



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



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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ATSI, INC.
415 COMMERCE DRIVE
AMHERST, NY 14228

ISSUE DATE	DESCRIPTION
05/26/2021	SITE PLAN SUBMISSION
07/16/2021	SITE PLAN SUBMISSION REVISED

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SEAL/SIGNATURE



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SHEET TITLE
COVER SHEET

PROJECT NUMBER
2021-001

PLOT DATE
7/16/2021 8:23:33 AM

SHEET
G1

SITE DATA - PLUG POWER HYDROGEN PRODUCTION FACILITY

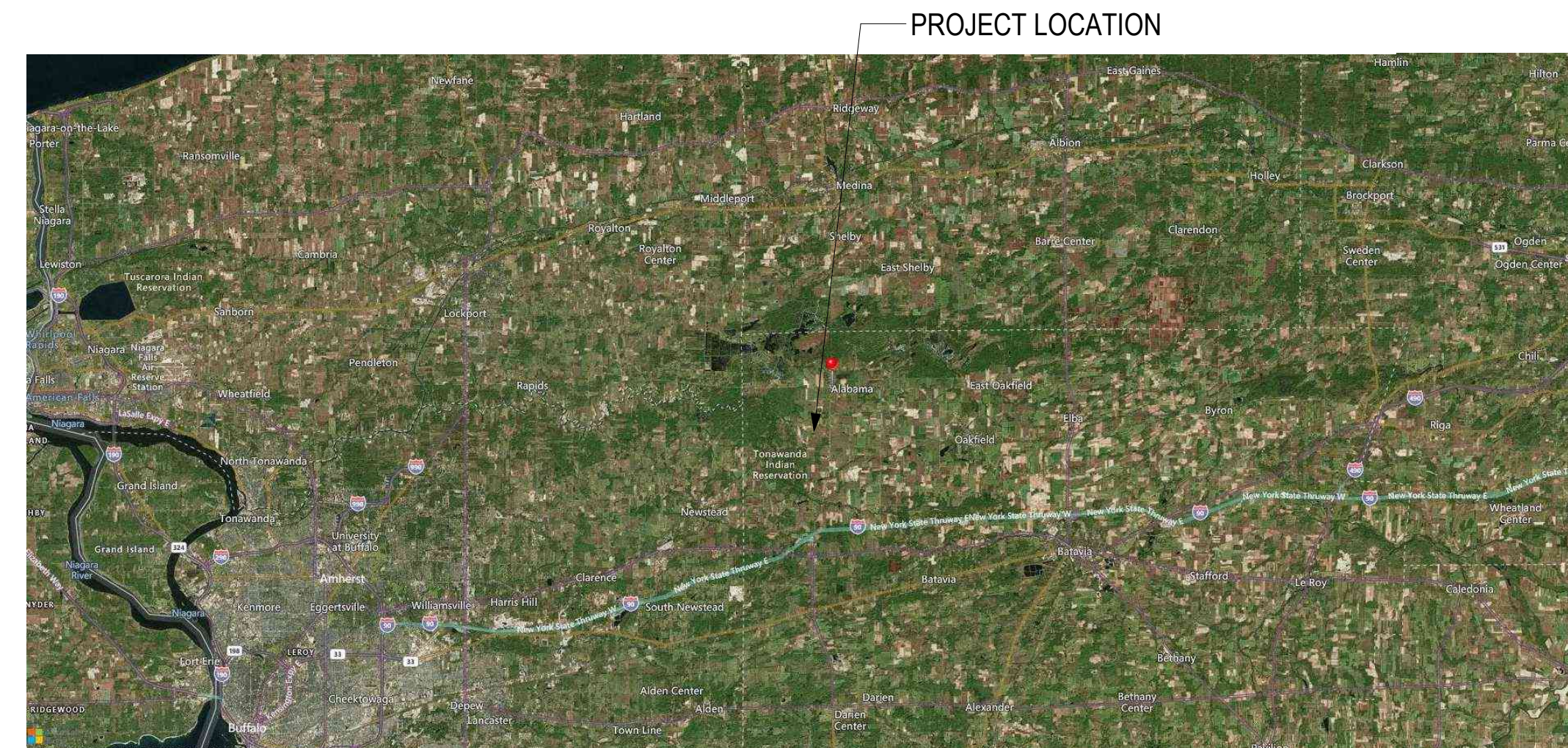
SITE AREA	29.096 ACRES (1,267,422 SF)	
ZONING CLASSIFICATION	TECHNOLOGY DISTRICT 1 (TD1)	
PERMITTED USES:		
- TECHNOLOGY MANUFACTURING		
- LIGHT INDUSTRY (THE PROCESSING, FABRICATION, ASSEMBLY OR PACKAGING OF PREVIOUSLY PREPARED OR REFINED MATERIALS)		
- ACCESSORY BUILDINGS		
YARD REQUIREMENTS:		
	REQUIRED	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 USE.		
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



3 AERIAL IMAGE
SCALE: NTS



4 LOCATION MAP
SCALE: NTS

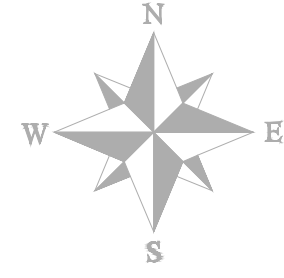
DRAWING INDEX

- GENERAL
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- A5 3D SITE FROM SOUTH EAST

MAP REFERENCES:
 PROPOSED WYDER PARCEL A, A PORTION OF SBL 10-1-42, 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.
 STAMP BASEMAP 2019 PROVIDED BY CLARK PATTERSON LEE ARCHITECTURE ENGINEERING PLANNING

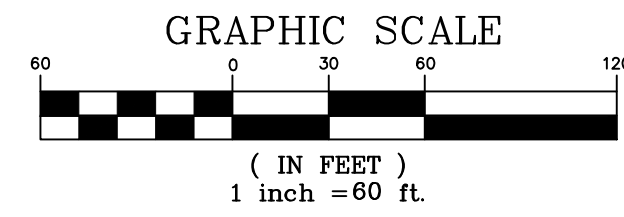
LEGEND

—ST—	STORM SEWER LINE
INV	INVERT ELEVATION
UP	UTILITY POLE
UPL	UTILITY POLE W/ LIGHT
—OHW—	OVERHEAD WIRES
MW	MONITORING WELL
EP	EDGE OF PAVEMENT
CP	PRIMARY CONTROL POINT
○	TREE DECIDUOUS
✱	TREE CONIFEROUS



BM SURVEY CONTROL
 VERTICAL DATUM = NAVD88
 HORIZONTAL DATUM = NAD83

Point	Northing	Easting	Elevation	Description
5000	1125631.9878	1196302.2694	672.30	MAGNAN
5001	1123663.9105	1196266.7062	671.81	MAGNAN



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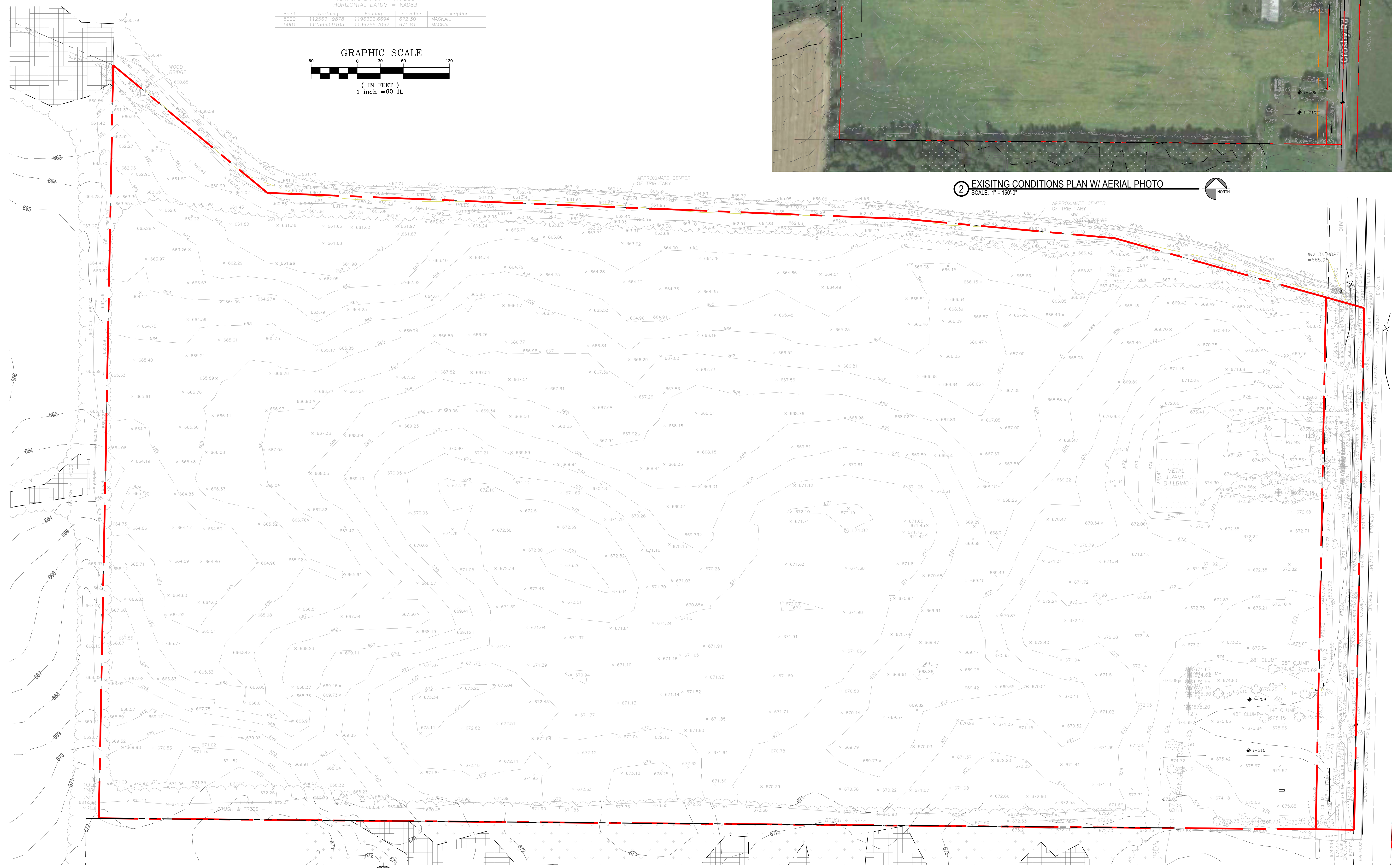
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EXISTING CONDITIONS PLAN

PROJECT NUMBER
 2021-001
 PLOT DATE
 7/16/2021 9:13:11 AM
 SHEET
C1



1 EXISTING CONDITIONS PLAN
 SCALE: 1" = 60'-0"

2 EXISTING CONDITIONS PLAN W/ AERIAL PHOTO
 SCALE: 1" = 150'-0"

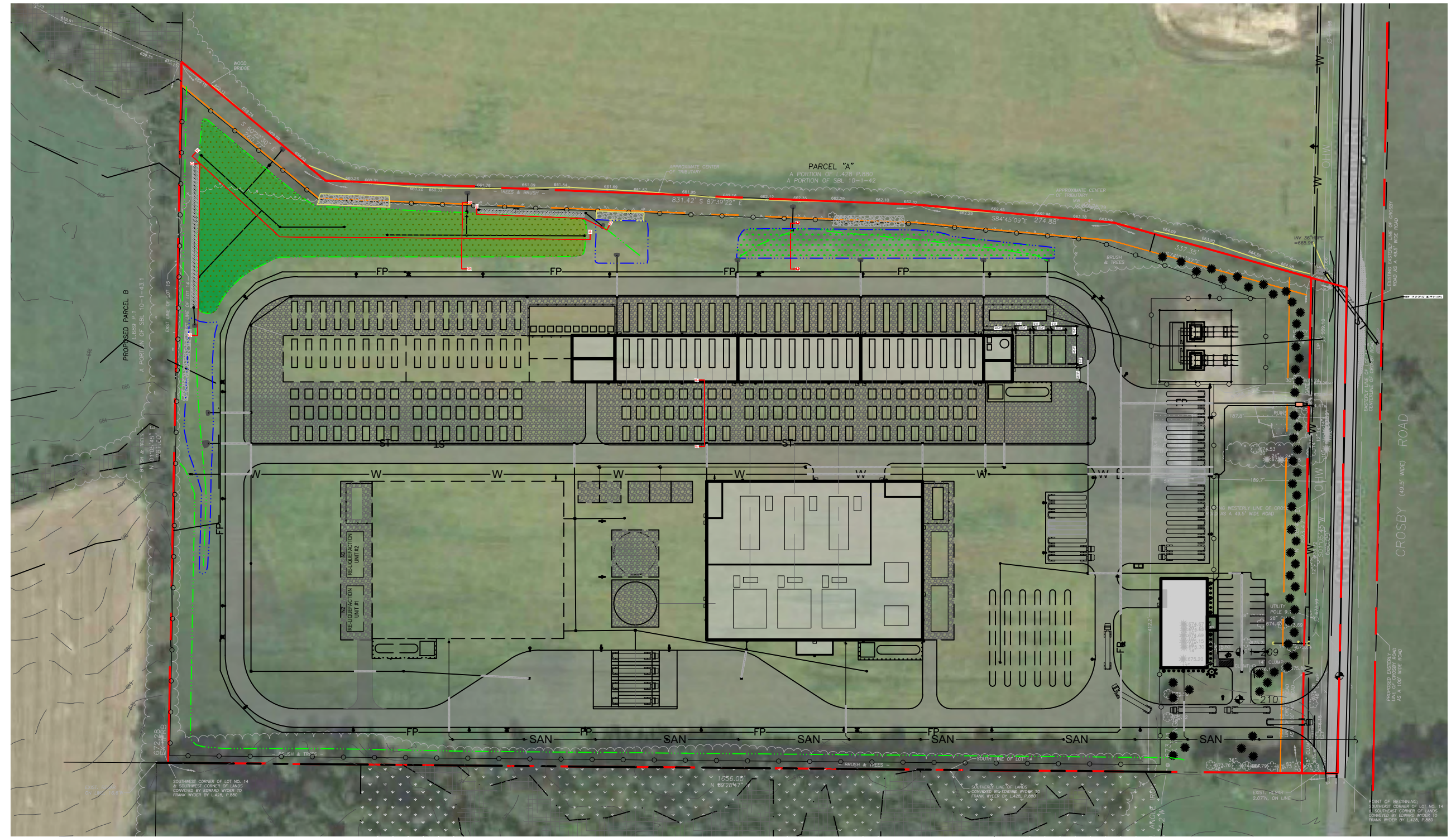
CROSBY (49.5' WIDE) ROAD

LEGEND (NTS)

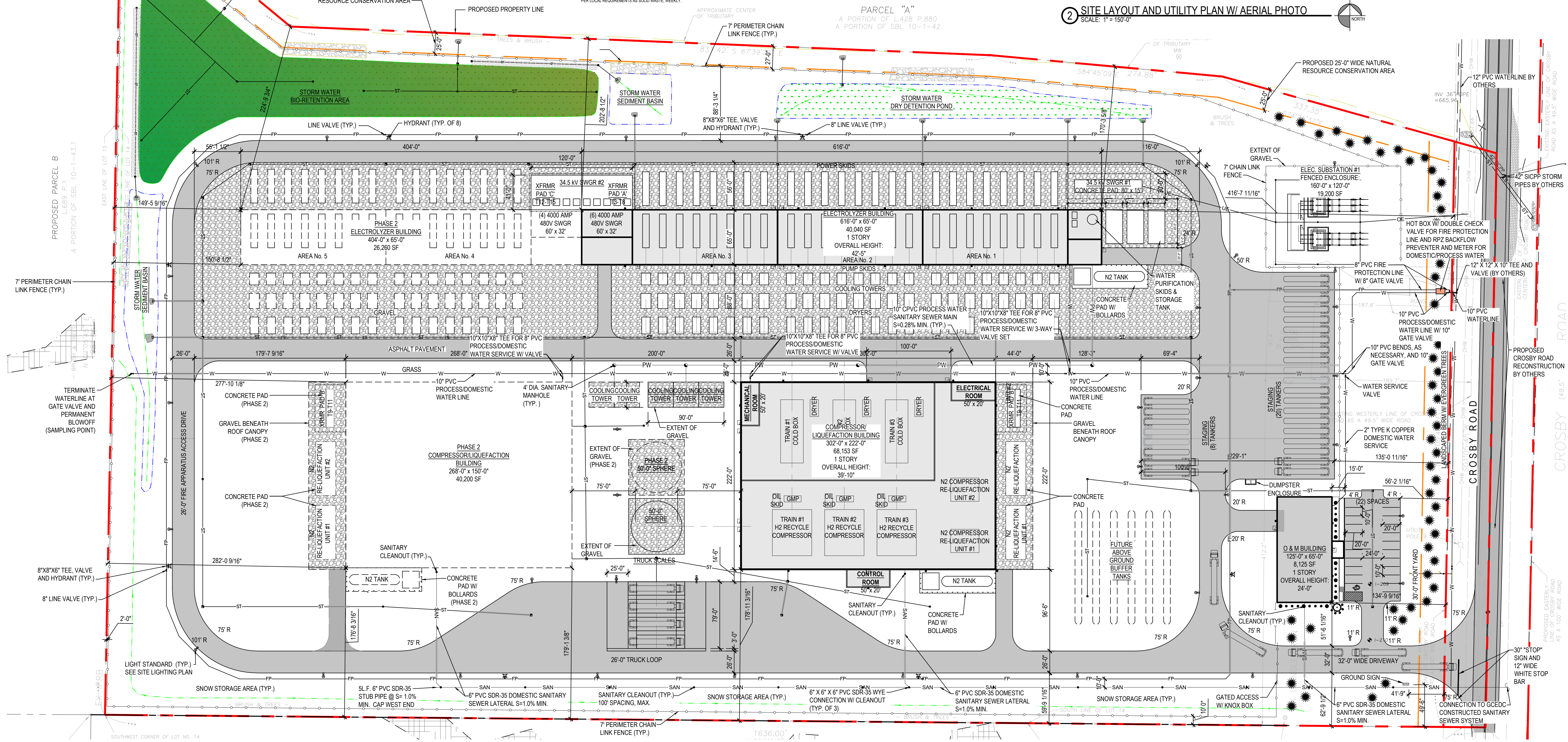
---	UG	UNDERGROUND ELECTRIC/ABLE
---	OW	OVERHEAD ELECTRIC
---	W	WATER
---	SAN	SANITARY SEWER (DOMESTIC)
---	PW	SANITARY SEWER (PROCESS WASTE)
---	ST	STORM SEWER
---	---	CONTOUR
---	---	SPOT ELEVATIONS
---	---	PROPERTY ROW LINE
---	---	EASEMENT
---	---	SETBACK
---	---	SELECT BACKFILL
---	---	UTILITY POLE
---	---	LIGHT
---	---	ELECTRIC MANHOLE
---	---	SANITARY MANHOLE
---	---	STORM MANHOLE
---	---	CATCHBASIN (ROADWAY)
---	---	REAR YARD DRAIN (INLET)
---	---	HYDRANT
---	---	SANITARY CLEANOUT
---	---	VEGETATED SWALE
---	---	GRADE TO DRAIN
---	---	DRAINAGE FLOW ARROW
---	---	WATER VALVE

- 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 P.O. AT LEAST TWO WORKING DAYS PRIOR TO ANY EXCAVATION 1-800-982-7992. THE CONTRACTOR SHALL MAKE EXCAVATION 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 ROUGH 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 5 FEET OF THE BACK OF CURB MUST BE BACKFILLED WITH MECHANICALLY TAMPED RUN OF CRUSHER STONE MAX. 6" LFTS. SELECT FILL IS REQUIRED UNDER ALL PAVED AREAS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE 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 2" 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, SLIPAGE, SETTLEMENT, SUBSIDENCE 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 HIGHLY 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 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 CANDELLA 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 GLYN GROUP ENGINEERING & ARCHITECTURE, P.L.L.C. DATED MARCH 18, 2021. REPORT IS INCLUDED IN THE BID PACKAGE. SUBVISION OF A BFO 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 MSHA 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 10" OF HORIZONTAL AND 10" OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES. WATERLINE TO BE SELECTED 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 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 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 RM 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 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.
- BIO-RETENTION AREA PLANTINGS TYPE TO BE OBTAINED FROM TABLE 14.5 NATIVE 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. 10" ON CENTER - SEE SAMPLE BIO-RETENTION AREA PLANTING PLAN.
- VEGETATED SWALES TO BE PLANTED WITH PERMANENT VEGETATION SEED MIXTURE AND MAINTAINED AT A 6" HEIGHT.
- CONTRACTOR TO KEEP CROSSBY 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.
- ALL BUILDINGS TO BE SINGLE STORY - SEE ARCHITECTURAL PLANS FOR BUILDING HEIGHTS AND ELEVATIONS.
- PAD SIZE, LOCATION AND SPECIFICATIONS FOR CONCRETE DUMPSTER PAD AREA TO BE DETERMINED BY OWNER, CONTRACTOR AND REUSE COMPANY PRIOR TO CONSTRUCTION. DUMPSTER AREA TO BE ENCLOSED WITH 4' CHAIN LINK GATED FENCE WITH PROXY SLATS.
- NO DIESEL OR NATURAL GAS GENERATORS ON SITE. OWNER TO PROVIDE FUEL CELLS TO BE INSTALLED IN BOTH THE ELECTROLYZER AND COMPRESSOR/RELIQUEFACTION BUILDINGS.
- PROCESS WATER AND SEASONAL COOLING TOWER BLOW DOWN WATER TO BE EVAPORATED, THEN CONDENSED. THE RESULTING WATER TO BE COLLECTED AND REUSED IN THE PROCESS. CONCENTRATED SOLIDS TO BE REDUCED TO A SOLID WASTE OR SLUDGE. COLLECTED IN A HOPPERBIN SYSTEM AND DISPOSED OF PER LOCAL REQUIREMENTS AS SOLID WASTE, WEEKLY.



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



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

PLUG POWER

OWNER
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968 ALBANY SHAKER ROAD
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SCHEID ARCHITECTURAL

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INVICTUS
Civil Engineering, P.C.

STATE OF NEW YORK
Professional Engineer

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SHEET TITLE
SITE LAYOUT & UTILITY PLAN

PROJECT NUMBER
2021-001

PLOT DATE
7/16/2021 9:14:45 AM

SHEET
C2

20210



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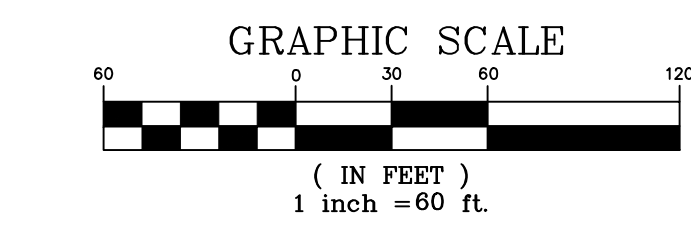
GRADING & DRAINAGE PLAN

LEGEND (INTS)

EXISTING	PROPOSED	DESCRIPTION
---	---	GAS
---	---	UNDERGROUND ELECTRICABLE
---	---	OVERHEAD ELECTROLE
---	---	WATER
---	---	SANITARY SEWER (DOMESTIC)
---	---	SANITARY SEWER (PROCESS WASTE)
---	---	STORM SEWER
---	---	CONTOUR
---	---	SPOT ELEVATIONS
---	---	FENCE
---	---	PROPERTY/BROW LINE
---	---	ESSENTIAL
---	---	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
---	---	BENCH MARK

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

* STONE SPILLWAYS TO BE 12" THICK (MIN.) NYS DOT LIGHT STONE FILLED OVER GEOTEXTILE FABRIC (MIRAFI 1160N OR APPROVED EQUAL)



