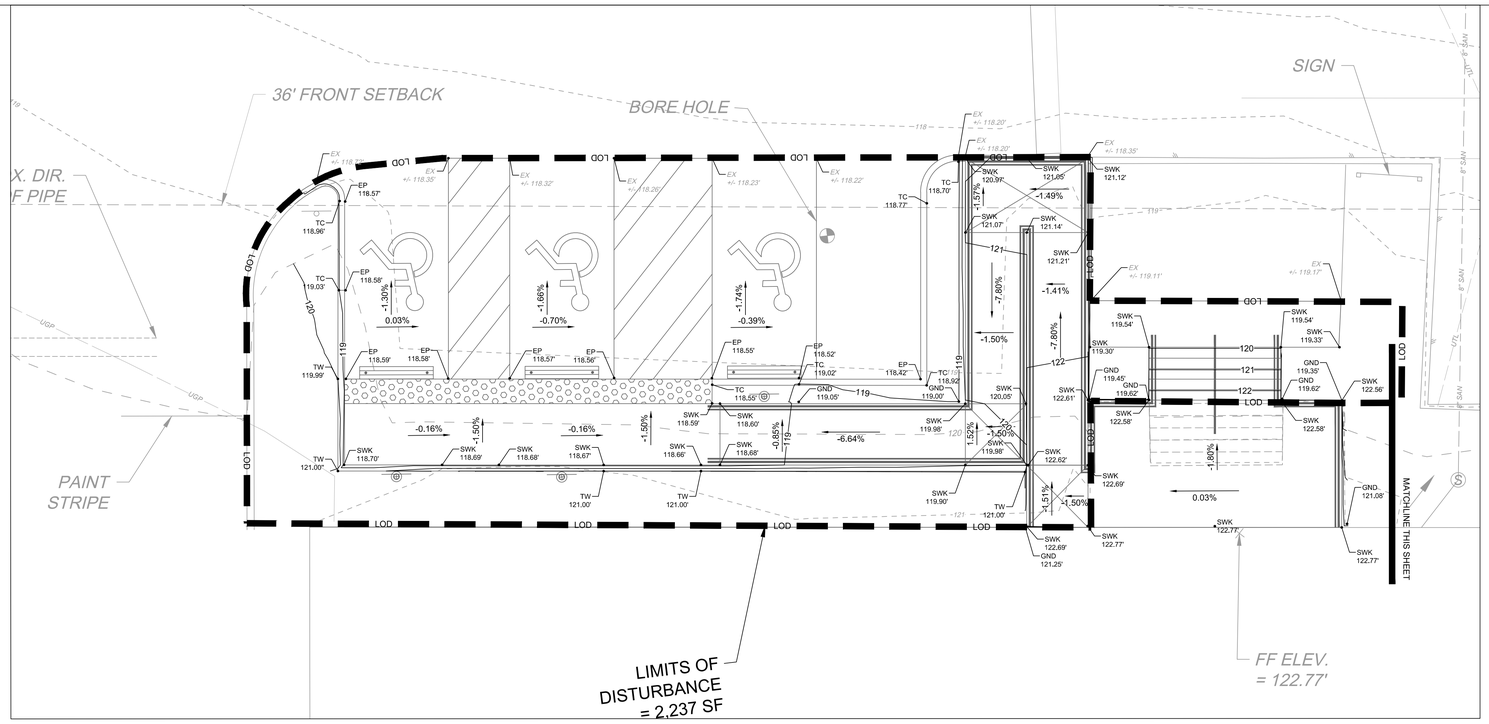
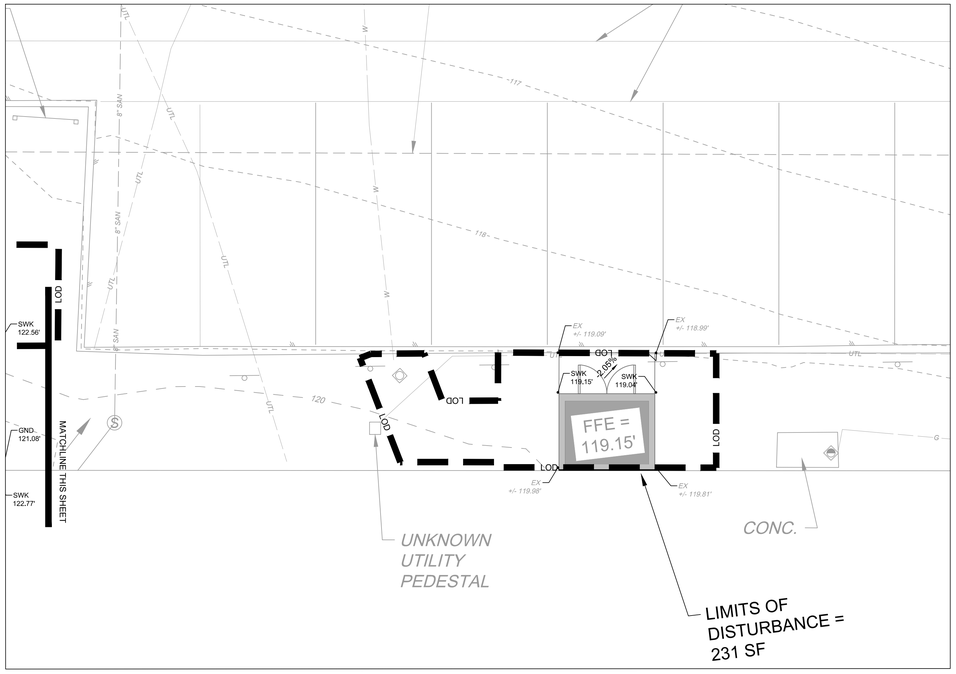
GRADING PLAN

Scale SEE SHEET
Drawn CP
Checked BTV

C5.0

BID SET





SCALE 1"=5'

0 5' 10'

LEGEND

- PROPERTY BOUNDARY
- LOD — LIMITS OF CONSTRUCTION
- TEMPORARY CONSTRUCTION CHAIN LINK FENCE

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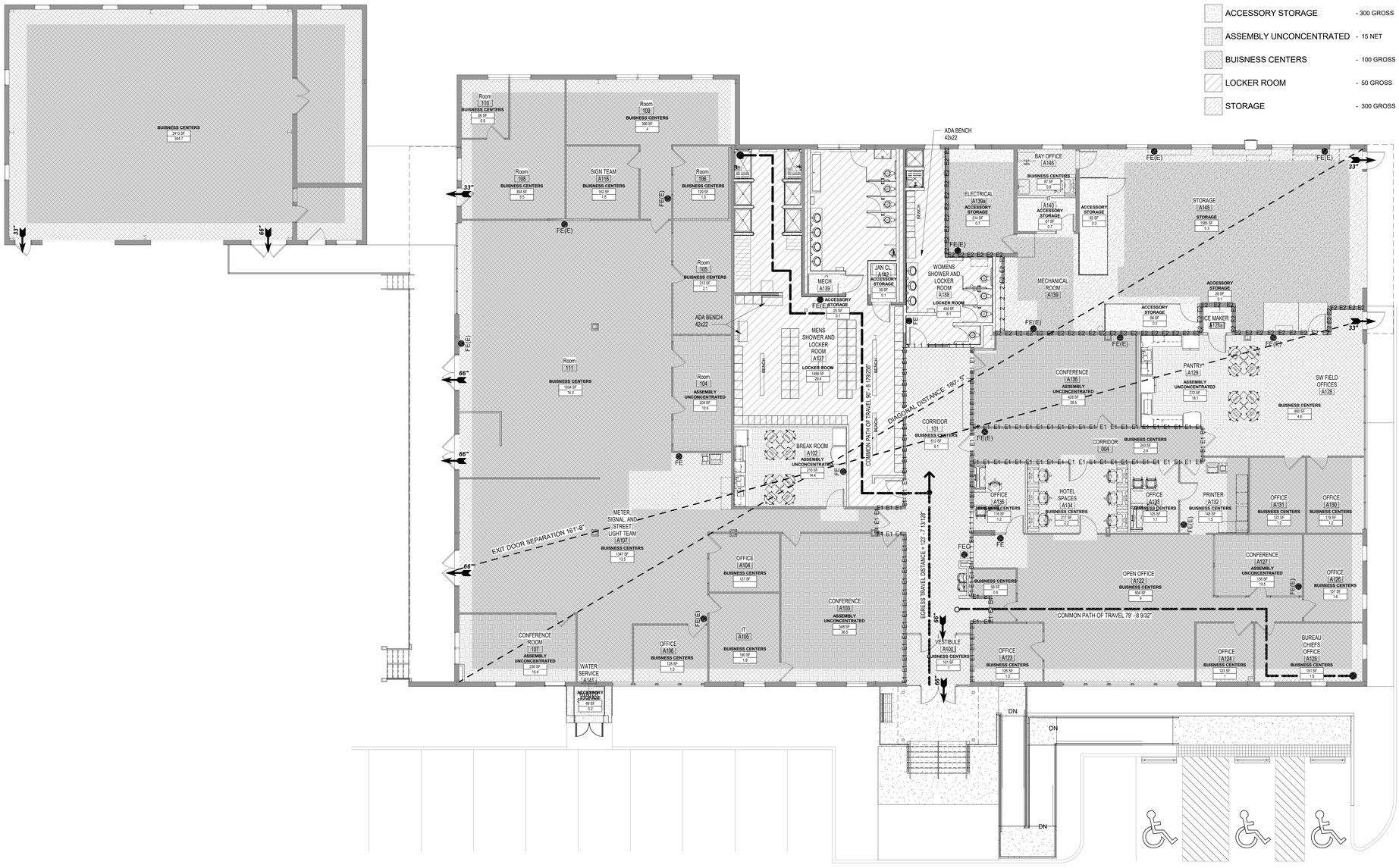
DETAILED GRADING PLAN

Scale SEE SHEET
Drawn CP
Checked BTV

C5.1

BID SET



1 LIFE SAFETY AREA PLAN
1/8" = 1'-0"

FUNCTION OF SPACE

ACCESSORY STORAGE	- 300 GROSS
ASSEMBLY UNCONCENTRATED	- 15 NET
BUISNESS CENTERS	- 100 GROSS
LOCKER ROOM	- 50 GROSS
STORAGE	- 300 GROSS

OCCUPANCY SUMMARY

FUNCTION OF SPACE	AREA	NUMBER OF OCCUPANTS
Level 1		
ACCESSORY STORAGE	590 SF	2.6
ASSEMBLY UNCONCENTRATED	2056 SF	137.5
BUISNESS CENTERS	11048 SF	87.7
LOCKER ROOM	1873 SF	37.5
STORAGE	1585 SF	5.3
Grand total	17153 SF	270.6

BUILDING DATA

PROJECT ADDRESS	
4300 S. 29th ST. Arlington, VA 22206	
GENERAL DESCRIPTION	
Multiple small renovations to an existing 1 story building. Includes a new pantry, entry stairs, IT closet, office space, entry ramp, and water service closet as well as renovations to the existing lockers rooms. No increase in occupant load.	
APPLICABLE CODES	
2015 VEBC (IEBC)	
2015 VCC (IBC)	
2015 VECC (IECC)	
2015 IFC	
2015 VFGC (IFGC)	
2015 VPC (IPC)	
2014 VMC (IMC)	
2014 NEC	
ICC A117.1-2009	
ORIGINAL CONSTRUCTION	
EXISTING BUILDING COMPLIANCE:	MOST OF THE ALTERATIONS DO NOT AFFECT THE PRIMARY FUNCTION. AREA OF ALTERATION IS LESS THAN 50% OF THE BUILDING AREA = LEVEL 2 ALTERATION. TOTAL WORK AREA OF LEVEL 2 ALTERATION: 5,395 SF
ORIGINAL BUILDING BUILT:	2012
ORIGINAL BUILDING CODE:	Virginia Uniform Statewide Building Code 2012
USE GROUP (SECTION 308.3.2)	
MIXED USE, SEPARATED	B, S-2 STORAGE
CONSTRUCTION TYPE (SECTION 602)	
NONCOMBUSTIBLE	IIB
BUILDING AREA	
BUILDING AREA FIRST FLOOR (EXISTING) GROUP B:	16,920 SF
	1,910 SF
GROUP S-2:	
BUILDING ADDITION	49 SF
TOTAL BUILDING AREA	18,879 SF
ALLOWABLE AREA	
PER TABLE 506.2	GROUP B = 23,000 SF ; GROUP S-2 = 26,000 SF
AREA MODIFICATION PER 506.2.3: Aa=[At+(NS x If) x 2	N/A
FRONTAGE INCREASE (PER 506.3)	
It=[F/P-0.25]W/30	GROUP B = 17,250 SF ; GROUP S-2 = 19,500 SF
TOTAL ALLOWABLE AREA	
ALLOWABLE AREA FACTOR + ALLOWABLE INCREASE FOR FRONTAGE	GROUP B = 40,250 SF ; GROUP S-2 = 45,500 SF
TOTAL ALLOWABLE AREA :	42,250 SF
BUILDING HEIGHT / NUMBER OF STORIES	
NUMBER OF STORIES (ALLOWABLE / PROVIDED) PER TS04.4	3 STORIES / 1 STORIES
BUILDING HEIGHT (ALLOWABLE/ PROVIDED	55'-0" / 14'-11"
FIRE AND SMOKE ALARM	
-	YES
FIRE PROTECTION SYSTEM (SPRINKLER)	
-	NO
FIRE RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS (RATING) TABLE 601 (RATING / DESIGN)	
PRIMARY STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
EXTERIOR NON-LOAD BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOOR CONSTRUCTION + SECONDARY MEMBERS	0 HR
ROOF CONSTRUCTION + SECONDARY MEMBERS	0 HR
MISCELANEOUS FIRE RESISTANCE REQUIREMENTS	
SHAFT ENCLOSURES ELEVATOR / MECHANICAL (713.4)	1 HR
EXIT STAIR ENCLOSURE (1023.2)	1 HR
CORRIDOR WALLS (T1020.1) (FIRE PARTITIONS)	1 HR
CORRIDOR DOOR FIRE RATING (T716.5)	20 MIN
CORRIDOR DOORS - SELF CLOSING REQUIRED (716.5.9)	YES
INCIDENTAL USE (509)	
N/A	
INTERIOR WALL & CEILING FINISHES (TABLE 803.11 AND SECTION 803.1)	
WALLS / CEILINGS - EXIT ENCLOSURE / PASSAGEWAY	CLASS A
WALLS / CEILINGS - CORRIDORS	CLASS B
WALLS / CEILINGS - ROOMS + SPACES	CLASS C
INTERIOR FLOOR FINISHES (804.4.2)	
INTERIOR FLOOR FINISHES (804.4.2)	CLASS II
EGRESS REQUIREMENTS	
EGRESS STAIR WIDTH REQUIRED (SECTION 1005.3.1; 0.3" PER OCCUPANT)	1ST FLOOR: 54" / 429"
EGRESS WIDTH REQUIRED OTHER COMPONENT: 0.2" PER OCCUPANT	
MAXIMUM COMMON PATH OF TRAVEL (T1006.2.1)	100'-0" IF OL< 30; 75'-0" IF OL >30
REQUIRED NUMBER OF EXITS (TABLE 1006.3.1)	2
EXIT DOORWAY SEPARATION (1007.1.1)	1/2 THE DIAGONAL DISTANCE
MAXIMUM TRAVEL DISTANCE (TABLE 1017.2)	REQUIRED 200'-0"/ PROVIDED 117'-9"
MAXIMUM DEAD END CORRIDOR (1020.4)	20'-0"

PLUMBING FIXTURE REQUIREMENTS - IPC 2015

Classification	Occupancy	Description	Sex	WC Occupancy Factor	Required WC	Provided WC	Lav Occupancy Factor	Required Lav	Provided Lav	Bathtubs/Showers Occupancy Factor	Required Bathtubs/Showers	Provided Bathtub/Showers	Required DF	Provided DF	Service Sink
BUSINESS	B	BUSINESS	MALE & FEMALE	1 per 25 FOR FIRST 50 THEN 1 PER 50	5	10	1 per 40 FOR FIRST 80 THEN 1 PER 80	4	7	-	-	8	1 per 100	1 Hi-Lo and 2 Water Dispensers	1 Required
Total Plumbing Fixtures	-	-	-	-	-	10	-	-	7	-	-	8	-	1 Hi-Lo and 2 Water Dispensers	2 Provided

ALL NEW EXTERIOR BUILDING ENVELOPE AND FENESTRATION MUST MEET THE FOLLOWING REQUIREMENTS:

TABLE C402.1.3 OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS R VALUE, CLIMATE ZONE 4:
INSULATION ABOVE ROOF DECK: R-30 CI
WALLS ABOVE GRADE: MASS: R 9.5 CI
SLAB ON GRADE, UNHEATED SLABS: R-10 FOR 24" BELOW

TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U FACTOR, CLIMATE ZONE 4:
FIXED FENESTRATION: U 0.38
OPERABLE FENETRATION: U 0.45 SHGC: U 0.36
SKYLIGHTS: U 0.50 SHGC: 0.40

LIFE SAFETY LEGEND:

- NO WORK IN THIS AREA
- EXIT SIGN WITH DIRECTIONAL ARROWS
- E — EXISTING EXIT SIGN WITH DIRECTIONAL ARROWS
- E/R — EXISTING RELOCATED EXIT SIGN WITH DIRECTIONAL ARROWS
- W — EXIT SIGN WITH DIRECTIONAL ARROWS WALL HOSTED
- EGRESS PATH WITH TRAVEL DISTANCE
- EGRESS PATH WITH TRAVEL DISTANCE DECISION POINT
- EGRESS DIAGONAL DISTANCE
- 33" — EXIT DOOR CAPACITY AND CLEAR EXIT WIDTH
- FE(E) — FIRE EXTINGUISHER (E - EXISTING)
- FEC — FIRE EXTINGUISHER CABINET
- 1 1 1 1 1 — 1 HOUR FIRE RATED
- 1S 1S 1S 1S 1S — 1 HOUR SMOKE BARRIER
- E1 E1 E1 E1 E1 — (E) 1 HOUR FIRE RATED
- 2 2 2 2 2 — 2 HOUR FIRE RATED
- E2 E2 E2 E2 E2 — (E) 2 HOUR FIRE RATED

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1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

LIFE SAFETY

Scale **1/8" = 1'-0"**
Drawn Author
Checked Checker

LS1.01

BID SET

8/5/2022 1:47:37 PM
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GENERAL NOTES:

1 THE DRAWINGS COMPRISING THIS SET OF CONSTRUCTION DOCUMENTS ARE CONSIDERED TO BE ONE WHOLE. INFORMATION INCLUDED ON ONE SHEET SHALL BE AS BINDING AS IF INCLUDED ON ALL, REGARDLESS OF TRADE ASSIGNMENTS. ANY DOUBT AS TO WHETHER ANY WORK IS WITHIN THE SCOPE OF THE CONTRACT SHALL BE RESOLVED IN FAVOR OF AN INTERPRETATION THAT THE WORK IS WITHIN THE SCOPE OF THE CONTRACT, UNLESS AGREED OTHERWISE BY ALL PARTIES. REVIEW ALL DOCUMENTS AND, IMMEDIATELY UPON DISCOVERY, NOTIFY THE ARCHITECT OF DOCUMENT CONFLICTS IN WRITING.

1A THE OWNER WILL SECURE AND PAY FOR THE BUILDING PERMIT. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL OTHER PERMITS, FEES, LICENSES, AND INSPECTIONS NECESSARY FOR A PROPER COMPLETION OF WORK ASSOCIATED WITH THIS PROJECT.

2 VISIT THE PROJECT TO BE FAMILIAR WITH SITE CONDITIONS PRIOR TO BIDDING OR CONSTRUCTION. BY SUBMITTING A BID, THE CONTRACTOR AND HIS SUBCONTRACTORS ARE CONFIRMING THAT THEY HAVE VISITED THE SITE AND HAVE INCLUDED IN THEIR BID ANY ADDITIONAL ITEMS OF CONSTRUCTION THAT MAY BE REQUIRED DUE TO EXISTING PROJECT AND SITE CONDITIONS.

3 CONTACT OWNER/ BUILDING MANAGER FOR RULES AND REGULATIONS THAT MAY IMPOSE RESTRICTIONS ON WORK TIMES, PARKING, NOISE, MATERIAL STORAGE, TRASH LOCATIONS, USE OF LOADING AREAS, AND USE OF UTILITIES

4 DO NOT PROCEED WITH ANY WORK THAT MAY RESULT IN ADDITIONAL COST OR ADDITIONAL TIME TO THE PROJECT UNTIL APPROVED OR INSTRUCTED BY OWNER AND ARCHITECT IN WRITING. DETERMINE THE ADDITIONAL COST OR TIME AND SUBMIT THE PROPOSED MODIFICATIONS TO THE OWNER FOR APPROVAL. PROCEEDING WITH WORK REQUIRING ADDITIONAL COST OR TIME PRIOR TO WRITTEN APPROVAL BY THE OWNER WILL NOT BE APPROVED.

5 ARRANGE TO MEET WITH OWNER'S REPRESENTATIVES PRIOR TO BEGINNING OF CONSTRUCTION TO DOCUMENT EXISTING CONDITIONS OF THE EXISTING FACILITY, PARKING, AND SITE. PROVIDE MACHINE READABLE COPY OF DATED VIDEO/PHOTO-DOCUMENTATION REQUIREMENTS WITHIN 14-DAYS OF NOTICE TO PROCEED.

6 PROVIDE COMPUTER READABLE COPY OF DATED VIDEO / PHOTO-DOCUMENTATION REQUIRED WITHIN 14-DAYS OF NOTICE TO PROCEED.

7 VERIFY EXISTING CONDITIONS AND REPORT DIFFERENCES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH THE WORK.

8 ALL WORK IS NEW UNLESS OTHERWISE NOTED.

9 WORK SHALL INCLUDE ALL LABOR, MATERIALS, ASSEMBLIES, AND FINISHES INCLUDING ALL PARTS AND ACCESSORIES NECESSARY TO MAKE A COMPLETE, IN-PLACE, PROPERLY WORKING INSTALLATION.

10 WHERE A DIMENSION IS SPECIFICALLY NOTED WITH A "±" DESIGNATION, THE DIMENSION IS TO BE CONTROLLED BY FIELD VERIFIED CONDITIONS. NOTIFY THE ARCHITECT IMMEDIATELY UPON CONFIRMATION OF THE ACTUAL DIMENSION. NO REFERENCE OR DESIGNATION WITHIN THESE DOCUMENTS SHALL BE CONSIDERED TO ESTABLISH A CONSTRUCTION TOLERANCE. THE DIMENSIONS ARE PRECISE AS INDICATED.

11 INSTALL ALL MATERIAL/ PRODUCTS/ EQUIPMENT FOR THIS PROJECT IN STRICT ACCORDANCE WITH THE MANUFACTURERS' LATEST PUBLISHED SPECIFICATIONS/ RECOMMENDATIONS/ INSTRUCTIONS, UNLESS OTHERWISE NOTED. PROVIDE ANY AND ALL RECOMMENDED ACCESSORIES, PRIMERS, AND SURFACE PREPARATION AS PART OF BASE BID WHETHER OR NOT SPECIFICALLY CALLED OUT ON DWGS OR SPECS.

12 PERFORM WORK IN STRICT ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES/ORDINANCES, AND OSHA REQUIREMENTS.

13 USE THE EXISTING BUILDING IN A MANNER WHICH WILL NOT DEFACE OR DAMAGE THE EXISTING FACILITIES IN ANY FASHION. DAMAGE BY CONTRACTOR SHALL BE REPAIRED / REPLACED BY THE CONTRACTOR AS A COMPONENT OF THE BASE CONTRACT. PROVIDE PROTECTIVE MATERIAL AS WARRANTED.

14 PROVIDE CONSTRUCTION BARRIERS AND NEGATIVE AIR-PRESSURE AS REQUIRED TO CONTAIN DUST WITHIN EACH WORK AREA. PROVIDE TEMPORARY FILTER MEDIA AT ALL RETURN AIR REGISTERS AND OPEN RETURN DUCTS SERVING THE WORK AREA.

15 PBROVIDE TEMPORARY STUD AND GWB PARTITIONS TO PREVENT OCCUPANTS FROM ENTERING WORK AREAS WHEN THE BUILDING IS OCCUPIED.

16 ACCESS TO ADJACENT SPACES NOT CONTAINED IN THE CURRENT AREA OF THE WORK SHALL BE BEFORE / AFTER NORMAL HOURS OF BUILDING OPERATION / OCCUPANCY UNLESS APPROVED IN WRITING BY OWNER. AFTER WORK HAS BEEN COMPLETED WITHIN OCCUPIED SPACE(S), LEAVE THE PREMISES IN THE CONDITION IN WHICH IT WAS FOUND, OR BETTER. OBTAIN WRITTEN PERMISSION FOR ACCESS MIN. OF 24-HOURS IN ADVANCE AND COORDINATE THE WORK WITH THE OWNER/ BUILDING MANAGER/ TENANT FOR SUCH ACCESS.

17 USE ONLY THOSE ENTRANCES AND PARKING FACILITIES APPROVED BY OWNER FOR SITE ACCESS. MATERIAL DELIVERIES AND DEMOLITION / TRASH SHALL BE TRANSPORTED DURING THOSE HOURS AND ON ROUTE PRESENTED TO AND REVIEWED AND APPROVED BY OWNER/ LANDLORD/ TENANT. PROVIDE COMPREHENSIVE TRAFFIC MANAGEMENT PLAN FOR REVIEW AND COMMENT BY THE COUNTY/ LANDLORD PRIOR TO MOBILIZATION.

18 PROVIDE COMPREHENSIVE TRAFFIC MANAGEMENT PLAN FOR REVIEW AND COMMENT BY THE COUNTY/ OWNER/ BUILDING MANAGER PRIOR TO MOBILIZATION.

19 DO NOT ALTER, LOAD OR PENETRATE THE EXISTING STRUCTURE IN ANY MANNER WHICH MAY COMPROMISE ITS INTEGRITY. PROVIDE STRUCTURAL ANALYSIS OF ALL CONSTRUCTION LOADS AND PROPOSED PENETRATIONS REQUIRED FOR THE WORK

20 PROVIDE AND USE TEMPORARY TOILET FACILITIES. DO NOT UTILIZE EXISTING OR PROPOSED FACILITIES WITHIN OR ADJACENT TO THE PROJECT.

21 WHERE REFERENCE IS MADE TO "BUILDING SYSTEMS", THIS SHALL INCLUDE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, HVAC, FIRE PROTECTION, TELEPHONE, AUDIO/ VISUAL, IT, SECURITY, INTERCOM, AND FIRE ALARM / LIFE SAFETY COMPONENTS.

22 COORDINATE MOUNTING / INSTALLATION OF LIGHTING FIXTURES, MECH. DIFFUSERS, SPRINKLER HEADS AND OTHER DEVICES WITH TYPE OF CEILINGS AND WALLS TO BE PROVIDED. PROVIDE HANGERS, SUPPORTS, SEISMIC STRUTS AND CLIPS, CUT-OUTS, TRIM RINGS, AND EDGE TRIM REQUIRED FOR A COMPLETE INSTALLATION.

23 PROVIDE ALL MATERIAL AND LABOR REQUIRED TO PRODUCE A COMPLETED, FINISHED PROJECT. FAILURE TO INCLUDE ITEMS INDICATED TO BE PROVIDED, THOUGH NOT DETAILED, SHALL NOT CONSTITUTE THE BASIS FOR A CHANGE ORDER.

24 FIRESTOP ALL PENETRATIONS THROUGH THE FLOOR / ROOF SLABS AND THROUGH FIRE RATED PARTITIONS PER UL LISTED DETAILS AND COMPLYING WITH APPLICABLE CODES AND LOCAL FIRE MARSHAL REQUIREMENTS. SELECT, PROVIDE AND INSTALL SUCH FIRESTOPPING SYSTEMS AND SOLICIT/ OBTAIN THE NECESSARY APPROVAL(S) FROM THE AUTHORITIES HAVING JURISDICTION

25 REQUEST ALL REPORTS OWNER MAY HAVE IDENTIFYING ASBESTOS IN THE BUILDING. THE PRESENCE OR ABSENCE OF ASBESTOS CONTAINING MATERIALS WITHIN THE EXISTING CONSTRUCTION IS NOT KNOWN TO THE OWNER. REPORT WRITTEN FINDINGS OF ANY SUSPECTED ASBESTOS CONTAINING MATERIALS (ACM) TO OWNER IMMEDIATELY. OWNER WILL TEST AND PURSUE ABATEMENT WHERE DETERMINED TO BE REQUIRED BY THE PROJECT.

26 WHERE DEMOLITION OR NEW WORK INTERRUPTS OR REMOVES EXISTING FINISHES, SIGNAGE, OR WALL PROTECTION DEVICES, REPAIR/REPLACE IN KIND UPON COMPLETION OF, AND AS A COMPONENT OF, NEW WORK.

27 PROVIDE NEOPRENE GASKETS AND / OR WASHERS AS APPROPRIATE WHERE DISSIMILAR METALS WOULD COME IN CONTACT WITH ONE ANOTHER TO ENSURE GALVANIC CORROSION OF THE METALS OR FASTENERS IS AVOIDED. SUCH DISSIMILAR METALS INCLUDE BUT ARE NOT LIMITED TO COATED COPPER, STEEL, GALVANIZED STEEL, AND ALUMINUM. AT SUCH CONNECTIONS REQUIRING FASTENERS, STAINLESS STEEL FASTENERS WITH NEOPRENE WASHERS TO ISOLATE THE METALS SHALL BE UTILIZED.

28 DIMENSIONS INDICATED ARE TO FINISHED WALL SURFACES, OR COLUMN CENTER LINES, UNLESS NOTED OTHERWISE

29 INSPECT, TEST, AND CLEAN ALL EXISTING LIGHT FIXTURES, DIFFUSERS, EQUIPMENT, ETC. TO REMAIN. ASSURE PROPER OPERATION AND FUNCTION.

30 PROTECT ALL EXISTING TO REMAIN WINDOWS & BLINDS IN THE WORK AREAS DURING CONSTRUCTION, AND CLEAN AS PART OF FINAL CLEANING.

31 FILL ALL HOLES IN EXISTING SLAB CREATED IN DEMOLITION WORK W/ CONCRETE TO PROVIDE A SMOOTH, FLAT MONOLITHIC SURFACE AND MAKE READY TO RECEIVE NEW FINISHES.

32 MODIFY EXISTING BUILDING SPRINKLER SYSTEMS TO ACCOMMODATE THE WORK AND COMPLY WITH ALL APPLICABLE CODES, NFPA 13, AND THE FIRE PROTECTION ENGINEER. EXACT LAYOUT OF SPRINKLER HEADS IN AREAS WITH GYPSUM BOARD CEILINGS AND SOFFITS, ETC. SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.

33 REMOVE ALL CONSTRUCTION DEBRIS DAILY AND AS REQUIRED TO MAINTAIN A CLEAN ENVIRONMENT AND TO PREVENT THE POSSIBILITY OF ACCIDENT OR FIRE. COORDINATE REMOVAL WORK WITH OWNER IN OCCUPIED SPACES. MAINTAIN WORKING FIRE EXTINGUISHERS IN THE PROJECT AREA DURING CONSTRUCTION WHEN SPRINKLER SYSTEM IS UNDERGOING MODIFICATIONS.

34 ANY AND ALL MATERIALS AND INSTALLATION METHODS USED IN THE MODIFICATION OF THE EXISTING ROOF SYSTEM SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE EXISTING ROOF WARRANTY.

35 CONFIRM LOCATIONS OF ELECTRICAL, DATA, AND COMMUNICATION OUTLETS WHEN SURROUNDED BY OR ABUTTING MILLWORK WITH THE ARCHITECT PRIOR TO ROUGH-IN AND FABRICATION.

36 CONFIRM PLUMBING PENETRATIONS THROUGH THE FLOOR AND FLOOR MOUNTED OUTLET LOCATIONS WITH THE OWNER AND ARCHITECT BEFORE CORE DRILLING OR CUTTING OF FLOOR SYSTEM.

37 CONTACT ARCHITECT FOR CLARIFICATION IF EXISTING OUTLET HEIGHTS OR LOCATIONS DO NOT MATCH THAT INDICATED IN THE DRAWINGS.

38 REPLACE ALL EXISTING DEVICES AND COVER PLATES TO MATCH THOSE SPECIFIED.

39 LOCATE DOWN LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS AND EXIT SIGNS IN THE CENTER OF SUSPENDED CEILING TILES, UNLESS OTHERWISE NOTED.

40 REVIEW PLACEMENT OF WALL OR CEILING ACCESS PANELS WITH THE ARCHITECT.

41 PROVIDE A FINAL PROFESSIONAL CLEANING OF THE ENTIRE SPACE AFTER CONSTRUCTION AND PUNCH LIST ITEMS ARE COMPLETE AND PRIOR TO TENANT OCCUPANCY.

42 SALVAGE, PROTECT, AND STORE UNUSED MATERIALS ORDERED FOR PROJECT. PROVIDE UNUSED MATERIALS AS ATTIC STOCK, AND DELIVER TO OWNERS DESIGNATED LOCATION.

43 ALL EXISTING BUILDING SYSTEMS (EXAMPLE: WATER, SANITARY, FIRE ALARM, ELECTRICAL, ETC.) SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. ALL NECESSARY INTERRUPTIONS FOR CONNECTION OF NEW WORK SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER IN WRITING, IN ADVANCE. PROVIDE ADEQUATE NOTICE AS AGREED UPON PRIOR TO START OF WORK.

GENERAL DEMOLITION NOTES:

1 DEMOLITION PLANS ARE PROVIDED AS A GENERAL GUIDE TO THE DEMOLITION WORK. DEMO PLANS ARE NOT MEANT TO CONTAIN A COMPLETE DESCRIPTION OF ALL MATERIALS TO BE REMOVED. PRIOR TO BIDDING, COORDINATE WITH OWNER AND PERFORM AN INDEPENDENT SITE VISIT IN ORDER TO FIELD SURVEY AND BE THOROUGHLY FAMILIAR WITH THE PROJECT AND DEMOLITION EFFORTS REQUIRED BY THE SCOPE AND EXTENT OF THE WORK INDICATED. CHANGE ORDERS FOR DEMOLITION WORK (WHETHER SHOWN OR NOT) SHALL NOT BE APPROVED WHERE DEMOLITION IS REQUIRED BY THE NEW WORK.

2 SURVEY THE WORK PRIOR TO DEMOLITION ACTIVITY AND PERFORM PROTECTIVE / CORRECTIVE MEASURES AS NECESSARY TO ENSURE INTEGRITY OF EXISTING FIRE PROTECTION SYSTEMS.

3 REFERENCE STRUCTURAL AND MECHANICAL, PLUMBING AND ELECTRICAL (MPE) PLANS FOR ADDITIONAL INFORMATION.

4 COORDINATE EXTENT OF SELECTIVE DEMOLITION WITH ALL WORK.

5 PROVIDE TEMPORARY ENCLOSURE WITH NEGATIVE AIR PRESSURE AND TOOLS EQUIPPED WITH AN INTEGRATED WATER DELIVERY SYSTEM WHEN PERFORMING ANY CONSTRUCTION ACTIVITIES THAT BEAR THE POTENTIAL TO GENERATE DUST AND/OR AIRBORNE PARTICULATE MATTER RELATED TO THE DEMOLITION OF BRICK, MORTAR, GROUT, CONCRETE MASONRY, AND CONCRETE MATERIALS INDOORS OR IN AN ENCLOSED AREA. PROVIDE WORKERS WITH RESPIRATORY PROTECTION AND ASSIGNED PROTECTION FACTOR (APF) LEVEL 10 PER OSHA STANDARD 29 CFR 1926.1153 - RESPIRABLE CRYSTALLINE SILICA. REFER TO TABLE 1—SPECIFIED EXPOSURE CONTROL METHODS WHEN WORKING WITH MATERIALS CONTAINING CRYSTALLINE SILICA.

6 PROVIDE SHORING, BRACING, AND SUPPORTS AS REQUIRED TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE PROJECT BEFORE CUTTING OR ALTERING ANY OPENING IN AN EXISTING LOAD BEARING OR NON-LOAD BEARING WALL, FOOTING, OR ROOF DECK. LEAVE BRACING IN PLACE UNTIL SAFE TO REMOVE SUCH BRACING AND SUPPORTS.

7 PROVIDE TEMPORARY MASONRY SUPPORT AT NEW OPENINGS CUT IN EXISTING MASONRY WALLS, WHETHER LOAD BEARING OR NON-LOAD BEARING, WITH MINIMUM 8" BEARING, UNLESS OTHERWISE INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS.

8 TOOTH-IN MASONRY WHERE EXISTING MASONRY ABUTS NEW MASONRY IN THE SAME WALL PLANE. NEW MASONRY SHALL MATCH EXISTING COURSING, TEXTURE, COLOR, AND BOND PATTERN. PROVIDE A FINISHED EDGE BY TOOTHING-IN NEW MASONRY TO MATCH EXISTING WHERE A PORTION OF AN EXPOSED EXISTING MASONRY WALL IS TO BE REMOVED UNO.

9 WHERE RECESSED EQUIPMENT, DATA AND ELECTRICAL OUTLETS ARE CALLED TO BE REMOVED FROM A CMU WALL - DEMOLISH THE ENTIRE CMU FACE AND REPLACE WITH NEW. COORDINATE WITH ELECTRICAL DOCUMENTS.

10 OWNER WILL REMOVE ALL LOOSE AND MOVABLE FURNITURE PRIOR TO THE START OF WORK.

11 THE OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SALVAGED ITEMS. STORE SALVAGED ITEMS FOR OWNER WHERE DIRECTED BY THE OWNER.

12 DO NOT PERFORM DEMOLITION BEYOND THE SCOPE REQUIRED BY THE WORK. COORDINATE SUCH EFFORTS PRIOR TO START OF CONSTRUCTION AND MAINTAIN ACTIVE COORDINATION OF DEMOLITION AND THE WORK DURING CONSTRUCTION.

13 PROTECT EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE FOR DURATION OF CONSTRUCTION. REPAIR/ REPLACE EXISTING CONSTRUCTION WHICH IS DAMAGED DURING COURSE OF CONSTRUCTION AS COMPONENT OF BASE CONTRACT.

14 "READY TO RECEIVE NEW FINISHES" REFERS TO SURFACES WHICH ARE FREE OF DEFECTS, SMOOTH, AND FLAT. PREPARE FLOORS, WALLS, AND CEILINGS AS REQUIRED TO PRODUCE THIS RESULT. AS A COMPONENT OF THE BASE BID, SCRAPE AND LEVEL/FILL SLABS AND SURFACES WITH SELF-LEVELING UNDERLAYMENT; SAND SKIM-COAT GWB WALLS AS NEEDED.

15 REMOVE ALL ABANDONED EXISTING CEILING MOUNTED EQUIPMENT.

16 REMOVE ALL ABANDONED EXISTING SECURITY CAMERAS AND CCTV DEVICES. PATCH AND REPAIR SURFACES AND MAKE READY TO RECEIVE NEW FINISHES.

17 SALVAGE ALL EXISTING INTERIOR SIGNAGE. COORDINATE WITH DEMO AND NEW WORK PLANS AND BUILDING OWNER WHICH SIGNS REMAIN AND WHICH ARE TO BE RELOCATED. TAG THE BACK OF ALL REMOVED SIGNAGE W/ PRIOR LOCATION TO ASSIST W/ REINSTALLATION. REVIEW NEW LOCATIONS WITH THE ARCHITECT

18 DEMOLISH ALL EQUIPMENT, CASEWORK, ETC. ATTACHED TO PARTITIONS INDICATED TO BE DEMOLISHED.

19 REMOVE ALL EXISTING EXTERIOR LIGHTS. COORD WITH ELEC DOCS FOR REPLACEMENT IN EXISTING LOCATIONS.

20 PATCH AND REPAIR EXISTING PARTITIONS, FLOORS OR CEILINGS WHERE FINISHES HAVE BEEN DISTURBED OR INTERRUPTED DUE TO REMOVAL OF CONTIGUOUS PARTITIONS, DOORS, WINDOWS, CASEWORK OR MECHANICAL, ELECTRICAL OR PLUMBING FIXTURES OR DEVICES. PROVIDE A SMOOTH MONOLITHIC FINISH TO MATCH AND ALIGN WITH ADJACENT SURFACE.

21 REMOVE ALL MISCELLANEOUS MATERIALS, ADHESIVE RESIDUE, OVER-PAINTING, ETC. FROM EXISTING UNPAINTED WINDOW SILLS AND FRAMES. ALL SURFACES TO BE CLEAN, FREE AND CLEAR OF ANY DEBRIS AND FOREIGN MATERIAL.

22 REMOVE ALL MASTICS, ADHESIVES AND GROUTS FROM SURFACES TO REMAIN AND PROVIDE SMOOTH, FLAT SURFACE READY TO RECEIVE NEW FINISHES AS SCHEDULED.

23 SHOT-BLAST EXISTING CONCRETE FLOOR SLABS WHERE RESILIENT FLOOR FINISHES ARE TO BE INSTALLED. PROVIDE A SMOOTH, FLAT SURFACE, FREE OF DEBRIS AND READY TO RECEIVE NEW FINISHES. COORDINATE LOCATIONS WITH FINISH PLAN.

24 PROVIDE THE QUANITY, SIZE AND LOCATION OF CORE DRILL HOLES TO THE OWNER/BUILDING MANAGER/ARCHITECT FOR REVIEW AND COMMENT. INCLUDE ALL CORES REQUIRED TO COMPLETE THE FULL SCOPE OF THIS PROJECT.

25 CORE DRILL AND REMOVE DEBRIS TO FACILITATE INSTALLATION OF NEW WORK. CORE DRILL EXISTING CONCRETE SLAB ONLY AFTER FIRST USING X-RAY SCANNING TO DETERMINE LOCATIONS OF SLAB REINFORCEMENTS AND CONDUITS. ADJUST LOCATIONS AS REQUIRED TO AVOID HITTING AND/OR CUTTING SLAB REINFORCEMENTS AND CONDUITS. COORDINATE EXTENTS WITH ARCH., MECH., ELEC., AND PLUMB. DRAWINGS.

26 REMOVE ALL EXISTING WALL COVERING, BASE MATERIALS, ETC. FROM EXISTING WALLS TO REMAIN.

27 AT ALL EXISTING WALLS TO RECEIVE NEW ELECTRICAL RECEPTACLE, DEVICES, OUTLETS, CARD READERS, ETC. - GWB SHALL BE CUT TO ACCOMMODATE NEW ITEM. PATCH & REPAIR WALL AS REQUIRED TO RECEIVE NEW FINISHES

28 ALL EXISTING DEVICES, FIXTURES, RECEPTACLES, SWITCHES, AND CONTROLS TO REMAIN SHALL BE RESET FLUSH WITH NEW FINISHES.

GENERAL FINISH NOTES:

1 PROVIDE 24" X 24" WALL SAMPLE OF ALL PAINT COLORS FOR OWNER REVIEW AND APPROVAL PRIOR TO PURCHASE/ INSTALLATION.

2 PROVIDE 24" SAMPLE OF ALL WOOD CEILING, WALL, FLOOR, AND BASE PROFILES FOR OWNER APPROVAL PRIOR TO PURCHASE/ INSTALLATION.

3 PROVIDE ALL FINISH ACCESSORY PIECES REQUIRED FOR FULL AND COMPLETE INSTALLATION OF FINISH MATERIALS.

4 ALL PAINTED GWB CEILINGS TO HAVE A FLAT FINISH, UNO.

5 ALL PAINTED WALLS TO HAVE AN EGGSHELL FINISH, UNO.

6 ALL PAINTED HM FRAMES AND WOOD TRIM / BASE TO HAVE A SEMI-GLOSS FINISH, UNO.

7 ALL PAINTED DOORS TO HAVE A SEMI-GLOSS FINISH, UNO.

8 INTERIOR FINISHES SHALL BE AT LEAST EQUAL TO (OR BETTER THAN) CLASS B WHERE INSTALLED IN CORRIDORS AND EXIT PASSAGEWAYS, AND CLASS C WHERE INSTALLED IN ROOMS / ENCLOSED SPACES.

9 PROVIDE 3 PERCENT OVERAGE ON FINISH MATERIAL QUANTITIES AS ATTIC STOCK. COORDINATE STORAGE WITH OWNER PRIOR TO PROJECT COMPLETION.

10 REFER TO SPECIFICATIONS AND FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.

11 PROVIDE TRANSITION STRIPS AND THRESHOLDS AS REQUIRED. ARCHITECT TO APPROVE.

12 COPE SADDLES AND THRESHOLDS TO FIT DOOR FRAME PROFILE.

13 UNDERCUT EXISTING DOORS TO PROVIDE 1/4" CLEARANCE OVER THRESHOLDS AND TRANSITIONS.

14 REVIEW ALL FINISH LOCATIONS AND START/STOP POINTS WITH ARCHITECT PRIOR TO INSTALLATION.

15 USE LOW VOC ADHESIVE, FOLLOWING MANUFACTURERS RECOMMENDED PRODUCTS, FOR ALL CARPET, RESILIENT, AND LAMINATE FLOORING.

16 USE LOW VOC PAINTS THROUGHOUT, UNO.

17 PROVIDE ANODIZED ALUMINUM SCHLUTER "SCHIENE" STRIP AT ALL TRANSITIONS FROM CARPETING TO TILE FLOOR FINISH UNO, OR UNLESS A HEIGHT TRANSITION IS NEEDED.

18 PAINT VISIBLE DUCTWORK, PLENUM ELEMENTS, STUDS, AND OTHER ELEMENTS FLAT BLACK WHERE THEY CAN BE SEEN THROUGH GRILLES, REGISTERS, LOUVERS, AND DIFFUSERS.

GENERAL PARTITION NOTES:

1 CONSTRUCT FIRE RATED AND STC / ACOUSTIC RATED ASSEMBLIES CONTINUOUS AROUND ROOMS WHERE INDICATED. RATED ASSEMBLIES SHALL TAKE PRECEDENCE OVER ADJACENT AND/OR PERPENDICULAR PARTITIONS. RATED ASSEMBLIES SHALL BE CONSTRUCTED PER THE DETAILS AND REQUIREMENTS OF THE ASSEMBLY INDICATED. SEAL ALL GAPS, SEAMS, AND PENETRATIONS IN STC / ACOUSTIC RATED ASSEMBLIES AIRTIGHT.

2 CONSTRUCT FIRE AND SMOKE BARRIER WALLS CONTINUOUS THROUGH SOFFITS, OVERHANGS, ANY INTERSTITIAL SPACES, AND NON-RATED PARTITIONS. SEALPENETRATIONS AT FIRE AND SMOKE BARRIER WALLS. WHERE MULTIPLE LAYERS OF GWB USED, STAGGER JOINTS.

3 SEAL ALL FIRE AND SMOKE BARRIER ASSEMBLIES SMOKE-TIGHT (VIA PLASTER/ FIRE-STOP SEALANT OVER CONTINUOUS BACKING ROD) AT THE ENTIRE PERIMETER (FLOOR, ROOF & WALLS). PROVIDE MINERAL WOOL INSULATION IN INTERSTITIAL SPACE BEHIND SEALANT AND BACKING ROD, INCLUDING FLOOR AND ROOF DECK FLUTES ABOVE METAL WALL CHANNELS AT TOP OF WALL.

4 FIT GWB TIGHT TO ALL JUNCTION BOXES AND PENETRATIONS, AND SEAL

5 PARTITION TAG WITH NUMERICAL SUFFIX INDICATES FIRE RATING REQUIRED.

6 MAINTAINING CONTINUITY OF RATED WALLS MAY REQUIRE INSTALLATION OF GWB IN SOME LOCATIONS OUT-OF-SEQUENCE PRIOR TO COMPLETING THE BALANCE OF PARTITION INSTALLATION.

7 CONSTRUCT REFERENCED RATED ASSEMBLIES IN THEIR ENTIRETY WITHOUT MODIFICATION. UL ASSEMBLIES ARE REPRINTED FROM THE UL PRODUCTS DIRECTORY WITH PERMISSION FROM UNDERWRITERS LABORATORIES INC. ® COPYRIGHT © 2016 UNDERWRITERS LABORATORIES INC.

8 PROVIDE HIGH-IMPACT GWB WHERE INDICATED THUS: ♦.

9 ALIGN THE ADJACENT EXPOSED FACE OF GYPSUM WALLBOARD (GWB) AND / OR GYPSUM SHEATHING WHERE THE PARTITION THICKNESS VARIES DUE TO DIFFERENT PARTITION TYPES AND EXISTING CONDITIONS. TRANSITIONS ON THE OPPOSITE SIDE OF THESE WALLS SHALL BE HIDDEN AT INTERSECTIONS WITH OTHER PARTITIONS AND CORNERS.

10 PROVIDE 5/8" GLASS MESH MORTAR UNIT (GMMU) BOARD IN LIEU OF GWB ON WALL SURFACES TO RECEIVE CERAMIC TILE.

11 THE GWB GAP AT THE FLOOR SHALL NOT EXCEED 1/4" AND GWB SHALL NOT BE IN CONTACT WITH THE SLAB.

12 TYPICAL PARTITIONS INDICATE DEFLECTION TRACK AT STEEL FRAMED BUILDINGS. OMIT DEFLECTION TRACK AT CONCRETE FRAMED BUILDINGS UNO.

13 PARTITION DESIGNATION TAG SHALL TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION.

14 UNLESS NOTED OTHERWISE, PARTITION DESIGNATION TAGS REPRESENT THE ENTIRE LENGTH AND HEIGHT OF THE PARTITION AT WHICH IT IS LOCATED.

15 OFFSET INSTALLATION OF RECESSED JUNCTION BOXES AND EQUIPMENT ONE STUD CAVITY – DO NOT INSTALL BACK-TO-BACK IN SAME STUD CAVITY.

16 THE AGGREGATE SURFACE AREA OF OUTLET BOXES SHALL NOT EXCEED 100 SQ IN WITHIN ANY 100 SF.

17 INFILL EXISTING WALLS AND PENETRATIONS WITH MATERIALS AND RATED CONSTRUCTION TO MATCH EXISTING AND ALIGN EXPOSED SURFACES.

18 ALL PARTITIONS SHALL BE TYPE ___ UNLESS NOTED OTHERWISE OR REQUIRED FOR RATED CONSTRUCTION.

20 PROVIDE CONTINUOUS STRIP OF 15-LB FELT OR NEOPRENE SILL GASKET WHERE METAL RUNNER OR WD PLATE IS INSTALLED ON CONCRETE.

21 METAL STUDS INDICATED USE NON-LOAD BEARING, L/240 DEFLECTION, AND 5 PSF AIR-PRESSURE DESIGN CRITERIA UNLESS OTHERWISE NOTED. METAL STUD CONTRACTOR SHALL EVALUATE STUDS IF HIGHER DESIGN CRITERIA AND/OR LOAD BEARING PARTITIONS ARE USED.

