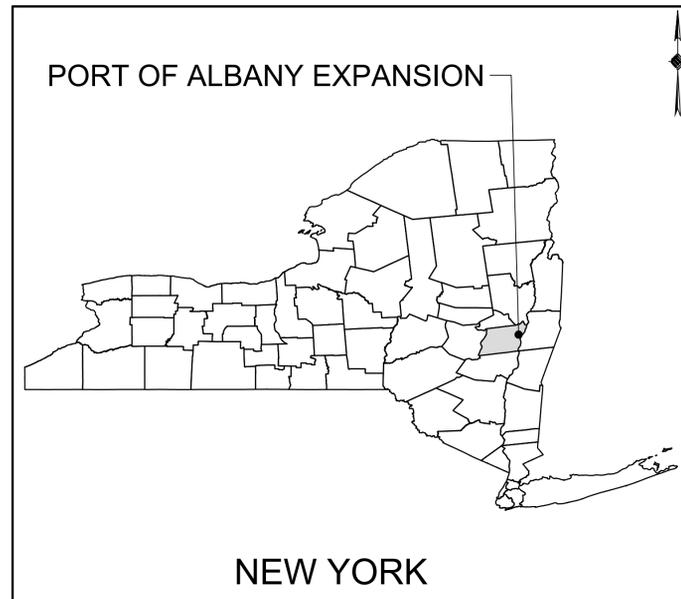


# ALBANY PORT DISTRICT COMMISSION

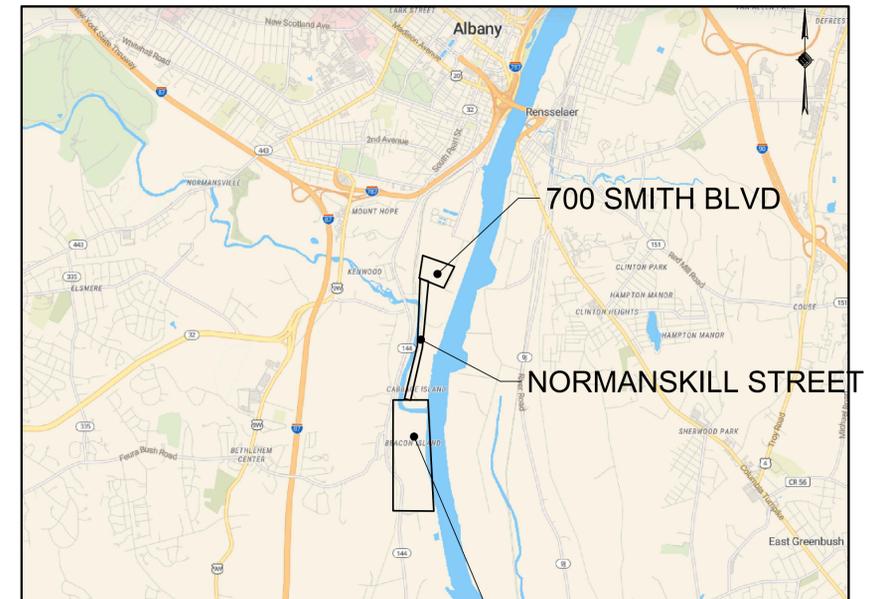
## NORMANSKILL STREET REHABILITATION



LOCATION MAP

### FINAL DESIGN PLANS JANUARY 2022

TOWN OF BETHLEHEM /  
CITY OF ALBANY  
ALBANY COUNTY  
NEW YORK



PORT OF ALBANY EXPANSION

VICINITY MAP

PREPARED FOR:



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

PREPARED BY:



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

MCFARLAND JOHNSON PROJECT # 18641.00

SEALED	ADAM J. FROSINO	REVIEW SET
PE_NO	088870	
PE_DATE	JANUARY 2022	

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**McFarland Johnson**  
 60 RAILROAD PLACE  
 SUITE 402  
 SARATOGA SPRINGS, NEW YORK 12866  
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 SaratogaR@mjinc.com

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION

CLIENT: **ALBANY PORT DISTRICT COMMISSION**  
 ALBANY, NEW YORK  
 PROJECT: **NORMANSKILL ST. REHAB**

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

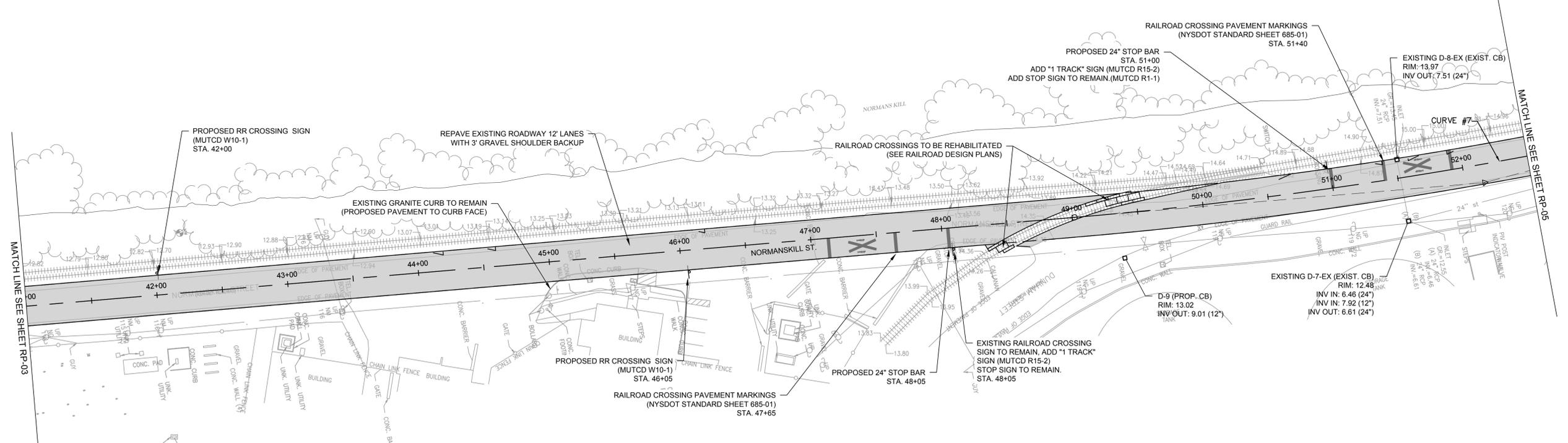
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DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