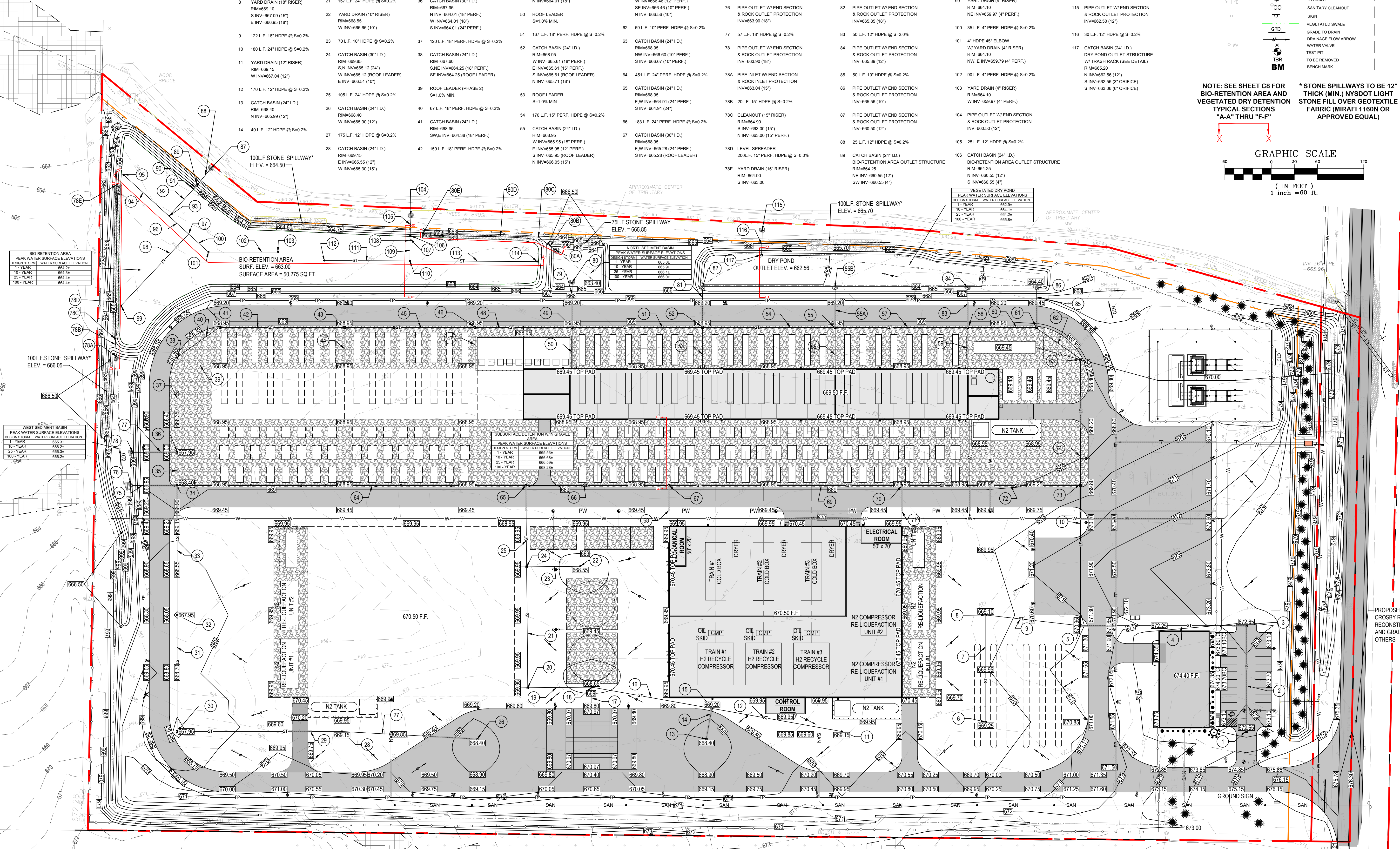
STORM STRUCTURE TABLE

1 CATCH BASIN (24" I.D.) RIM=672.05 N INV=670.15 (12")	15 CATCH BASIN (24" I.D.) RIM=669.20 E INV=666.70 (12") S INV=665.91 (12") W INV=665.91 (18")	29 214 L.F. 15" 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)	55A 50L.F. 15" HDPE @ S=2.0%	68 ROOF LEADER S=1.0% MIN.	79 57 L.F. 18" HDPE @ S=0.2%	90 5 L.F. 4" HDPE @ S=0.2%	107 5 L.F. 4" HDPE @ S=0.2%	
2 135 L.F. 12" HDPE @ S=0.2%	16 157 L.F. 18" HDPE @ S=0.2%	31 150 L.F. 18" HDPE @ S=0.2%	44 ROOF LEADER (PHASE 2) S=1.0% MIN.	56 ROOF LEADER S=1.0% MIN.	70 CATCH BASIN (30" I.D.) RIM=668.95 E.W INV=665.88 (24" PERF.) S INV=665.88 (ROOF LEADER)	80A PIPE INLET W/ END SECTION & ROCK INLET PROTECTION RIM=663.05	91 BIO-RETENTION AREA ELBOW ASSEMBLY N (TOP) INV=660.56 (4") S (BOTTOM) INV=659.56 (4" PERF.)	108 BIO-RETENTION AREA ELBOW ASSEMBLY N (TOP) INV=660.56 (4") S (BOTTOM) INV=659.56 (4" PERF.)	
3 CATCH BASIN (24" I.D.) RIM=672.05 S INV=669.88 (12") W INV=668.88 (12")	17 27 L.F. 6" HDPE @ S=0.2% (MIN.) (DRAIN FROM SCALES)	32 CATCH BASIN (30" I.D.) RIM=667.95 S INV=664.38 (18") N INV=664.38 (24")	45 167 L.F. 18" PERF. HDPE @ S=0.2%	57 170 L.F. 12" PERF. HDPE @ S=0.2%	58 CATCH BASIN (24" I.D.) RIM=668.95 W.E INV=665.03 (18" PERF.) S INV=665.03 (ROOF LEADER)	71 ROOF LEADER S=1.0% MIN.	80B 25L.F. 12" HDPE @ S=0.2%	92 45 L.F. 4" PERF. HDPE @ S=0.2%	109 25 L.F. 4" PERF. HDPE @ S=0.2%
4 213 L.F. 12" HDPE @ S=0.2%	18 CATCH BASIN (24" I.D.) RIM=668.05 W.E INV=665.60 (18") S INV=665.60 (8")	33 166 L.F. 24" HDPE @ S=0.2%	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.	59 ROOF LEADER S=1.0% MIN.	72 230 L.F. 24" PERF. HDPE @ S=0.2%	80C 12" 45" BEND W/ CLEANOUT RIM=664.55 SE INV=663.00 (12") W INV=663.00 (12" PERF.)	94 80 L.F. 4" PERF. HDPE @ S=0.2%	110 4"X4"X4" HDPE TEE NW, NE, SE INV=659.65
5 CATCH BASIN (30" I.D.) RIM=670.95 E INV=668.45 (12") W INV=668.71 (18") N INV=666.71 (24")	19 83 L.F. 18" HDPE @ S=0.2%	34 CATCH BASIN (30" I.D.) RIM=669.80 W INV=664.05 (24") N.E INV=664.01 (24" PERF.) W INV=664.01 (18")	47 ROOF LEADER (PHASE 2) S=1.0% MIN.	60 87 L.F. 12" PERF. HDPE @ S=0.2%	60 87 L.F. 12" PERF. HDPE @ S=0.2%	73 CATCH BASIN (30" I.D.) RIM=669.80 W INV=664.38 (24" PERF.) S INV=664.38 (24")	80D 150L.F. 12" HDPE @ S=0.0%	95 YARD DRAIN (4" RISER) RIM=664.10	111 111 L.F. 4" PERF. HDPE @ S=0.2%
6 YARD DRAIN (15" RISER) RIM=669.25 N INV=667.37 (15")	20 CATCH BASIN (30" I.D.) RIM=669.85 E INV=665.43 (18") W INV=665.43 (24")	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 W INV=666.28 (12" PERF.) S INV=666.28 (ROOF LEADER)	61 CATCH BASIN (24" I.D.) RIM=668.95 W INV=666.28 (12" PERF.) S INV=666.28 (ROOF LEADER)	74 161 L.F. 10" PERF. HDPE @ S=0.2%	80E YARD DRAIN (12" RISER) RIM=664.55	96 35 L.F. 4" PERF. HDPE @ S=0.2%	112 YARD DRAIN (4" RISER) RIM=664.10
7 138 L.F. 15" HDPE @ S=0.2%	21 157 L.F. 24" HDPE @ S=0.2%	36 CATCH BASIN (30" I.D.) RIM=667.95 W INV=664.01 (18" PERF.) S INV=664.01 (18")	49 CATCH BASIN (24" I.D.) RIM=668.95 W.E INV=665.28 (18" PERF.) S INV=665.28 (ROOF LEADER)	62 69 L.F. 10" PERF. HDPE @ S=0.2%	62 69 L.F. 10" PERF. HDPE @ S=0.2%	75 57 L.F. 18" HDPE @ S=0.2%	81 50 L.F. 18" HDPE @ S=0.2%	97 4"X4"X4" HDPE TEE NW, SE, SW INV=659.72 (4" PERF.)	113 160 L.F. 4" PERF. HDPE @ S=0.2%
8 YARD DRAIN (18" RISER) RIM=669.10 S INV=667.09 (15") E INV=666.95 (18")	22 YARD DRAIN (10" RISER) RIM=668.55 W INV=666.65 (10")	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 W INV=666.46 (12" PERF.) S INV=666.46 (10" PERF.)	63 CATCH BASIN (24" I.D.) RIM=668.95 W INV=666.46 (12" PERF.) S INV=666.46 (10" PERF.)	76 78 L.F. 18" HDPE @ S=0.2%	82 PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=663.90 (18")	98 125 L.F. 4" PERF. HDPE @ S=0.2%	114 YARD DRAIN (4" RISER) RIM=664.10
9 122 L.F. 18" HDPE @ S=0.2%	23 70 L.F. 10" HDPE @ S=0.2%	38 CATCH BASIN (24" I.D.) RIM=667.60 S.NE INV=664.25 (18" PERF.) SE 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%	64 451 L.F. 24" PERF. HDPE @ S=0.2%	77 57 L.F. 18" HDPE @ S=0.2%	83 50 L.F. 10" HDPE @ S=0.2%	100 35 L.F. 4" PERF. HDPE @ S=0.2%	115 PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=662.50 (12")
10 180 L.F. 24" HDPE @ S=0.2%	24 CATCH BASIN (30" I.D.) RIM=669.85 S.NE INV=665.12 (24") W INV=665.12 (ROOF LEADER)	39 ROOF LEADER (PHASE 2) S=1.0% MIN.	52 CATCH BASIN (24" I.D.) RIM=668.95 W INV=665.36 (15" PERF.) E INV=665.36 (12" PERF.) S INV=665.36 (18")	65 CATCH BASIN (24" I.D.) RIM=668.95 E.W INV=664.91 (24" PERF.) S INV=664.91 (24")	65 CATCH BASIN (24" I.D.) RIM=668.95 E.W INV=664.91 (24" PERF.) S INV=664.91 (24")	78A PIPE INLET W/ END SECTION & ROCK INLET PROTECTION INV=663.04 (15")	84 PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=663.90 (12")	102 90 L.F. 4" PERF. HDPE @ S=0.2%	116 30 L.F. 12" HDPE @ S=0.2%
11 YARD DRAIN (12" RISER) RIM=669.15 W INV=667.04 (12")	25 105 L.F. 24" HDPE @ S=0.2%	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%	66 183 L.F. 24" PERF. HDPE @ S=0.2%	78B 20L.F. 15" HDPE @ S=0.2%	85 50 L.F. 10" HDPE @ S=0.2%	104 PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=660.50 (12")	117 CATCH BASIN (24" I.D.) RIM=664.10 S INV=662.56 (12" ORIFICE) S INV=663.06 (8" ORIFICE)
12 170 L.F. 12" HDPE @ S=0.2%	26 CATCH BASIN (24" I.D.) RIM=668.40 N INV=665.90 (12")	41 CATCH BASIN (24" I.D.) RIM=668.95 S.W.E INV=664.38 (18" PERF.)	54 170 L.F. 15" PERF. HDPE @ S=0.2%	67 CATCH BASIN (30" I.D.) RIM=669.80 E.W INV=665.28 (24" PERF.) S INV=665.28 (ROOF LEADER)	67 CATCH BASIN (30" I.D.) RIM=669.80 E.W INV=665.28 (24" PERF.) S INV=665.28 (ROOF LEADER)	78C CLEANOUT (15" RISER) RIM=664.90 S INV=663.00 (15") N INV=663.00 (15" PERF.)	86 PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=665.56 (10")	106 CATCH BASIN (24" I.D.) RIM=664.10 N INV=660.55 (12") S INV=660.55 (4")	
13 100 F. STONE SPILLWAY* ELEV. = 664.50	27 175 L.F. 12" HDPE @ S=0.2%	42 159 L.F. 18" PERF. HDPE @ S=0.2%	55 CATCH BASIN (24" I.D.) RIM=668.95 W INV=665.36 (15" PERF.) E INV=665.36 (12" PERF.) S INV=665.36 (18")	78E YARD DRAIN (15" RISER) RIM=664.90 S INV=663.00	78E YARD DRAIN (15" RISER) RIM=664.90 S INV=663.00	78D LEVEL SPREADER 200L.F. 15" PERF. HDPE @ S=0.0%	87 PIPE OUTLET W/ END SECTION & ROCK OUTLET PROTECTION INV=660.50 (12")	105 25 L.F. 12" HDPE @ S=0.2%	
14 40 L.F. 12" HDPE @ S=0.2%	28 CATCH BASIN (24" I.D.) RIM=669.15 E INV=665.55 (12") W INV=665.30 (15")						88 25 L.F. 12" HDPE @ S=0.2%	108 CATCH BASIN (24" I.D.) RIM=664.10 N INV=660.55 (12") S INV=660.55 (4")	

BM SURVEY CONTROL
VERTICAL DATUM = NAVD83
HORIZONTAL DATUM = NAD83

Point	Northing	Easting	Elevation	Description
5000	1125631.9878	1186302.6694	672.30	MAGNAIL
5001	1123663.9105	1186266.7062	677.81	MAGNAIL

MAP REFERENCES:
PROPOSED WYDER PARCEL, A PORTION OF SBL 10-142, 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. 3046-3B.
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. 3046-3B.
STAMP BASEMAP 2019 PROVIDED BY CLARK PATTERSON LEE ARCHITECTURE ENGINEERING PLANNING



BIO-RETENTION AREA

PEAK WATER SURFACE ELEVATIONS
DESIGN STORM WATER SURFACE ELEVATION
1-YEAR
10-YEAR
25-YEAR
100-YEAR

WEST SEDIMENT BASIN

PEAK WATER SURFACE ELEVATIONS
DESIGN STORM WATER SURFACE ELEVATION
1-YEAR
10-YEAR
25-YEAR
100-YEAR

SUBSURFACE DETENTION WITH GRAVEL MEDIA

PEAK WATER SURFACE ELEVATIONS
DESIGN STORM WATER SURFACE ELEVATION
1-YEAR
10-YEAR
25-YEAR
100-YEAR

VEGETATED DRY POND

PEAK WATER SURFACE ELEVATIONS
DESIGN STORM WATER SURFACE ELEVATION
1-YEAR
10-YEAR
25-YEAR
100-YEAR

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



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ISSUE DATE	DESCRIPTION
05/26/2021	SITE PLAN SUBMISSION
07/16/2021	SITE PLAN SUBMISSION REVISED

FOR REFERENCE
ONLY
NOT FOR
CONSTRUCTION



SEAL/SIGNATURE



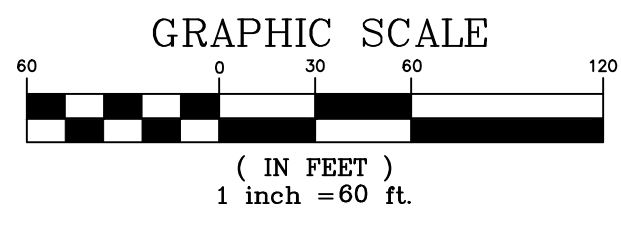
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EROSION & SEDIMENT CONTROL PLAN

PROJECT NUMBER
2021-001
PLOT DATE
7/16/2021 9:19:14 AM
SHEET

C4

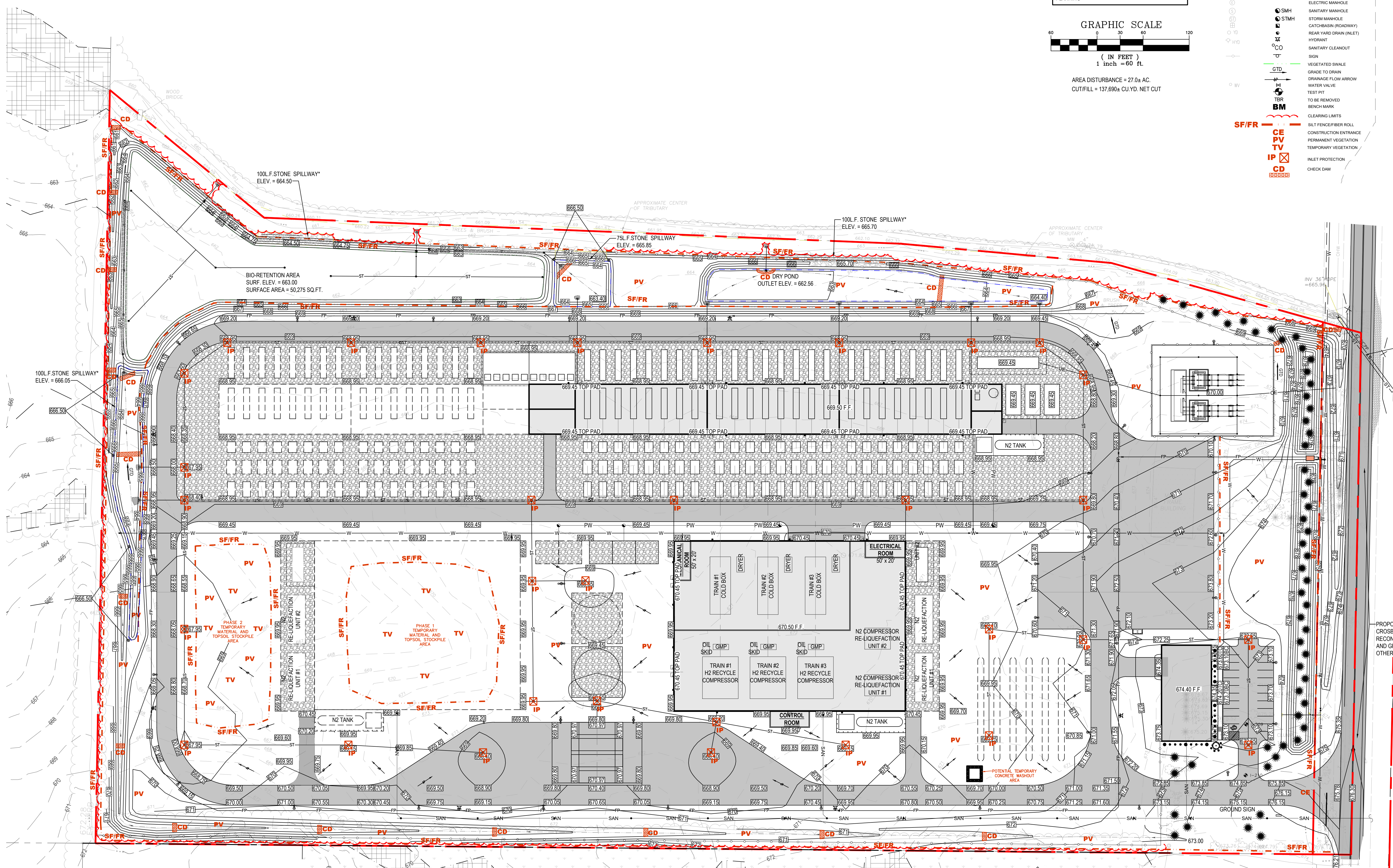
MAP REFERENCES:
PROPOSED WYDER PARCEL A, A PORTION OF SBL 16-1-42, BOUNDARY SURVEY PART OF LOT 14, TWP 13, RGE 4 OF THE TONAWANDA RESERVATION, TOWN OF ALABAMA, COUNTY OF GENESSEE AND STATE OF NEW YORK, PREPARED BY FRANDINA ENGINEERING AND LAND SURVEYING, P.C. DATED FEBRUARY 16, 2021, JOB No. 3646-3B.
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.
STAMP BASEMAP 2019 PROVIDED BY CLARK PATTERSON LEE ARCHITECTURE ENGINEERING PLANNING



AREA DISTURBANCE = 27.0± AC.
CUT/FILL = 137,690± CU.YD. NET CUT

LEGEND (NTS)

EXISTING	PROPOSED	DESCRIPTION
---	---	GAS
---	---	UNDERGROUND ELECTRIC CABLE
---	---	OVERHEAD ELECTRIC CABLE
---	---	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 LIMITS
---	---	SILT FENCE/FIBER ROLL
---	---	CONSTRUCTION ENTRANCE
---	---	PERMANENT VEGETATION
---	---	TEMPORARY VEGETATION
---	---	INLET PROTECTION
---	---	CHECK DAM



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

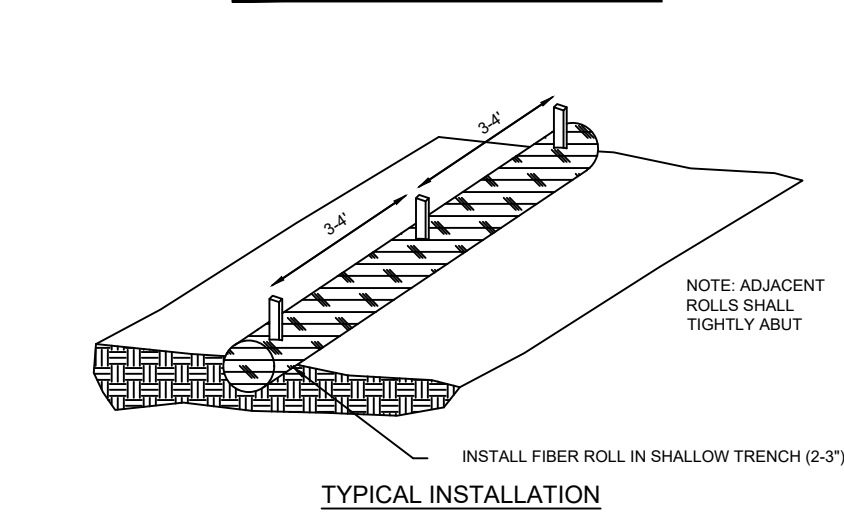


EROSION CONTROL NOTES

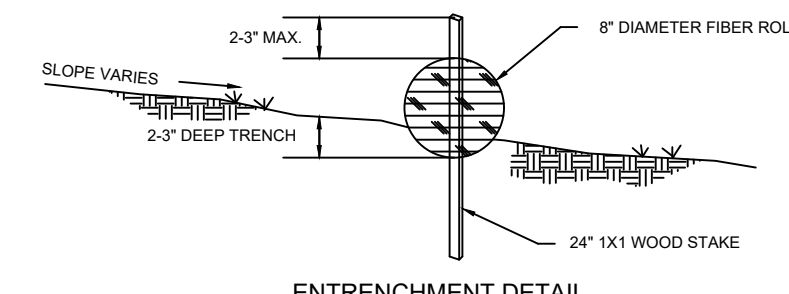
1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE 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 PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, 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	0.60
CREeping RED FESCUE	0.50
PERENNIAL RYEGRASS	0.20

SEED MIXTURE FOR PERMANENT VEGETATION



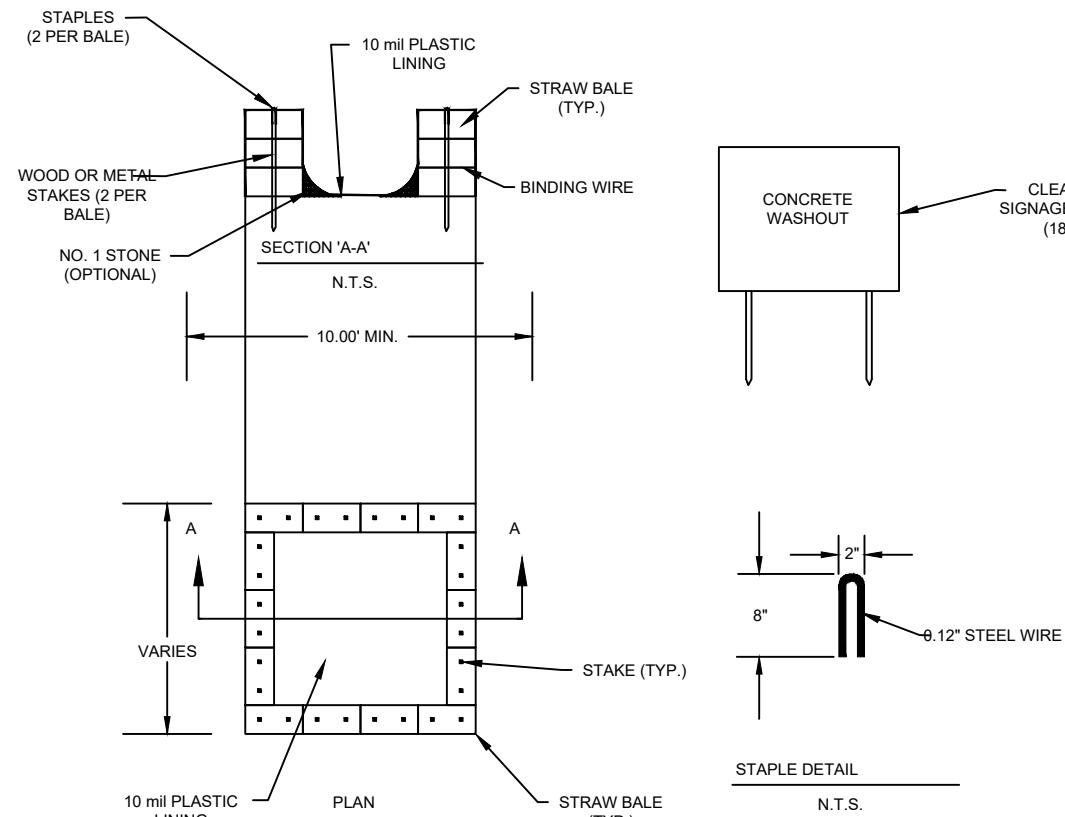
TYPICAL INSTALLATION



ENTRENCHMENT DETAIL

TYPICAL FIBER ROLL INSTALLATION

N.T.S.

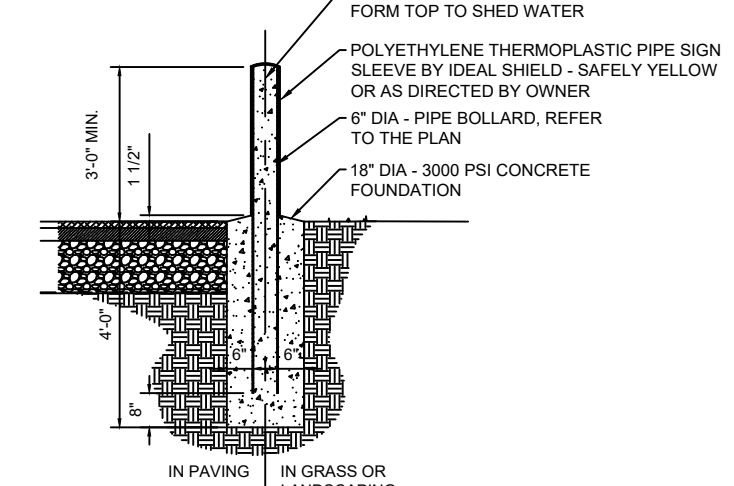


- NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY WASHOUT FACILITY.
 3. THE CONCRETE WASHOUT STRUCTURE SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURE'S CAPACITY.
 4. THE PLASTIC LINING SHALL BE FREE OF TEARS OR HOLES THAT WOULD ALLOW WASHWATER TO ESCAPE.

TYPICAL ABOVE GRADE CONCRETE WASHOUT INSTALLATION DETAIL

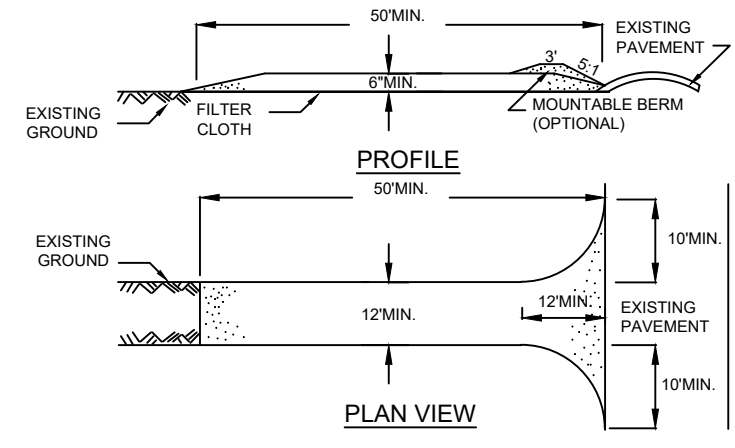
TYPICAL ABOVE GRADE CONCRETE WASHOUT INSTALLATION DETAIL

N.T.S.



