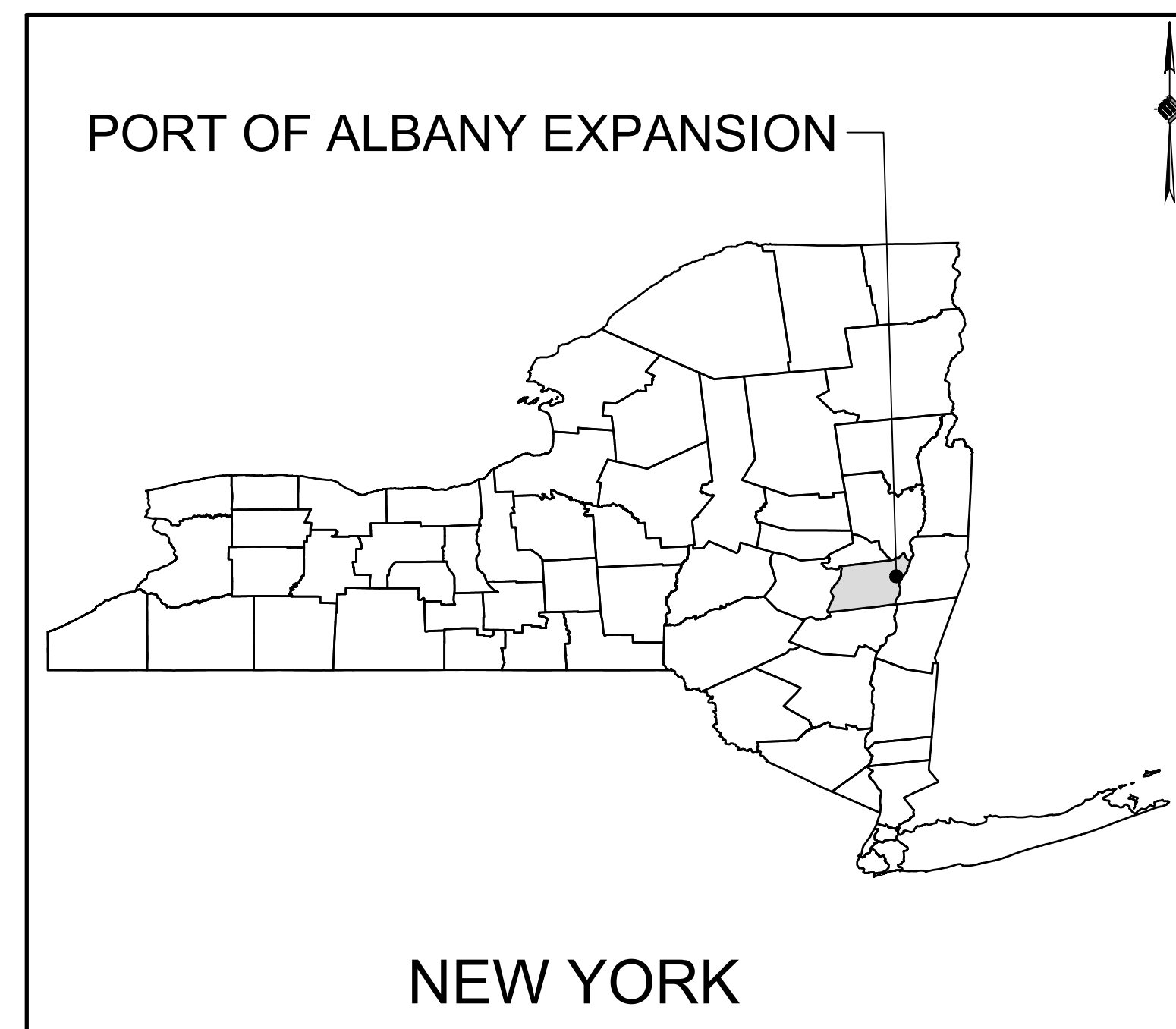


ALBANY PORT DISTRICT COMMISSION

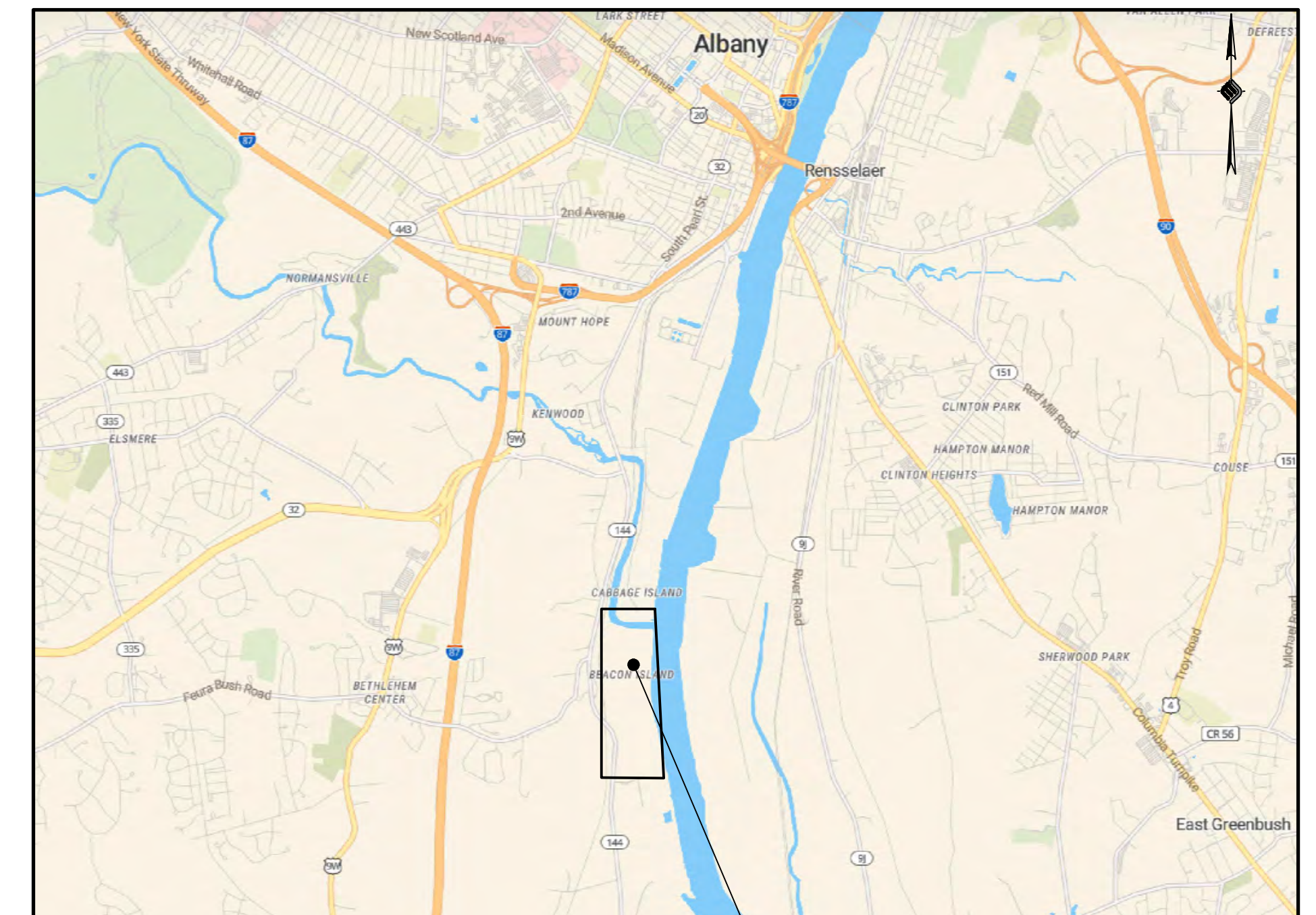
PORT OF ALBANY EXPANSION SITE



LOCATION MAP

FINAL DESIGN PLANS

MAY 10, 2022
(REVISED 06-17-2022)
TOWN OF BETHLEHEM
ALBANY COUNTY
NEW YORK



VICINITY MAP

PREPARED FOR:



ALBANY PORT DISTRICT COMMISSION
106 SMITH BOULEVARD
ALBANY, NEW YORK
(518) 463-8763
WWW.ALBANY.GOV

PREPARED BY:



McFARLAND JOHNSON PROJECT # 18641.00

PLANNING BOARD HTE# 21-00100006

SEALED _____ ADAM J. FROSINO _____
PE_NO _____ 088870 _____
PE_DATE MAY 10, 2022 (REVISED 06-17-2022) _____



IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

N:\BIDD\05 ALBANY PORT EXPANSION\DRAWINGS\GENERAL NOTES\GENERAL NOTES.DWG

GENERAL NOTES:

1. THE UNDERGROUND STRUCTURES AND UTILITIES SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM A SURVEY PREPARED BY MASER CONSULTING P.A. 18 COMPUTER DRIVE EAST SUITE 203, ALBANY, NY 12205, DATED JULY 10, 2018 AND AVAILABLE SURVEYS AND RECORD MAPS BY OTHERS. MCFARLAND JOHNSON DOES NOT CERTIFY TO THE ACCURACY OF THEIR LOCATION AND/OR COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND EXTENT OF ALL UNDERGROUND STRUCTURES AND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION ACTIVITIES IN THEIR VICINITY. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES FIELD STAKED BEFORE STARTING WORK BY CALLING 1-800-962-7962.
2. THE CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH TITLE 29 OF FEDERAL REGULATIONS, PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA).
3. HIGHWAY DRAINAGE ALONG ALL ROADS AND PRIVATE DRIVES SHALL BE KEPT CLEAN OF MUD, DEBRIS ETC. AT ALL TIMES. ALL CATCH BASINS AND STORM SEWER MANHOLES SHALL BE CLEANED PRIOR TO ACCEPTANCE BY THE TOWN.
4. THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER BEFORE DEVIATING FROM THESE PLANS.
5. IN ALL TRENCH EXCAVATIONS, CONTRACTOR MUST LAY THE TRENCH SIDE SLOPES BACK TO A SAFE SLOPE, USE A TRENCH SHIELD OR PROVIDE SHEETING AND BRACING. THE MEANS AND METHODS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER.
6. EXCAVATED WASTE MATERIAL REMOVED FROM THE SITE SHALL BE PLACED AT A LOCATION ACCEPTABLE TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
7. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN A MINIMUM OF 2' OF COVER OVER ALL EXISTING AND NEW STORM SEWER PIPES AND 4' OF COVER OVER ALL SANITARY PIPES DURING CONSTRUCTION.
8. ALL EXISTING SURFACE APPURTENANCES (I.E. WATER VALVES, CATCH BASIN FRAMES AND GRATES, MANHOLE COVERS) WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO FINISHED GRADE. (NO SEPARATE PAYMENT).
9. AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECT'S CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA SHALL BE RESTORED, AT THE CONTRACTORS EXPENSE, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
10. UNLESS COVERED BY THE CONTRACT SPECIFICATIONS OR AS NOTED ON THE PLANS, ALL WORK SHALL CONFORM TO THE LATEST VERSION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND ANY SUBSEQUENT REVISIONS OR ENGINEERING BULLETINS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PERMITS AND PROVIDE ALL BONDS REQUIRED FOR THIS WORK, INCLUDING BUT NOT LIMITED TO UTILITY CONNECTIONS, BUILDING AND SITE CONSTRUCTION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND/OR UTILITY SERVICE COMPANIES. THIS SHALL BE COMPLETED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
13. MAINTENANCE AND PROTECTION OF TRAFFIC ALONG WITH SECURING THE WORK AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. THE CONTRACTOR SHALL LOCATE, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND ROW MONUMENTS IN THE AREAS OF CONSTRUCTION.
15. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND SAFETY PROCEDURES. THE OWNER AND/OR ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB CONTRACTORS OR THEIR AGENTS, EMPLOYEES OR ANY OTHER PERSON PERFORMING ANY OF THE WORK.
16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATION ASSOCIATED WITH THIS PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATION OR APPLICABLE CODES, IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS REPRESENTATIVE IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE OWNERS REPRESENTATIVE SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
17. SEE OFFSITE IMPROVEMENT PLANS FOR ROADWAY, UTILITY AND WORKZONE TRAFFIC CONTROL WORK WITHIN THE NYS DOT R.O.W.
18. SEE BRIDGE PLANS AND NORMANSKILL STREET REHABILITATION PLANS FOR ALL WORK ASSOCIATED WITH THE EXTENSION OF NORMANSKILL TO ACCESS THE SITE.
19. SEE WHARF PLANS FOR ALL WORK ASSOCIATED WITH THE WHARF AND WORK ALONG THE HUDSON RIVER BELOW THE MIHW ELEVATIONS, INCLUDING PROPOSED DREDGING.
20. ALL WORK INCLUDED IN THESE PLANS SUBJECT TO SECTION 128-49 OF THE TOWN ZONING SHALL BE CERTIFIED BY DESIGNATED PROFESSIONALS PURSUANT TO SECTION 128-49(f)(2)(i).
21. ANY GROUND DISTURBANCE WITHIN THE LIMITS OF THE PROPOSED SUBJECT PARCEL SHALL BE PERFORMED IN ACCORDANCE WITH THE SOIL MANAGEMENT PLAN - PORT OF ALBANY EXPANSION PROJECT, BEACON ISLAND PARCEL, BETHLEHEM, ALBANY COUNTY, NEW YORK PREPARED BY ATL DATED "AUGUST 13, 2021".

SEQUENCE OF CONSTRUCTION

1. HOLD A PRE-CONSTRUCTION MEETING WITH PROJECT MANAGER, OPERATOR'S ENGINEER, CONTRACTORS & SUB-CONTRACTORS, AND REPRESENTATIVES OF THE TOWN OF BETHLEHEM (MS4) PRIOR TO LAND DISTURBING ACTIVITIES.
2. HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS DESCRIBED IN THE SWPPP AS REQUIRED BY THE GP-0-20-001 HAVE BEEN ADEQUATELY INSTALLED OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR THE COMMENCEMENT OF CONSTRUCTION.
3. CONSTRUCT TEMPORARY STABILIZED CONSTRUCTION ENTRANCE AT LOCATION SHOWN ON THE DRAWINGS.
4. INSTALL PERIMETER CONTROLS AND INLET PROTECTION AT THE LOCATIONS SHOWN ON THE DRAWINGS.
5. CONSULT A QUALIFIED PROFESSIONAL TO PERFORM A SITE INSPECTION AND VERIFY THAT THE INITIAL PHASE OF EROSION CONTROL DEVICES HAVE BEEN INSTALLED PER THE DRAWINGS PRIOR TO COMMENCEMENT OF GROUND DISTURBANCE.
6. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL ONLY BE DONE IN AREAS WHERE EARTHWORK WILL BE PERFORMED.
7. STRIP AND STOCKPILE TOPSOIL, INSTALL PERIMETER EROSION CONTROL AROUND STOCKPILES, SEED AND MULCH PER PLANS.
8. COMMENCE EARTHWORK CUTS AND FILLS. WORK SHALL BE PROGRESSED TO ALLOW A REASONABLE TRANSFER OF CUT AND FILL FOR ROUGH GRADING AND EARTH MOVING FOR BULK SITE GRADING.
9. STABILIZE ALL AREAS IDLE IN EXCESS OF 7 DAYS IN WHICH CONSTRUCTION WILL NOT COMMENCE WITHIN 7 DAYS.
10. ADJUST THE EROSION AND SEDIMENT CONTROL PRACTICES AS REQUIRED FOR CONTINUING CONSTRUCTION AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN. THIS SHALL BE A PHASED ADJUSTMENT IN ORDER TO ENSURE THAT RUNOFF FROM ALL DISTURBED AREAS IS TREATED BY APPROPRIATE EROSION AND SEDIMENT CONTROL DEVICES.
11. BEGIN UTILITY INSTALLATION AND BACKFILL. UTILITY INSTALLATION AREA SHALL BE STABILIZED WITH SEED AND MULCH PROGRESSIVELY AT THE END OF EACH WORK DAY.
12. CONSTRUCT CATCH BASINS, AREA INLETS AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS.
13. INSTALL INLET/OUTLET PROTECTION PROGRESSIVELY AS THE STORM SEWER IS INSTALLED.
14. AS LAWN AREAS ARE BROUGHT TO GRADE, STABILIZE WITH TOPSOIL, SEED AND MULCH PER SPECIFICATIONS.
15. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
16. INSTALL ASPHALT SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
17. CARRY OUT ALL FINAL GRADING, STABILIZE SLOPES GREATER THAN 3H:1V WITH HEIGHTS EXCEEDING 5 FEET WITH EROSION CONTROL MATTING/BLANKETS, AND SEED AND MULCH ALL DISTURBED AREAS.
18. A QUALIFIED PROFESSIONAL SHALL PERFORM A SITE ASSESSMENT TO CONFIRM THAT ALL PERMANENT STORMWATER DEVICES HAVE BEEN INSTALLED PER PLANS AND 80% UNIFORM GERMINATION/STABILIZATION HAS BEEN ACHIEVED PRIOR TO THE REMOVAL OF ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROLS.

NATIONAL GRID NOTES:

THESE NOTES APPLY FOR ALL WORK WITHIN NATIONAL GRID PROPERTY. REFERENCE THE LICENSE AGREEMENT BETWEEN NATIONAL GRID AND THE ALBANY PORT DISTRICT COMMISSION WHICH CONTAINS THE FULL CONTENT OF ALL THE TERMS AND CONDITIONS FOR ACCESS AND ANY WORK WITHIN NATIONAL GRID PROPERTY. THIS DOCUMENT SHALL BE REVIEWED BY ANY CONTRACTOR PERFORMING WORK WITHIN THE NATIONAL GRID PROPERTY.

1. A CONSTRUCTION ACCESS AND WORK PLAN FOR ALL WORK TO BE COMPLETED ON THE NATIONAL GRID PROPERTY SHALL BE PROVIDED DURING THE BIDDING PROCESS AND APPROVED BY NATIONAL GRID PRIOR TO COMMENCEMENT OF ANY WORK TAKING PLACE WITHIN NATIONAL GRID PROPERTY. AT A MINIMUM THIS PLAN SHALL INCLUDE SPECIFICATION FOR THE PROPOSED EQUIPMENT TO BE USED TO COMPLETE THE WORK AND ACCESS ROUTES NECESSARY TO ALL WORK AREAS.
2. DURING CONSTRUCTION, EQUIPMENT SHALL CROSS OVER UNDERGROUND UTILITIES ONLY AS DESIGNATED AREAS. A LIST OF EQUIPMENT TO CROSS THESE AREAS SHALL BE PROVIDED TO NATIONAL GRID FOR REVIEW TO DETERMINE IF ANY STEEL PLATING AND/OR AIR BRIDGING WILL BE REQUIRED TO PREVENT DAMAGE TO THE EXISTING UNDERGROUND UTILITIES.
3. NATIONAL GRID RESERVES THE RIGHT TO HAVE THERE OWN INSPECTOR OVERSEE ANY WORK PERFORMED ON NATIONAL GRID PROPERTY. NATIONAL GRID AND THEIR CONTRACTORS SHALL HAVE UNRESTRICTED ACCESS TO NATIONAL GRID CORRIDOR.
4. ALL EXCAVATION ON NATIONAL GRID PROPERTY SHALL BE OSHA COMPLIANT.
5. NO TEMPORARY STOCKPILING OF MATERIAL IN THE NATIONAL GRID CORRIDOR IS ALLOWED.
6. TRUCKS ARE NOT ALLOWED TO STOP IN THE NATIONAL GRID CORRIDOR TO UNLOAD, LOAD, INSTALL OR REMOVE TARPS. ABSOLUTELY NO INSTALLATION OF REMOVAL OF STRAPS UNDER CONDUCTORS.
7. IF IN THE NATIONAL GRID CORRIDOR A WIRE IS DISCOVERED, NOTIFY NATIONAL GRID ASAP AS THIS COULD BE PART OF A GROUNDING SYSTEM BETWEEN STRUCTURES. DO NOT TOUCH - TREAT AS ENERGIZED.
8. ANY METALLIC FENCES OR GUIDERAILS PLACED IN THE NATIONAL GRID CORRIDOR SHALL BE GROUNDED IN ACCORDANCE WITH NATIONAL GRID REQUIREMENTS.
9. THE CONTRACTOR WILL BE REQUIRED TO:

9.1. CONDUCT A PLANNING MEETING WITH THE OPERATOR AND THE OTHER WORKERS WHO WILL BE IN THE AREA OF THE EQUIPMENT OR LOAD TO REVIEW THE LOCATION OF THE POWER LINES, AND THE STEPS THAT WILL BE IMPLEMENTED TO PREVENT ENCROACHMENT/ELECTROCUTION

9.2. INSTALL A NON-CONDUCTIVE ELEVATED WARNING LINE OR BARRICADE ("GOAL POST") EQUIPPED WITH FLAGS OR SIMILAR VISIBILITY MARKINGS AT 15-FT FROM CONDUCTORS

9.3. REFER TO NATIONAL GRID "SAFETY PROCEDURE - CONTRACTOR SAFETY REQUIREMENTS" ON THE NATIONAL GRID WEBSITE FOR THE LATEST VERSION.

NATIONAL GRID NOTES (CONTINUED):

- 9.4. PROVIDE A DEDICATED ELECTRICALLY QUALIFIED SPOTTER WHO IS CONTINUOUSLY IN CONTACT WITH OPERATOR. AN ELECTRICALLY QUALIFIED SPOTTER MUST BE TRAINED AND COMPETENT IN THE FOLLOWING:
 - THE SKILLS AND TECHNIQUES NECESSARY TO DISTINGUISH EXPOSED LIVE PARTS OF ELECTRICAL EQUIPMENT
 - THE SKILLS AND TECHNIQUES NECESSARY TO DETERMINE THE NOMINAL VOLTAGE OF EXPOSED LIVE PARTS
 - THE MAD SPECIFIED IN 1910.269 CORRESPONDING TO THE VOLTAGES TO WHICH THE QUALIFIED EMPLOYEE WILL BE EXPOSED
 - THE PROPER USE OF SPECIAL PRECAUTIONARY TECHNIQUES, PERSONAL PROTECTIVE EQUIPMENT, INSULATION AND SHIELDING MATERIALS AND INSULATED TOOLS FOR WORKING ON OR NEAR EXPOSED ENERGIZED PART OF ELECTRICAL EQUIPMENT
 - REFER TO THE NATIONAL GRID WEBSITE UNDER CONTRACTOR SAFETY REQUIREMENTS FOR ADDITIONAL GUIDANCE ON SPOTTER/WORKER REQUIREMENTS AND OTHER SAFETY PROCEDURES.
10. CONTRACTOR SHALL NOT STORE, MIX, OR LOAD ANY PETROLEUM PRODUCTS, PESTICIDES, HAZARDOUS MATERIALS, OR CHEMICALS LABELED TOXIC ON NATIONAL GRID'S ROW AND NO REFUELING OF VEHICLES OR EQUIPMENT WILL BE ALLOWED ON NATIONAL GRID'S ROW.
11. NO EXCAVATION SPOILS, SOIL, CONSTRUCTION DEBRIS, OR MATERIALS OF ANY KIND ARE TO BE REMOVED FROM NATIONAL GRID'S ROW WITHOUT PRIOR NOTIFICATION AND APPROVAL FROM NATIONAL GRID.

TOWN OF BETHLEHEM SEQRA NOTES:

1. CONTRACTOR SHALL ENSURE CONFORMANCE WITH THE TOWN'S NOISE ORDNANCE. THIS INCLUDES BUT IS NOT LIMITED TO TAKING NOISE READINGS ON A REGULAR BASIS AT THE PROPERTY LINE AND PROVIDING DOCUMENTATION OF NOISE LEVELS. SHOULD NOISE LEVEL EXCEED THE TOWN'S ORDINANCE REQUIREMENTS, IT IS THE CONTRACTORS RESPONSIBILITY TO MODIFY THEIR MEANS AND METHODS TO REDUCE THE NOISE LEVELS AND/OR PROVIDE MITIGATION TO REDUCE THE NOISE LEVEL TO VALUES WITHIN THE TOWN REQUIREMENTS.
2. THE CONTRACTOR SHALL PREPARE A COMMUNITY AIR MONITORING PLAN (CAMP) PURSUANT TO THE NYSDEC DER 10. SEE PAGES 211-216 FOR GUIDANCE ON THE CONTENT OF THE CAMP. IN ADDITION THE CAMP SHALL COMPLY WITH SECTION 4.3 OF THE SITE'S SOIL MANAGEMENT PLAN WHICH IS PROVIDED AS APPENDIX H IN THE STORM WATER POLLUTION PREVENTION PLAN.

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PLANNING BOARD HTE# 21-00100006



McFarland Johnson
60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



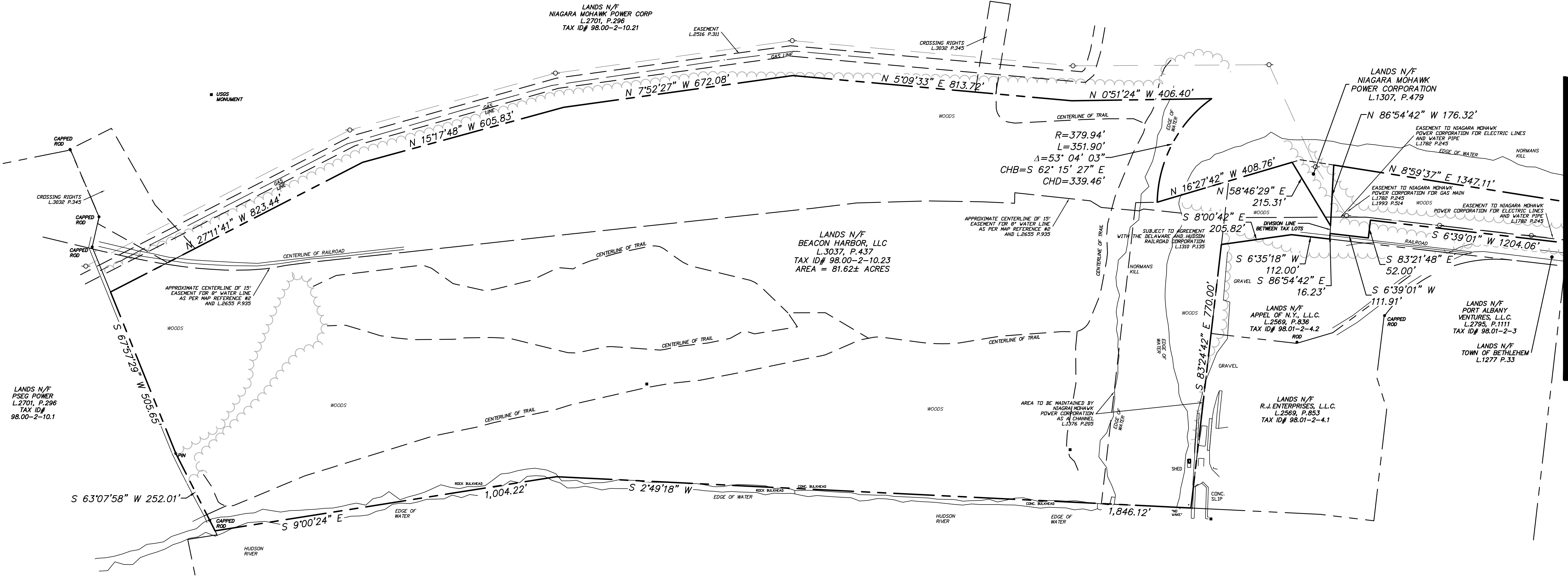
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE

GENERAL NOTES

DRAWING NUMBER

GN-01



RECORD DESCRIPTION

Commencing at a Point at the southwesterly property corner of lands now or formerly of OG Real Estate Development, LLC (Bk.2703, Pg. 757) at its intersection with the division line between lands now or formerly of Niagara Mohawk Power Corp. (Bk.1265 Pg.75) on the west and lands now or formerly of PSEG Power New York, Inc. (Bk. 2655, Pg. 935) on the south; thence along said division line between the aforementioned OG Real Estate Development, LLC on the east and the aforementioned Niagara Mohawk Power Corp. on the west the following five (5) courses and distances:

1. North 27°13'40" West, 823.44 feet to a point; thence
2. North 51°19'47" West, 605.83 feet to point; thence
3. North 07°54'26" West, 672.08 feet to a point; thence
4. North 05°07'34" East, 813.72 feet to a point; thence
5. North 00°53'23" West, 406.40 feet to a point in the division line between lands of the State of New York (Normans Kill) and lands of the aforementioned OG Real Estate Development, LLC; thence along said division line the following two (2) courses and distances:

1. along an arc to the left having a central angle of 53°03'33", a radius of 380.00 feet and an arc length of 351.90 feet, chord bearing South 62°17'26" East, 339.46 feet to a point; thence
2. North 16°25'41" West, 408.76 feet to a point in the common division line between other lands now or formerly of Niagara Mohawk Power Corp. on the west and lands of the aforementioned OG Real Estate Development, LLC on the east; thence along said division line the following two (2) courses and distances:

1. North 58°44'30" East, 215.31 feet to a point; thence
2. North 86°56'41" West, 176.32 feet to a point in the common division line between lands of the aforementioned State of New York (Normans Kill) on the west and other lands now or formerly of OG Real Estate Development, LLC (Bk. 2905, Pg. 204) on the east; thence along said common division line the following three (3) courses and distances:

1. North 08°57'38" East, 1347.11 feet to a point; thence
2. North 22°21'38" East, 586.00 feet to a point; thence
3. North 17°30'19" West, 711.96 feet to a point in the westerly road boundary of South Port Road; thence along said westerly and also southerly road boundary the following five (5) courses and distances:

1. along an arc to the right having a central angle of 13°05'31", a radius of 452.35 feet and an arc length of 103.36 feet to a point; thence
2. South 17°30'19" West, 711.96 feet to a point of curvature; thence
3. along an arc to the left having a central angle of 10°53'17", a radius of 633.69 feet and an arc length of 120.42 feet to a point; thence
4. South 06°37'02" West, 1204.06 feet to a point; thence
5. South 83°23'47" East, 52.00 feet to a point in the westerly boundary of the D & H Railroad; thence along said westerly boundary and also the southerly boundary of said D & H Railroad the following two (2) courses and distances:

1. South 06°37'02" West, 111.91 feet to a point; thence
2. South 86°56'41" East, 16.23 feet to a point in the easterly boundary line of lands of the aforementioned OG Real Estate Development, LLC (Bk. 2703, Pg. 757); thence along said easterly boundary line the following three (3) courses and distances:

1. South 06°33'19" West, 112.00 feet to a point; thence
2. South 08°02'41" East, 205.82 feet to a point; thence
3. South 83°26'41" East, 770.00 feet to a point along the Hudson River; thence along said Hudson River the following two (2) courses and distances:

1. South 02°47'19" West, 1846.12 feet to a point; thence
2. South 09°02'23" East, 1004.22 feet to a point in the common division line between lands of the aforementioned PSEG Power New York, Inc. on the south and lands of the aforementioned OG Real Estate Development, LLC on the north; thence along said common division line the following two (2) courses and distances:

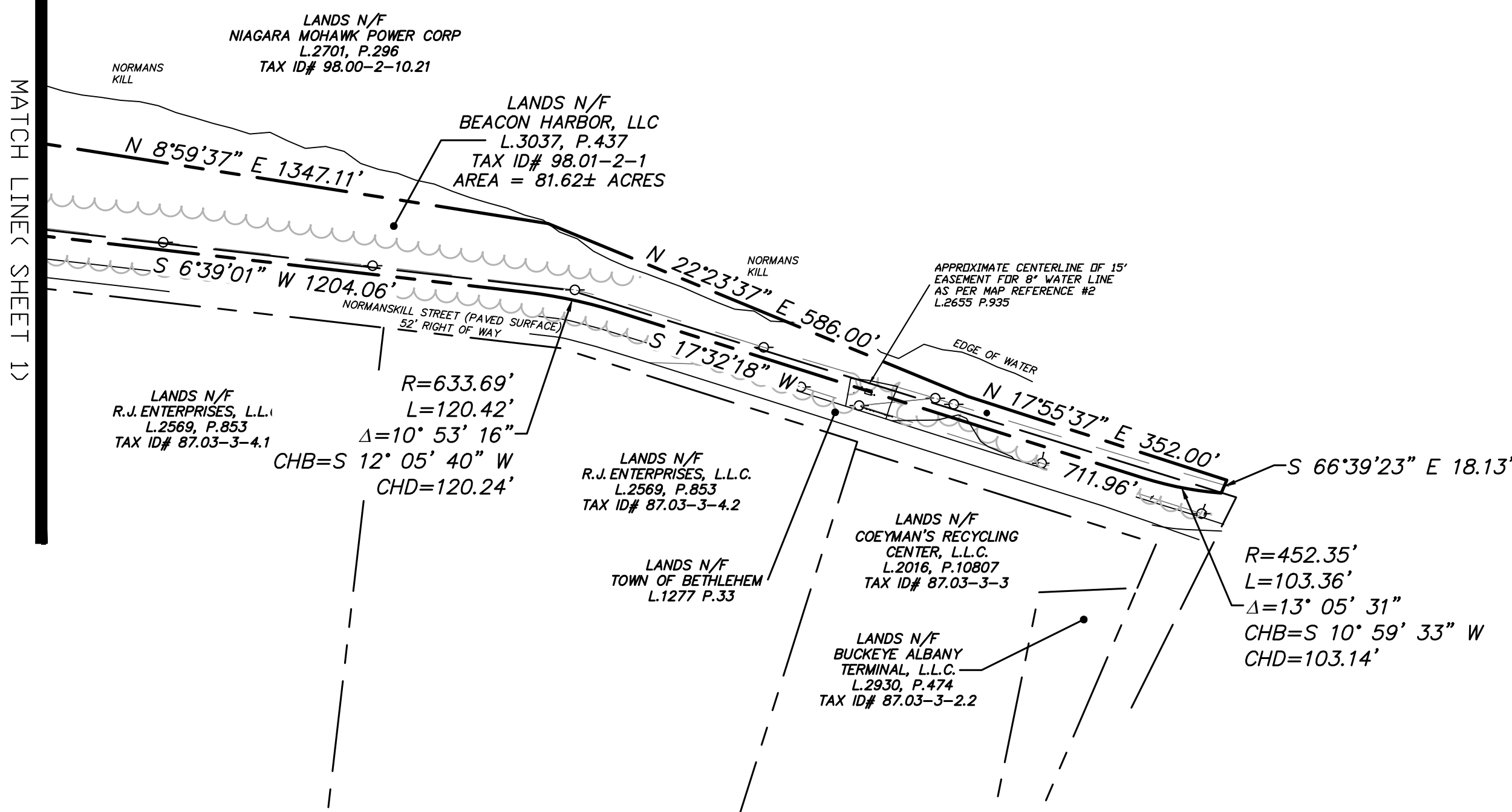
1. South 63°05'59" West, 252.01 feet to a point; thence
2. South 67°50'30" West, 505.65 feet to the Point or Place of Beginning.

MAP REFERENCES:

1. MAP ENTITLED "ALTA/ACSM LAND TITLE SURVEY (URBAN CLASS) FOR ALBANY STEAM STATION, LANDS TO BE CONVEYED TO PSEG POWER NEW YORK INC., PREPARED BY NIAGARA MOHAWK POWER CORPORATION, DATED DECEMBER 06, 1999, LAST REVISED MARCH 13, 2000.
2. MAP ENTITLED "ALBANY STEAM STATION SERVICE WATER LINE GENERAL PLAN AND PROFILE" BY PREPARED BY NIAGARA MOHAWK POWER CORPORATION, DATED MAY 15, 1992 AND LAST REVISED JUNE 27, 1989.
3. MAP ENTITLED "BOUNDARY SURVEY SHOWING LANDS N/F OF OG REAL ESTATE DEVELOPMENT, LLC" BY WSP S&S, DATED SEPTEMBER 16, 2009.

GENERAL NOTES:

1. UNDERGROUND UTILITIES SHOWN HEREON BASED ON UTILITY EVIDENCE VISIBLE AT GROUND SURFACE AND RECORD DRAWINGS AND ARE SUBJECT TO FIELD VERIFICATION BY EXCAVATION. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES.
2. THE OFFSETS OR DIMENSIONS SHOWN HEREON, FROM THE PROPERTY LINES TO THE STRUCTURES, ARE FOR A SPECIFIC PURPOSE AND USE; THEREFORE, THEY ARE NOT INTENDED TO MONUMENT THE PROPERTY LINES OR TO GUIDE THE ERECTION OF FENCES, ADDITIONAL STRUCTURES OR ANY OTHER IMPROVEMENTS.
3. EASEMENTS AND/OR SUBSURFACE STRUCTURES RECORDED OR UNRECORDED ARE NOT GUARANTEED UNLESS PHYSICALLY EVIDENT ON THE PREMISES AT THE TIME OF THE SURVEY.
4. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS AND RESTRICTIONS OF RECORD.
5. BASIS OF BEARING IS NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE. CONTROL WAS ESTABLISHED USING NYSNET VRS SYSTEM. THE HORIZONTAL DATUM IS RELATIVE TO NAD83
6. THE VERTICAL POSITION OF THE HEREIN SURVEY IS BASED ON THE STATIC GPS OBSERVATIONS AND IS SUBJECT TO FURTHER ADJUSTMENT TO ANY LOCAL NGS BENCHMARKS. THE VERTICAL DATUM IS RELATIVE TO NAVD 1988 VIA THE APPLICATION OF GEOID MODEL 12B.
7. NO EVIDENCE OF RECENT EARTH MOVING WORK BUILDING CONSTRUCTION, OR BUILDING ADDITIONS WERE OBSERVED IN THE PROCESS OF CONDUCTING FIELDWORK.
8. NO WETLAND DELINEATION OBSERVED IN THE PROCESS OF CONDUCTING FIELDWORK.



12+00

13+00

TRAVERSE LINE, CENTER LINE OR BASELINE

RIGHT OF WAY LINE

PROPERTY LINE

EDGE OF PAVEMENT

CURB LINE

DEPRESSED CURB

CHAIN FENCE

WETLAND LINE

MUNICIPAL BOUNDARY

FREEZE LINE

WATER MANHOLE

TELEPHONE MANHOLE

UNMARKED MANHOLE

SANITARY MANHOLE

DRAINAGE MANHOLE

MAJOR CONTOUR

MINOR CONTOUR

SPOT ELEVATION

TOP OF CURB ELEV.

BOTTOM OF CURB ELEV.

U/G CABLE TV LINE

U/G FIBER OPTIC LINE

U/G TELEPHONE LINE

U/G ELECTRIC LINE

OVERHEAD WIRE

WATER MAIN

GAS MAIN

SAN. SEWER LATERAL

SAN. SEWER MAIN

STORM PIPE

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McFarland Johnson
60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00

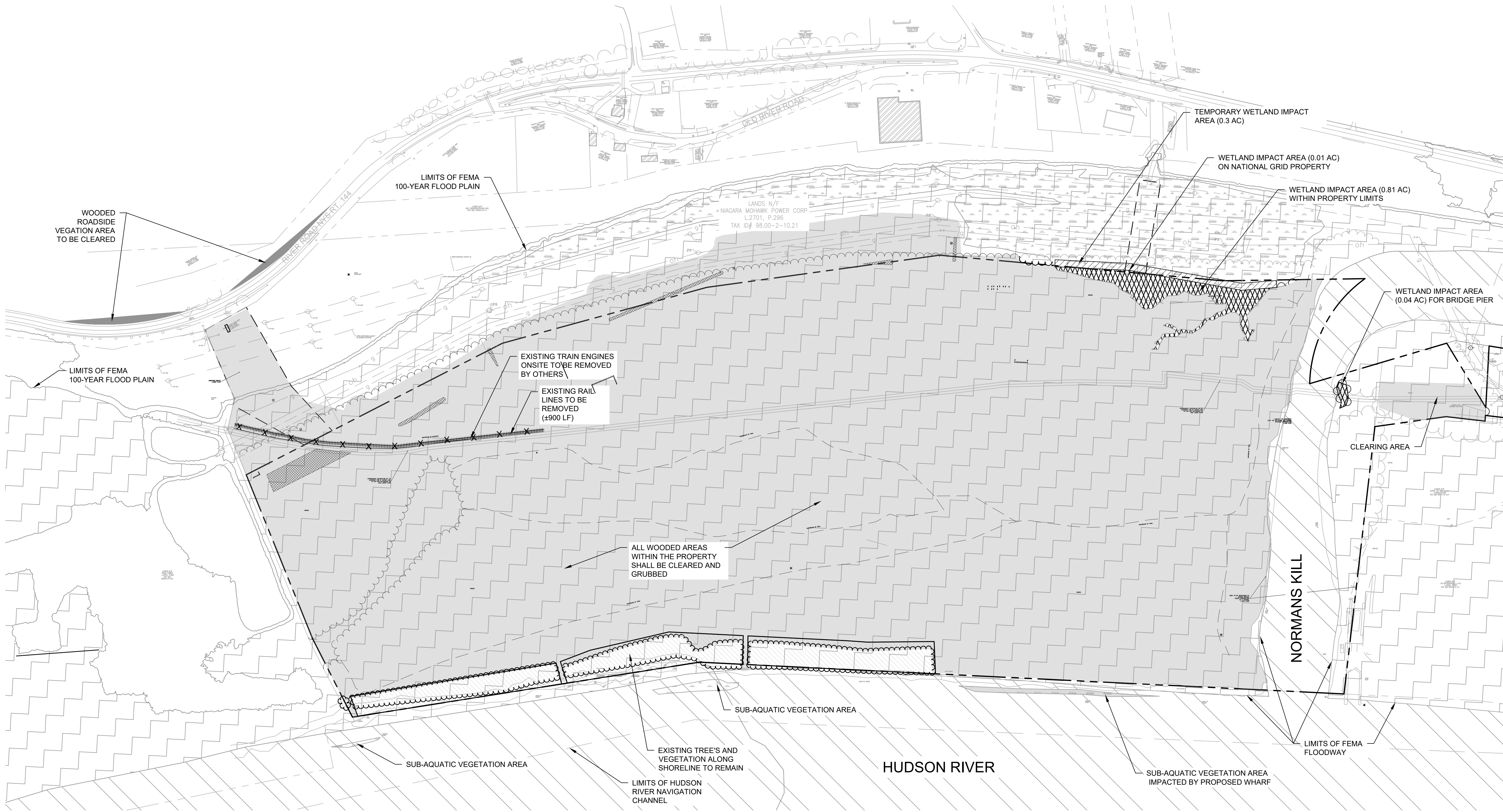


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE
EXISTING CONDITION & DEMOLITION PLANS

DRAWING NUMBER

DE-01



DEMOLITION LEGEND

TREE CLEARING AREA	
EXISTING TREE LINE	
PROPOSED TREE LINE	
EXIST. CROSSING RIGHTS	
PROPERTY LINE	
ABANDONED WATER LINE DEMO	
CENTERLINE OF EXIST. RAIL LINE	
RAIL LINE DEMO	
EXIST. WETLAND AREA	
EXIST. WETLAND AREA TO BE IMPACTED	
TEMPORARY WETLAND IMPACT AREA	
EXIST. SUBMERGED AQUATIC VEGETATION AREA TO BE IMPACTED	
FEMA 100-YEAR FLOODPLAIN	
FEMA FLOODWAY	

PLANNING BOARD HTE# 21-00100006





McFarland Johnson
60 RAILROAD PLACE
SUITE 402
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P:518-580-9380 F:518-580-9383
SaratogaROM@mjinco.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
2	06/06/22	TOWN COMMENTS
3	06/17/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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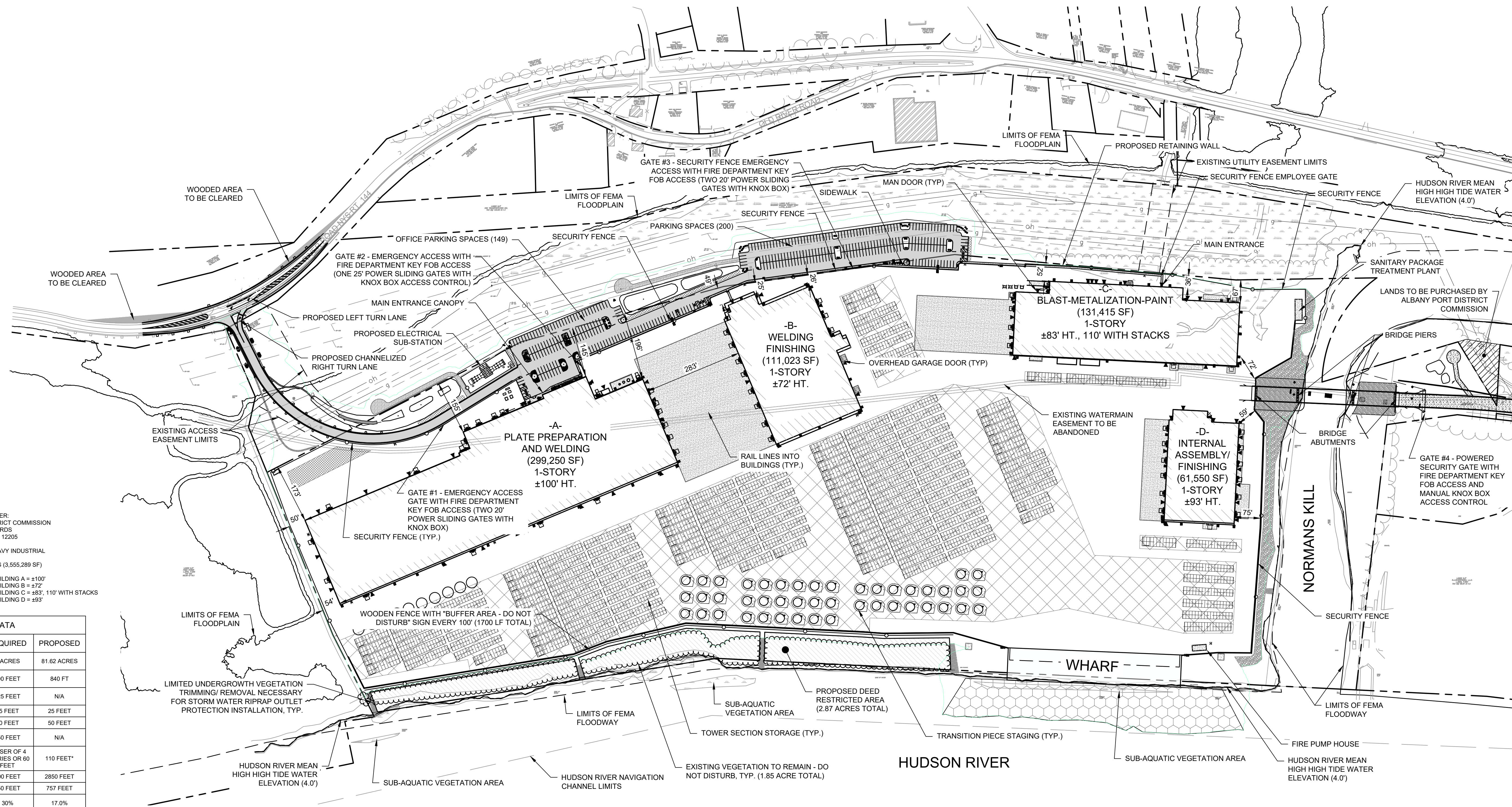
DRAWING TITLE

SITE PLAN OVERALL

DRAWING NUMBER

SP-00

4 OF 69



PROJECT DATA

1. APPLICANT / LAND OWNER:
ALBANY PORT DISTRICT COMMISSION
105 SMITH BOULEVARDS
ALBANY, NEW YORK 12205
2. EXISTING ZONING: HEAVY INDUSTRIAL
3. LOT AREA: 81.62 ACRES (3,555,289 SF)
4. BUILDING HEIGHT: - BUILDING A = ±100'
- BUILDING B = ±72'
- BUILDING C = ±83', 110' WITH STACKS
- BUILDING D = ±93'

SITE DATA		
FEATURE	REQUIRED	PROPOSED
MINIMUM LOT SIZE, NONRESIDENTIAL	5 ACRES	81.62 ACRES
MINIMUM FRONT YARD, FROM RIGHT-OF-WAY	100 FEET	840 FT
MINIMUM FRONT YARD, FROM CENTER LINE	125 FEET	N/A
MINIMUM SIDE YARD	25 FEET	25 FEET
MINIMUM REAR YARD	50 FEET	50 FEET
MINIMUM HIGHWAY FRONTAGE	150 FEET	N/A
MAXIMUM HEIGHT	LESSER OF 4 STORIES OR 60 FEET	110 FEET*
MINIMUM LOT DEPTH	200 FEET	2850 FEET
MINIMUM LOT WIDTH	150 FEET	757 FEET
MAXIMUM LOT COVERAGE	30%	17.0%

* WILL REQUEST A VARIANCE

ZONING:

EXISTING: ±81.62 ACRES HEAVY INDUSTRIAL

PROPOSED: ±81.62 ACRES HEAVY INDUSTRIAL

TAX ACCOUNT NUMBERS: 98 00-2-10 23
98 01-2-1

* ENTIRE SITE IS WITHIN 100-YR FLOODPLAIN

PARKING:

1 SPACE FOR EACH 2 EMPLOYEES ON MAXIMUM WORKING SHIFT.

TOTAL EMPLOYEES = 550

REQUIRED: 275 TOTAL SPACES REQUIRED

PROVIDED: THE LARGEST SHIFT INCLUDES 180 EMPLOYEES WITH THE LARGEST SHIFT CHANGE INVOLVING 320 EMPLOYEES. INDIVIDUAL BUILDING PARKING DEMANDS FROM MARMEN WELCON HAVE BEEN PROVIDED BELOW:

BUILDING A = 168 SPACES
BUILDING B = 87 SPACES
BUILDING C & D = 100 SPACES TOTAL
TOTAL OPERATOR REQUESTED SPACES = 355
349 TOTAL SPACES PROVIDED

ADA SPACES REQUIRED:
PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

REQUIRED (349 SPACE LOT): 8 SPACES (6 STANDARD & 2 VAN)
FOR TOTAL PARKING 301-400 SPACES

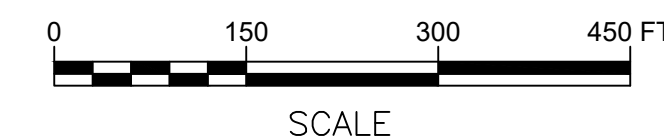
PROVIDED (349 SPACE LOT): 9 SPACES (7 STANDARD & 2 VAN)

PLANNING BOARD HTE# 21-00100006

LEGEND

PROPERTY LINE	---
EASEMENT LIMITS	- - -
DITCH CENTERLINE	- . -
ROADSIDE SWALE	---
BUILDING SETBACK	---
OVERHEAD DOORS	▮
MAN DOORS	◀
EXISTING BUILDING	▨

PROPOSED BUILDING FOOTPRINT	▩
MATERIAL STORAGE AREAS	▩
WETLAND AREA	▩
WHARF DREDGING AREA	▩
PAVEMENT AREA	▩
CONCRETE AREA	▩
RIP-RAP WATER EMBANKMENT STABILIZATION	▩
PROPOSED DEED RESTRICTED AREA	▩



LEGEND

PROPERTY LINE

PROPOSED BOX BEAM GUIDE RAIL

DITCH CENTERLINE

WETLAND AREA

SECURITY FENCE

MAN DOORS
(WITH 5' X 5' CONCRETE LANDING PAD)

OVERHEAD DOORS
(WITH CONCRETE LANDING PAD)

GRADING LIMIT LINE

EXISTING OVERHEAD ELECTRIC

EXISTING GAS LINE

EXISTING WATERLINE

PROPOSED PAVEMENT

PROPOSED CONCRETE

HUDSON RIVER DREDGING

MATERIAL STORAGE AREA

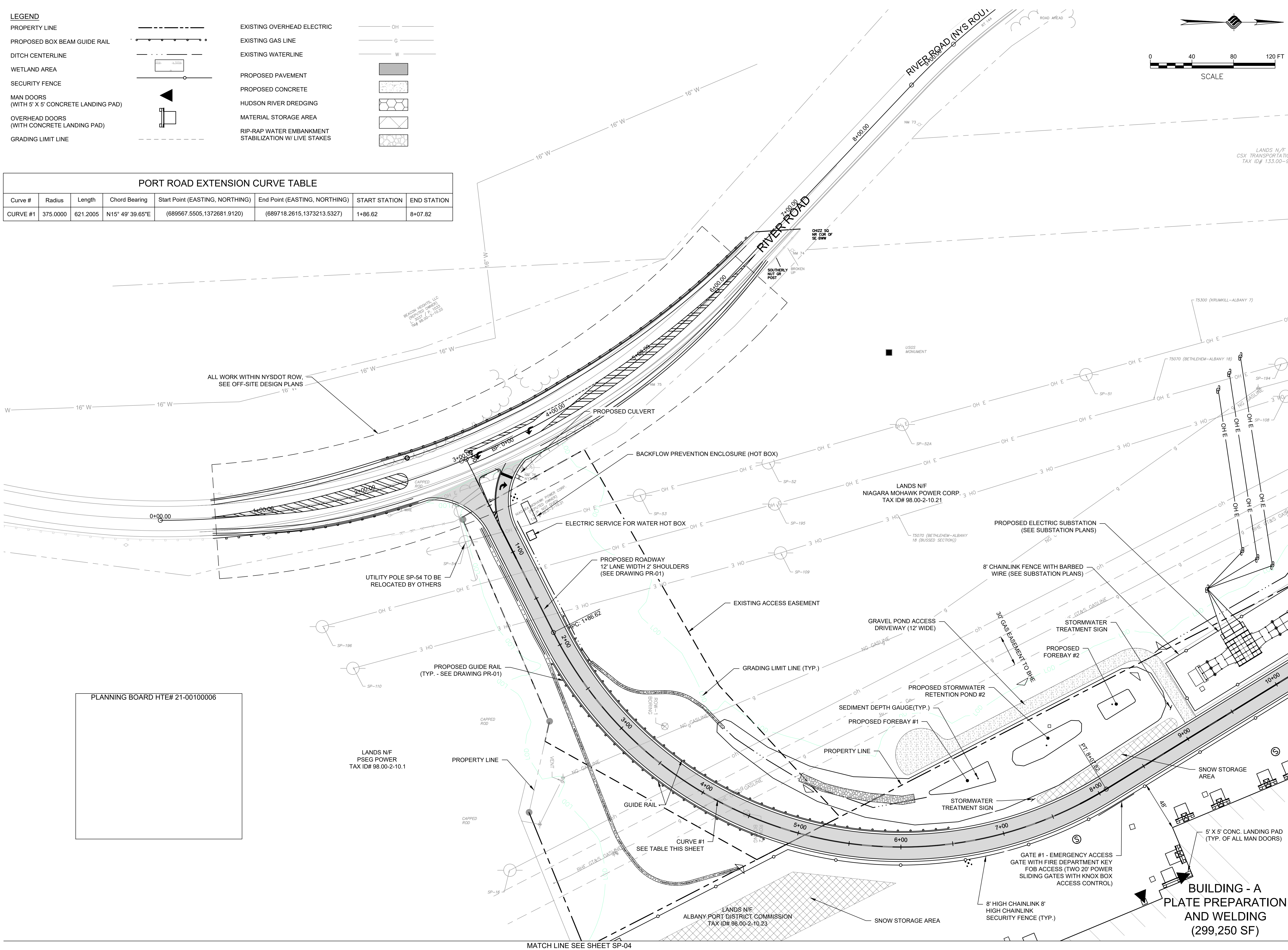
RIP-RAP WATER EMBANKMENT STABILIZATION W/ LIVE STAKES

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PORT ROAD EXTENSION CURVE TABLE						
Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION
CURVE #1	375.0000	621.2005	N15° 49' 39.65"E	(689567.5505, 1372681.9120)	(689718.2615, 1373213.5327)	1+86.62



PLANNING BOARD HTE# 21-00100006

N:\HUB\05 ALBANY PORT EXPANSION\DRAWINGS\DRWG SHEET FILES\HUB 05\ALBANY.DWG

McFarland Johnson

60 RAILROAD PLACE

SUITE 402

SARATOGA SPRINGS, NEW YORK 12866

P:518-580-9380 F:518-580-9383

SaratogaROM@mjinc.com

PROJECT MILESTONE		
FINAL DESIGN PLANS		
NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
3	06/17/22	TOWN COMMENTS

CLIENT:

ALBANY PORT DISTRICT COMMISSION

PROJECT:

ALBANY, NEW YORK

PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00

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DRAWING TITLE

SITE PLAN

DRAWING NUMBER

SP-01

5 OF 69



PROJECT MILESTONE

FINAL DESIGN PLANS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

PORT OF ALBANY EXPANSION SITE

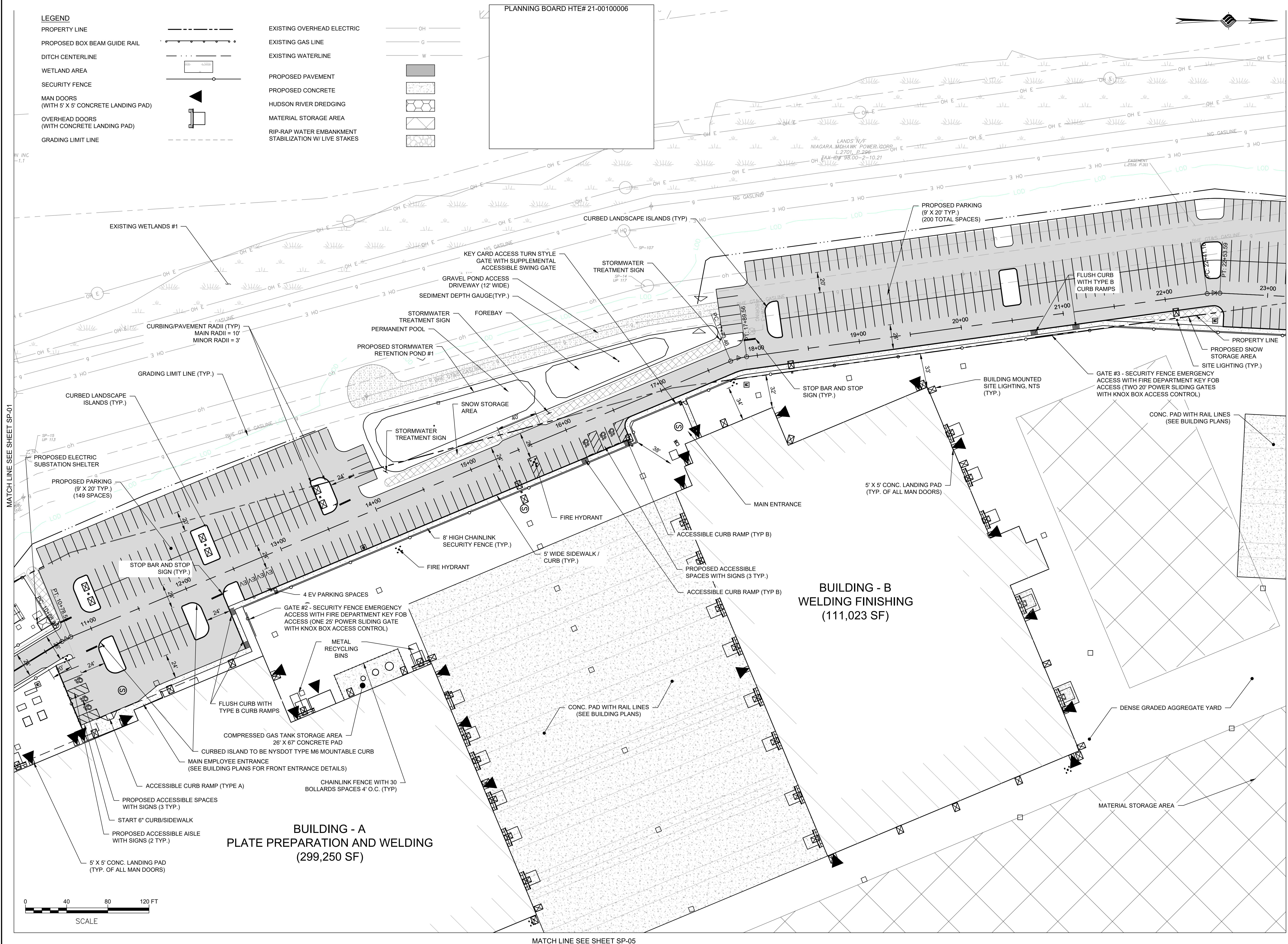
STATE OF NEW YORK
ADAM J FROSINO
088870
LICENSED PROFESSIONAL ENGINEER

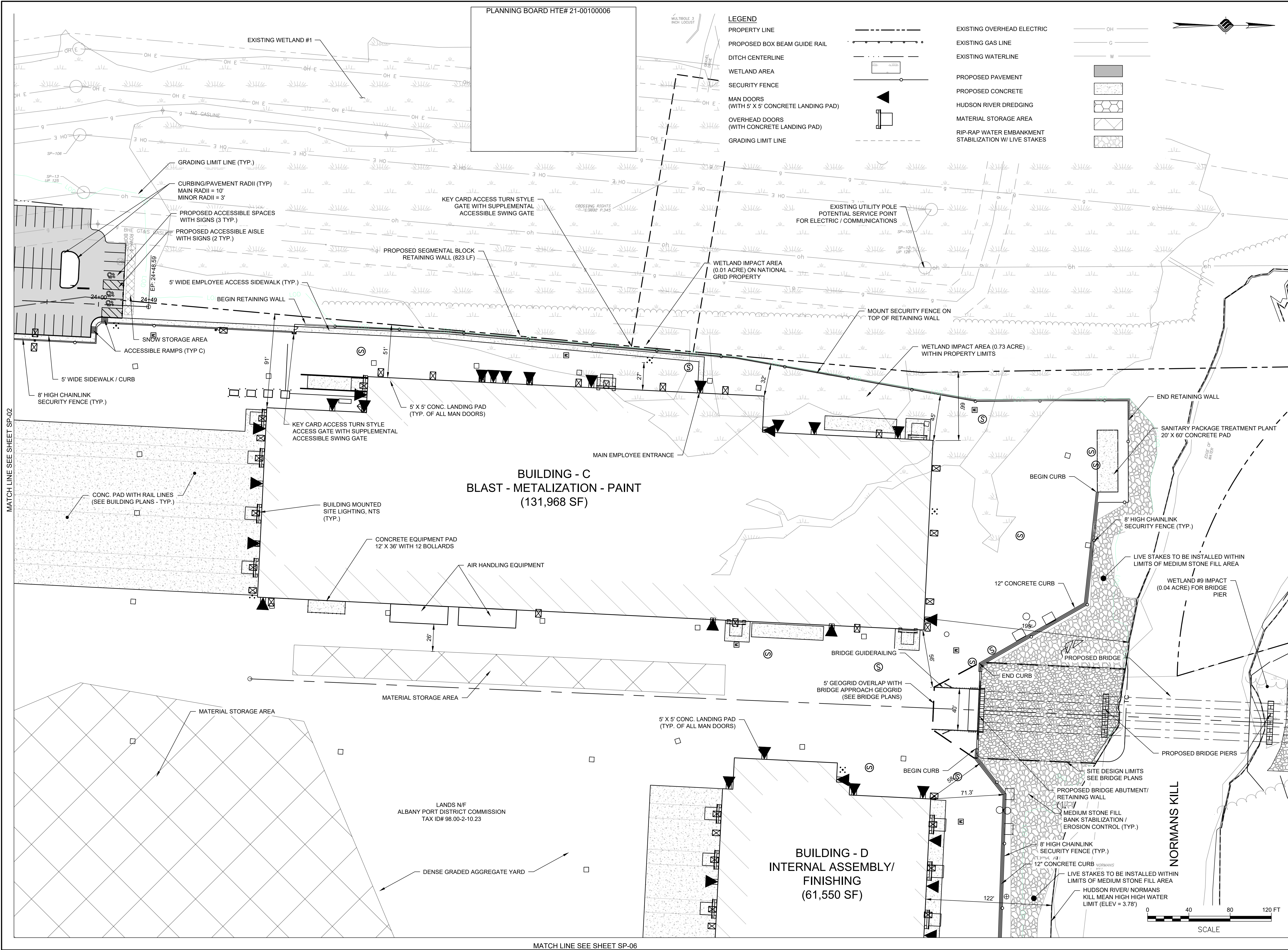
RAWING TITLE

DRAWING NUMBER

SP-02

OF 69





McFarland Johnson
60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
3	06/17/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

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DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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DRAWING TITLE

SITE PLAN

DRAWING NUMBER

SP-03

PROJECT MILESTONE

FINAL DESIGN PLANS

[illegible]

CLIENT.
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PORT OF ALBANY EXPANSION SITE

RAWN	JES
ESIGNED	NSO
CHECKED	AJF
CALE	AS SHOWN
ATE	05/10/2022
ROJECT	18641.00



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WAY. AN ITEM BEARING THE STAMP OF A LICENSED
PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER,
ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR
MUST STAMP THE DOCUMENT AND INCLUDE THE NOTATION
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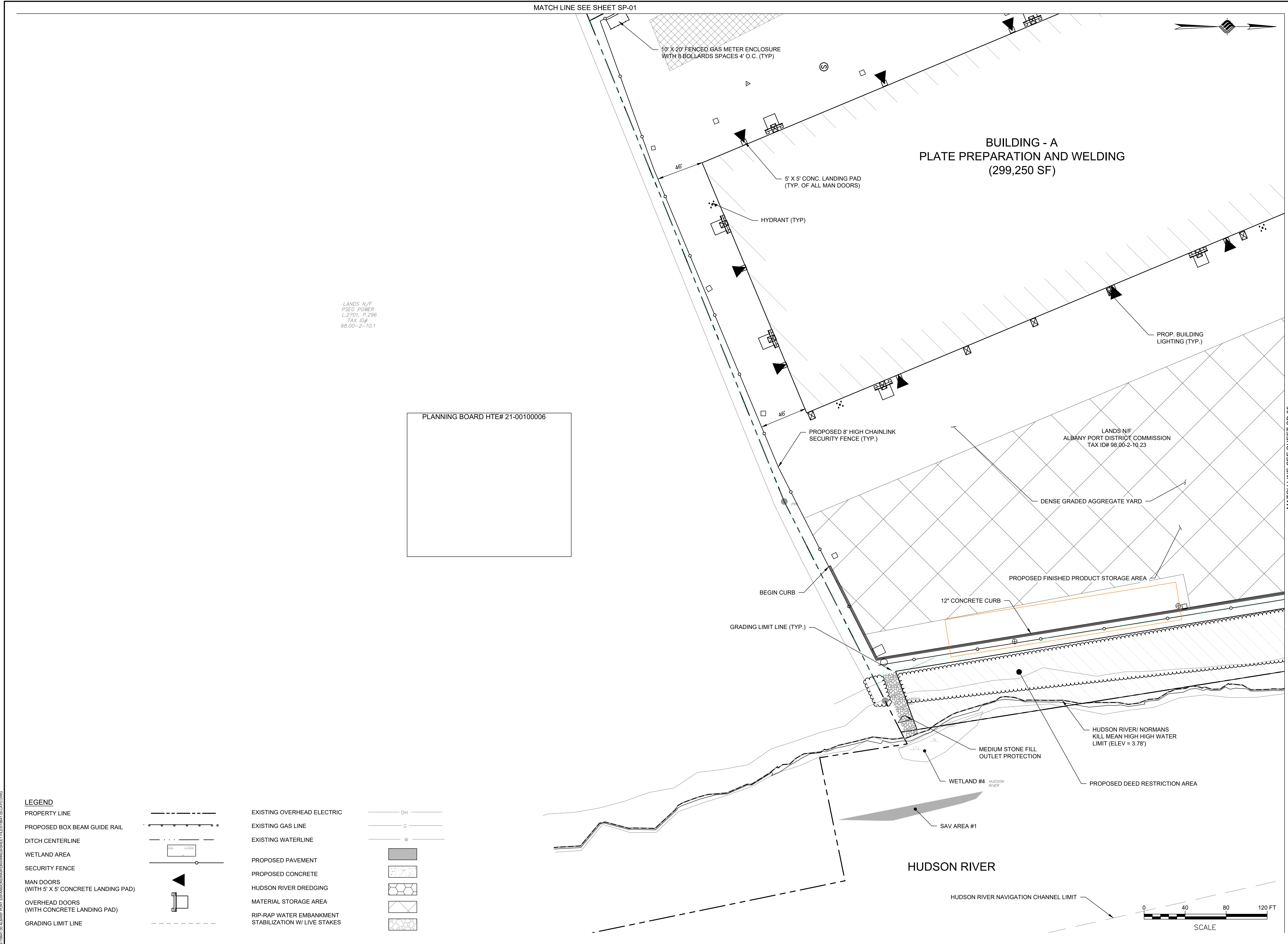
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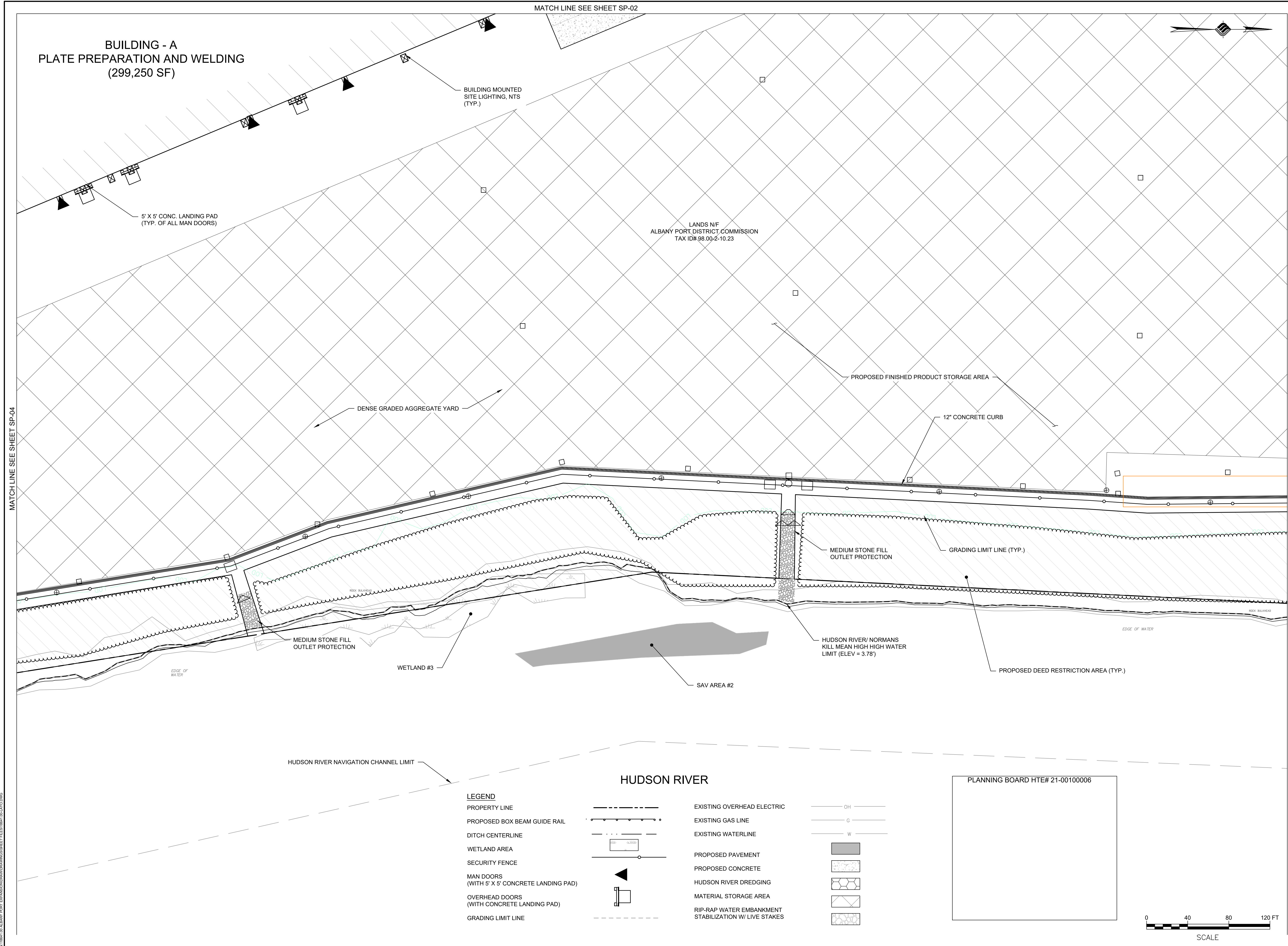
TE PLAN

RAWING NUMBER

SP-04

OF 69





McFarland Johnson
60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



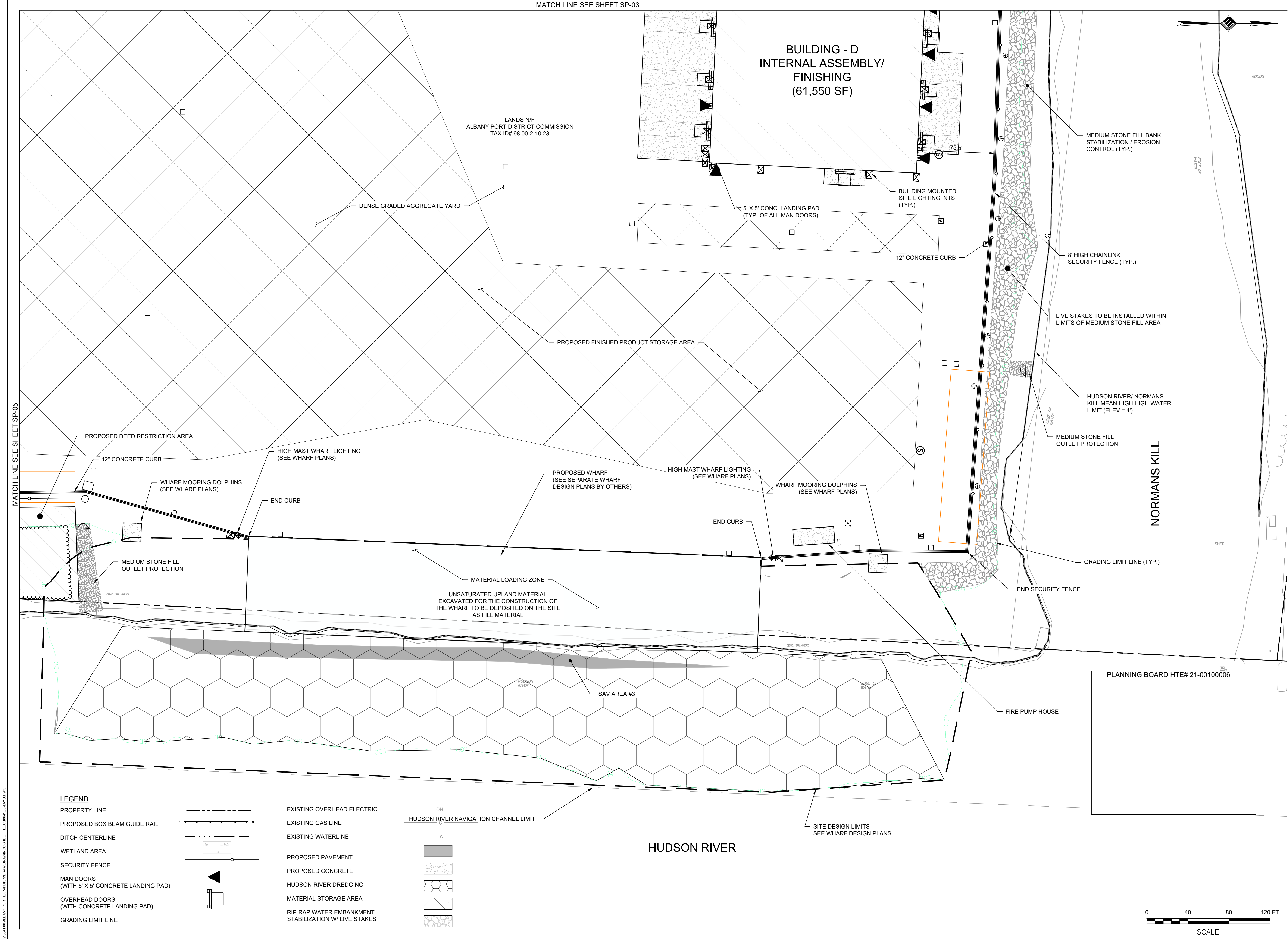
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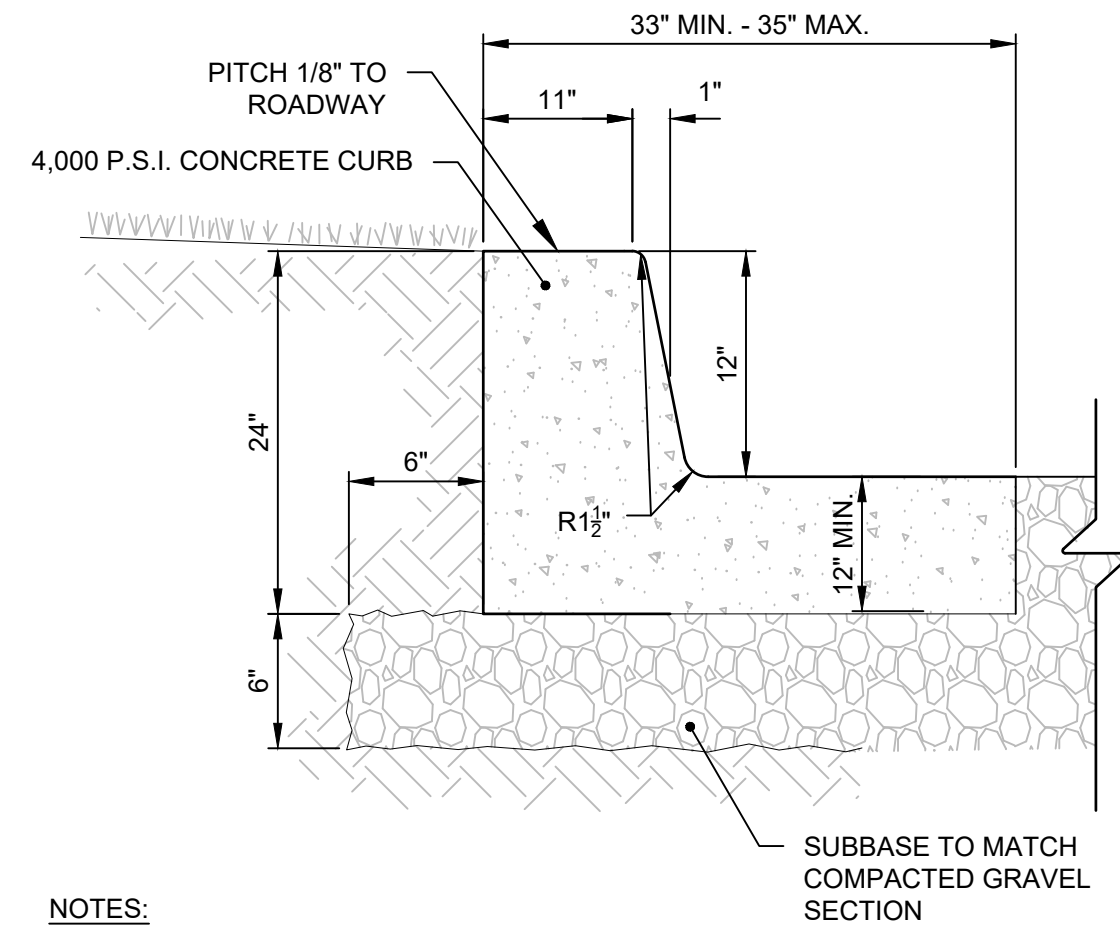
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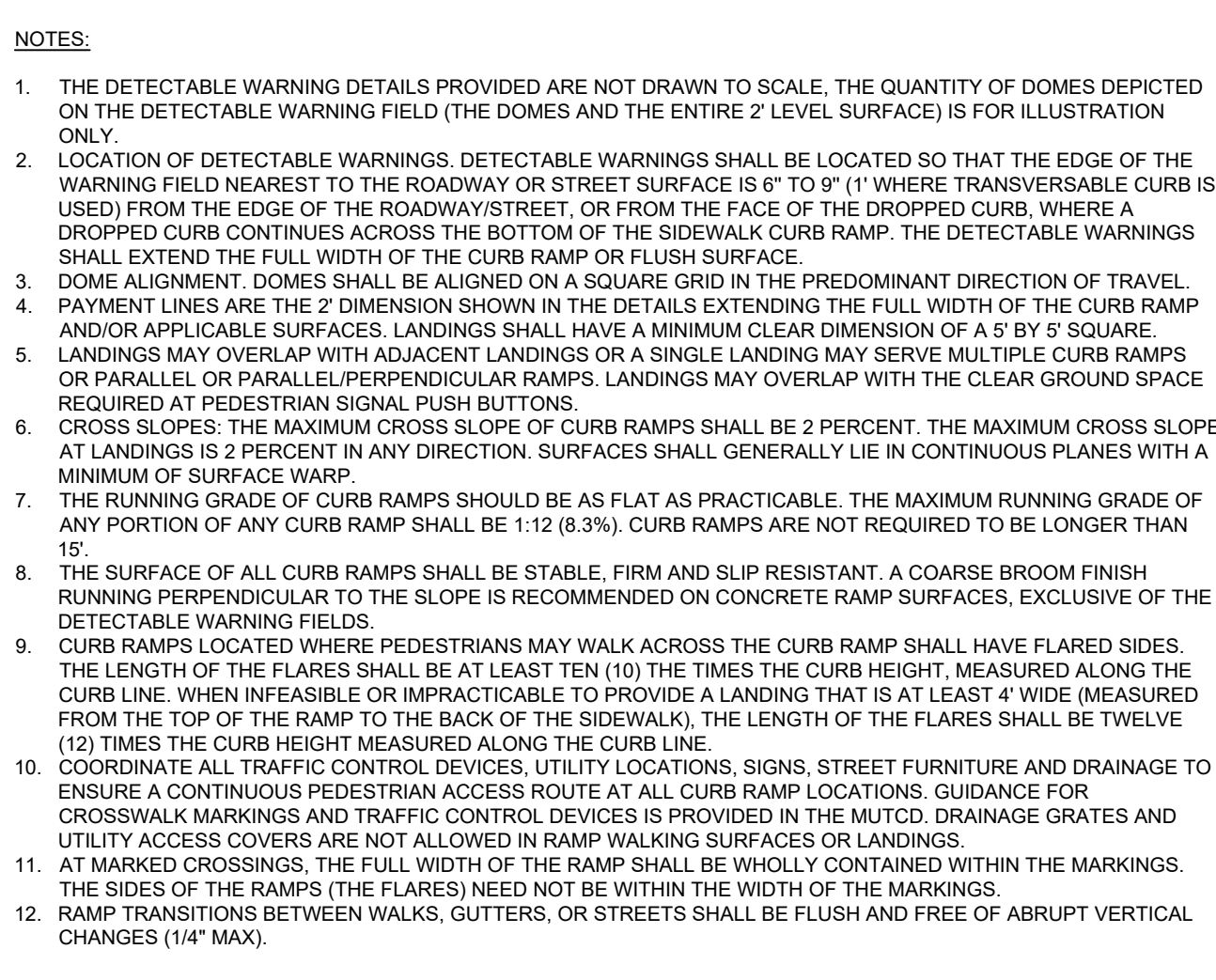
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DRAWING NUMBER

SP-06

10 OF 69



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CLIENT:

ALBANY PORT DISTRICT COMMISSION

PROJECT:

ALBANY, NEW YORK

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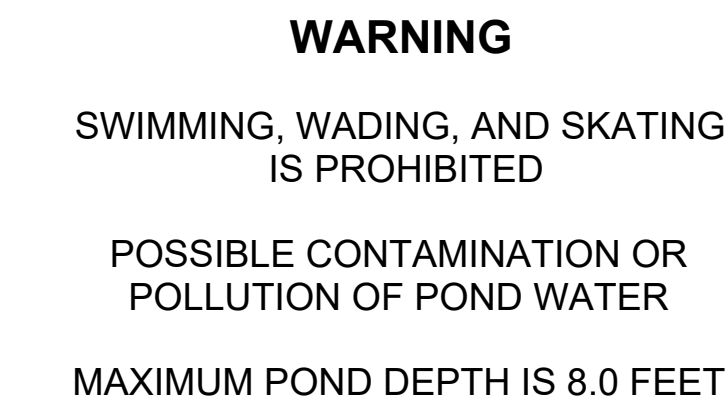
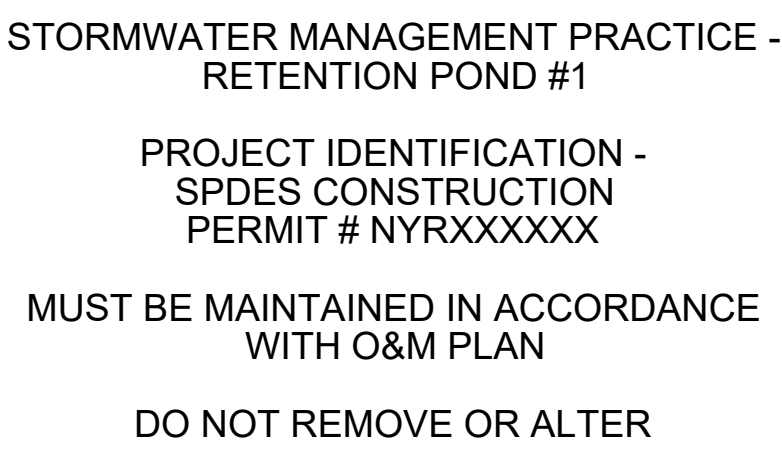
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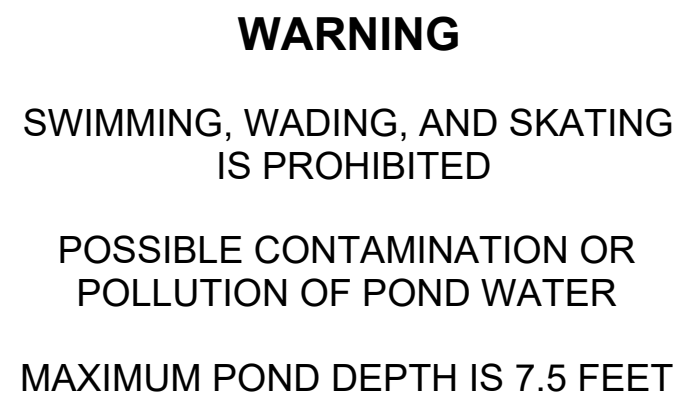
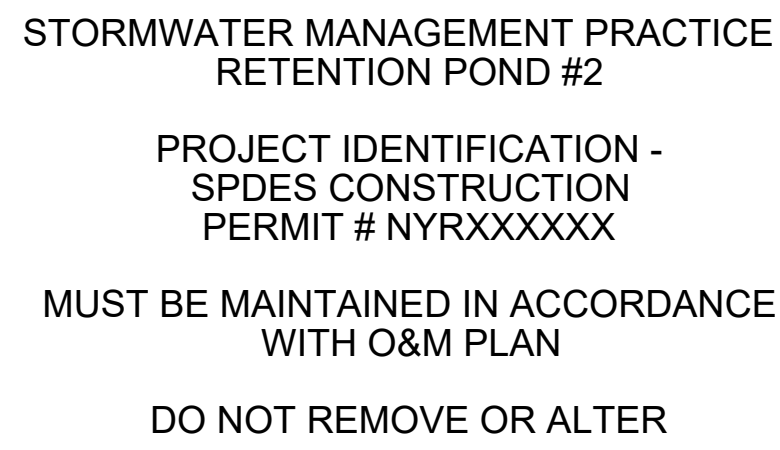
SP-08

12 OF 69

EXTERIOR LIGHT POLE BASE



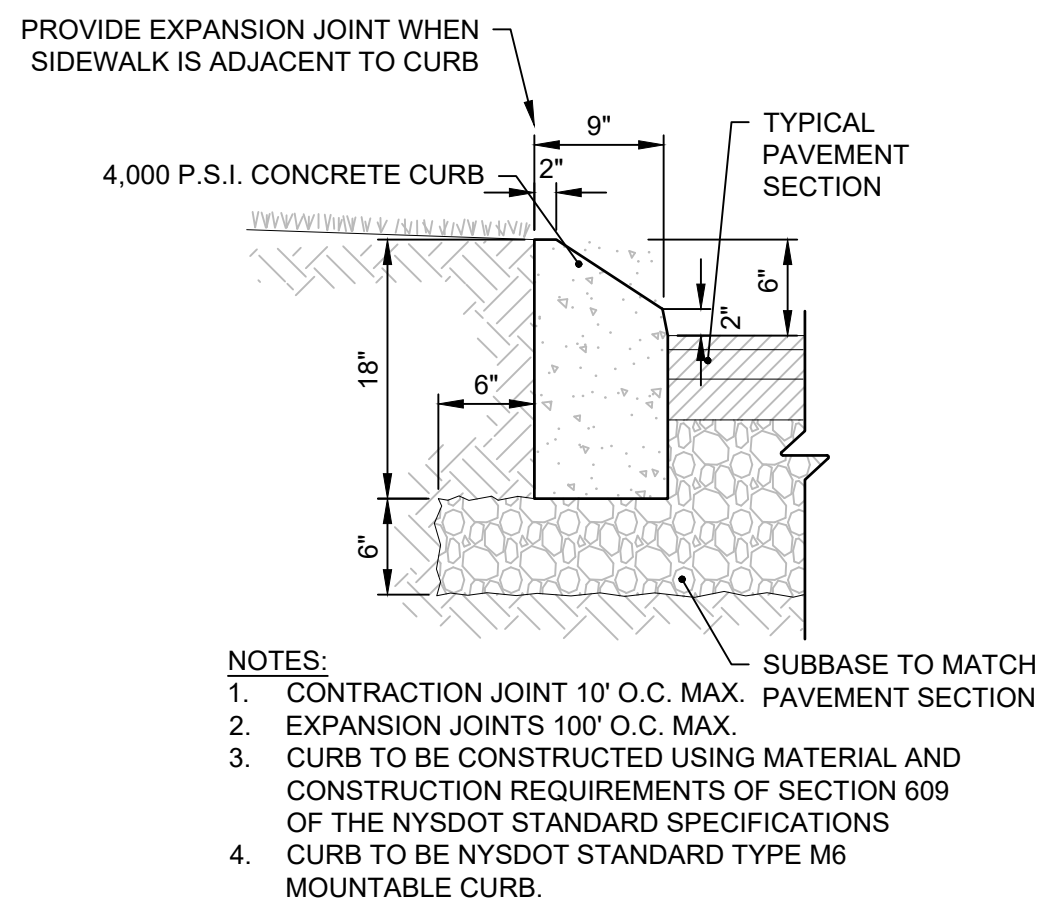
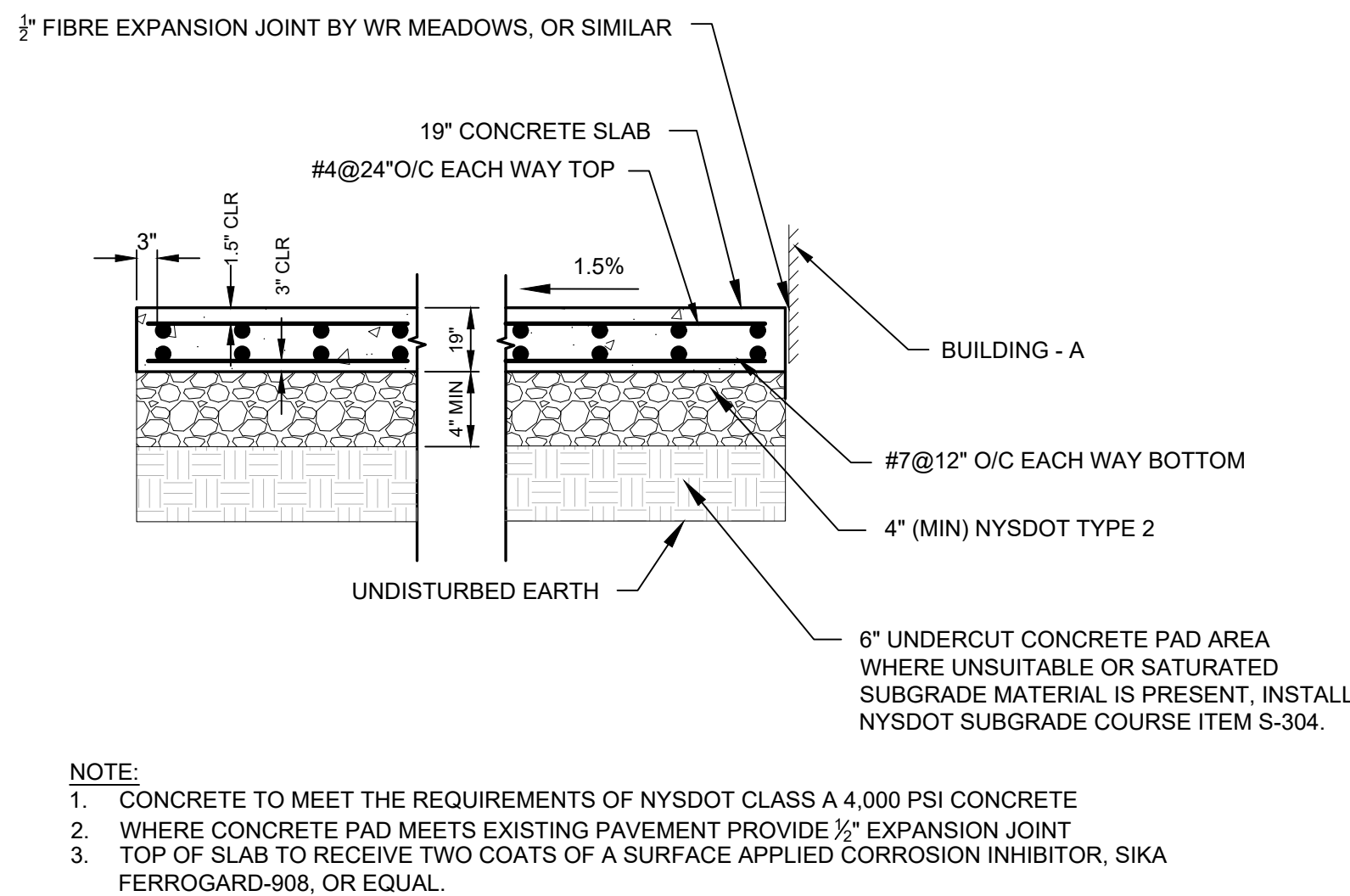
SEE SHEET SP-02 FOR LOCATION, ORIENTATION,
AND QUANTITY



SEE SHEET SP-01 FOR LOCATION, ORIENTATION, AND
QUANTITY

PLANNING BOARD HTE# 21-00100006

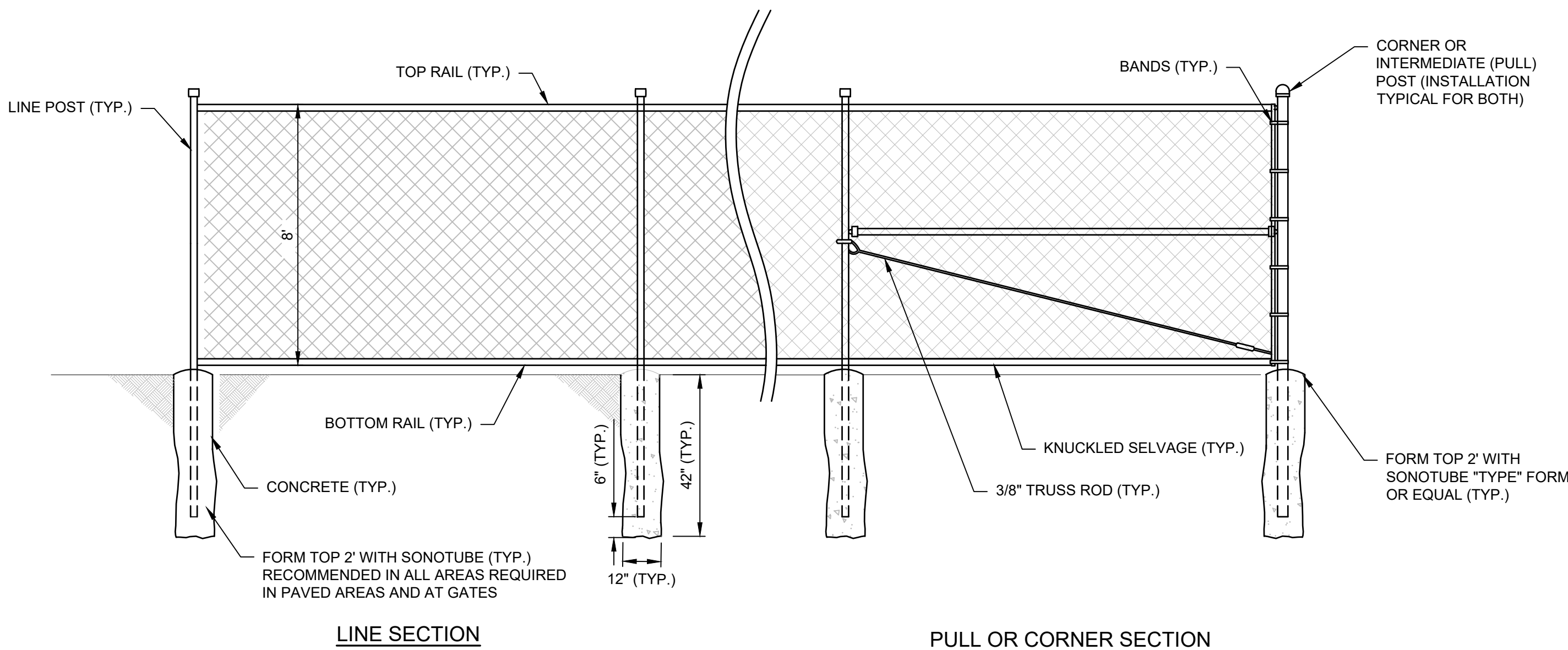
STORMWATER TREATMENT SIGNS



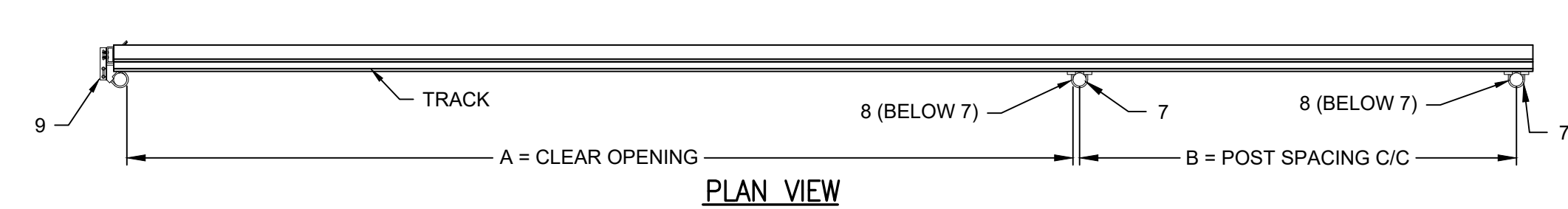
NOTES:

1. CONTRACTION JOINT 10' O.C. MAX. SUBBASE TO MATCH PAVEMENT SECTION
2. EXPANSION JOINTS 100' O.C. MAX.
3. CURB TO BE CONSTRUCTED USING MATERIAL AND CONSTRUCTION REQUIREMENTS OF SECTION 609 OF THE NYSDOT STANDARD SPECIFICATIONS
4. CURB TO BE NYSDOT STANDARD TYPE M6 MOUNTABLE CURB.

