

PLUG POWER



HYDROGEN PRODUCTION FACILITY (STAMP - PROJECT GATEWAY) ALABAMA, NY 14013

SITE DATA - PLUG POWER HYDROGEN PRODUCTION FACILITY

SITE AREA 29.096 ACRES (1,267,422 SF)
ZONING CLASSIFICATION TECHNOLOGY DISTRICT 1 (TD1)

PERMITTED USES:
 · TECHNOLOGY MANUFACTURING
 · LIGHT INDUSTRY (THE PROCESSING, FABRICATION, ASSEMBLY OR PACKAGING OF PREVIOUSLY PREPARED OR REFINED MATERIALS)
 · ACCESSORY BUILDINGS

YARD REQUIREMENTS:

	REQUIRED	PROPOSED
FRONT	0'	134'-10"
FRONT (PARKING)	0'	53'-10"
SIDE	30'-0"	145'-8"
REAR	0'	554'-2" (150'-1" FUTURE)

* DICTATED BY FIRE SAFETY CODES, UTILITY NEEDS, AND BUFFER REQUIREMENTS. (30'-0" PER SEC. 415.6.1.2 BCNYS)

BUFFERS: NOT APPLICABLE (PARCEL DOES NOT ABUT A RESIDENTIAL OR AGRICULTURE-RESIDENTIAL DISTRICT)

MAXIMUM BUILDING HEIGHT:

	REQUIRED	PROPOSED
	110'-0"	42'-4"

MAXIMUM LOT COVERAGE: NO REQUIREMENT

DEVELOPMENT BREAKDOWN

	PROPOSED
PAVEMENT AREA	5.945 ACRES (20.4%)
CONCRETE PADS	1.449 ACRES (5.0%)
GRAVEL AREA	3.004 ACRES (10.3%)
BUILDING AREA	5.115 ACRES (17.6%)
OPEN SPACE	13.583 ACRES (46.7%)

TOTAL AREA 29.096 ACRES

PARKING REQUIREMENTS:

	REQUIRED	PROPOSED
	117 SPACES	22 SPACES

TECHNOLOGY MANUFACTURING: (1) SPACE FOR EVERY 1,000 SF OF FLOOR AREA
ALL OTHER DEVELOPMENT: (2) SPACES FOR EVERY 1,000 SF OF FLOOR AREA

* MINIMUM PARKING REQUIREMENTS MAY BE REDUCED BY THE PLANNING BOARD FOR GOOD CAUSE CONSIDERING THE PROJECTED USE INTENSITY, TURNOVER, CUSTOMERS, EMPLOYEES AND VEHICLES EXPECTED USED.

HANDICAP PARKING (BCNYS TABLE 1106.1)
1-25 SPACES = (1) ACCESSIBLE SPACE REQUIRED
(1) ACCESSIBLE SPACE & AISLE PROVIDED



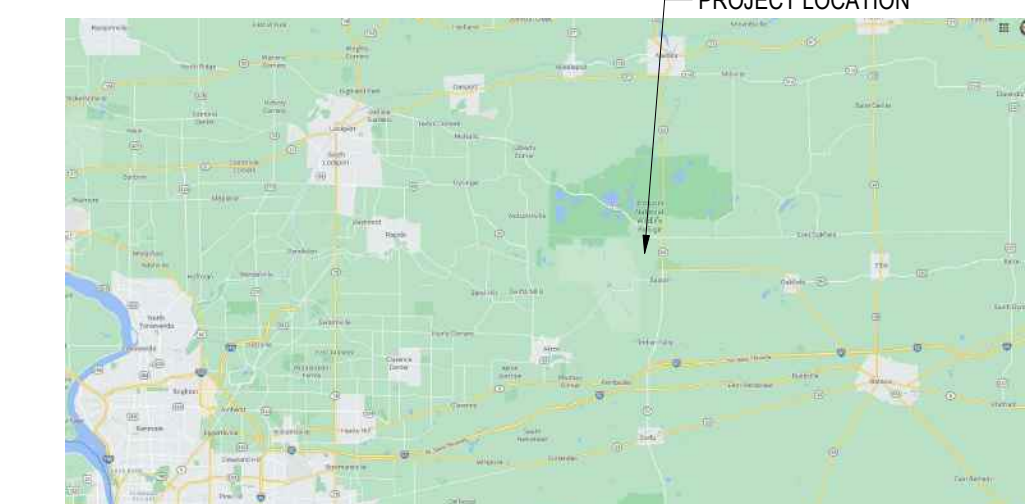
1 3D PERSPECTIVE FROM ENTRANCE
SCALE: NTS

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SCALE: NTS

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CONSTRUCTION**



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SEAL/SIGNATURE



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SITE LAYOUT & UTILITY PLAN

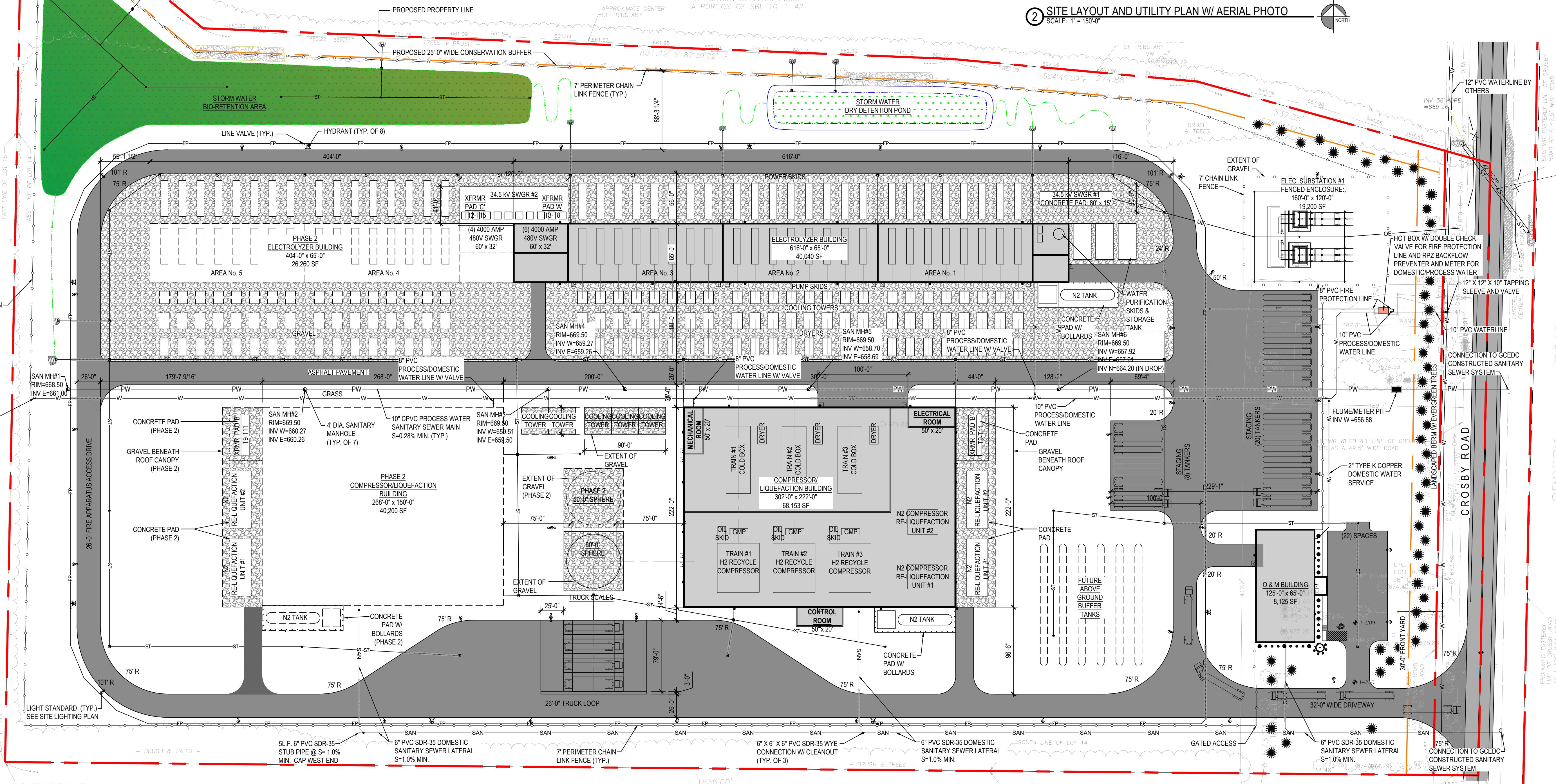


2 SITE LAYOUT AND UTILITY PLAN W/ AERIAL PHOTO
SCALE: 1" = 150'-0"

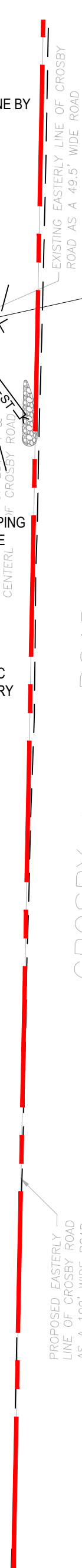
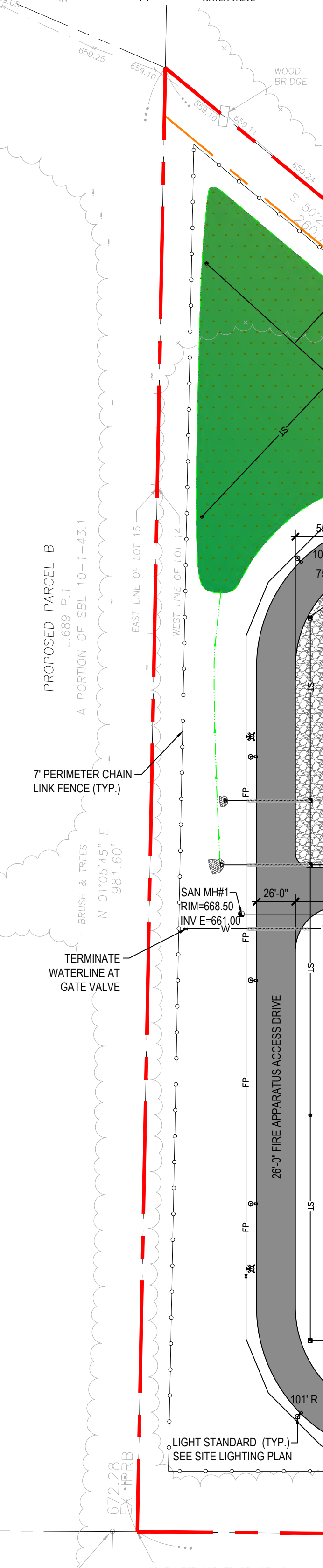
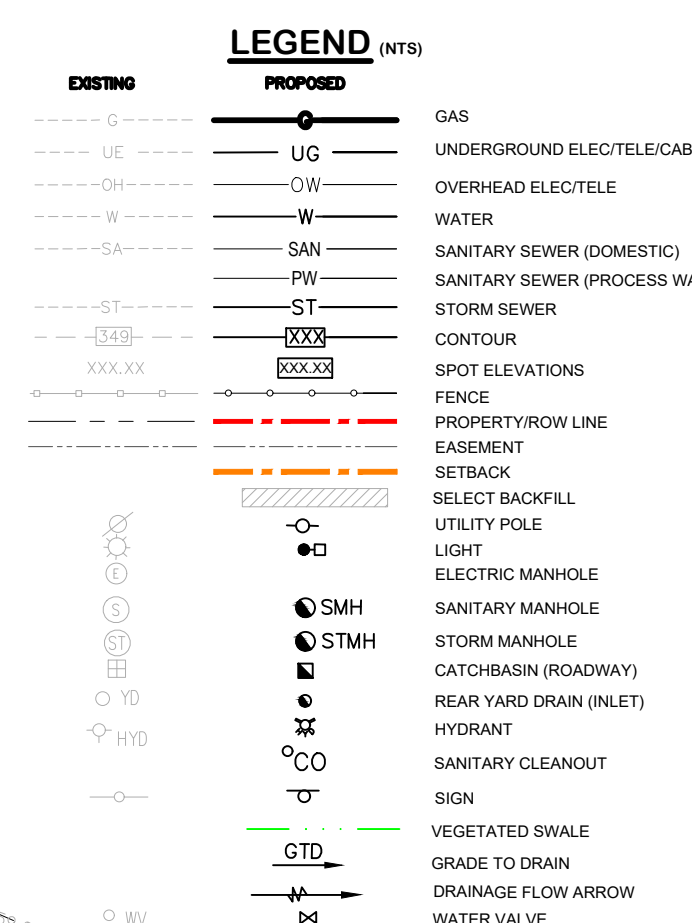
- GENERAL CONSTRUCTION NOTES**
- UTILITIES AS SHOWN ON THESE DRAWINGS ARE PLOTTED FROM FIELD EVIDENCE AND INFORMATION SUPPLIED BY VARIOUS UTILITY AGENCIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. INVICTUS CIVIL ENGINEERING, P.C. AND SCHEID ARCHITECTURAL ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THE UNDERGROUND UTILITIES. CONTRACTORS MUST CALL UP TO AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION 1-800-862-7962. THE CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS TO LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS REQUIRED TO MEET EXISTING CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT CONSTRUCTION PROCEEDS IN ACCORDANCE WITH THE LATEST REVISIONS OF THE DESIGN DRAWINGS. CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS FOUND ON SITE PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL DIG TEST PITS AS NECESSARY TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES. DESIGN ENGINEER, OWNER AND UTILITY OWNER TO BE NOTIFIED 48 HOURS PRIOR TO DIGGING OF TEST PITS. ACTUAL ROCK OR UTILITY LOCATIONS AND ELEVATIONS MAY RESULT IN REVISIONS TO DESIGN PLANS.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ALABAMA CONSTRUCTION SPECIFICATIONS, RULES, AND DETAILS.
 - ALL SANITARY SEWERS AND WATERLINE INSTALLATION AND TESTING MUST CONFORM TO THE LATEST TOWN OF ALABAMA AND GENESEE COUNTY STANDARD SPECIFICATIONS.
 - ALL WATERLINE, STORM SEWER AND SANITARY SEWER SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE NOTES AND DETAILS SHOWN ON THE DETAIL SHEETS.
 - ALL UTILITY LINES UNDER PAVEMENT, DRIVEWAYS, SIDEWALKS AND WITHIN 6 FEET OF THE BACK OF CURB MUST BE BACKFILLED WITH MECHANICALLY TAMPED FILL RUN OF CRUSHED STONE IN MAX. 4" L.F.TS. SELECT FILL IS REQUIRED UNDER ALL PAVED AREAS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PROVIDE ALL BONDS REQUIRED FOR THIS WORK INCLUDING, BUT NOT LIMITED TO, UTILITY CONNECTIONS AND SITE CONSTRUCTION.
 - ALL AREAS THAT ARE NOT PAVED, GRAVEL OR LANDSCAPED MUST BE PERMANENTLY VEGETATED WITH A MINIMUM OF 9" OF TOPSOIL AND GRASS SEED AND MAINTAINED AS LAWN.
 - TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
 - AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
 - ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSISTENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 6 INCHES IN THICKNESS.
 - FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FROZEN MATERIALS OR SOFT, MUCKY OR HEAVILY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
 - ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
 - SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES THAT CROSS THROUGH AND WITHIN FIVE (5) FEET OF ANY PAVEMENT AREA.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF ALABAMA CONSTRUCTION SPECIFICATIONS, RULES AND DETAILS.
 - ALL SIGNAGE SHALL BE IN CONFORMANCE WITH THE TOWN OF ALABAMA'S REGULATIONS. ALL SIGNAGE TO BE APPROVED BY THE TOWN OF ALABAMA PRIOR TO INSTALLATION.
 - EXTERIOR LIGHTING FOR PROPOSED BUILDINGS AND SITE LIGHTING TO BE DARK SKY FRIENDLY LIGHTING WITH A MINIMUM OF 1 FOOT CANDLE. SEE ARCHITECTURAL PLANS FOR FINAL LOCATIONS AND SPECIFICATIONS. LIGHTS TO BE LOCATED AT BUILDING ENTRANCES AND OVERHEAD DOORS FOR SAFETY.

- CONTRACTOR TO REFER TO GEOTECHNICAL ENGINEERING REPORT BY CLM GROUP ENGINEERING & ARCHITECTURE, P.L.L.C. DATED MARCH 18, 2021. REPORT IS INCLUDED IN THE BID PACKAGE. SUBMISSION OF A BID INDICATES THAT THE SITE CONTRACTOR AND THE GENERAL CONTRACTOR HAVE REVIEWED THE FINDINGS OF THE REPORT TEST PITS AND WILL PROVIDE ALL WORK IN CONFORMANCE WITH ITS RECOMMENDATIONS.
- THE TOWN OF ALABAMA IS TO BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO STARTING THE CONNECTION FOR THE NEW WATER SERVICE.
- CHLORINATION OF THE WATERLINE SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS AWWA C651.
- WATERLINE SHALL BE INSTALLED WITH A MINIMUM COVER OF 5.0' FROM PROPOSED GRADE.
- JOINT RESTRAINTS ARE REQUIRED ON ALL WATERLINE FITTINGS - SEE RESTRAINT LENGTH TABLES ON WATERLINE DETAIL SHEET.
- ANCHOR COUPLINGS WILL BE INSTALLED FOR ALL TEES, BENDS, VALVES AND HYDRANTS.
- A MINIMUM OF 12" OF HORIZONTAL AND 18" OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES. WATERLINE TO BE DEFLECTED AS NECESSARY TO PROVIDE MINIMUM OF 18" VERTICAL CLEARANCE.
- CONTRACTOR SHALL PLACE AND COMPACT MATERIAL AS SPECIFIED TO MAINTAIN A MINIMUM 2" FT. OR MINIMUM ALLOWABLE BY PIPE MANUFACTURER OF COVER OVER INSTALLED SANITARY SEWER, WATERLINE, STORM SEWER AND OTHER UTILITIES. MINIMUM OF 2" FT. OF COVER (OR MINIMUM ALLOWABLE BY PIPE MANUFACTURER) MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- TOWN OF ALABAMA AND GENESEE COUNTY HEALTH DEPARTMENT APPROVAL SHALL BE OBTAINED FOR THE BACKFLOW PREVENTION FOR THE WATER CONNECTIONS.
- SANITARY SEWER SHALL BE INSTALLED WITH A MINIMUM COVER OF 4.0' FROM PROPOSED GRADE.
- THE TOWN OF ALABAMA SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO STARTING THE CONNECTION FOR THE SANITARY SEWER SERVICE.
- POLYVINYL CHLORIDE (P.V.C.) PIPE AND FITTINGS FOR GRAVITY SEWERS SHALL MEET AND/OR EXCEED A S.T.M. SPECIFICATION D-3034 WITH A MINIMUM SDR-35 OR APPROVED EQUAL.
- ALL PROPOSED ELEVATIONS SHOWN HERE ON ARE FINISHED GRADE ELEVATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED RISE ELEVATIONS IN RELATION TO PROPOSED GRADE PRIOR TO INSTALLATION AND NOTIFYING DESIGN ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR IS TO OBTAIN PERMISSION TO ACCESS UTILITIES WITHIN THE RIGHT-OF-WAY AND/OR UNDER THE AUTHORITY OF OTHERS.
- STRIPPED TOPSOIL SHALL BE STOCKPILED IN AREAS SHOWN ON PLANS OR AS DIRECTED BY OWNER'S REPRESENTATIVE. THE PILE(S) SHALL BE SEEDED IN CONFORMANCE WITH PROJECT EROSION & SEDIMENT CONTROL PLAN AND DETAILS.
- BIODIVERSITY AREA PLANTINGS TYPE TO BE OBTAINED FROM TABLE H IN NATURE PLANT GUIDE FOR STORMWATER MANAGEMENT AREAS (NY) LOCATED IN APPENDIX H OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL. PLANTINGS MUST BE ZONE 2 COMPLIANT PLANT SELECTION SHALL BE DIVERSE. LAYOUT SHALL BE RANDOM AND NATURAL. PLANTINGS SHALL BE PLACED APPROX. 18" ON CENTER - SEE SAMPLE BIODIVERSITY AREA PLANTING PLAN.
- VEGETATED SWALES TO BE PLANTED WITH PERMANENT VEGETATION SEED MIXTURE AND MAINTAINED AT A 6" P.A. HEIGHT.
- CONTRACTOR TO KEEP CROSBY ROAD FREE OF DIRT AND DEBRIS AT ALL TIMES DURING CONSTRUCTION.
- JOB BENCHMARK AS NOTED ON PLANS.
- GEOTEXTILE IS REQUIRED OVER STORM SEWER ROADWAY CROSSINGS FOR TEN (10) FEET ON EITHER SIDE OF PIPE TO PROTECT AGAINST SETTLEMENT.
- ELEVATIONS AS SHOWN ARE BASED ON NAVD 83, AS ESTABLISHED FROM THE NEW YORK STATE RTN.
- CONTRACTOR SHALL DISPOSE OF ANY DEMOLITION OR CONSTRUCTION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- EQUIPMENT PADS TO BE DESIGNED BY OTHERS.

PARCEL "A"
A PORTION OF L 425 P.880
A PORTION OF SBL 10-1-42



1 SITE LAYOUT AND UTILITY PLAN
SCALE: 1" = 60'-0"



POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
5000	1125631.3878	1196392.6694	672.30	MAGNAN
5001	1123663.9105	1196266.7062	671.81	MAGNAN

MAP REFERENCES:

PROPOSED BOUNDARY PARCEL A, A PORTION OF SBL 10-1-142 BOUNDARY SURVEY PART OF LOT 14, TWP 13, RGE 4 OF THE TONAWANDA RESERVATION, TOWN OF ALABAMA, COUNTY OF GENESSEE AND STATE OF NEW YORK, PREPARED BY FRANDINA ENGINEERING AND LAND SURVEYING, P.C., DATED FEBRUARY 16, 2021, JOB No. 3646-3B.

TOPOGRAPHIC SURVEY PART OF LOT 14, TWP 13, RGE 4 OF THE TONAWANDA RESERVATION, TOWN OF ALABAMA, COUNTY OF GENESSEE AND STATE OF NEW YORK, PREPARED BY FRANDINA ENGINEERING AND LAND SURVEYING, P.C., DATED FEBRUARY 26, 2021, JOB No. 3646-3B.

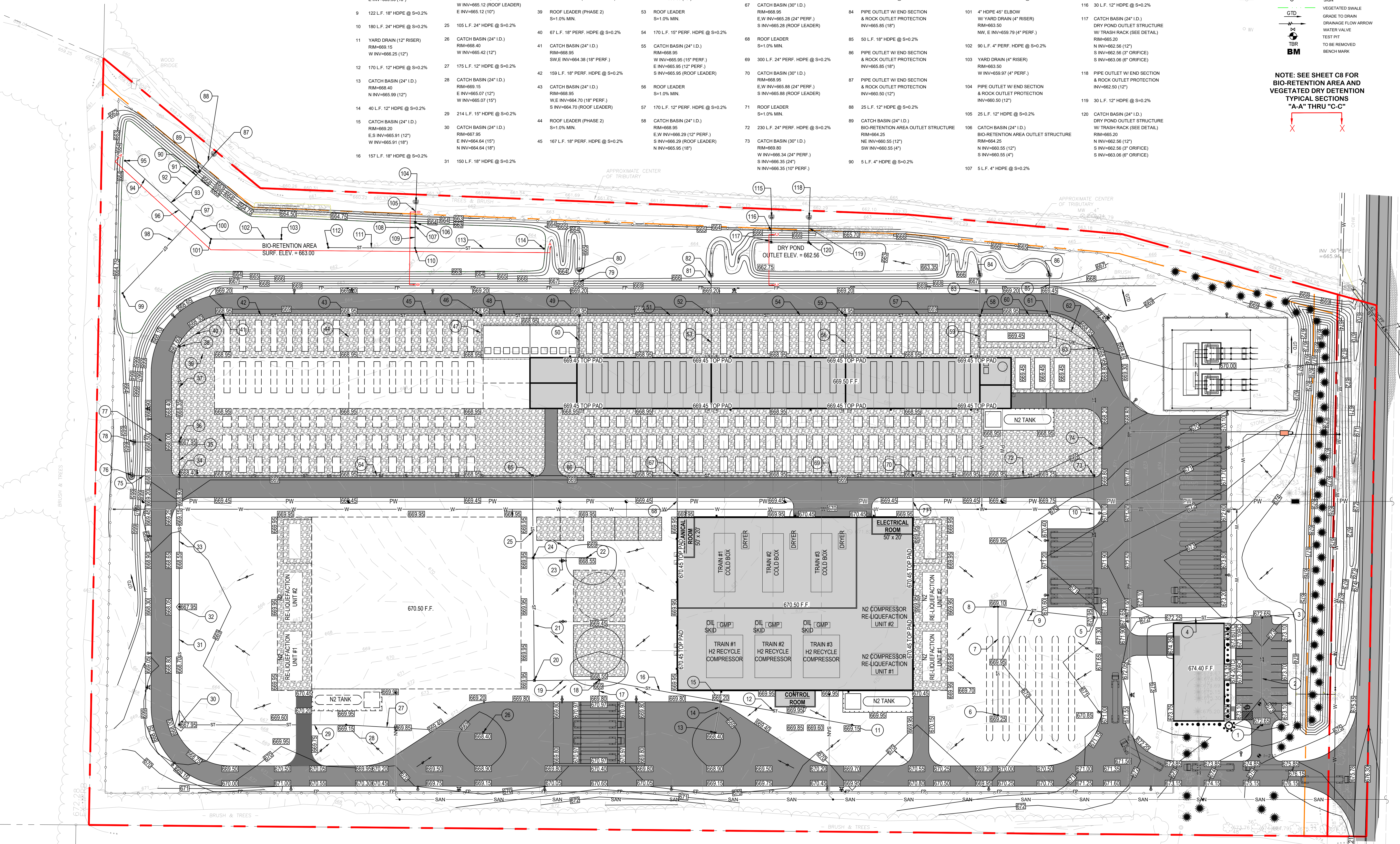
STORM STRUCTURE TABLE

1	CATCH BASIN (24" I.D.) RIM=672.05 N INV=667.41 (12')	17	27' L.F. 6" HDPE @ S=0.2% (MIN.) (DRAIN FROM SCALES)	32	CATCH BASIN (30" I.D.) RIM=669.25 S INV=664.34 (24')	46	CATCH BASIN (24" I.D.) RIM=668.95 W.E. INV=665.03 (18' PERF.) S INV=665.03 (ROOF LEADER)	59	ROOF LEADER S=1.0% MIN.	74	161' L.F. 10" PERF. HDPE @ S=0.2%	91	BIO-RETENTION AREA ELBOW ASSEMBLY N (TOP) INV=659.56 (4' PERF.) SW (BOTTOM) INV=659.56 (4' PERF.)	108	BIO-RETENTION AREA ELBOW ASSEMBLY N (TOP) INV=659.56 (4' PERF.) S (BOTTOM) INV=659.56 (4' PERF.)				
2	135' L.F. 12" HDPE @ S=0.2%	18	CATCH BASIN (24" I.D.) RIM=668.55 W.E. INV=665.60 (18' PERF.) S INV=665.60 (8')	34	CATCH BASIN (30" I.D.) RIM=669.85 W INV=664.01 (24' PERF.) N INV=664.01 (18')	47	ROOF LEADER (PHASE 2) S=1.0% MIN.	60	87' L.F. 12" PERF. HDPE @ S=0.2%	76	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=663.90 (18')	93	4"X4"X4" HDPE TEE NW, NE, SE INV=659.65	110	4"X4"X4" HDPE TEE W/ YARD DRAIN (4" RISER) RIM=663.50 N, E, W INV=659.61 (4' PERF.)	117	111' L.F. 4" PERF. HDPE @ S=0.2%		
3	CATCH BASIN (24" I.D.) RIM=672.05 W.S. INV=667.14 (12')	19	83' L.F. 18" HDPE @ S=0.2%	35	40' L.F. 24" PERF. HDPE @ S=0.0%	48	124' L.F. 18" PERF. HDPE @ S=0.2%	61	CATCH BASIN (24" I.D.) RIM=668.95 SE INV=666.46 (12' PERF.) S INV=665.95 (18')	77	57' L.F. 18" HDPE @ S=0.2%	84	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=663.90 (18')	97	4"X4"X4" HDPE TEE NW, SE, SW INV=659.72 (4' PERF.)	112	YARD DRAIN (4" RISER) RIM=663.50 E INV=659.63 (4' PERF.)		
4	213' L.F. 12" HDPE @ S=0.2%	20	CATCH BASIN (30" I.D.) RIM=669.85 E INV=665.43 (18' PERF.) W INV=664.01 (24' PERF.) S INV=665.43 (24')	36	CATCH BASIN (30" I.D.) RIM=667.95 N INV=664.01 (18' PERF.) W INV=664.01 (24' PERF.) S INV=664.01 (24' PERF.)	49	CATCH BASIN (24" I.D.) RIM=668.95 W.E. INV=665.28 (18' PERF.) N INV=664.01 (18')	62	89' L.F. 10" PERF. HDPE @ S=0.2%	78	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=663.90 (18')	85	YARD DRAIN (4" RISER) RIM=663.50 SE INV=659.81 (4' PERF.)	92	4"X4"X4" HDPE TEE NW, SE, SW INV=659.72 (4' PERF.)	104	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=662.50 (12')	111	111' L.F. 4" PERF. HDPE @ S=0.2%
5	CATCH BASIN (30" I.D.) RIM=670.95 E INV=666.71 (12' PERF.) W INV=666.71 (18' PERF.) N INV=666.71 (24')	21	157' L.F. 24" HDPE @ S=0.2%	37	120' L.F. 18" PERF. HDPE @ S=0.2%	50	ROOF LEADER S=1.0% MIN.	63	CATCH BASIN (24" I.D.) RIM=668.95 NW INV=666.60 (10' PERF.) S INV=666.60 (10' PERF.)	80	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=663.90 (18')	87	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=665.85 (18')	94	YARD DRAIN (4" RISER) RIM=663.50 W INV=659.97 (4' PERF.)	101	4" HDPE 45' ELBOW W/ TRASH RACK (4" RISER) RIM=663.50 NW, E INV=659.79 (4' PERF.)	108	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=662.50 (12')
6	YARD DRAIN (15" RISER) RIM=669.25 N INV=667.23 (15')	22	YARD DRAIN (10" RISER) RIM=668.55 W INV=666.26 (10')	38	CATCH BASIN (24" I.D.) RIM=667.60 S.NE INV=664.25 (18' PERF.) S INV=664.25 (ROOF LEADER)	51	167' L.F. 18" PERF. HDPE @ S=0.2%	64	451' L.F. 24" PERF. HDPE @ S=0.2%	81	50' L.F. 18" HDPE @ S=0.2%	88	25' L.F. 12" HDPE @ S=0.2%	95	YARD DRAIN (4" RISER) RIM=663.50 W INV=659.97 (4' PERF.)	102	100' L.F. 4" PERF. HDPE @ S=0.2%	109	30' L.F. 12" HDPE @ S=0.2%
7	138' L.F. 15" HDPE @ S=0.2%	23	70' L.F. 10" HDPE @ S=0.2%	39	ROOF LEADER (PHASE 2) S=1.0% MIN.	52	CATCH BASIN (24" I.D.) RIM=668.95 E.W. INV=666.20 (12' PERF.) S INV=666.20 (ROOF LEADER)	65	CATCH BASIN (24" I.D.) RIM=668.95 E.W. INV=664.91 (24' PERF.) S INV=664.91 (24' PERF.)	82	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=665.85 (18')	89	CATCH BASIN (24" I.D.) RIM=668.95 NE INV=660.55 (12' PERF.) SW INV=660.55 (4')	96	35' L.F. 4" PERF. HDPE @ S=0.2%	103	YARD DRAIN (4" RISER) RIM=663.50 W INV=659.97 (4' PERF.)	110	25' L.F. 12" HDPE @ S=0.2%
8	YARD DRAIN (18" RISER) RIM=669.10 S INV=669.95 (15' PERF.) E INV=669.95 (18')	24	CATCH BASIN (30" I.D.) RIM=669.85 S.N INV=666.12 (24' PERF.) W INV=665.12 (ROOF LEADER)	40	67' L.F. 18" PERF. HDPE @ S=0.2%	53	ROOF LEADER S=1.0% MIN.	66	183' L.F. 24" PERF. HDPE @ S=0.2%	83	50' L.F. 18" HDPE @ S=0.2%	90	5' L.F. 4" HDPE @ S=0.2%	98	125' L.F. 4" PERF. HDPE @ S=0.2%	104	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=662.50 (12')	111	30' L.F. 12" HDPE @ S=0.2%
9	122' L.F. 18" HDPE @ S=0.2%	25	100' L.F. 12" HDPE @ S=0.2%	41	CATCH BASIN (24" I.D.) RIM=668.95 SW.E INV=664.38 (18' PERF.)	54	170' L.F. 15" PERF. HDPE @ S=0.2%	67	CATCH BASIN (30" I.D.) RIM=669.85 E.W. INV=665.28 (24' PERF.) S INV=665.28 (ROOF LEADER)	84	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=665.85 (18')	91	103	YARD DRAIN (4" RISER) RIM=663.50 W INV=659.97 (4' PERF.)	105	25' L.F. 12" HDPE @ S=0.2%	112	CATCH BASIN (24" I.D.) RIM=668.50 W TRASH RACK (SEE DETAIL) RIM=665.20 N INV=662.56 (12' ORIFICE) S INV=662.56 (3" ORIFICE)	
10	180' L.F. 24" HDPE @ S=0.2%	26	CATCH BASIN (24" I.D.) RIM=668.40 W INV=666.25 (12')	42	159' L.F. 18" PERF. HDPE @ S=0.2%	55	CATCH BASIN (24" I.D.) RIM=668.95 W INV=665.95 (15' PERF.) E.W. INV=665.95 (ROOF LEADER)	70	CATCH BASIN (30" I.D.) RIM=669.85 E.W. INV=665.88 (24' PERF.) S INV=665.88 (ROOF LEADER)	86	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=665.85 (18')	92	4"X4"X4" HDPE TEE NW, SE, SW INV=659.72 (4' PERF.)	99	YARD DRAIN (4" RISER) RIM=663.50 W INV=659.97 (4' PERF.)	106	116	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=662.50 (12')	
11	YARD DRAIN (12" RISER) RIM=669.15 W INV=665.42 (12')	27	175' L.F. 12" HDPE @ S=0.2%	43	CATCH BASIN (24" I.D.) RIM=668.95 W.E. INV=664.70 (18' PERF.) S INV=664.70 (ROOF LEADER)	56	ROOF LEADER S=1.0% MIN.	73	CATCH BASIN (30" I.D.) RIM=669.80 W INV=666.34 (24' PERF.) S INV=666.34 (24' PERF.)	87	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=665.85 (18')	93	4"X4"X4" HDPE TEE NW, SE, SW INV=659.72 (4' PERF.)	100	100' L.F. 4" PERF. HDPE @ S=0.2%	107	30' L.F. 12" HDPE @ S=0.2%		
12	170' L.F. 12" HDPE @ S=0.2%	28	CATCH BASIN (24" I.D.) RIM=668.40 W INV=665.42 (12')	44	ROOF LEADER (PHASE 2) S=1.0% MIN.	57	170' L.F. 12" PERF. HDPE @ S=0.2%	71	ROOF LEADER S=1.0% MIN.	88	25' L.F. 12" HDPE @ S=0.2%	94	YARD DRAIN (4" RISER) RIM=663.50 W INV=659.97 (4' PERF.)	101	4" HDPE 45' ELBOW W/ TRASH RACK (4" RISER) RIM=663.50 NW, E INV=659.79 (4' PERF.)	108	116	PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=662.50 (12')	
13	CATCH BASIN (24" I.D.) RIM=668.40 N INV=666.99 (12')	29	214' L.F. 15" HDPE @ S=0.2%	45	167' L.F. 18" PERF. HDPE @ S=0.2%	58	CATCH BASIN (24" I.D.) RIM=668.95 E.W. INV=666.20 (12' PERF.) S INV=666.20 (ROOF LEADER)	72	230' L.F. 24" PERF. HDPE @ S=0.2%	89	CATCH BASIN (24" I.D.) RIM=668.95 NE INV=660.55 (12' PERF.) SW INV=660.55 (4')	95	YARD DRAIN (4" RISER) RIM=663.50 W INV=659.97 (4' PERF.)	102	100' L.F. 4" PERF. HDPE @ S=0.2%	109	30' L.F. 12" HDPE @ S=0.2%		
14	40' L.F. 12" HDPE @ S=0.2%	30	CATCH BASIN (24" I.D.) RIM=669.20 E.S INV=665.91 (12' PERF.) W INV=665.91 (18' PERF.) N INV=664.64 (18')	46	167' L.F. 18" PERF. HDPE @ S=0.2%	59	ROOF LEADER (PHASE 2) S=1.0% MIN.	74	161' L.F. 10" PERF. HDPE @ S=0.2%	90	5' L.F. 4" HDPE @ S=0.2%	96	35' L.F. 4" PERF. HDPE @ S=0.2%	103	YARD DRAIN (4" RISER) RIM=663.50 W INV=659.97 (4' PERF.)	110	25' L.F. 12" HDPE @ S=0.2%		
15	CATCH BASIN (24" I.D.) RIM=669.20 E.S INV=665.91 (12' PERF.) W INV=665.91 (18' PERF.) N INV=664.64 (18')	31	150' L.F. 18" HDPE @ S=0.2%																

