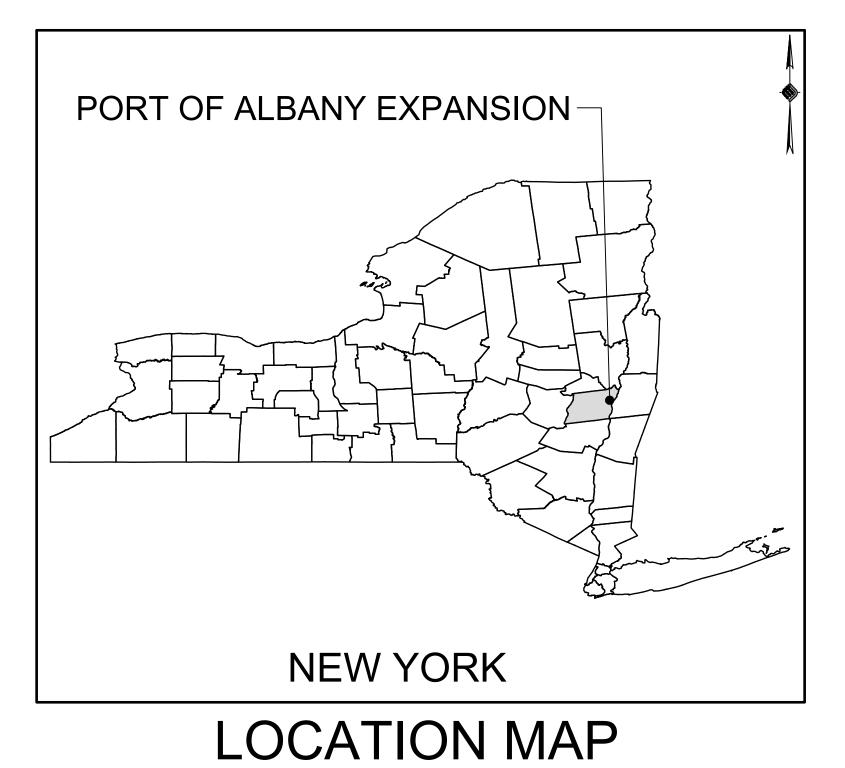
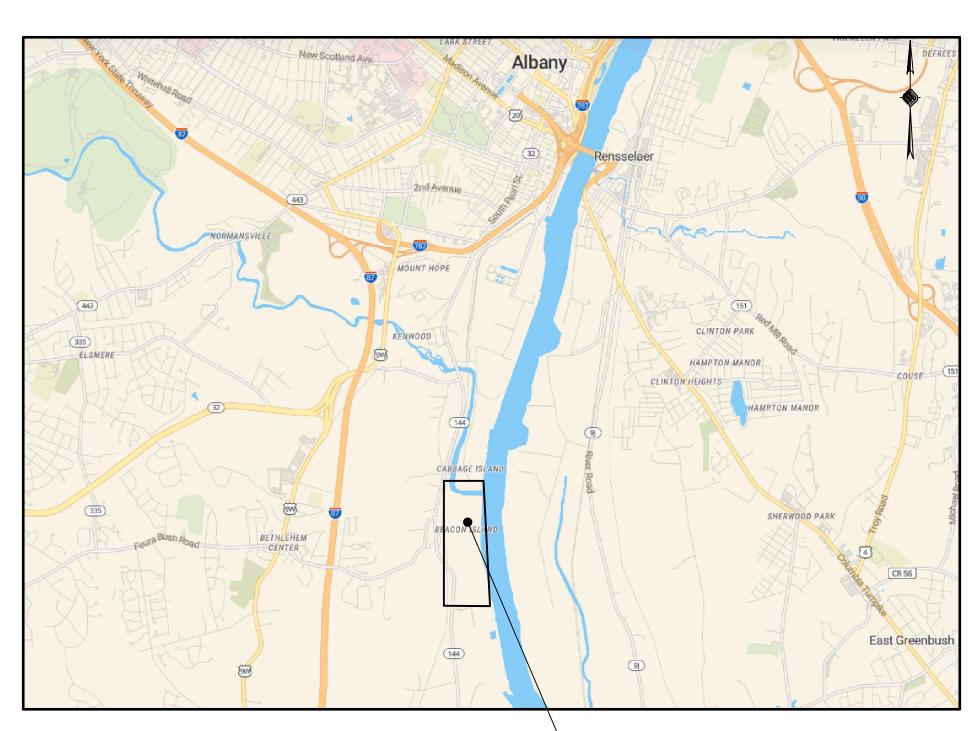
# ALBANY PORT DISTRICT COMMISSION PORT OF ALBANY EXPANSION SITE



# FINAL DESIGN PLANS JANUARY 2022

# TOWN OF BETHLEHEM ALBANY COUNTY **NEW YORK**



**PREPARED FOR:** 



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

PREPARED BY:



60 RAILROAD PLACE, SUITE 402 SARATOGA SPRINGS, NEW YORK 12866

MCFARLAND JOHNSON PROJECT # 18641.00

## PORT OF ALBANY EXPANSION -

## VICINITY MAP

SEALED	ADAM J. FROSINO 088870		REVIEW
PE_DATE	JANUARY 2022		SET
OF A LICENSED SURVEYOR, TO	) PROFESSIONAL ENGINEER ) ALTER AN ITEM IN ANY WA	R, ARCHITECT, LAN Y. IF AN ITEM BEAF	CTING UNDER THE DIRECTIO DSCAPE ARCHITECT, OR LAN RING THE STAMP OF A NEER, ARCHITECT, LANDSCA

, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE

ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION

THE DATE OF SUCH

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 NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JANUARY 8, 2015 AND ANY SUBSEQUENT REVISIONS.
- 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, MAKE, 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 CONTRACTOR 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 REP. IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE OWNERS REP. 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 NYSDOT HIGHWAY.
- 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 MHHW 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).

#### SEQUENCE OF CONSTRUCTION

- PRIOR TO LAND DISTURBING ACTIVITIES.
- DRAWINGS.
- DRAWINGS.
- TO COMMENCEMENT OF GROUND DISTURBANCE.
- AREAS WHERE EARTHWORK WILL BE PERFORMED.
- SEED AND MULCH PER PLANS.
- SITE GRADING.
- WITHIN 7 DAYS.
- TREATED BY APPROPRIATE EROSION AND SEDIMENT CONTROL DEVICES.
- PLANS.
- SPECIFICATIONS.
- 15. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
- DISTURBED AREAS.
- TEMPORARY EROSION AND SEDIMENT CONTROLS.

1. HOLD A PRE-CONSTRUCTION MEETING WITH PROJECT MANAGER, OPERATOR'S ENGINEER CONTRACTORS & SUB-CONTRACTORS, AND REPRESENTATIVES OF THE TOWN OF BETHLEHEM (MS4)

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

4. INSTALL PERIMETER CONTROLS AND INLET PROTECTION AT THE LOCATIONS SHOWN ON THE

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

6. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL ONLY BE DONE IN

7. STRIP AND STOCKPILE TOPSOIL, INSTALL PERIMETER EROSION CONTROL AROUND STOCKPILES,

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

9. STABILIZE ALL AREAS IDLE IN EXCESS OF 7 DAYS IN WHICH CONSTRUCTION WILL NOT COMMENCE

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

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

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

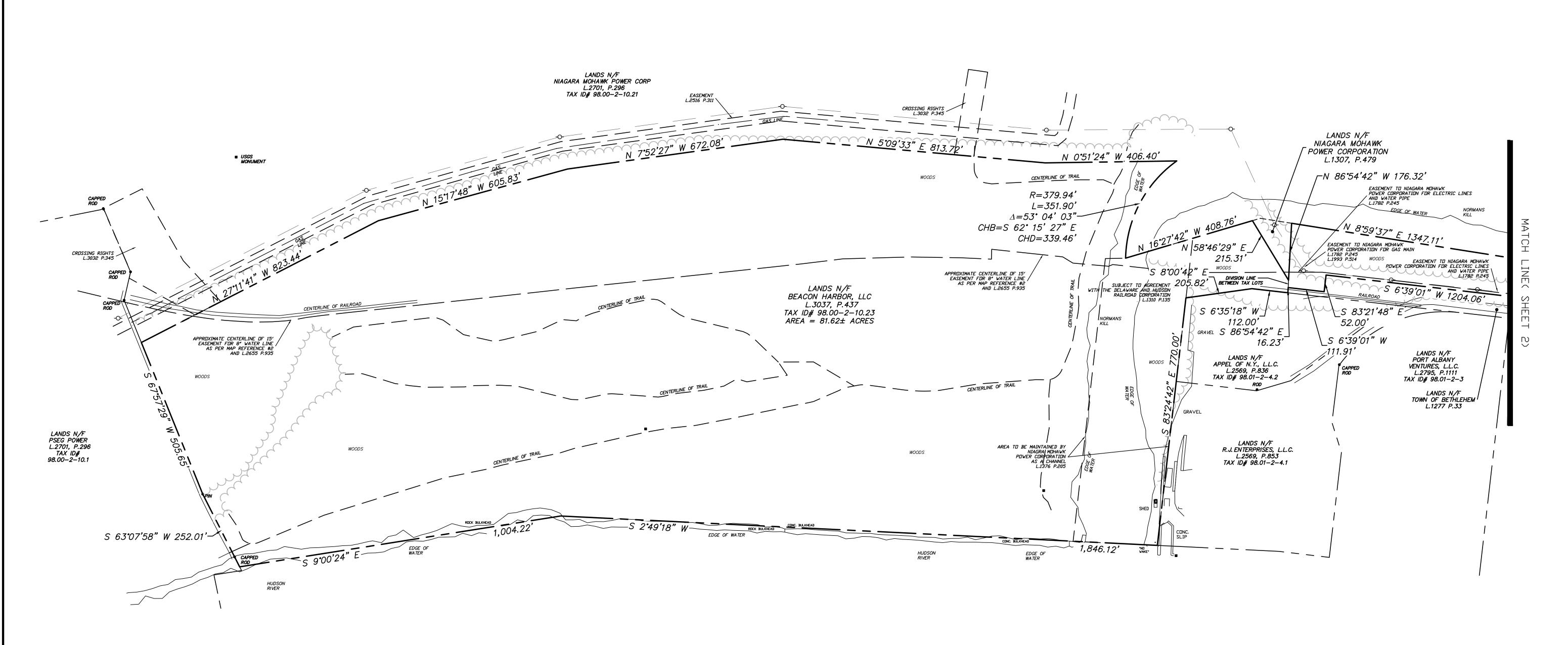
16. INSTALL ASPHALT SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.

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

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

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SARATOG P:518-5 Sara PROJECT M FINAL	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         INO.       DATE         DESCRIPTION         INO.       DATE         INO.       DATE         INO.       INO.         INO.       INO.					
ALBANY PORT DISTRICT COMMISSION	ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE				
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CHECKED		AJF				
SCALE DATE	J	1"=40' ANUARY 2022				
1	FOR REVIEW NOT FOR CONSTRUCTION					
ARE ACTING UN PROFESSIONAL ARCHITECT, OR WAY. IF AN IT PROFESSIONAL ARCHITECT, LAN SHALL STAMP T "ALTERED BY" OF SUCH ALTE THE ALTERATION <b>DRAWING T</b>	DER THE DIR ENGINEER, LAND SURVEY EM BEARING IS ALTERED IDSCAPE ARC HE DOCUMEN FOLLOWED BY RATION, AND 	DR ANY PERSON, UNLESS THEY ECT DIRECTION OF A LICENSED ARCHITECT, LANDSCAPE OR, TO ALTER AN ITEM IN ANY THE STAMP OF A LICENSED , THE ALTERING ENGINEER, CHITECT, OR LAND SURVEYOR T AND INCLUDE THE NOTATION T HEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF				
	IUMBER					



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: I. North 2713'40" West, 823.44 feet to a point; thence

2.North15°19'47"West, 605.83feettoapoint; 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°29'41" 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°53'38" East, 352.00 feet to a point; thence

South 66°41'22" East, 18.13 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 67'55'30" West, 505.65 feet to the Point or Place of Beginning.

#### MAP REFERENCES:

1. MAP ENTITLED "ALTA/ACSM LAND TITLE SUREY (URBAN CLASS) FOR ALBANY STEAM STATION, LANDS TO BE CONVEED 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, 1952 AND LAST REVISED JUNE 27, 1989. 3. MAP ENTITLED "BOUNDARY SURVEY SHOWING LANDS N/F OF OG REAL ESTATE DEVELOPMENT, LLC" BY WSP

SELLS, DATED SEPTEMBER 16, 2009.

<u>GENERAL NOTES:</u> 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

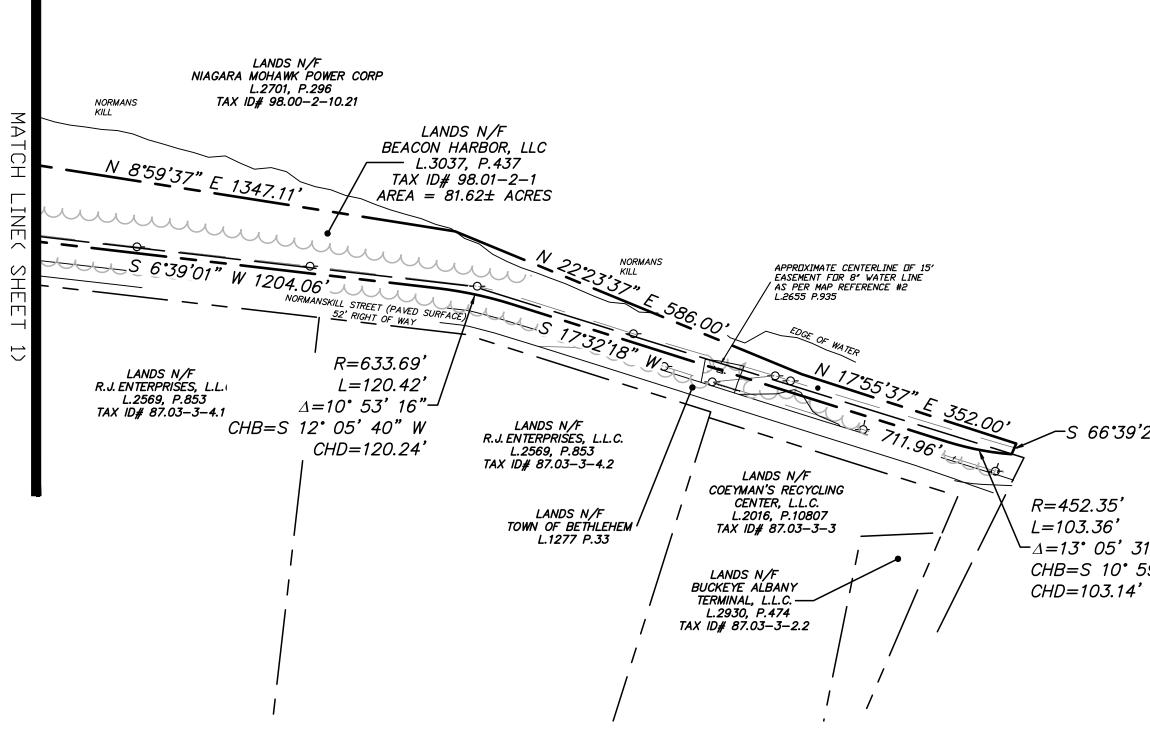
PHYSICALLY EVIDENT ON THE PREMISES AT THE TIME OF THE SURVEY. 4. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS AND RESTRICTIONS OF RECORD.

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

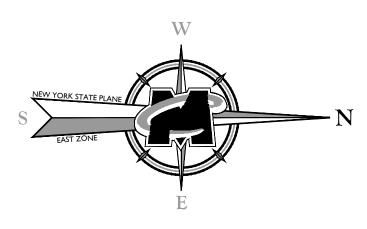
TO NAVD 1988 VIA THE APPLICATION OF GEOID MODEL 12B. 7. NO EVIDENCE OF RECENT EARTH MOVING WORK BUILDING CONSTRUCTION, OR BUILDING ADDITIONS WERE OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

8. NO WETLAND DELINEATION OBSERVED IN THE PROCESS OF CONDUCTING FIELDWORK.



150	(	)	1!	50	300	
	SC	CALE :	1" = 15	50'		

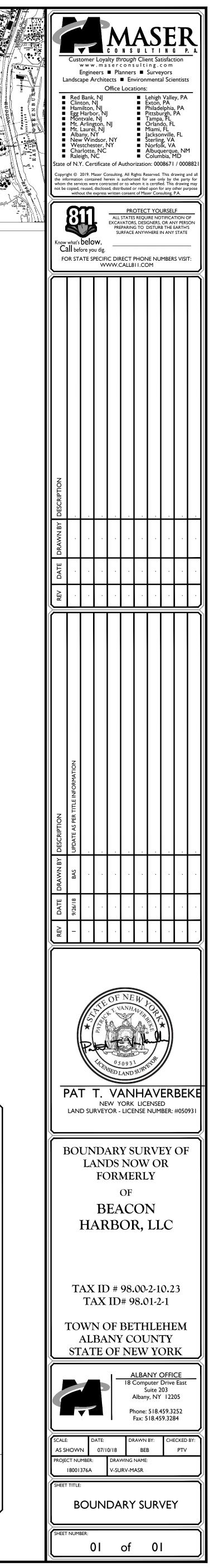


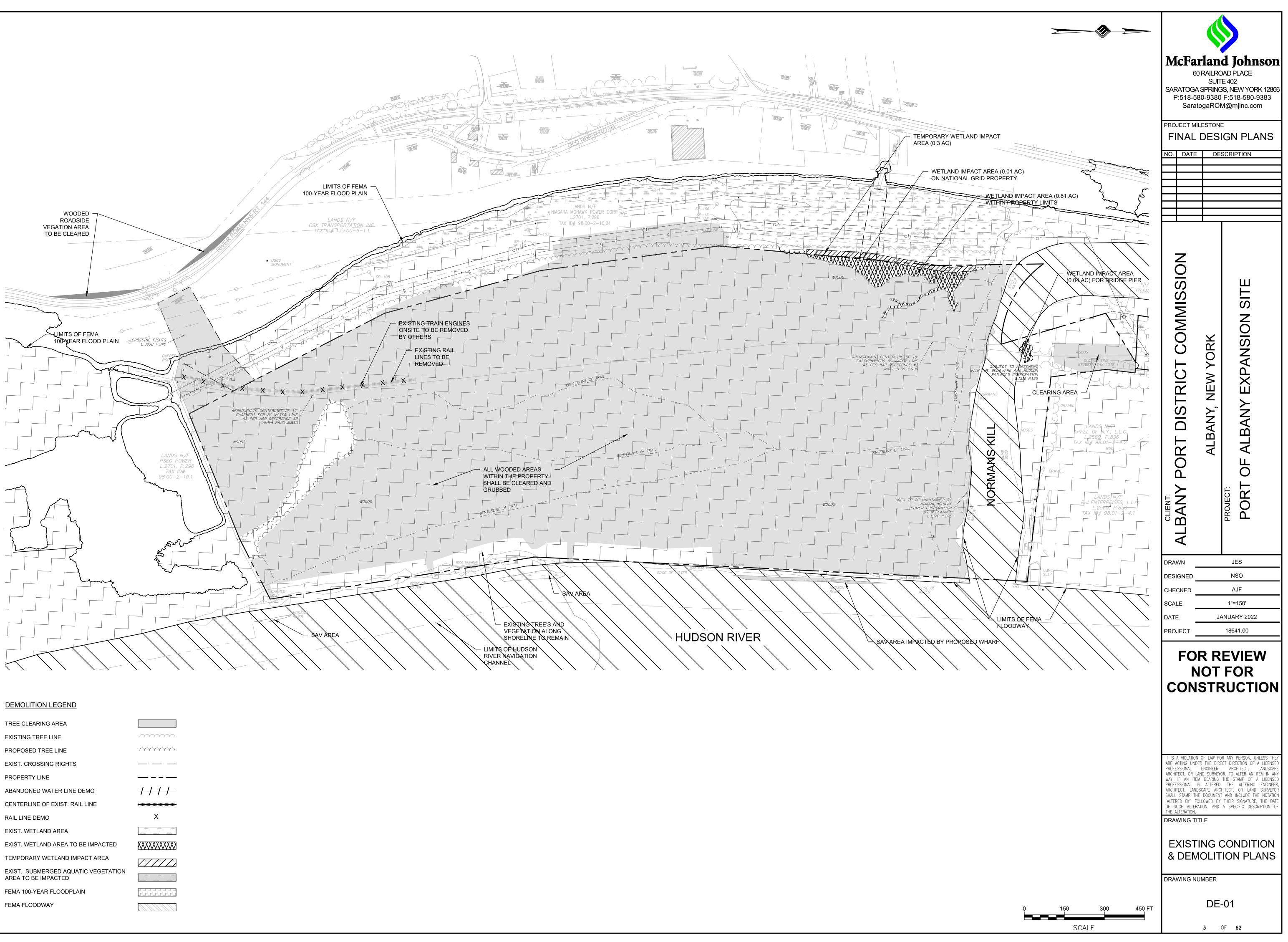


-S 66°39'23" E 18.13'

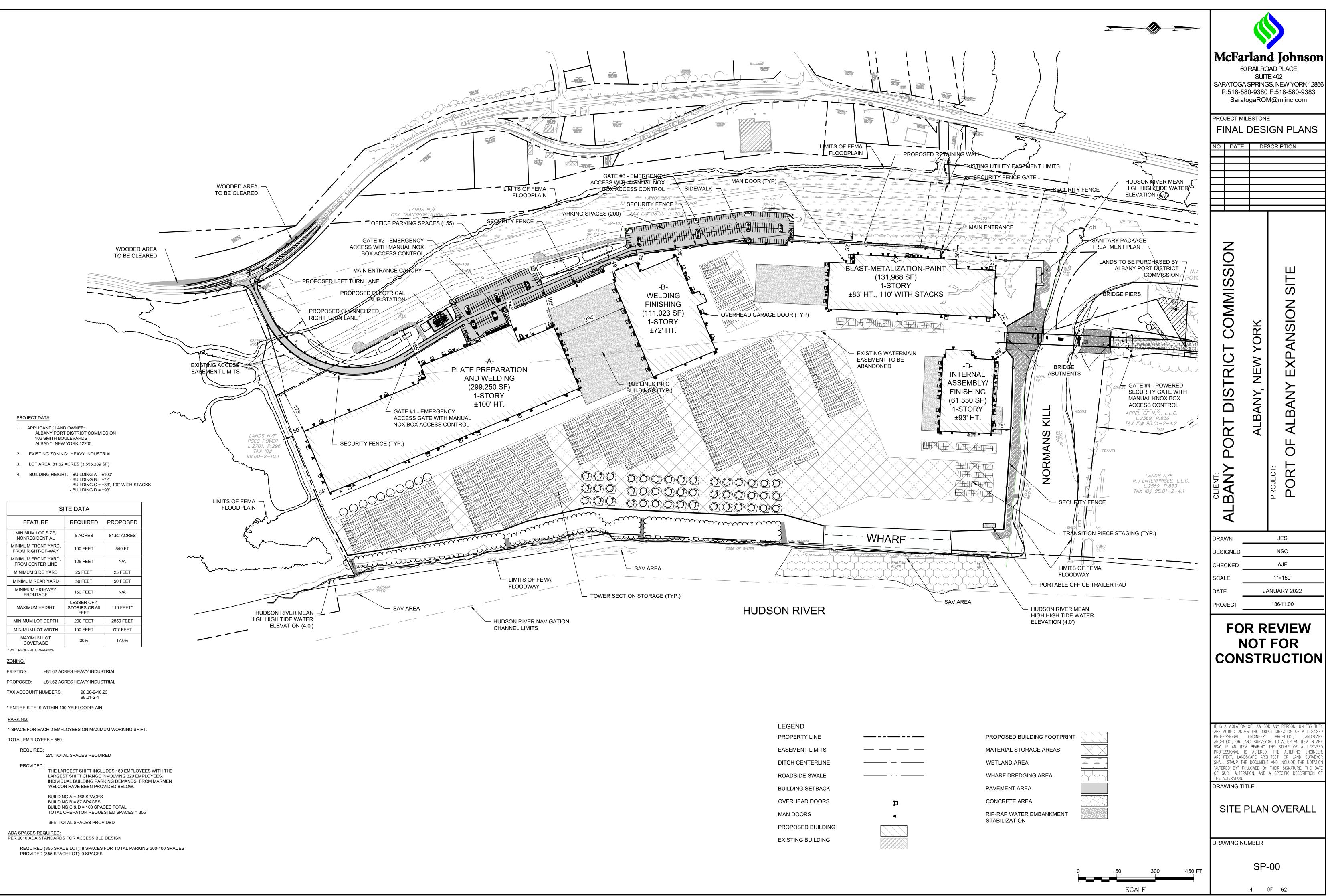
R=452.35' L=103.36' *\*\_∆=13° 05′ 31″ CHB=S 10° 59' 33" W

DEPRESSED CURB       ↓       POLE MOUNTED LIGH         CHAIN FENCE       ↓       POLE MOUNTED LIGH         WETLAND LINE       ↓       ↓         WUNICIPAL BOUNDARY       ↓       TRANSFORMER         .       TREELINE       ↓       ↓         WINCIPAL BOUNDARY       ↓       TRANSFORMER         .       TREELINE       ↓       ↓         WATER MANHOLE       ↓       ↓       ↓         WATER VALVE       ↓       ↓       ↓         Ø       JAJOR CONTOUR       ↓       ↓         AJOR CONTOUR       ↓       ↓       ↓         ✓       AJOR CONTOUR       ↓       ↓         × G 29.0       SPOT ELEVATION       ↓       ↓         × G 29.0       SPOT ELEVATION       ↓       ↓         ∨/G C ABLE TV LINE       ↓       ↓       ↓         U/G CABLE TV LINE       ↓       ↓       ↓         U/G CABLE TV LINE       ↓       ↓       ↓         U/G ELECTRIC LINE       ↓				
2+00       FR       13+00       LINE OR BASELINE       TREE         RIGHT OF WAY LINE       PROPERTY LINE       FRAFFIC FLOW         PROPERTY LINE       EDGE OF PAVEMENT       Image: Constant of the constant of		LEGEN	D	
IN INCORRIGHT OF WAY LINE       IREE         PROPERTY LINE       EDGE OF PAVEMENT         URB LINE       EDGE OF PAVEMENT         URB LINE       IRAFFIC FLOW         DEPRESSED CURB       POLE MOUNTED LIGH         CHAIN FENCE       OUTILITY POLE         WETLAND LINE       IRAFFIC FLOW         WETLAND LINE       IRAFFIC FLOW         WETLAND LINE       OUTILITY POLE         WETLAND LINE       OUTILITY POLE         WETLAND LINE       IRAFFIC FLOW         WATER MANHOLE       FIRE HYDRANT         OWW WATER VALVE       OCV GAS VALVE         OUMMARKED MANHOLE       OCV GAS VALVE         OVERHEAD WINC CONTOUR       STORM INLET TYPE         X 6 29.0       SPOT ELEVATION         X 6 29.0       SPOT ELEVATION         X 6 29.0       SPOT ELEVATION         V/G ELECTRIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STOM. DBL. INLET TYPE         V/G ELECTRIC LINE       STOM. DBL. INLET TYPE				WETLAND MARKER
PROPERTY LINE         EDGE OF PAVEMENT         CURB LINE         DEC BAVE         DEC BAVE         URB LINE         DEPRESSED CURB         CHAIN FENCE         CHAIN FENCE         WETLAND LINE         MUNICIPAL BOUNDARY         TREELINE         ELECTRICAL MANHOLE         WATER MANHOLE         OUNMARKED MANHOLE         OUNALE MEANTON         X G 29.0<	2+00 Fi 13+00			TREE
EDGE OF PAVEMENT CURB LINE       IMAR         AG       MAK         DEPRESSED CURB       TRAFFIC FLOW         CHAIN FENCE       POLE MOUNTED LIGH         WETLAND LINE       UTILITY POLE         WETLAND LINE       GUY WIRE         MUNICIPAL BOUNDARY       TRANSFORMER         TREELINE       ELECTRICAL MANHOLE         WATER MANHOLE       FIRE HYDRANT         OW       WATER MANHOLE         WATER MANHOLE       SANITARY MANHOLE         OL       JANINAGE MANHOLE         OK       GAS VALVE         OKANAGE MANHOLE       OK         OK       GAS VALVE         OKANARE MANHOLE       OK         OKANARE MANHOLE       STORM INLET TYPE         STORM INLET TYPE       STORM INLET TYPE         V/G ELECTRIC LINE       STOM INLET TYPE         U/G ELE			<u> </u>	= ROADWAY SIGNS
Image: Curb Line       TRAFFIC SIGNAL POL         Image: Curb Line       DEPRESSED CURB         Image: Curb Line       POLE MOUNTED LIGH         Image: Curb Line       WeTLAND LINE         Image: Curb Line       Image: Curb Line <th></th> <th></th> <th></th> <th>TRAFFIC FLOW</th>				TRAFFIC FLOW
B.C.       MACK       DEPRESSED CURB       TRAFFIC SIGNAL POL         CHAIN FENCE       POLE MOUNTED LIGH         WETLAND LINE       GUY WIRE         MUNICIPAL BOUNDARY       TRANSFORMER         . TREELINE       FIRE HYDRANT         WETLAND LINE       GUY WIRE         MUNICIPAL BOUNDARY       TRANSFORMER         . TREELINE       FIRE HYDRANT         WITTER MANHOLE       GV GAS VALVE         OU       UNMARKED MANHOLE         OU       UNMARKED MANHOLE         OU       SANITARY MANHOLE         OU       DAAINAGE MANHOLE         OU       DAAINAGE MANHOLE         OU       SANITARY MANHOLE         OU       DAAINAGE MANHOLE         OU       DAAINAGE MANHOLE         OU       DAAINAGE MANHOLE         OU       SANITARY MANHOLE         OU       DAAINAGE MANHOLE         OU       DAAINAGE MANHOLE         OU       DAAINAGE MANHOLE         OVER HEAD WARE       SANITARY CLEANOUR         V/G FIBER OPTIC LINE       STORM INLET TYPE         V/G FIBER OPTIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STOM DBL. INLET TYPE         U/G ELECTRIC LINE       STM. DBL. INL	FACE		σ	MAILBOX
CHAIN FENCE       Image: Chain FEN	D.C. BACK			TRAFFIC SIGNAL POLE
WETLAND LINE       O       UTILITY POLE         WUNICIPAL BOUNDARY       TREELINE       GUY WRE         ITREELINE       ELECTRICAL MANHOLE       ITRANSFORMER         WATER MANHOLE       FIRE HYDRANT         WATER MANHOLE       SANITARY MANHOLE         O       DRAINAGE MANHOLE       OGV         GAS VALVE       SANITARY MANHOLE       OGV         O       DRAINAGE MANHOLE       OGV         SANITARY MANHOLE       OGV       GAS VALVE         O       DRAINAGE MANHOLE       OGV         SANITARY MANHOLE       OGV       GAS VALVE         VING CONTOUR       SANITARY CLEANOUT         74       MINOR CONTOUR       STORM INLET TYPE         × G 29.0       SPOT ELEVATION       STORM INLET TYPE         × BC 29.0       BOTTOM OF CURB ELEV.       STORM INLET TYPE         U/G FIBER OPTIC LINE       U/G FIBER OPTIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       U/G ELECTRIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STORM INLET TYPE       STORM INLET TYPE         U/G ELECTRIC LINE       U/G ELECTRIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       SAN. SEWER MAIN       STORM PIPE         SAN. SEWER MAIN       STORM			¢	POLE MOUNTED LIGHT
MUNICIPAL BOUNDARY			-0-	UTILITY POLE
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				GUY WIRE
€       ELECTRICAL MANHOLE       FIRE DEP1. CONNEC         Water MANHOLE       FIRE HYDRANT         Water MANHOLE       FIRE HYDRANT         OW       WATER VALVE         OW       WATER VALVE         OW       GGV GAS VALVE         OW       SANITARY MANHOLE         O       DRAINAGE MANHOLE         SANJER       SOUTOUR         STORM INLET TYPE         V/G FIBER OPTIC LINE         U/G FIBER OPTIC LINE         U/G ELECTRIC LINE         U/G ELECTRIC LINE         V/G ELECTRIC LINE         SAN. SEWER LATERAL         SAN. SEWER LATERAL				TRANSFORMER
WATER MANHOLE       WATER MANHOLE         Image: Constraint of the second se	E		♥ FDC	FIRE DEPT. CONNECTION
TELEPHONE MANHOLE       OGW       WATER VALVE         OGV       GAS VALVE         UNMARKED MANHOLE       OGV       GAS VALVE         UNMARKED MANHOLE       OGV       GAS VALVE         OD       DRAINAGE MANHOLE       OCO       SANITARY CLEANOUT         0       DRAINAGE MANHOLE       OCO       SANITARY CLEANOUT         75       MAJOR CONTOUR       OCO       SANITARY CLEANOUT         74       MINOR CONTOUR       STORM INLET TYPE         × G 29.0       SPOT ELEVATION       STORM INLET TYPE         × BC 29.0       BOTTOM OF CURB ELEV.       STORM INLET TYPE         U/G GABLE TV LINE       STORM INLET TYPE       STORM INLET TYPE         U/G FIBER OPTIC LINE       U/G ELECTRIC LINE       STM. DBL. INLET TYPE         U/G ELECTRIC LINE       U/G ELECTRIC LINE       STM. DBL. INLET TYPE         U/G ELECTRIC LINE       U/G ELECTRIC LINE       STM. DBL. INLET TYPE         U/G ELECTRIC LINE       U/G ELECTRIC LINE       HEADWALL         SAN. SEWER LATERAL       SAN. SEWER MAIN       STORM INLET TYPE         STORM PIPE       STORM PIPE       STM. DBL. INLET TYPE         DEC. = DEPRESSED CURB       FF = FINISH FLOOR       MHWL = MEAN HIM         GC = TOP OF CURB       UV = UNKNOWN VALVE	ă		Å	FIRE HYDRANT
OCV       GAS VALVE         SANITARY MANHOLE       SANITARY CLEANOUT         OCO       SANITARY CLEANOUT         Top OF CONTOUR       STORM INLET TYPE         X BC 29.0       BOTTOM OF CURB ELEV.         U/G CABLE TV LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STM. DBL. INLET TYPE         OVERHEAD WIRE       FLARED END SECTION         WATER MAIN       SAN. SEWER LATERAL         SAN. SEWER LATERAL       SAN. SEWER MAIN         STORM PIPE       STORM PIPE			0 ₩٧	WATER VALVE
SANITARY MANHOLE SANITARY MANHOLE DRAINAGE MANHOLE DRAINAGE MANHOLE DRAINAGE MANHOLE AJOR CONTOUR 74 MINOR CONTOUR 74 MINOR CONTOUR 74 MINOR CONTOUR 74 MINOR CONTOUR 75 74 MINOR CONTOUR 75 75 76 76 77 77 MINOR CONTOUR 76 77 77 MINOR CONTOUR 77 MINOR CONTOUR 77 77 MINOR CONTOUR 77 MINOR CONTOUR 77 77 77 77 77 77 77 77 77 7			0 GV	GAS VALVE
Image: Drainage manhole       Image: Converse in monomen         75       Major contour         74       Minor contour         x 6 29.0       SPOT ELEVATION         x Tc 29.0       TOP OF CURB ELEV.         x BC 29.0       BOTTOM OF CURB ELEV.         U/G CABLE TV LINE       STORM INLET TYPE         U/G FIBER OPTIC LINE       STORM INLET TYPE         U/G FIBER OPTIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STM. DBL. INLET TYPE         U/G AS MAIN       SAN. SEWER LATERAL         SAN. SEWER LATERAL       SAN. SEWER MAIN         STORM PIPE       STORM PIPE         D.C. = DEPRESSED CURB       FF = FINISH FLOOR         UV = UNKNOWN VALVE       MHWL = MEAN HI         WATERLIN       MH = MANHOLE			000	SANITARY CLEANOUT
75       MAJOR CONTOUR       CAPPED REBAR/IROL         74       MINOR CONTOUR       STORM INLET TYPE         × G 29.0       SPOT ELEVATION       STORM INLET TYPE         × TC 29.0       TOP OF CURB ELEV.       STORM INLET TYPE         × BC 29.0       BOTTOM OF CURB ELEV.       STORM INLET TYPE         U/G CABLE TV LINE       U/G FIBER OPTIC LINE       STORM INLET TYPE         U/G TELEPHONE LINE       U/G ELECTRIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STM. DBL. INLET TYPE       STM. DBL. INLET TYPE         OVERHEAD WIRE       WATER MAIN       STM. DBL. INLET TYPE         GAS MAIN       SAN. SEWER LATERAL       STM. DBL. INLET TYPE         SAN. SEWER MAIN       STORM PIPE       FF = FINISH FLOOR       MHWL = MEAN HIL         D.C. = DEPRESSED CURB       FF = FINISH FLOOR       MHWL = MEAN HIL       WATERLIN         D.C. = DEPRESSED CURB       FF = FINISH FLOOR       MHWL = MEAN HIL         WA TERLIN       MH = MANHOLE       MLWL = MEAN HIL	ă		0	CONCRETE MONUMENT
74       MINOR CONTOUR       STORM INLET TYPE         × 6 29.0       SPOT ELEVATION       STORM INLET TYPE         × TC 29.0       TOP OF CURB ELEV.       STORM INLET TYPE         × BC 29.0       BOTTOM OF CURB ELEV.       STM. DBL. INLET TYPE         U/G CABLE TV LINE       U/G TELEPHONE LINE       STORM INLET TYPE         U/G TELEPHONE LINE       U/G ELECTRIC LINE       STM. DBL. INLET TYPE         V/G ELECTRIC LINE       V/G ELECTRIC LINE       STM. DBL. INLET TYPE         OVERHEAD WIRE       WATER MAIN       STM. DBL. INLET TYPE         GAS MAIN       SAN. SEWER LATERAL       STM. DBL. INLET TYPE         SAN. SEWER MAIN       STORM PIPE       HEAD WALL         D.C. = DEPRESSED CURB       FF = FINISH FLOOR       MHWL = MEAN HI         WA TER MAIN       TOP OF CURB       UV = UNKNOWN VALVE       MHWL = MEAN HI         WA TERLIN       MH = MANHOLE       MLWL = MEAN LOW	e		$\bullet$	CAPPED REBAR/IRON PI
× G 29.0       SPOT ELEVATION         × TC 29.0       TOP OF CURB ELEV.         × BC 29.0       BOTTOM OF CURB ELEV.         U/G CABLE TV LINE       STORM INLET TYPE         U/G FIBER OPTIC LINE       STORM INLET TYPE         U/G TELEPHONE LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STORM INLET TYPE         OVERHEAD WIRE       STM. DBL. INLET TYPE         WATER MAIN       SAN. SEWER LATERAL         SAN. SEWER LATERAL       SAN. SEWER MAIN         STORM PIPE       STORM PIPE				
× TC 29.0       TOP OF CURB ELEV.       STORM INLET TYPE         × BC 29.0       BOTTOM OF CURB ELEV.       STM. DBL. INLET TYPE         U/G CABLE TV LINE       U/G FIBER OPTIC LINE       STM. DBL. INLET TYPE         U/G TELEPHONE LINE       U/G TELEPHONE LINE       STM. DBL. INLET TYPE         U/G TELEPHONE LINE       U/G TELEPHONE LINE       STM. DBL. INLET TYPE         U/G TELEPHONE LINE       U/G TELEPHONE LINE       STM. DBL. INLET TYPE         U/G TELEPHONE LINE       STM. DBL. INLET TYPE       STM. DBL. INLET TYPE         OVERHEAD WIRE       WATER MAIN       STM. DBL. INLET TYPE         GAS MAIN       SAN. SEWER LATERAL       STM. DBL. INLET TYPE         SAN. SEWER LATERAL       SAN. SEWER MAIN       STORM PIPE         D.C. = DEPRESSED CURB       FF = FINISH FLOOR       MHWL = MEAN HIL         WA TER MAIN       STORM OF CURB       FF = FINISH FLOOR       MHWL = MEAN HIL         WA TERLIN       MH = MANHOLE       MLWL = MEAN LOW				STORM INLET TYPE 'A'
× BC 29.0       BOTTOM OF CURB ELEV.       STONM MELLY THE         U/G CABLE TV LINE       STM. DBL. INLET TYPE         U/G FIBER OPTIC LINE       STORM INLET TYPE         U/G ELECTRIC LINE       STM. DBL. INLET TYPE         V/G ELECTRIC LINE       STM. DBL. INLET TYPE         SAN. SEWER LATERAL       SAN. SEWER MAIN         STORM PIPE       STORM PIPE         DC.C. = DEPRESSED CURB       FF = FINISH FLOOR         V/ = UNKNOWN VALVE       MHWL = MEAN HM         WATER MANHOLE       MHWL = MEAN LOW				
U/G CABLE TV LINE U/G FIBER OPTIC LINE U/G FIBER OPTIC LINE U/G TELEPHONE LINE U/G ELECTRIC LINE U/G ELECTRIC LINE OVERHEAD WIRE WATER MAIN GAS MAIN SAN. SEWER LATERAL SAN. SEWER MAIN STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB TC = TOP OF CURB U/G FIBER OPTIC LINE U/G TELEPHONE LINE STOR INLET TYPE STM. DBL. INLET TYPE ST				STORM INLET TYPE B
U/G FIBER OPTIC LINE U/G FIBER OPTIC LINE U/G TELEPHONE LINE U/G ELECTRIC LINE OVERHEAD WIRE WATER MAIN GAS MAIN GAS MAIN SAN. SEWER LATERAL SAN. SEWER MAIN STORM PIPE ABBREVIATIONS FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MHWL = MEAN HIM WATERLIN MLWL = MEAN HIM WATERLIN MLWL = MEAN LOW				STM DRI INIET TYPE '
U/G TELEPHONE LINE U/G TELEPHONE LINE U/G ELECTRIC LINE OVERHEAD WIRE WATER MAIN GAS MAIN SAN. SEWER LATERAL SAN. SEWER MAIN STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MHWL = MEAN HIM WATERLIN MLWL = MEAN HIM WATERLIN MLWL = MEAN LOW		,		
U/G ELECTRIC LINE U/G ELECTRIC LINE OVERHEAD WIRE WATER MAIN GAS MAIN SAN. SEWER LATERAL SAN. SEWER MAIN STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MHWL = MEAN HIM WATER LINE MHWL = MEAN HIM MLWL = MEAN LOW		,		STORM INLET TYPE 'E'
OVERHEAD WIRE WATER MAIN GAS MAIN SAN. SEWER LATERAL SAN. SEWER MAIN STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MHWL = MEAN HIM WATERLIN MLWL = MEAN LOW		U/G TELEPHONE LINE		
WATER MAIN GAS MAIN SAN. SEWER LATERAL SAN. SEWER MAIN STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MHWL = MEAN HIM WATERLIN MLWL = MEAN LOW		U/G ELECTRIC LINE		STM. DBL. INLET TYPE 'E
WATER MAIN GAS MAIN SAN. SEWER LATERAL SAN. SEWER MAIN STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MHWL = MEAN HIM WATERLIN MLWL = MEAN LOW		OVERHEAD WIRE		
SAN. SEWER LATERAL SAN. SEWER MAIN STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB TC = TOP OF CURB MH = MANHOLE MH = MANHOLE MH = MAN LOW		WATER MAIN		FLARED END SECTION
SAN. SEWER MAIN STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MH WL = MEAN HIM WATERLIN MLWL = MEAN LOW		GAS MAIN		HEADWALL
STORM PIPE D.C. = DEPRESSED CURB BC = BOTTOM OF CURB TC = TOP OF CURB MH = MANHOLE STORM PIPE MH = MEAN HI ML = MEAN HI WATERLIN ML WL = MEAN LOW		SAN. SEWER LATERAL		
D.C. = DEPRESSED CURB BC = BOTTOM OF CURB FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MLWL = MEAN HI WATERLIN MLWL = MEAN LOW		SAN. SEWER MAIN		
D.C. = DEPRESSED CURB BC = BOTTOM OF CURB TC = TOP OF CURB FF = FINISH FLOOR UV = UNKNOWN VALVE MH = MANHOLE MLWL = MEAN HIM MLWL = MEA		STORM PIPE		
BC= BOTTOM OF CURBUV= UNKNOWN VALVEWATERLINTC= TOP OF CURBMH= MANHOLEMLWLMEAN LOW		ABBREVL	ATION	S
TC = TOP OF CURB MH = MANHOLE MLWL= MEAN LOW	D.C. = DEPRESSED CUR	B FF = FINISH FL	OOR	MHWL = MEAN HIGH
				WATERLINE MI WI = MEAN LOW
	BOL = BOLLARD	DEP. = DEPRESSE		WA TERLINE
				DI - DOTTON WALL