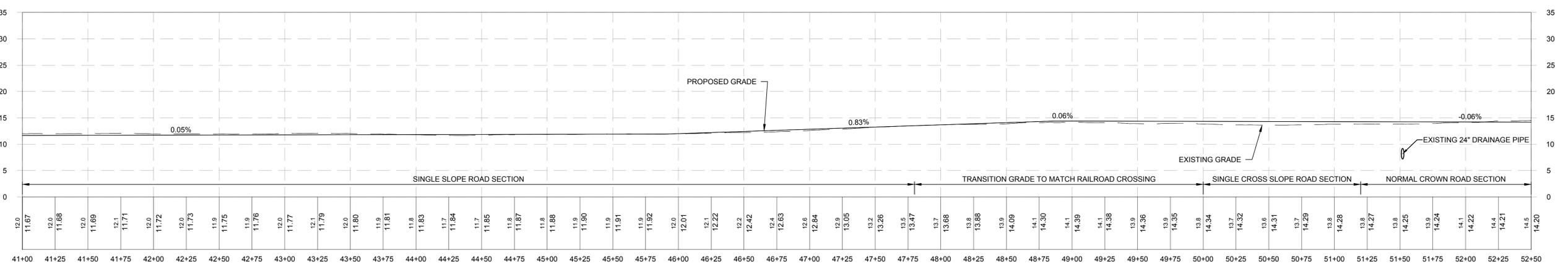
DRAWING NUMBER  
**RP-04**

Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #7	3500.0	625.7	N0° 31' 58.69"E	(690236.4, 1379694.8)	(690242.2, 1380319.7)	49+02	55+27

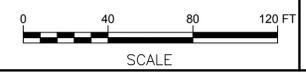


**LEGEND**

---	EXISTING OVERHEAD ELECTRIC	OH
---	EXISTING GAS LINE	G
---	EXISTING WATERLINE	W
---	PROPOSED PAVEMENT	[Pattern]
---	PROPOSED CONCRETE	[Pattern]
---	RIP-RAP STABILIZATION	[Pattern]



**NEW PORT ROAD NORTH - 4**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



N:\18641\04 ALBANY PORT EXPANSION\DRAWINGS\SHEET FILES - NORMANSKILL ST\18641-04-RP-04.DWG



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PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT:  
**NORMANSKILL ST. REHAB**

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SCALE	1"=40'
DATE	JANUARY 2022
PROJECT	18641.00

