CULPEPER STATION
RAILROAD PEDESTRIAN BRIDGE
TOWN OF CULPEPER, VIRGINIA

DRAWING NO.	TITLE
C–1	COVER SHEET
C–2	GENERAL NOTES
C–3	ABBREVIATIONS AND LEGEND
C–4	EXISTING CONDITIONS AND DEMOLITION PLAN
C–5	SITE PLAN
C–6	GRADING PLAN
C–7	SITE UTILITIES AND DRAINAGE PLAN
C–8	STORM DRAINAGE PROFILES AND CALCULATIONS
C–9	PEDESTRIAN BRIDGE SECTION AND DETAILS
C–10	DETAILS
C–11	DETAILS
C–12	DETAILS
C–13	DRAINAGE AREA MAP
C–14	EROSION AND SEDIMENT CONTROL PLAN
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C–16	EROSION AND SEDIMENT CONTROL DETAILS
SL–1	OVERALL SITE LIGHTING PHOTOMETRIC PLAN
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S–9	FRAMING ELEVATIONS – SHEET 3
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S–12	SECTIONS AND DETAILS – SHEET 1
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S–14	SECTIONS AND DETAILS – SHEET 3
S–15	SECTIONS AND DETAILS – SHEET 4
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A0.1	ARCHITECTURAL NOTES & DETAILS
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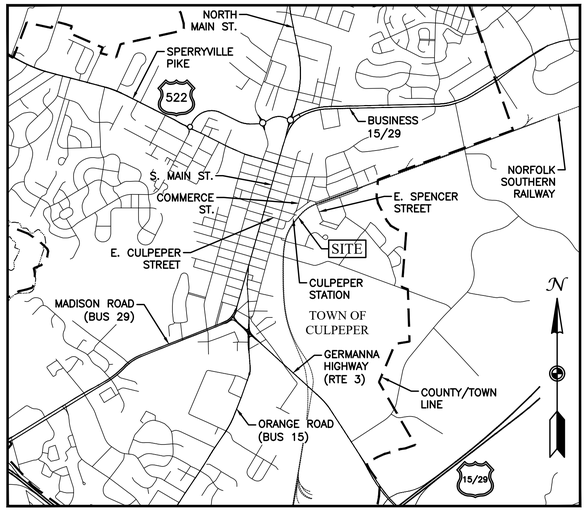
P–1	NEW RESTROOM FACILITY PLUMBING PLAN AND RISER DIAGRAM
E–1	LEGEND, ABBREVIATIONS, GENERAL NOTES AND POWER DISTRIBUTION DIAGRAM
E–2	PARTIAL SITE PLAN
E–3	POWER PLAN AND LIGHTING PLAN
E–4	POWER PLAN AND LIGHTING PLAN
E–5	DETAILS
E–6	SCHEDULES

REFERENCE DRAWINGS (NOT IN CONTRACT)

CULPEPER STATION EAST SPENCER STREET PARKING IMPROVEMENTS

DRAWING NO.	TITLE
C–6	SITE LAYOUT PLAN



VICINITY MAP
SCALE: 1"=2000'

NOTES:

1. ARCHITECTURAL PLANS FOR THE CONSTRUCTION OF THE WEST TOWER AND RESTROOM FACILITIES WERE APPROVED BY THE TOWN OF CULPEPER ARCHITECTURAL REVIEW BOARD ON MAY 25, 2022 (COF–3362–2022).
2. WORK SHOWN ON THESE PLANS SHALL BE COORDINATED WITH THE FOLLOWING PLAN SETS:
   - CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE, TOWN OF CULPEPER, VIRGINIA
   - CULPEPER STATION EAST SPENCER STREET PARKING IMPROVEMENTS, TOWN OF CULPEPER, VIRGINIA
3. ALL CONTRACTOR LAYDOWN AREAS SHALL BE LOCATED ON THE EAST SIDE OF THE RAILROAD RIGHT–OF–WAY WHERE THE EAST SPENCER STREET PARKING IMPROVEMENTS ARE LOCATED. NO LAYDOWN AREAS WILL BE PERMITTED ON THE WEST SIDE OF THE RAILROAD RIGHT–OF–WAY ADJACENT TO THE WEST TOWER AND TRAIN STATION DEPOT.
4. A WAREHOUSE SPACE LOCATED AT 106 COMMERCE STREET MAY BE USED FOR STORAGE OF MATERIALS. THE SPACE IS APPROXIMATELY 27 FEET WIDE BY 45 FEET LONG AND HAS A 9 FOOT WIDE ENTRANCE.

SITE DATA:

OWNER:	TOWN OF CULPEPER, VIRGINIA
CONTACT:	CHRIS HIVELY, TOWN MANAGER
ADDRESS:	400 SOUTH MAIN STREET CULPEPER, VA 22701
TELEPHONE:	(540) 829–8250
ENGINEER INFORMATION:	WW ASSOCIATES, INC.
ADDRESS:	968 OLYMPIA DRIVE, SUITE 1 CHARLOTTESVILLE, VA. 22911
PROJECT ENGINEER:	HERBERT F. WHITE III, P.E.
TELEPHONE:	(434) 984–2700
E–MAIL ADDRESS:	HWHITE@WWASSOCIATES.NET
CITY, STATE:	TOWN OF CULPEPER, VA
MAGISTERIAL DISTRICT:	EAST FAIRFAX
SOURCE OF SURVEY:	WW ASSOCIATES, INC, JANUARY 2021
SOURCE OF TOPOGRAPHY:	WW ASSOCIATES, INC, JANUARY 2021
SURVEY DATUM:	NAD83 AND NAVD88, STATE PLANE COORDINATES, VIRGINIA, NORTH GRID
TAX MAP PARCELS:	41A2–1H2–18, 41A2–1H2–18A, 41A2–1H2–19
SITE AREA (ALL 3 PARCELS):	5.47 AC.
IMPERVIOUS AREA (PROPOSED WITH THIS PLAN):	0.12 AC.
BUILDING INFORMATION:	TOTAL NUMBER OF BUILDINGS – 3
RESTROOM:	GENERAL USE – PUBLIC RESTROOM NUMBER OF FLOORS – 1 HEIGHT – ±13' FLOOR AREA – 318 S.F.
EAST TOWER:	GENERAL USE – ELEVATOR TOWER NUMBER OF FLOORS – 2 HEIGHT – ±49'–3" FLOOR AREA – 224 S.F.
WEST TOWER:	GENERAL USE – ELEVATOR TOWER NUMBER OF FLOORS – 2 HEIGHT – ±45'–6" FLOOR AREA – 186 S.F.

NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
REG. NO. 122571
PROFESSIONAL ENGINEER
8-12-22

BID SET
REVISED 11/11/22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4139, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: COVER SHEET		DRAWING NUMBER: C–1
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_CS–2.dwg	DISCIPLINE: CIVIL	SCALE: H: AS SHOWN V: N/A
			DATE: 5/27/22

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GENERAL NOTES

1. PHYSICAL FEATURES, PROPERTY BOUNDARIES, AND UNDERGROUND UTILITY LOCATIONS ARE BASED ON FIELD SURVEYS PERFORMED BY WW ASSOCIATES, INC. IN DECEMBER 2020 AND JANUARY 2021. HORIZONTAL DATUM IS BASED ON VIRGINIA STATE PLANE, NORTH ZONE, NAD83. VERTICAL DATUM IS BASED ON NAVD88. BENCHMARKS WILL BE SET PRIOR TO CONSTRUCTION FOR ELEVATION REFERENCE.

2. ALL WORK IN PUBLIC ROADS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS. ALL WORK IN PUBLIC RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE CONTRACT DRAWINGS, PROJECT MANUAL, SUBMITTALS, AND SHOP DRAWINGS AT THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

3. THE LOCATION, DIMENSIONS, AND ELEVATION OF EXISTING STRUCTURES, PIPING, AND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE DATA AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DATA IN THE FIELD PRIOR TO CONSTRUCTION TO HIS OWN SATISFACTION. THE DIAMETERS OF EXISTING PIPING ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO PERFORMING FINAL CONNECTIONS. THE CONTRACTOR SHALL PERFORM ANY TEST PIT WORK OR PROVIDE LOCATION SERVICE AS REQUIRED TO AVOID CONFLICTS WITH EXISTING UTILITIES OR STRUCTURES. EXISTING UNDERGROUND UTILITIES ARE BASED ON MARKS PROVIDED BY MISS UTILITY OF VIRGINIA. CONTACT MISS UTILITY (TELEPHONE No. 811) 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION TO HAVE UTILITIES MARKED.

4. CHANGES IN NEW PIPING FROM THAT SHOWN ON THE DRAWINGS, IN ORDER TO AVOID CONFLICTS WITH EXISTING ELECTRICAL SYSTEMS, MECHANICAL SYSTEMS, EQUIPMENT, STRUCTURES, OR EXISTING PIPING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHETHER THE CONFLICTS ARE SHOWN OR ARE DISCOVERED IN THE FIELD. LIKEWISE, ALTERATIONS TO EXISTING ELECTRICAL SYSTEMS, MECHANICAL SYSTEMS, EQUIPMENT, OR EXISTING PIPING IN ORDER TO ACCOMMODATE NEW PIPING AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE OWNER AND THE ENGINEER MUST APPROVE ALL SUCH CHANGES.

5. MAINTAIN AND PROTECT ALL OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, CABLE TV, WATER, GAS, SEWER, AND ALL OTHER UTILITIES DURING ENTIRE CONSTRUCTION PERIOD. SEPTIC SYSTEM AND WATER SERVICE INTERRUPTIONS AND OTHER UTILITY OUTAGES WILL NOT BE ALLOWED.

6. VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED FOR ALL DISTURBED AREAS IN ACCORDANCE WITH ALL LOCAL REQUIREMENTS AND THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED AS A FIRST STEP IN CONSTRUCTION AND BEFORE EXCAVATION BEGINS. SILT FENCE, CULVERT INLET PROTECTION, INLET PROTECTION, AND OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO PREVENT THE MOVEMENT OF SEDIMENT DOWNSTREAM.

7. ALL DISTURBED AREAS SHALL BE SEEDED AND PROVIDED WITH EROSION CONTROL DURING AND AT THE END OF CONSTRUCTION.

8. UNLESS OTHERWISE NOTED, REMOVE AND DISPOSE OF ALL ITEMS INDICATED TO BE DEMOLISHED OFF THE OWNER'S PROPERTY IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

9. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL CONFINED SPACE ENTRY REGULATIONS.

10. THE CONTRACTOR SHALL BE FULLY LIABLE FOR REPAIR OF ANY DAMAGES ON PUBLIC OR PRIVATE PROPERTY CAUSED BY HIS CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE ALL DISTURBED SURFACES IN KIND, INCLUDING PAVEMENT, STONE, DITCHES, MAILBOXES, STORM CULVERTS, DRIVEWAY CULVERTS, ETC. CONTRACTOR SHALL REPLACE ROADSIDE SHOULDERS, DITCHES, FILL SLOPES/CUTS TO STABILIZED PRECONSTRUCTION CONDITIONS. TREES SHALL BE PROTECTED AS MUCH AS POSSIBLE. IF TREES ARE DAMAGED, THEY SHALL BE TRIMMED OR REPAIRED TO PRESERVE THEIR LIFE. ROAD CULVERTS IMPACTED BY THE PROJECT SHALL BE SUPPORTED PROPERLY DURING WATER LINE CONSTRUCTION. CULVERTS SHALL BE BACKFILLED AND PROPERLY COMPACTED PER VDOT SPECIFICATION. CULVERT ENDS SHALL BE GRADED WITH POSITIVE DRAINAGE WITH SUFFICIENT EROSION AND SEDIMENT CONTROLS INSTALLED. PRIVATE ENTRANCE CULVERTS SHALL BE MAINTAINED FOR POSITIVE ROADSIDE DRAINAGE. ANY IMPACTED PRIVATE ENTRANCE CONCRETE APRONS SHALL BE REPLACED IN THEIR ENTIRETY.

11. THE CONTRACTOR SHALL PROTECT EXISTING PAVED SURFACES. ANY DAMAGED PAVEMENT SHALL BE REPAIRED TO MATCH EXISTING. TRACKED EQUIPMENT WILL NOT BE ALLOWED ON PAVED SURFACES. ANY PAVEMENT MARKINGS DAMAGED BY CONSTRUCTION SHALL BE REPLACED IN KIND BY A PAVEMENT MARKING CONTRACTOR FROM THE VDOT PRE–QUALIFICATION LIST.

12. ALL PROPERTY PINS, AND RIGHT OF WAY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LAND SURVEYOR LICENSED BY THE COMMONWEALTH OF VIRGINIA.

13. SURFACE DRAINAGE: COMPLETELY DRAIN CONSTRUCTION SITE DURING PERIODS OF CONSTRUCTION TO KEEP SOIL MATERIALS SUFFICIENTLY DRY. PROVIDE TEMPORARY DITCHES, SWALES, AND OTHER DRAINAGE FEATURES AND EQUIPMENT AS REQUIRED TO MAINTAIN DRY SOILS. WHEN UNSUITABLE WORKING PLATFORMS FOR EQUIPMENT OPERATION AND UNSUITABLE SOIL SUPPORT FOR SUBSEQUENT CONSTRUCTION FEATURES DEVELOP, REMOVE UNSUITABLE MATERIAL AND PROVIDE NEW SOIL MATERIAL AS SPECIFIED IN SPEC. SECTION 02200 AT NO ADDITIONAL COST TO THE OWNER.

14. SUBSURFACE DRAINAGE: CONSIDER SITE SURFACE AND SUBSURFACE CONDITIONS, AVAILABLE SOIL, AND HYDROLOGICAL DATA. REMOVE WATER BY BENCHING, SUMP PUMPING, DEEP WELL PUMPING, OR OTHER METHODS TO PREVENT SOFTENING OF SURFACES EXPOSED BY EXCAVATION. USE FILTERS ON DEWATERING DEVICES TO PREVENT REMOVAL OF FINES FROM SOIL. PROVIDE EROSION CONTROL AT OUTLET OR PIPING TO PREVENT EROSION. OPERATE DEWATERING SYSTEM CONTINUOUSLY UNTIL CONSTRUCTION WORK BELOW EXISTING WATER LEVELS IS COMPLETE.

15. VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) GENERAL PERMIT: PREPARE STORMWATER POLLUTION PREVENTION PLAN, SECURE VSMP SMALL CONSTRUCTION ACTIVITY LAND CLEARING GENERAL PERMIT AND PAY PERMIT APPLICATION FEE TO DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ).

16. PROVIDE A MINIMUM OF 18 INCHES CLEARANCE BETWEEN PIPING AND FOOTINGS, STRUCTURES, AND OTHER PIPING UNLESS OTHERWISE INDICATED.

17. CONSTRUCT EXCAVATION SUPPORT SYSTEMS AS REQUIRED BY OSHA AND U.S. ARMY CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL EM 385–1–1, SECTIONS 25 A THROUGH E TO ADEQUATELY SUPPORT EXISTING SOIL AND ADJACENT STRUCTURES DURING EXCAVATION ACTIVITIES.

18. BASED ON A VISUAL EXAMINATION OF FEMA FIRM MAP No. 51047C0226D FOR THE TOWN OF CULPEPER, DATED 2/26/2021. THIS SITE IS LOCATED IN ZONE 'X', AN AREA OF MINIMAL FLOOD HAZARD LYING OUTSIDE OF THE DESIGNATED 100–YEAR AND 500–YEAR FLOODPLAIN.

19. TREES AND SHRUBS TO BE REMOVED ARE INDICATED ON THE DRAWINGS. TREES TO REMAIN IN PLACE SHALL BE SCREENED OFF DURING GRADING OPERATIONS TO KEEP EQUIPMENT AWAY FROM ROOT SYSTEMS. THE CONTRACTOR SHALL MAKE SELECT CUTTING OF TREES, TAKING THE SMALLEST TREES FIRST, THAT ARE MANDATORY FOR THE CONSTRUCTION OF WATER IMPROVEMENTS. THE TOWN'S DECISION SHALL BE FINAL ON DETERMINATION OF WHICH TREES SHALL BE CUT.

20. ANY FENCING DISTURBED BY CONSTRUCTION SHALL BE IMMEDIATELY REPLACED OR SUPPLEMENTED BY TEMPORARY FENCING SUITABLE FOR INTENDED PURPOSE OF EXISTING FENCING. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE DISTURBED FENCING TO ORIGINAL CONDITION.

21. PROPOSED MANHOLE RIM ELEVATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL CONFIRM ACTUAL GRADE ELEVATIONS AND ADJUST RISERS TO SET RIMS TO FINISHED GRADE. MANHOLES NOT IN PAVEMENT SHALL BE LOCATED ABOVE THE DRAINAGE WAY OF DITCHES AND SHALL NOT ALLOW INTRUSION OF STORM WATER INTO MANHOLE COVERS.

22. ALL EXISTING DRAINAGE RELATED FEATURES WITHIN PUBLIC RIGHT OF WAY MUST BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF THE DRAINAGE FEATURES TO THE TOWN'S SATISFACTION. REGRADED DITCHES SHALL BE LINED WITH SOIL STABILIZATION BLANKETS/MATTING.

23. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM PROPERTY OWNERS FOR USE OF ANY ACCESS POINTS OTHER THAN ONES LOCATED WITHIN RIGHT–OF–WAYS. WRITTEN PERMISSION SHALL CONTAIN CONDITIONS FOR USE AND RESTORATION AGREEMENTS BETWEEN PROPERTY OWNER AND CONTRACTOR.

24. ALL TRENCHWORK SHALL BE BACKFILLED AT THE END OF EACH DAY. ALL PAVED AREAS OR SIDEWALKS SHALL BE MAINTAINED FREE OF ROCK AND DEBRIS. TEMPORARY PATCHING SHALL BE PROVIDED AS DEEMED NECESSARY BY THE TOWN.

25. ALL WATER AND SEWER UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF CULPEPER AND CULPEPER COUNTY WATER AND SEWER UTILITY STANDARDS MANUAL.

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22				
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22				
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
Lic. No. 12257
8-12-22
PROFESSIONAL ENGINEER

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA	SET REV. NO. 3
DRAWN BY: KTM		
DIHR BY: HFW	TITLE: GENERAL NOTES	DRAWING NUMBER: C–2
WWA NUMBER: 220047.01	FILE NAME: 004701C_ND–1.dwg; DISCIPLINE: CIVIL; SCALE: H: N/A V: N/A	DATE: 5/27/22

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ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	DI	DROP INLET	HB	HORIZONTAL BEND	NC	NORMALLY CLOSED	R/W	RIGHT OF WAY	UGT	UNDERGROUND TELEPHONE
AHD	AHEAD	DIA	DIAMETER	HC	HANDICAP	NF	NAIL FOUND	SAN	SANITARY SEWER	UGU	UNDERGROUND UTILITY
ARV	AIR RELEASE VALVE	DIP	DUCTILE IRON PIPE	HDPE	HIGH DENSITY POLYETHELENE	NO	NORMALLY OPEN	SBL	SOUTH BOUND LANE	UON	UNLESS OTHERWISE NOTED
BC	BACK OF CURB	EC	EDGE OF CONCRETE	HK	HOOK	NS	NAIL SET	SD	STORM DRAIN	VB	VERTICAL BEND
BF	BLIND FLANGE	EF	EACH FACE	HWL	HIGH WATER LEVEL	NIC	NOT IN CONTRACT	SDMH	STORM DRAIN MANHOLE	VHD	VEHICLES PER DAY
BFF	BASEMENT FINISHED FLOOR	EL	ELEVATION	ID	INNER DIAMETER	NTS	NOT TO SCALE	SL	SLUDGE	W	WATER
BM	BENCH MARK	ELEC	ELECTRIC	INV	INVERT	OC	ON CENTER	SQ	SQUARE	WAS	WASTE ACTIVATED SLUDGE
BK	BACK	EOG	EDGE OF GRAVEL	IPF	IRON PIPE FOUND	PE	POLYETHYLENE	S.S.	STAINLESS STEEL	WL	WATER LINE
BOV	BLOW OFF VALVE	EOP	EDGE OF PAVEMENT	IRF	IRON PIN FOUND	PF	PLANT FLOW	SSMH	SANITARY SEWER MANHOLE	WM	WATER METER
BW	BOTTOM OF WALL	EOTL	EDGE OF TRAVEL LANE	IRS	IRON PIN SET	PGL	PROFILE GRADE LINE	STA	STATION	WSE	WATER SURFACE ELEVATION
CATV	CABLE TELEVISION	EQPT	EQUIPMENT	JB	JUNCTION BOX	PP	POWER POLE	STD	STANDARD	WT	WATERTIGHT
CG	CURB & GUTTER	EW	EACH WAY	LAT	LATERAL	PROP	PROPOSED	STL	STEEL	WWF	WOVEN WIRE FABRIC
CIP	CAST IRON PIPE	EX OR EXIST	EXISTING	LF	LINEAR FEET	PRV	PRESSURE RELIEF VALVE	SW	SIDEWALK	WWTP	WASTE WATER TREATMENT PLANT
℄	CENTER LINE	FF	FINISHED FLOOR	LP	LAMP POST	PS	PLANTED STONE FOUND	TBA	TO BE ABANDONED	XING	CROSSING
CMP	CORRUGATED METAL PIPE	FH	FIRE HYDRANT	LT	LEFT	PVC	POLYVINYL CHLORIDE	TBR	TO BE REMOVED	YDS	YARDS
CO	CLEAN OUT	FM	FORCE MAIN	LWL	LOW WATER LEVEL	PVMT	PAVEMENT	TC	TOP OF CURB	YH	YARD HYDRANT
CONC	CONCRETE	FL	FLOURIDE	MF	MONUMENT FOUND	RAS	RETURN ACTIVATED SLUDGE	TSV	TAPPING SLEEVE AND VALVE		
COR	BOUNDARY LINE CORNER	FOC	FACE OF CURB	MH	MANHOLE	RCP	REINFORCED CONCRETE PIPE	TW	TOP OF WALL		
CPP	CORRUGATED PLASTIC PIPE	GALV	GALVANIZED	MJ	MECHANICAL JOINT	REQ'D	REQUIRED	TYP	TYPICAL		
CY	CUBIC YARDS	GV	GATE VALVE	NBL	NORTH BOUND LANE	RT	RIGHT	UG	UNDERGROUND		

EX	SYMBOL LEGEND	NEW
	AIR RELEASE VALVE	
	BENCHMARK/FFE	
	BLOW OFF VALVE	
	BOLLARD	
	BORE HOLE	
	BUILDING COLUMN	
	BUSH	
	CABLE BOX	
	CEMETERY	
	CONIFEROUS TREE	
	DECIDUOUS TREE	
	DRAINAGE INLET GRATE	
	DRILL HOLE	
	ELECTRIC METER BOX	
	ELECTRIC PANEL BOX	
	ELECTRIC PEDESTAL	
	ELECTRIC MAN HOLE	
	FIRE DEPARTMENT CONNECTION	
	FIRE HYDRANT	
	FLAG POLE	
	GAS MAN HOLE	
	GAS METER	
	GAS VALVE	
	GENERATOR	
	GROUND LIGHT	
	GUY POLE	
	HANDICAPPED PARKING	
	HEAT PUMP	
	IRON PIN	
	LIGHT POLE	
	MAILBOX	
	MONITORING WELL	
	MONUMENT FOUND	
	MONUMENT SET	

EX	SYMBOL LEGEND	NEW
	PANEL POINT	
	POWER METER	
	POWER POLE	
	ROAD SIGN	
	SANITARY CLEAN OUT	
	SANITARY SEWER MAN HOLE	
	SIGN	
	SPRINKLER HEAD	
	STORM DRAIN MAN HOLE	
	TRAFFIC LIGHT POLE	
	TELEPHONE MAN HOLE	
	TELEPHONE PEDESTAL	
	TELEPHONE POLE	
	TELEPHONE JUNCTION BOX	
	TEST PIT	
	TRAFFIC CONTROL BOX	
	TRAFFIC JUNCTION BOX	
	TRAVERSE	
	UTILITY MARKER POST	
	UTILITY POLE	
	VENT PIPE	
	WATER MAN HOLE	
	WATER METER	
	WATER SURFACE ELEVATION	
	WATER VALVE	
	WELL	
	YARD GRATE	

EXISTING	LINETYPE LEGEND	NEW
	BUILDING OVERHEAD	
	ADJACENT PROPERTY LINE	
R/W	ADJACENT RIGHT-OF-WAY	R/W
BOB	BOTTOM OF BANK	BOB
	BOUNDARY PROPERTY LINE	
R/W	BOUNDARY RIGHT-OF-WAY	R/W
	BUILDING SETBACK	
	BUSH LINE	
OHCT OHCT	CATV OVERHEAD	
UGCT UGCT UGCT	CATV UNDERGROUND	
OHT OHT	TELEPHONE OVERHEAD	OHT OHT
UGT UGT UGT	TELEPHONE UNDERGROUND	UGT UGT UGT
	DITCH CENTER LINE	
	EASEMENT – CONSTRUCTION AND GRADING	
	EASEMENT – SLOPE	
	EASEMENT – SANITARY SEWER	
	EASEMENT – STORM	
	EASEMENT – STORMWATER MANAGEMENT	
	EASEMENT – UTILITIES	
	EASEMENT – WATER	
OHE OHE	ELECTRIC OVERHEAD	
UGE UGE	ELECTRIC UNDERGROUND	UGE UGE
	FENCE BARBED WIRE	
	FENCE CHAIN LINK	
	FENCE WOOD	
	FENCE WOVEN WIRE	
FP	FLOOD PLAIN	
GAS GAS	GAS UNDERGROUND	
	GRAVEL	
	GUARD RAIL	
	PAVEMENT ASPHALT	

EXISTING	LINETYPE LEGEND	NEW
	RAILROAD CENTERLINE	
	ROAD CENTERLINE	
FM FM	SANITARY FORCEMAIN	FM
SAN SAN	SANITARY SEWER	SAN
DRN	SANITARY SEWER DRAIN	DRN
SL	SLUDGE	SL
	STORM SEWER	
	STREAM CENTERLINE	
TOB	TOP OF BANK	TOB
	TOPO MAJOR CONTOUR	
	TOPO MINOR CONTOUR	
	TREELINE	
OHU OHU	UTILITY OVERHEAD	OHU OHU
UGU UGU	UTILITY UNDERGROUND	UGU UGU
WAS	WASTE ACTIVATED SLUDGE	WAS
MHW MHW	WATER LEVEL ELEVATION – MEAN HIGH WATER	
MLW MLW	WATER LEVEL ELEVATION – MEAN LOW WATER	
W W W	WATER LINE	W W W
D D D	WATER LINE – DRAIN	D D D

NOTES:

1. THE SIZE OF LEGEND SYMBOLS MAY VARY FROM THOSE AS SHOWN ON PLANS.
2. SOME SYMBOLS, ABBREVIATIONS AND LINETYPES MAY NOT BE REPRESENTED ON PLANS.

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COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
LICENSING 12257
PROFESSIONAL ENGINEER
8-12-22

ENGINEERS SURVEYORS PLANNERS
ASSOCIATES
PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: ABBREVIATIONS AND LEGEND		DRAWING NUMBER: C-3
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_ND-2.dwg	DISCIPLINE: CIVIL	SCALE: H: N/A V: N/A
			DATE: 5/27/22

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C:\Work From Home\Projects\AutoCad (N)\220047 Town of Culpeper - Pedestrian Bridge Project\220047.01 Bridge Restroom Facility\0047010_EX-1.dwg

NOTES:

1. EXISTING CONDITIONS SHOWN REFLECT PROPOSED PARKING LOT IMPROVEMENTS SHOWN ON PLANS ENTITLED "CULPEPER STATION, EAST SPENCER STREET IMPROVEMENTS, TOWN OF CULPEPER, VIRGINIA". THIS WORK HAS NOT BEEN PERFORMED.
2. LANDSCAPING TREES AND OTHER ITEMS FROM PLANS ENTITLED "CULPEPER STTAION, EAST SPENCER STREET IMPROVEMENTS, TOWN OF CULPEPER, VIRGINIA" ARE NOT SHOWN ON THESE DRAWINGS. SEE REFERENCED PLANS FOR LOCATIONS OF LANDSCAPING.

DEMOLITION NOTES:

1. DEMOLITION AND CONSTRUCTION OF STRUCTURES, UTILITIES, AND APPURTENANCES SHALL BE AT THE DIRECTION OF THE OWNER AND SHALL BE PERFORMED BY QUALIFIED PERSONNEL, LICENSED AND INSURED TO PERFORM DEMOLITION WORK SHOWN. WORK NECESSARY TO STRUCTURALLY SUPPORT OR UNDERPIN EXISTING STRUCTURES SHALL BE DIRECTED BY A QUALIFIED STRUCTURAL ENGINEER.
3. CONTRACTOR SHALL WALK THE SITE AND BE FAMILIAR WITH THE SCOPE OF DEMOLITION REQUIRED. ALL DEMOLITION WORK REQUIRED TO CONSTRUCT THE IMPROVEMENTS WILL BE PERFORMED BY THE CONTRACTOR.
4. PRIOR TO GRADING OPERATIONS, CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND SERVICES TO INCLUDE BUT NOT LIMITED TO ELECTRIC, CABLE, TELEPHONE, GAS, SANITARY SEWER, SEPTIC TANKS, DRAIN FIELDS, WATER AND STORM DRAIN AND SHALL COORDINATE PROPER PROTECTION, DEMOLITION, RELOCATION AND/OR ABANDONMENT WITH APPROPRIATE OWNER/UTILITY COMPANY.
5. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF EXISTING APPURTENANCES AND VEGETATION/TREES CLEARED AND STRIPPED (AS DIRECTED BY THE SOILS ENGINEER) AND OTHER INCIDENTAL DEMOLITION TO THE EXTENT NECESSARY WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS FOR THE INSTALLATION OF NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CONSTRUCTION.
6. THE CONTRACTOR SHALL PROTECT ALL PROPERTY, STRUCTURES, AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO THE PROPERTY DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND FIRE HYDRANTS, AND STORM DRAINAGE UTILITIES THAT SERVICE ADJACENT FACILITIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS.
8. ALL DEMOLITION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AS WELL AS VIRGINIA DEPARTMENT OF HEALTH AND OSHA REGULATIONS.
9. CONTRACTOR'S ACTIVITIES SHALL NOT IMPEDE USAGE OR INGRESS/EGRESS TO ADJACENT USES OR FACILITIES. COORDINATE WITH OWNER MAINTENANCE OF TRAFFIC/PEDESTRIAN CIRCULATION DURING CONSTRUCTION.
10. YARD INLET GRATE TO BE DEMOLISHED. DRAIN PIPE TO BE REMOVED AS NECESSARY FOR NORTH TOWER FOOTING EXCAVATION. REMAINING EXISTING DRAIN PIPE TO BE LEFT IN PLACE FOR FUTURE USE.
11. RAIL FENCING SHALL BE DEMOLISHED TO EXTENTS SHOWN PRIOR TO CONSTRUCTION AND REPLACED IN KIND UPON COMPLETION OF CONSTRUCTION.
12. THE EXISTING OVERHEAD ELECTRIC LINE CROSSING THE NEW BRIDGE TO BE RELOCATED BY THE OWNER.

LEGEND

= AREAS TO BE DEMOLISHED

= EXISTING FEATURE TO BE DEMOLISHED

= SOIL BOUNDARY

IF THIS DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED

SCALE: 1" = 10'

10' 0 10'

NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

COMMONWEALTH OF VIRGINIA
HERBERT E WHITE, III
REGISTRATION NO. 12251
PROFESSIONAL ENGINEER
8-12-22

WW ENGINEERS SURVEYORS PLANNERS ASSOCIATES
PO Box 4139 Lynchburg, VA 24502 Phone: 434.316.6080
968 Oltopsia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
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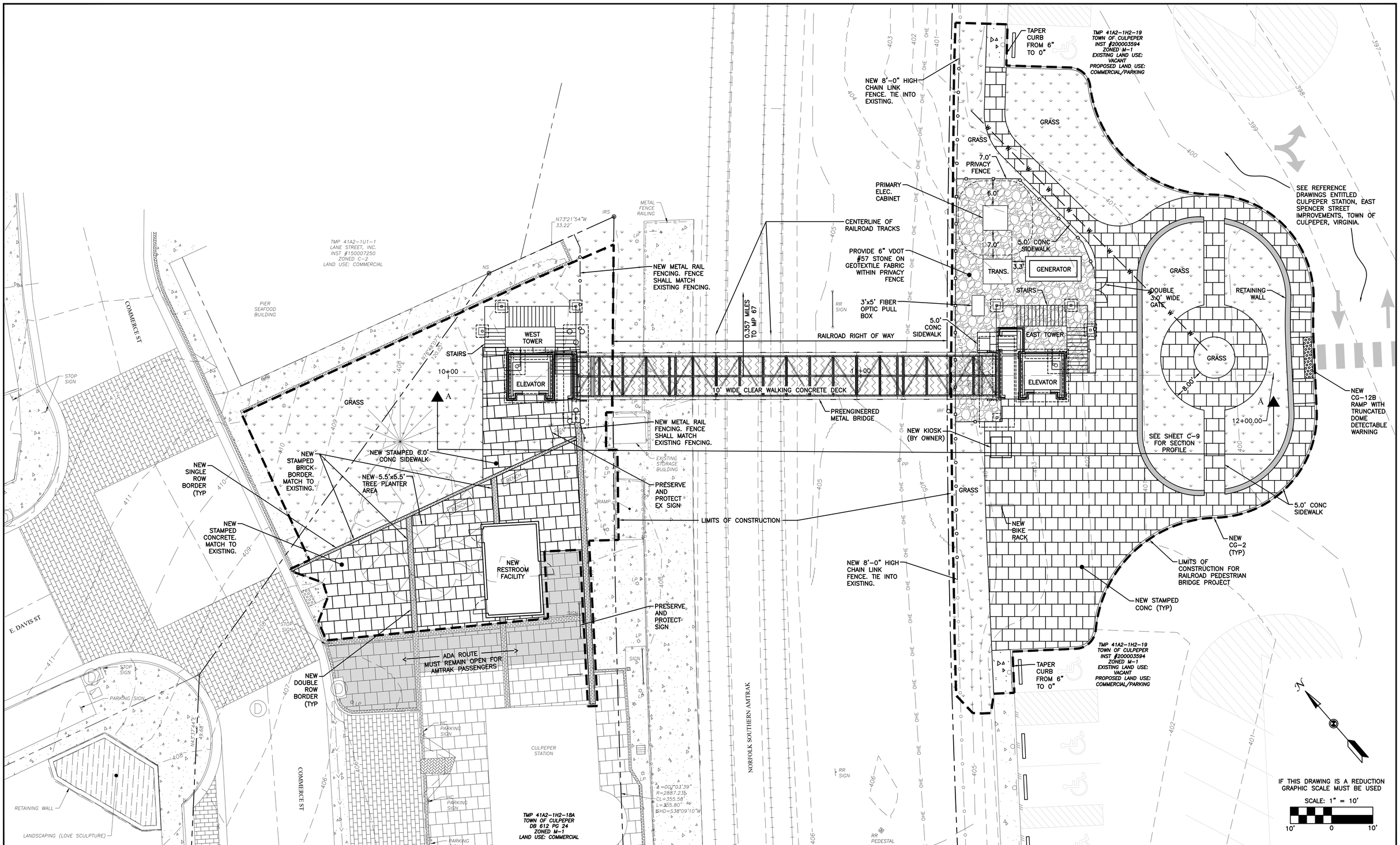
DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: EXISTING CONDITONS AND DEMOLITION PLAN		DRAWING NUMBER: C-4
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_EX-1.dwg	DISCIPLINE: CIVIL	SCALE: H: 1"=10' V: N/A
			DATE: 5/27/22



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1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
REG. NO. 122574
PROFESSIONAL ENGINEER
8-12-22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: SITE PLAN		DRAWING NUMBER: C-5
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_SP-1.dwg	DISCIPLINE: CIVIL	SCALE: H: 1"=10' V: N/A
			DATE: 5/27/22

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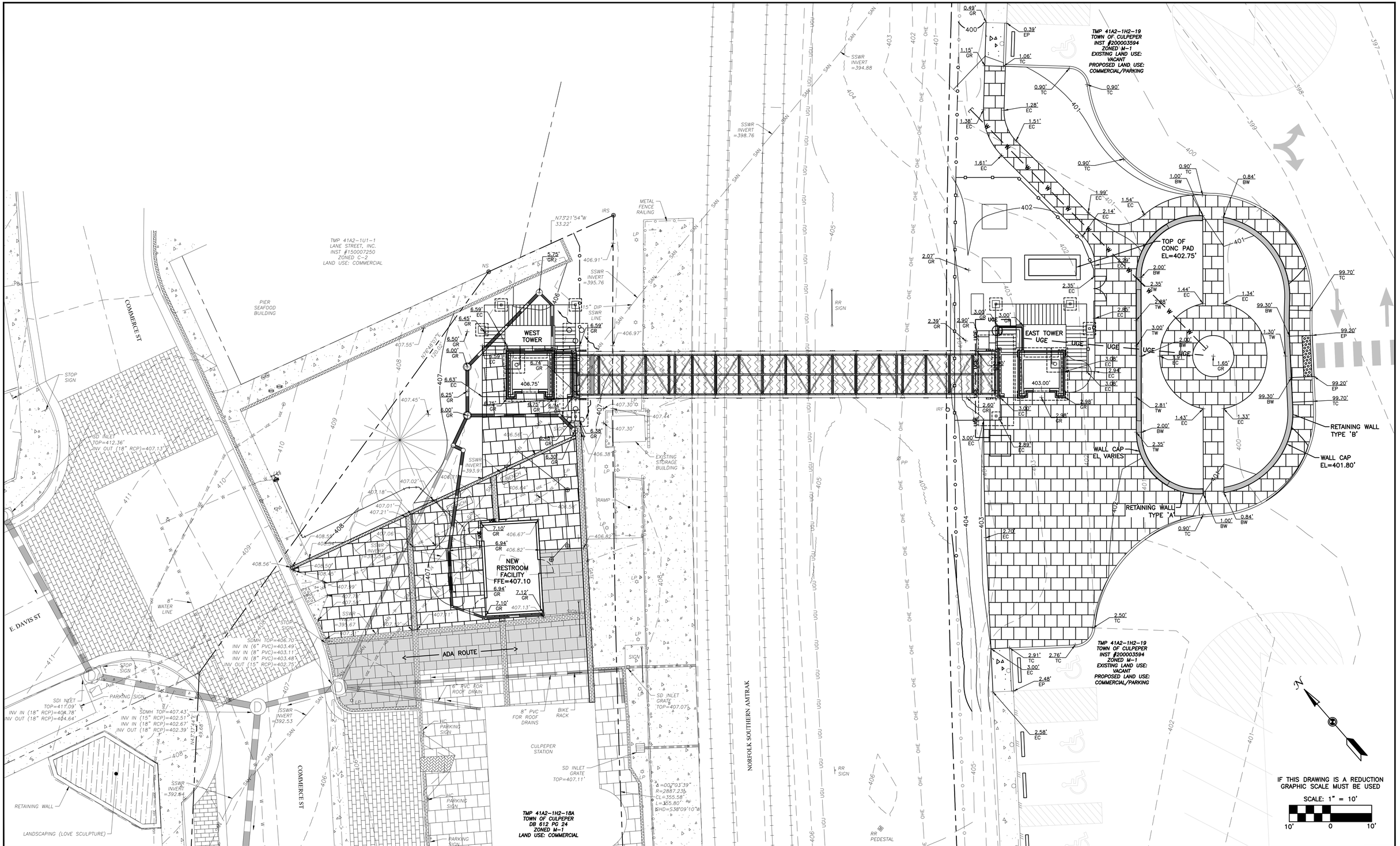

NO.	SHEET REVISION	BY	DATE
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3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

COMMONWEALTH OF VIRGINIA
HERBERT F WHITE, III
LICENSING 12257
PROFESSIONAL ENGINEER
8-12-22

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DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: GRADING PLAN		DRAWING NUMBER: C-6
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_GP-1.dwg	DISCIPLINE: CIVIL	SCALE: H: 1"=10' V: N/A
			DATE: 5/27/22

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6" ROOF DRAIN LEADER AT 1% MIN SLOPE. CONNECT DOWNSPOUTS WITH BOOT CONNECTOR.
SUMP PUMP DISCHARGE
PROVIDE SUMP PUMP WITH DISCHARGE PIPING IN ELEVATOR PIT. SEE DETAIL ON DRAWING C-12.
TYPICAL WATER SERVICE CONNECTION (SEE DETAIL DRAWING NO. C-9)
RELOCATE UGE. PROVIDE NEW CONDUIT, WIRING, AND APPURTENANCES.
NEW STORM DRAIN-3
NEW 45' HB
NEW 22.5' HB
NEW STORM DRAIN-1
NEW STORM DRAIN-2
NEW 1" WATER SERVICE LATERAL
NEW WATER METER
NEW 90' HB
NEW CO
NEW RESTROOM FACILITY
NEW 10 LF SLOT DRAIN
NEW 4" SANITARY SEWER LATERAL
NEW 2" COMMUNICATIONS CONDUIT (BURIED)
ADA ROUTE
WEST TOWER
EAST TOWER
CONCRETE GENERATOR PAD (COORDINATE DIMENSIONS WITH GENERATOR)
FIBER OPTIC PULL BOX
NEW 2" COMMUNICATIONS CONDUIT ROUTED TO FIBER OPTIC PULL BOX
NEW 2" COMMUNICATIONS CONDUIT STRAPPED TO BRIDGE
CONTRACTOR SHALL PROVIDE 1-2" COMMUNICATIONS CONDUIT AND 1-2" ELECTRIC CONDUIT FOR OWNER INSTALLED KIOSK. TERMINATE CONDUITS AT FIBER OPTIC PULL BOX AND ELECTRIC PANEL LVA IN EAST TOWER ELECTRIC ROOM AS SHOWN.
NEW KIOSK (BY OWNER)
4" CONDUIT WITH 1" WATER LINE FOR FUTURE FOUNTAIN
CONTRACTOR SHALL PROVIDE 2" ELECTRIC CONDUIT FOR FUTURE FOUNTAIN. TERMINATE CONDUIT AT PANEL LVA IN EAST TOWER ELECTRIC ROOM.
TMP 41A2-1H2-19 TOWN OF CULPEPER INST #200003594 ZONED M-1 EXISTING LAND USE: VACANT PROPOSED LAND USE: COMMERCIAL/PARKING
TMP 41A2-1U1-1 LANE STREET, INC. INST #150007250 ZONED C-2 LAND USE: COMMERCIAL
TMP 41A2-1H2-18A TOWN OF CULPEPER DB 612 PG 24 ZONED M-1 LAND USE: COMMERCIAL
PIER SEAFOOD BUILDING
COMMERCE ST
E. DAVIS ST
NORFOLK SOUTHERN AMTRAK
CULPEPER STATION
EXISTING STORAGE BUILDING
RETAINING WALL
LANDSCAPING (LOVE SCULPTURE)

NOTE:

1. PROVIDE CONCRETE SPLASH BLOCK FOR ALL DOWNSPOUT AND SUMP PUMP DISCHARGES UNLESS DOWNSPOUTS ARE NOTED TO BE CONNECTED TO YARD DRAIN SYSTEM.

IF THIS DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED

SCALE: 1" = 10'

10' 0 10'

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COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
Lic. No. 17257
8-12-22
PROFESSIONAL ENGINEER

WW ENGINEERS SURVEYORS PLANNERS ASSOCIATES

DESIGNED BY: SAR
DRAWN BY: KTM
CHKD BY: HFW
WWA NUMBER: 220047.01

PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA

TITLE: SITE UTILITIES AND DRAINAGE PLAN

FILE NAME: 004701C_UTIL-1.dwg
DISCIPLINE: CIVIL
SCALE: H: 1"=10' V: N/A

SET REV. NO. 3
DRAWING NUMBER: C-7
DATE: 5/27/22

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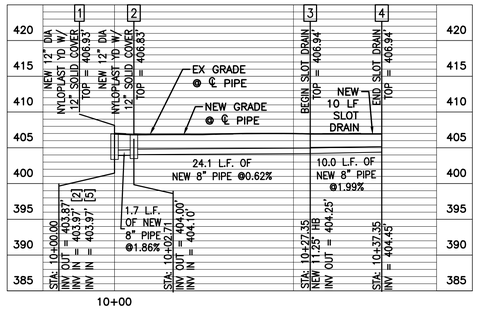
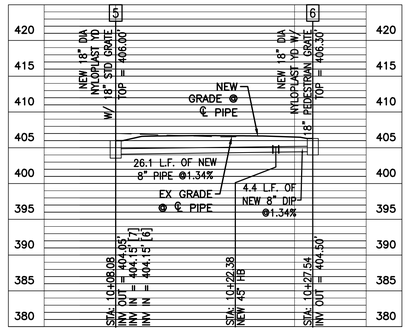
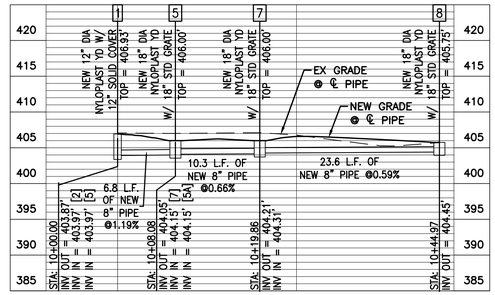


PROFILE VIEW
NEW STORM DRAIN-1



PROFILE VIEW
NEW STORM DRAIN-2



PROFILE VIEW
NEW STORM DRAIN-3

STORM SEWER DESIGN COMPUTATIONS

WWA PROJECT NUMBER 220006.00
COUNTY Culpeper DISTRICT
DESCRIPTION Pedestrian Bridge
SHEET 1 OF 1

FROM POINT	TO POINT	AREA DRAIN "A"	RUN-OFF COEF	CA		INLET TIME (Tc)	RAIN FALL (I_{10})	RUNOFF Q	INVERT ELEVATIONS		LENGTH	SLOPE	DIA	MANNING's n	CAPA-CITY (FULL)	VEL (FULL)	FLOW TIME	REMARKS	TOP INLET ELEVATIONS	INLET DEPTH (H)	INLET No.
		ACRES	C	INCRE-MENT	ACCUM-ULATED	MIN	IN/HR	CFS	UPPER END	LOWER END	FT	FT/FT	IN		CFS	FPS	SEC		FT	FT	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
8	7	0.045	0.60	0.03	0.03	5.00	6.8	0.18	404.45	404.31	23.60	0.0059	8	0.011	1.10	3.2	7.5	YD-8, RD-1	405.75	1.30	8
7	5	0.020	0.65	0.01	0.04	5.12	6.7	0.27	404.21	404.15	10.30	0.0058	8	0.011	1.09	3.1	3.3	YD-7	406.00	1.79	7
6	5	0.060	0.90	0.05	0.05	5.00	6.8	0.37	404.50	404.15	26.10	0.0134	8	0.011	1.66	4.8	5.5	YD-6	406.30	1.80	6
5	1	0.040	0.40	0.02	0.11	5.18	6.7	0.74	404.05	403.97	6.80	0.0118	8	0.011	1.55	4.4	1.5	YD-5	406.00	1.95	5
4	3	0.040	0.90	0.04	0.04	5.00	6.8	0.24	404.45	404.25	10.00	0.0200	8	0.011	2.03	5.8	1.7	SLOT Drain 3-4, RD-2	406.94	2.49	4
3	2	0.000	0.00	0.00	0.04	5.03	6.8	0.24	404.25	404.10	24.10	0.0062	8	0.011	1.13	3.2	7.4	No Inlet	406.94	2.69	3
2	1	0.000	0.00	0.00	0.04	5.15	6.7	0.24	404.00	403.97	1.70	0.0176	8	0.011	1.90	5.4	0.3	No Inlet	406.20	2.20	2
1	Ex SD MH	0.00	0.00	0.00	0.15	5.20	6.7	0.98	403.87	403.11	62.30	0.0122	8	0.011	1.58	4.5	13.7	No Inlet	406.32	2.45	1
ROOF DRAIN LEADER SIZING																					
RD-1		0.005	0.90	0.00	0.00	5.00	6.8	0.03				0.0050	6	0.011	0.47	2.4	0.0	RD-1			
RD-2		0.01	0.90	0.01	0.01	5.00	6.8	0.06				0.0050	6	0.011	0.47	2.4	0.0	RD-2			

Table 6: Sump Inlet Design Table

SUMP INLET DESIGN (ASSUMES INLET 50% CLOGGED)

Inlet		Hydrology						Inlet			
Plan Label	Grate Type	A, Drainage area (acres)	C, rational coeff.	CA	Tc, Inlet Time (min)	I_{10}, Intensity (in/hr)	Q_{10}, flow incr. (cfs)	Side Slope (ft/ft)	d, ponding depth (ft)	T, spread at inlet (ft)	Remarks
5	Nyloplast 18" Standard	0.04	0.40	0.016	5.00	6.8	0.11	0.33	0.06	1.86	OK
6	Nyloplast 18" Standard	0.06	0.90	0.054	5.00	6.8	0.37	0.33	0.15	2.41	OK
7	Nyloplast 18" Standard	0.02	0.65	0.013	5.00	6.8	0.09	0.33	0.05	1.80	OK
8	Nyloplast 18" Standard	0.04	0.60	0.024	5.00	6.8	0.16	0.33	0.08	1.98	OK

SLOT DRAIN DESIGN
100% CAPACITY=0.046 CFS/FT
CALCULATION CAPACITY (ASSUMES 50% CLOGGED)=0.023 CFS/FT

Inlet		Hydrology						Inlet		
Plan Label	Grate Type	A, Drainage area (acres)	C, rational coeff.	CA	Tc, Inlet Time (min)	I_{10}, Intensity (in/hr)	Q_{10}, flow incr. (cfs)	Length of Slot Drain (ft)	cfs/ft	Remarks
3-4	ADS Duraslot w ith ADA Grating	0.03	0.90	0.027	5.00	6.8	0.18	10.00	0.018	OK

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HORZ: 1" = 10'
10' 0 10'
10' 0 10'
VERT: 1" = 10'

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COMMONWEALTH OF VIRGINIA
HERBERT E. WHITE, III
LICENSE NO. 42257
PROFESSIONAL ENGINEER
8-12-22

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DESIGNED BY: SAR
DRAWN BY: KTM
DIHR BY: HFW
WWA NUMBER: 220047.01

PROJECT: CULPEPER STATION
RAILROAD PEDESTRIAN BRIDGE
TOWN OF CULPEPER, VIRGINIA

TITLE: STORM DRAINAGE PROFILES AND CALCULATIONS

FILE NAME: 004701C_PP-1.dwg
DISCIPLINE: CIVIL
SCALE: H: 1"=10' V: 1"=10'

SET REV. NO. 3
DRAWING NUMBER: C-8
DATE: 5/27/22

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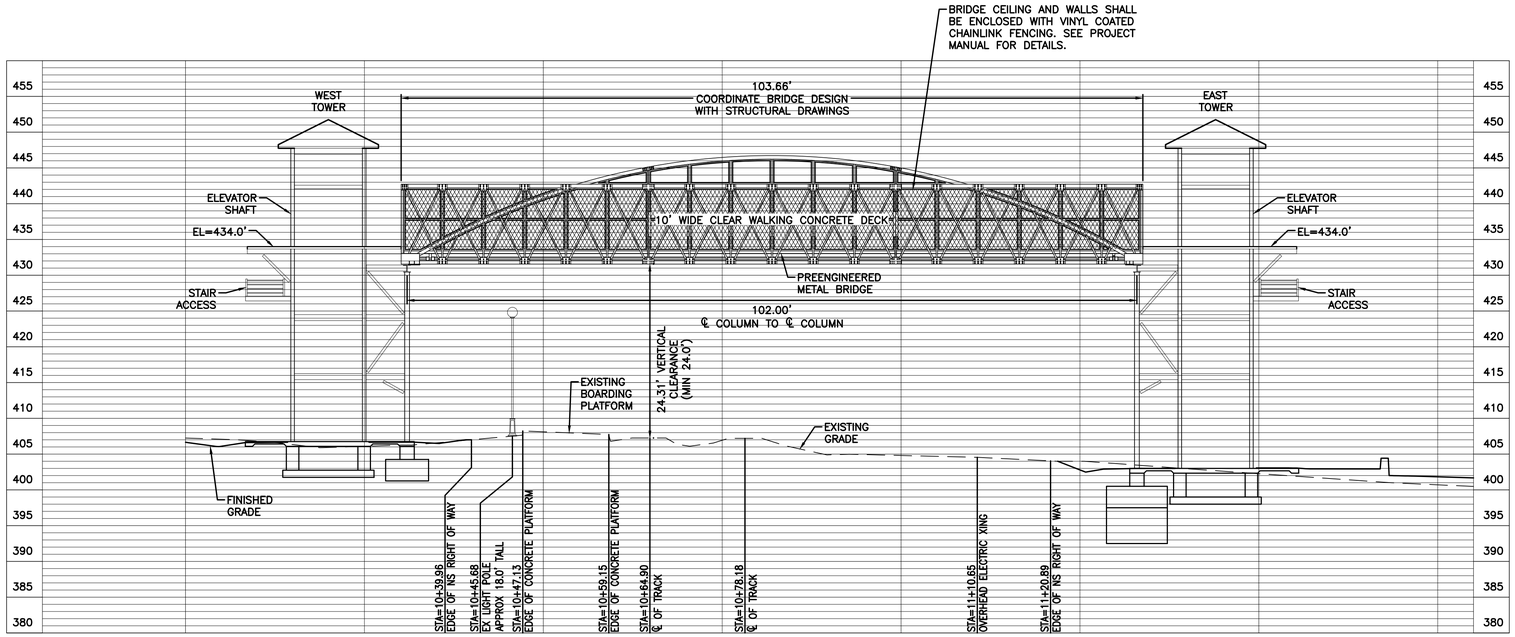

PROFILE VIEW
SECTION A-A

IF THIS DRAWING IS A REDUCTION
GRAPHIC SCALE MUST BE USED

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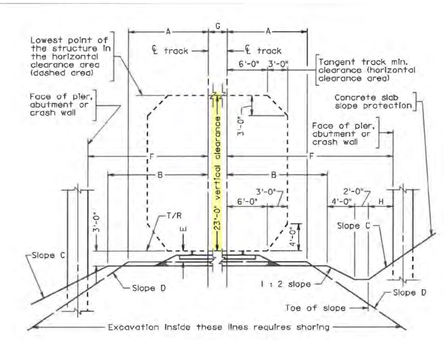
10' 0 10'

10' 0 10'

VERT: 1" = 10'



SECTIONS PERPENDICULAR TO TRACK

DIMENSION TABLE

	Norfolk Southern Railway
A	14'-0"
B	14'-0" (18'-0" with maintenance road)
Slope C	1 : 2
Slope D	1 : 2
E	3'-7¼"
F	22'-0" (26'-0" with maintenance road)
G	14'-0"
H	2'-0"

NORFOLK SOUTHERN RAILWAY
TYPICAL SECTION DETAIL

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LICENSING 12257
PROFESSIONAL ENGINEER
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DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: PEDESTRIAN BRIDGE SECTION AND DETAILS		DRAWING NUMBER: C-9
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_DET-1.dwg	DISCIPLINE: CIVIL	SCALE: H: AS SHOWN V: AS SHOWN
			DATE: 5/27/22

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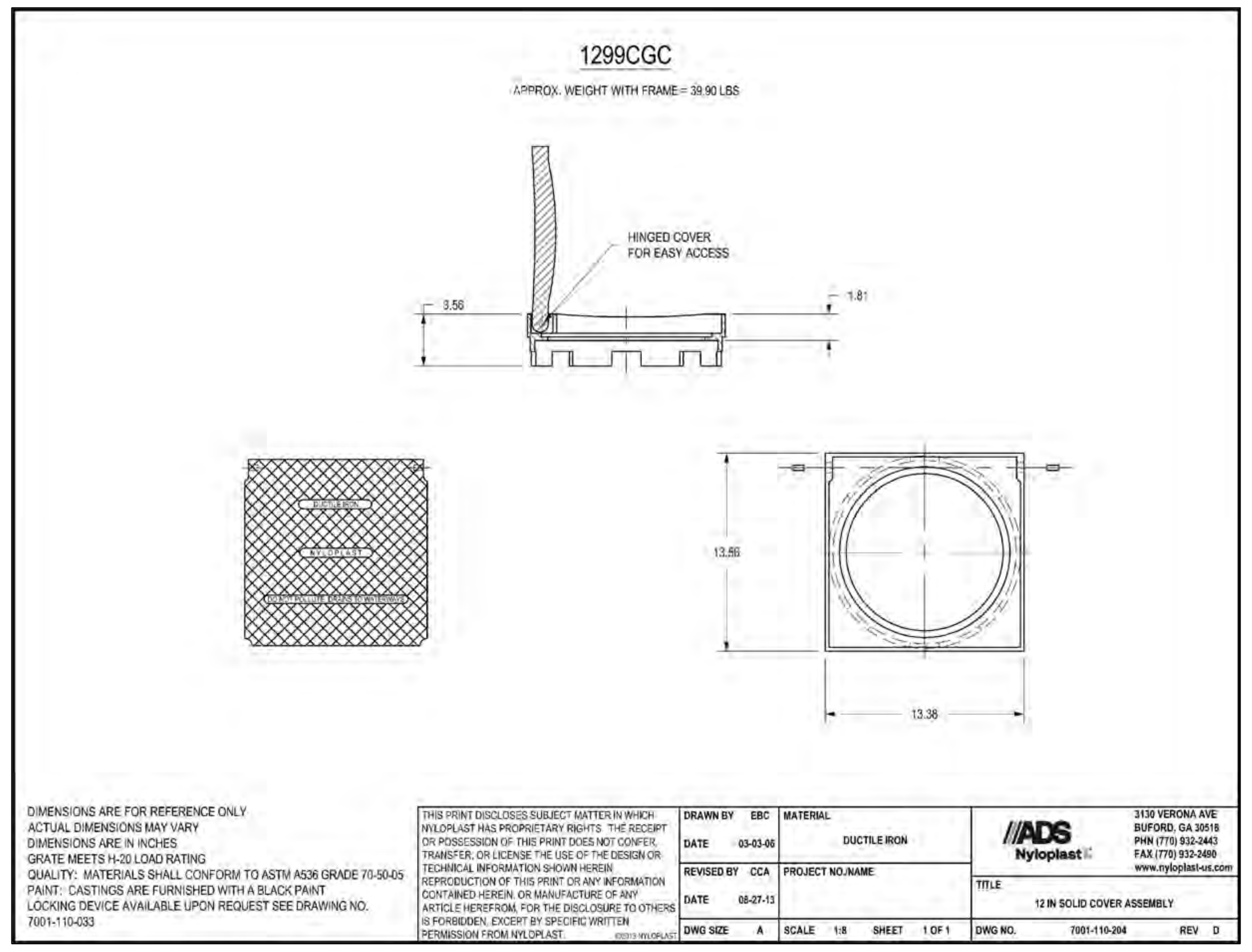
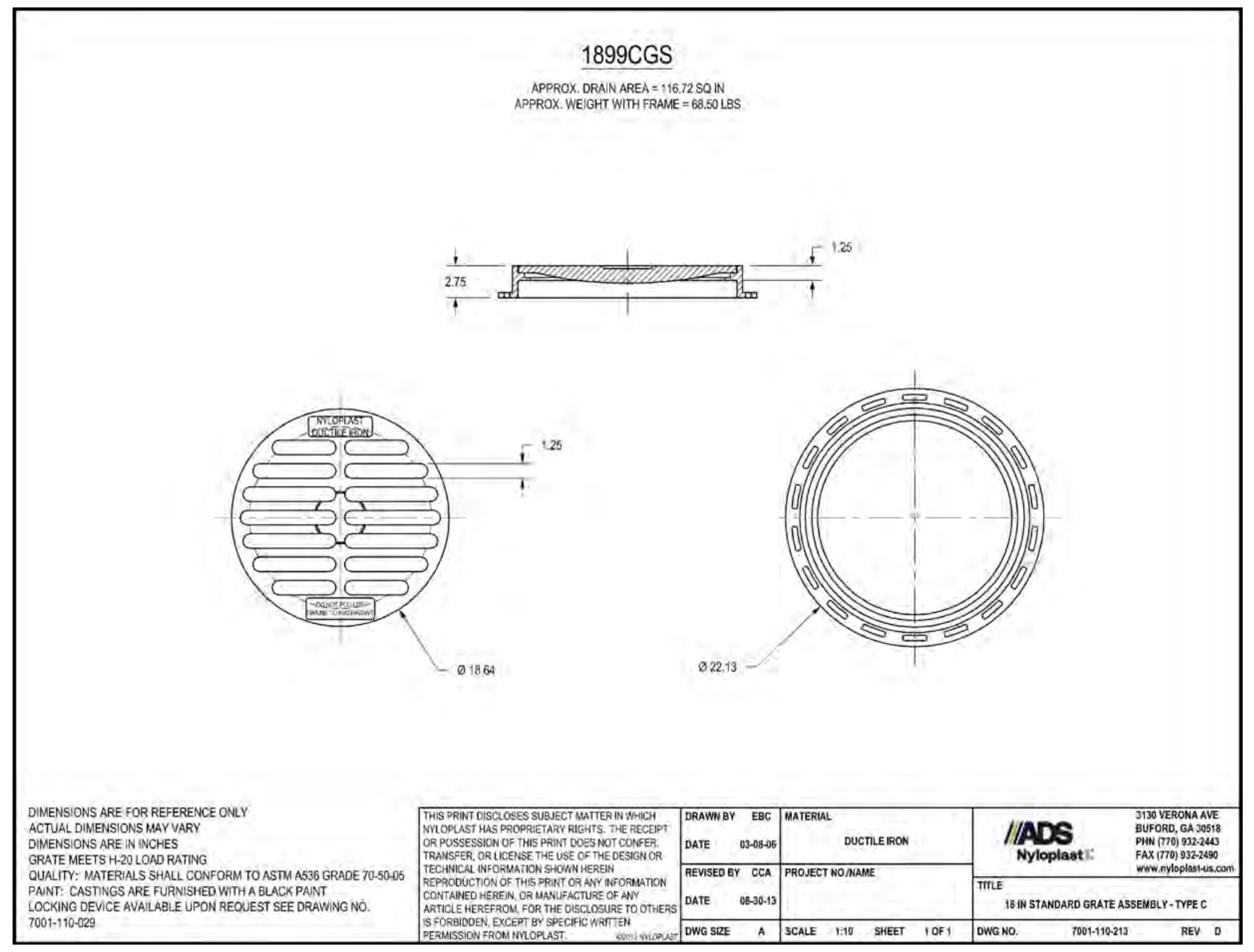
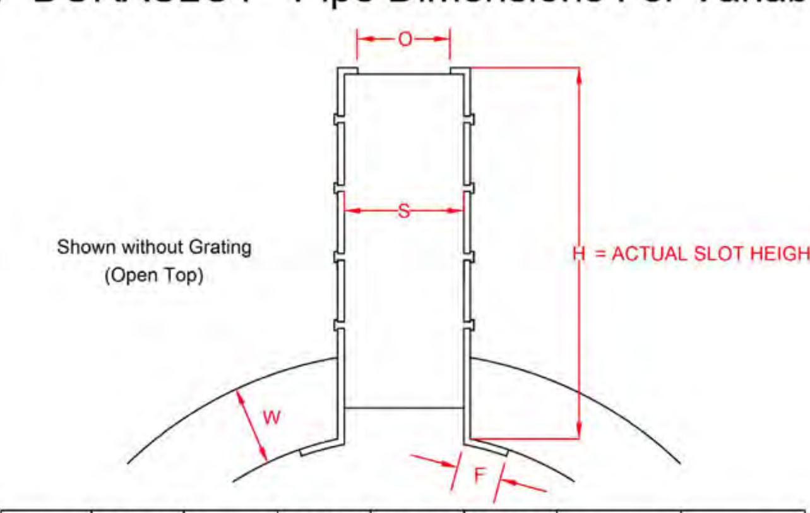


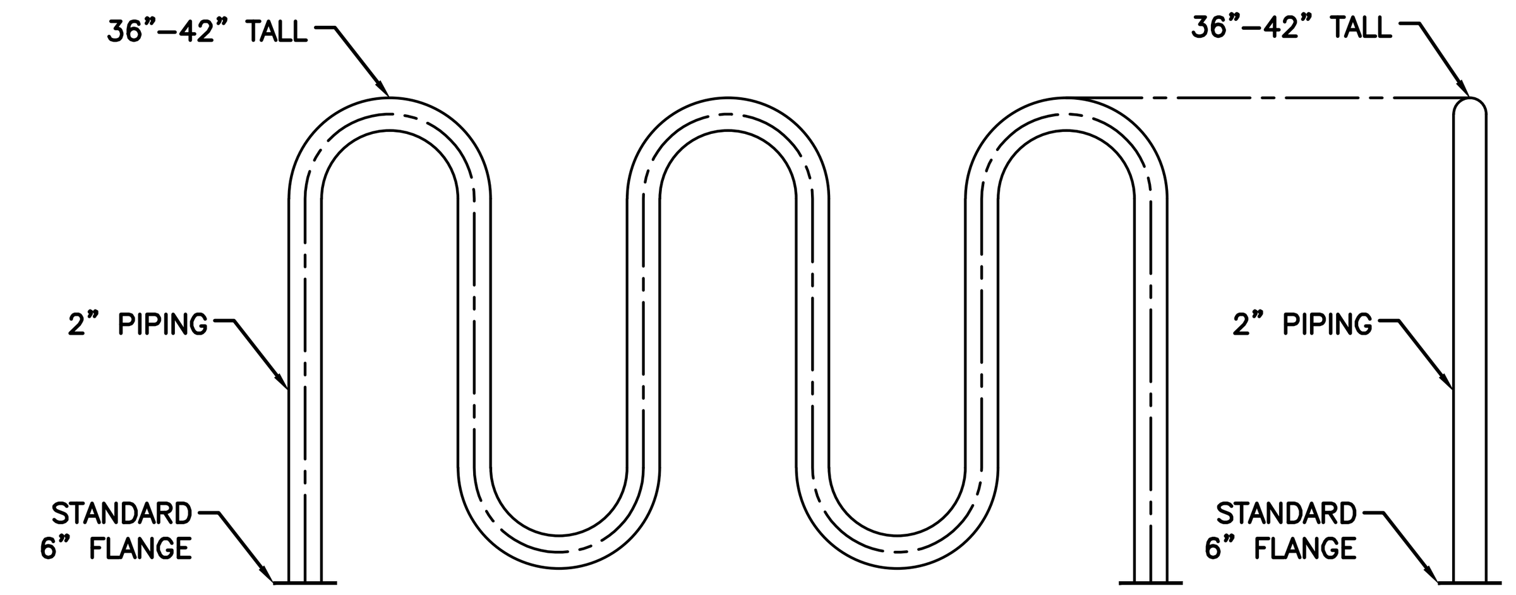


6"-24" DURASLOT® Pipe Dimensions For Variable Slot Riser

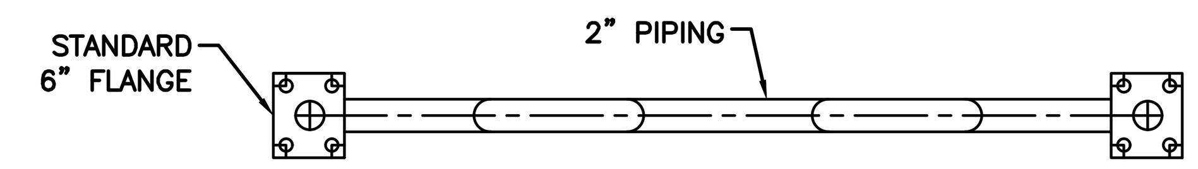


PIPE DIAM.	PIPE WALL (W)	FLANGE WIDTH (F)	SLOT OPENING (O)	THROAT SIZE (S)	SLOT HEIGHT (H)	PRODUCT # (Grated)	PRODUCT # (Open Top)
6" (150mm)	0.5" (13mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	Varies*	0690DS	0690DSOT
8" (200mm)	0.625" (16mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	Varies*	0890DS	0890DSOT
10" (250mm)	0.75" (19mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	Varies*	1090DS	1090DSOT
12" (300mm)	1.125" (29mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	Varies*	1290DS	1290DSOT
15" (375mm)	1.25" (32mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	Varies*	1590DS	1590DSOT
18" (450mm)	1.25" (32mm)	0.75" (19mm)	1.75" (44mm)	2.25" (57mm)	Varies*	1890DS	1890DSOT
24" (600mm)	1.875" (48mm)	1.0" (25mm)	1.75" (44mm)	2.25" (57mm)	Varies*	2490DS	2490DSOT

NOTE: Slot Heights to conform to dimensions on project plans. 'H' at ends of each length of DURASLOT® to be detailed on Slot Dimensions Layouts for approval before production.



WAVE/LOOP BIKE RACK SECTION
NOT TO SCALE

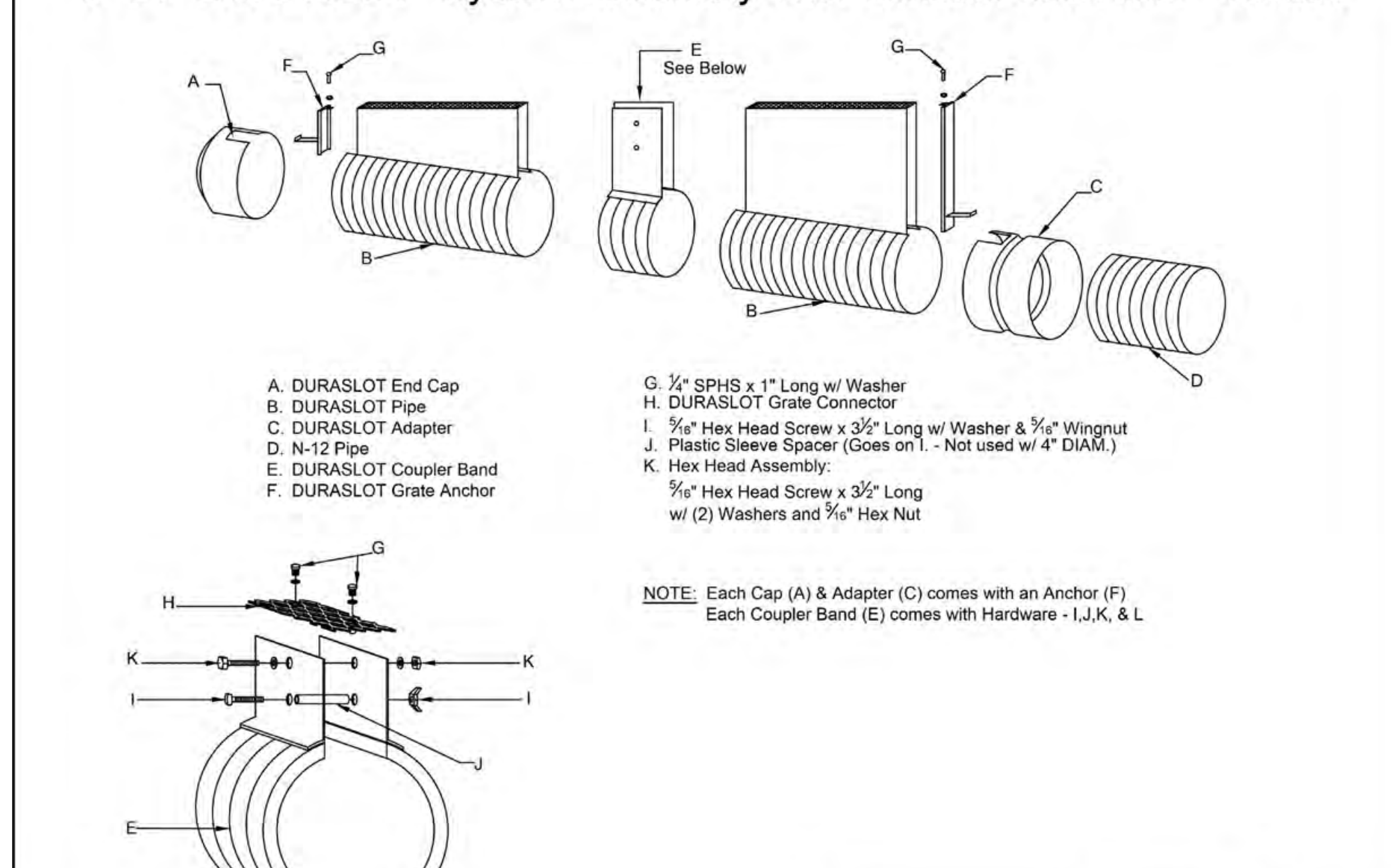


WAVE/LOOP BIKE RACK PLAN
NOT TO SCALE

NOTES:

1. BIKE RACK SHALL ACCOMMODATE 5–7 BIKES.
2. BIKE RACK SHALL BE FLANGE MOUNTED ON CONCRETE PAD. INSTALL PER MANUFACTURERS INSTRUCTIONS.

