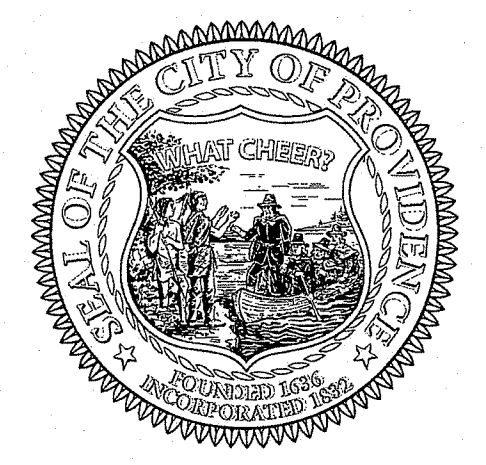


LIST OF DRAWINGS

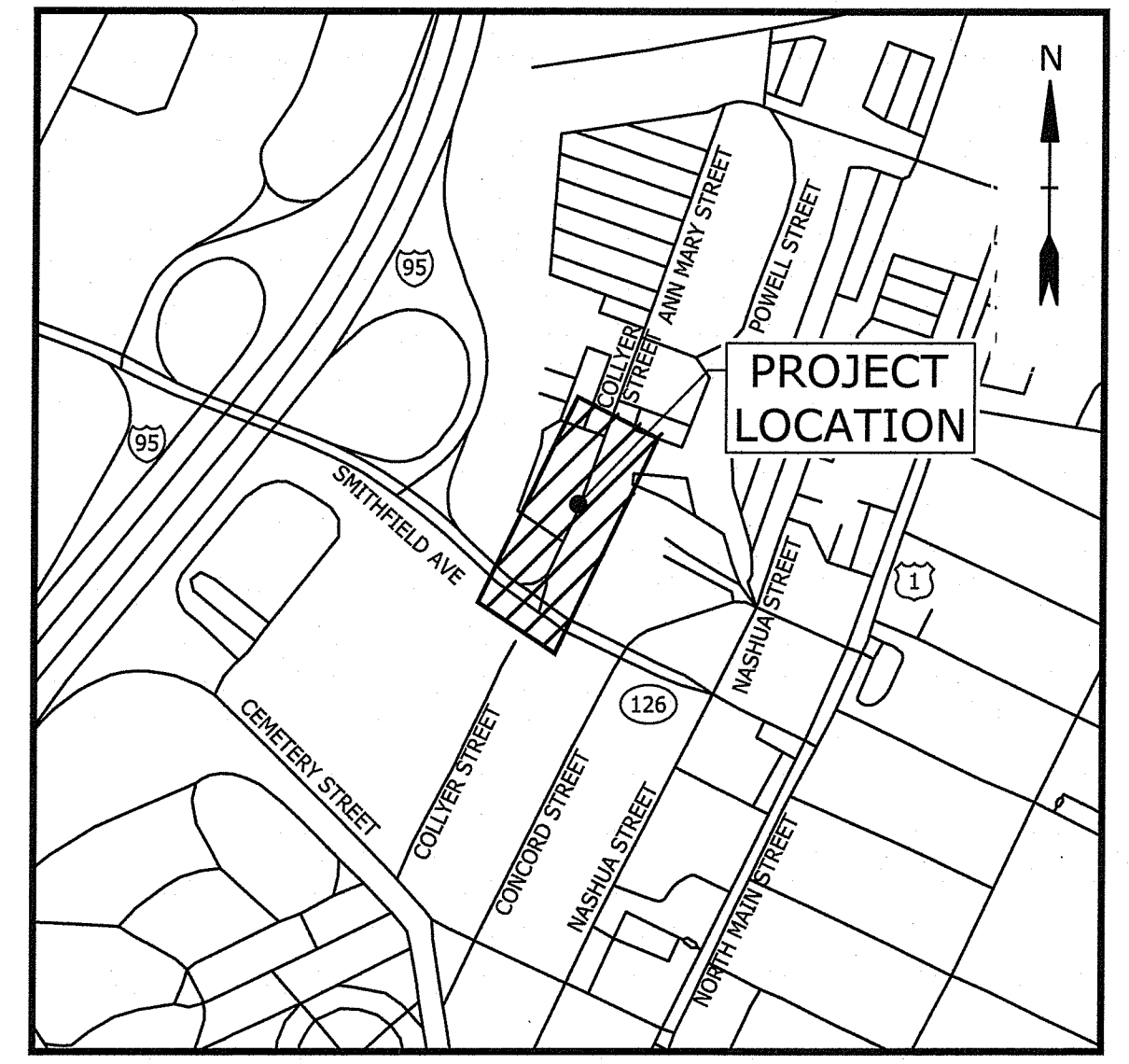
SHEET NO.	DRAWING TITLE
GENERAL	
	COVER SHEET
1	GENERAL NOTES - 1
2	GENERAL NOTES - 2
3	LIST OF ABBREVIATIONS
ROADWAY	
4	TYPICAL SECTIONS
5	EXISTING CONDITIONS PLAN
6	ROADWAY PLAN - 1
7	ROADWAY PLAN - 2
8	RIGHT-OF-WAY PLAN
9	PROFILE
10	GRADING PLAN
11	SOIL EROSION & SEDIMENT CONTROL PLAN
12	ECOLOGICAL RESTORATION PLAN
13	CROSS-SECTIONS STA. 0+75 TO 1+00
14	CROSS-SECTIONS STA. 1+25 TO 1+50
15	CROSS-SECTIONS STA. 1+75 TO 2+00
16	CROSS-SECTIONS STA. 2+25 TO 2+50
17	CROSS-SECTIONS STA. 2+75 TO 3+00
18	CROSS-SECTIONS STA. 3+25 TO 3+50
19	CROSS-SECTIONS STA. 3+75 TO 4+00
20	CROSS-SECTIONS STA. 4+25
STRUCTURAL	
21	BORING LOGS AND BORING NOTES (SHEET 1 OF 3)
22	BORING LOGS AND BORING NOTES (SHEET 2 OF 3)
23	BORING LOGS AND BORING NOTES (SHEET 3 OF 3)
24	RETAINING WALL 101 PLAN AND ELEVATION
25	RETAINING WALL 102 PLAN AND ELEVATION (SHEET 1 OF 2)
26	RETAINING WALL 102 PLAN AND ELEVATION (SHEET 2 OF 2)
27	TYPICAL RETAINING WALL SECTIONS
28	VERTICAL SHAPE PARAPET DETAILS
29	END POST DETAILS
ELECTRICAL	
30	ELECTRICAL PLAN
DETAILS	
31	MISCELLANEOUS DETAILS - 1
32	MISCELLANEOUS DETAILS - 2
33	MISCELLANEOUS DETAILS - 3
34	MISCELLANEOUS DETAILS - 4
35	MISCELLANEOUS DETAILS - 5



CITY OF PROVIDENCE, RI RETAINING WALL REPLACEMENTS COLLYER STREET

CITY OF PROVIDENCE
PROVIDENCE COUNTY

RIDEM PERMIT SUBMISSION
JUNE 6, 2022



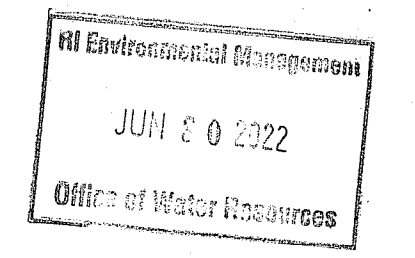
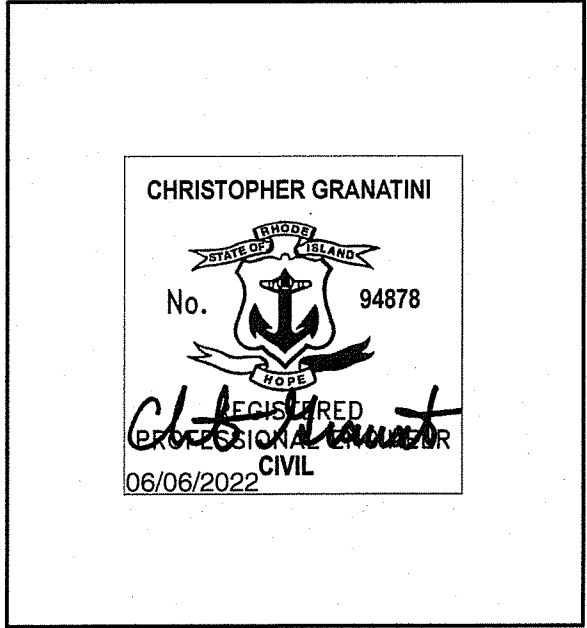
LOCATION MAP
APPROX. SCALE: 1" = 500'

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION (AMENDED MARCH 2018), WITH ALL REVISIONS, AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 2018 EDITION, WITH ALL REVISIONS.

SCALES OF DRAWINGS
AS SHOWN
BASE OF LEVELS
VERTICAL DATUM - NAVD 88
HORIZONTAL DATUM - NAD 83

Tighe & Bond
213 Court Street
Suite 1100
Middletown, CT 06457
(860) 704-4760

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 16 2022 FILE # 22-0408
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Matthew D. Wenzel



Date Saved: 6/16/2022 2:02:31 PM By: TMM/awer
Tighe & Bond: I:\P5040 Providence\Drawings\Drawings\Figures\AutoCAD\Sheet\PS040-009-COVER.dwg

MAP NOTES:

1. THE NORTH ARROW AND BEARINGS ARE BASED UPON THE RHODE ISLAND STATE COORDINATE SYSTEM N.A.D. 1983 (2011). THE ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) USING GEOID 2018. COORDINATES AND ELEVATIONS WERE DETERMINED FROM RTK GPS OBSERVATIONS MADE ON MAY 10, 2016, USING "MA CORS" NETWORK (WRENTHAM BASE), HAVING THE FOLLOWING VALUES:

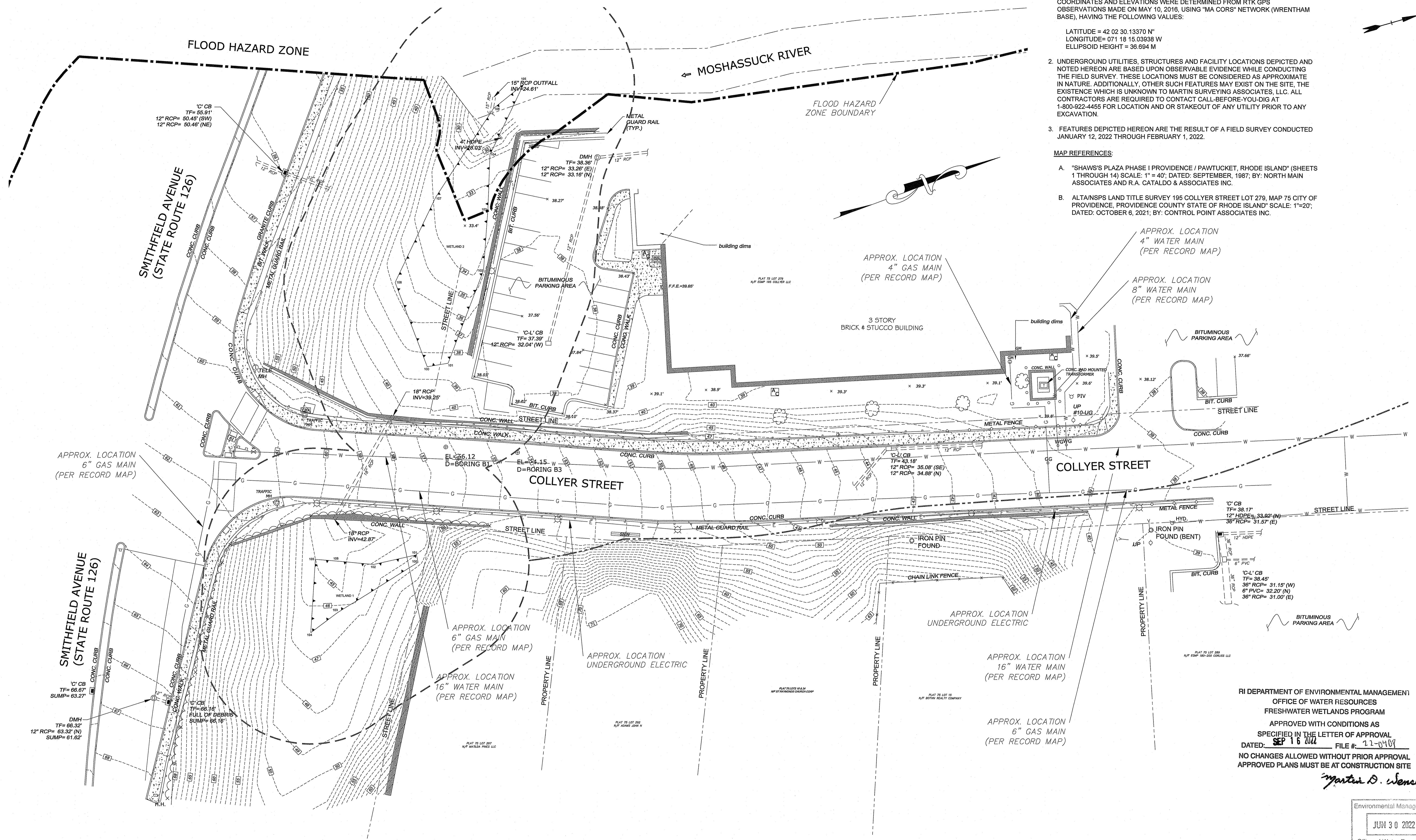
LATITUDE = 42 02 30.13370 N
 LONGITUDE = 071 18 15.03938 W
 ELLIPSOID HEIGHT = 36.694 M

2. UNDERGROUND UTILITIES, STRUCTURES AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON ARE BASED UPON OBSERVABLE EVIDENCE WHILE CONDUCTING THE FIELD SURVEY. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE WHICH IS UNKNOWN TO MARTIN SURVEYING ASSOCIATES, LLC. ALL CONTRACTORS ARE REQUIRED TO CONTACT CALL-BEFORE-YOU-DIG AT 1-800-922-4455 FOR LOCATION AND OR STAKEOUT OF ANY UTILITY PRIOR TO ANY EXCAVATION.

3. FEATURES DEPICTED HEREON ARE THE RESULT OF A FIELD SURVEY CONDUCTED JANUARY 12, 2022 THROUGH FEBRUARY 1, 2022.

MAP REFERENCES:

- A. "SHAW'S PLAZA PHASE I PROVIDENCE / PAWTUCKET, RHODE ISLAND" (SHEETS 1 THROUGH 14) SCALE: 1" = 40'; DATED: SEPTEMBER, 1987; BY: NORTH MAIN ASSOCIATES AND R.A. CATALDO & ASSOCIATES INC.
- B. ALTA/NSPS LAND TITLE SURVEY 195 COLLYER STREET LOT 279, MAP 75 CITY OF PROVIDENCE, PROVIDENCE COUNTY STATE OF RHODE ISLAND" SCALE: 1"=20'; DATED: OCTOBER 6, 2021; BY: CONTROL POINT ASSOCIATES INC.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE #: 22-0409
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenzel

Environmental Management
 JUN 30 2022
 Office of Water Resources

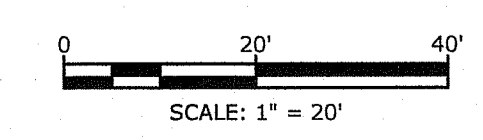
REVISIONS		
NO.	DATE	BY

**COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI**

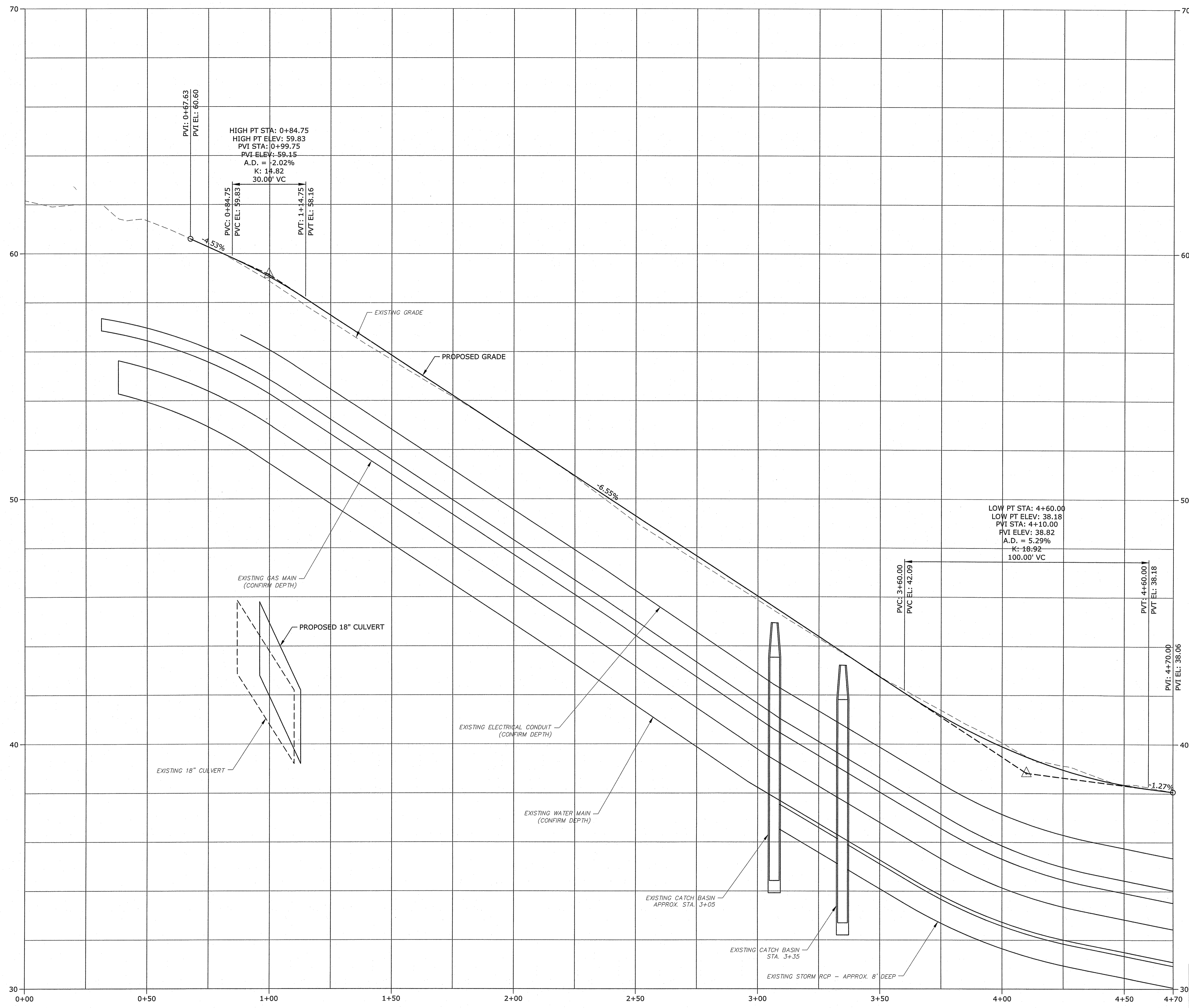
EXISTING CONDITIONS PLAN

CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 20'

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760



Last Saved: 6/6/2022, 4:45:15 PM By: T.W.Hessner
 Tighe & Bond LLP P25040 Providence009 Collyer Street Wall Replacement Drawings - Figures/AutoCAD Sheets/P25040-009-EX.dwg



PV - (1) - STA: 0+00 TO 4+70

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE # 22-0409
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Jensek

Environmental Management
 JUN 30 2022
 Office of Water Resources

REVISIONS		
NO.	DATE	BY

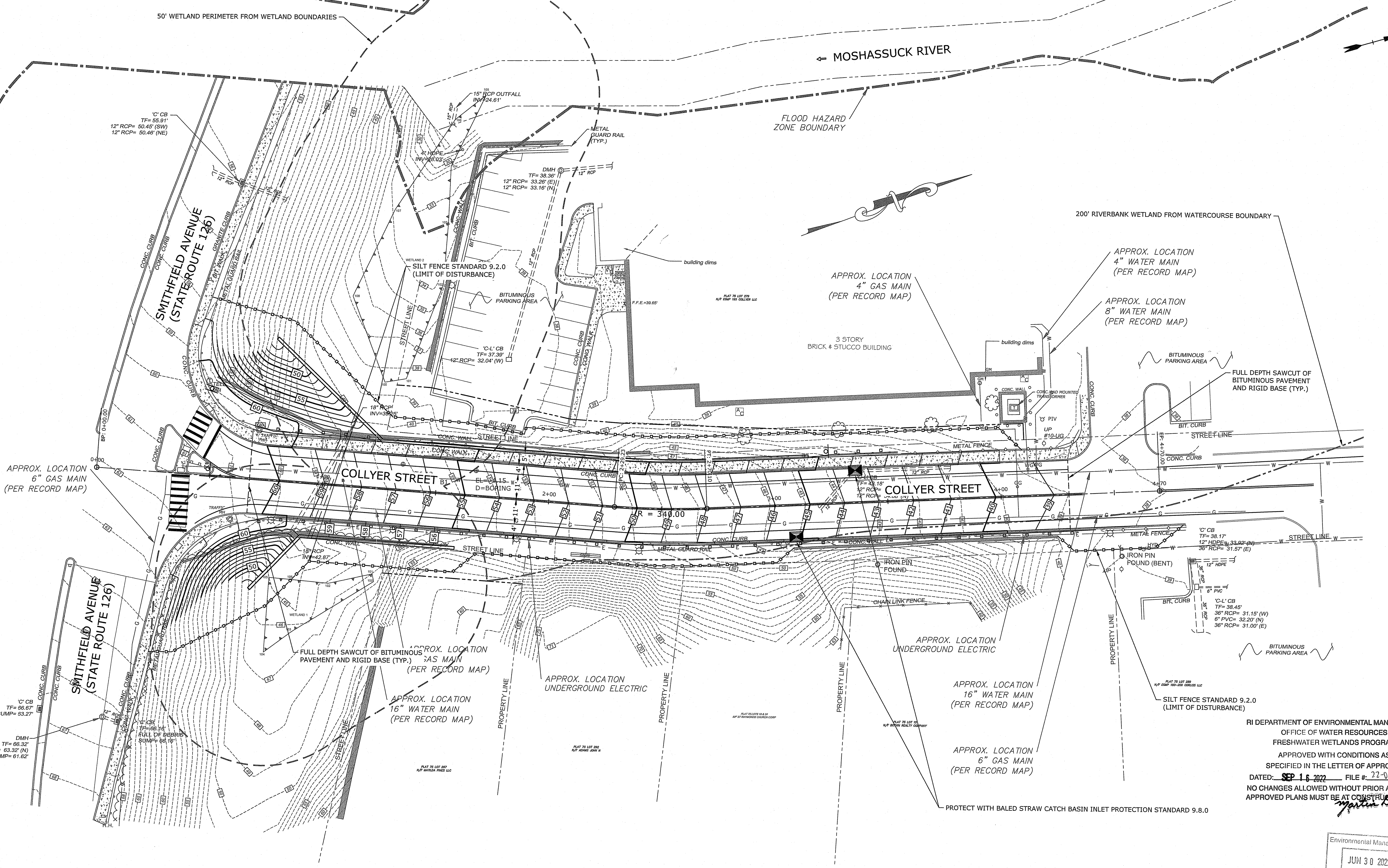
COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI