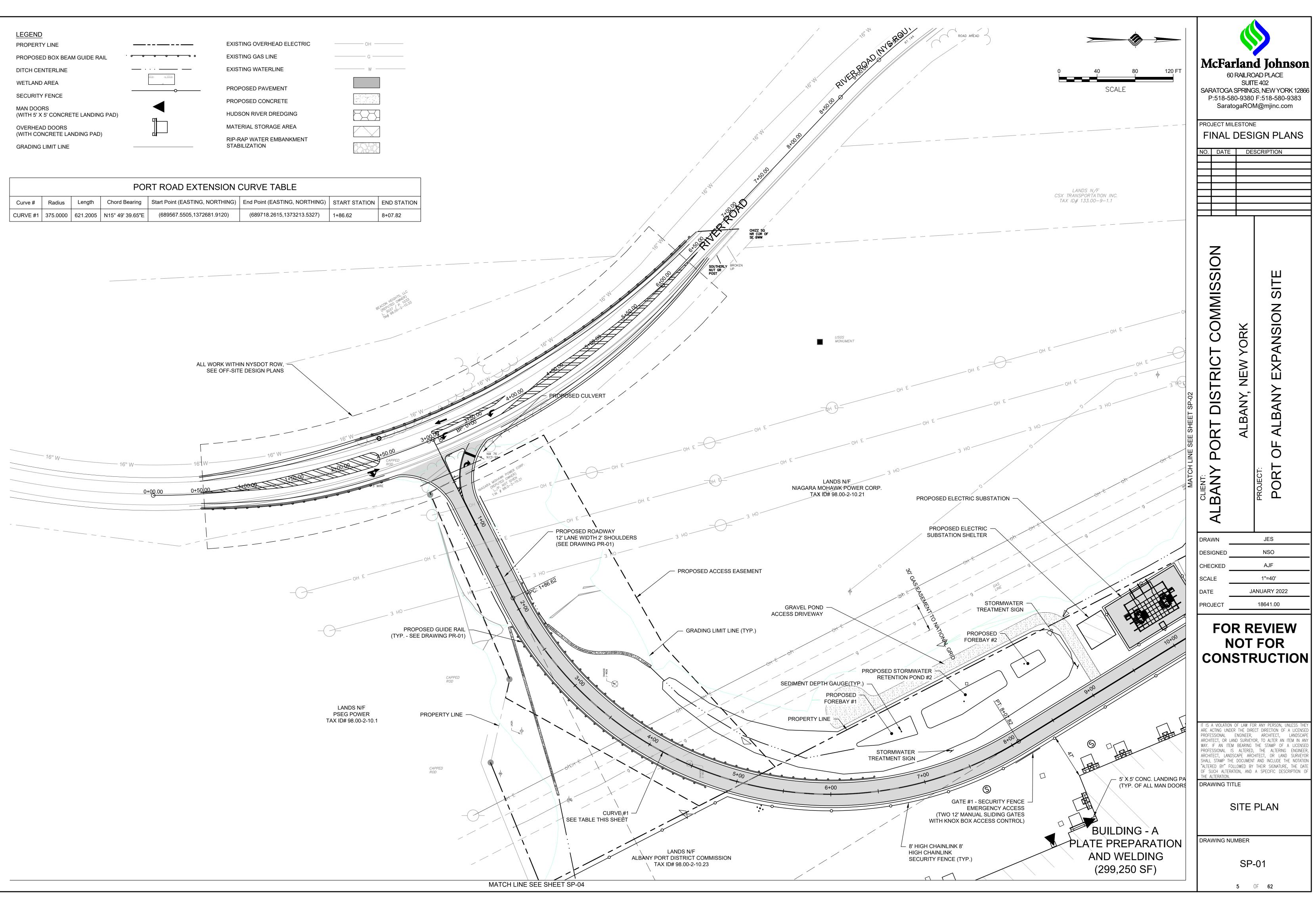


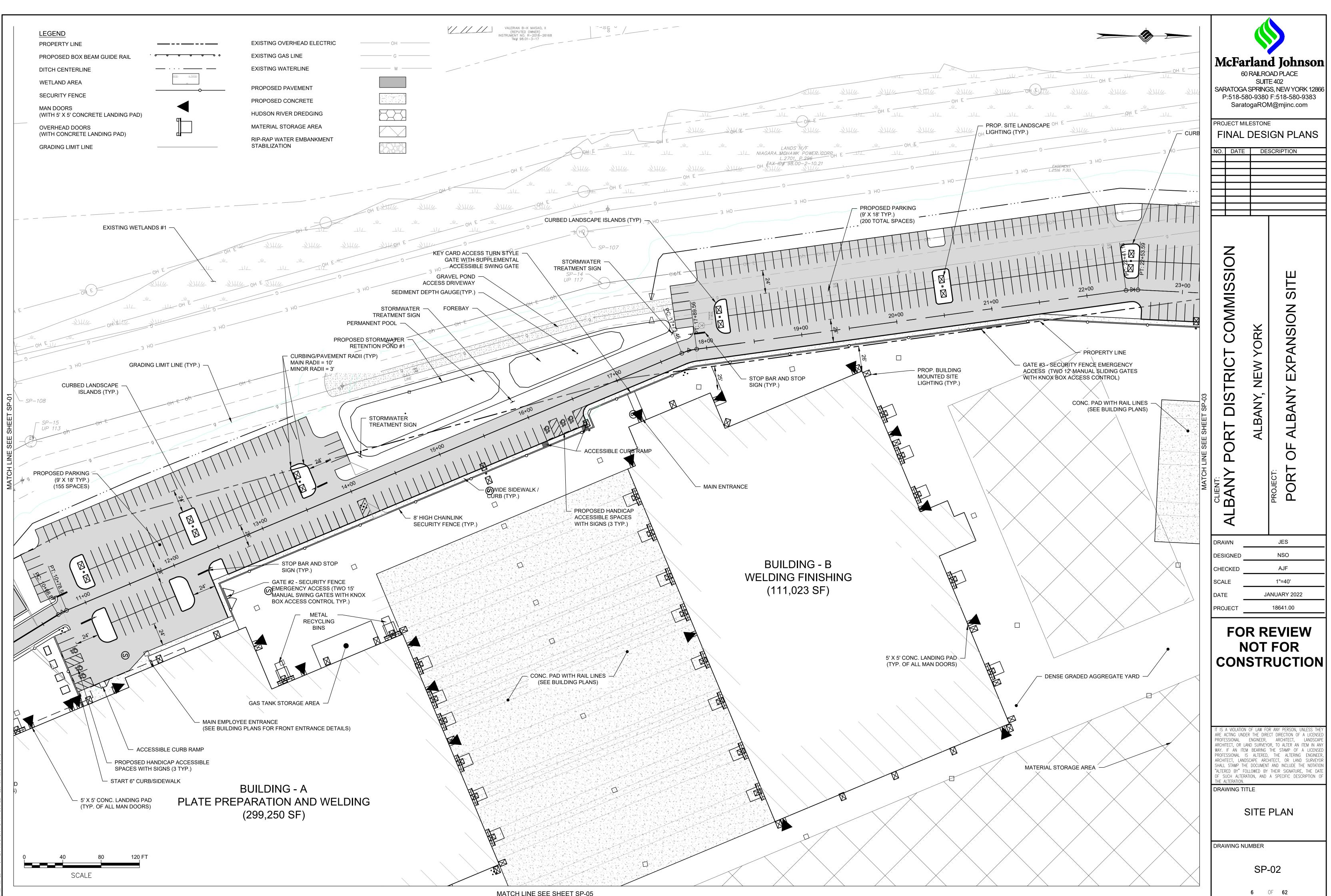


TREE CLEARING AREA	
EXISTING TREE LINE	
PROPOSED TREE LINE	
EXIST. CROSSING RIGHTS	
PROPERTY LINE	
ABANDONED WATER LINE DEMO	+++
CENTERLINE OF EXIST. RAIL LINE	+++++++++++++++++++++++++++++++++++++++
RAIL LINE DEMO	Х
EXIST. WETLAND AREA	علد علد عباللاد عباللاد
EXIST. WETLAND AREA TO BE IMPACTED	XXXXXXXX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

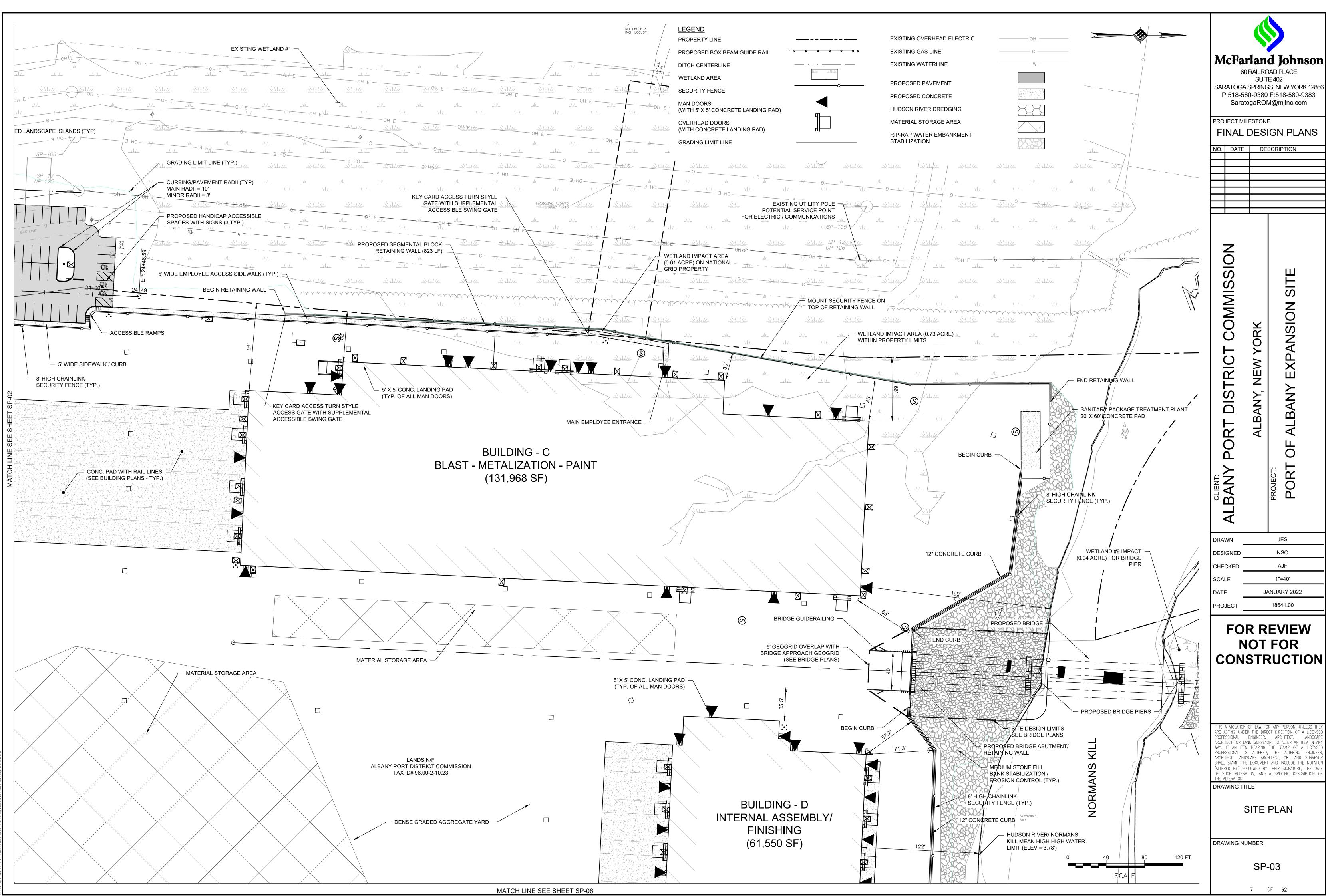


LEGEND	)						
PROPERT	Y LINE		·	EXIST	TING OVERHEAD ELECTRIC	OH	
PROPOSE	D BOX BEA	M GUIDE R	AIL · • • •	exist	TING GAS LINE	G	
DITCH CE	NTERLINE		<u> </u>		TING WATERLINE	W	
WETLAND				<u>+////</u>	POSED PAVEMENT		]
SECURITY				PROP	POSED CONCRETE		* 
MAN DOO (WITH 5' X		TE LANDIN	G PAD)	HUDS	SON RIVER DREDGING	$\vdash \rightarrow$	]
		NDING PAD	١	МАТЕ	RIAL STORAGE AREA		1
-	LIMIT LINE		)		AP WATER EMBANKMENT ILIZATION		]
			POF	RT ROAD EXTENSION (	CURVE TABLE		
Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATIC
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
	1	1					





MATCH LINE SEE SHEET SP-05



1.00 ALBANY PORT EXPANSION/DRAW/DRAWINGS/SHEET FILES/18641.00-

### LEGEND

PROPOSED BOX BEAM GUIDE RAIL

DITCH CENTERLINE

PROPERTY LINE

SECURITY FENCE

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

OVERHEAD DOORS (WITH CONCRETE LANDING PAD)

GRADING LIMIT LINE

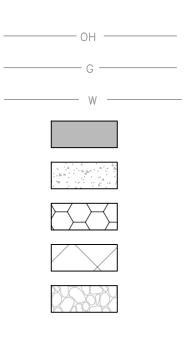
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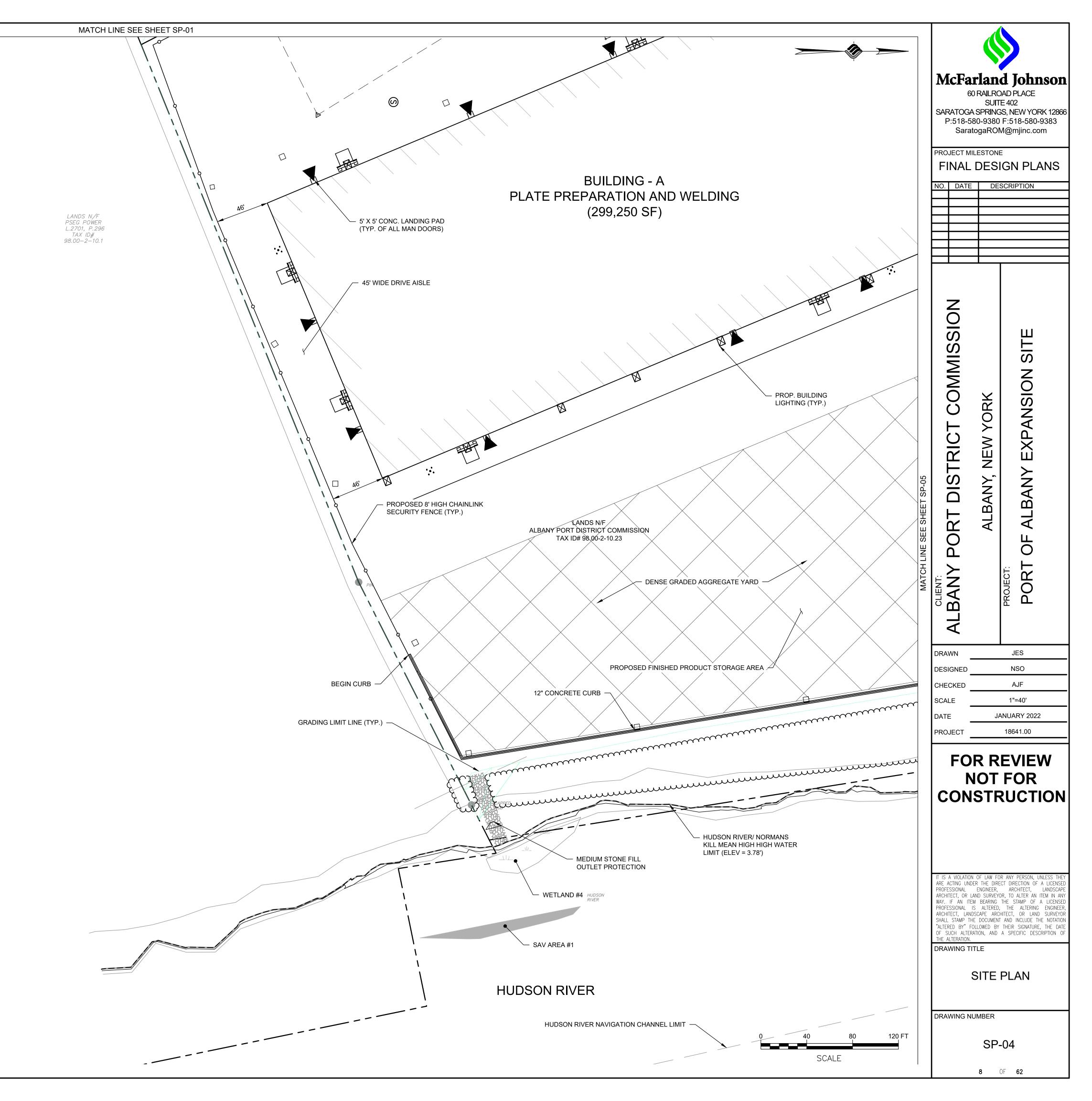
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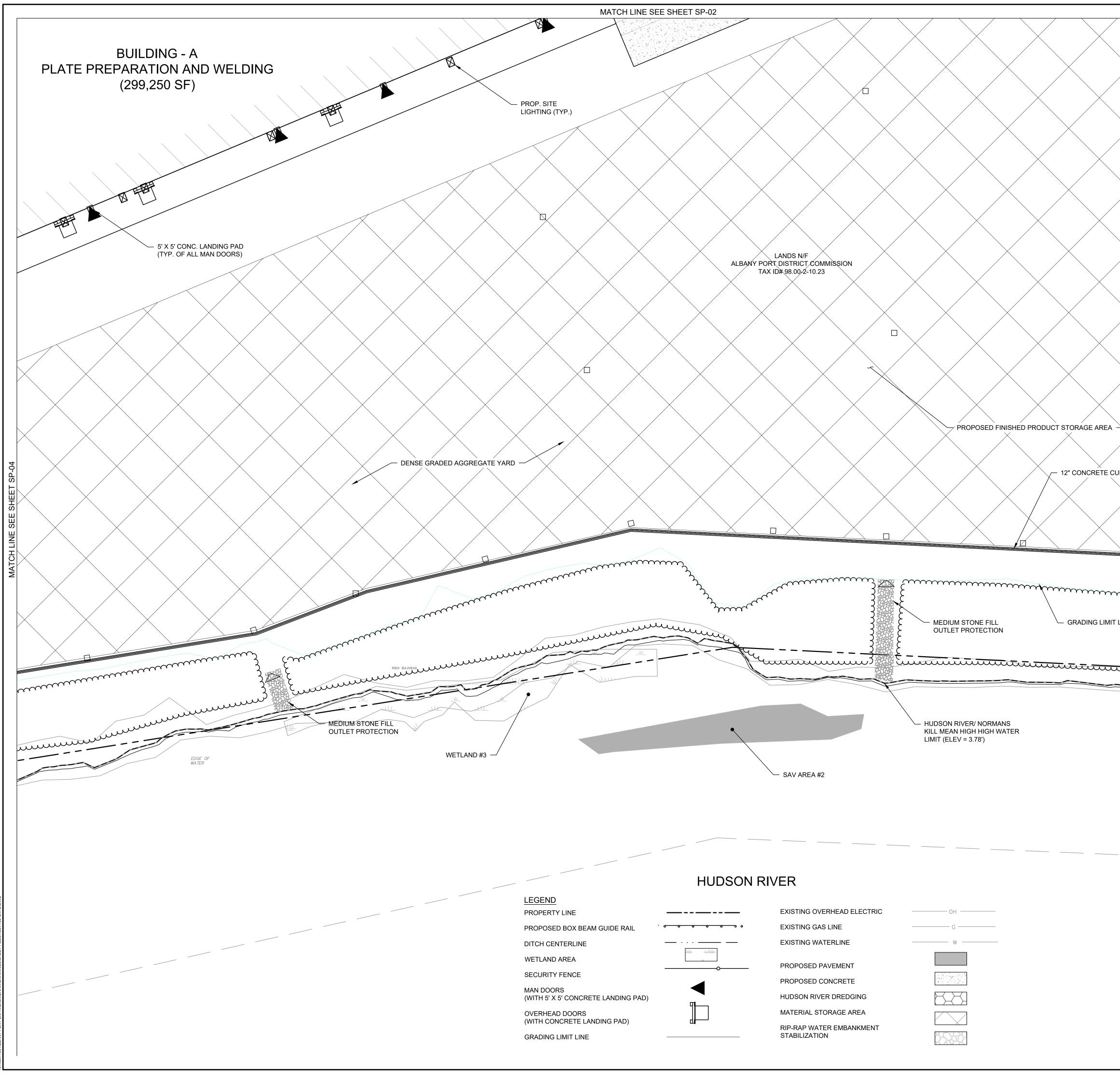
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EXISTING OVERHEAD ELECTRIC EXISTING GAS LINE EXISTING WATERLINE PROPOSED PAVEMENT PROPOSED CONCRETE

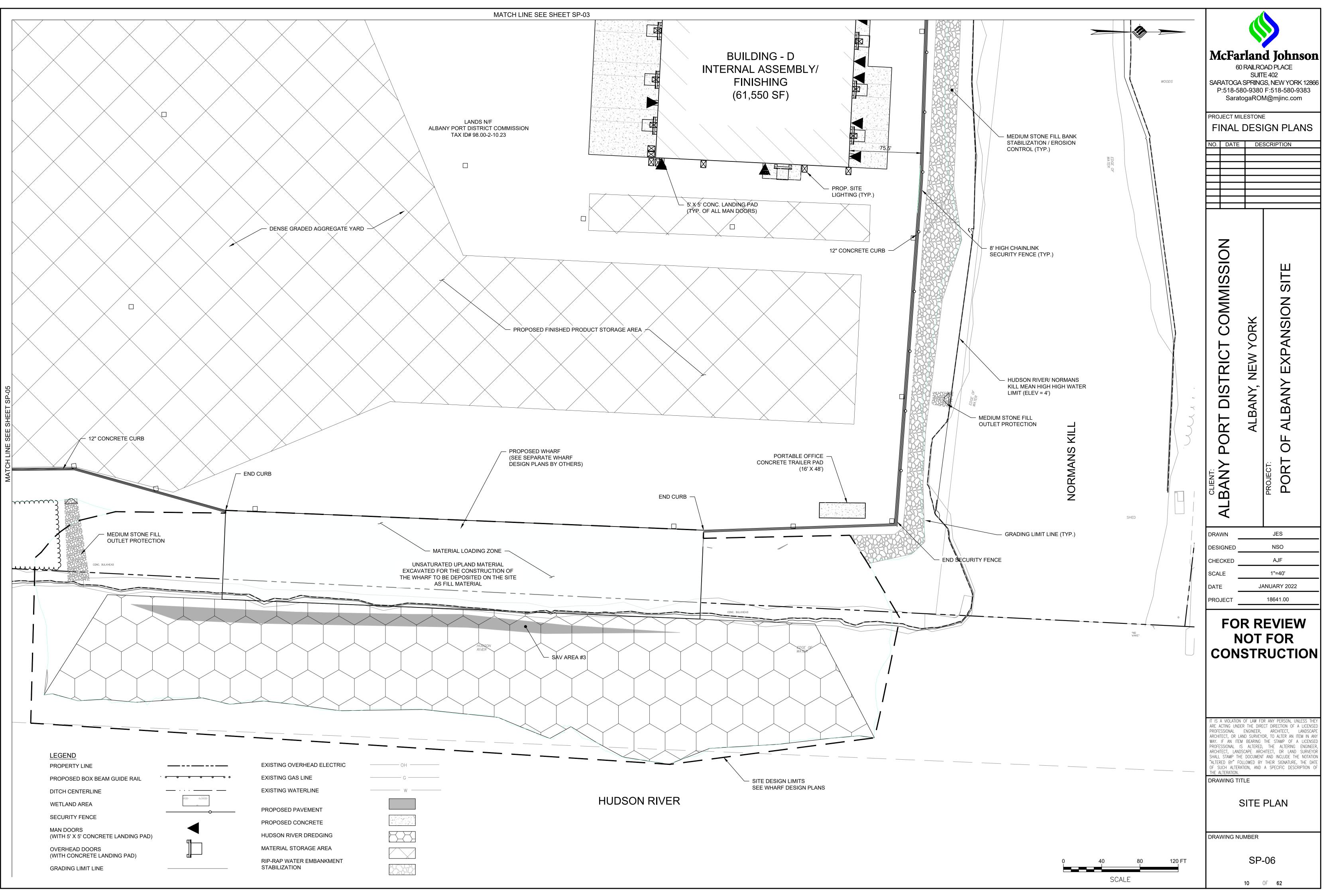
HUDSON RIVER DREDGING MATERIAL STORAGE AREA RIP-RAP WATER EMBANKMENT STABILIZATION