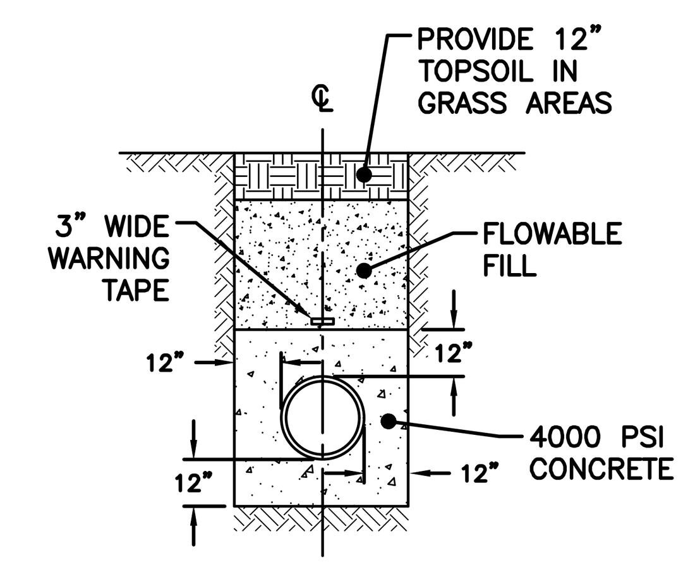
6"-24" DURASLOT® System Assembly With Variable Slot Riser - Grated



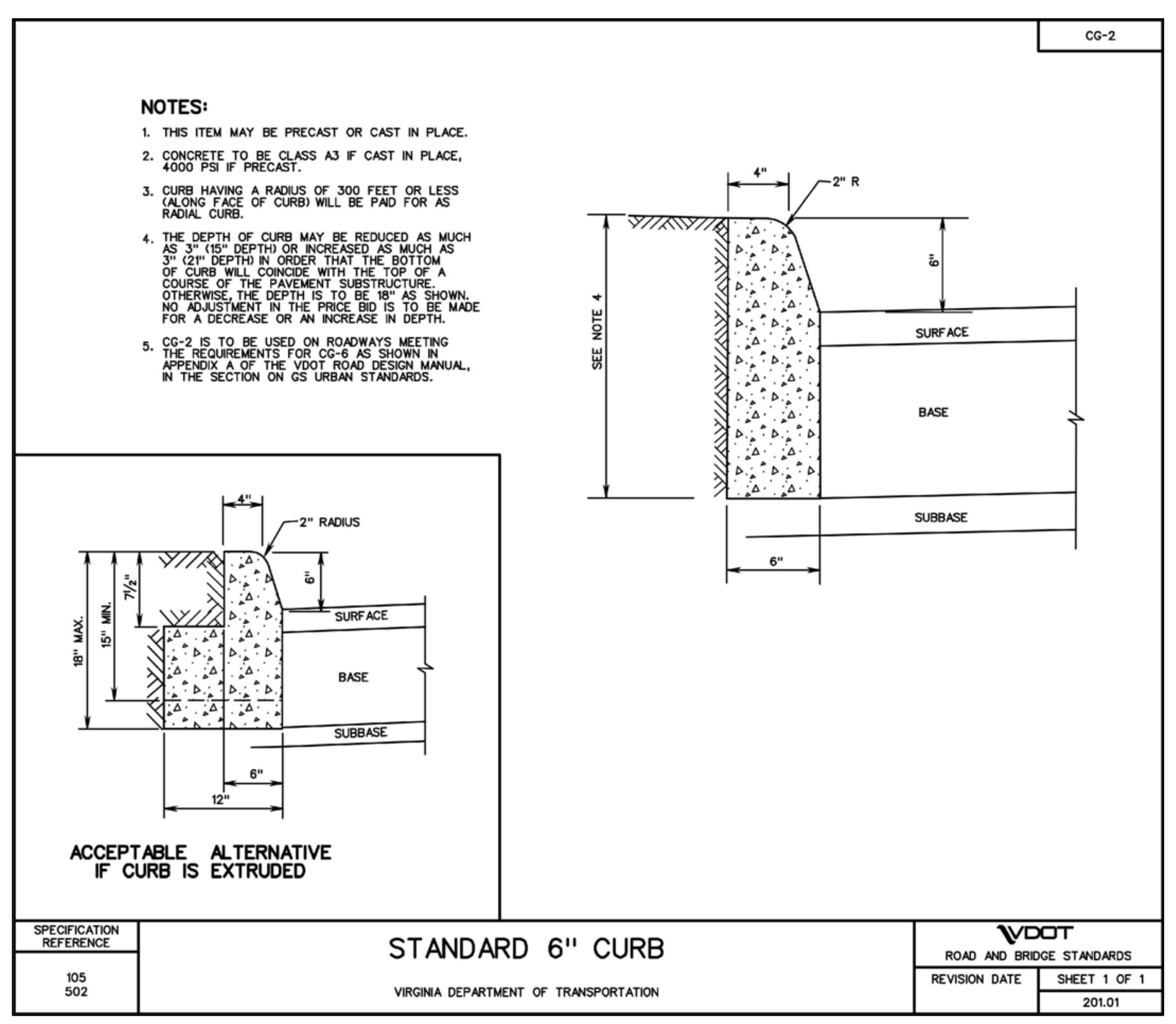
6"-24" DURASLOT® Pipe With Variable Slot Riser

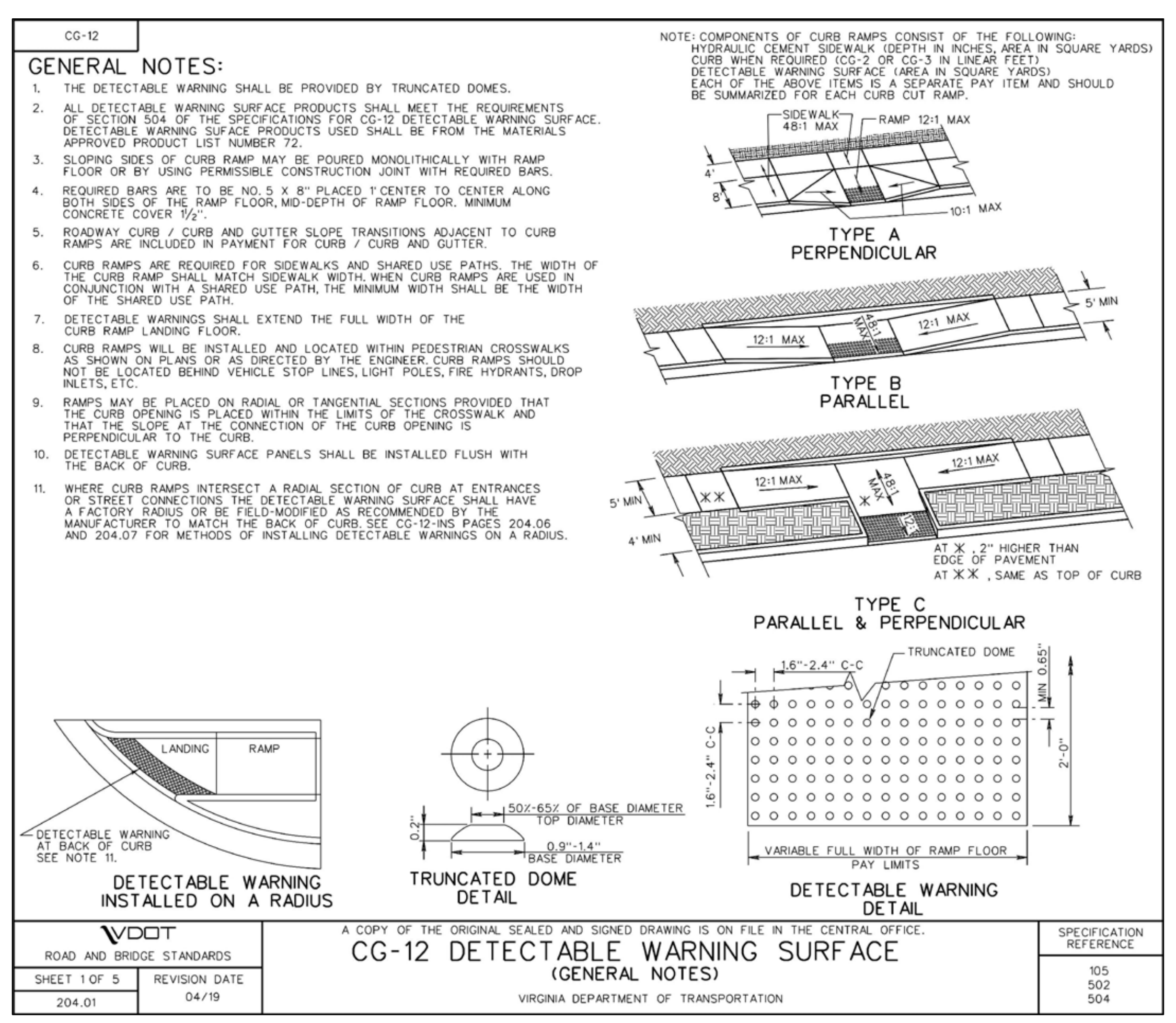
PIPE DIAM.	PRODUCT # (GRATED)	PRODUCT # (OPEN TOP)
6" (150mm)	0690DS	0690DSOT
8" (200mm)	0890DS	0890DSOT
10" (250mm)	1090DS	1090DSOT
12" (300mm)	1290DS	1290DSOT
15" (375mm)	1590DS	1590DSOT
18" (450mm)	1890DS	1890DSOT
24" (600mm)	2490DS	2490DSOT

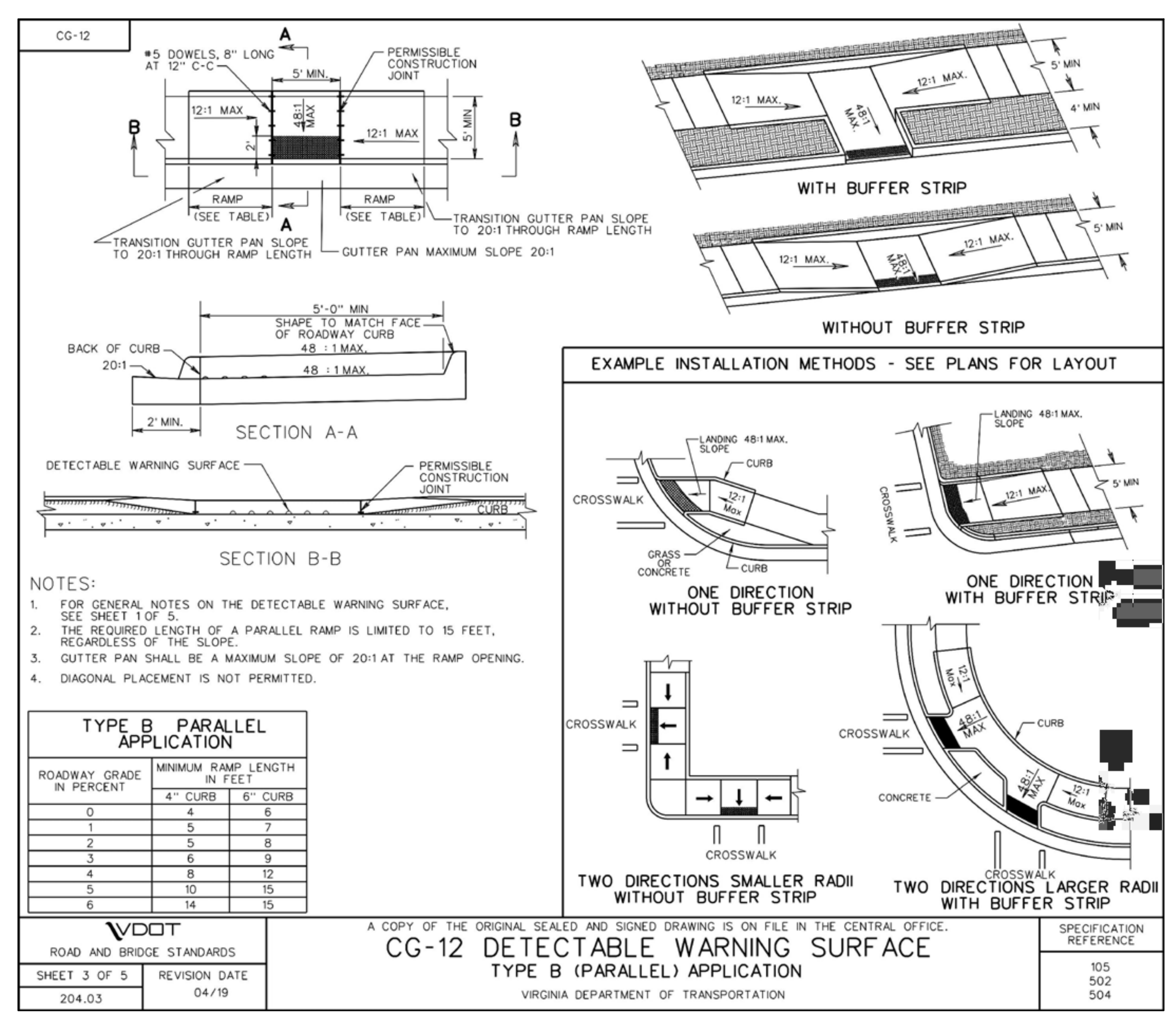
ADS Advanced Drainage Systems, Inc. 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

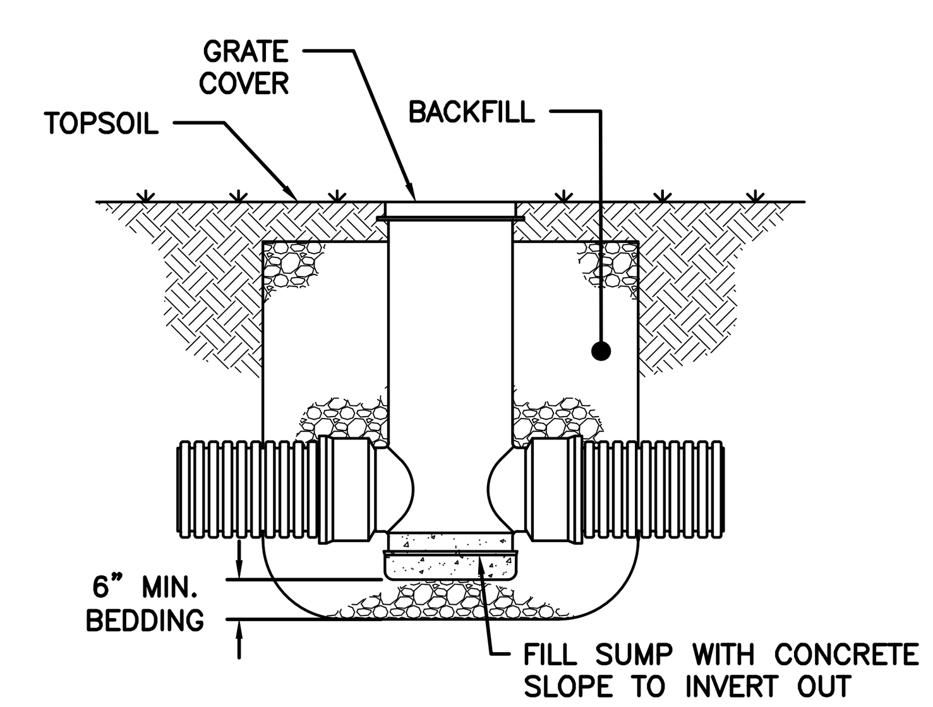


CONCRETE PIPE ENCASEMENT DETAIL
NOT TO SCALE

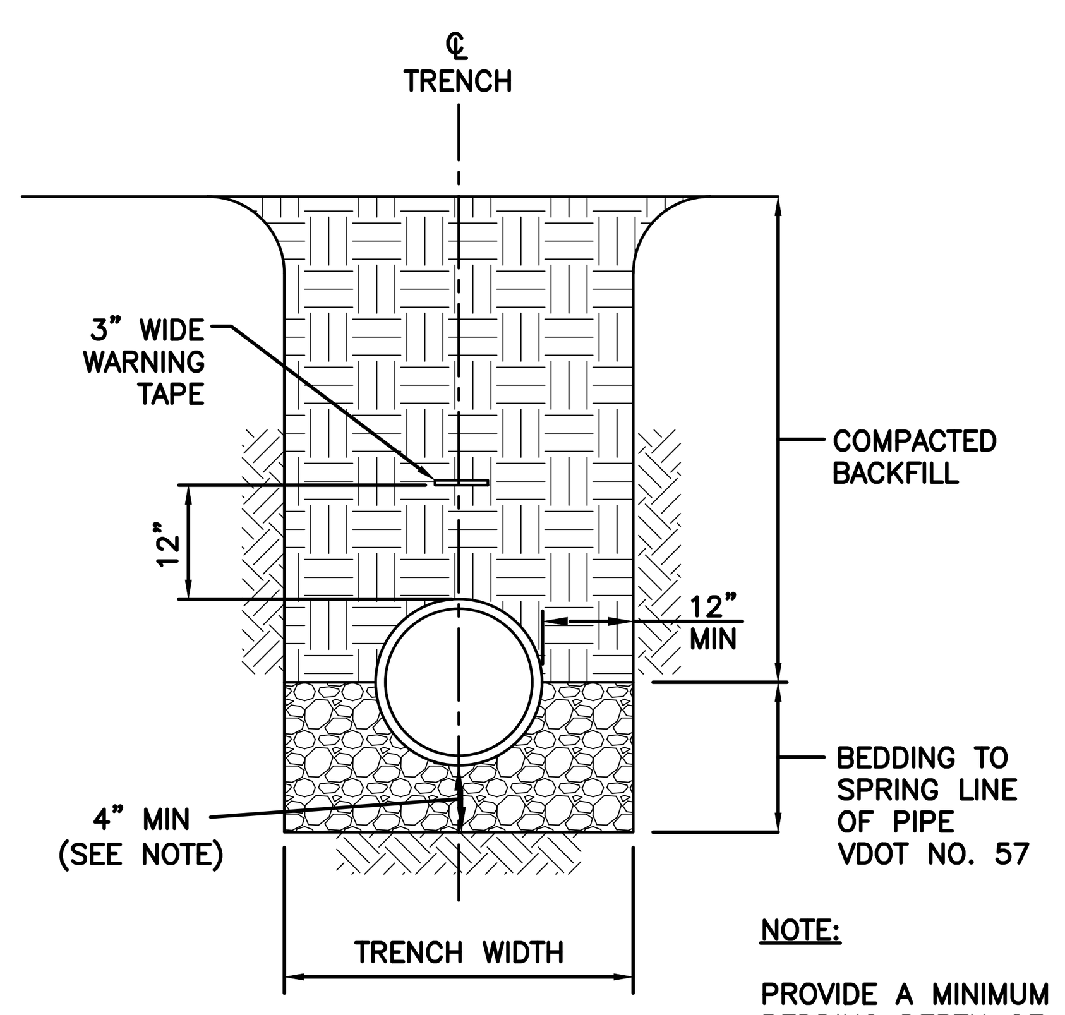








NYLOPLAST DRAIN BASIN DETAIL
NON-TRAFFIC INSTALLATION
NOT TO SCALE



TYPICAL TRENCH DETAIL
NOT TO SCALE

NOTE:
PROVIDE A MINIMUM BEDDING DEPTH OF 6 INCHES BENEATH THE PIPE INVERT.

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22				
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22				
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
Lic. No. 17257
8-12-22
PROFESSIONAL ENGINEER

W&W ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: SAR
DRAWN BY: KTM
DIHR BY: HFW
WWA NUMBER: 220047.01

PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA

TITLE: DETAILS

FILE NAME: 004701C_ND-5.dwg
DISCIPLINE: CIVIL
SCALE: H: NOT TO SCALE V: N/A

SET REV. NO. 3
DRAWING NUMBER: C-10
DATE: 5/27/22

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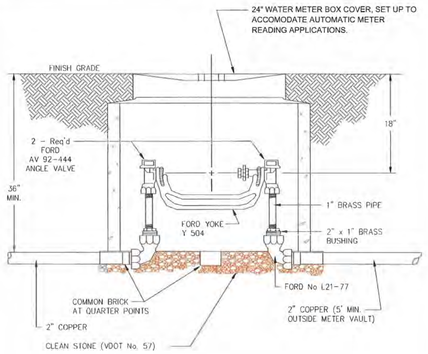


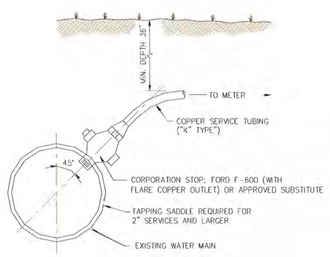
NOTES:

1. ONE PIECE BOX 24" x 30" (1" METER) MUST BE USED.
2. INSTALLER MAY SUBSTITUTE TYPE "K" SOFT COPPER FOR BRASS SHOWN, PROVIDED APPROPRIATE FITTINGS AND VALVES ARE USED.
3. METER BOX MATERIAL: CONCRETE, PVC, OR RIGID FRP.

Special Note:
The service line between the main and the meter will be one continuous piece of pipe (No joints will be permitted)

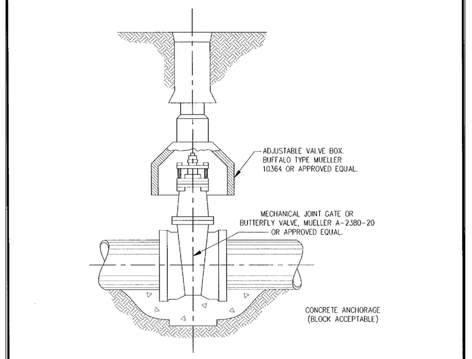
2

Town of Culpeper & Culpeper County	WATER DISTRIBUTION SYSTEM 1" METER IN 2" COPPER TUBE SERVICE



7

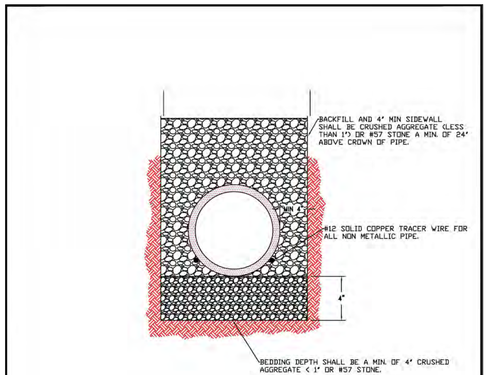
Town of Culpeper & Culpeper County	WATER SERVICE CONNECTION DETAIL



VALVE AND PIPE SHALL HAVE SAME NOMINAL DIAMETER

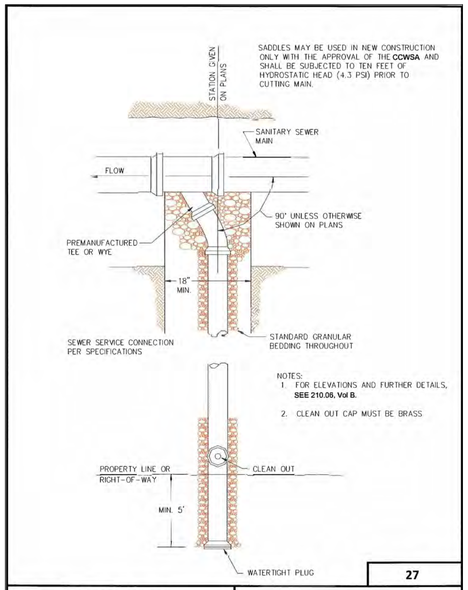
9

Town of Culpeper & Culpeper County	TYPICAL VALVE AND VALVE BOX



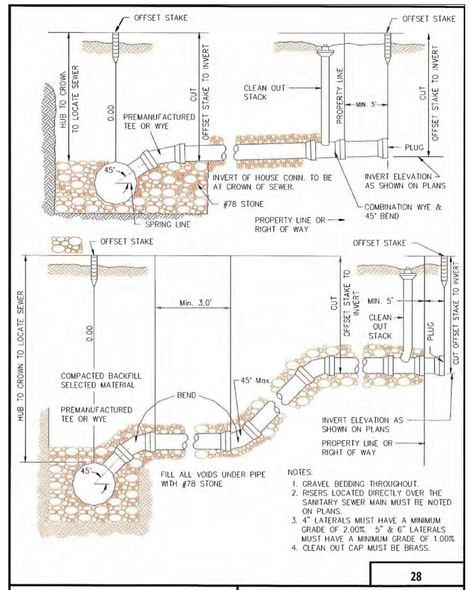
24

Town of Culpeper & Culpeper County	WATER DISTRIBUTION SYSTEM WATER LINE BEDDING AND BACKFILL



27

Town of Culpeper & Culpeper County	SEWER SERVICE CONNECTION PLAN VIEW

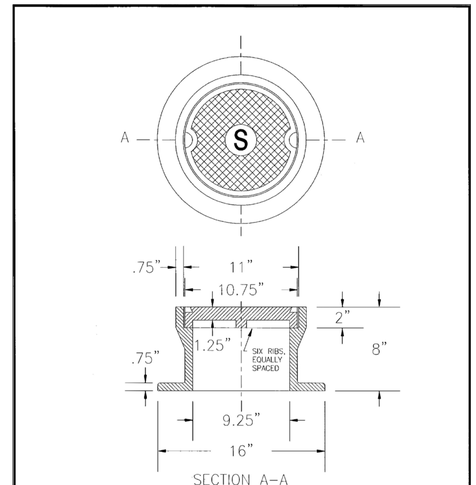


NOTES:

1. GRAVEL BEDDING THROUGHOUT.
2. RISERS LOCATED DIRECTLY OVER THE SANITARY SEWER MAIN MUST BE NOTED ON PLANS.
3. 4" LATERALS MUST HAVE A MINIMUM GRADE OF 2.00%. 5" & 6" LATERALS MUST HAVE A MINIMUM GRADE OF 1.00%
4. CLEAN OUT CAP MUST BE BRASS.

28

Town of Culpeper & Culpeper County	SEWER SERVICE CONNECTION PROFILE



NOTE
ALL PARTS SHALL BE ASPHALTUM PAINT COATED ASTM A-48, CLASS 25 CAST IRON.

29

Town of Culpeper & Culpeper County	CLEANOUT COVER FOR PAVED AREAS

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22				
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3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
LICENSED
PROFESSIONAL ENGINEER
8-12-22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: DETAILS		DRAWING NUMBER: C-11
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_ND-3.dwg	DISCIPLINE: CIVIL	SCALE: H: NOT TO SCALE V: NOT TO SCALE
			DATE: 5/27/22

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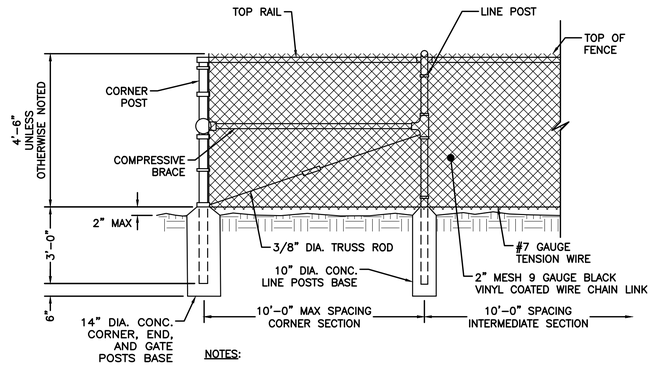
PRIVACY FENCE DETAIL

NOTES:

1. PROVIDE NEW 7.0' TALL PRIVACY FENCE AND DOUBLE 3'–0" GATE AS SHOWN ON THE DRAWINGS.
2. FENCING SHALL BE COMPOSITE MATERIAL AND MATCH THE FENCING PICTURED THAT IS LOCATED ON THE CEMETARY PROPERTY ADJACENT TO THE SITE. FASTENERS AND HARDWARE SHALL BE STAINLESS STEEL.
3. PROVIDE 6"X6" GROUND CONTACT RATED PRESSURE TREATED POSTS ON A MAXIMUM OF 8'–0" ON CENTER. EMBED POSTS 36" IN CONCRETE IN 15" DIAMETER HOLE.
4. COLOR TO BE AS APPROVED BY THE OWNER.

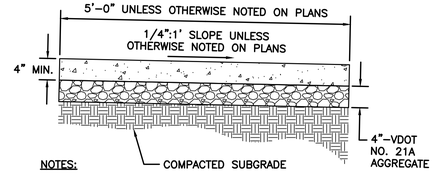


NOTES:

1. MIN 28–DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 2,500 PSI.
2. CHAINLINK FENCING AND ACCESSORIES SHALL BE BLACK VINYL COATED.

CHAIN LINK FENCE DETAIL

NOT TO SCALE

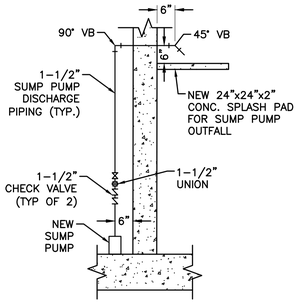


NOTES:

1. SIDEWALK TO BE POURED VDOT CLASS A3 CONCRETE.
2. DISTANCE BETWEEN SCORE LINE NOT TO EXCEED 5' IN LONGITUDINAL DIRECTION.
3. SIDEWALKS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE STRUCTURE.

SIDEWALK DETAIL

NOT TO SCALE

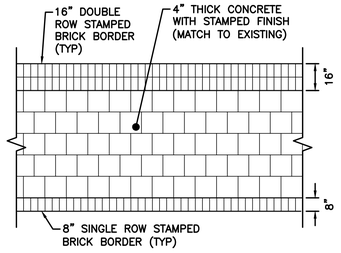


SUMP PUMP DETAIL

NOT TO SCALE

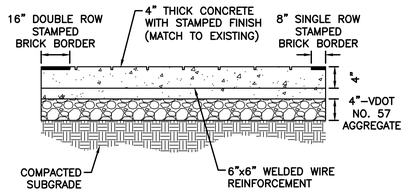
NOTES:

1. PROVIDE MODEL LSPO3AV SUBMERSIBLE SUMP PUMPS AS MANUFACTURED BY GOULDS PUMPS, OR APPROVED EQUAL BY F.E. MYERS. PUMPS SHALL BE LOCATED AS INDICATED ON THE DRAWINGS. PUMP SHALL HAVE 3/8–INCH SPHERICAL SOLIDS HANDLING CAPABILITY, 1½–INCH NPT THREADED DISCHARGE CONNECTION, STAINLESS STEEL PUMP SHAFT, MOTOR CASING, AND FASTENERS, AND GLASS–FILLED THERMOPLASTIC IMPELLER AND CASING BASE. PUMP SHALL BE OF STAINLESS STEEL CONSTRUCTION. PUMP MOTOR SHALL BE ½ HP, 3,450 RPM, 115V, 60 HERTZ, SINGLE PHASE, WITH BUILT–IN THERMAL OVERLOAD PROTECTION WITH AUTOMATIC RESET. PUMP SHALL BE PROVIDED WITH A BUILT–IN, ADJUSTABLE VERTICAL FLOAT SWITCH.
2. SUMP PUMP DISCHARGE PIPING SHALL BE SCHEDULE 80 PVC. PROVIDE LINK SEAL AT WALL PENETRATION.



STAMPED CONCRETE DETAIL - PLAN

NOT TO SCALE

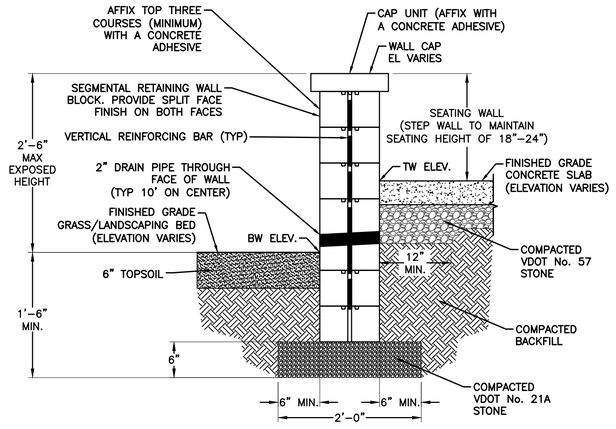


STAMPED CONCRETE DETAIL - SECTION

NOT TO SCALE

NOTES:

1. CAST–IN–PLACE CONCRETE SHALL BE VDOT CLASS A3.
2. SIDEWALKS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE STRUCTURE.
3. 1/2" PREMOLDED EXPANSION FILLER TO BE PLACED BETWEEN SIDEWALK AND BUILDINGS.
4. CONCRETE SHALL BE STAINED/COLORED TO MATCH ADJACENT DECORATIVE CONCRETE FINISHES.
5. PROVIDE DOUBLE ROW AND SINGLE ROW BORDERS AS SHOWN ON THE SITE PLAN.

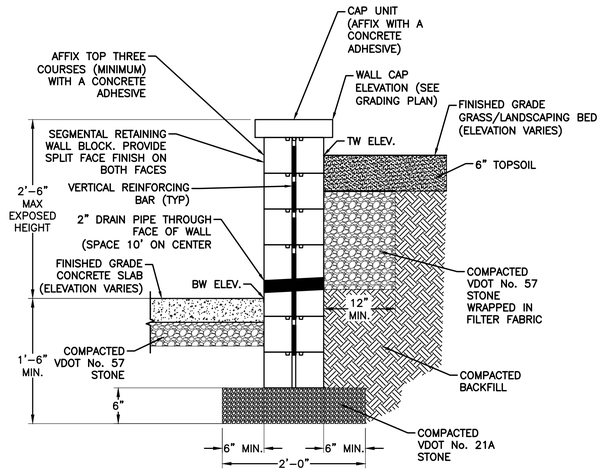


NOTES:

1. TYPICAL DETAIL SHOWN. INSTALL RETAINING WALL BLOCK IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
2. COLOR OF WALL TO BE AS DIRECTED BY OWNER.
3. SEE SITE GRADING PLAN FOR ELEVATIONS.

RETAINING WALL TYPE 'A' DETAIL

SCALE: N.T.S.



NOTES:

1. TYPICAL DETAIL SHOWN. INSTALL RETAINING WALL BLOCK IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
2. COLOR OF WALL TO BE AS DIRECTED BY OWNER.
3. SEE SITE GRADING PLAN FOR ELEVATIONS.

RETAINING WALL TYPE 'B' DETAIL

SCALE: N.T.S.

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3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

NO.	SHEET REVISION	BY	DATE

COMMONWEALTH OF VIRGINIA
HERBERT F WHITE, III
LICENSING 12257
PROFESSIONAL ENGINEER
8-12-22

WW ENGINEERS SURVEYORS PLANNERS ASSOCIATES
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: DETAILS		DRAWING NUMBER: C–12
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_ND–4.dwg	DISCIPLINE: CIVIL	SCALE: H: NOT TO SCALE V: NOT TO SCALE
			DATE: 5/27/22

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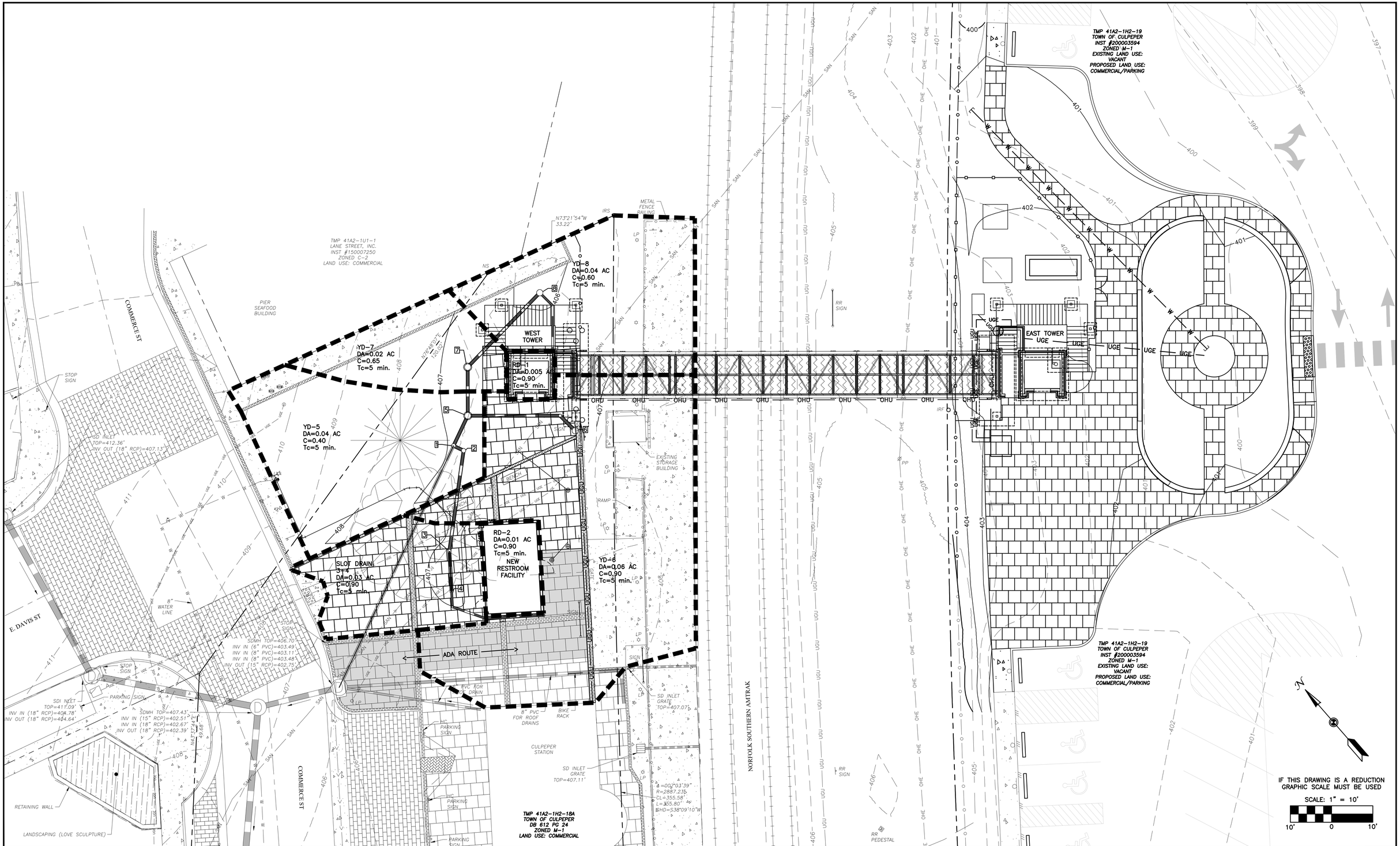

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NO.	SHEET REVISION	BY	DATE

COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
LICENSE NO. 012577
PROFESSIONAL ENGINEER
8-12-22

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ENGINEERS SURVEYORS PLANNERS
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DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: SAR	TITLE: DRAINAGE AREA MAP		DRAWING NUMBER: C-13
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_DA-1.dwg	DISCIPLINE: CIVIL	SCALE: H: 1"=10' V: N/A
			DATE: 5/27/22

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EROSION AND SEDIMENT CONTROL LEGEND

3.01	SAFETY FENCE	SAF	SW
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	
3.05	SILT FENCE	SF	X—X—X
3.07	STORM DRAIN INLET PROTECTION	IP	
	LIMITS OF CLEARING & GRADING		

3.31	TEMPORARY SEEDING	TS	TS
3.32	PERMANENT SEEDING	PS	PS
3.35	MULCHING	MU	MU
3.38	TREE PRESERVATION AND PROTECTION	TP	TP
3.39	DUST CONTROL	DC	DC

CONTRACTOR SHALL USE EXTREME CAUTION WORKING AROUND TREE TO REMAIN AND TAKE CARE TO AVOID DISTURBING OR DAMAGING ROOTS. TRENCHING AND EXCAVATION WITHIN DRIP LINE SHALL BE DONE USING HAND METHODS. CONTRACTOR SHALL PROVIDE SERVICES OF AN ARBORIST TO OVERSEE CONTRUCTION ACTIVITIES ADJACENT TO THE TREE.

CONTRACTOR SHALL TAKE CARE TO PREVENT TRACKING SEDIMENT ONTO COMMERCE STREET. PROVIDE EQUIPMENT WASHING AS REQUIRED TO PREVENT TRACKING SEDIMENT OFF-SITE. ANY SEDIMENT TRACKED ONTO COMMERCE STREET SHALL BE REMOVED IMMEDIATELY.

PROTECT EXISTING CONCRETE SIDEWALK AND CURB FROM DAMAGE

CONTRACTOR TO SEQUENCE CONSTRUCTION TO MINIMIZE SIDEWALK AND HANDICAP RAMP CLOSURES. ADJUST SAFETY FENCING TO EMCOMPASS WORK AREA WHEN AREA IS TO BE DISTURBED. IF NO WORK IS BEING PERFORMED IN THE SIDEWALK ROUTE, THE SAFETY FENCE SHALL BE ADJUSTED TO ALLOW SIDEWALK ACCESS. SIDEWALK ACCESS SHALL BE MAINTAINED TO THE EXTENT POSSIBLE WHEN IT IS SAFE TO DO SO.

LIMITS OF DISTURBANCE = 0.34 AC.

ADA ROUTE

NEW RESTROOM FACILITY

WEST TOWER

EAST TOWER

EXISTING STORAGE BUILDING

TMP 41A2-1U1-1
LANE STREET, INC.
INST #150007250
ZONED C-2
LAND USE: COMMERCIAL

TMP 41A2-1H2-18A
TOWN OF CULPEPER
DB 612 PG 24
ZONED M-1
LAND USE: COMMERCIAL

TMP 41A2-1H2-19
TOWN OF CULPEPER
INST #200003594
ZONED M-1
EXISTING LAND USE: VACANT
PROPOSED LAND USE: COMMERCIAL/PARKING

COMMERCE ST

E. DAVIS ST

NORFOLK SOUTHERN AMTRAK

PIER SEAFOOD BUILDING

CULPEPER STATION

RETAINING WALL

LANDSCAPING (LOVE SCULPTURE)

IF THIS DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED

SCALE: 1" = 10'

10' 0 10'

NO.	SHEET REVISION	BY	DATE
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COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
REG. 12251
PROFESSIONAL ENGINEER
8-12-22

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DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: SAR	TITLE: EROSION & SEDIMENT CONTROL PLAN		DRAWING NUMBER: C-14
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_ENS-1.dwg	DISCIPLINE: CIVIL	SCALE: H: 1"=10' V: N/A
			DATE: 5/27/22

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EROSION & SEDIMENT CONTROL NARRATIVE

I. PROJECT DESCRIPTION

THE PURPOSE OF THESE PLANS IS TO CONSTRUCT A NEW PEDESTRIAN BRIDGE AND RESTROOM FACILITY TO SERVE CULPEPER STATION. THE IMPROVEMENTS FOR THIS PROJECT WILL INVOLVE DISTURBING APPROXIMATELY 0.34 ACRES.

II. EXISTING SITE CONDITIONS

THE PROPOSED SITE IS LOCATED NEXT TO CULPEPER STATION ON TOWN OF CULPEPER PROPERTY ON TAX MAPS 41A2–1H2–18A, 41A2–1H2–18, AND 41A2–1H2–19 IN THE TOWN OF CULPEPER, VIRGINIA. THE WEST TOWER SITE IS CURRENTLY A SMALL PARK WITH GRASS, CONCRETE PAVING. AND SCATTERED TREES THE EAST TOWER SITE IS A GRASSED AREA. THE WEST TOWER SITE SHEET FLOWS TO AN EXISTING YARD INLET. THE EAST TOWER SHEET FLOWS TO THE EAST TOWARD A NEW PARKING LOT AND SWM FACILITY.

II. ADJACENT PROPERTIES

THE SITE IS BOUNDED TO THE NORTH BY A BUILDING ON TAX MAP 41A2–1U1–1 (OWNER: LANE STREET, INC.), TO THE WEST BY SOUTH COMMERCE STREET, TO THE EAST BY A NEW PARKING LOT OWNED BY THE TOWN OF CULPEPER, AND TO THE SOUTH BY CULPEPER STATION.

IV. OFF–SITE AREAS

NO OFF–SITE WORK IS ANTICIPATED.

V. SOILS

48C – RAPIDAN–PENN COMPLEX,
7 TO 15 PERCENT SLOPES
HYDROLOGIC SOIL GROUP C
K RATING – 0.43

VI. STORMWATER MANAGEMENT CONSIDERATIONS

THIS PROJECT DISTURBS LESS THAN 1 ACRE AND IS THEREFORE EXEMPT FROM STORMWATER MANAGEMENT WATER QUANTITY AND WATER QUALITY CRITERIA. RUNOFF FROM THE WEST TOWER SITE DRAINS INTO THE EXISTING STORM DRAIN NETWORK. WATER FROM THE EAST TOWER SITE DRAINS TO THE NEW PARKING LOT AND IT ASSOCIATED STORMWATER MANAGEMENT FACILITY. THIS FACILITY WAS DESIGNED TO ACCOMODATE THE IMPROVEMENTS ASSOCIATED WITH THIS PROJECT.

VII. EROSION AND SEDIMENT CONTROL MEASURES

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. SYMBOLS, DETAILS, AND DIMENSIONS USED ARE TAKEN FROM THE HANDBOOK, AS WELL AS THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S ROAD AND BRIDGE STANDARDS, VOLUME I, 2016.

VIII. CRITICAL AREAS: CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM BEING TRACKED ON EXISTING ROADWAYS AND PAVED AREAS.

THE SEDIMENT BASIN AND SILT FENCE SHALL BE INSTALLED BEFORE LAND DISTURBANCE ACTIVITY MAY OCCUR IN THE LOCATIONS SHOWN ON THE E&S PLAN TO CONTAIN SEDIMENT ONSITE AND TO PROTECT DOWNSTREAM PROPERTIES. CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO PREVENT TRACKING OF SEDIMENT INTO THE RIGHT–OF–WAY BY CONSTRUCTION VEHICLES. ALL E&S MEASURES SHALL BE INSPECTED AND REPAIRED AS NECESSARY AFTER EVERY STORM EVENT. CARE SHALL BE TAKEN TO STABILIZE ALL SLOPES AND PREVENT EROSION. CARE SHALL ALSO BE TAKEN TO MINIMIZE THE TRANSPORT OF SEDIMENT ONTO ADJACENT ROADWAYS.

A. STRUCTURAL PRACTICES

1. TEMPORARY CONSTRUCTION ENTRANCE (CE), 3.02: TEMPORARY CONSTRUCTION ENTRANCES SHALL BE PROVIDED AT THE LOCATION SHOWN ON THE PLANS.
2. SILT FENCE (SF), 3.05: SILT FENCE BARRIERS SHALL BE INSTALLED DOWN SLOPE OF AREAS WITH MINIMAL GRADES TO FILTER RUNOFF FROM SHEET FLOW AS INDICATED ON THE ATTACHED SITE PLAN.
3. INLET PROTECTION (IP), 3.07: INLET PROTECTION SHALL BE PROVIDED AS SHOWN ON PLANS TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREAS.

B. VEGETATIVE PRACTICES

1. TEMPORARY SEEDING (TS), 3.31: TEMPORARY SEEDING SHALL BE PROVIDED ON SITE TO PROVIDE STABILIZATION FOR ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 14 DAYS. REFER TO TABLE 3.31–B ON THE DRAWINGS FOR SPECIFICATIONS.
2. PERMANENT SEEDING (PS), 3.32: PERMANENT SEEDING SHALL BE PROVIDED ON SITE TO PROVIDE STABILIZATION FOR ALL DISTURBED AREAS FOR FINAL STABILIZATION OR DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN ONE YEAR. REFER TO TABLE 3.32–C ON THE DRAWINGS FOR SPECIFICATIONS.
3. MULCHING (MU), 3.35: PROVIDE MULCH WHERE INDICATED ON THE PLANS TO STABILIZE SEEDED AREAS AND PROMOTE THE ESTABLISHMENT OF VEGETATION.

C. MINIMUM STANDARDS

MS–1. STABILIZATION OF DENUDED AREAS:
PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN 7 DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT OR UNDISTURBED FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

MS–2. STABILIZATION OF SOIL STOCKPILES:
DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.

MS–3. PERMANENT VEGETATIVE COVER:
A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED 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 E&S INSPECTOR, IS UNIFORM AND MATURE ENOUGH TO SURVIVE AND INHIBIT EROSION.

MS–4. TIMING AND STABILIZATION OF SILT TRAPPING MEASURES:
SEDIMENT BASINS AND TRAPS, STORM INLET PROTECTION, SILT FENCING, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

MS–5. STABILIZATION OF EARTHEN STRUCTURES:
STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

MS–6. SEDIMENT BASINS AND TRAPS:
SEDIMENT TRAPS & BASINS SHALL BE CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED.
A. THE MINIMUM CAPACITY OF A SEDIMENT TRAP SHALL BE 134–CUBIC YARDS PER ACRE OF DRAINAGE AREA, AND SHALL CONTROL A DRAINAGE AREA OF LESS THAN 3–ACRES.
B. THE MINIMUM CAPACITY OF A SEDIMENT BASIN SHALL BE 134–CUBIC YARDS PER ACRE OF DRAINAGE AREA, AND SHALL CONTROL A DRAINAGE AREA OF 3–ACRES OR GREATER.

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

MS–8. CONCENTRATED RUNOFF DOWN CUT OR FILL SLOPES:
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. WATER SEEPAGE FROM A SLOPE FACE:
WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

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

MS–11. STABILIZATION OF OUTLETS:
BEFORE NEWLY CONSTRUCTED STORM WATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.

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

MS–13. CROSSING A LIVE WATERCOURSE:
WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIALS SHALL BE PROVIDED.

MS–14. APPLICABLE REGULATIONS:
ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

MS–15. STABILIZATION OF BED AND BANKS: N/A
THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

MS–16. UNDERGROUND UTILITIES:
UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS, IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 100–LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES, EXCEPT FOR ANY DIVERSION DITCHES.
C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFFSITE PROPERTY.
D. TRENCH BACKFILL MATERIAL SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
F. ALL APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH AT ALL TIMES.

MS–17. CONSTRUCTION ACCESS ROUTES:
WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND–DISTURBING ACTIVITIES.

MS–18. TEMPORARY E&S CONTROL MEASURE REMOVAL:
ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL E&S AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED 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; OR
   (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; AND
   (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 STORM WILL NOT OVERTOP THE BANKS AND A TWO–YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL, THE BED, OR THE BANKS; OR
   (2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN–YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;
   (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; OR
   (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE VESCP 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 TO A DETENTION FACILITY.
J. IN APPLYING THESE STORMWATER MANAGEMENT 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. HYDROLOGIC 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 MINIMIZES 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) REGULATIONS.
N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25–870–66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF SUBDIVISION 19 OF THIS SUBSECTION.

D. MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROL STRUCTURES AND SYSTEMS SHALL BE MAINTAINED, INSPECTED, AND REPAIRED AS NEEDED TO INSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED AT THE END OF EACH DAY AND AFTER EVERY RAINFALL EVENT.

1. DAMAGE TO EROSION CONTROL MEASURES CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY SHALL BE REPAIRED BEFORE THE END OF EACH WORKING DAY.
2. MAINTAIN ALL SEEDED AREAS UNTIL A UNIFORM STAND IS ACCEPTED.
3. CONSTRUCTION ENTRANCE (3.02): PROVIDE FOR EQUIPMENT WASHING AS NEEDED TO PREVENT THE TRANSPORT OF SOIL ONTO EXISTING ASPHALT ROADWAYS. ANY SEDIMENT ON THE PAVEMENT SHALL BE REMOVED IMMEDIATELY.
4. SILT FENCE (3.05): SILT FENCE BARRIERS WILL BE CHECKED DAILY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL REACHES HALF WAY TO THE TOP OF THE BARRIER.
5. INLET PROTECTION (IP), 3.07: INSPECT MEASURE AFTER RAINFALL EVENTS AND REPAIR AS NEEDED.
6. SEEDING (3.31/3.32): AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION WILL BE RESEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED.
7. MULCHING (3.35): INSPECT MEASURE AFTER RAINFALL EVENTS OR HIGH WIND EVENTS TO ENSURE THE MEASURE HAS STAYED IN PLACE.

SEQUENCE OF CONSTRUCTION

1. INSTALL CONSTRUCTION ENTRANCE, PERIMETER CONTROLS, TREE PROTECTION, AND SAFETY FENCING.
2. CLEAR TREES AND DEMOLISH SITE ITEMS AS INDICATED ON THESE DRAWINGS.
3. PERFORM GRADING TO SUBGRADE ELEVATIONS.
4. INSTALL DRAINAGE PIPING AND INLETS. PROVIDE INLET PROTECTION AS INLETS ARE INSTALLED.
5. CONSTRUCT NEW PEDESTRIAN BRIDGE AND TOWERS AND RESTROOM FACILITY.
6. FINISH GRADE SITE.
7. STABILIZE DISTURBED AREAS.
8. ALL EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED WITHIN 30 DAYS OF FINAL SITE STABILIZATION OR WHEN MEASURES ARE NO LONGER NEEDED. REMOVALS ARE SUBJECT TO APPROVAL BY THE EROSION CONTROL INSPECTOR.
9. CLOSE OUT THE PROJECT.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE–CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625–02–00 EROSION AND CONTROL SEDIMENT REGULATIONS.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF–SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
9. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF–PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS FOR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
10. ALL FILL MATERIAL TO BE TAKEN FROM AN APPROVED, DESIGNATED BORROW AREA.
11. ALL WASTE MATERIALS SHALL BE TAKEN TO AN APPROVED WASTE AREA. EARTH FILL SHALL BE INERT MATERIALS ONLY, FREE OF ROOTS, STUMPS, WOOD, RUBBISH, AND OTHER DEBRIS.
12. BORROW OR WASTE AREAS ARE TO BE RECLAIMED WITHIN 7 DAYS OF COMPLETION.
13. ALL INERT MATERIALS SHALL BE TRANSPORTED IN COMPLIANCE WITH THE CODE OF GREENE COUNTY.
14. BORROW, FILL OR WASTE ACTIVITY INVOLVING INDUSTRIAL–TYPE POWER EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00A.M. TO 9:00 P.M.
15. BORROW, FILL OR WASTE ACTIVITY SHALL BE CONDUCTED IN A SAFE MANNER THAT MAINTAINS LATERAL SUPPORT, IN ORDER TO MINIMIZE ANY HAZARD TO PERSONS, PHYSICAL DAMAGE TO ADJACENT LAND AND IMPROVEMENTS, AND DAMAGE TO ANY PUBLIC STREET BECAUSE OF SLIDES, SINKING, OR COLLAPSE.
16. THE DEVELOPER SHALL RESERVE THE RIGHT TO INSTALL, MAINTAIN, REMOVE OR CONVERT TO PERMANENT STORMWATER MANAGEMENT FACILITIES WHERE APPLICABLE. ALL EROSION CONTROL MEASURES ARE REQUIRED BY THIS PLAN REGARDLESS OF THE SALE OF ANY LOT, UNIT, BUILDING OR OTHER PORTION OF THE PROPERTY.
17. TEMPORARY STABILIZATION SHALL BE TEMPORARY SEEDING AND MULCHING. SEEDING IS TO BE AT 75 LBS/ACRE, AND IN THE MONTHS OF SEPTEMBER TO FEBRUARY TO CONSIST OF 50/50 MIX OF ANNUAL RYEGRASS AND CEREAL WINTER RYE, OR IN MARCH AND APRIL TO CONSIST OF ANNUAL RYE, OR MAY THROUGH AUGUST TO CONSIST OF GERMAN MILLET. STRAW MULCH TO BE APPLIED AT 80LBS/100SF, AND MUST BE ANCHORED. ALTERNATIVES ARE SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.
18. MAINTENANCE: ALL MEASURES ARE TO BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. ANY DAMAGE OR CLOGGING TO STRUCTURAL MEASURES IS TO BE REPAIRED IMMEDIATELY. SILT TRAPS ARE TO BE CLEANED WHEN 50% OF THE WET STORAGE VOLUME IS FILLED WITH SEDIMENT. ALL SEEDED AREAS ARE TO BE RESEEDED WHEN NECESSARY TO ACHIEVE A GOOD STAND OF GRASS. SILT FENCE AND DIVERSION DYKES WHICH ARE COLLECTING SEDIMENT TO HALF THEIR HEIGHT MUST BE CLEANED AND REPAIRED IMMEDIATELY.
19. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED WITHIN 30 DAYS OF FINAL SITE STABILIZATION, WHEN MEASURES ARE NO LONGER NEEDED, SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.

NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

NO.	SHEET REVISION	BY	DATE

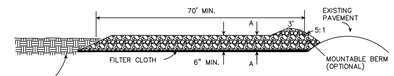
COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
REG. NO. 022514
PROFESSIONAL ENGINEER
8-12-22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

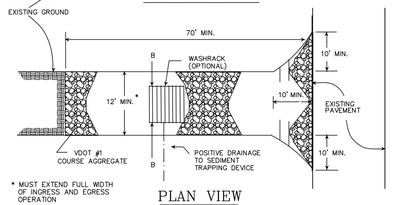
DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: SAR	TITLE: EROSION & SEDIMENT CONTROL NARRATIVE		DRAWING NUMBER: C–15
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_ENS–2.dwg	DISCIPLINE: CIVIL	SCALE: H: N/A V: N/A
			DATE: 5/27/22

C:\Work From Home\Projects\AutoCad (M)\220047 Town of Culpeper – Pedestrian Bridge Project\220047.01 Bridge Restroom Facility\004701C_ENS–2.dwg

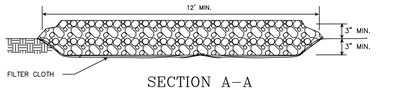
STONE CONSTRUCTION ENTRANCE



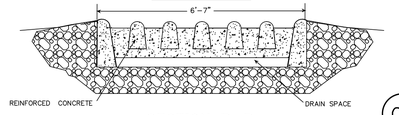
SIDE ELEVATION



PLAN VIEW



SECTION A–A



SECTION B–B

CE

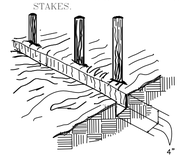
SOURCE: ADAPTED from 1983 Maryland Standards for Soil erosion and Sediment Control, and Va. DSWC

Plate 3.02-1

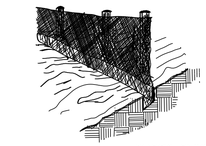
CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)

1. SET THE STAKES.

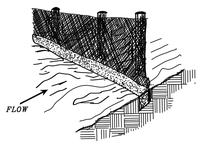
2. EXCAVATE A 4"X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.



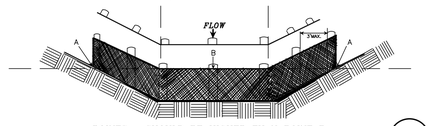
3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



SHEET FLOW INSTALLATION
(PERSPECTIVE VIEW)



POINTS A SHOULD BE HIGHER THAN POINT B.

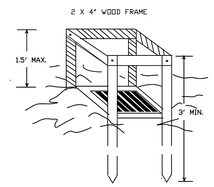
DRAINAGEWAY INSTALLATION
(FRONT ELEVATION)

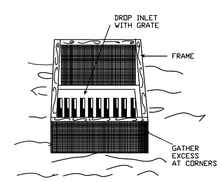
SF

SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control,VA. DSWC Sherwood and Wyant

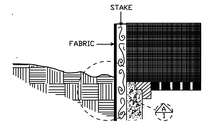
PLATE 3.05-2

SILT FENCE DROP INLET PROTECTION

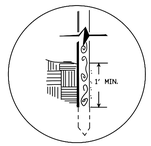




PERSPECTIVE VIEWS



ELEVATION OF STAKE AND FABRIC ORIENTATION



DETAIL A

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

IP

SOURCE: N.C. Erosion and Sediment Control Planning and Design Manual, 1988

PLATE 3.07-1

TABLE 3.32-D
SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

PS

	Total Lbs. Per Acre
Minimum Care Lawn	
- Commercial or Residential	175-200 lbs.
- Kentucky 31 or Turf-Type Tall Fescue	95-100%
- Improved Perennial Ryegrass	0-5%
- Kentucky Bluegrass	0-5%
High-Maintenance Lawn	200-250 lbs.
- Kentucky 31 or Turf-Type Tall Fescue	100%
General Slope (3:1 or less)	
- Kentucky 31 Fescue	128 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
	150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	
- Kentucky 31 Fescue	108 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
- Crownvetch **	20 lbs.
	150 lbs.

* Use seasonal nurse crop in accordance with seeding dates as stated below:
February 16th through April ..... Annual Rye
May 1st through August 15th ..... Foxtail Millet
August 16th through October ..... Annual Rye
November through February 15th ..... Winter Rye

** Substitute Sericea lespedeza for Crownvetch east of Farmville, Va. (May through September use hulled Sericea, all other periods, use unhulled Sericea). If Flatpea is used in lieu of Crownvetch, increase rate to 30 lbs./acre. All legume seed must be properly inoculated. Weeping Lovegrass may be added to any slope or low-maintenance mix during warmer seeding periods; add 10-20 lbs./acre in mixes.

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

TS

SEED

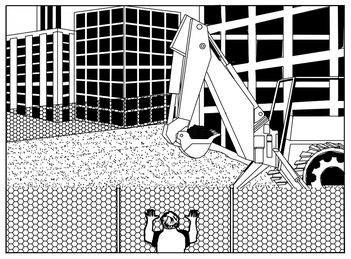
APPLICATION DATES	SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 -100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

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/es&s.htm#pubs

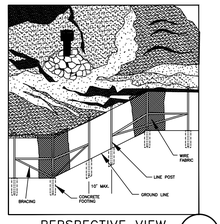
SAFETY FENCE



PERSPECTIVE VIEW

NOTE:

SAFETY FENCING SHALL BE 6.0' TALL AND INCLUDE A 32 SQUARE FOOT SIGN WITH APPLICANT CONTACT INFORMATION AND CONCEPT PLAN SHOWING LOCATION AND NATURE OF IMPROVEMENTS. SIGN SHALL MEET REQUIREMENTS OF TOWN CODE SECTION 27-265(a)(22) AND 27-267.



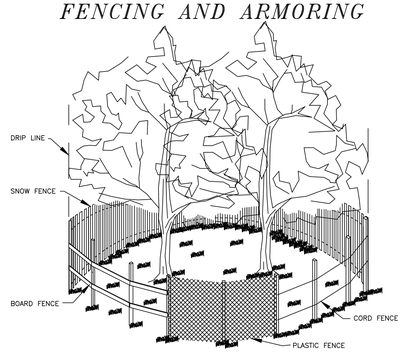
PERSPECTIVE VIEW
METAL FENCE

SAF

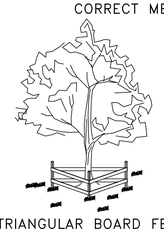
SOURCE: CONWED PLASTICS
VDOT ROAD AND BRIDGE STANDARDS
VA. DSWC

PLATE. 3.1-1

FENCING AND ARMORING



CORRECT METHODS OF TREE FENCING



TRIANGULAR BOARD FENCE

CORRECT TRUNK ARMORING

TP

SOURCE: VA. DSWC

PLATE 3.38-2

NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
REGISTRATION 12257
PROFESSIONAL ENGINEER
8-12-22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.964.2700
www.wwassociates.net

DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: SAR	TITLE: EROSION & SEDIMENT CONTROL DETAILS		DRAWING NUMBER: C-16
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: 004701C_ENS-3.dwg	DISCIPLINE: CIVIL	SCALE: H: N/A V: N/A
			DATE: 5/27/22

C:\Work From Home\Projects\AutoCad (N)\220047 Town of Culpeper - Pedestrian Bridge Project\220047.01 Bridge Restroom Facility\004701C_ENS-3.dwg

Schedule

Symbol	Label	Lumens Per Lamp	Light Loss Factor	Catalog Number	Description	Manufacturer	Wattage
	SL2	12214	0.9	DSX1 LED P3 40K T3M MVOLT	DSX1 LED P3 40K T3M MVOLT	Lithonia Lighting	204
	C	3053	0.9	MRW LED P2 SR4 40K MVOLT	MRW LED WITH P2-PERFORMANCE PACKAGE, 4000K, AND SR4 OPTIC TYPE	Lithonia Lighting	29.17
	D	4890	0.9	VCPG LED P2 40K T5W MVOLT	VCPG LED WITH P2 - PERFORMANCE PACKAGE, 4000K, T5W OPTIC TYPE	Lithonia Lighting	33.96
	E	4668	0.9	MRW LED P3 SR4 40K MVOLT	MRW LED WITH P3-PERFORMANCE PACKAGE, 4000K, AND SR4 OPTIC TYPE	Lithonia Lighting	39.31

LIGHT FIXTURE TYPE "SL2"
SCALE: NONE

LIGHT FIXTURE TYPE "C" AND "E"
SCALE: NONE

LIGHT FIXTURE TYPE "D"
SCALE: NONE

LIMITS OF SITE LIGHTING TO BE INSTALLED WITH PLANS ENTITLED "CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE." CONTRACTOR SHALL PROVIDE ALL LIGHTING WITHIN THE AREA SHOWN. SL2 PARKING LOT LIGHTS ARE BY OTHERS AND NOT IN CONTRACT.

NOTE:
THE PHOTOMETRIC PLAN SHOWN IS A CONSOLIDATED PHOTOMETRIC PLAN THAT INCLUDES ALL LIGHTING PROPOSED BY THE PLANS ENTITLED "CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE, TOWN OF CULPEPER, VIRGINIA" AND "CULPEPER STATION EAST SPENCER STREET PARKING IMPROVEMENTS, TOWN OF CULPEPER, VIRGINIA."

NORTH

PARTIAL SITE PLAN
SCALE: 1"=30'-0"

0 15' 30' 60'

NO.	SHEET REVISION	BY	DATE

NO.	SHEET REVISION	BY	DATE

WWA ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 8, Charlottesville, VA 22911, Phone: 434.964.2700
www.wwassociates.net

DESIGNED BY: WKH	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: STAFF	TITLE: OVERALL SITE LIGHTING PHOTOMETRIC PLAN		DRAWING NUMBER: SL-1
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: ELECTRICAL	SCALE: H: AS SHOWN V: N/A
			DATE: 8/12/2022

ABBREVIATIONS:

NOT ALL ABBREVIATIONS LISTED MAY BE USED ON THE DRAWINGS. IF AN ABBREVIATION IS NOT LISTED OR THERE IS ANY QUESTION ABOUT WHAT AN ABBREVIATION MEANS OR REFERS TO, REQUEST CLARIFICATION FROM NOLEN FRISA ASSOCIATES.

AB	ANCHOR BOLT(S)	HD	HEADED	T	TREAD(S)
ABT	ABOUT	HDG	HOT DIPPED GALVANIZED	T/	TOP OF
ACI	AMERICAN CONCRETE INSTITUTE	HGT	HEIGHT	T&B	TOP AND BOTTOM
ADDL	ADDITIONAL	HM	HOLLOW METAL	TBD	TO BE DETERMINED
ADJ	ADJACENT, ADJUST(ABLE)	HORIZ	HORIZONTAL	TC	TOP CHORD
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	HP	HIGH POINT	THD	THREAD(ED)
AFF	ABOVE FINISHED FLOOR	HR	HOUR	THK	THICK, THICKNESS
AHU	AIR HANDLING UNIT	H/R	HANDRAIL	TMS	THE MASONRY SOCIETY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	HS	HIGH STRENGTH	TPI	TRUSS PLATE INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	HSS	HOLLOW STRUCTURAL SECTION	TRT	TREATED
ALT	ALTERNATE, ALTERNATING	HVAC	HEATING, VENTILATING, AIR CONDITIONING	T/S	TOP OF STEEL
ALUM	ALUMINUM	HVY	HEAVY	T/STL	TOP OF STEEL
ANCH	ANCHOR			TYP	TYPICAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	IBC	INTERNATIONAL BUILDING CODE		
APPROX	APPROXIMATE	ICC	INTERNATIONAL CODE COUNCIL	UG	UNDERGROUND
AR	ANCHOR ROD(S)	ID	INSIDE DIAMETER	UL	UNDERWRITER'S LABORATORIES
ARCH	ARCHITECTURAL	INSUL	INSULATION, INSULATED	UN	UNLESS NOTED
ASD	ALLOWABLE STRESS DESIGN	INV	INVERT	UNIF	UNIFORM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ISOL	ISOLATION, ISOLATE	UNO	UNLESS NOTED OTHERWISE
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION				
AWS	AMERICAN WELDING SOCIETY	JB	JOIST BEARING	VCC	VIRGINIA CONSTRUCTION CODE
		JS	JOIST SUBSTITUTE	VERT	VERTICAL
B/	BOTTOM OF	JST	JOIST	VRC	VIRGINIA REHABILITATION CODE
B/B	BACK TO BACK	JT	JOINT		
BC	BOTTOM CHORD			w/	WITH
BL	BUILDING LINE	K	KIP(S)	WD	WOOD
BLDG(S)	BUILDING(S)	KB	KNEE BRACE	WP	WORKING POINT
BLKG	BLOCKING			WSP	WOOD STRUCTURAL PANEL
BM(S)	BEAM(S)	L	LENGTH, LEFT	WT	WEIGHT
BOTT	BOTTOM	LB(S)	POUND(S)	WWF	WELDED WIRE FABRIC
BOTT/	BOTTOM OF	LD	LOAD		
BP	BEARING PLATE	LG	LONG	XS	EXTRA STRONG
BRDG	BRIDGING	LKG	LOOKING	XXS	DOUBLE-EXTRA STRONG
BRG	BEARING	LLB/B	LONG LEG BACK TO BACK		
BT/PL	BENT PLATE	LLH	LONG LEG HORIZONTAL		
BTWN	BETWEEN	LLV	LONG LEG VERTICAL		
BUR	BUILT-UP ROOFING	LP	LOW POINT		
		LRFD	LOAD AND RESISTANCE FACTOR DESIGN		
CAP.	CAPACITY	LT	LIGHT		
CAT.	CATALOG	LVL	LEVEL, LAMINATED VENEER LUMBER		
C/C	CENTER TO CENTER	LW	LONG WAY		
CFS	COLD-FORMED STEEL				
CGF	COMPACTED GRANULAR FILL	MANUF	MANUFACTURER		
CHKD	CHECKERED	MAS	MASONRY		
CJ	CONSTRUCTION/CONTROL JOINT	MATL	MATERIAL		
CL	CENTERLINE	MAX	MAXIMUM		
CLG	CEILING	MECH	MECHANICAL		
CLR	CLEAR, CLEARANCE	MEP	MECHANICAL ELECTRICAL PLUMBING		
CMU	CONCRETE MASONRY UNIT	MEZZ	MEZZANINE		
CN	CONSTRUCTION NOTE	MIN	MINIMUM		
CO	CLEANOUT	MK	MARK		
CO.	COMPANY	MOW	MASONRY OPENING WIDTH		
COL(S)	COLUMN(S)	MPH	MILES PER HOUR		
COMP	COMPOSITE	MR	MONORAIL		
CONC	CONCRETE	MTL	METAL		
CONN	CONNECTION				
CONSTR	CONSTRUCTION	N/A	NOT APPLICABLE		
CONT	CONTINUOUS	nc	NON-COMPOSITE		
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	NDS	NATIONAL DESIGN SPECIFICATION		
		NFA	NOLEN FRISA ASSOCIATES		
DBA	DEFORMED BAR ANCHOR(S)	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
DBL	DOUBLE	NFoPA	NATIONAL FOREST PRODUCTS ASSOCIATION		
DEG	DEGREE(S)	NIC	NOT IN CONTRACT		
DEMO	DEMOLITION, DEMOLISH	No.	NUMBER		
DET(S)	DETAIL(S)	NPS	NATIONAL PIPE STANDARD		
DFT	DRY FILM THICKNESS	NPT	NATIONAL PIPE THREAD		
DIA	DIAMETER	NS	NEAR SIDE		
DIAG	DIAGONAL	N/S	NONSHRINK		
DIM(S)	DIMENSION(S)				
DLA	DECK LEDGE ANGLE	O/C	ON CENTER		
DN	DOWN	OD	OUTSIDE DIAMETER		
DOH	DOOR OPENING HEIGHT	O/O	OUT TO OUT		
DOW	DOOR OPENING WIDTH	OPNG	OPENING		
DP	DEEP	OPP	OPPOSITE		
D&R	DEMOLISH AND REMOVE	OPP HD	OPPOSITE HAND		
DWG(S)	DRAWING(S)				
DWL(S)	DOWEL(S)	PAF(S)	POWER ACTUATED FASTENER(S)		
		PART	PARTIAL		
EA	EACH	PEMB	PRE-ENGINEERED METAL BUILDING		
EF	EACH FACE	PIP	PROCESS INDUSTRY PRACTICES		
EL	ELEVATION	PIV	POST INDICATOR VALVE		
ELEC	ELECTRICAL	PL	PLATE		
ELEV	ELEVATOR	PLBG	PLUMBING		
ELF	EQUIVALENT LATERAL FORCE	PLF	POUNDS PER LINEAR FOOT		
EMBED	EMBEDMENT	PLTFM	PLATFORM		
EQ	EQUAL	PLYWD	PLYWOOD		
EQUIP	EQUIPMENT	PR	PAIR		
EW	EACH WAY	PROJ	PROJECTION		
EX	EXISTING	PSF	POUNDS PER SQUARE FOOT		
EXIST	EXISTING	PSI	POUNDS PER SQUARE INCH		
EXP	EXPANSION	PSL	PARALLEL STRAND LUMBER		
		PT(S)	POINT(S)		
F	FAHRENHEIT				
FD	FLOOR DRAIN	R	RISER(S), RADIUS		
FDN	FOUNDATION	REF	REFERENCE		
F/F	FACE TO FACE	REFRIG	REFRIGERATION		
FIN	FINISHED	REINF	REINFORCING		
FLR	FLOOR	REM	REMOVABLE		
FOB	FACE OF BRICK	REQD	REQUIRED		
FRMG	FRAMING	REV	REVISION		
FRP	FIBERGLASS REINFORCED PLASTIC	RT	RIGHT		
FRT	FIRE RETARDANT TREATED				
FS	FOOTING STEP, FAR SIDE	SCH	SCHEDULE		
FT	FOOT, FEET	SDI	STEEL DECK INSTITUTE		
FTG(S)	FOOTING(S)	SECT(S)	SECTION(S)		
FT-K	FOOT KIP	SHT	SHEET		
		SIM	SIMILAR		
GA	GAGE, GAUGE	SJ	STRUT JOIST		
GALV	GALVANIZED	SL	SHORT LEG		
GC	GENERAL CONTRACTOR	SPA	SPACE(S)		
GEN	GENERAL	SPEC(S)	SPECIFICATION(S)		
GOL	GAUGE OUTSTANDING LEG	SQ	SQUARE		
GN	GENERAL NOTE(S)	SS	STAINLESS STEEL		
GRT	GROUT	SSMA	STEEL STUD MANUFACTURERS ASSOCIATION		
GRTG	GRATING	SSPC	THE SOCIETY FOR PROTECTIVE COATINGS		
GYP	GYPSUM	STD(S)	STANDARD(S)		
		STIFF	STIFFENER		
		STL	STEEL		
		SUPT	SUPPORT		
		SW	SHORT WAY		
		SYMM	SYMMETRICAL		

SPECIAL INSPECTION NOTES:

SPECIAL INSPECTIONS FOR STRUCTURAL ELEMENTS OF THIS PROJECT ARE REQUIRED AS LISTED IN CHAPTER 17 OF THE VIRGINIA CONSTRUCTION CODE (IBC 2018 WITH VIRGINIA AMENDMENTS). SUCH INSPECTIONS ARE TO BE PERFORMED BY A QUALIFIED INDEPENDENT TESTING AGENCY. TESTING PROCEDURES SHALL BE REVIEWED BY THE ARCHITECT, STRUCTURAL ENGINEER OF RECORD, GENERAL CONTRACTOR, AND THE OWNER PRIOR TO CONDUCTING INSPECTIONS AND TESTS. THE TESTING AGENCY SHALL PROVIDE WRITTEN REPORTS/RECORDS OF ALL INSPECTIONS TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER OF RECORD, AND THE BUILDING OFFICIAL, NOTING COMPLIANCE OR NON-COMPLIANCE WITH REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND WITH APPLICABLE CODE DOCUMENTS.