LEGEND (NTS)

	GAS
	UNDERGROUND ELECT/TELE CABLE
	OVERHEAD ELECT/TELE
	WATER
	SANITARY SEWER (DOMESTIC)
	STORM SEWER (PROCESS WASTE)
	STORM SEWER
	CONTOUR
	SPOT ELEVATIONS
	FENCE
	PROPERTY/ROW LINE EASEMENT
	SETBACK
	SELECT BACKFILL
	UTILITY POLE
	LIGHT
	ELECTRIC MANHOLE
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN (ROADWAY)
	REAR YARD DRAIN (INLET)
	HYDRANT
	SANITARY CLEANOUT
	SIGN
	VEGETATED SWALE
	GRADE TO DRAIN
	DRAINAGE FLOW ARROW
	WATER VALVE
	TEST PIT
	TO BE REMOVED
	BENCHMARK

NOTE: SEE SHEET C8 FOR BIO-RETENTION AREA AND VEGETATED DRY DETENTION TYPICAL SECTIONS "A-A" THRU "C-C"



1 GRADING & DRAINAGE PLAN
SCALE: 1" = 60'-0"

PLUG POWER

OWNER
PLUG POWER
968 ALBANY SHAKER ROAD
LATHAM, NEW YORK 12110

PROJECT
HYDROGEN PRODUCTION FACILITY
(STAMP - PROJECT GATEWAY)
ALABAMA, NEW YORK 14013

ATSI

CONTACT
ATSI, INC.
415 COMMERCE DRIVE
ALBANY, NY 12228
O. 518.691.9200
F. 518.691.9200
ATSI.COM

SCHEID ARCHITECTURAL

CONTACT
111 ELMWOOD AVENUE
BUFFALO, NY 14201
O. 716.864.0359
F. 716.864.6414
SCHEIDIA.COM

ISSUE DATE	DESCRIPTION
05/26/2021	SITE PLAN SUBMISSION

FOR REFERENCE ONLY
NOT FOR CONSTRUCTION

INVICTUS
Civil Engineering, P.C.

STATE OF NEW YORK
Professional Engineer

GRADING & DRAINAGE PLAN

PROJECT NUMBER
2021-001
PLOT DATE
5/25/2021 7:15:36 AM
SHEET
C3



CONTACT
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CONTACT
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SCHEID.AIA.COM

ISSUE DATE DESCRIPTION
05/26/2021 SITE PLAN SUBMISSION

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CONSTRUCTION



SEAL/SIGNATURE



Following is an excerpt from the New York State Education Law, Article 145, Section 7209-b and applies to this drawing. It is a violation of this law for any person, unless he is acting under the direct supervision of a licensed Architect or a licensed professional engineer to alter in any way, or to permit another person to alter in any way, an item bearing the seal of an architect or engineer, or to alter the seal, the signature or engineer's name after the seal and the notation "ALtered BY" followed by his signature and date of such alteration and a specific description of the alteration. This drawing is copyrighted under the United States Copyright Law and is the property of Scheid Architectural. The use of this drawing in any form without written permission is strictly prohibited.

SHEET TITLE
EROSION & SEDIMENT CONTROL PLAN

PROJECT NUMBER
2021-001
PLOT DATE
5/25/2021 7:07:53 AM
SHEET

C4

LEGEND (NTS)	
	GAS
	UNDERGROUND ELECT/TELE CABLE
	OVERHEAD ELECT/TELE
	WATER
	SANITARY SEWER (DOMESTIC)
	SANITARY SEWER (PROCESS WASTE)
	STORM SEWER
	CONTOUR
	SPOT ELEVATIONS
	FENCE
	PROPERTY/ROW LINE
	EASEMENT
	SETBACK
	SELECT BACKFILL
	UTILITY POLE
	LIGHT
	ELECTRIC MANHOLE
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN (ROADWAY)
	REAR YARD DRAIN (INLET)
	HYDRANT
	SANITARY CLEANOUT
	SIGN
	VEGETATED SWALE
	GRADE TO DRAIN
	DRAINAGE FLOW ARROW
	WATER VALVE
	TEST PIT
	TO BE REMOVED BENCHMARK
	CLEARING LIMIT
	SILT FENCE/FIBER ROLL
	CONSTRUCTION ENTRANCE
	PERMANENT VEGETATION
	TEMPORARY VEGETATION
	INLET PROTECTION
	CHECK DAM



1 EROSION & SEDIMENT CONTROL PLAN
SCALE: 1" = 60'-0"





FOR REFERENCE ONLY
NOT FOR CONSTRUCTION



Following is an excerpt from the New York State Education Law, Article 145, Section 7209 and applies to the drawing. It is a violation of this law for any person unless he is acting under the direct supervision of a licensed architect or a licensed professional engineer to alter an item in any way. An item bearing the seal of an architect or engineer is altered, the altering architect or engineer shall file the seal and the revision, "ALTERED BY" followed by his signature and date of such alteration and a specific description of the alteration. This drawing is copyrighted under the United States Copyright Law and is the property of Scheid Architectural. The use of this drawing in any form without written permission is strictly prohibited.

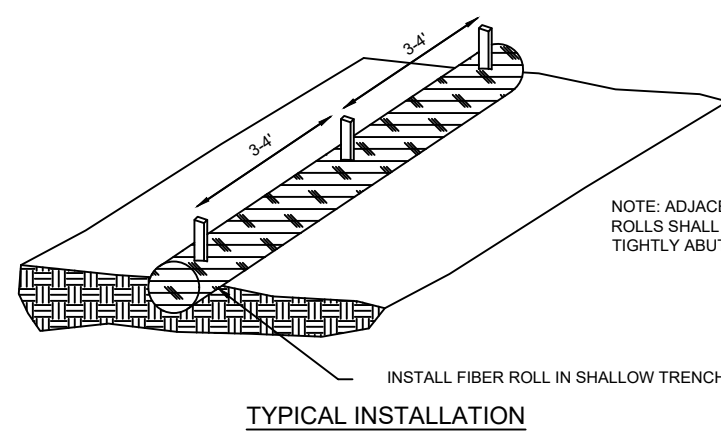
SHEET TITLE
**DETAILS - SITE,
PAVING AND EROSION
& SEDIMENT
CONTROL**

EROSION CONTROL NOTES

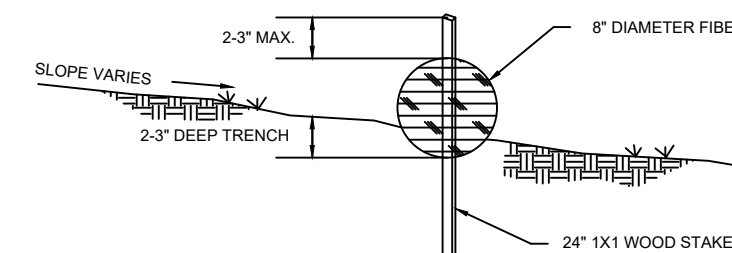
- 1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
- 2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS"
- 3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- 4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
- 5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO TOPSOIL.
- 6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONTAINERS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- 7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 6 INCHES IN THICKNESS.
- 8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
- 10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 11. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

MIXTURE	RATE PER 1,000 SQ. FT. (LBS.)
KENTUCKY BLUEGRASS	0.50
CREeping RED FESCUE	0.50
PERENNIAL RYEGRASS	0.20

SEED MIXTURE FOR PERMANENT VEGETATION



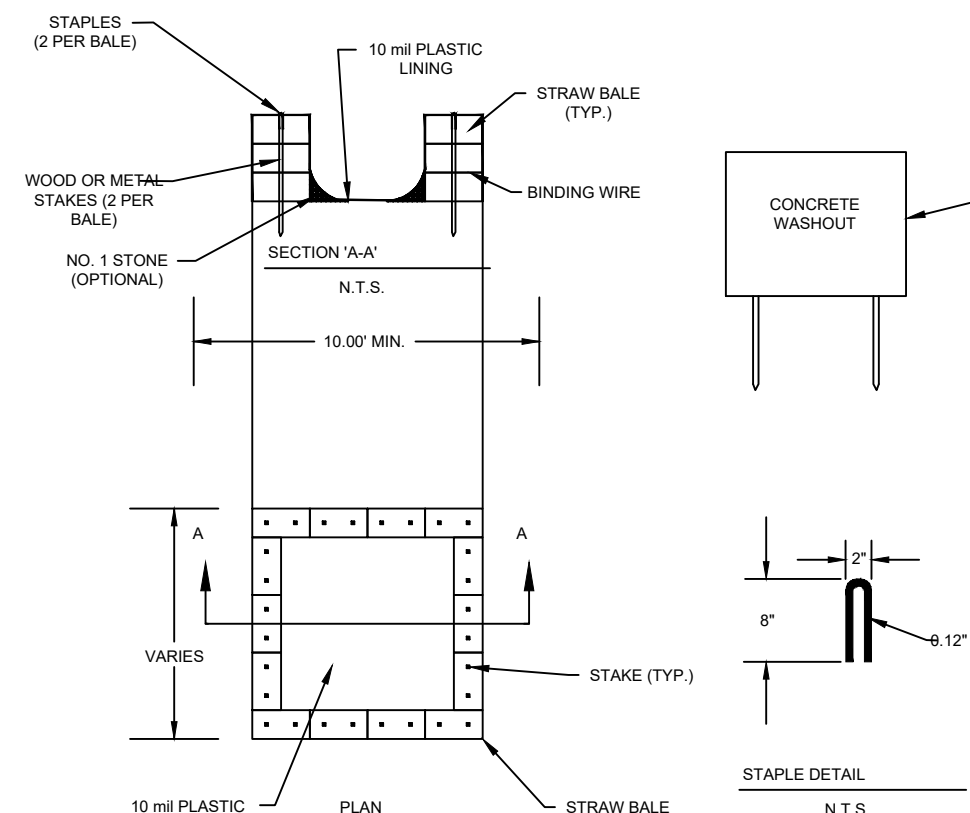
TYPICAL INSTALLATION



ENTRENCHMENT DETAIL

TYPICAL FIBER ROLL INSTALLATION

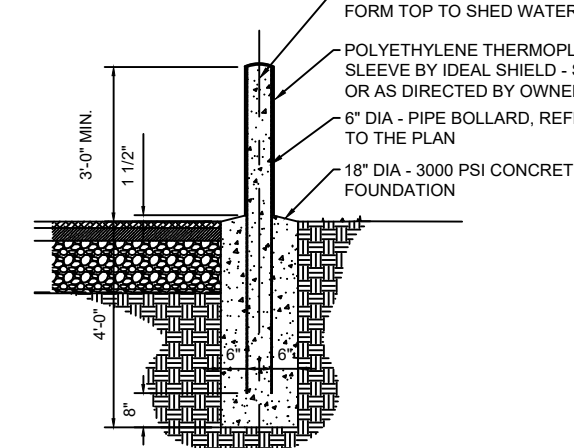
N.T.S.



TYPICAL ABOVE GRADE CONCRETE WASHOUT INSTALLATION DETAIL

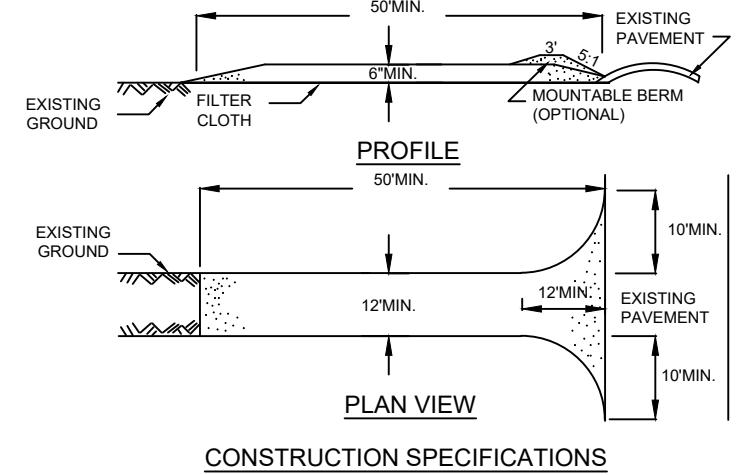
TYPICAL ABOVE GRADE CONCRETE WASHOUT INSTALLATION DETAIL

N.T.S.



TYPICAL BOLLARD SECTION

N.T.S.

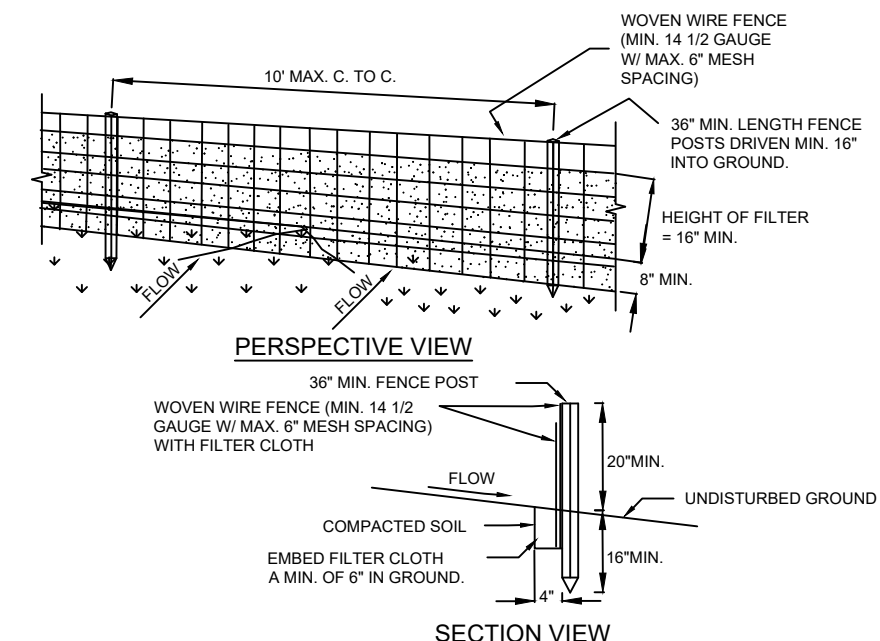


CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT SINGLE ENTRANCE TO SITE.
- 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOVABLE BERM WITH 1" SLOPES ON 7:1 SLOPES ON PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT (SPILLED, DROPPED, WASHED OR TRACKED) ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.

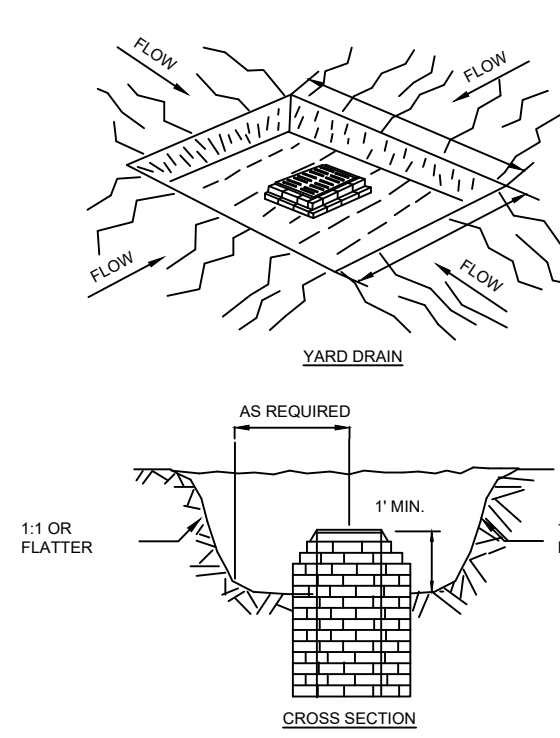


CONSTRUCTION SPECIFICATIONS

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER 1" OR 1 1/2" TYPE OR HARDWOOD.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA 140X, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
- 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGEST" DEVELOPS IN THE SILT FENCE.

SILT FENCE DETAIL

N.T.S.

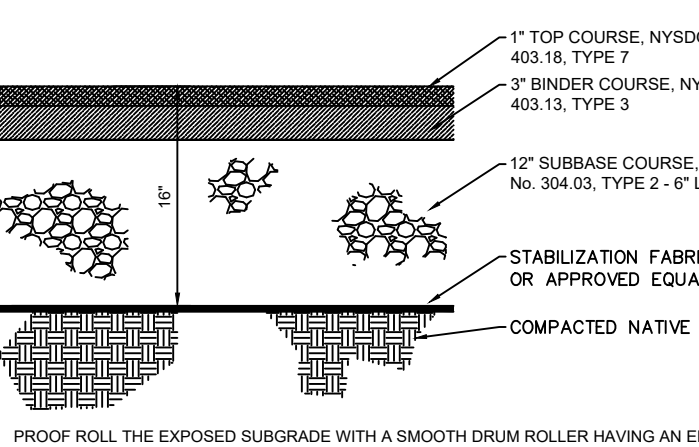


CONSTRUCTION SPECIFICATIONS

- 1. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 2. THE VOLUME OF SEDIMENT STORAGE SHALL BE 1800 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
- 3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- 4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
- 5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- 6. ALL CUT SLOPES SHALL BE 1:1 OR FLATTER.
MAXIMUM DRAINAGE AREA: 3 ACRES

EXCAVATED INLET PROTECTION

N.T.S.



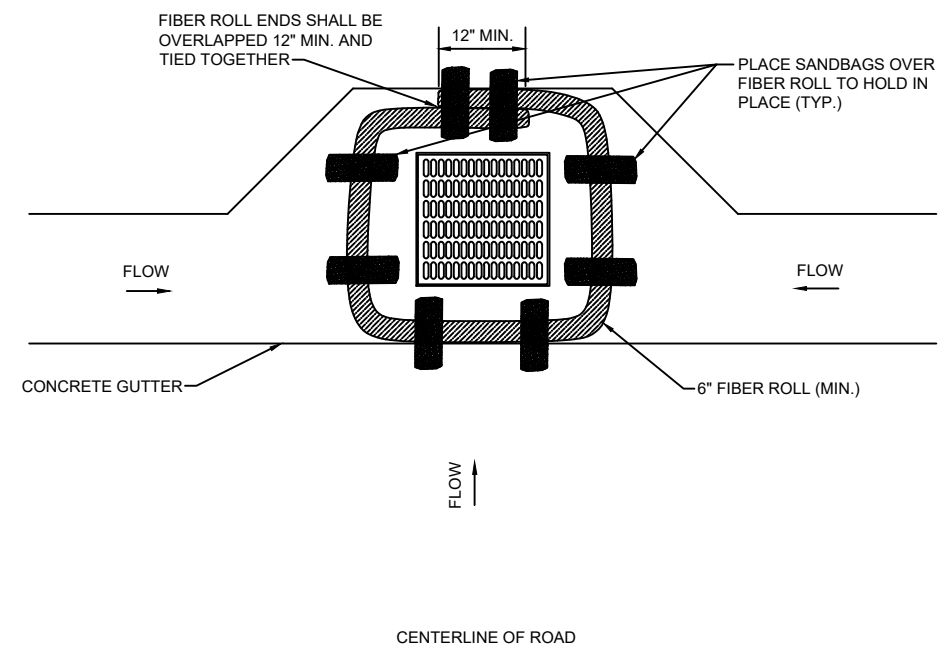
PROOF ROLL THE EXPOSED SUBGRADE WITH A SMOOTH DRUM ROLLER HAVING AN EFFECTIVE WEIGHT FOR OF AT LEAST 600LBS. ANY AREAS EXHIBITING WEAVING, YIELDING, RUTTING, OR BOLLING SHOULD BE REWORKED BY OVER EXCAVATING AND REPLACEMENT WITH STRUCTURAL FILL COMPACTED TO 95% MP.

CONTRACTOR SHALL FURNISH A MINIMUM OF 5 PASSES OF A SMOOTH DRUM ROLLER HAVING AN EFFECTIVE WEIGHT OF AT LEAST 600LBS. THE FINISHED SURFACE SHOULD BE UNIFORM AND DENSE AND COMPACTED TO 95% MP, WITH A MOISTURE RANGE OF 2% OF OPTIMUM CONTENT.

OWNER/CONTRACTOR RESPONSIBLE FOR REVIEW OF GEOTECHNICAL REPORT OR TEST FITS AND ANY DEVIATION FROM RECOMMENDED PAVEMENT SECTION.

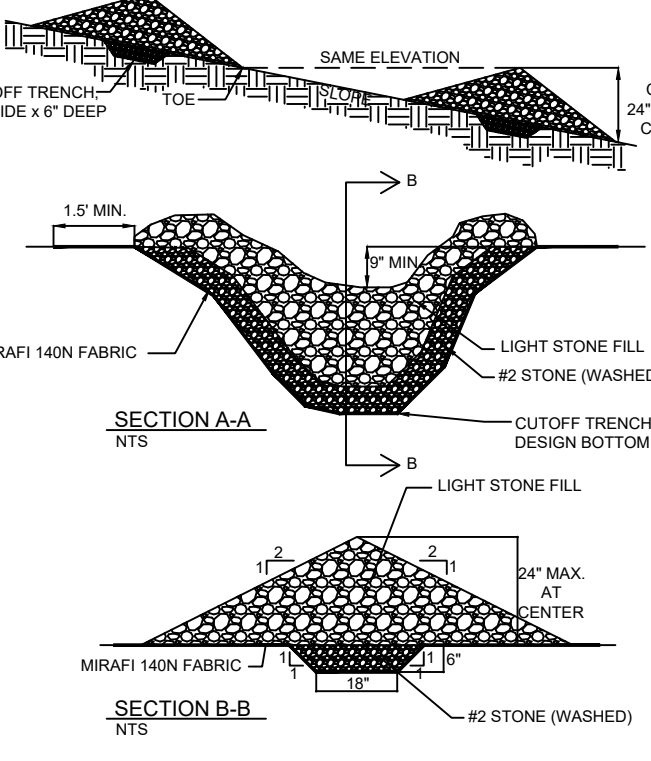
HEAVY DUTY PAVEMENT*

N.T.S.



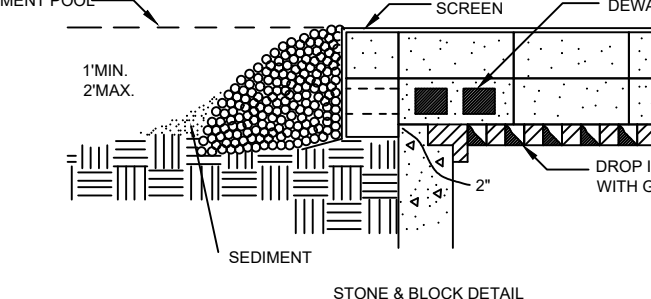
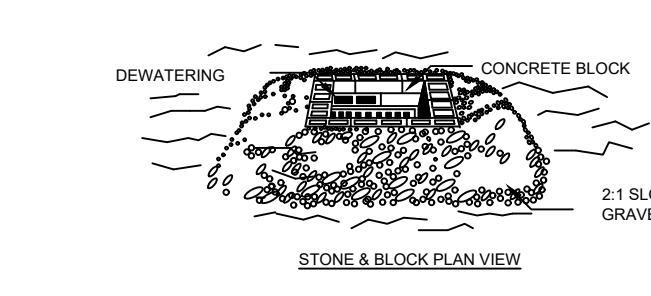
FIBER ROLL CURB INLET PROTECTION

N.T.S.



CHECK DAM DETAIL

N.T.S.



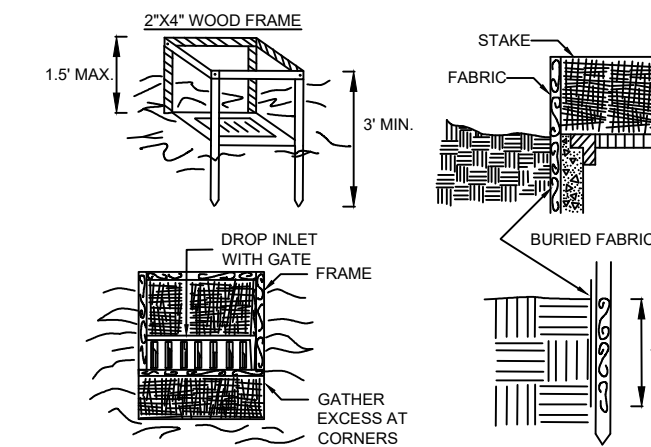
CONCRETE WALKS & PADS TYP. SECTION

N.T.S.

- 1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
- 2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- 3. USE CLEAN STONE OR GRAVEL, 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
- 4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

STONE AND BLOCK INLET PROTECTION

N.T.S.

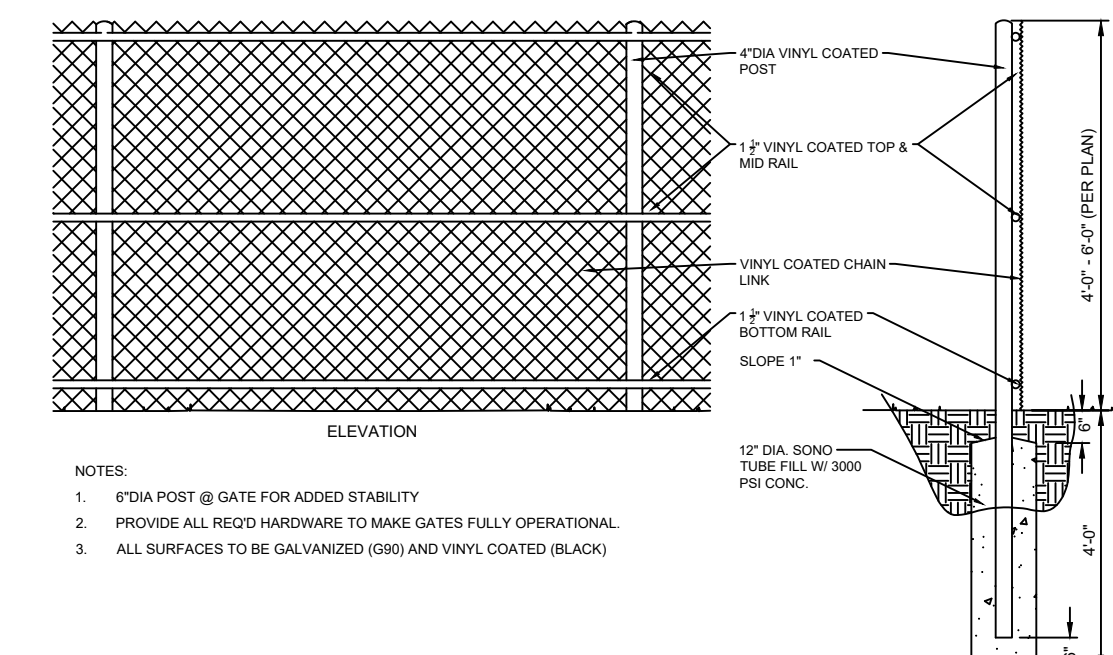


CONSTRUCTION SPECIFICATIONS

- 1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- 2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- 3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
- 4. STAKE SPACERS EVENLY AROUND INLET FEET FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPACERS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- 5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND "BACKFILLED" IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- 6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC OR OVER FLOW STABILITY.
MAXIMUM DRAINAGE AREA: 1 ACRE

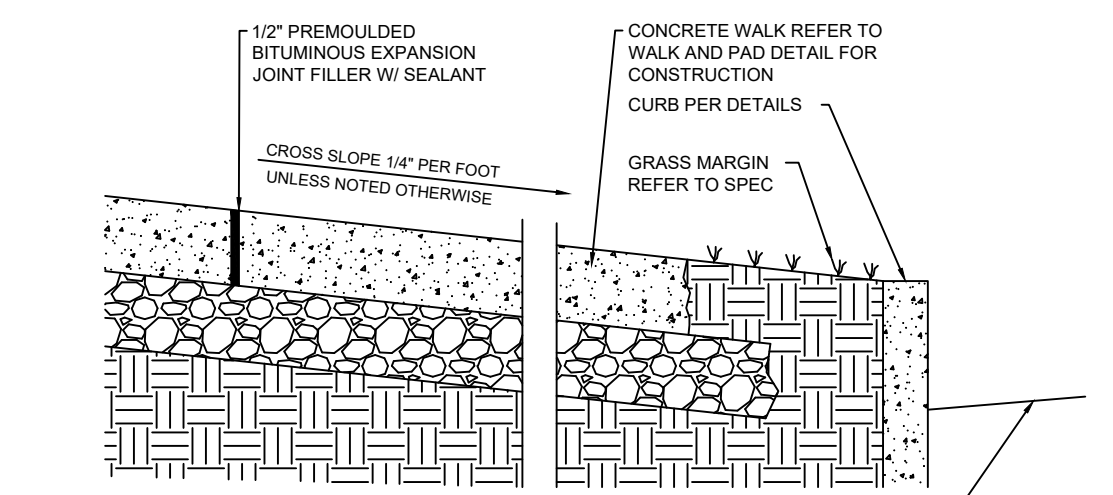
FILTER FABRIC DROP INLET PROTECTION

N.T.S.



