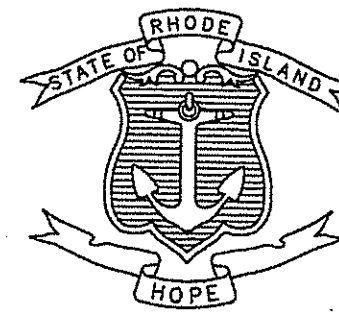


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5	JOB-SPECIFIC PLAN SYMBOLS, LEGEND & NOTES
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STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION
 PLAN, PROFILE AND SECTIONS OF PROPOSED
 STATE HIGHWAY
 IMPROVEMENTS TO I-195
 SUPERSTRUCTURE REPLACEMENT
 BRIDGE 472

CITY OF EAST PROVIDENCE
 COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 2017-CB-070 F.A. PROJECT NO. STP-RESF(360)

PAVEMENT STRUCTURE (FDC)
 2" MODIFIED CLASS 12.5
 10" CLASS 19
 12" (MINIMUM) GRAVEL BORROW SUBBASE
PAVEMENT STRUCTURE (MMO)
 2" MICRO-MILLING
 2" MODIFIED CLASS 12.5

1.67 MILES

	I-195	HORTON FARM ROAD	PAWTUCKET AVENUE
AADT (2013)	102,800 V.P.D.	AADT (2013) 22,100 V.P.D.	AADT (2013) 28,000 V.P.D.
AADT (2033)	124,750 V.P.D.	AADT (2033) 25,300 V.P.D.	AADT (2033) 32,100 V.P.D.
D	50/50%	D	100%
K	10%	K	10%
T	6%	T	8%
DDHV	10,300 V.P.H.	DDHV	2,530 V.P.H.
DDV	12,500 V.P.H.	DDV	2,530 V.P.H.
DESIGN SPEED	60 M.P.H.	DESIGN SPEED	50 M.P.H.
		DESIGN SPEED	30 M.P.H.

DESIGN DESIGNATION

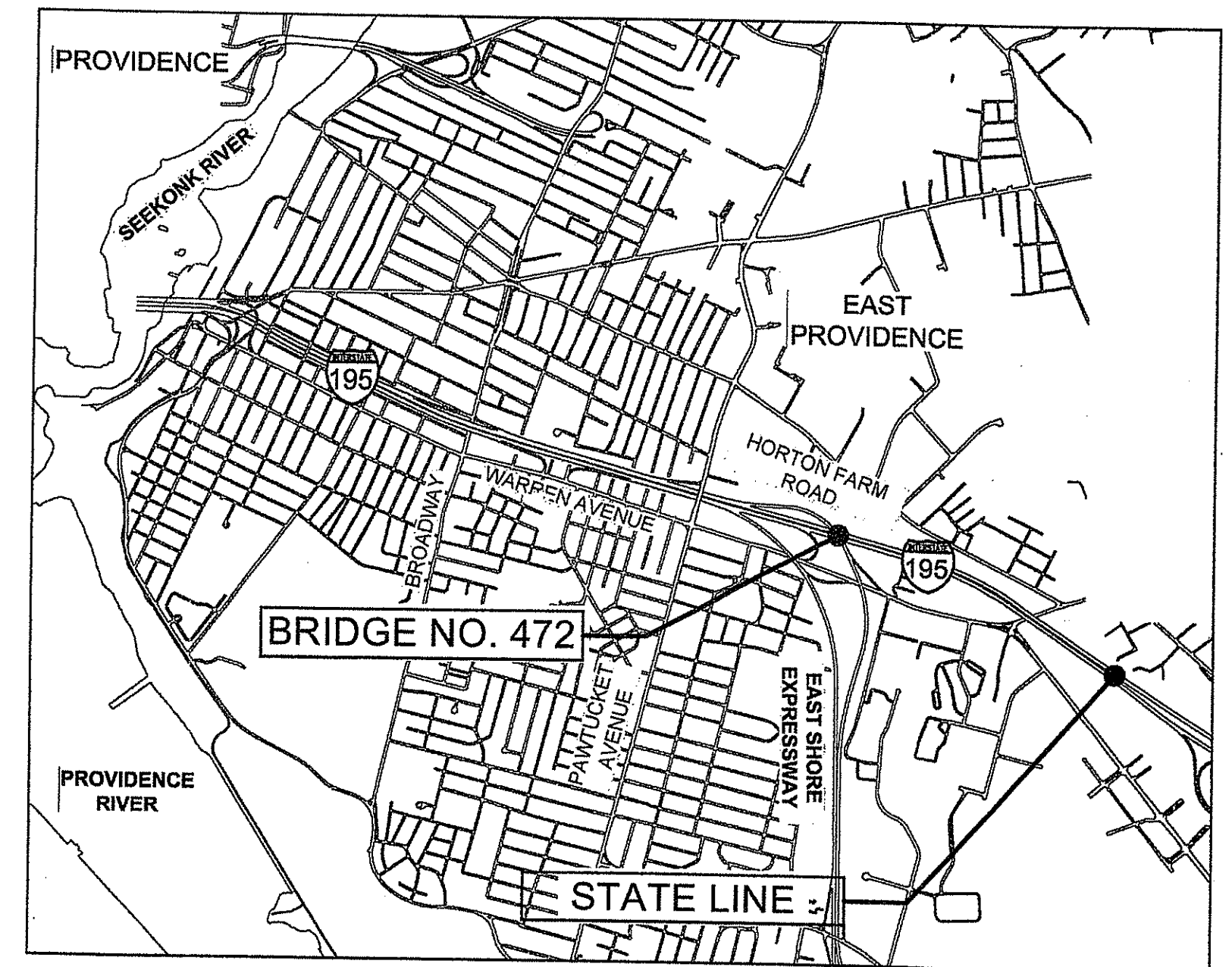
HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:
 - Intersection of Pawtucket Avenue & Warren Avenue
 - Pawtucket Avenue Bridge 471
 - Pawtucket Avenue
 - East Shore Expressway On Ramp to I-195 over Bridge 472
 Refer to General Note 18 on Sheet 3

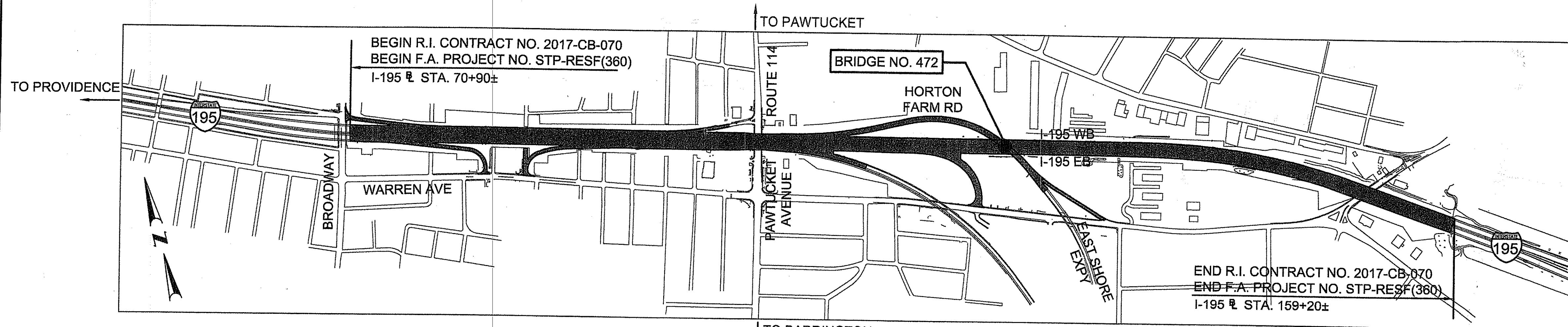
PERMIT PLANS

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, 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, 1988 EDITION, WITH ALL REVISIONS.



LOCATION MAP
 SCALE: 1"=2,000'



LAYOUT PLAN
 SCALE: 1" = 500'

SCALES OF DRAWINGS

Plans	1 inch = 20 & 40 feet
Profiles	1 inch = 20 feet Horizontal
Profiles	1 inch = 4 feet Vertical
Cross Sections	1 inch = 4 feet Horizontal
Cross Sections	1 inch = 4 feet Vertical

BASE OF LEVELS
 NGVD 29

Louis Berger
 166 VALLEY STREET
 PROVIDENCE, RI 02909
 TEL 401 521 5980
 WWW.LOUISBERGER.COM

Contract Number 2017-CB-070

Number of Sheet 1

Total Sheets 42

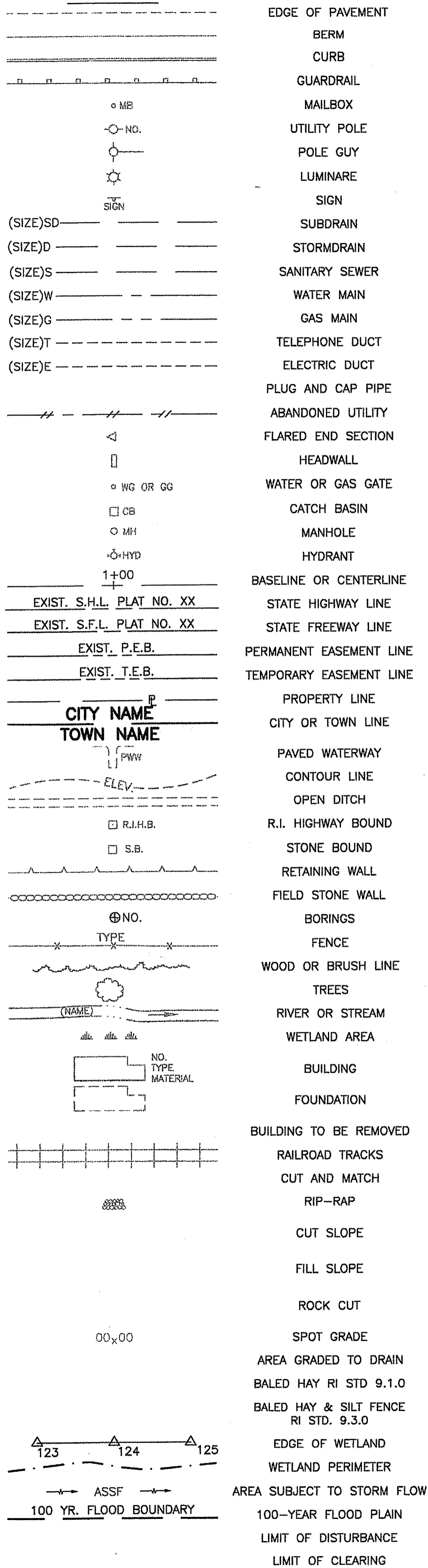
THOMAS ALAN HARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF FRESHWATER RESOURCES
 FRESHWATER SITE PLAN APPLICATION NO. 17-005
 DATED 11/03/2017
 SEATTLE OF SAME DATE

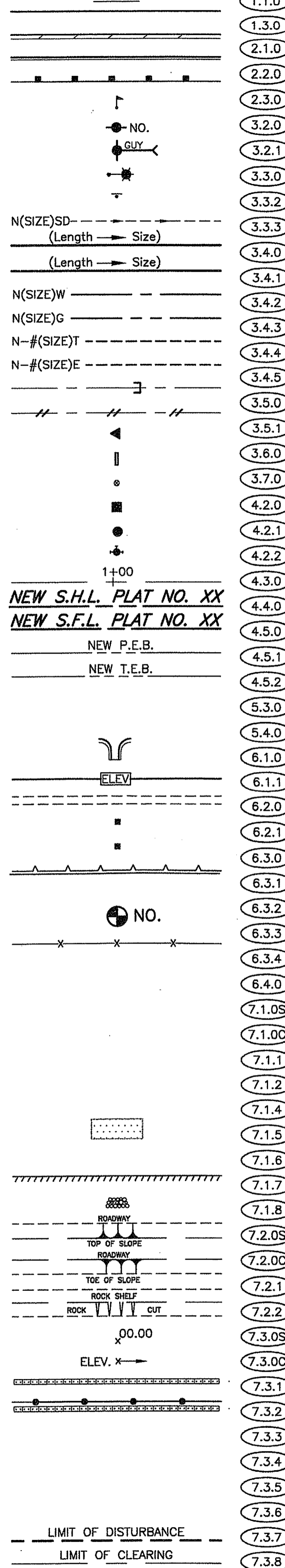
APPROVED _____ DATE _____
 CHIEF ENGINEER
 APPROVED _____ DATE _____
 DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 APPROVED _____ DATE _____
 DIVISION ADMINISTRATOR _____ DATE _____