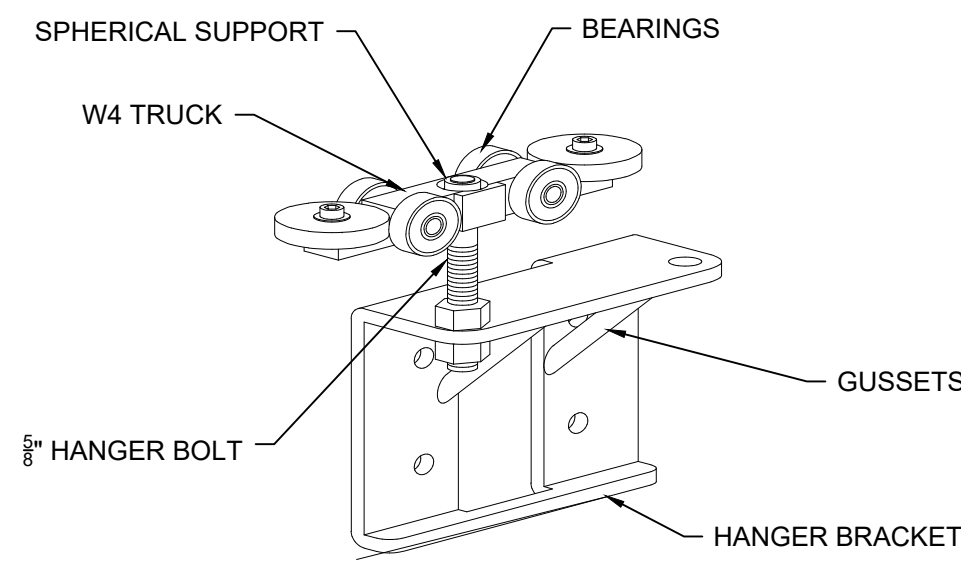
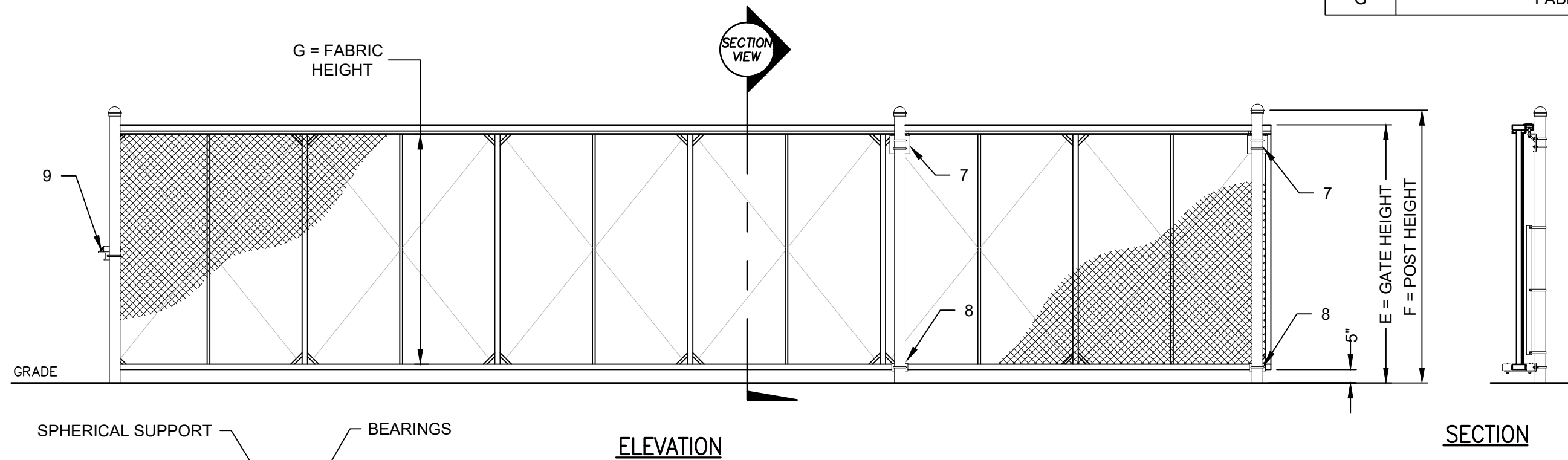
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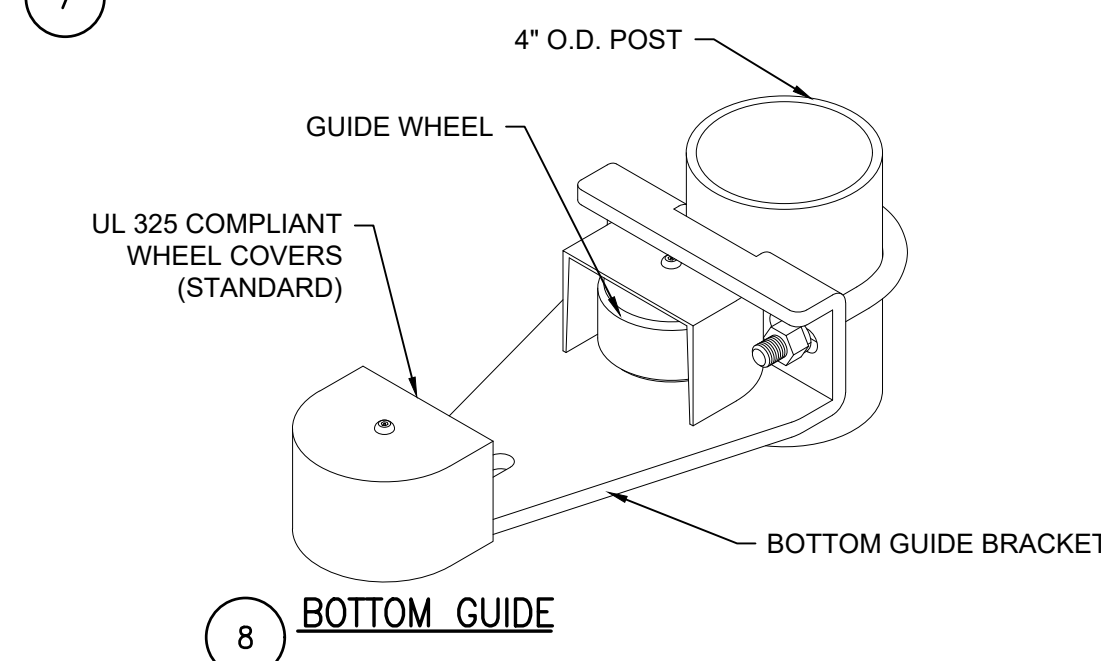
8' GALVANIZED CHAIN LINK FENCE
N.T.S.



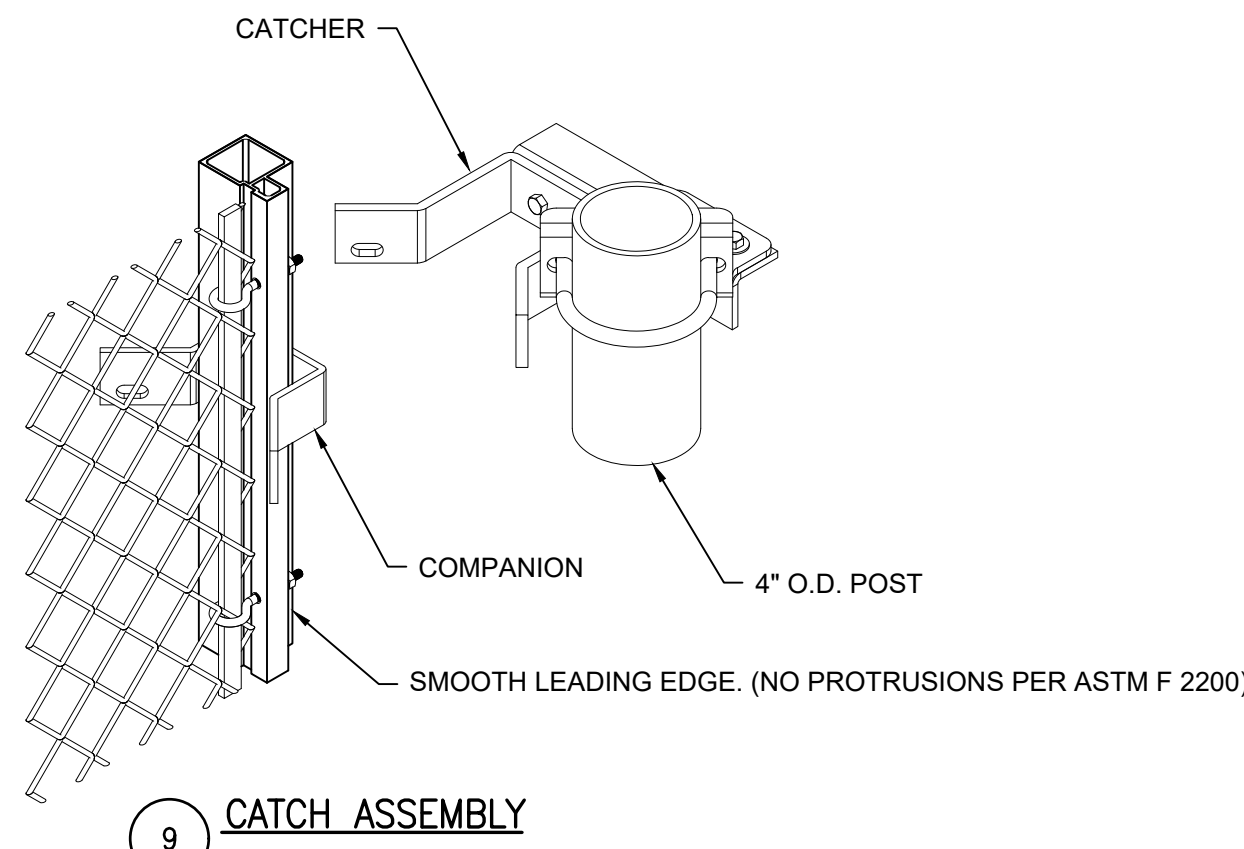
CRITICAL GATE DIMENSION CHART						
MARK	DESCRIPTION	FORMULA	#1	#2	#3	#4
A	CLEAR OPENING	A	20' (2)	25' (1)	20' (2)	20' (2)
B	COUNTERBALANCE POST SPACING C/C	(A/2)-11"	9'-1"	11'-7"	9'-1"	9'-1"
C	OVERALL GATE LENGTH	A x 1.5	30'	37.5'	30'	30'
D	COUNTERBALANCE LENGTH	A x 0.5	10'	12.5'	10'	10'
E	NOMINAL GATE HEIGHT	E	8'	8'	8'	8'
F	POST HEIGHT (W BARB ARMS)	E + 1'-6"	9'-6"	9'-6"	9'-6"	9'-6"
G	FABRIC HEIGHT	E - 1'-0"	7'	7'	7'	7'



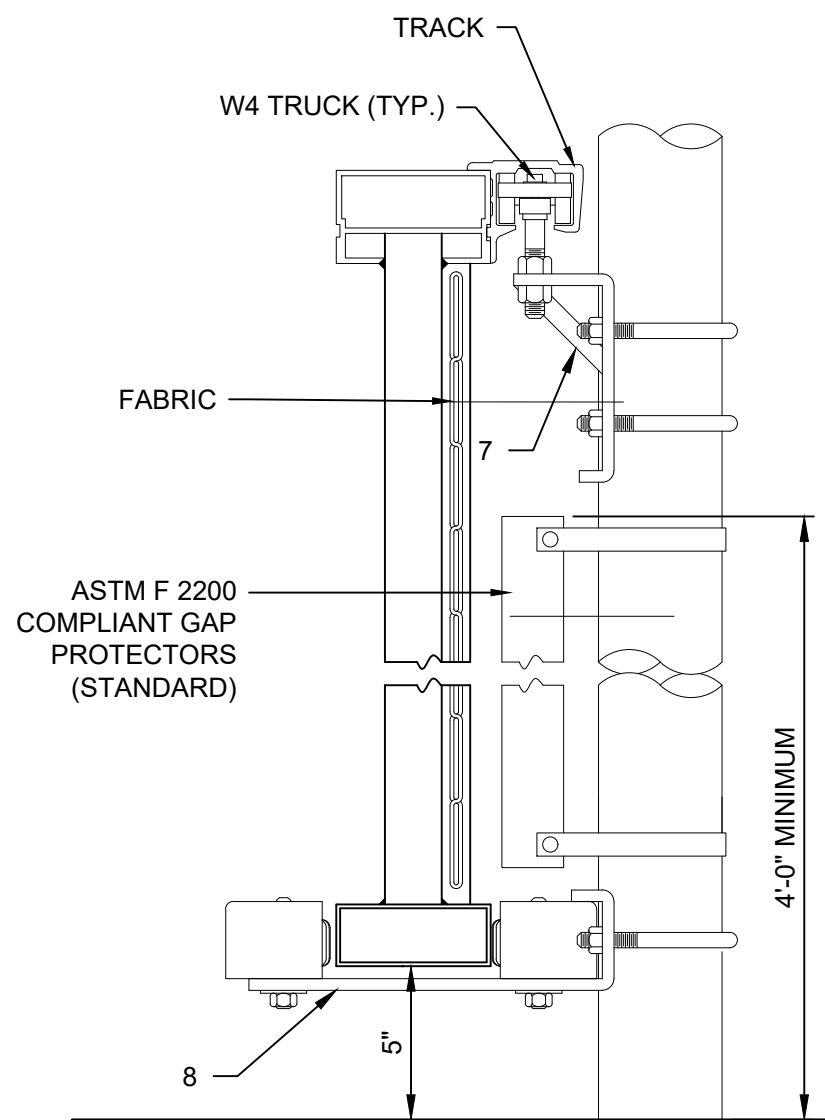
7 GATE HANGER ASSEMBLY



8 BOTTOM GUIDE



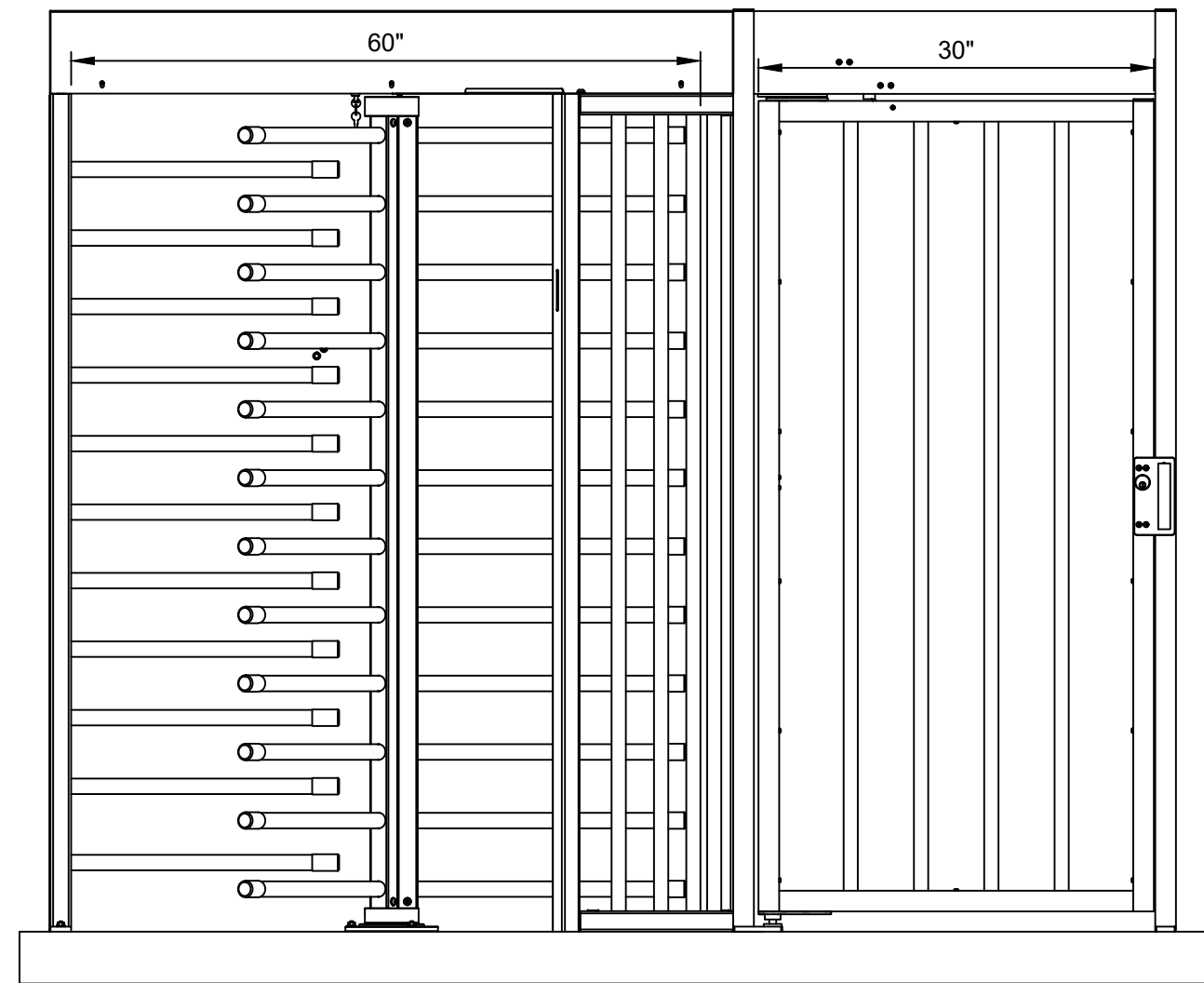
9 CATCH ASSEMBLY



ENLARGED SECTION

- NOTES:
1. ALL FITTINGS STANDARDLY PROVIDED FOR 4" O.D. POSTS. OTHER SIZES AVAILABLE UPON REQUEST.
 2. BARB ARMS (FOR BARBED WIRE) OPTIONAL.
 3. MANUFACTURED BY TYMETAL CORP. OR APPROVED EQUAL
 4. ALL FENCING TO COMPLY WITH NYSDOT STANDARDS SHEET 607

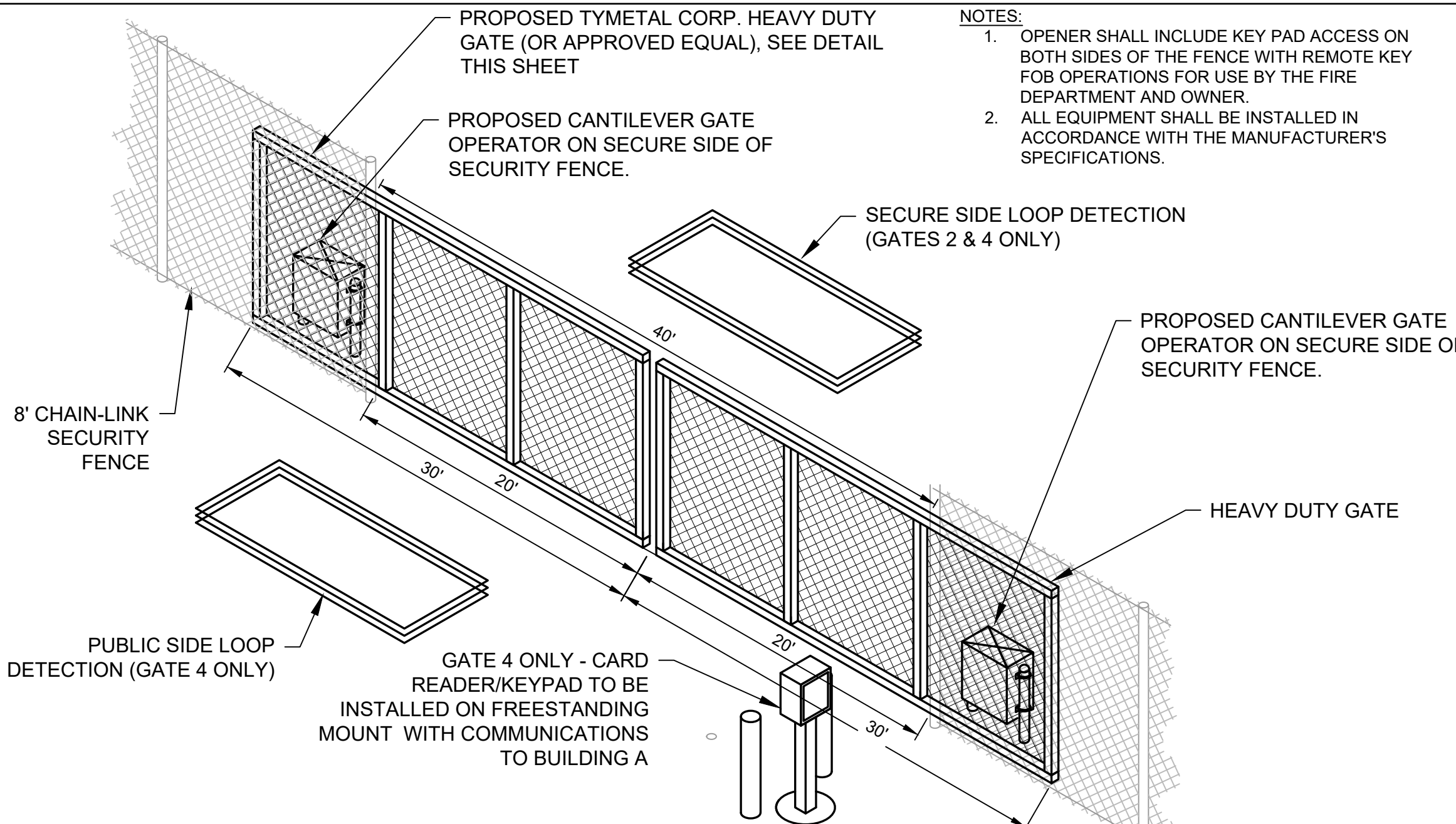
HEAVY DUTY CANTILEVER SLIDE GATE (GATES #1, #2, #3 & #4)
N.T.S.



- GENERAL NOTES:
- LEFT HAND GATE SHOWN. GATE TO BE BRACED AT TOP.
 - USE TURNLOCK-100-60 OR APPROVED EQUAL.
- GATE MATERIALS:
- EC: GALVANIZED STEEL
 - ECF: POWDERCOATED STEEL
 - EA: ANODIZED ALUMINUM
 - ES: STAINLESS STEEL
- ELECTRICAL:
- VOLTAGE: 24 VDC REQUIRED (FOR LOCK).
 - OPTIONAL POWER SUPPLY AVAILABLE.
 - AUTHORIZATION REQUIRES DRY CONTACT FROM ACCESS CONTROL.

PLANNING BOARD HTE# 21-00100006

FULL HEIGHT SECURITY TURNSTILE/ACCESSIBLE GATE
N.T.S.



POWERED CANTILIEVER GATE (GATES #1,#2, #3, #4)



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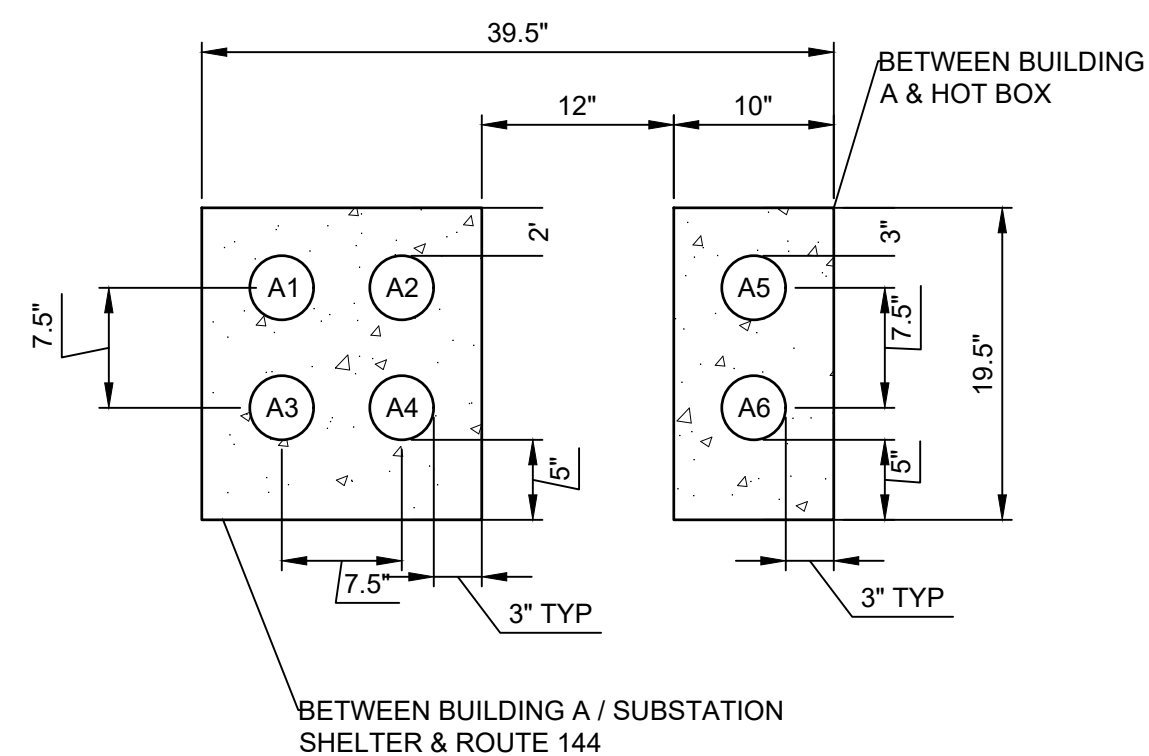
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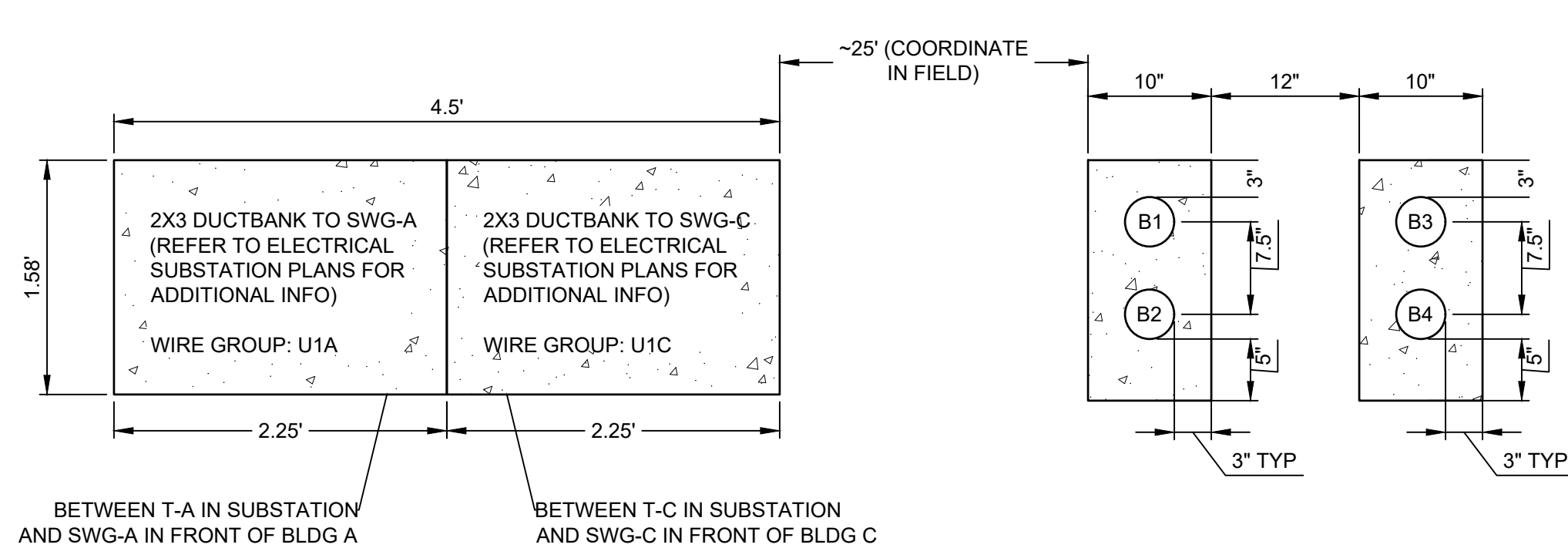
SITE DETAILS

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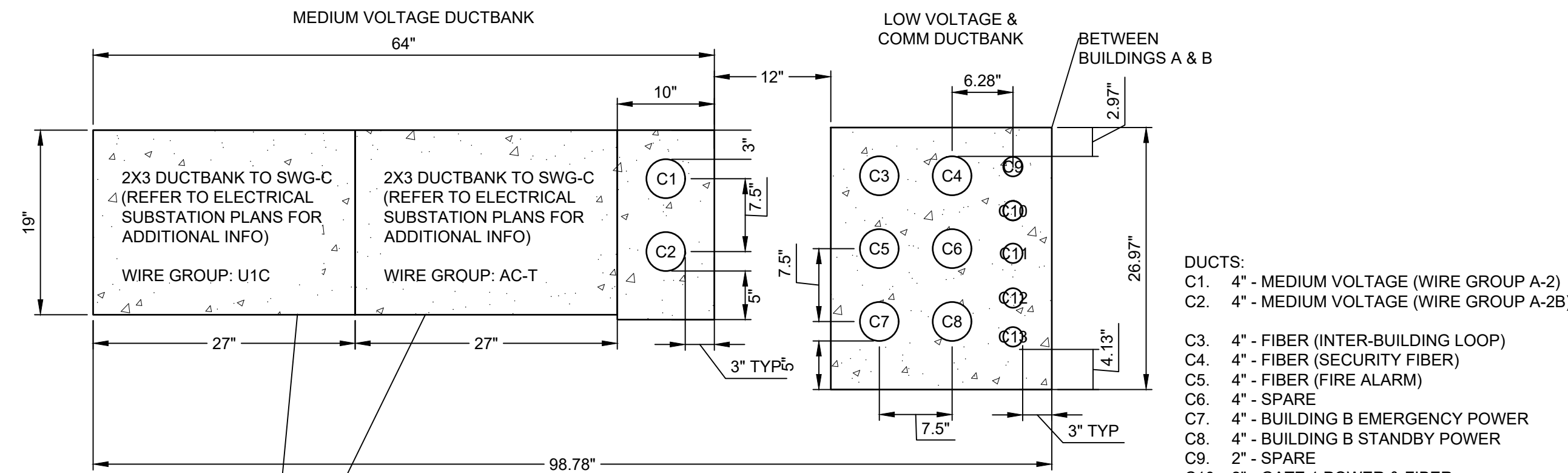
SP-09



- DUCTS:
- A1. 4" - FIBER (ROGERS)
 - A2. 4" - FIBER (VERIZON)
 - A3. 4" - SPARE COMMUNICATION
 - A4. 4" - SPARE COMMUNICATION
 - A5. 4" - HOT BOX CIRCUIT
 - A6. 4" - SPARE POWER

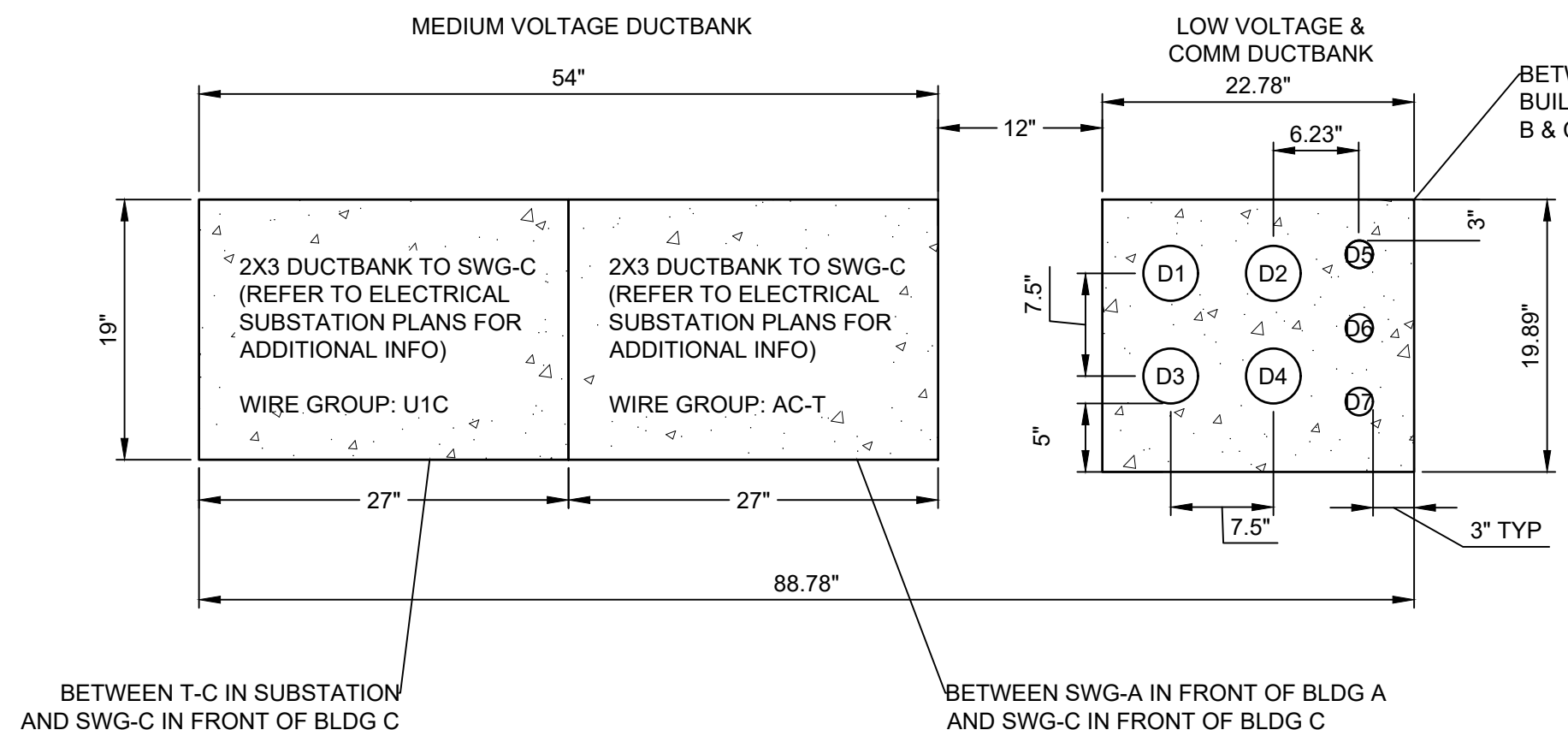


- DUCTS:
- B1. 4" - FIBER (ROGERS)
- B2. 4" - SPARE COMMUNICATION
- B3. 4" - HOT BOX CIRCUIT
- B4. 4" - SPARE POWER



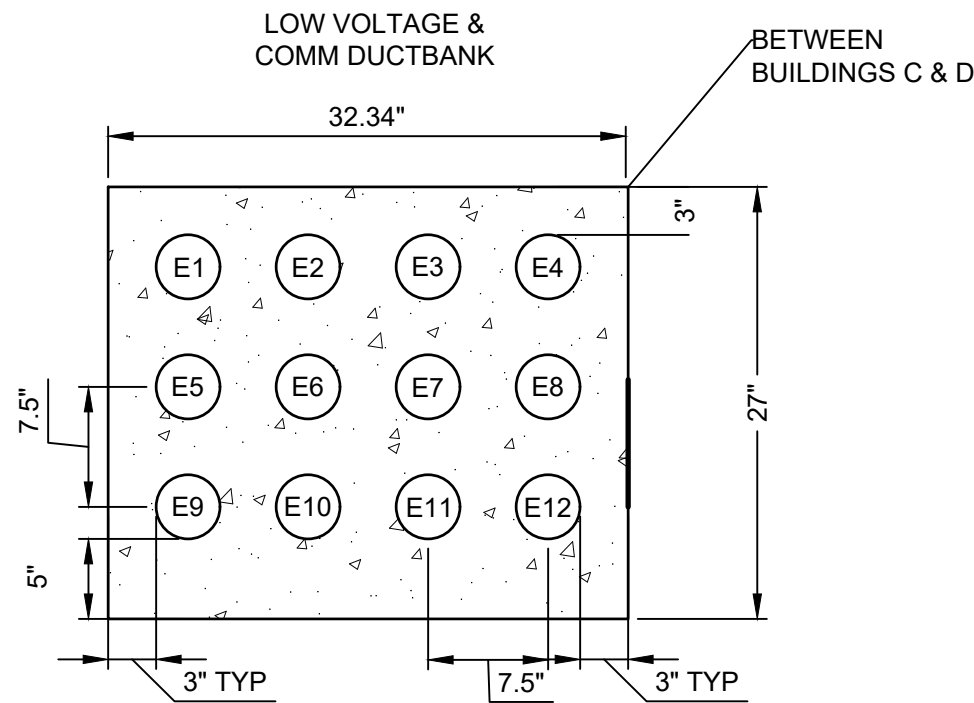
- | GENERAL SECTION NOTES: | | C11. 2" - PARKING LOT LIGHTS |
|---|--|-------------------------------|
| 1. CONDUIT SPACING BASED ON 3" DUCT-TO-DUCT SPACING | | C12. 2" - EV CHARGING STATION |
| 2. ALL DUCTBANKS TO BE PROVIDED WITH CONDUIT SPACERS AT 5' INTERVALS | | C13. 2" - SPARE |
| 3. CONDUIT SPACERS TO BE CARLON SNAP-N-STAC OR EQUIVALENT | | |
| 4. ALL ENCASED CONDUITS TO BE SCHED. 40 PVC | | |
| 5. CONCRETE TO MEET THE REQUIREMENTS OF NYSDOT CLASS A 4,000 PSI CONCRETE | | |
| 6. ALL ENCASED CONDUIT ELBOWS GREATER THAN 30 DEGREES SHALL BE RIGID METAL CONDUIT. | | |
| 7. REFER TO ELECTRICAL SUBSTATION PLANS FOR LARGE RADIUS ELBOW REQUIREMENTS FOR MEDIUM VOLTAGE DUCTBANK | | |

SECTION A
(BETWEEN ROUTE 144 AND BUILDING A)

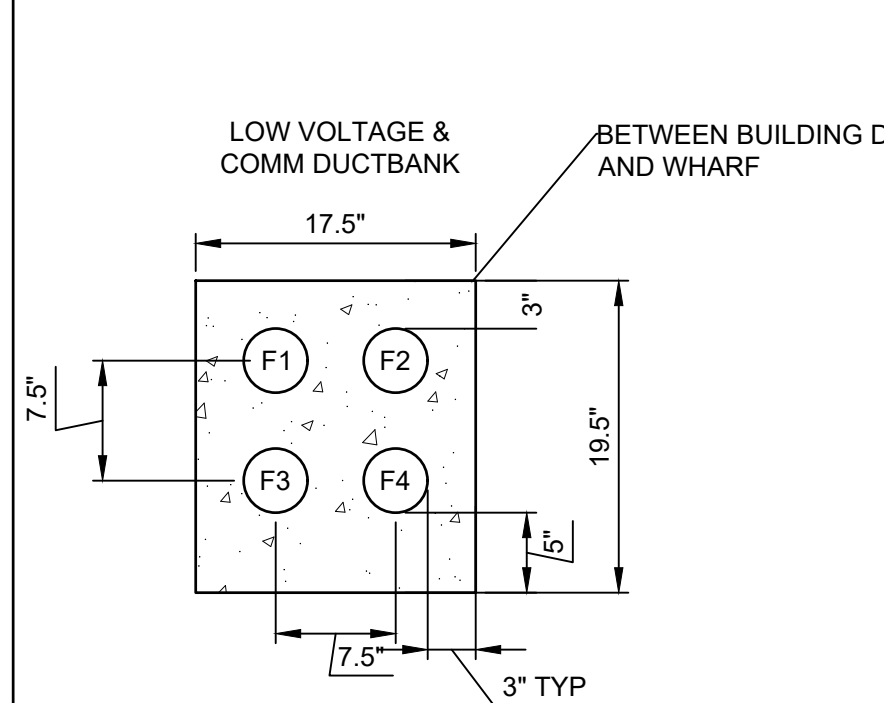


- DUCTS:
- D1. 4" - FIBER (INTER-BUILDING LOOP)
 - D2. 4" - FIBER (SECURITY FIBER)
 - D3. 4" - FIBER (FIRE ALARM)
 - D4. 4" - SPARE
 - D5. 2" - PARKING LOT LIGHTS
 - D6. 2" - SPARE
 - D7. 2" - SPARE

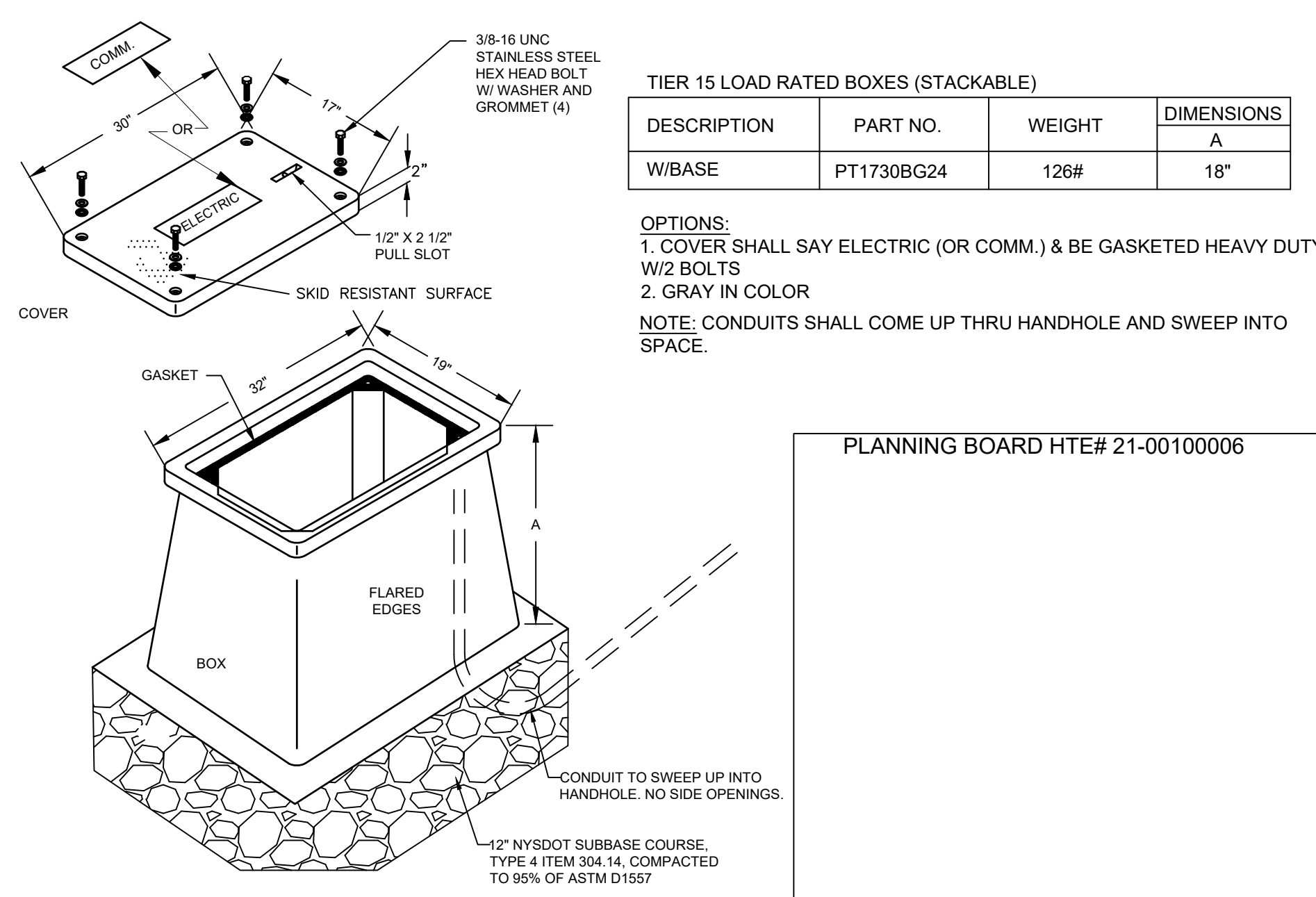
SECTION B
(UNDERNEATH ACCESS ROAD LOCATED BETWEEN SUBSTATION AND BUILDING A)



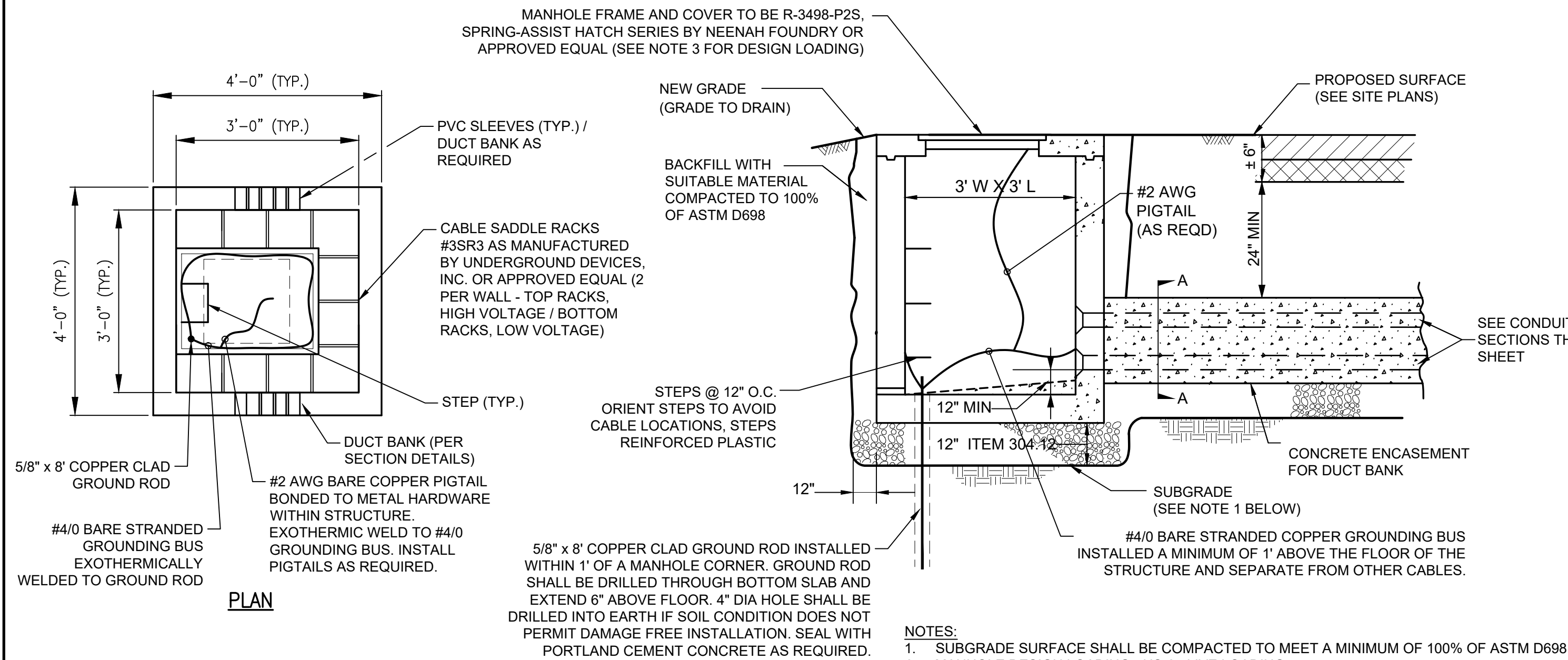
- DUCTS:
- E1. 4" - FIBER (INTER-BUILDING LOOP)
 - E2. 4" - FIBER (SECURITY FIBER)
 - E3. 4" - FIBER (FIRE ALARM)
 - E4. 4" - SPARE
 - E5. 4" - BUILDING D EMERGENCY POWER
 - E6. 4" - BUILDING D STANDBY POWER
 - E7. 4" - PACKAGED TREATMENT PLANT
 - E8. 4" - SPARE
 - E9. 4" - BUILDING D NORMAL POWER
 - E10. 4" - BUILDING D NORMAL POWER
 - E11. 4" - BUILDING D NORMAL POWER
 - E12. 4" - BUILDING D NORMAL POWER



- DUCTS:
F1. 4" - FIBER (FIRE ALARM)
F2. 4" - SPARE
F3. 4" - PUMPHOUSE POWER
F4. 4" - TRAILER POWER

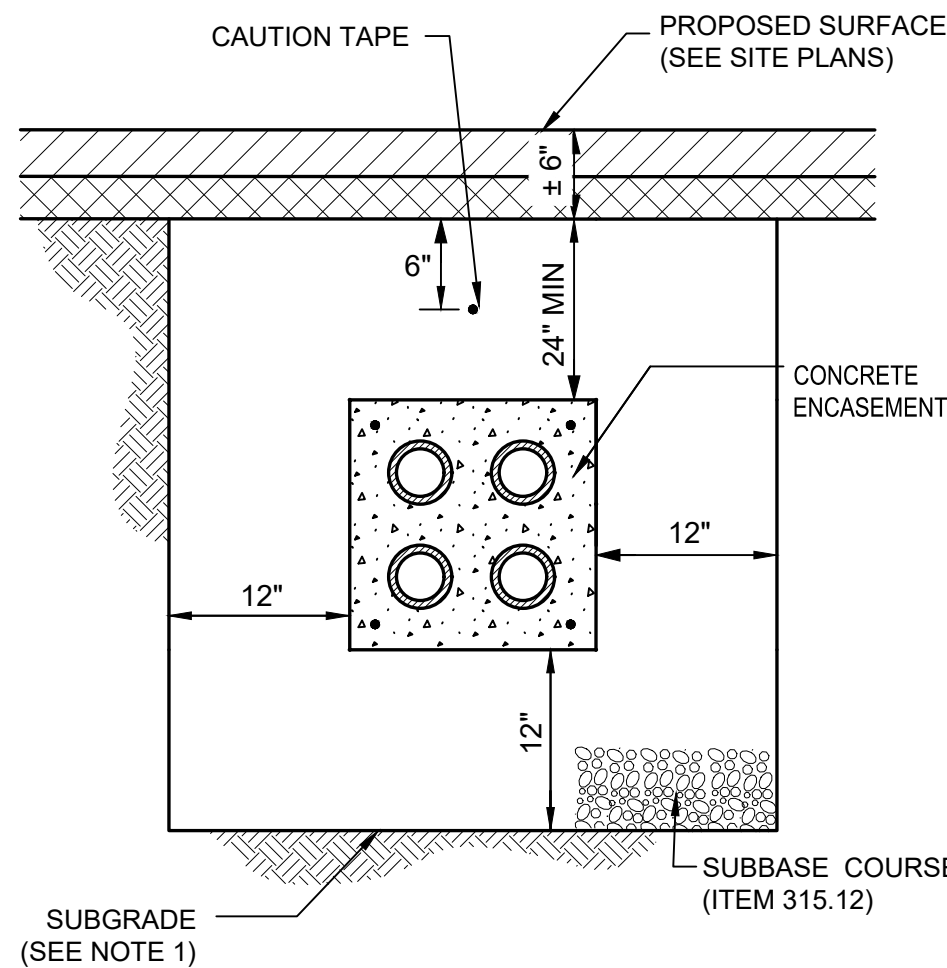


SECTION D
(BETWEEN BUILDING B & BUILDING C)



- NOTES:**
1. SUBGRADE SURFACE SHALL BE COMPACTED TO MEET A MINIMUM OF 100% OF ASTM D698
 2. MANHOLE DESIGN LOADING - HS-25 LIVE LOADING.
 3. PROVIDE THE FOLLOWING LABELING ON ALL MANHOLE COVERS: "ELECTRIC"
 4. PROVIDE PERMANENT LABELING OF ALL CABLES WITHIN MANHOLE.

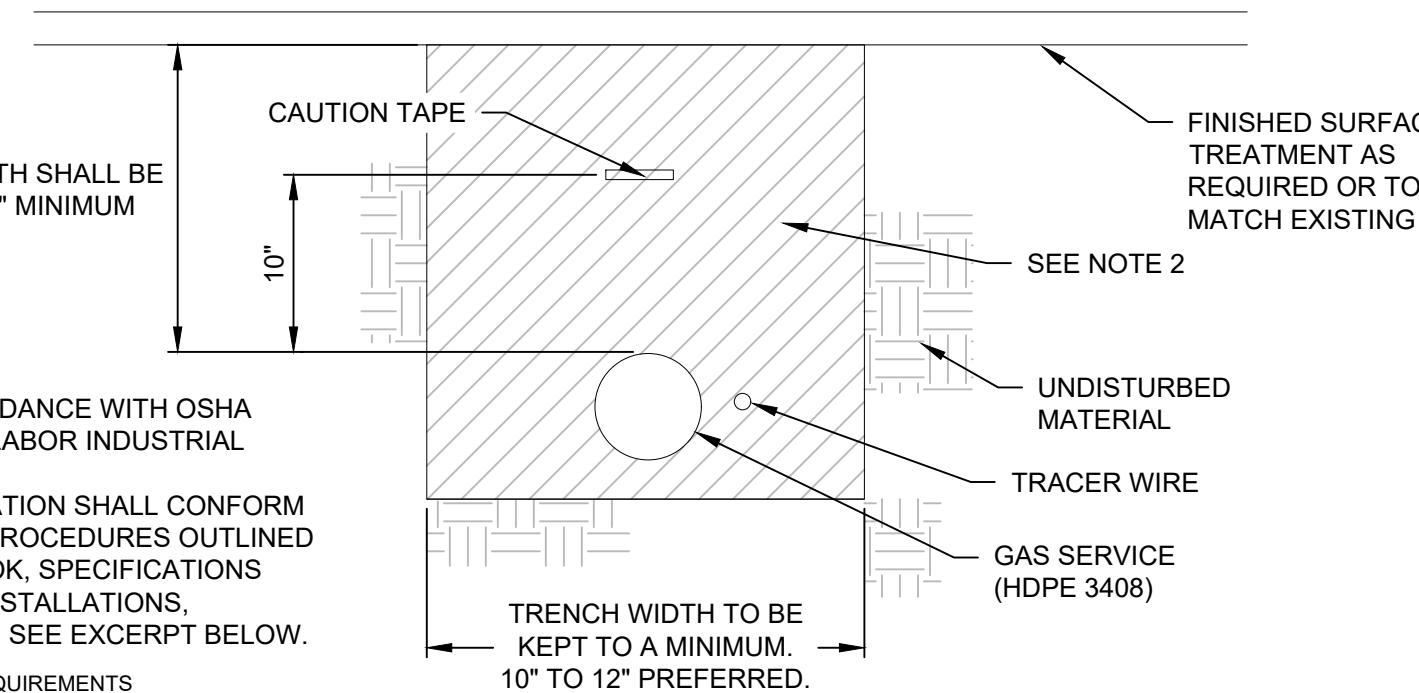
SECTION E
(BETWEEN BUILDING C & BUILDING D)



SECTION A-A DUCT BANK
NOT TO SCALE

SECTION F
(BETWEEN BUILDING D & WHARF)

LIGHTWEIGHT PRECAST CONCRETE HANDHOLE
NOT TO SCALE



- NOTES:**
1. ALL TRENCHING TO BE IN ACCORDANCE WITH OSHA STANDARDS AND NYS DEPT. OF LABOR INDUSTRIAL CODE 23
 2. UNDERGROUND PIPING INSTALLATION SHALL CONFORM WITH THE REQUIREMENTS AND PROCEDURES OUTLINED IN THE "NATIONAL GRID BLUEBOOK, SPECIFICATIONS AND REQUIREMENTS FOR GAS INSTALLATIONS, UPDATE NEW YORK, JUNE 2016". SEE EXCEPT BELOW.

11.11 PLASTIC PIPING, INSTALLATION REQUIREMENTS

- 11.1.1 NEW YORK STATE CODE REQUIRES THAT PLASTIC PIPE AND FITTINGS SHALL BE INSTALLED BY QUALIFIED PERSONNEL ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 11.1.2 ALL JOINTS SHALL BE VISUALLY INSPECT FOR DAMAGE SUCH AS GOUGES, SCRATCHES AND KINKS, AND DISCARD ANY DAMAGED MATERIALS.
- 11.1.3 PE PIPE AND TUBING MUST BE LAID ON UNDISTURBED OR WELL-COMPACTED SOIL, OR OTHER CONTINUOUS SUPPORT. SUITABLE ROCK-FREE BACK-FILL SHALL ALWAYS BE PLACED AROUND THE PIPE OR TUBING.
- 11.1.4 IN ADDITION TO THE MINIMUM COVER REQUIREMENT (18"), CONSIDERATION MUST BE GIVEN TO FUTURE LOADING AND ACTIVITY ABOVE AND AROUND THE PIPING TO DETERMINE IF ENCASEING THE PIPE IN A STEEL SLEEVE IS NECESSARY.
- 11.1.5 PNEUMATIC OR MECHANICAL TAMPING SHALL NOT BE USED WITHIN 12" OF THE PLASTIC PIPING.
- 11.1.6 PIPE OR TUBING MUST BE FREE OF CUTS OR SCRATCHES DEEPER THAN 10% OF THE WALL THICKNESS. DEFECTS IN PIPE, TUBING OR FITTINGS CANNOT BE REPAIRED THEREFORE DEFECTIVE PIPE OR TUBING OR FITTINGS MUST BE REPLACED.
- 11.1.7 PE PIPE AND TUBING SHALL BE JOINED BY HEAT FUSION OR BY MECHANICAL FITTINGS (MECHANICAL SERVICE HEAD ADAPTERS).
- 11.1.8 MECHANICAL FITTINGS SHALL NOT BE USED WHERE PRESSURE EXCEEDS 5 PSI OR PIPE SIZE IS GREATER THAN 4" DIAMETER. EXCEPTION IN CERTAIN INSTANCES AS DETERMINED BY THE ENGINEER.
- 11.1.9 PE PIPE AND TUBING SHALL BE PROTECTED FROM MECHANICAL DAMAGE. MECHANICAL STAB AND FULL RESTRAINED (LOCKING) COMPRESSION FITTINGS (MADE FOR NATURAL GAS) ARE PERMITTED AS APPROVED BY NATIONAL GRID. IF A METALLIC MECHANICAL FITTING IS USED AS A LAST RESORT, THE MECHANICAL COUPLING SHALL BE CATHODICALLY PROTECTED FROM CORROSION BY INDUSTRY APPROVED COATING AND THE INSTALLATION OF A 3M ANODE.
- 11.1.9 HEAT FUSION JOINTS SHALL BE MADE ACCORDING TO THE MANUFACTURER'S RECOMMENDED HEAT FUSION PROCEDURES.
- 11.1.10 TO JOIN KERTON JOINTS ARE NOT PERMITTED.
- 11.1.11 JOINTS SHALL NOT BE LOCATED IN PIPE BENDS.
- 11.1.12 SEE THE PIPE MANUFACTURER'S REQUIREMENTS FOR MINIMUM BENDING RADIUS OF PLASTIC PIPE.
- 11.1.13 HEAT FUSION JOINTS SHALL BE PERFORMED ONLY BY PERSONNEL QUALIFIED IN THE APPROPRIATE JOINING TECHNIQUES.
- 11.1.14 A 1/2" AVG. MINIMUM INSULATED SOIL COVER WITH 2" POLYURETHANE FOAM ENCLOSURE MUST BE MAINTAINED THROUGHOUT THE PLASTIC PIPE TO FACILITATE LOCATING WITH A PIPE LOCATOR. TRACER WIRES SHALL TERMINATE IN AN ACCESSIBLE LOCATION ABOVE GROUND SO THAT A PIPE LOCATOR CAN BE CONNECTED.
- 11.1.15 A 8" BRIGHT-COLORED PLASTIC WARNING TAPE SHALL BE BURIED APPROXIMATELY 12" BELOW FINAL GRADE TO MARK THE LOCATION OF THE PIPE AND TO WARN FIELD OPERATORS.
- 11.1.16 INSULATING COUPLINGS OR FITTINGS SHALL BE USED TO ELECTRICALLY SEPARATE THE UNDERGROUND PORTION OF PLASTIC PIPING FROM THE ABOVE-GROUND STEEL PIPING OR THE PIPING IN A BUILDING. THIS IS NECESSARY TO PROTECT THE GAS RISER, AND ALSO IS NECESSARY FOR ANODELESS, PRE-COATED RISERS.
- 11.1.17 PLASTIC GAS PIPE INSTALLATIONS SHALL BE PERFORMED BY TRAINED, QUALIFIED AND CERTIFIED PERSONNEL BY NATIONAL GRID.

CONCRETE ENCASED ELECTRICAL DUCTBANK AND MANHOLE DETAIL

GAS SERVICE TRENCH DETAIL

McFarland Johnson

60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
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PROJECT MILESTONE
FINAL DESIGN PLANS

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ALBANY, NEW YORK

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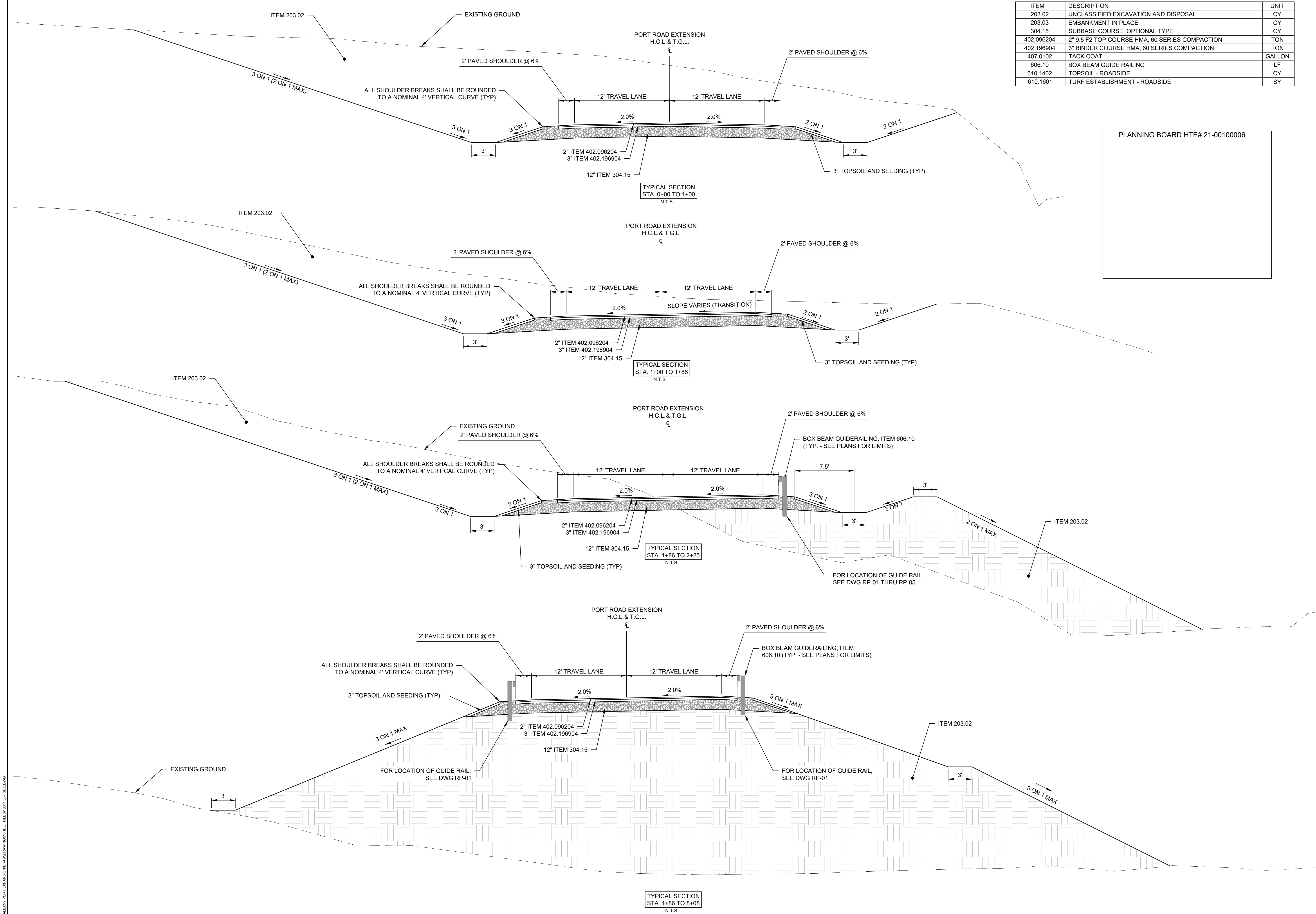
DRAWING TITLE

SITE DETAILS

DRAWING NUMBER

SP-10

N:\1861\05 ALBANY PORT EXPANSION\DRAWINGS\DWG SHEET FILES\1861-05-TP-01.DWG



ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY
402.096204	2" 9.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	TON
402.196904	3" BINDER COURSE HMA, 60 SERIES COMPACTION	TON
407.0102	TACK COAT	GALLON
606.10	BOX BEAM GUIDE RAILING	LF
610.1402	TOPSOIL - ROADSIDE	CY
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY

PLANNING BOARD HTE# 21-00100006



McFarland Johnson
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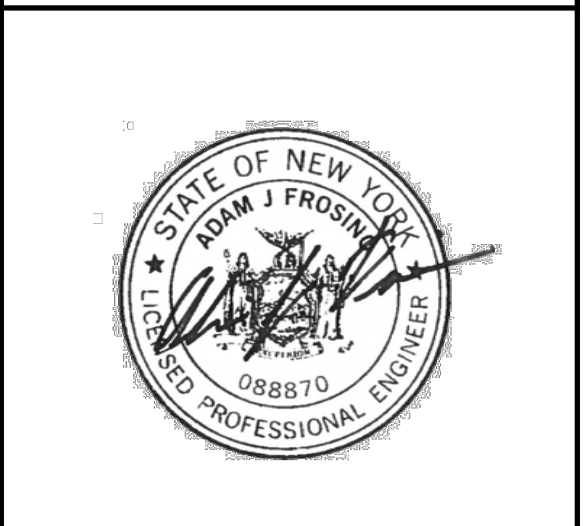
PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

PROJECT:
**ALBANY, NEW YORK
PORT OF ALBANY EXPANSION SITE**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



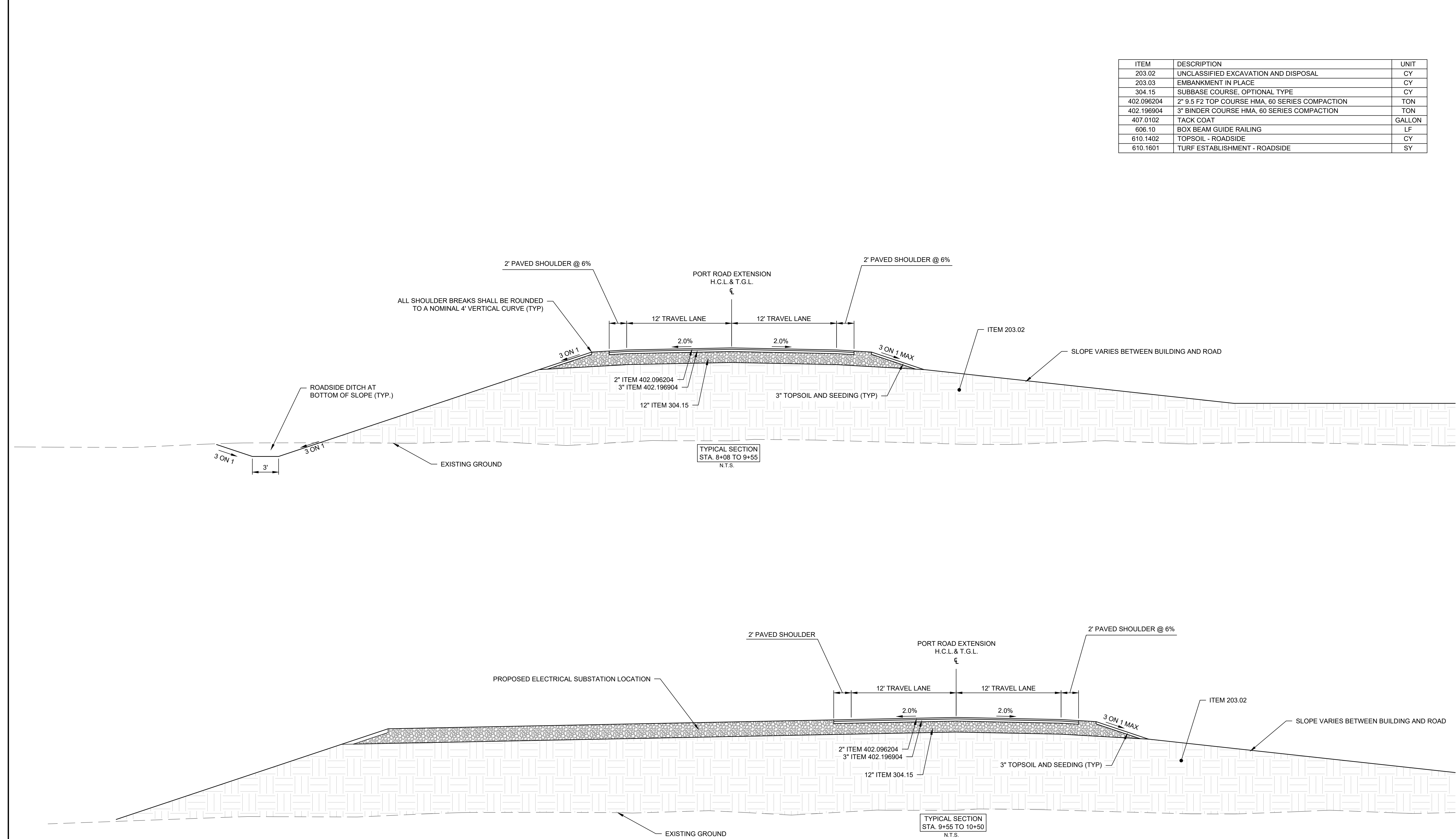
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DRAWING TITLE
TYPICAL SECTION

DRAWING NUMBER
TP-01

15 OF 69

N:\181610 ALBANY PORT EXPANSION\DRAWINGS\DRAWING SHEET FILES\181610-02.TP-02.DWG



ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY
402.096204	2" 9.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	TON
402.196904	3" BINDER COURSE HMA, 60 SERIES COMPACTION	TON
407.0102	TACK COAT	GALLON
606.10	BOX BEAM GUIDE RAILING	LF
610.1402	TOPSOIL - ROADSIDE	CY
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY



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DRAWING TITLE

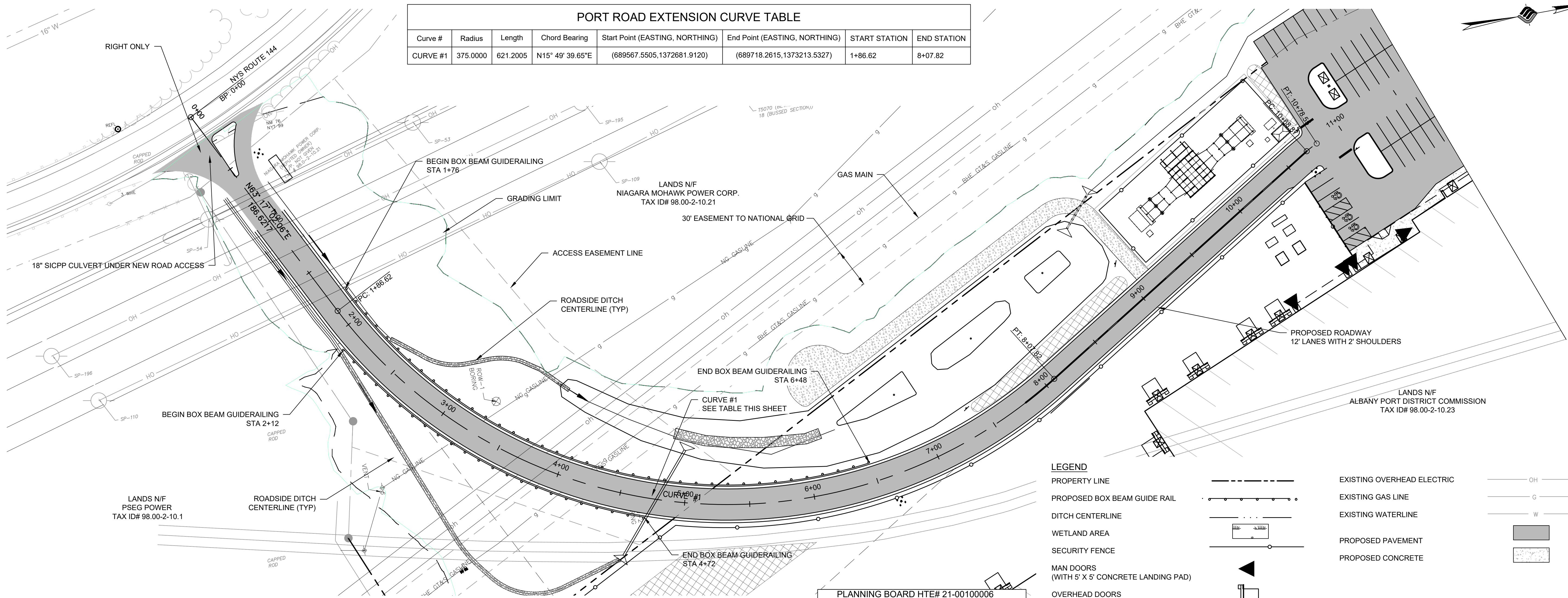
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DRAWING NUMBER

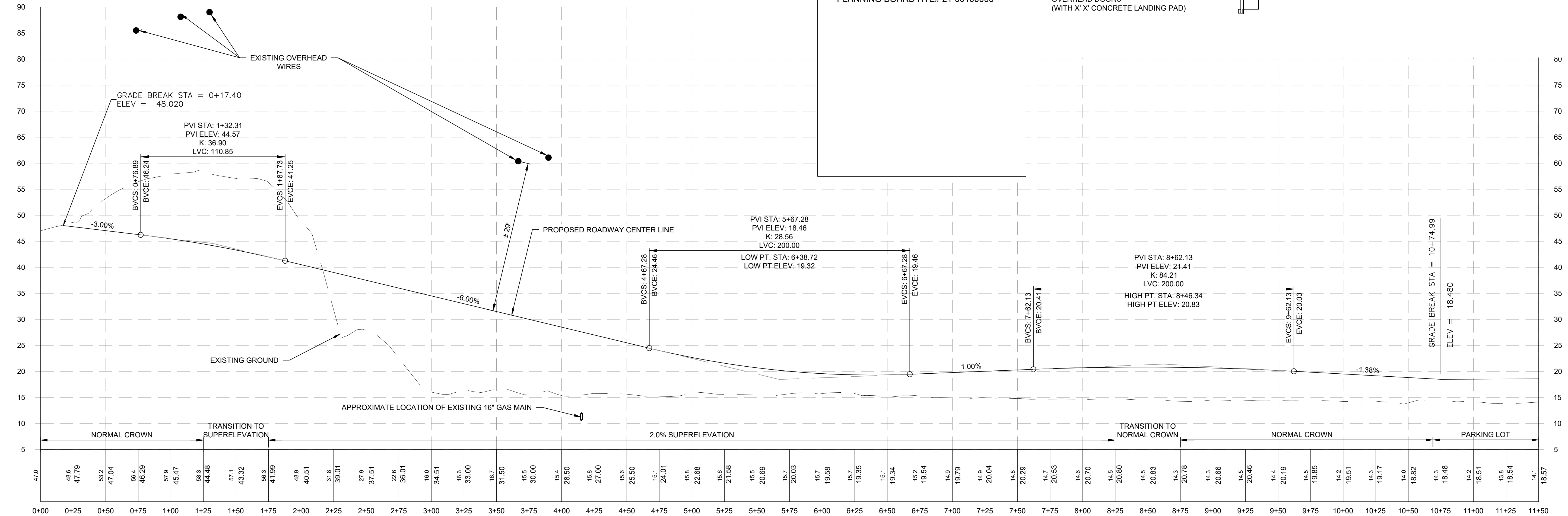
TP-02

16 OF 69

N:\1841\01 ALBANY PORT EXPANSION\DRAWINGS\1841-01-01.DWG



PORT ROAD EXTENSION CURVE TABLE							
Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #1	375.0000	621.2005	N15° 49' 39.65"E	(689567.5505, 1372681.9120)	(689718.2615, 1373213.5327)	1+86.62	8+07.82



NEW PORT ROAD - 1
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

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ALBANY, NEW YORK
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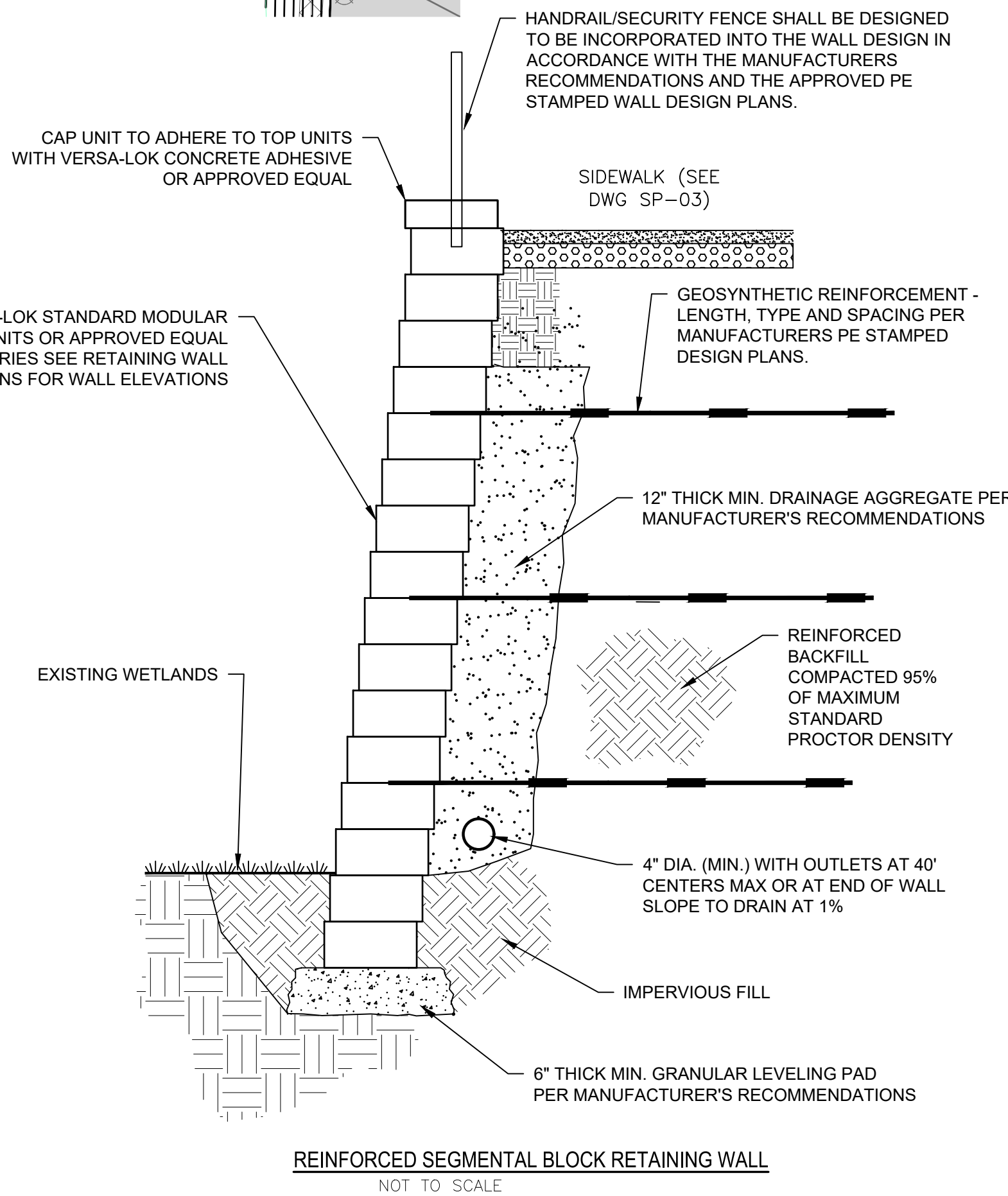
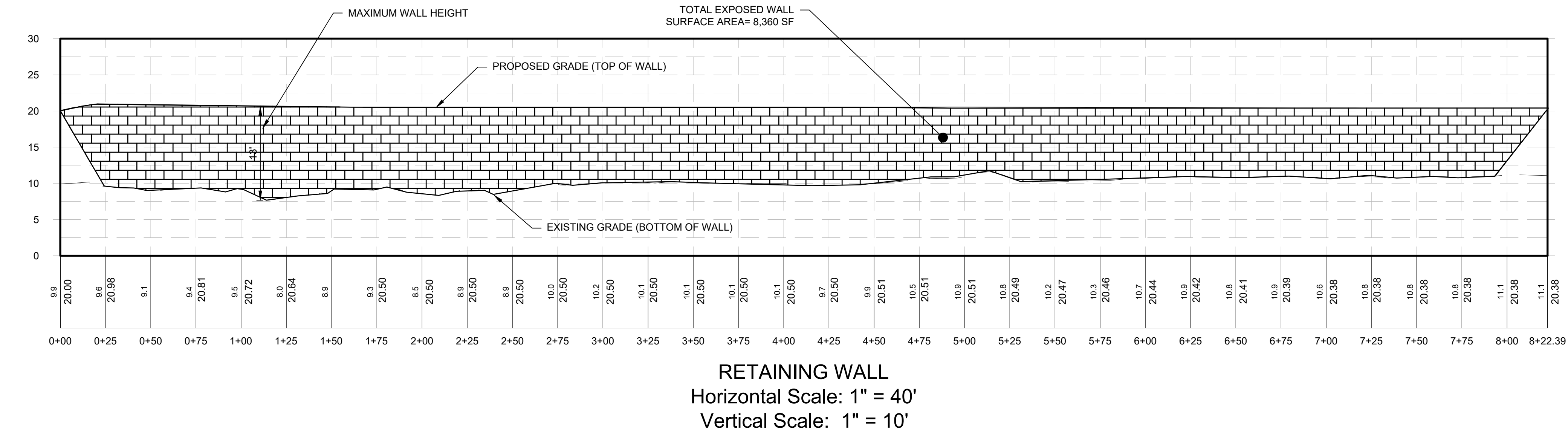
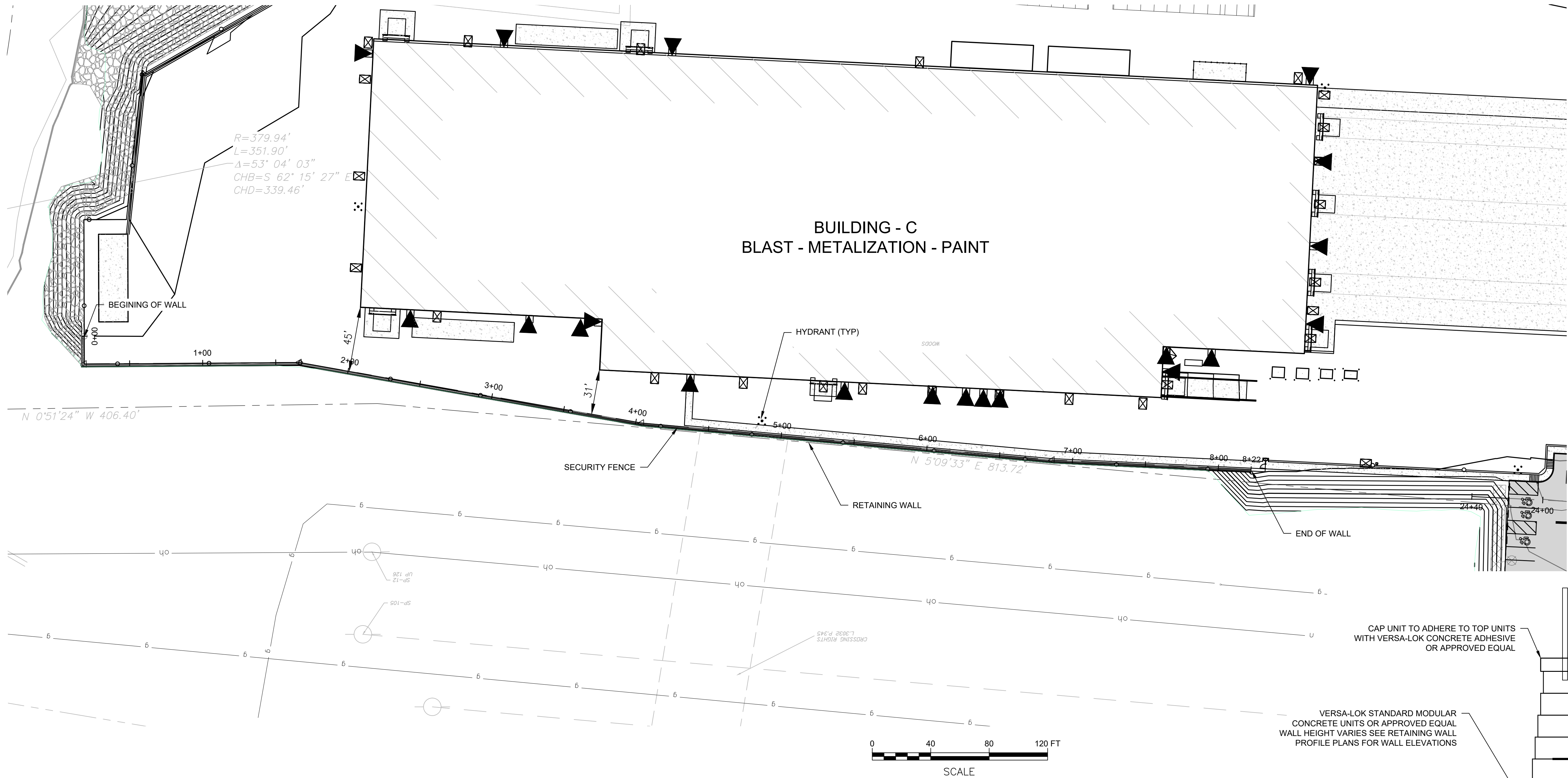


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DRAWING TITLE
ENTRANCE ROAD PROFILE


DRAWING NUMBER
PR-01

NOTED TO ALBANY PORT EXPANSION DRAWINGS SHEET 100-PROF-WALL-DWG



RETAINING WALL NOTES:

1. DETAILED WALL DESIGN CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR/WALL MANUFACTURER IN ADDITION TO PROVIDING STAMPED AND SEALED PLANS BY A NYS PROFESSIONAL ENGINEER.
2. SPECIAL CONSIDERATION SHALL BE GIVEN TO THE GEOSYNTHETIC REINFORCEMENT WHEN PLACING BACKFILL AND INSTALLING THE HAND RAILING AND FENCING TO MAINTAIN RECOMMENDED SPACING. INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE WALL MANUFACTURERS RECOMMENDATIONS.
3. AN ALTERNATIVE LARGE BLOCK GRAVITY WALL IS AN ACCEPTABLE ALTERNATIVE THAT CAN BE CONSIDERED DURING THE SUBMITTAL REVIEW PROCESS AND REQUIRES THE SAME SUPPORTING DOCUMENTATION, CALCULATIONS AND PLANS BY A NYS PROFESSIONAL ENGINEER PRIOR TO APPROVAL.