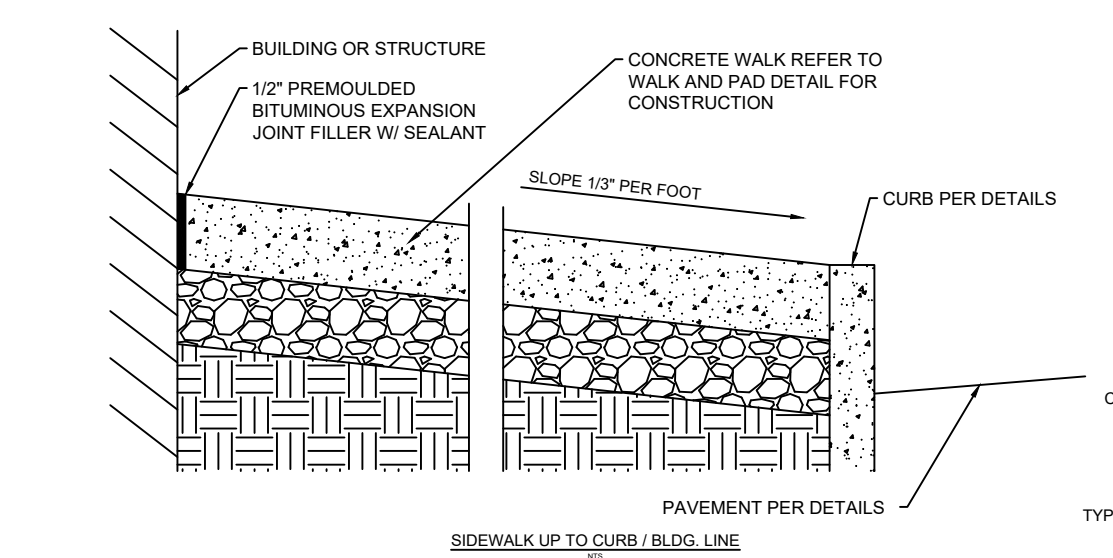
TYPICAL CHAIN LINK FENCE DETAIL

N.T.S.



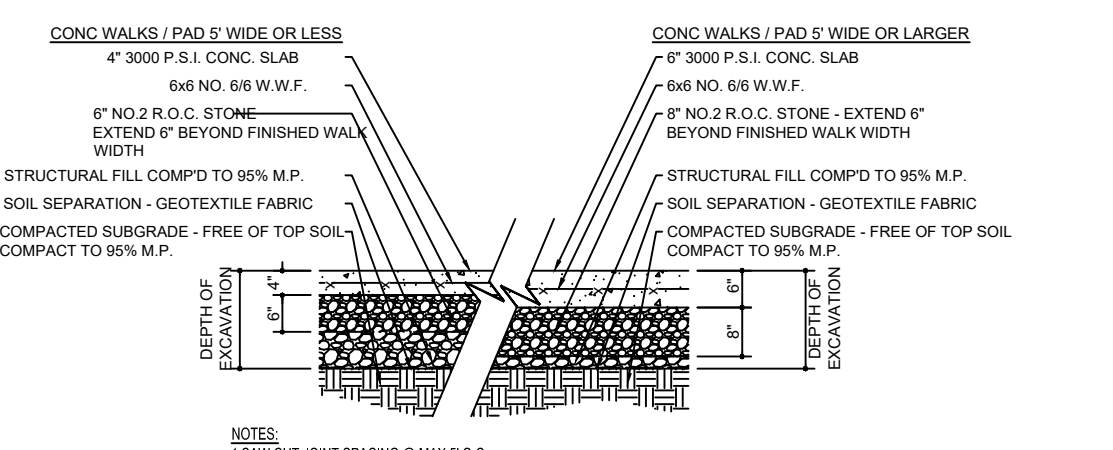
TYPICAL HC PARKING STALL AND SIGNAGE

N.T.S.



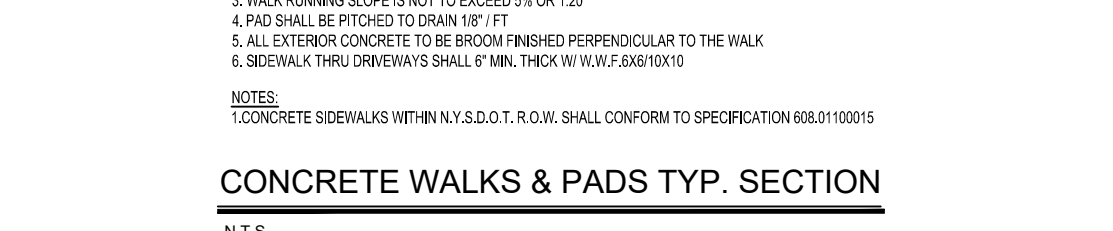
INLINE CURB RAMP DETAIL

N.T.S.



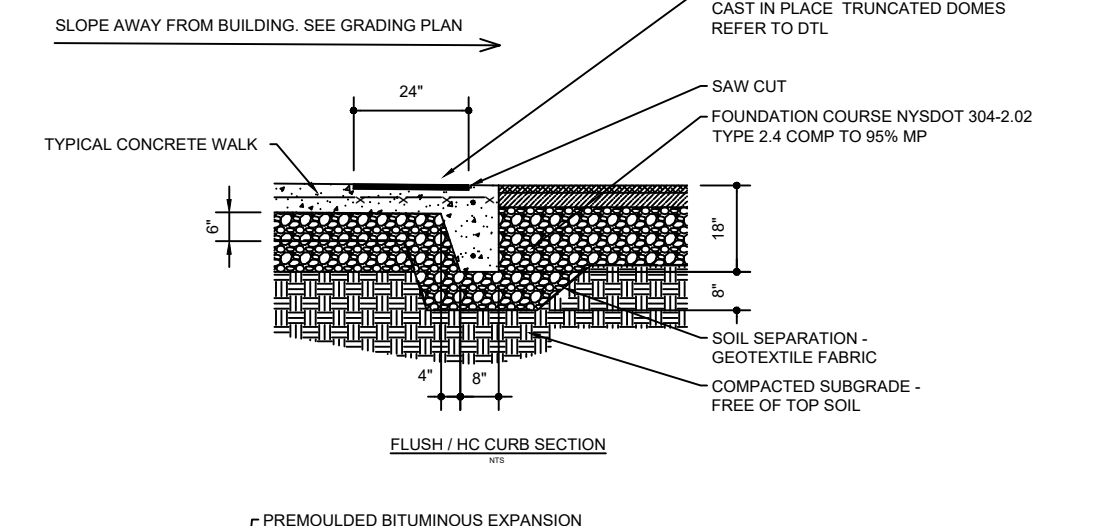
CONCRETE WALKS & PADS TYP. SECTION

N.T.S.



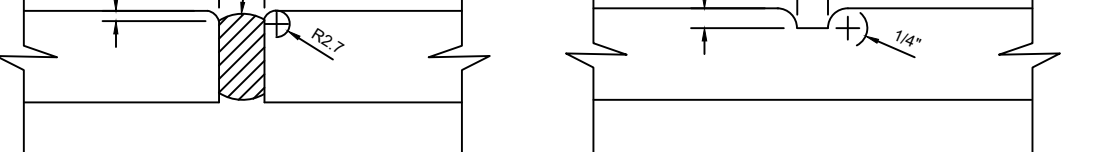
CONCRETE WALKS & PADS TYP. SECTION

N.T.S.



CONCRETE WALKS & PADS TYP. SECTION

N.T.S.



CONCRETE WALKS & PADS TYP. SECTION

N.T.S.



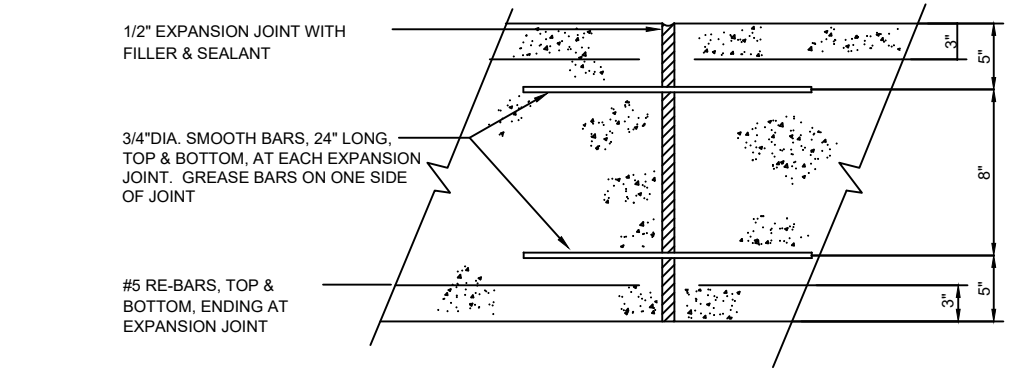
CONCRETE WALKS & PADS TYP. SECTION

N.T.S.



CONCRETE CURB DETAIL

N.T.S.

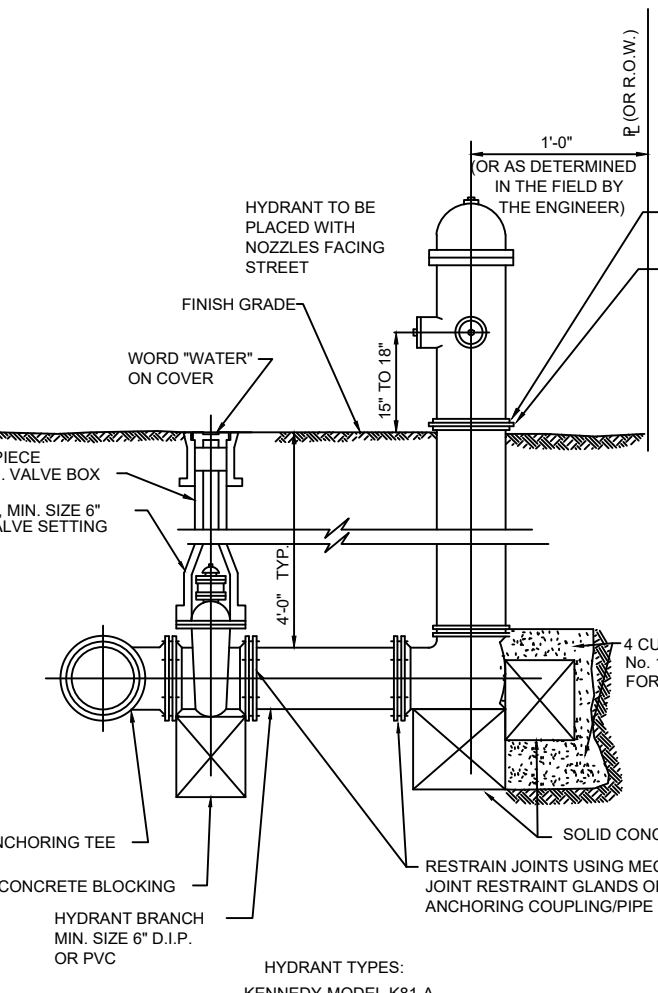


CONCRETE CURB DETAIL

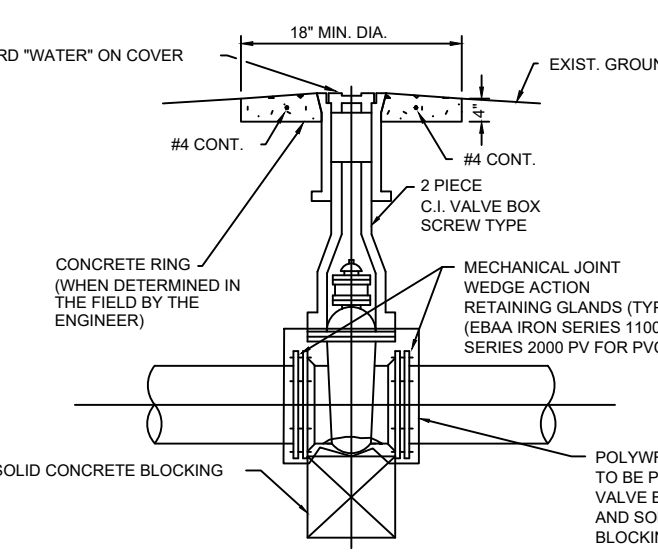
N.T.S.

WATERLINE NOTES

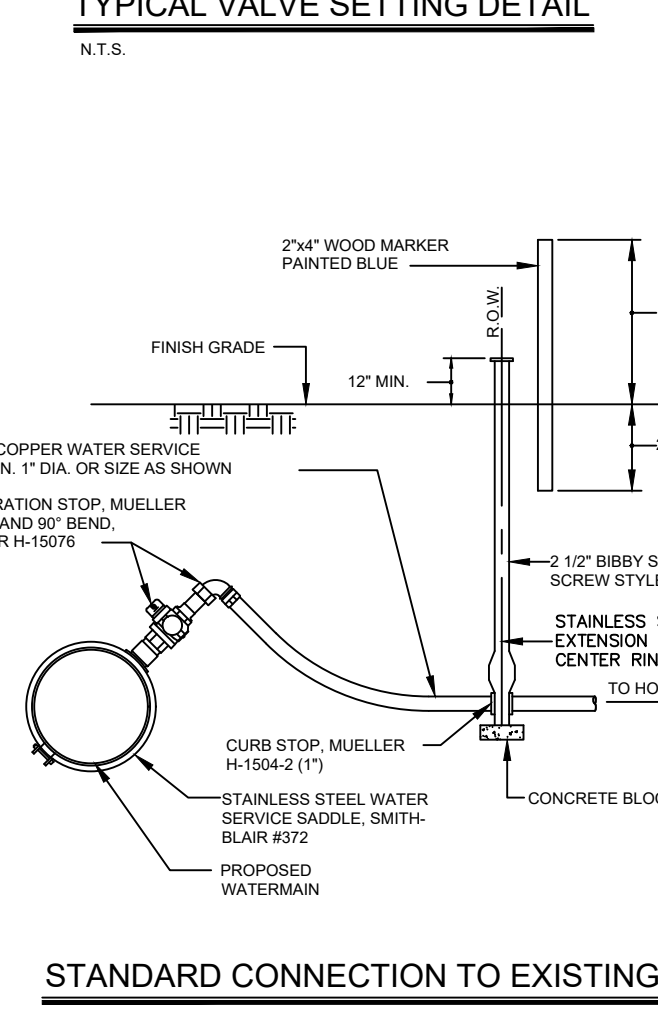
- ALL WATERLINE MATERIALS, CONSTRUCTION, INSTALLATION AND TESTING TO COMPLY WITH CURRENT TOWN OF ALABAMA AND GENESEE COUNTY SPECIFICATIONS AND ORDINANCES.
- CONTRACTOR SHALL SECURE ALL PERMITS AT HIS OWN EXPENSE.
- MATERIAL FOR WATERMANS:
 - POLYVINYL CHLORIDE (P.V.C.) PLASTIC MUNICIPAL WATER PIPE WITH INTEGRAL BELL AND SPOUT JOINTS, PIPE SHALL CONFORM TO THE LATEST REVISION OF AWWA C-600 SPECIFICATION AND SHALL BE CLASS 150, DR 18.
 - CEMENT LINED DUCTILE IRON PIPE MINIMUM THICKNESS CLASS 52 WITH 150 PSI WORKING PRESSURE AND SHALL CONFORM TO AWWA SPECIFICATION C 151 LATEST REVISION. THE PIPE SHALL BE ENGRAVED WITH A MINIMUM 8 MIL POLYETHYLENE WRAP AS PER AWWA C 105 SPECIFICATION TYPE MECHANICAL JOINT TEES AND NIPPLES.
- HYDRANTS SHALL BE "BAGGED" UNTIL READY FOR USE.
- CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING PROPER TEST EQUIPMENT AND PERFORM A TWO (2) HOUR, 150 PSI HYDROSTATIC TEST OF THE WATERLINE IN THE PRESENCE OF AN OWNER'S REPRESENTATIVE. CONTRACTOR TO NOTIFY OWNER A MINIMUM OF 48 HOURS PRIOR TO TESTING.
- AFTER THE WATERLINE HAS BEEN HYDROSTATICALLY TESTED AND APPROVED, THE CONTRACTOR WILL BE RESPONSIBLE TO CHLORINATE THE LINE IN STRICT ACCORDANCE WITH AWWA C651-LATEST REVISION. THE CONTRACTOR WILL BE RESPONSIBLE TO HIRE AN APPROVED INDEPENDENT TEST LABORATORY TO TAKE THE APPROPRIATE NUMBER OF SAMPLES, AND CERTIFY TO THE TOWN OF ALABAMA, AND GENESEE COUNTY HEALTH DEPARTMENT THAT THE LINE MEETS MINIMUM AWWA AND GENESEE COUNTY HEALTH DEPARTMENT STANDARDS FOR DRINKING WATER. WATER SAMPLES MUST BE TAKEN ONLY FROM THE DESIGNATED TEST POINTS AND IN THE PRESENCE OF THE TOWN OF ALABAMA'S REPRESENTATIVE. CONTRACTOR TO NOTIFY THE TOWN OF ALABAMA A MINIMUM OF 48 HOURS PRIOR TO SAMPLING.
- CONTRACTOR TO SUPPLY CEMENT LINED, CLASS 150, STANDARD WEIGHT DUCTILE IRON PIPE FITTINGS AND BENDS WHERE NECESSARY TO INSTALL WATERLINE. ALL FITTINGS SHALL BE PROPERLY THRUST BLOCKED, & RESTRAINED ACCORDANCE TO DETAILS.
- HORIZONTAL SEPARATION WATERMAIN SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER MAIN. THE DISTANCE SHALL BE FROM EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A TEN FOOT SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE WATERMAIN CLOSER TO A SEWER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH, OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" ABOVE THE TOP OF THE SEWER.
- CROSSINGS WATERMANS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE, OR BELOW THE SEWER. THE CROSSINGS SHALL BE ARRANGED SO THAT THE WATERMAIN JOINTS WILL BE QUOTE RESTRAINED AND AS FAR AS POSSIBLE FROM SEWER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.



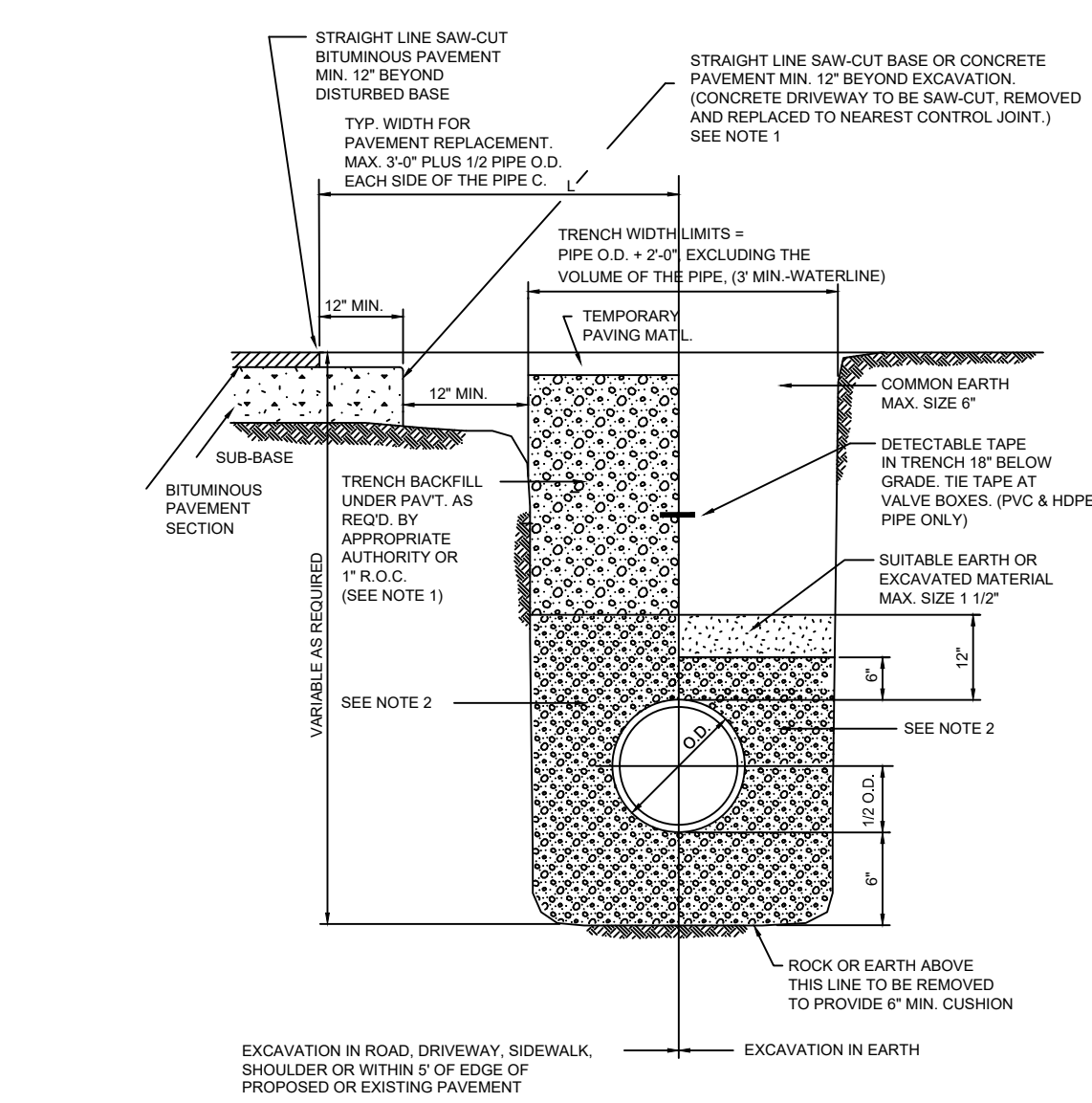
TYPICAL HYDRANT SETTING DETAIL
N.T.S.



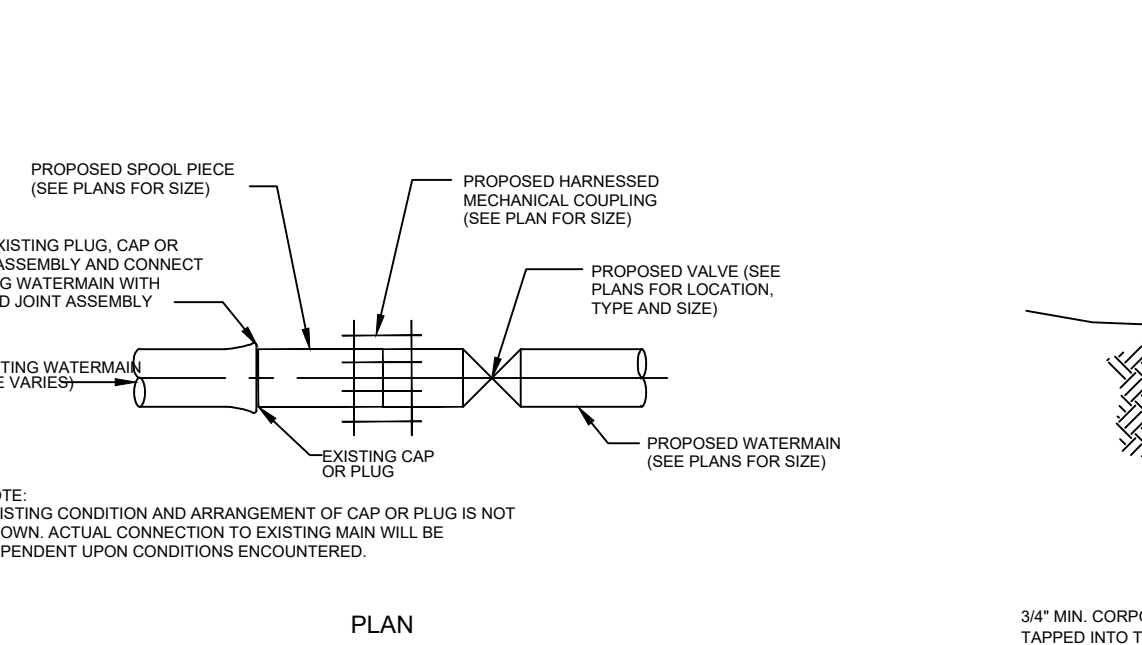
TYPICAL VALVE SETTING DETAIL
N.T.S.



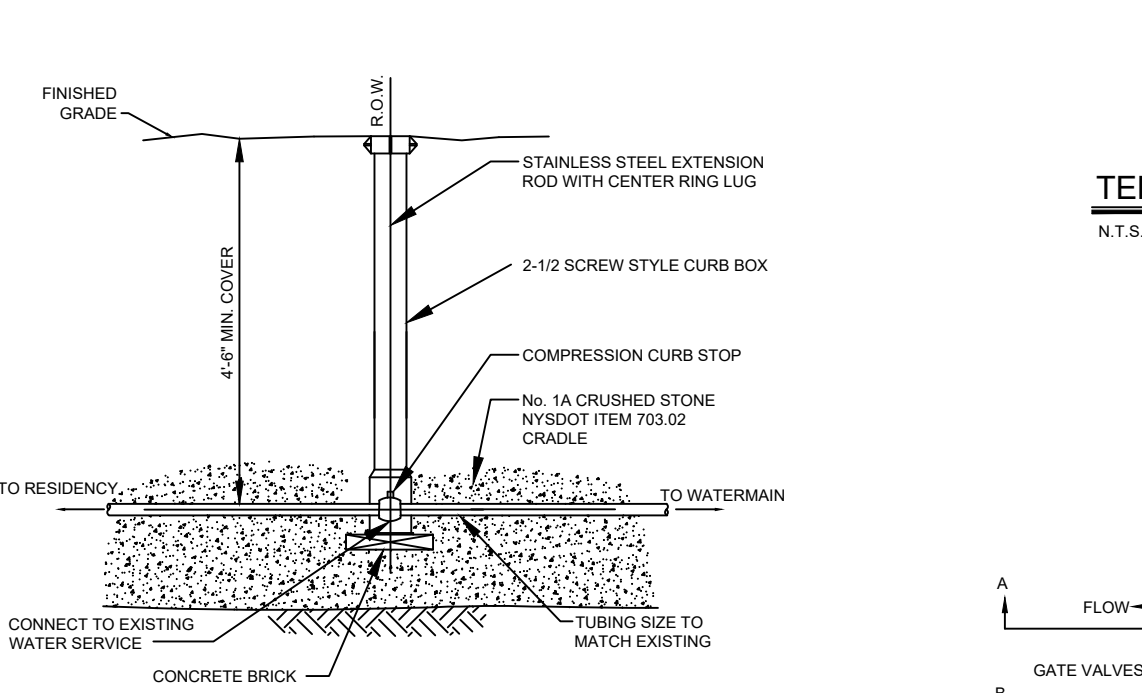
STANDARD CONNECTION TO EXISTING WATERMAIN
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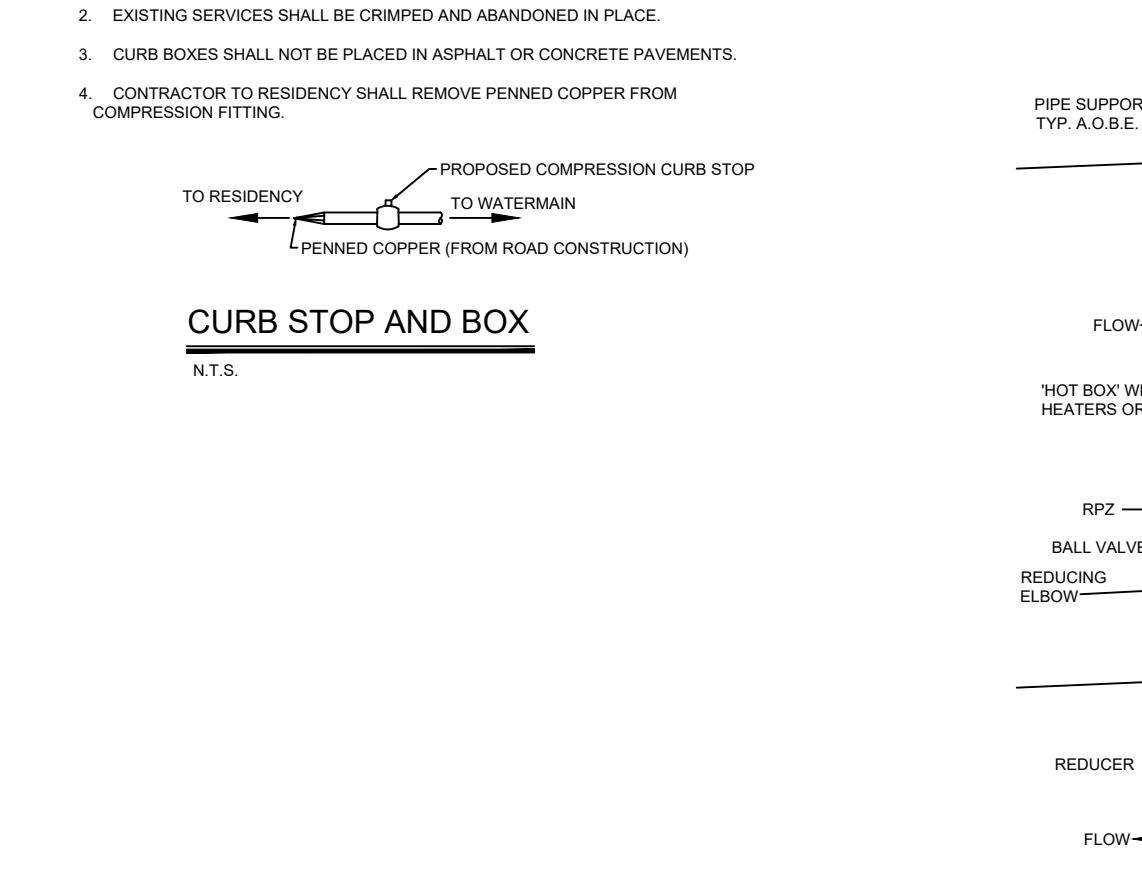
TYPICAL WATERLINE TRENCH DETAIL
N.T.S.



