

for the

OLD TOWN SUBSTATION REBUILD PROJECT

(Connecticut Siting Council Docket No. 490)

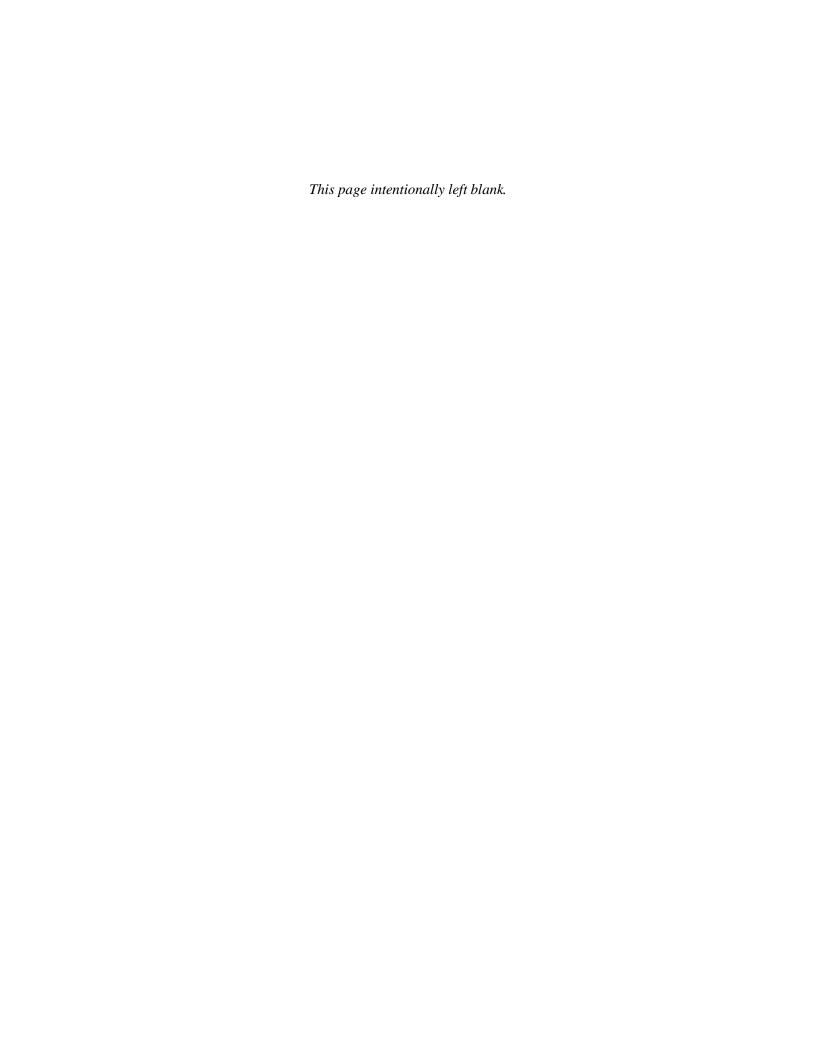
City of Bridgeport Fairfield County, Connecticut

<u>VOLUME 2:</u> Project Mapping and Drawings

December 2024

Prepared By:

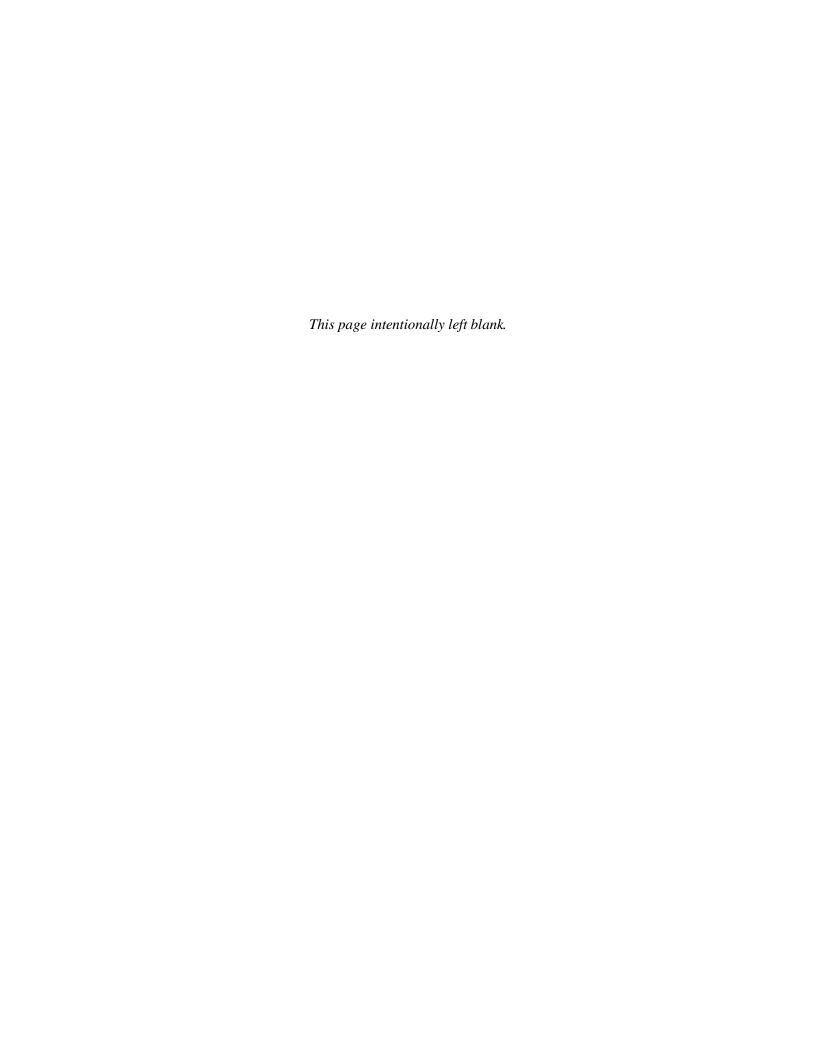
THE UNITED ILLUMINATING COMPANY



VOLUME 2:

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•		
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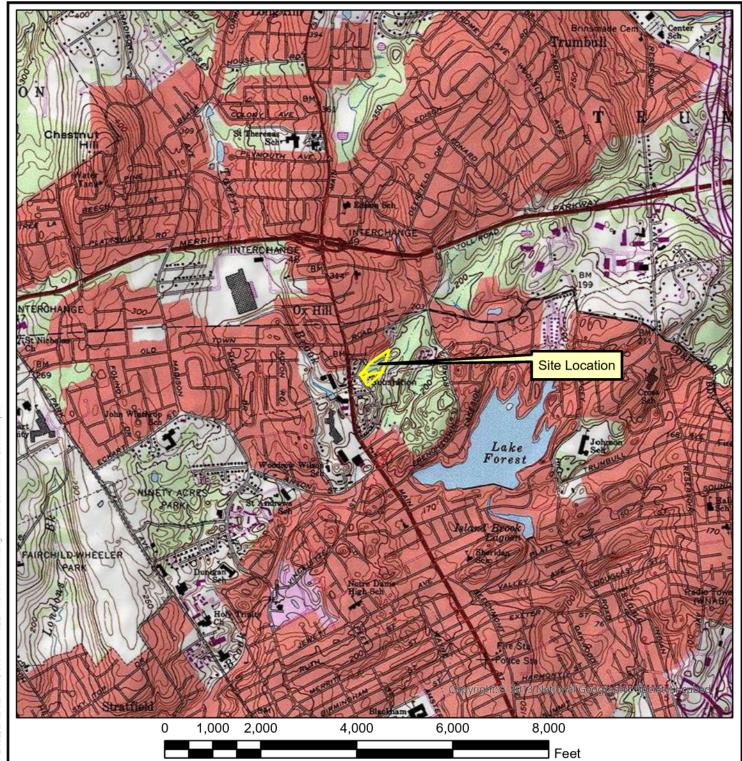
<u>VOLUME 2:</u> Project Mapping and Drawings

SECTION 2A

Overview Maps:

USGS Map	Fig. 1
Aerial Overview	Fig. 2





USGS Quadrangle Information
Quad ID: 41073-B2
Name: Bridgeport, Connecticut
Date Pub: 1985
Date Rev: 1982
Map Edit: 1

1 inch = 2,000 feet

Attachment 2.A
USGS Map
Figure 1
280/312/330 Kaechele Place
Bridgeport, Connecticut
HRP# AVA4015.EE
Scale 1" = 2,000'



MOVE YOUR ENVIRONMENT FORWARD

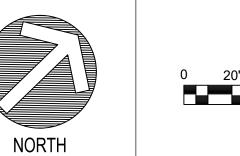
197 SCOTT SWAMP ROAD FARMINGTON, CT 06032 (860) 674-9570 HRPASSOCIATES.COM

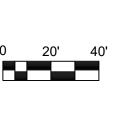


MOVE YOUR ENVIRONMENT FORWARD

197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032
(860) 674-9570

HRPASSOCIATES.COM





	KEV	/1310N3		
NO.	DATE	DESCRIPTION		

DESIGNED:	SCALE:
SNC, LTD.	1" = 40'
DRAWN:	ISSUE DATE:
ASB	12/16/2024
REVIEWED:	PROJECT NUMBER:
TRB	AVA4015.EE
APPROVED:	SHEET SIZE:
TRB	24"x36"

THE UNITED ILLUMINATING - OLD TOWN SUBSTATION REBUILD

280 KAECHELE PL, BRIDGEPORT, CT 06606 ATTACHMENT 2.A AERIAL OVERVIEW FIGURE

2



for the

OLD TOWN SUBSTATION REBUILD PROJECT

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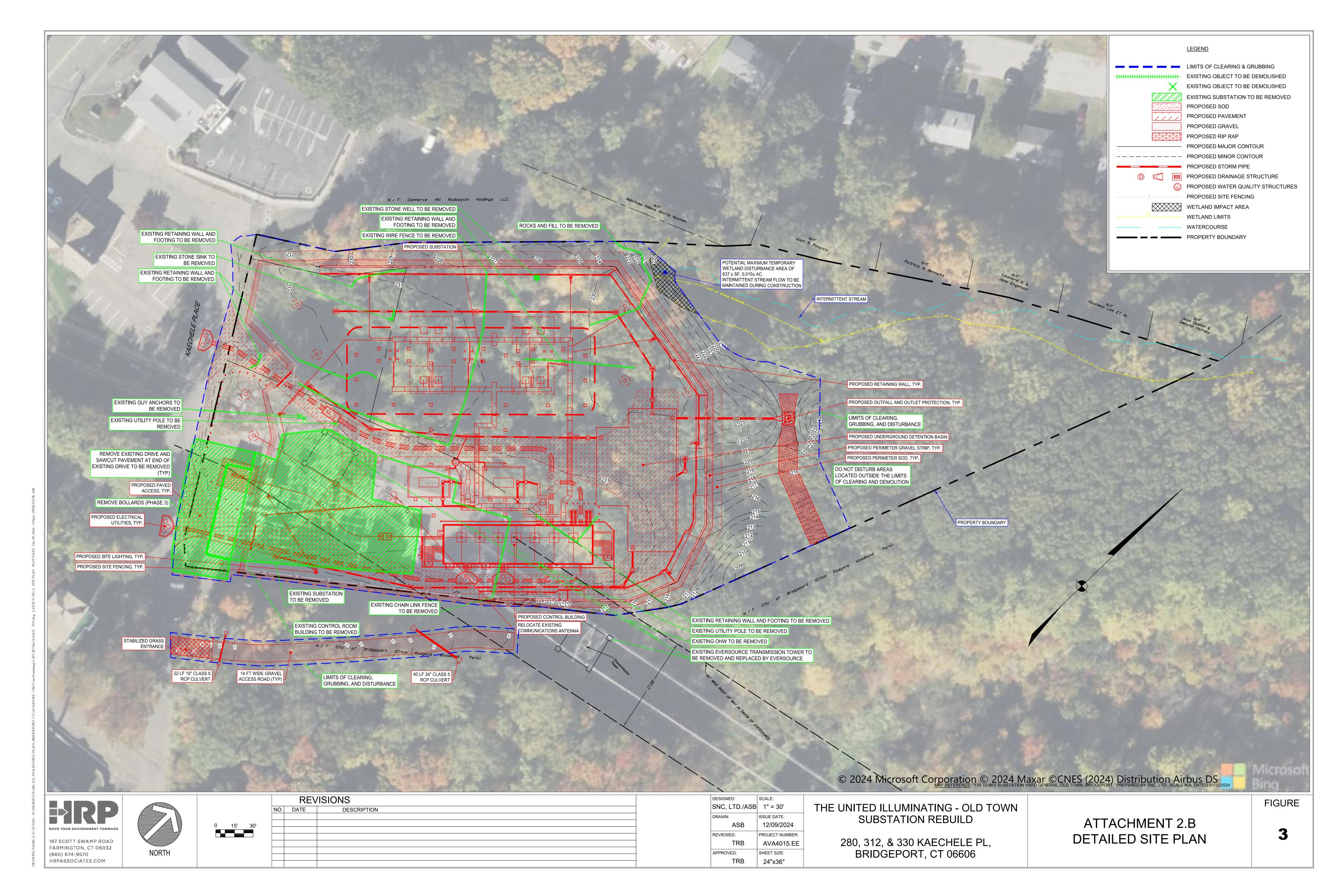
<u>VOLUME 2:</u> Project Mapping and Drawings

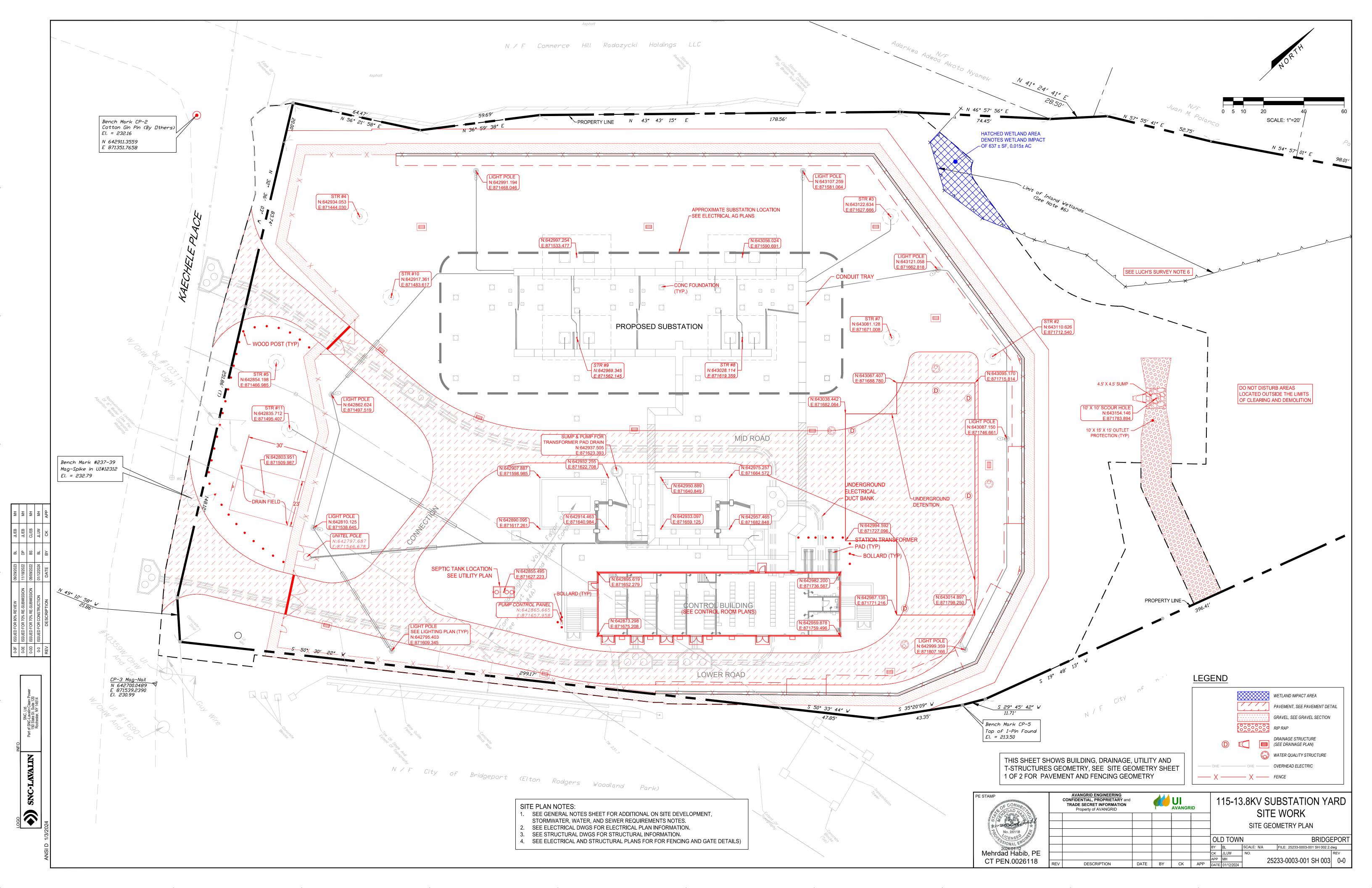
SECTION 2B

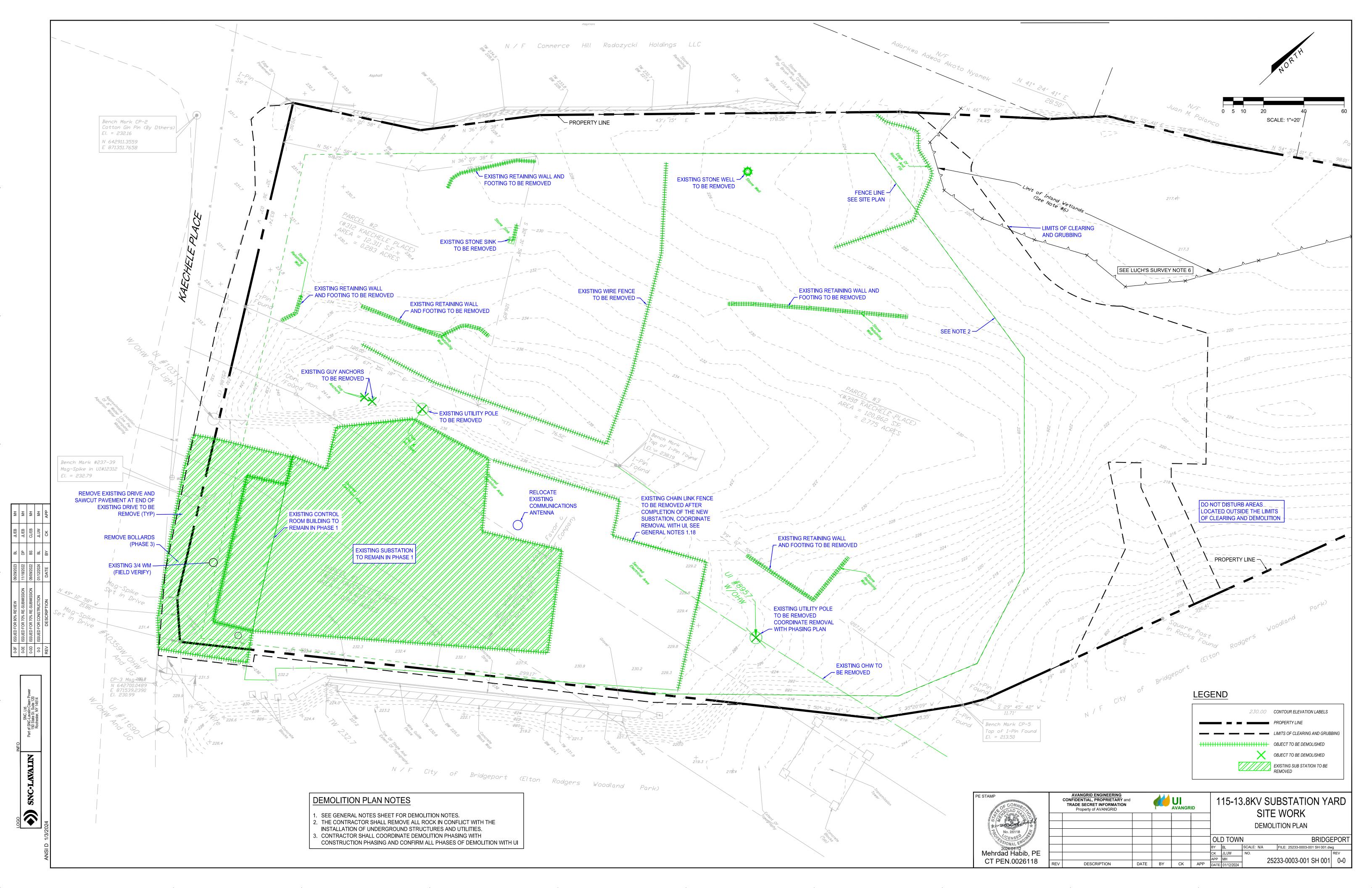
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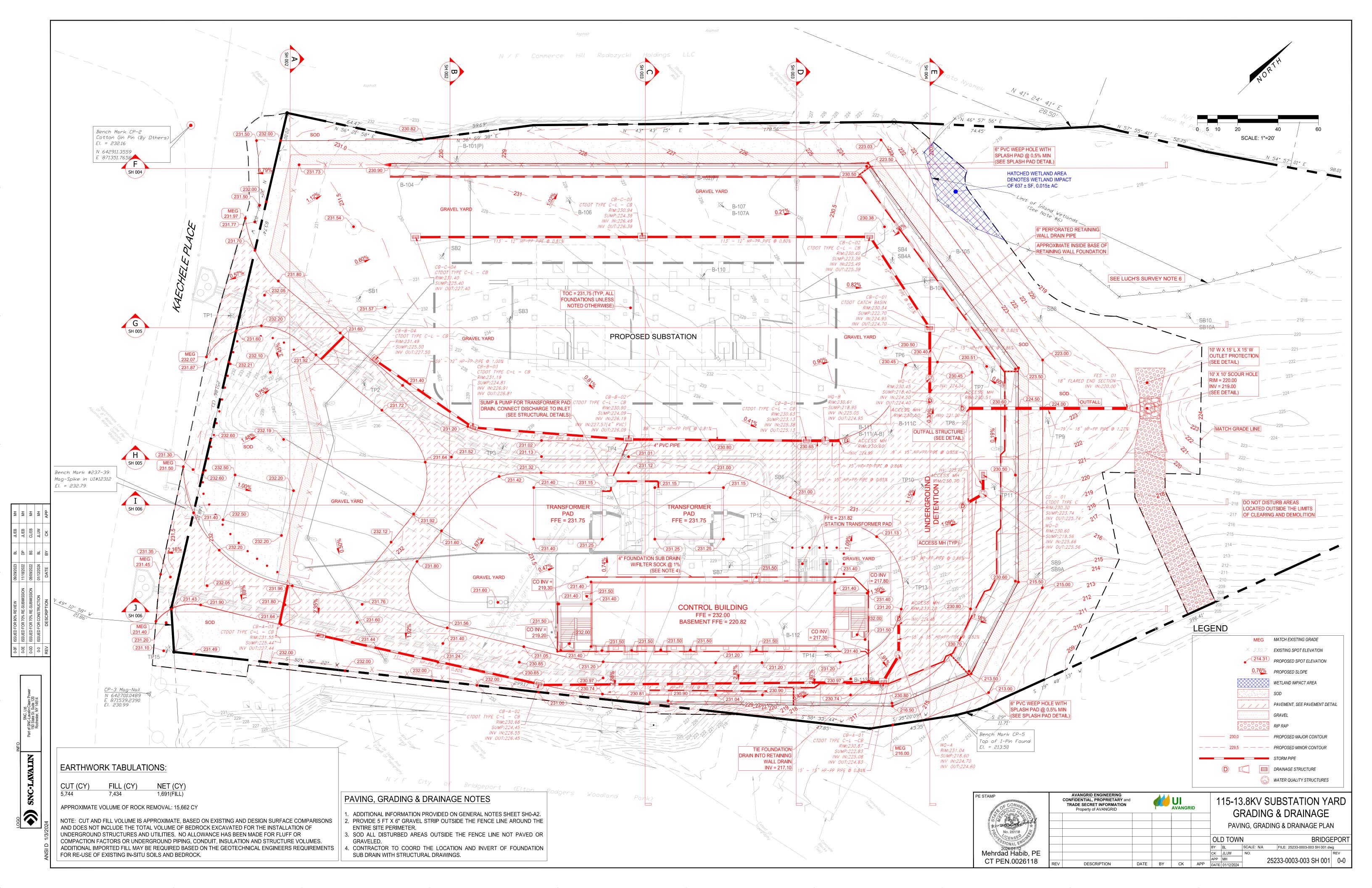
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Details	D1. 2