22 METAL STUD CONTRACTOR SHALL BE, OR SHALL CONSULT WITH, A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROJECT LOCATION. METAL STUD CONTRACTOR SHALL ENGINEER THE STUD GAUGES AND ATTACHMENT METHODS NECESSARY TO PROVIDE THE FRAMING IN THE CONFIGURATIONS INDICATED. ALL STUD GAUGES SHALL BE DETERMINED BY THE METAL STUD CONTRACTOR AND SHALL BE APPROPRIATE FOR THE APPLICATION. SUBMIT FRAMING SHOP DRAWINGS FOR THE VARIOUS CONDITIONS INDICATING THE STUD SIZE, GAUGE AND CALCULATIONS TO SUPPORT THE DESIGN SIGNED AND SEALED BY AN ENGINEER.

23 SEE TYPICAL DETAILS FOR FRAMING AROUND OBSTRUCTIONS.

24 DO NOT ATTACH GWB TO RESILIENT CHANNEL (RC) AT STUD LOCATIONS. RC MUST REMAIN FREE TO MOVE.

GENERAL CEILING NOTES:

1 REFER TO RCP AND FINISH PLANS FOR CEILING FINISH DESIGNATIONS.

2 WHERE EXPOSED STRUCTURE CEILINGS ARE INDICATED, NEATLY BUNDLE EXISTING WIRES, CONDUIT, AND PIPING TIGHT TO DECK OR JOISTS. AVOID LOCATING WIRES, CONDUIT, AND PIPING IN EXPOSED STRUCTURE AREAS.

3 SUBMIT CONTRACTOR PREPARED SHOP DRAWINGS TO AUTHORITY HAVING JURISDICTION FOR SPRINKLER APPROVAL PRIOR TO PERFORMING WORK. PROVIDE CEILING HEIGHTS INDICATED. LOCATE SPRINKLER HEADS IN THE CENTER OF SUSPENDED ACOUSTICAL TILES. ADJUST SPRINKLER HEAD HEIGHTS AND LOCATIONS TO ACCOMMODATE PROPOSED CEILING HEIGHTS, LAYOUT, AND PATTERNS. CEILINGS MAY DIFFER FROM EXISTING CONDITIONS.

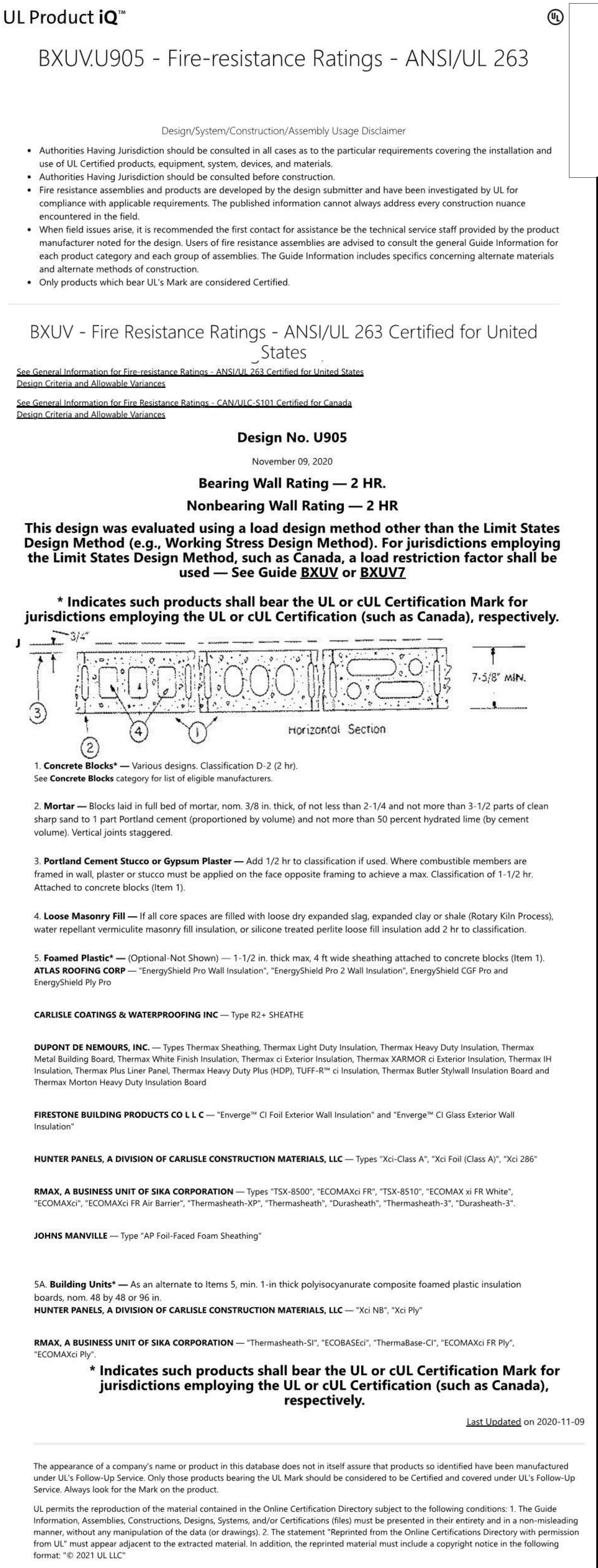
4 COORDINATE ALL MPE AND SPRINKLER WORK WITH HEIGHT AND TYPE OF CEILING FINISHES.

5 COORDINATE MOUNTING FLANGES OF ALL FIXTURES WITH CEILING TYPE TO RECEIVE FIXTURES.

6 COORDINATE W/ MECHANICAL, ELECTRICAL, PLUMBING DWGS FOR SPECIFIC ACCESS PANEL LOCATIONS. NOT ALL ARE SHOWN ON RCP.

7 FOLLOW GWB MANUFACTURER'S WRITTEN GUIDELINES FOR RADIUS APPLICATIONS AT CURVED WALLS AND BULKHEADS. PROVIDE LEVEL 5 DRYWALL FINISH ON ALL CURVED WALLS, CEILINGS, AND BULKHEADS.

8 EXTEND GYPSUM BOARD UP EXISTING WALLS WHERE NEW CEILING HEIGHT IS GREATER THAN EXISTING CEILING HEIGHTS.



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BXUV.U905 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

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

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

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

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

Design No. U905

November 09, 2020

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

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

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

1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

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

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

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

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

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

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

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

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

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

5A. **Building Units* —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

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

Last Updated on 2020-11-09

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Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O -
INTERIOR RENOVATION
4300 S. 29TH STR. ARLINGTON, VA, 22206

Project: 21124-01

Issued 01/07/22

BID SET

Revisions		
1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

GENERAL NOTES

Scale
Drawn Author
Checked Checker

AG1.01

BID SET

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C:\Users\RonaldM\Documents\21124-01_Solid Waste and TE&O_Central_2019_RonaldMSMJKN.rvt

FIG. 302.2 - CARPET PILE ON FLOOR OR GROUND SURFACES

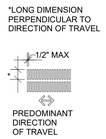


FIG. 302.3 - OPENINGS IN FLOOR OR GROUND SURFACES

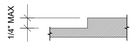


FIG. 303.2 - VERTICAL CHANGES IN LEVEL

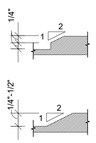


FIG. 303.3 - BEVELED CHANGES IN LEVEL

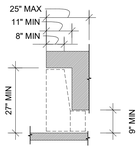


FIG. 306.3 - KNEE CLEARANCE

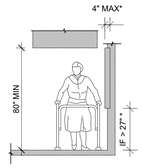


FIG. 307.2 - LIMITS OF PROTRUDING OBJECTS

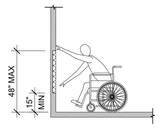


FIG. 308.2.1 - UNOBSTRUCTED FORWARD REACH

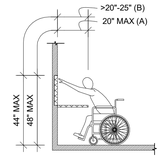


FIG. 308.2.2 - OBSTRUCTED HIGH FORWARD REACH (A) AND (B)

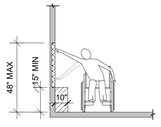


FIG. 308.3.1 - UNOBSTRUCTED SIDE REACH

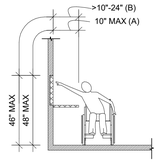
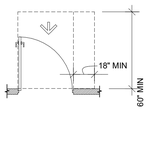
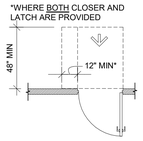


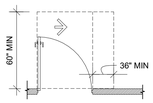
FIG. 308.3.2 - OBSTRUCTED HIGH SIDE REACH (A) AND (B)



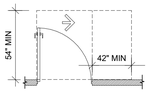
ICC FIG 404.2.3.2 (A)
ADA FIG 404.2.4.1 (A)
MANEUVERING CLEARANCE AT SWINGING DOORS FRONT APPROACH, PULL SIDE



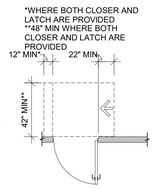
ICC FIG 404.2.3.2 (B)
ADA FIG 404.2.4.1 (B-C)
FRONT APPROACH, PUSH SIDE



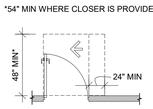
ICC FIG 404.2.3.2 (C)
ADA FIG 404.2.4.1 (D)
HINGE APPROACH, PULL SIDE



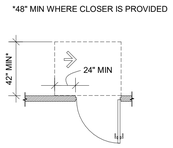
ICC FIG 404.2.3.2 (D)
ADA FIG 404.2.4.1 (E)
HINGE APPROACH, PULL SIDE



ICC FIG 404.2.3.2 (E)
ADA FIG 404.2.4.1 (F-G)
HINGE APPROACH, PUSH SIDE



ICC FIG 404.2.3.2 (F)
ADA 404.2.4.1 (H-I)
LATCH APPROACH, PULL SIDE



ICC FIG 404.2.3.2 (G)
ADA 404.2.4.1 (J-K)
LATCH APPROACH, PUSH SIDE

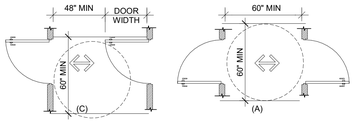


FIG. 404.2.5 - TWO DOORS IN SERIES
(C) AND (A)

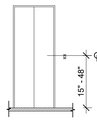


FIG. 407.2.1.1 - ELEVATOR CALL BUTTONS

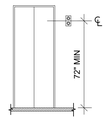


FIG. 407.2.2.2 - HEIGHT OF ELEVATOR SIGNALS

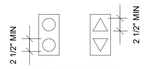


FIG. 407.2.2.2 - SIZE OF ELEVATOR SIGNALS

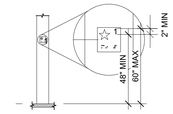


FIG. 407.2.3.1 - TACTILE CHARACTERS ON ELEVATOR HOISTWAY ENTRANCES

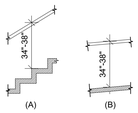
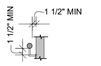
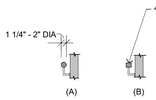


FIG. 505.4 - HANDRAIL HEIGHT
(A) STAIRS
(B) RAMPS



ICC FIG 505.5
ADA FIG 505.5, 505.6
HANDRAIL CLEARANCE



ICC FIG 505.7
ADA FIG 505.7.2
HANDRAIL CROSS SECTION
(A) CIRCULAR
(B) AND (C) NON-CIRCULAR

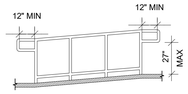


FIG. 505.10.1 - TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMPS

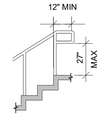


FIG. 505.10.2 - TOP HANDRAIL EXTENSIONS AT STAIRS

FIG. 505.10.3 - BOTTOM HANDRAIL EXTENSIONS AT STAIRS

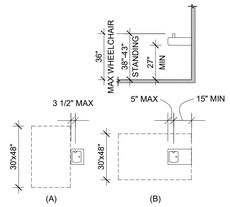


FIG 602.2, 602.5
DRINKING FOUNTAIN SPOUT LOCATION
(A) PARALLEL APPROACH - CHILDREN ONLY
(B) FORWARD APPROACH

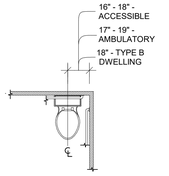
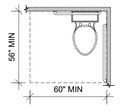


FIG. 604.2 - WATER CLOSET LOCATION



ICC FIG 604.3
ADA FIG 604.3.1
SIZE OF CLEARANCE FOR WATER CLOSET

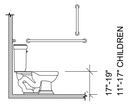


FIG. 604.4 - HEIGHT OF WATER CLOSET SEAT

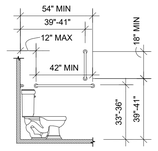


FIG. 604.5.1 - SIDE WALL GRAB BAR FOR WATER CLOSET

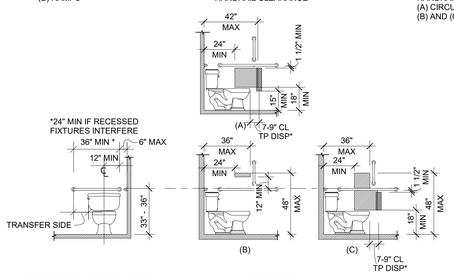
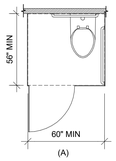
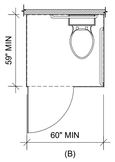


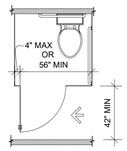
FIG 604.5.2 - REAR WALL GRAB BAR FOR WATER CLOSET

ICC FIG 604.7
ADA FIG 7-9" CL TP DISP*
DISPENSER OUTLET LOCATION
(A) PROTRUDING - BELOW GRAB BAR
(B) PROTRUDING - ABOVE GRAB BAR
(C) RECESSED

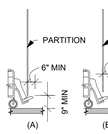




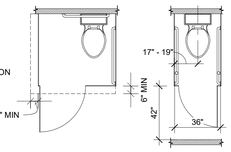
ICC FIG 604.9.2
ADA FIG 604.8.1.1
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS
(A) WALL-HUNG WATER CLOSET - ADULT
(B) FLOOR-MOUNTED WATER CLOSET - ADULT AND WALL HUNG AND FLOOR-MOUNTED CLOSET - CHILDREN



ICC FIG 604.9.3.1
ADA FIG 604.8.1.2
TOILET COMPARTMENT DOORS



ICC FIG 604.9.5
ADA FIG 604.8.1.4
TOILET COMPARTMENT TOE CLEARANCE
(A) ELEVATION ADULT
(B) ELEVATION CHILDREN
(C) PLAN



ICC FIG 604.10
ADA FIG 604.8.2
AMBULATORY ACCESSIBLE COMPARTMENT

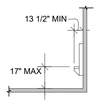


FIG. 605.2 - URINAL HEIGHT

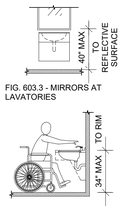
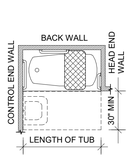


FIG. 603.3 - MIRRORS AT LAVATORIES

FIG. 606.3 - HEIGHT OF LAVATORIES AND SINKS



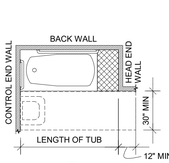


FIG. 607.2 - CLEARANCE FOR BATHTUBS
(A) WITHOUT PERMANENT SEAT
(B) WITH PERMANENT SEAT

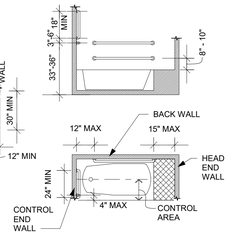


FIG. 607.4.1 - GRAB BARS FOR BATHTUBS WITH PERMANENT SEATS SECTION AND PLAN

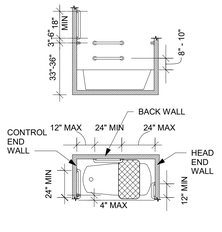


FIG. 607.4.2 - GRAB BARS FOR BATHTUBS WITHOUT PERMANENT SEATS SECTION AND PLAN

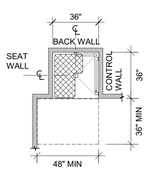


FIG. 608.2.1 - TRANSFER-TYPE SHOWER COMPARTMENT

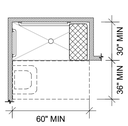


FIG. 608.2.2 - STANDARD ROLL-IN-TYPE SHOWER COMPARTMENT

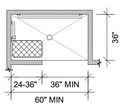


FIG. 608.2.3 - ALTERNATE ROLL-IN-TYPE SHOWER COMPARTMENT

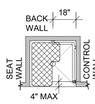


FIG. 608.3.1 - GRAB BARS IN TRANSFER-TYPE SHOWERS

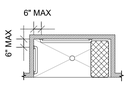
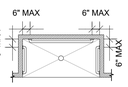


FIG. 608.3.2 - GRAB BARS IN STANDARD ROLL-IN-TYPE SHOWER WITH SEAT



ICC NA
ADA FIG 608.3.3
GRAB BARS IN STANDARD ROLL-IN-TYPE SHOWER WITHOUT SEAT

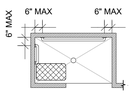
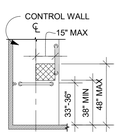
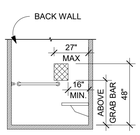


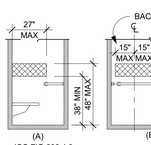
FIG. 608.3.3 - GRAB BARS IN ALTERNATE ROLL-IN TYPE SHOWER



ICC FIG 608.4.1
ADA FIG 608.5.1
TRANSFER-TYPE SHOWER AND HANDSHOWER LOCATION



ICC FIG 608.4.2
ADA FIG 608.5.2
CONTROLS IN STANDARD ROLL-IN SHOWER WITH SEAT



ICC FIG 608.4.3
ADA FIG 608.5.3
ALTERNATE ROLL-IN-TYPE SHOWER CONTROL AND HANDSHOWER LOCATION

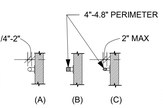


FIG. 609.2 - SIZE OF GRAB BARS
(A) CIRCULAR
(B) AND (C) NON-CIRCULAR

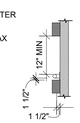
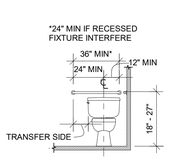
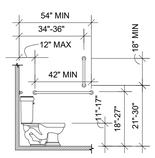


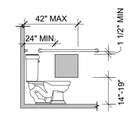
FIG. 609.3 - SPACING OF GRAB BARS WITH PROJECTING OBJECTS



ICC FIG 609.4.2
ADA NA
REAR WALL GRAB BAR FOR WATER CLOSET - CHILDREN



ICC FIG 609.4.2
ADA NA
SIDE WALL GRAB BAR FOR WATER CLOSET - CHILDREN



ICC FIG 604.11.7
ADA NA
DISPENSER OUTLET LOCATION - CHILDREN

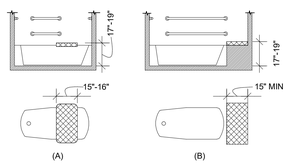


FIG. 610.2 - BATHTUB SEAT
(A) REMOVABLE IN-TUB SEAT
(B) PERMANENT SEAT SECTION AND PLAN

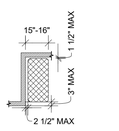


FIG. 610.3.1 - RECTANGULAR SHOWER COMPARTMENT SEAT

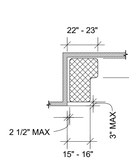


FIG. 610.3.2 - L-SHAPED SHOWER COMPARTMENT SEAT

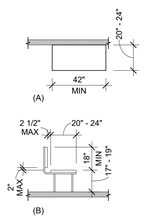
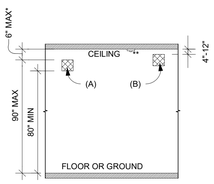
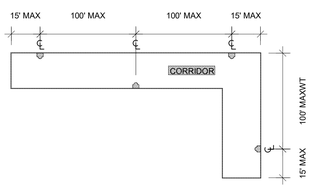


FIG. 903 - BENCHES
(A) CLEAR FLOOR SPACE AND SIZE
(B) BENCH BACK SUPPORT AND SEAT HEIGHT



LOCATION OF WALL-MOUNTED ALARM APPLIANCES
(A) WALL ALARM: 80" - 90", OR 6" FROM CLG <7' - 6"*
(B) WALL ALARM WITH SMOKE DETECTOR
** CEILING MOUNTED STROBE: 30' MAX AFF



ALARM APPLIANCE SPACING IN CORRIDORS

1 IN ALL CASES THE GENERAL CONTRACTOR SHALL BEAR RESPONSIBILITY FOR COMPLIANCE WITH THE CLEARANCES AND DIMENSIONS INDICATED ON THE ACCESSIBILITY STANDARDS DRAWING AND WITHIN THE BALANCE OF THE CONTRACT DOCUMENTS

2 THE SPECIFIC DIMENSIONS AND/ OR RANGES INDICATED IN THE ACCESSIBILITY STANDARDS DRAWING ARE A REGULATORY REQUIREMENT; NO ADDITIONAL TOLERANCES EITHER PLUS OR MINUS WILL BE ACCEPTED.

3 THE FULL TEXT OF THE ADA STANDARDS FOR GOVERNMENT ACCESSIBILITY DESIGN MAY BE FOUND AT THE WEBSITE: http://www.ada.gov

4 THE FULL TEXT OF THE ICC/ANSI A117.1 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES IS AVAILABLE THROUGH THE WEBSITE WWW.ICCSAFE.ORG

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Project: 21124-01

Issued	01/07/22
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Revisions	
1 PERMIT REVISIONS	2/11/22
2 BID SET	8/08/22

ACCESSIBILITY STANDARDS

Scale **1/4" = 1'-0"**
Drawn Author
Checked Checker

AG2.01

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

HAZMAT:
ARLINGTON COUNTY HAS CONTRACTED AEROSOL MONITORING & ANALYSIS, INC. (ENVIRONMENTAL CONSULTANTS) WHO HAVE IDENTIFIED HAZARDOUS MATERIALS IN THE EXISTING BUILDING. REFER TO THE REPORT OF INVESTIGATION, PREPARED BY AEROSOL MONITORING & ANALYSIS, INC. AND ISSUED BY ARLINGTON COUNTY.

ALL HAZARDOUS MATERIALS ARE TO BE ABATED BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES REFERENCED HEREIN AND SHALL BE PERFORMED AS ESTABLISHED BY THE ENVIRONMENTAL CONSULTANTS, IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.

KEYED DEMO NOTES:

D1	REMOVE EXISTING CAGE. PATCH AND REPAIR EXISTING SLAB.
D2	DEMOLISH PORTION OF EXISTING CONCRETE FLOOR SLAB TO ALLOW FOR BELOW SLAB PIPE WORK AND PREP FOR NEW CONCRETE SLAB AND PATCHING.
D3	SAW CUT AND REMOVE EXISTING CONCRETE RAMP - REFER STRUCTURAL DRAWINGS FOR CONCRETE PATCH.
D4	REMOVE PORTION OF MASONRY WALL FOR NEW OPENING. INSTALL NEW LINTEL PER STRUCTURAL SCHEDULE. SEE NEW WORK PLANS FOR SIZE OF OPENINGS. CAREFULLY REMOVE EXISTING MASONRY SO NEW MASONRY CAN BE TOOTHED-IN. TOOTH-IN MASONRY WITH SOLID CMU TO PROVIDE SMOOTH OPENING. ALL EXISTING MASONRY BLOCKS INDICATED TO BE REMOVED SHALL BE SALVAGED FOR LATER USE IN PATCHING TO MATCH. PATCH AND LEVEL FLOOR TO RECEIVE NEW FINISHES.
D5	REMOVE FLOOR CARPET, BASE AND MASTIC. CLEAN, PATCH AND PREPARE FLOOR TO RECEIVE NEW FINISHES.
D6	REMOVE EXISTING TOILET PARTITIONS AND ACCESSORIES.
D7	DUCTWORK ABOVE TO REMAIN
D8	REMOVE EXISTING COUNTERTOP, SINKS AND FAUCETS. PREPARE PLUMBING PIPING FOR NEW FIXTURES. COORDINATE WITH PLUMBING DRAWINGS.
D9	REMOVE DOOR(S) AND FRAME(S). (TO INCLUDE STOPS & HOLD OPENS WHERE THEY OCCUR)
D10	REMOVE DOOR ONLY, FRAME TO REMAIN AND BE REUSED WITH NEW DOOR.
D12	REMOVE EXISTING PLUMBING FIXTURES AND PIPING. SEE PLUMBING DRAWINGS.
D14	REMOVE EXISTING WATER HEATER.
D16	REMOVE EXISTING WALL TILE AND ACCESSORIES. PREP FOR NEW SCHEDULED FINISHES
D17	REMOVE EXISTING METAL LOCKERS AND BENCHES
D19	REMOVE EXISTING CASEWORK AND APPLIANCES. PATCH / REPAIR FLOOR AND WALL FINISH TO MATCH EXISTING
D20	REMOVE EXISTING DRINKING FOUNTAIN, PREPARE PIPING FOR NEW DRINKING FOUNTAINS. COORDINATE WITH MEP DRAWINGS.
D22	REMOVE EXISTING CASEWORK AND APPLIANCES. PATCH / REPAIR FLOOR AND WALL FINISH TO MATCH EXISTING.
D23	REMOVE EXISTING SLIDING/FOLDING PARTITIONS CEILING TRACK AND ASSOCIATED STRUCTURAL SUPPORT AND BULKHEAD.
D24	DEMOLISH EXISTING ROOF LADDER AND HATCH. REF SRTUCTURAL DRAWINGS.
D25	DEMOLISH EXISTING WASH STATION. REFER TO PLUMBING.
D28	REMOVE EXISITNG WATER COOLER AND PATCH WALL TO MATCH EXISTNIG.
D29	REMOVE EXISTING LOCKERS AND SALVAGE FOR REINSTALLATION.
D31	EXISTING ICE MAKER TO BE RELOCATED TO ROOM 128A - REF PLUMBING DRAWINGS.
D33	SEE CIVIL DRAWINGS FOR DEMOLITION OF EXTERIOR ITEMS.
D34	REMOVE EXISTING BENCH
D35	EXISTING STEEL COLUMNS AND CANOPY TO REMAIN. PREPARE TO RECEIVE NEW PAINT.
D37	REMOVE EXISTING RAILING.
D38	REMOVE WOODEN SHED. PATCH AND REPAIR SLAB.
D40	CAREFULLY REMOVE EXISTING LOCKERS AND SAVE FOR RE-INSTALLATION AFTER TILEWORK IS COMPLETE
D42	REMOVE PORTION OF EXISTING CMU PARTITION FOR NEW WORK. PATCH EXISTING CMU TO PROVIDE SMOOTH SUFRACE FOR NEW WORK.
D43	REMOVE PORTION OF EXISTING GWB PARITION FOR NEW WORK. PATCH AND REPAIR WHERE EXISTING TO REMAIN.
D44	REMOVE PORTION OF EXISTING GWB PARTITION FOR NEW OPENING. PATCH AND REPAIR EXISTING ADJACENT GWB SCHEDULED TO REMAIN.
D46	REMOVE EXISTING FLOOR TILE, TILE BASE, AND ASSOCIATED MORTAR BED AND PREP FLOOR AND WALL FOR SCHEDULED FINISH
D47	REMOVE AND REINSTALL EXISTING BENCH.
D48	REMOVE EXISTING SLAB AND PREPARE BASE FOR NEW SLAB ON GRADE. REF CIVIL DRAWINGS.
D49	CUT TO CLOSEST EXTISTING JOINT AND REMOVE EXISTING CONCRETE PAVING. PREPARE BASE TO RECEIVE NEW CONCRETE SLAB ON GRADE. REF CIVIL DRAWINGS.
D50	REMOVE MECHANICAL DIFFUSER AND TOOTH-IN CMU TO MATCH EXISTING ADJACENT CONSTRUCTION.
D51	REMOVE EXISTING VINYL TILIE, BASE AND ANY MASTIC. PATCH, PREPARE AND LEVEL FLOOR AS REQUIRED TO PROVIDE A SMOOTH HOMOGENEOUS SURFACE READY TO RECEIVE NEW FINISHES

DEMOLITION LEGEND:

- D28 — KEYED DEMO NOTE
- DEMO DOOR AND FRAME
- DEMO DOOR ONLY - FRAME TO REMAIN
- DEMO PARTITION
- EXISTING PARTITION TO REMAIN
- AREA NOT IN PROJECT SCOPE

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Revisions		
1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

DEMOLITION FLOOR PLAN

Scale **1/8" = 1'-0"**
Drawn DF
Checked MM

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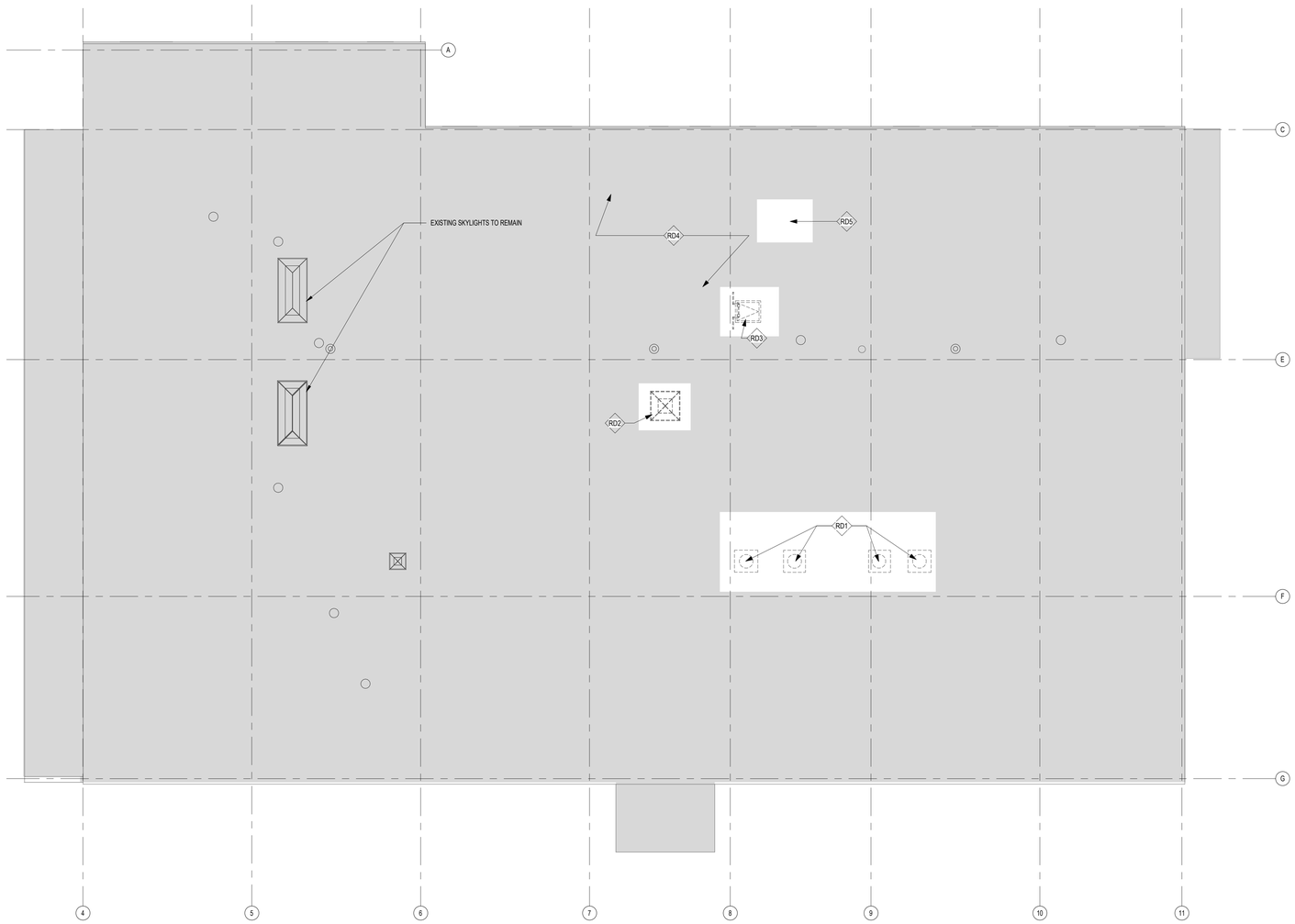

1 DEMOLITION ROOF PLAN
1/8" = 1'-0"

KEYED DEMO NOTES:

RD1	DEMO AS REQUIRED FOR NEW TUBE SKYLIGHTS
RD2	DEMO EXISTING SKYLIGHT
RD3	REMOVE EXISTING ROOF HATCH & INFILL OPENING
RD4	REFER TO MECHANICAL ELECTRICAL AND PLUMBING DRAWINGS FOR EXTENT OF ADDITIONAL WORK
RD5	MODIFY ROOFING AS NECESSARY FOR MECHANICAL WORK -REF MECHANICAL DWGS

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BID SET

Revisions		
1	PERMIT REVISIONS	2/11/22

DEMO ROOF PLAN

Scale **1/8" = 1'-0"**
Drawn MM
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BID SET

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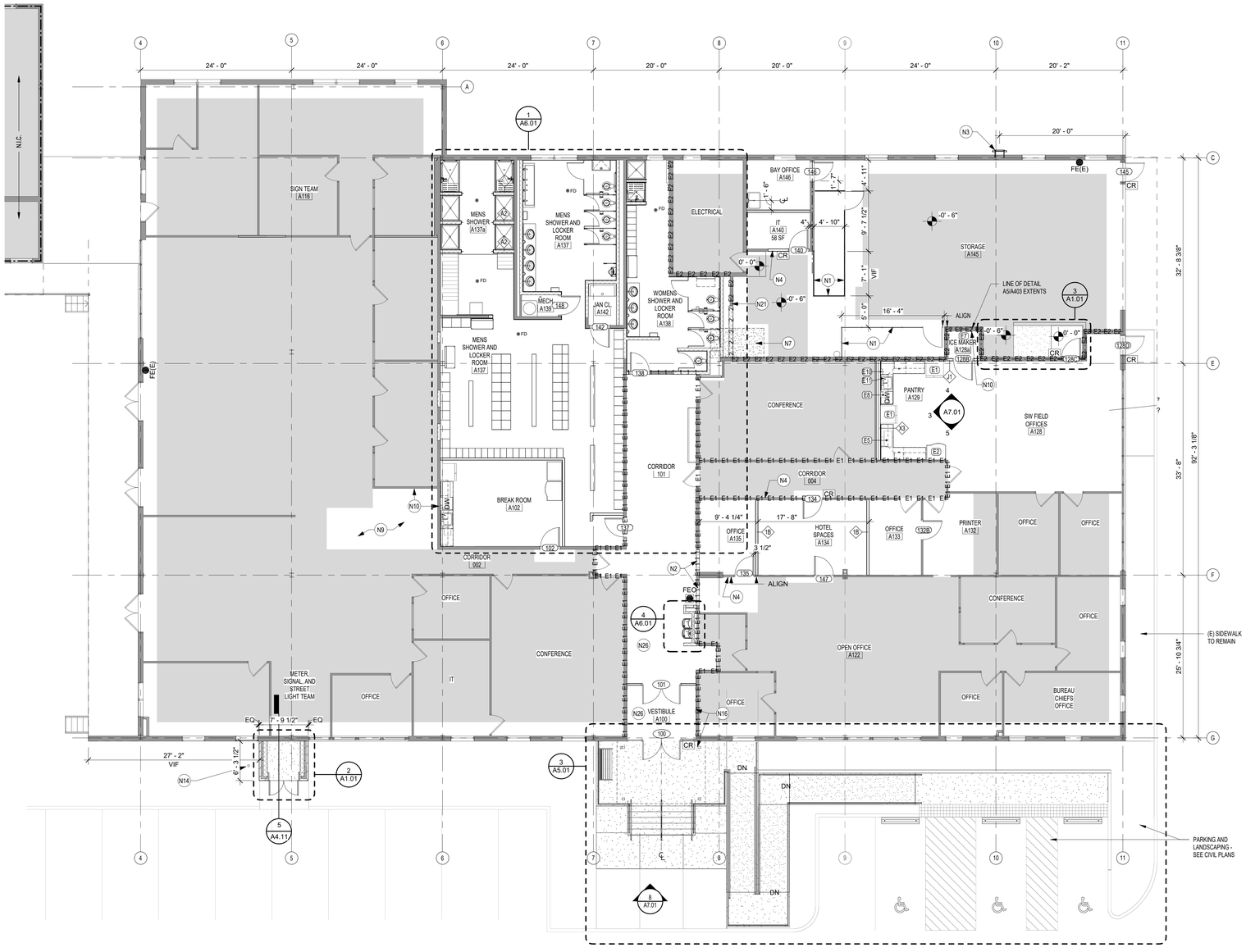
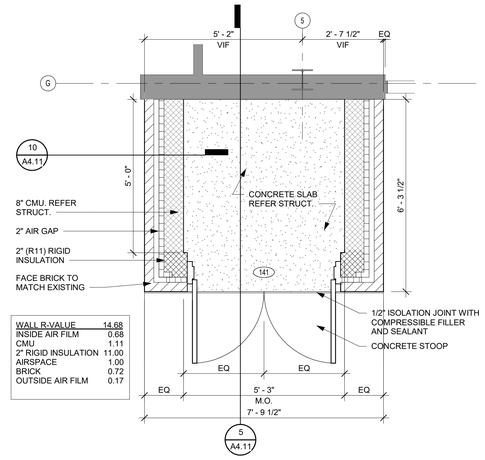
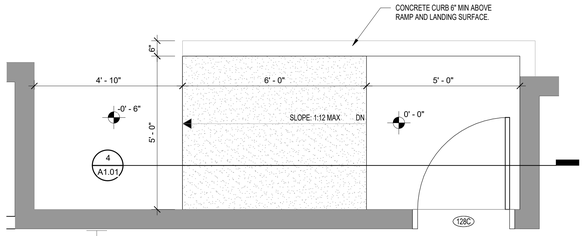


1 FLOOR PLAN
1/8" = 1'-0"

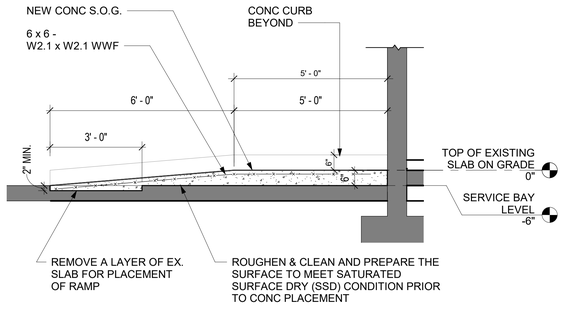


WALL R-VALUE	14.68
INSIDE AIR FILM	0.68
CMU	1.11
2" RIGID INSULATION	11.00
AIRSPACE	1.00
BRICK	0.72
OUTSIDE AIR FILM	0.17

2 WATER SERVICE CLOSET
1/2" = 1'-0"



3 SERVICE BAY RAMP
1/2" = 1'-0"



4 SERVICE BAY RAMP SECTION
1/2" = 1'-0"

KEYED WORK NOTES:

N1	NEW CHAIN LINK FENCE AND GATES. TO MATCH SIMILAR CONSTRUCTION AND HEIGHT OF PREVIOUSLY DEMOED FENCE AND GATE.
N2	TOOTH-IN EXISTING OPENING IN CMU WITH NEW CMU TO MATCH EXISTING. FINISH TO MATCH EXISTING. MAINTAIN MIN FIRE RATING AS INDICATED.
N3	LADDER LOCATED IN BETWEEN WINDOWS AND 10' AWAY FROM CORNER OF BUILDING MINIMUM. REF SPEC.
N4	INFILL EXISTING OPENING WITH METAL STUDS, BATT SOUND INSULATION, AND GWB TO MATCH EXISTING ADJACENT WALL THICKNESS. MATCH EXISTING ADJANET BASE AND CHAIR RAIL AS REQUIRED.
N5	PROVIDE SCHLUTER CORNER TRIM AT ALL TILE OUTSIDE CORNERS - TYP
N6	ADA COMPLIANT SHOWER - SLOPE TO DRAIN WITH ADA COMPLIANT TRHRESHOLD SIMILAR TO ZERO #8452A.
N7	PATCH EXISTING CONCRETE TO PROVIDE SMOOTH AND HOMOGENIUS SURFACE TO MATCH EXISTING ADJACENT CONCRETE.
N8	PATCH AND REPAIR SLAB AFTER UNDERGROUND PLUMBING IS INSTALLED.
N9	REMOVE ALL RESIDUES / ADHESIVES. PATCH & REPAIR EXISTING FLOORING AS REQUIRED TO MATCH ADJACENT.
N10	PATCH AND PAINT EXISTING WALL TO MATCH ADJACENT.
N11	CLOSURE AT FACE AND ABOVE.
N12	REINSTALL EXISTING LOCKERS.
N13	EXISTING CONCRETE PAD TO REMAIN
N14	CONDUIT TO ELECTRICAL ROOM. REFER TO ELECTRICAL DRAWINGS.
N15	PROVIDE 2HR RATED WALL ASSEMBLY.
N16	DOOR OPERATOR PUSH PLATE.
N17	NEW TILE TO COVER THE WALL AREA WHERE THE EXISTING TILES ARE REMOVED - MATCH HEIGH.
N18	PLUMBING FIXTURE -REF PLUMBING DRAWINGS
N19	PROVIDE 4" SHOWER CURB
N20	NEW DRAIN. REFER TO PLUMBING DRAWINGS. COORDINATE TILE SLOPING TO DRAIN - TYP.
N21	VERIFY WHETHER THE EXISTING WALL IS 2HR FIRE RATED. REPLACE WITH NEW CMU 2HR RATED WALL IF NECESSARY.
N22	PROVIDE AND INSTALL FIRE EXTINGUISHER AND RECESSED FIRE EXTINGUISHER CABINET
N23	CASEWORK - REF ELEVATIONS
N25	TOOTH-IN EXISTING OPENING IN CMU WITH NEW CMU TO MATCH EXISTING. FINISH TO MATCH EXISTING
N26	PROVIDE UP TO 3" TOPPING SLAB IN THIS AREA TO INFILL PREVIOUS MORTAR BED

SCHEDULE - SPECIALTY EQUIPMENT

Type Mark	Manufacturer	Model	Description	Installation / Procurement
E1	HAIER	HRQ16N3BGS	REFRIGERATOR	CONTRACTOR PROVIDED AND INSTALLED
E2		SODA	VENDING MACHINE - SODA	OWNER PROVIDED AND INSTALLED
E3		CANDY	VENDING MACHINE - CANDY	OWNER PROVIDED AND INSTALLED
E4	Bosch	SGX68U55UC	DISHWASHER	CONTRACTOR PROVIDED AND INSTALLED
E5	General Electric	JES1657SMSS	MICROWAVE	CONTRACTOR PROVIDED AND INSTALLED
E6			COPIER	OWNER PROVIDED AND INSTALLED
E7	EXISTING	EXISTING	ICE MAKER	EXISTING TO BE RELOCATED
E8	INFINITY UV		HOT AND CHILLED WATER DISPENSER	CONTRACTOR PROVIDED AND INSTALLED. REQUIRES WATER LINE
E9	HAIER	HRQ16N3BGS	REFRIGERATOR W/ WATER AND ICE	CONTRACTOR PROVIDED AND INSTALLED.
E10	BOBRICK	B-2621	SURFACE-MOUNTED PAPER TOWEL DISPENSER	CONTRACTOR PROVIDED AND INSTALLED
E11	BOBRICK	B-8226	LAVATORY-MOUNTED SOAP DISPENSER	CONTRACTOR PROVIDED AND INSTALLED

NEW WORK LEGEND:

- N1 — KEYED NEW WORK NOTE
- EXISTING DOOR TO REMAIN
- NEW DOOR AND FRAME
- NEW DOOR, FRAME, AND SIDE LITE
- NEW FRAMELESS GLASS DOOR
- NEW PARTITION
- EXISTING PARTITION
- NO WORK IN THIS AREA
- DIMENSION FROM FACE OF FINISH
- FEC — FIRE EXTINGUISHER CABINET

REFER TO AG.01 FOR GENERAL NEW WORK NOTES
REFER TO A8.01 FOR PARTITION TYPES
REFER TO F2.01 FOR FINISH PLANS

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FLOOR PLAN. EQUIPMENT SCHEDULE

Scale **As indicated**
Drawn DF
Checked MM

A1.01

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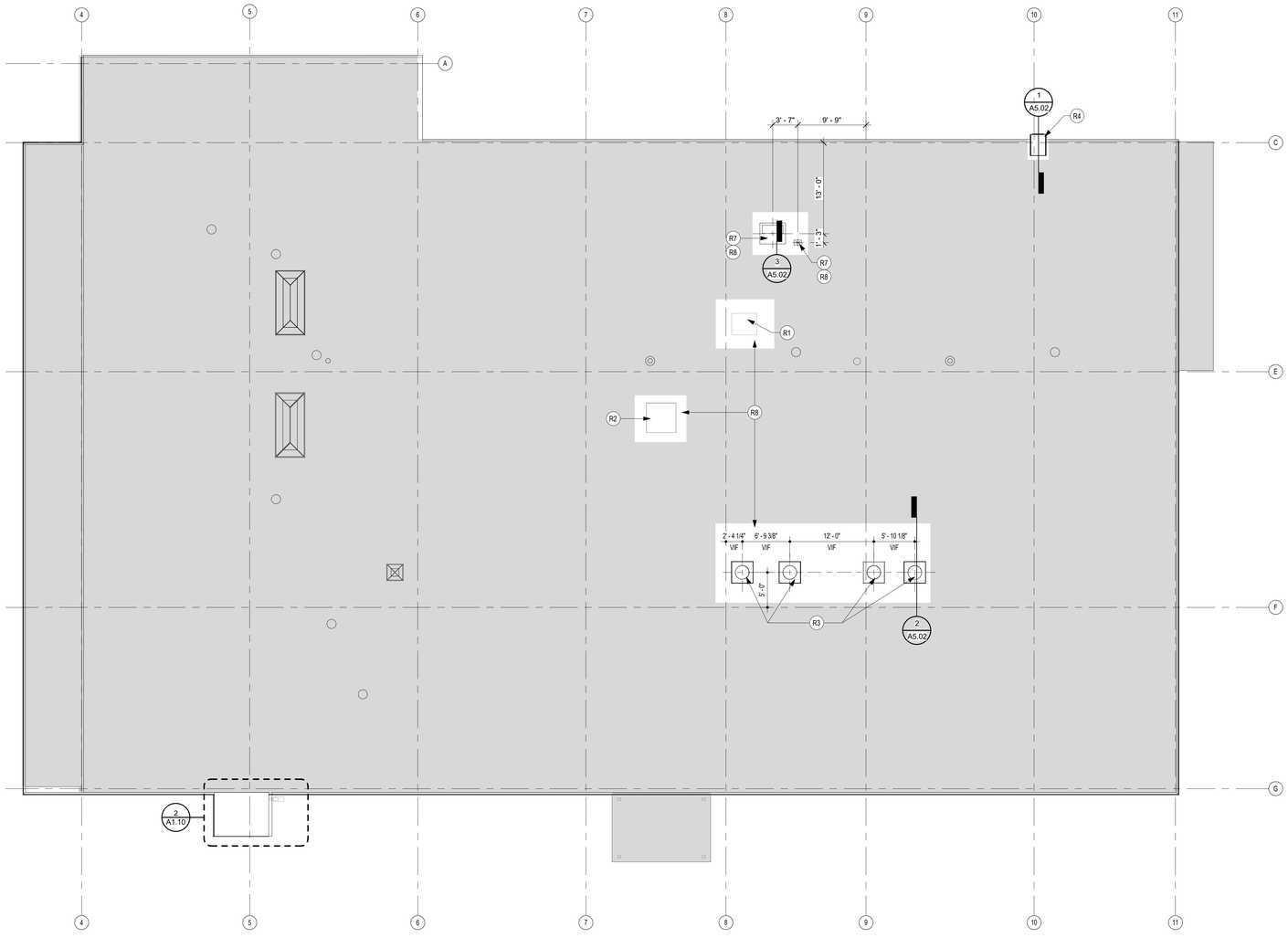


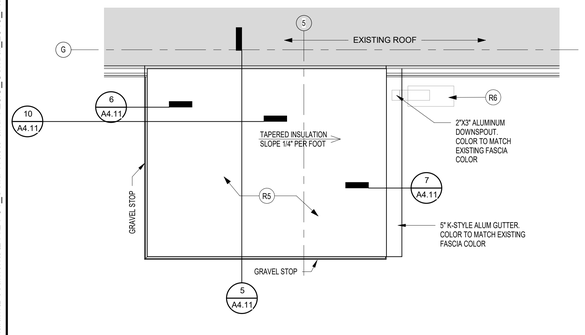
1 ROOF PLAN
1/8" = 1'-0"

NOTE: GC TO USE ONE OF THE TWO PREVIOUS CONTRACTORS THAT HAS WORKED ON THE ROOF.

NASTOS CONSTRUCTION, INC

OR

SIMPSON UNLIMITED



KEYED ROOF NOTES:

R1	PATCH EXISTING ROOF HATCH OPENING WITH METAL ROOF DECK, ROOF INSULATION, PROTECTION BOARD, AND BUILT-UP ASPHALT BALLASTED ROOF SYSTEM TO MATCH EXISTING -REF STRUCTURAL.
R2	PATCH EXISTING SKYLIGHT OPENING WITH METAL ROOF DECK, ROOF INSULATION, PROTECTION BOARD, AND BUILT-UP ASPHALT BALLASTED ROOF SYSTEM TO MATCH EXISTING -REF STRUCTURAL
R3	NEW TUBULAR SKYLIGHTS ON INSULATED CURB. REF STRUCTURAL DWGS. COORDINATE EXACT LOCATION WITH EXISTING STRUCTURE.
R4	ROOF LADDER WITH TRANSFER PLATFORM AND LOCKING ACCESS DOOR.
R5	TPO OVER TAPERED INSULATION. SLOPE 1/4" / FT TO GUTTER
R6	DOUNSPOUT SPLASH BLOCK
R7	REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EXTENT OF ADDITIONAL WORK
R8	PATCH AND REPAIR EXISTING BALLASTED BUILT-UP ROOF AS INDICATED. PROVIDED TAPERED INSULATION AND PROTECTION BOARD TO MATCH EXISTING.