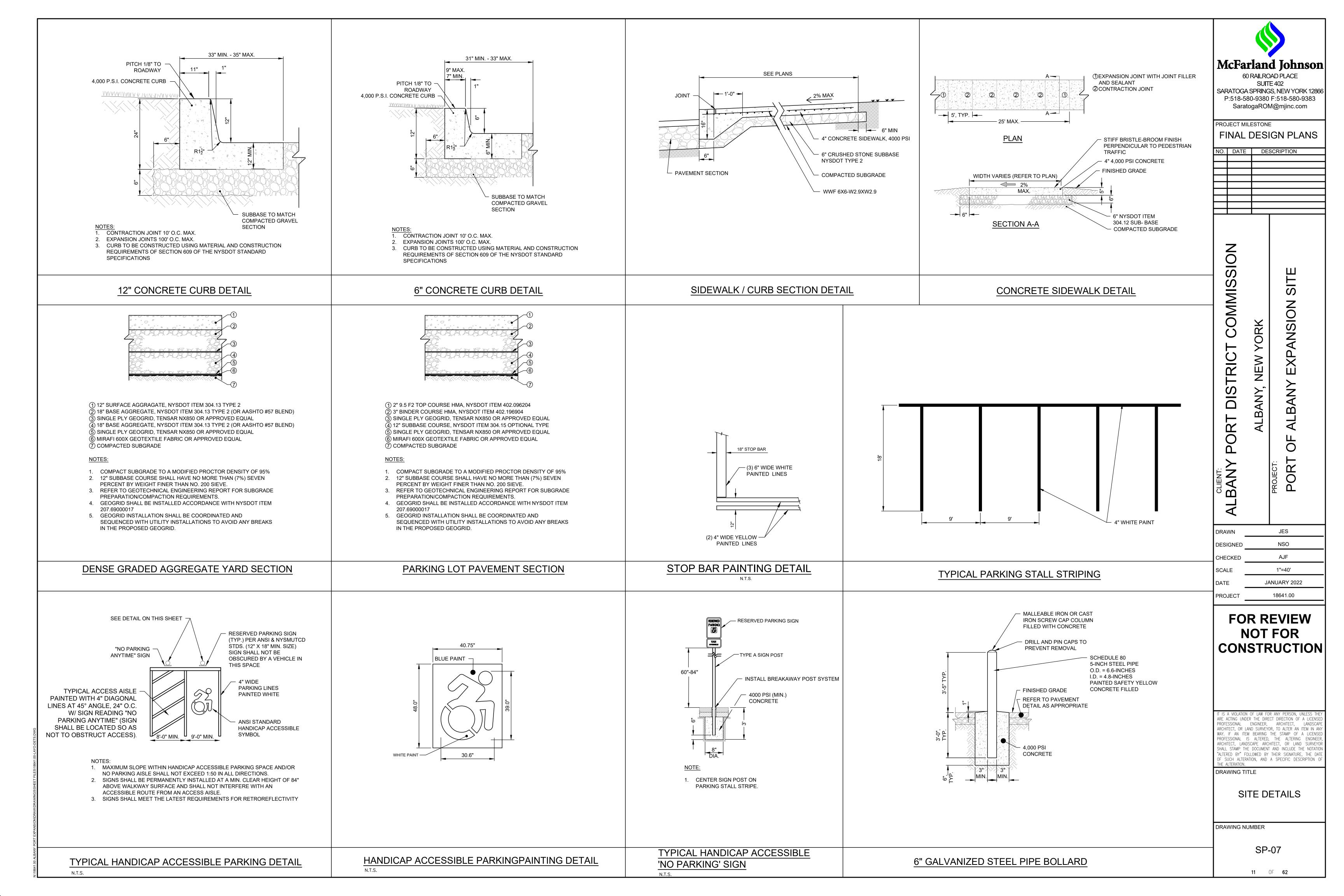


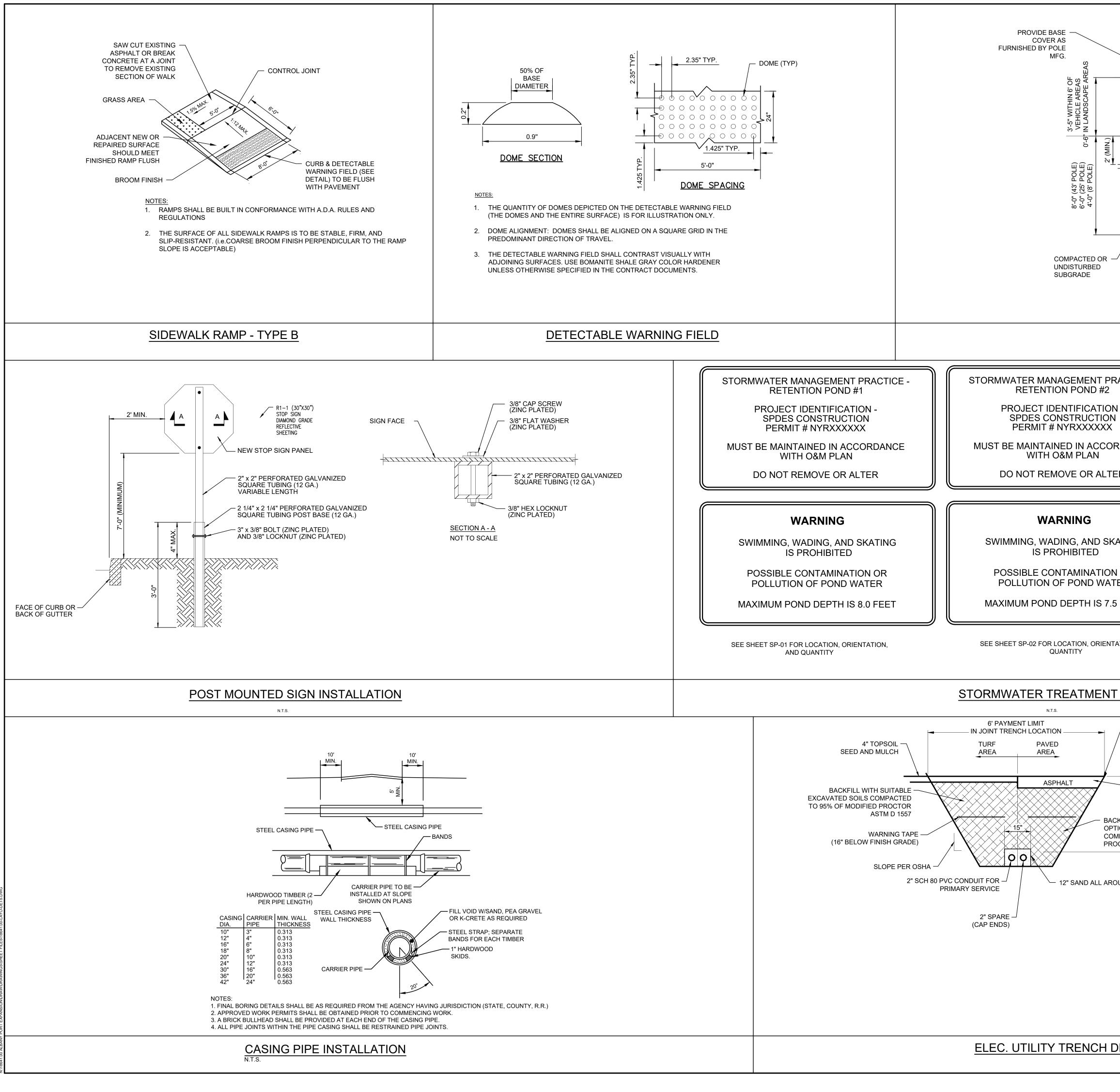




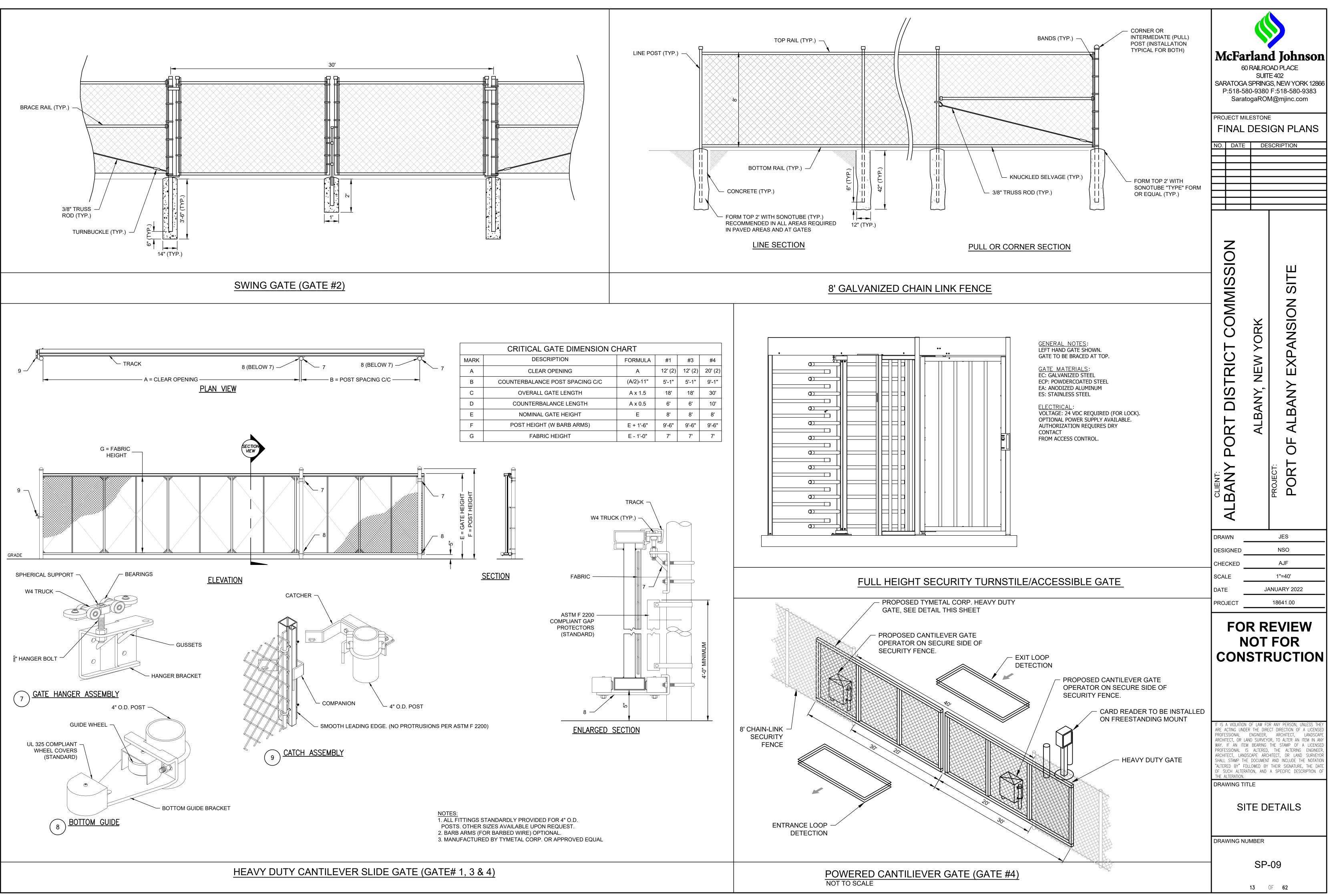
		7				
				McF		d Johnson
					SUIT GA SPRING	DAD PLACE E 402 SS, NEW YORK 12866
						F:518-580-9383 M@mjinc.com
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$\langle  \times$						GN PLANS
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				≥ ≥		NC
				NV PORT DISTRICT COMMISSION	RK	ECT: IRT OF ALBANY EXPANSION SITE
$\langle \rangle$					ALBANY, NEW YORK	PAN
				R C	<b>NEW</b>	EX
			e e		IҲ	X
					BAN	BA
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				<b>D</b>		OF OF
						РОР
		~~~~~~	~~~~~	AL		
				DRAWN		JES
						NSO AJF
			CK BULKHEAD	SCALE		1"=40'
EDGE OF WATER	?			DATE PROJECT		18641.00
						EVIEW
						FOR
				CO	NSTF	RUCTION
						R ANY PERSON, UNLESS THEY CT DIRECTION OF A LICENSED
				PROFESSIONA ARCHITECT, C WAY. IF AN	L ENGINEER, DR LAND SURVEYC ITEM BEARING	ARCHITECT, LANDSCAPE R, TO ALTER AN ITEM IN ANY THE STAMP OF A LICENSED THE ALTERING ENGINEER,
				ARCHITECT, SHALL STAMF "ALTERED BY	LANDSCAPE ARCH P THE DOCUMENT " FOLLOWED BY	HITECT, OR LAND SURVEYOR AND INCLUDE THE NOTATION THEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF
				DRAWING	ION.	L. L. IS SECONDITION U
					SITE	PLAN
				DRAWING	6 NUMBER	
0	40	80	120 FT		SP-	-05
	SCA	NLE .			9 (	DF <b>62</b>



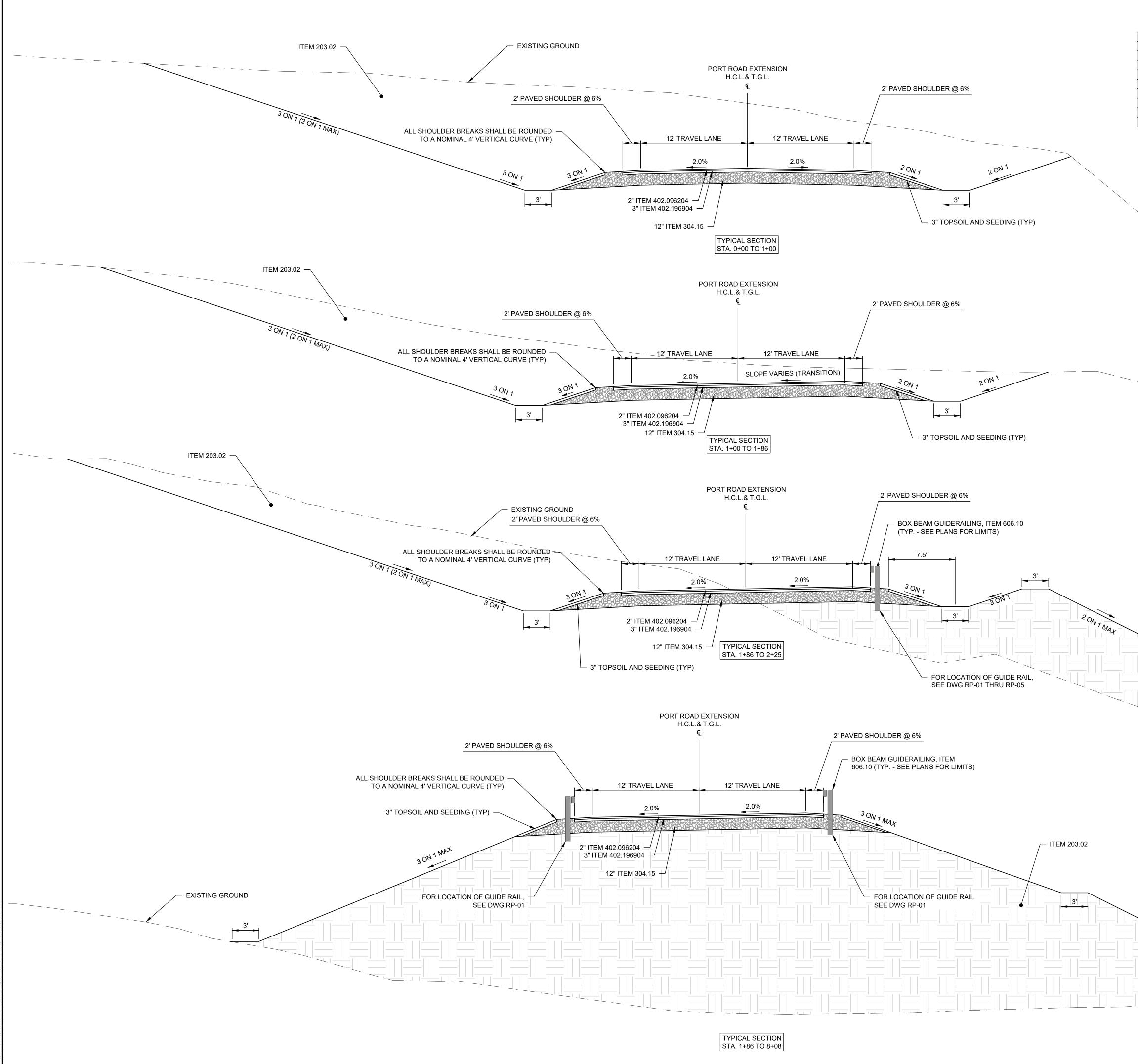




LIGHT POLE & ANCHORING SYSTEM BY MFG. 1" CHAMFER	McFarland Jo	hneon
LIGHT POLES BASES IN PARKING LOT TO BE PAINTED YELLOW #3 HORIZONTAL TIES @ 12" C.C. 4-#5 VERTICAL-EQ. SPACED	60 RAILROAD PL SUITE 402 SARATOGA SPRINGS, NE P:518-580-9380 F:518 SaratogaROM@mj	ACE N YORK 12866 3-580-9383
FINISH GRADE (MATERIALS VARY) 2" TYP. COVER 5000 PSI TYPE II	PROJECT MILESTONE FINAL DESIGN	
CONCRETE CEMENT CONDUIT AND GROUND ROD CONNECT TO INSIDE METAL POLE SEE ELECTRICAL PLAN FOR SIZE BOLLARDS REQUIRED IN VEHICULAR AREAS	NO. DATE DESCRIPT	FION
2'-0" (43'&25') 1'-6" (8') SECTION BOLT LAYOUT & MOUNTING PROCEDURE AS PER MFG. SPECS PLAN		
EXTERIOR LIGHT POLE BASE	COMMISSION	N SITE
ACTICE - I - RDANCE		DF ALBANY EXPANSION SITE
R	PORT DISTRICT ALBANY, NEW Y	ALBANY
ATING		RT OF
OR ER FEET		PO
ATION, AND	DRAWN JES DESIGNED NSC CHECKED AJI	0
SIGNS SAWCUT AND SEAL JOINT EXISTING ASPHALT	SCALE 1"=4 DATE JANUAR PROJECT 18641	Y 2022
(TYP.) ADBE	FOR REV NOT FC	)R
SEE PLAN FOR THE PROPOSED PAVEMENT SECTION KFILL WITH NYSDOT IONAL SUBBASE ITEM 304.15 IPACTED TO 95% MODIFIED ICTOR ASTM (D1557)		CTION
UND BY ELECTRICAL CONTRACTOR	IT IS A VIOLATION OF LAW FOR ANY PE ARE ACTING UNDER THE DIRECT DIRECT PROFESSIONAL ENGINEER, ARCHI ARCHITECT, OR LAND SURVEYOR, TO AL WAY. IF AN ITEM BEARING THE STAI PROFESSIONAL IS ALTERED, THE A ARCHITECT, LANDSCAPE ARCHITECT, O SHALL STAMP THE DOCUMENT AND INO "ALTERED BY" FOLLOWED BY THEIR S OF SUCH ALTERATION, AND A SPECIF THE ALTERATION.	TION OF A LICENSED TECT, LANDSCAPE TER AN ITEM IN ANY MP OF A LICENSED ALTERING ENGINEER, DR LAND SURVEYOR CLUDE THE NOTATION IGNATURE, THE DATE
GRASS AREA PAVED AREA	DRAWING TITLE	ILS
	DRAWING NUMBER	
DETAIL	<b>12</b> OF <b>6</b> 2	2



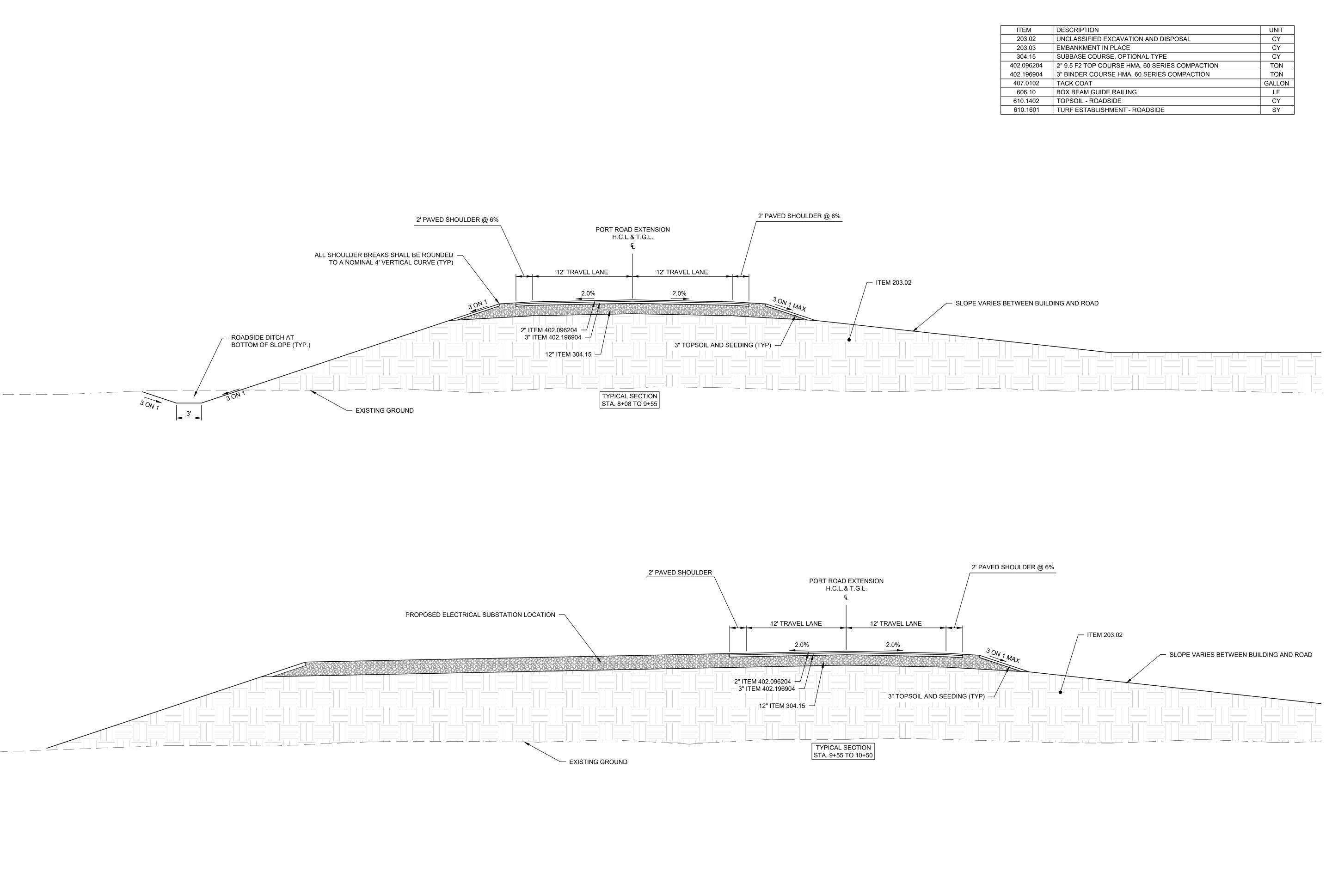
	CRITICAL GATE DIMENSION C	HART			
MARK	DESCRIPTION	FORMULA	#1	#3	#4
A	CLEAR OPENING	A	12' (2)	12' (2)	20' (2)
В	COUNTERBALANCE POST SPACING C/C	(A/2)-11"	5'-1"	5'-1"	9'-1"
С	OVERALL GATE LENGTH	A x 1.5	18'	18'	30'
D	COUNTERBALANCE LENGTH	A x 0.5	6'	6'	10'
E	NOMINAL GATE HEIGHT	E	8'	8'	8'
F	POST HEIGHT (W BARB ARMS)	E + 1'-6"	9'-6"	9'-6"	9'-6"
G	FABRIC HEIGHT	E - 1'-0"	7'	7'	7'



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

- ITEM 203.02

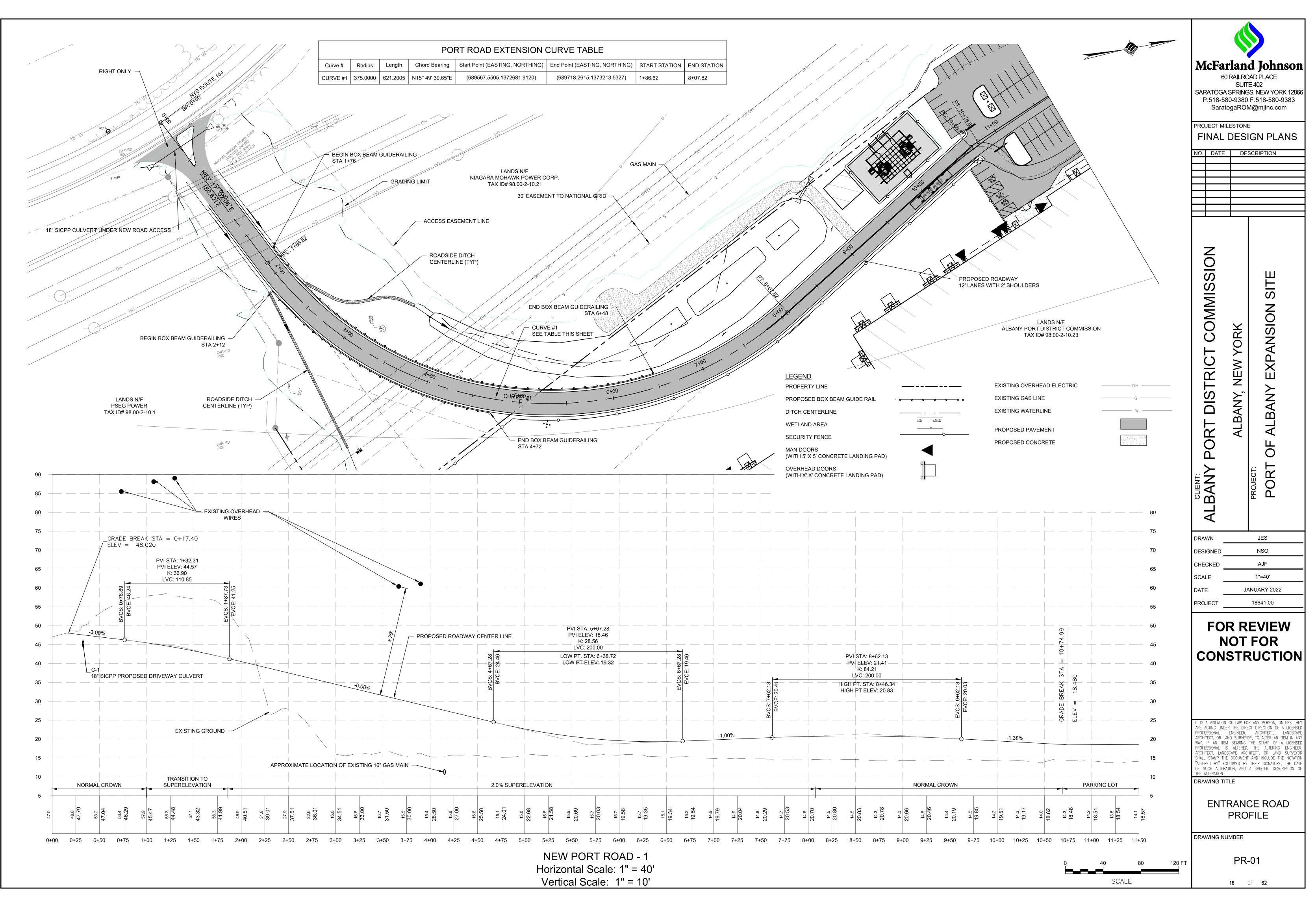
	<b>McFarland Johnson</b> 60 RAILROAD PLACE SUITE 402 SARATOGA SPRINGS, NEW YORK 12866 P:518-580-9380 F:518-580-9383 SaratogaROM@mjinc.com				
		-	DES	E IGN PLANS SCRIPTION	
			ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE	
_	CHEC SCAL DATE	GNED	J	JES NSO AJF N.T.S. ANUARY 2022 18641.00	
	PROJECT       18641.00         FOR REVIEW       NOT FOR         NOT FOR       NOT FOR         CONSTRUCTION       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				
	ARCHITI SHALL "ALTERF OF SU THE AL DRAV	ECT, LANDSC STAMP THE ED BY" FOLL CH ALTERATI TERATION. VING TITL	CAPE ARC DOCUMENT LOWED BY ON, AND	THE ALTERING ENGINEER, HITECT, OR LAND SURVEYOR AND INCLUDE THE NOTATION THEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF	

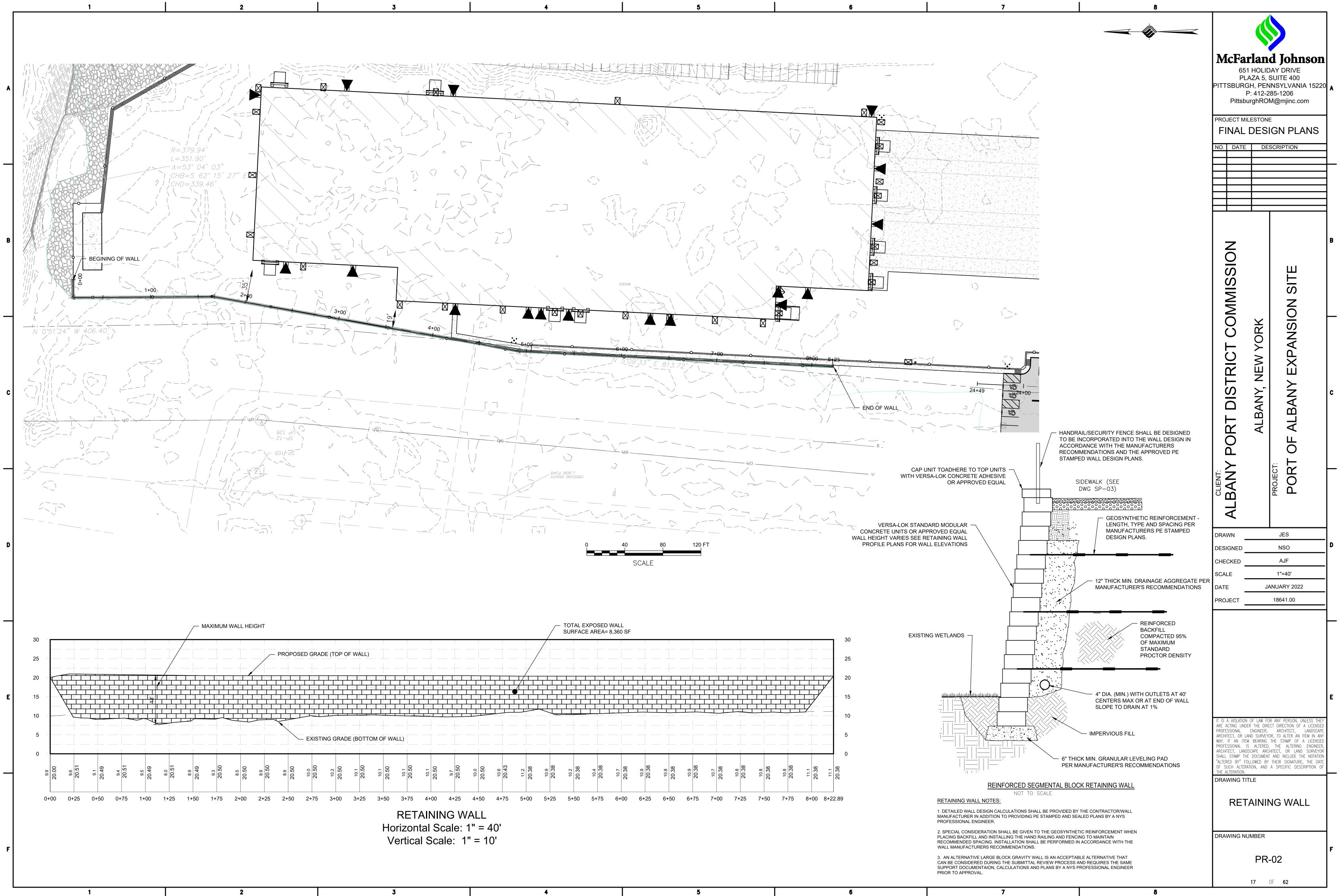


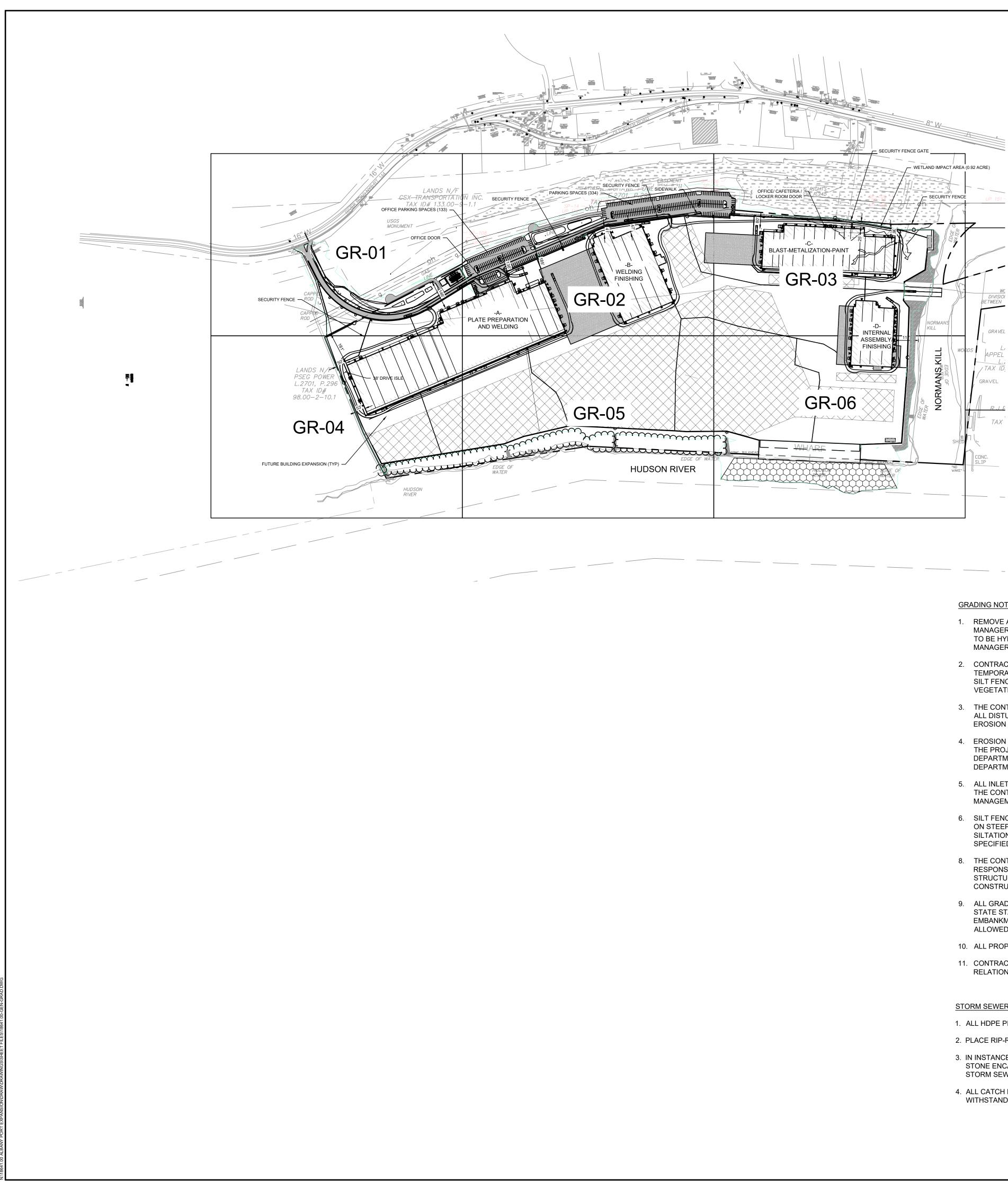


ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY
402.096204	2" 9.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	TON
402.196904	3" BINDER COURSE HMA, 60 SERIES COMPACTION	TON
407.0102	TACK COAT	GALLON
606.10	BOX BEAM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

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	DATE DESCRIPTION				
ALBANY PORT DISTRICT COMMISSION	ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE			
DRAWN		JES NSO			
CHECKED		AJF N.T.S.			
DATE PROJECT	J	ANUARY 2022 18641.00			
FOR REVIEW NOT FOR CONSTRUCTION					
ARE ACTING UNDER PROFESSIONAL E ARCHITECT, OR LAN WAY. IF AN ITEM PROFESSIONAL IS ARCHITECT, LANDS( SHALL STAMP THE "ALTERED BY" FOLI	THE DIRE ENGINEER, D SURVEYI BEARING ALTERED CAPE ARC DOCUMEN LOWED BY ON, AND	OR ANY PERSON, UNLESS THEY ECT DIRECTION OF A LICENSED ARCHITECT, LANDSCAPE OR, TO ALTER AN ITEM IN ANY THE STAMP OF A LICENSED , THE ALTERING ENGINEER, HITECT, OR LAND SURVEYOR T AND INCLUDE THE NOTATION THEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF			
TYPI	CAL	SECTION			
DRAWING NUI	MBER TP	02			
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#### GRADING NOTES:

- 1. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDED 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 OCCURRED COMPLETELY.
- 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 WILL 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 STONE DROP INLET PROTECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BEST MANAGEMENT PRACTICES (BMP'S) UNTIL GROUND COVER IS ESTABLISHED.
- 6. SILT FENCE, JUTE MESH, AND/OR EROSION CONTROL BLANKETS WILL 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.
- 8. THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
- 9. 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.
- 10. ALL PROPOSED ELEVATIONS SHOWN HEREON ARE FINISHED GRADE ELEVATION.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING RIM ELEVATIONS IN RELATION TO PROPOSED GRADE PRIOR TO INSTALLATION.

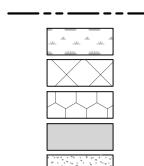
#### STORM SEWER:

- 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.

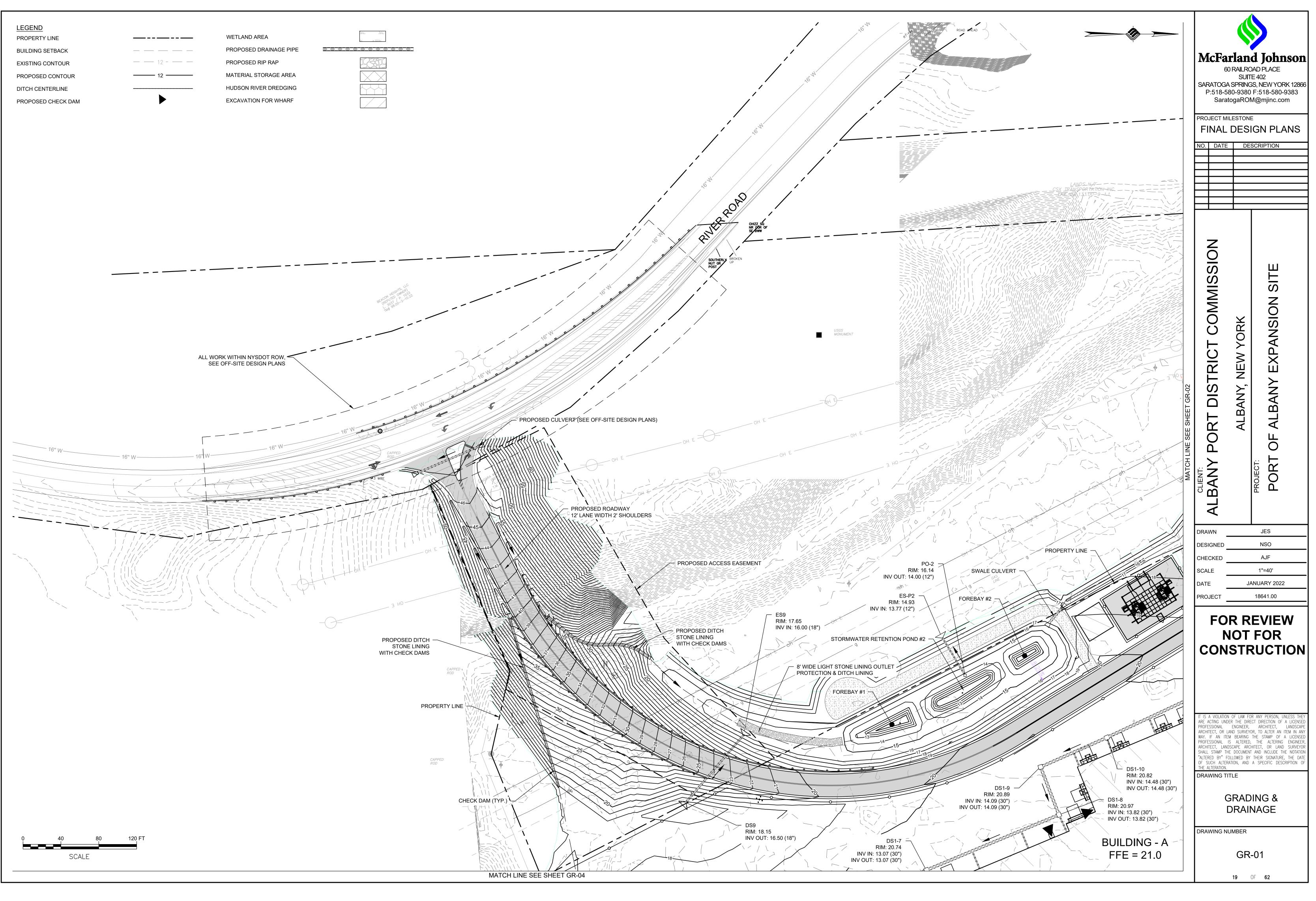
	<b>McFarland Johnson</b> 60 RAILROAD PLACE SUITE 402 SARATOGA SPRINGS, NEW YORK 12866 P:518-580-9380 F:518-580-9383 SaratogaROM@mjinc.com				
	PROJECT MILESTONE FINAL DESIGN PLANS				
	ALBANY PORT DISTRICT COMMISSION	ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE		
	DRAWN DESIGNED		JES NSO		
	CHECKED		AJF		
	SCALE DATE	JA	1"=250' ANUARY 2022		
	PROJECT		18641.00		
	N	ΙΟΤ	EVIEW FOR RUCTION		
	ARE ACTING UNDE PROFESSIONAL ARCHITECT, OR LA WAY. IF AN ITEM PROFESSIONAL IS ARCHITECT, LAND SHALL STAMP THI "ALTERED BY" FC	ER THE DIRE ENGINEER, AND SURVEYO M BEARING S ALTERED, SCAPE ARC E DOCUMENT DLLOWED BY ATION, AND	OR ANY PERSON, UNLESS THEY ECT DIRECTION OF A LICENSED ARCHITECT, LANDSCAPE OR, TO ALTER AN ITEM IN ANY THE STAMP OF A LICENSED , THE ALTERING ENGINEER, HITECT, OR LAND SURVEYOR F AND INCLUDE THE NOTATION THEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF		
		TES	DRAINAGE & INDEX		
750 FT		GR	-00		

LEGEND PROPERTY LINE WETLAND AREA STORAGE AREA DREDGING AREA PAVEMENT AREA

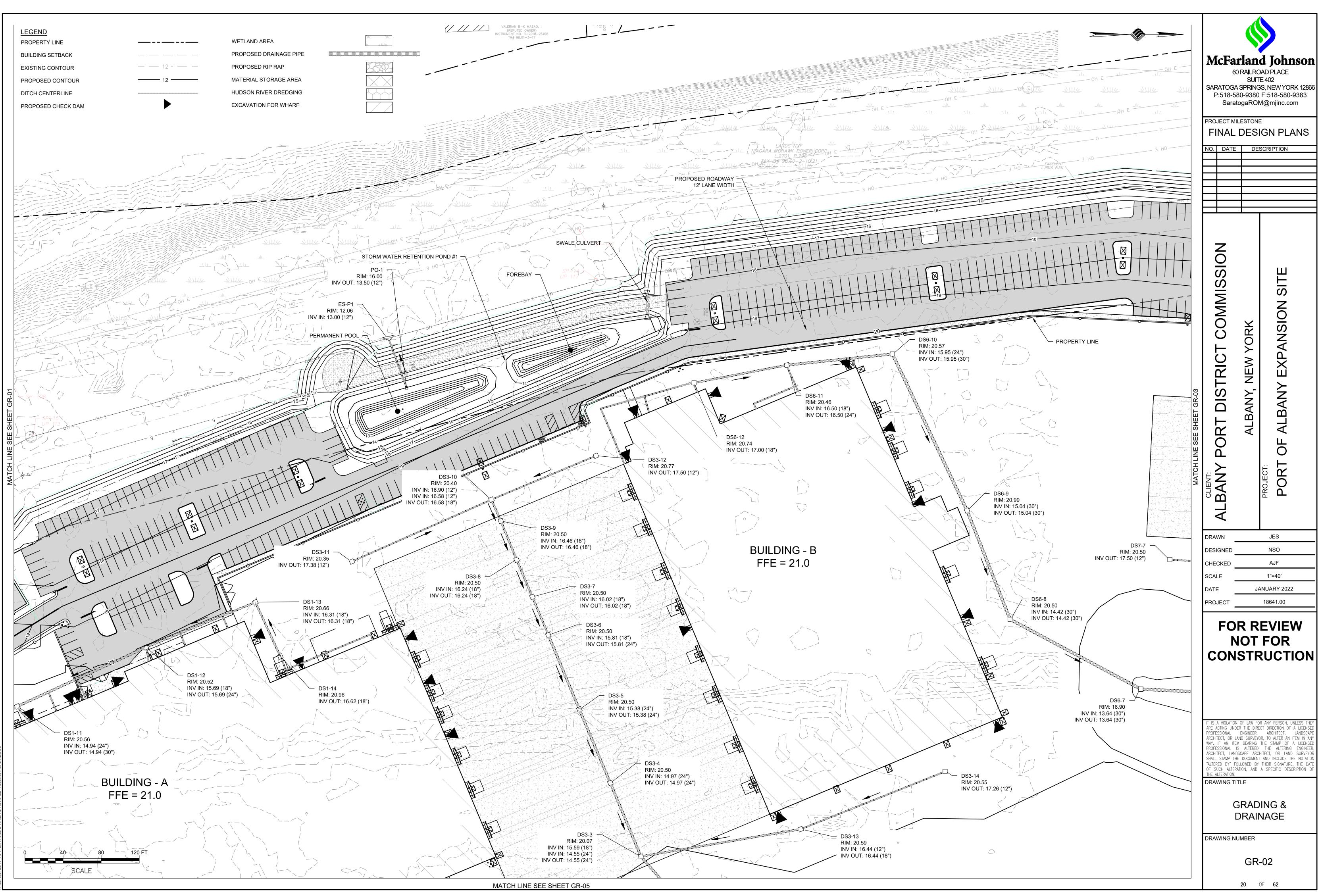
CONCRETE AREA



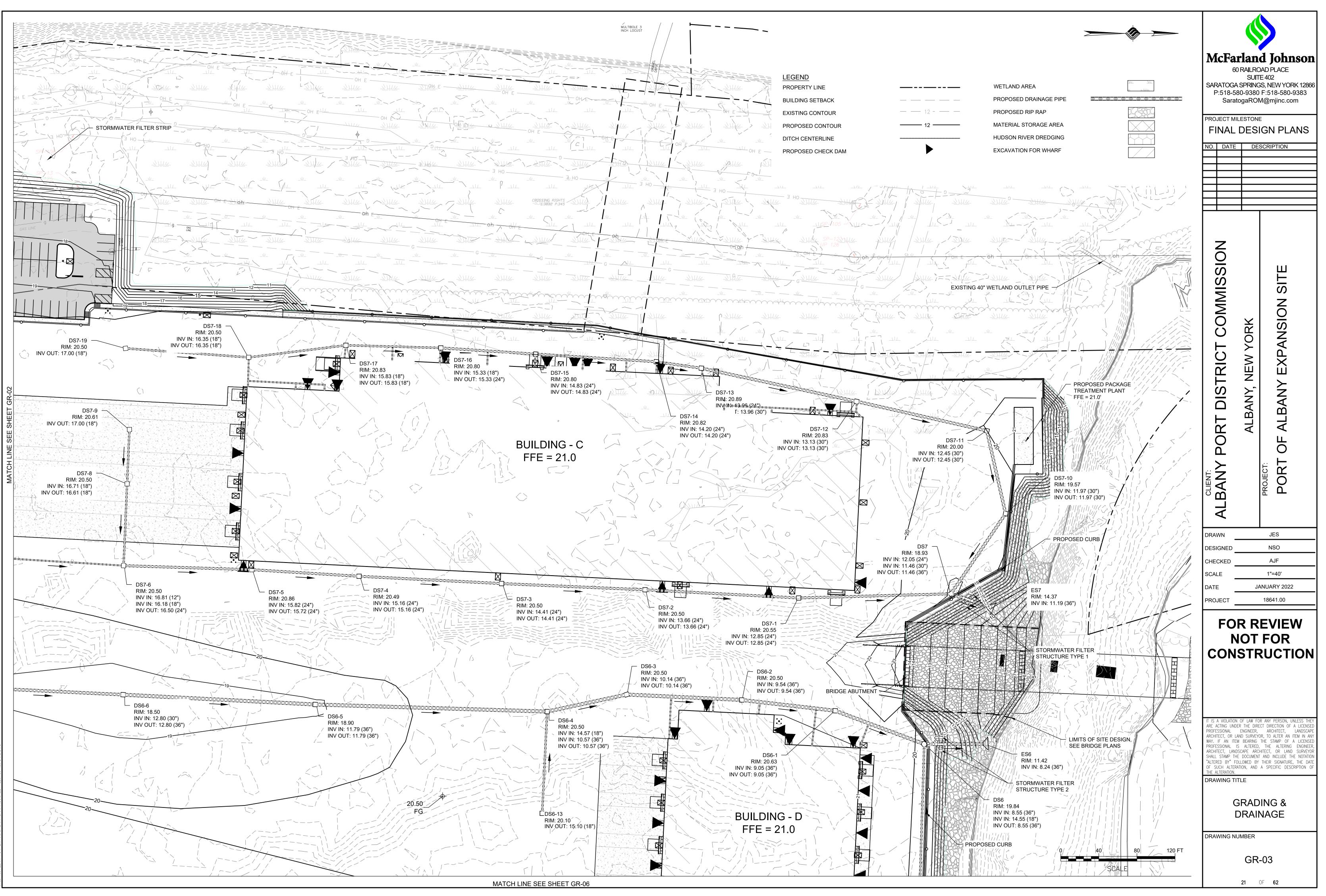
SCALE



.00 ALBANY PORT EXPANSION/DRAW/DRAWINGS/SHEET FILES/18641.00-GRAD.DWG

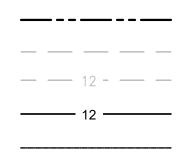


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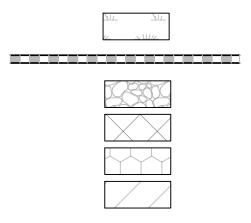


### LEGEND

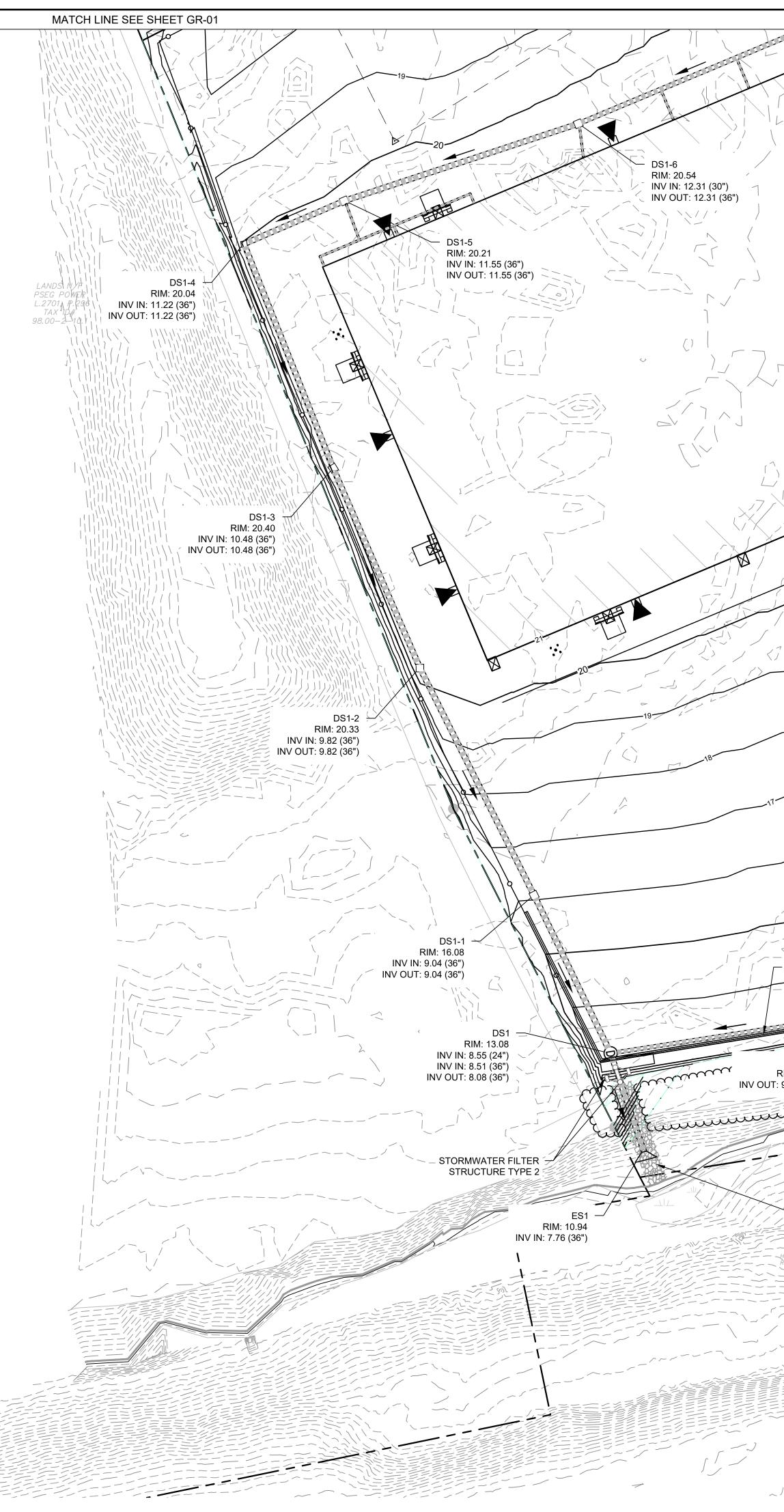
PROPERTY LINE BUILDING SETBACK EXISTING CONTOUR PROPOSED CONTOUR DITCH CENTERLINE PROPOSED CHECK DAM



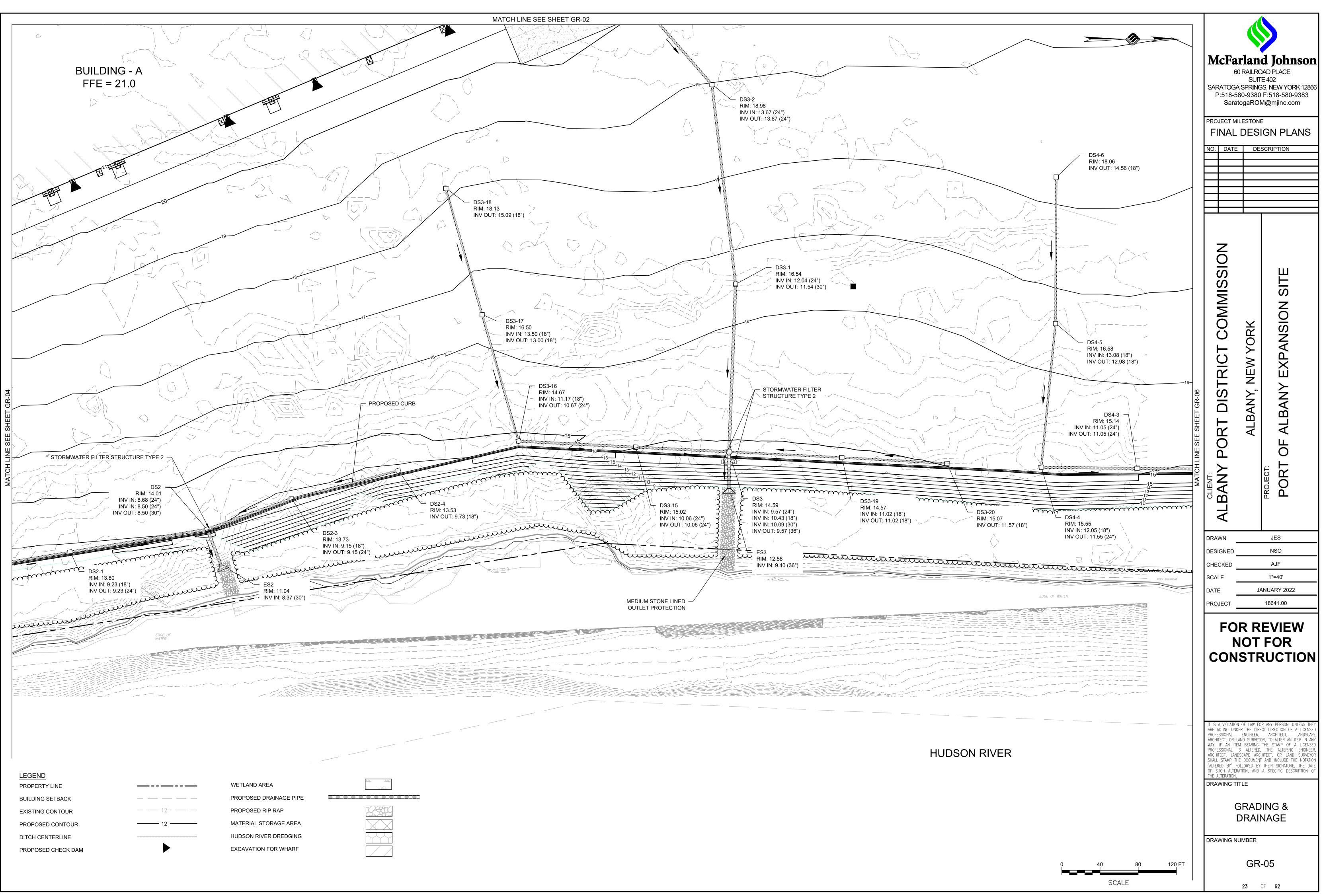
WETLAND AREA PROPOSED DRAINAGE PIPE PROPOSED RIP RAP MATERIAL STORAGE AREA HUDSON RIVER DREDGING EXCAVATION FOR WHARF

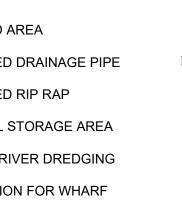


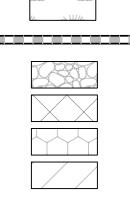


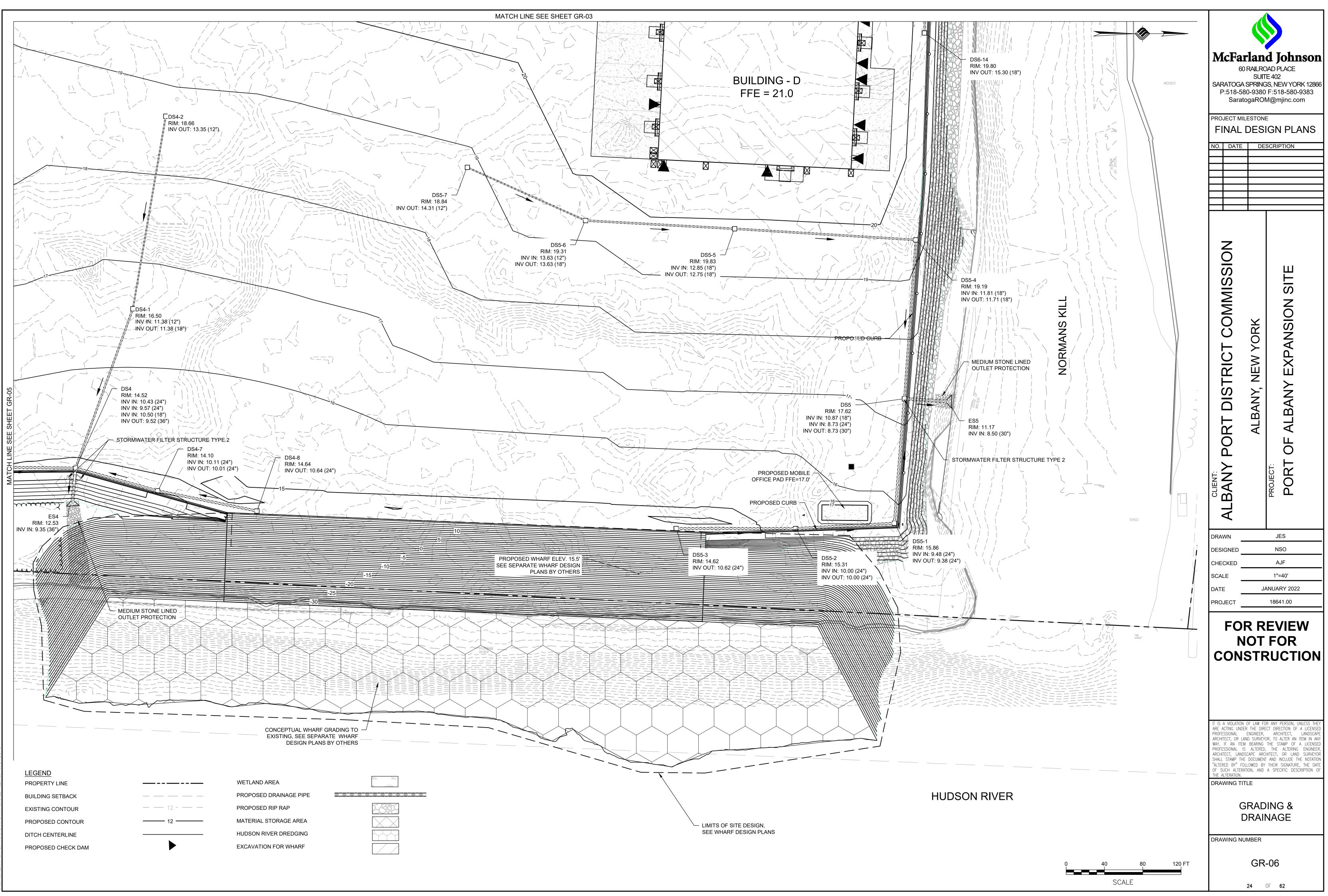


	Mc			Johnson DPLACE 402
	P:5	18-580-	PRINGS, -9380 F	NEW YORK 12866 518-580-9383 Dmjinc.com
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			ALBANY, NEW YORK	ALBANY EXPANSION
MATCHLINE SEE SHEET GR-05		)		Γ OF
	CLIENT AI RAN			IOA
	DRAWN DESIGN			JES NSO
PROPOSED CURB	CHECK SCALE DATE			AJF 1"=40' UARY 2022
DS2-2 CTT RIM: 13.53 INV OUT: 10.03 (18")	PROJE			8641.00
DS1-15 - RIM: 13.29 9.29 (24")		NC	DT F	VIEW FOR UCTION
MEDIUM STONE LINED OUTLET PROTECTION	ARE ACTIN	NG UNDER <sup>-</sup>	THE DIRECT	NY PERSON, UNLESS THEY DIRECTION OF A LICENSED
HUDSON RIVER	PROFESSIO ARCHITEC WAY. IF PROFESSIO ARCHITEC SHALL ST "ALTERED OF SUCH THE ALTER	ONAL EN T, OR LAND AN ITEM E ONAL IS T, LANDSCA AMP THE D BY" FOLLO ALTERATIOI	NGINEER, SURVEYOR, BEARING THE ALTERED, T APE ARCHITE DOCUMENT AN DWED BY TH N, AND A	ARCHITECT, LANDSCAPE TO ALTER AN ITEM IN ANY STAMP OF A LICENSED HE ALTERING ENGINEER, CT, OR LAND SURVEYOR ND INCLUDE THE NOTATION EIR SIGNATURE, THE DATE SPECIFIC DESCRIPTION OF
HUDSON-RIVER			RADII RAIN	
	DRAWI	NG NUM	BER GR-C	)4
j / SCALE		22	<b>2</b> OF	62









) ALBANY PORT EXPANSION/DRAW/DRAW/INGS/SHEET FILES/18641.00-GRAD.DWC

## STRUCTURE TABLE

		S	IRUC	IURE IABLE		
			NE	TWORK 1		
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS1	13.08	8.55 8.51	8.08	NYSDOT STRUCTURE	1372997.40	690489.1
DS1-1	16.08	9.04	9.04	NYSDOT STRUCTURE	1372950.69	690392.7
DS1-2	20.33	9.82	9.82	NYSDOT STRUCTURE	1372881.05	690254.1
DS1-3	20.40	10.48	10.48	NYSDOT STRUCTURE	1372828.17	690132.2
DS1-4	20.04	11.22	11.22	NYSDOT STRUCTURE	1372773.75	689995.3
DS1-5	20.21	11.55	11.55	NYSDOT STRUCTURE	1372834.87	689969.0 <sup>,</sup>
DS1-6	20.54	12.31	12.31	NYSDOT STRUCTURE	1372977.60	689922.0
DS1-7	20.74	13.07	13.07	NYSDOT STRUCTURE	1373118.16	689863.2
DS1-8	20.97	13.82	13.82	NYSDOT STRUCTURE	1373257.96	689804.8
DS1-9	20.89	14.09	14.09	NYSDOT STRUCTURE	1373238.60	689754.4
DS1-10	20.82	14.48	14.48	NYSDOT STRUCTURE	1373308.58	689723.3
DS1-11	20.56	14.94	14.94	NYSDOT STRUCTURE	1373392.73	689683.9
DS1-12	20.52	15.69	15.69	NYSDOT STRUCTURE	1373527.70	689621.8
DS1-12	20.66	16.31	16.31	NYSDOT STRUCTURE	1373642.73	689574.5
		10.31				
DS1-14	20.96		16.62	NYSDOT STRUCTURE	1373668.96	689631.5
DS1-15	13.29		9.29	NYSDOT STRUCTURE	1373144.24	690466.1
ES1	10.94	7.76		CMP END SECTION	1373017.76	690549.1
			NE	TWORK 2		
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS2	14.01	8.68	8.50	NYSDOT STRUCTURE	1373593.64	690392.8
		8.50				
DS2-1	13.80	9.23	9.23	NYSDOT STRUCTURE	1373449.84	690416.79