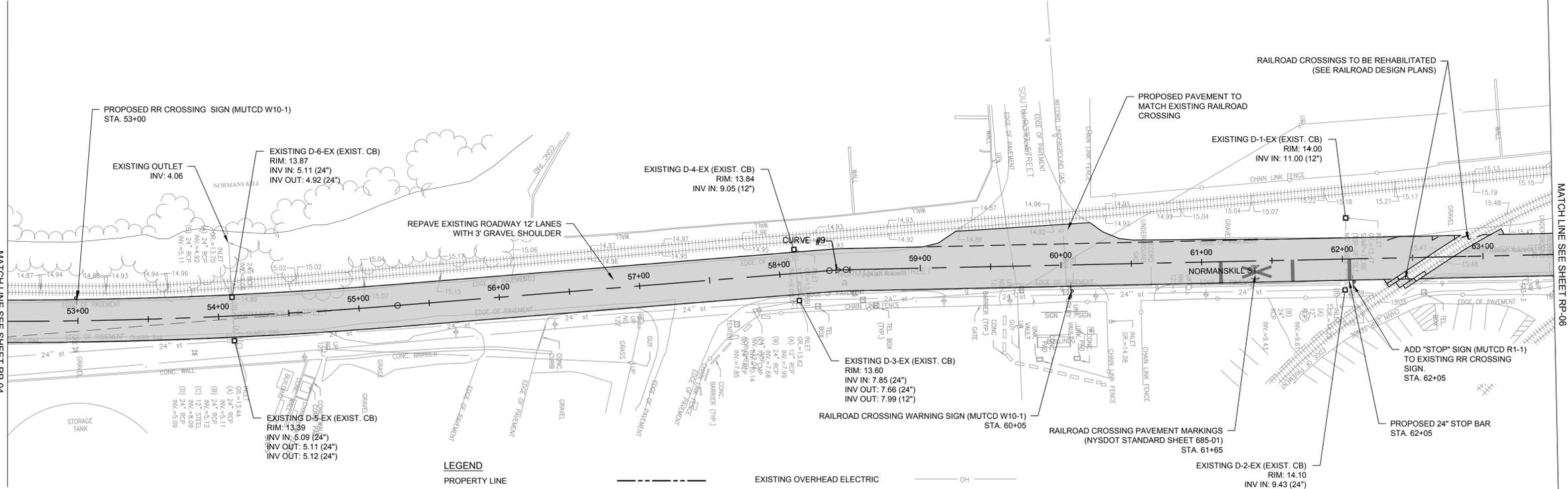
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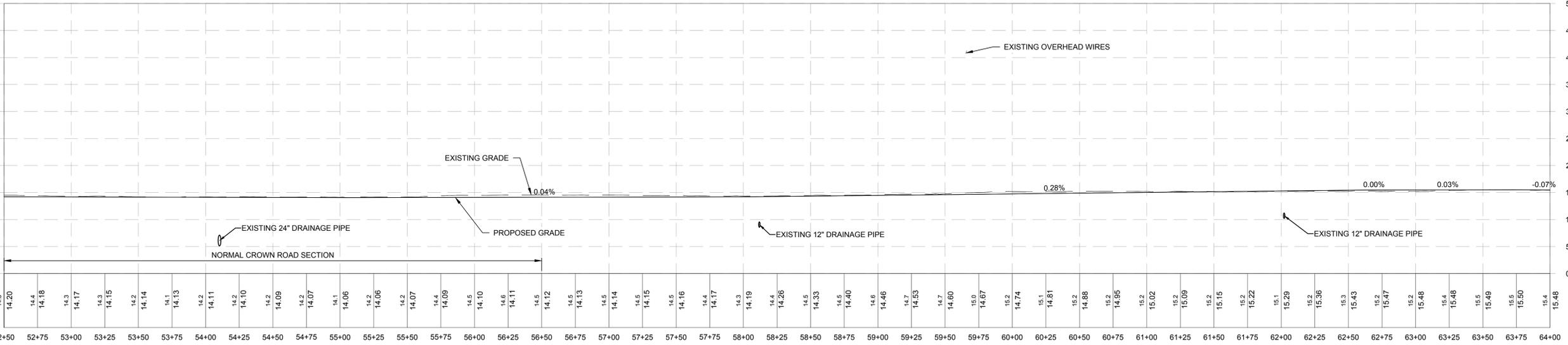
DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

DRAWING NUMBER  
**RP-05**

Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #9	200.0	11.7	N2° 54' 29.75"W	(690217.5, 1380626.6)	(690216.9, 1380638.3)	58+35	58+47



LEGEND	
PROPERTY LINE	---
PROPOSED BOX BEAM GUIDE RAIL	—●—●—●—
DITCH CENTERLINE	—○—○—○—
WETLAND AREA	WETLAND SYMBOL
SECURITY FENCE	—■—■—■—
SILT FENCE	—SF—
EXISTING OVERHEAD ELECTRIC	OH
EXISTING GAS LINE	G
EXISTING WATERLINE	W
