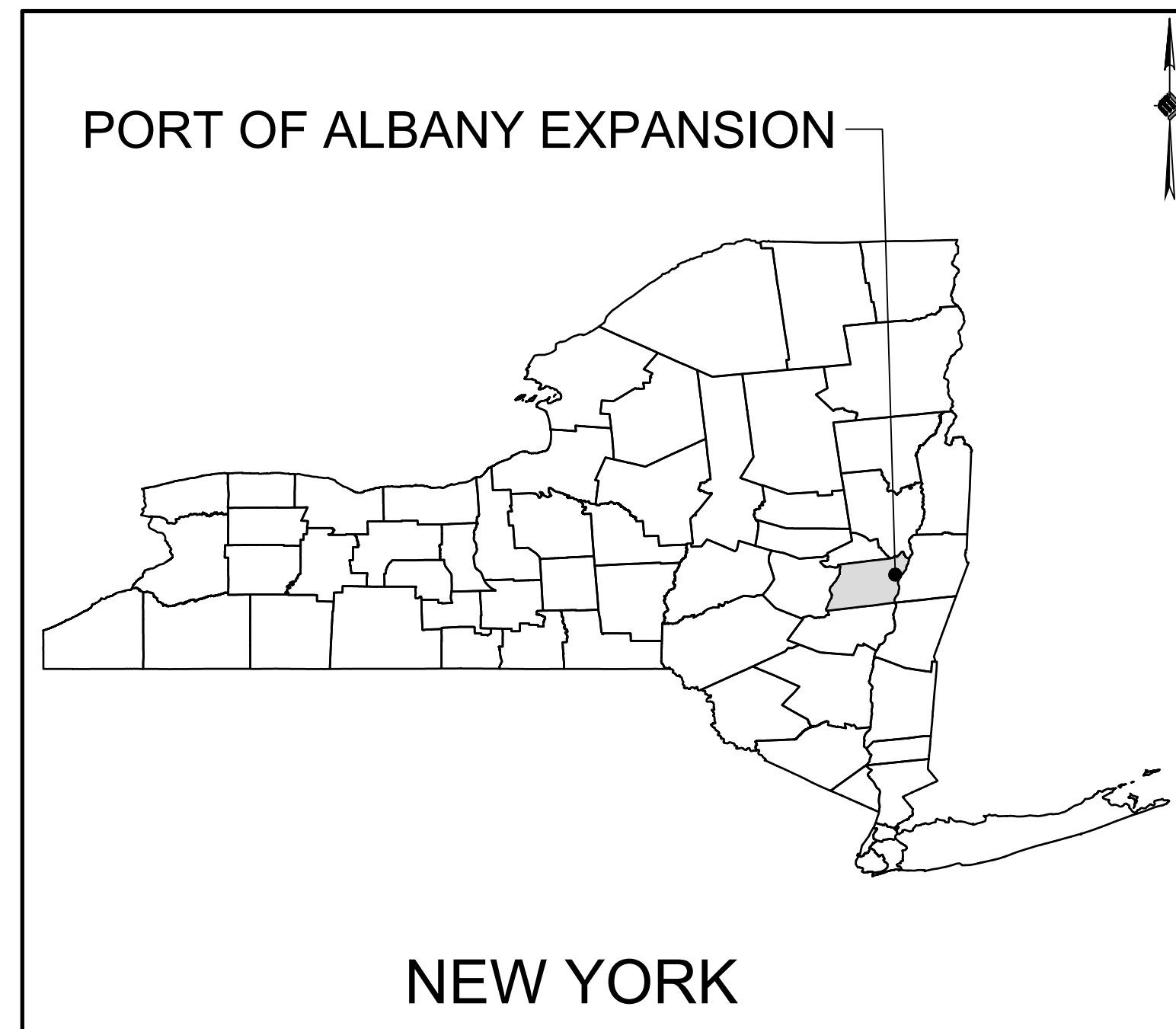


# ALBANY PORT DISTRICT COMMISSION

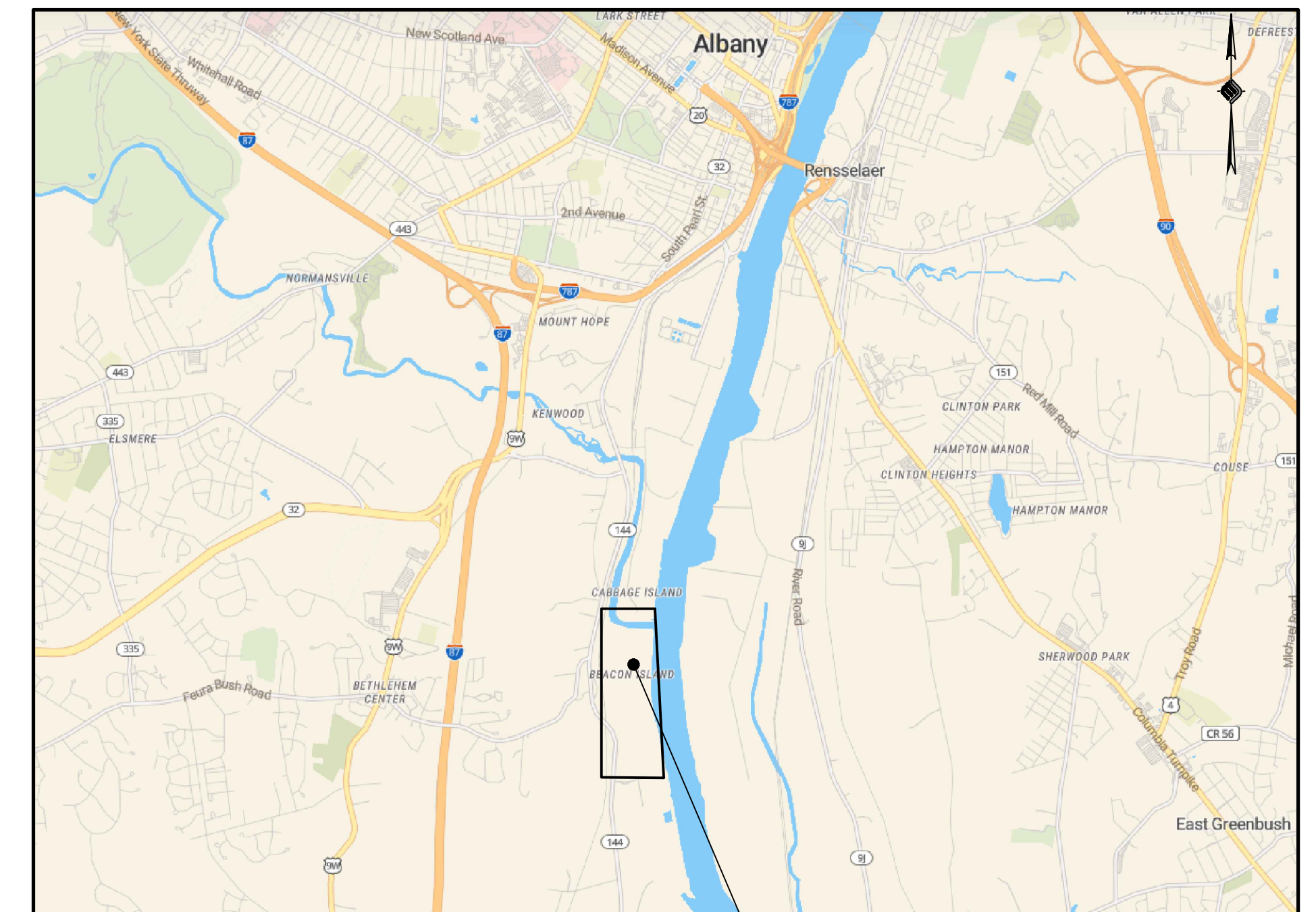
## PORT OF ALBANY EXPANSION SITE



LOCATION MAP

### PRELIMINARY PLANS OCTOBER 2021

#### TOWN OF BETHLEHEM ALBANY COUNTY NEW YORK



VICINITY MAP

PREPARED FOR:



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

PREPARED BY:



MCFARLAND JOHNSON PROJECT # 18641.00

SEALED	ADAM J. FROSINO
PE_NO	088870
PE_DATE	OCTOBER 2021

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



















**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  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE

**SITE PLAN**

DRAWING NUMBER

**SP-04**

MATCH LINE SEE SHEET SP-01

LANDS N/F  
 PSEG POWER  
 L.2701, P.296  
 TAX ID#  
 98.00-2-10.1

**BUILDING - A**  
**PLATE PREPARATION AND WELDING**  
**(289,931 SF)**

5' X 5' CONC. LANDING PAD  
 (TYP. OF ALL MAIN DOORS)

45' WIDE DRIVE ISLE

PROP. BUILDING LIGHTING (TYP.)

MATERIAL STORAGE AREA

PROPOSED 8' HIGH CHAINLINK SECURITY FENCE (TYP.)

LANDS N/F  
 ALBANY PORT DISTRICT COMMISSION  
 TAX ID# 98,00-2-10.23

DENSE GRADED AGGREGATE YARD

PROPOSED FINISHED PRODUCT STORAGE AREA

12" CONCRETE CURB

BEGIN CURB

GRADING LIMIT LINE (TYP.)

MEDIUM STONE FILL OUTLET PROTECTION

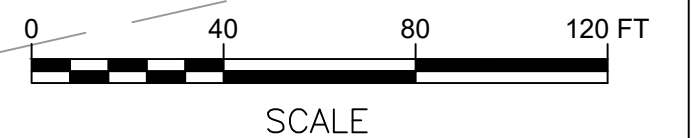
HUDSON RIVER/ NORMANS KILL MEAN HIGH HIGH WATER LIMIT (ELEV = 3.78')

WETLAND #4 HUDSON RIVER

SAV AREA #1

**HUDSON RIVER**

HUDSON RIVER NAVIGATION CHANNEL LIMIT



LEGEND	
PROPERTY LINE	---
PROPOSED BOX BEAM GUIDE RAIL	—●—●—●—●—
DITCH CENTERLINE	—+—+—+—+—
WETLAND AREA	
SECURITY FENCE	—X—X—X—X—
MAN DOORS (WITH 5' X 5' CONCRETE LANDING PAD)	
OVERHEAD DOORS (WITH CONCRETE LANDING PAD)	
GRADING LIMIT LINE	---
EXISTING OVERHEAD ELECTRIC	—OH—
EXISTING GAS LINE	—G—
EXISTING WATERLINE	—W—
PROPOSED PAVEMENT	
PROPOSED CONCRETE	
HUDSON RIVER DREDGING	
MATERIAL STORAGE AREA	
RIP-RAP WATER EMBANKMENT STABILIZATION	

N:\18641\00 ALBANY PORT DISTRICT COMMISSION\DRAWINGS\SP-SHEET PRELIMINARY\04.DWG



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PROJECT MILESTONE  
**PRELIMINARY PLANS**

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DRAWING TITLE  
**SITE PLAN**

DRAWING NUMBER  
**SP-05**

MATCH LINE SEE SHEET SP-02



**BUILDING - A**  
**PLATE PREPARATION AND WELDING**  
 (289,931 SF)

PROP. SITE LIGHTING (TYP.)

5' X 5' CONC. LANDING PAD (TYP. OF ALL MAN DOORS)

MATERIAL STORAGE AREA

LANDS N/F  
 ALBANY PORT DISTRICT COMMISSION  
 TAX ID# 98.00-2-10.23

DENSE GRADED AGGREGATE YARD

PROPOSED FINISHED PRODUCT STORAGE AREA

12" CONCRETE CURB

MEDIUM STONE FILL  
 OUTLET PROTECTION

GRADING LIMIT LINE (TYP.)

EDGE OF WATER

WETLAND #3

SAV AREA #2

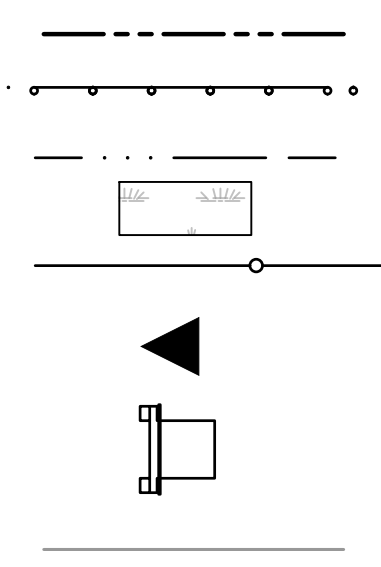
HUDSON RIVER/ NORMANS  
 KILL MEAN HIGH HIGH WATER  
 LIMIT (ELEV = 3.78')

EDGE OF WATER

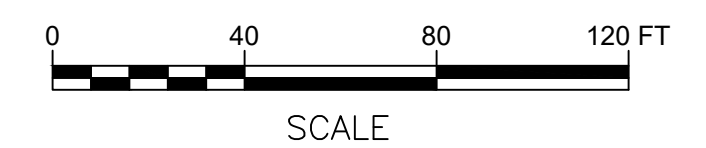
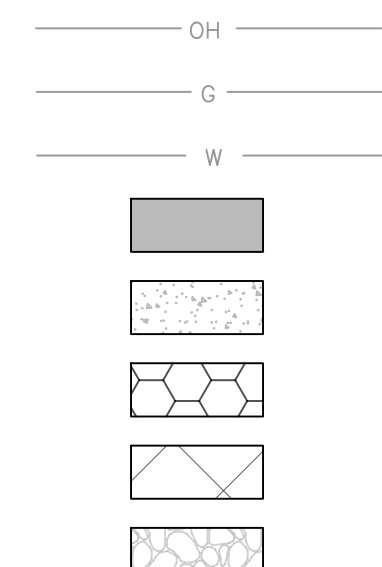
**HUDSON RIVER**

**LEGEND**

- PROPERTY LINE
- PROPOSED BOX BEAM GUIDE RAIL
- DITCH CENTERLINE
- WETLAND AREA
- SECURITY FENCE
- MAN DOORS (WITH 5' X 5' CONCRETE LANDING PAD)
- OVERHEAD DOORS (WITH CONCRETE LANDING PAD)
- GRADING LIMIT LINE



- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS LINE
- EXISTING WATERLINE
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- HUDSON RIVER DREDGING
- MATERIAL STORAGE AREA
- RIP-RAP WATER EMBANKMENT STABILIZATION

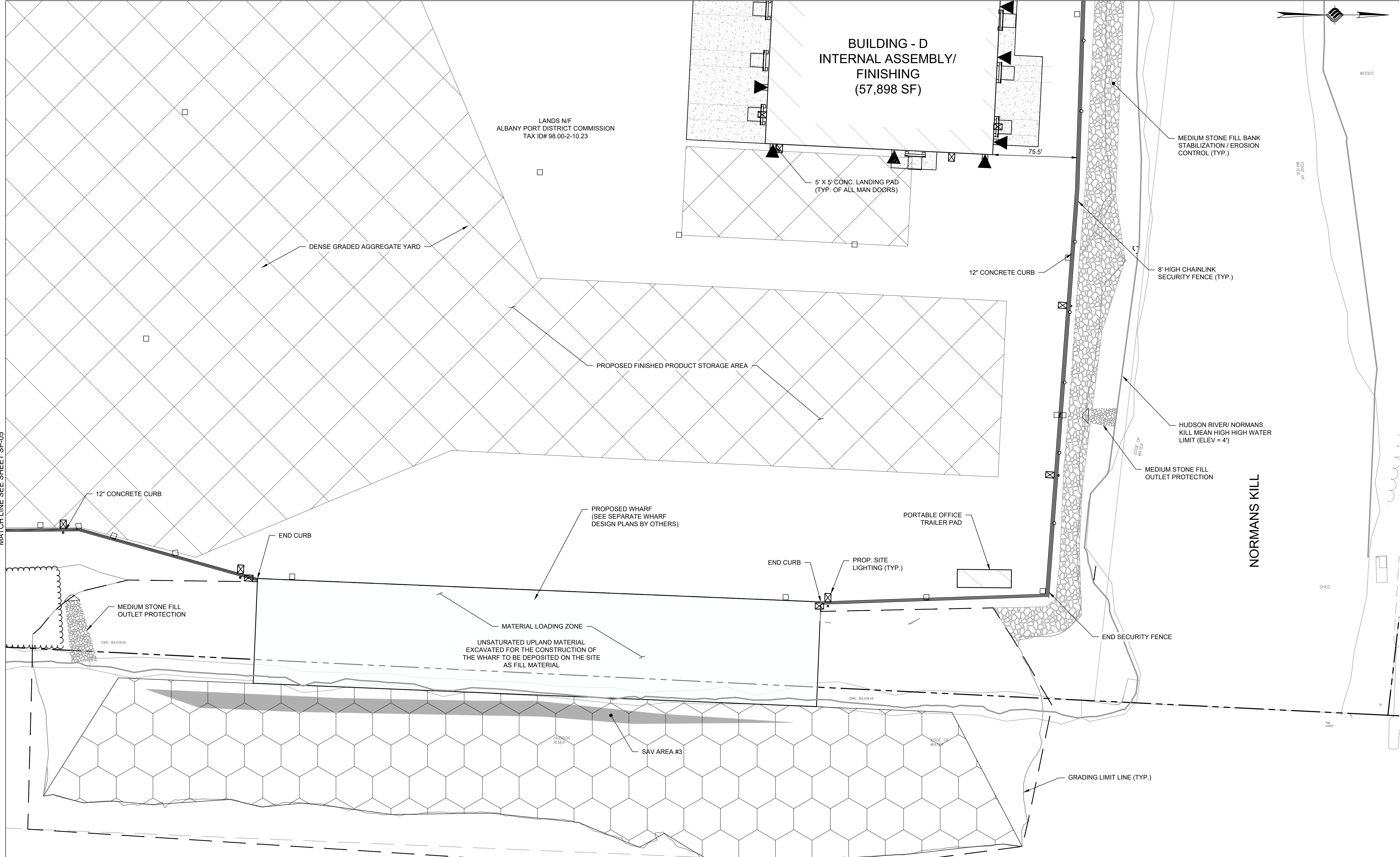


MATCH LINE SEE SHEET SP-04

MATCH LINE SEE SHEET SP-06

N:\18641\05 ALBANY PORT DISTRICT COMMISSION\DRAWINGS\SHEET FILES\SP-05.DWG

MATCH LINE SEE SHEET SP-03



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SaratogaROM@mjinc.com

PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**SITE PLAN**

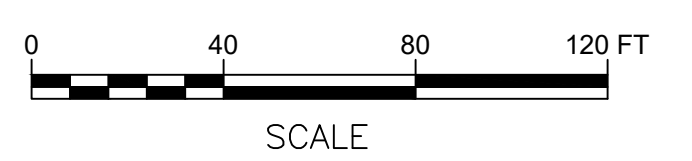
DRAWING NUMBER  
**SP-06**

MATCH LINE SEE SHEET SP-05

N:\18641.00 ALBANY PORT DISTRICT COMMISSION\DRAWINGS\SHEET FILES\DWG\18641.00.DWG

**LEGEND**

PROPERTY LINE		EXISTING OVERHEAD ELECTRIC	
PROPOSED BOX BEAM GUIDE RAIL		EXISTING GAS LINE	
DITCH CENTERLINE		EXISTING WATERLINE	
WETLAND AREA		PROPOSED PAVEMENT	
SECURITY FENCE		PROPOSED CONCRETE	
MAN DOORS (WITH 5' X 5' CONCRETE LANDING PAD)		HUDSON RIVER DREDGING	
OVERHEAD DOORS (WITH CONCRETE LANDING PAD)		MATERIAL STORAGE AREA	
GRADING LIMIT LINE		RIP-RAP WATER EMBANKMENT STABILIZATION	





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**PROJECT MILESTONE**  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

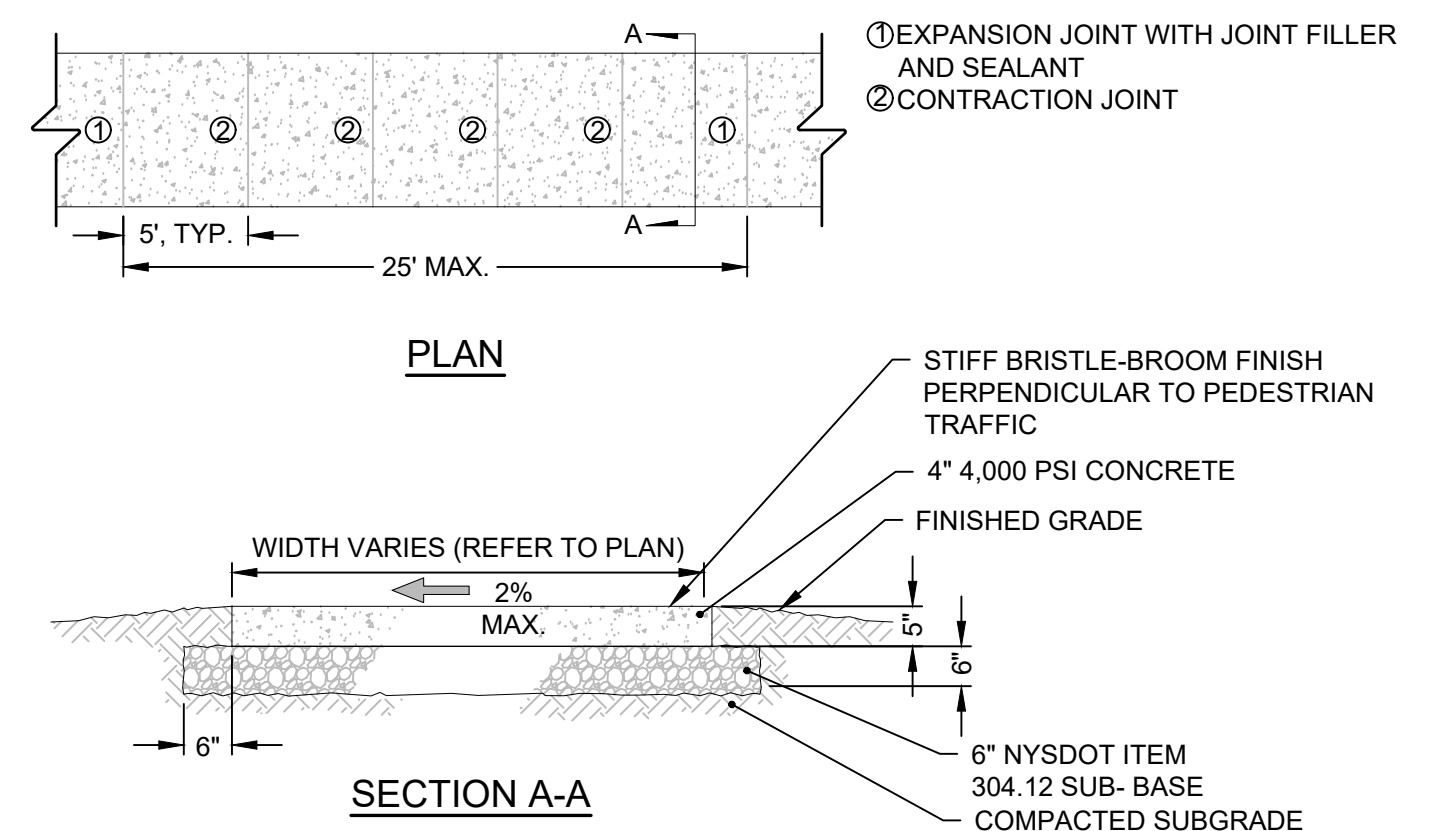
**PROJECT:**  
 PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

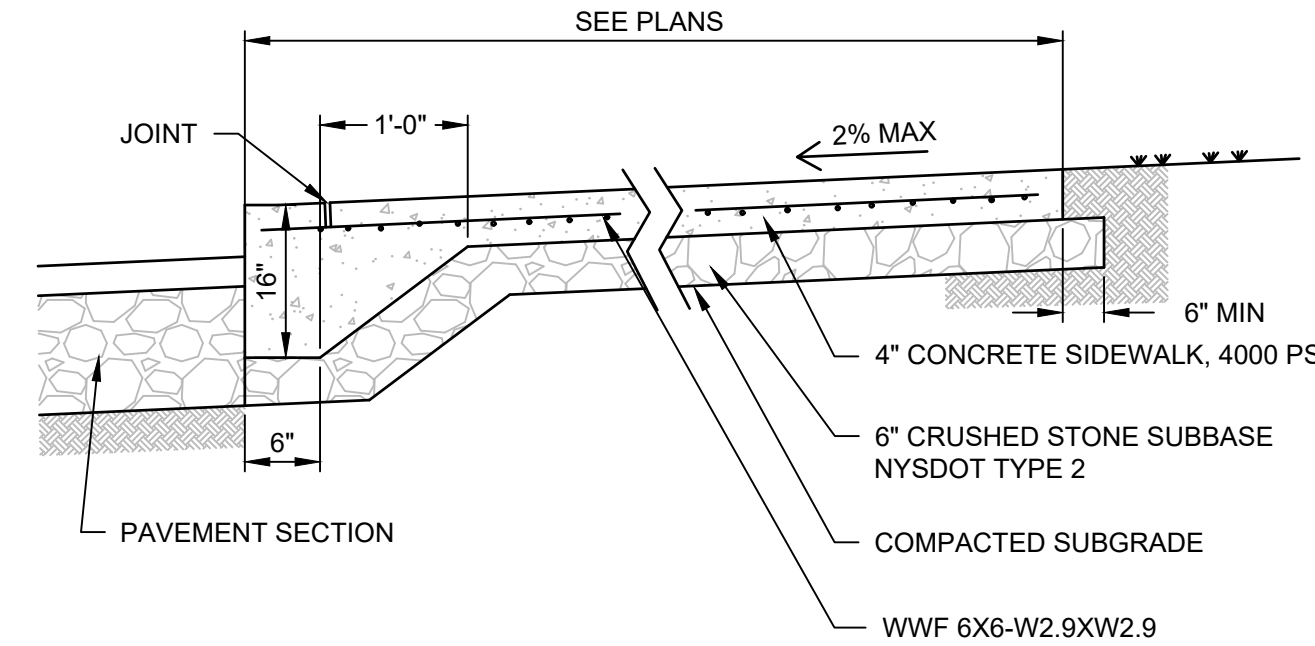
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**DRAWING TITLE**  
 SITE DETAILS

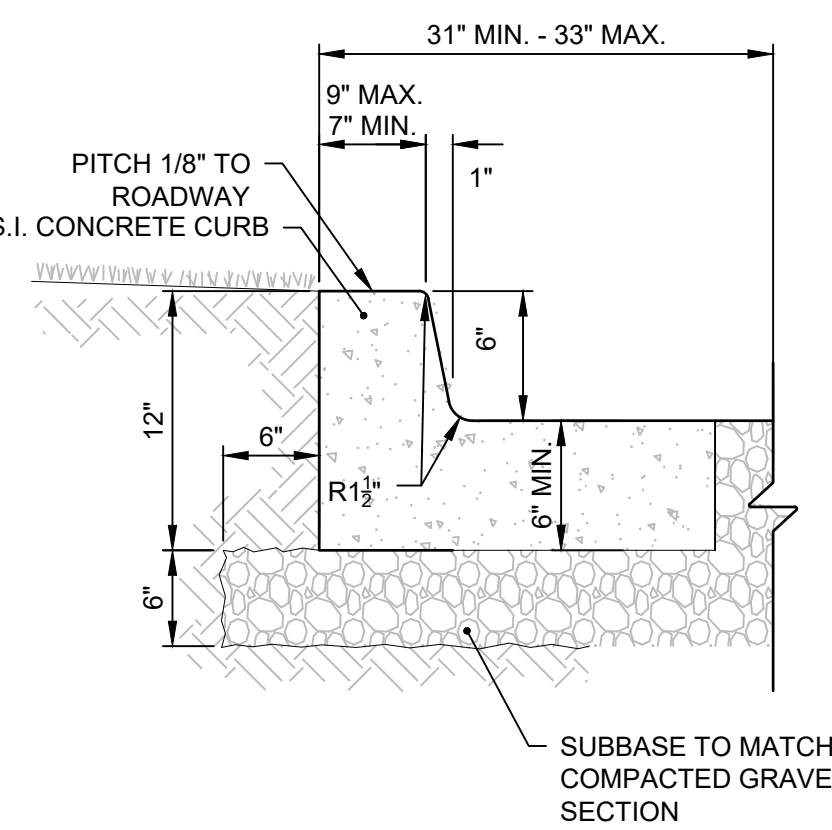
**DRAWING NUMBER**  
 SP-07



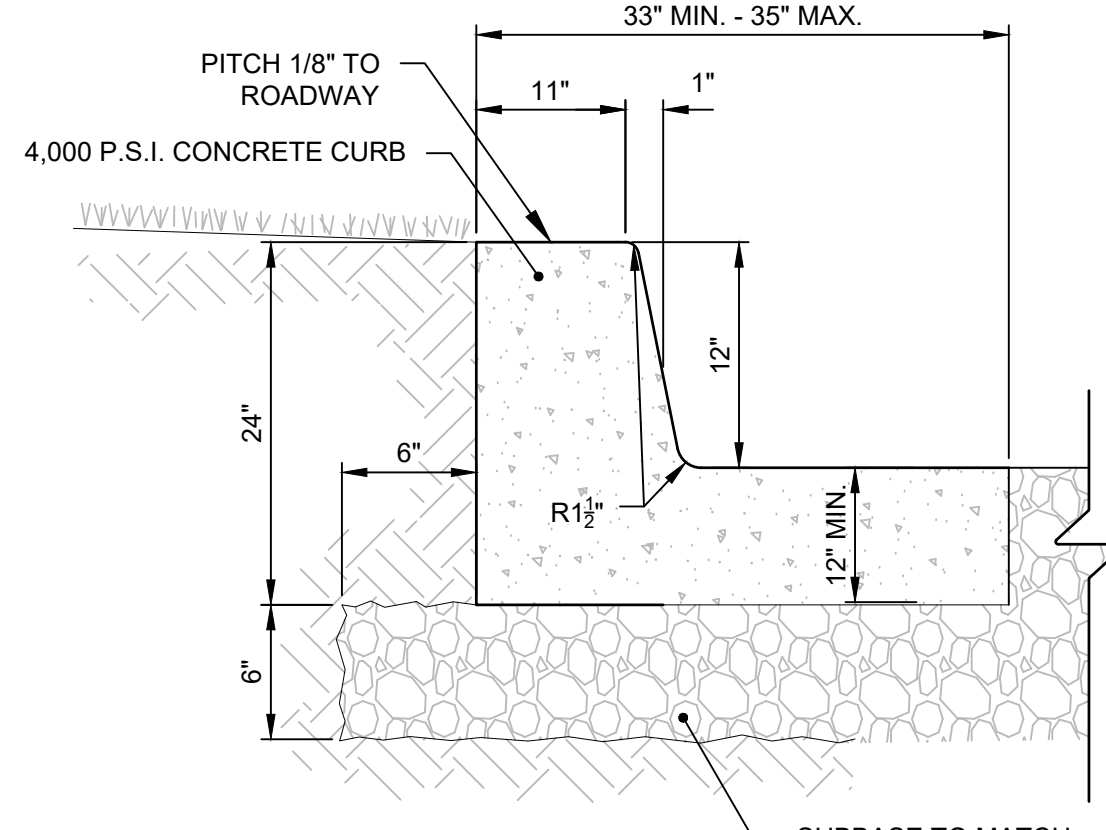
CONCRETE SIDEWALK DETAIL



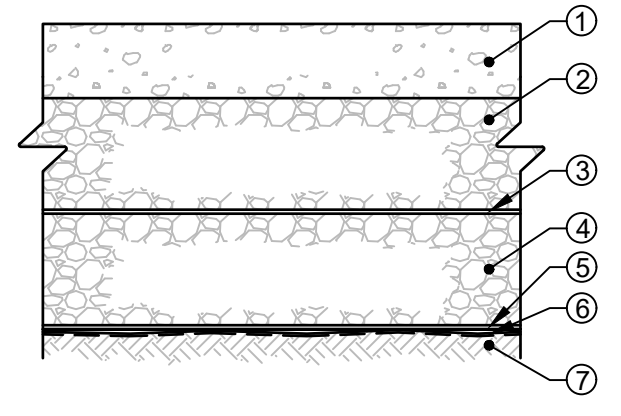
SIDEWALK / CURB SECTION DETAIL



6" CONCRETE CURB DETAIL

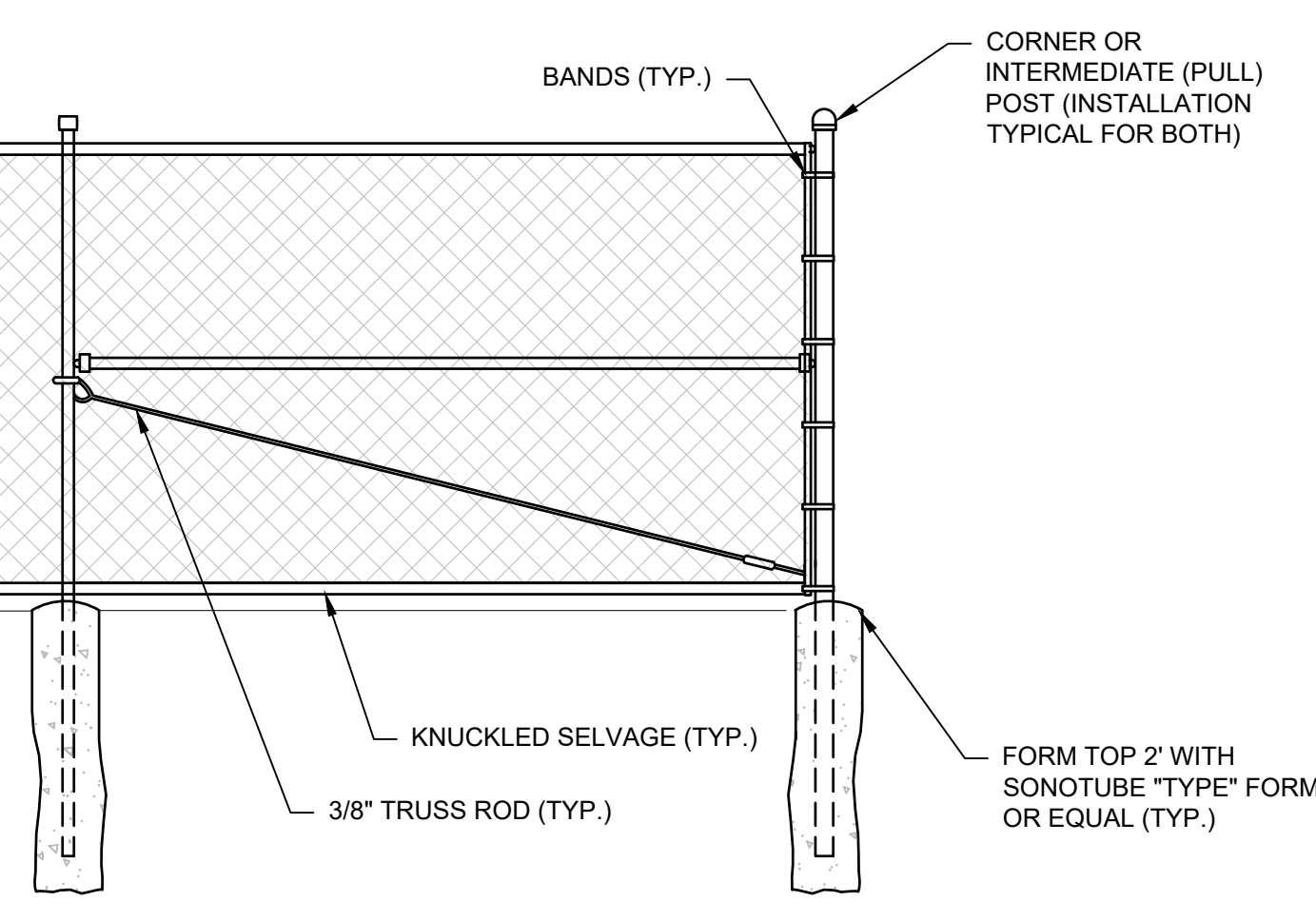


12" CONCRETE CURB DETAIL

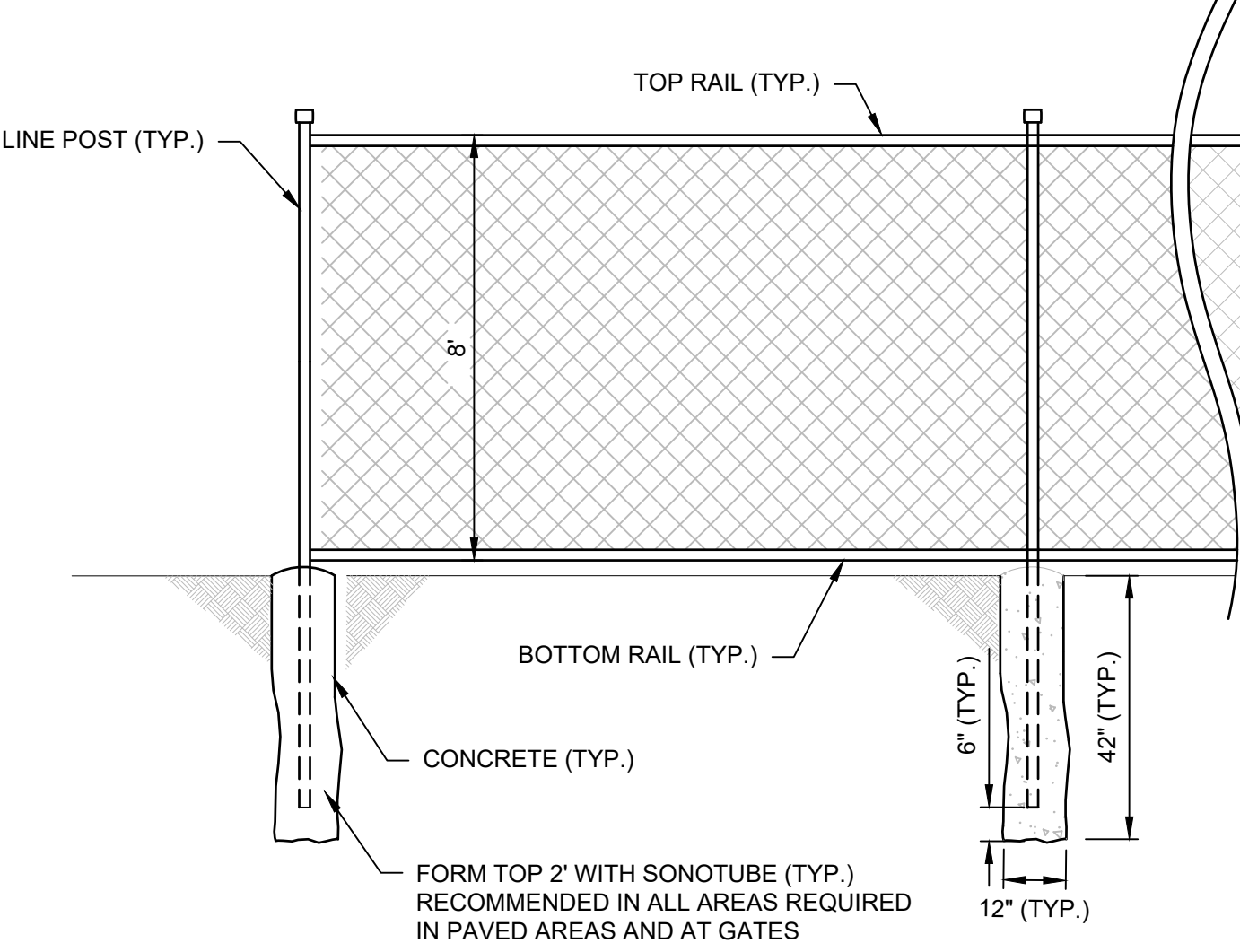


- 12" SURFACE AGGREGATE, NYSDOT ITEM 304.13 TYPE 2
  - 18" BASE AGGREGATE, NYSDOT ITEM 304.13 TYPE 2 (OR AASHTO #57 BLEND)
  - SINGLE PLY GEOGRID, TENSAR NX850 OR APPROVED EQUAL
  - 18" BASE AGGREGATE, NYSDOT ITEM 304.13 TYPE 2 (OR AASHTO #57 BLEND)
  - SINGLE PLY GEOGRID, TENSAR NX850 OR APPROVED EQUAL
  - MIRAFI 600X GEOTEXTILE FABRIC OR APPROVED EQUAL
  - COMPACTED SUBGRADE
- NOTES:**
1. COMPACT SUBGRADE TO A MODIFIED PROCTOR DENSITY OF 95%
  2. 12" SUBBASE COURSE SHALL HAVE NO MORE THAN (7%) SEVEN PERCENT BY WEIGHT FINER THAN NO. 200 SIEVE.
  3. REFER TO GEOTECHNICAL ENGINEERING REPORT FOR SUBGRADE PREPARATION/COMPACTION REQUIREMENTS.

DENSE GRADED AGGREGATE YARD SECTION

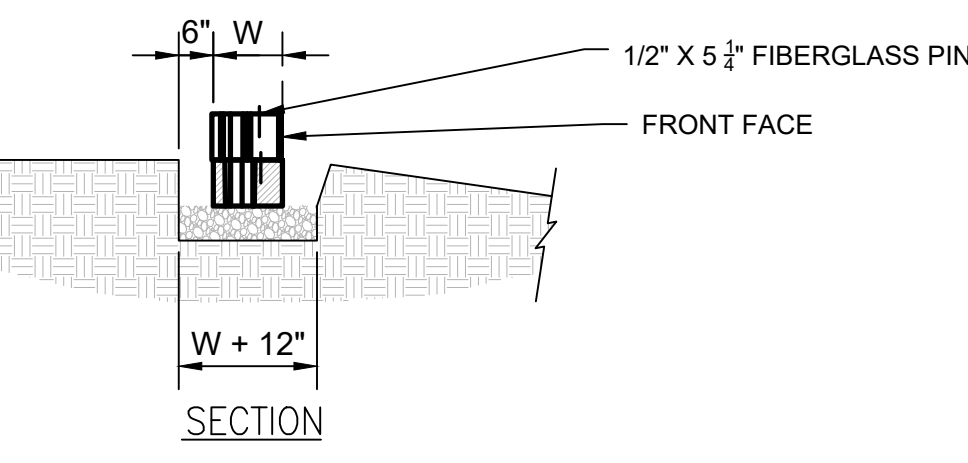


PULL OR CORNER SECTION



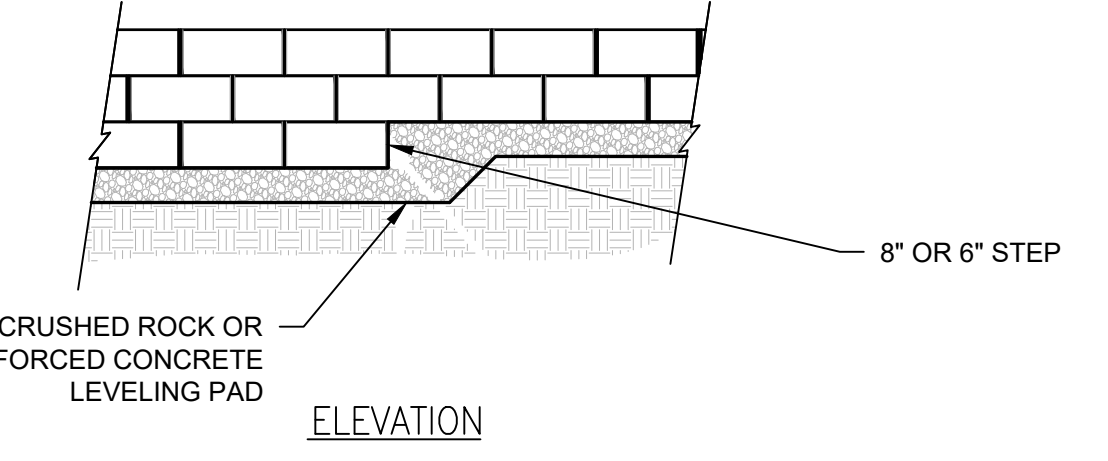
LINE SECTION

8' GALVANIZED CHAIN LINK FENCE



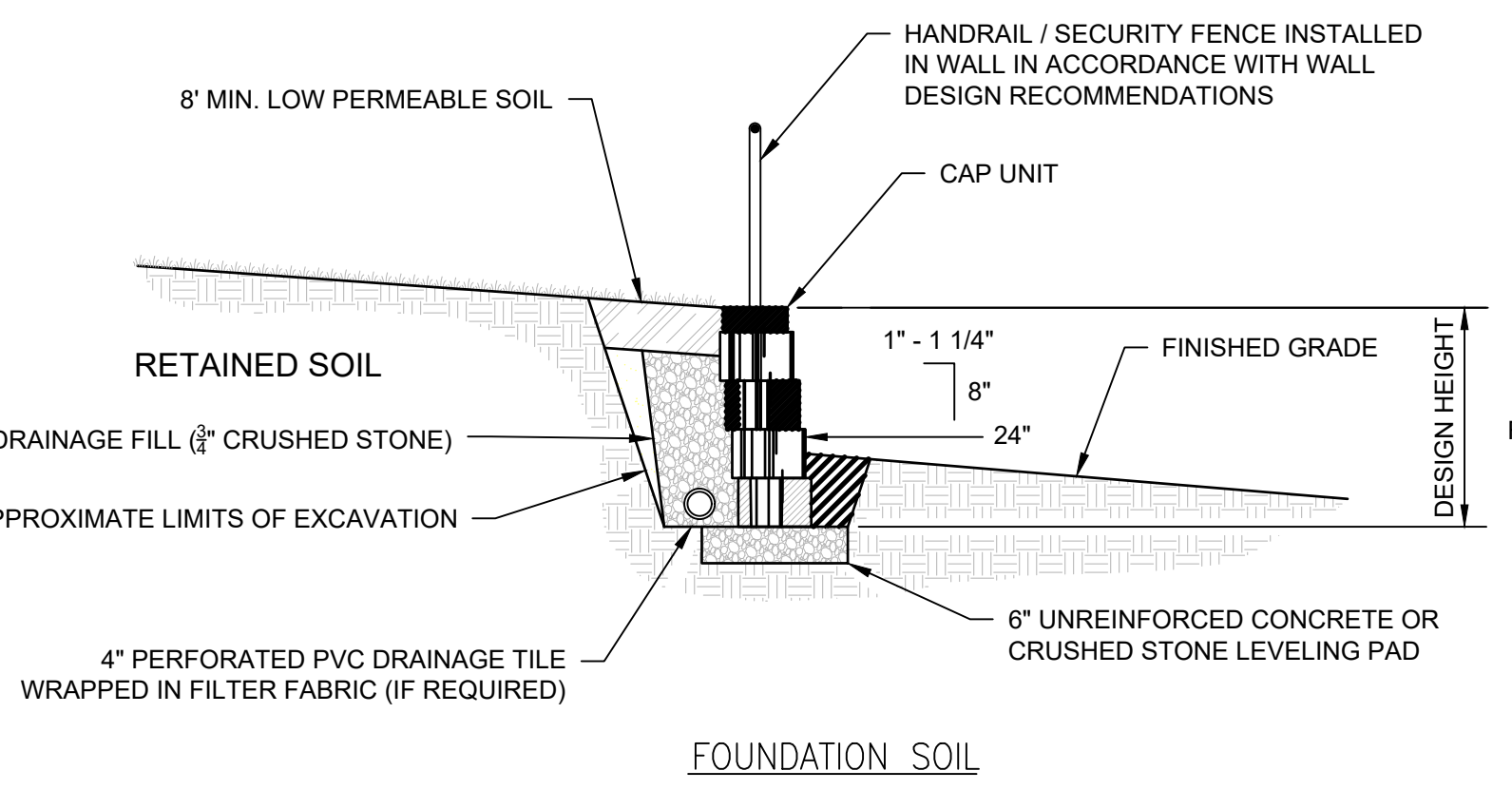
- NOTE:**
1. SEGMENTAL RETAINING WALL AS DEFINED UNDER NYSDOT #704.07 OR APPROVED EQUAL.