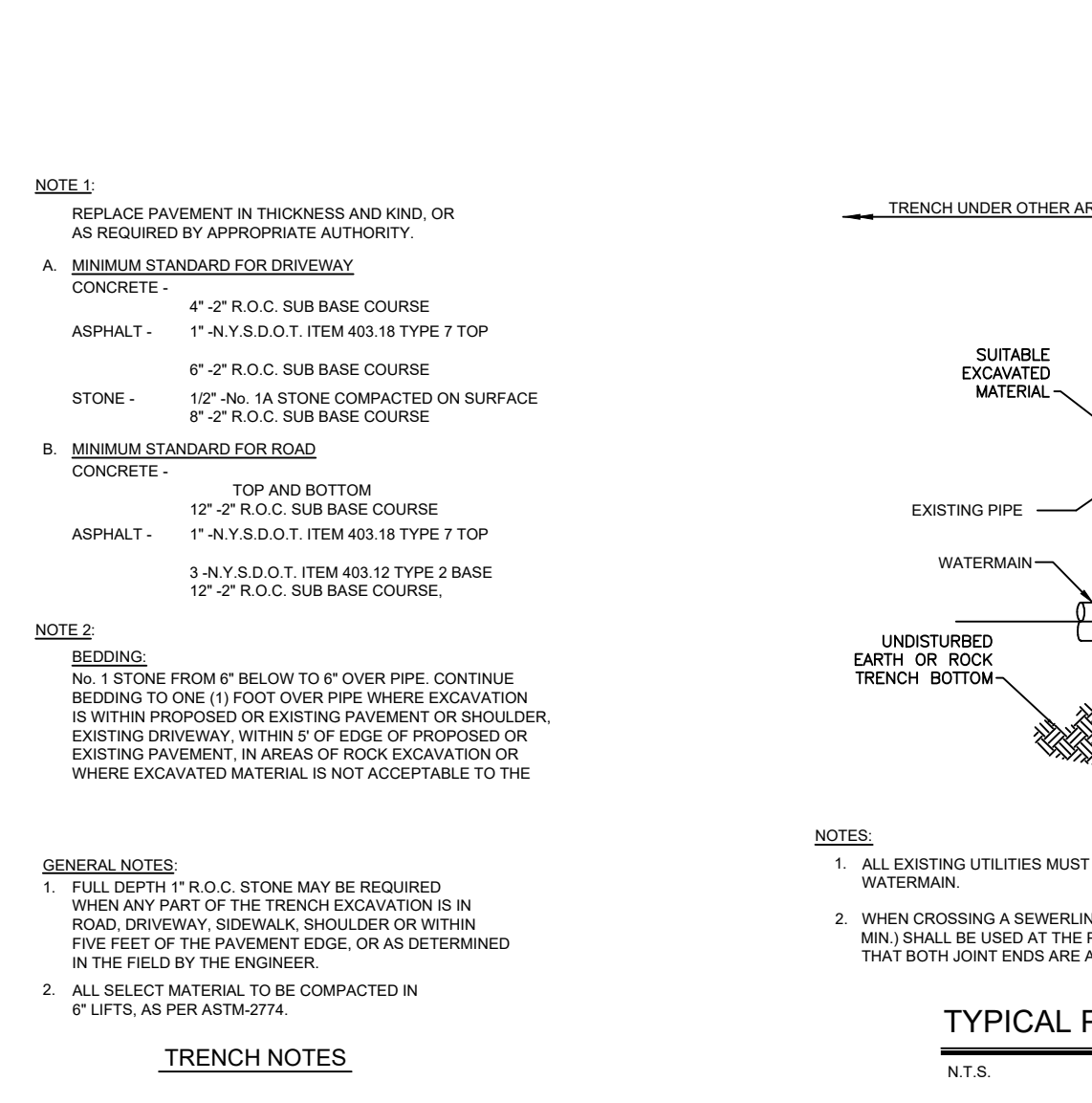
TYPICAL INTERCONNECTION TYPE "B"
N.T.S.



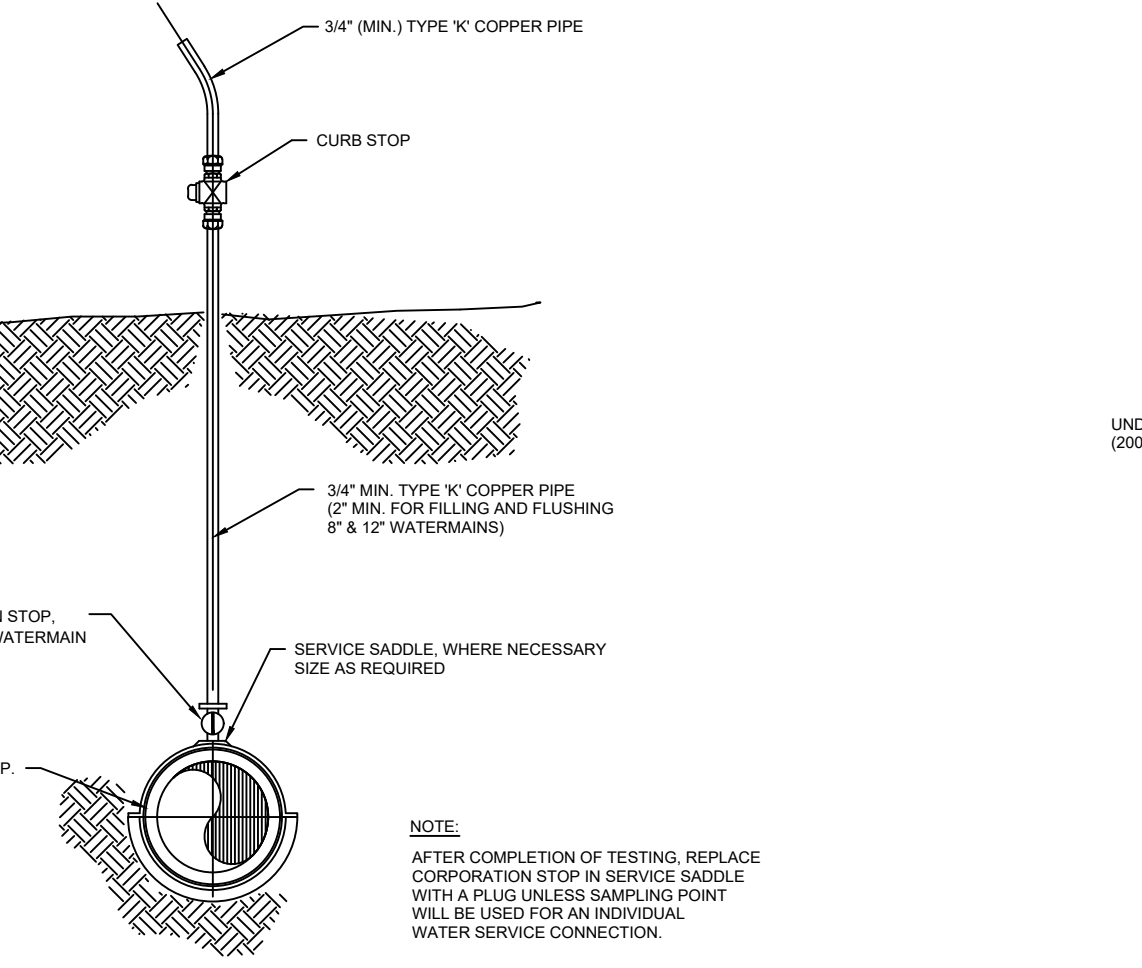
TEMPORARY SAMPLING POINT DETAIL
N.T.S.



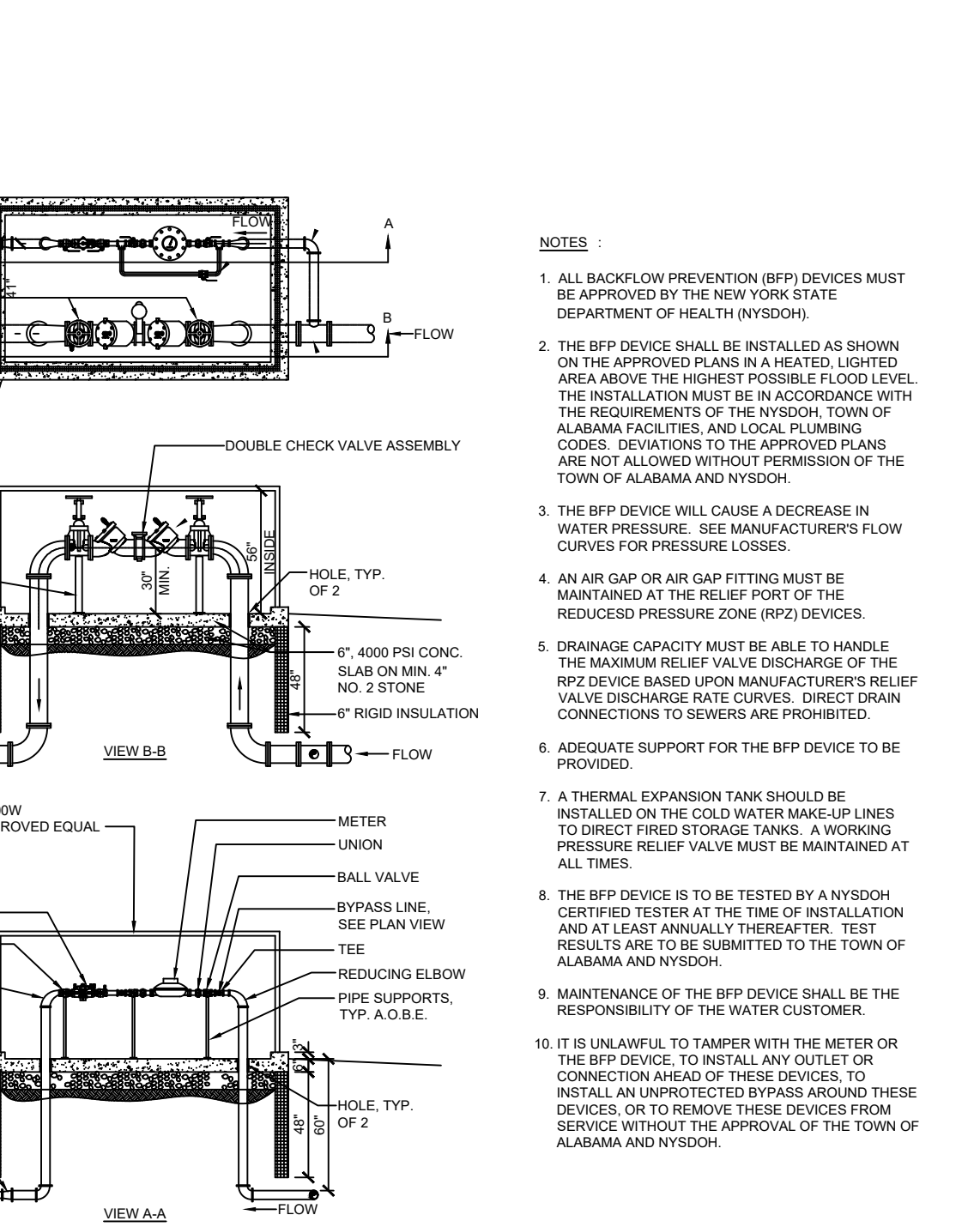
CURB STOP AND BOX
N.T.S.



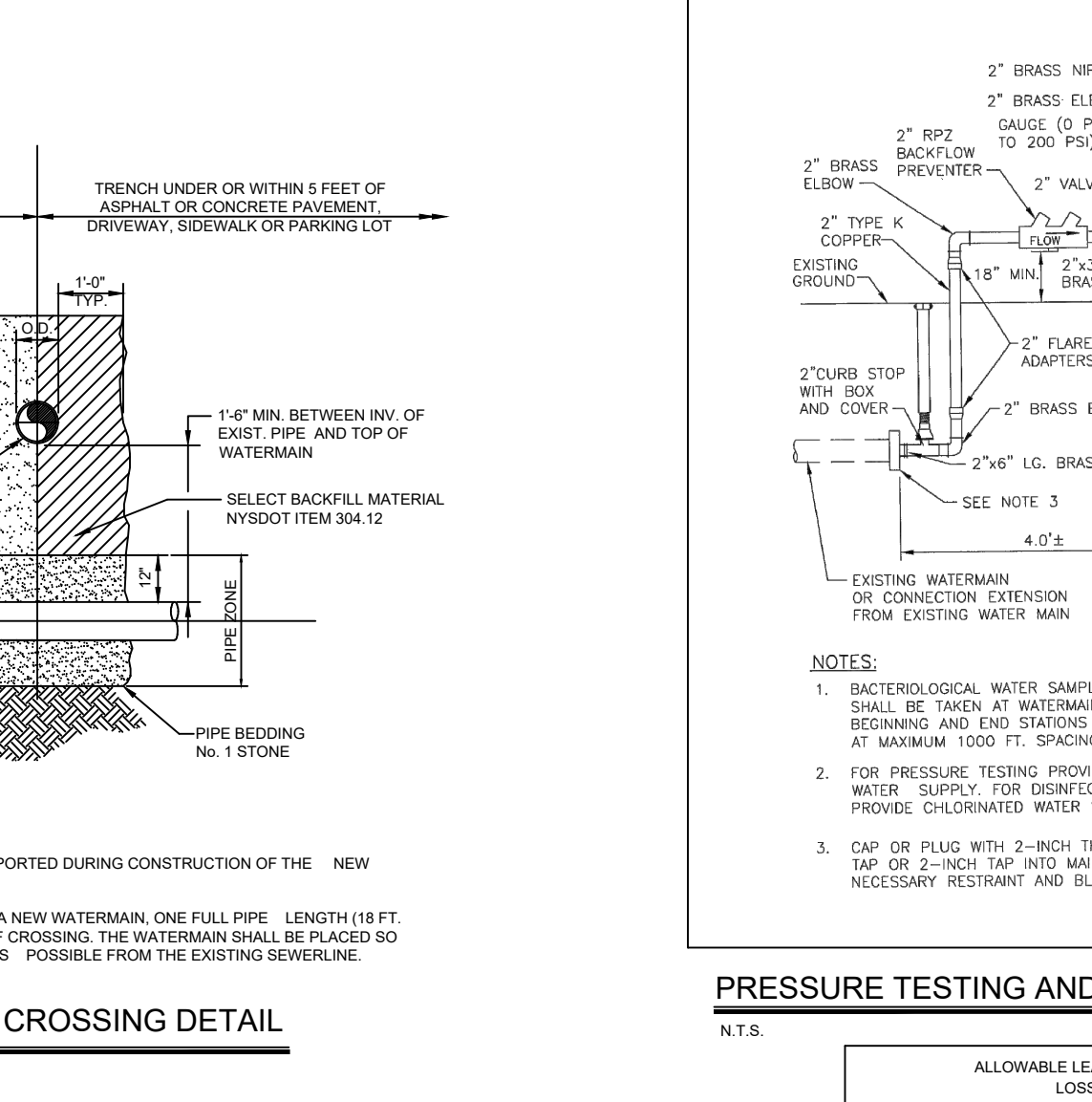
TYPICAL PIPE CROSSING DETAIL
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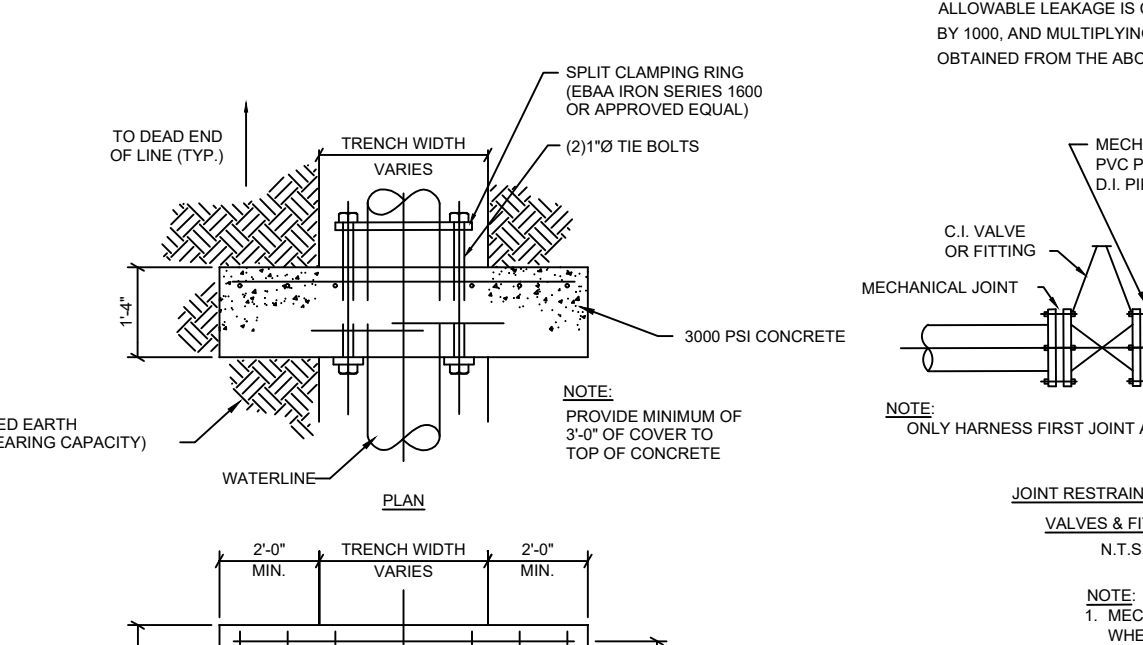
CONCRETE ANCHOR COLLAR DETAIL
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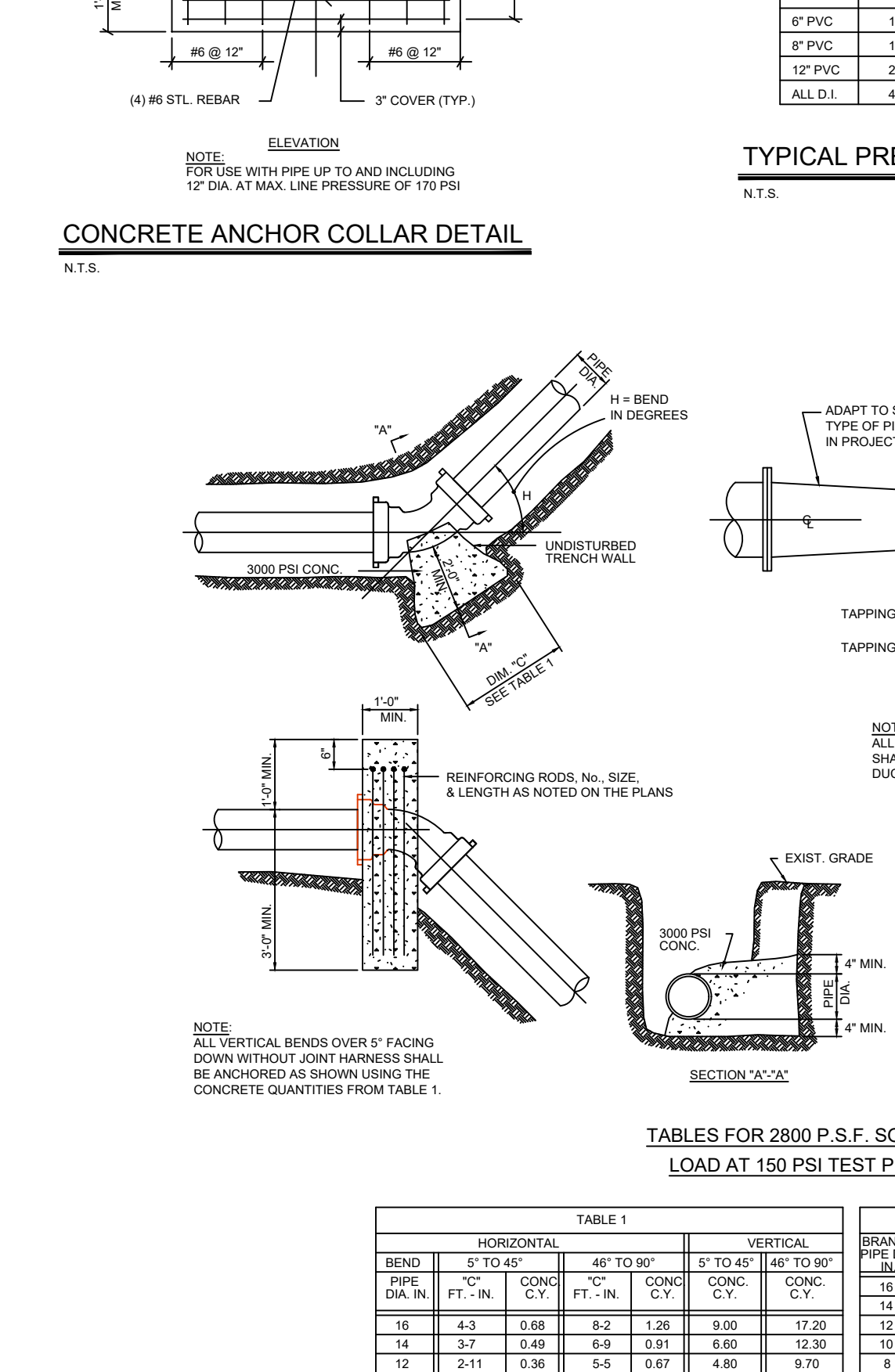
TYPICAL HOT BOX W/ DOUBLE CHECK VALVE AND RPZ ASSEMBLIES
N.T.S.



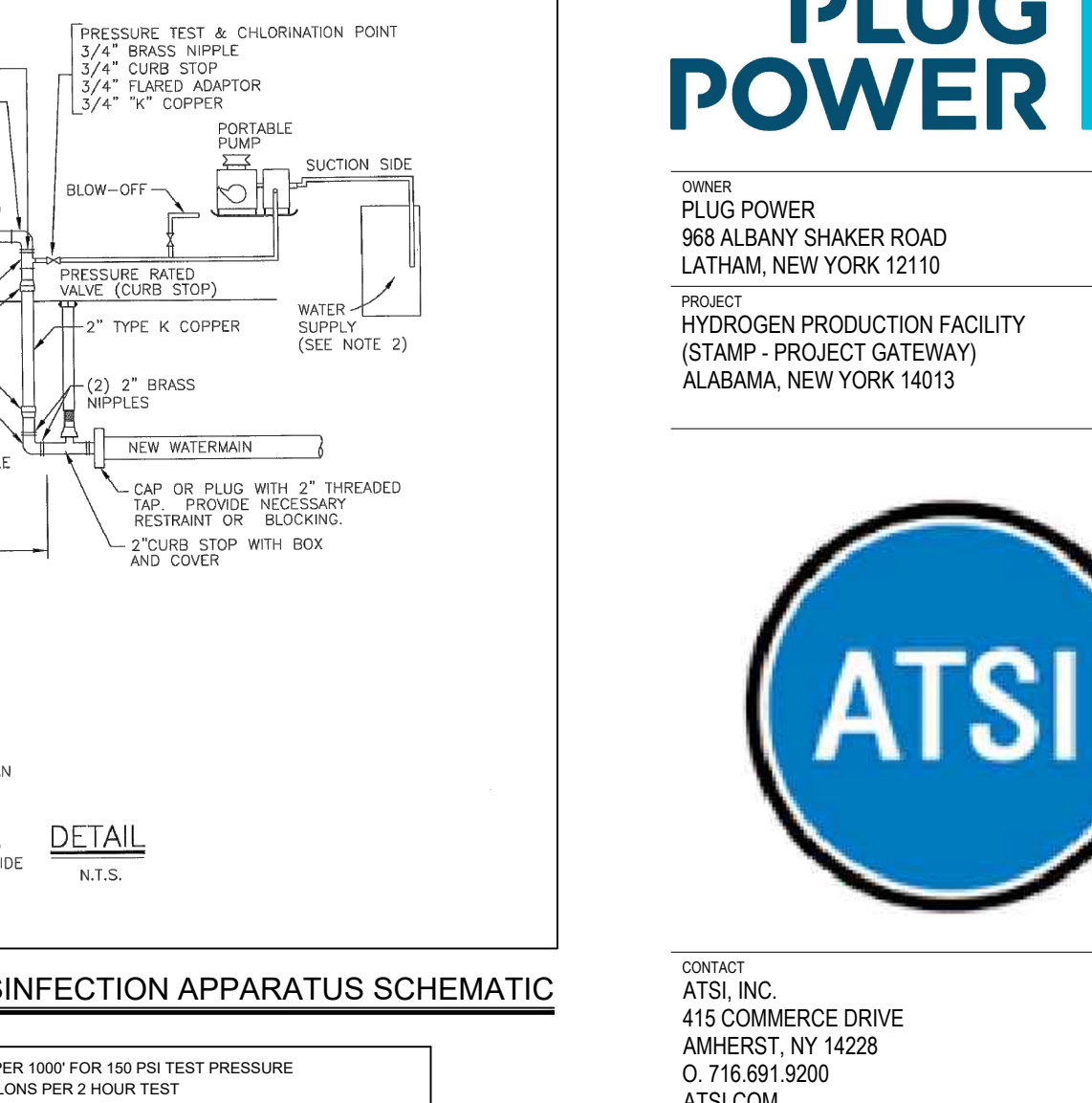
PRESSURE TESTING AND DISINFECTION APPARATUS SCHEMATIC
N.T.S.



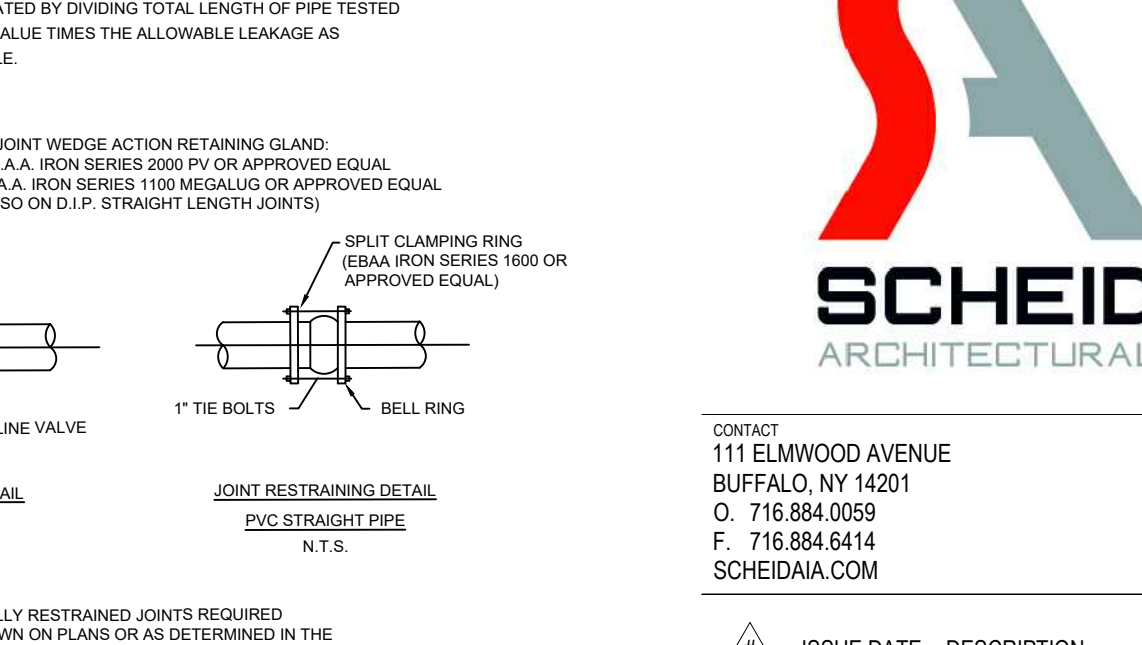
TYPICAL PRESSURE PIPE HARNESING DETAIL
N.T.S.



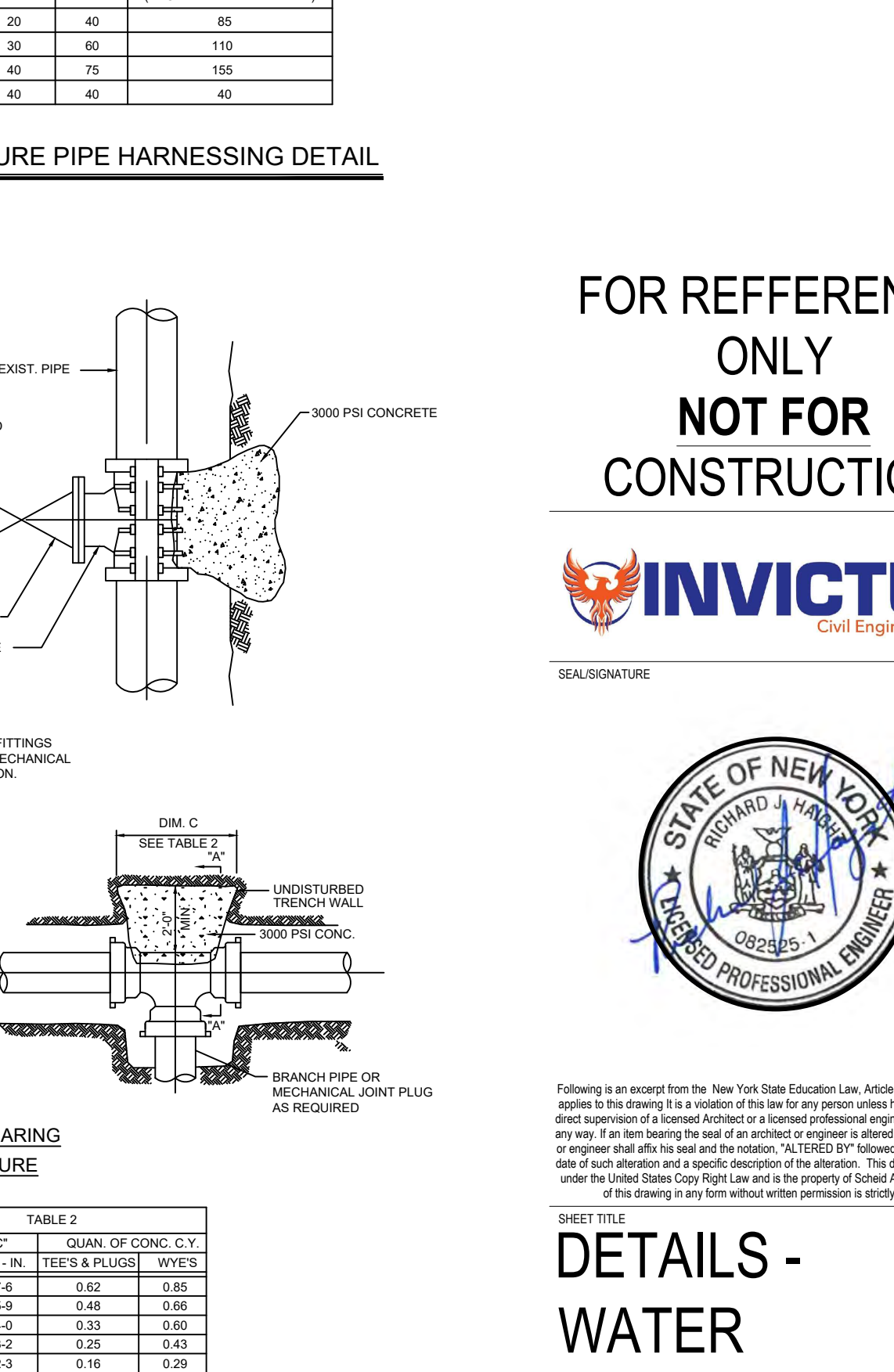
TABLES FOR 2800 P.S.F. SOIL BEARING LOAD AT 150 PSI TEST PRESSURE



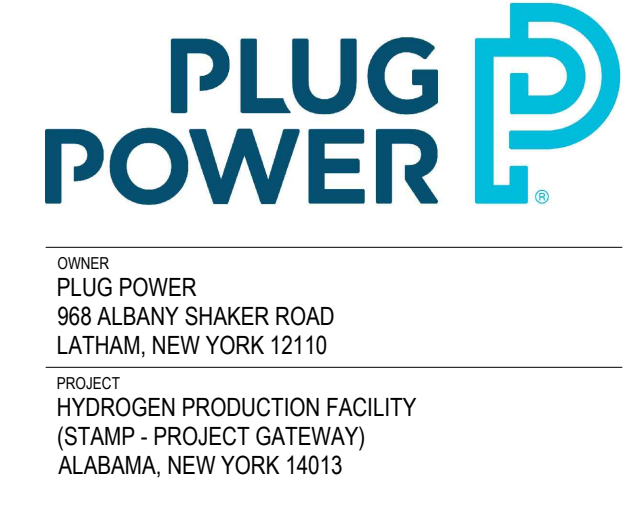
TYPICAL PRESSURE PIPE HARNESING DETAIL
N.T.S.