PROPOSED PAVEMENT	PAVEMENT SYMBOL
PROPOSED CONCRETE	CONCRETE SYMBOL
RIP-RAP STABILIZATION	RIP-RAP SYMBOL



**NEW PORT ROAD NORTH - 5**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'



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 SaratogaROM@mjinc.com

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT:  
**NORMANSKILL ST. REHAB**

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PROJECT	18641.00

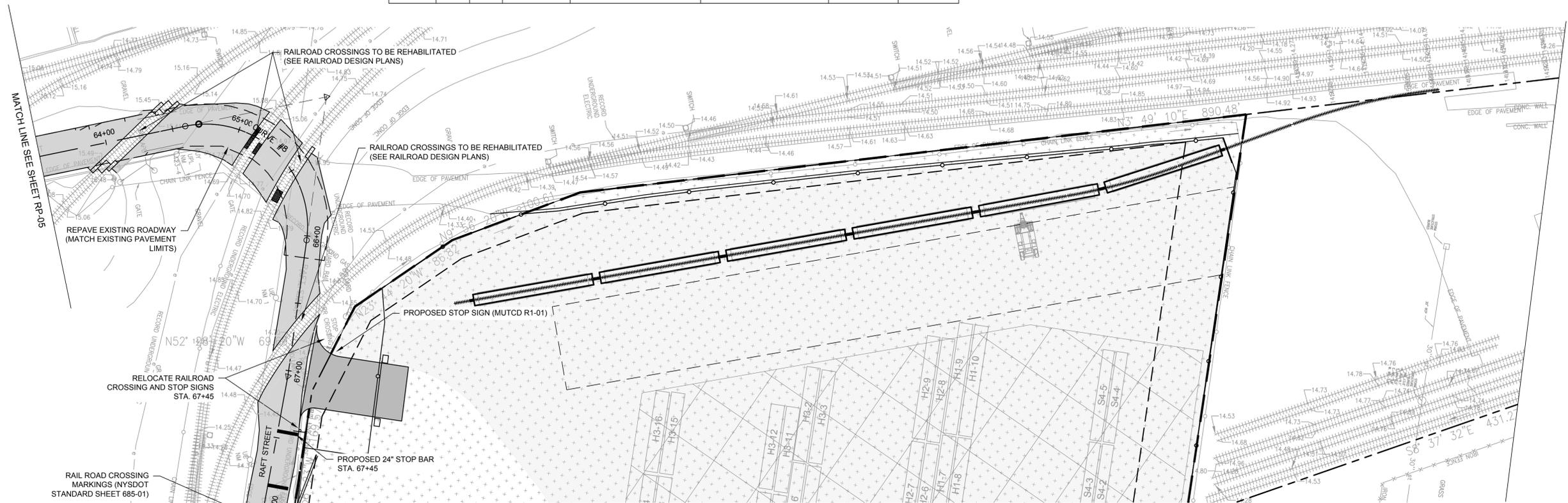
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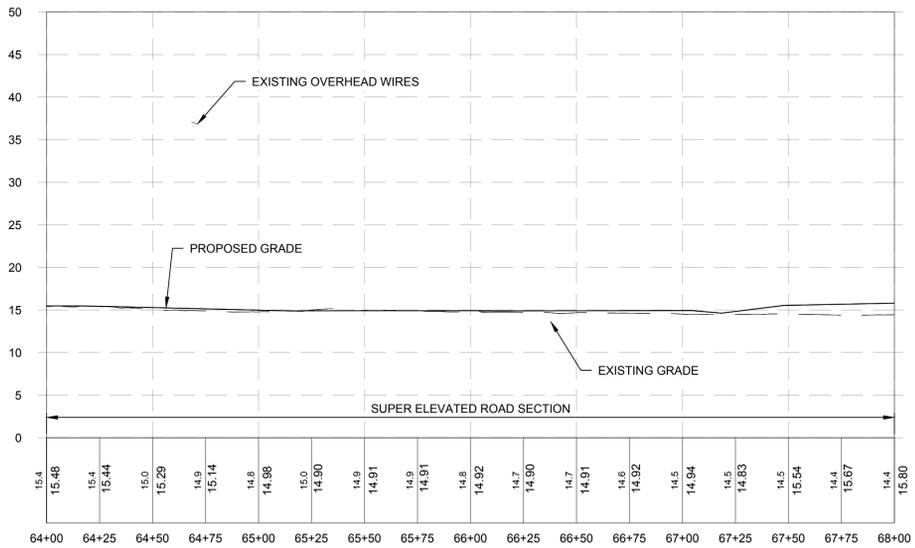
DRAWING TITLE  
**ROADWAY PLAN AND PROFILE**