LEVELING PAD DETAIL



- NOTE:**
1. THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED STONE OR 2000 PSI ± UNREINFORCED CONCRETE.

ELEVATION



**TYPICAL GRAVITY WALL SECTION**

FOR REFERENCE ONLY. ACTUAL WALL TO BE DESIGNED IN ACCORDANCE WITH SITE REQUIREMENTS PER MANUFACTURER SPECIFICATIONS AND SHALL HAVE PLANS STAMPED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER

FOUNDATION SOIL

RETAINING WALL

NYSDOT 10 ALBANY PORT EXPANSION/REPAIR/RECONSTRUCTION SHEET 11E/12E/13E/14E/15E/16E/17E/18E/19E/20E/21E/22E/23E/24E/25E/26E/27E/28E/29E/30E/31E/32E/33E/34E/35E/36E/37E/38E/39E/40E/41E/42E/43E/44E/45E/46E/47E/48E/49E/50E/51E/52E/53E/54E/55E/56E/57E/58E/59E/60E/61E/62E/63E/64E/65E/66E/67E/68E/69E/70E/71E/72E/73E/74E/75E/76E/77E/78E/79E/80E/81E/82E/83E/84E/85E/86E/87E/88E/89E/90E/91E/92E/93E/94E/95E/96E/97E/98E/99E/100E

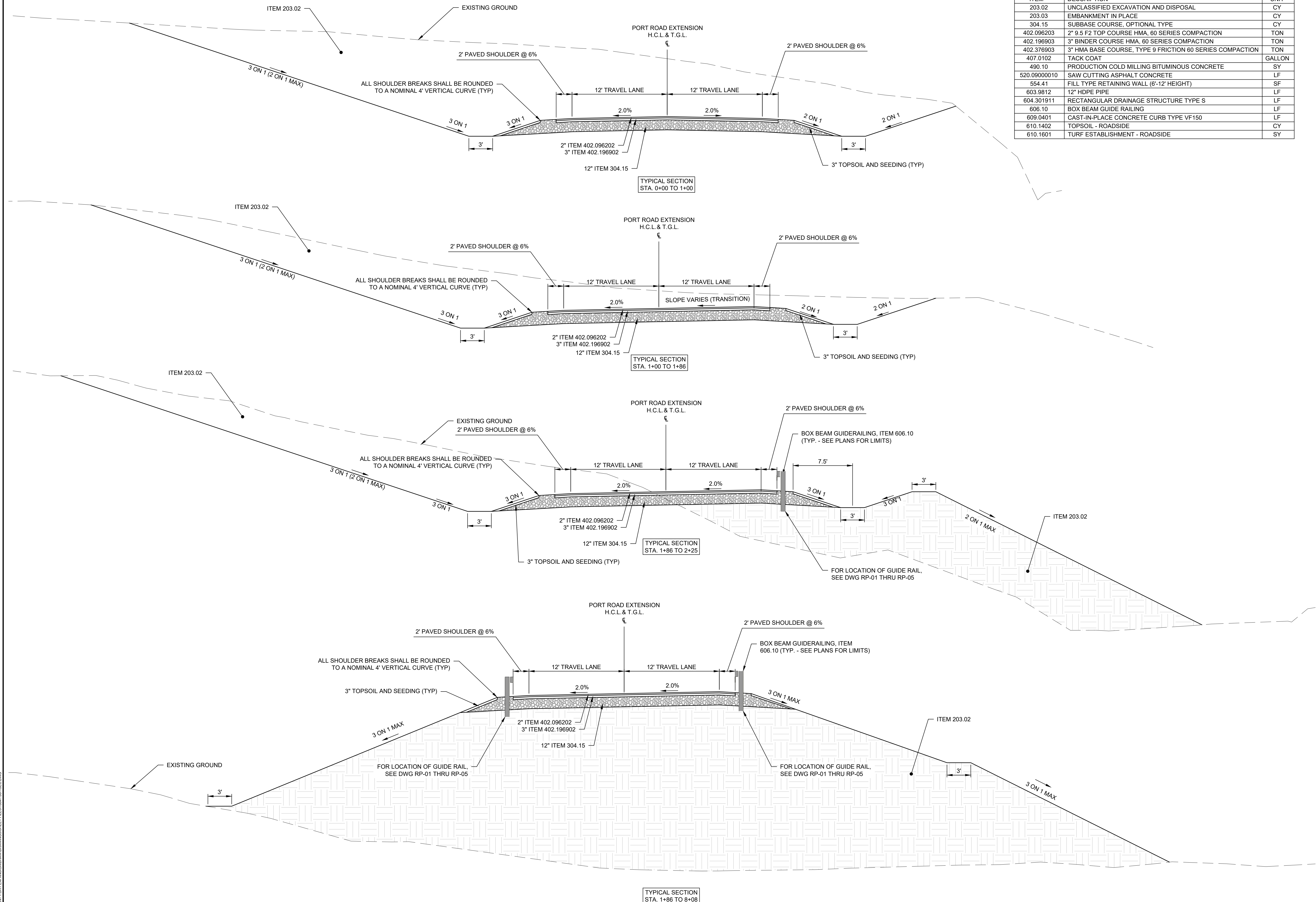


**McFarland Johnson**  
 60 RAILROAD PLACE  
 SUITE 402  
 SARATOGA SPRINGS, NEW YORK 12866  
 P:518-580-9380 F:518-580-9383  
 SaratogaROM@mjinc.com

PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY
402.096203	2" 9.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	TON
402.196903	3" BINDER COURSE HMA, 60 SERIES COMPACTION	TON
402.376903	3" HMA BASE COURSE, TYPE 9 FRICTION 60 SERIES COMPACTION	TON
407.0102	TACK COAT	GALLON
490.10	PRODUCTION COLD MILLING BITUMINOUS CONCRETE	SY
520.09000010	SAW CUTTING ASPHALT CONCRETE	LF
554.41	FILL TYPE RETAINING WALL (6'-12' HEIGHT)	SF
603.9812	12" HDPE PIPE	LF
604.301911	RECTANGULAR DRAINAGE STRUCTURE TYPE S	LF
606.10	BOX BEAM GUIDE RAILING	LF
609.0401	CAST-IN-PLACE CONCRETE CURB TYPE VF150	LF
610.1402	TOPSOIL - ROADSIDE	CY
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY



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

PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	N.T.S.
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**TYPICAL SECTION**

DRAWING NUMBER  
**TP-01**



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402.376903	3" HMA BASE COURSE, TYPE 9 FRICTION 60 SERIES COMPACTION	TON
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606.10	BOX BEAM GUIDE RAILING	LF
609.0401	CAST-IN-PLACE CONCRETE CURB TYPE VF150	LF
610.1402	TOPSOIL - ROADSIDE	CY
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY

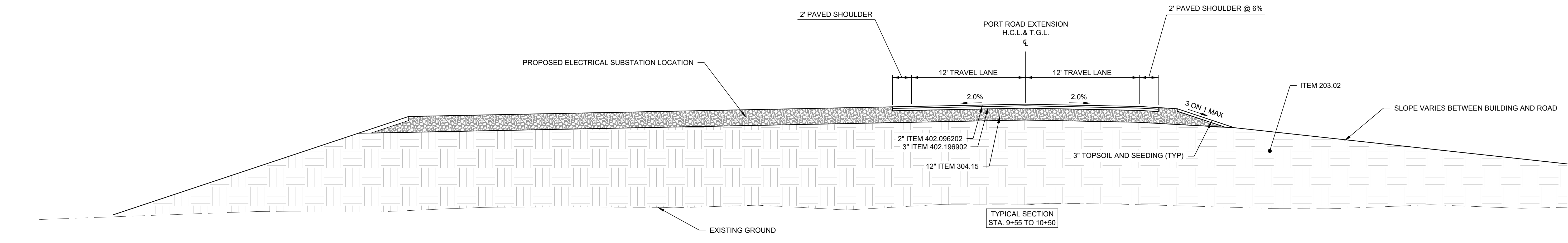
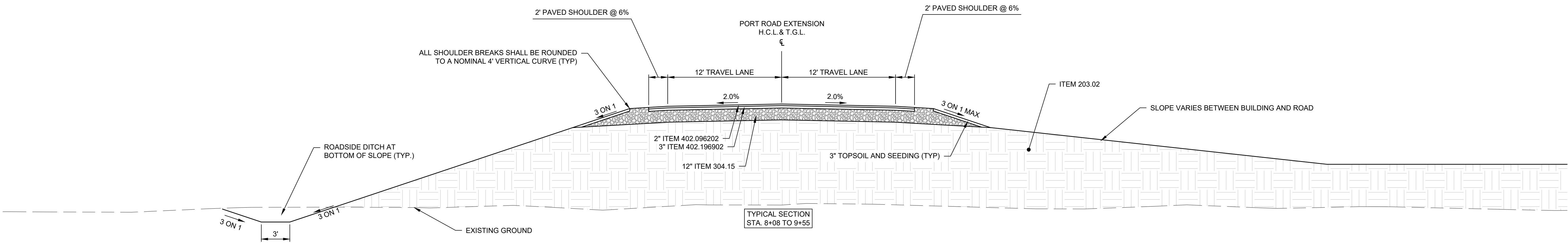
CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK  
 PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

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SCALE	N.T.S.
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DRAWING TITLE  
**TYPICAL SECTION**

DRAWING NUMBER  
**TP-02**



NUMBER OF ALBANY PORT DISTRICT COMMISSION DRAWINGS SHEET FILED IN THIS DRAWING



**McFarland Johnson**  
 60 RAILROAD PLACE  
 SUITE 402  
 SARATOGA SPRINGS, NEW YORK 12866  
 P: 518-580-9380 F: 518-580-9383  
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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

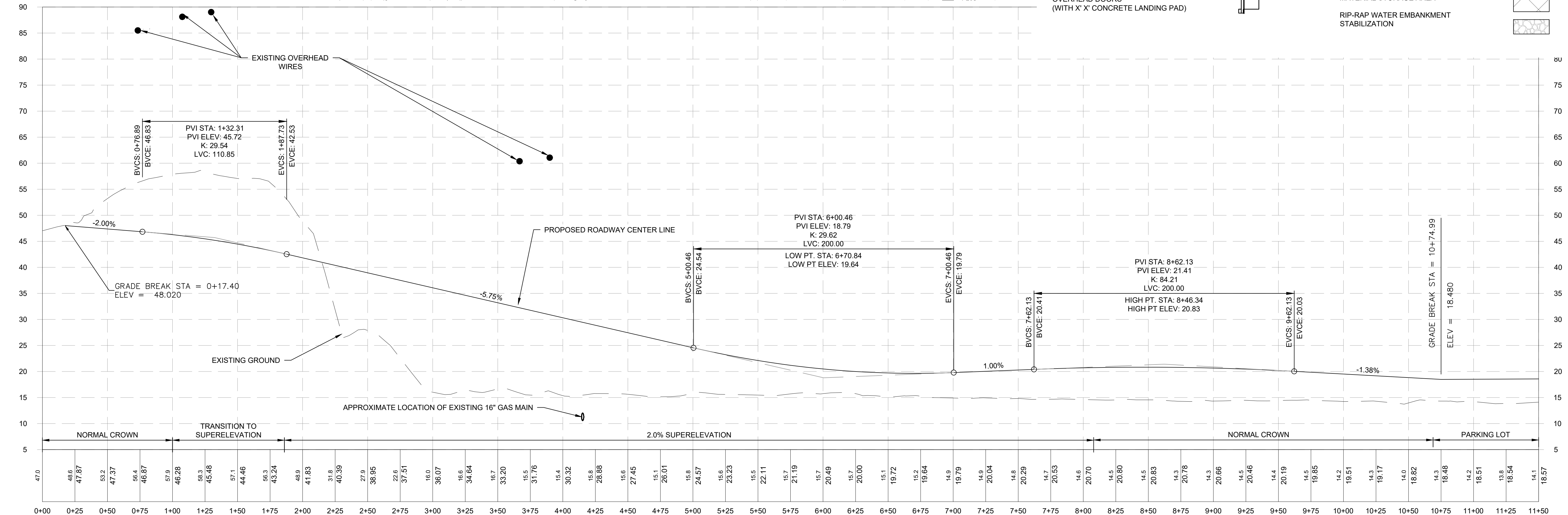
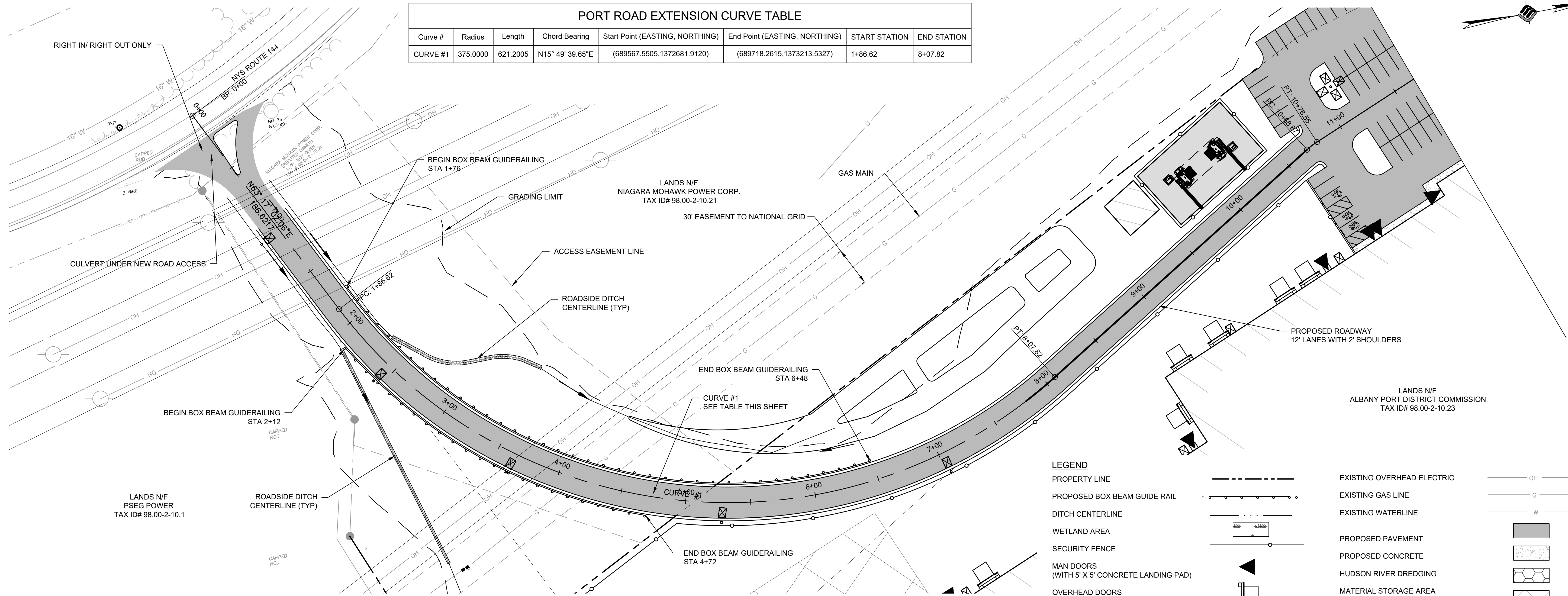
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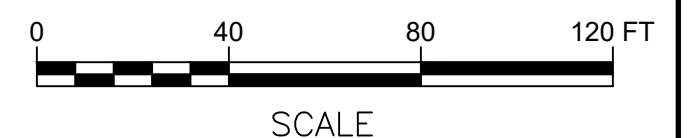
DRAWING TITLE  
**ENTRANCE ROAD PROFILE**

DRAWING NUMBER  
**PR-01**

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



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





**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  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

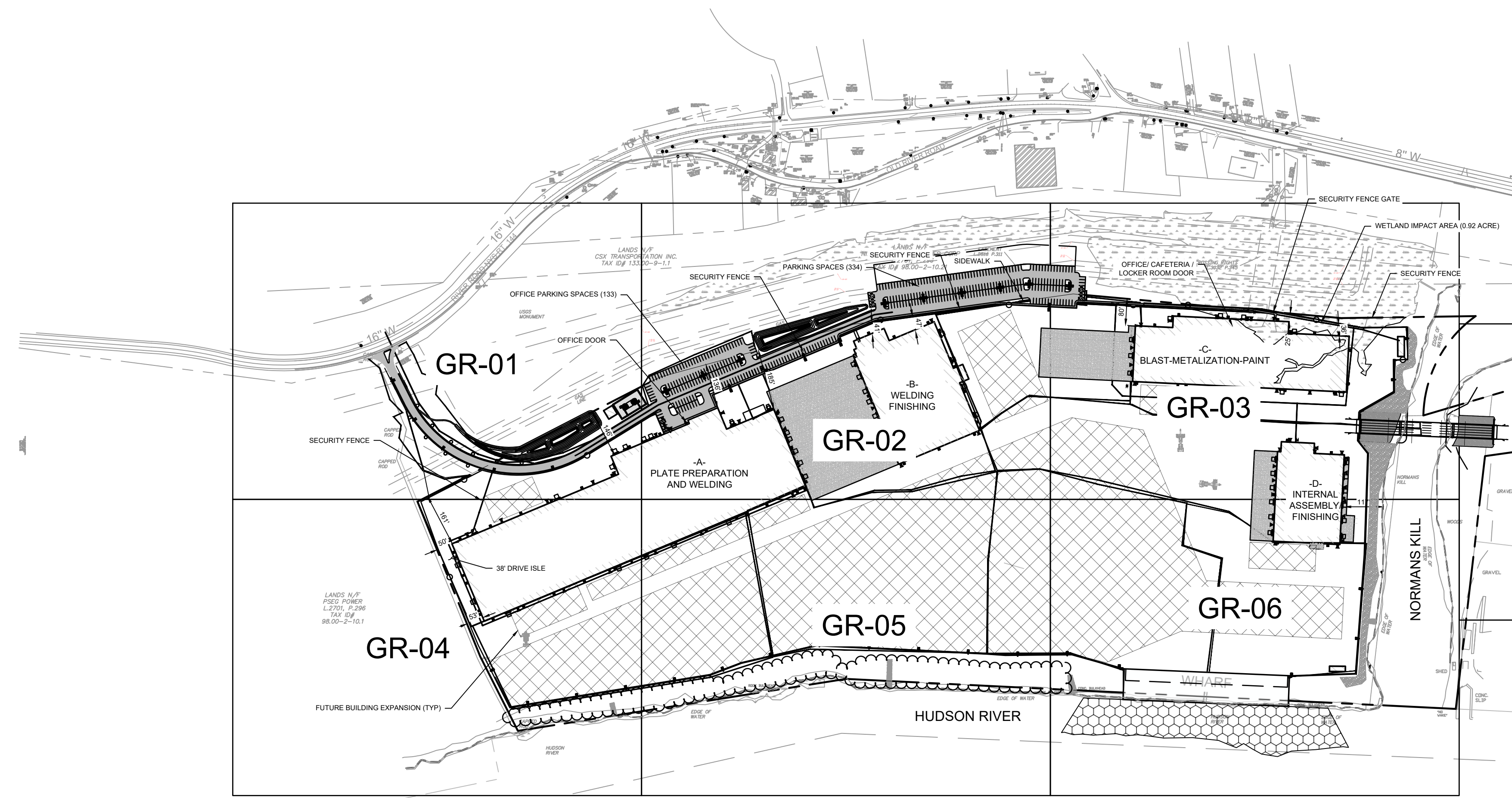
PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=250'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**GRADING, DRAINAGE NOTES & INDEX**

DRAWING NUMBER  
**GR-00**



**GRADING NOTES:**

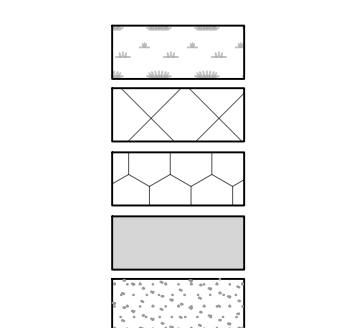
- REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDDED AS DIRECTED BY THE CONSTRUCTION MANAGER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS, INCLUDING INLET PROTECTION AND SILT FENCE. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE VEGETATION HAS OCCURRED COMPLETELY.
- 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.
- EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, ALBANY COUNTY HEALTH DEPARTMENT, AND THE TOWN OF BETHLEHEM REQUIREMENTS.
- 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.
- 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.
- 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.
- 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.
- ALL PROPOSED ELEVATIONS SHOWN HEREON ARE FINISHED GRADE ELEVATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING RIM ELEVATIONS IN RELATION TO PROPOSED GRADE PRIOR TO INSTALLATION.

**STORM SEWER:**

- ALL HDPE PIPES SHALL FOLLOW NYSDOT SECTION 603-2 AND 706-12. BE SMOOTH INTERIOR.
- PLACE RIP-RAP AROUND ALL END SECTIONS.
- 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.
- ALL CATCH BASINS AND STORM MANHOLES WITHIN PAVEMENT TO BE CONSTRUCTED TO WITHSTAND HS-20 LOADING.

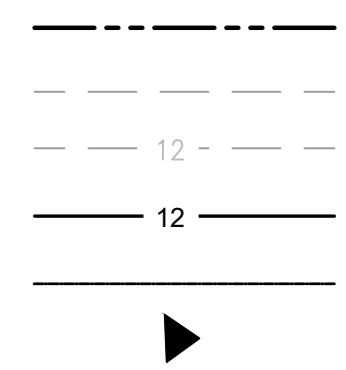
**LEGEND**

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

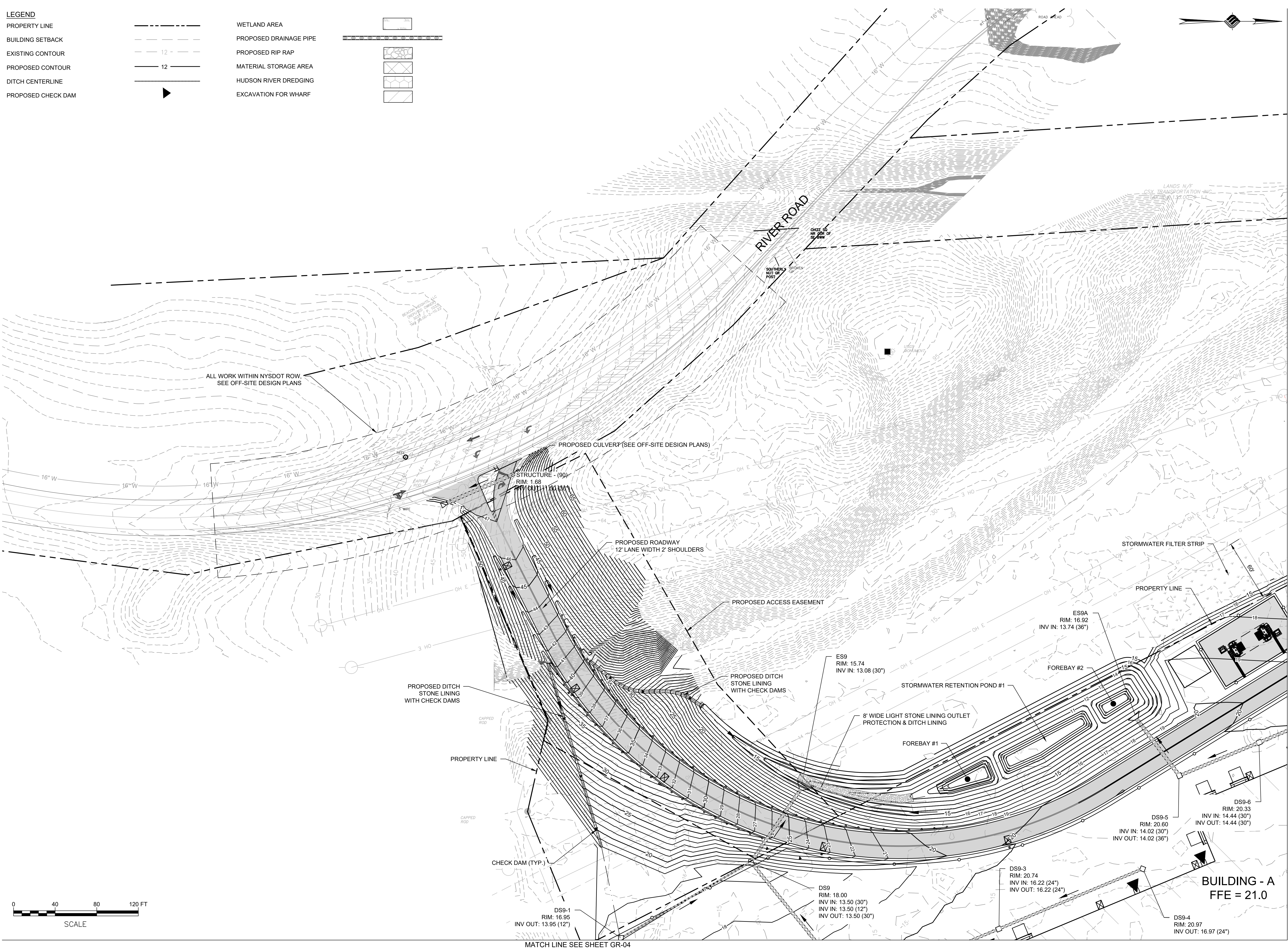
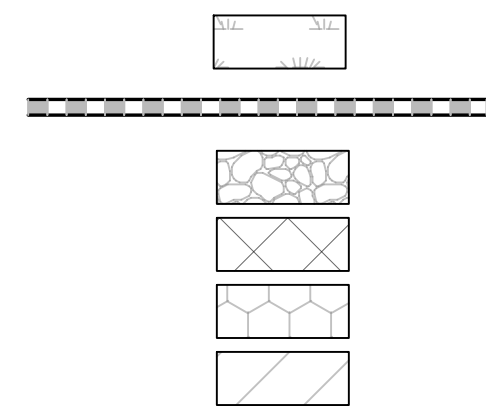




- LEGEND**
- PROPERTY LINE
  - BUILDING SETBACK
  - EXISTING CONTOUR
  - PROPOSED CONTOUR
  - DITCH CENTERLINE
  - PROPOSED CHECK DAM



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



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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

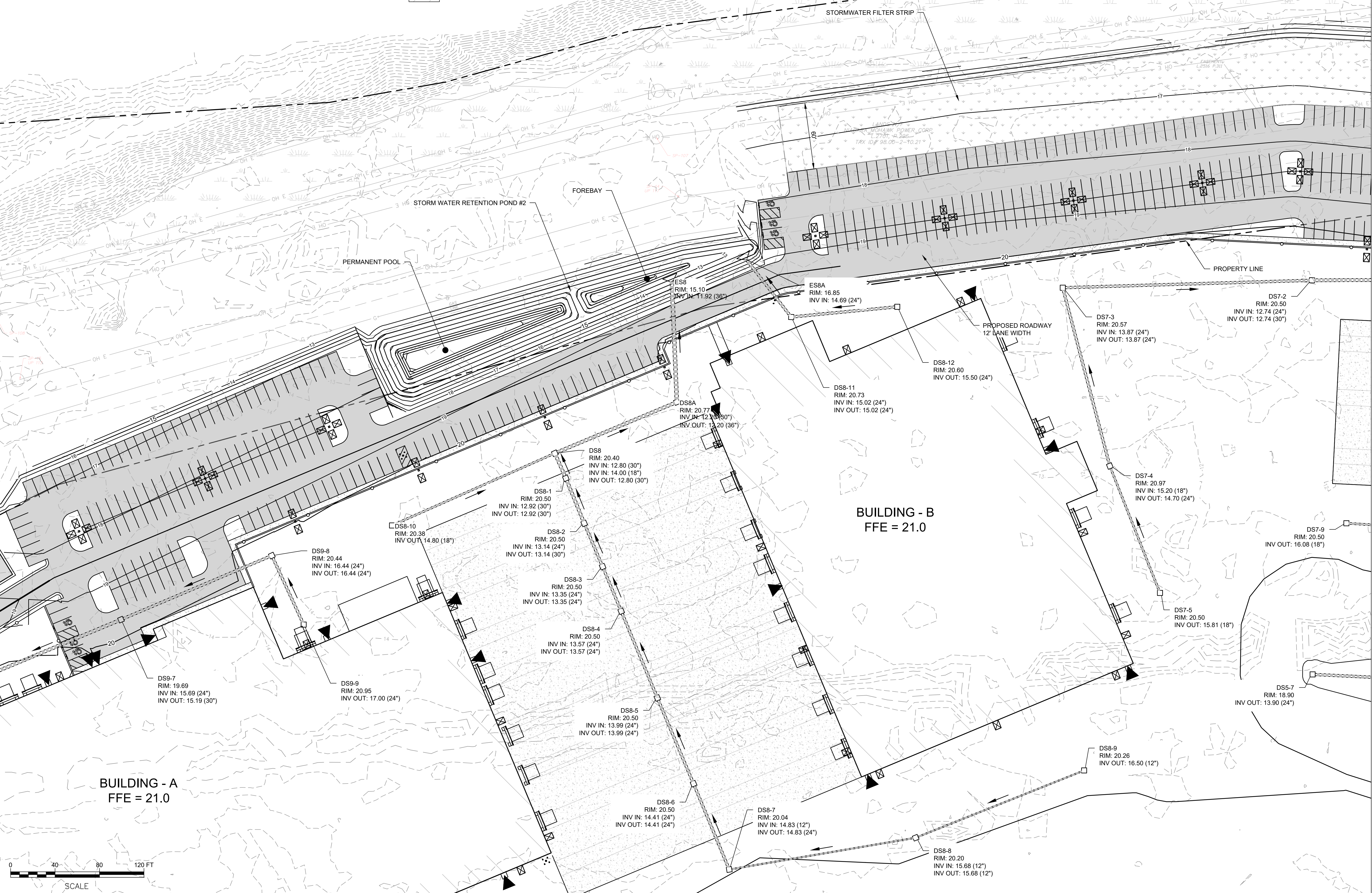
DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**GRADING & DRAINAGE**

DRAWING NUMBER  
**GR-01**

- 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
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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**GRADING & DRAINAGE**

DRAWING NUMBER  
**GR-02**



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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

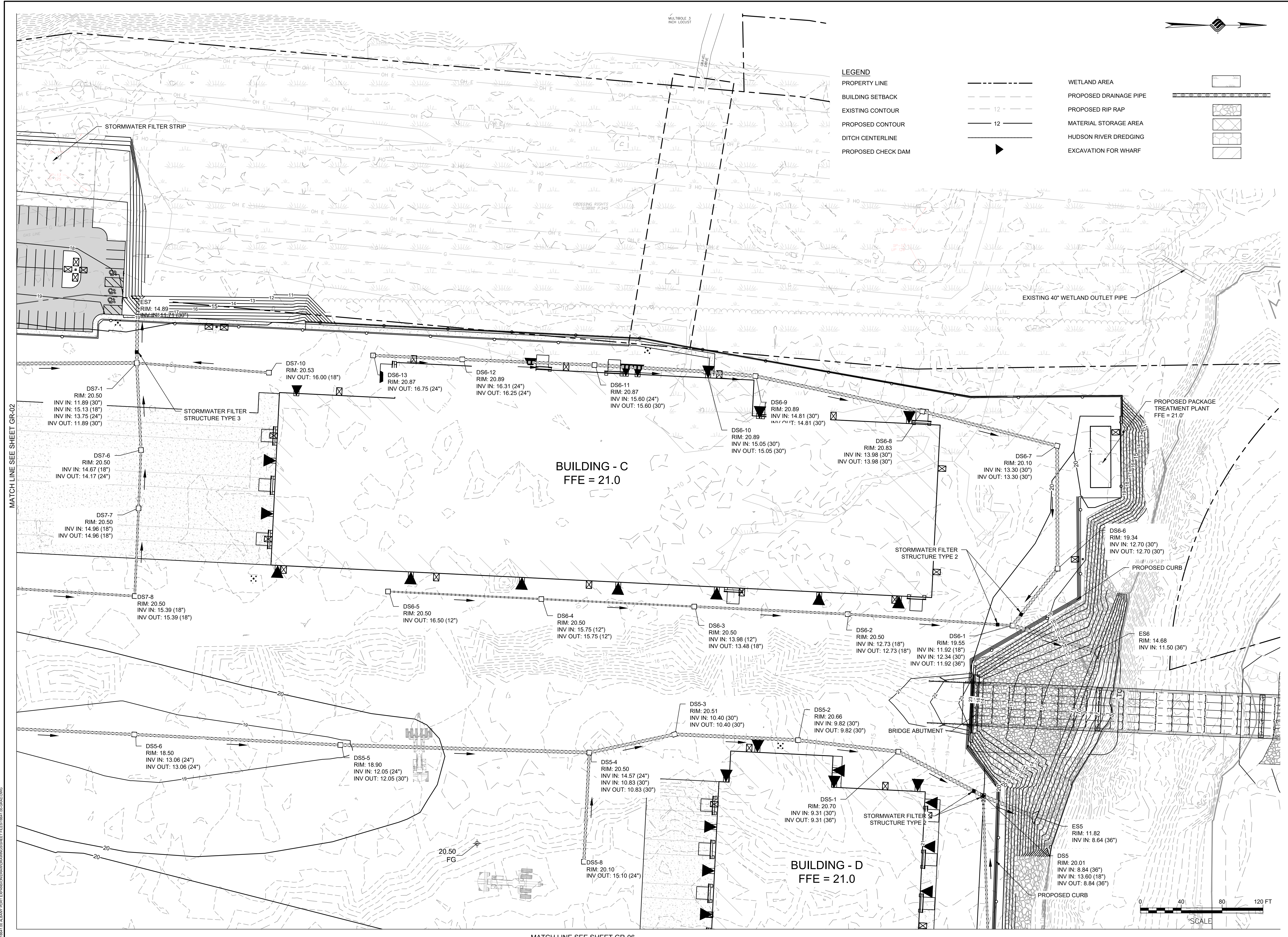
CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK  
 PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**GRADING & DRAINAGE**

DRAWING NUMBER  
**GR-03**



N:\18641\_00 ALBANY PORT EXPANSION\DRAWINGS\GRADING\GR-03.DWG



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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

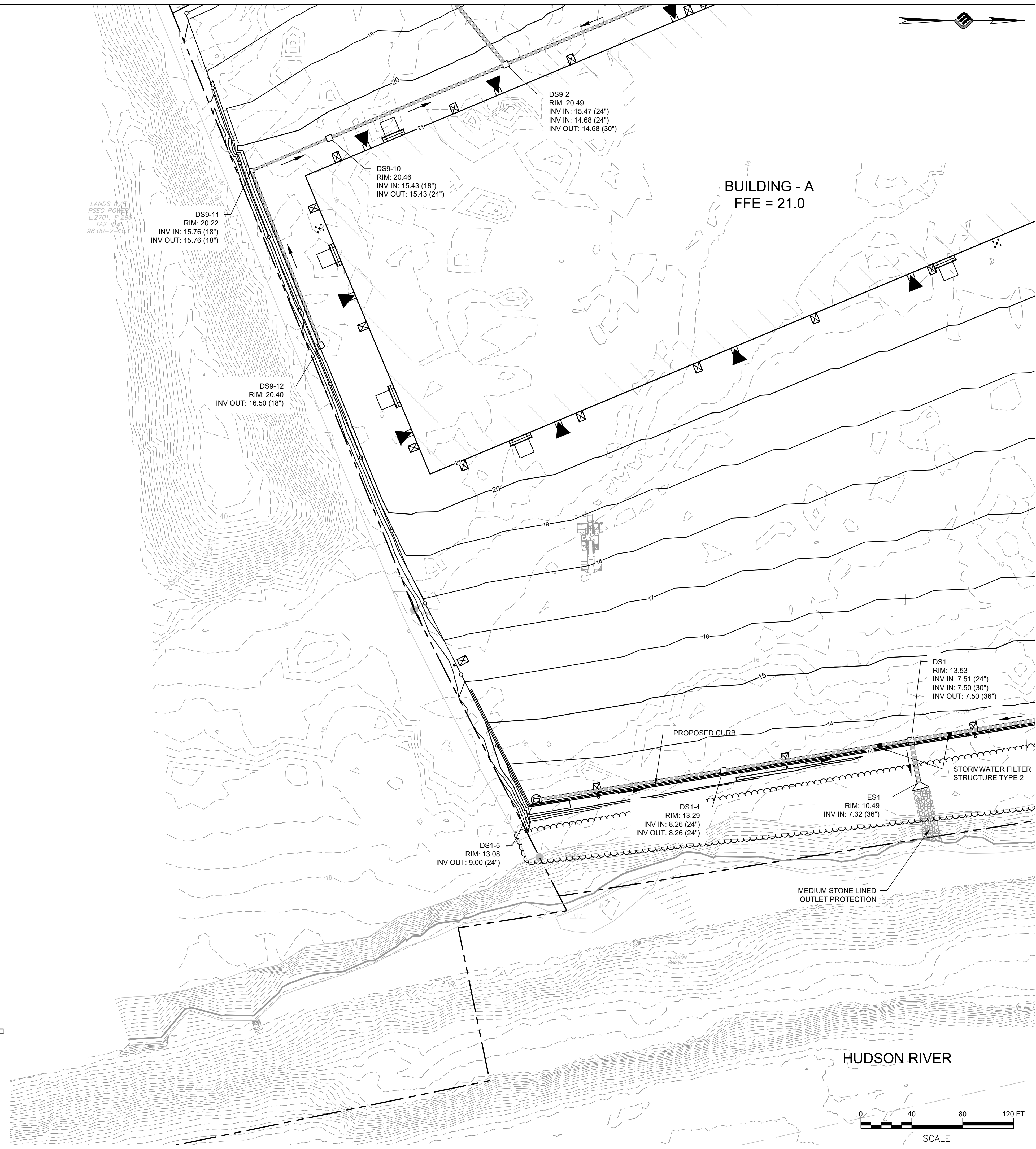
DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**GRADING & DRAINAGE**

DRAWING NUMBER  
**GR-04**

MATCH LINE SEE SHEET GR-01



LANDS WITH PSEG POWER TAX ID# 99.00-2-33

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	



N:\18641\04 ALBANY PORT DISTRICT COMMISSION\DRAWINGS\DR-04\GR-04.DWG



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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

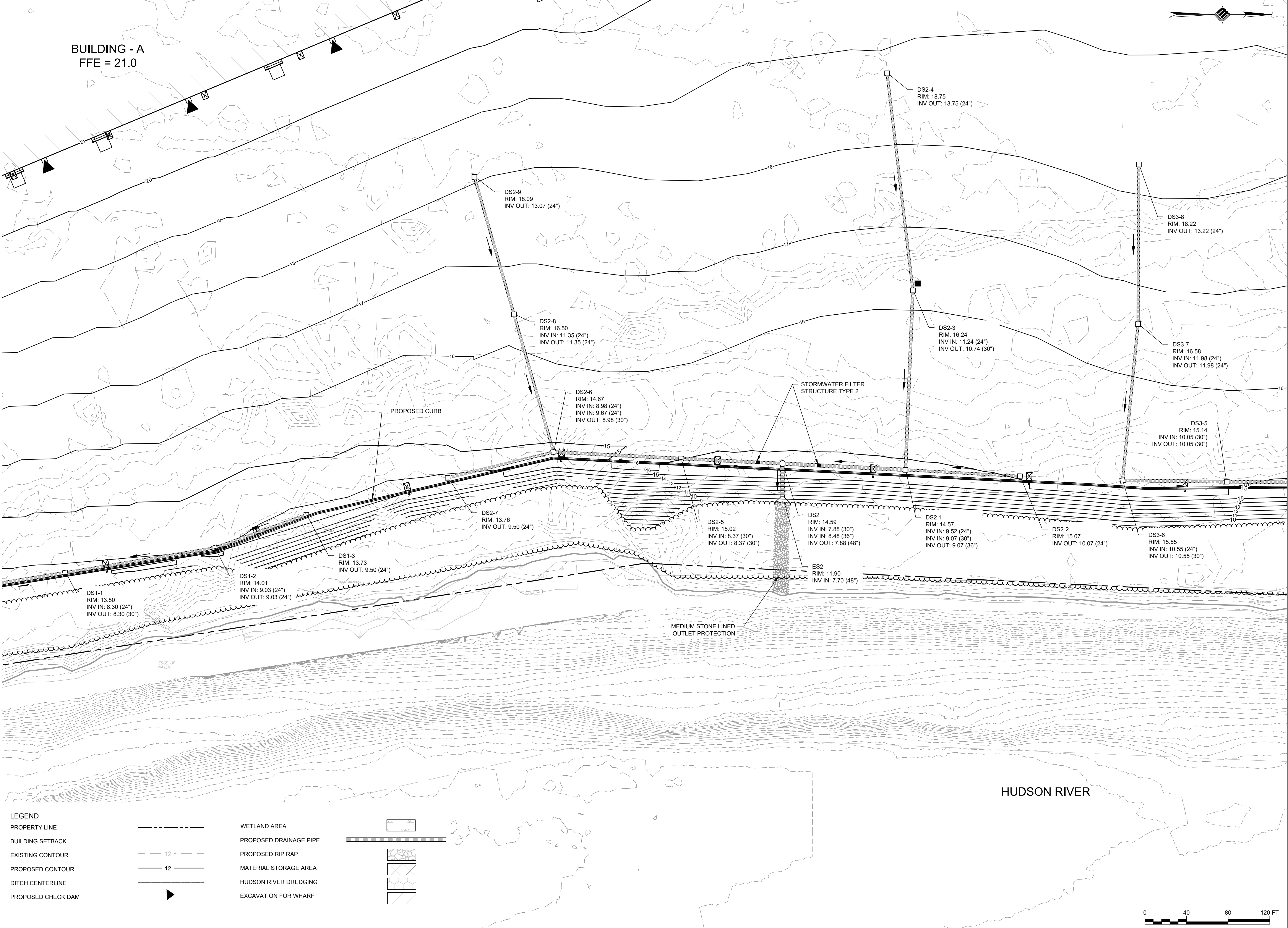
PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

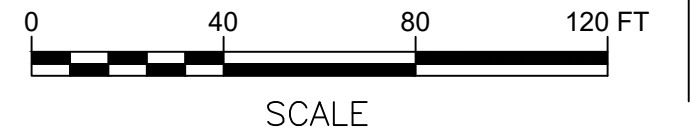
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DRAWING TITLE  
**GRADING & DRAINAGE**

DRAWING NUMBER  
**GR-05**



<b>LEGEND</b>			
PROPERTY LINE	---	WETLAND AREA	
BUILDING SETBACK	- - - -	PROPOSED DRAINAGE PIPE	
EXISTING CONTOUR	--- 12 ---	PROPOSED RIP RAP	
PROPOSED CONTOUR	--- 12 ---	MATERIAL STORAGE AREA	
DITCH CENTERLINE	--- ---	HUDSON RIVER DREDGING	
PROPOSED CHECK DAM	▶	EXCAVATION FOR WHARF	



MATCH LINE SEE SHEET GR-04

MATCH LINE SEE SHEET GR-06

N:\18641\_00 ALBANY PORT EXPANSION\DRAWINGS\DR-05 PRELIM\GR-05.DWG



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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

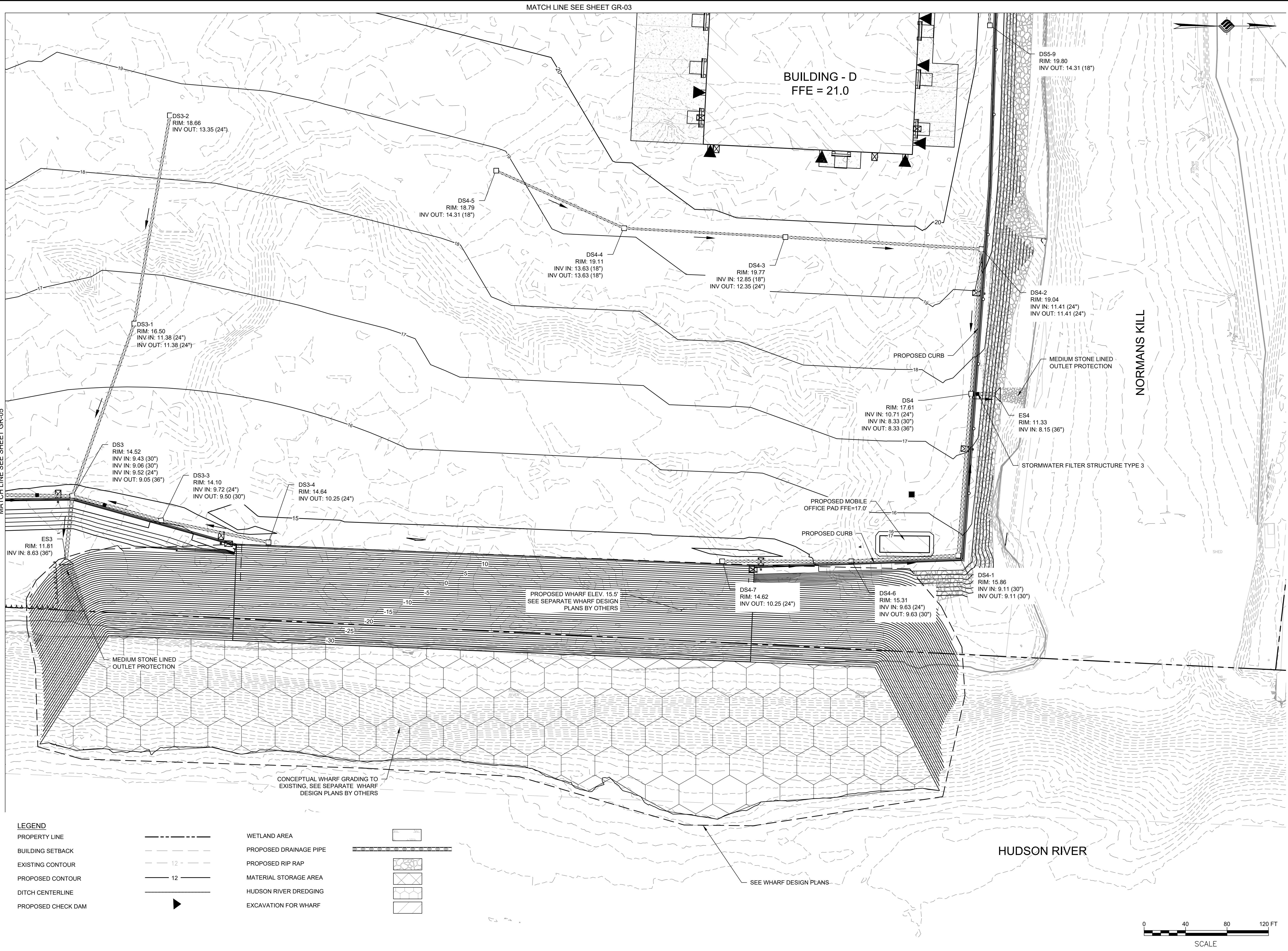
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 ALBANY, NEW YORK  
 PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

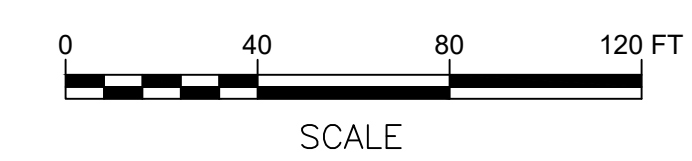
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DRAWING TITLE  
**GRADING & DRAINAGE**