EXISTING



NEW



- 1.1.0 UNDERDRAIN
- 1.3.0 CONCRETE CONNECTING COLLAR
- 2.1.0 CONCRETE HEADWALLS FOR PIPE CULVERTS
- 2.2.0 STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS
- 2.3.0 (DIA.) PRECAST CONCRETE FLARED END SECTION
- 3.2.0 BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE
- 3.2.1 (DIA.) BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE
- 3.3.0 BRICK/SOLID BLOCK TYPE "D" SQUARE CATCH BASIN
- 3.3.2 BRICK/SOLID BLOCK TYPE "F" SQUARE CATCH BASIN
- 3.3.3 SOLID BLOCK FLUSH SQUARE CATCH BASIN
- 3.4.0 BRICK/SOLID BLOCK TYPE "D" ROUND CATCH BASIN
- 3.4.1 BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET
- 3.4.2 BRICK/SOLID BLOCK TYPE "F" ROUND CATCH BASIN
- 3.4.3 BRICK/SOLID BLOCK TYPE "R" CATCH BASIN
- 3.4.4 SOLID BLOCK FLUSH ROUND CATCH BASIN
- 3.4.5 (DIA.) BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN
- 3.5.0 SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN
- 3.5.1 (SIZE) SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN
- 3.6.0 BRICK/SOLID BLOCK DROP INLET
- 3.7.0 (DIA.) BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"
- 4.2.0 PRECAST 4'-0" ROUND MANHOLE
- 4.2.1 PRECAST 5'-0" ROUND MANHOLE
- 4.2.2 PRECAST 6'-0" ROUND MANHOLE
- 4.3.0 (SIZE) PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
- 4.4.0 (DIA.) PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
- 4.5.0 PRECAST CONCRETE DROP INLET
- 4.5.1 PRECAST CONCRETE DROP INLET LATERAL OUTLET
- 4.5.2 PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET
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- 5.4.0 CONCRETE COLLARS
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- 6.1.1 HEAVY DUTY SQUARE FRAME AND ROUND COVER
- 6.2.0 LIGHT-DUTY ROUND FRAME AND COVER
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- 6.3.0 SQUARE FRAME AND GRATE
- 6.3.1 SQUARE FRAME AND GRATE
- 6.3.2 SQUARE FRAME AND GRATE (BICYCLE SAFE)
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- 6.3.4 HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
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- 7.1.0C PRECAST CONCRETE CURB (CIRCULAR)
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- 7.1.2 6'-0" PRECAST CONCRETE TRANSITION CURB
- 7.1.4 PRECAST 2'-0" RADIUS CORNER
- 7.1.5 PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)
- 7.1.6 PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)
- 7.1.7 PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)
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- 7.3.6 GRANITE INLET STONE (FOR ROUND CATCH BASIN)
- 7.3.7 GRANITE APRON STONE (FOR SQUARE CATCH BASIN)
- 7.3.8 GRANITE APRON STONE (FOR ROUND CATCH BASIN)
- 7.4.0 GRANITE SLOPED FACE CURB
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- 7.5.1B BITUMINOUS BERM (CONSTRUCTION METHOD B)
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- 8.3.0 RIP-RAP DITCH
- 8.4.0 PAVED WATERWAY
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- 9.2.0 SILT FENCE DETAIL
- 9.3.0 BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
- 9.4.0 BALED HAY DITCH AND SWALE EROSION CHECK
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- 9.7.0 DEWATERING BASIN
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- 10.2.0 RUBBLE MASONRY WALL
- 10.3.0 CONCRETE RETAINING WALL
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- 40.2.0 SINGLE-FACED PRECAST MEDIAN BARRIER
- 40.2.1 SINGLE-FACED PRECAST MEDIAN BARRIER
- 40.3.0 PRECAST MEDIAN BARRIER TRANSITION UNIT
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- 43.2.0 BITUMINOUS CONCRETE SIDEWALK
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- 51.1.1 DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
- 51.2.0 SHRUB PROTECTION DEVICE
- 51.3.0 TREE WELL
- 51.4.0 TREE WALL

- AB ADJUST CATCH BASIN TO GRADE
- ABM ADJUST CATCH BASIN TO MANHOLE
- AC ADJUST CURB STOP TO GRADE
- AD ADJUST DRAINAGE MANHOLE TO GRADE
- AE ADJUST ELECTRIC MANHOLE TO GRADE
- AFC ADJUST FRAME AND COVER TO GRADE
- AFG ADJUST FRAME AND GRATE TO GRADE
- AG ADJUST GAS GATE BOX TO GRADE
- AHH ADJUST HANDHOLE TO GRADE
- AS ADJUST SANITARY SEWER MANHOLE TO GRADE
- AT ADJUST TELEPHONE MANHOLE TO GRADE
- AW ADJUST WATER GATE BOX TO GRADE
- BCD BITUMINOUS CONCRETE DRIVEWAY 3" BITUMINOUS CONCRETE TYPE 1-2 8" GRAVEL BORROW SUBBASE COURSE
- BPS BUILD NEW STRUCTURE OVER EXISTING PIPE
- CCB CLEAN CATCH BASIN
- CCP CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
- CFP CLEAN AND FLUSH PIPE
- CG CLEARING AND GRUBBING
- CMH CLEAN MANHOLE
- CP (DEPTH) COLD PLANE
- CPP CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
- DB REMOVE AND DISPOSE BITUMINOUS CURB
- DC REMOVE AND DISPOSE CONCRETE CURB
- DCB REMOVE AND DISPOSE CATCH BASIN
- DDI REMOVE AND DISPOSE DROP INLET
- DF REMOVE AND DISPOSE FENCE
- DFC REMOVE AND DISPOSE FRAME AND COVER
- DFE REMOVE AND DISPOSE FLARED END SECTION
- DFG REMOVE AND DISPOSE FRAME AND GRATE
- DFH REMOVE AND DISPOSE FIRE HYDRANT
- DFP REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- DG REMOVE AND DISPOSE GUARDRAIL
- DH REMOVE AND DISPOSE HEADWALL
- DHB REMOVE AND DISPOSE HIGHWAY BOUND
- DHH REMOVE AND DISPOSE HANDHOLE
- DL REMOVE AND DISPOSE LIGHT AND FOUNDATION
- DMB REMOVE AND DISPOSE MEDIAN BARRIER
- DMH REMOVE AND DISPOSE MANHOLE
- DMM REMOVE AND DISPOSE MEDIAN MARKER
- DOW REMOVE AND DISPOSE OBSERVATION WELL
- DP REMOVE AND DISPOSE PIPE
- DPB REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
- DRB REMOVE AND DISPOSE RIGID BASE
- DS REMOVE AND DISPOSE SIGN
- DSS REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
- DSW REMOVE AND DISPOSE SIDEWALK
- DTD REMOVE AND DISPOSE TELEPHONE DUCT BANKS
- DUP REMOVE AND DISPOSE UTILITY POLE
- DWW REMOVE AND DISPOSE PAVED WATERWAY
- FF FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
- GET FLARED GUARDRAIL END TREATMENT
- IA IMPACT ATTENUATOR
- IDL IMPERVIOUS DITCH LINER
- LOD LIMIT OF DISTURBANCE
- LOR LIMIT OF REGRADING
- LS 4" LOAM AND SEED

- NFH NEW FIRE HYDRANT WITH GATE VALVE
- NIC NOT IN THIS CONSTRUCTION CONTRACT
- NWB FURNISH AND INSTALL NEW WATER GATE VALVE BOX
- NWVB FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX
- NWCB FURNISH AND INSTALL NEW WATER CURB STOP BOX
- NWSB FURNISH AND INSTALL NEW WATER CURB STOP AND BOX
- PCD PERMANENT CHECK DAM
- PS 4" PLANTABLE SOIL AND SEED
- RCB RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET
- RCM R.I.D.O.T. COMMUNICATIONS MANHOLE
- RHH REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)
- RLP RELOCATE LAMP POST
- RMB RELOCATE MAILBOX (BY OTHERS)
- RPM REMOVE PAVEMENT MARKINGS
- RRP RIP-RAP PAD (SEE DETAIL)
- RRS REMOVE AND RELOCATE SIGN
- RUP RELOCATE UTILITY POLE (BY OTHERS)
- SB STONE BAFFLE
- SBAE STEEL BEAM BRIDGE CONNECTION APPROACH END (W/O NESTED RAIL)
- SBIE STEEL BEAM BRIDGE CONNECTION TRAILING END (W/NESTED RAIL)
- SD- STRUCTURAL DISPOSITION - SEE CS PAGES OF SPECIFICATION
- SF REMOVE AND STOCKPILE FENCE
- SGA SPECIAL GRADED AGGREGATE
- SGC REMOVE AND STOCKPILE GRANITE CURB
- SGR REMOVE AND STOCKPILE GUARDRAIL
- SH REMOVE AND STOCKPILE HYDRANT
- SS REMOVE AND STOCKPILE SIGN
- STS REMOVE AND STOCKPILE TRAFFIC SIGNAL SYSTEM
- TB CONCRETE THRUST BLOCK
- TEP TIE EXISTING PIPE INTO NEW STRUCTURE
- TNP TIE NEW PIPE INTO EXISTING STRUCTURE
- TBT THRIE BEAM TRANSITION
- TBBC THRIE BEAM BRIDGE CONNECTION
- TI TREE TRIMMING
- WCM 4" WOOD CHIP MULCH
- 4DY 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- 6W 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 12W 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 6WT 6" PREFORMED PATTERNED MARKING (HIGH PERFORMANCE TAPE)
- 4Y 4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
- 6Y 6" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
- P.G.L. PROFILE GRADE LINE

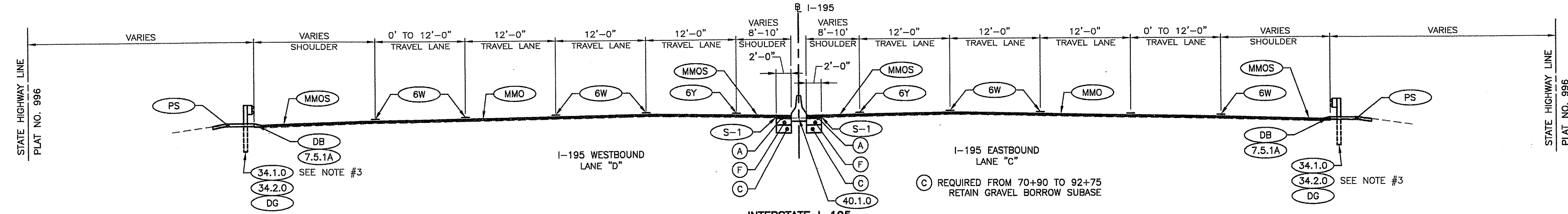
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 12227
DATED JAN 2 9 2017
LETTER OF SAME DATE

THOMAS ALAN HARLEY
No. 12227
REGISTERED PROFESSIONAL ENGINEER
CIVIL

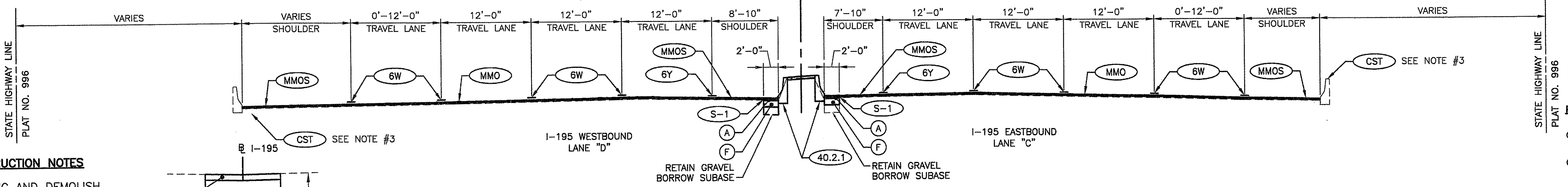
Louis Berger
166 VALLEY STREET, BUILDING 5
PROVIDENCE, RI 02909
TEL 401-521-5980
WWW.LOUISBERGER.COM

REVISIONS		
NO.	DATE	BY
1	6/07	TRB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT
EAST PROVIDENCE, RHODE ISLAND
PERMIT PLANS
STANDARD PLAN SYMBOLS &
STANDARD LEGEND
CHECKED BY PWS DATE 11/7/17 SCALE NO SCALE