DRAWING NUMBER  
**RP-06**

Curve #	Radius	Length	Chord Bearing	Start Point (EASTING, NORTHING)	End Point (EASTING, NORTHING)	START STATION	END STATION
CURVE #8	75.0	143.5	N53° 34' 17.56"E	(690203.8, 1381250.7)	(690302.4, 1381323.5)	64+60	66+03



LEGEND	
PROPERTY LINE	---
PROPOSED BOX BEAM GUIDE RAIL	—○—○—
DITCH CENTERLINE	—+—+—
WETLAND AREA	[Hatched pattern]
SECURITY FENCE	—X—X—
SILT FENCE	—SF—
EXISTING OVERHEAD ELECTRIC	—OH—
EXISTING GAS LINE	—G—
EXISTING WATERLINE	—W—
PROPOSED PAVEMENT	[Stippled pattern]
PROPOSED CONCRETE	[Cross-hatched pattern]
RIP-RAP STABILIZATION	[Diagonal hatched pattern]



**NEW PORT ROAD NORTH - 6**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 10'







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ALBANY, NEW YORK

PROJECT:  
**NORMANSKILL ST. REHAB**

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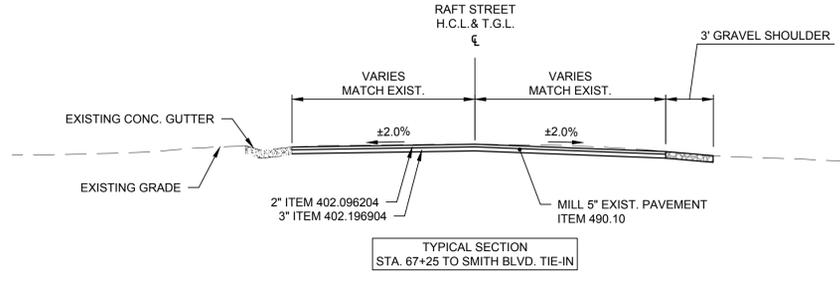
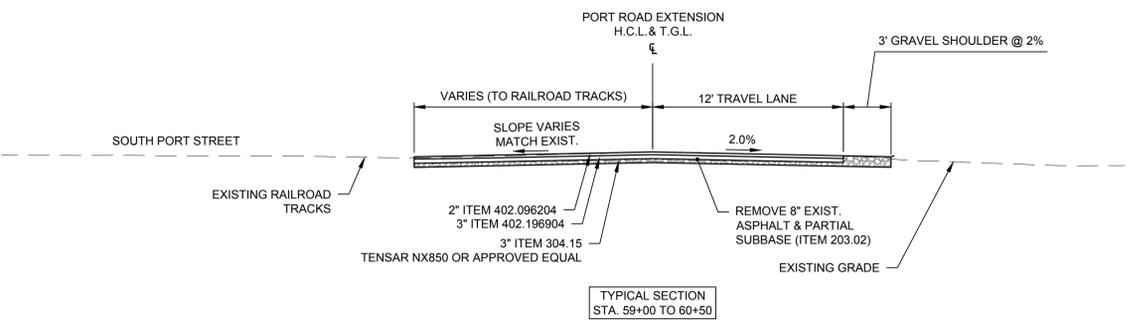
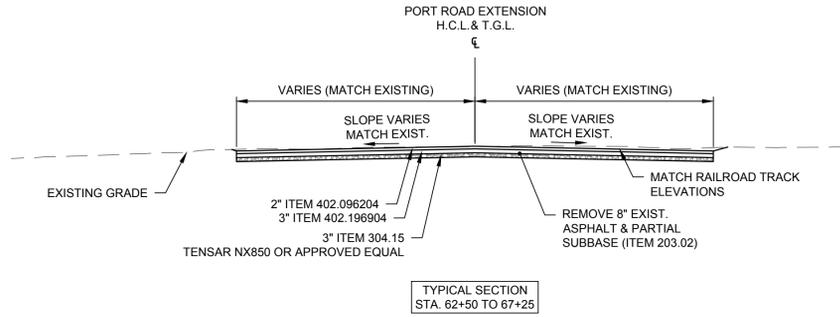
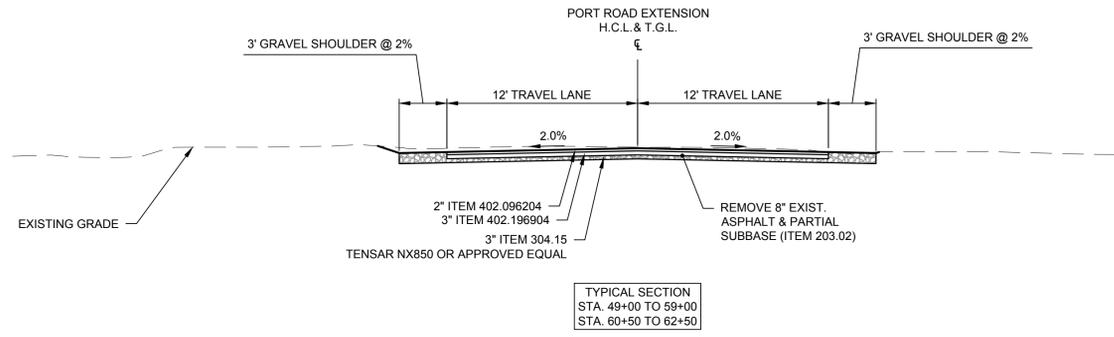
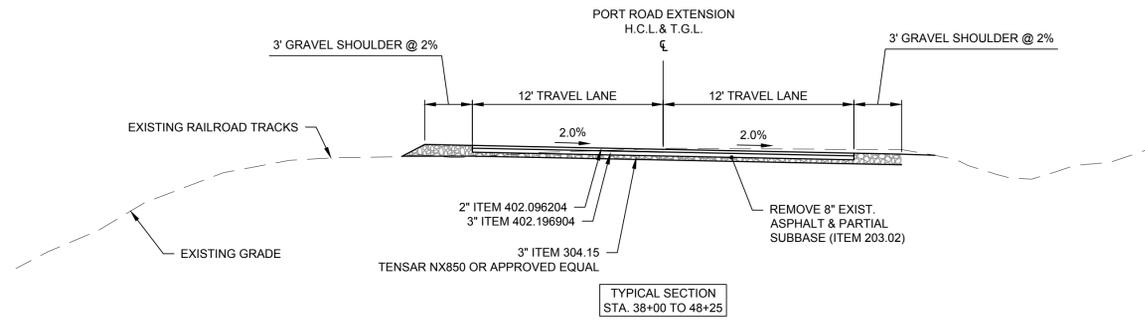
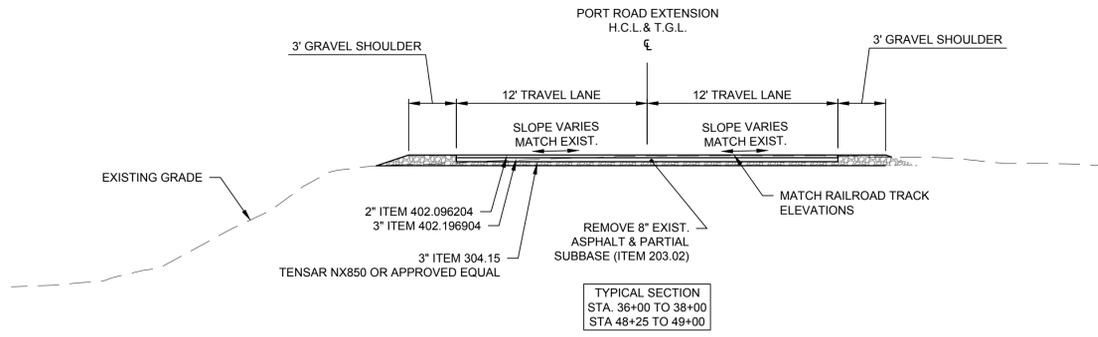
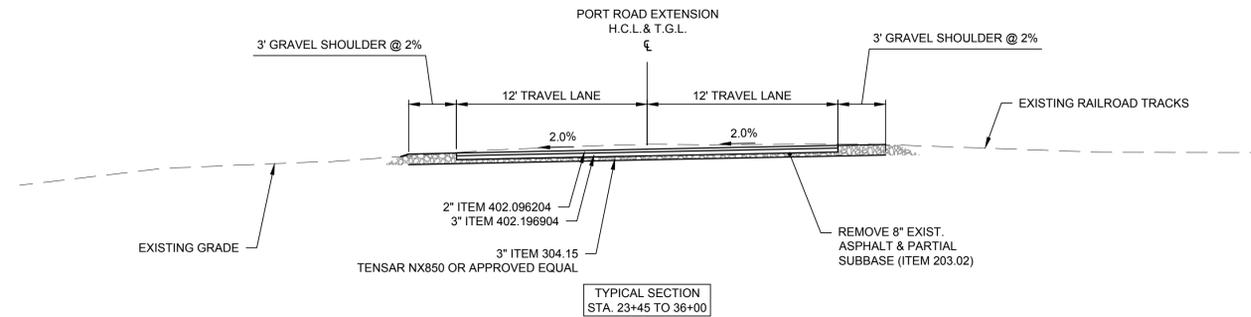
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DRAWING TITLE  
**TYPICAL SECTION**