DRAWING NUMBER  
**GR-06**



<b>LEGEND</b>		
PROPERTY LINE	---	WETLAND AREA
BUILDING SETBACK	---	PROPOSED DRAINAGE PIPE
EXISTING CONTOUR	- - - -	PROPOSED RIP RAP
PROPOSED CONTOUR	— — — —	MATERIAL STORAGE AREA
DITCH CENTERLINE	— — — —	HUDSON RIVER DREDGING
PROPOSED CHECK DAM	▶	EXCAVATION FOR WHARF



N:\18641\_00 ALBANY PORT EXPANSION\DRAWINGS\DR-06\GRADING\GR-06.DWG



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**PROJECT MILESTONE**  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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ALBANY, NEW YORK  
PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	N.T.S.
DATE	OCTOBER 2021
PROJECT	18641.00

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**DRAINAGE TABLES**

DRAWING NUMBER  
**GR-07**

PIPE TABLE CONT.							
NETWORK 6							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP6	36"	84.16'	0.50%	SICPP	DS6-1	ES6	
DP6-1	18"	161.51'	0.50%	SICPP	DS6-2	DS6-1	
DP6-2	18"	150.27'	0.50%	SICPP	DS6-3	DS6-2	
DP6-3	12"	149.77'	1.18%	SICPP	DS6-4	DS6-3	
DP6-4	12"	150.11'	0.50%	SICPP	DS6-5	DS6-4	
DP6-5	30"	71.08'	0.50%	SICPP	DS6-6	DS6-1	
DP6-6	30"	120.19'	0.50%	SICPP	DS6-7	DS6-6	
DP6-7	30"	135.97'	0.50%	SICPP	DS6-8	DS6-7	
DP6-8	30"	166.94'	0.50%	SICPP	DS6-9	DS6-8	
DP6-9	30"	48.35'	0.50%	SICPP	DS6-10	DS6-9	
DP6-10	30"	109.54'	0.50%	SICPP	DS6-11	DS6-10	
DP6-11	24"	129.50'	0.50%	SICPP	DS6-12	DS6-11	
DP6-12	24"	87.23'	0.50%	SICPP	DS6-13	DS6-12	
NETWORK 7							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP7-1	30"	60.45'	0.30%	SICPP	DS7-1	ES7	
DP7-2	30"	170.95'	0.50%	SICPP	DS7-2	DS7-1	
DP7-3	24"	224.34'	0.50%	SICPP	DS7-3	DS7-2	
DP7-4	24"	165.91'	0.50%	SICPP	DS7-4	DS7-3	
DP7-5	18"	122.86'	0.50%	SICPP	DS7-5	DS7-4	
DP7-6	24"	85.28'	0.50%	SICPP	DS7-6	DS7-1	
DP7-7	18"	57.09'	0.50%	SICPP	DS7-7	DS7-6	
DP7-8	18"	85.94'	0.50%	SICPP	DS7-8	DS7-7	
DP7-9	18"	138.21'	0.50%	SICPP	DS7-9	DS7-8	
DP7-10	18"	129.65'	0.67%	SICPP	DS7-10	DS7-1	
NETWORK 8							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP8	36"	108.80'	0.26%	SICPP	DS8A	ES8	
DP8-1	30"	24.59'	0.50%	SICPP	DS8-1	DS8	
DP8-2	30"	43.84'	0.50%	SICPP	DS8-2	DS8-1	
DP8-3	24"	42.33'	0.50%	SICPP	DS8-3	DS8-2	
DP8-4	24"	43.45'	0.50%	SICPP	DS8-4	DS8-3	
DP8-5	24"	84.60'	0.50%	SICPP	DS8-5	DS8-4	
DP8-6	24"	83.75'	0.50%	SICPP	DS8-6	DS8-5	
DP8-7	24"	83.67'	0.50%	SICPP	DS8-7	DS8-6	
DP8-8	12"	170.19'	0.50%	SICPP	DS8-8	DS8-7	
DP8-9	12"	163.23'	0.50%	SICPP	DS8-9	DS8-8	
DP8-10	18"	160.26'	0.50%	SICPP	DS8-10	DS8	
DP8-11	30"	119.07'	0.50%	SICPP	DS8	DS8A	
NETWORK 8A							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP8-11	24"	65.93'	0.50%	SICPP	DS8-11	ES8A	
DP8-12	24"	95.89'	0.50%	SICPP	DS8-12	DS8-11	
NETWORK 9							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP9	30"	84.38'	0.50%	SICPP	DS9	ES9	
DP9-1	12"	144.78'	0.31%	SICPP	DS9-1	DS9	
DP9-2	30"	157.84'	0.75%	SICPP	DS9-2	DS9	
DP9-3	24"	150.00'	0.50%	SICPP	DS9-3	DS9-2	
DP9-4	24"	150.00'	0.50%	SICPP	DS9-4	DS9-3	
DP9-10	24"	150.00'	0.50%	SICPP	DS9-10	DS9-2	
DP9-11	18"	66.24'	0.50%	SICPP	DS9-11	DS9-10	
DP9-12	18"	147.73'	0.50%	SICPP	DS9-12	DS9-11	
NETWORK 9A							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP9-5	36"	67.64'	0.42%	SICPP	DS9-5	ES9A	
DP9-6	30"	83.15'	0.50%	SICPP	DS9-6	DS9-5	
DP9-7	30"	149.58'	0.50%	SICPP	DS9-7	DS9-6	
DP9-8	24"	147.47'	0.51%	SICPP	DS9-8	DS9-7	
DP9-9	24"	68.41'	0.82%	SICPP	DS9-9	DS9-8	

STRUCTURE TABLE CONT.							
NETWORK 9A							
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING	
DS9-5	20.60	14.02	14.02	RECT. DRAINAGE INLET	1373285.39	689706.26	
DS9-6	20.33	14.44	14.44	RECT. DRAINAGE INLET	1373362.11	689674.20	
DS9-7	19.69	15.69	15.19	RECT. DRAINAGE INLET	1373500.13	689616.53	
DS9-8	20.44	16.44	16.44	RECT. DRAINAGE INLET	1373635.87	689558.88	
DS9-9	20.95		17.00	RECT. DRAINAGE INLET	1373664.53	689620.99	
ES9A	16.92	13.74		CMP Rectangular End Section	1373244.70	689652.23	

PIPE TABLE							
NETWORK 1							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP1	36"	33.89'	0.54%	SICPP	DS1	ES1	
DP1-1	30"	160.20'	0.50%	SICPP	DS1-1	DS1	
DP1-2	24"	145.78'	0.50%	SICPP	DS1-2	DS1-1	
DP1-3	24"	93.70'	0.50%	SICPP	DS1-3	DS1-2	
DP1-4	24"	149.38'	0.50%	SICPP	DS1-4	DS1	
DP1-5	24"	148.61'	0.50%	SICPP	DS1-5	DS1-4	
NETWORK 2							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP2	48"	31.98'	0.57%	SICPP	DS2	ES2	
DP2-1	36"	118.26'	0.50%	SICPP	DS2-1	DS2	
DP2-2	24"	110.23'	0.50%	SICPP	DS2-2	DS2-1	
DP2-3	30"	172.76'	0.97%	SICPP	DS2-3	DS2-1	
DP2-4	24"	210.39'	1.19%	SICPP	DS2-4	DS2-3	
DP2-5	30"	97.76'	0.50%	SICPP	DS2-5	DS2	
DP2-6	30"	122.84'	0.50%	SICPP	DS2-6	DS2-5	
DP2-7	24"	104.90'	0.50%	SICPP	DS2-7	DS2-6	
DP2-8	24"	137.83'	1.22%	SICPP	DS2-8	DS2-6	
DP2-9	24"	137.57'	1.25%	SICPP	DS2-9	DS2-8	
NETWORK 3							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP3	36"	61.42'	0.68%	SICPP	DS3	ES3	
DP3-1	24"	176.82'	1.05%	SICPP	DS3-1	DS3	
DP3-2	24"	203.91'	0.97%	SICPP	DS3-2	DS3-1	
DP3-3	30"	88.96'	0.50%	SICPP	DS3-3	DS3	
DP3-4	24"	105.76'	0.50%	SICPP	DS3-4	DS3-3	
DP3-5	30"	123.02'	0.50%	SICPP	DS3-5	DS3	
DP3-6	30"	100.27'	0.50%	SICPP	DS3-6	DS3-5	
DP3-7	24"	151.15'	0.95%	SICPP	DS3-7	DS3-6	
DP3-8	24"	153.55'	0.81%	SICPP	DS3-8	DS3-7	
NETWORK 4							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP4	36"	22.98'	0.78%	SICPP	DS4	ES4	
DP4-1	30"	156.71'	0.50%	SICPP	DS4-1	DS4	
DP4-2	24"	139.94'	0.50%	SICPP	DS4-2	DS4	
DP4-3	24"	189.54'	0.50%	SICPP	DS4-3	DS4-2	
DP4-4	18"	155.90'	0.50%	SICPP	DS4-4	DS4-3	
DP4-5	18"	135.37'	0.50%	SICPP	DS4-5	DS4-4	
DP4-6	30"	103.33'	0.50%	SICPP	DS4-6	DS4-1	
DP4-7	24"	124.75'	0.50%	SICPP	DS4-7	DS4-6	
NETWORK 5							
NAME	SIZE	LENGTH	SLOPE	MATERIAL	FROM STRC	TO STRC	
DP5	36"	50.99'	0.39%	SICPP	DS5	ES5	
DP5-1	36"	93.61'	0.50%	SICPP	DS5-1	DS5	
DP5-2	30"	98.75'	0.52%	SICPP	DS5-2	DS5-1	
DP5-3	30"	120.86'	0.48%	SICPP	DS5-3	DS5-2	
DP5-4	30"	85.30'	0.50%	SICPP	DS5-4	DS5-3	
DP5-5	30"	243.62'	0.50%	SICPP	DS5-5	DS5-4	
DP5-6	24"	201.79'	0.50%	SICPP	DS5-6	DS5-5	
DP5-7	24"	168.06'	0.50%	SICPP	DS5-7	DS5-6	
DP5-8	24"	106.97'	0.50%	SICPP	DS5-8	DS5-4	
DP5-9	18"	142.51'	0.50%	SICPP	DS5-9	DS5	

STRUCTURE TABLE CONT.							
NETWORK 6							
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING	
DS6-1	19.55	11.92 12.34	11.92	RECT. DRAINAGE INLET	1375599.17	689567.21	
DS6-2	20.50	12.73	12.73	RECT. DRAINAGE INLET	1375438.05	689556.03	
DS6-3	20.50	13.98	13.48	RECT. DRAINAGE INLET	1375287.96	689548.63	
DS6-4	20.50	15.75	15.75	RECT. DRAINAGE INLET	1375138.37	689541.25	
DS6-5	20.50		16.50	RECT. DRAINAGE INLET	1374988.45	689533.87	
DS6-6	19.34	12.70	12.70	RECT. DRAINAGE INLET	1375643.33	689511.51	
DS6-7	20.11	13.30	13.30	RECT. DRAINAGE INLET	1375642.95	689391.32	
DS6-8	20.86	13.98	13.98	RECT. DRAINAGE INLET	1375511.21	689357.67	
DS6-9	20.94	14.81	14.81	RECT. DRAINAGE INLET	1375347.89	689323.09	
DS6-10	20.93	15.05	15.05	RECT. DRAINAGE INLET	1375299.74	689318.81	
DS6-11	20.90	15.60	15.60	RECT. DRAINAGE INLET	1375190.39	689312.29	
DS6-12	20.92	16.31	16.25	RECT. DRAINAGE INLET	1375061.02	689306.74	
DS6-13	20.87		16.75	RECT. DRAINAGE INLET	1374973.87	689302.89	
ES6	14.68	11.50		CMP Rectangular End Section	1375679.56	689592.15	

STRUCTURE TABLE CONT.							
NETWORK 7							
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING	
DS7-1	20.50	11.89 15.13 13.75	11.89	RECT. DRAINAGE INLET	1374742.73	689310.29	
DS7-2	20.50	12.74	12.74	RECT. DRAINAGE INLET	1374571.78	689311.10	
DS7-3	20.57	13.87	13.87	RECT. DRAINAGE INLET	1374347.54	689317.79	
DS7-4	20.97	15.20	14.70	RECT. DRAINAGE INLET	1374389.86	689478.22	
DS7-5	20.50		15.81	RECT. DRAINAGE INLET	1374435.02	689592.48	
DS7-6	20.50	14.67	14.17	RECT. DRAINAGE INLET	1374746.87	689395.47	
DS7-7	20.50	14.96	14.96	RECT. DRAINAGE INLET	1374744.43	689452.51	
DS7-8	20.50	15.39	15.39	RECT. DRAINAGE INLET	1374740.71	689538.37	
DS7-9	20.50		16.08	RECT. DRAINAGE INLET	1374602.76	689529.78	
DS7-10	20.54		16.00	RECT. DRAINAGE INLET	1374872.04	689319.75	
ES7	14.89	11.71		CMP Rectangular End Section	1374743.63	689249.84	

STRUCTURE TABLE CONT.							
NETWORK 8							
STRUCTURE	RIM	INV(S) IN	INV OUT	TYPE	NORTHING	EASTING	
DS8	20.40	12.80 14.00	12.80	RECT. DRAINAGE INLET	1373890.52	689466.77	
DS8-1	20.50	12.92	12.92	RECT. DRAINAGE INLET	1373900.43	689489.27	
DS8-2	20.50	13.14	13.14	RECT. DRAINAGE INLET	1373916.96	689529.88	
DS8-3	20.50	13.35	13.35	RECT. DRAINAGE INLET	1373933.50	689568.85	
DS8-4	20.50	13.57	13.57	RECT. DRAINAGE INLET	1373950.23	689608.94	
DS8-5	20.50	13.99	13.99	RECT. DRAINAGE INLET	1373982.78	689687.04	
DS8-6</							



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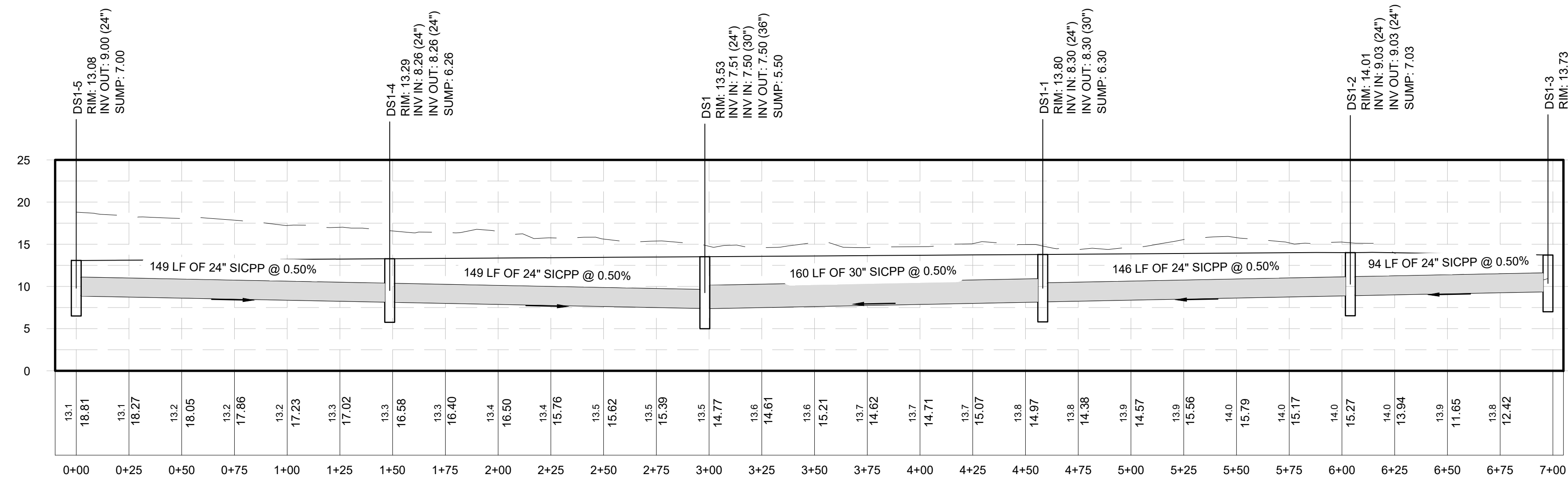
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**PRELIMINARY PLANS**

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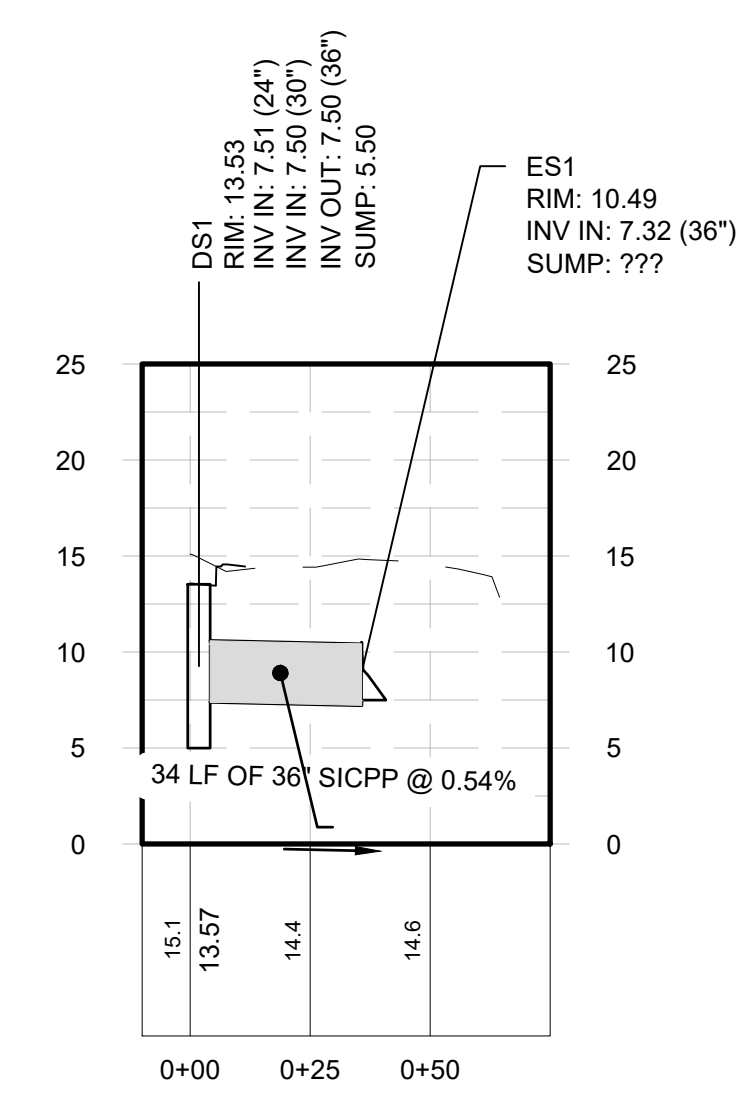
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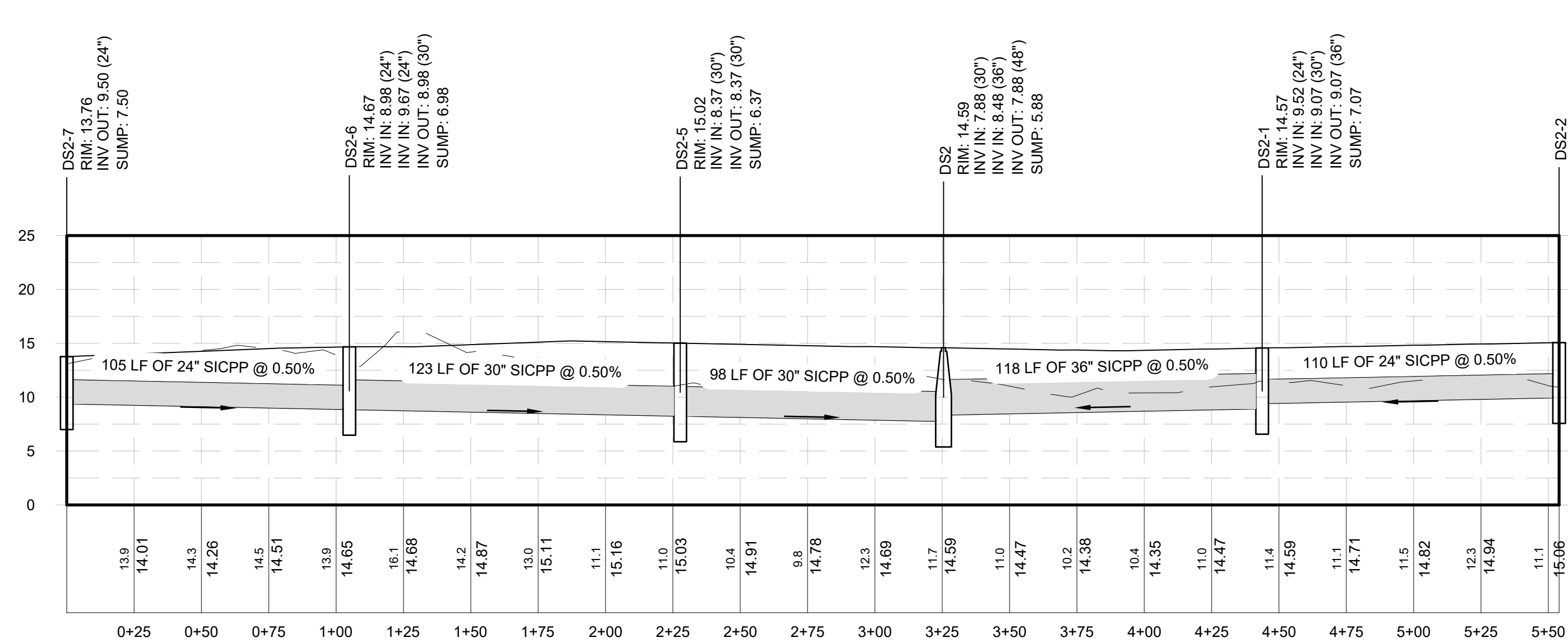
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**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**



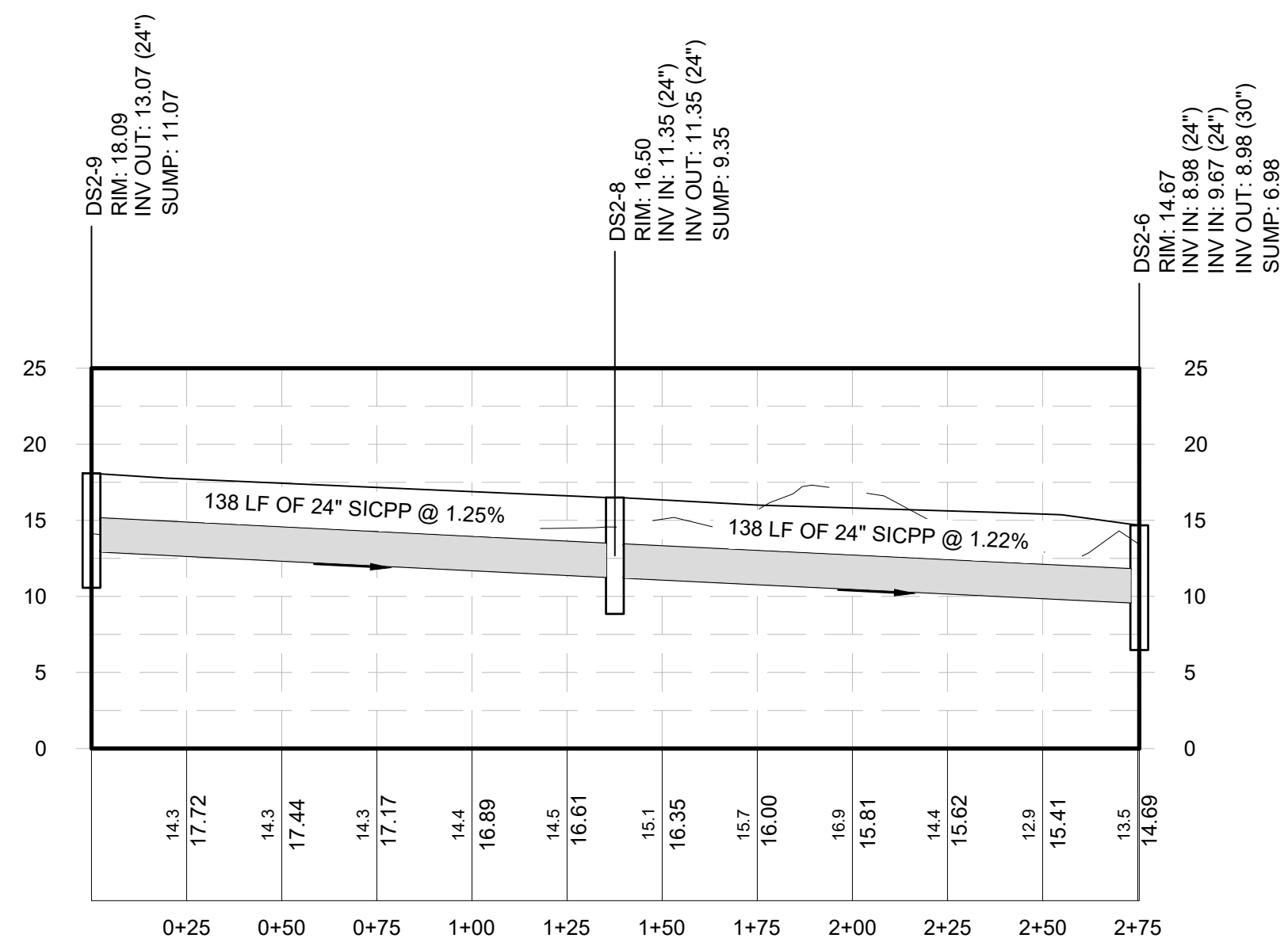
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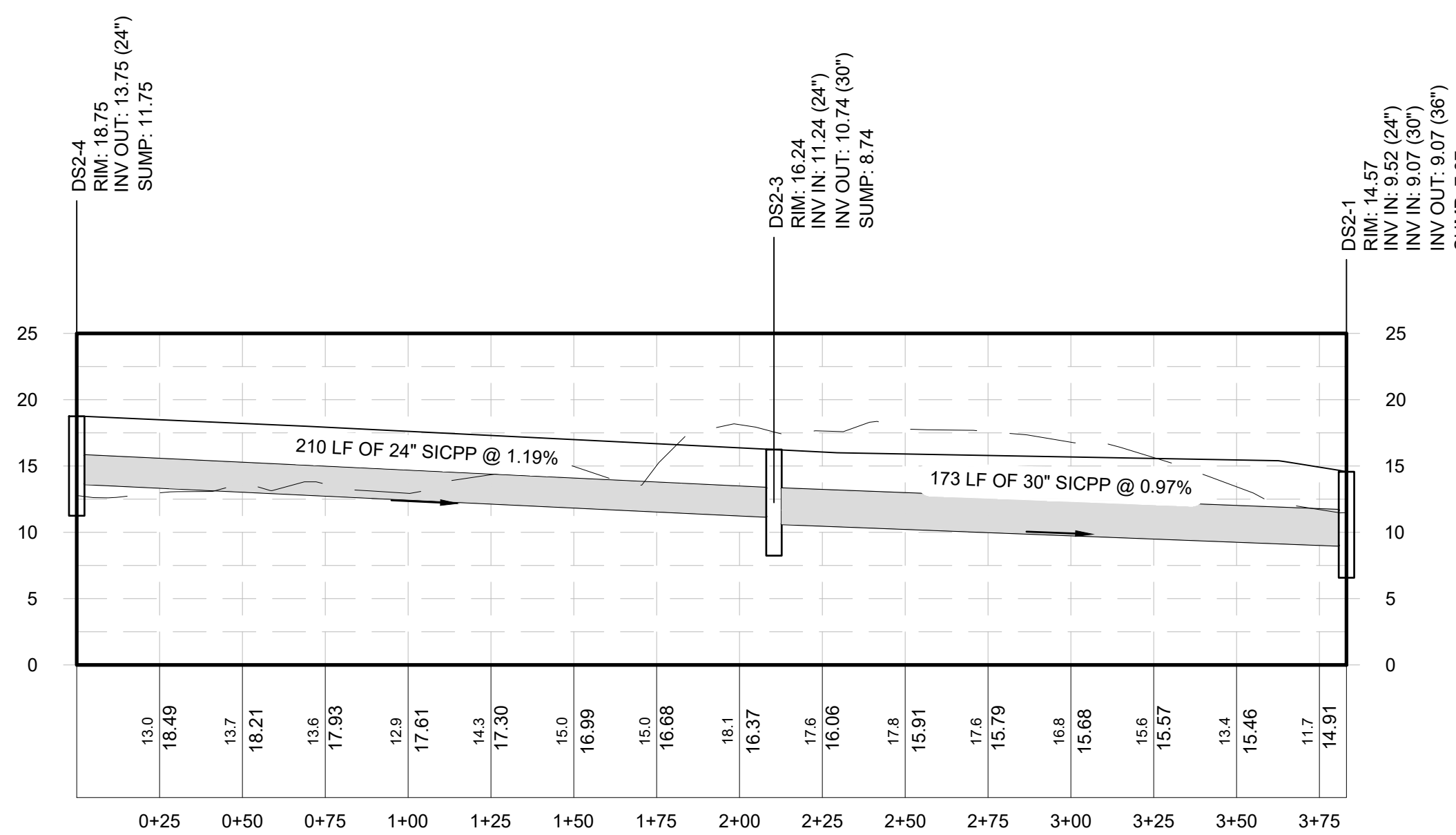
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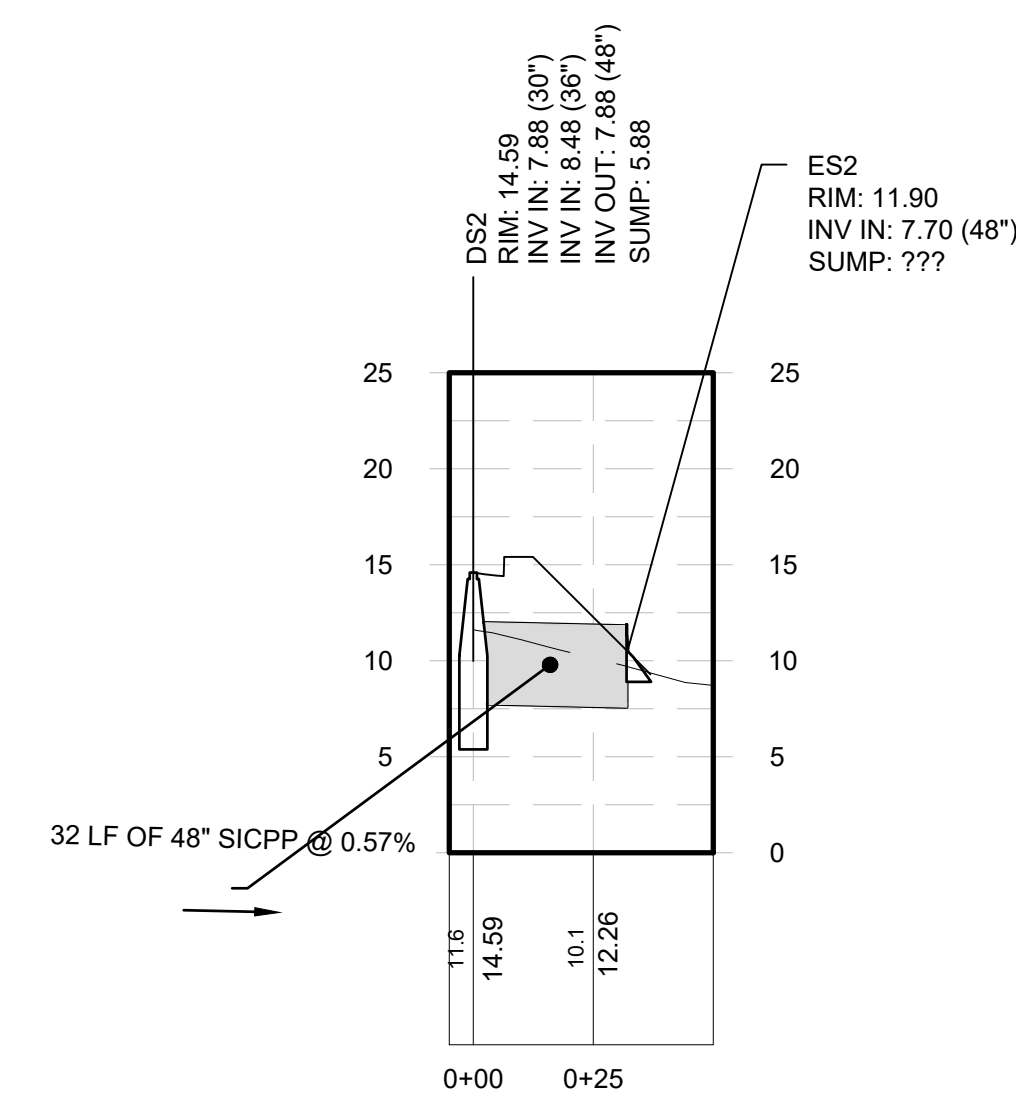
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 Horizontal Scale: 1" = 40'  
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**NETWORK 2 (2 OF 4)**  
 Horizontal Scale: 1" = 40'  
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**NETWORK 2 (3 OF 4)**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



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



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 DESIGNED NSO  
 CHECKED AJF  
 SCALE 1"=40'  
 DATE OCTOBER 2021  
 PROJECT 18641.00

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**DRAINAGE PROFILES**

DRAWING NUMBER  
**GR-08**





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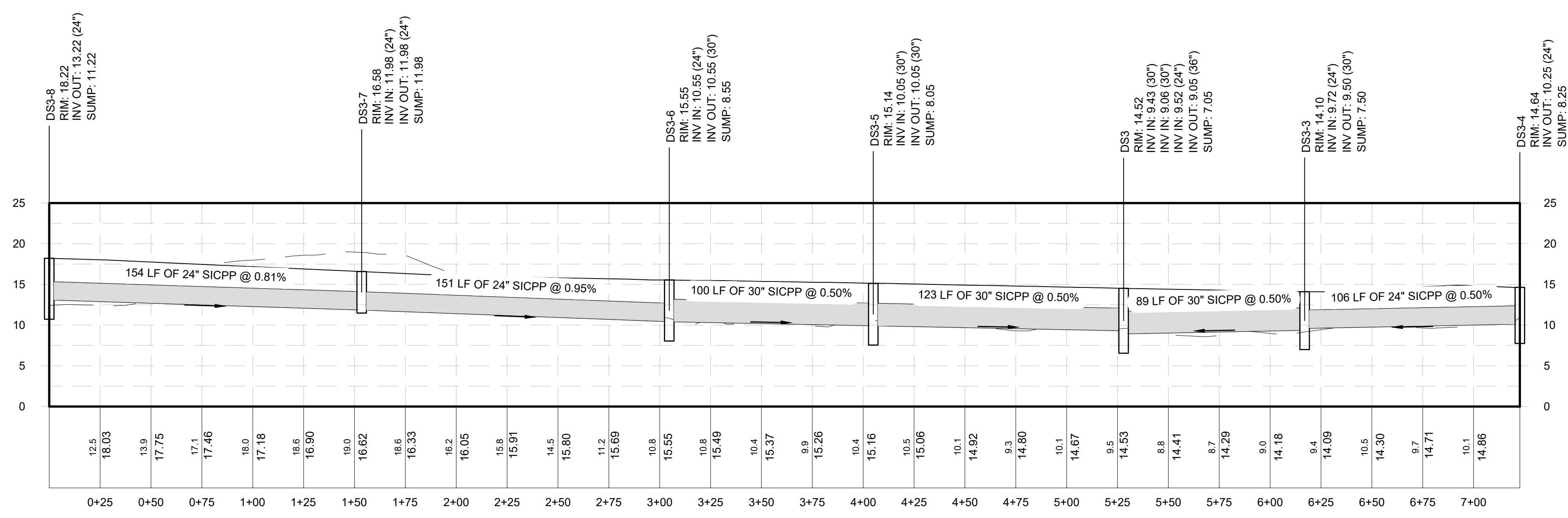
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 ALBANY, NEW YORK  
 PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

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CHECKED	AJF
SCALE	N.T.S.
DATE	OCTOBER 2021
PROJECT	18641.00

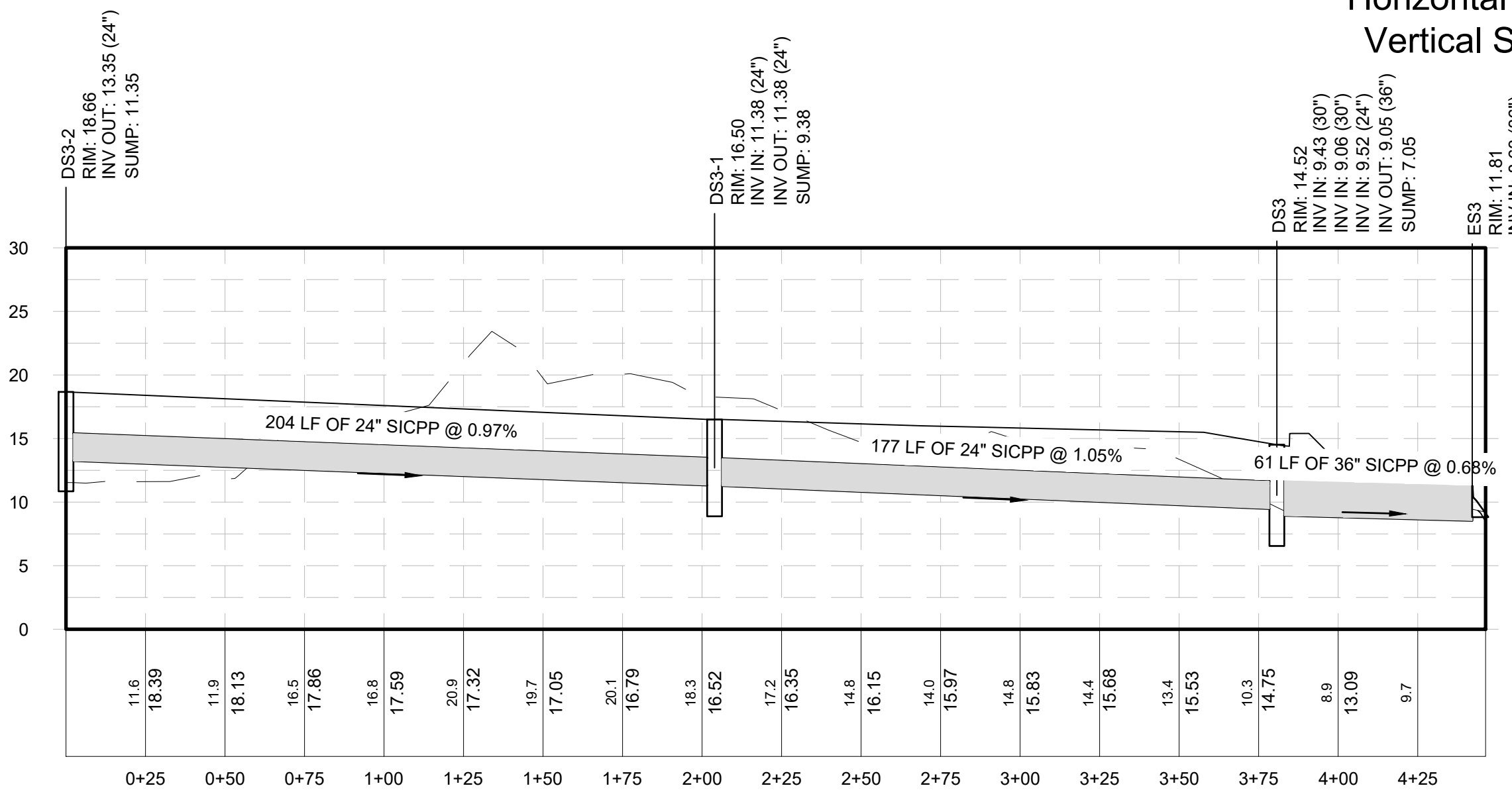
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**DRAINAGE TABLES**

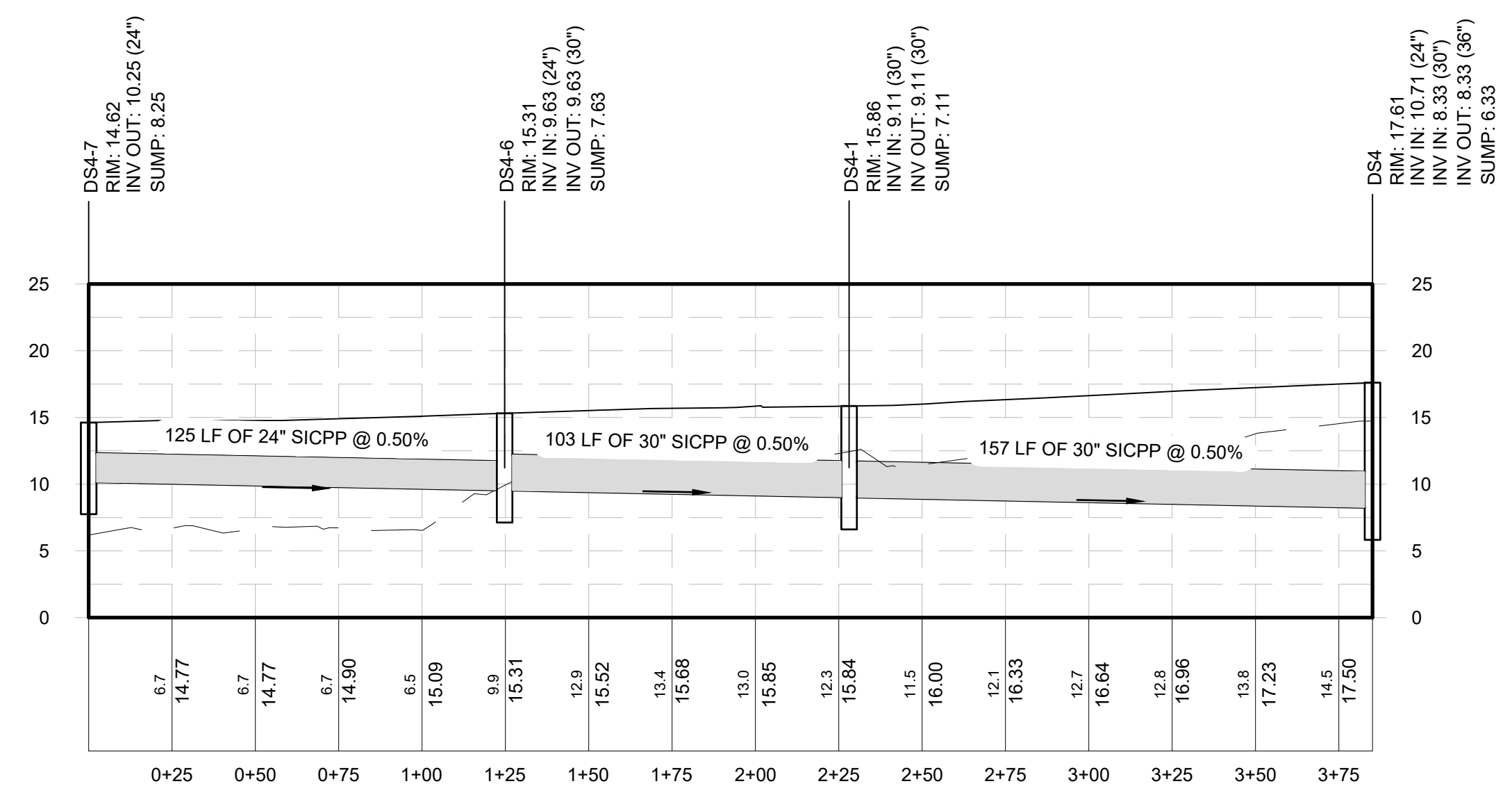
DRAWING NUMBER  
**GR-07**  
 22 OF 53



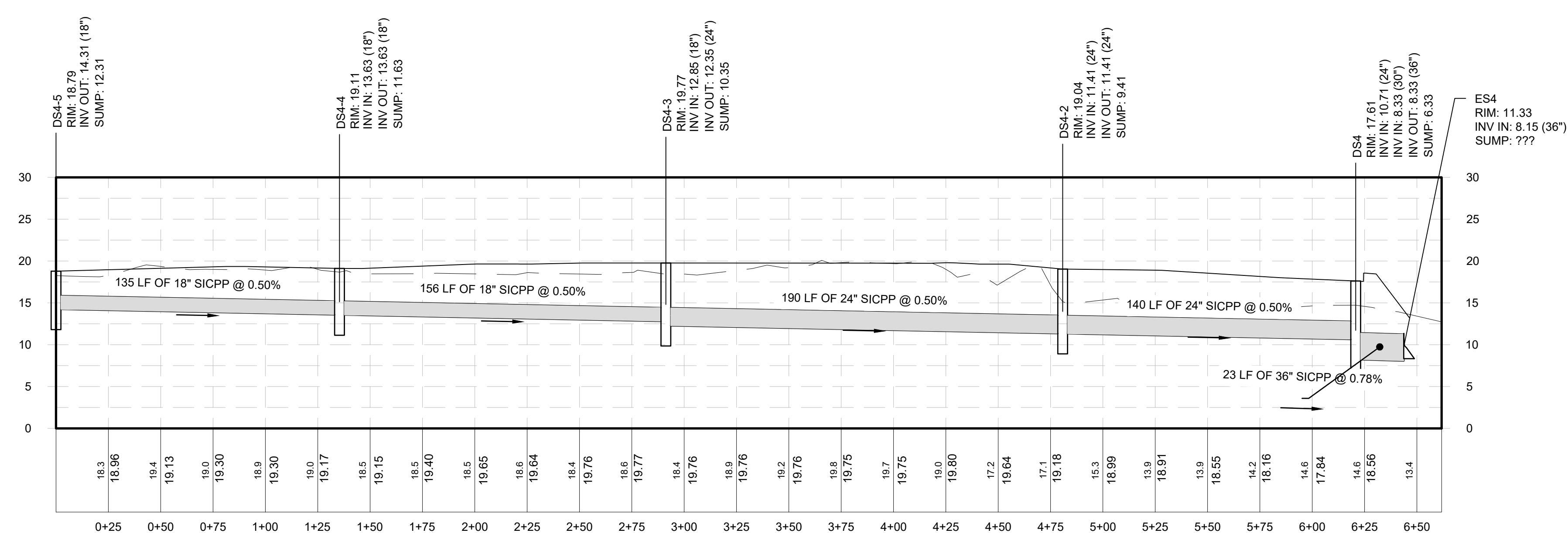
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 Horizontal Scale: 1" = 40'  
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**NETWORK 3 (2 OF 2)**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