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FINAL DESIGN PLANS

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1	05/20/22	TOWN COMMENTS

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**ALBANY, NEW YORK
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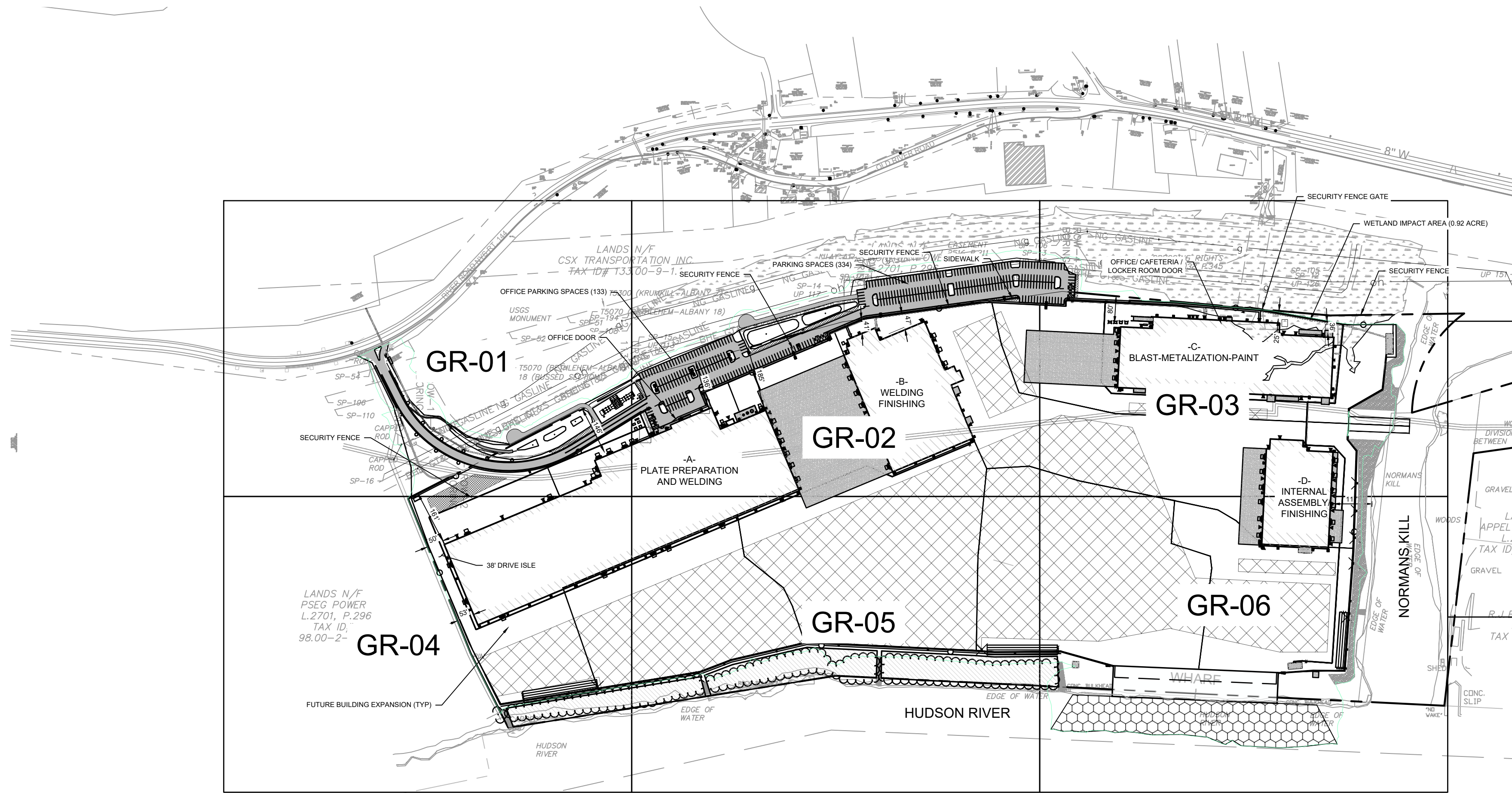
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DRAWING TITLE
RETAINING WALL

DRAWING NUMBER
PR-02

18 OF 69

N:\18641\05 ALBANY PORT EXPANSION\DRAWINGS\SSHEET FILES\DWG\05 GR-01.DWG



GRADING NOTES:

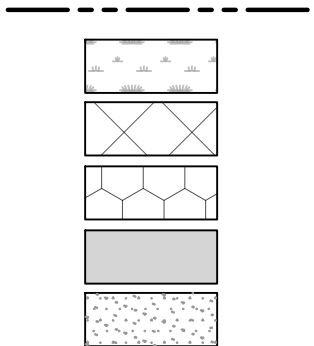
1. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER. REPLACE TOPSOIL TO A MINIMUM 3" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDING AS DIRECTED BY THE CONSTRUCTION MANAGER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS, INCLUDING INLET PROTECTION AND SILT FENCE. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE VEGETATION HAS ACHIEVED 80% STABILIZATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
4. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE PROJECTS EROSION AND SEDIMENT CONTROL PLANS, THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, ALBANY COUNTY HEALTH DEPARTMENT, AND THE TOWN OF BETHLEHEM REQUIREMENTS.
5. ALL INLETS TO THE STORM SEWER SHALL HAVE INLET PROTECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BEST MANAGEMENT PRACTICES (BMP'S) UNTIL GROUND COVER ACHIEVES 80% STABILIZATION.
6. SILT FENCE OR OTHER APPROVED EROSION CONTROL PRACTICE SHALL BE USED ON STEEP SLOPES AND WHEREVER NECESSARY TO CONTROL EROSION AND SILTATION OF EXISTING DRAINAGE SYSTEMS AS ORDERED BY THE ENGINEER OR SPECIFIED ON PLANS.
7. THE CONTRACTOR SHALL DESIGNATE A REPRESENTATIVE WITH NYSDEC CERTIFICATION TO MONITOR EROSION CONTROL PRACTICES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
8. ALL GRADING AND EARTHWORK SHALL BE IN CONFORMANCE WITH NEW YORK STATE STANDARD SPECIFICATIONS SECTION 203 - EXCAVATION AND EMBANKMENT, WHICH INCLUDES MAXIMUM EMBANKMENT LIFT THICKNESS ALLOWED BASED ON THE COMPACTION EQUIPMENT USED.
9. ALL PROPOSED ELEVATIONS SHOWN HEREON ARE FINISHED GRADE ELEVATION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING RIM ELEVATIONS IN RELATION TO PROPOSED GRADE PRIOR TO INSTALLATION.
11. CAUTION SHOULD BE USED WHEN COMPLETING ANY EXCAVATION WITHIN THE SITE WITH REGARD TO THE EXISTING CONDITIONS. ALL GRADING WORK SHALL BE IN COMPLIANCE WITH THE SOIL MANAGEMENT PLAN - PORT OF ALBANY EXPANSION PROJECT, BEACON ISLAND PARCEL, BETHLEHEM, ALBANY COUNTY, NEW YORK PREPARED BY ATL DATED "AUGUST 13, 2021".

STORM SEWER:

1. ALL HDPE PIPES SHALL FOLLOW NYSDOT SECTION 603-2 AND 706-12, BE SMOOTH INTERIOR.
2. PLACE RIP-RAP AROUND ALL END SECTIONS.
3. IN INSTANCES WHERE THE STORM SEWER CROSSES THE SANITARY SEWER A CRUSHED STONE ENCASEMENT SHALL BE PROVIDED AROUND THE SANITARY SEWER UP TO THE STORM SEWER-COMPACT WITH APPROVED EQUIPMENT.
4. ALL CATCH BASINS AND STORM MANHOLES WITHIN PAVEMENT TO BE CONSTRUCTED TO WITHSTAND HS-20 LOADING.

LEGEND

- PROPERTY LINE
- WETLAND AREA
- STORAGE AREA
- DREDGING AREA
- PAVEMENT AREA
- CONCRETE AREA



PLANNING BOARD HTE# 21-00100006



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PROJECT MILESTONE

FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
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PROJECT	18641.00



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DRAWING TITLE

GRADING, DRAINAGE
NOTES & INDEX

DRAWING NUMBER

GR-00

PROJECT MILESTONE

FINAL DESIGN PLANS

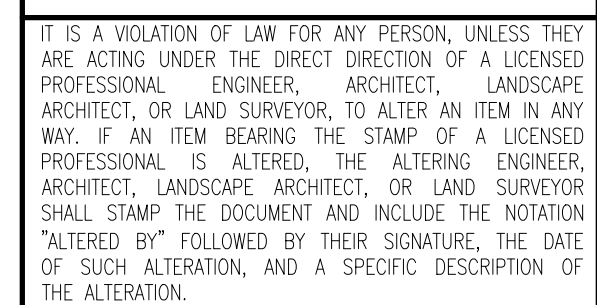
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CLIENT: ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT: **PORT OF ALBANY EXPANSION SITE**

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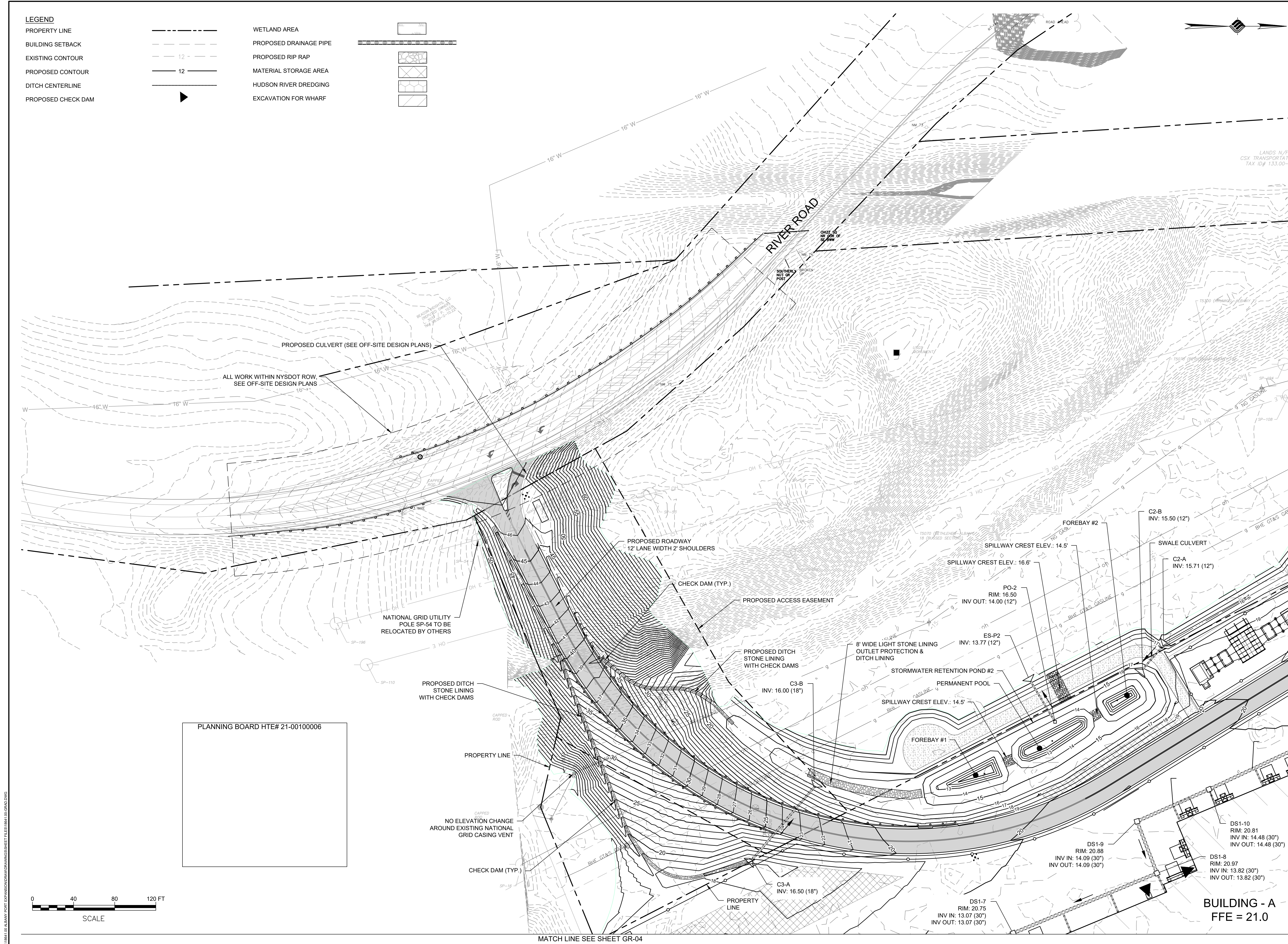
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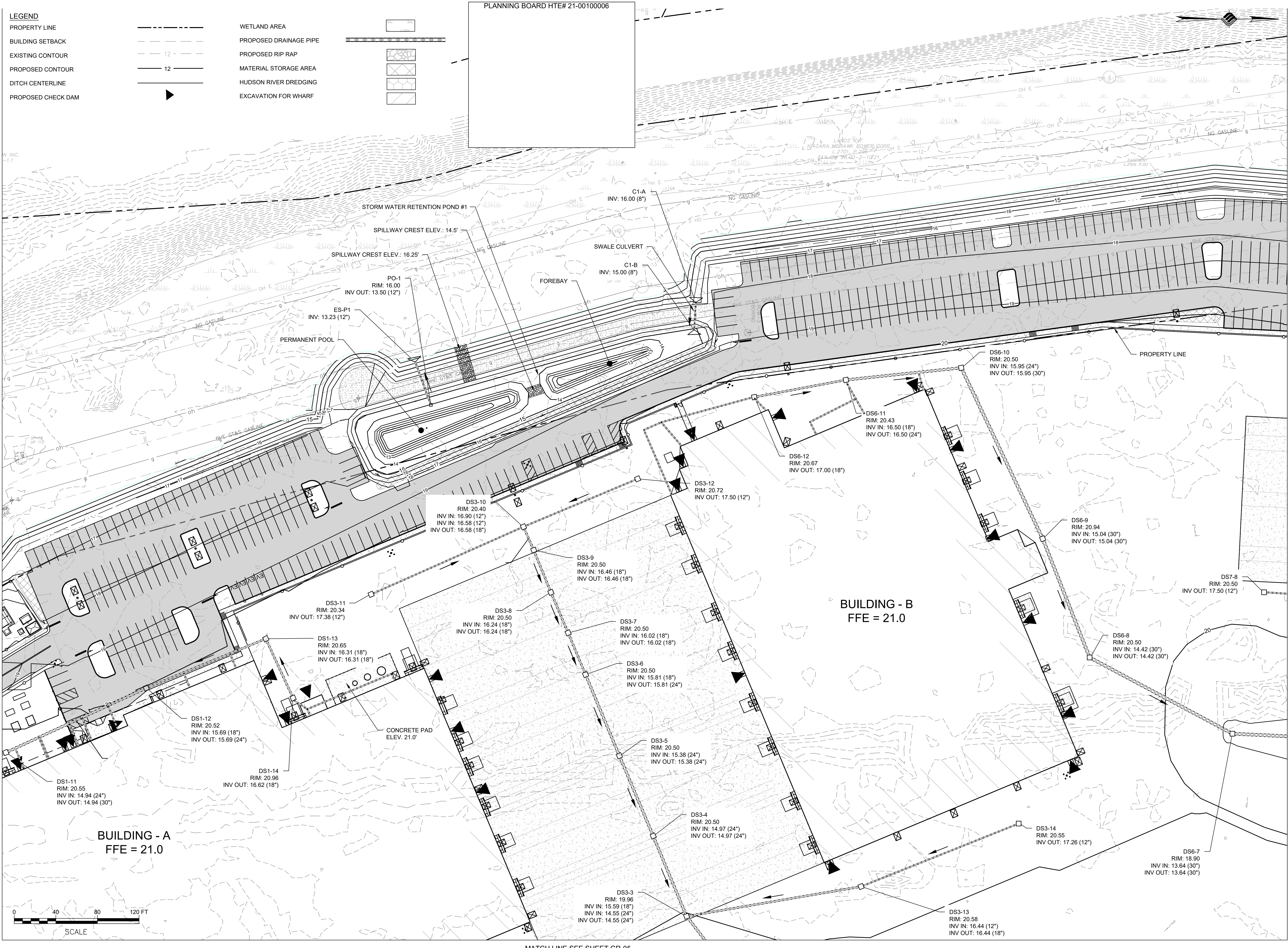
GRADING & DRAINAGE


DRAWING NUMBER

GR-01

20 OF 69







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ALBANY, NEW YORK

PROJECT: **PORT OF ALBANY EXPANSION SITE**

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DATE: 05/10/2022

PROJECT: 18641.00



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GRADING & DRAINAGE

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GR-02

21 OF 69



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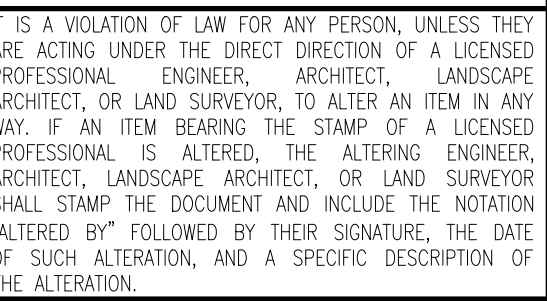
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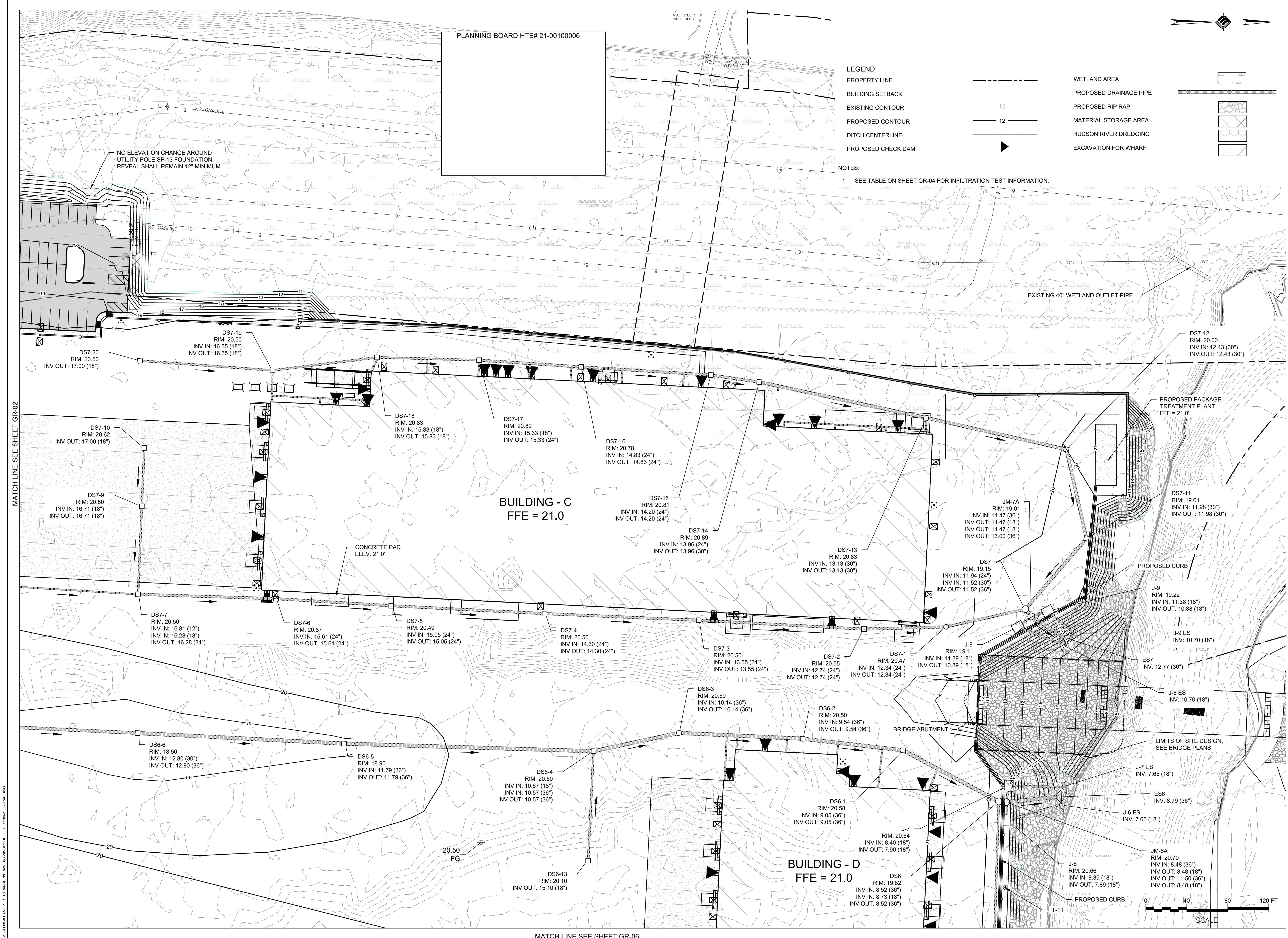
RAWING TITLE

GRADING & DRAINAGE

RAWING NUMBER

GR-03

2 OF 69



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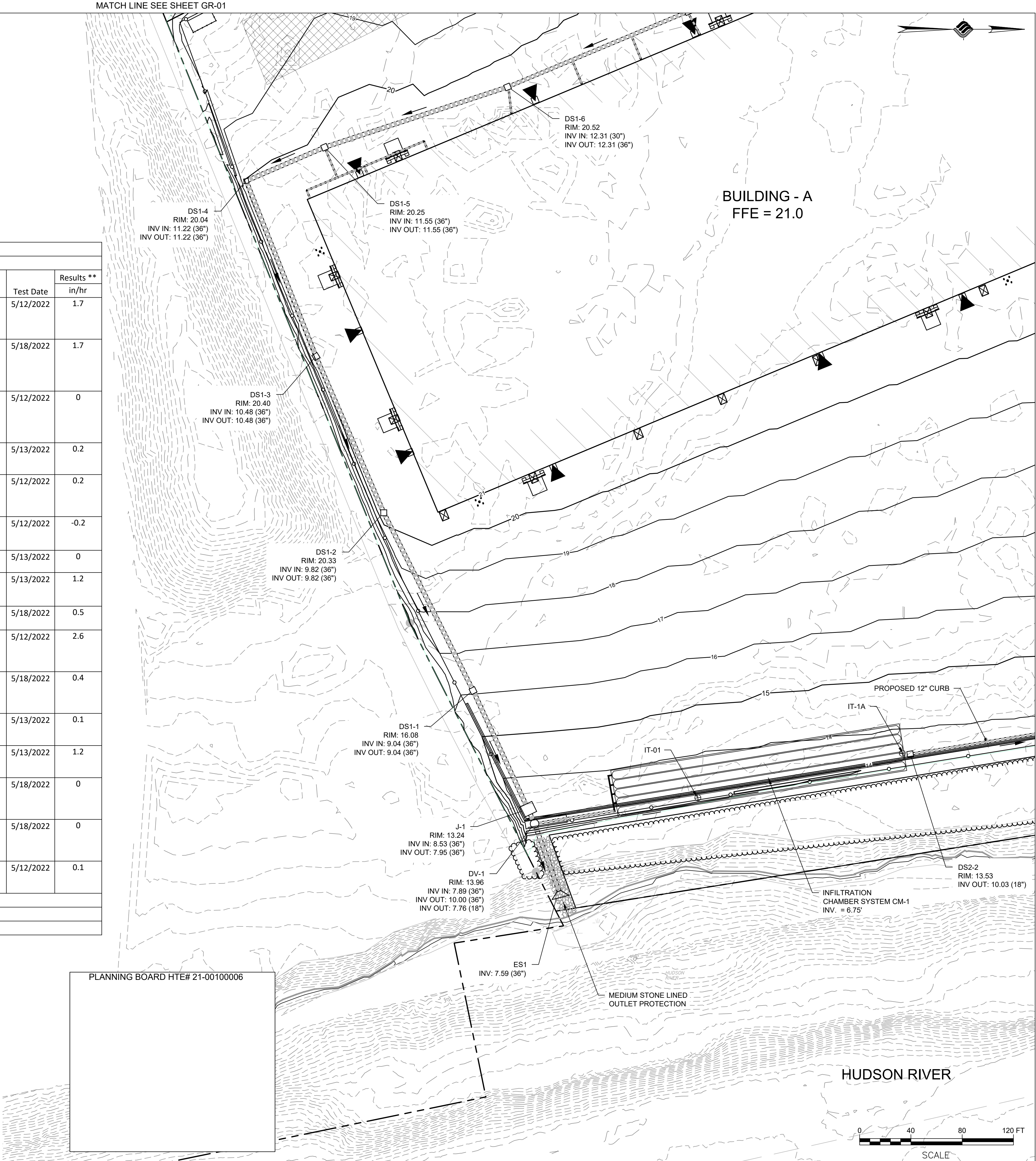
MATCH LINE SEE SHEET GR-01

Port of Albany Expansion Site										
Infiltration Test Information Table										
Test #	Location				Soil Profile ***	Test Elev.	EG Elev. *	FG Elev.	Test Date	Results **
	Northing	Easting	Lat	Long						in/hr
1	1373126.03	690476.39	N042° 36' 00.83"	W073° 45' 47.69"	0-0.3' Topsoil 0.3-3.5' FILL - Silty Sand 3.5-11.0' FILL - Coal Ash 11.0-14.0' SILT	6.5'	16.6'	14.2'	5/12/2022	1.7
1A	1373285.45	690441.73	N042° 36' 02.41"	W073° 45' 48.14"	0-3.5' FILL - Silty Sand with Gravel 3.5-9.0' FILL - Coal Ash 9.0-11.0' FILL - Poorly graded Sand	6.5'	14.3'	14.5'	5/18/2022	1.7
2	1373428.1	690427.42	N042° 36' 03.82"	W073° 45' 48.31"	0-1.0' Topsoil 1.0-2.0' FILL - Sandy Silt 2.0-8.5' FILL - Silty Sand 8.5-10.0' Sandy Silt 10.0-12.0' SILT	6.5'	15.3'	14.8'	5/12/2022	0
3	1373669.92	690372.95	N042° 36' 06.21"	W073° 45' 49.01"	0-0.5' Topsoil 0.5-3.0' FILL - Silty Sand 3.0-8.0' SILT	6.5'	10.8'	13.7'	5/13/2022	0.2
4	1373828.59	690333.82	N042° 36' 07.78"	W073° 45' 49.51"	0-6.0' FILL - Sandy Silt with Gravel 6.0-8.0' Varved Silt and Clay 8.0-10.0' Silt with Sand	6.5'	12.8'	14.6'	5/12/2022	0.2
5	1374016.28	690316.2	N042° 36' 09.64"	W073° 45' 49.73"	0-3.0' FILL - Silty Sand 3.0-4.0' Silt 4.0-6.0' Poorly graded Sand	6.5'	9.1'	16.0'	5/12/2022	-0.2
6	1374286.56	690329.4	N042° 36' 12.31"	W073° 45' 49.52"	0-4.0' Silty Clay 4.0-8.0' Silt with Sand	6.5'	10.7'	15.5'	5/13/2022	0
7	1374550.28	690339.68	N042° 36' 14.91"	W073° 45' 49.35"	0-2.0' Varved Silt and Clay 2.0-5.5' Silt 5.5-6.0' Poorly graded Sand	6.5'	9.6'	16.1'	5/13/2022	1.2
7A	1374449.39	690328.11	N042° 36' 13.92"	W073° 45' 49.52"	0-2.5' Silty Clay 2.5-8.0' Sandy Silt	6.5'	11.2'	15.5'	5/18/2022	0.5
8	1375558.9	690328.24	N042° 36' 24.88"	W073° 45' 49.39"	0-2.5' Topsoil 2.5-6.5' FILL - Silty Sand 6.5-8.0' Silty Clay 8.0-10.0' SILT	6.5'	12.4'	17.4'	5/12/2022	2.6
8A	1375555.8	690230.63	N042° 36' 24.86"	W073° 45' 50.69"	0-4.5' Silty Sand 4.5-6.0' Silt 6.0-8.0' Silty Sand 8.0-12.0' SILT	6.5'	14.8'	17.6'	5/18/2022	0.4
9	1375569.02	690181.72	N042° 36' 24.99"	W073° 45' 51.35"	0-5.0' Silty Sand 5.0-8.0' Silt with Sand 8.0-10.0' Silt	6.5'	13.6'	19.1'	5/13/2022	0.1
10	1375581.89	689989.53	N042° 36' 25.13"	W073° 45' 53.91"	0-9.0' Silt with Sand 9.0-12.0' Silty Clay 12.0-14.0' SILT	6.5'	17.3'	20.6'	5/13/2022	1.2
10A	1375579.21	690067.6	N042° 36' 25.10"	W073° 45' 52.87"	0-0.5' Topsoil 0.5-7.5' Sandy Silt 3.5-11.0' FILL - Coal Ash 11.0-14.0' SILT	6.5'	17.4'	20.6'	5/18/2022	0
10B	1375586.34	689908.31	N042° 36' 25.18"	W073° 45' 55.00"	0-2.0' No Results 2.0-6.0' Vared Silt and Clay 6.0-10.5' Sandy Silt 10.5-13.0' SILT	6.5'	16.7'	20.8'	5/18/2022	0
11	1375587.41	689824.53	N042° 36' 25.20"	W073° 45' 56.12"	0-0.5' Topsoil 0.5-7.0' Silt with Sand 7.0-12.0' Silt	6.5'	15.4'	20.6'	5/12/2022	0.1

* Note EG elevations may have changed from the tree clearing work.

** Represents result of final trial at each location.

*** Summary of soil profiles, see Terracon Infiltration Testing Results Letter Dated June 7, 2022 for more detailed descriptions.



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
2	06/06/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

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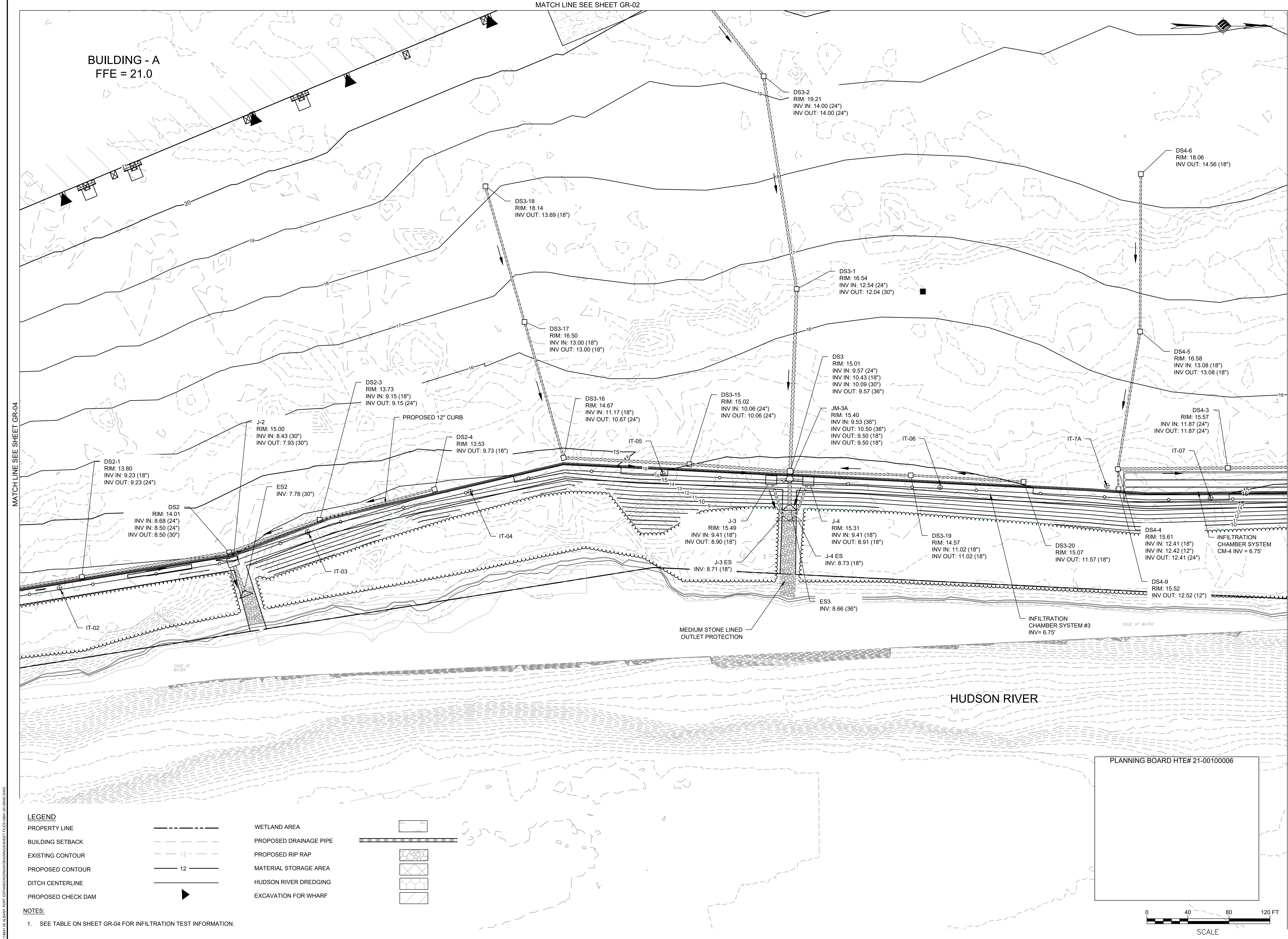
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DRAWING TITLE

GRADING & DRAINAGE

DRAWING NUMBER

GR-04



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STATE OF NEW YORK
SEAL OF THE STATE ENGINEER
088870
PROFESSIONAL ENGINEER

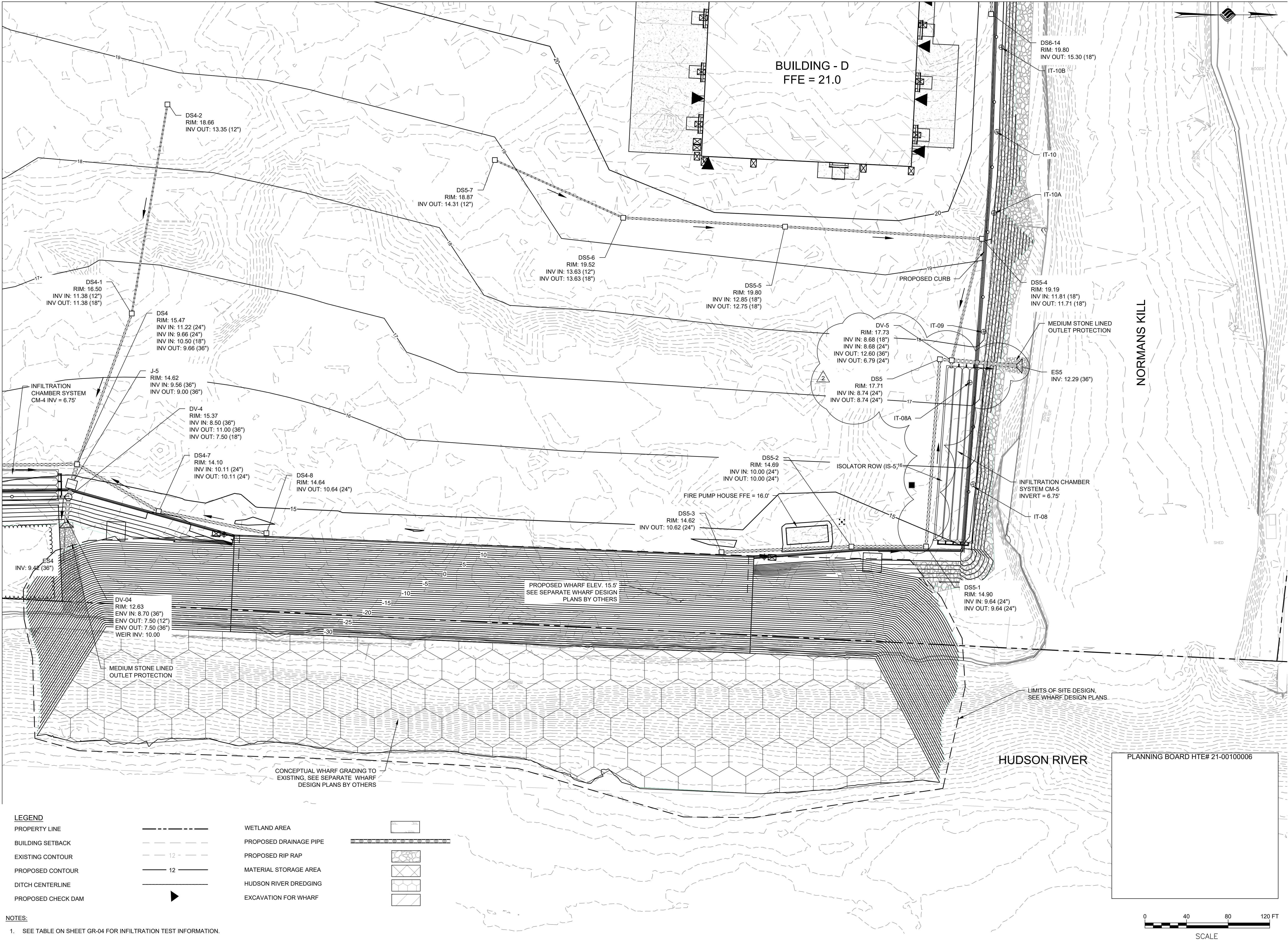
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE
GRADING & DRAINAGE

DRAWING NUMBER
GR-05

24 OF 69

MATCH LINE SEE SHEET GR-03



LEGEND

- PROPERTY LINE
BUILDING SETBACK
EXISTING CONTOUR
PROPOSED CONTOUR
DITCH CENTERLINE
PROPOSED CHECK DAM

- WETLAND AREA
PROPOSED DRAINAGE PIPE
PROPOSED RIP RAP
MATERIAL STORAGE AREA
HUDSON RIVER DREDGING
EXCAVATION FOR WHARF

NOTES:

1. SEE TABLE ON SHEET GR-04 FOR INFILTRATION TEST INFORMATION.



McFarland Johnson

60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE

FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
2	06/06/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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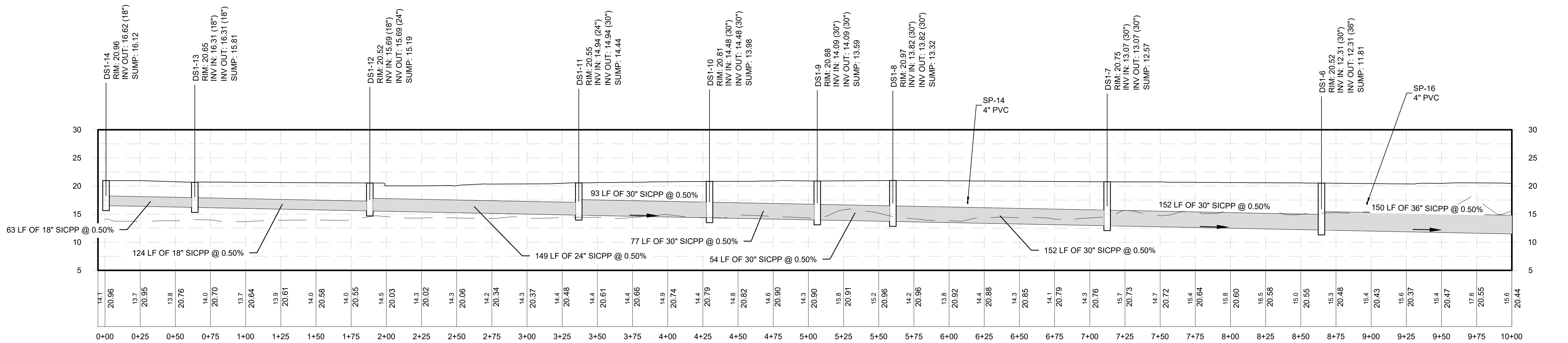
DRAWING TITLE

GRADING &
DRAINAGE

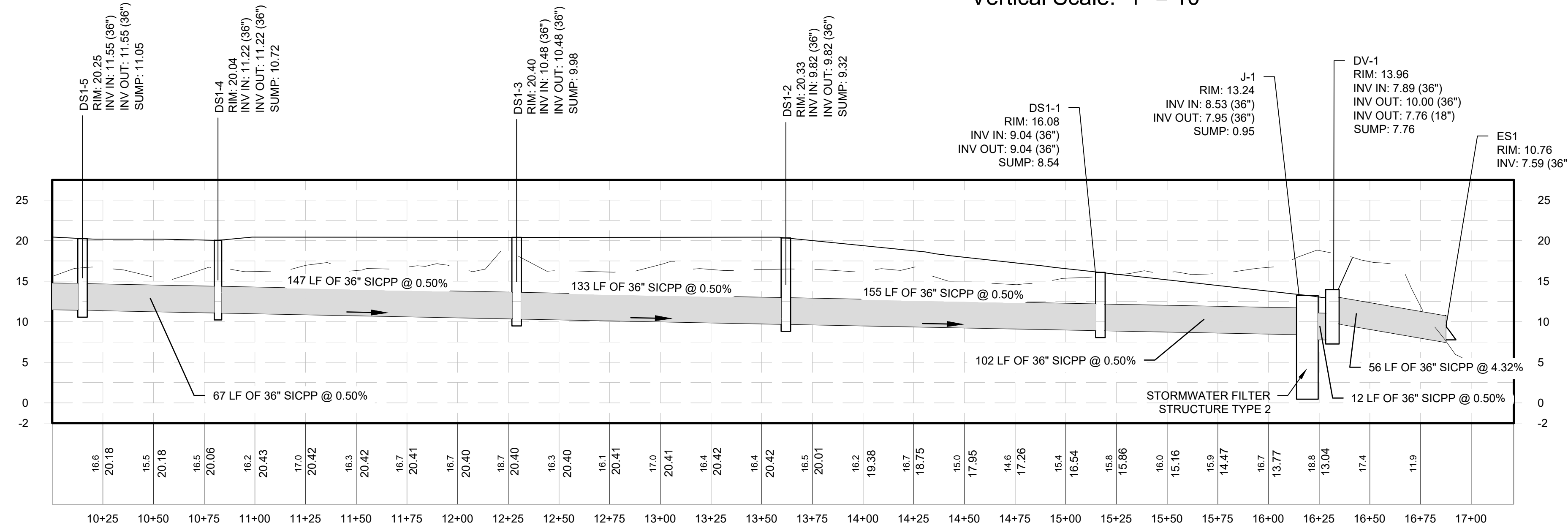
DRAWING NUMBER

GR-06

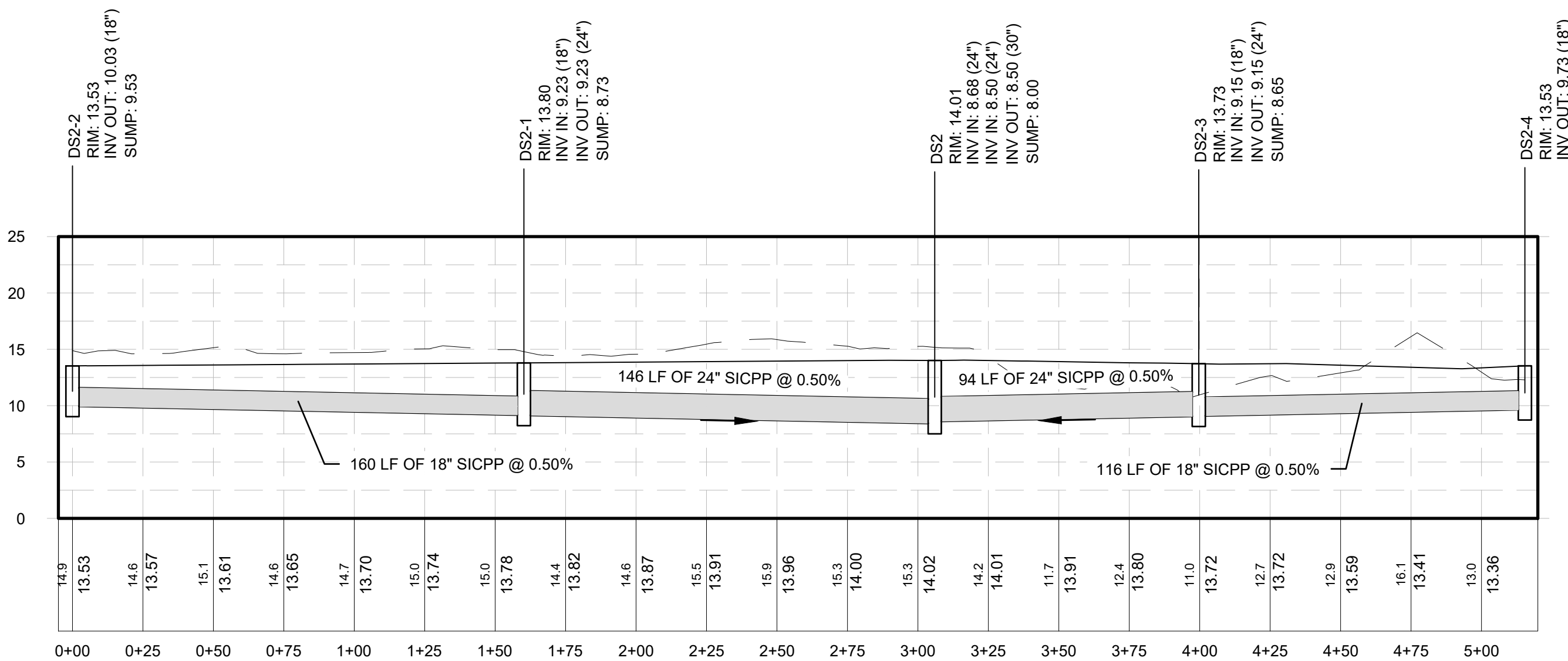
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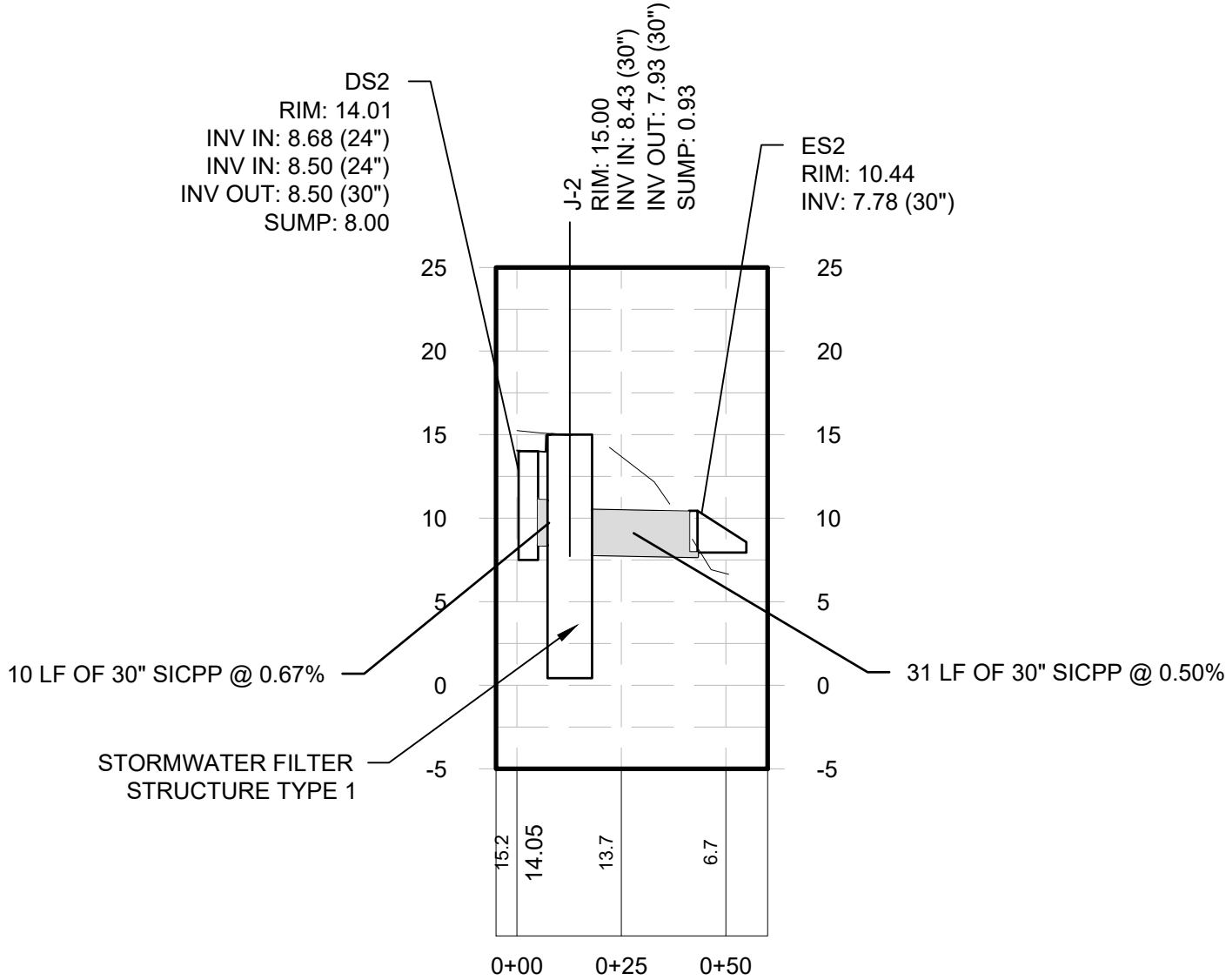
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Vertical Scale: 1" = 10'



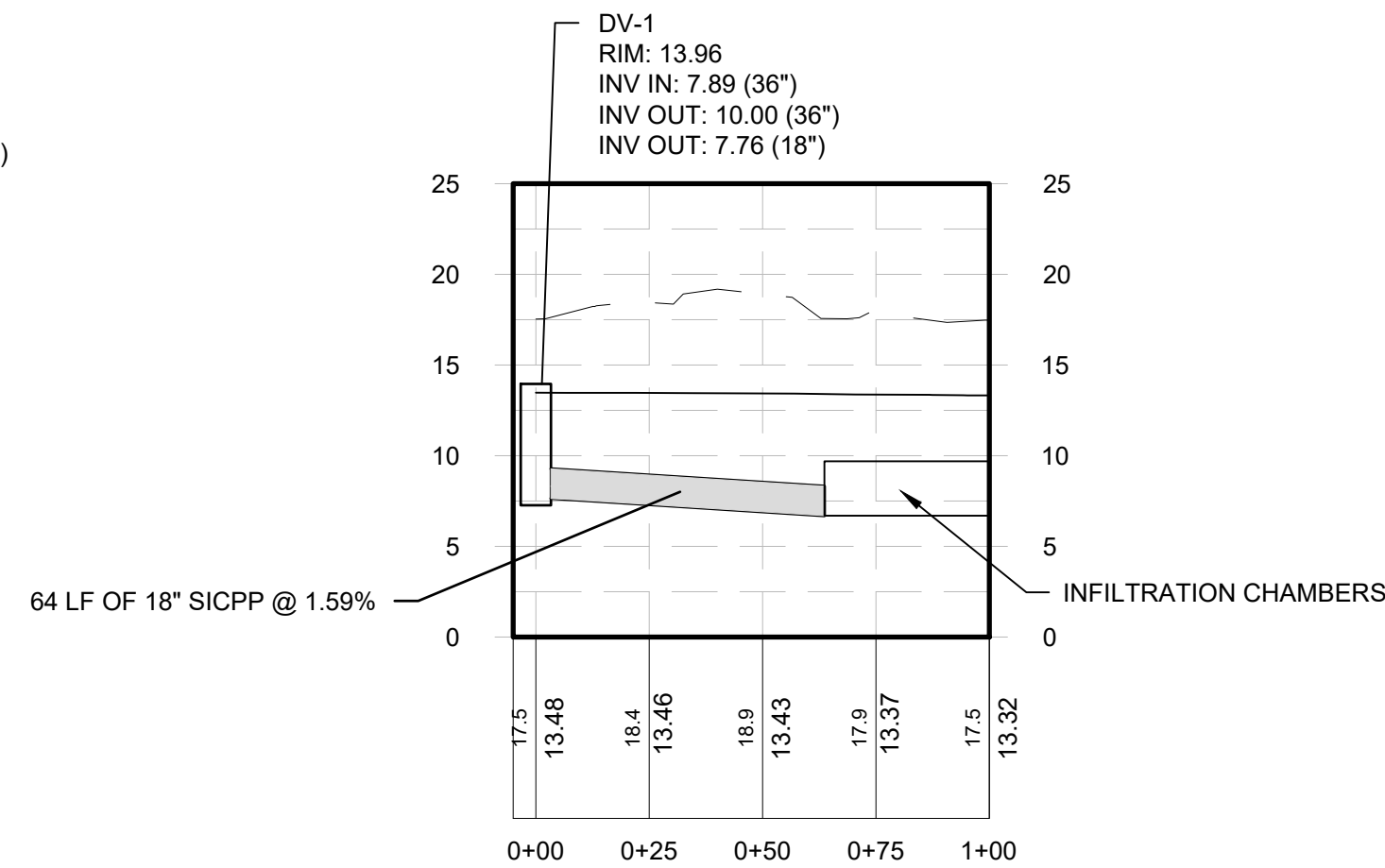
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Vertical Scale: 1" = 10'



NETWORK 2 (1 OF 2)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 2 (2 OF 2)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 1 (3 OF 3)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05/10/2022
PROJECT	18641.00



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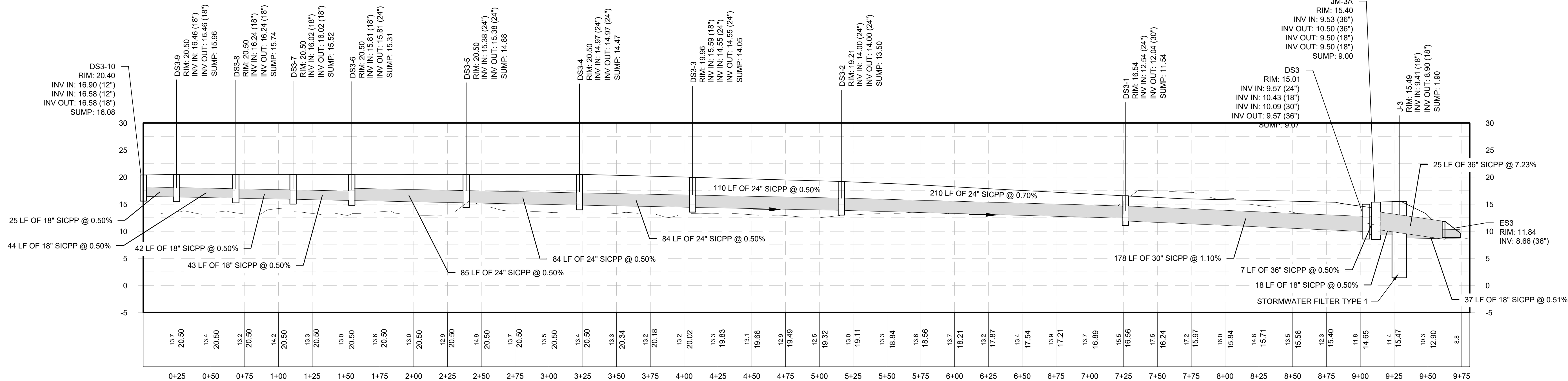
DRAWING TITLE

DRAINAGE PROFILES

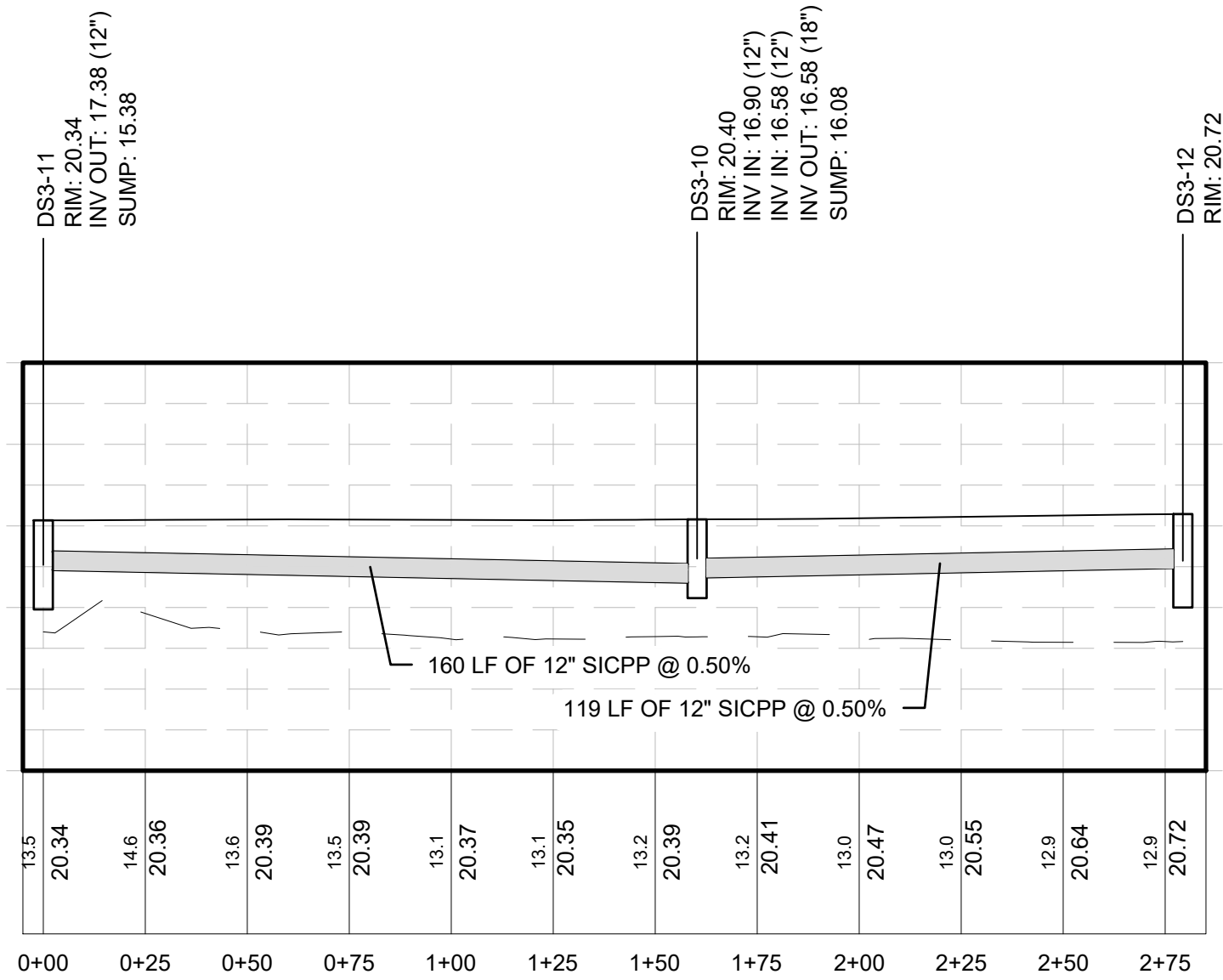
DRAWING NUMBER

GR-07

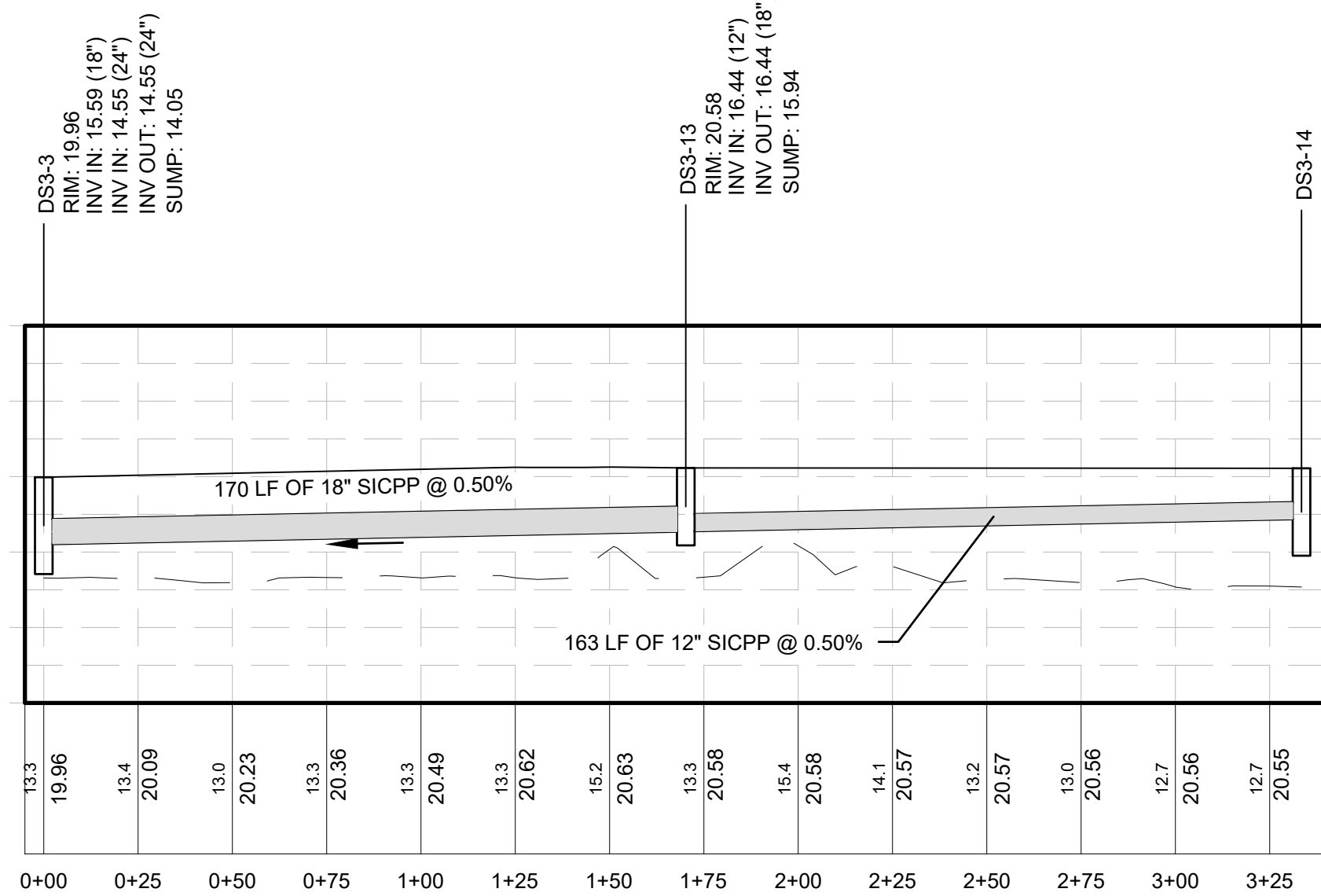
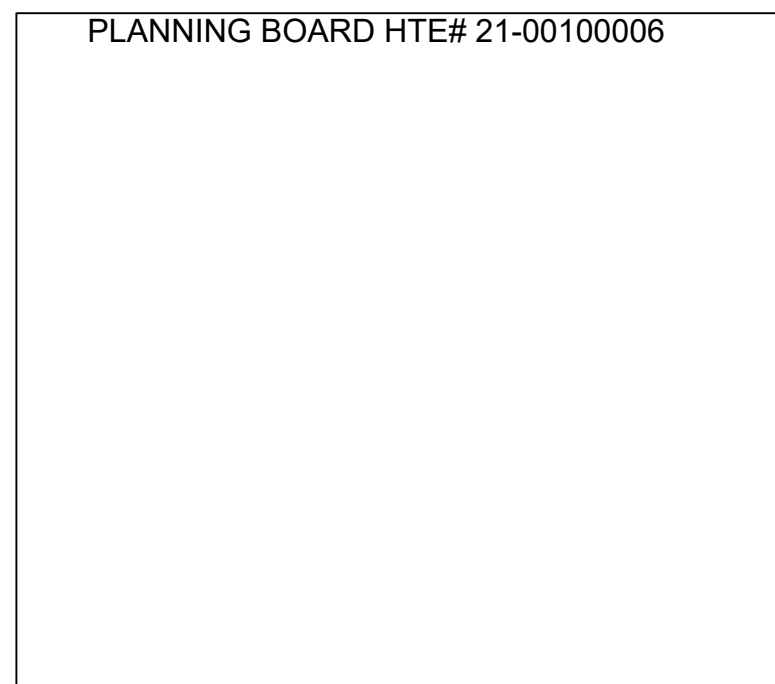
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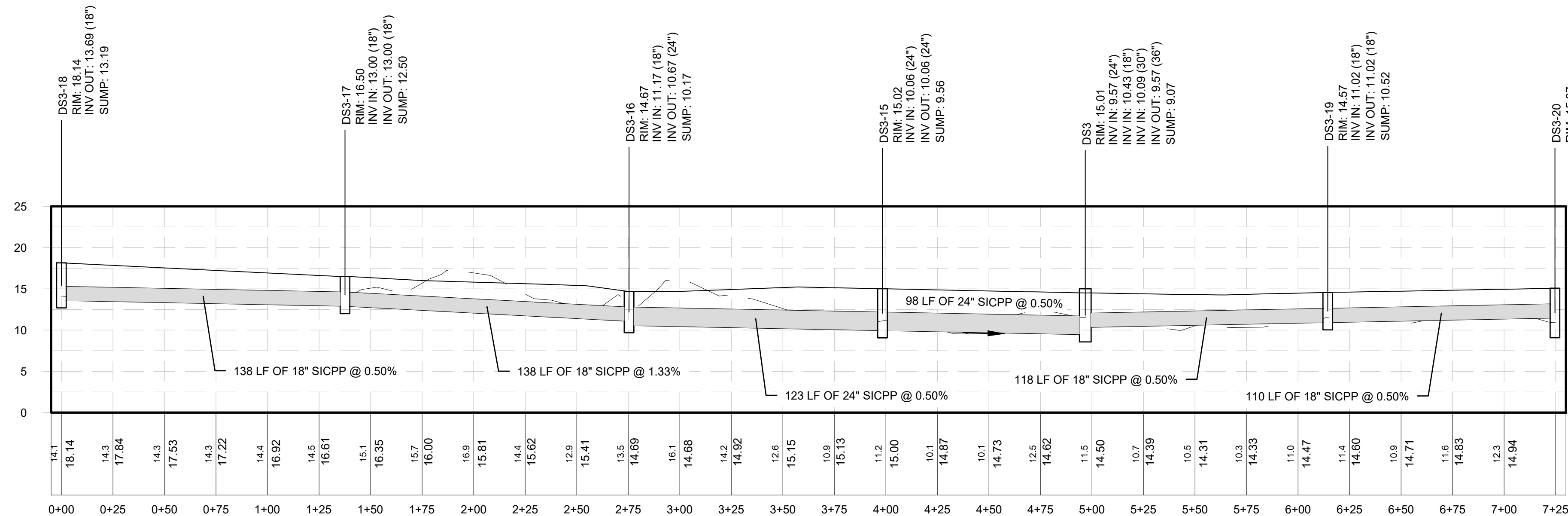
NETWORK 3 (1 OF 5)
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Vertical Scale: 1" = 10'



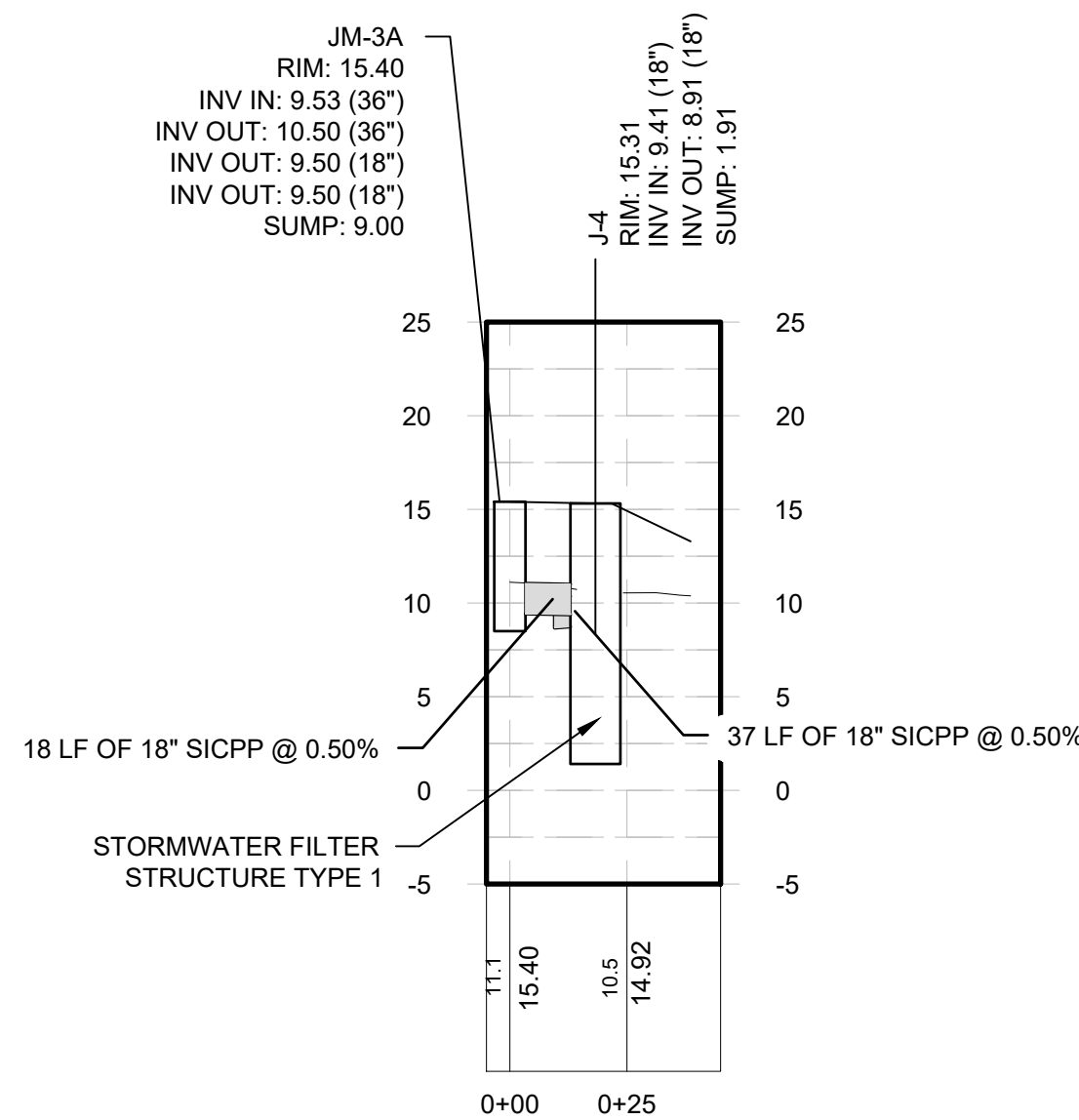
NETWORK 3 (2 OF 5)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 3 (3 OF 5)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 3 (4 OF 5)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 3 (5 OF 5)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05/10/2022
PROJECT	18641.00



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DRAWING TITLE

DRAINAGE PROFILES

DRAWING NUMBER

GR-08



McFarland Johnson
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ALBANY, NEW YORK

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SCALE	1"=40'
DATE	05/10/2022
PROJECT	18641.00



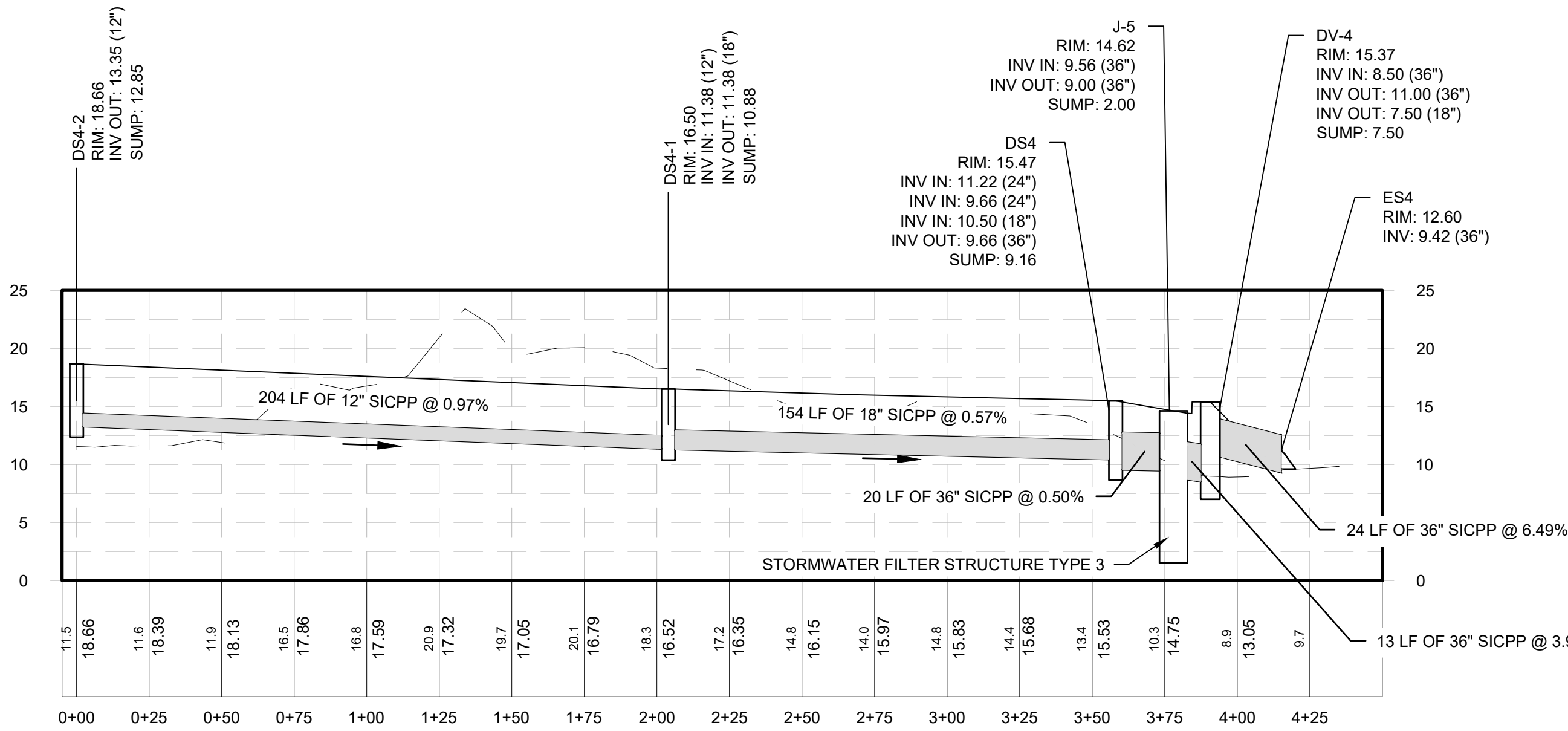
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DRAWING TITLE

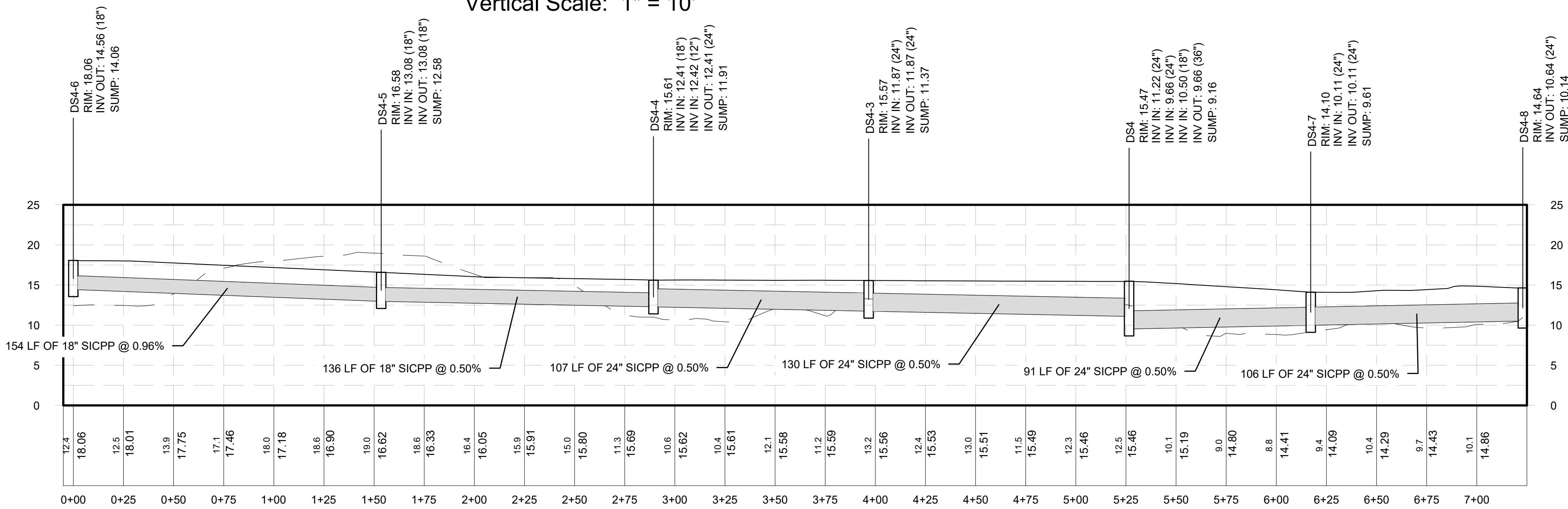
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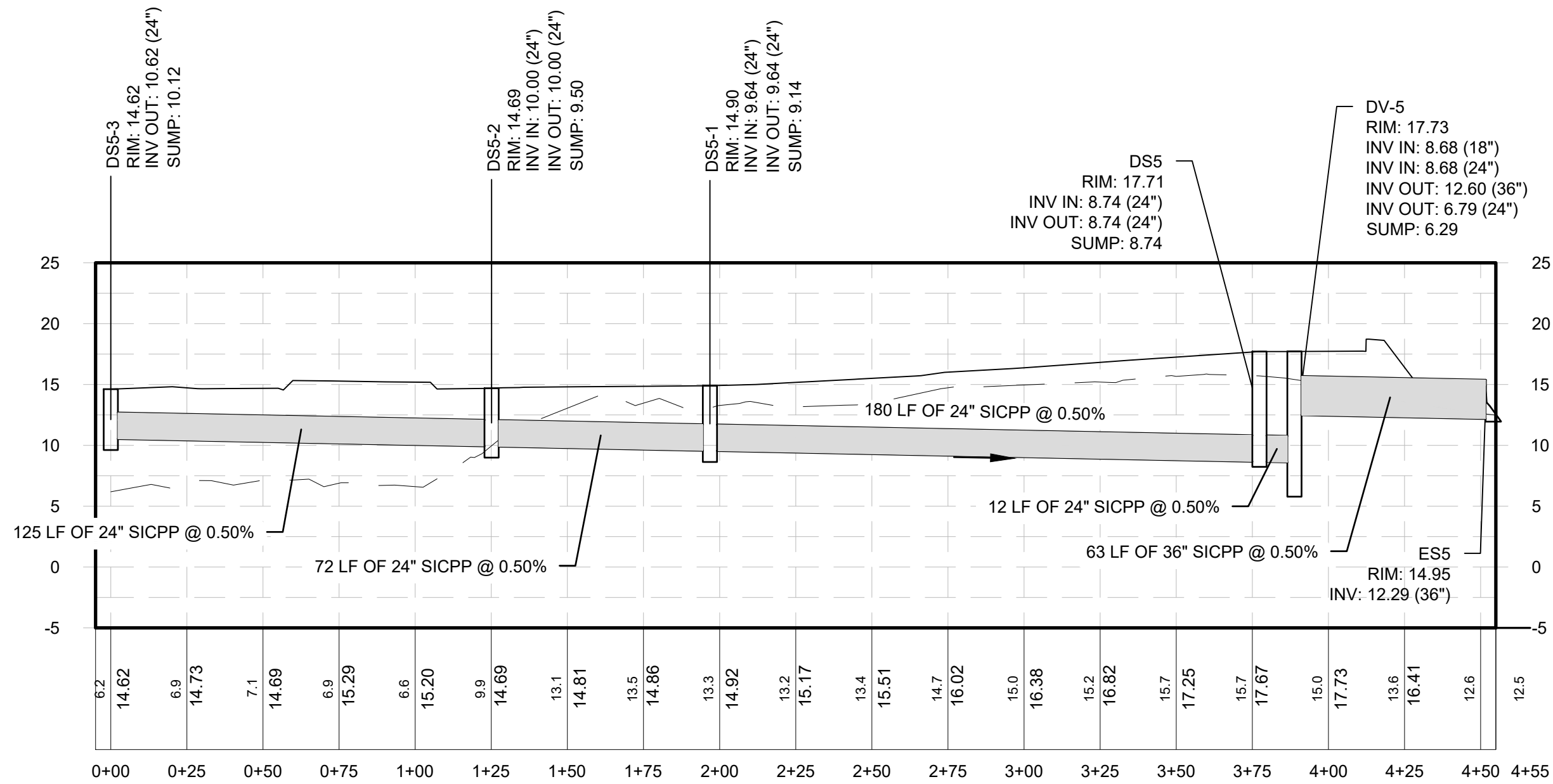
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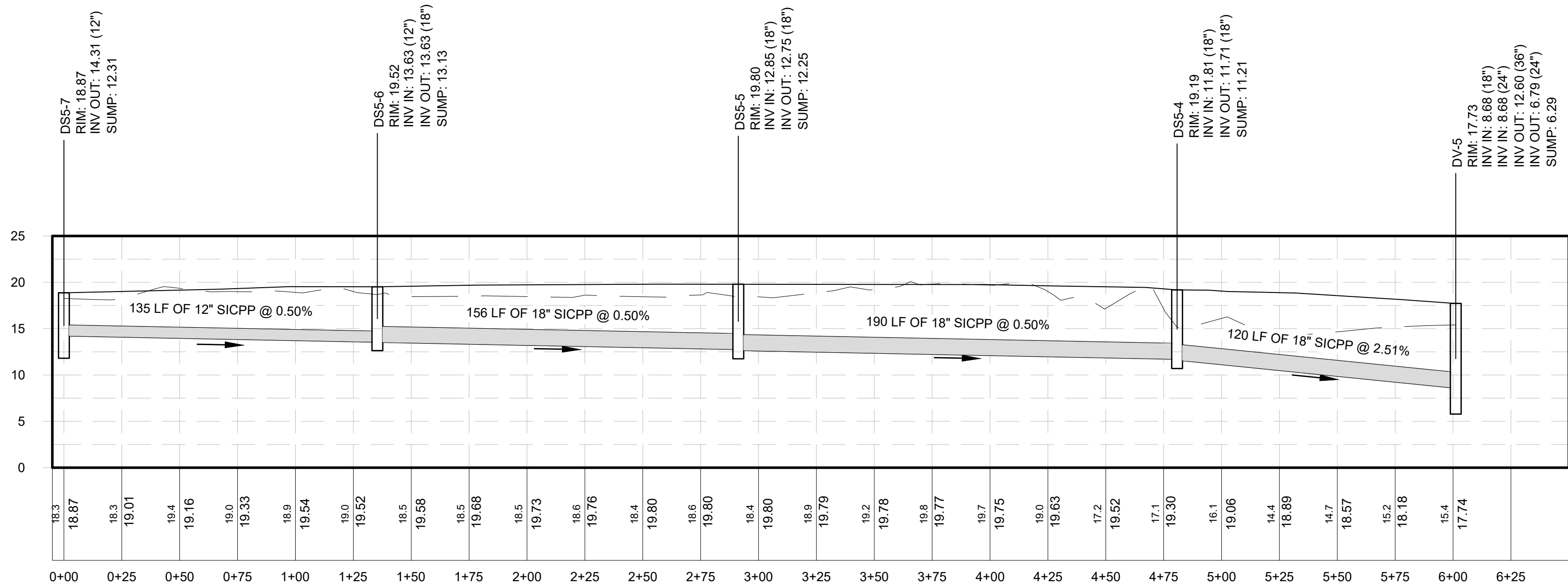
NETWORK 4 (1 OF 3)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 4 (3 OF 3)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 5 (1 OF 2)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 5 (2 OF 2)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'