DS2-2	13.53		10.03	NYSDOT STRUCTURE	1373291.69	690442.3
DS2-3	13.73	9.15	9.15	NYSDOT STRUCTURE	1373681.77	690361.00
DS2-4	13.53		9.73	NYSDOT STRUCTURE	1373793.63	690331.42
ES2	11.04	8.37		CMP END SECTION	1373608.15	690430.67
			NE	TWORK 3		
STRUCTURE	RIM	INV(S) IN	INV OUT	ТҮРЕ	NORTHING	EASTING
		9.57				
DS3	14.59	10.43 10.09	9.57	NYSDOT STRUCTURE	1374139.82	690311.7
DS3-1	16.54	12.04	11.54	NYSDOT STRUCTURE	1374146.75	690136.0
DS3-2	18.98	13.67	13.67	NYSDOT STRUCTURE	1374121.96	689927.1
DS3-3	20.07	15.59 14.55	14.55	NYSDOT STRUCTURE	1374047.44	689841.4
DS3-4	20.50	14.97	14.97	NYSDOT STRUCTURE	1374015.32	689764.2
DS3-5	20.50	15.38	15.38	NYSDOT STRUCTURE	1373982.78	689687.04
DS3-6	20.50	15.81	15.81	NYSDOT STRUCTURE	1373950.23	689608.9
DS3-7	20.50	16.02	16.02	NYSDOT STRUCTURE	1373933.50	689568.8
DS3-8	20.50	16.24	16.24	NYSDOT STRUCTURE	1373916.96	689529.8
DS3-9	20.50	16.46	16.46	NYSDOT STRUCTURE	1373900.43	689489.2
DS3-10	20.40	16.90 16.58	16.58	NYSDOT STRUCTURE	1373890.52	689466.7
DS3-11	20.35		17.38	NYSDOT STRUCTURE	1373744.03	689531.7
DS3-11	20.33		17.50	NYSDOT STRUCTURE	1374000.31	689420.6
		40.44				
DS3-13	20.59	16.44	16.44	NYSDOT STRUCTURE	1374215.20	689812.8
DS3-14	20.55		17.26	NYSDOT STRUCTURE	1374366.78	689752.2
DS3-15	15.02	10.06	10.06	NYSDOT STRUCTURE	1374042.18	690306.8
DS3-16	14.67	11.17	10.67	NYSDOT STRUCTURE	1373919.51	690300.5
DS3-17	16.50	13.50	13.00	NYSDOT STRUCTURE	1373881.39	690168.1
DS3-18	18.13		15.09	NYSDOT STRUCTURE	1373843.35	690035.9
DS3-19	14.57	11.02	11.02	NYSDOT STRUCTURE	1374257.92	690317.7
DS3-20	15.07		11.57	NYSDOT STRUCTURE	1374367.98	690323.9
ES3	12.58	9.40		CMP END SECTION	1374139.86	690350.1
		1	NF	i TWORK 4	I	L
STRUCTURE	RIM	INV(S) IN		ТҮРЕ	NORTHING	EASTING
		10.43				
DS4	14.52	9.57 10.50	9.52	NYSDOT STRUCTURE	1374689.95	690330.6
DS4-1	16.50	11.38	11.38	NYSDOT STRUCTURE	1374749.79	690164.2
DS4-2	18.66		13.35	NYSDOT STRUCTURE	1374784.09	689963.2
DS4-3	15.14	11.05	11.05	NYSDOT STRUCTURE	1374566.95	690329.1
DS4-4	15.55	12.05	11.55	NYSDOT STRUCTURE	1374466.69	690327.9
DS4-5	16.58	13.08	12.98	NYSDOT STRUCTURE	1374481.61	690177.5
DS4-6	18.06	-	14.56	NYSDOT STRUCTURE	1374482.36	690023.98
DS4-0	14.10	10.11	10.01	NYSDOT STRUCTURE	1374775.70	690354.3
		10.11				
DS4-8	14 64	1	10 64	NYSDOT STRUCTURE	1374879 33	6903754

10.64 NYSDOT STRUCTURE 1374879.33 690375.41

CMP END SECTION 1374686.71 690364.94

## STRUCTURE T

		SIRU			JNT.)	
				TWORK 5	1	
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS5	17.62	10.87 8.73	8.73	NYSDOT STRUCTURE	1375555.32	690258.19
DS5-1	15.86	9.48	9.38	NYSDOT STRUCTURE	1375544.91	690388.18
DS5-2	15.31	10.00	10.00	NYSDOT STRUCTURE	1375441.73	690393.71
DS5-3	14.62		10.62	NYSDOT STRUCTURE	1375316.98	690393.68
DS5-4	19.19	11.81	11.71	NYSDOT STRUCTURE	1375567.28	690092.37
DS5-5	19.83	12.85	12.75	NYSDOT STRUCTURE	1375378.09	690080.72
DS5-6	19.31	13.63	13.63	NYSDOT STRUCTURE	1375222.43	690072.18
DS5-7	18.84	0.50	14.31	NYSDOT STRUCTURE	1375098.98	690016.64
ES5	11.17	8.50			1375599.41	690260.95
				TWORK 6	1	
STRUCTURE	RIM	INV(S) IN	INV OUT	ТҮРЕ	NORTHING	EASTING
DS6	19.84	8.55 14.55	8.55	NYSDOT STRUCTURE	1375581.00	689725.61
DS6-1	20.63	9.05	9.05	NYSDOT STRUCTURE	1375487.52	689690.63
DS6-2	20.50	9.54	9.54	NYSDOT STRUCTURE	1375389.41	689679.32
DS6-3	20.50	10.14	10.14	NYSDOT STRUCTURE	1375268.69	689673.63
DS6-4	20.50	14.57 10.57	10.57	NYSDOT STRUCTURE	1375185.29	689691.50
DS6-5	18.90	11.79	11.79	NYSDOT STRUCTURE	1374941.78	689684.09
DS6-6	18.50	12.80	12.80	NYSDOT STRUCTURE	1374740.25	689673.81
DS6-7	18.90	13.64	13.64	NYSDOT STRUCTURE	1374572.38	689665.83
DS6-8	20.50	14.42	14.42	NYSDOT STRUCTURE	1374435.02	689592.48
DS6-9	20.99	15.04	15.04	NYSDOT STRUCTURE	1374389.86	689478.22
DS6-10	20.57	15.95	15.95	NYSDOT STRUCTURE	1374311.52	689313.86
DS6-11	20.46	16.50	16.50	NYSDOT STRUCTURE	1374200.61	689325.51
DS6-12	20.74		17.00	NYSDOT STRUCTURE	1374103.21	689344.18
DS6-13	20.10		15.10	NYSDOT STRUCTURE	1375180.02	689798.34
DS6-14	19.80		15.30	NYSDOT STRUCTURE	1375576.32	689876.35
ES6	11.42	8.24		CMP END SECTION	1375642.80	689725.43
			NE	TWORK 7		
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING
DS7	18.93	12.05 11.46	11.46	NYSDOT STRUCTURE	1375609.02	689567.90
DS7-1	20.55	12.85	12.85	NYSDOT STRUCTURE	1375449.21	689572.28
DS7-2	20.50	13.66	13.66	NYSDOT STRUCTURE		689563.66
DS7-3	20.50	14.41	14.41	NYSDOT STRUCTURE		689557.17
DS7-4	20.49	15.16	15.16	NYSDOT STRUCTURE		689549.50
DS7-5	20.86	15.82	15.72	NYSDOT STRUCTURE	1374875.35	689542.60
DS7-6	20.50	16.81	16.50	NYSDOT STRUCTURE	1374740.71	689538.37
D97 7		16.18			1274602.76	
DS7-7	20.50	16.74	17.50	NYSDOT STRUCTURE		689529.78
DS7-8 DS7-9	20.50 20.61	16.71	16.61 17.00	NYSDOT STRUCTURE		689452.51 689395.47
DS7-9 DS7-10	19.57	11.97	17.00	NYSDOT STRUCTURE		689395.47 689483.79
DS7-10 DS7-11	20.00	12.45	12.45	NYSDOT STRUCTURE		689396.85
DS7-11 DS7-12	20.00	13.13	13.13	NYSDOT STRUCTURE		689366.00
DS7-12	20.89	13.96	13.96	NYSDOT STRUCTURE		689331.11
DS7-13	20.83	14.20	14.20	NYSDOT STRUCTURE		689324.34
DS7-14	20.80	14.83	14.83	NYSDOT STRUCTURE		689316.34
DS7-16	20.80	15.33	15.33	NYSDOT STRUCTURE		689309.81
DS7-10	20.83	15.83	15.83	NYSDOT STRUCTURE		689307.09
DS7-18	20.50	16.35	16.35	NYSDOT STRUCTURE		689319.75
DS7-19	20.50	· · ·	17.00	NYSDOT STRUCTURE		689310.29
ES7	14.37	11.19		CMP END SECTION	1375648.89	689581.58
	<u>I</u>	1	NET	i Work 9	1	·]
STRUCTURE	RIM	INV(S) IN		-		EASTING
DS9	18.15	(~) ""	16.50			89791.97
ES9	17.65	16.00				89720.92
		.0.00	רוא∩פ			
STDUATURE		INV(S) IN	_			EASTING
STRUCTURE	RIM		INV OUT		NORTHING	EASTING
ES-P1	12.06	13.00		CMP END SECTION	1373783.29	689299.55 689618 12
ES-P2 PO-1	14.93 16.00	13.77	13.50	CMP END SECTION	1373135.01 1373801.49	689618.12 689349.54
PO-1 PO-2	16.00		13.50	NYSDOT STRUCTURE		689349.54 689657.65

DS4-8

14.64

ES4 12.53 9.35

TABLE (C	ONT.)
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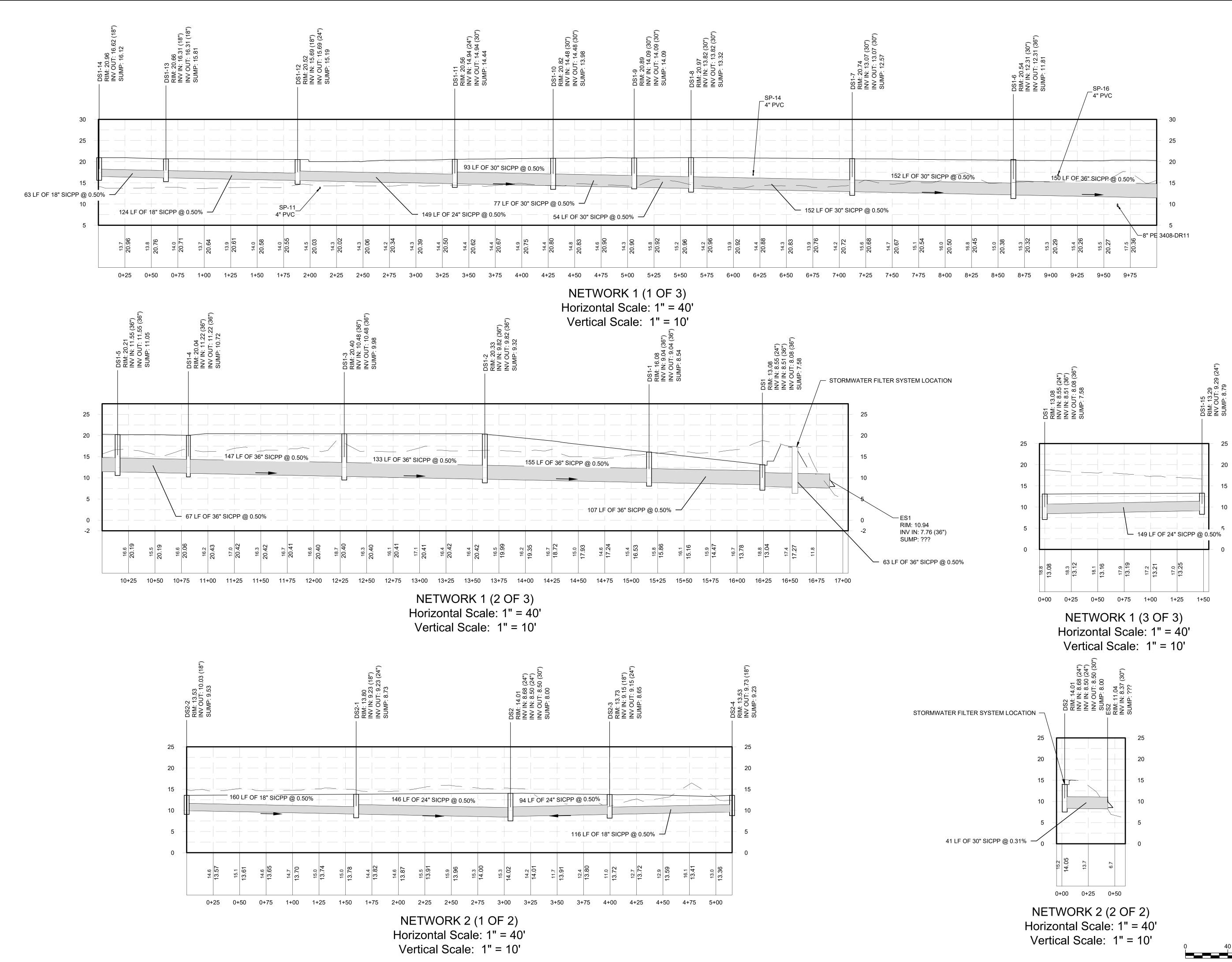
			ETWOR		FROM	то
NAME	SIZE	LENGTH	SLOPE	MAT.	STRC	STR
DP1	36"	63.43'	0.50%	SICPP	DS1	ES1
DP1-1	36"	107.08'	0.50%	SICPP	DS1-1	DS1
DP1-2	36"	155.16'	0.50%	SICPP	DS1-2	DS1-
DP1-3	36"	132.81'	0.50%	SICPP	DS1-3	DS1-
DP1-4	36"	147.34'	0.50%	SICPP	DS1-4	DS1-
DP1-5	36" 36"	66.55' 150.27'	0.50%	SICPP	DS1-5 DS1-6	DS1- DS1-
DP1-6	30"	150.27	0.50%	SICPP	DS1-6 DS1-7	DS1-
DP1-8	30"	151.52'	0.50%	SICPP	DS1-7	DS1-
DP1-9	30"	53.99'	0.50%	SICPP	DS1-0	DS1-
DP1-10	30"	76.60'	0.50%	SICPP	DS1-10	DS1-
DP1-11	30"	92.92'	0.50%	SICPP	DS1-11	DS1-'
DP1-12	24"	148.55'	0.50%	SICPP	DS1-12	DS1-
DP1-13	18"	124.39'	0.50%	SICPP	DS1-13	DS1-
DP1-14	18"	62.75'	0.50%	SICPP	DS1-14	DS1-
DP1-15	24"	148.61'	0.50%	SICPP	DS1-15	DS1
			TWOR		20110	
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STR
DP2	30"	40.51'	0.31%	SICPP	DS2	ES2
DP2-1	24"	145.78'	0.50%	SICPP	DS2 DS2-1	DS2
DP2-1	18"	160.20'	0.50%	SICPP	DS2-1	D32
DP2-2	24"	93.70'	0.50%	SICPP	DS2-2	DS2-
DP2-4	18"	115.71'	0.50%	SICPP	DS2-3	DS2-
DI 2-4	10				002-4	002-
					FDOM	то
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STR
DP3	36"	38.38'	0.44%	SICPP	DS3	ES3
DP3-1	30"	175.81'	0.83%	SICPP	DS3-1	DS3
DP3-2	24"	210.39'	0.78%	SICPP	DS3-2	DS3-
DP3-3	24"	113.57'	0.77%	SICPP	DS3-3	DS3-
DP3-4	24"	83.67'	0.50%	SICPP	DS3-4	DS3-
DP3-5	24"	83.75'	0.50%	SICPP	DS3-5	DS3-
DP3-6	24"	84.60'	0.50%	SICPP	DS3-6	DS3-
DP3-7	18"	43.45'	0.50%	SICPP	DS3-7	DS3-
DP3-8	18" 18"	42.33'	0.50%	SICPP	DS3-8	DS3-
DP3-9	18	43.84'	0.50%	SICPP	DS3-9	DS3-
DP3-10	18	24.59' 160.26'	0.50%	SICPP	DS3-10 DS3-11	DS3-
DP3-11			0.50%	SICPP		
DP3-12 DP3-13	12" 18"	119.07' 170.19'	0.50%	SICPP	DS3-12 DS3-13	DS3- <sup>-</sup> DS3-
DP3-13 DP3-14	18" 12"	170.19	0.50%	SICPP	DS3-13 DS3-14	DS3-
DP3-14 DP3-15	24"	97.76'	0.50%	SICPP	DS3-14 DS3-15	DS3-
DP3-15 DP3-16	24"	122.84'	0.50%	SICPP	DS3-15 DS3-16	DS3-
DP3-16 DP3-17	24" 18"	122.84	1.33%	SICPP	DS3-16 DS3-17	DS3-*
DP3-17 DP3-18	18"	137.63	1.33%	SICPP	DS3-17 DS3-18	DS3-
DP3-16 DP3-19	18"	137.57	0.50%	SICPP	DS3-18 DS3-19	DS3- DS3
DP3-19	18"	110.23	0.50%	SICPP	DS3-19 DS3-20	DS3-
2, 0-20	10		ETWORK		200-20	
				. т 	FROM	то
NAME	SIZE	LENGTH	SLOPE	MAT.	STRC	STR
DP4	36"	34.49'	0.50%	SICPP	DS4	ES4
DP4-1	18"	176.82'	0.50%	SICPP	DS4-1	DS4
DP4-2	12"	203.91'	0.97%	SICPP	DS4-2	DS4-
DP4-3	24"	123.02'	0.50%	SICPP	DS4-3	DS4
DP4-4	24"	100.27'	0.50%	SICPP	DS4-4	DS4-
DP4-5	18"	151.15'	0.62%	SICPP	DS4-5	DS4-
DP4-6	18"	153.55'	0.96%	SICPP	DS4-6	DS4-
DP4-0 DP4-7	24"	88.96'	0.50%	SICPP	DS4-7	DS4

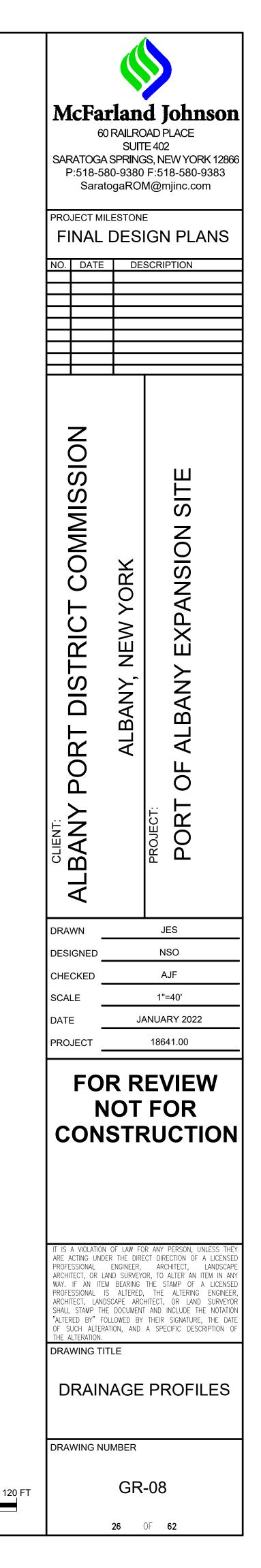
		PIPE	TABL	E (C	ONT.)	)	
		NE	TWORK	5			
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC	
DP5	30"	44.17'	0.51%	SICPP	DS5	ES5	
DP5-1	24"	130.41'	0.50%	SICPP	DS5-1	DS5	
DP5-2	24"	103.33'	0.50%	SICPP	DS5-2	DS5-1	
DP5-3	24"	124.75'	0.50%	SICPP	DS5-3	DS5-2	
DP5-4	18"	166.24'	0.50%	SICPP	DS5-4	DS5	
DP5-5	18"	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	
NETWORK 6							
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC	
DP6	36"	61.80'	0.50%	SICPP	DS6	ES6	
DP6-1	36"	99.82'	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	
				SICPP			
DP6-8	30"	155.71'	0.50%	_	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"	99.17'	0.50%	SICPP	DS6-12	DS6-11	
DP6-13	18"	106.97'	0.50%	SICPP	DS6-13	DS6-4	
DP6-14	18"	150.81'	0.50%	SICPP	DS6-14	DS6	
		NE	ETWORK	κ 7			
NAME	SIZE	LENGTH	SLOPE	MAT.	FROM STRC	TO STRC	
DP7	36"	42.15'	0.63%	SICPP	DS7	ES7	
DP7-1	24"	159.86'	0.50%	SICPP	DS7-1	DS7	
DP7-2	24"	161.48'	0.50%	SICPP	DS7-2	DS7-1	
DP7-3	24"	150.63'	0.50%	SICPP	DS7-3	DS7-2	
DP7-4	24"	149.80'	0.50%	SICPP	DS7-4	DS7-3	
DP7-5	24"	112.73'	112.73' 0.50% SICPP		DS7-5	DS7-4	
DP7-6	24"	134.71'	0.50%	SICPP	DS7-6	DS7-5	
DP7-7	12"	138.21'	0.50%	SICPP	DS7-7	DS7-6	
DP7-8	18"	85.94'	0.50%	SICPP	DS7-8	DS7-6	
DP7-9	18"	57.09'	0.50%				
DP7-10	_		0.0070	SICPP	DS7-9	DS7-8	
DI 7-10	30"	101.81'	0.50%	SICPP SICPP	DS7-9 DS7-10	DS7-8 DS7	
DP7-11	30" 30"					DS7	
DP7-11	30"	101.81' 89.14'	0.50% 0.54%	SICPP SICPP	DS7-10 DS7-11	DS7 DS7-10	
DP7-11 DP7-12	30" 30"	101.81' 89.14' 140.23'	0.50% 0.54% 0.48%	SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12	DS7 DS7-10 DS7-11	
DP7-11 DP7-12 DP7-13	30" 30" 30"	101.81' 89.14' 140.23' 166.54'	0.50% 0.54% 0.48% 0.50%	SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13	DS7 DS7-10 DS7-11 DS7-12	