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



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





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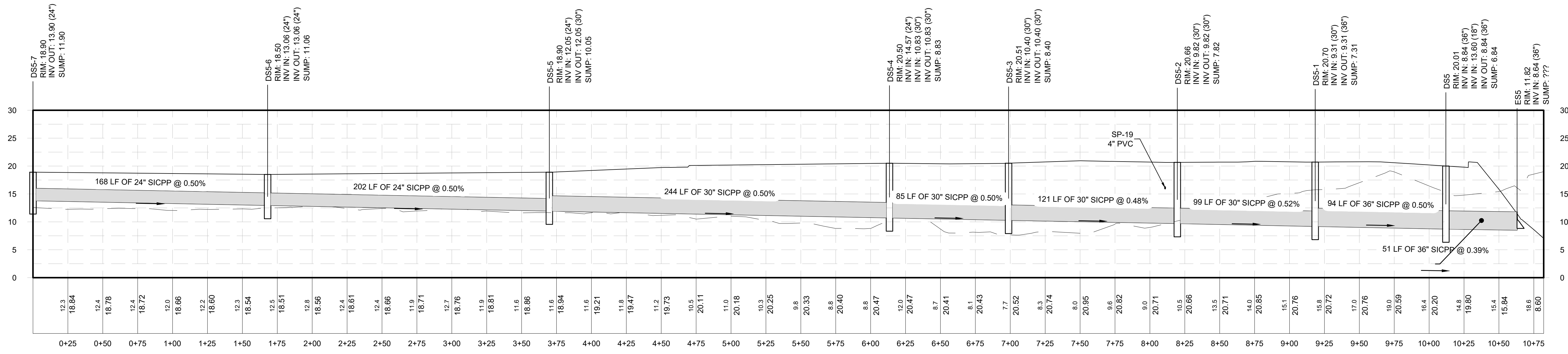
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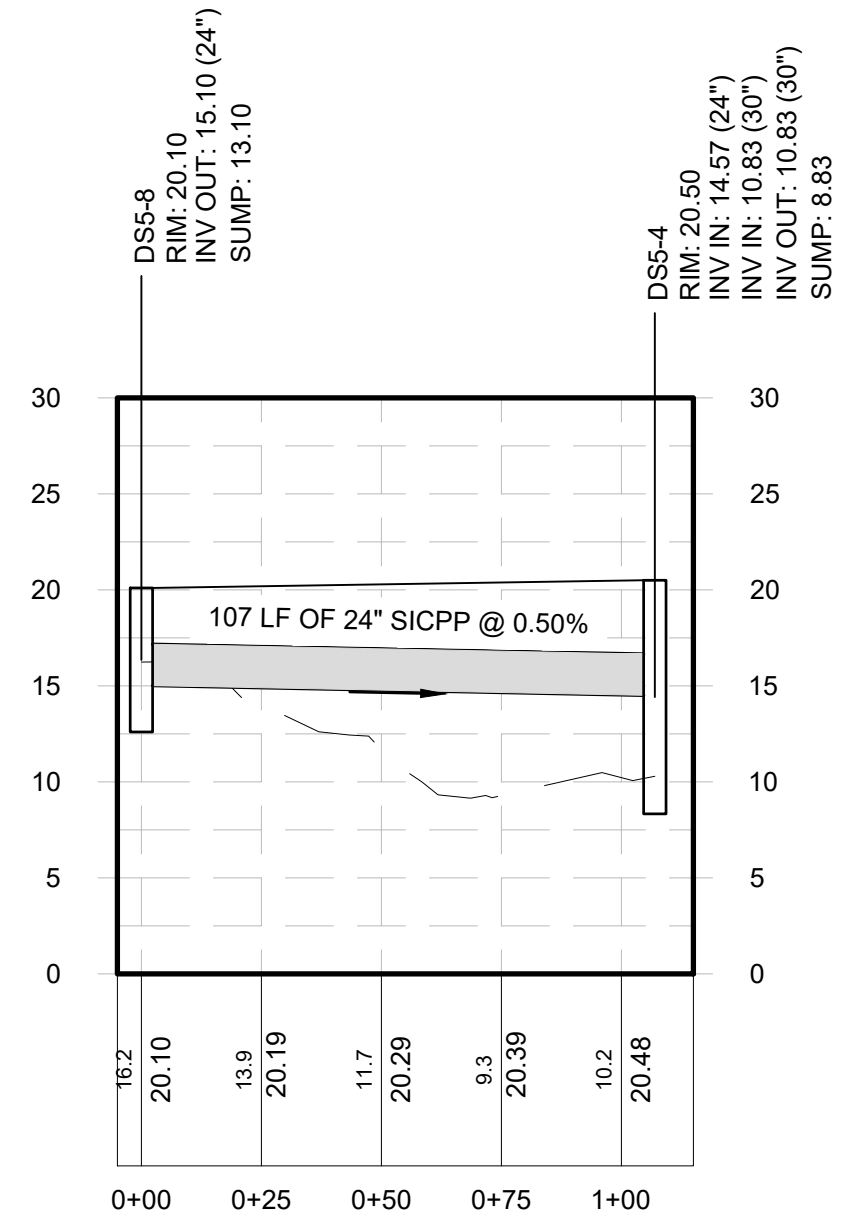
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**DRAINAGE PROFILES**

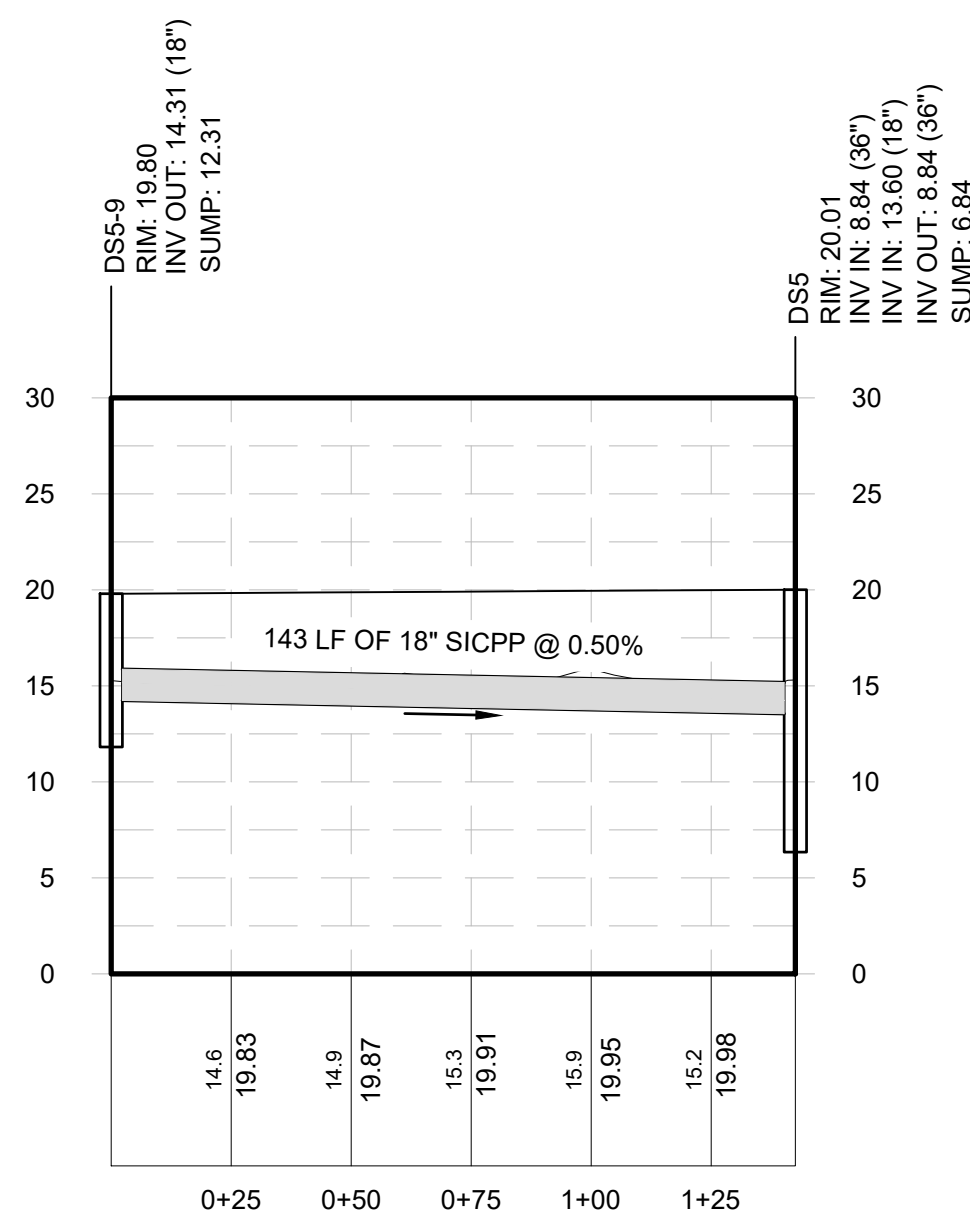
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**GR-08**



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



**Network 5A**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



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



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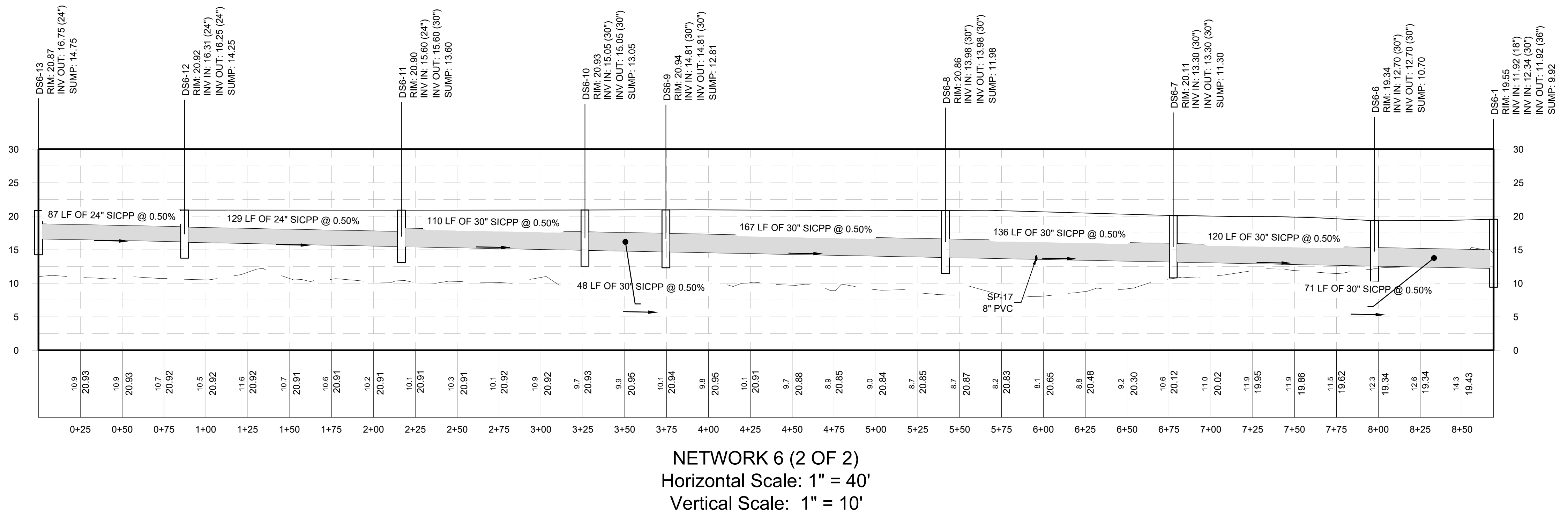
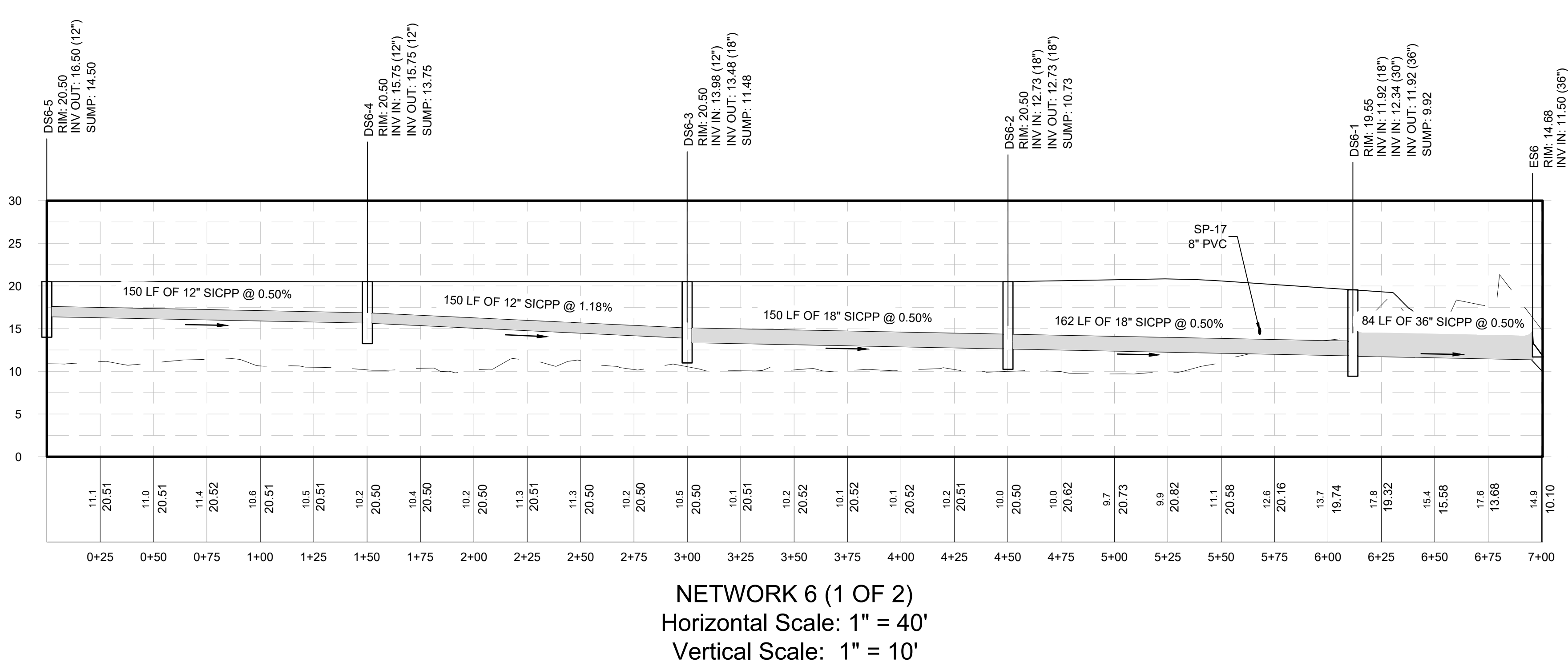
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DRAWING TITLE  
**DRAINAGE PROFILES**

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PROJECT	18641.00

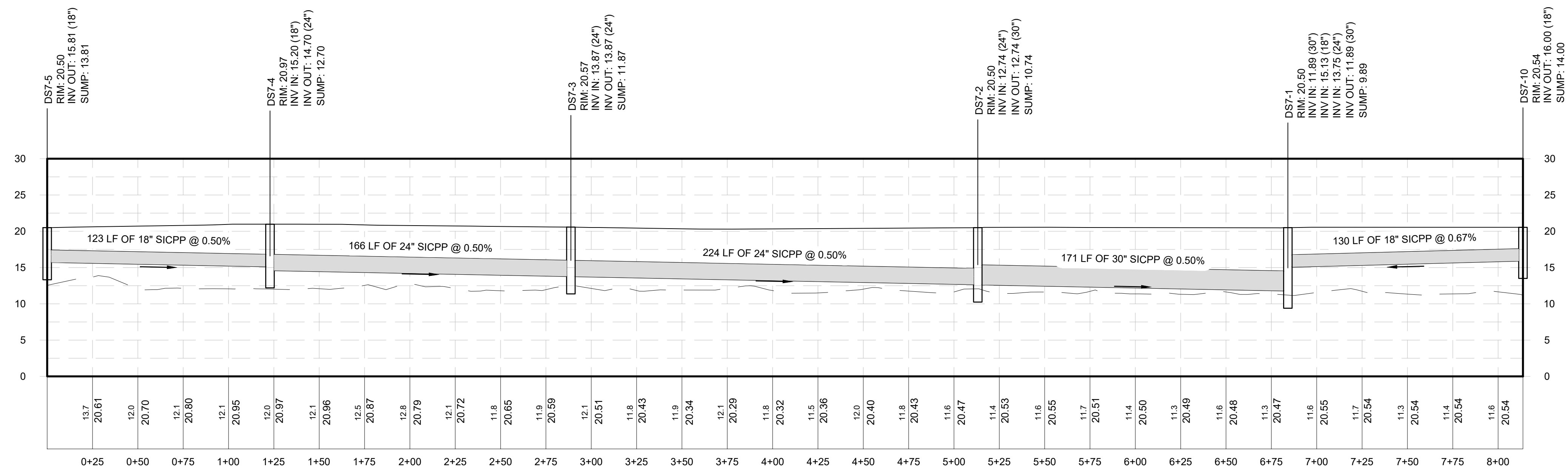
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**DRAINAGE PROFILES**

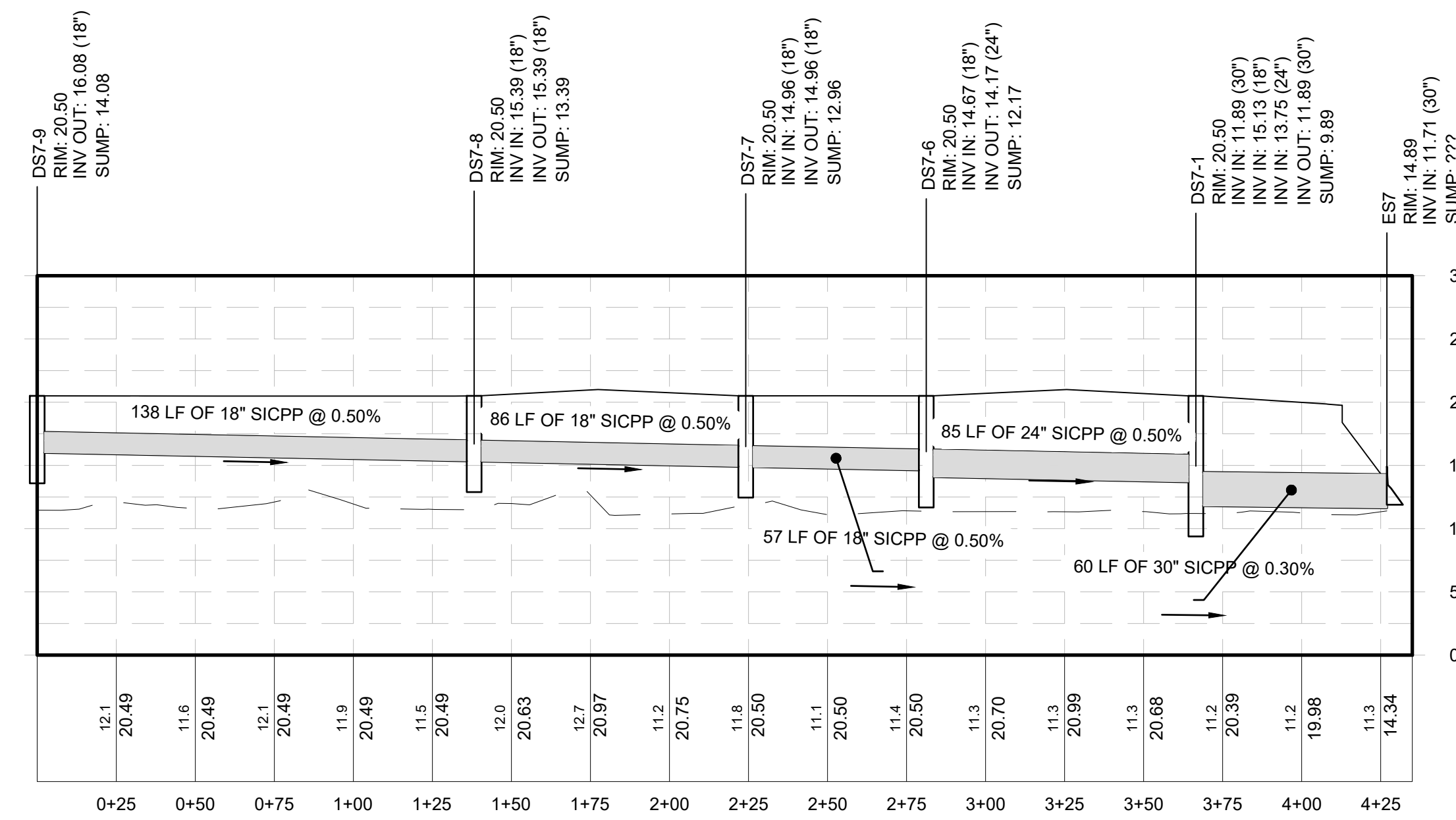
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GR-12

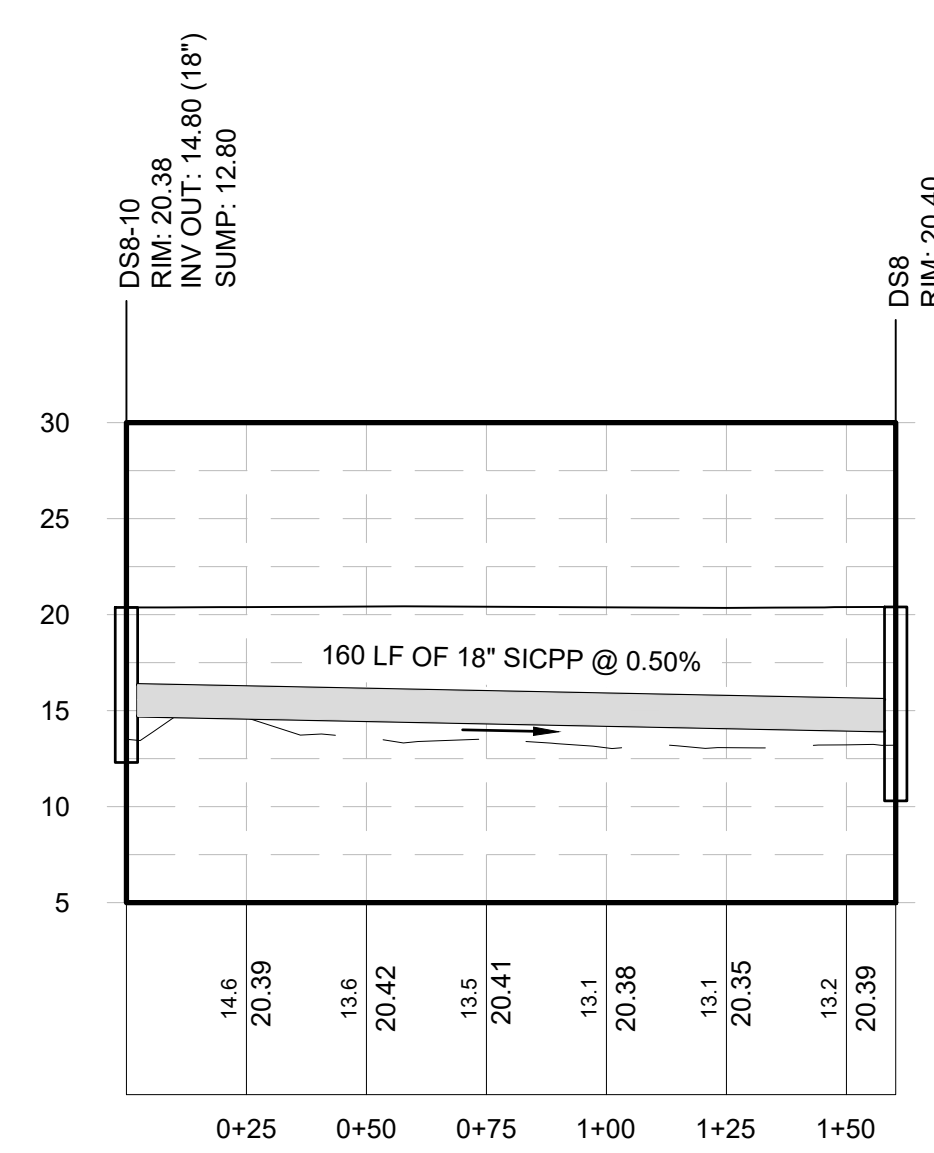
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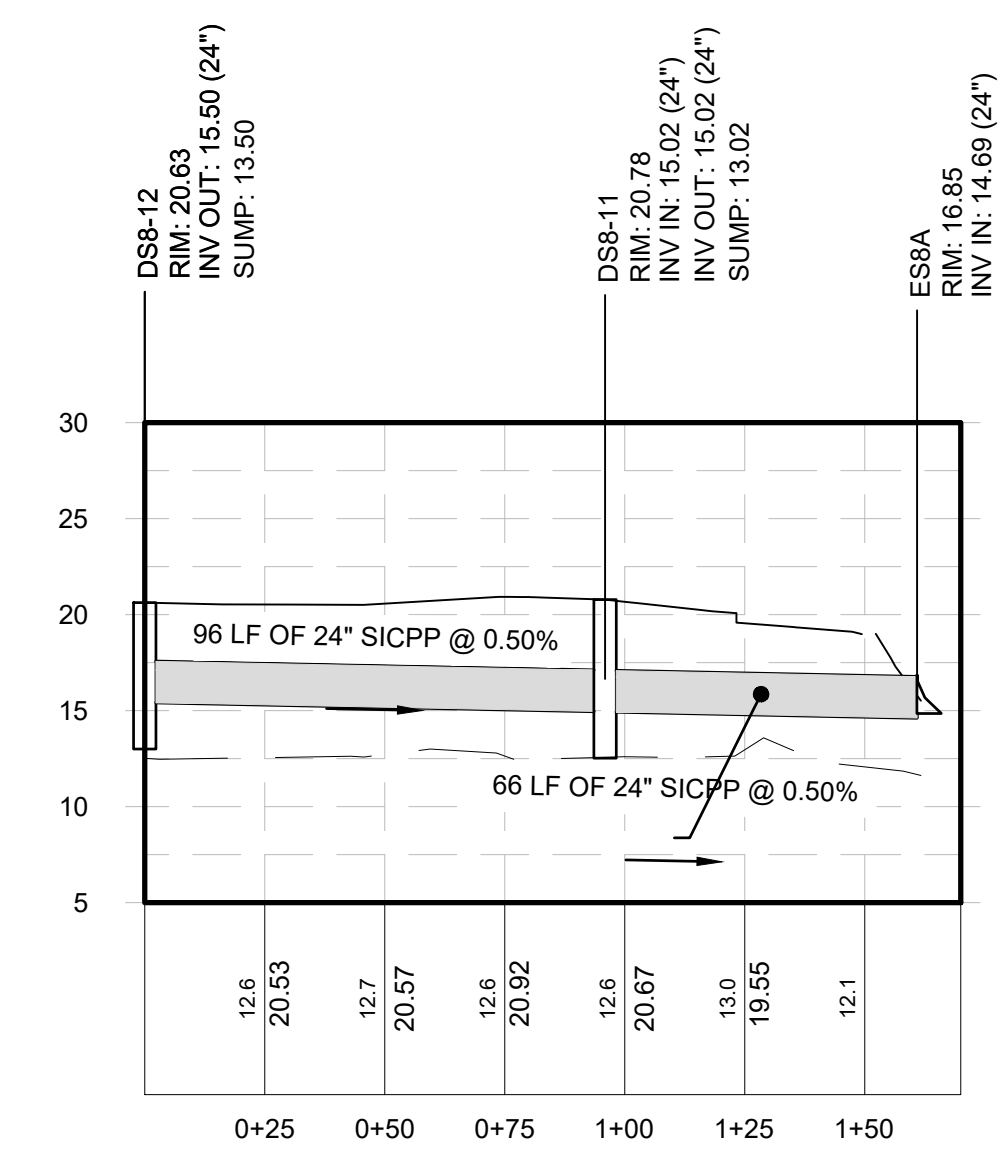
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Vertical Scale: 1" = 10'



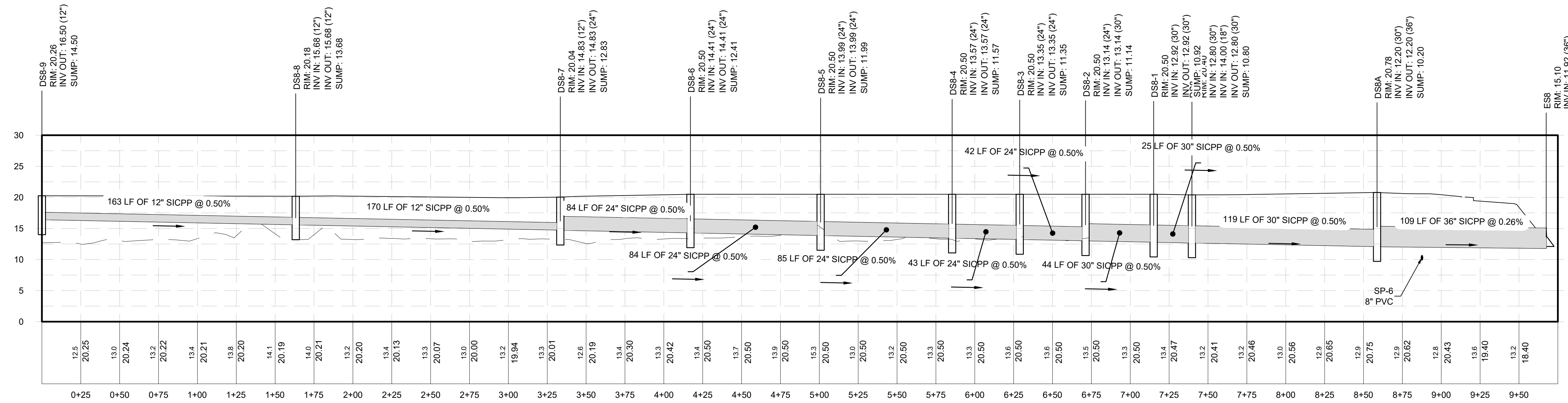
**NETWORK 7 (2 OF 2)**  
Horizontal Scale: 1" = 40'  
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**NETWORK 8 (1 OF 2)**  
Horizontal Scale: 1" = 40'  
Vertical Scale: 1" = 10'



**NETWORK 8A**  
Horizontal Scale: 1" = 40'  
Vertical Scale: 1" = 10'



**NETWORK 8 (3 OF 3)**  
Horizontal Scale: 1" = 40'  
Vertical Scale: 1" = 10'

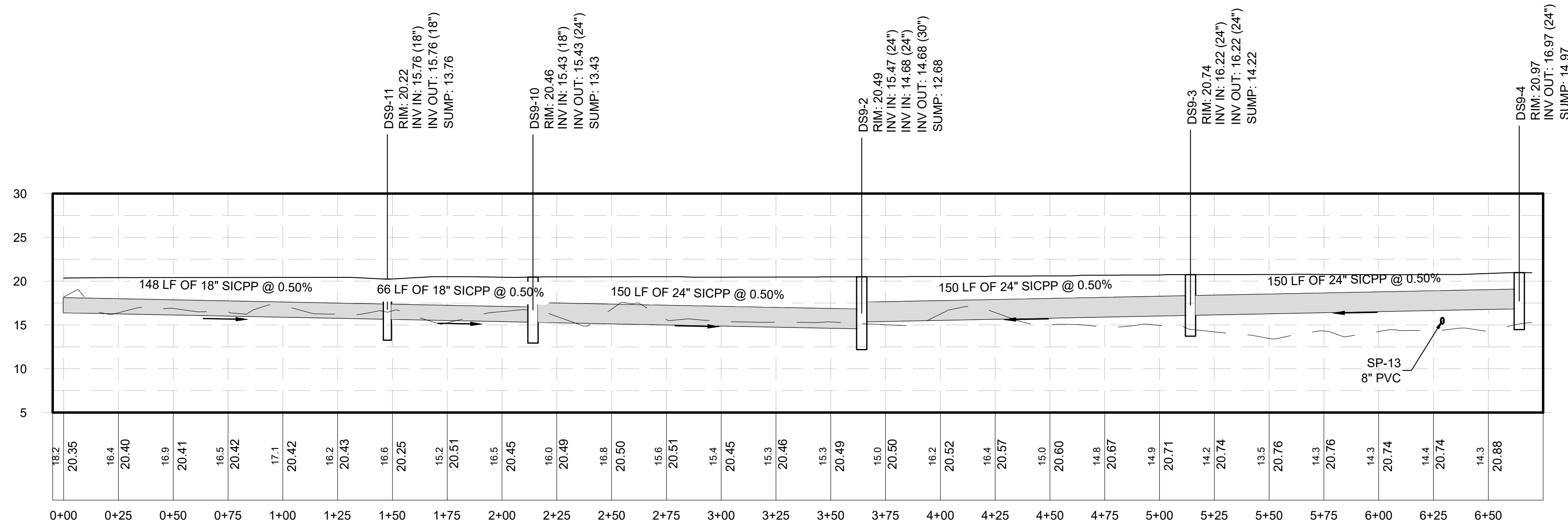


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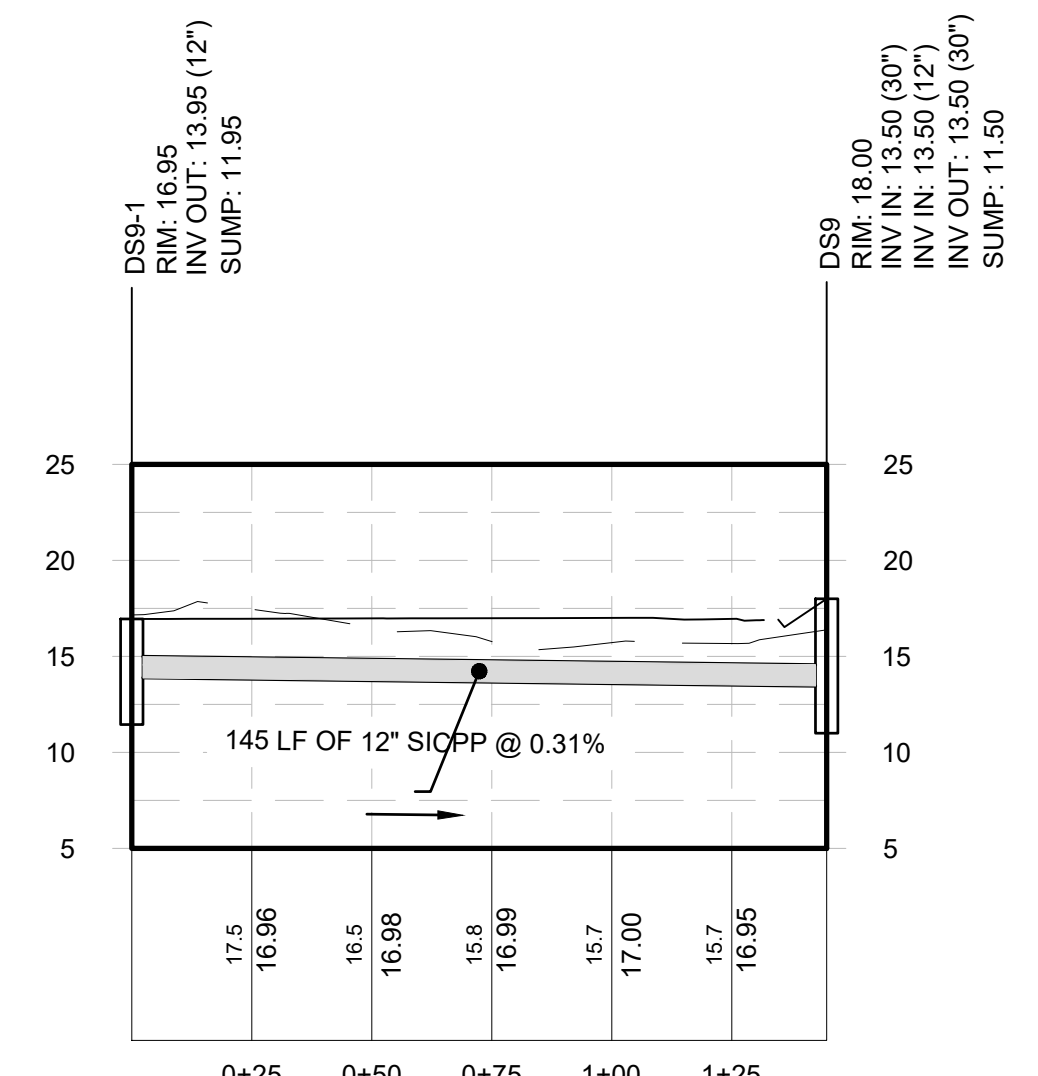


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**PRELIMINARY PLANS**

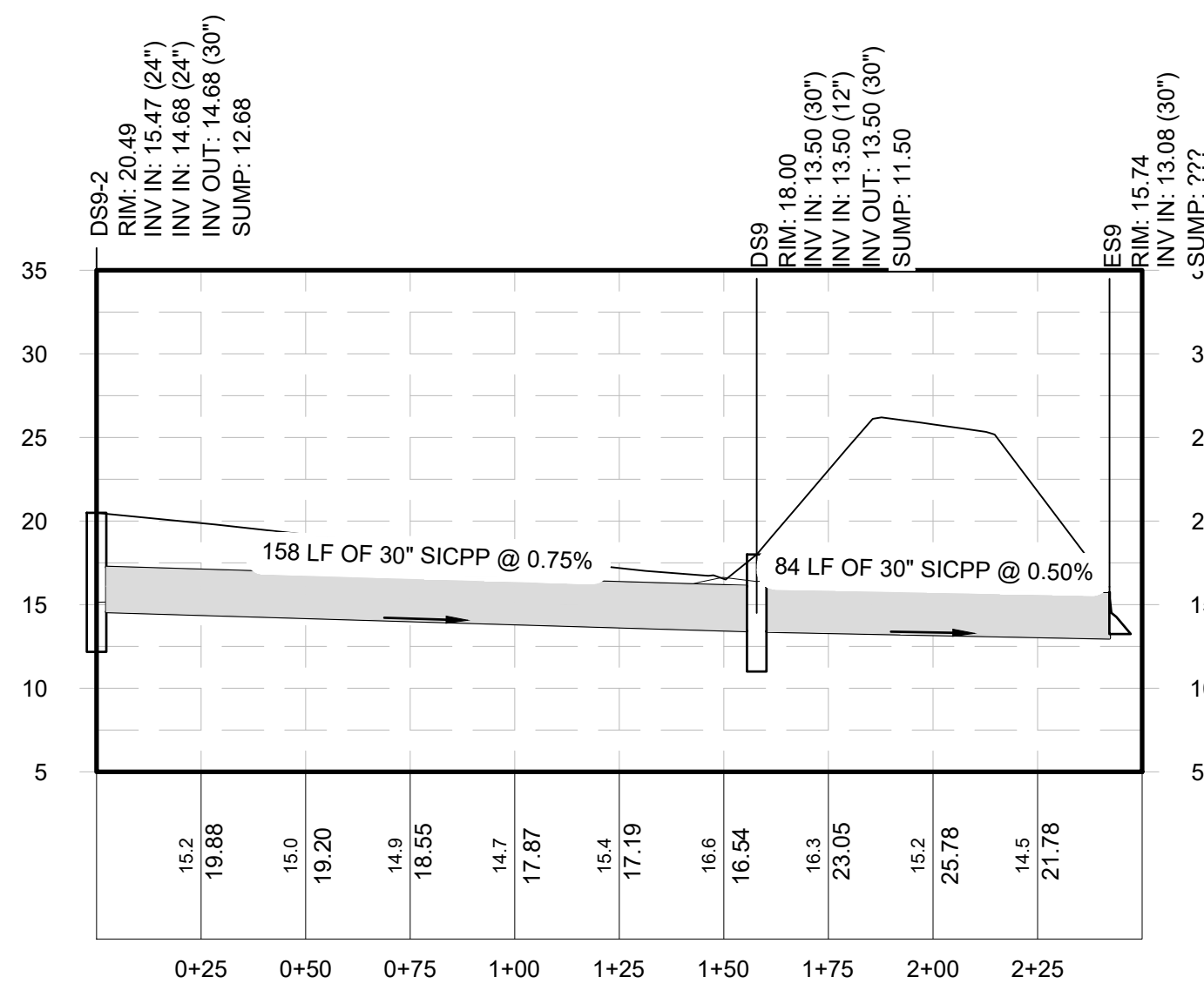
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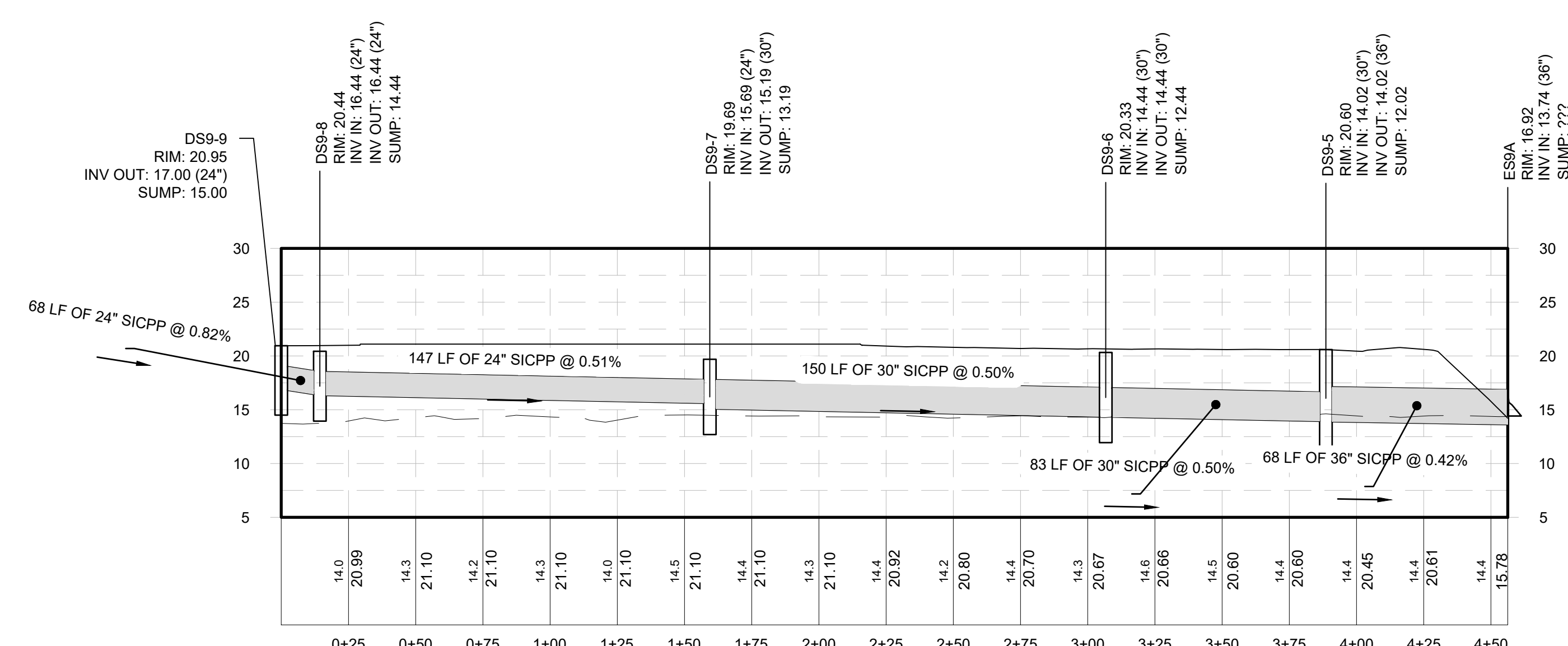
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 Horizontal Scale: 1" = 40'  
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**NETWORK 9 (2 OF 3)**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



**NETWORK 9 (3 OF 3)**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



**NETWORK 9A**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'

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DRAWING TITLE  
**DRAINAGE PROFILES**

DRAWING NUMBER

**GR-13**





**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  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

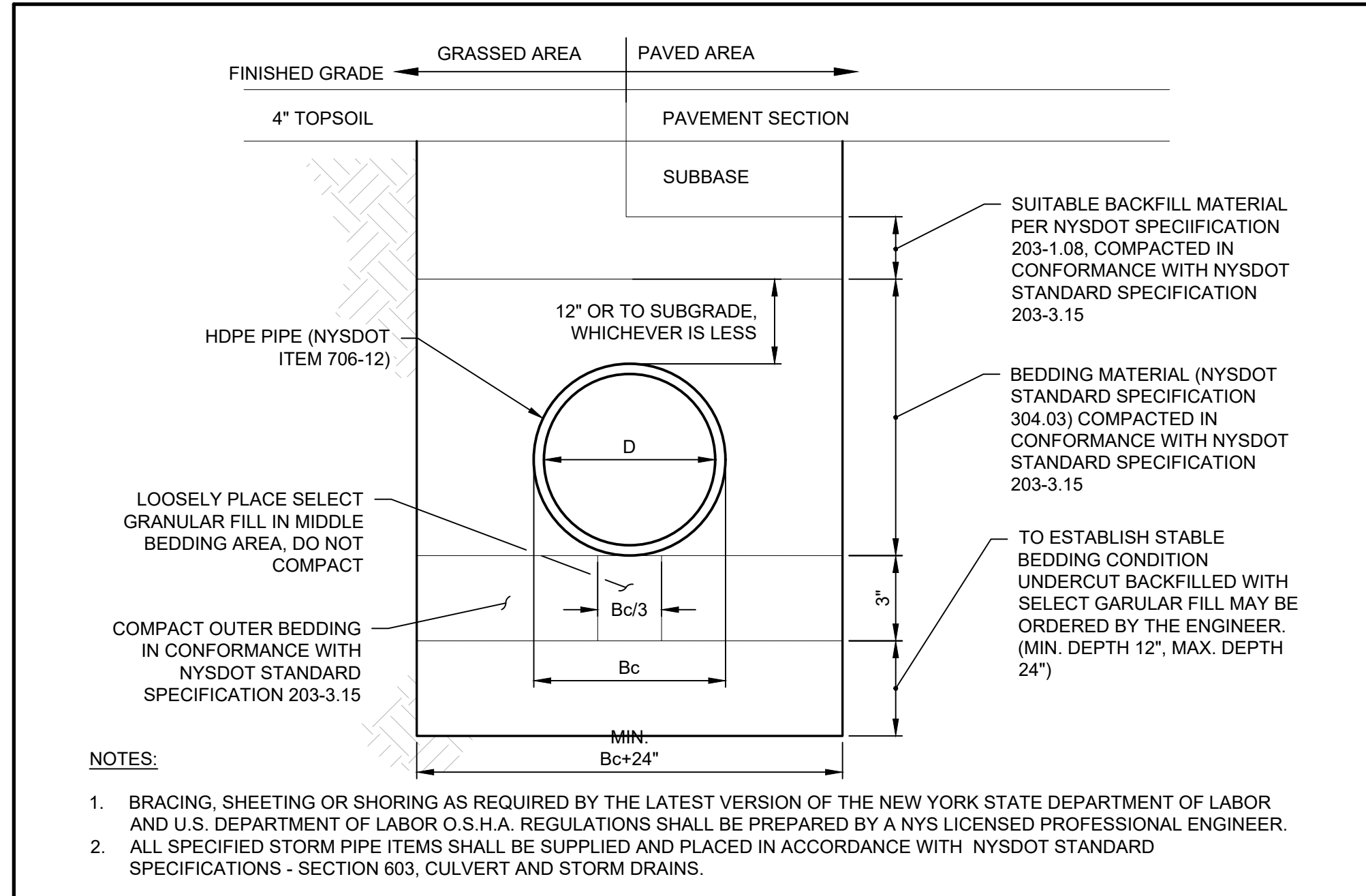
CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK  
 PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	N.T.S.
DATE	OCTOBER 2021
PROJECT	18641.00