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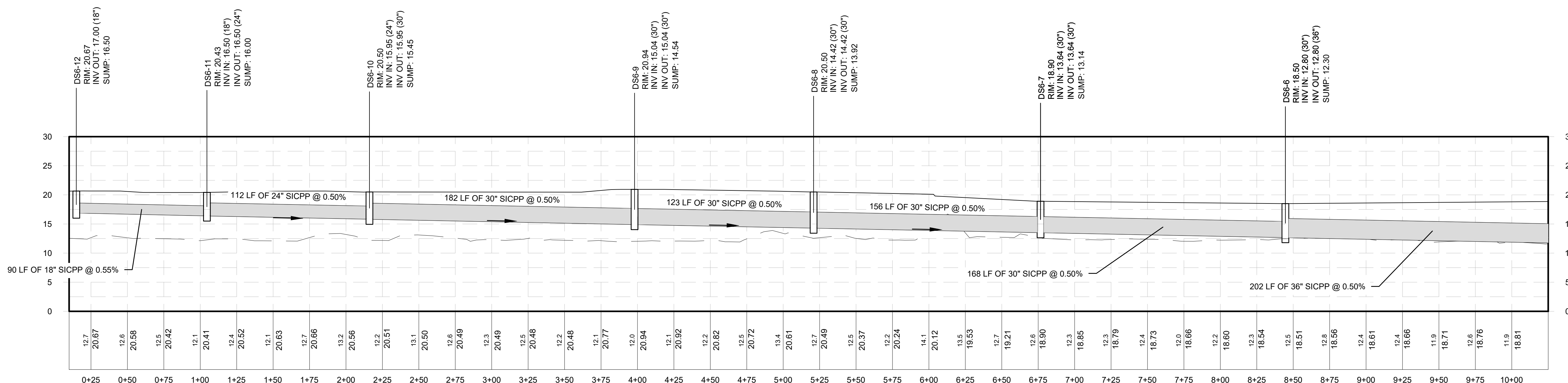
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DRAINAGE PROFILES

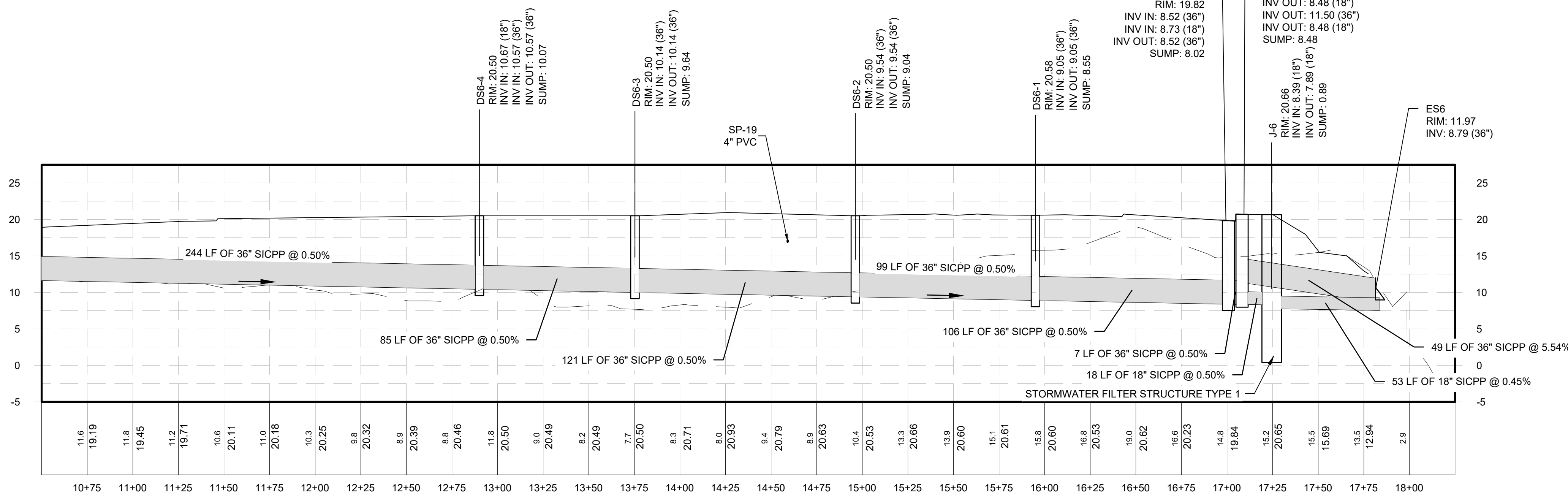
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GR-10

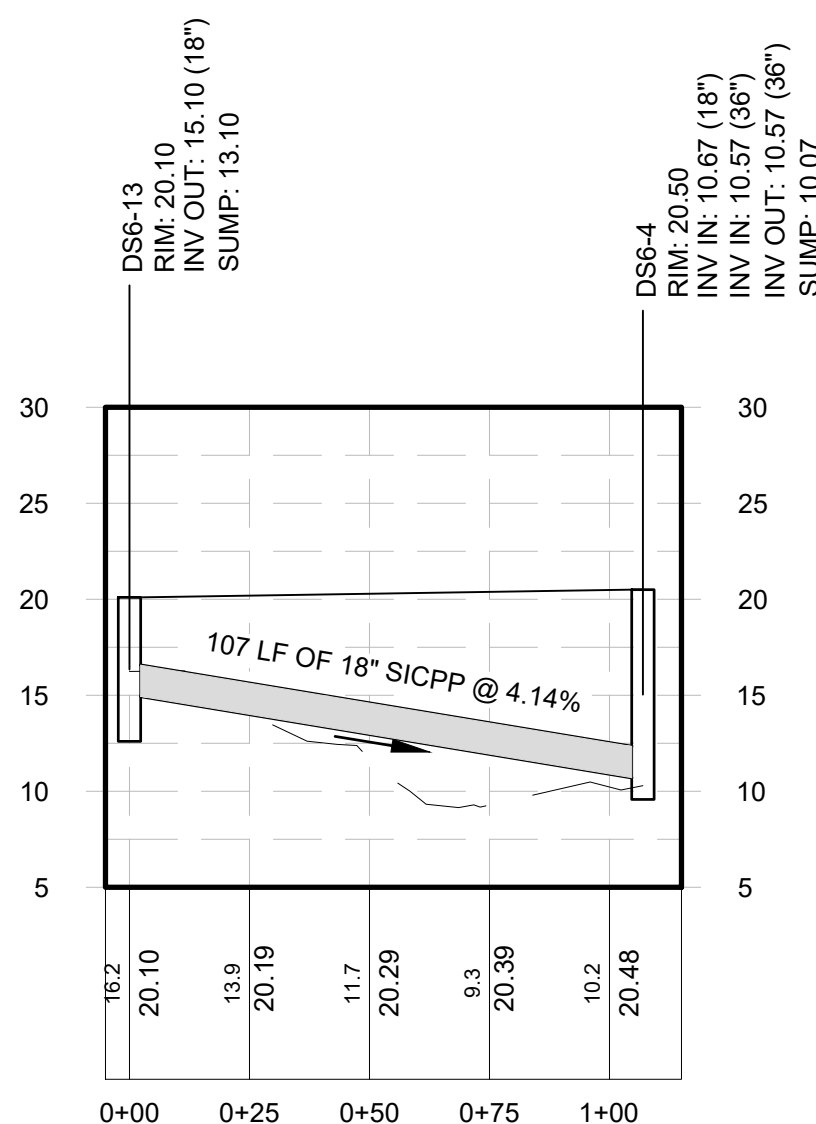
29 OF 69



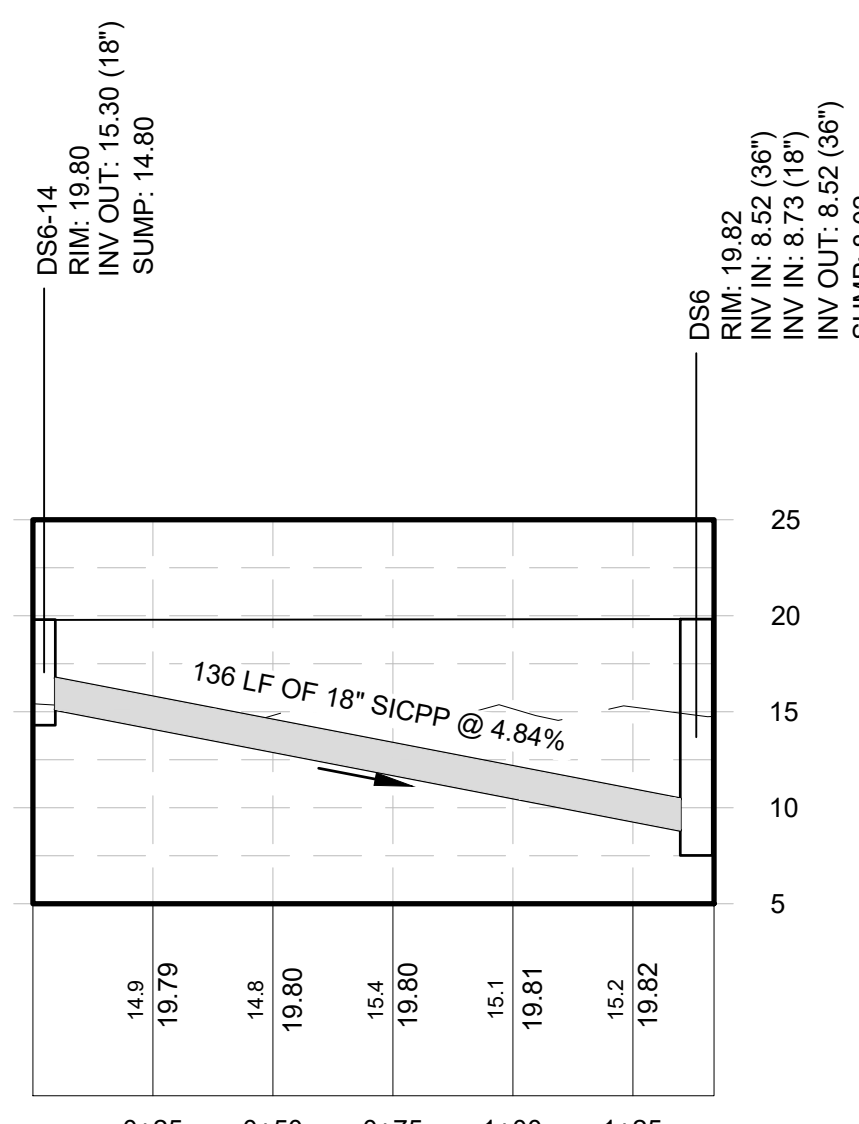
NETWORK 6 (1 OF 5)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



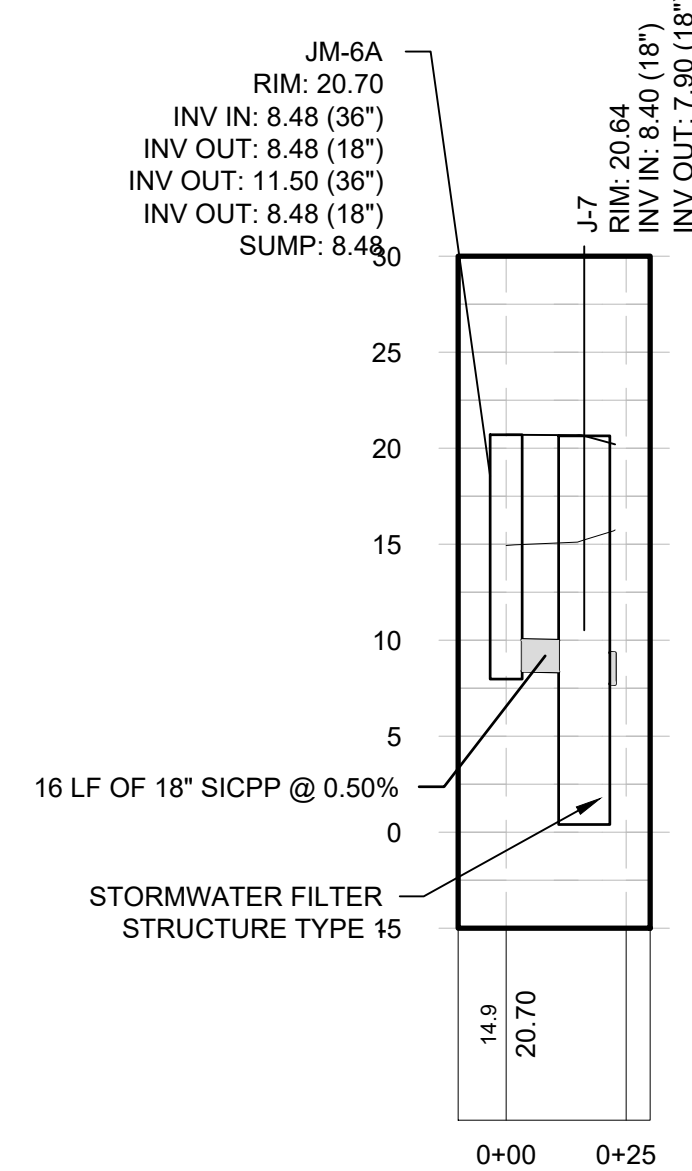
NETWORK 6 (2 OF 5)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 6 (3 OF 5)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 6 (4 OF 5)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

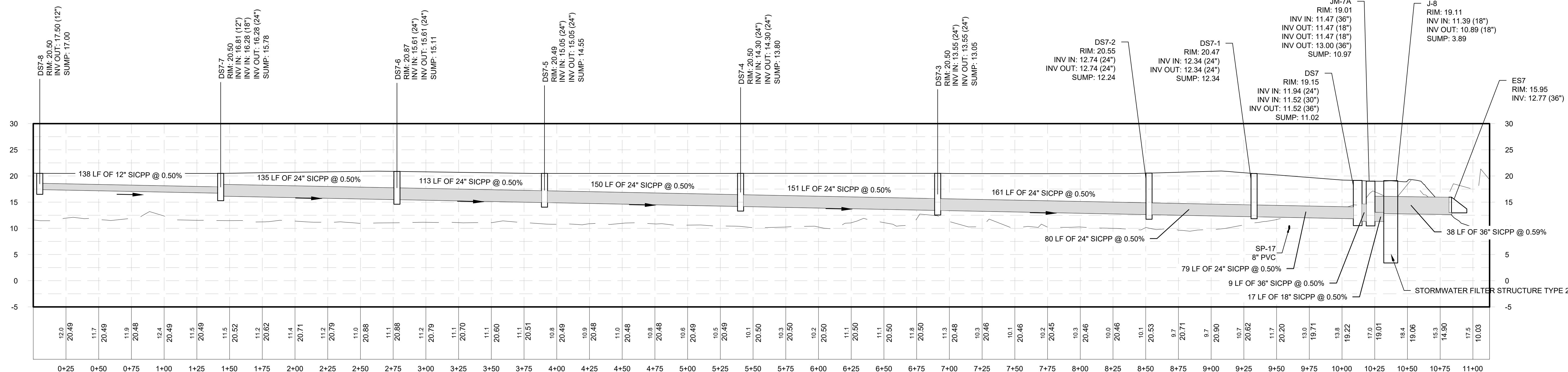


NETWORK 6 (5 OF 5)
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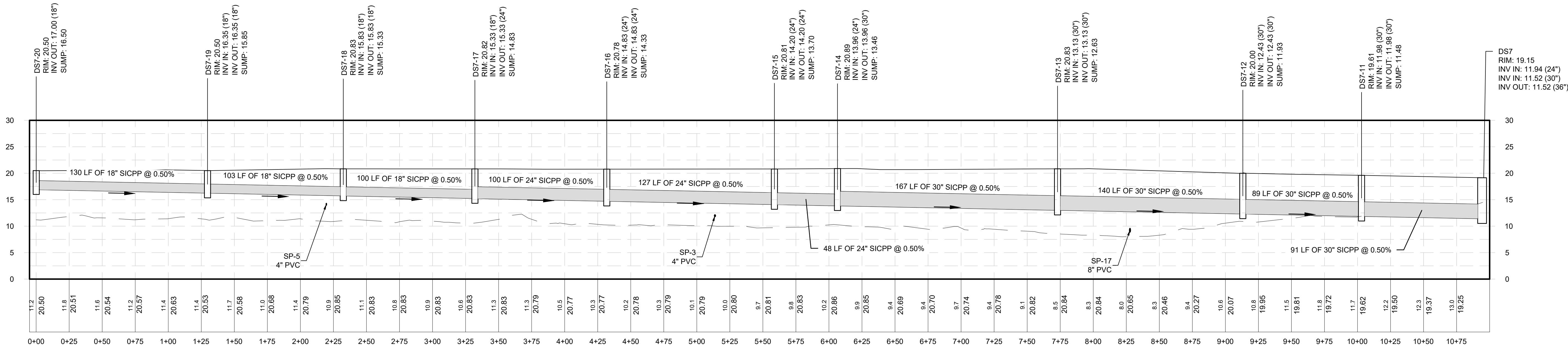


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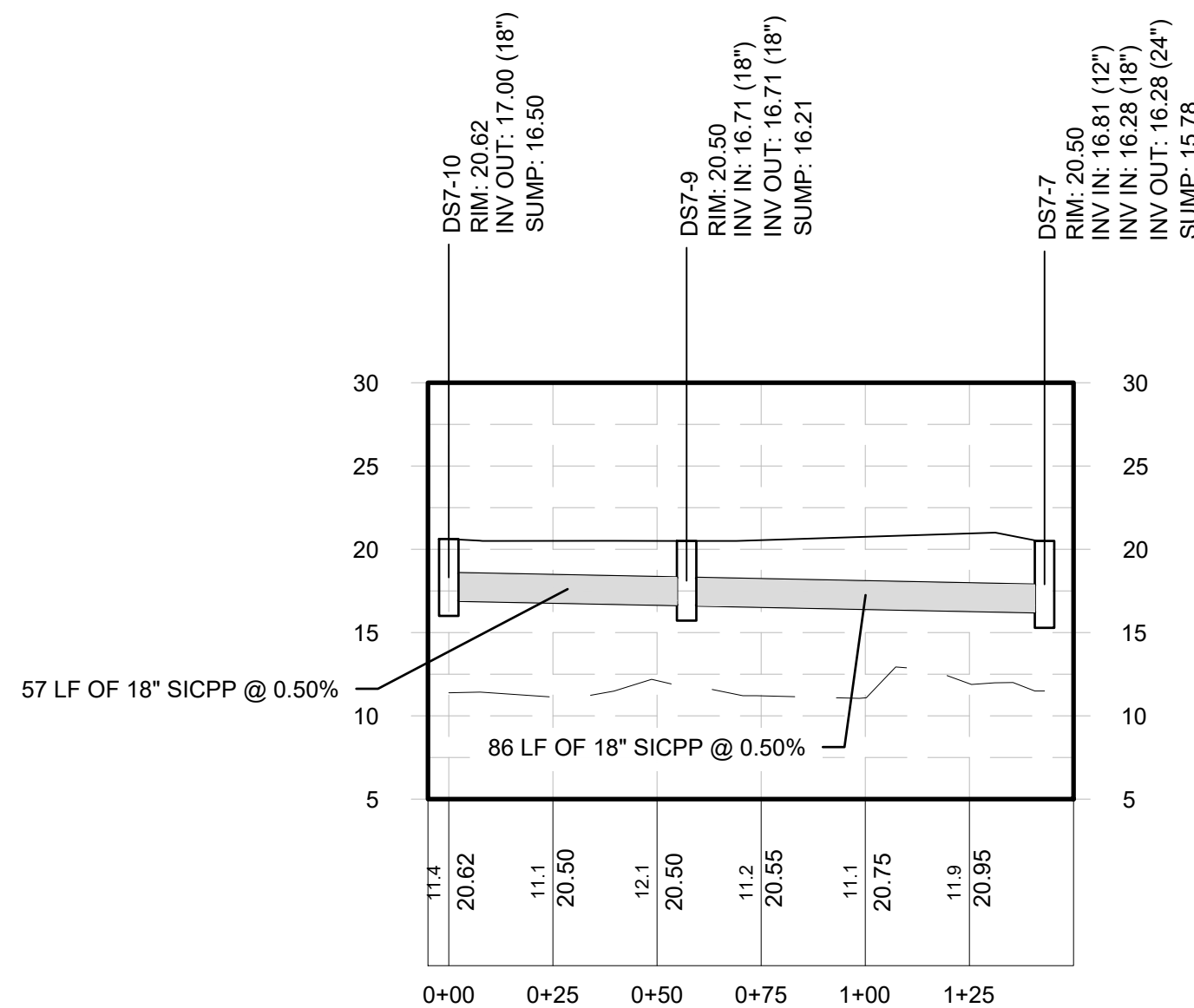
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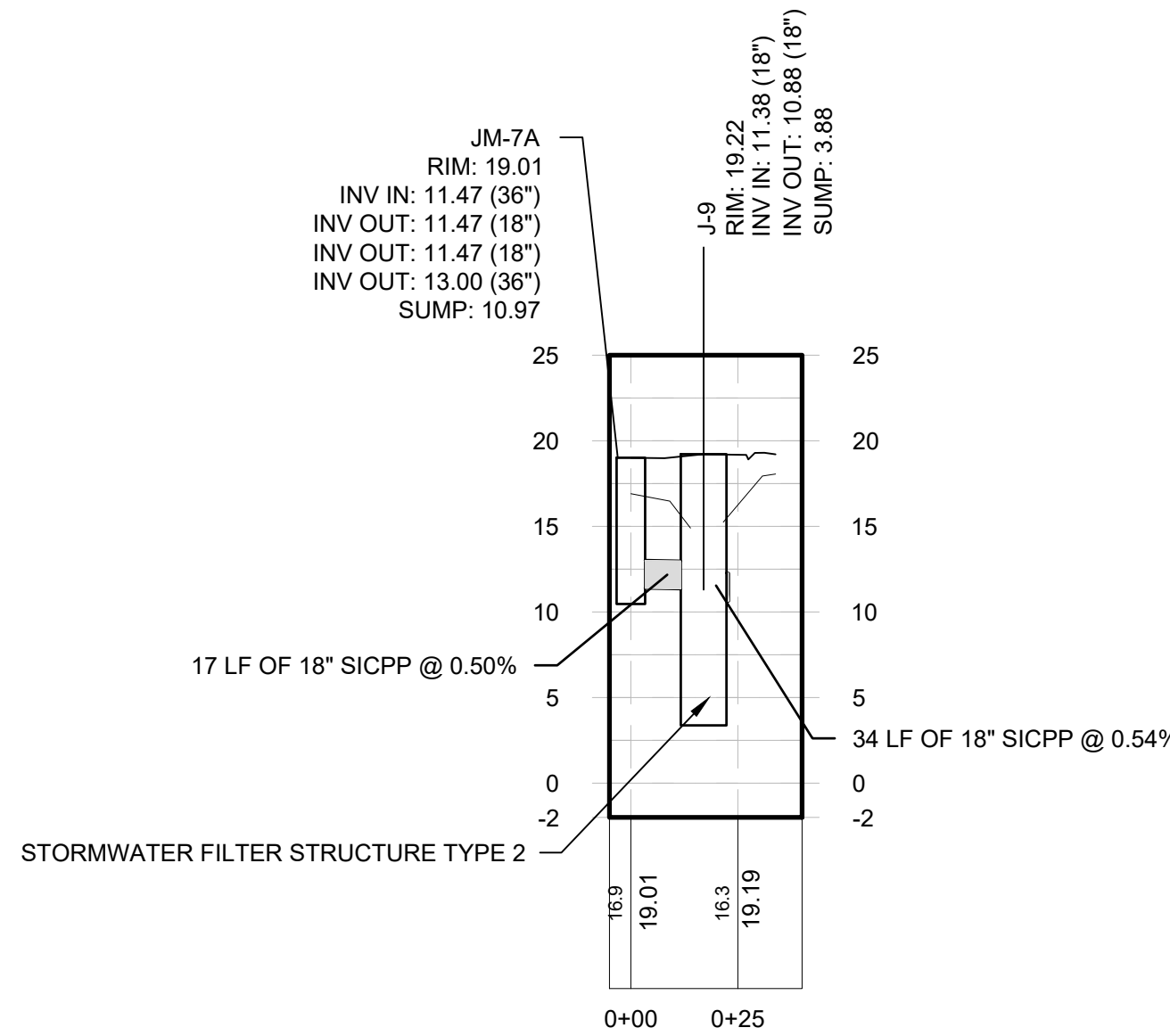
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Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 7 (2 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 7 (3 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



NETWORK 7 (4 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

PROJECT:
**ALBANY, NEW YORK
PORT OF ALBANY EXPANSION SITE**

DRAWN: JES
DESIGNED: NSO
CHECKED: AJF
SCALE: 1"=40'
DATE: 05/10/2022
PROJECT: 18641.00

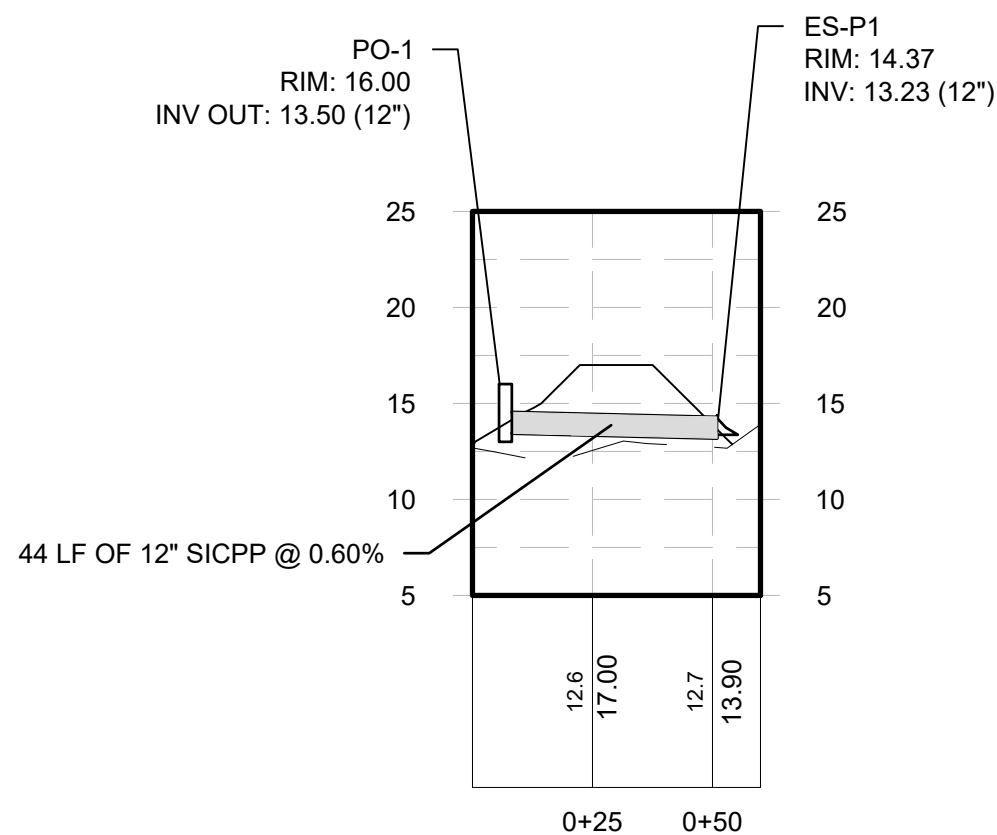
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DRAWING TITLE
DRAINAGE PROFILES

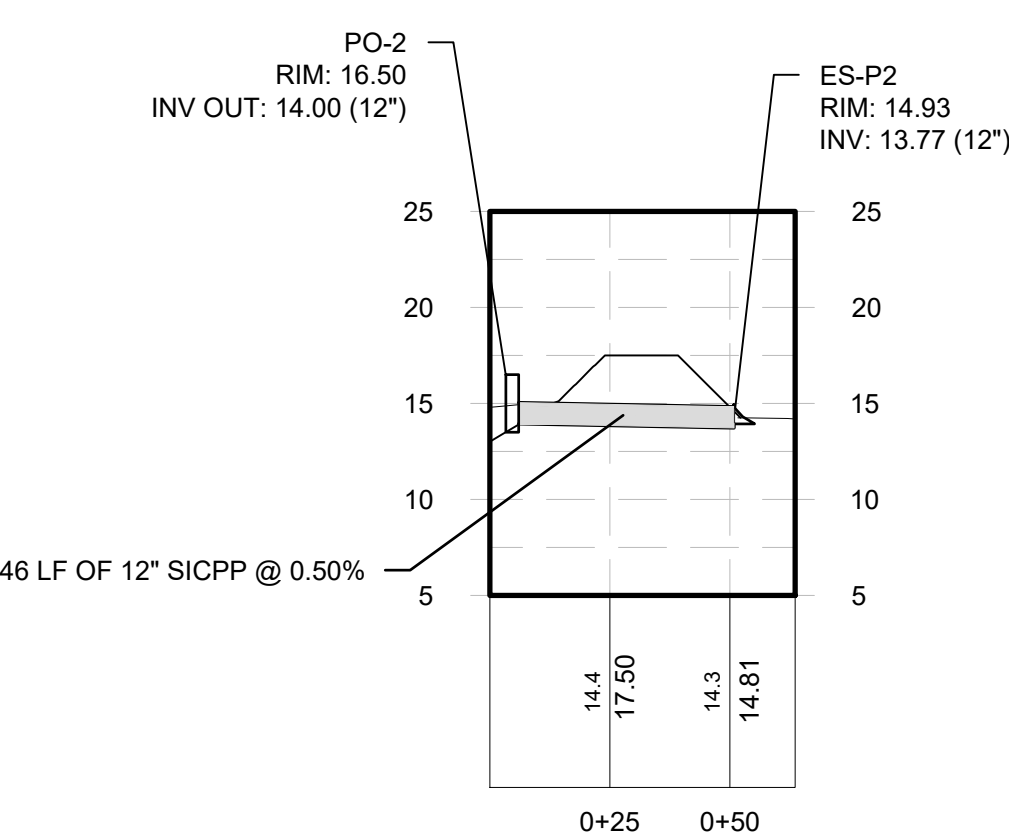
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GR-11

30 OF 69

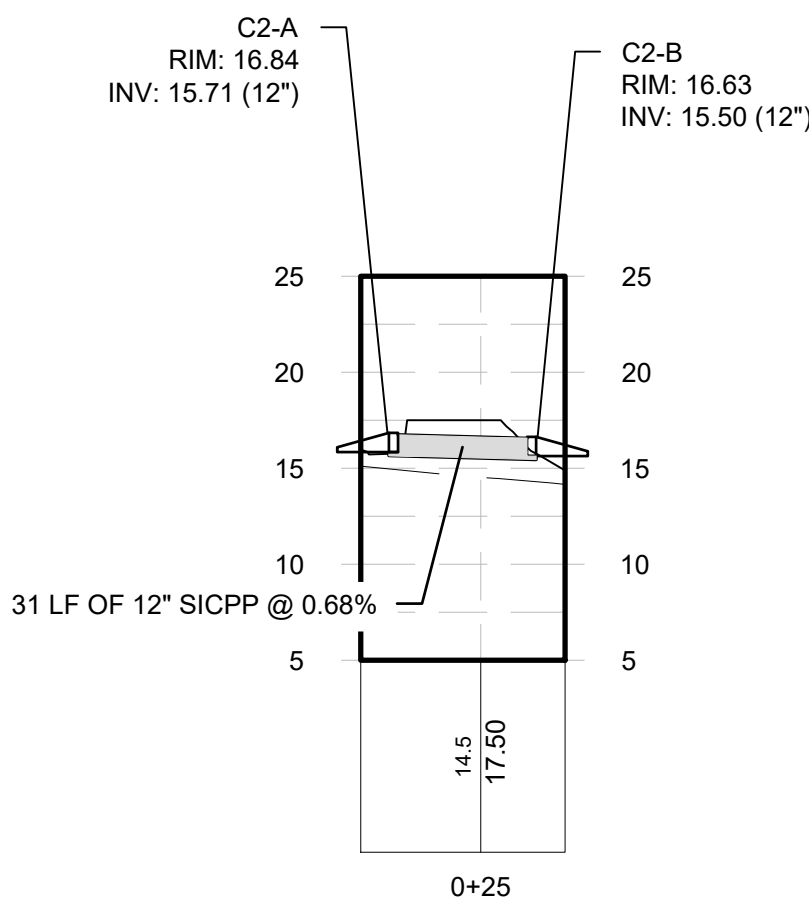
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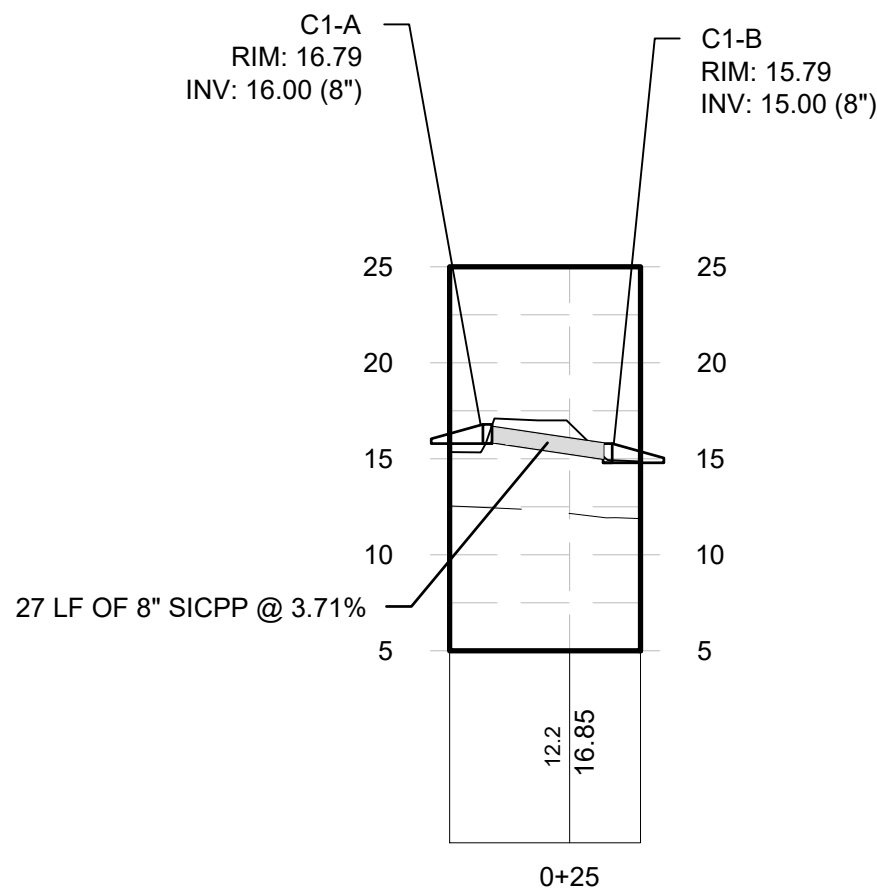
PO-1
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Vertical Scale: 1" = 10'



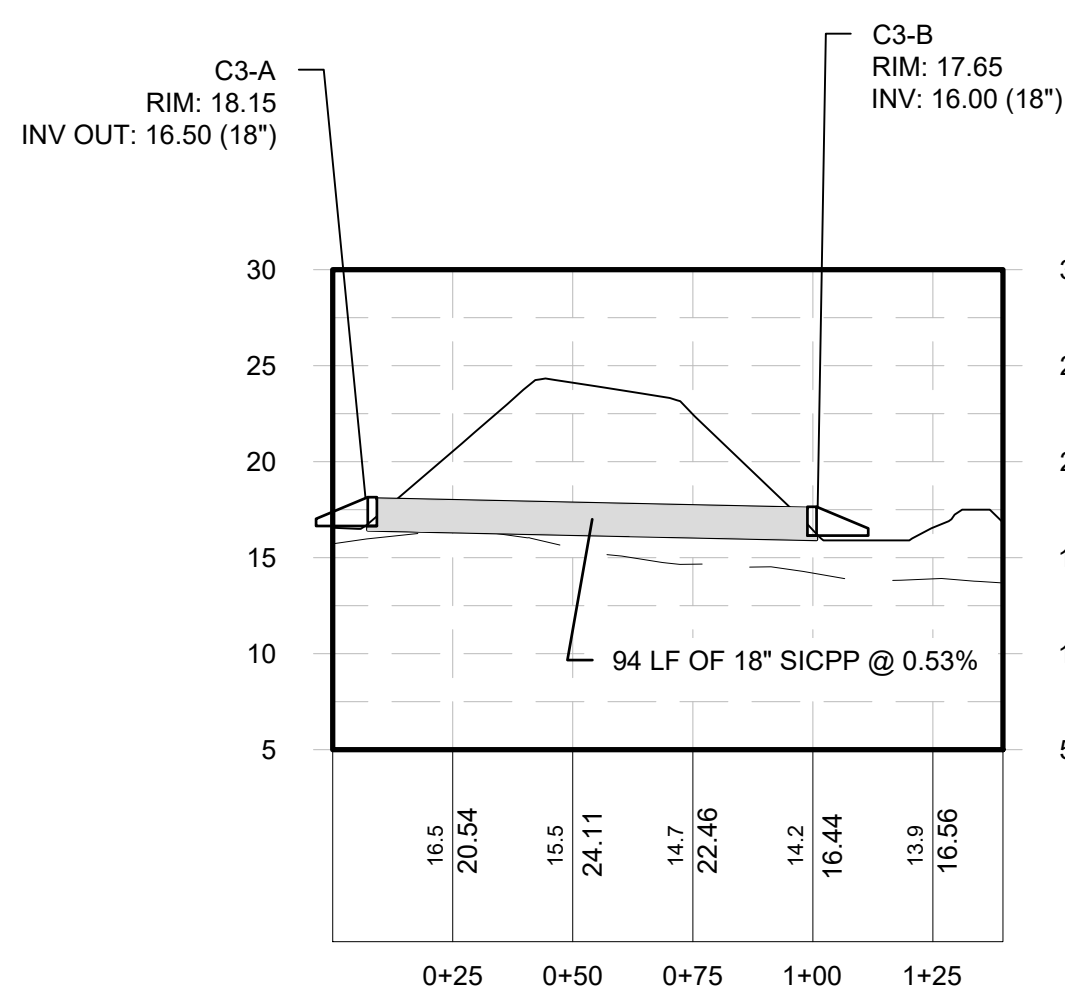
PO-2
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



Gravel Path Crossing 1
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



GRAVEL ROAD CROSSING 2
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



ENTRANCE ROAD CULVERT
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

STRUCTURE TABLE						
CULVERTS						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
C1-A	16.79		16.00 (C1)	CMP END SECTION	1374056.35	689250.62
C1-B	15.79	15.00 (C1)		CMP END SECTION	1374054.69	689277.52
C2-A	16.84		15.71 (C2)	CMP END SECTION	1373264.09	689583.52
C2-B	16.63	15.50 (C2)		CMP END SECTION	1373243.91	689606.59
C3-A	18.15		16.50 (C3)	CMP END SECTION	1372863.95	689791.97
C3-B	17.65	16.00 (C3)		CMP END SECTION	1372924.77	689720.92

POND OUTLETS						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
ES-P1	14.37	13.23 (PO-1)		CMP END SECTION	1373786.41	689308.09
ES-P2	14.93	13.77 (PO-2)		CMP END SECTION	1373135.01	689618.12
PO-1	16.00		13.50 (PO-1)	NYSDOT STRUCTURE	1373801.49	689349.54
PO-2	16.50		14.00 (PO-2)	NYSDOT STRUCTURE	1373158.88	689657.65

NETWORK 1						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS1-1	16.08	9.04 (DP1-2)	9.04 (DP1-1)	NYSDOT TYPE G	1372950.69	690392.76
DS1-2	20.33	9.82 (DP1-3)	9.82 (DP1-2)	NYSDOT TYPE G	1372881.05	690254.10
DS1-3	20.40	10.48 (DP1-4)	10.48 (DP1-3)	NYSDOT TYPE G	1372828.17	690132.28
DS1-4	20.04	11.22 (DP1-5)	11.22 (DP1-4)	NYSDOT TYPE G	1372773.75	689995.36
DS1-5	20.25	11.55 (DP1-6)	11.55 (DP1-5)	NYSDOT TYPE G	1372834.87	689969.04
DS1-6	20.52	12.31 (DP1-7)	12.31 (DP1-6)	NYSDOT TYPE G	1372977.60	689922.02
DS1-7	20.75	13.07 (DP1-8)	13.07 (DP1-7)	NYSDOT TYPE F	1373118.16	689863.29
DS1-8	20.97	13.82 (DP1-9)	13.82 (DP1-8)	NYSDOT TYPE F	1373257.96	689804.87
DS1-9	20.88	14.09 (DP1-10)	14.09 (DP1-9)	NYSDOT TYPE F	1373238.60	689754.47
DS1-10	20.81	14.48 (DP1-11)	14.48 (DP1-10)	NYSDOT TYPE F	1373308.58	689723.33
DS1-11	20.55	14.94 (DP1-12)	14.94 (DP1-11)	NYSDOT TYPE F	1373392.73	689683.93
DS1-12	20.52	15.69 (DP1-13)	15.69 (DP1-12)	NYSDOT TYPE A	1373527.70	689621.87
DS1-13	20.65	16.31 (DP1-14)	16.31 (DP1-13)	NYSDOT TYPE A	1373642.73	689574.50
DS1-14	20.96		16.62 (DP1-14)	NYSDOT TYPE A	1373668.96	689631.51
DV-1	13.96	7.89 (JP-1A)	10.00 (DP1) 7.76 (JP-1B)	NYSDOT 72" ROUND	1372998.68	690496.63
ES1	10.76	7.59 (DP1)		CMP END SECTION	1373017.76	690549.19
J-1	13.24	8.53 (DP1-1)	7.95 (JP-1A)	STRM FILTER TYPE 2	1372993.63	690485.39

STRUCTURE TABLE (CONT.)						
NETWORK 2						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS2	14.01	8.68 (DP2-3) 8.50 (DP2-1)	8.50 (JP-2)	NYSDOT TYPE F	1373593.64	690392.84
DS2-1	13.80	9.23 (DP2-2)	9.23 (DP2-1)	NYSDOT TYPE A	1373449.84	690416.79
DS2-2	13.53		10.03 (DP2-2)	NYSDOT TYPE A	1373291.69	690442.31
DS2-3	13.73	9.15 (DP2-4)	9.15 (DP2-3)	NYSDOT TYPE A	1373681.77	690361.00
DS2-4	13.53		9.73 (DP2-4)	NYSDOT TYPE A	1373793.63	690331.42
ES2	10.44	7.78 (DP2)		CMP END SECTION	1373608.15	690430.67
J-2	15.00	8.43 (JP-2)	7.93 (DP2)	STRM FILTER TYPE 1	1373597.10	690402.15
NETWORK 3						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS3	15.01	9.57 (DP3-15) 10.43 (DP3-19) 10.09 (DP3-1)	9.57 (JP-3E)	NYSDOT TYPE K	1374140.34	690313.95
DS3-1	16.54	12.54 (DP3-2)	12.04 (DP3-1)	NYSDOT TYPE F	1374146.75	690136.09
DS3-2	19.21	14.00 (DP3-3)	14.00 (DP3-2)	NYSDOT 48" ROUND	1374114.60	689928.57
DS3-3	19.96	15.59 (DP3-13) 14.55 (DP3-4)	14.55 (DP3-3)	NYSDOT TYPE K	1374047.44	689841.46
DS3-4	20.50	14.97 (DP3-5)	14.97 (DP3-4)	NYSDOT TYPE A	1374015.32	689764.21
DS3-5	20.50	15.38 (DP3-6)	15.38 (DP3-5)	NYSDOT TYPE A	1373982.78	689687.04
DS3-6	20.50	15.81 (DP3-7)	15.81 (DP3-6)	NYSDOT TYPE A	1373950.23	689608.94
DS3-7	20.50	16.02 (DP3-8)	16.02 (DP3-7)	NYSDOT TYPE A	1373933.50	689568.85
DS3-8	20.50	16.24 (DP3-9)	16.24 (DP3-8)	NYSDOT TYPE A	1373916.96	689529.88
DS3-9	20.50	16.46 (DP3-10)	16.46 (DP3-9)	NYSDOT TYPE A	1373900.43	689489.27
DS3-10	20.40	16.90 (DP3-12) 16.58 (DP3-11)	16.58 (DP3-10)	NYSDOT TYPE A	1373890.52	689466.77
DS3-11	20.34		17.38 (DP3-11)	NYSDOT TYPE A	1373744.03	689531.77
DS3-12	20.72		17.50 (DP3-12)	NYSDOT TYPE A	1374000.31	689420.68
DS3-13	20.58	16.44 (DP3-14)	16.44 (DP3-13)	NYSDOT TYPE A	1374215.20	689812.83
DS3-14	20.55		17.26 (DP3-14)	NYSDOT TYPE A	1374366.78	689752.27
DS3-15	15.02	10.06 (DP3-16)	10.06 (DP3-15)	NYSDOT TYPE A	1374042.18	690306.87
DS3-16	14.67	11.17 (DP3-17)	10.67 (DP3-16)	NYSDOT TYPE A	1373919.51	690300.58
DS3-17	16.50	13.00 (DP3-18)	13.00 (DP3-17)	NYSDOT TYPE A	1373881.39	690168.12
DS3-18	18.14		13.69 (DP3-18)	NYSDOT TYPE A	1373843.35	690035.92
DS3-19	14.57	11.02 (DP3-20)	11.02 (DP3-19)	NYSDOT TYPE A	1374257.92	690317.71
DS3-20	15.07		11.57 (DP3-20)	NYSDOT TYPE A	1374367.98	690323.93
ES3	11.84	8.66 (DS3)		CMP END SECTION	1374139.84	690346.83
J-3	15.49	9.41 (JP-3B)	8.90 (JP-3A)	STRM FILTER TYPE 1	1374121.92	690322.40
J-3 ES	10.36	8.71 (JP-3A)		CMP END SECTION	1374133.41	690357.79
J-4	15.31	9.41 (JP-3D)	8.91 (JP-3C)	STRM FILTER TYPE 1	1374158.17	690323.43
J-4 ES	10.37	8.73 (JP-3C)		CMP END SECTION	1374145.54	690357.87
JM-3A	15.40	9.53 (JP-3E)	10.50 (DS3) 9.50 (JP-3B) 9.50 (JP-3D)	NYSDOT 72" ROUND	1374140.00	690321.41

STRUCTURE TABLE (CONT.)						
NETWORK 4						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS4	15.47	11.22 (DP4-3) 9.66 (DP4-7) 10.50 (DP4-1)	9.66 (JP-4B)	NYSDOT TYPE K	1374697.14	690309.15
DS4-1	16.50	11.38 (DP4-2)	11.38 (DP4-1)	NYSDOT TYPE A	1374749.79	690164.22
DS4-2	18.66		13.35 (DP4-2)	NYSDOT TYPE A	1374784.09	689963.21
DS4-3	15.57	11.87 (DP4-4)	11.87 (DP4-3)	NYSDOT TYPE A	1374567.27	690310.51
DS4-4	15.61	12.41 (DP4-5) 12.42 (DP4-9)	12.41 (DP4-4)	NYSDOT TYPE A	1374459.94	690311.57
DS4-5	16.58	13.08 (DP4-6)	13.08 (DP4-5)	NYSDOT TYPE A	1374481.61	690177.53
DS4-6	18.06		14.56 (DP4-6)	NYSDOT TYPE A	1374482.36	690023.98
DS4-7	14.10	10.11 (DP4-8)	10.11 (DP4-7)	NYSDOT TYPE A	1374775.70	690354.33
DS4-8	14.64		10.64 (DP4-8)	NYSDOT TYPE A	1374879.33	690375.41
DS4-9	15.52		12.52 (DP4-9)	NYSDOT TYPE A	1374460.58	690331.22
DV-4	15.37	8.50 (JP-4A) 7.50 (DVP4)	11.00 (DP4) 7.50 (DVP4)	NYSDOT 72" ROUND	1374689.00	690340.73
ES4	12.60	9.42 (DP4)		CMP END SECTION	1374686.71	690364.94
J-5	14.62	9.56 (JP-4B)	9.00 (JP-4A)	STRM FILTER TYPE 3	1374691.92	690328.39
NETWORK 5						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS5	17.71	8.74 (DP5-1)	8.74 (IS 5-2)	NYSDOT TYPE F	1375526.96	690208.24
DS5-1	14.90	9.64 (DP5-2)	9.64 (DP5-1)	NYSDOT TYPE F	1375513.69	690388.25
DS5-2	14.69	10.00 (DP5-3)	10.00 (DP5-2)	NYSDOT TYPE A	1375441.96	690388.31
DS5-3	14.62		10.62 (DP5-3)	NYSDOT TYPE A	1375316.98	690393.68
DS5-4	19.19	11.81 (DP5-5)	11.71 (DP5-4)	NYSDOT TYPE A	1375567.28	690092.37
DS5-5	19.80	12.85 (DP5-6)	12.75 (DP5-5)	NYSDOT TYPE A	1375378.09	690080.72
DS5-6	19.52	13.63 (DP5-7)	13.63 (DP5-6)	NYSDOT TYPE A	1375222.43	690072.18
DS5-7	18.87		14.31 (DP5-7)	NYSDOT TYPE A	1375098.98	690016.64
DV-5	17.73	8.68 (DP5-4) 8.68 (IS 5-2)	12.60 (DP5) 6.79 (IS 5-1)	NYSDOT TYPE F	1375538.44	690209.21
ES5	14.95	12.29 (DP5)		CMP END SECTION	1375601.03	690214.59

PLANNING BOARD HTE# 21-00100006

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
2	06/06/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05/10/2022
PROJECT	18641.00



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE

**DRAINAGE PROFILES
& TABLES**

DRAWING NUMBER

GR-12

N:\BIRMINGHAM\ALBANY PORT EXPANSION\DRAWINGS\DRG\ALBANY PORT EXPANSION.DWG

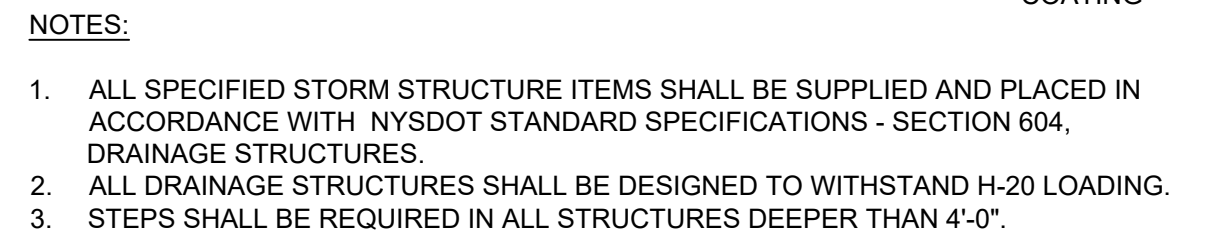
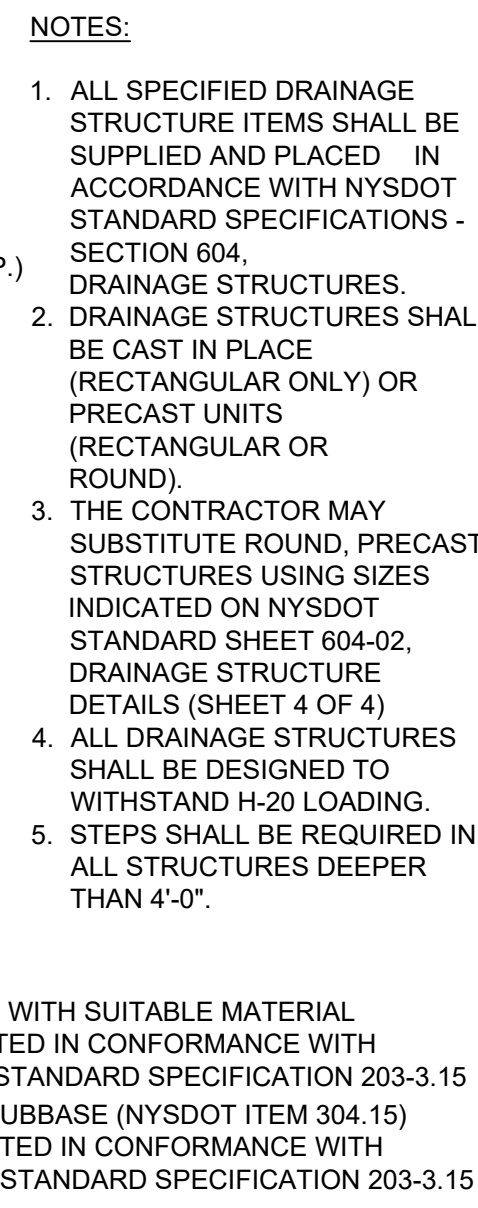
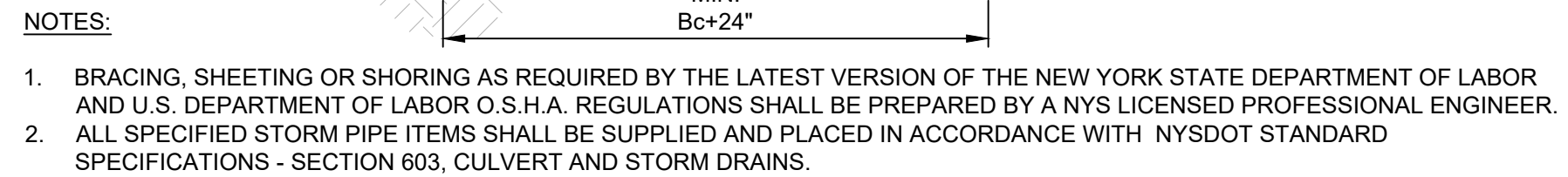
STRUCTURE TABLE (CONT.)						
NETWORK 6						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS6	19.82	8.52 (DP6-1) 8.73 (DP6-14)	8.52 (JP-6E)	NYSDOT 72" ROUND	1375580.78	689740.56
DS6-1	20.58	9.05 (DP6-2)	9.05 (DP6-1)	NYSDOT TYPE K	1375487.52	689690.63
DS6-2	20.50	9.54 (DP6-3)	9.54 (DP6-2)	NYSDOT TYPE G	1375389.41	689679.32
DS6-3	20.50	10.14 (DP6-4)	10.14 (DP6-3)	NYSDOT TYPE G	1375268.69	689673.63
DS6-4	20.50	10.67 (DP6-13) 10.57 (DP6-5)	10.57 (DP6-4)	NYSDOT TYPE G	1375185.29	689691.50
DS6-5	18.90	11.79 (DP6-6)	11.79 (DP6-5)	NYSDOT TYPE G	1374941.78	689684.09
DS6-6	18.50	12.80 (DP6-7)	12.80 (DP6-6)	NYSDOT TYPE G	1374740.25	689673.81
DS6-7	18.90	13.64 (DP6-8)	13.64 (DP6-7)	NYSDOT 60" ROUND	1374572.38	689665.83
DS6-8	20.50	14.42 (DP6-9)	14.42 (DP6-8)	NYSDOT 60" ROUND	1374435.02	689592.48
DS6-9	20.94	15.04 (DP6-10)	15.04 (DP6-9)	NYSDOT TYPE F	1374389.86	689478.22
DS6-10	20.50	15.95 (DP6-11)	15.95 (DP6-10)	NYSDOT TYPE K	1374311.52	689313.86
DS6-11	20.43	16.50 (DP6-12)	16.50 (DP6-11)	NYSDOT TYPE A	1374200.61	689325.51
DS6-12	20.67		17.00 (DP6-12)	NYSDOT TYPE A	1374112.51	689342.06
DS6-13	20.10		15.10 (DP6-13)	NYSDOT TYPE A	1375180.02	689798.34
DS6-14	19.80		15.30 (DP6-14)	NYSDOT TYPE A	1375576.32	689876.35
ES6	11.97	8.79 (DP6)		CMP END SECTION	1375636.86	689736.21
J-6	20.66	8.39 (JP-6B)	7.89 (JP-6A)	STRM FILTER TYPE 1	1375589.41	689759.02
J-6 ES	9.30	7.65 (JP-6A)		CMP END SECTION	1375640.05	689743.85
J-7	20.64	8.40 (JP-6D)	7.90 (JP-6C)	STRM FILTER TYPE 1	1375590.45	689725.15
J-7 ES	9.30	7.65 (JP-6C)		CMP END SECTION	1375642.36	689726.45
JM-6A	20.70	8.48 (JP-6E) 11.50 (DP6) 8.48 (JP-6B)		NYSDOT 72" ROUND	1375588.17	689741.27
NETWORK 7						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS7	19.15	11.94 (DP7-1) 11.52 (DP7-11)	11.52 (JP-7E)	NYSDOT 72" ROUND	1375606.68	689552.87
DS7-1	20.47	12.34 (DP7-2)	12.34 (DP7-1)	NYSDOT 48" ROUND	1375529.41	689570.08
DS7-2	20.55	12.74 (DP7-3)	12.74 (DP7-2)	NYSDOT TYPE F	1375449.21	689572.28
DS7-3	20.50	13.55 (DP7-4)	13.55 (DP7-3)	NYSDOT TYPE A	1375287.96	689563.66
DS7-4	20.50	14.30 (DP7-5)	14.30 (DP7-4)	NYSDOT TYPE A	1375137.47	689557.17
DS7-5	20.49	15.05 (DP7-6)	15.05 (DP7-5)	NYSDOT TYPE A	1374987.87	689549.50
DS7-6	20.87	15.61 (DP7-7)	15.61 (DP7-6)	NYSDOT TYPE A	1374875.35	689542.60
DS7-7	20.50	16.81 (DP7-8) 16.28 (DP7-9)	16.28 (DP7-7)	NYSDOT TYPE A	1374740.71	689538.37
DS7-8	20.50		17.50 (DP7-8)	NYSDOT TYPE A	1374602.76	689529.78
DS7-9	20.50	16.71 (DP7-10)	16.71 (DP7-9)	NYSDOT TYPE A	1374744.43	689452.51
DS7-10	20.62		17.00 (DP7-10)	NYSDOT TYPE A	1374746.87	689395.47
DS7-11	19.61	11.98 (DP7-12)	11.98 (DP7-11)	NYSDOT 60" ROUND	1375666.39	689483.79
DS7-12	20.00	12.43 (DP7-13)	12.43 (DP7-12)	NYSDOT 60" ROUND	1375646.72	689396.85
DS7-13	20.83	13.13 (DP7-14)	13.13 (DP7-13)	NYSDOT TYPE F	1375509.92	689366.00
DS7-14	20.89	13.96 (DP7-15)	13.96 (DP7-14)	NYSDOT TYPE F	1375347.07	689331.11
DS7-15	20.81	14.20 (DP7-16)	14.20 (DP7-15)	NYSDOT TYPE F	1375299.84	689324.34
DS7-16	20.78	14.83 (DP7-17)	14.83 (DP7-16)	NYSDOT TYPE A	1375173.23	689316.34
DS7-17	20.82	15.33 (DP7-18)	15.33 (DP7-17)	NYSDOT TYPE A	1375073.62	689309.81
DS7-18	20.83	15.83 (DP7-19)	15.83 (DP7-18)	NYSDOT TYPE A	1374974.05	689307.09
DS7-19	20.50	16.35 (DP7-20)	16.35 (DP7-19)	NYSDOT TYPE A	1374872.04	689319.75
DS7-20	20.50		17.00 (DP7-20)	NYSDOT TYPE A	1374742.73	689310.29
ES7	15.95	12.77 (DP7)		CMP END SECTION	1375644.70	689580.44
J-8	19.11	11.39 (JP-7B)	10.89 (JP-7A)	STRM FILTER TYPE 2	1375599.57	689570.28
J-8 ES	12.35	10.70 (JP-7A)		CMP END SECTION	1375640.71	689586.64
J-9	19.22	11.38 (JP-7D)	10.88 (JP-7C)	STRM FILTER TYPE 2	1375628.64	689554.69
J-9 ES	12.35	10.70 (JP-7C)		CMP END SECTION	1375654.35	689576.33
JM-7A	19.01	11.47 (JP-7E) 11.47 (JP-7D) 13.00 (DP7)		NYSDOT 72" ROUND	1375612.48	689559.96

PIPE TABLE						
NETWORK 1						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
DP1	36"	55.91'	4.32%	SICPP	DV-1	ES1
DP1-1	36"	102.10'	0.50%	SICPP	DS1-1	J-1
DP1-2	36"	155.16'	0.50%	SICPP	DS1-2	DS1-1
DP1-3	36"	132.81'	0.50%	SICPP	DS1-3	DS1-2
DP1-4	36"	147.34'	0.50%	SICPP	DS1-4	DS1-3
DP1-5	36"	66.55'	0.50%	SICPP	DS1-5	DS1-4
DP1-6	36"	150.27'	0.50%	SICPP	DS1-6	DS1-5
DP1-7	30"	152.33'	0.50%	SICPP	DS1-7	DS1-6
DP1-8	30"	151.52'	0.50%	SICPP	DS1-8	DS1-7
DP1-9	30"	53.99'	0.50%	SICPP	DS1-9	DS1-8
DP1-10	30"	76.60'	0.50%	SICPP	DS1-10	DS1-9
DP1-11	30"	92.92'	0.50%	SICPP	DS1-11	DS1-10
DP1-12	24"	148.55'	0.50%	SICPP	DS1-12	DS1-11
DP1-13	18"	124.39'	0.50%	SICPP	DS1-13	DS1-12
DP1-14	18"	62.75'	0.50%	SICPP	DS1-14	DS1-13
JP-1A	36"	12.32'	0.50%	SICPP	J-1	DV-1
JP-1B	18"	63.64'	1.59%	SICPP	DV-1	
NETWORK 2						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
DP2	30"	30.59'	0.50%	SICPP	J-2	ES2
DP2-1	24"	145.78'	0.50%	SICPP	DS2-1	DS2
DP2-2	18"	160.20'	0.50%	SICPP	DS2-2	DS2-1
DP2-3	24"	93.70'	0.50%	SICPP	DS2-3	DS2
DP2-4	18"	115.71'	0.50%	SICPP	DS2-4	DS2-3
JP-2	30"	9.93'	0.67%	SICPP	DS2	J-2
NETWORK 3						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
DP3-1	30"	177.98'	1.10%	SICPP	DS3-1	DS3
DP3-2	24"	209.99'	0.70%	SICPP	DS3-2	DS3-1
DP3-3	24"	109.99'	0.50%	SICPP	DS3-3	DS3-2
DP3-4	24"	83.67'	0.50%	SICPP	DS3-4	DS3-3
DP3-5	24"	83.75'	0.50%	SICPP	DS3-5	DS3-4
DP3-6	24"	84.60'	0.50%	SICPP	DS3-6	DS3-5
DP3-7	18"	43.45'	0.50%	SICPP	DS3-7	DS3-6
DP3-8	18"	42.33'	0.50%	SICPP	DS3-8	DS3-7
DP3-9	18"	43.84'	0.50%	SICPP	DS3-9	DS3-8
DP3-10	18"	24.59'	0.50%	SICPP	DS3-10	DS3-9
DP3-11	12"	160.26'	0.50%	SICPP	DS3-11	DS3-10
DP3-12	12"	119.07'	0.50%	SICPP	DS3-12	DS3-10
DP3-13	18"	170.19'	0.50%	SICPP	DS3-13	DS3-3
DP3-14	12"	163.23'	0.50%	SICPP	DS3-14	DS3-13
DP3-15	24"	98.41'	0.50%	SICPP	DS3-15	DS3
DP3-16	24"	122.84'	0.50%	SICPP	DS3-16	DS3-15
DP3-17	18"	137.83'	1.33%	SICPP	DS3-17	DS3-16
DP3-18	18"	137.57'	0.50%	SICPP	DS3-18	DS3-17
DP3-19	18"	117.65'	0.50%	SICPP	DS3-19	DS3
DP3-20	18"	110.23'	0.50%	SICPP	DS3-20	DS3-19
DS3	36"	25.42'	7.23%	SICPP	JM-3A	ES3
JP-3A	18"	37.21'	0.51%	SICPP	J-3	J-3 ES
JP-3B	18"	18.11'	0.50%	SICPP	JM-3A	J-3
JP-3C	18"	36.68'	0.50%	SICPP	J-4	J-4 ES
JP-3D	18"	18.28'	0.50%	SICPP	JM-3A	J-4
JP-3E	36"	7.47'	0.50%	SICPP	DS3	JM-3A

PIPE TABLE (CONT.)						
NETWORK 4						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
DP4	36"	24.32'	6.49%	SICPP	DV-4	ES4
DP4-1	18"	154.20'	0.57%	SICPP	DS4-1	DS4
DP4-2	12"	203.91'	0.97%	SICPP	DS4-2	DS4-1
DP4-3	24"	129.88'	0.50%	SICPP	DS4-3	DS4
DP4-4	24"	107.34'	0.50%	SICPP	DS4-4	DS4-3
DP4-5	18"	135.78'	0.50%	SICPP	DS4-5	DS4-4
DP4-6	18"	153.55'	0.96%	SICPP	DS4-6	DS4-5
DP4-7	24"	90.62'	0.50%	SICPP	DS4-7	DS4
DP4-8	24"	105.76'	0.50%	SICPP	DS4-8	DS4-7
DP4-9	12"	19.66'	0.50%	SICPP	DS4-9	DS4-4
DVP4	18"	9.44'	7.94%	SICPP	DV-4	
JP-4A	36"	12.68'	3.94%	SICPP	J-5	DV-4
JP-4B	36"	19.93'	0.50%	SICPP	DS4	J-5
NETWORK 5						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
DP5	36"	62.82'	0.50%	SICPP	DV-5	ES5
DP5-1	24"	180.50'	0.50%	SICPP	DS5-1	DS5
DP5-2	24"	71.73'	0.50%	SICPP	DS5-2	DS5-1
DP5-3	24"	125.09'	0.50%	SICPP	DS5-3	DS5-2
DP5-4	18"	120.34'	2.51%	SICPP	DS5-4	DV-5
DP5-5	18"	189.54'	0.50%	SICPP	DS5-5	DS5-4
DP5-6	18"	155.90'	0.50%	SICPP	DS5-6	DS5-5
DP5-7	12"	135.37'	0.50%	SICPP	DS5-7	DS5-6
IS 5-1	24"	7.25'	0.50%	SICPP	DV-5	
IS 5-2	24"	11.52'	0.50%	SICPP	DS5	DV-5
NETWORK 6						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
DP6	36"	48.95'	5.54%	SICPP	JM-6A	ES6
DP6-1	36"	105.79'	0.50%	SICPP	DS6-1	DS6
DP6-2	36"	98.75'	0.50%	SICPP	DS6-2	DS6-1
DP6-3	36"	120.86'	0.50%	SICPP	DS6-3	DS6-2
DP6-4	36"	85.30'	0.50%	SICPP	DS6-4	DS6-3
DP6-5	36"	243.62'	0.50%	SICPP	DS6-5	DS6-4
DP6-6	36"	201.79'	0.50%	SICPP	DS6-6	DS6-5
DP6-7	30"	168.06'	0.50%	SICPP	DS6-7	DS6-6
DP6-8	30"	155.71'	0.50%	SICPP	DS6-8	DS6-7
DP6-9	30"	122.86'	0.50%	SICPP	DS6-9	DS6-8
DP6-10	30"	182.07'	0.50%	SICPP	DS6-10	DS6-9
DP6-11	24"	111.52'	0.50%	SICPP	DS6-11	DS6-10
DP6-12	18"	89.64'	0.55%	SICPP	DS6-12	DS6-11
DP6-13	18"	106.97'	4.14%	SICPP	DS6-13	DS6-4
DP6-14	18"	135.86'	4.84%	SICPP	DS6-14	DS6
JP-6A	18"	52.87'	0.45%	SICPP	J-6	J-6 ES
JP-6B	18"	17.79'	0.50%	SICPP	JM-6A	J-6
JP-6C	18"	51.92'	0.48%	SICPP	J-7	J-7 ES
JP-6D	18"	16.28'	0.50%	SICPP	JM-6A	J-7
JP-6E	36"	7.43'	0.50%	SICPP	DS6	JM-6A

PLANNING BOARD HTE# 21-00100006

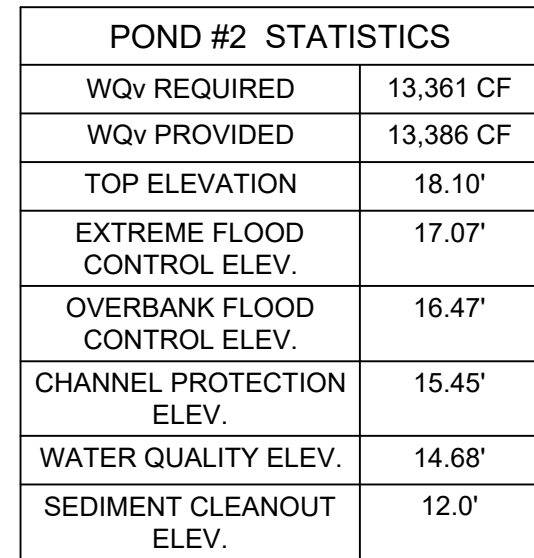
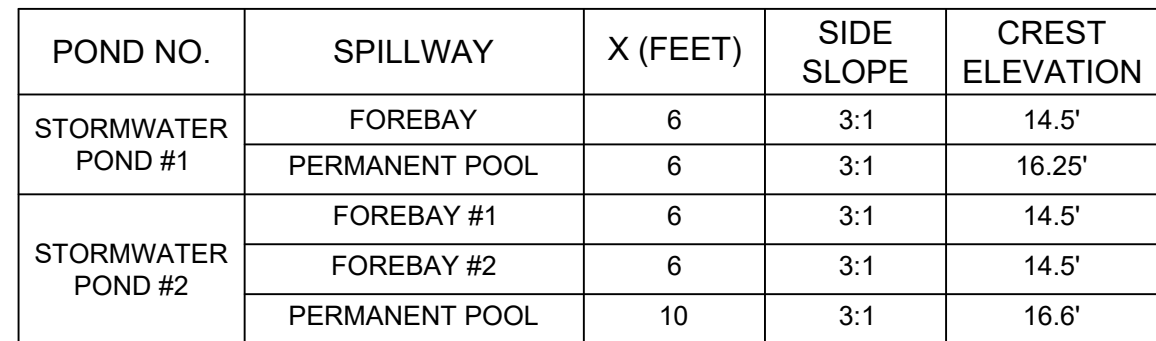
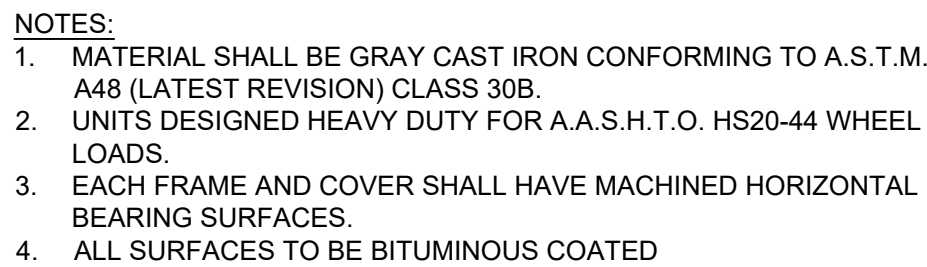
PIPE TABLE (CONT.)						
NETWORK 7						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
DP7	36"	38.18'	0.59%	SICPP	JM-7A	ES7
DP7-1	24"	79.16'	0.50%	SICPP	DS7-1	DS7
DP7-2	24"	80.23'	0.50%	SICPP	DS7-2	DS7
DP7-3	24"	161.48'	0.50%	SICPP	DS7-3	DS7-2
DP7-4	24"	150.63'	0.50%	SICPP	DS7-4	DS7-3
DP7-5	24"	149.80'	0.50%	SICPP	DS7-5	DS7-4
DP7-6	24"	112.73'	0.50%	SICPP	DS7-6	DS7-5
DP7-7	24"	134.71'	0.50%	SICPP	DS7-7	DS7-6
DP7-8	12"	138.21'	0.50%	SICPP	DS7-8	DS7-7
DP7-9	18"	85.94'	0.50%	SICPP	DS7-9	DS7-7
DP7-10	18"	57.09'	0.50%	SICPP	DS7-10	DS7-9
DP7-11	30"	91.31'	0.50%	SICPP	DS7-11	DS7-9
DP7-12	30"	89.14'	0.50%	SICPP	DS7-12	DS7-11
DP7-13	30"	140.23'	0.50%	SICPP	DS7-13	DS7-12
DP7-14	30"	166.54'	0.50%	SICPP	DS7-14	DS7-13
DP7-15	24"	47.72'	0.50%	SICPP	DS7-15	DS7-14
DP7-16	24"	126.86'	0.50%	SICPP	DS7-16	DS7-15
DP7-17	24"	99.82'	0.50%	SICPP	DS7-17	DS7-16
DP7-18	18"	99.61'	0.50%	SICPP	DS7-18	DS7-17
DP7-19	18"	102.80'	0.50%	SICPP	DS7-19	DS7-18
DP7-20	18"	129.65'	0.50%	SICPP	DS7-20	DS7-19
JP-7A	18"	44.27'	0.43%	SICPP	J-8	J-8 ES
JP-7B	18"	16.53'	0.50%	SICPP	JM-7A	J-8
JP-7C	18"	33.61'	0.54%	SICPP	J-9	J-9 ES
JP-7D	18"	17.00'	0.50%	SICPP	JM-7A	J-9
JP-7E	36"	9.15'	0.50%	SICPP	DS7	JM-7A
CULVERTS						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
C1	8"	26.96'	3.71%	SICPP	C1-A	C1-B
C2	12"	30.65'	0.68%	SICPP	C2-A	C2-B
C3	18"	93.53'	0.53%	SICPP	C3-A	C3-B
POND OUTLETS						
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC
PO-1	12"	44.11'	0.60%	SICPP	PO-1	ES-P1
PO-2	12"	46.19'	0.50%	SICPP	PO-2	ES-P2



N.T.S

N.T.S.