ROOF LEGEND:

N1	NEW WORK KEYED NOTE
RD	ROOF DRAIN
VTR	VENT THRU ROOF (REFER KEYNOTE R#)
HS	HOT STACK
EP	ELECTRICAL OR PLUMBING SYSTEM PENETRATION
DS	DOWNSPOUT - CONDUCTOR HEAD AND SUPPER WHERE NOTED
	MECHANICAL UNIT - VARIES IN SIZE AND SHAPE
	EQUIPMENT DISCONNECT SUPPORT
	ROOF HATCH
	WALKWAY PAD
	SLOPE
	CRICKET / SADDLE (1/2" : 1'-0" SLOPE)
EJ	EXPANSION JOINT
EJ	VERTICAL CONSTRUCTION JOINT OR VERTICAL EXPANSION JOINT
	ROOF DECK PATCH TO MATCH (E) ADJACENT DECK
	TAPERED ROOF AREAS
	NO WORK IN THIS AREA

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Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O - INTERIOR RENOVATION
4300 S. 29TH STR. ARLINGTON, VA, 22206

Project: 21124-01

Issued 01/07/22

BID SET

Revisions		
1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

ROOF PLAN

Scale **As indicated**
Drawn MM
Checked MM

A1.10

BID SET

8/5/2022 1:45:58 PM
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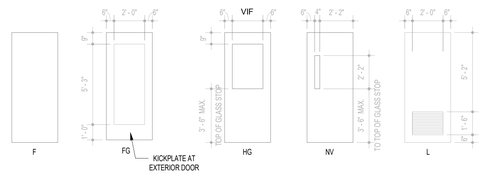
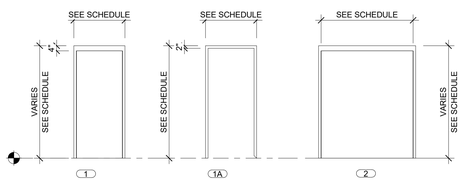
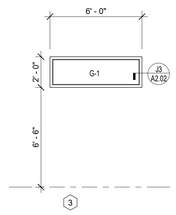
DOOR TYPES



NOTE: (UNLESS OTHERWISE NOTED)
1. ALL GLASS IN EXTERIOR DOORS TO BE G-3
2. ALL GLASS IN INTERIOR DOORS TO BE G-2



DOOR FRAME
1/4" = 1'-0"



WINDOW TYPES
1/4" = 1'-0"

WINDOW NOTES

NOTES APPLY TO ALL FRAME ELEVATION SHEETS

1. VERIFY MASONRY & ROUGH OPENINGS, INCLUDING BUT NOT LIMITED TO STRUCTURAL LINTEL LOCATIONS, PRIOR TO FABRICATION.
2. COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL WINDOWS, INCLUDING SUBFRAMES, AS REQUIRED.
3. CONTINUOUSLY SEAL ALL SIDES OF WINDOW AND SUBFRAMES ABUTTING DISSIMILAR MATERIALS AT JAMBS, HEADS, AND SILLS, TYPICALLY.
4. PROVIDE APPROPRIATE ANCHORAGE SYSTEM FOR ALL CONDITIONS TO SECURE WINDOWS IN ROUGH OPENINGS. PROVIDE SUBFRAMING AS SHOWN ON DETAILS AND/OR SPECIFIED.
5. SEE HEAD, JAMB, AND SILL DETAIL SHEET FOR MORE INFORMATION.
6. COORDINATE FRAMES WITH PLAN WHEN MORE THAN ONE CONSTRUCTION DETAIL IS REFERENCED.
7. AS REQUIRED FOR DESIGN LOADING, WINDOW MANUFACTURER SHALL PROVIDE MULLION REINFORCING AND VERTICAL EXTENSIONS UP TO STRUCTURE ABOVE (ATTACHMENT TO STRUCTURE BY MANUFACTURER). SEE SECTIONS AND DETAILS FOR ADDITIONAL WORK RELATING TO WINDOW SYSTEM.
8. OVERALL DIMENSIONS OF WINDOWS ARE APPROXIMATE. CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL WINDOWS, INCLUDING SUBFRAMES, AS REQUIRED. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON OTHER SHEETS, PRIOR TO FABRICATION.
9. PROVIDE HORIZONTAL BLINDS AT ALL INTERIOR OPENINGS INCLUDING DOOR SIDELITES, BUT EXCLUDING DOOR LITES UNLESS OTHERWISE NOTED.
10. COORDINATE WINDOW SYSTEMS WITH AIR BARRIER TRANSITION MEMBRANE SYSTEM AND MANUFACTURER-RECOMMENDED DETAILS FOR A COMPLETE AIR BARRIER SYSTEM.

HOLLOW METAL FRAME NOTES

1. CONTRACTOR SHALL VERIFY ALL MASONRY AND ROUGH OPENINGS WITH HOLLOW METAL FRAME SIZES.
2. CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURER AND INSTALL HOLLOW METAL FRAMES. VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON OTHER SHEETS.
3. CONTINUOUSLY SEAL ALL SIDES OF HOLLOW METAL FRAMES ABUTTING DISSIMILAR MATERIALS AT JAMBS, HEADS, AND SILLS, TYPICALLY (EXCEPT AT DOOR SILLS UNLESS OTHERWISE NOTED).
4. TYPICAL WIDTH OF RETURNS ON HOLLOW METAL FRAMES IS 1 15/16" AT HEADS, JAMBS, AND SILLS. CENTER SECTION OF FRAME VARIES IN WIDTH WITH RESPECTIVE WALL TYPE. SEE PLANS.
5. SEE HEAD, JAMB, AND SILL DETAIL SHEET FOR MORE INFORMATION.
6. FILL ALL HOLLOW METAL (HM) FRAMES ABUTTING MASONRY WITH GROUT. FILL INTERMEDIATE MEMBERS AS SHOWN IN DETAILS (TYPICAL).
7. PROVIDE HORIZONTAL BLINDS AT ALL INTERIOR OPENINGS INCLUDING DOOR SIDELITES, BUT EXCLUDING DOOR LITES UNLESS OTHERWISE NOTED.

GLASS TYPE KEY

G-1 1/4" CLEAR GLASS

G-2 1/4" CLEAR TEMPERED GLASS

G-3 1" INSULATING GLASS; CONSISTING OF

1/4" TEMPERED TINTED GLASS, EXTERIOR LITE
1/2" AIR SPACE, AND
1/4" TEMPERED GLASS WITH LOW E COATING

NUMBERED REMARKS

NOTE 1: PROVIDE NO HORIZONTAL LOUVER BLINDS AT THIS FRAME OPENING.

NOTE 2: PROVIDE MANUAL TRANSLUCENT ROLLER SHADES AT THIS FRAME OPENING.

TYPICAL DETAILS

DOORS NOT LISTED ON THE SCHEDULE SHALL HAVE THE TYPICAL FINISHES LISTED BELOW:

DOOR:		FRAME:	
WIDTH:	3'-0"	MATERIAL:	HM
HEIGHT:	7'-0"	TYPE:	1
THICKNESS:	1-3/4"	JAMB:	J1
TYPE:	F	HEAD:	H1
MATERIAL:	SCWD	SILL:	NONE
DOOR LABEL:	NONE		

TYPICAL DOOR NOTES

1. COORDINATE AND PROVIDE HARDWARE AS DETAILED IN THE SPECIFICATIONS OR, IF NOT SPECIFIED, PROVIDE HARDWARE (OF EQUAL QUALITY TO THAT SPECIFIED, AND MOST SIMILAR IN FUNCTION TO TYPE OF DOOR) REQUIRED FOR DOORS TO OPERATE AND APPEAR AS INTENDED ON DRAWINGS.
2. PROVIDE BRUSHED STAINLESS STEEL KICK PLATES ON PUSH SIDE OF DOORS WITH PUSH BARS AND/OR CLOSER DEVICES. KICK PLATE SHALL BE INSET 1/2" FROM EACH SIDE OF DOOR, AND MAXIMUM 8" HIGH OR 1/2" BELOW EDGE OF GLASS LIGHT (IF PRESENT).
3. PROVIDE EXPOSED HARDWARE WITH BRUSHED-IN FINISH AND "SILVER" METALLIC IN COLOR (ALUMINUM, CHROME, OR STEEL).
4. WHEN EXPOSED CLEAR FINISHED WOOD DOORS ARE PAIRED, TAKE CARE TO SELECT MATCHING GRAIN TYPE AND COLOR FOR EACH DOOR IN PAIR.
5. IF CONFLICT EXISTS BETWEEN DOOR RATING AS SCHEDULED AND WALL/PARTITION TYPE FIRE RATING AS SHOWN ON PLANS, PROVIDE DOOR(S) WITH THE GREATER FIRE RATING OF THE TWO.
6. VERIFY ALL DIMENSIONS AND CLEARANCES, AND COORDINATE UNDERCUTTING REQUIRED TO CLEAR ADJACENT FLOOR MATERIALS.
7. SEE FRAME ELEVATION SHEETS FOR FRAME TYPES. (BOTH H.M. AND ALUM. STOREFRONT) AND GLASS TYPE KEY.
8. IF A DISCREPANCY EXISTS BETWEEN THE DOOR SCHEDULE REMARKS AND THE HARDWARE SCHEDULE IN THE SPECIFICATIONS, PROVIDE THE HARDWARE NEEDED TO MEET THE MORE STRINGENT OF THE REQUIREMENTS.
9. SEE SPECIFICATIONS FOR SCHEDULED HARDWARE SETS. SEE SPECIFICATIONS FOR HARDWARE SETS INDICATED FOR PACKAGED DOOR SYSTEM.
10. PROVIDE CONTINUOUS WEATHERSTRIPPING AND DOOR BOTTOM SEALS AT EXTERIOR DOORS AS SPECIFIED.

NOTES FOR REMARKS COLUMN

NOTE: SEE SPECIFICATIONS FOR ADDITIONAL DOOR INFORMATION.
REFERENCE SPECIFICATIONS FOR DETAILED HARDWARE REQUIREMENTS.

1. PROVIDE ADA COMPLIANT CLOSER (ONE CLOSER FOR EACH DOOR OF PAIR).
2. PROVIDE PANIC HARDWARE.
3. NOT USED
4. PROVIDE ADA AUTOMATIC SWING DOOR OPERATOR WITH PUSH BUTTON CONTROLS AND ASSOCIATED SIGNAGE.
5. NOT USED

6. PROVIDE WITH HOLD OPEN FEATURE IN CLOSER.
7. PROVIDE WEATHERSTRIPPING ON ALL SIDES, TOP AND BOTTOM OF DOOR.
8. PROVIDE DOOR WITH INSULATED CORE.
9. PROVIDE HARDWARE WITH PRIVACY SET.
10. PROVIDE FLUSH BOLTS ON INACTIVE LEAF.
11. PROVIDE SOUND SEALS ON TOP AND SIDES WITH DROP SEAL AT DOOR BOTTOM.
12. NOT USED
13. PROVIDE WITH PUSH / PULL OPERATION.
14. NOT USED
15. NOT USED
16. NOT USED
17. NOT USED
18. NOT USED
19. NOT USED
20. NOT USED
21. NOT USED
22. PROVIDE WITH CARD READER AND ASSOCIATED HARDWARE.
23. NOT USED
24. SECURITY SYSTEM DOOR SWITCH AT HM FRAME - COORDINATE WITH ELECTRICAL.
25. PROVIDE WITH MAGNETIC LOCKS AND OPEN RELEASE BUTTON - CONNECT TO FIRE ALARM SYSTEM TO OPEN UPON ACTIVATION - SEE ELECTRICAL DRAWINGS.
26. PROVIDE FOOT PULL ON INTERIOR SIDE OF DOOR
27. MODIFY EXISTING FRAME AS REQUIRED FOR NEW HARDWARE

DOOR AND FRAME SCHEDULE

LOCATION		# OF		DOOR					FRAME					RATING	DOOR	
				PANEL			OPENING				DETAILS					
MARK	ROOM NAME	LEAFS	FINISH	TYPE	MATL	THICK	WIDTH	HEIGHT	TYPE	MATL	HEAD	JAMB	SILL	(MIN)	HARDWARE	REMARKS
Level 1																
100	VESTIBULE	2	PREFINISHED	FG	ALUM	1 3/4"	6' - 0"	7' - 0"	EXIST	ALUM	EXIST	EXIST	EXIST		442	1, 2, 4, 7, 22, 24, 27
101	VESTIBULE	2	PREFINISHED	FG	ALUM	1 3/4"	6' - 0"	7' - 0"	EXIST	ALUM	EXIST	EXIST	EXIST		443	1, 4, 7, 13, 27
102	BREAK ROOM	1	PAINT	FG	SWCD	1 3/4"	3' - 0"	7' - 0"	1	HM	H1	J1	-		111	
128B	ICE MAKER	1	PAINT	L	HM	1 3/4"	3' - 0"	7' - 0"	1A	HM	H2	J2	-		110	VERIFY ICEMAKER FITS THROUGH OPENING
128C	STORAGE	1	PAINT	F	HM	1 3/4"	3' - 0"	7' - 0"	1	HM	H1	J1	S1	90 MIN.	816	1, 7, 8, 22, 24,
128D	SW FIELD OFFICES	1	PAINT	F	HM	1 3/4"	3' - 0"	7' - 0"	EXIST	HM	EXIST	EXIST	EXIST		916	1 , 7 ,8 ,22 ,24, 27
132B	OFFICE	1	PAINT	NV	SWCD	1 3/4"	3' - 0"	7' - 0"	1A	HM	H2	J2	S2		517	1, 11
134	CORRIDOR	1	PAINT	NV	SWCD	1 3/4"	3' - 0"	7' - 0"	1A	HM	H2	J2	S2	20 MIN.	815	1, 22, 24,
135	OFFICE	1	PAINT	NV	SWCD	1 3/4"	3' - 0"	7' - 0"	1A	HM	H2	J2	-		510	
137	CORRIDOR	1	PAINT	F	SWCD	1 3/4"	3' - 0"	7' - 0"	1	HM	H1	J1	-	20 MIN.	210	GALVANIZED FRAME, 1, 13,26
138	CORRIDOR	1	PAINT	F	SWCD	1 3/4"	3' - 0"	7' - 0"	1	HM	H1	J1	-	20 MIN.	210	GALVANIZED FRAME, 1, 13,26
140	IT	1	PAINT	F	HM	1 3/4"	3' - 0"	7' - 0"	1A	HM	H2	J2	-		815	1, 22, 24,
141	WATER SERVICE	2	PAINT	F	HM	1 3/4"	4' - 8"	7' - 8"	2	HM	6/A412	7/A412	1/A2.02		823	7, 8, 10
142	MENS SHOWER AND LOCKER ROOM	1	PAINT	F	HM	1 3/4"	3' - 0"	7' - 0"	1	HM	H1	J1	-		812	GALVANIZED DOOR AND FRAME 1, 6
145	STORAGE	1	PAINT	HG	HM	1 3/4"	3' - 0"	7' - 0"	EXIST	HM	EXIST	EXIST	EXIST		916	1 , 7 ,8 ,22 ,23, 27
146	STORAGE	1	PAINT	HG	HM	1 3/4"	3' - 0"	7' - 0"	1A	HM	H2	J2	-		517	
147	OPEN OFFICE	1	PAINT	NV	SWCD	1 3/4"	3' - 0"	7' - 0"	1	HM	H2	J2	S2		815	
148	MECH	1	PAINT	F	HM	1 3/4"	3' - 0"	7' - 0"	1	HM	H1	J1			812	GALVANIZED DOOR AND FRAME 1, 6
		21														

DOOR HARDWARE SCHEDULE

QUANTITY	HARDWARE
HARDWARE SET 110	
	HINGES BB1279
1 EA	PASSAGE FUNCTION LATCHSET ND10S SCHLAGE
1 EA	STOP ROCKWOOD
HARDWARE SET 111	
	HINGES BB1279 HAGER
1 SET	PASSAGE FUNCTION LATCHSET ND10S SCHLAGE
1 EA	SURFACE CLOSER 4040XP-HLCN
1 EA	KICK PLATE 8400 IVES
1 EA	STOP ROCKWOOD
HARDWARE SET 210	
	HINGES BB1199-32D HAGER
1 EA	PUSH PLATE 8200 IVES
1 EA	PULL PLATE 8302 (TB PULL & CONCEAL FASTENERS UNDER PUSH PLATE) IVES
1 EA	SURFACE CLOSER 4040XP S SRI FINISH LCN
1 EA	KICK PLATE 8400 IVES
1 EA	FOOT PULL FP03 FOOTPULL
1 EA	STOP ROCKWOOD
	GALVANIZE FRAME
HARDWARE SET 442	
2 SETS	CONTINUOUS HINGES 112HD-TW8 (FACTORY-FINISH TO MATCH STOREFRONT) IVES
1	ELECTRIFIED DEVICE RX-QEL-9847EO VON DUPRIN
1	CYLINDER AND CORE - AS REQUIRED SCHLAGE
1	ELECTRIFIED EXIT DEVICE RX-QEL-XP9847NL-OP LBR VON DUPRIN
1	CYLINDER AND CORE - AS REQUIRED SCHLAGE
2	PULLS 8190hd-2 X TYPE O MOUNTING IVES
1	POWER OPERATOR 9542 X LH (REQUIRES 120 VAC) LCN
1	HARDWIRED JAMB-MOUNTED ACTUATOR 8310-818T (PUSH SIDE) LCN
1	RF RECEIVER 8310-865 (FOR WIRELESS ACTUATOR) LCN
1	OPERATOR INTERFACE MODULE BR3 (FOR ACCESS CONTROL SYSTEM INTERFACE) BEA
1	SURFACE CLOSER 4040XP-SCNS X 30 X 61 LCN
1 SET	WEATHER-STRIPPING - HEAD, JAMBS & MEETING STILE DOOR MANUFACTURER
1	THRESHOLD 896S NATIONAL GUARD
2	SILL SWEEPS 200N (GREY NEOPRENE INSERT) NATIONAL GUARD
2	MAGNETIC DOOR CONTACTS 1076D INTERLOGIX
1	1 POWER SUPPLY SECURITY SYSTEM INTEGRATOR
1	STOP 466 (POER OPERATOR LEAF) ROCKWOOD
FUNCTION:	Function: Door is interfaced with Access Control System for automatic locking and unlocking. Door position status monitored through Access Control System. When door is secured: Card reader shunts door contacts, retracts electric latches and enables outside actuator; pressing actuator activates power operator. Pressing inside actuator shunts door contact, retracts electric latch and activates power operator. Depressing crash bar shunts door contact. Outside actuator should not function without proper signal from Access Control and Access Control System. When door is unsecured: Door contacts are shunted, electric latches are retracted and both actuators are functional. Pressing either actuator activates power operator.
HARDWARE SET 443	
2 SETS	CONTINUOUS HINGES 112HD-TW8 (FACTORY-FINISH TO MATCH STOREFRONT) IVES
2	PUSH / PULL 9190HD -US32D - IVES
1	POWER OPERATOR 9542 X LH (REQUIRES 120 VAC) LCN
1	HARDWIRED JAMB-MOUNTED ACTUATOR 8310-818T (PUSH SIDE) LCN
1	RF RECEIVER 8310-865 (FOR WIRELESS ACTUATOR) LCN
1	OPERATOR INTERFACE MODULE BR3 (FOR ACCESS CONTROL SYSTEM INTERFACE) BEA
1	SURFACE CLOSER 4040XP-SCNS X 30 X 61 LCN
1	STOP 466 (POER OPERATOR LEAF) ROCKWOOD
1	THRESHOLD 896S NATIONAL GUARD
1	SILL SWEEPS 200N (GREY NEOPRENE INSERT) NATIONAL GUARD
1	DOOR POSITION SWITCH 1076D -INT
HARDWARE SET 510	
	HINGES BB1279 HAGER
1 EA	OFFICE FUNCTION LOCKSET ND50XD SCHLAGE
1 EA	CYLINDER CORE - AS REQUIRED SCHLAGE
1 EA	STOP ROCKWOOD

DOOR HARDWARE SCHEDULE

QUANTITY	HARDWARE
HARDWARE SET 517	
	HINGES BB1279 HAGER
1 EA	OFFICE FUNCTION LOCKSET ND50XD SCHLAGE
1 EA	CYLINDER CORE - AS REQUIRED SCHLAGE
1 EA	SURFACE CLOSER 4040XP-EDA LCN
1 SET	SOUND SEALS 5075CL - HEAD 7 JAMBS NATIONAL GUARD
1 EA	AUTOMATIC DOOR BOTTOM 522N NATIONAL GUARD
1 EA	STOP ROCKWOOD
HARDWARE SET 812	
	HINGES BB1191-32D HAGER
1 EA	STOREROOM FUNCTION LOCKSET ND96XD SCHLAGE
1 EA	CYLINDER CORE - AS REQUIRED SCHLAGE
1 EA	KICK PLATE 8400 IVES
1 EA	STOP ROCKWOOD
	GALVANIZED DOOR AND FRAME
HARDWARE SET 815	
	HINGES BB1279 (ETW AT CENTER HINGE) HAGER
1 EA	ELECTRIFIED LOCKSET ND96XDEU-RX - FSE SCHLAGE
1 EA	CYLINDER CORE - AS REQUIRED SCHLAGE
1 EA	SURFACE CLOSER 4040XP / 4040XP-EDALCN
1 EA	MAGNETIC DOOR CONTACT 1076D INTERGRATOR
1 EA	CARD READER SECURITY SYSTEM INTEGRATOR
1 EA	POWER SUPPLY SECURITY SYSTEM INTEGRATOR
1 EA	STOP ROCKWOOD
	Function: Card reader shunts door contact and releases electrified lever trim. Turning inside lever shunts door contact. Door position status monitored through Access Control System
HARDWARE SET 816	
	HINGES BB1191-32D (ETW AT CENTER HINGE) HAGER
1 EA	ELECTRIFIED LOCKSET ND96XDEU-RX - FSE SCHLAGE
1 EA	CYLINDER CORE - AS REQUIRED SCHLAGE
1 EA	SURFACE CLOSER 4040XP-H-SCNS LCN
1 EA	CLOSER MOUNTING BRACKET 328SPB (FIELD-PAINT TO MATCH FRAME) ZERO
1 EA	KICK PLATE 8400 IVES
1 SET	WEATHER-STRIPPING 110N - HEAD & JAMBS NATIONAL GUARD
1 EA	THREASHOLD 896S NATIONAL GUARD
1 EA	SILL SWEEP 200N - PULL SIDE NATIONAL GUARD
1 EA	MAGNETIC DOOR CONTACT 1076D INTERLOGIX
1 EA	CARD READER SECURITY SYSTEM INTEGRATOR
1 EA	POWER SUPPLY SECURITY SYSTEM INTEGRATOR
	Function: Card reader shunts door contact and releases electrified lever trim. Turning inside lever shunts door contact. Door position status monitored through Access Control System.
Hardware set 823	
	HINGES BB1191-32D HAGER
1 EA	STOREROOM FUNCTION LOCKSET ND96XD SCHLAGE
1 EA	CYLINDER CORE - AS REQUIRED SCHLAGE
2 EA	FLUSH BOLTS 555 ROCKWOOD
1 EA	DUST STRIKE 570 ROCKWOOD
1 SET	WEATHER-STRIPPING 137SA - HEAD & JAMBS NATIONAL GUARD
1 EA	THREASHOLD 896S NATIONAL GUARD
1 EA	MEETING STILE GASKET 109NA (PULL SIDE OF ACTIVE LEAF) NATIONAL GUARD
2 EA	SILL SWEEPS 200NA NATIONAL GUARD
1 EA	RAIN DRIP 16A NATIONAL GUARD
2 EA	OVERHEAD STOPS 90H X 110-DEGREES GLYNN-JOHNSON
2 EA	STOP MOUNTING BRACKETS 328SPB(FIELD-PAINT TO MATCH FRAME) ZERO
HARDWARE SET 916	
	HINGES BB1191-32D (ETW AT CENTER HINGE) HAGER
1 EA	ELECTRIFIED LOCKSET ND96XDEU-RX - FSE SCHLAGE(MODIFIED TO BE ELECTRICALLY LOCKED/ MECH UNLOCKED ON BOTH SIDES
1 EA	CYLINDER CORE - AS REQUIRED SCHLAGE
1 EA	SURFACE CLOSER 4040XP-H-SCNS LCN
1 EA	CLOSER MOUNTING BRACKET 328SPB (FIELD-PAINT TO MATCH FRAME) ZERO
1 EA	KICK PLATE 8400 IVES
1 SET	WEATHER-STRIPPING 110N - HEAD & JAMBS NATIONAL GUARD
1 EA	THREASHOLD 896S NATIONAL GUARD
1 EA	SILL SWEEP 200N - PULL SIDE NATIONAL GUARD
1 EA	MAGNETIC DOOR CONTACT 1076D INTERLOGIX
1 EA	CARD READER SECURITY SYSTEM INTEGRATOR
1 EA	POWER SUPPLY SECURITY SYSTEM INTEGRATOR
1 EA	PADLOCK PL4000-1-1/2" X KZ200AL SCHLAGE
	FUNCTION: CARD READER SHUNTS DOOR CONTACT AND RELEASES ELECTRIFIED LEVER TRIM. TURNING INSIDE LEVER SHUNTS DOOR CONTACT. DOOR POSITION STATUS MONITORED THROUGH ACCESS CONTROL SYSTEM.

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Issued 01/07/22

BID SET

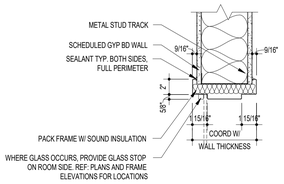
	Revisions	
1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

DOOR/ WINDOW SCHEDULE

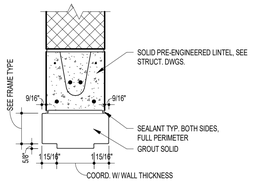
Scale **As indicated**
Drawn Author
Checked Checker

A2.01

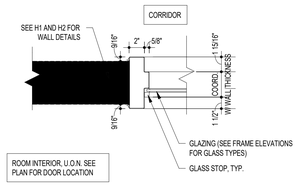
BID SET



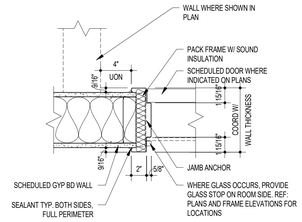
H2 HEAD DETAIL
1 1/2" = 1'-0"



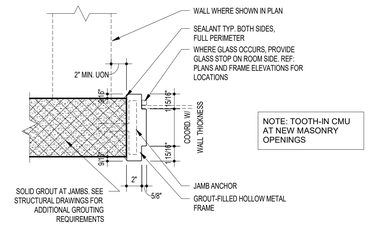
H1 HEAD DETAIL
1 1/2" = 1'-0"



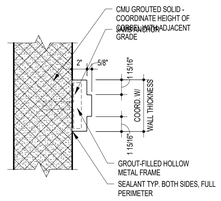
J3 HEAD/JAMB/SILL DETAIL J3.A503
1 1/2" = 1'-0"



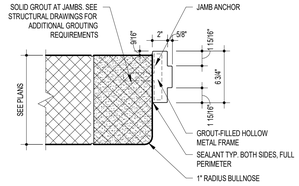
J2 JAMB DETAIL
1 1/2" = 1'-0"



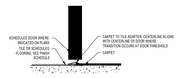
J1 JAMB DETAIL
1 1/2" = 1'-0"



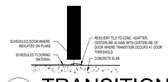
J7 JAMB DETAIL
1 1/2" = 1'-0"



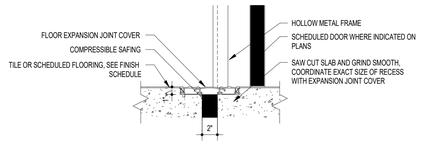
J6 JAMB DETAIL
1 1/2" = 1'-0"



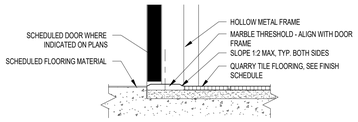
S2 TRANSITION STRIP
1 1/2" = 1'-0"



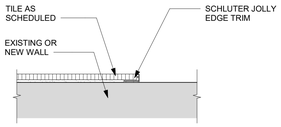
S1 TRANSITION STRIP
1 1/2" = 1'-0"



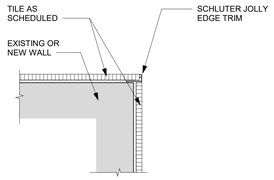
S5 SILL AT EXPANSION JOINT
1 1/2" = 1'-0"



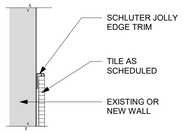
S4 MARBLE THRESHOLD AT QT
1 1/2" = 1'-0"



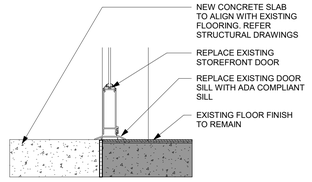
S6 WALL TILE END TRIM
3" = 1'-0"



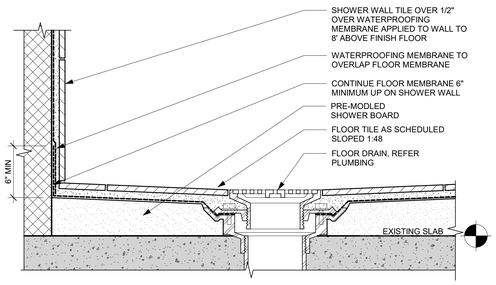
S7 WALL TILE CORNER TRIM
3" = 1'-0"



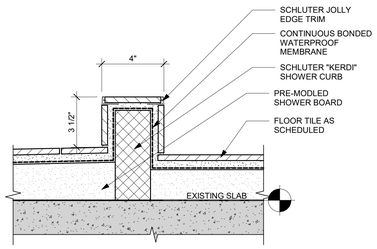
S8 WALL TILE TOP TRIM
3" = 1'-0"



S9 STOREFRONT DOOR SILL
1 1/2" = 1'-0"



F1 SHOWER DRAIN AND WALL DETAIL
3" = 1'-0"



F2 SHOWER CURB DETAIL
3" = 1'-0"

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Construction Documents for:
ARLINGTON COUNTY BOARD
SOLID WASTE + TE&O - INTERIOR RENOVATION
4300 S. 29TH STR. ARLINGTON, VA, 22206

Project: 21124-01

Issued	01/07/22
BID SET	

Revisions

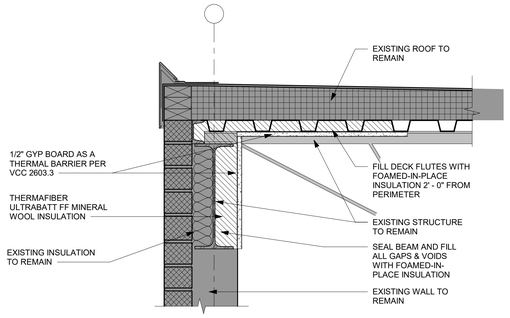
1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

DOOR DETAILS. TRANSITION DETAILS

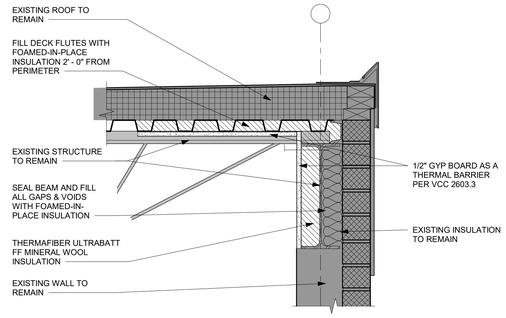
Scale **As indicated**
Drawn Author
Checked Checker

A2.02

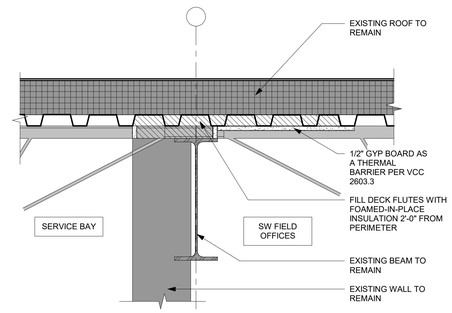
BID SET



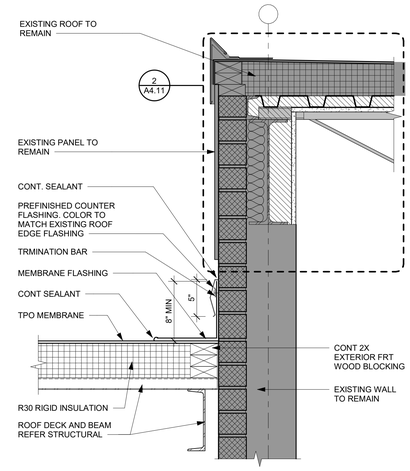
1 ROOF DETAIL AT EXISTING MASONRY WALL
1 1/2" = 1'-0"



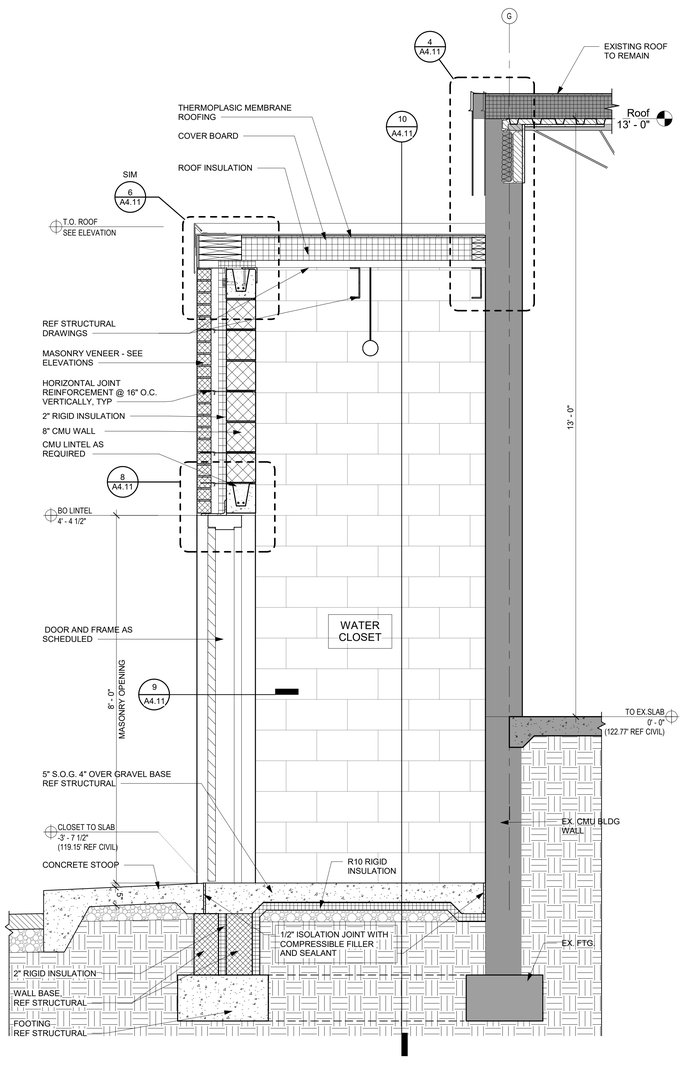
2 ROOF DETAIL AT EXISTING COMPOSITE PANEL
1 1/2" = 1'-0"



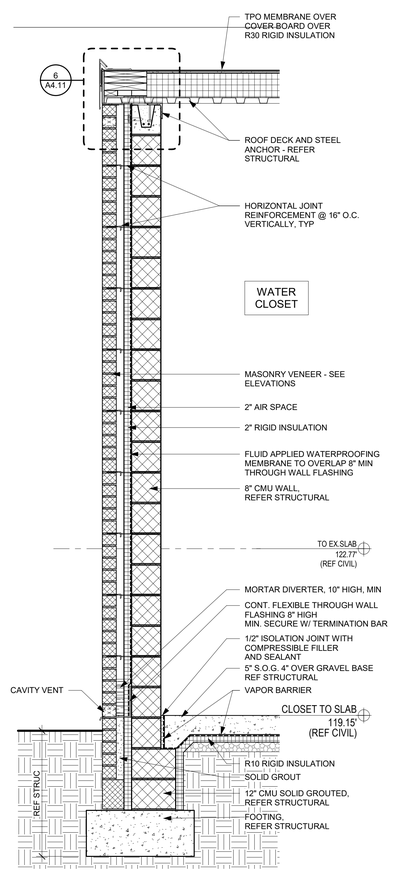
3 ROOF DETAIL AT SERVICE BAY
1 1/2" = 1'-0"



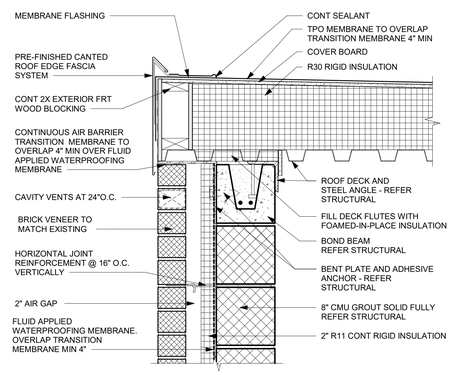
4 ROOF AT WATER CERVICE CLOSET AND EX.WALL
1 1/2" = 1'-0"



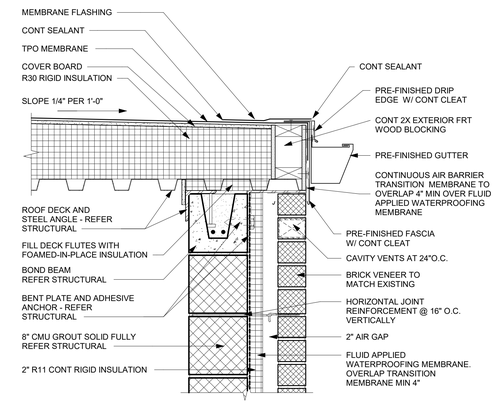
5 SECTION AT UTILITY CLOSET
3/4" = 1'-0"



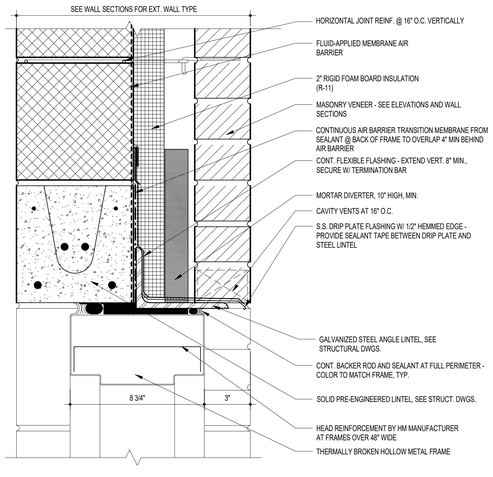
10 WALL SECTION
3/4" = 1'-0"



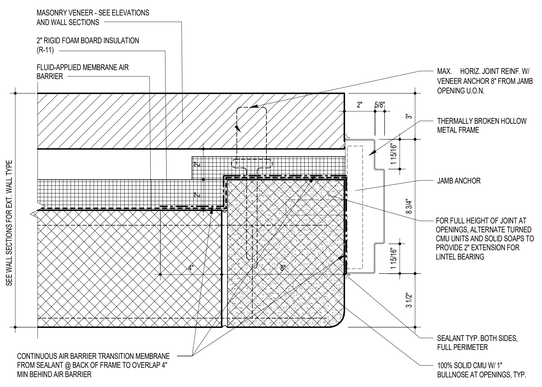
6 ROOF EDGE AT WATER SERVICE CLOSET
1 1/2" = 1'-0"



7 GUTTER DETAIL
1 1/2" = 1'-0"



8 HEAD DETAIL - HM FRAME AT CMU
3" = 1'-0"



9 JAMB DETAIL - HM FRAME AT CMU
3" = 1'-0"

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Construction Documents for:
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Project: 21124-01

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Revisions

1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

WALL SECTIONS AND DETAILS

Scale **As indicated**
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A4.11

BID SET

8/5/2022 1:46:09 PM
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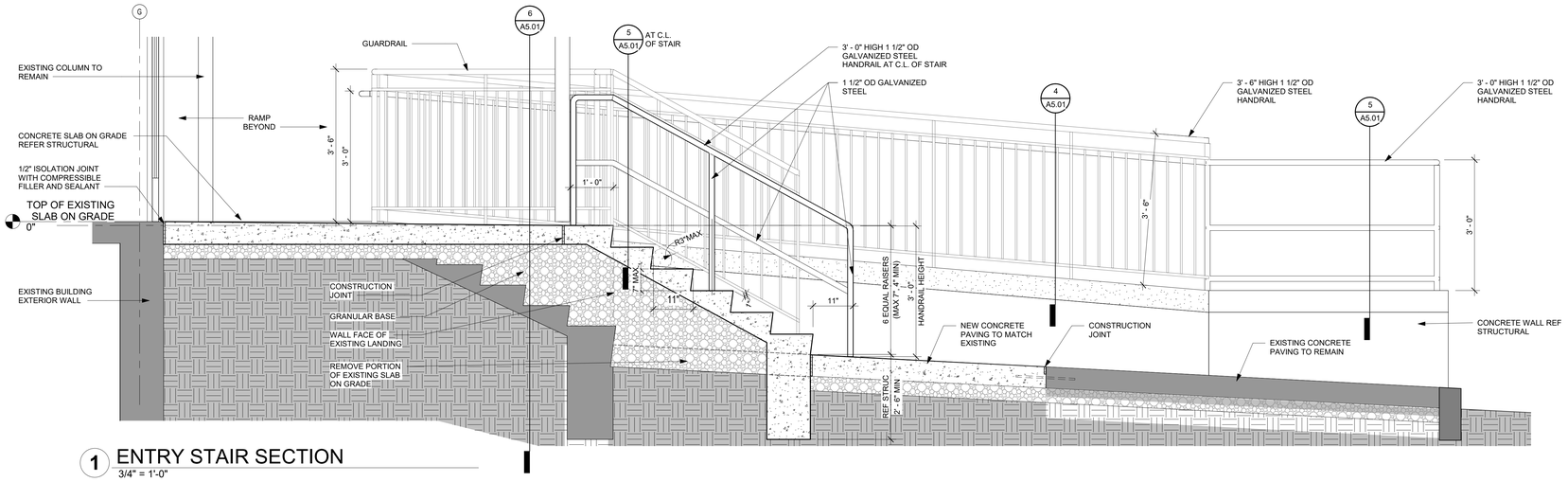
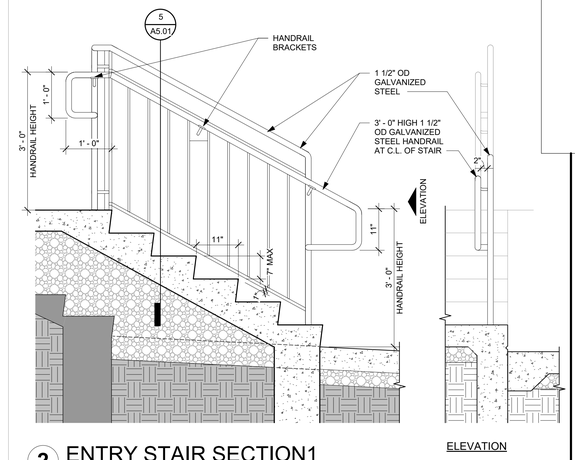
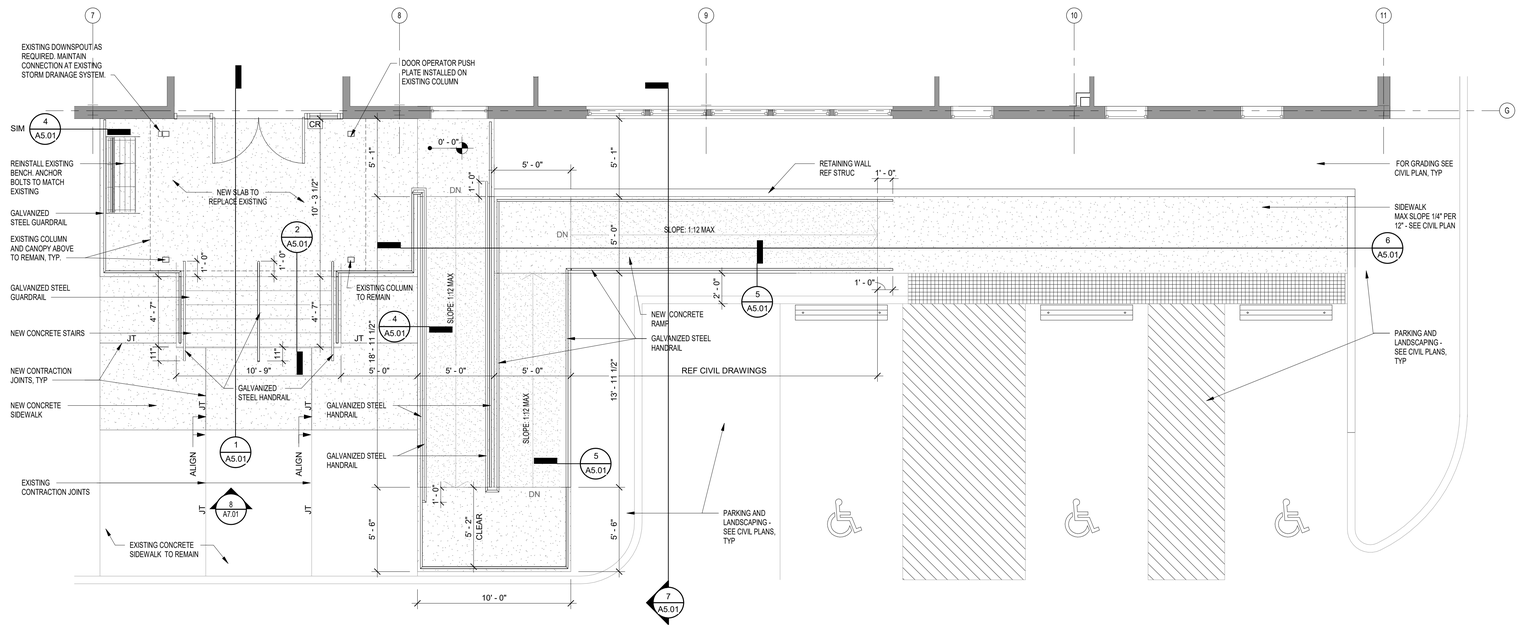


1 ENTRY STAIR SECTION
3/4" = 1'-0"

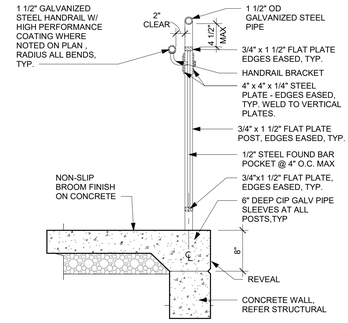


2 ENTRY STAIR SECTION1
3/4" = 1'-0"

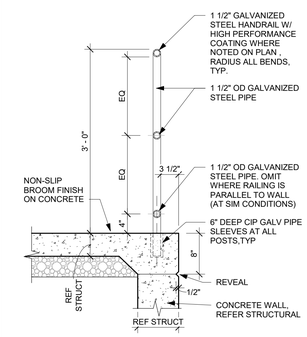
ELEVATION



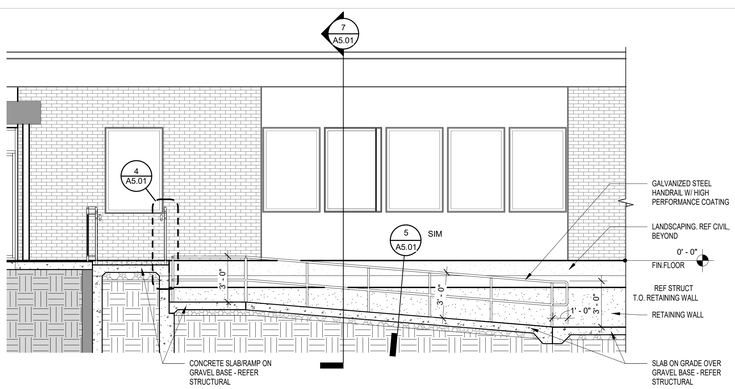
3 ENTRY RAMP AND STAIR
1/4" = 1'-0"



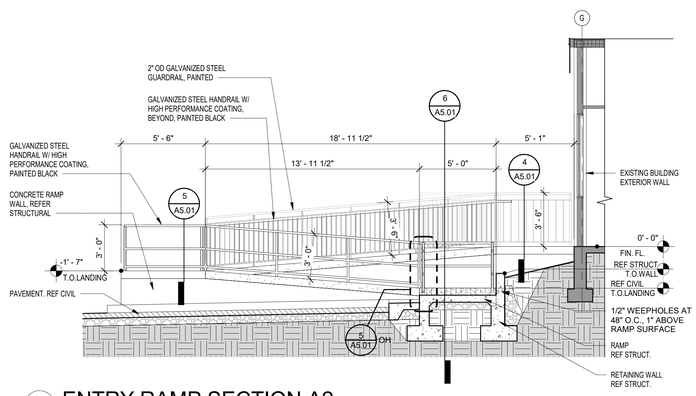
4 RAILING DETAIL
1" = 1'-0"



5 RAILING DETAIL
1" = 1'-0"



6 ENTRY RAMP SECTION A1
1/4" = 1'-0"



7 ENTRY RAMP SECTION A2
1/4" = 1'-0"

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Construction Documents for:
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Revisions

1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

EXTERIOR DETAILS

Scale	**As indicated**
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Checked	Checker

A5.01

BID SET

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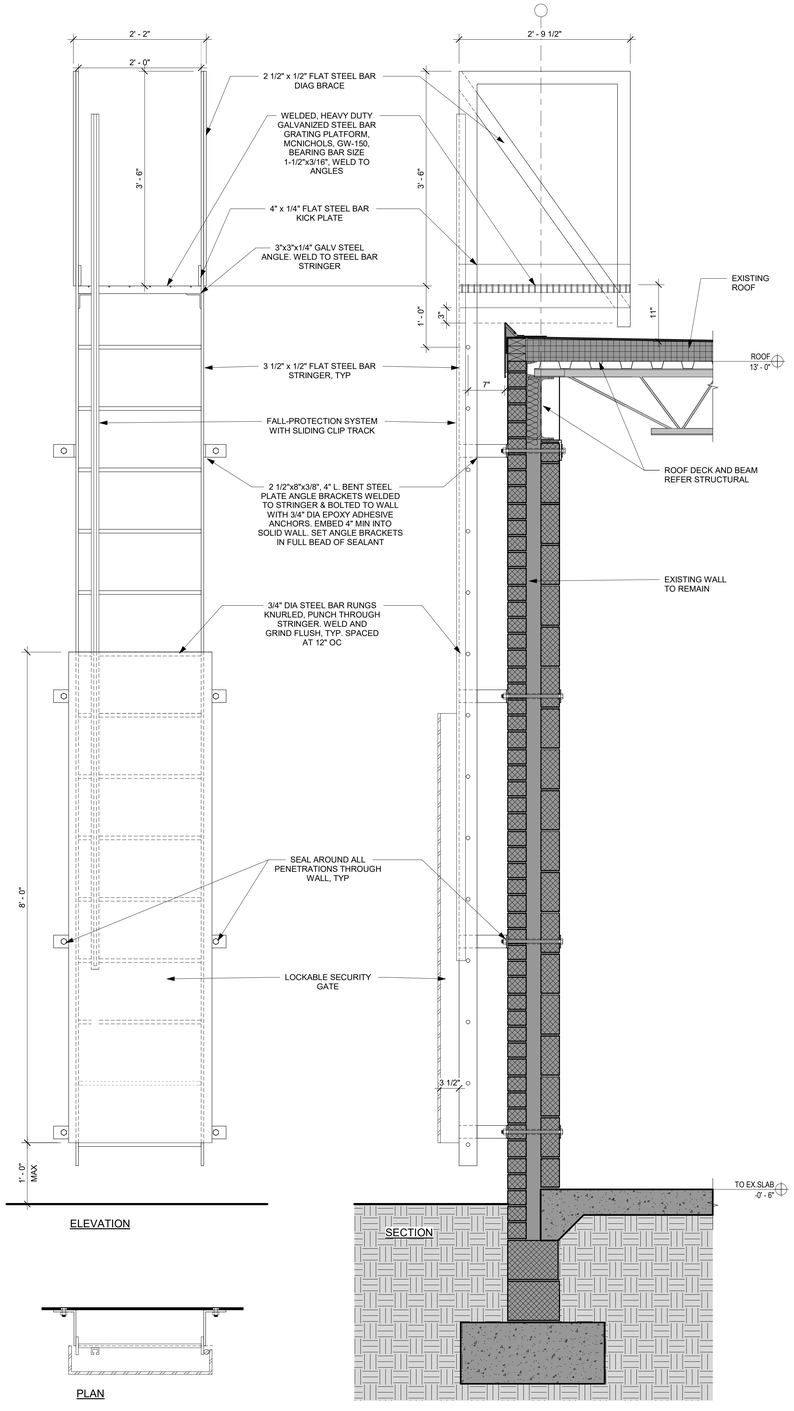
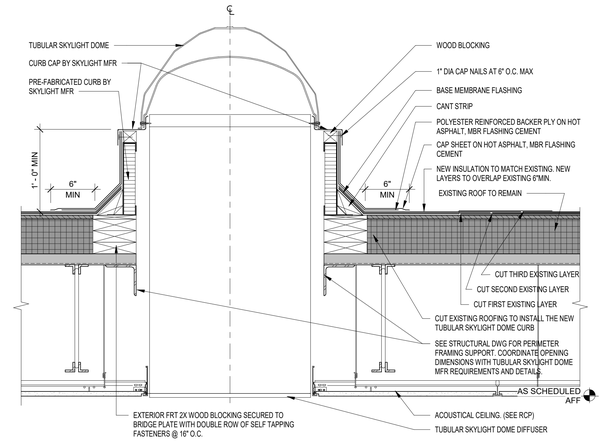
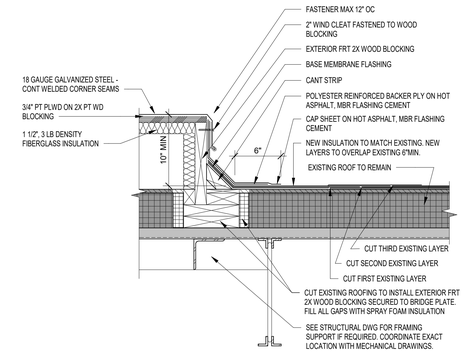


NOTE: LADDER DESIGN AND ATTACHMENT TO BE ENGINEERED BY THE LADDER COMPANY. PROVIDE STAMPED AND SEALED DRAWINGS BY A LICENSED STRUCTURAL ENGINEER.