PROFILE

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760

CHECKED BY: JRI DATE: 6/3/2022 SCALE: NO SCALE

Last saved: 6/3/2022 10:52:54 AM By: T. Wimmer
 Tighe & Bond: J:\P5040 Providence\09 Collyer Street Wall Replacement\Drawings_Figures\AutoCAD\Sheet\5040-009-PROF.dwg



APPROX. LOCATION
6" GAS MAIN
(PER RECORD MAP)

APPROX. LOCATION
4" GAS MAIN
(PER RECORD MAP)

APPROX. LOCATION
4" WATER MAIN
(PER RECORD MAP)

APPROX. LOCATION
8" WATER MAIN
(PER RECORD MAP)

APPROX. LOCATION
8" GAS MAIN
(PER RECORD MAP)

APPROX. LOCATION
16" WATER MAIN
(PER RECORD MAP)

APPROX. LOCATION
UNDERGROUND ELECTRIC

APPROX. LOCATION
UNDERGROUND ELECTRIC

APPROX. LOCATION
16" WATER MAIN
(PER RECORD MAP)

APPROX. LOCATION
6" GAS MAIN
(PER RECORD MAP)

PROTECT WITH BALED STRAW CATCH BASIN INLET PROTECTION STANDARD 9.8.0

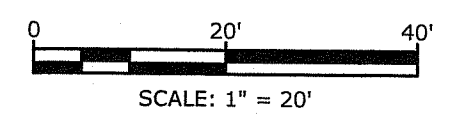
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: **SEP 16 2022** FILE #: 22-0108
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
JUN 30 2022

LEGEND

- - - - - FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE
- ☒ BALED STRAW CATCH BASIN INLET PROTECTION STANDARD 9.8.0
- - - - - SILT FENCE STANDARD 9.2.0

Tighe & Bond
213 Court Street
Suite 1100
Middletown, CT 06457
(860) 704-4760



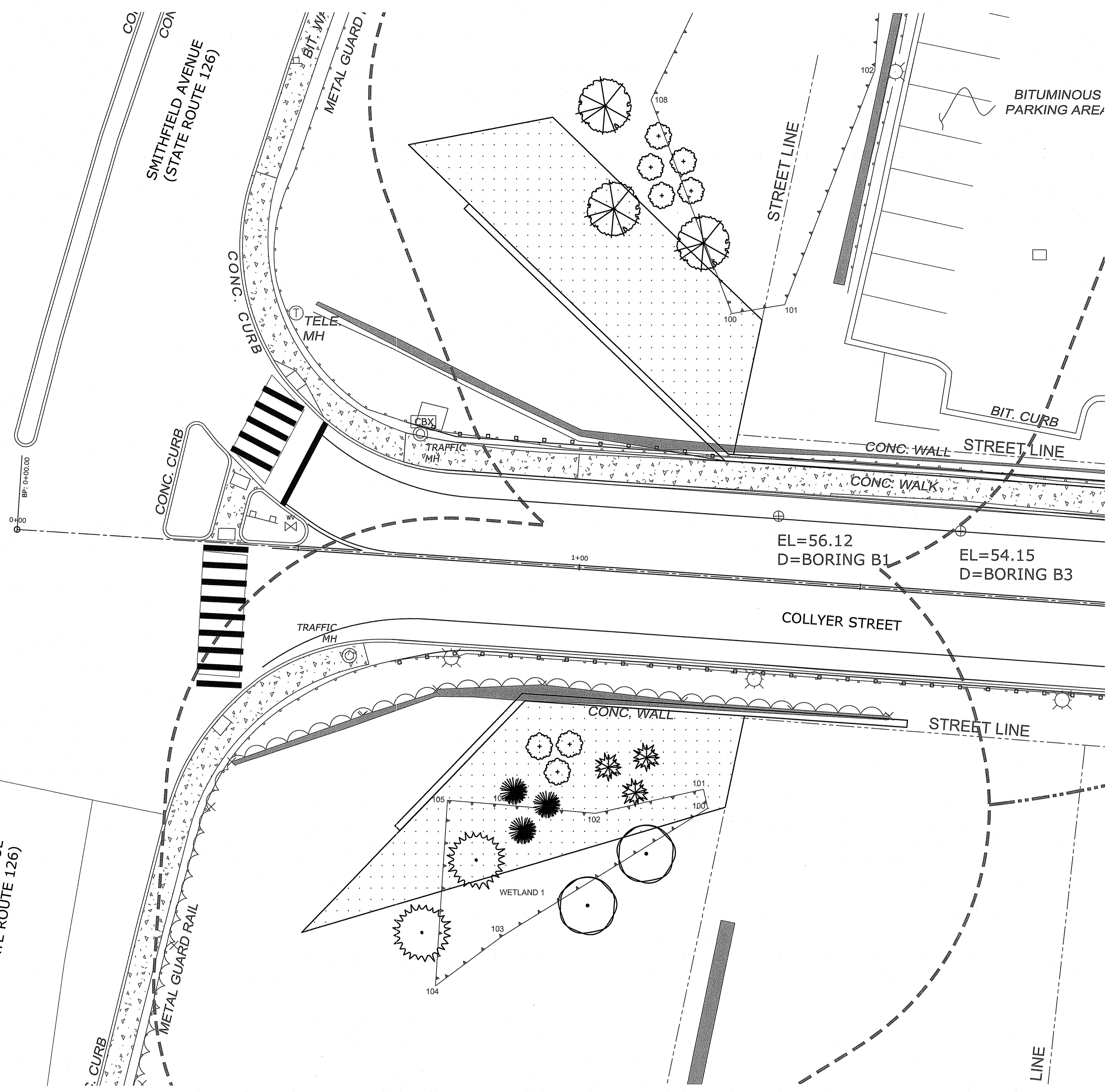
REVISIONS		
NO.	DATE	BY

**COLLYER STREET
RETAINING WALL REPLACEMENT
PROVIDENCE, RI**

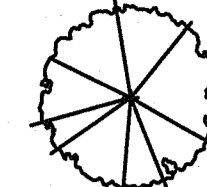
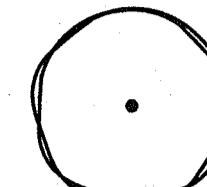
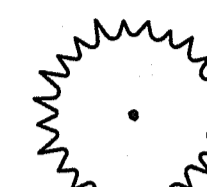



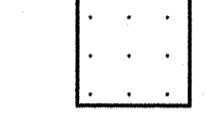
**SOIL EROSION &
SEDIMENT CONTROL PLAN**

CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 20'

Last Saved: 6/6/2022 10:02:45 AM
 Project: 03/20/2022-4:52pm By: T.Warner
 Title: 03/20/2022-4:52pm Providence 009 Collyer Street Wall Replacement Drawings - Figures/AutoCAD Sheets/009-SECC.dwg
 User: T.Warner



LEGEND

-  NORTHERN RED OAK
-  GRAY BIRCH
-  RED MAPLE
-  SERVICEBERRY
-  SWEETFERN
-  WINTERBERRY
-  EROSION CONTROL/RESTORATION SEED MIX

PLANT SCHEDULE

TREES:

BOTANICAL NAME	COMMON NAME	INDICATOR STATUS	SIZE	SPACING
QUERCUS RUBRA	NORTHERN RED OAK	FACU	2.5" - 3" CALIPER	FIELD LOCATE
BETULA POPULIFOLIA	GRAY BIRCH	FAC	2.5" - 3" CALIPER	FIELD LOCATE
ACER RUBRUM	RED MAPLE	FAC	2.5" - 3" CALIPER	FIELD LOCATE

SHRUBS:

BOTANICAL NAME	COMMON NAME	INDICATOR STATUS	SIZE	SPACING
AMELANCHIER CANADENSIS	SERVICEBERRY MULTI-STEM SPECIMENS	FAC	6' - 8' HT.	10' O.C.
COMPTONIA PEREGRINA	SWEETFERN	UPL	3 GAL.	10' O.C.
ILEX VERTICILLATA	WINTERBERRY	FACW	3' - 4' HT. B&B	10' O.C.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE #: 22-0100
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Woneck

Environmental Management
 JUN 30 2022
 Office of Water Resources

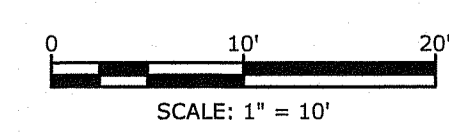
REVISIONS		
NO.	DATE	BY

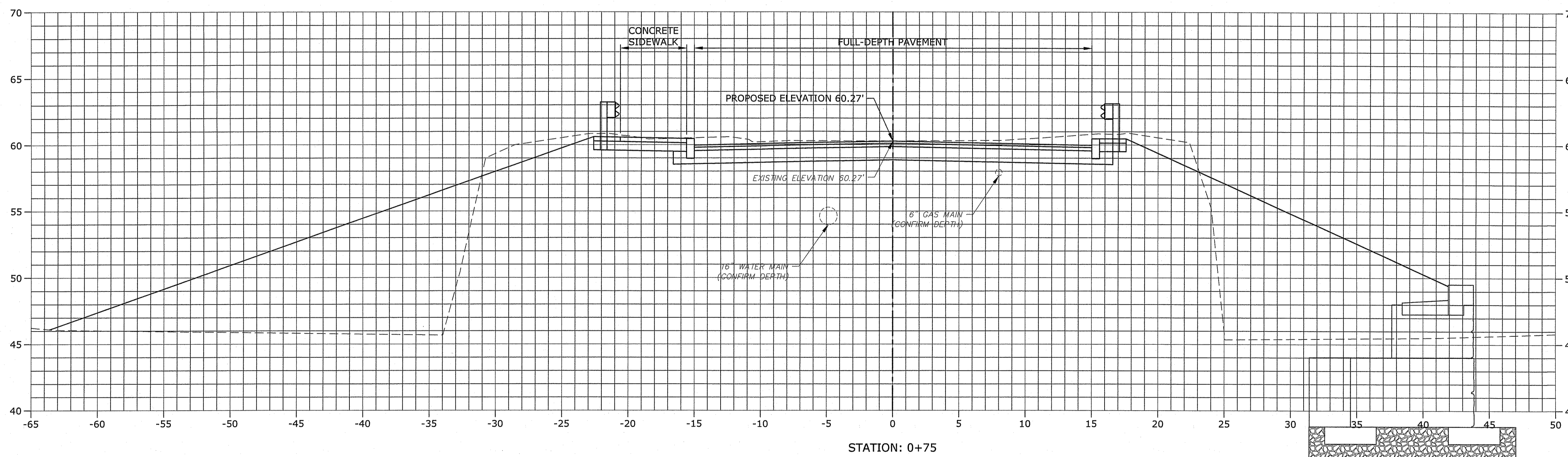
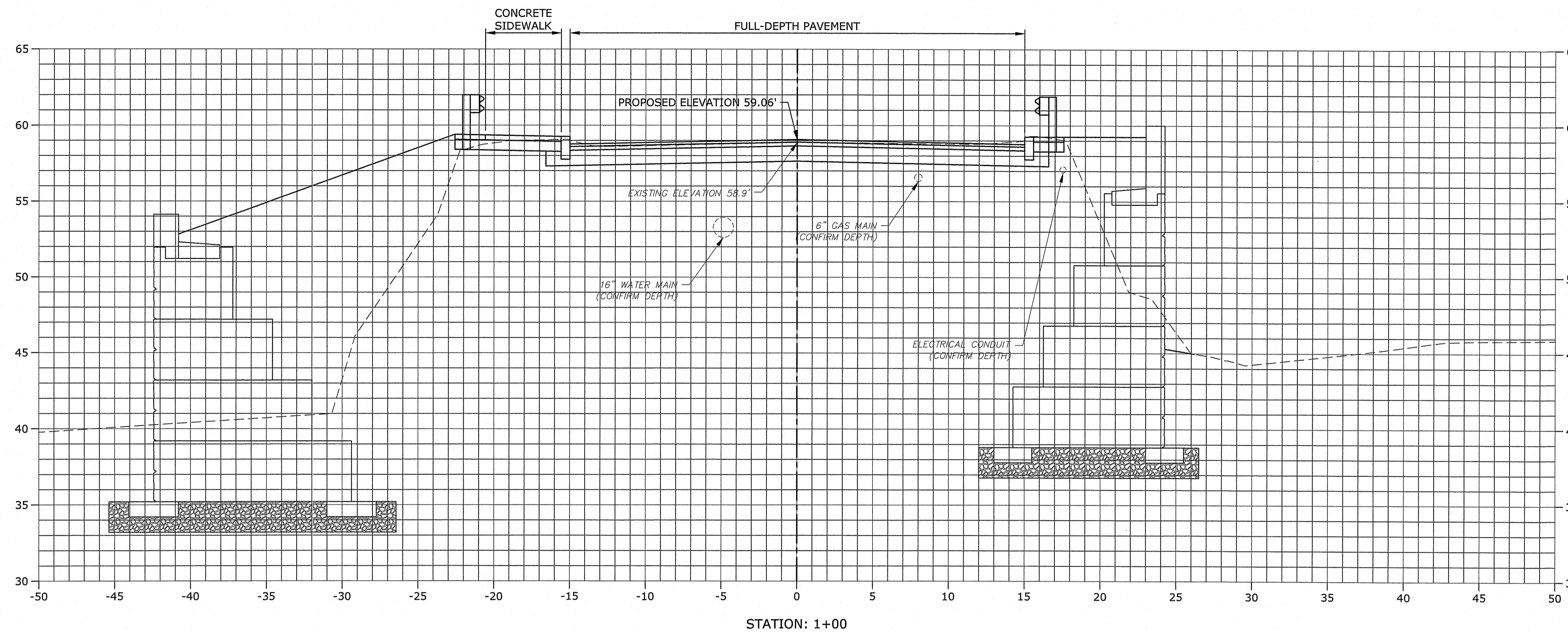
**COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI**

ECOLOGICAL RESTORATION PLAN

CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 10'

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760





RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE # 22-0408
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wasek

Environmental Management
 JUN 30 2022
 Office of Water Resources

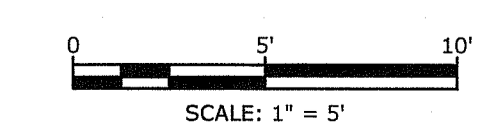
REVISIONS		
NO.	DATE	BY

COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI

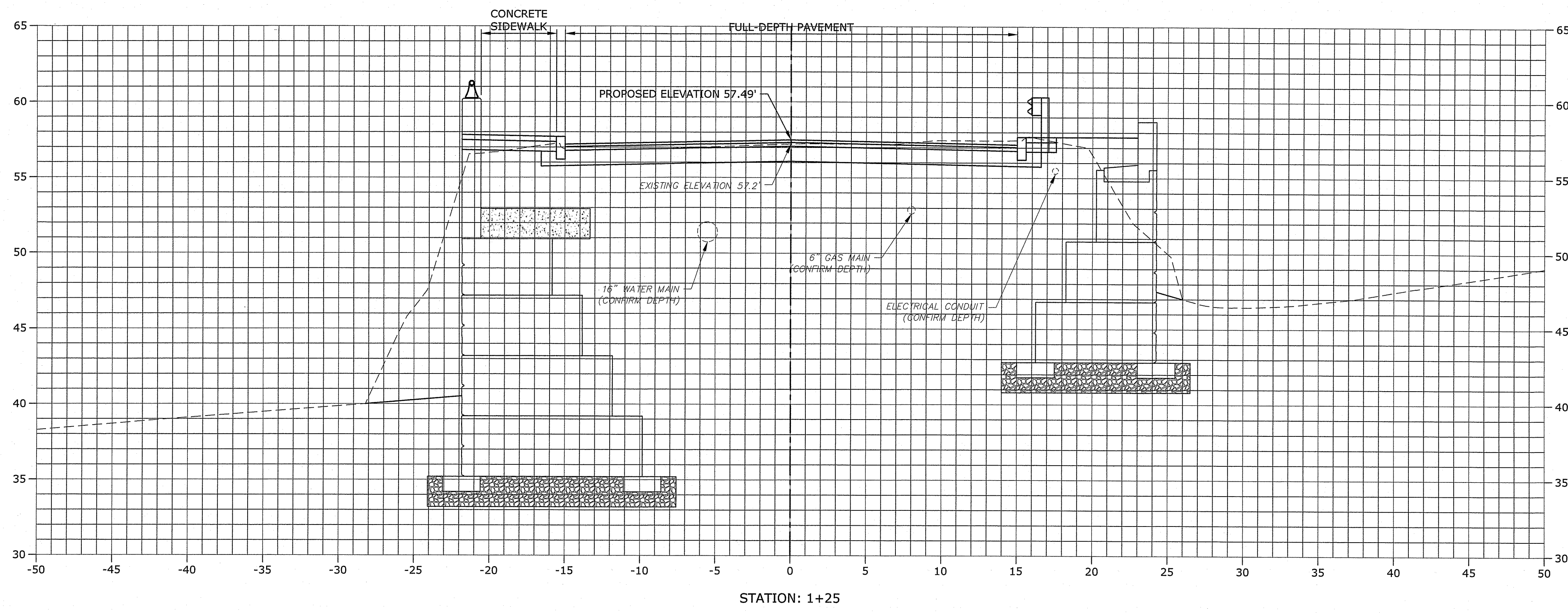
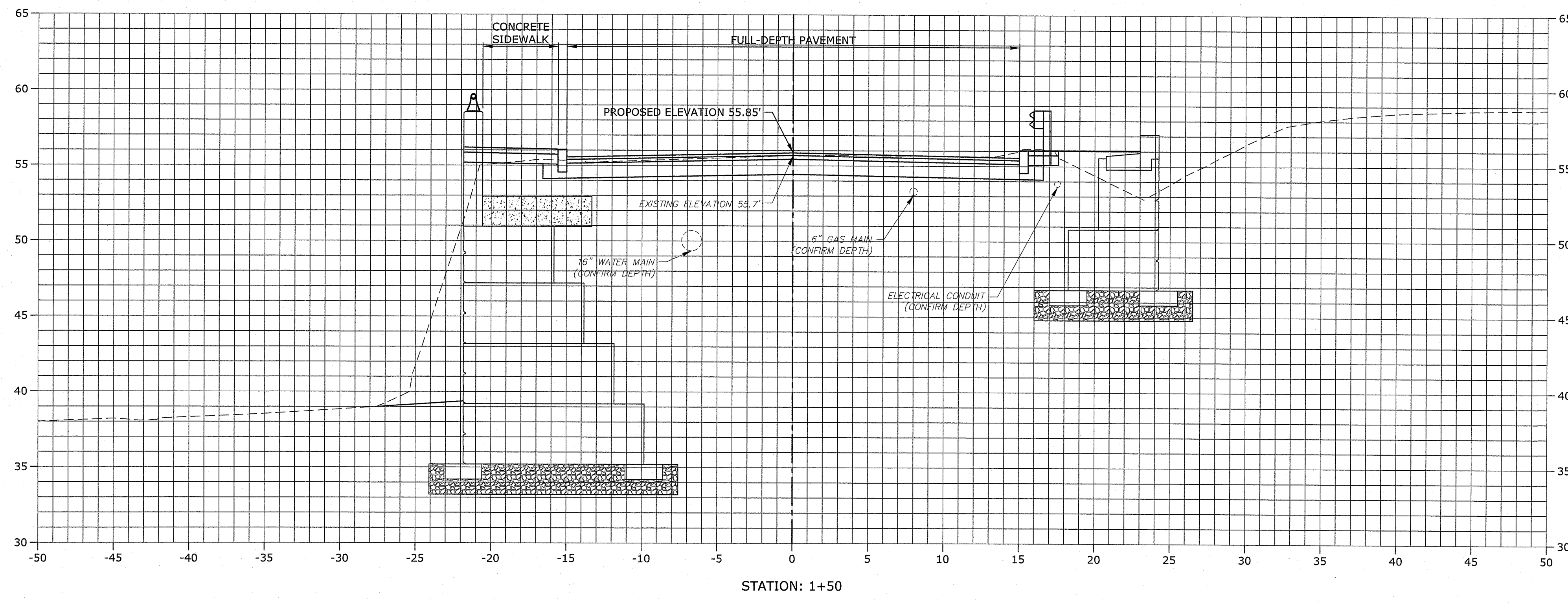
CROSS-SECTIONS
 STA. 0+75 TO 1+00

CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 5'

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760



Last Saved: 6/27/2022 5:50pm By: TDW
 Plotted On: Jun 03, 2022 5:50pm
 Tighe & Bond 213 Court Street Middletown, CT 06457
 Figure: 13 of 35
 Drawing: Retaining Wall Replacement (Drawings - Figures) AutoCAD Sheet: 13 of 35
 Sheet: 13 of 35

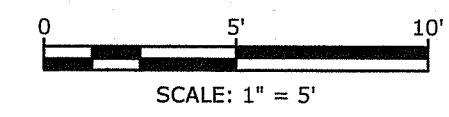


RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE #: 22-07108
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wensek