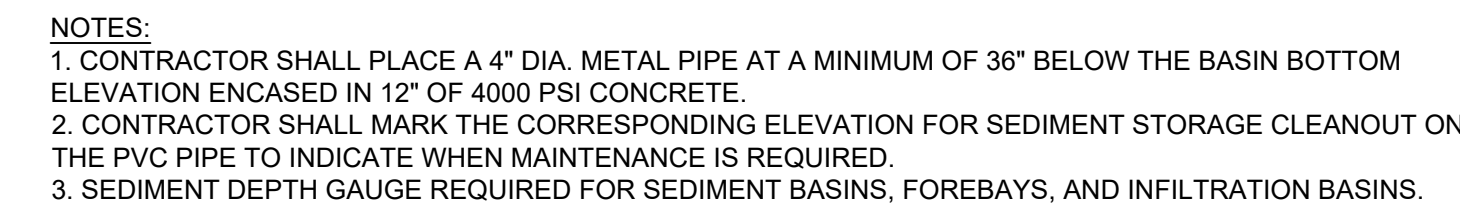
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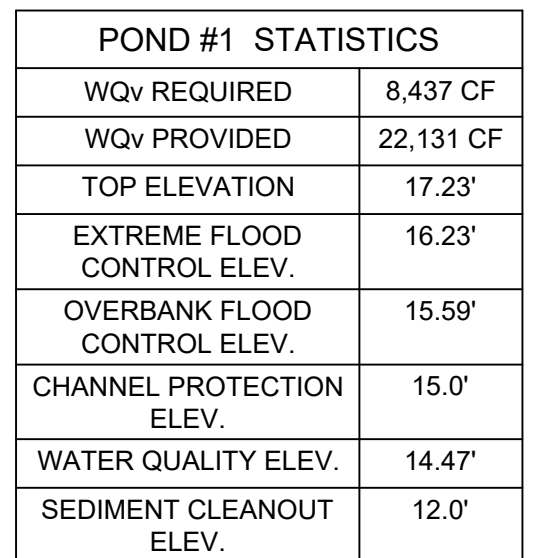
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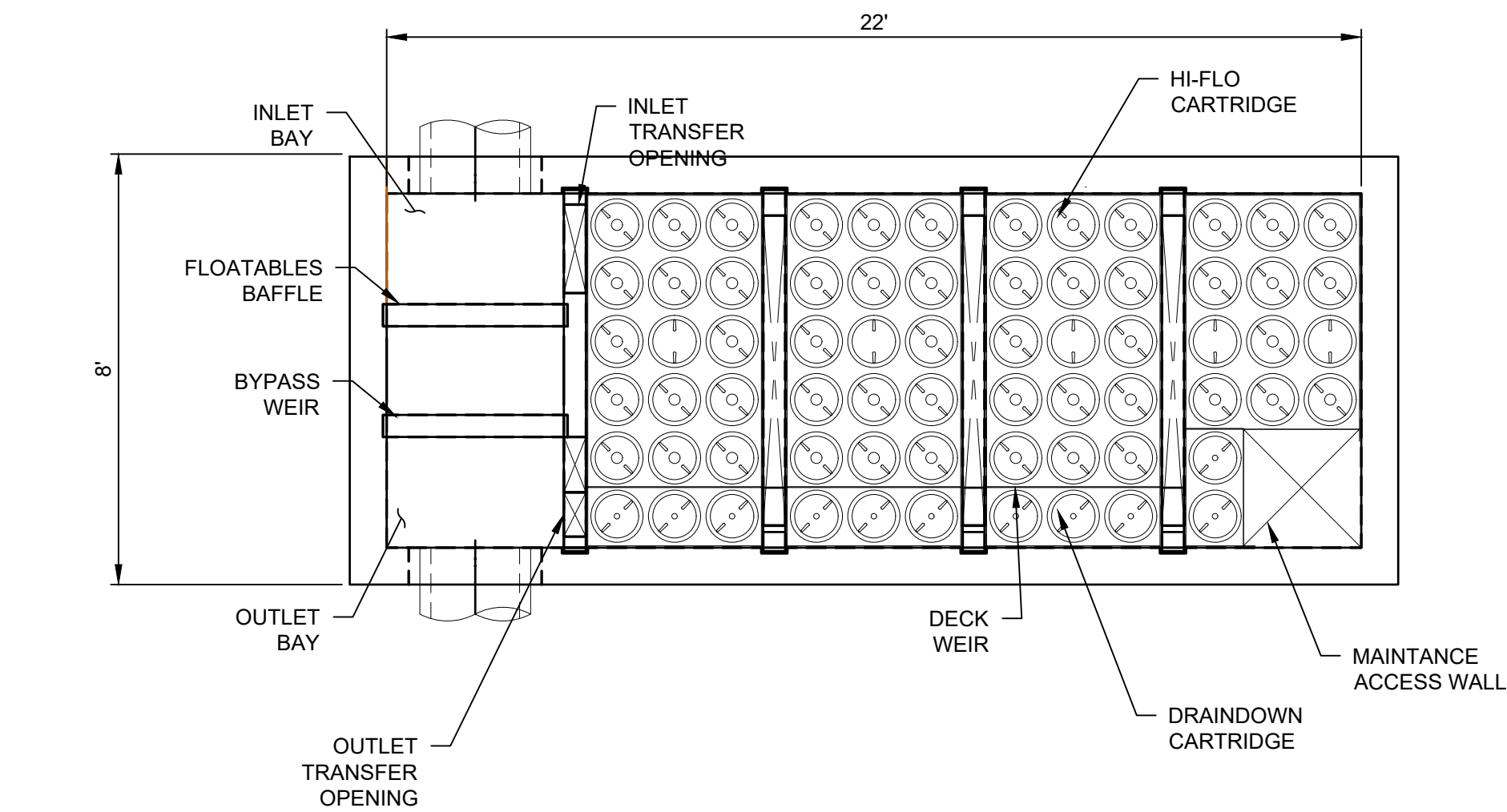
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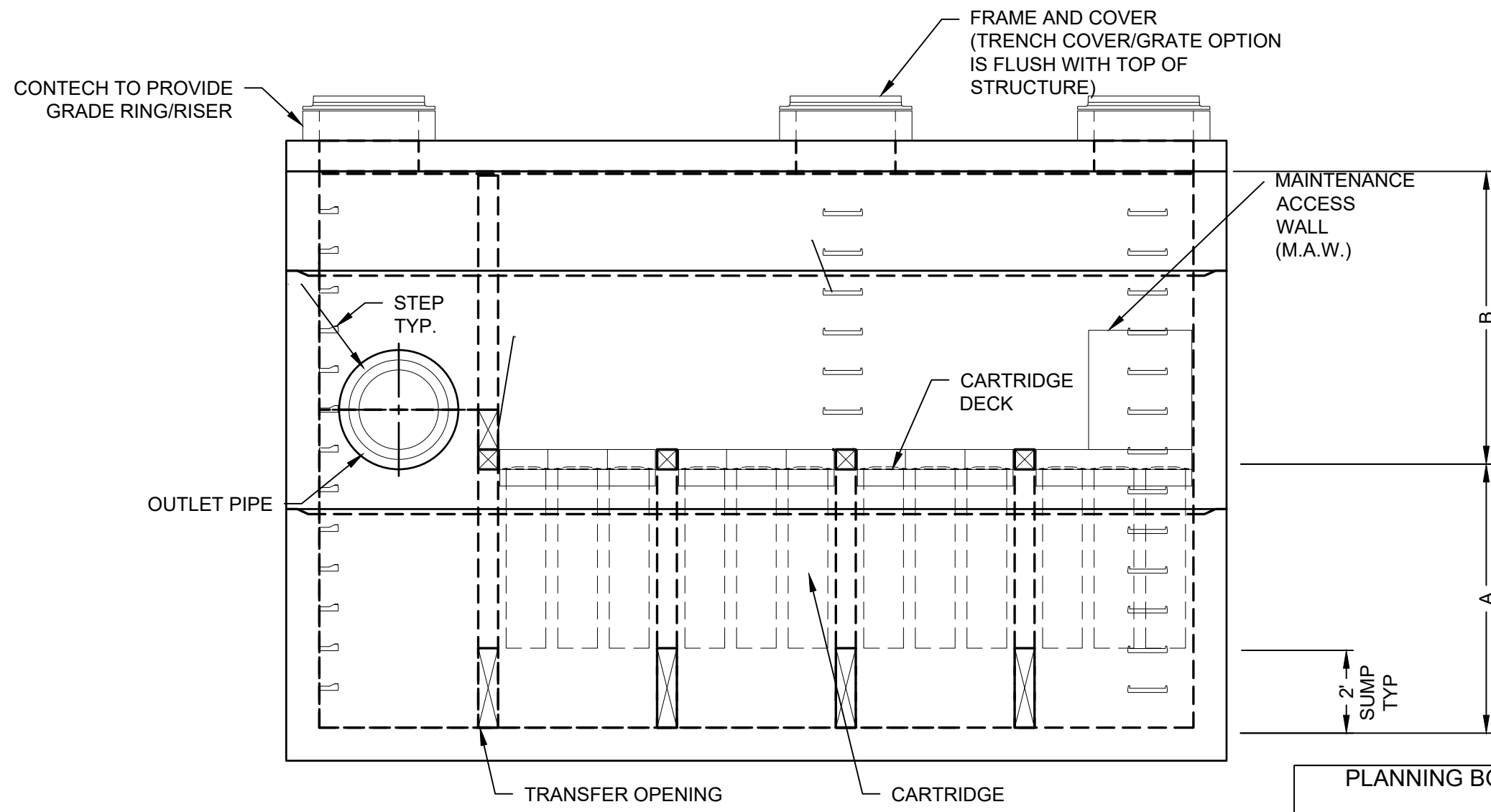
PLANNING BOARD HTE# 21-00100006



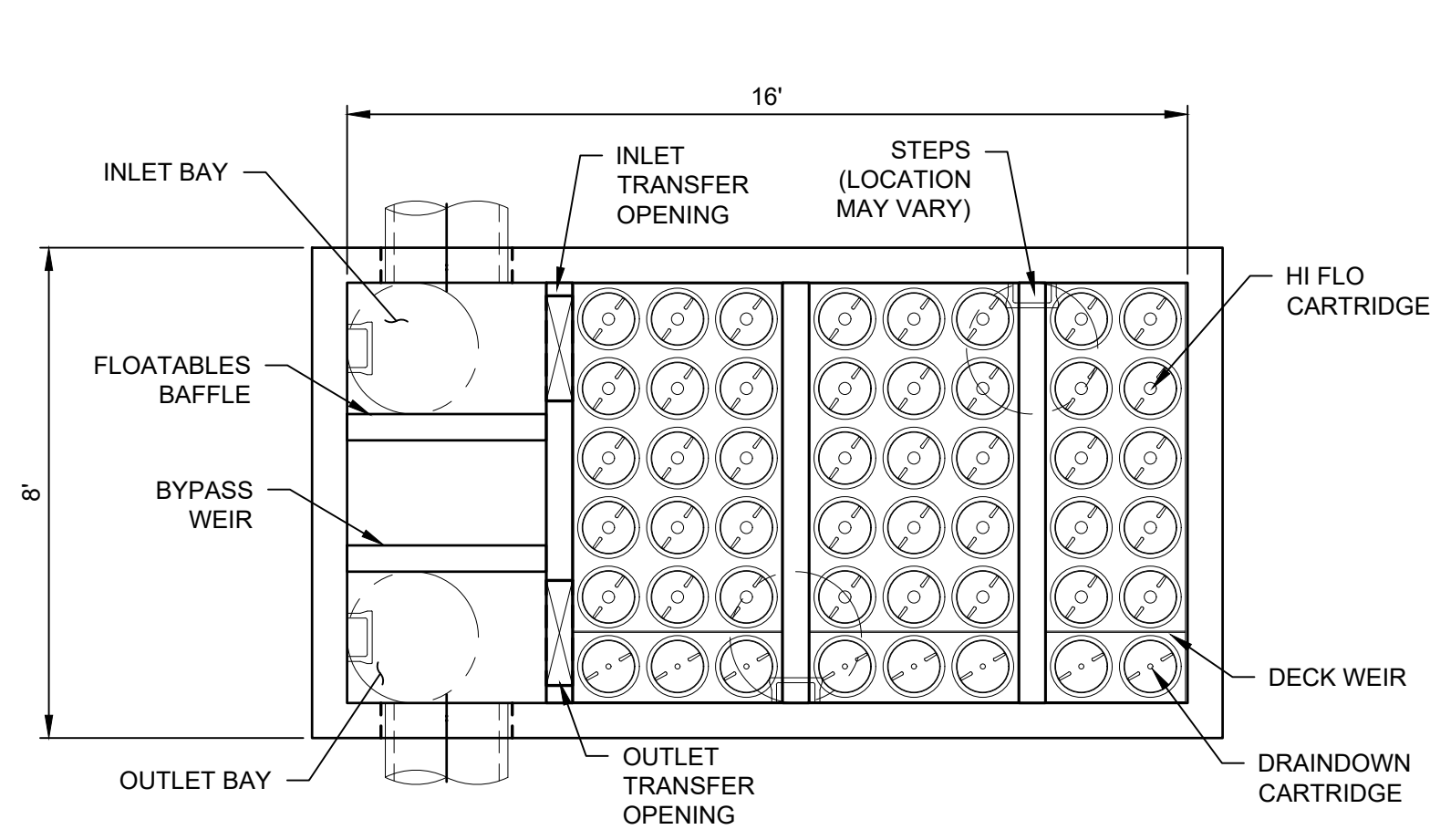
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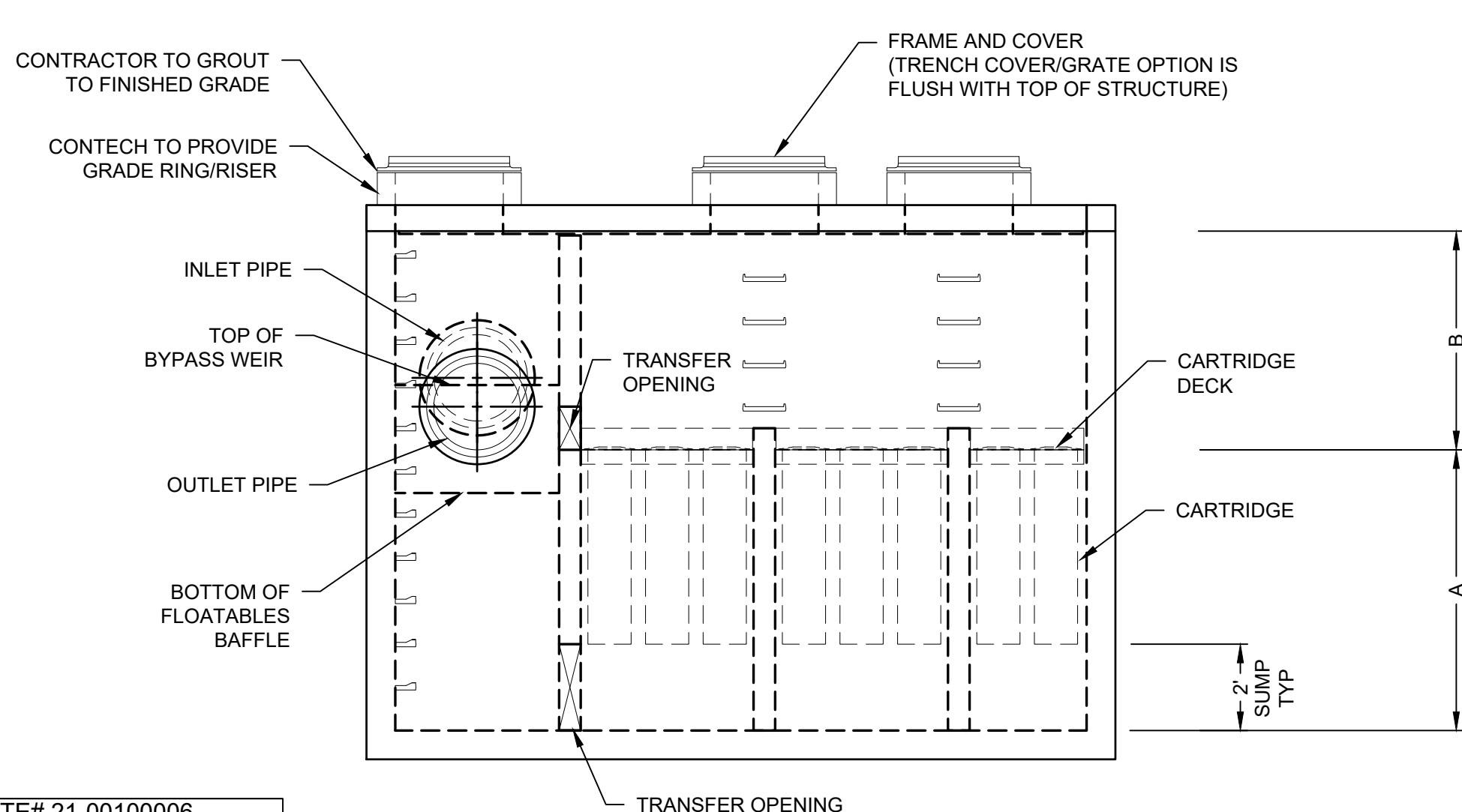
PLAN VIEW
(TOP SLAB NOT SHOWN FOR CLARITY)



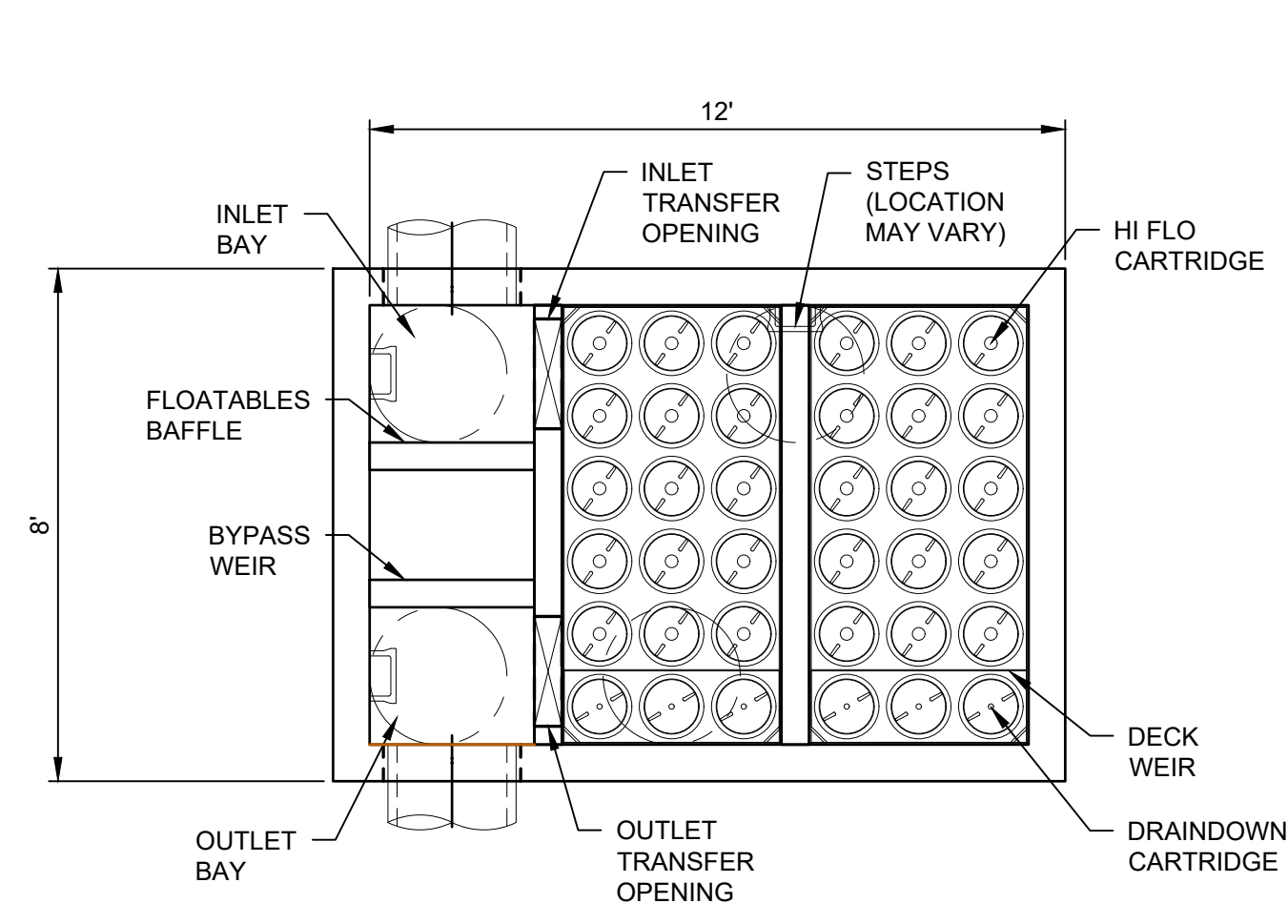
ELEVATION VIEW
STORMWATER FILTER STRUCTURE TYPE 1
(JFPD0822)



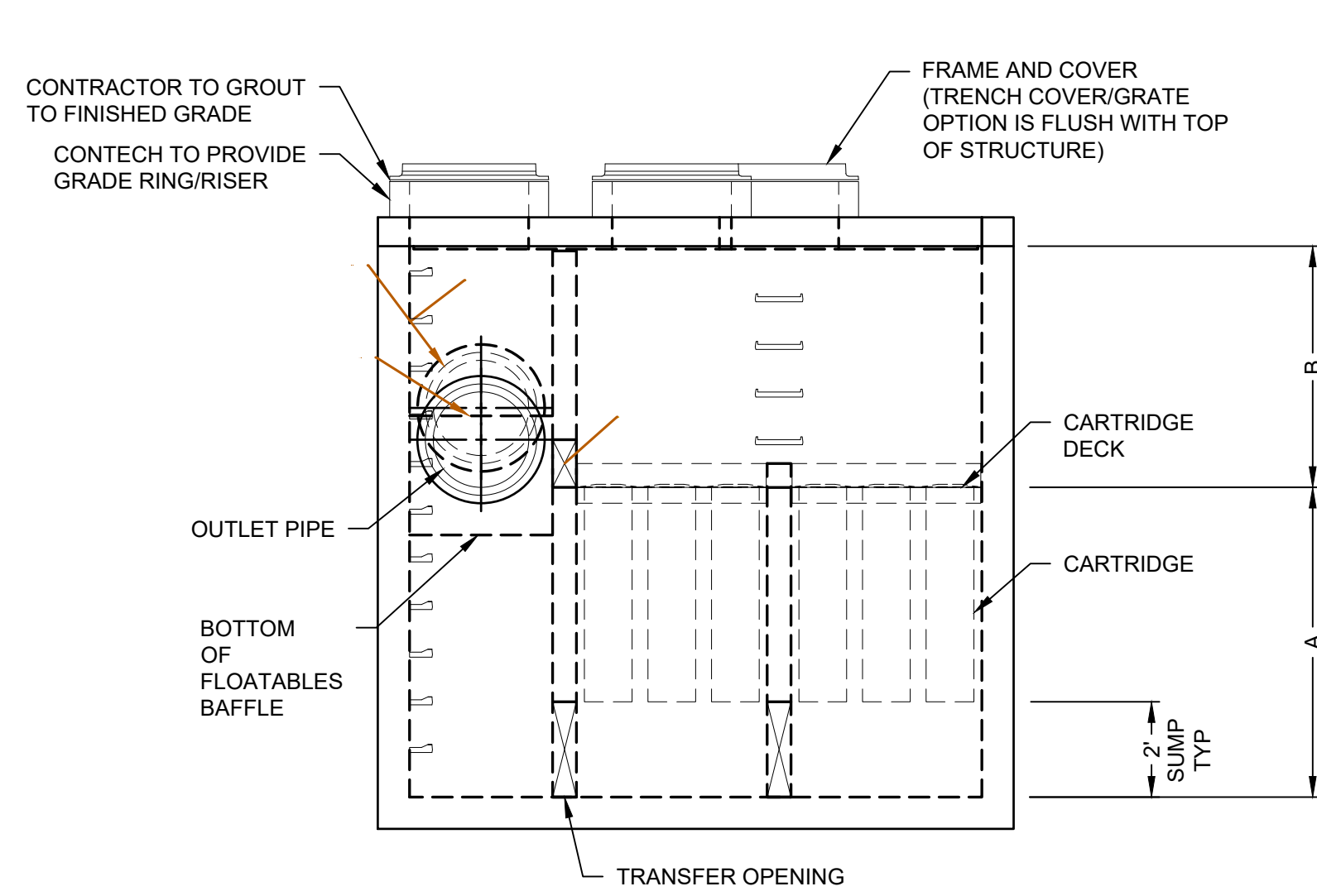
PLAN VIEW
(TOP SLAB NOT SHOWN FOR CLARITY)



ELEVATION VIEW
STORMWATER FILTER STRUCTURE TYPE 2
(JFPD0816)



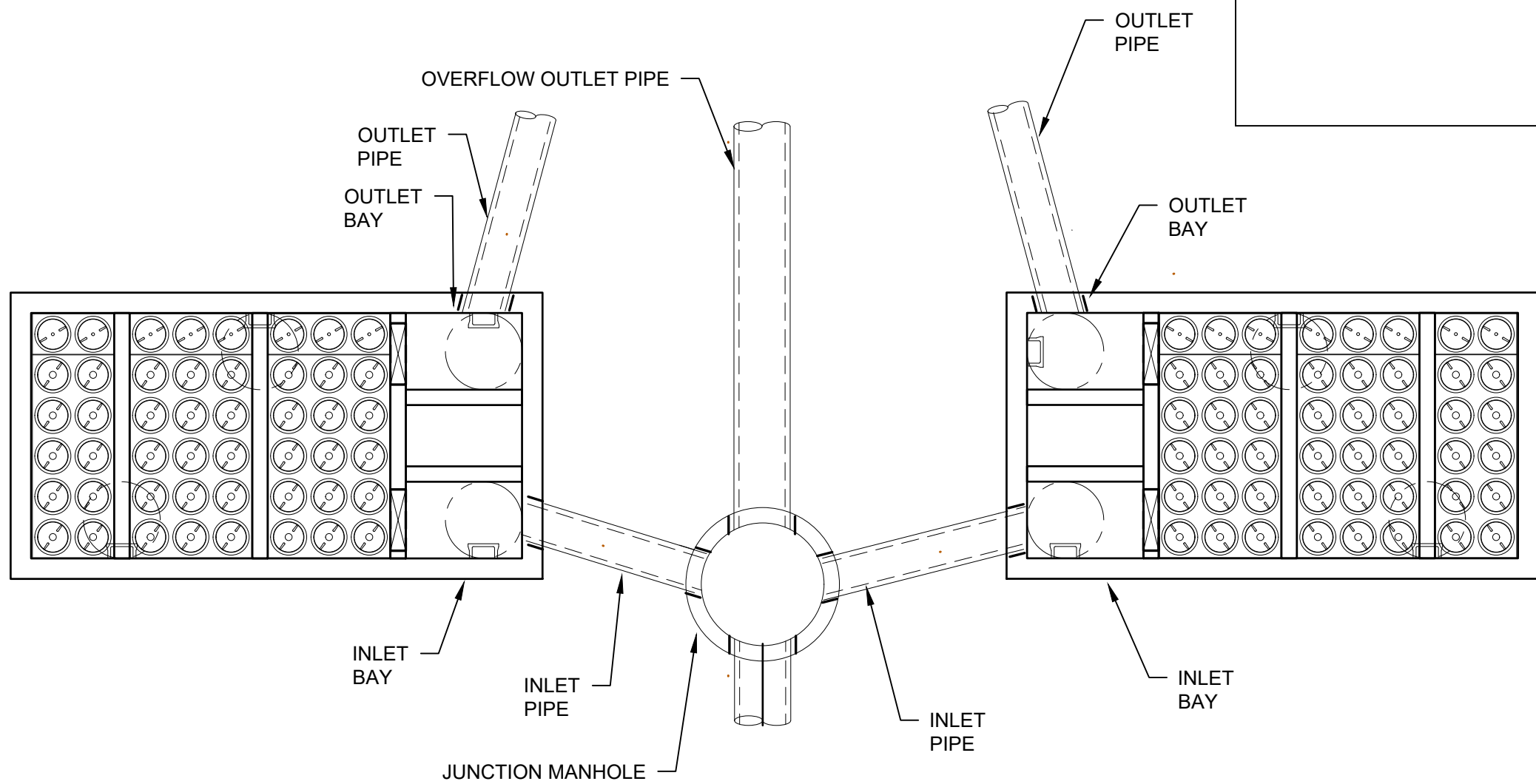
PLAN VIEW
(TOP SLAB NOT SHOWN FOR CLARITY)



ELEVATION VIEW
STORMWATER FILTER STRUCTURE TYPE 3
(JFPD0812)

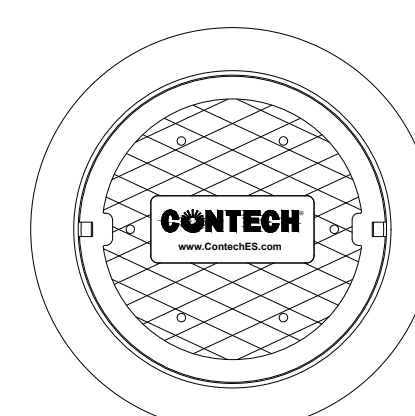
- GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. FOR SITE SPECIFIC STRUCTURE DESIGN ELEVATIONS SEE THE TABLE ON THIS SHEET.
 3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 4. STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0' - 10'. AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
 5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857, ASTM C-918, AND AASHTO LOAD FACTOR DESIGN METHOD.
 6. OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
 7. THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
 8. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

- INSTALLATION NOTES
- A. SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS SHALL CONFORM TO THE DRAINAGE STRUCTURE DETAILS ON DRAWING GR-14.
 - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
 - C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
 - D. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

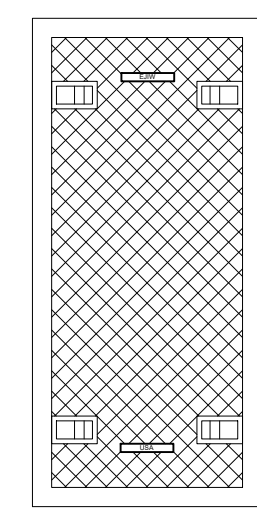


PARALLEL CONFIGURATION

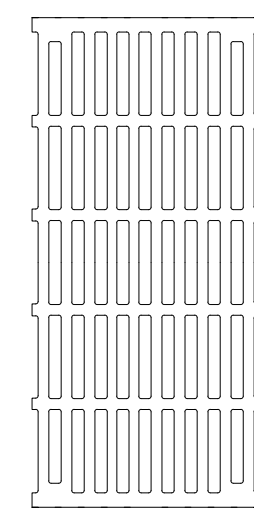
JELLYFISH DESIGN NOTES	
JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK OVERFLOW STYLE WITH PRECAST TOP SLAB IS SHOWN. ALTERNATE OFFLINE VALVE AND/OR SHALLOW ORIENTATIONS ARE AVAILABLE. PEAK CONVEYANCE PROVIDED IN THE PROJECT'S DRAINAGE DESIGN REPORT FOR EACH STRUCTURE.	
CARTRIDGE SELECTION	
CARTRIDGE LENGTH	54"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"
FLOW RATE HI-FLO / DRAINDOWN (CFS) (PER CART)	0.178 / 0.089
DECK TO INSIDE TOP (MIN) (B)	5.00



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



24"
TRENCH COVER
(LENGTH VARIES)
N.T.S.



24"
TRENCH GRATE
(LENGTH VARIES)
N.T.S.

JELLYFISH STRUCTURE INFORMATION											
NO.	STRUCTURE TYPE	DRAINAGE NETWORK	CONFIG.	RIM ELEV.	INV.(S) IN	INV. OUT	WQ FLOW RATE (cfs)	PEAK FLOW RATE (cfs)	RETURN PERIOD OF PEAK FLOW (yrs)	# OF CARTRIDGES REQUIRED (HF/DD)	CARTRIDGE LENGTH
J-1	2	1	SINGLE	13.24	8.53	7.95	7.78	44.3	10	40 / 8	54
J-2	1	2	SINGLE	15.00	8.43	7.93	9.46	25.70	10	49 / 10	54
J-3	1	3	PARALLEL	15.49	9.41	8.90	9.46	24.30	10	49 / 10	54
J-4	1	3	PARALLEL	15.31	9.41	8.91	9.46	24.30	10	49 / 10	54
J-5	3	4	SINGLE	14.62	9.56	9.00	6.48	39.7	10	33 / 7	54
J-6	1	6	PARALLEL	20.66	8.39	7.89	10.35	24.65	10	53 / 11	54
J-7	1	6	PARALLEL	20.64	8.40	7.90	10.35	24.65	10	53 / 11	54
J-8	2	7	PARALLEL	19.10	11.39	10.89	7.50	18.25	10	39 / 8	54
J-9	2	7	PARALLEL	19.22	11.38	10.88	7.50	18.25	10	39 / 8	54

STORMWATER FILTER STRUCTURES

N.T.S.



McFarland Johnson

60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE

FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE

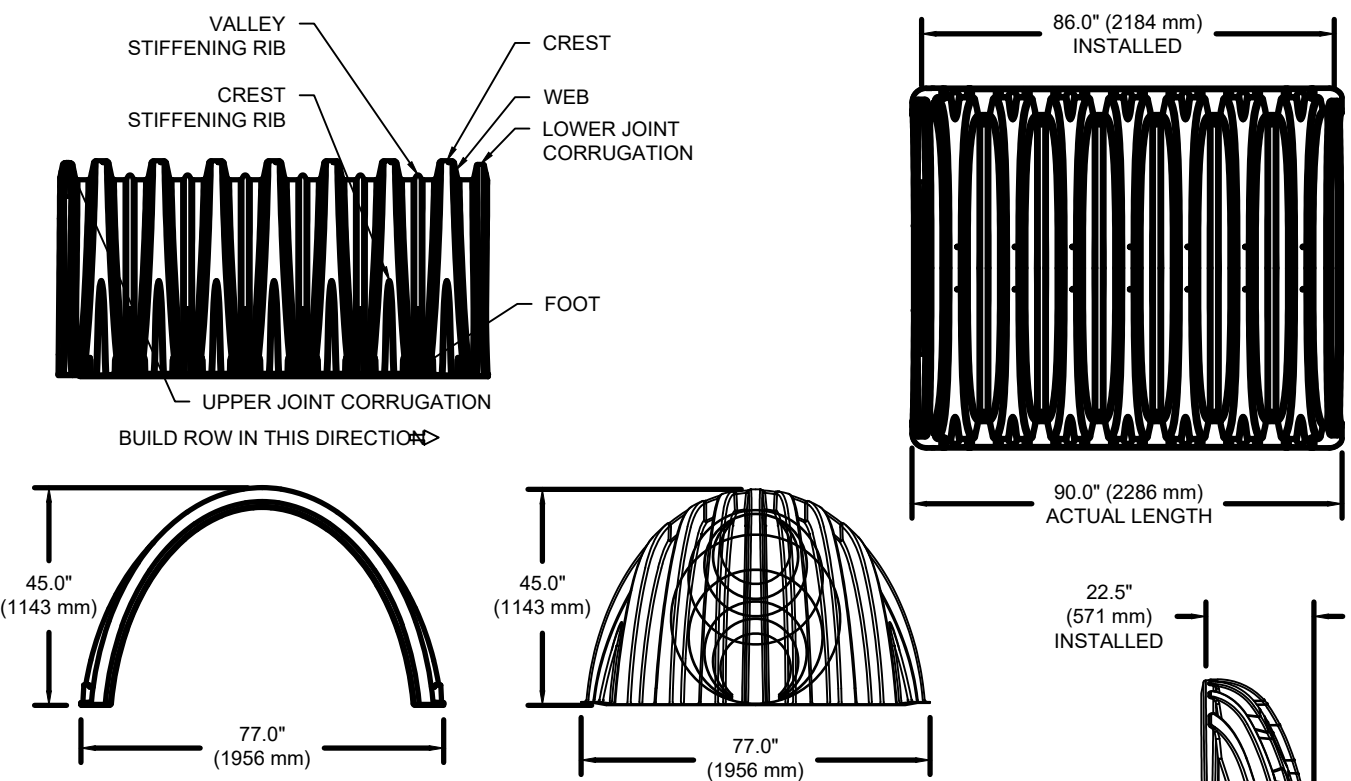
DRAINAGE DETAILS

DRAWING NUMBER

GR-15

STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500 AND STORM TECH MC-4500.
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
 - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET, THE 90 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
CHAMBER STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT

77.0\"/>

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
END CAP STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT

77.0\"/>

*ASSUMES 12\"/>

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "M"

PART #	STUB	B	C
MC3500IEPP06T	6\"/>	33.21\"/>	0.66\"/>
MC3500IEPP06B	---	---	---
MC3500IEPP08T	8\"/>	31.16\"/>	0.81\"/>
MC3500IEPP08B	---	---	---
MC3500IEPP10T	10\"/>	29.04\"/>	0.93\"/>
MC3500IEPP10B	---	---	---
MC3500IEPP12T	12\"/>	26.36\"/>	1.35\"/>
MC3500IEPP12B	---	---	---
MC3500IEPP15T	15\"/>	23.39\"/>	1.50\"/>
MC3500IEPP15B	---	---	---
MC3500IEPP18T	18\"/>	20.03\"/>	1.77\"/>
MC3500IEPP18B	---	---	---
MC3500IEPP24T	24\"/>	14.48\"/>	2.06\"/>
MC3500IEPP24B	---	---	---
MC3500IEPP24BW	---	---	---
MC3500IEPP30B	30\"/>	2.75\"/>	---

NOTE: ALL DIMENSIONS ARE NOMINAL

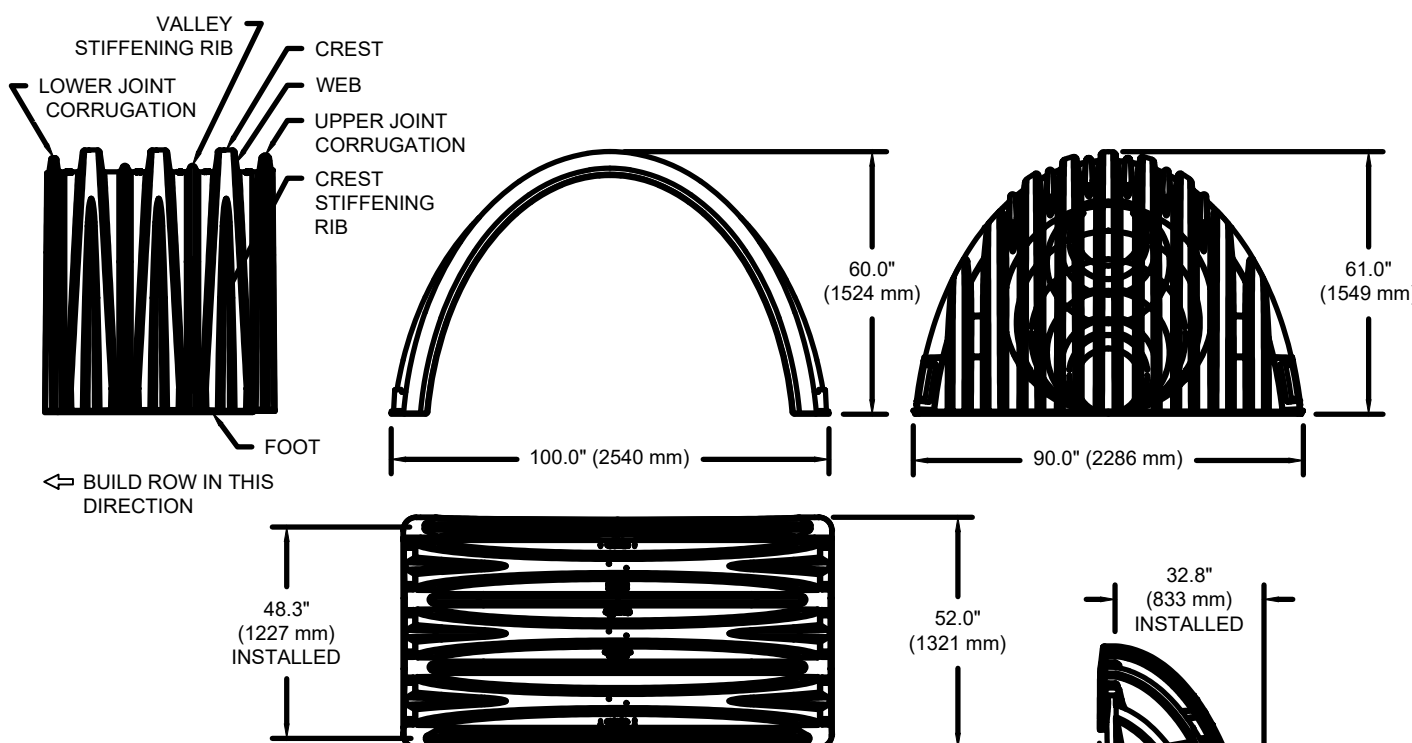
MC-3500 TECHNICAL SPECIFICATIONS NOT TO SCALE

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500/ MC-4500 CHAMBER SYSTEM

- STORMTECH CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
 - STORMTECH CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HCE OR EXCAVATOR.
 - THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
 - JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
 - MAINTAIN MINIMUM - 9\"/>
 - INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12\"/>
 - EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
 - STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
 - THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- NOTES FOR CONSTRUCTION EQUIPMENT**
- STORMTECH CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIERED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - FULL 36\"/>

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2894 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
CHAMBER STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT (NOMINAL)

100.0\"/>

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
END CAP STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT (NOMINAL)

90.0\"/>

*ASSUMES 12\"/>

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "M"

PART #	STUB	B	C
MC4500IEPP06T	6\"/>	42.54\"/>	0.86\"/>
MC4500IEPP06B	---	---	---
MC4500IEPP08T	8\"/>	40.50\"/>	1.01\"/>
MC4500IEPP08B	---	---	---
MC4500IEPP10T	10\"/>	38.37\"/>	1.33\"/>
MC4500IEPP10B	---	---	---
MC4500IEPP12T	12\"/>	35.69\"/>	1.55\"/>
MC4500IEPP12B	---	---	---
MC4500IEPP15T	15\"/>	32.72\"/>	1.70\"/>
MC4500IEPP15B	---	---	---
MC4500IEPP18T	18\"/>	29.36\"/>	1.97\"/>
MC4500IEPP18B	---	---	---
MC4500IEPP24T	24\"/>	23.05\"/>	2.26\"/>
MC4500IEPP24B	---	---	---
MC4500IEPP30BW	30\"/>	2.95\"/>	---
MC4500IEPP36BW	36\"/>	3.25\"/>	---
MC4500IEPP42BW	42\"/>	3.55\"/>	---

NOTE: ALL DIMENSIONS ARE NOMINAL

MC-4500 TECHNICAL SPECIFICATIONS NOT TO SCALE

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3\"/>
- B. ALL ISOLATOR ROW PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3\"/>
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45\"/>
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

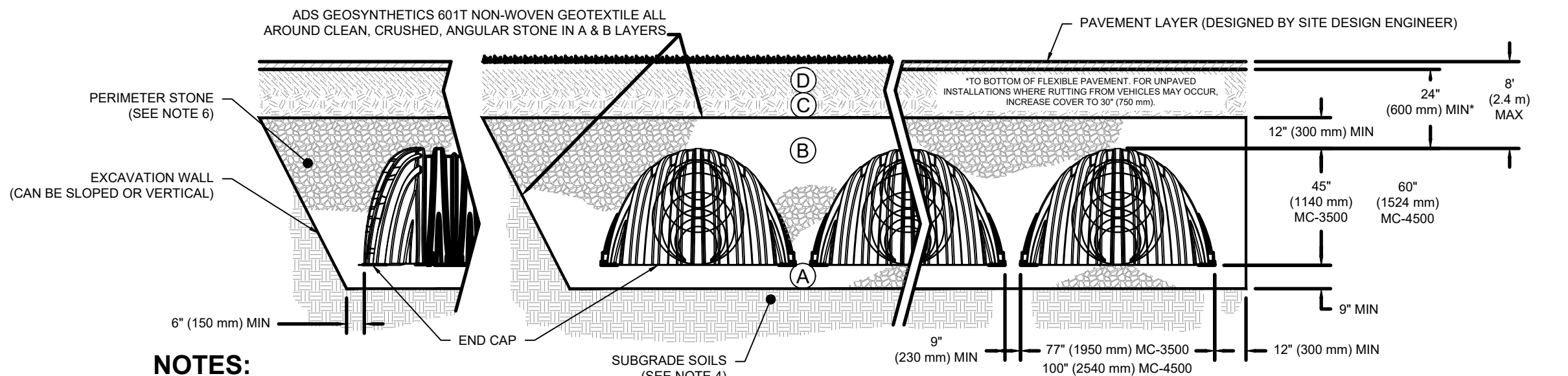
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500/ MC-4500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B LAYER) TO 24\"/>	AASHTO M44 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24\"/>
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 4	ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

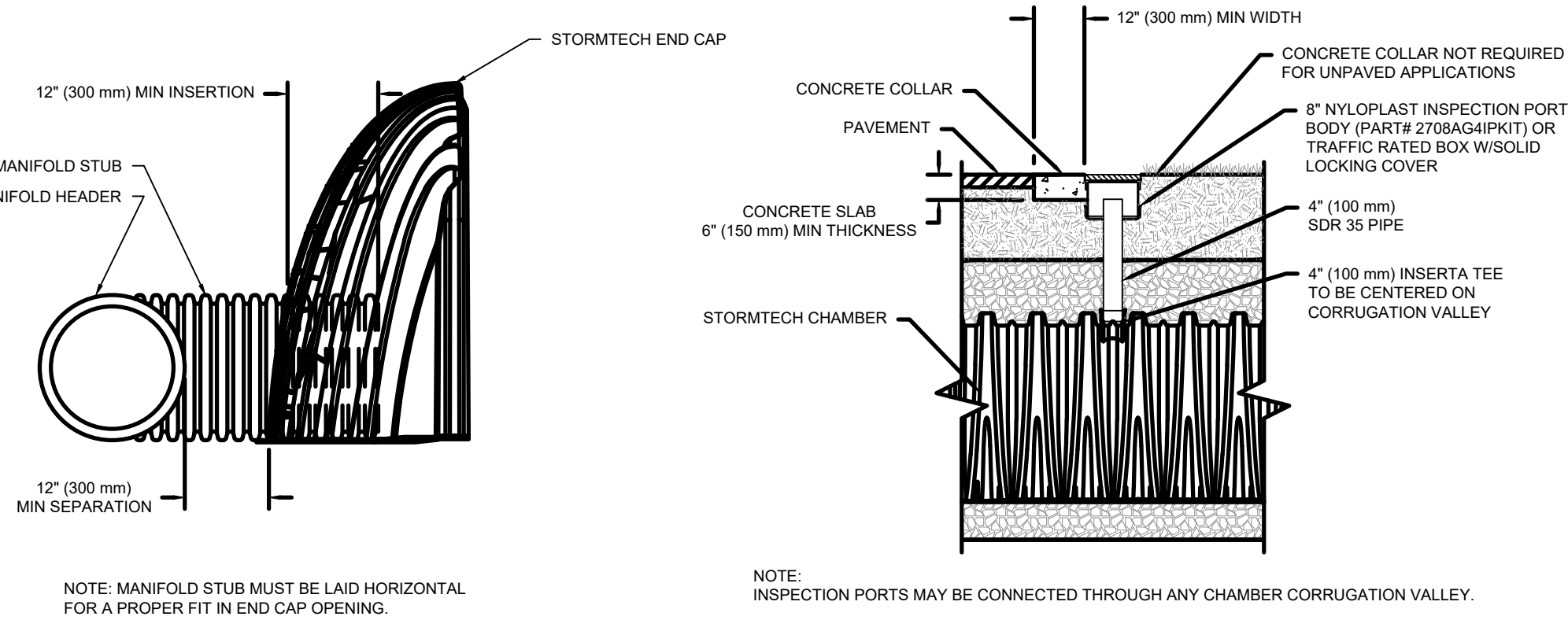
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LAYER MATERIALS WHEN PLACED AND COMPACTED IN 9\"/>
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



NOTES:

- CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESIGNS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

MC-3500/ MC-4500 CROSS SECTION DETAIL NOT TO SCALE



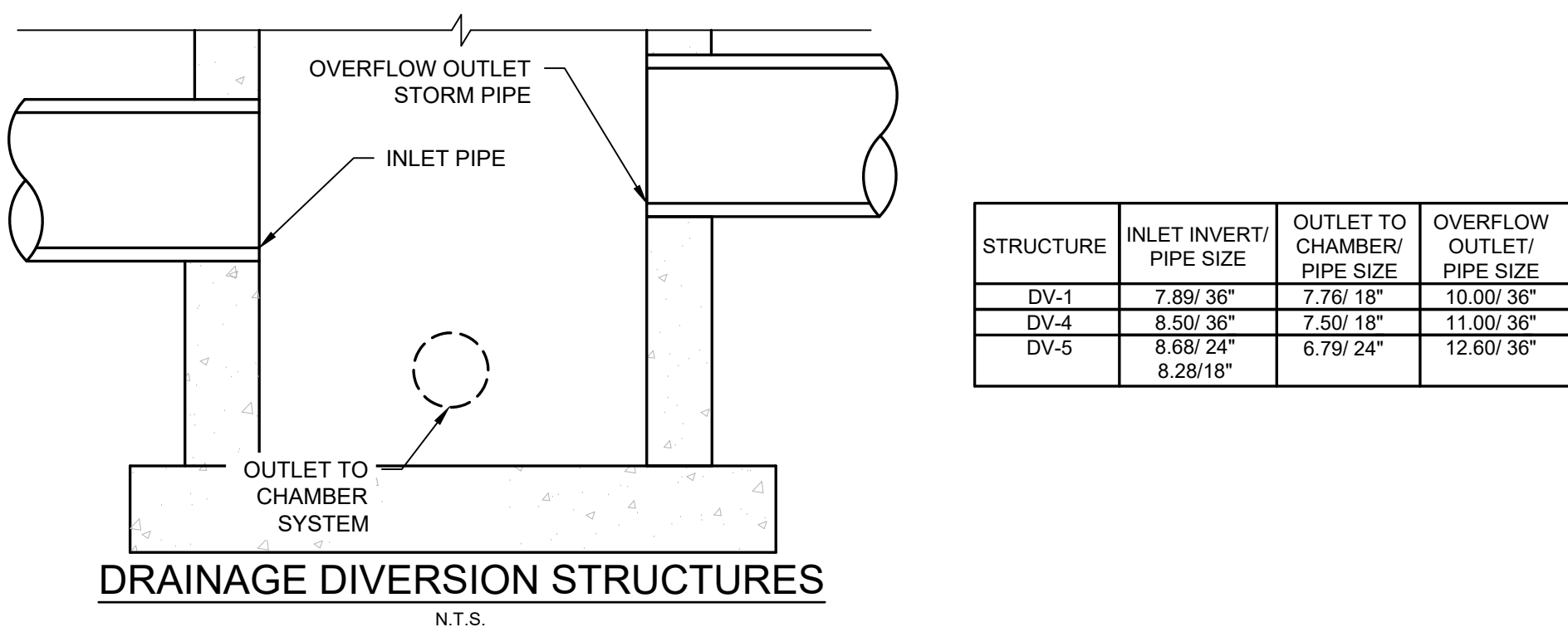
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INFILTRATION CHAMBER SYSTEM DATA							
SYSTEM NO.	SYSTEM TYPE ¹	DRAINAGE NETWORK	CHAMBER INV.	CHAMBER CROWN	WQv STORAGE VOLUME	WQv STORAGE ELEV.	PRE-TREATMENT
CM-1	MC-3500	1	6.75'	10.5'	23,600 Ft ³	10.0'	J-1
CM-4	MC-3500	4	6.75'	10.5'	20,500 Ft ³	11.0'	J-5
CM-5	MC-4500	5	6.75'	11.75'	20,300 Ft ³	12.6'	IS-S ²

NOTES:

- ENGINEER APPROVED EQUAL ALTERNATIVE MANUFACTURER UNDERGROUND STORM WATER STORAGE WILL BE CONSIDERED; IF AN ALTERNATIVE SYSTEM IS PROPOSED, IT SHALL MEET THE SAME PERFORMANCE CRITERIA WITH THE REQUIRED STORAGE VOLUME AT THE STATED WQv ELEVATION.
- PRE-TREATMENT SHALL BE PROVIDED BY A MC-4500 ISOLATOR ROW OR AN APPROVED EQUAL DEVICE APPROVED BY THE NYSDEC TO PROVIDE PRE-TREATMENT.



STRUCTURE	INLET INVERT/ PIPE SIZE	OUTLET TO CHAMBER/ PIPE SIZE	OVERFLOW OUTLET/ PIPE SIZE
DV-1	7.89/ 36"	7.76/ 18"	10.00/ 36"
DV-4	8.50/ 36"	7.50/ 18"	11.00/ 36"
DV-5	8.68/ 24"	6.79/ 24"	12.60/ 36"



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PROJECT MILESTONE

FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
2	06/06/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05/10/2022
PROJECT	18641.00



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DRAWING TITLE

DRAINAGE DETAILS

DRAWING NUMBER

GR-16

1. WATER SERVICE LINE (LATERALS) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE ALBANY COUNTY HEALTH DEPARTMENT, AND THE LOCAL WATER AUTHORITY.
2. ALL EROSION CONTROL MEASURES SHALL BE EMPLOYED DURING ALL PHASES OF CONSTRUCTION IN ACCORDANCE WITH ALL APPROPRIATE STANDARDS AND REQUIREMENTS. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED.
3. WATER MAINS AND ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF 5 FEET OF COVER FROM FINISH GRADE TO TOP OF PIPE.
4. LOCATIONS WHERE THERE ARE 90° BENDS SHALL BE CONSTRUCTED WITH 2 - 45° FITTINGS.
5. THE MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE 18" MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE, WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT FILL) SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS.
6. HYDRANT TYPE SHALL BE AS NOTED ON THE PLANS OR AS REQUIRED BY THE TOWN OF BETHLEHEM. GUARD VALVES SHALL BE USED AND ALL HYDRANT STUB PIPING SHALL BE MECHANICAL JOINT. FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN 7 FEET OF THE FINISHED GRADE. ALL PLUGS SHALL BE MECHANICAL METAL PLUGS. ALL HYDRANTS WITH PLUGGED WEEP HOLES SHALL BE APPROPRIATELY TAGGED.
7. ALL MECHANICAL JOINTS, FITTINGS (TEES, BENDS, PLUGS), ETC. SHALL BE BACKED WITH 3,000 P.S.I. CONCRETE THRUST BLOCKS OR APPROVED MECHANICAL RESTRAINTS.
8. WHERE PIPING IS TO BE PLACED WITHIN FILL AREAS, THE FILL SHALL BE PLACED AND COMPACTED TO AT LEAST 95% MODIFIED PROCTOR PRIOR TO TRENCH EXCAVATION.
9. SHUTDOWN OF EXISTING WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL WATER AUTHORITY. THE TOWN OF BETHLEHEM WATER AND SEWER MANAGER MUST BE NOTIFIED IN ADVANCE OF ALL PROPOSED SHUTDOWNS IN ACCORDANCE WITH THEIR DIRECTION. WATER MUST BE TURNED BACK ON AS SOON AS POSSIBLE. ALL ENDS OF WATER MAINS MUST BE PROVIDED WITH ADEQUATE PLUG, BLOCK, AND BLOW-OFF AS INDICATED ON THE PLANS.
10. WATER SERVICE LINES SHALL BE SEPARATED AT LEAST 10 FEET, MEASURED FROM OUTSIDE OF THE PIPES, FROM SEWER MAINS AND SEPTIC SYSTEMS.
11. BACKFLOW PREVENTION SHALL BE PROVIDED IN BUILDING. (SEE BUILDING PLANS)
12. BACKFLOW PREVENTION APPLICATION MUST BE SUBMITTED TO AND APPROVED BY THE SUPPLIER, WHO WILL, FORWARD THE PLANS TO THE NYS DEPARTMENT OF HEALTH FOR THEIR APPROVAL. THE APPROVAL PROCESS MUST BE COMPLETED PRIOR TO INSTALLATION. THE APPROVAL PROCESS SHOULD BE STARTED EARLY TO AVOID UNNECESSARY DELAYS OR CONFLICTS WITH OTHER HEALTH DEPARTMENT APPROVALS.

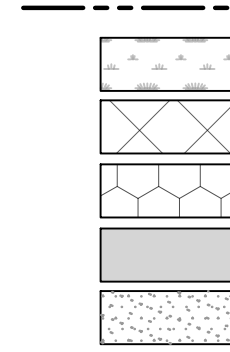
1. POLYETHYLENE (PE) PRESSURE PIPE MUST BE PE 3408-DR9 (DOMESTIC) PE 4710-DR1 (FIRE PROTECTION) MATERIAL MINIMUM. CONFORMING TO THE LATEST REVISION OF AWWA C901 AND C906.
- WATER SYSTEM TESTS:
1. SOIL TEST. THE CONTRACTOR SHALL PROVIDE A SOIL TEST EVALUATION TO DETERMINE THE NEED FOR POLYETHYLENE ENCASEMENT PER ANSI/AWWWS C105/A21 5-82 PRIOR TO WATER MAIN INSTALLATION. SOIL TESTING SHALL BE CONDUCTED BY AN APPROVED SOIL TESTING LABORATORY IN ACCORDANCE WITH LOCAL WATER AUTHORITY STANDARDS.
 2. WATER PIPING SHALL BE FLUSHED AND TESTED IN CONFORMANCE WITH THE LATEST REVISION OF ANSI/AWWA C600 STANDARD FOR DUCTILE IRON PIPE, C605 FOR PVC PIPE, OR EQUIVALENT OF C600 AND/OR C605 FOR PE PIPE.
 3. THE PROPOSED WORKS MUST CONFORM TO THE LATEST REVISION OF ANSI/AWWA C651 STANDARD, TABLE METHOD EXCEPTED. FOLLOWING FLUSHING AND TESTING, THE ENGINEER SHALL OVERSEE COLLECTION OF AN APPROPRIATE NUMBER OF BACTERIOLOGICAL SAMPLES FOR THE TOTAL AND FECAL COLIFORM AND FOR STANDARD BACTERIAL PLATE COUNT AFTER THE FIELD FREE CHLORINE RESIDUAL IS LESS THAN 1.5 PPM AND THE SAMPLING POINTS HAVE BEEN DECONTAMINATED. PRIOR TO SAMPLING, THE ENGINEER SHALL COORDINATE THE APPROPRIATE NUMBER AND LOCATION OF SAMPLES TO BE COLLECTED WITH THE ALBANY COUNTY HEALTH DEPARTMENT.
 4. THE COMPLETED WORKS SHALL BE VERIFIED WITH ALBANY COUNTY HEALTH DEPARTMENT. PRIOR TO ISSUANCE, A NYS-LICENCED PROFESSIONAL ENGINEER MUST SUBMIT CERTIFICATION TO THE HEALTH DEPARTMENT THAT: THEY OR THEIR DESIGNATED REPRESENTATIVE WITNESSED THAT CONSTRUCTION WAS IN CONFORMANCE WITH THE PLANS AS APPROVED; FLUSHING, TESTING, AND DISINFECTION PROCEDURES NOTED HEREIN HAD BEEN PROPERLY PERFORMED; AND, MICROBACTERIAL SAMPLE RESULTS FROM THE COMPLETED WORKS WERE ACCEPTABLE. COPIES OF THE OFFICIAL LABORATORY RESULTS ARE TO BE INCLUDED WITH THE CERTIFICATION.
 5. FIRE HYDRANTS ARE NOT ACCEPTABLE TESTING/SAMPLING POINTS.
 6. WATER SERVICE LINES SIZED 4-INCHES OR GREATER SHALL BE:

1. SOIL TEST. THE CONTRACTOR SHALL PROVIDE A SOIL TEST EVALUATION TO DETERMINE THE NEED FOR POLYETHYLENE ENCASEMENT PER ANSI/AWWWS C105/AZI 1-5.82 PRIOR TO WATER MAIN INSTALLATION. SOIL TESTING SHALL BE CONDUCTED BY AN APPROVED SOIL TESTING LABORATORY IN ACCORDANCE WITH LOCAL WATER AUTHORITY STANDARDS.
2. WATER PIPING SHALL BE FLUSHED AND TESTED IN CONFORMANCE WITH THE LATEST REVISION OF ANSI/AWWWA C600 STANDARD FOR DUCTILE IRON PIPE, C605 FOR PVC PIPE, OR EQUIVALENT OF C600 AND/OR C605 FOR PE PIPE.
3. THE PROPOSED WORKS MUST CONFORM TO THE LATEST REVISION OF ANSI/AWWWA C651 STANDARD, TABLE METHOD EXCEPTED. FOLLOWING FLUSHING AND TESTING, THE ENGINEER SHALL OVERSEE COLLECTION OF AN APPROPRIATE NUMBER OF BACTERIOLOGICAL SAMPLES FOR THE TOTAL AND FECAL COLIFORM. AND/OR STANDARD BACTERIAL PLATE COUNT AFTER THE FIELD FREE CHLORINE RESIDUAL IS LESS THAN 1.5 PPM, AND THE SAMPLING POINTS HAVE BEEN DECONTAMINATED. PRIOR TO SAMPLING, THE ENGINEER SHALL COORDINATE THE APPROPRIATE NUMBER AND LOCATION OF SAMPLES TO BE COLLECTED WITH THE ALBANY COUNTY HEALTH DEPARTMENT.
4. THE COMPLETED WORKS SHALL BE VERIFIED WITH ALBANY COUNTY HEALTH DEPARTMENT. PRIOR TO ISSUANCE, A NYS-LICENSED PROFESSIONAL ENGINEER MUST SUBMIT CERTIFICATION TO THE HEALTH DEPARTMENT THAT: THEY OR THEIR DESIGNATED REPRESENTATIVE WITNESSED THAT CONSTRUCTION WAS IN CONFORMANCE WITH THE PLAN AS APPROVED; FLUSHING, TESTING, AND DISINFECTION PROCEDURES NOTED HEREIN HAD BEEN PROPERLY PERFORMED; AND, MICROBACTERIAL SAMPLE RESULTS FROM THE COMPLETED WORKS WERE ACCEPTABLE. COPIES OF THE OFFICIAL LABORATORY RESULTS ARE TO BE INCLUDED WITH THE CERTIFICATION.

- PRESSURE TESTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE LOCAL WATER AUTHORITY. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE FROM THE LOCAL WATER AUTHORITY.
- DISINFECTION BY USING THE CONTINUOUS FEED METHOD ACCORDING TO AWWA STANDARD SPECIFICATIONS. AFTER FLUSHING AND DISINFECTING THE SERVICE LINE, WATER SAMPLES SHALL BE COLLECTED BY THE ALBANY COUNTY HEALTH DEPARTMENT. APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE RECEIVED BEFORE THE LATERAL IS PLACED IN SERVICE.

1. ONLY DOMESTIC WASTE FROM THE PROJECT SHALL BE DISCHARGED INTO THE SANITARY SEWER.
2. ALL SANITARY LATERALS SHALL BE 6" PVC SDR-21 ASTM D2241 UNLESS OTHERWISE SPECIFIED ON THE PLANS.
3. A MINIMUM OF 4 FEET OF COVER SHALL BE PROVIDED OVER ENTIRE LENGTH OF ALL SANITARY LATERALS.
4. THE TOWN OF BETHLEHEM WATER AND SEWER MANAGER SHALL BE NOTIFIED FORTY-EIGHT HOURS IN ADVANCE OF CONNECTION OR TAP. [518-439-4955].
5. SANITARY SEWER LATERAL(S) AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE TOWN OF BETHLEHEM.
6. FLOOR DRAINS, IF CONSTRUCTED, SHALL BE CONNECTED TO THE SANITARY SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION/FOOTER DRAINS. NOTE: ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR ALBANY COUNTY SEWER USE LAW.
7. MAXIMUM SPACING BETWEEN CLEANOUTS ON SANITARY LATERALS MAY NOT EXCEED SEVENTY-FIVE (75) FEET.
8. MAXIMUM SPACING BETWEEN SANITARY MANHOLES MAY NOT EXCEED FOUR-HUNDRED (400) FEET.
9. EXFILTRATION AND/OR INFILTRATION FOR SANITARY SEWERS SHALL BE LIMITED TO 100 GALLONS PER DAY, PER MILE OF PIPE, PER INCH DIAMETER, AND SHALL BE PERFORMED IN ACCORDANCE WITH DISTRICT PROCEDURES. AIR TESTS, INCLUDING VACUUM TESTS, SHALL NOT BE ALLOWED ON SANITARY MANHOLES.
10. UPON COMPLETING CONSTRUCTION AND AFTER THE PIPE BACKFILL HAS BEEN IN PLACE FOR A PERIOD OF 30 DAYS, THE NEW SANITARY SEWER SHALL BE SUBJECT TO THE FOLLOWING TESTS AND PROCEDURES, FLUSH AND CLEAN THE SYSTEM, SEWER MAIN AIR PRESSURE/ EXFILTRATION TESTING, SEWER MANHOLE VACUUM/INFILTRATION TESTING (PERFORMED ONLY AFTER INVERTS AND BENCHES ARE FORMED), AND SEWER MAIN DEFLECTION TEST. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER ALL FINAL BACKFILL HAS BEEN IN PLACE AT LEAST THIRTY (30) DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF FIVE PERCENT (5%). IF THE DEFLECTION TEST IS RUN USING A RIGID BALL OR MANDREL, IT SHALL HAVE A MINIMUM DIAMETER EQUAL TO NINETY-FIVE PERCENT (95%) OF THE INSIDE DIAMETER OF THE PIPE. TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
11. MANHOLES SHALL BE 4' INSIDE DIAMETER UNLESS OTHERWISE SPECIFIED ON PLANS. MANHOLE FRAMES AND COVERS SHALL BE CAMPBELL MODEL NO. 1009, NEENAH FOUNDRY, INC. MODEL NO. R-1556, OR APPROVED EQUAL.
12. MIN DEFLECTION OF 3" PVC SDR21 ASTM D2241 FORCE MAIN SEWER LINE IS 0.7" FOR 20' LENGTHS.

PROPERTY LINE
WETLAND AREA
STORAGE AREA
DREDGING AREA
PAVEMENT AREA
CONCRETE AREA



PLANNING BOARD HTE# 21-00100006

A horizontal scale bar with tick marks at 0, 250, 500, and 750 feet. The bar is divided into segments: the first 250 feet is black and white checkered, the next 250 feet is solid black, and the final 250 feet is solid white. The word "SCALE" is centered below the bar.



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SaratogaROM@mjinc.com

PROJECT MILESTONE

FINAL DESIGN PLANS

[illegible]

CLIENT: ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT: **PORT OF ALBANY EXPANSION SITE**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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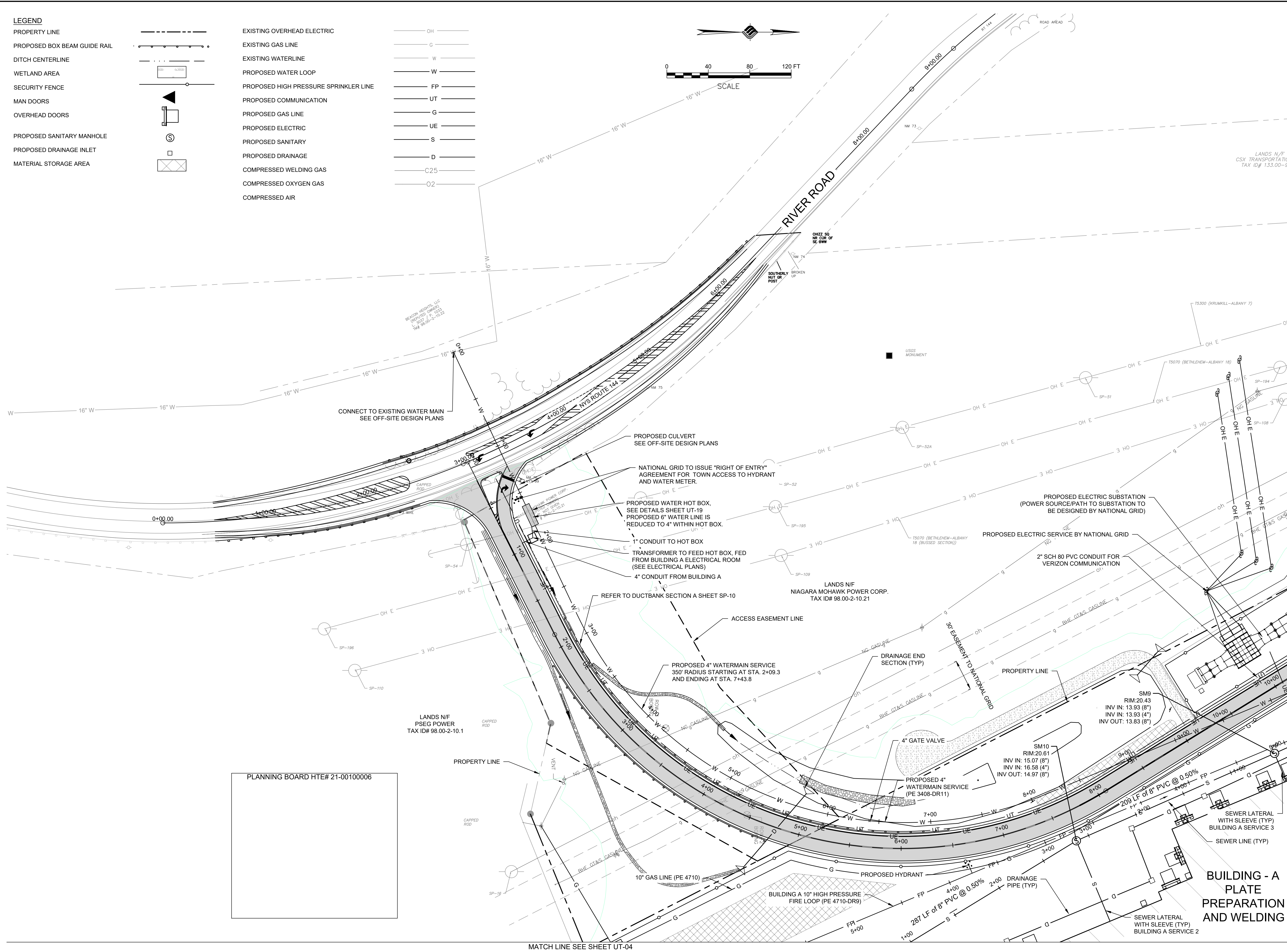
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UTILITY NOTES & INDEX

DRAWING NUMBER

UT-00

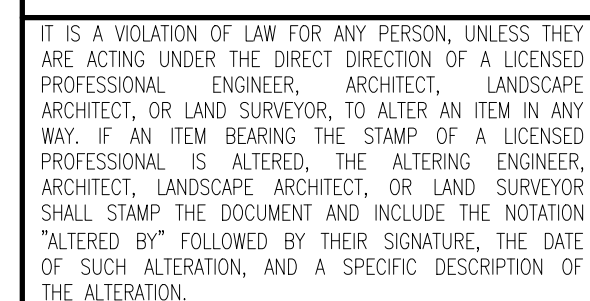
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ALBANY, NEW YORK

PROJECT: **PORT OF ALBANY EXPANSION SITE**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



DRAWING TITLE

UTILITY PLAN

DRAWING NUMBER

UT-01



PROJECT MILESTONE
FINAL DESIGN PLANS

CLIENT: ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

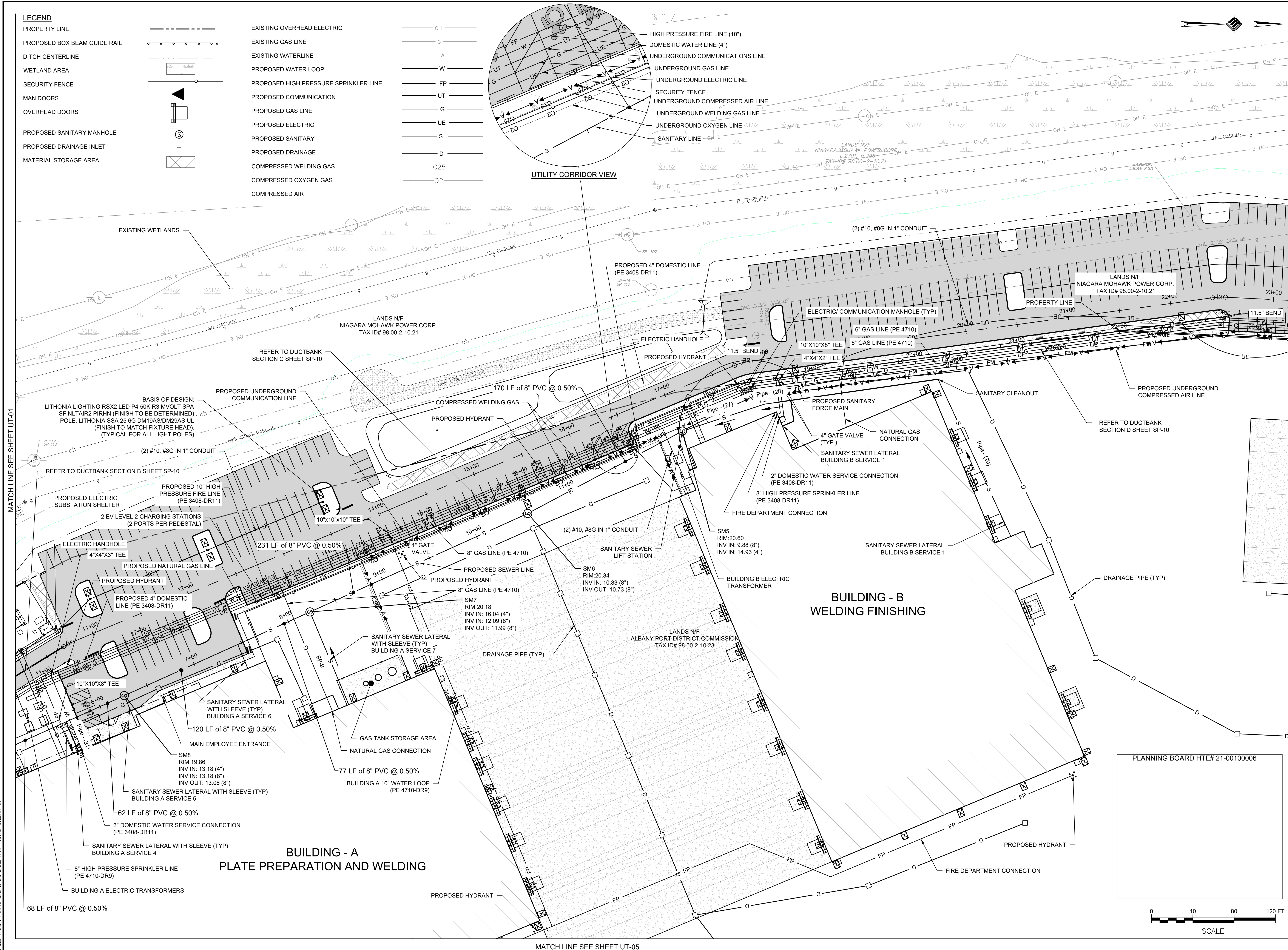
PROJECT: PORT OF ALBANY EXPANSION SITE

DRAWING TITLE

UTILITY PLAN

UT-02

38 OF 69





PROJECT MILESTONE

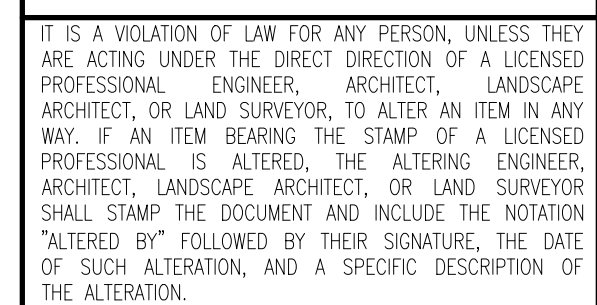
FINAL DESIGN PLANS

CLIENT: ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT: **PORT OF ALBANY EXPANSION SITE**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



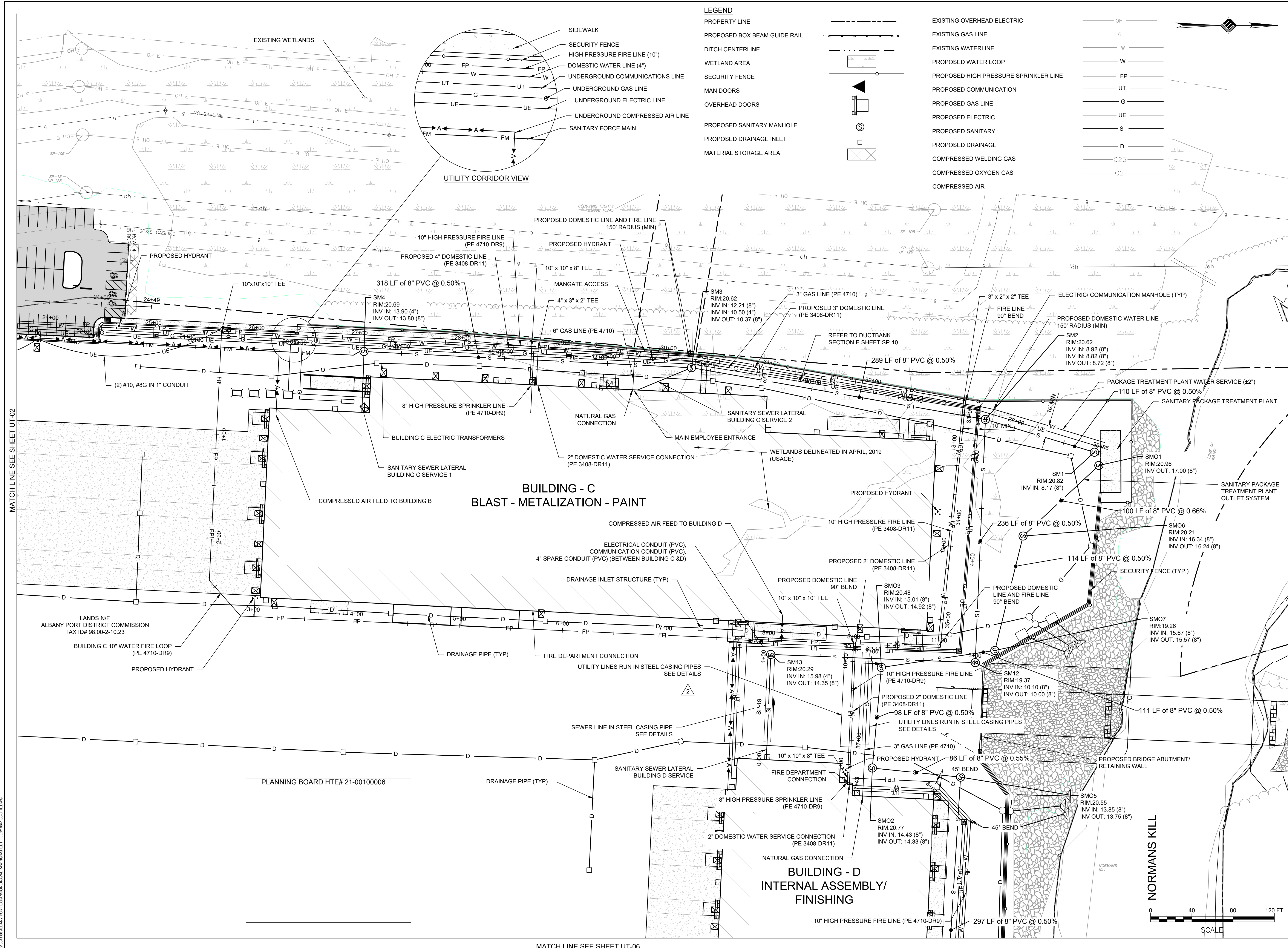
DRAWING TITLE

UTILITY PLAN

DRAWING NUMBER

UT-03

39 OF 69




MATCH LINE SEE SHEET UT-02

MATCH LINE SEE SHEET UT-06

N:\18641\05 ALBANY PORT EXPANSION\DRAWINGS\05 UTILITY\05 UT-05.DWG





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PROJECT MILESTONE


FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION
ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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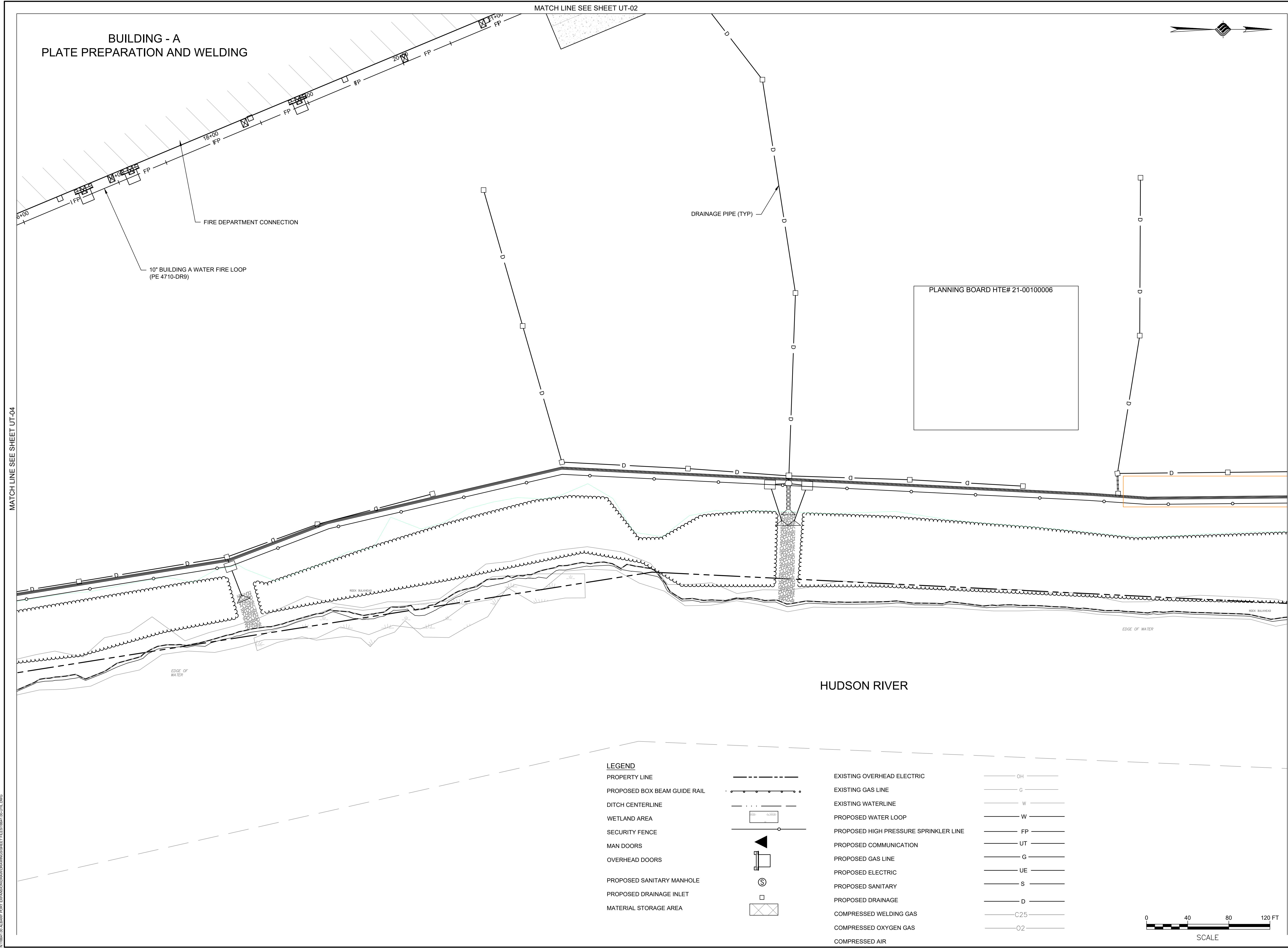
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UTILITY PLAN

DRAWING NUMBER

UT-04

40 OF 69





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PROJECT MILESTONE
FINAL DESIGN PLANS

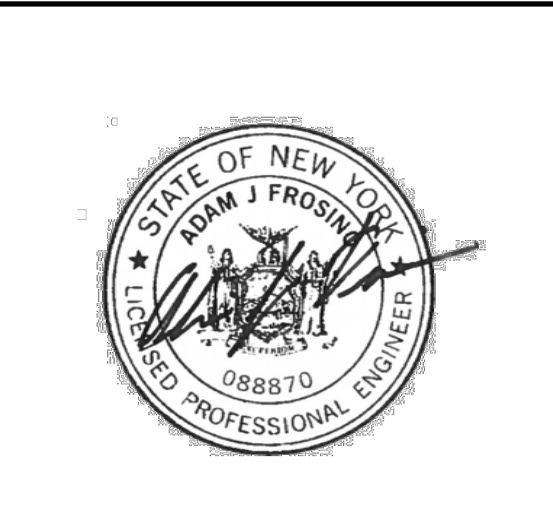
NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

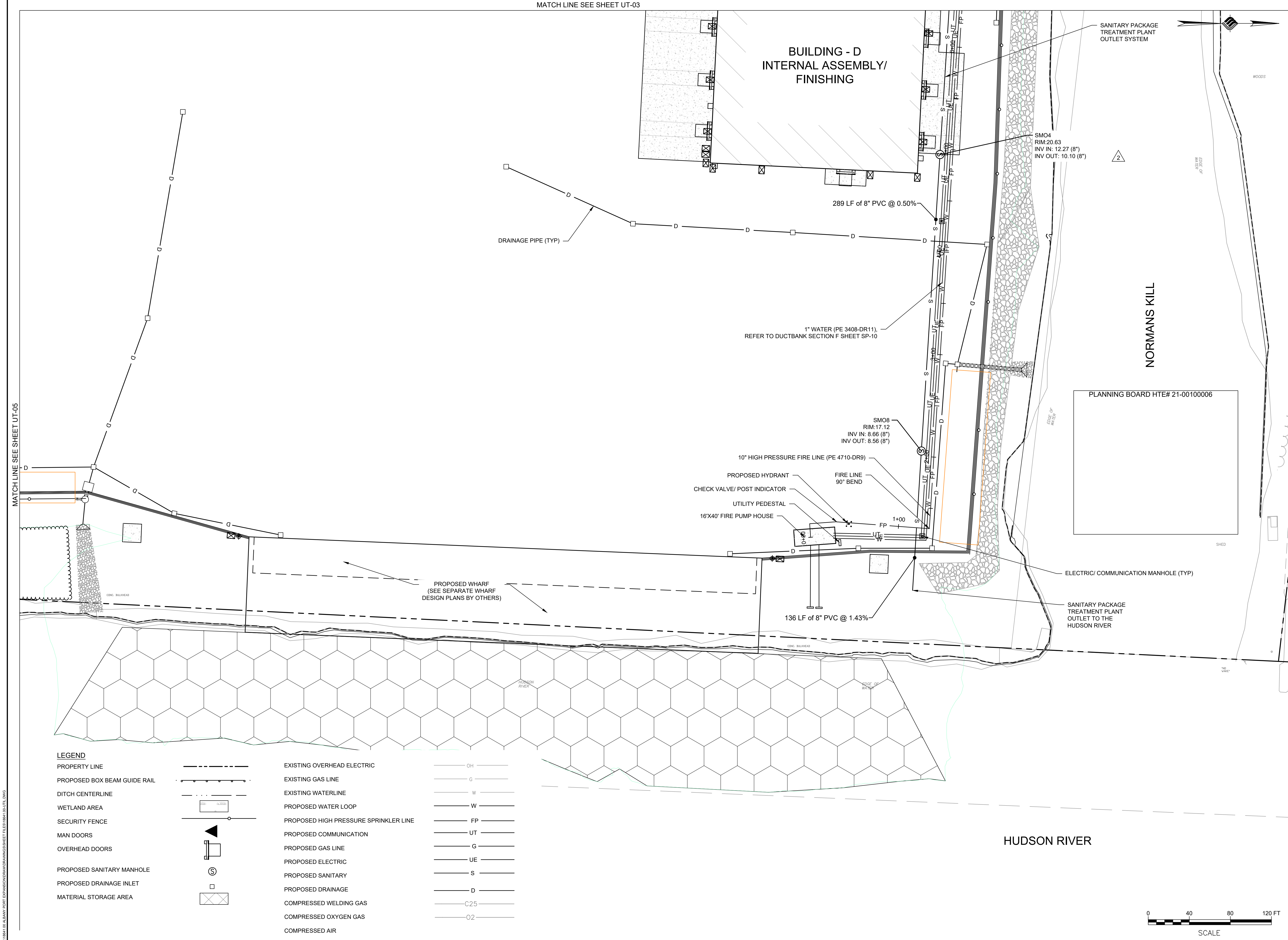
DRAWN	JES
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SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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DRAWING TITLE
UTILITY PLAN

DRAWING NUMBER
UT-05
41 OF 69



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
2	06/06/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
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DATE	05/10/2022
PROJECT	18641.00



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DRAWING TITLE

UTILITY PLAN

DRAWING NUMBER

UT-06



McFarland Johnson
60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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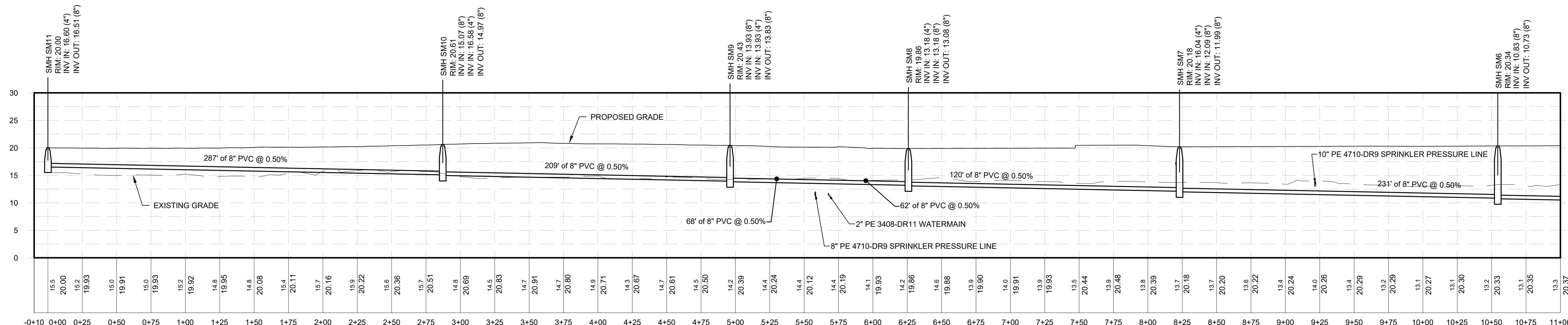
DRAWING TITLE

**SANITARY SYSTEM
PROFILE**

DRAWING NUMBER

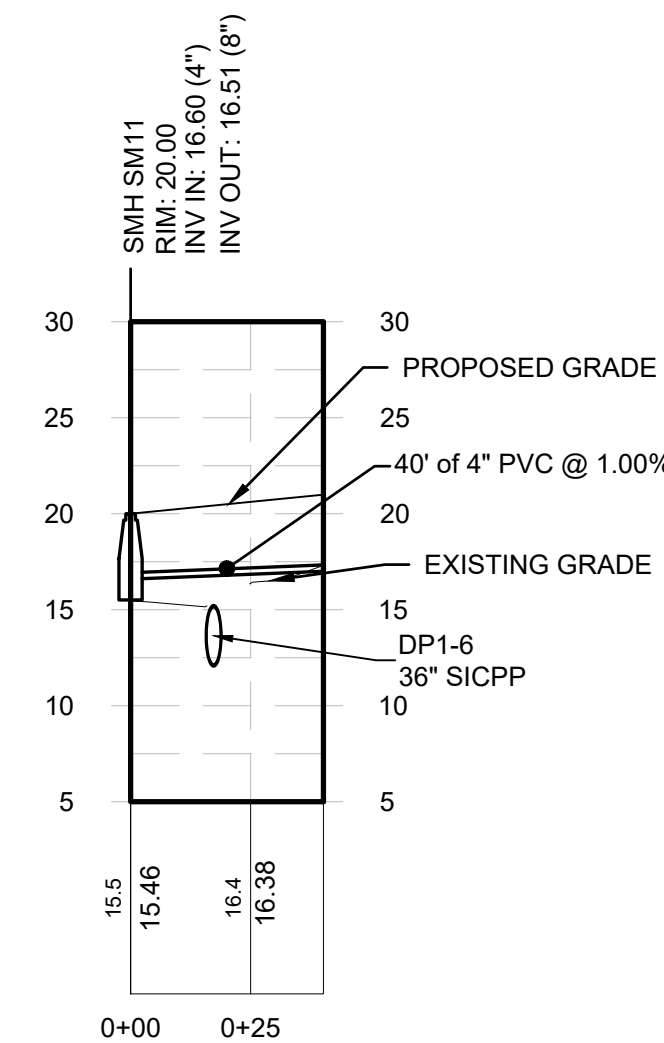
UT-07

43 OF 69

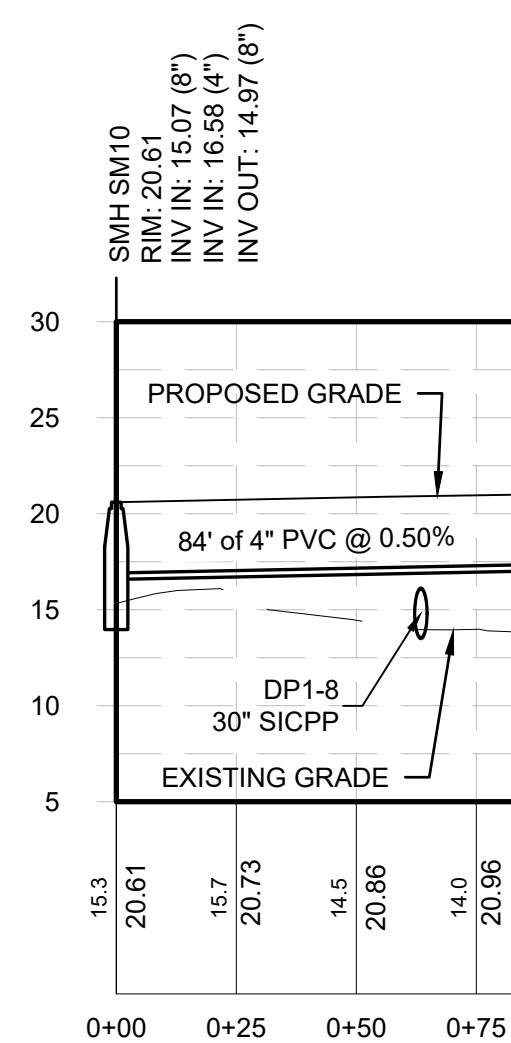


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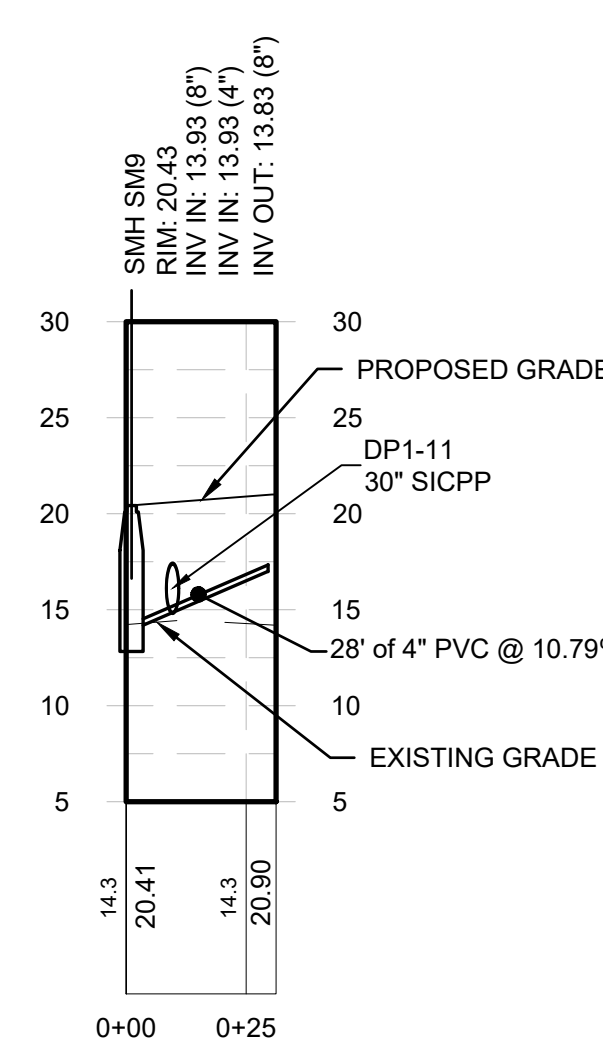
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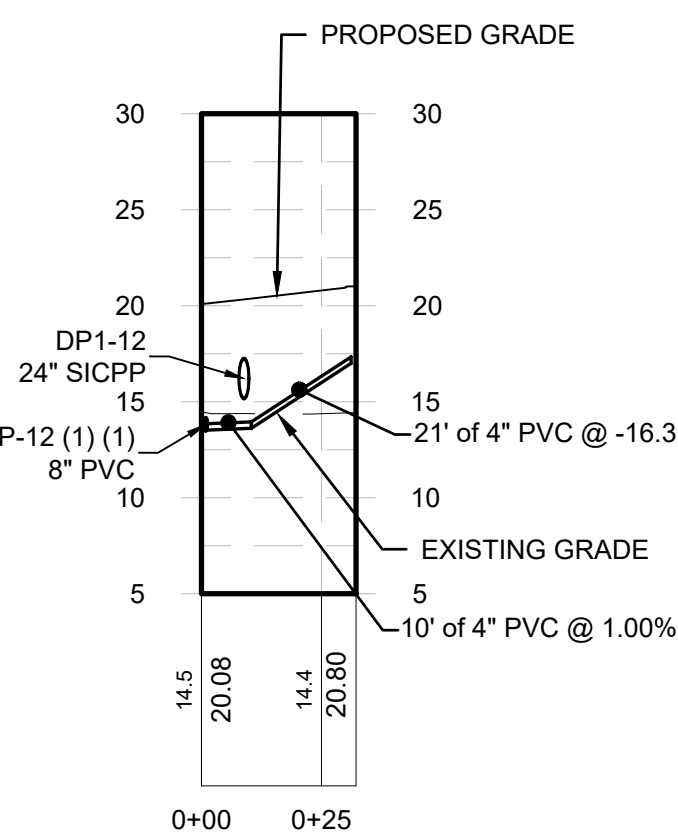
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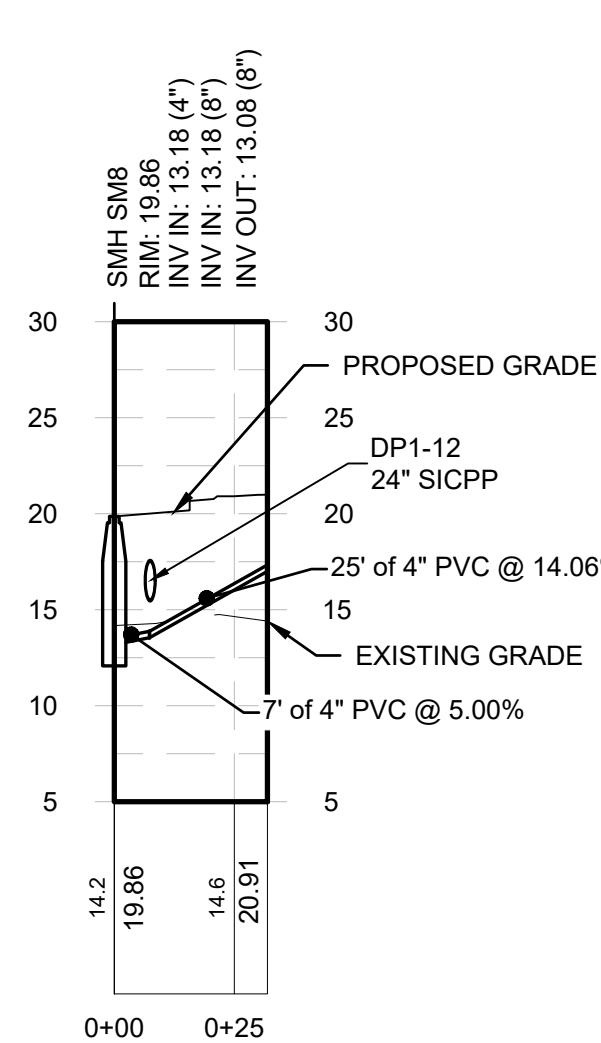
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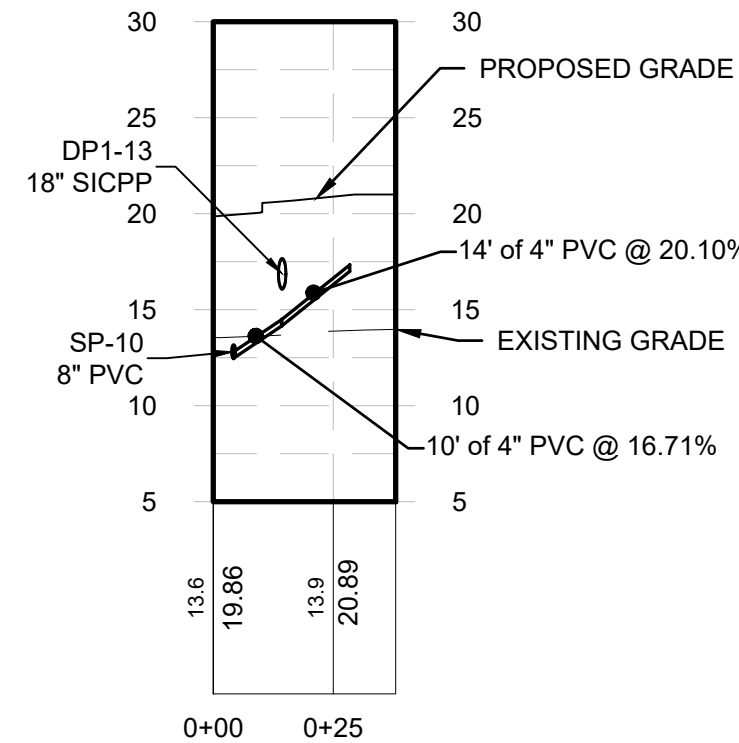
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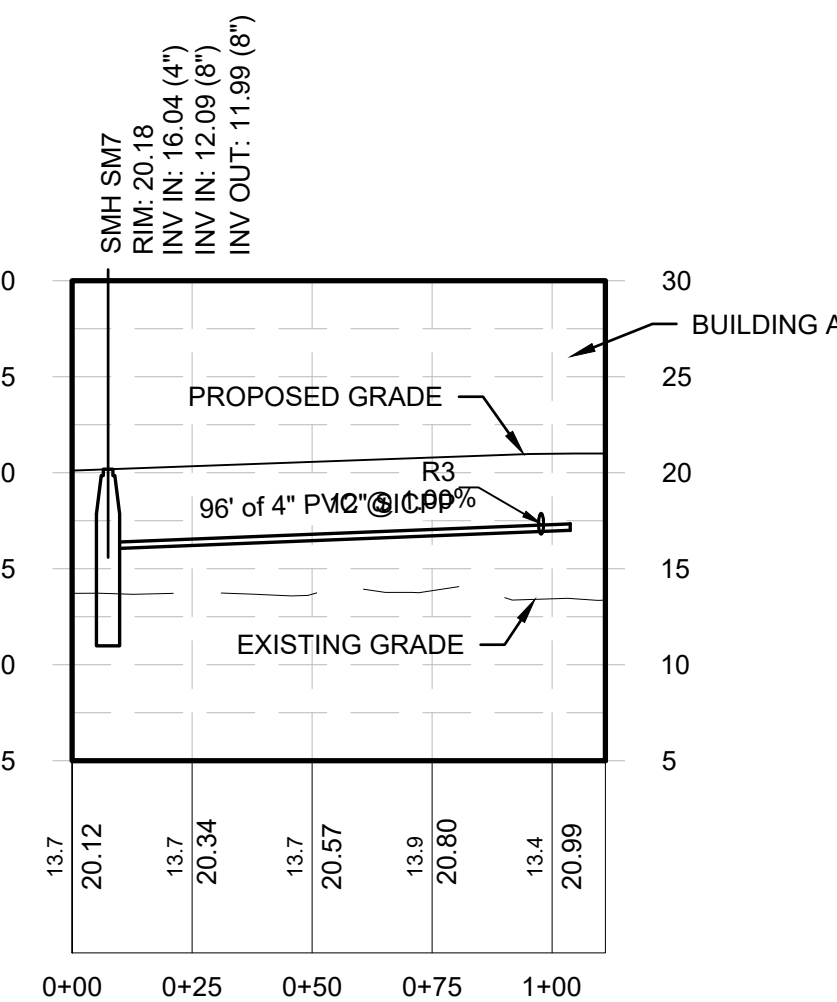
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Bldg A service 5
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