TYPICAL BOLLARD SECTION

N.T.S.

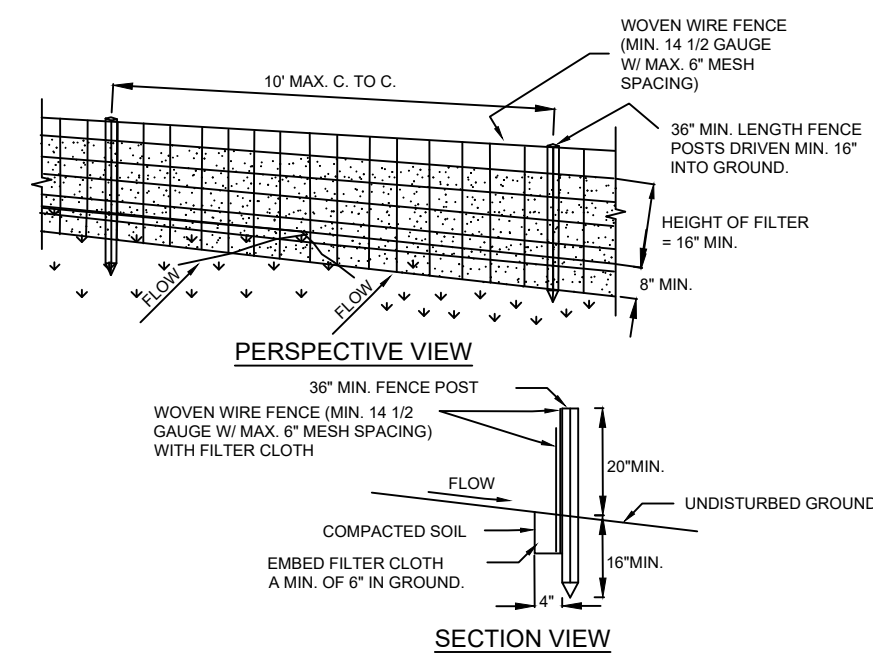


CONSTRUCTION SPECIFICATIONS

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 IF 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 SHALL BE PROVIDED.
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.

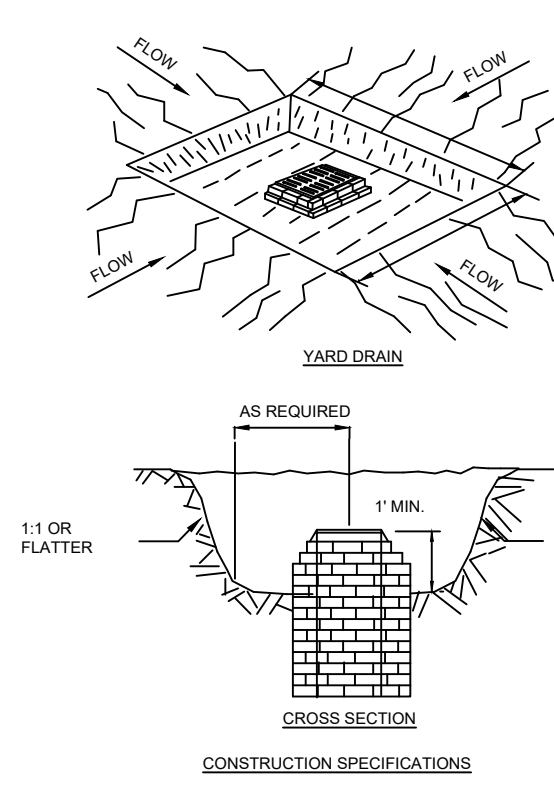


CONSTRUCTION SPECIFICATIONS

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 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 140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOTAB, ENVIROFIBER, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

N.T.S.

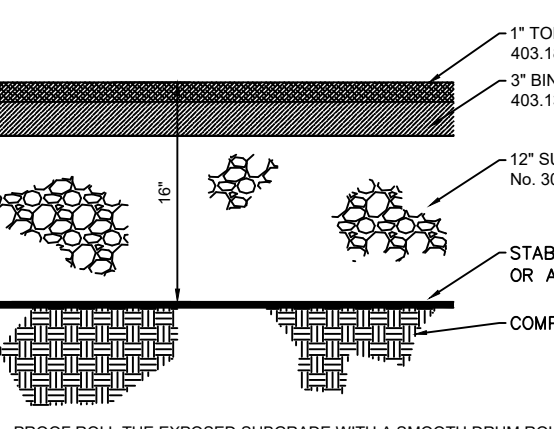


CONSTRUCTION SPECIFICATIONS

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 CONTRIBUTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
6. ALL CUT SLOPES SHALL BE 1:1 OR FLATTER. MAXIMUM DRAINAGE AREA: 3 ACRES.

EXCAVATED INLET PROTECTION

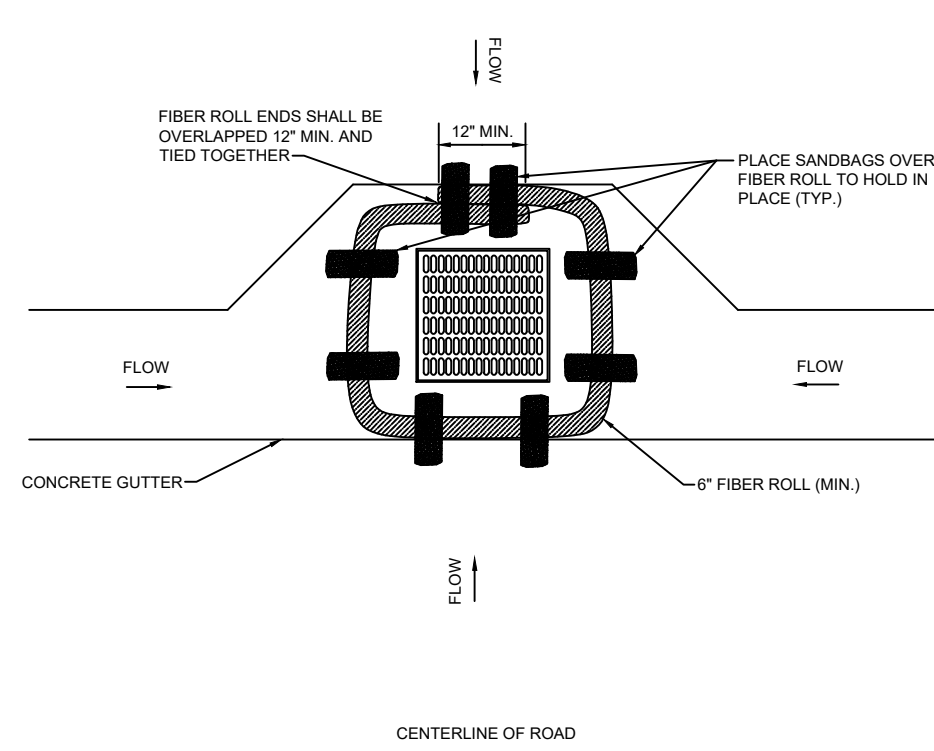
N.T.S.



1. TOP COURSE, NYSDOT ITEM No. 403.15, TYPE 7
 2. BINDER COURSE, NYSDOT ITEM No. 403.13, TYPE 3
 3. SUBBASE COURSE, NYSDOT ITEM No. 304.03, TYPE 2 - 6" LIFTS
 4. STABILIZATION FABRIC (MIRAFI HP370 OR APPROVED EQUAL)
 5. COMPACTED NATIVE SUBGRADE
- PROOF ROLL THE EXPOSED SUBGRADE WITH A SMOOTH DRUM ROLLER HAVING AN EFFECTIVE WEIGHT OF AT LEAST 600 LBS/LI. ANY AREAS EXHIBITING WEAVING, YIELDING, RUTTING, OR BOLLING SHOULD BE REWORKED BY OVER EXCAVATING AND REPLACEMENT WITH STRUCTURAL FILL COMPACTED TO 95% MP.
- COMPACT FOUNDATION COURSE WITH A MINIMUM OF 5 PASSES OF A SMOOTH DRUM ROLLER HAVING AN EFFECTIVE WEIGHT OF AT LEAST 600 LBS/LI. 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.

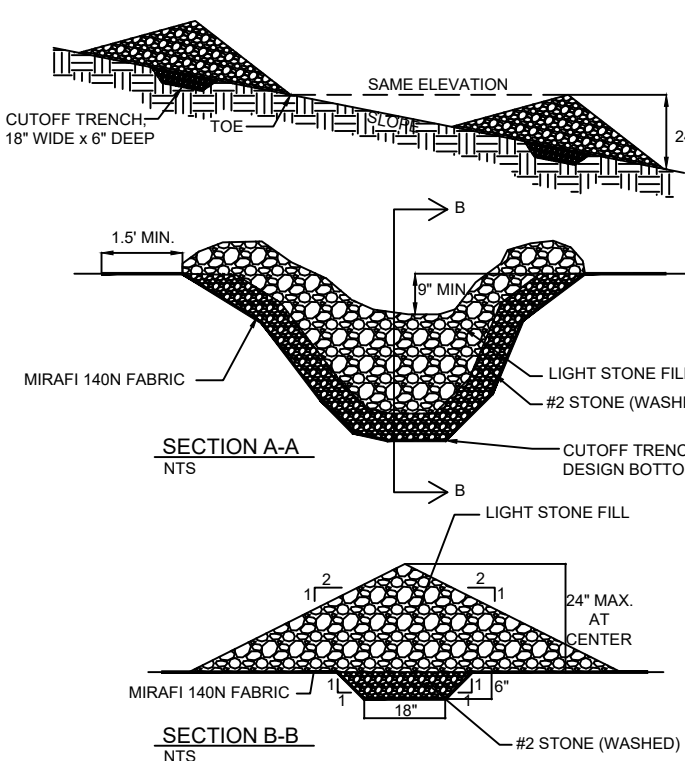
HEAVY DUTY PAVEMENT*

N.T.S.



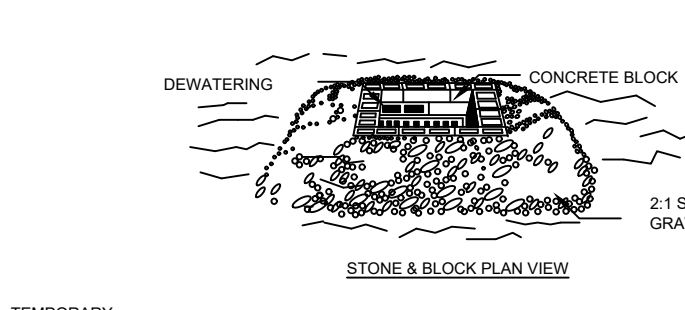
FIBER ROLL CURB INLET PROTECTION

N.T.S.



CHECK DAM DETAIL

N.T.S.

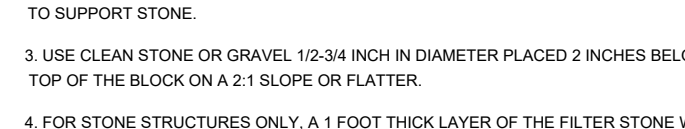


STONE AND BLOCK INLET PROTECTION

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.



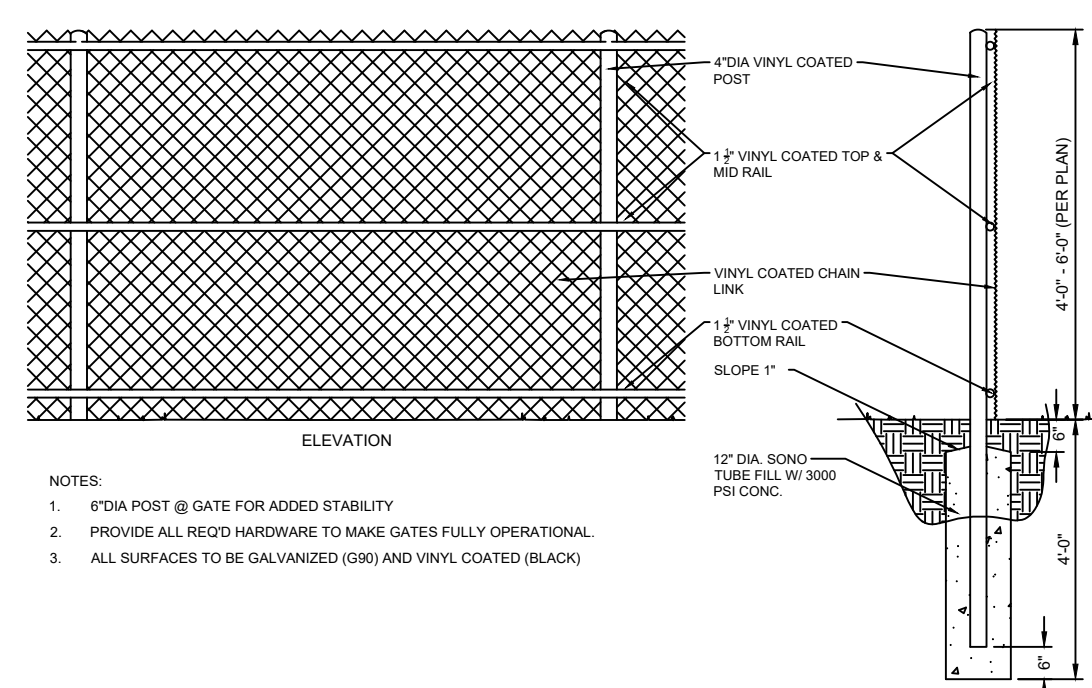
FILTER FABRIC DROP INLET PROTECTION

N.T.S.



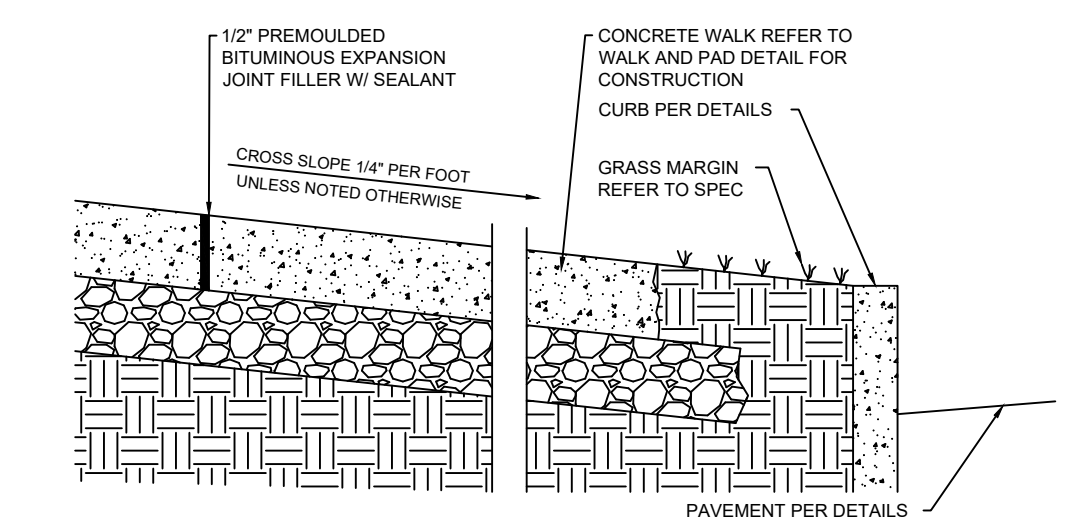
PAD/WALK - JOINT DETAILS

N.T.S.



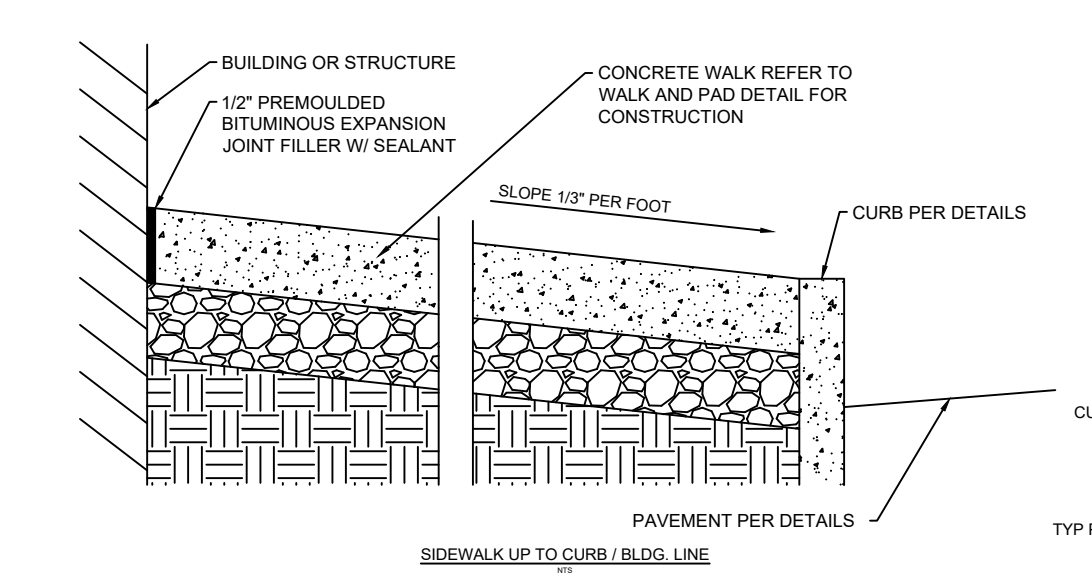
TYPICAL CHAIN LINK FENCE DETAIL

N.T.S.



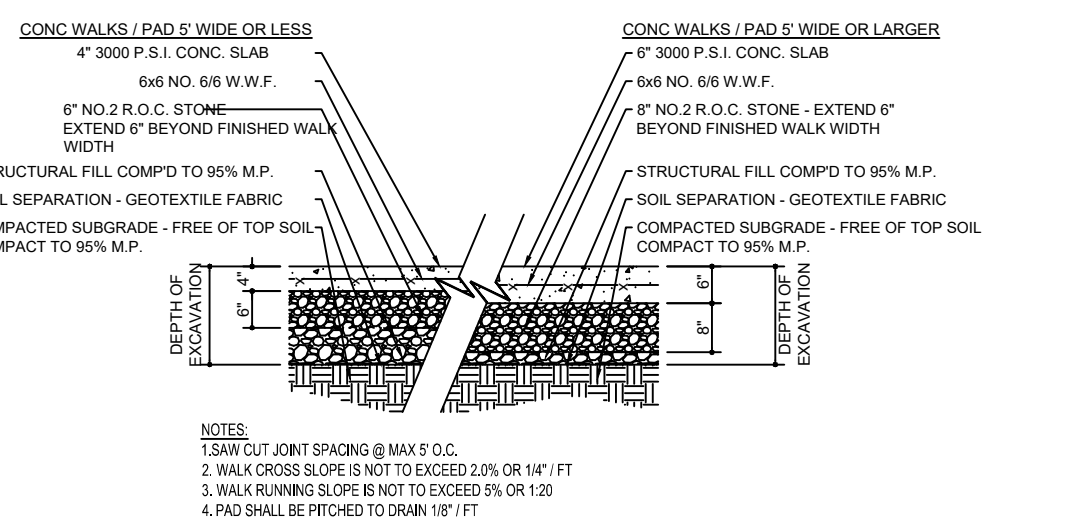
TYPICAL HC PARKING STALL AND SIGNAGE

N.T.S.



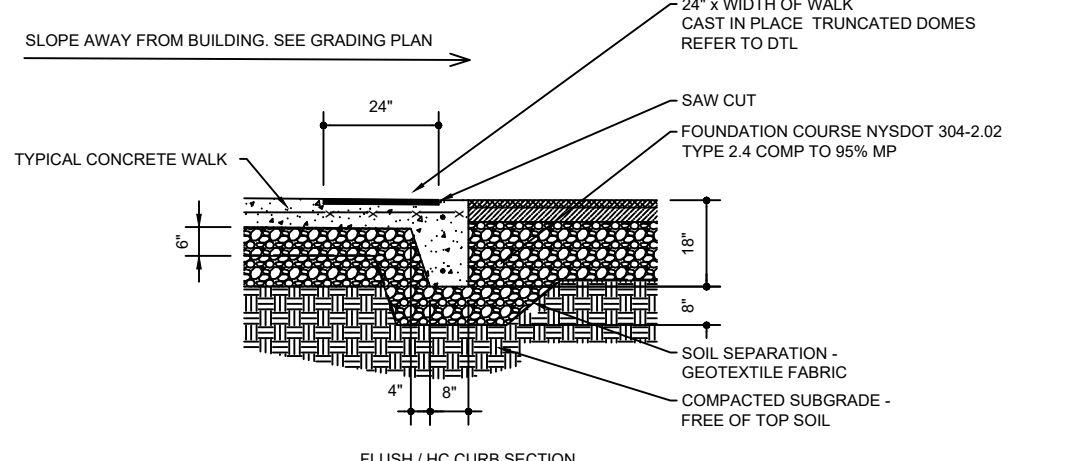
INLINE CURB RAMP DETAIL

N.T.S.



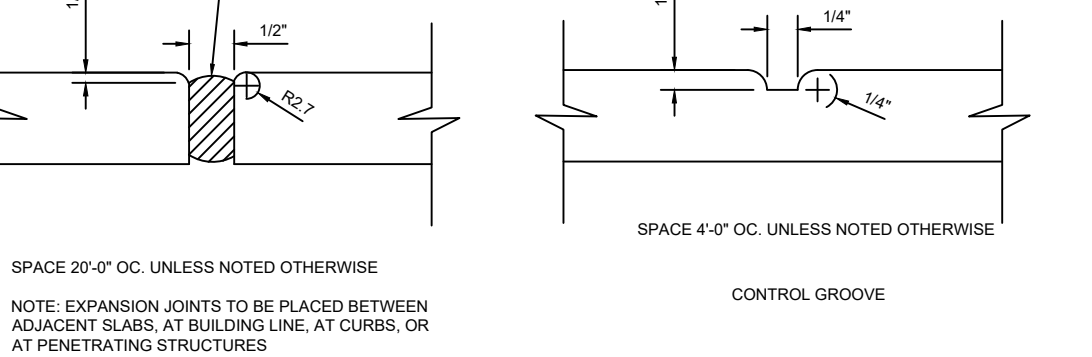
CONCRETE WALKS & PADS TYP. SECTION

N.T.S.



CONCRETE CURB DETAIL

N.T.S.



HEAVY DUTY PAVEMENT*

N.T.S.

ISSUE DATE	DESCRIPTION
05/26/2021	SITE PLAN SUBMISSION
07/16/2021	SITE PLAN SUBMISSION REVISED

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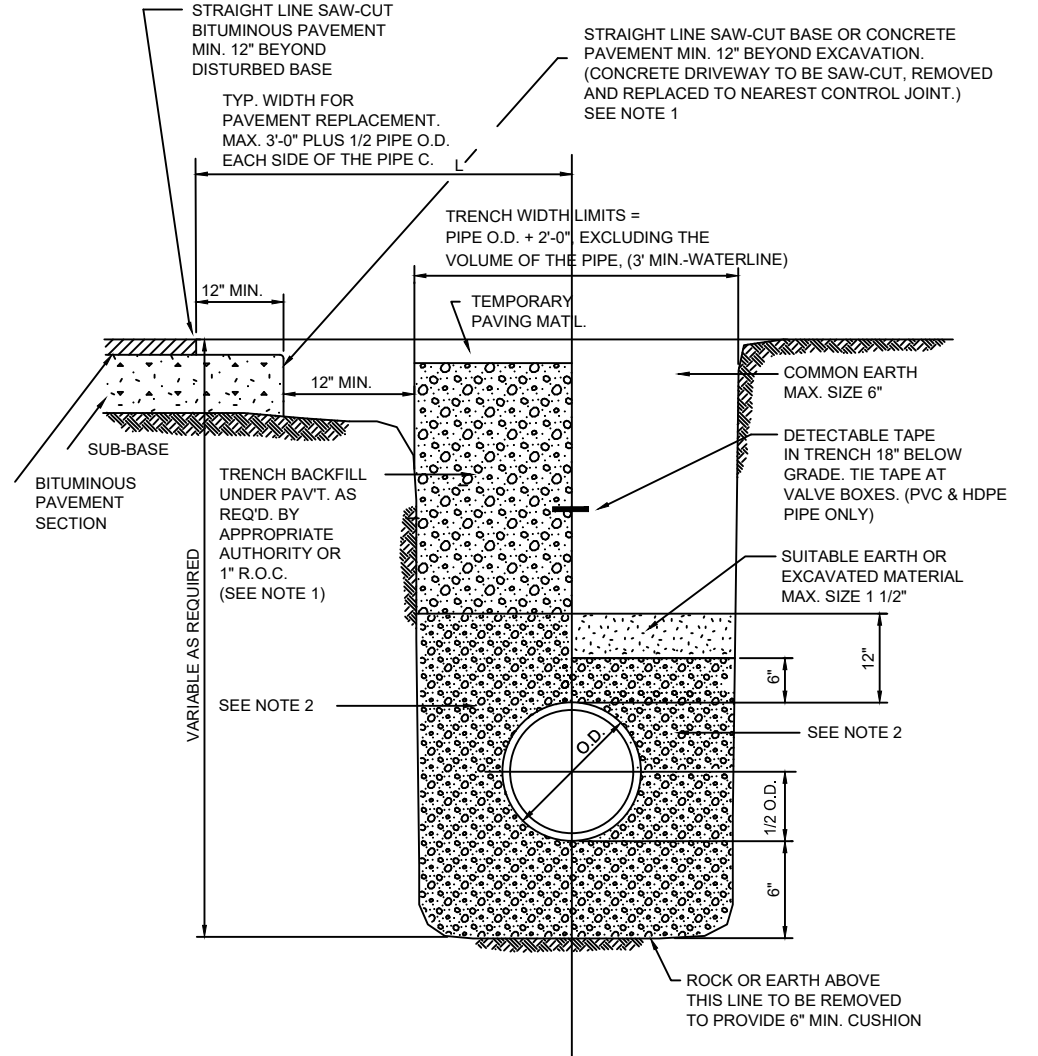
DETAILS - SITE, PAVING AND EROSION & SEDIMENT CONTROL

PROJECT NUMBER:
7/16/2021 9:20:13 AM

C5

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 SPIGOT JOINTS, PIPE SHALL CONFORM TO THE LATEST REVISION OF AWWA C-900 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. 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 DUCT 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 ELIGIBLE FOR REMOVAL 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.