Environmental Management
 JUN 30 2022
 Office of Water Resources

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760



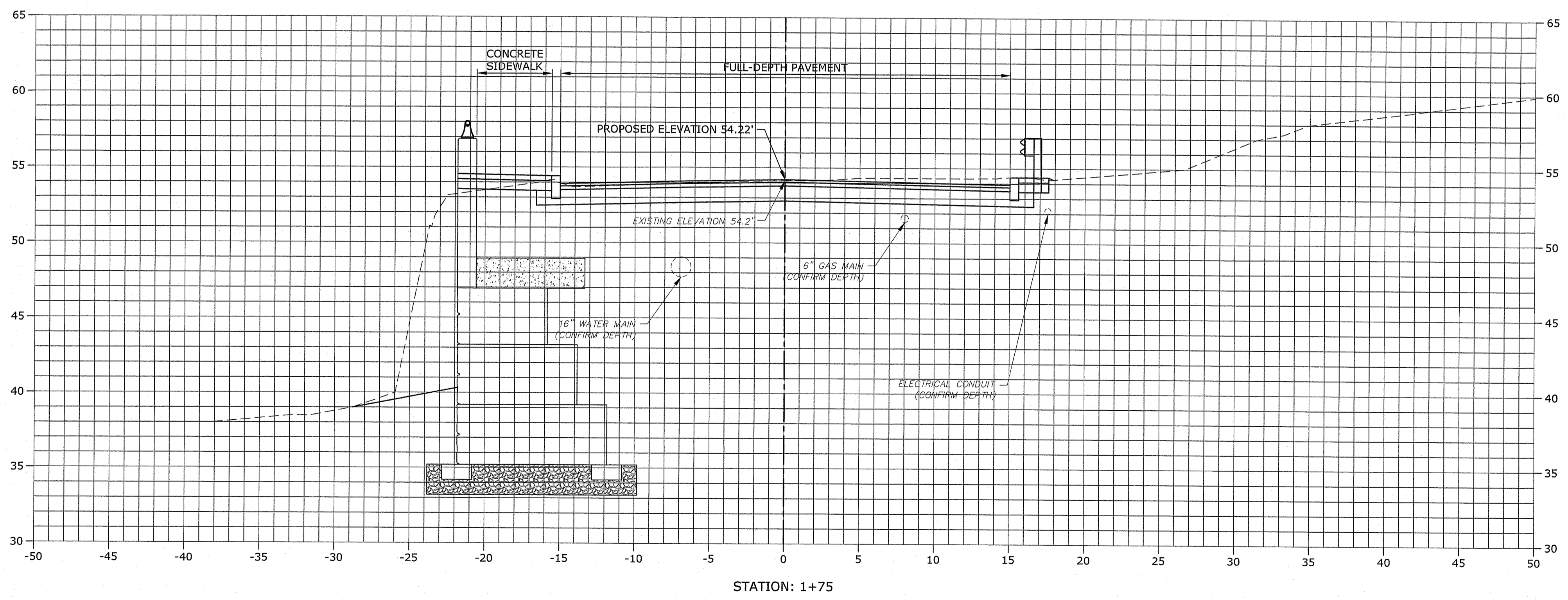
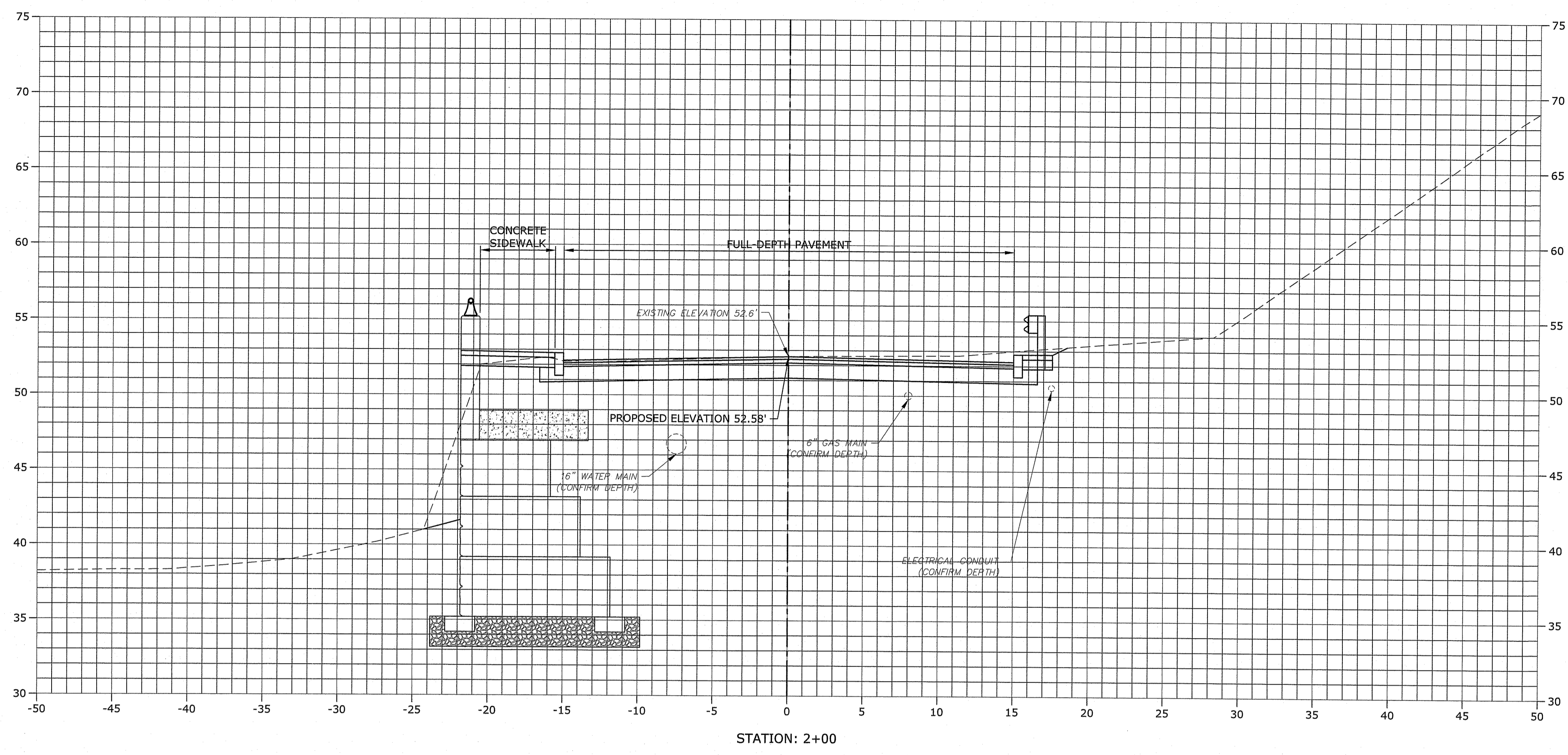
REVISIONS		
NO.	DATE	BY

**COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI**

**CROSS-SECTIONS
 STA. 1+25 TO 1+50**

CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 5'

Last Saved: 6/3/2022 5:50pm By: TWamser
 Plotted On: Jun 03, 2022 5:50pm
 Tighe & Bond: P:\P5040 Providence\009 Collyer Street Wall Replacement\Drawings_Figures\AutoCAD\Sheet\F5040-009-XSEC.dwg



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE #: 22-0408
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Seneck

Environmental Management
 JUN 30 2022
 Office of Water Resources

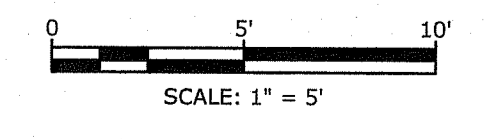
REVISIONS	NO.	DATE	BY

**COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI**

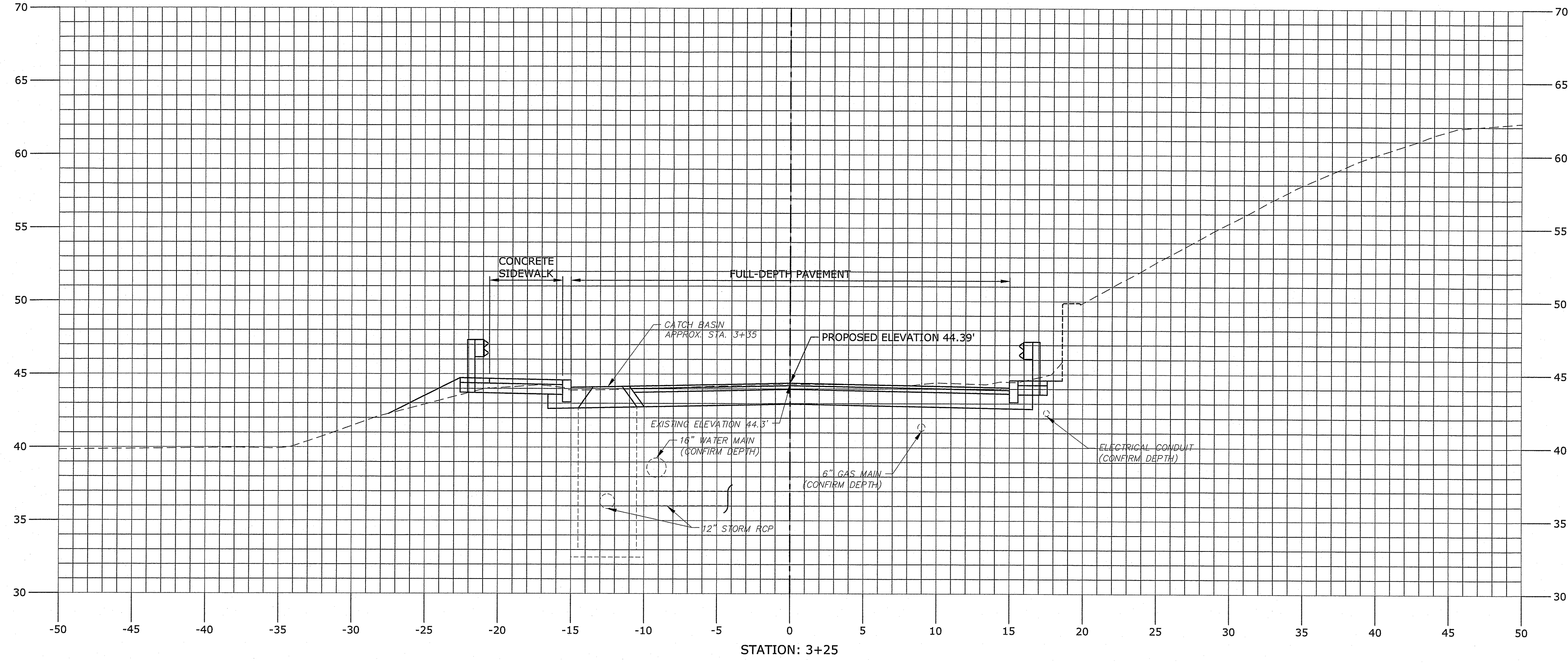
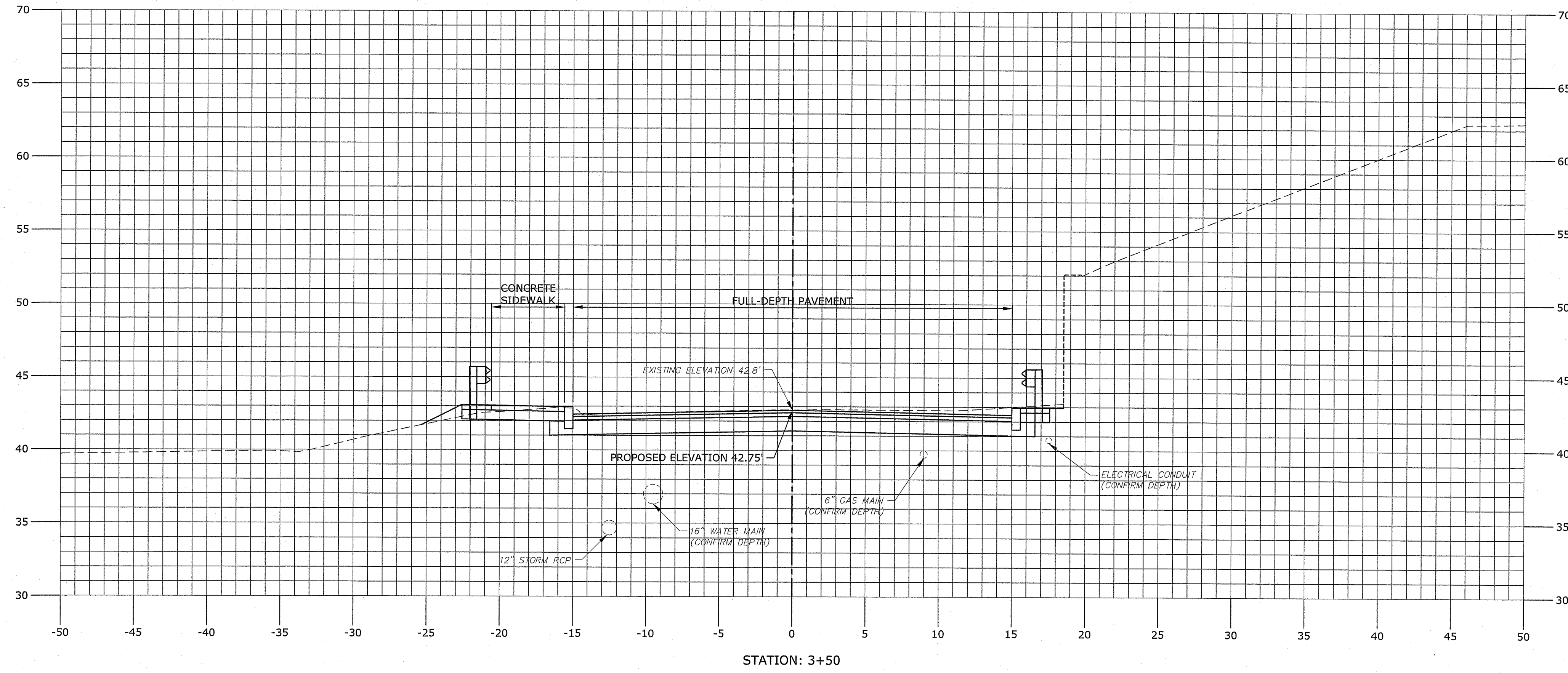
**CROSS-SECTIONS
 STA. 1+75 TO 2+00**

CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 5'

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760



Last Saved: 6/27/2022 5:50pm By: TWamser
 Plotted On: Jun 03, 2022 5:50pm
 Tighe & Bond: J:\P\2040 Providence\009 Collyer Street Wall Replacement\Drawings_Figures\AutoCAD\Sheet\PS040-009-XSEC.dwg



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE # 22-0408
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jonathan D. Weneck

Environmental Management
 JUN 30 2022
 Office of Water Resources

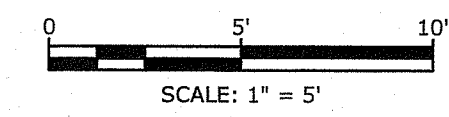
REVISIONS	NO.	DATE	BY

**COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI**

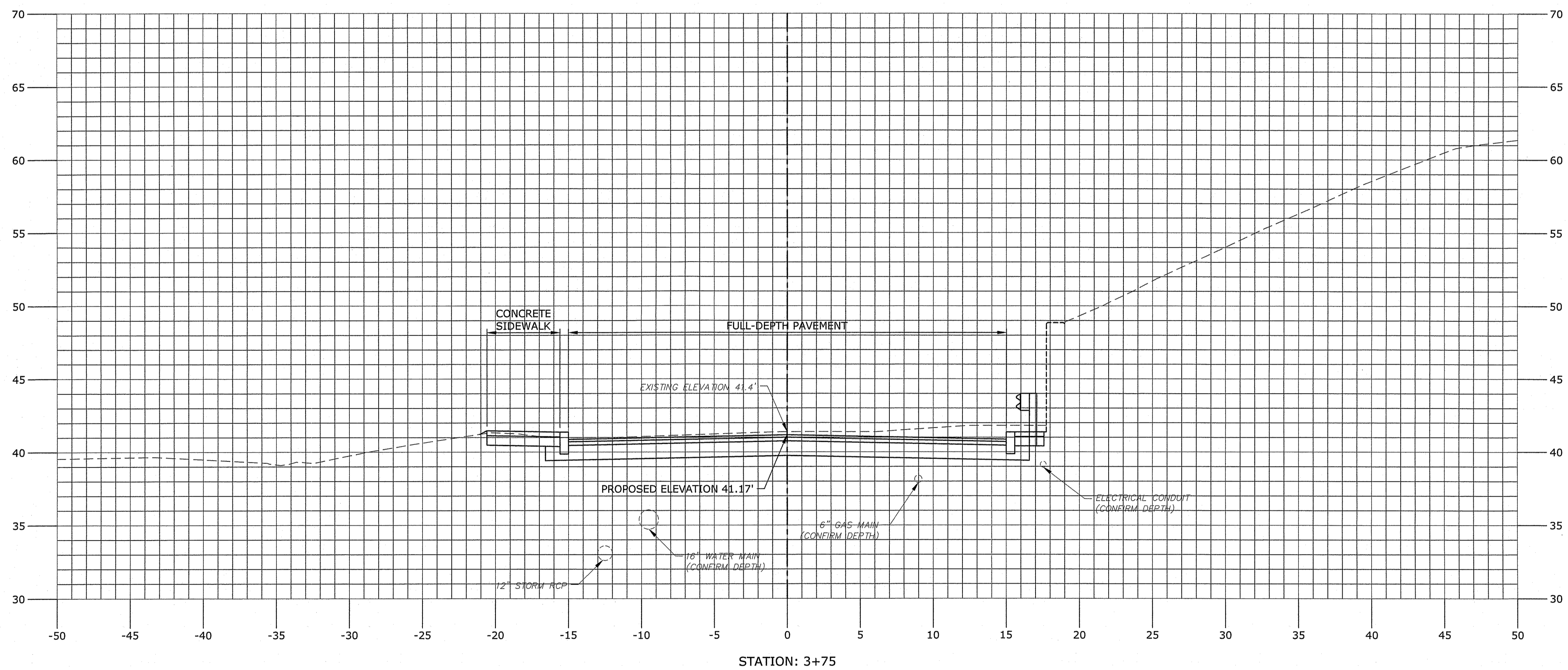
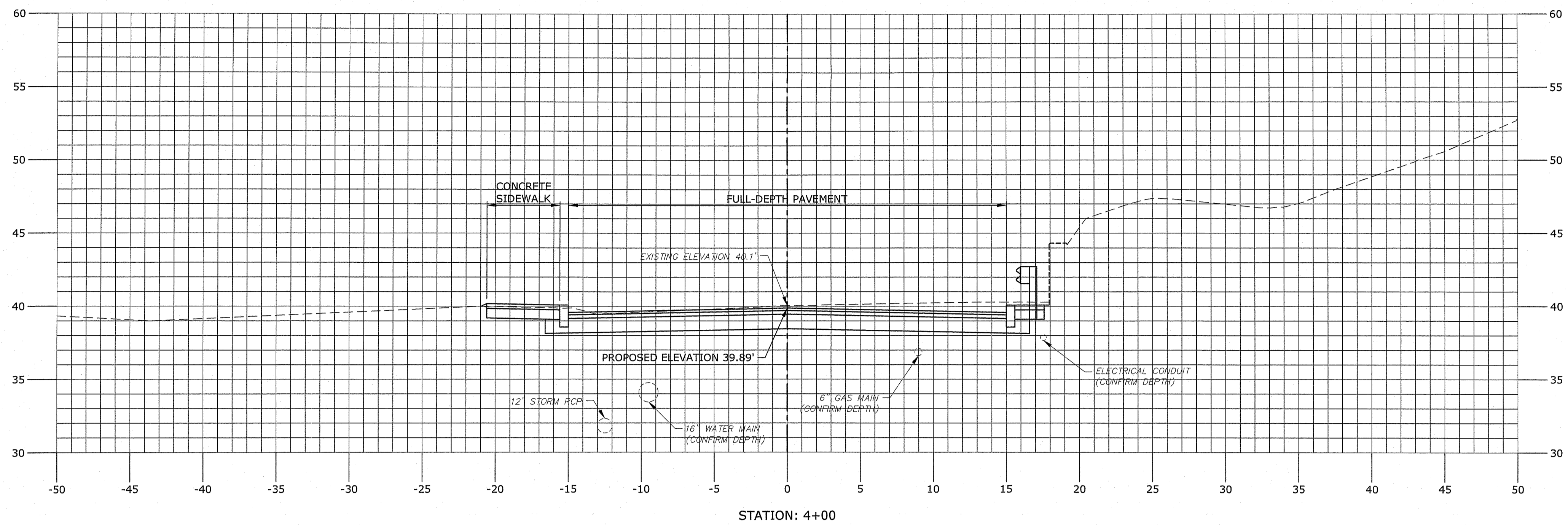
**CROSS-SECTIONS
 STA. 3+25 TO 3+50**

CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 5'

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760



Last Sheet: 6/7/2022
 Plotted On: Jun 03, 2022 5:50pm By: TJWamsor
 Tighe & Bond: J:\Projects\06 Providence\009 Collyer Street Wall Replacement\Drawings_Figures\AutoCAD\Sheet\Fig40-009-XSEC.dwg



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE # 12-0408
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenzel

Environmental Management
 JUN 30 2022

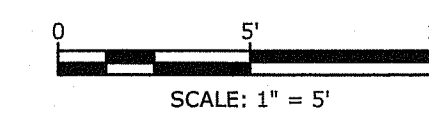
REVISIONS		
NO.	DATE	BY

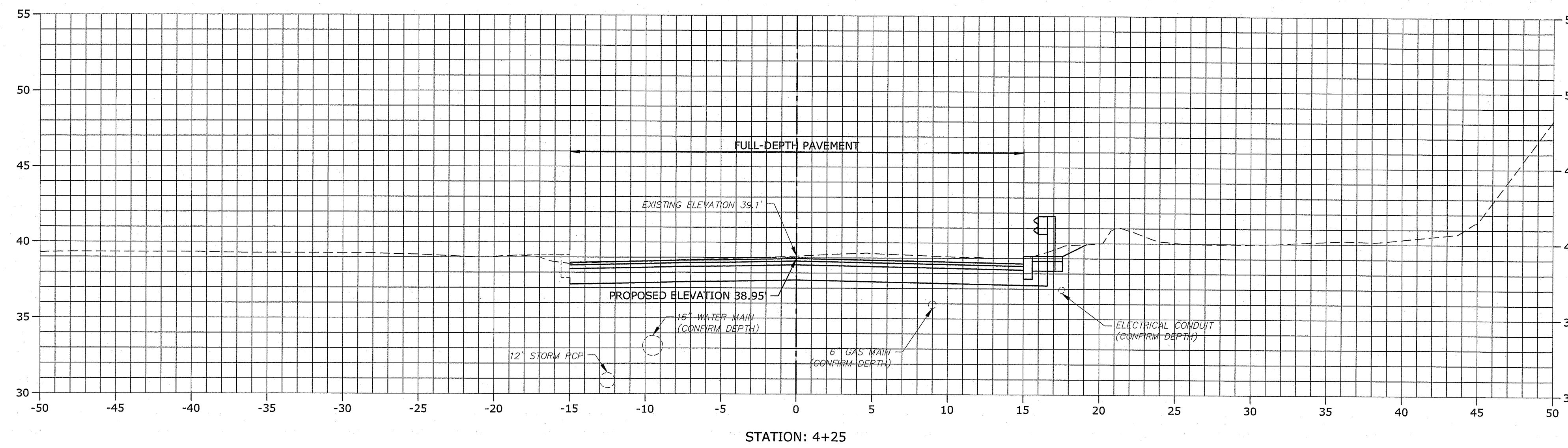
COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI

CROSS-SECTIONS
 STA. 3+75 TO 4+00

CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 5'

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760

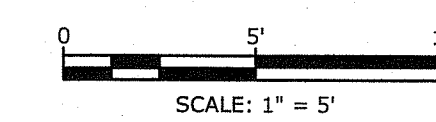




RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE # 22-0108
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wemack

Environmental Management
 JUN 30 2022
 Office of Water Resources



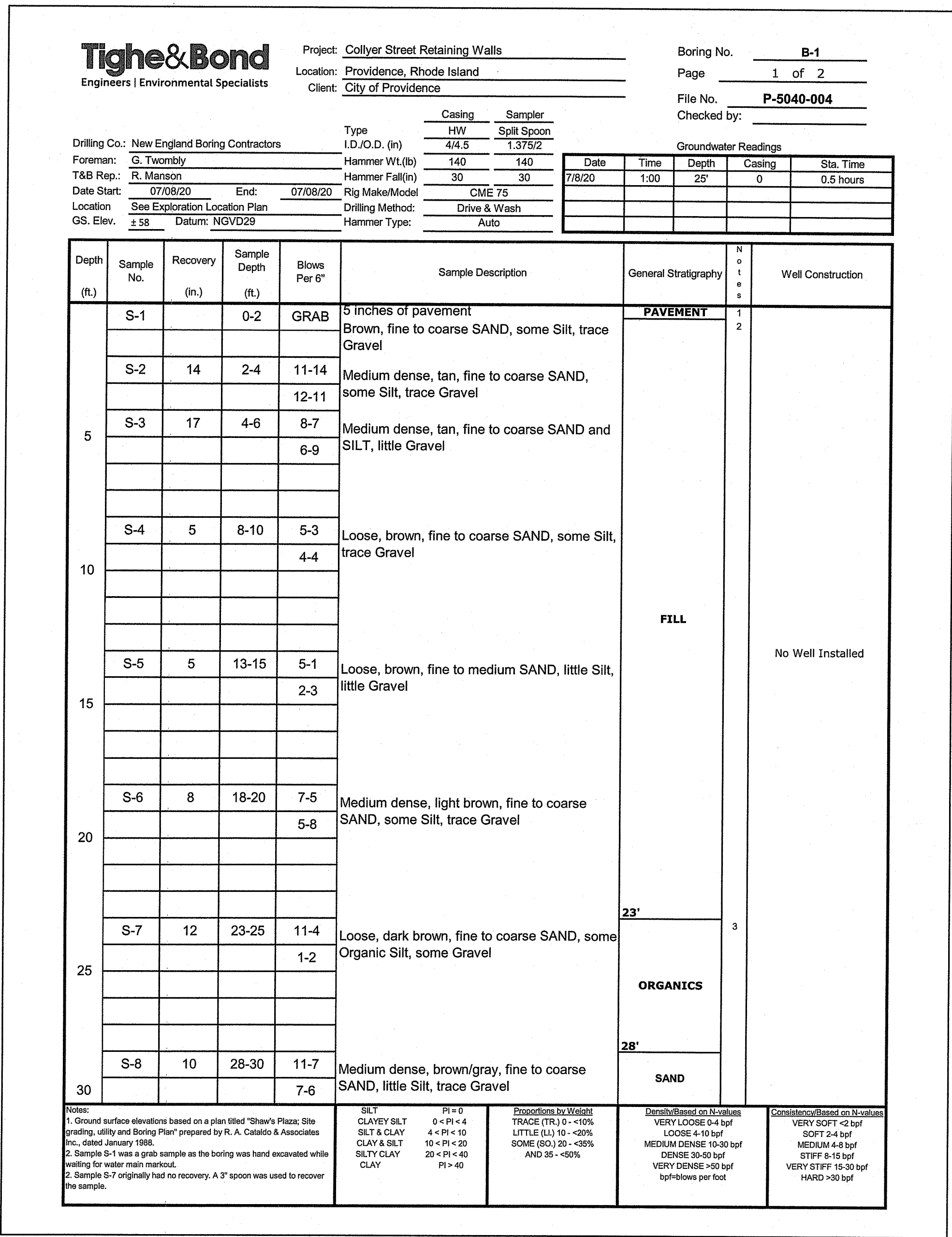
Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760

REVISIONS		
NO.	DATE	BY

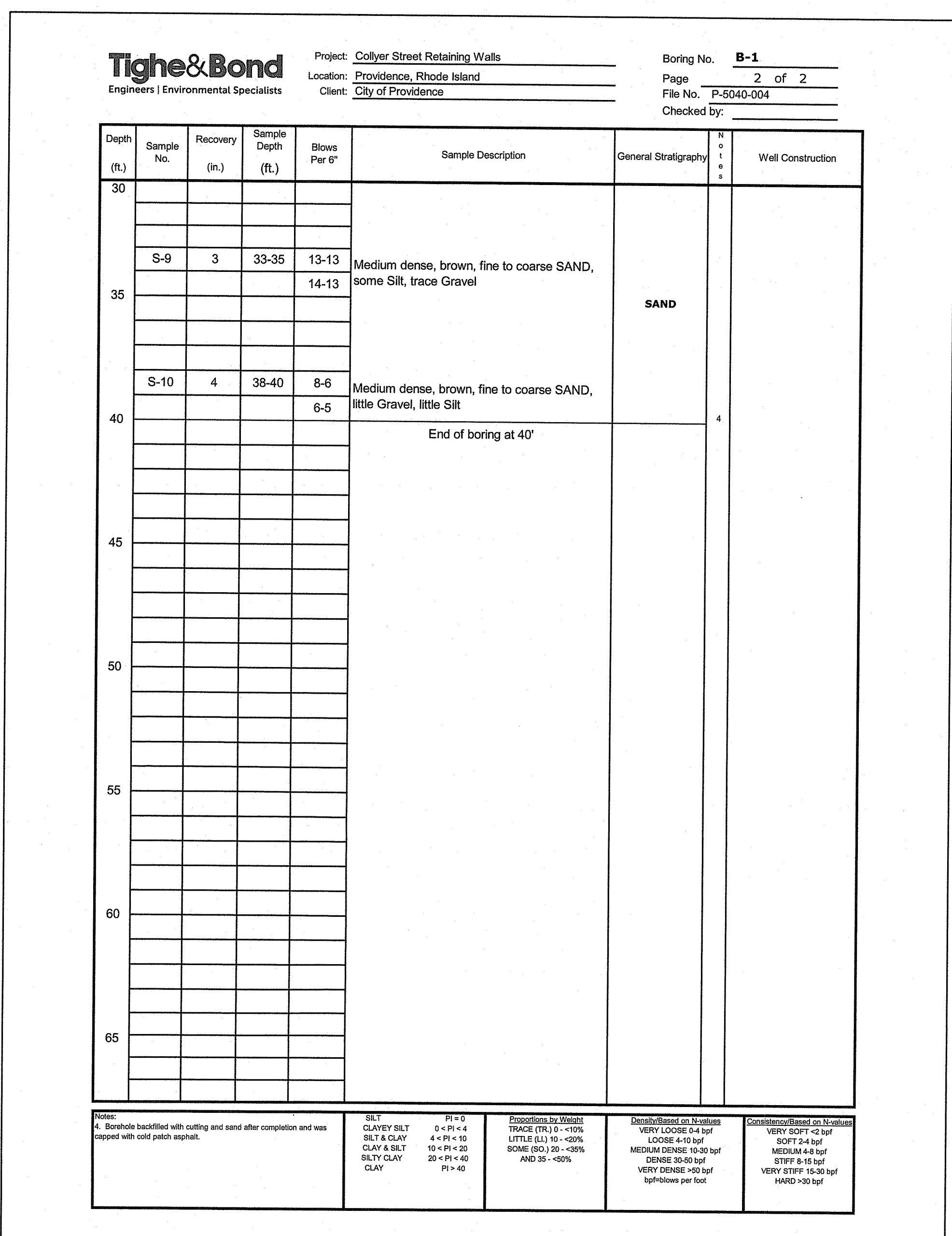
COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI

CROSS-SECTIONS
 STA. 4+25

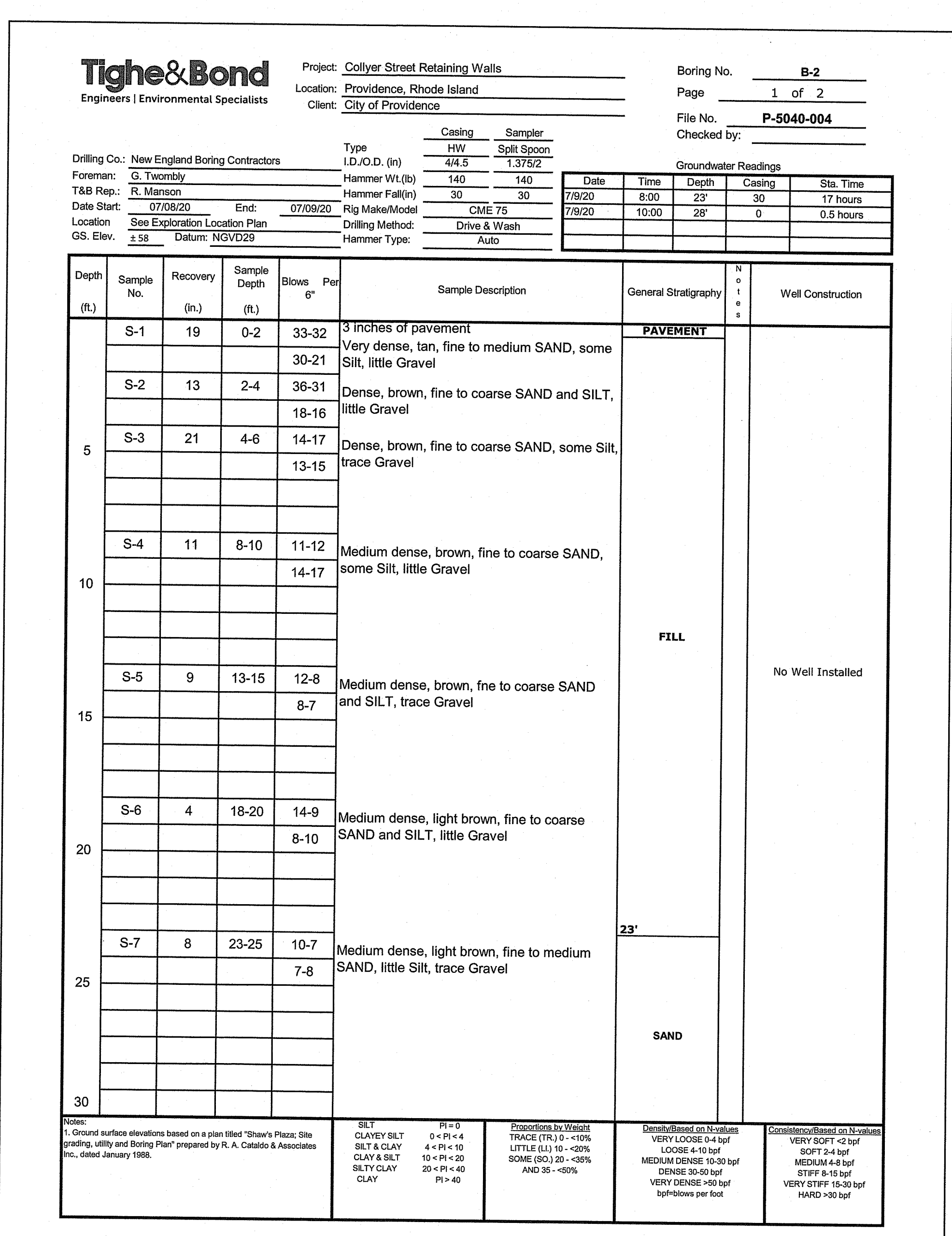
CHECKED BY: JRI DATE: 6/3/2022 SCALE: 1" = 5'



BORING B-1 (1 OF 2)



BORING B-1 (2 OF 2)



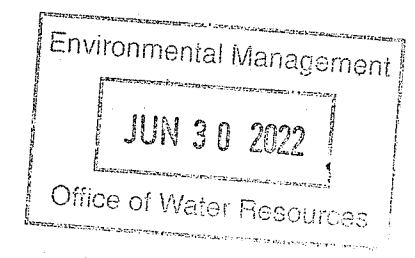
BORING B-2 (1 OF 2)

BORING NOTES

- BORINGS WERE TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
- WATER LEVELS SHOWN ON THE BORING LOGS WERE OBSERVED AT THE TIME OF TAKING BORINGS AND DO NOT NECESSARILY SHOW THE TRUE GROUND WATER LEVEL.
- FIGURES IN COLUMNS INDICATE NUMBER OF BLOWS REQUIRED TO DRIVE A 1 1/8" I.D. SPLIT SPOON SAMPLER 6" USING A 140 POUND WEIGHT FALLING 30".
- BORING SAMPLES ARE STORED AT TIGHE & BOND'S OFFICE, 53 SOUTHAMPTON ROAD, WESTFIELD, MA 01085. THE CONTRACTOR MAY EXAMINE THE SOIL AND ROCK SAMPLES BY CONTACTING THE DESIGN ENGINEER.
- ALL BORINGS WERE DRILLED IN JULY 2020.
- BORINGS WERE DRILLED BY NEW ENGLAND BORING CONTRACTORS OF EAST TAUNTON, MASSACHUSETTS.
- THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1988 IS USED THROUGHOUT.

- GROUNDWATER WAS MEASURED IN THE BORINGS AT THE END OF DRILLING. IT SHOULD BE NOTED THAT GROUNDWATER LEVELS CAN FLUCTUATE WITH SEASON, PRECIPITATION, AND NEARBY CONSTRUCTION OR OTHER BELOW GRADE ACTIVITIES, SUCH AS EXCAVATION, DEWATERING, WELLS, INFILTRATION BASINS, ETC.
- ENGINEERING JUDGEMENT WAS EXERCISED IN PREPARING THE SUBSURFACE INFORMATION PRESENTED HEREIN. ANALYSIS AND INTERPRETATION OF SUBSURFACE DATA WAS PERFORMED FOR DESIGN AND ESTIMATING PURPOSES. PRESENTATION OF THE INFORMATION IN THE CONTRACT IS INTENDED TO PROVIDE THE CONTRACTOR ACCESS TO THE SAME DATA AVAILABLE TO THE OWNER. THE SUBSURFACE INFORMATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION, INDEPENDENT INTERPRETATION, INDEPENDENT ANALYSIS OR JUDGEMENT BY THE CONTRACTOR.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE # 22-0408
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Justin D. Wanecek



REVISIONS		
NO.	DATE	BY

**COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI**

**BORING LOGS AND BORING NOTES
 (SHEET 1 OF 3)**

CHECKED BY: JRI DATE: 6/3/2022 SCALE: NO SCALE

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760

Date Saved: 6/29/2022 2:20pm By: dtshy
 Tighe & Bond: J:\P\5040 Providence\009 Collyer Street Wall Replacement\Drawings - Figures\AutoCAD Sheets\0540-009-BORING.dwg

Tighe & Bond
Engineers | Environmental Specialists

Project: Collyer Street Retaining Walls
Location: Providence, Rhode Island
Client: City of Providence

Boring No. **B-4**
Page 1 of 1
File No. **P-5040-004**
Checked by: _____

Drilling Co.: New England Boring Contractors	Type: HW	Casing I.D./O.D. (in): 4/4.5	Sampler: Split Spoon	Groundwater Readings	
Foreman: G. Twombly	Hammer Wt.(lb): 140	140		Date	Time
T&B Rep.: R. Manson	Hammer Fall(ft): 30	30		Depth	Casing
Date Start: 07/09/20	End: 07/09/20			Sta. Time	
Location: See Exploration Location Plan	Rig Make/Model: CME 75			Groundwater not encountered	
GS. Elev. ± 56 Datum: NGVD29	Drilling Method: Drive & Wash				
	Hammer Type: Auto				

Depth (ft.)	Sample No.	Recovery (in.)	Sample Depth (ft.)	Blows Per 5'	Sample Description	General Stratigraphy	N o t e s	Well Construction
	S-1	14	0-2	29-19	3 inches of pavement	PAVEMENT		
				31-38	Very dense, brown, fine to medium SAND and SILT, little Gravel			
	S-2	21	2-4	30-28	Very dense, brown, fine to medium SAND and SILT, little Gravel			
				30-35				
5	S-3	22	4-6	28-22	Dense, tan, fine to medium SAND, some Silt, trace Gravel			
				20-18				
	S-4	6	8-10	13-13	Medium dense, brown, fine to coarse SAND, some Silt, little Gravel	FILL		No Well Installed
10				8-6				
	S-5	8	13-15	14-8	Medium dense, dark brown, fine to coarse SAND and Clayey SILT, little Gravel			
				6-6				
15					End of boring at 15'			
20								
25								
30								

Notes: 1. Ground surface elevations based on a plan titled "Shaft's Plaza: Site grading, utility and Boring Plan" prepared by R. A. Cataldo & Associates Inc. dated January 1988.
 2. Screen(s) backfilled with cutting and sand after completion and was capped with cold patch asphalt.

SILT & CLAY CLAY & SILT SILTY CLAY CLAY	PI = 0 0 < PI < 4 4 < PI < 10 10 < PI < 20 20 < PI < 40 PI > 40	Proportions by Weight TRACE (TR) 0 - <10% LITTLE (L) 10 - <20% SOME (SD) 20 - <35% AND 35 - <50%	Density Based on N-values VERY LOOSE 0-4 bpf LOOSE 4-10 bpf MEDIUM DENSE 10-30 bpf DENSE 30-40 bpf VERY DENSE >40 bpf bpf=blows per foot	Consistency Based on N-values VERY SOFT <2 bpf SOFT 2-4 bpf MEDIUM 4-8 bpf STIFF 8-15 bpf VERY STIFF 15-30 bpf HARD >30 bpf
--	--	--	--	---

BORING 4 (1 OF 1)

- BORING NOTES**
- SEE BORING LOGS AND BORING NOTES (SHEET 1 OF 3) FOR BORING NOTES.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: 6/3/2022 FILE #: 22-0408
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Yvonne B. Weneck

Environmental Management
 JUN 30 2022

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760

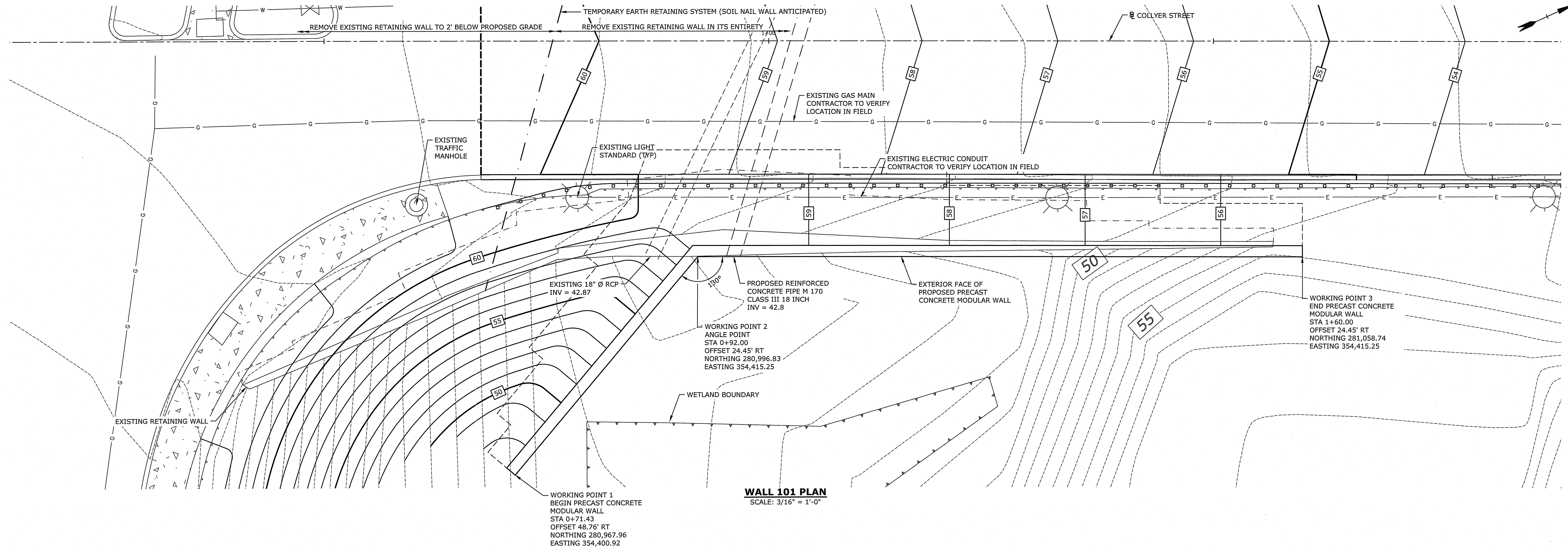
REVISIONS		
NO.	DATE	BY

**COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI**

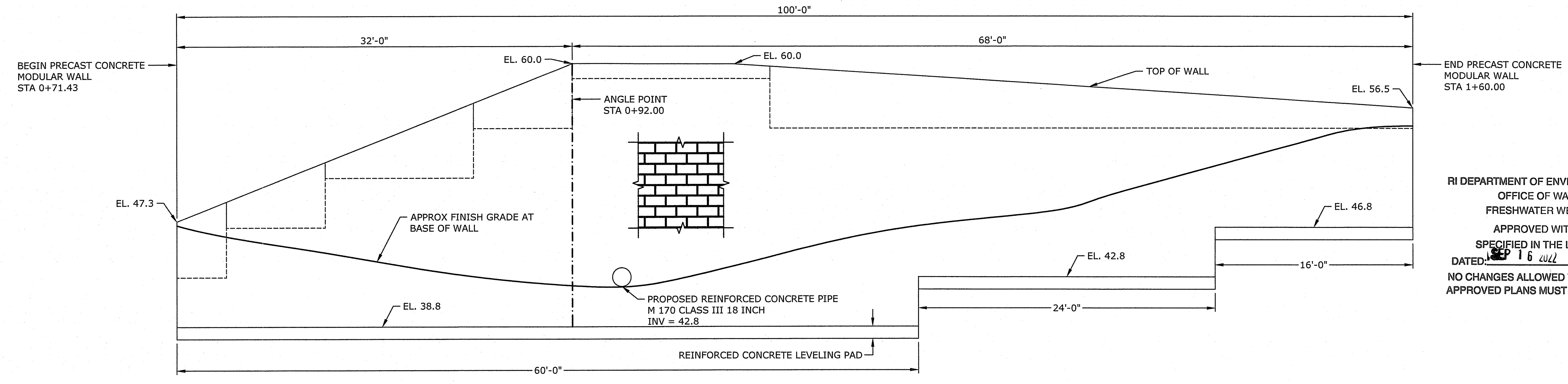
**BORING LOGS AND BORING NOTES
 (SHEET 3 OF 3)**

CHECKED BY: JRI DATE: 6/3/2022 SCALE: NO SCALE

Last Saved: 6/3/2022 9:20:30 AM By: JRB
 Tighe & Bond: J:\P5040 Providence\059 Collyer Street Wall Replacement\Drawings_Figures\AutoCAD\Sheet\P5040-009-BORING.dwg



WALL 101 PLAN
SCALE: 3/16" = 1'-0"



WALL 101 DEVELOPED ELEVATION
SCALE: 3/16" = 1'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED 6/16/2022 FILE # 22-0908
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenzel

Environmental Management
JUN 30 2022
Office of Water Resources

NOTE:
1. REINFORCED CONCRETE LEVELING PAD TO BE PAID FOR UNDER THE ITEM "PRECAST CONCRETE MODULAR WALL."