SPECIAL INSPECTIONS OF NON-STRUCTURAL COMPONENTS, SUCH AS EIFS, FIRE PROOFING, ETC., MAY ALSO BE REQUIRED, DEPENDING ON THE APPLICATION PRESENT. SEE ARCHITECTURAL DRAWINGS FOR NON-STRUCTURAL SPECIAL INSPECTION REQUIREMENTS.

STRUCTURAL INSPECTIONS SHALL AT A MINIMUM INCLUDE THE FOLLOWING, WITH ADDITIONAL INSPECTIONS AS MAY BE REQUIRED BY THE BUILDING OFFICIAL:

A. EXISTING SITE SOIL CONDITIONS AND STRUCTURAL FILL, TO ENSURE PROPER COMPACTION AND COMPLIANCE WITH PROJECT SPECIFICATIONS (REF VCC SECTION 1705.6).

B. CAST-IN-PLACE CONCRETE, TO INCLUDE INSPECTION OF REINFORCING STEEL PLACEMENT AND FORMWORK (SHAPE, LOCATION, AND DIMENSIONS) FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, VERIFICATION OF USE OF REQUIRED APPROVED DESIGN MIX, MAINTENANCE AND APPLICATION OF SPECIFIED CURING TECHNIQUES, INSPECTION OF POST INSTALLED ANCHORS, AND STRENGTH TESTING OF CONCRETE (REF VCC SECTION 1705.3).

C. STRUCTURAL STEEL, TO INCLUDE COMPLIANCE WITH MATERIAL SPECIFICATIONS AND ERECTION TOLERANCES, AND CONNECTIONS, TO INCLUDE BOTH WELDED AND BOLTED CONNECTIONS (REF VCC SECTION 1705.2).

1. MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS AND WASHERS TO INCLUDE VERIFICATION OF IDENTIFICATION MARKINGS CONFORMING TO ASTM SPECIFICATION REQUIRED BY CONSTRUCTION DOCUMENTS.

2. WELDED CONNECTION INSPECTION SHALL INCLUDE VISUAL INSPECTION OF WELDS PER AWS SPECIFICATION D1.1. PERIODIC INSPECTION IS REQUIRED FOR SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16-INCH.

3. BOLTED CONNECTION INSPECTION SHALL COMPLY WITH REQUIREMENTS OF RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". (NOTE: NO SLIP-CRITICAL CONNECTIONS ARE USED ON THIS PROJECT).

D. METAL DECK ATTACHMENT TO STRUCTURAL MEMBERS, TO INCLUDE PERIODIC CHECKING OF PUDDLE WELDS BETWEEN DECK AND STRUCTURAL MEMBERS AND SCREW FASTENING OF DECK SIDE LAPS AS SPECIFIED IN GENERAL NOTE "23" (REF VCC SECTION 1705.2.2).

E. CONTINUOUS INSPECTION OF HELICAL PIERS DURING INSTALLATION SHALL BE PROVIDED AND MUST INCLUDE REVIEW/DOCUMENTATIO OF INSTALLATION EQUIPMENT USED, PIER SIZES/MODEL NUMBERS, TIP ELEVATIONS, FINAL DEPTH, FINAL INSTALLATION TORQUE AND OTHER PERTINENT INSTALLATION DATA AS REQUIRED BY HELICAL PIER DESIGN ENGINEER OF RECORD. THE APPROVED CONSTRUCTION DOCUMENTS AND GEOTECHNICAL REPORT MUST ALSO BE USED IN DETERMINING COMPLIANCE. (REF VCC SECTION 1705.9)

F. INSPECTION OF GROUNDING ELECTRODE INSTALLATION AND BONDING TO THE FOOTING REINFORCING STEEL AND/OR BUILDING STEEL FRAMING TO COMPLY WITH THE 2020 NATIONAL ELECTRIC CODE.

UPON COMPLETION OF THE SPECIAL INSPECTIONS, THE SPECIAL INSPECTIONS TESTING AGENCY SHALL PROVIDE A STATEMENT OF FINAL SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE VIRGINIA CONSTRUCTION CODE. UPON RECEIPT AND REVIEW OF THIS STATEMENT, THE STRUCTURAL ENGINEER OF RECORD WILL PROVIDE A FINAL SPECIAL INSPECTIONS VERIFICATION STATEMENT FOR THE PROJECT. BOTH OF THE FINAL INSPECTIONS STATEMENTS SHALL BE SEALED BY A PROFESSIONAL ENGINEER WITH CURRENT REGISTRATION IN VIRGINIA.

STRUCTURAL GENERAL NOTES:

1. MATERIAL DESIGN STRENGTHS:

   CAST-IN-PLACE CONCRETE
   FOOTINGS & FOUNDATIONS: f'c = 4,000 PSI
   FLOOR SLABS: f'c = 4,000 PSI

   REINFORCING STEEL BARS: fy = 60,000 PSI

   STRUCTURAL STEEL
   ROLLED SHAPES: Fy = 50,000 PSI
   ANGLES & PLATES: Fy = 36,000 PSI
   PIPE: Fy = 35,000 PSI
   HOLLOW STRUCTURAL SECTIONS (HSS): Fy = 46,000 PSI

   SOIL BEARING CAPACITY: q = 2,000 PSF

2. STRUCTURAL ELEMENTS FOR THIS BUILDING ARE DESIGNED UNDER PROVISIONS OF THE FOLLOWING CODES AND SPECIFICATIONS:

   VIRGINIA UNIFORM STATEWIDE BUILDING CODE (IBC 2018 WITH VIRGINIA AMENDMENTS)
   ACI 318-14 AND ACI 301-16
   ACI 530-13/ASCE 5-13 & ACI 530.1-13/ASCE 6-13
   AISC SPECIFICATIONS, 15th EDITION, 2016 (ASD)
   ASCE 7-16

3. BUILDING DESIGN LOADS:

   FLOOR LIVE LOAD:
   SLAB ON GRADE: 300 PSF
   STAIRS AND ELEVATED LANDINGS: 100 PSF UNIFORM, 300 LBS CONCENTRATED

   CODE MINIMUM ROOF UNIFORM LIVE LOAD: 20 PSF

   ROOF SNOW LOAD:
   GROUND SNOW LOAD: P_g = 30 PSF
   FLAT ROOF SNOW LOAD: P_f = 23.1 PSF
   SNOW EXPOSURE FACTOR: C_e = 1.0
   SNOW LOAD IMPORTANCE FACTOR: I_s = 1.10
   SNOW THERMAL FACTOR: C_t = 1.0

   WIND LOAD:
   NOMINAL DESIGN WIND SPEED: V_{asd} = 117 MPH
   RISK CATEGORY: III
   WIND EXPOSURE: C
   INTERNAL PRESSURE COEFFICIENT: 0.18 (±)
   COMPONENTS & CLADDING DESIGN PRESSURE (ASCE 7-10 EQ. 30.4-1): p = 31.8[(GCp)-(±0.18)] PSF

   SEISMIC DATA:
   A. RISK CATEGORY: III
   B. SEISMIC IMPORTANCE FACTOR: I_e = 1.25
   C. MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_S = 0.172g; S_1 = 0.049g
   D. SITE CLASS: D
   E. DESIGN SPECTRAL RESPONSE ACCELERATIONS: S_{DS} = 0.183; S_{D1} = 0.079
   F. SEISMIC DESIGN CATEGORY: B
   G. BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL ORDINARY CONCENTRICALLY BRACED FRAMES AND STEEL ORDINARY MOMENT FRAMES.
   H. DESIGN BASE SHEAR: V = 0.07W
   I. SEISMIC RESPONSE COEFFICIENT: C_S = 0.070
   J. RESPONSE MODIFICATION COEFFICIENT: R = 3.25
   K. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

4. SEE BOUND SPECIFICATIONS BY WW ASSOCIATES FOR DETAILED REQUIREMENTS FOR THE FOLLOWING STRUCTURAL MATERIALS:
   A. SECTION 032000: CONCRETE REINFORCING
   B. SECTION 033000: CAST-IN-PLACE CONCRETE
   C. SECTION 051200: STRUCTURAL STEEL FRAMING
   D. SECTION 053100: STEEL DECKING
   E. SECTION 055313: BAR GRATINGS
   F. SECTION 057300: DECORATIVE METAL RAILINGS
   G. SECTION 316316: AUGER CAST GROUT PILES

   SEE BOUND SPECIFICATIONS BY WW ASSOCIATES FOR ADDITIONAL REQUIREMENTS OF SPECIFICATIONS RELATED TO STRUCTURAL WORK.

5. BRIDGE FOUNDATION AND SUPPORT STRUCTURE DESIGN, AND BEARING GEOMETRY BASED IN PRELIMINARY REACTIONS AND TYPICAL BRIDGE GEOMETRY PROVIDED BY BRIDGE BROTHERS, INC. (www.bridgebrothers.com). BRIDGE FOUNDATION AND SUPPORT STRUCTURE DESIGN AND BEARING GEOMETRY SHALL BE VERIFIED AND COORDINATED WITH FINAL REACTIONS AND APPROVED BRIDGE VENDOR DRAWINGS PRIOR TO CONSTRUCTION.

6. BASIS OF DESIGN FOR ELEVATOR IS TK ELEVATOR ENDURA HYDRAULIC ELEVATOR, 150 FPM, 3500 LB CAPACITY (www.tkelevator.com). ELEVATOR PIT AND SHAFT GEOMETRY SHALL BE COORDINATED WITH APPROVED ELEVATOR SHOP DRAWINGS PRIOR TO CONSTRUCTION.

7. NOTIFY AND COORDINATE WITH PROJECT ENGINEER ANY INTERFERENCES OR CONFLICTS WITH UNDERGROUND PIPING OR OTHER UTILITIES.

8. COORDINATE STRUCTURAL WORK WITH ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND RELATED WORK OF OTHER TRADES. NOTIFY ARCHITECT FOR CLARIFICATION OF DESCREPANCIES, CONFLICTS AND/OR MODIFICATIONS REQUIRED BY CHANGES IN WORK OF OTHER TRADES.

9. ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE TRUE DATUM ELEVATIONS.

10. SOIL BEARING CAPACITY OF 2,000 PSF IS BASED ON GEOTECHNICAL ENGINEERING REPORT FOR CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PREPARED BY UNDERHILL ENGINEERING, UNDERHILL PROJECT No. 21069, DATED SEPTEMBER 27, 2021, AND REPORT ADDENDUM DATED MAY 11, 2022.

11. ALL FOUNDATIONS SHALL BEAR ON ORIGINAL SOIL OR COMPACTED FILL MATERIAL WITH A MINIMUM BEARING CAPACITY OF 2,000 PSF.

12. ALL CONCRETE FOR FOUNDATIONS SHALL HAVE A MINIMUM 28-DAY DESIGN COMPRESSIVE STRENGTH OF 4,000 PSI, AND SHALL BE AIR-ENTRAINED. ALL REINFORCING STEEL BARS SHALL BE ASTM A615, GRADE 60.

13. COORDINATE ANY CHANGES IN FOOTING ELEVATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.

14. ALL FOOTINGS EXPOSED TO EXTERIOR CONDITIONS SHALL HAVE A BOTTOM OF FOOTING ELEVATION A MINIMUM OF 3'-0" BELOW ADJACENT EXTERIOR GRADE. LOWER BOTTOM OF FOOTING ELEVATIONS IF REQUIRED BY SOIL CONDITIONS OR CHANGES IN EXTERIOR GRADE TO MAINTAIN A MINIMUM DEPTH OF 3'-0" BELOW EXTERIOR GRADE. COORDINATE CHANGES IN FOOTING ELEVATIONS WITH OTHER TRADES AS REQUIRED.

15. WHERE STEEL COLUMNS EXTEND BELOW TOP OF CONCRETE, PROVIDE A MINIMUM OF 4 INCHES OF CONCRETE ENCASEMENT AROUND STEEL DOWN TO TOP OF PIER WHEN SLAB ON GRADE IS PLACED.

16. COORDINATE UNDERFLOOR PIPING, DRAINS, CONDUITS, INSERTS, BLOCK-OUTS AND OTHER WORK OF OTHER TRADES AS RELATED TO FOUNDATION AND FLOOR SLAB CONSTRUCTION TO ENSURE PROPER PLACEMENT AND LOCATION PRIOR TO PLACING CONCRETE.

17. COORDINATE LOCATIONS OF SLAB ON GRADE CONSTRUCTION AND CONTROL JOINTS WITH FLOOR FINISHES, PARTITION WALL LOCATIONS, AND OPENING LOCATIONS. JOINT SPACING FOR 4-INCH THICK SLABS SHALL NOT EXCEED 12 FEET.

18. ALL NEW STRUCTURAL STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION AND THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

19. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL SHALL BE MADE USING ASTM F3125, GRADE A325 BOLTS. BOLT DIAMETER SHALL BE 3/4-INCH DIAMETER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

20. ALL STRUCTURAL WELDING SHALL COMPLY WITH AWS SPECIFICATION D1.1, CURRENT EDITION. MINIMUM WELD SIZE SHALL BE 3/16-INCH UNLESS NOTED OTHERWISE ON THE DRAWINGS.

21. STRUCTURAL STEEL FABRICATOR SHALL SUBMIT FABRICATION SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATING ANY STEEL. SHOP DRAWINGS SHALL BE SUBMITTED THROUGH THE GENERAL CONTRACTOR AND SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER.

22. STRUCTURAL STEEL FABRICATOR SHALL COORDINATE COLUMN ANCHOR BOLT LOCATIONS AND SIZES WITH THE GENERAL CONTRACTOR TO ENSURE PROPER PLACEMENT OF SUCH ITEMS IN CONCRETE WORK. ANY OTHER EMBEDMENTS PROVIDED BY THE STRUCTURAL STEEL FABRICATOR SHALL ALSO BE COORDINATED PRIOR TO PLACING CONCRETE.

23. FLOOR DECK SHALL BE 1 1/2", 20 GAGE, COMPOSITE METAL DECK AND SHALL BE GALVANIZED PER ASTM A653, G90 COATING THICKNESS. FASTEN DECK TO STRUCTURAL MEMBERS USING 5/8"Ø PUDDLE WELDS AND 36/4 PATTERN. FASTEN SIDE LAPS WITH A MINIMUM OF (3) #10 TEK SCREWS IN EACH SPAN.

24. UNLESS NOTED OTHERWISE, ADHESIVE ANCHORS FOR CONCRETE SHALL BE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VC 150/300 VACUUM WITH HILTI HAS-V-36 HDG CONTINUOUSLY THREADED ROD PER ICC ESR-3187 AS MANUFACTURED BY HILTI INC. (www.hilti.com). ANCHOR ROD DIAMETER AND EMBEDMENT DEPTH SHALL BE AS NOTED ON THE DRAWINGS. INSTALL ANCHORS PER THE MANUFACTURER PRINTED INSTALLATION INSTRUCTION, AS INCLUDED IN THE ANCHOR PACKAGING.

25. CONCRETE SHALL HAVE A MINIMUM AGE OF 21 DAYS AT TIME OF ADHESIVE ANCHOR INSTALLATION.

26. AT TIME OF ADHESIVE ANCHOR INSTALLATION, TEMPERATURE OF BASE MATERIAL SHALL NOT BE LESS THAN 23 DEGREES FAHRENHEIT AND SHALL NOT BE GREATER THAN 104 DEGREES FAHRENHEIT.

27. GRATING SHALL BE ALUMINUM I-BAR GRATING WITH 1-3/4" BY 1/4" STRIATED BEARING BARS SPACED AT 11/16" ON CENTER AND CROSS BARS AT 4" ON CENTER. GRATING SHALL HAVE MILL FINISH. FASTEN GRATING TO SUPPORTING MEMBERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ISOLATE ALUMINUM FROM DISSIMILAR MATERIALS WITH 1/16" BUTYL RUBBER OF TEFLON SHEET.

28. WATERSTOPS SHALL BE GREEN STREAK RIBBED CENTER BULB PVC WATERSTOP, STYLE No. 705, AS MANUFACTURED BY SIKA CORPORATION (www.sika.com), OR EQUAL. WATERSTOPS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACURER'S INSTRUCTIONS AND SHALL BE CONTINUOUS AND WATERTIGHT.

29. LOOSE LINTELS FOR SUPPORT OF BRICK OVER OPENINGS SHALL BE L6x3 1/2x5/16 LLV WITH 8" MINIMUM BEARING EACH END. COORDINATE LOCATION AND LENGTH OF LINTELS WITH OPENINGS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

30. HELICAL PIERS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

   A. BASIS OF DESIGN FOR HELICAL PIERS IS HUBBLE POWER SYSTEMS (A. B. CHANCE) HOT-DIPPED GALVANIZED (ASTM A153 CLASS B-1) SS150 PIERS WITH ROCK-IT HELICAL LEAD SECTIONS CONSISTING OF AN 8/10/12 LEAD (HELIX DIAMETERS FROM BOTTOM TO TOP) INSTALLED AS "PULL-DOWN" PIERS WHERE A GROUT COLUMN IS CONSTRUCTED AROUND THE SHAFT OF THE STANDARD HELICAL PIER FOUNDATION SYSTEM.

   B. EACH HELICAL PIER SHALL HAVE AN ULTIMATE CAPACITY OF 114 KIPS IN COMPRESSION AND 110 KIPS IN TENSION. USING A FACTOR OF SAFETY OF 2.0, THE ALLOWABLE CAPACITIES ARE 57 KIPS IN COMPRESSION AND 46 KIPS IN TENSION.

   C. PIERS SHALL BE DRIVEN THRU FILL AND INTO UNDERLYING STIFF RESIDUUM TEMINATING AT REFUSAL OR WHEN THE REQUIRED INSTALLATION TORQUE HAS BEEN REACHED. BASED ON THE PROJECT GEOTECHNICAL REPORT ADDENDUM, THE ANTICIPATED LENGTH OF PIER IS 25 TO 30 FEET. NOTE THAT PIER REFUSAL DEPTHS OF 10 FEET OR LESS SHALL BE EVALUATED BY THE PIER DESIGN ENGINEER AND GEOTECHNICAL ENGINEER PRIOR TO ACCEPTANCE.

   D. HELICAL PIERS SHALL BE DESIGN BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE COMMONWEALTH OF VIRGINA IN CONJUCTION WITH THE PROJECT GEOTECHNICAL REPORT ADDENDUM RECOMMENDATIONS. SIGNED AND SEALED INSTALLATION DRAWINGS SHALL BE PROVIDED FOR APPROVAL PRIOR TO INSTALLATION.

31. REQUESTS FOR INFORMATION (RFI's) FOR CLARIFICATION OF CONSTRUCTION DETAILS AND REQUIREMENTS SHOWN ON THE ISSUED PROJECT STRUCTURAL DRAWINGS AND SPECIFICATIONS SHALL BE SUBMITTED IN WRITING, WITH COPIES TO THE PROJECT ARCHITECT AND PROJECT STRUCTURAL ENGINEER. WRITTEN REQUESTS MAY BE SUBMITTED BY EMAIL.

32. REQUESTS FOR CHANGES (RFC's) IN STRUCTURAL CONSTRUCTION SHOWN ON PREVIOUSLY ISSUED AND APPROVED CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED IN WRITING, SENT THROUGH THE PROJECT ARCHITECT TO THE PROJECT STRUCTURAL ENGINEER.

   A. EXAMPLES OF REQUESTS FOR CHANGE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

      1. CHANGES TO ADDRESS UNFORESEEN SITE CONDITIONS AND/OR UNFORESEEN CONDITIONS OF EXISTING CONSTRUCTION.

      2. CHANGES IN PREVIOUSLY SELECTED EQUIPMENT, FIXTURES, AND THE LIKE REQUIRING RE-DESIGN OF STRUCTURAL ELEMENTS.

      3. CHANGES PROPOSED BY THE CONTRACTOR THAT MAY BENEFIT THE OWNER BY IMPROVING THE CONSTRUCTION SCHEDULE AND/OR REDUCING CONSTRUCTION COSTS.

   B. CHANGES WHICH REQUIRE STRUCTURAL EVALUATION AND/OR RE-DESIGN BY NFA ARE CONSIDERED "ADDITIONAL SERVICES" AND WILL BE SUBJECT TO ADDITIONAL COSTS AND SHALL REQUIRE APPROVAL OF SUCH COSTS BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

   C. UPON APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE OF ADDITIONAL COSTS, NFA WILL PROCEED WITH EVALUATION/DESIGN OF THE CHANGE AND WILL PROVIDE SKETCHES OR REVISED DRAWINGS AS NEEDED TO EXECUTE THE CHANGE.

nfa NOLEN FRISA ASSOCIATES CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276

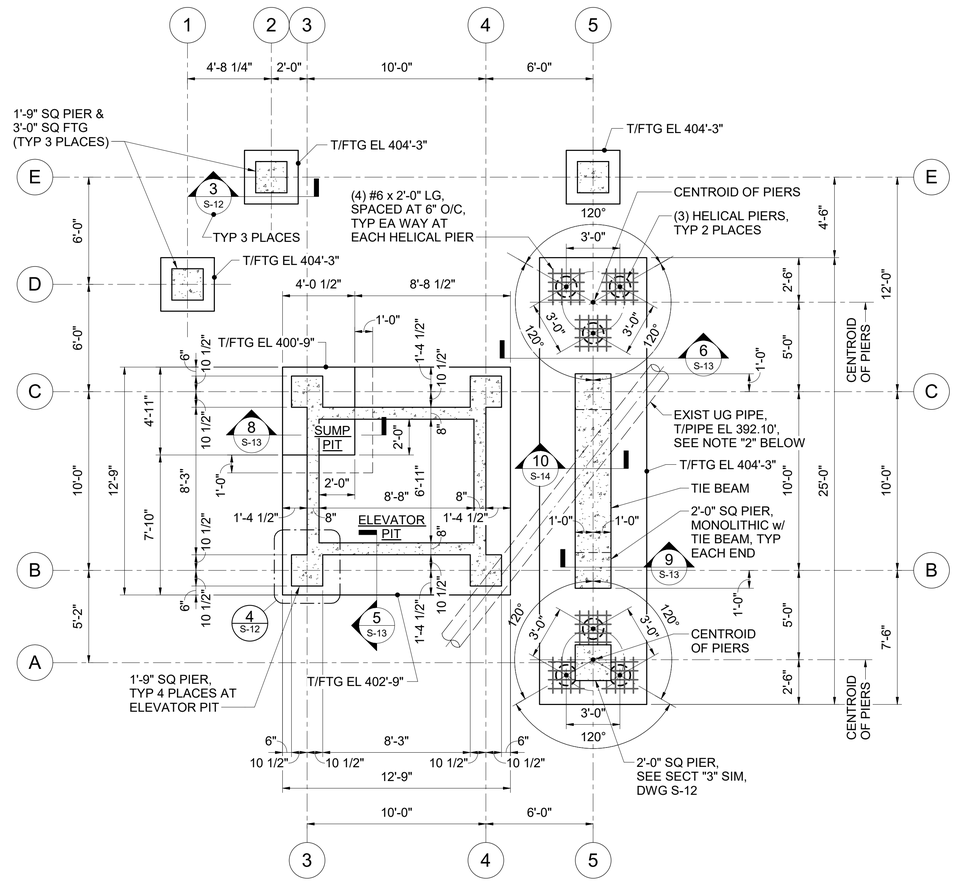
NFA PROJECT No. 21429

NO.	SHEET REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RW	11/11/22

COMMONWEALTH OF VIRGINIA
H. ANTHONY PACE
Lic. No. 040176
5/27/2022
PROFESSIONAL ENGINEER

WW ENGINEERS SURVEYORS PLANNERS ASSOCIATES
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: HAP/NFA	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 1
DRAWN BY: RW/NFA	TITLE: STRUCTURAL GENERAL NOTES		DRAWING NUMBER: S-1
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL	SCALE: AS SHOWN
			DATE: 5/27/22

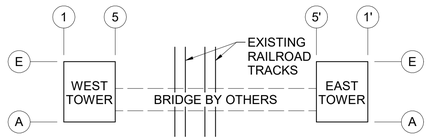


WEST TOWER - FOUNDATION PLAN

SCALE 1/4" = 1'-0"

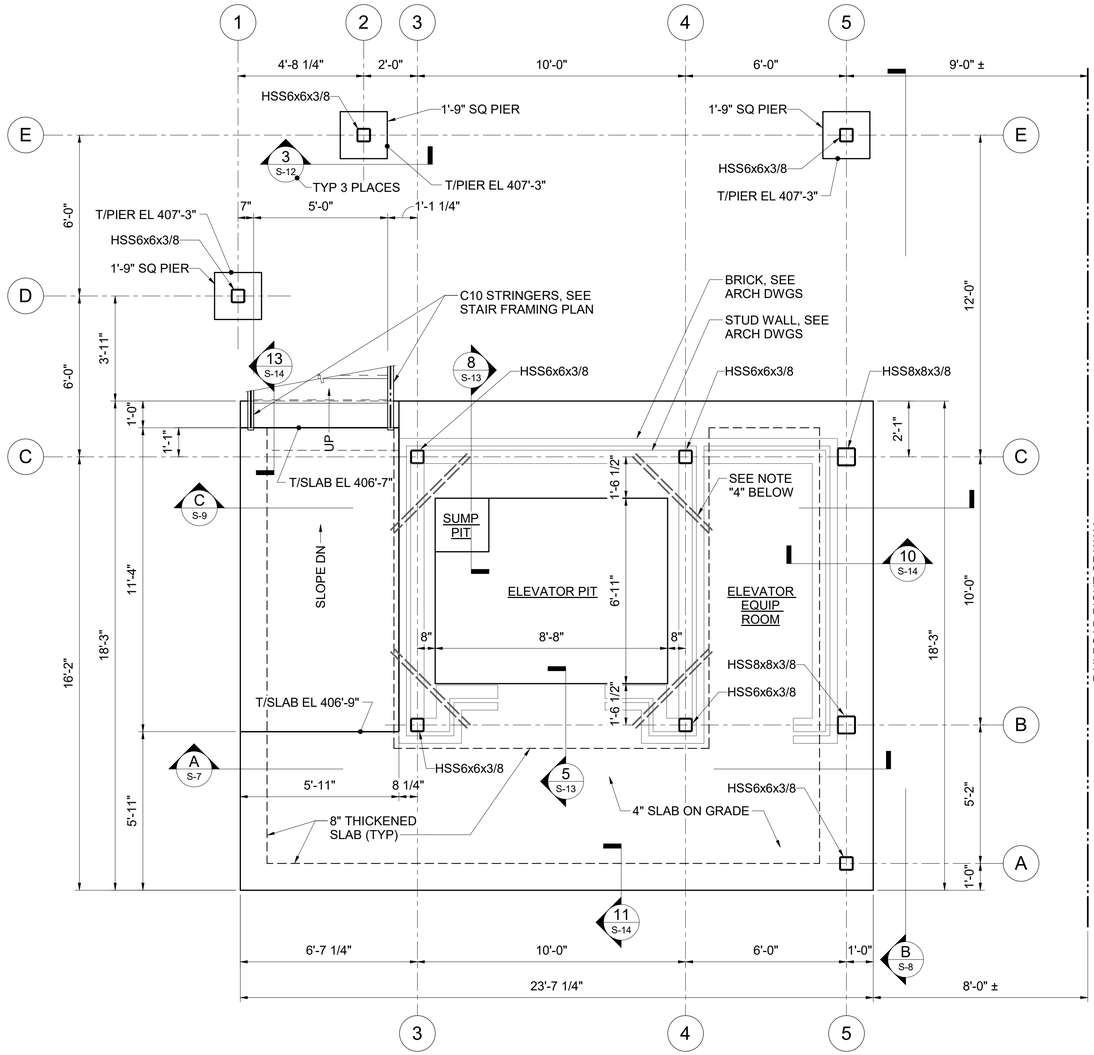
NOTES:

1. DESIGN SOIL BEARING CAPACITY = 2,000 PSF.
2. FIELD VERIFY LOCATION OF EXISTING UNDERGROUND PIPE PRIOR TO CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER IF FIELD CONDITIONS DIFFER FROM DETAILS SHOWN AND OBTAIN RESOLUTION PRIOR TO CONSTRUCTION.



KEY PLAN

NO SCALE



WEST TOWER - SLAB ON GRADE PLAN

SCALE 3/8" = 1'-0"

NOTES:

1. DESIGN SOIL BEARING CAPACITY = 2,000 PSF.
2. TOP OF SLAB ON GRADE EL 406'-9" UNO.
3. UNO, SLAB ON GRADE SHALL BE 4" THICK, REINFORCED w/ WWF6x6-W2.1xW2.1, PROVIDE 4" CGF UNDER SLAB.
4. PROVIDE (2) #4 x 4'-0" LG BARS IN CONC SLAB AT ALL REENTRANT CORNERS.

GRAPHIC SCALE:

Scale: 1/4" = 1' - 0"

4' 2' 0 4' 8'

Scale: 3/8" = 1' - 0"

2' 1' 0 2' 4' 6'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

NOLEN FRISA ASSOCIATES CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
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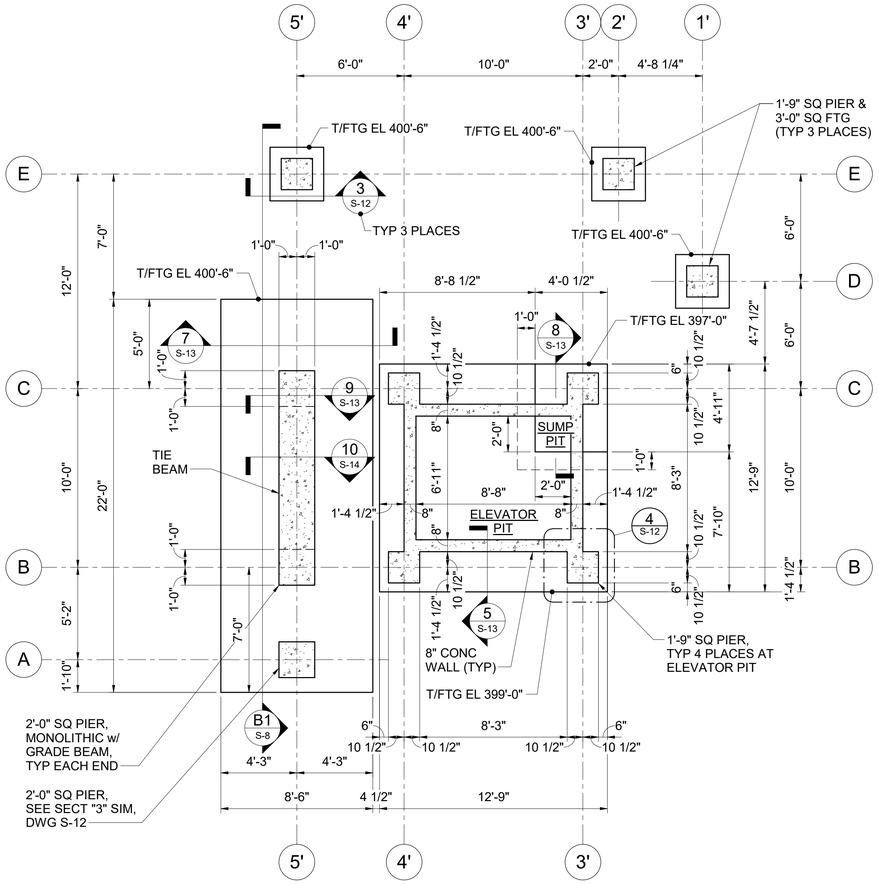
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY:	HAP/NFA
DRAWN BY:	RW/NFA
DIHR BY:	HFW
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA
TITLE:	WEST TOWER - FOUNDATION & SLAB PLANS
FILE NAME:	
DISCIPLINE:	STRUCTURAL
SET REV. NO.	1
DRAWING NUMBER:	S-2
SCALE:	AS SHOWN
DATE:	5/27/22

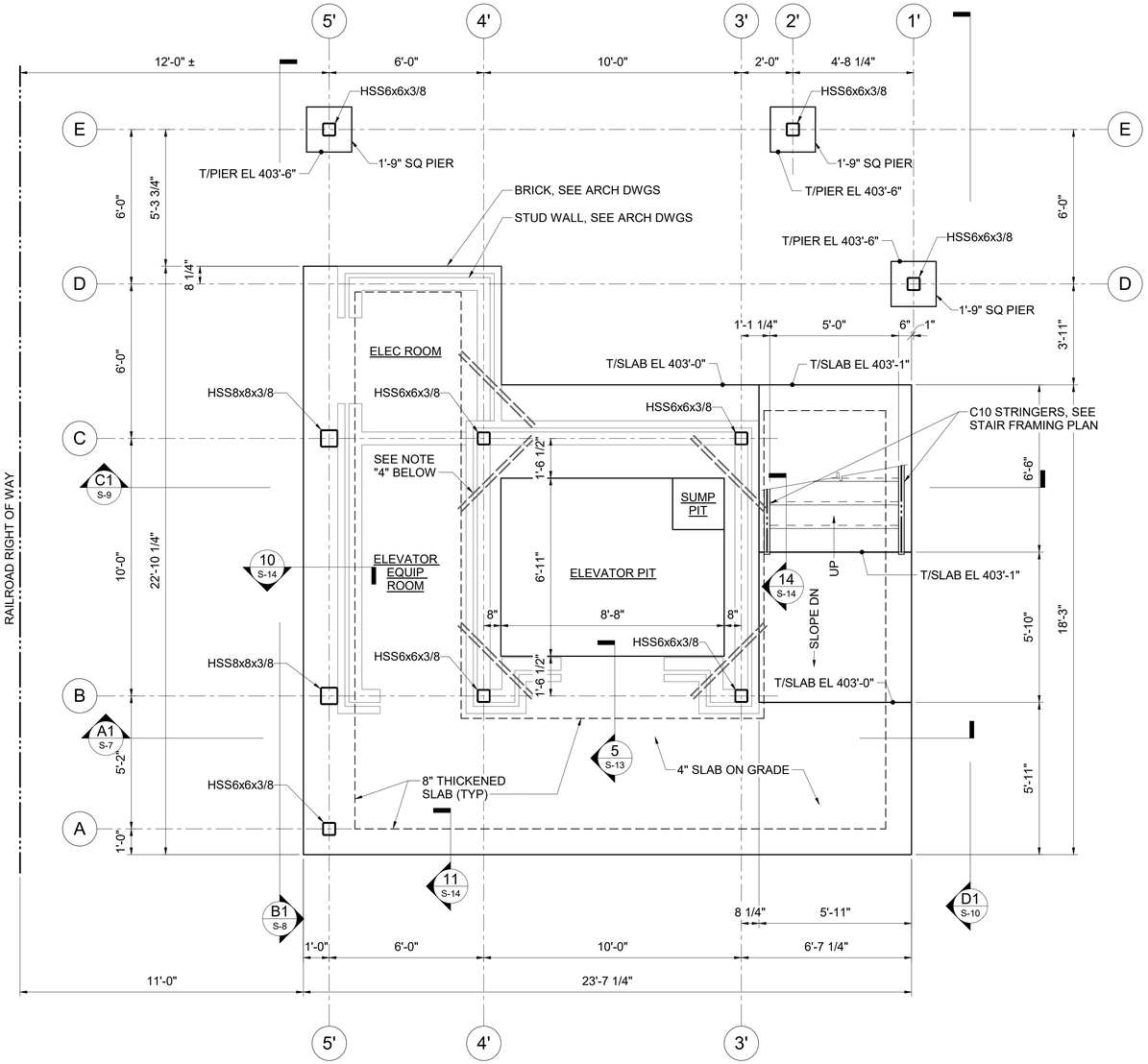


EAST TOWER - FOUNDATION PLAN

SCALE 1/4" = 1'-0"

NOTES:

1. DESIGN SOIL BEARING CAPACITY = 2,000 PSF.



EAST TOWER - SLAB ON GRADE PLAN

SCALE 3/8" = 1'-0"

NOTES:

1. DESIGN SOIL BEARING CAPACITY = 2,000 PSF.
2. TOP OF SLAB ON GRADE EL 403'-0" UNO.
3. UNO, SLAB ON GRADE SHALL BE 4" THICK, REINFORCED w/ WWF6x6-W2.1xW2.1, PROVIDE 4" CGF UNDER SLAB.
4. PROVIDE (2) #4 x 3'-0" LG BARS IN CONC SLAB AT ALL REENTRANT CORNERS

GRAPHIC SCALE:

Scale: 1/4" = 1' - 0"
4' 2' 0 4' 8'

Scale: 3/8" = 1' - 0"
2' 1' 0 2' 4' 6'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

nfa NOLEN FRISA ASSOCIATES CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
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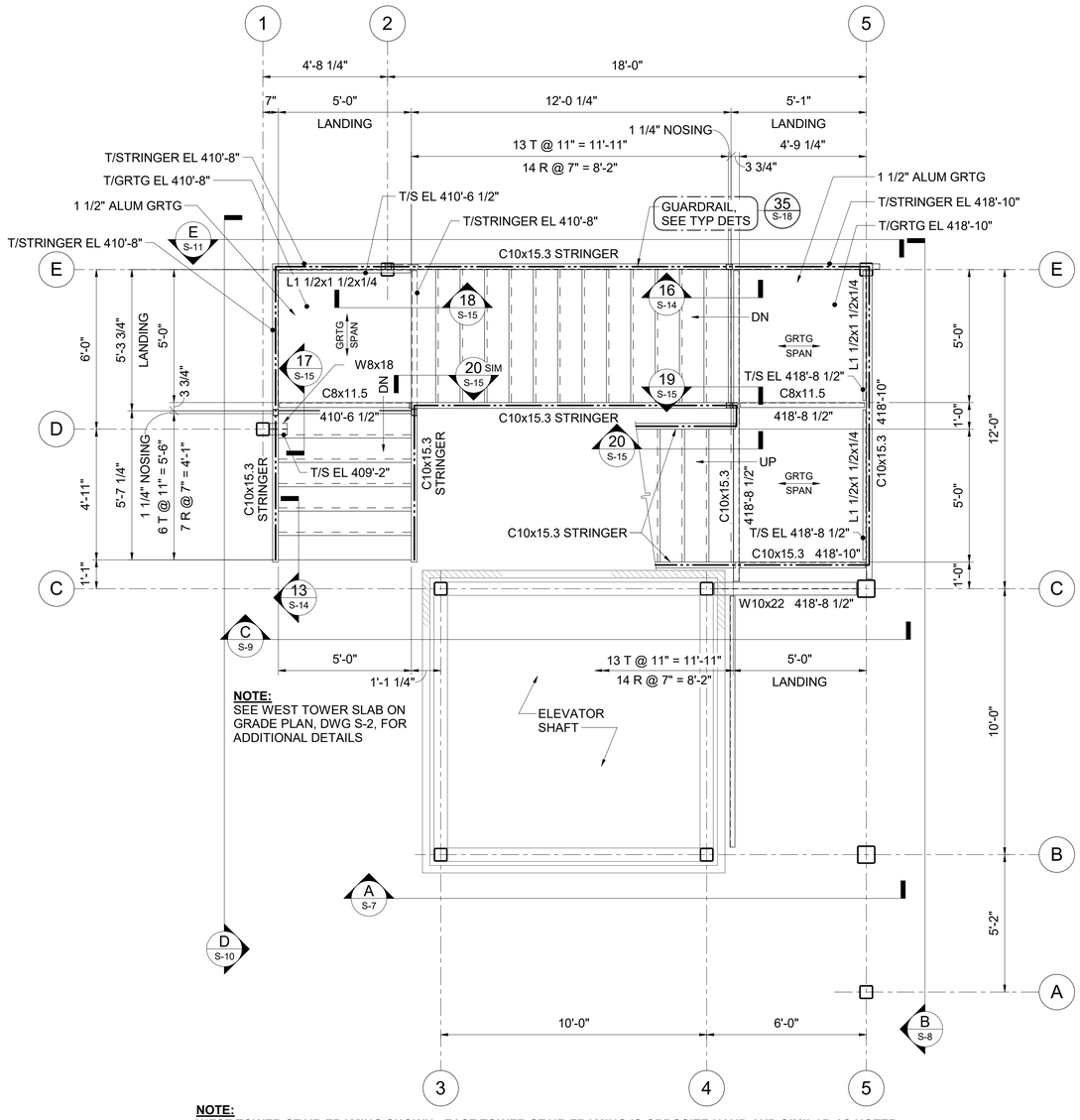
DESIGNED BY: HAP/NFA	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 1
DRAWN BY: RW/NFA	TITLE: EAST TOWER - FOUNDATION & SLAB PLANS		DRAWING NUMBER: S-3
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL / SCALE: AS SHOWN	DATE: 5/27/22



NOTE:
SEE WEST TOWER SLAB ON GRADE PLAN, DWG S-2, FOR ADDITIONAL DETAILS

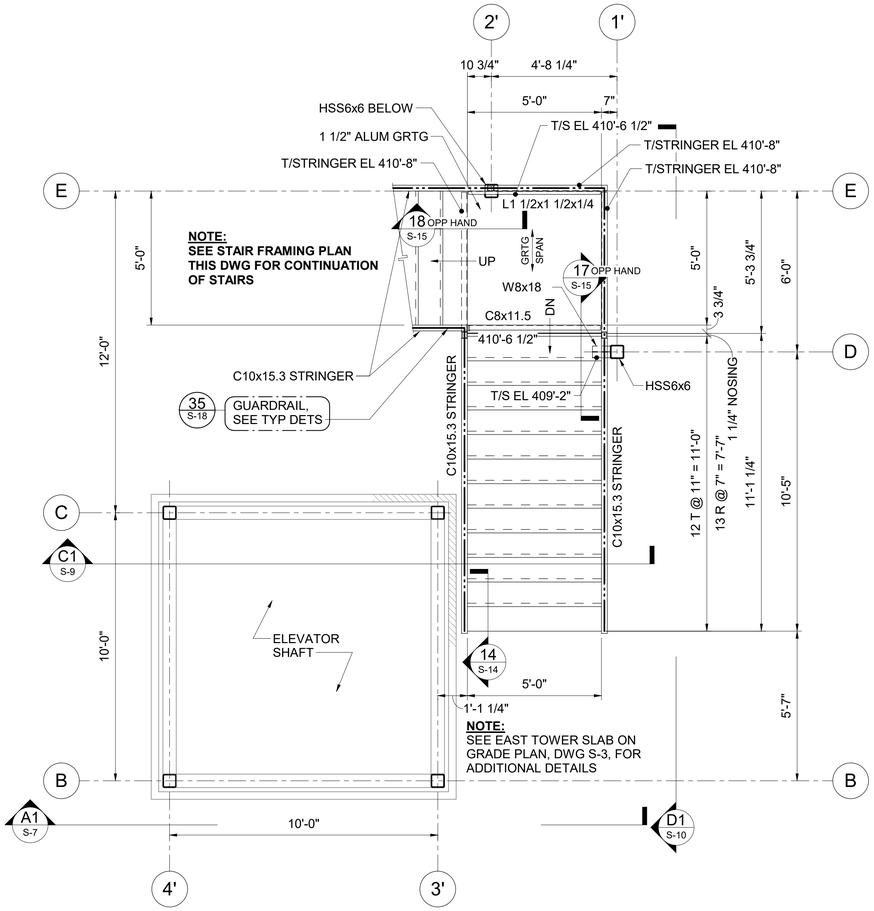
NOTE:
WEST TOWER STAIR FRAMING SHOWN. EAST TOWER STAIR FRAMING IS OPPOSITE HAND AND SIMILAR AS NOTED.

STAIR FRAMING PLAN - LANDINGS AT EL 410'-8" & EL 418'-10"

SCALE 3/8" = 1'-0"

NOTES:

1. DESIGN LIVE LOAD FOR STAIRS & LANDINGS = 100 PSF.



NOTE:
EAST TOWER STAIR FRAMING SHOWN. SEE STAIR FRAMING PLAN, THIS DWG, FOR STAIR FRAMING ABOVE EL 410'-8".

EAST STAIR FRAMING PLAN - LANDING AT EL 410'-8"

SCALE 3/8" = 1'-0"

NOTES:

1. DESIGN LIVE LOAD FOR STAIRS & LANDINGS = 100 PSF.

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

GRAPHIC SCALE:

Scale: 3/8" = 1' - 0"

2' 1' 0 2' 4' 6'

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CONSULTING ENGINEERS
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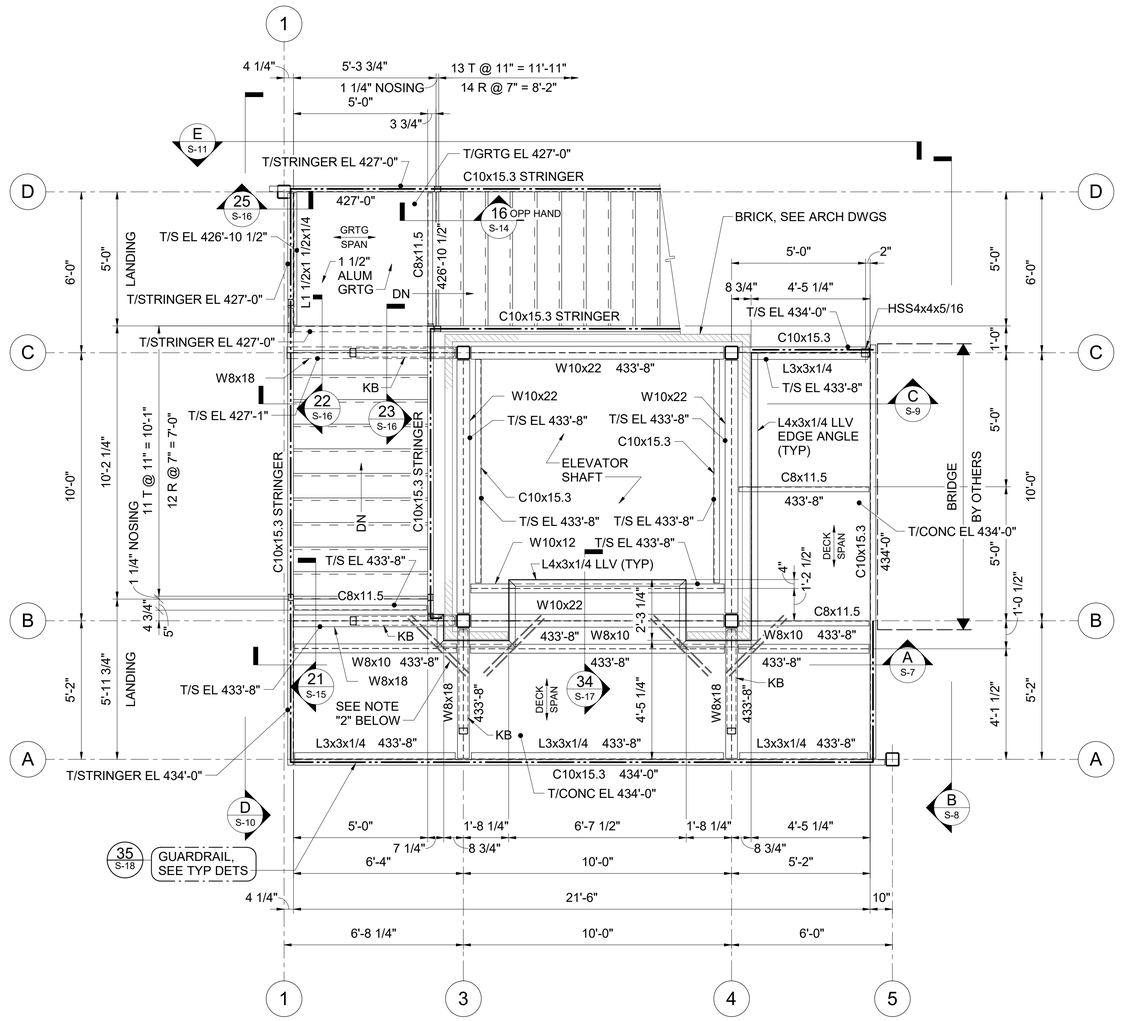
COMMONWEALTH OF VIRGINIA
H. ANTHONY PACE
Lic. No. 040176
5/27/2022
PROFESSIONAL ENGINEER

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY:	HAP/NFA
DRAWN BY:	RW/NFA
DIHR BY:	HFW
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA
TITLE:	STAIR FRAMING PLANS - EL 410'-8" & EL 418'-10"
FILE NAME:	
DISCIPLINE:	STRUCTURAL
SCALE:	AS SHOWN
SET REV. NO.	1
DRAWING NUMBER:	S-4
DATE:	5/27/22



NOTE:
WEST TOWER STAIR FRAMING SHOWN. EAST TOWER STAIR FRAMING IS OPPOSITE HAND.

STAIR FRAMING PLAN - LANDINGS AT EL 427'-0" & 434'-0"

SCALE 3/8" = 1'-0"

NOTES:

1. DESIGN LIVE LOAD FOR STAIRS & LANDINGS = 100 PSF.
2. PROVIDE (2) #4 x 3'-0" LG BARS IN CONC SLAB AT ALL REENTRANT CORNERS.

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

GRAPHIC SCALE:

Scale: 3/8" = 1' - 0"

2' 1' 0 2' 4' 6'

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276
NFA PROJECT No. 21429

NO.	SHEET REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RW	11/11/22

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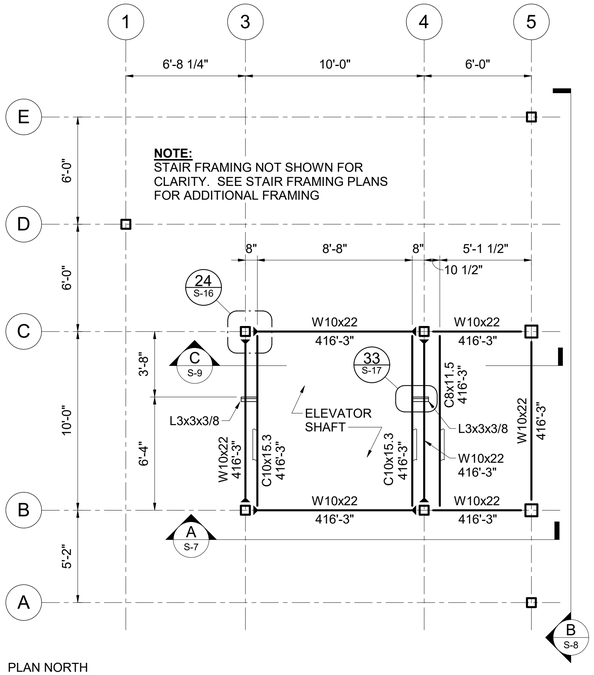
TITLE:	STAIR FRAMING PLAN - EL 427'-0" & EL 434'-0"
FILE NAME:	
DISCIPLINE:	STRUCTURAL
SCALE:	AS SHOWN
DATE:	5/27/22
SET REV. NO.	1
DRAWING NUMBER:	S-5

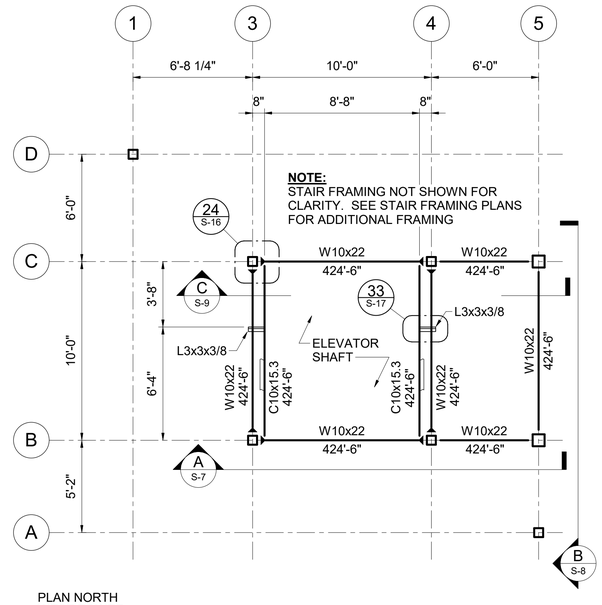


PLAN NORTH
WEST TOWER

FRAMING PLAN - EL 416'-3"

SCALE 1/4" = 1'-0"

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND

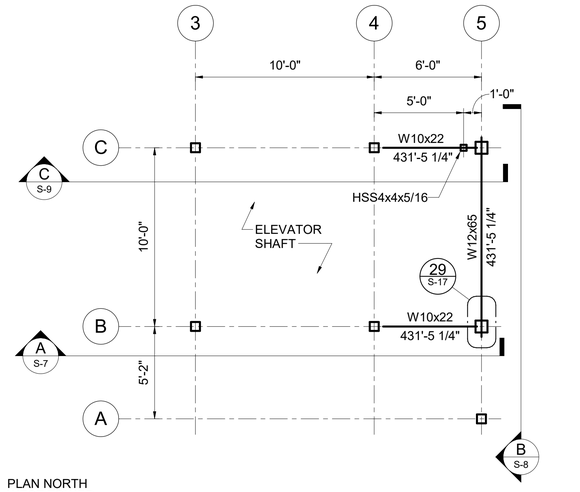


PLAN NORTH
WEST TOWER

FRAMING PLAN - EL 424'-6"

SCALE 1/4" = 1'-0"

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND

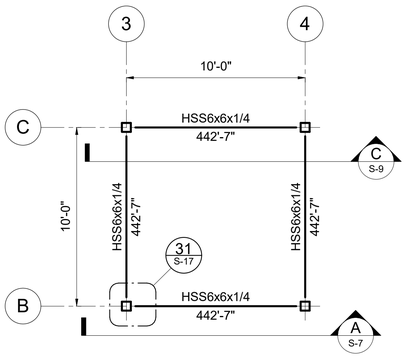


PLAN NORTH
WEST TOWER

FRAMING PLAN AT BRIDGE BEARING

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND

SCALE 1/4" = 1'-0"

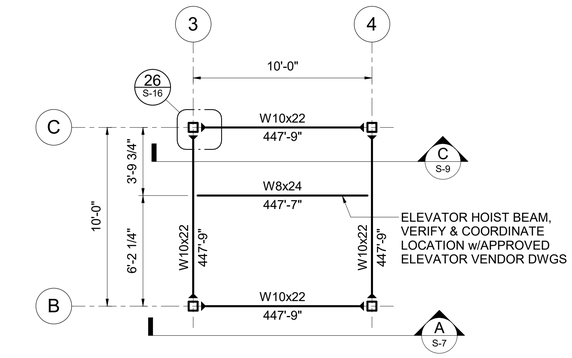


PLAN NORTH
WEST TOWER

FRAMING PLAN - EL 442'-7"

SCALE 1/4" = 1'-0"

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND



PLAN NORTH
WEST TOWER

FRAMING PLAN - EL 447'-9"

SCALE 1/4" = 1'-0"

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND

NOTE:
ROOF FRAMING IS A DELEGATED DESIGN AND SHALL CONSIST OF COLD FORMED STEEL FRAMING ELEMENTS.

PLAN NORTH
WEST TOWER

ROOF FRAMING PLAN

SCALE 1/4" = 1'-0"

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND

GRAPHIC SCALE:

Scale: 1/4" = 1' - 0"

4' 2' 0 4' 8'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276
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H. ANTHONY PACE
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WW ASSOCIATES
ENGINEERS
SURVEYORS
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PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Glyngrig Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
WWW.WWASSOCIATES.NET

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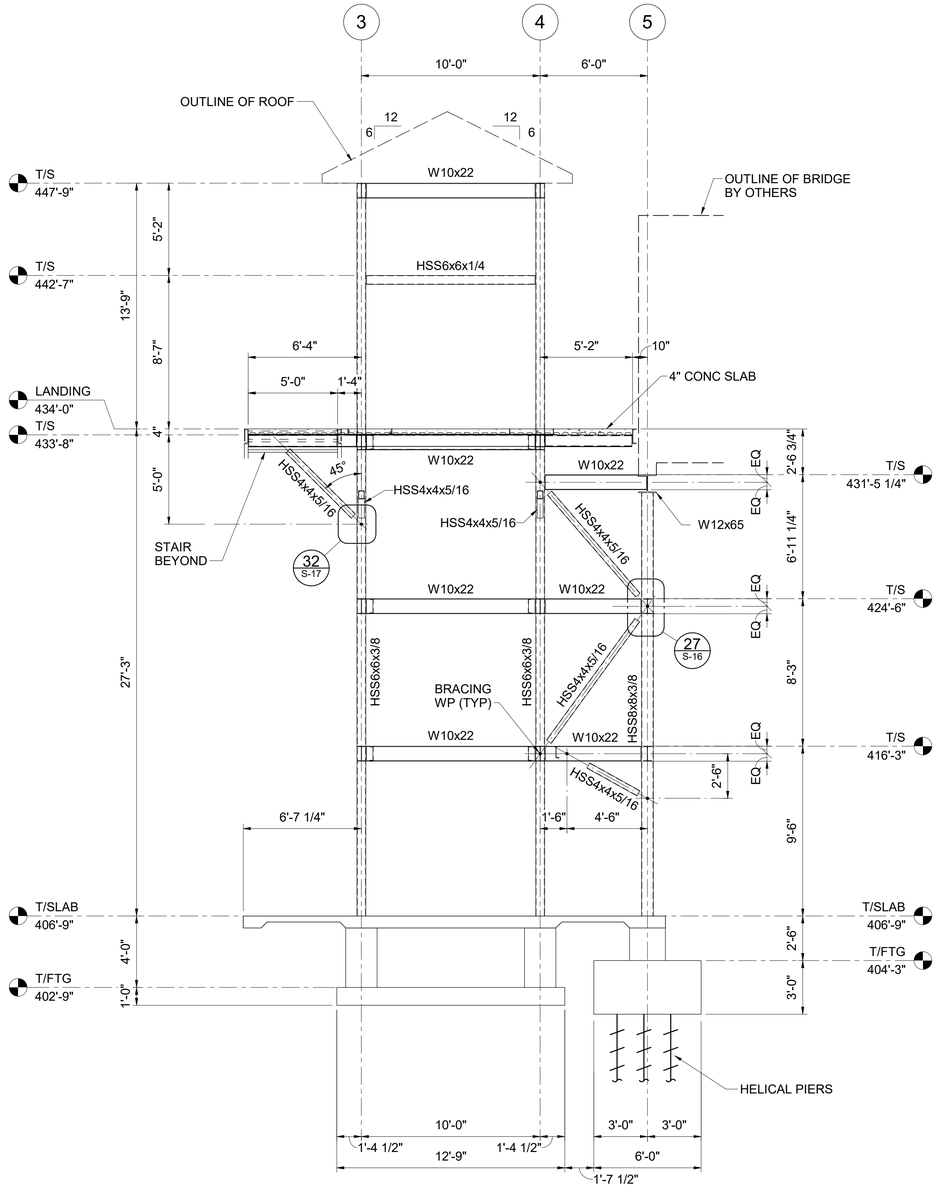
DIHR BY:	HFW
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA
TITLE:	ELEVATOR SHAFT FRAMING PLANS
FILE NAME:	
DISCIPLINE:	STRUCTURAL
SCALE:	AS SHOWN
SET REV. NO.	1
DRAWING NUMBER:	S-6
DATE:	5/27/22

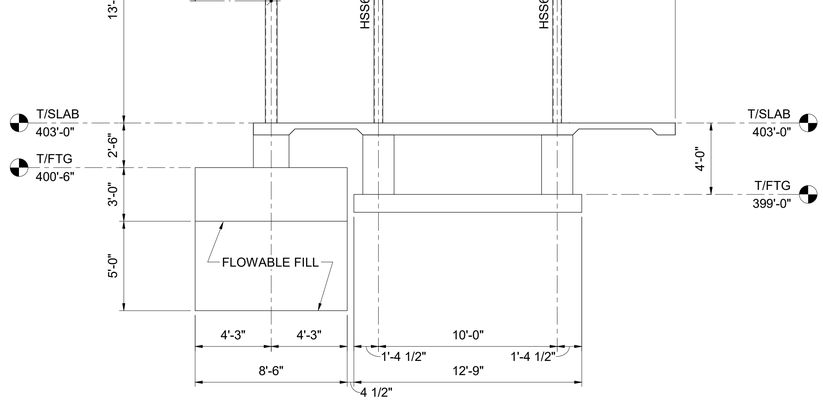


ELEVATION VIEW AT GRID "B"

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND & SIMILAR

A S-2 | S-7 ELEVATION
1/4" = 1'-0"

NOTE:
FOR FRAMING ABOVE EL 416'-3", SEE ELEVATION "A" OPP HAND, THIS DWG



ELEVATION VIEW AT GRID "B"

EAST TOWER FRAMING ONLY

A1 S-3 | S-7 ELEVATION
1/4" = 1'-0"

GRAPHIC SCALE:
Scale: 1/4" = 1' - 0"
4' 2' 0 4' 8'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

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103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276

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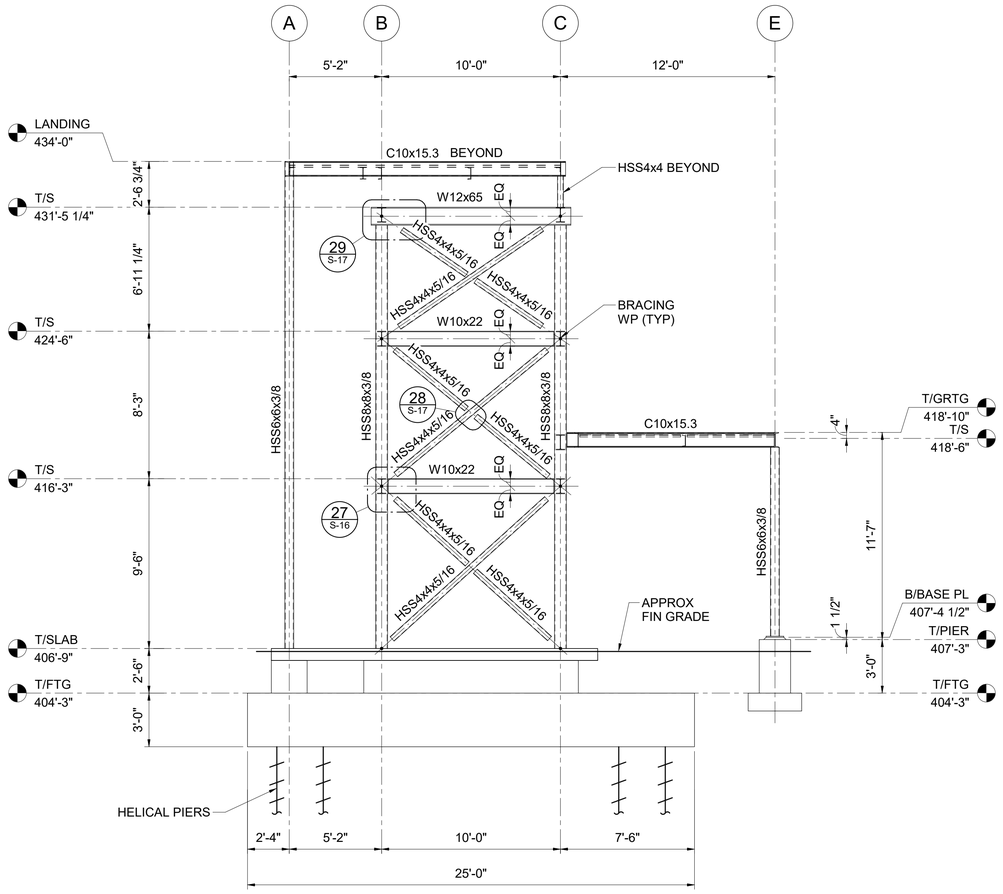
WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: HAP/NFA	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 1
DRAWN BY: RW/NFA	TITLE: FRAMING ELEVATIONS - SHEET 1		DRAWING NUMBER: S-7
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL / SCALE: AS SHOWN	DATE: 5/27/22

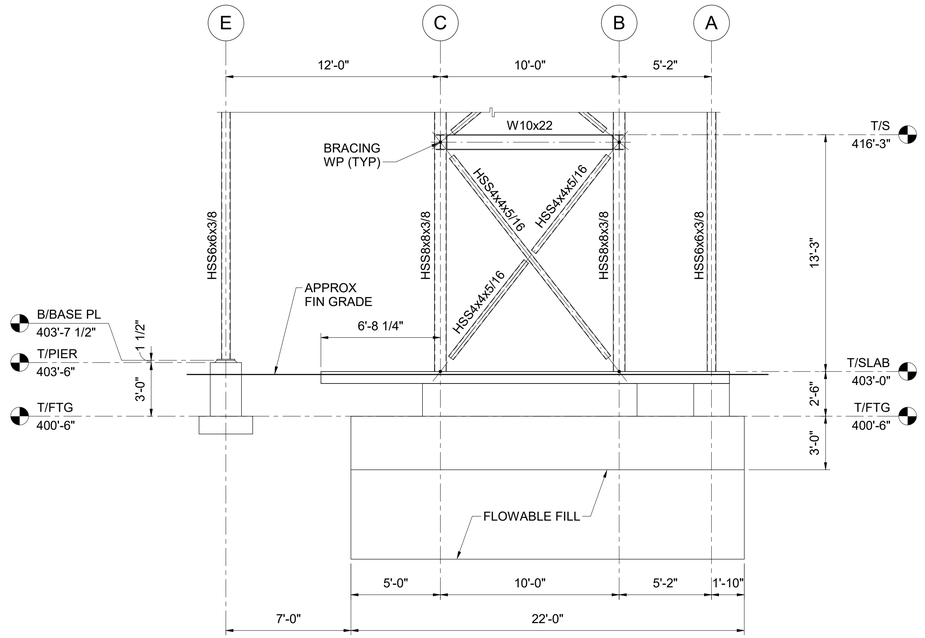


ELEVATION VIEW AT GRID 5

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND & SIMILAR

B — ELEVATION (S-2 | S-8)
1/4" = 1'-0"

NOTE:
FOR FRAMING ABOVE EL 416'-3", SEE ELEVATION "B" OPP HAND, THIS DWG



ELEVATION VIEW AT GRID 5'

EAST TOWER FRAMING ONLY

B1 — ELEVATION (S-3 | S-8)
1/4" = 1'-0"

GRAPHIC SCALE:
Scale: 1/4" = 1' - 0"
4' 2' 0 4' 8'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

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CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
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ENGINEERS SURVEYORS PLANNERS
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968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

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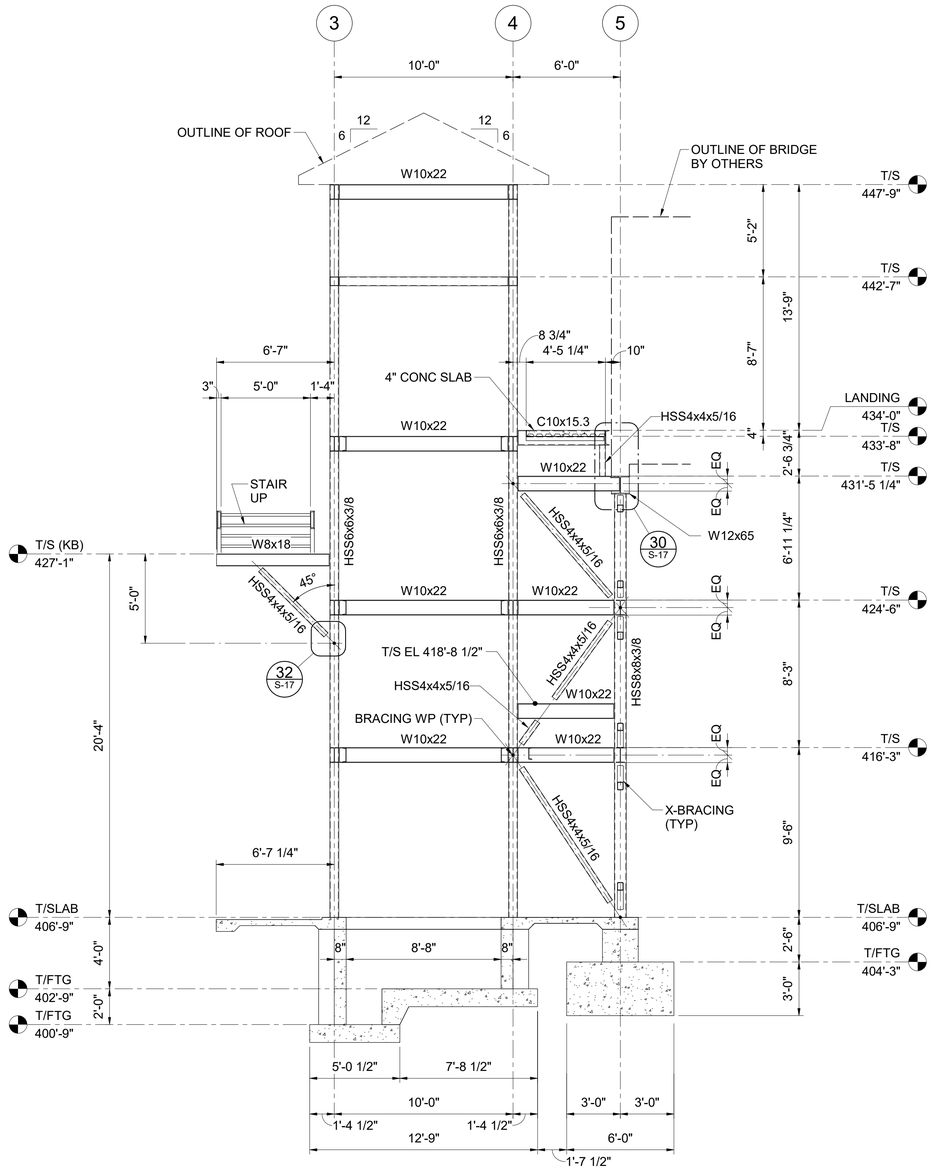
DRAWN BY: RW/NFA	TITLE: FRAMING ELEVATIONS - SHEET 2		DRAWING NUMBER: S-8
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL	SCALE: AS SHOWN / DATE: 5/27/22