TYPICAL PRESSURE PIPE HARNESING DETAIL
N.T.S.



TABLES FOR 2800 P.S.F. SOIL BEARING LOAD AT 150 PSI TEST PRESSURE



CONTACT: ATSI, INC. 415 COMMERCE DRIVE ALHIRST, NY 14228 O: 716.684.9200 F: 716.684.9200 ATSI.COM



ISSUE DATE: 05/26/2021 DESCRIPTION: SITE PLAN SUBMISSION

PIPE SIZE (IN)	LENGTH OF RESTRAINED PIPE REQUIRED IN FEET (EACH SIDE OF FITTING)			
	11 1/4" BEND	22 1/2" BEND	45" BEND	90" BEND
6" PVC	10	20	40	85
8" PVC	15	30	60	110
12" PVC	20	40	75	155
ALL D.I.	40	40	40	40

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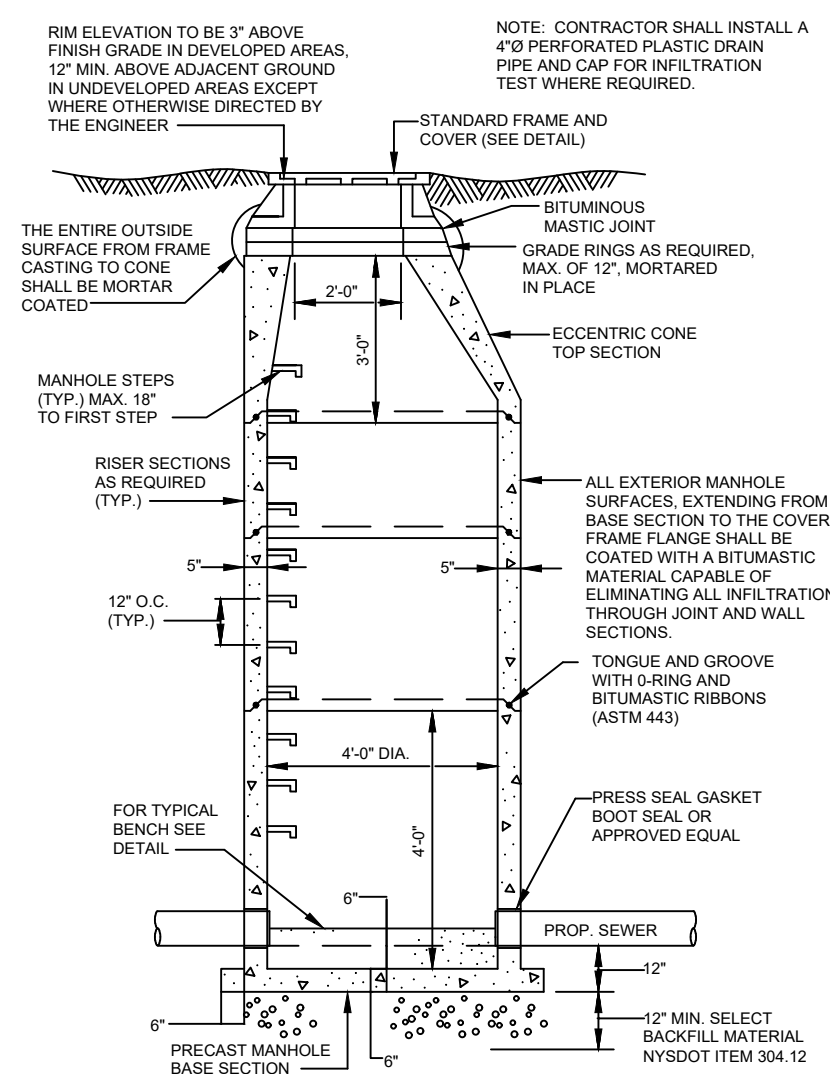


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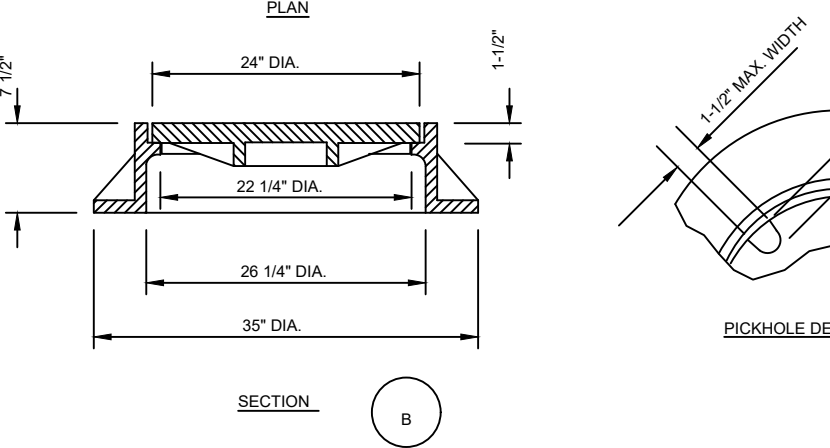
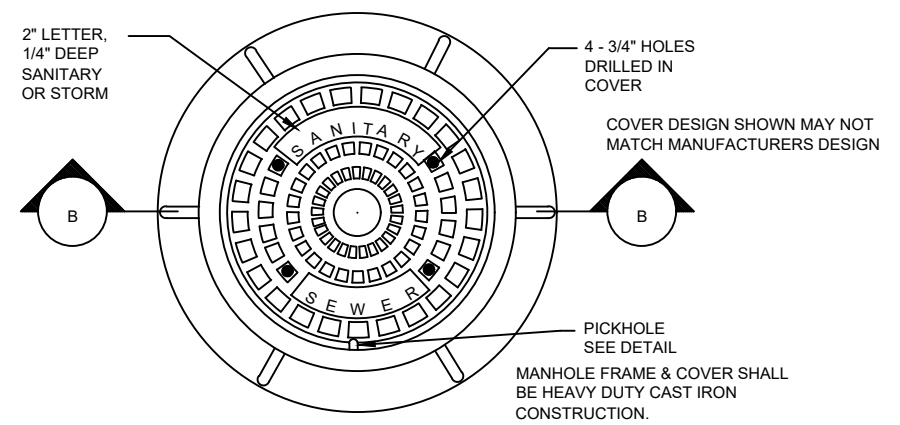
DETAILS - WATER

PROJECT NUMBER: 5/26/2021 7:09:21 AM

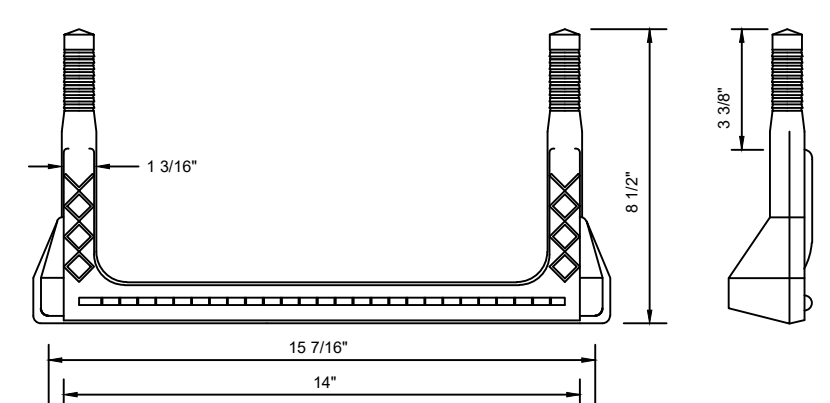
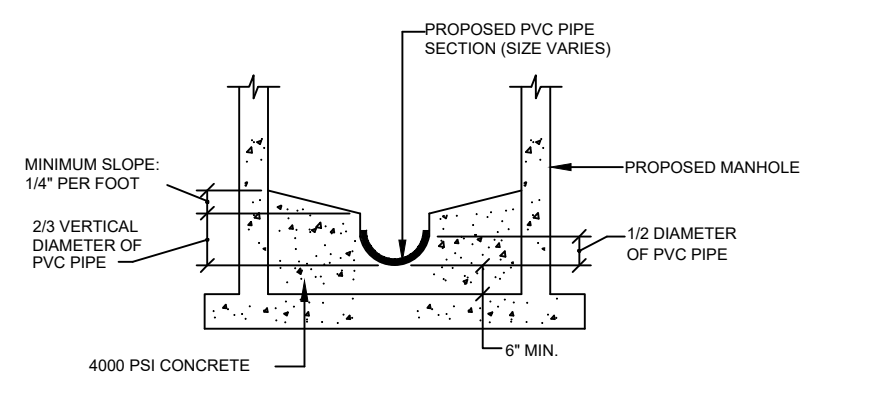
SHEET: C6



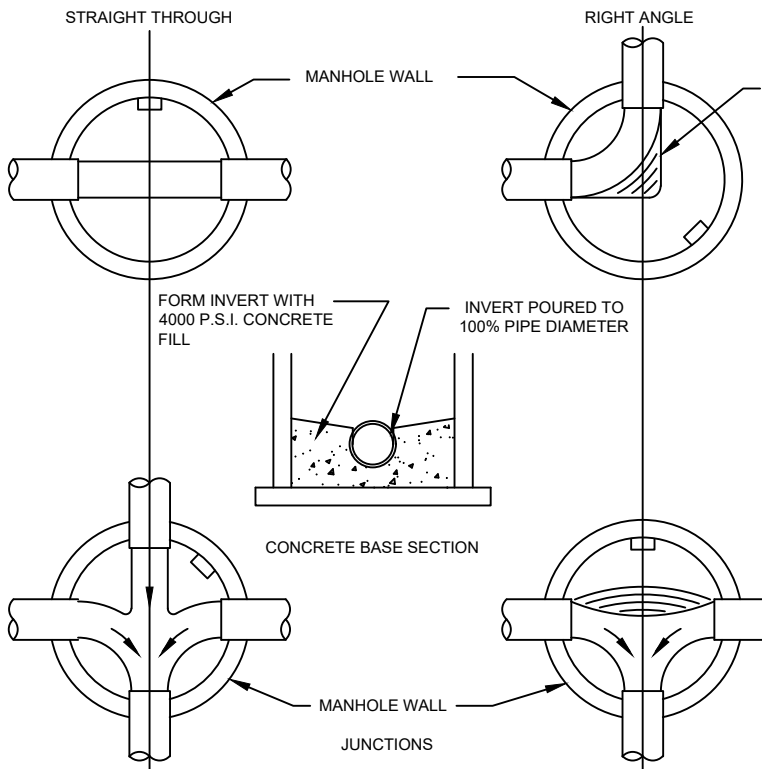
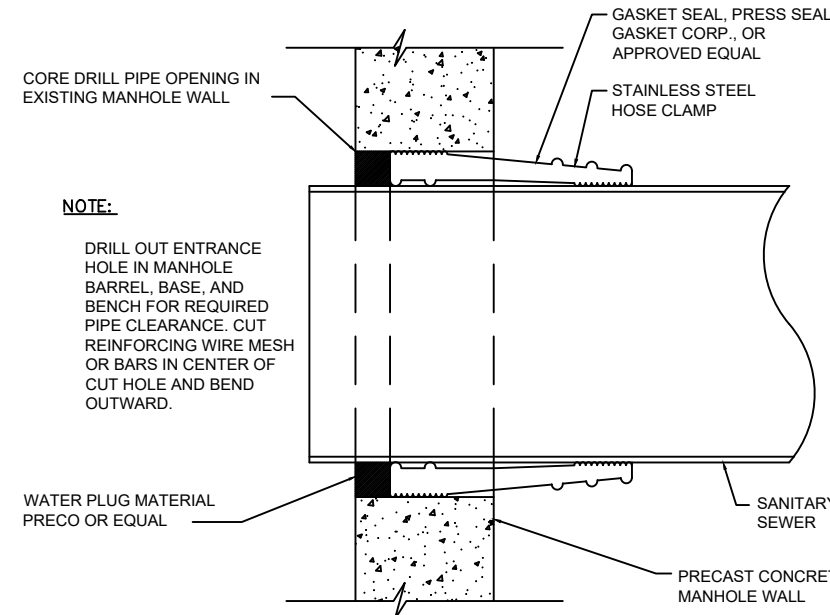
TYPICAL PRECAST SANITARY MANHOLE DETAIL
N.T.S.



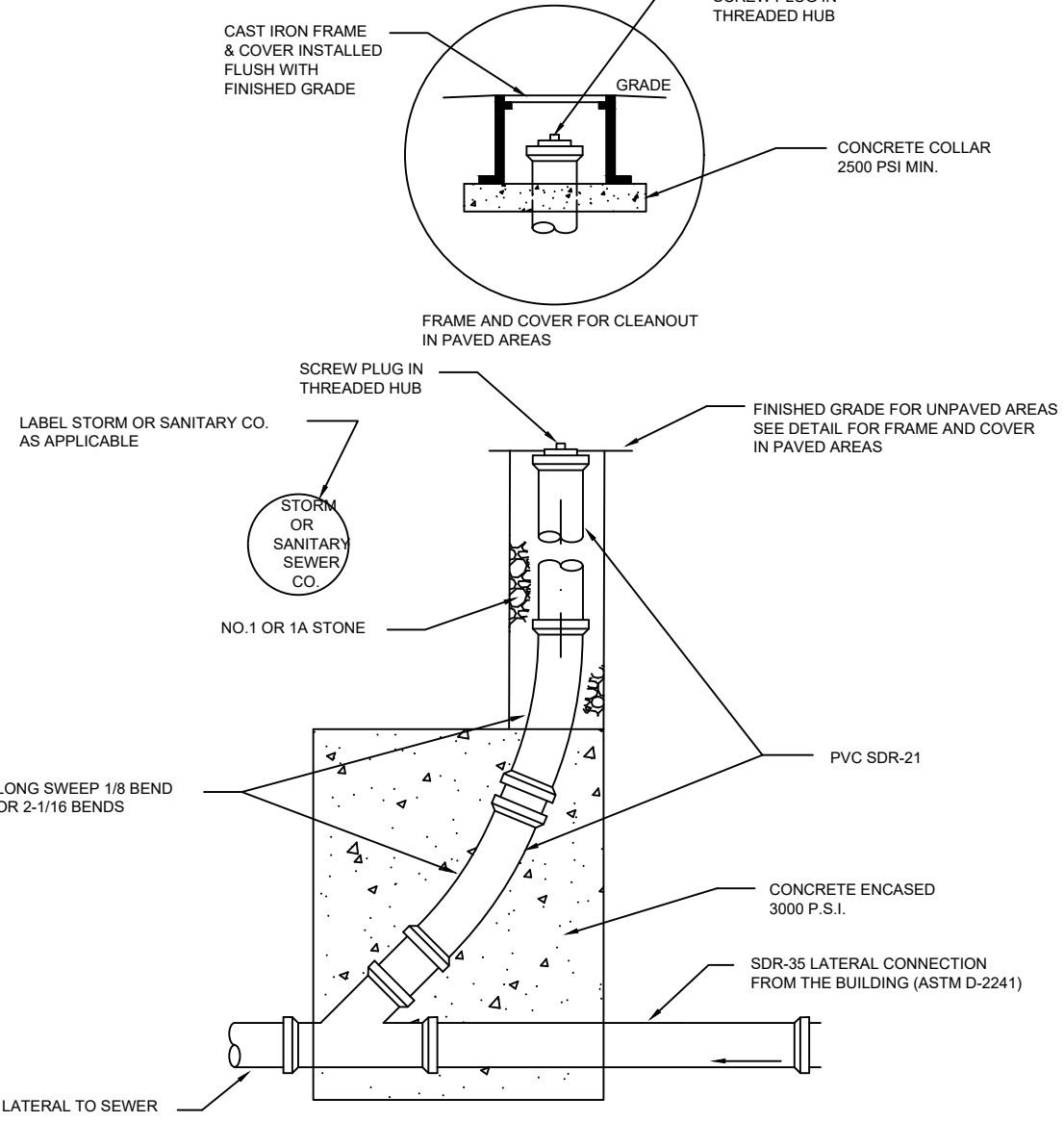
TYPE "A" FRAME AND COVER



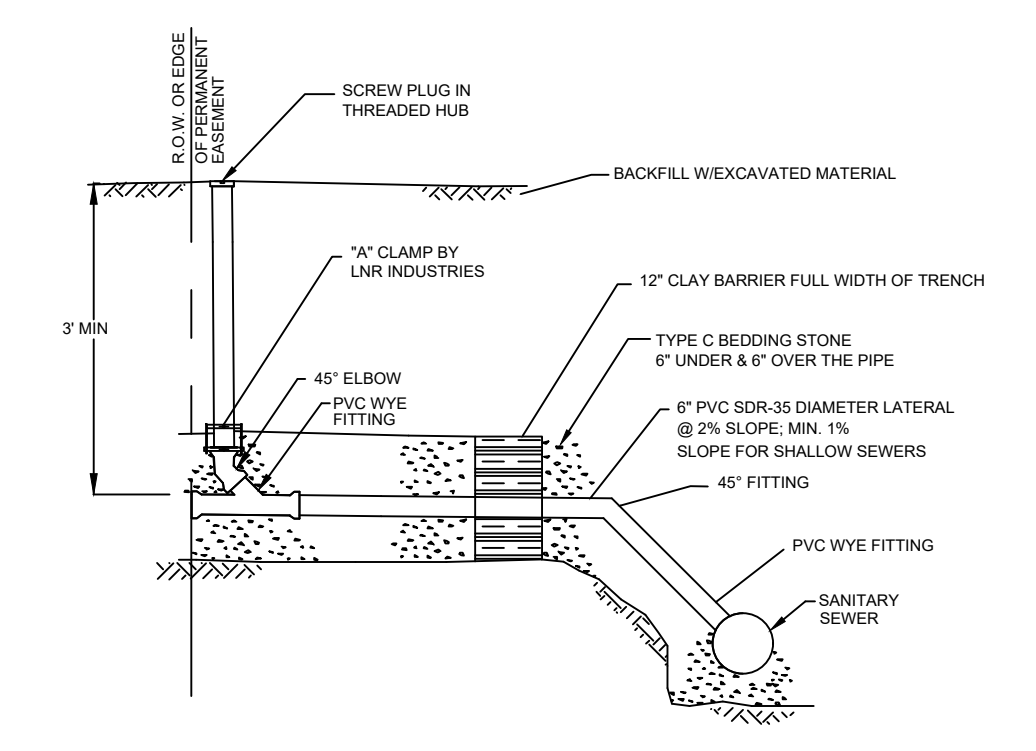
COPOLYMER POLYPROPYLENE PLASTIC MANHOLE STEP
N.T.S.



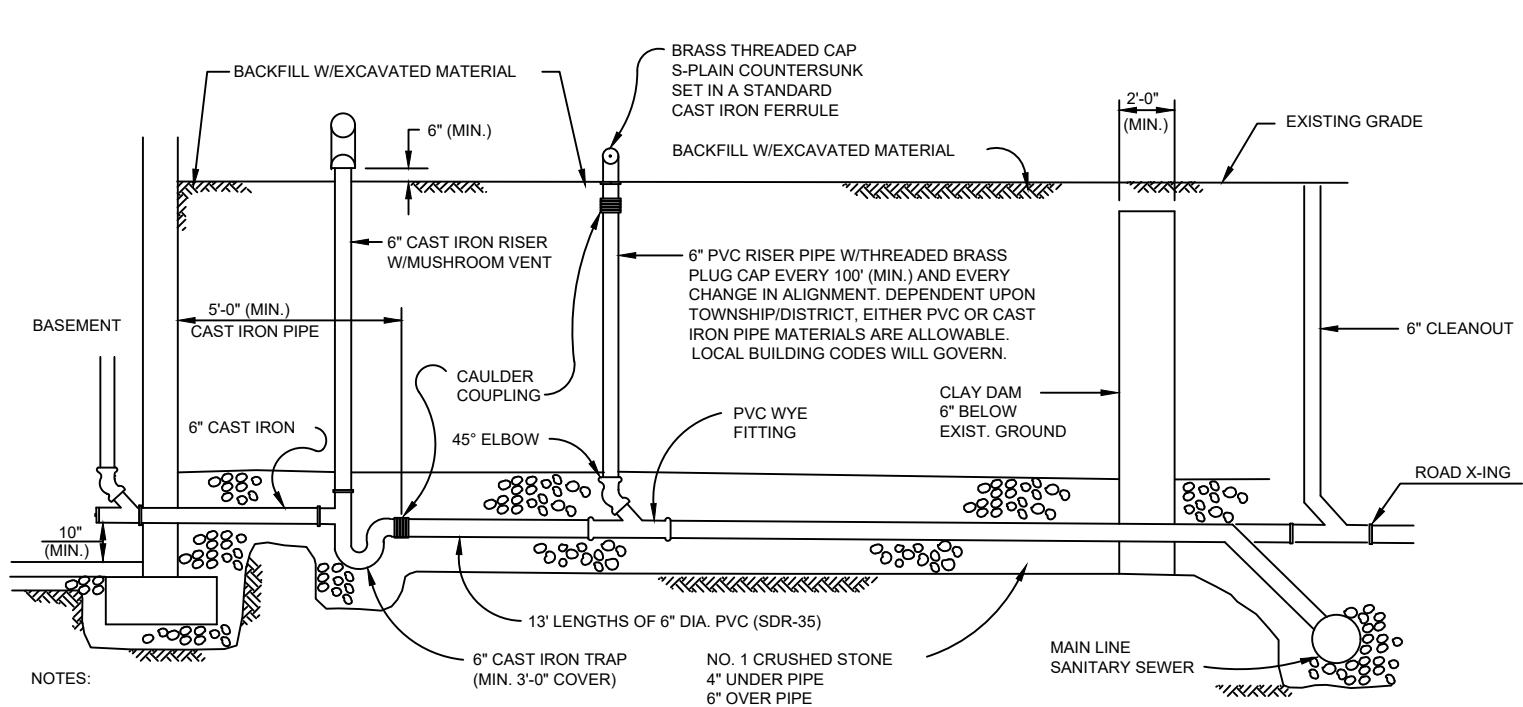
SANITARY SEWER FLOW CHANNEL DETAILS
N.T.S.



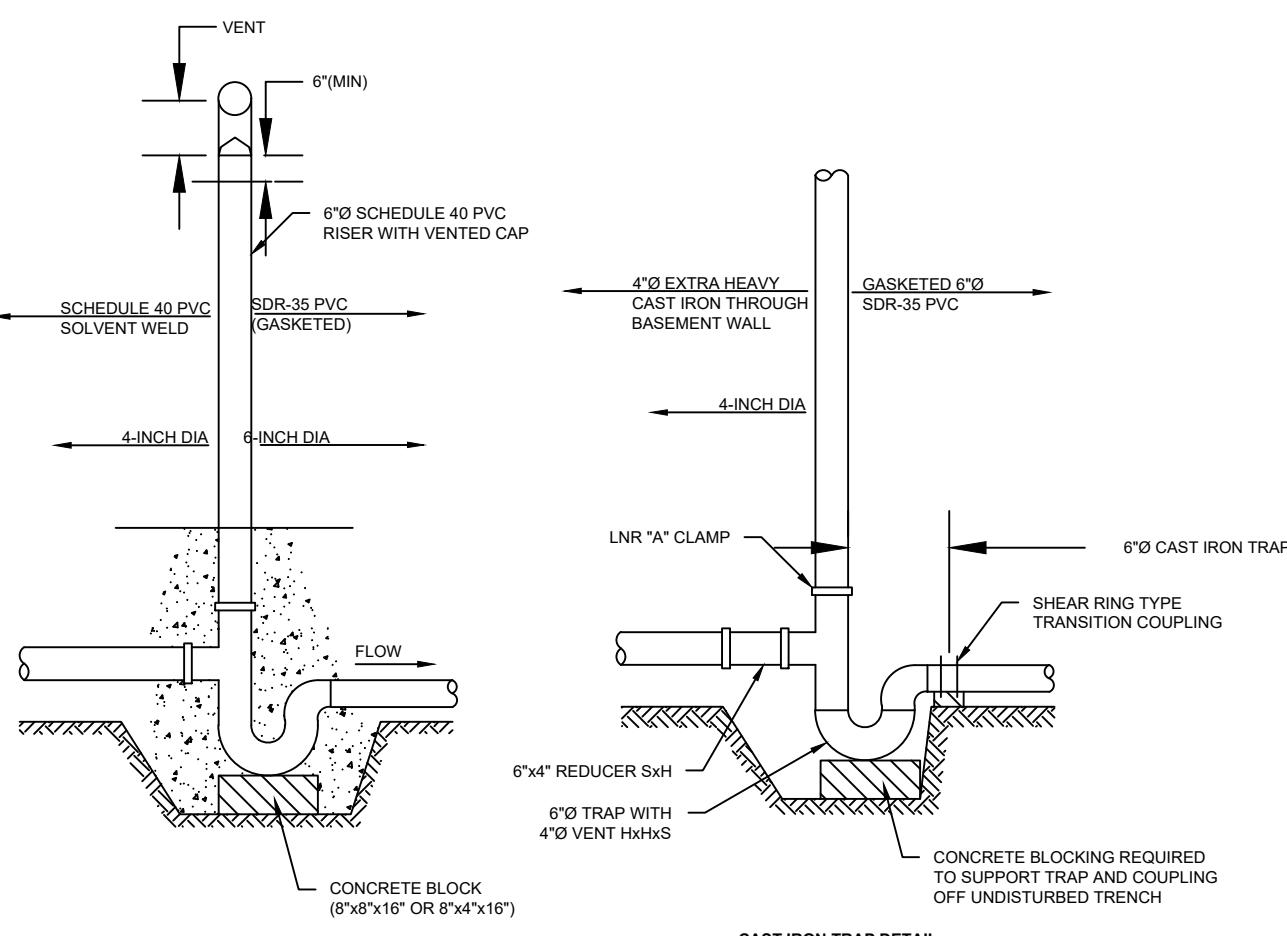
SEWER CLEANOUT DETAIL
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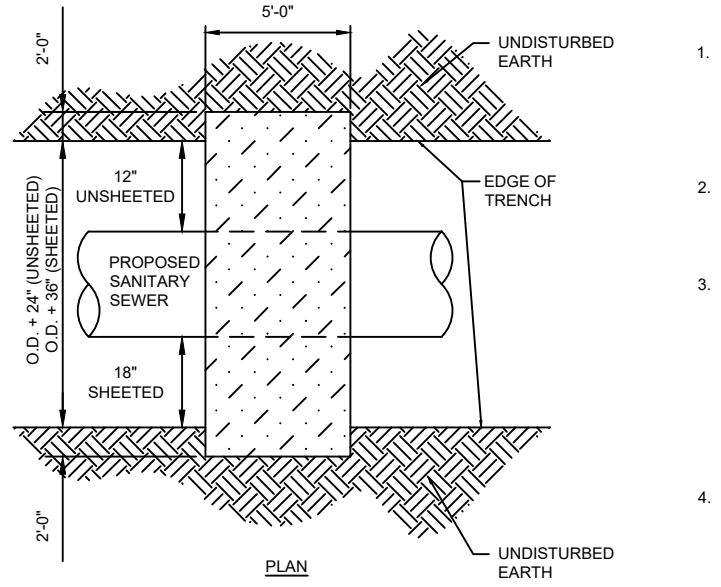
TYPICAL SEWER SERVICE CONNECTION DETAIL
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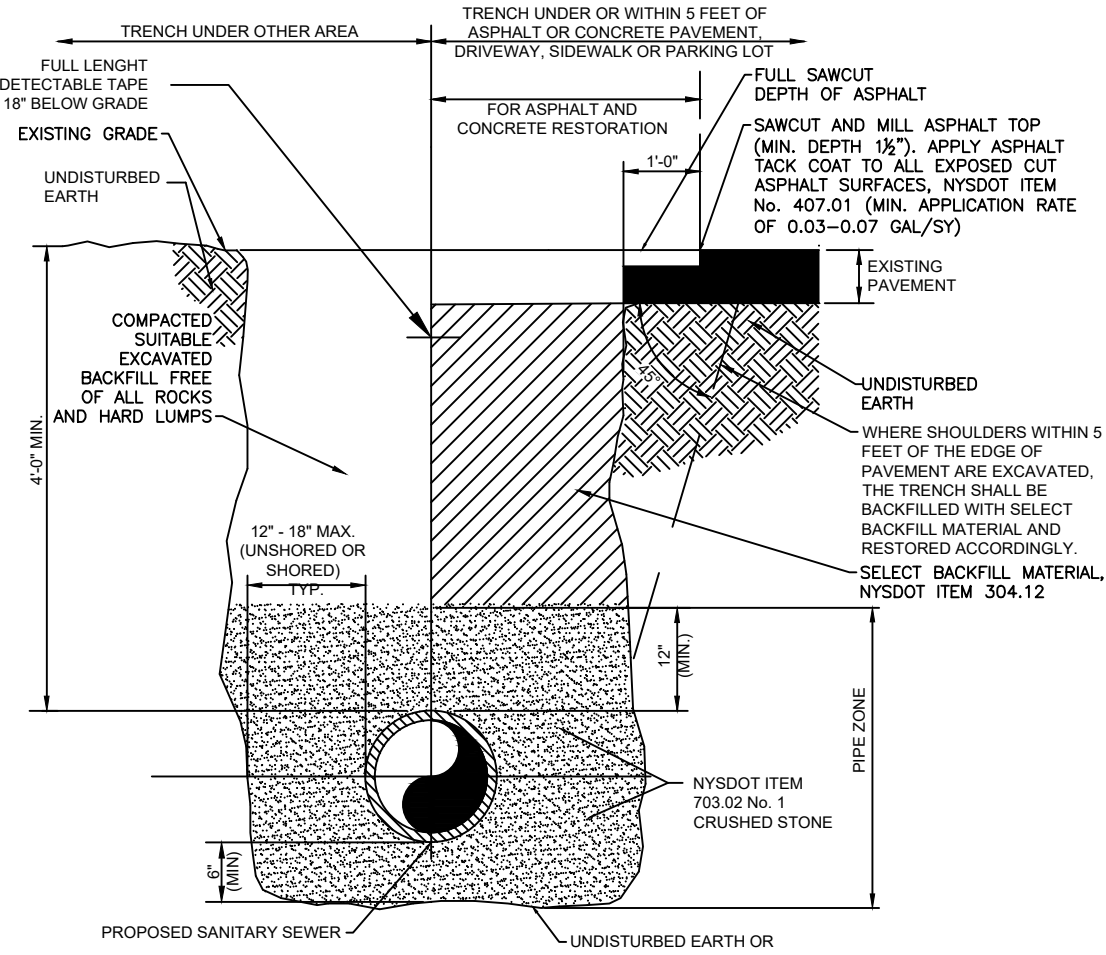
TYPICAL COMMERCIAL SERVICE DETAIL
N.T.S.



PVC/CAST IRON TRAP DETAIL
N.T.S.



COHESIVE FILL TRENCH BARRIER DETAIL
N.T.S.



SANITARY TRENCH DETAIL
N.T.S.