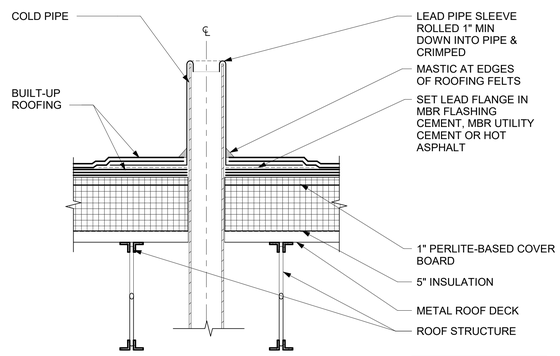
1 ROOF LADDER SECTION AND DETAILS
1" = 1'-0"



2 TUBULAR SKYLIGHT
1 1/2" = 1'-0"



3 CONDENSING UNIT PLATFORM
1 1/2" = 1'-0"



NOTE: REFER TO ROOFING MEMBRANE MANUFACTURER'S WARRANTED DETAILS FOR ALL ROOFING PENETRATIONS

4 VENT THROUGH ROOF (VTR)
1 1/2" = 1'-0"

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Revisions

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EXTERIOR DETAILS

Scale **As indicated**
Drawn Author
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A5.02

BID SET

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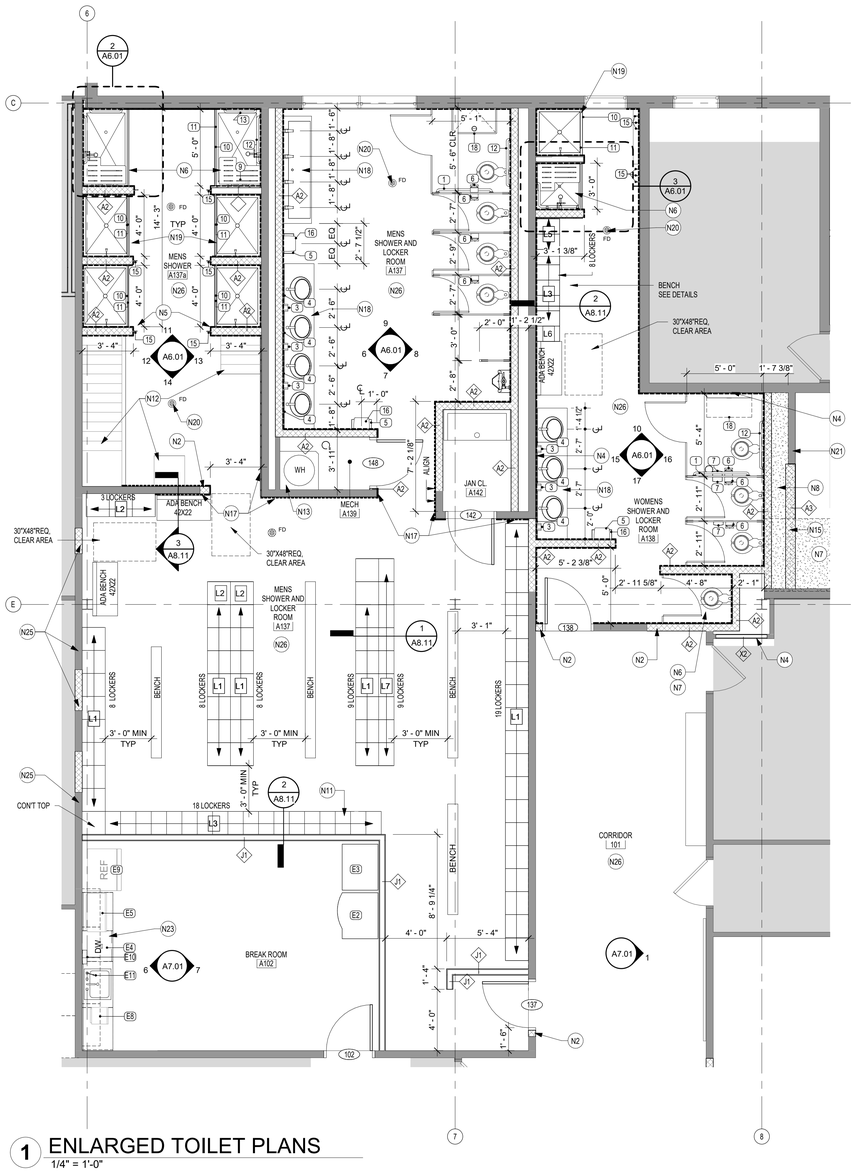
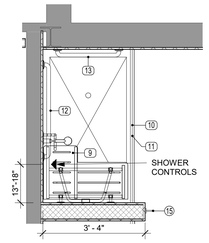
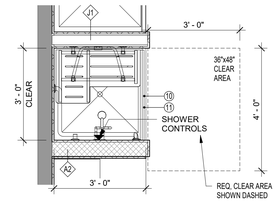


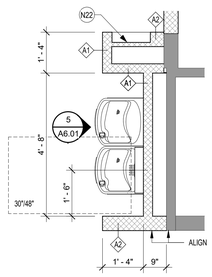
1 ENLARGED TOILET PLANS
1/4" = 1'-0"



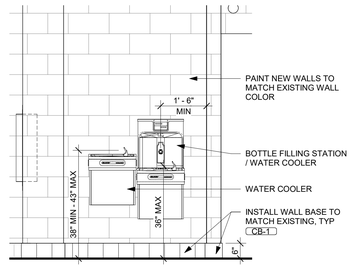
2 LARGE ADA SHOWER
1/2" = 1'-0"



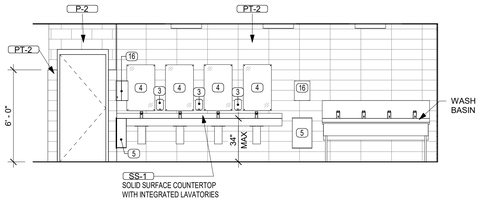
3 TYPICAL ADA SHOWER DETAIL
1/2" = 1'-0"



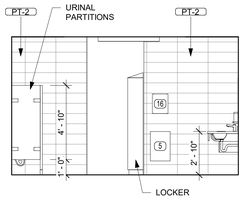
4 DRINKING FONTAINS
1/2" = 1'-0"



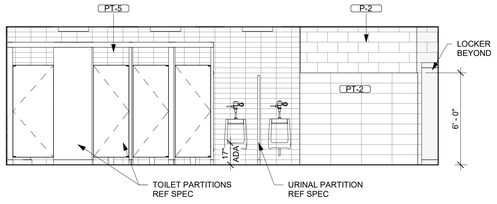
5 DRINKING FOUNTAINS ELEV.
1/2" = 1'-0"



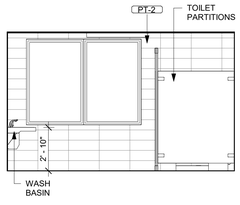
6 MENS BATHROOM ELEVATION 1
1/4" = 1'-0"



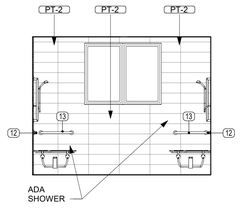
7 MENS BATHROOM 2
1/4" = 1'-0"



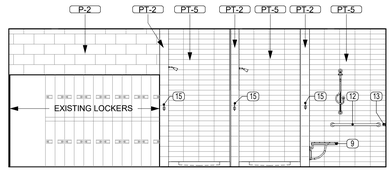
8 MENS BATHROOM ELEVATION 3
1/4" = 1'-0"



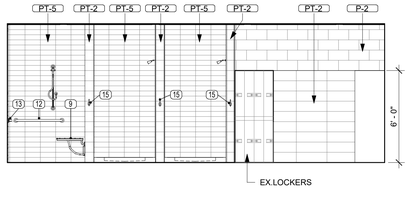
9 MENS BATHROOM 4
1/4" = 1'-0"



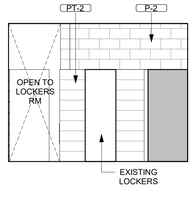
11 MEN'S SH. 2
1/4" = 1'-0"



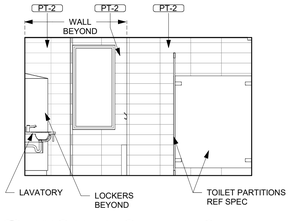
12 MEN'S SHOWER ELEVATION 1
1/4" = 1'-0"



13 MEN'S SHOWER ELEVATION 2
1/4" = 1'-0"



14 MEN'S SHOWER 4
1/4" = 1'-0"



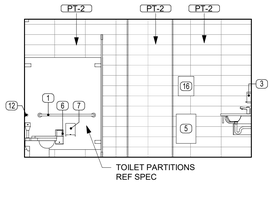
10 WOMEN'S ELEV 2
1/4" = 1'-0"

TOILET ACCESSORIES

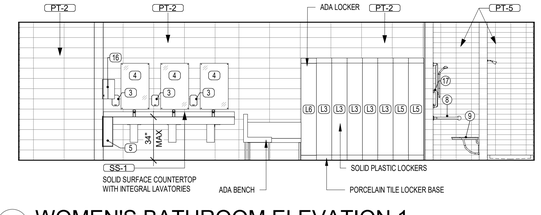
ITEM #	ACCESSORY DESCRIPTION	BOBRICK	A.S.I.	BRADLEY	Manufacturer	Model
1	GRAB BAR - 42"	B-6806.99-42	3401P-42	8122-001420	Bradley Corporation	8122-001420
3	SOAP DISPENSER	B-2112			Bobrick Washroom Equipment, Inc.	B-2112
4	Stainless Steel Mirror	B-1556			Bobrick Washroom Equipment, Inc.	
5	SURFACE MOUNTED WASTE RECEPTACLE W/ LINER-MATE	B-277			Bobrick Washroom Equipment, Inc.	B-277
6	Classic Series Surface Mounted Multi-roll Toilet Tissue Dispenser	B-2888			Bobrick Washroom Equipment, Inc.	B-2888
7	SANITARY NAPKIN DISPOSAL	B-207			Bobrick Washroom Equipment, Inc.	B-270
8	CORNER GRAB BAR	B-62616.99	3274P	8122-0591833	Bradley Corporation	8120-059000
9	Reversible Folding Shower Seat	B-5181			Bobrick Washroom Equipment, Inc.	B-5181
10	SHOWER CURTAIN ROD	B-6107	1214	9538		
11	SHOWER CURTAIN HOOKS	204-1	1200-SHU	9536		
12	GRAB BAR - 36"	B-6806.99-36	3401P-36	8122-001360	Bradley Corporation	8122-001360
13	GRAB BAR - 24"	B-6806.99-24	3401P-24	8122-001240	Bradley Corporation	8122-001360
15	TOWEL HOOK	B-671				
16	Automatic Roll Paper Towel Dispenser				Bobrick Washroom Equipment, Inc.	B-72974
17	VERTICAL GRAB BAR - 18"					
18	Bobrick KB110-SSWM Surface Mounted Baby Changing Station				Bobrick Washroom Equipment, Inc.	KB110-SSWM

LOCKER SCHEDULE

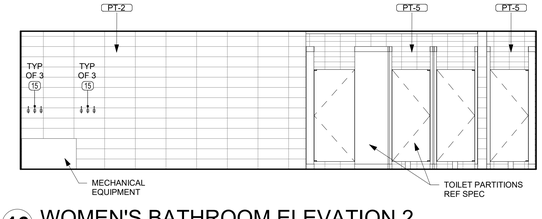
TYPE	DESCRIPTION	W	D	H	REMARKS
L1	SINGLE TIER LOCKER	18	18	72	
L2	ADA SINGLE TIER LOCKER	18	18	72	PROVIDE ADA SIGNAGE
L3	SINGLE TIER LOCKER	12	18	72	
L5	DOUBLE TIER LOCKER	12	18	72	
L6	ADA SINGLE TIER LOCKER	12	18	72	PROVIDE ADA SIGNAGE
L7	SINGLE TIER LOCKER	18	12	72	



17 WOMEN'S BATHROOM 4
1/4" = 1'-0"



15 WOMEN'S BATHROOM ELEVATION 1
1/4" = 1'-0"



16 WOMEN'S BATHROOM ELEVATION 2
1/4" = 1'-0"

KEYED WORK NOTES:

N1	NEW CHAIN LINK FENCE AND GATES. TO MATCH SIMILAR CONSTRUCTION AND HEIGHT OF PREVIOUSLY DEMOED FENCE AND GATE.
N2	TOOTH-IN EXISTING OPENING IN CMU WITH NEW CMU TO MATCH EXISTING. FINISH TO MATCH EXISTING. MAINTAIN MIN FIRE RATING AS INDICATED.
N3	LADDER LOCATED IN BETWEEN WINDOWS AND 10' AWAY FROM CORNER OF BUILDING MINIMUM. REF SPEC.
N4	INFILL EXISTING OPENING WITH METAL STUDS, BATT SOUND INSULATION, AND GWB TO MATCH EXISTING ADJACENT WALL THICKNESS. MATCH EXISTING ADJANET BASE AND CHAIR RAIL AS REQUIRED.
N5	PROVIDE SCHLUTER CORNER TRIM AT ALL TILE OUTSIDE CORNERS - TYP
N6	ADA COMPLIANT SHOWER - SLOPE TO DRAIN WITH ADA COMPLIANT TRHRESHOLD SIMILAR TO ZERO #8452A.
N7	PATCH EXISTING CONCRETE TO PROVIDE SMOOTH AND HOMOGENIUS SURFACE TO MATCH EXISTING ADJACENT CONCRETE.
N8	PATCH AND REPAIR SLAB AFTER UNDERGROUND PLUMBING IS INSTALLED.
N9	REMOVE ALL RESIDUES / ADHESIVES. PATCH & REPAIR EXISTING FLOORING AS REQUIRED TO MATCH ADJACENT.
N10	PATCH AND PAINT EXISTING WALL TO MATCH ADJACENT.
N11	CLOSURE AT FACE AND ABOVE.
N12	REINSTALL EXISTING LOCKERS.
N13	EXISTING CONCRETE PAD TO REMAIN
N14	CONDUIT TO ELECTRICAL ROOM. REFER TO ELECTRICAL DRAWINGS.
N15	PROVIDE 2HR RATED WALL ASSEMBLY.
N16	DOOR OPERATOR PUSH PLATE.
N17	NEW TILE TO COVER THE WALL AREA WHERE THE EXISTING TILES ARE REMOVED - MATCH HEIGH.
N18	PLUMBING FIXTURE -REF PLUMBING DRAWINGS
N19	PROVIDE 4" SHOWER CURB
N20	NEW DRAIN. REFER TO PLUMBING DRAWINGS. COORDINATE TILE SLOPING TO DRAIN - TYP.
N21	VERIFY WHETHER THE EXISTING WALL IS 2HR FIRE RATED. REPLACE WITH NEW CMU 2HR RATED WALL IF NECESSARY.
N22	PROVIDE AND INSTALL FIRE EXTINGUISHER AND RECESSED FIRE EXTINGUISHER CABINET
N23	CASEWORK - REF ELEVATIONS
N25	TOOTH-IN EXISTING OPENING IN CMU WITH NEW CMU TO MATCH EXISTING. FINISH TO MATCH EXISTING
N26	PROVIDE UP TO 3" TOPPING SLAB IN THIS AREA TO INFILL PREVIOUS MORTAR BED

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Construction Documents for:
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SOLID WASTE + TE&O - INTERIOR RENOVATION
4300 S. 29TH STR. ARLINGTON, VA, 22206

Project: 21124-01

Issued	01/07/22
BID SET	

Revisions

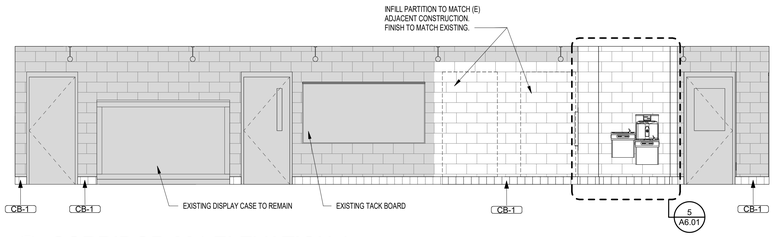
1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

ENLARGED PLANS. INTERIOR ELEVATIONS

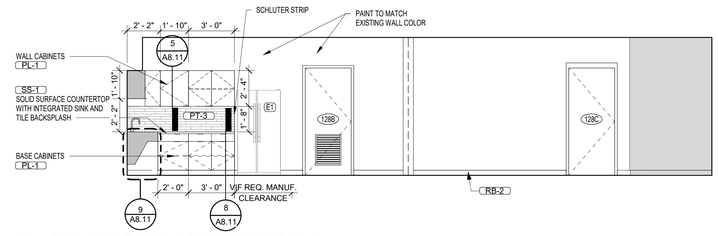
Scale **As indicated**
Drawn Author
Checked Checker

A6.01

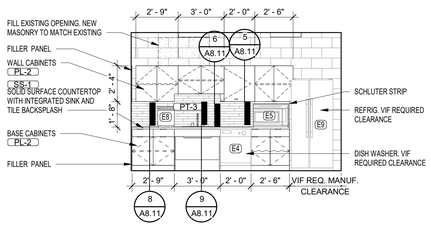
BID SET



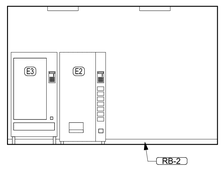
1 CORRIDOR 001 ELEVATION 1
1/4" = 1'-0"



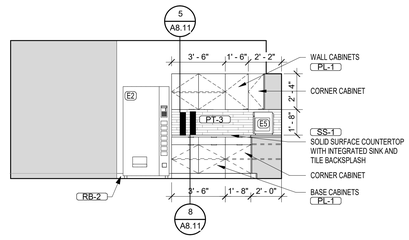
4 SW KITCHEN ELEVATION 2
1/4" = 1'-0"



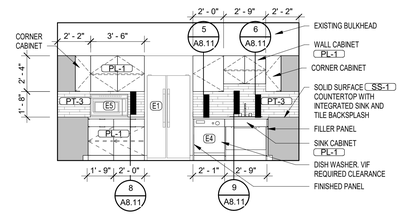
6 TE&O BREAK ROOM ELEVATION 1
1/4" = 1'-0"



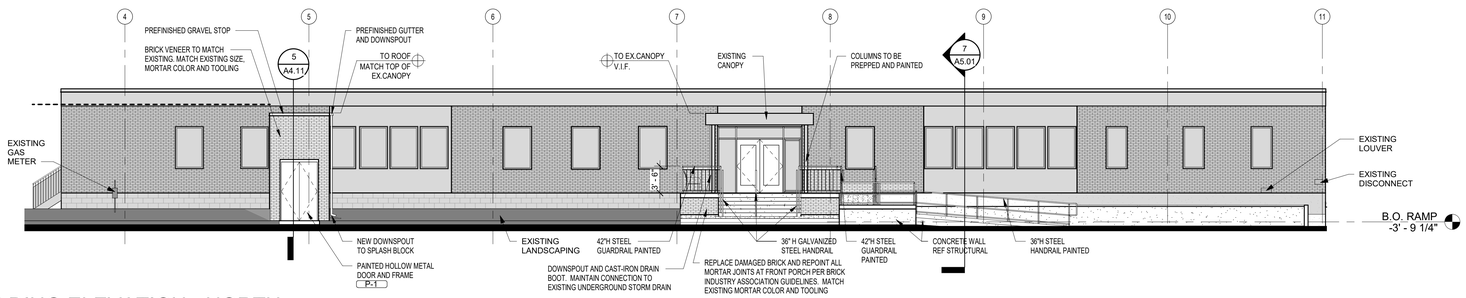
7 TE&O BREAK ROOM ELEVATION 2
1/4" = 1'-0"



5 SW KITCHEN ELEVATION 3
1/4" = 1'-0"



3 SW KITCHEN ELEVATION 1
1/4" = 1'-0"



8 BUILDING ELEVATION - NORTH
1/8" = 1'-0"

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ELEVATIONS AND SECTIONS

Scale **As indicated**
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Checked Checker

A7.01

BID SET

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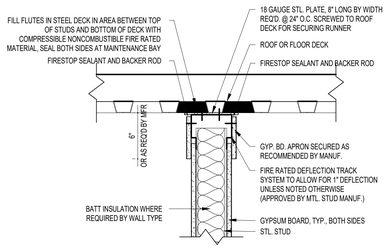
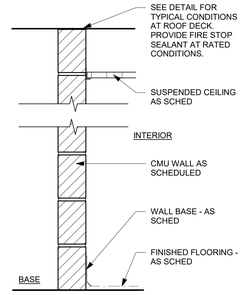


E9 RATED STUD WALL
1 1/2" = 1'-0"

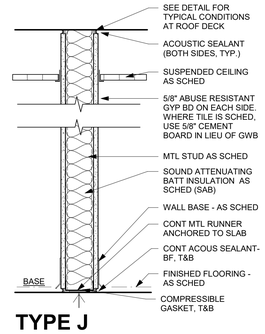


TYPE A

- A1 3 5/8" CMU
- A2 5 5/8" CMU (STC-40)
- A3 7 5/8" CMU (SCT-45)
- A4 9 5/8" CMU
- A5 11 5/8" CMU

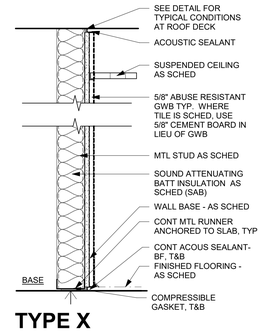
TYP PARTITION NOTE:
SEE CODE STUDY FOR LOCATIONS OF RATED WALLS. WHERE THESE WALLS ARE INDICATED, COMOPLY WIT THE FOLLOWING*

1HR - UL #906 (5 7/8" CMU)
2HR - UL #905 (7 5/8" CMU)
3HR - UL #904 (7 5/8" CMU)



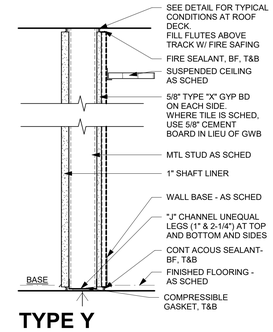
TYPE J

- J1 3 5/8" MTL STUD, 3 1/2" SAB
- J2 6" MTL STUD, 5 1/2" SAB
- J3 2 1/2" MTL STUD, 2 1/2" SAB



TYPE X

- X1 1 5/8" MTL STUD, 2 1/2" SAB
- X2 2 1/2" MTL STUD, 2 1/2" SAB
- X3 3 5/8" MTL STUD, 3 1/2" SAB
- X4 3 5/8" MTL STUD, 3 1/2" SAB W/ (2) LAYERS GYP BD



TYPE Y

- Y1 2 1/2" C-H MTL STUD AT 24" O.C.
- Y2 4" C-H MTL STUD AT 24" O.C.
- Y3 2 1/2" C-H MTL STUD AT 24" O.C. WITH (2) 5/8" TYPE-X GYP BD
- Y4 4" C-H MTL STUD AT 24" O.C. WITH (2) 5/8" TYPE-X GYP BD

1HR UL #473 (1-LAYER TYPE X 5/8" GWB)
2HR UL #473 (2-LAYERS TYPE X 5/8" GWB)

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

TYPICAL WALL TYPE NOTES

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

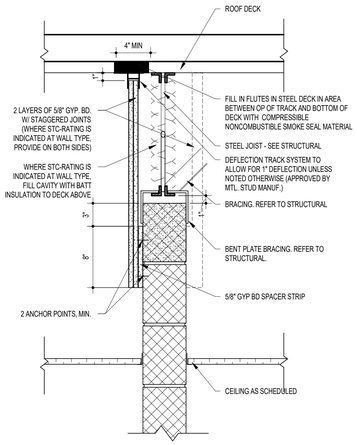
1. NOT ALL WALL TYPES ARE REPRESENTED IN THIS PROJECT.
2. WALLS SHALL EXTEND FULL HEIGHT FROM FLOOR SLAB TO THE FLOOR OR ROOF DECK ABOVE UNLESS SPECIFICALLY NOTED OTHERWISE. IN CORRIDORS, EXTEND COLUMN CHASE AND LOCKER FIN WALLS 4" ABOVE CEILING ONLY.
3. REFER TO THE CODE STUDY AND FLOOR PLANS FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS / LOCATIONS. IN ADDITION TO THE REQUIREMENTS INDICATED ON THE CODE STUDY AND FLOOR PLANS, ALL CORRIDOR AND VESTIBULE WALLS SHALL BE BUILT TO RESIST THE PASSAGE OF SMOKE.
4. FIRE WALLS, FIRE SEPARATION WALLS, SMOKE BARRIER WALLS AND WALLS REQUIRED TO RESIST THE PASSAGE OF SMOKE SHALL EXTEND FULL HEIGHT FROM FLOOR SLAB TO THE FLOOR OR ROOF DECK ABOVE AND SHALL BE SEALED TIGHT TO THE DECK OR STRUCTURAL MEMBER WITH AN APPROVED FIRE RESISTIVE JOINT SYSTEM. SEAL ALL PENETRATIONS AND TOPS OF WALLS IN ACCORDANCE WITH SPECIFICATION DIVISION 7 SECTION - FIRE RESISTIVE JOINT SYSTEMS. WALLS AT FIRE AND SMOKE CONDITIONS / LOCATIONS, LISTED ABOVE, SHALL BE BUILT TIGHT TO DUCTS, PIPES AND PENETRATIONS AND SHALL BE TERMINATED IN ACCORDANCE WITH WALL TERMINATION DETAILS ON THIS SHEET. FILL FLUTES IN FLOOR AND ROOF DECKS AS INDICATED. WHERE WALLS AT FIRE AND SMOKE CONDITIONS / LOCATIONS, LISTED ABOVE, ARE INTERRUPTED BY STRUCTURAL MEMBERS. PROVIDE FIRE RESISTIVE JOINT SYSTEM IN AREAS BETWEEN TOP AND/OR SIDE OF WALL AND STRUCTURAL MEMBER AND BETWEEN DECK ABOVE AND STRUCTURAL MEMBER IN ACCORDANCE WITH APPROVED FIRE RESISTIVE JOINT SYSTEM AND TYPICAL WALL TERMINATION NOTE #4 BELOW.
5. SEE WALL SECTIONS AND DETAILS FOR EXTERIOR WALL TYPES.
6. THESE WALL TYPES ARE GENERAL IN NATURE AND DO NOT COVER EVERY VARIATION THAT MAY OCCUR THROUGHOUT THE PROJECT. SEE WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
7. TYPICAL CMU INTERIOR PARTITION SHALL BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
8. TYPICAL GYPSUM BOARD/STUD WALL PARTITION SHALL BE TYPE 3-5/8" METAL STUDS AT 16" O.C. WITH 5/8" ABUSE-RESISTANT GYPSUM BOARD UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS , WALL SECTIONS OR OTHER DETAILS.
9. WALL TYPES MAY NOT HAVE BEEN INCLUDED IN THIS SCHEDULE FOR INTERIOR WALL TYPES WHICH ARE COVERED BY WALL SECTIONS.
10. THESE WALL TYPES DO NOT SHOW LATERAL BRACING OR WALL REINFORCING. SEE STRUCTURAL AND OTHER DRAWINGS FOR THAT INFORMATION.
11. SEE FINISH SCHEDULE FOR FINISHES TO BE APPLIED TO THESE WALL TYPES.
12. ALL WALLS WITH FIRE RATING INDICATED SHALL BE BUILT IN STRICT CONFORMANCE WITH A UL TESTED ASSEMBLY OR OTHER TESTED ASSEMBLY WHICH PROVIDES THE FIRE RATING INDICATED.
13. FURRING CHANNELS AND STUDS SHALL BE 16" O.C. MAXIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
14. THE GAGE OF ALL METAL STUDS SHALL BE SIZED SO THAT THE DEFLECTION OF THE WALL SHALL NOT EXCEED 1/240 PER ASTM C645 UNLESS A HEAVIER GAGE IS INDICATED ON THE WALL TYPE OR DETAILS.
15. IN ALL WALLS WITH SOUND ATTENUATION BLANKETS OR AN STC RATING LISTED; OUTLETS, SWITCHES, ETC., SHALL NOT BE LOCATED BACK TO BACK. OUTLETS SHALL BE OFFSET AND SEALED. PERIMETERS OF WALLS (AT ADJACENT WALLS, COLUMNS, CEILINGS, ETC.) SHOULD BE SEALED. ADDITIONALLY, WALL PENETRATIONS SHALL BE SEALED WITH APPROPRIATE TYPE OF ACOUSTIC SEALANT.
16. PROVIDE SPACE FOR DEFLECTION OF BEAMS, JOISTS, AND STEEL DECK @ TOP OF ALL WALLS THAT RUN TO THE DECK. FILL GAP WITH NON COMBUSTIBLE, COMPRESSIBLE FILLER ON NON RATED WALLS AND APPROVED FIRE SAFING ON RATED WALLS - SEE TYP. DETAILS THIS SHEET.
17. FOR CASES WHEN WALLS ARE INDICATED TO EXTEND FULL HEIGHT TO THE DECK BUT STOP AT A STRUCTURAL MEMBER, SEE THE TYPICAL DETAILS ON THIS SHEET FOR THE APPROPRIATE CLOSURE CONDITIONS. IF EXACT CONDITION IS NOT INDICATED, MODIFY CLOSEST CONDITION FOR SPECIFIC APPLICATION.
18. PROVIDE 4" HIGH X 18 GA. X LENGTH REQUIRED STEEL PLATE BLOCKING OR 2x FRT WD BLOCKING IN ALL IN ALL STUD WALLS WHERE REQUIRED TO ATTACH LOCKERS, CASEWORK, SHELVING, LIGHTS, ELECTRICAL DEVICES, TOILET ACCESSORIES AND ANY OTHER ITEM WHICH REQUIRE SECURE ATTACHMENT TO THE WALLS.
19. IN ROOMS WHERE NO FINISHED CEILING IS PROVIDED, EXTEND ALL CHASE WALLS TO FLOOR OR ROOF DECK ABOVE.
20. PROVIDE CONT. SEALANT AT BASE OF ALL GYP. BD. WALLS (BOTH SIDES), TYPICAL.

ELECTRICAL BOXES IN FIREWALLS

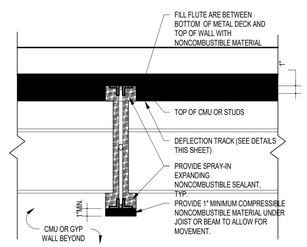
ELECTRICAL BOXES IN FIRE RATED PARTITIONS SHALL NOT EXCEED 16 SQUARE INCHES IN AREA (IF 4"X4"), SHALL BE MADE OF STEEL, AND SHALL BE SPACED SUCH THAT THE CUMULATIVE AREA OF BOX CUTOUTS IN THE FIREWALL DOES NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIREWALL SHALL BE SEPARATED BY A HORIZONTAL AND VERTICAL DISTANCE OF NOT LESS THAN 24". THE ELECTRICAL CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS, AS NECESSARY, TO ELECTRICAL BOX LOCATIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT SINCE BOX LOCATIONS ARE TYPICALLY NOT DIMENSIONED ON THE DRAWINGS. CONSULT ARCHITECT IF CLARIFICATION IS REQUIRED.

TYPICAL WALL TERMINATION NOTES

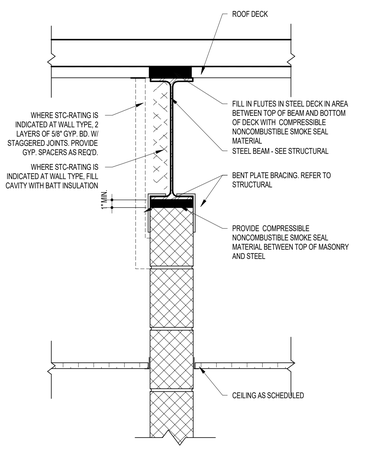
1. USE THESE TYPICAL WALL TERMINATION DETAILS FOR ALL WALLS INDICATED TO EXTEND TO DECK ABOVE, UNLESS SPECIFICALLY DETAILED OTHERWISE. COORDINATE WITH STRUCTURAL FRAMING PLANS.
2. SEE WALL TYPES ABOVE FOR ACTUAL WALL CONSTRUCTION.
3. AT FIRE WALLS, FIRE SEPARATION WALLS, SMOKE BARRIER WALLS AND WALLS REQUIRED TO RESIST THE PASSAGE OF SMOKE, ALL COMPRESSIBLE, NON-COMBUSTIBLE MATERIALS REFERENCED IN THE WALL TERMINATION DETAILS SHALL BE MATERIALS PROVIDED IN ACCORDANCE WITH THE APPROVED FIRE RESISTIVE JOINT SYSTEM.
4. IF A WALL REQUIRING A FIRE RATING IS LOCATED DIRECTLY UNDER A BEAM THE FIRE RATING OF THE WALL SHALL BE MAINTAINED TO THE DECK BY EXTENDING WALL AROUND BEAM. CONSULT ARCHITECT FOR EXACT REQUIREMENTS TO MAINTAIN RATING.



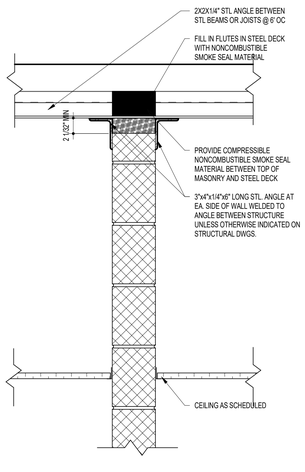
A15 CMU WALL ALIGNED UNDER A JOIST
1 1/2" = 1'-0"



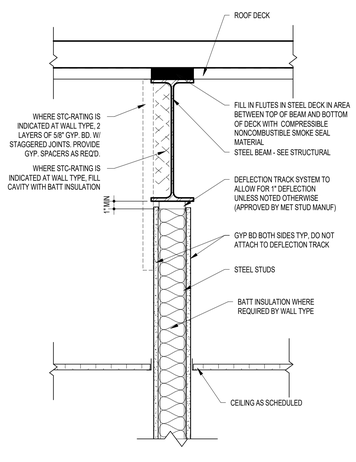
E6 JOIST OR BEAM. PERP. TO WALL
1 1/2" = 1'-0"



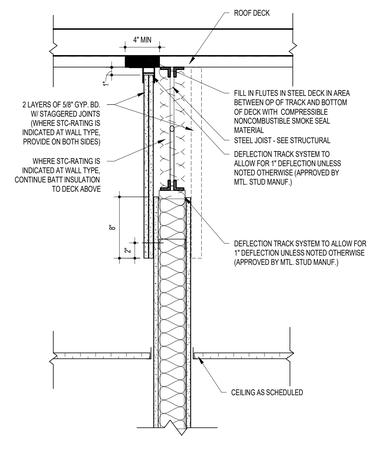
A18 NON-RATED CMU WALL ALIGNED UNDER A BEAM
1 1/2" = 1'-0"



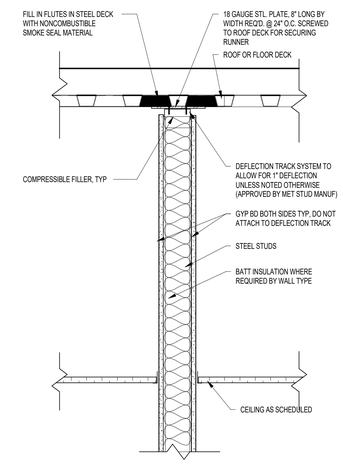
A12 CMU WALL
1 1/2" = 1'-0"



A9 STUD WALL ALIGNED UNDER A BEAM
1 1/2" = 1'-0"



A6 NON-RATED STUD WALL ALIGNED UNDER A JOIST
1 1/2" = 1'-0"



A3 NON-RATED CTUD WALL
1 1/2" = 1'-0"

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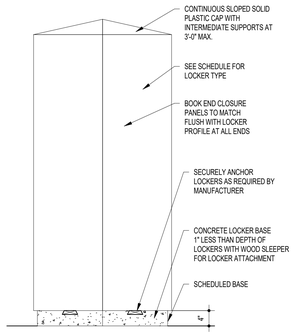
PARTITION TYPES AND WALL TERMINATION

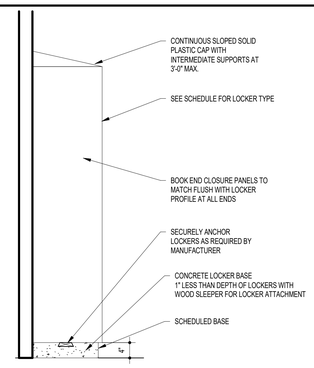
Scale **As indicated**
Drawn Author
Checked Checker

A8.01

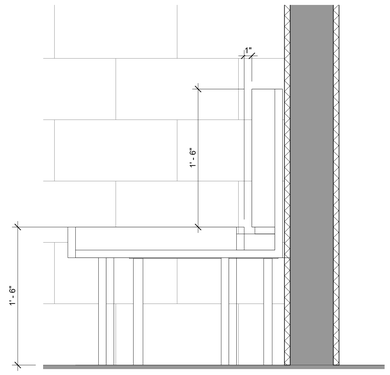
BID SET



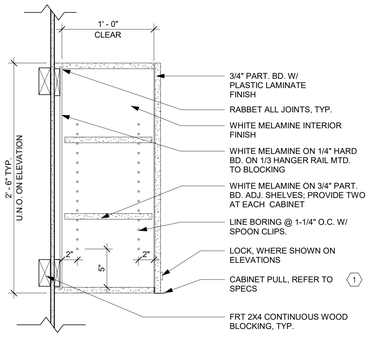
1 A501.J7 TYP. LOCKER DETAIL - DOUBLE SIDED
3/4" = 1'-0"



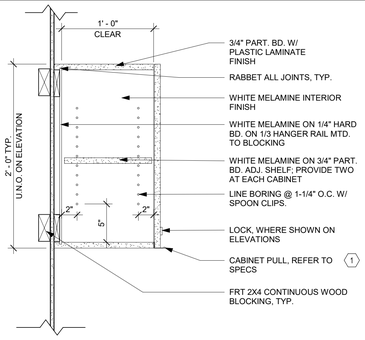
2 A501.J11 SECTION @ MENS LOCKER
3/4" = 1'-0"



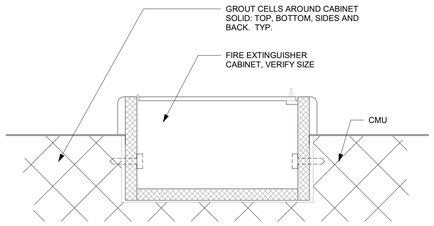
3 SECTION @ ADA BENCH
1 1/2" = 1'-0"



5 TYP. WALL CABINET
1 1/2" = 1'-0"



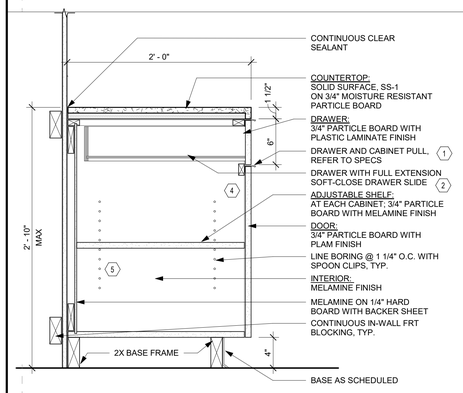
6 TYP. WALL CABINET Copy 1
1 1/2" = 1'-0"



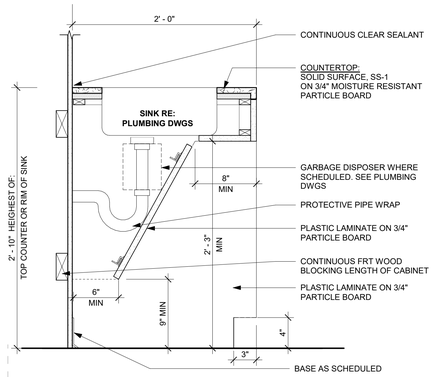
CMU WALL

SET TOP OF CABINET OPENING AT 4'-0" A.F.F.

7 FIRE-EXTINGUISHER CABINET DETAIL
3" = 1'-0"



8 MLWK-BASE CABINET
1 1/2" = 1'-0"



9 BASE SINK CABINET
1 1/2" = 1'-0"

CABINET ACCESSORY / HARDWARE SCHEDULE

#	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORY FINISH	COMMENTS
1	6" TAB PULLS	DP3	AS	BRUSHED CHROME	HORRIZONTAL INSTALATION: CENTERED ON ALL PULL-OUT DOOR & DRAWERS; 4" O.C. ON MOUNTING AT SWING EDGE OF SWING DOORS
2	DRAWER SLIDERS	ACCURIDE	7434 @ DRAWERS	N/A	FULL EXTENSION SLIDES
4	CONCEALED HINGES	HAFELE	329.17.507 OR SIMILAR FOR FULL-OVERLAY; SELF-CLOSING	BRUSHED CHROME	110E OPENING WITH INTEGRAL AND VERTICAL ADJUSTMENT; SELF CLOSING; FOR FULL OVERLAY DOORS
5	SHELF SUPPORT PINS	HAFELE	282.04.739	NICKEL PLATED	WHERE INDICATED FOR ADJUSTABLE SHELVING

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Project: 21124-01

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Revisions

1	PERMIT REVISIONS	2/11/22
2	BID SET	8/08/22

INTERIOR DETAILS

Scale **As indicated**
Drawn Author
Checked Checker

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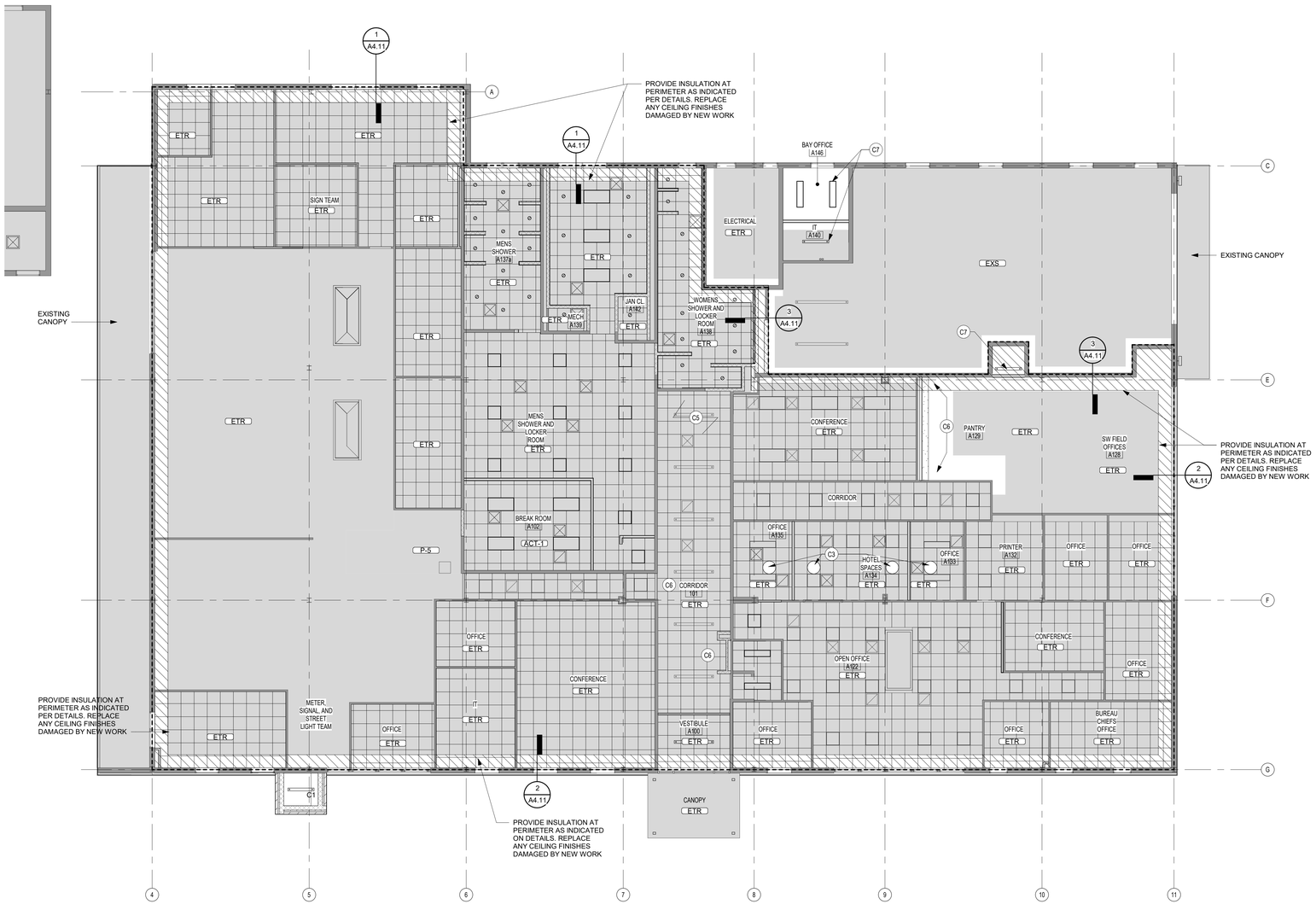

1 REFLECTED CEILING PLAN

1/8" = 1'-0"

KEYED CEILING NOTES:

C1	NOT USED
C2	NOT USED
C3	NEW TUBULAR SKYLIGHTS. RELOCATE MECHANICAL DUCTS AND LIGHTING SO THAT SKYLIGHTS DO NOT CONFLICT.
C5	REPAIR AND INFILL CEILING/ROOF AT AREA OF DEMOED SKYLIGHT
C6	REPAIR AND REPLACE AS REQUIRED FOR NEW WORK
C7	EXISTING LIGHT FIXTURES TO REMAIN.