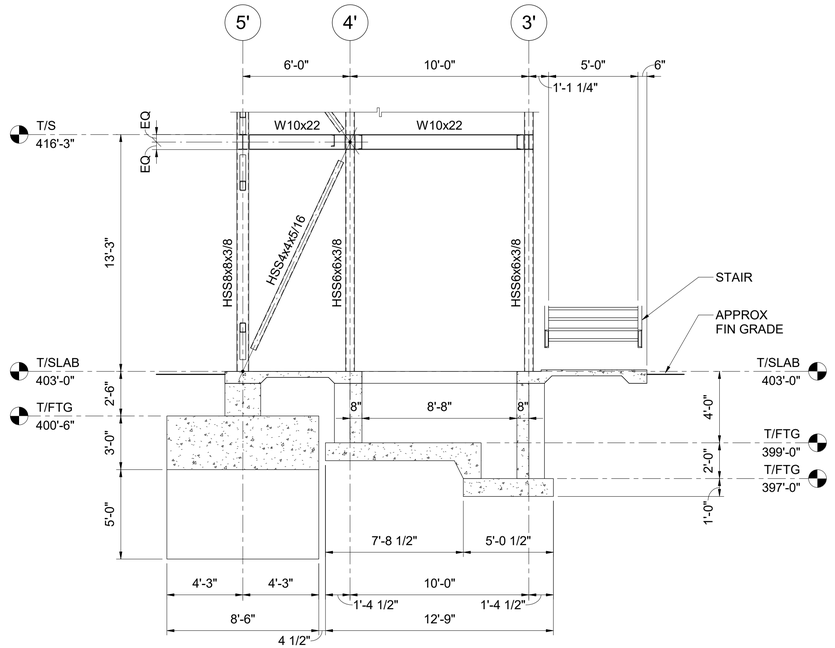


ELEVATION VIEW AT GRID C

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND & SIMILAR

C (S-2 | S-9) ELEVATION
1/4" = 1'-0"

NOTE:
FOR FRAMING ABOVE EL 416'-3", SEE ELEVATION "C" OPP HAND, THIS DWG



ELEVATION VIEW AT GRID C

EAST TOWER FRAMING ONLY

C1 (S-3 | S-9) ELEVATION
1/4" = 1'-0"

GRAPHIC SCALE:
Scale: 1/4" = 1' - 0"
4' 2' 0 4' 8'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276

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ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2790
www.wwassociates.net

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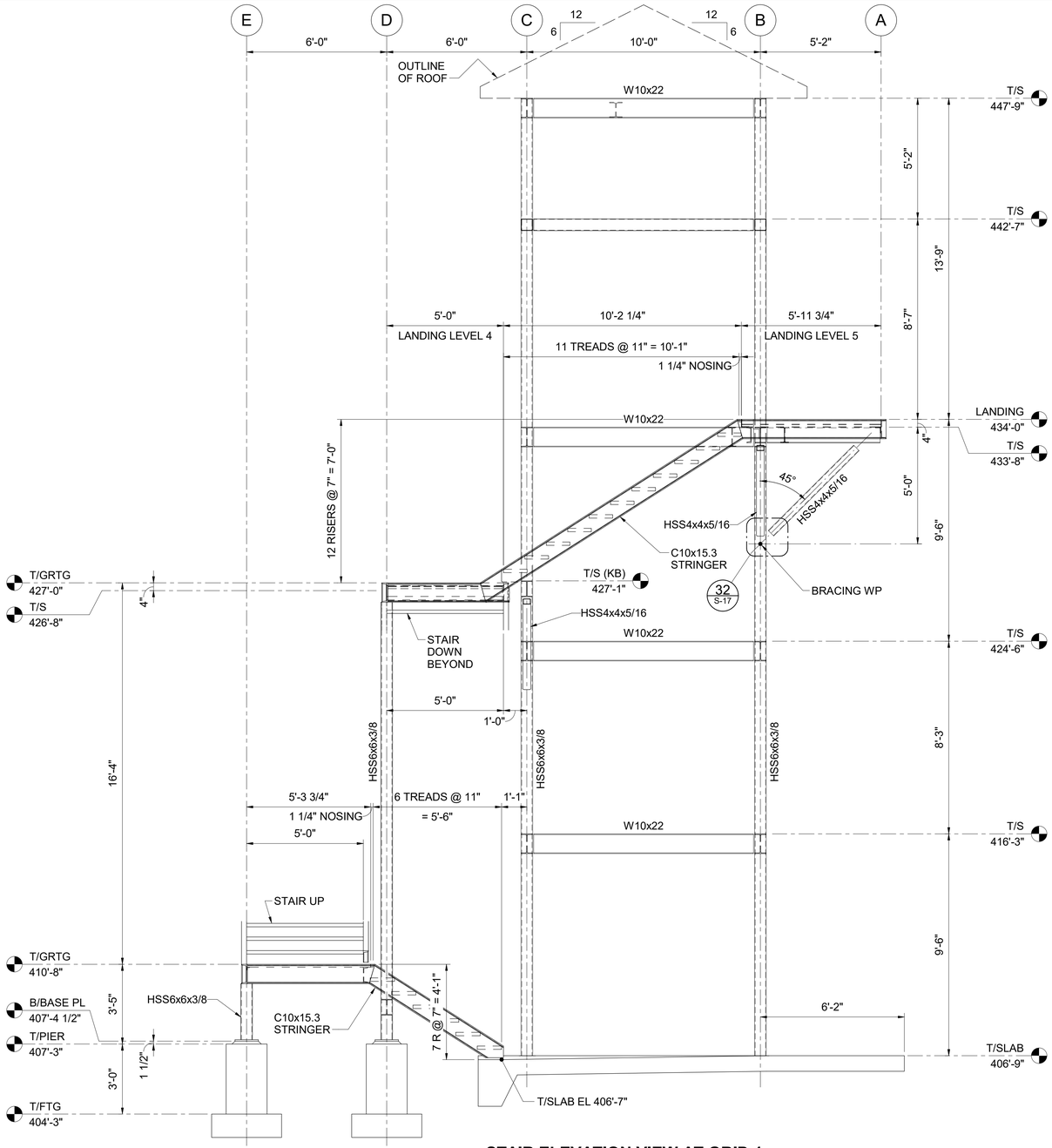
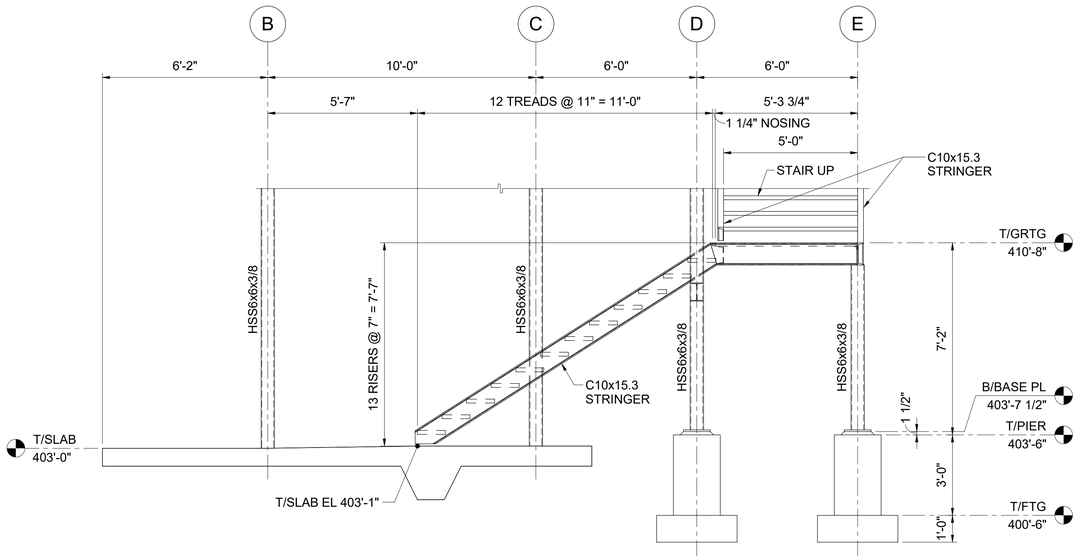
DRAWN BY: RW/NFA	TITLE: FRAMING ELEVATIONS - SHEET 3		DRAWING NUMBER: S-9
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL / SCALE: AS SHOWN	DATE: 5/27/22



STAIR ELEVATION VIEW AT GRID 1

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND & SIMILAR

D ELEVATION
S-4 | S-10 3/8" = 1'-0"



STAIR ELEVATION VIEW AT GRID 1'

EAST TOWER FRAMING ONLY

D1 ELEVATION
S-3 | S-10 3/8" = 1'-0"

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

GRAPHIC SCALE:
Scale: 3/8" = 1' - 0"
2' 1' 0 2' 4' 6'

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4360 FAX (434)385-4276

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WW ASSOCIATES
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968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
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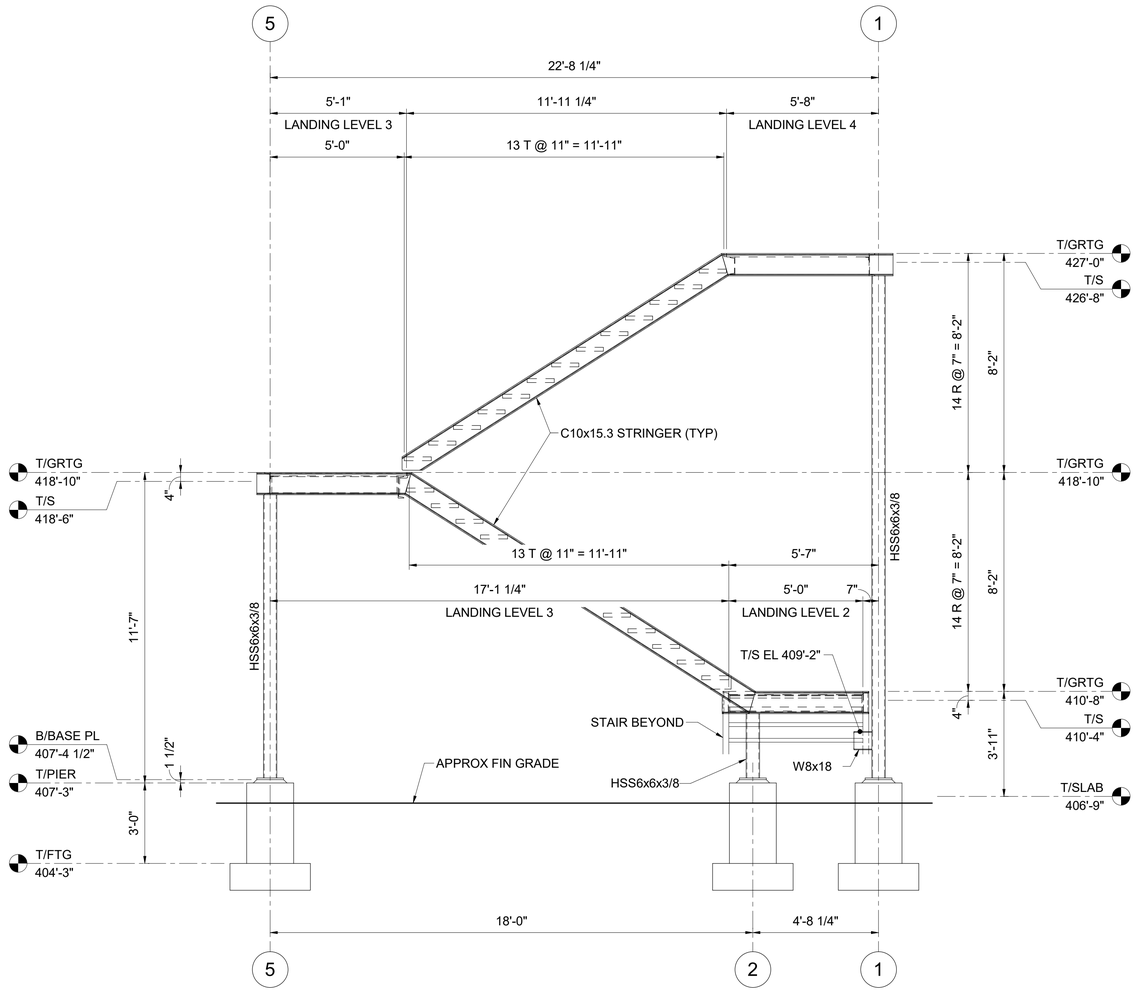
DRAWN BY: RW/NFA	TITLE: FRAMING ELEVATIONS - SHEET 4		DRAWING NUMBER: S-10
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL / SCALE: AS SHOWN	DATE: 5/27/22



STAIR ELEVATION VIEW AT GRID "E"

WEST TOWER FRAMING AS SHOWN
EAST TOWER FRAMING OPPOSITE HAND

E — ELEVATION
S-4 | S-11 — 3/8" = 1'-0"

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

GRAPHIC SCALE:

Scale: 3/8" = 1' - 0"

2' 1' 0 2' 4' 6'

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276

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ENGINEERS SURVEYORS PLANNERS
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968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
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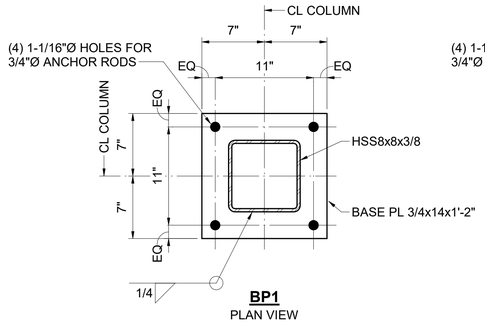
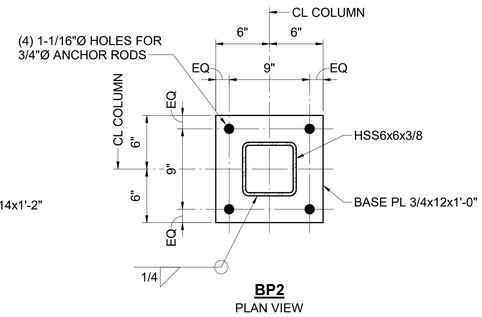
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA
TITLE:	FRAMING ELEVATIONS - SHEET 5
FILE NAME:	
DISCIPLINE:	STRUCTURAL
SCALE:	AS SHOWN
SET REV. NO.	1
DRAWING NUMBER:	S-11
DATE:	5/27/22



BP1
PLAN VIEW

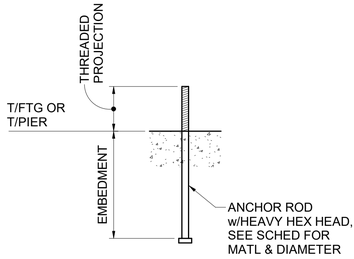


BP2
PLAN VIEW

COLUMN BASE PLATE DETAILS

NOTE:
WHERE BASE OF STEEL COLUMNS ARE ENCASED IN CONCRETE, PROVIDE 1/2" ISOLATION JOINT WITH SEALANT AT PERMITER OF ENCASED PORTION OF COLUMN.

1 DETAIL
S-12 | S-12 1 1/2" = 1'-0"



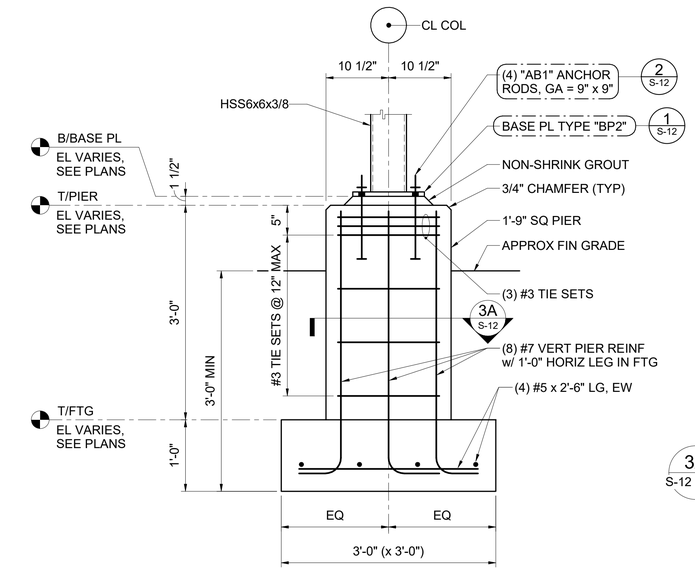
SECTION VIEW

ANCHOR ROD SCHEDULE

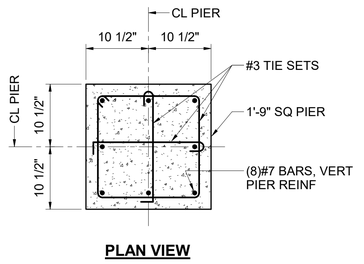
MARK	MATL	DIAMETER	EMBEDMENT	THD PROJ
AB1	ASTM F1554 GRADE 36	3/4"	9"	5"
AB2	ASTM F1554 GRADE 36	3/4"	3'-0"	5"

ANCHOR ROD DETAILS AND SCHEDULE

2 DETAIL
S-12 | S-12 1 1/2" = 1'-0"

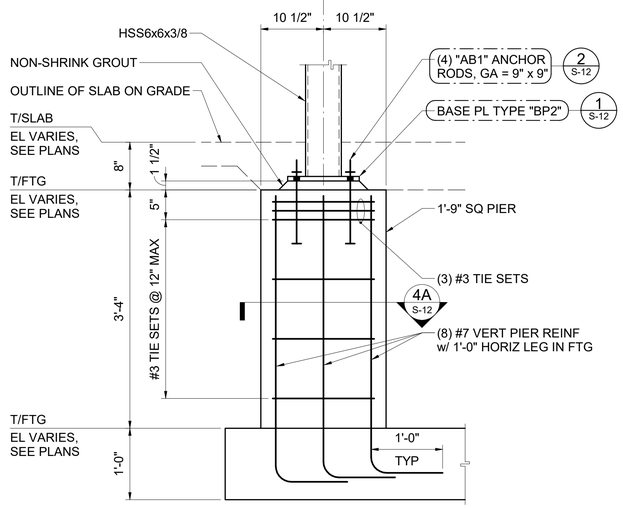


3 SECTION
S-2 | S-12 | S-3 1" = 1'-0"



PLAN VIEW

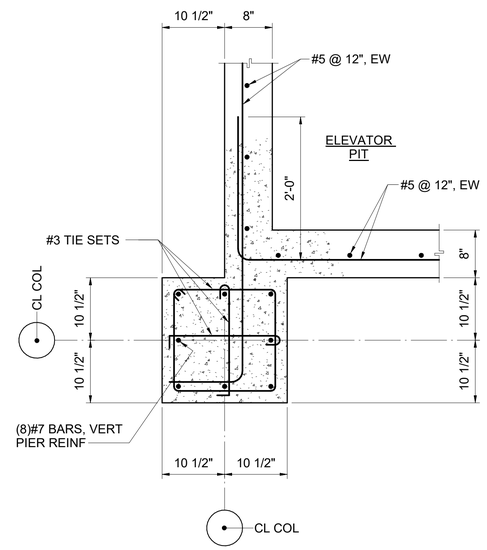
3A DETAIL
S-12 | S-12 1" = 1'-0"



SECTION VIEW

TYPICAL PIER AT ELEVATOR PIT

4 DETAIL
S-2 | S-12 | S-3 1" = 1'-0"



PLAN VIEW

TYPICAL PIER AT ELEVATOR PIT

4A DETAIL
S-12 | S-12 1" = 1'-0"

GRAPHIC SCALE:

Scale: 1" = 1' - 0"
1' 6" 0 1' 2'

Scale: 1 1/2" = 1' - 0"
1' 9" 6" 3" 0 1'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
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WW ASSOCIATES
ENGINEERS
SURVEYORS
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PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6000
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

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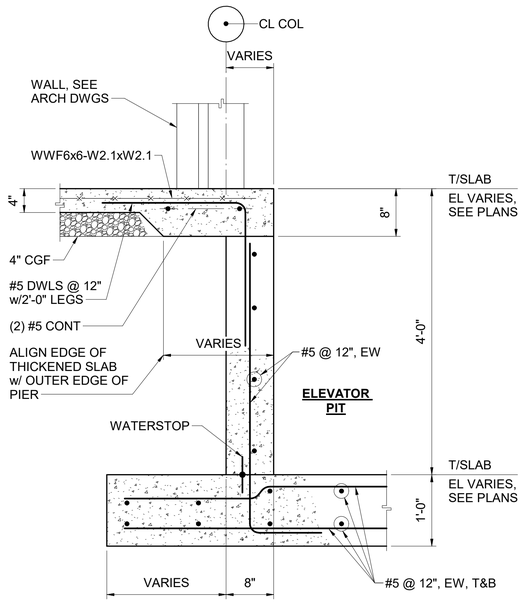
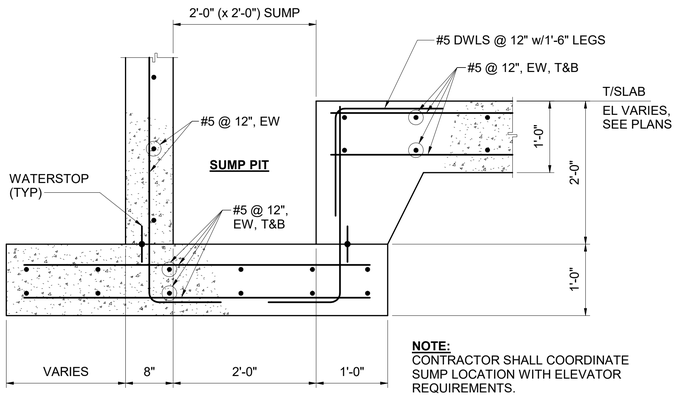
DRAWN BY:	RW/NFA
DIHR BY:	HFW
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA
TITLE:	SECTIONS AND DETAILS - SHEET 1
FILE NAME:	
DISCIPLINE:	STRUCTURAL
SCALE:	AS SHOWN
SET REV. NO.	1
DRAWING NUMBER:	S-12
DATE:	5/27/22



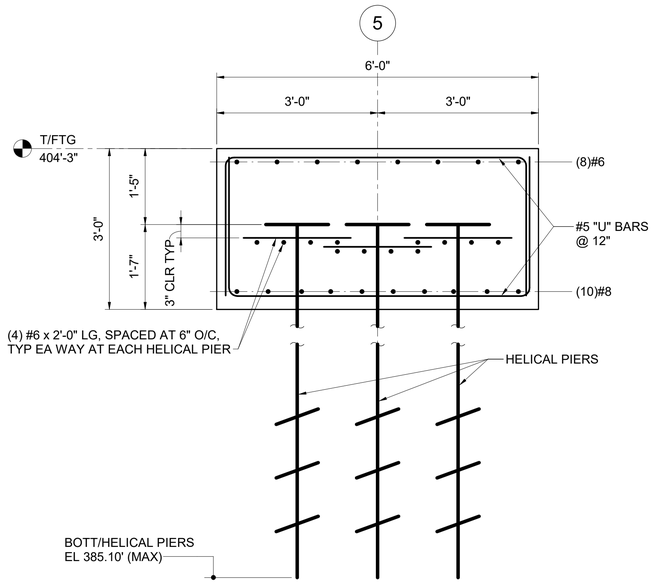
NOTE:
CONTRACTOR SHALL COORDINATE ELEVATOR PIT DIMENSIONS AND DEPTH WITH CERTIFIED VENDOR DWGS FOR ELEVATOR UNIT SUPPLIED.

5 SECTION
S-2 S-13 S-3 1" = 1'-0"



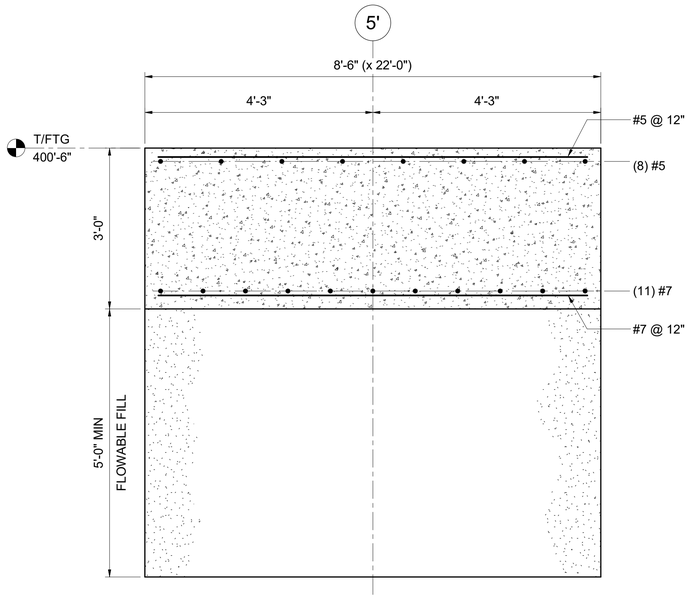
NOTE:
CONTRACTOR SHALL COORDINATE SUMP LOCATION WITH ELEVATOR REQUIREMENTS.

8 SECTION
S-2 S-13 S-3 1" = 1'-0"



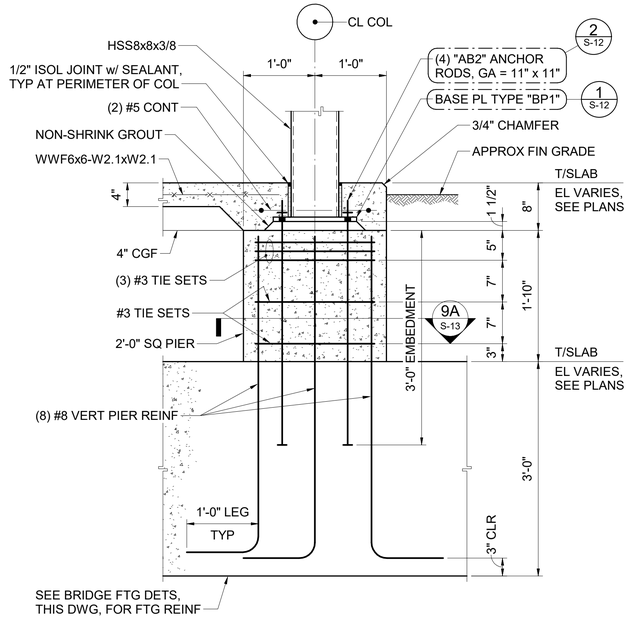
BRIDGE FOOTING AT WEST TOWER

6 SECTION
S-2 S-13 3/4" = 1'-0"



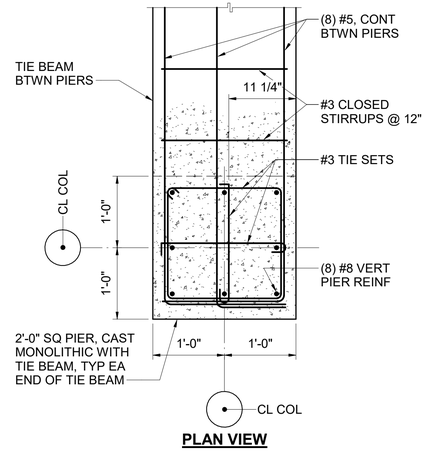
BRIDGE FOOTING AT EAST TOWER

7 SECTION
S-3 S-13 3/4" = 1'-0"



PIER SECTION AT BRIDGE FTG

9 SECTION
S-2 S-13 1" = 1'-0"



PLAN VIEW

PIER DETAIL AT BRIDGE FTG

9A DETAIL
S-13 S-13 1" = 1'-0"

GRAPHIC SCALE:

Scale: 3/4" = 1' - 0"
1' 6" 0 1' 2' 3'

Scale: 1" = 1' - 0"
1' 6" 0 1' 2'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

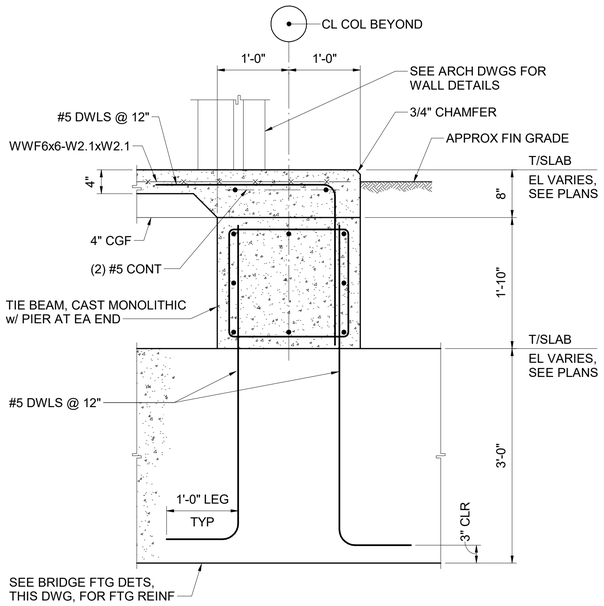
NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276
NFA PROJECT No. 21429

NO.	SHEET REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RW	11/11/22

COMMONWEALTH OF VIRGINIA
H. ANTHONY PACE
Lic. No. 040176
5/27/2022
PROFESSIONAL ENGINEER

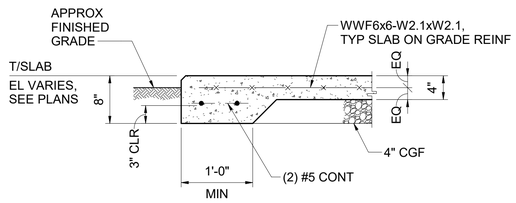
WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY:	HAP/NFA
DRAWN BY:	RW/NFA
DIHR BY:	HFW
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA
TITLE:	SECTIONS AND DETAILS - SHEET 2
FILE NAME:	
DISCIPLINE:	STRUCTURAL
SCALE:	AS SHOWN
SET REV. NO.	1
DRAWING NUMBER:	S-13
DATE:	5/27/22



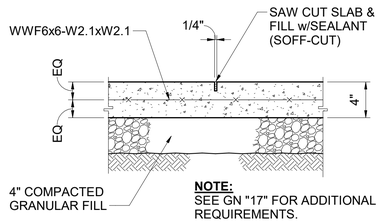
TIE BEAM AT BRIDGE FTG

10 SECTION
S-2 | S-14 1" = 1'-0"



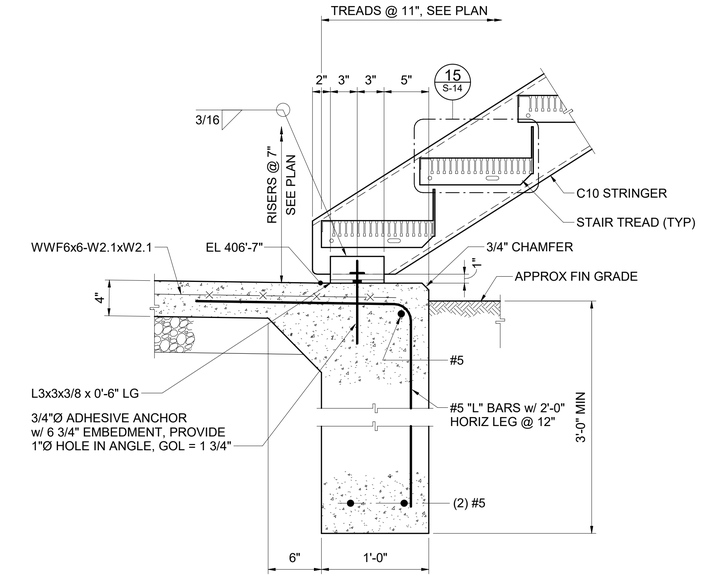
TYPICAL THICKENED SLAB EDGE

11 SECTION
S-2 | S-14 1" = 1'-0"

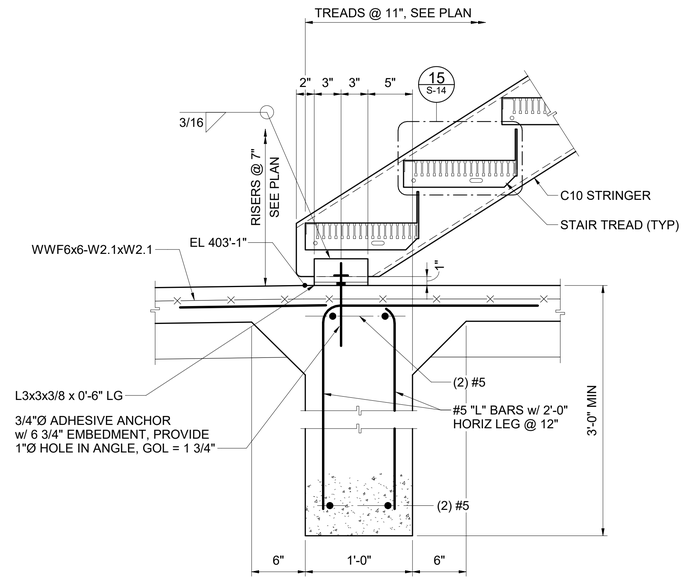


CONTROL JOINT - SECTION VIEW

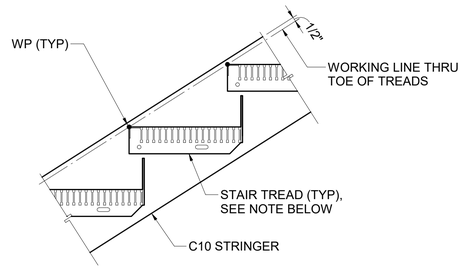
12 DETAIL
S-14 1 1/2" = 1'-0"



13 SECTION
S-2 | S-14 1 1/2" = 1'-0"



14 SECTION
S-3 | S-14 1 1/2" = 1'-0"



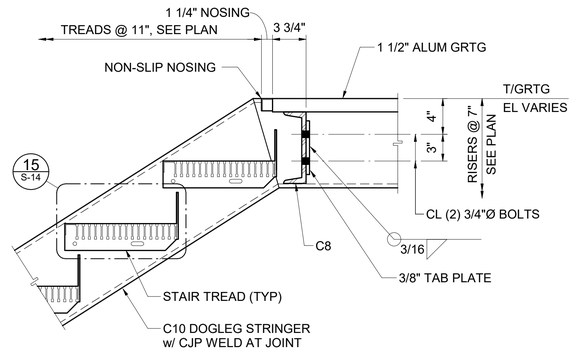
SECTION VIEW

NOTES:

1. STAIR TREADS SHALL BE ALUMIMUM I-BAR SGI SERIES GRATING TREADS WITH (17) 1-3/4" BY 1/4" STRIATED BEARING BARS SPACED AT 11/16" ON CENTER AND CROSS BARS AT 4" ON CENTER. TREADS SHALL HAVE GROOVED NON-SLIP NOSING. TREADS SHALL HAVE INTEGRAL TOE PLATE AT BACK OF TREAD. TREADS SHALL HAVE MILL FINISH.
2. FASTEN TREADS TO STRINGER WITH 3/8"Ø ASTM F593 STAINLESS STEEL BOLTS, ASTM F594 TYPE 304 STAINLESS STEEL NUTS, & STAINLESS STEEL FLAT WASHERS. (2) BOLTS EACH END OF TREAD.
3. ISOLATE ALUMINUM FROM DISSIMILAR MATERIALS WITH 1/16" THICK BUTYL RUBBER OR TEFLON SHEET.

TYPICAL STAIR DETAIL

15 DETAIL
S-14 | S-14 1 1/2" = 1'-0"



16 SECTION
S-4 | S-14 1 1/2" = 1'-0"

GRAPHIC SCALE:

Scale: 1" = 1' - 0"
1' 6" 0 1' 2'

Scale: 1 1/2" = 1' - 0"
1' 9" 6" 3" 0 1'

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276
NFA PROJECT No. 21429

NO.	SHEET REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RW	11/11/22

COMMONWEALTH OF VIRGINIA
H. ANTHONY PACE
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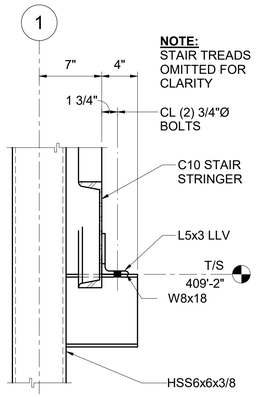
5/27/2022
PROFESSIONAL ENGINEER

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

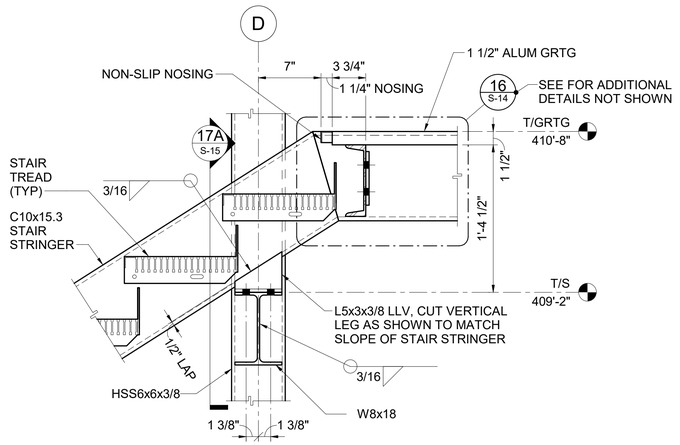
DESIGNED BY: HAP/NFA	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 1
DRAWN BY: RW/NFA	TITLE: SECTIONS AND DETAILS - SHEET 3		DRAWING NUMBER: S-14
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL / SCALE: AS SHOWN	DATE: 5/27/22



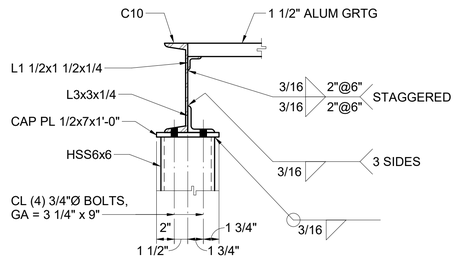
NOTE:
STAIR TREADS OMITTED FOR CLARITY

SECTION VIEW

17A S-15 | S-15 SECTION
1 1/2" = 1'-0"

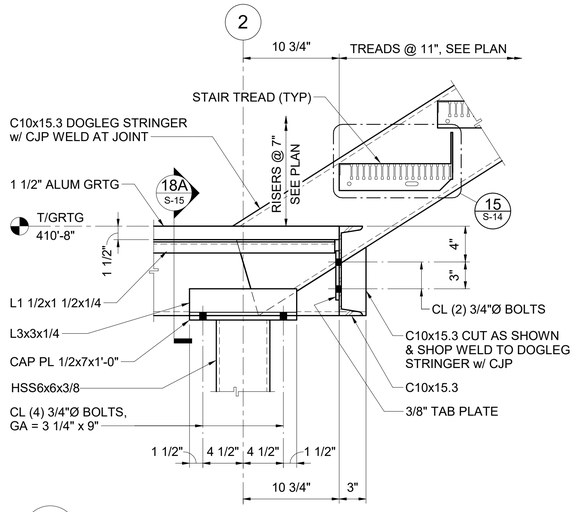


17 S-4 | S-15 SECTION
1 1/2" = 1'-0"

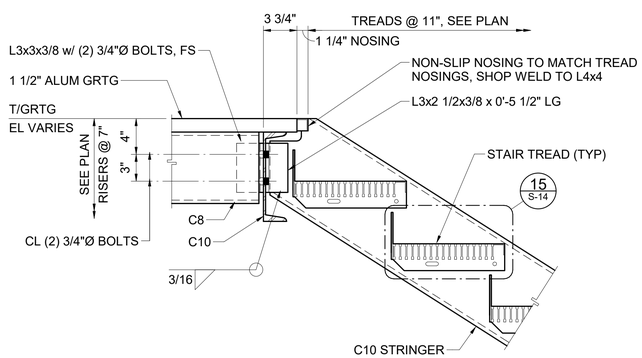


SECTION VIEW

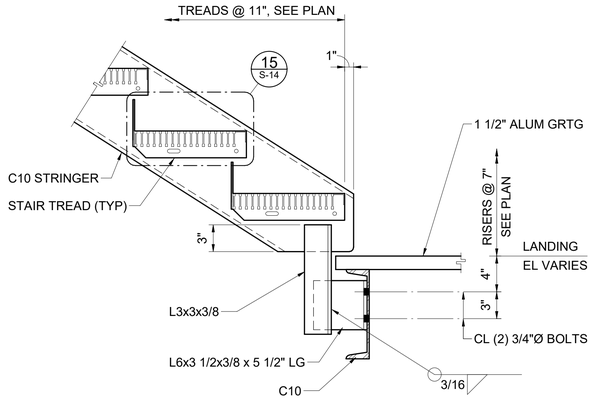
18A S-15 | S-15 SECTION
1 1/2" = 1'-0"



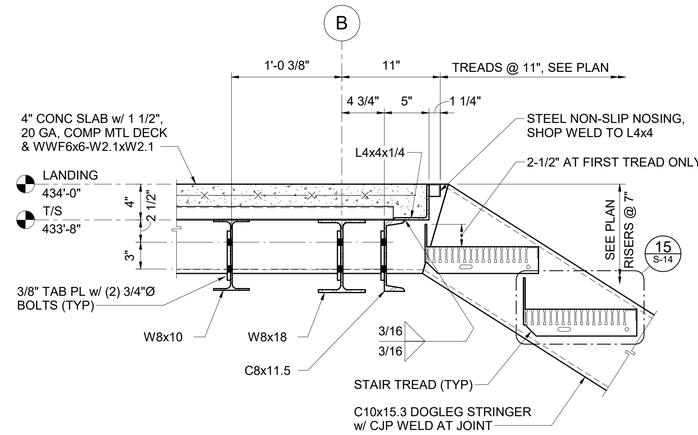
18 S-4 | S-15 SECTION
1 1/2" = 1'-0"



19 S-4 | S-15 SECTION
1 1/2" = 1'-0"



20 S-4 | S-15 SECTION
1 1/2" = 1'-0"



21 S-5 | S-15 SECTION
1 1/2" = 1'-0"

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

GRAPHIC SCALE:
Scale: 1 1/2" = 1' - 0"
1' 9" 6" 3" 0 1'

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276

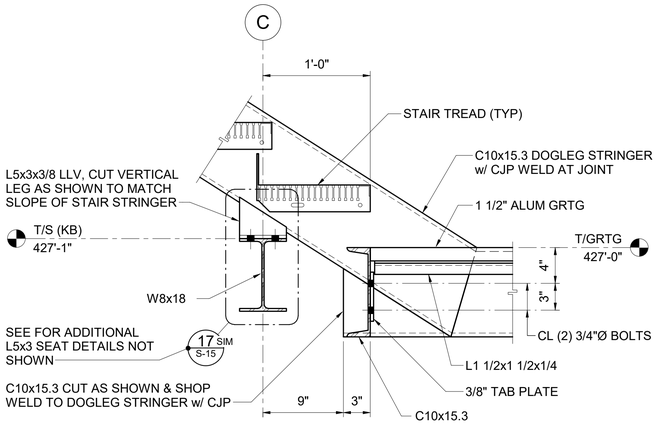
NFA PROJECT No. 21429

NO.	SHEET REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RW	11/11/22

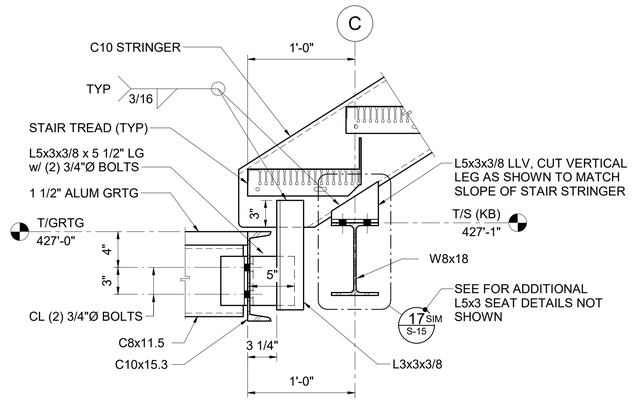
COMMONWEALTH OF VIRGINIA
H. ANTHONY PACE
Lic. No. 040176
5/27/2022
PROFESSIONAL ENGINEER

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6000
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2790
www.wwassociates.net

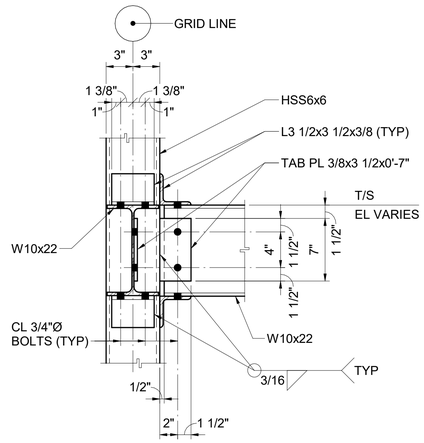
DESIGNED BY: HAP/NFA	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO.: 1
DRAWN BY: RW/NFA	TITLE: SECTIONS AND DETAILS - SHEET 4		DRAWING NUMBER: S-15
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL / SCALE: AS SHOWN	DATE: 5/27/22



22 SECTION
S-5 | S-16 1 1/2" = 1'-0"



23 SECTION
S-5 | S-16 1 1/2" = 1'-0"



SECTION VIEW

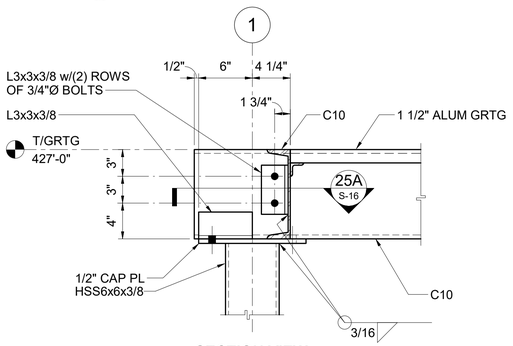
TYPICAL MOMENT CONNECTION

24 DETAIL
S-6 | S-16 1 1/2" = 1'-0"

NOTE:
CONC SLAB & METAL DECK
OMITTED FOR CLARITY

PLAN VIEW

25A DETAIL
S-16 | S-16 1 1/2" = 1'-0"



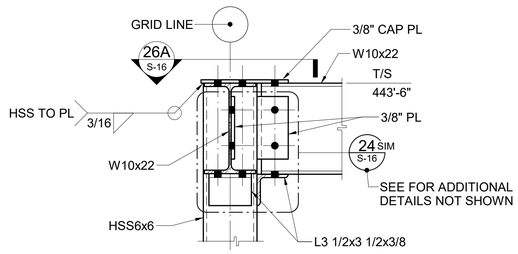
SECTION VIEW

CAP PLATE AT D-1

25 DETAIL
S-5 | S-16 1 1/2" = 1'-0"

PLAN VIEW

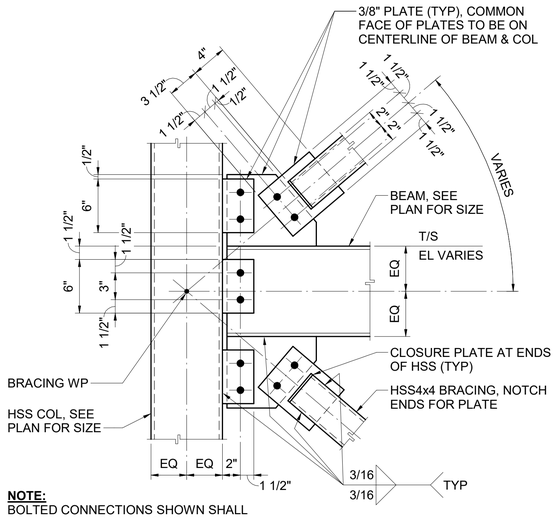
26A DETAIL
S-16 | S-16 1 1/2" = 1'-0"



SECTION VIEW

MOMENT CONNECTION AT EL 447'-9"

26 DETAIL
S-6 | S-16 1 1/2" = 1'-0"



NOTE:
BOLTED CONNECTIONS SHOWN SHALL
BE MADE USING (2) 3/4"Ø BOLTS

ELEVATION VIEW

TYPICAL BRACING CONNECTION

27 DETAIL
S-7 | S-16 1 1/2" = 1'-0"

GRAPHIC SCALE:

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

1' 9" 6" 3" 0 1'

FOR STRUCTURAL
GENERAL NOTES, SEE
DRAWING S-1

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276

NFA PROJECT No. 21429

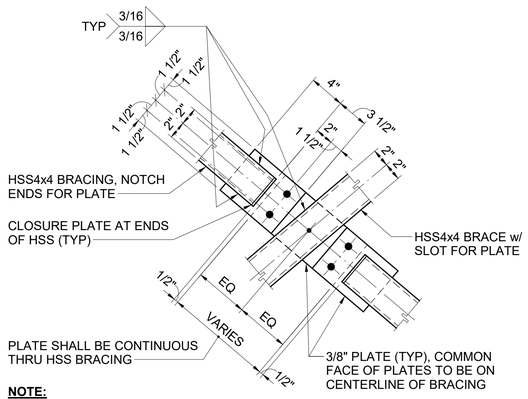
NO.	SHEET REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RW	11/11/22

NO.	SHEET REVISION	BY	DATE

COMMONWEALTH OF VIRGINIA
H. ANTHONY PACE
Lic. No. 040176
5/27/2022
PROFESSIONAL ENGINEER

WWA ASSOCIATES
ENGINEERS
SURVEYORS
PLANNERS
PO Box 4119
Lynchburg, VA 24502
Phone: 434.316.6080
968 Glyngrea Drive, Suite 1
Charlottesville, VA 22911
Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: HAP/NFA	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 1
DRAWN BY: RW/NFA			
DIHR BY: HFW	TITLE: SECTIONS AND DETAILS - SHEET 5		DRAWING NUMBER: S-16
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL / SCALE: AS SHOWN	DATE: 5/27/22

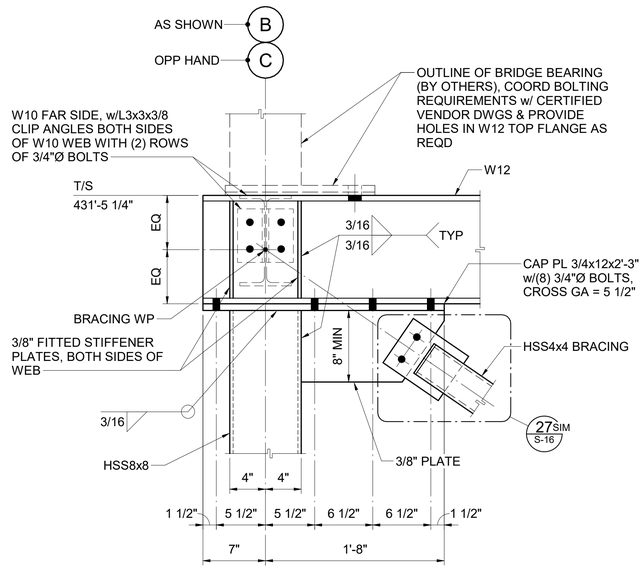


NOTE:
BOLTED CONNECTIONS SHOWN SHALL BE MADE USING (2) 3/4"Ø BOLTS

ELEVATION VIEW

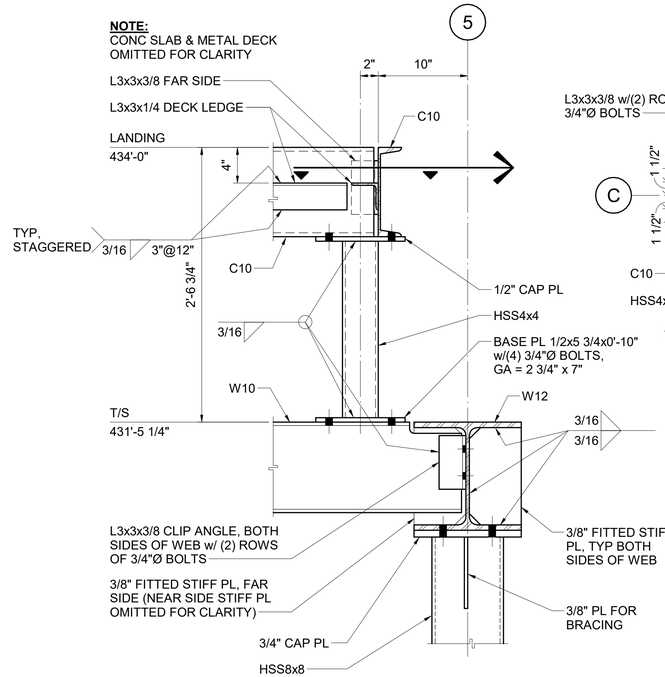
TYPICAL BRACING INTERSECTION

28 DETAIL
S-8 | S-17 1 1/2" = 1'-0"

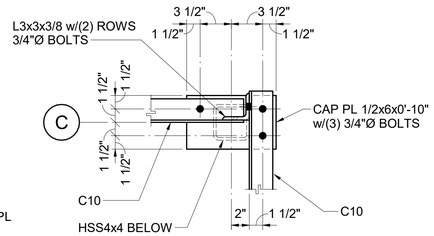


BRIDGE BEARING DETAIL

29 DETAIL
S-6 | S-17 1 1/2" = 1'-0"



SECTION VIEW

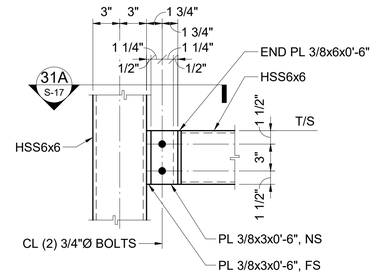


NOTE:
L3x3 DECK LEDGE ANGLES OMITTED FOR CLARITY

PLAN VIEW

HSS4x4 POST DETAIL

30 DETAIL
S-9 | S-17 1 1/2" = 1'-0"

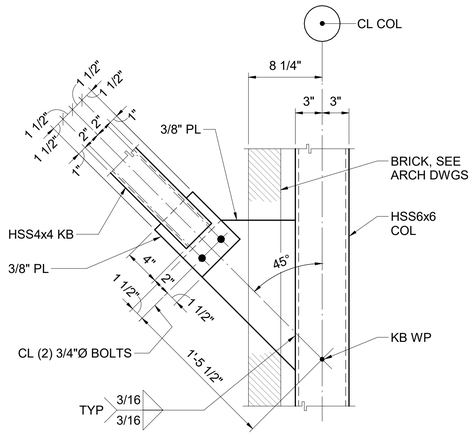


PLAN VIEW

31A DETAIL
S-17 | S-17 1 1/2" = 1'-0"

SECTION VIEW

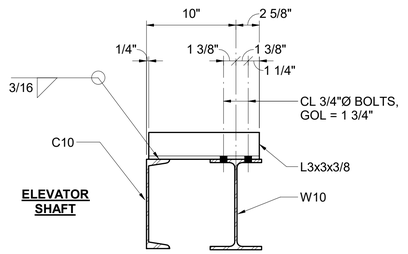
31 DETAIL
S-6 | S-17 1 1/2" = 1'-0"



SECTION VIEW

TYPICAL KNEE BRACE CONNECTION AT BRICK

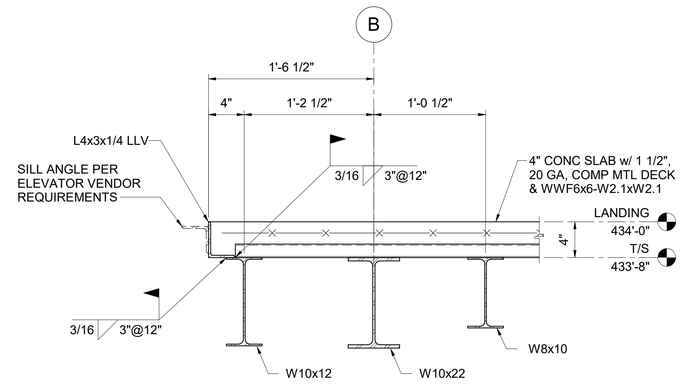
32 DETAIL
S-7 | S-17 1 1/2" = 1'-0"



SECTION VIEW

NOTE:
COORDINATE LOCATION OF L3x3 BRACE SO THAT BRACE IS IN ALIGNMENT WITH ELEVATOR RAIL BRACKETS

33 DETAIL
S-6 | S-17 1 1/2" = 1'-0"



34 SECTION
S-5 | S-17 1 1/2" = 1'-0"

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

GRAPHIC SCALE:
Scale: 1 1/2" = 1' - 0"
1' 9" 6" 3" 0 1'

NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276
NFA PROJECT No. 21429

NO.	SHEET REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RW	11/11/22

COMMONWEALTH OF VIRGINIA
H. ANTHONY PACE
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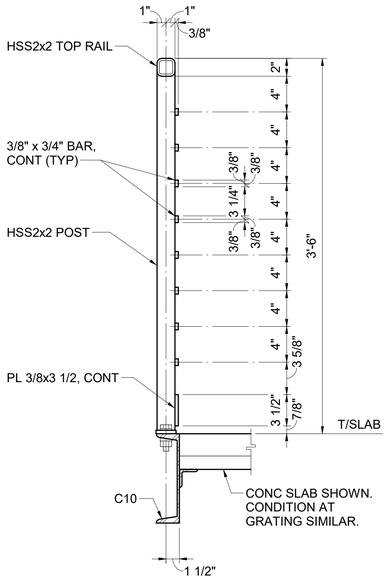
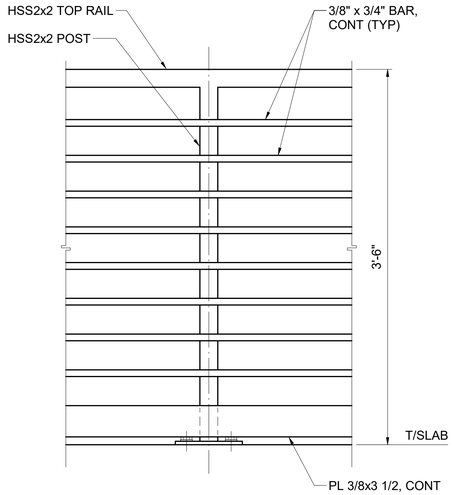
5/27/2022
PROFESSIONAL ENGINEER

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

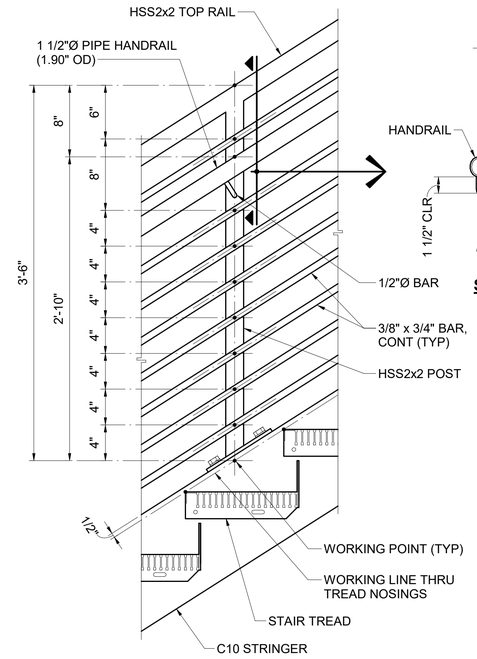
DESIGNED BY: HAP/NFA	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 1
DRAWN BY: RW/NFA	TITLE: SECTIONS AND DETAILS - SHEET 6		DRAWING NUMBER: S-17
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME:	DISCIPLINE: STRUCTURAL / SCALE: AS SHOWN	DATE: 5/27/22



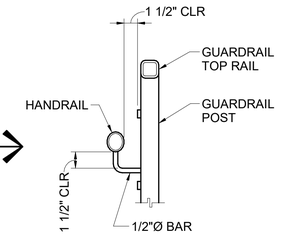
SECTION VIEW



ELEVATION VIEW



ELEVATION VIEW AT STAIR STRINGER



SECTION VIEW

GUARDRAIL NOTES:

1. ALL GUARDRAIL AND HANDRAIL ELEMENTS SHALL BE ALUMINUM.
2. GUARDRAIL IS DELEGATED DESIGN. SEE SPECIFICATION SECTION 057300 DECORATIVE METAL RAILINGS, FOR DELEGATED DESIGN REQUIREMENTS.

TYPICAL GUARDRAIL DETAILS

35 DETAIL
S-4 | S-18 1 1/2" = 1'-0"

FOR STRUCTURAL GENERAL NOTES, SEE DRAWING S-1

GRAPHIC SCALE:

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

1' 9" 6" 3" 0 1'

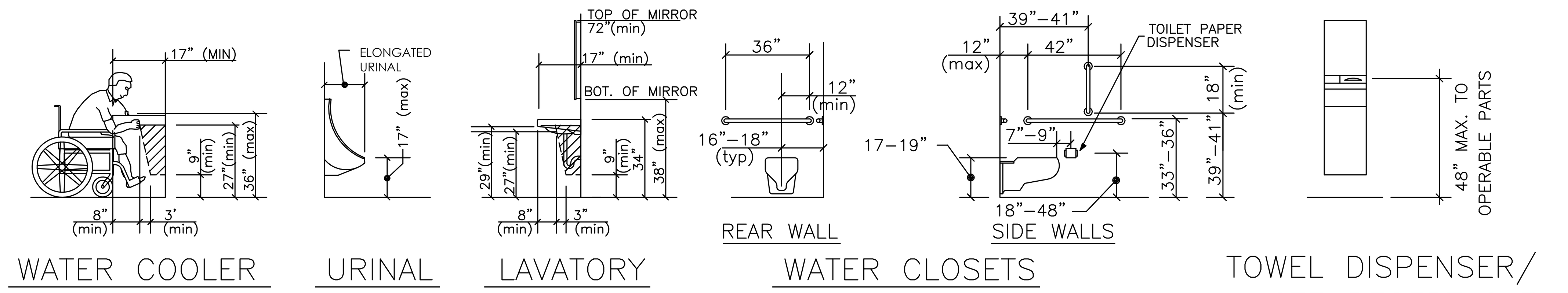
NOLEN FRISA ASSOCIATES
CONSULTING ENGINEERS
103 HOMESTEAD DRIVE FOREST, VIRGINIA 24551
PHONE (434)385-4390 FAX (434)385-4276
NFA PROJECT No. 21429

NO.	SHEET REVISION	BY	DATE
1	ISSUED FOR CONSTRUCTION	RW	11/11/22

COMMONWEALTH OF VIRGINIA
H. ANTHONY PACE
Lic. No. 040176
5/27/2022
PROFESSIONAL ENGINEER

WW ASSOCIATES
ENGINEERS
SURVEYORS
PLANNERS
PO Box 4119 968 Olympia Drive, Suite 1
Lynchburg, VA 24502 Charlottesville, VA 22911
Phone: 434.316.6080 Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY:	HAP/NFA
DRAWN BY:	RW/NFA
DIHR BY:	HFW
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA
TITLE:	SECTIONS AND DETAILS - SHEET 7
FILE NAME:	
DISCIPLINE:	STRUCTURAL
SCALE:	AS SHOWN
SET REV. NO.	1
DRAWING NUMBER:	S-18
DATE:	5/27/22



MOUNTING HEIGHTS

SCALE: NONE

EQUIPMENT PERMITTED IN HATCHED AREAS TO BE CONFIGURED TO PROTECT AGAINST CONTACT.
STANDARDS SHOW TYPICAL ACCESSIBLE MOUNTING HEIGHTS & CLEARANCES.
SPECIFIED PRODUCTS MAY VARY FROM DETAIL IMAGE.
SPECIAL MOUNTING HEIGHTS MAY BE INDICATED ON OTHER SHEETS.
ORDER TOILETS WITH FLUSH VALVES ON THE OPEN SIDE OF THE TOILET.
REACH HEIGHTS SHOWN ARE TO OPERABLE PARTS (TYPICAL)

REACH HEIGHTS SHOWN ARE TYPICAL TO OPERABLE PARTS FOR ALL DEVICES INCLUDING RECEPTCALES / PULL STATIONS

NOTICE TO CONTRACTOR & ALL TRADES

ALL TRADES SHALL BE RESPONSIBLE FOR THE CONTENTS CONTAINED HEREIN, AND FOR THE INFORMATION REPRESENTED ON ALL SHEETS. THESE CONSTRUCTION DOCUMENTS HAVE BEEN PRODUCED WITH THE INTENTION OF BEING USED AS A SINGULAR TOOL FOR THE CONSTRUCTION OF THIS PROJECT. NO SINGLE DRAWING WILL STAND ALONE, AND AT NO TIME WILL THE ARCHITECT OR OWNER BE RESPONSIBLE FOR ACTIONS TAKEN BY A CONTRACTOR OR SUBCONTRACTOR WHO HAS NOT REVIEWED, AND IS NOT IN POSSESSION OF A FULL WORKING SET OF DOCUMENTS. BE ADVISED, THERE MAY BE NOTES ON A DRAWING FOR ONE SPECIFIC TRADE THAT WILL PERTAIN TO THE WORK OF OTHER TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE CLEAR COMMUNICATION BETWEEN ALL TRADES, AND THAT ALL WORKERS HAVE ADEQUATELY REVIEWED ALL DRAWINGS AND LOCATED ALL WORK THAT WOULD FALL UNDER THEIR RESPONSIBILITY.

GENERAL NOTES

BUILDING PERMIT BY GENERAL CONTRACTOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING, BRACING & WEATHER PROTECTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROTECTION AND BARRICADING OF PUBLIC AREAS AND NEIGHBORING PROPERTIES

CONTRACTOR SHALL COMPLY WITH ALL PERTINENT RULES, REGULATIONS, ORDINANCES, AND LAWS MANDATED BY LOCAL, STATE, AND FEDERAL AGENCIES.

PRIOR TO CONSTRUCTION, EXAMINE ALL PROJECT SPECIFICATIONS, DRAWINGS, AND VISIT THE SITE TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM ALL WORK REQUIRED FOR A COMPLETE INSTALLATION. UPON REVIEW OF THESE DOCUMENTS, ADVISE THE ARCHITECT IN A TIMELY MANNER OF ANY DISCREPANCIES WHICH WILL EFFECT THE WORK REQUIRED SO THAT THE ARCHITECT MAY PROVIDE DIRECTION PRIOR TO BEGINNING AFFECTED WORK.

CODE INFORMATION - (2018 VCC)

PROJECT DESCRIPTION

SCOPE OF PROJECT INCLUDES A NEW (1) STORY, 317 SF PUBLIC TOILET BUILDING

BASIC BUILDING PLANNING
CHAPTER 3
USE GROUPS: U TOILET STRUCTURE

CHAPTER 4

CHAPTER 5
BUILDING LIMITATIONS (TABLES 504.3, 504.4 & 506.2):
U USE: 40 FT, 1 STORY, 5,500 SF

PROJECT ACTUAL HEIGHT & AREA:
13'-0" HEIGHT, (1) STORY, 317 SF

506.3 FRONTAGE INCREASE: NOT TAKEN

508.3.3 NON-SEPARATED SINGLE OCCUPANCY

CHAPTER 6
602 CONSTRUCTION TYPE : 5B [NS]
T601 - FIRE RATING FOR BUILDING ELEMENTS: 0
T602 - EXTERIOR WALLS (0) HR. >10' SEPARATION

CHAPTER 7 FIRE BARRIERS, FIRE PARTITIONS & HORIZONTAL ASSEMBLIES SHALL COMPLY WITH VCC CHAPTER 7.

NO RATED ASSEMBLIES

CHAPTER 8 INTERIOR FINISHES: INTERIOR WALLS, CEILINGS, & FLOORS SHALL COMPLY WITH VCC CHAPTER 8.

CHAPTER 9 FIRE PROTECTION SYSTEMS

903 SPRINKLER SYSTEM [NR]
907 FIRE ALARM REQUIRED [NR]

CHAPTER 10 MEANS OF EGRESS
1004 OCCUPANCY LOADS: SEE FLOOR PLAN - BUILDING TOTAL = **8**

CHAPTER 11
1104.2 ACCESSIBLE ROUTE PROVIDED TO ALL ACCESSIBLE SPACES.

CODE INFORMATION (CONTINUED)

ASSUMED MINIMUM SOIL BEARING CAPACITY FOR DESIGN = 2,000 PSF

REFERENCE UNDERHILL ENGINEERING GEOTECHNICAL ENGINEERING REPORT DATED SEPTEMBER 27, 2021

VECC 2018: NON-CONDITIONED BUILDING

CHAPTER 16 STRUCTURAL DESIGN

DESIGN LOADS
BUILDING RISK CATEGORY - II (TABLE 1604.5)

LIVE LOADS
FLOOR = 150 PSF
ROOF = 20 PSF
ROOF SNOW = 30 PSF

DEAD LOAD
TRUSS TOP & BOT. CHORD = 15 PSF

REFER TO DRAWINGS FOR SPECIAL LOADS.

DESIGN FOR THE FOLLOWING DEFLECTION LIMITS:
L/480 LIVE LOAD
L/360 LIVE LOAD + DEAD LOAD

PROVIDE NUMBER OF PLIES OF TRUSSES REQUIRED TO KEEP BEARING STRESS ON WOOD TOP PLATE BELOW THE FOLLOWING LIMITS:

425 PSI - NO 1/ OR NO. 2 SPRUCE PINE FIR PLATES

SNOW LOADS
Pg = 30 PSF GROUND SNOW
Ce = 1.0 SNOW EXPOSURE FACTOR
Ct = 1.0 THERMAL FACTOR
Is = 1.0 IMPORTANCE FACTOR
Pf = 21.0 PSF
Pm = 20.0 PSF (USE 25 PSF FOR SLOPED ROOFS)

WIND LOADS
Vult= 115 MPH
Vasd = 89 MPH
EXPOSURE B
Kd = 0.85 (WIND DIRECTIONALITY FACTOR)
Kzt = 1.0 (TOPOGRAPHIC FACTOR)
GCPI = 0.18± (ENCLOSED BLDG.)
ASCE 7-10

CODE INFORMATION (CONTINUED)

SEISMIC LOADS
Ie = 1.0
SEISMIC SITE CLASS = D (ASSUMED)
SEISMIC DESIGN CATEGORY = B
BASIC STRUCTURAL SYSTEM = BEARING SHEAR WALLS
Ss = 21.6%G SMS = 54.1%G
S1 = 6.9%G SM1 = 24.1%G
Fa = 1.60 Sds = 36.1% G
FV = 2.40 Sd1 = 16.0%G

CHAPTER 17 SPECIAL INSPECTIONS (SEE STRUCTURAL)

SITE IS NOT LOCATED IN A FLOOD HAZARD AREA

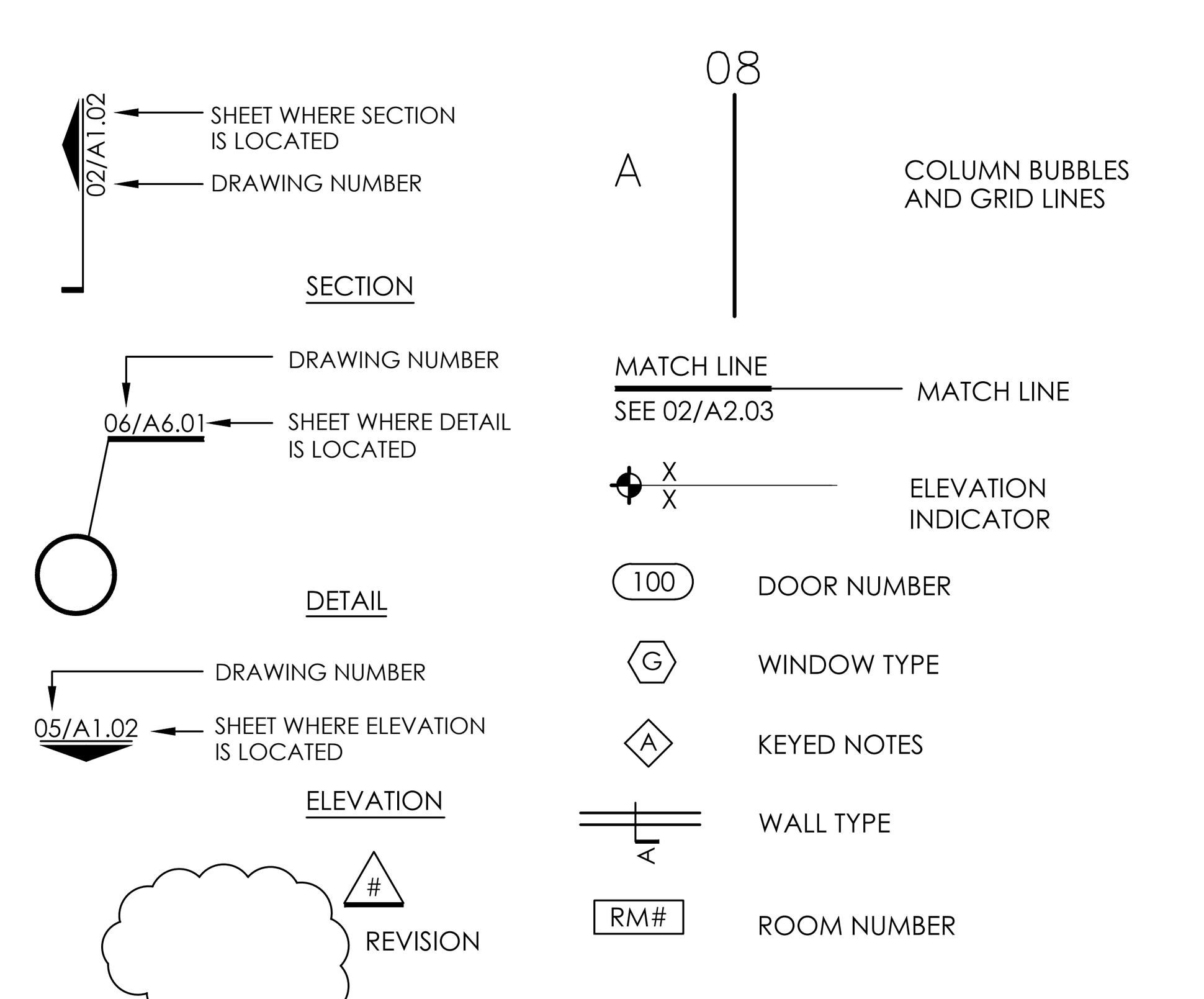
SEE DRAWINGS FOR BUILDING ENVELOPE & STRUCTURAL SYSTEMS & MATERIALS

CHAPTER 29 MINIMUM PLUMBING FIXTURES
PUBLIC TOILET PROVIDED FOR CONVENIENCE NOT BASED ON OCCUPANCY

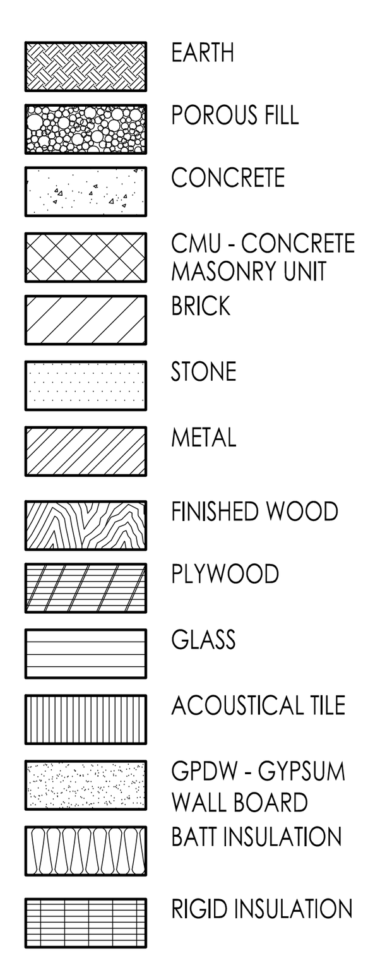
MEP COORDINATION NOTE

PLUMBING, ELECTRICAL, & HVAC SYSTEMS ARE TO BE CONSTRUCTED AS COMPLETE, COORDINATED SYSTEMS. AS A MINIMUM THEY SHALL MEET APPLICABLE BUILDING AND LIFE SAFETY CODES UNDER VA USBC 2018 & ANSI A117.1. EACH SYSTEM DESIGNER/INSTALLER MUST COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER PROJECT SUB-CONTRACTORS.