DRAWING NUMBER  
**TP-02**

ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
203.03	EMBANKMENT IN PLACE	CY
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY
402.096204	2" 9.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION	TON
402.196904	3" BINDER COURSE HMA, 60 SERIES COMPACTION	TON
407.0102	TACK COAT	GALLON
490.10	PRODUCTION COLD MILLING BITUMINOUS CONCRETE	SY
520.09000010	SAW CUTTING ASPHALT CONCRETE	LF
610.1402	TOPSOIL - ROADSIDE	CY
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY



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PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION

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 ALBANY, NEW YORK  
 PROJECT: **NORMANSKILL ST. REHAB**

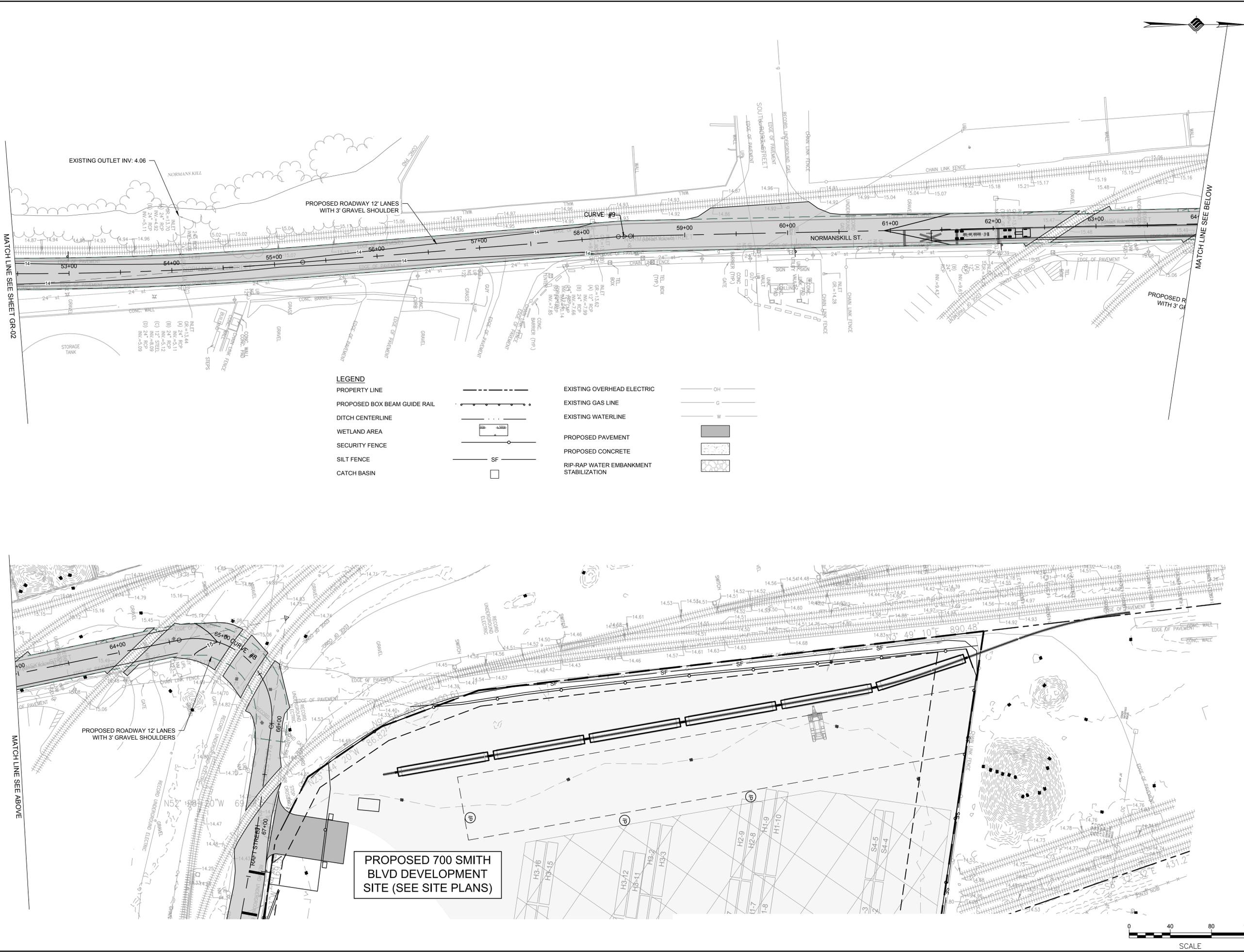
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DRAWING TITLE  
**GRADING, DRAINAGE,  
 EROSION AND  
 SEDIMENT CONTROL**

DRAWING NUMBER  
**GR-03**



N:\18641\_00 ALBANY PORT DISTRICT COMMISSION\DRAWINGS\DESIGN\GRADING\GR-03.DWG



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PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION

Pipe Table				
Pipe Name	Description	Size	Length	Slope
P-10-EX	Existing	36.000	59.9	1.47%
P-8-EX	Existing	24.000	47.5	2.21%
P-7-EX	Existing	24.000	259.7	0.59%
P-5-EX	Existing	24.000	30.8	0.00%
P-6-EX	Existing	24.000	38.7	2.22%
P-4-EX	Existing	24.000	402.5	-0.68%
P-2-EX	Existing	24.000	388.0	-0.46%
P-1-EX	Existing	12.000	50.9	-2.73%
P-3-EX	Existing	12.000	36.2	-2.92%
P-9-PROP	NYS DOT Item 603.9812	12.000	218.1	0.50%
P-11-PROP	NYS DOT Item 603.9818	18.000	7.6	0.50%
P-12-PROP	NYS DOT Item 603.9818	18.000	7.4	0.50%

Pipe Table				
Pipe Name	Description	Size	Length	Slope
P-13-PROP	NYDOT Item 603.9818	18.000	86.0	1.04%

Pipe Table				
Pipe Name	Description	Size	Length	Slope
P-14-PROP	NYDOT Item 603.9818	18.000	59.1	0.59%

Structure Table			
Structure Name	Structure Details	Station and Offset	Description
D-2-EX (EXIST. CB)	RIM = 14.103 P-2-EX INV IN = 9.430 P-1-EX INV OUT = 9.610	STA. 62+01.6 21.8'R	Existing
D-1-EX (EXIST. CB)	RIM = 14.004 P-1-EX INV IN = 11.000	STA. 62+03.1 -29.0'L	Existing
D-8-EX (EXIST. CB)	RIM = 13.968 P-8-EX INV OUT = 7.510	STA. 51+51.5 -14.2'L	Existing
D-6-EX (EXIST. CB)	RIM = 13.866 P-5-EX INV IN = 5.110 P-6-EX INV OUT = 4.920	STA. 54+10.2 -13.3'L	Existing
D-4-EX (EXIST. CB)	RIM = 13.837 P-3-EX INV IN = 9.050	STA. 58+11.4 -16.9'L	Existing
D-3-EX (EXIST. CB)	RIM = 13.603 P-4-EX INV IN = 7.850 P-2-EX INV OUT = 7.660 P-3-EX INV OUT = 7.990	STA. 58+12.4 19.3'R	Existing
D-5-EX (EXIST. CB)	RIM = 13.387 P-7-EX INV IN = 5.090 P-5-EX INV OUT = 5.110 P-4-EX INV OUT = 5.120	STA. 54+10.5 17.5'R	Existing
D-9 (PROP. CB)	RIM = 13.018 P-9-PROP INV OUT = 9.014	STA. 49+37.1 34.1'R	Rectangular Junction Structure
D-7-EX (EXIST. CB)	RIM = 12.481 P-8-EX INV IN = 6.460 P-9-PROP INV IN = 7.923 P-7-EX INV OUT = 6.610	STA. 51+53.1 33.3'R	Existing
D-11 (PROP. CB)	RIM = 10.524 P-11-PROP INV IN = 8.000 P-12-PROP INV IN = 8.000 P-10-EX INV OUT = 7.520	STA. 39+58.6 23.2'R	Rectangular Junction Structure
D-10 (METAL END SECTION)	RIM = 9.728 P-10-EX INV IN = 6.640	STA. 39+70.5 -35.5'L	NYS DOT Item 603.171216
D-12 (METAL END SECTION)	RIM = 9.626 P-11-PROP INV OUT = 8.038	STA. 39+66.3 23.1'R	NYS DOT Item 603.171216
D-13 (METAL END SECTION)	RIM = 9.625 P-12-PROP INV OUT = 8.037	STA. 39+51.3 22.0'R	NYSOT Item 603.171216

Structure Table			
Structure Name	Structure Details	Station and Offset	Description
D-15 (METAL END SECTION)	RIM = 10.382 P-13-PROP INV OUT = 8.666	STA. 38+14.4 28.8'R	NYS DOT Item 603.171216
D-14 (METAL END SECTION)	RIM = 9.490 P-13-PROP INV IN = 7.774	STA. 39+03.4 24.6'R	NYS DOT Item 603.171216

Structure Table			
Structure Name	Structure Details	Station and Offset	Description
D-16 (PROP. CB)	RIM = 16.396 P-14-PROP INV OUT = 13.750	STA. 12+58.7 22.8'R	Rectangular Junction Structure
D-17 (METAL END SECTION)	RIM = 15.046 P-14-PROP INV IN = 13.400	STA. 12+60.0 -36.3'L	NYS DOT Item 603.171216

- NOTES:**
- PROPOSED PIPING SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 603.

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

PROJECT:  
**NORMANSKILL ST. REHAB**

DRAWN \_\_\_\_\_ JES  
 DESIGNED \_\_\_\_\_ NSO  
 CHECKED \_\_\_\_\_ AJF  
 SCALE \_\_\_\_\_ 1"=40'  
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 PROJECT \_\_\_\_\_ 18641.00

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DRAWING TITLE  
**DRAINAGE TABLES**

DRAWING NUMBER  
**GR-04**



**STORMWATER MANAGEMENT PRACTICE - INFILTRATION BASIN**

PROJECT IDENTIFICATION - SPDES CONSTRUCTION PERMIT # NYRXXXXXX

MUST BE MAINTAINED IN ACCORDANCE WITH O&M PLAN

DO NOT REMOVE OR ALTER

NYSDEC SPDES CONSTRUCTION PERMIT NUMBER TO BE PROVIDED ONCE ISSUED (TYP.)