INTERSTATE I-195
 STA. 70+90± - 92+75±
 STA. 110+40± - 121+50±
 STA. 124+40± - 132+10±
 SCALE: NTS

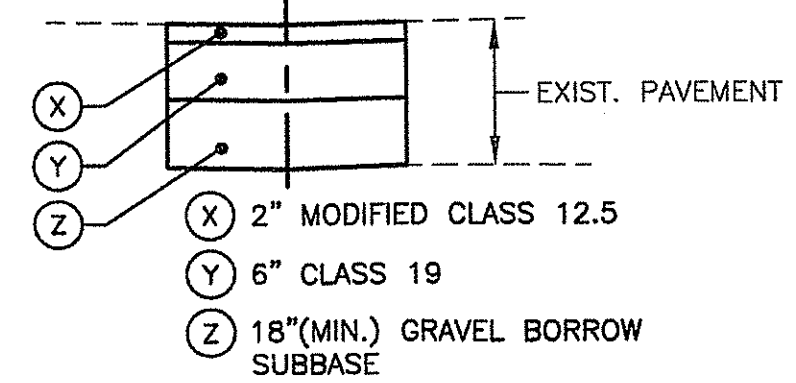


INTERSTATE I-195
 STA. 121+50± - 122+45±
 STA. 123+45± - 124+40±
 STA. 132+10± - 134+10±
 SCALE: NTS

- PAVEMENT LEGEND**
- (MMO) 2.2" MICRO-MILLING AND OVERLAY WITH 1.5" FRICTION COURSE
 - (MMOS) MICRO-MILLING 2.2" AND OVERLAY WITH 1.5" FRICTION COURSE FOR SHOULDERS
 - (FDCC)
 - (D) 1.5" FRICTION COURSE
 - (A) 2" MODIFIED CLASS 12.5
 - (F) 10" CEMENT CONCRETE
 - (C) 12"(MIN.) GRAVEL BORROW SUBBASE

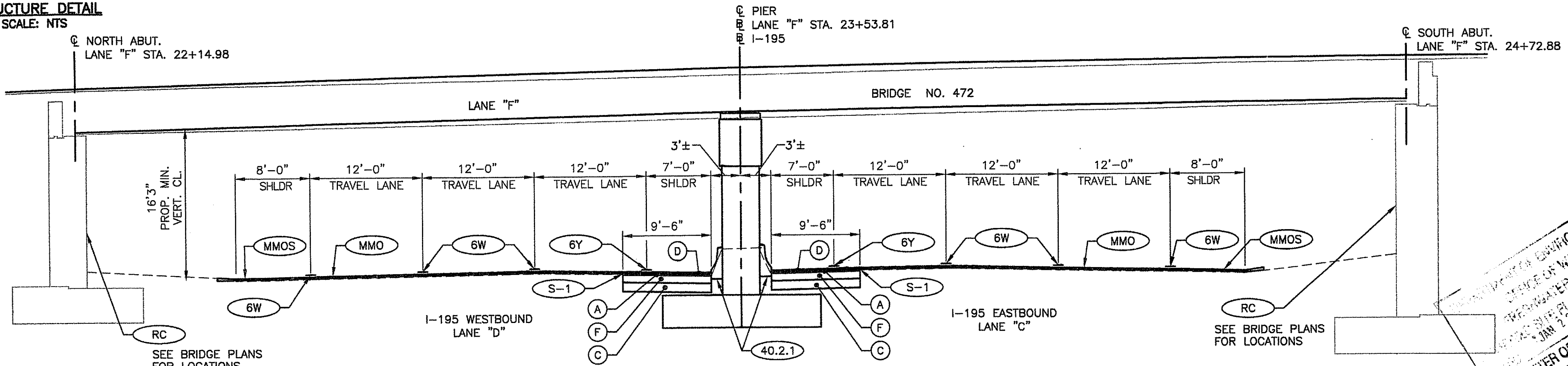
I-195 CONSTRUCTION NOTES

1. REMOVE HIGHWAY LIGHTING AND DEMOLISH FOUNDATIONS
2. DEMOLISH MEDIAN BARRIER AND REMOVE FLEXIBLE PAVEMENT
3. CONSTRUCT DRAINAGE IMPROVEMENTS
4. INSTALL TEMPORARY PAVEMENT
5. PROVIDE TEMPORARY TRAFFIC CONTROLS DURING BRIDGE CONSTRUCTION
6. REMOVE TEMPORARY PAVEMENT
7. INSTALL PERMANENT MEDIAN BARRIERS WITH PERMANENT LIGHTING FOUNDATIONS
8. PROVIDE PERMANENT PAVEMENT
9. RESET HIGHWAY LIGHTING

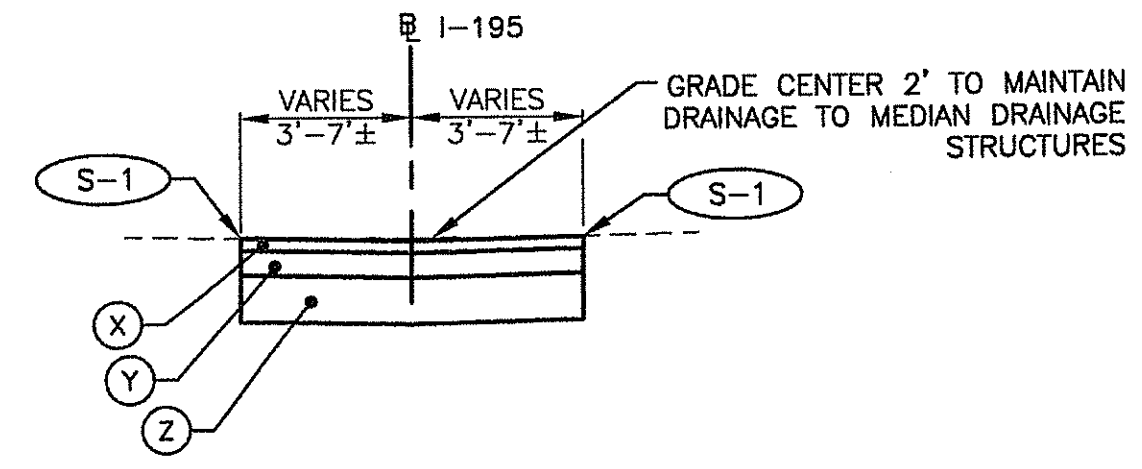


TEMPORARY PAVEMENT STRUCTURE DETAIL
 SCALE: NTS

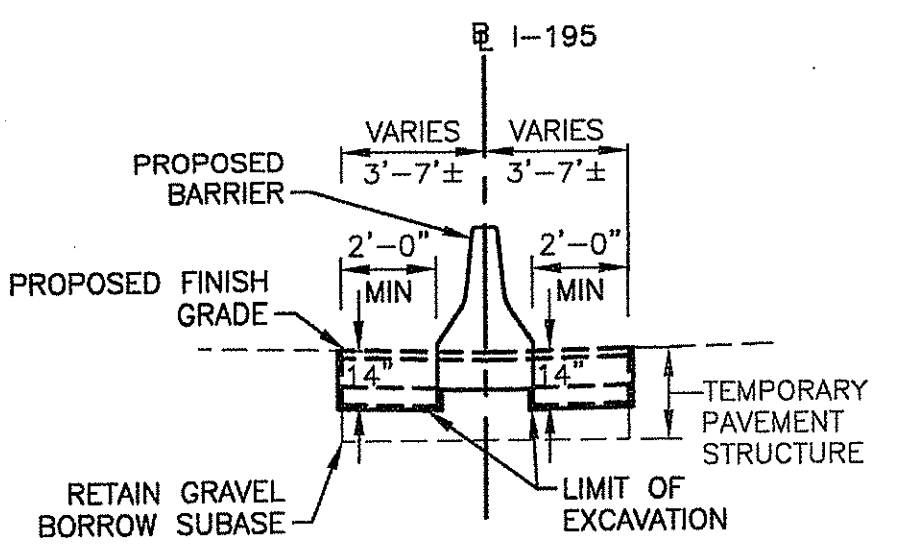
- NOTE:**
1. FOR PAVEMENT MARKING LAYOUT SEE SIGNING AND STRIPING PLANS.
 2. FOR LIMITS OF "RC" SEE BRIDGE PLANS.
 3. SEE GENERAL PLANS FOR LOCATION OF GUARDRAIL, BITUMINOUS BERM AND BARRIER.
 4. SEE DRAINAGE PLANS FOR LOCATION AND LIMITS OF UNDERDRAIN.
 5. PROPOSED BARRIERS TO BE SET IN ACCORDANCE WITH RIDOT STANDARD DETAILS AND HAVE 8" EMBEDMENT.
- PLACE FRICTION COURSE FOR SHOULDERS IN AREAS CALLED OUT AS SHOULDERS.



INTERSTATE I-195
 STA. 122+57± - 123+41±
 SCALE: NTS

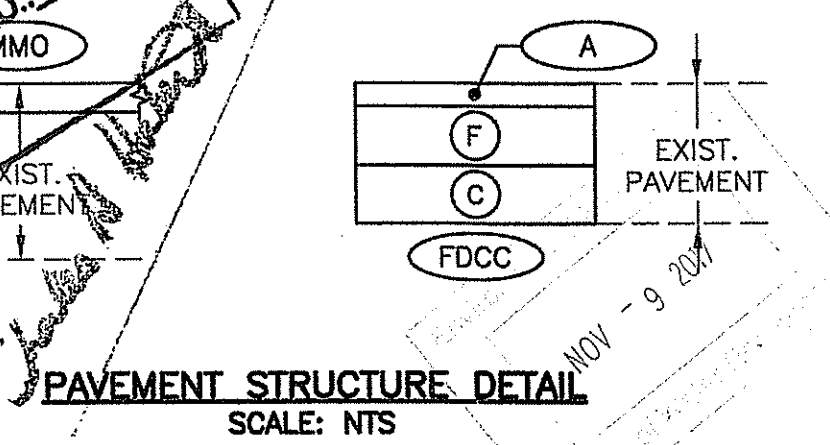


I-195 TEMPORARY PAVEMENT DETAIL
 STA. 110+40± - 134+10±
 SCALE: NTS



I-195 REMOVAL OF TEMPORARY PAVEMENT DETAIL
 STA. 110+40± - 134+10±
 SCALE: NTS

ENVIRONMENTAL MANAGEMENT
 DIVISION OF WATER RESOURCES
 WETLANDS PROGRAM
 APPLICATION NO. 17026
 DATE: JUN 27 2018
 LETTER OF SAME DATE.