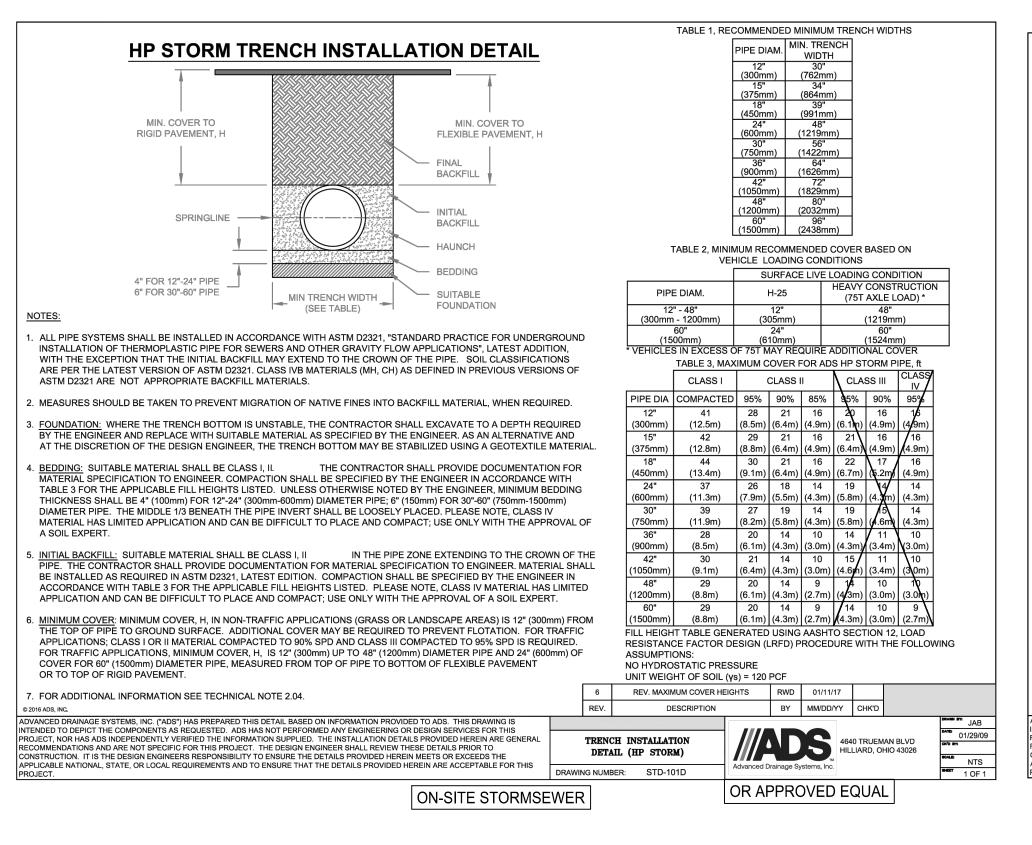


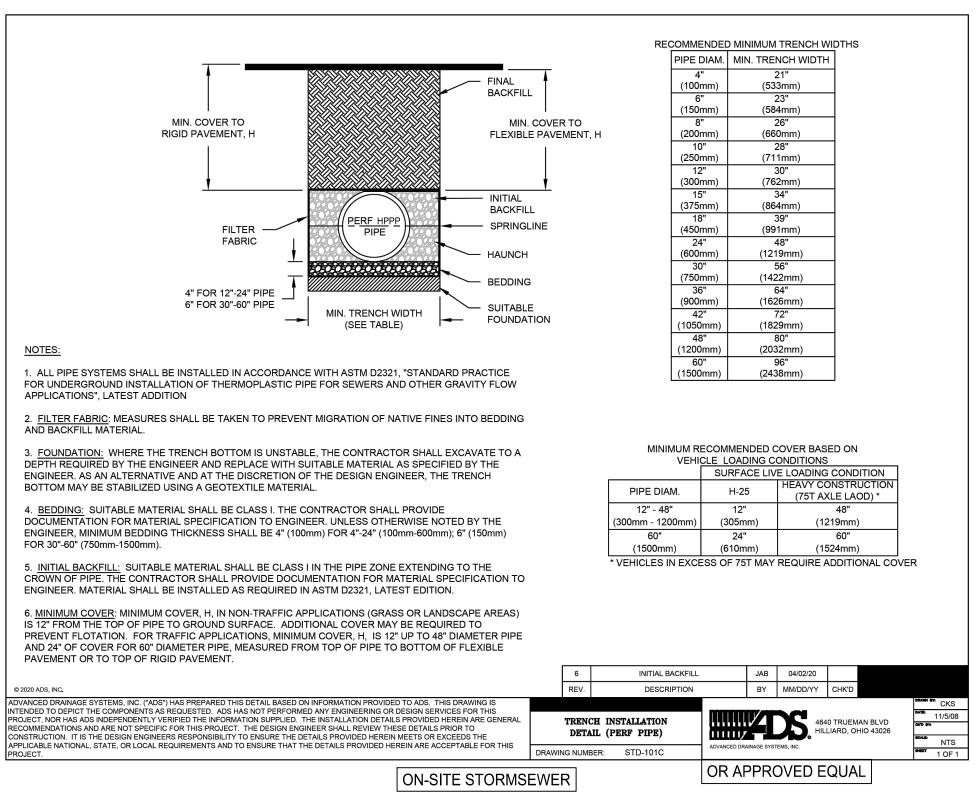


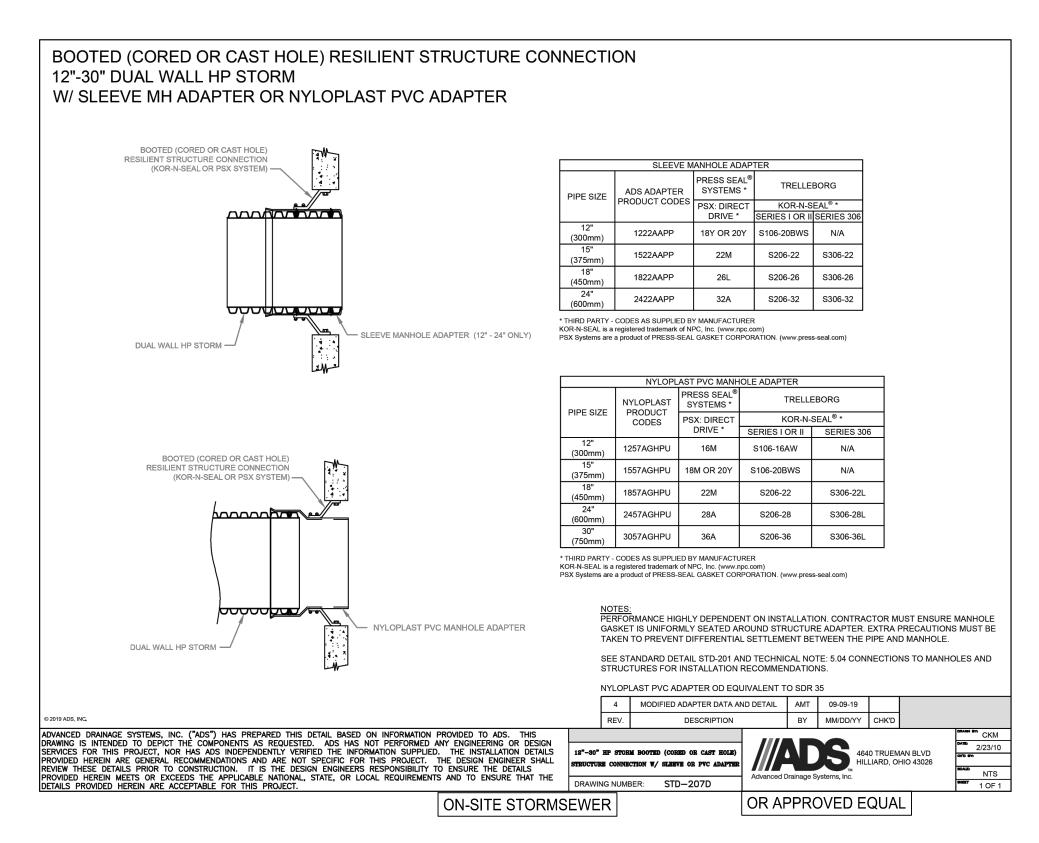


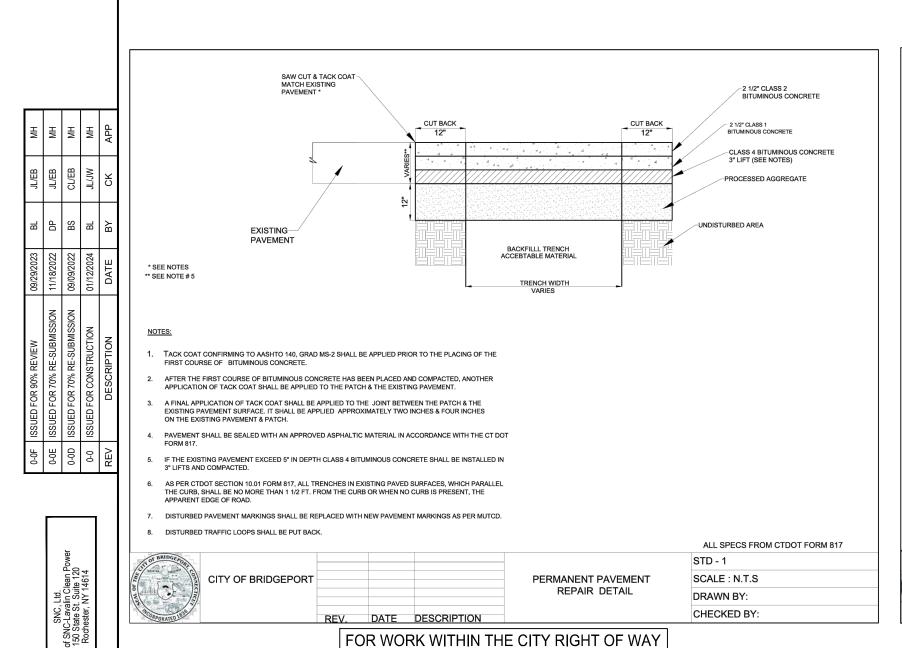


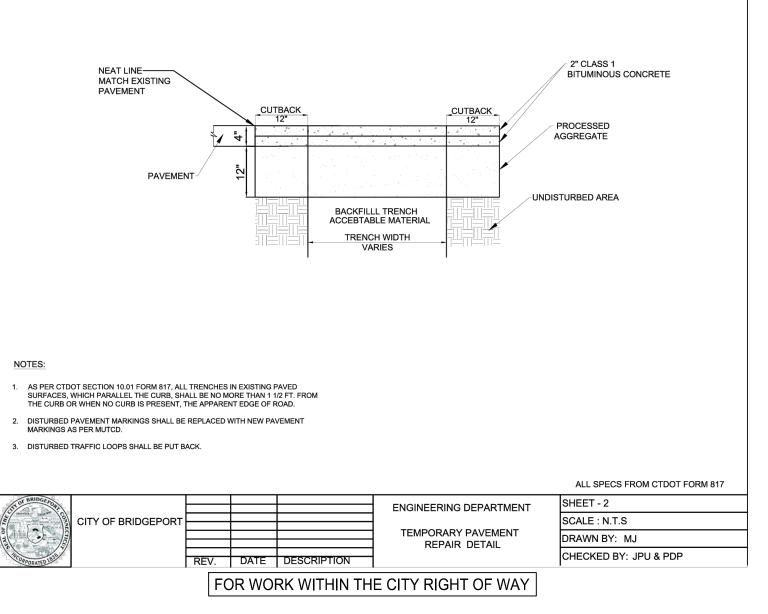


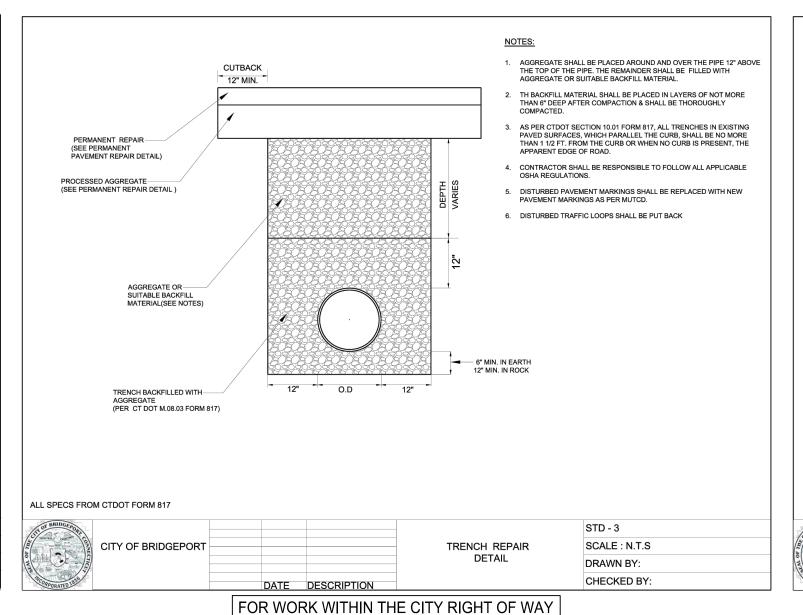


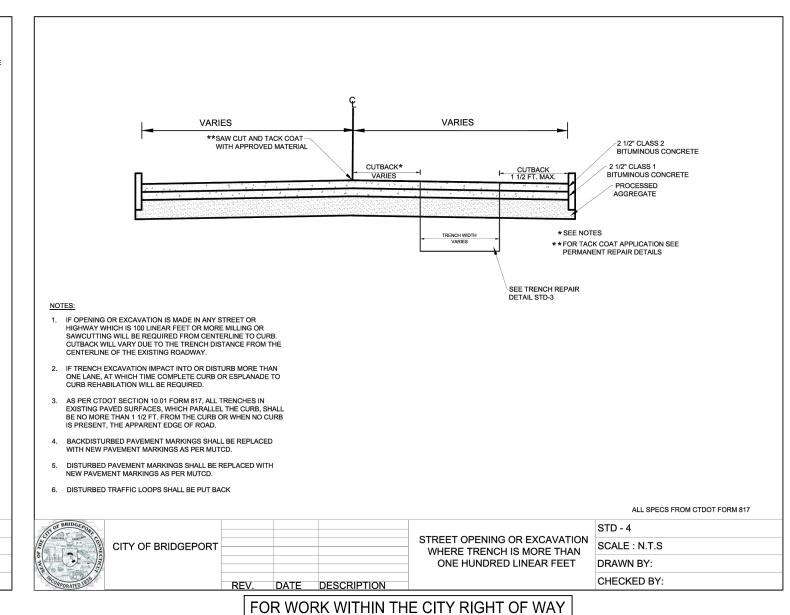


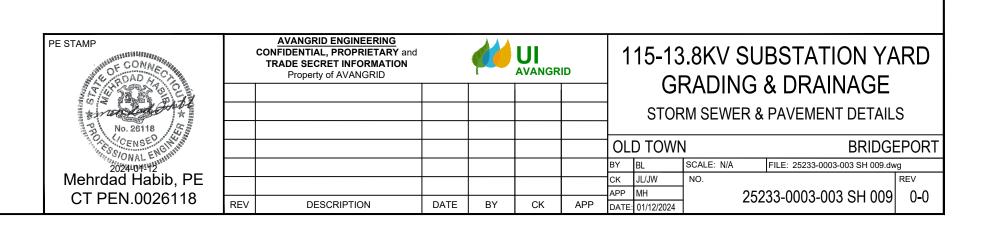


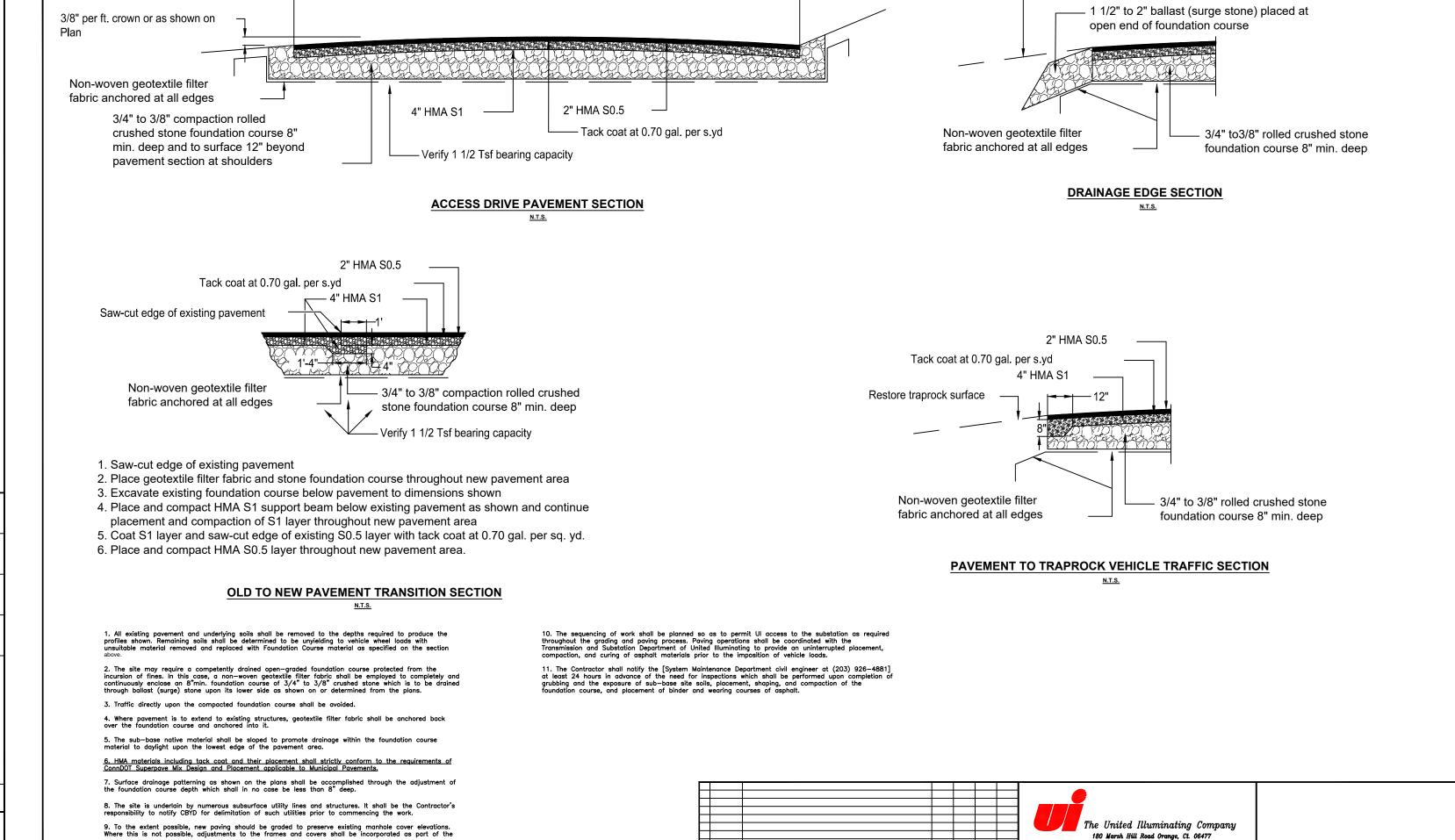












UNITED ILLUMINATING PROPERTY PAVING DETAILS

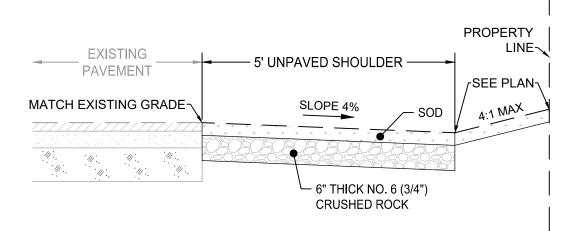
Restore traprock surface if applicable

180 Marsh Hill Road Orange, Ct. 06477

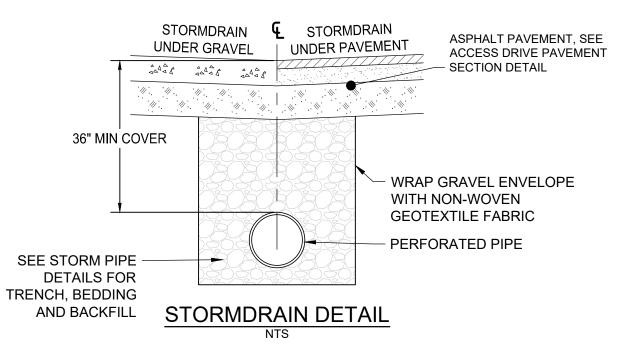
By Chkd. Eng. Supv. Chkd. Design Engr. V. PALMIERI Design Supv. Chkd.

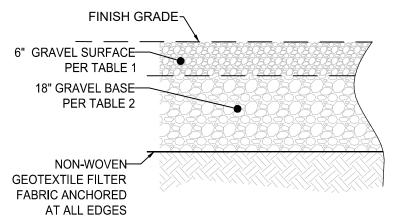
Varies

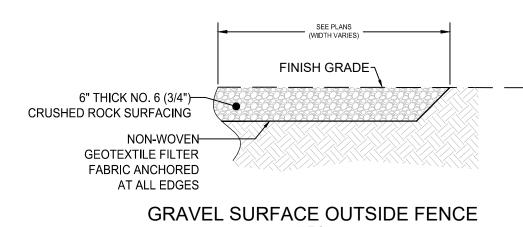
See Plan







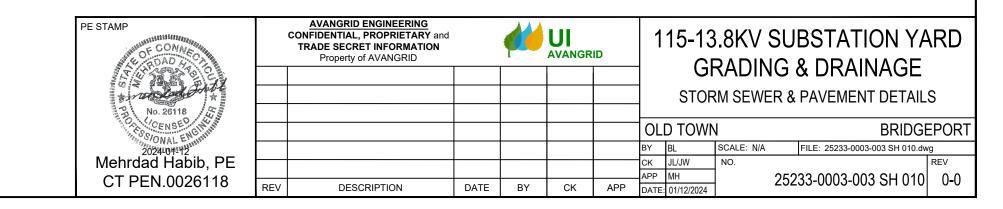




UNPAVED GRAVEL SURFACE INSIDE YARD

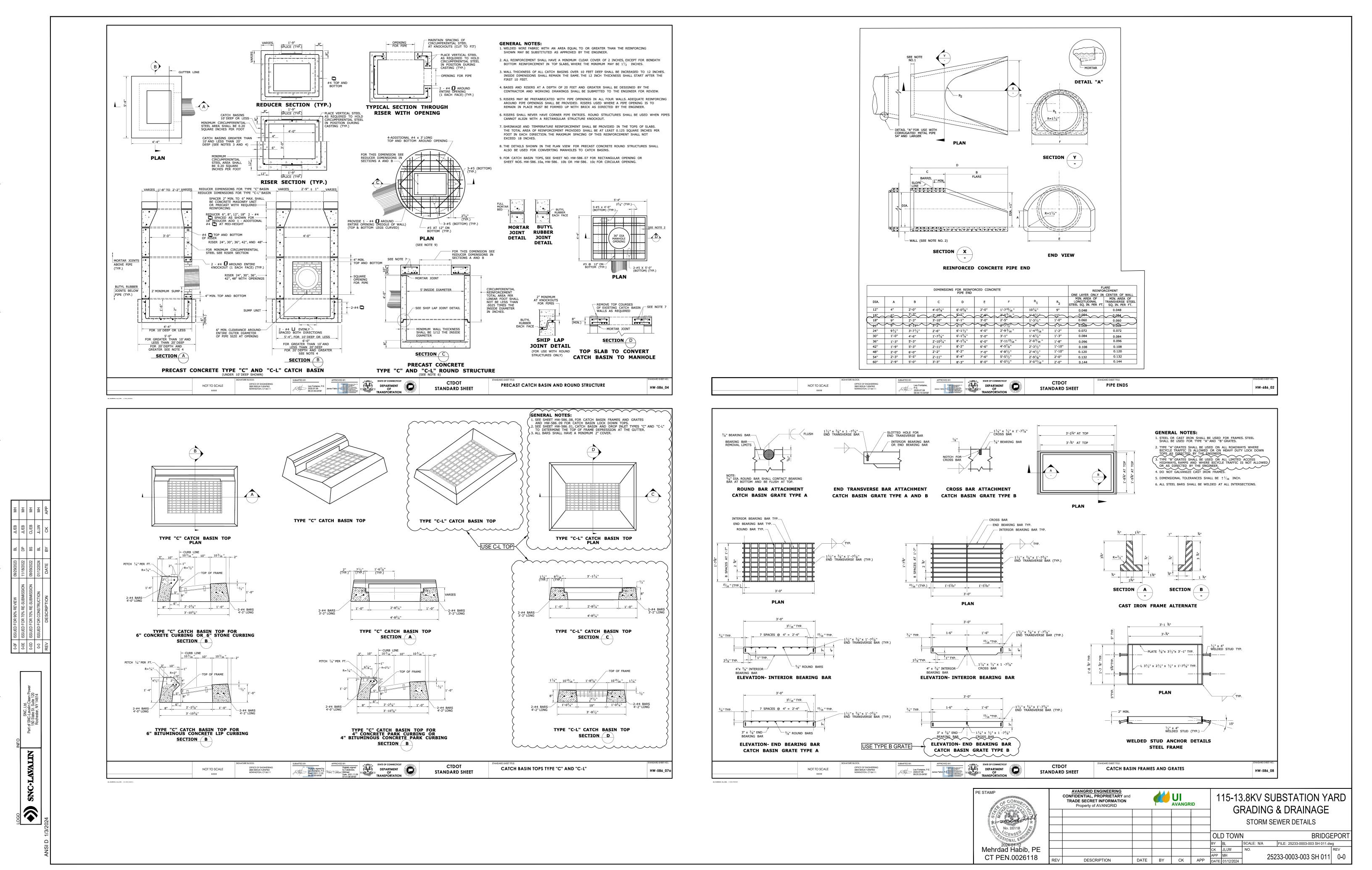
TABLE 1 GRAVEL SURFACE			TABLE 2	GRAVEL BASE
US Standard	Percent by Weight		US Standard	Percent by Weight
Sieve Size	Passing Sieve		Sieve Size	Passing Sieve
2"	100		2"	100
1/2"	45-70		1-1/2"	90-95
1/4"	30-55		1/2"	45-70
#40	0-20		1/4"	30-55
#200	0-5		#40	0-20
			#200	0-5

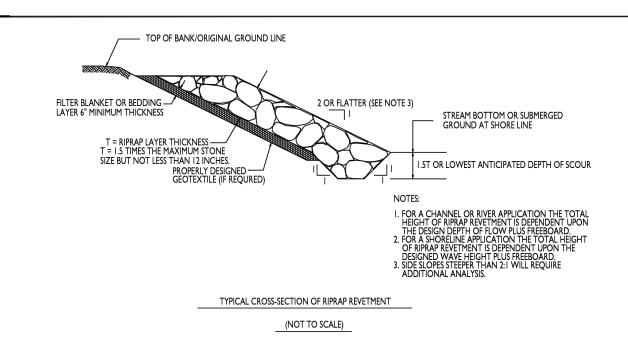
SOURCE: AVANGRID TECHNICAL STANDARD TM2.71.09 YARD AND FENCING STANDARD



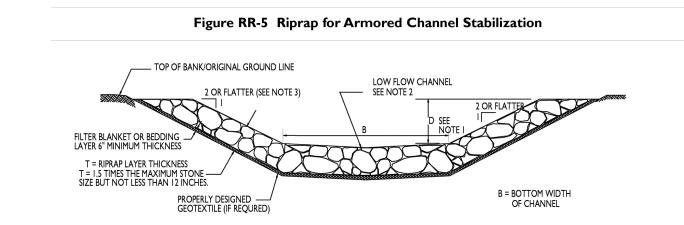
四 B B B B

SNC-LAVALIN





Source: USDA-NRCS



TYPICAL CROSS-SECTION OF RIPRAP LINED CHANNEL

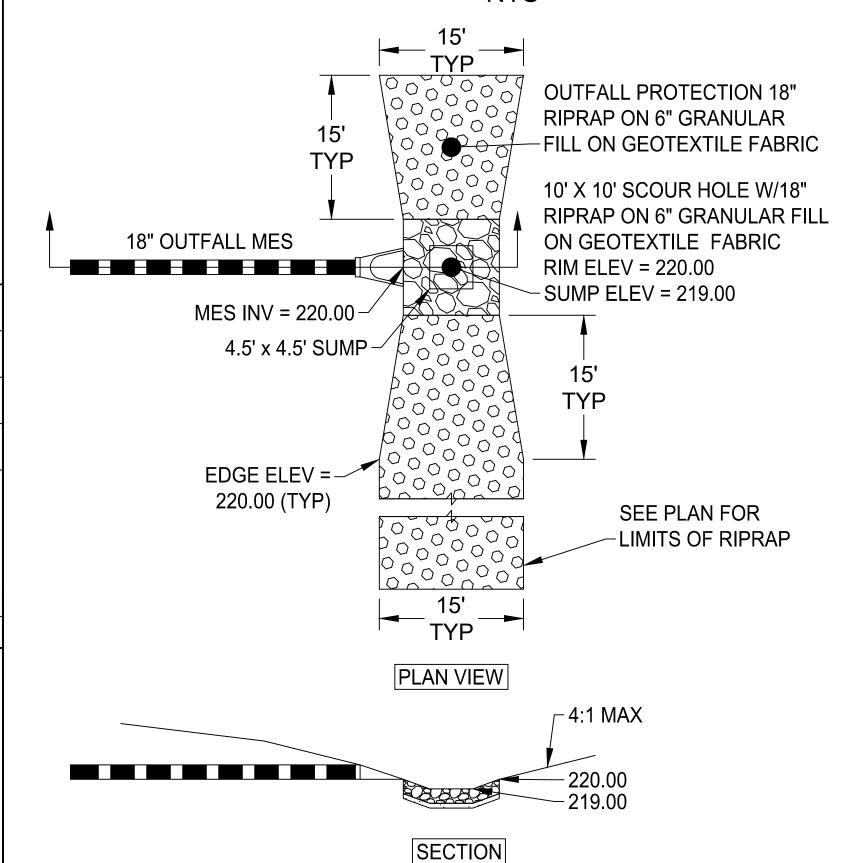
NOTE:

1. THE TOTAL HEIGHT OF RIPRAP LINING IS DEPENDENT UPON THE DESIGN DEPTH OF FLOW PLUS RUNUP DUE TO CHANNEL CURVATURE, PLUS FREEBOARD.