Tighe & Bond
213 Court Street
Suite 1100
Middletown, CT 06457
(860) 704-4760

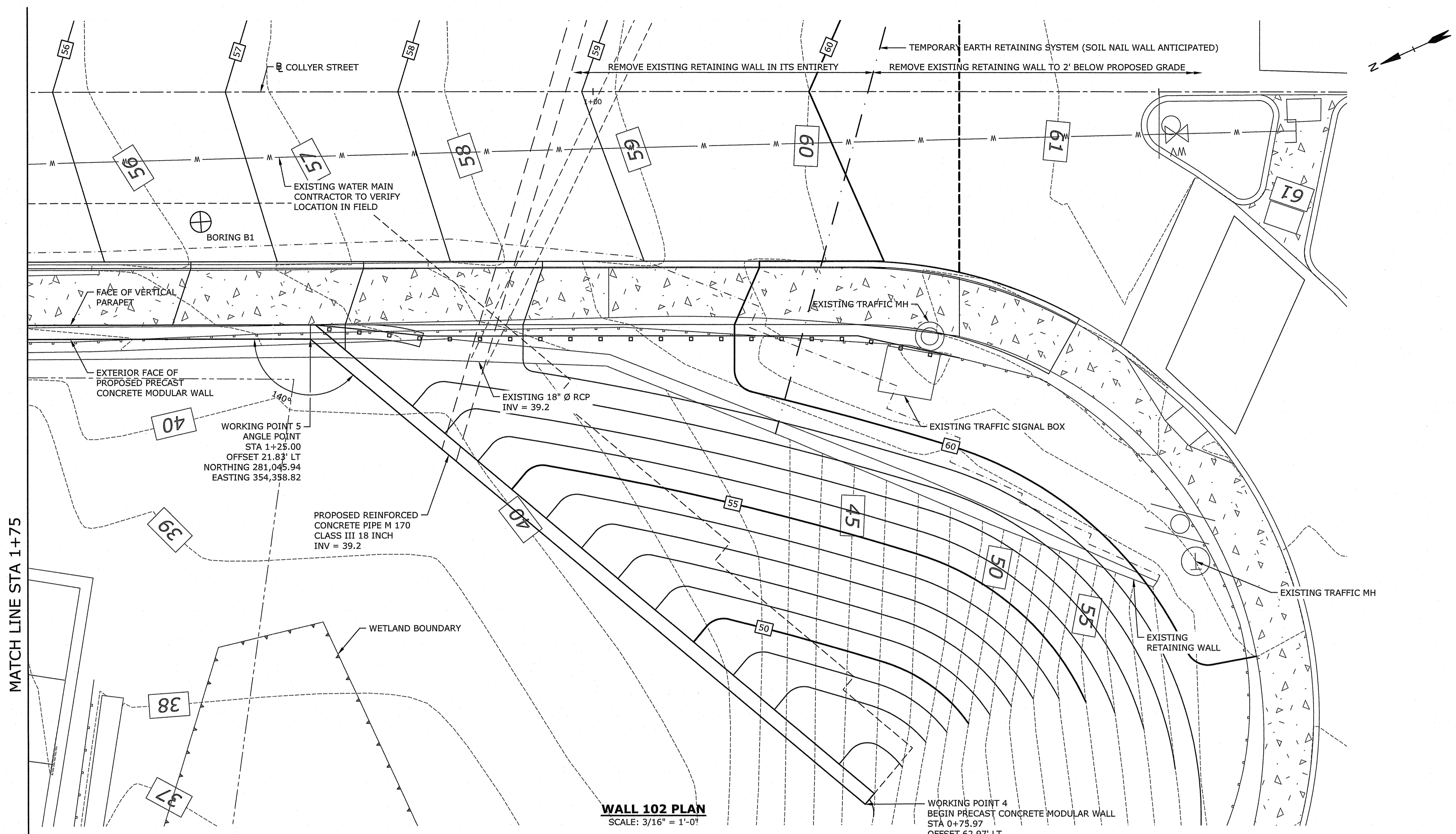
REVISIONS		
NO.	DATE	BY

**COLLYER STREET
RETAINING WALL REPLACEMENT
PROVIDENCE, RI**

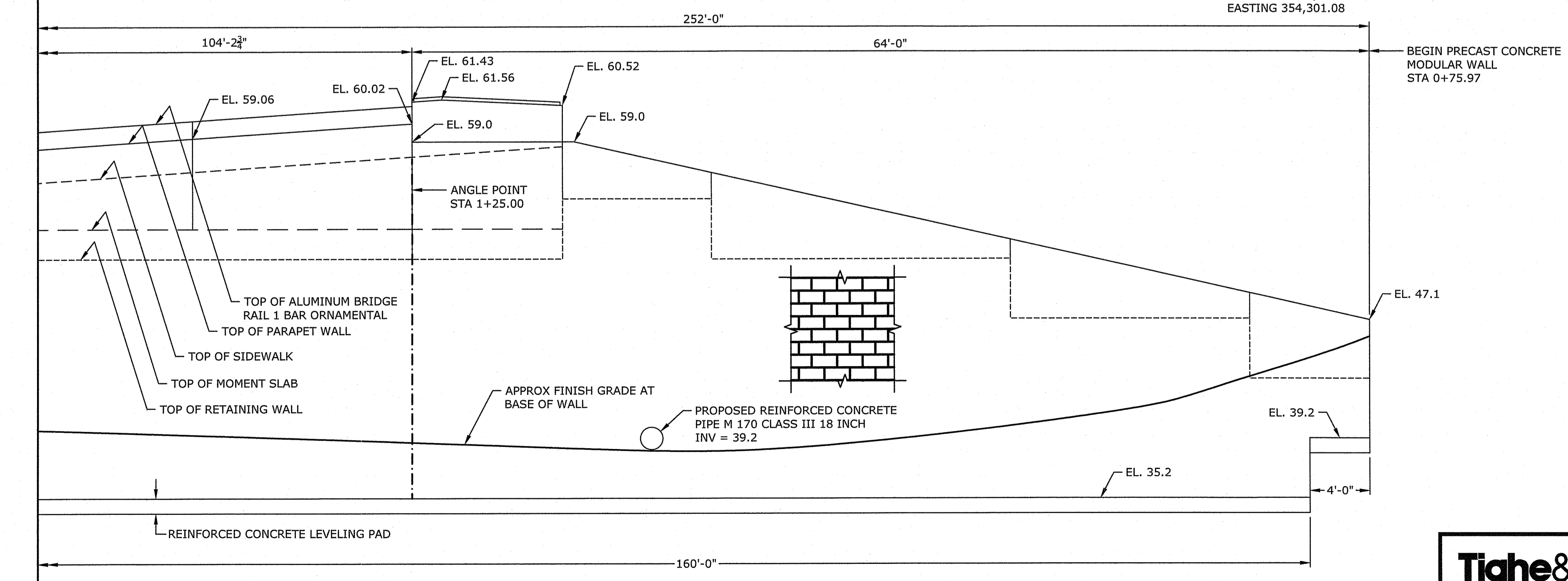
**RETAINING WALL 101
PLAN AND ELEVATION**

CHECKED BY: JRI DATE: 6/3/2022 SCALE: AS SHOWN

Last Saved: 6/3/2022, 3:22pm By: P. Kelly Tighe & Bond LLP P5040 Providence,009 Collyer Street Wall Replacement Drawings - Figures AutoCAD Sheet P5040-009-S-PLAN/ELEV.dwg



WALL 102 PLAN
SCALE: 3/16" = 1'-0"



WALL 102 DEVELOPED ELEVATION
SCALE: 3/16" = 1'-0"

- NOTE:**
1. REINFORCED CONCRETE LEVELING PAD TO BE PAID FOR UNDER THE ITEM "PRECAST CONCRETE MODULAR WALL."

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 16 2022 FILE #: 22-0408
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Semack

Environmental Management
Office of Water Resources
JUN 30 2022

Tighe & Bond
213 Court Street
Suite 1100
Middletown, CT 06457
(860) 704-4760

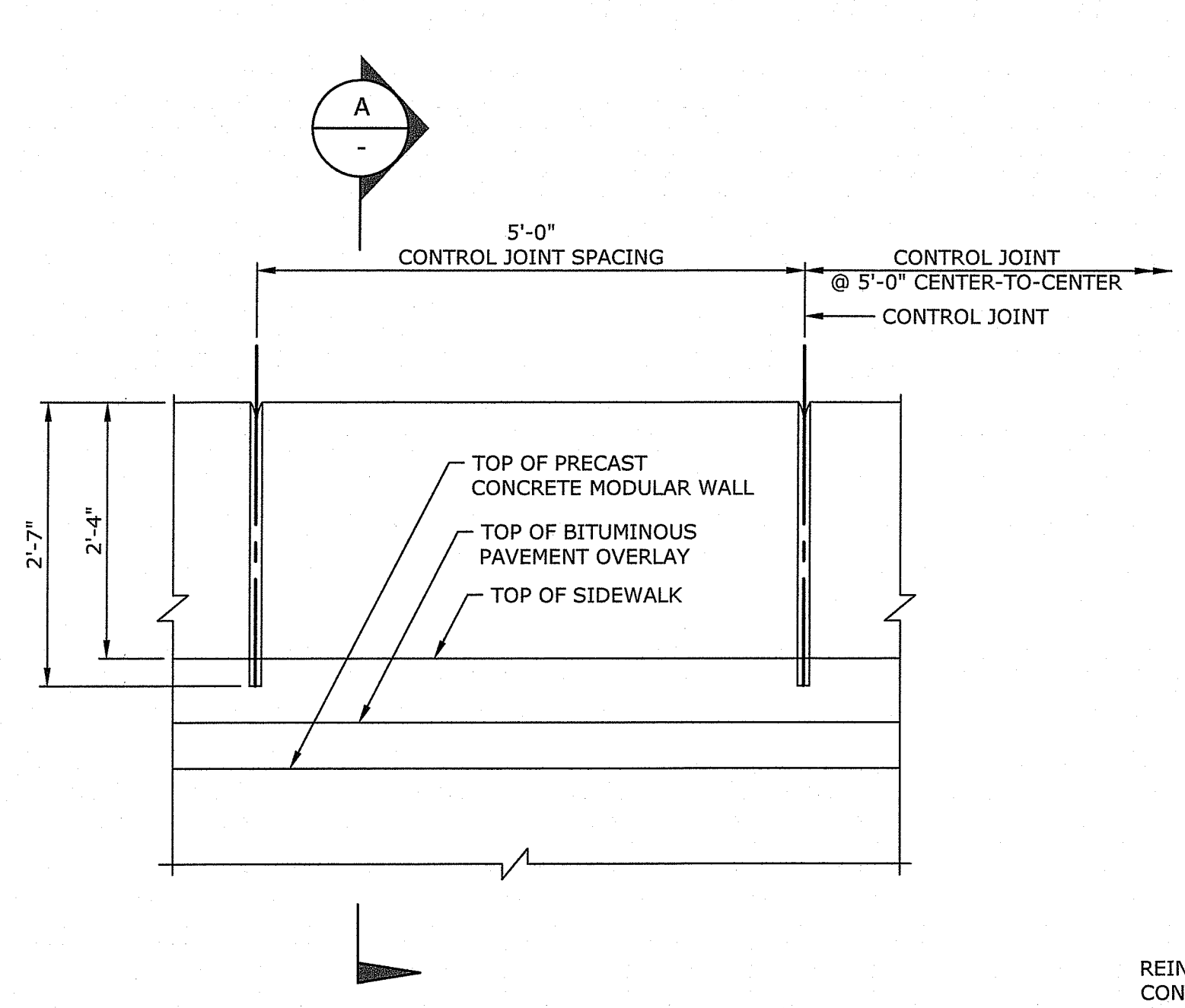
REVISIONS		
NO.	DATE	BY

**COLLYER STREET
RETAINING WALL REPLACEMENT
PROVIDENCE, RI**

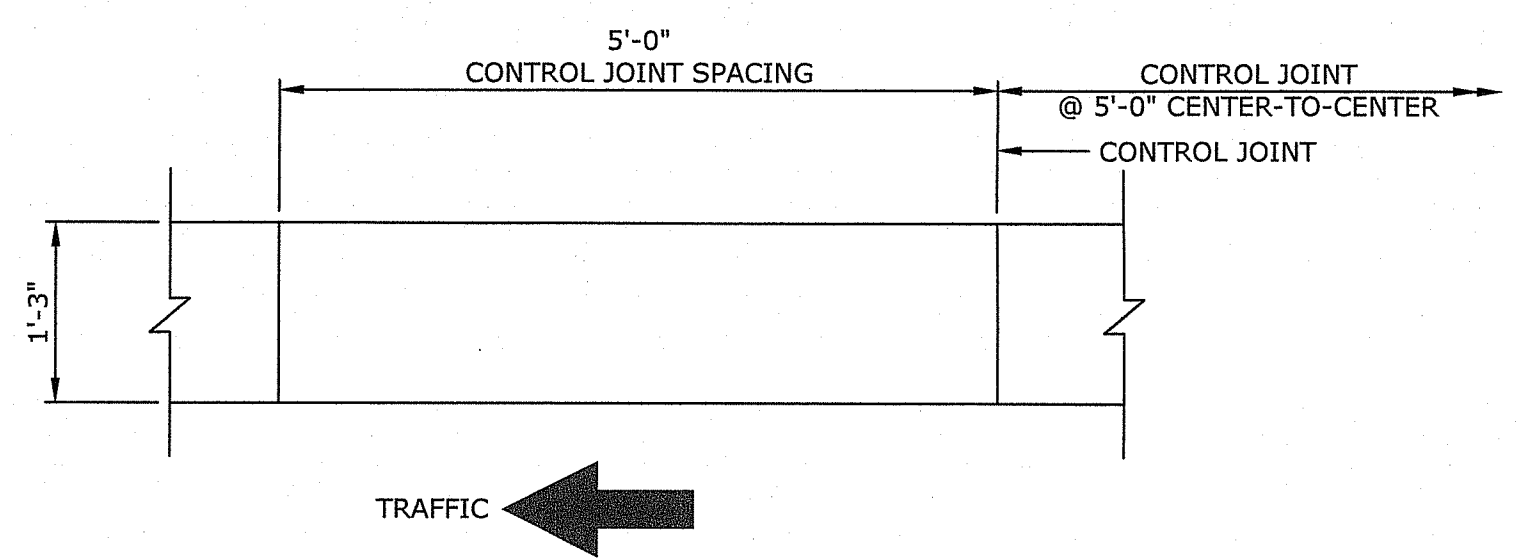
**RETAINING WALL 102
PLAN AND ELEVATION
(SHEET 2 OF 2)**

CHECKED BY: JRI DATE: 6/3/2022 SCALE: AS SHOWN

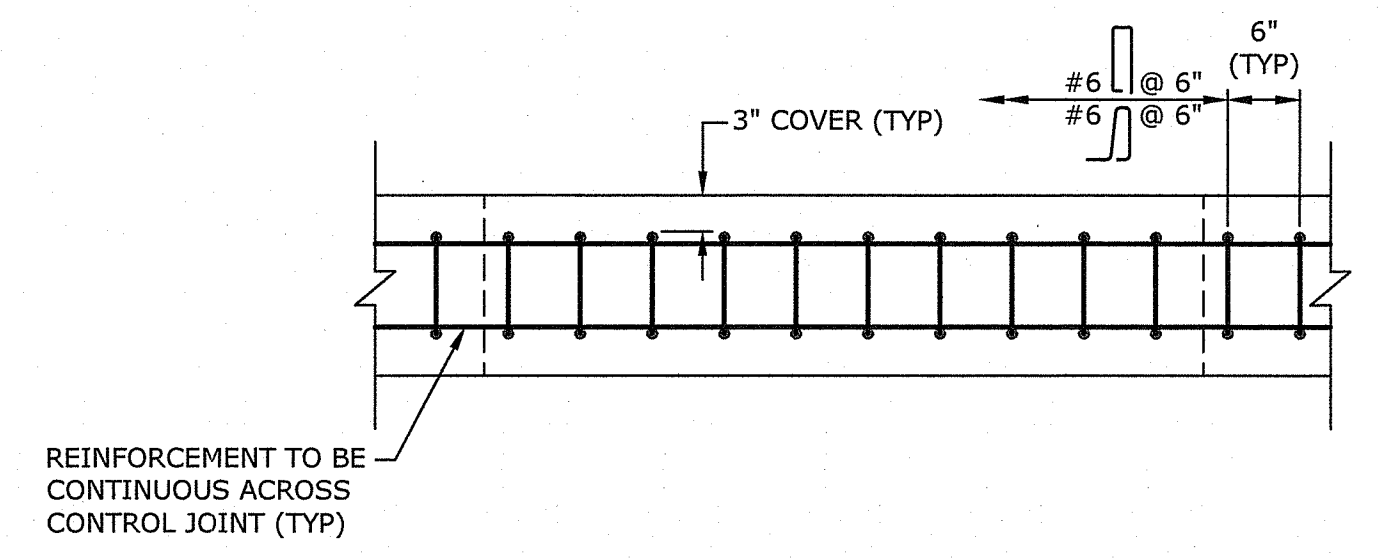
Last Saved: 6/3/2022 3:22pm By: D'Elia
 Plotted On: Jun 03, 2022 3:22pm
 Tighe & Bond: J:\P5040 Providence\09 Collyer Street Wall Replacement\Drawings_Figures\AutoCAD\Sheet\PS040-09S-PLAN&ELEV.dwg



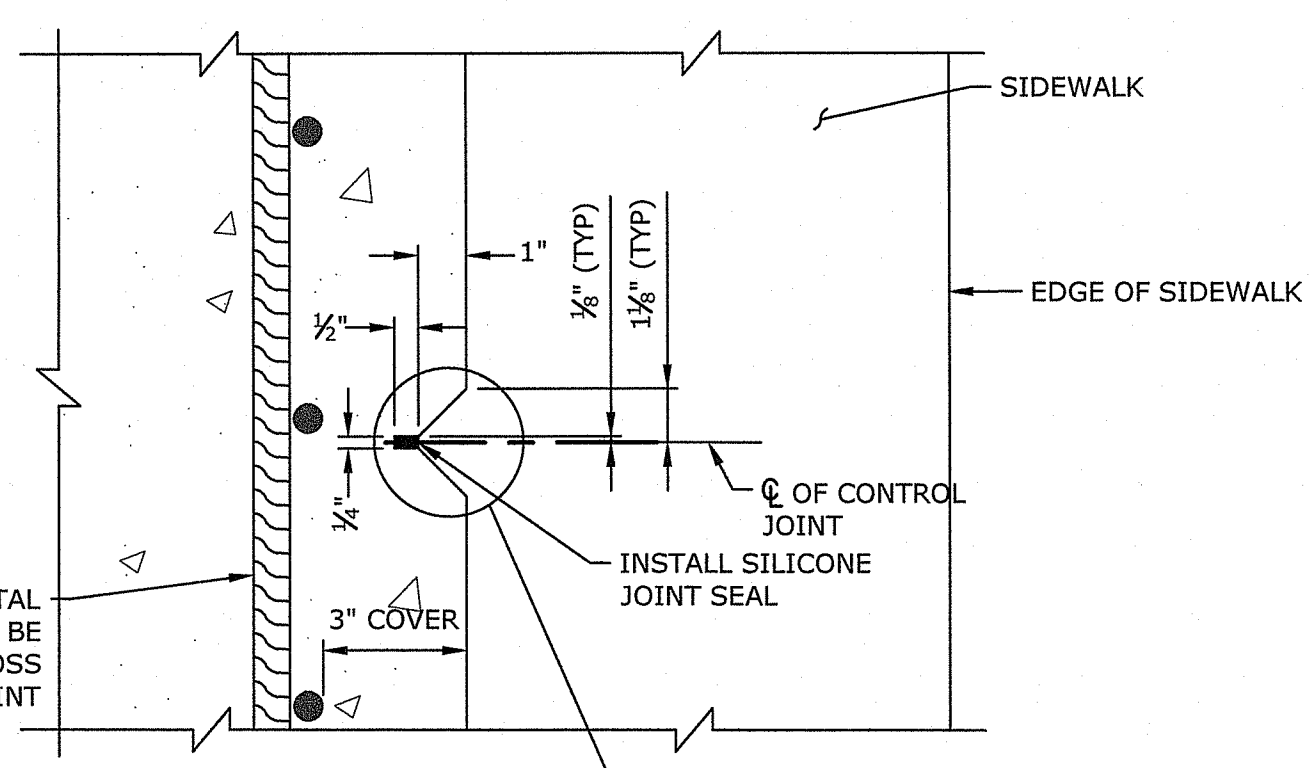
PARTIAL ELEVATION
SCALE: 3/4" = 1'-0"