PAVEMENT STRUCTURE DETAIL
 SCALE: NTS

THOMAS ALAN HARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

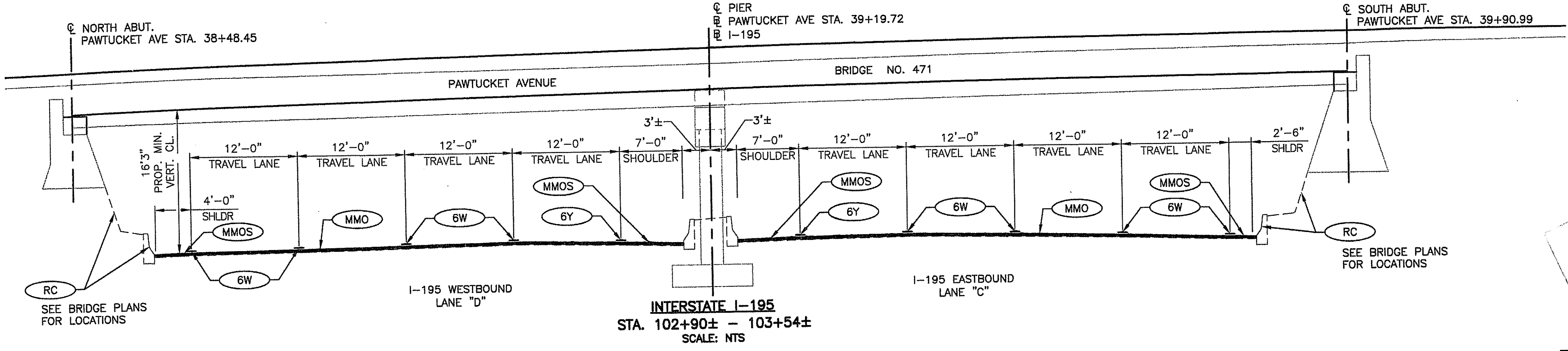
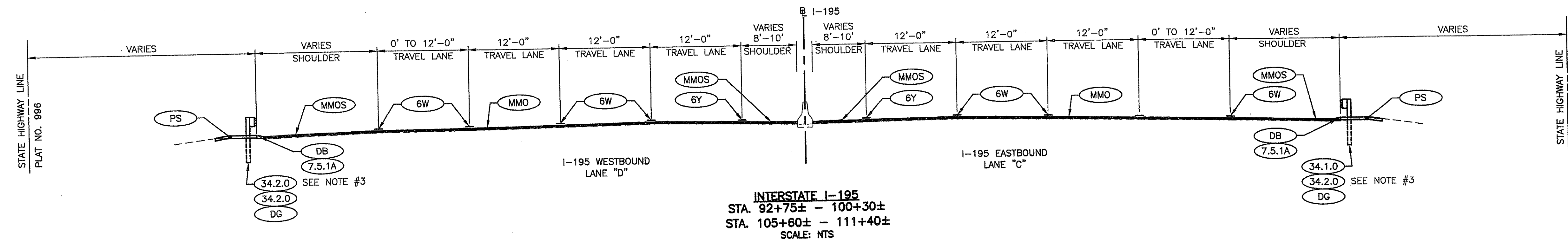
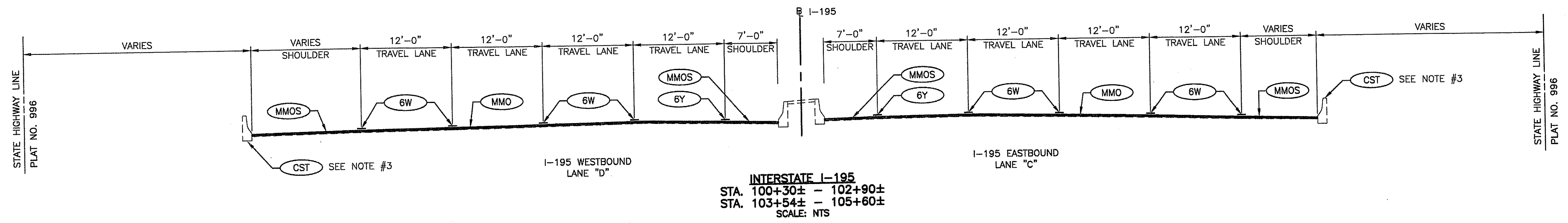
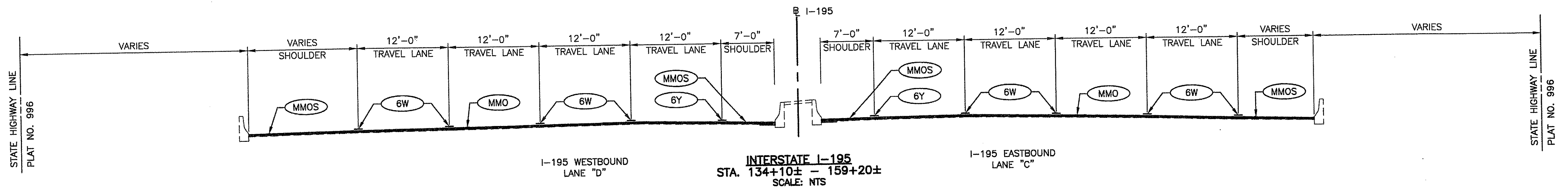


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REVISIONS	NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND
 PERMIT PLANS
TYPICAL SECTIONS
 SHEET 1 OF 5

CHECKED BY PWS DATE 11/7/17 SCALE NTS



RHOISLAND
 DEPARTMENT OF TRANSPORTATION
 IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND
 PERMIT PLANS
TYPICAL SECTIONS
 SHEET 2 OF 5

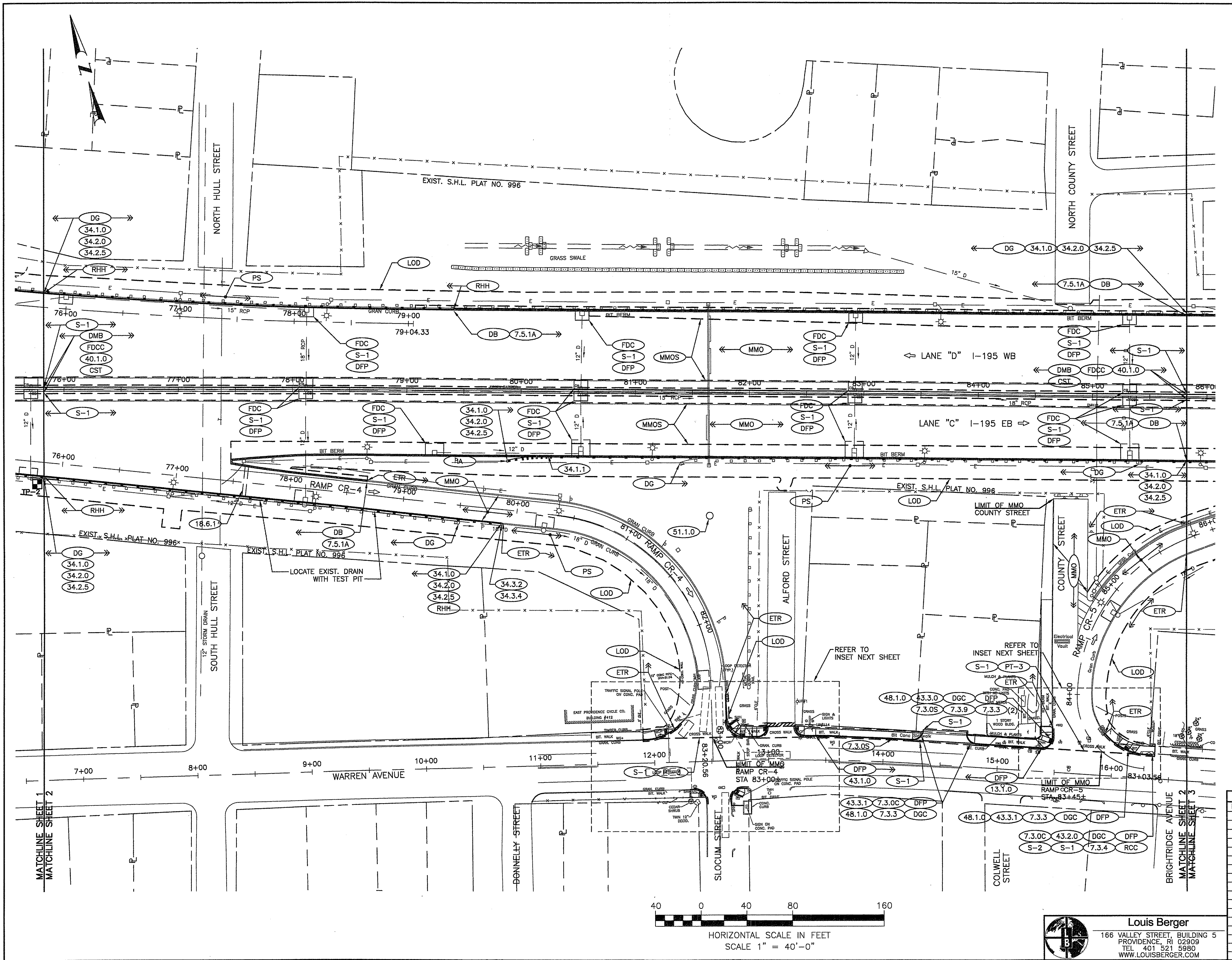
THOMAS ALAN HARLEY
 No. 42227
 REGISTERED
 PROFESSIONAL ENGINEER
 CIVIL



Louis Berger
 166 VALLEY STREET, BUILDING 5
 PROVIDENCE, RI 02909
 TEL 401 521 5980
 WWW.LOUISBERGER.COM

REVISIONS		
NO.	DATE	BY

CHECKED BY PWS DATE 11/7/17 SCALE NTS



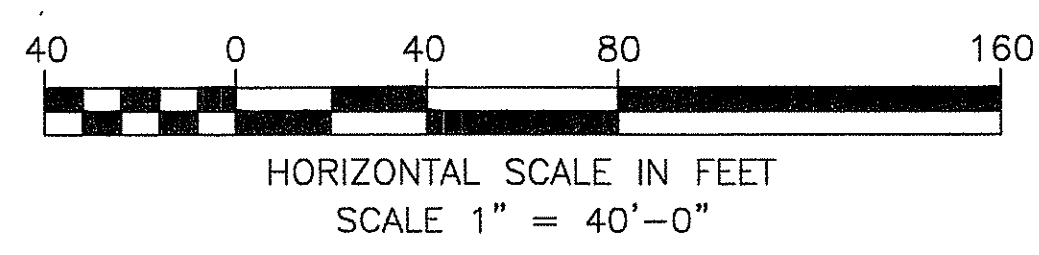
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVISION SITE PLAN APPLICATION NO. 17-028
 JAN 23 2018
 SEE LETTER OF SAME DATE.