2. IN CHANNELS WITH SIGNIFICANT BOTTOM WIDTHS, LOW FLOW CHANNELS MAY BE INCORPORATED IN THE TEMPLATE.

3. SIDE SLOPES STEEPER THAN 2:1 WILL REQUIRE ADDITIONAL ANALYSIS.

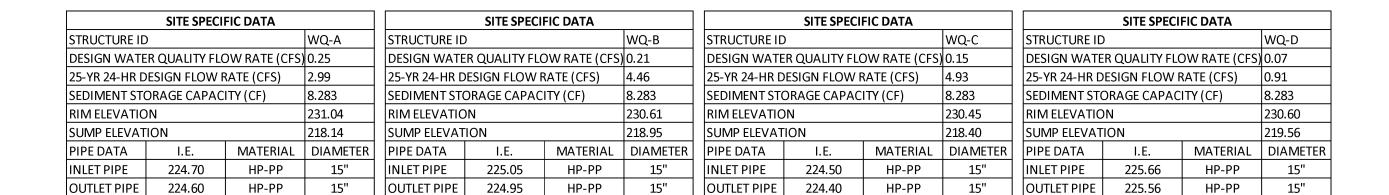
RIP RAP FOR OUTFALL PROTECTION

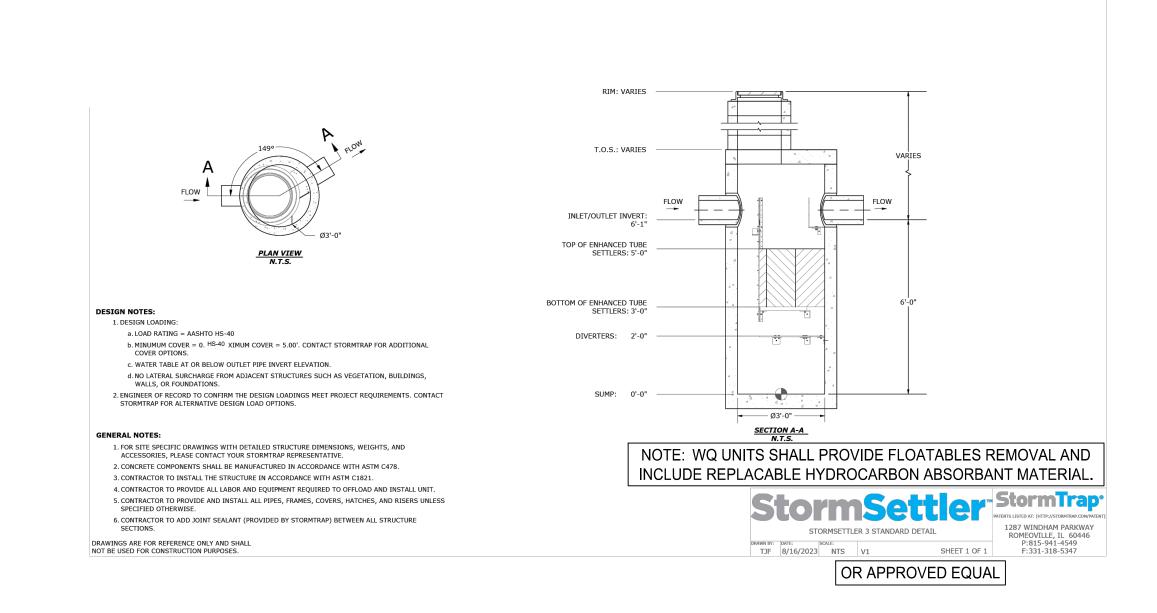


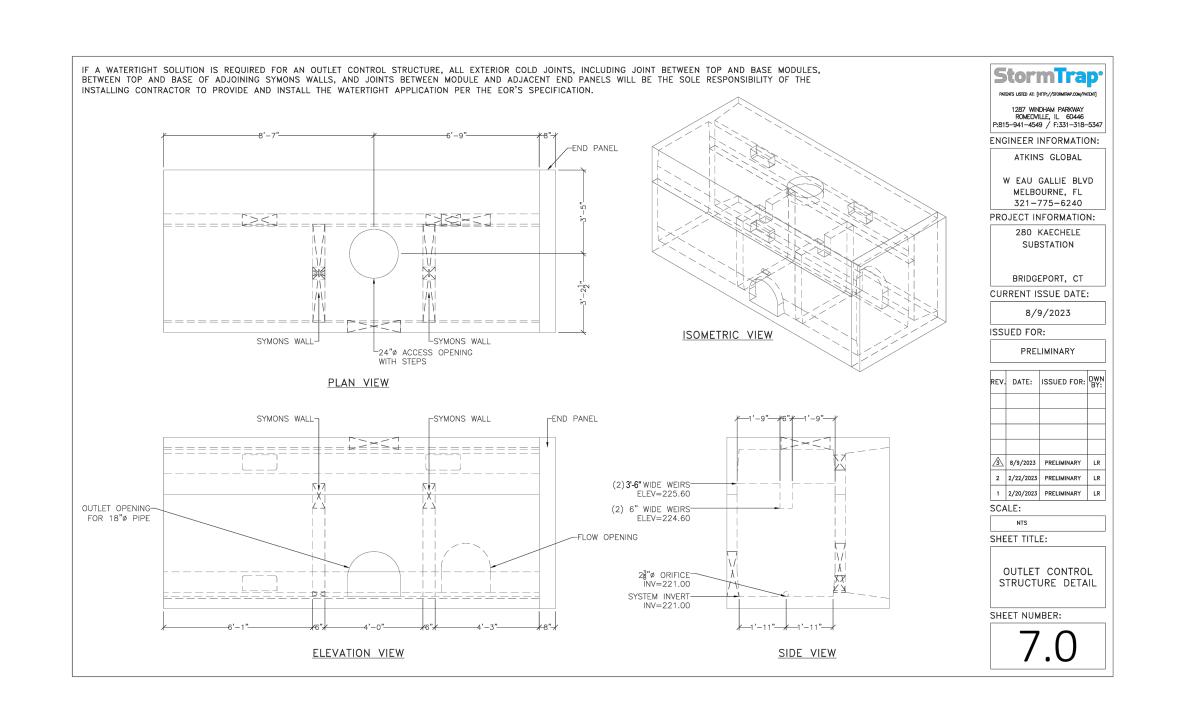
NOTES:

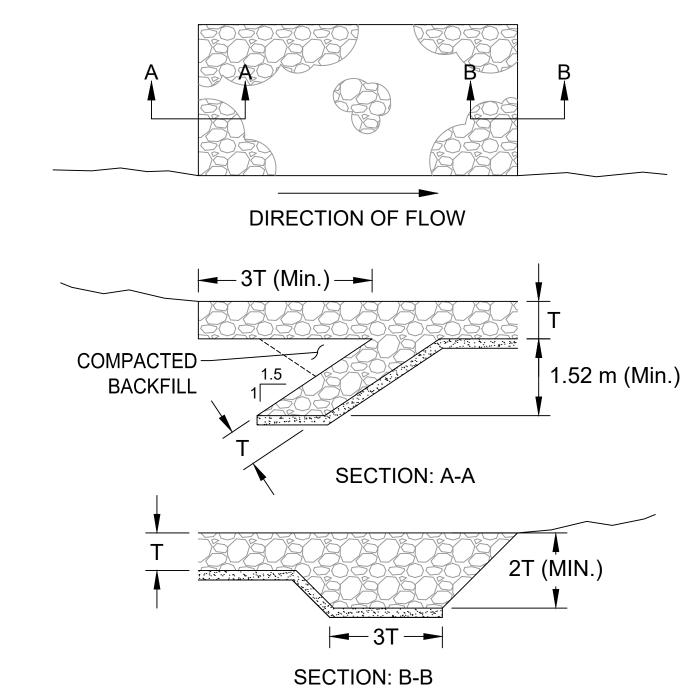
- I. TOE IN ALL EDGES OF GEOTEXTILE FABRIC
- 2. RIP RAP SHALL BE INTERMEDIATE (0.42 FT < d50 < 0.67 FT)
- 3. GRANULAR FILL PER GEOTECHNICAL REPORT AND CT DOT SPECIFICATIONS FOR GRANULAR FILL MATERIAL
- 4. GEOTEXTILE PER GEOTECHNICAL REPORT AND CT DOT QPL, CLASS A

OUTLET PROTECTION DETAIL



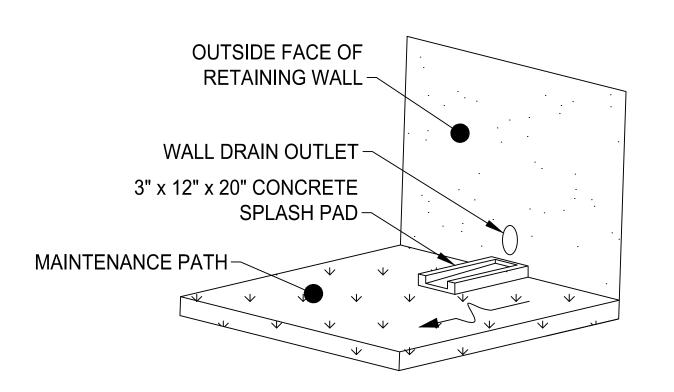






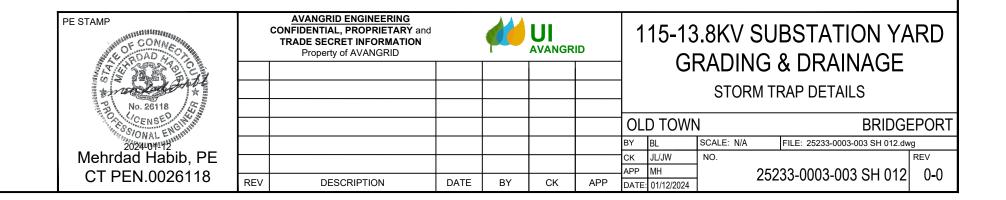
TYPCAL RIPRAP INSTALLATION: PLAN AND FLANK DETAILS

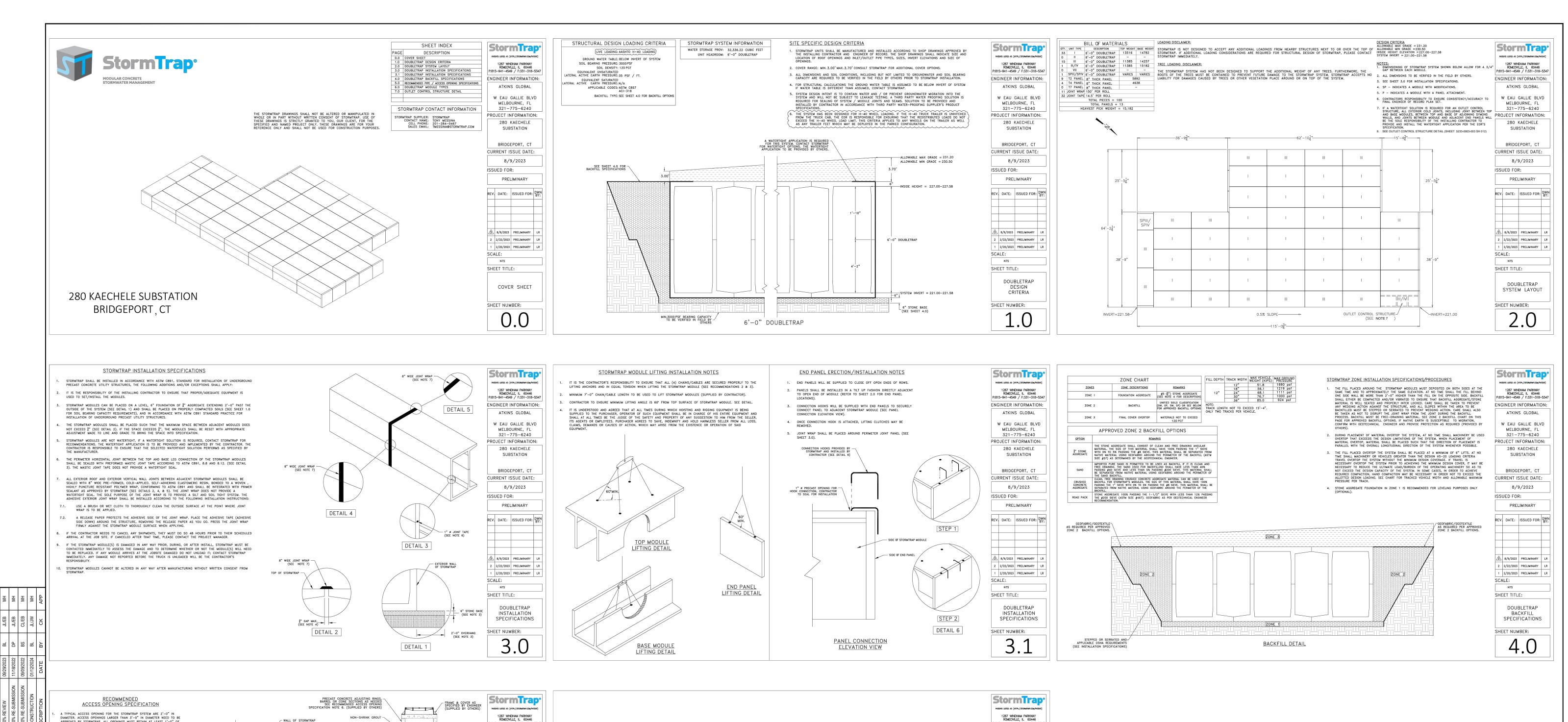
FOR GENERAL RIPRAP USE NOT OTHERWISE DETAILED

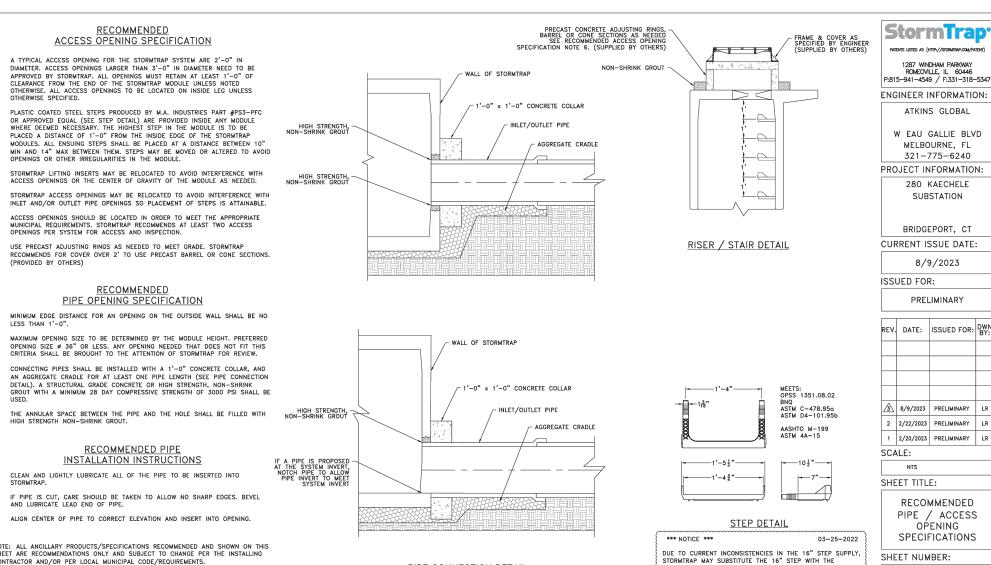


SPLASH PAD DETAIL

(SET SPASHPAD BELOW DRAIN INVERT AND MATCH MAINTENANCE PATH CROSS SLOPE)





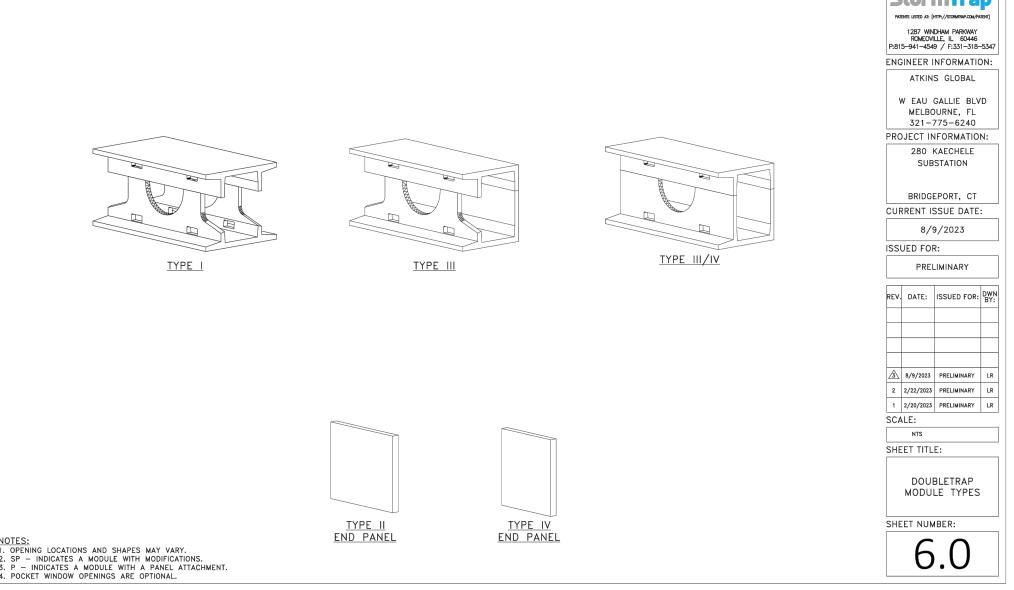


PIPE CONNECTION DETAIL

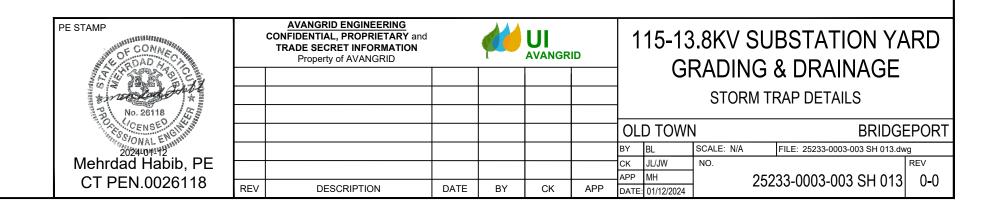
SUBSTATION

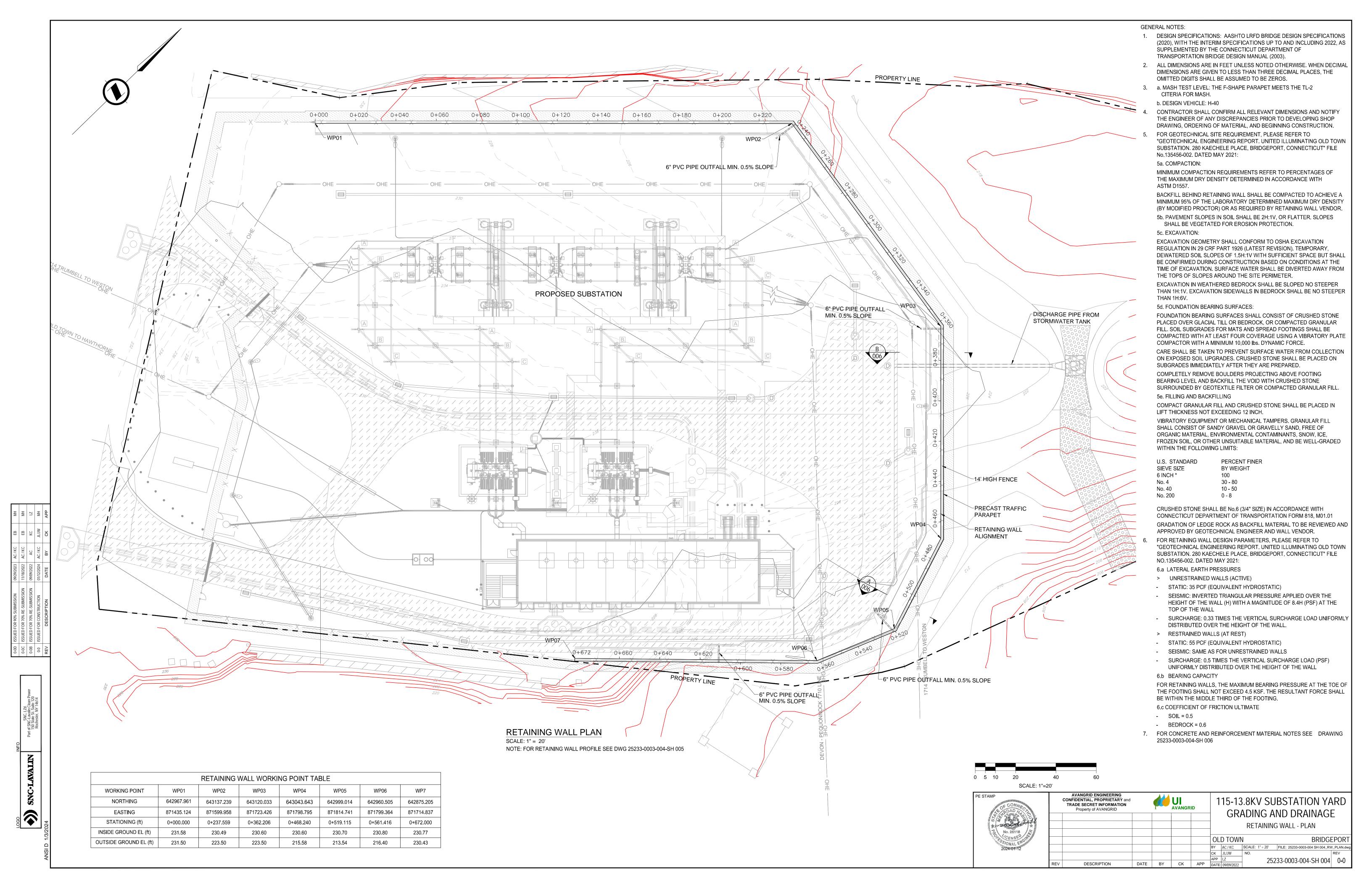
8/9/2023

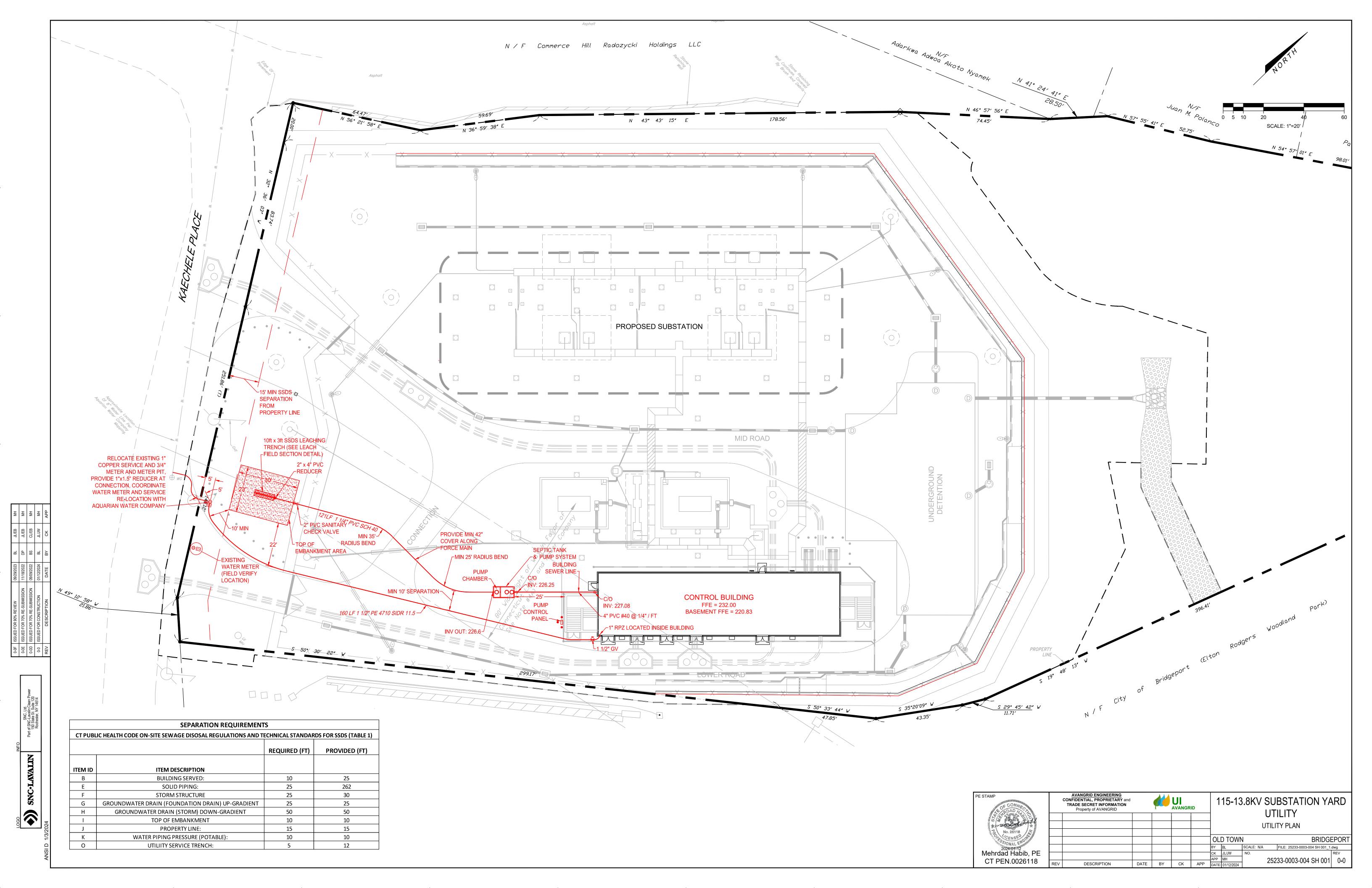
OPENING



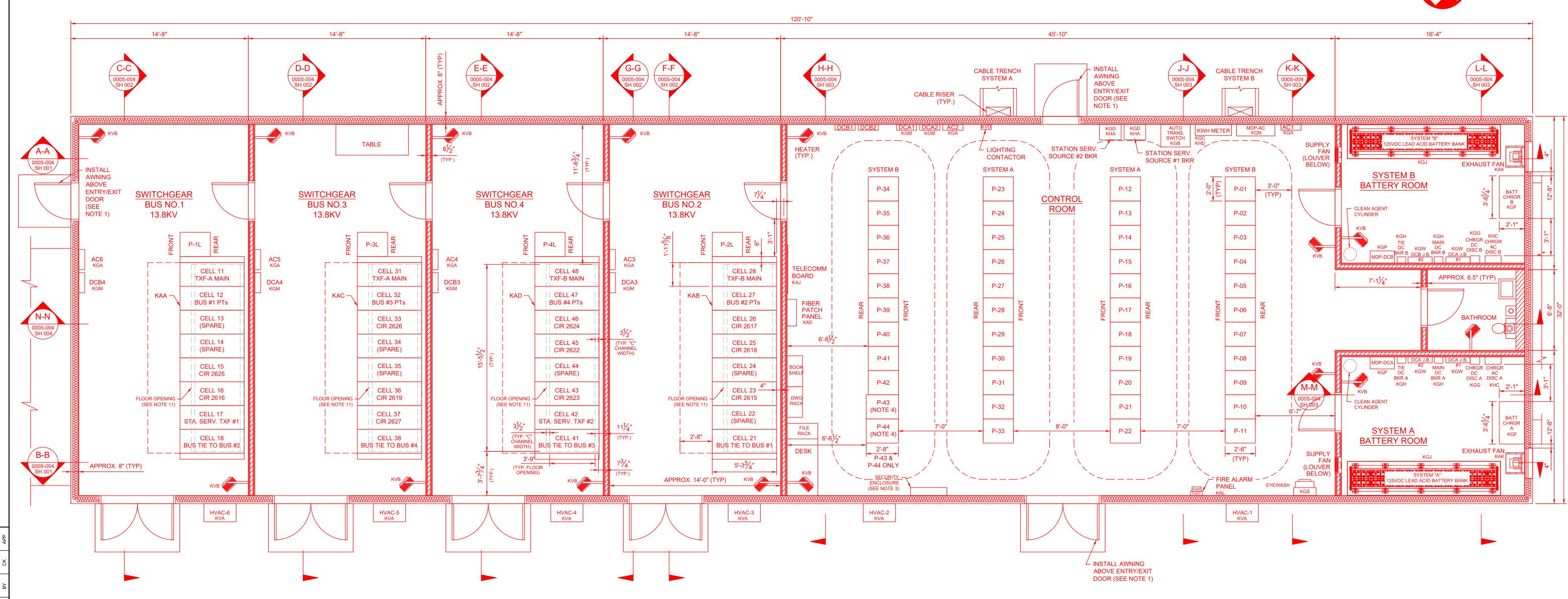
1. THE DETENTION CHAMBER SHALL BE WRAPPED WITH AN APPROVED IMPERMEABLE ULTRAVIOLET RESISTANT POLY-LINER, 30 MILS MINIMUM THICKNESS