OWNER:
PLUG POWER
968 ALBANY SHAKER ROAD
LATHAM, NEW YORK 12110

PROJECT:
HYDROGEN PRODUCTION FACILITY
(STAMP - PROJECT GATEWAY)
ALABAMA, NEW YORK 14013



CONTACT:
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ALBANY, NY 14228
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ATSI.COM



CONTACT:
111 ELMWOOD AVENUE
BUFFALO, NY 14201
O: 716.884.0059
F: 716.884.6414
SCHEIDAJA.COM

ISSUE DATE: 05/26/2021
DESCRIPTION: SITE PLAN SUBMISSION

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SHEET TITLE:
DETAILS - SANITARY

PROJECT NUMBER

PLOT DATE: 5/25/2021 7:09:41 AM

SHEET

C7



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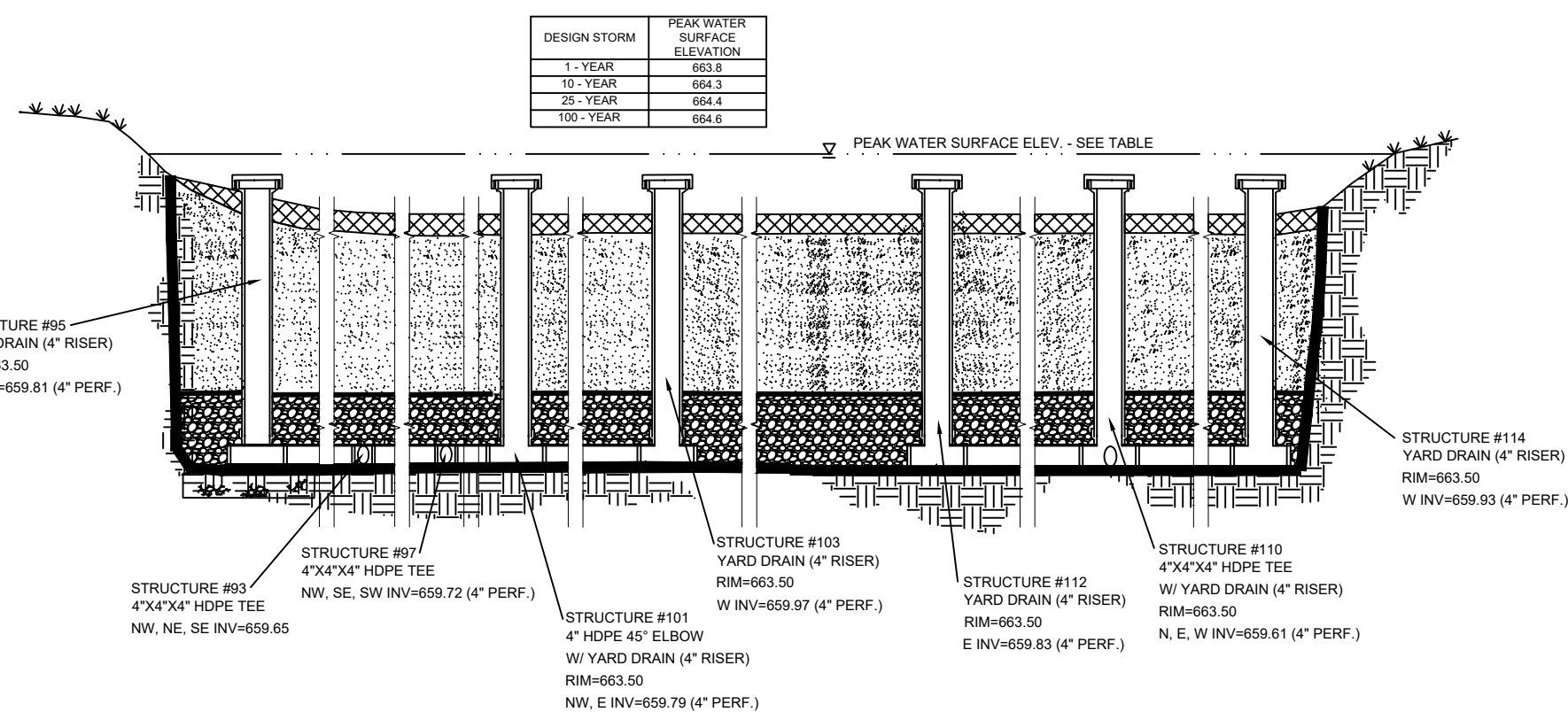
SHEET TITLE:
DETAILS - STORM DRAINAGE

PROJECT NUMBER

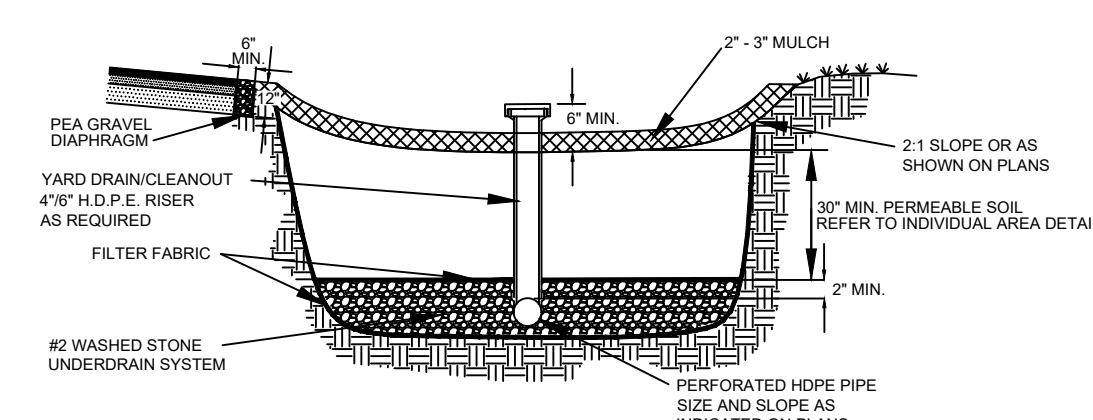
PLOT DATE:
5/26/2021 7:10:02 AM

SHEET

C8

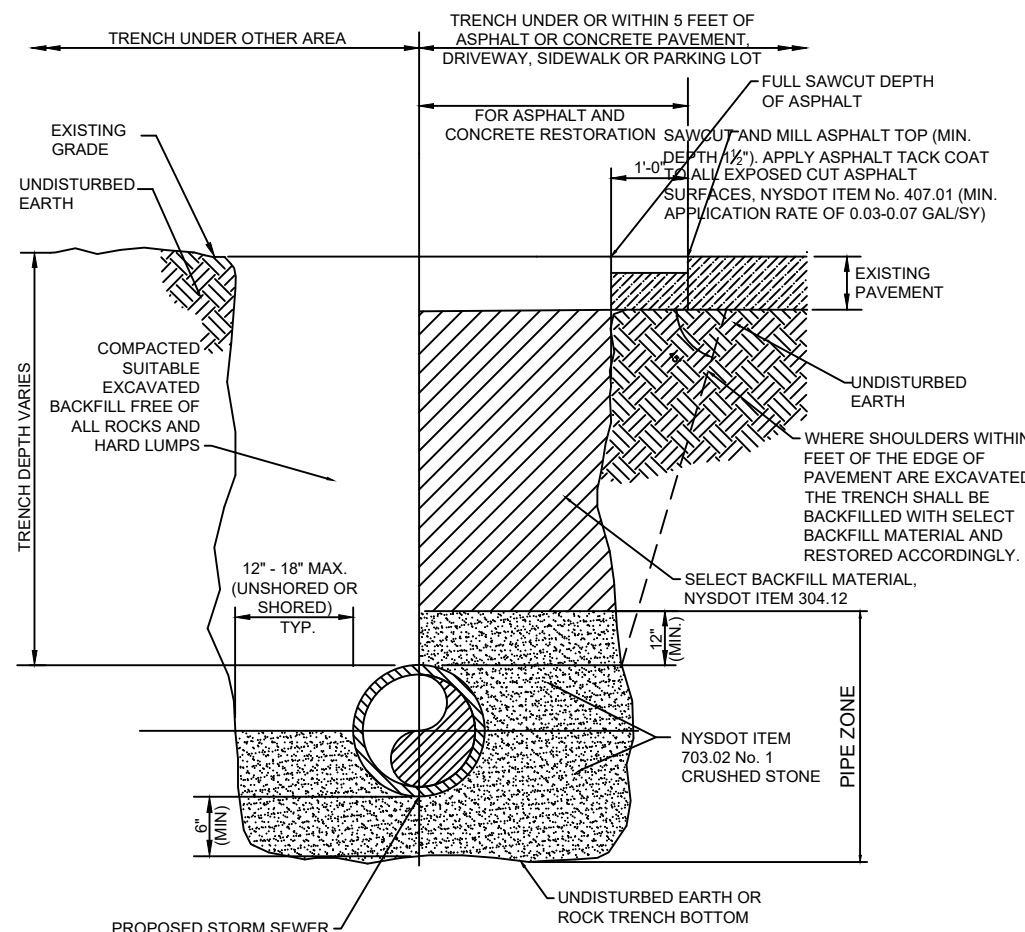


BIO-RETENTION AREA CROSS SECTION "A-A"
N.T.S.

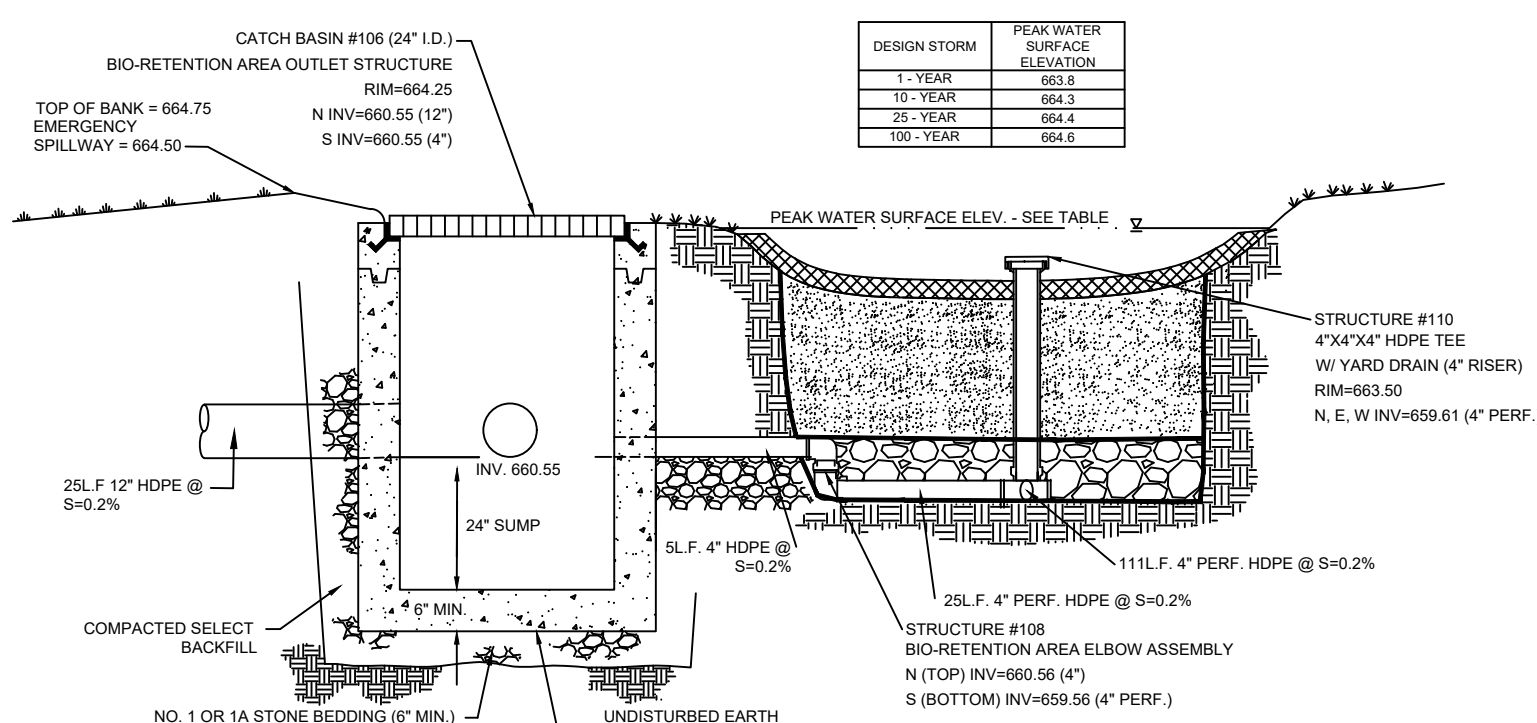


NOTES:
1. THE PERMEABLE SOIL SHALL BE CONSISTENT WITH THE NYSDOT STANDARD SPECIFICATIONS ITEM 208.0103.22. THE "PERMEABLE SOIL" SHALL BE A WELL-BLENDED MIXTURE OF THREE (3) PARTS SAND AND ONE (1) PART TOPSOIL. BY VOLUME SAND SHALL MEET THE REQUIREMENTS OF SECTION 703.07 "CONCRETE SAND" OF THE NYSDOT STANDARD SPECIFICATIONS. TOPSOIL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 713.01 "TOPSOIL". THE "PERMEABLE SOIL" SHALL HAVE A pH RANGE OF 5.2 TO 7.6 AND AN ORGANIC CONTENT OF 3-5%. SOIL AMENDMENTS TO INCREASE ORGANIC CONTENT SHALL BE PEAT MOSS IN ACCORDANCE WITH SECTION 713.15 "ORGANIC MATERIAL" OF THE NYSDOT STANDARD SPECIFICATIONS. A PERMEABILITY OF AT LEAST 1.0 FEET PER DAY (0.39 CM/HR) IS REQUIRED. THE SOIL SHALL BE FREE OF STONES, STUMPS, ROOTS, OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER AND VISIBLY FREE OF NOXIOUS WEEDS. THE SOIL SHOULD BE PLACED IN 12" LIFTS AND LOOSELY COMPACTED (TAMPED LIGHTLY WITH A DOZER OR BACKHOE BUCKET).
2. THE MULCH LAYER SHOULD BE STANDARD LANDSCAPE STYLE. SINGLE OR DOUBLE SHREDED HARDWOOD MULCH OR CHIPS. THE MULCH LAYER SHOULD BE WELL AGED (STOOD/LED OR STORED FOR AT LEAST 12 MONTHS), UNIFORM IN COLOR AND FREE OF OTHER MATERIALS, SUCH AS WEED SEEDS, SOIL, ROOTS, ETC. THE MULCH SHOULD BE APPLIED TO A MAXIMUM DEPTH OF THREE INCHES. GRASS CLIPPINGS SHOULD NOT BE USED AS A MULCH MATERIAL.

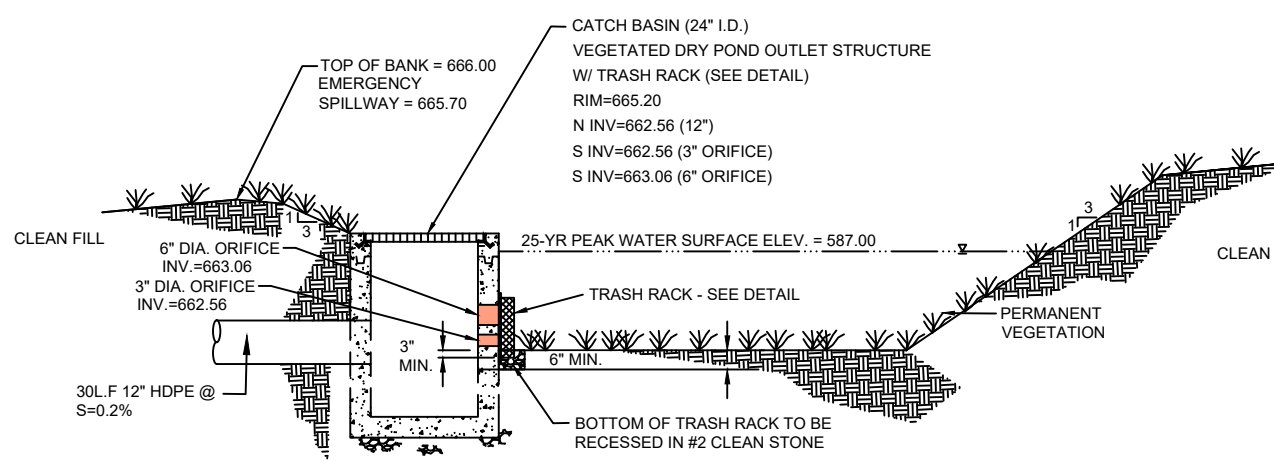
BIO-RETENTION AREA TYPICAL SECTION
N.T.S.



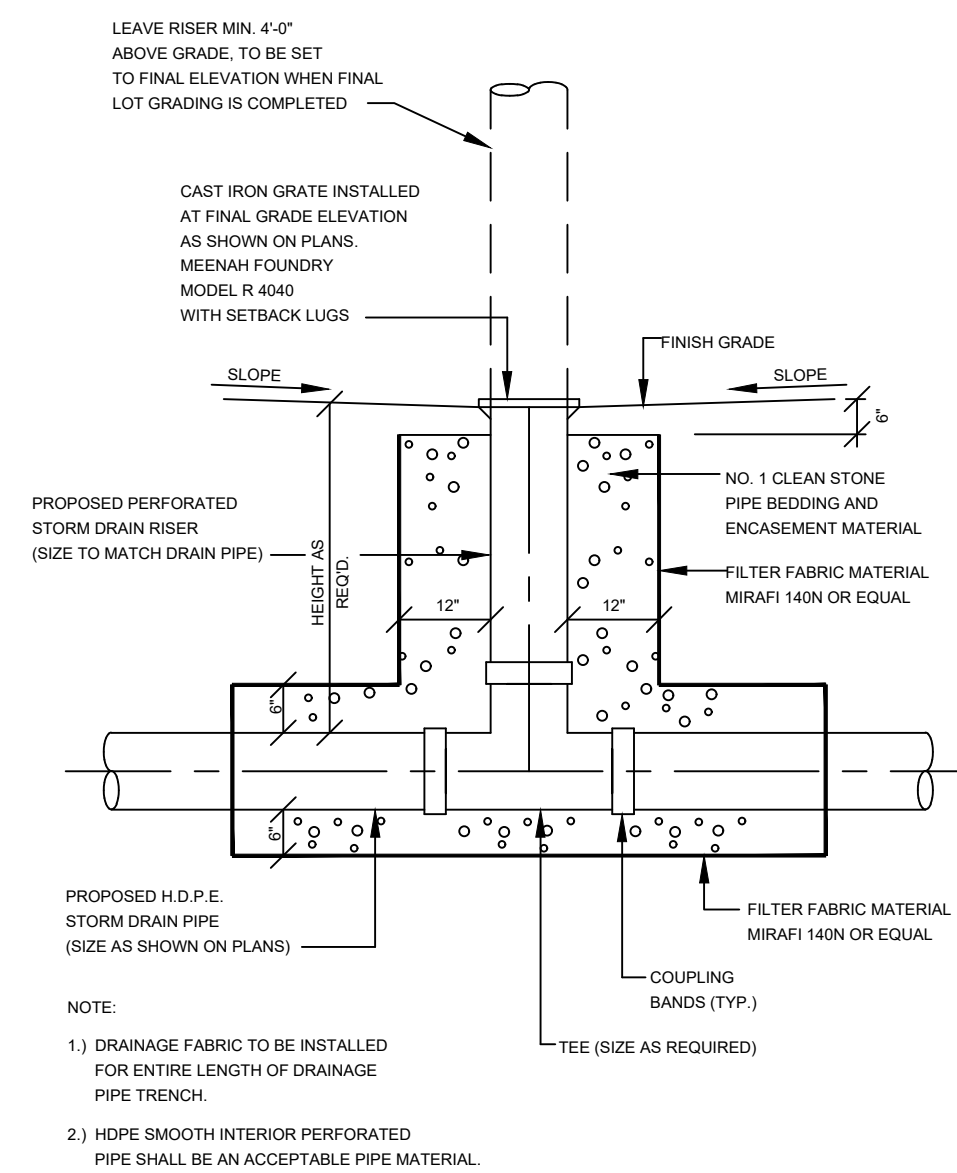
STORM SEWER TRENCH DETAIL
N.T.S.



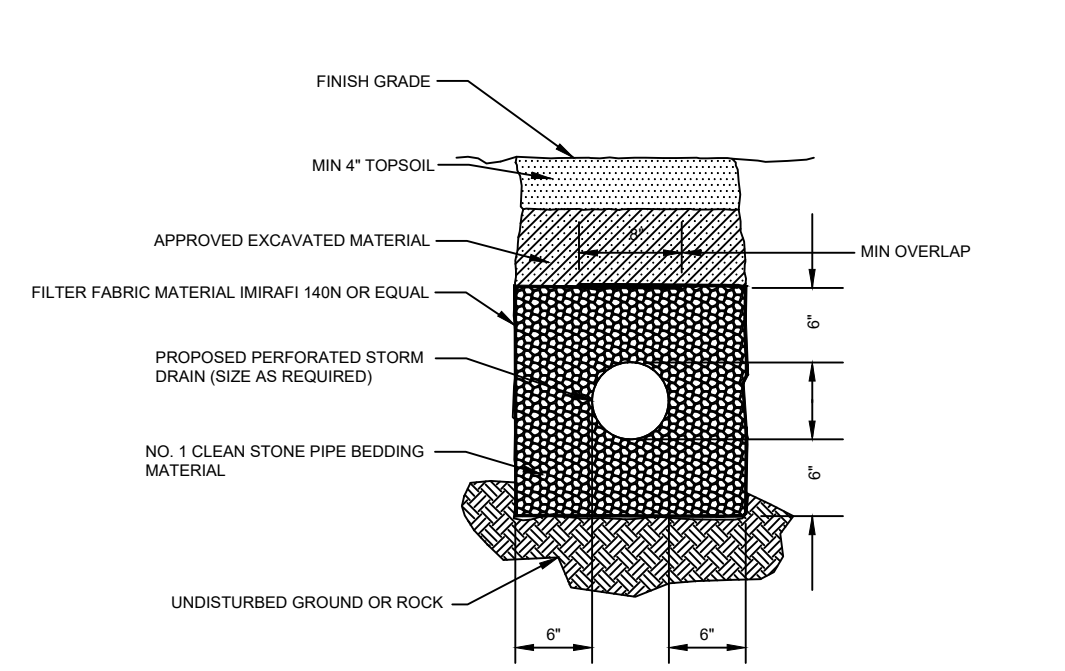
BIO-RETENTION AREA CROSS SECTION "B-B"
N.T.S.



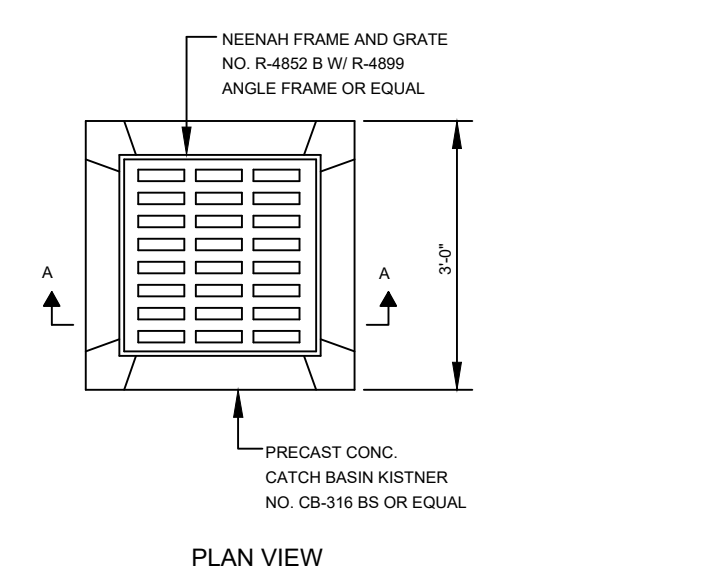
VEGETATED DRY DETENTION AREA TYPICAL CROSS SECTION "C-C"
N.T.S.



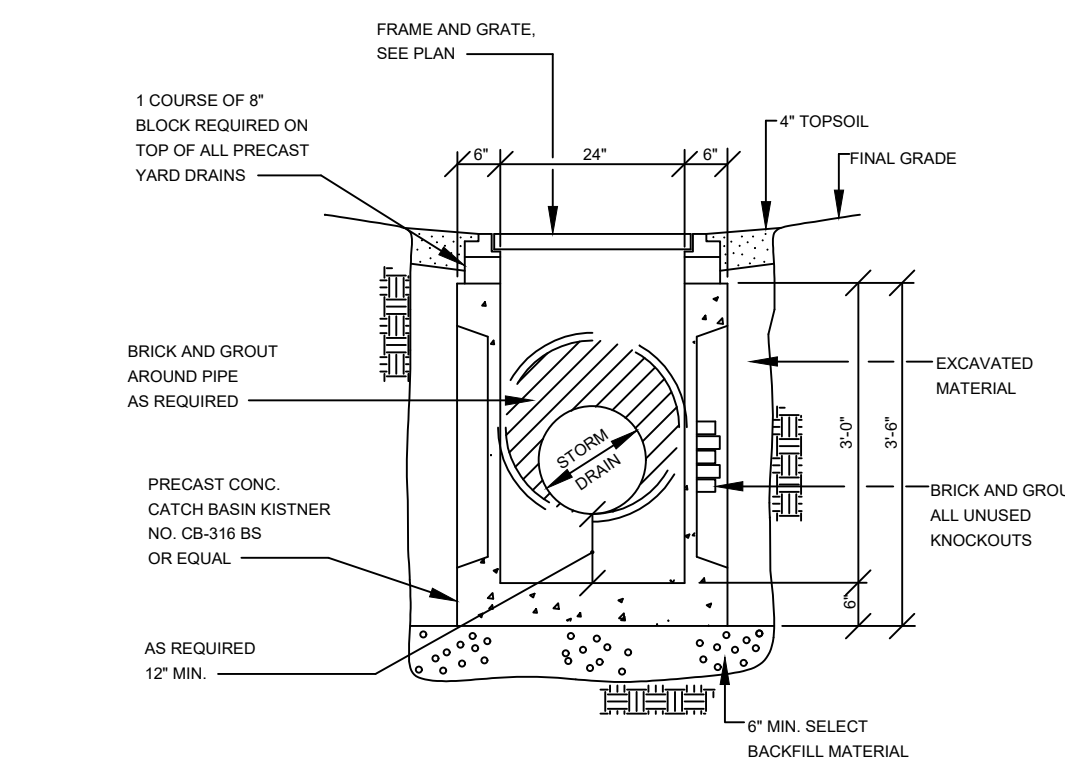
TYPICAL REAR YARD DRAIN DETAIL
N.T.S.



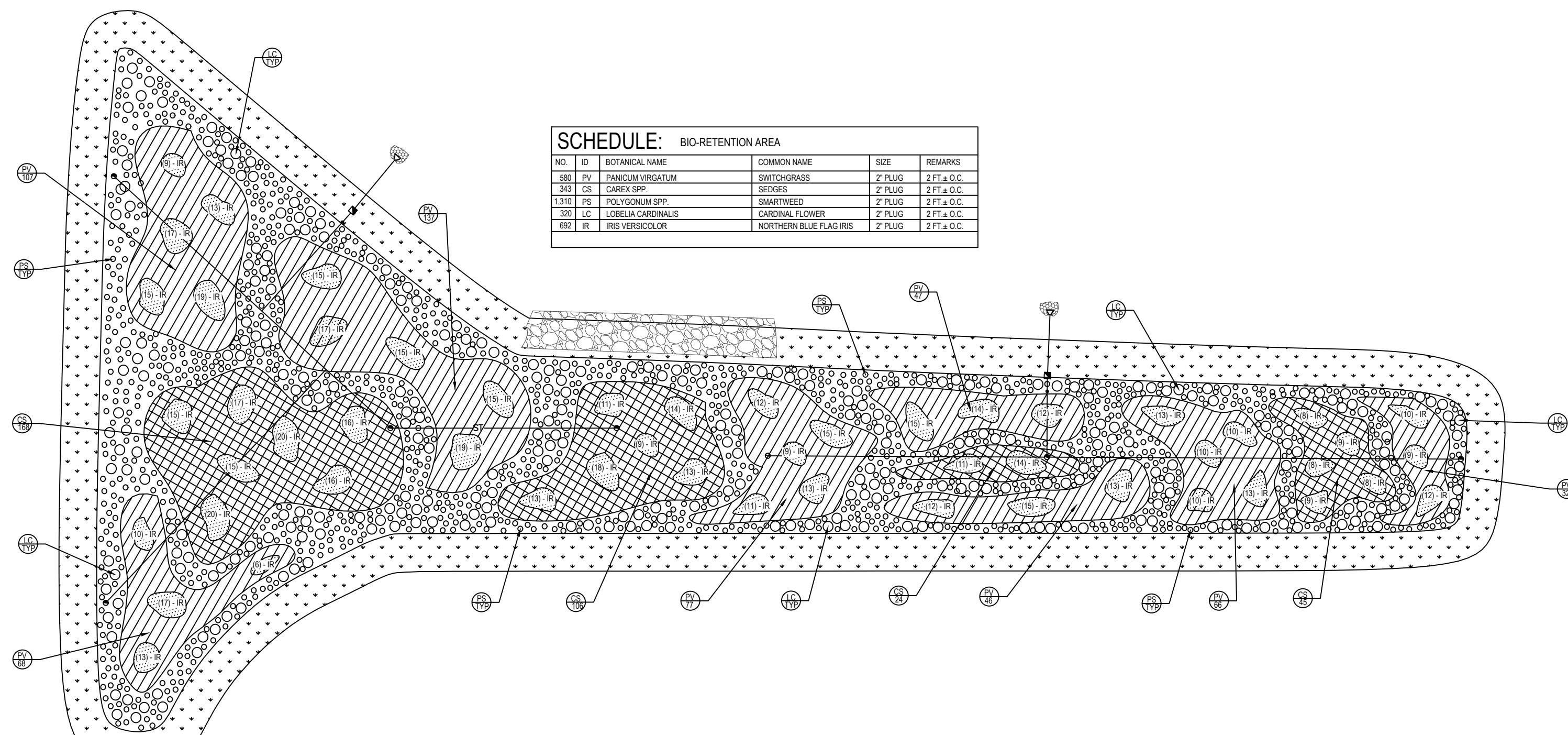
TYPICAL REAR YARD STORM DRAIN TRENCH DETAIL
N.T.S.



TYPICAL YARD DRAIN CATCH BASIN DETAIL
N.T.S.

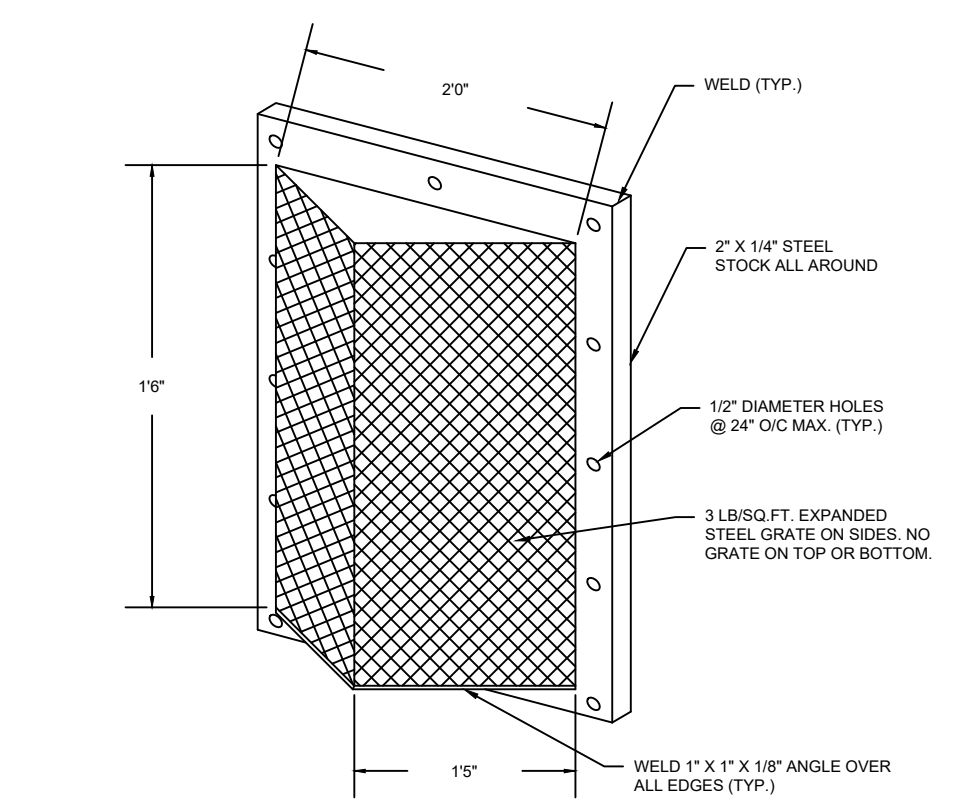


SECTION A-A
N.T.S.