Bldg A- Service 6
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



Bldg A- Service 7
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'





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ALBANY, NEW YORK

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SCALE	AS SHOWN
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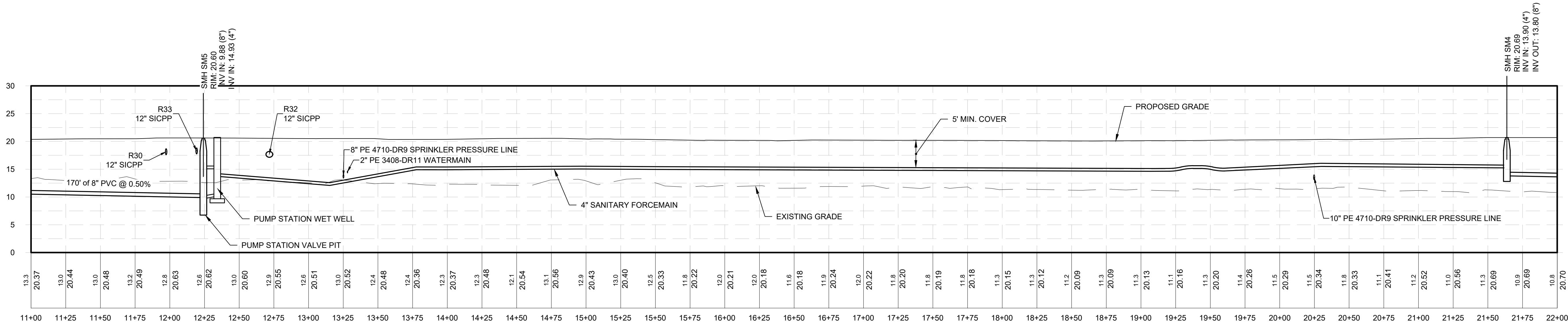
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE

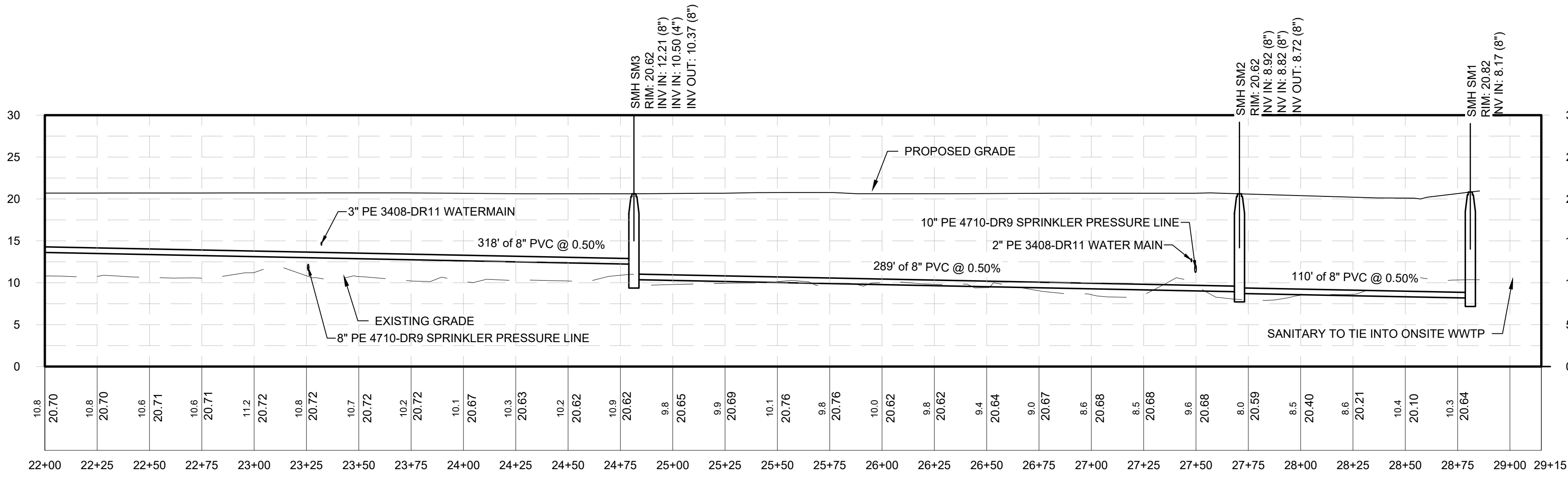
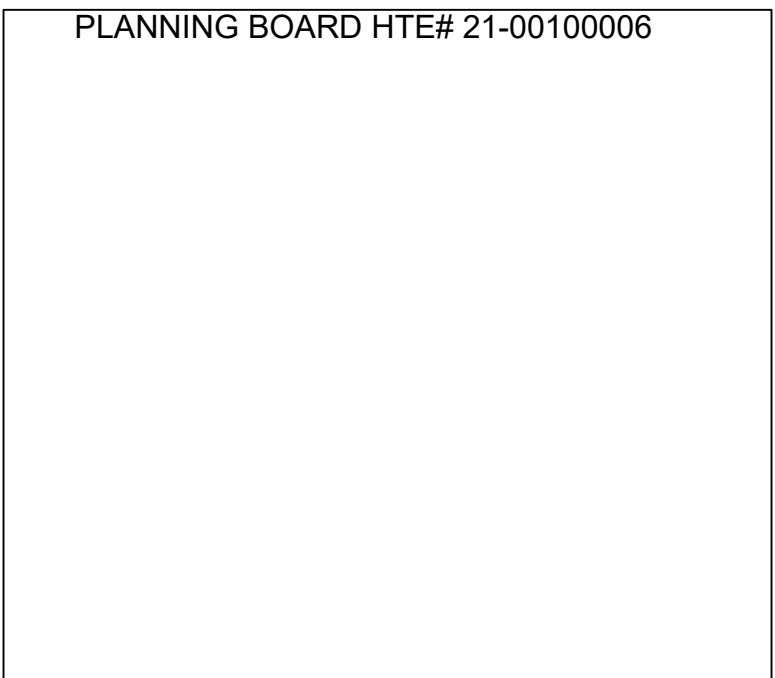
**SANITARY SYSTEM
PROFILE**

DRAWING NUMBER

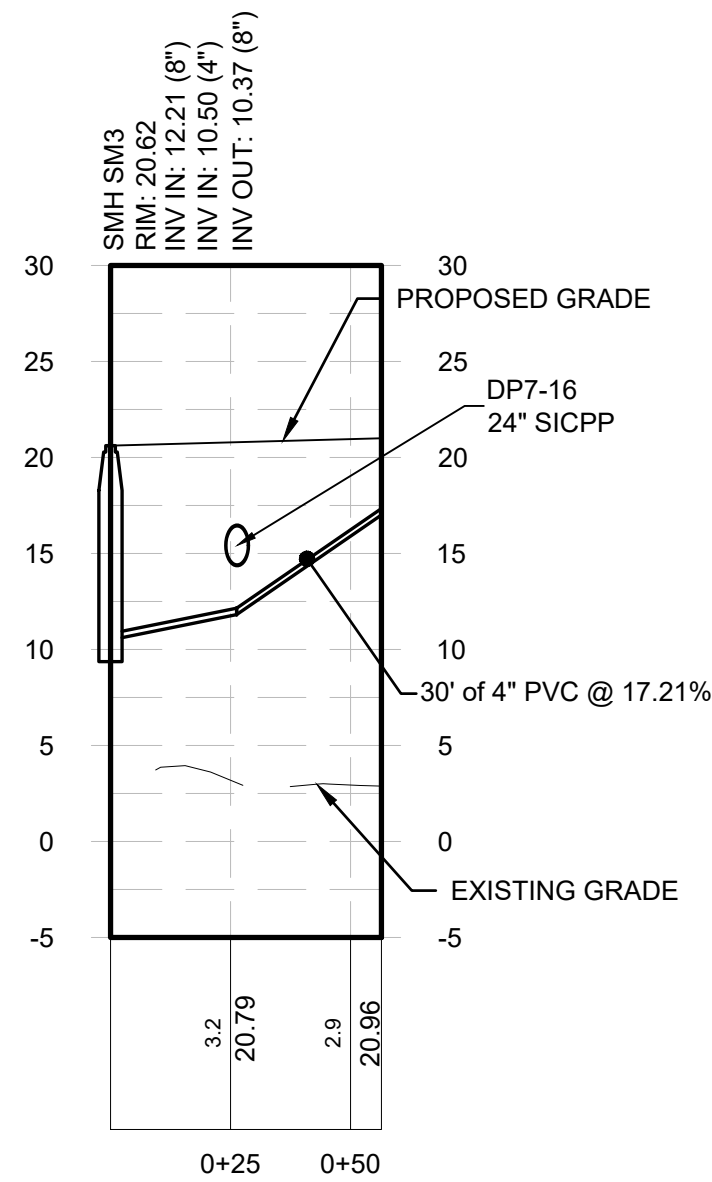
UT-08



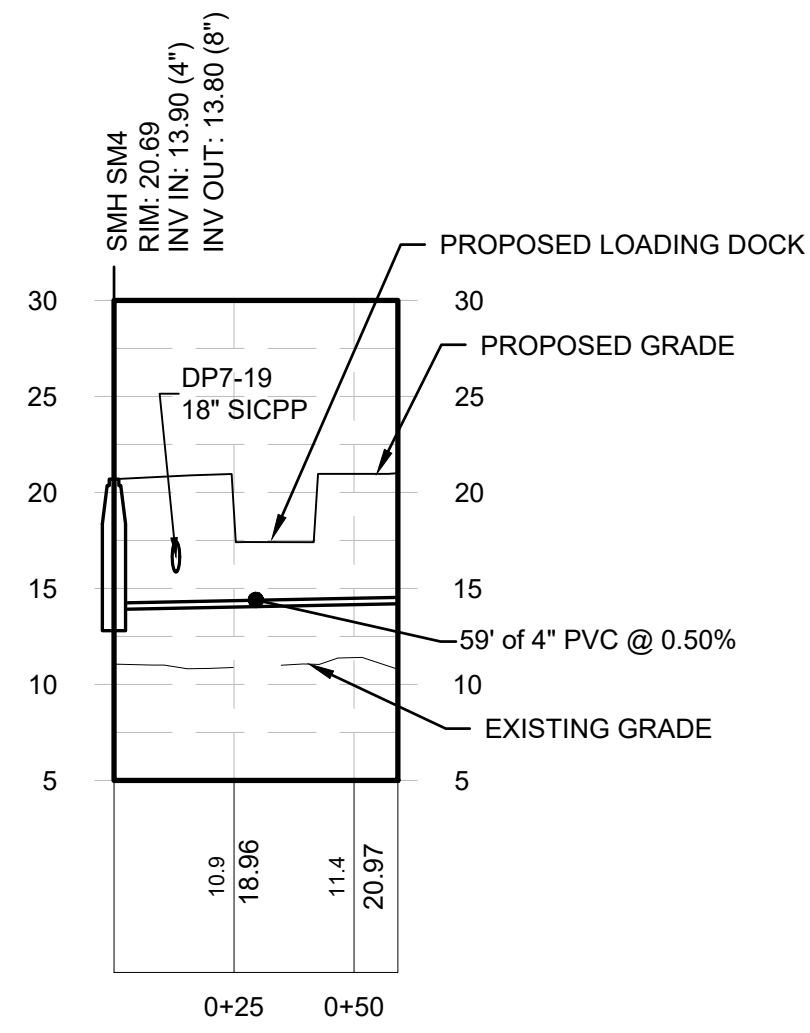
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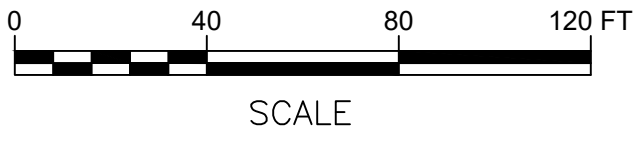
SM3 TO SM1
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



Bldg C service 2
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



Bldg C service 1
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'





McFarland Johnson

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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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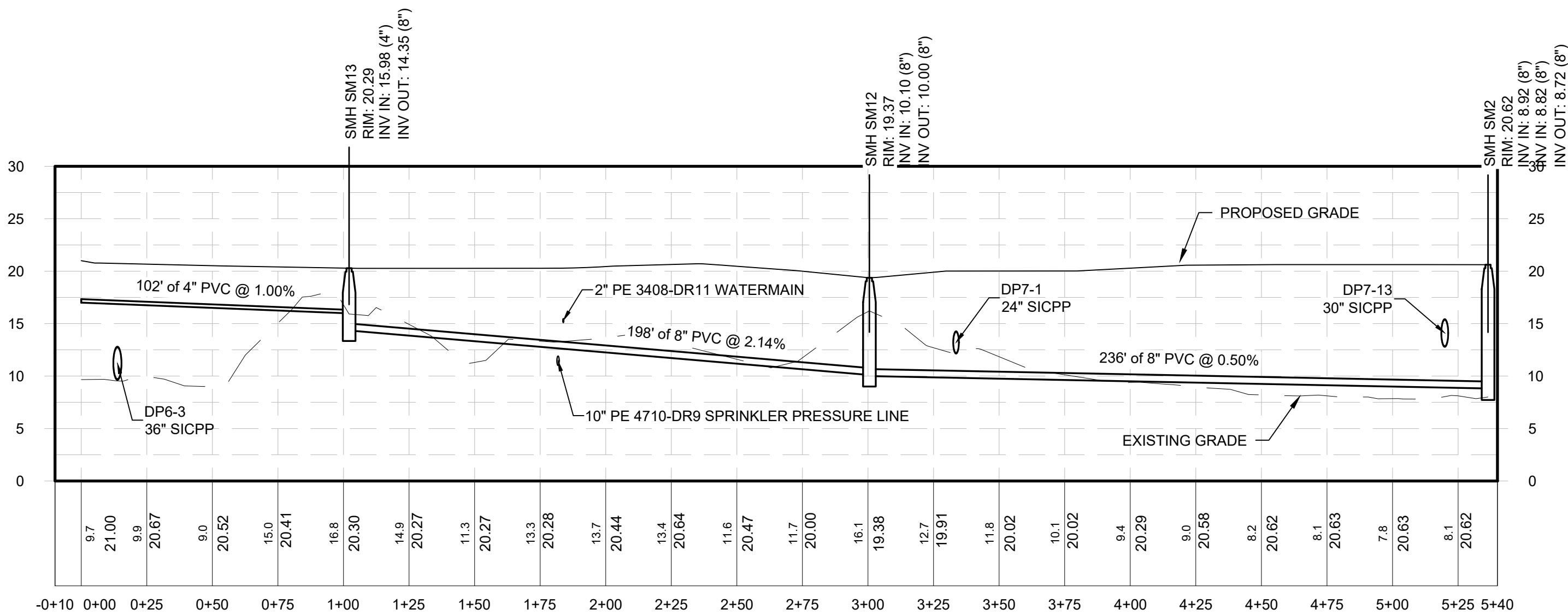
DRAWING TITLE

SANITARY SYSTEM
PROFILE & TABLES

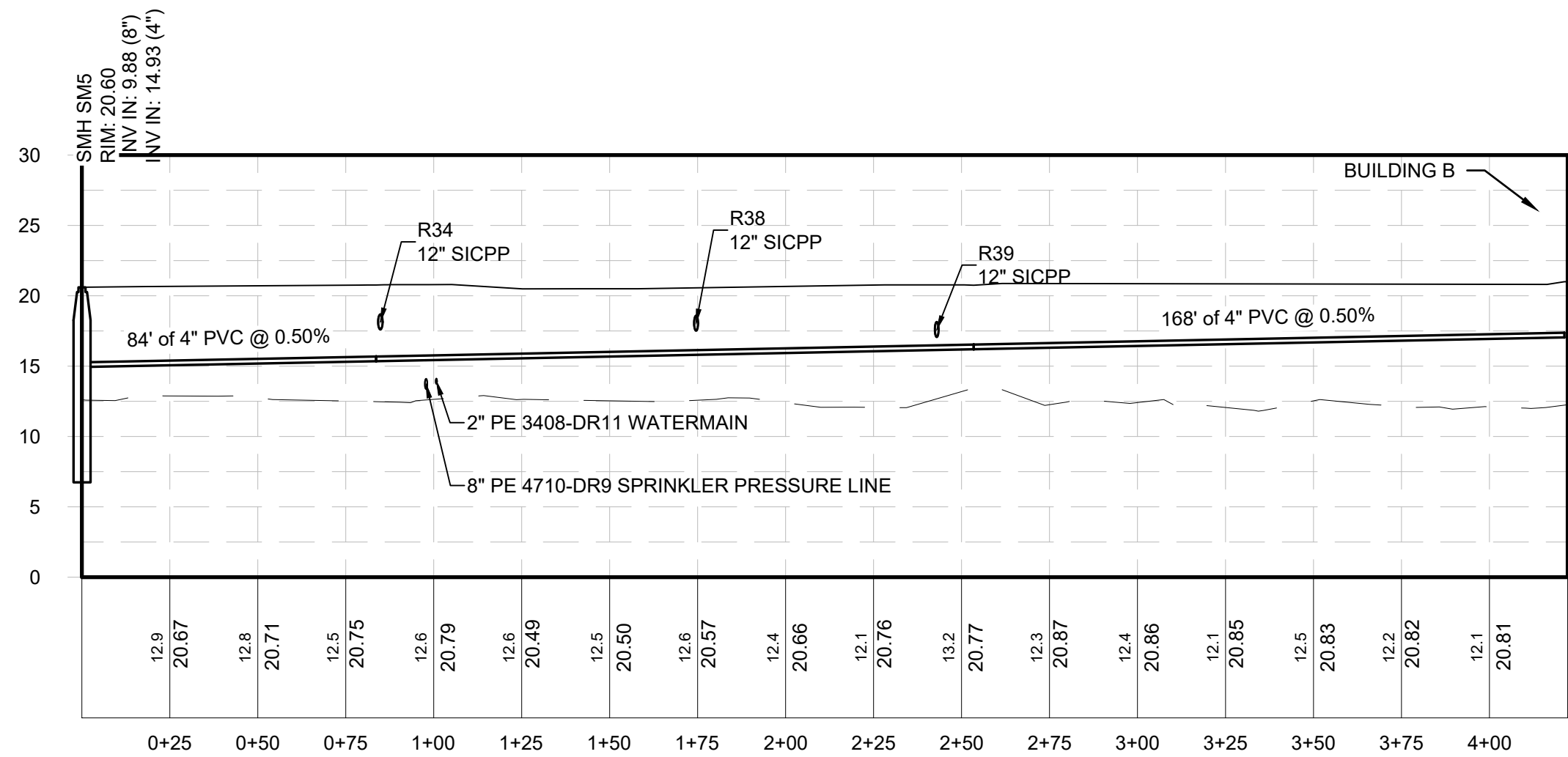
DRAWING NUMBER

UT-09

45 OF 69



SM13 TO SM2
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

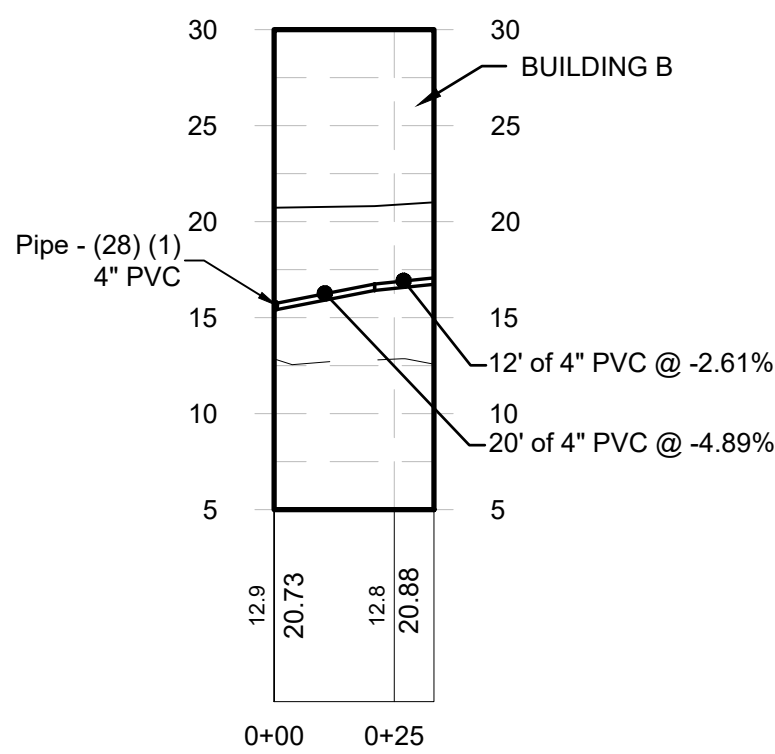


Bldg B - Service
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

STRUCTURE TABLE						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
SM1	20.82	8.17		Concentric Cylindrical Structure	1375669.74	689393.32
SM2	20.62	8.92 8.82	8.72	Concentric Cylindrical Structure	1375564.11	689361.57
SM3	20.62	12.21 10.50	10.37	Concentric Cylindrical Structure	1375279.19	689311.41
SM4	20.69	13.90	13.80	Concentric Cylindrical Structure	1374961.80	689295.77
SM5	20.60	9.88 14.93		Concentric Cylindrical Structure	1374035.04	689372.69
SM6	20.34	10.83	10.73	Concentric Cylindrical Structure	1373885.22	689452.44
SM7	20.18	16.04 12.09	11.99	Concentric Cylindrical Structure	1373674.34	689547.82
SM8	19.86	13.18 13.18	13.08	Concentric Cylindrical Structure	1373494.56	689628.88
SM9	20.43	13.93 13.93	13.83	Concentric Cylindrical Structure	1373376.33	689682.17
SM10	20.61	15.07 16.58	14.97	Concentric Cylindrical Structure	1373185.17	689766.52
SM11	20.00	16.60	16.51	Concentric Cylindrical Structure	1372940.09	689916.22
SM12	19.37	10.10	10.00	Concentric Cylindrical Structure	1375554.26	689597.25
SM13	20.29	15.98	14.35	Concentric Cylindrical Structure	1375356.04	689589.29
Structure - (27)	14.22	13.49 13.52	13.49	Null Structure	1373438.09	689654.33
Structure - (29)	13.20	12.48 12.48	12.48	Null Structure	1373604.41	689579.35
Structure - (30)	14.52	14.15	14.15	Null Structure	1373608.27	689588.58
Structure - (31)	13.92	13.55	13.55	Null Structure	1373497.39	689635.65
Structure - (32)	15.72	15.35	15.35	Null Structure	1374114.45	689346.57
Structure - (33)	16.57	16.20	16.20	Null Structure	1374282.54	689322.39
Structure - (34)	12.18	11.81	11.81	Null Structure	1375254.89	689321.47
Structure - (35)	13.99		13.62 13.62	Null Structure	1373441.76	689663.12
Structure - (36)	15.79	15.42	15.42	Null Structure	1374127.90	689344.63
Structure - (37)	16.79			Null Structure	1374130.81	689364.86
Structure - (47)	16.79	16.42	16.42	Null Structure	1374142.86	689363.11

PIPE TABLE						
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC
Pipe - (22)	4"	28.45'	10.79%	PVC		SM9
Pipe - (23)	4"	9.52'	1.00%	PVC	Structure - (35)	Structure - (27)
Pipe - (24)	4"	10.00'	16.71%	PVC	Structure - (30)	Structure - (29)
Pipe - (25)	4"	14.18'	20.10%	PVC	Structure - (30)	
Pipe - (26)	4"	24.56'	14.06%	PVC		Structure - (31)
Pipe - (27)	4"	83.59'	0.50%	PVC	SM5	Structure - (32)
Pipe - (28)	4"	13.60'	0.50%	PVC	Structure - (32)	Structure - (36)
Pipe - (28) (1)	4"	156.23'	0.50%	PVC	Structure - (36)	Structure - (33)
Pipe - (29)	4"	167.83'	0.50%	PVC	Structure - (33)	
Pipe - (30)	4"	30.13'	17.21%	PVC		Structure - (34)
Pipe - (31)	4"	20.73'	-16.31%	PVC	Structure - (35)	
Pipe - (32)	4"	20.43'	-4.89%	PVC		Structure - (47)
Pipe - (33)	4"	12.25'	-2.61%	PVC	Structure - (47)	
SP-1	8"	110.30'	0.50%	PVC	SM2	SM1
SP-2	8"	289.30'	0.50%	PVC	SM3	SM2
SP-3	4"	26.30'	5.00%	PVC	Structure - (34)	SM3
SP-4	8"	317.77'	0.50%	PVC	SM4	SM3
SP-5	4"	59.14'	0.50%	PVC		SM4
SP-6	8"	169.72'	0.50%	PVC	SM6	SM5
SP-8	8"	231.45'	0.50%	PVC	SM7	SM6
SP-9	4"	96.28'	1.00%	PVC		SM7
SP-10	8"	120.49'	0.50%	PVC	SM8	Structure - (29)
SP-10 (1)	8"	76.71'	0.50%	PVC	Structure - (29)	SM7
SP-11	4"	7.34'	5.00%	PVC	Structure - (31)	SM8
SP-12 (1)	8"	67.75'	0.50%	PVC	SM9	Structure - (27)
SP-12 (1) (1)	8"	61.95'	0.50%	PVC	Structure - (27)	SM8
SP-13	8"	208.94'	0.50%	PVC	SM10	SM9
SP-14	4"	83.57'	0.50%	PVC		SM10
SP-15	8"	287.18'	0.50%	PVC	SM11	SM10
SP-16	4"	40.18'	1.00%	PVC		SM11
SP-17	8"	235.89'	0.50%	PVC	SM12	SM2
SP-18	8"	198.38'	2.14%	PVC	SM13	SM12
SP-19	4"	102.15'	1.00%	PVC		SM13

PIPE TABLE						
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC
SPO-1	8"	100.42'	0.66%	PVC	SMO1	SMO6
SPO-2	8"	114.22'	0.50%	PVC	SMO6	SMO7
SPO-3	8"	111.23'	0.50%	PVC	SMO7	SMO3
SPO-4	8"	97.90'	0.50%	PVC	SMO3	SMO2
SPO-5	8"	86.00'	0.55%	PVC	SMO2	SMO5
SPO-6	8"	297.19'	0.50%	PVC	SMO5	SMO4
SPO-7	8"	289.33'	0.50%	PVC	SMO4	SMO8
SPO-8	8"	135.97'	1.43%	PVC	SMO8	



BLDG B SERVICE 1
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

STRUCTURE TABLE						
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
SMO1	20.96		17.00	Concentric Cylindrical Structure	1375674.11	689406.12
SMO2	20.77	14.43	14.33	Concentric Cylindrical Structure	1375454.50	689699.41
SMO3	20.48	15.01	14.92	Concentric Cylindrical Structure	1375463.28	689601.90
SMO4	20.63	12.27	10.10	Concentric Cylindrical Structure	1375521.43	690004.82
SMO5	20.55	13.85	13.75	Concentric Cylindrical Structure	1375540.04	689708.21
SMO6	20.21	16.34	16.24	Concentric Cylindrical Structure	1375600.63	689474.56
SMO7	19.26	15.67	15.57	Concentric Cylindrical Structure	1375573.29	689585.46
SMO8	17.12	8.66	8.56	Concentric Cylindrical Structure	1375503.31	690293.58



SCALE



McFarland Johnson

60 RAILROAD PLACE
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SARATOGA SPRINGS, NEW YORK 12866
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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
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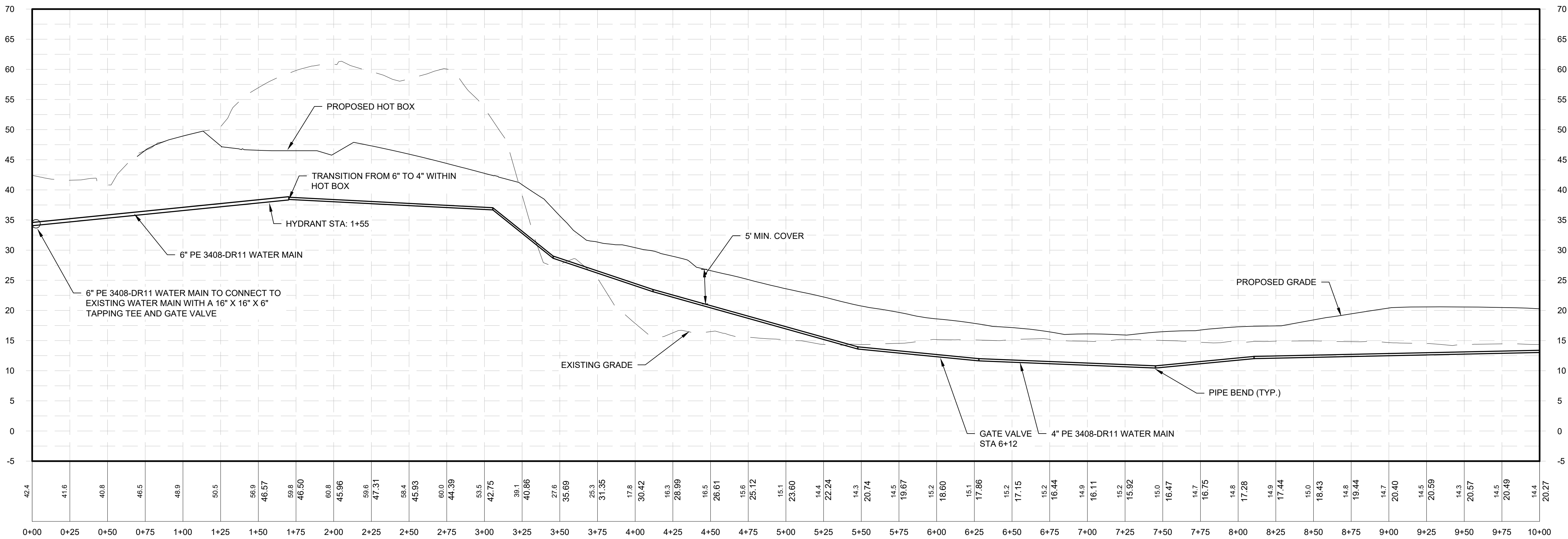
DRAWING TITLE

WATER SYSTEM
PROFILE

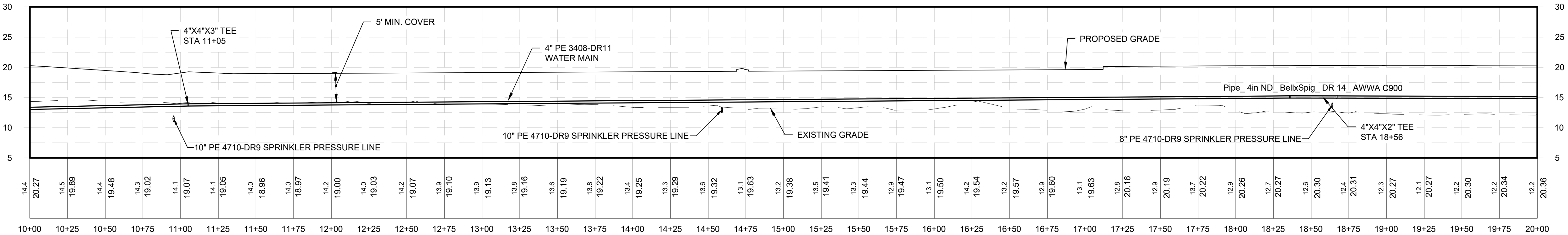
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UT-10

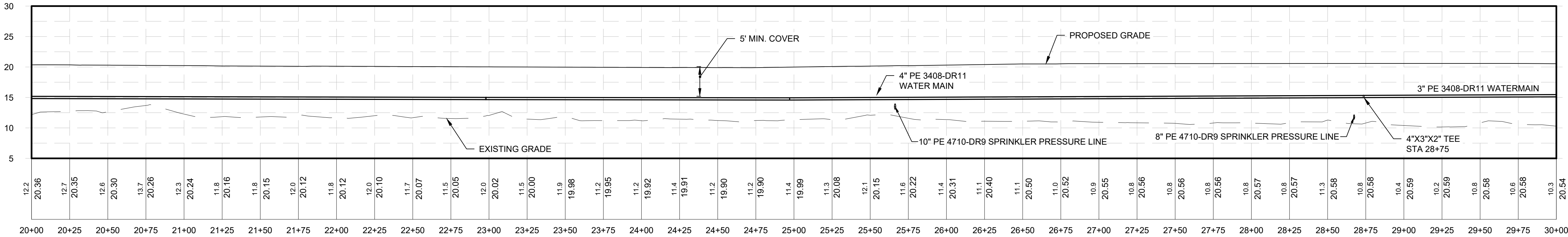
46 OF 69



WATER SERVICE (1 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



WATER SERVICE (2 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



WATER SERVICE (3 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

N:\18641\05 ALBANY PORT EXPANSION\DRAWINGS\18641\18641-UT-10.DWG



McFarland Johnson
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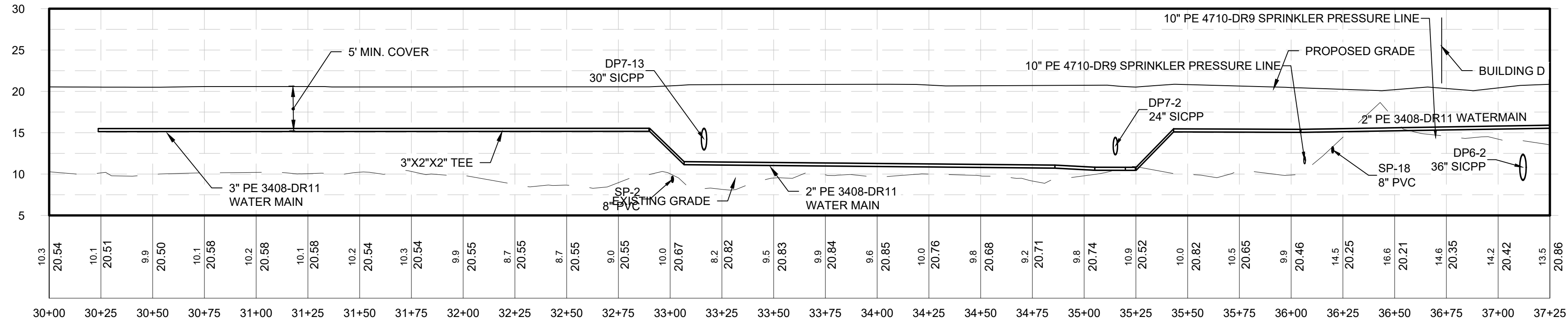
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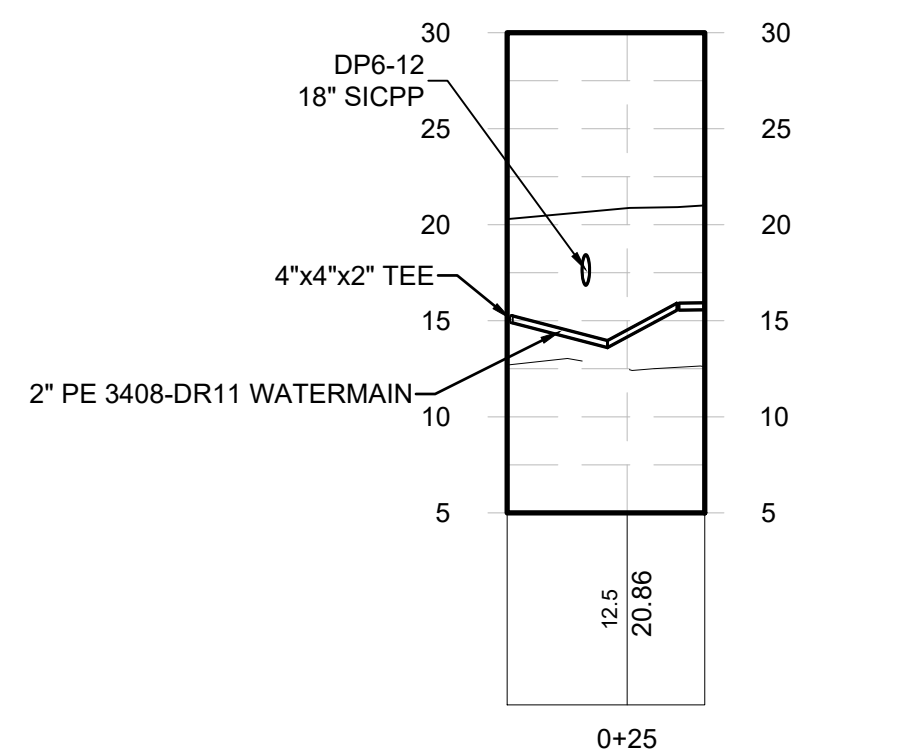
**WATER SYSTEM
PROFILE**

DRAWING NUMBER

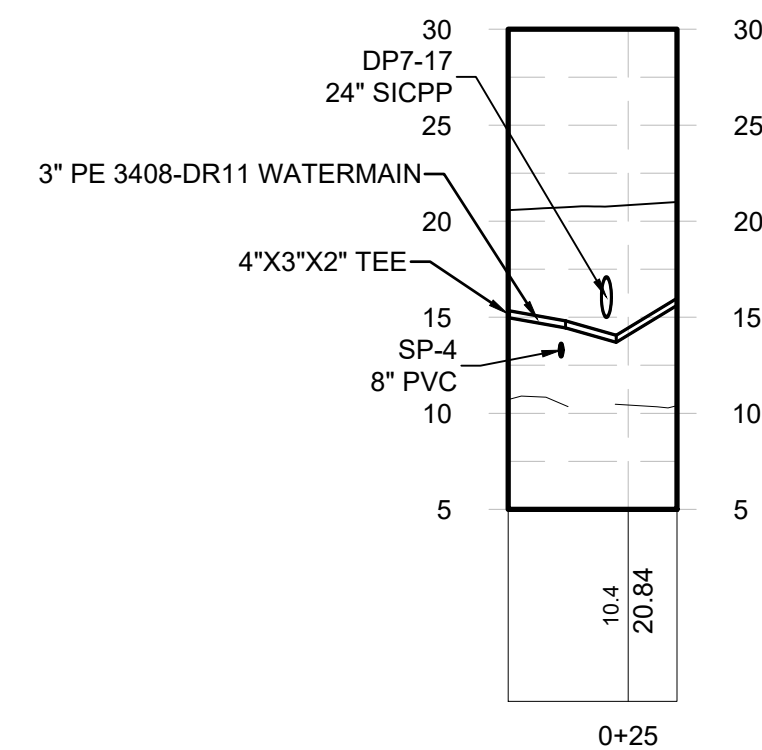
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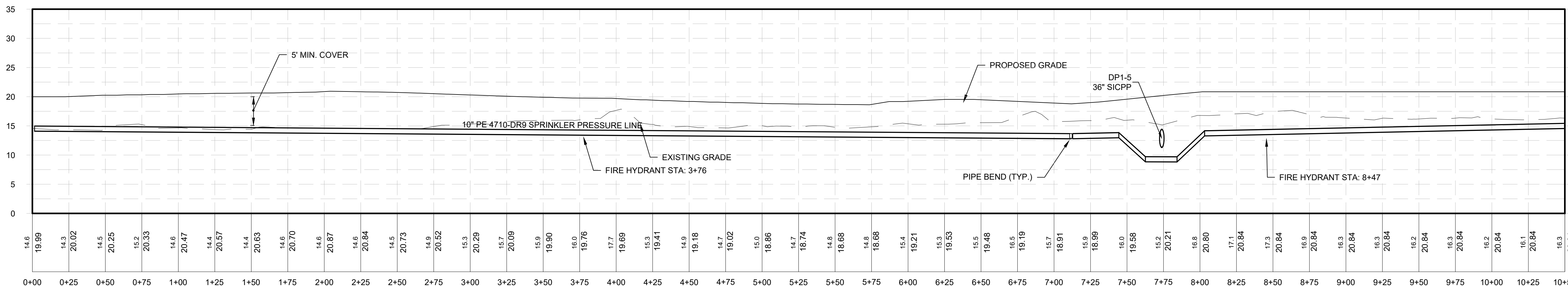
WATER SERVICE (4 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



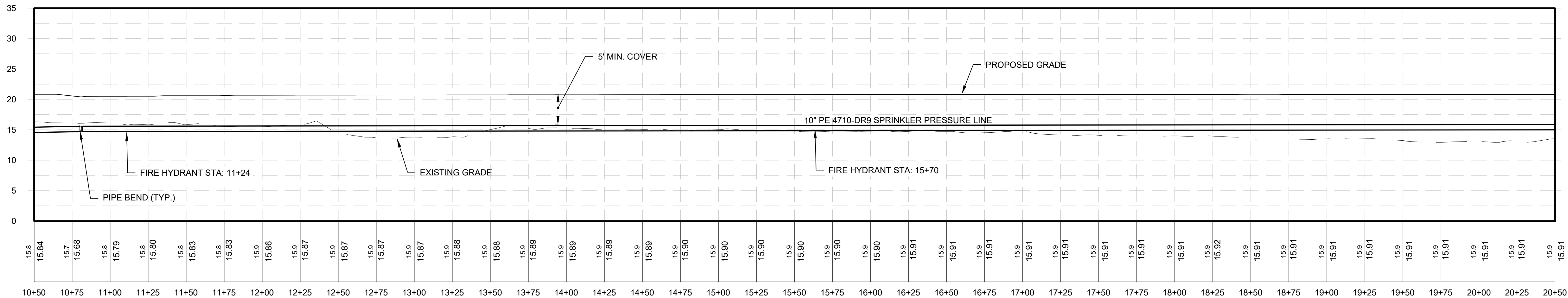
Bldg B service 1
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Vertical Scale: 1" = 10'



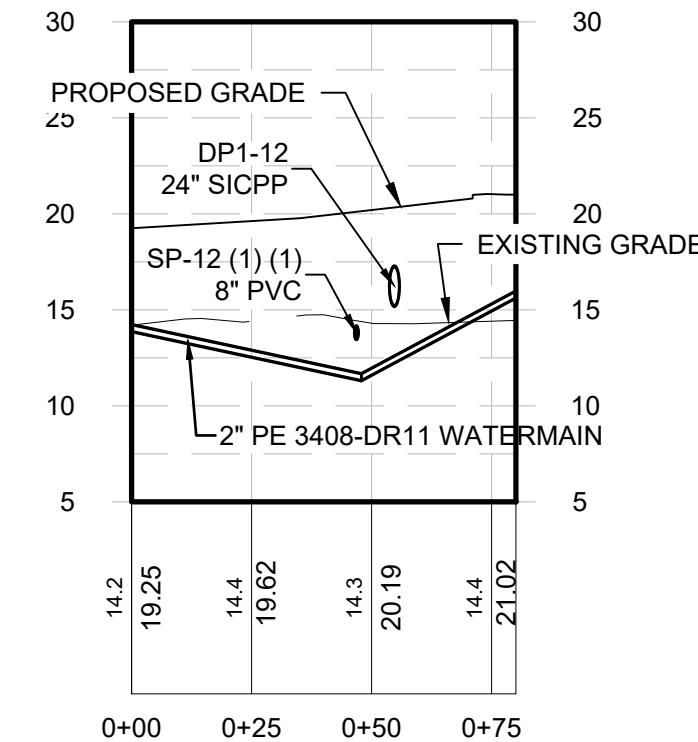
BUILDING C SERVICE
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



BUILDING A FIRE LOOP (1 OF 3)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



BUILDING A FIRE LOOP (2 OF 3)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



BLDG A SERVICE 1
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



PROJECT MILESTONE
FINAL DESIGN PLANS

CLIENT: ALBANY PORT DISTRICT COMMISSION

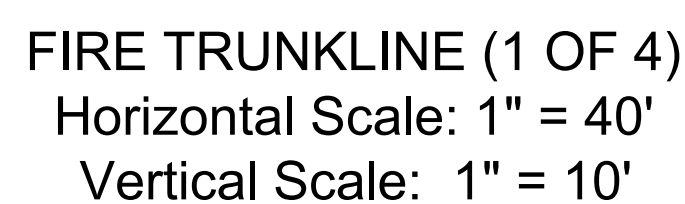
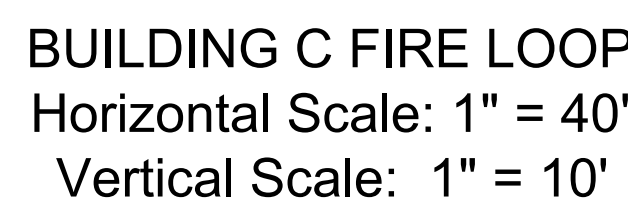
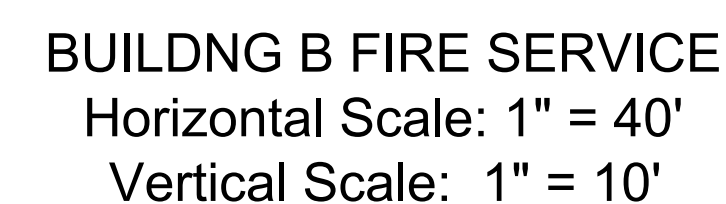
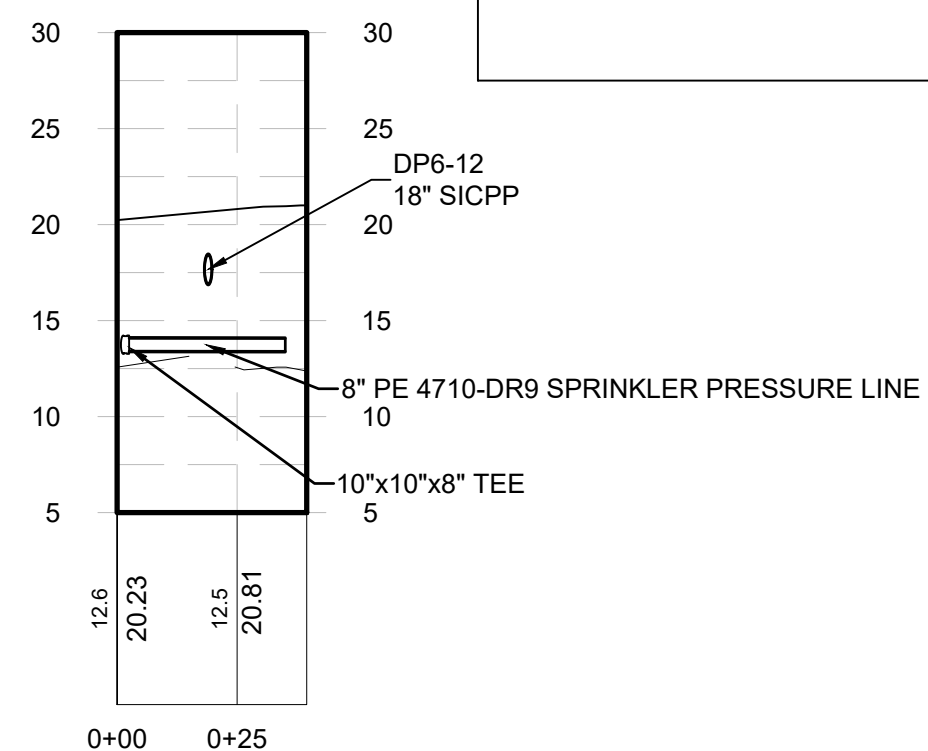
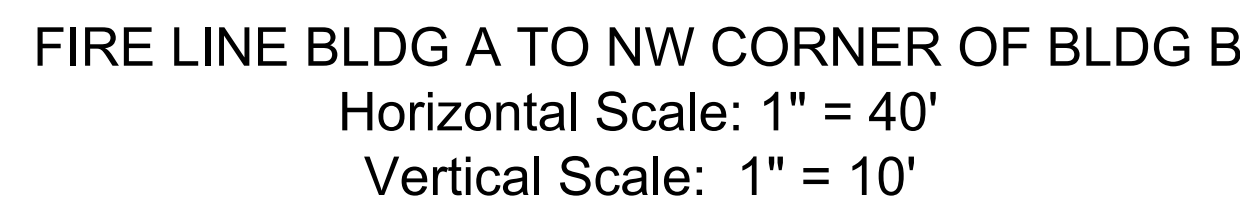
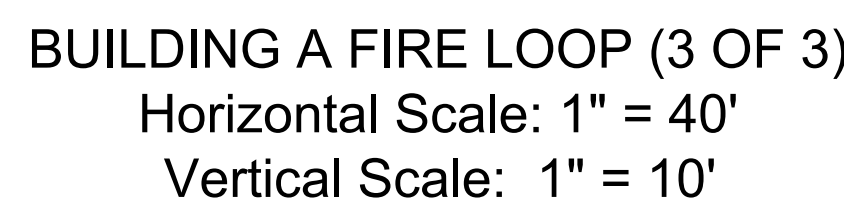
ALBANY, NEW YORK

PROJECT: PORT OF ALBANY EXPANSION SITE

DRAWING TITLE

WATER SYSTEM
PROFILE

48 OF 69





McFarland Johnson

60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



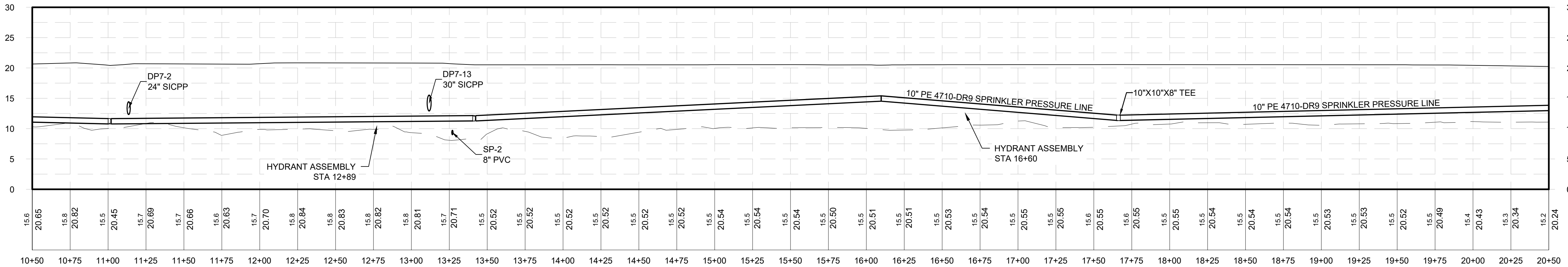
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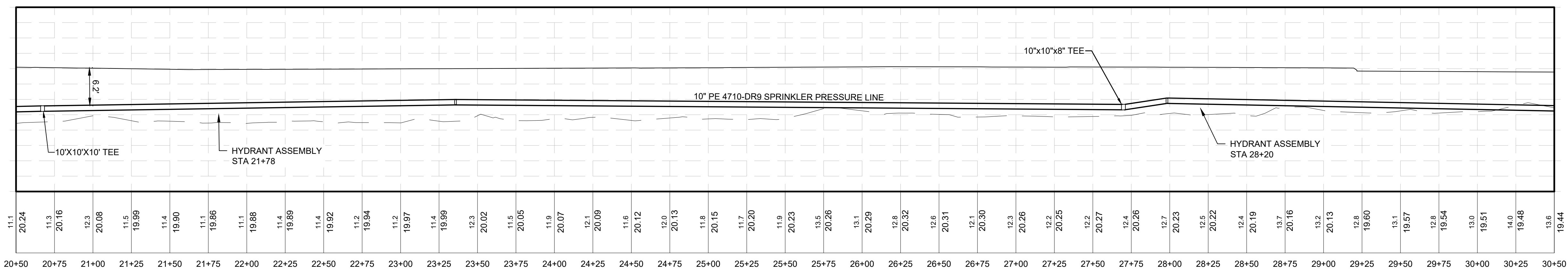
WATER SYSTEM
PROFILE

DRAWING NUMBER

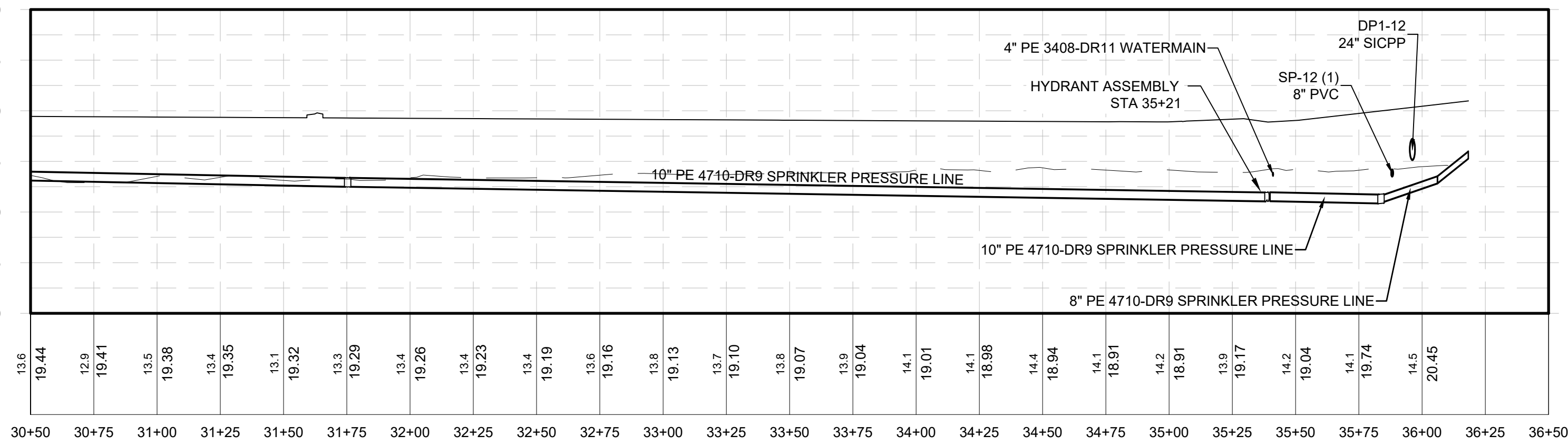
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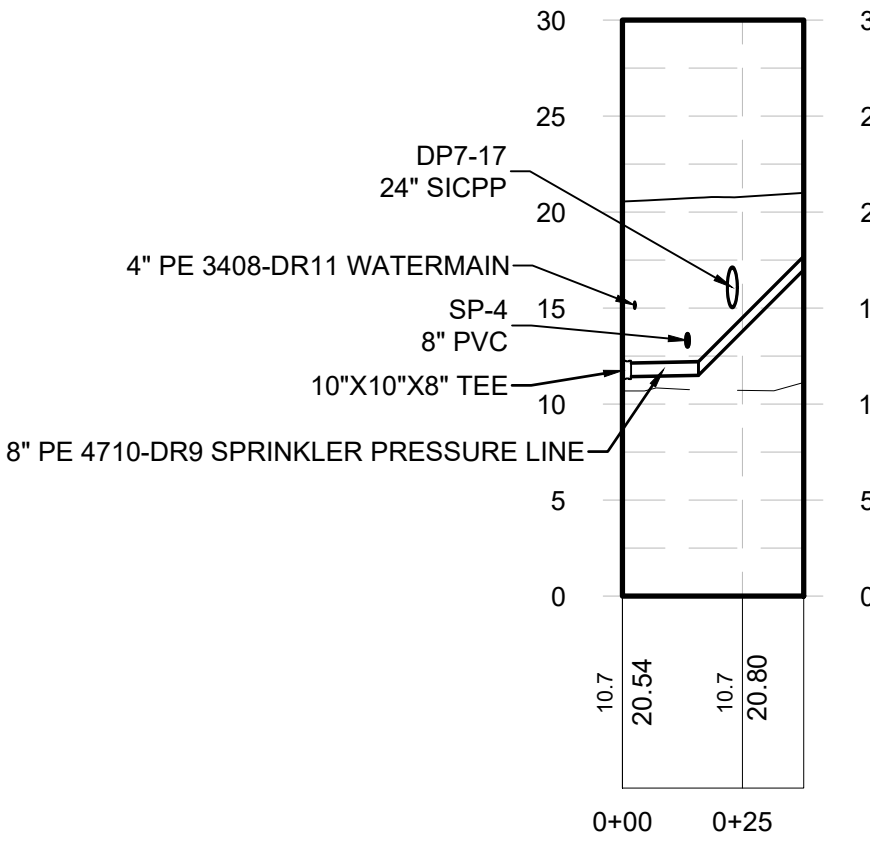
FIRE TRUNKLINE (2 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'



FIRE TRUNKLINE (3 OF 4)
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

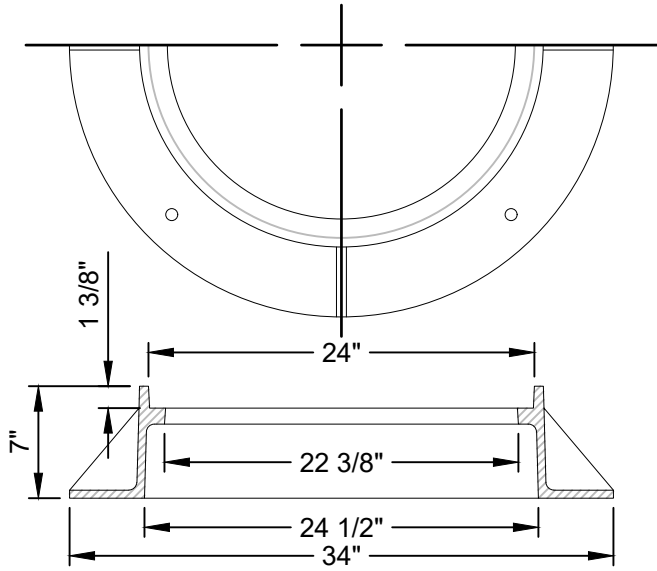


FIRE TRUNKLINE (4 OF 4)
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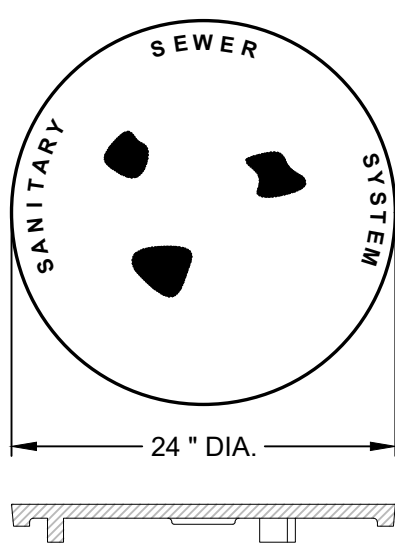


BUILDING C FIRE SERVICE
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 10'

PLANNING BOARD HTE# 21-00100006

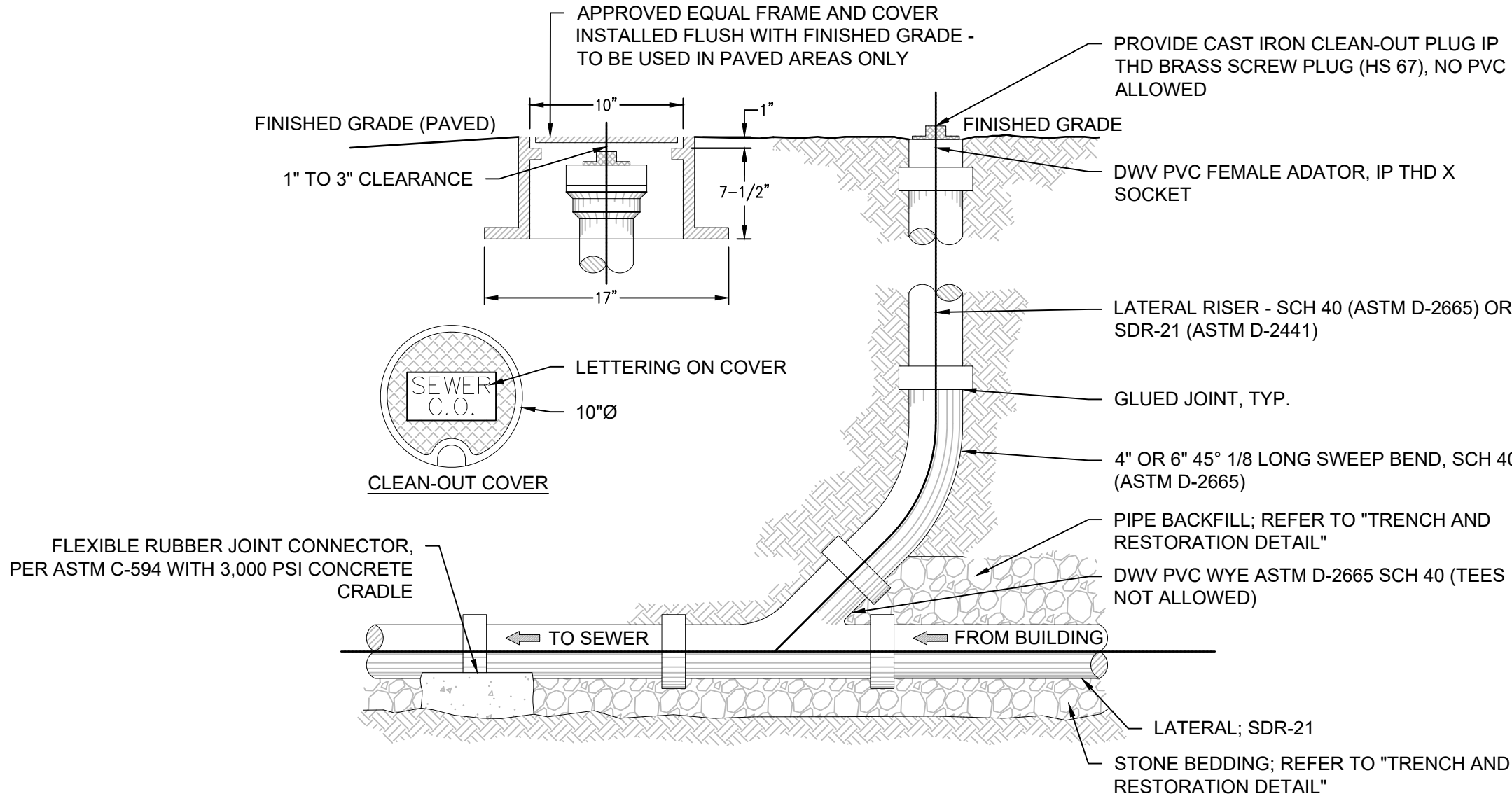


FRAME SECTION



COVER SECTION

- NOTES:
1. MATERIAL SHALL BE GRAY CAST IRON CONFORMING TO A.S.T.M. A48 (LATEST REVISION) CLASS 30B.
 2. UNITS DESIGNED HEAVY DUTY FOR A.A.S.H.T.O. HS20-44 WHEEL LOADS.
 3. EACH FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL BEARING SURFACES.



- NOTES:
1. IT IS RECOMMENDED THAT ALL SOLVENT WELD JOINTS BE MADE AS FOLLOWS:
 - CLEAN DRY HUBS AND SPOTS
 - PRIMER APPLIED TO PARTS BEING CONNECTED
 - PVC SOLVENT WELD CEMENT APPLIED DIRECTLY OVER PRIMER
 - PVC TYPE I IS COMPATIBLE FOR SOLVENT WELDING TO SDR-21 OR ANY OTHER PVC TYPE I PIPE MADE TO "STEEL PIPE" OUTSIDE DIMENSIONS
 2. FILL SHALL BE PLACED IN 6" LIFTS AND TAMPED AFTER EACH LIFT.
 3. AVAILABLE LATERAL/CLEANOUT CONFIGURATIONS:
 - 4" x 4" x 4"
 - 6" x 6" x 6"
 - 6" x 6" X 4"

PLANNING BOARD HTE# 21-00100006

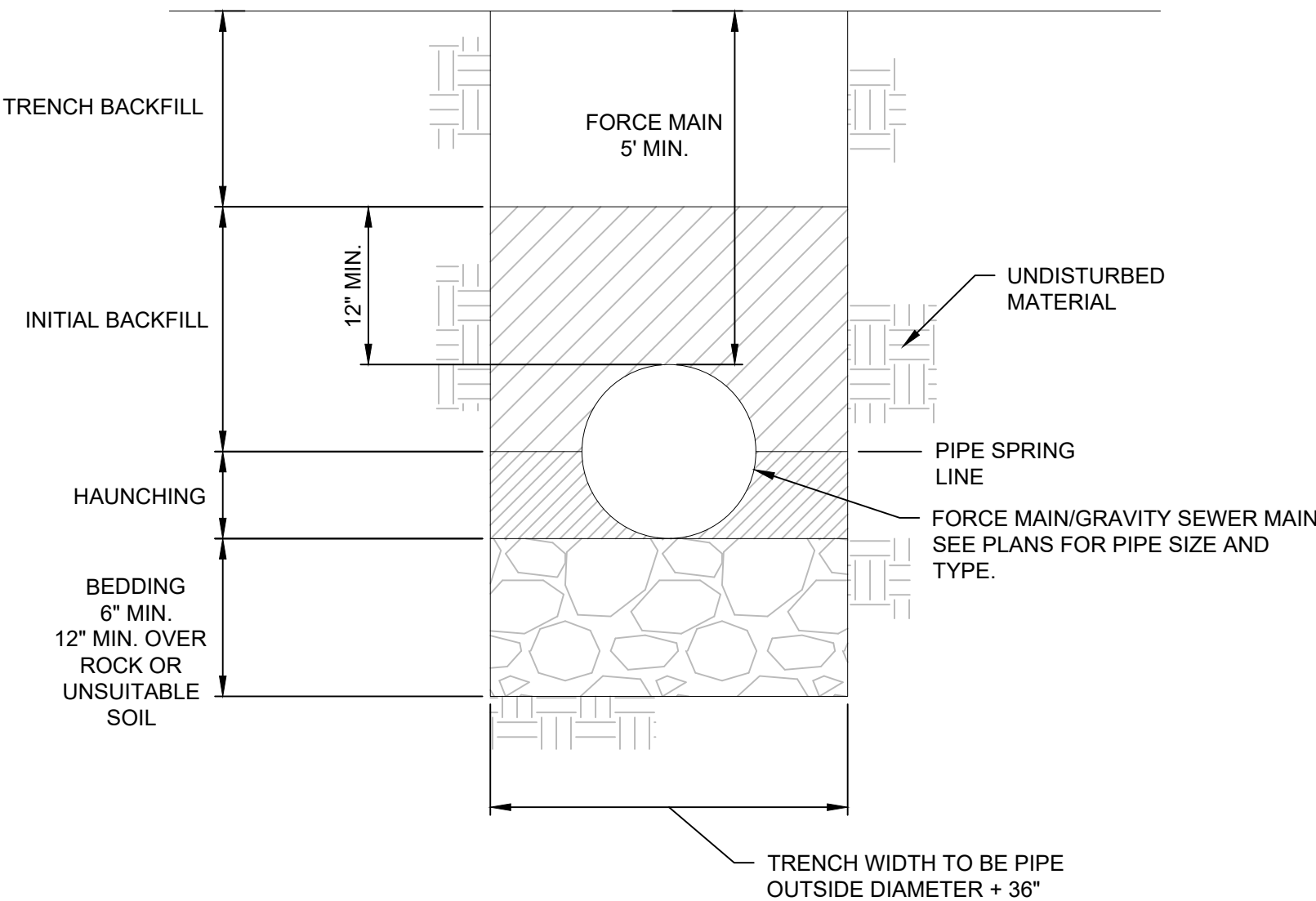
SANITARY SEWER MANHOLE FRAME & COVER

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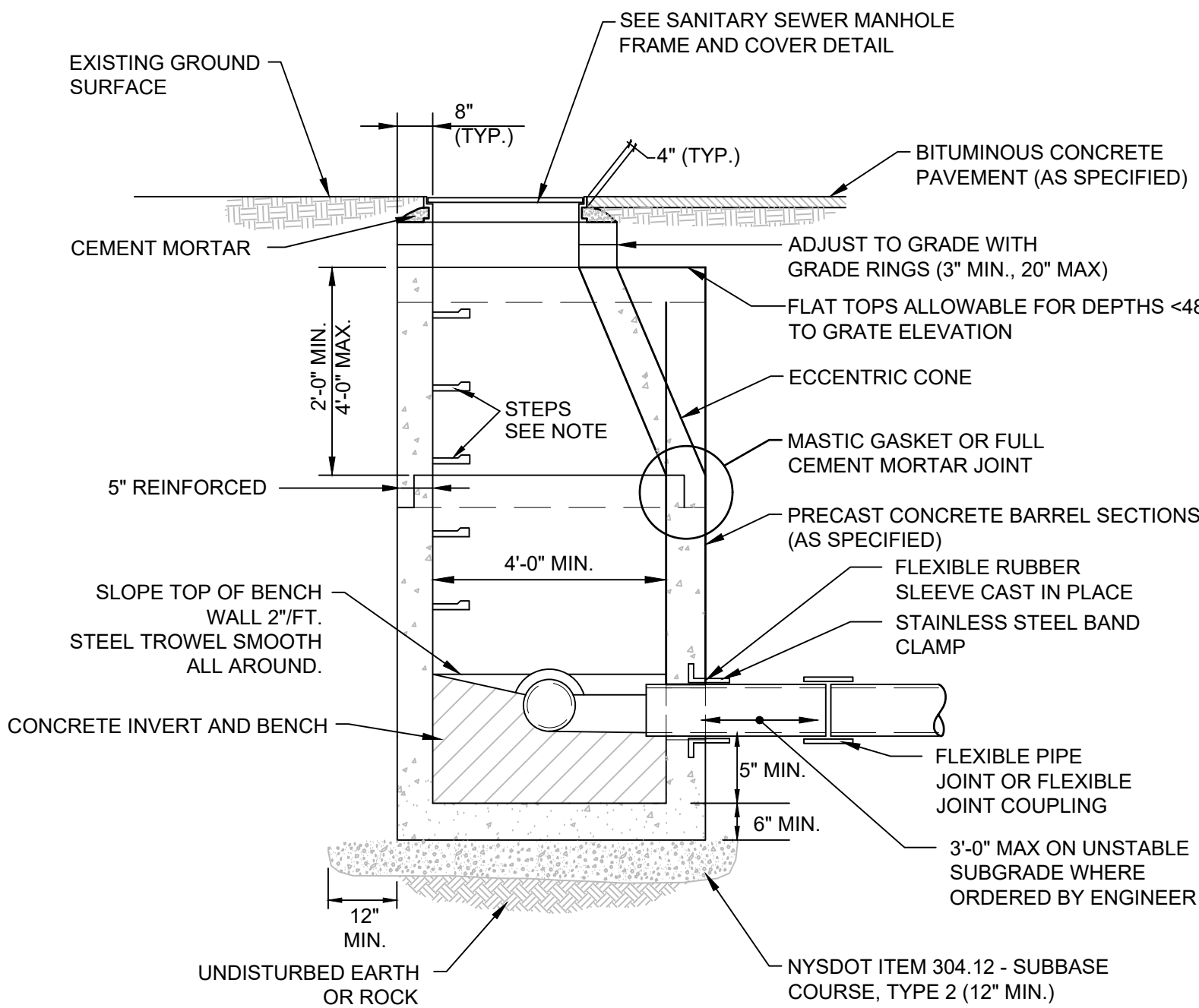
SANITARY SEWER LATERAL CLEAN-OUT

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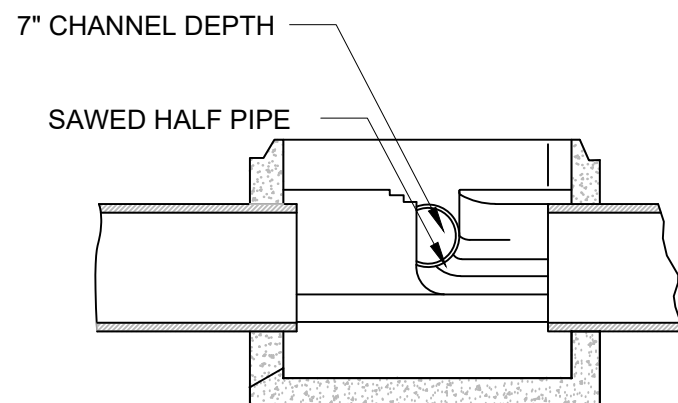
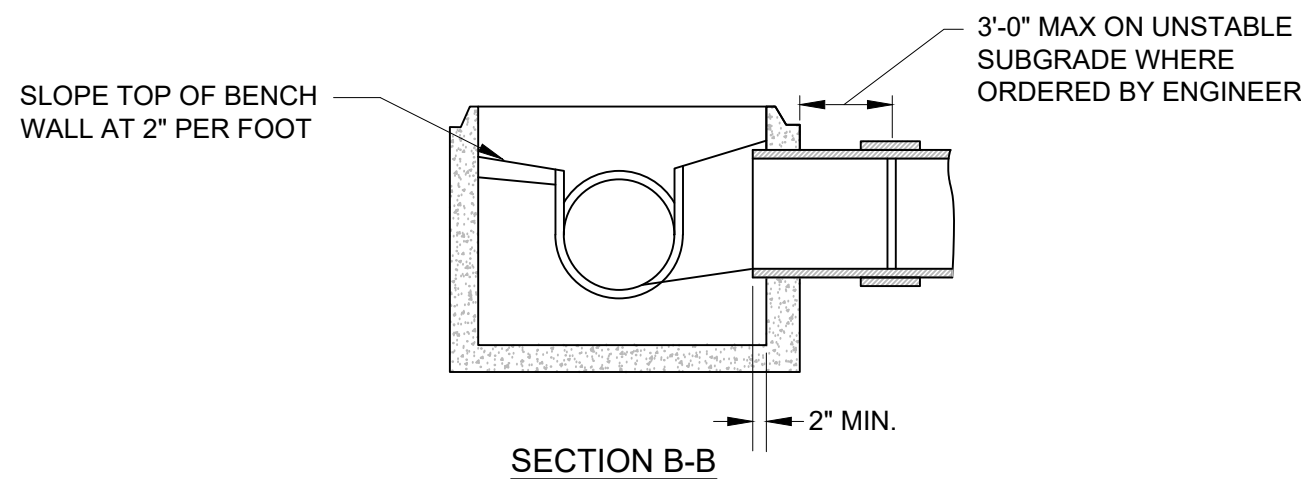
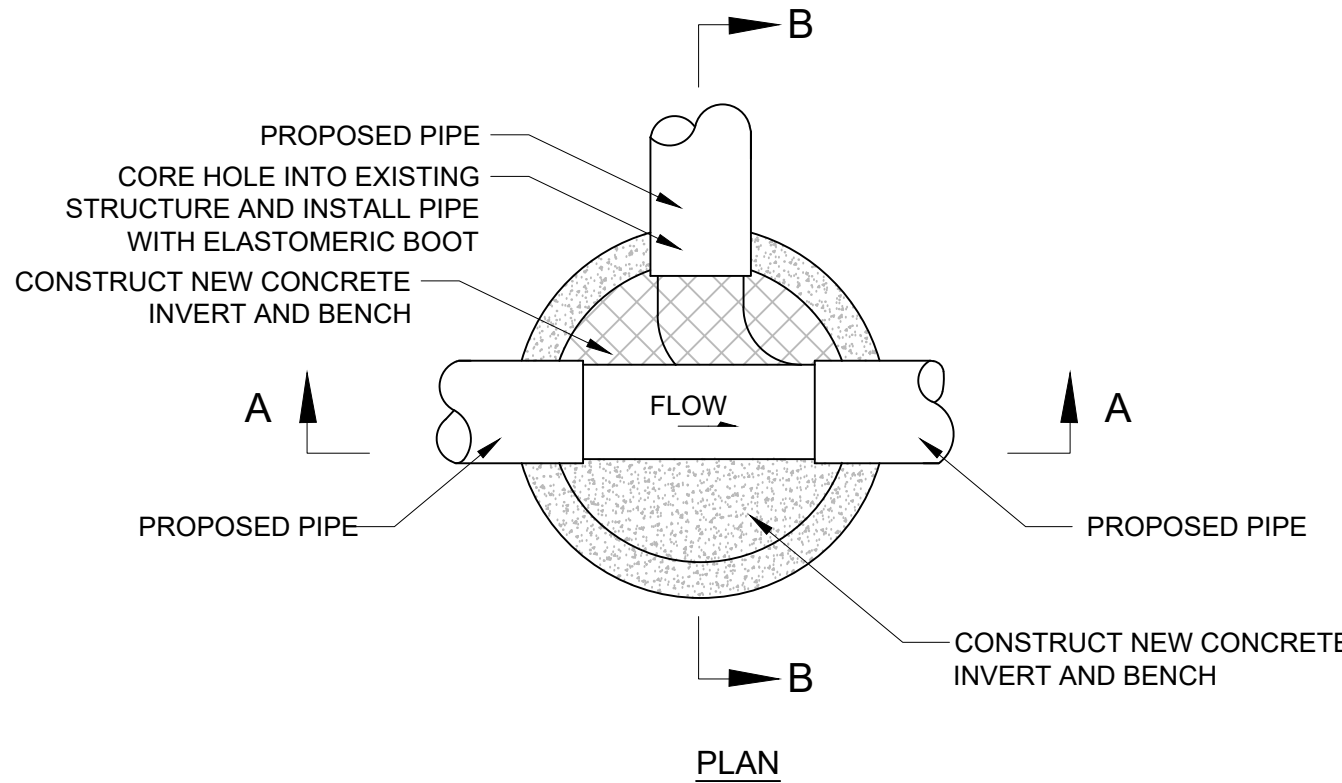
PIPE MATERIALS
SEE UTILITY PLANS FOR
PIPE SIZE AND MATERIAL



- NOTES:
1. ALL TRENCHING TO BE IN ACCORDANCE WITH OSHA STANDARDS AND NYS DEPT. OF LABOR INDUSTRIAL CODE 23
 2. BEDDING, HAUNCHING AND INITIAL BACKFILL SHALL CONSIST OF #1 AND #2 CRUSHED STONE BEDDING PER NYSDOT SPECIFICATION 703-02
 3. TRENCH BACKFILL - BACKFILL UNDER ROADS, DRIVES, SIDEWALKS, CURBS AND UTILITIES SHALL BE SELECT GRANULAR FILL PER NYSDOT SPECIFICATION 203-2.06, PLACED AND COMPACTED IN LIFTS NOT TO EXCEED 6". BACKFILL IN OTHER AREAS SHALL BE A SUITABLE EXCAVATED MATERIAL (NO STONES LARGER THAN 6"), PLACED AND COMPACTED IN LIFTS NO GREATER THAN 6" TO SAFETY COVER.



- NOTES:
1. ALUMINUM OR PLASTIC MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
 2. PRECAST REINFORCED CONCRETE MANHOLE SHALL CONFORM TO ASTM C478.
 3. CONCRETE SHALL BE 4000 PSI AT 28 DAYS, 5% AIR ENTRAINED, AND MEET AASHTO H-20 LOADING AS MANUFACTURED BY FORT MILLER CO. OR APPROVED EQUAL.
 4. REINFORCING STEEL SHALL CONFORM TO ASTM A615 - A497.



- NOTE:
1. CARE SHALL BE TAKEN TO ENSURE THAT THE INVERTS ARE A SMOOTH CONTINUATION.
 2. INVERT AND SHELF SHALL BE CAST-IN-PLACE CONCRETE 3000 PSI MIN. AND AIR ENTRAINED.

GRAVITY SEWER MAIN AND FORCE MAIN TRENCH

N.T.S.

PRECAST CONCRETE GRAVITY SEWER MANHOLE

N.T.S.

SEWER BOTTOM WITH CHANNEL

N.T.S.



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ALBANY, NEW YORK

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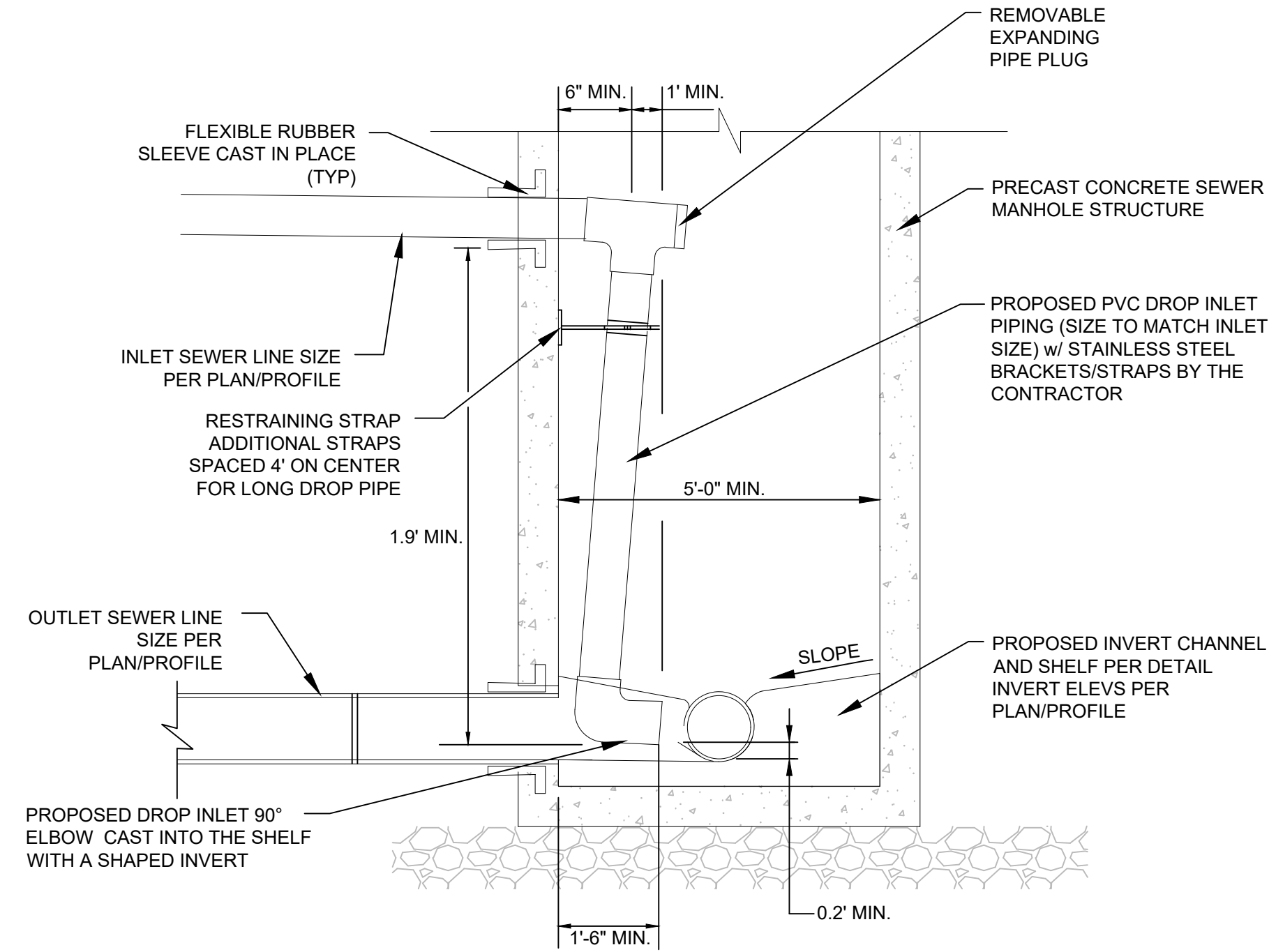
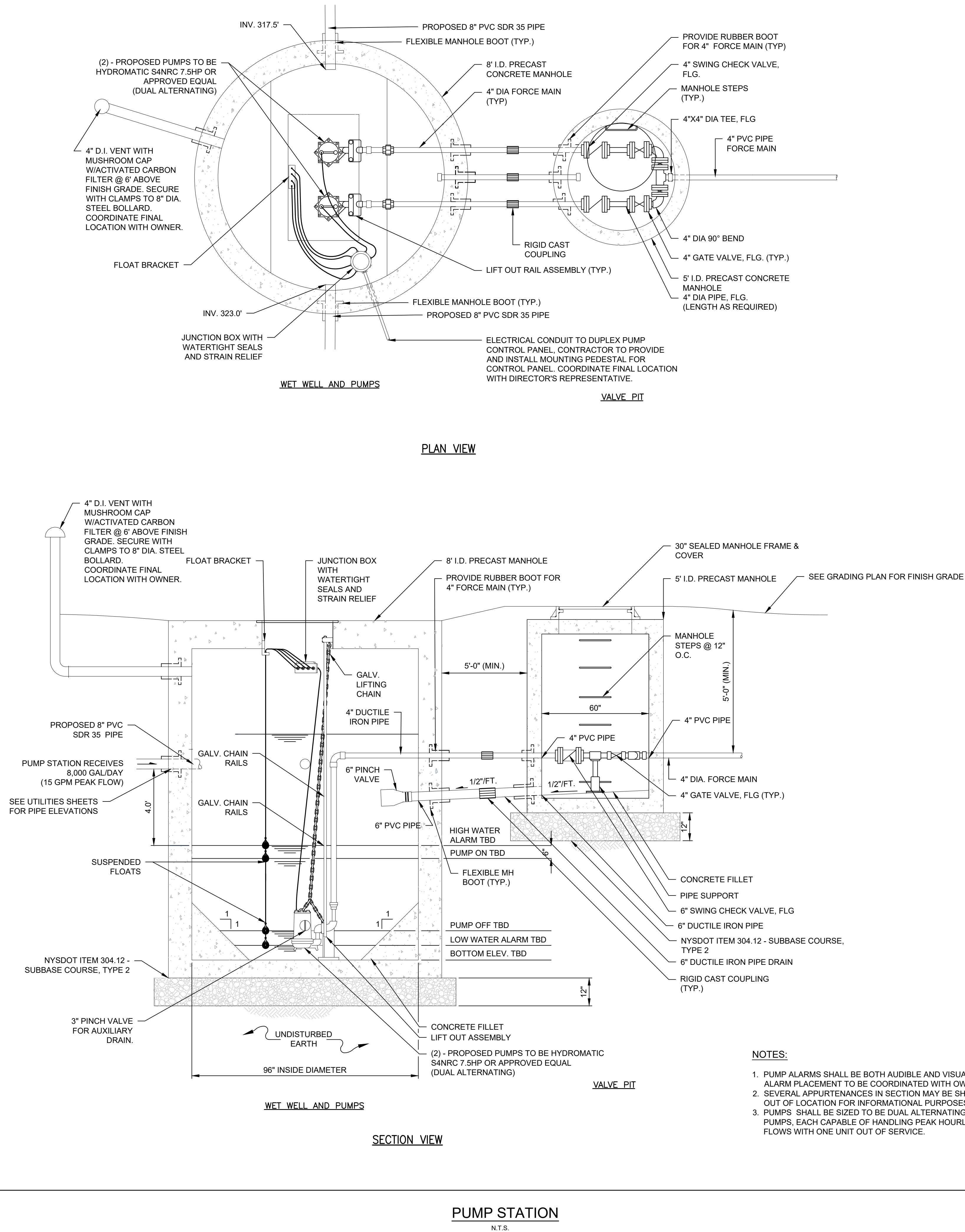
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SANITARY SYSTEM
DETAILS

DRAWING NUMBER

UT-14

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**SANITARY SYSTEM
DETAILS**

DRAWING NUMBER

UT-15






















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PROCESS DIAGRAM NOTES

- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUT(S) OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DESIGN INFLUENT FLOW AND LOAD TO THE EFFLUENT WATER QUALITY DENOTED IN THE EFFLUENT WASTELOAD SUMMARY.
- THE PROCESS SCHEMATIC SHOWS THE GENERAL FLOW LAYOUT. SPECIFIC REACTOR COMPONENTS, SIZES, AND CONFIGURATIONS MAY DIFFER. REFER TO ARRANGEMENT DRAWINGS FOR DETAILS.
- PRELIMINARY BASIN SIZING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. FINAL DESIGN VALUES SHALL BE ESTABLISHED BY THE ENGINEER OF RECORD.
- SEE THE PROJECT SPECIFIC QUOTE FOR MORE INFORMATION REGARDING SCOPE OF SUPPLY AND CORRESPONDING TERMS AND CONDITIONS.