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

NOTES:

- 1. OVERHEAD AWNINGS SHALL BE PROVIDED AND INSTALLED BY PARKLINE ONLY ABOVE CONTROL ROOM EXIT DOUBLE DOOR, SINGLE DOOR AND SWITCHGEAR #1 ROOM
- 2. ALL OTHER DOUBLE DOORS SHALL HAVE TRANSOMS AS SHOWN IN THE ELEVATION
- 3. SECURITY TO INSTALL WALL-MOUNT ENCLOSURE, 36" X 36" X 8", HOFFMAN CAT. # CSD36368, WITH PANEL CAT. #CP3636G. 4. SECURITY TO INSTALL SECURITY CABINETS SIZED 84"H X 24"W X 32"D IN RELAY PANEL
- POSITIONS P-43 & P-44.
- FOR MATERIAL MARKS (E.G. KAA) SEE BOM 25233-0012-003. 6. ALL ELECTRICAL EQUIPMENT TO BE GROUNDED.
- CONTRACTOR TO PROVIDE AND ROUTE ALL CONDUIT FOR INTERIOR AND EXTERIOR LIGHTING AND RECEPTACLES AND SHALL BE MINIMUM 3/4" RGS, UNLESS OTHERWISE
- 8. CONTRACTOR TO PROVIDE SUPPORT FOR EQUIPMENT UNLESS OTHERWISE NOTED. 9. CABLE TRAYS TO HAVE A CONTINUOUS 4/0 COPPER GROUND CABLE RUN THE ENTIRE LENGTH AND BONDED TO EACH SECTION WITH A MAXIMUM OF 5'-0" BETWEEN
- ATTACHMENTS. SEE 5-7 SH 1 FOR CONTROL HOUSE GROUNDING PLAN. 10. INTERIOR AND EXTERIOR WALL OPENINGS SHALL BE SEALED AROUND CABLES, CONDUITS, CABLE TRAY, AND CABLE BUS WITH FIRE PILLOWS AND/OR FIREPROOF
- EXPANDING FOAM UNLESS OTHERWISE NOTED. 11. FLOOR OPENINGS SHOWN ARE TYPICAL FOR EACH SWITCHGEAR ROOM. SEE SWITCHGEAR ROOM BUS NO. 4 FOR TYPICAL DIMENSIONS OF FLOOR OPENINGS FOR SWITCHGEAR CABLE ENTRY.

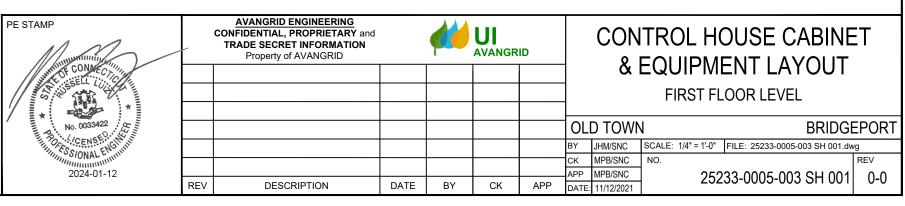
REFERENCE DRAWINGS:

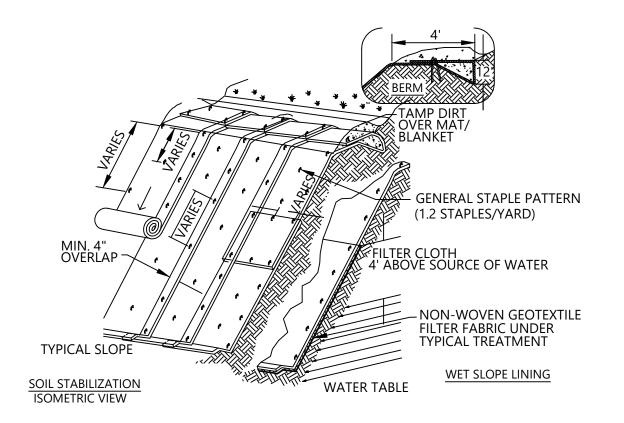
25233-0002-001 SH 002 GENERAL ARRANGEMENT PLAN 115/13.8KV S/S 25233-0005-003 SH 002 CONTROL HOUSE CABINET & EQUIPMENT LAYOUT - BASEMENT LEVEL

25233-0005-004 SH 003 CONTROL HOUSE SECTIONS H-H THRU L-L 25233-0005-005 SH 001 CONTROL HOUSE CABLE TRAY LAYOUT - FIRST FLOOR LEVEL 25233-0005-005 SH 002 CONTROL HOUSE FEEDER CABLE LAYOUT - BASEMENT LEVEL 25233-0005-006 SH 001 CONTROL HOUSE ELECTRICAL PLAN - FIRST FLOOR LEVEL 25233-0005-006 SH 002 CONTROL HOUSE ELECTRICAL PLAN - BASEMENT LEVEL 25233-0005-006 SH 003 CONTROL HOUSE ILLUMINATION PLAN - FIRST FLOOR LEVEL

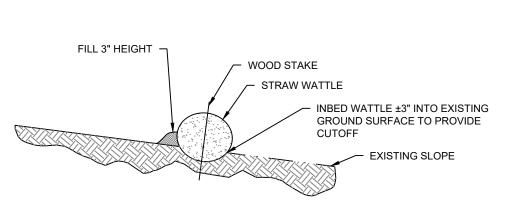
25233-0005-006 SH 004 CONTROL HOUSE ILLUMINATION PLAN - BASEMENT LEVEL 25233-0005-007 SH 001 CONTROL HOUSE GROUNDING PLAN & DETAILS 25233-0005-009 SH 001 CONTROL HOUSE SWITCHGEAR DETAILS

CONTROL HOUSE MATERIALS LIST 25233-0012-003





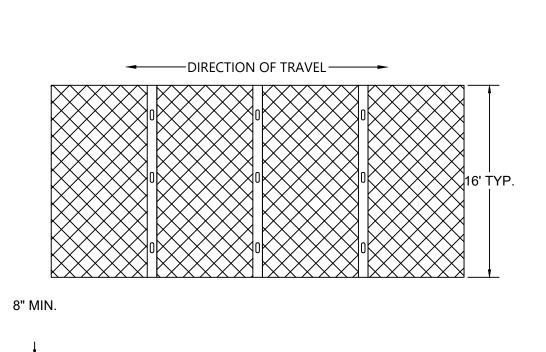
EROSION CONTROL BLANKETS NOT TO SCALE



WATTLE DIMENSIONS DIA 9 - 12 IN

NOTE: IF WATTLE IS PLACED WITHIN A WETLAND, NO IMBEDDING, STAKING, OR FILL WILL BE CONDUCTED DURING INSTALLATION.

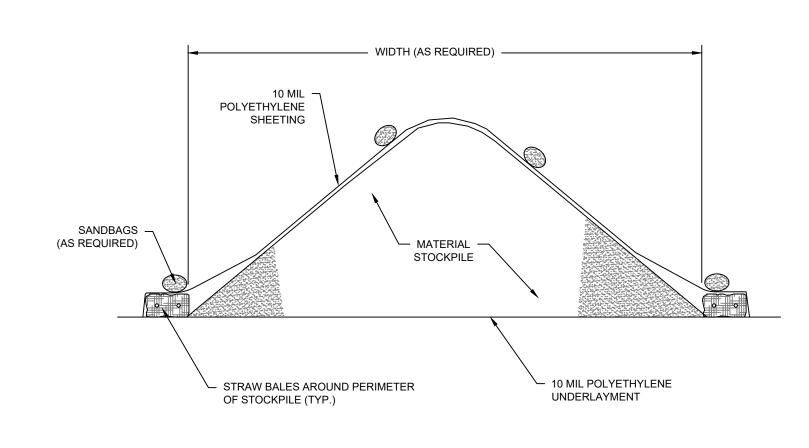
TYPICAL STRAW WATTLE NOT TO SCALE



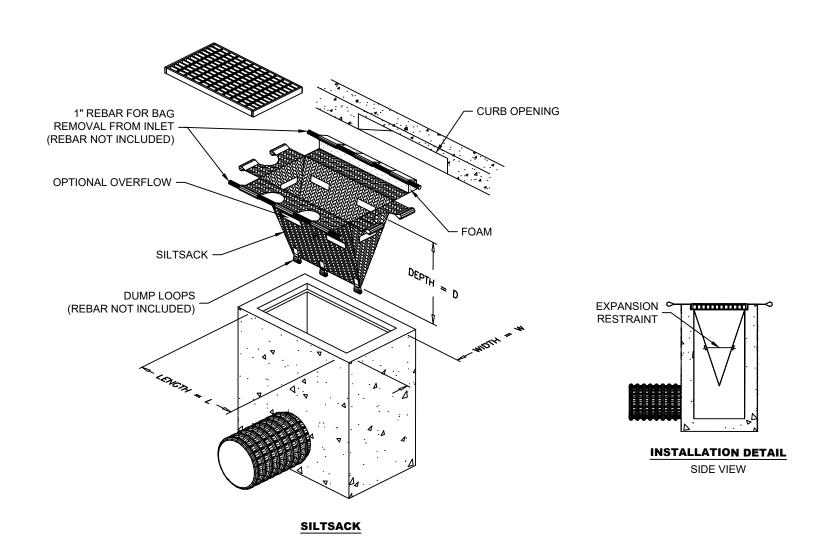
TEMPORARY CONSTRUCTION MATTING NOT TO SCALE

- STRAW BALE DIKE OR BERM 6' (1.8 m) MINIMUM 6'(1.8 m) MINIMUM A -3'(0.9m) A -STONE OUTLET STRUCTURE SECTION A-A FILTER FABRIC - 4" - 6" (10 TO 15 cm) SECTION B-B - 2'-3'(0.6-0.9m) REBAR OR STAKES FOR STRAW BALES MINIMUM 4"(10cm) MIN. DEPTH

DEWATERING BASINS NOT TO SCALE



SEDIMENT CONTROL FOR STOCKPILES **NOT TO SCALE**

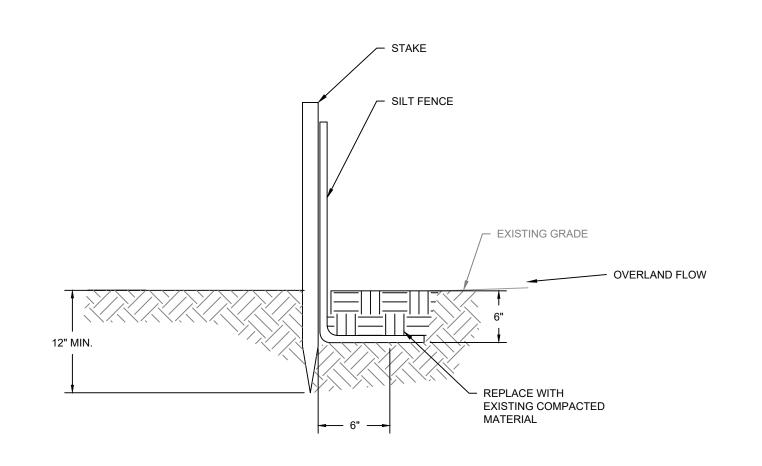


NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE SPECIFICATIONS BELOW.

REGULAR FLOW SILTSACK SPECIFICATIONS (FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUNOFF)

(I CITALLIZE OF LOW TO MODELIVITE	TREOR TRATION AND RONOR	1)
PROPERTIES	TEST METHOD	MIN. REQUIREMENTS
GRAB TENSILE STRENGTH GRAN TENSILE ELONGATION PUNCTURE MULLEN BURST TRAPEZOID TEAR UV RESISTANCE APPARENT OPENING SIZE FLOW RATE	ASTM D4632 ASTM D4632 ASTM D4833 ASTM D3786 ASTM D4533 ASTM D4355 ASTM D4751 ASTM D4491	300 LBS 20% 120 LBS 800 PSI 120 LBS 80% 40 US SIEVE 40 GPM/SF

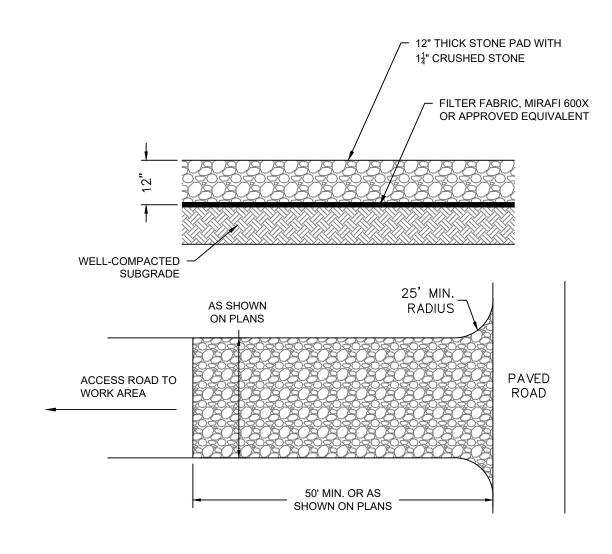
INLET PROTECTION - CATCH BASIN INSERT NOT TO SCALE



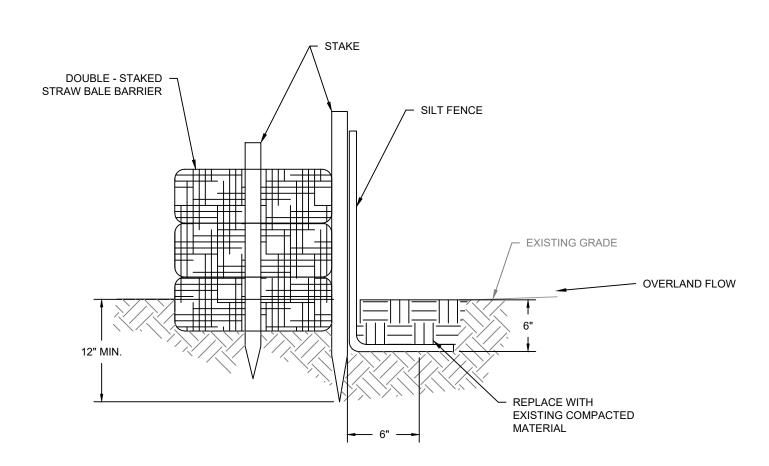
SILT FENCE **NOT TO SCALE**

EXISTING OR -PROPOSED CATCH BASIN GRATE PROVIDE STRAW BALES AROUND ENTIRE CATCH BASIN COVER. ADJOINING BALES SHALL BE BUTTED TWO 2"x2"x3' -WOODEN STAKES TOGETHER AND STAKED. FOR EACH BALE DIRECTION ---→ DIRECTION OF FLOW OF FLOW

INLET PROTECTION - STRAW BALES NOT TO SCALE



CONSTRUCTION ENTRANCE PAD NOT TO SCALE



SILT FENCE BACKED BY STAKED STRAW BALES **NOT TO SCALE**

MAP REFERENCE: "115-13.8KV SUBSTATION YARD EROSION CONTROL, EROSION CONTROL PLAN, OLD TOWN, BRIDGEPORT," PREPARED BY SNC, LTD., SCALE N/A, DATED 01/12/2024



	REV	/ISIONS		
NO	. DATE	DESCRIPTION		

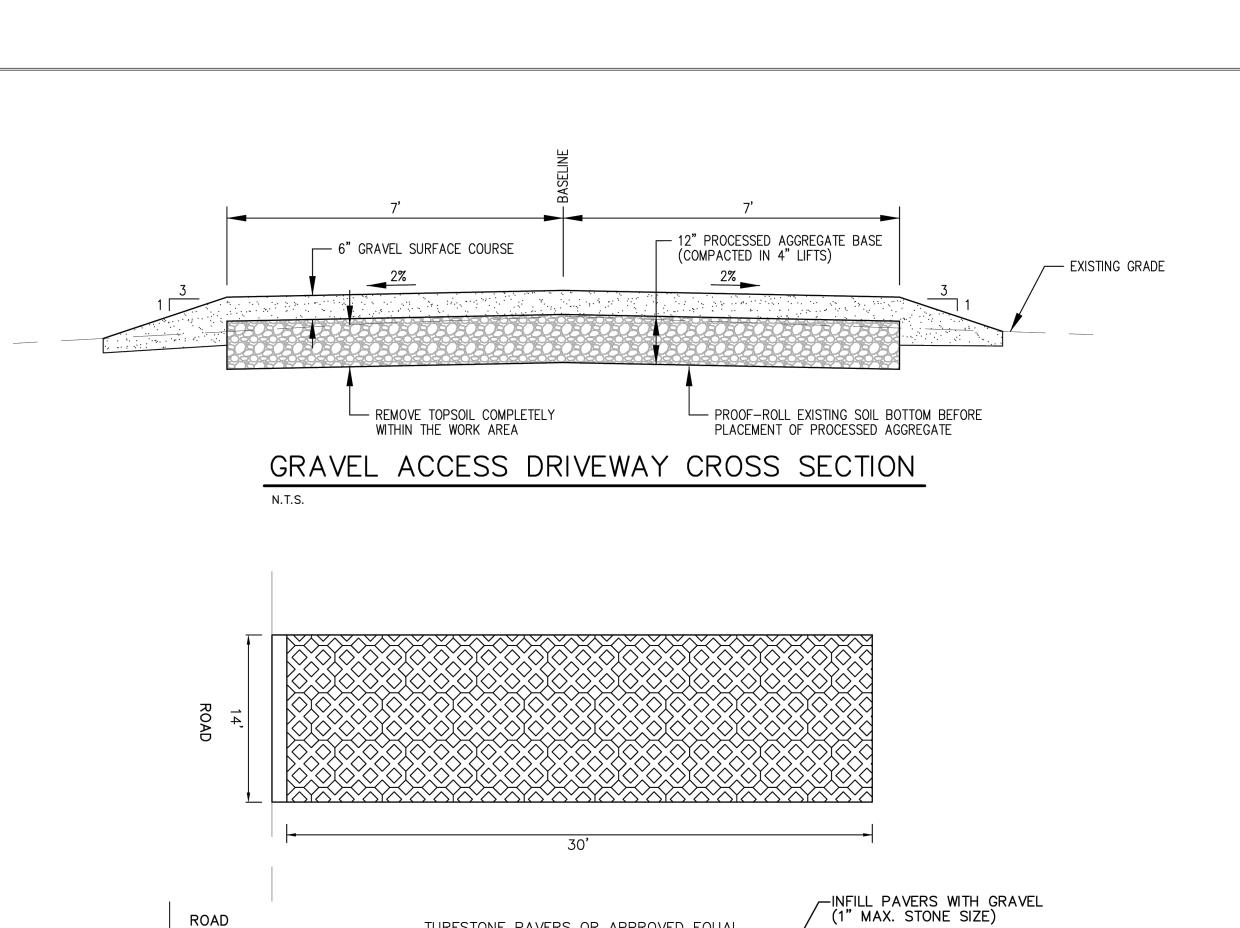
DESIGNED:	SCALE:
ASB	AS NOTED
DRAWN:	ISSUE DATE:
ASB	08/28/2024
REVIEWED:	PROJECT NUMBER:
KAM	AVA4015.EE
APPROVED:	SHEET SIZE:
TRB	24"x36"

THE UNITED ILLUMINATING - OLD TOWN SUBSTATION REBUILD

280 KAECHELE PL, BRIDGEPORT, CT 06606 **DETAILS**

SHEET NO.

D1.1



STABILIZED ACCESS ROAD ENTRANCE PRECAST GRID PAVERS

FILTER FABRIC

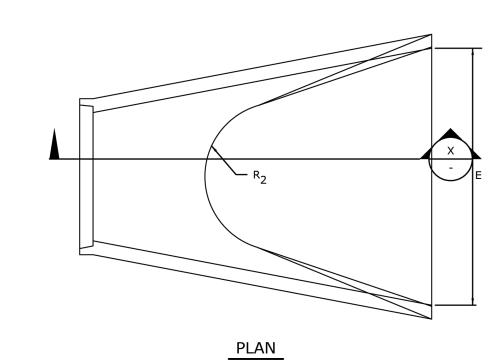
FLUSH CONC. CURB

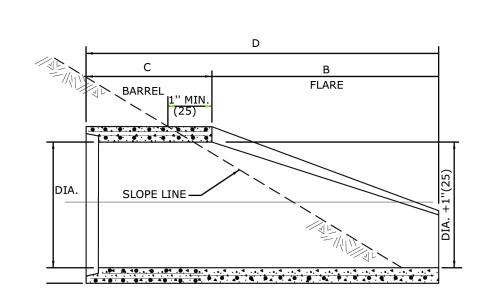
TURFSTONE PAVERS OR APPROVED EQUAL

-1" SAND BED

-2" CHOKER LAYER

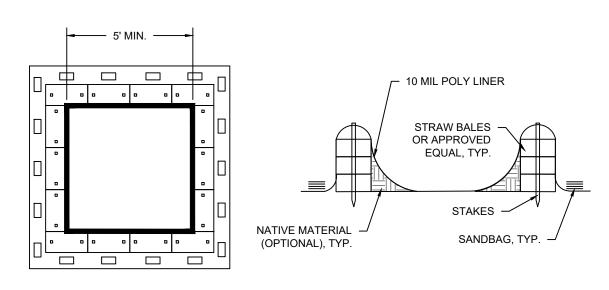
-8" CRUSHED STONE BASE





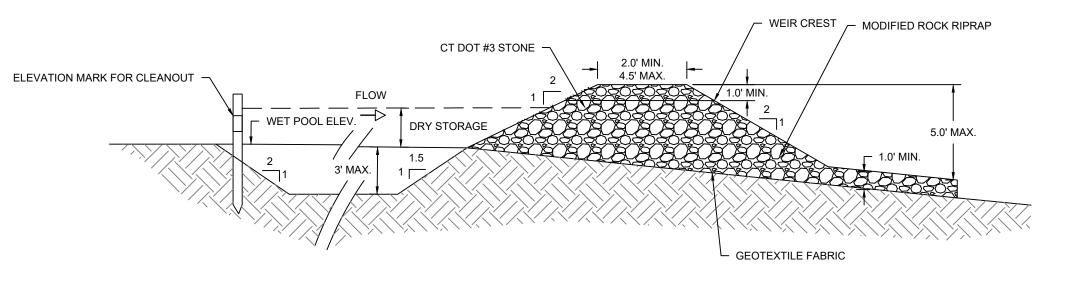
	DIMENSIONS FOR REINFORCED CONCRETE PIPE END							
DIA.	А	В	С	D	E	F	R ₁	R ₂
15''(381)	6"(152)	2'-3''(686)	3'-10"(1168)	6'-1''(1854)	2'-6''(762)	2'-0 ¹⁵ '' (618)	1'-0 ¹ / ₂ '' (318)	11''(279)
24"(610)	9 1 ''(241)	3'-7 5 ''(1105)	2'-6"(762)	6'-1 '' (1867)	4'-0"(1219)	2'-9 ³ / ₁₆ '' (843)	1'-4 13 '' (427)	1'-2"(356)

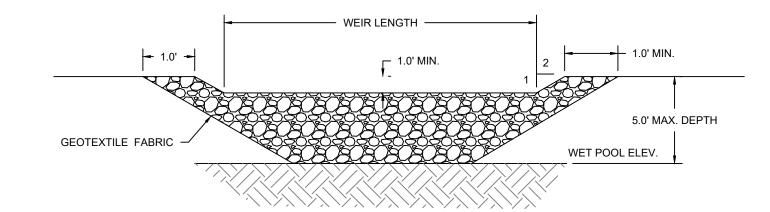
REINFORCED CONCRETE PIPE END



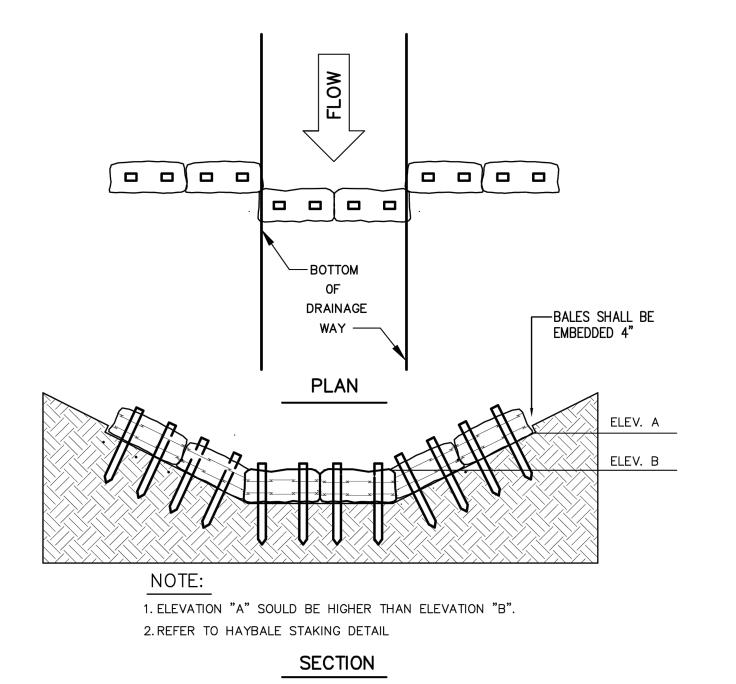
1. CONCRETE WASHOUT AREAS SHALL HAVE IMPERMEABLE LINERS OR SEALED UNITS TO PREVENT INFILTRATION/CONTACT WITH SOIL. WASHOUT AREAS TO BE INSPECTED DAILY FOR LEAKS OR TEARS IF POLY IS USED.
 AN APPROVED ALTERNATIVE MAY BE USED (I.E.; CONTAINMENT BIN)

CONCRETE WASHOUT NOT TO SCALE

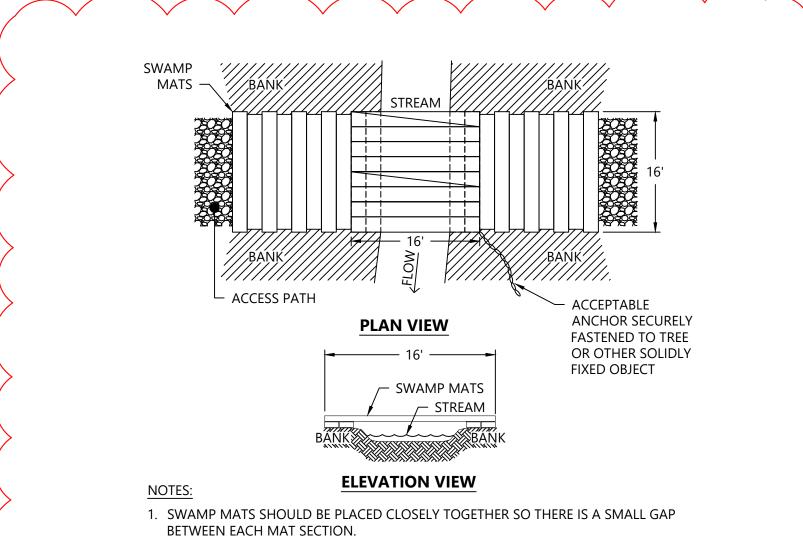




TEMPORARY SEDIMENT TRAP NOT TO SCALE



HAY BALE CHECK DAM



2. ADDITIONAL MEASURES MAY BE REQUIRED.

3. CONTRACTOR TO ENSURE MATTING IS PLACED WITH NECESSARY BANK OVERLAP

TO PROVIDE SUFFICIENT BEARING CAPACITY AND ENSURE STREAM BANK STABILITY. **SWAMP MAT BRIDGE FOR TEMPORARY STREAM CROSSING** NOT TO SCALE

MAP REFERENCE:
1. "115-13.8KV SUBSTATION YARD EROSION CONTROL, EROSION CONTROL PLAN, OLD TOWN, BRIDGEPORT," PREPARED BY SNC, LTD., SCALE N/A, DATED 01/12/2024 2. "OLD TOWN SUBSTATION CONSTRUCTION DETAILS, THE UNITED ILLUMINATING COMPANY PROPOSED ACCESS ROAD IMPROVEMENTS OVER LAND OF THE CITY OF BRIDGEPORT," PREPARED BY LUCHS CONSULTING ENGINEERS, DATE 7/5/23

REVISIONS DESCRIPTION 1 | 12/09/2024 | SWAMP MAT BRIDGE FOR TEMPORARY STREAM CROSSING DETAIL ADDED 197 SCOTT SWAMP ROAD FARMINGTON, CT 06032 (860) 674-9570 HRPASSOCIATES.COM

DEGIGIALD.	OOALL.
ASB	AS NOTED
DRAWN:	ISSUE DATE:
ASB	08/28/2024
REVIEWED:	PROJECT NUMBER:
KAM	AVA4015.EE
APPROVED:	SHEET SIZE:
TRB	24"x36"

THE UNITED ILLUMINATING - OLD TOWN SUBSTATION REBUILD

280 KAECHELE PL, BRIDGEPORT, CT 06606 **DETAILS**

SHEET NO.