GENERAL SYMBOLS



MATERIAL SYMBOLS



ABBREVIATIONS

@	AT	F.F.	FINISHED FLOOR	P.C.	PLUMBING CONTRACTOR
ABV.	ABOVE	BRD.	FINISH	PSF	PER SQUARE FOOT
A.C.T.	ACOUSTICAL CEILING TILE	FLR.	FLOOR	PSI	PER SQUARE INCH
A.F.F.	ABOVE FINISHED FLOOR	FND.	FOUNDATION	P.T.	PRESSURE TREATED
ADJ.	ADJUSTABLE	FRMG.	FRAMING	PERIM.	PERIMETER
ALT.	ALTERNATE	FT.	FOOT/FEET	PLUMB.	PLUMBING
ALUM.	ALUMINUM	FTG.	FOOTING	R.O.	ROUGH OPENING
ARCH.	ARCHITECTURAL	G.C.	GENERAL CONTRACTOR	RWC	RAIN WATER CONDUCTOR
B.F.F.	BELOW FINISHED FLOOR	GPDW	GYPSUM WALLBOARD	REINF.	REINFORCED
BSMT	BASEMENT	GA.	GAUGE	REQ.	REQUIRED
BLK'G	BLOCKING	GALV.	GALVANIZED	RESP.	RESPONSIBLE
B.O.	BOTTOM OF	HVAC	HEATING, VENTILATION & AIR CONDITIONING	RET.	RETURN
BOT.	BOTTOM			RM	ROOM
BD	BOARD	HW	HARDWARE	S.F.	SQUARE FEET
BLDG.	BUILDING	HDR.	HEADER	S.S.R	STANDING SEAM ROOF
C.T.	CERAMIC TILE	HGT.	HEIGHT	SCHED.	SCHEDULE
CLG.	CEILING	HORIZ.	HORIZANTAL	STD.	STANDARD
CLO.	CLOSET	INSUL.	INSULATION	STL.	STEEL
CMU	CONCRETE MASONRY UNIT	INT.	INTERIOR	STOR.	STORAGE
CONC.	CONCRETE	JAN.	JANITOR	T&G	TONGUE & GROOVE
CONST	CONSTRUCTION	JT.	JOINT	TEMP.	TEMPORARY
DBL	DOUBLE	L.F.	LINEAR FOOT	T.O.	TOP OF
DWG	DRAWING	M.C.	MECHANICAL CONTRACTOR	TYP.	TYPICAL
DTL.	DETAIL	MR	MOISTURE RESISTANT BOARD	U.G.	UNDERGROUND
EX.	EXISTING	MANUF.	MANUFACTURED	U.N.O.	UNLESS NOTED OTHERWISE
E.C.	ELECTRICAL CONTRACTOR	MAX.	MAXIMUN	VWC	VINYL WALLCOVERING
ELEC.	ELECTRICAL	MECH.	MECHANICAL	VERT.	VERTICAL
ELEV.	ELEVATION	MIN.	MINIMUM	V.C.T.	VINYL COMPOSITE TILE
EQ.	EQUIVALENT	MTL.	METAL	W/	WITH
EXP.	EXPANSION	O.C.	ON CENTER	W/O	WITHOUT
EXT.	EXTERIOR	PTD	PAINTED	W.W.F.	WELDED WIRE FABRIC
F.G.	FIBERGLASS	PL	PLATE	WD.	WOOD

PUBLIC TOILET BUILDING

COMMONWEALTH OF VIRGINIA — DEX A. SANDERS Lic. No. 8814 — 05-27-22 — ARCHITECT

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22				
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22				
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

SANDERS ARCHITECTURE PC
16125 RACCOON FORD RD
CULPEPER, VIRGINIA 22701
(v)540-829-2590

WW ASSOCIATES — ENGINEERS SURVEYORS PLANNERS
PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080 — 968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY:
DRAWN BY:
DIHR BY: HFW
WWA NUMBER: 220047.01

PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PROJECT TOWN OF CULPEPER, VIRGINIA

TITLE: ARCHITECTURAL NOTES & DETAILS

FILE NAME: P2114A–CD.dwg

DISCIPLINE:

SCALE: H: V: NOTED

SET REV. NO. 3

DRAWING NUMBER: A0.1

DATE: 05/27/22

PROJECT NOTES & SPECIFICATIONS - REFER TO PROJECT MANUAL FOR ADDITIONAL SPECIFICATIONS

GENERAL NOTES:
1. ALL ITEMS & SYSTEMS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND IN CONFORMANCE WITH APPLICABLE BUILDING CODES, LAWS AND REGULATIONS.

2. UNLESS "NO SUBSTITUTIONS" IS SPECIFICALLY INDICATED, IT IS NOT THE INTENT OF THESE DOCUMENTS TO EXCLUDE MANUFACTURERS THAT PRODUCE EQUAL PRODUCTS OR SYSTEMS. CONTRACTOR IS ENCOURAGED TO SUBMIT ALTERNATE PRODUCT OR SYSTEM MANUFACTURERS FOR CONSIDERATION BY ARCHITECT PRIOR TO BID / ORDER.

3. CONTRACTOR SHALL DAILY REMOVE ALL DEBRIS FROM SITE AND KEEP WORK AREA CLEAN. REMOVE EXCESS MATERIALS FROM SITE.

4. SEE THE PROJECT MANUAL FOR ADDITIONAL SPECIFICATIONS AND INFORMATION.

5. FOLLOWING CONTRACT AWARD, SUBMIT PROPOSED COLOR CHARTS & MATERIAL SAMPLES FOR ALL REQUIRED COLOR SELECTIONS TO OWNER / ARCHITECT FOR SELECTION. MANUFACTURER'S PRINTED COLOR CHARTS FOR PAINTED ITEMS OR PHYSICAL SAMPLES ARE REQUIRED. ***PAGES PRINTED FROM WEBSITES, PDF DOCUMENTS OR LINKS TO WEBSITES ARE NOT ACCEPTABLE FOR COLOR SELECTION.***

6. SUBMITTAL INFORMATION REQUIRED FOR ALL SECTIONS NOTED THUS **. EXCEPT FOR SAMPLES, FURNISH SUBMITTALS IN PDF FORMAT.

7. CONTRACTOR SHALL MAKE APPLICATION AND OBTAIN ALL PERMITS REQUIRED FOR THE EXECUTION OF THIS WORK. U.N.O. ALL PERMIT FEES WILL BE PAID BY THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH SERVICES PROVIDED BY OTHERS.

02000 - SITE WORK (SEE SITE PLAN SHEETS)

1. *SEE THE ATTACHED SOILS REPORT INCLUDED IN THE PROJECT MANUAL AND FOLLOW ALL RECOMMENDATIONS OF THE REPORT*.
2. CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY, BENCHMARKS AND STAKEOUT REQUIRED FOR THIS PROJECT.

02500 - BUILDLING UTILITIES (SEE SITE PLAN)
1. CONTRACTOR SHALL EXTEND AND COMPLETE BUILDING UTITLITY SERVICES IN COORDINATION WITH WORK PERFORMED BY OTHERS.
2. PROTECT ALL EXIST. SERVICES IN PLACE.
3. CONTRACTOR SHALL CAREFULY EXAMINE THE SITE TO DETERMINE EXISTING CONDITIONS AND FULL EXTENT OF WORK REQUIRED TO EXTEND ALL UTILITIES TO BUILDING. UTILITY COSTS & PERMIT FEES NOT SPECIFICALLY EXCLUDED ARE A PART OF THIS WORK.
4. AT PRE-CONSTRUCTION MEETING, CONTRACTOR SHALL PRESENT THE OWNER WITH A SCHEDULE FOR HAVING THE OWNER PROVIDED UTILITIES COMPLETE.
5. CONTRACTOR SHALL PROVIDE AND PAY FOR ANY TEMPORARY UTILITY SERVICES REQUIRED FOR CONSTRUCTION PRIOR TO FINAL UTILITY INSTALLATION (I.E. TEMP. H20 & ELEC.).

02361 - TERMITE CONTROL (NOT USED)

02800 - LANDSCAPING (SEE SITE PLAN)

03300 CAST-IN-PLACE CONCRETE **

SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION. FOLLOW STRUCTURAL SHEET SPECIFICATIONS WHERE STRUCTURAL SHEET REQUIREMENTS ARE MORE STRINGENT.

1. FLOOR SLABS & FOOTINGS - 3,500 PSI WITH FIBER MESH FOR FINISHED INTERIOR SLABS. ALL CONCRETE EXPOSED TO EXTERIOR TO BE AIR ENTRAINED 6% AT ± 1.5% AT POINT OF PLACEMENT.
2. CONCRETE WORK SHALL CONFORM TO THE CURRENT VERSION OF:
   ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   ACI 301-10 - SPECIFICATIONS FOR STRUCTURAL CONCRETE

3. PROVIDE STANDARD BAR CHAIRS & AND SPACERS AS REQUIRED FOR 3" COVER AT FOUNDATIONS AND 2" COVER AT FORMED WALLS AND ELEVATED SLABS. SUPPORT WIRE MESH W/ CONT. SLAB BOLSTERS @ 4'-0" OC MAX.
4. CONTRACTOR SHALL CAREFULLY MONITOR CONCRETE PLACEMENT ACTIVITIES TO MINIMIZE SPILLAGE & CLEAN BOTH INTERIOR AND EXTERIOR AREAS WHERE CONCRETE SPLATTERS OR DRIPS .
5. NO DUMPING OF EXCESS CONCRETE OR TRUCK CLEAN UP TO OCCUR ON SITE UNLESS APPROVED IN ADVANCE BY OWNER.
6. REINFORCING BARS: ASTM A615, GRADE 60. FLAT SHEET WELDED WIRE FABRIC: ASTM A1064. MINIMUM LAP SLICE TO BE 48 BAR DIAMETERS.
7. WATERSTOPS: RUBBER OR PVC
8. VAPOR BARRIER: 10 MIL MINIMUM POLYETHYLENE SHEETS - SEAL ALL EDGES & TURN UP WALL AT SLAB AROUND PERIMETER. PROVIDE UNDER ALL INTERIOR SLABS
9. JOINT FILLER STRIPS: ASPHALT-SATURATED CELLULOSIC FIBER.

SPECIFICATIONS (CONT.)

04200 UNIT MASONRY **
1. CONFORM TO THE REQUIREMENTS OF THE LASTEST EDITION OF ACI-530-13 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1-13 " SPECIFICATION FOR MASONRY STRUCTURES".
2. PROVIDE UNITS IN SIZES INDICATED AND SPECIAL SHAPES WHERE REQUIRED. MINIMUM COMPRESSIVE STRENGTH MASONRY UNITS TO BE 1,900 PSI, ASTM C90, GRADE N. SEE COLOR SCHEDULE FOR COLORS. CONSTRUCT IN RUNNING BOND PATTERN EXCEPT WHERE INDICATED OTHERWISE.
3. GROUT: ASTM C476, 2,000 PSI MIN. COMPRESSIVE STRENGTH F'm = 1,900 PSI.
4. MORTAR: ASTM C270 CEMENT LIME, TYPE S (CMU), LATICRETE POLYMER MORTAR HIGH BOND (THIN BRICK)
5. REINFORCING: ASTM A615, GRADE 60
6. PROVIDE HORIZONTAL DUROWALL WIRE REINFORCING AT 16" OC VERT. (TYP) AT ALL MASONRY BEARING WALLS.
7. PROVIDE GALVANIZED STEEL SLEEVES AT EXTERIOR WALL PIPE PENETRATIONS.
8. GROUT ALL MASONRY SOLID BELOW GRADE. GROUT 24 INCHES SOLID BELOW BEARING PLATES, BEAMS, HEADERS OR LINTELS.
9. PROTECT MASONRY CONSTRUCTION DURING COLD, HOT AND WET WEATHER.
10. MASONRY TIES TO BE GALVANIZED CARBON STEEL - ADJUSTABLE FOR VERTICAL OR HORIZONTAL DIRECTION. PROVIDE TIES AT 16" OC VERTICALLY AND 24" OC HORIZONTALLY MAX. FOR VENEERS. INSTALL ADDITIONAL ANCHORS AROUND OPENINGS, TOP OF WALL AND PILASTERS.
11. EXPOSED EMBEDDED FLASHINGS TO BE .0156 STAINLESS STEEL. CONCEALED FLASHING TO BE .040 THICKNESS EPDM OR RUBBERIZED-ASPHALT.
12. CLEAN MASONRY OF ALL MORTAR DRIPS, STAINS AND EFFLORESCENCE USING EITHER A JOB MIX DETERGENT SOLUTION OR PROPRIETARY ACIDIC CLEANER TESTED TO INSURE THAT SURROUNDING CONSTRUCTION AND MASONRY FINISH IS NOT DAMAGED. PROTECT MASONRY FROM SOIL / CONCRETE STAINING DURING AND IMMEDIATELY AFTER INSTALLATION.
13. MASONRY SHALL BE INSTALLED PLUMB AND LEVEL. CUT MASONRY WITH A SAW ONLY. COORDINATE CLOSELY FOR BUILT-IN WORK AND COORDINATE ALL MASONRY OPENINGS WITH FRAMING AND MEP SYSTEMS.
14. CONSTRUCT A 4'-0" X 3'-0" HIGH MINIMUM SIZE SAMPLE PANEL SHOWING ALL COLORS / PATTERNS FOR OWNER APPROVAL TO REMAIN UNTIL BUILDING MASONRY IS COMPLETE.

05000 METALS (SEE PROJECT MANUAL)

06000 WOOD AND PLASTIC **
1. MINIMUM WOOD BLOCKING OR NAILERS SHALL BE SYP #2, GROUND CONTACT PRESERVATIVE TREATED WHERE INDICATED AND REQUIRED BY CODE. ALL WOOD IN CONTACT WITH SLABS ON GRADE OR EXTERIOR WALLS INCLUDING CONC. / MASONRY WALLS TO BE PRESERVATIVE TREATED. ALL FASTENERS IN CONTACT WITH PRESERVATIVE TREATED WOOD TO BE STAINLESS STEEL OR HOT DIPPED GALVANIZED ONLY.
2. CONTRACTOR TO PROVIDE ALL NECESSARY BLOCKING, FASTENERS AND CONNECTORS. PROVIDE ALL TEMPORARY AND PERMANENT BRACING TO STABILIZE STRUCTURE AT ALL TIMES.

07100 FOUNDATION WATERPROOFING (NOT USED)

07210 BUILDING INSULATION REFER TO PROJECT MANUAL
1. BATTS INSULATION TO BE UN-FACED FIBERGLASS BATT INSULATION BY OWNENS CORNING IN THICKNESS INDICATED.
2. PERIMETER FOUNDATION INSULATION TO BE DOW EXTRUDED POLYSTYRENE INSULATION. PERIMETER INSULATION SHALL EXTEND AROUND ENTIRE PERIMETER.
3. INSULATION SCHEDULE:

ATTIC INSULATION = R-38 MIN (2 LAYERS - (1) PARALLEL & TOP PERPENDICULAR TO TRUSSES)
PERIMETER FOUNDATION INSULATED = R=10 VERTICAL
8" CMU WALL INSULATION = CORE-FILL 500 R=9.1 MIN.
8" CFS CAVITY INSULATION = R-21 MIN.
3-5/8" CFS CAVITY INSULATION = R-15 MIN.

07400 SIDING PANELS **
1. VENTED SOFFIT PANELS TO BE HARDIE PLANK FIBER-CEMENT VENTED PLUS SMOOTH 24" WIDE FACTORY FINISHED WHITE WHERE INDICATED.
2. EXTERIOR TRIM AT SIDING / SOFFIT TO BE JAMES HARDIE FIBER-CEMENT 2-1/2" SMOOTH BATTENS & TRIM BOARD PRIMED - SIZE AS INDICATED.
3. SIDING / CEILING PANELS TO BE EQ. TO JAMES HARDIE 48" WIDE x 10'-0" LONG SMOOTH FIBER-CEMENT PANELS FACTORY FINISHED WHITE. PROVIDE CONTINUOUS BLOCKING BEHIND ALL PANEL SEAMS. ALL FASTENERS TO BE STAINLESS STEEL ONLY.
4. ALUMINUM SOFFIT PANLES TO BE EQ. TO PAC-CLAD PAC-750 SOLID OR FULL VENT AS INDICATED WITH MATCHING J-CHANNEL TRIM.

07500 MEMBRANE ROOFING **
1. PROVIDE CARLISLE STANDARD 20 YEAR WARRANTY SURE-SEAL .060 INCH THICKNESS FULLY ADHERED EPDM ROOFING MEMBRANE OVER FULLY MECHANICALLY FASTENED (OR ADHESIVE ADHERED IF APPROVED BY THE SYSTEM MANUFACTURER) POLYISOCYANURATE INSUL. (THICKNESS INDICATED) USE FASTENERS AS RECOMMENDED BY THE MFG.
2. CONFIRMATION FROM MFG. THAT SUBSTRATE IS ACCEPTABLE FOR WARRANTY.
3. COMPLY WITH ROOFING MANUFACTURER'S CURRENT APPLICATION RECOMMENDATIONS, SPECIFICATIONS AND DETAILS. USE ADHESIVES, CLEANERS, SEALANTS AND FASTENERS AS RECOMMENDED BY THE SYSTEM MFG TO OBTAIN A WRITTEN 20 YEAR LABOR & MATERIAL WARRANTY.
4. ROOFING SYSTEM INSTALLER MUST BE ABLE TO DEMONSTRATE AT LEAST (5) YEARS SUCCESSFUL EXPERIENCE INSTALLING TPO SYSTEMS.
5. ALL METAL FLASHING, DRIP EDGES & BARS TO BE MIN. 0.050" THICKNESS ALUM. WITH FACTORY KYNAR 500 DARK BRONZE COATING. SUBMIT COLOR SAMPLE TO CONFIRM BEFORE ORDER. UNLESS OTHERWISE RECOMMENDED BY THE SYSTEM MFG., ALL FASTENERS TO BE STAINLESS STEEL.
6. NEW METAL DRIP EDGE FACIA TO BE CARLISLE SECUREDGE 300, 4" ALUMINUM, 0.063 THICKNESS COATED FINISH ALUMINUM. PROVIDE CONCEALED 4" WIDE SPLICE PLATES AT EACH JOINT, CONT. 20 GA. HOLD DOWN CLEAT & PRE-FORMED OUTSIDE CORNERS. CONTRACTORS MAY SHOP FABRICATE METAL COPING & FLASHING COMPONENTS AS LONG AS THE CARLISLE & PROJECT WARRANTY IS MAINTAINED.
7. SUPPLY ALL FLASHING, COUNTER-FLASHINGS AND ROOF PENETRATION SEALS AS REQUIRED FOR A COMPLETE INSTALLATION. FABRICATE ANY OTHER METAL IN CONTACT WITH EPDM FROM MIN. 24 GA. COATED METAL.
8. ROOFING CONTRACTOR TO PROVIDE A 20 YEAR FULL ZERO COST TO OWNER LABOR & MATERIAL WARRANTY COVERING MATERIAL AND LABOR DEFECTS FOR ALL AREAS RECEIVING NEW ROOFING FOR A PERIOD OF 20 YEARS FROM OWNER ACCEPTANCE. PEAK WIND SPEED OF 115 MPH.
9. PROVIDE ROOF CURBS TO SUPPORT SPECIFIED ROOF TOP EQUIPMENT. & MISC. PENETRATION FLASHINGS AS REQUIRED FOR A COMPLETE INSTALLATION.

07610 - METAL ROOFING (SEE PROJECT MANUAL)

07900 CAULKING & SEALANTS
1. TYPICAL PRODUCTS SHALL BE DOW CORNING - 790 OR GE SILICONE SILPRUF 2000 WEATHERING SEALANT.
2. EXTERIOR BUILDING MASONRY CAULKING AT DOOR FRAMES TO BE PECORA 890 NST TO MATCH DOOR FRAME COLOR. SUBMIT COLOR SAMPLE FROM MANUFACTURER FOR SELECTION. PREPARE ALL JOINTS AS RECOMMENDED BY THE MANUFACTURER AND PERFORM A FIELD ADHESION TEST PRIOR TO FINAL APPLICATION. APPLY AND TOOL SEALANT TO DEPTH RECOMMENDED BY PECORA.
3. SEAL ALL LOCATIONS BETWEEN BUILDING MASONRY AND WALKS WITH PECORA SILICONE TRAFFIC SEALANT - TRAFFIC 301NS IN COLOR TO MATCH WALK. CUT OFF REMAINING EXPANSION JOINT FILLER (EPS) BACK TO RECOMMENDED DEPTH BEFORE APPLYING SEALANT.

08110 STEEL DOOR & FRAMES *(SEE PROJECT MANUAL)***

87100 - DOOR HARDWARE (SEE PROJECT MANUAL)

SPECIFICATIONS (CONT.)

09300 PORCELAIN CERAMIC TILE *(SUBMIT SAMPLES)*
1. ALL FLOOR TILE TO HAVE STATIC OF COEFFICIENT OF FRICTION OF MIN. 0.6.
2. DALTILE PORTFOLIO IRON GRAY, 12"x24" SIZE LAID IN 1/3 STAGGERED RUNNING BOND. PROVIDE METAL SCHLUTER EDGE WHERE REQUIRED FOR SMOOTH TRANSITION AT THRESHOLD & EDGES. VERIFY TILE AND GROUT COLOR WITH OWNER BEFORE ORDER.
3. ALL TILE TO BE THIN SET. MORTAR: LATICRETE #4237; GROUT: LATAPOXY 210 GROUT IN COLOR AS SELECTED BY OWNER; SEALANT: PECORA BC-158 BUTYL RUBBER.
4. INSTALL TILE SMOOTH & FLUSH WITH EVEN 1/8" JOINTS AND MISC. EDGE STRIPS AND TRIMS. LAYOUT TILE TO MINIMIZE THIN CUT TILES. LEAVE TILE CLEAN, WITH ALL GROUT REMOVED FROM TILE SURFACE.

TILE INSTALLER TO PROVIDE LEVELER COMPATIBLE WITH SUBSTRATE AND TILE.

09900 PAINTING
1. PREPARE ALL SURFACES FOR COATINGS & APPLY COATINGS AS RECOMMENDED BY THE MFG. SPECIFICATIONS BELOW BASED ON SHERWIN-WILLIAMS. NOTE THAT EXPOSED ALUM., BRASS, CHROME, STAINLESS STEEL, ETC. TO BE LEFT UNFINSHED. DO NOT PAINT OVER TAGS & LABELS.
2. NO SPRAY APPLICATION OF PAINT WITHOUT PRIOR APPROVAL FROM OWNER. IF SPRAY APPLICATION IS USED, TURN OFF HVAC SYSTEM & PROTECT EQUIPMENT & ADJACENT SURFACES FROM OVERSPRAY.
3. EXTENT OF COATING IN CONTRACT INCLUDES: EXTERIOR SURFACES THAT ARE NOT PRE-FINISHED. PAINT INTERIOR FERROUS METALS - METAL DOORS & FRAMES. ALL EXPOSED NON-FACTORY FINISHED CEILING & TRIM SURFACES, AS WELL AS EXPOSED DUCTWORK, PIPING & CONDUIT.
4. PRIOR TO APPLICATION OF ANY COATING, PAINTING CONTRACTOR WILL EXAMINE THE SUBSTRATE TO BE COATED. APPLICATION OF PAINT DEMONSTRATES PAINTING CONTRACTOR'S ACCEPTANCE OF SUBSTRATE.
5. APPLY COATING TO FINISH THICKNESS RECOMMENDED BY COATING MFG. OWNER SHALL DOCUMENT PRIME COAT APPLICATION. NO FINISH COAT APPLICATION SHALL START UNTIL PRIME COAT IS DOCUMENTED.

PAINTING SCHEDULE:

EXTERIOR FERROUS METAL:
The dry film thickness of the paint at any point shall not be less than the following: for the primer 1.5 mils; for the three coat paint system 3.5 mils. In the event the required paint film thickness is not achieved as specified, additional coats shall be applied until the required thickness is obtained.

EXTERIOR & INTERIOR STEEL GALVANIZED & NON-GALVANIZED (All exterior galvanized metal to be painted unless directed othwerwise by Owner).
Prepare per workmanship above.

1st Coat: SW Pro-Cryl Universal Acrylic Primer B66-1310 Series
2nd Coat: SW Pro Industrial Acrylic Coating, Semi-gloss B66-650 or 600 Series.
3rd Coat: SW Pro Industrial Acrylic Coating, Semi-gloss B66-650 or 600 Series

EXTERIOR & INTERIOR FIBER-CEMENT (FACTORY FINISH W/ PRIMED & FINISHED CUTS)
Field Prime: PrimePlus
1st Coat: SW Duration Exterior ACRYLIC Latex Satin
2nd Coat: SW Duration Exterior ACRYLIC Latex Satin

INTERIOR CONCRETE FLOOR & MASONRY WALLS (TOILETS)
Masonry Wall Primer: SW Loxon Concrete & Masonry Primer / Sealer LX02W0050
1st Coat: SW Pro Industrial High Performance Epoxy
2nd Coat: SW Pro Industrial High Performance Epoxy

INTERIOR CMU WALLS (UTILITY ROOM)
Primer: SW Loxon Concrete & Masonry Primer / Sealer LX02W0050
2nd Coat: SW Pro-Mar 200HP Zero VOC Interior Acrylic, Eg-Shel B20-1900 Series
3rd Coat: SW Pro-Mar 200HP Zero VOC Interior Acrylic, Eg-Shel B20-1900 Series

INTERIOR CONCRETE FLOOR (UTILITY ROOMS ONLY)
H&C CLEAR WATERPROOF, LOW VOC SEALER

INTERIOR GYPSUM DRYWALL:
1st Coat: SW Pro-Mar 200 Zero VOC Interior Latex Primer
2nd Coat: SW Pro-Mar 200HP Zero VOC Acrylic (SEMI-GLOSS)
3rd Coat: SW Pro-Mar 200HP Zero VOC Acrylic (SEMI-GLOSS)

10425 EXTERIOR SIGNAGE
1. PROVIDE EXTERIOR ADA SYSTEM. COLOR AS SELECTED BY ARCHITECT.
2. PROVIDE (1) 6"x8" AT EACH TOILET DOOR MOUNTED AT 60" A.F.F TO CENTER. SIGNS SHOULD INDICASTE "MEN" OR "WOMEN" AS WELL AS HC ACCESSIBILITY.
3. ADDITIONAL INTERIOR SIGNAGE BY OWNER.

10800 TOILET ACCESSORIES **
1. SEE PLANS

13850 FIRE ALARM & DETECTION
SEE ELECTRICAL

15000 MECHANICAL **
SEE PLUMBING & MECHANICAL PLANS
SUBMIT ALL EQUIPMENT & FIXTURES FOR REVIEW

16000 ELECTRICAL **
SEE ELECTRICAL PLANS
SUBMIT ALL PANELS, DEVICES & LIGHTING FOR REVIEW

COMMONWEALTH OF VIRGINIA
DEX A. SANDERS
Lic. No. 8814
05-27-22
ARCHITECT

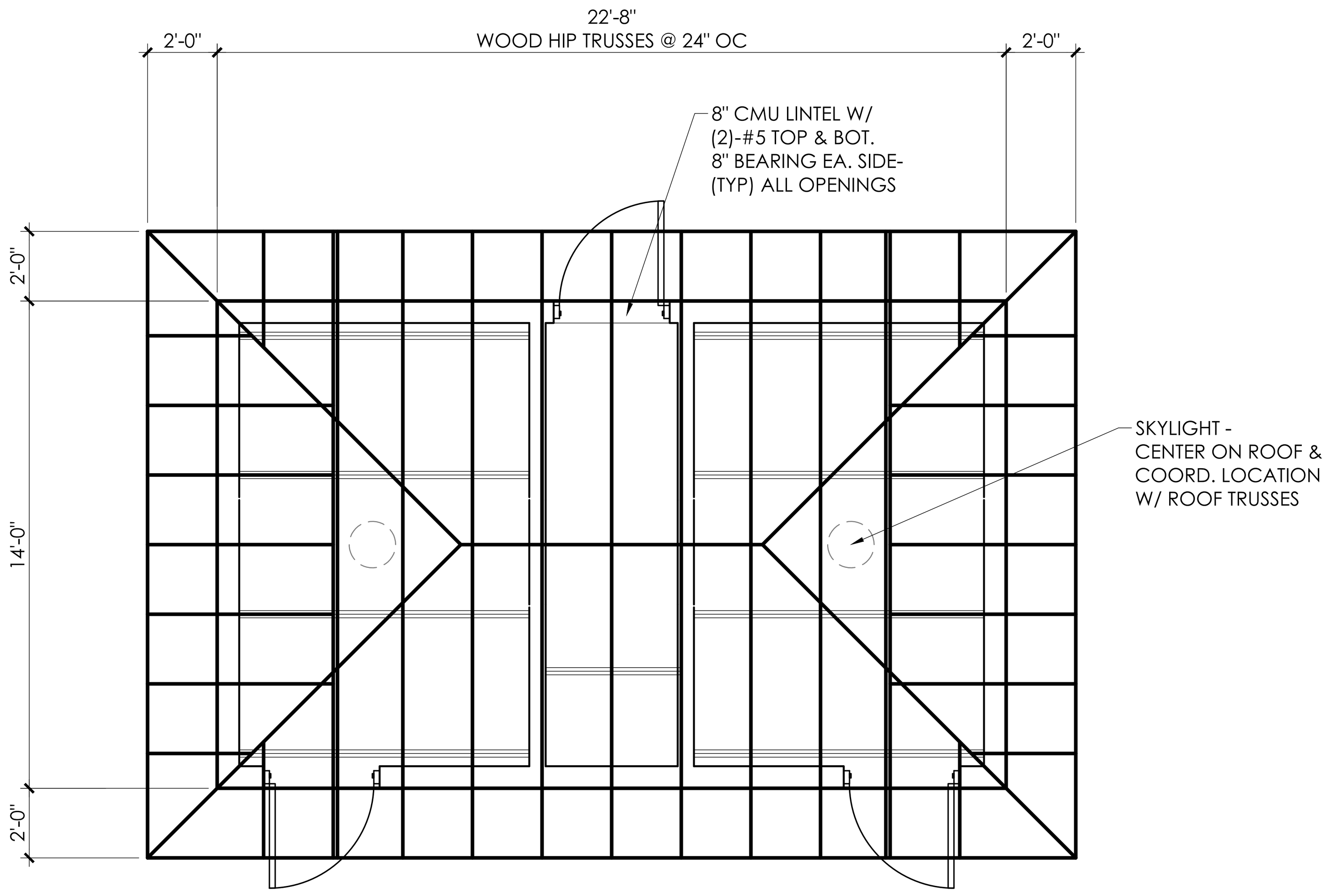
PUBLIC TOILET BUILDING

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22				
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22				
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

SANDERS
ARCHITECTURE PC
16125 RACCOON FORD RD
CULPEPER, VIRGINIA 22701
(v)540-829-2590

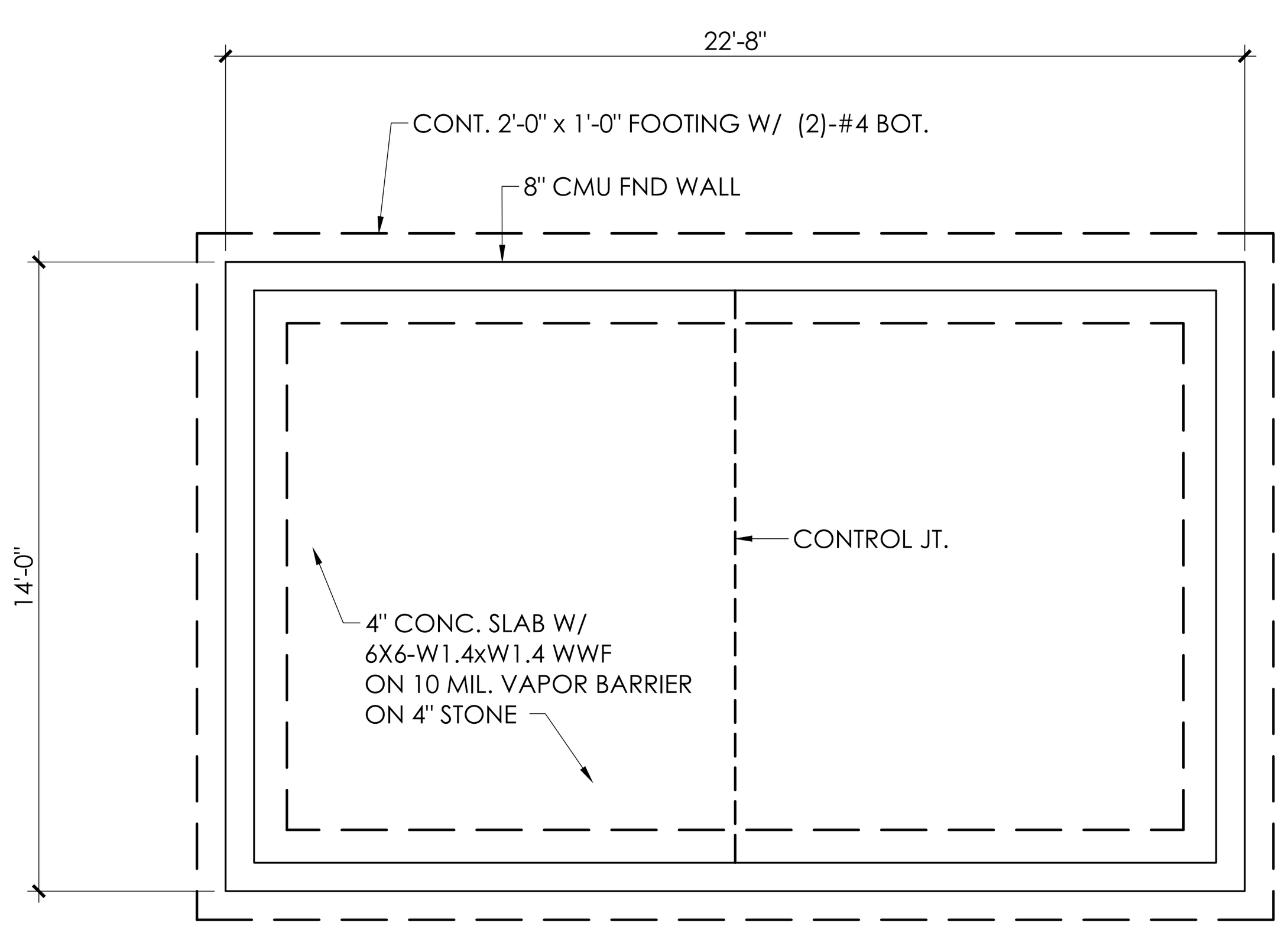
W/W ASSOCIATES
ENGINEERS
SURVEYORS
PLANNERS
PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY:	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PROJECT TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY:			
DIHR BY: HFW	TITLE: ARCHITECTURAL NOTES & SPECIFICATIONS		DRAWING NUMBER: A0.2
WWA NUMBER: 220047.01	FILE NAME: P2114A-CD.dwg	DISCIPLINE:	SCALE: H: V: NOTED
			DATE: 05/27/22



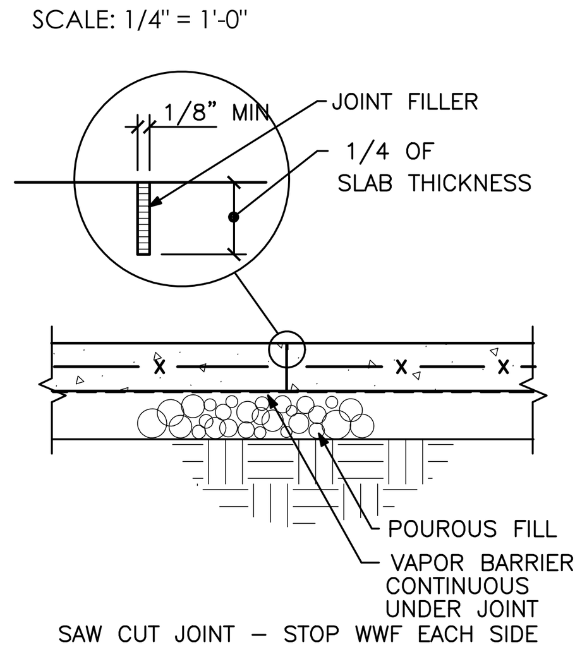
ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"



CONTROL JOINT DETAIL

SCALE: 3/4" = 1'-0"

FOUNDATION EXCAVATION NOTES:

1. WHERE SOIL IS OVER EXCAVATED UNDER FOOTINGS BELOW DESIGN ELEVATIONS FOR CONTRACTOR CONVIENINCE OR DUE TO TYPE OF EQUIPMENT UTILIZED, CONTRACTOR TO PLACE CONCRETE FLOWABLE FILL TO BRING BOTTOM OF FOOTING UP TO DESIGN ELEVATION OR FOLLOW RECOMMENDATIONS OF GEOTECHNICAL ENGINEER.
2. CONTRACTOR TO PROVIDE ALL SHORING AND BARRICADES NECESSARY TO CREATE SAFE WORKING CONDITIONS WITHIN AND AROUND EXCAVATIONS.
3. WHERE VERTICAL REINFORCING BARS ARE EXPOSED FOR AN EXTENDED PERIOD BELOW WALKING SURFACES, PROVIDE PROTECTION AGAINST FALL IMPALEMENT.

FOUNDATION NOTES

1. ALL FOOTINGS ARE DESIGNED TO REST ON UNDISTRUBED NATURAL SOIL OR CONTROLLED COMPACTED FILL HAVING A MINIMUM SAFE BEARING CAPACITY OF 2,000 PSF. ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. IF SOIL OF THE DESIGNED CAPACITY IS NOT ENCOUNTERED AT THE ELEVATIONS SHOWN, THE FOOTING SHALL BE LOWERED OR THE SIZE AND REINFORCEMENT ADJUSTED AS DIRECTED BY THE ARCHITECT. OBTAIN INSPECTION AND APPROVAL OF FINAL FOOTING EXCAVATIONS BY A REGISTERED GEOTECHNICAL PROFESSIONAL ENGINEER BEFORE PLACING FOUNDATION CONCRETE.
2. FIELD VERIFY ALL EXISTING GRADES. ADJUST FOOTING ELEVATION TO FINISHED GRADES.
3. BOTTOM OF ALL FOOTINGS SHALL BE A MIN. OF 1'-0" BELOW EXIST. GRADES AND 2'-4" MIN. BELOW FINAL GRADES.
4. UNLESS OTHERWISE INDICATED, WALL FOOTINGS SHALL BE CENTERED ON WALLS; COLUMN FOOTINGS SHALL BE CENTERED ON COL. PEDESTALS.
5. STEPS IN WALL FOOTINGS SHALL HAVE A MIN. SPACING OF DOUBLE THE CHANGE IN ELEVATION.
6. PROTECT ALL FOOTINGS FROM PHYSICAL DAMAGE OR REDUCED STRENGTH CAUSED BY FROST HEAVE OR FREEZING ACTIONS.

ROOF FRAMING NOTES

1. ALL TRUSSES @ 24" OC MAXIMUM UNLESS NOTED OTHERWISE.

2. CONTRACTOR TO PROVIDE ALL BLOCK'G, BRACING & OTHER FRAMING NECESSARY TO FRAME ALL CEILINGS, SOFFITS, CHASES & SKYLIGHTS.

3. COORDINATE EXACT EQUIPMENT LOCATIONS, WEIGHT AND DUCT ROUTING WITH TRUSS MFG.

4. TRUSSES TO BE DESIGNED BY MFG. ENGINEERED DRAWINGS ARE REQUIRED TO HAVE VIRGINIA PROFESSIONAL SEAL. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION.

5. DESIGN TRUSSES: L/480 FOR LIVE LOAD & L/360 FOR LIVE LOAD + DEAD LOAD.

6. TRUSS MFG. TO PROVIDE TRUSS CLIPS FOR MULTIPLE PLY TRUSSES.

7. TRUSS MANUFACTURER SHALL DESIGN COMPLETE BRACING SYSTEM AND PROVIDE PLANS AND DETAILS OF BRACING AS PART OF TRUSS DRAWING SUBMITTAL. PROVIDE FULL BRACING REQUIRED FOR SUPPORT WITH NO INTERIOR OR EXTERIOR CEILING FINISHES.

LAP SPLICES OF BRACING MEMBERS ACROSS (2) TRUSSES MINIMUM.

ROOM / SPACE OCCUPANCY DETERMINATION

NOTE THAT TOTAL BUILDING OCCUPANCY IS INDICATED ON SHEET A0.1

101 — ROOM / SPACE NUMBER
CONFERENCE — ROOM / SPACE NAME
239 SF / 100 = 2 — OCCUPANCY BASED ON TABLE 1004.5
(8) — DESIGN (ACTUAL) ROOM / SPACE OCCUPANCY (1004.1)

WASHROOM ACCESSORIES (1)

1. TOILET TISSUE HOLDER: BOBRICK B-265 SS SECURITY DOUBLE ROLL HOLDER. (1) AT EACH TOILET.
2. AUTOMATIC HAND DRYER: XLERATOR, SENSOR OPERATED, WHITE EPOXY, ADA COMPLIANT, 208V, 6.2A (VER. VOLTAGE) MOUNT 48" TO TOP OF OPERABLE PARTS.
3. MIRROR: 24" WIDE x 3'-0" HIGH $\frac{1}{4}$" TEMPERED GLASS IN TYPE 430 STAINLESS STEEL CHANNEL FRAME - SECURELY CLIPPED TO WALL. MIRROR SHALL BE GUARANTEED AGAINST SILVER SPOILAGE FOR 15 YEARS.
4. TOILET STALL GRAB BARS: EQ. TO ASI 3800 SERIES W/ INTEGRAL NON-SLIP SURFACE. PROVIDE (1)-42" LONG & (1)-36" & (1) 18" LONG GRAB BAR AS INDICATED IN EACH ACCESSIBLE TOILET STALL.
5. BOBRIC B-2111 VANDAL RESISTANT SURFACE MOUNTED SOAP DISPENSER

TOILET PARTITION SPECIFICATION

1. TOILET PARTITIONS TO BE EQUAL TO ASI GLOBAL #304 STAINLESS STEEL, FLOOR ANCHORED AND OVERHEAD BRACED AS FOLLOWS:

PANELS
1" THICK, CONSTRUCTED OF TWO SHEETS 22 GAGE STAINLESS STEEL WITH EDGES WELDED AND GROUND SMOOTH
PARTITION TYPE
FLOOR ANCHORED W/ OVERHEAD BRACING OF ALL PARTITIONS.
DOORS & PANELS
58" HIGH & MOUNTED 12" ABOVE THE FLOOR, 1" THICKNESS. DOORS TO SWING AS INDICATED.
PILASTERS
1-1/4"" THICKNESSWITH FULLY WELDED SEAMS GROUND SMOOTH, INTEGRAL STEEL BASE AND TOP MOUNTING BAR.
HARDWARE
A. DOOR HARDWARE SHALL BE CHROMIUM-PLATED DIE CAST ZAMAC. HINGES TO BE ADJUSTED FOR SELF CLOSING. HARDWARE TO INCLUDE COAT HOOK, BUMPER, STOP AND KEEPER, LATCH, HINGES AND ALL FASTENERS NECESSARY FOR INSTALLATION.
B. PROVIDE CONTINUOUS ANGLE *WALL BRACKETS FOR PILASTERS*
C. PILASTER SHOES TO BE TYPE 304 STAINLESS STEEL.
D. ALL FASTENERS CHROME PLATED OR STAINLESS STEEL.
E. HEAD RAIL TO BRACE ALL COMPARTMENTS AND BRACE END OF FREE-STANDING COMPARTMENTS TO WALL. TOP RAIL TO BE ANODIZED ALUM, SATIN FINISH W/ ANTI-GRIP TOP PROFILE.
FINISH
ALL FACE AND EDGE SURFACES TO BE INTERGAL COLOR POLYMER. PROVIDE STL. BOT. PROTECTION EDGE, TYP.
COLOR
PREFINISHED.

2. SUBMIT PARTITION SHOP DRAWINGS, COLOR SELECTIONS AND PRODUCT INFORMATION FOR REVIEW. PROVIDE 5 YEAR WARRANTY AGAINST CORROSION & DISCOLORATION & MATERIAL DEFECT.

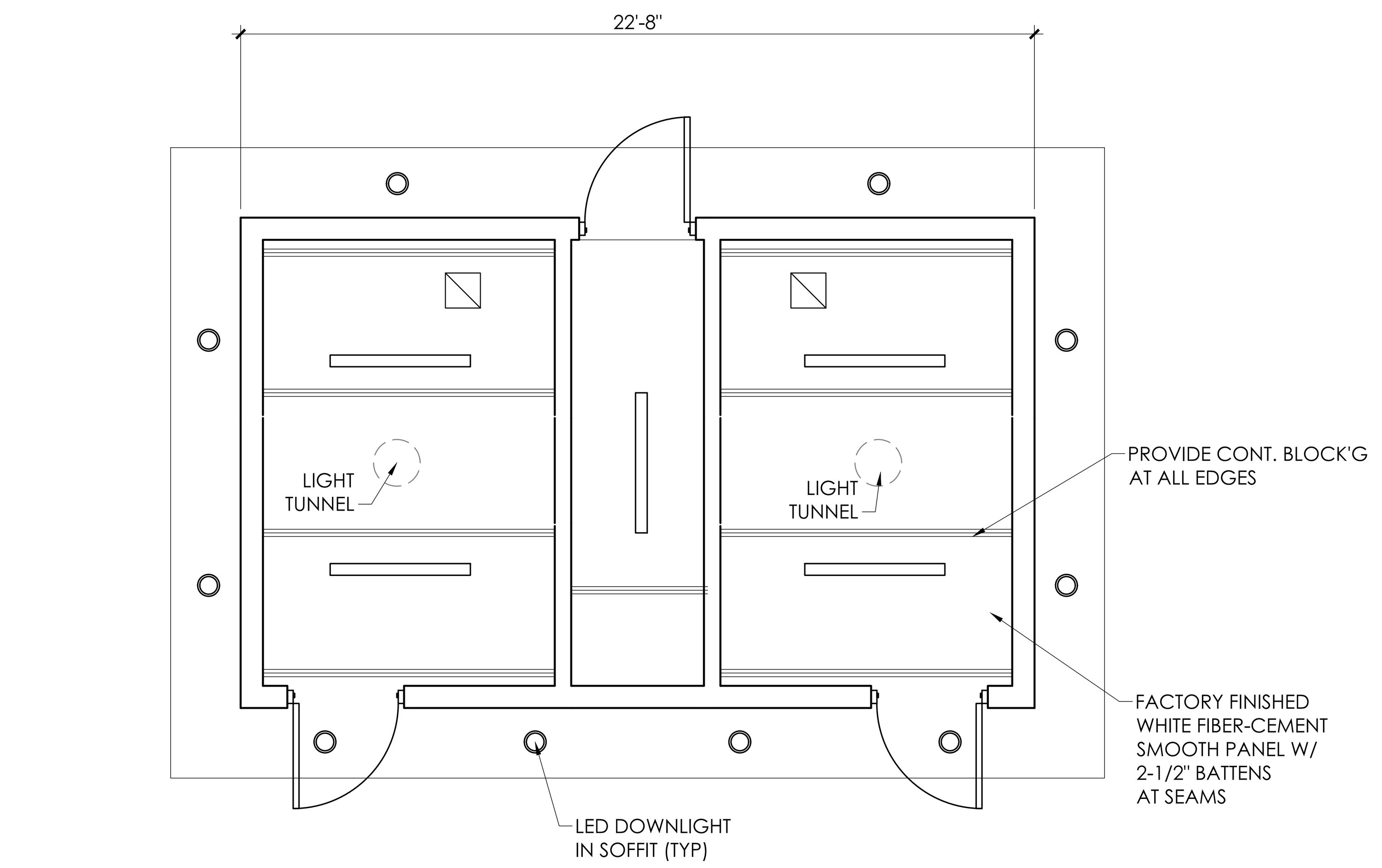
HARDWARE NOTES / TYPES

DOOR EX-1: 3'-0" x 7'-0" x 1-3/4" PTD. STL. DOOR W/ CLOSER W/ 90 DEGREE STOP, (3) 5 KNUCKLE SS HINGES EA., SS PUSH / PULL, KEYED / THUMB TURN DEADBOLT, WEATHERSTIPPING, 6" ALUM. THRESHOLD, BOTTOM DRIP

DOOR EX-1 & EX-2: 3'-0" x 7'-0" x 1-3/4" PTD. STL. DOOR W/ CLOSER W/ 90 DEGREE STOP, SS PUSH / PULL, 12" KICKPLATE EA. SIDE, DOUBLE KEYED DEADBOLT, WEATHERSTIPPING, BOTTOM DRIP & 6" ADA ALUM. THRESHOLD

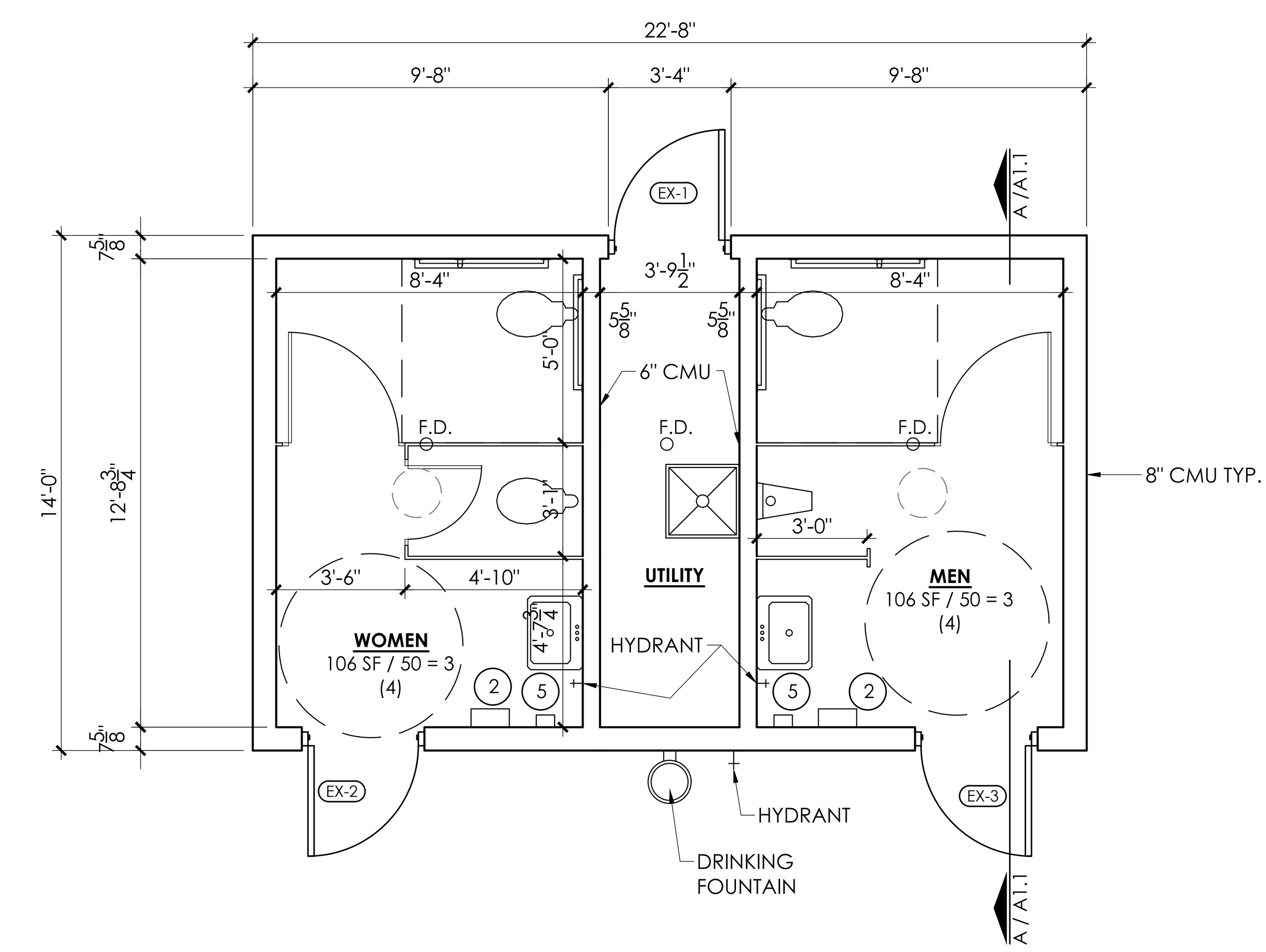
GENERAL NOTES:

1. REFERENCE THE PROJECT MANUAL FOR HARDWARE SPECIFICATIONS. HARDWARE SUPPLIER SHALL PREPARE DETAILED HARDWARE SCHEDULE FOR REVIEW UPON NOTICE TO PROCEED. FURNISH ALL HARDWARE NECESSARY FOR A COMPLETE CODE COMPLIANT INSTALLATION AS INDICATED BY THE CONSTRUCTION DOCUMENTS.



CEILING PLAN

SCALE: 1/4" = 1'-0"



FLOOR PLAN

SCALE: 1/4" = 1'-0"

PUBLIC TOILET BUILDING

COMMONWEALTH OF VIRGINIA
DEX A. SANDERS
Lic. No. 8814
05-27-22
ARCHITECT

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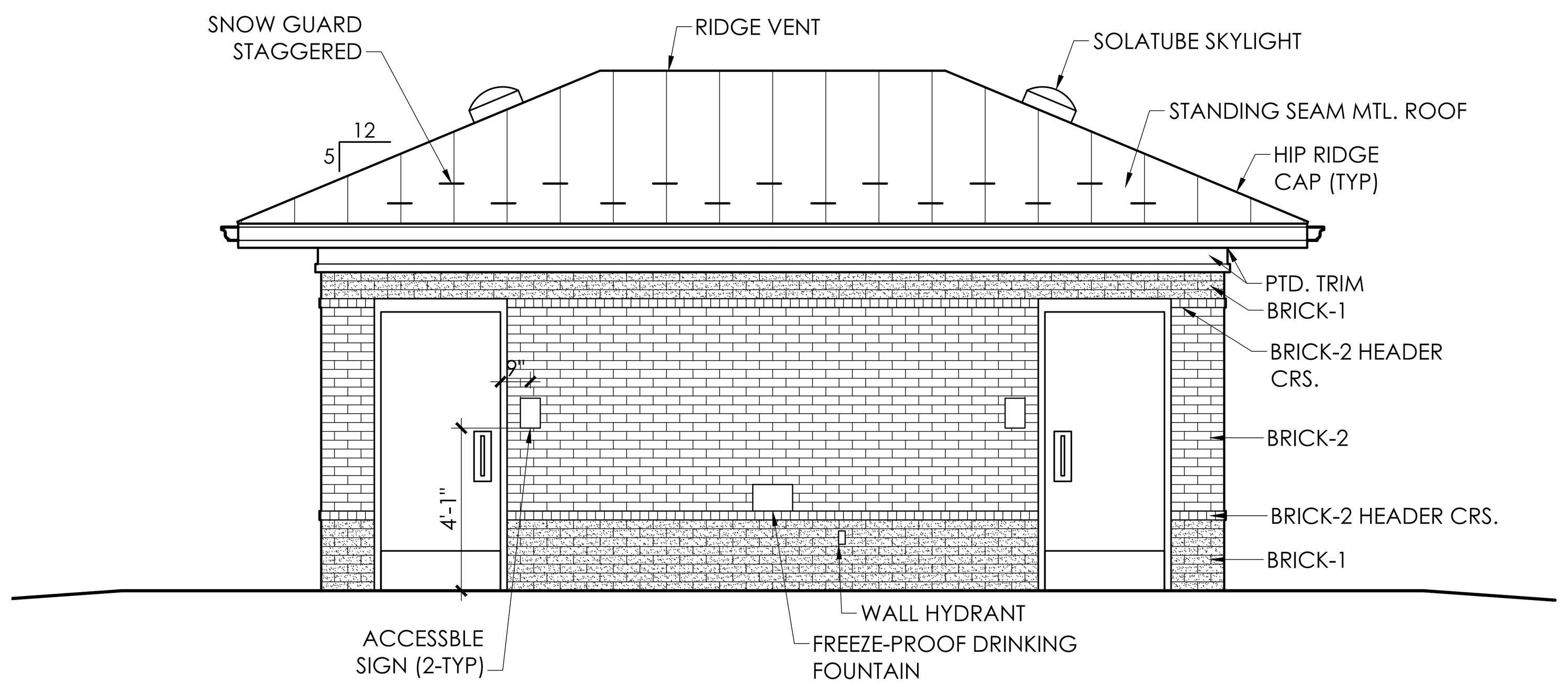
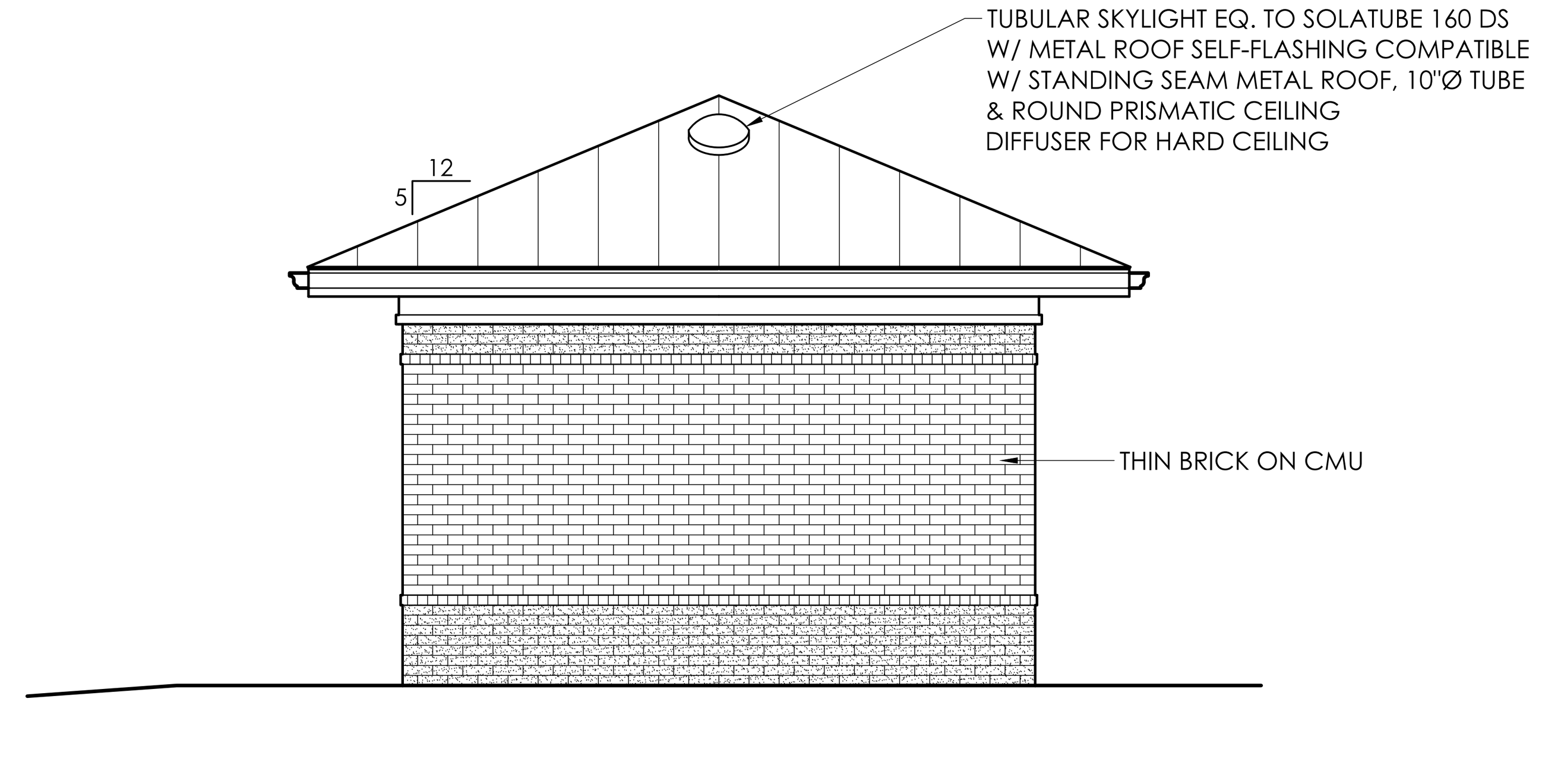
SANDERS ARCHITECTURE PC
16125 RACCOON FORD RD
CULPEPER, VIRGINIA 22701
(v)540-829-2590

W/W ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

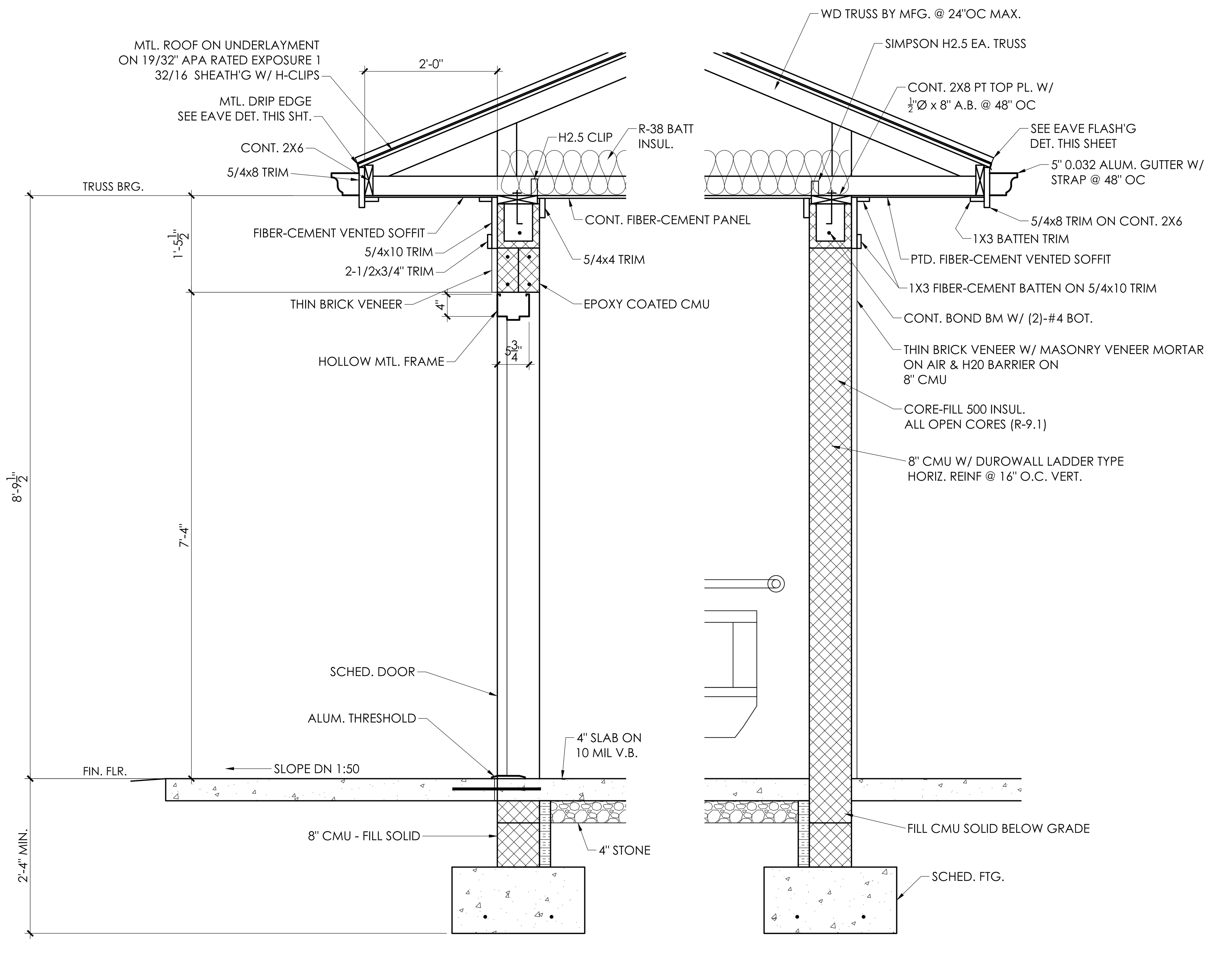
DESIGNED BY:	
DRAWN BY:	
DIHR BY:	HFW
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PROJECT TOWN OF CULPEPER, VIRGINIA
TITLE:	FOUNDATION, FRAMING & FLOOR PLANS
SET REV. NO.	3
DRAWING NUMBER:	A1.1
WWA NUMBER:	220047.01
FILE NAME:	P2114A–CD.dwg
DISCIPLINE:	
SCALE: H: V:	NOTED
DATE:	05/27/22



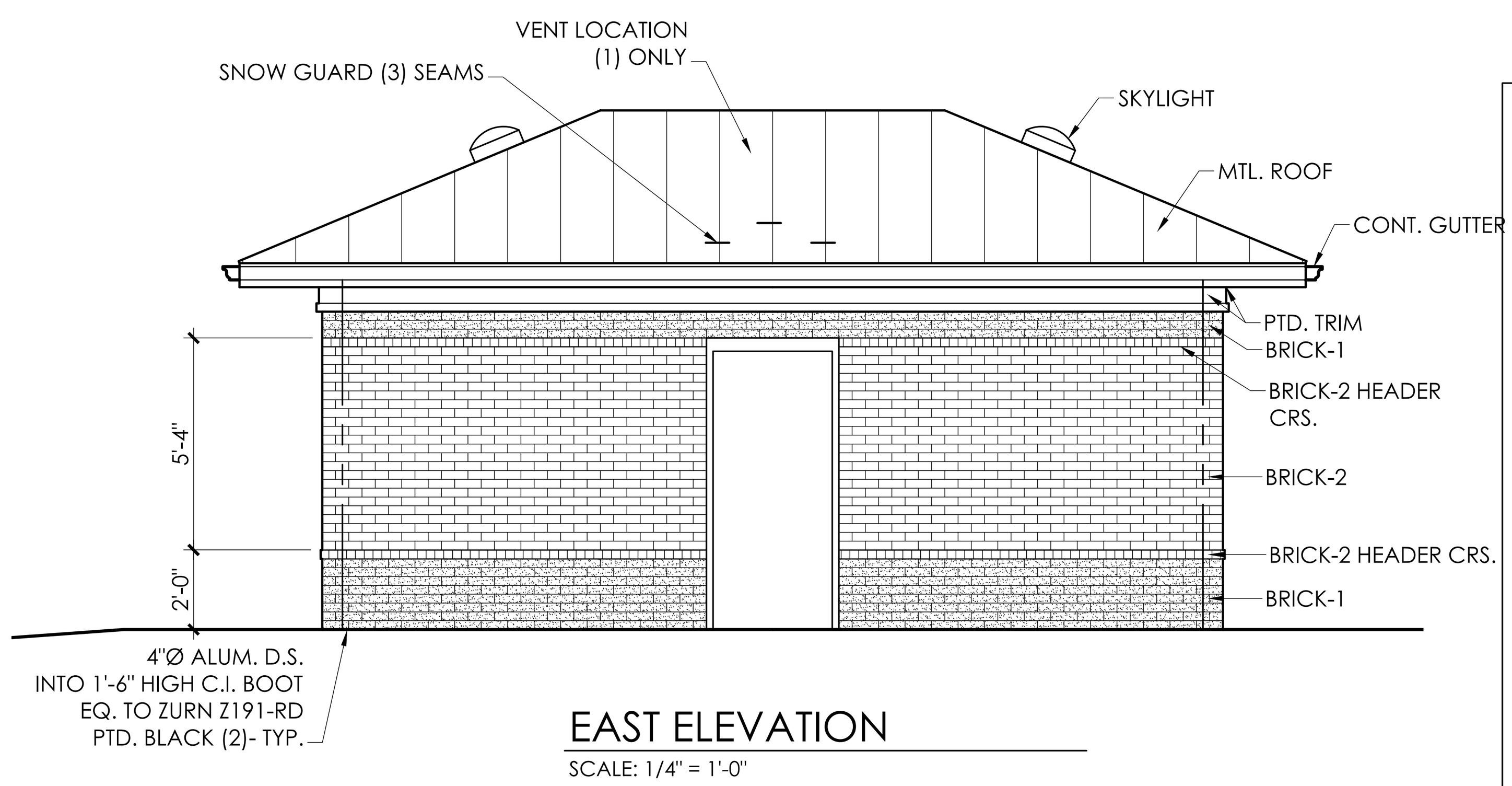
WEST ELEVATION
SCALE: 1/4" = 1'-0"