TANK SIZES						
TANK	QTY	WIDTH (FT)	LENGTH (FT)	HEIGHT (FT)	SWD (FT)	VOLUME (GAL)
AERATION	1	10	19	11.17	9.67	13,700
CLARIFIER	1	10	5	11.17	9.67	2,400 (APPROX.)
SOLIDS HOLDING	1	10	8	11.17	9.67	5,800
LIFT STATION	1	4 (DIA.)	-	TBD	-	400 (APPROX. OPERATIONAL)
ALL DIMENSIONS ARE INSIDE OF TANK UNLESS NOTED OTHERWISE.						

MOTOR LOADS						
DEVICE	QTY	CONCURRENTLY OPERATING	POWER (HP)	VOLTAGE (V)	STARTING CURRENT (A)	FULL LOAD CURRENT (A)
LIFT STATION PUMP	2	1	0.5	230 V-3 PH	18.2	5.3
MAIN AIR BLOWER	2	1	5	230 V-3 PH	92	13
UV SYSTEM	2	2	TBD	230 V-1 PH	TBD	TBD
ULTRASONIC FLOW METER	1	1	< 0.1	230 V-1 PH	TBD	TBD
SOLIDS HOLDING BLOWER	1	1	1.5	230 V-3 PH	34.2	4.5

	DIAPHRAGM VALVE
	GLOBE/NEEDLE VALVE
	BALL VALVE
	CHARACTERIZED BALL VALVE
	BALL CHECK VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	GATE VALVE
	3-WAY VALVE
	CHECK VALVE
	BLOWER
	MECHANICAL PUMP
	AIR LIFT PUMP
	MIXER
	FLOW METER
	CHEMICAL DOSING PUMP
	FILTER
	ULTRAVIOLET DISINFECTION UNIT
	BAR SCREEN
	MECHANICAL BAR SCREEN
	TABLET FEEDER

WASTELOAD SUMMARY:

INFLUENT WASTELOAD AS PROVIDED BY ENGINEER OF RECORD

280 mg/L (26 LB/D) BOD₅
300 mg/L (28 LB/D) TSS
7.0-7.1 pH (ASSUMED)
68 F (20 C) WATER TEMPERATURE (ASSUMED)

EFFLUENT TARGETS

30 mg/L BOD₅ 30-D AVERAGE
30 mg/L TSS 30-D AVERAGE
200 N/100 mL FCB 30-D GEO. MEAN

ORGANIC LOADING

14.3 LB BOD/D/KCF
DELTA MODEL BASIS A-13.0

AERATION SYSTEM DESIGN

AOR: 59 LB O₂/D
SOTR: 114 LB O₂/D

PROCESS AIR DEMAND: 76 SCFM
RAS/WAS AIRLIFT PUMP AIR DEMAND: 20 SCFM
SCUM AIRLIFT PUMP AIR DEMAND: 16 SCFM
TOTAL MAIN AIR BLOWER DEMAND: 112 SCFM
SITE ELEVATION: 50 FT AMSL (ASSUMED)
MAXIMUM AIR TEMPERATURE: 115 F (ASSUMED)
PROCESS AIR INLET FLOW: 133 ICFM
BLOWER AIRFLOW: 1 DUTY/1 STANDBY, 133 ICFM @ 4.7 PSIG
SELECTED BLOWER: GARDNER DENVER MODEL 3M @ 2,760 RPM
SELECTED MOTOR: 5 HP

SOLIDS HOLDING MIXING AIR DEMAND:
30 SCFM / 1,000 CF x 0.77 KCF = 23 SCFM :: 28 ICFM @ 4.7 PSIG
SELECTED BLOWER: GARDNER DENVER MODEL 2M @ 2,760 RPM
SELECTED MOTOR: 1.5 HP

NOTE: NYS DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS RECOMMENDS A PRIMARY TREATMENT/SETTLING TANK IF ONLY ONE ACTIVATED SLUDGE TANK IS USED. THIS RECOMMENDATION IS NOT INCLUDED IN THIS PROPOSAL, BUT CAN BE ADDED IF PREFERRED BY THE ENGINEER OF RECORD.

SIMPLEX SOLIDS HOLDING MIXING BLOWER

HAUL SOLIDS

INFLUENT FROM COLLECTION SYSTEM

INFLUENT LIFT STATION

DUPLEX BLOWER SYSTEM w/CONTROL PANEL

UV DISINFECTION ARRAY

EFFLUENT FLOW MEASUREMENT VAULT

EFFLUENT TO SURFACE DISCHARGE OUTFALL

SOLIDS HOLDING

AERATION

CLARIFICATION

DISINFECTION

SANITARY PACKAGE TREATMENT PLANT - PROCESS DIAGRAM

N.T.S.

EQUIPMENT LIST			
DESCRIPTION	QTY.	MAKE	MODEL
LIFT STATION PUMP	2	CHAMPION	CPSE532, 0.5HP
MAIN AIR BLOWER	2	GARDNER DENVER	SUTORBILT 3M W/ TOSHIBA 5HP TEFC GENERAL DUTY MOTOR
UV SYSTEM	2	AQUA AZUL	AZ-400
ULTRASONIC FLOW METER	1	PULSAR	ULTRA 4 W/ DB MACH 3 ULTRASONIC SENSOR
SOLIDS MIXING BLOWER	1	GARDNER DENVER	SUTORBILT 2M W/ TOSHIBA 1.5HP TEFC GENERAL DUTY MOTOR

PLANNING BOARD HTE# 21-00100006

FLOW SUMMARY			
Flow Parameter	GPD	GPH	GPM
AVERAGE DAILY FLOW (ADF)	11,200	470	7.8
PEAK DAILY FLOW (PDF)	-	-	-
PEAK HOURLY FLOW (PHF)	-	-	-
0.5 x ADF	5,600	230	3.9
1.5 x ADF	16,800	700	12



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ALBANY, NEW YORK

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SANITARY SYSTEM DETAILS

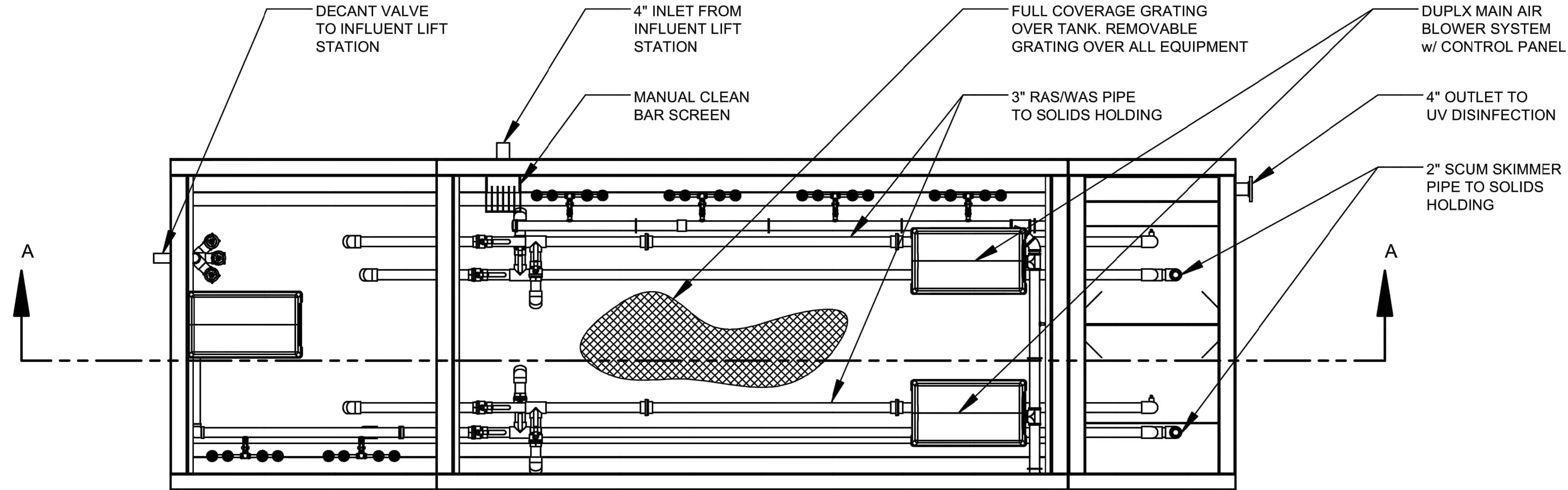
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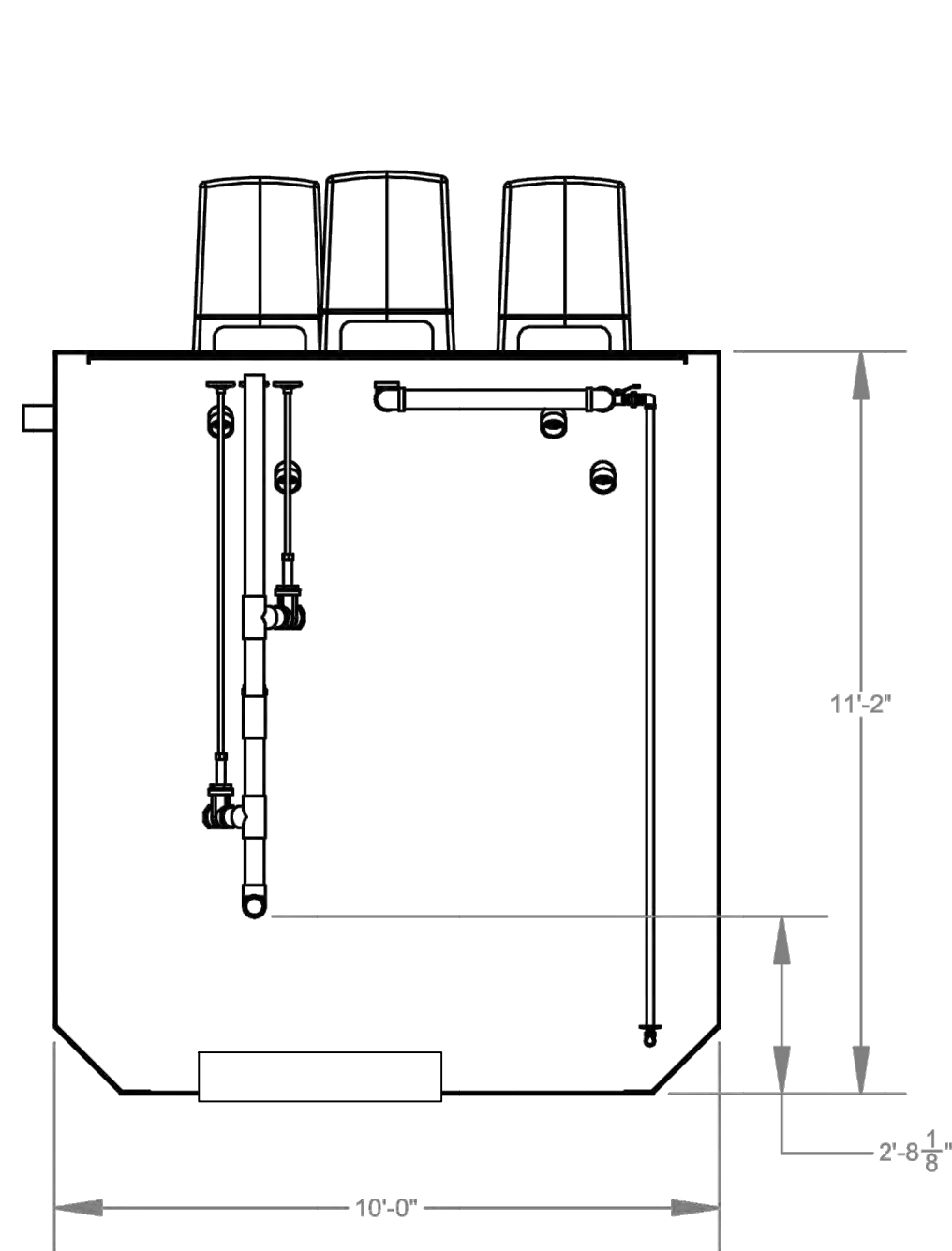
NUMBER OF ALBANY PORT EXPANSION DRAWINGS SHEET FLEET MAIL OUT LETTERS.DWG

GENERAL ARRANGEMENT NOTES

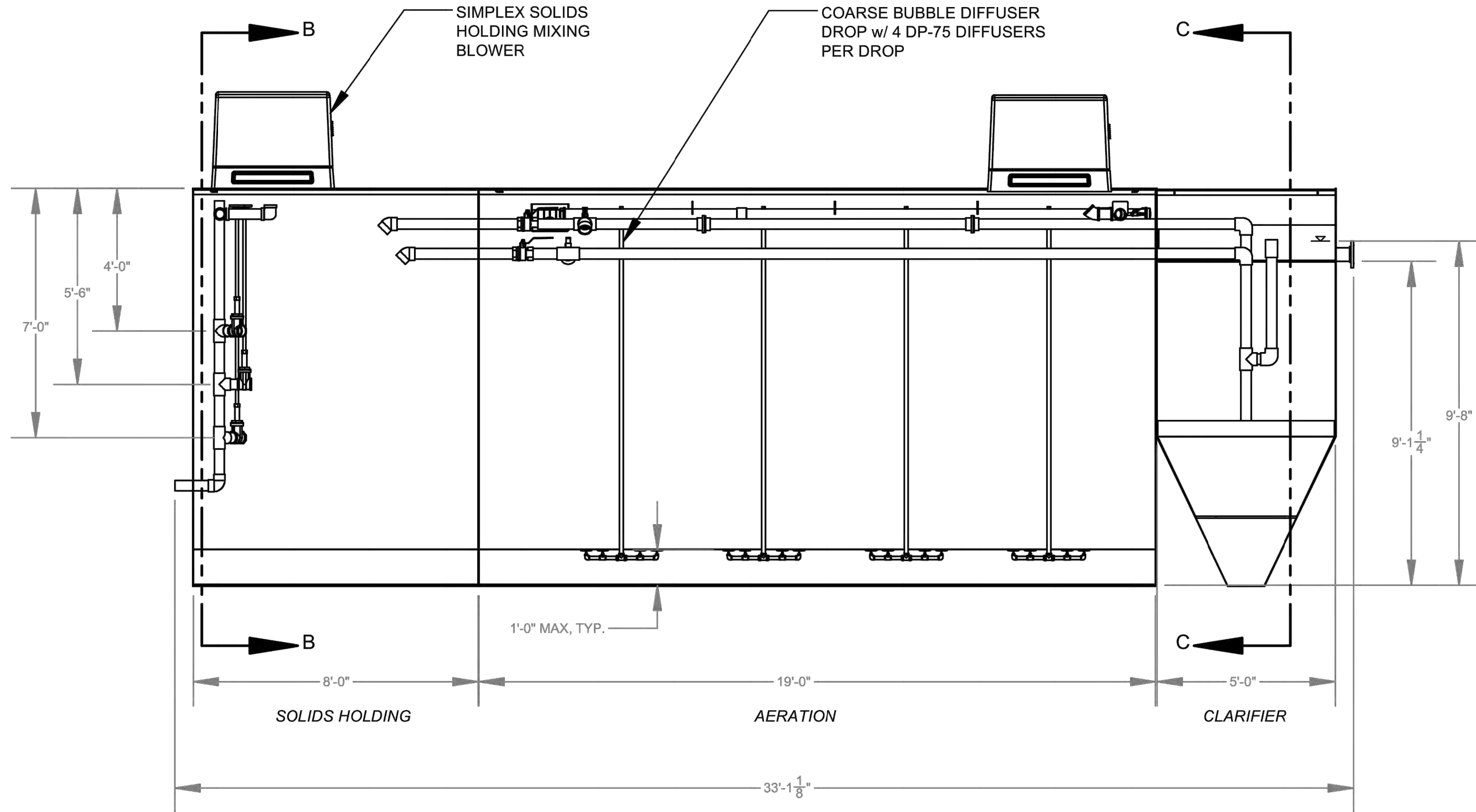
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2. THE EQUIPMENT ARRANGEMENT/LAYOUT IS SCHEMATIC IN NATURE AND SOME OBJECTS MAY NOT BE DRAWN TO SCALE. REFER TO THE ENGINEER-OF-RECORD PROJECT DOCUMENTS FOR FINAL SITE AND/OR EQUIPMENT ARRANGEMENT.
3. ALL REACTORS SHALL BE CONSTRUCTED OF A36 CARBON STEEL, MINIMUM 1/4" THICKNESS, PER ENGINEER-OF-RECORD REQUIREMENTS.
4. BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS SHALL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAIL.
5. CONTRACTOR TO PROVIDE AND INSTALL ALL FIELD PIPING AND SECURE ALL EQUIPMENT CONNECTIONS AS SHOWN IN THE ENGINEER OF RECORD'S PROJECT DOCUMENTS.
6. REACTORS AND INTERNAL DEVICES SHALL BE INSTALLED PLUMB AND LEVEL.
7. SEE THE PROJECT SPECIFIC QUOTE FOR MORE INFORMATION REGARDING SCOPE OF SUPPLY AND CORRESPONDING TERMS AND CONDITIONS.



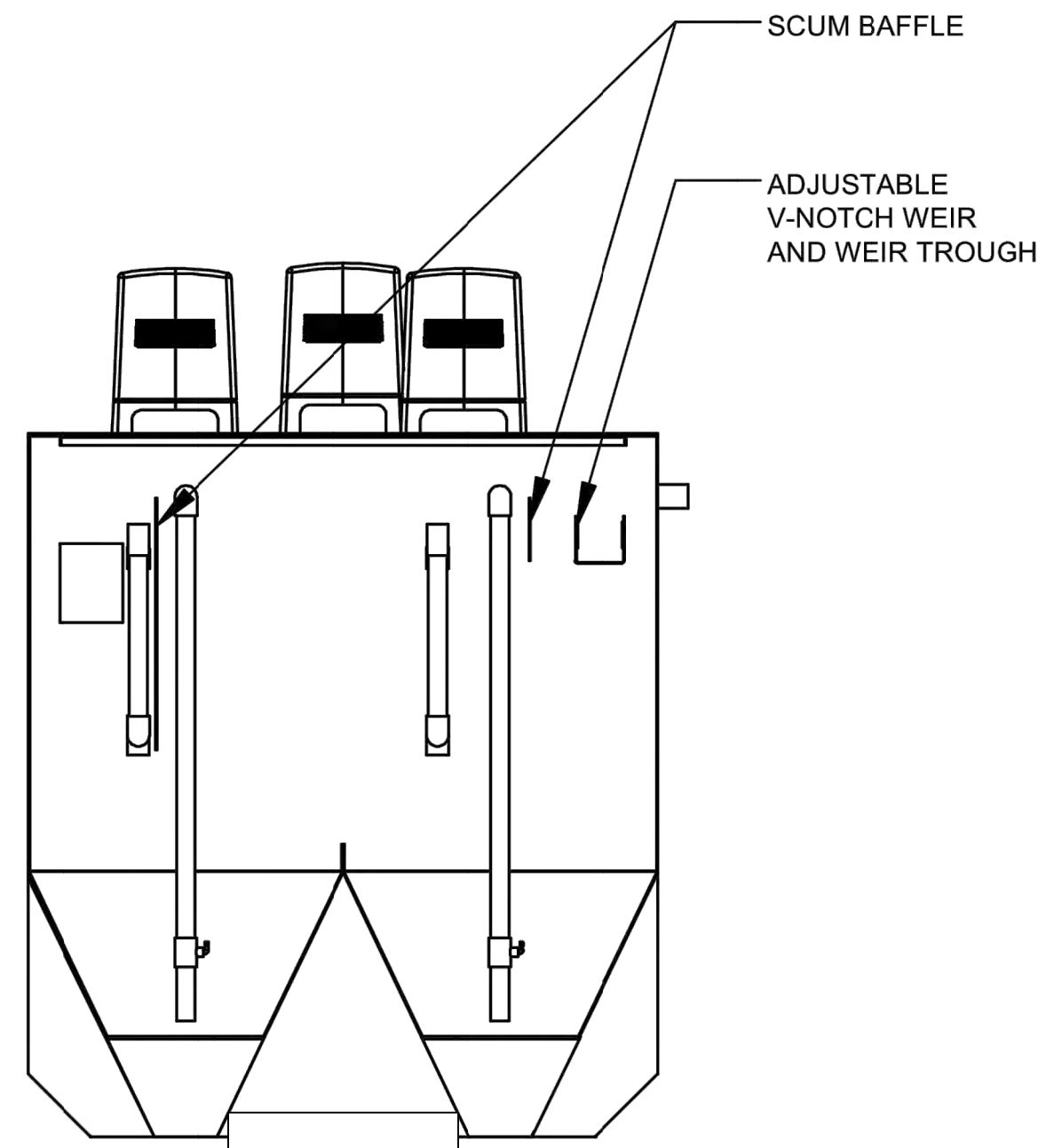
PLAN VIEW



SECTION B-B



SECTION A-A
ELEVATION VIEW



SECTION C-C

SANITARY PACKAGE TREATMENT PLANT - GENERAL ARRANGEMENT

N.T.S.



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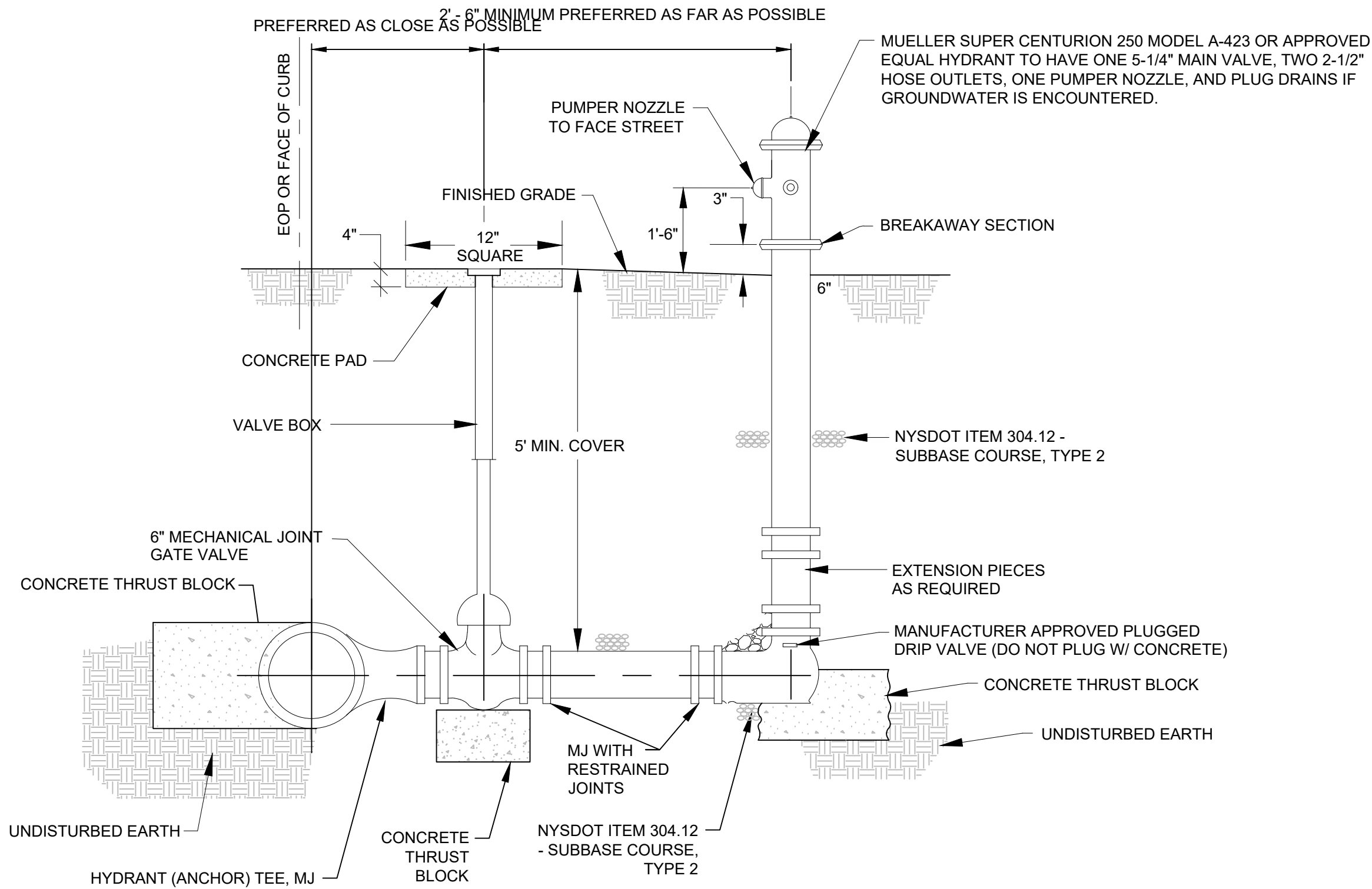
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**SANITARY SYSTEM
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DRAWING NUMBER

UT-17

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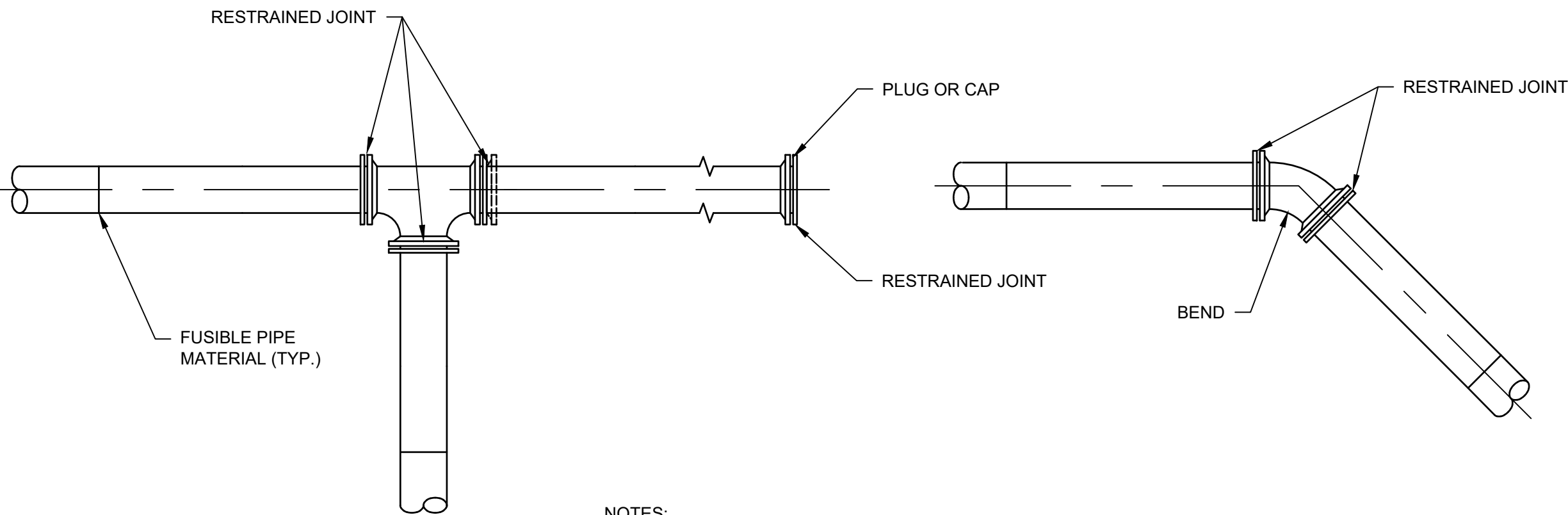


NOTES:

1. THE VALVE BOX SHALL BE INSTALLED PLUMB IN RELATION TO VALVE IN WHICH IT CONTROLS.
2. SIMILAR INSTALLATION FOR WATER AND FIRE PROTECTION MAINS.
3. VALVE COVER FOR FIRE PROTECTION MAINS SHALL READ "FIRE".
4. HYDRANT SHALL BE PAINTED RED FOR FIRE PROTECTION AND POTABLE USE AND BLACK FOR RAW WATER AND MAINTENANCE.
4. MATCH NOZZLE THREADS AND OPERATING DIRECTION TO EXISTING HYDRANTS.
5. CONTRACTOR SHALL PROVIDE CHAIN WITH I.D. TAG ON ALL NEW HYDRANTS (BLACK HYDRANTS LABELED AS NON-POTABLE). CHAIN AND TAG SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION. ALL EXISTING HYDRANTS SHALL BE REMOVED OR REPLACED AS SHOWN ON PLANS. SEE PLANS FOR NUMBERING SEQUENCE.
6. HYDRANT THRUST BLOCKS SHALL BE PROVIDED AS FOR A DEAD END AT LOCATIONS SHOWN ON THE DETAIL AND/OR AS REQUIRED BY THE OWNER. THRUST BLOCKS AT HYDRANTS SHALL BE USED TO COINCIDE WITH RESTRAINED JOINTS (NOT AS A REPLACEMENT).
7. STAINLESS STEEL, THREADED ROD JOINT RESTRAINTS SHALL BE INSTALLED BETWEEN THE TEE FITTING AND VALVE, AS WELL AS THE VALVE AND HYDRANT ASSEMBLY.
8. THE HYDRANT DRAIN HOLE SHALL BE KEPT UNOBSTRUCTED. CARE SHALL BE USED TO KEEP THRUST RESTRAINTS FROM BLOCKING DRAIN HOLE. IF THE HYDRANT DRAIN IS LOCATED WITHIN 10'-0" OF A SANITARY SEWER OR STORM DRAIN, OR IF GROUNDWATER IS FOUND WITHIN 6'-6" OF FINISHED GRADE, THE HYDRANT DRAINS SHALL BE PLUGGED.

FIRE HYDRANT ASSEMBLY

N.T.S.

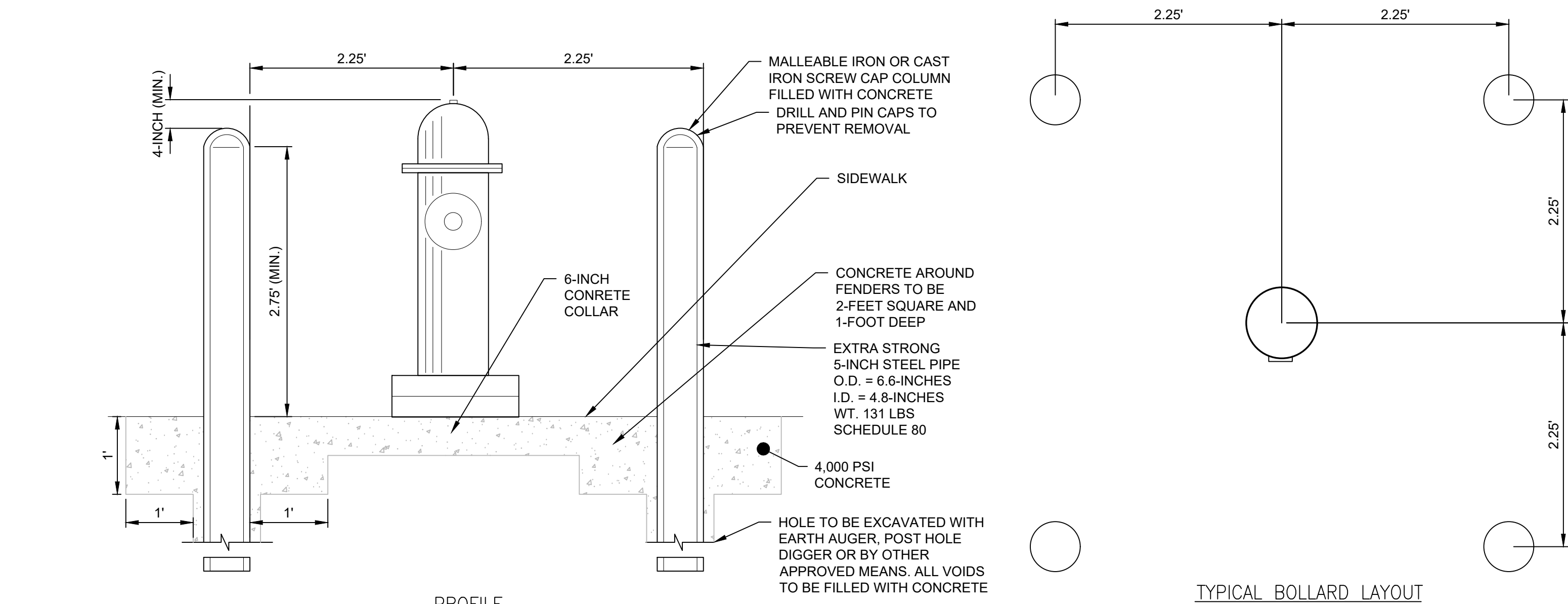


NOTES:

1. RESTRAINED JOINTS AND THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES AND DEAD ENDS.
2. PIPE TRENCH AND INSTALLATION SHALL BE AS SHOWN ON DETAILS.
3. RETAINER GLANDS SHALL BE MEGALUG SERIES 2000PV JOINT RESTRAINTS AS MANUFACTURED BY EBBA IRON, INC. OR APPROVED EQUAL.

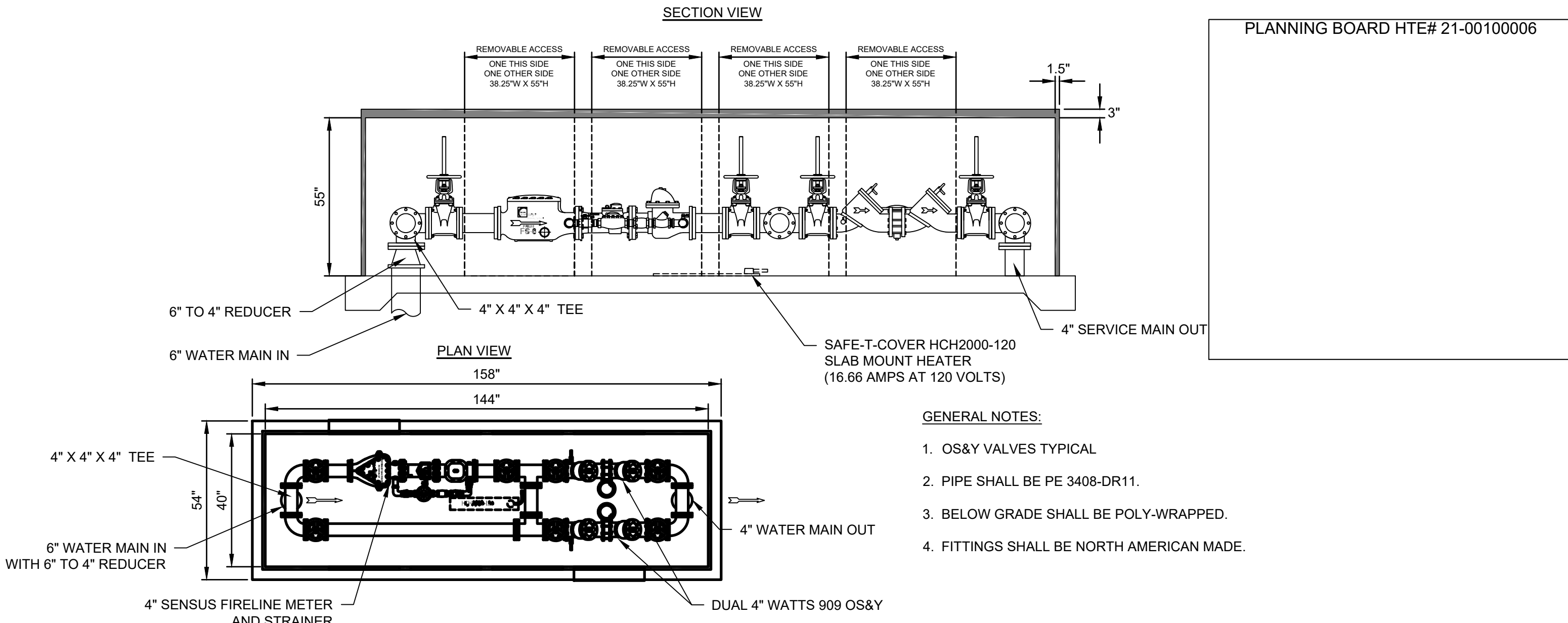
RESTRAINED JOINT DETAIL

N.T.S.



HYDRANT BOLLARDS

N.T.S.



GENERAL NOTES:

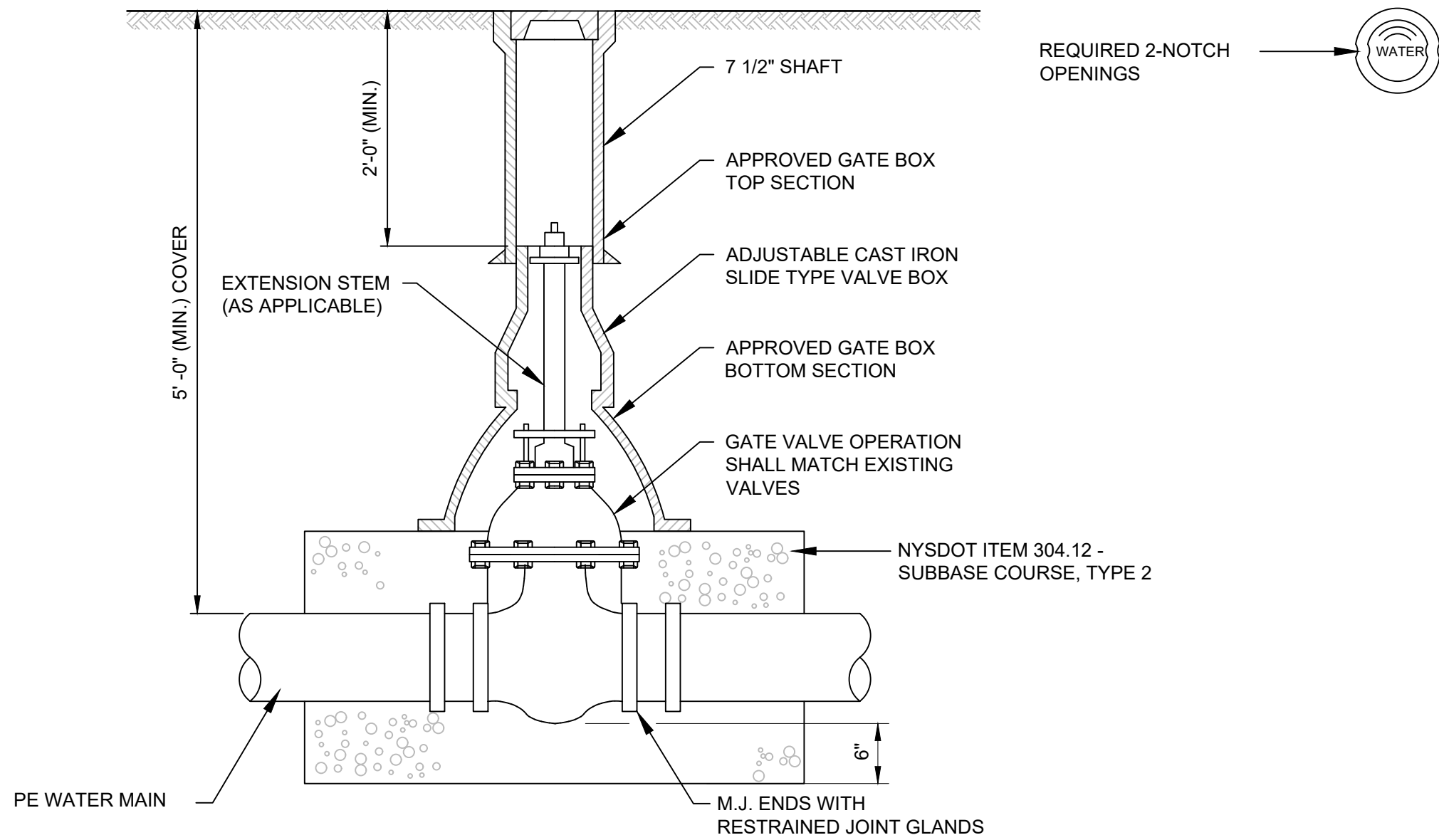
1. OS&Y VALVES TYPICAL.
2. PIPE SHALL BE PE 3408-DR11.
3. BELOW GRADE SHALL BE POLY-WRAPPED.
4. FITTINGS SHALL BE NORTH AMERICAN MADE.

WATER METER/BACKFLOW PREVENTER ENCLOSURE

N.T.S.

NOTE:

1. ALL GATE VALVES SHALL BE MUELLER MODEL A-2361 AND INSTALLED IN ACCORDANCE WITH AWWA C600 OR APPROVED EQUAL.



GATE VALVE DETAIL

N.T.S.



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PROJECT MILESTONE

FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
2	06/06/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

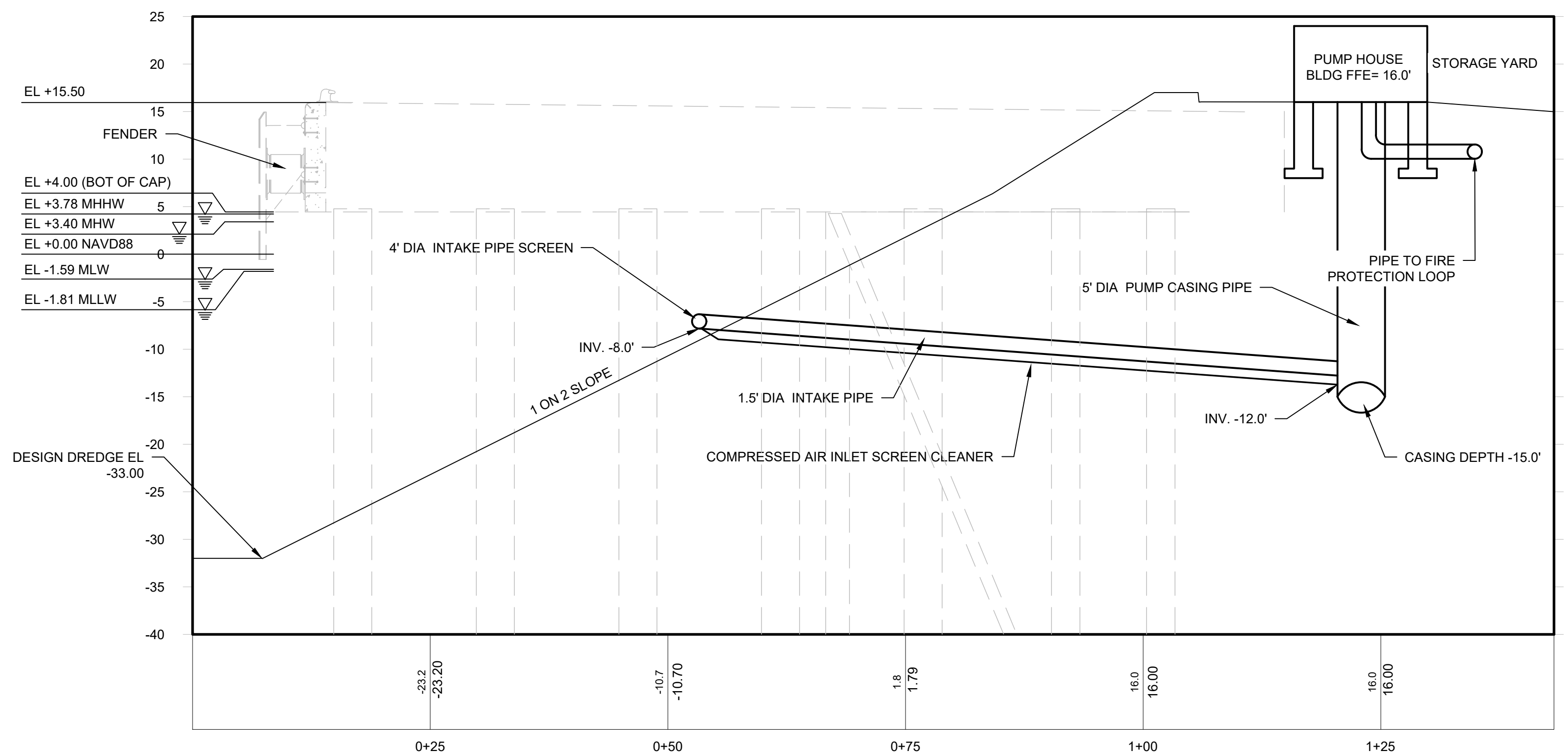
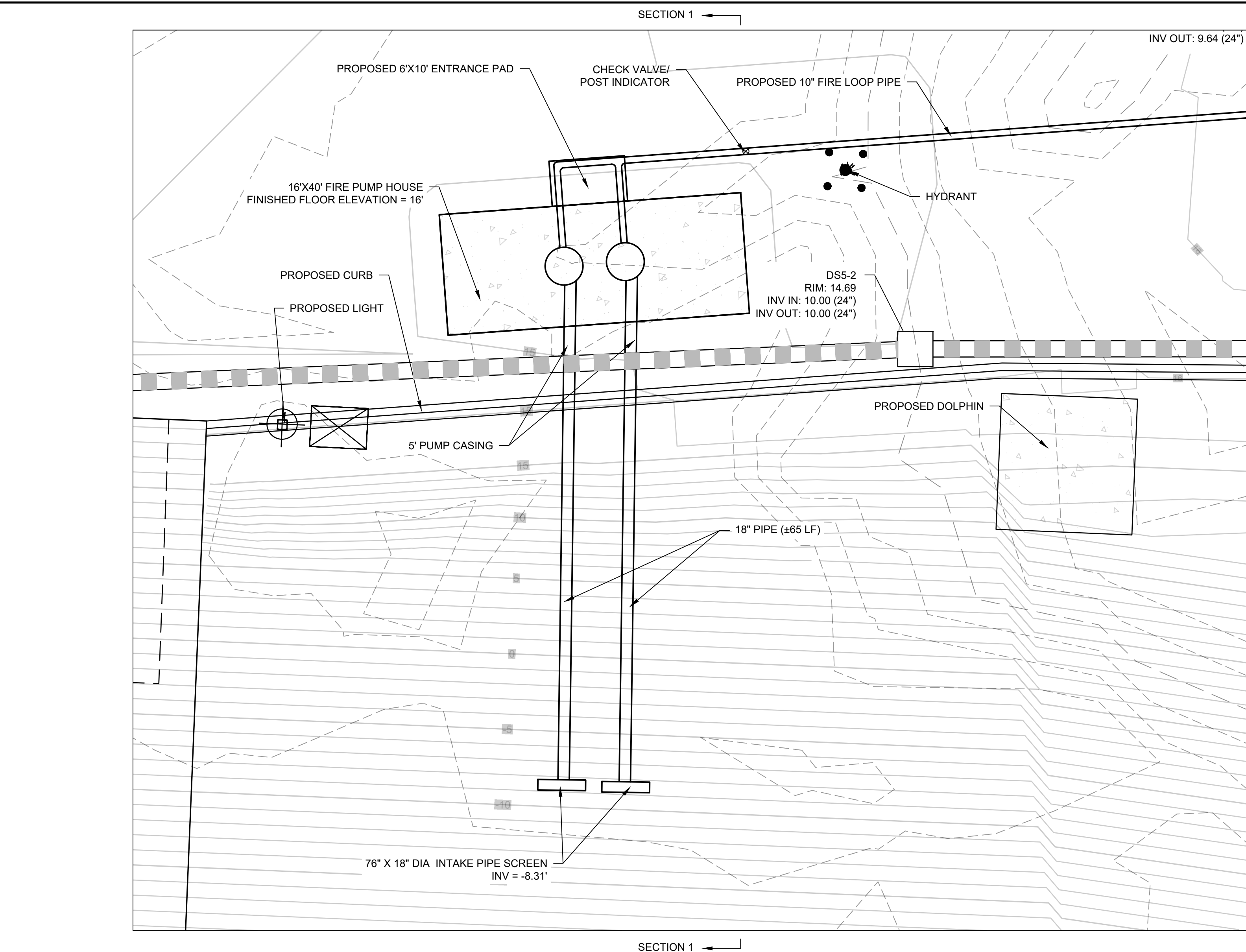
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WATER DETAILS

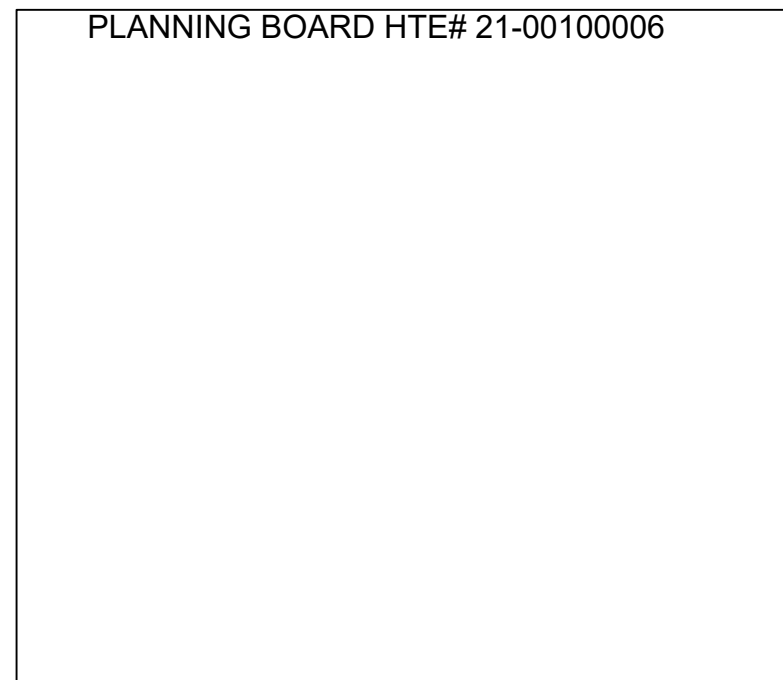
DRAWING NUMBER

UT-19

N:\18641\05 ALBANY PORT EXPANSION\DRAWINGS\DESIGN SHEETS\18641-05 FIRE PUMP HOUSE.DWG



Section 1
Horizontal Scale: 1" = 10'
Vertical Scale: 1" = 10'




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FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05/10/2022
PROJECT	18641.00



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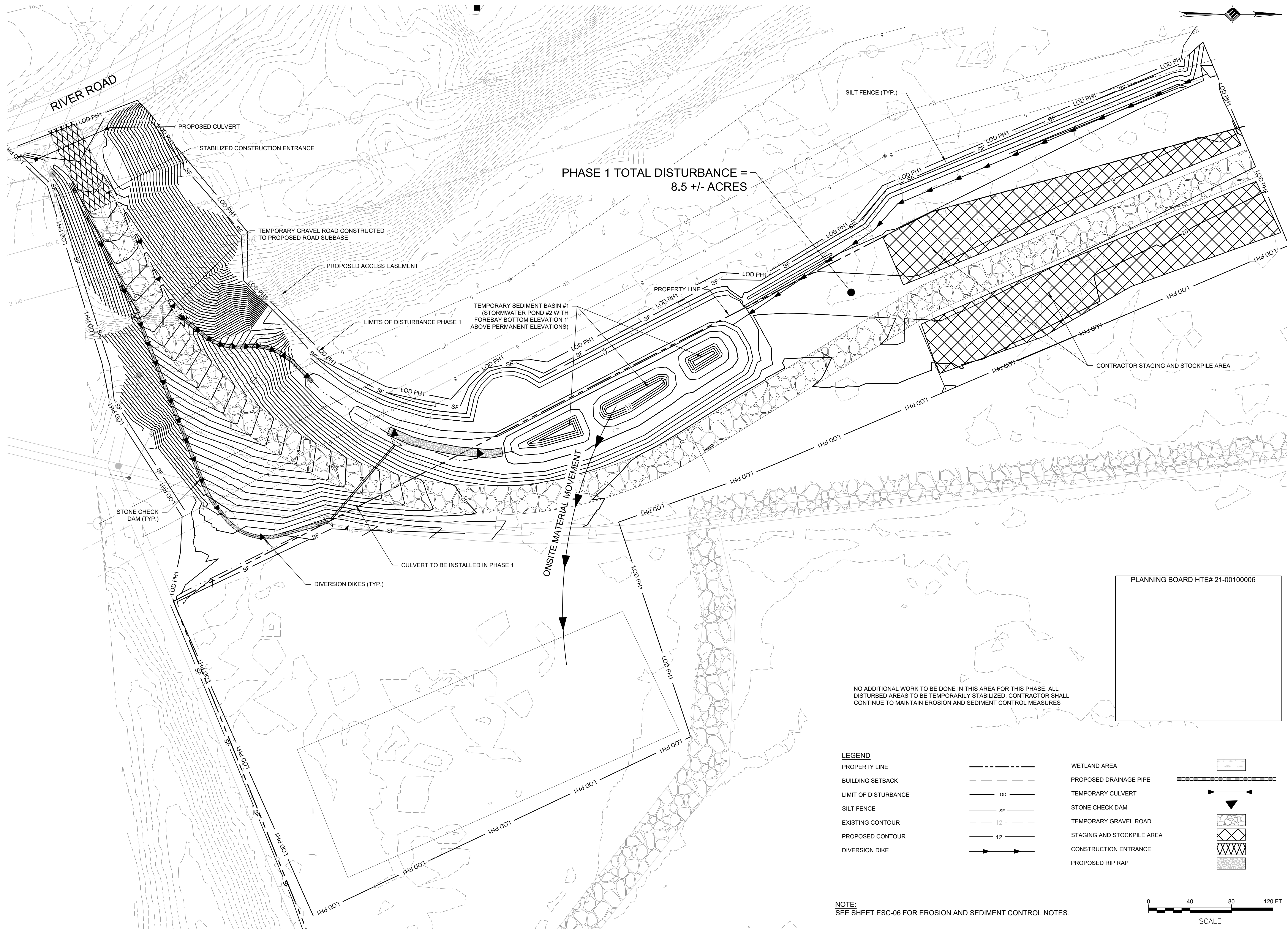
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WATER DETAILS

DRAWING NUMBER

UT-20

N:\18641.00 ALBANY PORT EXPANSION\DRAWINGS\SCHEMATIC\ESC-PH1.DWG



LEGEND

PROPERTY LINE	---
BUILDING SETBACK	---
LIMIT OF DISTURBANCE	---
SILT FENCE	SF
EXISTING CONTOUR	12
PROPOSED CONTOUR	12
DIVERSION DIKE	→
WETLAND AREA	
PROPOSED DRAINAGE PIPE	
TEMPORARY CULVERT	
STONE CHECK DAM	
TEMPORARY GRAVEL ROAD	
STAGING AND STOCKPILE AREA	
CONSTRUCTION ENTRANCE	
PROPOSED RIP RAP	

NOTE:
SEE SHEET ESC-06 FOR EROSION AND SEDIMENT CONTROL NOTES.



PLANNING BOARD HTE# 21-00100006

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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DRAWING TITLE

EROSION & SEDIMENT
CONTROL PLAN-PH.1

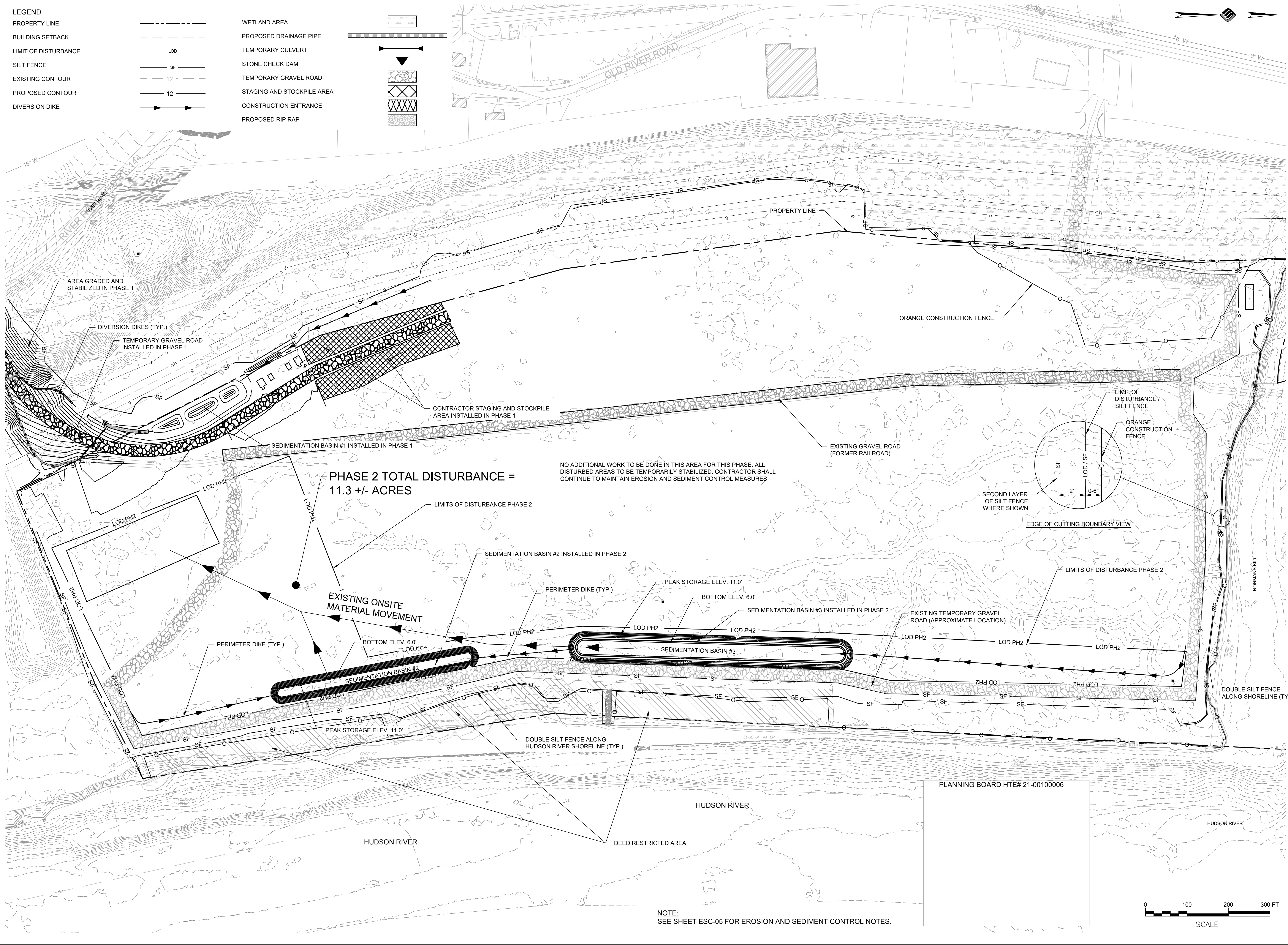
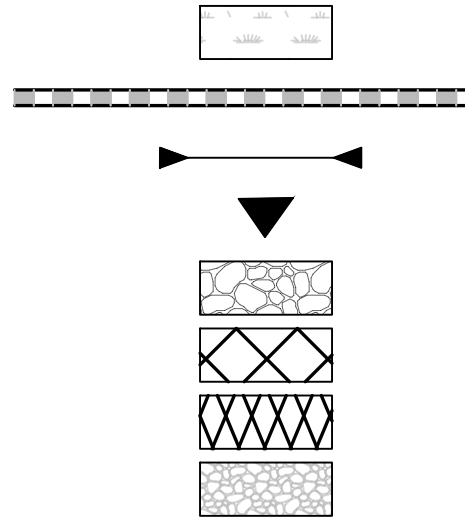
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ESC-01

- LEGEND
- PROPERTY LINE
BUILDING SETBACK
LIMIT OF DISTURBANCE
SILT FENCE
EXISTING CONTOUR
PROPOSED CONTOUR
DIVERSION DIKE

- LOD
SF
12
12

- WETLAND AREA
PROPOSED DRAINAGE PIPE
TEMPORARY CULVERT
STONE CHECK DAM
TEMPORARY GRAVEL ROAD
STAGING AND STOCKPILE AREA
CONSTRUCTION ENTRANCE
PROPOSED RIP RAP



NOTE:
SEE SHEET ESC-05 FOR EROSION AND SEDIMENT CONTROL NOTES.



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
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DRAWING TITLE

**EROSION & SEDIMENT
CONTROL PLAN-PH.2**

DRAWING NUMBER

ESC-02



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



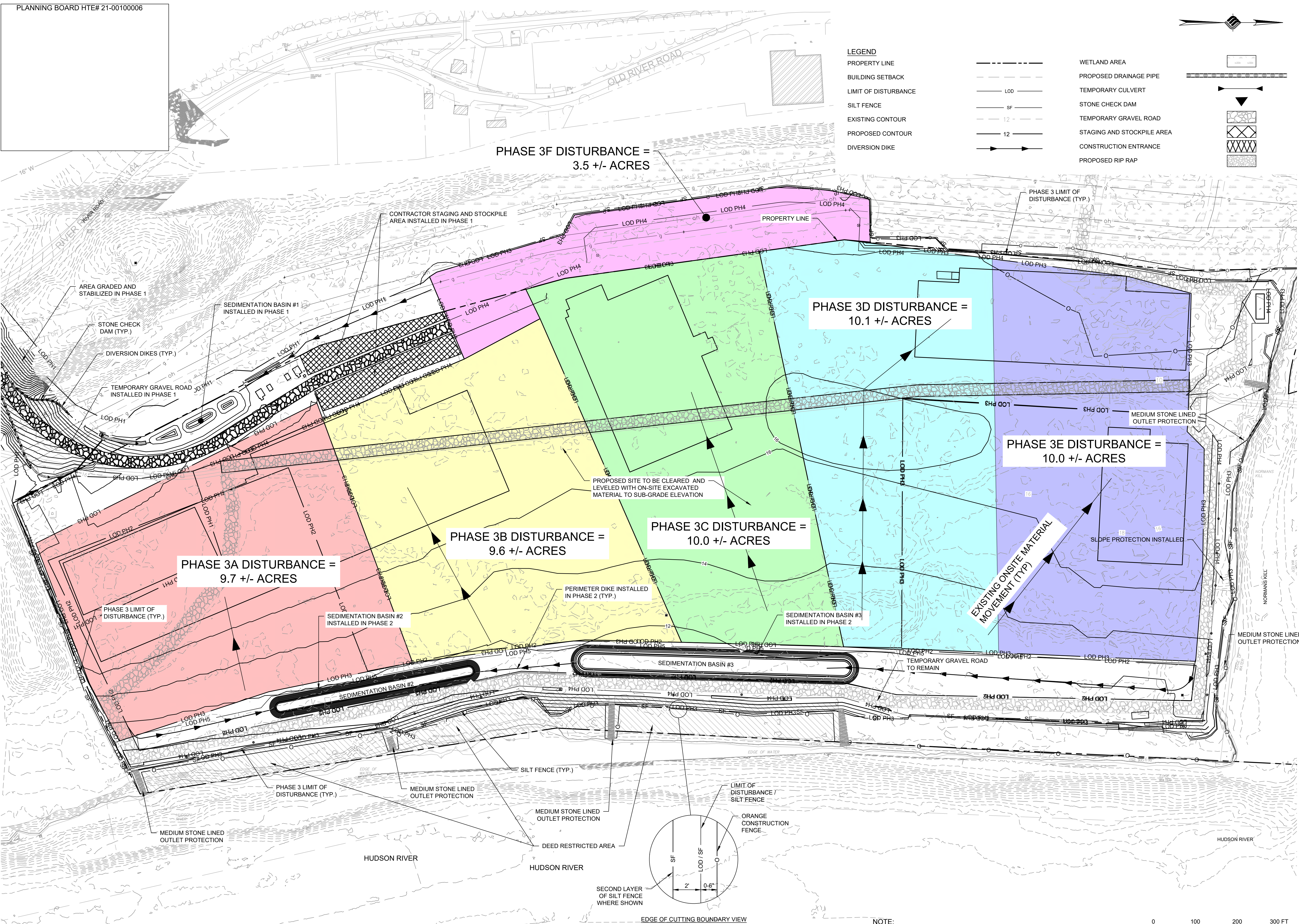
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DRAWING TITLE

EROSION & SEDIMENT CONTROL PLAN-PH.3

DRAWING NUMBER

ESC-03





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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



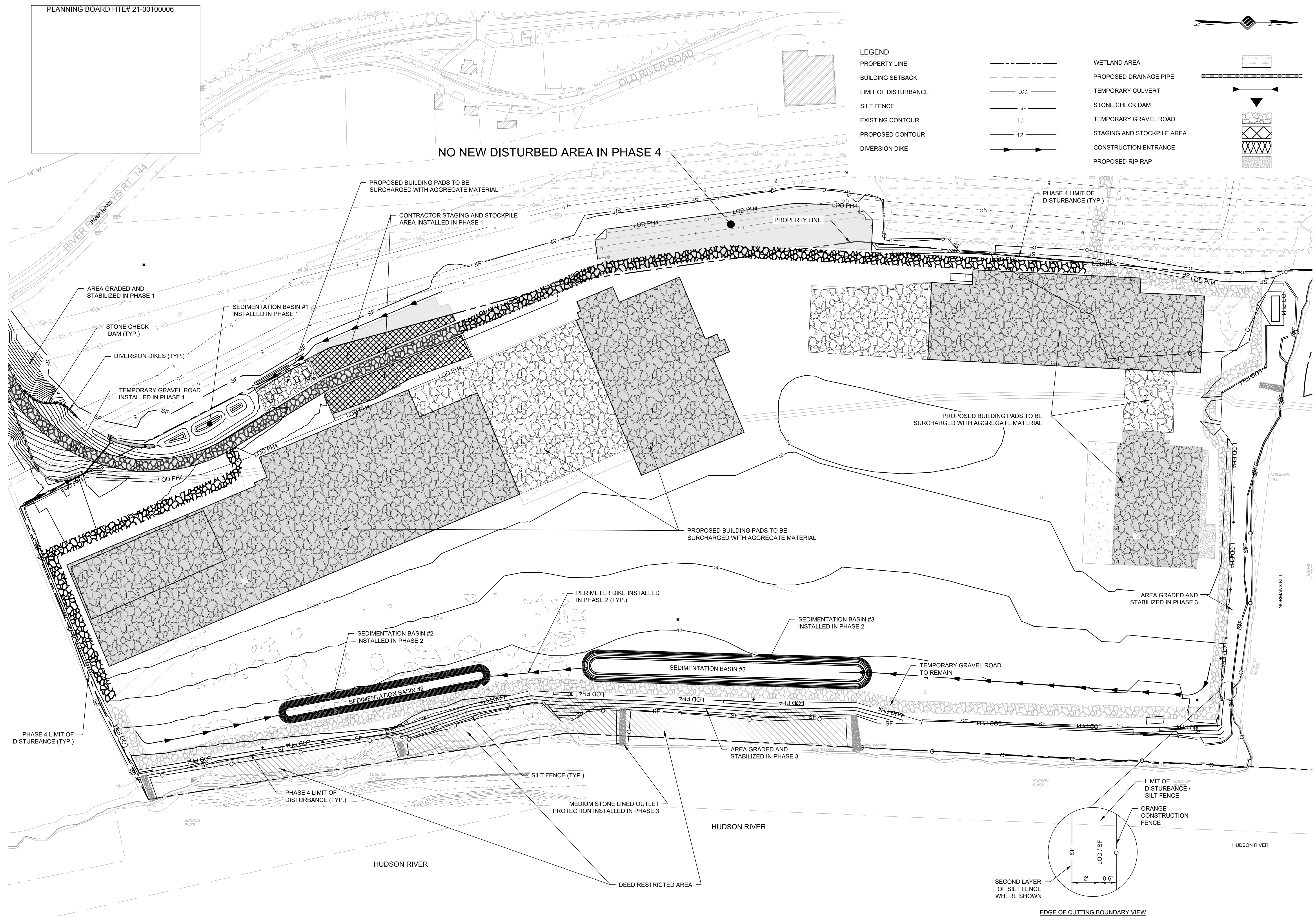
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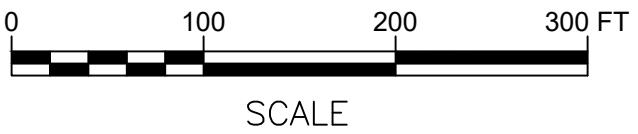
EROSION & SEDIMENT CONTROL PLAN-PH.4

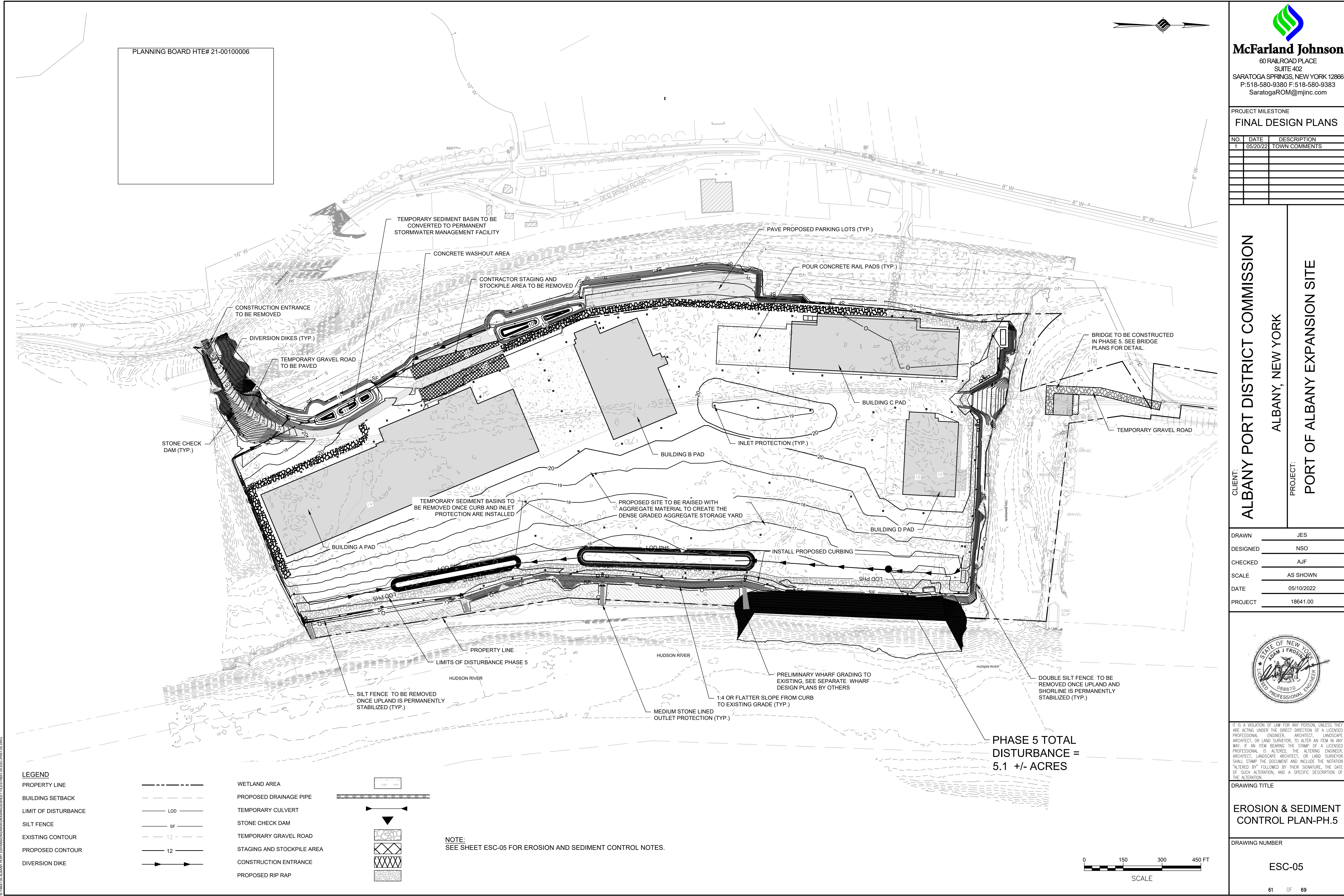
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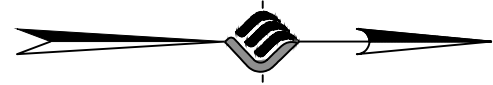


NOTE:
SEE SHEET ESC-05 FOR EROSION AND SEDIMENT CONTROL NOTES.





PLANNING BOARD HTE# 21-00100006



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT: **ALBANY PORT DISTRICT COMMISSION**
ALBANY, NEW YORK

PROJECT: **PORT OF ALBANY EXPANSION SITE**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
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PROJECT	18641.00



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DRAWING TITLE

EROSION & SEDIMENT CONTROL PLAN-PH.5

DRAWING NUMBER

ESC-05

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LEGEND

PROPERTY LINE	-----	WETLAND AREA
BUILDING SETBACK	----	PROPOSED DRAINAGE PIPE
LIMIT OF DISTURBANCE	---	TEMPORARY CULVERT
SILT FENCE	—SF—	STONE CHECK DAM
EXISTING CONTOUR	---12---	TEMPORARY GRAVEL ROAD
PROPOSED CONTOUR	—12—	STAGING AND STOCKPILE AREA
DIVERSION DIKE	→→→	CONSTRUCTION ENTRANCE
		PROPOSED RIP RAP

NOTE:
SEE SHEET ESC-05 FOR EROSION AND SEDIMENT CONTROL NOTES.

**PHASE 5 TOTAL
DISTURBANCE =
5.1 +/- ACRES**



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EROSION AND SEDIMENT CONTROL PLAN NOTES:

1. THE EROSION AND SEDIMENT CONTROL PLAN IS INTENDED TO REPRESENT A CONCEPTUAL APPROACH TO EROSION AND SEDIMENT CONTROL. IT IS FURTHER INTENDED THAT THE OWNER AND CONTRACTOR SHALL IMPLEMENT PRACTICES, AS REQUIRED, TO CONTROL EROSION AND SEDIMENT IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL AND SWPPP.
2. INSTALL SILT FENCE, AND ALL OTHER EROSION CONTROL MEASURES AS INDICATED ON THE PLAN PRIOR TO THE START OF ANY EXCAVATION WORK. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND THE GOVERNING MUNICIPALITY REQUIREMENTS.
3. REMOVE AND STOCKPILE TOPSOIL IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS ARE TO BE HYDROSEEDDED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS, INCLUDING INLET PROTECTION AND SILT FENCE. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE AREAS HAVE BEEN PROPERLY STABILIZED.
5. CONTRACTOR SHALL MAINTAIN A STOCK PILE OF EROSION AND SEDIMENT CONTROL MEASURES ON SITE AS INDICATED ON THE PLAN.
6. NO PETROLEUM PRODUCTS ARE TO BE STORED ON SITE WITHOUT PRIOR APPROVAL OF THE LOCAL STORMWATER INSPECTOR. ANY PETROLEUM ON SITE WILL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL GOVERNMENT REGULATIONS.
7. WRAP YARD INLET GRATES IN FILTER FABRIC PROGRESSIVELY AS STORM SEWER AND YARD INLETS ARE INSTALLED.
8. ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED AT A MINIMUM OF EVERY 3 MONTHS.
9. JUTE MESH WILL BE USED ON SLOPES STEEPER THAN 3:1 AND WHEREVER NECESSARY TO CONTROL EROSION AND SILTATION OF EXISTING DRAINAGE SYSTEMS AS ORDERED BY THE ENGINEER.
10. ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
11. ALL RIP-RAP OUTLET PROTECTION TO BE CONSTRUCTED PER NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
12. CONTRACTOR SHALL TAKE THE NECESSARY MEASURES, INCLUDING WATER SPRINKLING, TO PROVIDE DUST CONTROL DURING CONSTRUCTION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL FEATURES THROUGHOUT THE DURATION OF CONSTRUCTION.
 - A. ALL SEDIMENT TRAPPING DEVICES AND INLET PROTECTION DEVICES SHALL BE CLEANED OF ACCUMULATED SILT WHEN STORAGE CAPACITY HAS BEEN REDUCED BY 50% OF THEIR DESIGN CAPACITY.
 - B. ALL SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE AND STRAW BALES WHEN IT ACCUMULATES TO A MAXIMUM HEIGHT OF 6".
 - C. AFTER VEGETATION HAS BEEN SUBSTANTIALLY ESTABLISHED, EXCAVATE SWALES OF ACCUMULATED SILT. RE-ESTABLISHED VEGETATION ON DISTURBED AREAS.
 - D. SEDIMENT COLLECTED BY EROSION CONTROL MEASURES SHALL BE DISPOSED OF BY SPREADING ON-SITE OR HAULED AWAY IF DETERMINED TO BE UNSUITABLE FOR FILL.
12. ALL DISTURBED AREAS SHALL BE STABILIZED, SEEDED AND MULCHED WITHIN 7 DAYS OF CEASED CONSTRUCTION ACTIVITY.
13. TOTAL PROJECT DISTURBANCE AREA PER THE NYSDEC SPDES STANDARDS IS 79 ACRES.
14. ALL AREAS TO REMAIN AS PVIOUSLY VEGETATED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE NYS STORMWATER MANAGEMENT DESIGN MANUAL TABLE 5.3 SOIL RESTORATION REQUIREMENTS.

PERMANENT SEEDING NON-SLOPED AREAS:

1. IF SOILS ARE COMPACTED, SCARIFY UPPER TWO INCHES BY BACKBLADING WITH DOZER, RAKING, OR DISKING.
2. PLACE TOPSOIL TO A MINIMUM DEPTH OF 4 INCHES.
3. SEED PER SCHEDULE SPECIFIED ON LANDSCAPE PLANS.
4. FERTILIZE WITH 600 POUNDS PER ACRE OF 10-10-10. LIME TO ACHIEVE A PH OF NOT LESS THAN 5.5 OR GREATER THAN 7.6. IF HYDROSEEDER IS NOT USED, SEED AND FERTILIZER SHOULD BE LIGHTLY RAKED INTO SOIL.
5. MULCH WITH CLEAN (WEED FREE) STRAW IF SPECIFIED ON PLANS.

PERMANENT SEEDING SLOPED AREAS:

1. IF SOILS ARE COMPACTED, SCARIFY UPPER TWO INCHES BY BACKBLADING WITH DOZER, RAKING, OR DISKING.
2. PLACE TOPSOIL TO A MINIMUM DEPTH OF 4 INCHES.
3. FERTILIZE WITH 600 POUNDS PER ACRE OF 10-10-10. LIME TO ACHIEVE A PH OF NOT LESS THAN 5.5 OR GREATER THAN 7.6. IF HYDROSEEDER IS NOT USED, SEED AND FERTILIZER SHOULD BE LIGHTLY RAKED INTO SOIL.
4. IMMEDIATELY SEED PER SEED SCHEDULE SPECIFIED ON LANDSCAPE PLAN.
5. PROVIDE JUTE MESH IF SPECIFIED ON PLANS OR MULCH WITH CLEAN (WEED FREE) STRAW.

EROSION AND SEDIMENT CONTROL SEQUENCE:

THE TOWN OF BETHLEHEM SHOULD BE NOTIFIED PRIOR TO CONSTRUCTION ACTIVITIES STARTING AND CEASING DISTURBANCE OF OVER 5 ACRES AT ONE TIME.

PHASE I:

- INSTALL CONSTRUCTION ENTRANCE ROADS
- ESTABLISH THE PROJECT CONSTRUCTION STAGING/OFFICE AREA
- USE ANY ACCESS ROAD CUT MATERIAL AS FILL FOR THE CONSTRUCTION STAGING AREA
- TEMPORARILY STABILIZE ALL DISTURBED AREAS
- INSTALL SILT FENCE DOWNSTREAM OF ALL DISTURBED AREAS
- CONSTRUCT SEDIMENTATION BASIN #1 FOREBAYS TO 1' HIGHER THEN PROPOSED GRADING FOR THE PERMANENT STORM WATER MANAGEMENT POND #2 FOREBAYS.
- MATERIAL FROM THE POND EXCAVATION TO BE PLACED AND COMPACTED AS PART OF THE BUILDING A EMBANKMENT.
- BASED ON THE POTENTIAL FOR PROPOSED ROCK CUT WHEN EXCAVATING THE ROADWAY SECTION PHASE II MAY PROGRESS PRIOR TO THE COMPLETION OF PHASE I. THE PHASE I AREA SHALL BE STABILIZED TO THE MINIMIZE DISTURBANCE AREA PRIOR TO PROGRESSION TO PHASE II

PHASE II:

- INSTALL PERIMETER CONTROLS
- INSTALL ADDITIONAL CONSTRUCTION ACCESS ROAD
- CONSTRUCT SEDIMENTATION BASINS AND DIVERSION DIKES TO BASINS
- THE PROPOSED TEMPORARY STORM WATER TREATMENT FACILITIES SHALL BE INSTALLED BEFORE PROGRESSING INTO PHASE III

PHASE III:

- SITE TO BE GRUBBED AND GRADED TO THE TOP OF SUB-GRADE ELEVATION IN SUB-PHASES
- BALANCE CUT AND FILLS IN THE SITE.
- COMPACT/IMPROVE EXISTING GROUND CONDITIONS ACCORDING TO GEOTECHNICAL REPORT
- IMPORT MATERIAL TO RAISE THE SITE TO PROPOSED SUB-GRADE ELEVATIONS
- LIMITS OF DISTURBANCE DISTURBANCE TO BE MINIMIZED IN EACH SUB-PHASE BY STABILIZING AREAS WITHIN 2 DAYS AFTER FINAL GRADE IS ACHIEVED
- THE SUB-PHASE AREAS WILL BE DISTURBED AND STABILIZE IN A ROLLING OPERATION AS THE EARTHWORK PROGRESSES FROM THE SOUTH END OF THE SITE TO THE NORTH END. TO AVOID STOCKPILING AVAILABLE CUT MATERIAL FROM ONE SUB-PHASE AREA MAY BE DEPOSITED AND STABILIZED WITHIN ANOTHER SUB-PHASE AREA; HOWEVER THE OVERALL TOTAL DISTURBED AREA SHALL NOT EXCEED 11 ACRES.
- PHASE IV AGGREGATE PLACEMENT WORK WILL OCCUR SIMULTANEOUSLY AND PROVIDE STABILIZATION ONCE SUB-GRADE ELEVATIONS HAVE BEEN ACHIEVED.

PHASE IV:

- HAUL IN PROPOSED AGGREGATE MATERIAL TO SURCHARGE THE BUILDING FOOTPRINTS AND CONCRETE AREAS
- MAINTAIN EXISTING PHASE III EROSIONAL AND SEDIMENT CONTROL MEASURES
- MONITOR SETTLEMENT OF THE SUB-GRADE MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

PHASE V:

- INSTALL STORM SEWER SYSTEM WITH INLET PROTECTION FOR DRAINAGE STRUCTURES AND STONE LINING OUTLET PROTECTION
- INSTALL SITE UTILITIES
- SPREAD AGGREGATE MATERIAL TO STORAGE AREAS
- INSTALL INFILTRATION CHAMBERS
- POUR ALL PROPOSED CONCRETE RAIL PADS AND SIDEWALKS
- INSTALL PROPOSED CONCRETE CURBING
- PAVE PARKING LOT AREAS
- REMOVE CONSTRUCTION STAGING AREA
- CONVERT TEMPORARY SEDIMENT BASIN TO PERMANENT STORM WATER MANAGEMENT FACILITIES BY EXCAVATING THE PERMANENT POOL AND FOREBAYS DOWN TO FINAL GRADE AND CONVERTING THE OUTLET STRUCTURE.
- REMOVE TEMPORARY SEDIMENT BASINS, WHICH ARE NOT TO BE CONVERTED TO PERMANENT PRACTICES
- FINAL STABILIZATION FOR EMBANKMENT SLOPES ALONG THE NORMANS KILL AND HUDSON RIVER

TEMPORARY SEEDING:

1. IF SOILS ARE COMPACTED, SCARIFY UPPER TWO INCHES BY BACKBLADING WITH DOZER, RAKING, OR DISKING. FERTILIZE WITH 300 POUNDS PER ACRE OF 10-10-10.
2. NOTE: NO FERTILIZER SHOULD BE USED AFTER OCTOBER 1ST IF THERE IS DANGER OF LEACHING INTO WATER RESOURCE.
3. IMMEDIATELY SEED PER SEED SCHEDULE SPECIFIED ON LANDSCAPE PLAN.
4. APPLY STRAW MULCH AS NECESSARY TO HOLD IN MOISTURE, PROTECT SOIL FROM EROSION, HOLD SEED IN PLACE, AND KEEP SOIL TEMPERATURES MORE CONSTANT; 2 TONS PER ACRE.

SOIL RESTORATION NOTES:

SOIL RESTORATION PROCEDURE:

DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE, THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS APPLIED:

1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL
2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SUBSOILS
3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE
4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES
5. VEGETATE AS REQUIRED BY APPROVED PLAN.

AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH A 3/8" METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT. TILLING (STEP 2 ABOVE) SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATIONS THAT ARE WITHIN 24 INCHES OF THE SURFACE.

COMPOST SPECIFICATIONS:

COMPOST SHALL BE AGED, FROM PLANT DERIVED MATERIALS, FREE OF VIABLE WEED SEEDS, HAVE NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING, PASS THROUGH A HALF INCH SCREEN AND HAVE A PH SUITABLE TO GROW DESIRED PLANTS.