D1.2



for the

OLD TOWN SUBSTATION REBUILD PROJECT

(Connecticut Siting Council Docket No. 490)

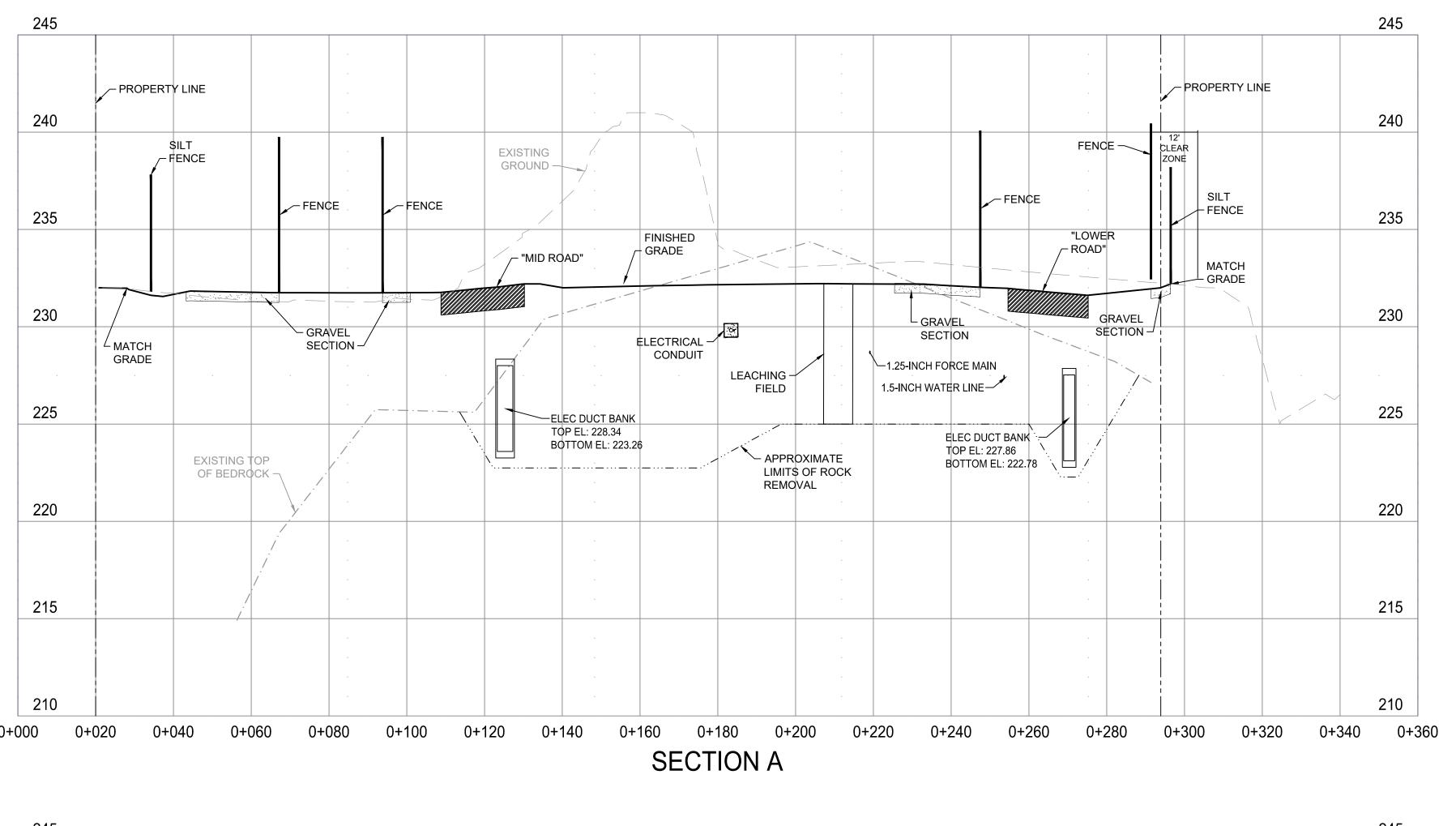
<u>VOLUME 2:</u> Project Mapping and Drawings

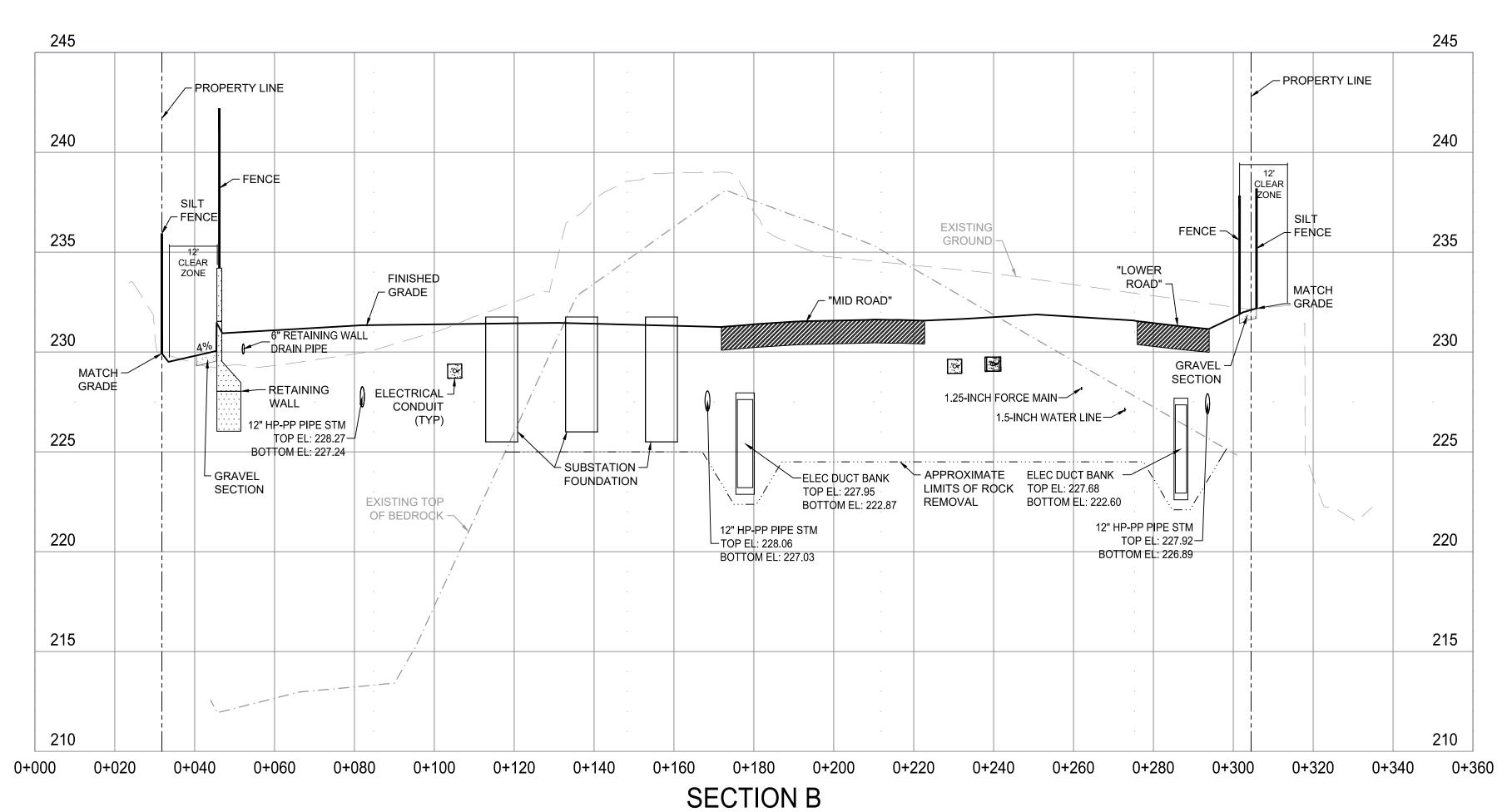
SECTION 2C

Cross Sections:

Overall Site Sections	25233-0003-003 SH 002
Overall Site Sections	25233-0003-003 SH 004
Overall Site Sections	25233-0003-003 SH 005
Overall Site Sections	25233-0003-003 SH 006
Storm Sewer Profiles	25233-0003-003 SH 007
Storm Sewer Profiles	25233-0003-003 SH 008
Retaining Wall Elevation	25233-0003-004-SH 005
Retaining Wall Sections	25233-0003-004-SH 006
General Arrangement Elevations	25233-0002-002 SH 001
Desing Requirement Drawing Strain Structures 2, 3, & 4	5233U-T1710-200
Desing Requirement Drawing Terminal Structures 7 & 10	5233U-T1710-201-SH1

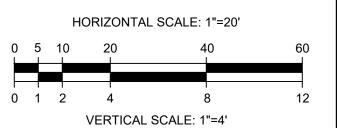




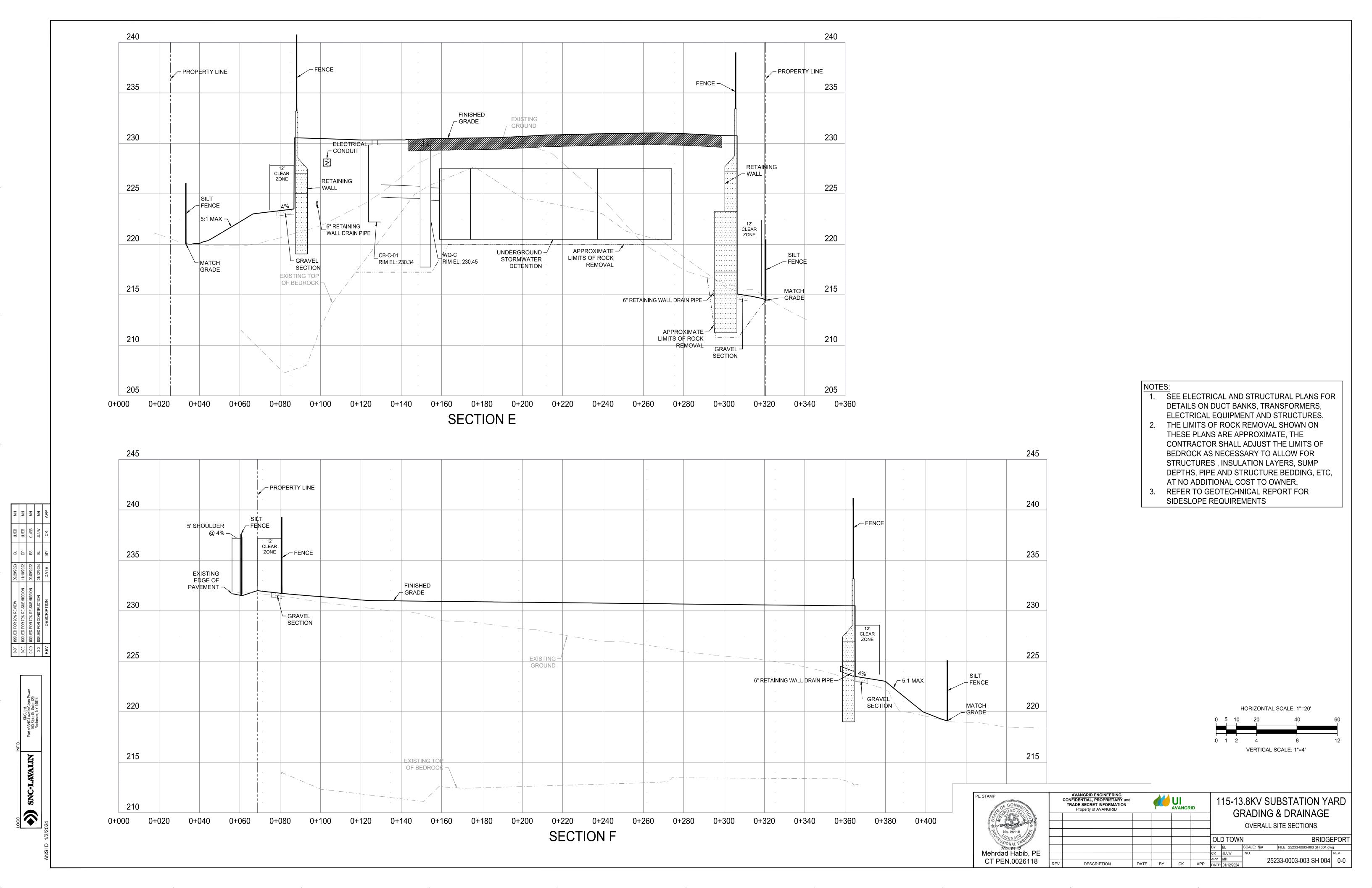


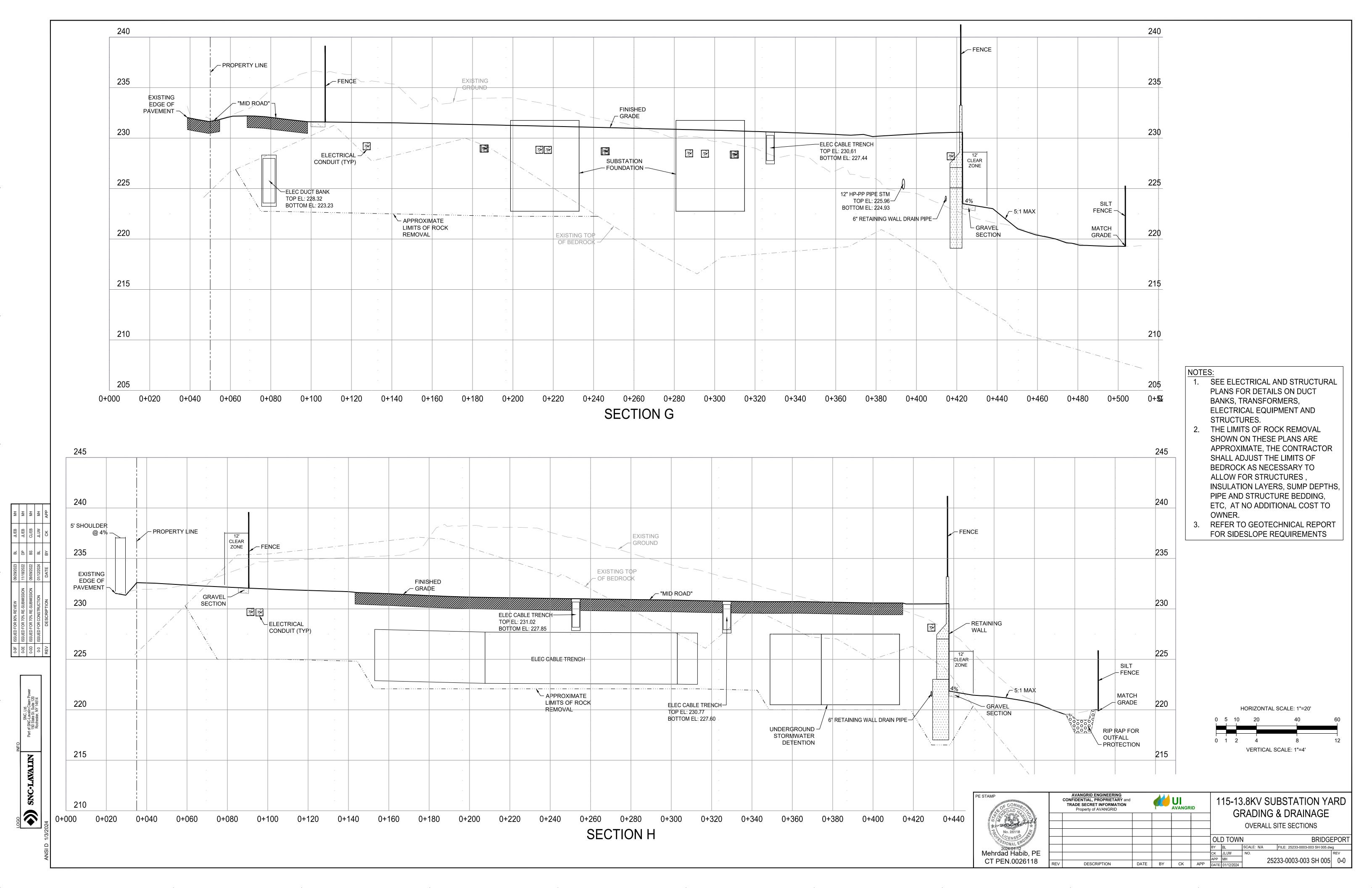
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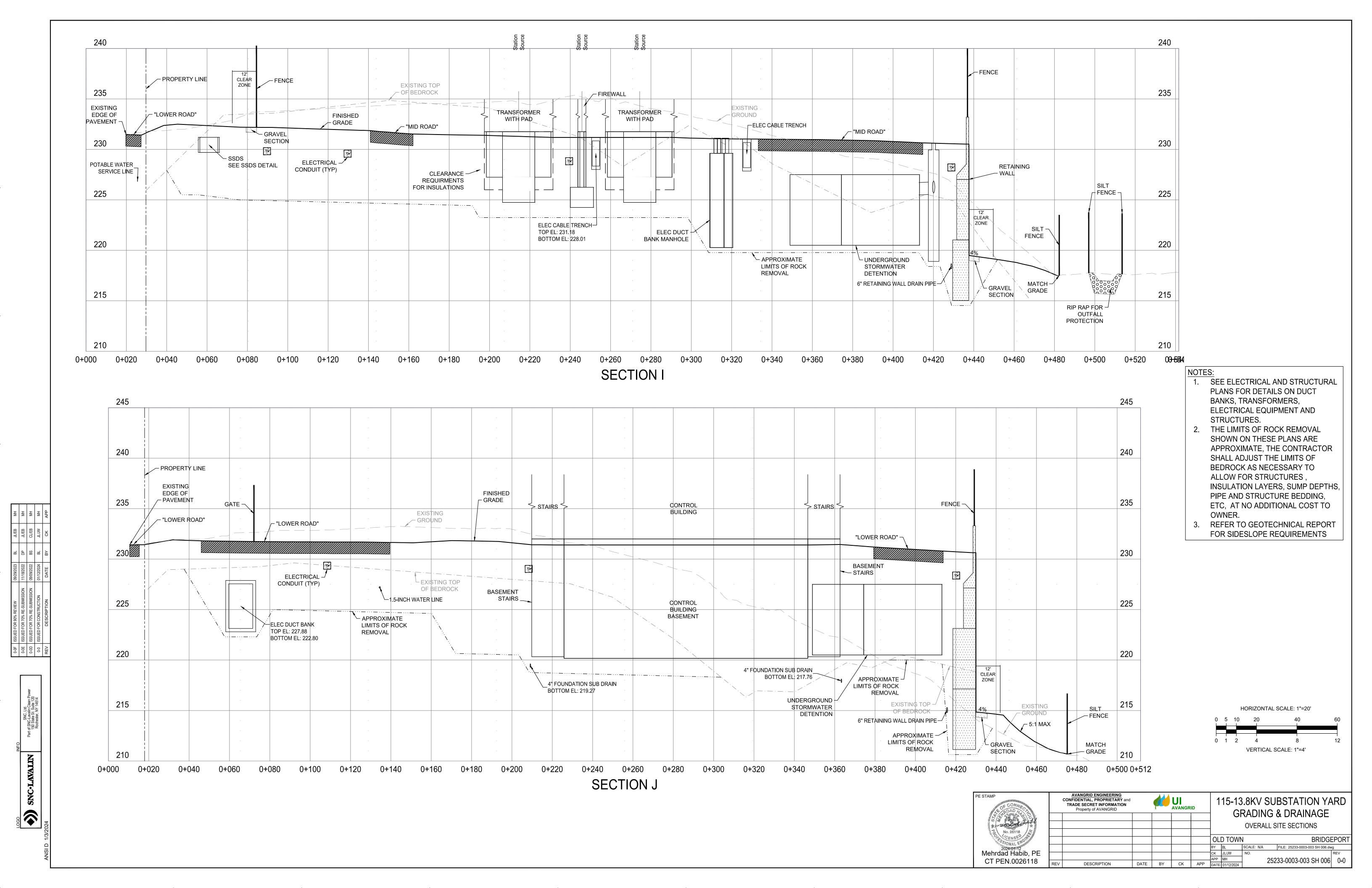
- SEE ELECTRICAL AND STRUCTURAL PLANS FOR DETAILS ON DUCT BANKS, TRANSFORMERS, ELECTRICAL EQUIPMENT AND STRUCTURES.
- 2. THE LIMITS OF ROCK REMOVAL SHOWN ON THESE PLANS ARE APPROXIMATE, THE CONTRACTOR SHALL ADJUST THE LIMITS OF BEDROCK AS NECESSARY TO ALLOW FOR STRUCTURES, INSULATION LAYERS, SUMP DEPTHS, PIPE AND STRUCTURE BEDDING, ETC, AT NO ADDITIONAL COST TO OWNER.
- 3. REFER TO GEOTECHNICAL REPORT FOR SIDESLOPE REQUIREMENTS