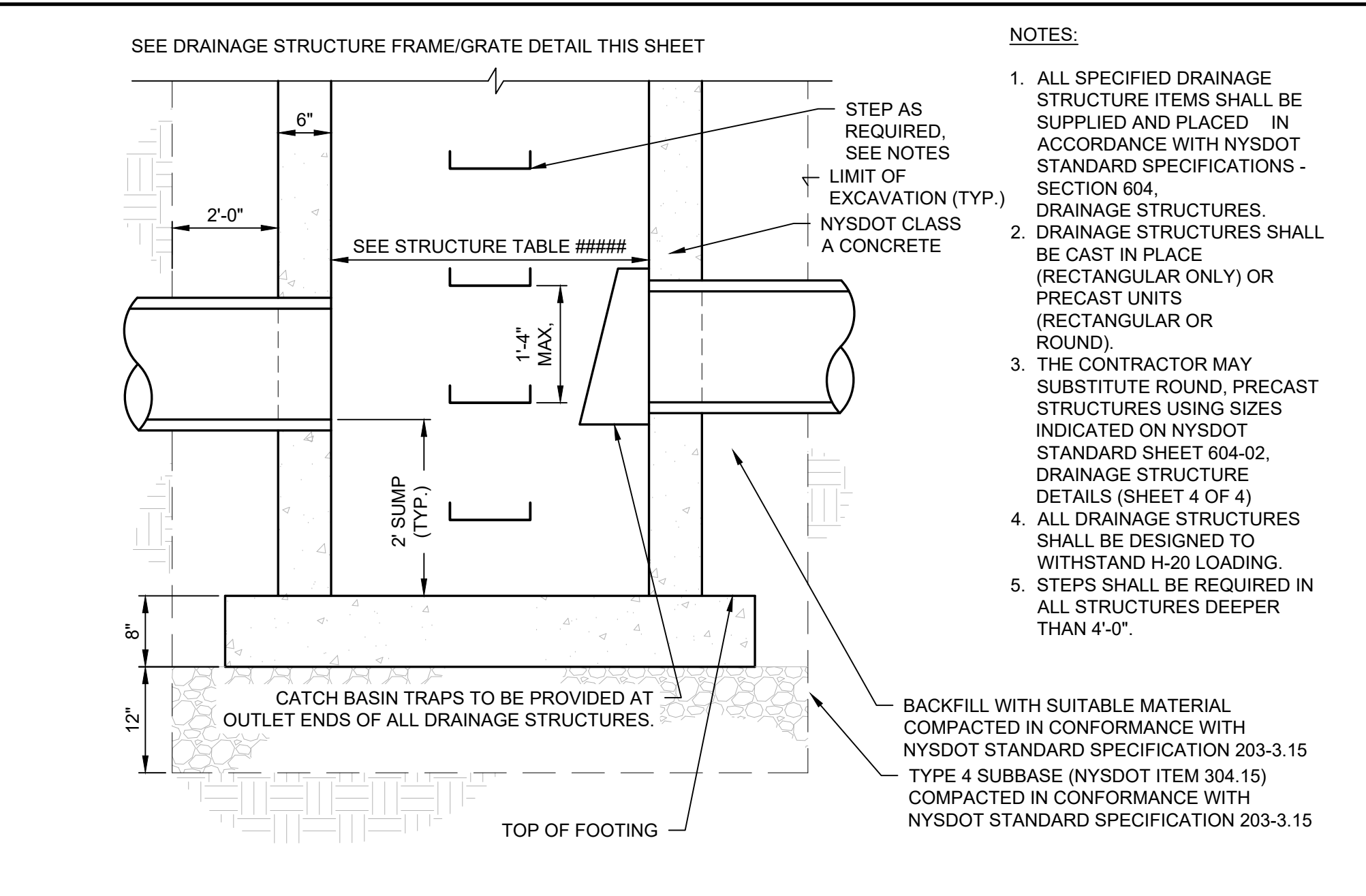
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DRAWING TITLE  
**DRAINAGE DETAILS**

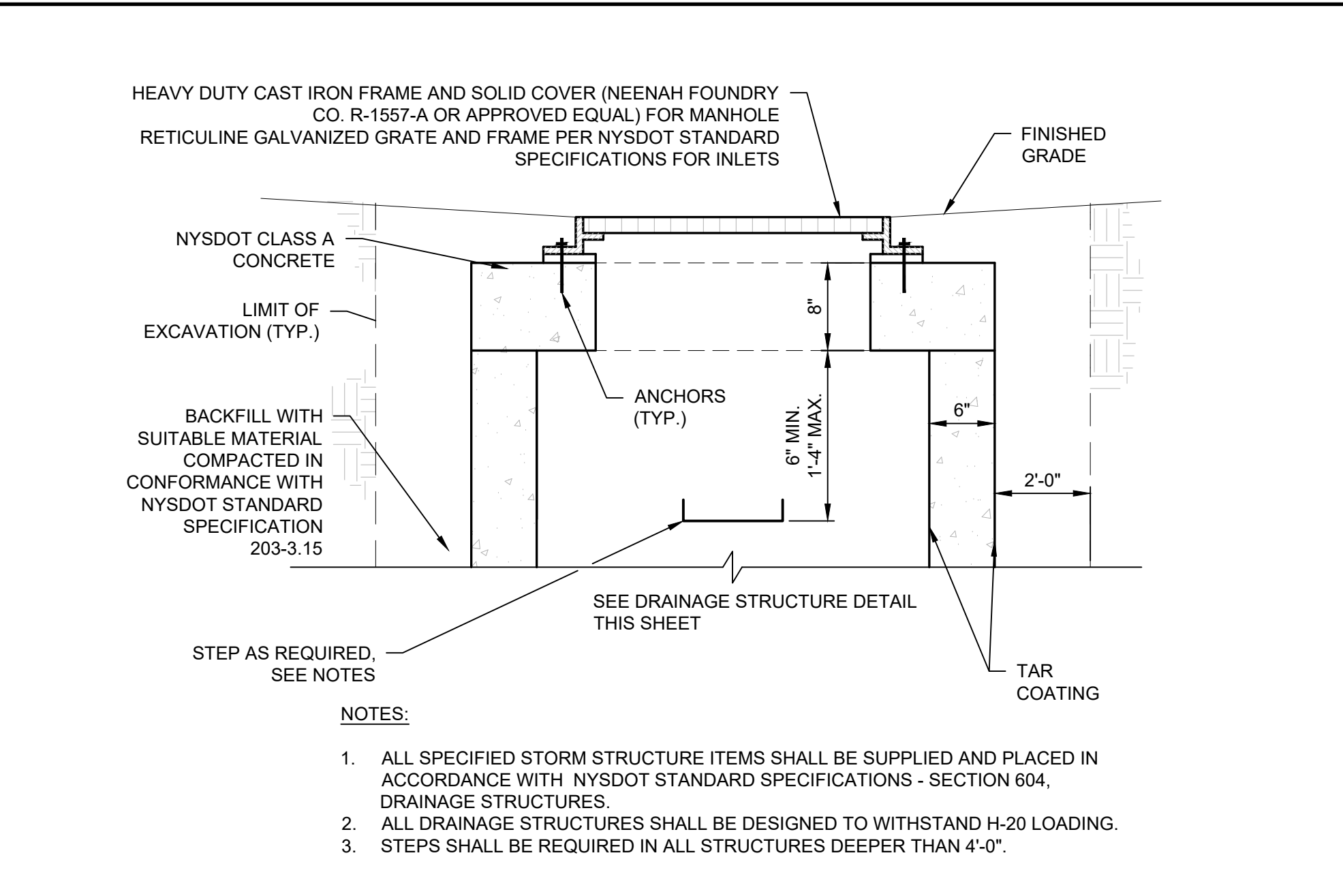
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**GR-14**



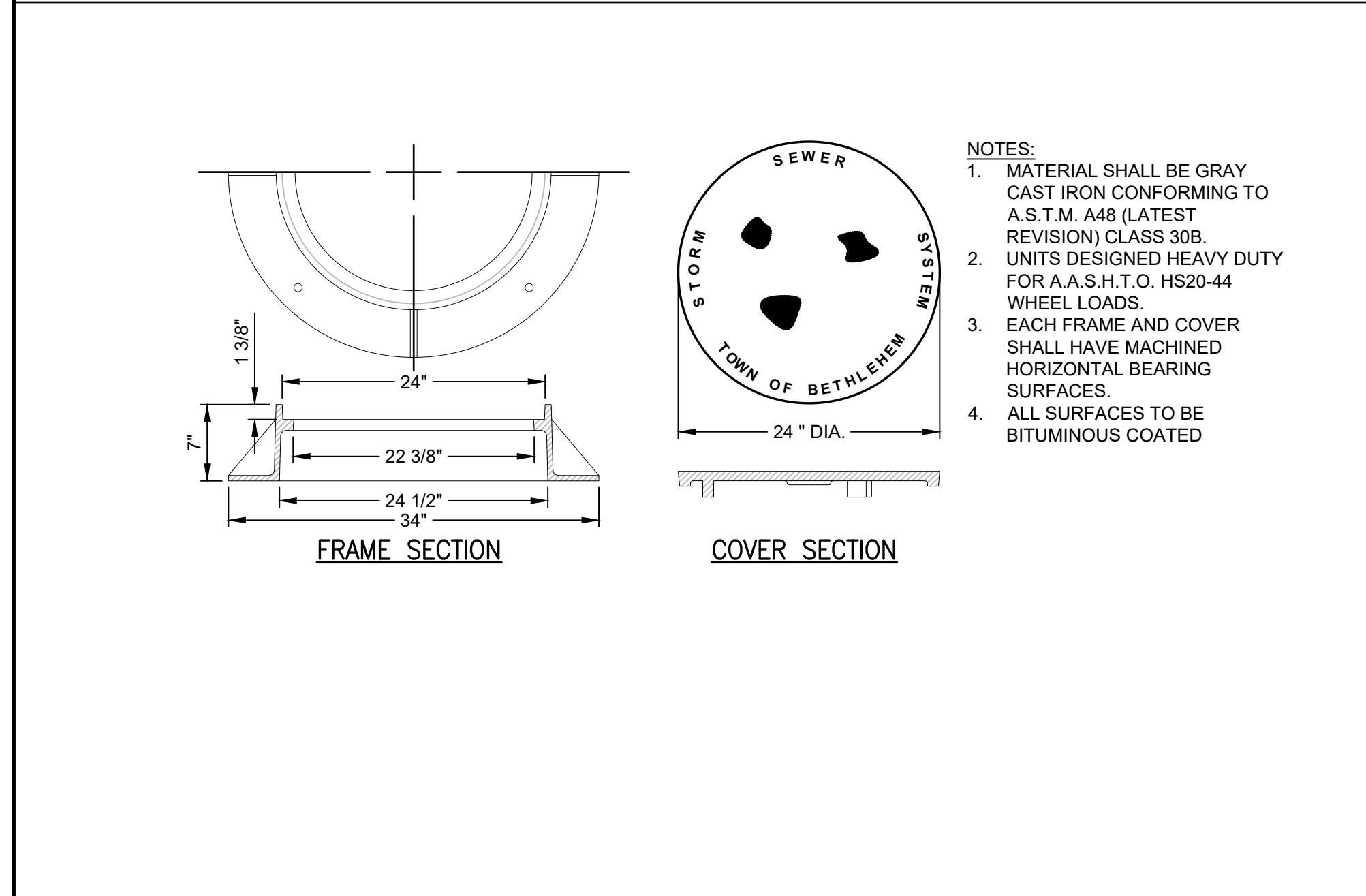
**STORM PIPE BEDDING**



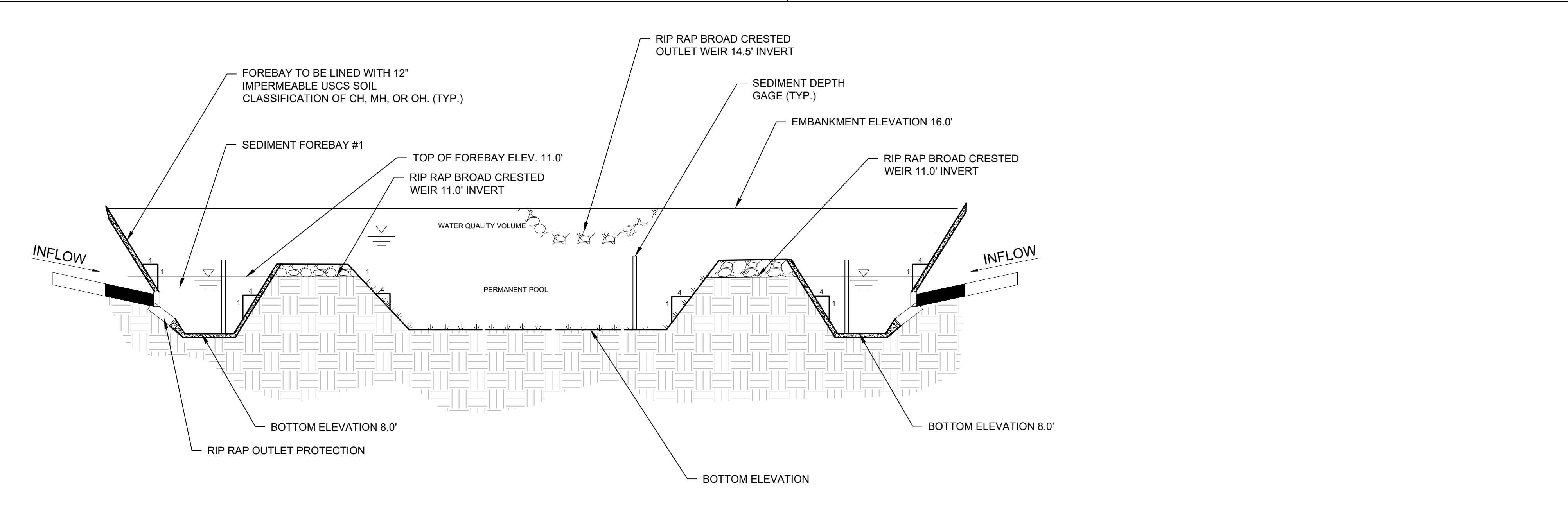
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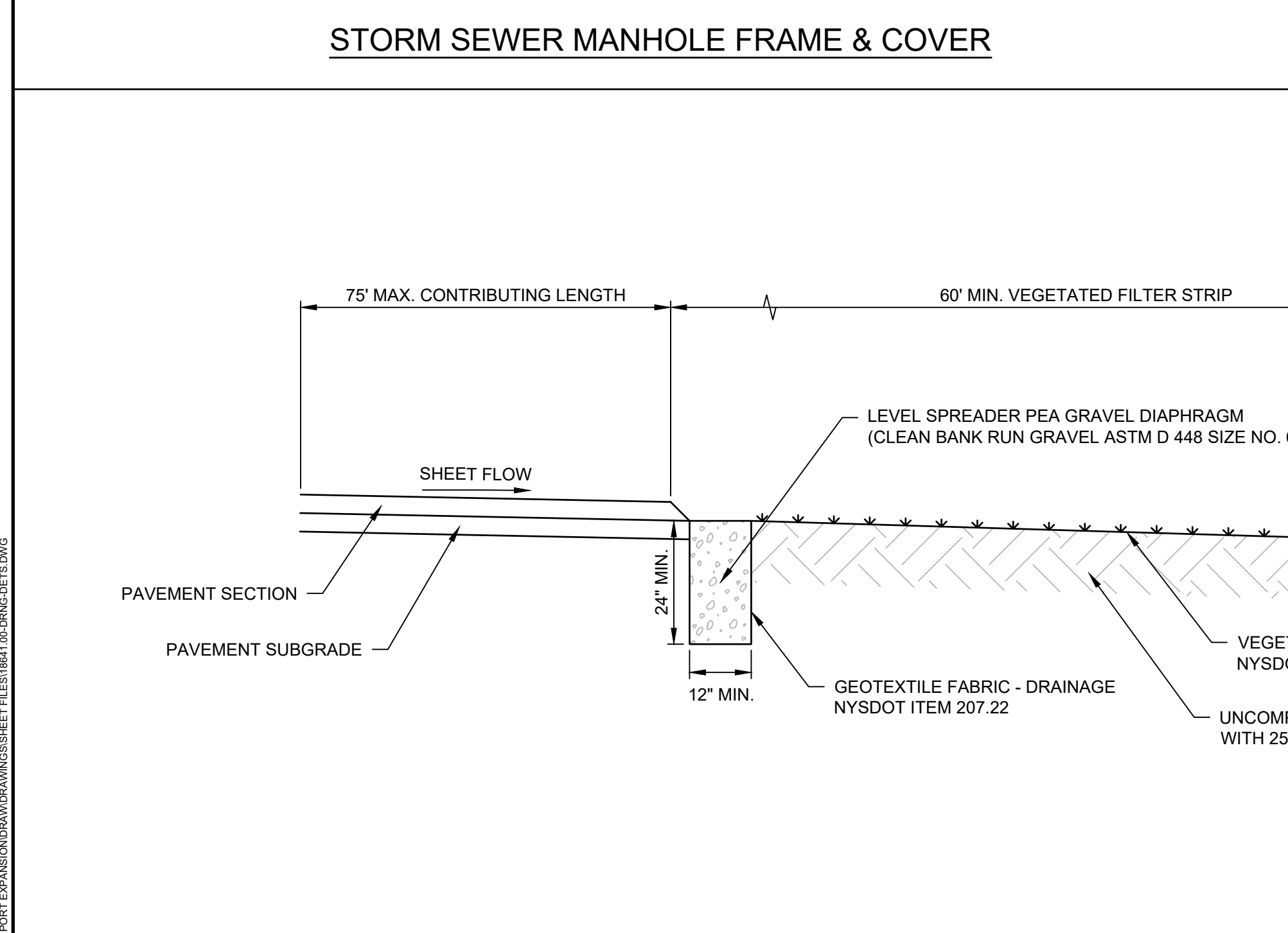
**DRAINAGE STRUCTURE FRAME AND GRATE**



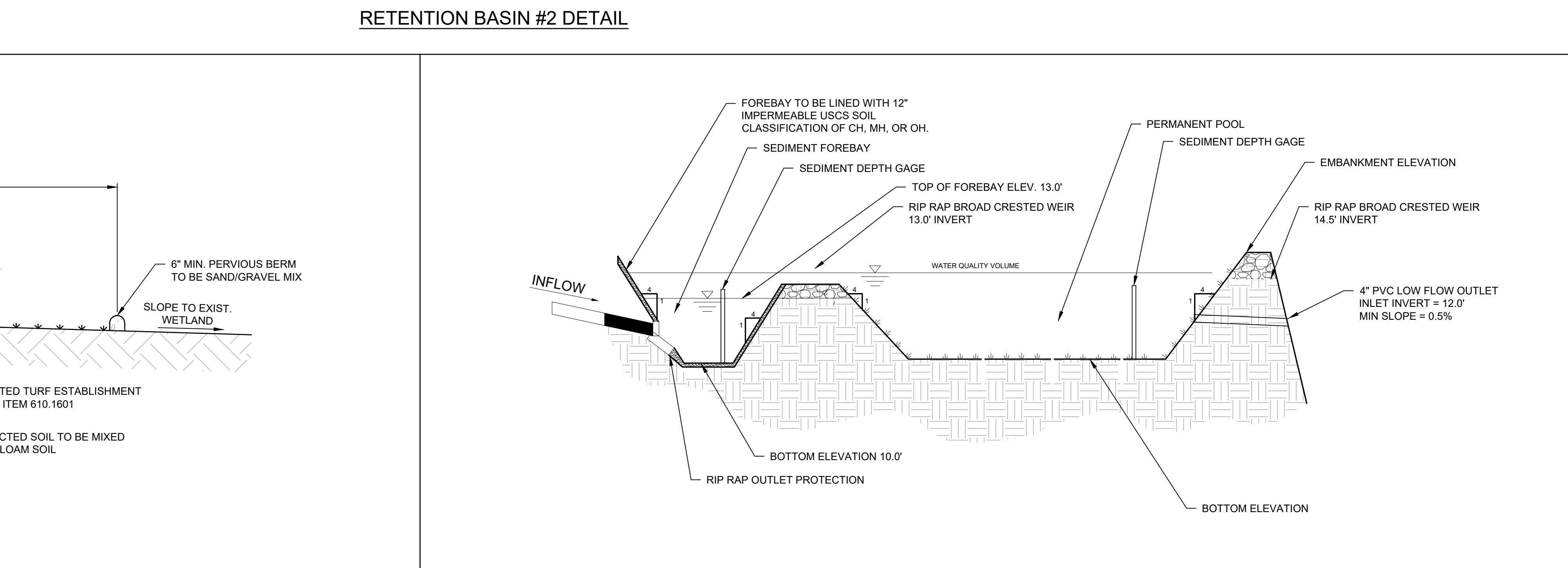
**STORM SEWER MANHOLE FRAME & COVER**



**RETENTION BASIN #2 DETAIL**



**VEGETATED FILTER STRIP**



**RETENTION BASIN #1 DETAIL**

N:\18641\_00 ALBANY PORT DISTRICT COMMISSION\DRAWINGS\DRG\18641.00 GR-14.DWG



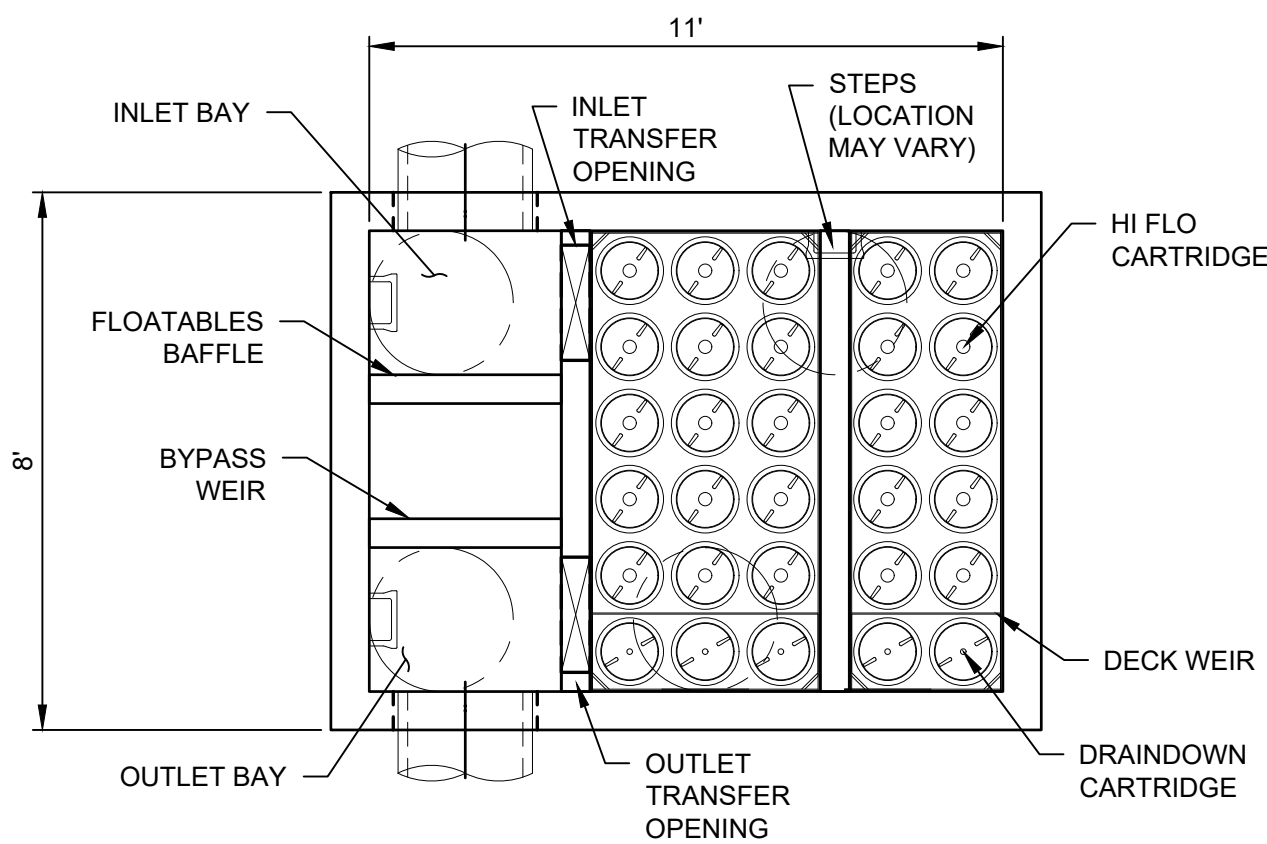
**McFarland Johnson**  
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**PROJECT MILESTONE**  
**PRELIMINARY PLANS**

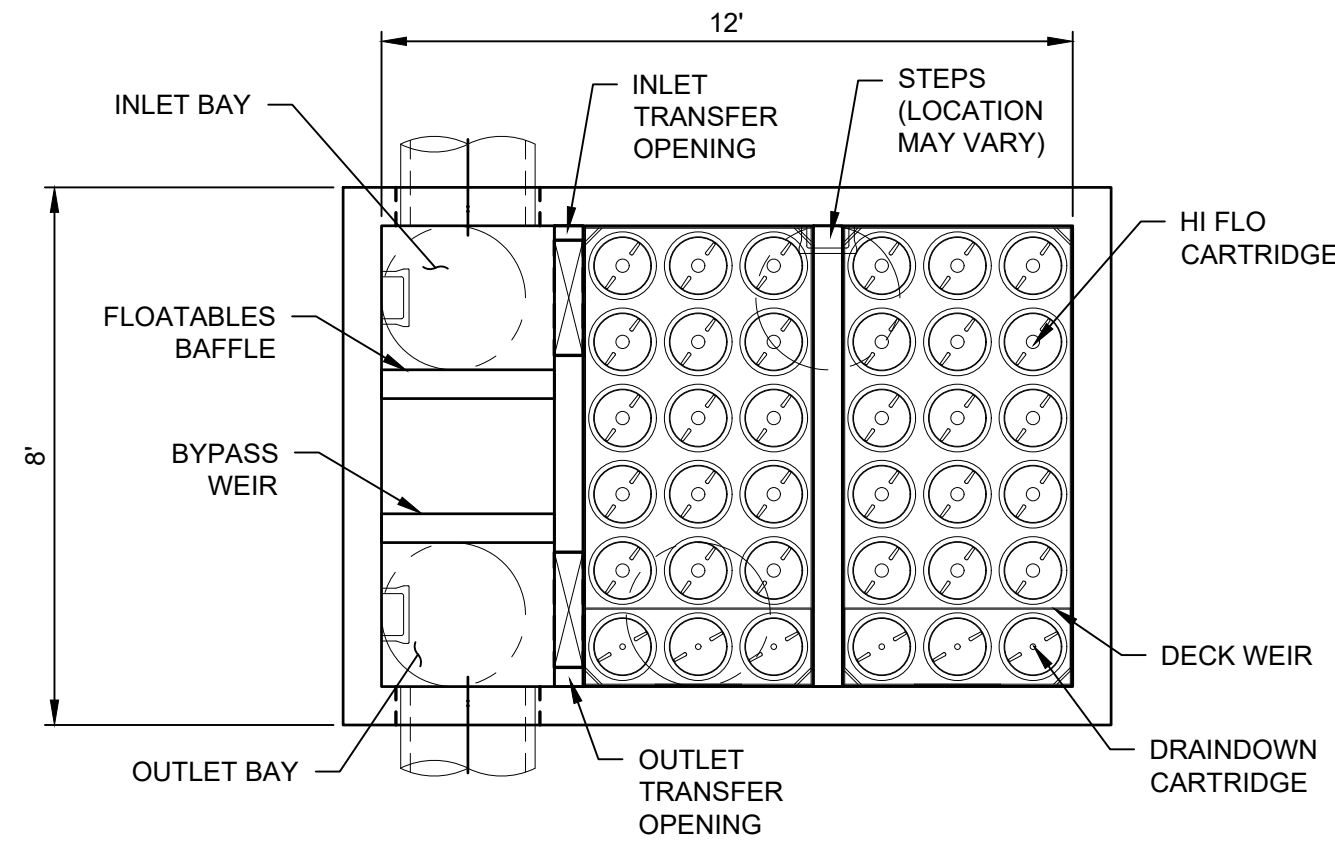
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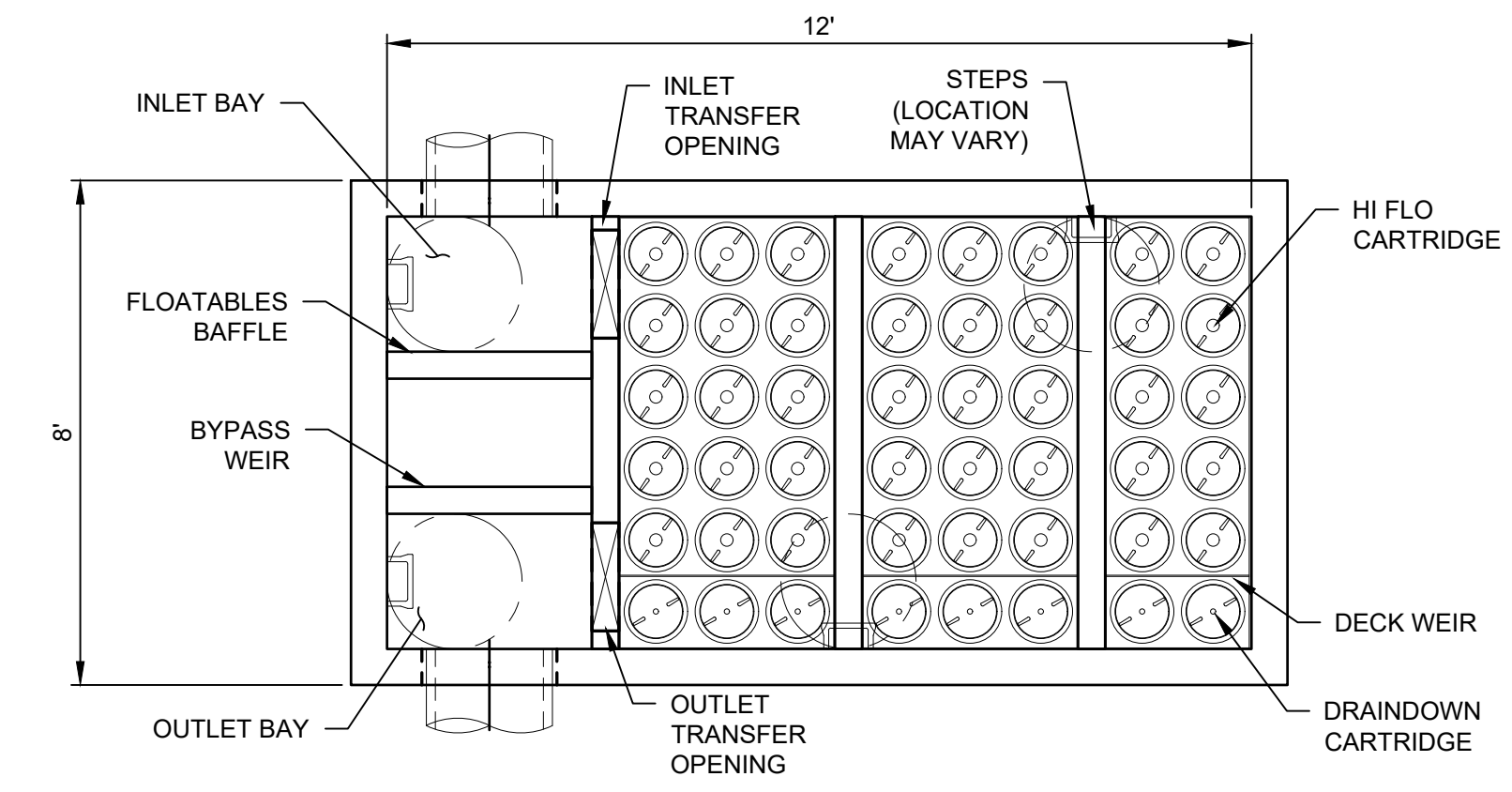
DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	N.T.S.
DATE	OCTOBER 2021
PROJECT	18641.00



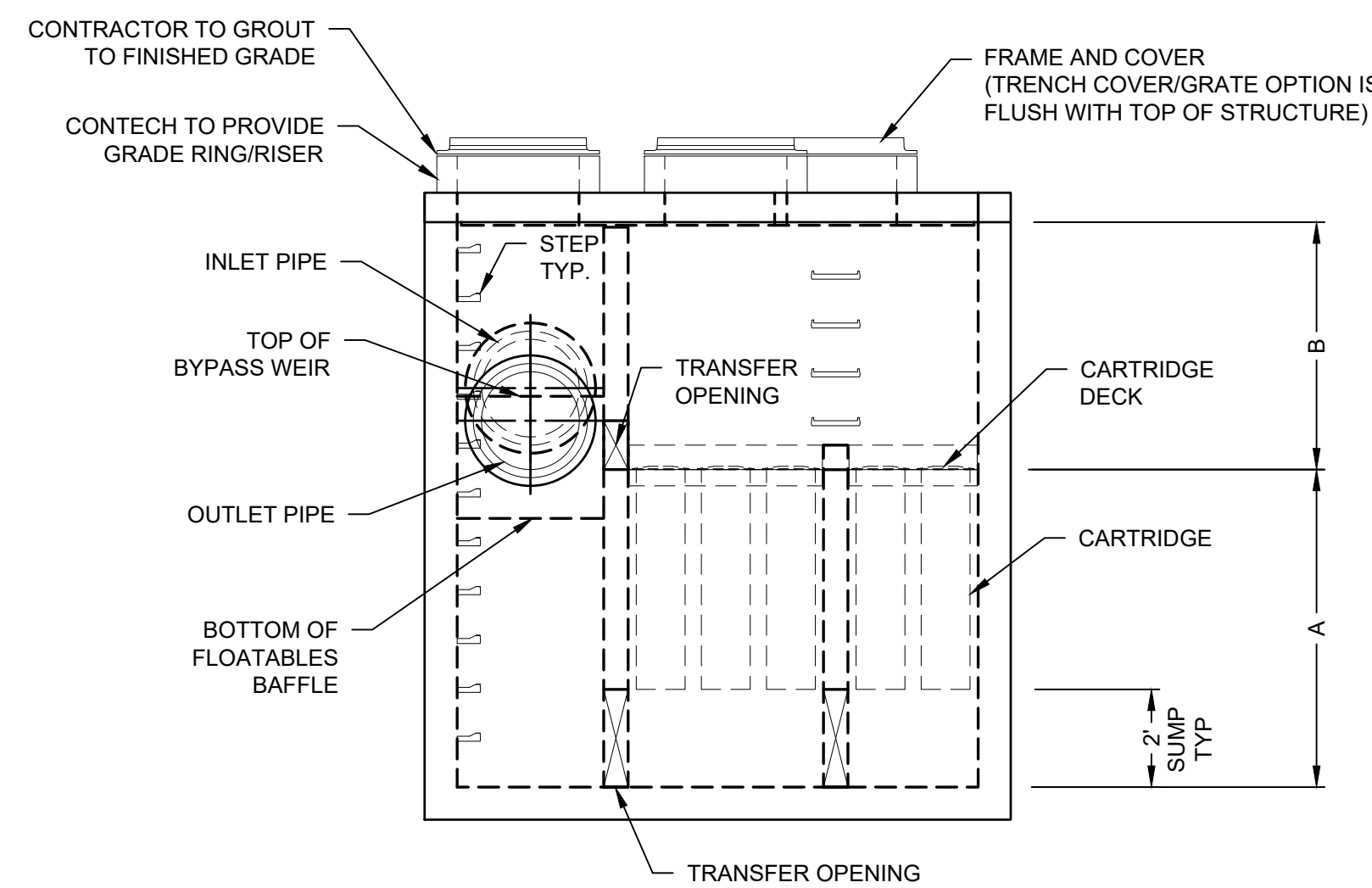
PLAN VIEW  
 (TOP SLAB NOT SHOWN FOR CLARITY)



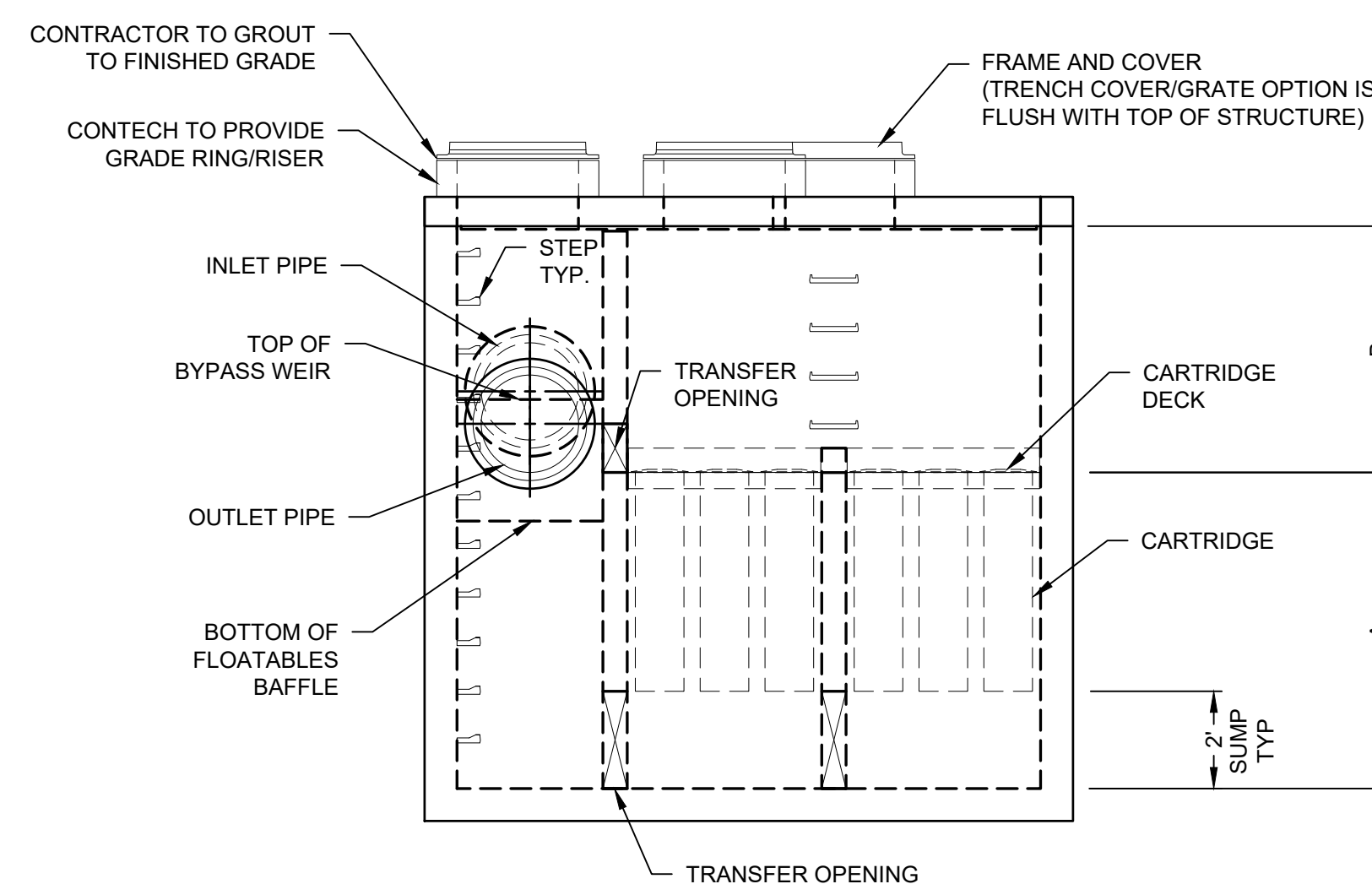
PLAN VIEW  
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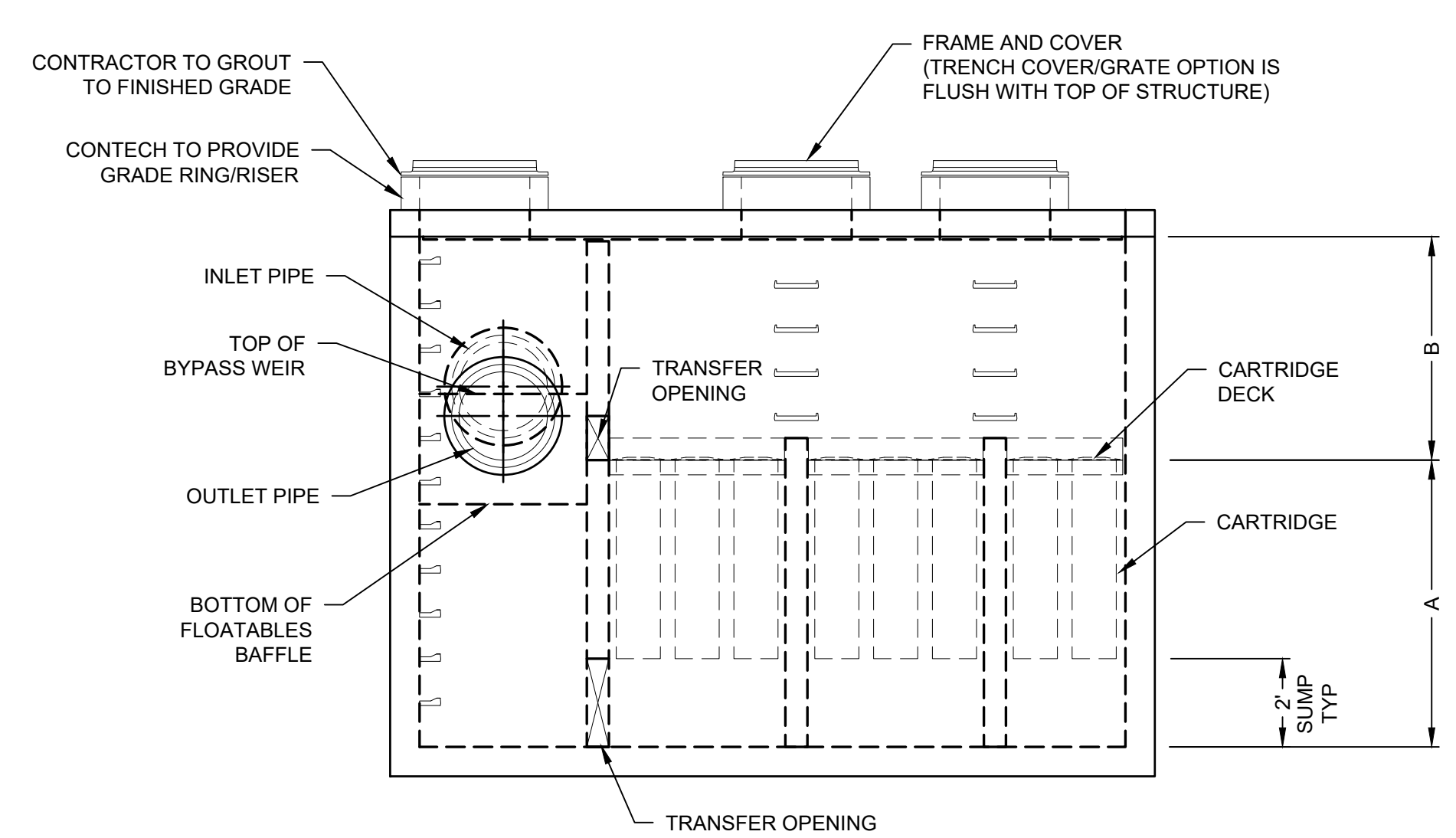
PLAN VIEW  
 (TOP SLAB NOT SHOWN FOR CLARITY)



ELEVATION VIEW



ELEVATION VIEW



ELEVATION VIEW

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 CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.				
CARTRIDGE SELECTION				
CARTRIDGE LENGTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-4"	4'-3"	3'-3"
FLOW RATE HIGH-FLO / DRAINDOWN (CFS) (PER CART)	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025
MAX. TREATMENT (CFS)	4.90	3.67	2.45	1.36
DECK TO INSIDE TOP (MIN) (B)	5.00	4.00	4.00	4.00

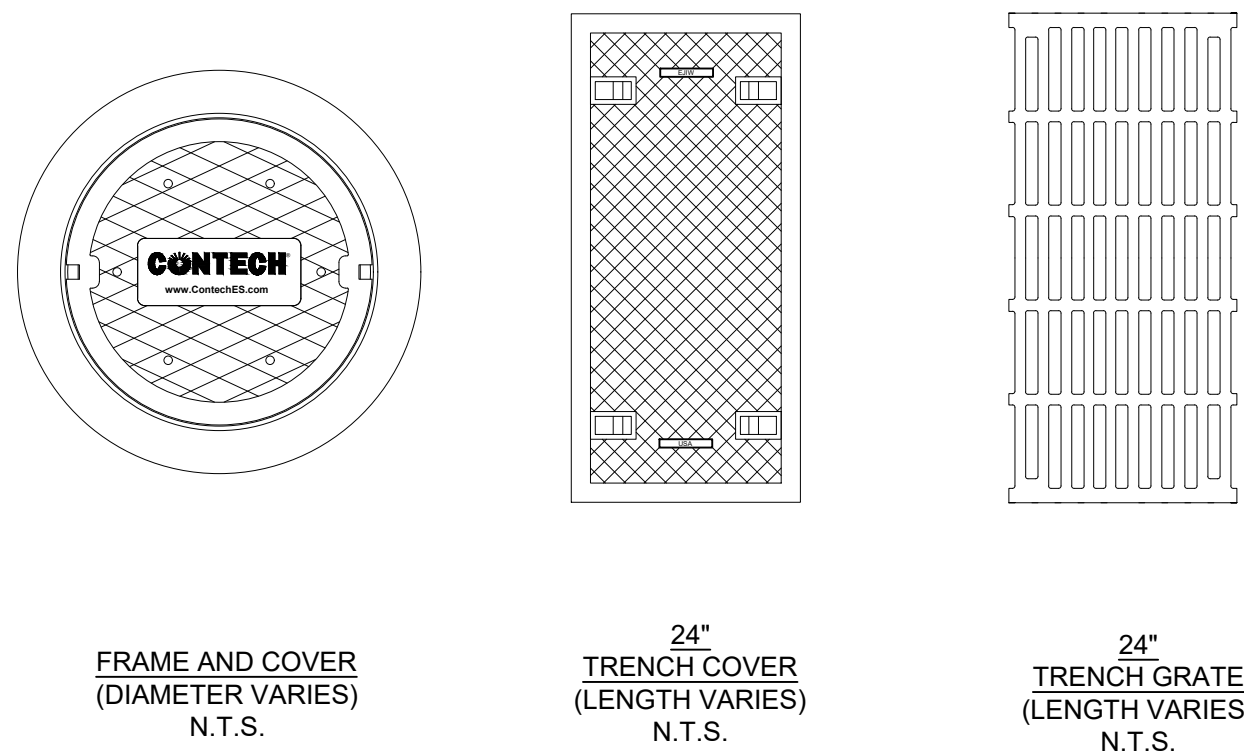
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FLOW RATE HIGH-FLO / DRAINDOWN (CFS) (PER CART)	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025
MAX. TREATMENT (CFS)	5.88	2.21	2.94	1.62
DECK TO INSIDE TOP (MIN) (B)	5.00	4.00	4.00	4.00

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 CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.				
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
MAX. TREATMENT (CFS)	7.84	5.88	3.92	2.16
DECK TO INSIDE TOP (MIN) (B)	5.00	4.00	4.00	4.00

STORMWATER FILTER STRUCTURE TYPE 1  
 (JFPD0811)

STORMWATER FILTER STRUCTURE TYPE 2  
 (JFPD0812)

STORMWATER FILTER STRUCTURE TYPE 3  
 (JFPD0816)



SITE SPECIFIC DATA REQUIREMENTS						
STRUCTURE ID	-					
WATER QUALITY FLOW RATE (cfs)	-					
PEAK FLOW RATE (cfs)	-					
RETURN PERIOD OF PEAK FLOW (yrs)	-					
# OF CARTRIDGES REQUIRED (HF / DD)	-					
CARTRIDGE LENGTH	-					
PIPE DATA	I.E.	MATL.	DIA.	SLOPE %	HGL	
INLET #1	-	-	-	-	-	-
INLET #2	-	-	-	-	-	-
OUTLET	-	-	-	-	-	-
SEE GENERAL NOTES 6.7 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.						
RM ELEVATION						
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT				
NOTES/SPECIAL REQUIREMENTS						
* PER ENGINEER OF RECORD						

- GENERAL NOTES:**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
  - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. [www.ContechES.com](http://www.ContechES.com)
  - 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.
  - 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. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
  - STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857, ASTM C-918, AND AASHTO LOAD FACTOR DESIGN METHOD.
  - OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
  - THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
  - 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**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
  - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
  - CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
  - 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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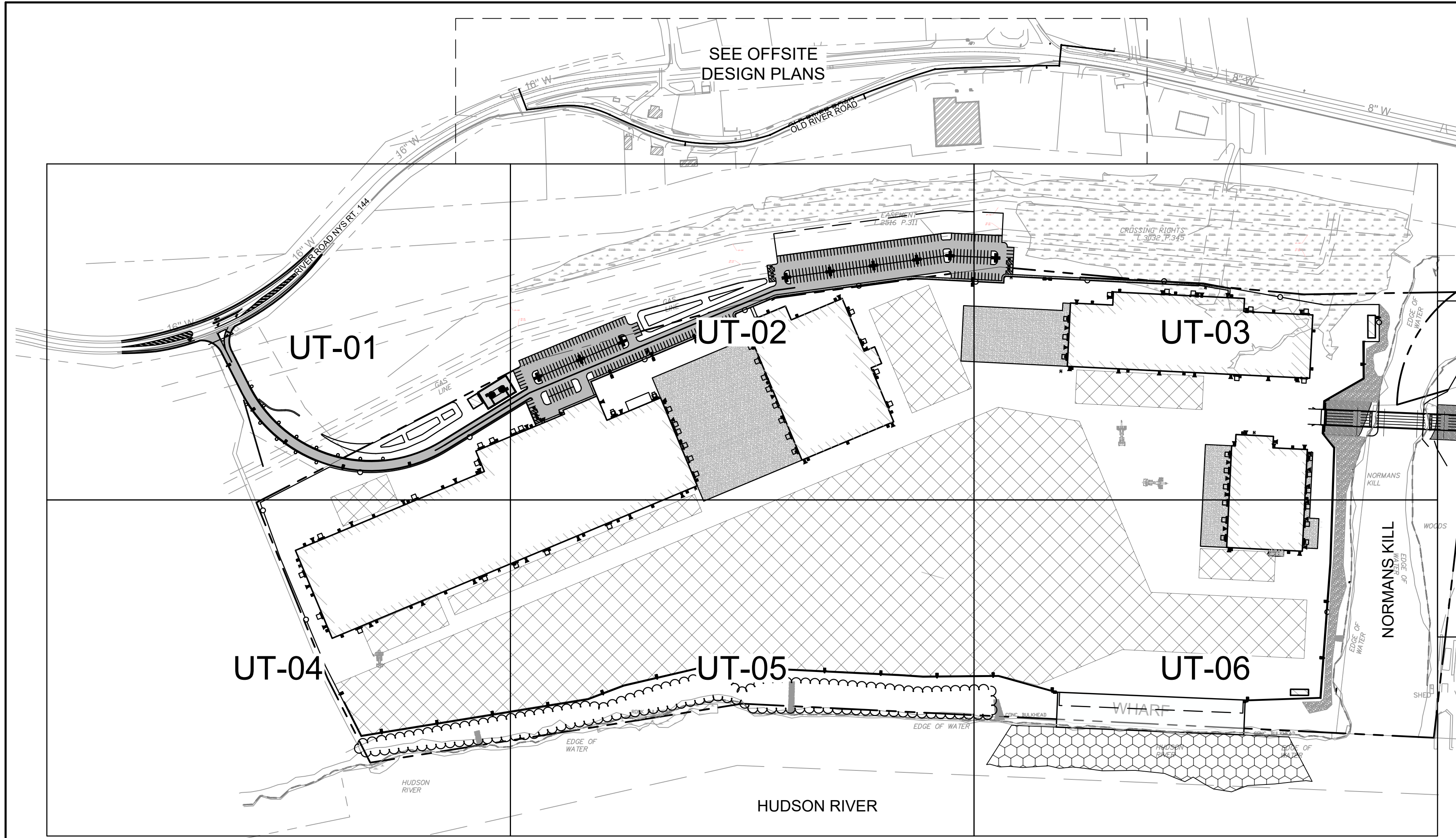
DRAWING TITLE

**DRAINAGE DETAILS**

DRAWING NUMBER

**GR-15**

**STORMWATER FILTER STRUCTURES**



**LEGEND**

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

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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

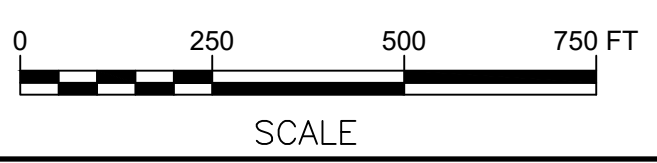
CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK  
 PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=250'
DATE	OCTOBER 2021
PROJECT	18641.00

- 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 ANSIAWWA 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 ANSIAWWA C151 STANDARD. IF REQUIRED BY WATER SUPPLIER THE PIPE SHALL BE ENCASED WITH A MINIMUM 8 MIL. POLYETHYLENE WRAP AS PER LATEST REVISION OF ANSIAWWA 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 ANSIAWWS 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 ANSIAWWA 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 ANSIAWWA 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-LICENSED 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.