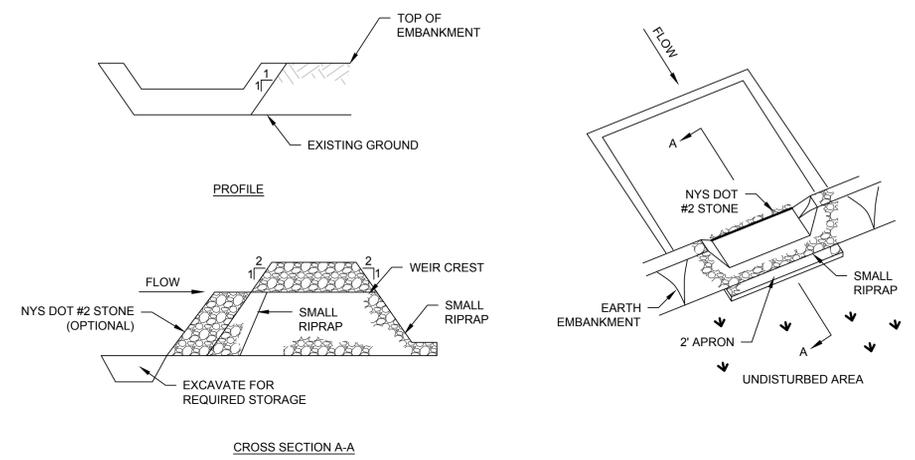
**WARNING**

SWIMMING, WADING, AND SKATING IS PROHIBITED

POSSIBLE CONTAMINATION OR POLLUTION OF POND WATER

MAXIMUM POND DEPTH IS 5 FEET

SEE SHEET RP-01, RP-02 & GR-01 - FOR LOCATION, ORIENTATION, AND QUANTITY

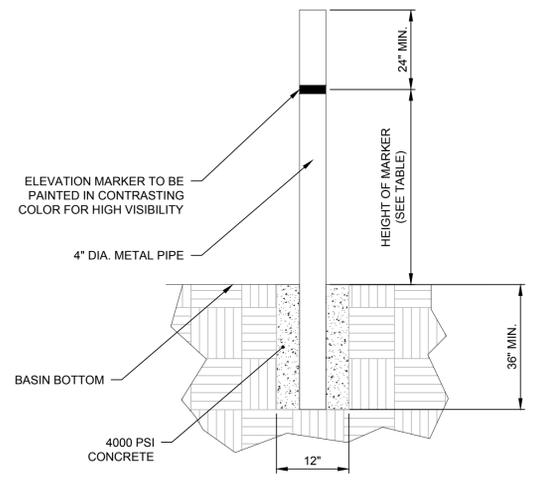


OPTION: A ONE FOOT LAYER OF NYS DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP IN PLACE OF THE EMBEDDED FILTER CLOTH.

- NOTES:
1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
  2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
  3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
  4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
  5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. IT SHALL BE PLACED ON SITE AND STABILIZED.
  6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
  7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
  8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
  9. THE MAXIMUM DRAINAGE AREA IS 5 ACRES.

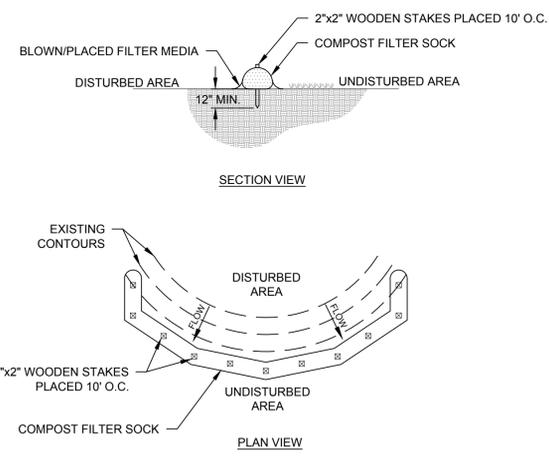
**STORMWATER MANAGEMENT SIGNAGE**

**STONE OUTLET SEDIMENT TRAP (INFILTRATION BASIN FOREBAYS TO SERVE AS SEDIMENT TRAPS)**



- NOTES:
1. CONTRACTOR SHALL PLACE A 4" DIA. METAL PIPE AT A MINIMUM OF 36" BELOW THE BASIN BOTTOM ELEVATION ENCASED IN 12" OF 4000 PSI CONCRETE.
  2. CONTRACTOR SHALL MARK THE CORRESPONDING ELEVATION FOR SEDIMENT STORAGE CLEANOUT ON THE PVC PIPE TO INDICATE WHEN MAINTENANCE IS REQUIRED.
  3. SEDIMENT DEPTH GAUGE REQUIRED FOR SEDIMENT BASINS, FOREBAYS, AND INFILTRATION BASINS.

**SEDIMENT DEPTH GAUGE**



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

**COMPOST FILTER SOCK**

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

PROJECT MILESTONE  
**FINAL DESIGN PLANS**

NO.	DATE	DESCRIPTION

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

PROJECT: **NORMANSKILL ST. REHAB**

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

**FOR REVIEW  
NOT FOR  
CONSTRUCTION**

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

DRAWING TITLE  
**EROSION AND SEDIMENT CONTROL DETAILS**

DRAWING NUMBER  
**DT-02**