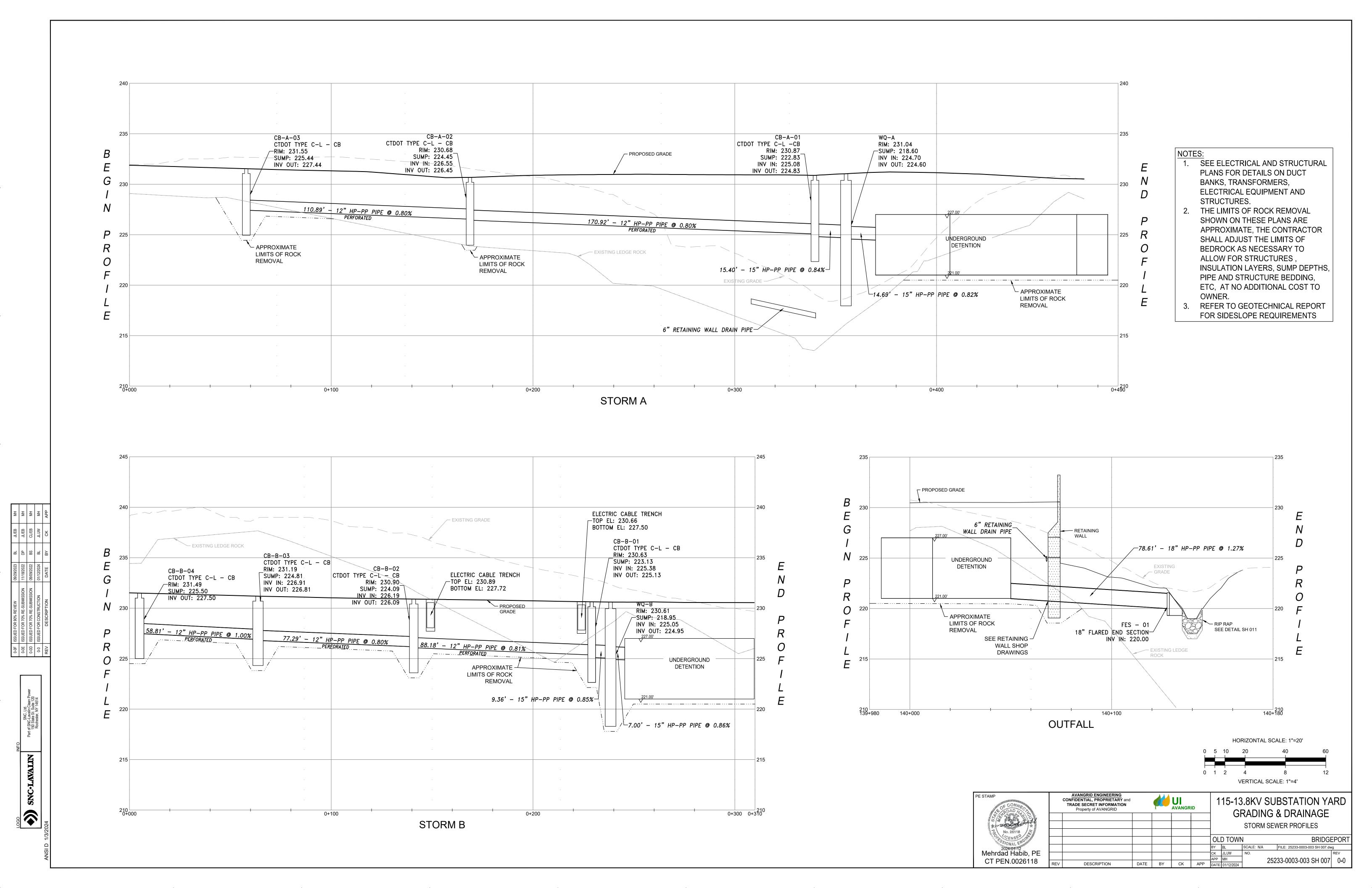


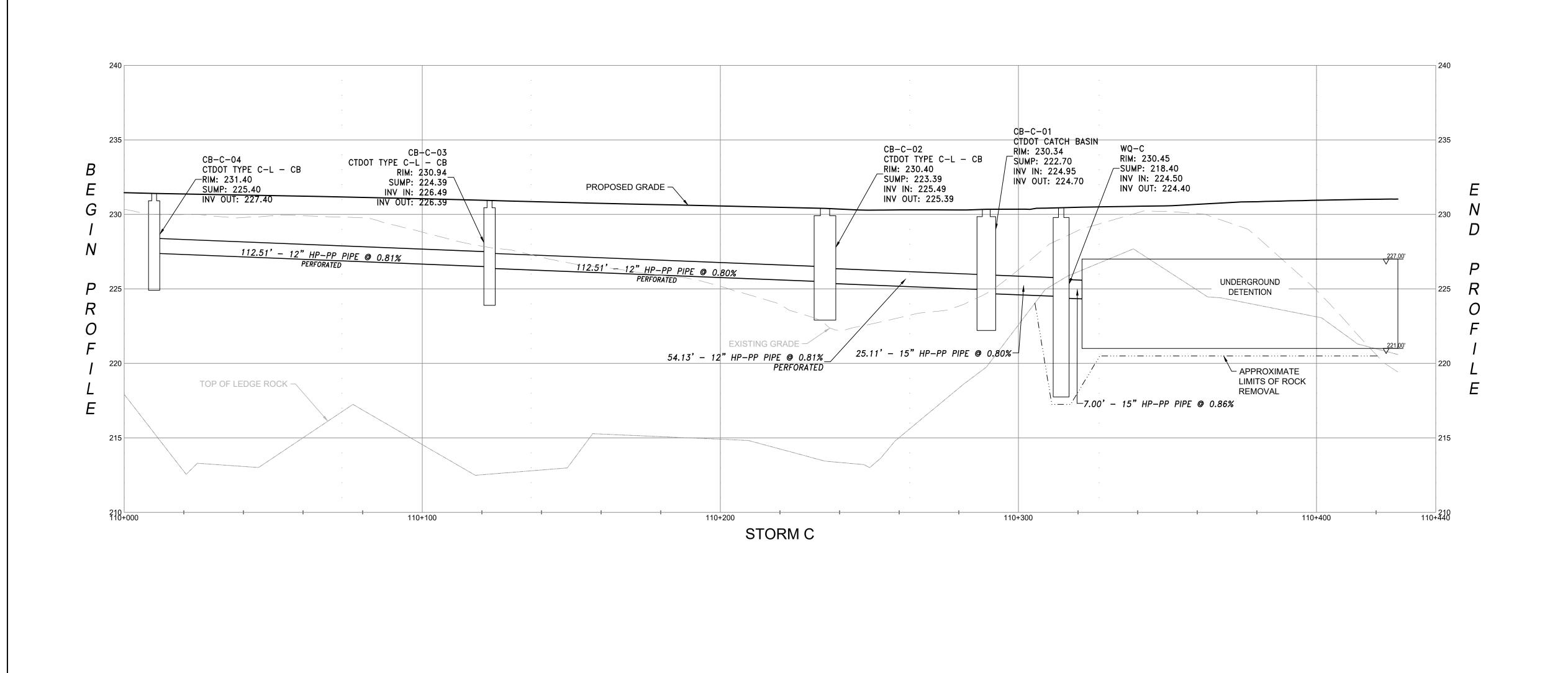
PESTAMP OF CONNECTION AND ADDRESS OF THE PROPERTY OF THE PRO		AVANGRID ENGINEERING CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION Property of AVANGRID			UI AVANGR	ID	1			IBSTATION YA & DRAINAGE	
The state of the s								Oi		SITE SECTIONS	
No. 26118 (CENSE)							01	D TOWN	J	BRIDG	EPORT
2024-04-142 minut							BY	BL	SCALE: N/A	FILE: 25233-0003-003 SH 002.d	
Mehrdad Habib, PE								JL/JW	NO.		REV
CT PEN.0026118	REV	DESCRIPTION	DATE	BY	CK	APP		MH 01/12/2024	252	233-0003-003 SH 002	0-0





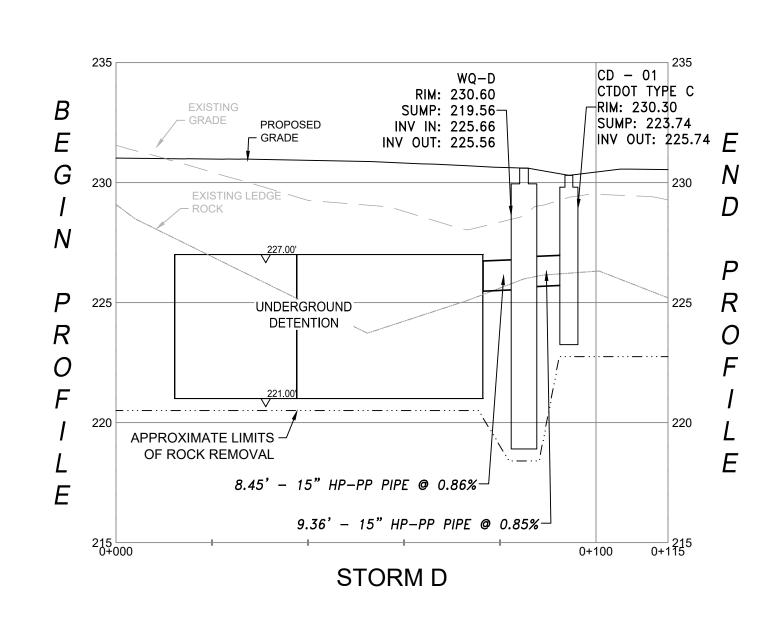


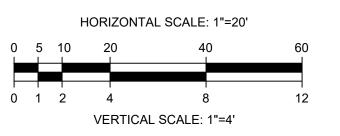




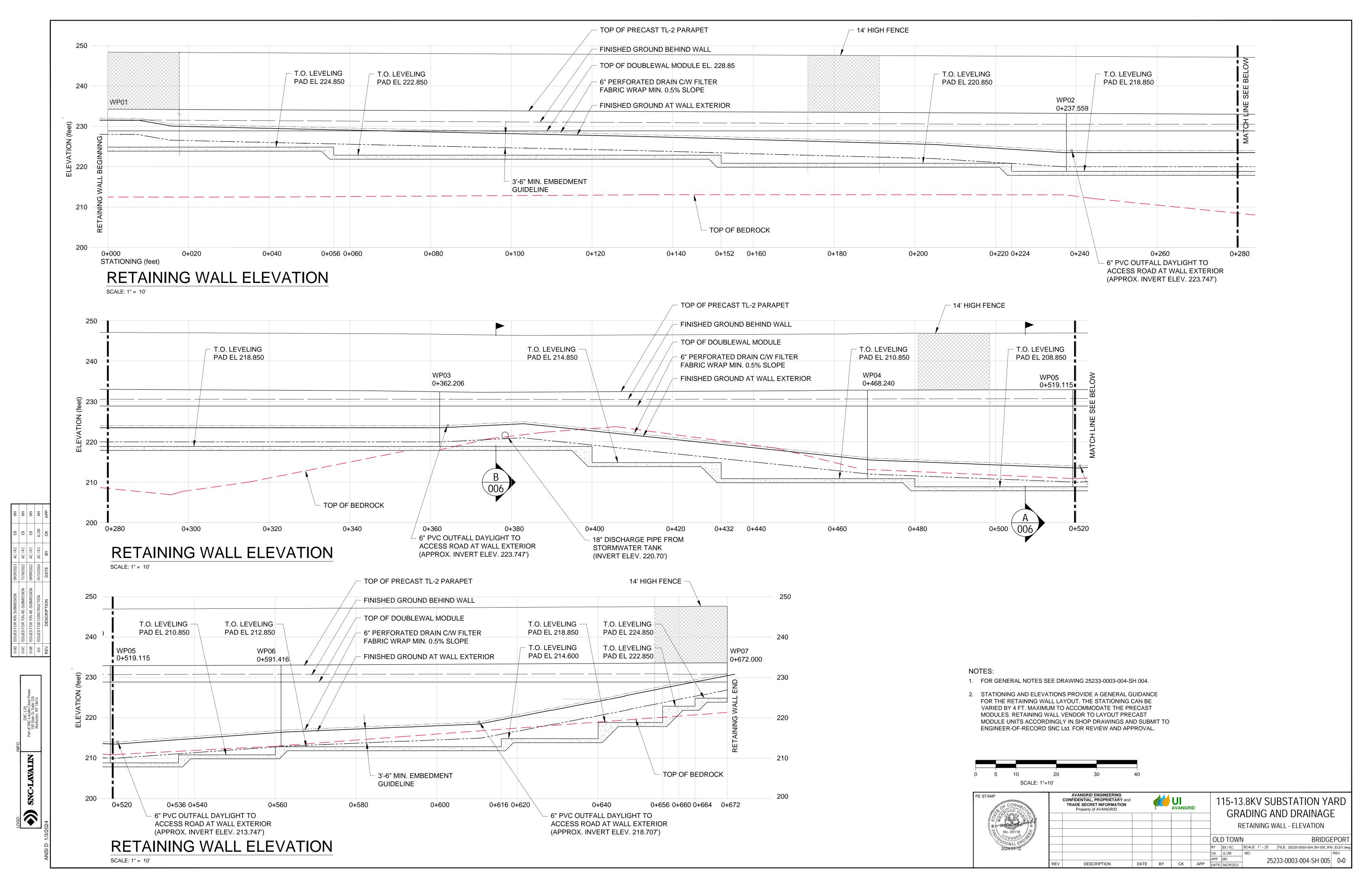
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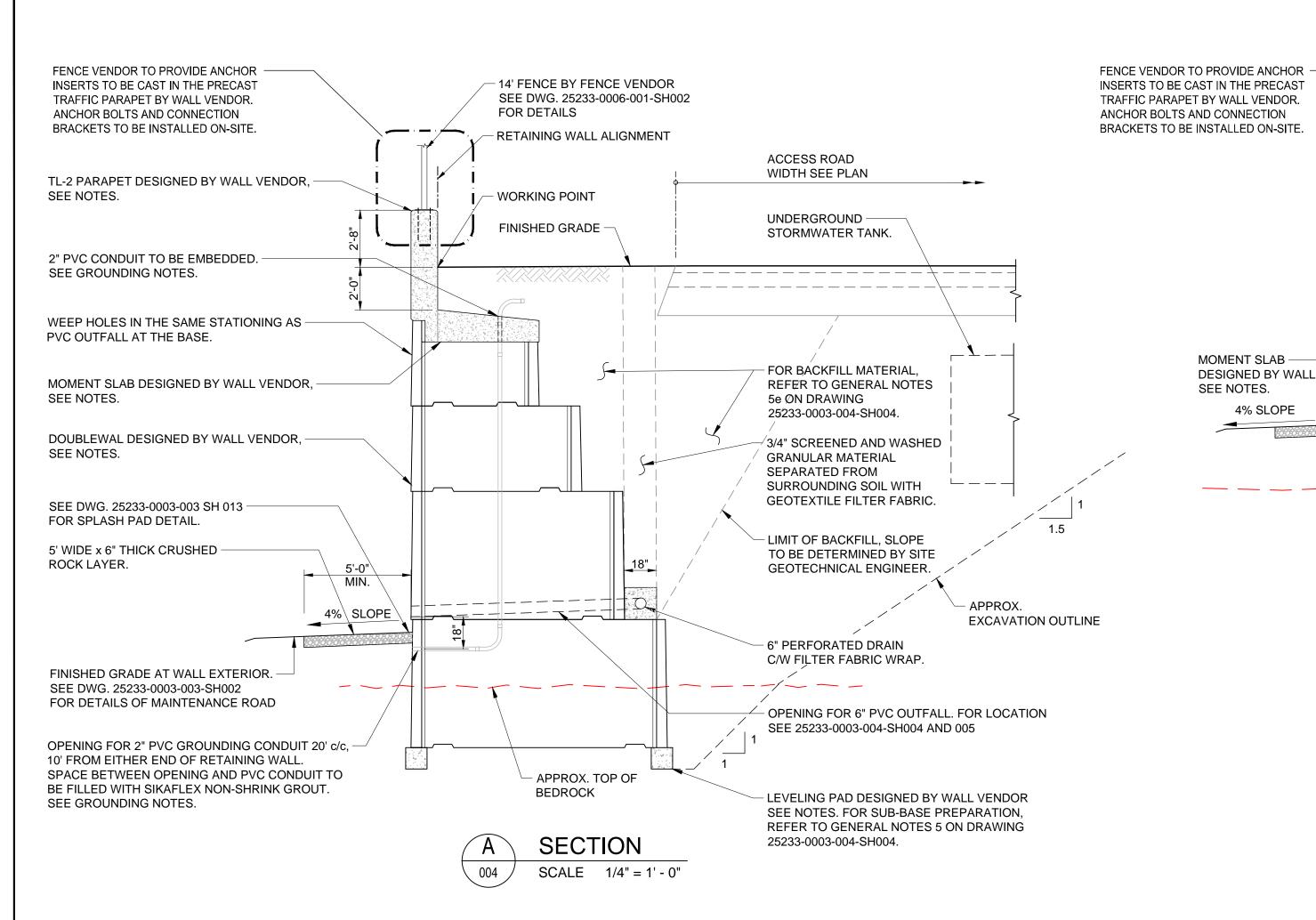
- 1. SEE ELECTRICAL AND STRUCTURAL PLANS FOR DETAILS ON DUCT BANKS, TRANSFORMERS, ELECTRICAL EQUIPMENT AND STRUCTURES.
- 2. THE LIMITS OF ROCK REMOVAL SHOWN ON THESE PLANS ARE APPROXIMATE, THE CONTRACTOR SHALL ADJUST THE LIMITS OF BEDROCK AS NECESSARY TO ALLOW FOR STRUCTURES, INSULATION LAYERS, SUMP DEPTHS, PIPE AND STRUCTURE BEDDING, ETC, AT NO ADDITIONAL COST TO OWNER.
- 3. REFER TO GEOTECHNICAL REPORT FOR SIDESLOPE REQUIREMENTS





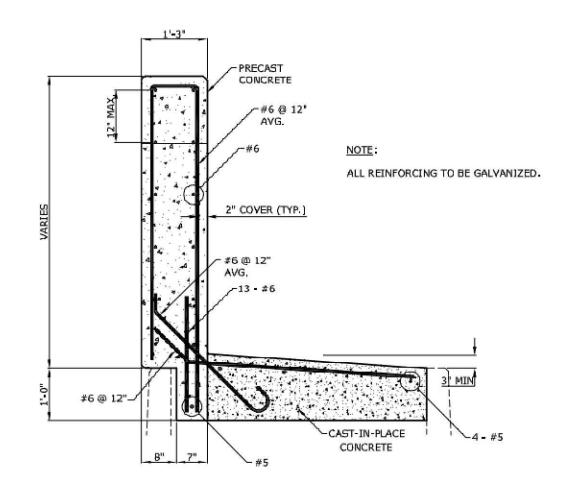
PE STAMP OF CONNECTION OF CONNECTI		AVANGRID ENGINEERING CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION Property of AVANGRID			UI AVANGR	ID	1			JBSTATION YA & DRAINAGE	\RD
TO SERVICE OF THE SER								Gi		WER PROFILES	
No. 26118 CENSED CONSERVENTION CO							OL	D TOWN		BRIDGE	
Mehrdad Habib, PE							CK	JL/JW	SCALE: N/A NO.		REV
CT PEN.0026118	REV	DESCRIPTION	DATE	BY	CK	APP		MH : 01/12/2024	25	233-0003-003 SH 008	0-0





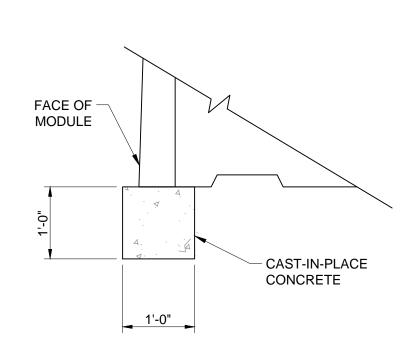
VENDOR NOTES:

- THE RETAINING WALL SHALL CONSIST OF A DOUBLEWAL PRECAST RETAINING WALL SYSTEM, NO SUBSTITUTIONS ALLOWED.
- 2. RETAINING WALL MODULE UNITS, LEVELLING PADS, TRAFFIC PARAPET AND MOMENT SLAB AS SHOWN ARE CONCEPTUAL ONLY. RETAINING WALL VENDOR SHALL BE RESPONSIBLE FOR THE DESIGN BASED ON WALL HEIGHT AND MASH TEST LEVEL TL-2 AND ALL OTHER APPLICABLE LOADINGS, THE DESIGN SHALL CONFORM TO AASHTO LRFD 2020. ALL DESIGN SHALL BE COMPLETED AND STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER REPRESENTING THE RETAINING WALL VENDOR.
- 3. WALL SHALL BE DESIGNED AND CONFIGURED TO THE WALL SHOWN ON THE PLANS.
- 4. DETAILS OF FENCE ANCHORAGE, TRAFFIC PARAPET AND MOMENT SLAB TO BE COORDINATED WITH RETAINING WALL VENDOR AND FENCE VENDOR.
- 5. ALL DESIGN AND STAMPED DRAWINGS TO BE SUBMITTED TO ENGINEER-OF-RECORD (SNC Ltd.) FOR REVIEW AND APPROVAL.



PRECAST BARRIER TYPE II-B DETAIL PROVIDED BY UNITED CONCRETE PRODUCT, INC.

(SEE VENDOR NOTE 2) SCALE: NTS



— 14' FENCE BY FENCE VENDOR

- RETAINING WALL ALIGNMENT

TL-2 PARAPET DESIGNED

SECTION

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

BY WALL VENDOR,

- WORKING POINT

SEE NOTES.

MOMENT SLAB -

SEE NOTES.

DESIGNED BY WALL VENDOR,

4% SLOPE

FOR DETAILS

SEE DWG. 25233-0006-001-SH002

— FINISHED GRADE AT REAR

6" PERFORATED DRAIN

C/W FILTER FABRIC WRAP.

-18" DISCHARGE PIPE

- APPROX. TOP OF

BEDROCK

OF THE WALL

ACCESS ROAD

UNDERGROUND

STORMWATER TANK.

WIDTH SEE PLAN

LEVELING PAD DETAIL PROVIDED BY UNITED CONCRETE PRODUCT, INC.

(SEE VENDOR NOTE 2) SCALE: 3/4" = 1'-0"

GENERAL & CONCRETE NOTES:

- 1. FOR GENERAL NOTES SEE DRAWING 25233-0003-004-SH 004.
- 2. ALL PRECAST CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH AND PROPERTIES AS FOLLOW:

COMPRESSIVE STRENGTH (28 DAY).... 5.0 KSI CEMENT TYPE... . ASTM C150 TYPE I AND II . 580 LB (MINIMUM) CEMENT CONTENT.. ... ASTM C33 NO.67 AGGREGATE GRADATION...... WATER-CEMENT RATIO..... ... 0.46 BY WEIGHT (MAXIMUM) AIR CONTENT... .. 6% +/- 1%

REINFORCEMENT: ASTM A615 GRADE 60 ..

3. LEVELING PAD CONCRETE

COMPRESSIVE STRENGTH (28 DAY) 4.0 KSI MINIMUM.

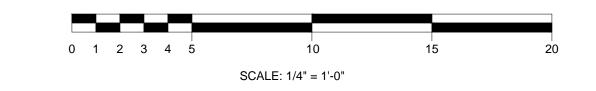
- 4. CONCRETE EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1"X1" UNLESS DIMENSIONED OTHERWISE.
- 5. CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES
- REINFORCEMENT: ALL REINFORCEMENT SHALL BE GALVANIZED UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENT OF ASTM A767 (STANDARD SPECIFICATION FOR ZINC-COATED (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT), CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS.
- 7. CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- 8. SPLICES: LAP SPLICES SHALL BE STAGGERED EVERY OTHER BAR AND LAP LENGTH SHALL BE AS FOLLOWS:

a. #6 BARS - 2'-6"

- 9. ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE. WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.
- 10. CONTRACTOR SHALL CONFIRM ALL RELEVANT DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO DEVELOPING SHOP DRAWING, ORDERING OF MATERIAL, AND BEGINNING CONSTRUCTION.

GROUNDING NOTES:

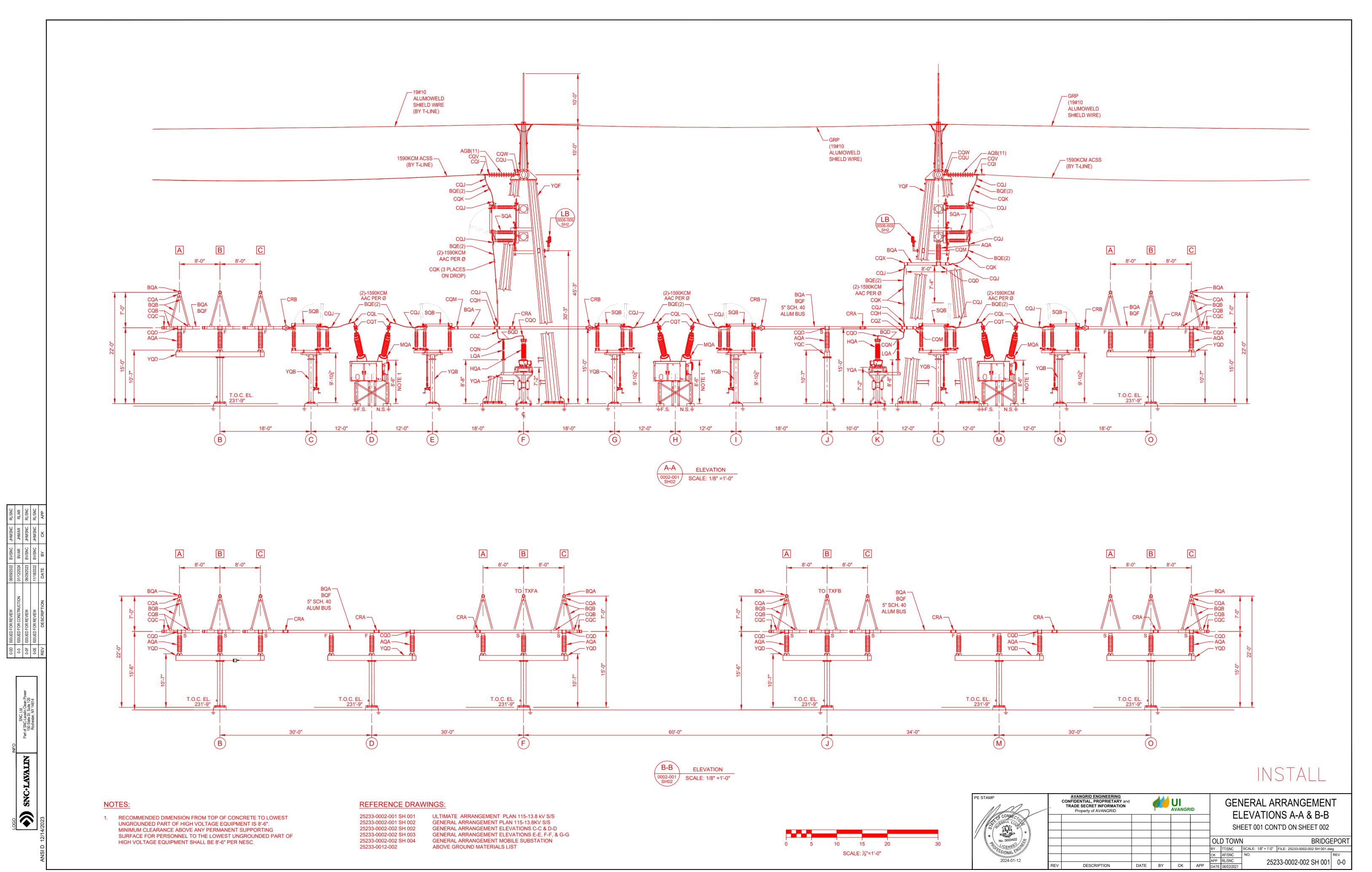
- 1. FOR RESISTIVITY REQUIREMENT, SEE DRAWING 25233-0006-002-SH001 NOTE 5.
- 2. FOR CONDUIT DETAIL, SEE DRAWING 25233-0006-002-SH004

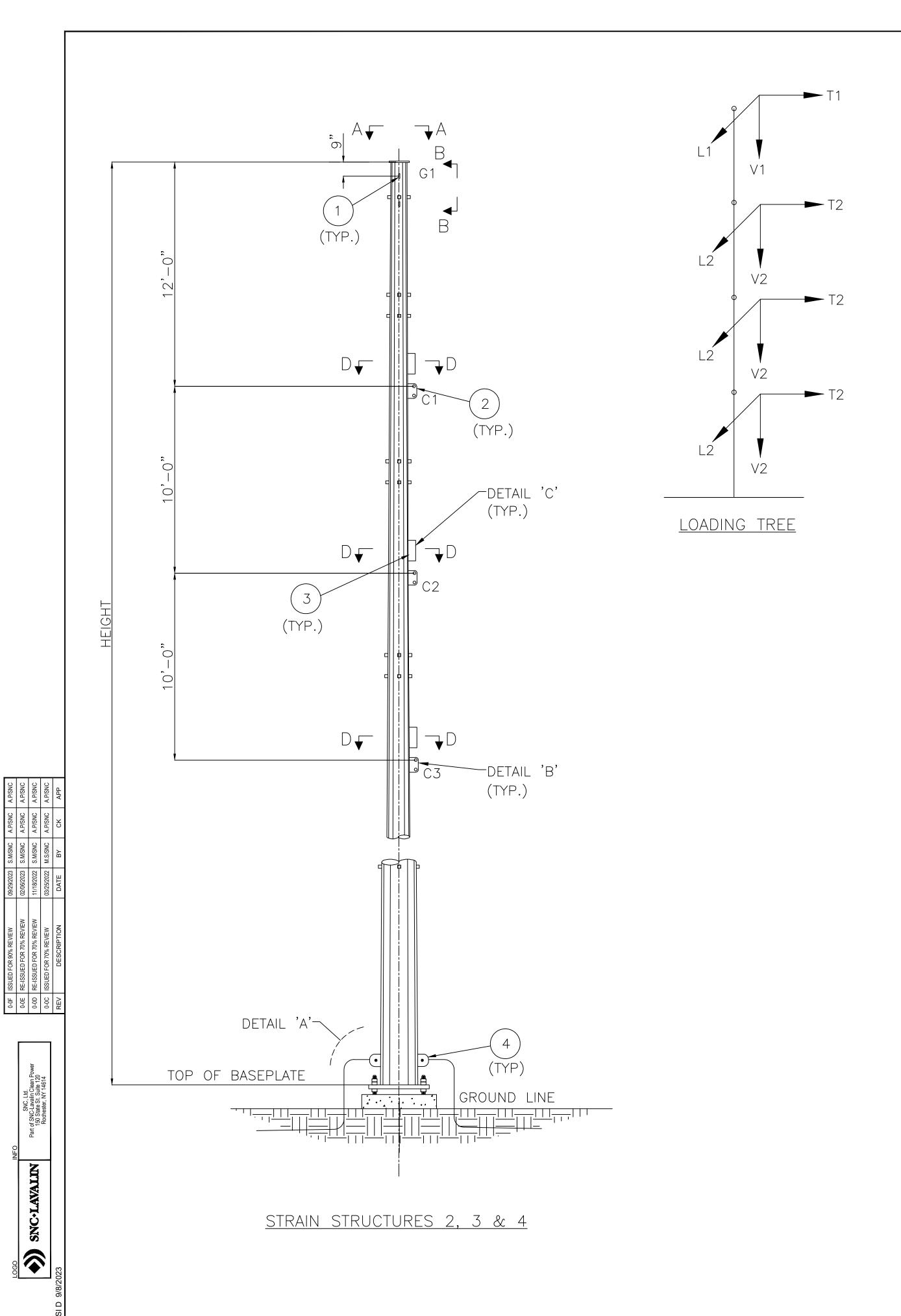


AVANGRID ENGINEERING
CONFIDENTIAL, PROPRIETARY and **W**UI 115-13.8KV SUBSTATION YARD TRADE SECRET INFORMATION Property of AVANGRID GRADING AND DRAINAGE **RETAINING WALL -SECTIONS BRIDGEPOR** BY AC / KC SCALE: 1/4" = 1'-0" FILE: 25233-0003-004 SH 006_RW_SECT.0