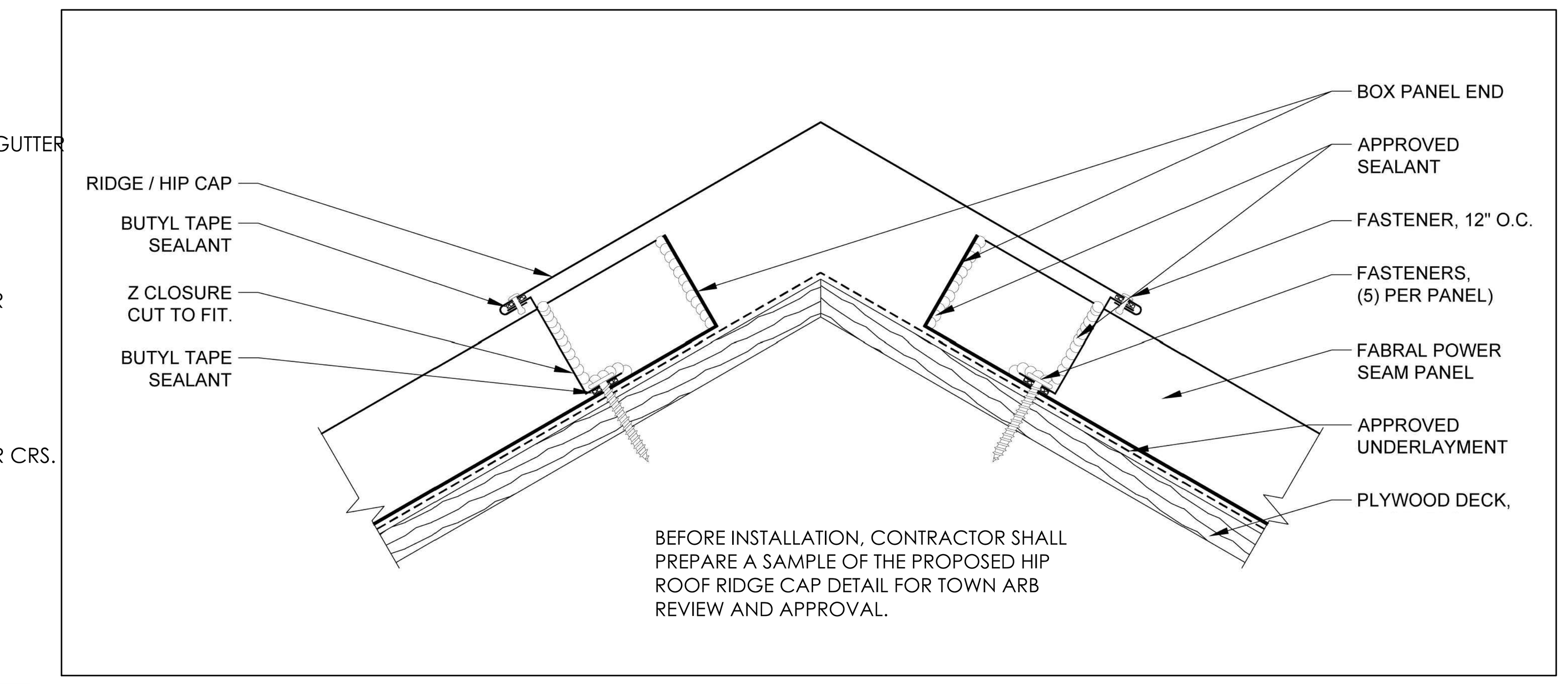
NORTH / SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



A TYPICAL SECTION
SCALE: 3/4" = 1'-0"



EAST ELEVATION
SCALE: 1/4" = 1'-0"

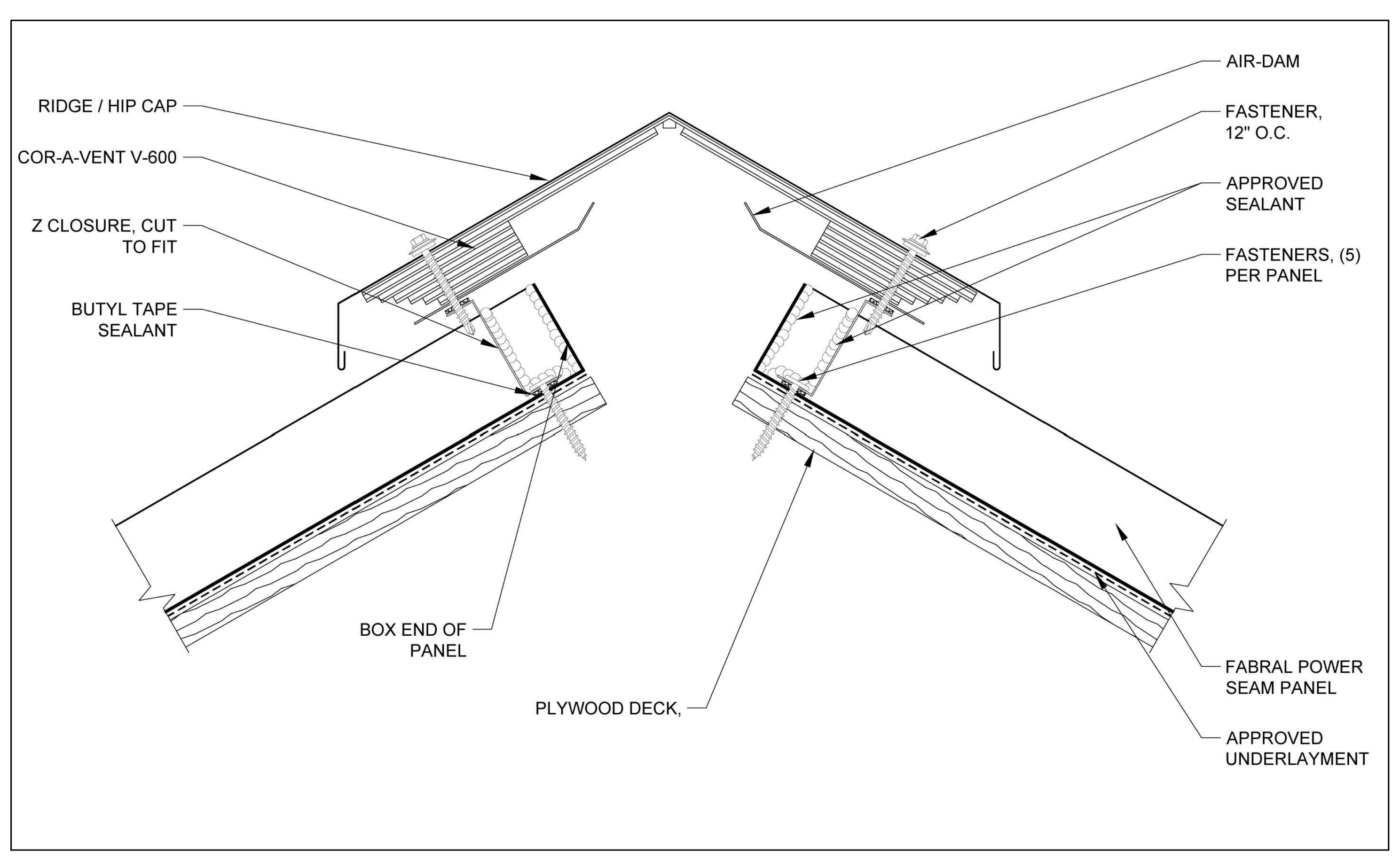


TYP. HIP RIDGE DETAIL
SCALE: N.T.S

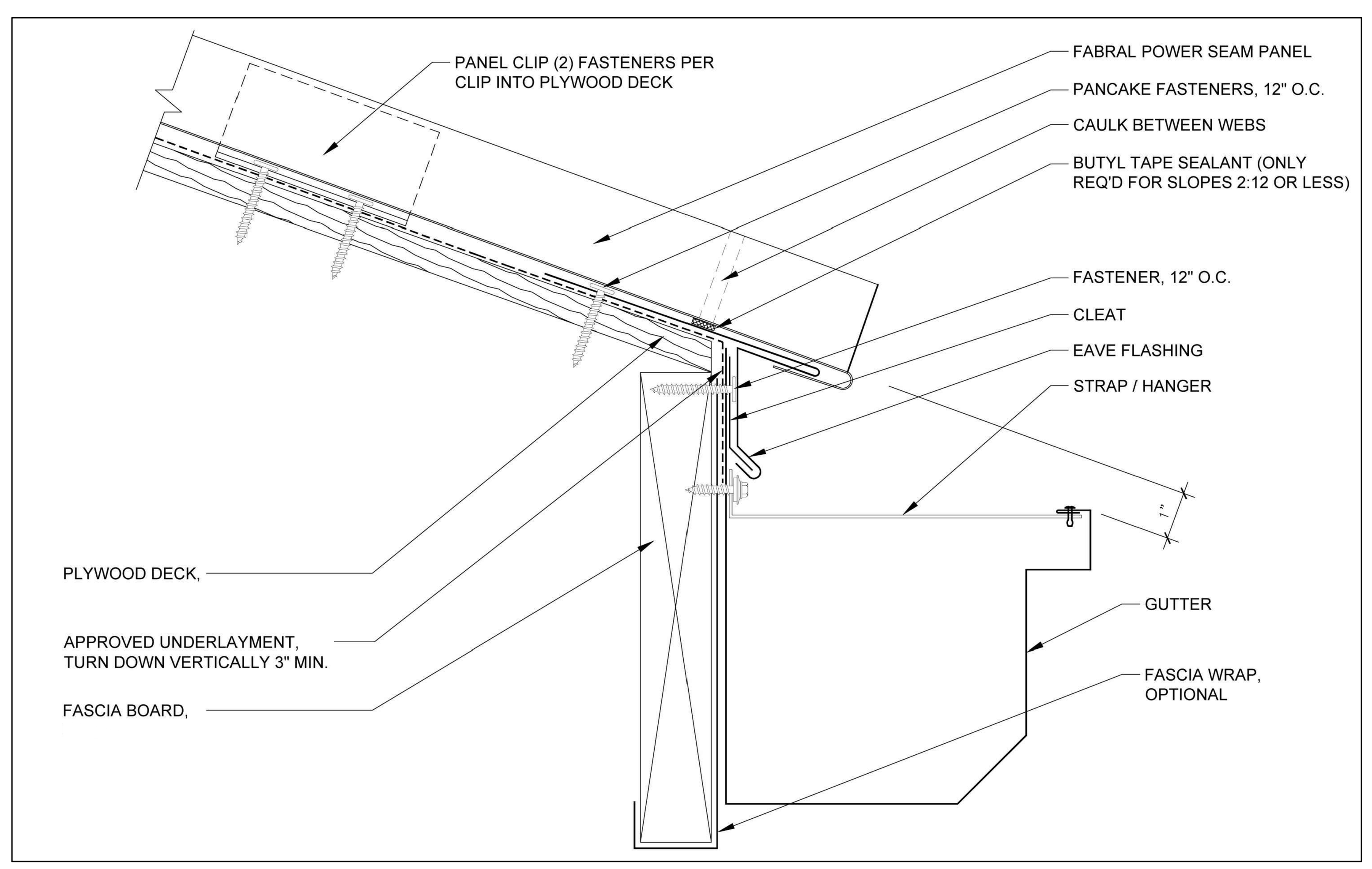
EXTERIOR COLORS

METAL ROOF:	SELECTED FROM PETERSEN PAC-CLAD STANDARD COLORS OR EQ.
FASCIA / GUTTER & D.S:	PRE-FINISHED METAL COLOR SELECTED BY THE OWNER
BRICK 1:	SELECTED BY OWNER BASIS OF DESIGN - BELDEN 8621 COARSE VELOUR THIN BRICK MODULAR
BRICK 2:	TO BE SELECTED BY OWNER BASIS OF DESIGN - BELDEN 8523 THIN BRICK MODULAR
MORTAR:	TO BE SELECTED BY OWNER
EXTERIOR XPTD-1	SEMI-GLOSS (EXTERIOR SOFFITS & INTERIOR CEILING)
EXTERIOR XPTD-2	SEMI-GLOSS (INTERIOR & EXTERIOR DOORS & TRIM)

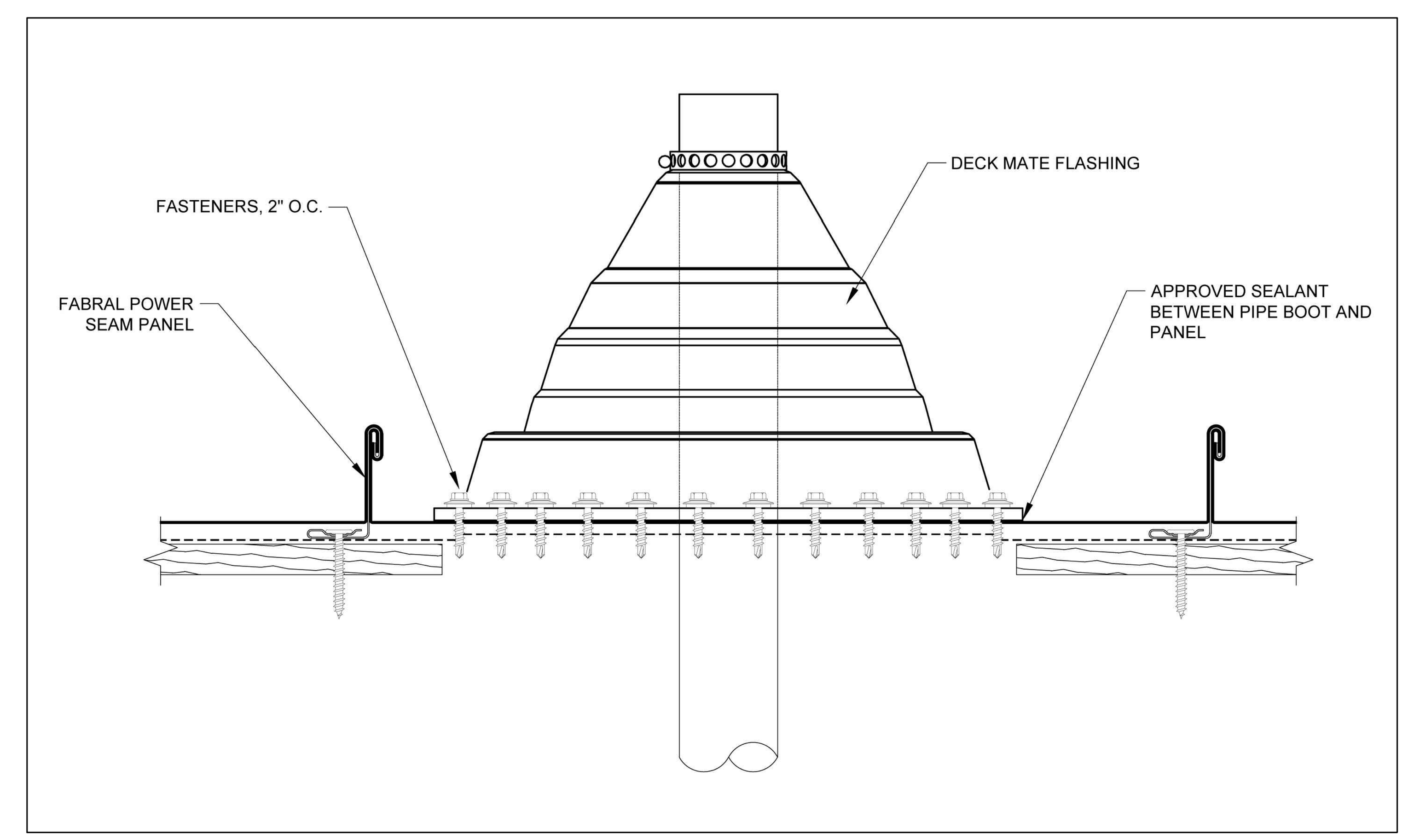
NOTES:
1. ALL EXTERIOR & INTERIOR COLORS & BRICK TO BE SELECTED BY THE OWNER.
2. SUBMIT SAMPLES OF ALL EXTERIOR COLORS FOR CONFIRMATION BEFORE ORDER.
3. CONSTRUCT A 4'-0" x 4'-0" MASONRY SAMPLE PANEL ON SITE FOR APPROVAL.



TYP. RIDGE VENT DETAIL
SCALE: N.T.S



TYP. EAVE DETAIL
SCALE: N.T.S



TYP. PIPE PENETRATION DETAIL
SCALE: N.T.S

PUBLIC TOILET BUILDING

DEX A. SANDERS Lic. No. 8814 05-27-22 COMMONWEALTH OF VIRGINIA ARCHITECT

NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
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NO.	SHEET REVISION	BY	DATE

SANDERS ARCHITECTURE PC
16125 RACCOON FORD RD
CULPEPER, VIRGINIA 22701
(v)540-829-2590

WW ASSOCIATES
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PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

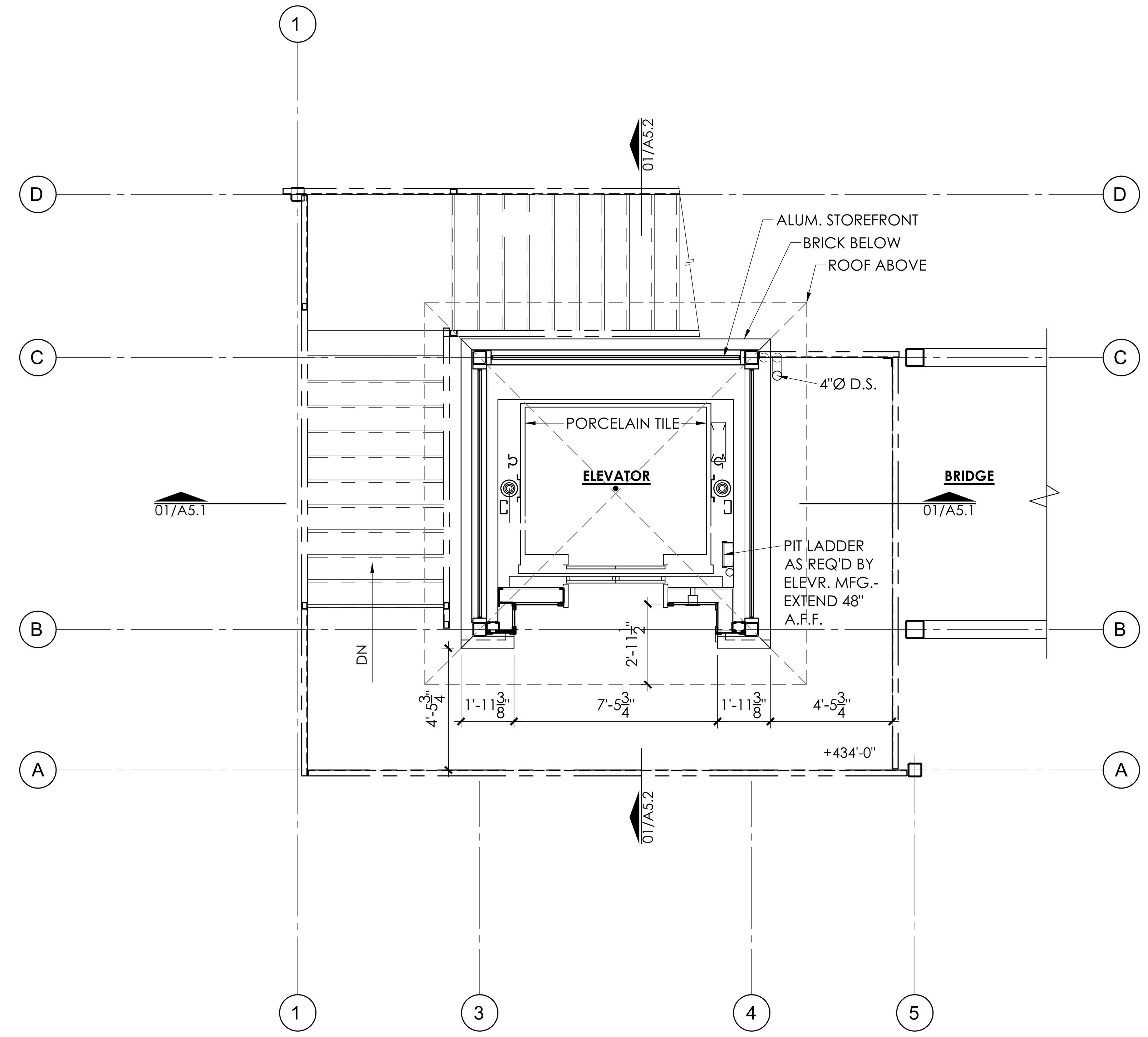
DESIGNED BY:
DRAWN BY:
DIHR BY: HFW
WWA NUMBER: 220047.01

PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PROJECT TOWN OF CULPEPER, VIRGINIA

TITLE: FLOOR PLAN / ELEVATIONS & SECTIONS

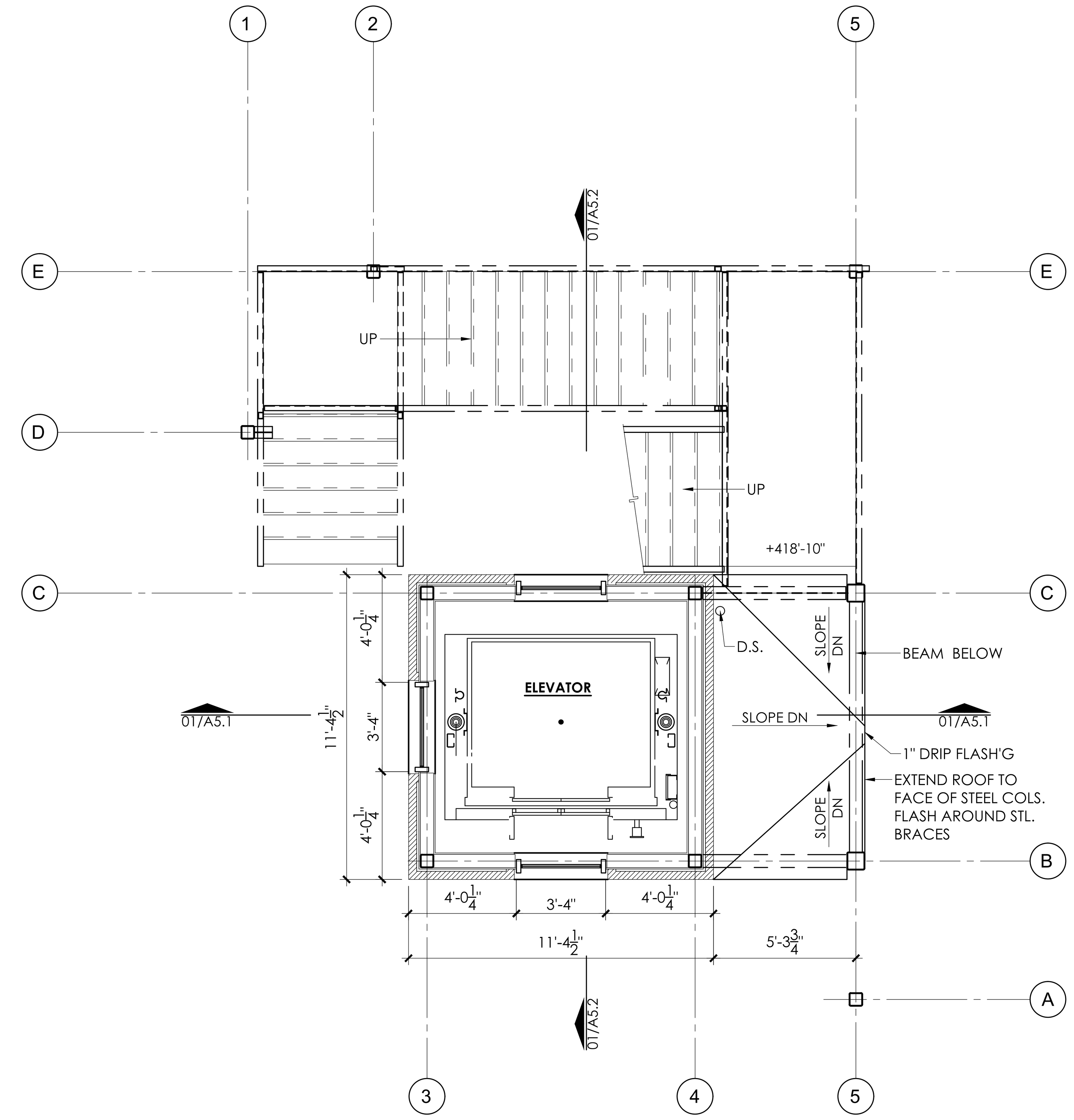
FILE NAME: P2114A-CD.dwg
DISCIPLINE:
SCALE: H: V: NOTED

SET REV. NO. 3
DRAWING NUMBER: A2.1
DATE: 05/27/22



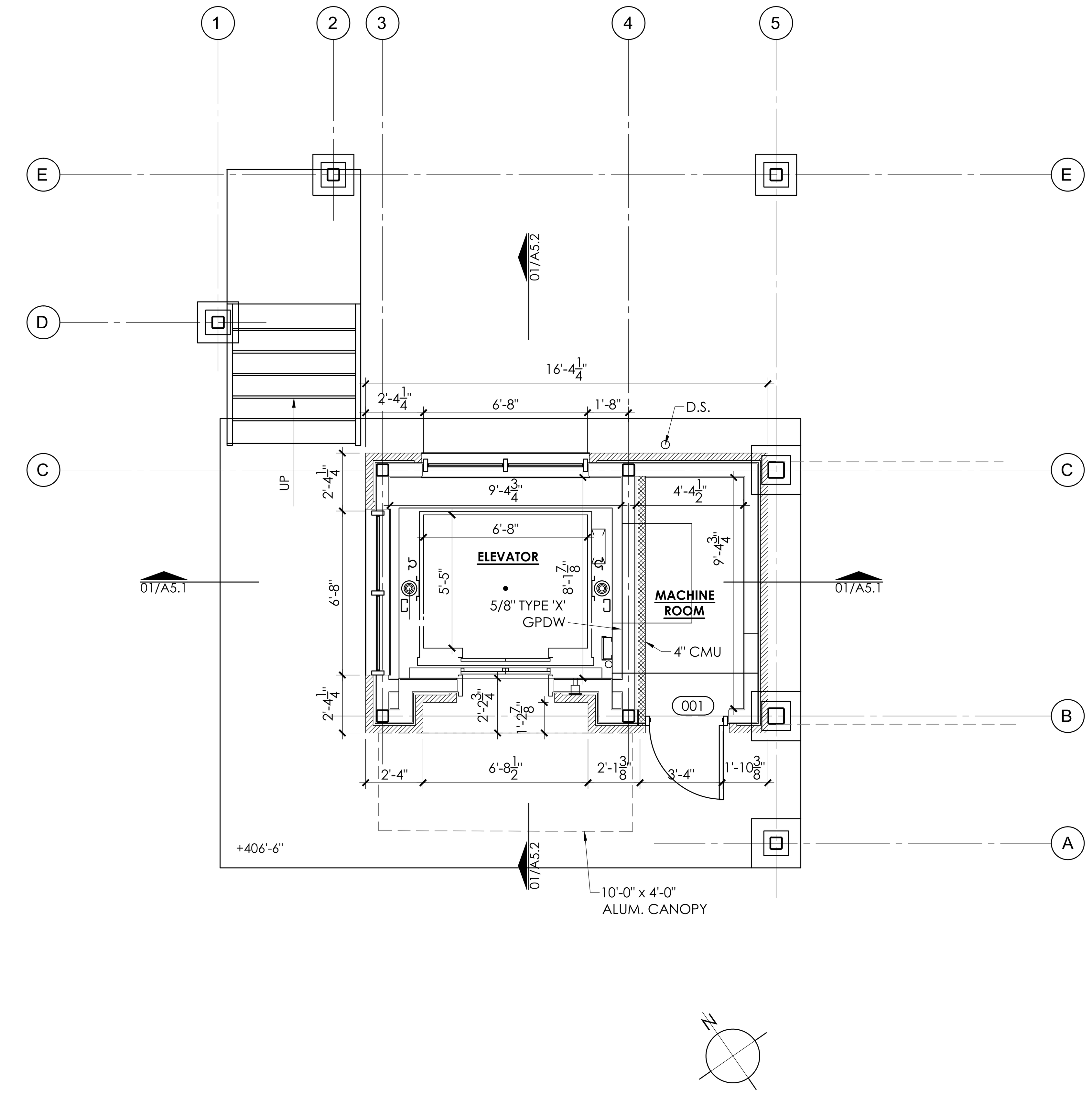
FLOOR PLAN WEST - 434'-0"

SCALE: 1/4" = 1'-0"



FLOOR PLAN WEST - 418'-10"

SCALE: 1/4" = 1'-0"



FLOOR PLAN WEST - 406'-9"

SCALE: 1/4" = 1'-0"

CODE INFORMATION - (2018 VCC)

PROJECT DESCRIPTION

SCOPE OF PROJECT INCLUDES A NEW PEDESTRIAN BRIDGE WITH SUPPORTING STAIR & ELEVATOR TOWERS.

BASIC BUILDING PLANNING
CHAPTER 3
USE GROUPS: U PUBLIC STAIR / ELEVATOR STRUCTURE
CHAPTER 4

CHAPTER 5
BUILDING LIMITATIONS (TABLES 504.3, 504.4 & 506.2):
U USE: 55 FT, 3 STORY, 8,500 SF

PROJECT ACTUAL HEIGHT & AREA:
WEST TOWER - 45'-6" HEIGHT, (2) STORY, 186 SF
EAST TOWER - 48'-9" HEIGHT, (2) STORY, 224 SF

506.3 FRONTAGE INCREASE: NOT TAKEN

508.3.3 NON-SEPARATED SINGLE OCCUPANCY

CHAPTER 6
602 CONSTRUCTION TYPE : 2B [NS]
T601 - FIRE RATING FOR BUILDING ELEMENTS: 0
T602 - EXTERIOR WALLS (0) HR. >10' SEPARATION

NO RATING PROPOSED FOR ELEVATOR SHAFT SINCE IT IS EXTERIOR AND NOT A PART OF AN OCCUPIED BUILDING.

CODE INFORMATION (CONTINUED)

CHAPTER 7 FIRE BARRIERS, FIRE PARTITIONS & HORIZONTAL ASSEMBLIES SHALL COMPLY WITH VCC CHAPTER 7.

ELEVATOR EQUIPMENT ROOM: (1) HOUR RATED AT ELEVATOR

CHAPTER 8 INTERIOR FINISHES: INTERIOR WALLS, CEILINGS, & FLOORS SHALL COMPLY WITH VCC CHAPTER 8.

CHAPTER 9 FIRE PROTECTION SYSTEMS

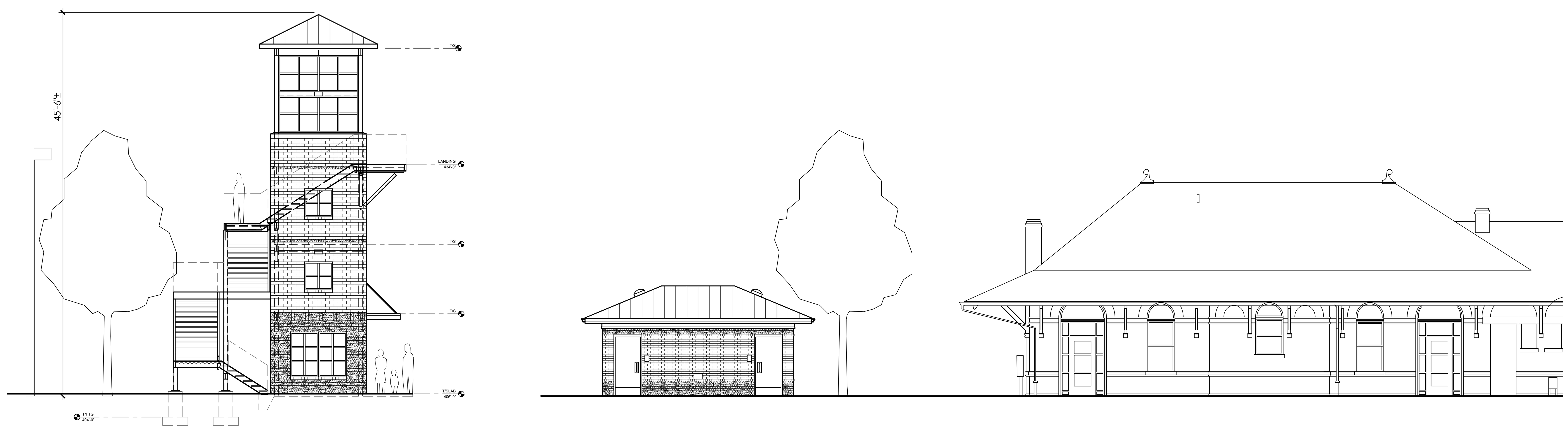
903 SPRINKLER SYSTEM [NR]
907 FIRE ALARM REQUIRED [NR]

CHAPTER 10 MEANS OF EGRESS
1004 OCCUPANCY LOADS: POSTED ELEVATOR OCCUPANCY

CHAPTER 11
1104.2 ACCESSIBLE ROUTE PROVIDED

MEP COORDINATION NOTE
PLUMBING, ELECTRICAL, & HVAC SYSTEMS ARE TO BE CONSTRUCTED AS COMPLETE, COORDINATED SYSTEMS. AS A MINIMUM THEY SHALL MEET APPLICABLE BUILDING AND LIFE SAFETY CODES UNDER VA USBC 2018 & ANSI A117.1. EACH SYSTEM DESIGNER/INSTALLER MUST COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER PROJECT SUB-CONTRACTORS.

STRUCTURE IS LOW -ENERGY, MINIMALLY CONDITIONED & IS NOT DESIGNED TO CONFORM TO THE 2018 ENERGY CODE.



COMMERCE STREET (WEST) ELEVATION

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

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05-27-22
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WEST TOWER

NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

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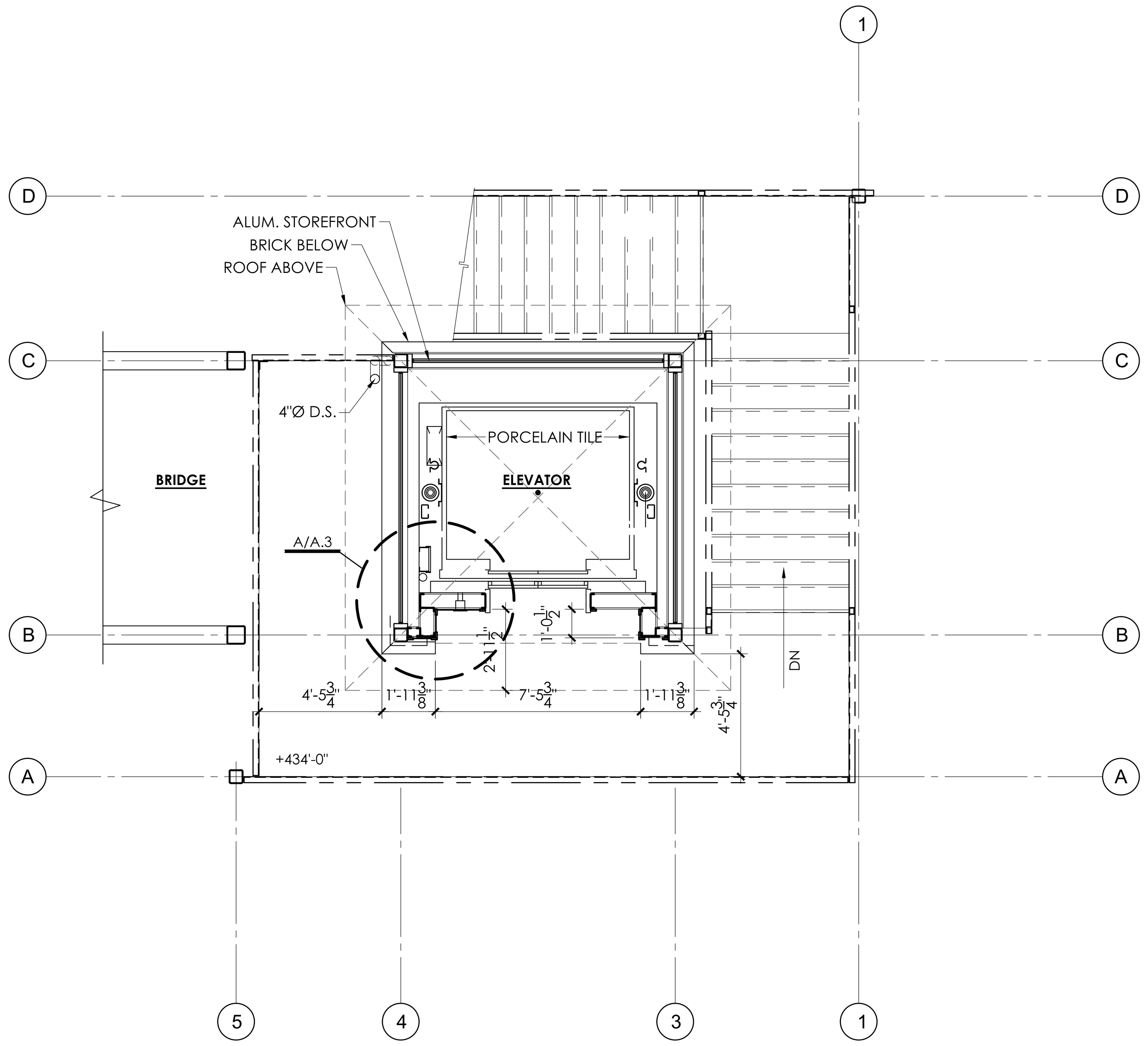
DESIGNED BY:
DRAWN BY:
DIHR BY: HFW
WWA NUMBER: 220047.01

PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PROJECT TOWN OF CULPEPER, VIRGINIA

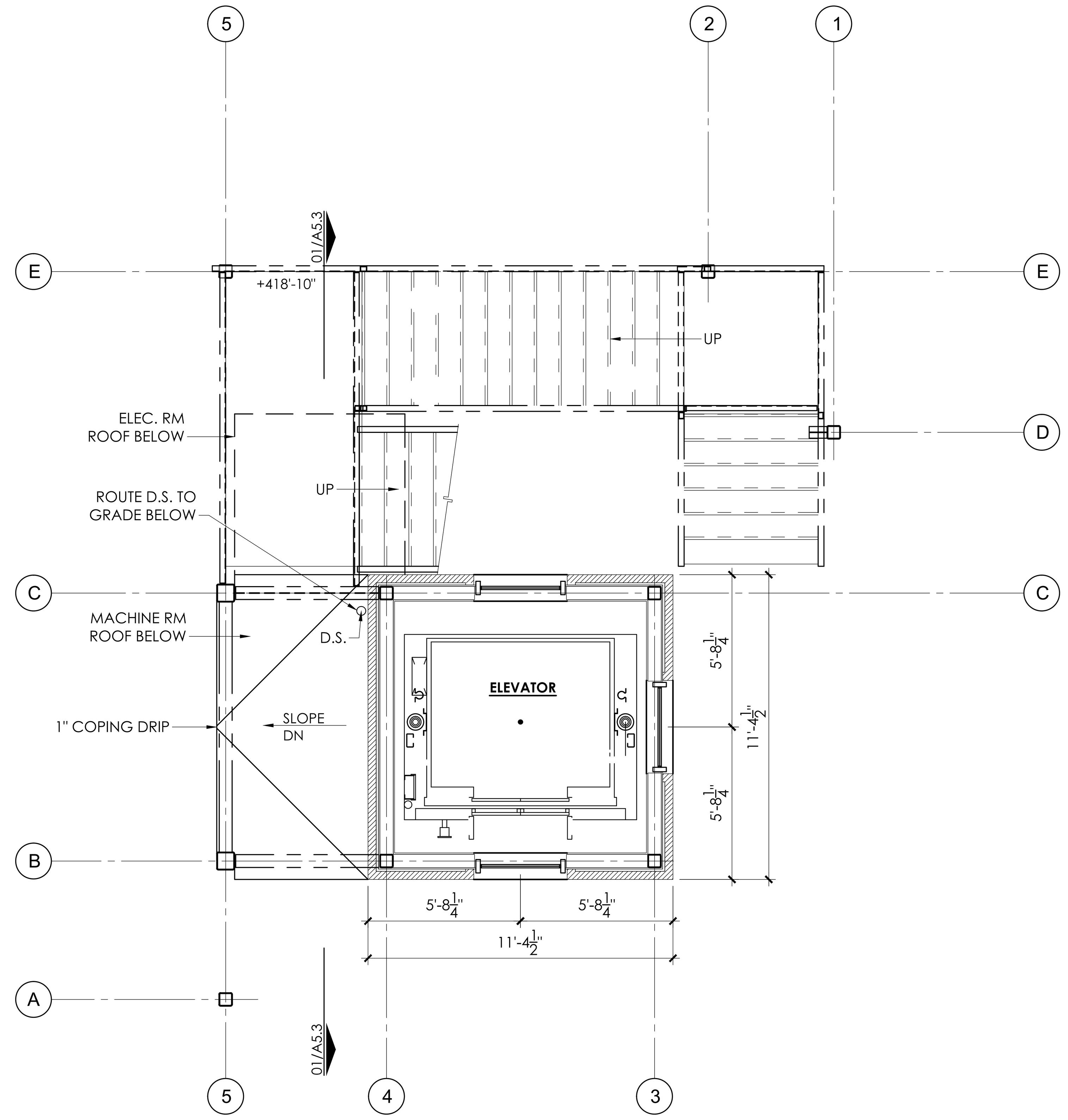
TITLE: FLOOR PLANS - WEST TOWER

FILE NAME: Unsaved Drawing1.dwg
DISCIPLINE:
SCALE: H: V: NOTED

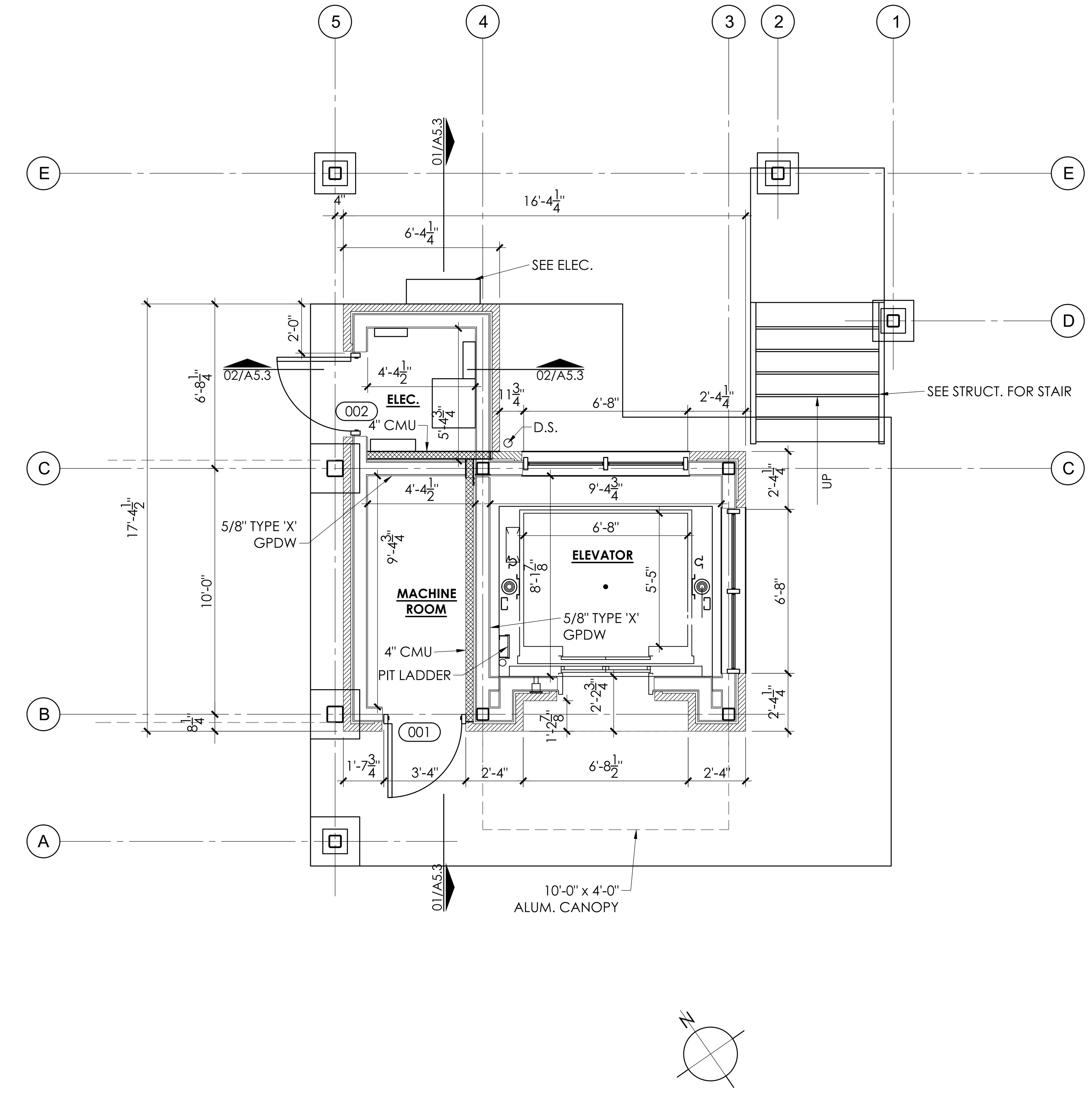
SET REV. NO. 3
DRAWING NUMBER: A3.1
DATE: 05/27/22



FLOOR PLAN EAST - 434'-0"
SCALE: 1/4" = 1'-0"



FLOOR PLAN EAST - 418'-10"
SCALE: 1/4" = 1'-0"



FLOOR PLAN EAST - 403'-0"
SCALE: 1/4" = 1'-0"

HARDWARE NOTES / TYPES

GENERAL NOTES:

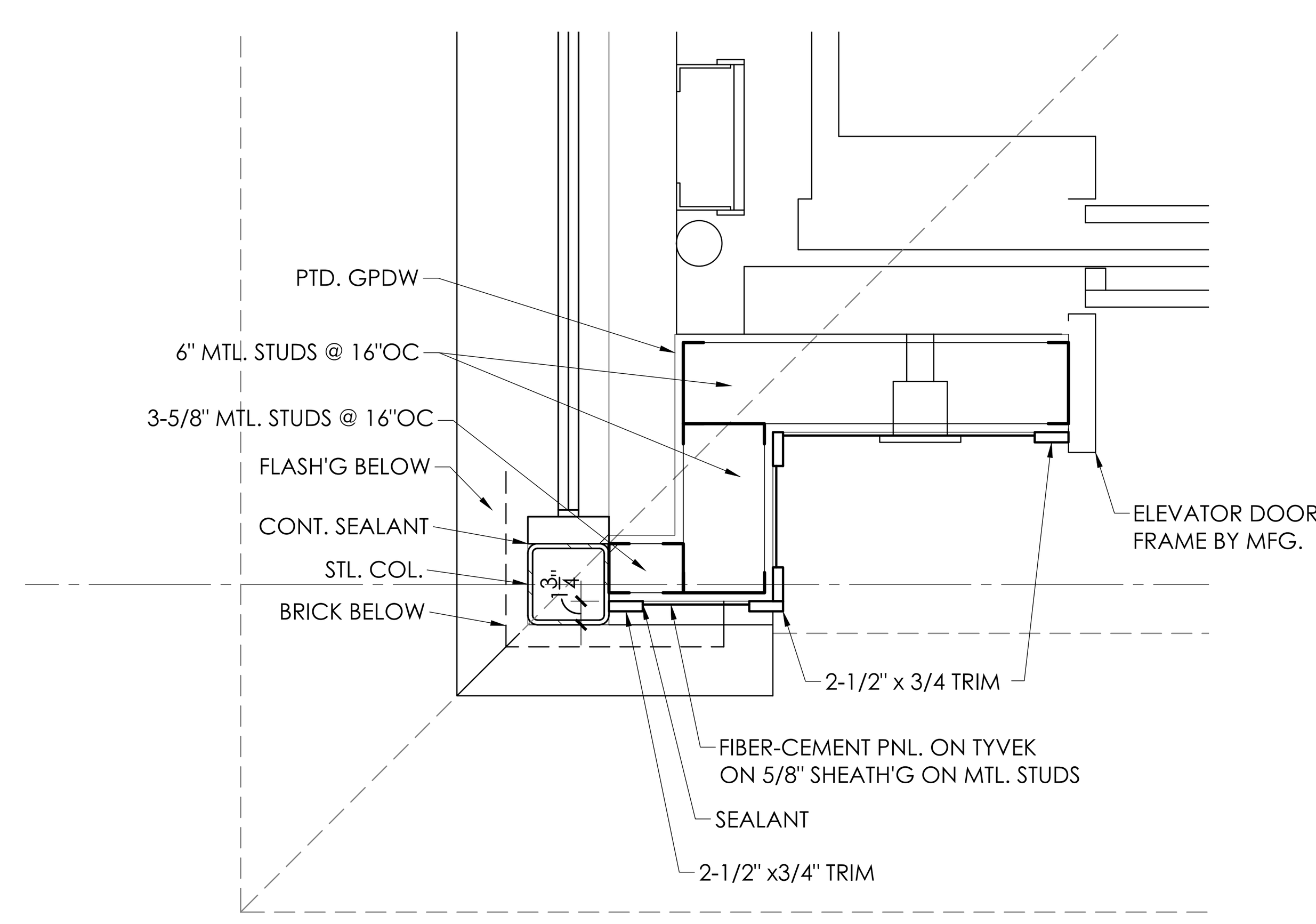
1. U.N.O. ALL HINGED DOORS TO HAVE SURFACE MOUNTED CLOSERS.
2. ALL HARDWARE SATIN STAINLESS FINISH.
3. ALL LATCH SETS AND HANDLES TO BE MATCHING LEVER STYLE W/ FULL RETURN.
4. GRADE 1 MINIMUM COMMERCIAL HARDWARE UNLESS OTHERWISE NOTED.
6. EXTERIOR DOORS TO HAVE WEATHERSTRIPPING ALL AROUND W/ SILL SWEEPS. PROVIDE SILL SWEEPS WITH DRIPS AT OUTSWINGING STEEL DOORS WITHOUT OVERHANGS.
7. INSTALL ALL LOCKSETS AS SCHEDULED. KEY ALL EXTERIOR DOORS THE SAME. KEY ALL DOORS TO A MASTER & GRANDMASTER KEY SYSTEM. COORDINATE W/ OWNER'S KEYING SYSTEM.
8. PROVIDE CLOSER STOPS AT ALL SWINGING DOORS.
9. REFERENCE THE PROJECT MANUAL FOR HARDWARE SPECIFICATIONS. HARDWARE SUPPLIER SHALL PREPARE DETAILED HARDWARE SCHEDULE FOR REVIEW UPON NOTICE TO PROCEED. FURNISH ALL HARDWARE NECESSARY FOR A COMPLETE CODE COMPLIANT INSTALLATION AS INDICATED BY THE CONSTRUCTION DOCUMENTS.

DOOR NOTES & DOOR TYPES SCHEDULE

1. ALL DOORS UP TO 7'-0" TALL TO HAVE 1 -1/2 PAIR HINGES. DOORS OVER 7'-0" TALL TO HAVE 2 PAIR HINGES.

DOOR TYPE 001: 3'-0" x 7'-0" x 1-3/4" FLUSH INSULATED STEEL DOOR WITH BRUSHED STAINLESS LEVER STOREROOM LOCKSET, ADA THRESHOLD AND CLOSER W/ HOLD OPEN & STOP. STAINLESS STEEL HINGES & MILL ALUM. THRESHOLD, SWEEPS AND DRIP.

DOOR TYPE 002: 3'-0" x 7'-0" x 1-3/4" FLUSH INSULATED STEEL DOOR W/ 24" x24" SCREENED LOUVER WITH BRUSHED STAINLESS LEVER STOREROOM LOCKSET, ADA THRESHOLD AND CLOSER W/ HOLD OPEN & STOP. STAINLESS STEEL HINGES & MILL ALUM. THRESHOLD, SWEEPS AND DRIP.



A PLAN DETAIL EAST - 434'-0"
SCALE: 1" = 1'-0" SIMILAR WEST TOWER

NOTE: U.N.O. ALL NOTES & DIMENSIONS SIM. OPP. HAND EAST & WEST TOWERS

EAST TOWER

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DIHR BY:	HFW
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PROJECT TOWN OF CULPEPER, VIRGINIA
TITLE:	FLOOR PLANS - WEST TOWER
FILE NAME:	Unsaved Drawing1.dwg
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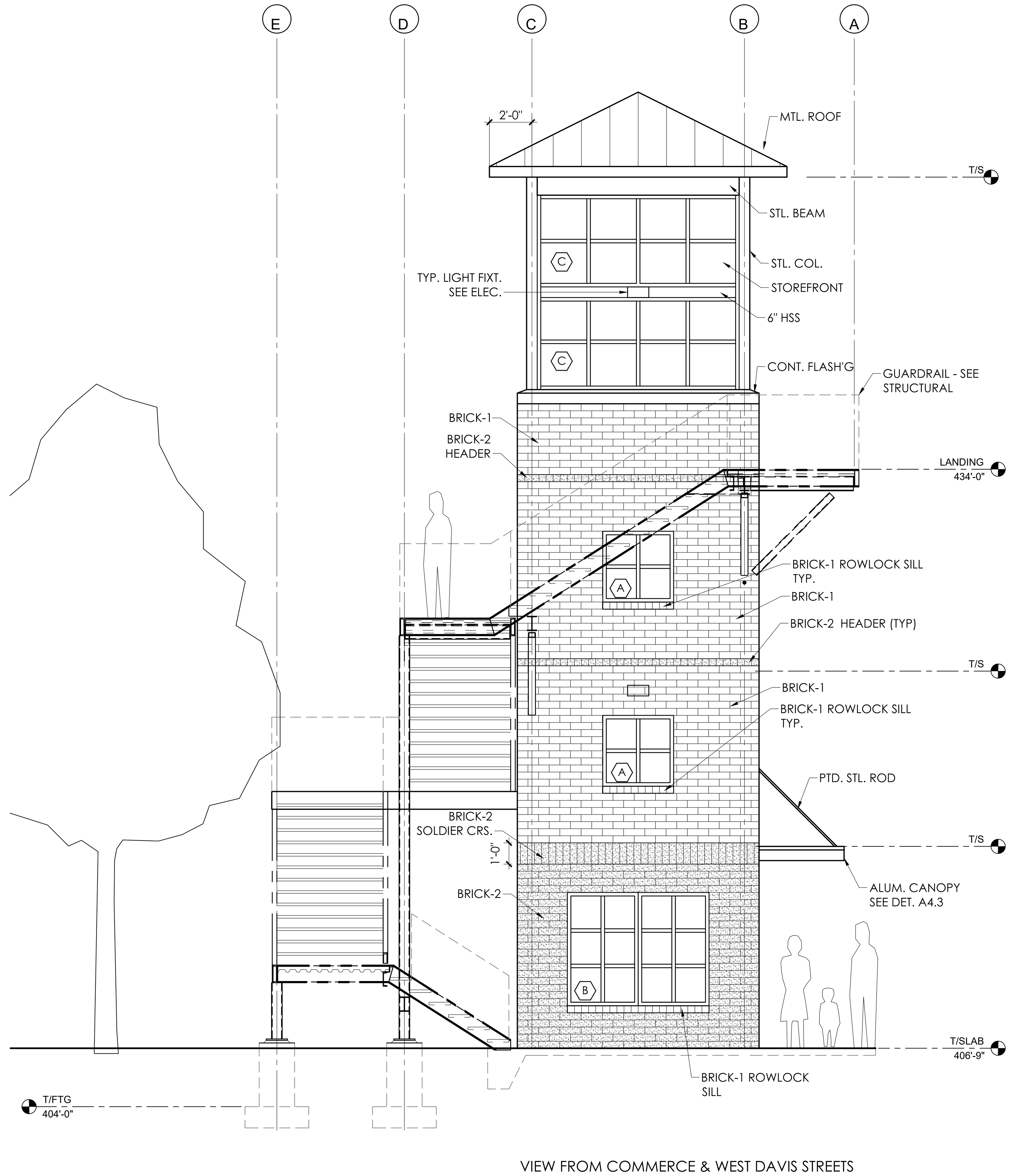
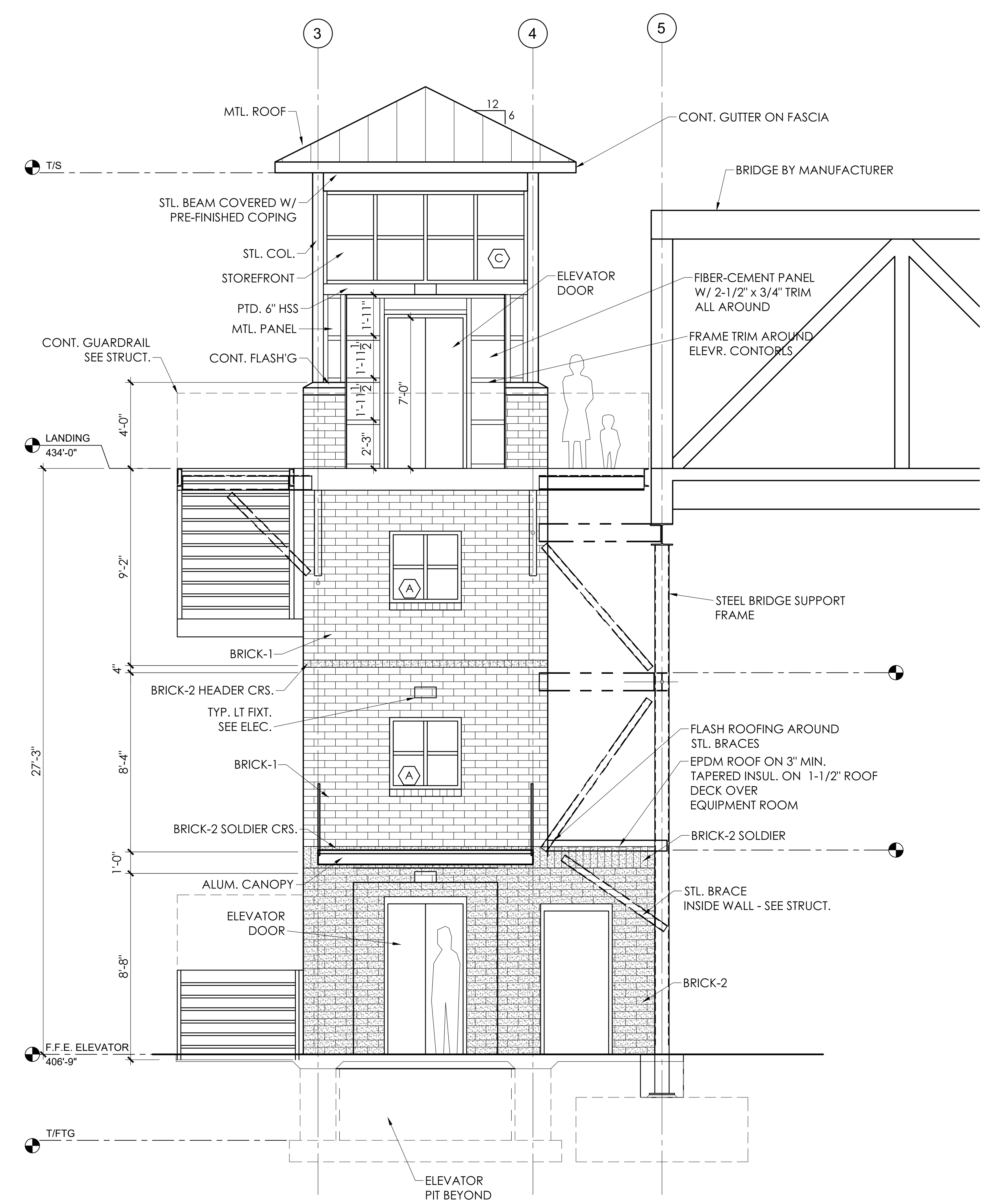
SCALE:	H: V: NOTED
SET REV. NO.	3
DRAWING NUMBER:	A3.2
DATE:	05/27/22



WEST ELEVATION

SCALE: 1/4" = 1'-0"



SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

BUILDING ROOF DRAINAGE

1. PROVIDE CONTINUOUS GUTTERS AROUND PERIMETER OF ROOF EAVES. GUTTER FOR THE TOWERS TO BE NOM. 6" x 5" COMMERCIAL BOX GUTTER PRE-FINISHED 0.32 THICKNESS ALUM. HEAVY DUTY TYPE WITH KYNAR 500 FINISH. INSTALL GUTTERS SEAMLESS (WITHOUT LEAKS) IN LENGTHS AS LONG AS PRACTICABLE. PROVIDE EXPANSION SLIP JOINTS TO PROVIDE FOR MOVEMENT WHERE NECESSARY. ATTACH GUTTERS W/ HEAVY-DUTY STRAP TYPE ANCHORS FASTENED SECURELY TO THE ROOF DECK STRUCTURE @ 4'-0' MAX. SET GUTTER ELEVATION FOR ROOF SLOPE SO HEAVY RAIN DOES NOT RUN OVER GUTTER.

2. PROVIDE PRE-FINISHED 0.24 ALUM. DOWNSPOUTS IN NOMINAL 4"Ø SIZE (CONFIRM COLOR W/ SAMPLE BEFORE ORDER). PROVIDE ALL JOINTS, SEAMS, TRANSITIONS AND STRAPS NECESSARY FOR A COMPLETE INSTALLATION. PROVIDE SCHEDULE 40 PVC TRANSITION INTO UNDERGROUND ROUND DRAINAGE PIPING WHERE INDICATED OR COMPOSITE SPLASH BLOCKS WHERE SITE PLAN INDICATES SURFACE DISCHARGE. (SEE PLUMBING & SITE PLAN)

3. PROVIDE MISC. ROOF WATER DIVERTERS AS REQUIRED TO CHANNEL WATER TO GUTTERS AND TO DIFFUSE & DIRECT WATER IN A CONTROLLED MANNER. D.S., GUTTER & MISC. PARTS COLOR TO BE SELECTED BY OWNER.

4. PROVIDE COMPLETE UNDERGROUND PIPING TO CHANNEL WATER AWAY FROM THE BUILDING AND ENTRANCES. (SEE SITE PLAN). PROVIDE PROTECTION BELOW OUTFALL TO LIMIT EROSION. VERIFY PROPOSED EXIT LOCATION WITH SITE ENGINEER.

5. PROVIDE DEBRIS GUTTER GUARDS OVER ALL GUTTERS

EXTERIOR COLORS

METAL ROOF:	SELECTED FROM PETERSEN PAC-CLAD STANDARD COLORS OR EQ.
FASCIA / GUTTER & D.S:	PRE-FINISHED METAL COLOR SELECTED BY THE OWNER
BRICK 1:	BASIS OF DESIGN - BELDEN 8621 COARSE VELOUR UTILITY TO BE SELECTED BY OWNER
BRICK 2:	BASIS OF DESIGN - BELDEN 8523 UTILITY TO BE SELECTED BY OWNER
MORTAR:	TO BE SELECTED BY OWNER
DOORS / FRAME	PTD. SEMI-GLOSS
STEEL FRAME & STAIRS	FINISH SELECTED BY OWNER
SIDING & TRIM	PTD. SEMI-GLOSS AS SELECTED BY OWNER

NOTES:
1. ALL EXTERIOR & INTERIOR COLORS & BRICK TO BE SELECTED BY THE OWNER.
2. SUBMIT SAMPLES OF ALL EXTERIOR COLORS FOR CONFIRMATION BEFORE ORDER.
3. CONSTRUCT A 4'-0" x 4'-0" MASONRY SAMPLE PANEL ON SITE SHOWING FULL RANGE OF COLORS & PATTERNS FOR APPROVAL BEFORE MASONRY MATERIAL ORDER.