REFLECTED PLAN LEGEND:

N1	NEW WORK KEYED NOTE
1i	NEW LIGHT FIXTURE; SEE ELECTRICAL DRAWINGS
	NEW GYPSUM BOARD CEILING
	NEW 2X2 ACT AND GRID
	EXISTING GYPSUM BOARD CEILING TO REMAIN
	EXISTING 2X2 ACT AND GRID TO REMAIN
100 - 0"	CEILING HEIGHT ABOVE FINISHED FLOOR
CF-1	CEILING FINISH; SEE FINISH SCHEDULE
ETR	EXISTING CEILING TO REMAIN
EXS	EXPOSED STRUCTURE OVERHEAD
	NO WORK IN THIS AREA

SEE AG.01 FOR GENERAL FINISH NOTES
SEE A10.01 FOR GENERAL CEILING NEW WORK NOTES
SEE F1.01 FOR FINISH SCHEDULE

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REFLECTED CEILING PLAN

Scale **1/8" = 1'-0"**
Drawn DF
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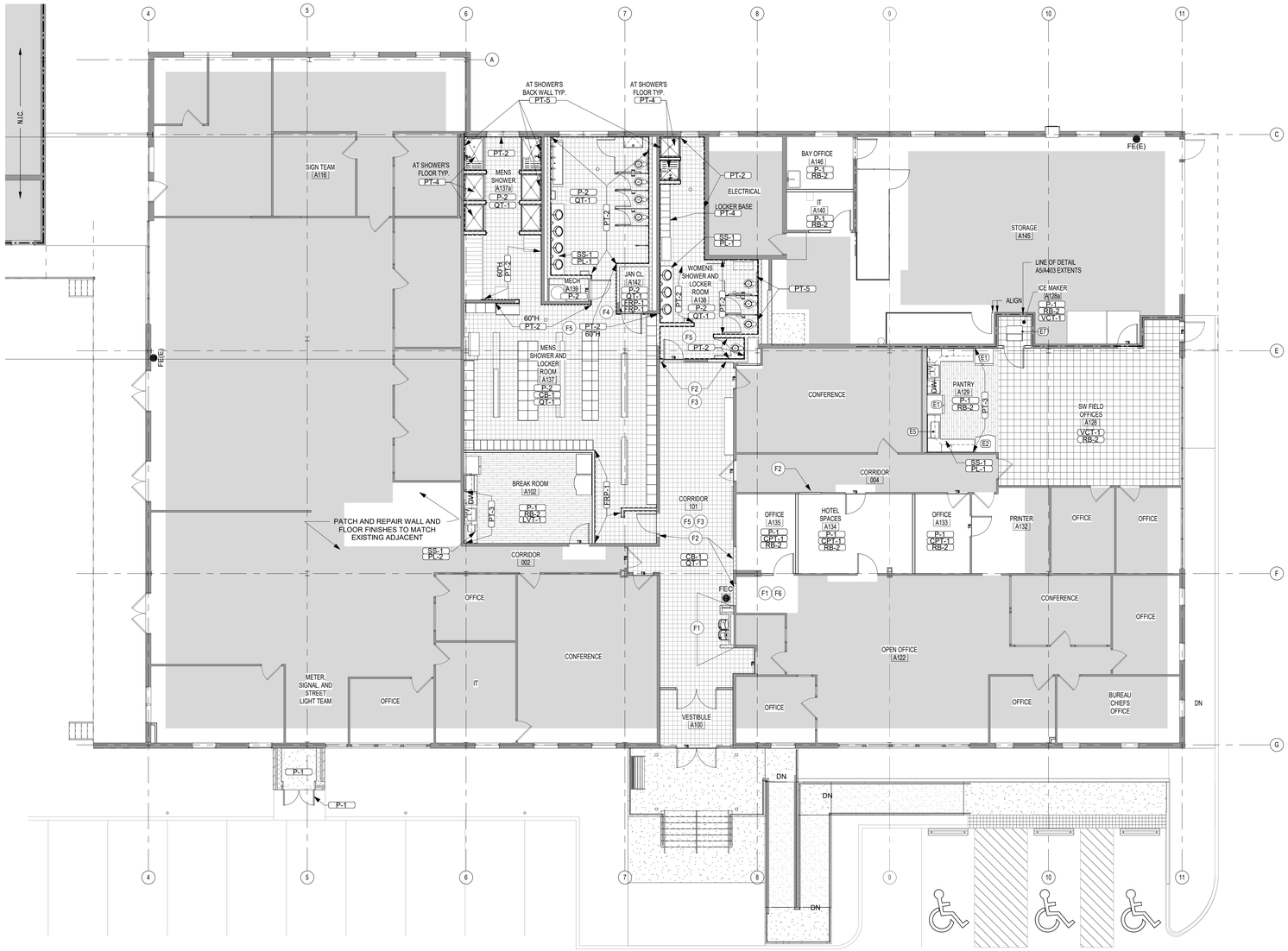

3 FLOOR PLAN
1/8" = 1'-0"

KEYED FINISH NOTES:

F1	PAINT WALL TO MATCH EXISTING WALL COLOR.
F2	FINISH WALL TO MATCH EXISTING, FOR SEAMLESS TRANSITION TO EXISTING CONDITIONS.
F3	INSTALL WALL BASE
F4	PROVIDE 8' HIGH FRP
F5	INSTALL NEW TILE FLOOR AT THE SAME LEVEL AS REMOVED EXSITING TILE.
F6	CARPET AND WALL BASE TO MATCH EXISTING

FINISH SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	SERIES / FINISH / STYLE	COLOR	INSTALLATION / PROCUREMENT	LOCATION
BASE						
CB-1	QUARRY COVE BASE	DALTILE	DALTILE QUARRY TEXTURES BULLNOSE 6"x6"	ASHEN GRAY	-	ENTRY CORRIDOR, MEN LOCKER ROOM
RB-2	RUBBER BASE	JOHNSONITE	4" COVE	199 DOCKSIDE WG		THROUGHOUT, U.O.N
CASEWORK / MILLWORK						
PL-1	PLASTIC LAMINATE	FORMICA	MATE	6413 SILVER RIFTWOOD		SOLID WASTE
PL-2	PLASTIC LAMINATE	ARBORITE	STANDARD HPL FINISH	W-476 EV VEILED GHOSTWOOD		BREAK ROOM A102
SS-1	SOLID SURFACE	WILSONAR	1/2"; EASED EDGE	9218CM GREY BEOLA		THROUGHOUT, U.O.N
CEILING TILE						
ACT-1	ACOUSTIC CEILING TILE	ARMSTONG	PRELUDE XL 15/16" Grid, FINE FISSURED 15/16" ANGLED TEGULAR 24"x24" Tile	WHITE		WHERE PATCHING EXISTING ACT IS REQUIRED, VERIFY EXISTING COLOR WHEN MATCING EXISTING
FIBERGLASS REINFORCED PANELS						
FRP-1	FIBERGLASS REINFORCED PANELS	MARLITE	STANDARD FRP	TBD		
FLOORING						
CPT-1	CARPET	SHAW CONTRACT	BRIGHT WORK; SHINE TILE 24" x 24", MATCH EXISTING	27485 FLASHPOINT		PREINSTALL MEETING REQUIRED
LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	48599 SOLITUDE, 6" x 48" PLANK	FRENCH GREY	RANDOM STAGGERED	PREINSTALL MEETING REQUIRED
QT-1	QUARRY TYLE	DALTILE	QUARY TEXTURES	0T03 ASHEN GRAY 6"x6"	-	ENTRY CORRIDOR, SHOWER AND LOCKER ROOMS
VCT-1	VINYL COMPOSITE TILE	ARMSTONG	IMPERIAL TEXTURE	52513 CIRQUE WHITE		PREINSTALL MEETING REQUIRED
PAINT						
P-1	PAINT	SHERMAN WILLIAMS	EGGSHELL; LOW VOC	SW7004 SNOWBOUND		TYPICAL PAINT THROUGHOUT, U.O.N
P-2	PAINT	SHERMAN WILLIAMS	SEMI-GLOSS; LOW VOC	SW7004 SNOWBOUND		TYPICAL DOOR AND FRAME PAINT THROUGOUT, U.O.N.
P-5	PAINT	MATCH EXISTING	FLAT; LOW VOC	WHITE, MATCH EXISTING		TYPICAL CEILING PAINT THROUGHOUT, U.O.N
P-6	PAINT	SHERMAN WILLIAMS	EGGSHELL; LOW VOC	SW 6530 REVEL BLUE		TYPICAL ACCENT THROUGHOUT, U.O.N.
TILE						
PT-2	TILE	DALTILE	COLORWHEEL, SIZE 8"x24"	ALMOND 0135	1/8 JOINT	WALLS, HORIZONTAL IN STACKED BOND
PT-3	TILE	DALTILE	AMITY; MOSAIC; 14" X 12" SHEET	TAUPE		KITCHEN BACKSPLASH
PT-4	TILE	DALTILE	Reminscent, SIZE: MOSAIC	RM23 Reclaimed Gray	1/8 JOINT	SHOWER FLOORS AND LOCKER BASE
PT-5	TILE	DALTILE	COLORWHEEL, SIZE 4"x12"	ARCHITECTURAL GRAY	1/8 JOINT	ACCENT TILE, HORIZONTAL IN STACKED BOND

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FINISH PLAN AND SCHEDULE

Scale **1/8" = 1'-0"**
Drawn Author
Checked Checker

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DESIGN NOTES

I. CODES AND STANDARDS
  A. WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT, **THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE,** AND THE INTERNATIONAL BUILDING CODE, **2018**.

II. DESIGN AND LOADING CRITERIA
  A. ALL CODES, REFERENCES AND STANDARDS REFERRED TO SHALL BE THE CURRENT VERSION UNLESS A DIFFERENT VERSION IS LISTED IN THE BUILDING CODE.
  B. SNOW LOAD
    1. GROUND SNOW LOAD: (PG) = 30.0 PSF
    2. SNOW EXPOSURE FACTOR (CE): = 1.0
    3. IMPORTANCE FACTOR (I): = 1.0
    4. THERMAL FACTOR (CT): = 1.0
    5. FLAT ROOF SNOW LOAD (PF): = 21 PSF
  C. FLOOR LIVE LOADS
    1. 1ST FLOOR = 100PSF
  D. SEISMIC LOAD
    1. **RISK** CATEGORY: = II
    2. SEISMIC IMPORTANCE FACTOR (I): = 1.0
    3. MAPPED SPECTRAL RESPONSE: SS = 0.123, S_1= 0.052
    4. SPECTRAL RESPONSE COEFF S_{DS} = 0.131, S_{D1}= 0.083
    5. SITE CLASSIFICATION: = D
    6. SEISMIC DESIGN CATEGORY = B
    7. RESPONSE MODIFICATION FACTOR: R = 2
    8. SEISMIC RESPONSE COEFF: CS = 0.052
    9. SEISMIC RESISTANCE SYSTEM TYPE: = ORDINARY REINFORCED MASONRY SHEAR WALLS
    10. ANALYSIS PROCEDURE USED: = EQUIVALENT LATERAL FORCE
  E. WIND LOAD
    1. **ULTIMATE** WIND SPEED: = **120** MPH
    2. **RISK CATEGORY: = II**
    3. EXPOSURE: = B
    4. INTERNAL PRESSURE COEFF: = +/-0.18
    5. COMPONENT AND CLADDING:
       FOR WALL = 31.6 PSF MAX
       FOR ROOF = 54.1 PSF MAX
       OTHER DESIGN PRESSURES MAYBE USED IF SIGNED & SEALED CALCULATIONS ARE SUBMITTED FOR REVIEW
  F. FLOOR & ROOF DESIGN MINIMUM LIVE LOADS:
    1. FABRICATION ROOM: = 100 PSF
    2. STAIRS: = 100 PSF
    3. ROOFS: = 30 PSF OR APPLICABLE SNOW DRIFTING WHEN EXCEEDS 30 PSF.

III. CONCRETE AND REINFORCING
  A. CONCRETE WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318. AS MODIFIED BY IBC CODE.
  B. CONCRETE DESIGN IS IN ACCORDANCE WITH "STRENGTH DESIGN METHOD."
  C. ALL CONCRETE EXPOSED TO FREEZE THAW SHALL BE MINIMUM 4500 PSI WITH MAX W/C RATIO 0.45. ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS (F'C) ELSEWHERE SHALL BE 4000 PSI
  D. CONCRETE MATERIALS:
    1. CEMENT: ASTM C-150 TYPE I OR III
    2. CEMENT SUBSTITUTES: ASTM C-595 TYPE '1P' (LIMIT TO 25% MAXIMUM CEMENTITIOUS CONTENT BY WEIGHT.)
    3. AGGREGATES: ASTM C-33 (NORMAL WEIGHT)
    4. AIR-ENTRAINING ADMIX: ASTM C-260
    5. PREFORMED JOINT FILLER: ASTM D-994
    6. JOINT SEALANT: ASTM D-1190
  E. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED 6%, +/- 1.5%.
  F. CONCRETE SHALL BE THOROUGHLY COMPACTED DURING PLACEMENT AND WORKED AROUND EMBEDDED ITEMS AND INTO CORNERS OF FORMS.
  G. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ITEMS EMBEDDED IN CONCRETE AND SHALL ENSURE THAT ALL ARE ACCURATELY LOCATED AND SECURE.
  H. DEPRESSIONS SHALL BE LOCATED FROM ARCHITECTURAL PLANS. PENETRATIONS FOR MECHANICAL, PLUMBING AND ELECTRICAL WORK SHALL BE COORDINATED WITH MECHANICAL, PLUMBING AND ELECTRICAL ENGINEERING AND ARCHITECTURAL DRAWINGS. WHERE NOT INDICATED ON STRUCTURAL PLANS, SLAB PENETRATIONS SHALL BE MADE NO CLOSER THAN 2'-0" TO COLUMN FACE IN FLAT-SLAB CONSTRUCTION.
  I. CONTRACTOR SHALL SUBMIT PROPOSED CONTRACTION JOINT LAYOUT DRAWING FOR REVIEW. PRIOR TO POURING SLAB.
  J. CONCRETE SLUMP SHALL = 4" PLUS OR MINUS 1".
  K. ALL PRECAST CONCRETE LINTELS SHALL BE AIR-ENTRAINED, HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH = 4,500 PSI, AND HAVE A MINIMUM BEARING WIDTH OF 8". LINTELS SHALL BE PROPORTIONED AS FOLLOWS FOR EACH 4" OF WALL WIDTH.

OPENING SIZE	DEPTH	REINFORCEMENT
UP TO 4'0"	8"	1 #4, T&B
4'1" TO 6'0"	8"	1 #4, T&B
6'1" TO 8'0"	8"	1 #5, T&B
8'1" TO 10'0"	8"	1 #6, T&B

  L. GROUT SHALL BE NON-SHRINKABLE, NON-METALLIC CONFORMING TO ASTM C1107, AND SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF **7,000 PSI**. PREGROUTING OF BASE PLATES SHALL NOT BE PERMITTED.
  M. FORM CONTRACTION JOINTS WITH AN EARLY ENTRY DRY-CUT SAW EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8-INCH WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION CRACKS, BUT IN NO CASE LATER THAN 4 HOURS AFTER START OF POUR.
  N. REINFORCING BARS #3 THRU #11 SHALL BE DEFORMED AND IN ACCORDANCE WITH "SPECIFICATIONS FOR DEFORMED AND PLAIN BILLET STEEL BARS FOR CONCRETE REINFORCEMENT" ASTM A-615. GRADE 60 KSI. WHERE INDICATED, EPOXY COAT BARS IN ACCORDANCE WITH ASTM A-775.
  O. SUBMIT SHOP DRAWINGS FOR REINFORCEMENT TO THE **ARCHITECT** FOR APPROVAL. PREPARE DRAWINGS UNDER THE SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION DETAILING FABRICATING, BENDING, AND PLACING CONCRETE REINFORCEMENT. COMPLY WITH ACI 315 AND ACI DETAILING MANUAL SP-66, SHOWING BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, AND ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCING REQUIRED FOR OPENINGS THROUGH CONCRETE STRUCTURES.
  P. WELDED WIRE FABRIC NOTED "WWF" SHALL BE IN ACCORDANCE WITH "STANDARD SPECIFICATION FOR STEEL WELDED WIRE REINFORCEMENT, PLAIN, FOR CONCRETE" ASTM A-185. WHERE INDICATED, EPOXY COAT WWF IN ACCORDANCE WITH ASTM A-884.
  Q. BARS MARKED CONTINUOUS (CONT) SHALL BE LAPPED IN ACCORDANCE WITH REQUIREMENTS FOR SPLICES AS DEFINED IN ACI 318, MINIMUM 50 BAR DIAMETERS, UNLESS INDICATED OTHERWISE. COLUMN VERTICAL REINFORCING SHALL BE SPLICED AS SHOWN IN COLUMN DETAILS.
  R. BAR LENGTHS SHOWN ON PLAN DO NOT INCLUDE LENGTH OF HOOK WHERE A HOOK IS INDICATED. PROVIDE STANDARD HOOK UNLESS DETAILED OTHERWISE.
  S. PROVIDE WWF 6 X 6 W2.9 X W 2.9 IN TOP 1/3 OF ALL SLAB ON GRADE U.N.O. ALL MESH EDGES SHALL LAP A MINIMUM OF TWO (2) SQUARES.
  T. MINIMUM CONCRETE COVER BETWEEN FACE OF REINFORCING BAR AND FACE OF CONCRETE SHALL BE AS FOLLOWS:
    1. CONCRETE CAST AGAINST EARTH = 3"
    2. FORMED CONCRETE EXPOSED TO WEATHER OR EARTH = 2"
    3. FORMED CONCRETE NOT EXPOSED TO WEATHER:
       a) SLABS AND JOISTS = 3/4"
       b) BEAMS, COLUMNS = 1-1/2"

IV. STRUCTURAL STEEL
  A. STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND THE "MANUAL OF STEEL CONSTRUCTION" **FOURTEENTH** EDITION.
  B. STRUCTURAL STEEL:
    1. STRUCTURAL STEEL SHAPES & PLATES: ASTM A-36 FY = 36,000 PSI
    2. STRUCTURAL PIPE: ASTM A-53B FY = 35,000 PSI
    3. HOLLOW STRUCTURAL SECTIONS SQUARE & RECTANGULAR: ASTM A-500B FY = 46,000 PSI
    4. HIGH STRENGTH BOLTS: ASTM A-325 CONN TYPE-N
    5. ANCHOR RODS: ASTM F-1554 GR36 OR GR 55 WITH WELDABILITY SUPPLEMENT S1.
    6. SMOOTH, THREADED ROD: ASTM A-36
    7. GALVANIZING (HOT-DIP): ASTM A-123
  C. ALTERNATE CONNECTIONS TO THOSE SHOWN ON PLANS AND DETAILS WILL BE ALLOWED ONLY WITH THE APPROVAL OF THE **ARCHITECT**. IF SUCH APPROVAL IS GRANTED, CONNECTIONS, ETC. NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS (FABRICATOR'S REDESIGN) SHALL BE SUBMITTED WITH SHOP DRAWINGS UNDER THE SEAL OF LICENSURE OF THE FABRICATOR'S ENGINEER FOR THE LOCAL JURISDICTION.

  A. UNLESS OTHERWISE NOTED, A-325 BOLTS SHALL BE TIGHTENED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. THE SNUG-TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO FIRM CONTACT.
  B. WELDING SHALL CONFORM TO REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" AWS D1.1-08. USE 70 KSI LOW-HYDROGEN ELECTRODES.
  C. GROUT UNDER BEAM BEARING PLATES AND COLUMN BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH F'C = **7000 PSI.**
  D. UNLESS GALVANIZED OR TO RECEIVE SPRAY-APPLIED FIREPROOFING, STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH-UP COAT OF RUST-INHIBITING PAINT AFTER ERECTION.
  E. ALL STEEL LINTELS SHALL HAVE A MINIMUM OF 8" BEARING AND SHALL BE PROPORTIONED AS FOLLOWS FOR EACH 4" OF WALL WIDTH.

OPENING SIZE	LINTEL
UP TO 4'-0"	L 4 X 3-1/2 X 5/16
4'-1" TO 5'-0"	L 5 X 3-1/2 X 5/16
5'-1" TO 6'-0"	L 5 X 3-1/2 X 3/8

  F. NO FABRICATION SHALL PROCEED PRIOR TO SHOP DRAWINGS APPROVAL.
  G. NO OPENINGS IN BEAMS OR COLUMNS ARE PERMITTED WITHOUT THE APPROVAL OF THE **ARCHITECT**.
  H. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE **ARCHITECT** AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
  I. ALL EXTERIOR EXPOSED (INCLUDING IN EXTERIOR WALL WYTHE'S) STRUCTURAL STEEL SHAPES, PLATES AND BOLTS SHALL BE HOT DIPPED GALVANIZED TO ASTM A123 GRADE Z350. TOUCH UP ALL DAMAGED AREAS, INCLUDING FIELD WELDS.
  J. DEVELOPMENT OF STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN PROJECT JURISDICTION AND SHALL INCLUDE DETAILS FOR APPLICATION AND ASSEMBLY OF ALL STRUCTURAL MEMBERS. INCLUDE DETAILS OF CUTS, CONNECTIONS, HOLES, AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS 2.1 SYMBOLS SHOWING SIZE, LENGTH AND TYPE OF EACH WELD. SHOP DRAWINGS SHALL BE SUBMITTED TO THE **ARCHITECT** FOR APPROVAL.
  K. ALL MISCELLANEOUS STEEL CONNECTIONS SHALL BE WELDED ALL AROUND WITH ONE-QUARTER-INCH FILLET WELD UNLESS OTHERWISE NOTED, EXCEPT FOR SLOTTED CONNECTIONS.
  L. HANDRAILS, GUARDRAILS, AND LADDERS SHALL BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR THE MOST RESTRICTIVE OF THE LOADS GIVEN AND APPLICABLE DESIGN CODE. IN NO CASE SHALL TOTAL COMBINED POST/RAILING DEFLECTION EXCEED 0.75", THE LIMITS IN ASTM E985 OR LIMITATION OF MATERIAL USED AS INFILL, WHICHEVER IS MORE RESTRICTIVE. SUBMIT SHOP DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION TO THE **ARCHITECT** INDICATING ALL MEMBERS AND CONNECTIONS.
  M. PROVIDE A MINIMUM BEARING LENGTH OF 6" FOR ALL BEAMS SUPPORTED ON MASONRY.

II. POST- INSTALLED ANCHORS
  A. EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. OR AN EQUIVALENT MANUFACTURER APPROVED BY THE **ARCHITECT**.
  B. ANCHORAGE TO CONCRETE:
    a. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
      1. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD (OR EQUAL) PER ICC ESR-3187 FOR FAST CURE APPLICATIONS

    b) MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
      1. HILTI KWIK BOLT-TZ EXPANSION ANCHORS PER ICC ESR-1917, DEWALT/POWERS POWER-STUD+SD2 EXPANSION ANCHOR PER ICC ESR-2502, OR EQUAL).
  1. REBAR DOWELING INTO CONCRETE:
    a. ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
      1. HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-2322, DEWALT/POWERS PURE 110+ EPOXY ADHESIVE ANCHORING SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3298, (OR EQUAL).
  2. ANCHORAGE TO SOLID GROUTED MASONRY**:**
    a. ADHESIVE ANCHORS USE:
      1. HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM, DEWALT/POWERS AC100+GOLD MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR-3200, (OR EQUAL.).
      2. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD, ASTM GRADE 36 STANDARD THREADED ROD, OR CONTINUOUSLY DEFORMED STEEL REBAR.
  3. ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY:
    a. ADHESIVE ANCHORS USE:
      1. HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR-3442, DEWALT/POWERS AC100+GOLD MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR-3200, (OR EQUAL).
      2. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD, ASTM GRADE 36 STANDARD THREADED ROD, OR CONTINUOUSLY DEFORMED STEEL REBAR.
      3. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION
  B. SUBSTITUTION REQUESTS FOR ALTERNATE POST INSTALLED ANCHOR PRODUCTS MUST BE APPROVED IN WRITING BY THE **ARCHITECT** PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.
  C. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
  D. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFI SYSTEM (OR EQUAL).
  E. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE **ARCHITECT** MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
  F. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS
  G. CONCRETE AT TIME OF ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 21 DAYS AND A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
  H. CONCRETE SHALL BE AT LEAST 50 DEGREES AT THE TIME OF ANCHOR INSTALLATION.
  I. CONCRETE AT INDOOR ANCHOR APPLICATIONS SHALL BE DRY AT THE TIME OF ANCHOR INSTALLATION.
  J. EXISTING REINFORCING BARS, EMBEDED CONDUIT OR OTHER ITEMS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH PROPOSED ANCHOR LOCATIONS. THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL LOCATE THE POSITION OF THE REINFORCING BARS OR ANY OTHER EMBEDDED ITEMS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY PACHOMETER, CHIPPING OR OTHER MEANS. MARK THE EXISTING REBAR OR OTHER ITEMS LOCATIONS AND THE PROPOSED ANCHOR LOCATIONS ON THE CONCRETE STRUCTURE AND NOTIFY THE **ARCHITECT** IF THERE APPEARS TO BE A CONFLICT. EXERCISE CARE IN CORING OR DRILLING TO AVOID DAMAGING EXISTING REINFORCING OR EMBEDDED ITEMS BY FIRST DRILLING A SMALL PILOT HOLE. NOTIFY THE **ARCHITECT** IF REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED DURING DRILLING. TAKE PRECAUTIONS AS NECESSARY TO ALSO AVOID DAMAGING ANY ACTIVE ELECTRICAL AND TELECOMMUNICATIONS CONDUIT.
  K. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USEIN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC 193 FOR CRACED, UNCRACKED AND SEISMIC CONCRETE RECOGNITION
  L. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED, UNCRACKED AND SEISMIC CONCRETE RECOGNITION.
  M. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICAL OVERHEAD ORIENTATIONS TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 318-11 D.9.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
  N. PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING CODE AND PER THE CURRENT ICC-ES REPORT (IBC 2012 TABLE 1705.3 NOTE B).

II. STEEL STAIRS
  A. ALL STEEL STAIR STRINGERS SHALL BE CONTINUOUS MC 12 X 10.6 MINIMUM, UNLESS NOTED OTHERWISE. STRINGERS SHALL BE MITERED AND WELDED WITH FULL PENETRATION WELDS.
  B. PLATFORMS SHALL HAVE MINIMUM 10-GAUGE FLOOR PLATES WITH L 2 X 2 X 1/4 MINIMUM, SHELF ANGLES ON ALL UNSUPPORTED SIDES. PLATFORM PLATES SHALL HAVE SUPPORTS SPACED AT 18" O.C. MAXIMUM. SUPPORTS SHALL BE L 2-1/2 X 2-1/2 X 1.4 OR WT 3 X 4.25 MINIMUM.
  C. TREAD AND RISER PLATES SHALL BE 10-GAUGE MINIMUM.
  D. ALL STEEL STAIRS ARE TO BE PRE-ENGINEERED BY THE CONTRACTOR'S FABRICATOR FOR THE LOADS GIVEN AND ALL APPLICABLE CODES WITH SHOP DRAWINGS STAMPED BY THE MANUFACTURER'S PROFESIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA AND SUBMITTED TO THE **ARCHITECT** FOR APPROVAL.

III. MASONRY
  A. MASONRY SHALL BE DESIGNED, MANUFACTURED AND ERECTED IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", (ACI 530/ASCE 5/TMS 402); AND "SPECIFICATIONS FOR MASONRY STRUCTURES", (ACI 530.1/ASCE 6/TMS 602).
  B. MASONRY INSPECTION FOR QUALITY ASSURANCE SHALL BE LEVEL **C** AS DEFINED IN THE MASONRY SPECIFICATIONS.
  C. UNIT SPECIFICATIONS:
    1. LOAD-BEARING, HOLLOW OR SOLID CMU: ASTM C- 90
    2. MIN COMPR STRENGTH ON NET AREA = 1,900 PSI
    3. SOLID CLAY OR SHALE FACING BRICK: ASTM C-216
    4. MIN COMPR STRENGTH GROSS AREA TYPE "SW": = 3,000 PSI
    5. MIN COMPR STRENGTH GROSS AREA TYPE "MW": = 2,500 PSI
    6. USE TYPE "SW" WHERE UNITS ARE EXPOSED TO WEATHER OR ARE BELOW GROUND SURFACE. OTHER AREAS SHALL BE UNITS TYPE "MW".
    7. MORTAR TYPE "M" OR "N": ASTM C-270
    8. USE TYPE "N" WHERE EXPOSED TO WEATHER AND TYPE M BELOW GROUND SURFACE. ALL OTHER AREAS SHALL BE OF TYPE "M".
    9. GROUT FOR BEAM BEARING AND COLUMN BASE PLATES:
      a. NON-SHRINK NON METALLIC ASTM C-1107 GRADE "C", F'C = 5,000 PSI.
    10. GROUT FOR FILLING CELLS OF MASONRY & BOND BEAMS:
      a. ASTM C-476 COARSE. F'C = 2,500 PSI
  D. DESIGN MINIMUM STRENGTH F'M=1500 PSI
  E. WYTHE'S OF MASONRY WALLS SHALL BE BONDED TOGETHER EACH 16" VERTICALLY (TWO BLOCK COURSES) USING CONTINUOUS HORIZONTAL WALL REINFORCING.
  F. CONTINUOUS HORIZONTAL WALL REINFORCING SHALL BE TRUSS TYPE, BUTT WELDED SIDE AND WEB BARS OF GALVANIZED W1.7 WIRES. PROVIDE PREFABRICATED CORNERS AND TEES FOR WALL INTERSECTIONS. LAP 6" AT SPLICES.
  G. PROVIDE MASONRY ANCHORS AT 16" O.C. SET ON COURSING AND ATTACHED TO ALL BEAMS AND COLUMNS EMBEDDED IN MASONRY.
  H. FILL MASONRY UNIT CELLS WITH COARSE GROUT WHERE CELLS CONTAIN REINFORCEMENT.
  I. PROVIDE BOND BEAM COURSE WHERE SHOWN. BOND BEAM SHALL BE 8" DEEP MINIMUM U.N.O. FILLED WITH COARSE GROUT AND REINFORCED WITH 2 #4 U.N.O. CONTINUOUS HORIZONTAL REINFORCING BARS, UNLESS SHOWN OTHERWISE.
  J. PROVIDE ADEQUATE BRACING AND SUPPORT FOR MASONRY WORK UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
  K. WHERE REQUIRED FOR MASONRY OPENINGS, BUT NOT SHOWN ON PLAN, PROVIDE PRECAST CONCRETE LINTELS AS FOLLOWS:

6" WALL	6" X 8" UNIT	2#4 T&B UP TO 6'-0"
8" WALL	8" X 8" UNIT	2#5 T&B UP TO 8'-0"
10" WALL	10" X 8" UNIT	2#6 T&B UP TO 8'-0"
12" WALL	12" X 8" UNIT	3#5 T&B UP TO 8'-0"

    PROVIDE #2 TIES @ 8" O.C. IN ALL PRECAST LINTELS. MAX CLEAR SPAN 8'-0". PROVIDE MINIMUM 8" 100% SOLID MASONRY BEARING EA END. PLACE NO OPENINGS ABOVE LINTEL WITHIN A HEIGHT LESS THAN THE WIDTH OF THE CLEAR OPENING BELOW LINTEL, UNLESS SHOWN OR APPROVED BY THE ENGINEER.
  L. PROVIDE #5 CORNER BARS AT ALL BOND BEAM CORNERS TO LAP A MINIMUM OF 40 BAR DIAMETERS.
  M. PROVIDE ADJUSTABLE MASONRY ANCHORS TO STEEL BEAMS AND COLUMNS WHICH ARE EMBEDDED IN MASONRY AT 2'-8" O.C. MAXIMUM.
  N. INSPECTION HOLES SHALL BE DRILLED AT THE BOTTOM INSIDE FACE OF ALL BLOCK TO VERIFY THAT THE GROUT HAS FILLED ALL MASONRY VOIDS. HOLES SHALL BE 2" IN DIAMETER SPACED AT 4'-0" O.C. (MAX.) HORIZONTALLY.
  O. PROVIDE TWO (2) COURSES OF SOLID CMU PER ASTM C 90 OR GROUT-FILLED CMU BENEATH ALL BEAM AND HEADER BEARING POINTS.
  P. PROVIDE DOWELS WITH STANDARD BAR HOOK IN FOOTING TO MATCH DIAMETER AND SPACING OF VERTICAL REINFORCEMENT. MINIMUM SPLICE LENGTH = 24".
  Q. BRICK TIES SHALL BE ATTACHED TO ALL BRICK VENEER SPACED AT 24" O.C. HORIZONTALLY AND 16" O.C. VERTICALLY (MAXIMUM). CORRUGATED TIES ARE PROHIBITED FOR WALLS WITH CAVITIES OVER 1". TIES SHALL EXTEND 3" INTO BRICK AND/OR CMU.
  R. VERTICAL AND HORIZONTAL REINFORCING BARS SHALL BE SECURELY HELD IN PROPER ALIGNMENT AND POSITION DURING GROUTING OPERATIONS BY USING HOT DIPPED GALVANIZED REBAR POSITIONERS.

IV. METAL DECKING
  A. PROVIDE MATERIALS, DESIGN AND INSTALLATION OF DECK FOR THE REQUIREMENTS OF STEEL DECK INSTITUTE'S "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS." DECK PROPERTIES SHALL BE COMPUTED USING THE LATEST EDITION OF AISI SPECIFICATION FOR THE "DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
  B. METAL ROOF DECKING SHALL BE GALVANIZED STEEL, CONFORMING TO ASTM A653 WITH MINIMUM YIELD STRESS = 33 KSI. GALVANIZING SHALL CONFORM TO ASTM A924 COATING CLASS G60. DECK DEPTH AND GAUGE SHALL BE AS INDICATED ON PLANS.
  C. ALL 1 ½ INCH DECKING SHALL BE WELDED TO STRUCTURAL STEEL MEMBERS WITH **5/8"** PUDDLE WELDS TO ACHIEVE A **36/5** LAYOUT. SIDE LAPS FOR METAL DECK DIAPHRAGM SHALL BE **3 #10** TEK SCREWS PER SPAN.

  D. STEEL DECK SHALL BE INSTALLED CONTINUOUS MORE THAN 3 SPANS MINIMUM (U.N.O.) AND SHALL BEAR AT LEAST 2" ON STEEL ON STEEL SUPPORTS.
  E. FURNISH AND INSTALL CONTINUOUS CLOSURES AND POUR STOPS AT DECK ENDS, EDGES AND OPENINGS WHERE NO STEEL ANGLE IS SPECIFIED.

  A. PROVIDE SUPPLEMENTAL FRAMING **L4 X 4 X 3/8 OR TS 2 1/2 X 2 1/2 X** ¼ AS NECESSARY FOR THE SUPPORT OF METAL DECK WHERE NOT SHOWN ON DRAWINGS, UNLESS OTHERWISE INDICATED.
  B. SUPPORTS FOR DECK OPENINGS SHALL BE FABRICATED SO THAT THE DECK RUNS CONTINUOUSLY OVER THE OPENING. DECK SHALL BE CUT FROM THE OPENING IMMEDIATELY PRIOR TO PLACING THE EQUIPMENT OVER THE OPENING OR WALLS AROUND THE SHAFT. EXCEPT WHERE CONCRETE FILL IS PROVIDED.

II. LIGHT GAGE METAL FRAMING
  A. LIGHT GAGE METAL FRAMING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS," NAS-01 WITH 2004 SUPPLEMENT.
  B. PROVIDE DESIGN AND DETAILING FOR LIGHTGAGE FRAMING AND SUBMIT CALCULATIONS AND SHOP DRAWINGS UNDER THE SEAL AND SIGNATURE OF AN ENGINEER LICENSED TO PRACTICE IN THE LOCAL JURISDICTION. DESIGN LIGHT GAGE MEMBERS IN ACCORDANCE WITH MANUAL OF THE LIGHT GAGE STRUCTURAL INSTITUTE, "LIGHT GAGE STRUCTURAL STEEL FRAMING SYSTEM DESIGN HANDBOOK." THE SUBMISSION SHALL ALSO INCLUDE:
    1. CROSS-SECTIONS, PLANS AND ELEVATIONS.
    2. CONNECTION DETAILS SHOWING REQUIRED SCREWS/WELDS/PAF'S.
    3. FLOOR TO FLOOR ELEVATIONS.
    4. DIMENSIONS.
    5. BRIDGING LOCATIONS.
  C. LIGHTGAGE FRAMING MEMBERS: SHALL BE IN ACCORDANCE WITH ASTM A-653, FY = **33,000 PSI,** MIN.
  D. ALL WELDING SHALL BE IN ACCORDANCE WITH THE "AMERICAN WELDING SOCIETY D.1.3, 1996 STRUCTURAL WELDING CODE FOR SHEET STEEL." MIN. 14 GAUGE MEMBERS SHALL BE USED AT WELDED CONNECTIONS. ALL WELDS SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
  E. ALL AXIALLY LOADED STUDS SHALL HAVE FULL BEARING INSIDE TRACK WEB PRIOR TO ATTACHMENT. NO SPLICES IN LOADED STUDS ARE PERMITTED.
  F. WALL STUD BRACING SHALL BE INSTALLED AT THIRD POINTS IN ALL BEARING PARTITIONS; AT MID-HEIGHT IN NON-LOAD BEARING PARTITIONS.
  G. JOISTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS, OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP TRACK.
  H. DOUBLE STUDS AND WEB STIFFENERS SHALL BE PROVIDED AT ALL JOIST HEADER BEARING POINTS.
  I. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
  J. UNIFORM AND LEVEL JOIST BEARING SHALL BE PROVIDED IN ALL CASES.
  K. ADDITIONAL JOISTS SHALL BE PROVIDED UNDER PARALLEL PARTITIONS WHEN THE PARTITION LENGTH EXCEEDS ONE-HALF THE JOIST SPAN; ALSO, ADDITIONAL JOISTS SHALL BE PROVIDED AROUND ALL FLOORS AND ROOF OPENINGS WHICH INTERRUPT ONE OR MORE SPANNING MEMBERS.
  L. ALL LIGHT GAGE FRAMING SHALL BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR THE CODE REQUIRED LOADS. STUDS SUPPORTING MASONRY VENEER SHALL LIMIT LATERAL DEFLECTION TO L/600. SHOP DRAWINGS SHALL BE PREPARED UNDER AND STAMPED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION SUBMITTED TO THE **ARCHITECT** FOR APPROVAL.
  M. INTERIOR WALLS STUDS: MAX SPACING: = 24" MAX DEFL = L/360 VERTICAL SPAN: TO 10'-0" MIN. WEB = 2 1/2" DEEP

10'-1" TO 13'-0"	= 3 5/8"
13'-1" TO 15'-0"	= 4"
15'-1" TO 20'-0"	= 6"
20'-1" TO 26'-0"	= 8"

III. GENERAL
  A. INFORMATION SHOWN REGARDING EXISTING CONDITIONS HAS BEEN OBTAINED BY LIMITED VISUAL OBSERVATIONS OR FROM DRAWINGS PROVIDED BY THE OWNER. AREAS NOT VISIBLE HAVE BEEN ASSUMED TYPICAL WITH OBSERVED EXISTING CONDITIONS.
  B. MEASURE AND PROVIDE ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE PRIOR TO CONSTRUCTION AND THE SUBMISSION OF SHOP DRAWINGS, AND NOTIFY THE **ARCHITECT** IMMEDIATELY OF ANY DISCREPANCIES. VERIFICATION AND NOTIFICATION SHALL PROCEED **2** WEEKS PRIOR TO THE START OF WORK SO THAT ANY NECESSARY CHANGES CAN BE MADE WITHOUT DELAYING THE PROJECT SCHEDULE.
  C. DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE UNLESS OTHERWISE SHOWN OR NOTED.
  D. SHOP DRAWINGS SUBMITTED TO **ARCHITECT** SHALL BEAR THE CONTRACTOR'S STAMP, DATE AND SIGNATURE VERIFYING DOCUMENTS HAVE BEEN REVIEWED AND CORRECTED FOR CONFORMANCE TO AND COORDINATION WITH CONTRACT DOCUMENTS.
  E. FABRICATION SHALL PROCEED ONLY AFTER SHOP DRAWING APPROVAL BY THE ENGINEER.
  F. DO NOT REPRODUCE ANY PORTION OF CONTRACT DOCUMENTS IN THE SHOP DRAWINGS.
  G. INSPECTION REPORTS AND MATERIALS TESTING REPORTS SHALL BE SUBMITTED TO THE ENGINEER IN A TIMELY MANNER SUCH THAT CONSTRUCTION DELAY WILL BE AVOIDED.
  H. MEANS AND METHODS OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  I. FILL ALL FLOOR AND ROOF OPENINGS WHERE EXISTING MECHANICAL, ELECTRICAL OR PLUMBING OPENINGS ARE TO BE ABANDONED. SEE APPROPRIATE DEMOLITION DRAWINGS FOR LOCATION AND QUANTITY OF EXISTING OPENINGS. ASSUME ALL EXISTING OPENINGS ARE 6 INCHES WIDER THAN SIZE OF EXISTING SYSTEM COMPONENT TO BE REMOVED.
  J. WHERE THE CONTRACTOR IS REQUIRED TO ENGAGE A PROFESSIONAL ENGINEER TO DESIGN AND SUBMIT CALCULATIONS, AND WHERE THE PROFESSIONAL ENGINEER PREPARES THE CALCULATIONS USING A COMPUTER SOFTWARE SYSTEM, THE SOFTWARE SHALL BE A READLY AVAILABLE, INDUSTRY STANDARD STRUCTURAL ENGINEERING COMMERICAL SYSTEM IN COMMON USE.

IV. STRUCTURAL DEMOLITION (EXCLUDING CONCRETE REPAIRS)
  A. ALL MEANS AND METHODS OF REMOVING EXISTING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  B. THE CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. THE DRAWINGS DO NOT SHOW ALL OPENINGS REQUIRED. ADDITIONAL OPENINGS, BLOCKOUTS AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR THE CRITERIA INCIDATED ON THE DRAWINGS. OPENINGS REQUIRED BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
  C. ALL NEW OPENINGS THROUGH EXISTING STRUCTURE SHALL BE LOCATED AND MARKED BY THE CONTRACTOR. IF OPENING ARE THROUGH REINFORCED CONCRETE, FIND AND MARK THE LOCATION OF THE REINFORCEMENT. DO NOT CUT OPENINGS UNTIL APPROVED BY **ARCHITECT.**
  D. WHERE NEW OPENINGS IN EXISTING CONCRETE SLAB OR WALLS ARE TO BE CREATED, THE DEMOLITION CONTRACTOR SHALL CORE HOLES AT THE OUTSIDE CORNERS OF THE NEW OPENING PRIOR TO DEMOLITION. SAW-CUT AND DEMOLISH SLAB OR WALL ONLY AFTER THE INSTALLATION OF ALL REQUIRED NEW STRUCTURAL FRAMING AND/OR REINFORCEMENT IN PLAN OR SECTION, UNO. SAW CUTTING SHALL BE STRAIGHT AND SHALL NOT EXTEND INTO EXISTING SLAB OR WALL TO REMAIN NOR BEYOND THE HOLES CORED AT THE CORNERS OF THE NEW OPENING.
  E. THE EXISTING BUILDINGS **WILL NOT** BE OCCUPIED DURING THE WORK. COORDINATE WORK SCHEDULE AND ACTIVITIES WITH THE **ARCHITECT.**
  F. DO NOT ALLOW DUST, WATER OR DEBRIS TO ENTER MECHANICAL SYSTEMS. CLEAN ALL EQUIPMENT AND REPLACE FILTERS AFTER CONSTRUCTION.
  G. PROVIDE SIGNAGE AND BARRICADES AT ALL EGRESS DOORS INTO WORK AREA INDICATING "NO ENTRY" INTO WORK AREAS. PROVIDE CONSTRUCTION SIGNAGE EVERY 15 FEET. SUBMIT SIGNAGE AND BARRICADE PLAN TO **ARCHITECT** FOR APPROVAL.
  H. PROVIDE TEMPORARY VENTILATION TO INSIDE THE ENCLOSURE WITH A MINIMUN 50 CUBIC FEET PER MINUTE PER 100 SQUARE FEET OF ENCLOSED AREA, FRESH AIR EXCHANGE.
  I. PROTECT ALL EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO: FLOOR DRAINS, WATER AND SEWER LINES, SPRINKLER LINES, STEAM AND CONDENSATE LINES, ELECTRICAL, COMMUNICATIONS, LIGHTS, SENSORS, SIGNAGE, AIR DUCTS, AIR VENTS, MECHANICAL AND HEATING UNITS.
  J. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO ANY STRUCTURAL ELEMENT WHICH IS TO REMAIN AND THAT HAS BEEN DAMAGED DURING THE DEMOLITION PROCESS. THE REPAIRS SHALL BE AT NO EXPENSE TO THE OWNER AND SHALL BE PERFORMED TO THE COMPLETE SATISFACTION OF THE OWNER. ALL REPAIR WORK SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE JURISDICATION AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO COMMENCING REPAIR WORK.
  K. ALL DEBRIS FROM DEMOLITION AND/OR REPAIR WORK SHALL BE LEGALLY TRANSPORTED AND DISPOSED OF OFF SITE. DO NOT STORE DEBRIS ON THE STRUCTURE.

1. SHORING AND BRACING
  A. ENGAGE A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN LOCAL JURISDICATION TO PERFORM AN ENGINEERING SURVEY OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT COULD RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF STRUCTURE OR ADJACENT STRUCTURES DURING DEMOLITION OPERATIONS.
    1. SUBMIT SURVEY A MINIMUM OF TWO WEEKS BEFORE SCHEDULED START OF WORK OR EARLIER IF NECESSARY TO AVOID DELAYS.
    2. ENGINEER SHALL PREFORM SURVEYS AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM STRUCTURAL DEMOLITION ACTIVITIES.
  A. AS A MINIMUM, THE CONTRACTOR SHALL SHORE AND BRACE THE EXISTING STRUCTURE TO THE EXTENT INDICATED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL INSTALL ADDITIONAL SHORING AND BRACING AS DETERMINED BY THE CONTRACTOR'S PROFESSIONAL ENGINEER.
  B. CONTRACTOR'S PROFESSIONAL ENGINEER SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE DESIGN OF ALL REQUIRED SHORING AND BRACING. TO ENSURE STABILITY OF EXISTING AND NEW STRUCTURE AND COMPLIANCE WITH DESIGN CRITERIA.
  C. DESIGN TEMPORARY SHORING AND BRACING FOR SELF WEIGHT OF STRUCTURE, CODE WIND LOADS, AND A MINIMUM CONSTRUCTION LOAD OF 100 PSF OR 3,000 LBS POINT LOAD OR ACTUAL LOAD WHICHEVER PRODUCES GREATER STRESSES. THE DESIGN PROCEDURES SHALL COMFORM TO ALL GOVERNING CODES AND SAFETY REQUIREMENTS.
  D. SHORE AND BRACE EXISTING STRUCTURE PRIOR TO DEMOLITION WORK AND UNTIL PERMANENT NEW STRUCTURE OR REPAIRED EXISTING STRUCTURE CAN SUPPORT LOADS.
  E. PROVIDE ADEQUATE TEMPORARY BRACING AND SUPPORT FOR ALL NEW WORK INCLUDING BUT NOT LIMITED TO UNBRACED MASONRY WORK UNTIL PERMANENT CONSTRUCTION IN PLACE.
  F. MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING, AND STRUCTURAL SUPPORTS TO PRESERVE STABILITY AND PREVENT MOVEMENT OR COLLAPSE OF ANY PART OF STRUCTURE.
    1. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF DEMOLITION.
  G. BRACING
    1. BRACING: LOCATE BRACING TO CLEAR COLUMNS, FLOOR FRAMING CONSTRUCTION, AND OTHER PERMANENT WORK. IF NECESSARY TO MOVE BRACE, INSTALL NEW BRACING BEFORE REMOVING ORIGINAL BRACE.
    1. DO NOT PLACE BRACING WHERE IT WILL BE CAST INTO OR INCLUDED IN PERMANENT CONCRETE WORK.
    2. INSTALL INTERNAL BRACING IF REQUIRED TO PREVENT SPREADING OR DISTORTION OF BRACED FRAMES.
    3. MAINTAIN BRACING UNTIL STRUCTURAL ELEMENTS ARE SUPPORTED BY OTHER BRACING OR UNTIL PERMANENT CONSTRUCTION IS ABLE TO WITHSTAND DESIGN LOADS.

II. TESTING AND INSPECTION
  THE **OWNER WILL** RETAIN THE SERVICES OF A TESTING AND INSPECTION AGENCY TO PERFORM THE SERVICES SPECIFIED.
  A. MINIMUM SERVICES PROVIDED SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL JURISDICTION.
  B. FAILURE TO RETAIN A TESTING AGENCY TO PROVIDE REQUIRED SERVICES OR A FAILURE TO SUBMIT SIGNED AND SEALED REPORTS SHALL BE CONSIDERED NON-COMPLIANCE WITH CONTRACT DOCUMENTS.
  C. CONSTRUCTION CONSIDERED NON-COMPLIANT SHALL BE REMOVED AND REPLACED.
  D. ALL TESTING AND INSPECTION SHALL BE UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE LOCAL JURISDICTION.
  E. PRELIMINARY HAND WRITTEN SITE VISIT REPORTS CONFIRMING VERBAL DISCUSSIONS SHALL BE PROVIDED TO THE CONTRACTOR ON RESULTS OF INSPECTIONS PRIOR TO LEAVING JOB SITE.
  F. FINAL REPORTS SHALL BE SUBMITTED TO THE **ARCHITECT** IN A TIMELY MANNER, BUT NO LATER THAN TEN (10) DAYS FOLLOWING INSPECTION OR TESTING. UNDER THE NAME AND SIGNATURE OF THE INSPECTOR AND LICENSURE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER RESPONSIBLE FOR TESTING AND INSPECTION.
  G. INSPECTION SHALL MINIMALLY INCLUDE THE FOLLOWING:
    1. FOUNDATIONS & EARTHWORK: FOOTINGS AND DEEP FOUNDATIONS, FILLS, SLAB SUB-GRADE, PERIMETER AND UNDERFLOOR DRAINAGE SYSTEMS.
    2. REINFORCING: LOCATION, ASTM DESIGNATION, BAR SIZES, TYPE **(PLAIN OR EPOXY COATED)**, QUANTITY, PLACEMENT, SPACING, AND CLEARANCES.
    3. CONCRETE: ALL STRUCTURAL CONCRETE; LOCATION, STRENGTH, TYPE (NORMAL OR LIGHTWEIGHT), SLUMP, PLACEMENT, AIR TEMPERATURE, CURING AND WEATHER ACCOMMODATIONS AND CONCRETE ADDITIVES.
    4. STRUCTURAL STEEL: LOCATION, ASTM DESIGNATION, MEMBER SIZES, TYPE **(PLAIN, PAINTED, GALVANIZED, STAINLESS)**, PLACEMENT AND CONNECTIONS INCLUDING WELDS AND BOLTS, STUDS IN COMPOSITE CONSTRUCTION, POST INSTALLED ANCHORS, ANCHOR BOLTS AND GROUTING.
    5. MASONRY: MASONRY INSPECTION FOR QUALITY ASSURANCE SHALL BE LEVEL **C** AS DEFINED IN THE MASONRY SPECIFICATIONS AND SHALL MINIMALLY INCLUDE INSPECTION OF UNITS, GROUT, REINFORCING, ANCHOR BOLTS AND LINTELS. AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE: PROPORTIONS OF SITE PREPARED MORTAR, CONSTRUCTION OF MORTAR JOINTS, LOCATION OF REINFORCEMENT AND CONNECTORS. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE: GROUT SPACE, GRADE AND SIZE OF REINFORMENT, PLACEMENT OF REINFORCEMENT, ANCHORS, TIES, AND CONNECTORS, PROPORTIONS OF SITE PREPARED GROUT, AND CONSTRUCTION OF MORTAR JOINTS. VERIFY PLACEMENT OF GROUT, PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.
    6. WOOD: LUMBER, FOR IMPERFECTIONS THAT ARE CAUSE FOR REJECTION, NAILING, LIGHT GAUGE CONNECTION PLATES, BOLTED PLATES, OTHER CONNECTIONS AND FOUNDATION ANCHORAGE.
  H. MATERIAL TESTING SHALL MINIMALLY INCLUDE THE FOLLOWING:
    1. FOUNDATION & EARTHWORK: SOIL BEARING CAPACITIES AND COMPACTION DENSITIES.
    2. REINFORCING: YIELD AND ULTIMATE STRENGTHS. (MILL REPORTS ARE ACCEPTABLE.)
    3. CONCRETE: SLUMP TESTS; EVERY THIRD TRUCKLOAD OF CONCRETE AND IN ADDITION, ONE FOR EACH SET OF STRENGTH-TEST CYLINDERS AT PREPARATION. STRENGTH TESTS; ONE SET OF CYLINDERS FOR MAXIMUM OF EACH 50 CY OF CONCRETE PLACEMENT. ONE SET OF CYLINDERS FOR EACH 2500 SQUARE SLAB AREA.
    4. STRUCTURAL STEEL: YIELD AND ULTIMATE STRENGTHS. (MILL REPORTS ARE ACCEPTABLE.)
    5. MASONRY: MATERIALS CERTIFICATES AND VERIFICATION OF F'M PRIOR TO CONSTRUCTION.
  I. COMPLY WITH CODE REQUIREMENTS AND THE FOLLOWING:
    1. CONCRETE CYLINDERS: ONE SET OF 6 LABORATY CURED 6x12 CYLINDERS SHALL BE TAKEN FOR EACH DAY'S POUR FOR EACH MIX: (2) 7-DAY, (2) 28-DAY, (2) HOLD;
    2. ONE SET OF 4 FIELD CURED 6x12 CYLINDERS SHALL BE TAKEN FOR EACH DAY'S POUR FOR EACH MIX (2) 7 –DAY, (2) 28-DAY.
  J. FIELD CURED CYLINDERS SHALL BE CURED IN ACCORDANCE WITH CODE REQUIREMENTS OR IF NOT APPLICABLE THEN CURED IN SAME CONDITIONS AS CONCRETE IN WORK.
  K. ONE SET OF MORTAR CUBES FOR COMPRESSIVE STRENGTH TESTING SHALL BE MADE IN ACCORDANCE WITH ASTM C91 AND C270 AT A FREQUENCY OF ONE TEST PER WEEK.
  L. MASONRY PRISM TESTS IN CONFORMANCE WITH ASTM E447 METHOD B SHALL BE CONDUCTED AT A FREQUENCY OF ONE TEST PER WEEK.
  M. PROOF LOADS FOR POST-INSTALLED ANCHORS, AS SHOWN ON THE DRAWINGS, SHALL BE USED FOR TESTING TENSION IN POST-INSTALLED ANCHORS AND SHALL BE APPLIED WITH A CALIBRATED HYDRAULIC RAM. THE TESTING AGENCY SHALL PROVIDE A CALIBRATION CHART DATED WITHIN ONE YEAR. DISPLACEMENT OF ADHESIVE AND CAPSULE ANCHORS AT PROOF LOAD SHALL NOT EXCEED D/10, WHERE D IS THE NOMINAL ANCHOR DIAMETER.