CK JL/JW NO. REV

APP MH 25.222 0002 004 SLL 004 0.0 25233-0003-004-SH 006 0**-**0 DESCRIPTION DATE BY CK APP DATE: 04/29/20





			WIRE LOADS (L	BS) - STRUCTURES	2, 3 & 4		
WIRE	LOAD DIRECTION	1. NESC HEAVY (250B)	2. NESC EXTREME WIND (250C)	3. NESC CONCURRENT WIND & ICE (250D)	4. EXTREME ICE	5. EVERY DAY DEFLECTION	6. UI EXTREME WIND
	V1	-290/1170	-370/845	-290/1170	-410/2140	-55/150	-525/930
G1	T1	1620/2820	1060/1755	1220/2115	2160/4015	225/425	1440/2375
	L1	2000/2290	1150/1315	1475/1685	2840/3170	345/390	1510/1725
	V2	-250/2110	-490/1400	-220/1850	-285/3110	-20/575	-755/1545
C1-C3	T2	2800/4860	2305/3660	1980/3425	3050/5650	650/1220	3095/4850
	L2	3510/3985	2275/2570	2455/2770	4150/4620	995/1110	2900/3295
		7. UNBALANCED ICE	8. NESC HEAVY DEAD-END	9. NESC EXTREME WIND DEAD-END	10. NESC CONCURRENT WIND & ICE DEAD-END	11. EXTREME ICE DEAD-END	12. UI EXTREME WIND DEAD-END
	V1	-195/860	-195/865	-190/735	-195/860	-375/1340	-265/805
G1	T1	405/1870	1150/2115	755/1300	865/1575	1500/2930	1020/1740
	L1	1255/3195	3380/3545	1940/2060	2500/2625	5060/5200	2580/2740
	V2	-255/1310	-255/2675	-275/1030	-220/1180	-410/1845	-405/1155
C1-C3	T2	705/3225	1995/4445	1615/2675	1410/2560	2140/4165	2155/3510
	L2	2155/5515	5885/8060	3805/4035	4110/4275	7230/7400	4930/5225

NOTES:

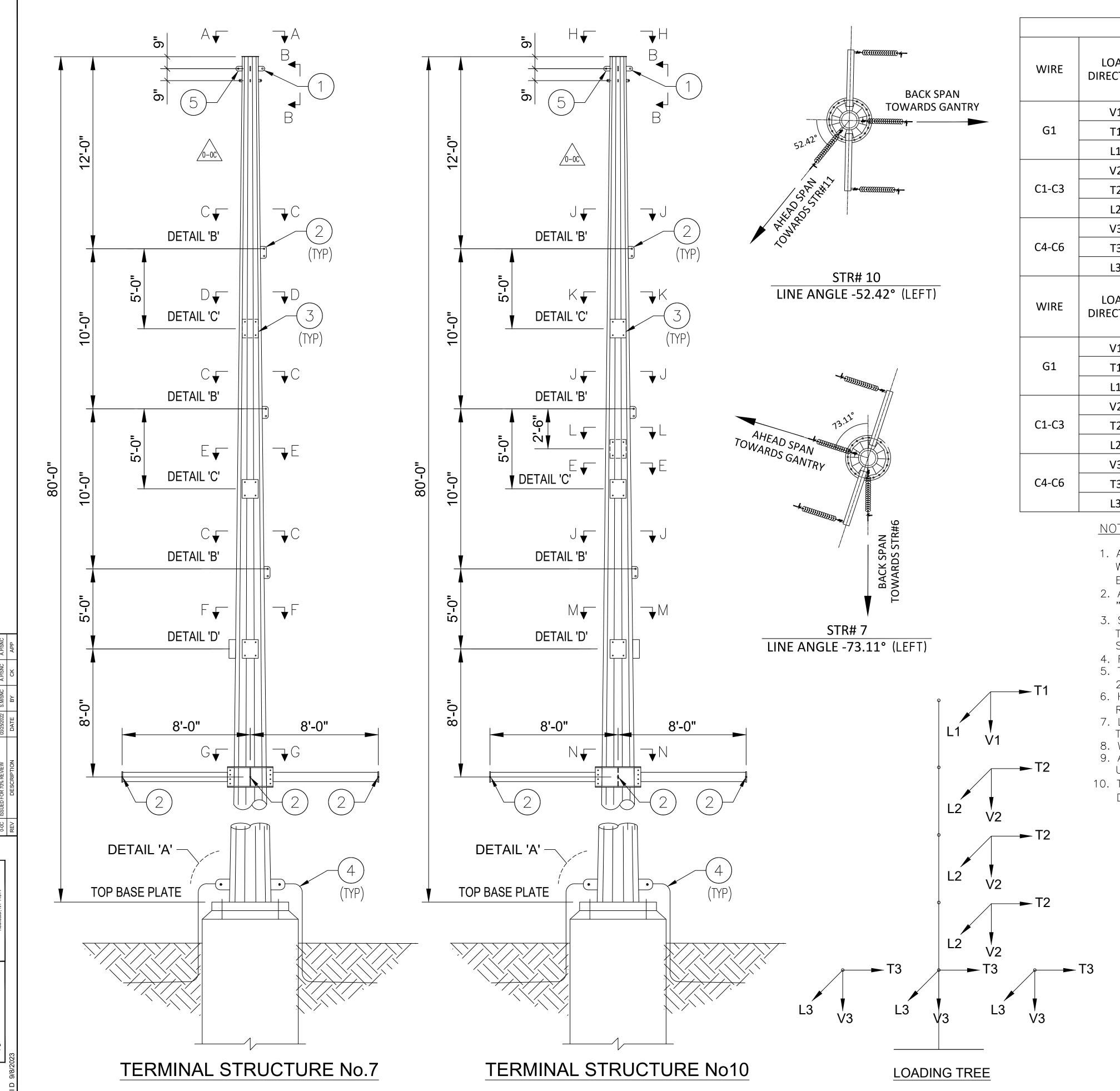
- 1. ALL LOADS ARE ULTIMATE VALUES AND INCLUDE OVERLOAD FACTORS, VERTICAL LOADS INCLUDE THE WEIGHT OF INSULATORS AND HARDWARE WITH AN ADDITIONAL 500 LB WORKING LOAD (EXCEPT FOR THE EVERYDAY LOADING CASE AND FOR UPLIFT LOADS (NEGATIVE VERTICAL LOADS).
- 2. ALL THE LOADS BEFORE THE "/" CORRESPOND TO A MINIMUM SPAN WHEREAS ALL THE LOADS AFTER THE "/" CORRESPOND TO THE MAXIMUM SPAN.
- 3. STRUCTURES ARE TO BE DESIGNED IN ACCORDANCE WITH ASCE/SEI 48-19 OR LATEST EDITION, AND TECHNICAL MANUAL (TM2.22.01) "TUBULAR STEEL POLE SPECIFICATION". IN CASE OF CONFLICT, THE MORE STRINGENT SHALL BE USED.
- 4. FOR STRUCTURE FINISH (I.E. GALVANAZING, WEATHERING, PAINTED) REFER TO TM2.22.01, PART 5.
- 5. THE FOLLOWING SHAPE FACTORS SHALL BE USED: 1.0 FOR 12 ÓR 16—SIDED, 1.4 FOR 6 OR 8—SIDED, 2.0 FOR SQUARE/FLAT.
- 6. HORIZONTAL STRÚCTURE DEFLECTION SHALL BE LIMITED TO 1% OF POLE HEIGHT ABOVE GROUND LINE. RAKING/CAMBERING IS NOT PERMITTED.
- 7. LADDERS AND LADDER CLIPS SHALL BE SUPPLIED FOR EACH POLE, AS SHOWN ON DRAWING TM2.23.TE-06-001-1 AND TM2.23.TE-06-001-2 OR EQUIVALENT APPROVED.
- 8. WORKING HOLES SHALL BE DESIGNED FOR A MINIMUM LOAD OF 6 KIPS APPLIED IN ANY DIRECTION.
- 9. ANCHOR BOLT EMBEDMENT DEPTH SHALL BE CALCULATED IN ACCORDANCE WITH ACI 318, DETERMINED USING ULTIMATE BOND STRESS VALUES BASED ON 4,000 PSI CONCRETE COMPRESSIVE STRENGTH.
- 10. THE DESCRIPTION OF THE LOADING CASES ARE LOCATED IN TABLE 4-1 OF THE DESIGN BASIS 25233-SPEC-004.

	MATERIAL LIST (FOR ONE		REFERENCE DRAWING	
ITEM	DESCRIPTION	ASSEMBLY	QUANTITY FOR ONE STR.	NUMBER
1	OPGW DEADEND ASSEMBLY	OPGWDA-1	2	
2	115kV DEADEND ASSEMBLY	CDA-1590-2	6	
3	115kV POST INSULATOR ASSEMBLY	CHA-1590-1	3 (STR#2 ONLY)	25233U-T1710-202
4	GROUNDING ASSEMBLY	GA-1	2	
5	OPGW/UG SPLICE BOX ASSEMBLY	OPGWDA-2	1 (STR#3 ONLY)	

STRUCTURE NO.	STRUCTURE HEIGHT	LINE ANGLE (LA)
NO.	(ft)	(deg)
2	80	33.0
3	100	54.0
4	100	60.2

INSTALL

PE STAMP		AVANGRID ENGINEERING CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION Property of AVANGRID			UI AVANGR	RID	DESIGN REQUIREMENT DRAWIN STRAIN STRUCTURES 2, 3 & 4				
								SIRA	AIN STRU	CTURES 2, 3	α 4
							OL	D TOWN	N	BRIDG	ETOWN
							BY	S.M/SNC	SCALE: AS NOTED	FILE: 25233U-T1710-200-SH-01	_Rev 0F.dwg
							СК	A.P/SNC	NO.		REV
							APP	A.P/SNC]	25233U-T1710-200	0-0F
	REV	DESCRIPTION	DATE	BY	CK	APP	DATE	: 03/20/2023		SHEET 1of2	



			WIRE LOADS (I	LBS) - STRUCTURES	7 & 10		
WIRE	LOAD DIRECTION	1. NESC HEAVY (250B)	2. NESC EXTREME WIND (250C)	3. NESC CONCURRENT WIND & ICE (250D)	4. EXTREME ICE	5. EVERY DAY DEFLECTION	6. UI EXTREME WIND
	V1	780/1105	340/790	780/1105	2035/1975	170/135	425/860
G1	T1	3425/1005	1785/1830	2520/760	4895/1420	555/125	2360/800
	L1	2145/2395	1055/1120	1580/1745	3285/3730	280/350	1430/1510
	V2	40/920	-210/885	35/860	205/1160	45/100	-350/1045
C1-C3	T2	6815/2080	4360/5220	4740/1450	8280/2615	1870/510	5620/1865
	L2	1295/1420	1120/1295	920/1000	1235/1750	280/345	1505/1305
	V3	595/595	500/500	575/575	630/630	60/60	460/460
C4-C6	Т3	515/515	455/455	370/370	545/545	105/105	615/615
	L3	-2510/-2510	-1555/-1555	-1770/-1770	-3315/-3315	-650/-650	-2045/-2045
WIRE	LOAD DIRECTION	7. NESC HEAVY DEAD-END	8. NESC EXTREME WIND DEAD-END	9. NESC CONCURRENT WIND & ICE DEAD-END	10. EXTREME ICE DEAD-END	11. UI EXTREME WIND DEAD-END	
	V1	-95/1340	-155/975	-95/1345	-15/2475	-220/1120	
G1	T1	3720/1065	1850/1865	2720/790	5540/1735	2440/730	
	L1	2520/3035	1145/1400	1835/2215	4110/4885	1540/1885	
	V2	0/920	-205/885	0/860	0/1160	-350/1045	
C1-C3	T2	6815/2080	4360/5220	4740/1450	8280/2615	5620/1865	
	L2	1295/1420	1120/1295	920/1000	1235/1750	1505/1305	
	V3	0/0	0/0	0/0	0/0	0/0	
C4-C6	Т3	0/0	0/0	0/0	0/0	0/0	
	L3	0/0	0/0	0/0	0/0	0/0	

NOTES:

- 1. ALL LOADS ARE ULTIMATE VALUES AND INCLUDE OVERLOAD FACTORS, VERTICAL LOADS INCLUDE THE WEIGHT OF INSULATORS AND HARDWARE WITH AN ADDITIONAL 500 LB WORKING LOAD (EXCEPT FOR THE EVERYDAY LOADING CASE AND FOR UPLIFT LOADS (NEGATIVE VERTICAL LOADS).
- 2. ALL THE LOADS BEFORE THE "/" CORRESPOND TO A MINIMUM SPAN WHEREAS ALL THE LOADS AFTER THE "/" CORRESPOND TO THE MAXIMUM SPAN.
- 3. STRUCTURES ARE TO BE DESIGNED IN ACCORDANCE WITH ASCE/SEI 48-19 OR LATEST EDITION, AND TECHNICAL MANUAL (TM2.22.01) "TUBULAR STEEL POLE SPECIFICATION". IN CASE OF CONFLICT, THE MORE STRINGENT SHALL BE USED.
- 4. FOR STRUCTURE FINISH (I.E. GALVANAZING, WEATHERING, PAINTED) REFER TO TM2.22.01, PART 5. 5. THE FOLLOWING SHAPE FACTORS SHALL BE USED: 1.0 FOR 12 OR 16—SIDED, 1.4 FOR 6 OR 8—SIDED,
- 2.0 FOR SQUARE/FLAT.
- 6. HORIZONTAL STRUCTURE DEFLECTION SHALL BE LIMITED TO 1% OF POLE HEIGHT ABOVE GROUND LINE. RAKING/CAMBERING IS NOT PERMITTED.
- 7. LADDERS AND LADDER CLIPS SHALL BE SUPPLIED FOR EACH POLE, AS SHOWN ON DRAWING TM2.23.TE-06-001-1 AND TM2.23.TE-06-001-2 OR EQUIVALENT APPROVED.
- 8. WORKING HOLES SHALL BE DESIGNED FOR A MINIMUM LOAD OF 60 KIPS APPLIED IN ANY DIRECTION.
- 9. ANCHOR BOLT EMBEDMENT DEPTH SHALL BE CALCULATED IN ACCORDANCE WITH ACI 318, DETERMINED USING ULTIMATE BOND STRESS VALUES BASED ON 4,000 PSI CONCRETE COMPRESSIVE STRENGTH.
- 10. THE DESCRIPTION OF THE LOADING CASES ARE LOCATED IN TABLE 4-1 OF THE DESIGN BASIS 25233-SPEC-004

	MATERIAL LIST PER ONE STRUCTURE								
ITEM	DESCRIPTION	ASSEMBLY	QUANTITY FOR ONE STRUCTURE	REFERENCE DRAWING					
1	SW DEADEND ASSEMBLY	SWDA-1	3						
2	115KV DEADEND ASSEMBLY	CDA-1590-2	6	25233U-T1710-202					
3	115KV POST INSULATOR ASSEMBLY	CHA-1590-1	6 FOR STR 7 AND 7 FOR STR 10	202000 11710 202					
4	GROUNDING ASSEMBLY	GA-1	2						

PE STAMP		AVANGRID ENGINEERING CONFIDENTIAL, PROPRIETARY and TRADE SECRET INFORMATION Property of AVANGRID			UI AVANGR	RID				REMENT DRA	_
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							OLI	NWOT C	1	BRID	GETOWN
							BY	S.M/SNC	SCALE: AS NOTE	D FILE: 25233U-T1710-201-SH	-01_Rev 0F.dwg
							ск	A.P/SNC	NO.		REV
	REV	DESCRIPTION	DATE	BY	CK	APP	$\overline{}$	A.P/SNC	25	5233U-T1710-201-SI	11 0-0F



for the

OLD TOWN SUBSTATION REBUILD PROJECT

(Connecticut Siting Council Docket No. 490)

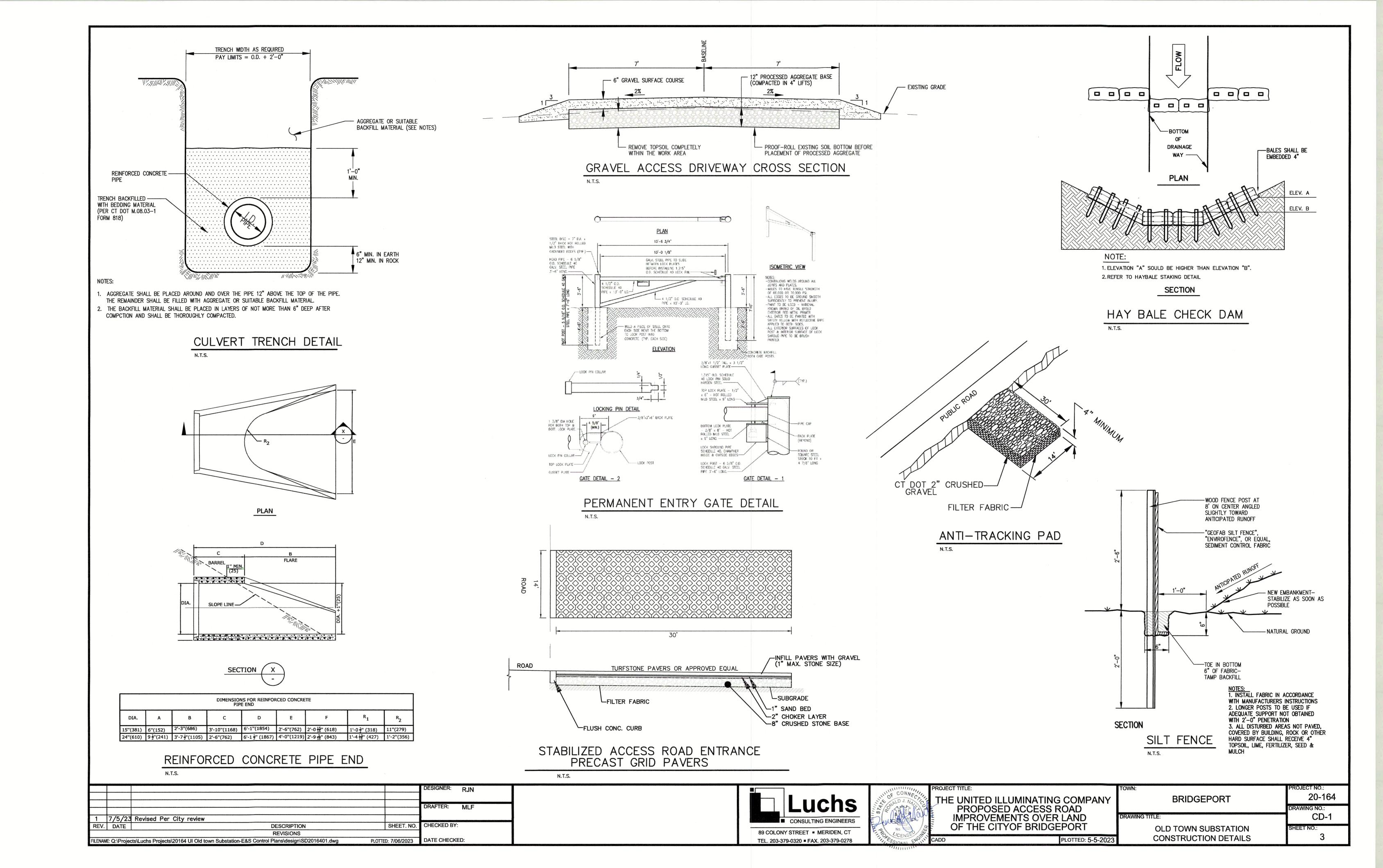
<u>VOLUME 2:</u> Project Mapping and Drawings

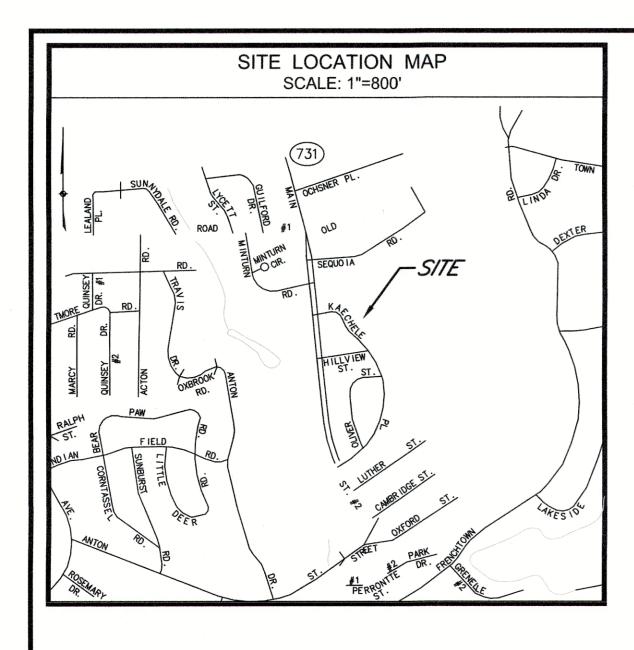
SECTION 2D

Permanent Access Road:

Construction Details	CD-1
Access Road – Site Plan Permanent Improvements	SP-1
Access Road – Site Preparation Plan & Soil, Erosion & Sediment Controls	SPP-1





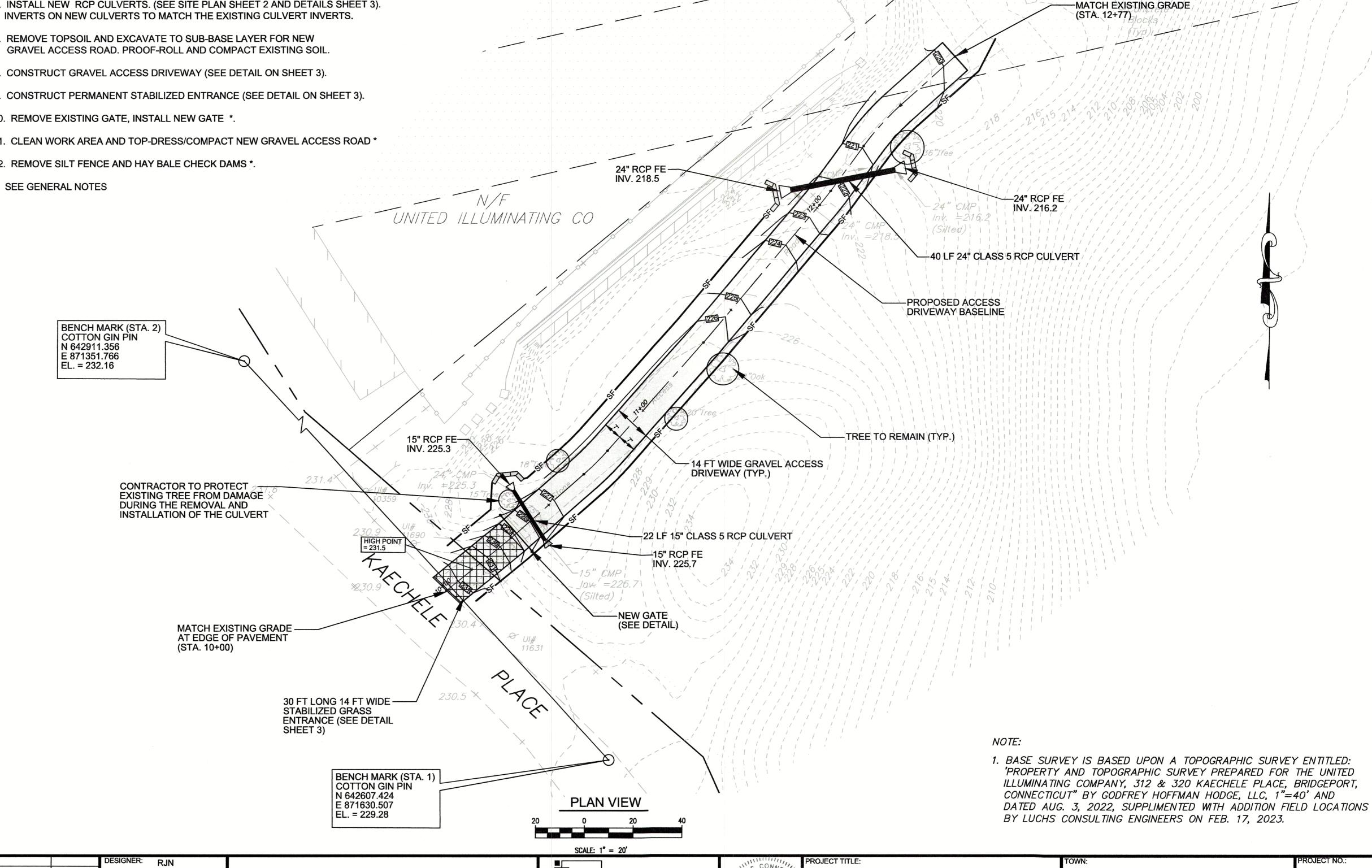


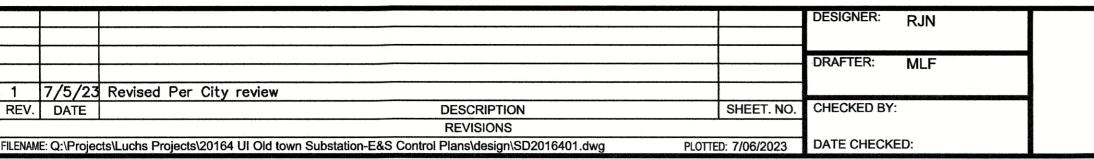
CONTRACTOR GENERAL NOTES:

- 1. THE WORK IN THIS CONTRACT INCLUDES;
- A. THE INSTALLATION OF SOIL EROSION AND SEDIMENTATION CONTROLS (SESC) IN ACCORDANCE WITH THE STATE OF CONNECTICUT STANDARDS AND BEST MANAGEMENT PRACTICES.
- B. CLEARING AND GRUBBING, THE REMOVAL AND REPLACEMENT OF EXISTING CULVERTS AND THE CONSTRUCTION OF A NEW GRAVEL ACCESS DRIVEWAY AND PERMANENT ENTRY GATE.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO SECURE THE SITE DURING CONSTRUCTION.
- 3. THE MAINTENANCE OF THE SESC MEASURES AND THE ACCESS DRIVEWAY ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION INVOLVED WITH THE RECONSTRUCTION OF "OLD TOWN SUBSTATION" HAS BEEN COMPLETED. UPON COMPLETION OF SAID CONSTRUCTION, CONTRACTOR SHALL REMOVE ALL SESC MEASURES AND REPAIR ANY DAMAGE TO THE ACCESS ROAD.