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



DRAWING TITLE  
**UTILITY NOTES & INDEX**

DRAWING NUMBER  
**UT-00**  
 31 OF 53

N:\18641\01 ALBANY PORT EXPANSION\DRAWINGS\SWER\UT-00 UT-00.DWG







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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

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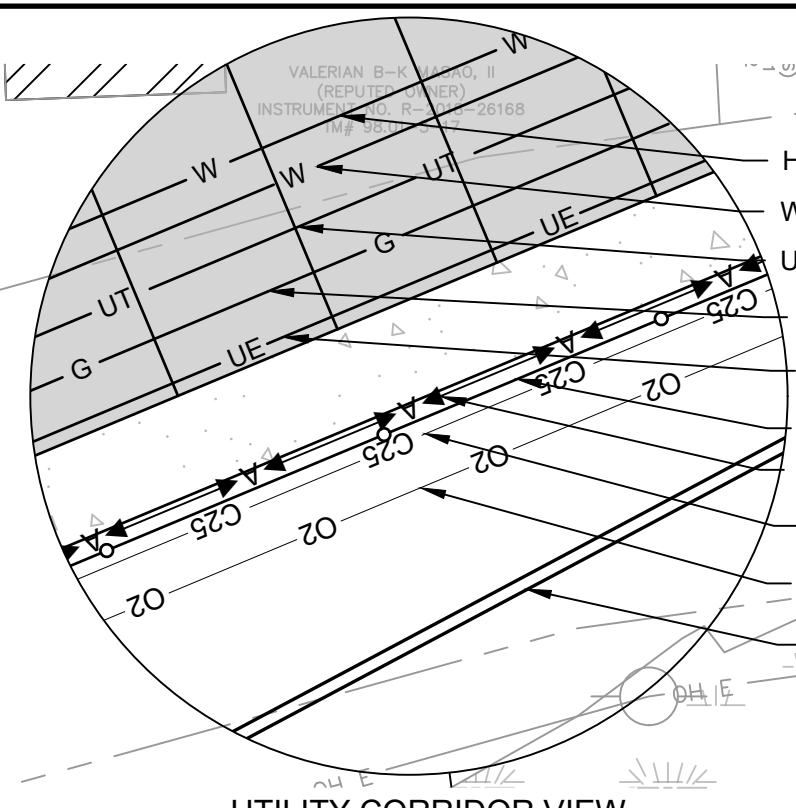
DRAWING TITLE  
**UTILITY PLAN**

DRAWING NUMBER  
**UT-02**

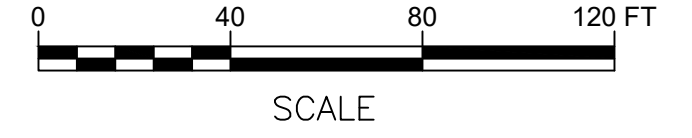
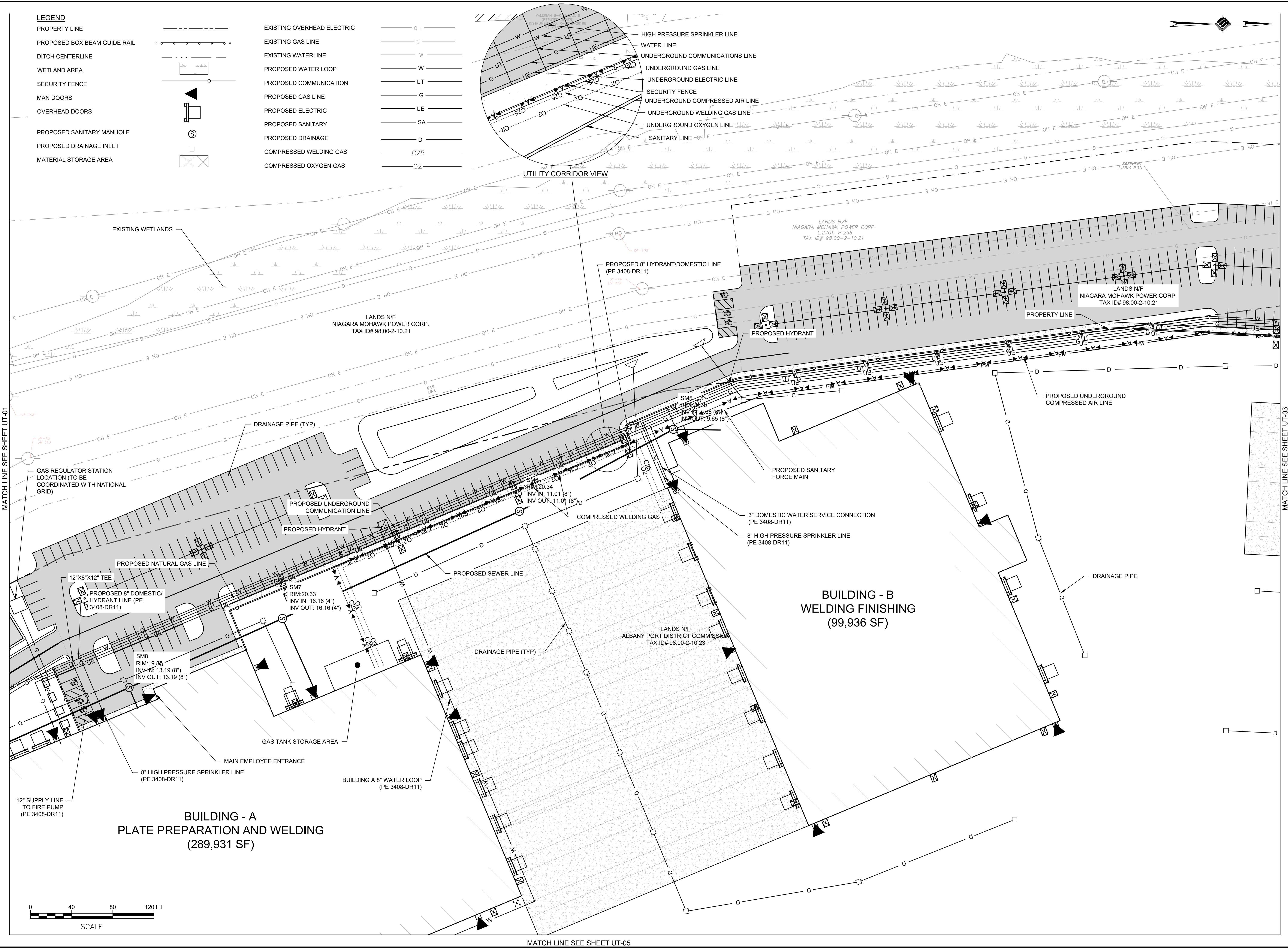
**LEGEND**

PROPERTY LINE	
PROPOSED BOX BEAM GUIDE RAIL	
DITCH CENTERLINE	
WETLAND AREA	
SECURITY FENCE	
MAN DOORS	
OVERHEAD DOORS	
PROPOSED SANITARY MANHOLE	
PROPOSED DRAINAGE INLET	
MATERIAL STORAGE AREA	

EXISTING OVERHEAD ELECTRIC	OH
EXISTING GAS LINE	G
EXISTING WATERLINE	W
PROPOSED WATER LOOP	W
PROPOSED COMMUNICATION	UT
PROPOSED GAS LINE	G
PROPOSED ELECTRIC	UE
PROPOSED SANITARY	SA
PROPOSED DRAINAGE	D
COMPRESSED WELDING GAS	C25
COMPRESSED OXYGEN GAS	O2



HIGH PRESSURE SPRINKLER LINE
WATER LINE
UNDERGROUND COMMUNICATIONS LINE
UNDERGROUND GAS LINE
UNDERGROUND ELECTRIC LINE
SECURITY FENCE
UNDERGROUND COMPRESSED AIR LINE
UNDERGROUND WELDING GAS LINE
UNDERGROUND OXYGEN LINE
SANITARY LINE



MATCH LINE SEE SHEET UT-05

MATCH LINE SEE SHEET UT-01

MATCH LINE SEE SHEET UT-03

N:\18641\02 ALBANY PORT EXPANSION\DRAWINGS\SHEET PRELIM\UT-02.DWG







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 SARATOGA SPRINGS, NEW YORK 12866  
 P: 518-580-9380 F: 518-580-9383  
 SaratogaROM@mjinc.com

PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

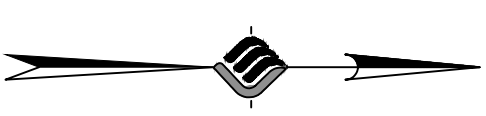
DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=40'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**UTILITY PLAN**

DRAWING NUMBER  
**UT-05**

MATCH LINE SEE SHEET UT-02



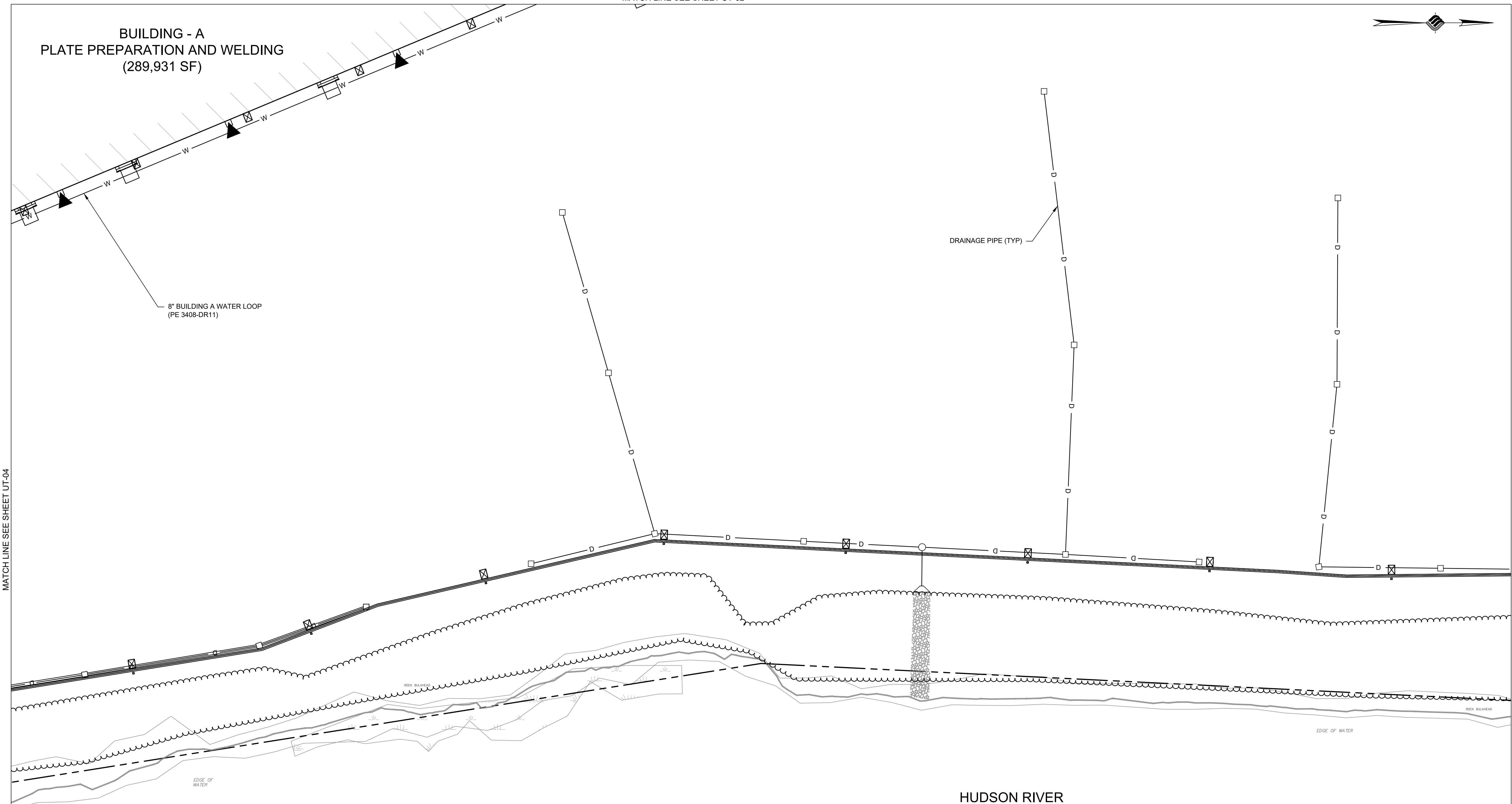
**BUILDING - A**  
**PLATE PREPARATION AND WELDING**  
 (289,931 SF)

8" BUILDING A WATER LOOP  
 (PE 3408-DR11)

DRAINAGE PIPE (TYP)

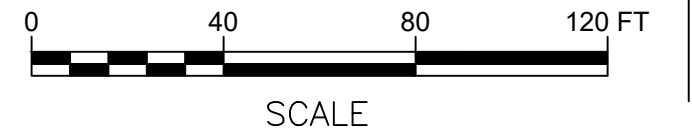
MATCH LINE SEE SHEET UT-04

MATCH LINE SEE SHEET UT-06



**LEGEND**

PROPERTY LINE		EXISTING OVERHEAD ELECTRIC	
PROPOSED BOX BEAM GUIDE RAIL		EXISTING GAS LINE	
DITCH CENTERLINE		EXISTING WATERLINE	
WETLAND AREA		PROPOSED WATER LOOP	
SECURITY FENCE		PROPOSED COMMUNICATION	
MAN DOORS		PROPOSED GAS LINE	
OVERHEAD DOORS		PROPOSED ELECTRIC	
PROPOSED SANITARY MANHOLE		PROPOSED SANITARY	
PROPOSED DRAINAGE INLET		PROPOSED DRAINAGE	
MATERIAL STORAGE AREA		COMPRESSED WELDING GAS	
		COMPRESSED OXYGEN GAS	



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ALBANY, NEW YORK

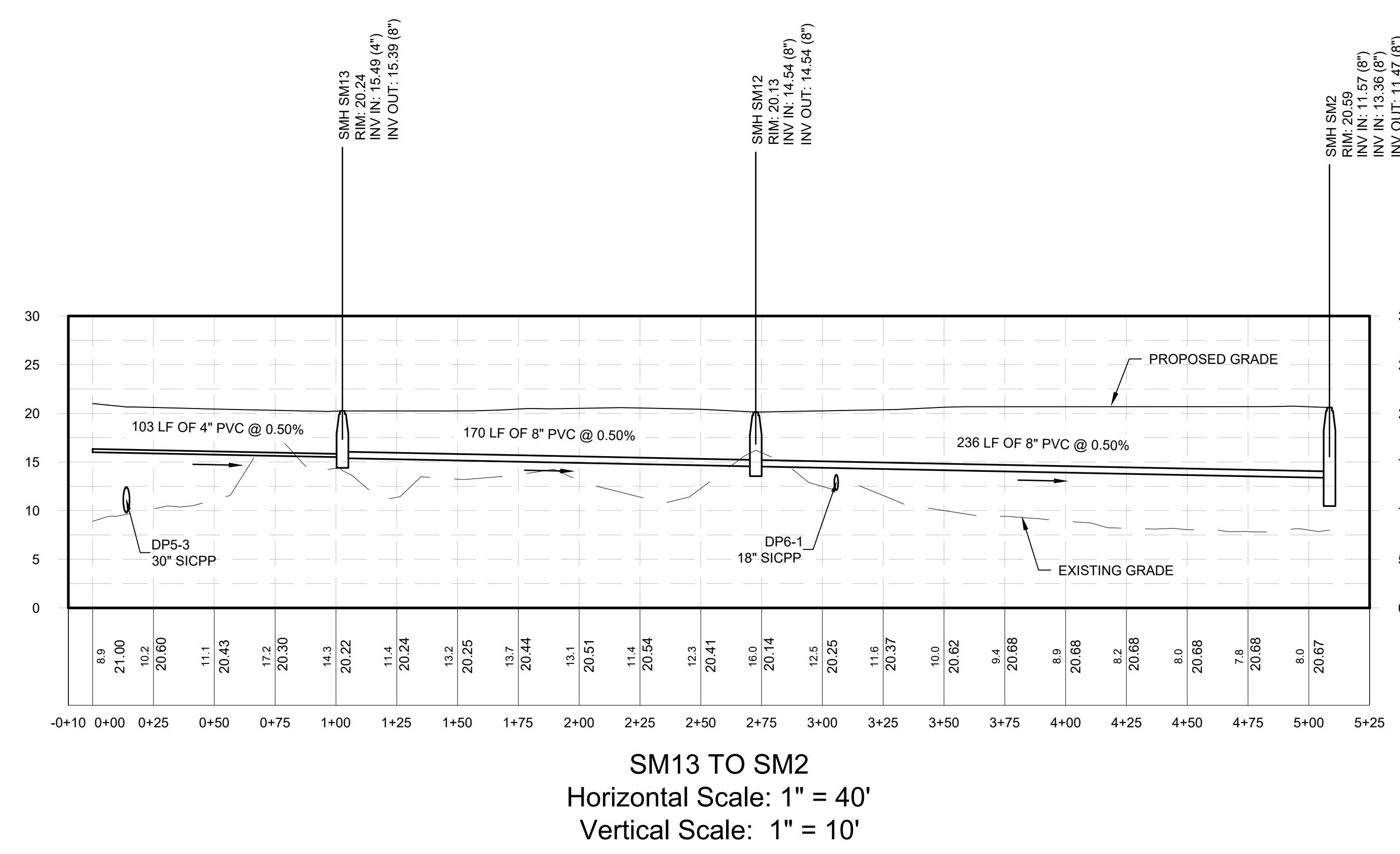
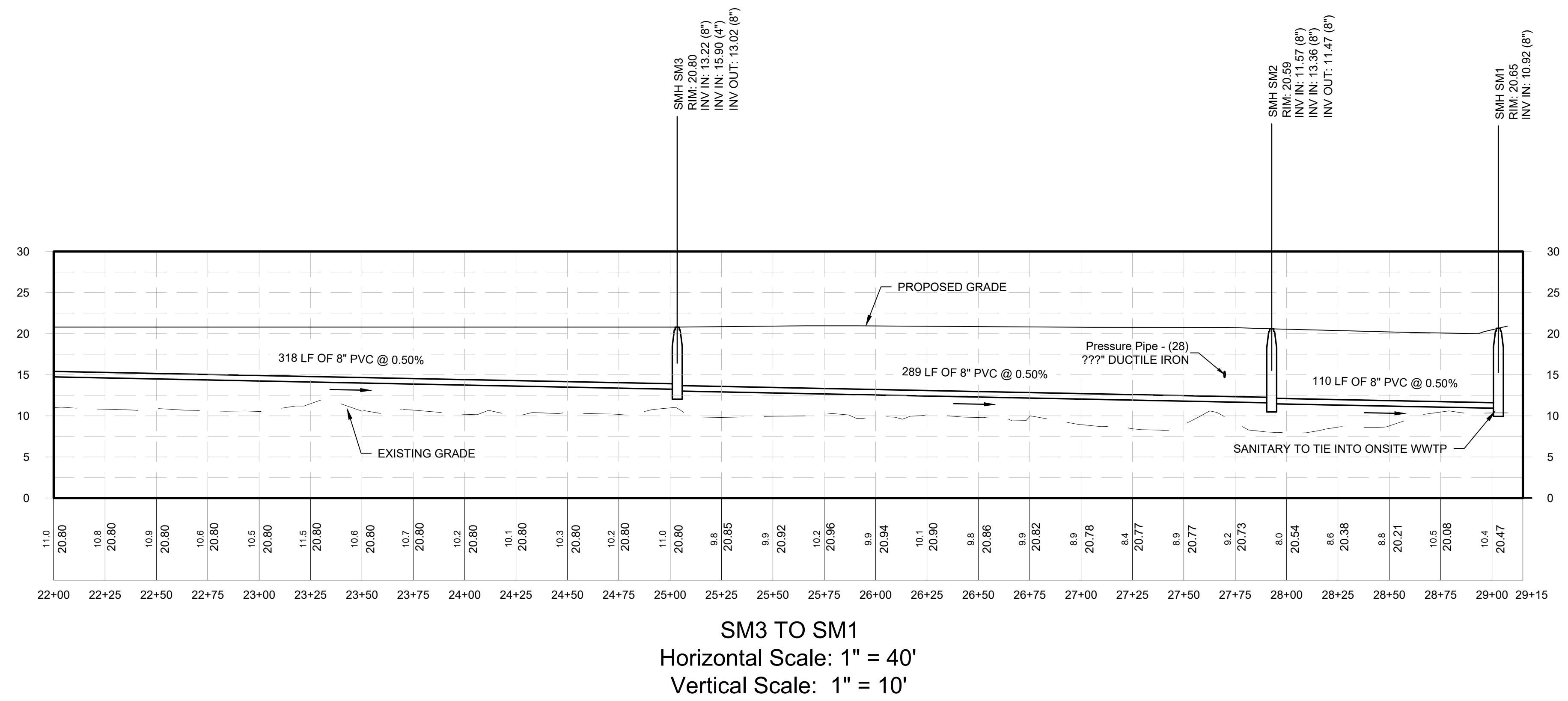
PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

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SCALE	1"=40'
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DRAWING TITLE  
**SANITARY SYSTEM PROFILE**

DRAWING NUMBER  
**UT-08**



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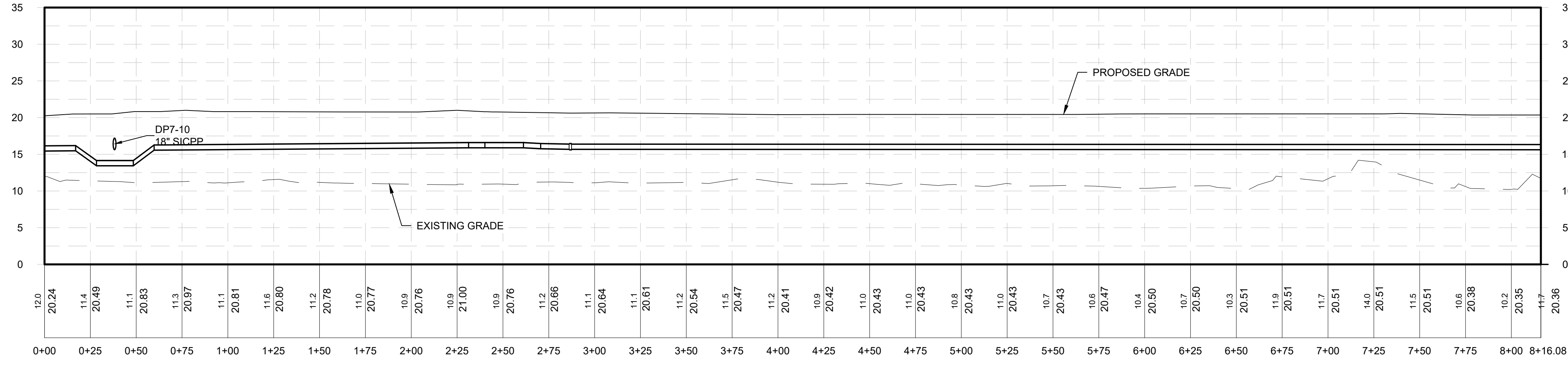




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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION



**WATER LOOP AROUND BLDG C**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'

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

PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

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DRAWING TITLE  
**WATER SYSTEM PROFILE**

DRAWING NUMBER  
**UT-11**

N:\18641.00 ALBANY PORT EXPANSION\DRAWINGS\DWG\PRELIM\WATER\WATER.DWG





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**PROJECT MILESTONE  
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 ALBANY, NEW YORK

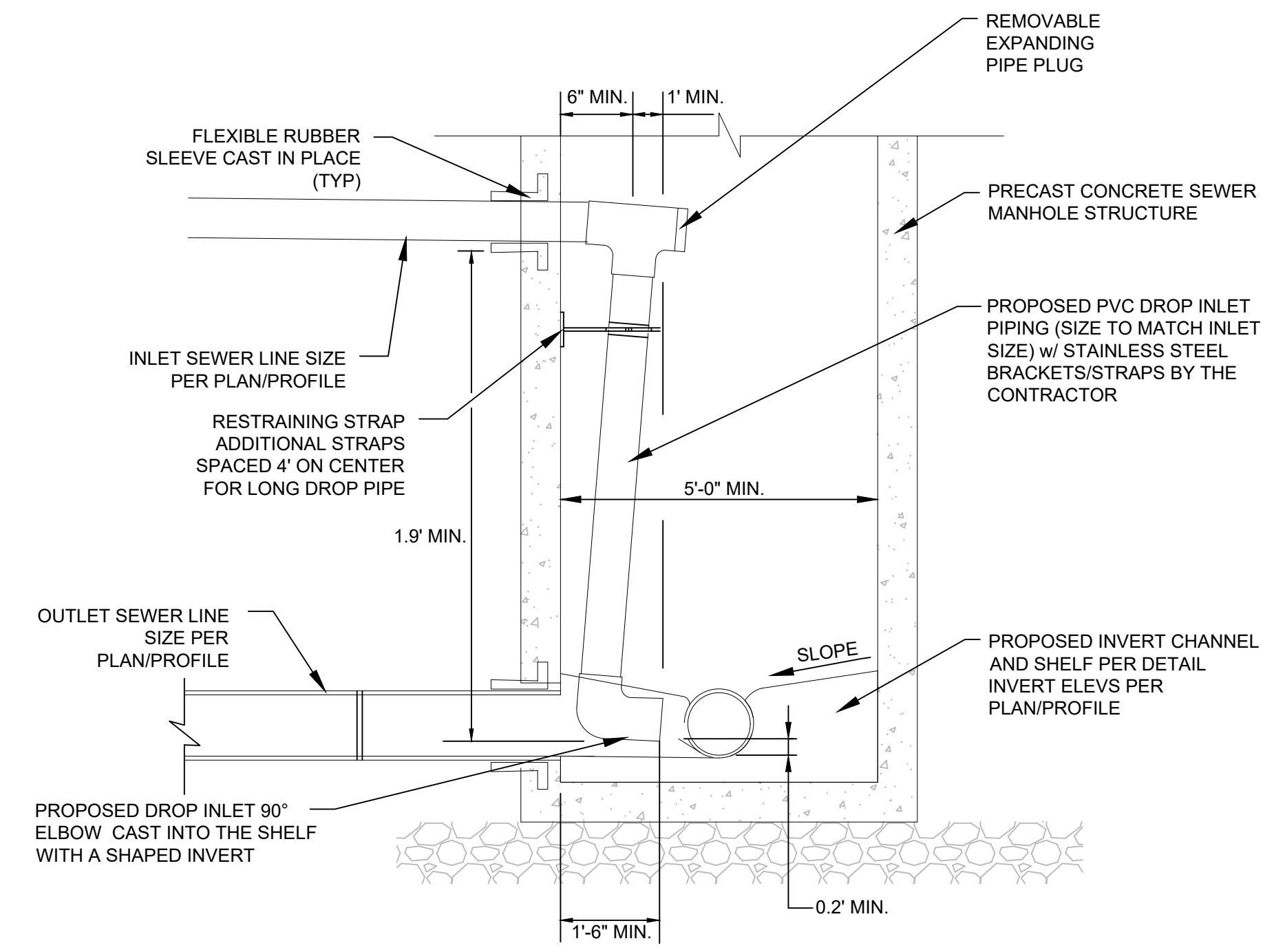
**PROJECT:**  
 PORT OF ALBANY SITE INFRASTRUCTURE  
 IMPROVEMENTS

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	N.T.S.
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PROJECT	18641.00

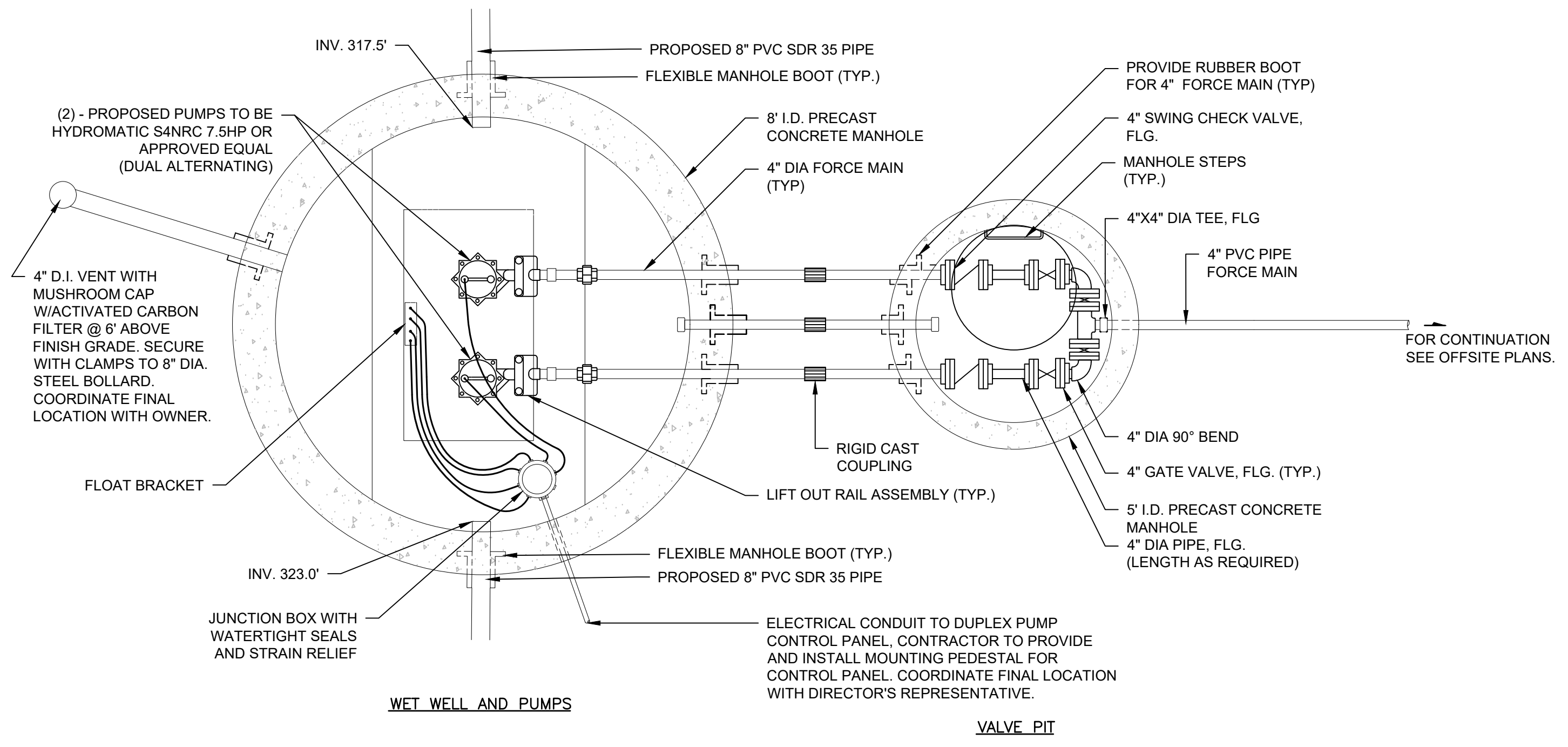
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**DRAWING TITLE**  
 SANITARY SYSTEM  
 DETAILS

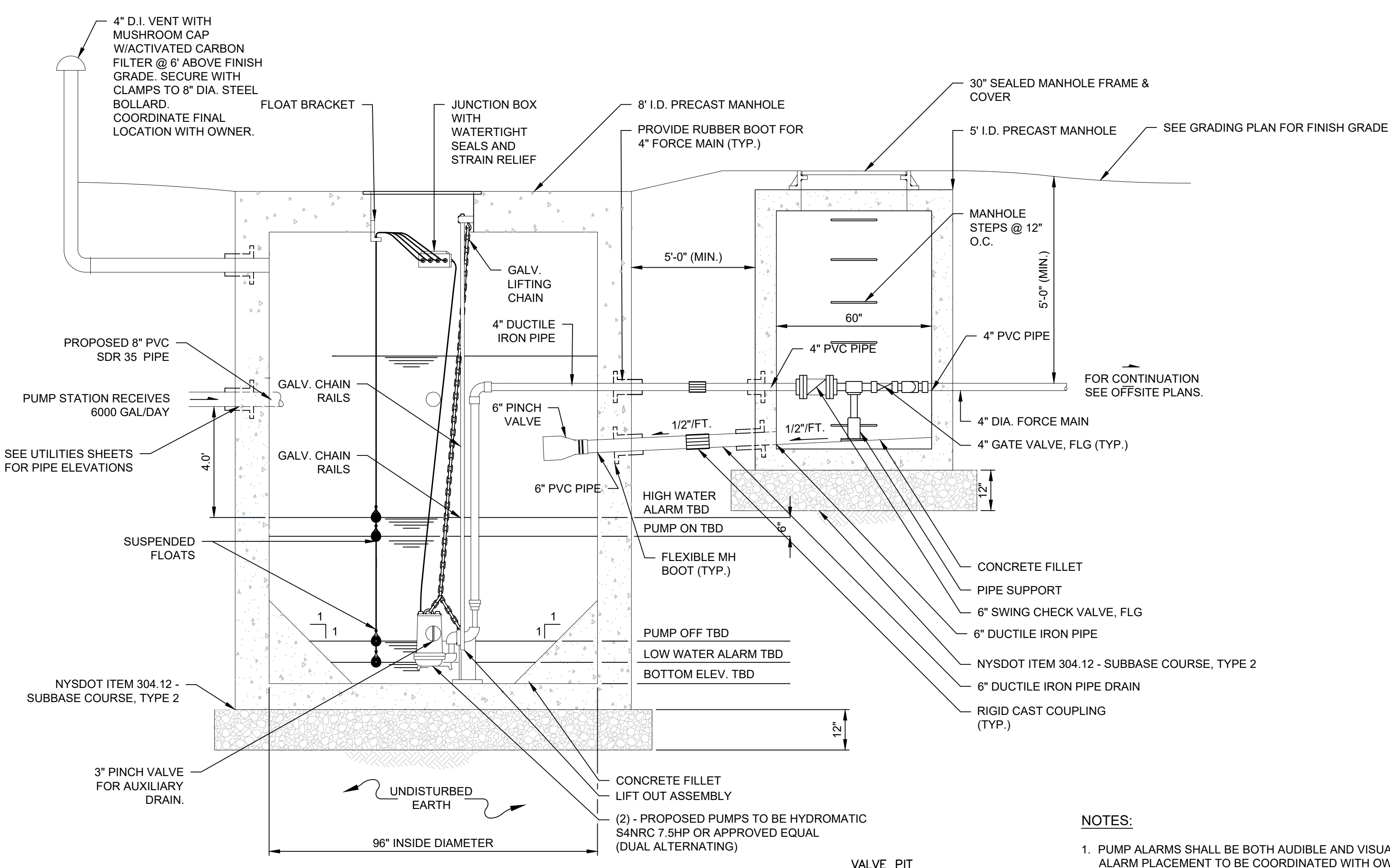
**DRAWING NUMBER**  
 UT-13  
 44 OF 53



**DROP MANHOLE**



**PLAN VIEW**



**SECTION VIEW**

- NOTES:**
- PUMP ALARMS SHALL BE BOTH AUDIBLE AND VISUAL. ALARM PLACEMENT TO BE COORDINATED WITH OWNER.
  - SEVERAL APPURTENANCES IN SECTION MAY BE SHOWN OUT OF LOCATION FOR INFORMATIONAL PURPOSES.
  - PUMPS SHALL BE SIZED TO BE DUAL ALTERNATING PUMPS, EACH CAPABLE OF HANDLING PEAK HOURLY FLOWS WITH ONE UNIT OUT OF SERVICE.

**PUMP STATION**

N:\18641\05 ALBANY PORT EXPANSION\DRAWINGS\SHEET FILES\SMU\04 UT-13.DWG



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PROJECT MILESTONE

**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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ALBANY, NEW YORK

PROJECT: PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS

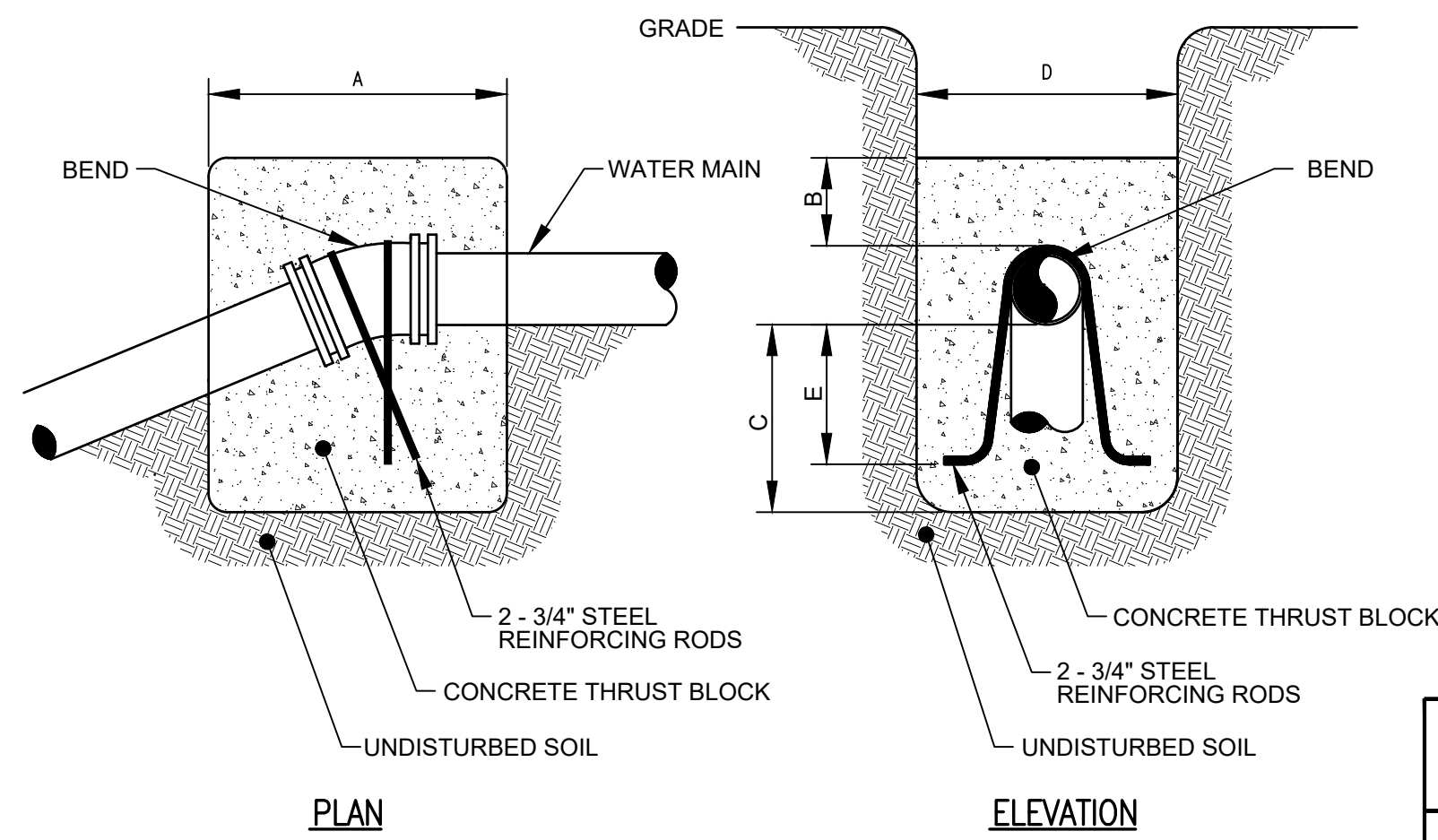
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**WATER DETAILS**

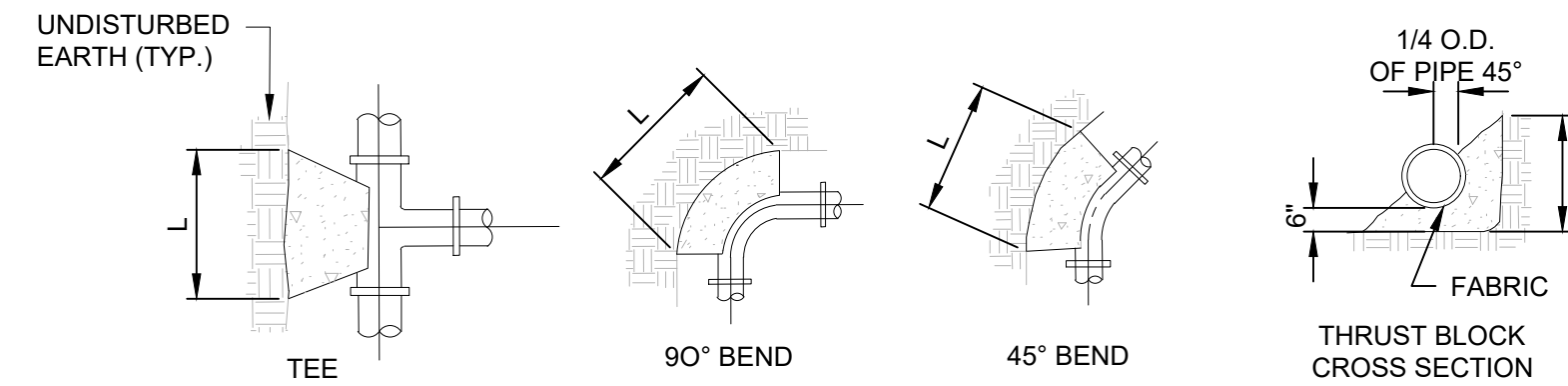
DRAWING NUMBER

UT-14



- NOTES:**
- CONCRETE FOR THRUST BLOCKS SHALL BE CONCRETE CLASS A (OR CLASS G IF UNDERWATER) IN ACCORDANCE WITH NYS DOT SECTION 501.
  - CONCRETE NOT TO OVERLAP ANY JOINT.