NOTE 1

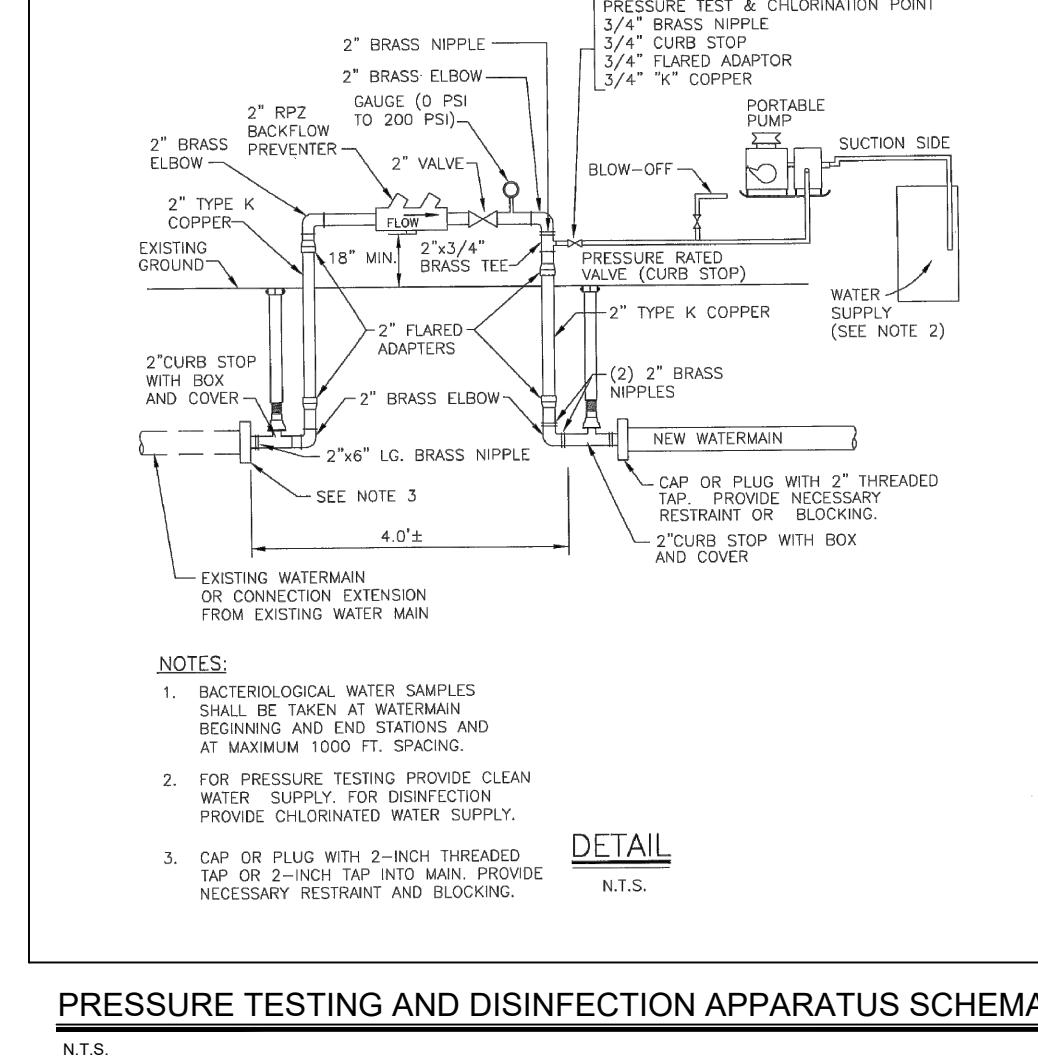
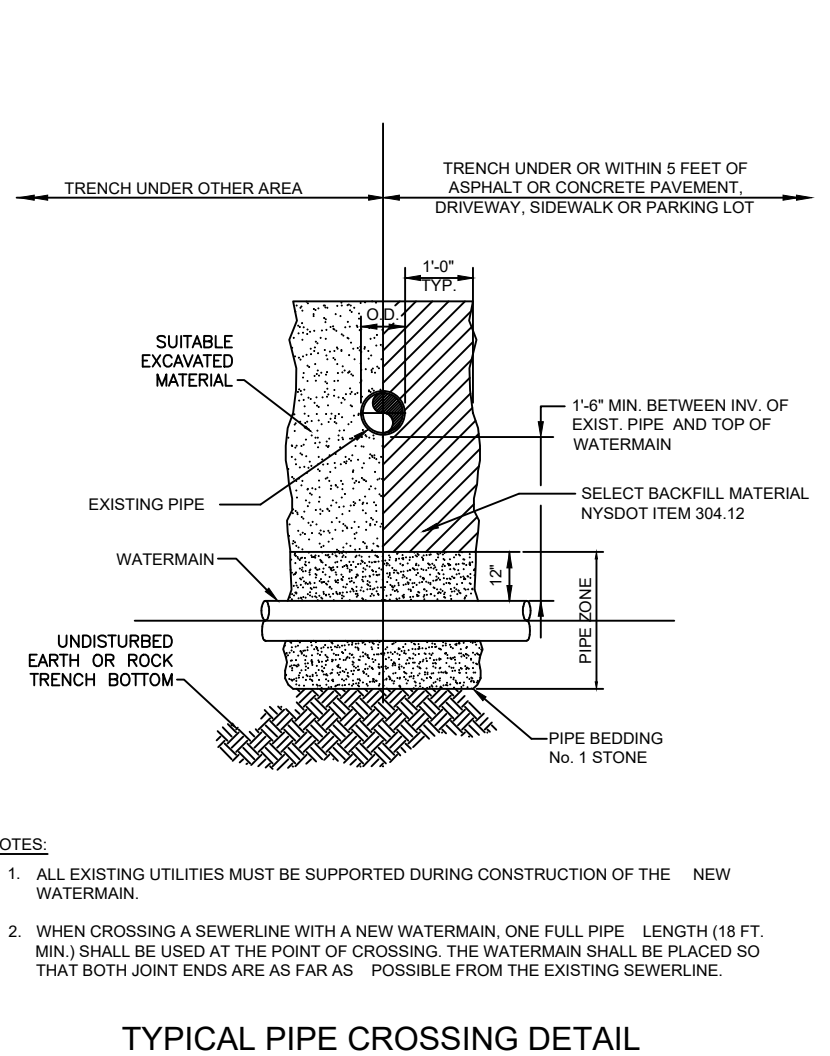
- REPLACE PAVEMENT IN THICKNESS AND KIND, OR AS REQUIRED BY APPROPRIATE AUTHORITY.
- A. MINIMUM STANDARD FOR DRIVEWAY**
 - CONCRETE: 4" 2" R.O.C. SUB BASE COURSE 1" N.Y.S.D.O.T. ITEM 403.18 TYPE 7 TOP
 - ASPHALT: 6" 2" R.O.C. SUB BASE COURSE 1" 2" R.O.C. SUB BASE COURSE 1" 2" R.O.C. SUB BASE COURSE
- B. MINIMUM STANDARD FOR ROAD**
 - CONCRETE: TOP AND BOTTOM 12" 2" R.O.C. SUB BASE COURSE 1" N.Y.S.D.O.T. ITEM 403.18 TYPE 7 TOP
 - ASPHALT: 3" N.Y.S.D.O.T. ITEM 403.12 TYPE 2 BASE 12" 2" R.O.C. SUB BASE COURSE

NOTE 2

- BEDDING:** No. 1 STONE FROM 6" BELOW TO 6" OVER PIPE. CONTINUE BEDDING TO ONE (1) FOOT OVER PIPE WHERE OCCUPATION IS WITHIN PROPOSED OR EXISTING PAVEMENT OR SHOULDER, EXISTING DRIVEWAY, WITHIN 5' OF EDGE OF PROPOSED OR EXISTING PAVEMENT, IN AREAS OF ROCK EXCAVATION OR WHERE EXCAVATED MATERIAL IS NOT ACCEPTABLE TO THE WATERMAIN.

GENERAL NOTES:

- FULL DEPTH 1" R.O.C. STONE MAY BE REQUIRED WHEN ANY PART OF THE TRENCH EXCAVATION IS IN ROAD, DRIVEWAY, SIDEWALK, SHOULDER OR WITHIN FIVE FEET OF THE PAVEMENT EDGE, OR AS DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL SELECT MATERIAL TO BE COMPACTED IN 6" LIFTS, AS PER ASTM 2771.

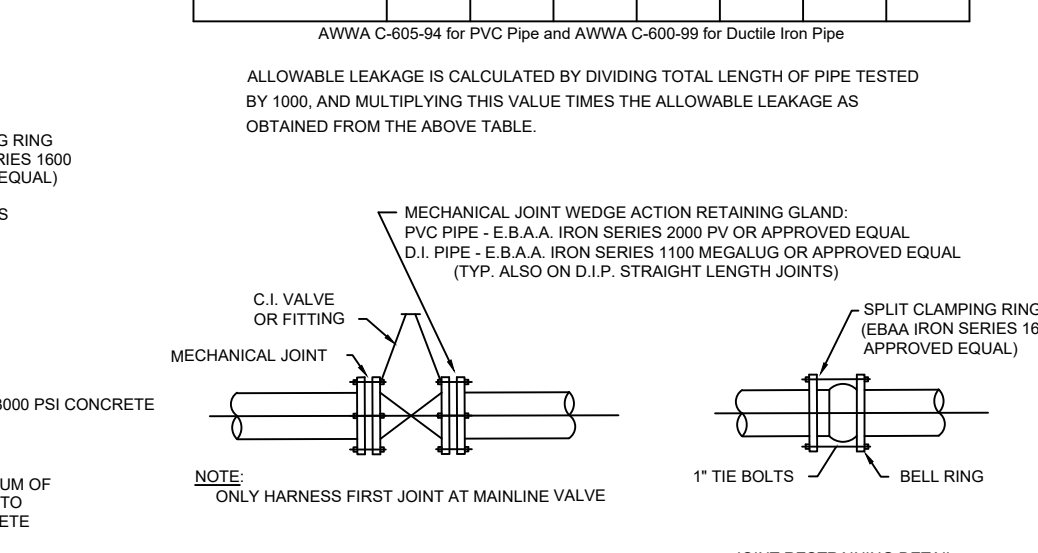


ALLOWABLE LEAKAGE PER 1000' FOR 150 PSI TEST PRESSURE LOSS IN GALLONS PER 2 HOUR TEST

PIPE MATERIAL AND LENGTH	PIPE SIZE (IN)					
	8"	10"	12"	14"	16"	20"
P.V.C. (20')	0.75	0.99	1.25	1.49	1.74	2.29
D.I.P. (50')	0.83	1.11	1.38	1.65	1.94	2.21

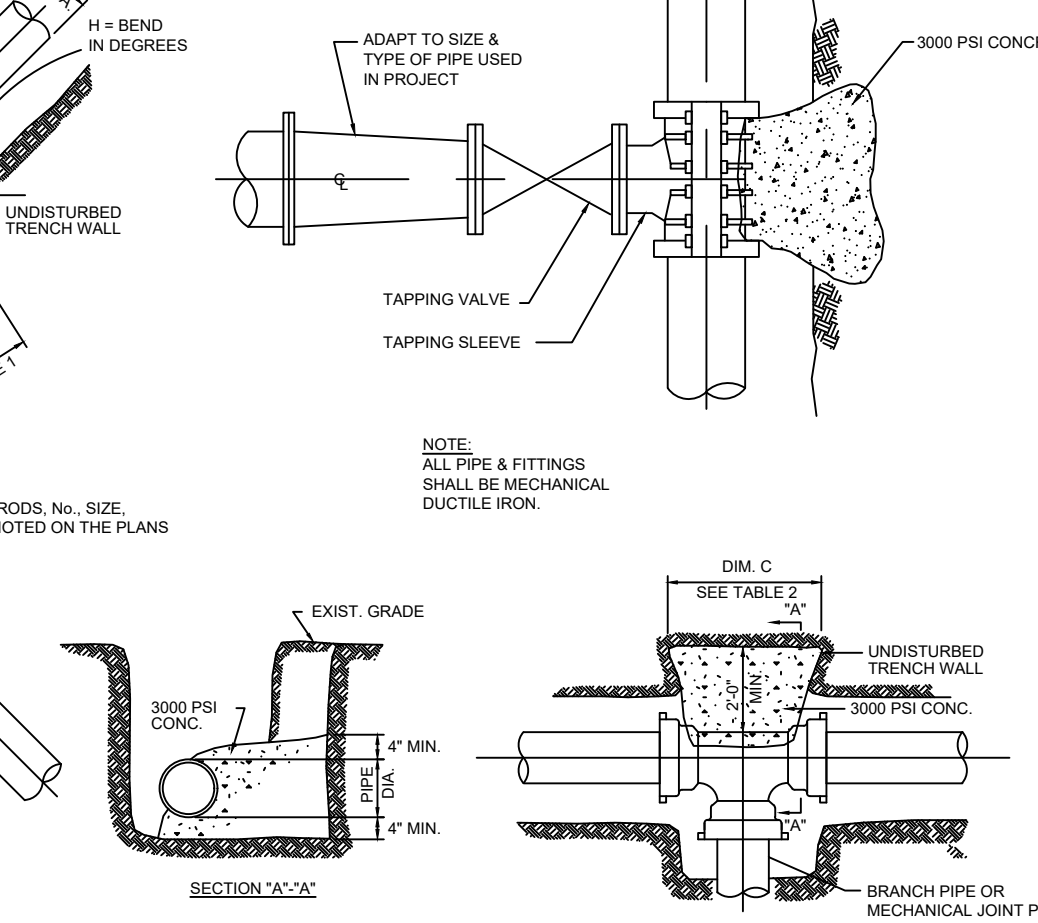
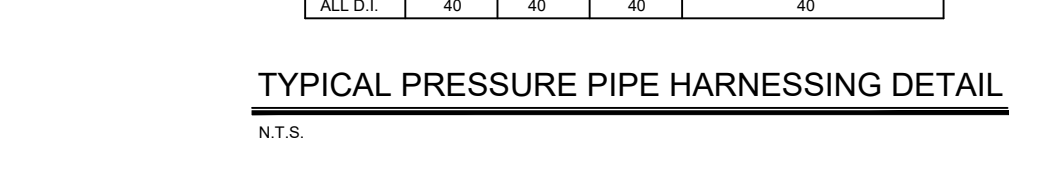
AWWA C-650-94 for PVC Pipe and AWWA C-600-99 for Ductile Iron Pipe

ALLOWABLE LEAKAGE IS CALCULATED BY DIVIDING TOTAL LENGTH OF PIPE TESTED BY 1000, AND MULTIPLYING THIS VALUE TIMES THE ALLOWABLE LEAKAGE AS OBTAINED FROM THE ABOVE TABLE.



LENGTH OF RESTRAINED PIPE REQUIRED IN FEET (EACH SIDE OF FITTING)

PIPE SIZE	BEND			
	11 1/4" BEND	22 1/2" BEND	45" BEND	90" BEND
8" PVC	10	20	40	85
8" PVC	15	30	60	110
12" PVC	20	40	75	155
ALL D.I.	40	40	40	40



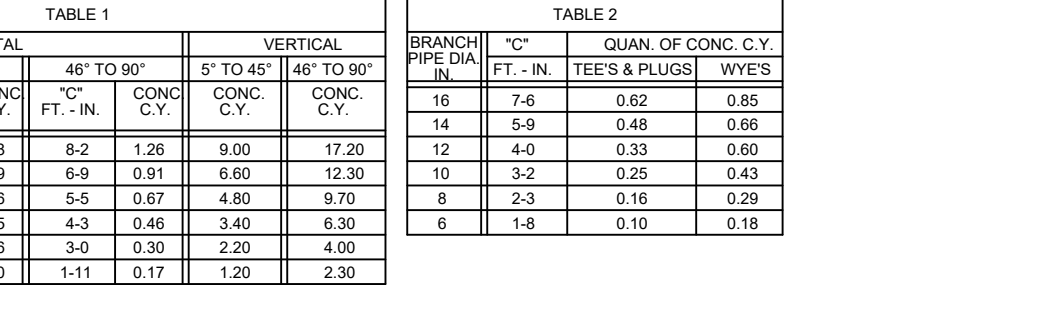
TABLES FOR 2800 P.S.F. SOIL BEARING LOAD AT 150 PSI TEST PRESSURE

TABLE 1

BEND	5" TO 45"		46" TO 90"		91" TO 45"		46" TO 90"	
	CONC. DIA. IN.	CONC. C.V.	CONC. DIA. IN.	CONC. C.V.	CONC. DIA. IN.	CONC. C.V.	CONC. DIA. IN.	CONC. C.V.
16	4.3	0.68	8.2	1.28	9.00	1.20	12	4.0
14	3.7	0.49	6.8	0.91	6.60	1.30	10	3.2
12	2.11	0.36	5.5	0.67	4.80	0.70	8	2.3
10	1.4	0.25	4.3	0.48	3.40	0.30	6	1.8
8	1.7	0.16	3.0	0.30	2.20	0.40		
6	1.0	0.10	1.11	0.17	1.20	0.30		

TABLE 2

BRANCH PIPE DIA.	QUAN. OF CONC. C.V.	
	FT.-IN.	TEES & PLUGS
16	7.6	0.82
14	5.9	0.48
12	4.0	0.33
10	3.2	0.25
8	2.3	0.16
6	1.8	0.10



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

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



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



CONTACT:
111 ELMWOOD AVENUE
BUFFALO, NY 14201
O: 716.684.0059
F: 716.684.6414
SCHEID.A.COM

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DETAILS - WATER

PROJECT NUMBER:
7/16/2021 9:20:52 AM
SHEET:
C6



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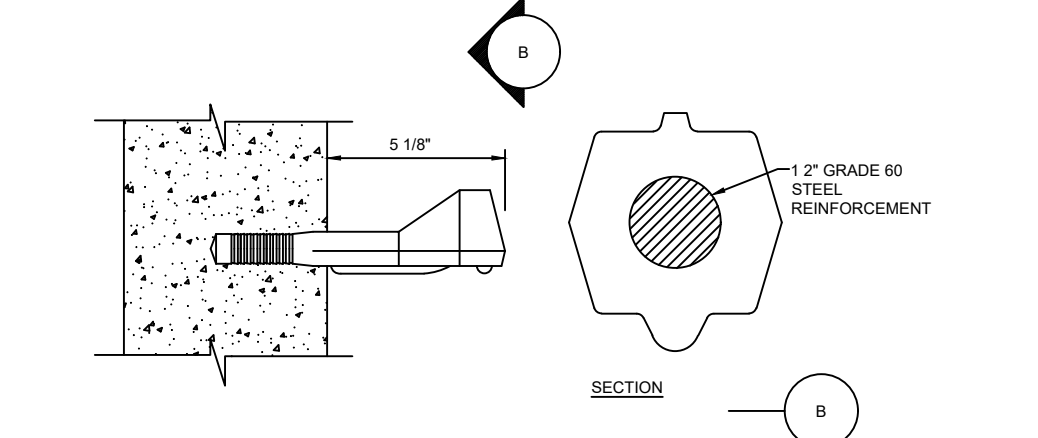
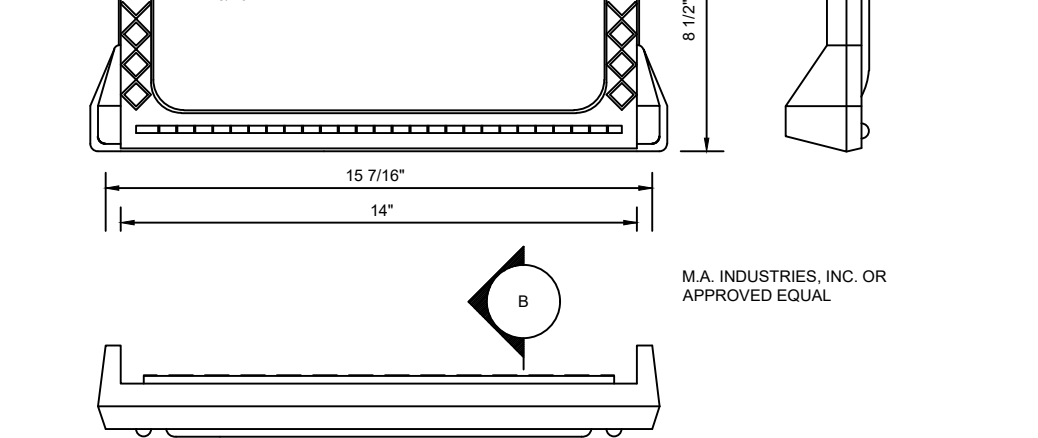
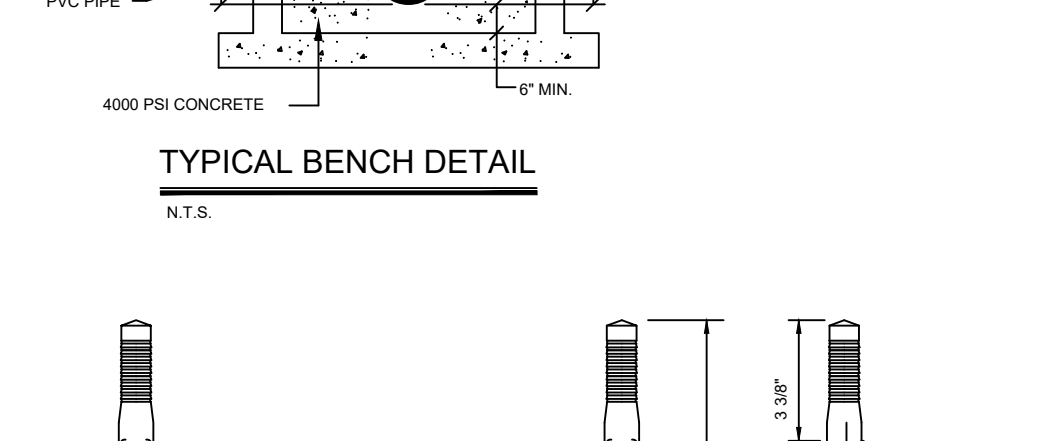
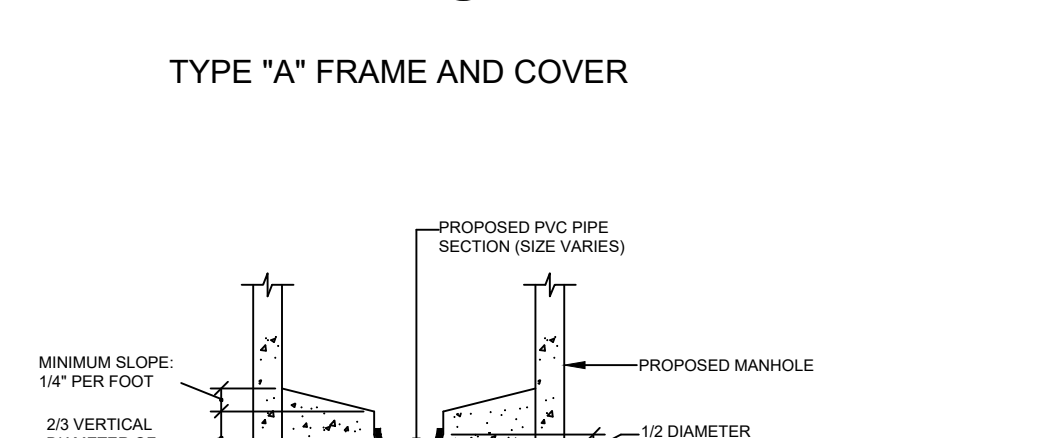
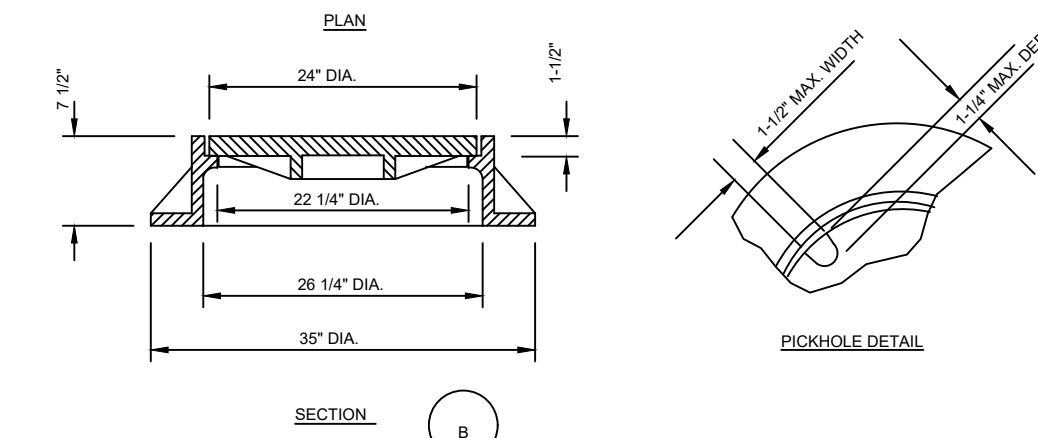
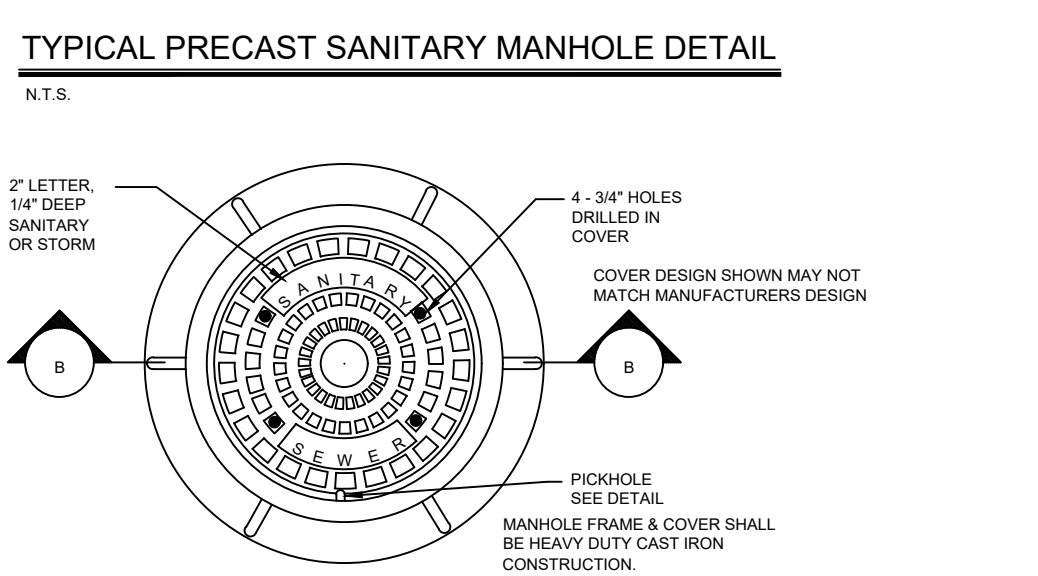
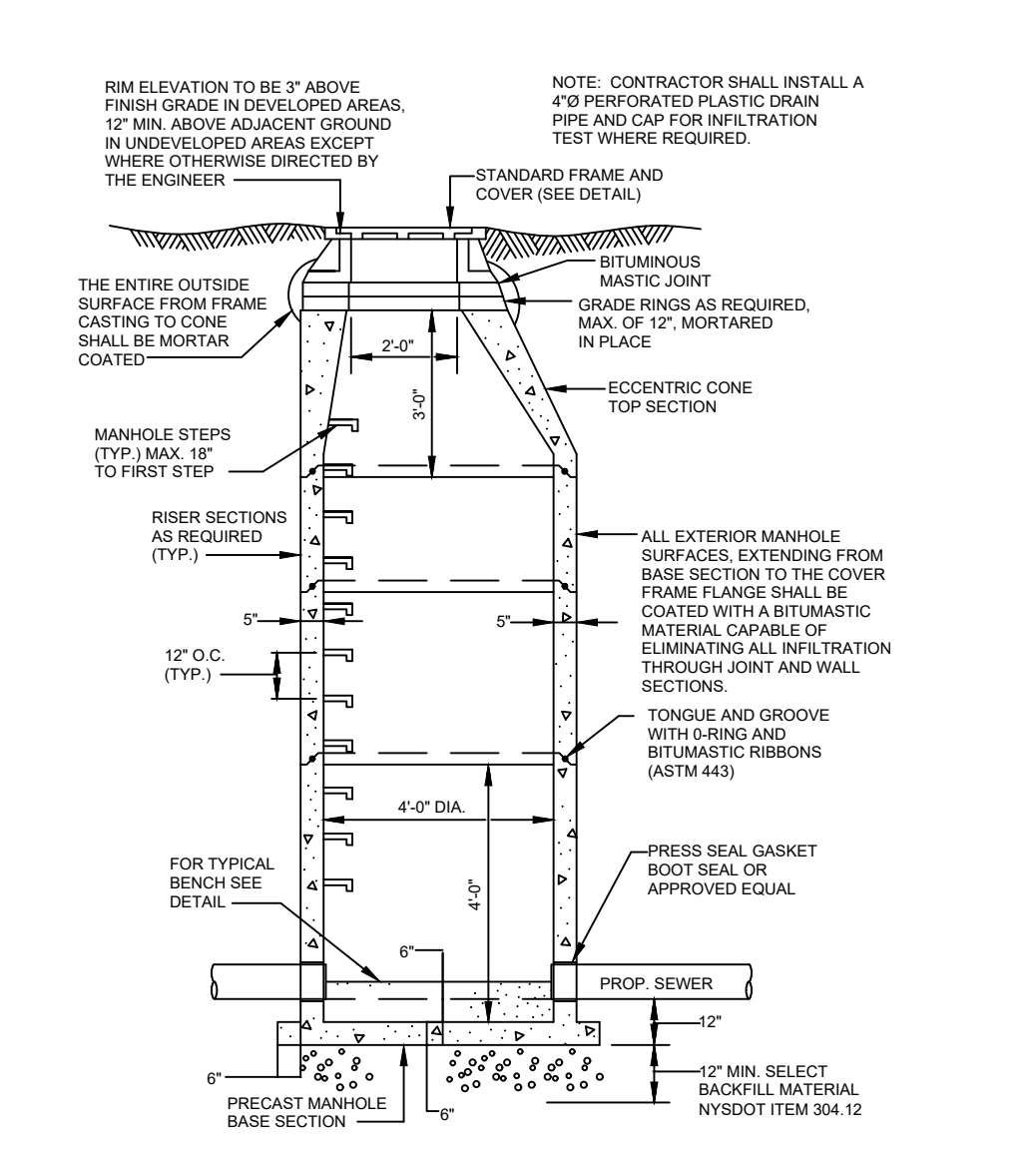
SHEET TITLE
**DETAILS -
SANITARY**