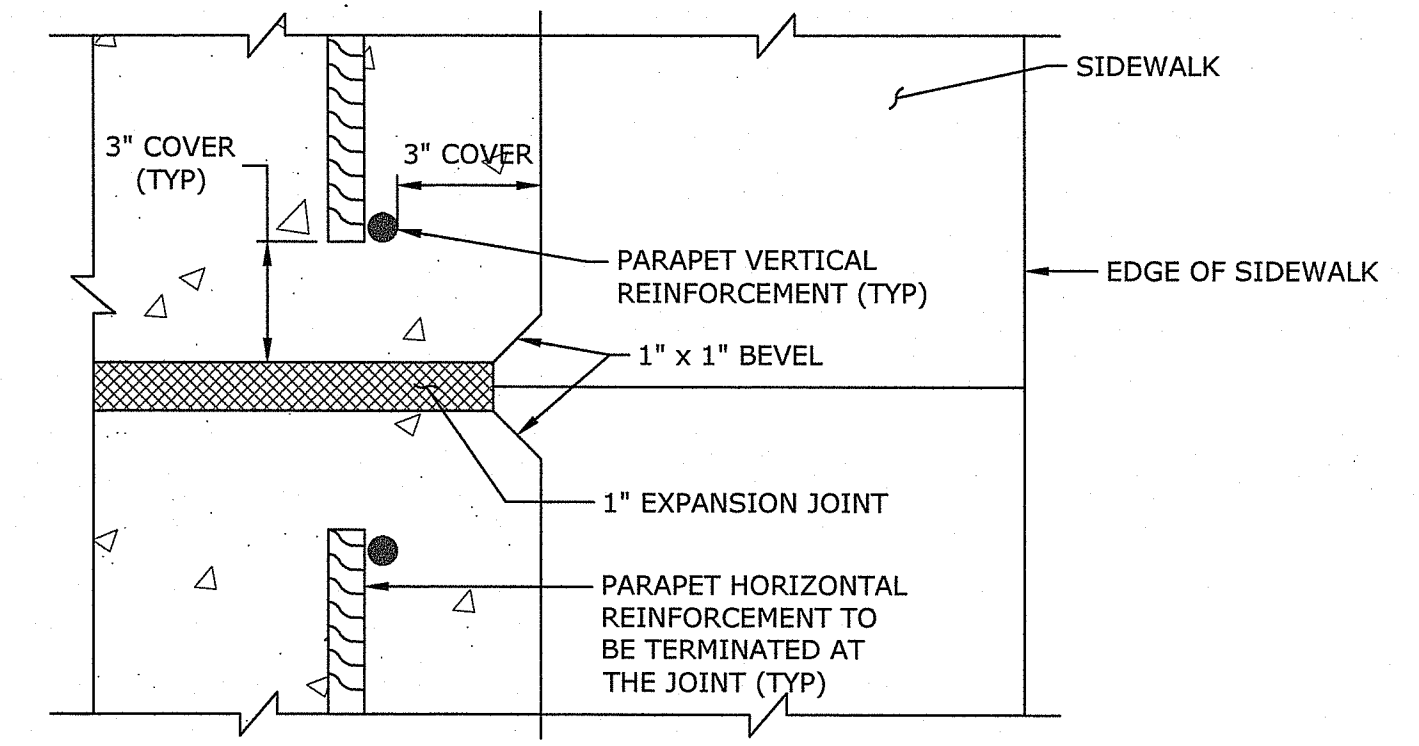
PARTIAL PLAN
SCALE: 3/4" = 1'-0"



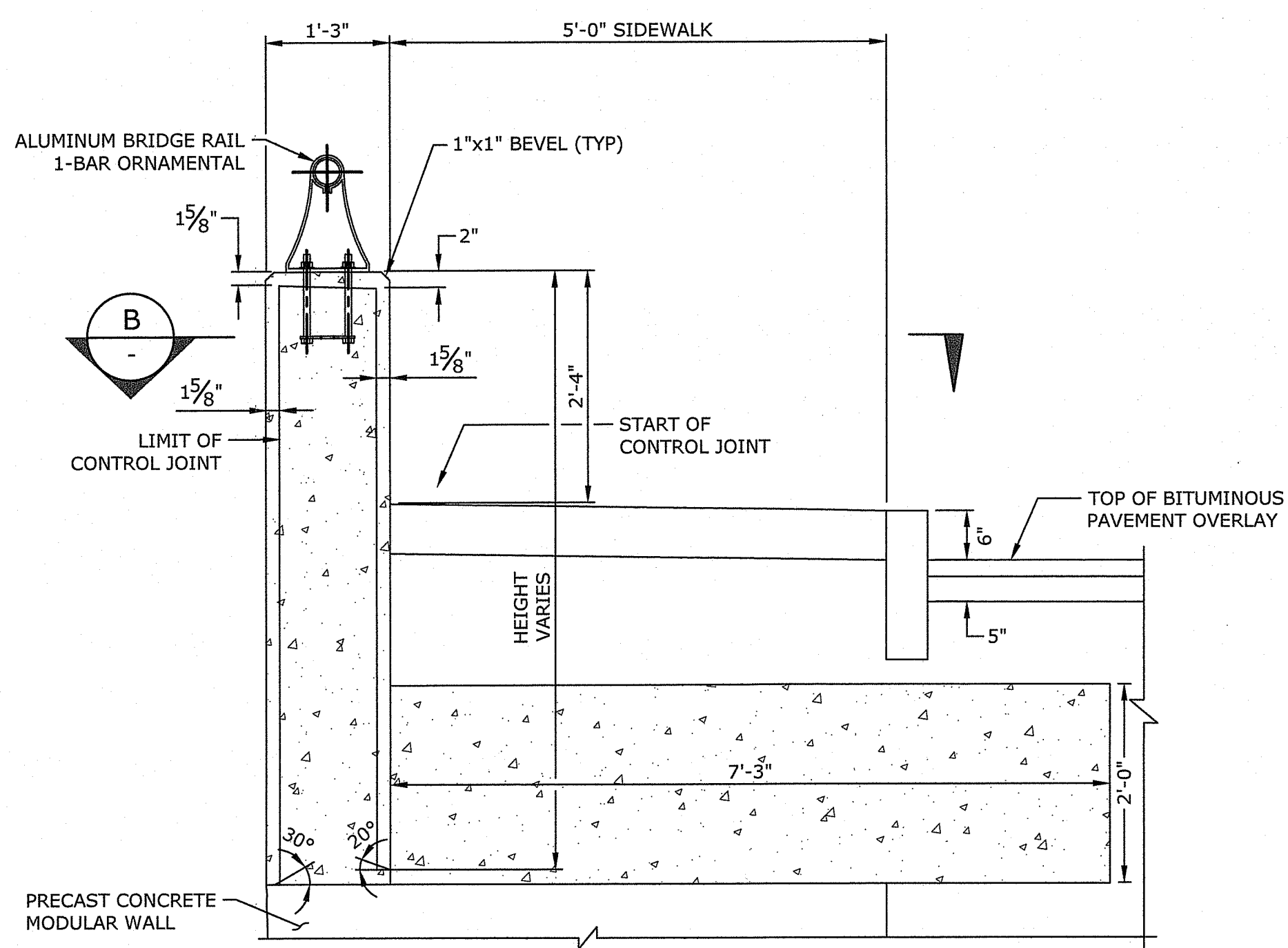
REINFORCING PLAN
SCALE: 3/4" = 1'-0"



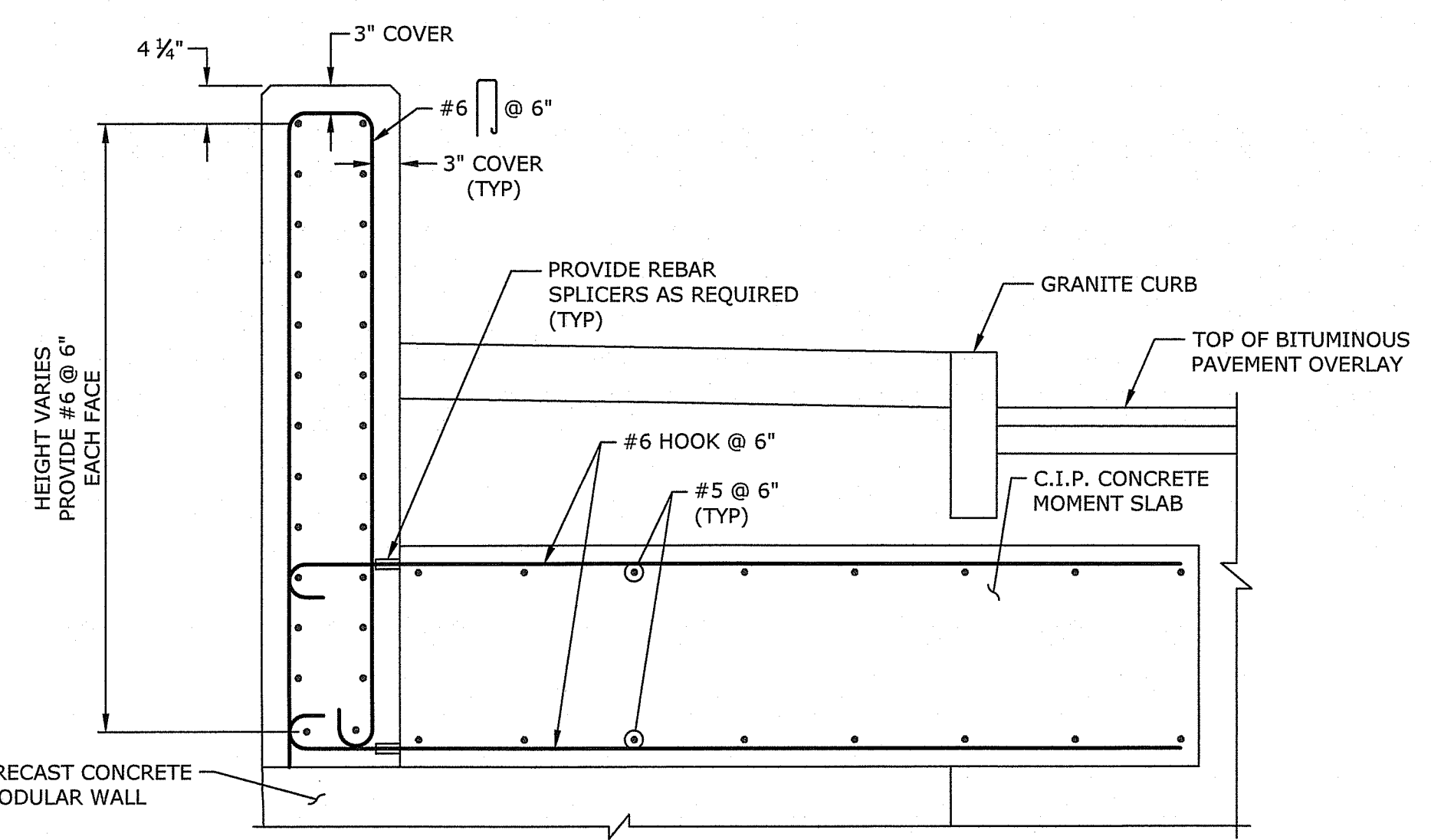
PLAN SECTION - CONTROL JOINT DETAIL
NOT TO SCALE



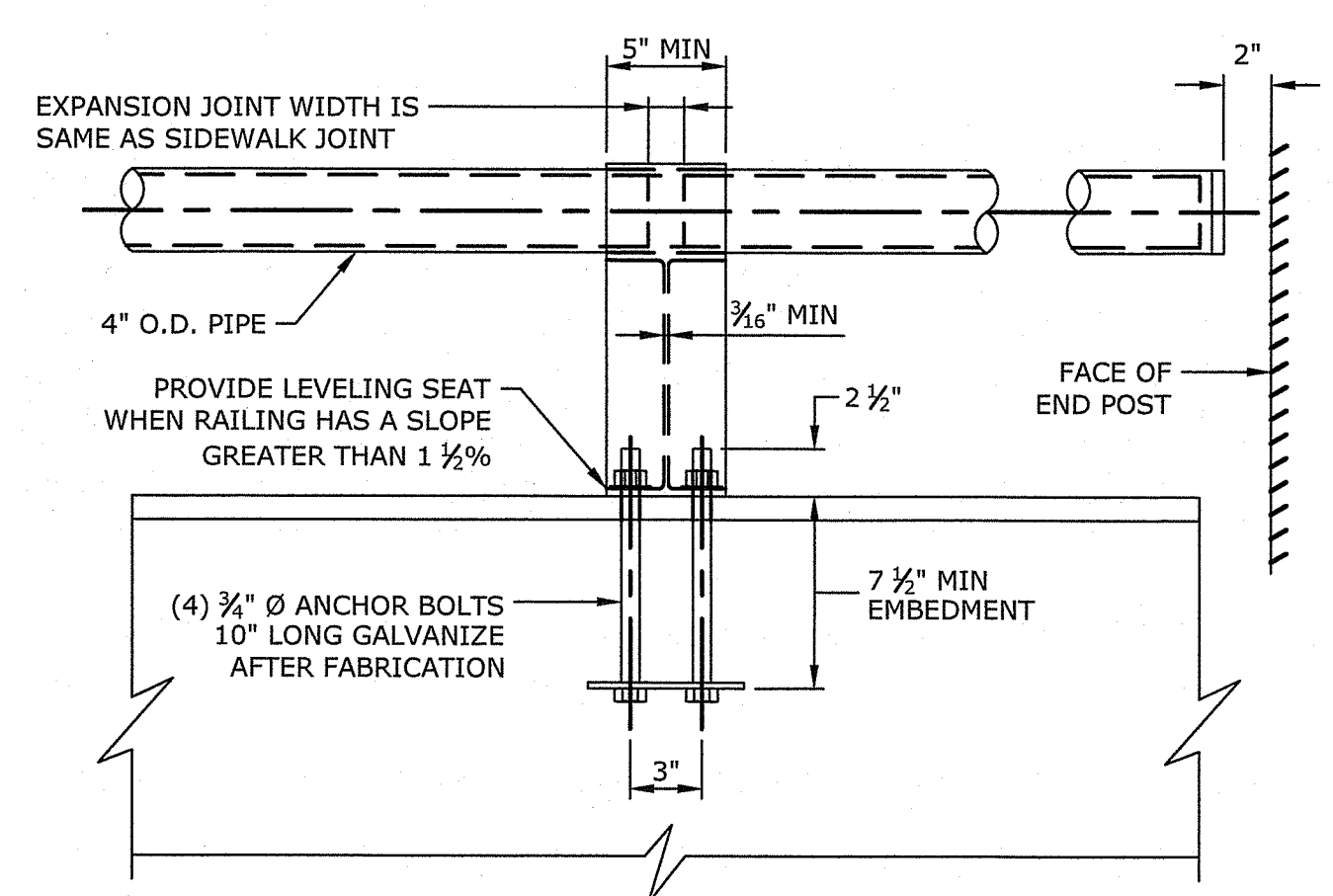
PLAN SECTION - PARAPET JOINT DETAIL
NOT TO SCALE



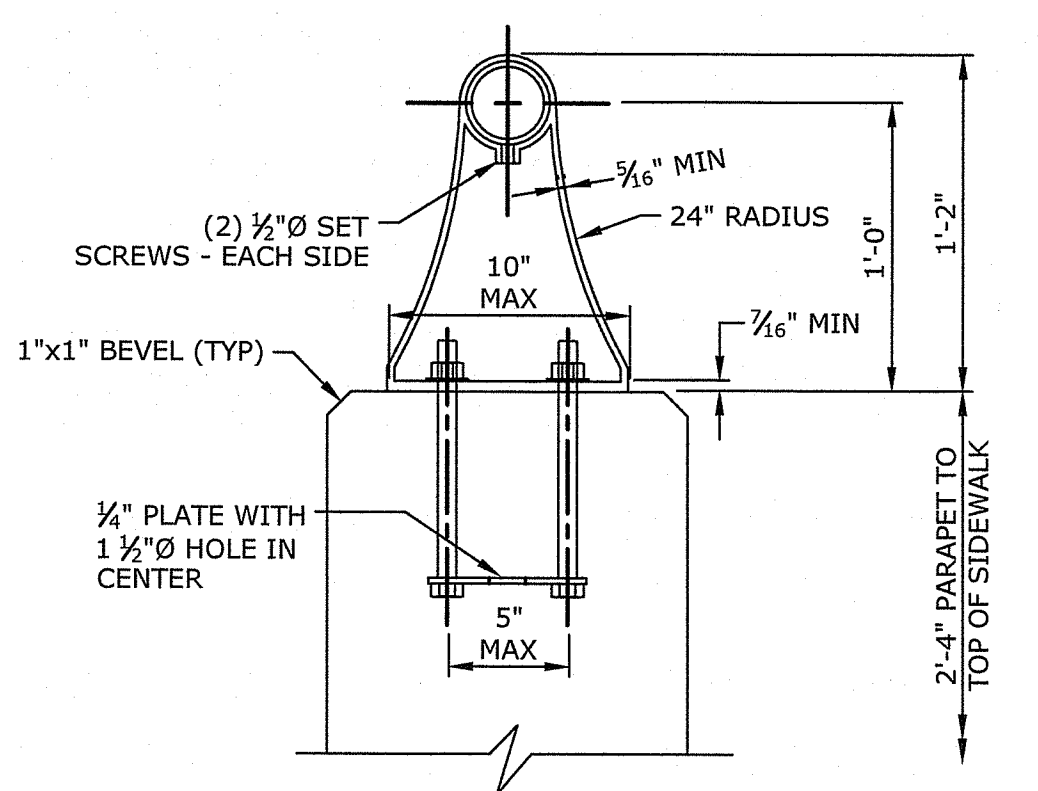
SECTION - VERTICAL PARAPET WITH SIDEWALK
SCALE: 3/4" = 1'-0"



SECTION - VERTICAL PARAPET WITH SIDEWALK
SCALE: 3/4" = 1'-0"



ELEVATION



SECTION

ALUMINUM BRIDGE RAIL 1-BAR ORNAMENTAL
SCALE: 1 1/2" = 1'-0"

NOTES:

- ALUMINUM BRIDGE RAIL 1-BAR ORNAMENTAL NOT SHOWN FOR CLARITY.
- REINFORCEMENT IN PREFABRICATED MODULAR WALL NOT SHOWN FOR CLARITY. CONTRACTOR TO COORDINATE SIDEWALK REINFORCING EMBEDMENT AND CONNECTION WITH FINAL DESIGN OF PREFABRICATED MODULAR WALL UNITS.

NOTES:

- ALL ALUMINUM IN CONTACT WITH CONCRETE OR STEEL SURFACES SHALL BE THOROUGHLY COATED WITH APPROVED ALUMINUM IMPREGNATED CAULKING COMPOUND.
- THE POSTS SHALL BE CAST ALUMINUM ALLOYS A 444.0-T4, A356.0-T61 OR A356.0-T6.
- THE RAILS SHALL BE 4 INCH O.D. X 1/8 INCH WALL THICKNESS, ALUMINUM ALLOYS 6061-T6, 6063-T6 OR 6351-T5.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 16 2022 FILE # 22-0408
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Justin W. W...

Environmental Management
JUN 30 2022

REVISIONS		
NO.	DATE	BY

Tighe & Bond
213 Court Street
Suite 1100
Middletown, CT 06457
(860) 704-4760

COLLYER STREET
RETAINING WALL REPLACEMENT
PROVIDENCE, RI

VERTICAL SHAPE PARAPET DETAILS

CHECKED BY: JRI DATE: 6/3/2022 SCALE: AS SHOWN

Last Saved: 6/2/2022 10:23:25am By: Dlethy
Tighe & Bond: J:\P5040 Providence\009 Collyer Street Wall Replacement\Drawings_Figures\AutoCAD\Sheet\PS040-009-S-BARRIER.dwg

GENERAL NOTES

1. REMOVE AND REUSE INDICATED LIGHT POLES AND ASSOCIATED HARDWARE. RESET LIGHT POLES PER RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD 18.1.0 AS SHOWN. REUSE EXISTING CONDUIT AND WIRE.
2. REFER TO THE CIVIL DRAWINGS FOR THE EXACT LOCATION OF ALL SITE LIGHTING, SIGNS, ETC.
3. SITE LIGHTING POLE BASES SHALL BE FURNISHED BY THE EC, INSTALLED BY THE GC.
4. ALL CONCRETE WORK SHALL BE BY THE GC.