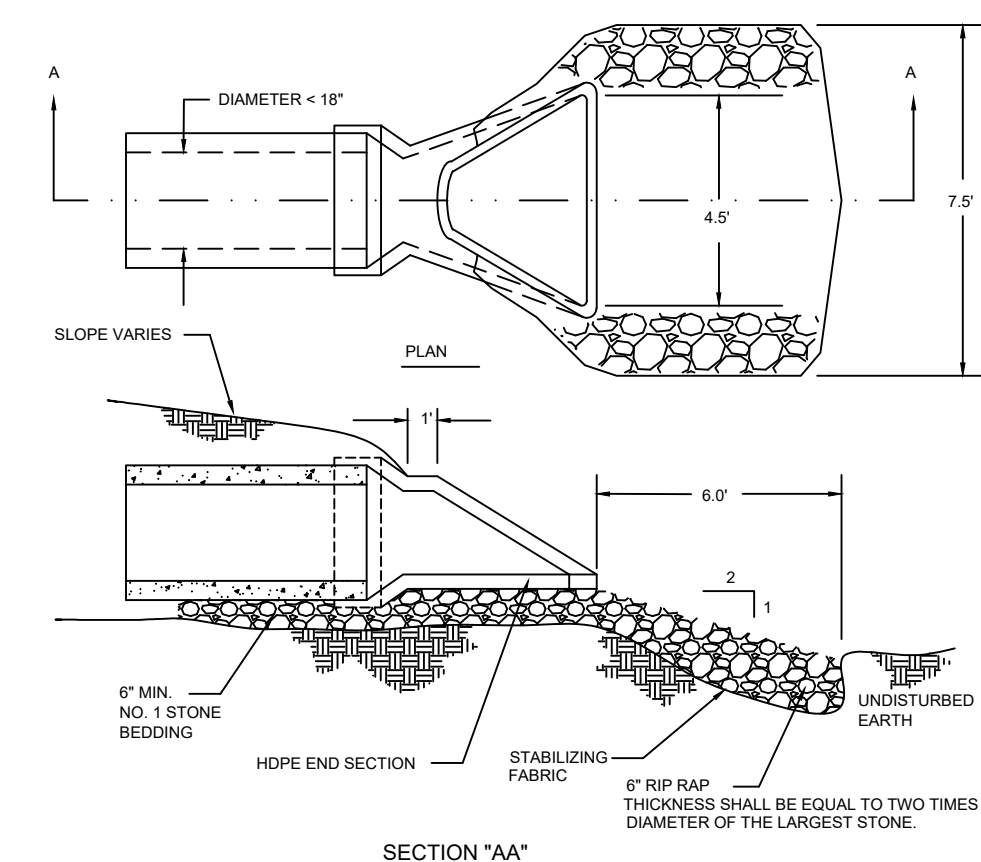
NO.	ID	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
180	IV	PANICUM VIRGATUM	Switchgrass	2' PLUG	2 FT x 0.02
181	CS	CAREX SPP.	Sedges	2' PLUG	2 FT x 0.02
1130	PS	POLYGONUM SPP.	Smartweed	2' PLUG	2 FT x 0.02
101	IC	LOBELIA CARDINALIS	Cardinal Flower	2' PLUG	2 FT x 0.02
102	IR	IRIS VERSICOLOR	Northern Blue Flag Iris	2' PLUG	2 FT x 0.02

BIO-RETENTION AREA SAMPLE PLANTING PLAN
N.T.S.

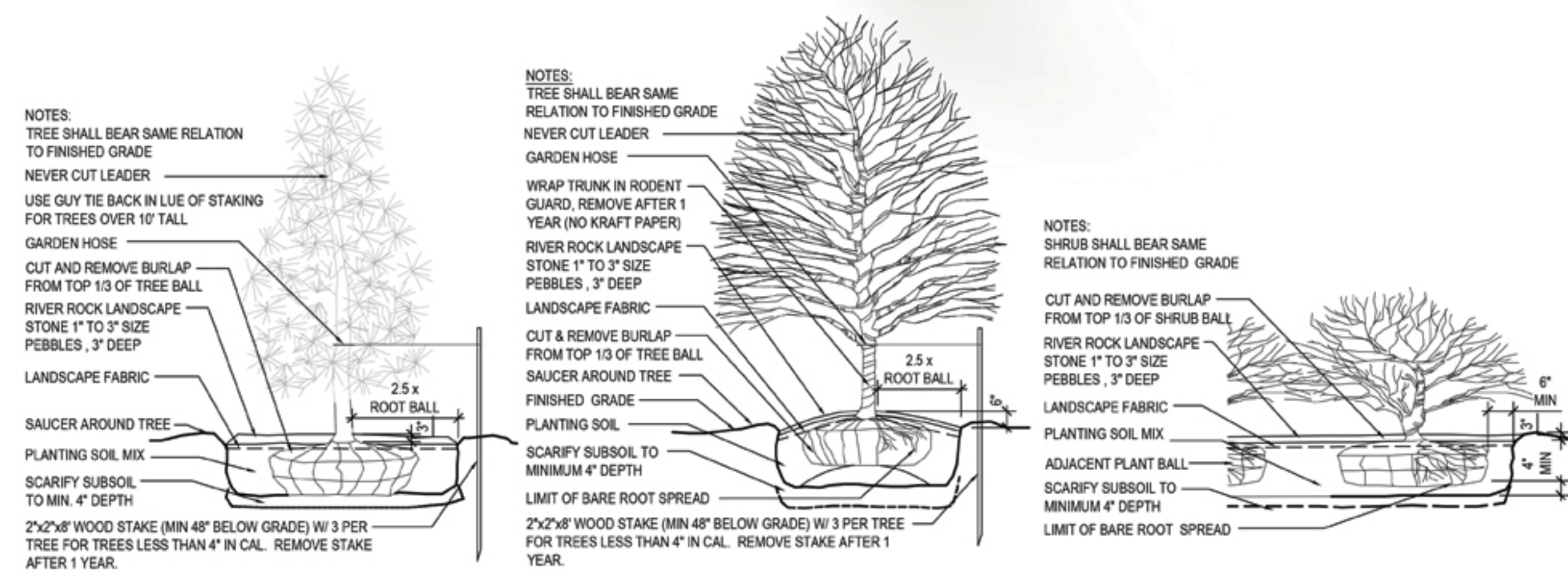


NOTES:
1. TRASH RACK TO BE CENTERED OVER OPENINGS.
2. STEEL TO CONFORM TO ASTM A-36.
3. ALL SURFACES TO BE COATED WITH ZINC COLD GALVANIZING COMPOUND AFTER WELDING.

TRASH RACK TYPICAL DETAIL
N.T.S.



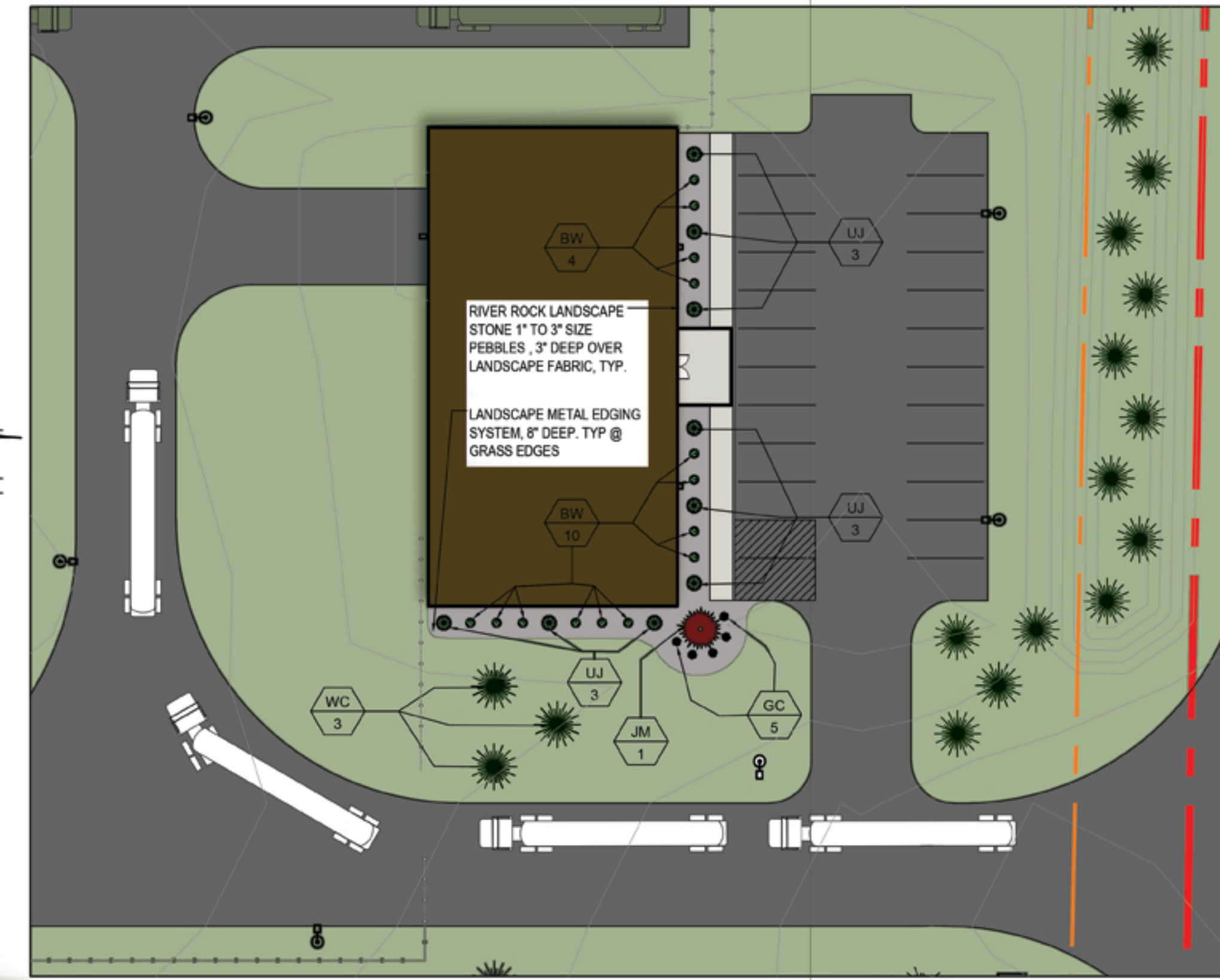
TYPICAL END SECTION W/ RIPRAP DETAIL
N.T.S.



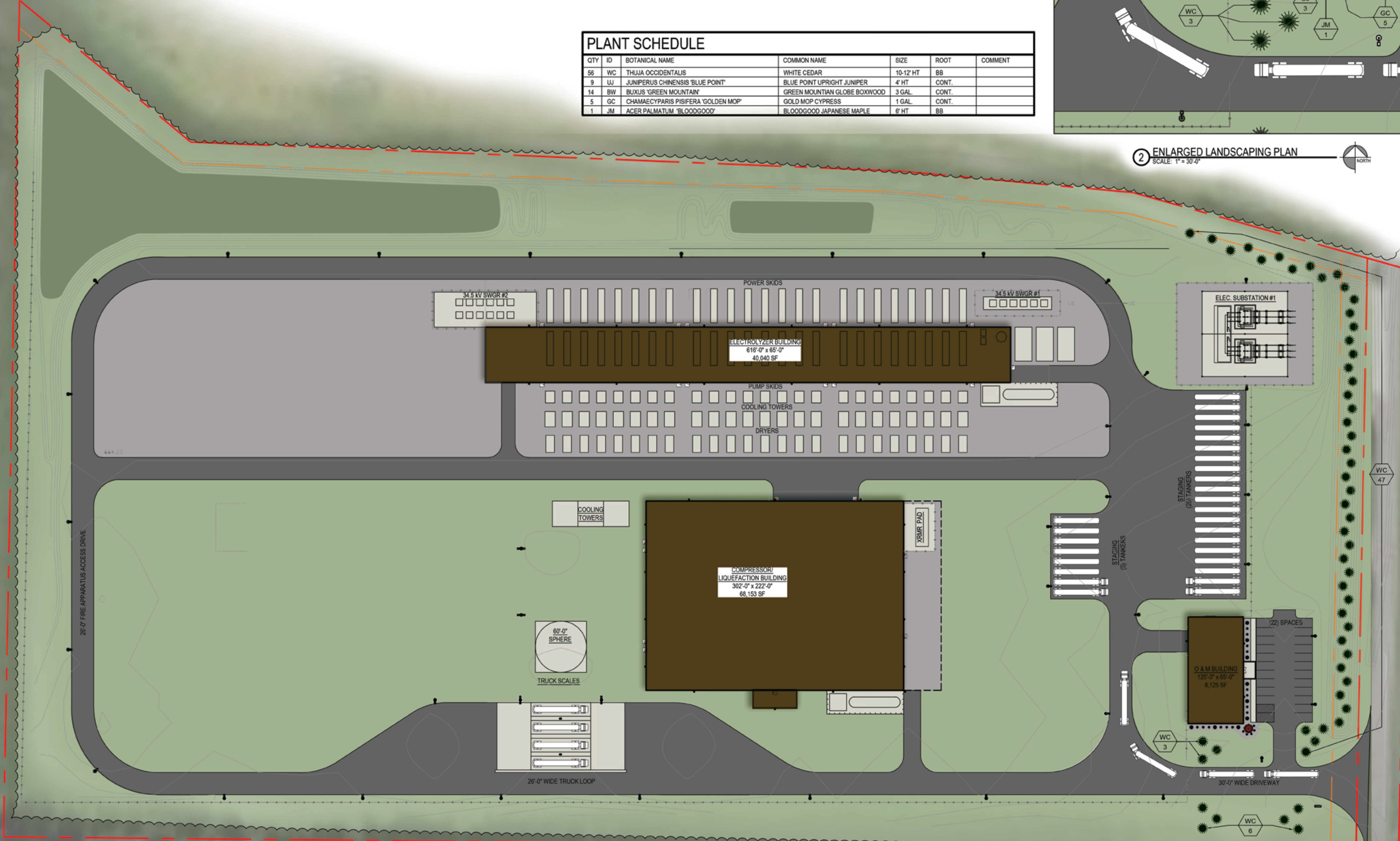
3 PLANTING DETAILS
SCALE: NTS

QTY	ID	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENT
56	WC	THUJA OCCIDENTALIS	WHITE CEDAR	10-12 HT	BB	
9	LU	JUNIPERUS CHINENSIS 'BLUE POINT'	BLUE POINT UPRIGHT JUNIPER	4' HT	CONT.	
14	BW	BUXUS 'GREEN MOUNTAIN'	GREEN MOUNTAIN GLOBE BOXWOOD	3 GAL.	CONT.	
5	GC	CHAMAECYPARIS PISIFERA 'GOLDEN MOP'	GOLD MOP CYPRESS	1 GAL.	CONT.	
1	JM	ACER PALMATUM 'BLOODGOOD'	BLOODGOOD JAPANESE MAPLE	6' HT	BB	

PLANT SCHEDULE



2 ENLARGED LANDSCAPING PLAN
SCALE: 1" = 30'-0"



1 PROPOSED LANDSCAPING PLAN
SCALE: 1" = 60'-0"



OWNER
 PLUG POWER
 968 ALBANY SHAKER ROAD
 LATHAM, NEW YORK 12110



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 O. 716.691.9200
 ATSI.COM



CONTACT
 111 ELMWOOD AVENUE
 BUFFALO, NY 14201
 O. 716.884.0259
 F. 716.884.6414
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ISSUE DATE	DESCRIPTION
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SHEET TITLE
 PROPOSED LANDSCAPING PLAN, SCHEDULE, & DETAILS

PROJECT NUMBER
 2021-001
 PLOT DATE
 5/24/2021 12:40:44 PM
 SHEET
 C9



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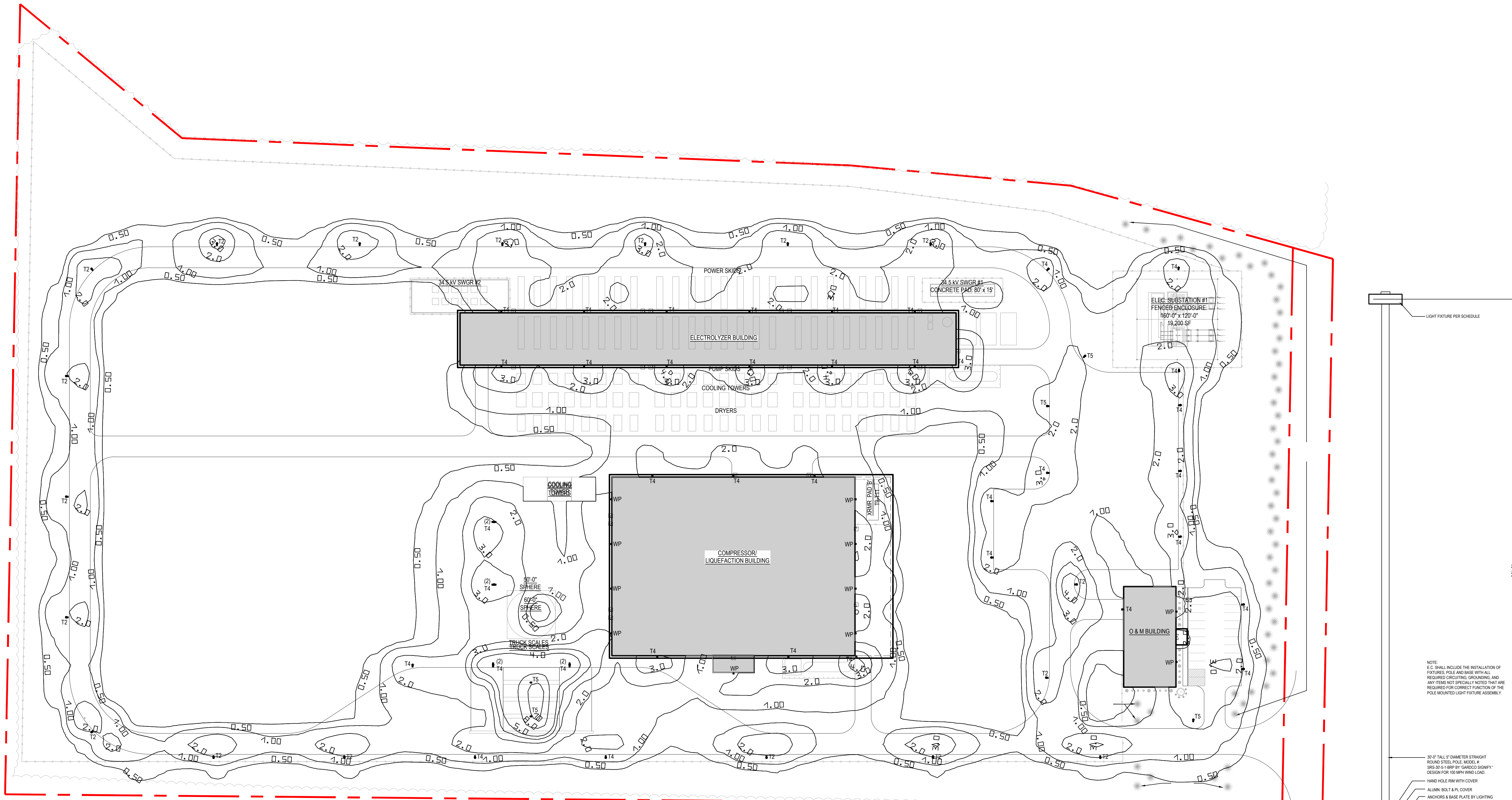


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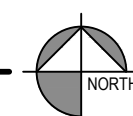
SHEET TITLE:
**SITE LIGHTING PLAN,
SCHEDULE, & DETAIL**

PROJECT NUMBER:
2021-001
PLOT DATE:
5/24/2021 5:00:21 PM
SHEET

C10



1 PROPOSED SITE LIGHTING PLAN
SCALE: 1" = 60'-0"



EXTERIOR LIGHT FIXTURE SCHEDULE												
No.	QTY	DESCRIPTION	MFGR	MODEL No.	MOUNTING	COLOR TEMP.	LUMEN OUTPUT	WATTAGE	EFFICACY (LPW)	BUG RTANG	VOLTAGE	COMMENTS
T2	18	FULL CUT-OFF LED TYPE 2 AREA LIGHT	SIGNIFY GARDCO	ECF-S-48L-1A-WW-G2-2	POLE MOUNTED @ 32' AFG	3,000K	19,378	159 W	122	B3 U0 G3	480 V	1.4
T4	42	FULL CUT-OFF LED TYPE 4 AREA LIGHT	SIGNIFY GARDCO	ECF-S-48L-1A-WW-G2-4	(1) POLE MOUNTED @ 32' AFG (1) SURFACE MOUNTED TO BUILDING @ 25' AFF	3,000K	19,835	159 W	125	B3 U0 G4	480 V	1.4
T5	5	FULL CUT-OFF LED TYPE 5 AREA LIGHT	SIGNIFY GARDCO	ECF-S-44L-1A-WW-G2-5	(3) POLE MOUNTED @ 32' AFG (2) SURFACE MOUNTED TO PIPE STRUCTURE @ 25' AFG	3,000K	26,152	206 W	128	B5 U0 G3	480 V	1.4
WP	11	FULL CUT-OFF LED WALL PACK	SIGNIFY GARDCO	PWS-140L-2100-WW-G2-4-UNV	WALL MOUNTED @ 20' AFF	3,000K	10,332	96 W	108	B3 U0 G3	480 V	1.4

- COMMENTS:
1. FIXTURE IS DARK SKY APPROVED
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. COLOR: BRONZE
4. CONTROL ALL FIXTURES BY TIMER IN O&M BUILDING

THROUGH THE BASE CONDUIT & BRANCH WIRE CONDUIT SHALL BE 2" BELOW GRADE OR ENCASED IN CONCRETE. ELECTRICAL CONTRACTOR SHALL SIZE CONDUCTOR, GROUND & CONDUIT AS APPLICABLE FOR NEW LIGHT FIXTURES.

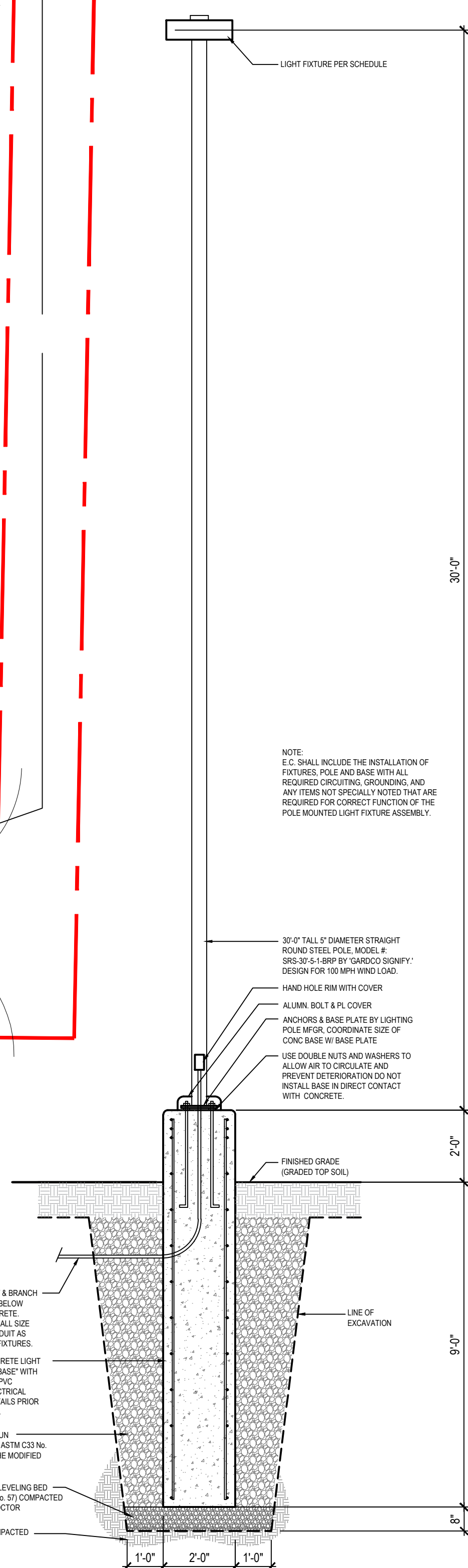
24" DIAMETER PRECAST CONCRETE LIGHT POLE FOUNDATION BY "POLE BASE" WITH STEEL REINFORCEMENT AND PVC CONDUITS COORDINATE ELECTRICAL RINGS & POLE MOUNTING DETAILS PRIOR TO START OF CONSTRUCTION.

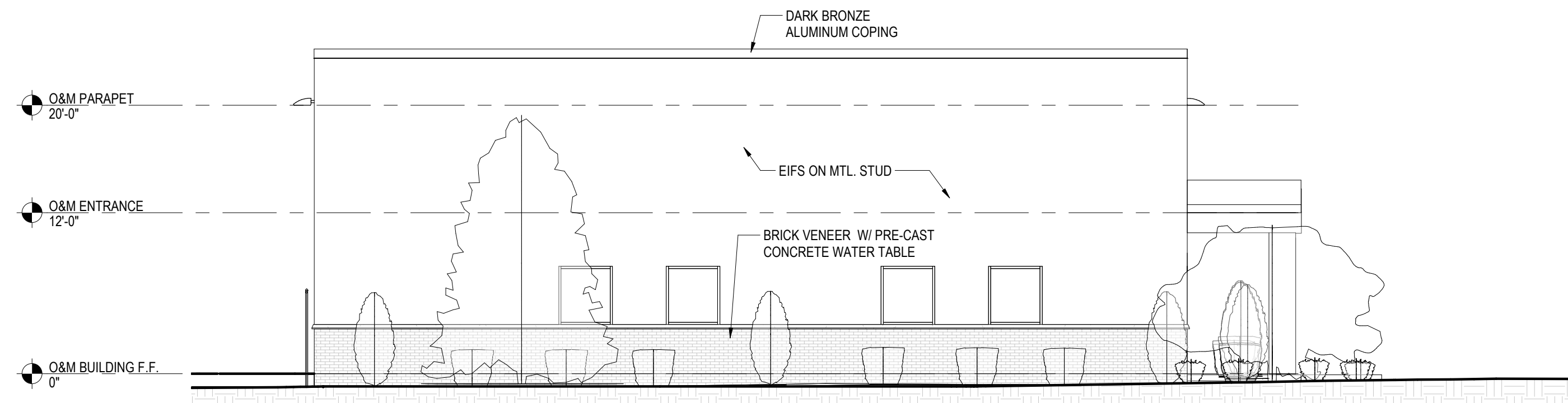
BACKFILL WITH 1" CRUSHER RUN LIMESTONE CONFORMING TO ASTM C33 No. 57) COMPACTED TO 95% OF THE MODIFIED PROCTOR IN 12" LIFTS

1" CRUSHER RUN LIMESTONE LEVELING BED (CONFORMING TO ASTM C33 No. 57) COMPACTED TO 95% OF THE MODIFIED PROCTOR

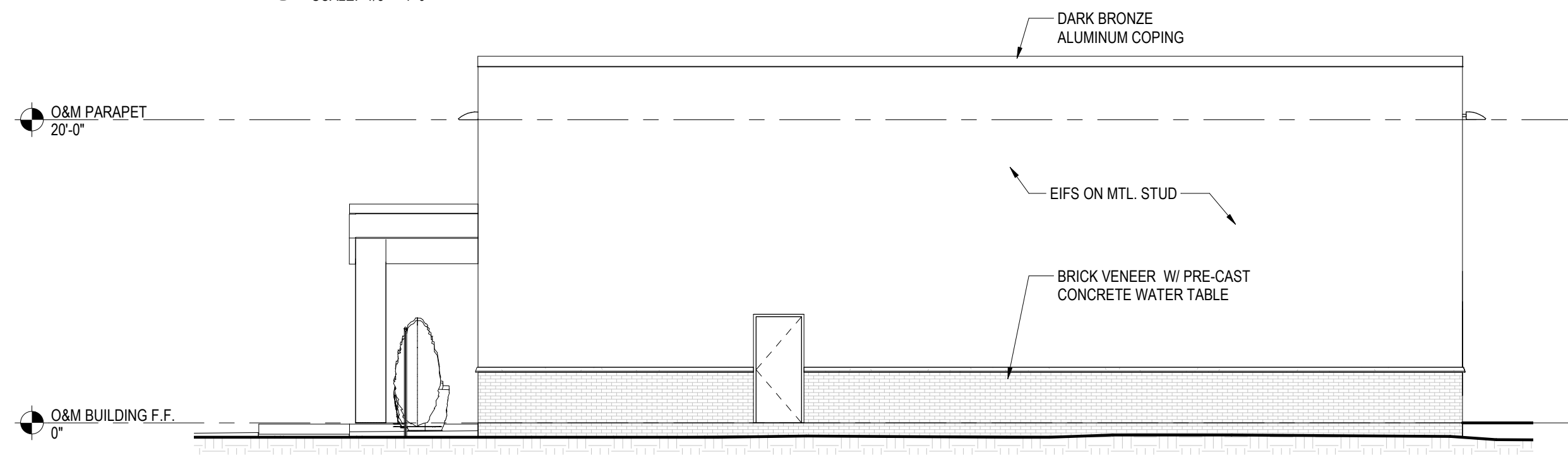
UNDISTURBED EARTH OR COMPACTED SUB-GRADE

2 TYP. LIGHT POLE DETAIL
SCALE: 3/8" = 1'-0"

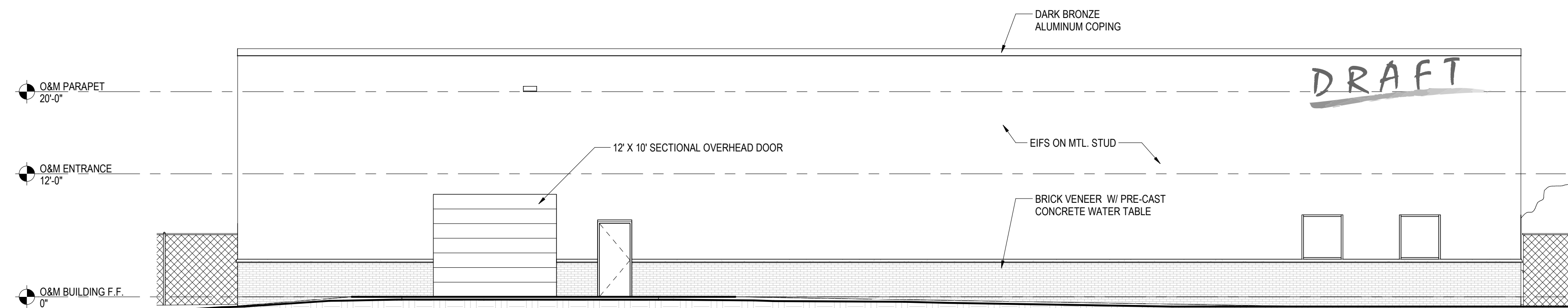




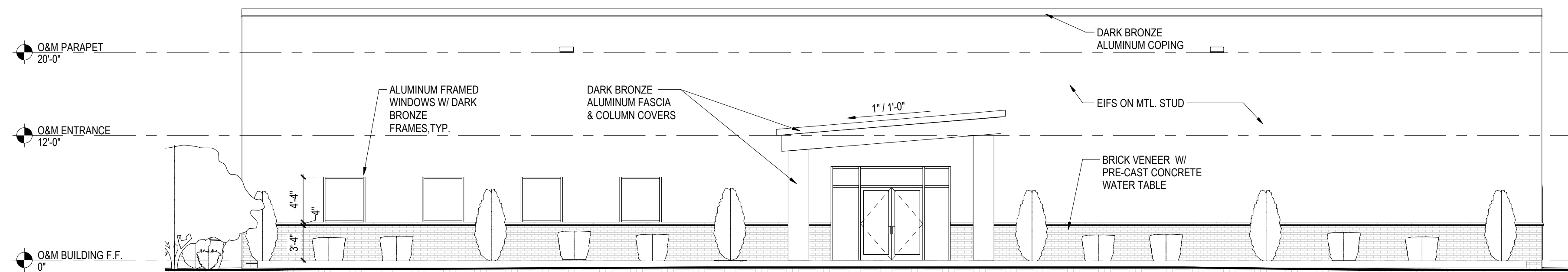
1 SOUTH ELEVATION OF OPERATION & MAINTENANCE BUILDING
SCALE: 1/8" = 1'-0"