PROJECT NUMBER

PLOT DATE
7/16/2021 9:21:15 AM

SHEET

C7



COPOLYMER POLYPROPYLENE PLASTIC MANHOLE STEP
N.T.S.

TYPICAL SEWER SERVICE CONNECTION DETAIL
N.T.S.



CONTACT:
ATSI, INC.
415 COMMERCE DRIVE
ALBANY, NY 12228
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CONTACT:
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07/16/2021	SITE PLAN SUBMISSION REVISED

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SHEET TITLE

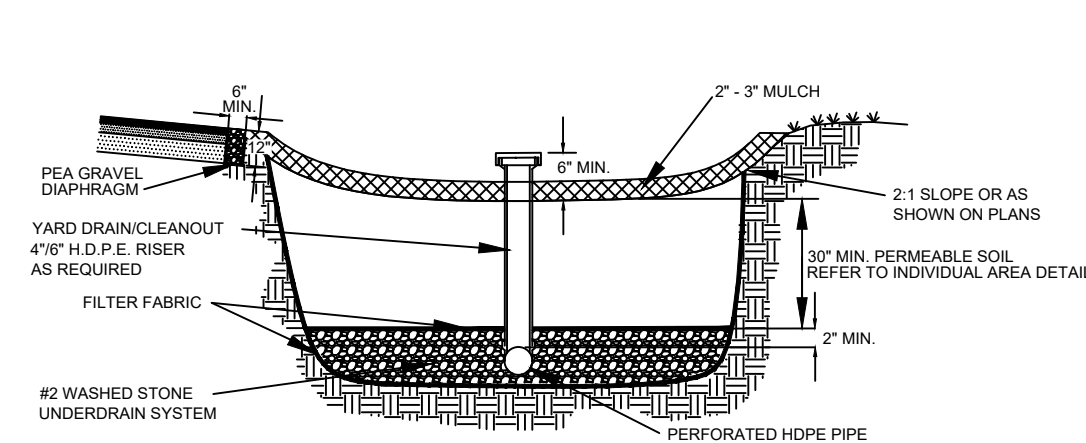
**DETAILS -
STORM
DRAINAGE**

PROJECT NUMBER

PLOT DATE
7/16/2021 9:26:03 AM

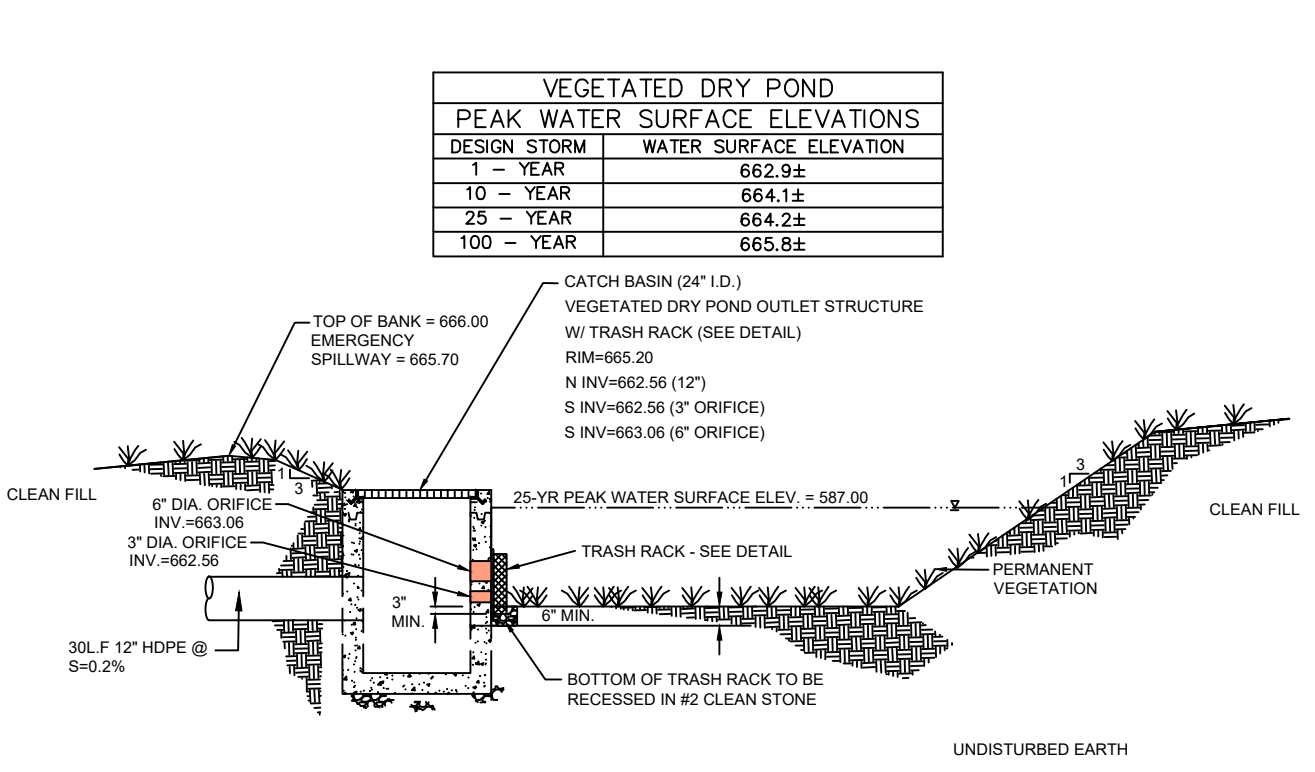
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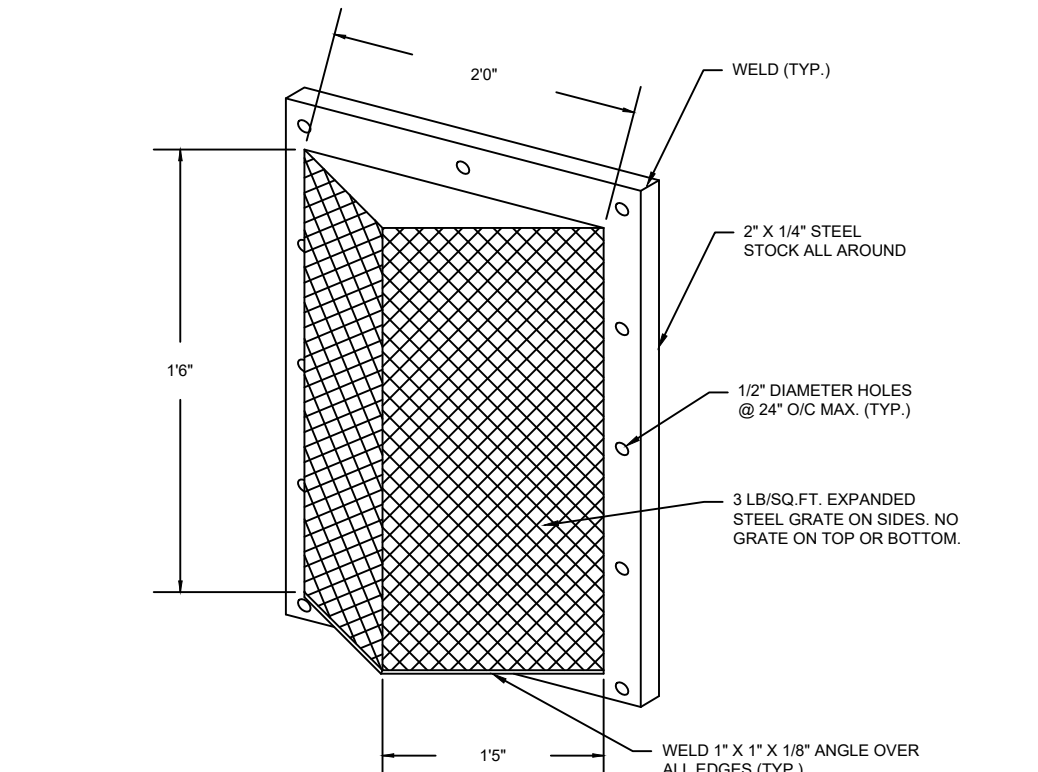


NOTES:
1. THE PERMEABLE SOIL SHALL BE CONSISTENT WITH THE NYSDOT STANDARD SPECIFICATIONS ITEM 208.0103.22. THE "PERMEABLE SOIL" SHALL BE A WELL-BLENDED MIXTURE OF THREE (3) PARTS SAND AND ONE (1) PART TOPSOIL. BY VOLUME, SAND SHALL MEET THE REQUIREMENTS OF SECTION 713.01 "CONCRETE SAND" OF THE NYSDOT STANDARD SPECIFICATIONS. TOPSOIL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 713.01 "TOPSOIL". THE "PERMEABLE SOIL" SHALL HAVE A PERCENTAGE OF 12 TO 17% SAND AND AN ORGANIC CONTENT OF 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 1.5 FEET PER DAY (0.57 IN.) 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 (STOCKPILED 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.

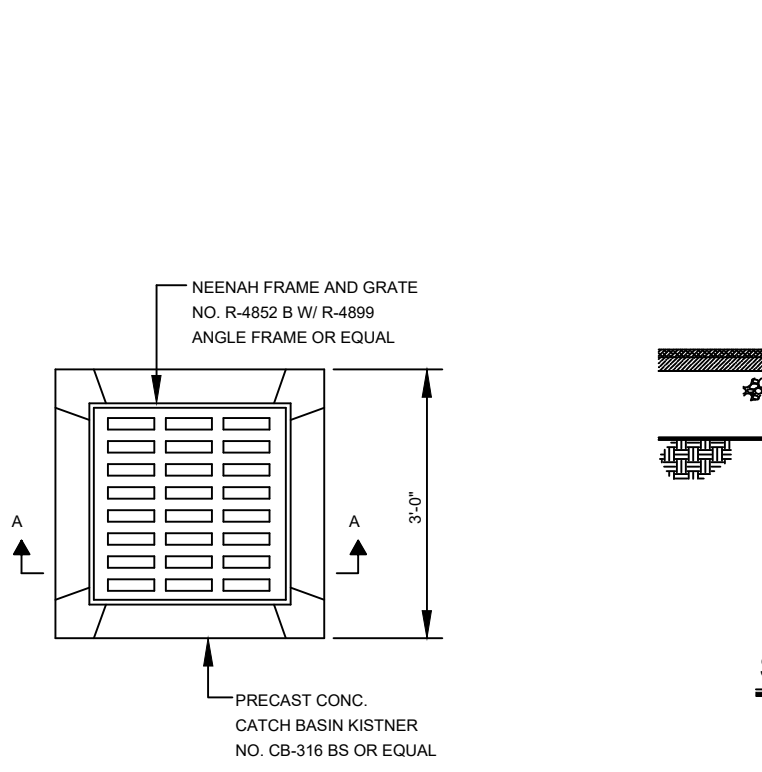
BIO-RETENTION AREA TYPICAL SECTION
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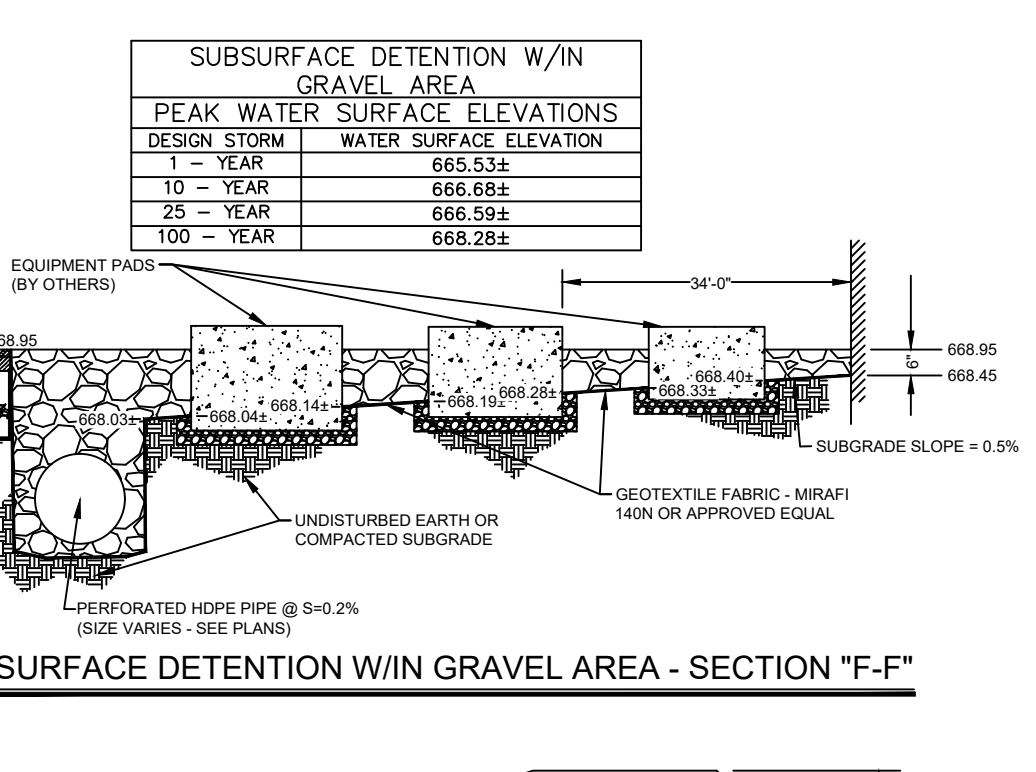
VEGETATED DRY DETENTION AREA TYPICAL CROSS SECTION "C-C"
N.T.S.



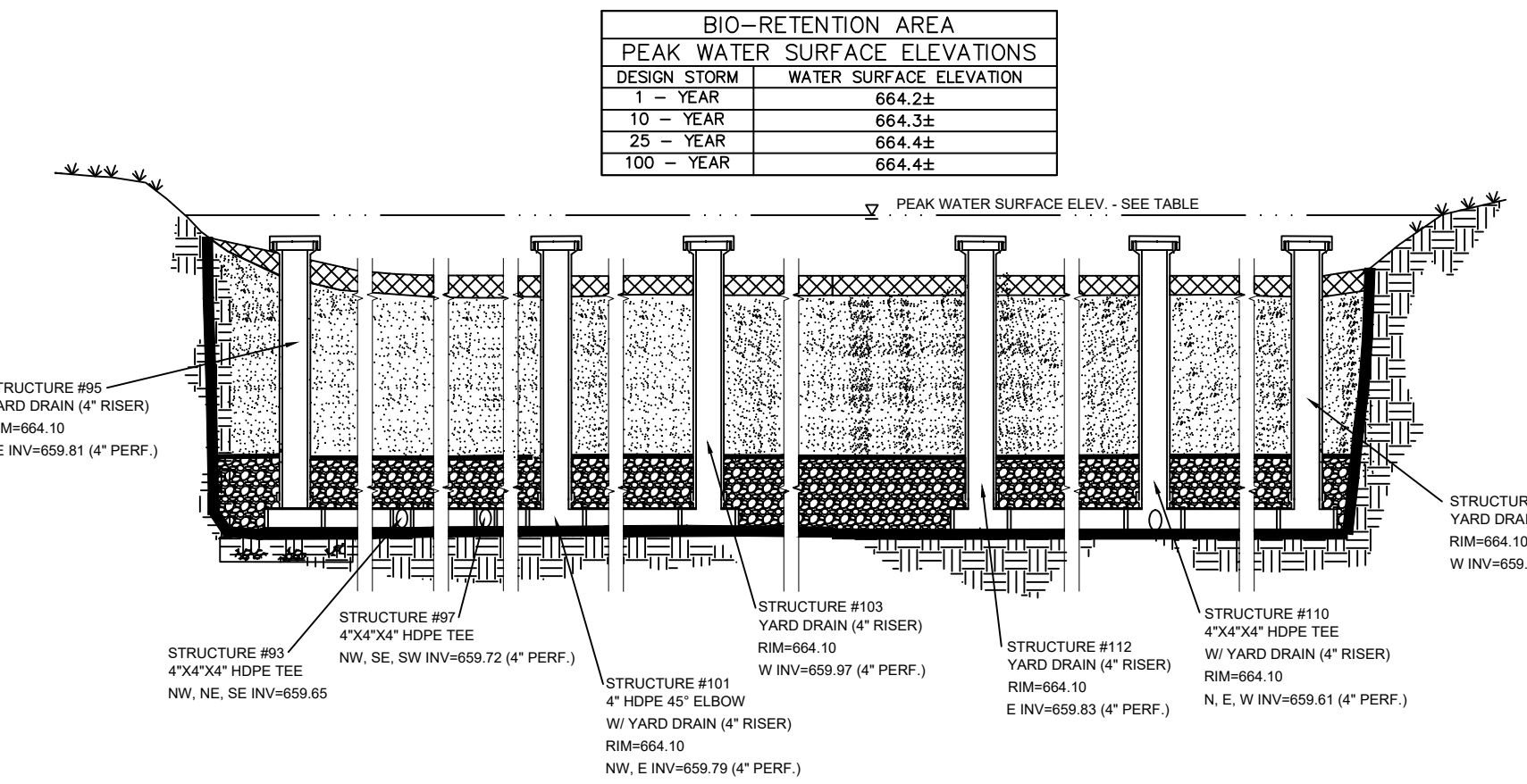
TRASH RACK TYPICAL DETAIL
N.T.S.



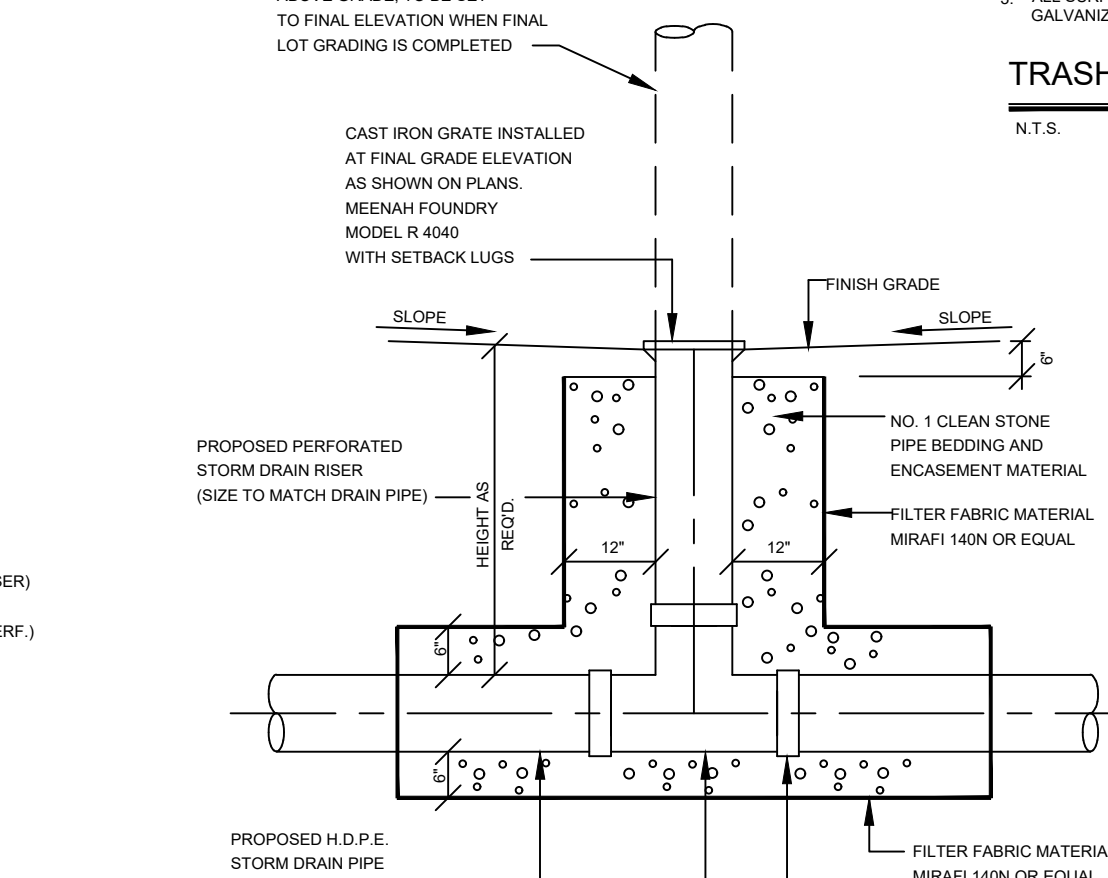
TYPICAL YARD DRAIN CATCH BASIN DETAIL
N.T.S.



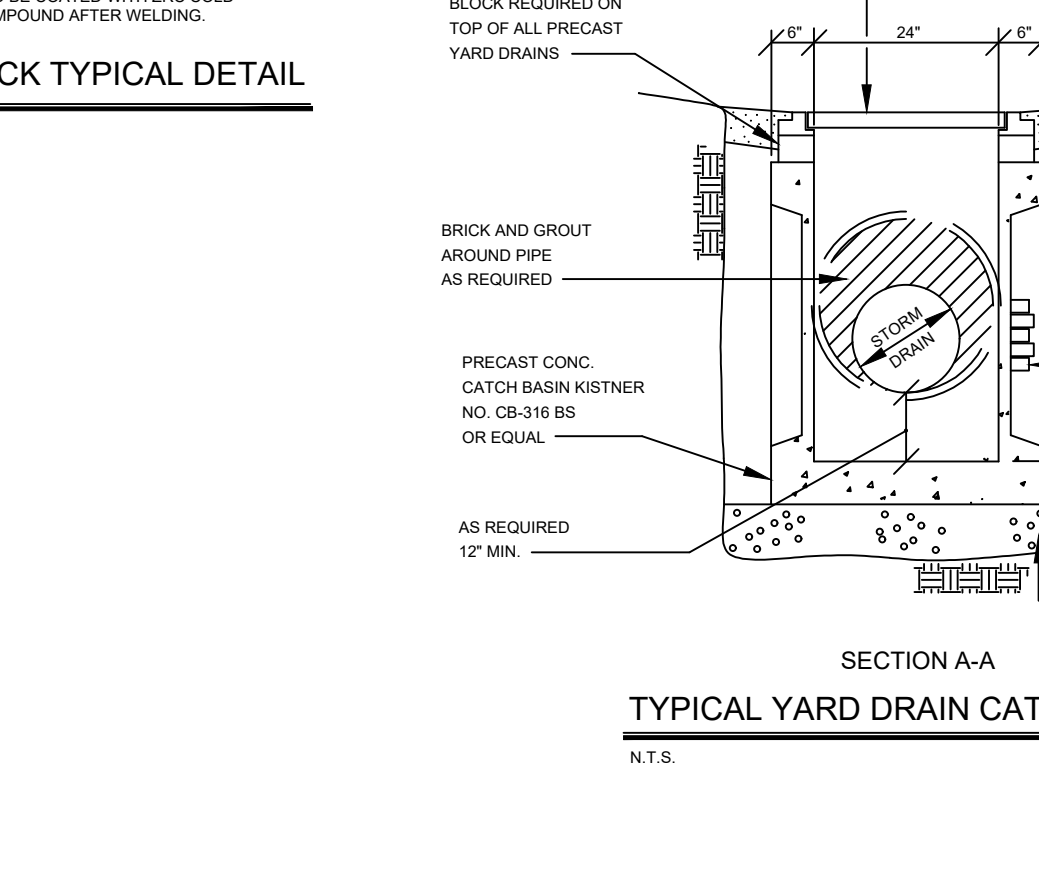
SUBSURFACE DETENTION W/IN GRAVEL AREA - SECTION "F-F"
N.T.S.