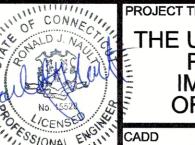
SEQUENCE OF CONSTRUCTION

- 1. REINFORCE EXISTING GATE AS REQUIRED TO SECURE WORK SITE IN OFF-HOURS.
- 2. INSTALL SILT FENCE, CHECK DAMS AND ANTI-TRACKING PAD AT LOCATIONS SHOWN.
- 3. CUT TREES TO BE REMOVED, PROTECT TREES TO REMAIN.
- 4. CLEAR AND GRUB WORK AREA INCLUDING DEBRIS, TREES, BRANCHES AND DEAD WOOD. HAUL EXCESS MATERIALS OFF SITE.
- 5. REMOVE EXISTING CULVERTS AND DISPOSE OFF-SITE.
- 6. INSTALL NEW RCP CULVERTS. (SEE SITE PLAN SHEET 2 AND DETAILS SHEET 3).
- 7. REMOVE TOPSOIL AND EXCAVATE TO SUB-BASE LAYER FOR NEW
- 8. CONSTRUCT GRAVEL ACCESS DRIVEWAY (SEE DETAIL ON SHEET 3).
- 9. CONSTRUCT PERMANENT STABILIZED ENTRANCE (SEE DETAIL ON SHEET 3).
- 10. REMOVE EXISTING GATE, INSTALL NEW GATE *.
- 11. CLEAN WORK AREA AND TOP-DRESS/COMPACT NEW GRAVEL ACCESS ROAD *
- 12. REMOVE SILT FENCE AND HAY BALE CHECK DAMS *.
- * SEE GENERAL NOTES



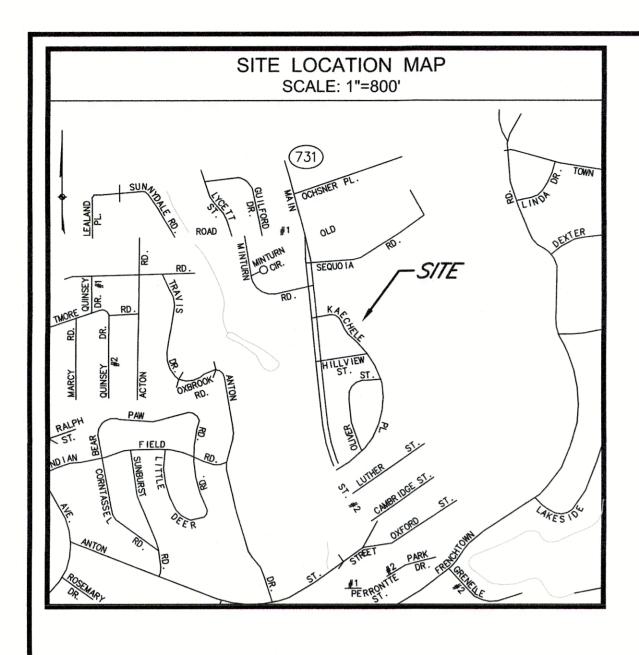






THE UNITED ILLUMINATING COMPANY PROPOSED ACCESS ROAD IMPROVEMENTS OVER LAND OF THE CITYOF BRIDGEPORT PLOTTED: 5-5-2023

20-164 BRIDGEPORT RAWING NO.: SP-1 **OLD TOWN SUBSTATION** SHEET NO.: ACCESS ROAD - SITE PLAN PERMANENT IMPROVEMENTS



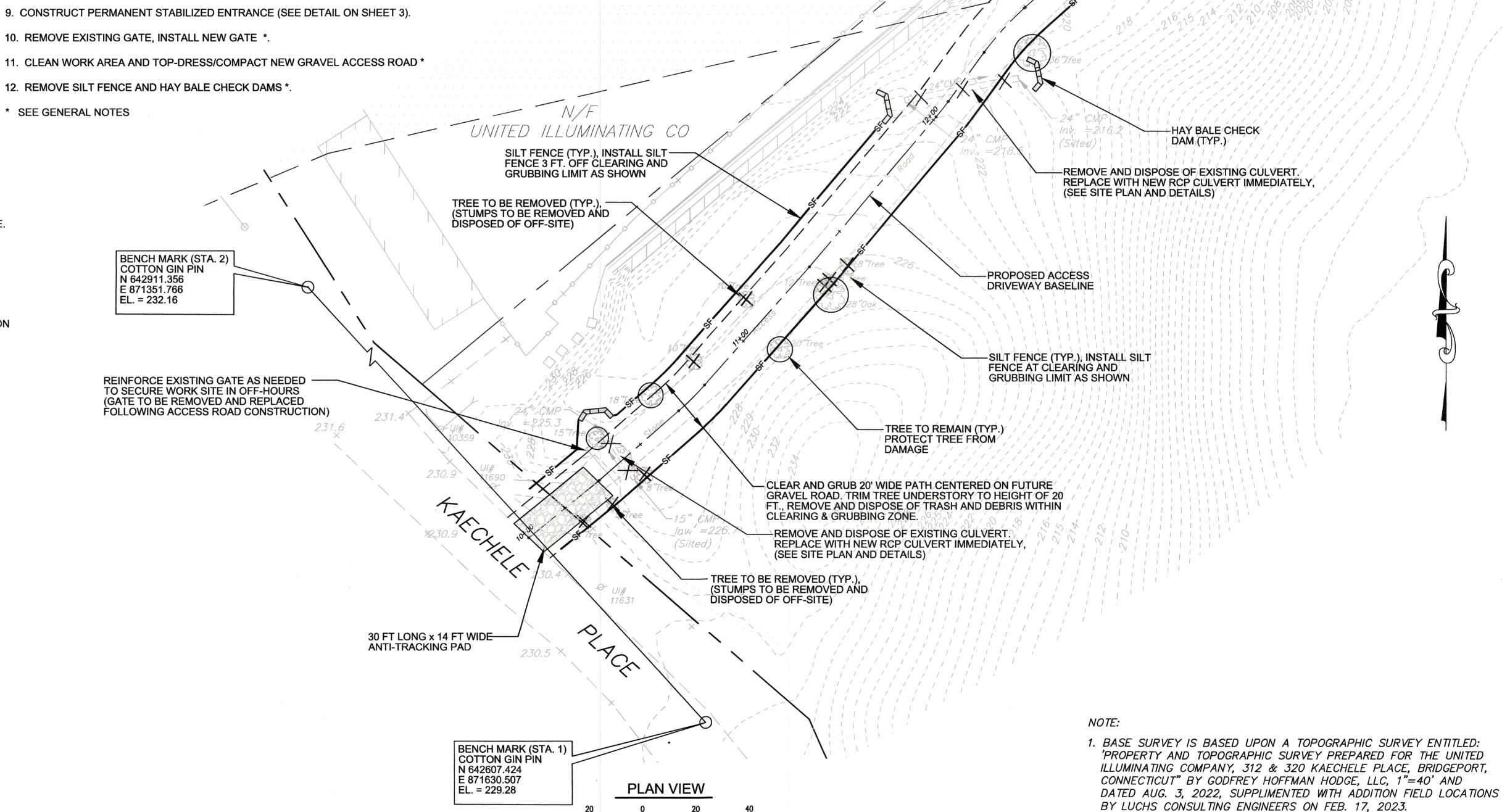
CONTRACTOR GENERAL NOTES:

- THE WORK IN THIS CONTRACT INCLUDES;
- A. THE INSTALLATION OF SOIL EROSION AND SEDIMENTATION CONTROLS (SESC) IN ACCORDANCE WITH THE STATE OF CONNECTICUT STANDARDS AND BEST MANAGEMENT PRACTICES.
- B. CLEARING AND GRUBBING, THE REMOVAL AND REPLACEMENT OF EXISTING CULVERTS AND THE CONSTRUCTION OF A NEW GRAVEL ACCESS DRIVEWAY AND PERMANENT ENTRY GATE.
- 2. IT IS THE CONTRACTORS RESPONSIBILITY TO SECURE THE SITE DURING CONSTRUCTION.
- 3. THE MAINTENANCE OF THE SESC MEASURES AND THE ACCESS DRIVEWAY ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION INVOLVED WITH THE RECONSTRUCTION OF "OLD TOWN SUBSTATION" HAS BEEN COMPLETED. UPON COMPLETION OF SAID CONSTRUCTION, CONTRACTOR SHALL REMOVE ALL SESC MEASURES AND REPAIR ANY DAMAGE TO THE ACCESS ROAD.

SEQUENCE OF CONSTRUCTION

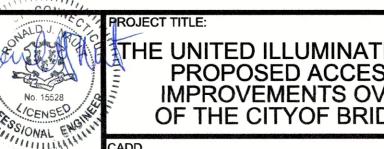
- 1. REINFORCE EXISTING GATE AS REQUIRED TO SECURE WORK SITE IN OFF-HOURS.
- 2. INSTALL SILT FENCE, CHECK DAMS AND ANTI-TRACKING PAD AT LOCATIONS SHOWN.
- 3. CUT TREES TO BE REMOVED, PROTECT TREES TO REMAIN.
- 4. CLEAR AND GRUB WORK AREA INCLUDING DEBRIS, TREES, BRANCHES AND DEAD WOOD. HAUL EXCESS MATERIALS OFF SITE.
- 5. REMOVE EXISTING CULVERTS AND DISPOSE OFF-SITE.
- 6. INSTALL NEW RCP CULVERTS. (SEE SITE PLAN SHEET 2 AND DETAILS SHEET 3). INVERTS ON NEW CULVERTS TO MATCH THE EXISTING CULVERT INVERTS.
- 7. REMOVE TOPSOIL AND EXCAVATE TO SUB-BASE LAYER FOR NEW GRAVEL ACCESS ROAD. PROOF-ROLL AND COMPACT EXISTING SOIL.
- 8. CONSTRUCT GRAVEL ACCESS DRIVEWAY (SEE DETAIL ON SHEET 3).
- 9. CONSTRUCT PERMANENT STABILIZED ENTRANCE (SEE DETAIL ON SHEET 3).
- 11. CLEAN WORK AREA AND TOP-DRESS/COMPACT NEW GRAVEL ACCESS ROAD *





DRAFTER: MLF 1 7/5/23 Revised Per City review CHECKED BY: DESCRIPTION SHEET. NO. REVISIONS DATE CHECKED: LENAME: Q:\Projects\Luchs Projects\20164 UI Old town Substation-E&S Control Plans\design\SD2016401.dwg PLOTTED: 7/06/2023





BRIDGEPORT THE UNITED ILLUMINATING COMPANY PROPOSED ACCESS ROAD IMPROVEMENTS OVER LAND **OLD TOWN SUBSTATION** OF THE CITYOF BRIDGEPORT ACCESS ROAD - SITE PREPARATION PLAN & SOIL EROSION & SEDIMENT CONTROLS PLOTTED: 5-5-2023

20-164

SPP-1



for the

OLD TOWN SUBSTATION REBUILD PROJECT

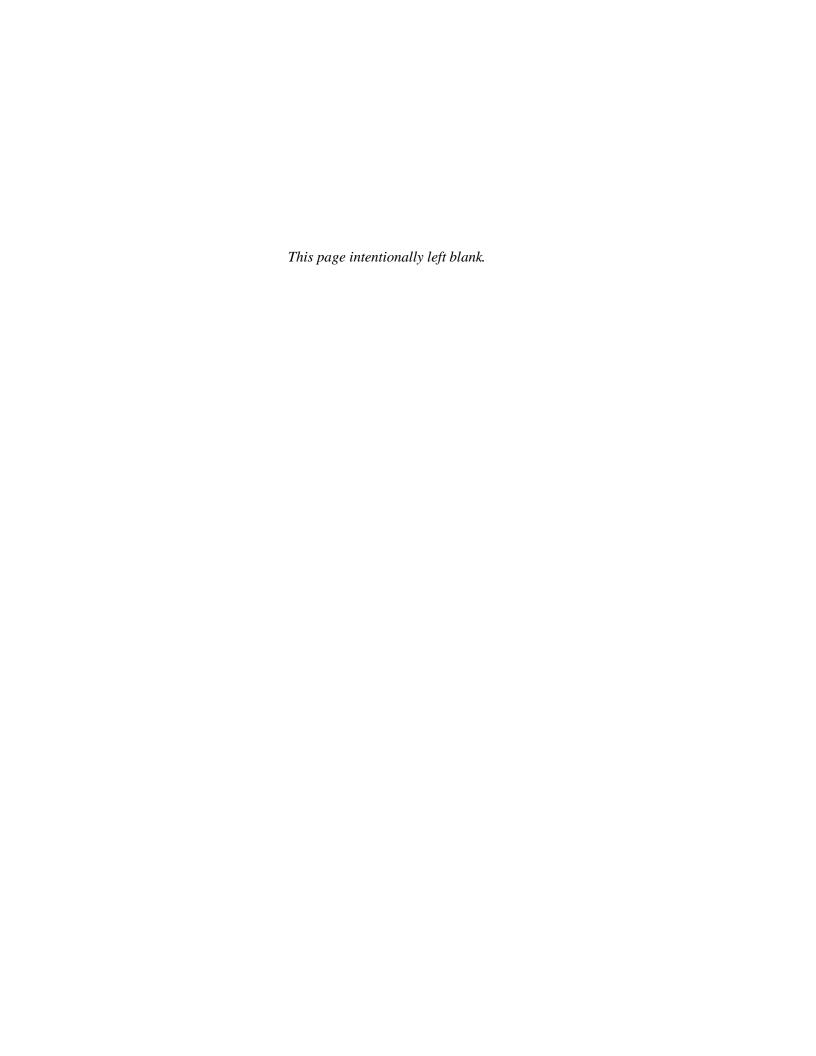
(Connecticut Siting Council Docket No. 490)

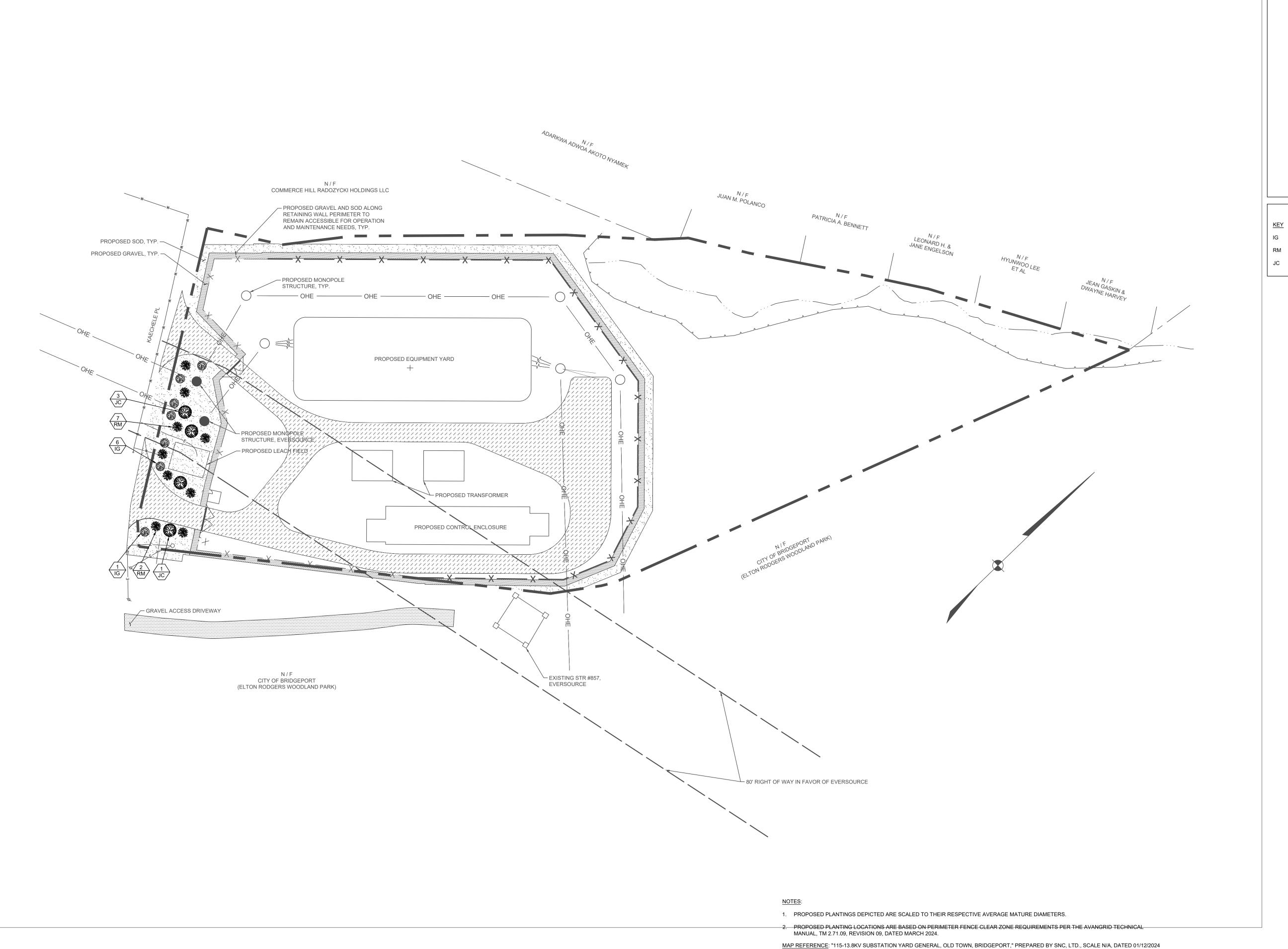
<u>VOLUME 2:</u> Project Mapping and Drawings

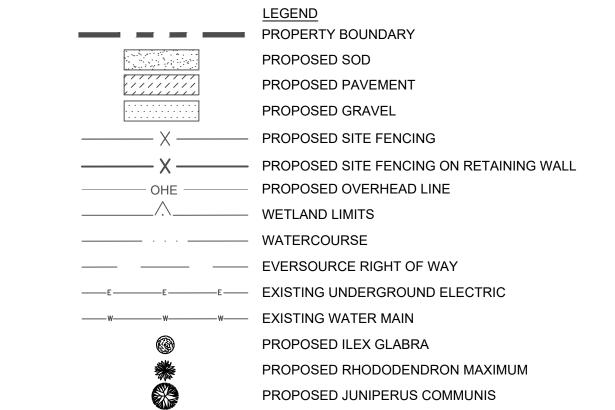
SECTION 2E

Landscape Plan:

	Landscape Planting Plan	Fig. 4
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		PROPOSED PLA	ANT SCHEDULE	
<u>KEY</u>	QUANTITY	SCIENTIFIC NAME	COMMON NAME	TYPICAL SIZE AT INSTALLATION
IG	7	ILEX GLABRA	INKBERRY HOLLY	5-GAL POT
RM	9	RHODODENDRON MAXIMUM	ROSEBAY	2-GAL POT
JC	4	JUNIPERUS COMMUNIS	COMMON JUNIPER	5-GAL POT



IG - INKBERRY HOLLY (ILEX GLABRA)



RM - ROSEBAY (RHODODENDRON MAXIMU



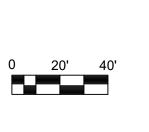
JC - COMMON JUNIPER (JUNIPERUS COMMUNIS)

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REVISIONS					
NO.	DATE	DESCRIPTION			
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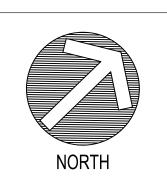
DESIGNED:	SCALE:	
ASB	1" = 40'	
DRAWN:	ISSUE DATE:	
ASB	12/03/2024	
REVIEWED:	PROJECT NUMBER:	
TRB	AVA4015.EE	
APPROVED:	SHEET SIZE:	
TRB	24"x36"	

THE UNITED ILLUMINATING - OLD TOWN SUBSTATION REBUILD

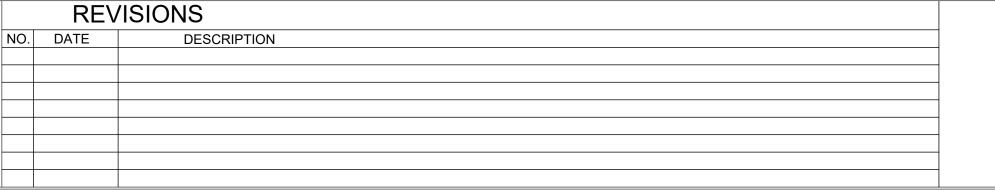
280 KAECHELE PL, BRIDGEPORT, CT 06606 ATTACHMENT 2.D LANDSCAPE PLANTING PLAN FIGURE

4









 DESIGNED:
 SCALE:

 ASB
 1" = 40'

 DRAWN:
 ISSUE DATE:

 ASB
 12/03/2024

 REVIEWED:
 PROJECT NUMBER:

 TRB
 AVA4015.EE

 APPROVED:
 SHEET SIZE:

 TRB
 24"x36"

THE UNITED ILLUMINATING - OLD TOWN SUBSTATION REBUILD

280 KAECHELE PL, BRIDGEPORT, CT 06606

ATTACHMENT 2.D LANDSCAPE PLANTING PLAN

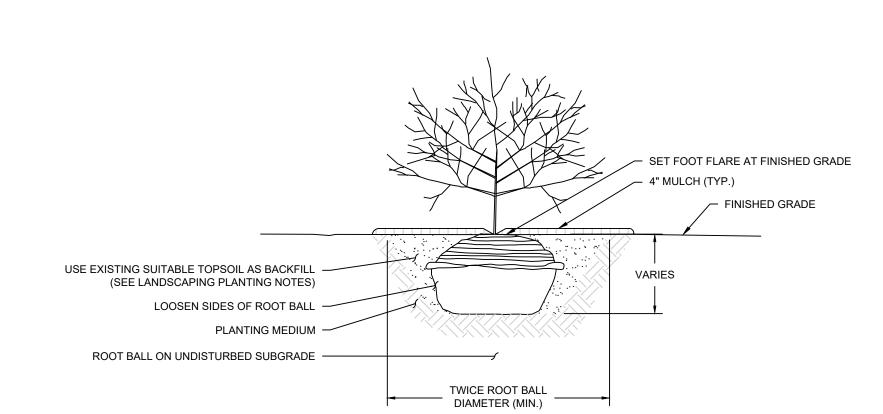
FIGURE

DRAFT

4

LANDSCAPE NOTES

- 1. EXISTING AND PROPOSED STRUCTURES AND UTILITY LOCATIONS ARE APPROXIMATE, PER "115-13.8KV SUBSTATION YARD GENERAL, OLD TOWN, BRIDGEPORT," PREPARED BY SNC, LTD., SCALE N/A, DATED 01/12/2024. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING, PRIOR TO BIDDING, THE LOCATIONS OF ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGE TO SAID UTILITIES. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455), AT LEAST 72 HOURS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH INDIVIDUAL UTILITY COMPANIES.
- 2. LOCATIONS OF PROPOSED LANDSCAPING PLANTINGS ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO EXISTING AND PROPOSED UTILITY LOCATIONS, STRUCTURES, AND OTHER SITE CONDITIONS. THE CONTRACTOR SHALL LAY OUT THE WORK PRIOR TO PLANTING FOR THE REVIEW AND APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL LABOR AND MATERIALS SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS.
- 4. BACKFILL FOR ALL LANDSCAPING PLANTINGS SHALL CONSIST OF REMOVED TOPSOIL FROM THE PLANTING PIT UNLESS OTHERWISE SPECIFIED. SUBSOIL, ROCKS, AND DEBRIS SHALL NOT BE UTILIZED AS BACKFILL.
- 5. ALL LANDSCAPING PLANTINGS SHALL BE MULCHED TO A UNIFORM DEPTH OF 4" WITH UNCOLORED, SHREDDED 100% BARK MULCH AGED AT A MINIMUM OF SIX MONTHS.
- 6. ALL LANDSCAPING PLANTINGS SHALL CONFORM IN SIZE AND GRADE TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-2004 AND IN ACCORDANCE WITH THE DRAWINGS. ALL LANDSCAPING PLANTINGS SHALL HAVE BEEN GROWN AT A COMMERCIAL NURSERY AND CONSIDERED NATIVE PER THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION. ALL LANDSCAPING PLANTINGS SHALL BE HEALTHY, SYMMETRICAL, EVENLY AND DENSELY BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF; FREE OF BARK INJURY, DISEASE, AND INSECT PESTS. THE OWNER OR OWNER'S REPRESENTATIVE MAY ALLOW SUBSTITUTIONS UPON WRITTEN REQUEST, AND HAVE THE RIGHT TO INSPECT AND ACCEPT ALL LANDSCAPING PLANTINGS AT THE NURSERY. THE CONTRACTOR SHALL COORDINATE SOURCE VISITS WITH THE OWNER OR OWNER'S REPRESENTATIVE. CERTIFICATES OF COMPLIANCE WITH SPECIFICATIONS ARE REQUIRED FOR ALL LANDSCAPING PLANTINGS.
- 7. SEEDING MIXTURE TO RESTORE ALL DISTURBED AREAS NOT OTHERWISE VEGETATED SHALL BE IN ACCORDANCE WITH ONE OF THE MIXTURES BELOW, OR AN APPROVED EQUAL.
 7.1. SEED MIXTURE #1
- 7.1.1. KENTUCKY BLUEGRASS 45%
- 7.1.2. CREEPING RED FESCUE (PENNLAWN, WINTERGREEN) 45% 7.1.3. PERENNIAL RYEGRASS (NORLEA, MANHATTEN) 10%
- 7.1.3. PERENNIAL RYEGRASS (NORLEA, MANHATTEN) 10%
 7.2. SEED MIXTURE #2
- 7.2.1. CHEWINGS FESCURE 35% 7.2.2. HARD FESCUE - 30%
- 7.2.2. HARD FESCUE 30%7.2.3. COLONIAL BENTGRASS 5%
- 7.2.4. CANADA WILDRYE (ELYMUS CANADENSIS) 10%
- 7.2.5. PERENNIAL RYEGRASS 20%



NOTES:

- 1. THE PLANTING PIT SIZE SHALL BE TWICE THE DIAMETER OF THE ROOT BALL IN WIDTH AND LESS THAN 2" LESS THAN THE HEIGHT OF THE ROOT BALL.
- 2. ALL EXTERIOR PACKAGING MATERIAL APPLIED TO THE PLANTS SHALL BE REMOVED AFTER THE PLANT IS LOCATED IN THE PLANTING PIT. CUT AND REMOVE TWINE, BURLAP, OR WIRE BASKETS FROM THE TOP 2/3 OF THE ROOT BALL.

SHRUB PLANTING DETAIL NOT TO SCALE