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△	Revisions	
1	PERMIT	2/11/22
2	BID SET	8/08/22

DESIGN NOTES

Scale
Drawn SO
Checked SW

S001

BID SET

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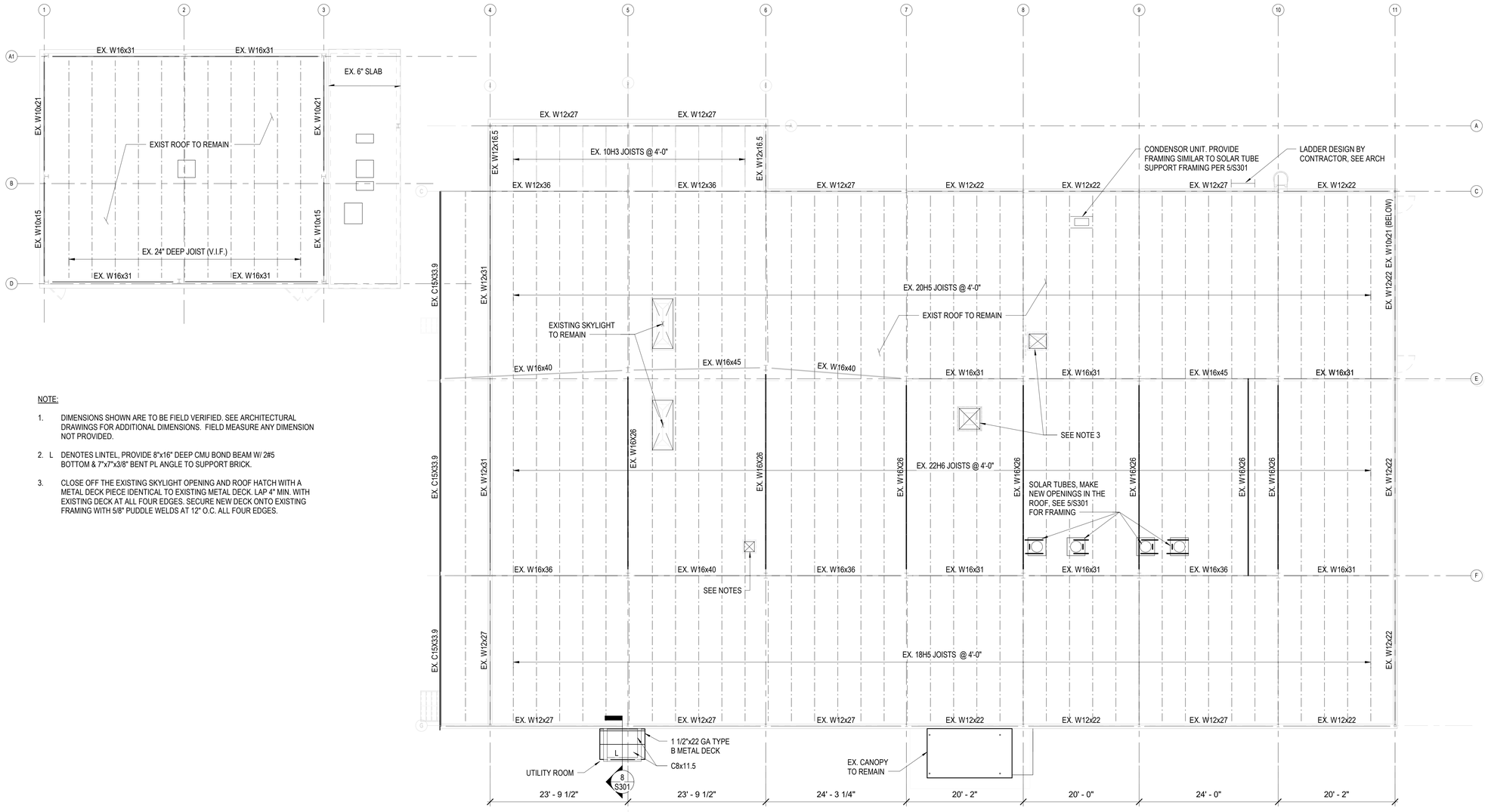
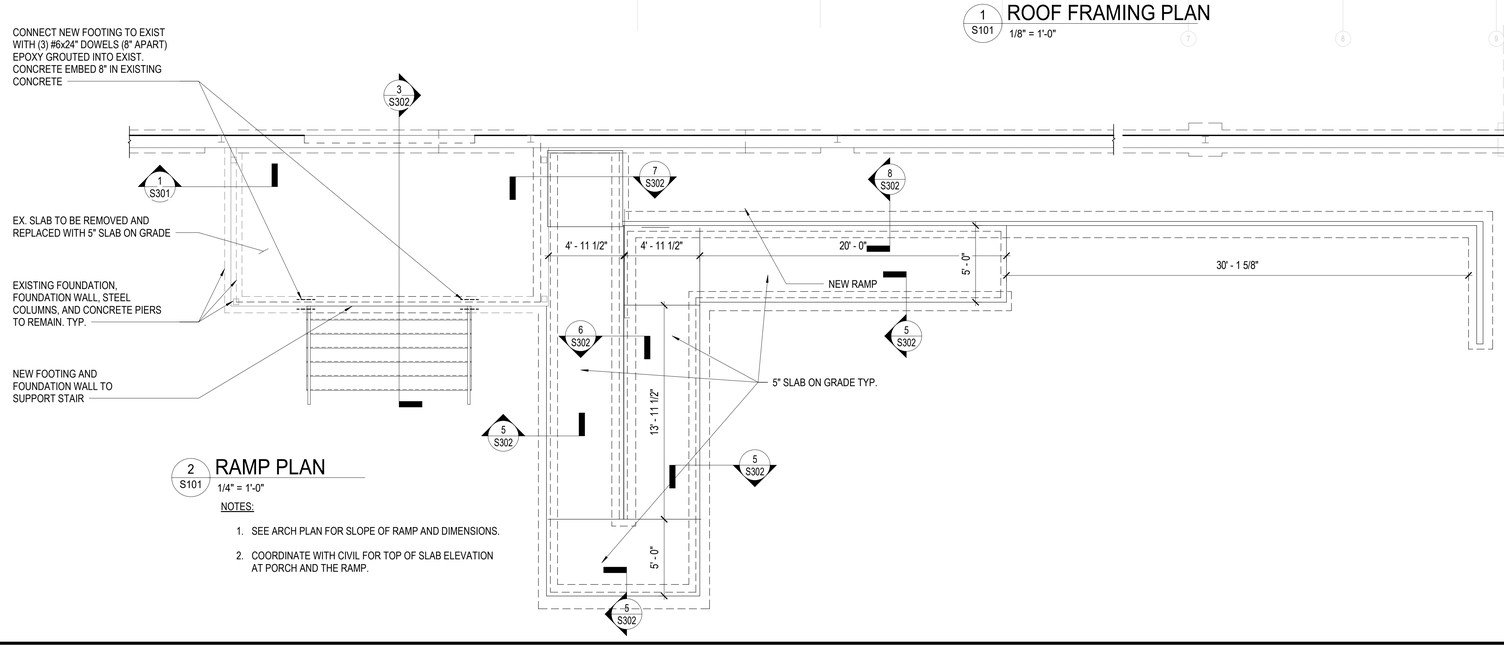


1 S101 ROOF FRAMING PLAN
1/8" = 1'-0"

NOTE:

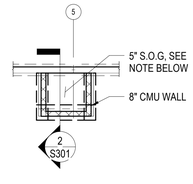
1. DIMENSIONS SHOWN ARE TO BE FIELD VERIFIED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS. FIELD MEASURE ANY DIMENSION NOT PROVIDED.
2. L DENOTES LINTEL, PROVIDE 8"x16" DEEP CMU BOND BEAM W/ 2#5 BOTTOM & 7"x7"x3/8" BENT PL ANGLE TO SUPPORT BRICK.
3. CLOSE OFF THE EXISTING SKYLIGHT OPENING AND ROOF HATCH WITH A METAL DECK PIECE IDENTICAL TO EXISTING METAL DECK. LAP 4" MIN. WITH EXISTING DECK AT ALL FOUR EDGES. SECURE NEW DECK ONTO EXISTING FRAMING WITH 5/8" PUDDLE WELDS AT 12" O.C. ALL FOUR EDGES.



2 S101 RAMP PLAN
1/4" = 1'-0"

NOTES:

1. SEE ARCH PLAN FOR SLOPE OF RAMP AND DIMENSIONS.
2. COORDINATE WITH CIVIL FOR TOP OF SLAB ELEVATION AT PORCH AND THE RAMP.



3 S101 UTILITY CLOSET FOUNDATION PLAN
1/8" = 1'-0"

NOTES:

1. COORDINATE W/ ARCH FOR DIMENSIONS.
2. 5" SLAB ON GRADE SHALL BE PLACED ON 10 MIL. POLYETHYLENE VAPOR BARRIER OVER A 4" CRUSHED STONE LAYER. REINFORCE THE SLAB WITH 6x6-W2.9xW2.9 WWF.

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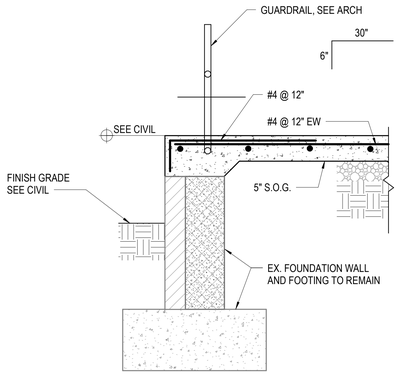
1	PERMIT	2/11/22
2	BID SET	8/08/22

ROOF FRAMING AND PARTIAL FOUNDATION PLANS

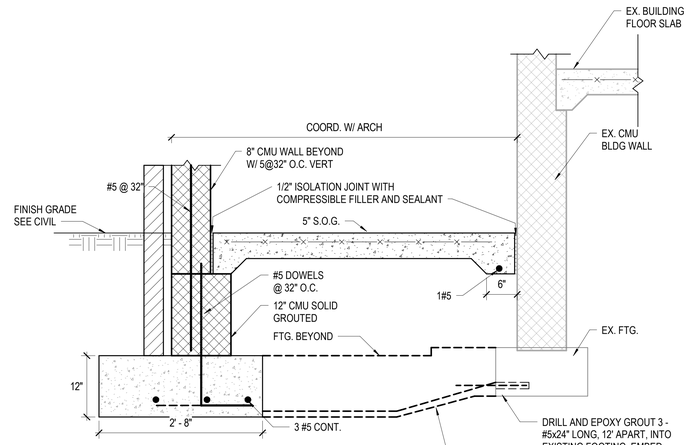
Scale **As indicated**
Drawn SO
Checked SW

S101

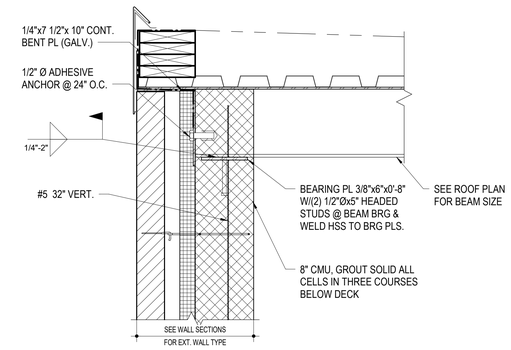
BID SET



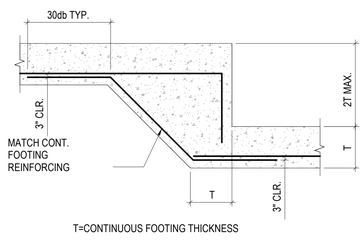
1 S301 SECTION @ PORCH
1" = 1'-0"



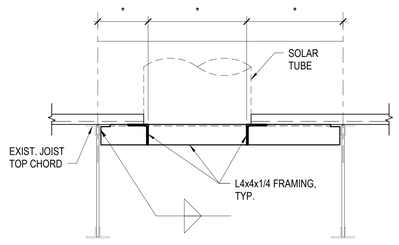
2 S301 SECTION
1" = 1'-0"



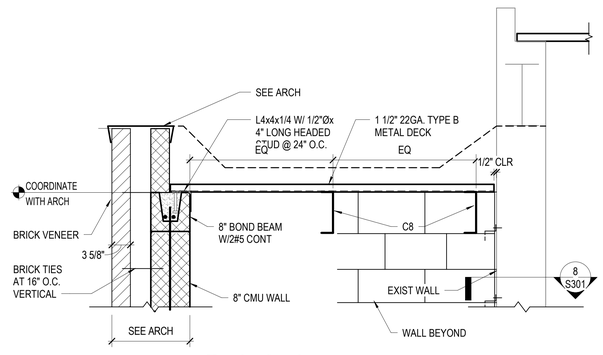
3 S301 GRAVEL STOP ROOF EDGE @ CMU WALL
1 1/2" = 1'-0"



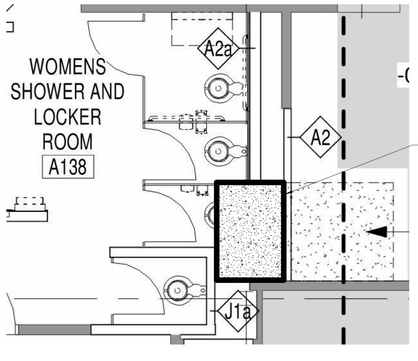
4 S301 TYP. STEPPED FOOTING DETAIL W/ SINGLE LAYER REINF.
1/2" = 1'-0"



5 S301 SECTION @ SOLAR TUBE
1" = 1'-0"

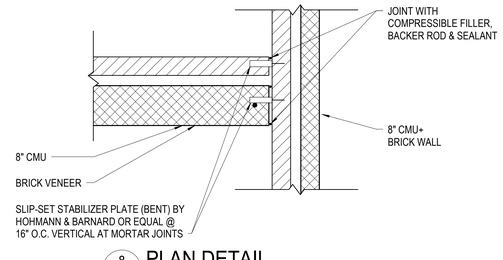


6 S301 SECTION
1" = 1'-0"



INFILL THE EXISTING RECESSED SLAB WITHIN THE WOMEN'S BATHROOM WITH 4000 PSI CONCRETE. ROUGHEN AND CLEAN THE SURFACE AND APPLY A BONDING AGENT PRIOR TO POURING CONCRETE. CONTRACTOR TO FIELD VERIFY THE DEPTH OF REFILL. IF THE DEPTH EXCEED 2" OR MORE, ADD 6X6-W1.4XW1.4 WWF IN THE MID DEPTH OF THE INFILL

7 S301 INFILL AT EXISTING SLAB DEPRESSION
3/16" = 1'-0"



8 S301 PLAN DETAIL
1" = 1'-0"

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SECTIONS AND DETAILS

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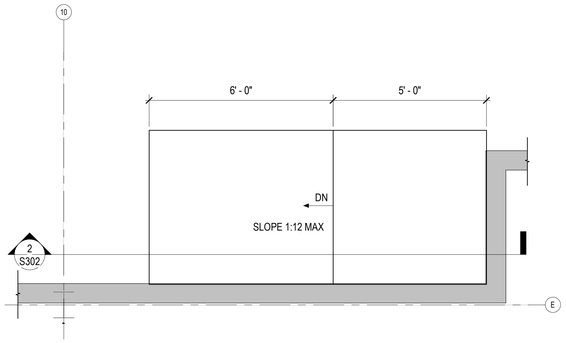
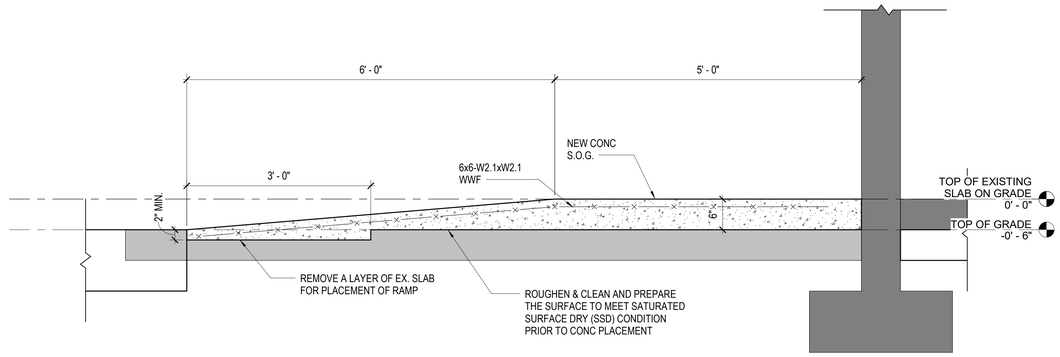
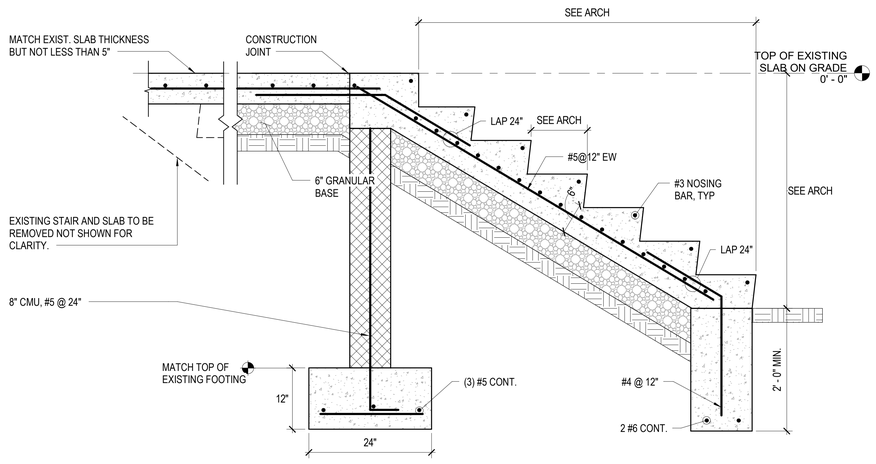


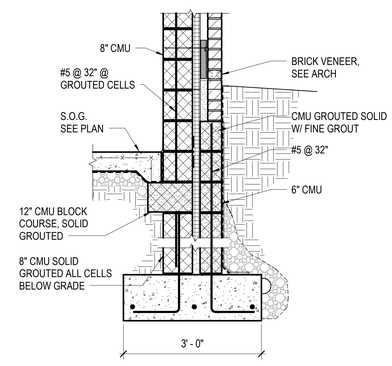
1 S302 SERVICE BAY RAMP PLAN
1/2" = 1'-0"



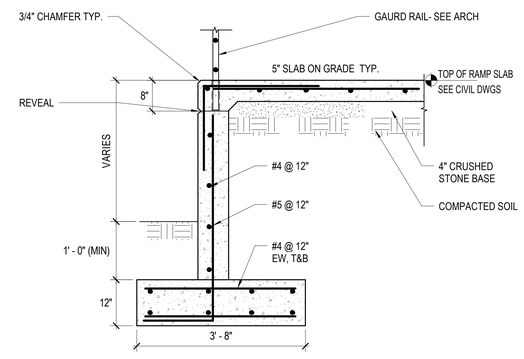
2 S302 SERVICE BAY RAMP SECTION
1" = 1'-0"



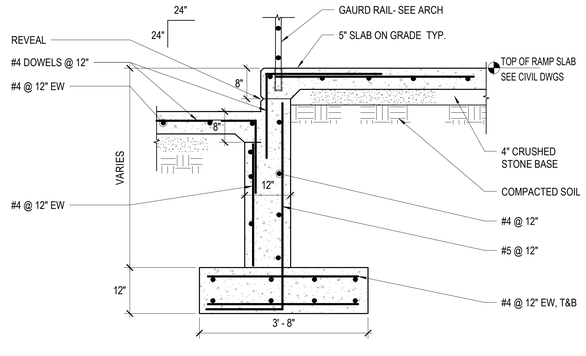
3 S302 ENTRY STAIR SECTION
1" = 1'-0"



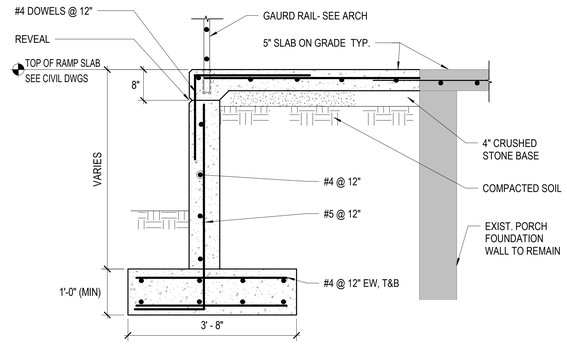
4 S302 SECTION
3/4" = 1'-0"



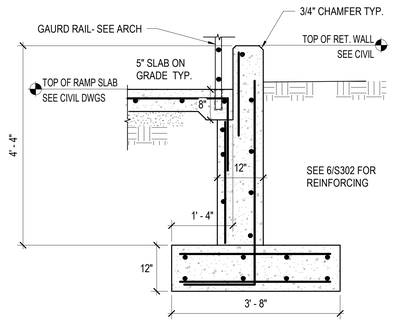
5 S302 SECTION
3/4" = 1'-0"



6 S302 SECTION
3/4" = 1'-0"



7 S302 SECTION
3/4" = 1'-0"



8 S302 SECTION
3/4" = 1'-0"

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2	BID SET	8/08/22

SECTIONS AND DETAILS

Scale **As indicated**
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MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Dampers

- CONSTANT AIRFLOW REGULATOR DAMPER
- FIRE DAMPER
- FIRE/SMOKE DAMPER
- MOTORIZED DAMPER
- SMOKE DAMPER
- VOLUME DAMPER

Diffusers and Grilles

- 12x12 / 100 / CD-1 — DIFFUSER OR GRILLE IDENTIFICATION
- SLOT DIFFUSER
- EXHAUST AIR
- RETURN AIR
- RETURN/EXHAUST AIR FLOW
- SUPPLY AIR
- SUPPLY AIR FLOW

Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- BELLMOUTH
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- DUCTWORK TO BE DEMOLISHED
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLAT OVAL DUCT DROP
- FLAT OVAL DUCT RISER
- FLEX DUCT
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR MAIN WITH RECTANGULAR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15%%d
- RECTANGULAR OFFSET MORE THAN 15%%d
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE
- FLAT OVAL DUCT ELBOW
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW

Equipment

- CHILLER, AIR COOLED
- CHILLER, WATER COOLED
- COOLING TOWER

General

- CONTINUATION
- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
- X — FIXTURE TAG (LEVEL BELOW FIXTURE)
- XX — FOOD SERVICE EQUIPMENT / CALCULATION TAG
- X — KEYED NOTE
- LIMIT OF DEMOLITION
- PIPE BELOW GRADE
- POINT OF CONNECTION
- X / XXX — SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- DEMOLISH (DASH-DOT)
- EXISTING WORK
- NEW WORK
- 30X16 — RECTANGULAR DUCT SIZING
- 30"Ø — ROUND DUCT SIZING
- 30/16 — FLAT OVAL DUCT SIZING

GENERAL MECHANICAL NOTES

A. THE ENTIRE MECHANICAL SYSTEMS, INSTALLATION AND TESTING MUST BE IN COMPLIANCE TO THE LOCAL ADOPTED BUILDING CODES.

B. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

C. IN THE EVENT OF A DISCREPANCY BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING STATE AND LOCAL FIRE AND BUILDING CODES, NFPA, AND OSHA. INSTALL ALL PIPING AND DUCTWORK TO AVOID ARCHITECTURAL FRAMING, STRUCTURAL MEMBERS, AND OTHER OBSTRUCTIONS. COORDINATE PIPING AND DUCTWORK LOCATION WITH ALL APPLICABLE CONTRACT DRAWINGS PRIOR TO PLACING SLEEVES IN FLOORS OR WALLS. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATIONS OF PIPING OR DUCTWORK.

D. SEE ARCHITECTURAL REFLECTED CEILING PLANS TO COORDINATE EXACT DIFFUSER LOCATIONS IN FINISHED CEILING. COORDINATE DUCTWORK, PIPING WITH STRUCTURAL DRAWINGS, LIGHTING, AUDIO VISUAL AND SPRINKLER SYSTEM. PROVIDE TRANSITIONS AS REQUIRED. COORDINATE LOCATIONS OF ACCESS DOORS WITH F.D.'S, V.D.'S, SD, ETC. THE OPENING SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE AND RESETTING OF THE DEVICE.

E. PROVIDE ALL MISCELLANEOUS STEEL, SPECIAL SUPPORTS AND ANCHORING FOR ALL MECHANICAL EQUIPMENT REQUIRING SUCH. REFER TO STRUCTURAL DRAWINGS.

F. ALL DUCT DIMENSIONS ARE AIRSTREAM DIMENSIONS.

G. SEAL ALL FIRE RATED PENETRATIONS WITH FIRE RETARDANT MATERIAL AS SPECIFIED.

H. THERMOSTAT APPEARANCE SHALL BE COORDINATED WITH THE ARCHITECT/OWNER(48" AFF).

I. PROVIDE OPERATING HANDLES FOR ALL VALVES AND COCKS WITHOUT INTEGRAL OPERATORS.

J. ALL BRANCH DUCTS TO AIR OUTLET SHALL BE EQUIPPED WITH DUCT VOLUME DAMPER. NO INTEGRAL OBD'S WITHIN DIFFUSERS OR REGISTER.

K. DUCTS STORED ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST CONTAMINATION

L. AT CONTRACTOR DISCRETION HE MAY SUBSTITUTE RECTANGULAR DUCTWORK TO ROUND DUCTWORK, WHERE PHYSICAL OBSTRUCTIONS DO NOT INTERFERE. THE SUBSTITUTION WILL REQUIRE THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES. DUCT PRESSURE DROPS AND VELOCITIES MAY NOT EXCEED THAT SHOWN ON BID DOCUMENTS.

M. SEE ARCHITECTURAL DOCUMENTS FOR PAINTING OF ALL EXPOSED DUCTWORK, PIPING, AIR OUTLETS, FIXTURE TRIM, AND MECHANICAL EQUIPMENT.

N. UNLESS SPECIFICALLY SPECIFIED OR SHOWN OTHERWISE ALL CONSTRUCTION IS TO CONFORM TO SMACNA HVAC CONSTRUCTION STANDARDS AS A MINIMUM REQUIREMENT.

O. ALL PIPING TO BE LOCATED INSIDE WALL CAVITIES OR INACCESSIBLE SPACES SHALL BE LEAK TESTED AND INSULATED WITH VAPOR BARRIER SEAL BEFORE INSTALLATION (TYPICAL).

P. CORE DRILL CONCRETE WALL FOR PIPE PENETRATIONS. DIAMETER OF WALL OPENING SHALL BE 2 INCHES LARGER THEN THE DIAMETER OF PIPE WITH INSULATION. SEAL ALL PENETRATIONS WITH UL APPROVED SEALANT. (REFER TO ARCHITECTURAL RECOMMENDATIONS).

Q. ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.

R. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. ANY PORTION OF THE WORK FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

S. NOT ALL DUCT TRANSITIONS AND/OR OFFSETS ARE SHOWN. PROVIDE TRANSITIONS AND/OR OFFSETS AT NO ADDITIONAL COST TO OWNER.

T. FSD'S SHALL BE FURNISHED BY DIV. 23, INSTALLED BY DIV. 23, POWER, AND WIRING BY DIV. 26, CONTROL, AND FACP WIRING BY DIV. 26. CONTROLS CONTRACTOR SHALL PROVIDE FSD STATUS FROM FSD END SWITCH AT OPERATOR WORK STATION.

U. PROVIDE ALL REQUIRED MISCELLANEOUS STEEL FOR COMPLETE INSTALLATION OF SYSTEMS AND FOR SUPPORT OF DUCTWORK, PIPING, ETC. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ALL CONDITIONS SHALL BE CONTRACTOR COORDINATED AND VERIFIED FOR EXACT LOCATION AND SIZES. THE CONTRACTOR IS RESPONSIBLE TO THOROUGHLY VERIFY ALL CONDITIONS BEFORE SUBMITTING HIS BID.

V. ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES.

W. SUPPLY AND RETURN DUCTWORK SHALL BE SEALED AS APPROPRIATE FOR 3 INCH DUCT PRESSURE CLASSIFICATION.

X. ZONE THERMOSTAT CONTROLS SHALL PROVIDE A TEMPERATURE DEADBAND OF AT LEAST 5 DEGREES F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING TO THE ZONE IS CAPABLE OF BEING REDUCED TO A MINIMUM.

SHEET INDEX

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SYMBOL LIST AND GENERAL NOTES - MECHANICAL

Scale **12" = 1'-0"**
Drawn Author
Checked GKW

M0.01

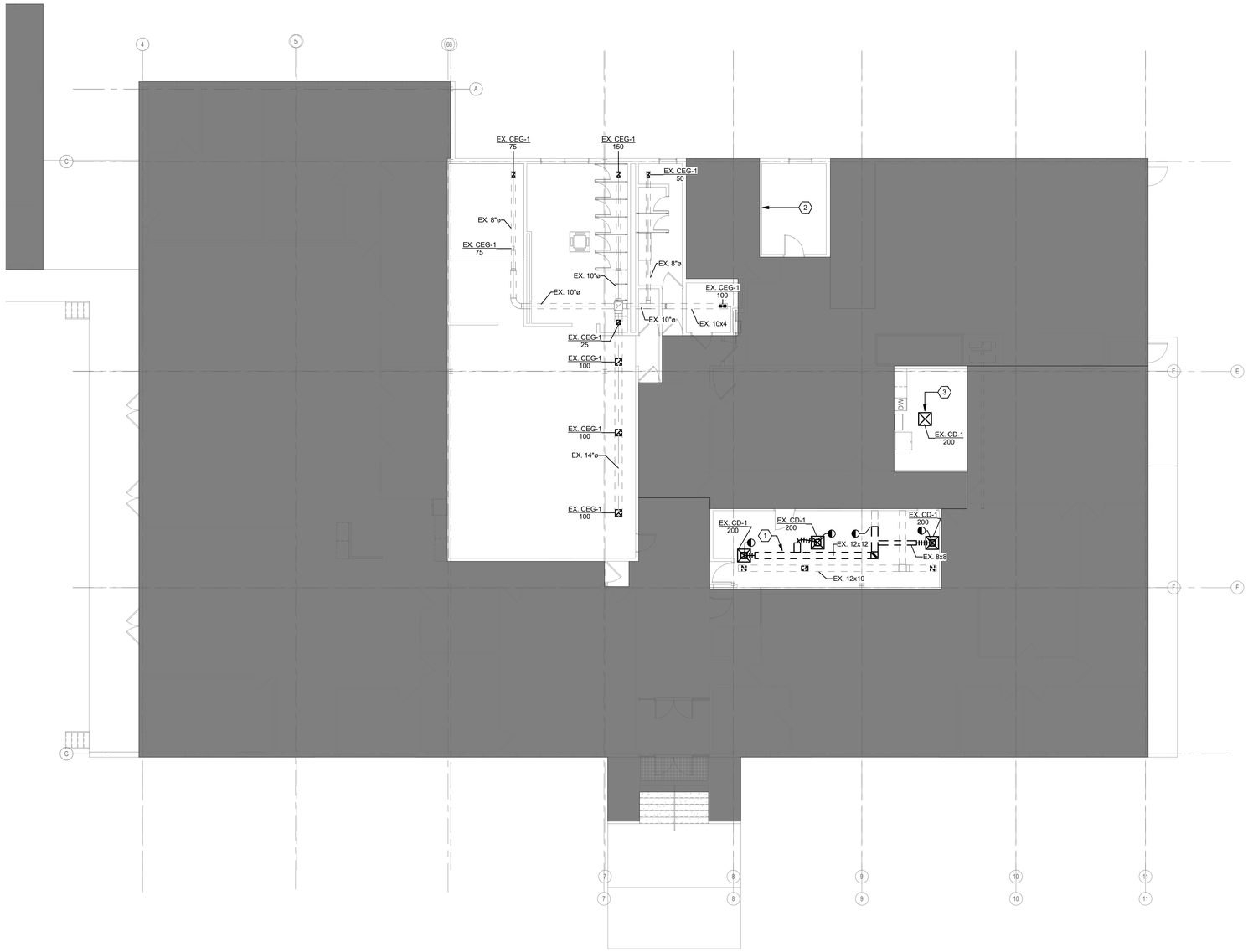
BID SET

SHEET KEYNOTES

1 EXITING DUCTS TO BE DEMO'D AS SHOWN ON PLAN.

2 EXISTING EXHASUT DUCT WORK FOR ICE MACHINE TO BE DEMO'D. ROOF TO CAPPED AND REPAIR PER ARCHIECTURAL DRAWINGS. NO NEW WORK IN THIS AREA.

3 EXITING DIFFUSER TO BE DEMO'D AS SHOWN ON PLAN.



1 LEVEL 1 DEMO MECHANICAL DUCTWORK PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

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DEMOLITION FLOOR PLAN - MECHANICAL

Scale **1/8" = 1'-0"**
Drawn Author
Checked Checker

MD1.01

BID SET

GENERAL SHEET NOTES

1 PIPING LAYOUT AND ROUTING IS DIAGRAMATIC AND PROVIDED TO SHOW DESIGN INTENT. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD CERTIFICATION OF REFRIGERANT AND CONDENSATE PIPE SIZES, LENGTHS, ROUTING, AND UNIT LAYOUT CONFIGURATIONS/COUNTS WITH JOB SITE AND MANUFACTURERE REQUIREMENTS.

2 UNIT CONDENSATE DRAIN SIZE TO MATCH DRAIN CONNECTION SIZE OF UNIT INSTALLED.

SHEET KEYNOTES

1 NO MECHANICAL WORK REQUIRED IN THIS AREA.

2 FINAL LOCATIONS TO BE COORINDATED WITH ARCHITECT.

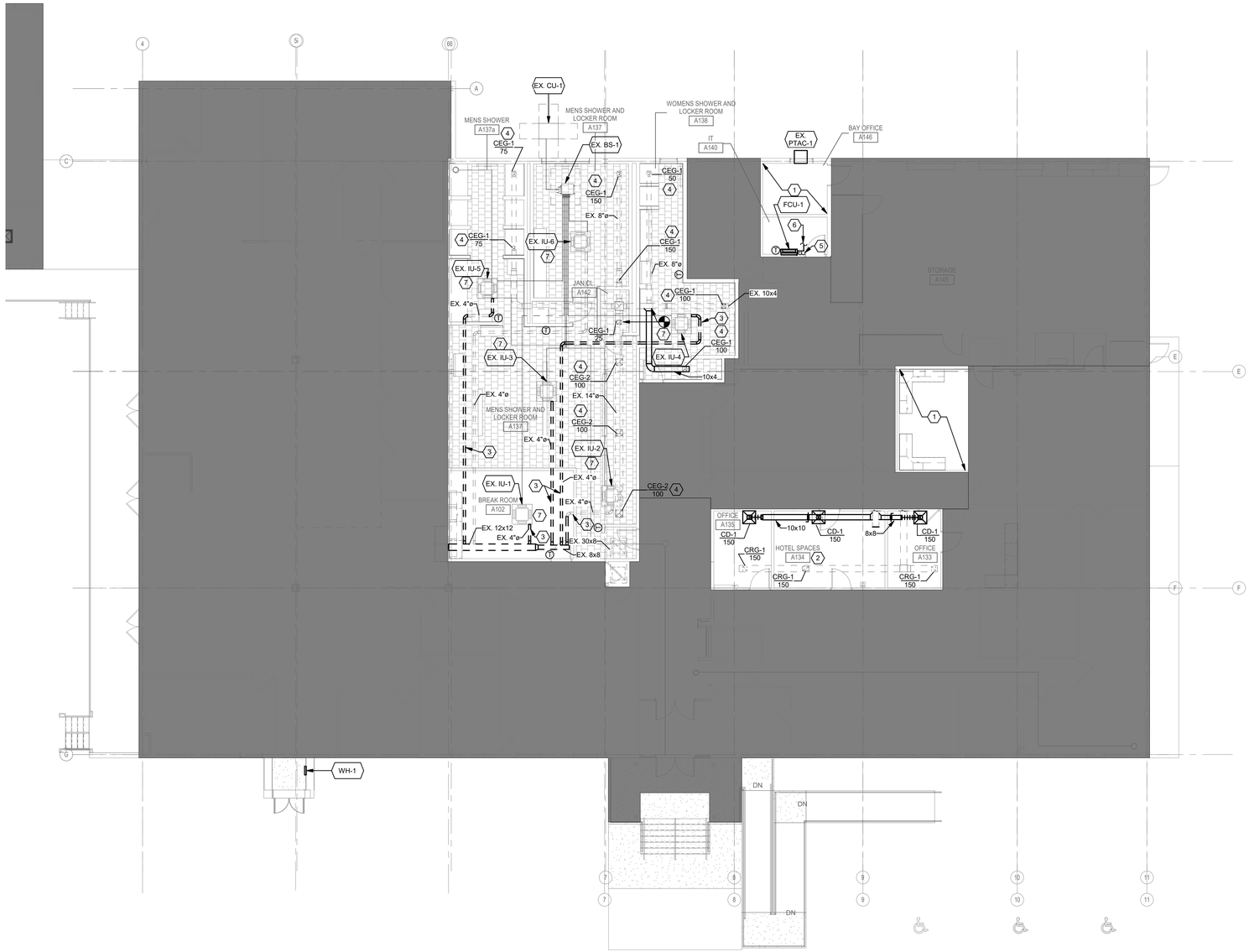
3 EXISTING OUTSIDE AIR DUCT CONNECTED TO MAIN OUTSIDE AIR DUCT FOR ENTIRE BUILDING THAT IS SERVED BY INTAKE LOCATED ON ROOF.

4 CONTRACTOR TO REBALANCE ALL NEW EXHAUST DIFFUSERS AS SHOWN ON PLAN. CONRACTOR TO CONTACT ARCHITECT & ENGINEER FOR ANY EXISITNG CONDITION DESIGN DISCREPANCIES.

5 APPROXIMATE LOCATION OF REFRIGERANT PIPING UP TO CONDENSING UNITS ON ROOF.

6 ROUTE CONDENSATE PIPING TO NEAR BY FLOOR DRAIN.

7 EXISTING EQUIPMENT TO BE PROTECTED DURING DEMOLITION OF CEILING AND WALLS.



1 LEVEL 1 MECHANICAL DUCTWORK PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

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Construction Documents for:

SOLID WASTE + TE&O

4300 S. 29TH STR. ARLINGTON, VA, 22206

Project: 21124-01

Issued	01/07/22
BID SET	

Revisions

1	Permit Revisions	02/11/22
2	Bid Set	08/8/22

LEVEL 1 FLOOR PLAN - MECHANICAL

Scale **1/8" = 1'-0"**
Drawn Author
Checked Checker

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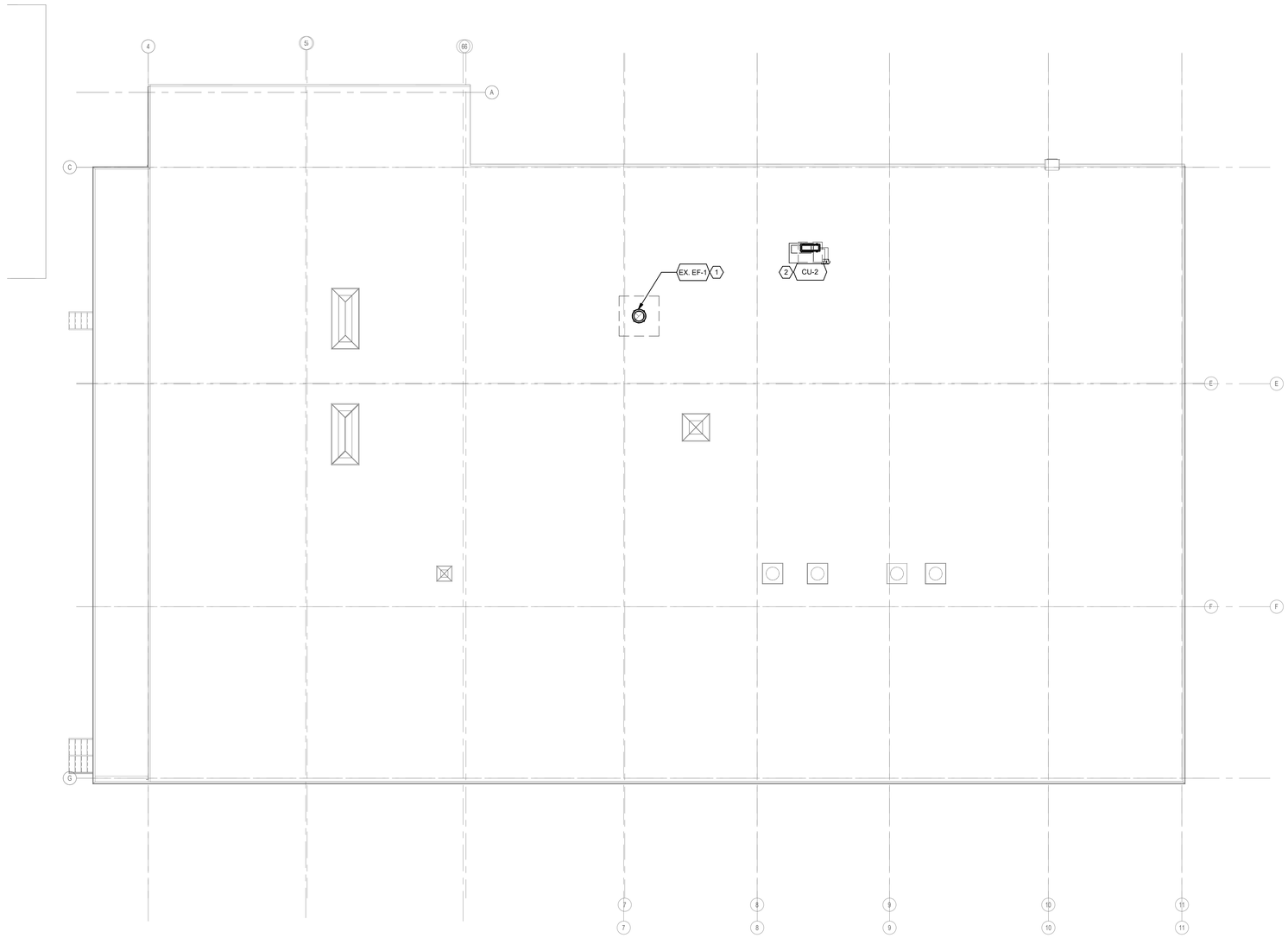
SHEET KEYNOTES

1 CONTRACTOR TO REBALANCE EXISTING EXHAUST FAN TO PROVIDE 1025 CFM.

2 APPROXIMATE LOCATION OF REFRIGERANT PIPING DOWN TO SPLIT SYSTEM.



1 ROOF MECHANICAL DUCTWORK PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

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ROOF PLAN - MECHANICAL

Scale **1/8" = 1'-0"**
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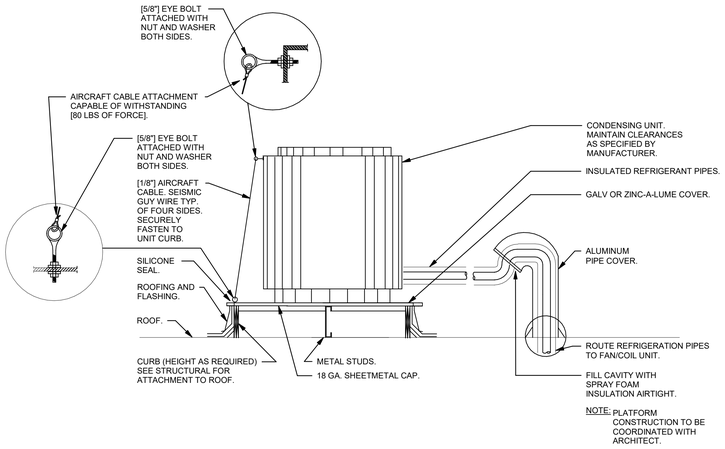
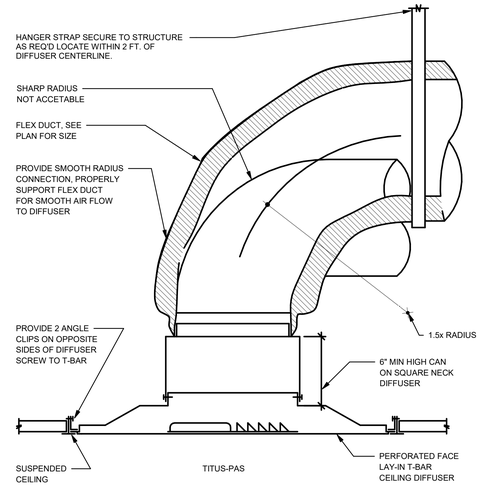
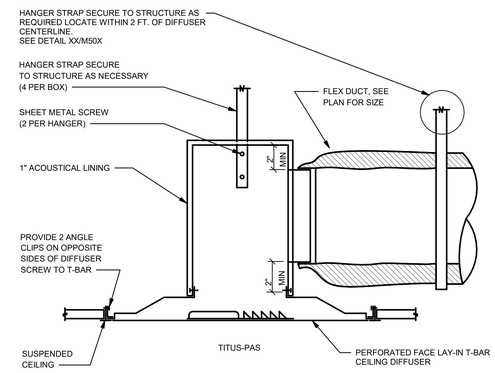
BID SET



5 ROOFTOP CONDENSING UNIT CURB

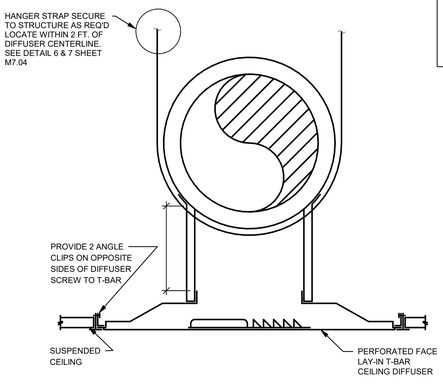
0' 4' 8' 16'
NO SCALE





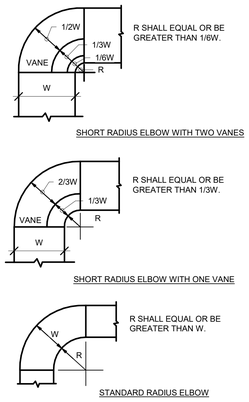
NOTES:

1. PROVIDE AT LEAST 3' FEET OF ACOUSTICAL FLEX BEFORE CONNECTION TO HARD DUCT 5'-0".
2. DETAIL "B" TO BE USED IN LOCATIONS WHERE THERE IS NOT ADEQUATE SPACE TO ACHIEVE INSTALLATION PER BETAIL "A".



1 CEILING DIFFUSER CONNECTION FOR SUPPLY, RETURN, EXHAUST DIFFUSERS/REGISTERS/GRILLES

0' 4' 8' 16'
12" = 1'-0"

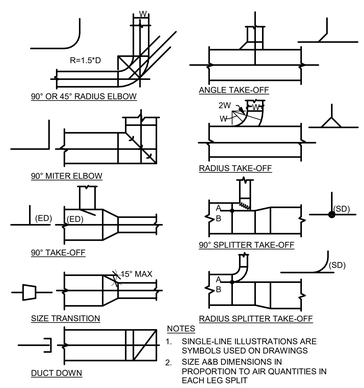


NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

6 DUCTWORK RADIUS ELBOWS

0' 4' 8' 16'
12" = 1'-0"

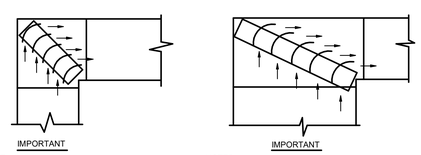


NOTES

1. SINGLE-LINE ILLUSTRATIONS ARE SYMBOLS USED ON DRAWINGS
2. SIZE A&B DIMENSIONS IN PROPORTION TO AIR QUANTITIES IN EACH LEG SPLIT

3 RECTANGULAR DUCT DETAIL

0' 4' 8' 16'
NO SCALE

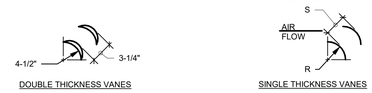


NOTE:

PROPER INSTALLATION OF TURNING VANES FOR RECTANGULAR ELBOW WITHOUT SIZE CHANGE. CAN USE EITHER DOUBLE OR SINGLE THICKNESS TURNING VANES IN THIS APPLICATION.