WINTER STABILIZATION:

1. PREPARE A SNOW MANAGEMENT PLAN WITH ADEQUATE STORAGE FOR SNOW AND CONTROL OF MELT WATER, REQUIRING CLEARED SNOW TO BE STORED IN A MANNER NOT AFFECTING ONGOING CONSTRUCTION ACTIVITIES.
2. TO ENSURE ADEQUATE STABILIZATION OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL SHOULD BE STABILIZED AT THE END OF EACH WORK DAY UNLESS:
 - A. WORK WILL RESUME WITHIN 24 HOURS IN THE SAME AREA AND NO PRECIPITATION IS FORECAST OR;
 - B. THE WORK IS IN DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES, FOUNDATION EXCAVATIONS, OR WATER MANAGEMENT AREAS.
3. IF THE SITE WILL NOT HAVE EARTH DISTURBING ACTIVITIES ONGOING DURING THE "WINTER SEASON", ALL BARE EXPOSED SOIL MUST BE STABILIZED BY ESTABLISHED VEGETATION, STRAW OR OTHER ACCEPTABLE MULCH, MATTING, ROCK OR OTHER APPROVED MATERIAL, SUCH AS ROLLED EROSION CONTROL PRODUCTS. SEEDING OF AREAS WITH MULCH COVER IS PREFERRED BUT SEEDING ALONE IS NOT ACCEPTABLE FOR PROPER STABILIZATION.

SOIL DISTURBANCE PHASING	
PHASE	DISTURBANCE AREA
1	8.5 ACRES
2	11.3 ACRES
3	11 ACRES MAX.
3A	9.7 ACRES
3B	9.6 ACRES
3C	10.0 ACRES
3D	10.1 ACRES
3E	10.0 ACRES
3F	3.5 ACRES
4	NO NEW AREAS (MAY OCCUR SIMULTANEOUSLY WITH PHASE 3)
5	5.1 ACRES

NOTE: A 5-ACRE WAIVER REQUEST MUST BE APPROVED BY THE TOWN OF BETHLEHEM (MS4) PRIOR TO DISTURBING MORE THAN 5 ACRES.

PLANNING BOARD HTE# 21-00100006



McFarland Johnson

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SaratogaROM@mjinc.com

PROJECT MILESTONE

FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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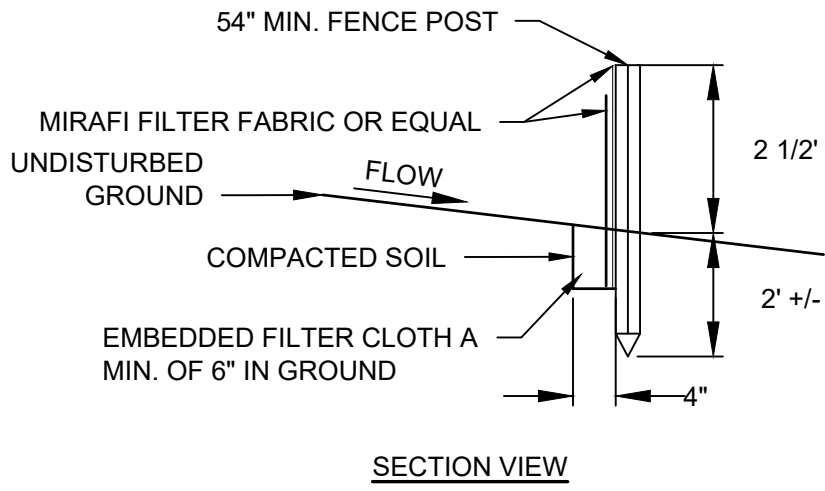
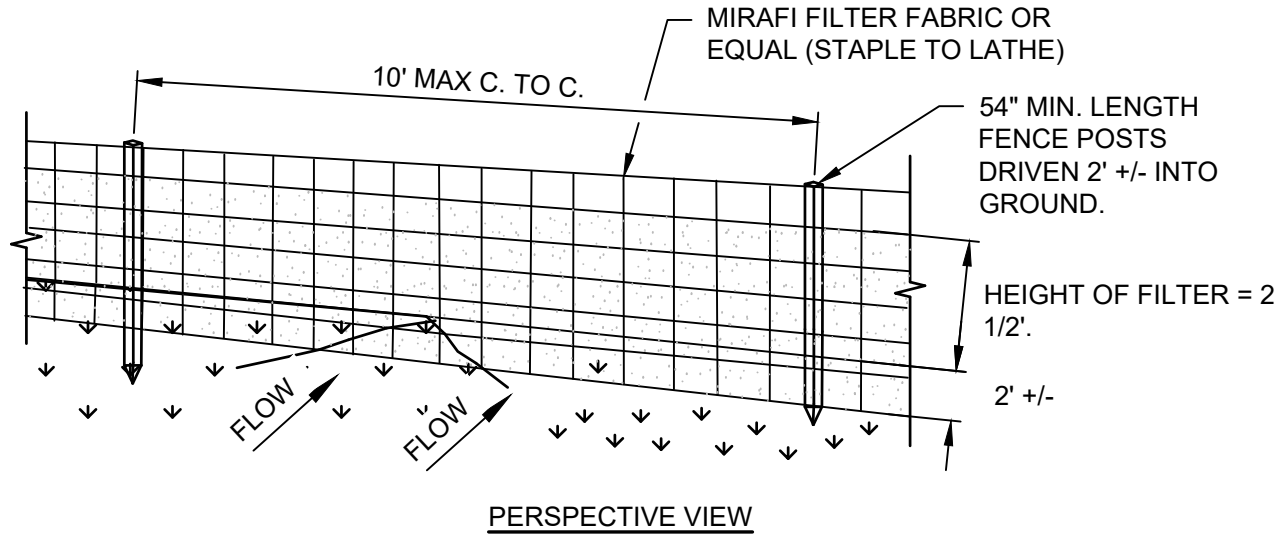
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EROSION & SEDIMENT CONTROL NOTES

DRAWING NUMBER

ESC-06

N:\18641\01 ALBANY PORT EXPANSION\DRAWINGS\DWG\ESC\DETAILS.DWG

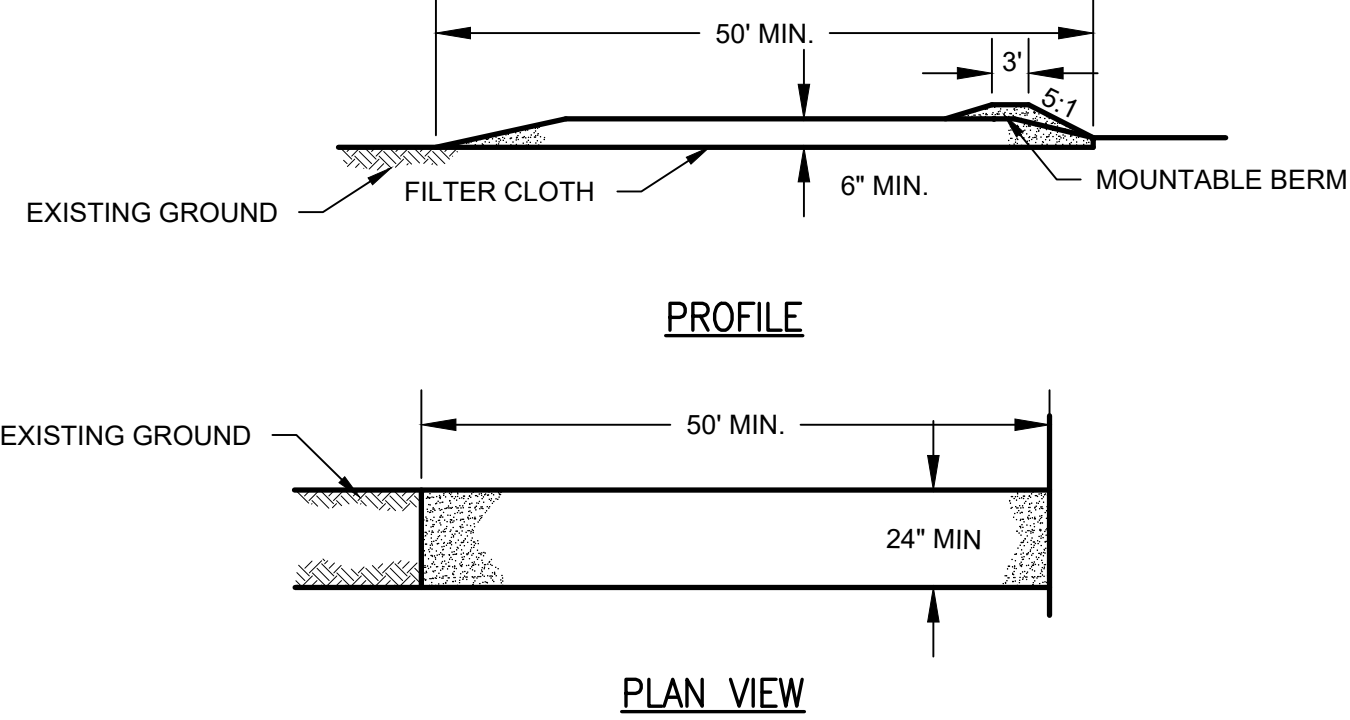


NOTES:

1. MIRAFI FILTER FABRIC TO BE SECURED TO FENCE POSTS WITH STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE

N.T.S.

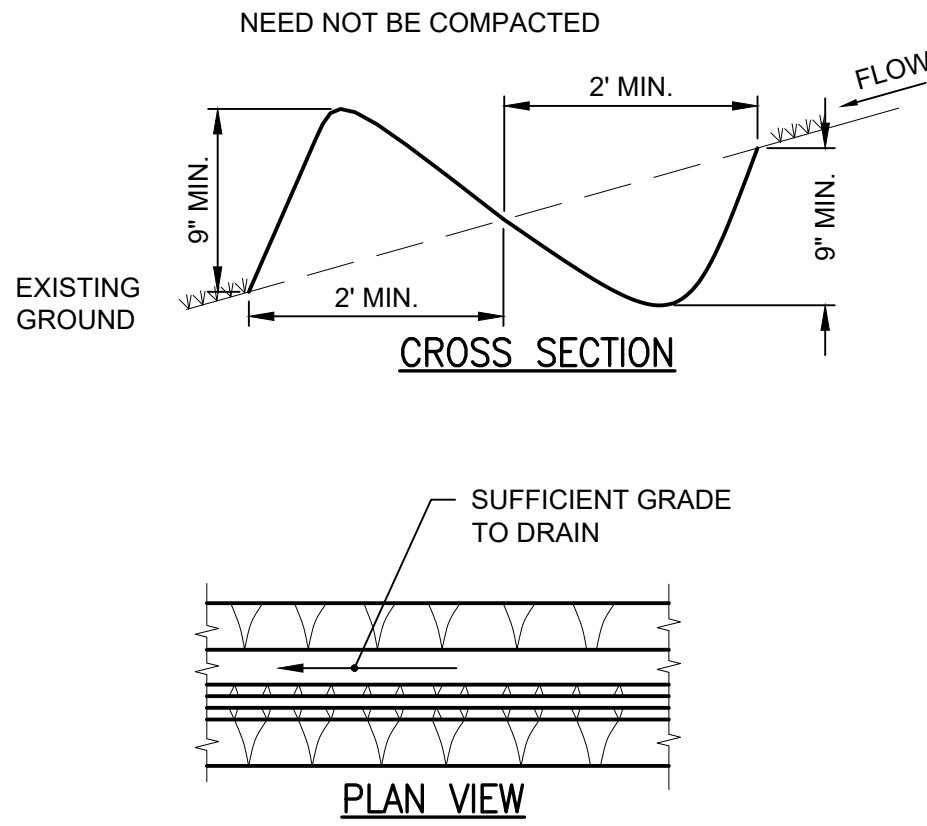


NOTES:

1. STONE SIZE - USE #3 CRUSHED STONE OR GRAVEL (PER NYSDOT SECTION 209).
2. LENGTH - NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - 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 MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
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 TRACTED 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

N.T.S.

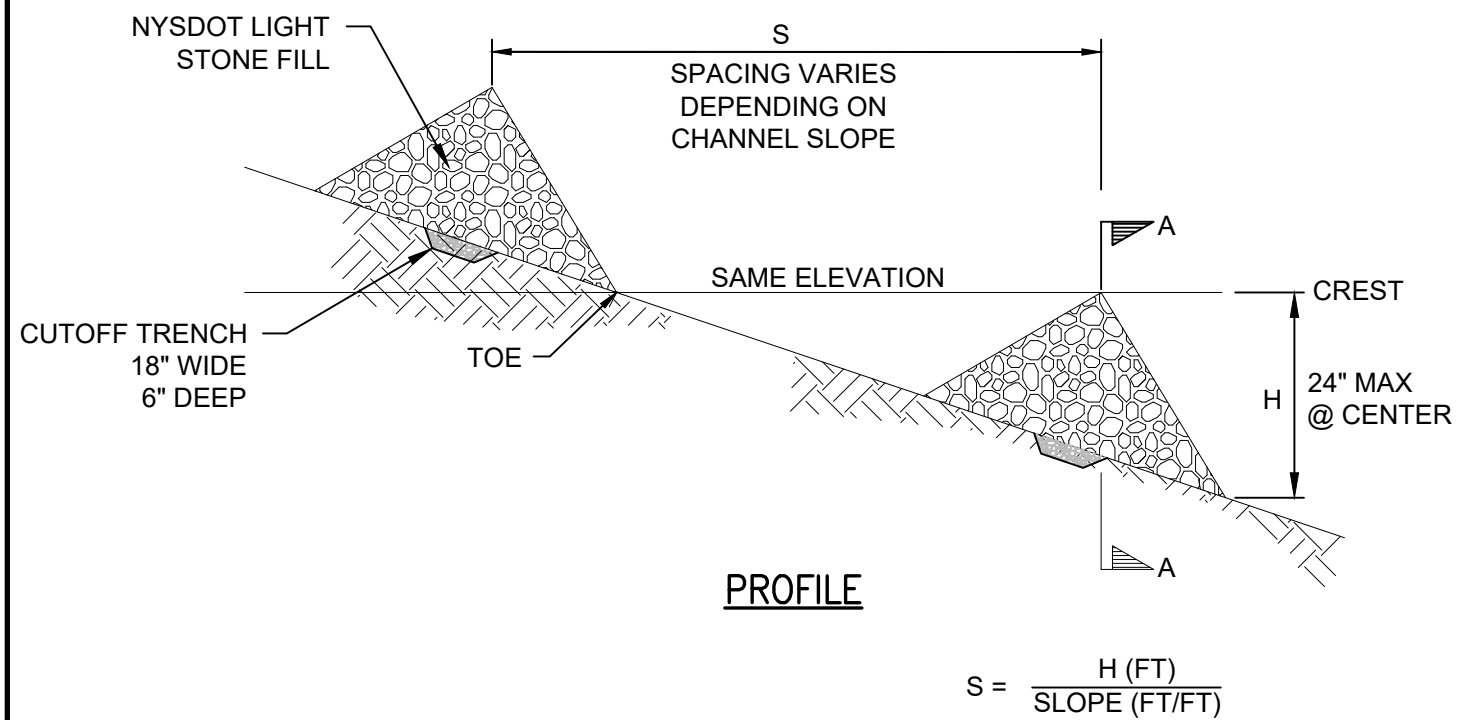


NOTES:

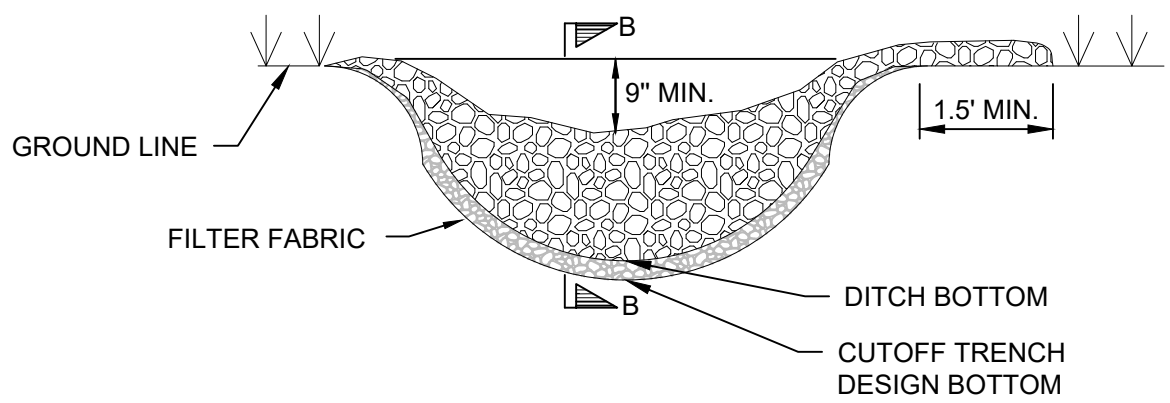
1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 10 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

PERIMETER DIKE

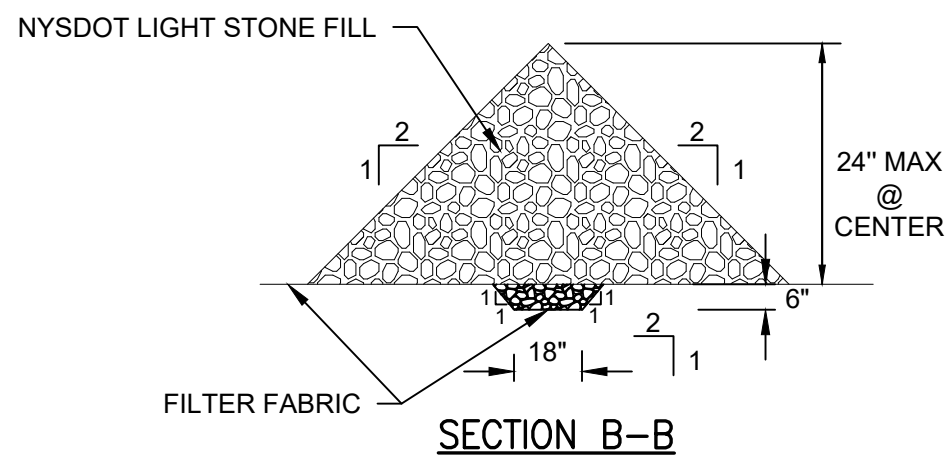
N.T.S.



PROFILE



SECTION A-A



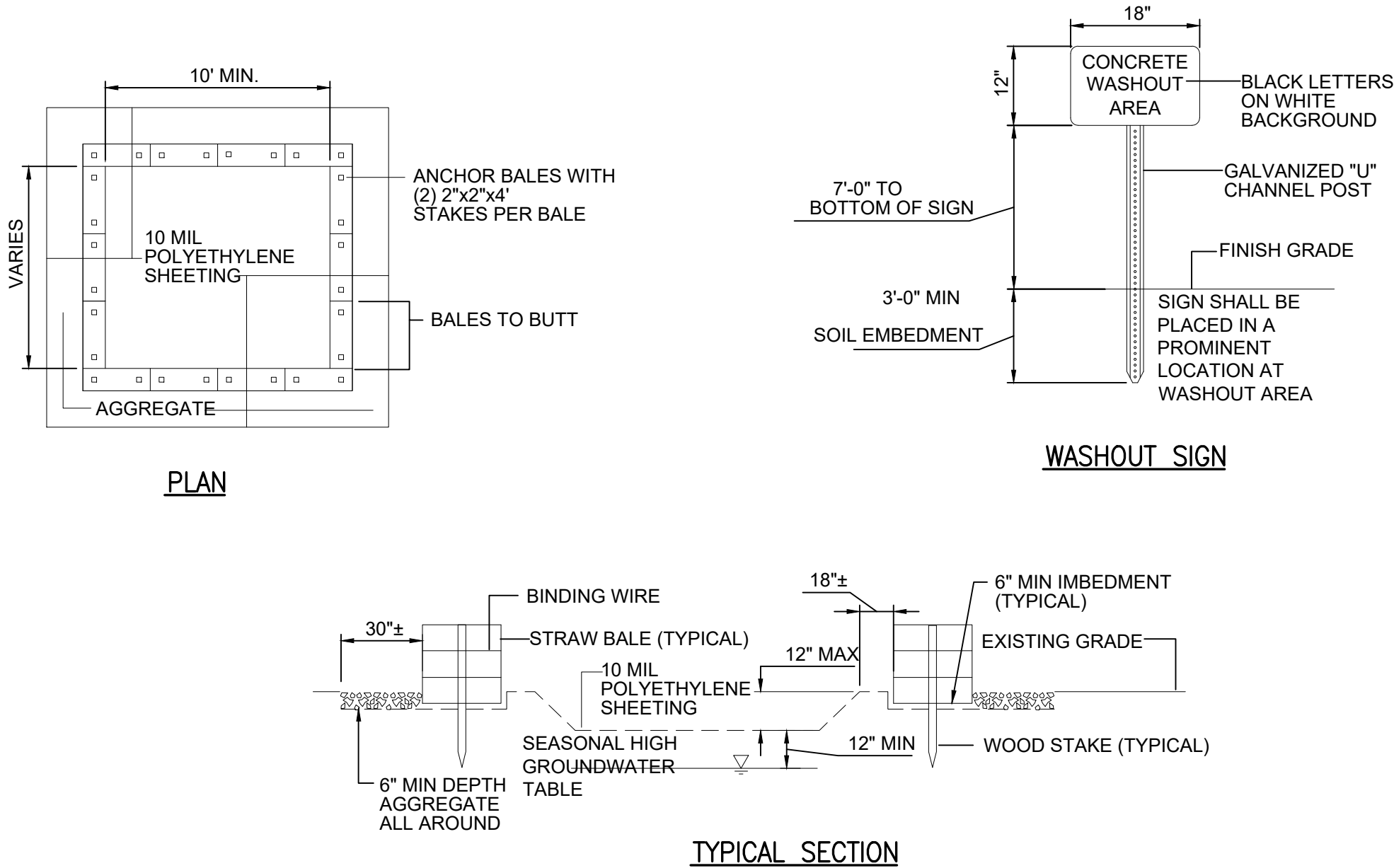
SECTION B-B

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES GRADES AND LOCATIONS SHOWN ON THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

LIGHT STONE CHECK DAM

N.T.S.



WASHOUT SIGN

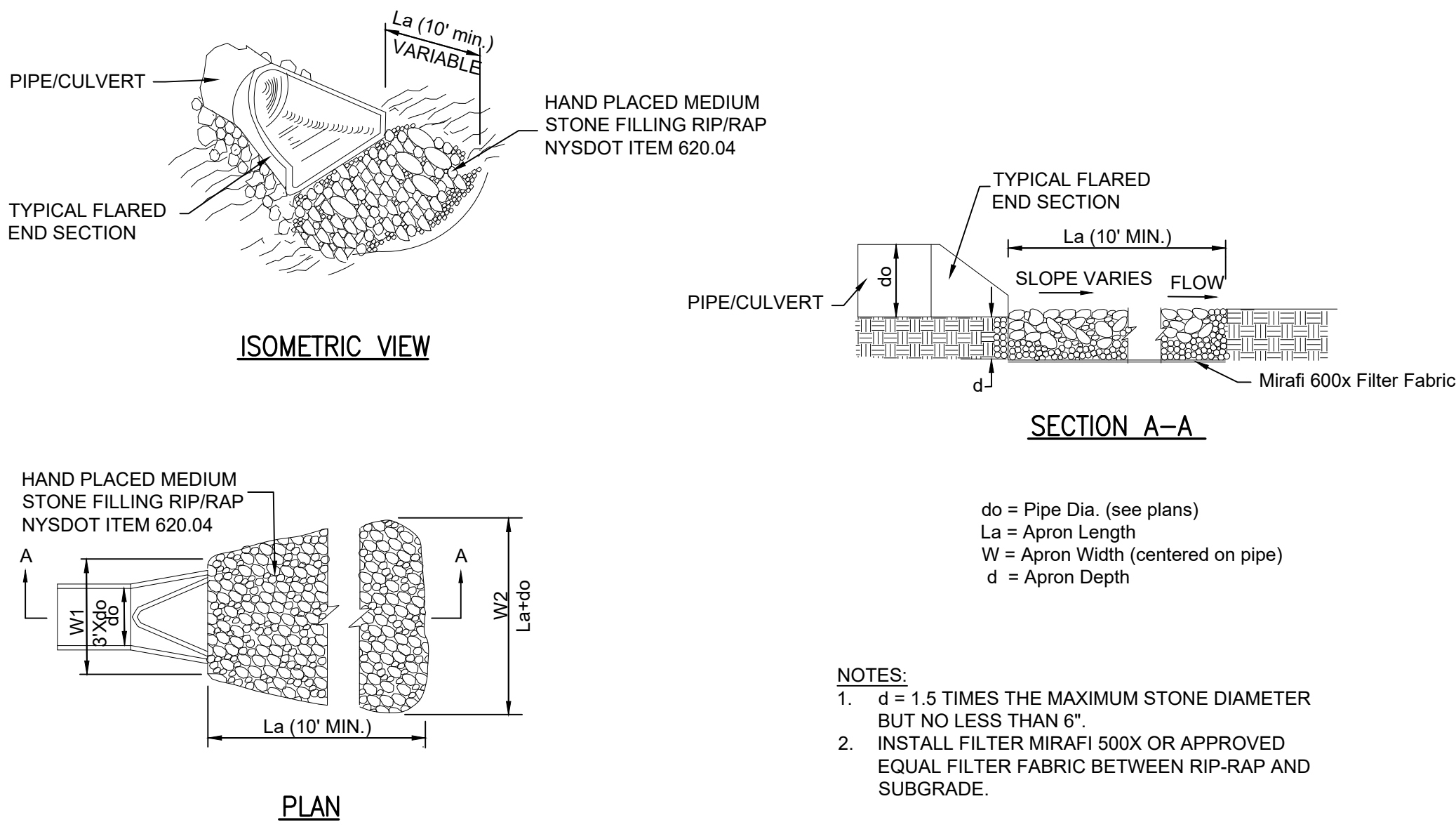
TYPICAL SECTION

NOTES:

1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

CONCRETE WASHOUT

N.T.S.



ISOMETRIC VIEW

SECTION A-A

PLAN

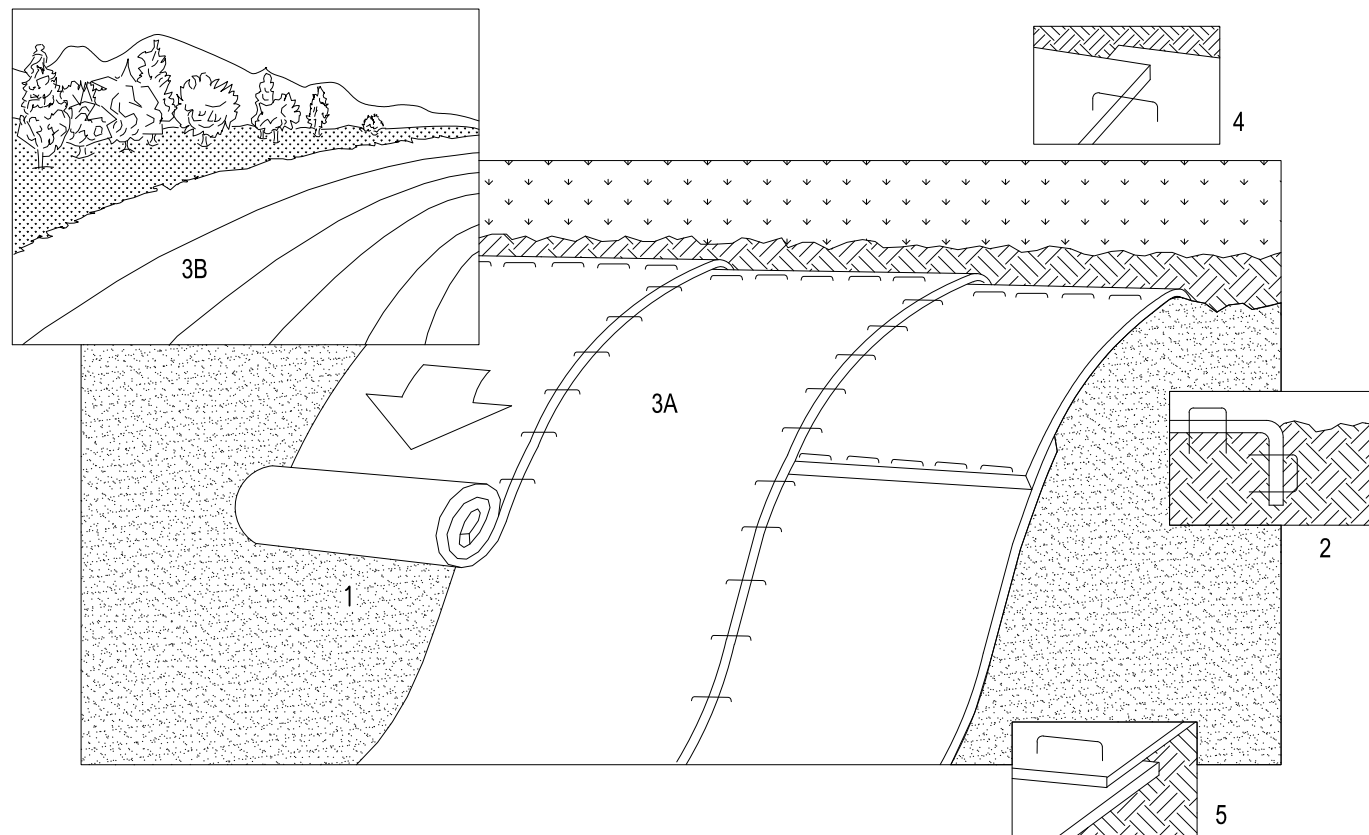
do = Pipe Dia. (see plans)
La = Apron Length
W = Apron Width (centered on pipe)
d = Apron Depth

NOTES:

1. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NO LESS THAN 6".
2. INSTALL FILTER MIRAFI 500X OR APPROVED EQUAL FILTER FABRIC BETWEEN RIP-RAP AND SUBGRADE.

OUTLET PROTECTION - RIP RAP

N.T.S.



NOTES:

REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL SUPERCEDE THIS DETAIL.

EROSION CONTROL MAT INSTALLATION

N.T.S.

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PROJECT MILESTONE

FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT: ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT: PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



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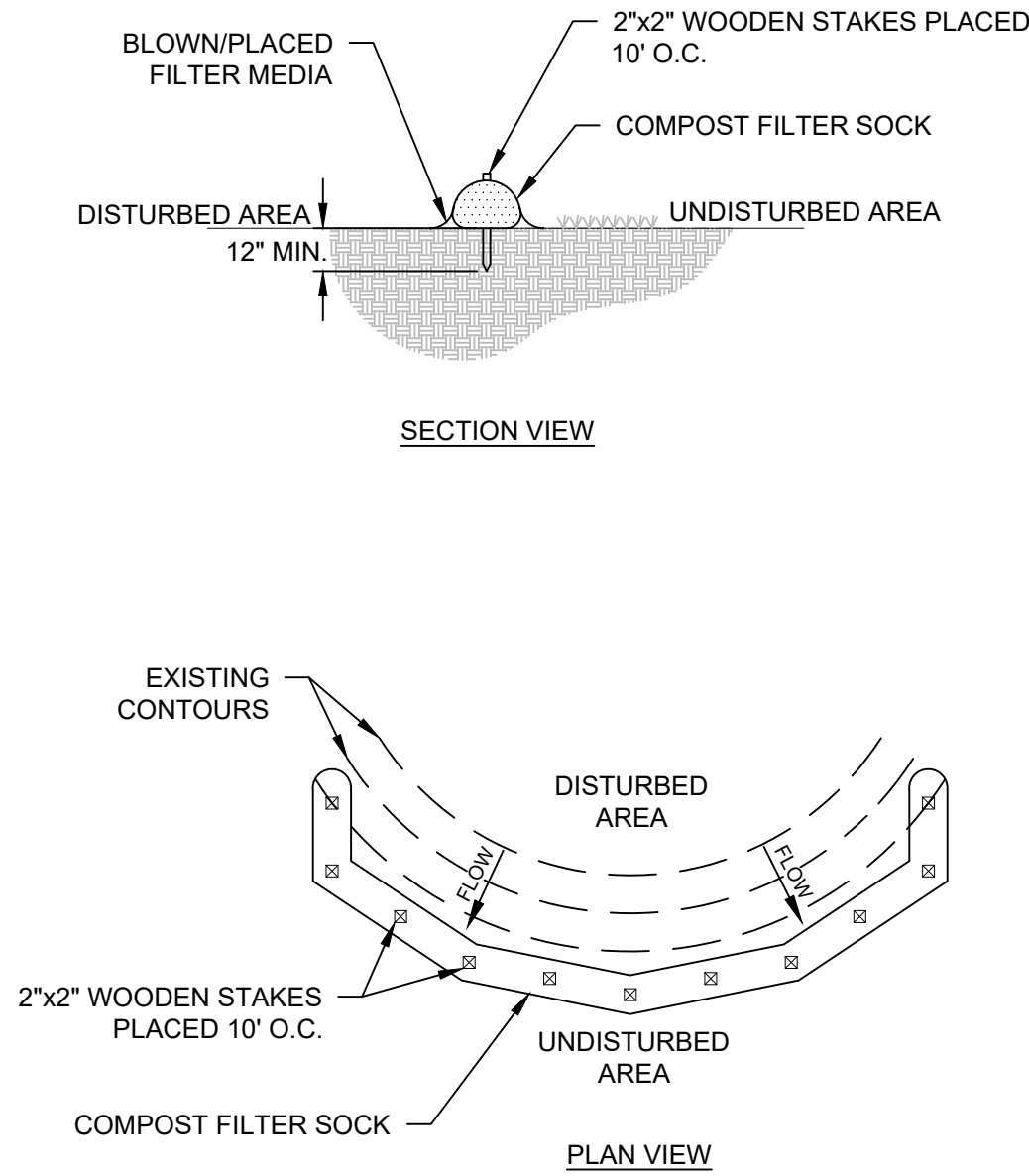
EROSION & SEDIMENT CONTROL DETAILS

DRAWING NUMBER

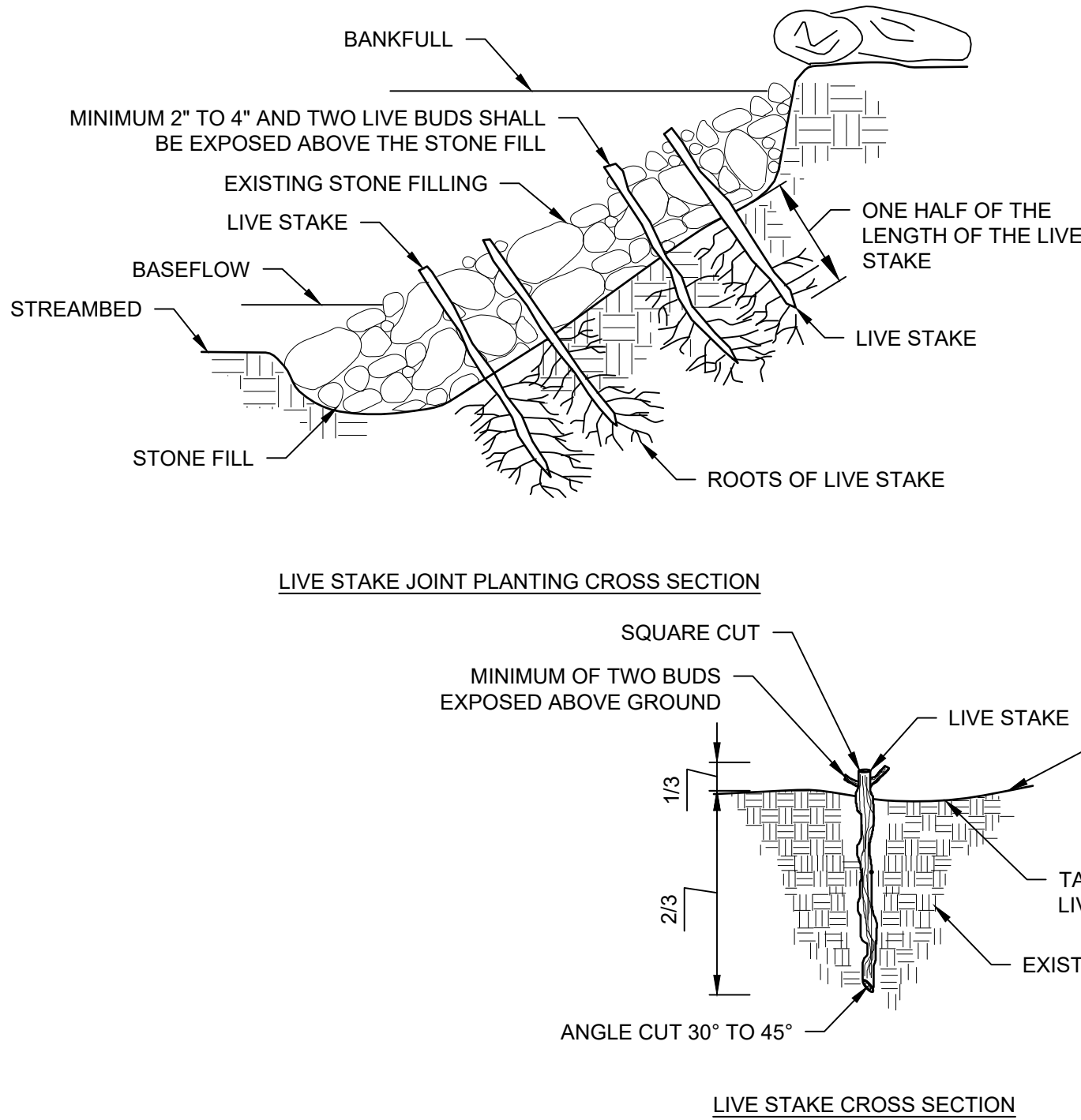
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PLANNING BOARD HTE# 21-00100006



- NOTES:
1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 5.1 OF NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. COMPOST SHALL MEET THE STANDARDS LISTED ON TABLE 5.2 OF NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
 2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE X.X OF NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
 3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
 4. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
 5. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

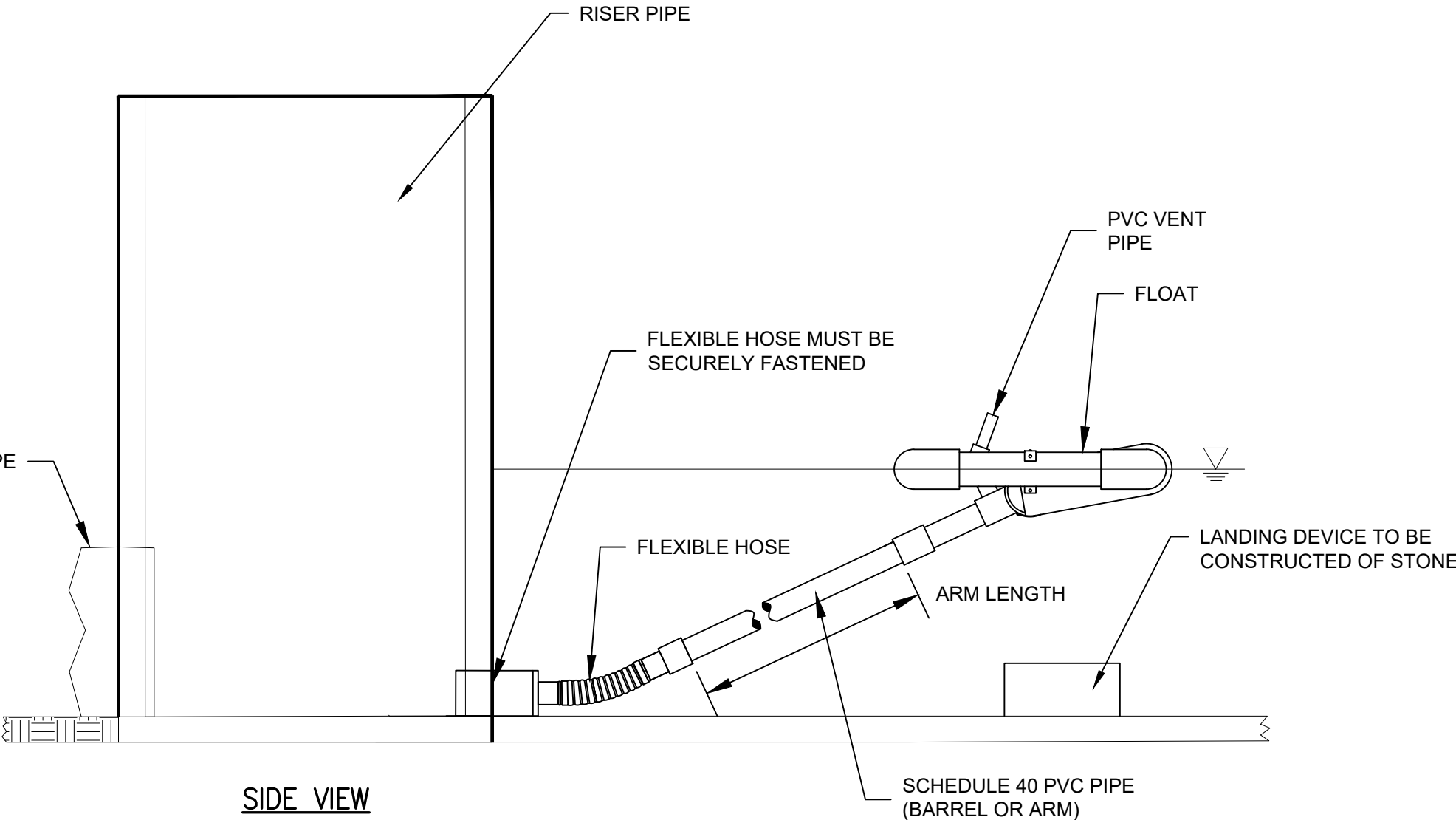
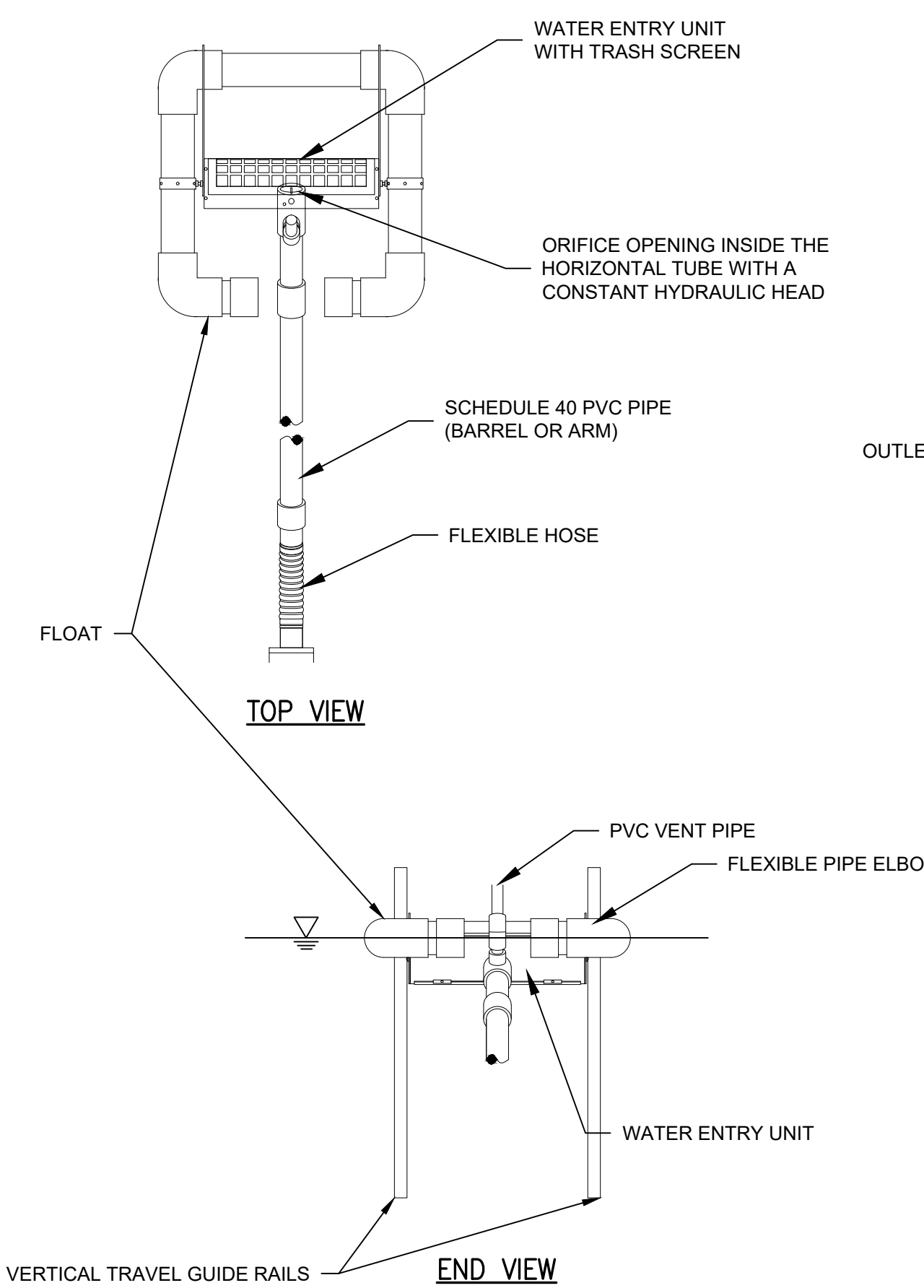
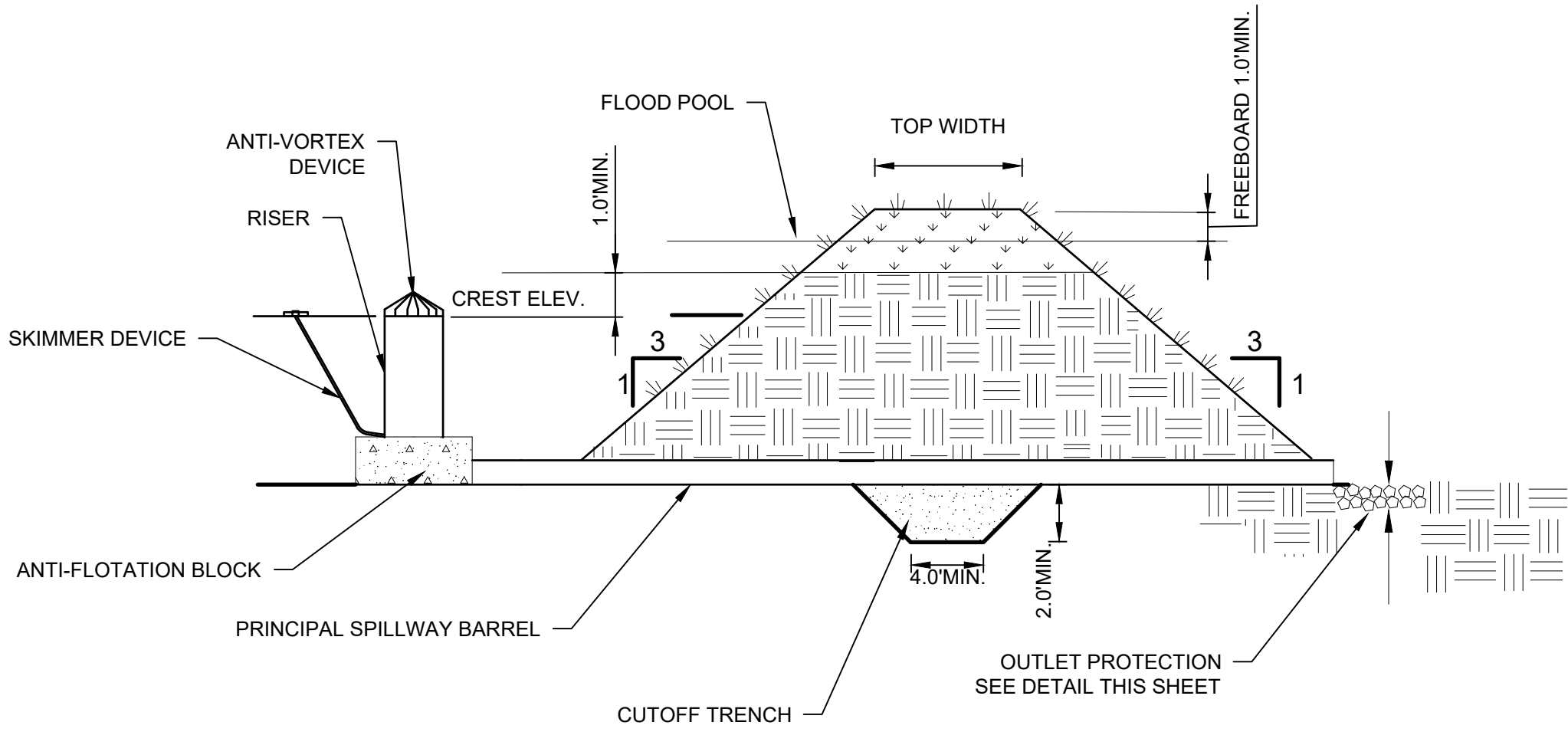


- NOTES:
1. CARE SHALL BE TAKEN NOT TO DAMAGE THE LIVE STAKES DURING INSTALLATION. THOSE DAMAGED SHALL BE LEFT IN PLACE AND SUPPLEMENTED WITH AN INTACT LIVE STAKE.
 2. THE LENGTHS OF LIVE STAKES DEPENDS UPON THE APPLICATION. THE LENGTH SHALL EXTEND THROUGH THE SURFACE OF THE STONE FILL AT LEAST HALF THE LENGTH SHALL BE INSERTED IN TO THE SOIL, BELOW THE STONE FILL.
 3. A PILOT HOLE IS REQUIRED TO ENSURE THAT THE LIVE STAKE IS NOT DAMAGED WHEN DRIVEN THROUGH THE STONE FILLING. ACCESS SHALL BE MADE THROUGH THE USE OF A DIBBLE BAR, OR SIMILAR TOOL TO WORK AN OPENING THROUGH THE ROCK LAYER.
 4. MINIMUM 2" TO 4" AND TWO LIVE BUDS OF THE LIVE STAKE SHALL BE EXPOSED ABOVE THE STONE FILLING.
 5. LIVE STAKES SHALL RANGE FROM 1" TO 4" IN DIAMETER AND BE FROM 5' TO 8' IN LENGTH.
 6. LIVE STAKES SHALL BE CUT TO A POINT ON THE BASAL END FOR INSERTION IN THE GROUND. USE A DEAD BLOW HAMMER TO DRIVE STAKES INTO THE GROUND. (HAMMER HEAD FILLED WITH SHOT OR SAND). A DIBBLE, IRON BAR, OR SIMILAR TOOL SHALL BE USED TO MAKE A PILOT HOLE TO PREVENT DAMAGING THE MATERIAL DURING INSTALLATION.
 7. WHEN POSSIBLE, TAMP SOIL AROUND LIVE STAKES.

COMPOST FILTER SOCK

N.T.S.

LIVE STAKE



- NOTES:
1. SKIMMER SHALL BE CONSTRUCTED WITH A 4 FOOT LONG FLEXIBLE PIPE ELBOW TO ALLOW FOR VERTICAL MOVEMENT OF THE SKIMMER FOR ITS DESIGNATED RANGE OF OPERATION.
 2. THE SKIMMER WILL BE PROVIDED WITH VERTICAL TRAVEL GUIDES AND A LANDING DEVICE CONSTRUCTED OF STONE.
 3. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.

SEDIMENT BASIN CHART											
BASIN NUMBER	BOTTOM ELEV. (FT)	TOP OF DAM ELEV. (FT)	TOP OF RISER ELEV. (FT)	INV. OUT (FT)	SEDIMENT STORAGE ZONE VOLUME REQ'D (FT³)	SEDIMENT STORAGE ZONE VOLUME PROVIDED (FT³)	SEDIMENT STORAGE ZONE ELEV. (FT)	DEWATERING ZONE VOLUME REQ'D (FT³)	DEWATERING ZONE VOLUME PROVIDED (FT³)	DEWATERING ZONE ELEV. (FT)	CLEANOUT ELEVATION (FT.)
1	10	14	-	-	5300	5300	-	19080	19080	-	-
2	6	14	11	6.5	15200	16370	7.5	54720	55416	11	6.75
3	6	14	11	6.5	33000	36859	7.5	118800	119226	11	6.75

- NOTES:
1. TEMPORARY SEDIMENT BASIN 1 CALCULATIONS HAVE BEEN SHOWN FOR CAPACITY VERIFICATION ONLY.
 2. BASIN 1 WILL BE GRADED OUT PER WQV POND DETAIL ON SHEET GR-14. ALL OUTLET STRUCTURES ARE TO BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION. EXCAVATION OF BASIN 1 TO FINAL GRADE ELEVATIONS SHALL OCCUR ONCE FINAL STABILIZATION HAS BEEN REACHED.
 3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
 4. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.

TEMPORARY SEDIMENT BASIN

N.T.S.

SKIMMER DEWATERING DEVICE							
BASIN NUMBER	WATER SURFACE ELEVATION (FT)	ARM LENGTH (FT)	ARM DIA. (in)	ORIFICE SIZE (in)	TOP OF LANDING DEVICE ELEVATION (FT)	FLEXIBLE HOSE LENGTH (in)	FLEXIBLE HOSE ATTACHMENT ELEVATION (FT)
2	11	16	5	5	7.5	12	6
3	11	16	7	7	7.5	12	6

SKIMMER DEWATERING DEVICE DETAILS

N.T.S.



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PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
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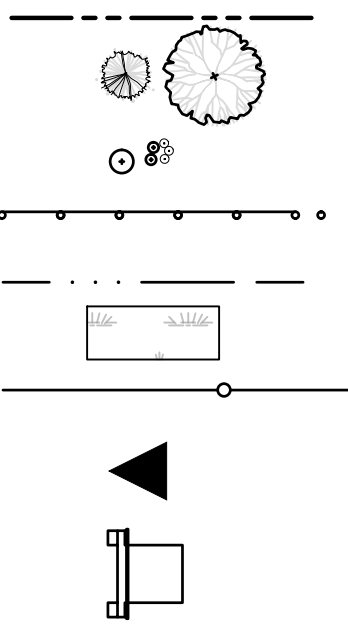
EROSION & SEDIMENT CONTROL DETAILS

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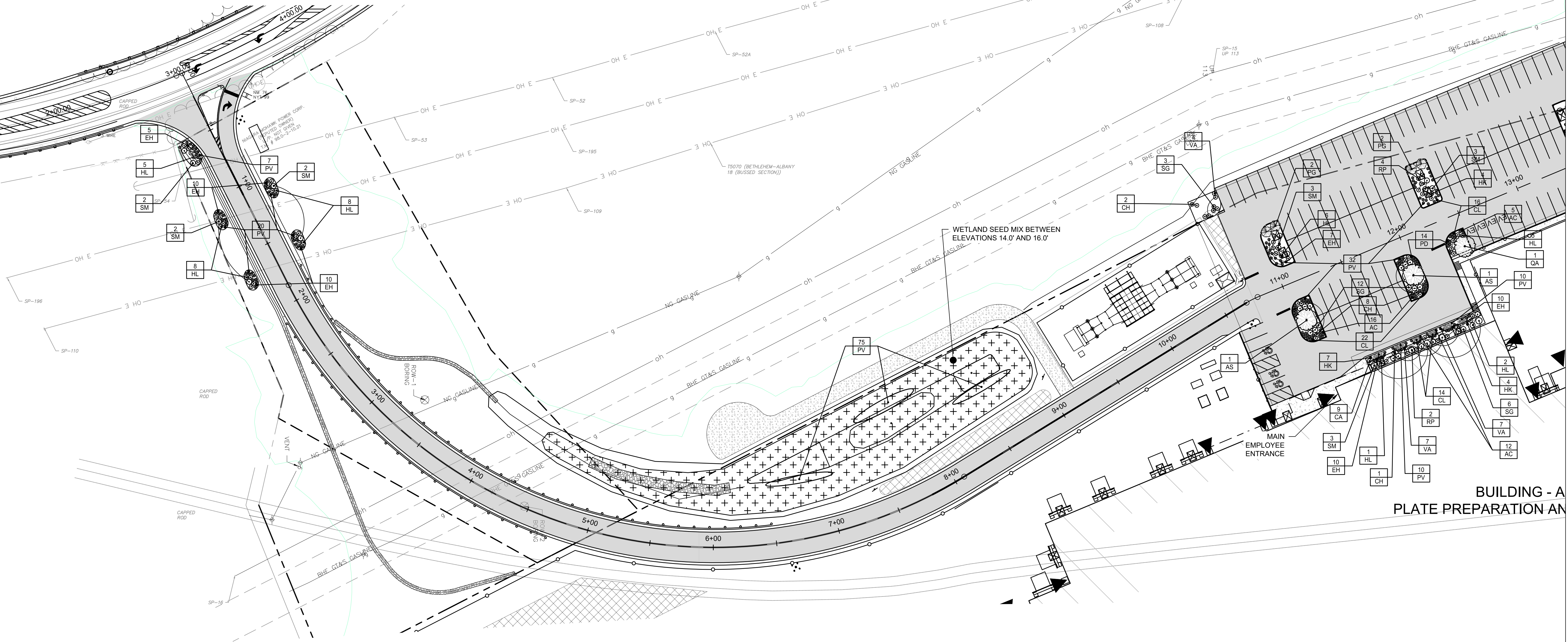
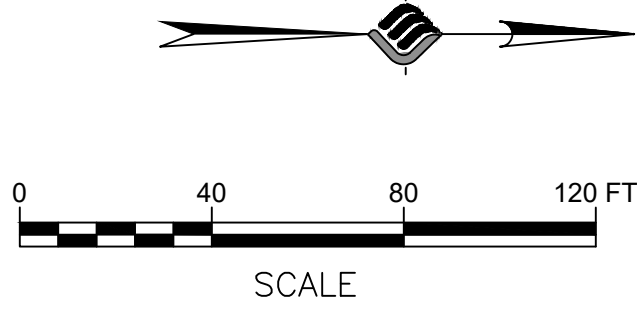
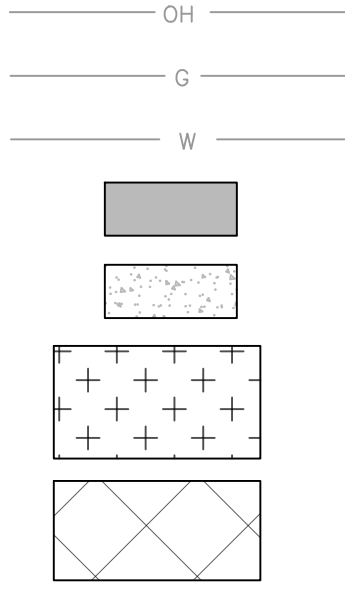
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LEGEND

PROPERTY LINE
PROPOSED TREES
PROPOSED SHRUBS/PLANTINGS
PROPOSED BOX BEAM GUIDE RAIL
DITCH CENTERLINE
WETLAND AREA
SECURITY FENCE
MAN DOORS
(WITH 5' X 5' CONCRETE LANDING PAD)
OVERHEAD DOORS



EXISTING OVERHEAD ELECTRIC
EXISTING GAS LINE
EXISTING WATERLINE
PROPOSED PAVEMENT
PROPOSED CONCRETE
PROPOSED WETLAND SEEDING AREA
MATERIAL STORAGE AREA



PLANTING NOTES

- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMAL GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. PROVIDE QUALITY, SIZE, GENUS, SPECIES, VARIETY OF TREES AND SHRUBS INDICATED, AND ROOT BALL SIZE COMPLYING WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK." ALL PLANTS SHOULD BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.
- PLANT SIZES: MEASURE TREES AND SHRUBS ACCORDING TO ANSI Z60.1 WITH BRANCHES AND TRUNKS OR CANES IN THEIR NORMAL POSITION. TAKE CALIPER MEASUREMENTS 6 INCHES ABOVE GROUND FOR TREES UP TO 4-INCH CALIPER SIZE. MEASURE MAIN BODY OF TREE OR SHRUB FOR HEIGHT AND SPREAD; DO NOT MEASURE BRANCHES OR ROOTS TIP-TO-TIP.
- ALL CONTAINER GROWN PLANTS SHALL SIZED ACCORDING TO ANSI Z60.1 FOR TYPE AND SIZE OF PLANT REQUIRED. PLANTS SHALL BE PREMIUM QUALITY, APPEAR 'FULL', OR 'HEAVY' WITHIN THEIR CONTAINER, AND BE REPRESENTATIVE OF THE CONTAINER SIZE SPECIFIED. PLANTS DEEMED TO BE SUBSTANDARD IN SIZE BY THE OWNERS REPRESENTATIVE WILL BE REJECTED.
- ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN UNLESS OTHERWISE NOTED ON PLANT LIST.
- TREES SHOULD BE FRESHLY DUG DURING THE SEASON OF PLANTING, MARCH 1ST TO MAY 1ST FOR SPRING PLANTING AND OCTOBER 15TH TO DECEMBER 15TH FOR FALL PLANTING. PLANTS KNOWN AS FALL DIG HAZARDS SHALL BE DUG IN THE SPRING ONLY.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- IN GENERAL, PLANT SPECIES SUBSTITUTIONS WILL NOT BE ACCEPTED. IF SPECIFIED MATERIAL IS NOT OBTAINABLE, CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY ALONG WITH PROPOSED SUBSTITUTION. ANY PROPOSED

- SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, SIZE, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.
- THE OWNERS REPRESENTATIVE RETAINS THE RIGHT TO INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. CONTRACTOR SHALL REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.
 - CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE OWNERS REPRESENTATIVE.
 - INSTALLED PLANTS SHALL BEAR THE SAME RELATIONSHIP TO PROPOSED GRADE AS THEY BORE TO PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
 - CONTRACTOR SHALL PROVIDE LONG LASTING, SLOW RELEASE STARTER FERTILIZER IN EACH PLANTING PIT FOR TREES, SHRUBS AND PERENNIALS.
 - ALL PLANT BEDS SHALL RECEIVE THREE INCHES (3") OF SHREDDED BARK MULCH. MULCH SHALL BE FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS. CONSISTING OF DOUBLE HAMMERED SHREDDED BARK MULCH COMPRISED OF EITHER HARDWOOD OR SOFTWOOD SHREDDED BARK. SHREDDED BARK MULCH SHALL NOT EXCEED 3" IN GREATEST DIMENSION, AND SHALL BE DARK BROWN IN COLOR.
 - PLANTS SHALL BE DELIVERED ONLY AS THEY CAN BE INSTALLED IN REASONABLE TIME. ALL PLANTS ARE SUBJECT TO INSPECTION AT DELIVERY BY THE OWNERS REPRESENTATIVE.
 - IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
 - MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL

- CONTINUE FOR A MINIMUM 30-DAY MONITORING PERIOD AFTER NOTIFICATION OF SUBSTANTIAL COMPLETION OF PLANTING, AND UNTIL FINAL ACCEPTANCE. MAINTENANCE INCLUDES PRUNING, WEEDING, WATERING, FERTILIZATION, AND RE-SEEDING AS NECESSARY.
- PROTECT PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS AND OPERATIONS OF OTHER CONTRACTORS AND TRADES. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.
 - ACCEPTANCE STANDARDS:
 - PLANTS SHALL BE FREE OF FROST CRACKS; SUN SCALD; DAMAGE DUE TO INSECTS, PESTS, AND DISEASE; STRUCTURAL DEFECTS; AND DAMAGE RESULTING FROM MACHINERY OR TOOLS. ALL PLANTS REGARDLESS OF THE SEASON OF REVIEW SHALL HAVE A MINIMUM OF 75 PERCENT HEALTHY, BALANCED BRANCHING STRUCTURE WITH A HEALTHY TERMINAL LEADER(S) WITH VIABLE TERMINAL BUD(S). TREES SHALL BE PLUMB AND SHOW NO SIGNS OF UNEVEN SETTLING OR LEANING.
 - LAWN AREAS SHALL HAVE A HEALTHY, UNIFORM STAND OF GRASS FREE OF WEEDS, SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90% OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5"X5"
 - CONTRACTOR SHALL REPLACE ALL PLANTS THAT ARE MORE THAN 25% DEAD OR, AS DETERMINED BY THE OWNERS REPRESENTATIVE, ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION. CONTRACTOR SHALL BEAR THE COST OF COMPLETE REPLACEMENT(S). REPLACEMENTS SHALL BE OF THE SAME SIZE AND SPECIES AS SPECIFIED ON THE PLANTING LIST.
 - GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL TO REMAIN ALIVE AND BE IN A HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF PLANTING WORK, AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY WORK.
 - GRASS SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH AOSA'S "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES. PROVIDE SEED MIXTURE COMPOSED OF SPECIES, PROPORTIONS AND MINIMUM PERCENTAGES OF PURITY, GERMINATION, AND MAXIMUM PERCENTAGE OF WEED

SEED, AS FOLLOWS:

COMMON NAME	PROPORTION BY WEIGHT	GERMINATION MINIMUM	PURITY MINIMUM
CREeping RED FESCUE	50%	85%	95%
OR CHEWINGS FESCUE			
KENTUCKY BLUEGRASS	25%	85%	90%
PERENNIAL RYE	25%	90%	90%

SIEVE % PASSING BY WEIGHT	MIN.	MAX.	CHEMICAL ANALYSIS
#10	100		PH RANGE
#20	78	95	ORGANIC MATTER
#40	67	87	MAGNESIUM
#60	48	78	PHOSPHORUS
#100	40	75	POTASSIUM
#200	28	63	SOLUBLE SALTS
#270	22	55	
.002	2	7	

PLANNING BOARD HTE# 21-00100006

McFarland Johnson
60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT: **ALBANY PORT DISTRICT COMMISSION**
ALBANY, NEW YORK
PROJECT: **PORT OF ALBANY EXPANSION SITE**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE
**LANDSCAPING PLAN
(1 OF 2)**

DRAWING NUMBER
LA-01
65 OF 69

LEGEND

PROPERTY LINE

PROPOSED TREES

PROPOSED SHRUBS/PLANTINGS

PROPOSED BOX BEAM GUIDE RAIL

DITCH CENTERLINE

WETLAND AREA

SECURITY FENCE

MAN DOORS
(WITH 5' X 5' CONCRETE LANDING PAD)

OVERHEAD DOORS

EXISTING OVERHEAD ELECTRIC

EXISTING GAS LINE

EXISTING WATERLINE

PROPOSED PAVEMENT

PROPOSED CONCRETE

PROPOSED WETLAND SEEDING AREA

MATERIAL STORAGE AREA

OH

G

W

PLANNING BOARD HTE# 21-00100006

EXISTING WETLAN

LANDS W/F
NIAGARA MOHAWK POWER CORP
L 2701, P 296
EAX-HR 98.00-2-10.21

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UP 125

SP-107

SP-14
UP 117

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WETLAND SEED MIX BETWEEN
ELEVATIONS 14.0' AND 16.0'

17+00

16+00

15+00

14+00

13+00

12+00

11+00

10+00

9+00

8+00

7+00

6+00

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4+00

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



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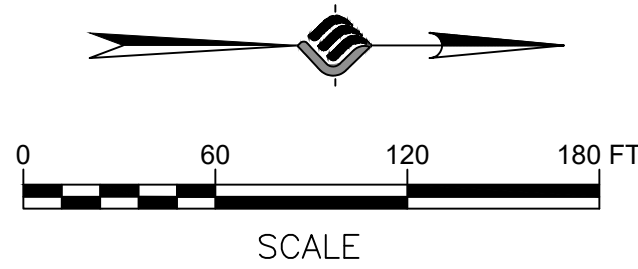
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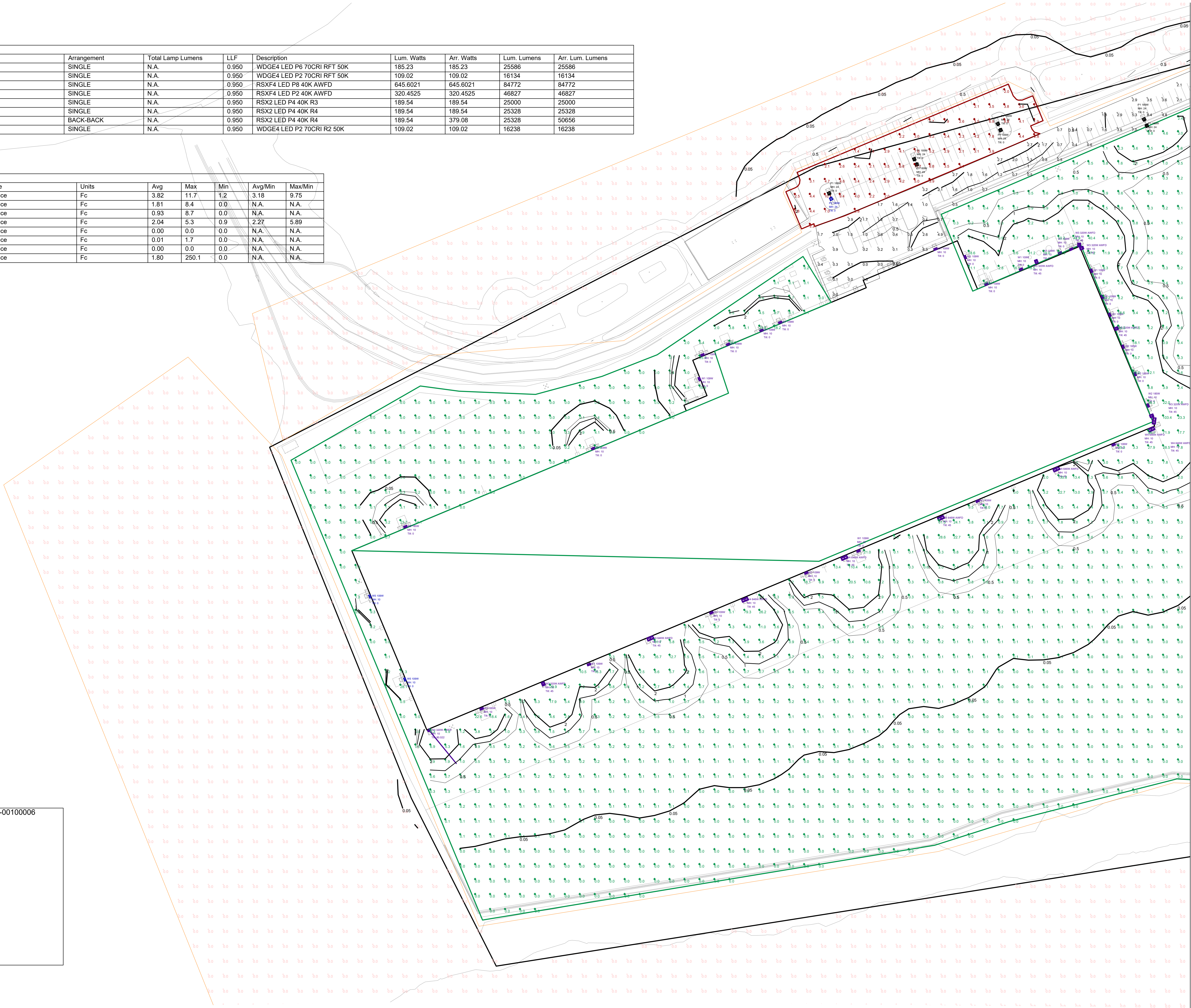
287+

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	Lum. Watts	Arr. Watts	Arr. Lum. Lumens
	29	W2 185W	SINGLE	N.A.	0.950	WDGE4 LED P6 70CRI RFT 50K	185.23	185.23	25586
	46	W1 109W	SINGLE	N.A.	0.950	WDGE4 LED P2 70CRI RFT 50K	109.02	109.02	16134
	26	W4 646W AWFD	SINGLE	N.A.	0.950	RSXF4 LED P8 40K AWFD	645.6021	645.6021	84772
	16	W3 320W AWFD	SINGLE	N.A.	0.950	RSXF4 LED P2 40K AWFD	320.4525	320.4525	46827
	9	P1 189W	SINGLE	N.A.	0.950	RSX2 LED P4 40K R3	189.54	189.54	25000
	3	P2 189W	SINGLE	N.A.	0.950	RSX2 LED P4 40K R4	189.54	189.54	25328
	1	P2 189W B2B	BACK-BACK	N.A.	0.950	RSX2 LED P4 40K R4	189.54	379.08	50656
	2	W5 109W	SINGLE	N.A.	0.950	WDGE4 LED P2 70CRI R2 50K	109.02	109.02	16238

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
Bldg A Parking Lot_Planar	ILLUMINANCE	Fc	3.82	11.7	1.2	3.18	9.75	
Bldg A Side Lots and Drive_Planar	ILLUMINANCE	Fc	1.81	8.4	0.0	N.A.	N.A.	
Bldg B Parking Lot_Planar	ILLUMINANCE	Fc	0.93	8.7	0.0	N.A.	N.A.	
Drive Lanes in front of Bldg B_P	ILLUMINANCE	Fc	2.04	5.3	0.9	2.27	5.89	
Light Spill - East	ILLUMINANCE	Fc	0.00	0.0	0.0	N.A.	N.A.	
Light Spill Areas_Planar	ILLUMINANCE	Fc	0.01	1.7	0.0	N.A.	N.A.	
Wharf Area_Planar	ILLUMINANCE	Fc	0.00	0.0	0.0	N.A.	N.A.	
Yard & Bldg Surroundings_Planar	ILLUMINANCE	Fc	1.80	250.1	0.0	N.A.	N.A.	



PLANNING BOARD HTE# 21-00100006






McFarland Johnson
60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE		
FINAL DESIGN PLANS		
NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

PROJECT:
**ALBANY, NEW YORK
PORT OF ALBANY EXPANSION SITE**

DRAWN	BFD
DESIGNED	BFD
CHECKED	AJF
SCALE	AS SHOWN
DATE	05/10/2022
PROJECT	18641.00



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

DRAWING TITLE

LIGHTING PLAN (1 OF 2)

DRAWING NUMBER

LT-01



PROJECT MILESTONE

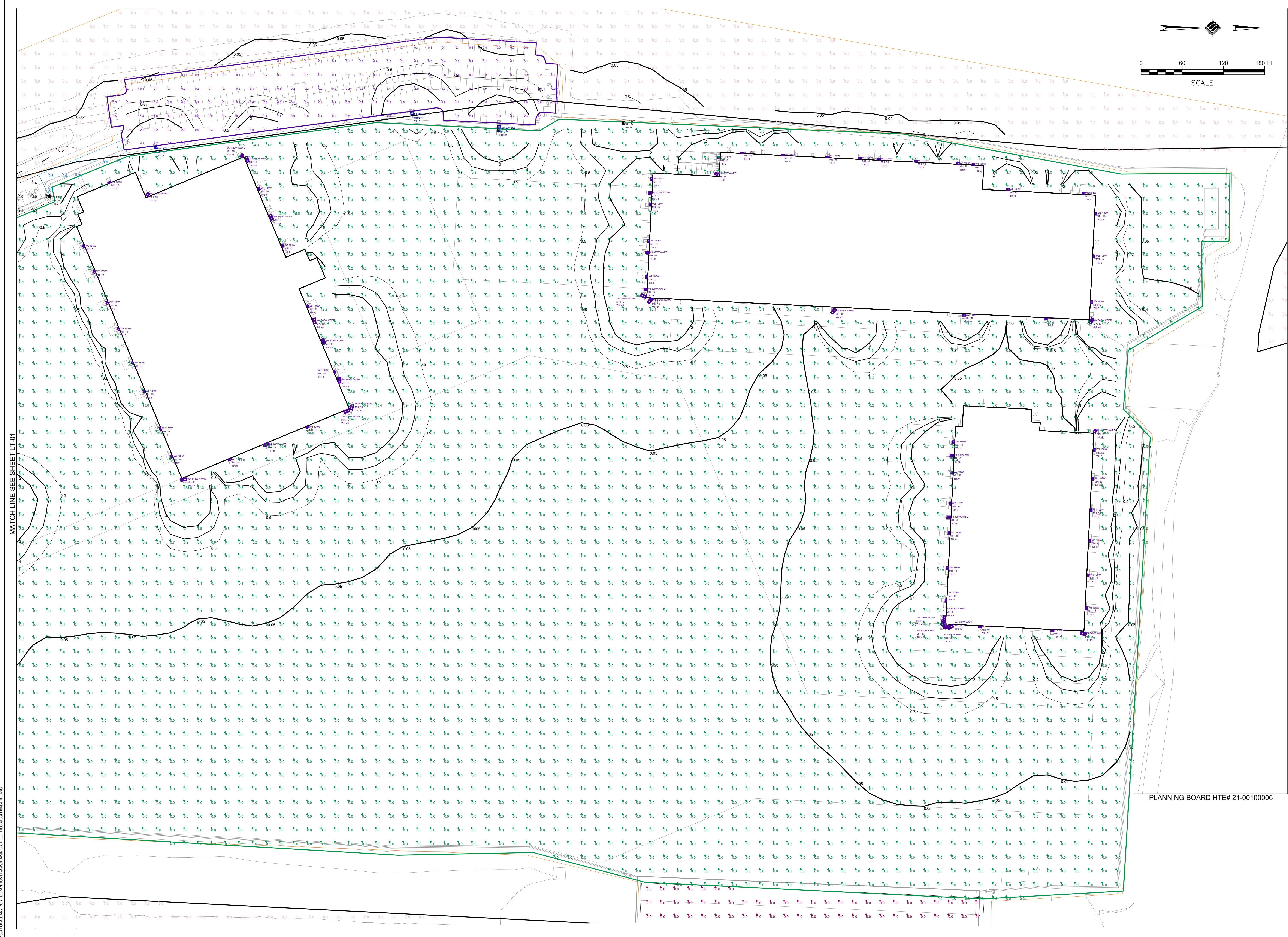
FINAL DESIGN PLANS

CLIENT:	ALBANY PORT DISTRICT COMMISSION
	ALBANY, NEW YORK
PROJECT:	PORT OF ALBANY EXPANSION SITE

RAWING TITLE

RAWING NUMBER

8 OF 69





McFarland Johnson
60 RAILROAD PLACE
SUITE 402
SARATOGA SPRINGS, NEW YORK 12866
P:518-580-9380 F:518-580-9383
SaratogaROM@mjinc.com

PROJECT MILESTONE
FINAL DESIGN PLANS

NO.	DATE	DESCRIPTION
1	05/20/22	TOWN COMMENTS
3	06/17/22	TOWN COMMENTS

CLIENT:
ALBANY PORT DISTRICT COMMISSION

ALBANY, NEW YORK

PROJECT:
PORT OF ALBANY EXPANSION SITE

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	05/10/2022
PROJECT	18641.00



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT OR SUPERVISORY CONTROL OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

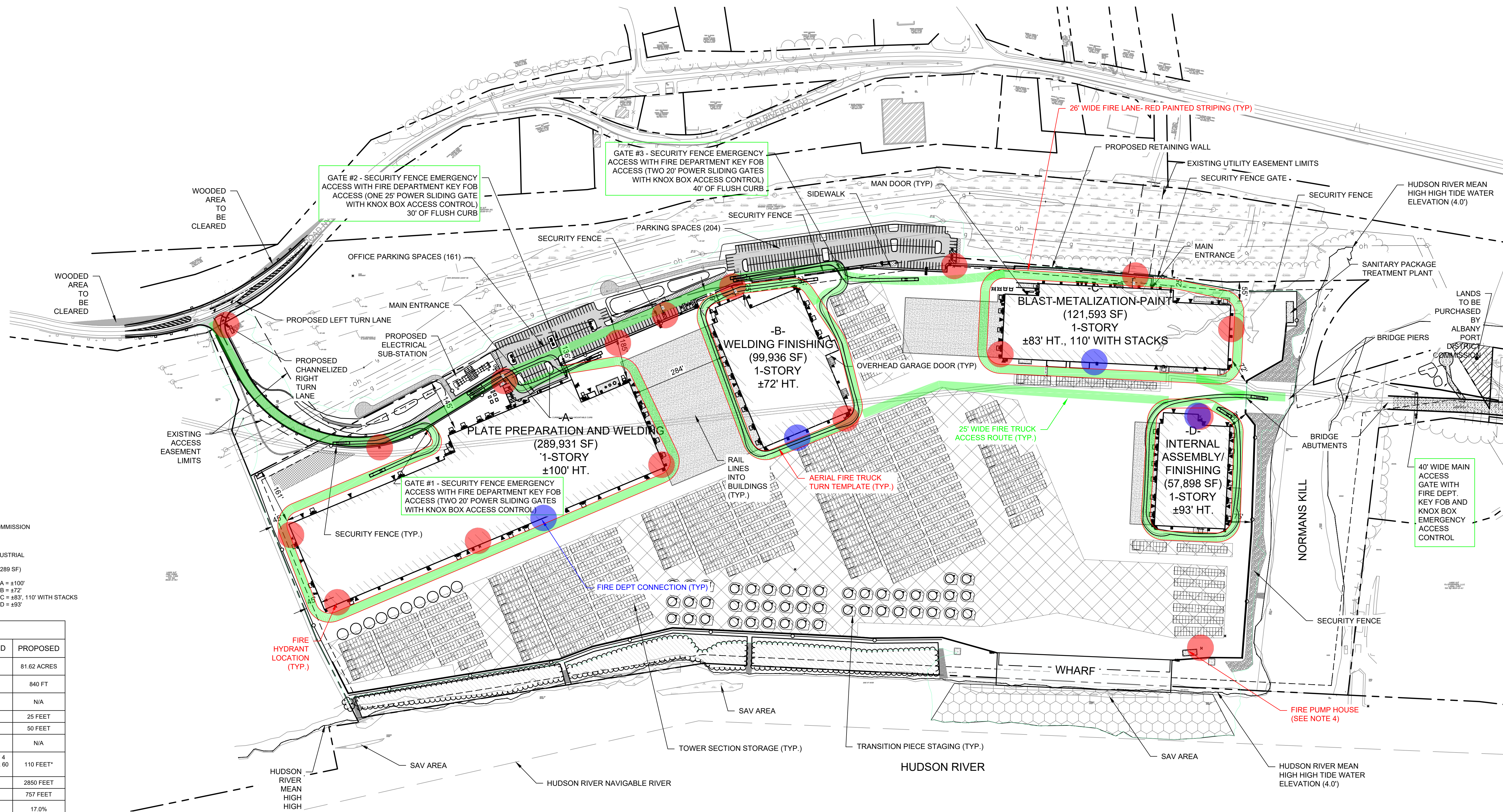
DRAWING TITLE

FIRE ACCESS PLAN

DRAWING NUMBER

FA-01

69 OF 69



PROJECT DATA

1. APPLICANT / LAND OWNER:
ALBANY PORT DISTRICT COMMISSION
108 SMITH BOULEVARDS
ALBANY, NEW YORK 12205
2. EXISTING ZONING: HEAVY INDUSTRIAL
3. LOT AREA: 81.62 ACRES (3,555,289 SF)
4. BUILDING HEIGHT: - BUILDING A = ±100'
- BUILDING B = ±72'
- BUILDING C = ±83', 110' WITH STACKS
- BUILDING D = ±93'

SITE DATA

FEATURE	REQUIRED	PROPOSED
MINIMUM LOT SIZE, NONRESIDENTIAL	5 ACRES	81.62 ACRES
MINIMUM FRONT YARD, FROM RIGHT-OF-WAY	100 FEET	840 FT
MINIMUM FRONT YARD, FROM CENTER LINE	125 FEET	N/A
MINIMUM SIDE YARD	25 FEET	25 FEET
MINIMUM REAR YARD	50 FEET	50 FEET
MINIMUM HIGHWAY FRONTAGE	150 FEET	N/A
MAXIMUM HEIGHT	LESSER OF 4 STORIES OR 60 FEET	110 FEET*
MINIMUM LOT DEPTH	200 FEET	2850 FEET
MINIMUM LOT WIDTH	150 FEET	757 FEET
MAXIMUM LOT COVERAGE	30%	17.0%

* WILL REQUEST A VARIANCE

ZONING:

EXISTING: ±81.62 ACRES HEAVY INDUSTRIAL

PROPOSED: ±81.62 ACRES HEAVY INDUSTRIAL

TAX ACCOUNT NUMBERS: 98-00-2-10-23
98-01-2-1

* ENTIRE SITE IS WITHIN 100-YR FLOODPLAIN

PARKING:

1 SPACE FOR EACH 2 EMPLOYEES ON MAXIMUM WORKING SHIFT.

TOTAL EMPLOYEES = 550

REQUIRED: 275 TOTAL SPACES REQUIRED

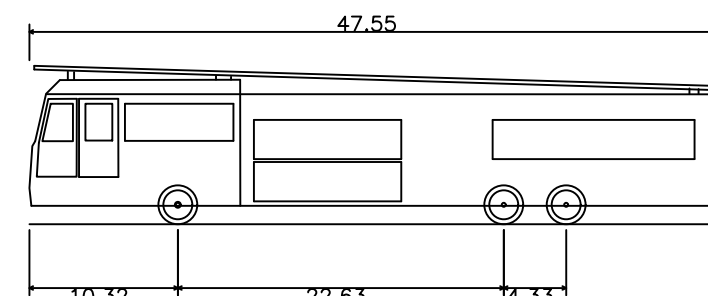
PROVIDED: THE LARGEST SHIFT INCLUDES 180 EMPLOYEES WITH THE LARGEST SHIFT CHANGE INVOLVING 320 EMPLOYEES. INDIVIDUAL BUILDING PARKING DEMANDS FROM MARMEN WELCON HAVE BEEN PROVIDED BELOW:

BUILDING A = 168 SPACES
BUILDING B = 87 SPACES
BUILDING C & D = 100 SPACES TOTAL
TOTAL OPERATOR REQUESTED SPACES = 355
349 TOTAL SPACES PROVIDED

ADA SPACES REQUIRED:
PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

REQUIRED (349 SPACE LOT): 8 SPACES (6 STANDARD & 2 VAN)
FOR TOTAL PARKING 301-400 SPACES

PROVIDED (349 SPACE LOT): 9 SPACES (7 STANDARD & 2 VAN)



Elsmere Fire Truck
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Track Width
Lock-to-lock time
Max Wheel Angle

47.550ft
8.000ft
11.000ft
1.280ft
7.690ft
4.00s
48.70°

NOTE:

1. THE SURFACE OF THE FIRE APPARATUS ACCESS ROAD SHALL BE ASPHALT, CONCRETE OR A SURFACE APPROVED TO HANDLE AN 80,000 LBS. LADDER TRUCK IN ALL WEATHER CONDITIONS AND BE MAINTAINED YEAR-ROUND (INCLUDING SNOW PLOWING).
2. ALL FIRE APPARATUS ACCESS ROADS SHALL BE ADEQUATELY MARKED SHOWING THE LIMITS OF THE ROADWAY TO PREVENT STORAGE.
3. BUILDING MOUNTED FIRE DEPARTMENT RADIO COVERAGE ANTENNA(S) MAY BE REQUIRED ON SITE. REFER TO ITEM 9.X OF THE TOWN OF BETHLEHEM SITE PLAN APPROVAL DOCUMENT CERTIFICATION NO. 304 DATED MAY, 17, 2022.
4. THE PROPOSED FIRE PUMP SYSTEM SHALL MEET THE FOLLOWING DESIGN REQUIREMENTS:
 - DESIGN FOR ADEQUACY OF 2000 GPM TO THE SITE FROM THESE PUMPS FOR A COMBINATION OF FIRE PROTECTION AND FIREFIGHTING WATER.
 - PUMPS ARE PROVIDED STANDBY POWER DUE TO POWER OUTAGES.
 - DESIGNED TO ENSURE WATER IS AVAILABLE AND PUMPS ARE OPERABLE FOR ALL POTENTIAL WATER LEVELS AND PROTECTION AGAINST ICE AND DEBRIS.
 - THE PUMPS SHOULD BE ACCESSIBLE FOR MAINTENANCE AND INSPECTION IN ALL WEATHER CONDITIONS AND TO BE ABOVE-GRADE.
 - A CHECK VALVE OR POST INDICATOR VALVE SHALL BE ON THE DISCHARGE SIDE OF THE PUMPS WITH A FIRE HYDRANT LOCATED JUST AFTER SUCH VALVE TO BE ABLE TO MANUALLY PUMP THE SYSTEM IN CASE OF COMPLETE PUMP FAILURE.

LEGEND

PROPERTY LINE	---
EASEMENT LIMITS	---
DITCH CENTERLINE	---
ROADSIDE SWALE	---
BUILDING SETBACK	---
OVERHEAD DOORS	▢
MAN DOORS	◀
PROPOSED BUILDING	▨
EXISTING BUILDING	▩

PROPOSED BUILDING FOOTPRINT	▨
MATERIAL STORAGE AREAS	▩
WETLAND AREA	▧
WHARF DREDGING AREA	▦
PAVEMENT AREA	▤
CONCRETE AREA	▥
RIP-RAP WATER EMBANKMENT STABILIZATION	▦
FIRE HYDRANT LOCATION	●
FIRE DEPARTMENT CONNECTION	●