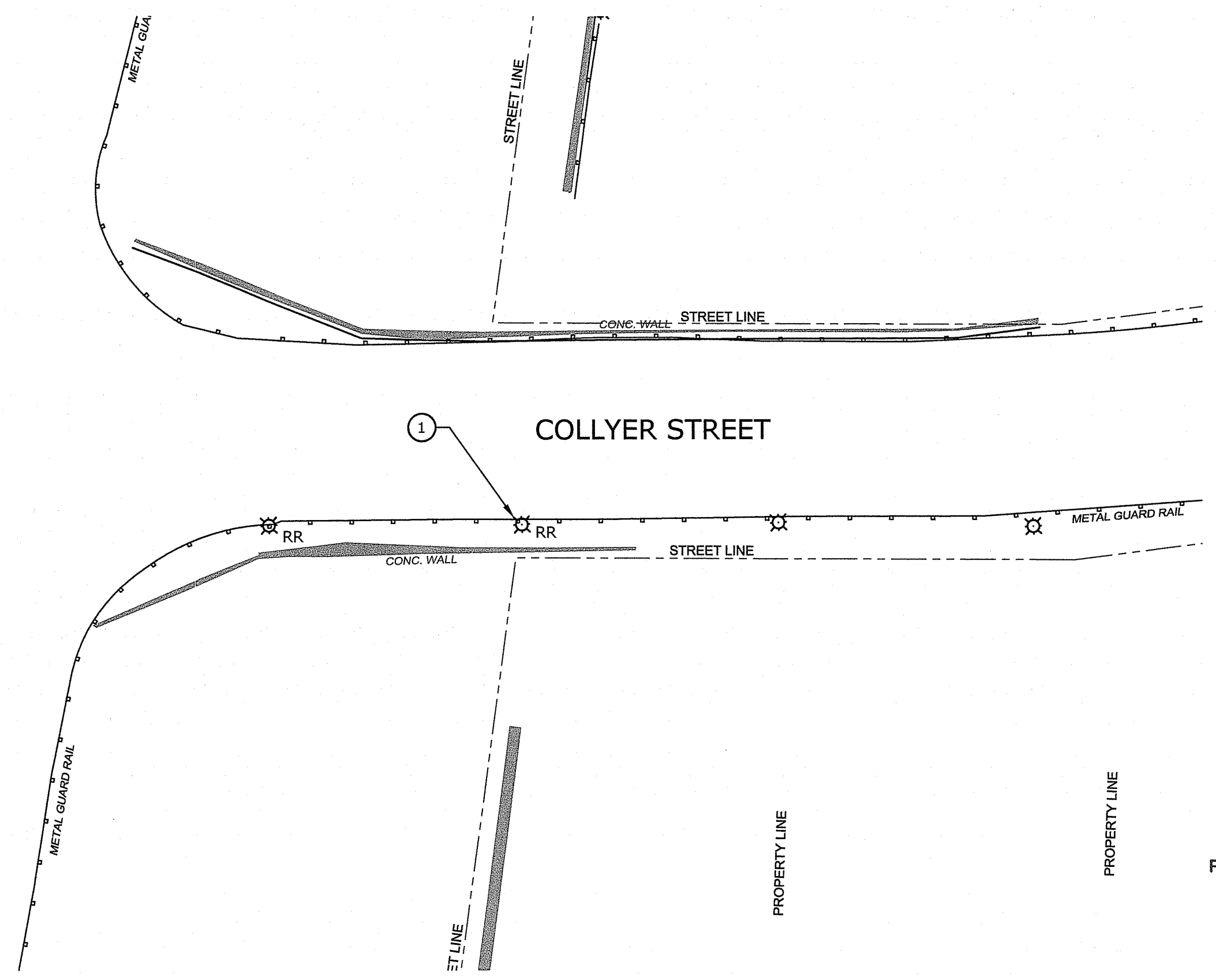
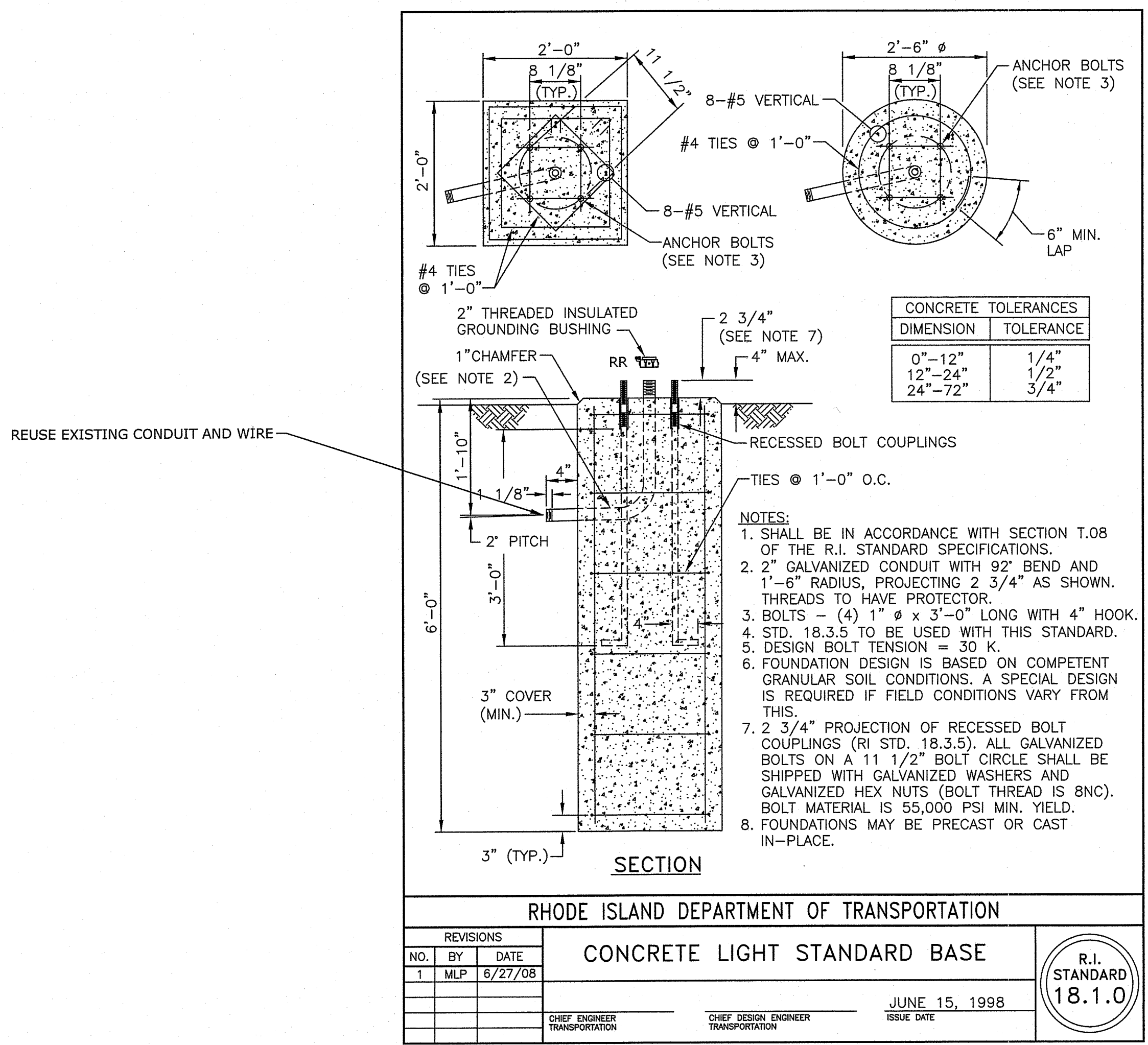
DEMOLITION LEGEND

"RR" EXISTING DEVICE TO BE REMOVED, RELOCATED AND REUSED.

ELECTRICAL KEY NOTES

1. DISCONNECT AND TEMPORARILY REMOVE EXISTING LIGHT POLE FOR BASE TO BE DEMOLISHED. CONDUIT AND WIRE SHALL BE CAPPED DURING CONSTRUCTION AND REUSED FOR FINAL CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL VERIFY ORIGIN OF CIRCUIT AND PANEL LOCATION IN THE FIELD.

EXISTING LIGHT POLE SHALL BE RESET ON NEW POLE BASE. INTERCEPT, MODIFY, AND EXTEND EXISTING WIRING AND CONDUIT AS REQUIRED. ANY NEW CONDUIT OR WIRE SHALL MATCH EXISTING.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2011 FILE # 22-0408
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenzel

Environmental Management
 JUN 30 2022
 Office of Water Resources

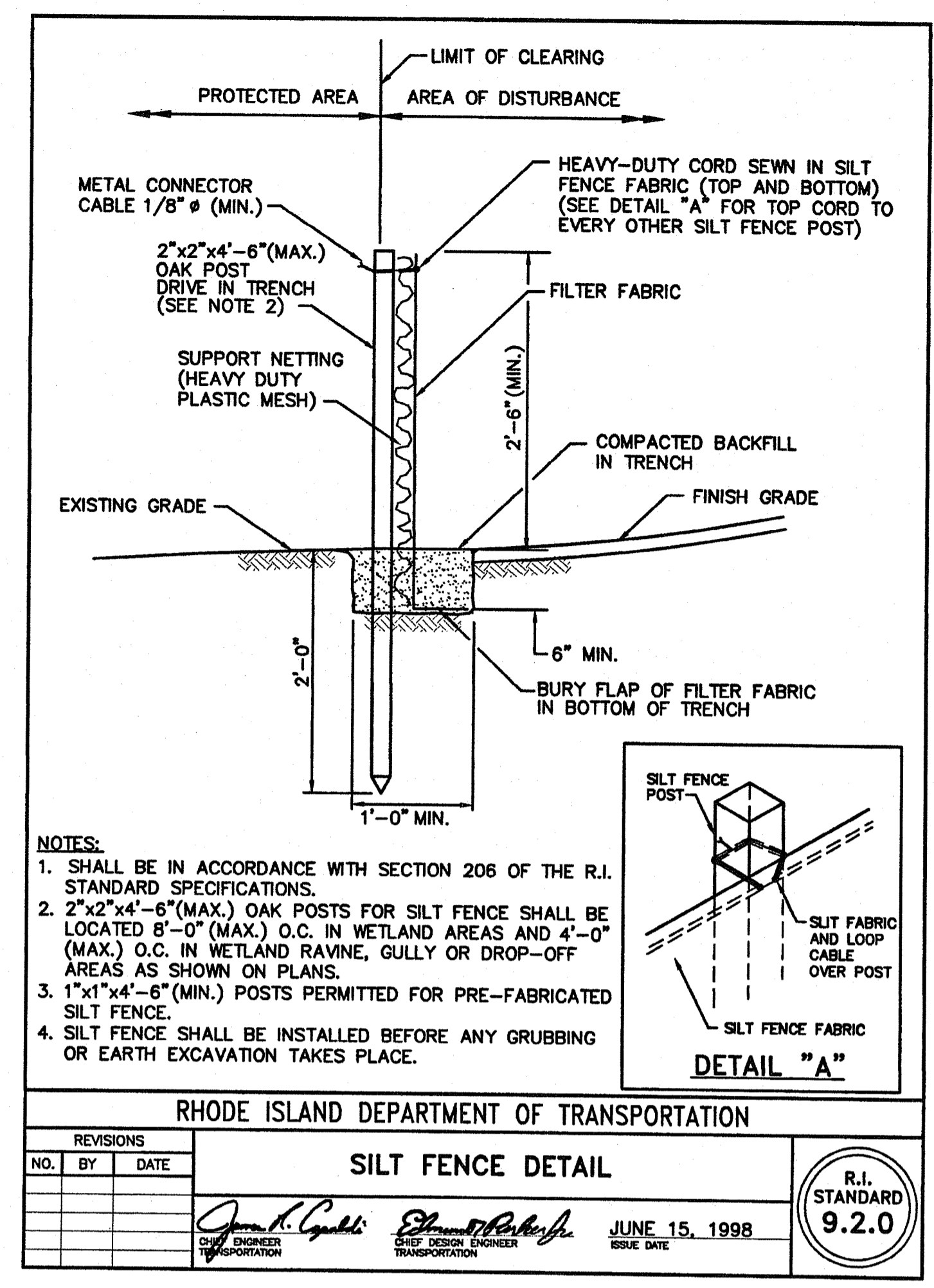
Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760

REVISIONS		
NO.	DATE	BY

COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI

ELECTRICAL PLAN

CHECKED BY: JRI DATE: 6/3/2022 SCALE: NO SCALE



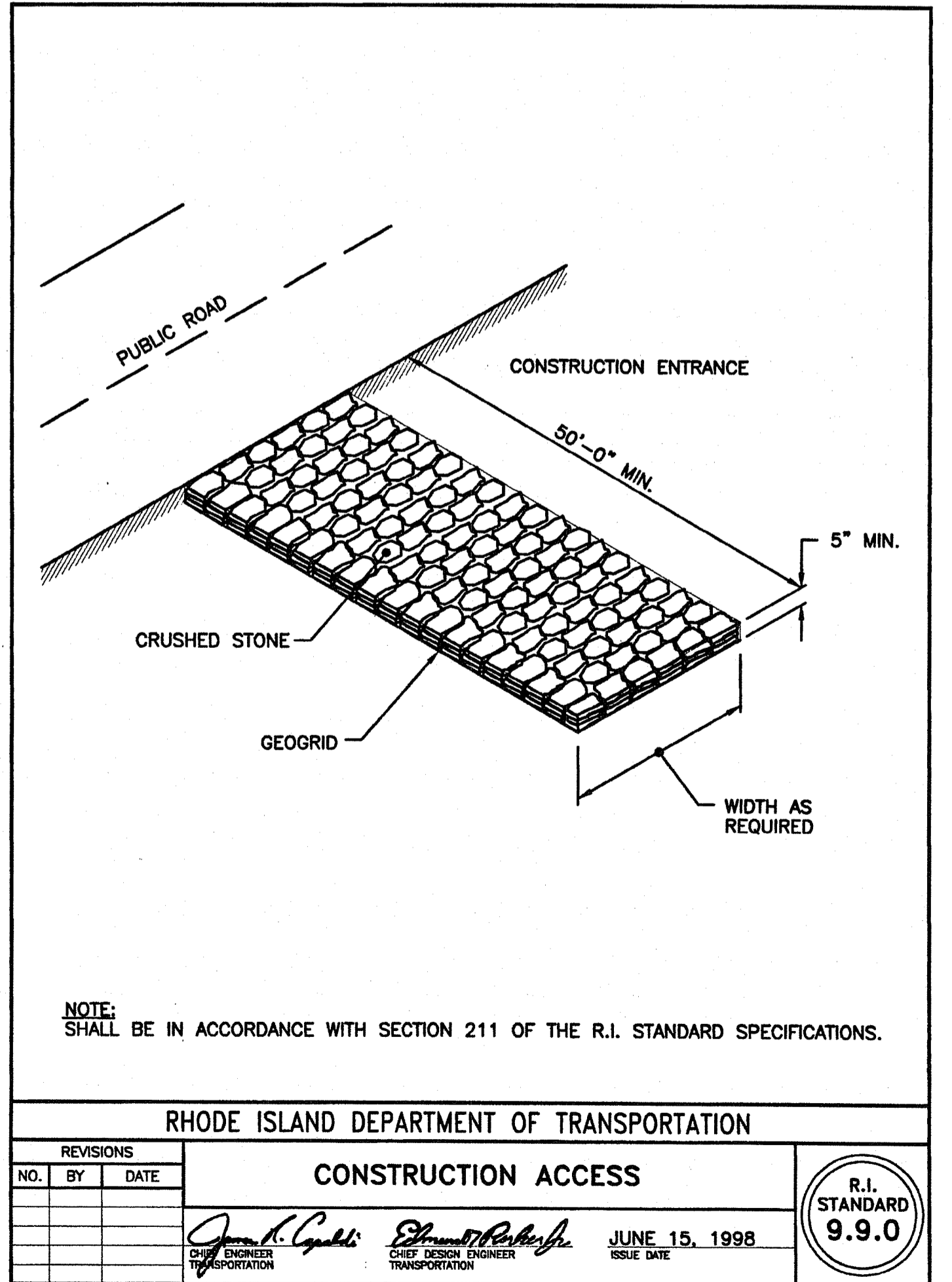
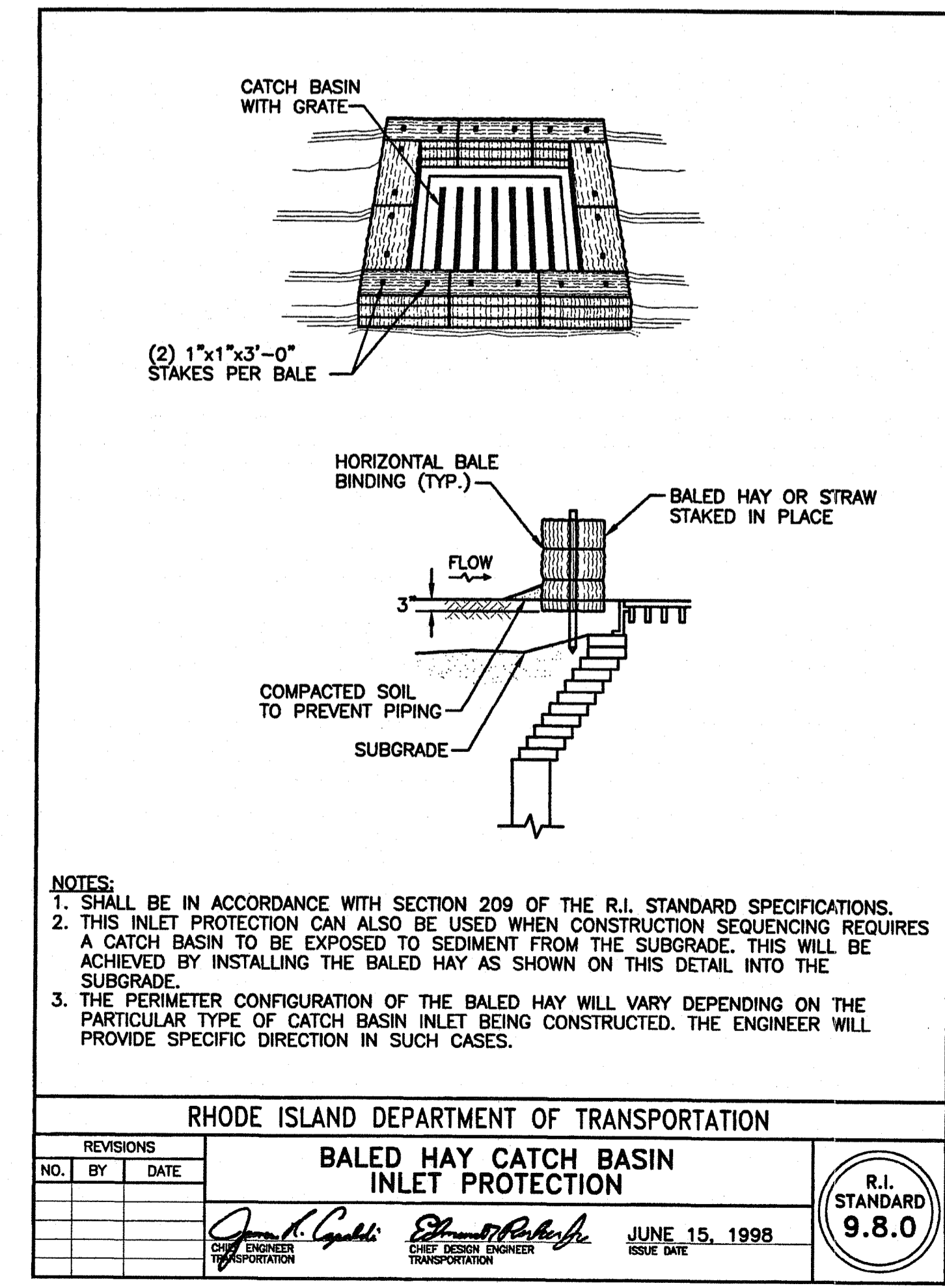
REVISIONS		
NO.	BY	DATE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

SILT FENCE DETAIL

<i>James A. Capaldi</i> CHIEF ENGINEER TRANSPORTATION	<i>Edward P. Kelly</i> CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE
---	---	-----------------------------

R.I.
STANDARD
9.2.0



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 16 2022 FILE #: 22-0403

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wensck

Environmental Management
JUN 30 2022
Office of Water Resources

Tighe & Bond
213 Court Street
Suite 1100
Middletown, CT 06457
(860) 704-4760

REVISIONS		
NO.	DATE	BY

**COLLYER STREET
RETAINING WALL REPLACEMENT
PROVIDENCE, RI**

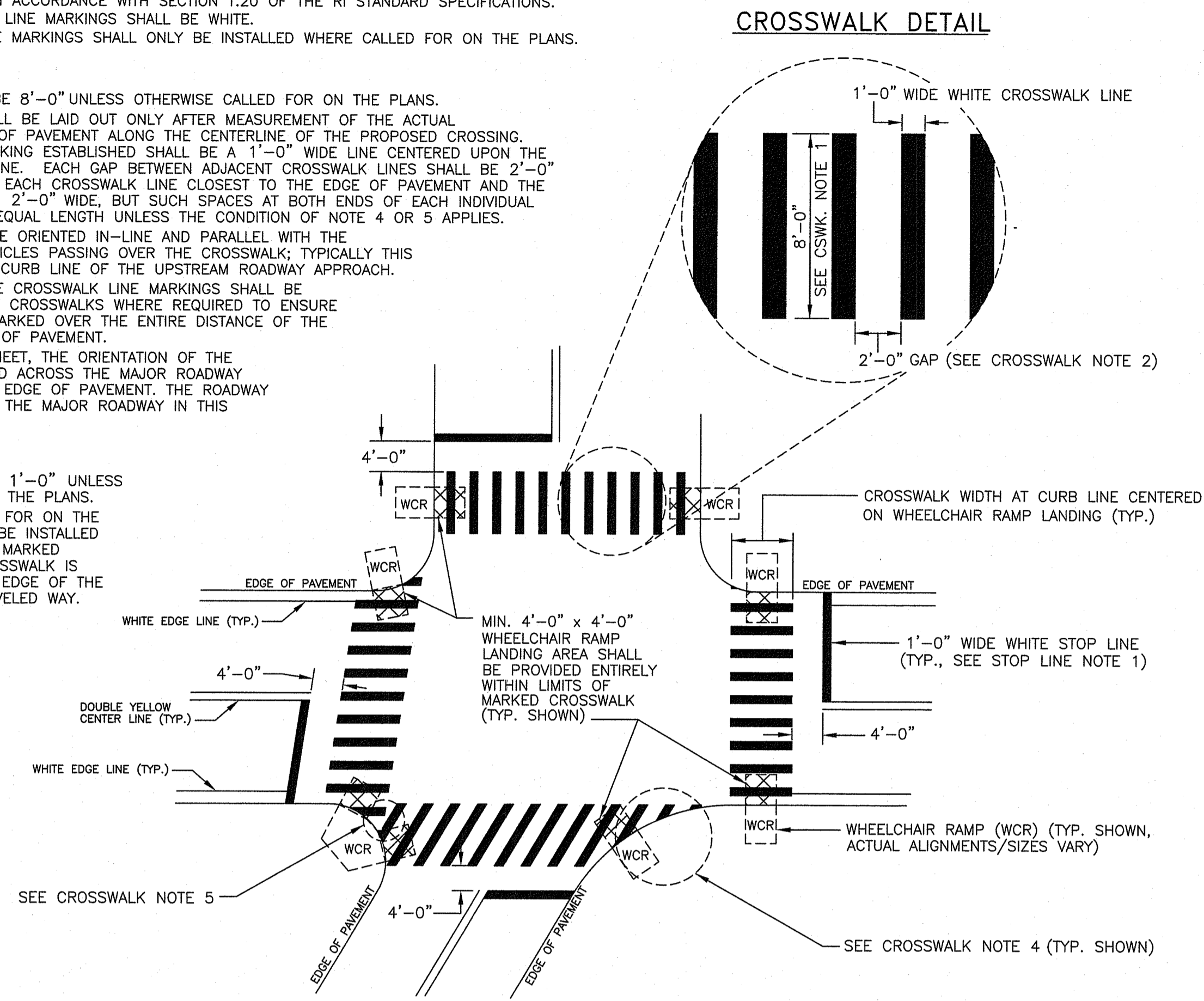
MISCELLANEOUS DETAILS - 2

CHECKED BY: JRI DATE: 6/3/2022 SCALE: NO SCALE

GENERAL NOTES:
 1. ALL MARKINGS SHALL BE IN ACCORDANCE WITH SECTION T.20 OF THE RI STANDARD SPECIFICATIONS.
 2. ALL CROSSWALK AND STOP LINE MARKINGS SHALL BE WHITE.
 3. CROSSWALK AND STOP LINE MARKINGS SHALL ONLY BE INSTALLED WHERE CALLED FOR ON THE PLANS.