THOMAS ALAN HARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

NOV - 9 2017

MATCHLINE SHEET 1
 MATCHLINE SHEET 2

BRIGHTBRIDGE AVENUE
 MATCHLINE SHEET 2
 MATCHLINE SHEET 3



Louis Berger
 166 VALLEY STREET, BUILDING 5
 PROVIDENCE, RI 02909
 TEL 401 521 5980
 WWW.LOUISBERGER.COM

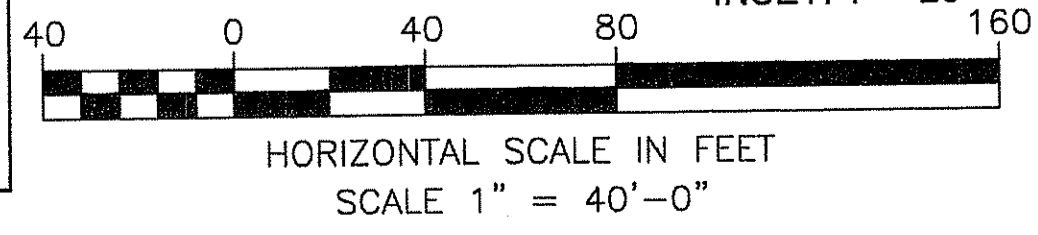
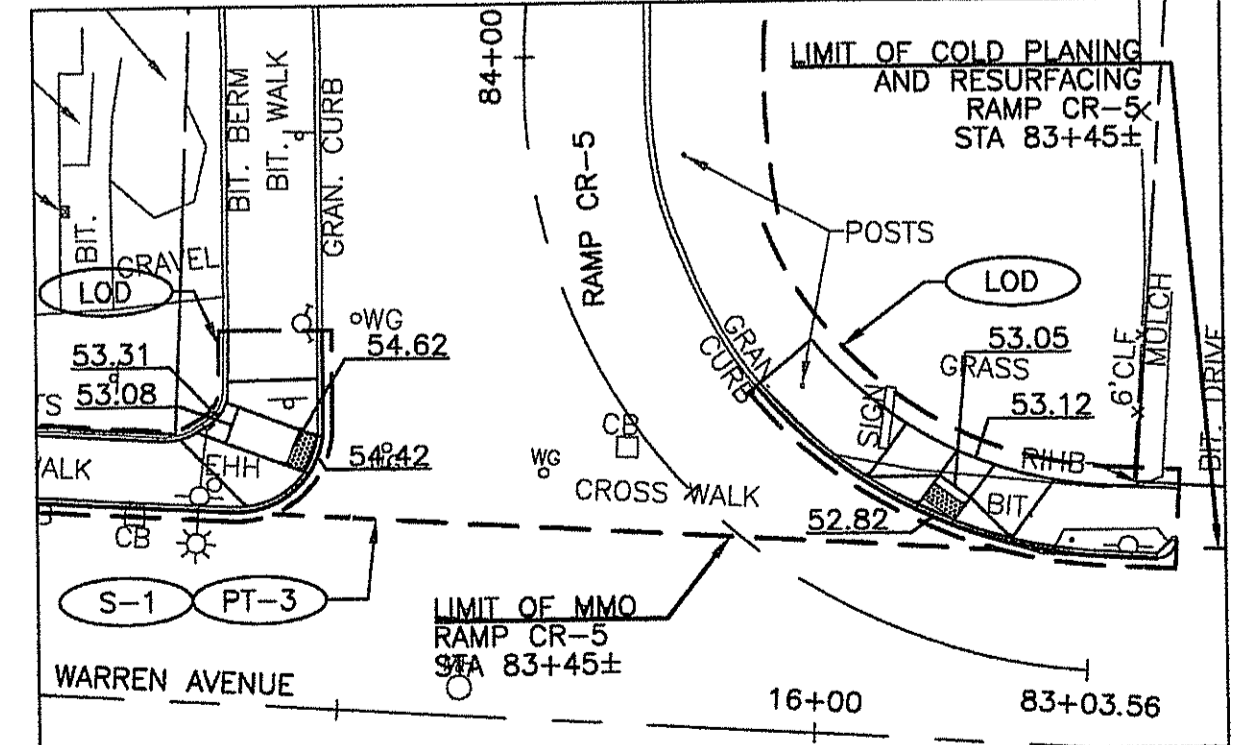
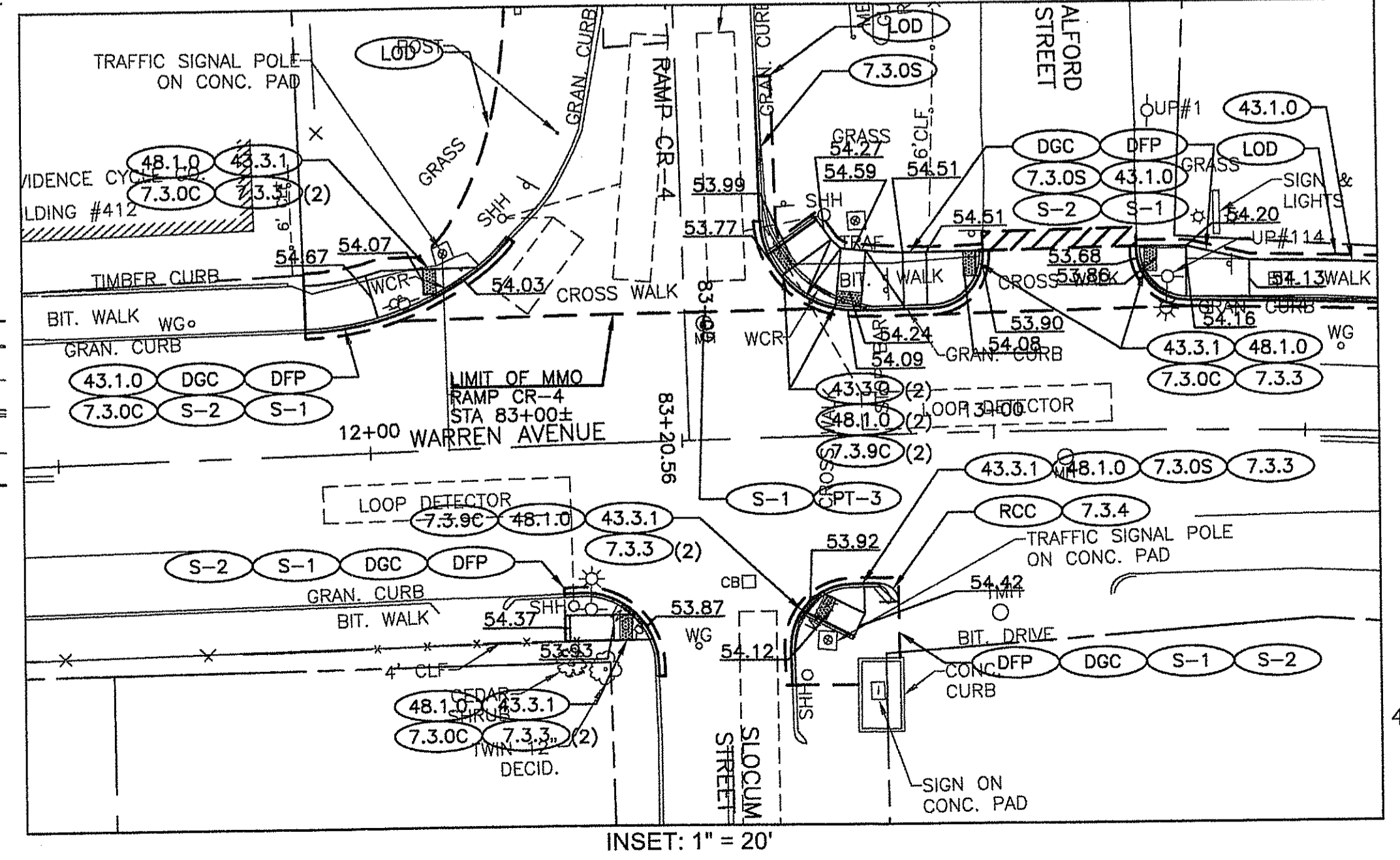
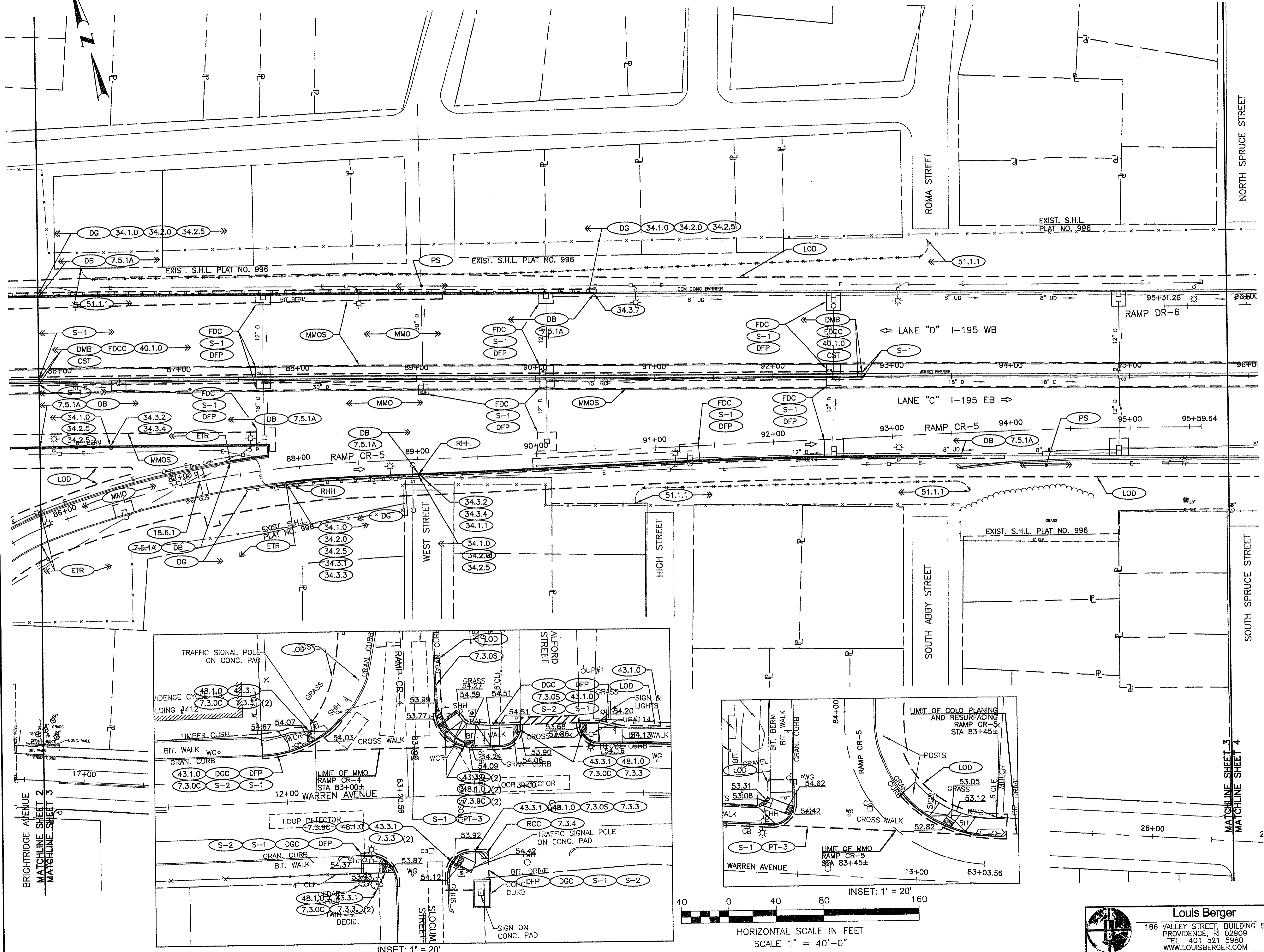
REVISIONS	NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

**IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND**

PERMIT PLANS
GENERAL PLAN
 SHEET 2 OF 11

CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'
 GENERAL.DWG



Louis Berger
 166 VALLEY STREET, BUILDING 5
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 WETLAND SITE PLAN APPLICATION NO. 17-003
 JAN 23 2018
 LETTER OF SAME DATE.

THOMAS ALAN HARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

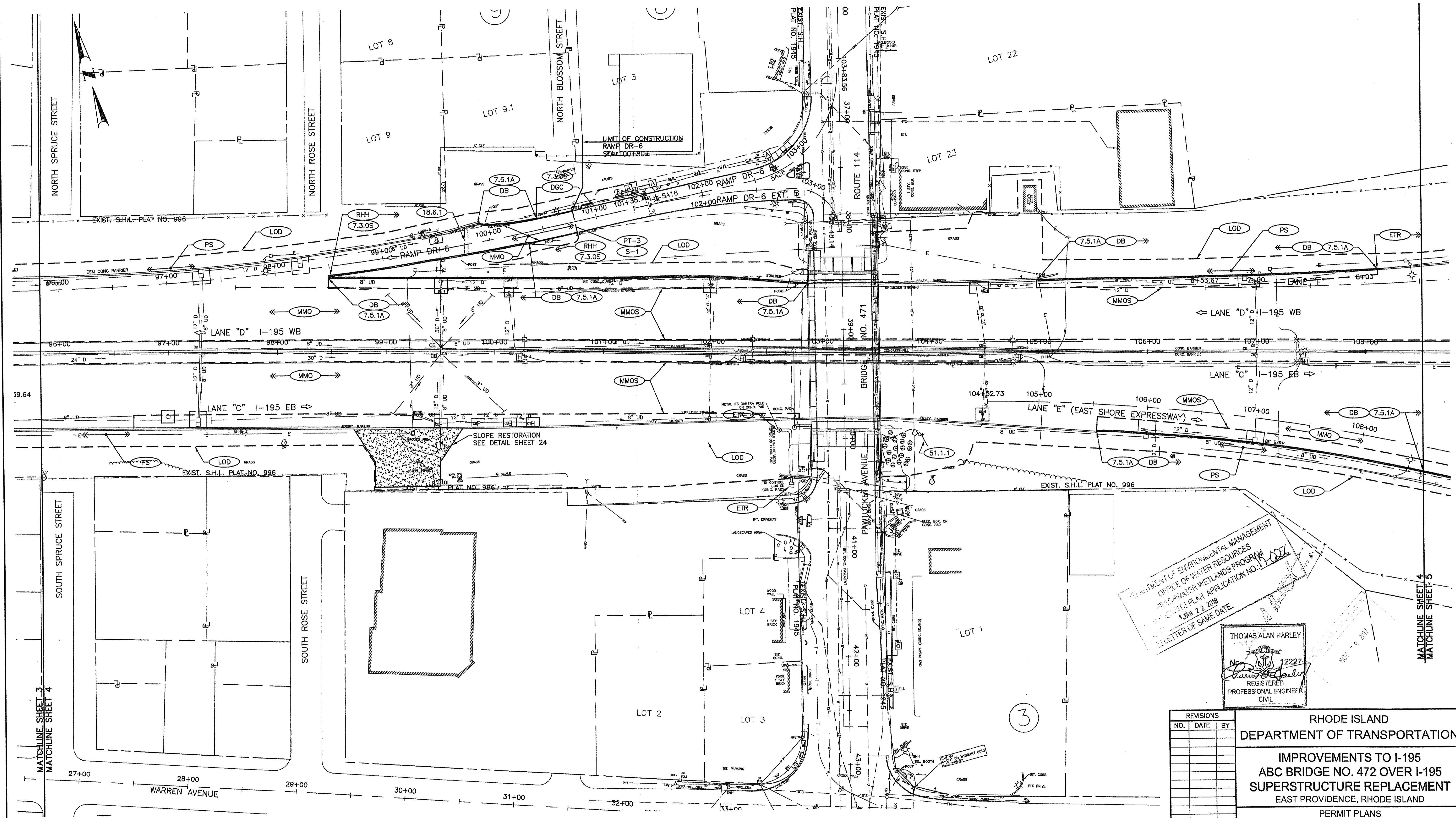
REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION**

**IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND**

PERMIT PLANS
GENERAL PLAN
 SHEET 3 OF 11

CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'
 GENERAL DWG



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 PRELIMINARY PLAN APPLICATION NO. 11-1007
 1 JAN 23 2018
 LETTER OF SAME DATE.