WEST TOWER

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05-27-22
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CULPEPER, VIRGINIA 22701
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DESIGNED BY:	
DRAWN BY:	
DIHR BY:	HFW
WWA NUMBER:	220047.01
PROJECT:	CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PROJECT TOWN OF CULPEPER, VIRGINIA
TITLE:	EXTERIOR ELEVATIONS - WEST TOWER
FILE NAME:	Unsaved Drawing1.dwg
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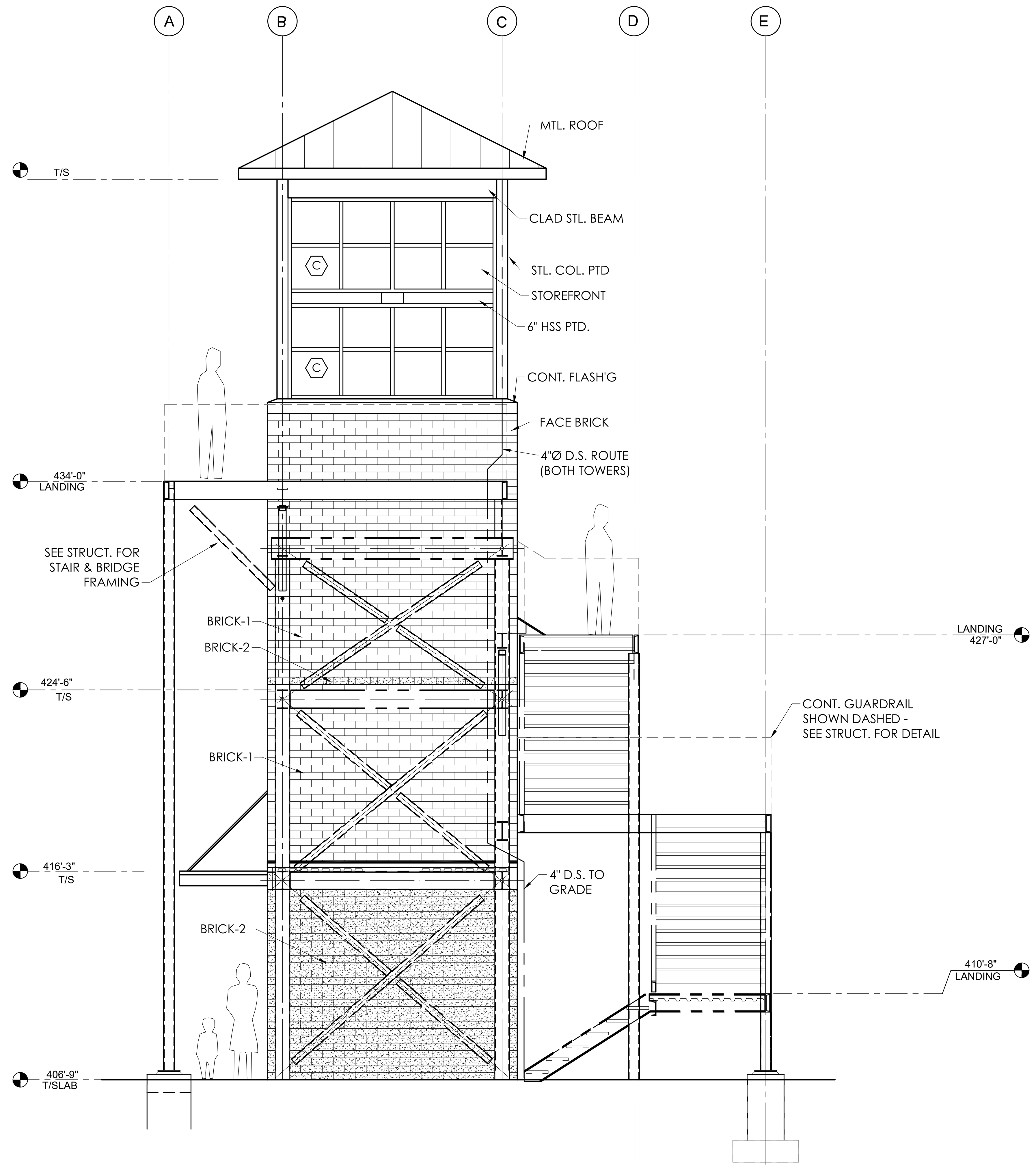
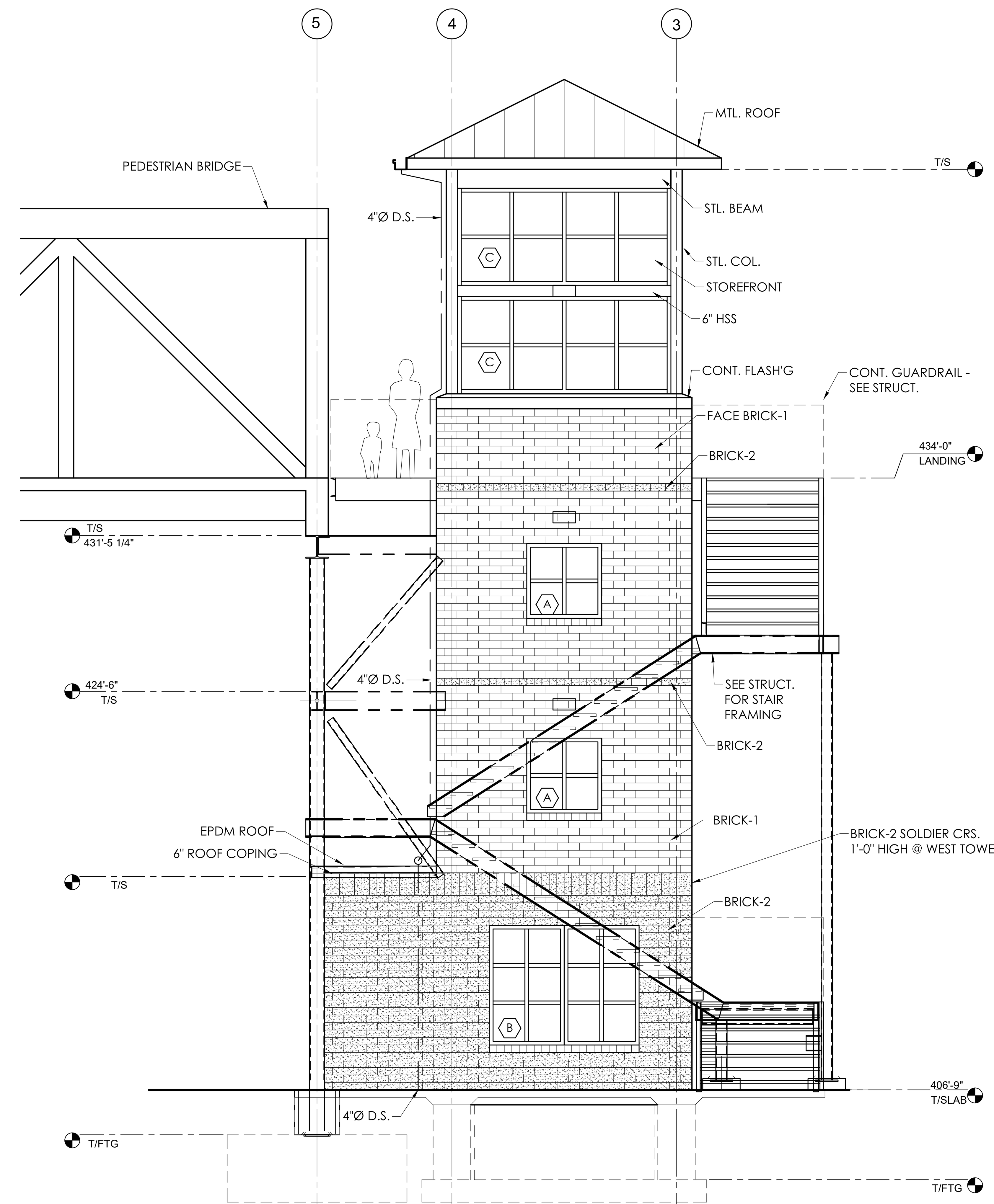
SCALE:	H: V: NOTED
SET REV. NO.	3
DRAWING NUMBER:	A4.1
DATE:	05/27/22



EAST ELEVATION

SCALE: 1/4" = 1'-0"



NORTH ELEVATION

SCALE: 1/4" = 1'-0"

WEST TOWER

COMMONWEALTH OF VIRGINIA
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Lic. No. 8814
05-27-22
ARCHITECT

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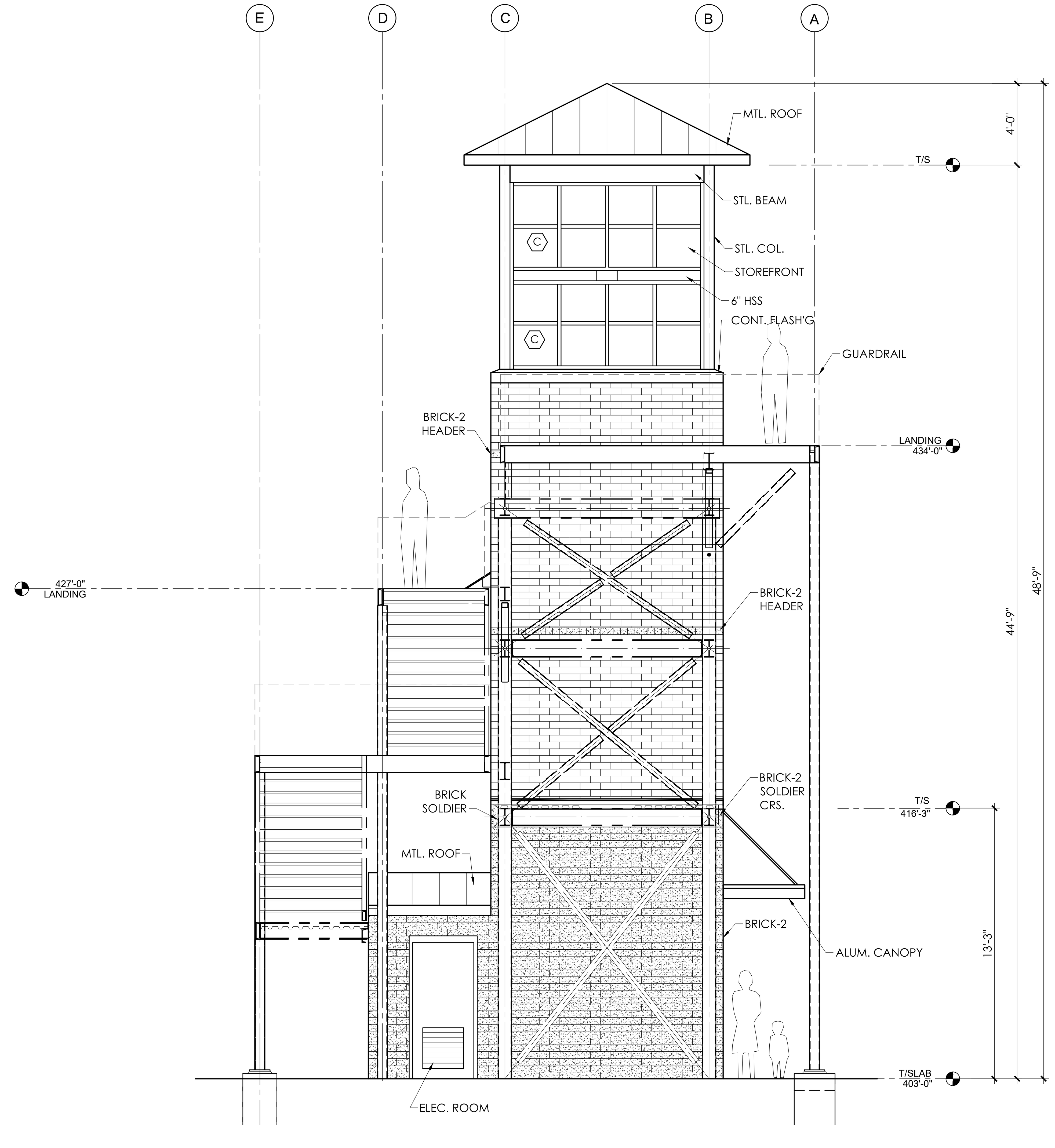
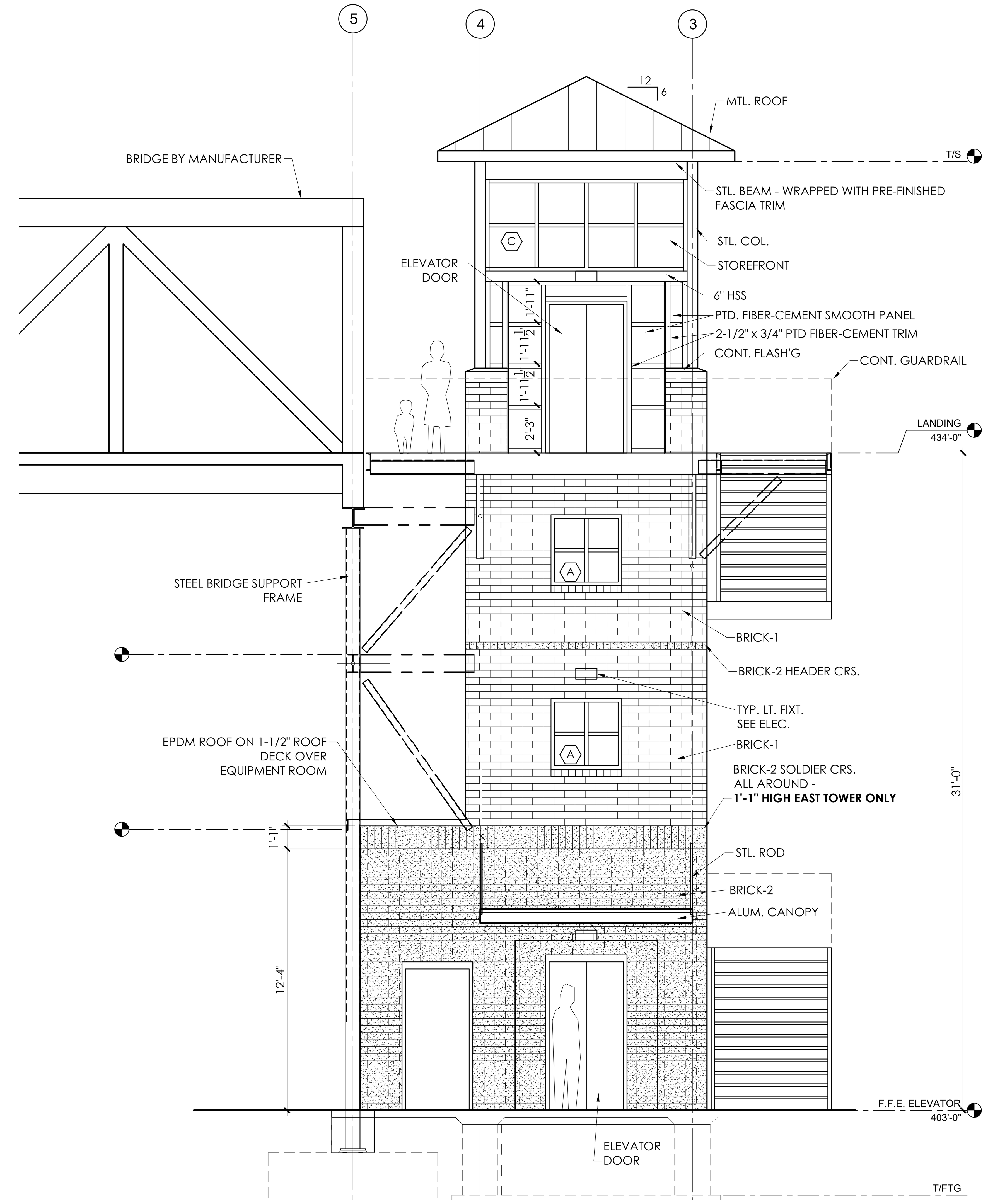
DATE:	05/27/22



WEST ELEVATION

SCALE: 1/4" = 1'-0"

VIEW FROM COMMERCE & WEST DAVIS STREETS



SOUTH ELEVATION

SCALE: 1/4" = 1'-0"

EAST TOWER

COMMONWEALTH OF VIRGINIA
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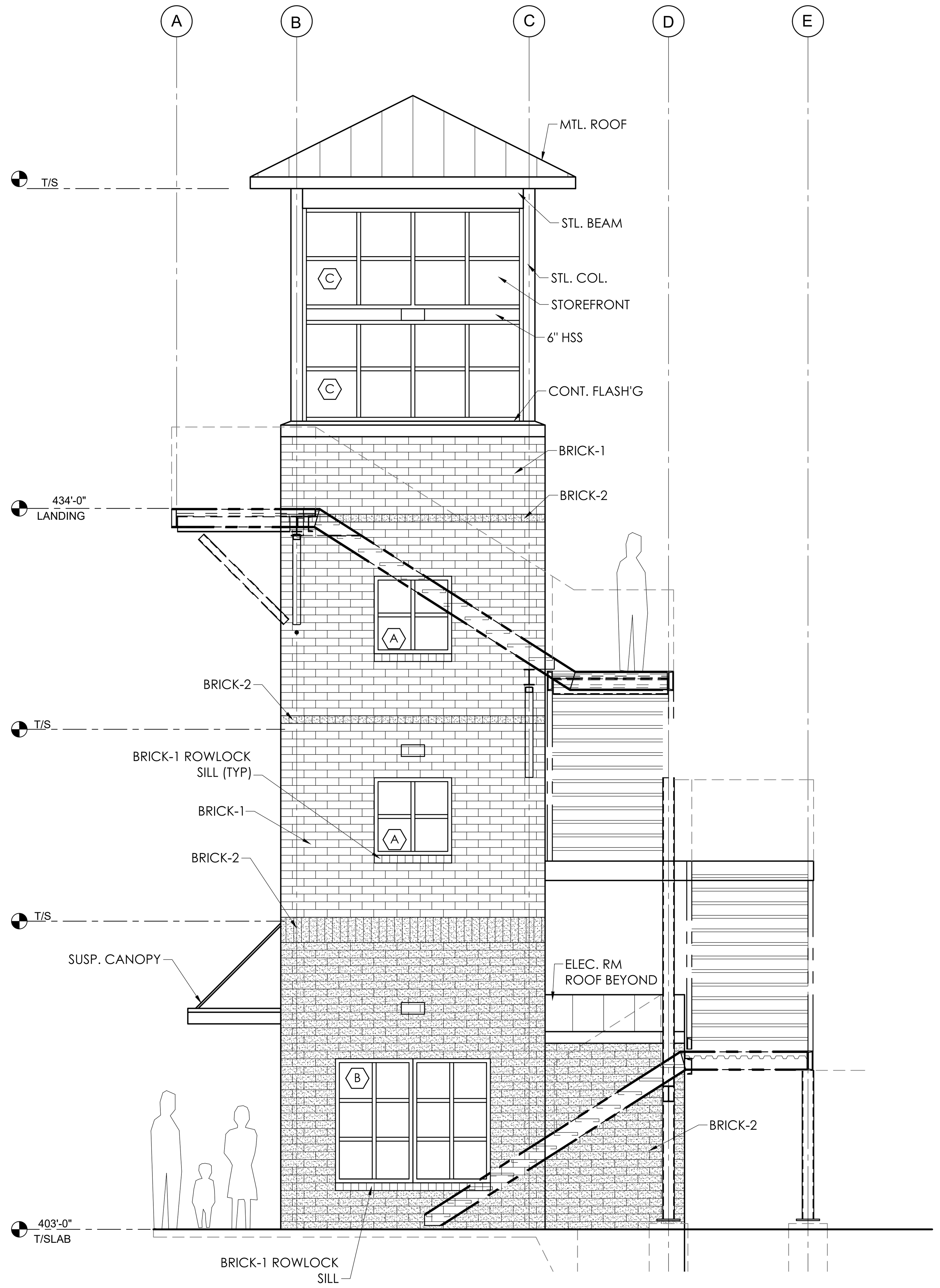
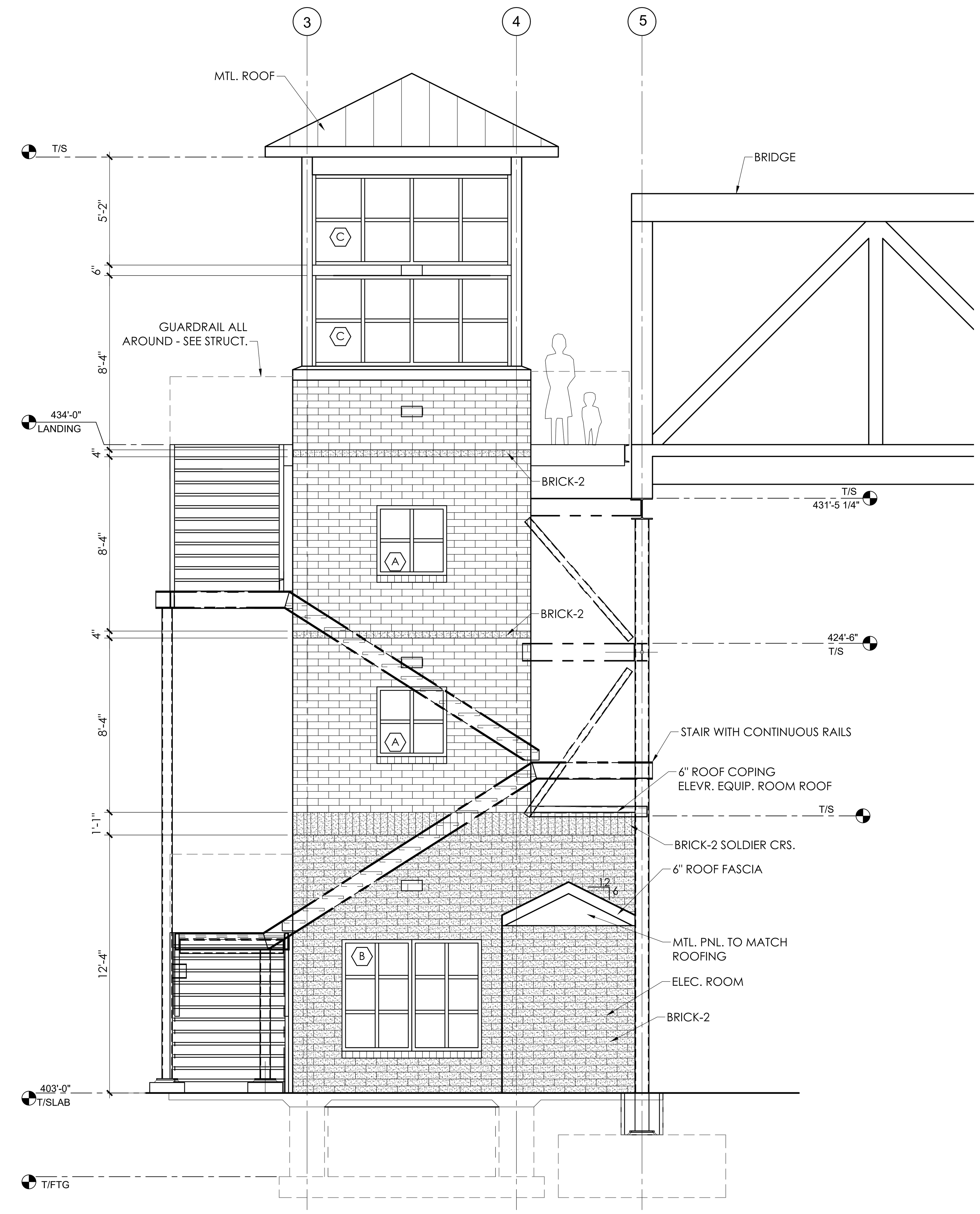
DRAWN BY:				
DIHR BY: HFW	TITLE: EXTERIOR ELEVATIONS			DRAWING NUMBER: A4.2
WWA NUMBER: 220047.01	FILE NAME: Unsaved Drawing1.dwg	DISCIPLINE:	SCALE: H: V: NOTED	DATE: 05/27/22



EAST ELEVATION

SCALE: 1/4" = 1'-0"



NORTH ELEVATION

SCALE: 1/4" = 1'-0"

EAST TOWER

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WWA NUMBER: 220047.01

PROJECT: CULPEPER STATION
RAILROAD PEDESTRIAN BRIDGE PROJECT
TOWN OF CULPEPER, VIRGINIA

TITLE: EXTERIOR ELEVATIONS

FILE NAME: Unsaved Drawing1.dwg
DISCIPLINE:
SCALE: H: V: NOTED

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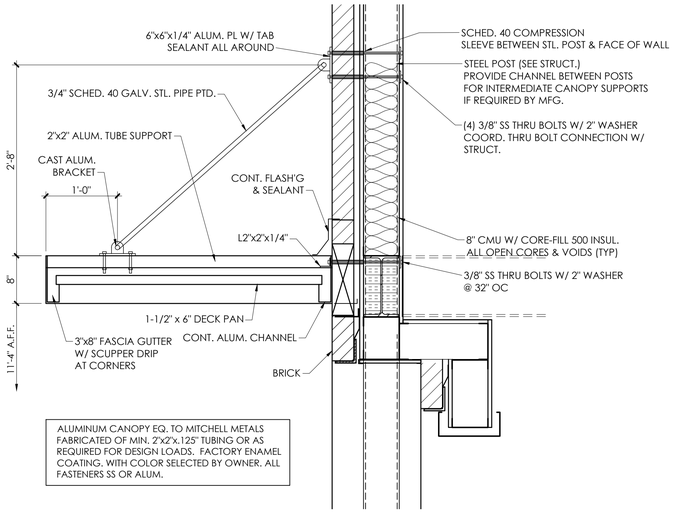
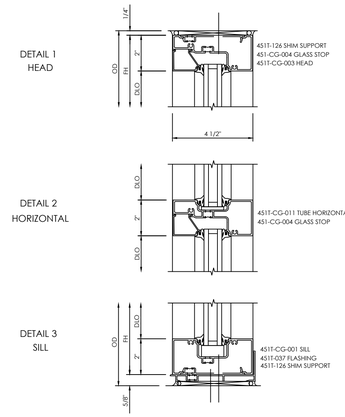
DATE: 05/27/22



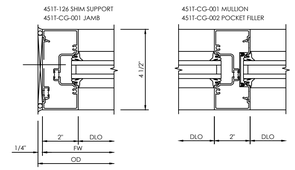
CANOPY DETAIL

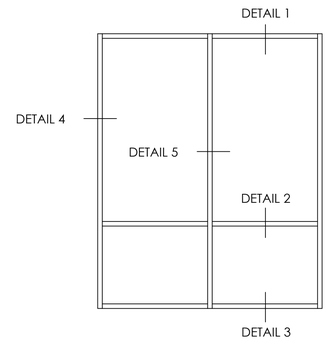
SCALE: 1" = 1'-0"



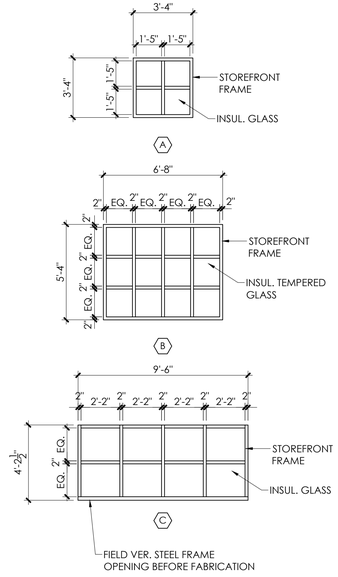
TRIFAB VG 451T (CENTER)
SCREW SPLINE ASSEMBLY
OUTSIDE GLAZED
(1" INFILL)

DETAIL SCALE: 3" = 1'-0"





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



WINDOW TYPES

SCALE: 1/4" = 1'-0"

ALUMINUM STOREFRONT

1. KAWNEER TRIFAB VG 451T SYSTEM OR EQUAL AS INDICATED. ALL FRAMING MEMBERS TO BE THERMALLY BROKEN.
2. FRAME COLOR TO BE AS SELECTED BY THE OWNER AND APPROVED BY THE ARB
3. GLASS WINDOWS: 1" INSULATED, LOW E ARGON FILLED, LIGHT GREY TINT, TEMPERED WHERE REQUIRED BY CODE (SUBMIT GLASS TINT SAMPLE FOR REVIEW). MAX. U VLAUE = 0.28, MAX SHGC = 0.30 .

COMMONWEALTH OF VIRGINIA
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05-27-22
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Lynchburg, VA 24502
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PROJECT: CULPEPER STATION
RAILROAD PEDESTRIAN BRIDGE PROJECT
TOWN OF CULPEPER, VIRGINIA

TITLE: WINDOW TYPES

FILE NAME: Unsaved Drawing1.dwg
DISCIPLINE:
SCALE: H: NOTED V:

SET REV. NO. 3
DRAWING NUMBER: A4.3
DATE: 05/27/22

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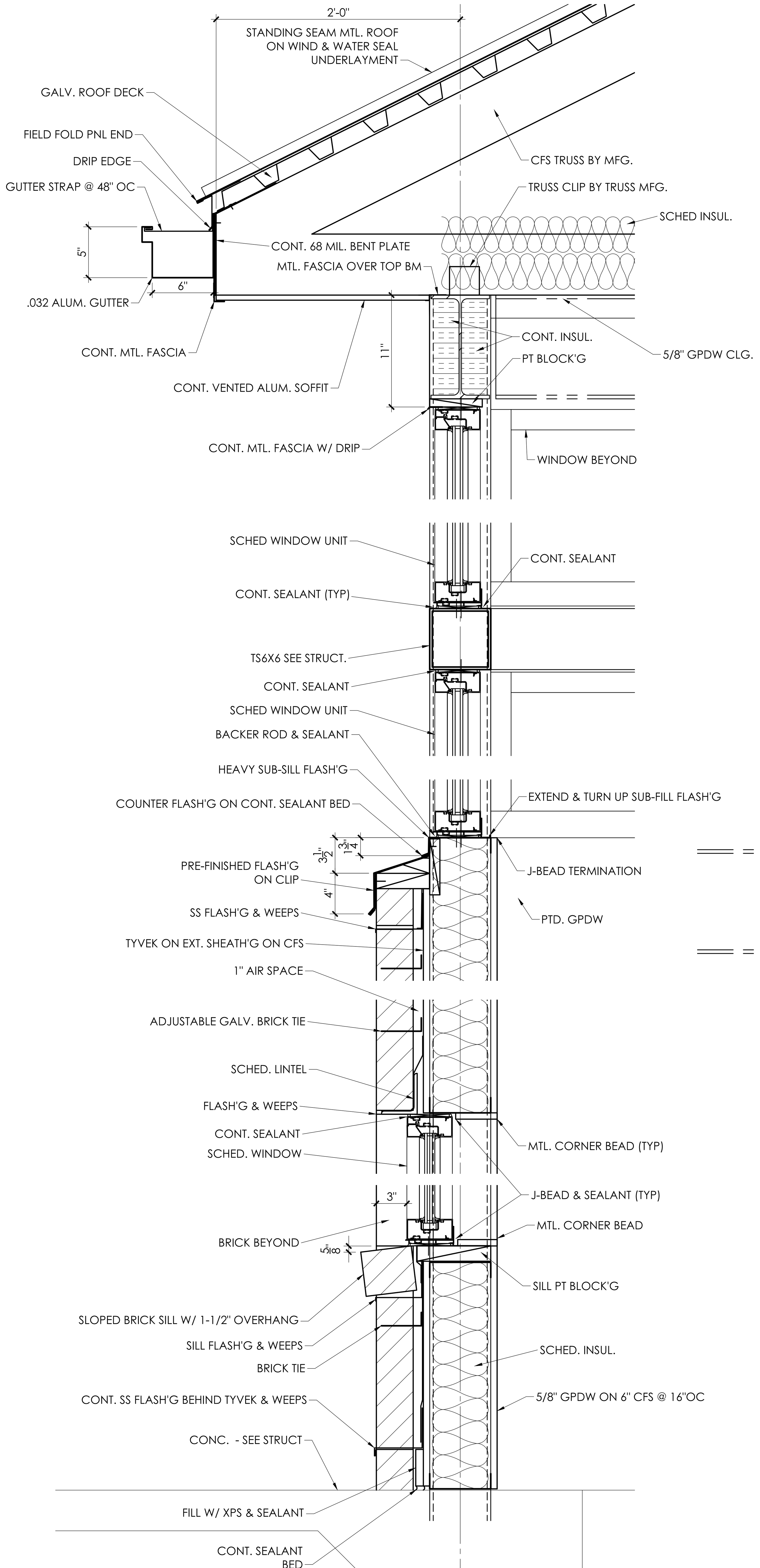
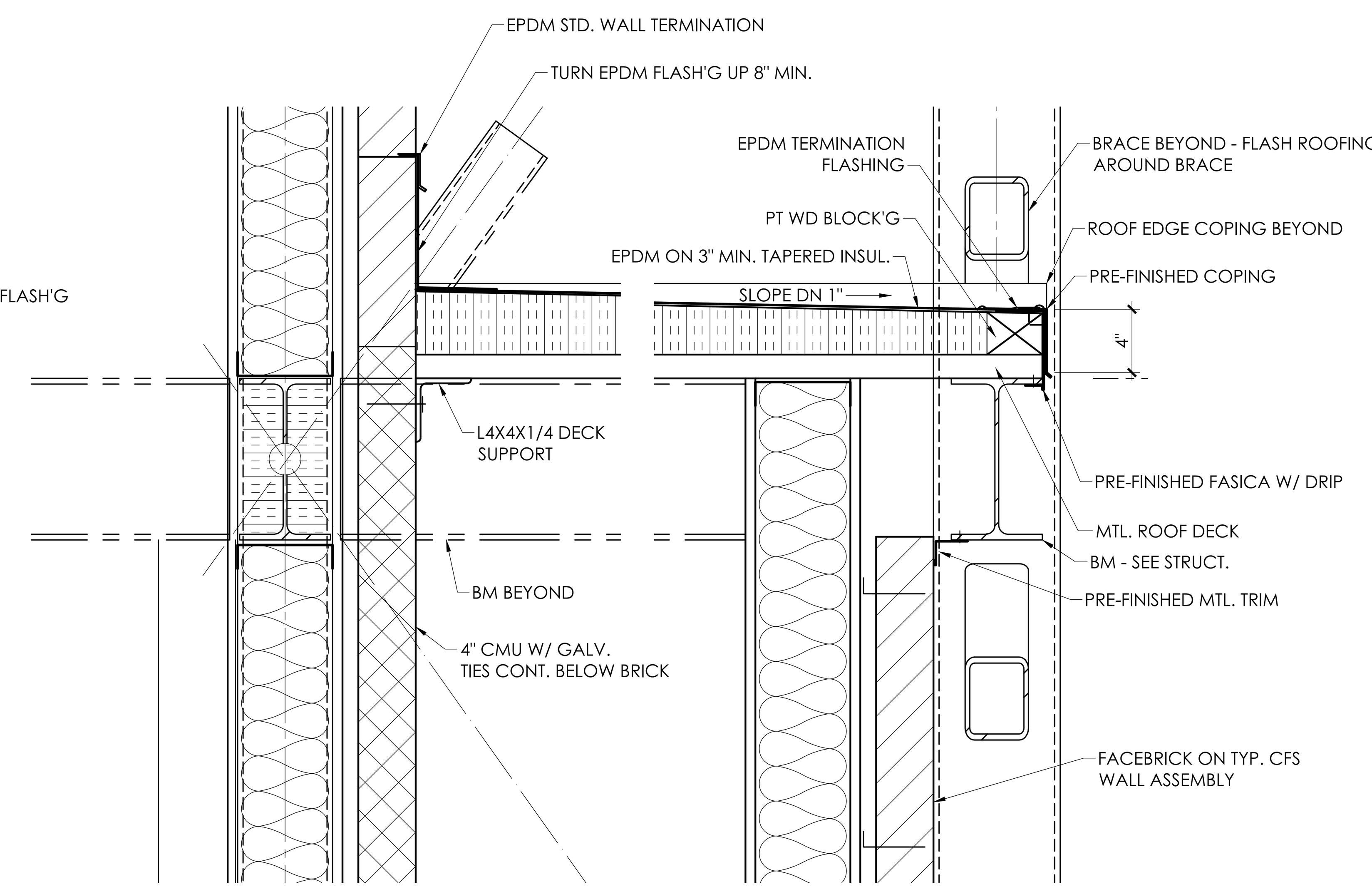
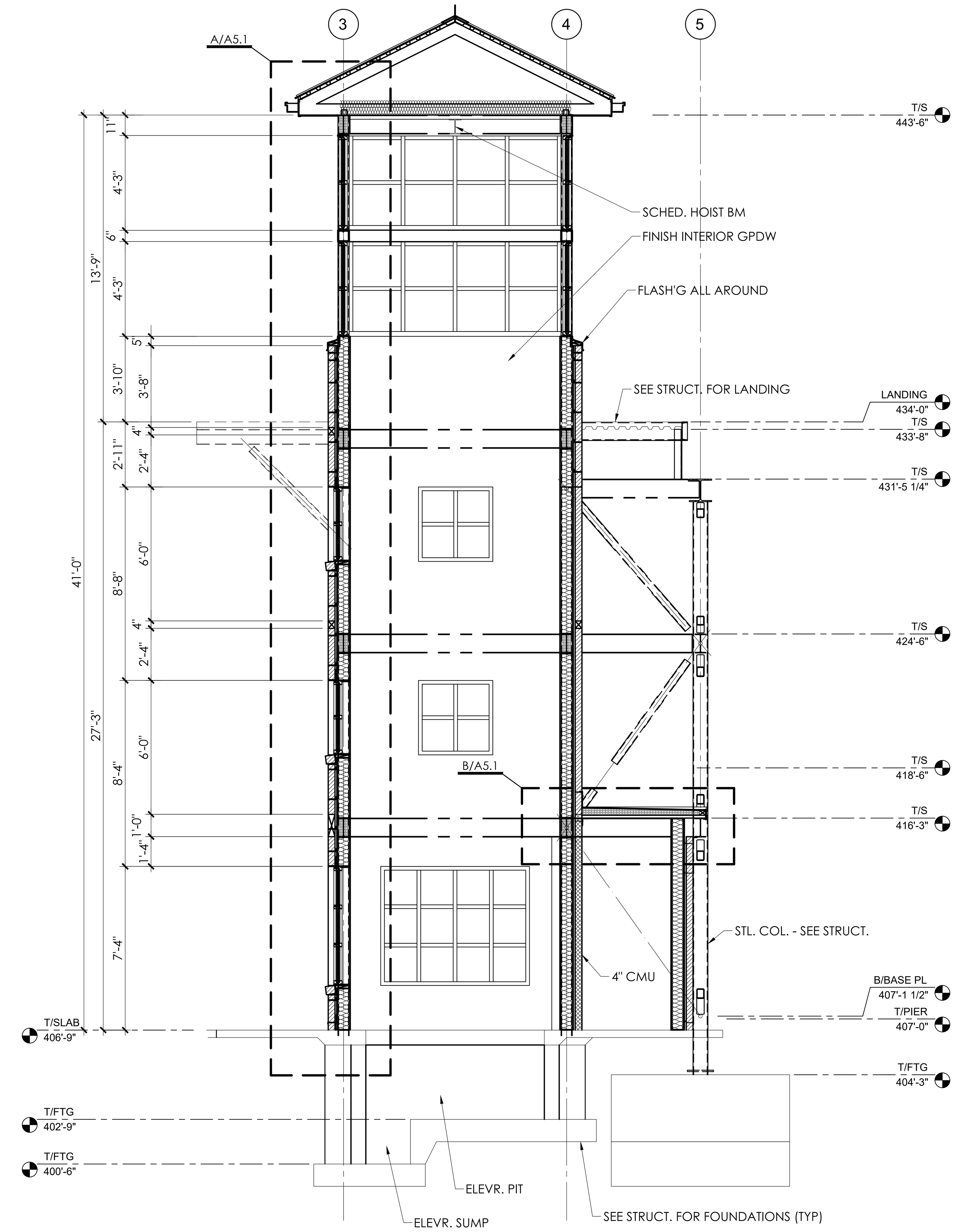


A WEST TOWER WALL SECTION
SCALE: 1-1/2" = 1'-0"



B SECTION @ EQUIP. ROOM
SCALE: 1-1/2" = 1'-0"



01 WEST TOWER SECTION
SCALE: 1/4" = 1'-0"

EAST TOWER SIMILAR OPP. HAND - SEE STRUCTURAL FOR FINISHED FLOOR AND BEAM ELEVATIONS THAT VARY FROM THE WEST TOWER ELEVATIONS.

WEST TOWER

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TITLE:	WEST TOWER SECTIONS
FILE NAME:	Unsaved Drawing1.dwg
DISCIPLINE:	
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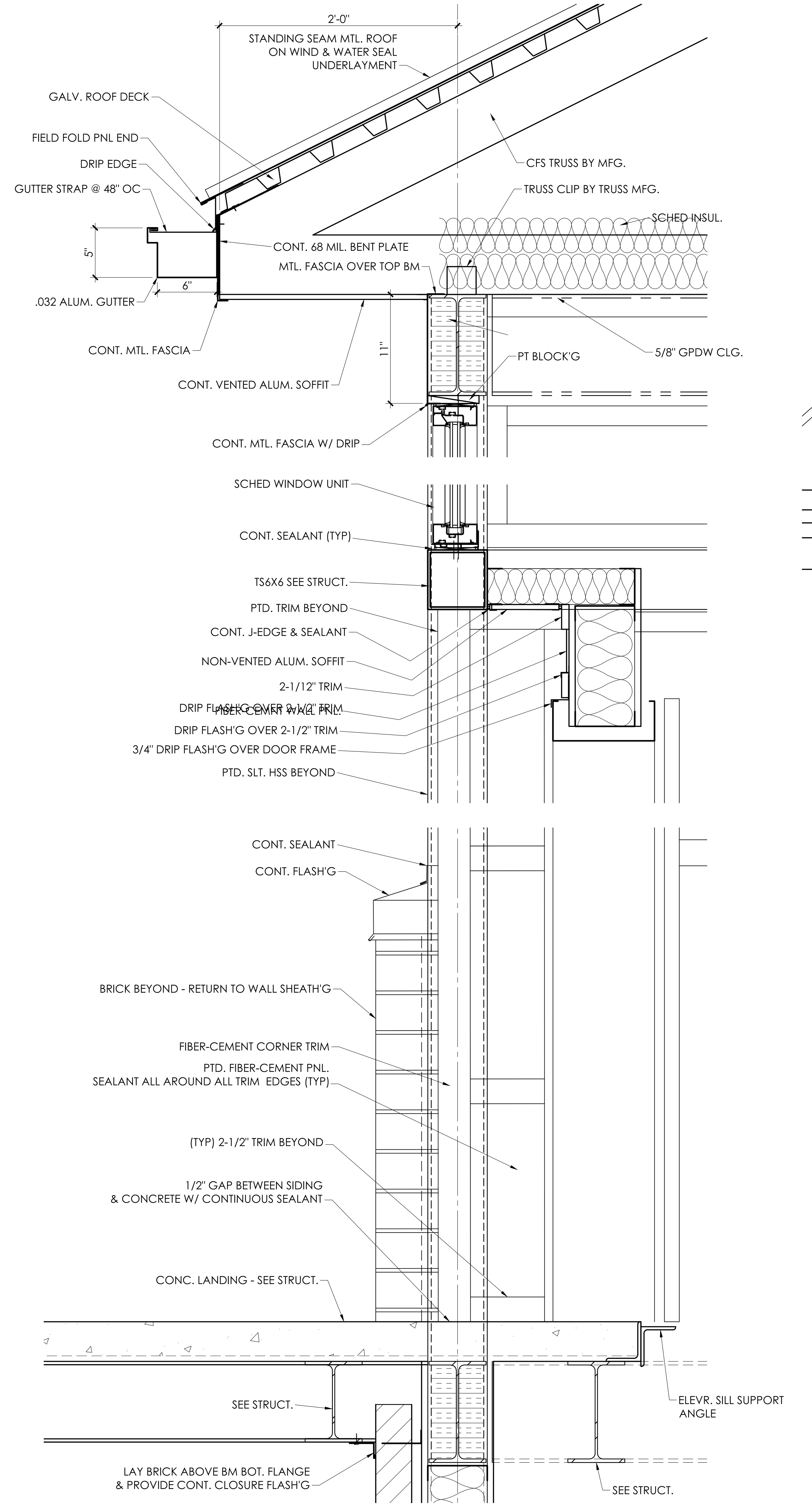
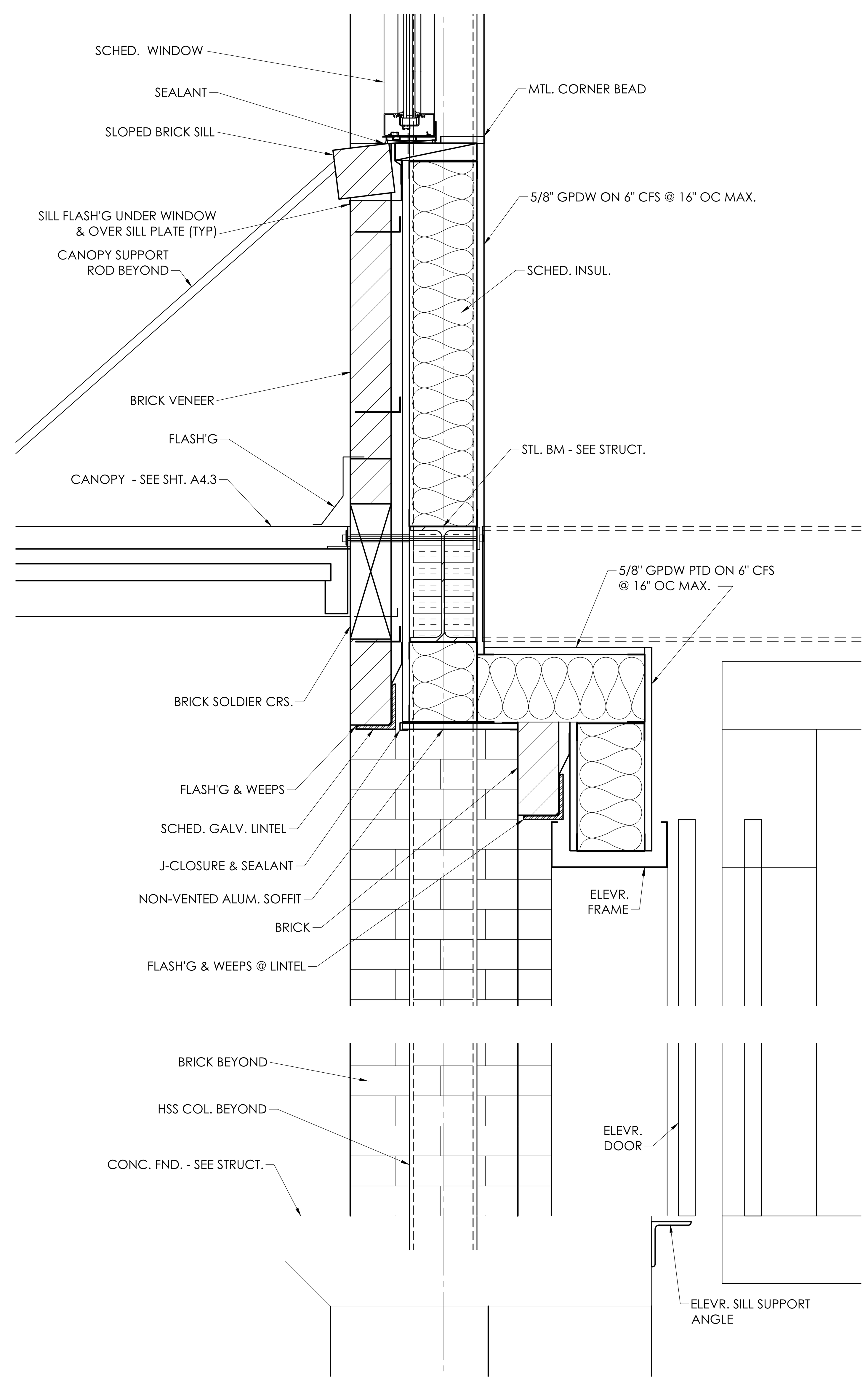
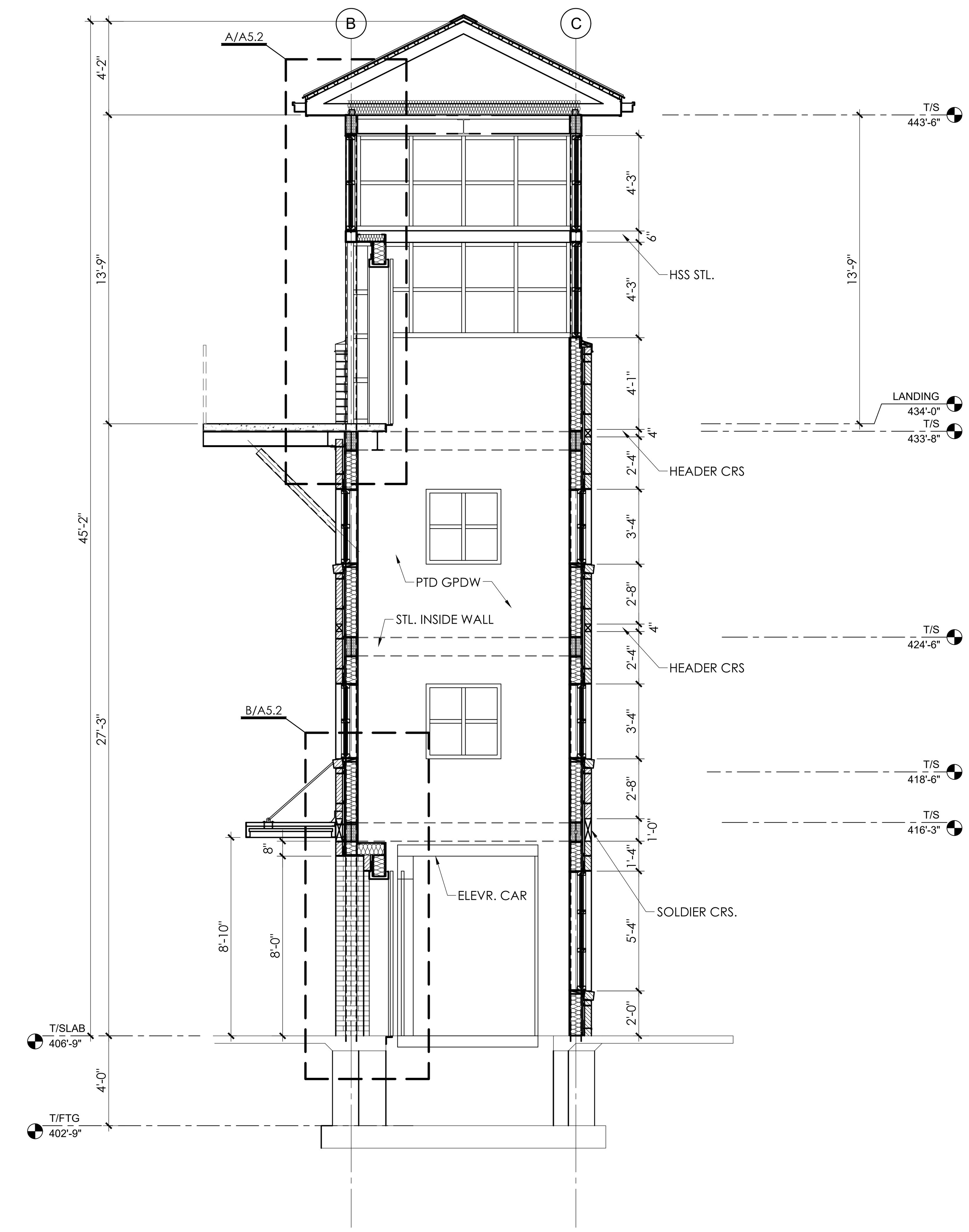
SET REV. NO.	3
DRAWING NUMBER:	A5.1
DATE:	05/27/22



A WEST TOWER SECTION
SCALE: 1-1/2" = 1'-0"



B WEST TOWER SECTION
SCALE: 1-1/2" = 1'-0"



01 WEST TOWER SECTION
SCALE: 1/4" = 1'-0"

EAST TOWER SIMILAR OPP. HAND - SEE STRUCTURAL FOR FINISHED FLOOR AND BEAM ELEVATIONS THAT VARY FROM THE WEST TOWER ELEVATIONS.

WEST TOWER

COMMONWEALTH OF VIRGINIA
DEX A. SANDERS
Lic. No. 8814
05-27-22
ARCHITECT

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22				
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22				
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

SANDERS ARCHITECTURE PC
16125 RACCOON FORD RD
CULPEPER, VIRGINIA 22701
(v)540-829-2590

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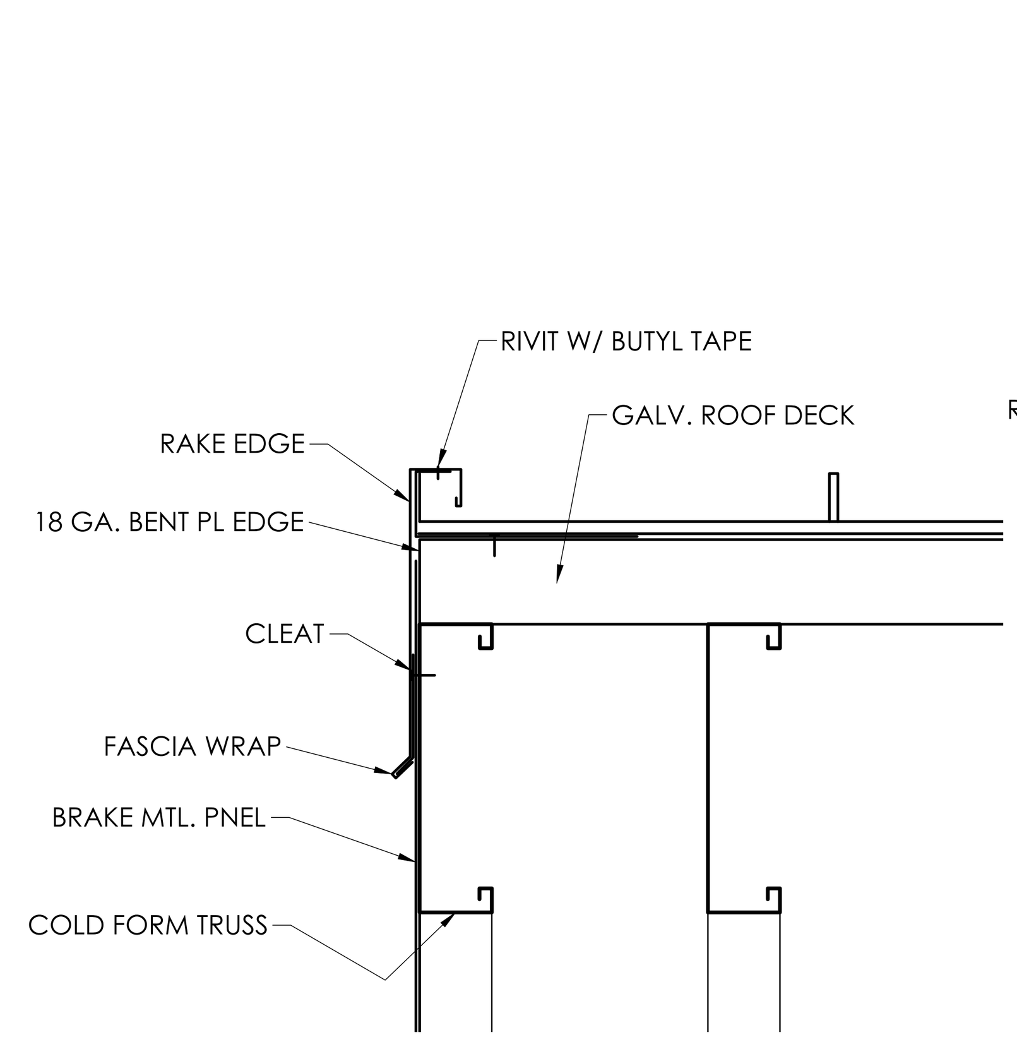
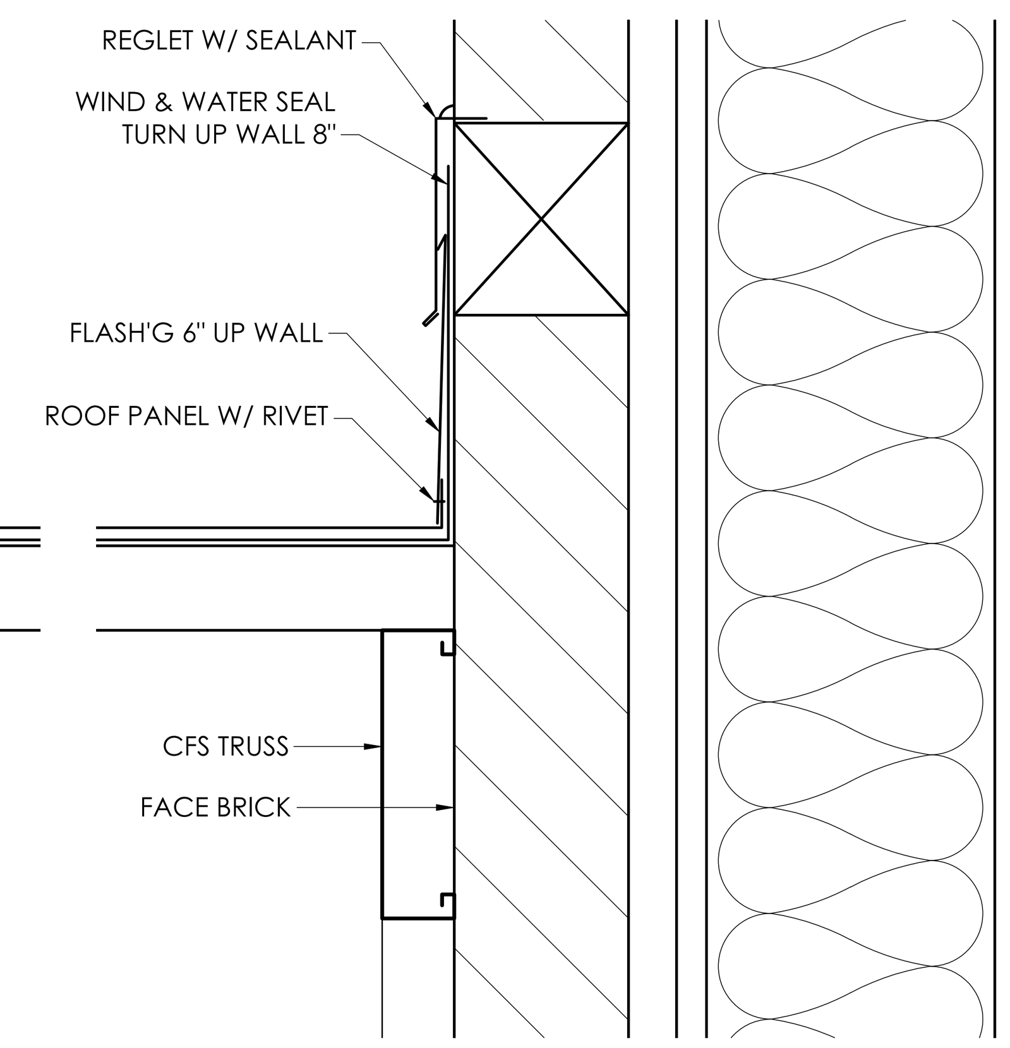
DESIGNED BY:	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE PROJECT TOWN OF CULPEPER, VIRGINIA
DRAWN BY:	
DIHR BY: HFW	TITLE: WEST TOWER SECTIONS
WWA NUMBER: 220047.01	FILE NAME: Unsaved Drawing1.dwg — DISCIPLINE: — SCALE: NOTED
SET REV. NO.: 3	DRAWING NUMBER: A5.2
DATE: 05/27/22	



E DETAIL
SCALE: 3" = 1'-0"



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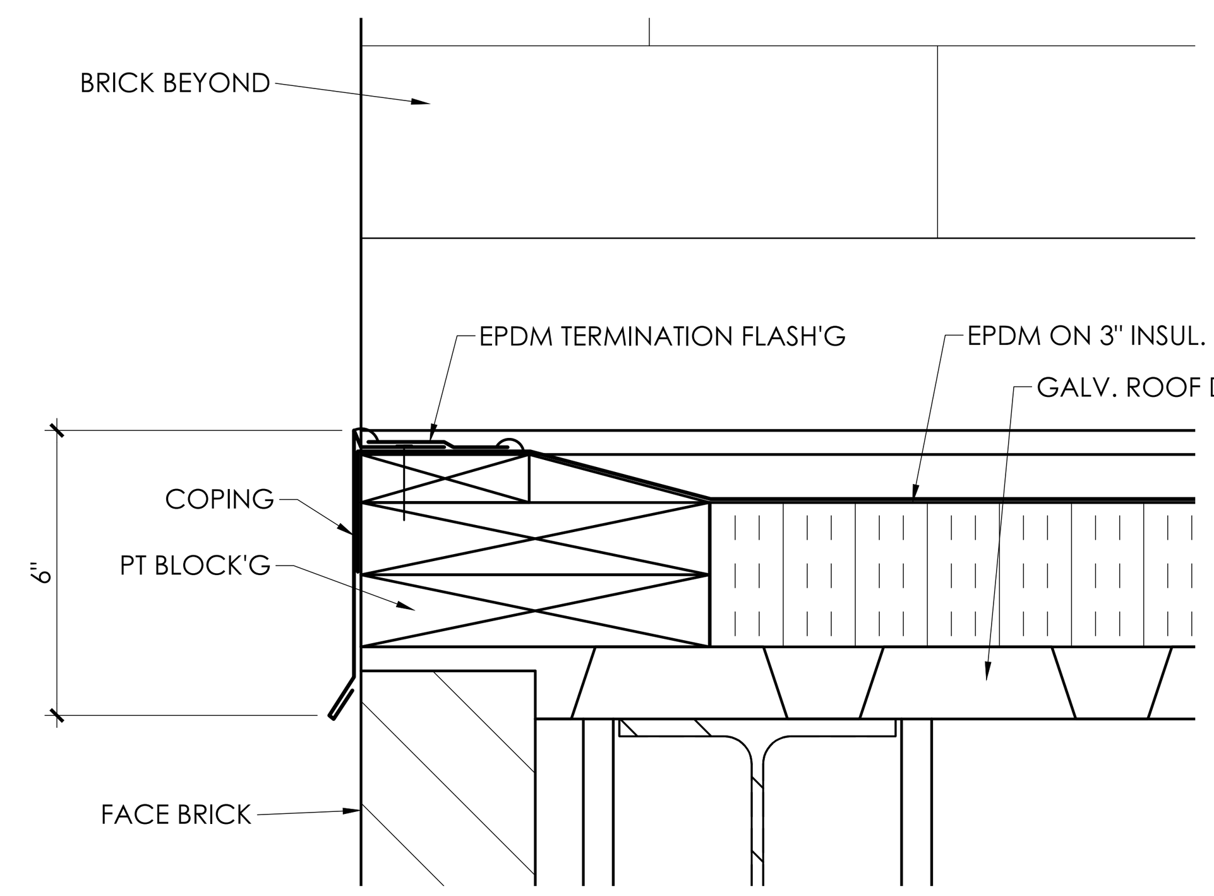

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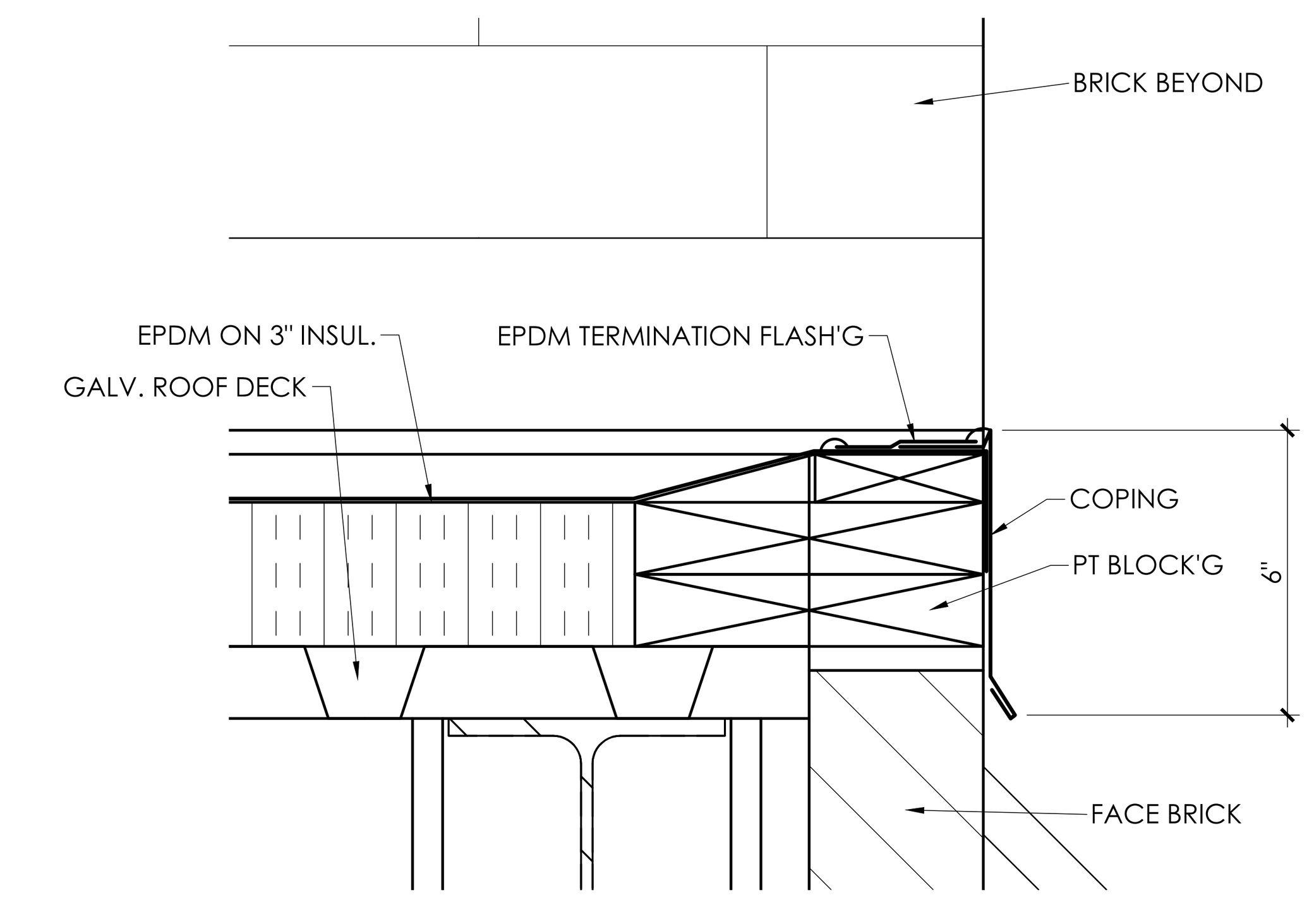
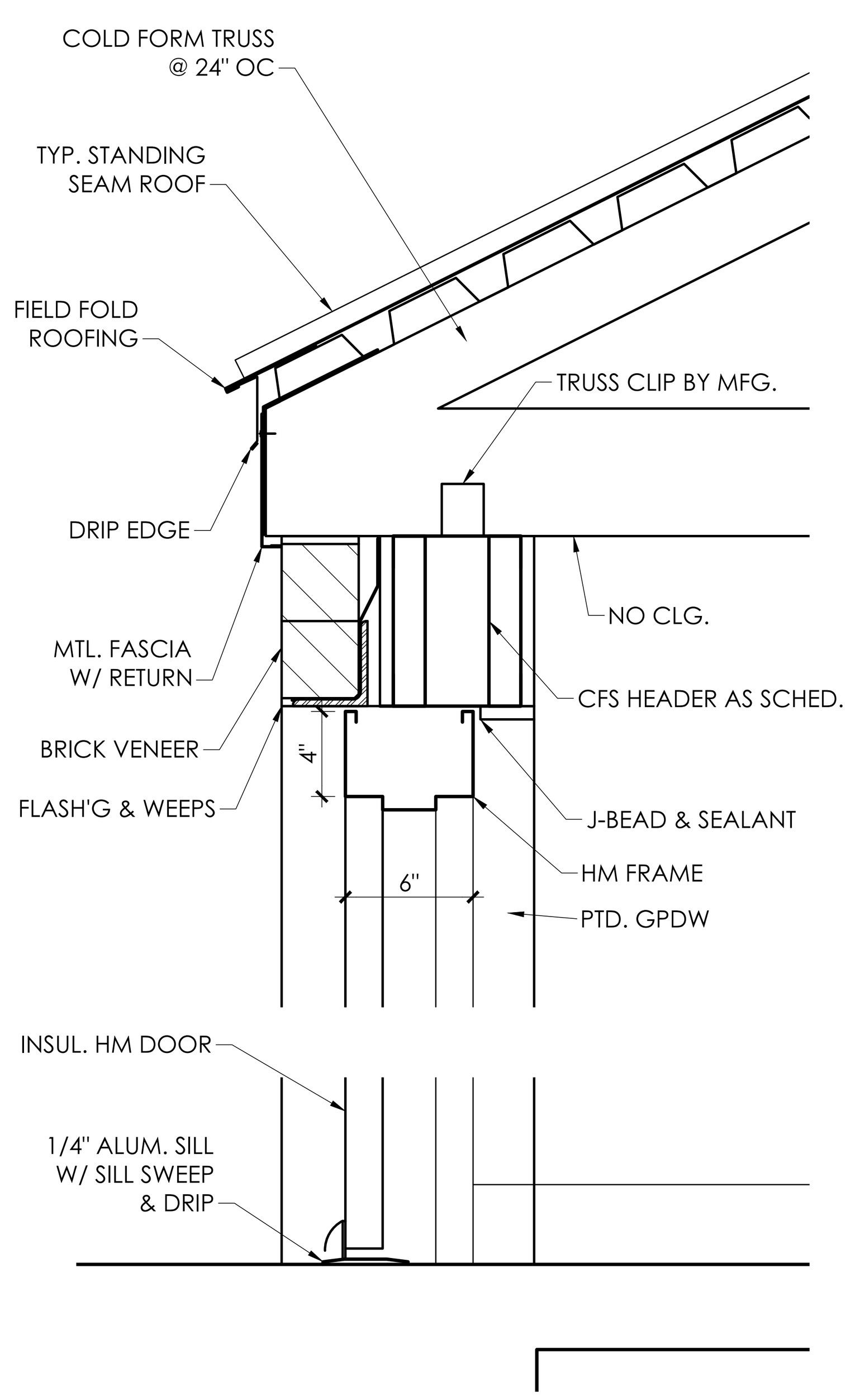
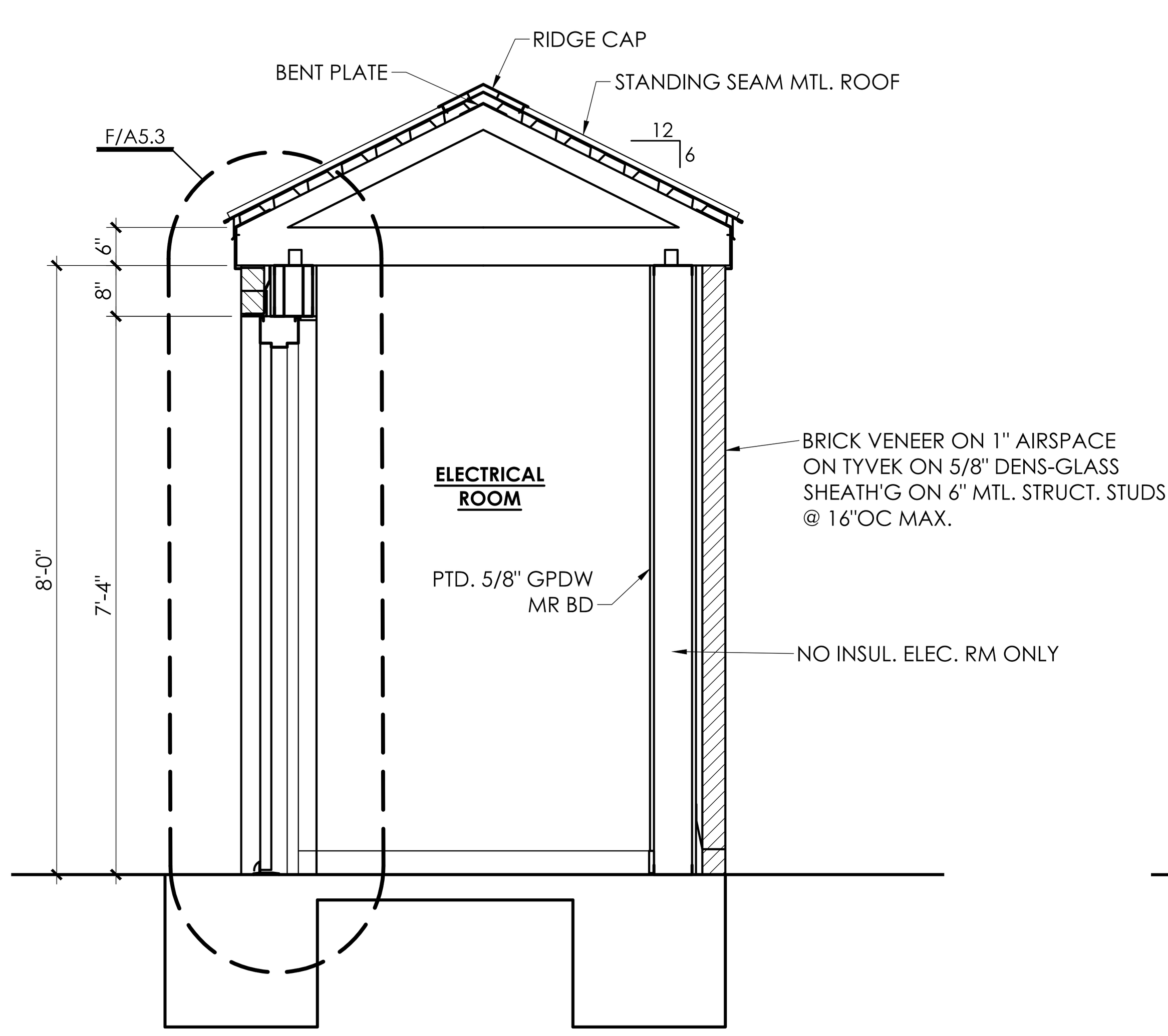
SCALE: 3" = 1'-0"



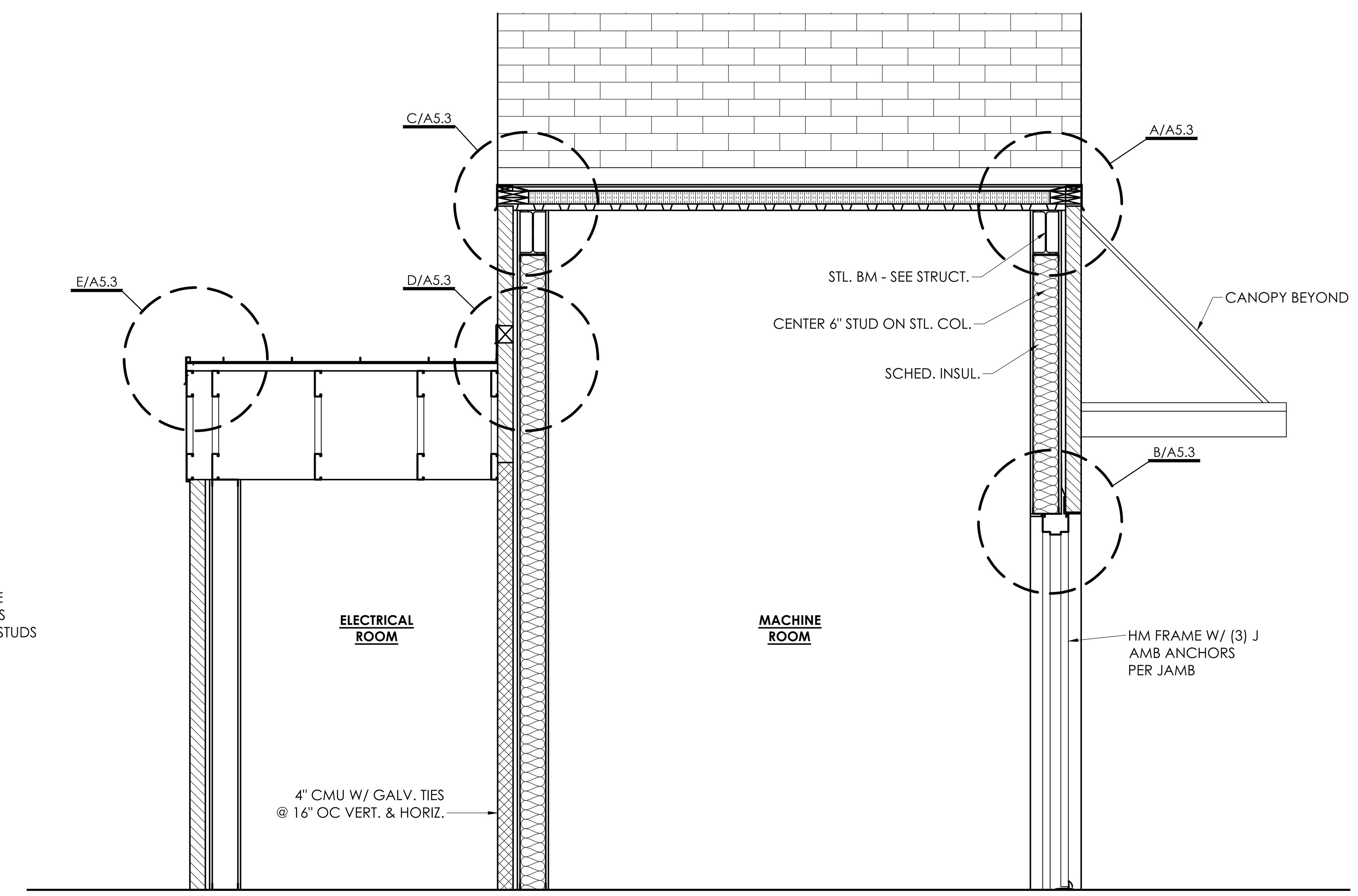
A DETAIL
SCALE: 3" = 1'-0"



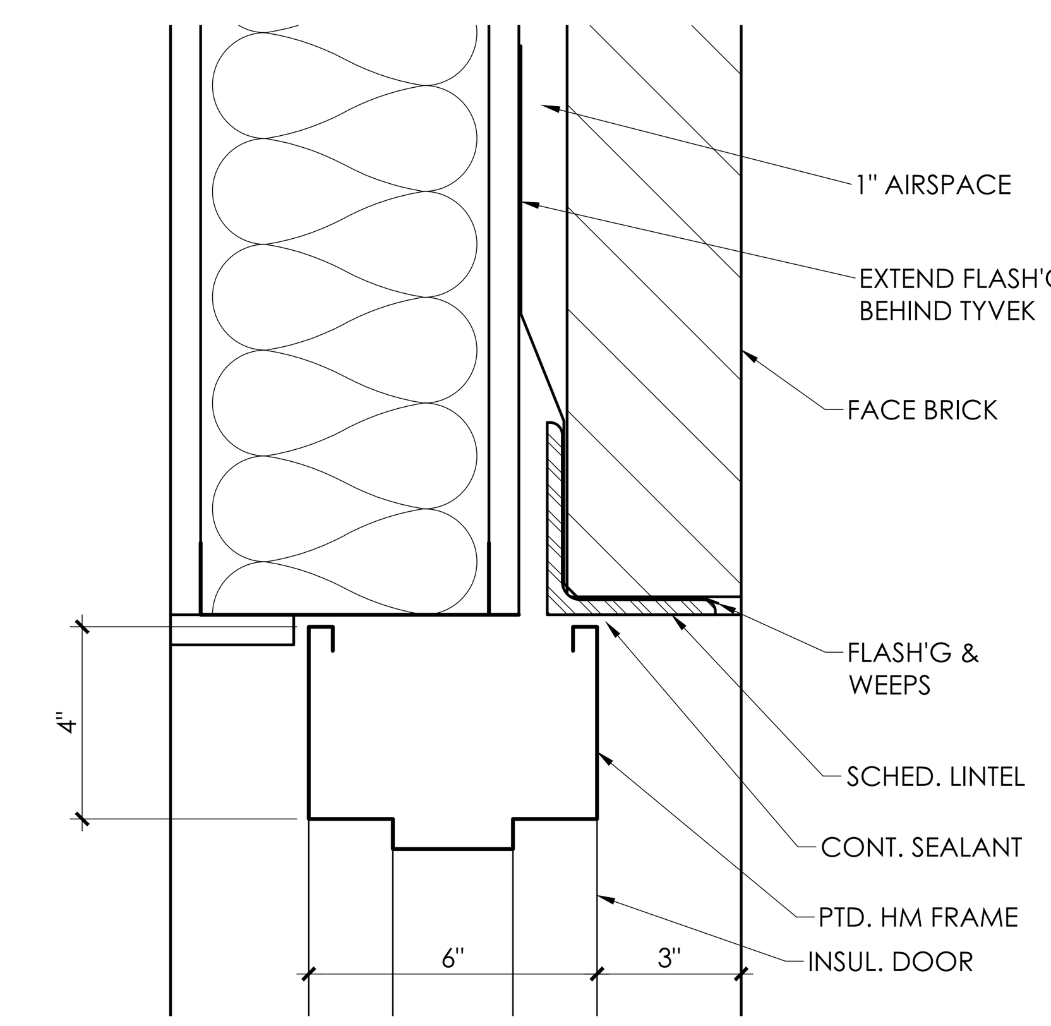
F DETAIL
SCALE: 1-1/2" = 1'-0"



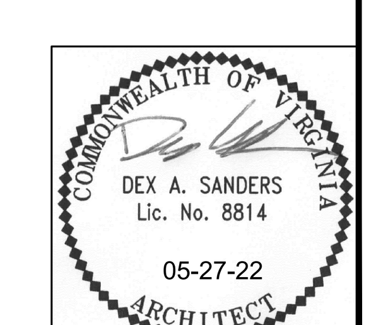
02 EAST TOWER SECTION
SCALE: 1/2" = 1'-0"



01 EAST TOWER ELEC. RM SECTION
SCALE: 1/2" = 1'-0"



B DETAIL
SCALE: 3" = 1'-0"



NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

NO.	SHEET REVISION	BY	DATE

SANDERS ARCHITECTURE PC
16125 RACCOON FORD RD
CULPEPER, VIRGINIA 22701
(v)540-829-2590

WW ASSOCIATES
Engineers Surveyors Planners
PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
www.wwassociates.net

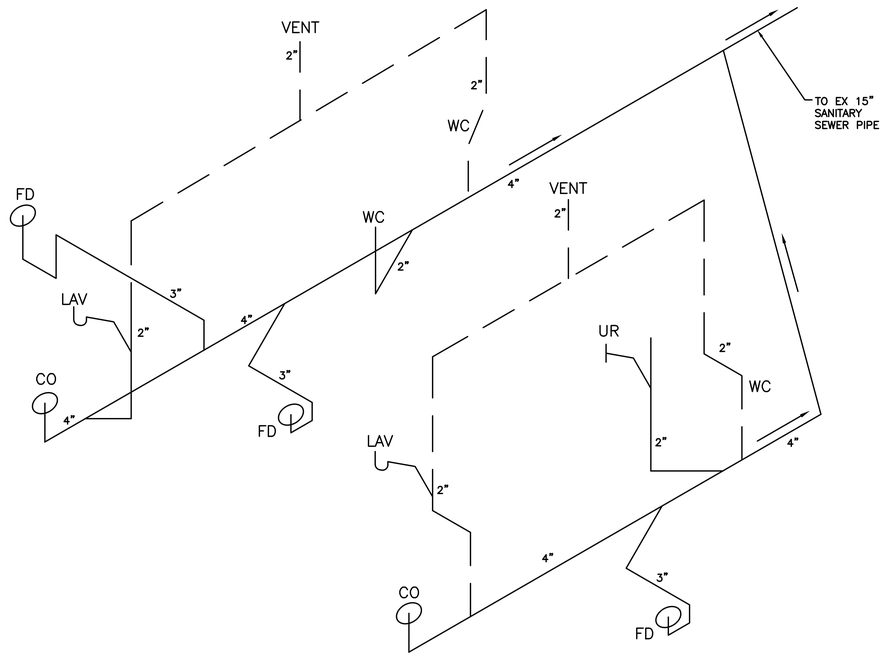
DESIGNED BY:
DRAWN BY:
DIHR BY: HFW
WWA NUMBER: 220047.01

PROJECT:
CULPEPER STATION
RAILROAD PEDESTRIAN BRIDGE PROJECT
TOWN OF CULPEPER, VIRGINIA

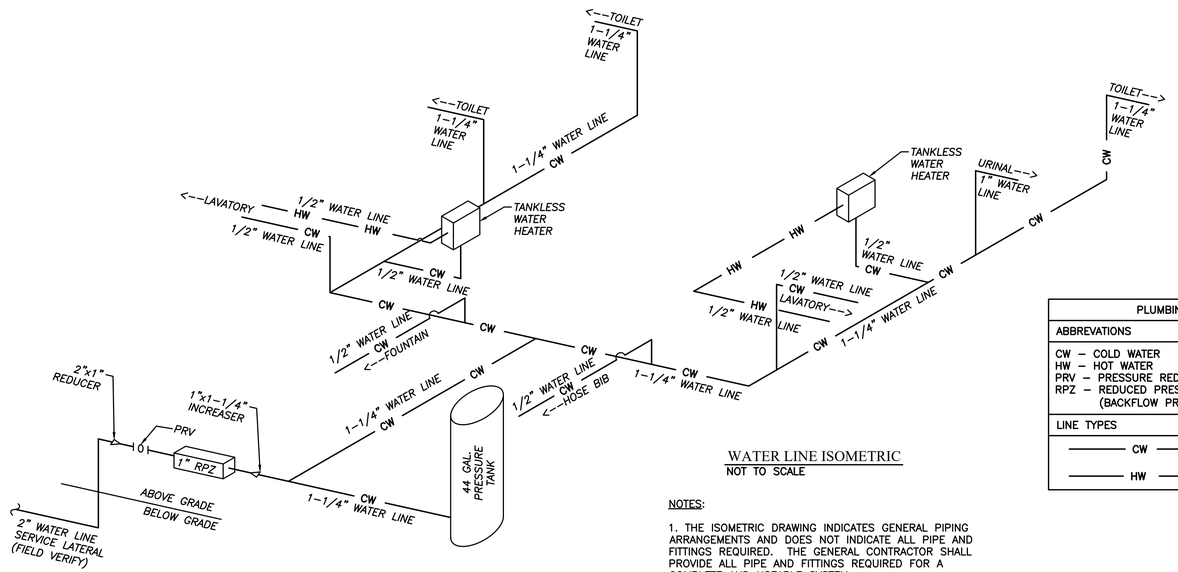
TITLE: EAST TOWER SECTIONS

FILE NAME: Unsaved Drawing1.dwg
DISCIPLINE:
SCALE: H: V: NOTED

SET REV. NO. 3
DRAWING NUMBER: A5.3
DATE: 05/27/22



SANITARY WASTE & VENT ISOMETRIC
SCALE: N.T.S.