NOTES:

1. PROPER INSTALLATION OF TURNING VANES WHEN RECTANGULAR MITERED ELBOW CHANGES SIZE FROM INLET TO OUTLET. DO NOT USE DOUBLE THICKNESS TURNING VANES IN THIS APPLICATION.
2. VANES DO NOT HAVE "TRAILING EDGES," BUT SHALL BE MOVED IN THE VANE RUNNER TO REMAIN TANGENT TO THE AIRSTREAM.



DIMENSIONS, INCHES	
R	S
2.0	1.5
4.5	3.25

NOTES:

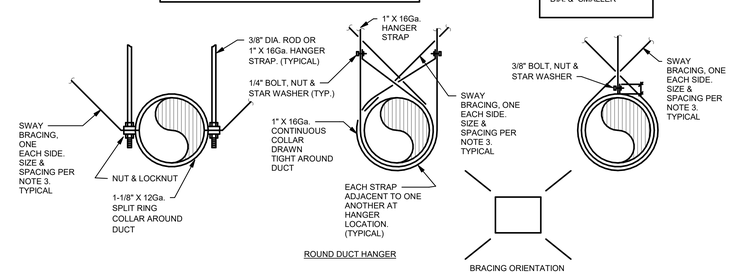
1. THESE DETAILS INDICATE ALLOWED TURNING VANES CONSTRUCTION AND INSTALLATION FOR ALL MITERED ELBOWS.
2. ALL VANES MUST BE INSTALLED. ELIMINATING EVERY OTHER VANE IS NOT ALLOWED.
3. SINGLE THICKNESS VANES CANNOT BE OVER 36" LONG WITHOUT INTERMEDIATE VANE RUNNER.
4. ALL VANES SHALL BE INSTALLED PER SMACNA AND SHALL BE FASTEN/SUPPORTED AS NECESSARY TO PREVENT VIBRATION AND TO MAINTAIN PROPER ALLIGNMENT AT THE DESIGN VELOCITY.

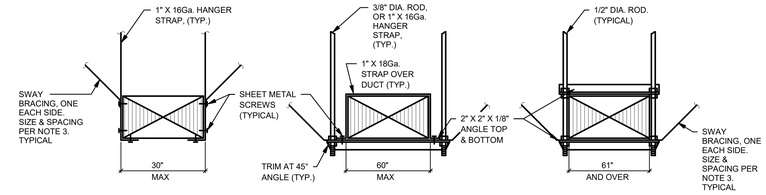
4 TURNING VANE DETAILS

0' 4' 8' 16'
12" = 1'-0"

THESE TWO HANGERS SHALL BE USED ON DUCTS 25" & LARGER (MAY BE USED ON SMALLER DUCTS).

THIS HANGER IS FOR DUCTS 24" DIA. & SMALLER





RECTANGULAR DUCT HANGER

NOTES:

1. REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2. ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
3. PROVIDE SWAY & SEISMIC BRACING PER THE LATEST EDITION OF CALIFORNIA BUILDING CODE. INDICATE LOCATIONS OF SEISMIC BRACING ON THE SHOP DRAWING SUBMITTALS.
4. HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THAN 1 1/2 INCHES WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER'S RECOMMENDED MATERIALS, BUT AT NO GREATER DISTANCE THAN 4 FEET MAX. PERMISSIBLE SAG IS MAX. 1/2 INCHES PER FOOT OF SPACING BETWEEN SUPPORTS.

2 DUCT SUPPORT DETAIL

0' 4' 8' 16'
NO SCALE

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DETAILS - MECHANICAL

Scale 12" = 1'-0"
Drawn Author
Checked Checker

M4.01

BID SET

DIFFUSER, REGISTER AND GRILLE SCHEDULE1

SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	MFR.	MODEL	NOTES
CD-1	CEILING DIFFUSER	24X24	24X24	YES	WHITE	TITUS	OMNI	1 - 9
CEG-1	CEILING DIFFUSER	8X8	8X8	YES	WHITE	TITUS	OMNI	1 - 9
CEG-2	CEILING DIFFUSER	12X12	12X12	YES	WHITE	TITUS	OMNI	1 - 9
CRG-1	TITUS	12X8	12X8	YES	WHITE	300FL	OMNI	1 - 9

NOTES:
1. COORINATE EXACT LOCATION WITH LIGHTS, SPRINKLER HEADS, AND ARCH. RCP INDICATE ON SHOP DRAWINGS.
2. COORINDATE WITH ARCHITECTURAL PLANS AND REFLECTED CEILING PLANS FOR BORDER TYPES.
3. COORDINATE WITH WALL ELEVATIONS.
4. PROVIDE REMOTE CONTROLS RODS FOR VOLUME DAMPER WHEN INSTALLED ABOVE INACCESSIBLE CEILING.
5. PROVIDE GRILLE / DIFFUSER WITH MAXIMUM TOTAL PRESSURE DROP OF 0.1" W.G.
6. PROVIDE GRILLE / DIFFUSER WITH MAXIMUM SOUND PWER LEVEL NC 30.
7. SIZE OF DUCT TAKEOFF, BRANCH DUCT, AND FLEX DUCT TO MATCH THE NECK SIZE OF THE ASSOCIATED DIFFUSER/GRILLE UNLESS OTHERISE NOTED.
8. CFM SHOWN ON PLAN.
9. PROVIDE ALL SUPPLY AND RETURN/EXHAUST GRILLES AND DIFFUSERS WITH A BALANCE DAMPER AT BRANCH TAKE OFF UNLESS OTHERWISE NOTED.

ELECTRIC HEATER SCHEDULE - PHASE 2

		BASIS OF DESIGN			ELECTRICAL					
SYMBOL	AREA SERVED	MFR	MODEL	TYPE	VOLTS	PH	HEAT KW	MOTOR HP	MAX WT (LBS)	NOTES
WH-1	EXTERIOR DOOR/STAIRS	MARKEL	3450	FAN TYPE	208	3	5	13.9 (AMPS)	55	1, 2

NOTES:
1. PROVIDE WITH INTEGRAL DISCONNECT.
2. PROVIDE TAMPERPROOF, INTEGRAL THERMOSTAT SET TO 65°F (ADJUSTABLE)

FAN COIL SCHEDULE (COOLING ONLY)

			BASIS OF DESIGN				COOLING				ELECTRICAL						
									ENT. AIR								
SYMBOL	LOCATION	AREA SERVING	MFR	MODEL	ASSOCIATED CU	NOMINAL TONS	AIR FLOW (CFM)	TOTAL (MBH)	SENS (MBH)	(°F DB)	(°F WB)	VOLTS	PH	MCA	FLA	EMERGENCY POWER	MAX WT. (LBS)	COMMENTS
FCU-1	A140 - IT	A140 - IT	MITSUBISHI ELECTRIC	MSYGL12NA	CU-2	1	280	12.0	10.0	80	67	208	1	0.4	15.0	NO	29	1-6

NOTES:
1. PROVIDE CONDENSATE PUMP, DRAIN PAN, FLOAT, AND ALARM. IF INTEGRAL PUMP CANNOT PROVIDE ADEQUATE LIFT, PROVIDE PUMP THAT WILL MEET REQUIREMENTS.
2. PROVIDE REMOTE-MOUNTED PROGRAMMABLE THERMOSTAT FOR EACH FAN COIL UNIT.
3. FUSED DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR
4. IN COMBINATION WITH ASSOCIATED CONDENSING UNIT, PROVIDE MANUFACTURER CONTROL DEVICES REQUIRED FOR FULLY OPERATING SYSTEM.
5. UNIT TO OPERATE ON MEDIUM FAN SPEED SETTING.
6. UNIT TO BE EQUIPED WITH SETBACK CONTROLS USING AUTOMATIC TIMECLOCK OR PROGRAMMABLE SYSTEM.

CONDENSING UNIT SCHEDULE

			BASIS OF DESIGN		AIR SOURCE HEAT PUMP CONDENSER			ELECTRICAL							
						COOLING									
	LOCATION	AREA SERVED	MFR	MODEL	NOM TONS	CAP (MBH)	SEER	VOLTS	PH	MCA	MOCP	MIN. SCCR (KAIC)	EMERGENCY POWER	MAX WT (LBS)	COMMENTS
CU-2	ROOF	A140 - IT	MITSUBISHI	MUY-1C12N	1	12.0	26.1	208	1	7.0	15	5	NO	77	1-5

NOTES:
1. FUSED DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
2. SYSTEMS USE REFRIGERANT TYPE R-410A.
3. SYSTEM MUST PROVIDE CONTINUOUS HEATNG DURING DEFROST AND OIL RETURN CYCLES.
4. IN COMBINATION WITH ASSOCIATED FAN COIL UNITS, PROVIDE MANUFACTURER CONTROL DEVICES REQUIRED FOR FULLY OPERATING SYSTEM.
5. CONTROL SYSTEM SHALL ALSO BE CAPABLE OF SUPPORTING INTEGRATION WITH THE BUILDING MANAGEMENT SYSTEM.

EXISTING FAN COIL SCHEDULE

			BASIS OF DESIGN			COOLING	HEATING	ELECTRICAL				
SYMBOL	LOCATION	SERVING	MFR	MODEL	AIR FLOW (CFM)	TOTAL CAP (MBH)	MIN CAP (MBH)	VOLTS	PH	MCA	EMERGENCY POWER	MAX WT (LBS)
EX. IU-1	A102-KITCHEN	A102-KITCHEN	MITSUBISHI	TPLFYP08	280	8.0	9.0	208	1	15.0	NO	31
EX. IU-2	A137 - MENS SHOWER AND LOCKER ROOM	A137 - MENS SHOWER AND LOCKER ROOM	MITSUBISHI	TPLFYP08	280	8.0	9.0	208	1	15.0	NO	31
EX. IU-3	A137a - MENS SHOWER	A137a - MENS SHOWER	MITSUBISHI	TPLFYP18	280	18.0	20.0	208	1	15.0	NO	31
EX. IU-4	A138 - WOMENS SHOWER AND LOCKER ROOM	A138 - WOMENS SHOWER AND LOCKER ROOM	MITSUBISHI	TPLFYP18	280	18.0	20.0	208	1	15.0	NO	31
EX. IU-5	A137 - MENS SHOWER AND LOCKER ROOM	A137 - MENS SHOWER AND LOCKER ROOM	MITSUBISHI	TPLFYP08	280	8.0	9.0	208	1	15.0	NO	31
EX. IU-6	A137 - MENS SHOWER AND LOCKER ROOM	A137 - MENS SHOWER AND LOCKER ROOM	MITSUBISHI	TPLFYP08	315	8.0	9.0	208	1	15.0	NO	31

EXISTING VRF OUTDOOR CONDENSING UNIT SCHEDULE

			BASIS OF DESIGN		NOM TONS	COOLING		HEATING		ELECTRICAL				
SYMBOL	LOCATION	AREA SERVED	MFR	MODEL		CAP (MBH)	EER	CAP (MBH)	COP	VOLTS	PH	MCA	MOCP	MAX WT (LBS)
EX. CU-1	EXTERIOR	LOCKER & RESTROOMS	MITSUBISHI	TURYP	6	72.0	13.1	80.0	3.76	208	1	24.0	40	519

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SCHEDULES - MECHANICAL

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BID SET

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
ADA	AMERICANS WITH DISABILITIES ACT
&	AND
@	AT
BFP	BACKFLOW PREVENTER
BV	BALANCING VALVE
BTU	BRITISH THERMAL UNIT
BLDG	BUILDING
CP	CIRCULATION PUMP
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DN	DOWN
DFU	DRAINAGE FIXTURE UNIT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EL	ELEVATION
EEW	EMERGENCY EYE WASH
(E)	EXISTING
FT	FEET
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FV	FLUSH VALVE
'	FOOT, FEET
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GD	GARBAGE DISPOSER, GARAGE DRAIN
GWH	GAS WATER HEATER
GW	GREASE WASTE
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
L	LAVATORY
MAX	MAXIMUM
MS	MOP SINK
(N)	NEW
#	NUMBER
(R)	RELOCATE / RELOCATED LOCATION
SAN	SANITARY
SA	SHOCK ARRESTOR
SH	SHOWER
S, SK	SINK
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
VTR	VENT THRU ROOF
V	VENT, VOLT
W	WASTE
WH	WATER HEATER, WALL HYDRANT

General

- CONTINUATION
- DETAIL NUMBER AND SHEET LOCATION
- EQUIPMENT IDENTIFICATION (LOCATION)
- EXTENT OF DEMOLITION
- FIXTURE TAG (LEVEL BELOW FIXTURE)
- FOOD SERVICE EQUIPMENT / CALCULATION TAG
- KEYED NOTE
- PIPE BELOW GRADE
- POINT OF CONNECTION
- SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- DEMOLISH (DASH-DOT)
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE

Piping Fittings

- ACCESS PANEL
- ANCHOR
- AQUASTAT
- AREA DRAIN
- AUTOMATIC AIR VENT
- BASKET STRAINER / BAG FILTER
- BLIND FLANGE
- CAP
- CATCH BASIN
- CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- FLOOR CLEANOUT
- FLOOR DRAIN
- FLOOR SINK
- FLOW DIRECTION
- FLOW METER
- FLOW SWITCH
- HOSE BIBB / WALL HYDRANT
- HUB DRAIN
- MANUAL AIR VENT
- METER
- OVERFLOW ROOF DRAIN
- PEX MANIFOLD
- PIPE DROP
- PIPE GUIDE
- PIPE RISE
- PRESSURE GAUGE WITH COCK
- PRESSURE RELIEF
- PRESSURE SENSOR
- PUMP
- ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT
- THERMOMETER
- TRAP PRIMER MANIFOLD
- TRENCH DRAIN
- UNION
- VACUUM RELIEF
- VENT THROUGH ROOF
- WALL CLEANOUT

Piping Systems

120°HW	120%%d HOT WATER PIPING
120°HWR	120%%d HOT WATER RETURN PIPING
140°HW	140%%d HOT WATER PIPING
140°HWR	140%%d HOT WATER RETURN PIPING
160°HW	160%%d HOT WATER PIPING
160°HWR	160%%d HOT WATER RETURN PIPING
ACL	ACETYLENE PIPING
AV	ACID RESISTANT VENT PIPING
AW	ACID RESISTANT WASTE ABOVE GRADE
AW	ACID RESISTANT WASTE BELOW GRADE
	COLD WATER PIPING
CA	COMPRESSED AIR PIPING
D	CONDENSATE / INDIRECT DRAIN PIPING
DIR	DE-IONIZED WATER RETURN
DIS	DE-IONIZED WATER SUPPLY
DI	DISTILLED WATER
FW	FILTERED WATER
F	FIRE PROTECTION PIPING
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
GV	GAS VENT PIPING
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
GW	GREASE WASTE ABOVE GRADE OR FINISHED FLOOR
GW	GREASE WASTE BELOW GRADE OR FINISHED FLOOR
GSW	GREY SANITARY WASTE
RW	HARVESTED RAIN WATER
	HOT WATER PIPING
	HOT WATER RETURN PIPING
IR	IRRIGATION
LP	LIQUID PROPANE
2#G	NATURAL GAS PIPING, 2 LB
5#G	NATURAL GAS PIPING, 5 LB
G	NATURAL GAS PIPING, 7" WC PRESSURE
NP	NON-POTABLE COLD WATER PIPING
NP	NON-POTABLE HOT WATER PIPING
NP	NON-POTABLE HOT WATER RETURN PIPING
OD	OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
2#P	PROPANE, 2 LB
5#P	PROPANE, 5 LB
P	PROPANE, STANDARD PRESSURE
PD	PUMPED DISCHARGE
RCW	RECLAIMED WATER
R/O	REVERSE OSMOSIS WATER
	SANITARY VENT PIPING
	SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
	SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
SHW	SOLAR HOT WATER
SHWR	SOLAR HOT WATER RETURN
SD	STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
SD	STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
TW	TEMPERED WATER PIPING
TP	TRAP PRIMER PIPING

Valves

- BFP — BACKFLOW PREVENTER
- BACKWATER VALVE
- X GPM — BALANCING VALVE
- CHECK VALVE
- EARTHQUAKE GAS VALVE
- ELECTRONIC SOLENOID VALVE
- GLOBE VALVE
- HOSE END DRAIN VALVE
- MOTORIZED, 2-WAY VALVE
- MOTORIZED, 3-WAY VALVE
- NATURAL GAS PIPING CONNECTION ASSEMBLY
- PRESSURE REDUCING VALVE
- SHUTOFF VALVE, GENERAL

GENERAL PLUMBING NOTES

A. ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT STATE, COUNTY AND NATIONAL CODES AND STANDARDS ADOPTED BY THE LOCAL JURISDICTIONS INCLUDING APPLICABLE AMENDMENTS.

B. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE AND SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

C. COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT AND THE LIKE BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.

D. COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

E. VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

F. ALL WASTE PIPE TO SLOPE MINIMUM OF 1/8" PER FOOT.

G. PROVIDE WATER HAMMER ARRESTERS TO DOMESTIC WATER LINES SERVING QUICK ACTING VALVES SUCH AS THE FOLLOWING:
1. FLUSH VALVES.
2. SOLENOID VALVES TO ICEMAKERS AND DISHWASHER.

H. PROVIDE TRAP SEAL PROTECTION ON ALL TRAPS SUBJECT TO LOSS BY EVAPORATION.

I. PERMANENT VACUUM BREAKERS SHALL BE INCLUDED IN ALL HOSE BIBS.

J. PROVIDE CLEANOUTS AS REQUIRED TO MEET CODE.

K. PROVIDE DRAIN PAN FOR ALL INSTALLED WATER HEATERS.

L. PROVIDE ASSE 1070 TEMPERING VALVES FOR ALL LAVATORIES AND HAND SINKS AS REQUIRED BY CODE.

M. ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.

N. DRAINAGE PIPING SERVING FIXTURES THAT ARE LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE SHALL BE PROVIDED WITH A BACKWATER VALVE. FIXTURES ABOVE THAT LEVEL SHALL NOT DISCHARGE THROUGH THIS VALVE.

O. SEWER VENTS SHALL TERMINATE AT LEAST 10 FEET HORIZONTALLY FROM AND AT LEAST 3 FEET ABOVE OPENABLE WINDOW, DOOR OPENING, AIR INTAKE OR VENT SHAFT. VENT MUST BE AT LEAST 3 FEET FROM PROPERTY LINE.

P. PRIOR TO BEING CONCEALED, PIPING PENETRATIONS AT THE FIRE RESISTIVE ASSEMBLIES SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE FIRE RESISTANCE RATING.

Q. INDIRECT WASTE SHALL DISCHARGE TO THE BUILDING DRAINAGE THROUGH AN APPROVED AIR GAP OR AIR BREAK WITH A MINIMUM 1" DISTANCE FROM THE LOWEST POINT OF INDIRECT PIPE TO THE FLOOD LEVEL RIM OF THE RECEPTOR.

SHEET INDEX

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Construction Documents for:

SOLID WASTE + TE&O

4300 S. 29TH STR. ARLINGTON, VA, 22206

Project: 21124-01

Issued 01/07/22

BID SET

Revisions

1	Permit Revisions	02/11/22
2	Bid Set	08/8/22

SYMBOL LIST AND GENERAL NOTES - PLUMBING

Scale
Drawn DEK
Checked JN

P0.01

BID SET

1 LEVEL 1 DEMO PLUMBING PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

SHEET KEYNOTES

1. EXISTING MEN AND WOMEN'S BATHROOM/SHOWER ROOMS. REMOVE ALL EXISTING FIXTURES. REMOVE ALL EXISTING ROUGH-IN PIPING ASSOCIATED WITH FIXTURES. CONTRACTOR TO FIELD VERIFY ALL EXISTING SANITARY LOCATIONS BELOW SLAB.
2. EXISTING COMMON BATHROOM/SHOWER. REMOVE ALL EXISTING FIXTURES. REMOVE ALL EXISTING ROUGH-IN PIPING ASSOCIATED WITH FIXTURES. CONTRACTOR TO FIELD VERIFY ALL EXISTING SANITARY LOCATIONS BELOW SLAB.
3. EXISTING SINK TO REMAIN. EXISTING SAN AND VENT ROUGH-IN PIPING ASSOCIATED WITH SINK ARE TO REMAIN. EXISTING CW AND HW PIPING ASSOCIATED WITH SINK ARE TO BE DEMOLISHED TO MAIN. ICE MAKER TO BE RELOCATED TO KITCHEN A129. REFER TO NEW WORK PLAN P1.01 FOR NEW LOCATION OF (E) ICE MAKER.
4. EXISTING SINK, DISHWASHER AND REFRIGERATOR TO BE DEMOLISHED. DEMOLISH ASSOCIATED WATER PIPING AND PROVIDE NEW CONNECTIONS. EXISTING SANITARY AND VENT ROUGH-IN PIPING TO BE REUSED FOR NEW SINK. DEMOLISH SANITARY CONNECTION TO FIXTURE AND STOP BEYOND P-TRAP.
5. EXISTING DRINKING FOUNTAIN TO BE DEMOLISHED. DEMOLISH ASSOCIATED WATER PIPING AND PROVIDE NEW CONNECTIONS. EXISTING SANITARY AND VENT ROUGH-IN PIPING TO BE REUSED FOR NEW ELECTRIC BI-LEVEL WATER COOLER. DEMOLISH SANITARY CONNECTION TO FIXTURE AND STOP BEYOND P-TRAP.
6. EXISTING EXTERIOR HOSE BIBB TO BE DEMOLISHED AND REPLACED. REFER TO NEW WORK PLAN P1.01 FOR NEW WALL HYDRANT.
7. EXISTING EYE WASH STATION TO BE RELOCATED. EXISTING WATER PIPE DROPS ASSOCIATED WITH FIXTURE TO BE DEMOLISHED AND NEW CONNECTIONS SHALL BE PROVIDED. SEE NEW WORK PLANS P1.01 FOR NEW LOCATION.
8. EXISTING SINK, DISHWASHER AND REFRIGERATOR TO BE DEMOLISHED. DEMOLISH ASSOCIATED WATER ROUGH-IN PIPING AND PROVIDE NEW CONNECTIONS. EXISTING VENT PIPING TO BE UTILIZED FOR NEW SINK. DEMOLITION OF SANITARY CONNECTION SHALL STOP BEYOND P-TRAP.
9. REMOVE ALL EXISTING FIXTURES IN MEN'S BATHROOM. REMOVE ALL EXISTING ROUGH-IN PIPING ASSOCIATED WITH EXISTING WASH BASIN. DEMOLISH EXISTING ROUGH-IN COLD WATER AND HOT WATER CONNECTIONS TO (E) LAVATORIES TO MAIN PIPE DROP AND ALLOW FOR NEW CONNECTIONS TO NEW LAVATORIES. DEMOLISH EXISTING ROUGH-IN COLD WATER CONNECTIONS TO (E) WATER CLOSETS AND (E) URINALS TO MAIN PIPE DROP AND ALLOW FOR NEW CONNECTIONS TO NEW WATER CLOSETS AND URINALS. DEMOLISH EXISTING SANITARY CONNECTIONS TO LAVATORIES AND STOP BEYOND P-TRAP. EXISTING SANITARY AND VENT ROUGH-IN CONNECTIONS FOR WATER CLOSETS AND URINALS TO BE DEMOLISHED TO MAIN RISERS AND ALLOW FOR NEW CONNECTIONS TO NEW FIXTURES. CONTRACTOR TO FIELD VERIFY ALL EXISTING SANITARY LOCATIONS BELOW SLAB.
10. DEMOLISH AND REMOVE EXISTING WATER HEATER AND REUSE ALL ASSOCIATED PIPING TO THE FULLEST EXTENT.
11. EXISTING DRINKING FOUNTAIN TO BE DEMOLISHED. DEMOLISH ALL ASSOCIATED PIPING TO MAIN AND CAP.
12. EXISTING WATER SERVICE TO BE REMOVED FROM BELOW SLAB TO CEILNG, REFER TO NEW WORK PLAN FOR NEW SERVICE ROUTING.

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DEMOLITION FLOOR PLAN - PLUMBING

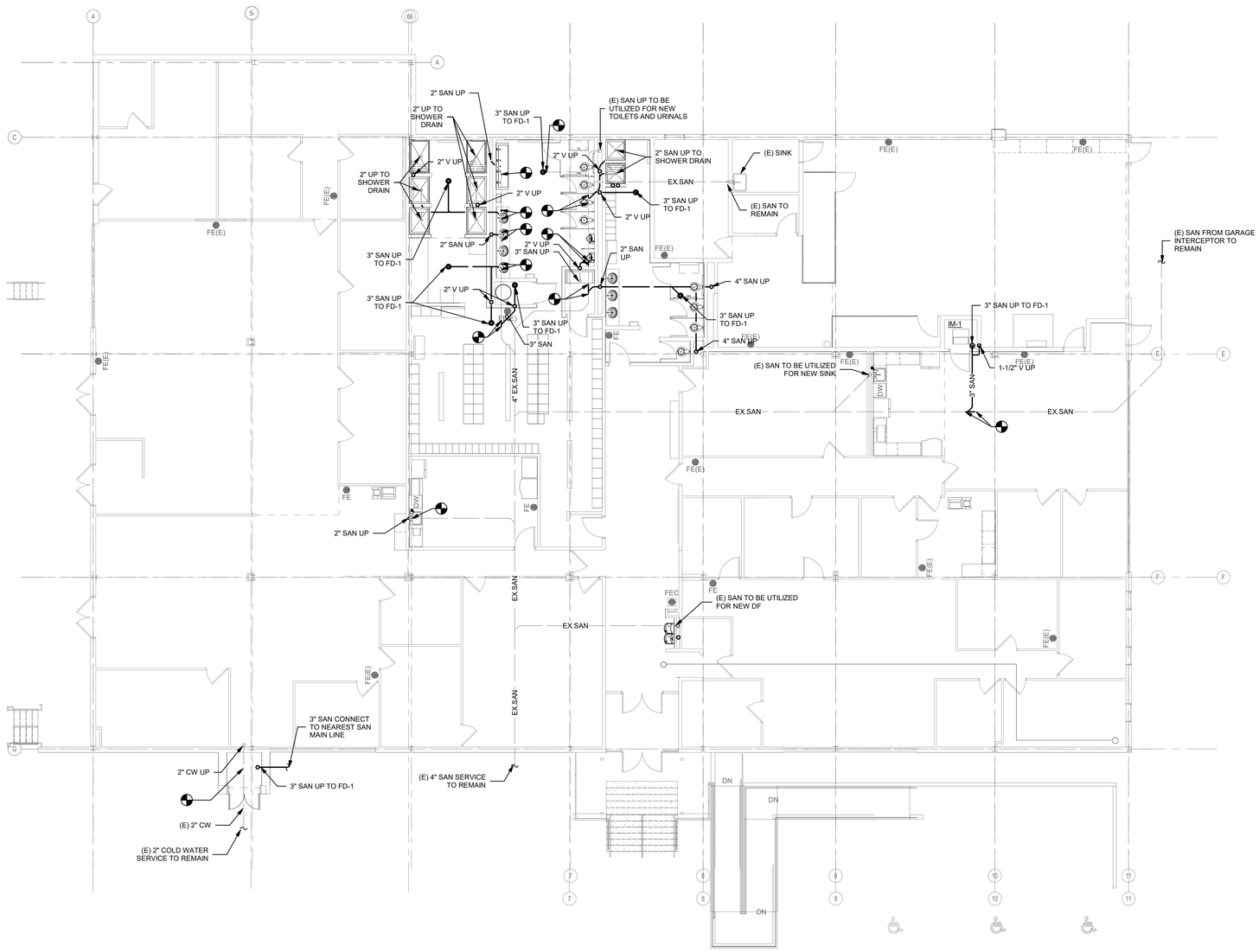
Scale **1/8" = 1'-0"**
Drawn DEK
Checked JN

PD1.01

BID SET

GENERAL SHEET NOTES

1 ALL EXISTING PIPING THAT ARE TO BE REUSED SHALL BE FIELD VERIFIED BY CONTRACTOR FOR EXACT LOCATION.



1 UNDERGROUND PLUMBING PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

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UNDERGROUND PLAN - PLUMBING

Scale **1/8" = 1'-0"**
Drawn DEK
Checked JN

P1.00

BID SET

GENERAL SHEET NOTES

1 ALL EXISTING PIPING THAT ARE TO BE REUSED SHALL BE FIELD VERIFIED BY CONTRACTOR FOR EXACT LOCATION.

2 PROVIDE 2 WATT/ LINEAR FOOT ELETRIC HEAT TRACE FOR DOMESTIC WATER PIPING RUNNING IN GARAGE (UNCONDITIONED SPACE) FOR TEMPERATURE MAINTENANCE.

SHEET KEYNOTES

1 PROVIDE 2 WATT/ LINEAR FOOT ELETRIC HEAT TRACE FOR DOMESTIC WATER PIPING RUNNING IN GARAGE (UNCONDITIONED SPACE) FOR TEMPERATURE MAINTENANCE.

1 LEVEL 1 PLUMBING PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

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FLOOR PLAN - PLUMBING

Scale **1/8" = 1'-0"**
Drawn DEK
Checked JN

P1.01

BID SET

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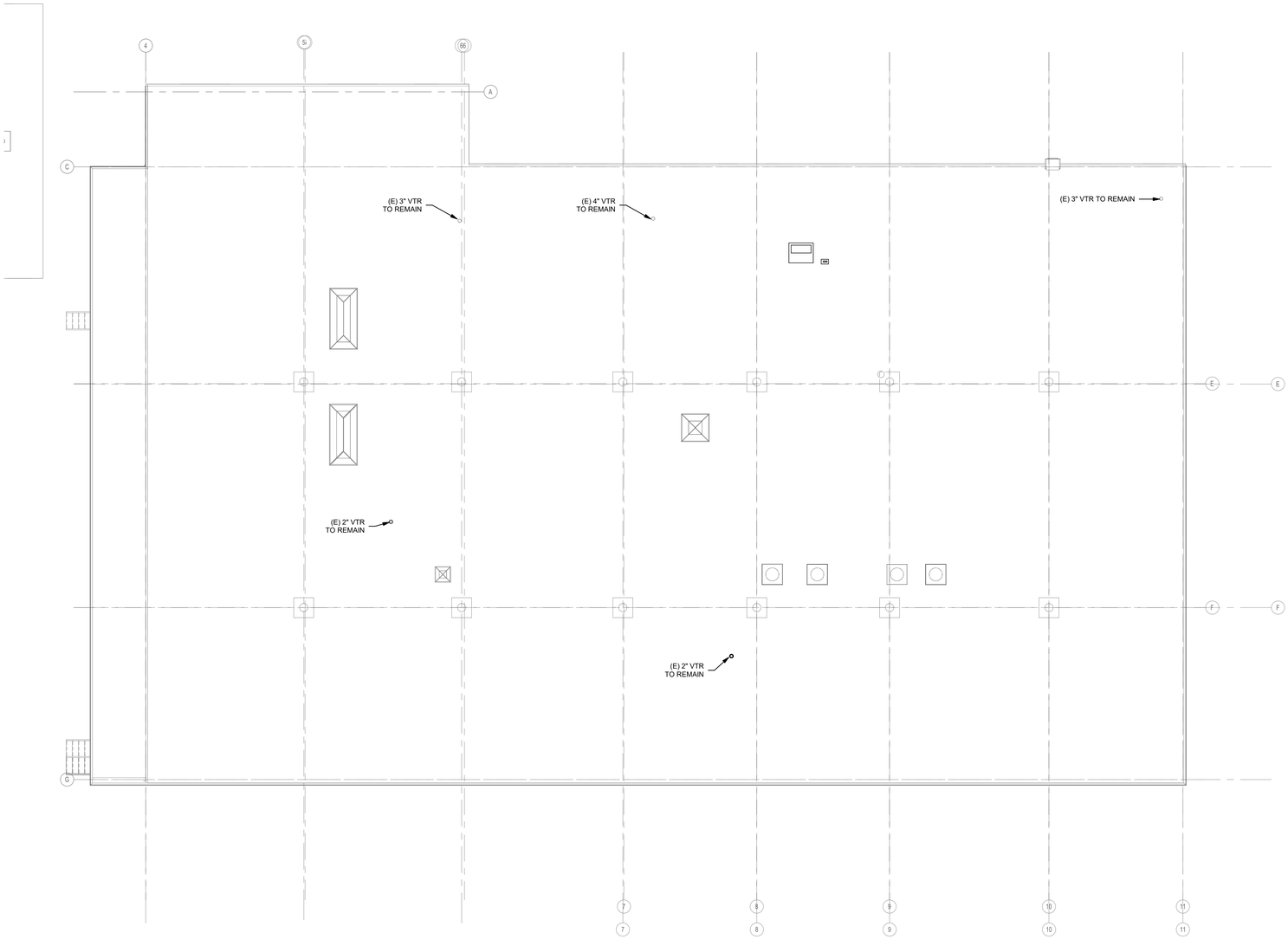

1 ROOF PLUMBING PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

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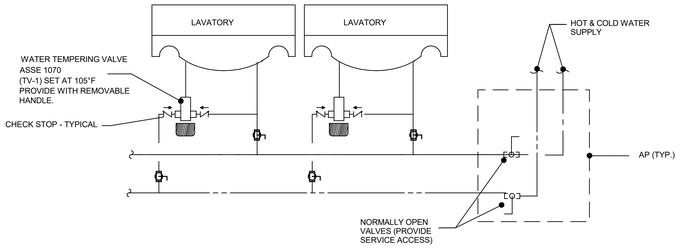
ROOF PLAN - PLUMBING

Scale **1/8" = 1'-0"**
Drawn DEK
Checked JN

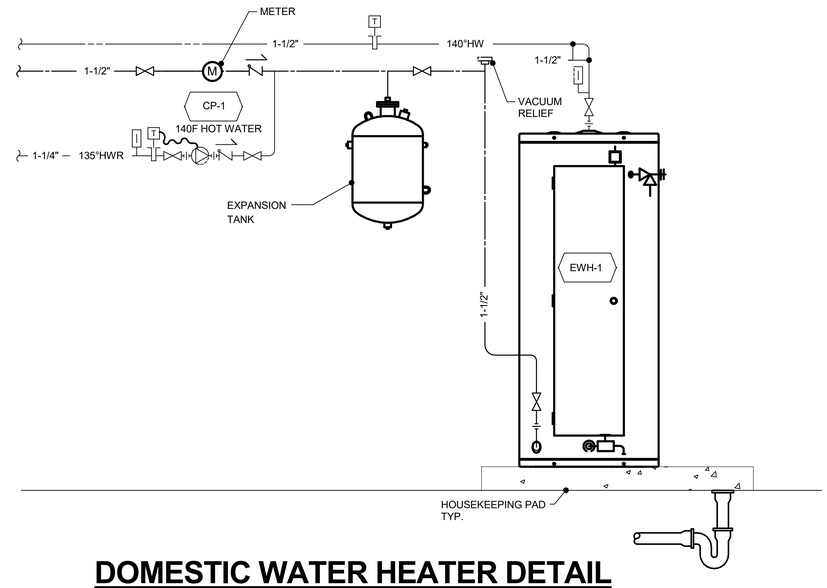
P1.10

BID SET



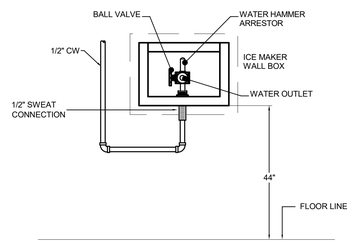
TYPICAL MIXING VALVE CONNECTION DETAIL

NO SCALE



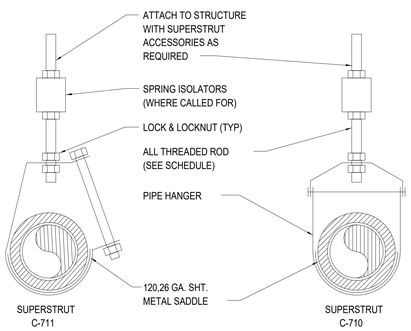
DOMESTIC WATER HEATER DETAIL

NO SCALE



ICE MAKER BOX PIPING DETAIL

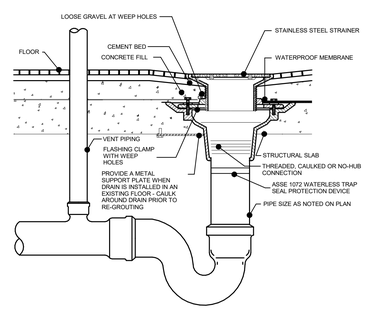
NO SCALE



PIPE SIZE (IN)	MAX SUPPORT SPAN (FT)	MIN. ROD SIZE (IN)
UP TO 1"	7	3/8"
1-1/2"	9	3/8"
2 TO 2-1/2"	10	3/8"
3"	12	1/2"
3-1/2"	13	1/2"
4	14	5/8"
5	16	5/8"
6	17	3/4"
8	19	7/8"
10	22	7/8"
12	23	7/8"

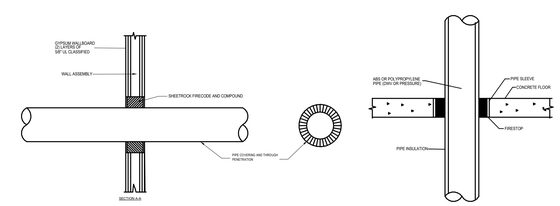
SINGLE PIPE SUPPORT

NO SCALE -



FLOOR DRAIN DETAIL

NO SCALE



F-RATING 2HR 1479 UL / T-RATING 3 / 4 HR

F-RATING 2HR 1479 UL / T-RATING 3 / 4 HR

FIRE STOPPING DETAIL

NO SCALE

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DETAILS - PLUMBING

Scale **12" = 1'-0"**
Drawn DEK
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P4.01

BID SET

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN MFR	MODEL	ACCESSORIES	CONNECTION W	V	CW	HW	NOTES
EWC-1	DRINKING FOUNTAIN (ELECTRIC WATER COOLED)	WATER COOLED, WALL MOUNTED, 18 GAUGE STAINLESS STEEL, SATIN FINISH, VANDAL RESISTANT BUBBLER, FRONT PUSH BUTTON. PROVIDE WITH WALL PLATE	ELKAY	LZSTL8WSLP		1-1/2"	1-1/2"	1/2"	--	VERIFY RIGHT OR LEFT HAND LOW BOWL CONFIGURATION
HB-1	HOSE BIBB	EXPOSED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, CHROME PLATED ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER	WOODFORD	67-P		--	--	3/4"	--	
IM-1	ICE MAKER OUTLET BOX	ABS BOX/FRAME, NO-LEAD VALVES WITH WATER HAMMER ARRESTORS	SIOUX CHIEF	696-G1010MF	ASSE 1024 BACKFLOW PREVENTER PRIOR TO APPLIANCE CONNECTION	--	--	1/2"	--	
KS-1	SINK	COUNTERTOP, SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 15-INCHES X 17-1/2-INCHES X 7-5/8-INCHES DEEP, 18-INCH MINIMUM CABINET SIZE, 3-HOLE PUNCH	ELKAY	"LUSTERTONE" #ELUHAD-211555	FAUCET: KOHLER #K-647 (1.5 GPM). DISPOSER: IN-SINK-ERATOR, EVOLUTION ESSENTIAL, 3/4 H.P. PROVIDE WITH NEW THERMOSTATIC MIXING VALVE TMV-2 POWERS MODEL LFLM495, SET AT 105°F ASSE 1070.	2"	1-1/2"	1/2"	1/2"	
L-1	LAVATORY	4 STATION WALL MOUNTED COUNTER TOP SINK	SLOAN	ELC-44000	FAUCET: SLOAN EAF-700 (0.5 GPM). SOAP DISPENSER ESD-700. PROVIDE WITH NEW THERMOSTATIC MIXING VALVE TMV-2 POWERS MODEL LFLM495, SET AT 105° F ASSE 1070.	1-1/2"	1-1/2"	1/2"	1/2"	
L-2	LAVATORY	3 STATION WALL MOUNTED COUNTER TOP SINK	SLOAN	ELC-43000	FAUCET: SLOAN EAF-700 (0.5 GPM). SOAP DISPENSER ESD-700. PROVIDE WITH NEW THERMOSTATIC MIXING VALVE TMV-2 POWERS MODEL LFLM495, SET AT 105° F ASSE 1070.	1-1/2"	1-1/2"	1/2"	1/2"	
MS-1	MOP SINK	WALL MOUNTED SERVICE FAUCET, FITTING WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE, 3 4" HOSE THREAD ON SPOUT WITH, BUCKET HOOK INLETS 8" ON CENTER CHROME FINISH	STERN WILLIAMS	SSB850	FAUCET: FIAT F830AA000	3"	2"	1/2"	1/2"	
SH-1	SHOWER	TILE SHOWER BASE AND WALLS - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION	SPEAKMAN	SM-3430	SHOWER COMBINATION FAUCET AND SHOWER HEAD 2.0 GPM. PROVIDE WITH THERMOSTATIC MIXING VALVE AND CONTROLS AND INTEGRAL STOPS.	2"	1-1/2"	1/2"	1/2"	
SH-2	ADA SHOWER	TILE SHOWER BASE AND WALLS - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION	SPEAKMAN	SM-3080-ADA	SHOWER COMBINATION FAUCET AND HAND SHOWER HEAD 2.5 GPM. PROVIDE WITH THERMOSTATIC MIXING VALVE AND CONTROLS AND INTEGRAL STOPS.	2"	1-1/2"	1/2"	1/2"	
SH-3	SHOWER	TILE SHOWER BASE AND WALLS - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION	SPEAKMAN	SM-3430	SHOWER COMBINATION FAUCET AND SHOWER HEAD 2.0 GPM. PROVIDE WITH THERMOSTATIC MIXING VALVE AND CONTROLS AND INTEGRAL STOPS.	2"	1-1/2"	1/2"	1/2"	
SH-4	ADA SHOWER	TILE SHOWER BASE AND WALLS - REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION	SPEAKMAN	SM-3080-ADA	SHOWER COMBINATION FAUCET AND HAND SHOWER HEAD 2.5 GPM. PROVIDE WITH THERMOSTATIC MIXING VALVE AND CONTROLS AND INTEGRAL STOPS.	2"	1-1/2"	1/2"	1/2"	
UR-1	URINAL	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	SLOAN	WES-1000	WALL HUNG, WATERLESS	2"	1-1/2"	3/4"	--	
UR-2	ADA URINAL	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	SLOAN	WES-1000	ADA WALL HUNG, WATERLESS	2"	1-1/2"	3/4"	--	
WB-1	WASH BASIN (MULTI-STATION SINK)	STAINLESS STEEL MULTI STATION SINK. 4 STATIONS. PROVIDE WITH 2" P-TRAP	BRADLEY	6951A-4	FAUCET: (4) KOHLER K-13463-CP (0.5 GPM). PROVIDE WITH NEW THERMOSTATIC MIXING VALVE TMV-2 POWERS MODEL LFLM495, SET AT 105° F ASSE 1070.	2"	1-1/2"	1/2"	1/2"	
WC-1	WATER CLOSET	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	AMERICAN STANDARD	AFWALL 2294.011EC	FLUSH VALVE (MANUAL, 1.28 GPF, DIAPHRAGM): AMERICAN STANDARD SELECTRONIC 606B.121. CARRIER/SUPPORT: ZURN Z1201 SERIES (HORIZONTAL) OR ZURN Z1202 SERIES (VERTICAL), NO-HUB CARRIER.	4"	2"	1"	--	
WC-2	ADA WATER CLOSET	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	AMERICAN STANDARD	AFWALL 2294.011EC	FLUSH VALVE (MANUAL, 1.28 GPF, DIAPHRAGM): AMERICAN STANDARD SELECTRONIC 606B.121. CARRIER/SUPPORT: ZURN Z1201 SERIES (HORIZONTAL) OR ZURN Z1202 SERIES (VERTICAL), NO-HUB CARRIER.	4"	2"	1"	--	

DRAIN FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN MFR	MODEL	ACCESSORIES

WATER HEATER SCHEDULE

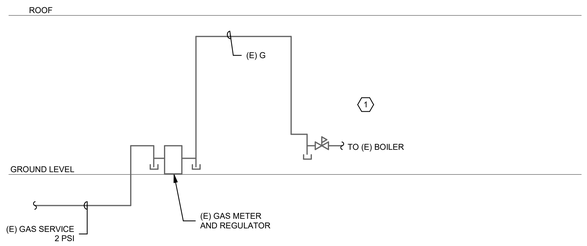
SYMBOL	EQUIPMENT TYPE	LOCATION	BASIS OF DESIGN MFR	MODEL	TANK CAPACITY (GALLONS)	RECOVERY RATE (GPH)	ELECTRICAL VOLTS	PH	AMPS	KW
EWH-1	NEW ELECTRIC WATER HEATER	MEN'S RESTROOM	RHEEM	E65A-24-GS	85	99 @ 100 RISE	208	3	67	24

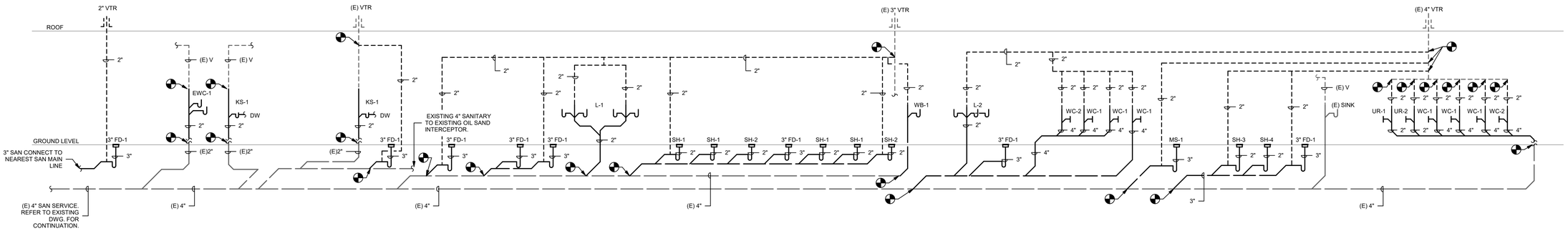
PLUMBING PUMP SCHEDULE

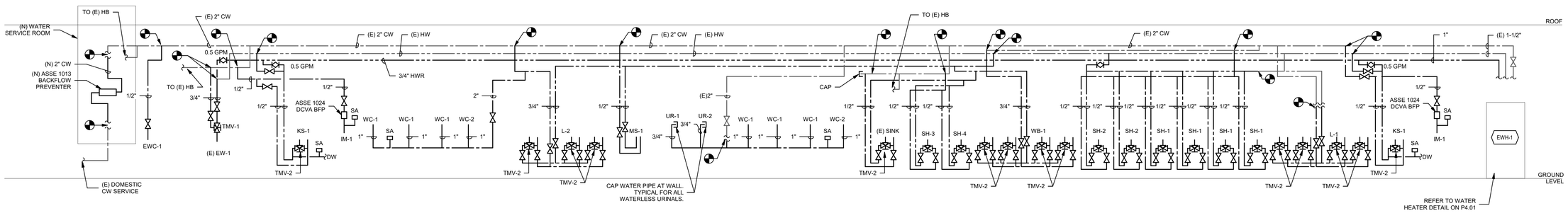
SYMBOL	EQUIPMENT TYPE	LOCATION	BASIS OF DESIGN MFR	MODEL	FLOW RATE (GPM)	HEAD (FT H2O)	RPM	ELECTRICAL VOLTS	PH	AMPS	HP
CP-1	RECIRCULATING PUMP	WATER HEATER ROOM	Taco	009-SFS	5	15.00	3250	120	1		

SHEET KEYNOTES

1 EXISTING GAS SYSTEM IS TO REMAIN AS IS. NO NEW WORK RELATED TO GAS SYSTEM.







1 GAS, SANITARY & DOM. WATER RISER DIAGRAMS

0' 4' 8' 16'
1/8" = 1'-0"

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SCHEDULES - PLUMBING

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Drawn DEK
Checked JN

P6.01

BID SET

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
C	CONDUIT, CLOSE, CONTROL
COORD	COORDINATE
CU	COPPER
dB	DECIBEL
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FF	FINISH FLOOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HH	HANDHOLE
HT	HEIGHT
ID	IDENTIFICATION
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
mA	MILLIAMPERES
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
MCC	MOTOR CONTROL CENTER
MT, MTD	MOUNT, MOUNTED
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
(N)	NEW
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
REF	REFERENCE
(R)	RELOCATE
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
SIM	SIMILAR
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
WG	WIRE GUARD
W/	WITH
W/O	WITHOUT

Connections / Equipment

- NON-FUSED DISCONNECT SWITCH
- FIRE SMOKE DAMPER
- SMOKE DAMPER
- CEILING MOUNTED JUNCTION BOX
- WALL-MOUNTED JUNCTION BOX

General

- DETAIL NUMBER AND SHEET LOCATION
- XX-X LOCATION — EQUIPMENT IDENTIFICATION
- KEYED NOTE
- DEMOLISH
- EXISTING WORK
- NEW WORK

Lighting

- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- RECESSED 1' X 4' LUMINAIRE
- RECESSED 1' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED 2' X 2' LUMINAIRE
- RECESSED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED 2' X 4' LUMINAIRE
- RECESSED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED LUMINAIRE
- RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT
- SURFACE OR PENDANT MOUNTED STRIPLIGHT

Miscellaneous

- #10 #10RMC B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER

Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE

Switches and Receptacles

- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
  R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  U = USB PORT(S)
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION
  LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
  X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
  P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
  X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
- CEILING MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  U = ULTRASONIC, 360 DEG RANGE
  H = ULTRASONIC, HALLWAY PATTERN
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH

Telecommunications

- RACEWAY ONLY DATA/TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING
  F = FLUSH CEILING MOUNTED
  R = SURFACE MOUNTED ON RACEWAY

Electronic Security

- CR — WALL MOUNTED ACCESS CONTROL CARD READER WITH 3/4" CONDUIT TO ACCESSIBLE CEILING AND CABLING TO NEAREST SECURITY PANEL

FIRE ALARM SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Initiation

- SMOKE DETECTOR, DUCT MOUNTED

Notification

- # — HORN/STROBE COMBINATION (# INDICATES MINIMUM CANDELA RATING, C = CEILING MOUNTED)
- # — STROBE, CEILING MOUNTED (# INDICATES MINIMUM CANDELA RATING)

GENERAL ELECTRICAL NOTES

A. ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE, LOCAL CODES AND NATIONAL ELECTRICAL CODE.

B. ALL ELECTRICAL PLANS, SCHEDULES, DRAWINGS AND SPECIFICATIONS SHALL BE EQUALLY CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS WITH NO EXCEPTIONS, EXEMPTIONS OR EXCLUSIONS. THERE SHALL BE NO CONSIDERATION OF PRECEDENCE OR PREFERENCE FOR ANY OF THESE COMPONENTS AS BEING EXCLUSIVE OF THE OTHERS.