THOMAS ALAN HARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

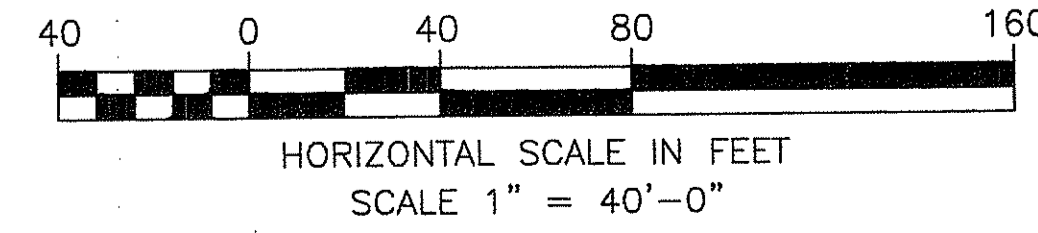
REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION**

**IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND**

PERMIT PLANS
GENERAL PLAN
 SHEET 4 OF 11

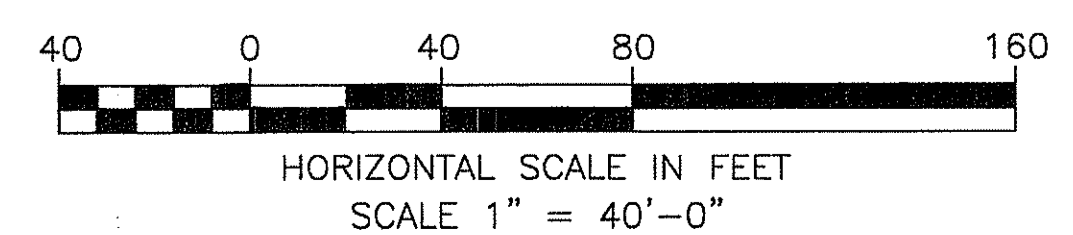
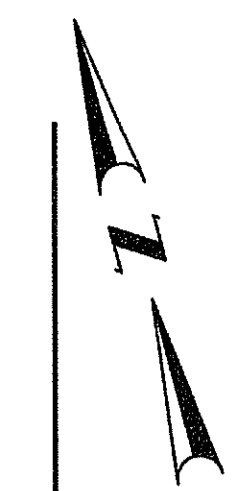
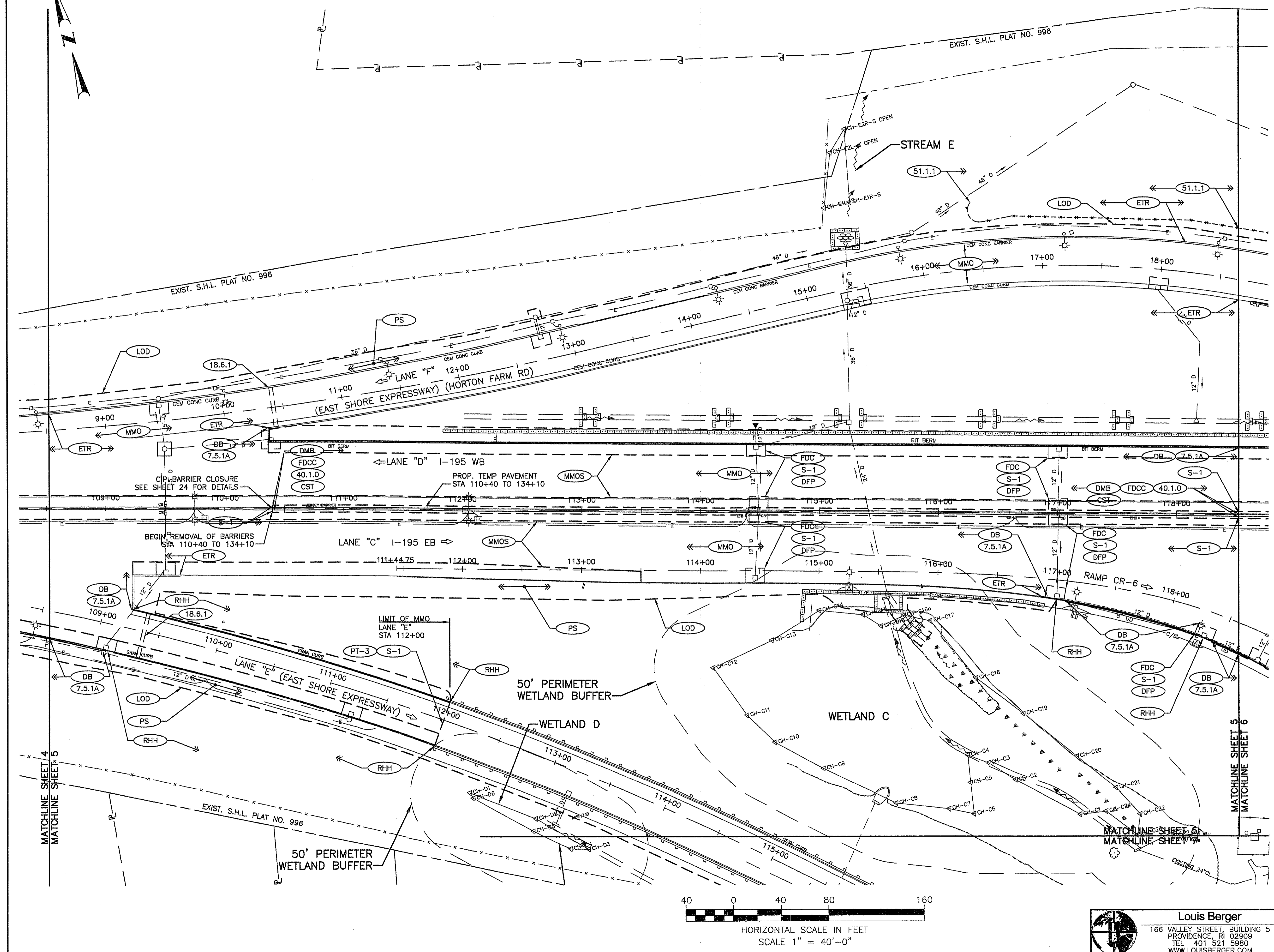
CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'



Louis Berger
 166 VALLEY STREET, BUILDING 5
 PROVIDENCE, RI 02909
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MATCHLINE SHEET 3
MATCHLINE SHEET 4

MATCHLINE SHEET 4
MATCHLINE SHEET 5



Louis Berger
 166 VALLEY STREET, BUILDING 5
 PROVIDENCE, RI 02909
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 WWW.LOUISBERGER.COM

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 1708
 JAN 23 2018
 SEE LETTER OF SAME DATE.

THOMAS ALAN HARLEY
 No. 12227
 REGISTERED
 PROFESSIONAL ENGINEER
 CIVIL

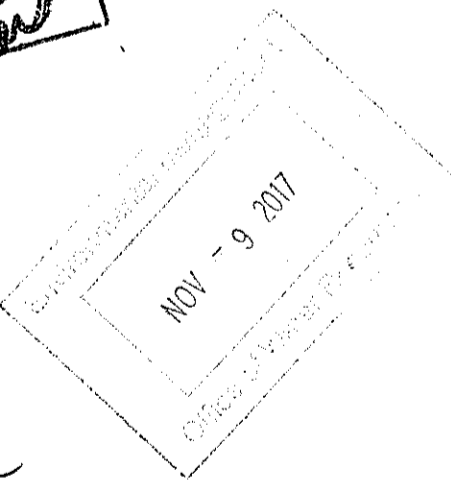
REVISIONS		
NO.	DATE	BY

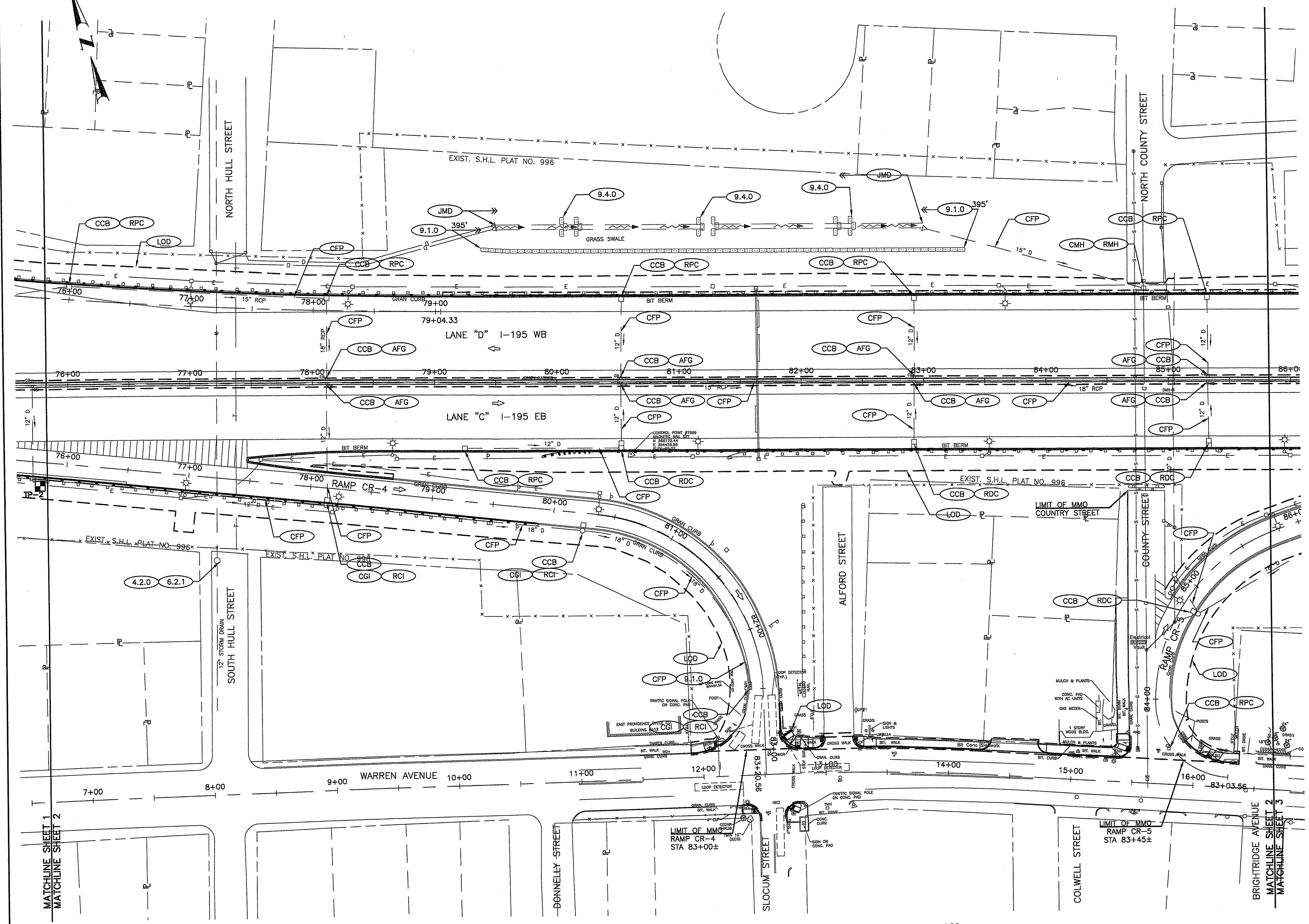
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND

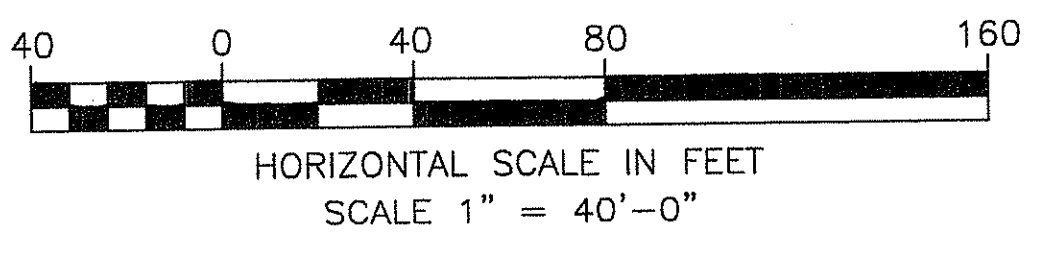
PERMIT PLANS
GENERAL PLAN
 SHEET 5 OF 11

CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'
 GENERAL.DWG





- NOTE:**
- SEE DRAINAGE DETAILS FOR DISPOSITION OF STRUCTURE AND FRAME AND GRATE OR FRAME AND COVER.
 - DISPOSITION OF ALL STRUCTURES TO BE VERIFIED BY THE ENGINEER.
 - EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE GAS AND ELECTRIC WAS TAKEN FROM PLANS PROVIDED BY NATIONAL GRID.
 - SEE LIGHTING PLANS FOR DISPOSITION OF EXISTING LIGHTING SYSTEM.