DP7-11 DP7-12 DP7-13 DP7-14	30" 30" 30" 24"	101.81' 89.14' 140.23' 166.54' 47.72'	0.50% 0.54% 0.48% 0.50% 0.51%	SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14	DS7 DS7-10 DS7-11 DS7-12 DS7-13	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15	30" 30" 30" 24" 24"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86'	0.50% 0.54% 0.48% 0.50% 0.51% 0.50%	SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-14	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16	30" 30" 30" 24" 24" 24"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82'	0.50% 0.54% 0.48% 0.50% 0.51% 0.50%	SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17	30" 30" 30" 24" 24" 24" 24"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61'	0.50% 0.54% 0.48% 0.50% 0.51% 0.50% 0.50%	SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17	30" 30" 24" 24" 24" 18"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61' 102.80'	0.50% 0.54% 0.48% 0.50% 0.50% 0.50% 0.50% 0.50%	SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17 DS7-18	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17	30" 30" 30" 24" 24" 24" 24"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61'	0.50% 0.54% 0.48% 0.50% 0.51% 0.50% 0.50%	SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17	30" 30" 24" 24" 24" 18"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61' 102.80' 129.65'	0.50% 0.54% 0.48% 0.50% 0.50% 0.50% 0.50% 0.50%	SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17 DS7-18	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17	30" 30" 24" 24" 24" 18"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61' 102.80' 129.65'	0.50% 0.54% 0.48% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50%	SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17 DS7-18	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16 DS7-17 DS7-18	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17 DP7-18 DP7-19	30" 30" 24" 24" 24" 18" 18" 18"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61' 102.80' 129.65' NE	0.50% 0.54% 0.48% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50%	SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17 DS7-18 DS7-19 FROM	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16 DS7-17 DS7-18	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17 DP7-18 DP7-19	30" 30" 24" 24" 24" 18" 18" 18" SIZE	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61' 102.80' 129.65' NE LENGTH 93.53'	0.50% 0.54% 0.48% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% SLOPE	SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17 DS7-18 DS7-19 FROM STRC	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16 DS7-17 DS7-18 TO STRC	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17 DP7-18 DP7-19 NAME	30" 30" 24" 24" 24" 18" 18" 18" SIZE 18"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61' 102.80' 129.65' NE LENGTH 93.53' POND	0.50% 0.54% 0.48% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% SLOPE 0.53% OUTLE	SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17 DS7-18 DS7-19 FROM STRC DS9	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16 DS7-17 DS7-18 TO STRC ES9	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17 DP7-18 DP7-19	30" 30" 24" 24" 24" 18" 18" 18" SIZE	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61' 102.80' 129.65' NE LENGTH 93.53'	0.50% 0.54% 0.48% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 5.50% SLOPE 0.53%	SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17 DS7-18 DS7-19 FROM STRC	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16 DS7-17 DS7-18 TO STRC ES9 TO	
DP7-11 DP7-12 DP7-13 DP7-14 DP7-15 DP7-16 DP7-17 DP7-18 DP7-19 NAME	30" 30" 24" 24" 24" 18" 18" 18" SIZE 18"	101.81' 89.14' 140.23' 166.54' 47.72' 126.86' 99.82' 99.61' 102.80' 129.65' NE LENGTH 93.53' POND	0.50% 0.54% 0.48% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% 0.50% SLOPE 0.53% OUTLE	SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP SICPP	DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-17 DS7-18 DS7-19 STRC DS7-19 FROM STRC DS9	DS7 DS7-10 DS7-11 DS7-12 DS7-13 DS7-14 DS7-15 DS7-16 DS7-16 DS7-17 DS7-18 TO STRC ES9	

## PIPE TABLE (CONT.)

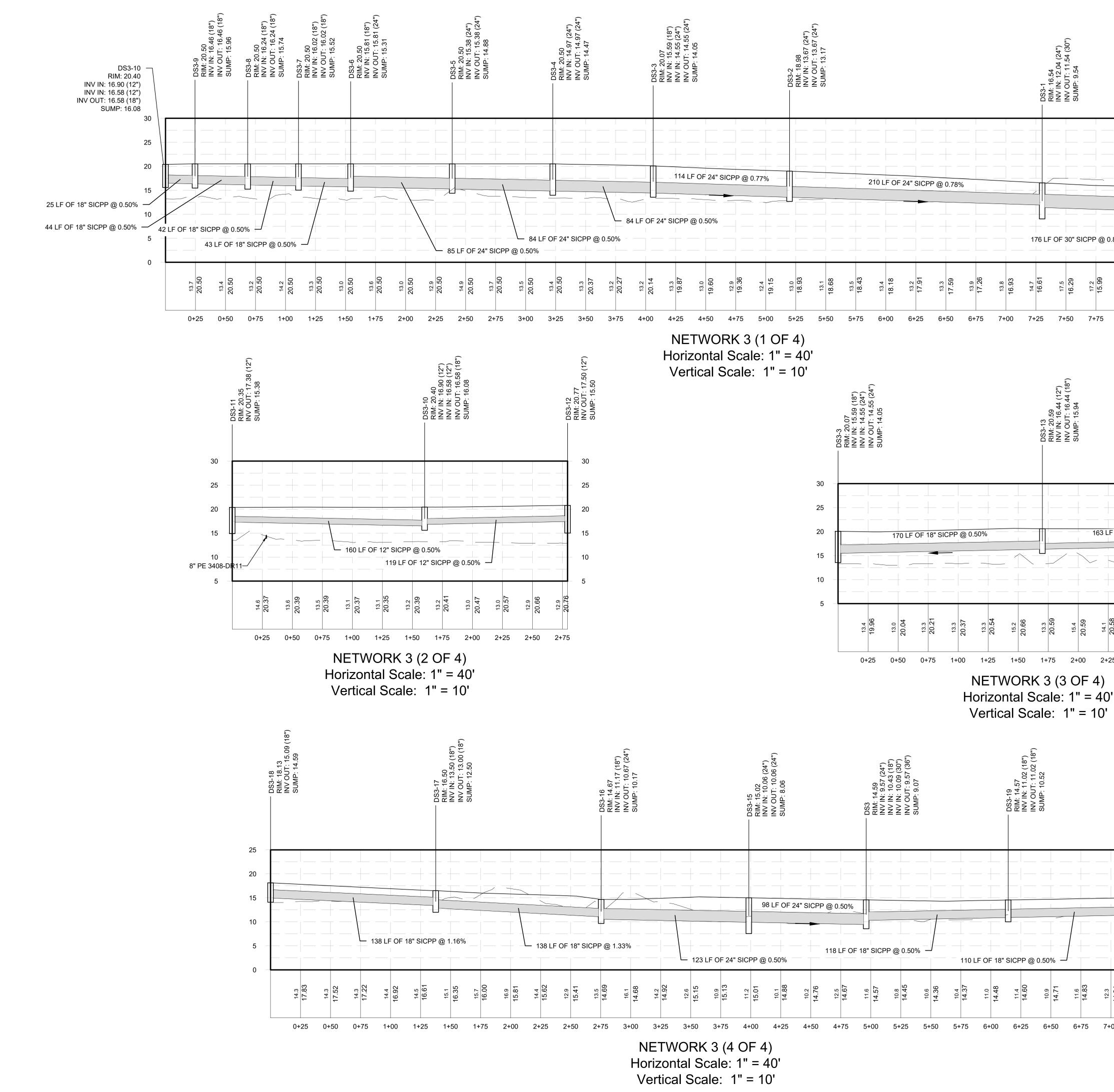
	0175			N / A
NAME	SIZE	LENGTH	SLOPE	MAT.
R1	12"	6.00'	0.50%	SICPF
R2	12"	50.00'	0.50%	SICPF
R3	12"	46.88'	0.50%	SICPF
R4	12"	13.16'	0.50%	SICPF
R5	12"	6.00'	0.50%	SICPF
R6	12"	6.00'	0.50%	SICPF
R7	12"	13.92'	2.87%	SICPF
R8	12"	13.93'	4.81%	SICPF
R9	12"	12.19'	16.07%	SICPF
R10	12"	22.50'	5.33%	SICPF
R11	12"	20.85'	6.72%	SICPF
			_	
R12	12"	19.62'	15.39%	SICPF
R13	12"	17.25'	12.29%	SICPF
R14	12"	14.02'	24.96%	SICPF
R15	12"	14.48'	14.84%	SICPF
R16	12"	17.76'	5.63%	SICPF
R17	12"	18.74'	14.20%	SICPF
R18	12"	18.73'	15.16%	SICPF
R19	12"	17.86'	5.60%	SICPF
R20	12"	18.71'	17.48%	SICPF
R21	12"	18.70'	19.09%	SICPF
R22	12"	18.36'	5.45%	SICPF
R23	12"	6.00'	0.50%	SICPF
R24	12"	50.50'	0.50%	SICPF
R25	12"	22.73'	0.50%	SICPF
R26	12"	23.57'	2.59%	SICPF
R27	12"	6.00'	4.67%	SICPF
R28	12"	6.00'	1.00%	SICPF
R29	12"	26.02'	1.27%	SICPF
R30	12"	63.15'	0.50%	SICPF
R31	12"	47.62'	0.50%	SICPF
R32	12"	51.69'	0.85%	SICPF
R33	12"	17.60'	3.18%	SICPF
R34	12"	8.23'	6.07%	SICPF
R35	12"	6.00'	0.50%	SICPF
R36	12"	50.00'	0.50%	SICPF
R37	12"	21.73'	3.22%	SICPF
R38	12"	6.00'	4.67%	SICPF
R39	12"	9.14'	2.44%	SICPF
R40	12"	42.62'	8.52%	SICPF
R41	12"	12.22'	31.43%	SICPF
R42	12"	11.04'	36.77%	SICPF
R43	12"	37.71'	11.75%	SICPF
R44	12"	26.18'	18.34%	SICPF
R45	12"	6.00'	0.50%	SICPF
R46	12"	30.29'	0.50%	SICPF
R47	12"	22.40'	0.31%	SICPF
R48	12"	6.02'	7.14%	SICPF
R49	12"	50.27'	0.50%	SICPF
R50	12"	6.01'	2.65%	SICPF
R51	12"	10.83'	4.62%	SICPF
R52	12"	13.17'	4.63%	SICPF
R53	12"	13.02'	6.83%	SICPF
R54	12"	11.56'	4.32%	SICPF
R55	12"	13.30'	10.08%	SICPF
R56	12"	12.66'	14.14%	SICPF
R57	12"	9.86'	5.07%	SICPF
R58	12"	5.35'	9.34%	SICPF
R59	12"	5.00'	0.50%	SICPF
	12"		0.50%	SICPF
R60		50.00'		
R61	12"	8.65'	0.41%	SICPF
R62	12"	50.00'	0.50%	SICPF
R63	12"	5.00'	5.40%	SICPF
R64	12"	38.59'	0.50%	SICPF
R65	12"	5.00'	10.40%	SICPF
R66	12"	7.37'	9.64%	SICPF

SAF F PRO	60 F RATOGA S 2:518-580 Sarato JECT MILI	RAILRO SUIT SPRING 0-9380 gaROI ESTONI	A Johnson DAD PLACE E 402 DSS, NEW YORK 12866 F:518-580-9383 W@mjinc.com E GN PLANS SCRIPTION		
	ALBANY PORT DISTRICT COMMISSION	ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE		
DRA	_		JES		
	IGNED		NSO AJF		
SCA	_		N.T.S.		
DATE	= <b>-</b>	JÆ	ANUARY 2022		
PRO	JECT		18641.00		
PROJECT       18641.00         FROR REVIEW       State         State       State					
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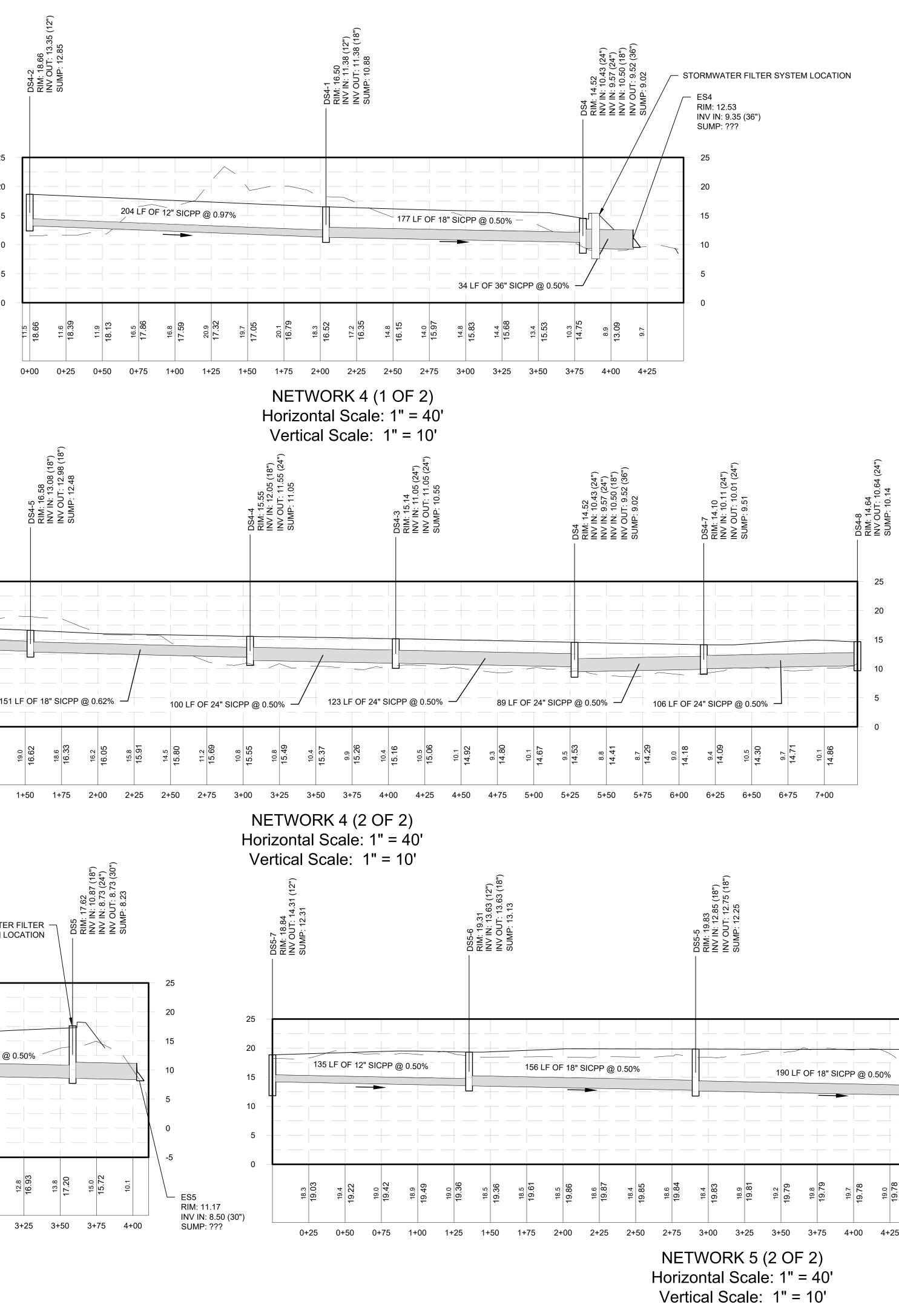


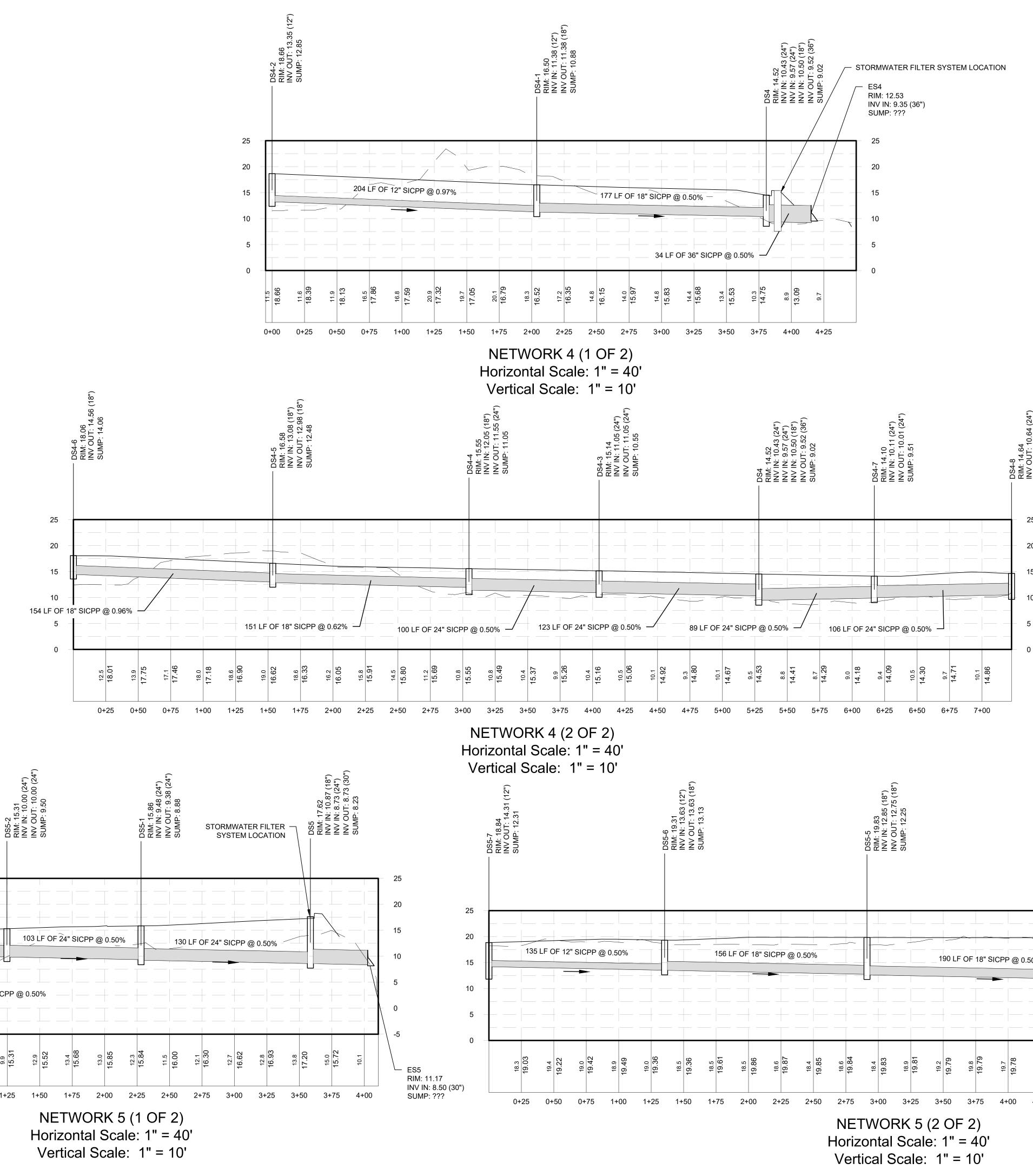


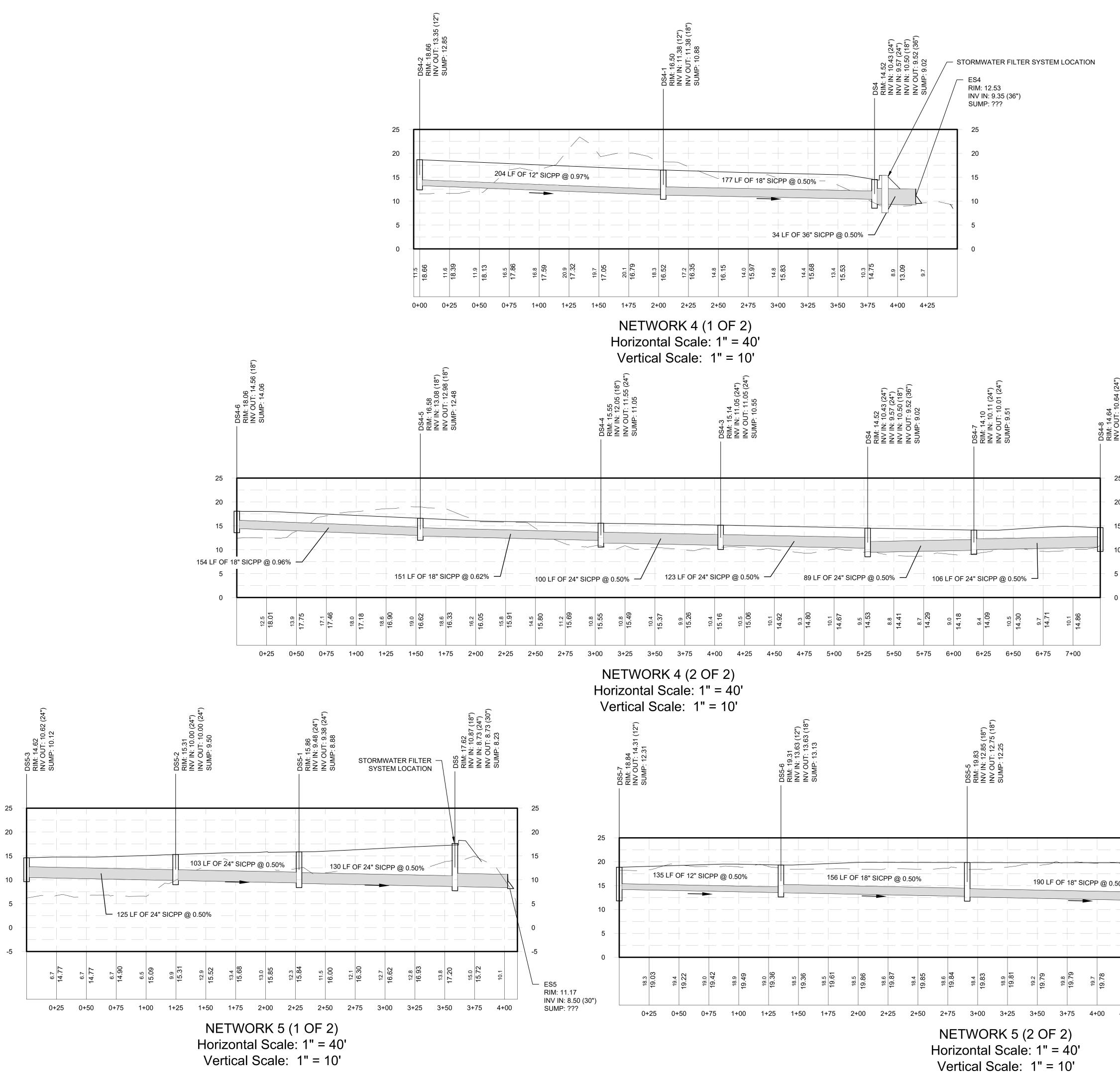
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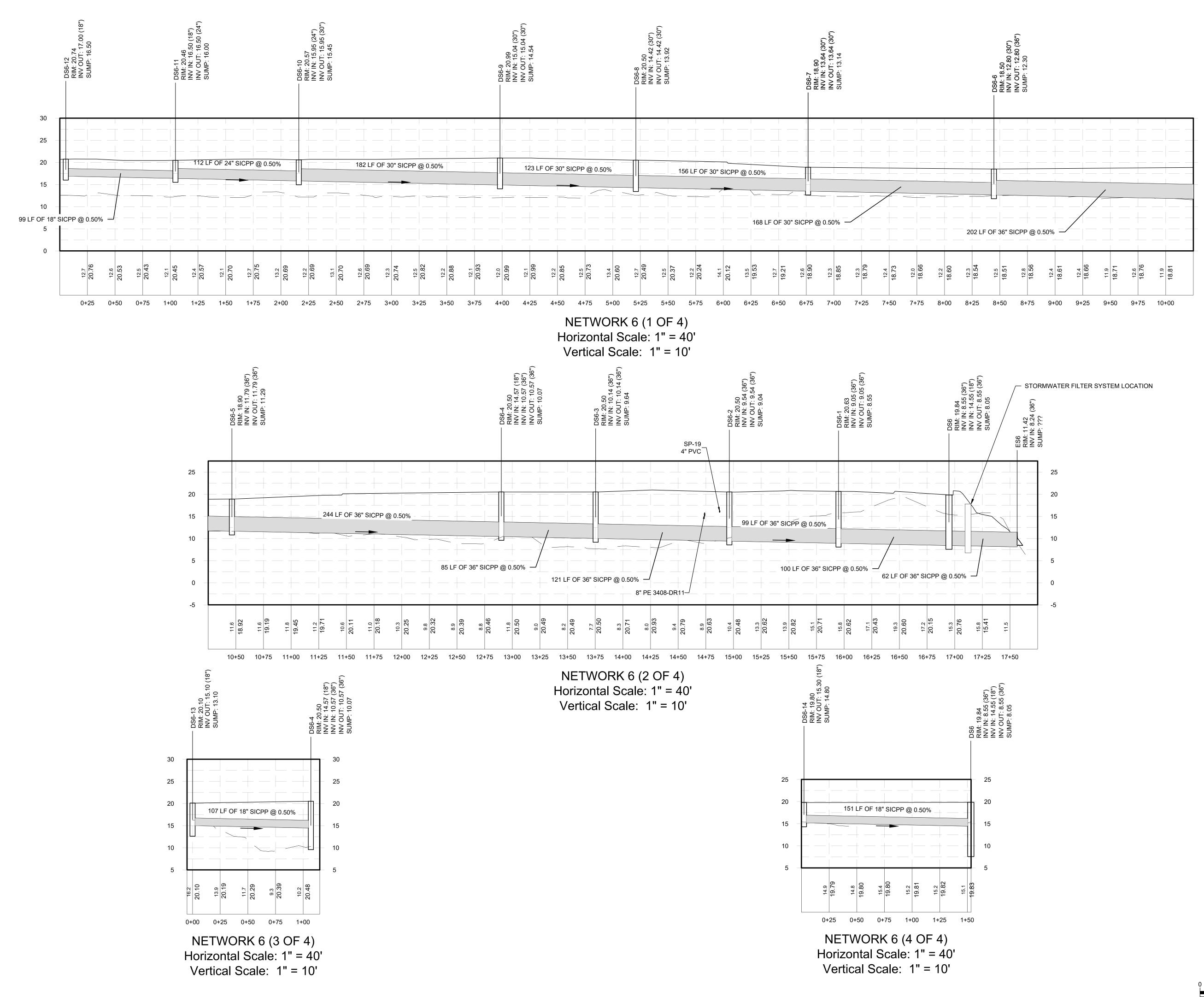
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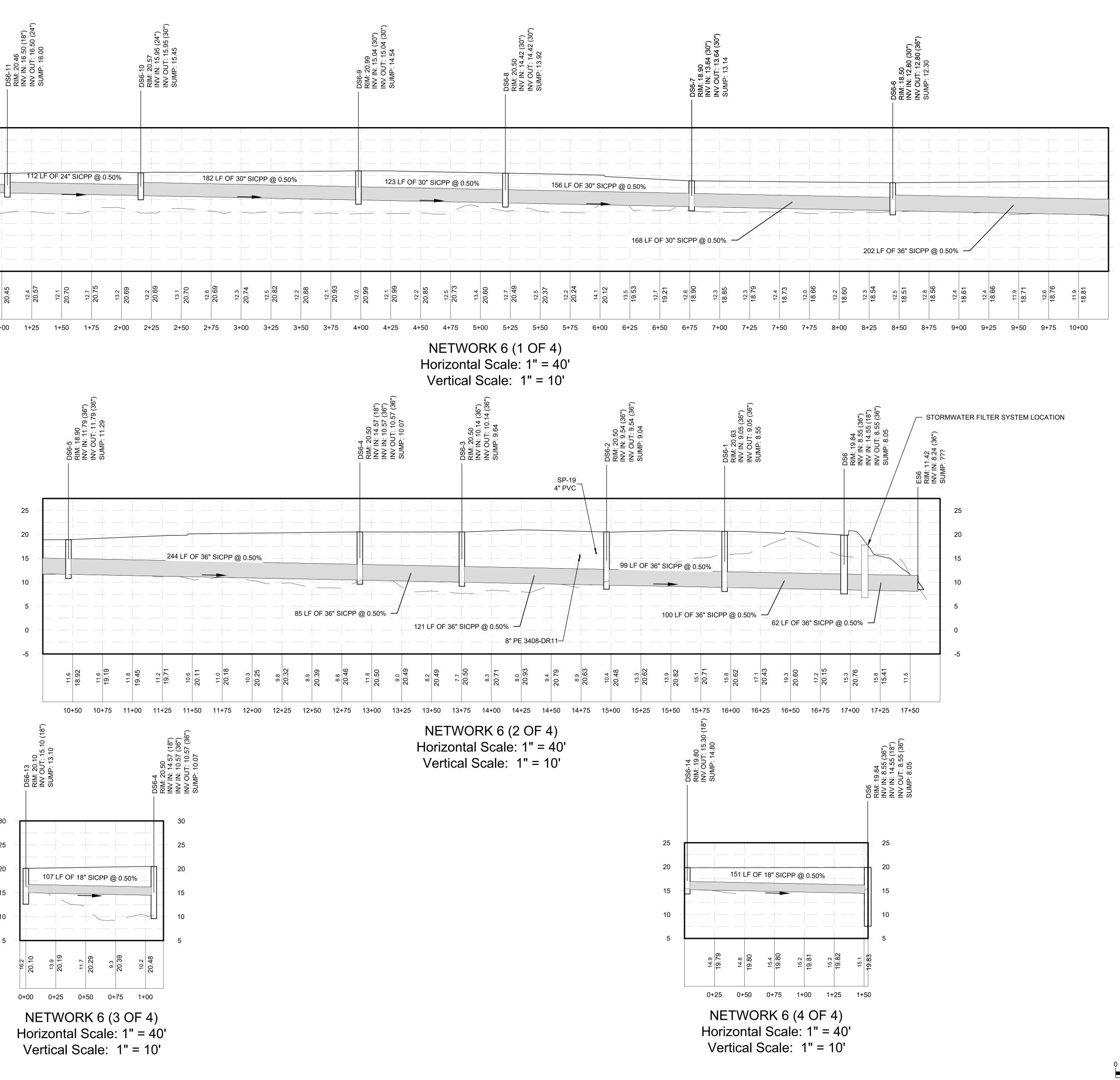




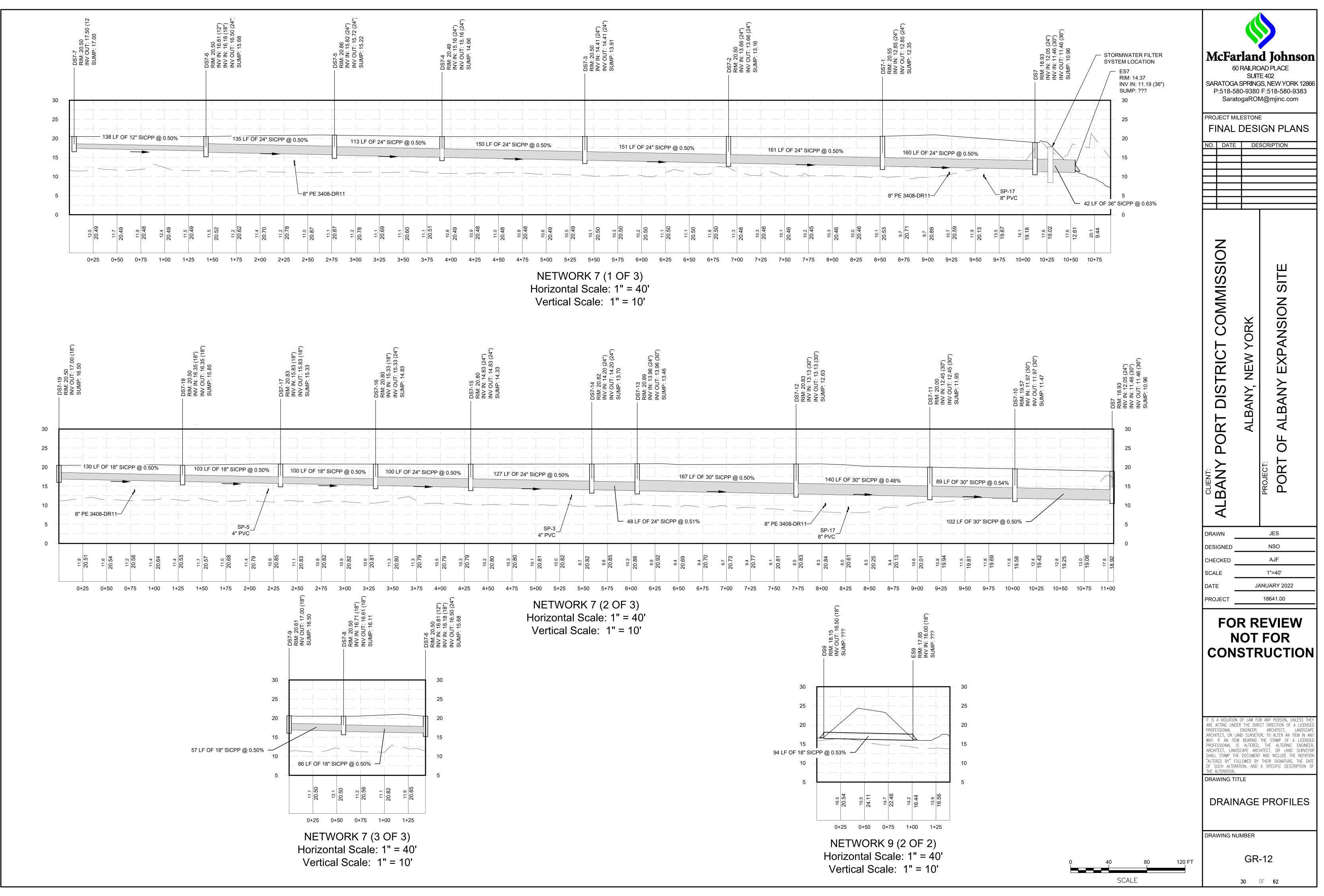


	McFarland Johnson 60 RAILROAD PLACE SUITE 402 SARATOGA SPRINGS, NEW YORK 12866 P:518-580-9380 F:518-580-9383 SaratogaROM@mjinc.com PROJECT MILESTONE FINAL DESIGN PLANS
	CLENT: ALBANY PORT DISTRICT COMMISSION ALBANY, NEW YORK PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT
DS5-4 RIM: 19.19 INV UN: 11.81 (18") INV OUT: 11.21 INV OUT: 11.21 SUMP: 11.21 SUMP: 17.62 INV IN: 10.87 (18") INV OUT: 8.73 (30") SUMP: 8.23 SUMP: 8.23	DESIGNED NSO CHECKED AJF SCALE 1"=40' DATE JANUARY 2022 PROJECT 18641.00 <b>FOR REVIEW</b> <b>NOT FOR</b> <b>NOT FOR</b>
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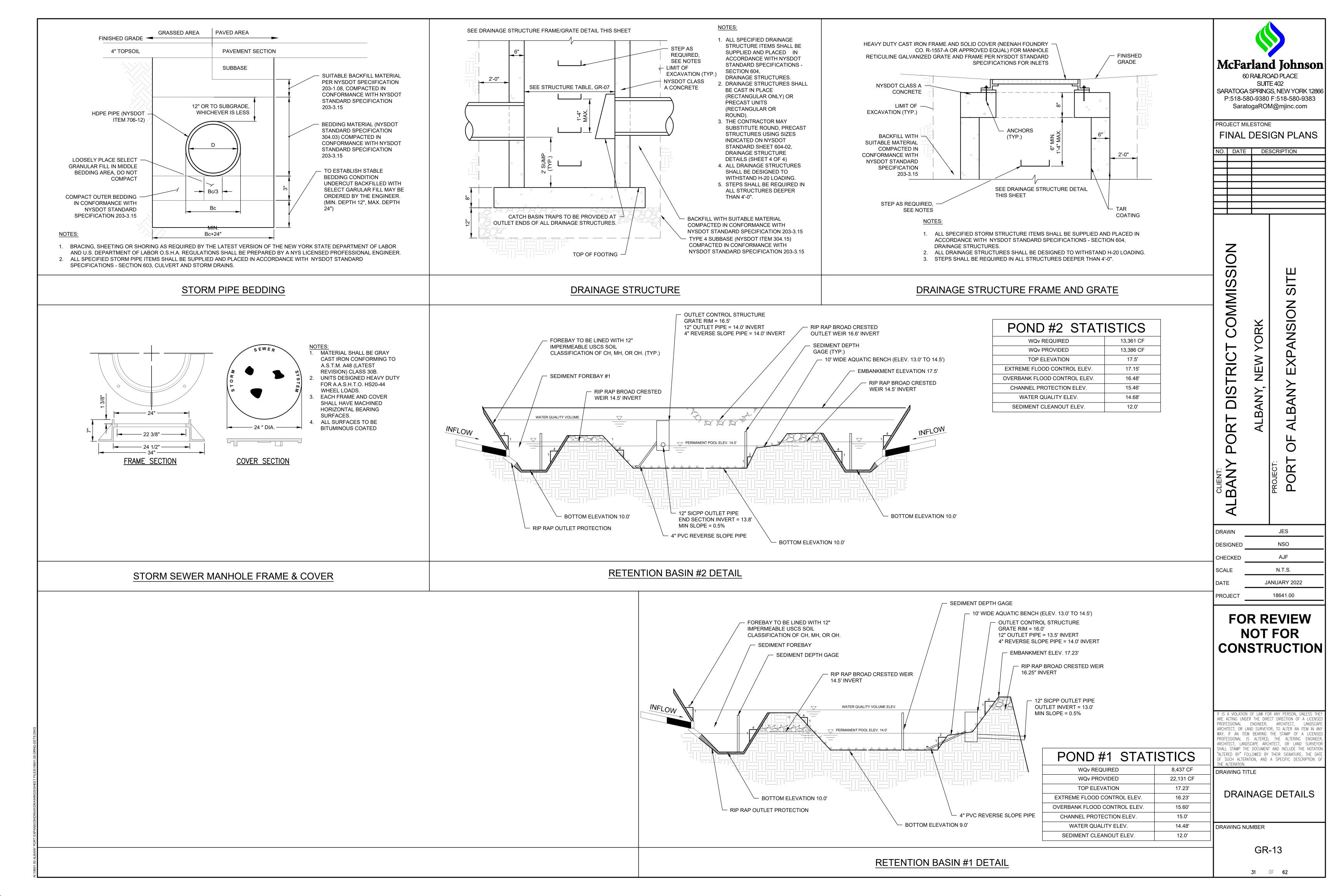


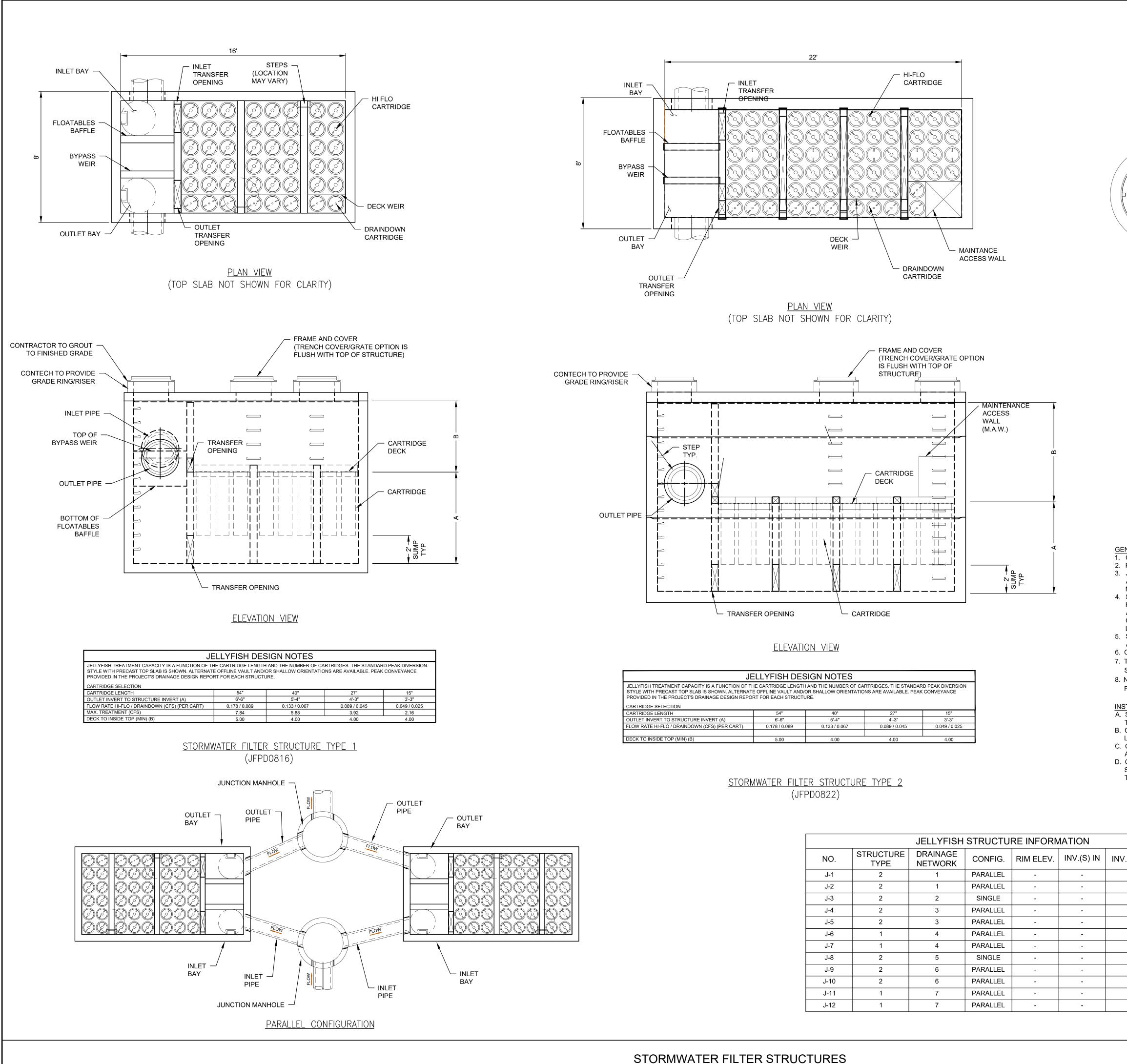


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JELLYFISH DESIGN NOTES							
JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK DIVERSION STYLE WITH PRECAST TOP SLAB IS SHOWN. ALTERNATE OFFLINE VAULT AND/OR SHALLOW ORIENTATIONS ARE AVAILABLE. PEAK CONVEYANCE PROVIDED IN THE PROJECT'S DRAINAGE DESIGN REPORT FOR EACH STRUCTURE. CARTRIDGE SELECTION							
CARTRIDGE LENGTH	54"	40"	27"	15"			
OUTLET INVERT TO STRUCTURE INVERT (A)         6'-6"         5'-4"         4'-3"         3'-3"							
FLOW RATE HI-FLO / DRAINDOWN (CFS) (PER CART)         0.178 / 0.089         0.133 / 0.067         0.089 / 0.045         0.049 / 0.025							
DECK TO INSIDE TOP (MIN) (B)	5.00	4.00	4.00	4.00			

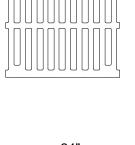
### STORMWATER FILTER STRUCTURES

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CONTECH

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





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

SITE SPECIFIC DATA REQUIREMENTS							
STRUCTURE	ID					*	
WATER QUA	LITY FLO	W RATE (	cfs)			*	
PEAK FLOW	RATE (cfs	;)				*	
RETURN PER		PEAK FLO	W (yrs)			*	
# OF CARTR	IDGES RE	QUIRED	(HF / DD)			*	
CARTRIDGE	LENGTH		<u>,                                    </u>			*	
PIPE DATA:	I.E.	MAT'L	DIA	SLOPE	5 %	HGL	
INLET #1	*	*	*	*		*	
INLET #2	*	*	*	*		*	
OUTLET	*	*	*	*		*	
SEE GENERAL NOTES 6-7 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.							
RIM ELEVATION *							
ANTI-FLOTA	FION BAL	LAST	WID	ГН	Н	EIGHT	
*						*	
NOTES/SPECIAL REQUIREMENTS:							
* PER ENGINEER OF RECORD							

#### 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.

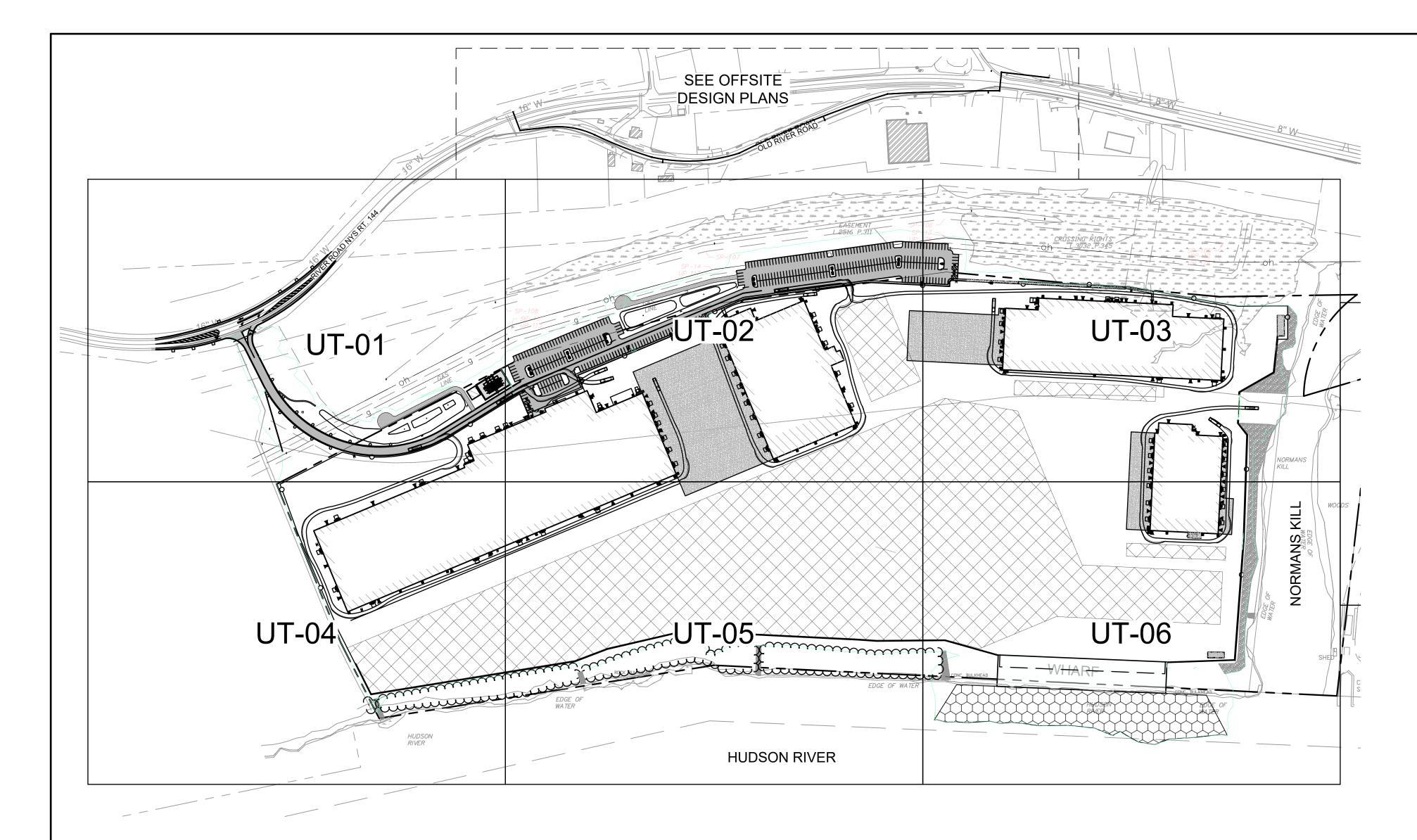
8. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

#### 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.

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#### WATER MAIN INSTALLATION

- 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. 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.
- 5. 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.
- 6. ALL MECHANICAL JOINTS, FITTINGS (TEES, BENDS, PLUGS), ETC. SHALL BE BACKED WITH 3,000 P.S.I. CONCRETE THRUST BLOCKS OR APPROVED MECHANICAL RESTRAINTS.
- 7. 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.
- 8. 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.
- 9. WATER SERVICE LINES SHALL BE SEPARATED AT LEAST 10 FEET, MEASURED FROM OUTSIDE OF THE PIPES, FROM SEWER MAINS AND SEPTIC SYSTEMS.
- 10. BACKFLOW PREVENTION SHALL BE PROVIDED IN BUILDING. (SEE BUILDING PLANS)
- 11. 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.

#### WATER MAIN MATERIALS:

- 1. POLYVINYL CHLORIDE (PVC) PIPE MUST BE WITH INTEGRAL BELL AND SPIGOT JOINTS; CLASS 150, DR 18; CONFORMING WITH THE LATEST REVISION OF ANSI/AWWA C900 (FOR 4"-12" PIPE) OR C905 (FOR LARGER PIPE) STANDARD. MAXIMUM DEFLECTION OF 12" POLYVINYL CHLORIDE (PVC) AWWA C900 WATER LINE IS 0.7' FOR 20' LENGTHS. INSTALLATION TO INCLUDE TRACER TAPE AS PER MANUFACTURER'S INSTRUCTIONS.
- 2. CEMENT-LINED DUCTILE-IRON (DI) PIPE MUST BE CLASS 52 MINIMUM CONFORMING WITH THE LATEST REVISION OF ANSI/AWWA C151 STANDARD. IF REQUIRED BY WATER SUPPLIER THE PIPE SHALL BE ENCASED WITH A MINIMUM 8 MIL. POLYETHYLENE WRAP AS PER LATEST REVISION OF ANSI/AWWA C105 STANDARD.
- 3. POLYETHYLENE (PE) PRESSURE PIPE MUST BE PE 3408 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/AWWS C105/AZ1.5-82 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, TABLET 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:

- 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.

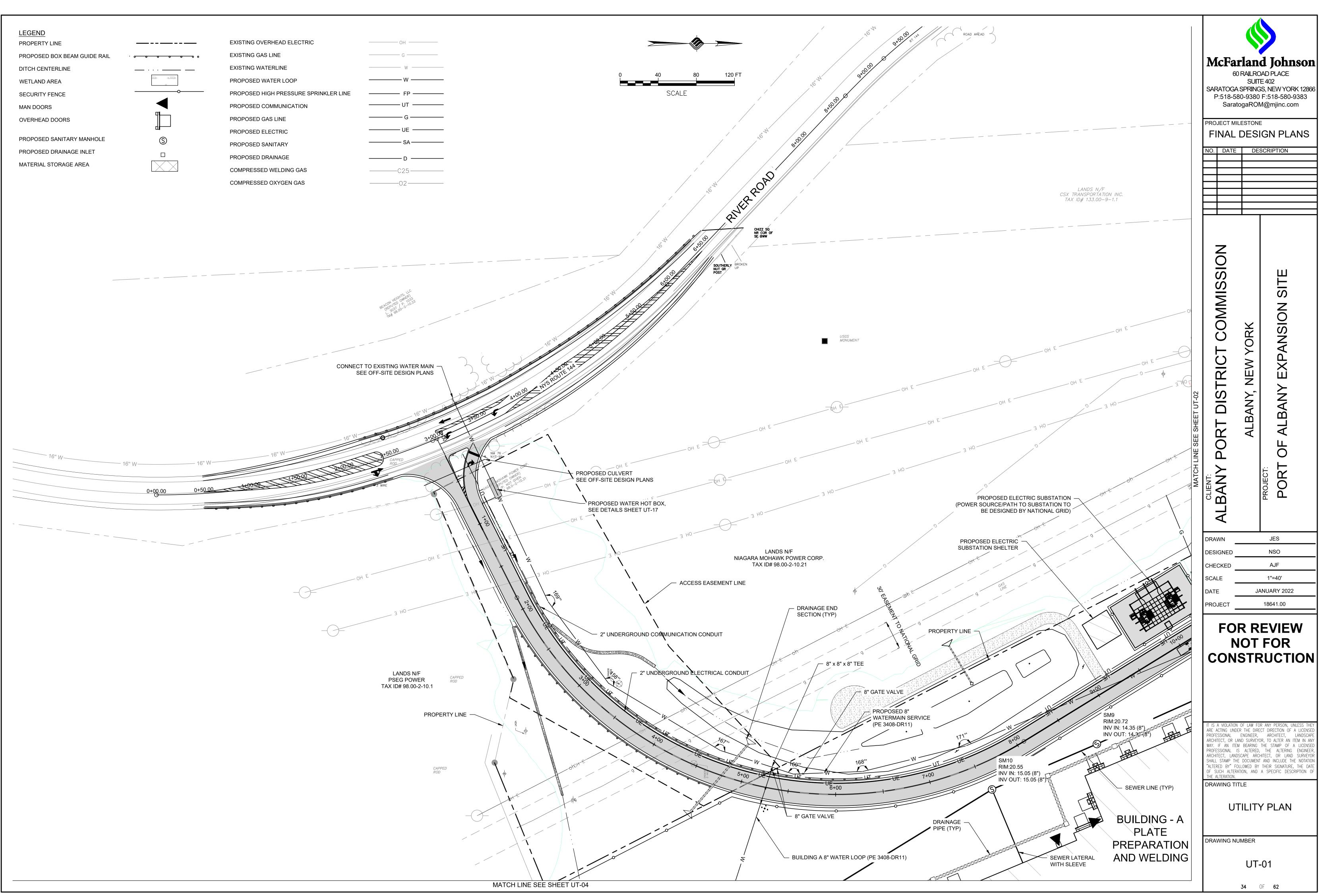
- DISINFECTION BY USING THE CONTINUOUS FEED METHOD ACCORDING TO AWWA STANDARD SPECIFICATIONS. AFTER FLUSHING AND DISINFECTING THE SERVICE LINE, WATER SAMPLES SHALL BE COLLECTED BY THE ALBANY COUNTY HEALTH DEPARTMENT. APPROVAL AND NOTIFICATION BY THE HEALTH DEPARTMENT MUST BE RECEIVED BEFORE THE LATERAL IS PLACED IN SERVICE.

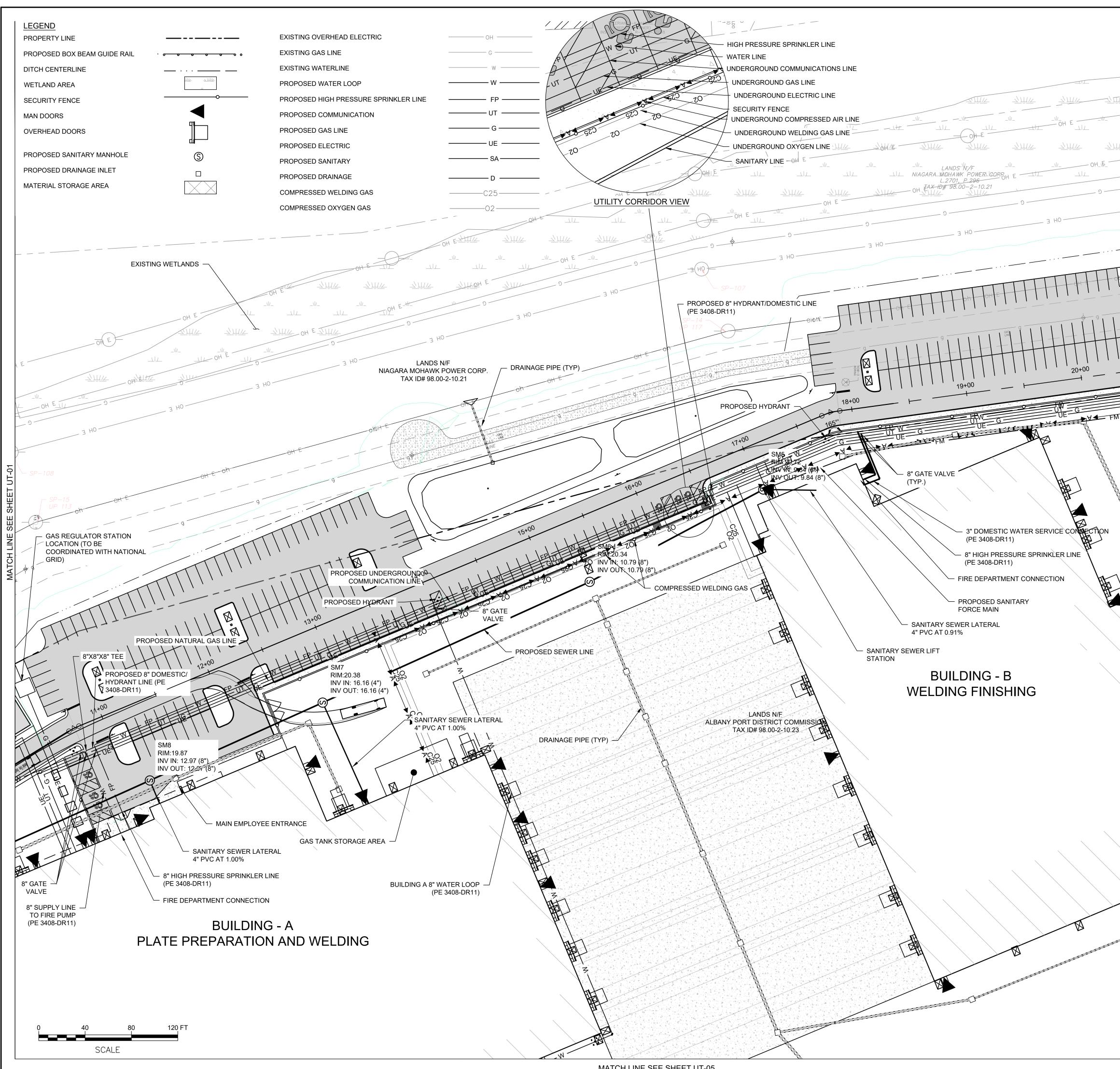