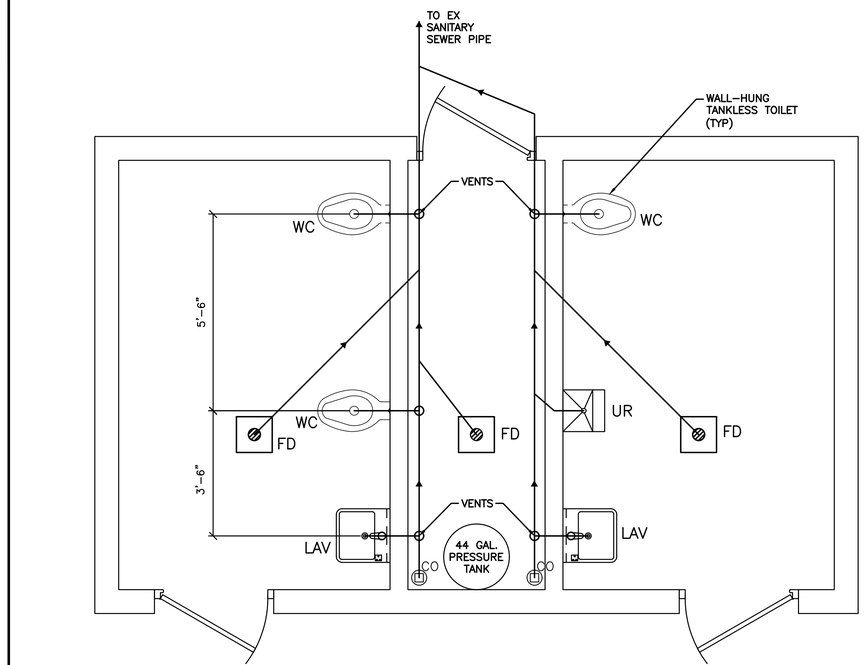
WATER LINE ISOMETRIC
NOT TO SCALE

PLUMBING LEGEND	
ABBREVATIONS	
CW – COLD WATER HW – HOT WATER PRV – PRESSURE REDUCING VALVE RPZ – REDUCED PRESSURE ZONE (BACKFLOW PREVENTER)	
LINE TYPES	
CW	COLD WATER PIPING
HW	HOT WATER PIPING

NOTES:

1. THE ISOMETRIC DRAWING INDICATES GENERAL PIPING ARRANGEMENTS AND DOES NOT INDICATE ALL PIPE AND FITTINGS REQUIRED. THE GENERAL CONTRACTOR SHALL PROVIDE ALL PIPE AND FITTINGS REQUIRED FOR A COMPLETE AND USEABLE SYSTEM.

2. WATER PIPING SHALL BE PVC SCHEDULE 40



NEW COMFORT STATION BUILDING
SANITARY WASTE & VENT PLAN
SCALE: 1/2"=1'-0"

IF THIS DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED

0 1' 2' 4'

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

NO.	SHEET REVISION	BY	DATE
1	ADDRESSED SITE PLAN COMMENTS	SAR	8/12/22
2	ADDRESSED SITE PLAN COMMENTS	HFW	9/13/22
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE, III
LICENSE NO. 012571
8-12-22
PROFESSIONAL ENGINEER

ENGINEERS SURVEYORS PLANNERS
ASSOCIATES
PO Box 4119 Lynchburg, VA 24502 Phone: 434.316.6080
968 Olympia Drive, Suite 1 Charlottesville, VA 22911 Phone: 434.984.2700
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DESIGNED BY: SAR	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: KTM	TITLE: NEW RESTROOM FACILITY PLUMBING PLAN AND RISER DIAGRAM		DRAWING NUMBER: P-1
DIHR BY: HFW	WWA NUMBER: 220047.01	FILE NAME: 004701C_PID-1.dwg	DISCIPLINE: CIVIL
		SCALE: H: AS SHOWN V: N/A	DATE: 5/27/22

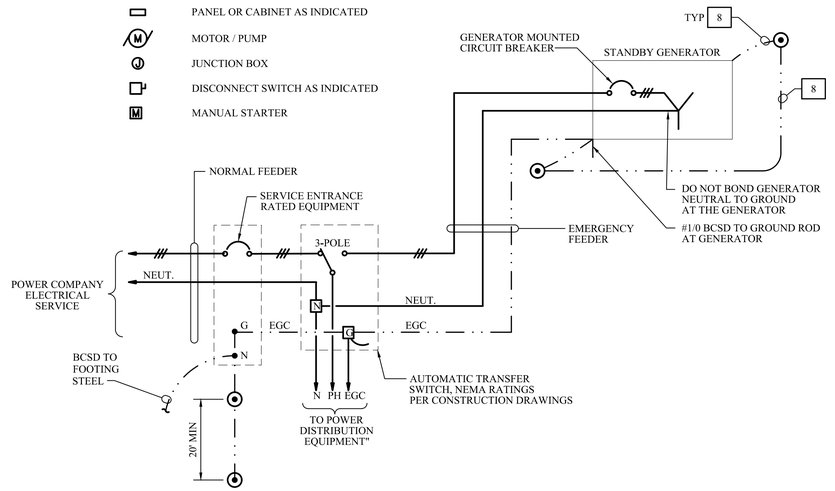
C:\Work From Home\Projects\AutoCad (M)\220047 Town of Culpeper - Pedestrian Bridge Project\220047.01 Bridge Restroom Facilty\004701C_PID-1.dwg

ABBREVIATIONS

A,AMP	AMPERES
AF	AMPERE FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPERES INTERRUPTING CAPACITY
APPROX	APPROXIMATELY
AS	AMPERE SENSOR
AT	AMPERE TRIP
BCSD	BARE COPPER SOFT DRAWN
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
CONN	CONNECTED
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
D	DEEP
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EGC	EQUIPMENT GROUNDING CONDUCTOR
EL,ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
EQPT	EQUIPMENT
EXIST	EXISTING
FDR	FEEDER
FLA	FULL LOAD AMPERES
FRACT	FRACTIONAL
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
H	HIGH
H-O-A	HAND-OFF-AUTO
HP	HORSEPOWER
INTER	INTERMEDIATE
kcmil	THOUSANDS OF CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT AMPERE
KW	KILOWATTS
L	LONG
LBS	LOAD BREAK SWITCH
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MIN	MINIMUM
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEUT	NEUTRAL
OL	OVERLOAD
P	POLES
PH	PHASE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCPT(S)	RECEPTACLE(S)
RM	ROOM
RMS	ROOT MEAN SQUARE
RSC	RIGID STEEL CONDUIT
SER	SERVICE ENTRANCE RATED
SCH	SCHEDULE
SQ FT	SQUARE FEET
SPKR	SPEAKER
SUB	SUBSTATION
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TWSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT(S), WIRE, WIDE, (AS APPLICABLE)
WP	WEATHERPROOF
WPWC	WEATHERPROOF WHEN CONNECTED
XFMR	TRANSFORMER
ϕ, PH	PHASE
1/C	ONE CONDUCTOR
Δ	DELTA CONNECTED
Y	GROUNDED WYE CONNECTED

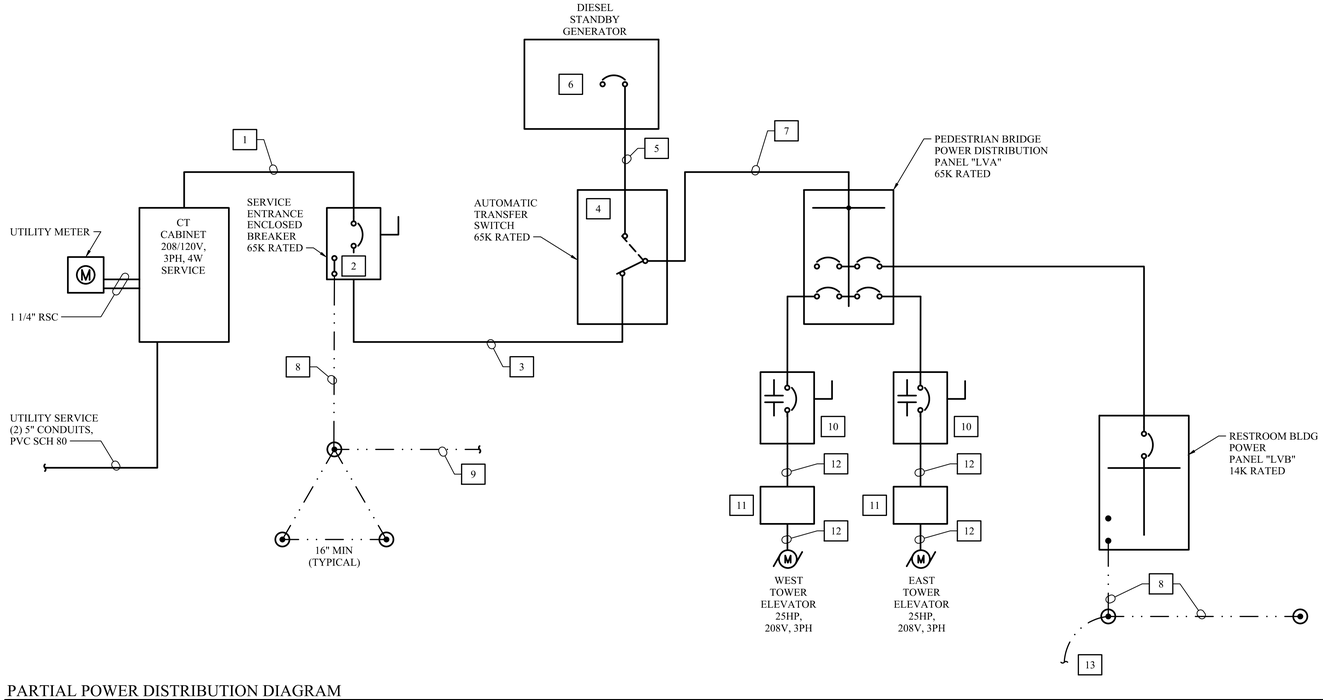
LEGEND

- CONDUIT RUN EXPOSED
- CONDUIT RUN UNDER CONCRETE FLOOR OR CONCEALED IN WALL
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- HOMERUN TO PANELBOARD
- DIRECT BURIED GROUND CONDUCTOR
- LED LIGHTING FIXTURE, LETTER INDICATES TYPE (A)
- COMBINATION EXIT/EMERGENCY LIGHT FIXTURE
- S — SINGLE POLE SWITCH
- S_3 — THREE WAY SWITCH
- S_4 — FOUR WAY SWITCH
- NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF UON
- OS — OCCUPANCY SENSOR
- F — ADDRESSABLE MANUAL FIRE ALARM PULL STATION
- F(X) — AUDIO/VISUAL (STROBE) FIRE ALARM ANNUNCIATOR
- (S) — SMOKE DETECTOR, WEATHER PROOF
- 200A — MOLDED CASE CIRCUIT BREAKER, TRIP RATING AS INDICATED
- GROUND
- NORMALLY OPEN CONTACTS
- M — STARTER COIL
- PANEL OR CABINET AS INDICATED
- M — MOTOR / PUMP
- J — JUNCTION BOX
- DISCONNECT SWITCH AS INDICATED
- M — MANUAL STARTER



CONNECTION DIAGRAM - NEUTRAL & GROUND CONDUCTORS

SCALE: NONE



PARTIAL POWER DISTRIBUTION DIAGRAM

SCALE: NONE

CONDUCTOR COLOR CODE	
CONDUCTOR	208/120V
PH A	BLACK
PH B	RED
PH C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

GENERAL NOTES:

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE GENERAL AND APPROXIMATE LOCATION OF EQUIPMENT AND EXISTING CONSTRUCTION. FIELD-VERIFY ALL DIMENSIONS AND LOCATIONS. INDICATED UNDERGROUND OBSTRUCTIONS WERE DEVELOPED FROM EXISTING RECORDS AND ABOVE-GROUND INSPECTION. ACCURACY OR COMPLETENESS OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES CANNOT BE GUARANTEED. VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES BEFORE STARTING WORK.
2. THESE DRAWINGS MAY NOT INDICATE ALL FITTINGS, PARTS AND ACCESSORIES THAT ARE REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. NO EXCLUSION FROM OR LIMITATION IN THE SYMBOLISM USED ON THE DRAWINGS FOR THE WORK, OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR THE WORK SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE AND REQUIRED WORK, SYSTEM, OR ITEM OF EQUIPMENT.
3. ALL ELECTRICAL WORK ON THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 VIRGINIA UNIFORM STATEWIDE BUILDING CODE AND NFPA 70-2017 (NATIONAL ELECTRICAL CODE).
4. COORDINATE ARRANGEMENT, MOUNTING, AND SUPPORT OF ELECTRICAL EQUIPMENT TO AVOID INTERFERENCES WITH ELECTRICAL AND OTHER TRADES. COORDINATE WORK WITH EXISTING CONDITIONS INCLUDING BEAMS, COLUMNS, SITE FEATURES, AND OTHER CONSTRUCTION WHETHER OR NOT SUCH IS SHOWN ON THE DRAWINGS. SET SLEEVES IN CAST-IN-PLACE CONCRETE AND MASONRY WALLS, AS THEY ARE CONSTRUCTED. COORDINATE LOCATION OF ACCESS PANELS AND DOORS FOR ELECTRICAL EQUIPMENT THAT ARE BEHIND FINISHED SURFACES OR ARE OTHERWISE CONCEALED. COORDINATE AMPACITY, VOLTAGE, PHASING, OVERCURRENT PROTECTION, AND LOCAL DISCONNECT REQUIREMENTS WITH ACTUAL EQUIPMENT PROVIDED.
5. MAINTAIN A SET OF AS-BUILT RED-LINE MARKUPS INDICATING ACTUAL INSTALLATION. DELIVER TO OWNER AT CONCLUSION OF PROJECT.
6. PROVIDE PRODUCT DATA SUBMITTALS FOR THE FOLLOWING EQUIPMENT: GENERATOR, AUTOMATIC TRANSFER SWITCH, PANELBOARDS, ENCLOSED CONTROLLERS, ENCLOSED SWITCHES, LUMINAIRES, DEVICES, FIRE ALARM SYSTEM, AND SIMILAR MATERIALS. MATERIALS INSTALLED PRIOR TO OBTAINING AN APPROVED SUBMITTAL ARE AT CONTRACTOR'S RISK.
7. CONTRACTOR SHALL ADVISE A/E IMMEDIATELY OF DISCREPANCIES WITHIN DRAWINGS. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHERE MAJOR CONFLICTS ARE ENCOUNTERED, THE AFFECTED WORK SHALL NOT BE INSTALLED UNTIL THE CONFLICT HAS BEEN RESOLVED. THE A/E IS NOT RESPONSIBLE FOR THE CONSEQUENCES OF PROCEEDING WITH WORK BASED ON CONTRACTOR INTERPRETATION OR ON DIRECTION FROM OTHER PARTIES.
8. CONTACT INFORMATION
   ELECTRIC UTILITY: TOWN OF CULPEPER LIGHT & POWER, MR. MIKE STOVER @ MSTOVER@CULPEPERVA.GOV (540-825-8165).

XX CONSTRUCTION NOTES:

1. 2 SETS OF (4 #350K, 3" RSC).
2. 600AMP, 3P, 250V, SERVICE ENTRANCE, 65 KAIC MINIMUM RATED, NEMA 1 ENCLOSED CIRCUIT BREAKER.
3. 2 SETS OF (4 #350K, 1 #1/0 EGC,3" RSC.)
4. 600AMP, 3P, 250V, 65KAIC MINIMUM RATED AUTOMATIC TRANSFER SWITCH, NEMA 1, ENCLOSED.
5. 2 SETS OF (4 #350K, 1 #1/0 EGC,3" RSC.)
6. 150KW, 208/120V, 3 ϕ, 4W DIESEL GENERATOR WITH K0200124Y21 - 200KW ALTERNATOR.
7. 2 SETS OF (4 #350K, 1 #1/0 EGC,3" RSC.)
8. #1/0 BCSD GROUND CONDUCTOR.
9. #1/0 BCSD TO BRIDGE FOOTING REBAR AND FOOTING STEEL.
10. LOCAL ELEVATOR SHUNT TRIP 125 AMP, 3 POLE, 65 KAIC MINIMUM RATED ENCLOSED CIRCUIT BREAKER.
11. ELEVATOR CONTROL PANEL.
12. 3 # 2, 1 # EGC, 1 1/2" CONDUIT.
13. #1/0 BCSD TO FOOTING STEEL.

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

COMMONWEALTH OF VIRGINIA — HERBERT E. WHITLOW — REG. NO. 42257 — PROFESSIONAL ENGINEER — 5-27-22

WW ENGINEERS SURVEYORS PLANNERS ASSOCIATES
PO Box 4110, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Danville, VA 24541, Phone: 434.964.2700
www.wwassociates.net

DESIGNED BY: WKH	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: STAFF	TITLE: LEGEND, ABBREVIATIONS, GENERAL NOTES AND POWER DISTRIBUTION DAIGRAM		DRAWING NUMBER: E-1
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: K21006E.dwg	DISCIPLINE: ELECTRICAL	SCALE: H: AS SHOWN V: N/A
			DATE: 5/27/22

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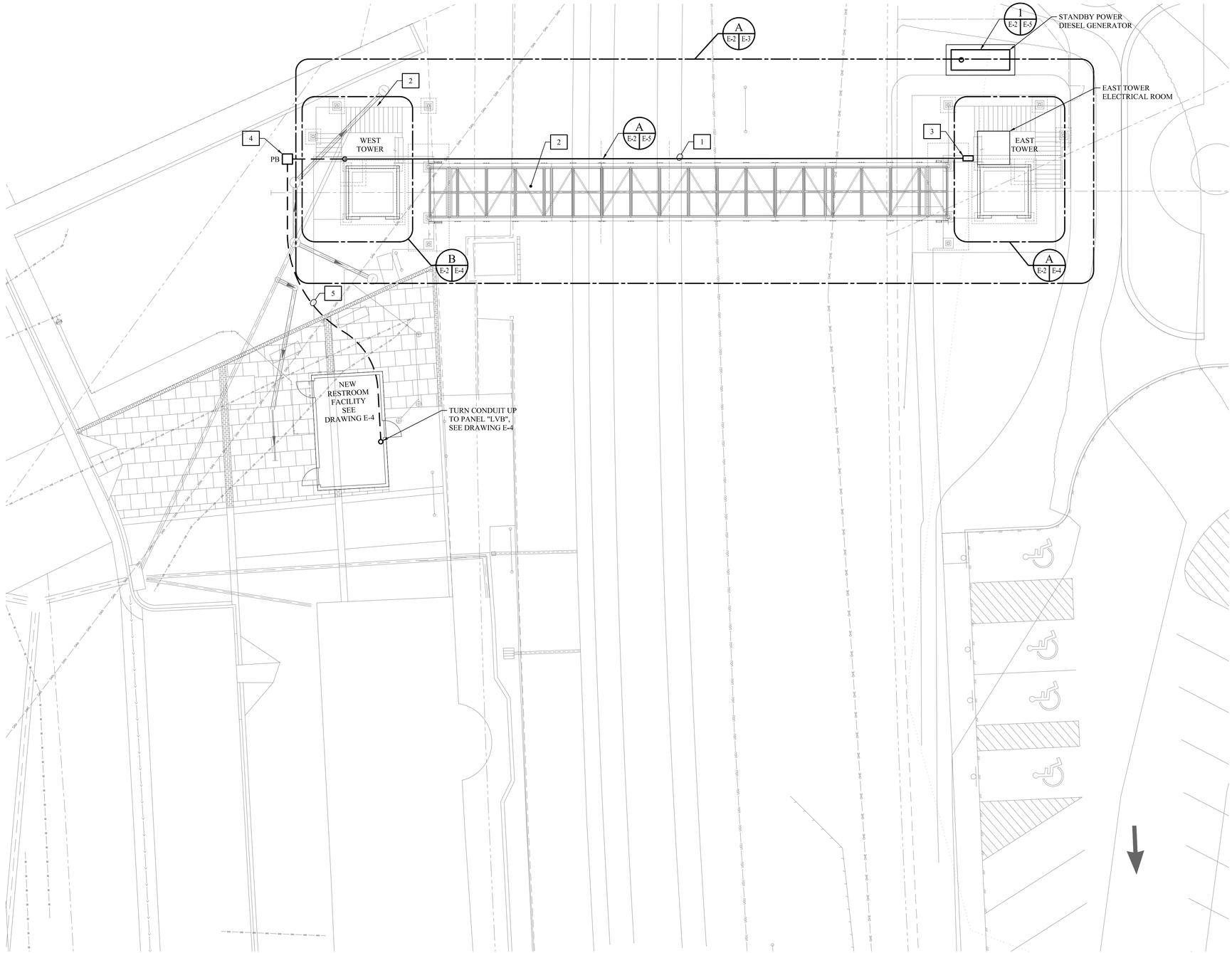

NORTH

PARTIAL SITE PLAN
SCALE: 1"=10'-0"

0 5' 10' 20'

XX CONSTRUCTION NOTES:

1. STRAP RESTROOM BUILDING FEEDER AND BRANCH CIRCUIT CONDUITS TO SIDE OF BRIDGE PER DETAIL.
2. PROVIDE PROMELT MAT OR APPROVED EQUAL FOR SNOW/ICE MELT ON ALL BRIDGE WALKWAY PER SPECIFICATIONS, JUNCTION BOXES FOR SNOW/ICE MELT CIRCUITS SHALL BE 4"x4"x4" DEEP CAST METAL BOXES WITH STAINLESS STEEL BLANK COVERS AND TAMPER-PROOF SCREWS.
3. 24"x24"x6" DEEP NEMA 4X, PULL BOX, HOFFMAN OR EQUAL WITH HINGED DOOR. INSTALL BOX ADJACENT TO BRIDGE WALKWAY PER SECTION.
4. FLUSH WITH GRADE, COMPOSITE PULL BOX, 24"x24"x24" DEEP, HIGHWAY RATED.
5. UNDERGROUND ELECTRICAL FEED TO RESTROOM BUILDING PANEL "LVB". PROVIDE CONDUIT AND WIRE PER PANEL "LVA" SCHEDULE.

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

COMMONWEALTH OF VIRGINIA
HERBERT K. WHITLOW
Lic. No. 022547
PROFESSIONAL ENGINEER
5-27-22

WW ASSOCIATES
ENGINEERS
SURVEYORS
PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: WKH	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: STAFF	TITLE: PARTIAL SITE PLAN		DRAWING NUMBER: E-2
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: K21006E.dwg	DISCIPLINE: ELECTRICAL	SCALE: H: AS SHOWN V: N/A
			DATE: 5/27/22

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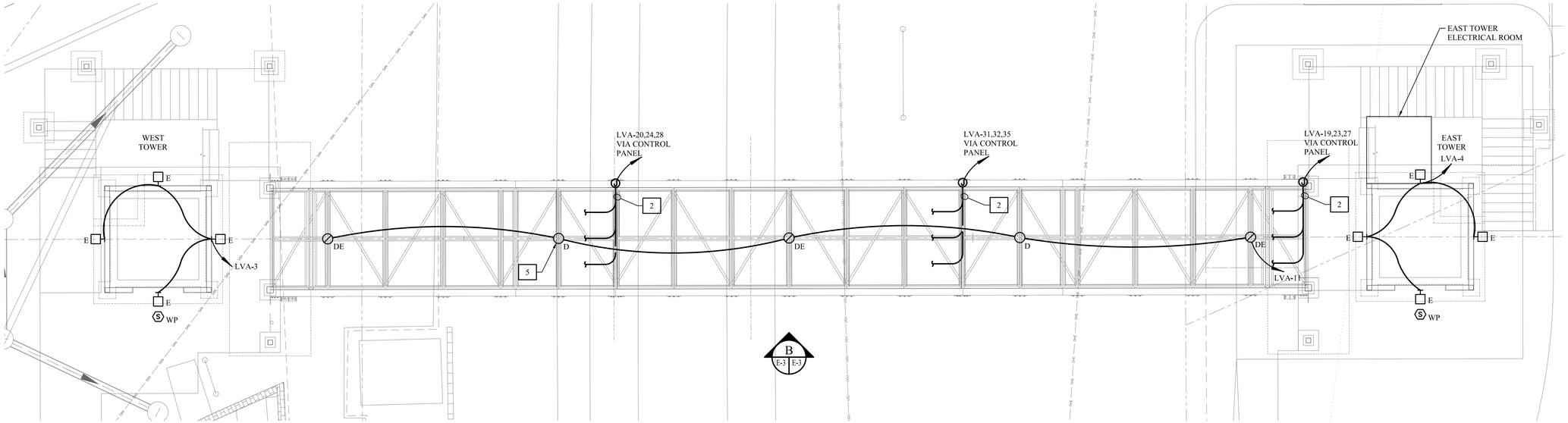
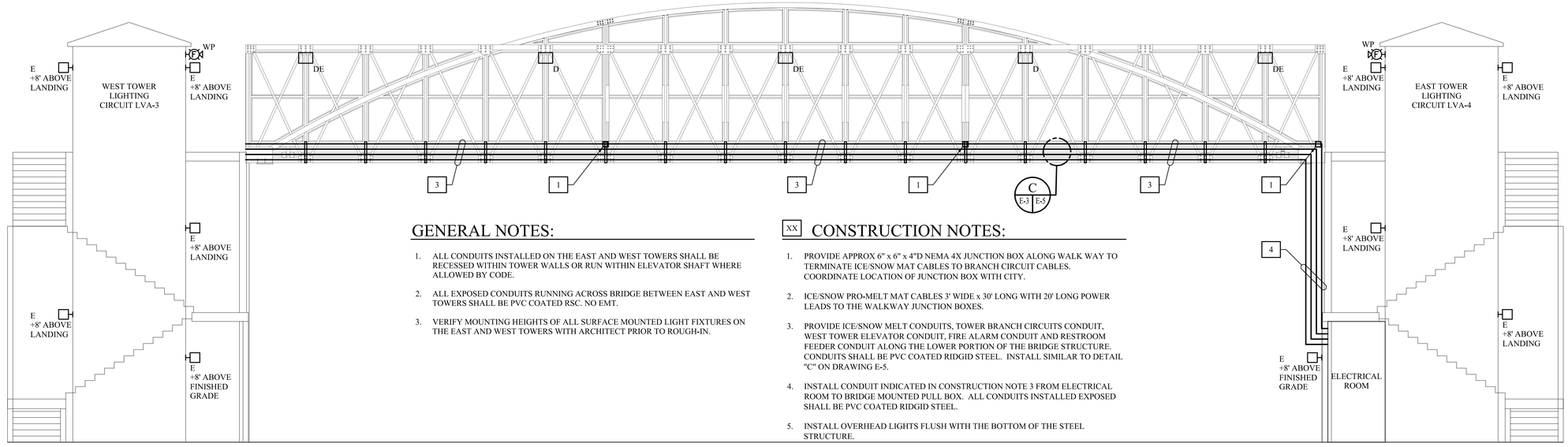


A
E-2 E-3
POWER AND LIGHTING PLAN NORTH & SOUTH TOWER / BRIDGE
SCALE: 3/16"=1'-0"

0 5' 10'



GENERAL NOTES:

1. ALL CONDUITS INSTALLED ON THE EAST AND WEST TOWERS SHALL BE RECESSED WITHIN TOWER WALLS OR RUN WITHIN ELEVATOR SHAFT WHERE ALLOWED BY CODE.
2. ALL EXPOSED CONDUITS RUNNING ACROSS BRIDGE BETWEEN EAST AND WEST TOWERS SHALL BE PVC COATED RSC. NO EMT.
3. VERIFY MOUNTING HEIGHTS OF ALL SURFACE MOUNTED LIGHT FIXTURES ON THE EAST AND WEST TOWERS WITH ARCHITECT PRIOR TO ROUGH-IN.

XX CONSTRUCTION NOTES:

1. PROVIDE APPROX 6" x 6" x 4"D NEMA 4X JUNCTION BOX ALONG WALK WAY TO TERMINATE ICE/SNOW MAT CABLES TO BRANCH CIRCUIT CABLES. COORDINATE LOCATION OF JUNCTION BOX WITH CITY.
2. ICE/SNOW PRO-MELT MAT CABLES 3' WIDE x 30' LONG WITH 20' LONG POWER LEADS TO THE WALKWAY JUNCTION BOXES.
3. PROVIDE ICE/SNOW MELT CONDUITS, TOWER BRANCH CIRCUITS CONDUIT, WEST TOWER ELEVATOR CONDUIT, FIRE ALARM CONDUIT AND RESTROOM FEEDER CONDUIT ALONG THE LOWER PORTION OF THE BRIDGE STRUCTURE. CONDUITS SHALL BE PVC COATED RIDGID STEEL. INSTALL SIMILAR TO DETAIL "C" ON DRAWING E-5.
4. INSTALL CONDUIT INDICATED IN CONSTRUCTION NOTE 3 FROM ELECTRICAL ROOM TO BRIDGE MOUNTED PULL BOX. ALL CONDUITS INSTALLED EXPOSED SHALL BE PVC COATED RIDGID STEEL.
5. INSTALL OVERHEAD LIGHTS FLUSH WITH THE BOTTOM OF THE STEEL STRUCTURE.

B
E-3 E-3
ELEVATION
SCALE: 3/16"=1'-0"

0 5' 10'

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

COMMONWEALTH OF VIRGINIA
HERBERT F. WALTHALL III
Lic. No. 42257
PROFESSIONAL ENGINEER
5-27-22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: WKH	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: STAFF	TITLE: POWER PLAN AND LIGHTING PLAN		DRAWING NUMBER: E-3
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: K21006E.dwg	DISCIPLINE: ELECTRICAL	SCALE: H: AS SHOWN V: N/A
			DATE: 5/27/22

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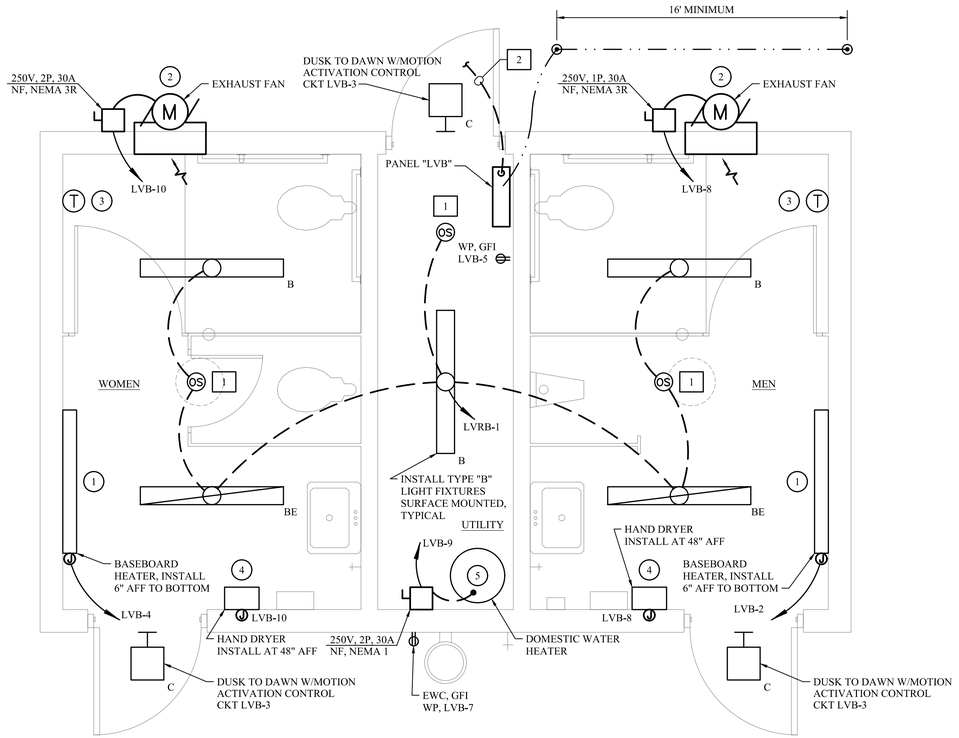
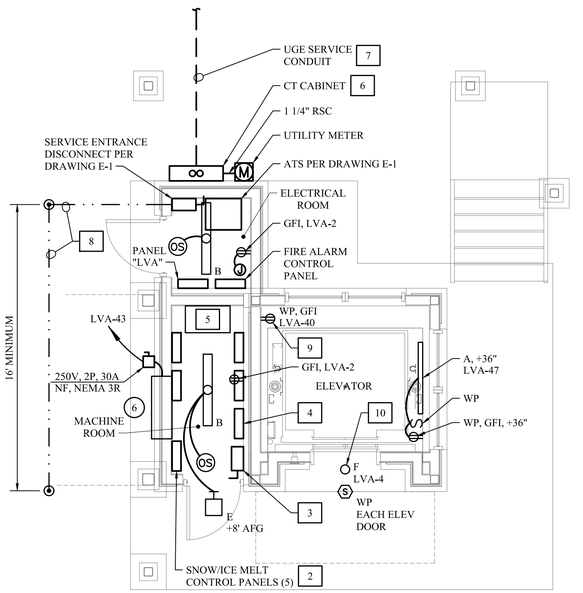


NORTH

POWER AND LIGHTING PLAN

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

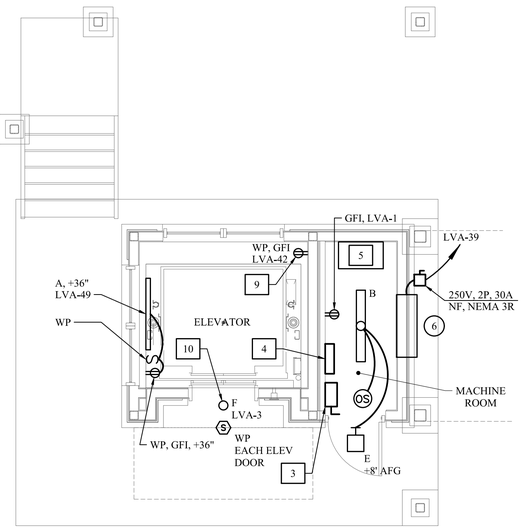
0 6" 1' 2' 5'



A EAST TOWER ELECTRICAL AND MACHINE ROOM PLAN - EL 406'-6"

E-2 | E-4 SCALE: 1/4"=1'-0"

0 1' 5' 10'



B WEST TOWER MACHINE ROOM PLAN - EL 406'-6"

E-2 | E-4 SCALE: 1/4"=1'-0"

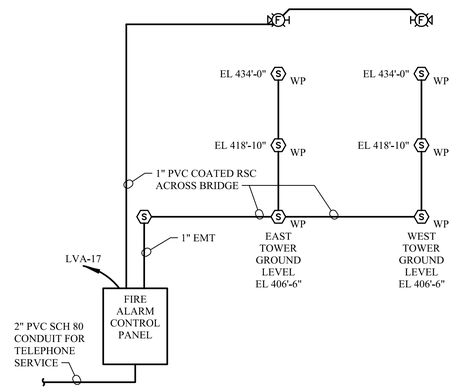
0 1' 5' 10'

XX ELECTRICAL CONSTRUCTION NOTES:

1. CEILING MOUNTED OCCUPANCY SENSORS: DUAL TECHNOLOGY TYPE (PASSIVE INFRARED AND ULTRASONIC), 120/277V, ADJUSTABLE TIME DELAY UP TO 30 MINUTES, 360-DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 1,200 SQ FT. SENSOR TO OPERATE AT LINE VOLTAGE WITHOUT THE NEED FOR EXTERNAL POWER PACKS OR RELAYS. SENSOR TO INCLUDE CONCEALED "OFF" TIME DELAY SELECTOR WITH SETTINGS BETWEEN 5 MINUTES AND 30 MINUTES. PROVIDE VOICE REACTIVATION WHICH WILL AUTOMATICALLY TURN LIGHTS BACK ON WHEN ACTIVATED BY VOICE WITHIN 10 SECONDS OF TURNING OFF. SENSOR SETTINGS SHALL BE ADJUSTABLE AT THE SENSOR WITHOUT THE NEED FOR SPECIALIZED TOOLS OR PROGRAMMERS.
2. STACK SNOW/ICE CONTROL PANELS IF REQUIRED. COORDINATE ELEVATION CONTROLLER REQUIREMENTS PRIOR TO LOCATING SNOW/ICE CONTROL PANELS.
3. ELEVATOR SHUNT TRIP ENCLOSED CIRCUIT BREAKER PER DRAWING E-1.
4. ELEVATOR CONTROL PANEL.
5. ELEVATOR HYDRAULIC/MOTOR.
6. PROVIDE NEMA 3R, 36"x36"x12" DEEP CT CABINET WITH HINGED DOOR TO MEET UTILITY COMPANY'S REQUIREMENTS.
7. PROVIDE (2) 5" PVC SCHEDULE 80 UGE CONDUITS TO UTILITY COMPANY PAD MOUNTED TRANSFORMER.
8. #1/0 BARE COPPER. CONNECT FROM FOOTING STEEL, SE SWITCH, AND GROUND RODS.
9. SUMP POWER SUPPLY RECEPTACLE. COORDINATE LOCATION WITH SUMP PIT.
10. TYPICAL FOR EACH ELEVATOR DOOR LOCATION.

X MECHANICAL EQUIPMENT NOTES:

1. BASEBOARD HEATER SHALL BE DAYTON 1,250 WATT, MODEL 5GKF8, 120 VOLT, OR APPROVED EQUAL.
2. EXHAUST FAN SHALL BE GREENHECK MODEL #SE1-10-6-20-D-5, SIDE WALL MOUNT, 600 CFM @ 1,550 RPM, 1/4 HP, 115V, 1 PHASE. PROVIDE WITH WALL COLLAR, MODEL #WD GRAVITY EXHAUST DAMPER. INSTALL EXHAUST FAN 12" BELOW CEILING. FAN ROUGH OPENING IS 12.5 INCHES, MINIMUM WALL THICKNESS IS 6" OR FAN OFFSET MUST BE PROVIDED. CONTRACTOR MAY SUBSTITUTE WITH OTHER MANUFACTURER'S FOR APPROVAL, BUT THE ROUGH WALL OPENING SHALL NOT CHANGE.
3. LOCATE LINE VOLTAGE THERMOSTAT FOR EXHAUST FAN WHERE INDICATED ON THE DRAWINGS AND APPROX 5' AFF.
4. HAND DRYER SHALL BE XLERATOR MODEL XL-SB, 1,400 WATT, 120 VOLT, INSTALLED AT 36" AFF TO MEET HANDICAP ACCESSIBLE REQUIREMENTS.
5. DOMESTIC WATER HEATER SHALL BE RHEEM, 50 GALLON, 240 VOLT, SINGLE PHASE, 4.5KW OR APPROVED EQUAL.
6. THRU-THE-WALL PTAC UNIT SHALL BE MANUFACTURED BY FRIEDRICH, MODEL #PDE07K3SG, 13.0 EER OR APPROVED EQUAL. PROVIDE COMPLETE WITH WALL SLEEVE AND PER MANUFACTURER'S INSTRUCTIONS. VERIFY LOCATION OF UNIT WITH ALL OTHER UTILITIES PRIOR TO ROUGHING IN FOR UNIT.



FIRE ALARM RISER DIAGRAM

SCALE: NONE

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COMMONWEALTH OF VIRGINIA
HERBERT F. WHITE III
Lic. No. 022497
PROFESSIONAL ENGINEER
5-27-22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Effingtia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: WKH	PROJECT: CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: STAFF	TITLE: POWER PLAN AND LIGHTING PLAN		DRAWING NUMBER: E-4
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: K21006E.dwg	DISCIPLINE: ELECTRICAL	SCALE: H: AS SHOWN V: N/A
			DATE: 5/27/22

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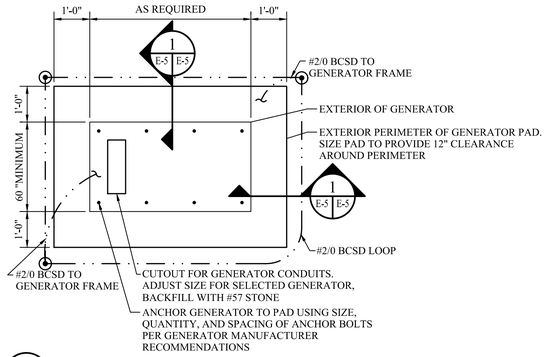
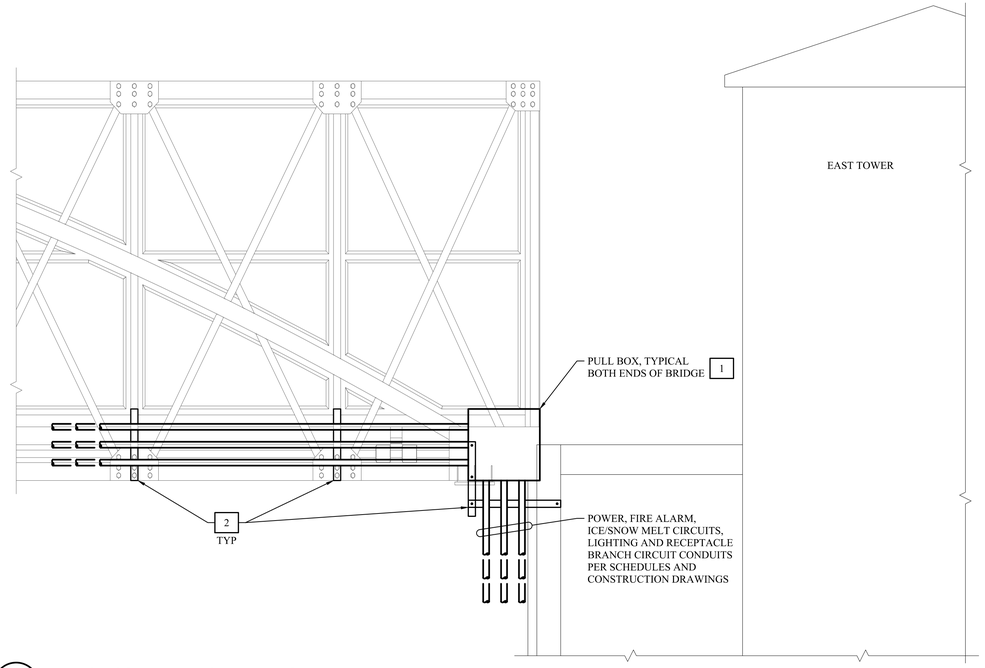


CONCRETE AND REINFORCEMENT NOTES:

1. GENERATOR PAD SOIL BEARING CAPACITY SHALL BE A MINIMUM 1,500 PSF. CONTRACTOR SHALL ENGAGE INSPECTOR TO VERIFY SOIL BEARING CAPACITY AND REINFORCEMENT PLACEMENT PRIOR TO CONCRETE PLACEMENT. SUBMIT INSPECTION REPORT TO A/E FOR REVIEW.
2. CONCRETE SHALL BE NORMAL WEIGHT 145 PCF WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. REINFORCING BARS SHALL BE ROLLED FROM NEW BILLET STEEL CONFORMING WITH ASTM A615/A615M, GRADE 60, UNLESS OTHERWISE NOTED.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR ALL REINFORCEMENT, UNLESS OTHERWISE NOTED:
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BAR AND SMALLER: 1 1/2"
5. LAP ALL REINFORCING SPLICES AT LEAST 48 BAR DIAMETERS (24" MINIMUM) UNLESS OTHERWISE NOTED.
6. ALL REINFORCING SHALL BE SECURELY WIRED TOGETHER IN FORMS AS CALLED FOR IN "PLACING REINFORCING BARS" BY CRSI.
7. STONE BASE SHALL BE 4" THICK, #57 STONE.

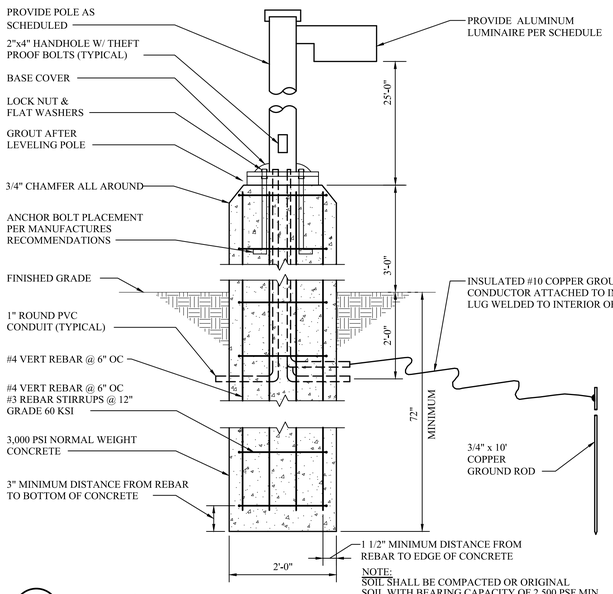
A GENERATOR PAD PLAN
E-2 E-5 SCALE: NONE



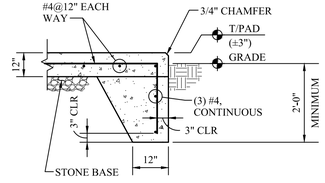
XX CONSTRUCTION NOTES:

1. PULL BOX SHALL BE NEMA 3R RATED, WITH HINGED COVER, MINIMUM SIZE 24"Tx24"Wx12"D. NO SPLICES WILL BE ALLOWED IN PULL BOXES.
2. PROVIDE STAINLESS STEEL UNISTRUT WITH STAINLESS STEEL HARDWARE AS REQUIRED TO SUPPORT PULL BOXES AND CONDUITS CROSSING BRIDGE TO WEST SIDE ELEVATOR, TOWER BRANCH CIRCUITS, RESTROOM FACILITY AND ICE/SNOW MELT CIRCUITS.

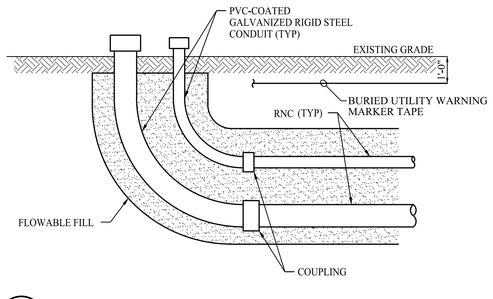
C BRIDGE CONDUIT INSTALLATION DETAIL
E-3 E-5 SCALE: NONE



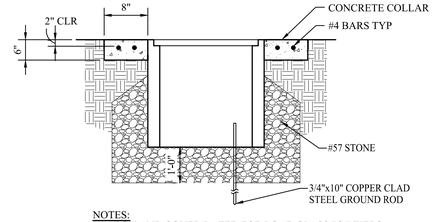
B LIGHT POLE DETAIL
E-2 E-5 SCALE: NONE



1 GENERATOR PAD SECTION
E5 E5 SCALE: NONE

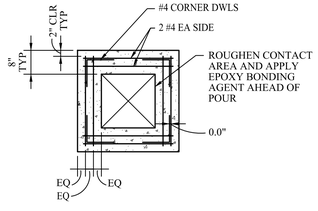


D MULTIPLE CONDUITS TRANSITION - TYP STUB UP DETAIL
E-3 E-5 SCALE: NONE

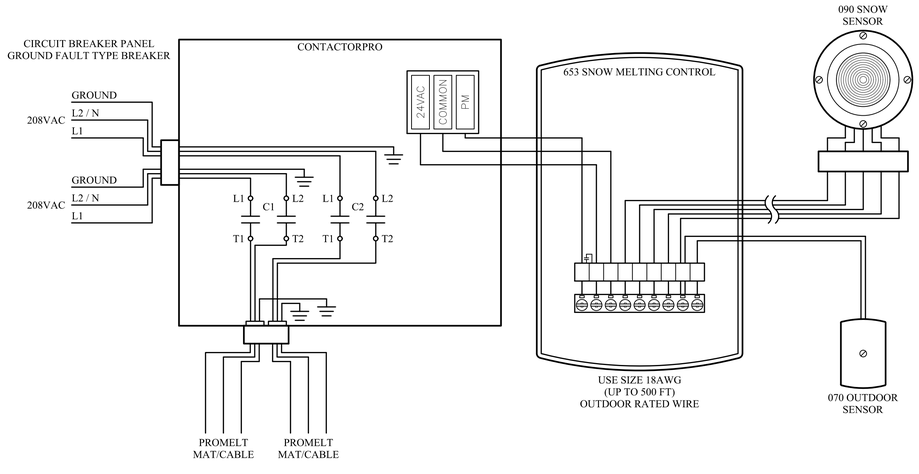


NOTES:
1. BOX AND COVER RATED FOR LOAD CLASS "C," TIERS INDICATED DWG E1.4.
2. BOXES TO BE UL LISTED.
3. COVER TO BE FULL SIZE.
4. BOX TO BE SIZED PER PLANS.
5. COVER TO BE LABELED "ELECTRICAL."
6. ENDS OF CONDUIT SHALL BE SEALED WITH ELECTRICAL PUTTY AFTER WIRING IS COMPLETE.
7. CONDUITS INTO BOTTOM OR SIDE OF BOX BASED UPON FIELD CONDITIONS (ELEVATIONS).

E TYPICAL PULL BOX DETAIL
E-3 E-5 SCALE: NONE



F PULL BOX CONCRETE COLLAR DETAIL
E-3 E-5 SCALE: NONE



G SNOW MELTING CONTROL KIT DIAGRAM (TYPICAL OF 5 PANELS)
E-3 E-5 SCALE: NONE

NO.	SHEET REVISION	BY	DATE
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22

HERBERT F. WHITLOW
Lic. No. 022507
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
5-27-22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite I, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

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DRAWN BY: STAFF	TITLE: DETAILS		DRAWING NUMBER: E-5
DIHR BY: HFW			
WWA NUMBER: 220047.01	FILE NAME: K21006E.dwg	DISCIPLINE: ELECTRICAL	SCALE: H: AS SHOWN V: N/A
			DATE: 5/27/22

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PANEL "LVA" SCHEDULE

PANELBOARD CHARACTERISTICS:
VOLTS: 120/208
PHASES: 3
WIRES: 4
SOLID NEUTRAL, GROUND BAR

PHASE TO PHASE VOLTS: 208
PHASE TO NEUT. VOLTS: 120

600 AMP MAIN LUGS ONLY
MINIMUM SHORT CIRCUIT RATING: 42,000 RMS SYM AMPS
SERVICE ENTRANCE RATED

CKT. NO.	POLE NO.	DESCRIPTION	LOAD TYPE	CONN. KVA	CONN. AMPS A	B	C	BREAKER P	AT	NO. & WIRE SIZE PHASE	NEUT.	GND	COND. SIZE
1	1	WEST TOWER RECEPTACLES	R	0.4	3.3			1	20	10	10	10	1"
3	3	WEST TOWER LIGHTING	L	1.0		8.3		1	20	10	10		
7	5	WEST TOWER ELEVATOR	E	33.1			91.9	3	150	1/0	-	3	2"
	7	30 HP ESTIMATED			91.9					1/0			
	9					91.9				1/0			
11	11	BRIDGE LIGHTING	L					1	20	12	12	12	3/4"
13	13	PARKING LOT LED LIGHTING	L	1.5	7.2			2	20	6	-	10	1"
	15					7.2				6			
17	17	FIRE ALARM PANEL	E	0.5			4.2	1	20	12	12	12	3/4"
19	19	ICE/SNOW MELT	E	4.5	21.6			2	30	10	-	10	1"
	21	WIRE THRU CONTROL PANEL				21.6			GFI	10			
23	23	ICE/SNOW MELT	E	4.5			21.6	2	30	10	-		
	25	WIRE THRU CONTROL PANEL			21.6				GFI	10			
27	27	ICE/SNOW MELT	E	4.5		21.6		2	30	10	-		
	29	WIRE THRU CONTROL PANEL					21.6		GFI	10			
31	31	ICE/SNOW MELT	E	4.5	21.6			2	30	10	-		
	33	WIRE THRU CONTROL PANEL				21.6			GFI	10			
35	35	ICE/SNOW MELT	E	4.5			21.6	2	30	10	-	10	1"'
	37	WIRE THRU CONTROL PANEL			21.6				GFI	10			
39	39	WEST TOWER PTAC	M	3.4		16.3		2	30	10	-	10	1"
	41						16.3			10			
43	43	EAST TOWER PTAC	M	3.4	16.3			2	30	10	-	10	1"
	45					16.3				10			
47	47	EAST TOWER ELEVATOR SHAFT LTG & RCPTS	E	0.5			4.2	1	20	12	12	12	3/4"
49	49	WEST TOWER ELEVATOR SHAFT LTG & RCPT	E	0.5	4.2			1	20	10	10	10	1"
51	51	SPARE						1	20				
53	53	SPARE						1	20				
2	2	EAST TOWER RECEPTACLES	R	0.4		3.3		1	20	12	12	12	3/4"
4	4	EAST TOWER LIGHTINGS	L	1.0			8.3	1	20	12	12		
8	6	EAST TOWER ELEVATOR	E	33.1	91.9			3	150	1	-	4	2"
	8	30 HP ESTIMATED				91.9				1			
	10						91.9			1			
14	12	RESTROOM PANEL "LVB"	E	26.0			72.2	3	100	2/0	-	4	2"
	14				72.2					2/0	2/0		
	16					72.2				2/0			
18	18	SPARE						1	20				
20	20	ICE/SNOW MELT	E	4.5	21.6			2	30	10	-	10	1"
	22	WIRE THRU CONTROL PANEL				21.6			GFI	10			
24	24	ICE/SNOW MELT	E	4.5			21.6	2	30	10	-		
	26	WIRE THRU CONTROL PANEL			21.6				GFI	10			
28	28	ICE/SNOW MELT	E	4.5		21.6		2	30	10	-		
	30	WIRE THRU CONTROL PANEL					21.6		GFI	10			
32	32	ICE/SNOW MELT	E	4.5	21.6			2	30	10	-		
	34	WIRE THRU CONTROL PANEL				21.6			GFI	10			
36	36	SPARE						2	30				
	38								GFI				
40	40	EAST ELEVATOR SUMP PUMP	E	0.9		7.5		1	15	12	12	12	3/4"
42	42	WEST ELEVATOR SUMP PUMP	E	0.9			7.5	1	15	10	10	10	1"
44	44	KIOSK						1	20				2"
46	46	FOUNTAIN						1	20				2"
48	48	SPARE						1	20				
50	50	SPARE						1	20				
52	52	SPARE						1	20				
54	54	SPARE						1	20				
		TOTALS		136.3	438.4	415.7	397.1						

PANEL "LVB" SCHEDULE

PANELBOARD CHARACTERISTICS:
VOLTS: 120/208
PHASES: 3
WIRES: 4
SOLID NEUTRAL, GROUND BAR

PHASE TO PHASE VOLTS: 208
PHASE TO NEUT. VOLTS: 120

100 AMP MAIN CIRCUIT BREAKER
MINIMUM SHORT CIRCUIT RATING: 14,000 RMS SYM AMPS
SERVICE ENTRANCE RATED

CKT. NO.	POLE NO.	DESCRIPTION	LOAD TYPE	CONN. KVA	CONN. AMPS A	B	C	BREAKER P	AT	NO. & WIRE SIZE PHASE	NEUT.	GND	COND. SIZE
1	1	LIGHTING, INTERIOR	L	0.4	3.3			1	20	12	12	12	3/4"
3	3	LIGHTING, EXTERIOR	L	0.6		5.0		1	20	12	12		
5	5	RECEPTACLE UNDER PANEL LVB	R	0.4			3.3	1	20	12	12	12	3/4"
7	7	ELECTRIC WATER COOLER	E	1.0	8.3			1	20	12	12		
9	9	DOMESTIC WATER HEATER	M	4.5		21.6		2	30	10	-	10	3/4"
	11						21.6			10			
13	13	SPARE						2	20				
	15												
17	17	SPARE						1	20				
19	19	SPARE						1	20				
21	21	SPARE						1	20				
23	23	SPARE						1	20				
25	25	SPARE						1	20				
27	27	SPARE						1	20				
29	29	SPARE						1	20				
2	2	HAND DRYER, LEFT SIDE ROOM	E	1.4	11.7			1	20	12	12		
4	4	HAND DRYER, RIGHT SIDE ROOM	E	1.4		11.7		1	20	12	12	12	3/4"
6	6	SPARE						1	20				
8	8	EXHAUST FAN LEFT SIDE ROOM	E	0.7	5.8			1	20	12	12		
10	10	EXHAUST FAN RIGHT SIDE ROOM	E	0.7		5.8		1	20	12	12	12	3/4"
12	12	LEFT SIDE BASEBOARD HEATER	M	1.2			10.0	1	20	12	12		
14	14	RIGHT SIDE BASEBOARD HEATER	M	1.2	10.0			1	20	12	12		
16	16	SPACE						1				12	3/4"
18	18	SPACE						1					
20	20	SPACE						1					
22	22	SPACE						1					
24	24	SPACE						1					
26	26	SPACE						1					
28	28	SPACE						1					
30	30	SPACE						1					
		TOTALS		13.5	39.2	44.1	35.0						

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	FIXTURE VOLTAGE	LAMPS WATTS/LUMENS	LAMPS TYPE	MOUNTING	REMARKS
A	LITHONIA	CSVT L48 AL03 120 SWW3 80CRI 3100LM 40K	120	27/3100	LED'S	SURFACE	ELEVATOR SHAFT LIGHT AT LOWER ELEVATION
B	LITHONIA	CLX L48 4000LM RDL 120 PROR 80CRI WH	120	30/4000	LED'S	SURFACE	RESTROOM BLDG, INTERIOR LIGHTING
BE	LITHONIA	CLX L48 4000LM RDL 120 PROR PS1050 80CRI WH	120	30/4000	LED'S	SURFACE	RESTROOM BLDG, INTERIOR LIGHTING WITH BATTERY BACKUP
C	LITHONIA	MRW LED P2 40K SR4 120 PE E10WH PIR DDBXD	120	30/3000	LED'S	WALL	EXTERIOR LIGHTING @ DOORS WITH BATTERY BACKUP
D	LITHONIA	VCPG LED V4 P2 T5W 40K 80CRI 120 SRM PIR DDBXD	120	34/4900	LED'S	WALL	BRIDGE LIGHTING
DE	LITHONIA	VCPG LED V4 P2 T5W 40K 80CRI 120 SRM PIR DDBXD	120	34/4900	LED'S	WALL	BRIDGE LIGHTING WITH BATTERY BACKUP
E	LITHONIA	MRW LED P3 40K SR4 120 PE E10WH PIR DDBXD	120	40/4700	LED'S	WALL	EXTERIOR WALLS OF TOWERS WITH BATTERY BACKUP
F	LITHONIA	LD4N 40K 25 L04 WR LSS 120 GZ10 EL	120	26/2500	LED'S	RECESSED	RECESSED LIGHT AT THE ELEVATOR DOOR ENTRIES
EMX	LITHONIA	LHQM-LED-R-HO	120		LED'S	WALL	COMBINATION EMERGENCY/EXIT UNIT
SL1			208		LED'S	POLE	AREA LIGHTING, PARKING LOT, ON HOLD FOR CLEINT SELECTION

Culpeper Bridge K21006

15-May-22 WKH

Voltage Drop Calculation

(based on method from Cutler-Hammer Consulting Application Catalog)

Project Name: CULPEPER STATION

Commission Number: K21006

Date: May 5, 2022

Calculated by: WKH

Circuit Name/Number:
RESTROOM PANEL "LVB" FEEDER

Circuit Data:

System Voltage (V):	208Y/120
Circuit Voltage (V):	208
Circuit Length (feet):	240.0
Number of Phases:	3
Circuit Amps:	75.0
Conductor Size:	2/0 AWG
Number of Sets of Conductors:	1
Power Factor (%):	90
Conduit Type:	magnetic
Max. Allowable Voltage Drop (%)	2

Voltage Drop Data:

Max. Allowable Voltage Drop (V):	4.16
Actual Voltage Drop (V):	3.4
Actual Voltage Drop (%):	1.6

SHORT CIRCUIT CALCULATIONS

Service Voltage	12470	V
Overall Service Size (Assumed)		A
Transformer Size	225	kVA

Service Transformer	225 KVA			Comments
Isca from line side source	999999999			
Primary Voltage (Vpp)	12470			
Secondary Voltage (Vsp)	208			
Transformer Size (kVA)	225			
Transformer Impedance (%Z)	3.00			
Minimum Impedance (%Zmin)	2.70			
f = (Isca x Vpp x %Zmin) / (100,000 * kVA)	1496400.00			
M= 1 / (1 + f)	0.000			
Isc at Secondary = Vpp x M x Isca / Vsp	40064			
Total Motor Amperage	184			
Motor Multiplier	6			
Total Motor Contribution	1104			
Isc Total	41168			
Suggested Minimum Rating	42,000			

Service Disconnect	ECB			Comments
Isc from line side source	41168			
Voltage Phase to Phase (Vpp)	208			
Distance from line source (L) in feet	5			
Raceway	RSC			
Conductor	350K			
Conductors per Phase (N)	2			
C (from tables)	19704			
f = (1.732 x L x Isca) / (Vpp x N x C)	0.043			
M= 1 / (1 + f)	0.958			
Isc from line (Iscl) = M x Isca	39452			
Total Motor Amperage	200			
Motor Multiplier	6			
Total Motor Contribution	1200			
Isc Total	40652			
Suggested Minimum Rating	42000			Rating

From LVA to ATS	ATS	LVA	LVB	Comments
Isc from line side source	40652	40652	40652	
Voltage Phase to Phase (Vpp)	208	208	208	
Distance from line source (L) in feet	5	5	240	
Raceway	RSC	RSC	PVC	
Conductor	350K	350K	2/0	
Conductors per Phase (N)	2	2	1	
C (from tables)	19704	19704	10755	
f = (1.732 x L x Isca) / (Vpp x N x C)	0.043	0.043	7.554	
M= 1 / (1 + f)	0.959	0.959	0.117	
Isc from line (Iscl) = M x Isca	38978	38978	4752	
Total Motor Amperage	200	200	5	
Motor Multiplier	6	6	6	
Total Motor Contribution	1200	1200	30	
Isc Total	40178	40178	4782	
Suggested Minimum Rating	42000	42000	14000	Rating

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE
3	ADDRESSED CLIENT COMMENTS	SAR	11/11/22				

COMMONWEALTH OF VIRGINIA
HERBERT E. WALTON III
Lic. No. 022597
PROFESSIONAL ENGINEER
5-27-22

WW ASSOCIATES
ENGINEERS SURVEYORS PLANNERS
PO Box 4119, Lynchburg, VA 24502, Phone: 434.316.6080
968 Olympia Drive, Suite 1, Charlottesville, VA 22911, Phone: 434.984.2700
www.wwassociates.net

DESIGNED BY: WKH
DRAWN BY: STAFF
DIHR BY: HFW
WWA NUMBER: 220047.01

PROJECT: CULPEPER STATION
RAILROAD PEDESTRIAN BRIDGE
TOWN OF CULPEPER, VIRGINIA

TITLE: SCHEDULES

FILE NAME: K21006E.dwg
DISCIPLINE: ELECTRICAL
SCALE: H: AS SHOWN V: N/A
DATE: 5/27/22

SET REV. NO. 3
DRAWING NUMBER: E-6

C:\Users\dlinkins\AppData\Local\Temp\AcPublish_6580\K21006E.dwg


TMP 41A2-1H2-18A
TOWN OF CULPEPER
DB 612 PG 24
ZONED M-1
USE: COMMERCIAL
CULPEPER STATION
OLD TRAIN DEPOT BUILDING
CABOOSE
BENCH
METAL FENCE RAILING
WOODEN WALK
WOODEN STAIRS
CONCRETE BOARDING PLATFORM
RETAINING WALL
NORFOLK SOUTHERN AMTRAK
RAMP
SPRINT MARKER POST
RR SIGN
RR PEDESTAL
NEW 4'-6" CHAINLINK FENCE
EXIST SMH-B
NEW TOP-399.32
NOTE: CONTRACTOR SHALL SPACE POLES FOR NEW FENCE TO AVOID CONFLICTS WITH EXISTING SMH
RAILROAD CROSSING STOP
5' CONC SIDEWALK
LIMITS OF CONSTRUCTION
SEE PLANS TITLED "CULPEPER STATION RAILROAD PEDESTRIAN BRIDGE" BY WW ASSOCIATES FOR DETAILS IN THIS AREA
CONTRACTOR LAYDOWN AREA (APPROX. 84'x275')
4" WIDE WHITE STRIPES FOR ALL PARKING SPACES
WHITE THERMOPLASTIC DIRECTIONAL ARROWS (TYPICAL)
PARKING BLOCK (TYPICAL)
4" WIDE WHITE STRIPING AT 2' SPACING IN ALL PARKING GORE AREAS
6.0' CROSSWALK
TRUNCATED DOMES
8' ASPHALT TRAIL
SIGN: KEEP RIGHT
SIGN: STOP
NALLE PLACE
EAST SPENCER ST
HANDICAP PARKING SIGN (TYPICAL)
REMOVABLE BOLLARDS
CONCRETE PAD FOR BIKE RACK (SEE DETAIL ON DWG C-16)
CONCRETE PAD FOR BUS SHELTER. EXISTING BUS SHELTER NEAR COMMERCE STREET & WAUSAU PLACE INTERSECTION TO BE TRANSFERRED TO THIS LOCATION.
TMP 41A2-1H2-16
UNITED STATES OF AMERICA
(NATIONAL CEMETARY)
ZONED M-1
40" DIA MAPLE W/ 60' CANOPY
CROSS SLOPE
10' WIDE PAVED TRAIL
NEW 6' CHAINLINK FENCE
1' HIGH RIP-RAP WEIR WALL (TYP)
1' DEEP MICRO POOL. BOTTOM ELEV = 371.00'
STORMWATER MANAGEMENT FACILITY
6'Ø CONCRETE OUTFALL STRUCTURE
SCC 1 W/EC-2
36" RCP OUTFALL PIPE
6' TALL FENCE
4' WIDE GATE
EXISTING TREE TRUNK LINE
TMP 41A2-1H2-21 PARKER FORD ZONED M-1 USE: SINGLE FAMILY DWELLING
TMP 41A2-1H2-22 MILDRED PETERS ZONED M-1 USE: SINGLE FAMILY DWELLING
TMP 41A2-1H2-23 RENONIA HARRINGTON ADM ET AL INST #190000194 ZONED M-1 USE: SINGLE FAMILY DWELLING
TMP 41A2-1H2-24 RENONIA HARRINGTON ADM ET AL INST #190000194 ZONED M-1 USE: SINGLE FAMILY DWELLING
TMP 41A2-102-1 BINGHAM & TAYLOR CORP INST #050000113 ZONED M-2 USE: INDUSTRIAL
TMP 41A2-1H2-16 UNITED STATES OF AMERICA (NATIONAL CEMETERY) ZONED M-T USE: CEMETERY
SMH TOP=381.30 INV IN=374.48 12" PVC INV OUT=374.38 12" DIP
SMH TOP=378.28 INV IN=373.50 12" PVC INV OUT=373.40 12" PVC
SMH TOP=374.62 INV IN=366.67 12" PVC INV OUT=366.57 12" PVC
42" HDPE INV=370.40'
N
IF THIS DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED
SCALE: 1" = 30'
30' 0 30'

M:\220047 Culpeper Station\220047.00 Parking Layout\004700C_SP-1.dwg

NO.	SHEET REVISION	BY	DATE	NO.	SHEET REVISION	BY	DATE

COMMONWEALTH OF VIRGINIA — Lic. No. 042267 — 9-13-22 — PROFESSIONAL ENGINEER

WW ASSOCIATES — ENGINEERS SURVEYORS PLANNERS

DESIGNED BY: JDB	PROJECT: CULPEPER STATION — EAST SPENCER STREET PARKING IMPROVEMENTS — TOWN OF CULPEPER, VIRGINIA		SET REV. NO. 3
DRAWN BY: JDB			
DIHR BY: HFW	TITLE: SITE LAYOUT PLAN		DRAWING NUMBER: C-6
WWA NUMBER: 220047.00	FILE NAME: 004700C_SP-1.dwg	DISCIPLINE: CIVIL — SCALE: H: 1"=30' V: N/A	DATE: 10/15/2021