BEND	MINIMUM VOLUME OF CONCRETE	MINIMUM ALLOWABLE DIMENSIONS FOR VERTICAL THRUST BLOCKS (IN FEET)				
		A	B	C	D	E
6" x 11-1/4"	1.00 CY	3.0	1.0	1.3	3.0	1.0
6" x 22-1/2"	1.50 CY	4.0	1.0	1.8	3.0	1.5
6" x 45"	2.00 CY	6.0	1.5	2.0	3.0	1.7
8" x 11-1/4"	1.00 CY	3.0	1.0	1.3	3.0	1.0
8" x 22-1/2"	1.50 CY	4.0	1.0	1.8	3.0	1.5
8" x 45"	2.50 CY	6.0	1.5	2.0	3.0	1.7



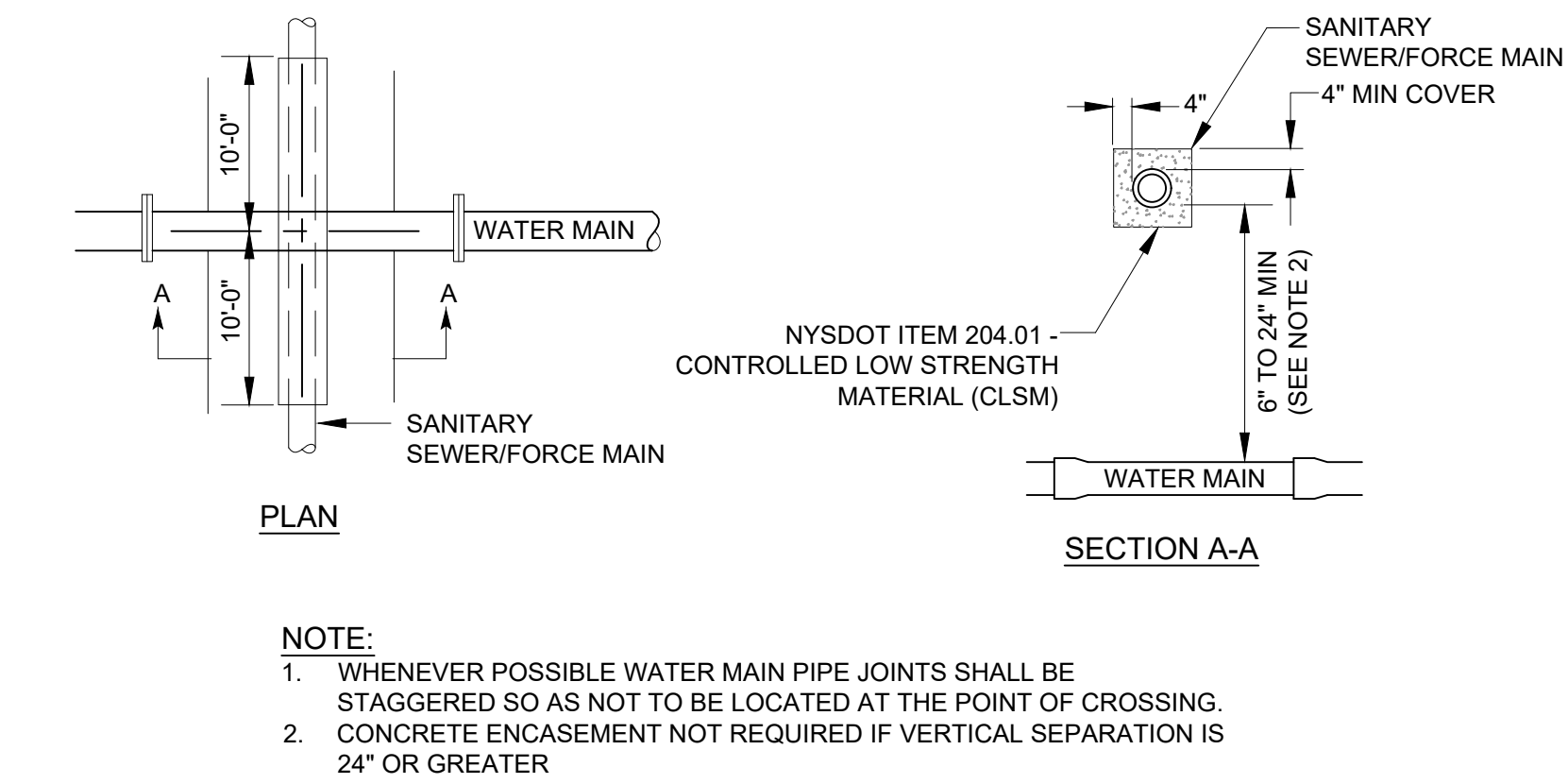
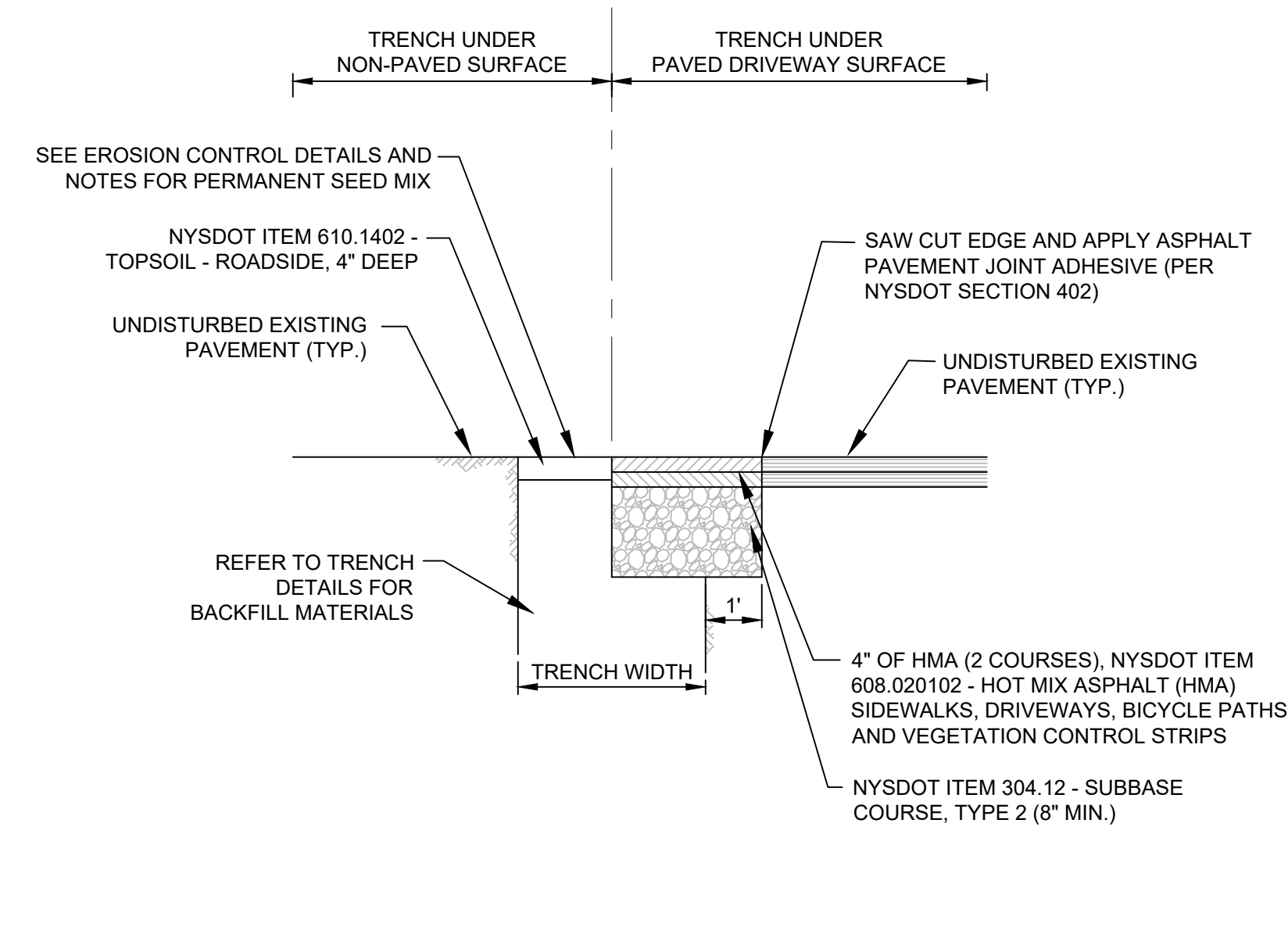
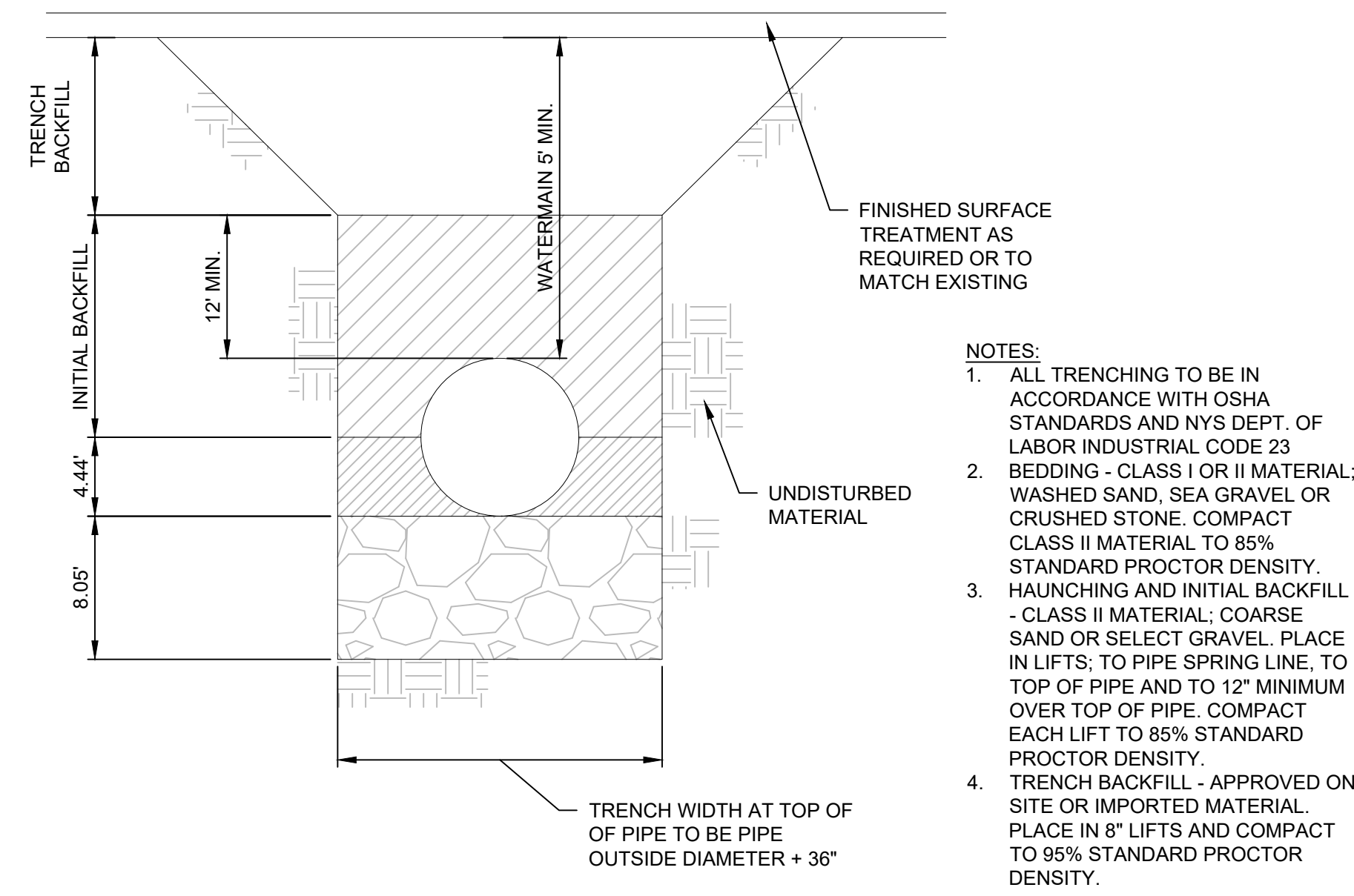
**REQUIRED BEARING AREAS & DIMENSIONS FOR CONCRETE THRUST BLOCKS (DIMENSIONS SHOWN IN FT)**

PIPE SIZE (IN)	TEE		90° BEND		45° BEND		22-1/2° BEND		11-1/4° BEND	
	AREA (SQFT)	DIM D X L	AREA (SQFT)	DIM D X L	AREA (SQFT)	DIM D X L	AREA (SQFT)	DIM D X L	AREA (SQFT)	DIM D X L
6	3.2	1.5 X 2.5	4.5	2.0 X 2.5	2.4	1.5 X 2.0	1.2	1.0 X 1.5	0.6	0.5 X 1.5
8	5.7	2.0 X 3.0	8	2.0 X 4.0	4.3	2.0 X 2.5	2.2	1.5 X 1.5	1.1	1.0 X 1.5
12	12.7	3.5 X 3.5	18.0	4.0 X 4.5	9.7	2.5 X 4.0	5.0	2.0 X 2.5	2.5	1.5 X 2.0

- NOTES:**
- CONCRETE FOR THRUST BLOCKS SHALL BE CONCRETE CLASS A (OR CLASS G IF UNDERWATER) IN ACCORDANCE WITH NYS DOT SECTION 501.
  - CONCRETE NOT TO OVERLAP ANY JOINT.
  - VALUES FOR TEE ALSO APPLY TO END PLUGS, CAPS, AND TAPPING SLEEVES
  - REQUIRED BEARING AREAS ARE DUE TO THRUSTS CAUSED BY 150 PSI WORKING PRESSURE PLUS 50% (75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE
  - REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 2000 POUNDS PER SQUARE FOOT FOR SAND. DUE TO OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS MAY BE MODIFIED BY THE ENGINEER BY MULTIPLYING THE AREA GIVEN IN THE TABLE FOR THE APPROPRIATE PIPE SIZE AND FITTING BY THE CORRECTION FACTORS LISTED BELOW.
- | SOIL                               | ALLOWABLE SOIL PRESSURE (LBS/SQFT) | CORRECTION FACTOR |
|------------------------------------|------------------------------------|-------------------|
| SOFT CLAY                          | 1,000                              | 2.00              |
| SAND                               | 2,000                              | 1.00              |
| SAND & GRAVEL                      | 3,000                              | 0.67              |
| SAND AND GRAVEL CEMENTED WITH CLAY | 4,000                              | 0.50              |
| HARD SHALE                         | 10,000                             | 0.20              |
- IN MUCK, PEAT, OR RECENTLY PLACED FILL ALL THRUST BLOCKS SHALL BE RESISTED BY PILES OF THE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS, ALL AS REQUIRED BY THE ENGINEER.

**VERTICAL THRUST BLOCK DETAILS**

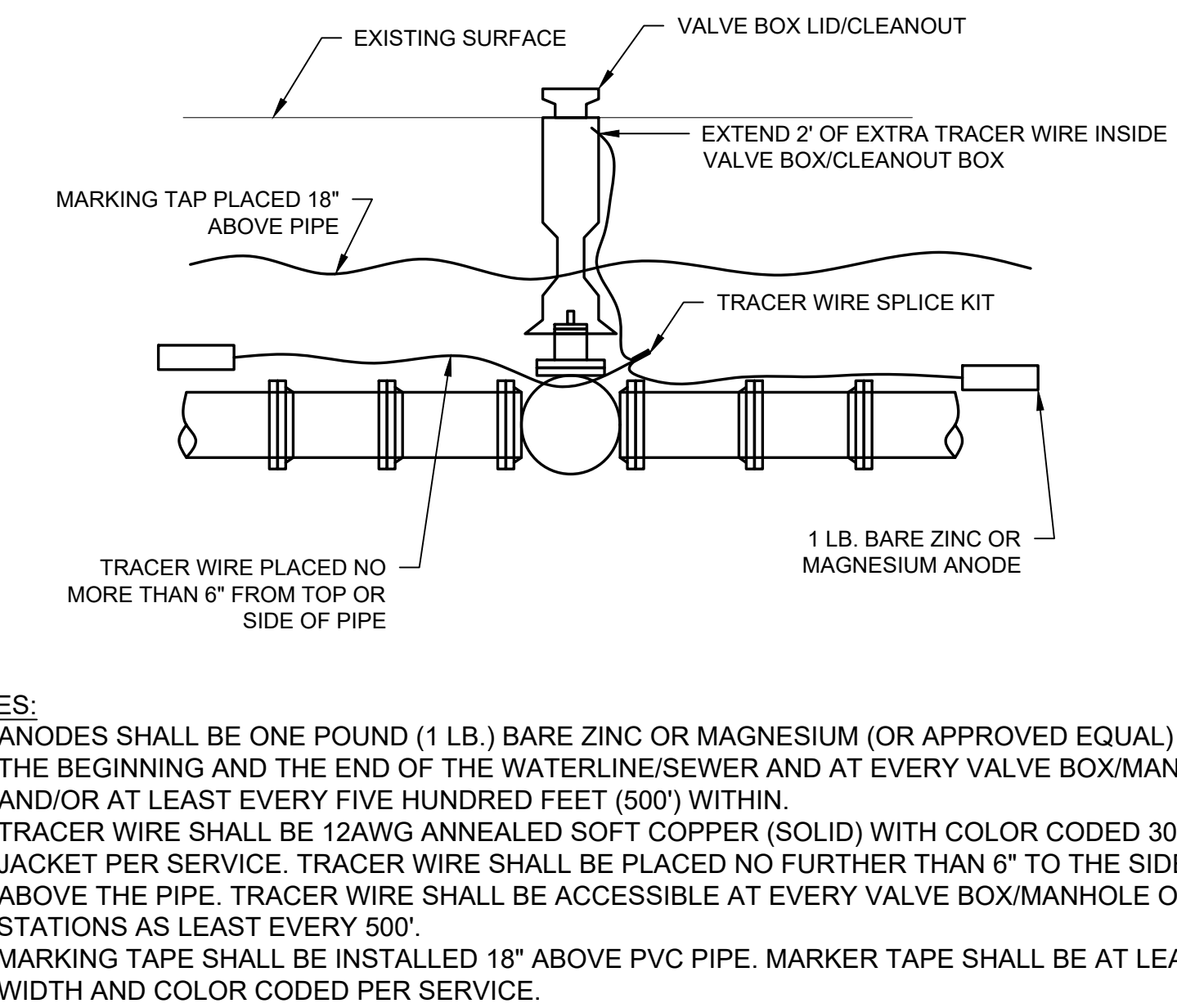
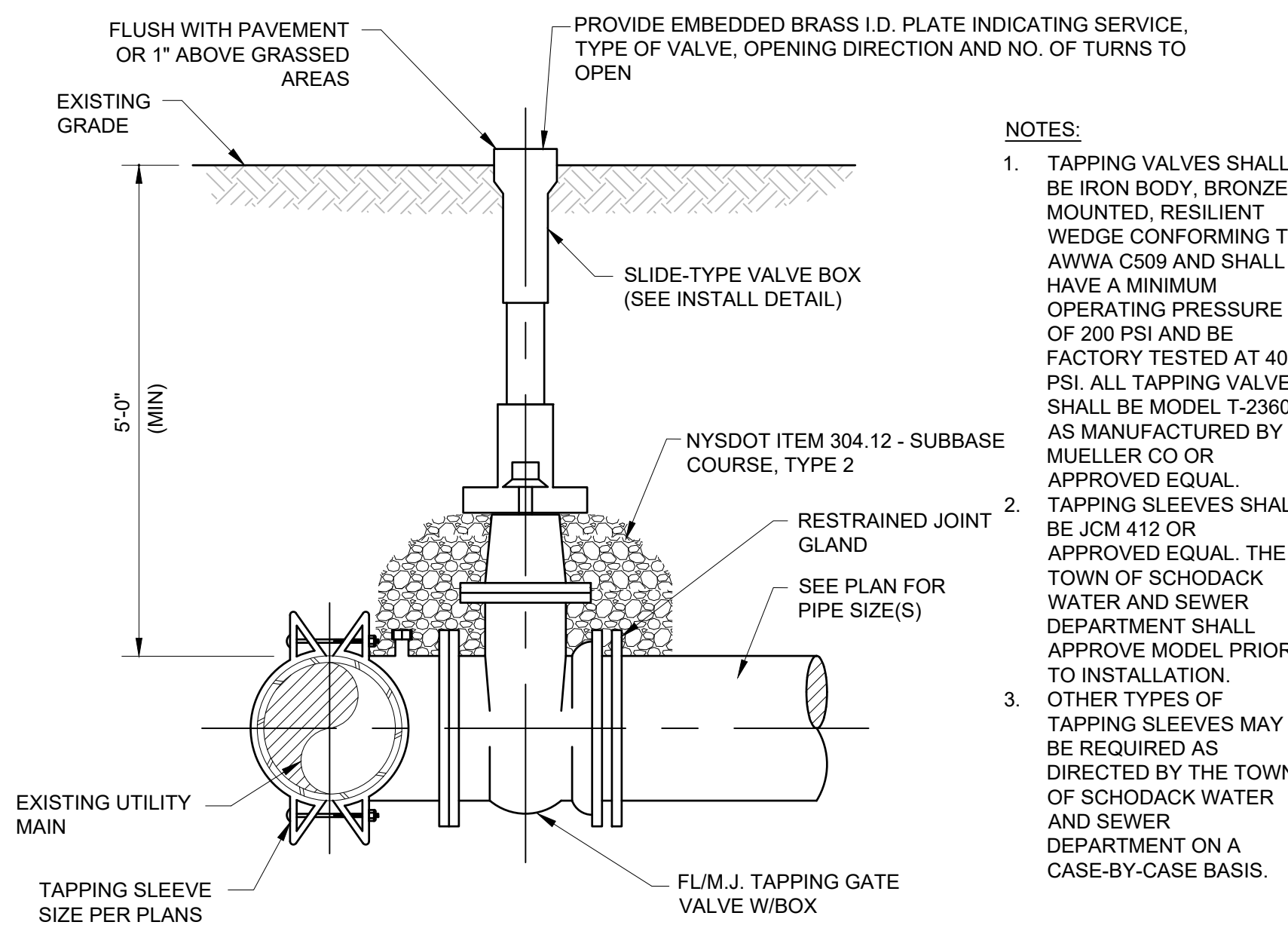
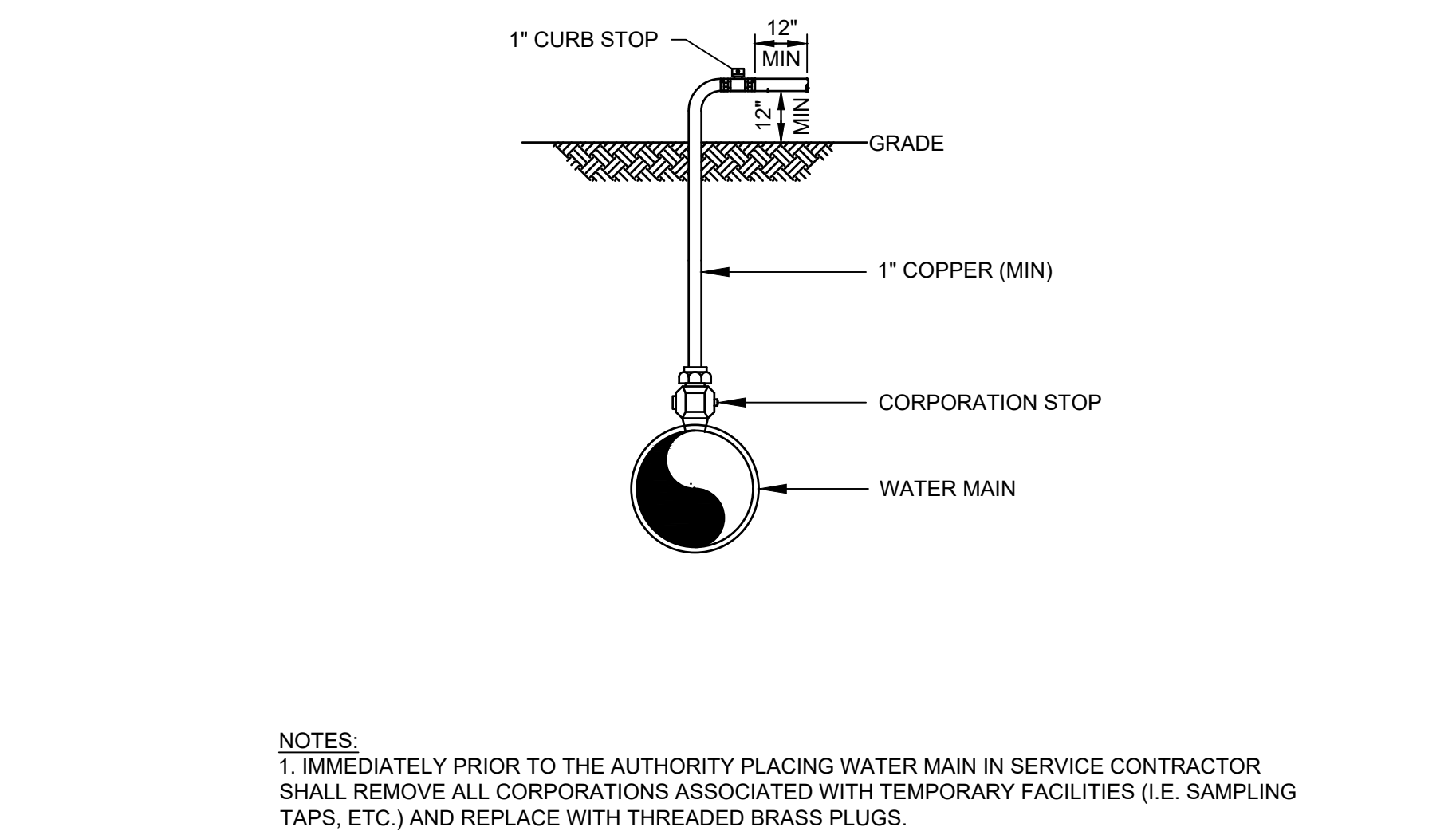
**HORIZONTAL THRUST BLOCK DETAILS**



**WATER MAIN TRENCH**

**TRENCH UNDER GRASS AND DRIVEWAY DETAIL**

**WATER MAIN/SEWER CROSSING DETAIL**



**DISINFECTION/BLOW-OFF/SAMPLING TAP**

**WET TAP DETAIL**

**WATERMAIN/SANITARY SEWER FORCE MAIN TRACER WIRE/MARKER TAPE DETAIL**



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PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

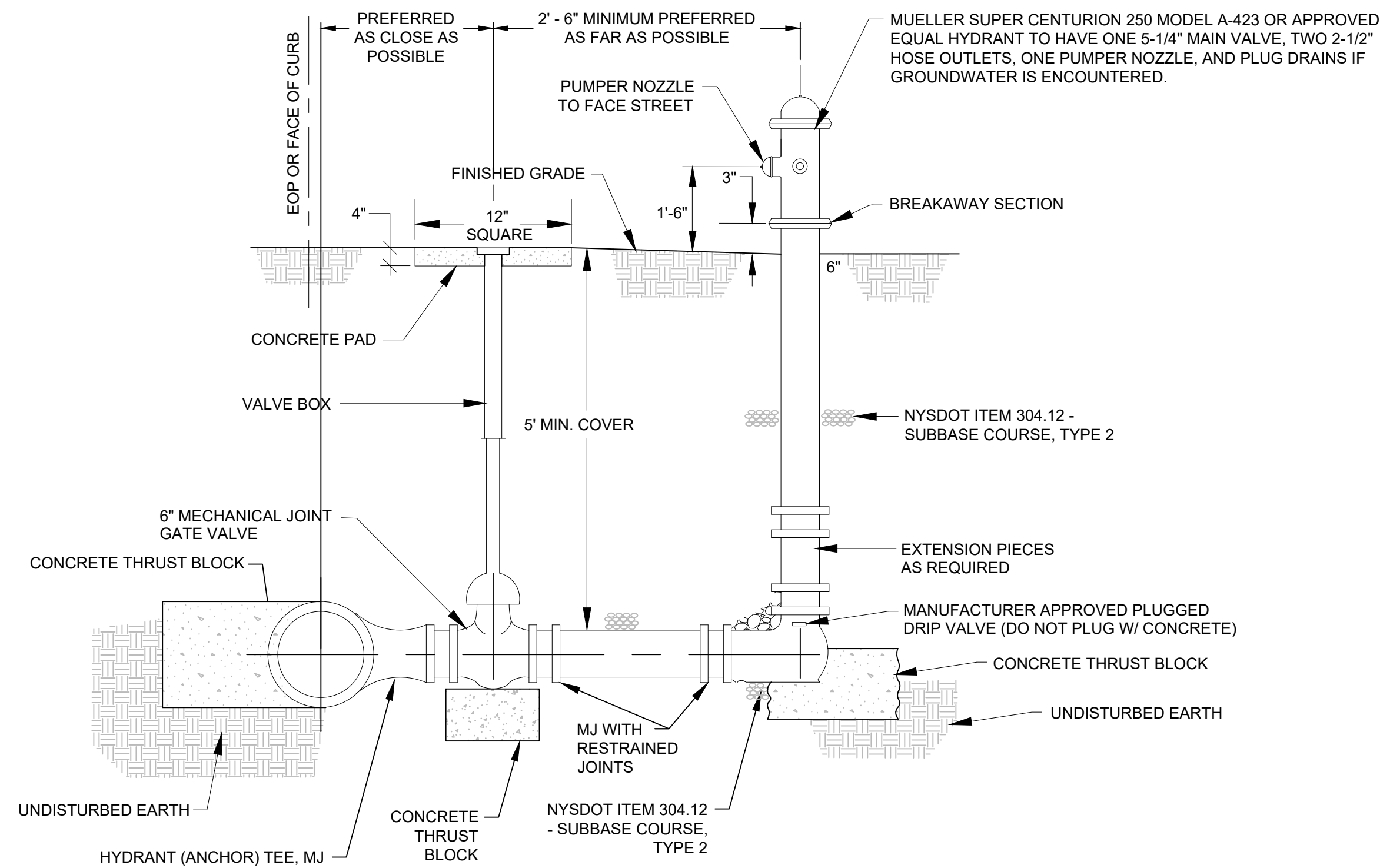
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**WATER DETAILS**

DRAWING NUMBER

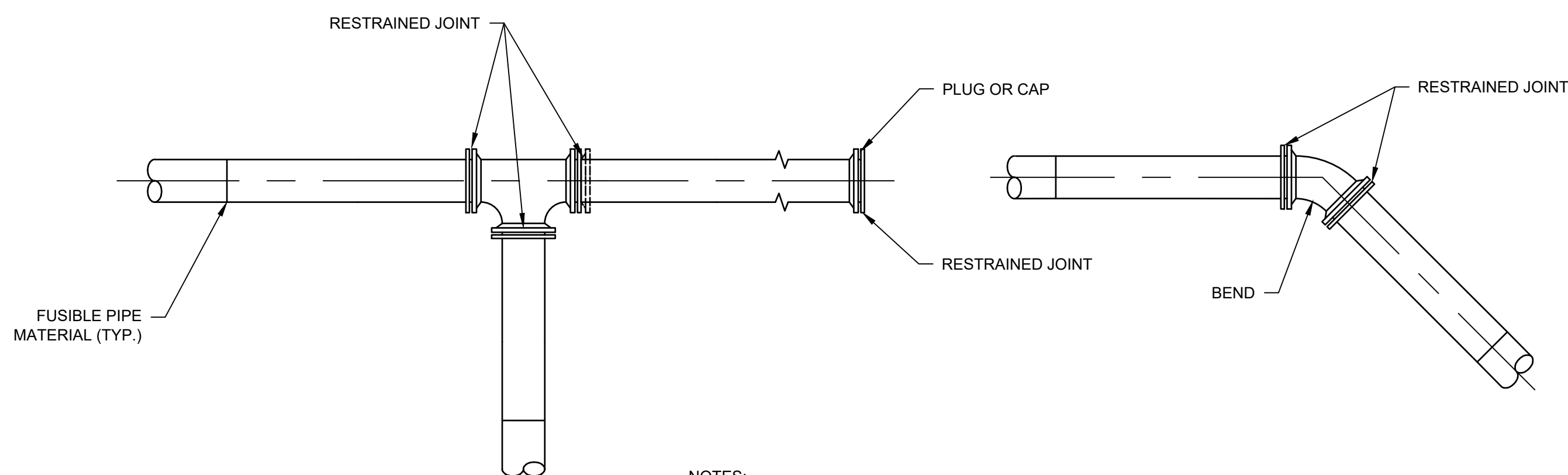
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**NOTES:**

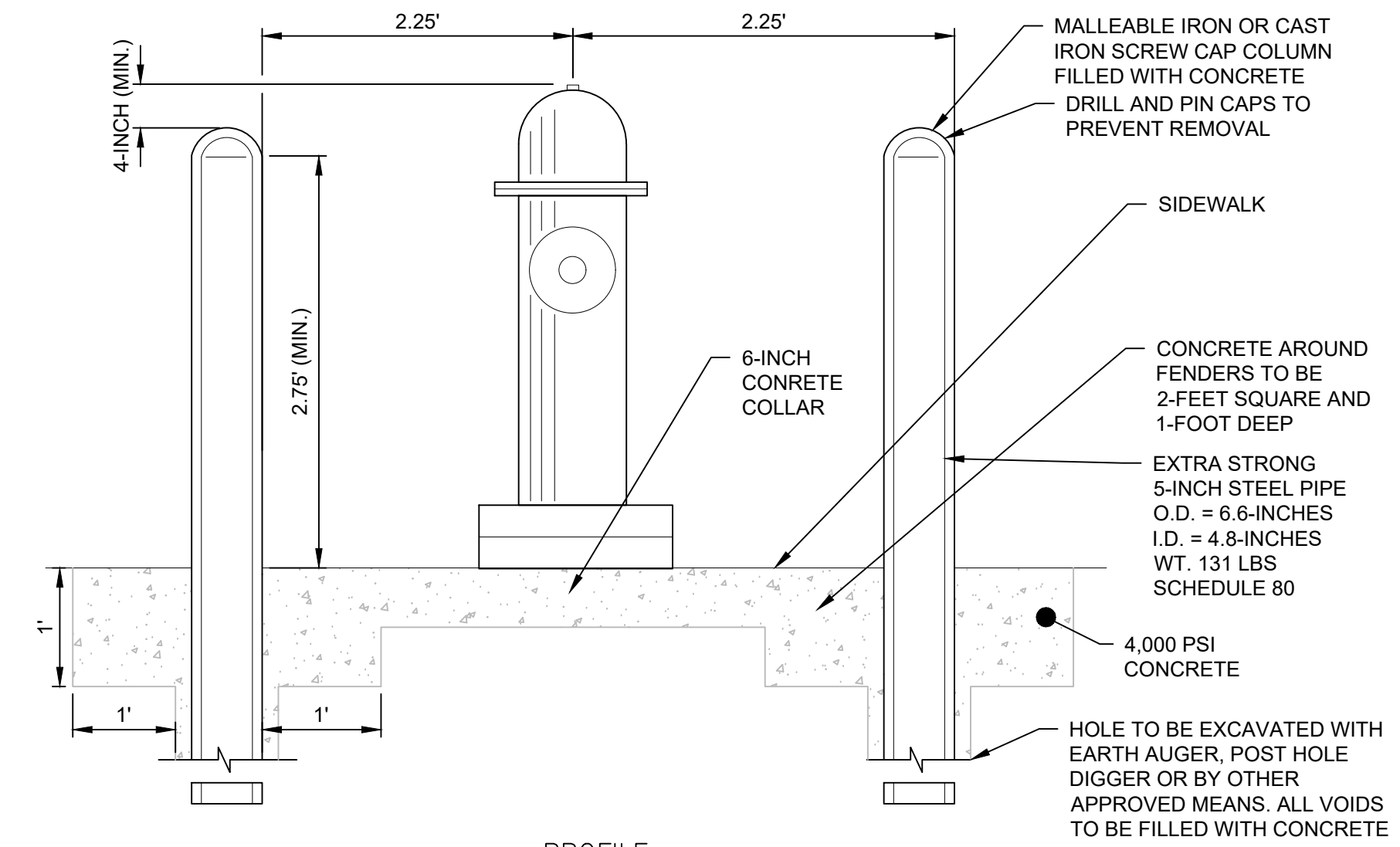
1. THE VALVE BOX SHALL BE INSTALLED PLUMB IN RELATION TO VALVE IN WHICH IT CONTROLS.
2. SIMILAR INSTALLATION FOR WATER AND FIRE PROTECTION MAINS.
3. VALVE COVER FOR FIRE PROTECTION MAINS SHALL READ "FIRE".
4. HYDRANT SHALL BE PAINTED RED FOR FIRE PROTECTION AND POTABLE USE AND BLACK FOR RAW WATER AND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

**FIRE HYDRANT ASSEMBLY**

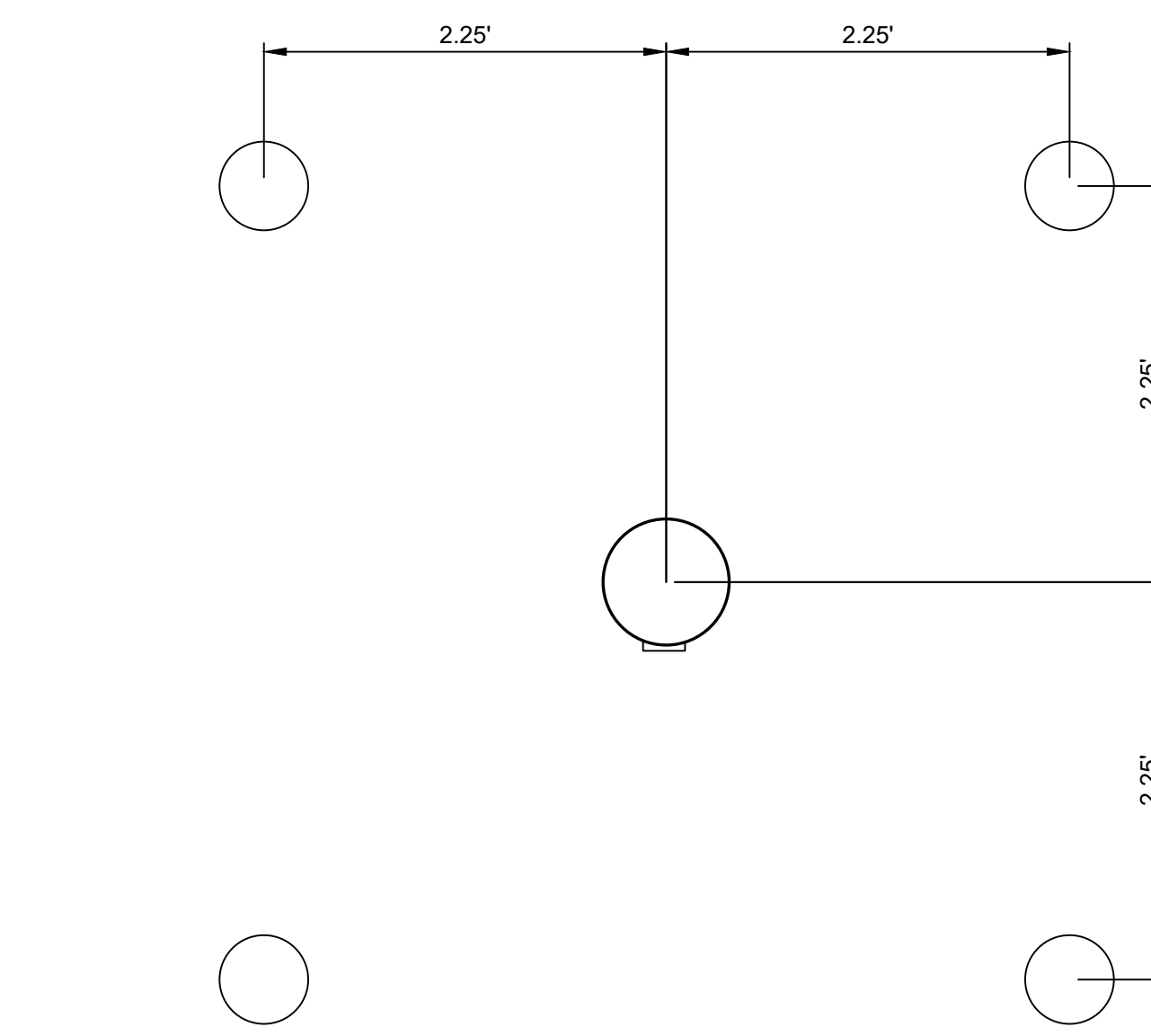


**NOTES:**

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

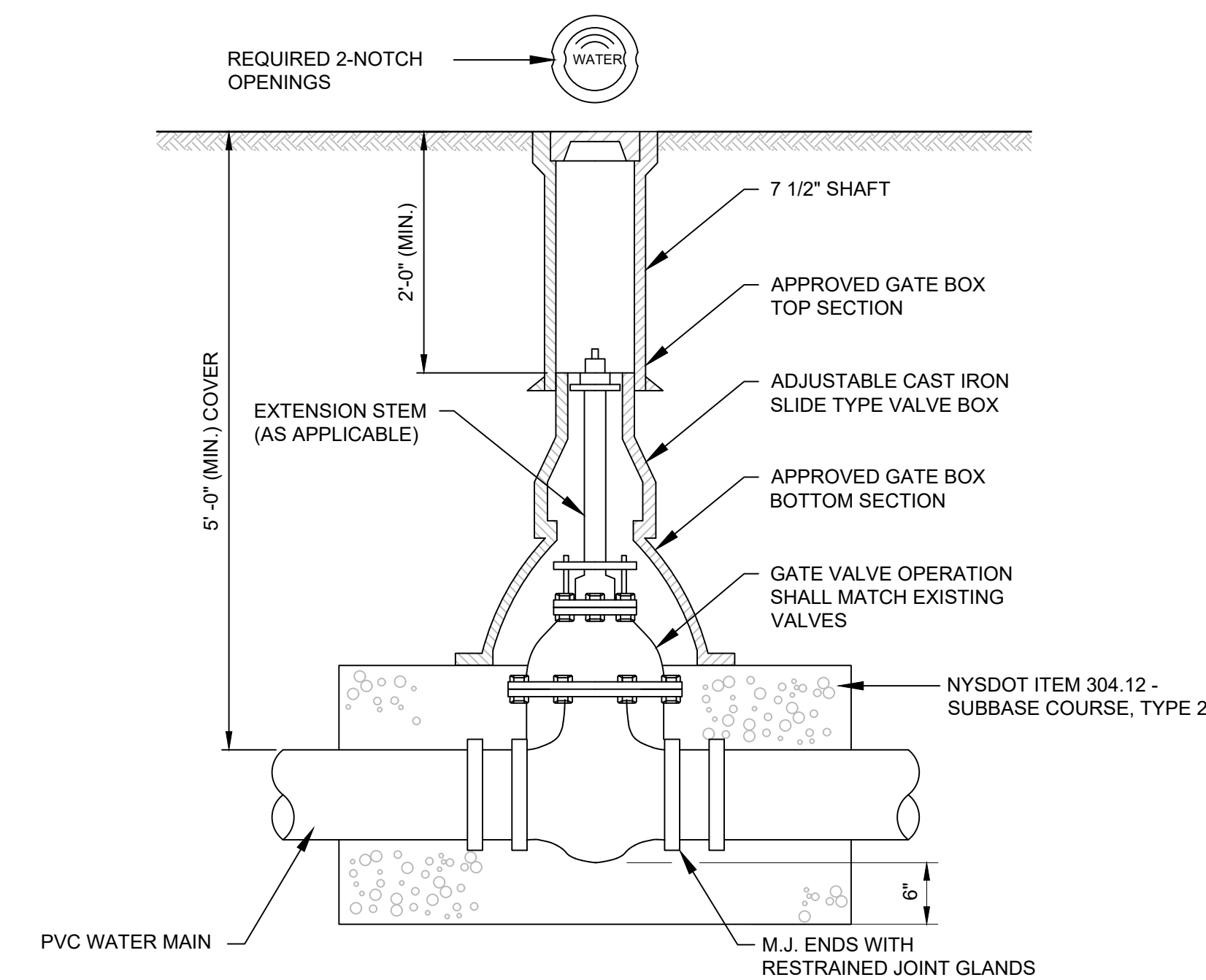


PROFILE



TYPICAL BOLLARD LAYOUT

**HYDRANT BOLLARDS**



**NOTE:**

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

**GATE VALVE DETAIL**



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PROJECT MILESTONE  
**PRELIMINARY PLANS**

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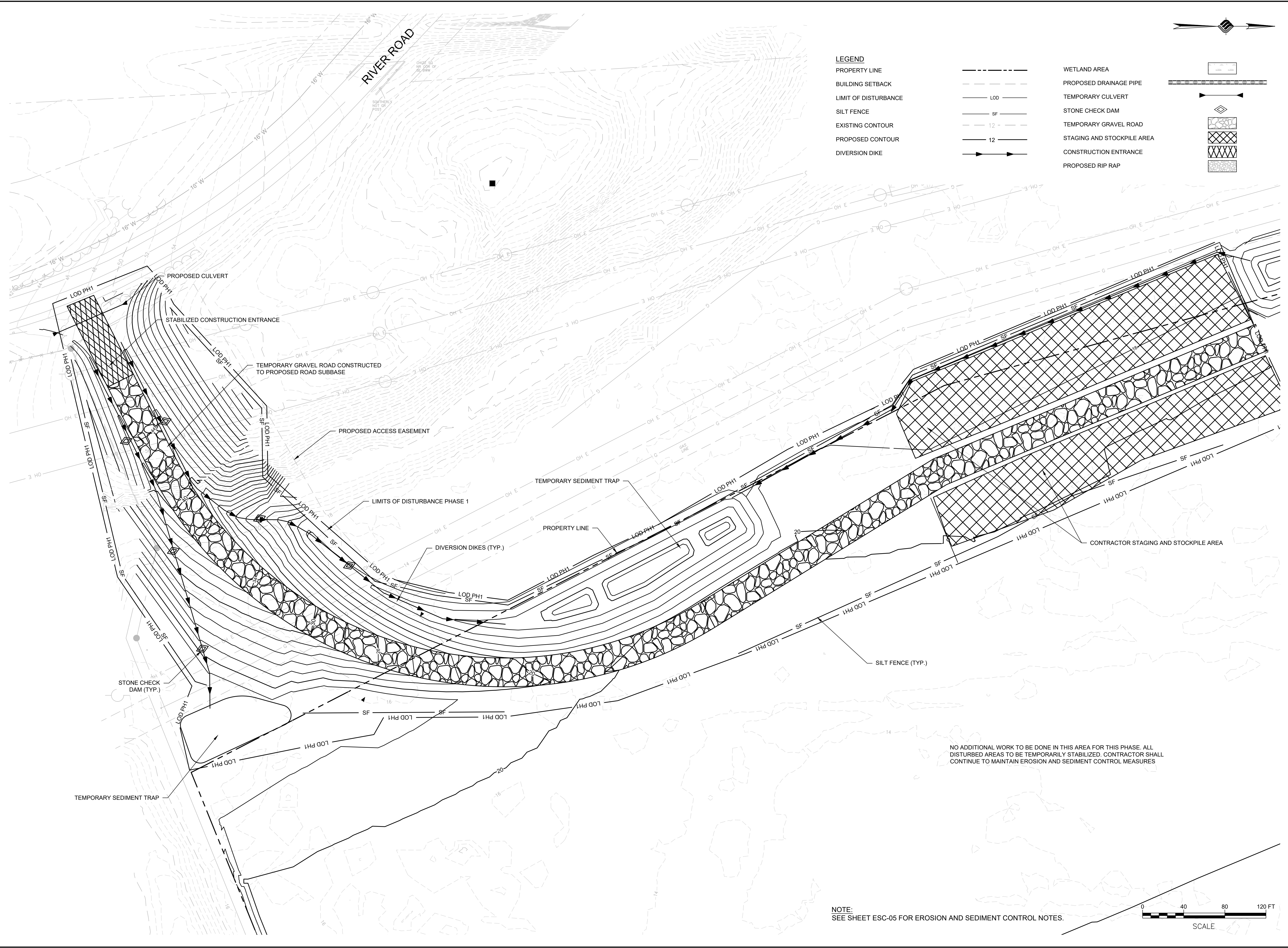
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DRAWING TITLE  
**EROSION & SEDIMENT CONTROL PLAN-PH.1**