	LEGEND PROPERTY LINE WETLAND AREA STORAGE AREA DREDGING AREA PAVEMENT AREA CONCRETE AREA	McFarland Johnson         60 RAILROAD PLACE         SUITE 402         SARATOGA SPRINGS, NEW YORK 12866         P:518-580-9380 F:518-580-9383         SaratogaROM@mjinc.com         PROJECT MILESTONE         FINAL DESIGN PLANS         NO.       DATE         DESCRIPTION	
		PORT DISTRICT COMMISSION ALBANY, NEW YORK OF ALBANY EXPANSION SITE	
1.	NITARY SEWER NOTES: ONLY DOMESTIC WASTE FROM THE PROJECT SHALL BE DISCHARGED INTO THE SANITARY SEWER. ALL SANITARY LATERALS SHALL BE 6" PVC SDR-21 ASTM D2241 UNLESS OTHERWISE SPECIFIED ON THE PLANS.	CLIENT: ALBANY PROJECT: PROJECT:	
3.	A MINIMUM OF 4 FEET OF COVER SHALL BE PROVIDED OVER ENTIRE LENGTH OF ALL SANITARY LATERALS.	DRAWN JES	
4.	THE TOWN OF BETHLEHEM WATER AND SEWER MANAGER SHALL BE NOTIFIED FORTY-EIGHT HOURS IN ADVANCE OF CONNECTION OR TAP. [518-439-4955].	DESIGNED NSO	
5.	SANITARY SEWER LATERAL(S) AND APPURTENANCES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE TOWN OF BETHLEHEM.	CHECKED AJF SCALE 1"=250'	
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.	DATE JANUARY 2022 PROJECT 18641.00	
7.	MAXIMUM SPACING BETWEEN CLEANOUTS ON SANITARY LATERALS MAY NOT EXCEED SEVENTY-FIVE (75) FEET.	FOR REVIEW	
8.	MAXIMUM SPACING BETWEEN SANITARY MANHOLES MAY NOT EXCEED FOUR-HUNDRED (400) FEET.	NOT FOR	
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.	CONSTRUCTION	
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/ EXFILITRATION 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.	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	
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 PER THE TOWN OF SCHODACK WATER AND SEWER DEPARTMENT STANDARDS.	OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. DRAWING TITLE	
12.	MIN DEFLECTION OF 3" PVC SDR21 ASTM D2241 FORCE MAIN SEWER LINE IS 0.7' FOR 20' LENGTHS.	UTILITY NOTES & INDEX	
		DRAWING NUMBER	
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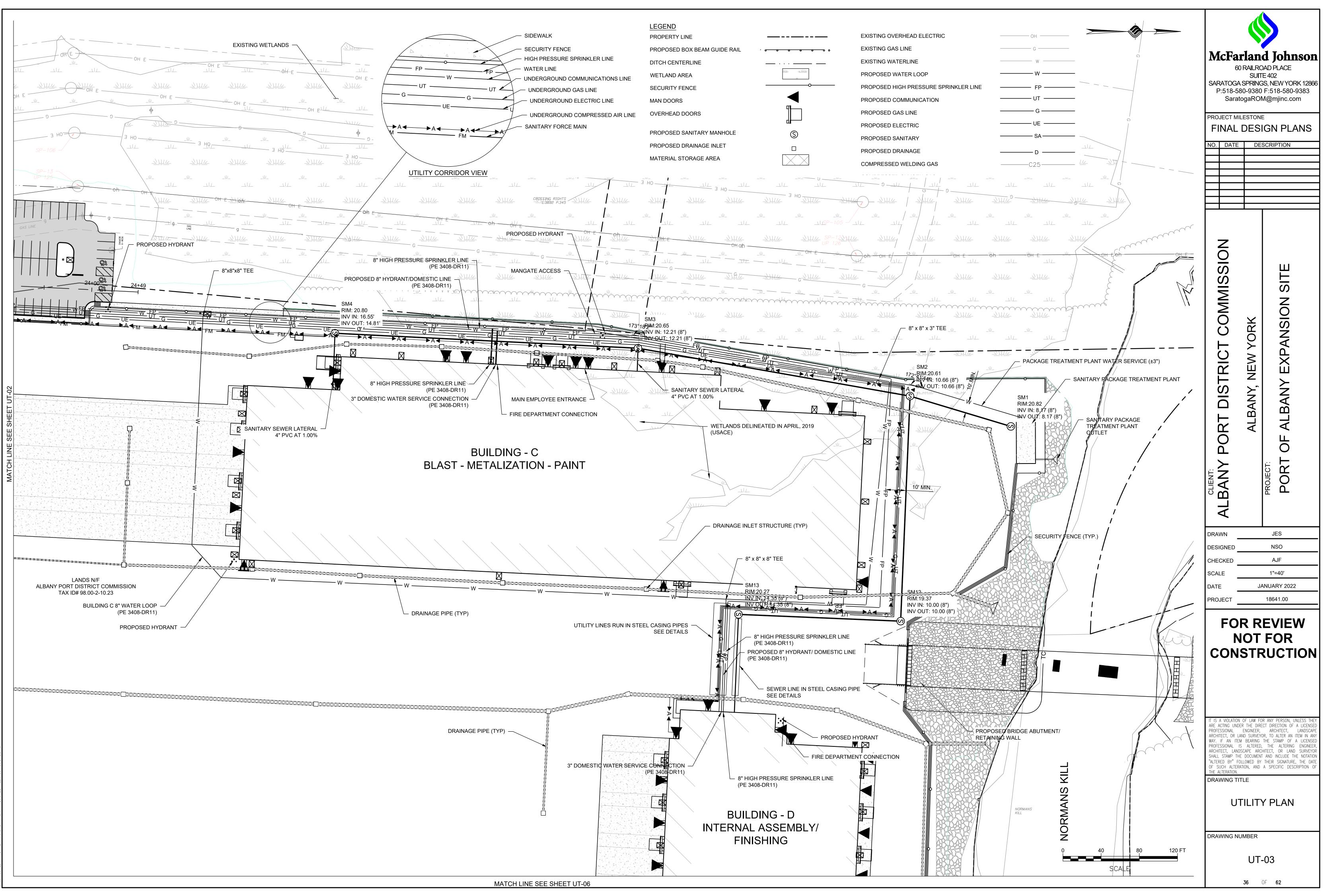
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# PROPERTY LINE PROPOSED BOX BEAM GUIDE RAIL WETLAND AREA

<u>LEGEND</u>

DITCH CENTERLINE

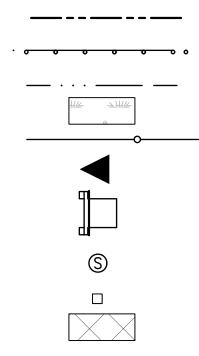
SECURITY FENCE

MAN DOORS

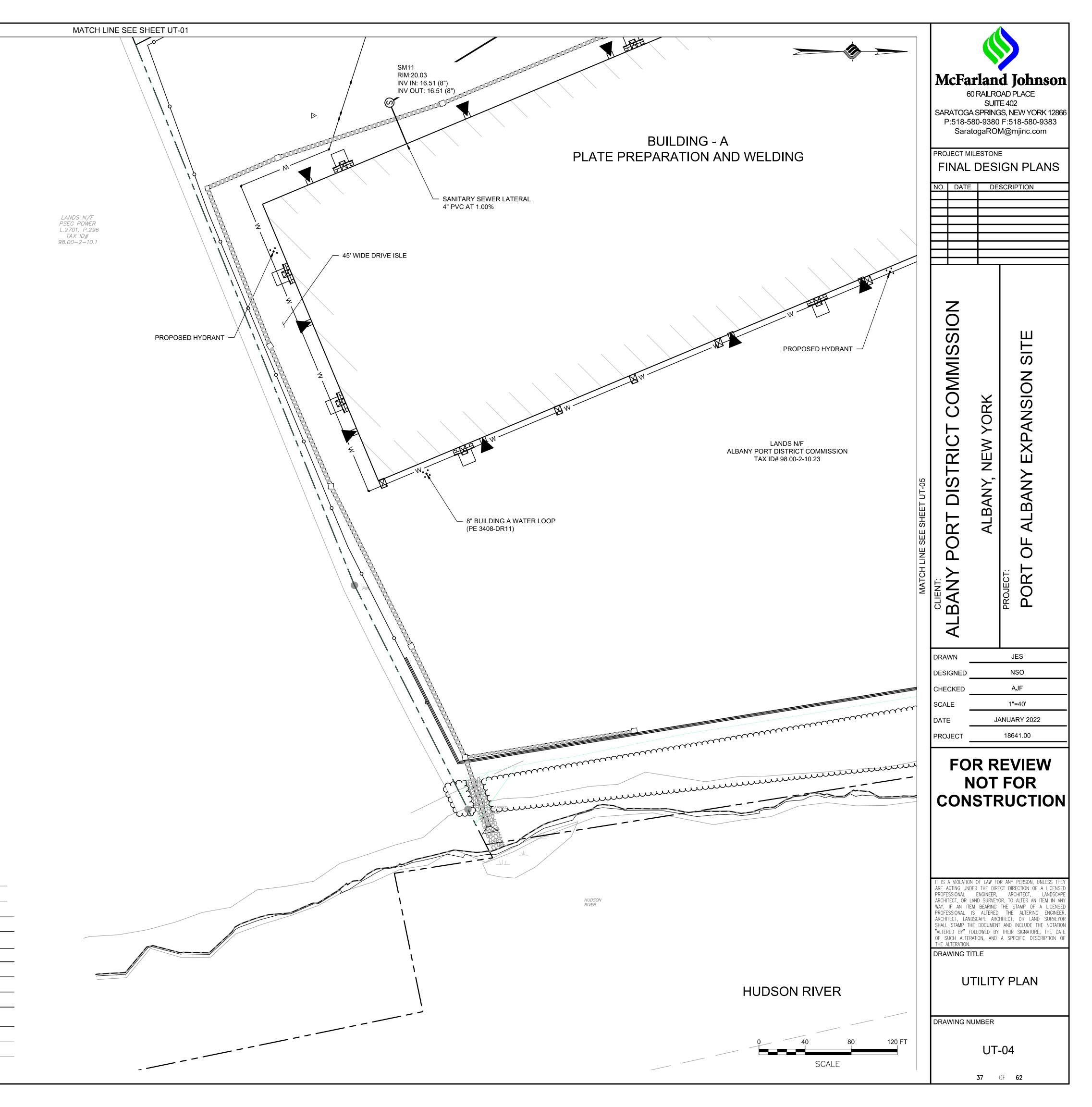
OVERHEAD DOORS

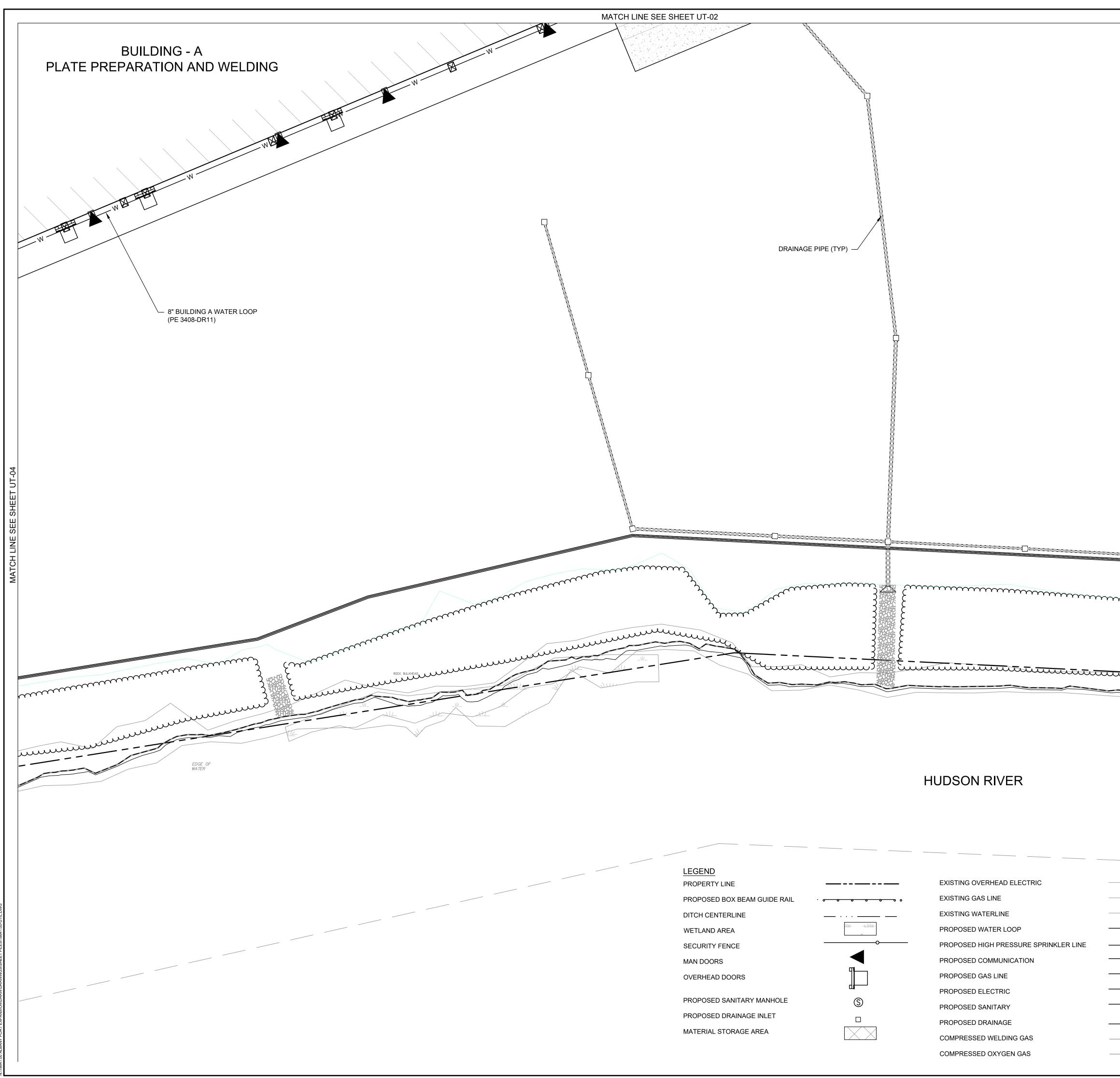
PROPOSED SANITARY MANHOLE

PROPOSED DRAINAGE INLET MATERIAL STORAGE AREA

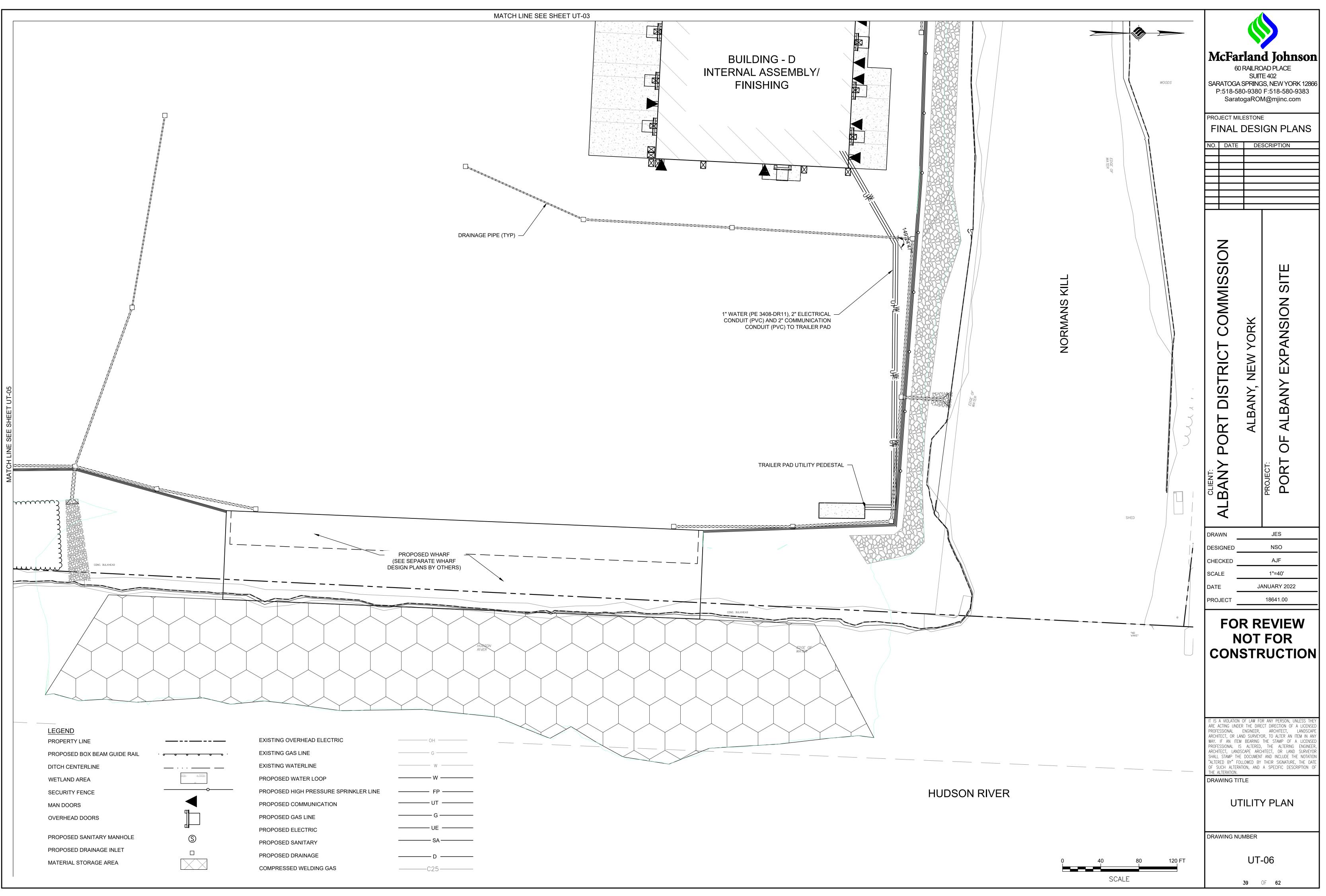


EXISTING OVERHEAD ELECTRIC	OH
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PROPOSED WATER LOOP	——— W ———
PROPOSED HIGH PRESSURE SPRINKLER LINE	FP
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PROPOSED GAS LINE	G
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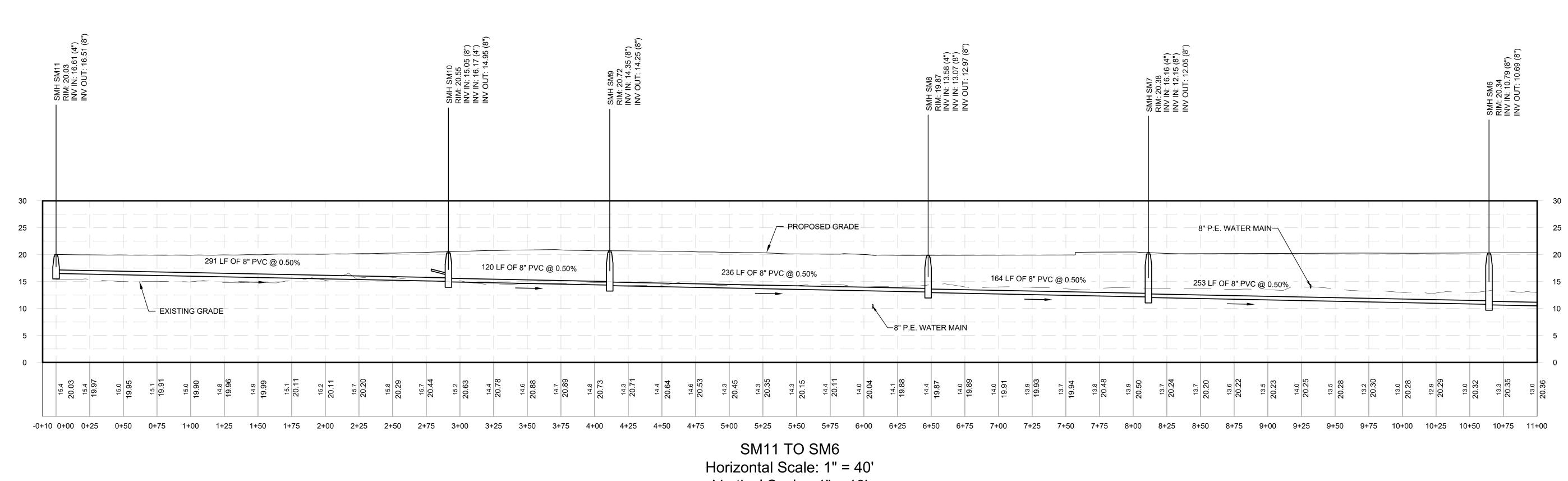




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				SARATOGA P:518-5	SUIT SPRING 80-9380	DAD PLACE TE 402 GS, NEW YORK 12866 9 F:518-580-9383 M@mjinc.com
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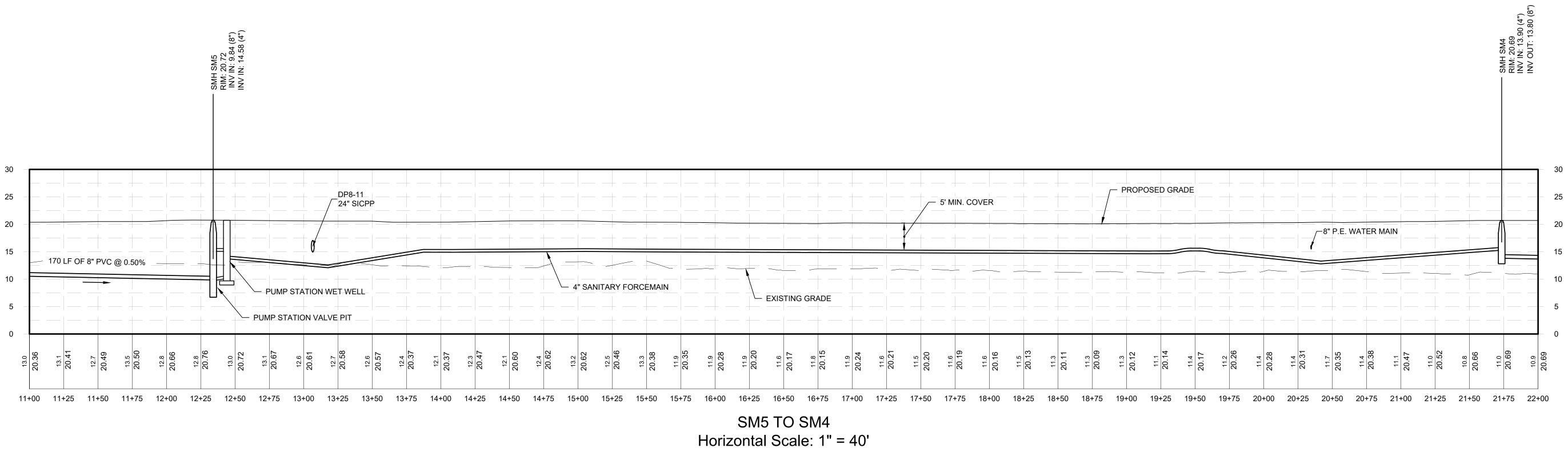


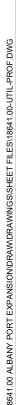
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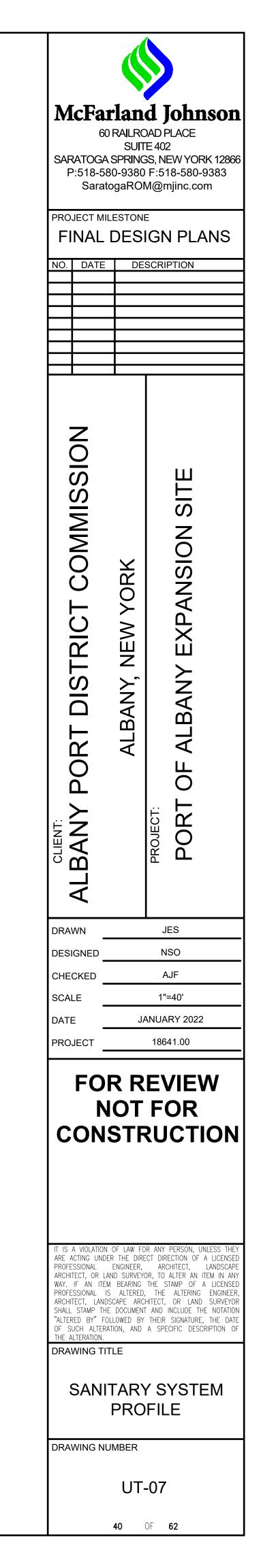




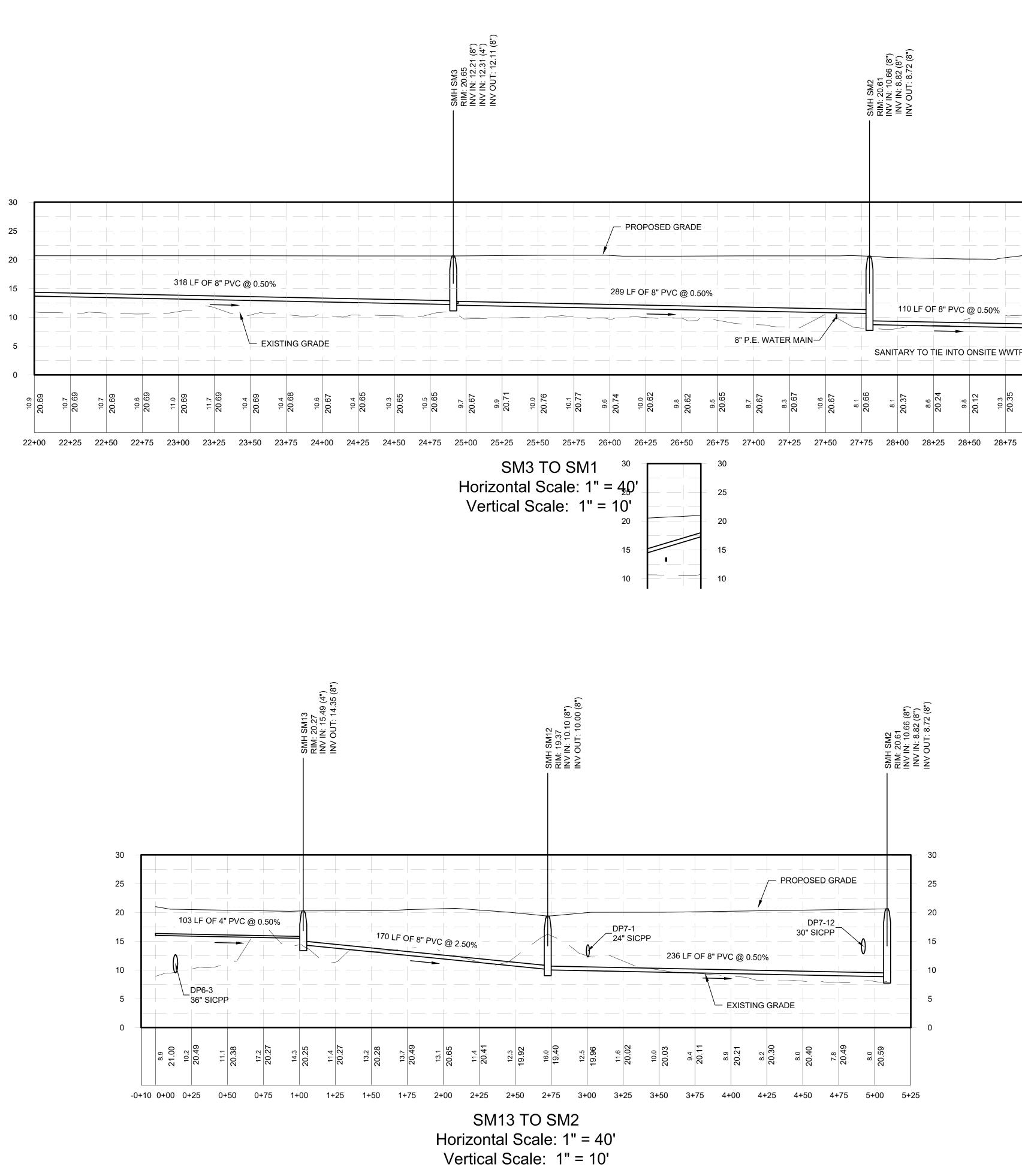
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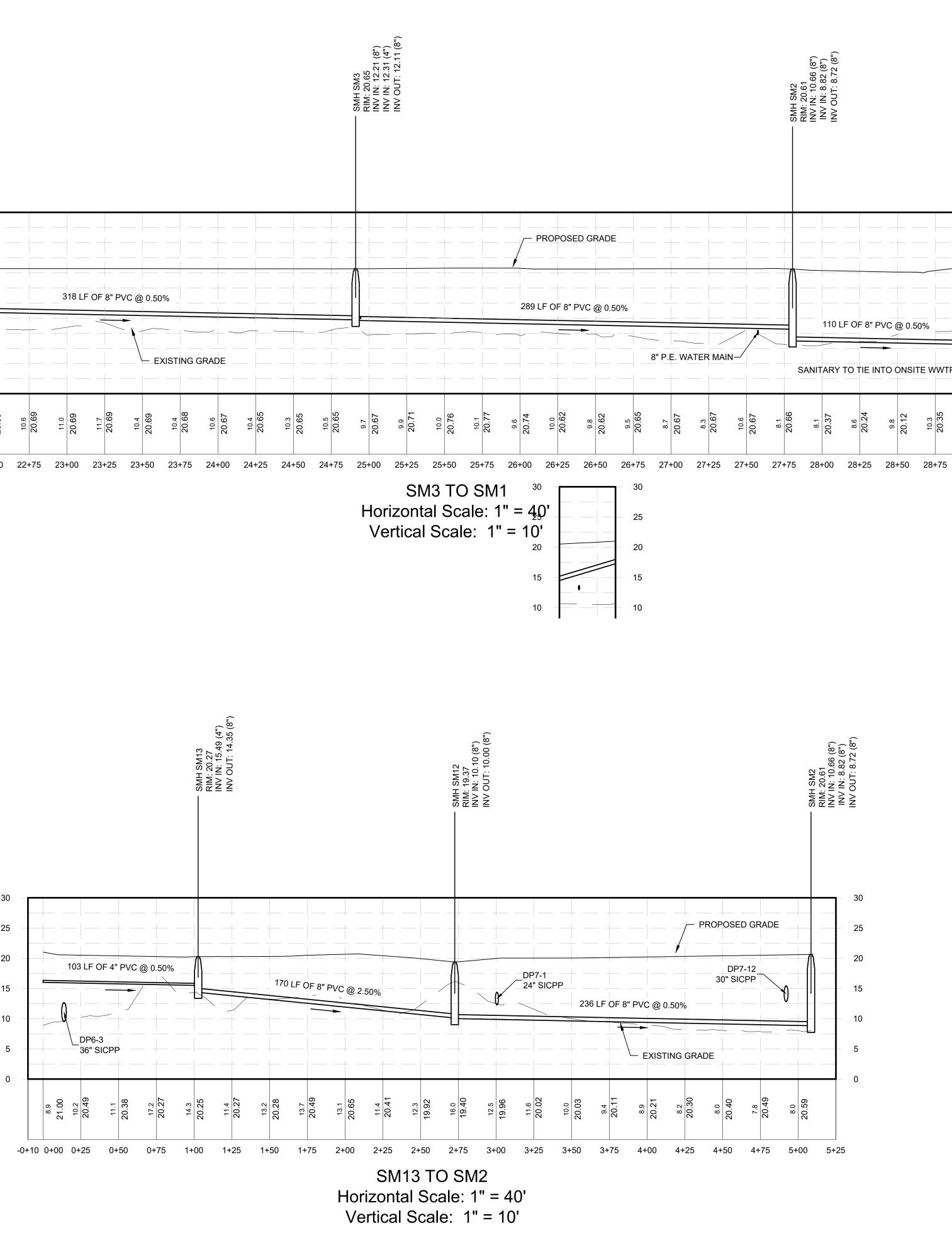
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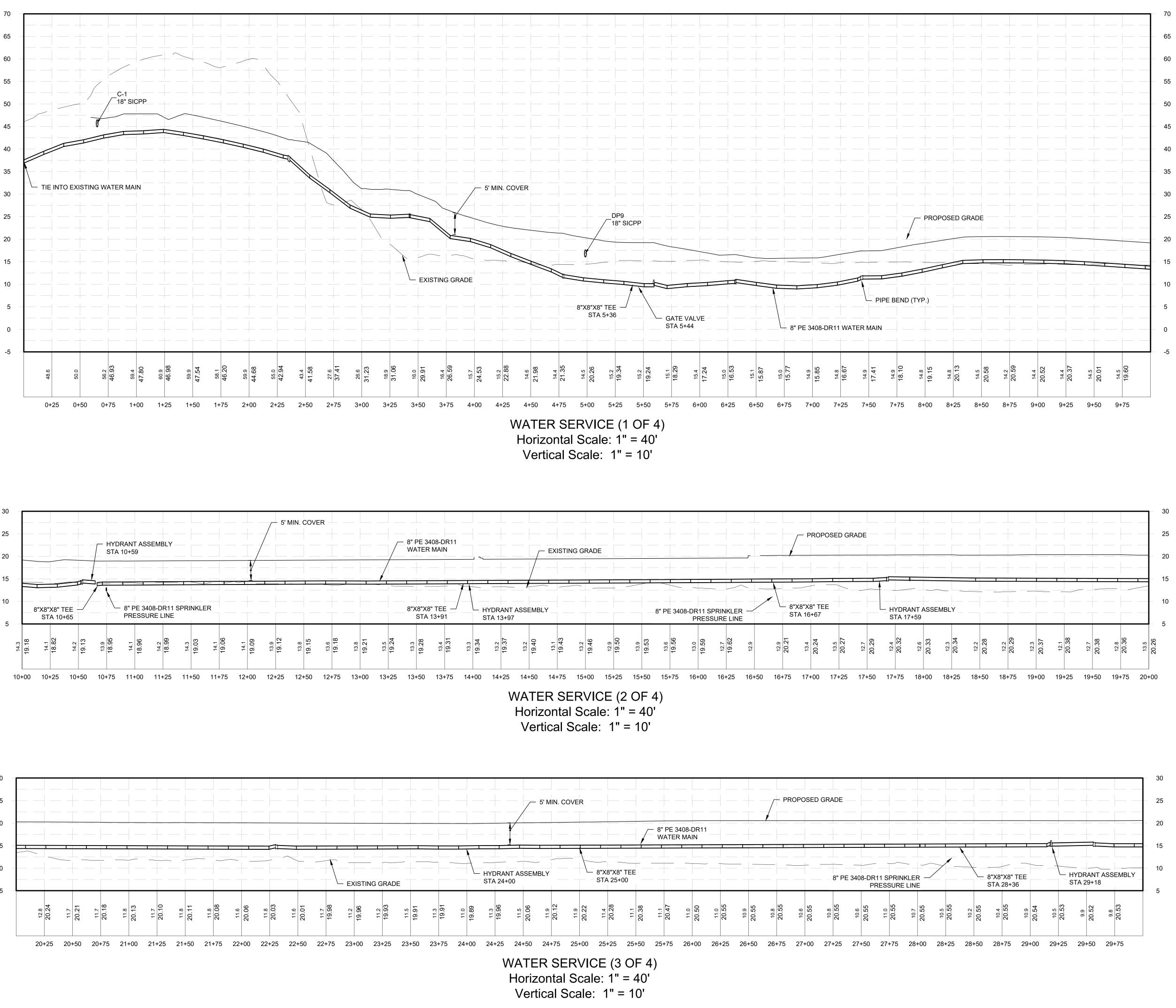


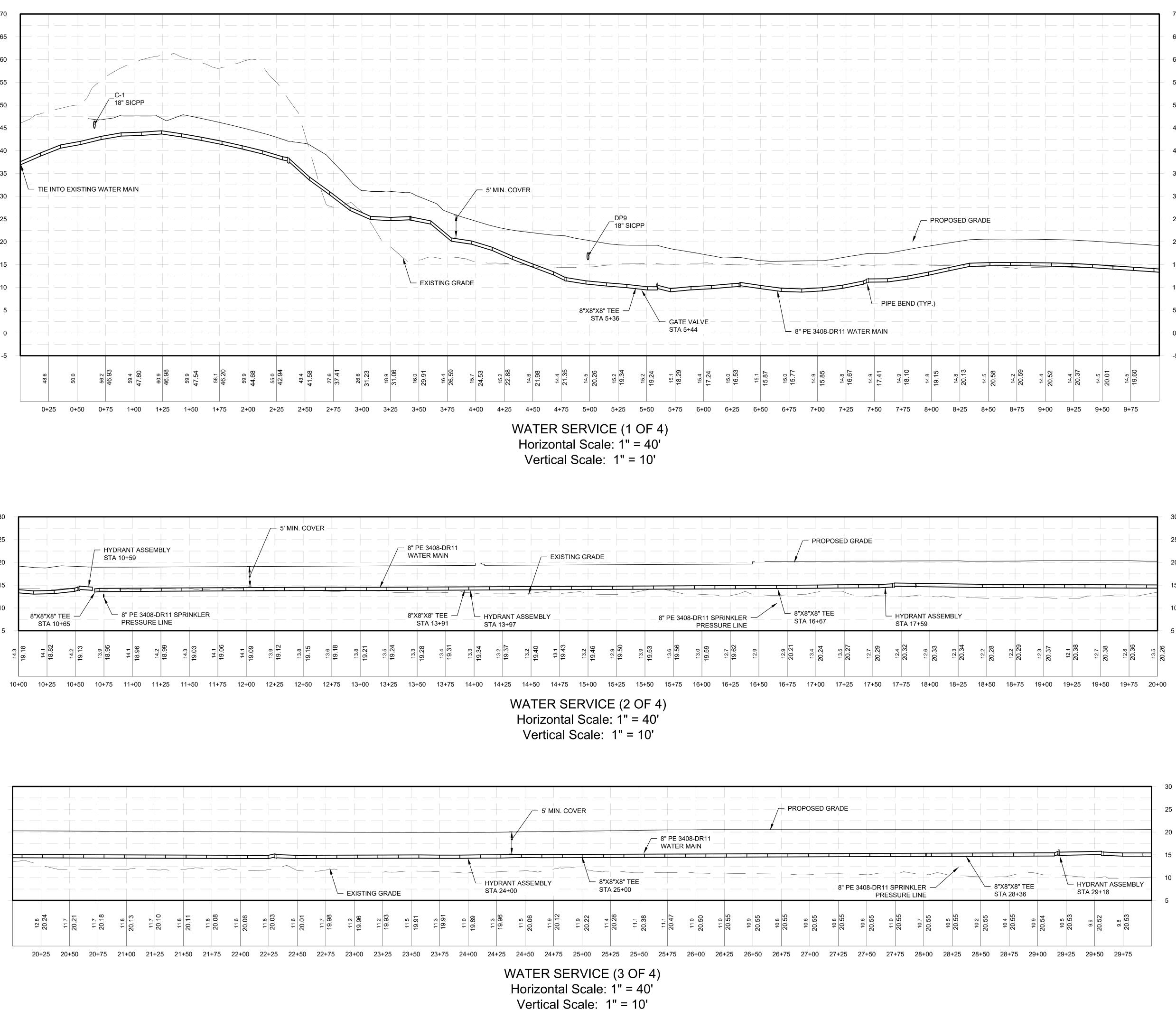
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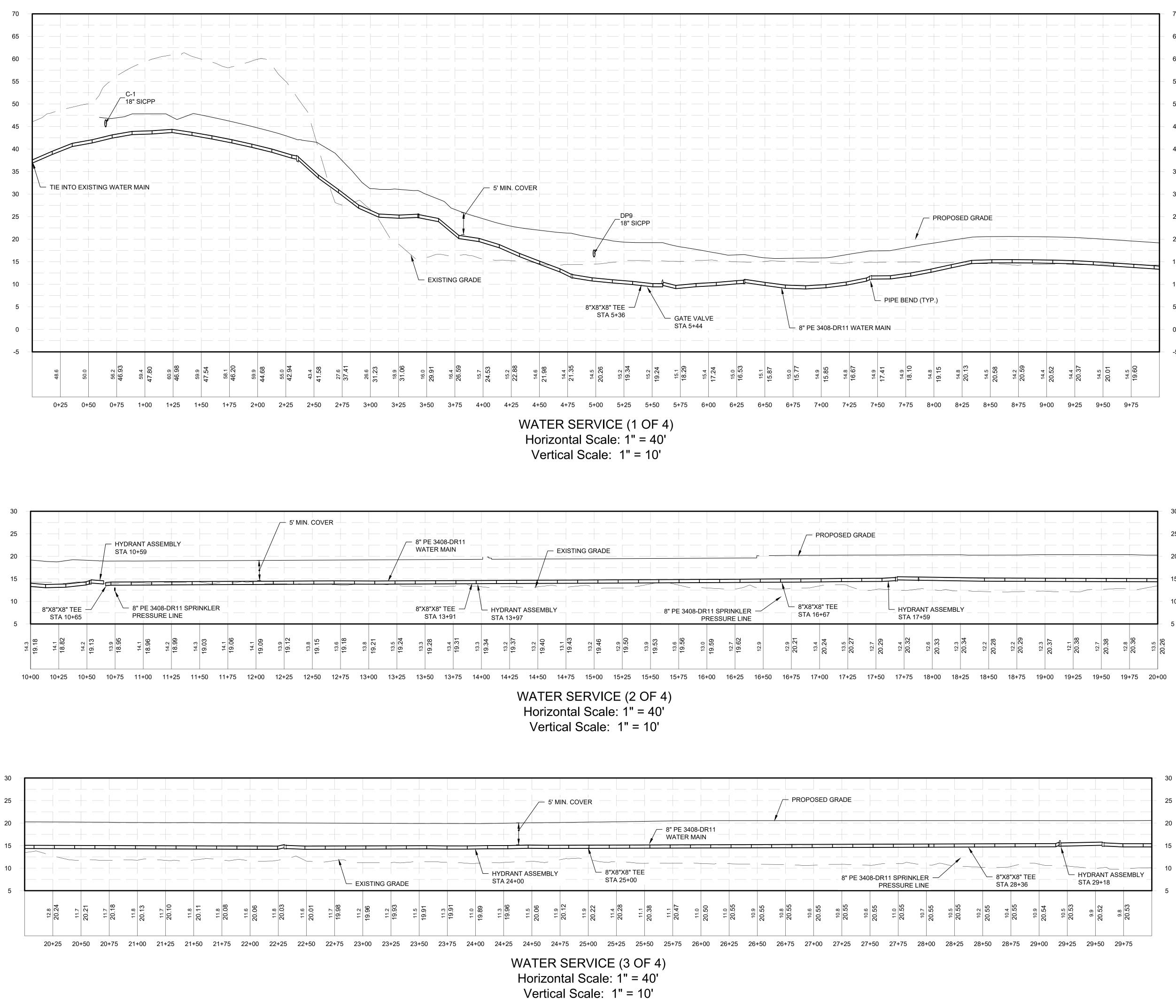
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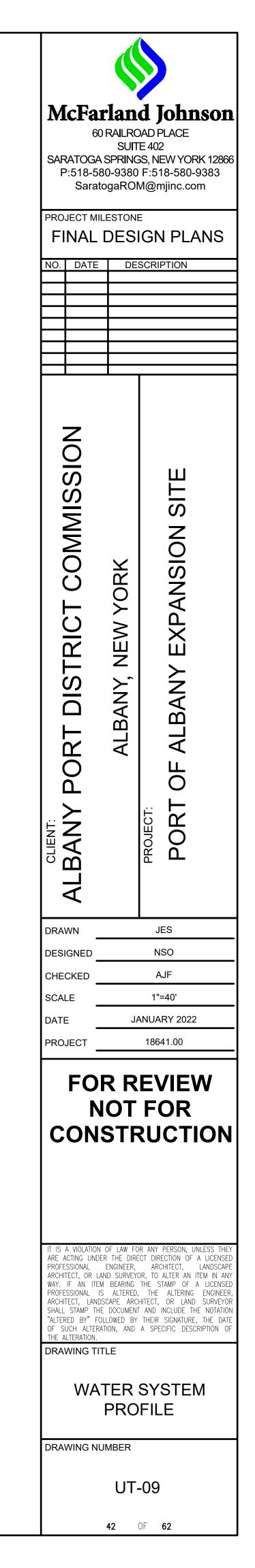
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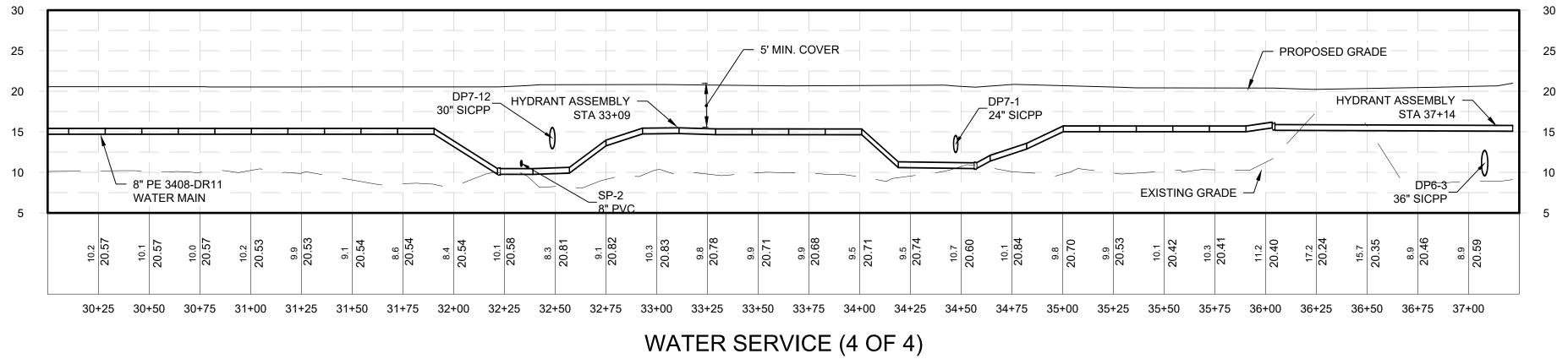
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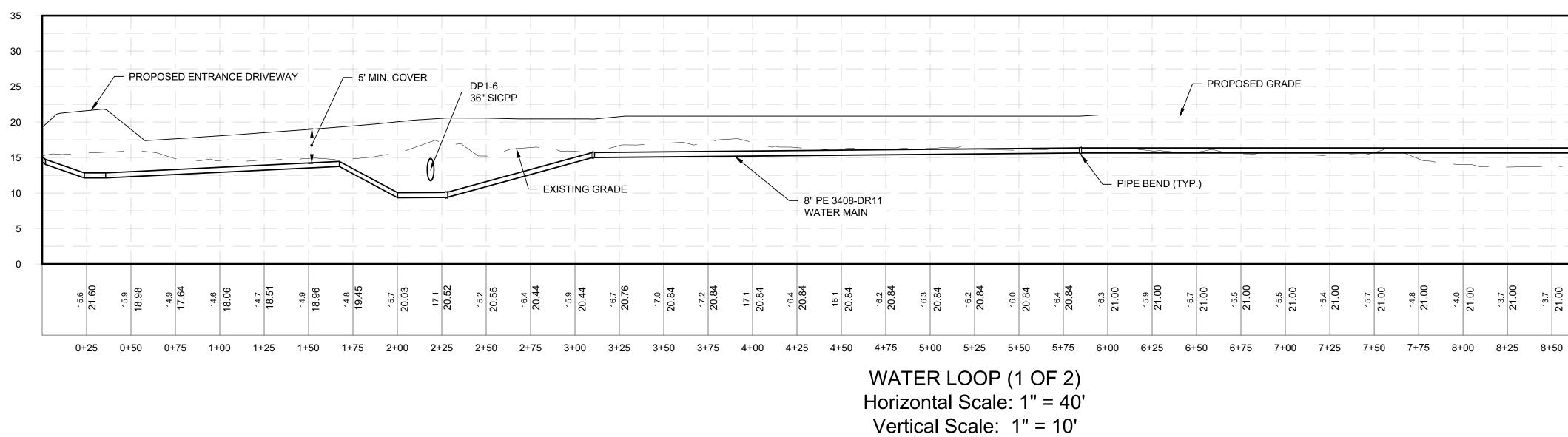


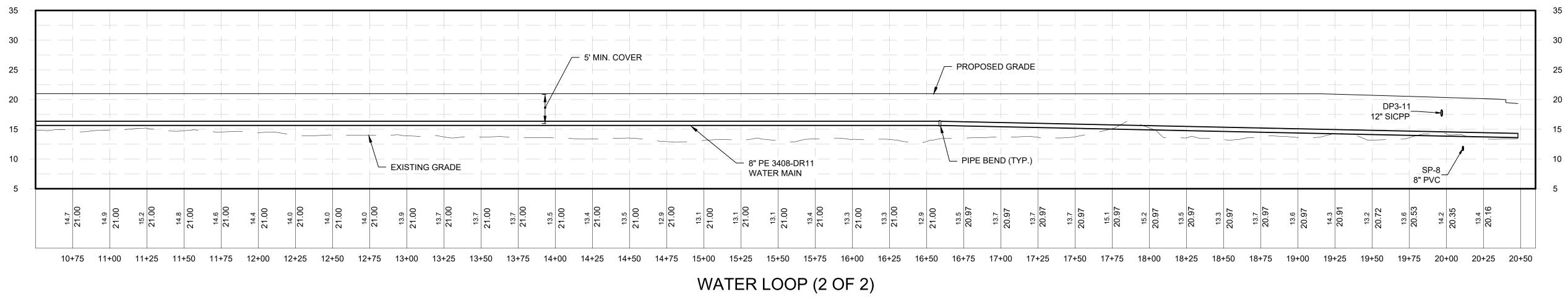












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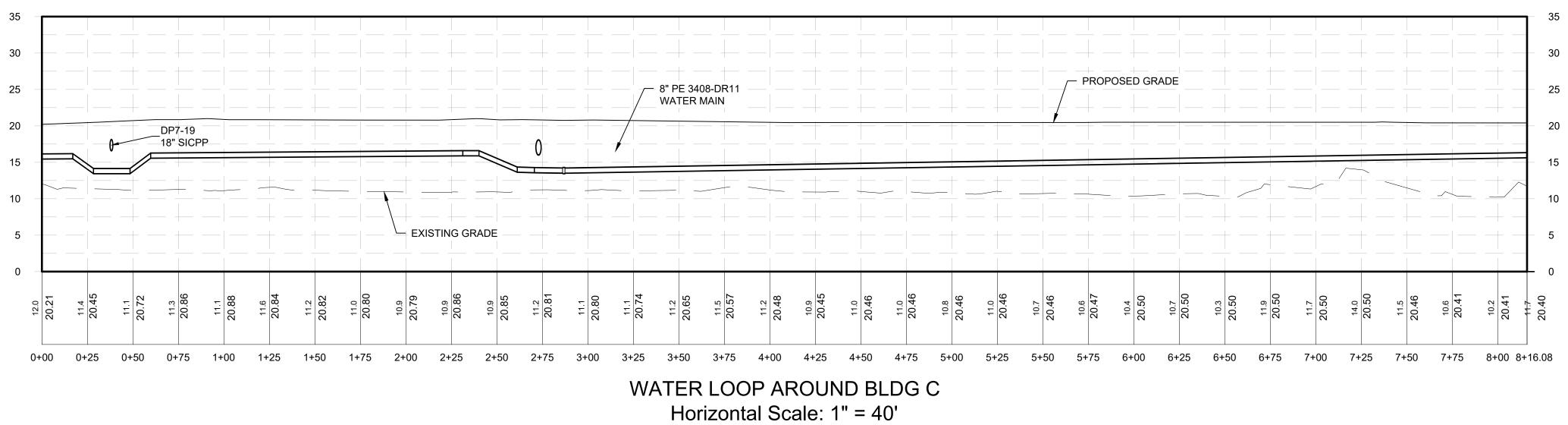
60	) RAILR( SUIT	<b>d Johnson</b> DAD PLACE TE 402						
P:518-56 Sarat	SARATOGA SPRINGS, NEW YORK 12866 P:518-580-9380 F:518-580-9383 SaratogaROM@mjinc.com							
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9+75 10+00 10+25

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8+75 9+00

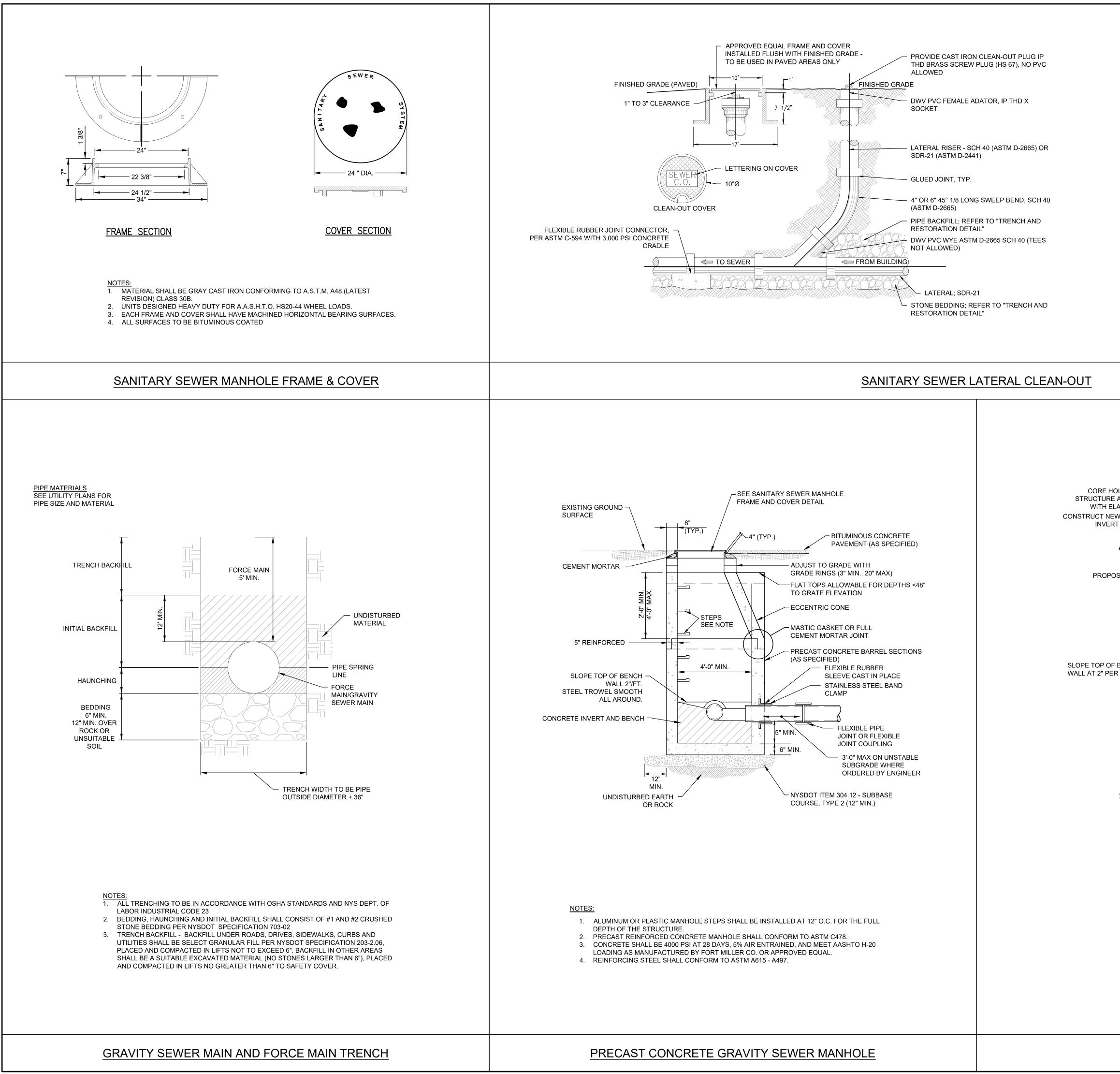


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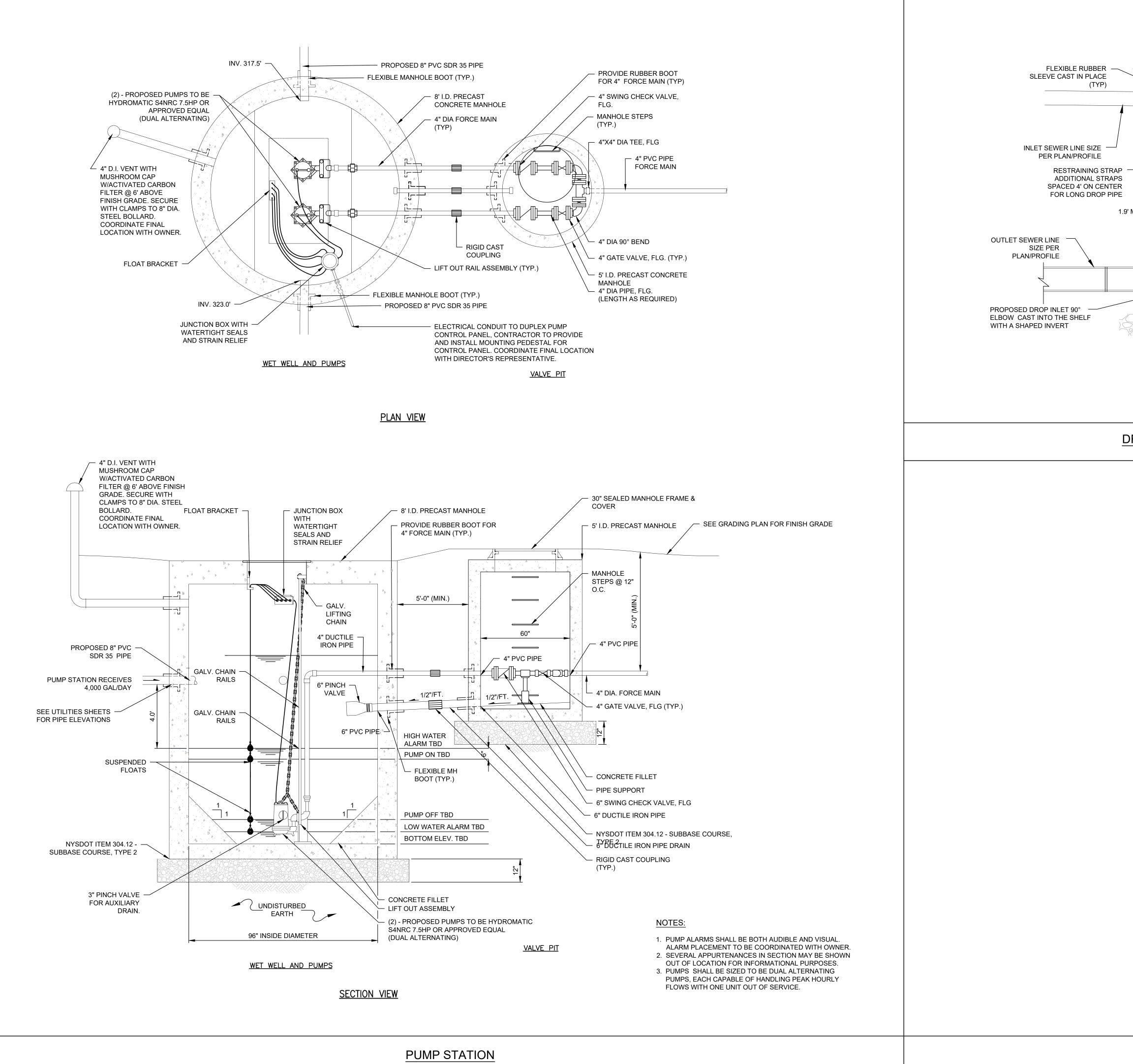
Vertical Scale: 1" = 10'

SARATOO P:518-	McFarland Johnson 60 RAILROAD PLACE SUITE 402 SARATOGA SPRINGS, NEW YORK 12866 P:518-580-9380 F:518-580-9383 SaratogaROM@mjinc.com							
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**44** OF **62** 



NOTES: 1. IT IS RECOMMENDED THAT ALL SOLVENT WELD JOINTS BE MADE AS FOLLOWS: 2. CLEAN DRY HUBS AND SPOTS 3. PRIMER APPLIED TO PARTS BEING CONNECTED 3. PRIMER APPLIED TO PARTS BEING CONNECTED 4. PVC SOLVENT WELD CEMENT APPLIED DIRECTLY OVER PRIMER 4. PVC TYPE I IS COMPATIBLE FOR SOLVENT WELDING	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
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. <u>AVAILABLE LATERAL/CLEANOUT CONFIGURATIONS:</u> • 4" x 4" x 4" • 6" x 6" x 6" • 6" x 6" X 4"	COMMISSION RK ASION SITE
PROPOSED PIPE OLE INTO EXISTING E AND INSTALL PIPE LASTOMERIC BOOT W CONCRETE TA AND BENCH A FLOW FLOW FLOW FLOW B CONSTRUCT NEW CONCRETE INVERT AND BENCH	CLIENT: CLIENT: ALBANY PORT DISTRICT COMMISS ALBANY, NEW YORK PROJECT: PROJECT: PROJECT: PORT OF ALBANY EXPANSION SITE
PLAN 3'-0" MAX ON UNSTABLE SUBGRADE WHERE ORDERED BY ENGINEER ORDERED BY ENGINEER SECTION B-B	DRAWN JES DESIGNED NSO CHECKED AJF SCALE N.T.S. DATE JANUARY 2022 PROJECT 18641.00 FOR REVIEW NOT FOR
** CHANNEL DEPTH         SAWED HALF PIPE         GUIDE CONSTRUCTION         SECTION A-A         NOTE:         1. CARE SHALL BE TAKEN TO ENSURE THAT THE INVERTSARE A SMOOTH CONTINUATION.         1. INVERT AND SHELF SHALL BE CAST-IN-PLACE CONCRETE 3000 PSI MIN. AND AIR ENTRAINED.	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 alternice 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         Details
SEWER BOTTOM WITH CHANNEL	DRAWING NUMBER UT-12 45 OF 62



VY PORT EXPANSION\DRAWIDRAWINGS\SHEET FILES\18641.00-UTIL-DETS.DWC

6" MIN. 1' MIN.	REMOVABLE EXPANDING PIPE PLUG		and Johnson
	PRECAST CONCRETE SEWER MANHOLE STRUCTURE	SARATOGA SPI P:518-580-9	SUITE 402 RINGS, NEW YORK 12866 9380 F:518-580-9383 ROM@mjinc.com
	<ul> <li>PROPOSED PVC DROP INLET</li> <li>PIPING (SIZE TO MATCH INLET</li> <li>SIZE) w/ STAINLESS STEEL</li> <li>BRACKETS/STRAPS BY THE</li> <li>CONTRACTOR</li> </ul>	PROJECT MILES	TONE ESIGN PLANS DESCRIPTION
MIN. MIN. SLOPE SLOPE COPE 1-6" MIN. NOP MANHOLE	<ul> <li>PROPOSED INVERT CHANNEL AND SHELF PER DETAIL INVERT ELEVS PER PLAN/PROFILE</li> </ul>		ALBANY, NEW YORK ALBANY EXPANSION SITE
		ALBANY PORT D	PROJECT: PORT OF ALBANY
		DRAWN DESIGNED CHECKED SCALE DATE PROJECT	JES NSO AJF N.T.S. JANUARY 2022 18641.00
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REAC	CTOR COMPONENTS, SIZES, AND CONFIGURATIONS MAY DIF	FER. REFER	AERATION	1	IŲ	
TO A	RRANGEMENT DRAWINGS FOR DETAILS.		CLARIFIER	1	10	
	LIMINARY BASIN SIZING IS PROVIDED FOR INFORMATIONAL Y. FINAL DESIGN VALUES SHALL BE ESTABLISHED BY THE E		SOLIDS HOLDING	1	10	
	ORD. THE PROJECT SPECIFIC QUOTE FOR MORE INFORMATION PE OF SUPPLY AND CORRESPONDING TERMS AND CON DITION		LIFT STATION ALL DIMENSIONS ARE INSID	1 DE OF TANK UN	4 (DIA.) NLESS NOTED OTHER	RWISE.
	DIAPHRAGM VALVE					
$\boxtimes$	GLOBE/NEEDLE VALVE					
$\boxtimes$	BALL VALVE					
	CHARACTERIZED BALL VALVE					
¢	BALL CHECK VALVE	SIZED	OTE: NYS DESIGN S WASTEWATER TREATER	ATMENT S	SYSTEMS REC	OMM
Ø	PLUG VALVE	ACTIVAT	A PRIMARY TREATM ED SLUDGE TANK IS OT INCLUDED IN THIS	S USED.	THIS RECOMM	IEND
I¥I	BUTTERFLY VALVE				ENGINEER OF	
111	GATE VALVE					
	3-WAY VALVE		SIMPLEX	SOLIDS F	HOLDING	
N	CHECK VALVE			MIXING I	BLOWER	<b>`</b>
B	BLOWER					$\backslash$
P	MECHANICAL PUMP					(
	AIR LIFT PUMP					
M	MIXER					
M	FLOW METER					
С	CHEMICAL DOSING PUMP					
F	FILTER				ŀ	HAUL S
UV	ULTRAVIOLET DISINFECTION UNIT					
	BAR SCREEN					
	MECHANICAL BAR SCREEN					
CL	TABLET FEEDER					
WASTEL	OAD SUMMARY:					
280 mg/L 300 mg/L 7.0-7.1 p⊦	T WASTELOAD AS PROVIDED BY ENGINEER OF RECORD (23.4 LB/D) BOD <sub>5</sub> (25 LB/D) TSS H (ASSUMED) C) WATER TEMPERATURE (ASSUMED <sup>1</sup> )					
30 mg/L B 30 mg/L T	<u>IT TARGETS</u> 30D₅ 30-D AVERAGE ISS 30-D AVERAGE 0 mL FCB 30-D GEO. MEAN					
ORGANIC	CLOADING					

PROCESS DIAGRAM NOTES

THE EFFLUENT WASTELOAD SUMMARY.

1. 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

2. THE PROCESS SCHEMATIC SHOWS THE GENERAL FLOW LAYOUT. SPECIFIC

14.2 LB BOD/D/KCF

AOR: 53 LB O<sub>2</sub>/D SOTR: 102 LB O<sub>2</sub>/D

DELTA MODEL BASIS A-12.0

AERATION SYSTEM DESIGN

PROCESS AIR DEMAND: 68 SCFM

PROCESS AIR INLET FLOW: 123 ICFM

SOLIDS HOLDING MIXING AIR DEMAND:

SELECTED MOTOR: 4 HP

SELECTED MOTOR: 1.5 HP

3" RAS/WAS AIRLIFT PUMP AIR DEMAND (2 EA): 20 SCFM 2" SCUM AIRLIFT PUMP AIR DEMAND (2 EA): 16 SCFM

BLOWER AIRFLOW: 1 DUTY/1 STANDBY, 123 ICFM @ 4.3 PSIG SELECTED BLOWER: GARDNER DENVER MODEL 3M @ 2,600 RPM

30 SCFM / 1,000 CF x 0.69 KCF = 21 SCFM :: 25 ICFM @ 4.3 PSIG SELECTED BLOWER: GARDNER DENVER MODEL 2M @ 2,500 RPM

TOTAL MAIN AIR BLOWER DEMAND: 104 SCFM SITE ELEVATION: 50 FT AMSL (ASSUMED)

MAXIMUM AIR TEMPERATURE: 115 F (ASSUMED)

WIDTH (FT)

10

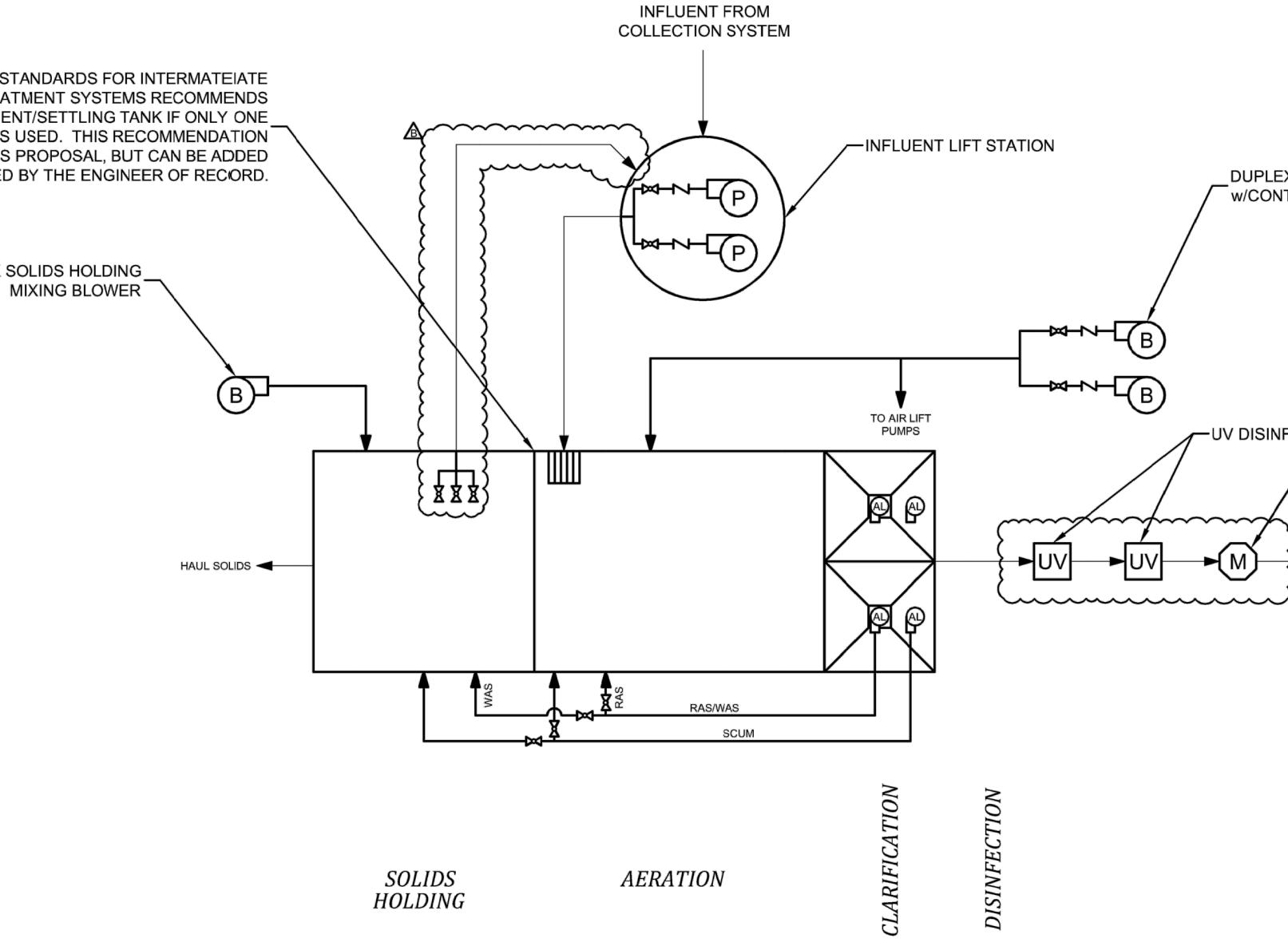
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1

TANK

AERATION

TANK SIZES	6		
LENGTH (FT)	HEIGHT (FT)	SWD (FT)	VOLUME (GAL)
19	10.17	8.67	12,300
5	10.17	8.67	2,100 (APPROX.)
8	10.17	8.67	5,100
-	TBD	-	400 (APPROX. OPERATIONAL)
/ISE			



## SANITARY PACKAGE TREATMENT PLANT - PROCESS DIAGRAM

FLOW SUMMARY							
Flow Parameter	GPD	GPH	GPM				
AVERAGE DAILY FLOW (ADF)	9,999	416	6.9				
PEAK DAILY FLOW (PDF)	-	-	-				
PEAK HOURLY FLOW (PHF)	-	-	-				
0.5 x ADF	5,000	208	3.4				
1.5 x ADF	15,000	625	10				

60 SARATOGA P:518-50 Sarat	DRAILRO SUIT SPRINO 80-9380 togaROI LESTON	DAD PLACE E 402 SS, NEW YORK 12866 F:518-580-9383 M@mjinc.com E IGN PLANS				
ALBANY PORT DISTRICT COMMISSION	ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE				
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DUPLEX BLOWER SYSTEM

w/CONTROL PANEL

UV DISINFECTION ARRAY

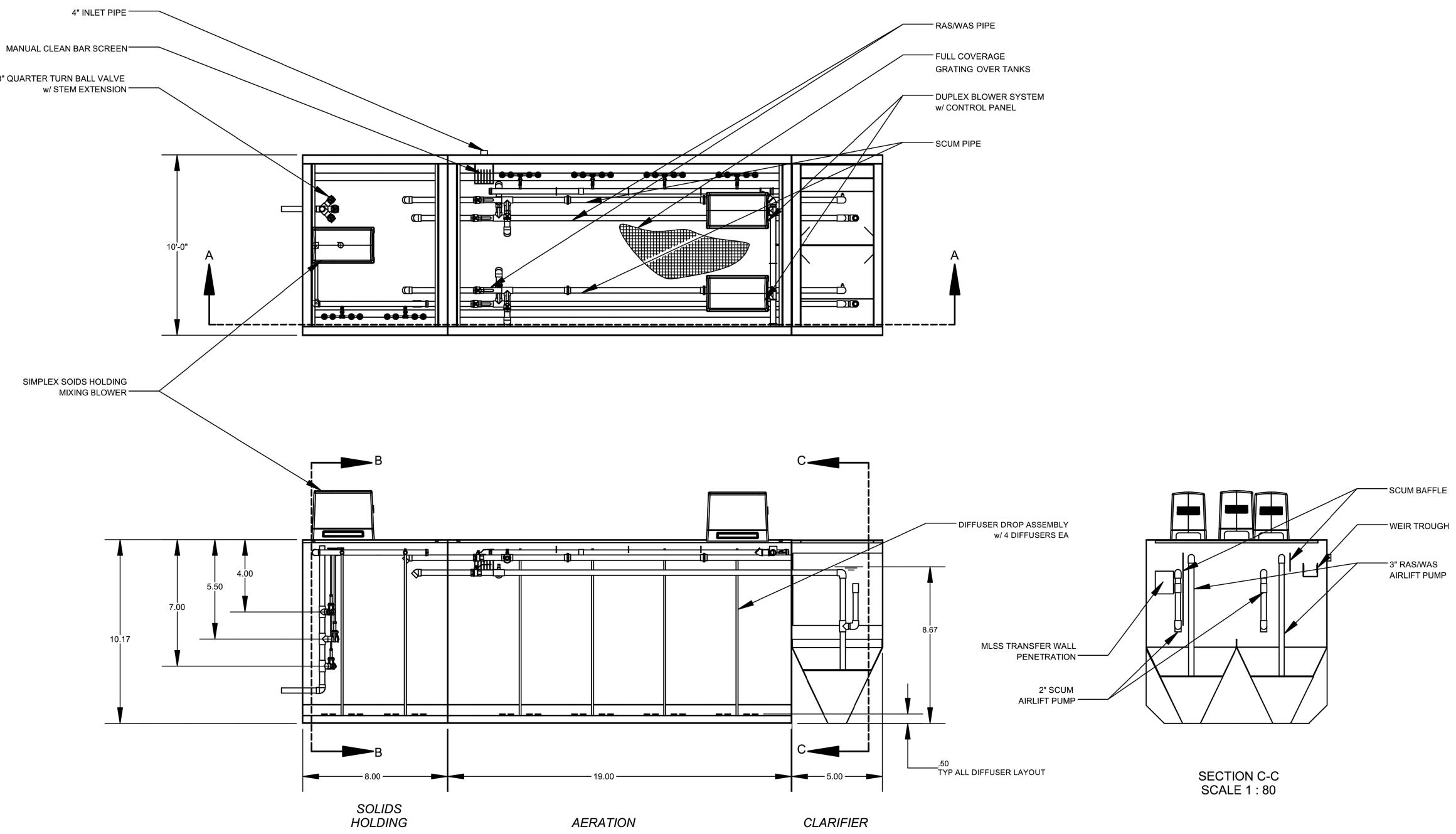
EFFLUENT FLOW MEASUREMENT VAULT EFFLUENT TO SURFACE DISCHARGE OUTFALL

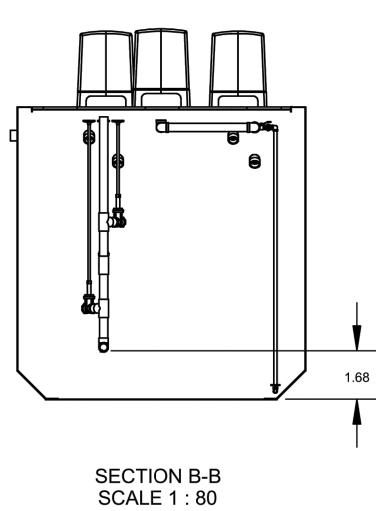
### GENERAL ARRANGEMENT NOTES

1.

THESE DRA	WINGS DEPICT PRELIMINARY LAYOUT(S) OF A
WASTEWAT	FER TREATMENT SYSTEM CAPABLE OF TREATING THE
DESIGN AV	/ERAGE INFLUENT FLOW AND LOAD TO THE EFFLUENT
WATER QU	ALITY DENOTED IN THE WASTELOAD SUMMARY.
THE EQUIPI	MENT ARRANGEMENT/LAYOUT IS SCHEMATIC IN NATURE

- 2. AND SOME OBJECTS MAY NOT BE DRAWN TO SCALE. REFER TO THE ENGINEER-OF-RECORD PROJECT DOCUMENTS FOR FINAL SITE AND/OR EQUIPMENT ARRANGEMENT.
- ALL REACTORS SHALL BE CONSTRUCTED OF A36 CARBON STEEL, 3. MINIMUM 1/4" THICKNESS, REINFORCED PRECAST CONCRETE PER ASTM C913, OR CAST-IN-PLACE CONCRETE PER ENGINEER-OF-RECORD REQUIREMENTS.
- BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS 3" QUARTER TURN BALL VALVE 4. 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.
- REACTORS AND INTERNAL DEVICES SHALL BE INSTALLED PLUMB 6. AND LEVEL.

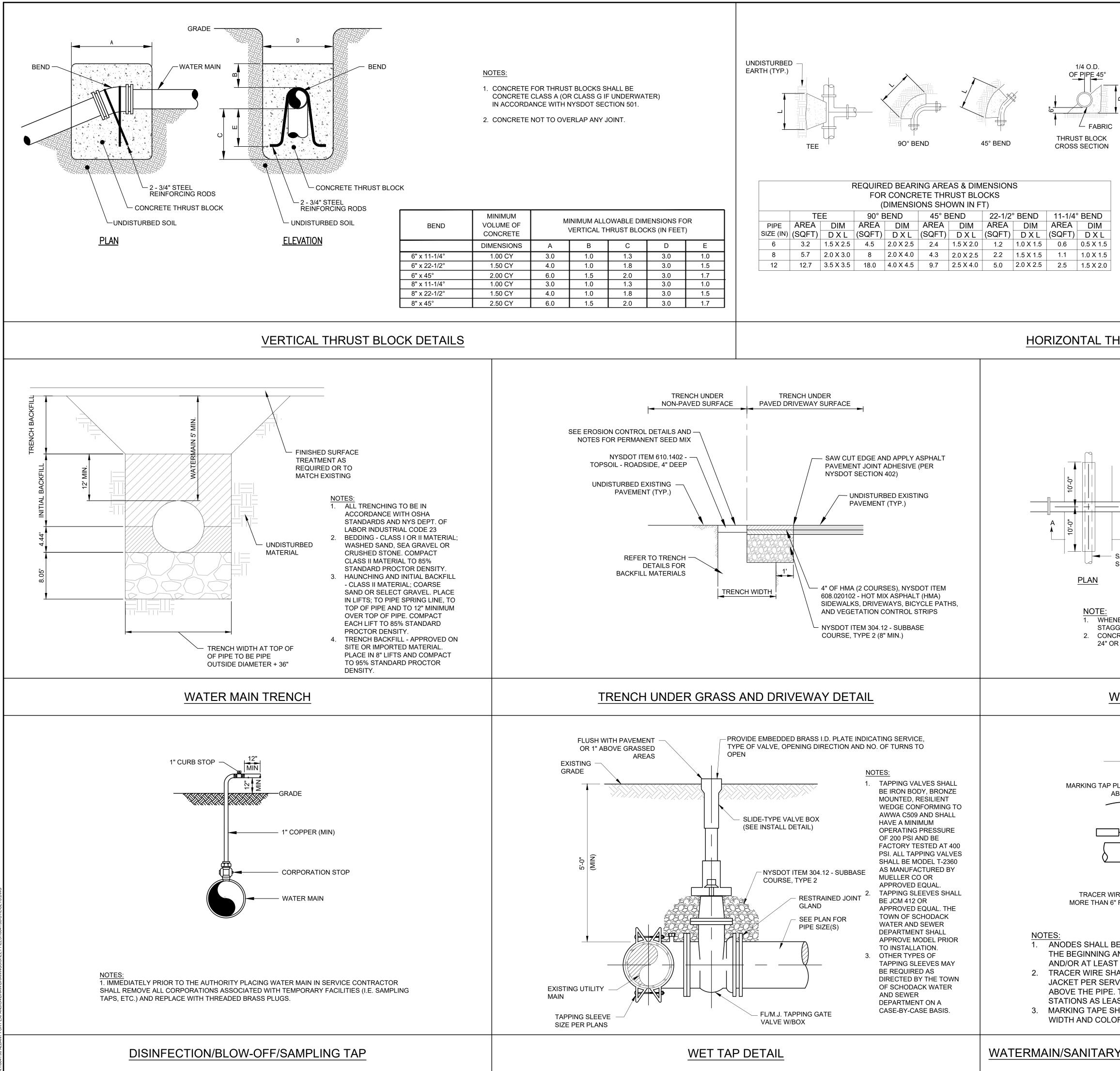




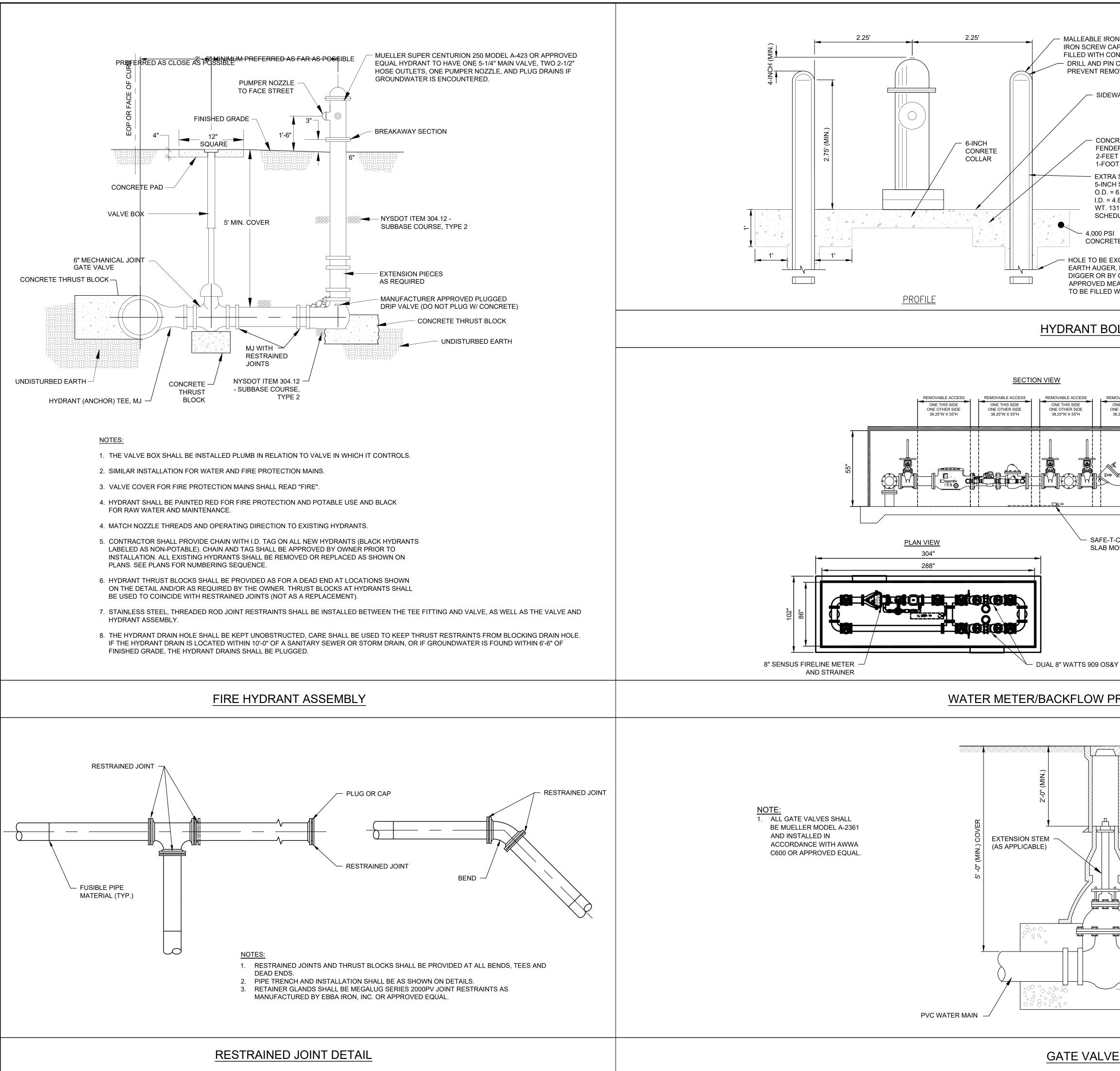
SECTION A-A SCALE 1 : 80

## SANITARY PACKAGE TREATMENT PLANT - GENERAL ARRANGEMENT

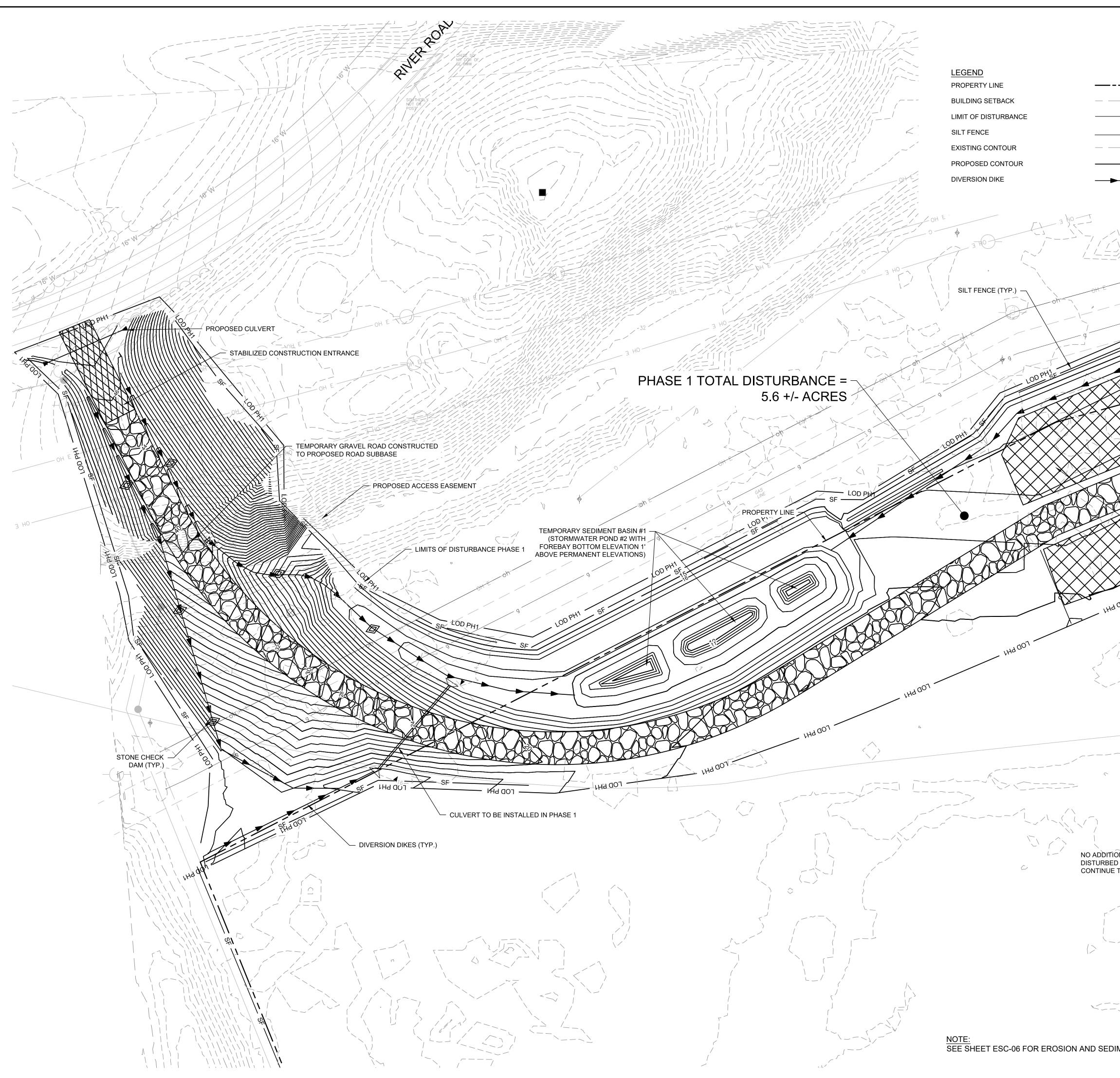
6 SARATOG P:518-5 Sara PROJECT M	0 RAILRO SUIT A SPRINO 580-9380 atogaRO	A Johnson DAD PLACE TE 402 SS, NEW YORK 12866 D F:518-580-9383 M@mjinc.com E IGN PLANS SCRIPTION
ALBANY PORT DISTRICT COMMISSION	ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE
DRAWN DESIGNED CHECKED		JES NSO AJF
SCALE	J,	1"=40' ANUARY 2022
PROJECT		18641.00
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ARE ACTING UN PROFESSIONAL ARCHITECT, OR WAY. IF AN IT PROFESSIONAL ARCHITECT, LAN SHALL STAMP T "ALTERED BY" F	DER THE DIR ENGINEER, LAND SURVEY EM BEARING IS ALTERED IDSCAPE ARC HE DOCUMEN FOLLOWED BY RATION, AND	DR ANY PERSON, UNLESS THEY ECT DIRECTION OF A LICENSED ARCHITECT, LANDSCAPE 'OR, TO ALTER AN ITEM IN ANY THE STAMP OF A LICENSED O, THE ALTERING ENGINEER, CHITECT, OR LAND SURVEYOR T AND INCLUDE THE NOTATION ' THEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF
SAN		Y SYSTEM AILS
DRAWING N	IUMBER	
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<ul> <li>NOTES:</li> <li>1. CONCRETE FOR THRUST BLOCKS IN ACCORDANCE WITH NYSDOT SE</li> <li>2. CONCRETE NOT TO OVERLAP ANY</li> <li>3. VALUES FOR TEE ALSO APPLY TO</li> <li>4. REQUIRED BEARING AREAS ARE D PLUS 50% (75 PSI) SURGE ALLOWA</li> <li>5. REQUIRED BEARING AREAS ARE B POUNDS PER SQUARE FOOT FOR S BEARING AREAS MAY BE MODIFIED TABLE FOR THE APPROPRIATE PIP BELOW.</li> </ul>	ECTION 501. JOINT. END PLUGS, CAPS, AND TAPPIN UE TO THRUSTS CAUSED BY 15 NCE RESULTING IN 225 PSI TO ASED ON ALLOWABLE SOIL BE/ SAND. DUE TO OTHER SOIL COI D BY THE ENGINEER BY MULTIP	NG SLEEVES 50 PSI WORKING PRESSURE TAL INTERNAL PRESSURE ARING CAPACITY OF 2000 NDITIONS ENCOUNTERED, 'LYING THE AREA GIVEN IN THE	SARATOO P:518- Sar PROJECT I	60 RAILRO SUIT GA SPRINO 580-9380 atogaROI MILESTON	<b>d Johnson</b> DAD PLACE TE 402 SS, NEW YORK 12866 D F:518-580-9383 M@mjinc.com
<u>SOIL</u> SOFT CLAY SAND SAND & GRAVEL SAND AND GRAVEL CEMENTED WITH CLAY HARD SHALE	ALLOWABLE SOIL PRESSURE (LBS/SQFT) 1,000 2,000 3,000 4,000 10,000	CORRECTION FACTOR 2.00 1.00 0.67 0.50 0.20	NO. DAT	E DE	SCRIPTION
	DNS, OR BY REMOVAL OF SUCH SUFFICIENT STABILITY TO RESI USE SUFFICIENT STABILITY TO RESI SUFFICIENT STABILITY TO RESI SECTION 4" N SECTION A-A HALL BE DINT OF CROSSING.	I UNSTABLE MATERIAL AND	ALBANY PORT DISTRICT COMMISSION	ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE
VATER MAIN/SEWER CROS	SSING DETAIL		DESIGNED CHECKED SCALE DATE PROJECT		NSO AJF N.T.S. ANUARY 2022 18641.00
PLACED 18" 7 BOVE PIPE	XTEND 2' OF EXTRA TRACER W ALVE BOX/CLEANOUT BOX TRACER WIRE SPLICE KIT	IRE INSIDE	IT IS A VIOLAT ARE ACTING U PROFESSIONAL ARCHITECT, OR WAY. IF AN PROFESSIONAL ARCHITECT, LA SHALL STAMP	NOT NSTF NSTF	PR ANY PERSON, UNLESS THEY ECT DIRECTION OF A LICENSED ARCHITECT, LANDSCAPE OR, TO ALTER AN ITEM IN ANY THE STAMP OF A LICENSED , THE ALTERING ENGINEER, HITECT, OR LAND SURVEYOR T AND INCLUDE THE NOTATION
E ONE POUND (1 LB.) BARE ZINC OR M ND THE END OF THE WATERLINE/SEW EVERY FIVE HUNDRED FEET (500') WI ALL BE 12AWG ANNEALED SOFT COPP VICE. TRACER WIRE SHALL BE PLACED TRACER WIRE SHALL BE ACCESSIBLE ST EVERY 500'. HALL BE INSTALLED 18" ABOVE PVC PI	VER AND AT EVERY VALVE ITHIN PER (SOLID) WITH COLOR ( O NO FURTHER THAN 6" TO AT EVERY VALVE BOX/MA	BOX/MANHOLE CODED 30MIL HDPE D THE SIDE OR ANHOLE OR TEST	OF SUCH ALT THE ALTERATIO DRAWING	TITLE	THEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF
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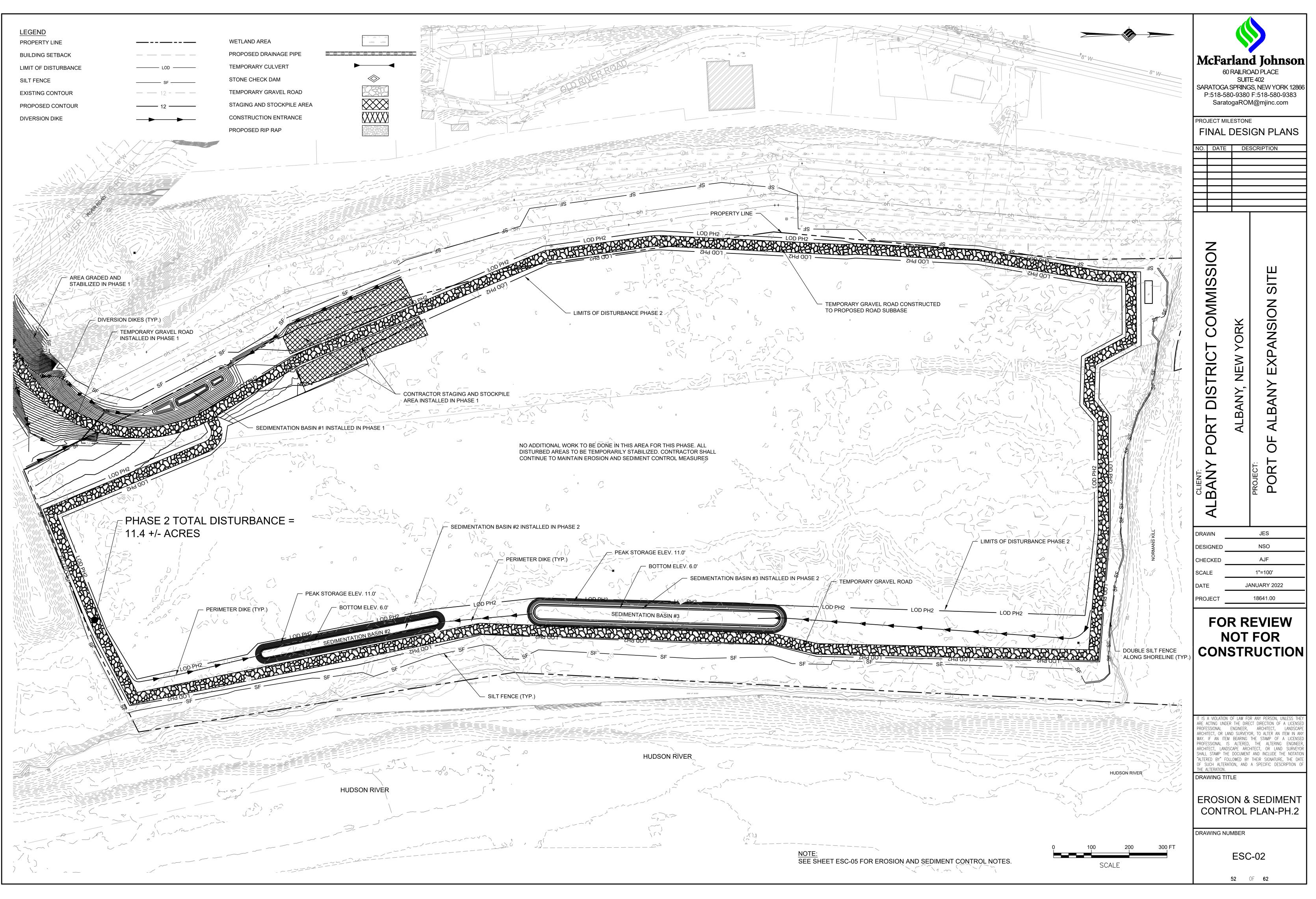


2.2 N OR CAST AP COLUMN NCRETE CAPS TO OVAL WALK RETE AROUND ERS TO BE T SQUARE AND T DEEP A STRONG I STEEL PIPE 6.6-INCHES .8-INCHES 1 LBS DULE 80	5'	2.25'	2.25'	60 SARATOGA P:518-58 Sarato PROJECT MIL	RAILRO SUITE SPRING 0-9380 ogaROM ESTONE	S, NEW YORK 12866 F:518-580-9383 I@mjinc.com
ACAVATED WITH POST HOLE OTHER ANS. ALL VOIDS WITH CONCRETE	<u>TYPICAL BOLLARD</u>	<u>LAYOUT</u>		COMMISSION	RK	<b>ISION SITE</b>
COVER HCH2000-120 DUNT HEATER	S 42 DOUBLE			CLIENT: BANY PORT DISTRICT (	ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION
CEMEMENT LINED. 3. BELOW GRADE SHALL BE POLY-WF 4. FITTINGS SHALL BE NORTH AMERIC Y REVENTER ENCLOSURE	RAPPED.			DRAWN DESIGNED CHECKED SCALE DATE	JA	JES NSO AJF N.T.S. NUARY 2022
<ul> <li>7 1/2" SHAFT</li> <li>APPROVED GATE BOX TOP SECTION</li> <li>ADJUSTABLE CAST IRON SLIDE TYPE VALVE BOX</li> </ul>	REQUIRED 2-NOTCH – OPENINGS	WATER		N	ΟΤ	EVIEW FOR UCTION
	EM 304.12 - COURSE, TYPE 2			ARE ACTING UNDE PROFESSIONAL ARCHITECT, OR LA WAY. IF AN ITEM PROFESSIONAL IS ARCHITECT, LANDS SHALL STAMP THE "ALTERED BY" FOI OF SUCH ALTERA THE ALTERATION. DRAWING TIT	R THE DIREC ENGINEER, ND SURVEYO BEARING ALTERED, SCAPE ARCH DOCUMENT LOWED BY TION, AND	R ANY PERSON, UNLESS THEY CT DIRECTION OF A LICENSED ARCHITECT, LANDSCAPE R, TO ALTER AN ITEM IN ANY THE STAMP OF A LICENSED THE ALTERING ENGINEER, INTECT, OR LAND SURVEYOR AND INCLUDE THE NOTATION THEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF
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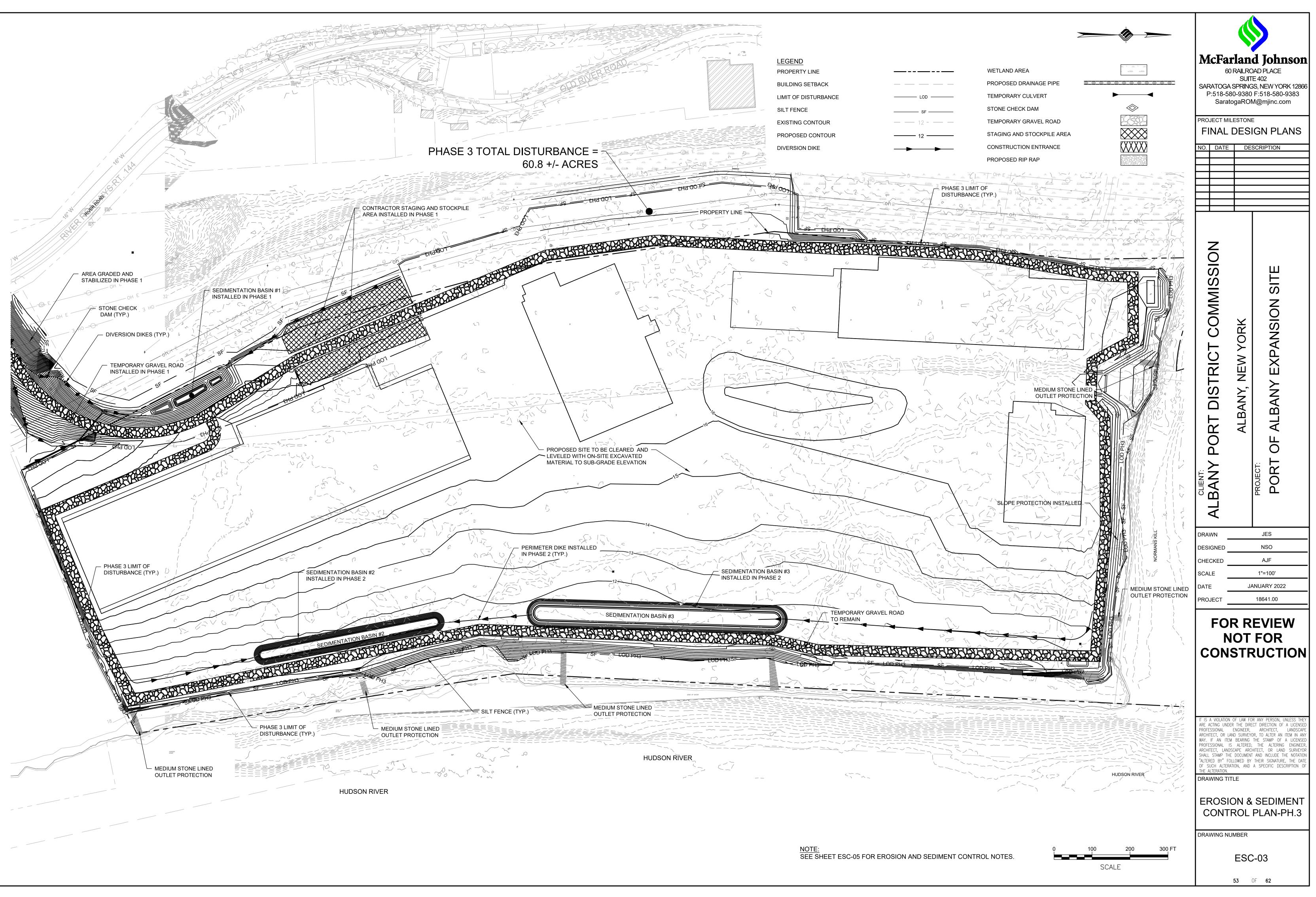


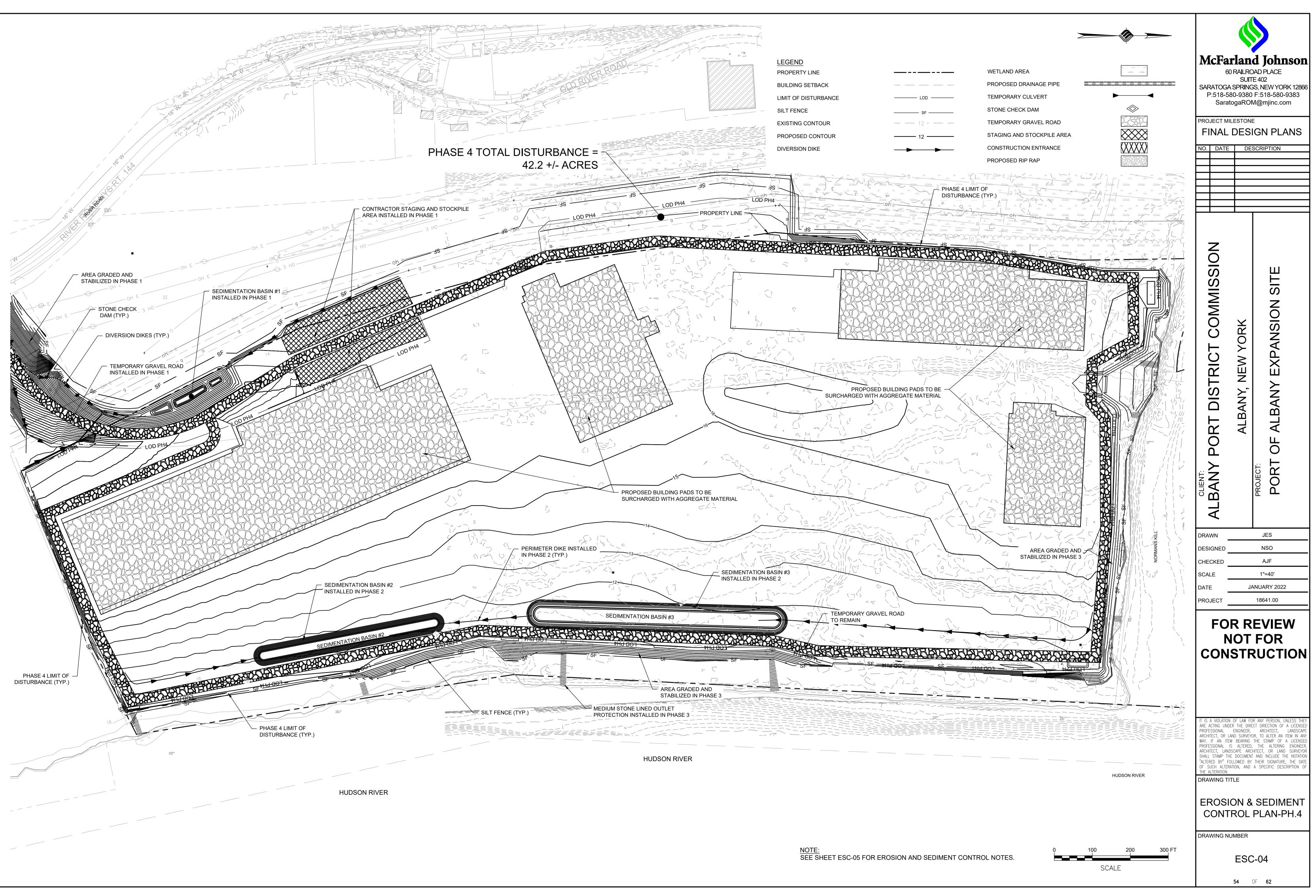
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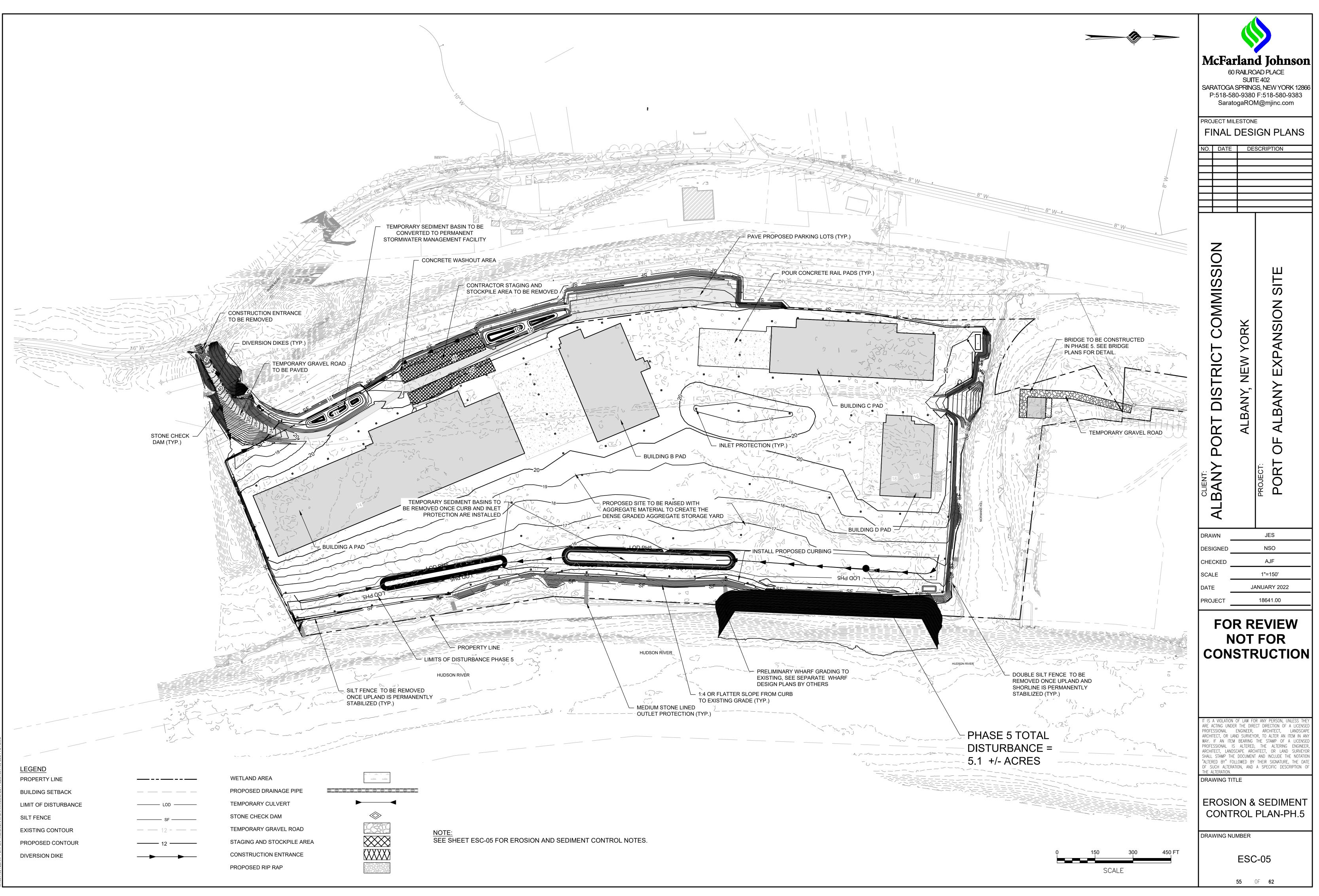
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	WETLAND AREA PROPOSED DRAINAGE PIPE		60 I SARATOGA S P:518-580	<b>Land Johnson</b> RAILROAD PLACE SUITE 402 SPRINGS, NEW YORK 12866 D-9380 F:518-580-9383 gaROM@mjinc.com
- SF 12 - 12	STONE CHECK DAM TEMPORARY GRAVEL ROAD STAGING AND STOCKPILE AREA CONSTRUCTION ENTRANCE PROPOSED RIP RAP		PROJECT MILI FINAL [ NO. DATE	ESTONE DESIGN PLANS DESCRIPTION
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AREAS TO BE TEMPOR	E IN THIS AREA FOR THIS PHASE, ALL RARILY STABILIZED. CONTRACTOR SHALL AND SEDIMENT CONTROL MEASURES		ARE ACTING UNDER PROFESSIONAL E ARCHITECT, OR LAN WAY. IF AN ITEM PROFESSIONAL IS ARCHITECT, LANDSO SHALL STAMP THE	DF LAW FOR ANY PERSON, UNLESS THEY THE DIRECT DIRECTION OF A LICENSED ENGINEER, ARCHITECT, LANDSCAPE D SURVEYOR, TO ALTER AN ITEM IN ANY BEARING THE STAMP OF A LICENSED ALTERED, THE ALTERING ENGINEER, CAPE ARCHITECT, OR LAND SURVEYOR DOCUMENT AND INCLUDE THE NOTATION LOWED BY THEIR SIGNATURE, THE DATE ION, AND A SPECIFIC DESCRIPTION OF
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LEANY PORT EXPANSION/DRAW/DRAWINGS/SHEET FILES/18641.00-ESC-PI







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 HYDROSEEDED 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 PERVIOUS 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:

### PHASE I:

### PHASE II:

### PHASE III:

- BALANCE CUT AND FILLS IN THE SITE
- PHASE IV:

### <u>PHASE V:</u>

- INSTALL SITE UTILITIES • SPREAD AGGREGATE MATERIAL TO STORAGE AREAS
- PAVE PARKING LOT AREAS
- FACILITIES BY EXCAVATING THE PERMANENT POOL AND FOREBAYS DOWN TO FINAL GRADE
- REMOVE CONSTRUCTION STAGING AREA CONVERT TEMPORARY SEDIMENT BASIN TO PERMANENT STORMWATER MANAGEMENT AND CONVERTING THE OUTLET STRUCTURE.
- PERMANENT PRACTICES

## 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.

### SOIL RESTORATION NOTES

PLANTS.

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

### 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. STABILIZE THE CONSTRUCTION ACCESS ROAD DISTURBANCE AREA PRIOR TO PROGRESSING TO PHASE II

### INSTALL PERIMETER CONTROLS

• INSTALL CONSTRUCTION ACCESS ROAD AROUND THE PERIMETER OF THE SITE CONSTRUCT SEDIMENTATION BASINS STABILIZE ALL DISTURBED AREAS BEFORE PROGRESSING INTO PHASE III

### • SITE TO BE CLEARED AND GRUBBED

 COMPACT/IMPROVE EXISTING GROUND CONDITIONS ACCORDING TO GEOTECHNICAL REPORT IMPORT MATERIAL TO RAISE THE SITE TO PROPOSED SUBGRADE ELEVATIONS STABILIZE ALL DISTURBED AREAS BEFORE PROGRESSING INTO PHASE IV

 HAUL IN PROPOSED AGGREGATE MATERIAL TO SURCHARGE THE BUILDING FOOTPRINTS AND CONCRETE AREAS MAINTAIN EXISTING PHASE III EROSIONAL AND SEDIMENT CONTROL MEASURES

• INSTALL STORM SEWER SYSTEM WITH INLET PROTECTION FOR DRAINAGE STRUCTURES AND STONE LINING OUTLET PROTECTION

- POUR ALL PROPOSED CONCRETE RAIL PADS AND SIDEWALKS INSTALL PROPOSED CONCRETE CURBING
- REMOVE TEMPORARY SEDIMENT BASINS, WHICH ARE NOT TO BE CONVERTED TO
- •TEMPIORARY AND TO FOR EMBANKMENT SLOPES ALONG THE NORMANS KILL AND HUDSON
- 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 BELOW.
- 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.
- 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 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

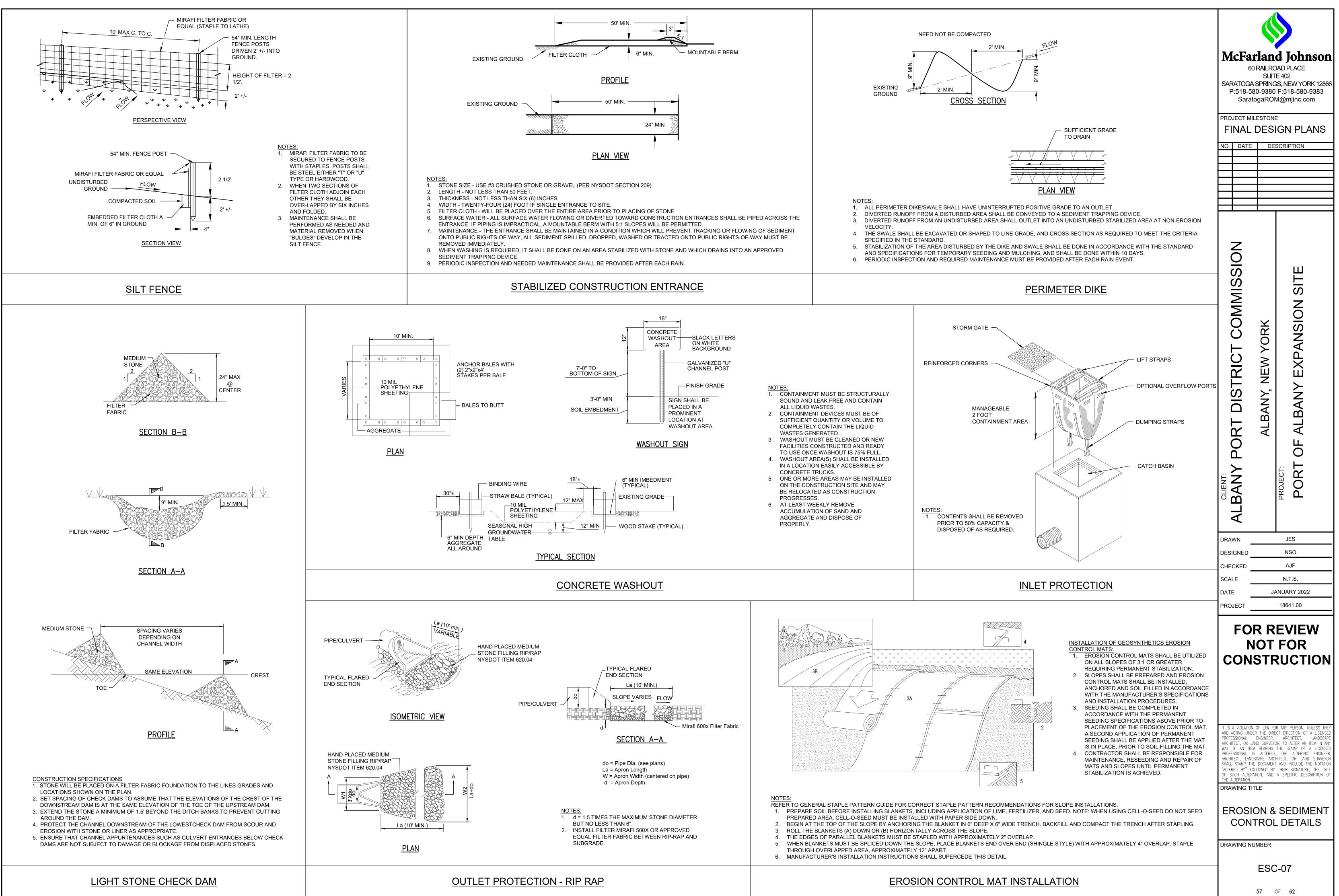
### WINTER STABILIZATION:

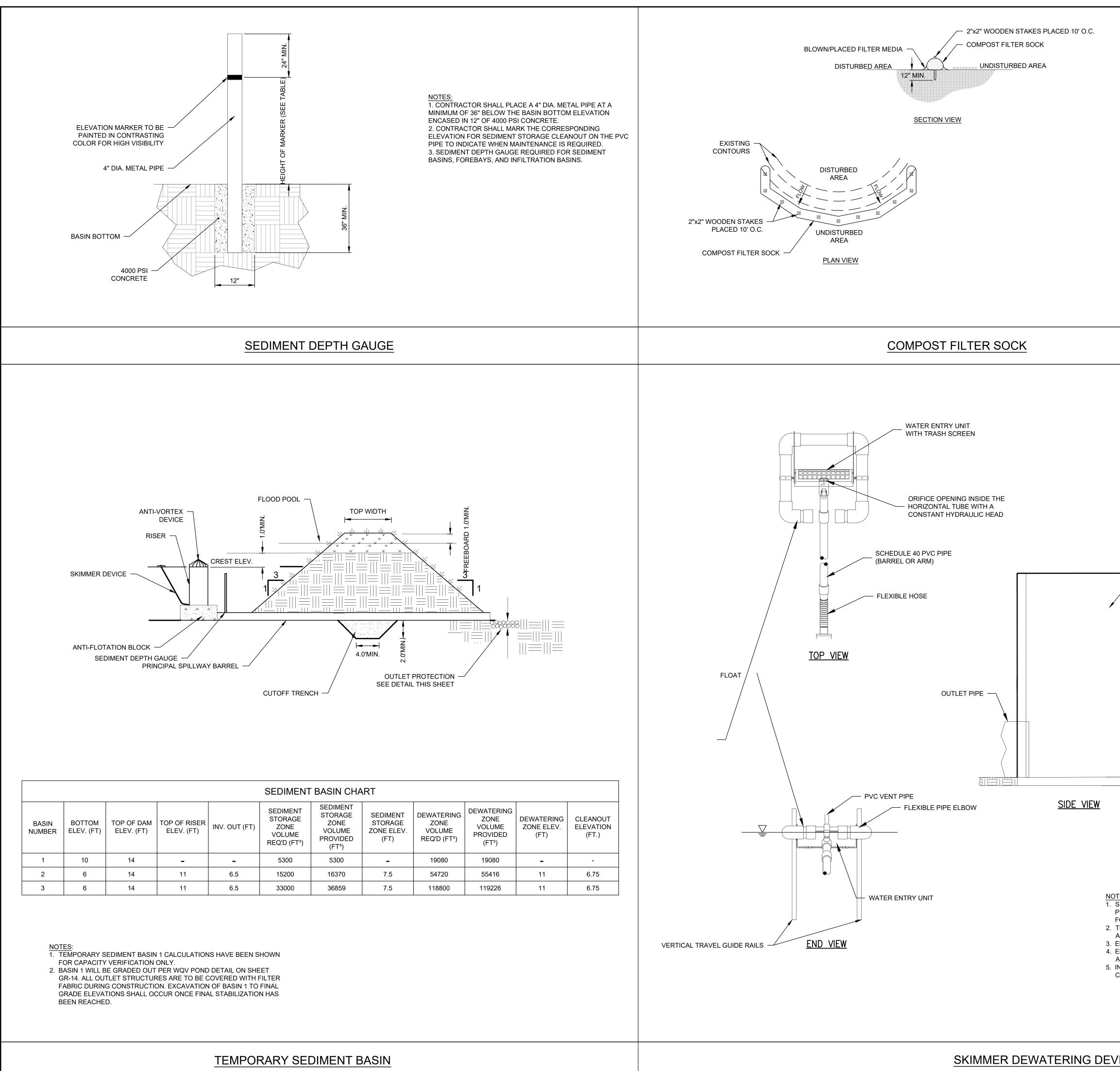
- 1. PREPARE A SNOW MANAGEMENT PLAN WITH ADEQUATE STORA AND CONTROL OF MELT WATER, REQUIRING CLEARED SNOW TO MANNER NOT AFFECTING ONGOING CONSTRUCTION ACTIVITIES 2. TO ENSURE ADEQUATE STABILIZATION OF DISTURBED SOIL IN A
- MELT EVENT, AREAS OF DISTURBED SOIL SHOULD BE STABILIZE EACH WORK DAY UNLESS:
  - A. WORK WILL RESUME WITHIN 24 HOURS IN THE SAME PRECIPITATION IS FORECAST OR; B. THE WORK IS IN DISTURBED AREAS THAT COLLECT AI RUNOFF, SUCH AS OPEN UTILITY TRENCHES, FOUNDATIC OR WATER MANAGEMENT AREAS.
- 3. IF THE SITE WILL NOT HAVE EARTH DISTURBING ACTIVITIES ON THE "WINTER SEASON", ALL BARE EXPOSED SOIL MUST BE STA ESTABLISHED VEGETATION, STRAW OR OTHER ACCEPTABLE M ROCK OR OTHER APPROVED MATERIAL SUCH AS ROLLED ERO PRODUCTS. SEEDING OF AREAS WITH MULCH COVER IS PREFE SEEDING ALONE IS NOT ACCEPTABLE FOR PROPER STABILIZATION

SOIL DISTURBANCE PHASING						
PHASE	DISTURBANCE AREA					
1	5.6 ACRES					
2	11.4 ACRES					
3	60.8 ACRES					
4	42.2 ACRES					
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.

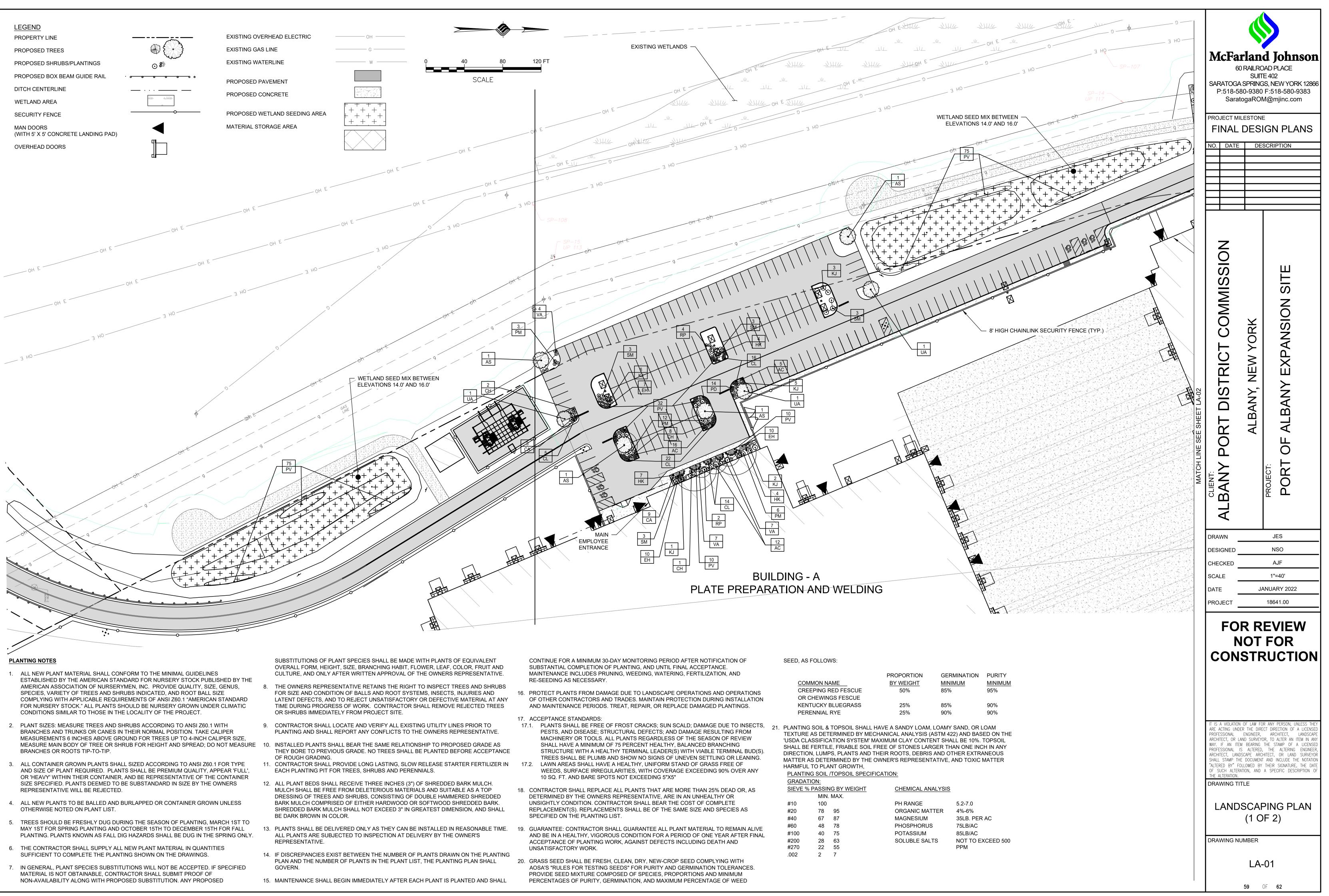
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/ULCH, MATTING, SION CONTROL ERRED BUT	FINAL DESIGN PLANS
TION.	NO. DATE DESCRIPTION
	CLIENT: BANY PORT DISTRICT COMMISSI BANY DISTRICT COMMISSI ALBANY, NEW YORK PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT: PROJECT:
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	CLIENT: BANY PROJECT: POR
	DRAWN JES
	DESIGNED NSO CHECKED AJF
	SCALE N.T.S.
	DATE JANUARY 2022 PROJECT 18641.00
	FOR REVIEW
	NOT FOR
	CONSTRUCTION
	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
	EROSION & SEDIMENT
	CONTROL NOTES
	DRAWING NUMBER
	ESC-06



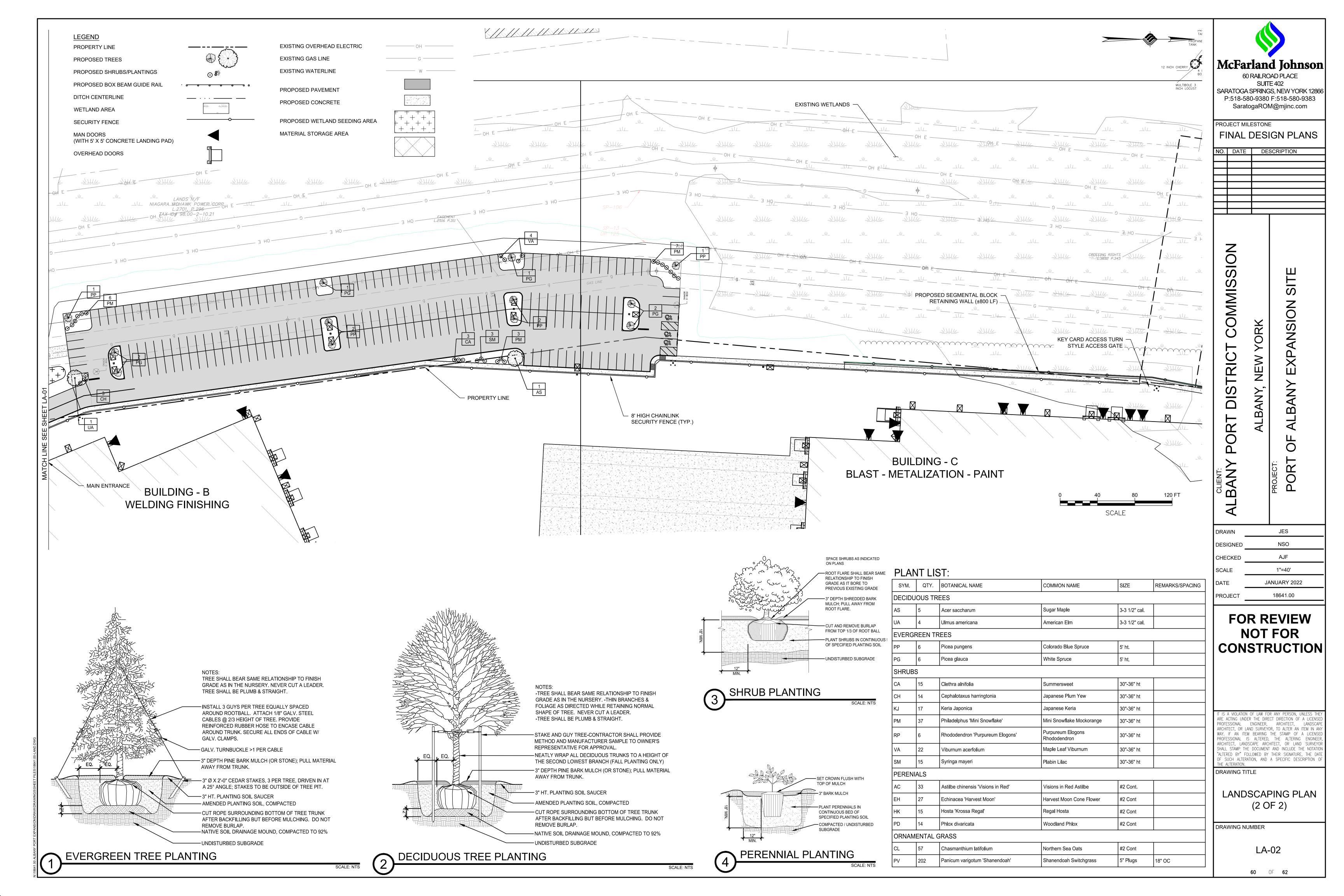


BASIN NUMBER	BOTTOM ELEV. (FT)	TOP OF DAM ELEV. (FT)	TOP OF RISER ELEV. (FT)	INV. OUT (FT)	SEDIMENT STORAGE ZONE VOLUME REQ'D (FT <sup>3</sup> )	SEDIMENT STORAGE ZONE VOLUME PROVIDED (FT <sup>3</sup> )	SEDIMENT STORAGE ZONE ELEV. (FT)	DEWATERING ZONE VOLUME REQ'D (FT <sup>3</sup> )	DEWATERING ZONE VOLUME PROVIDED (FT <sup>3</sup> )	DEWAT ZONE (F