Louis Berger
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 17-003
DATED JAN 23 2018
USE LETTER OF SAME DATE.

THOMAS ALAN HARLEY
REGISTERED PROFESSIONAL ENGINEER
CIVIL

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

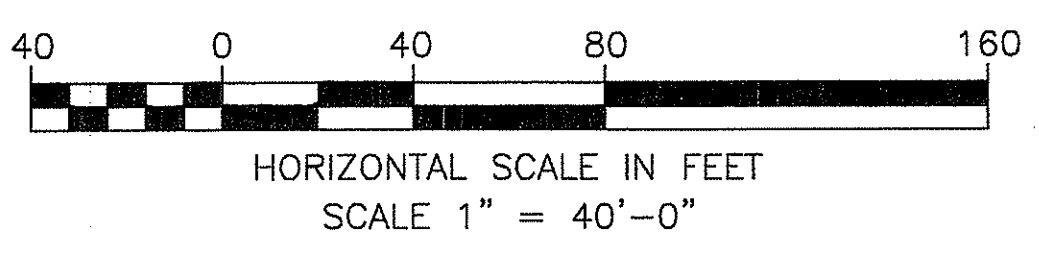
IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT
EAST PROVIDENCE, RHODE ISLAND

PERMIT PLANS
DRAINAGE & UTILITY PLAN
SHEET 2 OF 11

CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'



- NOTE:**
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Louis Berger
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO.: 17035
 JAN 23 2018
 SEE LETTER OF SAME DATE.

THOMAS ALAN MARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

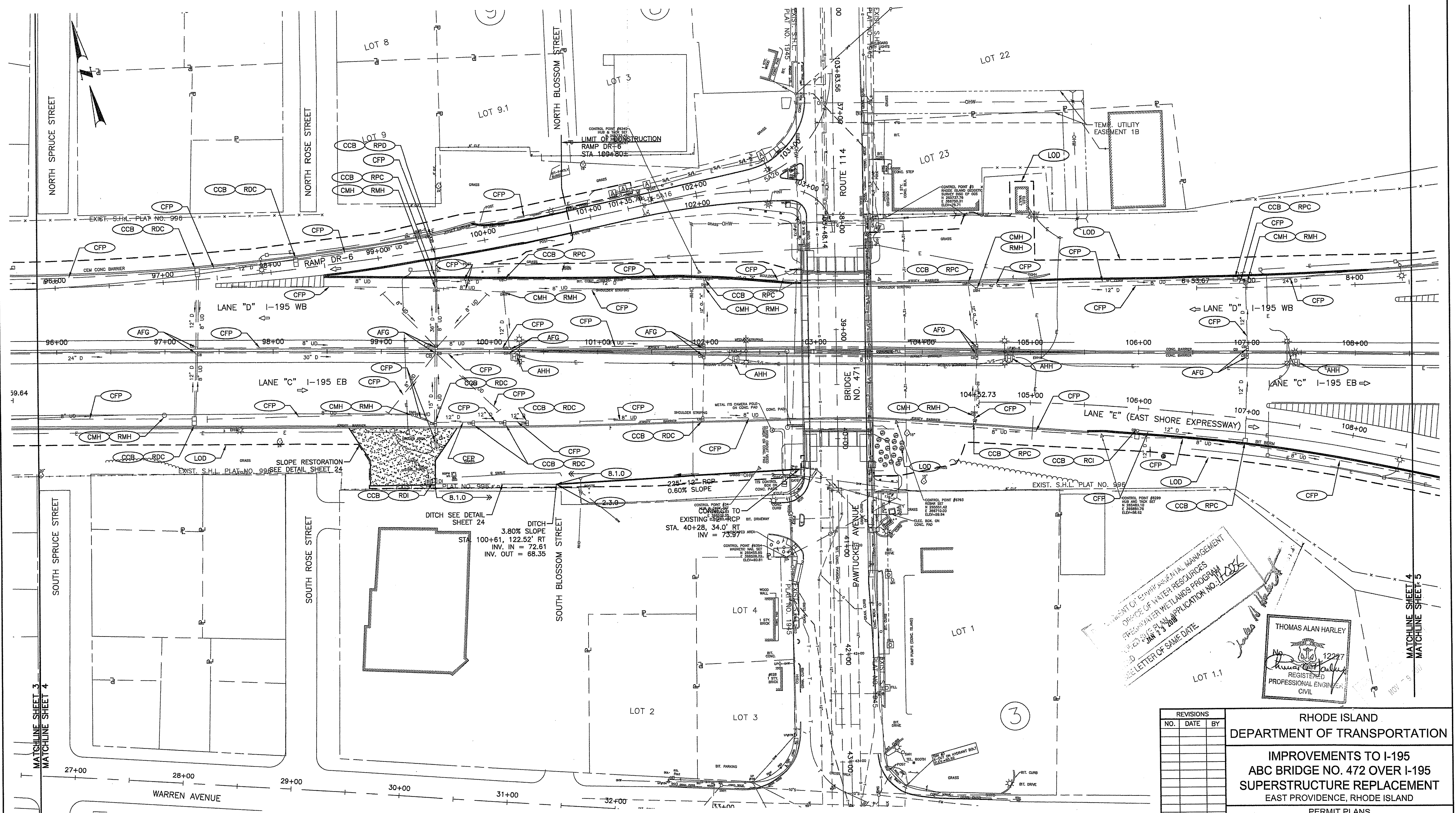
REVISIONS		
NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

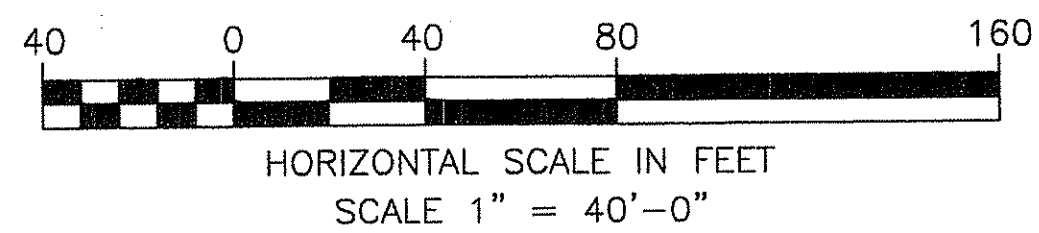
**IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND**

PERMIT PLANS
DRAINAGE & UTILITY PLAN
 SHEET 3 OF 11

CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'



- NOTE:**
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Louis Berger
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STATEMENT OF WORKING BASIS FOR PERMIT
OFFICE OF WATER RESOURCES
PERMIT FOR WETLANDS PROGRAM
JAN 23 2018
LETTER OF SAME DATE

THOMAS ALAN HARLEY
No. 12297
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

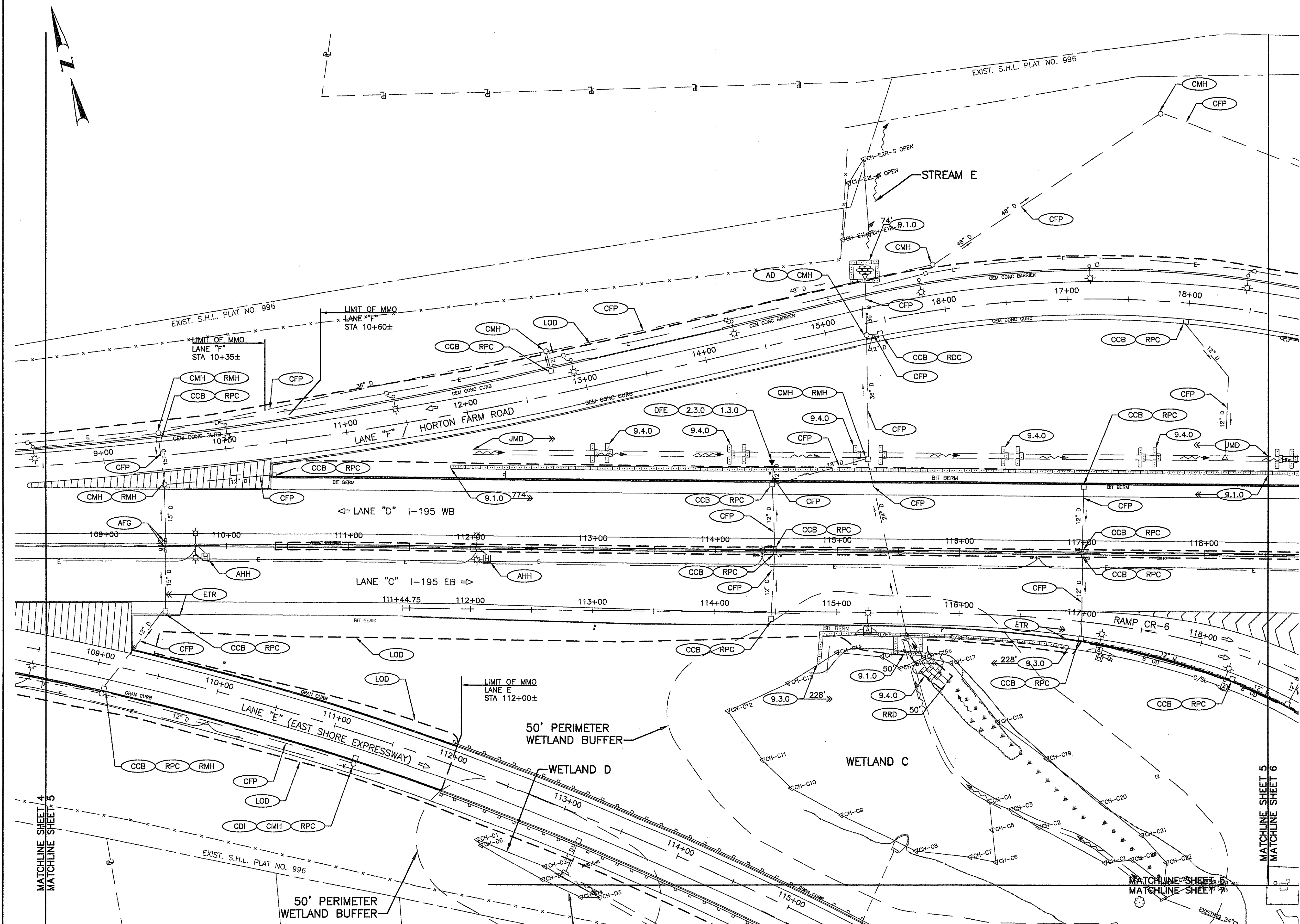
REVISIONS	NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT**
EAST PROVIDENCE, RHODE ISLAND

PERMIT PLANS
DRAINAGE & UTILITY PLAN
SHEET 4 OF 11

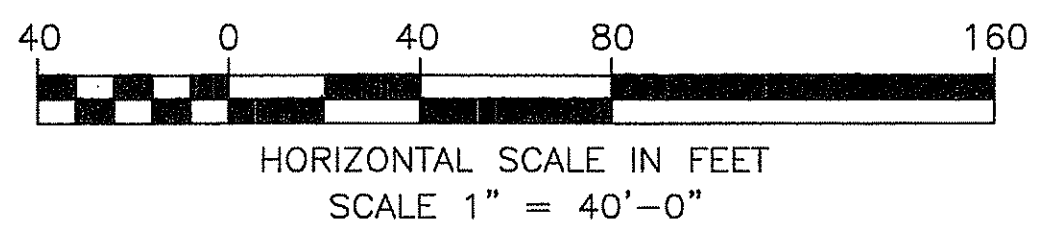
CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED SITE PLAN APPLICATION NO.: 17-005
 DATED JAN 23 2018
 (SEE LETTER OF SAME DATE.)