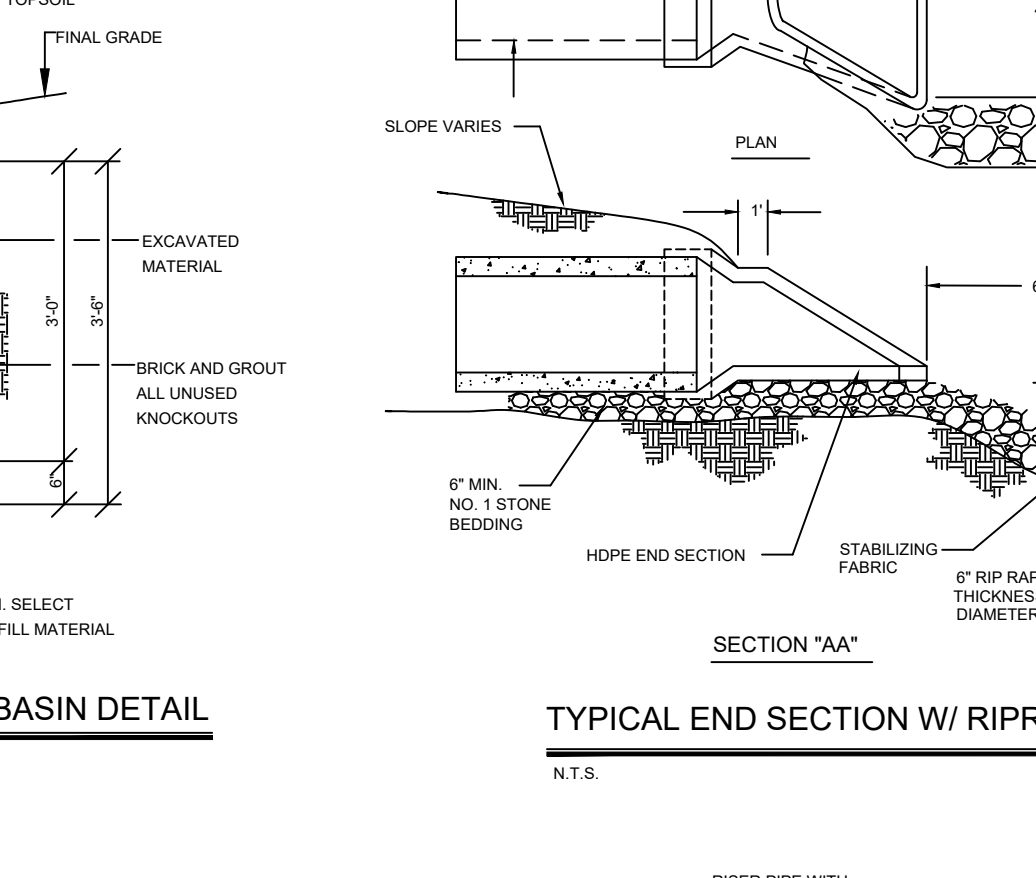
BIO-RETENTION AREA CROSS SECTION "A-A"
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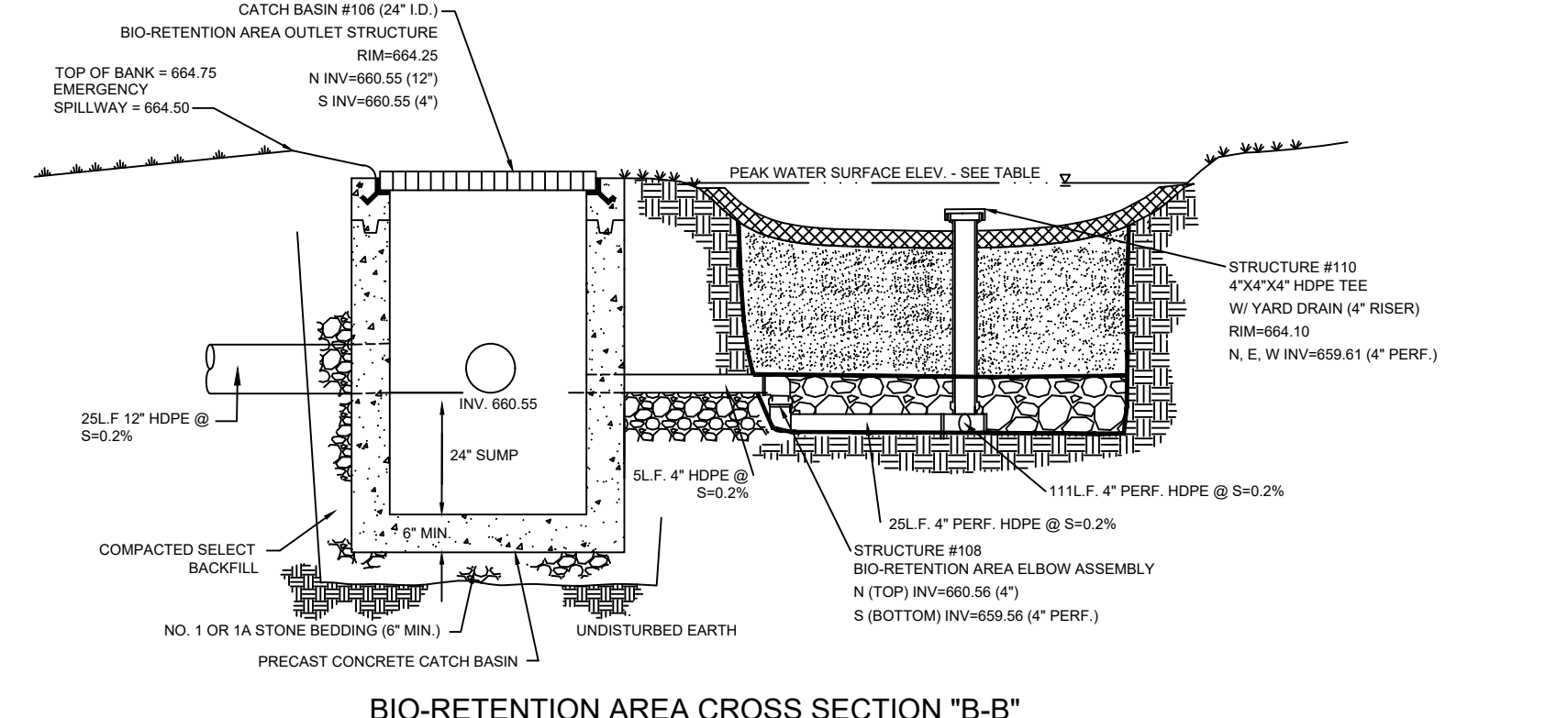
TYPICAL REAR YARD DRAIN DETAIL
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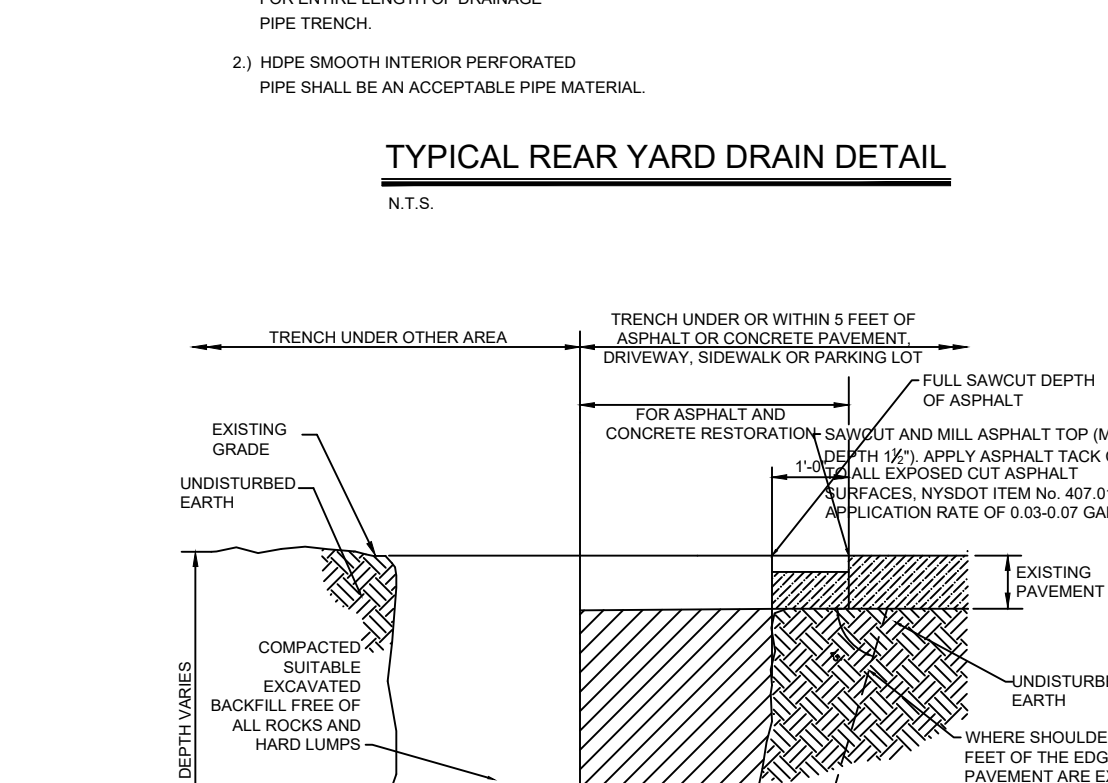
TYPICAL END SECTION W/ RIPRAP DETAIL
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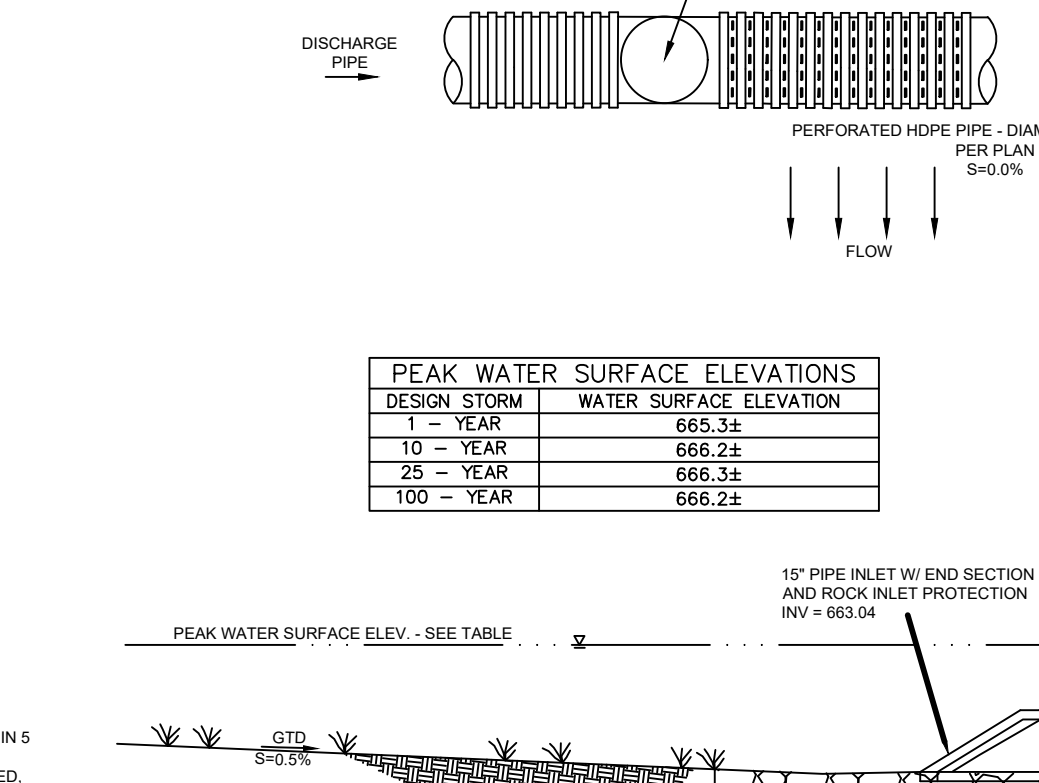
WEST SEDIMENT BASIN OUTLET AND LEVEL SPREADER - SECTION "D-D"
N.T.S.



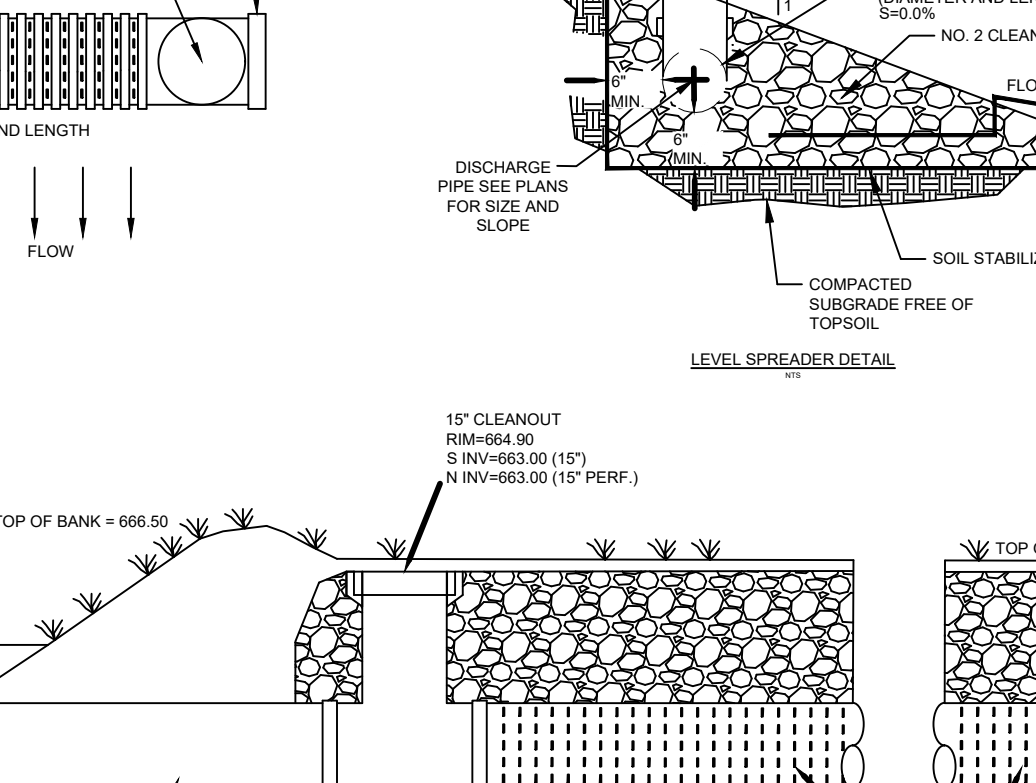
BIO-RETENTION AREA CROSS SECTION "B-B"
N.T.S.



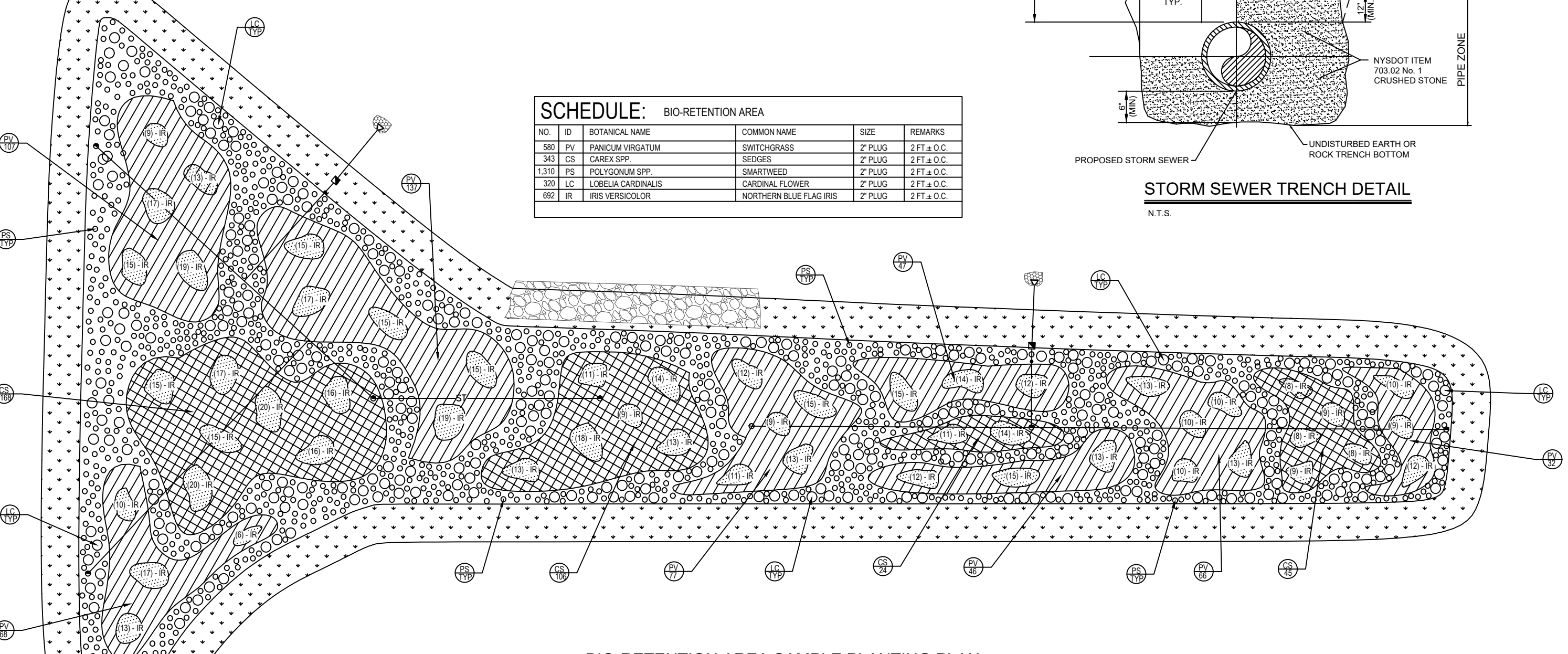
STORM SEWER TRENCH DETAIL
N.T.S.



NORTH SEDIMENT BASIN OUTLET AND LEVEL SPREADER - SECTION "E-E"
N.T.S.



NORTH SEDIMENT BASIN OUTLET AND LEVEL SPREADER - SECTION "E-E"
N.T.S.



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

SCHEDULE: BIO-RETENTION AREA

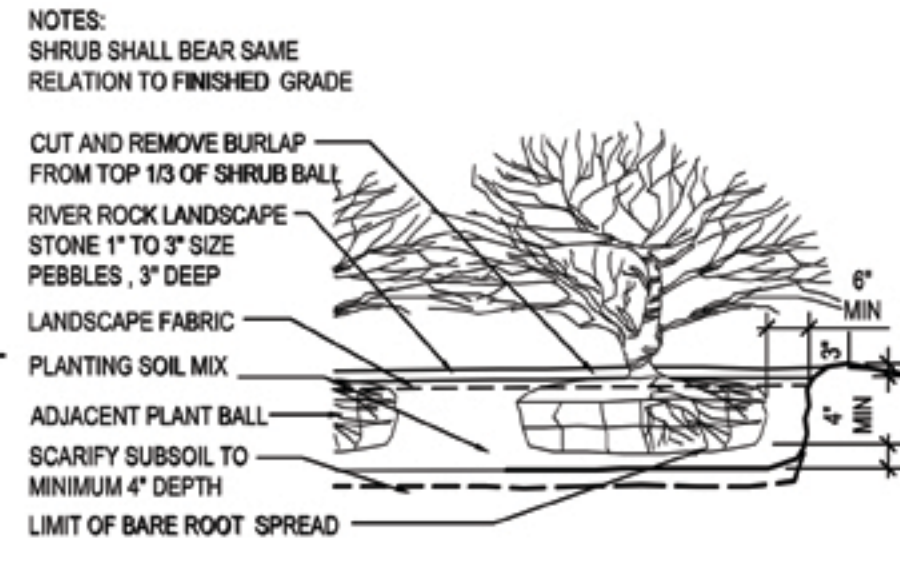
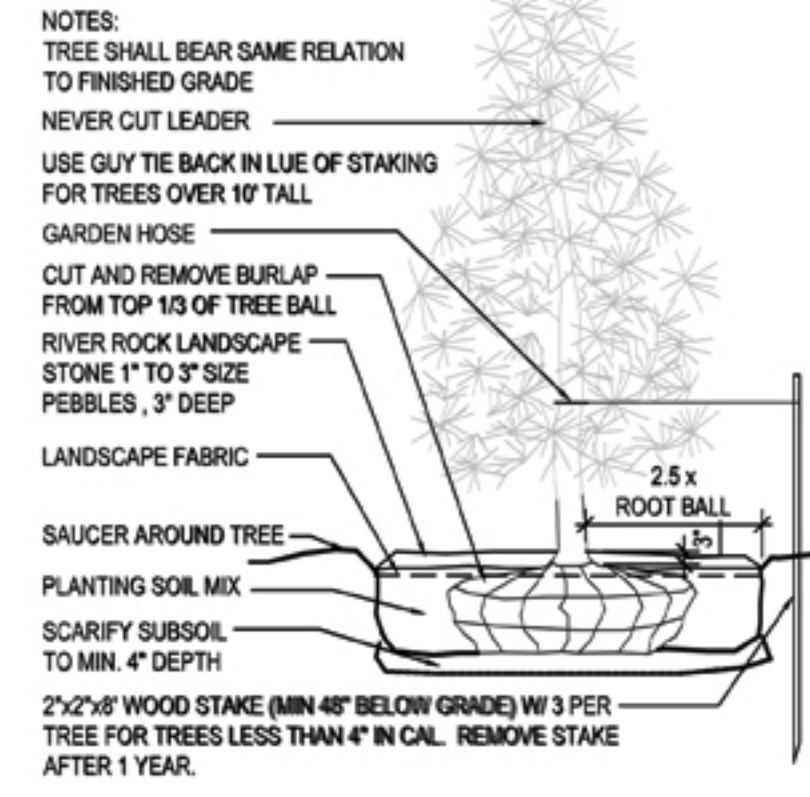
ID	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
300	PA. PANICUM VIRGATUM	SWITCHGRASS	2' PLUG, 2 FT ± O.C.	
343	CS. CAREX SPP.	SEDGES	2' PLUG, 2 FT ± O.C.	
1310	PS. POLYGONUM SPP.	SMARTWEEDS	2' PLUG, 2 FT ± O.C.	
329	LC. LOBELIA ORNAMENTALIS	CORONAL BELL	2' PLUG, 2 FT ± O.C.	
892	IR. IRRIS-VISICOLOR	NORTHERN BLUE FLAG IRIS	2' PLUG, 2 FT ± O.C.	