C. FIRE ALARM DEVICES SHOWN ARE CONCEPTUAL AN NOT INTENDED TO SHOW THE FIRE ALARM SYSTEM IN ITS ENTIRITY. CONTRACTOR TO PROVIDE A COMPLETE DESIGN BUILD FOR ANY REQUIRED MODIFICTION TO THE EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH THE FIRE ALARM SPECIFICATIONS AND LOCALLY ADOPTED CODES AND STANDARDS.

D. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.

E. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.

F. COORDINATE WITH OWNER SO THAT WORK CAN BE SCHEDULED NOT TO INTERRUPT OPERATIONS, NORMAL ACTIVITIES, BUILDING ACCESS, ACCESS TO DIFFERENT AREAS. THE OWNER WILL COOPERATE TO THE BEST OF THEIR ABILITY TO ASSIST IN A COORDINATED SCHEDULE, BUT WILL REMAIN THE FINAL AUTHORITY AS TO TIME OF WORK PERMITTED.

G. REMOVE EXISTING LUMINAIRES, SWITCHES, RECEPTACLES, AND OTHER ELECTRICAL EQUIPMENT AND DEVICES AND ASSOCIATED WIRING FROM WALLS, CEILINGS, FLOORS, AND OTHER SURFACES SCHEDULED FOR REMODELING, RELOCATION, OR DEMOLITION UNLESS SHOWN AS RETAINED OR RELOCATED ON DRAWINGS.

H. DEMOLITION DRAWINGS ARE BASED ON EXISTING RECORD DOCUMENTS AND LIMITED FIELD OBSERVATION. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIAL AS IS NECESSARY TO ACCOMPLISH THE WORK. CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO OWNER AND ARCHITECT PRIOR TO DISTURBING EXISTING INSTALLATION. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS WITHOUT EXCEPTION.

I. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEMS. REMOVE OR RELOCATE ELECTRICAL BOXES, CONDUIT, WIRING, EQUIPMENT, LUMINAIRES, AND THE LIKE. AS REQUIRED IN REMOVED OR REMODELED AREAS IN THE EXISTING CONSTRUCTION AFFECTED BY THIS WORK.

J. REMOVE AND RESTORE WIRING WHICH SERVES USABLE EXISTING OUTLETS CLEAR OF THE CONSTRUCTION OR DEMOLITION.

K. IF EXISTING CONDUITS PASS THROUGH PARTITIONS OR CEILING WHICH ARE BEING REMOVED OR REMODELED. PROVIDE NEW CONDUIT AND WIRE TO REROUTE CLEAR OF THE CONSTRUCTION OR DEMOLITION AND MAINTAIN SERVICE TO THE EXISTING LOAD.

L. CONCEALED CONDUIT LOCATED IN CONCRETE WALLS OR HARDBOARD CEILING SPACES MAY BE ABANDONED IN PLACE. REMOVE CONDUCTORS AND TAG ABANDONED CONDUITS WITH CORRESPONDING SYSTEM AND TERMINATION POINT. CUT AND CAP ABANDONED CONDUIT. DO NOT EXTEND STUBS ABOVE FINISHED FLOOR.

M. EXTEND CIRCUITING AND DEVICES IN EXISTING WALLS TO BE FURRED OUT.

N. VERIFY EXACT LOCATION AND NUMBER OF EXISTING ELECTRICAL OUTLETS AND LUMINAIRES IN THE FIELD. LOCATIONS OF ITEMS SHOWN ON DRAWINGS AS EXISTING ARE PARTIALLY BASED ON RECORD AND OTHER DRAWINGS WHICH MAY CONTAIN ERRORS. VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIAL AS IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.

O. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

P. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.

Q. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.

R. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.

S. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.

T. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.

U. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.

V. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.

W. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.

X. VOLTAGE DROP SHALL BE CONSIDERED WHEN DETERMINING THE EXACT ROUTING OF FEEDERS AND BRANCH CIRCUIT WIRING.THE ELECTRICAL CONTRACTOR SHALL INCREASE CONDUCTOR SIZES IN CASES WHERE THE VOLTAGE DROP EXCEEDS 3% FOR INDIVIDUAL LOADS AND 5% FOR COMBINED LOADS.

Y. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.

Z. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.

AA. DESIGN OF TEMPORARY POWER FOR CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. REMOVE TEMPORARY POWER PRIOR TO COMPLETION OF PROJECT.

BB. ALL WORK ON SERVICE CONDUCTORS, FEEDERS, AND OTHER SUCH EQUIPMENT SHALL BE DONE ONLY WHEN SUCH CONDUCTORS, FEEDERS, AND EQUIPMENT ARE DE-ENERGIZED. THE CONTRACTOR SHALL HAVE AN "ELECTRICAL SAFETY AND LOCK-OUT/TAG-OUT PROCEDURE" IN PLACE PRIOR TO COMMENCEMENT OF WORK.

CC. OCCUPANCY SENSOR NOTES:
1. WALL SENSORS
   a. SENSOR MUST HAVE CLEAR "VIEW" OF OCCUPANTS. WHERE SENSOR WILL BE BLOCKED, SUBSTITUTE WITH SMALL-ROOM CEILING SENSOR.
2. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.
3. IN INDIVIDUAL ROOMS WITH CEILING SENSORS AND DUAL-LEVEL LIGHTING, ASSUME TWO SWITCH OVERRIDES PER ROOM.
4. PRIOR TO INSTALLATION, RECEIVE FACTORY-TRAINING AND LAYOUT-ASSISTANCE. IF LOCAL AGENT CHANGES LIGHTING DRAWINGS, CONTACT FACTORY REPRESENTATIVE.

DD. PROVIDE ALL BACKBOXES, FLOOR BOXES, FLOOR TRENCH DUCT, GROUNDING SYSTEM, PULL BOXES, CONDUITS, CABLING, AND CABLE TRAYS PER TELECOM/AV/SECURITY DRAWINGS AND SPECIFICATIONS. REFER TO TELECOM/AV/SECURITY DRAWINGS FOR QUANTITY AND LOCATIONS. PROVIDE ALL APPURTENANCES FOR A COMPLETE INSTALLATION.

EE. ALL LOW VOLTAGE DEVICES SHOWN ON PLANS ARE BACKBOXES AND RACEWAYS ONLY. PROVIDE CABLING AND DEVICES PER THE TELECOMMUNICATION CONSULTANT OR OWNER REQUIREMENTS.

FF. ALL AIC RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE AND UPGRADE RATINGS FOR ALL DISTRIBUTION EQUIPMENT AS PER SHORT CIRCUIT ANALYSIS RECOMMENTATIONS.

GG. SEE SHEET E6.01 FOR LUMINAIRE FIXTURE SCHEDULE AND LIGHTING CONTROL SEQUENCE OF OPERATIONS.

HH. ELECTRICAL DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC RELATED TO EXACT PATH OR TRAVEL AND ROUTING OF DUCT, WIRING OR PIPING. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ROUTING.

II. OORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS FOR INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS AND DRAWINGS.

GG. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH MAY REQUIRE ELECTRICAL WORK AND ARE NOT INDICATED ON THE ELECTRICAL PLANS.

SHEET INDEX

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Construction Documents for:

SOLID WASTE + TE&O

4300 S. 29TH STR, ARLINGTON, VA, 22206

Project: 21124-01

Issued	01/07/22
BID SET	

Revisions

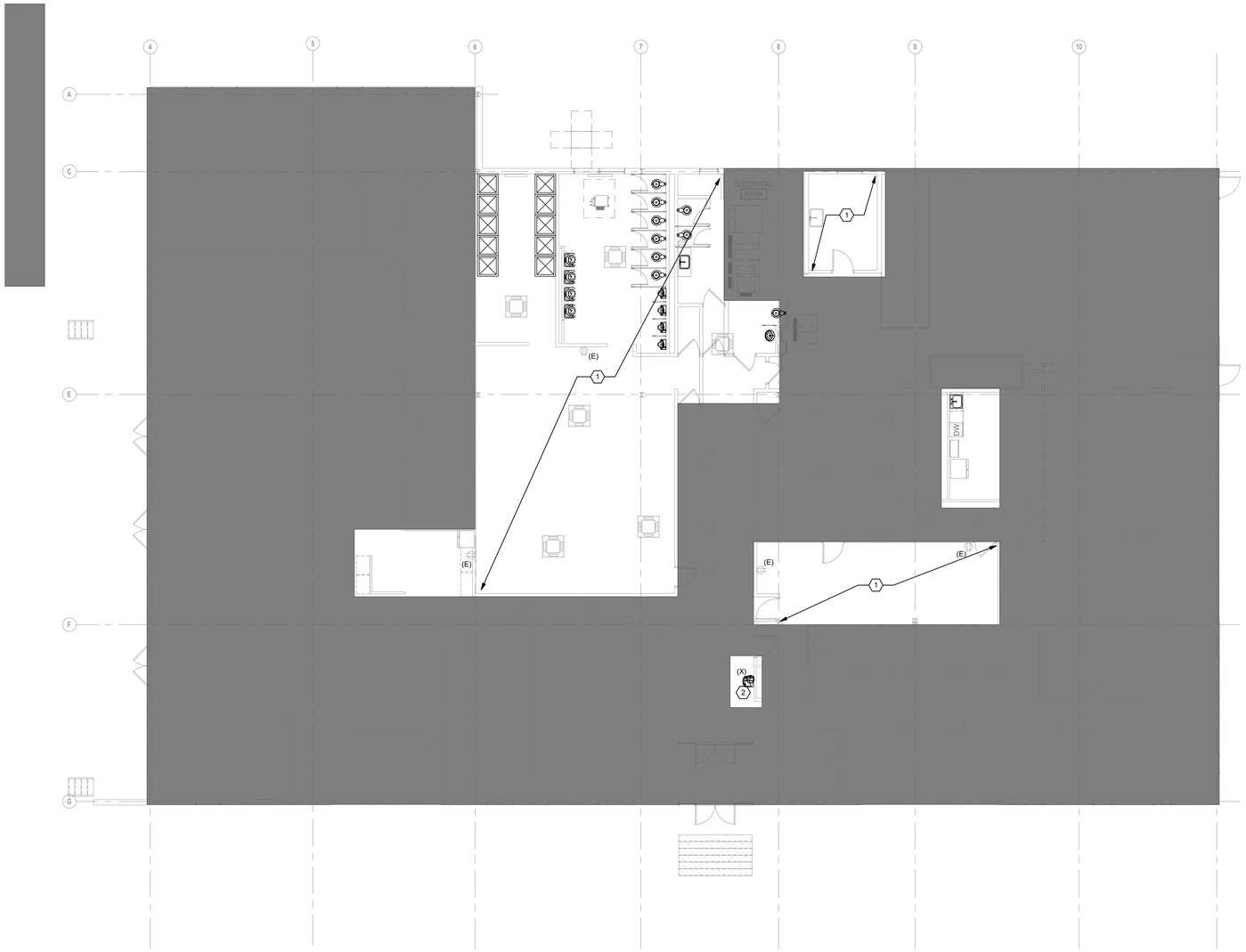
1	Permit Revisions	02/11/22
2	Bid Set	08/8/22

SYMBOL LIST AND GENERAL NOTES - ELECTRICAL

Scale **12" = 1'-0"**
Drawn ALF
Checked CS

E0.01

BID SET



1 LEVEL 1 DEMO POWER PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

SHEET KEYNOTES

1. ALL EXISTING DEVICES IN THIS AREA ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED. CONTRACTOR TO RETAIN CIRCUIT HOMERUN FOR REUSE. UPDATE CIRCUIT DIRECTORY IN EXISTING PANELS FOR FUTURE USE.
2. RECEPTACLE FOR EXISTING WATER COOLER TO BE DEMOLISHED. CONTRACTOR TO RETAIN CIRCUIT HOMERUN FOR USE WITH NEW WATER COOLER.

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DEMOLITION FLOOR PLAN - ELECTRICAL

Scale **1/8" = 1'-0"**
Drawn ALF
Checked CS

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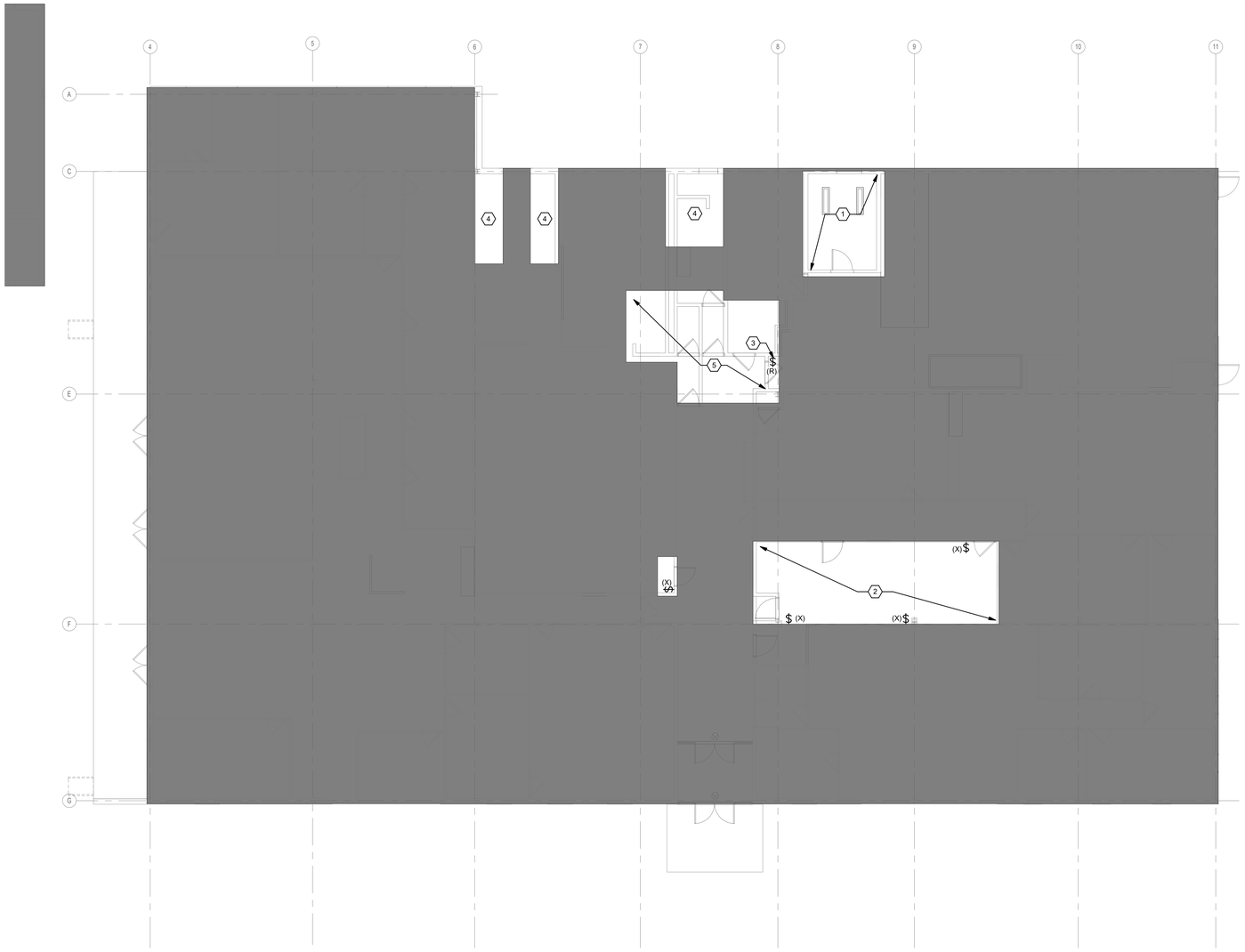
ED1.01

BID SET



1 LEVEL 1 DEMO LIGHTING PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

SHEET KEYNOTES

1. ALL EXISTING LIGHTING FIXTURES AND LIGHTING CONTROLS IN THIS AREA ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED.
2. ALL LIGHTING FIXTURES ARE EXISTING TO REMAIN AND LIGHTING CONTROLS IN THIS AREA ARE TO BE DEMOLISHED.
3. EXISTING LIGHTING SWITCH TO BE RELOCATED. REFER TO SHEET E2.01 FOR NEW LOCATION.
4. EXISTING LIGHTING FIXTURES OVER SHOWERS TO BE DEMOLISHED.
5. EXISTING LIGHTING FIXTURES IN THIS AREA TO BE RELOCATED TO MATCH ARCHTECTS NEW FIXTURE LAYOUT.

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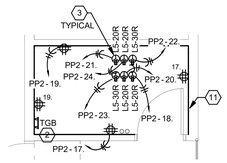
DEMOLITION FLOOR PLAN - LIGHTING

Scale **1/8" = 1'-0"**
Drawn ALF
Checked CS

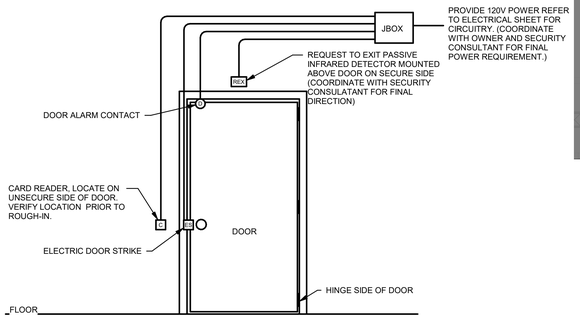
ED2.01

BID SET



2 Power Plan - IT CLOSET

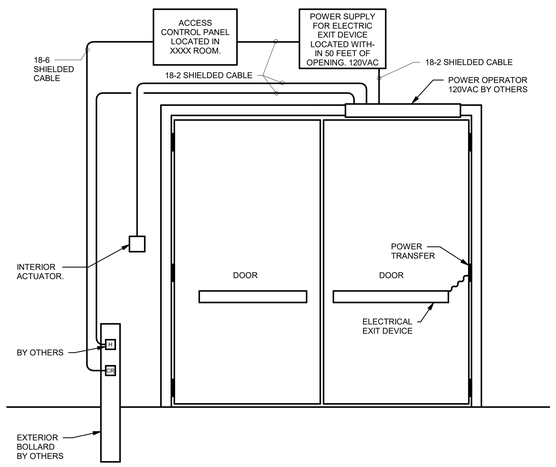
0' 4' 8' 16'
1/4" = 1'-0"



NOTE: COORDINATE INSTALLATION WITH DOOR HARDWARE SUPPLIER PRIOR TO ROUGH-IN

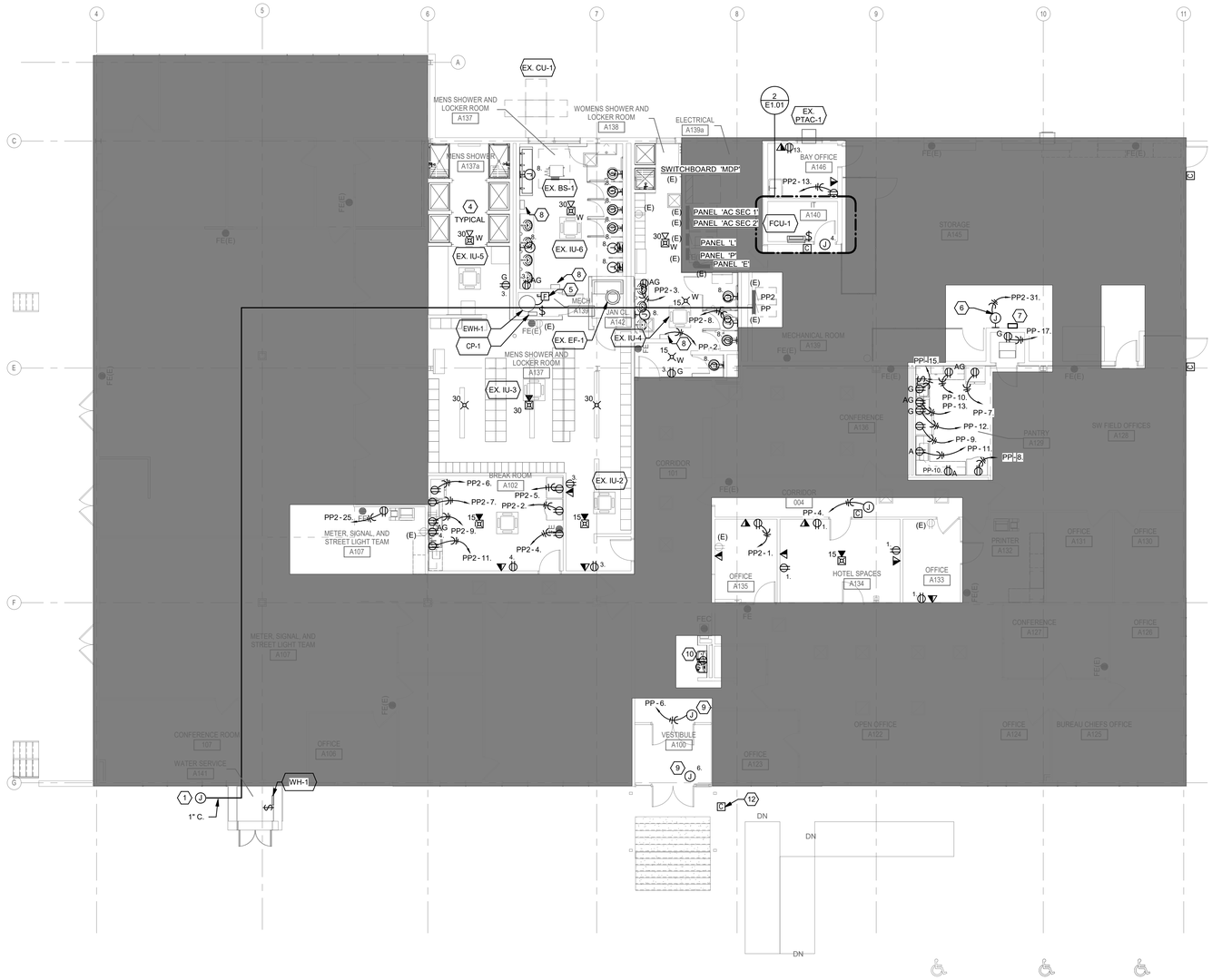
3 INTERIOR INTRUSION DOOR CONDUIT DETAIL

NO SCALE



4 DOUBLE ACCESS DOOR CARD READER DETAIL

NO SCALE



1 LEVEL 1 POWER PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

SHEET KEYNOTES

1. PROVIDE (1) 1" C. WITH PULL STRING FROM THIS LOCATION TO TERMINATE IN JUNCTION BOX ABOVE PANEL PP. COORDINATE EXACT ROUTING IN FIELD SO AS IT DOES NOT CONFLICT WITH ANY OTHER EQUIPMENT OR DEVICE. COORDINATE EXACT LOCATION OF JBOX WITH ARCHITECT PRIOR TO INSTALLING. COORDINATE EXACT LOCATION OF STUB UPS AT EXTERIOR WITH ARCHITECT PRIOR TO INSTALLING.
2. GROUNDING BUS BAR IN IT CLOSET. CONNECT TO EXISTING BUILDING GROUNDING BUS BAR IN MAIN ELECTRICAL ROOM.
3. RECEPTACLES TO BE RACK MOUNTED (TYPICAL FOR 6).
4. CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM SYSTEM. UPDATE AND REPROGRAM THE FIRE ALARM ANNUNCIATOR PANEL TO INDICATE NEW FIRE ALARM DEVICES.
5. PROVIDE A NEW 240V, 3P, 100A FUSIBLE SWITCH DISCONNECT WITH (3) 90A FUSES. CIRCUIT USING 3 #2AWG, 1 #8G IN 1 1/2" C.
6. HEAT TRACE JBOX FOR HEAT TRACE CIRCUIT. CONNECTION BY ELECTRICAL CONTRACTOR. COORDINATE WITH PLUMBING DRAWING FOR EXACT LOCATION OF HEAT TRACE PIPES.
7. HEAT TRACE CONTROL AND MONITOR MODULE. PROVIDE WITH 30mA GROUND FAULT SENSING, ALARM, AND TRIP FUNCTIONALITY.
8. MOUNT RECEPTACLE FOR TOWEL DISPENSER ABOVE SUSPENDED CEILING.
9. PROVIDE POWER FOR ELECTRICALLY OPERATED HARDWARE AS PER SECTION 08 71 00. COORDINATE FINAL CONNECTIONS AS PER MANUFACTURER'S REQUIREMENTS. REFER TO DETAIL 4 ON THIS SHEET.
10. NEW DUPLEX RECEPTACLE FOR NEW WATER COOLER. CONNECT TO CIRCUIT MADE AVAILABLE BY DEMOLITION. EXTEND CONDUCTORS AS REQUIRED. UPDATE PANEL SCHEDULE.
11. PROVIDE TELEPHONE BACKBOARDS ON ALL WALLS. REFER TO ARCHITECTURAL DRAWING FOR DETAILS.
12. CARD READER ON PEDESTAL. COORDINATE INSTALLATION WITH ARCHITECT.

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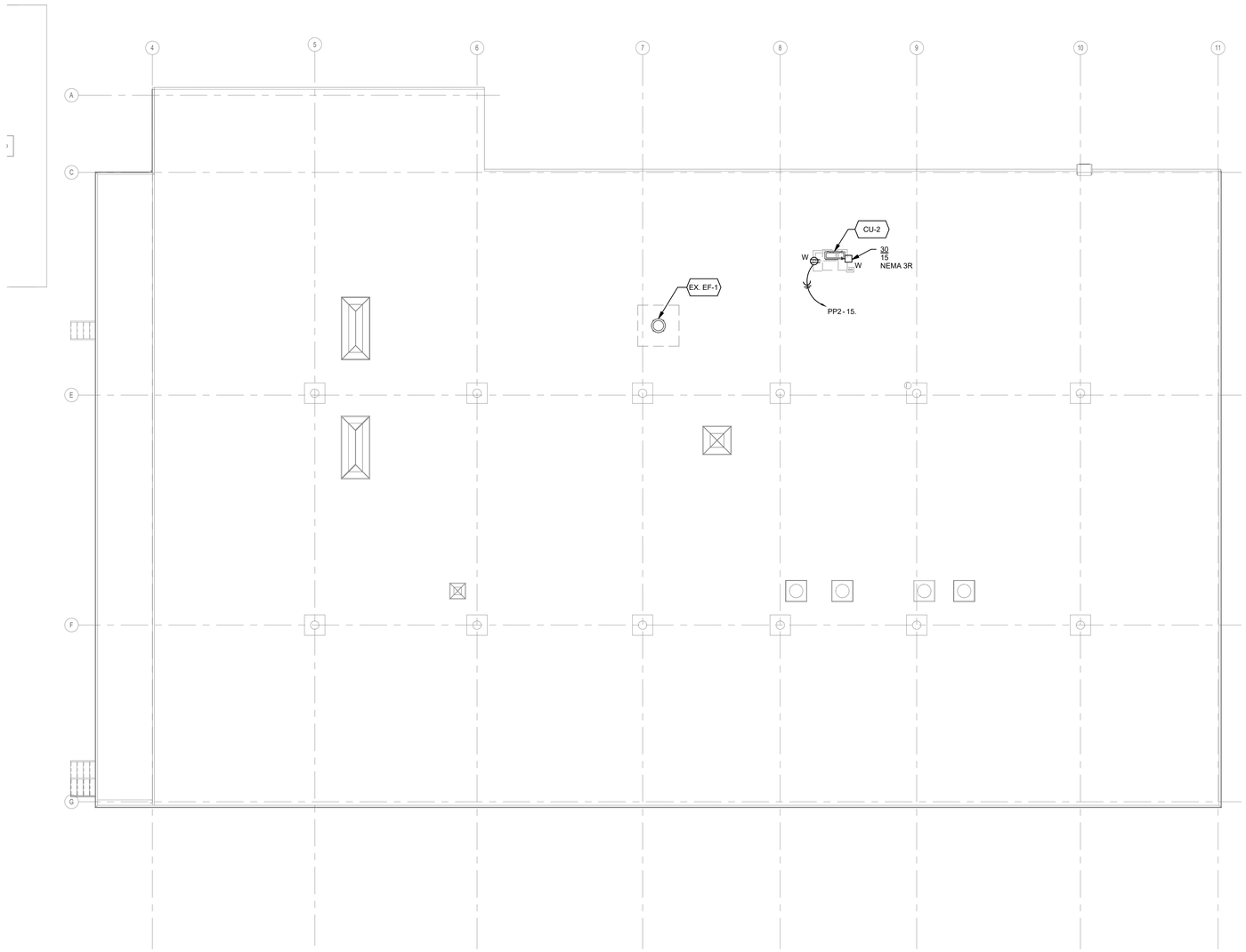
FLOOR PLAN - ELECTRICAL

Scale **As indicated**
Drawn ALF
Checked CS

E1.01

BID SET



1 ROOF POWER PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

INTERFACE ENGINEERING
PROJECT 2021-0931
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Construction Documents for:

SOLID WASTE + TE&O

4300 S. 29TH STR, ARLINGTON, VA, 22206

Project: 21124-01

Issued 01/07/22

BID SET

Revisions

1	Permit Revisions	02/11/22
2	Bid Set	08/8/22

ROOF PLAN - ELECTRICAL

Scale **1/8" = 1'-0"**
Drawn ALF
Checked CS

E1.10

BID SET

8/8/2022 3:16:20 PM
C:\Users\ashleyr\OneDrive - Interface Engineering, Inc\Documents\Ar Co SW_MEP Central v19_AshleyRCF989.rvt

1 LEVEL 1 LIGHTING PLAN - OVERALL

0' 4' 8' 16'
1/8" = 1'-0"

SHEET KEYNOTES

1. ADJUST LOCATIONS OF EXISTING LUMINAIRES IF REQUIRED TO AVOID CONFLICT WITH NEW WALLS AND TUBULAR SKYLIGHTS.
2. NEW LOCATION OF RELOCATED LIGHTING SWITCH. RECONNECT FOR OPERATION AS BEFORE.
3. RELOCATE EXISTING LUMINAIRES TO MATCH LAYOUT SHOWN TO ACCOUNT FOR NEW WALLS. ENSURE LIGHTS ON EMERGENCY CIRCUIT ARE LOCATED AS INDICATED. IF EXISTING QUANTITY OF LUMINAIRES IS INSUFFICIENT, PURCHASE NEW TO MATCH SPECIFICATION OF EXISTING.

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Issued	01/07/22
BID SET	

Revisions

1	Permit Revisions	02/11/22
2	Bid Set	08/8/22

FLOOR PLAN - LIGHTING

Scale **1/8" = 1'-0"**
Drawn ALF
Checked CS

E2.01

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BID SET

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER/POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	MFG/CATALOG #	NOTES
A1	RECESSED 1X4 VOLUMETRIC TROFFER	COLD ROLLED STEEL 1X4 X 4"H WITH CURVED REFLECTOR	CURVED CENTER BASKET ACRYLIC	RECESSED IN GRID	WHITE	UL LISTED	0-10V ELECTRONIC DIMMING DRIVER	LED, 4400 LUMENS, 80 CRI, 3000K	36.0	COLUMBIA LCAT SERIES #LCAT14-30-LW-G-EDU	
C1	4' LENSED STRIPLIGHT	FORMED STEEL HOUSING	CURVED DIFFUSE ACRYLIC LENS-WIDE	SURFACE OR SUSPENDED	WHITE	UL LISTED	FIXED OUTPUT ELECTRONIC DRIVER	LED, 3600 LUMENS, 80 CRI, 3500K	30.0	COLUMBIA MPS SERIES #MPS4-35-MW-C-W-EU	
C2	2' LENSED STRIPLIGHT	FORMED STEEL HOUSING	CURVED DIFFUSE ACRYLIC LENS-WIDE	SURFACE OR SUSPENDED	WHITE	UL LISTED	FIXED OUTPUT ELECTRONIC DRIVER	LED, 2300 LUMENS, 80 CRI, 3500K	18.2	COLUMBIA MPS SERIES #MPS2-35-MW-C-W-EU	

NOTES

1 THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.

2 DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM.

3 COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.

4 SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.

5 PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DIMMABLE LED DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD

6 PROVIDE FUNCTIONAL TESTING OF LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH THE VIRGINIA ENERGY CONSERVATION CODE.

7 PROVIDE UL 924 SWITCHING DEVICES FOR ALL EMERGENCY LIGHT FIXTURES.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

TYPICAL ROOM TYPE	SENSOR TYPE	TIMEOUT	TECHNOLOGY	PHOTOCELL	TIMECLOCK BACKUP	SWITCH	TYPE	LOW VOLTAGE, OR WIRELESS SENSOR	CONTROLLED RECEPTACLE	EMERGENCY (SWITCHED/UNSWITCHED)	NOTES	SCENES AND ENGRAVING			
Hoteling	VACANCY	20	DUAL	NO	NO	2-BUTTON + DIMMING	ON/OFF WITH MANUAL DIMMING	LOW VOLTAGE	N	SWITCHED	VACANCY SENSOR CONTROL, AUTO OFF, MANUAL ON, WITH MANUAL OVERRIDE TO OFF.				
Locker Rooms	OCCUPANCY	10	DUAL	NO	NO	TOGGLE SWITCH	ON/OFF	LOW VOLTAGE	N	SWITCHED	OCCUPANCY SENSOR CONTROL. AUTO ON WITH OCCUPANCY SENSOR, WITH MANUAL OVERRIDE TO OFF (SECURE LOCATION)				
Office	VACANCY	15	DUAL	NO	NO	2-BUTTON + DIMMING	ON/OFF WITH MANUAL DIMMING	LOW VOLTAGE	Y	SWITCHED	VACANCY SENSOR CONTROL WITH MANUAL DIMMING ABILITY (MULTIPLE ZONES DIMMED SEPARATELY). AUTO OFF, MANUAL ON). SWITCHED RECEPTACLES AUTO ON WITH OCCUPANCY SENSOR.	BUTTON 1: ALL ON	BUTTON 2: ALL OFF	MANUAL DIMMING (SEPARATE OPERATION PER ZONE)	
Copy	VACANCY	10	PIR	NO	NO	SENSOR SWITCH	SINGLE POLE	LINE VOLTAGE	Y	SWITCHED	VACANCY SENSOR CONTROL, AUTO OFF, MANUAL ON, WITH MANUAL OVERRIDE TO OFF.				
Data/Elect/IT	VACANCY	10	PIR	NO	NO	TOGGLE SWITCH	ON/OFF	LOW VOLTAGE	N	SWITCHED	VACANCY SENSOR CONTROL, AUTO OFF, MANUAL ON, WITH MANUAL OVERRIDE TO OFF.				

Notes:

1 FOR ALL SENSOR AND SWITCH DEVICES, PROVIDE QUANTITIES AS SHOWN ON LIGHTING PLANS
2 PROVIDE ONE KEYPAD / SWITCH PER ONE CONTROL ZONE SHOWN ON THE LIGHTING PLANS, UNLESS OTHERWISE NOTED.
3 ALL COMPONENTS SHOWN AND INDICATED ON THIS SCHEDULE, BUT NOT SHOWN ON THE PLAN OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
4 PROVIDE LIGHTING CONTROL PANELS / RELAYS, CABLES, WIRES AND ACCESSORIES AS REQUIRED TO FULFILL THE CONTROL REQUIREMENTS SHOWN ABOVE.
5 ALL AUTOMATIC DIMMING SHALL BE CONTINUOUS.
6 EMERGENCY LIGHTING INDICATED AS "UNSWITCHED" TO REMAIN UNSWITCHED, WITH TIMECLOCK OVERRIDE TO OFF(WHERE TIMECLOCK IS INDICATED). LOCAL OVERRIDE SWITCHING CAPABLE OF OVERRIDING TIMECLOCK FOR 2 HOURS MAXIMUM.
7 IN OTHER AREAS WITH EMERGENCY LIGHTING, EMERGENCY LIGHTS SHALL BE CONNECTED TO AN EMERGENCY LIGHTING RELAY AND CONTROLLED BY SPACE KEYPAD / SWITCH WHERE APPLICABLE.
8 THIS SEQUENCE OF OPERATIONS IS BASED ON A STANDALONE SYSTEM, WITH TIMECLOCK CONTROL IN AREAS INDICATED ABOVE. IN AREAS WITH TIMECLOCK CONTROL AND LOCAL OCCUPANCY SENSORS, THE OCCUPANCY SENSORS SHALL OPERATE ONLY BEFORE AND AFTER NORMAL BUSINESS HOURS, UNTIL TIMECLOCK SWEEPS LIGHTS OFF. GENERAL COMPONENTS INCLUDE TIMECLOCK WITH INTEGRAL OVERRIDE, MANUAL WIRED AND WIRELESS CONTROL POINTS, PHOTOCELLS IN DAYLIT AREAS, OCCUPANCY SENSORS, AND LOAD CONTROLLER AS COORDINATED BETWEEN ENGINEER AND ELECTRICAL CONTRACTOR (CONTROL PANELS, OR DISTRIBUTED LOAD CONTROLLERS). CONTROL POINTS AND SENSING DEVICES TO BE LOW VOLTAGE, WITH THE EXCEPTION OF INTEGRATED WALLSWITCH SENSORS.

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title:
Project Type: Alteration

Construction Site: 4300 S. 29th St. Arlington, Virginia 22206
Owner/Agent:
Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Locker Room (Common Space Types:Locker Room)	2706	0.75	2030
		Total Allowed Watts =	2030

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)
Locker Room (Common Space Types: Locker Room, 2706 sq.ft.)				
LED: A1: LED 2X4: Other:	1	3	39	117
LED: A2: LED 2X2: Other:	1	17	32	544
LED: C1: LED Strip: Other:	1	1	61	61
LED: D: LED Downlight: Other:	1	31	17	527
LED: A3: LED 1X4: Other:	1	2	32	64
			Total Proposed Watts =	1313

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 90.1 (2013) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title:
Data filename:
Report date: 10/05/21
Page 1 of 4

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 90.1 (2013) Standard

Requirements: 0.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 9.4.3, 9.7 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title:
Data filename:
Report date: 10/05/21
Page 2 of 4

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.1 [EL1][1]	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
9.4.1.1 [EL2][1]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
9.4.1.2 [EL11][1]	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
9.4.1.1f [EL13][1]	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
9.4.1.3 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
9.6.2 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title:
Data filename:
Report date: 10/05/21
Page 3 of 4

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16][1]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
8.7.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
9.2.2.3 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title:
Data filename:
Report date: 10/05/21
Page 4 of 4

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Project: 21124-01

Issued	01/07/22
BID SET	

Revisions

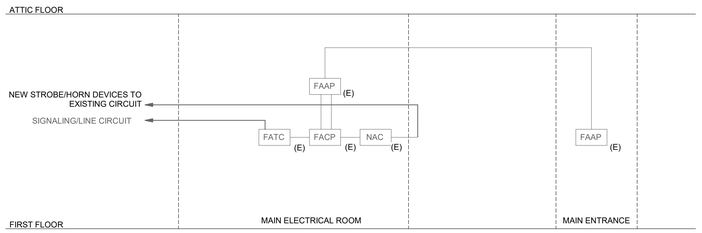
1	Permit Revisions	02/11/22
2	Bid Set	08/8/22

SCHEDULES - ELECTRICAL

Scale
Drawn LR
Checked CS

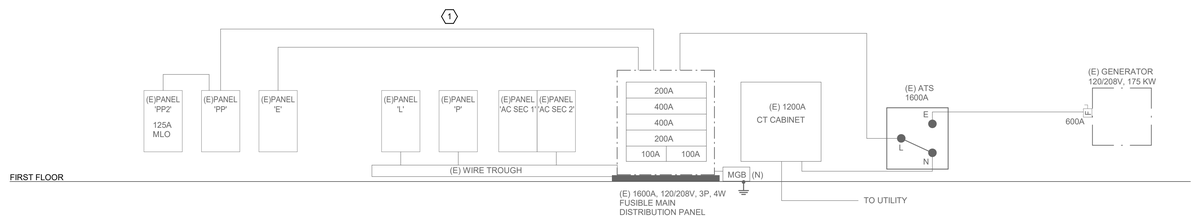
E3.01

BID SET



2 EXISTING FIRE ALARM DIAGRAM

NO SCALE



1 EXISTING ONE-LINE POWER DISTRIBUTION DIAGRAM

NO SCALE

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	VOLTS	PH	LOAD(VA)	HP	MCA	MOCP	CIRCUIT NUMBER	WIRE / CONDUIT	NOTES
CP-1	COIRCULATION PUMP	MECH A139	120	1	528.0	1/6	5.5	20	PP-14	202	
CU-2	CONDENSER UNIT	R00F	208	1	1164.8		7	15	PP2-14,16	202	
EWH-1	WATER HEATER	MECH A139	208	3	24137.9		83.33	90	PP-25,27,29	903	
FCU-1	FAN COIL UNIT	IT - A140	208	1	3120.0		18.75	25	PP2-10,12	202	
WH-1	WALL HEATER	WATER SERVICE A141	208	3	10004.6		34.72	50	PP-38,40,42	403	

WIRE/CONDUIT SCHEDULE

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.
403 3 #8 CU, 1 #10 CU GND., IN 3/4" C.
903 3 #2 CU, 1 #8 CU GND., IN 1-1/4" C.

GENERAL MECHANICAL EQUIPMENT CONNECTION NOTE:

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION.
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1

2

SHEET KEYNOTES

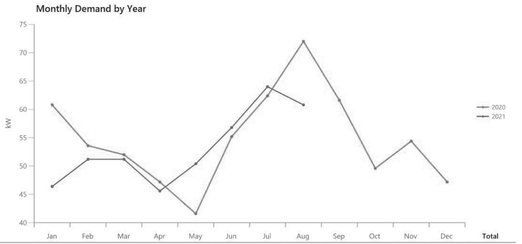
1. CONTRACTOR TO VERIFY FEEDER AMPACITY FOR PANEL PP IS 3/0 CU. MINIMUM. OTHERWISE UPDATE FEEDER AS REQUIRED.

Arlington County Government
Arlington County

Report-01-MTR - Monthly Trends-Comparing Year-to-Year – Meters

Monthly Demand by Year

Executive Summary (kW)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2020	61	54	52	47	42	55	62	72	62	50	54	47	658
2021	46	51	51	46	50	57	64	61					426

Page 1 9/20/2021 12:38 PM ENERGYCAP

Arlington County SW Facility - Service Demand Loads per NEC 220.87

Building Service Voltage	208V/3-Phase
Building Service Existing Max Demand Load (August 2020)	72.00 KW
@0.85PF (worst case)	84.71 KVA
Existing Max Demand at 125% per NEC 220.87	105.88 KVA
Connected Load of Renovation	73.20 KVA
Total New Load	179 kVA
@ 208V/3PH	**497.08 A**
Remaining available capacity from existing service (800A)	302.92 A

PANELBOARD: PP (EXISTING)

MAIN LUG ONLY
BUS AMPACITY: 225 A
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE
AIC RATING: 35,000 A
AVAILABLE FAULT CURRENT:

MOUNTING: SURFACE **Accessories:**
ENCLOSURE: TYPE 1
LOCATION: MECHANICAL ROOM...
SUPPLIED FROM: MDP

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	PP2	Moto...	100 A	3	1	8,392			540				1	20 A	R	TOWEL DISPENSERS - A137, A138	2
3	--	--	--	--	--		8,363			300			1	20 A	G	CARD READERS	4
5	--	--	--	--	--			9,180			2,000		1	20 A	G	ADA DOOR OPER - VEST. A100	6
7	REFRIGERATOR - A129	G	20 A	1	3	800			800				1	20 A	G	VENDING MACHINE - A129	8
9	REFRIGERATOR - A129	G	20 A	1	3		800			1,600			1	20 A	G	RECEPTACLES - A129	10
11	MICROWAVE - A129	G	20 A	1				1,000			800		1	20 A	G	DISHWASHER - A129	12
13	WATER DISPENSER - A129	G	20 A	1		800			528				1	20 A	Motor	CP-1 - A139	14
15	DISPOSAL - A129	G	15 A	1			1,100			0			1	20 A	--	SPARE BREAKER	16
17	ICE MAKER - A129	G	20 A	1				800			0		1	20 A	--	SPARE BREAKER	18
19	SPARE BREAKER	--	20 A	2		0			0				2	15 A	--	SPARE BREAKER	20
21	--	--	--	--	--		0			0		--	--	--	--	--	22
23	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	24
25	WATER HEATER - A139	W	90 A	3	2	8,046			0				1	20 A	--	SPARE BREAKER	26
27	--	--	--	--	--		8,046			0			1	20 A	--	SPARE BREAKER	28
29	--	--	--	--	--			8,046			0		1	20 A	--	SPARE BREAKER	30
31	SPARE BREAKER	--	20 A	1		0			0				1	20 A	--	SPARE BREAKER	32
33	SPARE BREAKER	--	20 A	1			0			0			1	20 A	--	SPARE BREAKER	34
35	SPARE BREAKER	--	20 A	1				0			0		1	20 A	--	SPARE BREAKER	36
37	SPARE BREAKER	--	20 A	1		0			3,335				3	40 A	Motor	WALL HEATER - A141	38
39	SPARE BREAKER	--	20 A	1			0			3,335		--	--	--	--	--	40
41	SPARE BREAKER	--	20 A	1				0			3,335	--	--	--	--	--	42

Total Connected load Ph. A 194 A Panel Connected Load: 71.9 kVA 199.7 A
Total Connected load Ph. B 197 A Total Demand Load: 78.0 kVA 216.6 A
Total Connected load Ph. C 210 A

Notes:
1. PROVIDE NEW 3 POLE 100A CIRCUIT BREAKER TO SERVE PANEL 'PP2'. MATCH MANUFACTURER, RATING AND TYPE.
2. REPLACE EXISTING 3P 20A CIRCUIT BREAKER WITH A 3P, 90A CIRCUIT BREAKER. MATCH MANUFACTURER, RATING AND TYPE.
3. REPLACE EXISTING 1P 20A CIRCUIT BREAKER WITH A 1P 20A GFCI CIRCUIT BREAKER.

Load Type Definitions:
Motor (125% largest Motor + 100% remaining... K = Kitchen (Demand as per NEC Table 220.56) C = Continuous Load (125%) X = X-Rays (Demand per NEC...
R = Receptacles (to 10kVA100%, over 10 kVA... G = General Load (Non-continuous) (100%) L = Lighting (125%) H = Heating (100%)
E = Existing Load 30-day metered (125%) EL = Elevator (Demand as per NEC Table... W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
H	1050.0	100.00%	1050.0		
L	150.2	125.00%	187.8	**Total Connected Load:**	71945.5 VA
Motor	38955.3	115.49%	44989.7	**Total NEC Demand:**	78017.5 VA
G	22750.0	100.00%	22750.0	**Total Connected Current:**	199.7 A
R	9040.0	100.00%	9040.0	**Total NEC Demand Current:**	216.6 A

PANELBOARD: PP2 (EXISTING)

MAIN LUG ONLY
BUS AMPACITY: 125 A
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE
AIC RATING: 10,000 A
AVAILABLE FAULT CURRENT:

MOUNTING: SURFACE **Accessories:**
ENCLOSURE: TYPE 1
LOCATION: MECHANICAL ROOM...
SUPPLIED FROM: PP

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	B	C	A	B	C	Note	Pole	C.B.	Type	Description/Location	CKT
1	RECEPTACLES - A133, A134, A135	R	20 A	1		900			1,000				1	20 A	R	RECEPTACLE - VENDING...	2
3	RECEPTACLES - A137, A137A,...	R	20 A	1			1,080			540			1	20 A	R	RECEPTACLES - A102	4
5	RECEPTACLE - VENDING...	R	20 A	1				1,000			800		1	20 A	G	REFRIGERATOR - A102	6
7	MICROWAVE - A102	G	20 A	1		1,200			850				1	20 A	G	SENSOR VALVES - A138	8
9	DISHWASHER - A102	R	20 A	1			1,200			1,560			2	15 A	Motor	FCU-1 - A140	10
11	DISPOSAL - A102	G	15 A	1				1,100			1,560	--	--	--	--	--	12
13	RECEPTACLES - A146	R	20 A	1		360			582				2	30 A	Motor	CU-2	14
15	ROOF RECEPTACLE	R	20 A	1			180			582		--	--	--	--	--	16
17	QUAD RECEPTACLES - IT CLOSET	R	20 A	1				720			900		1	20 A	G	L5-20R REC - IT CLOSET	18
19	QUAD RECEPTACLES - IT CLOSET	R	20 A	1		720			900				1	20 A	G	L5-20R REC - IT CLOSET	20
21	L5-20R REC - IT CLOSET	G	20 A	1			900			2,200			1	30 A	G	L5-30R REC - IT CLOSET	22
23	L5-30R REC - IT CLOSET	G	30 A	1				2,200			900		1	20 A	G	L5-20R REC - IT CLOSET	24
25	COPIER - A107	R	20 A	1		800			30				1	20 A	L	LIGHTING - A133, A134, A135	26
27	LIGHTING - A138, A146	L	20 A	1			120			0			2	40 A	--	SPARE BREAKER	28
29	SPARE BREAKER	--	20 A	1				0			0	--	--	--	--	--	30
31	HEAT TRACE - SERVICE BAY A145	H	20 A	1	1	1,050			0				2	40 A	--	SPARE BREAKER	32
33	SPARE BREAKER	--	20 A	1			0			0		--	--	--	--	--	34
35	SPARE BREAKER	--	20 A	1				0			0		2	40 A	--	SPARE BREAKER	36
37	SPARE BREAKER	--	20 A	1		0			0			--	--	--	--	--	38
39	SPARE BREAKER	--	20 A	1			0			0			2	40 A	--	SPARE BREAKER	40
41	SPARE BREAKER	--	20 A	1				0			0	--	--	--	--	--	42

Total Connected load Ph. A 70 A Panel Connected Load: 25.9 kVA 72.0 A
Total Connected load Ph. B 70 A Total Demand Load: 26.8 kVA 74.3 A
Total Connected load Ph. C 77 A

Notes:
1. PROVIDE 20A, 1P GFCI CIRCUIT BREAKER.

Load Type Definitions:
Motor (125% largest Motor + 100% remaining... K = Kitchen (Demand as per NEC Table 220.56) C = Continuous Load (125%) X = X-Rays (Demand per NEC...
R = Receptacles (to 10kVA100%, over 10 kVA... G = General Load (Non-continuous) (100%) L = Lighting (125%) H = Heating (100%)
E = Existing Load 30-day metered (125%) EL = Elevator (Demand as per NEC Table... W = Water Heater (125%)

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
H	1050.0	100.00%	1050.0		
L	150.2	125.00%	187.8	**Total Connected Load:**	25935.0 VA
Motor	4284.8	118.20%	5064.8	**Total NEC Demand:**	26752.6 VA
G	11950.0	100.00%	11950.0	**Total Connected Current:**	72.0 A
R	8500.0	100.00%	8500.0	**Total NEC Demand Current:**	74.3 A

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BID SET

Revisions
1 Permit Revisions 02/11/22
2 Bid Set 08/8/22

SCHEDULES - ELECTRICAL

Scale **NO SCALE**
Drawn ALF
Checked CS

E4.01

BID SET