1	10	14	-	-	5300	5300	-	19080	19080	-
2	6	14	11	6.5	15200	16370	7.5	54720	55416	1
3	6	14	11	6.5	33000	36859	7.5	118800	119226	1

<ol> <li>NOTES:         <ol> <li>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.</li> <li>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</li> </ol> </li> </ol>	SARA	60   TOGA \$ 518-58(	RAILRC SUIT SPRING 0-9380	<b>d Johnson</b> AD PLACE E 402 SS, NEW YORK 12866 F:518-580-9383 M@mjinc.com
<ul> <li>THAT SHOWN ON FIGURE X.X OF NYS STANDARDS AND</li> <li>SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.</li> <li>STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE</li> <li>SOCK IF SO SPECIFIED BY THE MANUFACTURER.</li> <li>TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.</li> </ul>		IAL [		GN PLANS
<ol> <li>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.</li> <li>SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH</li> </ol>	NO.	DATE	DE	SCRIPTION
<ul> <li>RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.</li> <li>BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.</li> </ul>				
VEON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS STAKES SHALL BE REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.			ALBANY, NEW YORK	PROJECT: PORT OF ALBANY EXPANSION SITE
FLEXIBLE HOSE	DRAW DESIG CHECI SCALE DATE		J <i>A</i>	JES NSO AJF N.T.S. ANUARY 2022
ARM LENGTH SCHEDULE 40 PVC PIPE (BARREL OR ARM)		- OF N	ΟΤ	EVIEW FOR SUCTION
TES: 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. THE SKIMMER WILL BE PROVIDED WITH VERTICAL TRAVEL GUIDES AND A LANDING DEVICE CONSTRUCTED OF STONE. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.	ARE ACT PROFESS ARCHITEC WAY. IF PROFESS ARCHITEC SHALL S "ALTERED OF SUC THE ALTI DRAW	ING UNDER IONAL I AN ITEM IONAL IS IT, LANDS( TAMP THE BY" FOLI H ALTERAT ERATION. ING TITI	THE DIRE ENGINEER, D SURVEYC BEARING ALTERED, CAPE ARCI DOCUMENT OWED BY ON, AND LE	R ANY PERSON, UNLESS THEY CCT DIRECTION OF A LICENSED ARCHITECT, LANDSCAPE OR, TO ALTER AN ITEM IN ANY THE STAMP OF A LICENSED THE ALTERING ENGINEER, HITECT, OR LAND SURVEYOR AND INCLUDE THE NOTATION THEIR SIGNATURE, THE DATE A SPECIFIC DESCRIPTION OF SEDIMENT DETAILS
<u>/ICE DETAILS</u>	DRAW	ING NUI	ESC	<b>C-08</b> DF <b>62</b>



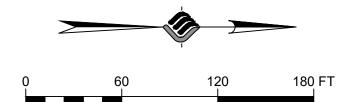
	PROPORTIO
COMMON NAME	BY WEIGHT
CREEPING RED FESCUE	50%
OR CHEWINGS FESCUE	
KENTUCKY BLUEGRASS	25%
PERENNIAL RYE	25%



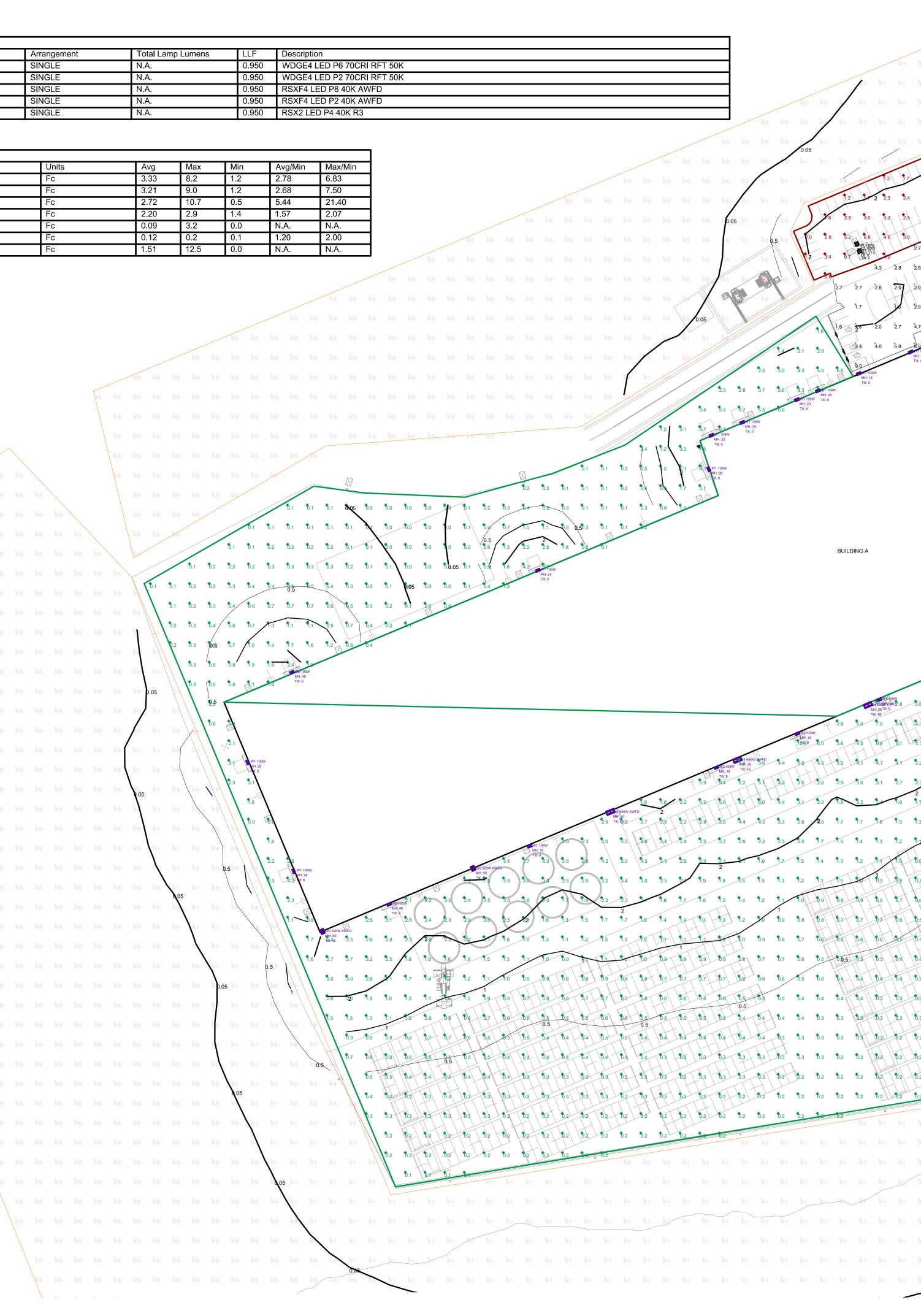
Symbol	Qty	Label	Arrangement	Total Lamp Lu
•	28	W2 185W	SINGLE	N.A.
·	51	W1 109W	SINGLE	N.A.
•	25	W4 646W AWFD	SINGLE	N.A.
•	15	W3 320W AWFD	SINGLE	N.A.
<b>. . . . . . . . . .</b>	18	P1 189W	SINGLE	N.A.

Calculation Summary

Label	CalcType	Units	Avg						
Bldg A Parking Lot_Planar	Illuminance	Fc	3.33						
Bldg A Side Lots and Drive_Plana	Illuminance	Fc	3.21						
Bldg B Parking Lot_Planar	Illuminance	Fc	2.72						
Drive Lanes in front of Bldg B_P	Illuminance	Fc	2.20						
Light Spill Areas_Planar	Illuminance	Fc	0.09						
Wharf Area_Planar	Illuminance	Fc	0.12						
Yard & Bldg Surroundings_Planar	Illuminance	Fc	1.51						
				_					



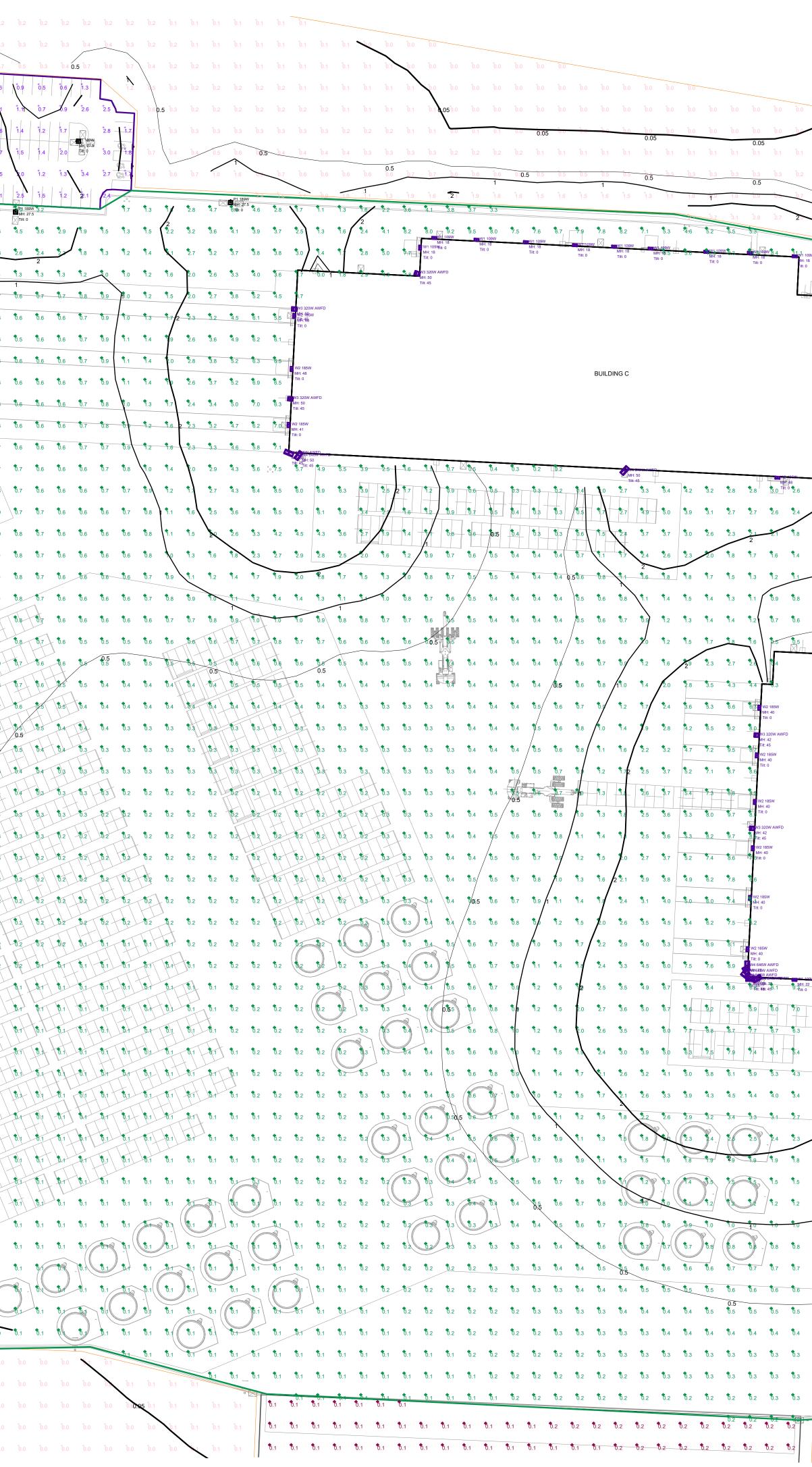
SCALE



$\begin{array}{cccccccccccccccccccccccccccccccccccc$	b.1     b.1       b.1     b.1       b.1     b.2       b.2     b.3       0.5     b.7       1.3     20       2.4     2.8       0.4.0     3.3       1.1     3.3       1.2     1.2       1.3     20       2.4     2.8       1.4     3.3       1.5     27.5       3.0     1.0	b.1     b.1       b.1     b.1       b.1     b.2       b.2     b.3       b.4     b7       2.2     2.6       2.9     3.6       2.7     3.5       3.4     2.8       3.4     2.8	b.1     b.1     b.1       b.1     b.1     b.1       b.2     b.2     b.2       b.2     b.3     b       b.4     b.7     b       0.4     0.7     0       0.4     0.7     0       0.4     0.7     0	1 $0.2$ $0.2$ 2 $0.2$ $0.2$ 4 $0.4$ $0.3$ 9 $1.8$ $0.5$ 2.8 $1.1$ 4.1 $2.4$ 5.7 $3.8$ $2.8$ 2.9 $2.3$ 2.9 $2.3$ 1.8 2.9 $2.3$ 2.9	b.1     b.1     b.1       b.1     b.1     b.1	b.1     b.1     b.1       b.1     b.1     b.1       b.2     b.2     b.2       b.2     b.3     b.2	1.6 1.2 1.1		60 SARATOGA P:518-50 Sarat PROJECT MI	DESIGN PLANS
2.0 2.3 3.2 2.8 4.2 6.4 4.7 6.3 Mittow Mitta Tite 0 0.9 18 3.6 2.1 2.2 4.3 2.5 2.1 4.3 2.8 2.0	8.4 Mit 109W Mit: 18 Tit: 0 2.3 Tit: 45 2.6 4/2 3.1 4.5	4.0 8.4 THE 0 4.0 8.4 THE 0 4.5 3.8 5.2 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	3.4     4.0     4.9       5.4     5.7     8.3       29     7.3     7.3       29     7.3     7.3       7.1     3.4     1.6       3.4     2.6     1.7       3.4     2.6     1.7       3.4     2.0     1.4       2.9     2.0     1.4       3.1.7     1.4     1.2	7.1 9.5 1.5 2.5 1.5 2.5 1.5 1.5 1.9 1.3 1.4 1.2 1.2	8.0       10.0       -3         109W       MH: 13444320W         11:09W       MH: 1344431         11:0       11:0         11:0       11:0         11:0       11:0         11:0       11:0         11:0       11:0         11:0       11:0         11:0       11:0         11:0       11:0	NPD         3.4       4.8       3.3         1100W       5.1       3.9         120       7.6       6.2       4.8         3.7       8.3       6.2       4.8         3.7       8.3       6.2       4.8         3.7       9.8       7.8       6.2         3.4       3.8       7.8       7.8         3.4       3.9       7.8       7.8         3.4       3.9       7.8       7.8         3.4       3.9       7.8       7.8         3.4       3.0       3.2       7.8         3.1       2.4       2.4       2.6         2.1       1.8       7.9         1.6       1.5       1.4	2.3 2.3 1.8 1.5 2.9 2.2 1.8 3.6 2.9 2.2 1.8 3.6 2.7 2.9 4.7 3.3 2.4 6.0 4.7 3.3 2.4 6.0 4.7 3.3 2.4 6.0 4.7 3.3 2.4 6.0 4.7 3.3 2.4 6.0 4.7 3.3 2.4 6.0 4.7 3.3 2.4 6.0 4.7 3.3 2.4 6.0 4.7 3.3 2.4 6.0 4.7 3.3 7.0 5.1 3.8 6.4 5.2 4.3 6.5 7.0 6.7 1.1 4.8 3.3 7.0 5.1 3.8 6.4 5.6 5.1 6.5 7.0 6.7 1.1 4.8 3.3 7.0 5.1 3.8 6.4 5.6 5.1 6.5 7.0 6.7 1.1 4.8 3.3 7.0 5.1 3.8 5.5 6.8 5.9 3.9 4.3 4.7 1.1 5.5 6.8 6.9 3.9 4.3 4.2 2.7 2.8 2.6 2.0 2.0 1.8 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	MATCH LINE SEE SHEET LT-02	ALBANY PORT DISTRICT COMMISSION	PROJECT: PROJECT: PORT OF ALBANY EXPANSION SITE
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.4 1.3 1.1 11 1.1 11 1.1 11 1.1 11 1.1 11 1.1 11 1.1 11	1.3 1.2 1.1 1.0 1.0 0.8 0.8 0.7 0.6 1	1.3     1.1     1.1       1.01     0.9     0.8       0.9     0.8     0.7       0.07     0.8     0.7       0.6     0.5     0.4       0.5     0.4     0.4	0,7 0,7 0,6 0,5 0,5 0,5 0,4 0,4	D.9     D.8     D.7       D.7     D.7     D.6       D.6     D.6     D.5       D.7     D.6     D.5       D.6     D.5     D.4       D.4     D.4     D.4       D.4     D.4     D.4       D.4     D.4     D.3       D.3     D.3     D.3	0.7     0.6     0.6       0.5     0.5     0.5       0.5     0.4     0.4       0.4     0.4     0.4       0.4     0.3     0.3       0.3     0.3     0.3	b.6         b.6         b.3           b.5         b.4         b.4         b.4           b.3         b.3         b.3         b.3           b.3         b.3         b.3         b.3           b.3         b.3         b.3         b.3           b.3         b.2         b.2         b.2           b.2         b.2         b.2         b.2		DRAWN DESIGNED CHECKED SCALE DATE PROJECT	BFD BFD AJF 1"=60' JANUARY 2022 18641.00
0.6     0.6     0.5       0.5     0.4     0.4       0.4     0.4     0.3       0.3     0.3     0.3       0.3     0.2     0.2       0.2     0.2     0.2	0.5         0.5           0.4         0.4           0.3         0.3           0.2         0.2           0.2         0.2	0.5     0.4       0.4     0.4       0.3     0.3       0.3     0.3       0.3     0.2       0.2     0.2       0.2     0.2	0.5 0.4 0.2 0.4 0.4 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.1 0.1 0.1 0.1	0.3     0.3       0.3     0.3       0.3     0.3       0.3     0.3       0.2     0.2       0.2     0.2       0.2     0.2       0.2     0.2       0.2     0.2       0.1     0.1	b.3     b.3     b.3       b.2     b.2     b.2       b.2     b.1     b.1       b.1     b.1     b.1	b.2     b.2     b.2       b.2     b.2     b.2       b.2     b.2     b.2       b.2     b.2     b.1       b.1     b.1     b.1       b.1     b.1     b.1       b.1     b.1     b.1	b.2     b.2     b.2       b.2     b.2     b.2       b.2     b.2     b.2       b.2     b.2     b.1       b.1     b.1     b.1		N CON	R REVIEW IOT FOR STRUCTION
b.2         b.2         b.2           b.2         b.1         b.1           b.1         b.1         b.1	b.2         b.1           b.1         b.1           b.1         b.1           b.1         b.1	b1         5.1           b.1         b.1           b.1         b.1           b.1         b.1	b.1     b.1     b.1       b.1     b.1     b.1       b.1     b.1     b.1       b.1     b.1     b.1	.1 0.1 0.1 .1 0.1 0.1 .1 0.1 0.1 .1 0.1 0.1	b.1     b.1     b.1	b.1 b.1 b. b.1 b.1 b.	0.1 0.1 0.1 0.1 0.1		ARE ACTING UND PROFESSIONAL ARCHITECT, OR L WAY. IF AN ITE PROFESSIONAL I ARCHITECT, LANE SHALL STAMP TH "ALTERED BY" F(	I OF LAW FOR ANY PERSON, UNLESS THE ER THE DIRECT DIRECTION OF A LICENSE ENGINEER, ARCHITECT, LANDSCAF AND SURVEYOR, TO ALTER AN ITEM IN AN M BEARING THE STAMP OF A LICENSE S ALTERED, THE ALTERING ENGINEEI DSCAPE ARCHITECT, OR LAND SURVEYC E DOCUMENT AND INCLUDE THE NOTATIC DLLOWED BY THEIR SIGNATURE, THE DAT ATION, AND A SPECIFIC DESCRIPTION C
b.1         b.1         b.1           b.1         b.1         b.1           b.1         b.1         b.1           b.1         b.1         b.1	0.1     0.1       0.1     0.1	ъ́.1 ъ́.1 ъ́.1 ъ̀.1	ō.1 ō.1 ō ō.1 ō.1 ō	.1 <sup>5</sup> .1 <sup>5</sup> .1 .1 <sup>5</sup> .1 <sup>5</sup> .1	0.1 0.1 0.1 0.1 0.9	b.1 0.1 b. 5 b.0 b.0 b.0	ō.o ō.o ō.o		LIGHT	ING PLAN (1 OF 2)
b.1     b.1     b.1       b.1     b.1     b.1       b.1     b.1     b.1       b.1     b.1     b.1		b.1         0.1           b.0         b.0	t.o t.o to	.0 ō.0 ō.0 .0 ō.0 ō.0	₲.0 ₲.0 ₲.0	ზ.ი ზ.ი ზ.	b.o         b.o         b.o           b.o         b.o         b.o         b.o           b.o         b.o         b.o         b.o           b.o         b.o         b.o         b.o           b.o         b.o         b.o         b.o		DRAWING N	JMBER LT-01

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bi b	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   DATE DESCRIPTION		
	IT IS A VIOLATION ARE ACTING UNE PROFESSIONAL ARCHITECT, OR L WAY. IF AN ITE PROFESSIONAL ARCHITECT, LAN SHALL STAMP TH "ALTERED BY" F OF SUCH ALTEF THE ALTERATION. DRAWING T	N OF LAW FOR ANY P BF AJ 1"=0 JANUAR 1864 NOF LAW FOR ANY P STREET JANUAR 1864	ERSON, UNLESS THEY TION OF A LICENSED ITECT, LANDSCAPE TER AN ITEM IN ANY MP OF A LICENSED ALTERING ENGINEER, OR LAND SURVEYOR CLUDE THE NOTATION DIGNATURE, THE DATE FIC DESCRIPTION OF
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