PEAK WATER SURFACE ELEVATIONS

DESIGN STORM	WATER SURFACE ELEVATION
1 - YEAR	665.3±
10 - YEAR	666.2±
25 - YEAR	666.3±
100 - YEAR	666.2±

NORTH SEDIMENT BASIN

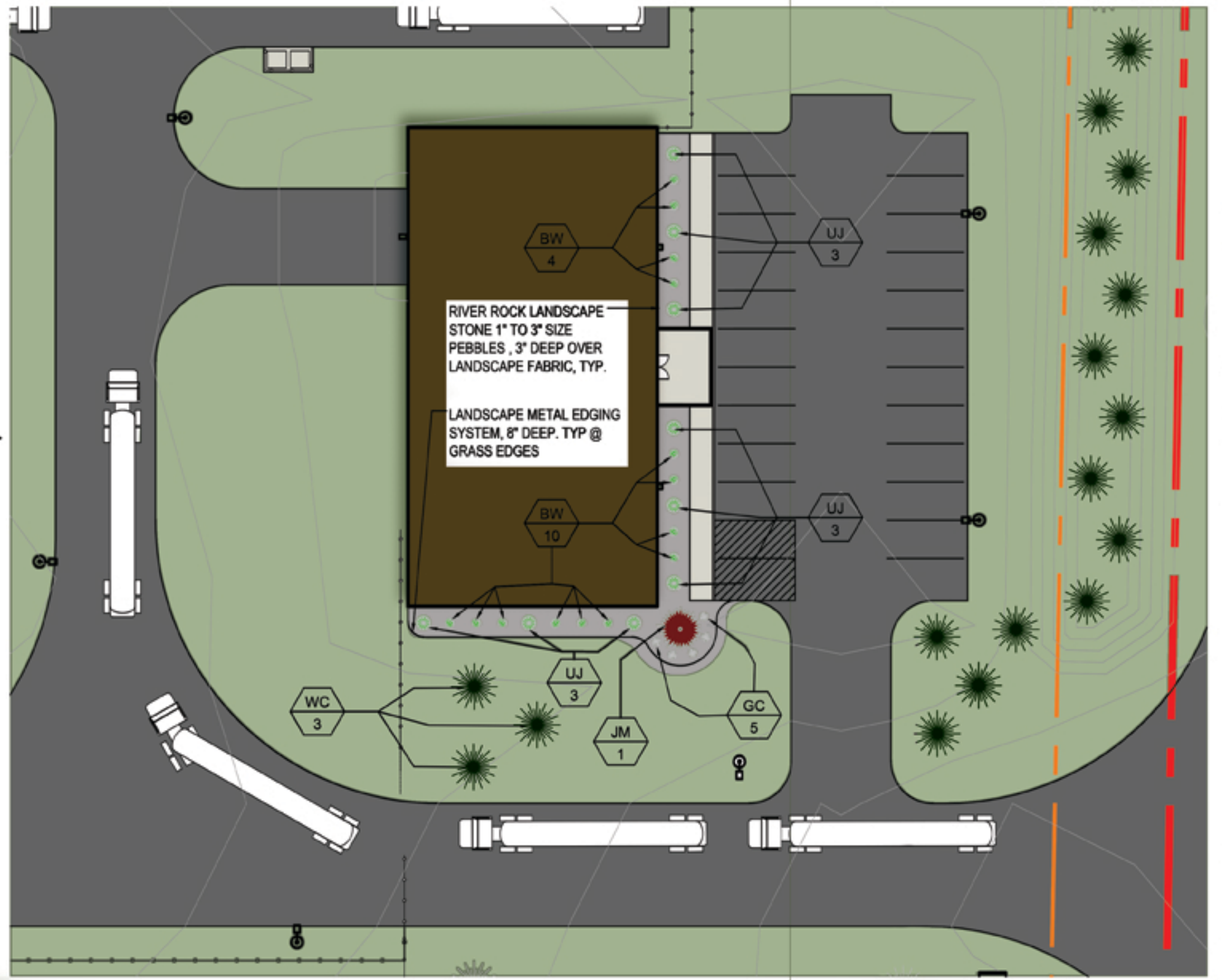
DESIGN STORM	WATER SURFACE ELEVATION
1 - YEAR	665.0±
10 - YEAR	665.9±
25 - YEAR	666.1±
100 - YEAR	666.0±



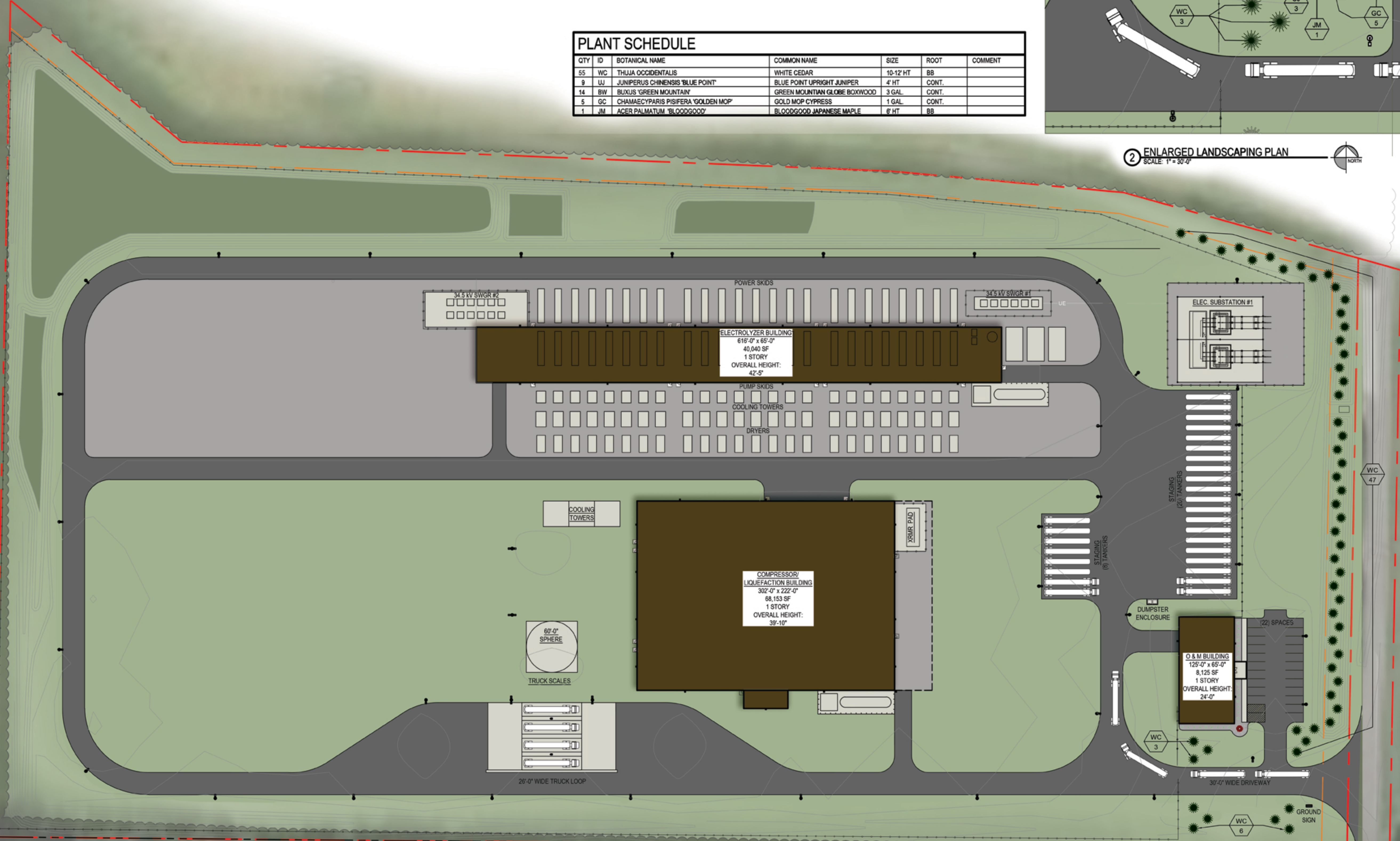
3 PLANTING DETAILS
 SCALE: NTS

QTY	ID	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENT
55	WC	THUJA OCCIDENTALIS	WHITE CEDAR	10-12 HT	BB	
9	UJ	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	8' 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
 PROJECT:
 HYDROGEN PRODUCTION FACILITY
 (STAMP - PROJECT GATEWAY)
 ALABAMA, NY 14913



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ISSUE DATE	DESCRIPTION
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SHEET TITLE:
 LANDSCAPING PLAN,
 SCHEDULE, & DETAILS

PROJECT NUMBER:
 2021-001
 PLOT DATE:
 7/19/2021 11:35:44 AM

SHEET:
 C9

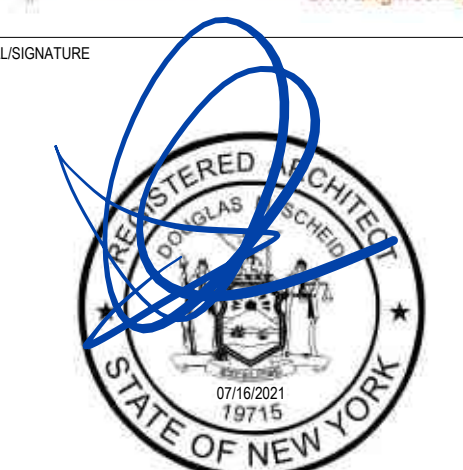


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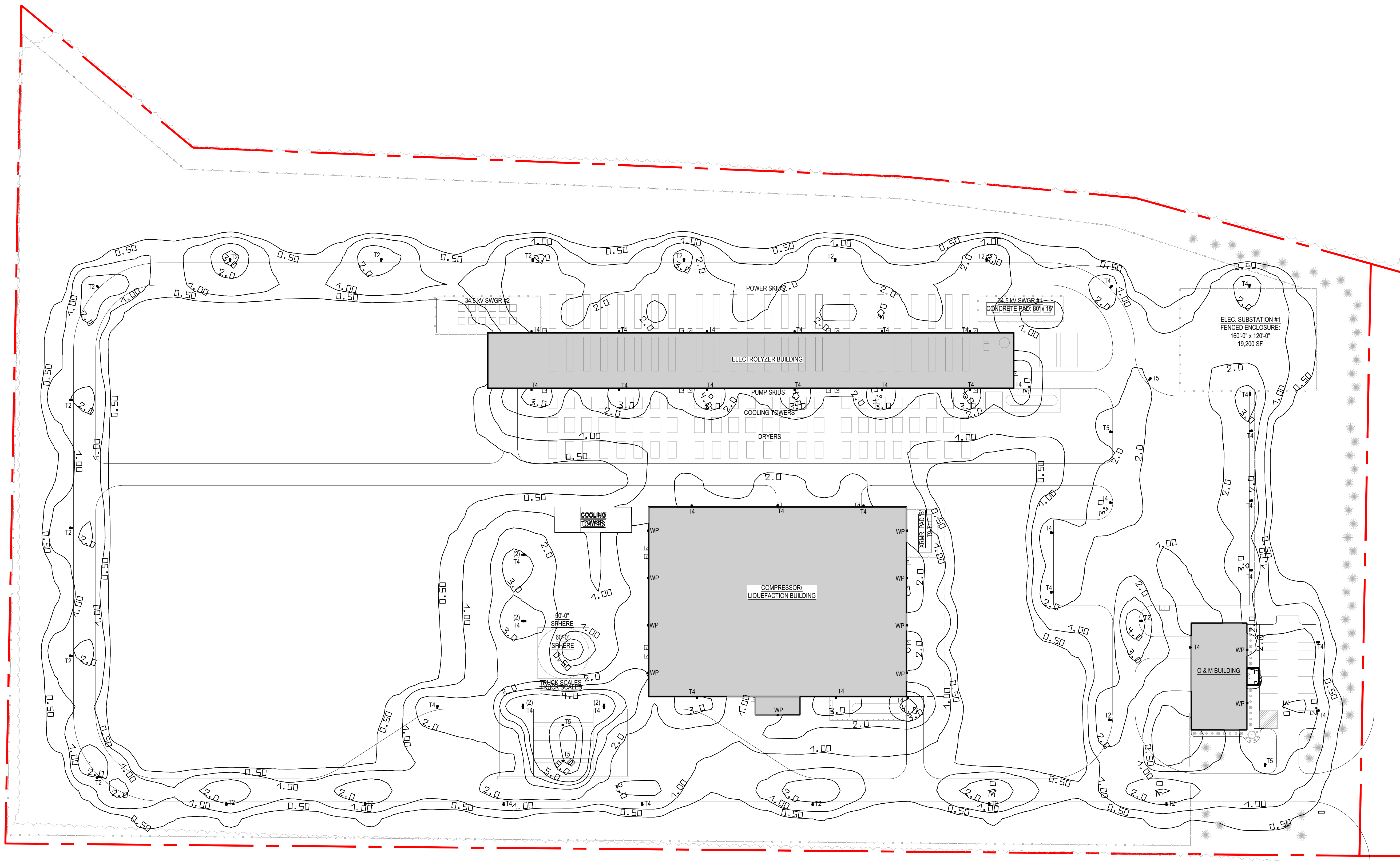


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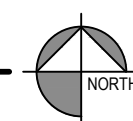
SHEET TITLE
**SITE LIGHTING PLAN,
SCHEDULE, & DETAIL**

PROJECT NUMBER
2021-001
PLOT DATE
7/16/2021 11:40:59 AM
SHEET

C10

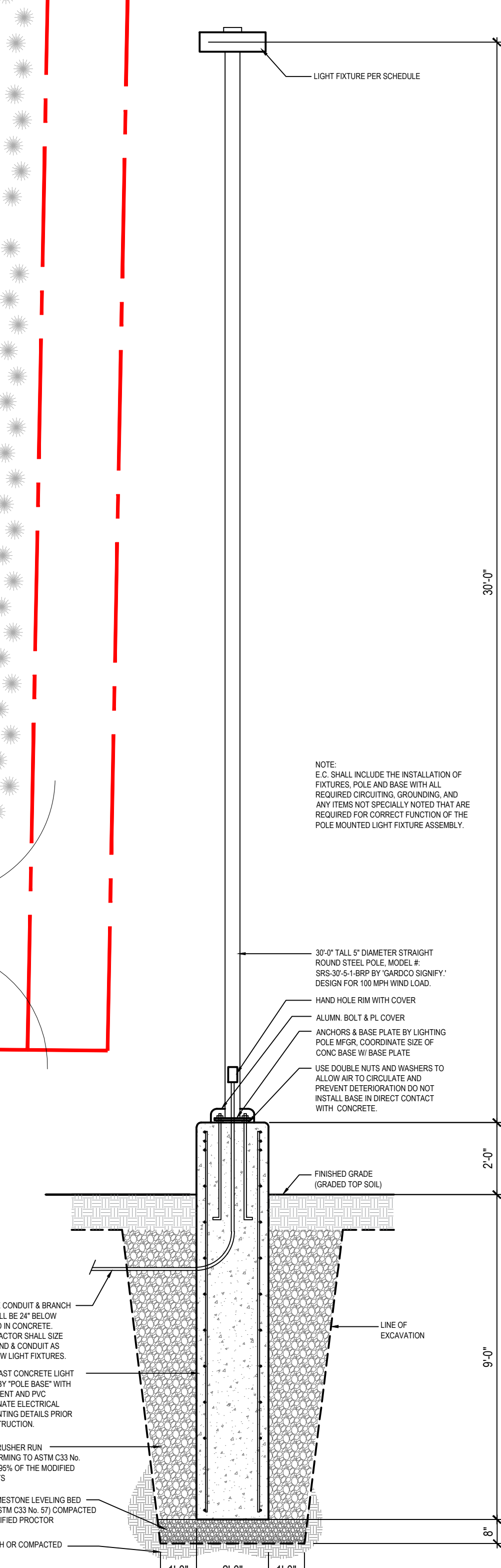


1 PROPOSED SITE LIGHTING PLAN
SCALE: 1" = 60'-0"



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



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

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.

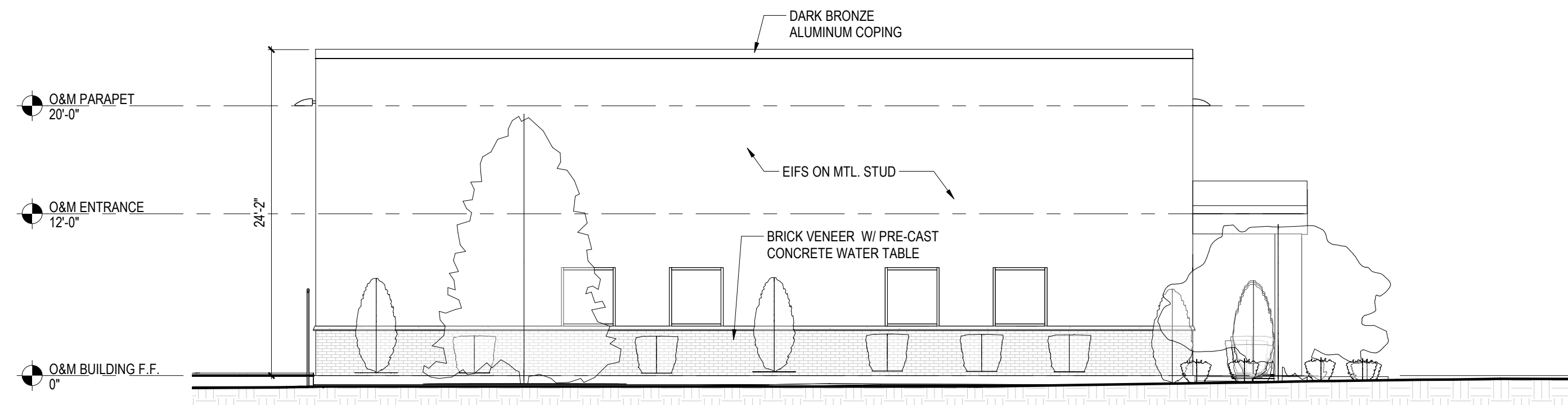
BACKFILL WITH 1" CRUSHER RUN LIMESTONE (CONFORMING TO ASTM C33 No. 87) COMPACTED TO 95% OF THE MODIFIED PROCTOR IN 12" LIFTS.

1" CRUSHER RUN LIMESTONE LEVELING BED (CONFORMING TO ASTM C33 No. 87) COMPACTED TO 95% OF THE MODIFIED PROCTOR.

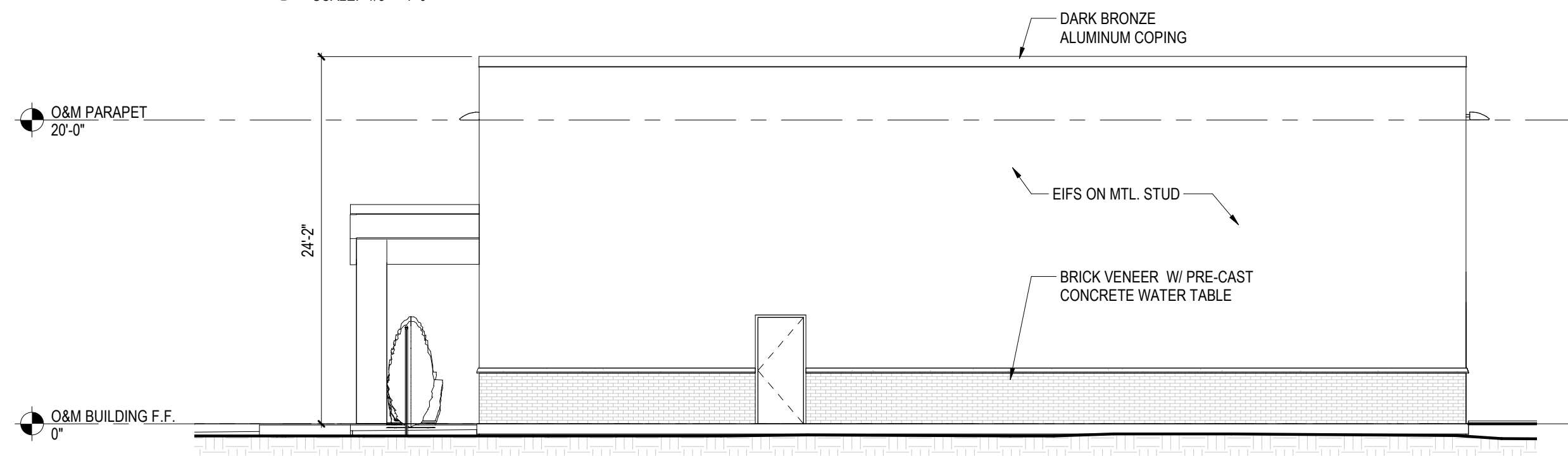
UNDISTURBED EARTH OR COMPACTED SUB-GRADE.

NOTE:
E.C. SHALL INCLUDE THE INSTALLATION OF FIXTURES, POLE AND BASE WITH ALL REQUIRED CIRCUITING, GROUNDING, AND ANY ITEMS NOT SPECIALLY NOTED THAT ARE REQUIRED FOR CORRECT FUNCTION OF THE POLE MOUNTED LIGHT FIXTURE ASSEMBLY.

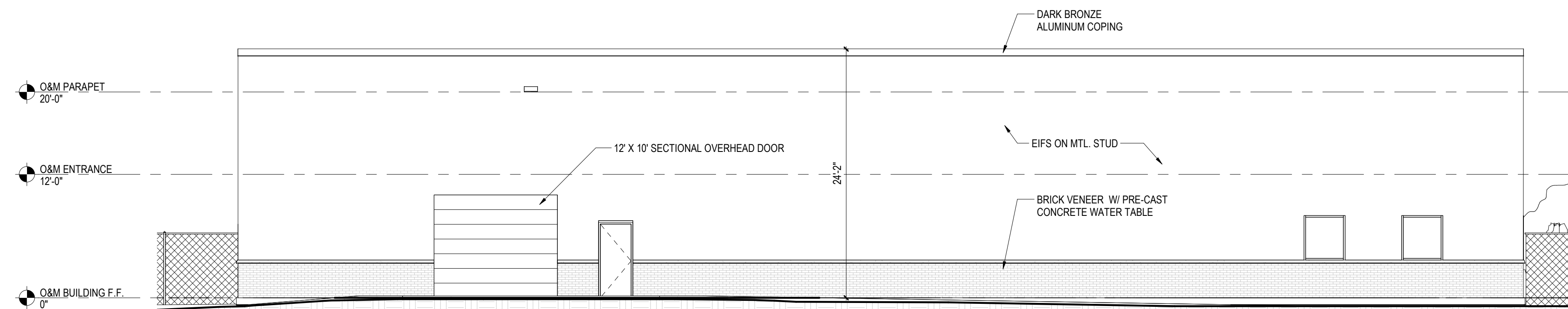
30" TALL 1" DIAMETER STRAIGHT ROUND STEEL POLE, MODEL # SRS 30-1-BRP BY YARDCO SIGNIFY, DESIGN FOR 100 MPH WIND LOAD.
LAND HOLE 6" MIN WITH COVER.
ALUMN. BOLT & PL. COVER.
ANCHORS & BASE PLATE BY LIGHTING POLE MFR. COORDINATE SIZE OF CONC. BASE W/ BASE PLATE.
USE DOUBLE NUTS AND WASHERS TO ALLOW AIR TO CIRCULATE AND PREVENT DETERIORATION. DO NOT INSTALL BASE IN DIRECT CONTACT WITH CONCRETE.



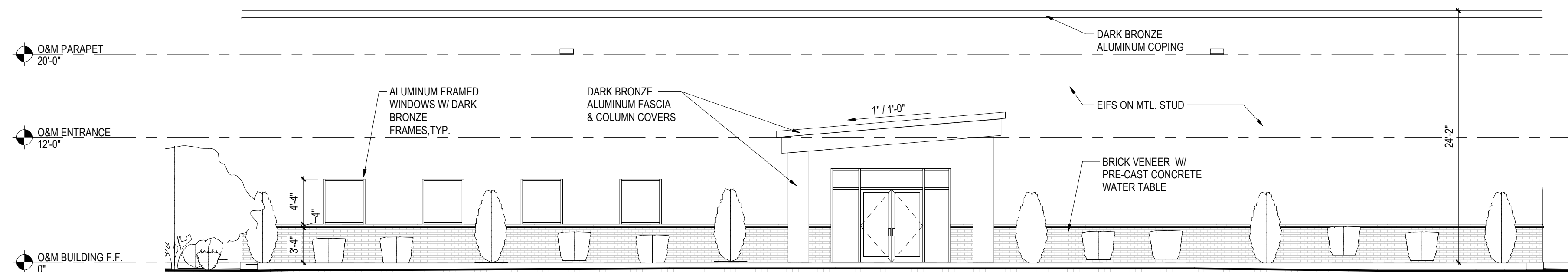
1 SOUTH ELEVATION OF OPERATION & MAINTENANCE BUILDING
SCALE: 1/8" = 1'-0"



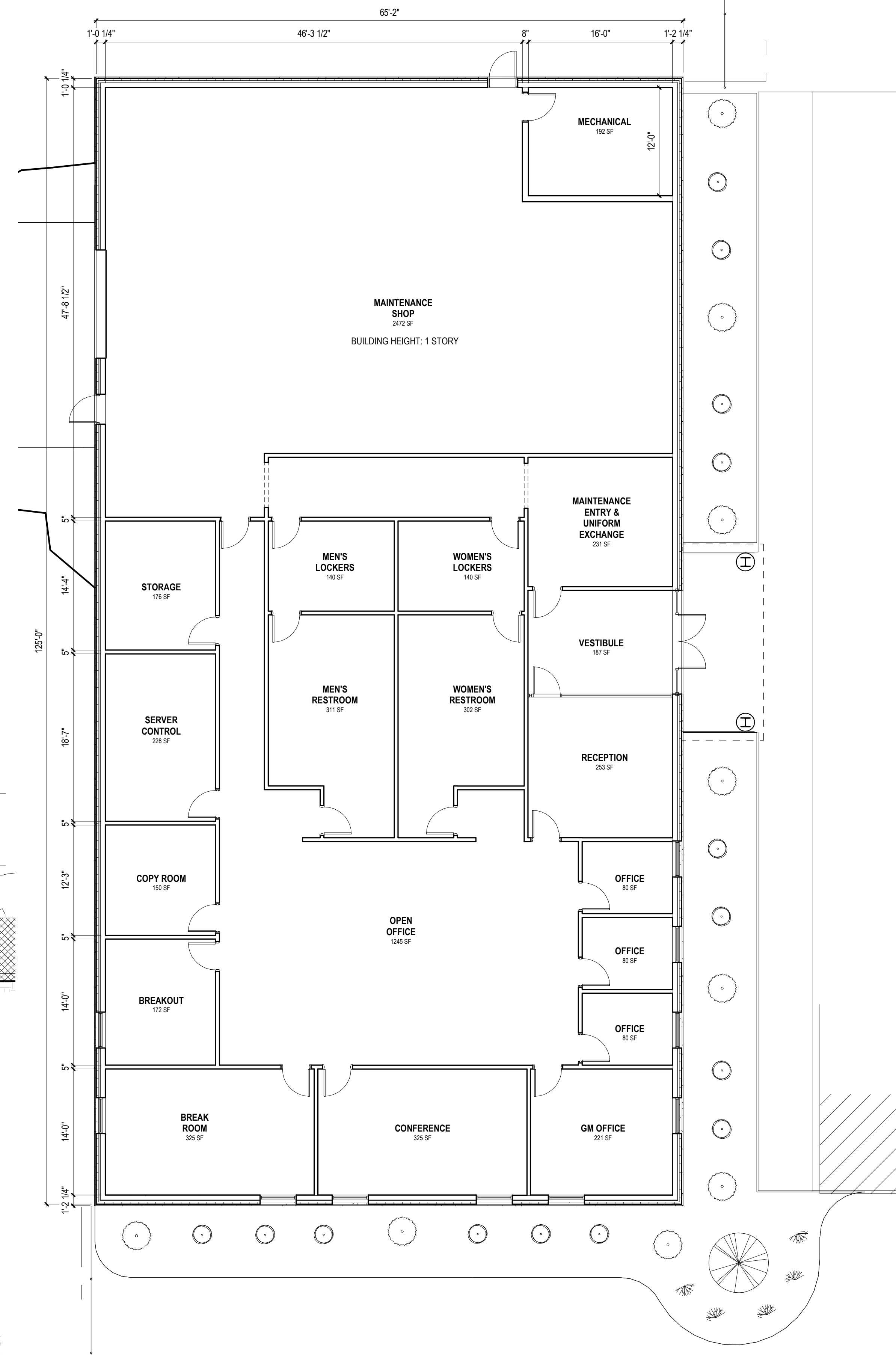
2 NORTH ELEVATION OF OPERATION & MAINTENANCE BUILDING
SCALE: 1/8" = 1'-0"