CROSSWALK NOTES:
 1. CROSSWALK WIDTH SHALL BE 8'-0" UNLESS OTHERWISE CALLED FOR ON THE PLANS.
 2. CROSSWALK MARKINGS SHALL BE LAID OUT ONLY AFTER MEASUREMENT OF THE ACTUAL DISTANCE BETWEEN EDGES OF PAVEMENT ALONG THE CENTERLINE OF THE PROPOSED CROSSING. THE FIRST CROSSWALK MARKING ESTABLISHED SHALL BE A 1'-0" WIDE LINE CENTERED UPON THE MIDPOINT OF THIS CENTERLINE. EACH GAP BETWEEN ADJACENT CROSSWALK LINES SHALL BE 2'-0" WIDE. THE SPACE BETWEEN EACH CROSSWALK LINE CLOSEST TO THE EDGE OF PAVEMENT AND THE LATTER MAY BE LESS THAN 2'-0" WIDE, BUT SUCH SPACES AT BOTH ENDS OF EACH INDIVIDUAL CROSSWALK SHALL BE OF EQUAL LENGTH UNLESS THE CONDITION OF NOTE 4 OR 5 APPLIES.
 3. CROSSWALK LINES SHALL BE ORIENTED IN-LINE AND PARALLEL WITH THE PREDOMINANT PATH OF VEHICLES PASSING OVER THE CROSSWALK; TYPICALLY THIS WILL BE PARALLEL TO THE CURB LINE OF THE UPSTREAM ROADWAY APPROACH.
 4. SHORTER SEGMENTS OF THE CROSSWALK LINE MARKINGS SHALL BE INSTALLED AT THE ENDS OF CROSSWALKS WHERE REQUIRED TO ENSURE THAT THE CROSSWALK IS MARKED OVER THE ENTIRE DISTANCE OF THE CROSSING BETWEEN EDGES OF PAVEMENT.
 5. WHERE TWO CROSSWALKS MEET, THE ORIENTATION OF THE CROSSWALK LINES INSTALLED ACROSS THE MAJOR ROADWAY SHALL BE CARRIED TO THE EDGE OF PAVEMENT. THE ROADWAY RUNNING LEFT TO RIGHT IS THE MAJOR ROADWAY IN THIS DETAIL.

STOP LINE NOTES:
 1. STOP LINE WIDTH SHALL BE 1'-0" UNLESS OTHERWISE CALLED FOR ON THE PLANS.
 2. UNLESS OTHERWISE CALLED FOR ON THE PLANS, STOP LINES SHALL BE INSTALLED PARALLEL TO THE NEAREST MARKED CROSSWALK OR, IF NO CROSSWALK IS MARKED, PARALLEL TO THE EDGE OF THE NEAREST INTERSECTING TRAVELED WAY.



R.I. STANDARD 20.3.0

FEBRUARY 27, 2018
ISSUE DATE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS -
CROSSWALKS AND STOP LINES

David J. Esch
ADMINISTRATOR OF PROJECT MANAGEMENT
TRANSPORTATION

NO.	BY	DATE

SIGN POST SELECTION AND INSTALLATION DETAILS
 U-CHANNEL POST (SIGNS UP TO 8'-0" W x 4'-0" H)

INSTALLATION PROCEDURE:
 1. REMOVE A SPADE FULL OF SOIL (APPROXIMATELY 2" DEEP) FROM WHERE THE BASE POST WILL BE LOCATED.
 2. DRIVE THE BASE POST IN THE CENTER OF THE HOLE JUST CREATED TO WITHIN 4" OF GRADE LEVEL.
 3. PLACE ONE BOLT AND FLAT WASHER IN THE TOP HOLE OF THE BASE POST. (IF THE TOP HOLE ON THE BASE POST OR THE BOTTOM HOLE ON THE TOP POST IS LESS THAN 3/4" FROM END OF THE POST USE THE SECOND AND SIXTH HOLES.) WITH THE THREADED BAR SPACER ALIGNED WITH TOP HOLE ON THE BACK SIDE OF THE BASE POST, SECURELY TIGHTEN THE BOLT TO 20 FT. LBS. OF TORQUE. REPEAT THIS PROCESS FOR THE LOWER BOLT.
 4. NEST THE TOP POST OVER THE PROTRUDING BOLTS ON THE BASE POST. PLACE A SELF-LOCKING FLANGE NUT ON EACH BOLT AND TIGHTEN SECURELY TO 20 FT. LBS. OF TORQUE.
 5. REPLACE SOIL REMOVED IN STEP 1.
 6. IN TRIPLE POST INSTALLATIONS USING 4 LB./FT. POSTS IN WEAK SOIL, A 1'-0" W x 6" H SOIL PLATE IS REQUIRED.

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE SILVER ANODIZED BAR SPACER IS FOR USE WITH 2, 2.5 AND 2.75 LB./FT. RIB-BAK POST GRADE SP-80 ONLY.
 3. THE GOLD ANODIZED BAR SPACER IS FOR USE WITH 3 AND 4 LB./FT. RIB-BAK POST GRADE SP-80 ONLY.
 4. INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 5. FOR SIGNS GREATER THAN 40 SQ. FT., REFER TO STD. 30.1.0, 30.1.1, 30.2.0, 30.2.1, 30.3.0, 30.3.1, 30.4.0, 30.4.1, 30.4.2 AND 30.4.3

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 JUNE 15, 1998
 R.I. STANDARD 24.2.0

STREET SIGN MOUNTING DETAIL

NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
 2. EACH SIGN SHALL HAVE LEGEND ON BOTH SIDES.
 3. POSTS SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE BACK OF SIDEWALK, UNLESS SPACE DOES NOT PERMIT.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 JUNE 15, 1998
 R.I. STANDARD 24.6.1

Tighe & Bond
 213 Court Street
 Suite 1100
 Middletown, CT 06457
 (860) 704-4760

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 16 2022 FILE # 22-0408
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Seneck

Environmental Management
 JUN 30 2022
 Office of Water Resources

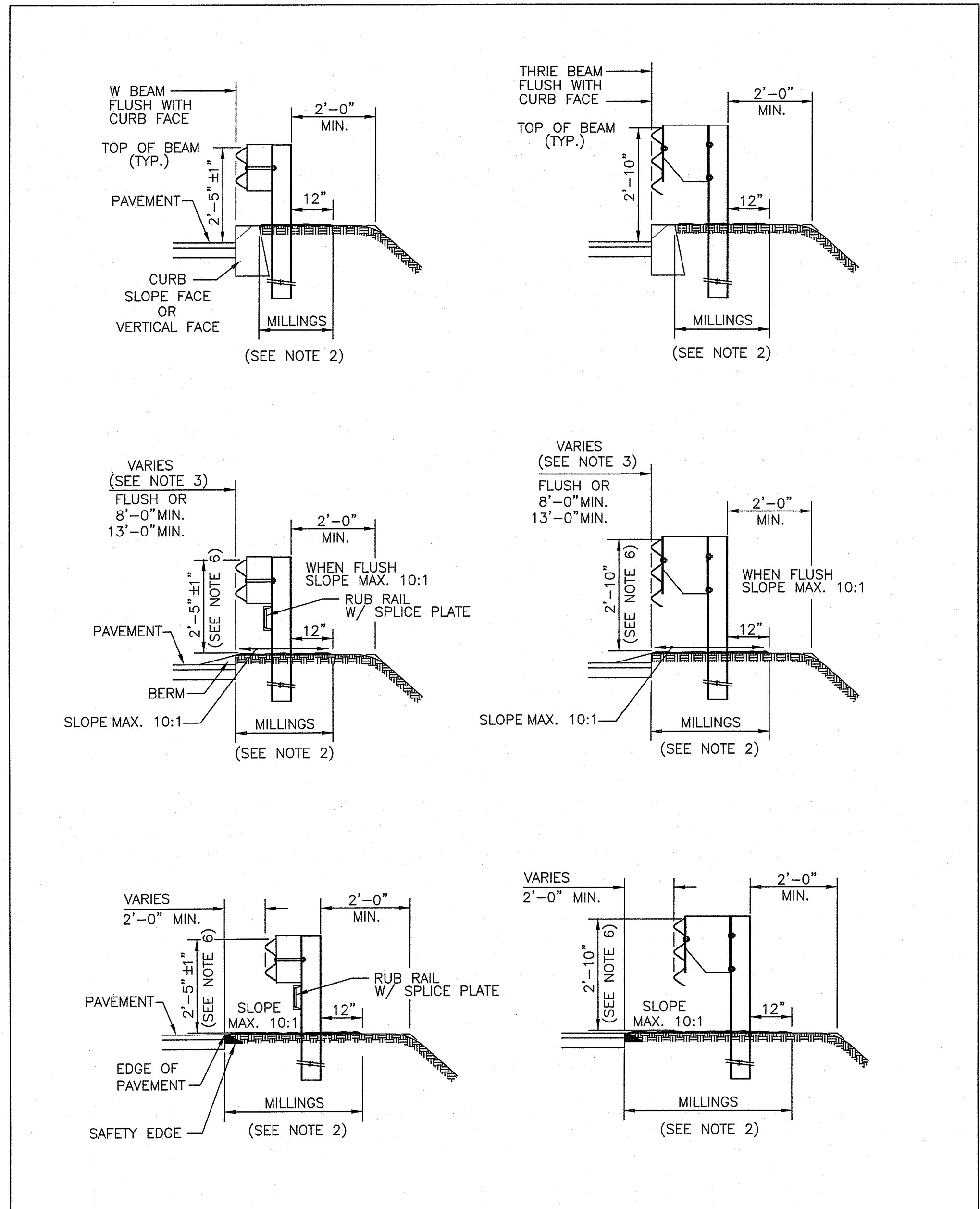
NO.	DATE	BY

COLLYER STREET
 RETAINING WALL REPLACEMENT
 PROVIDENCE, RI

MISCELLANEOUS DETAILS - 3

CHECKED BY: JRI DATE: 6/3/2022 SCALE: NO SCALE

Last Saved: 6/3/2022 5:30pm By: TWanner
 Plotted On: Jun 03, 2022 5:30pm
 Tighe & Bond: C:\Projects\Providence\05 Collyer Street - Wall Replacement\Drawings - Figures\AutoCAD\Sheet\PS540-009-R05.dwg



- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTIONS 901, 902 OF THE RI STANDARD SPECIFICATIONS.
 - SHALL BE IN ACCORDANCE WITH SECTION 213 OF THE RI STANDARD SPECIFICATIONS.
 - SETBACK FROM CURB FACE OR BERM AS SPECIFIED ON PLANS, 8' LESS THAN 40 MPH; 13' LESS THAN 50 MPH.
 - W-BEAM POSTS W6X9 STANDARD 72 INCHES OR AS SPECIFIED ON PLANS.
 - THREE BEAM POSTS W6X9 STANDARD 81 INCHES OR AS SPECIFIED ON PLANS.
 - TOP OF RAIL HEIGHT MEASURED FROM 10:1 SURFACE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

ROADSIDE GUARDRAIL INSTALLATION

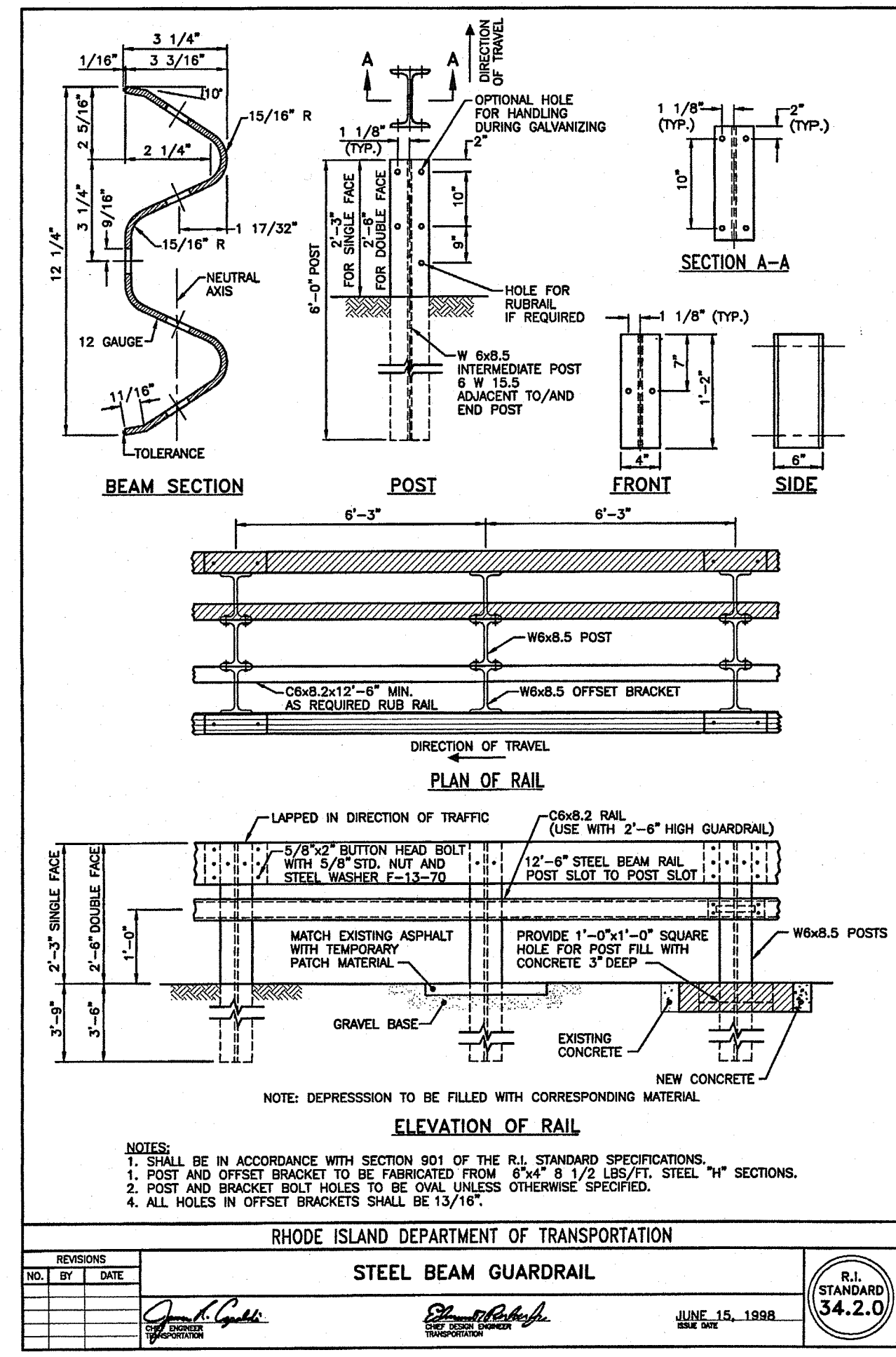
R.I. STANDARD 34.1.0

JUNE 15, 1998

REVISIONS

NO.	BY	DATE
1	MLP	Sep 2012

CHIEF ENGINEER TRANSPORTATION



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

STEEL BEAM GUARDRAIL

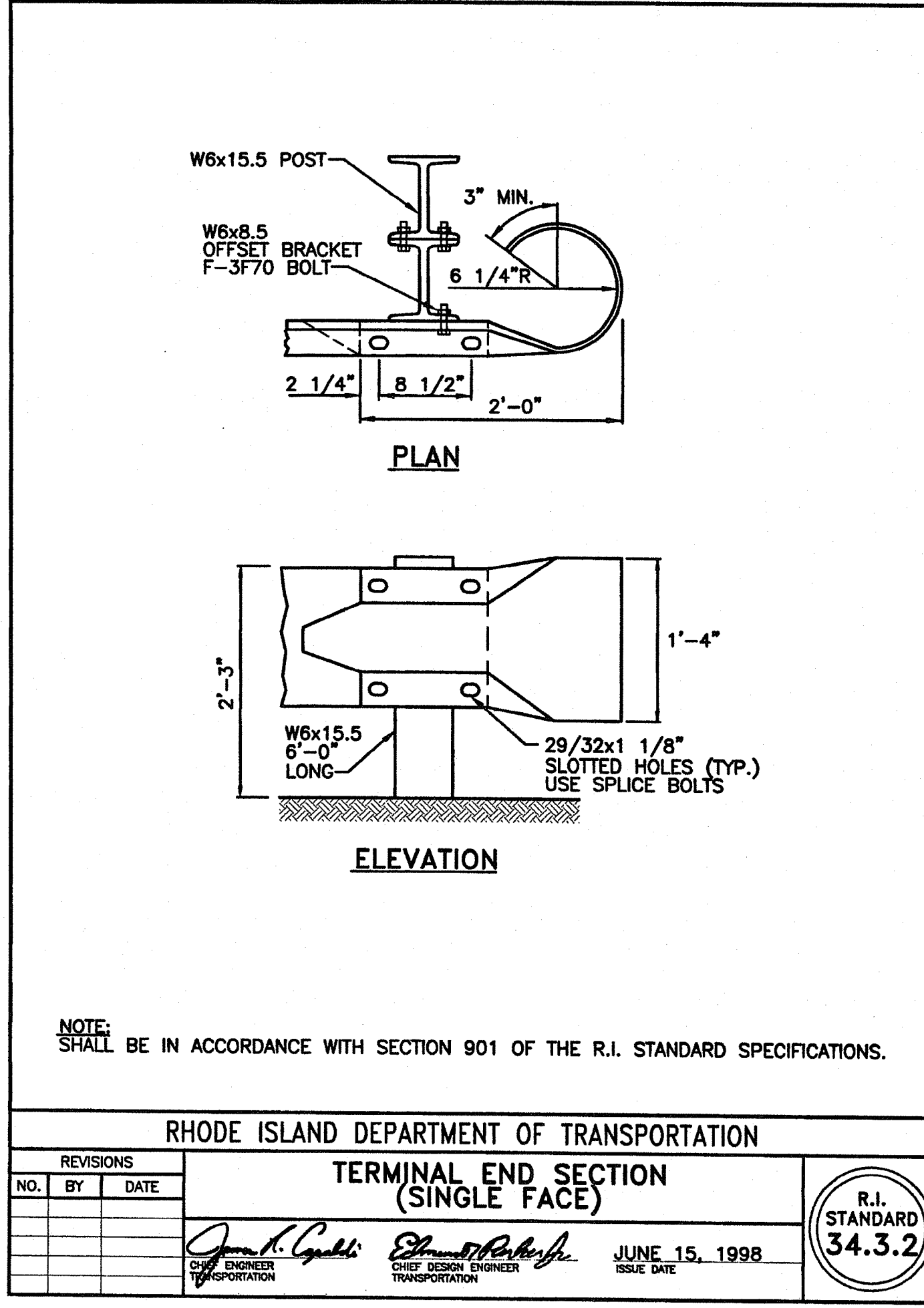
R.I. STANDARD 34.2.0

JUNE 15, 1998

REVISIONS

NO.	BY	DATE
-----	----	------

CHIEF ENGINEER TRANSPORTATION



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

TERMINAL END SECTION (SINGLE FACE)

R.I. STANDARD 34.3.2

JUNE 15, 1998

REVISIONS

NO.	BY	DATE
-----	----	------

CHIEF ENGINEER TRANSPORTATION

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 16 2022 FILE #: 22-0408
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Womack
Environmental Management

Environmental Management
JUN 30 2022
Office of Water Resources

Tighe & Bond
213 Court Street
Suite 1100
Middletown, CT 06457
(860) 704-4760

REVISIONS

NO.	DATE	BY
-----	------	----

COLLYER STREET
RETAINING WALL REPLACEMENT
PROVIDENCE, RI

MISCELLANEOUS DETAILS - 5

CHECKED BY: JRI DATE: 6/3/2022 SCALE: NO SCALE

Last Saved: 6/3/2022, 5:30:09 PM, By: TTH/awc, Title & Bond: J:\P5040 Providence\009 Collyer Street Wall Replacement\Drawings_Figures\AutoCAD\Sheet\PS040-09-1005.dwg