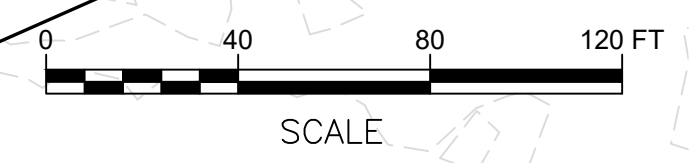
DRAWING NUMBER  
**ESC-01**



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

NO ADDITIONAL WORK TO BE DONE IN THIS AREA FOR THIS PHASE. ALL DISTURBED AREAS TO BE TEMPORARILY STABILIZED. CONTRACTOR SHALL CONTINUE TO MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES

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

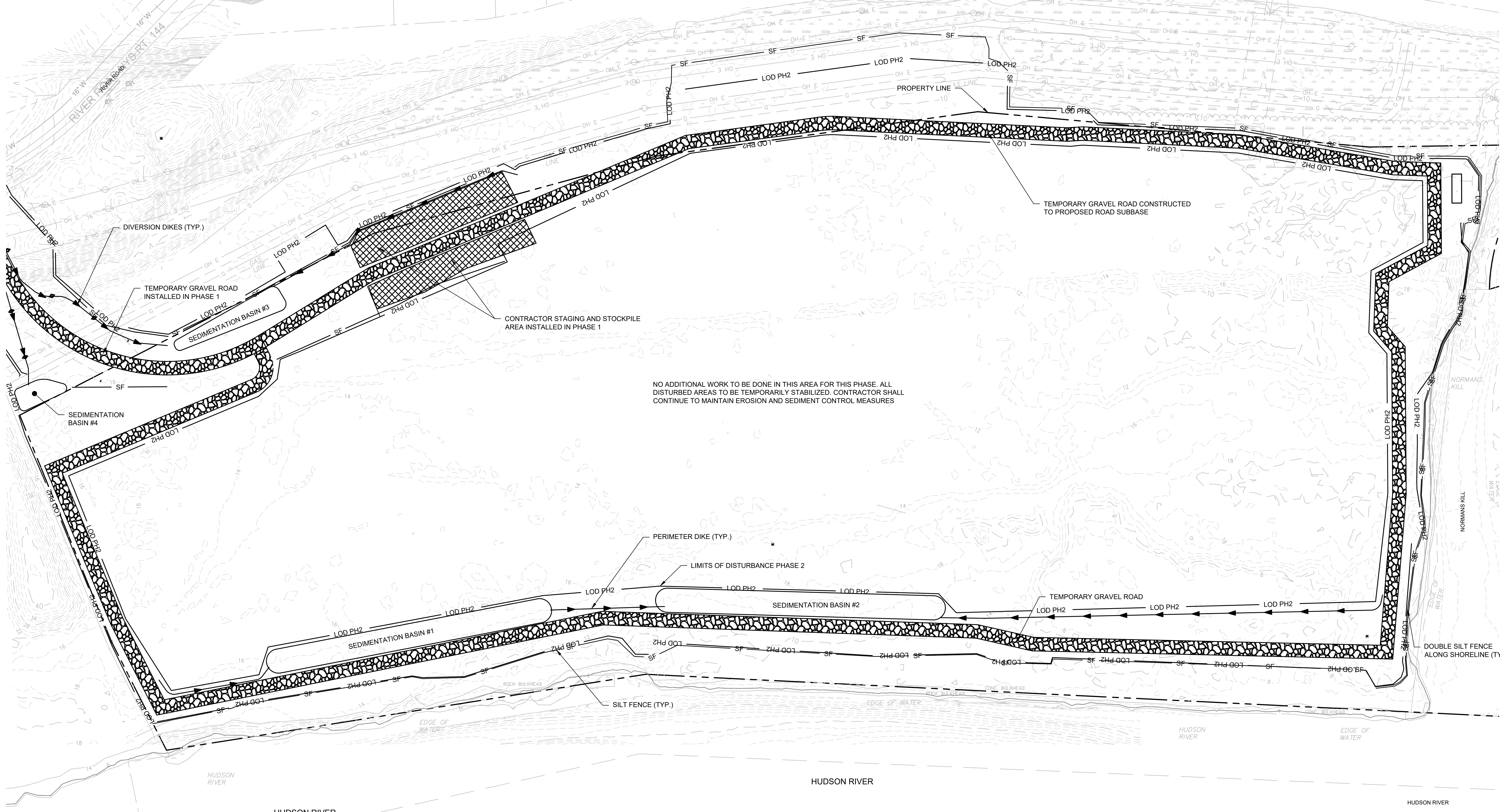
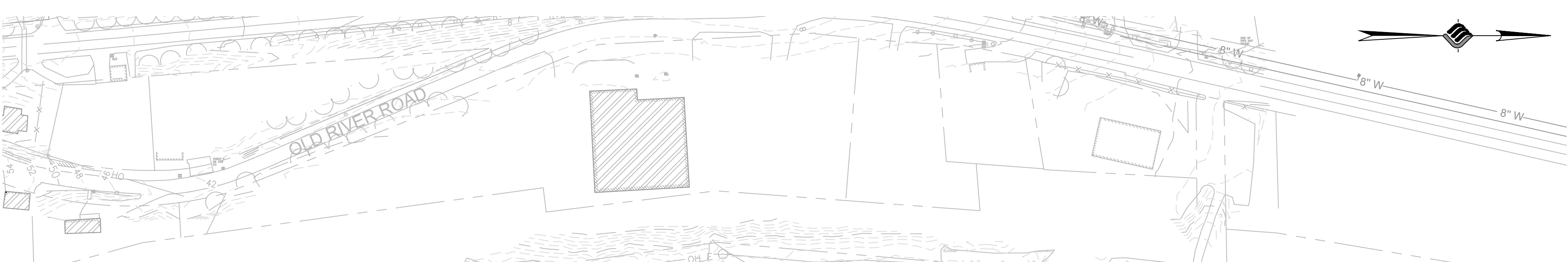
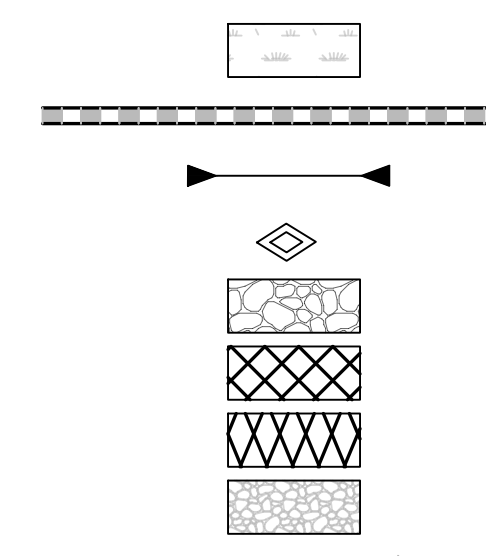


NUMBER OF ALBANY PORT DISTRICT COMMISSION DRAWINGS SHEET FILED IN THE PUBLIC RECORDS OFFICE



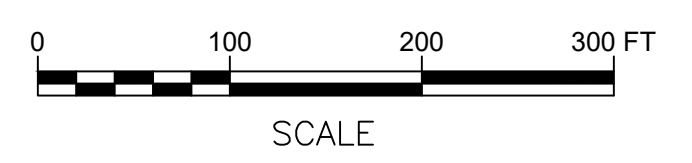
- LEGEND**
- PROPERTY LINE
  - BUILDING SETBACK
  - LIMIT OF DISTURBANCE
  - SILT FENCE
  - EXISTING CONTOUR
  - PROPOSED CONTOUR
  - DIVERSION DIKE

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



NO ADDITIONAL WORK TO BE DONE IN THIS AREA FOR THIS PHASE. ALL DISTURBED AREAS TO BE TEMPORARILY STABILIZED. CONTRACTOR SHALL CONTINUE TO MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES

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



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

PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT:  
**PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=100'
DATE	OCTOBER 2021
PROJECT	18641.00

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

DRAWING NUMBER  
**ESC-02**





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

PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

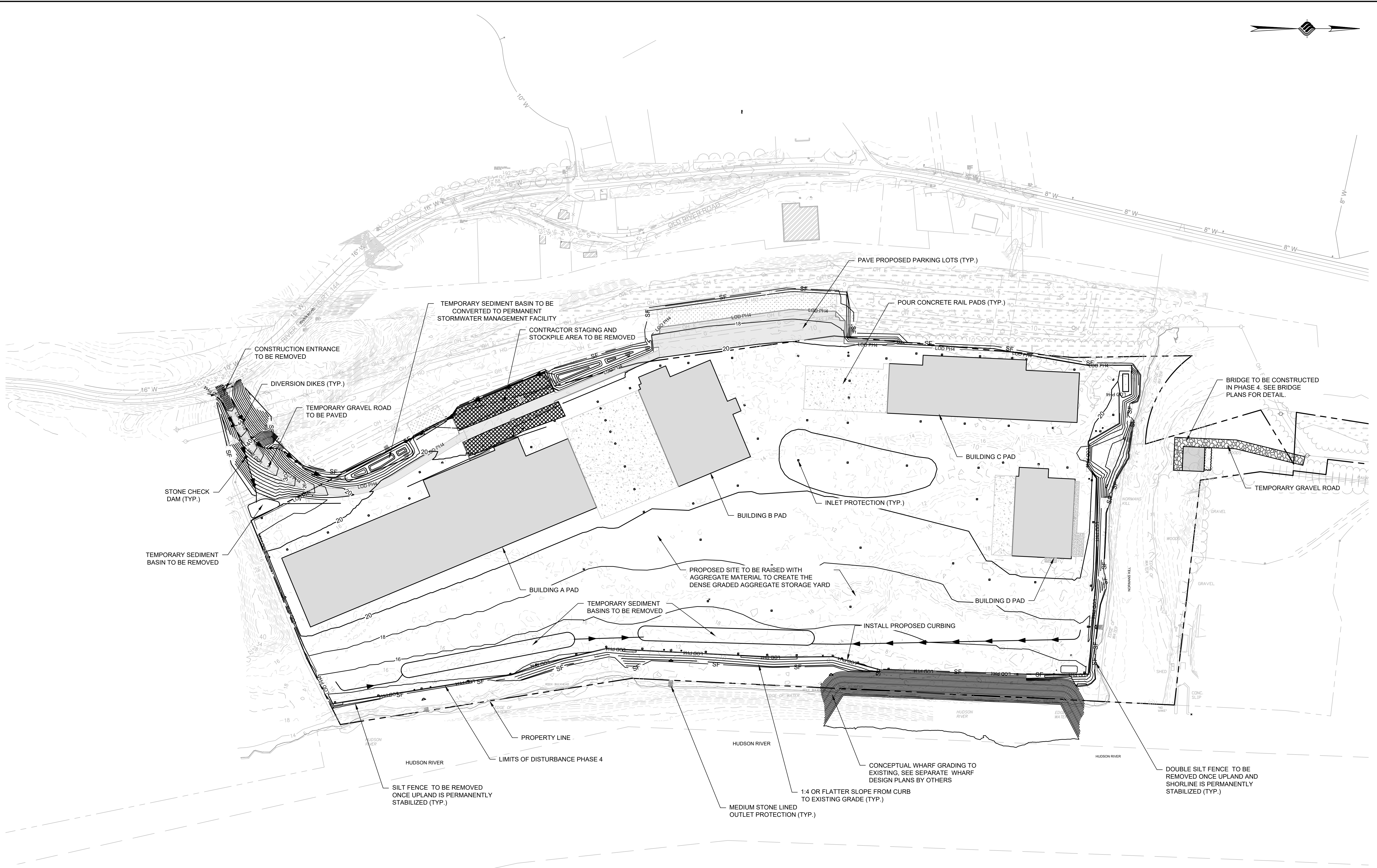
CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK  
 PROJECT: **PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS**

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	1"=150'
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**EROSION & SEDIMENT CONTROL PLAN-PH.4**

DRAWING NUMBER  
**ESC-04**



**LEGEND**

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

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



N:\18641\_00 ALBANY PORT DISTRICT COMMISSION\18641.00 ESC-04.DWG



**McFarland Johnson**

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SaratogaROM@mjinc.com

PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

CLIENT: <b>ALBANY PORT DISTRICT COMMISSION</b>	ALBANY, NEW YORK	PROJECT: <b>PORT OF ALBANY SITE INFRASTRUCTURE IMPROVEMENTS</b>
---	------------------	--

DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	N.T.S.
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**EROSION & SEDIMENT CONTROL NOTES**

DRAWING NUMBER  
**ESC-05**

MAINTENANCE:

A SIMPLE MAINTENANCE AGREEMENT SHOULD IDENTIFY WHERE SOIL RESTORATION IS APPLIED, WHERE NEWLY RESTORED AREAS ARE/CANNOT BE CLEARED, WHO THE RESPONSIBLE PARTIES ARE TO ENSURE THAT ROUTINE VEGETATION IMPROVEMENTS ARE MADE (I.E., THINNING, INVASIVE PLANT REMOVAL, ETC.). SOIL COMPOST AMENDMENTS WITHIN A FILTER STRIP OR GRASS CHANNEL SHOULD BE LOCATED IN PUBLIC RIGHT OF WAY, OR WITHIN A DEDICATED STORMWATER OR DRAINAGE EASEMENT.

FIRST YEAR MAINTENANCE OPERATIONS INCLUDES:

- INITIAL INSPECTIONS FOR THE FIRST SIX MONTHS (ONCE AFTER EACH STORM GREATER THAN HALF-INCH)
- RESEEDING TO REPAIR BARE OR ERODING AREAS TO ASSURE GRASS STABILIZATION
- WATER ONCE EVERY THREE DAYS FOR FIRST MONTH, AND THEN PROVIDE A HALF INCH OF WATER PER WEEK DURING FIRST YEAR. IRRIGATION PLAN MAY BE ADJUSTED ACCORDING TO THE RAIN EVENT.
- FERTILIZATION MAY BE NEEDED IN THE FALL AFTER THE FIRST GROWING SEASON TO INCREASE PLANT VIGOR.

ONGOING MAINTENANCE:

TWO POINTS HELP ENSURE LASTING RESULTS OF DECOMPACTION:

- PLANTING THE APPROPRIATE GROUND COVER WITH DEEP ROOTS TO MAINTAIN SOIL STRUCTURE.
- KEEPING THE SITE FREE OF VEHICULAR AND FOOT TRAFFIC OR OTHER WEIGHT LOADS. CONSIDER PEDESTRIAN FOOTPATHS. (SOMETIMES IT MAY BE NECESSARY TO DE-THATCH THE TURF EVERY FEW YEARS).

EROSION AND SEDIMENT CONTROL SEQUENCE:

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

PHASE I:

- INSTALL CONSTRUCTION ENTRANCE ROADS
- ESTABLISH THE PROJECT CONSTRUCTION STAGING/OFFICE AREA
- USE ANY ACCESS ROAD CUT MATERIAL AS FILL FOR THE CONSTRUCTION STAGING AREA
- TEMPORARILY STABILIZE ALL DISTURBED AREAS
- INSTALL SILT FENCE DOWNSTREAM OF ALL DISTURBED AREAS
- STABILIZE THE CONSTRUCTION ACCESS ROAD DISTURBANCE AREA PRIOR TO PROGRESSING TO PHASE II

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

PHASE III:

- SITE TO BE CLEARED AND GRUBBED
- BALANCE CUT AND FILLS IN THE SITE
- COMPACT/IMPROVE EXISTING GROUND CONDITIONS ACCORDING TO GEOTECHNICAL REPORT
- IMPORT MATERIAL TO RAISE THE SITE TO PROPOSED SUBGRADE ELEVATIONS
- ESTABLISH BUILDING FOOTPRINTS AND INITIATION BUILDING FOUNDATION CONSTRUCTION
- INSTALL STORM SEWER SYSTEM WITH INLET PROTECTION FOR DRAINAGE STRUCTURES AND STONE LINING OUTLET PROTECTION
- INSTALL SITE UTILITIES
- STABILIZE ALL DISTURBED AREAS BEFORE PROGRESSING INTO PHASE IV

PHASE IV:

- CONVERT TEMPORARY SEDIMENT BASINS TO PERMANENT STORMWATER MANAGEMENT FACILITIES
- POUR ALL PROPOSED CONCRETE RAIL PADS AND SIDEWALKS
- INSTALL PROPOSED CONCRETE CURBING
- PAVE PARKING LOT AREAS
- REMOVE CONSTRUCTION STAGING AREA
- FINAL STABILIZATION FOR EMBANKMENT SLOPES ALONG THE NORMANS KILL AND HUDSON RIVER

TEMPORARY SEEDING:

- 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.
- NOTE: NO FERTILIZER SHOULD BE USED AFTER OCTOBER 1ST IF THERE IS DANGER OF LEACHING INTO WATER RESOURCE.
- IMMEDIATELY SEED PER SEED SCHEDULE SPECIFIED ON LANDSCAPE PLAN.
- APPLY STRAW MULCH AS NECESSARY TO HOLD IN MOISTURE. PROTECT SOIL FROM EROSION, HOLD SEED IN PLACE, AND KEEP SOIL TEMPERATURES MORE CONSTANT; 2 TONS PER ACRE.

SOIL RESTORATION NOTES:

SOIL RESTORATION PROCEDURE:

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

- APPLY 3 INCHES OF COMPOST OVER SUBSOIL
- 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
- ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE
- APPLY TOPSOIL TO A DEPTH OF 6 INCHES
- VEGETATE AS REQUIRED BY APPROVED PLAN.

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

COMPOST SPECIFICATIONS:

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

EROSION AND SEDIMENT CONTROL PLAN NOTES:

- 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.
- 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.
- REMOVE AND STOCKPILE TOPSOIL IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS ARE TO BE HYDROSEEDDED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS.
- 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.
- CONTRACTOR SHALL MAINTAIN A STOCK PILE OF EROSION AND SEDIMENT CONTROL MEASURES ON SITE AS INDICATED ON THE PLAN.
- 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.
- WRAP YARD INLET GRATES IN FILTER FABRIC PROGRESSIVELY AS STORM SEWER AND YARD INLETS ARE INSTALLED.
- 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.
- 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.
- 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.
- ALL RIP-RAP OUTLET PROTECTION TO BE CONSTRUCTED PER NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- CONTRACTOR SHALL TAKE THE NECESSARY MEASURES, INCLUDING WATER SPRINKLING, TO PROVIDE DUST CONTROL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL FEATURES THROUGHOUT THE DURATION OF CONSTRUCTION.
  - 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.
  - ALL SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE AND STRAW BALES WHEN IT ACCUMULATES TO A MAXIMUM HEIGHT OF 6".
  - AFTER VEGETATION HAS BEEN SUBSTANTIALLY ESTABLISHED, EXCAVATE SWALES OF ACCUMULATED SILT. RE-ESTABLISHED VEGETATION ON DISTURBED AREAS.
  - SEDIMENT COLLECTED BY EROSION CONTROL MEASURES SHALL BE DISPOSED OF BY SPREADING ON-SITE OR HAULED AWAY IF DETERMINED TO BE UNSUITABLE FOR FILL.
- ALL DISTURBED AREAS SHALL BE STABILIZED, SEEDDED AND MULCHED WITHIN 7 DAYS OF CEASED CONSTRUCTION ACTIVITY.
- TOTAL PROJECT DISTURBANCE AREA PER THE NYSDEC SPDES STANDARDS IS 79 ACRES.
- 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:

- IF SOILS ARE COMPACTED, SCARIFY UPPER TWO INCHES BY BACKBLADING WITH DOZER, RAKING, OR DISKING.
- PLACE TOPSOIL TO A MINIMUM DEPTH OF 4 INCHES.
- SEED PER SCHEDULE SPECIFIED ON LANDSCAPE PLANS.
- 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.
- MULCH WITH CLEAN (WEED FREE) STRAW IF SPECIFIED ON PLANS.

PERMANENT SEEDING SLOPED AREAS:

- IF SOILS ARE COMPACTED, SCARIFY UPPER TWO INCHES BY BACKBLADING WITH DOZER, RAKING, OR DISKING.
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- IMMEDIATELY SEED PER SEED SCHEDULE SPECIFIED ON LANDSCAPE PLAN.
- PROVIDE JUTE MESH IF SPECIFIED ON PLANS OR MULCH WITH CLEAN (WEED FREE) STRAW.



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 P: 518-580-9380 F: 518-580-9383  
 SaratogaROM@mjinc.com

PROJECT MILESTONE  
**PRELIMINARY PLANS**

NO.	DATE	DESCRIPTION

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

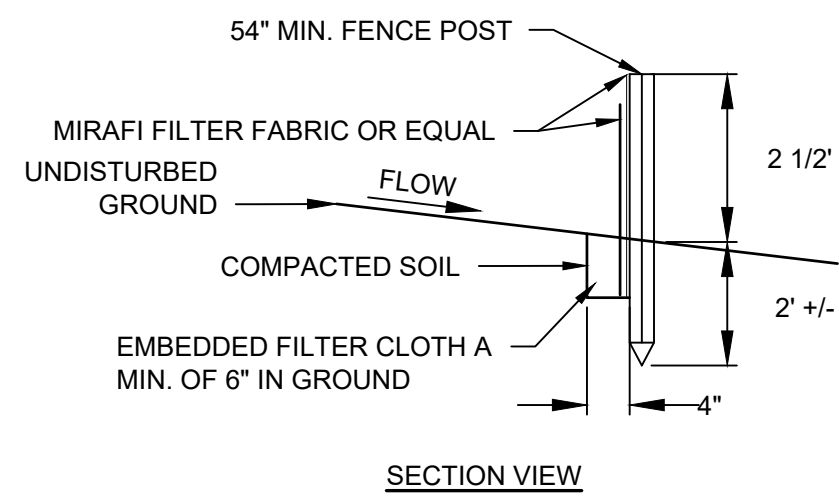
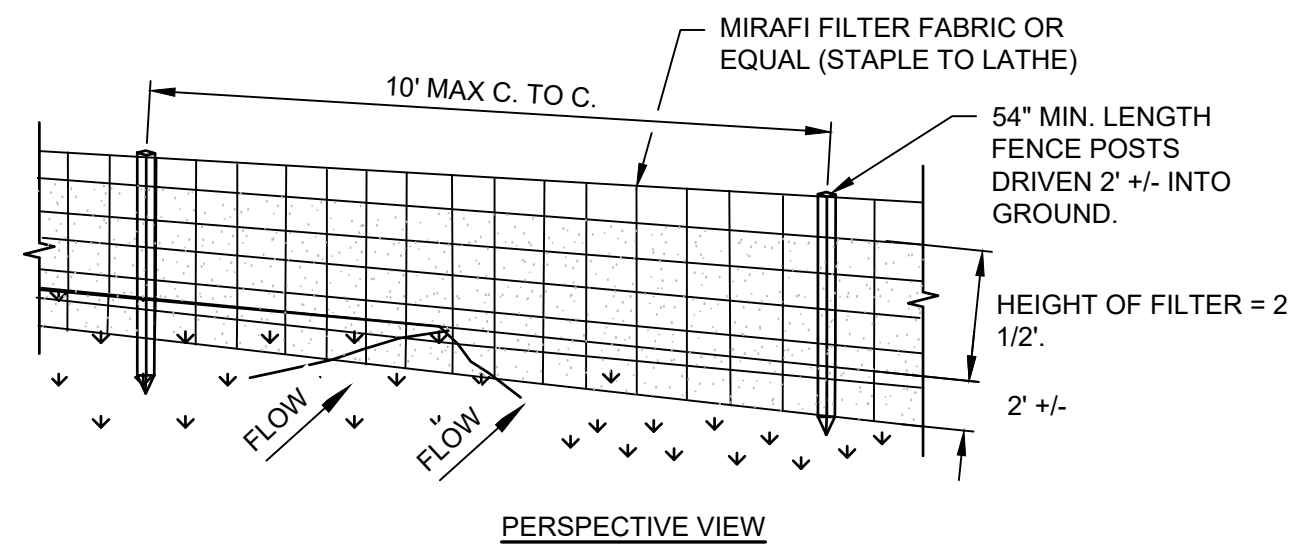
DRAWN	JES
DESIGNED	NSO
CHECKED	AJF
SCALE	N.T.S.
DATE	OCTOBER 2021
PROJECT	18641.00

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DRAWING TITLE  
**EROSION & SEDIMENT CONTROL DETAILS**

DRAWING NUMBER

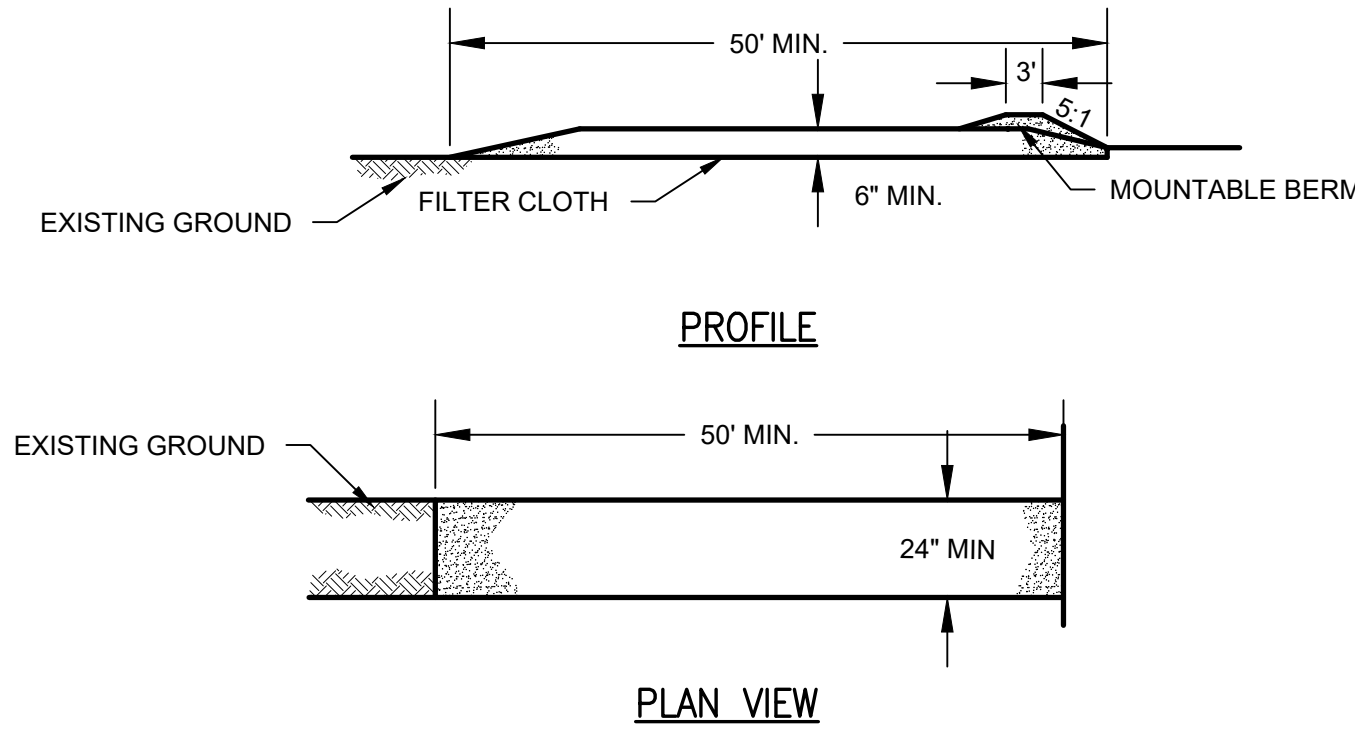
ESC-06



**NOTES:**

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

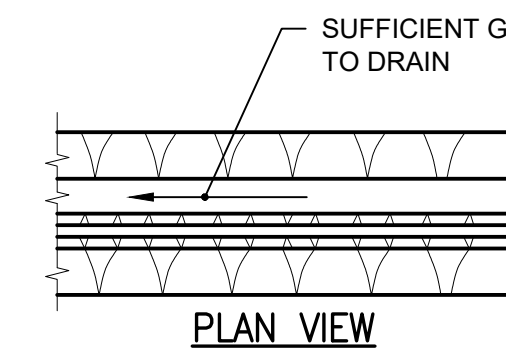
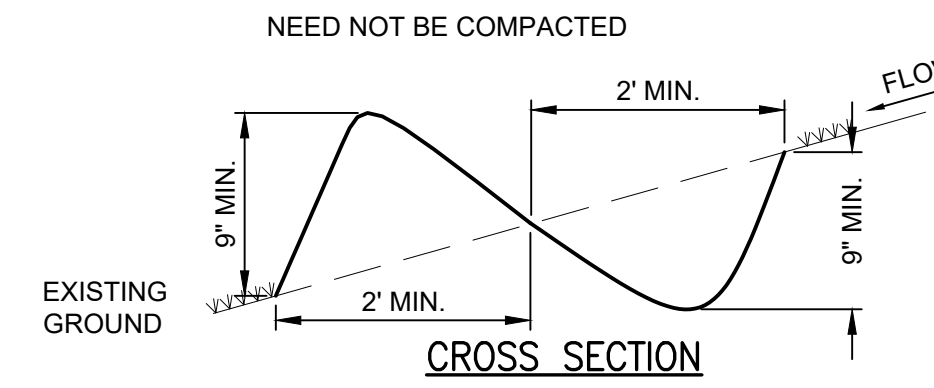
**SILT FENCE**



**NOTES:**

- STONE SIZE - USE #3 CRUSHED STONE OR GRAVEL (PER NYS DOT SECTION 209).
- LENGTH - NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

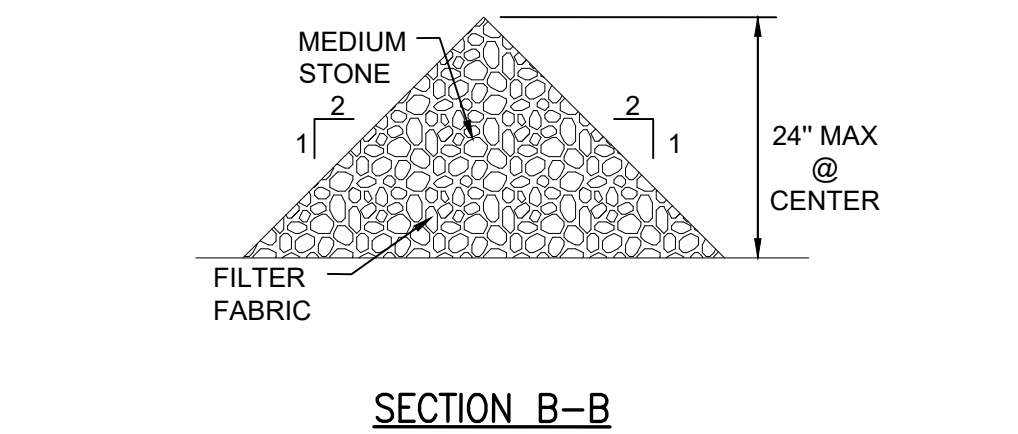
**STABILIZED CONSTRUCTION ENTRANCE**



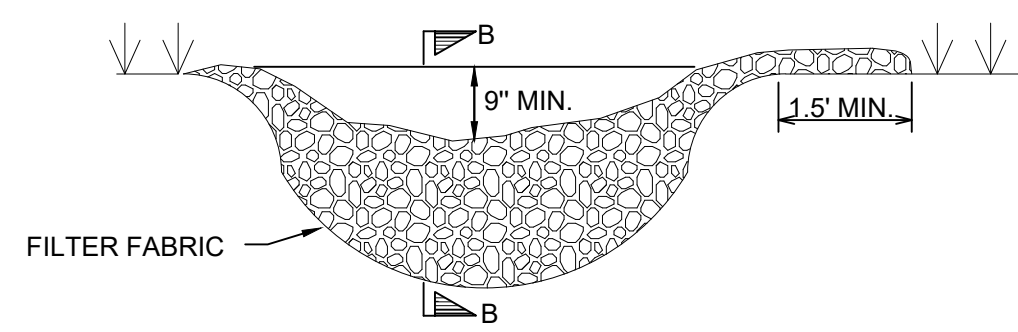
**NOTES:**

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

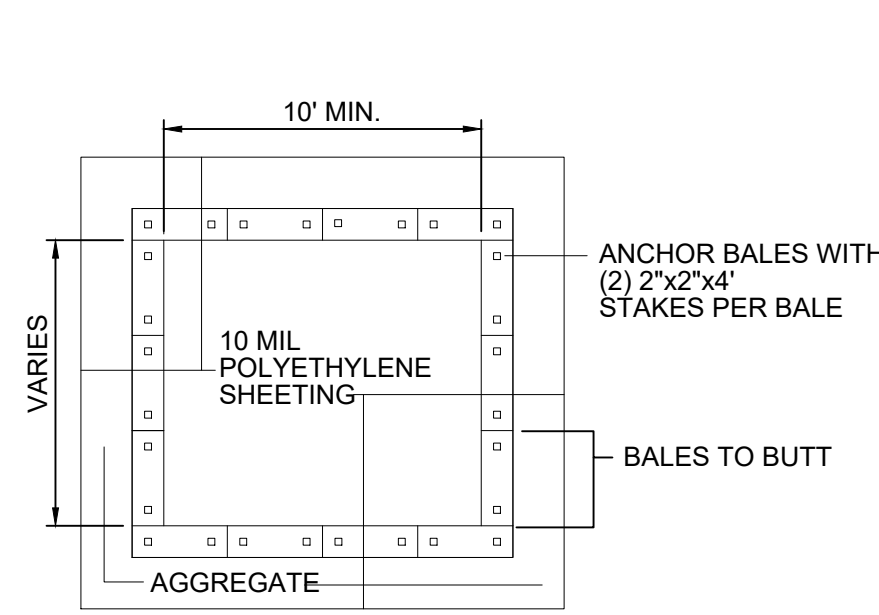
**PERIMETER DIKE**



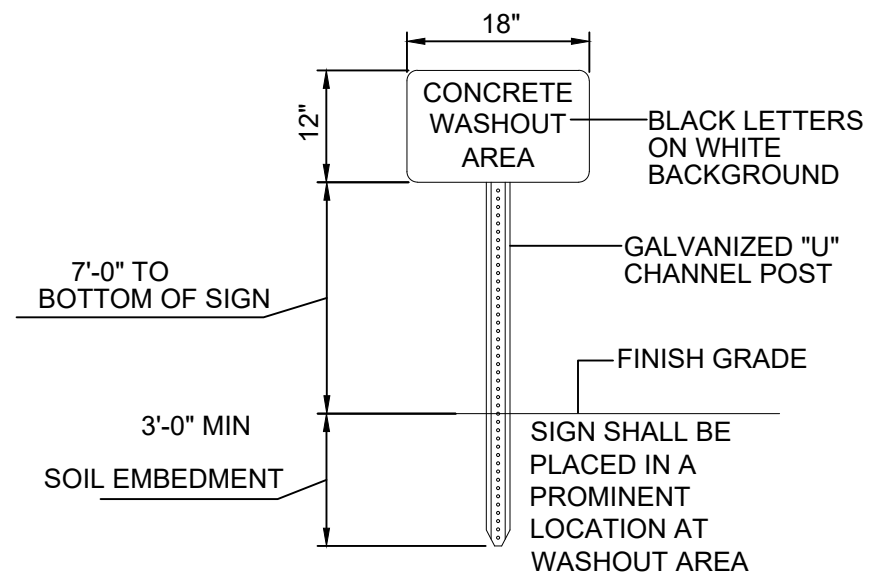
**SECTION B-B**



**SECTION A-A**



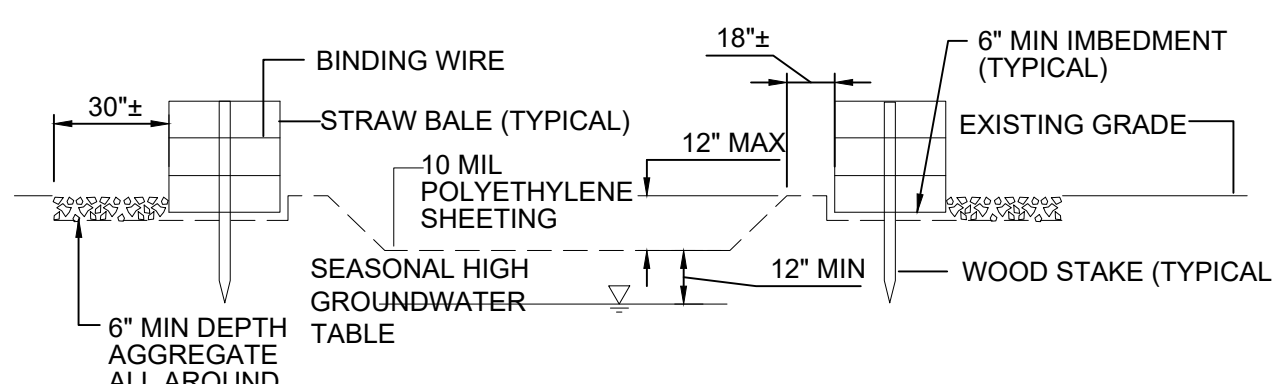
**PLAN**



**WASHOUT SIGN**

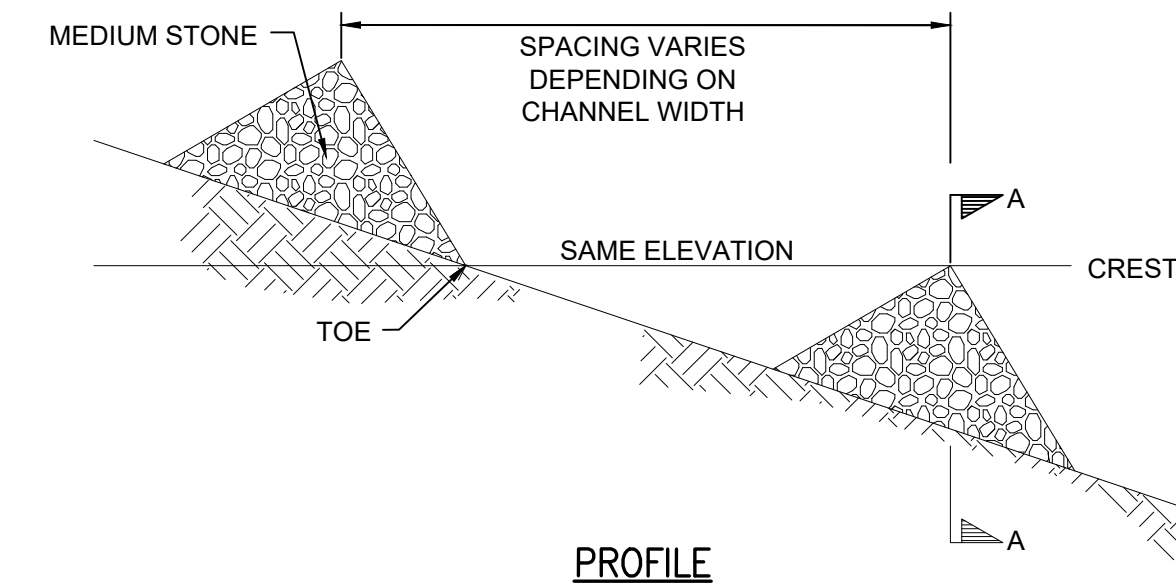
**NOTES:**

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



**TYPICAL SECTION**

**CONCRETE WASHOUT**

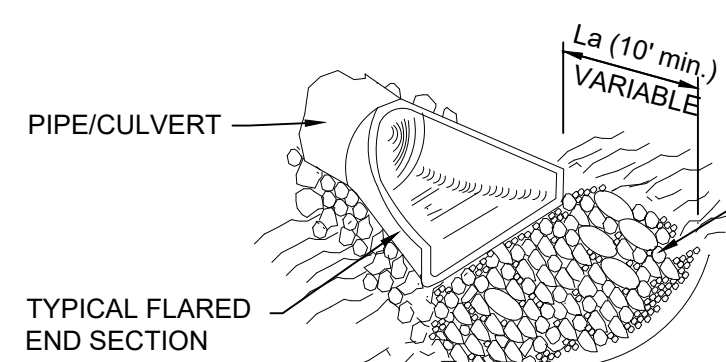


**PROFILE**

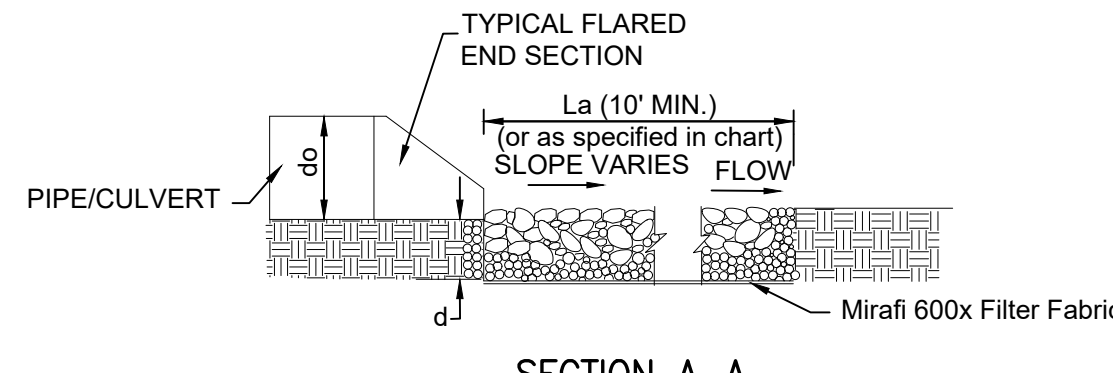
**CONSTRUCTION SPECIFICATIONS**

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

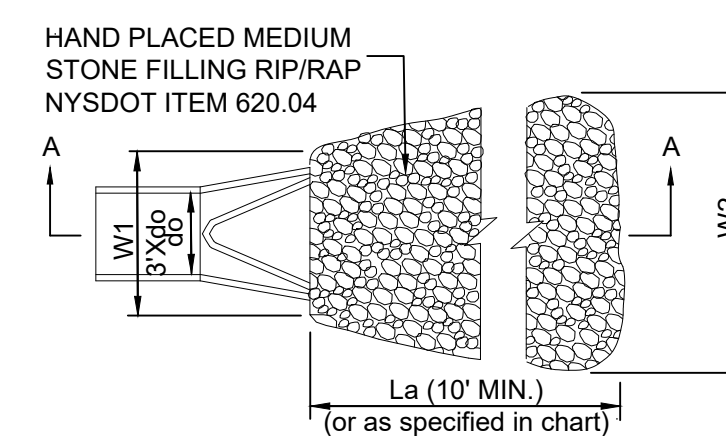
**LIGHT STONE CHECK DAM**



**ISOMETRIC VIEW**



**SECTION A-A**



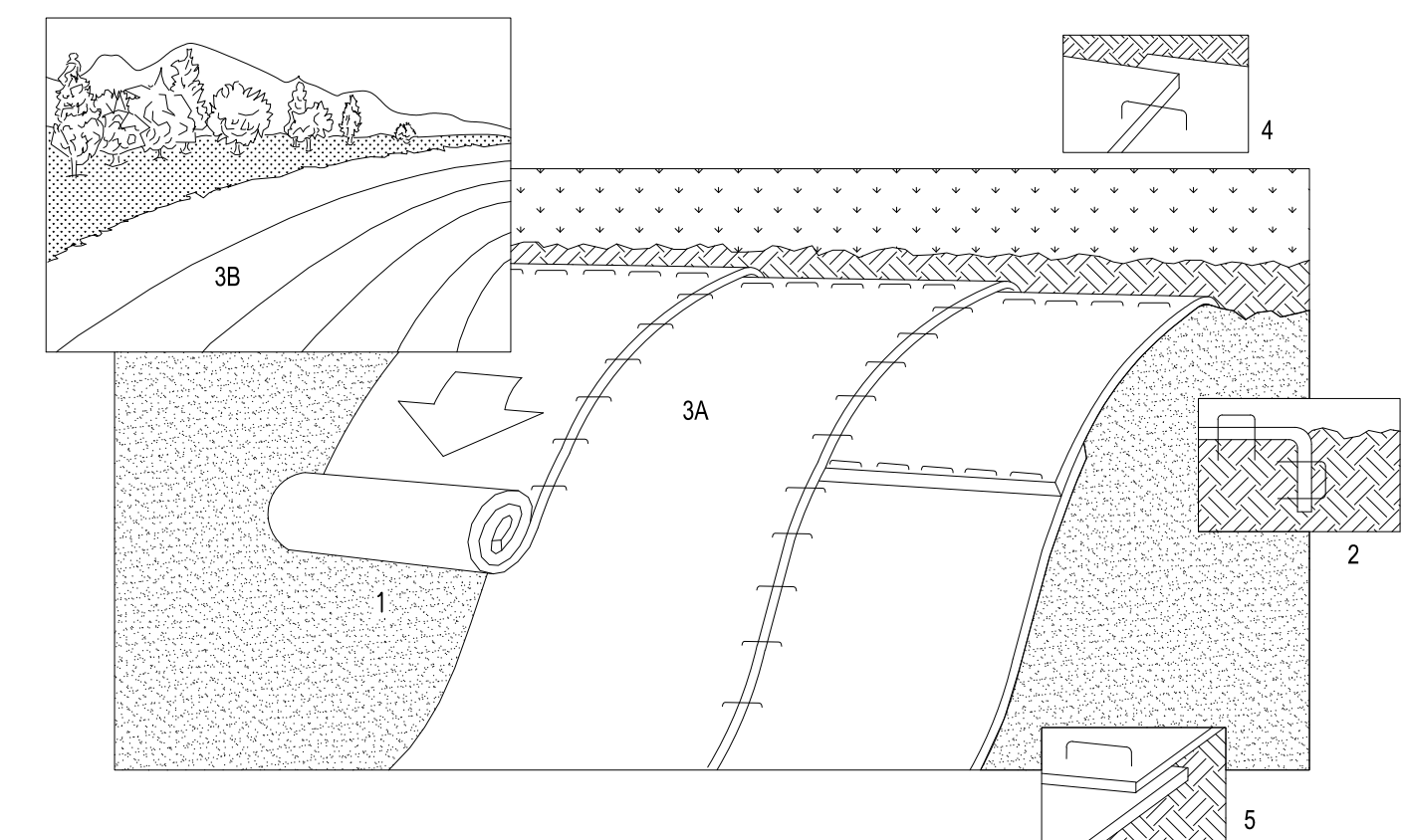
**PLAN**

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

**NOTES:**

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

**OUTLET PROTECTION - RIP RAP**



**NOTES:**

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

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

**EROSION CONTROL MAT INSTALLATION**