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



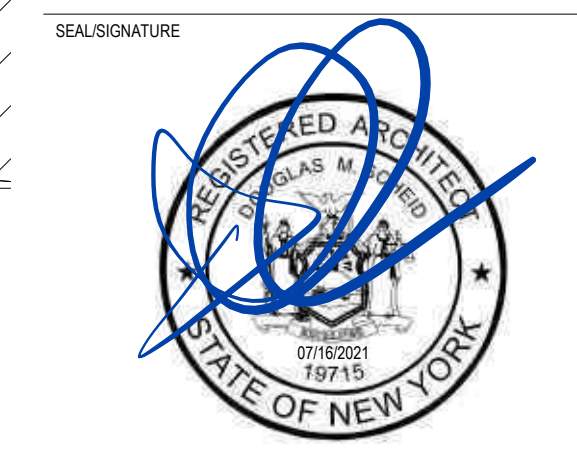
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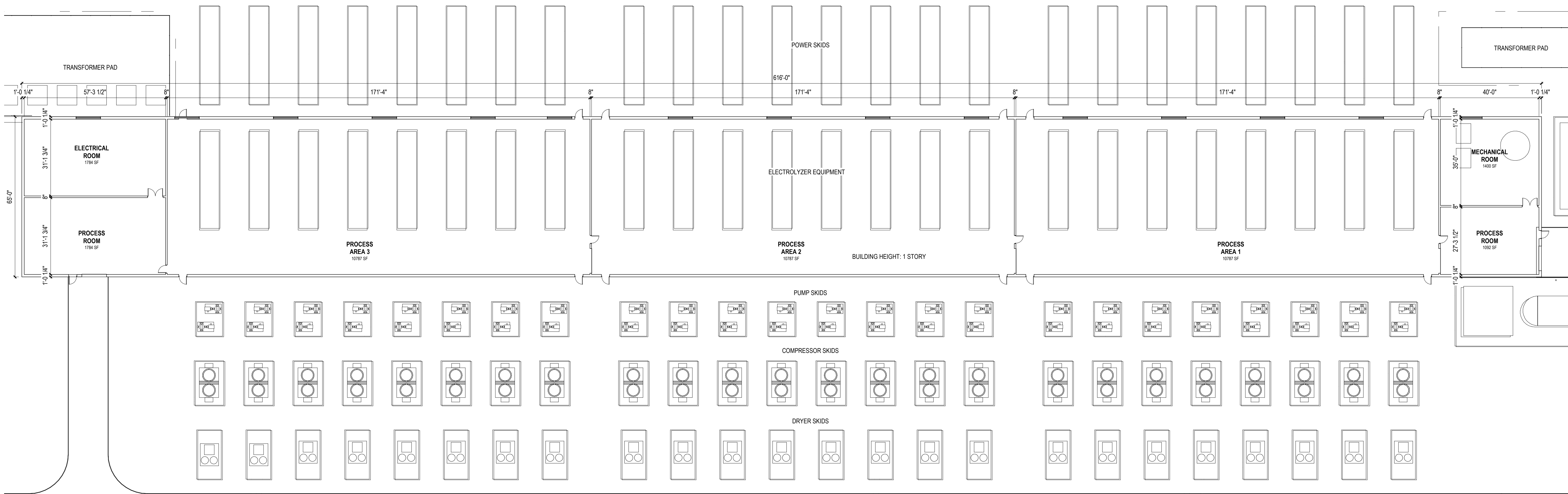


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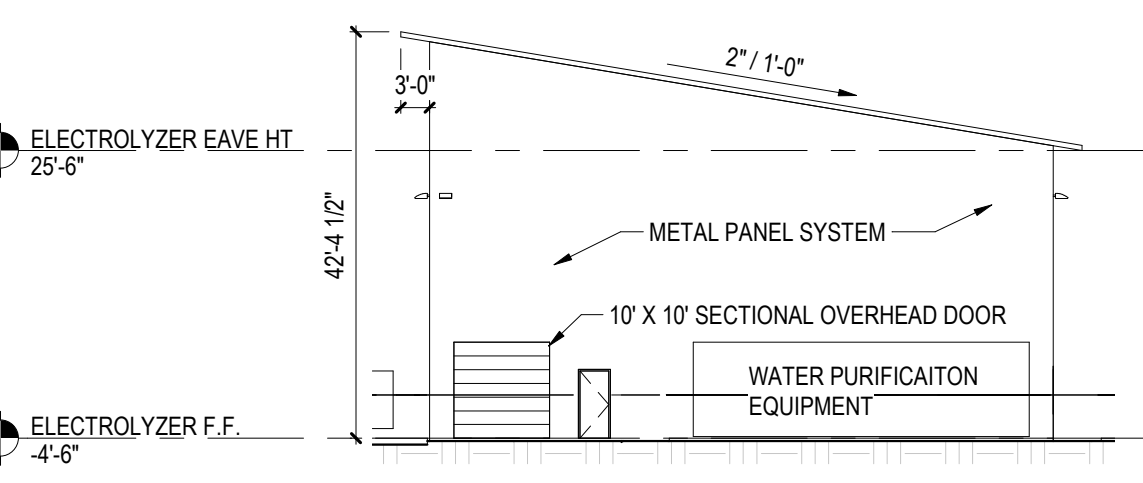
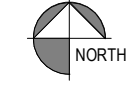
SHEET TITLE
PROPOSED FLOOR PLAN &
EXTERIOR ELEVATIONS - O&M
BUILDING

PROJECT NUMBER
2021-001
PLOT DATE
7/16/2021 8:23:27 AM

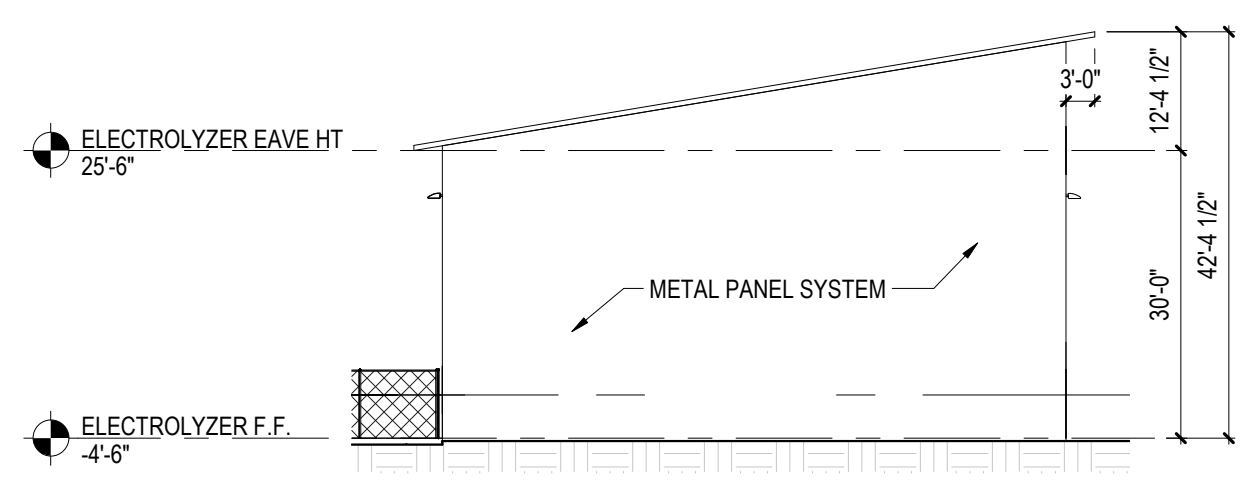
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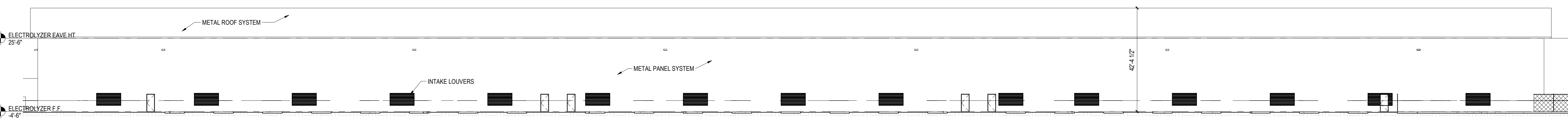
1 PRELIMINARY FLOOR PLAN OF ELECTROLYZER BUILDING
SCALE: 1" = 20'-0"



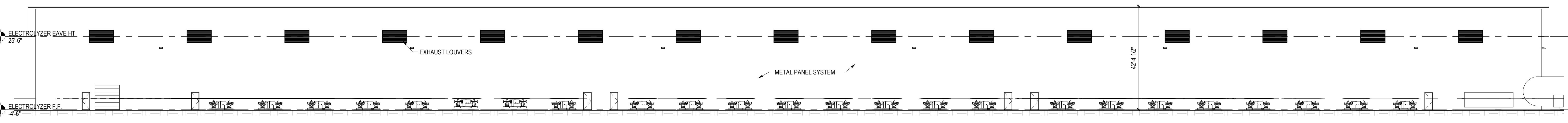
2 EAST ELEVATION OF ELECTROLYZER BUILDING
SCALE: 1" = 20'-0"



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"



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



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

PROJECT NUMBER:
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PLOT DATE:
7/16/2021 8:23:28 AM
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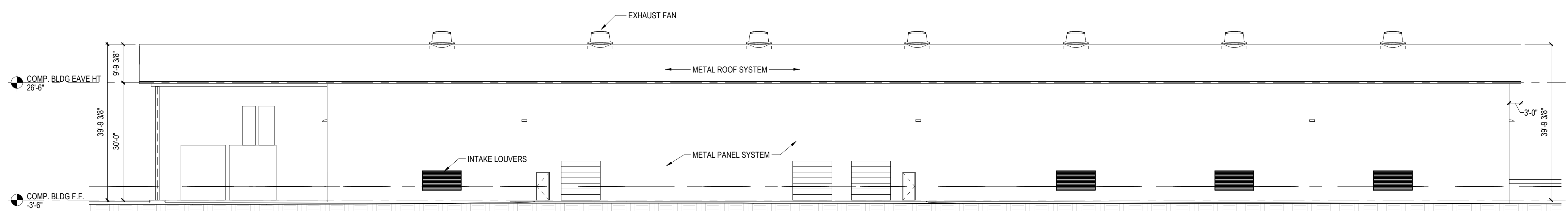
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SHEET TITLE:
**PROPOSED FLOOR PLAN &
EXTERIOR ELEVATIONS -
COMPRESSOR / LIQUEFACTION
BUILDING**

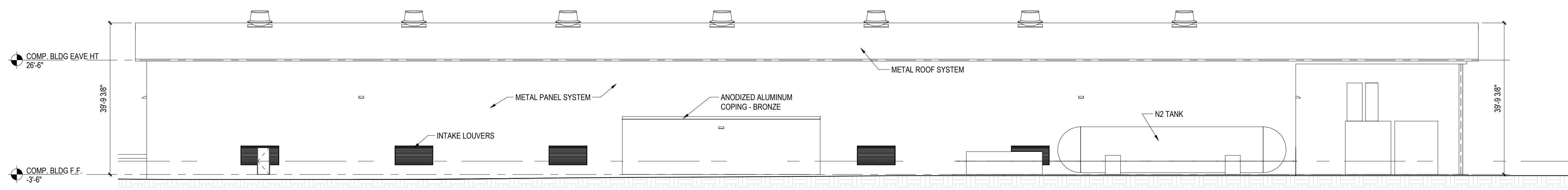
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2021-001

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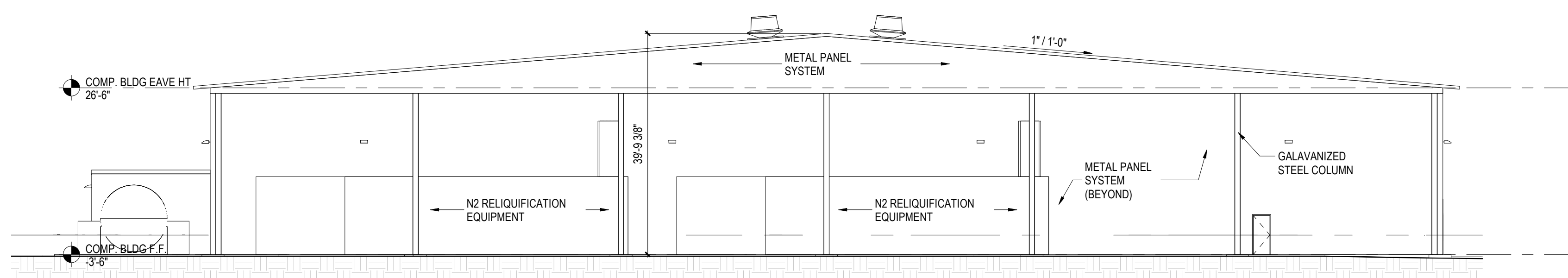
SHEET
A3



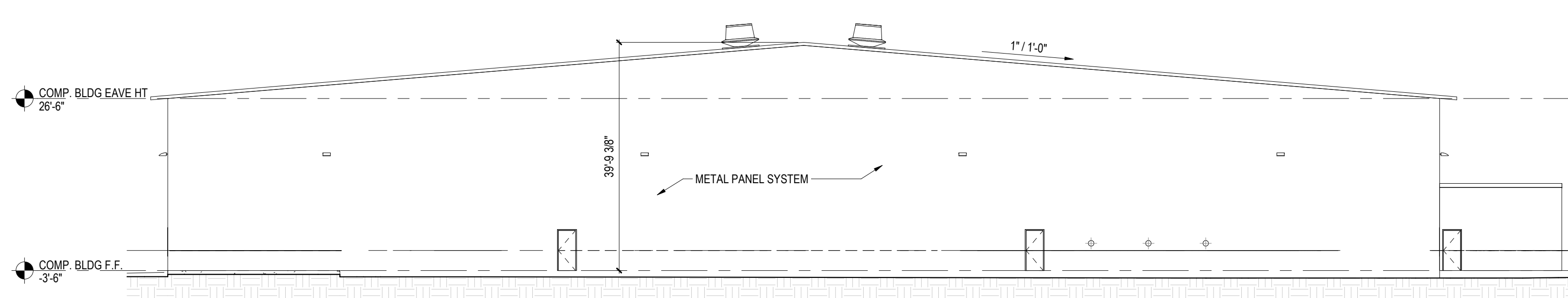
1 NORTH ELEVATION OF COMPRESSOR / LIQUEFACTION BUILDING
SCALE: 1/16" = 1'-0"



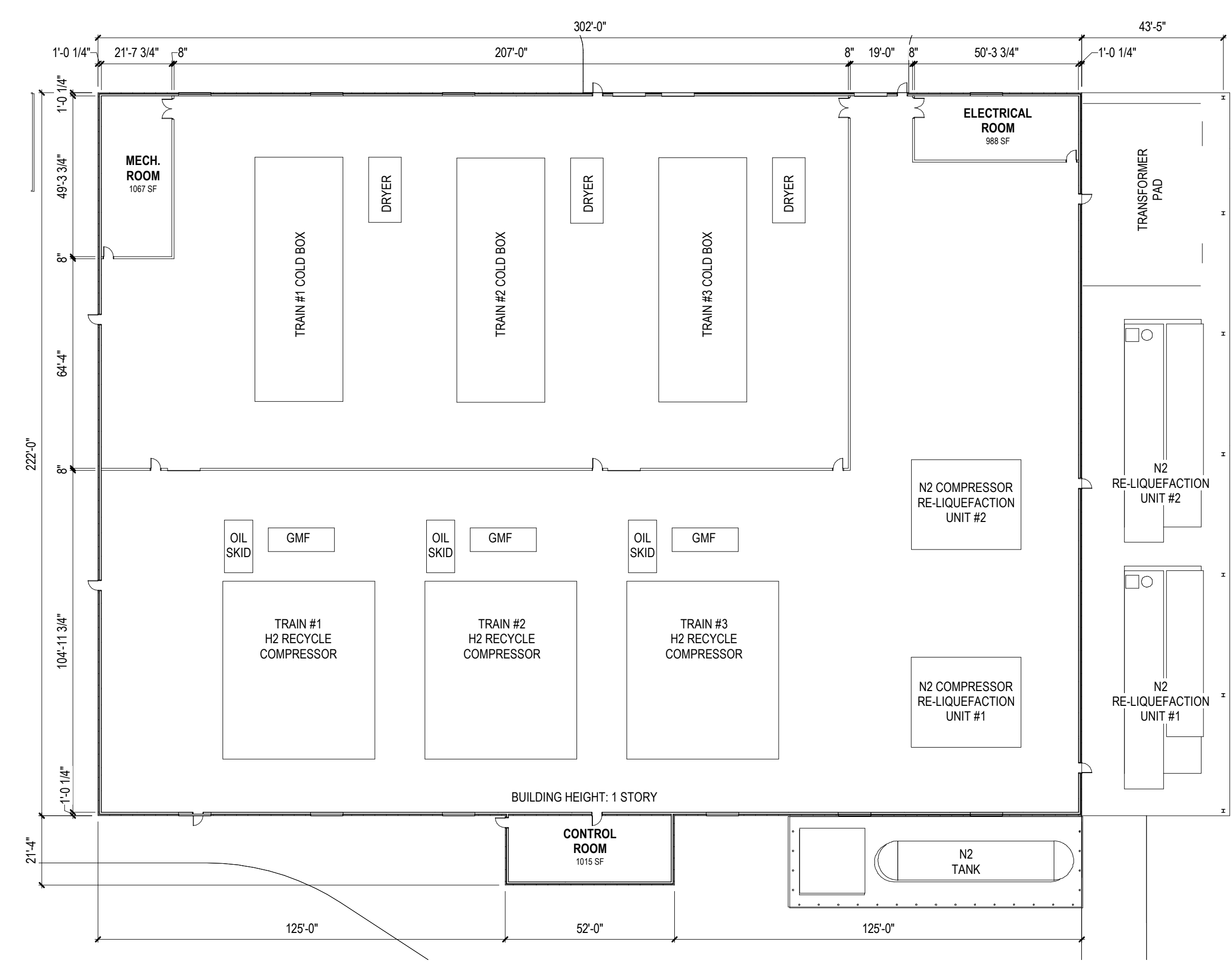
2 SOUTH ELEVATION OF COMPRESSOR / LIQUEFACTION BUILDING
SCALE: 1/16" = 1'-0"



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

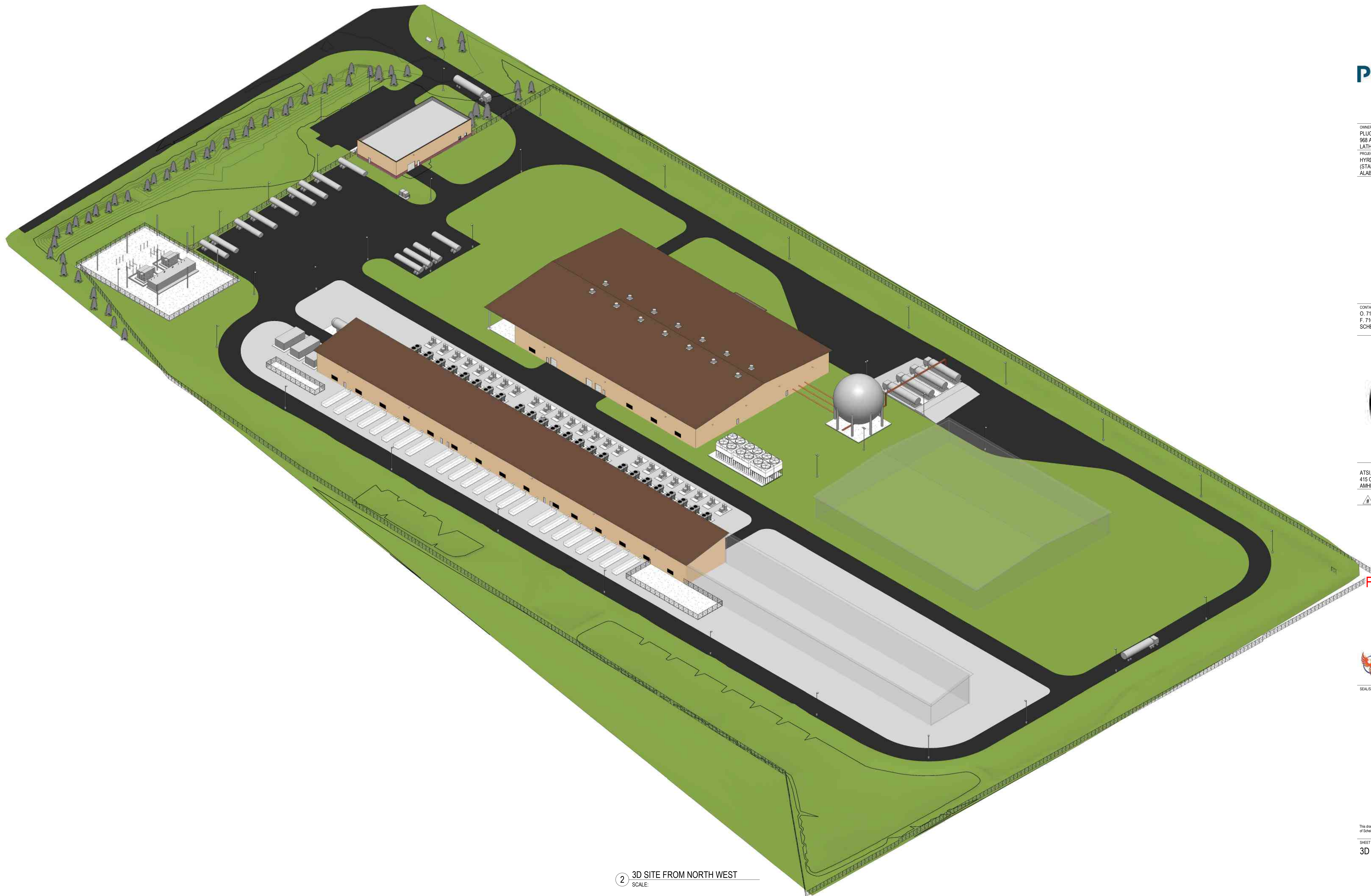


4 WEST ELEVATION OF COMPRESSOR / LIQUEFACTION BUILDING
SCALE: 1/16" = 1'-0"



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





2 3D SITE FROM NORTH WEST
SCALE:



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

PROJECT
HYDROGEN PRODUCTION FACILITY
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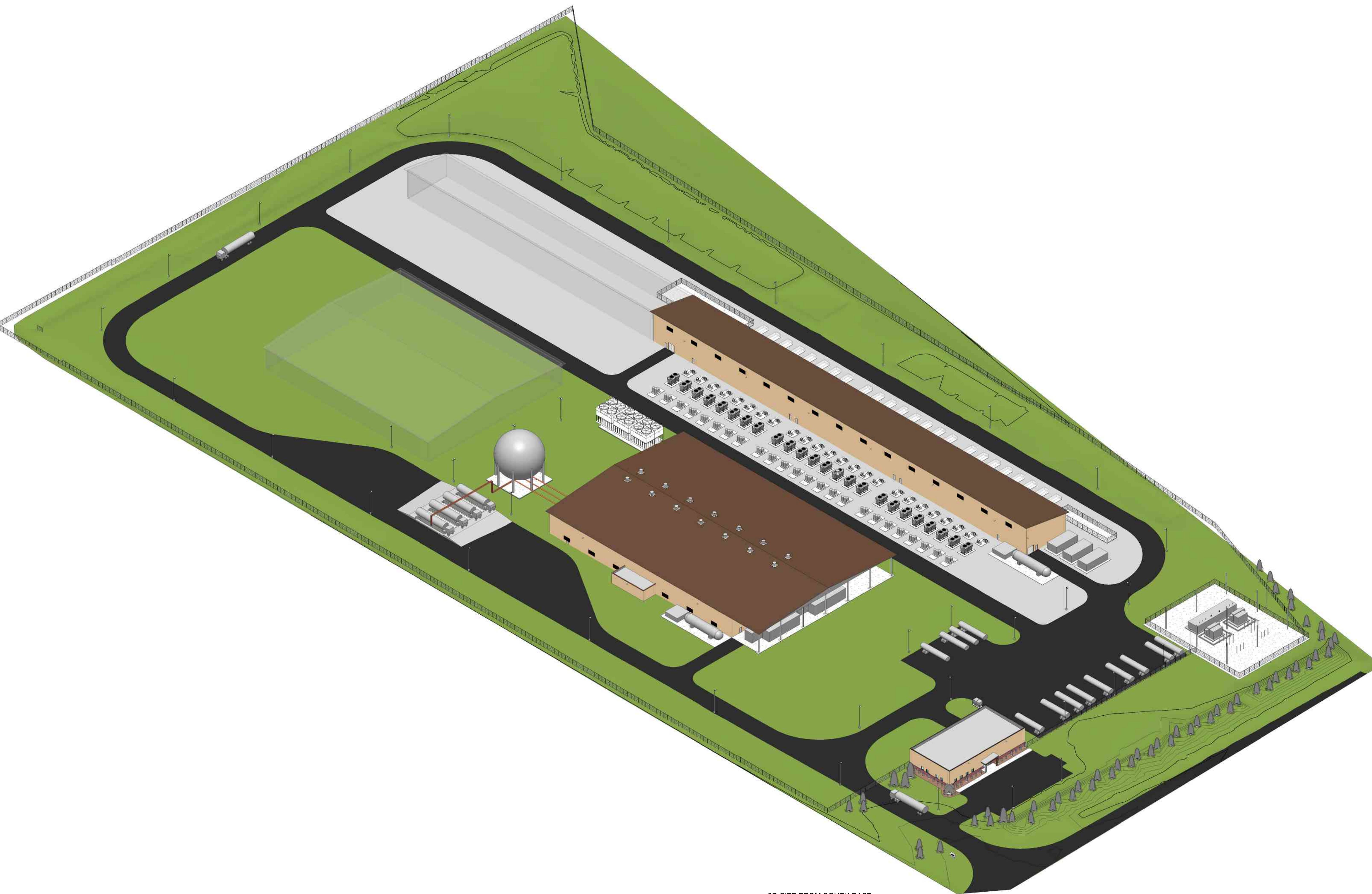
SHEET TITLE
3D SITE FROM NORTH WEST

PROJECT NUMBER
2021-001

PLOT DATE
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SHEET

A4



1 3D SITE FROM SOUTH EAST
SCALE:



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SHEET TITLE
3D SITE FROM SOUTH EAST

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SHEET

A5