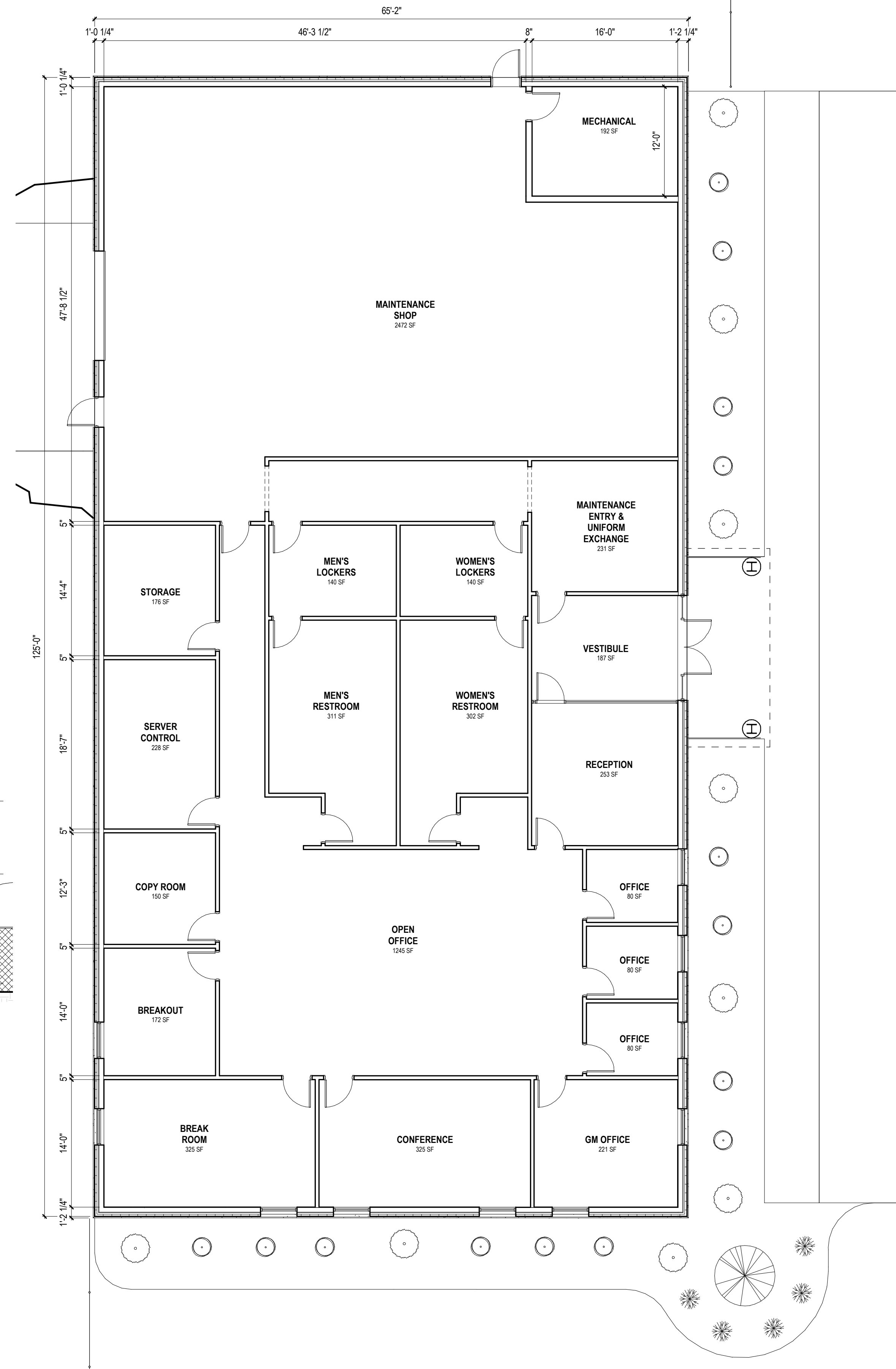
2 NORTH ELEVATION OF OPERATION & MAINTENANCE BUILDING
SCALE: 1/8" = 1'-0"



3 WEST ELEVATION OF OPERATION & MAINTENANCE BUILDING
SCALE: 1/8" = 1'-0"



4 EAST ELEVATION OF OPERATION & MAINTENANCE BUILDING
SCALE: 1/8" = 1'-0"



5 PRELIMINARY FLOOR PLAN OF OPERATION & MAINTENANCE BUILDING
SCALE: 1/8" = 1'-0"



OWNER
PLUG POWER
968 ALBANY SHAKER ROAD
LATHAM, NEW YORK 12110
PROJECT
HYDROGEN PRODUCTION FACILITY
(STAMP - PROJECT GATEWAY)
ALABAMA, NY 14013



CONTACT
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SCHEIDAIA.COM



ATSI, INC.
415 COMMERCE DRIVE
AMHERST, NY 14228

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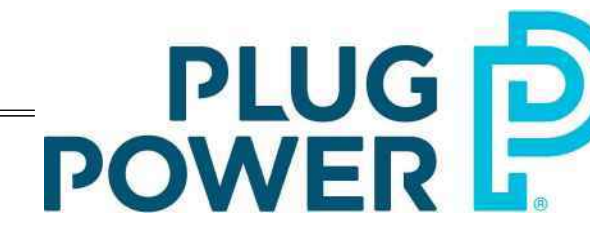
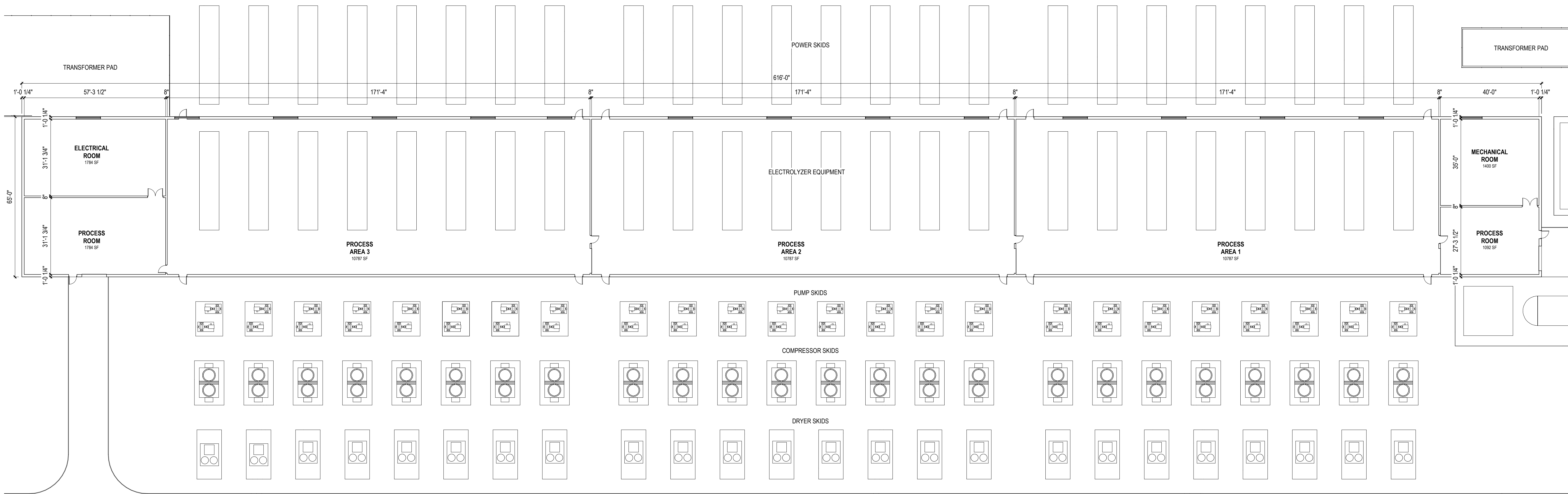


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SHEET TITLE
**PROPOSED FLOOR PLAN &
EXTERIOR ELEVATIONS - O&M
BUILDING**

PROJECT NUMBER
2021-001
PLOT DATE
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SHEET
A1



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ALABAMA, NY 14013



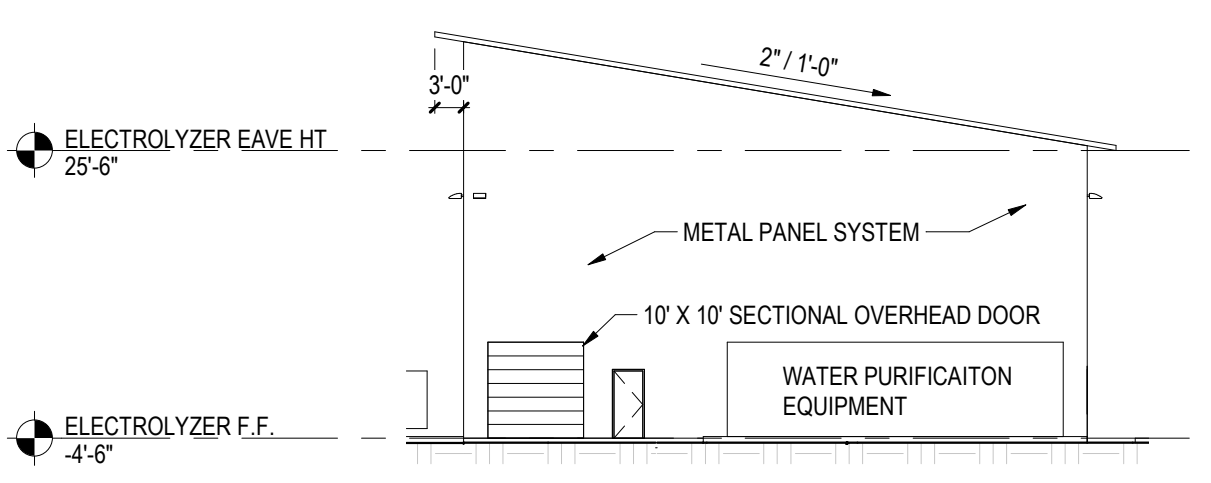
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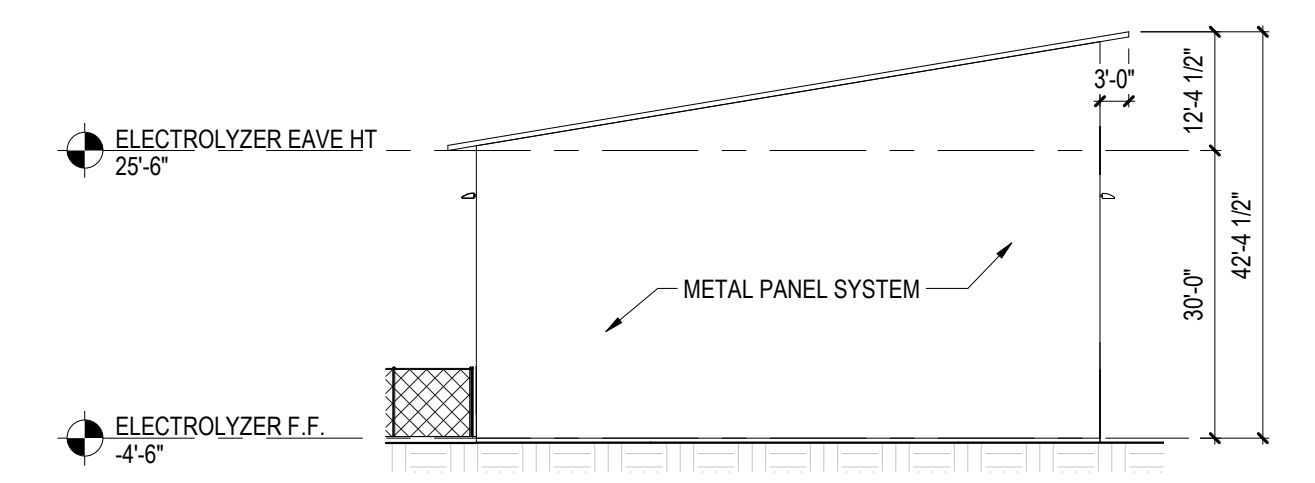
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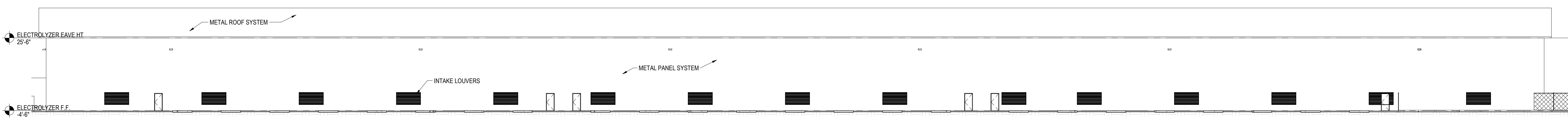
1 PRELIMINARY FLOOR PLAN OF ELECTROLYZER BUILDING
SCALE: 1" = 20'-0"



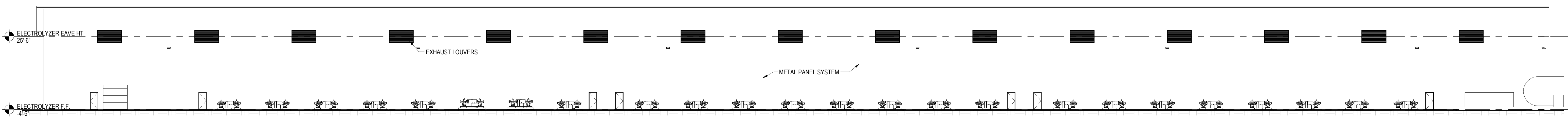
2 EAST ELEVATION OF ELECTROLYZER BUILDING
SCALE: 1" = 20'-0"



3 WEST ELEVATION OF ELECTROLYZER BUILDING
SCALE: 1" = 20'-0"

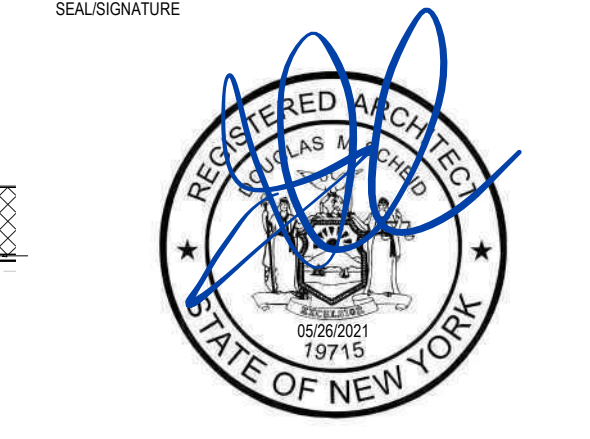


4 NORTH ELEVATION OF ELECTROLYZER BUILDING
SCALE: 1" = 20'-0"



5 SOUTH ELEVATION OF ELECTROLYZER BUILDING
SCALE: 1" = 20'-0"

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SHEET TITLE:
PROPOSED FLOOR PLAN &
EXTERIOR ELEVATIONS -
ELECTROLYZER BUILDING

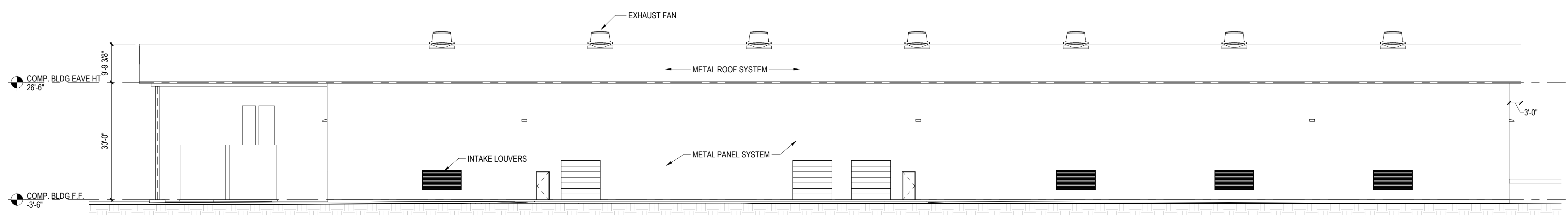
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2021-001

PLOT DATE:
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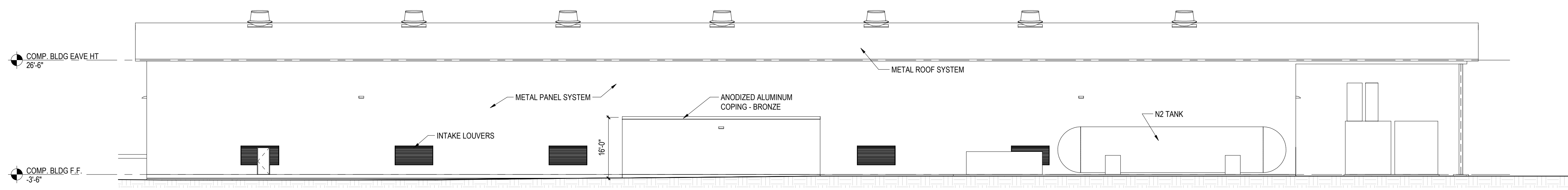
SHEET

A2

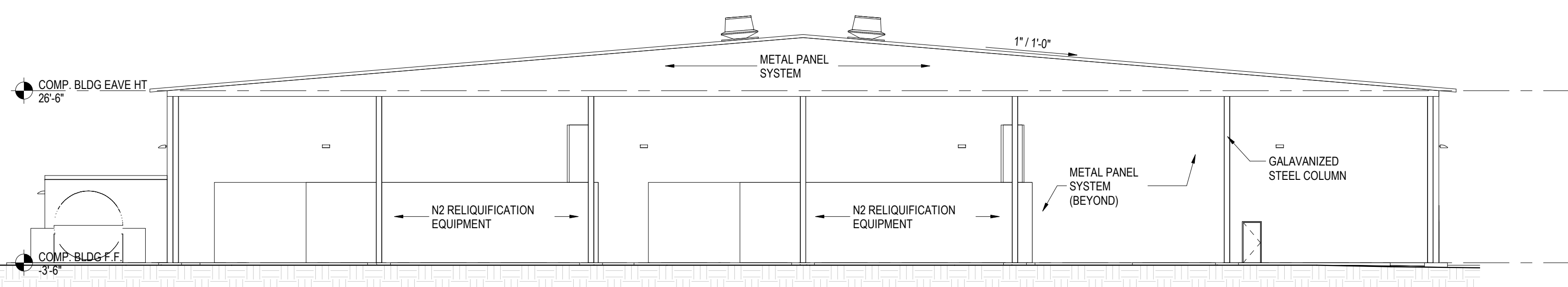
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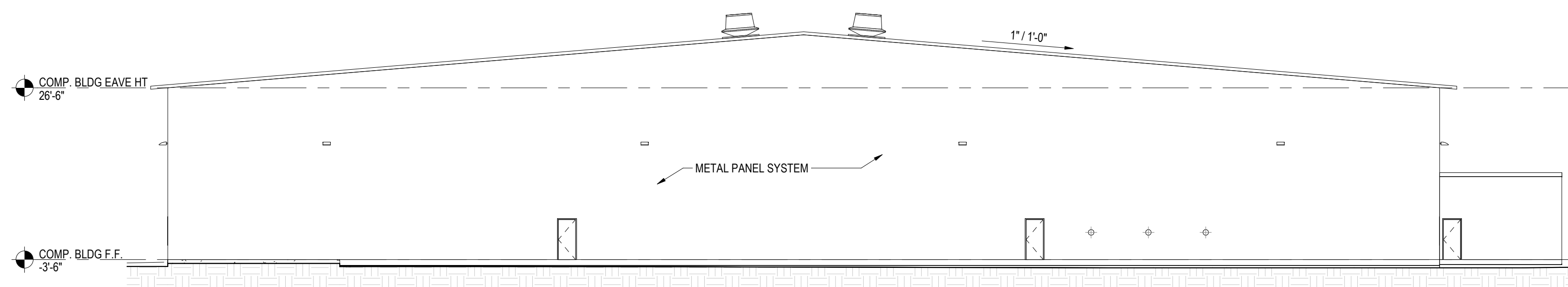
1 NORTH ELEVATION OF COMPRESSOR / LIQUEFACTION BUILDING
SCALE: 1/16" = 1'-0"



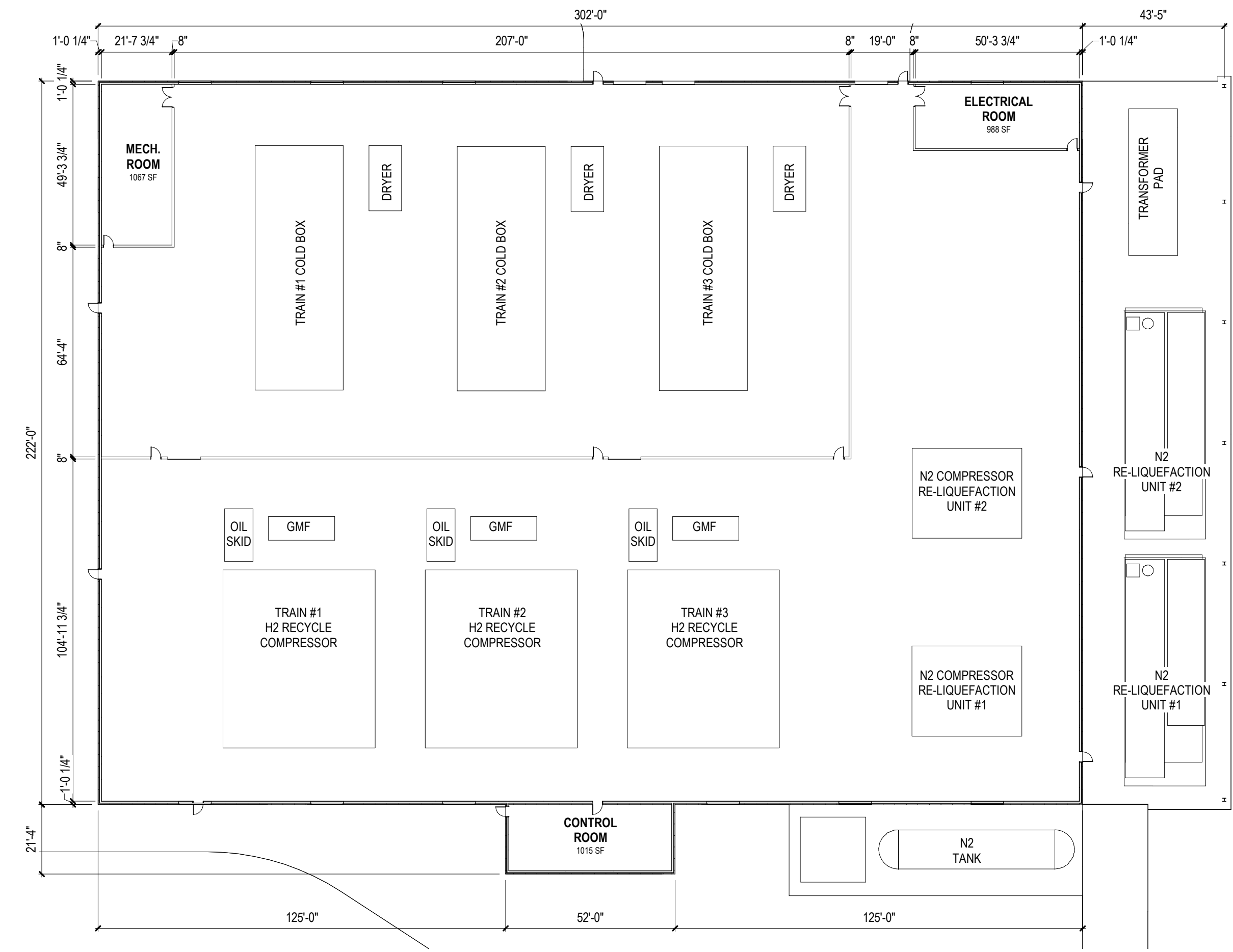
2 SOUTH ELEVATION OF COMPRESSOR / LIQUEFACTION BUILDING
SCALE: 1/16" = 1'-0"



3 EAST ELEVATION OF COMPRESSOR / LIQUEFACTION BUILDING
SCALE: 1/16" = 1'-0"

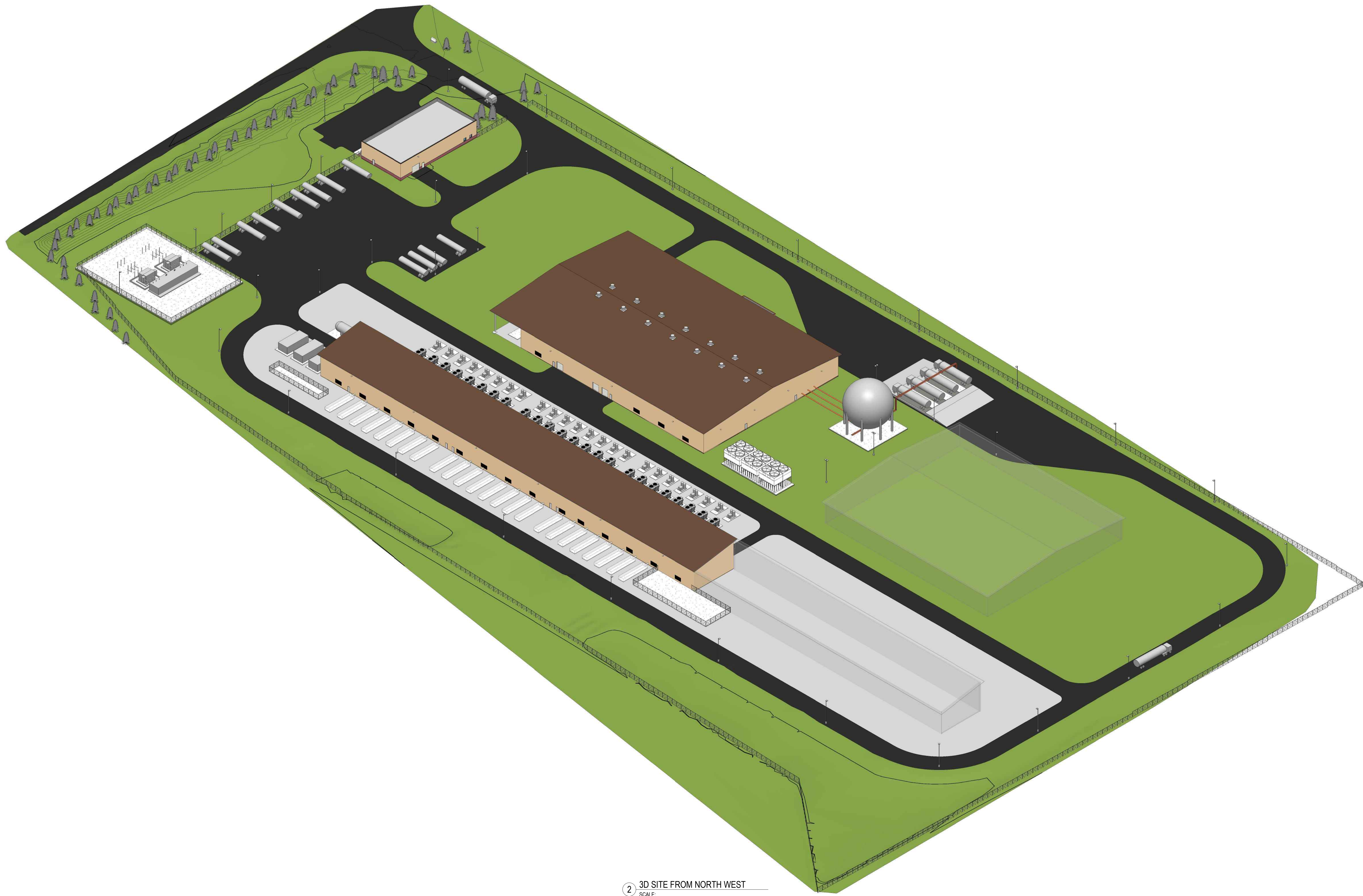


4 WEST ELEVATION OF COMPRESSOR / LIQUEFACTION BUILDING
SCALE: 1/16" = 1'-0"



5 PRELIMINARY FLOOR PLAN OF COMPRESSOR / LIQUEFACTION BUILDING
SCALE: 1" = 30'-0"





2 3D SITE FROM NORTH WEST
SCALE:



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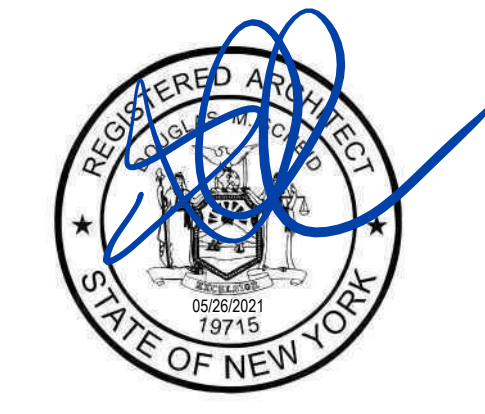
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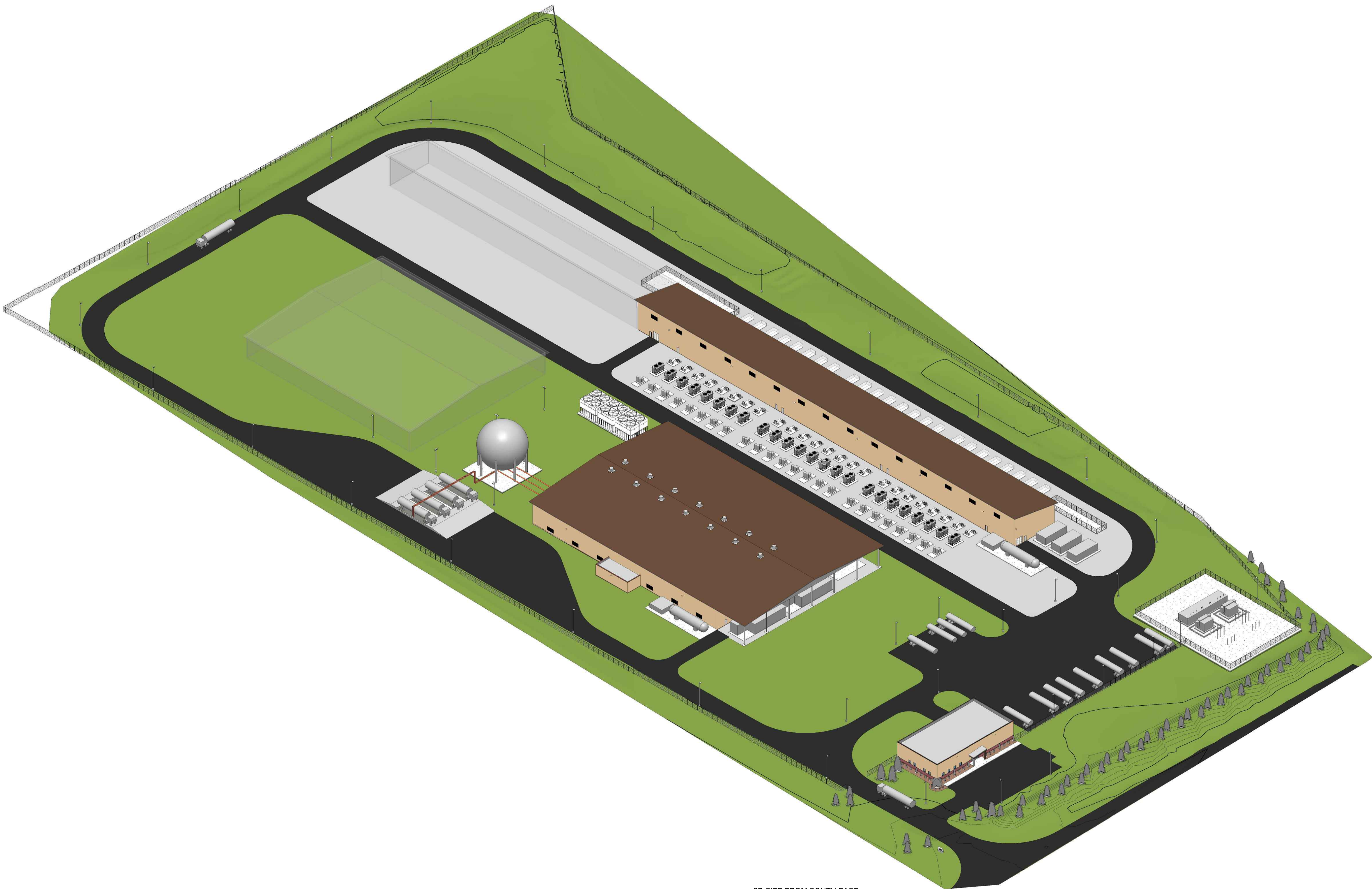
SHEET TITLE
3D SITE FROM NORTH WEST

PROJECT NUMBER
2021-001

PLOT DATE
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SHEET

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1 3D SITE FROM SOUTH EAST
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SHEET TITLE
3D SITE FROM SOUTH EAST