THOMAS ALAN HARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

- NOTE:**
- SEE DRAINAGE DETAILS FOR DISPOSITION OF STRUCTURE AND FRAME AND GRATE OR FRAME AND COVER.
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Louis Berger
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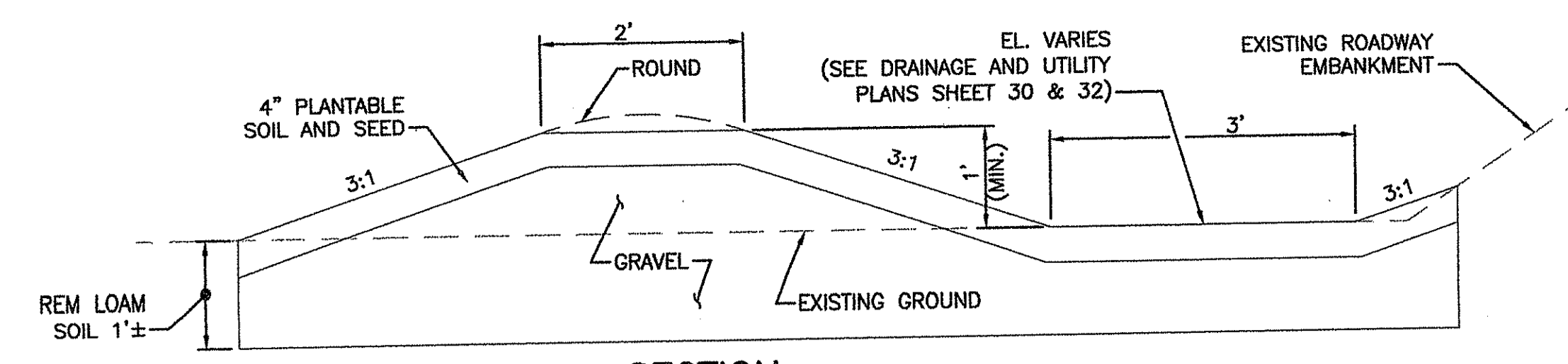
REVISIONS		
NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

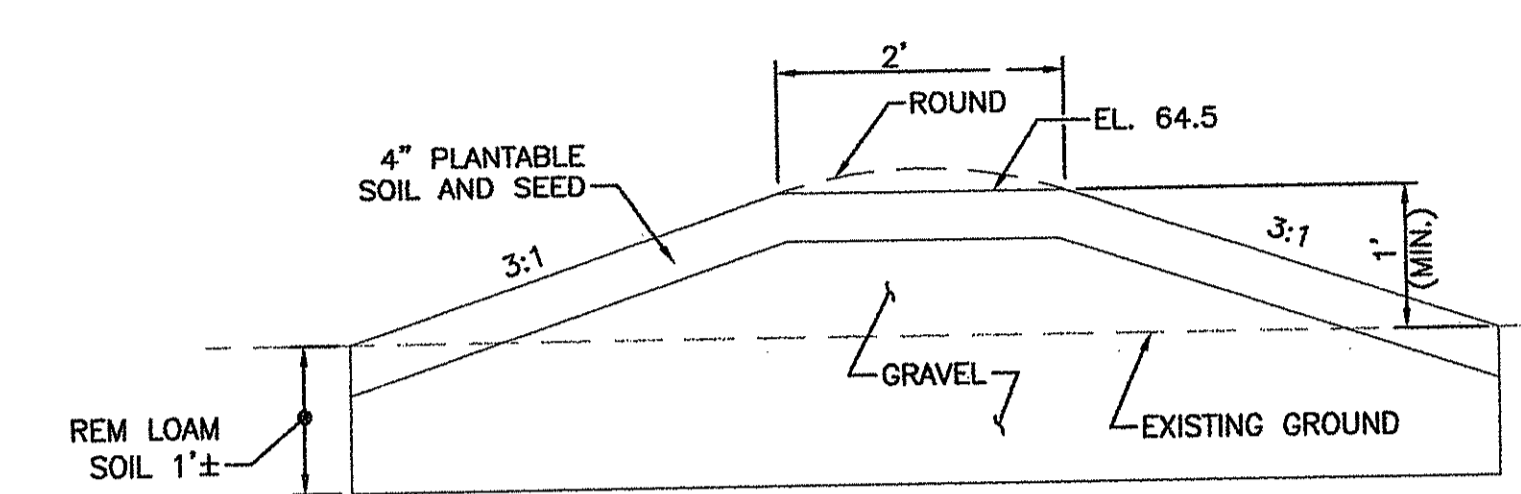
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 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND**

PERMIT PLANS
DRAINAGE & UTILITY PLAN
 SHEET 5 OF 11

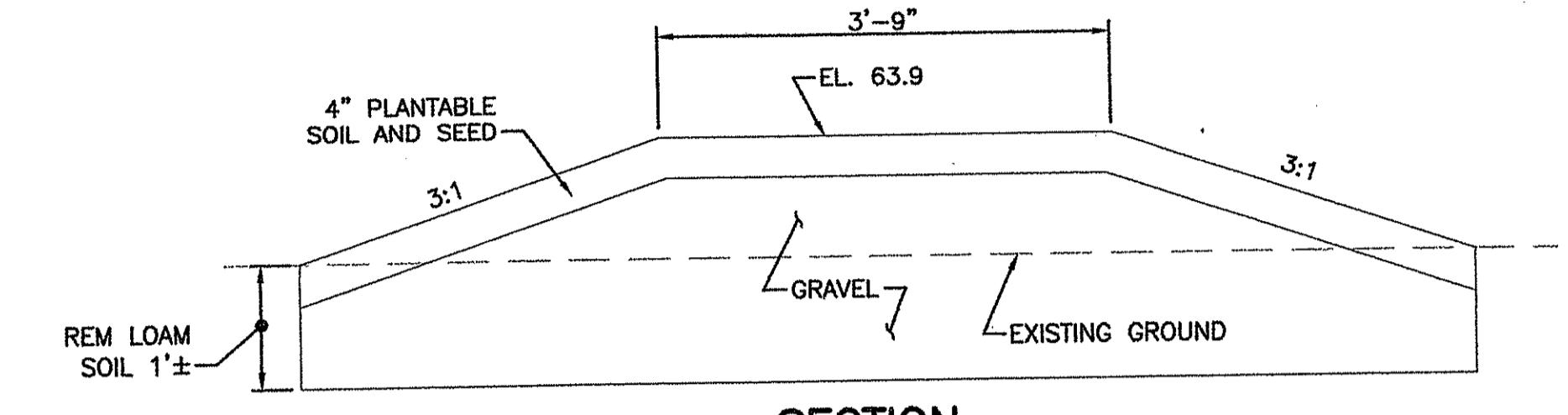
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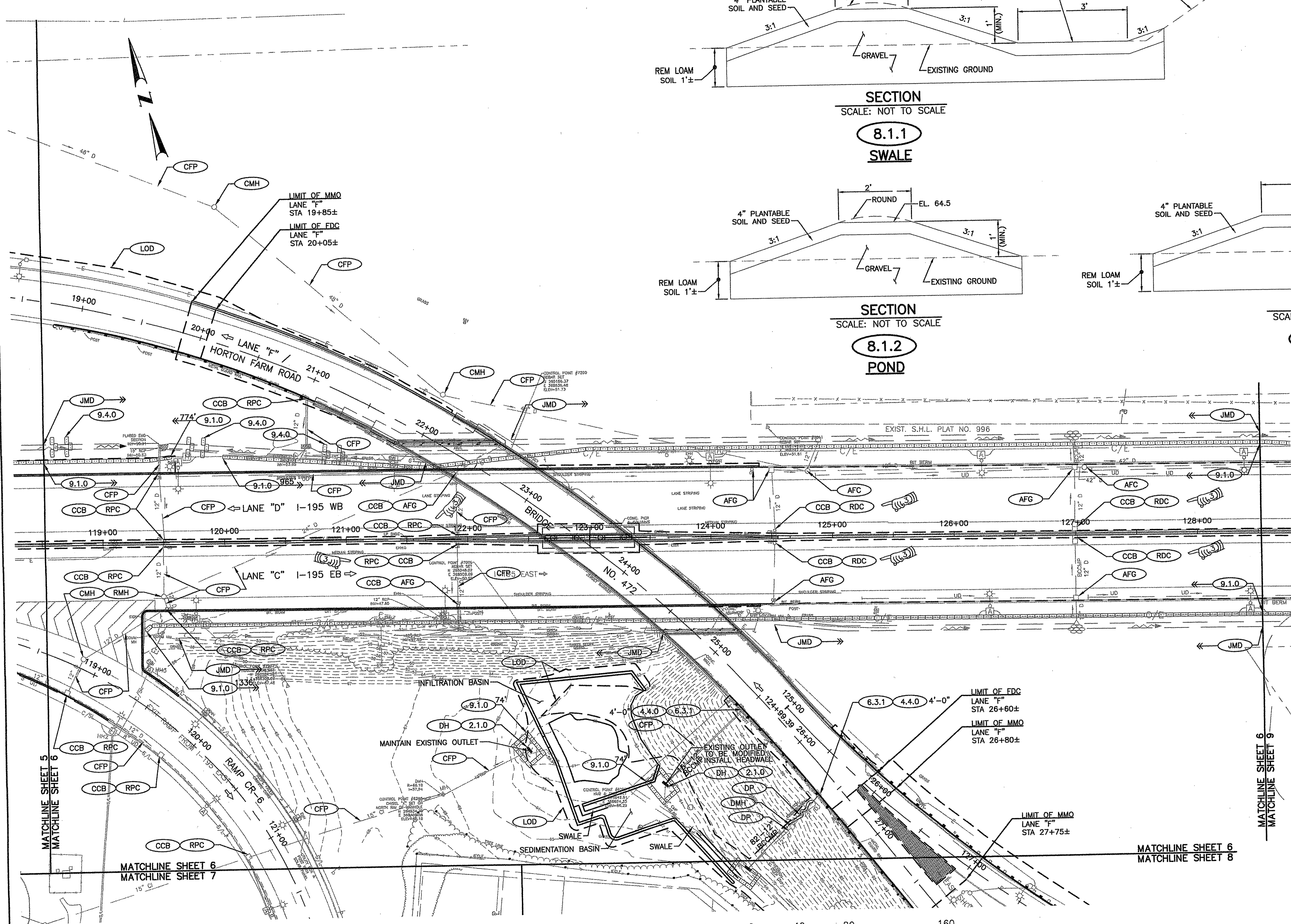
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SECTION
 SCALE: NOT TO SCALE
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POND



SECTION
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DEPARTMENT OF WATER RESOURCES MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 17-003
 DATED JAN 3 2018
 SEE LETTER OF SAME DATE.

Environmental Management
 JAN - 5 2018
 Office of Water Resources

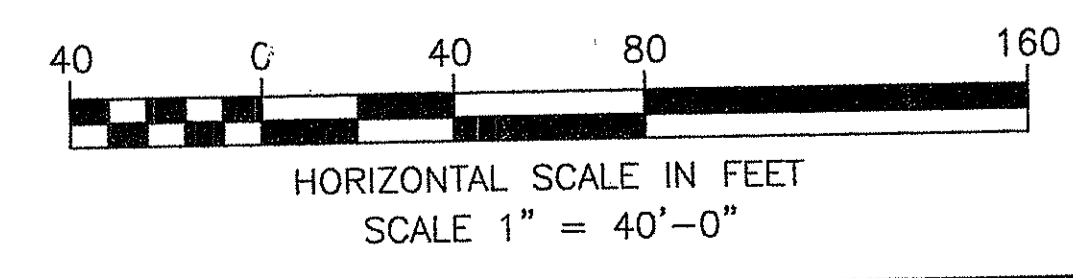
THOMAS L. HARLEY
 12227
 REGISTERED PROFESSIONAL ENGINEER CIVIL

ENTIRE SHEET REPLACED BY
 ADDENDUM NO. 7

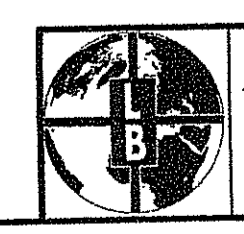
REVISIONS	NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND
DRAINAGE & UTILITY PLAN
 SHEET 6 OF 11
 CHECKED BY PWS DATE 6/1/17 SCALE 1"=40'

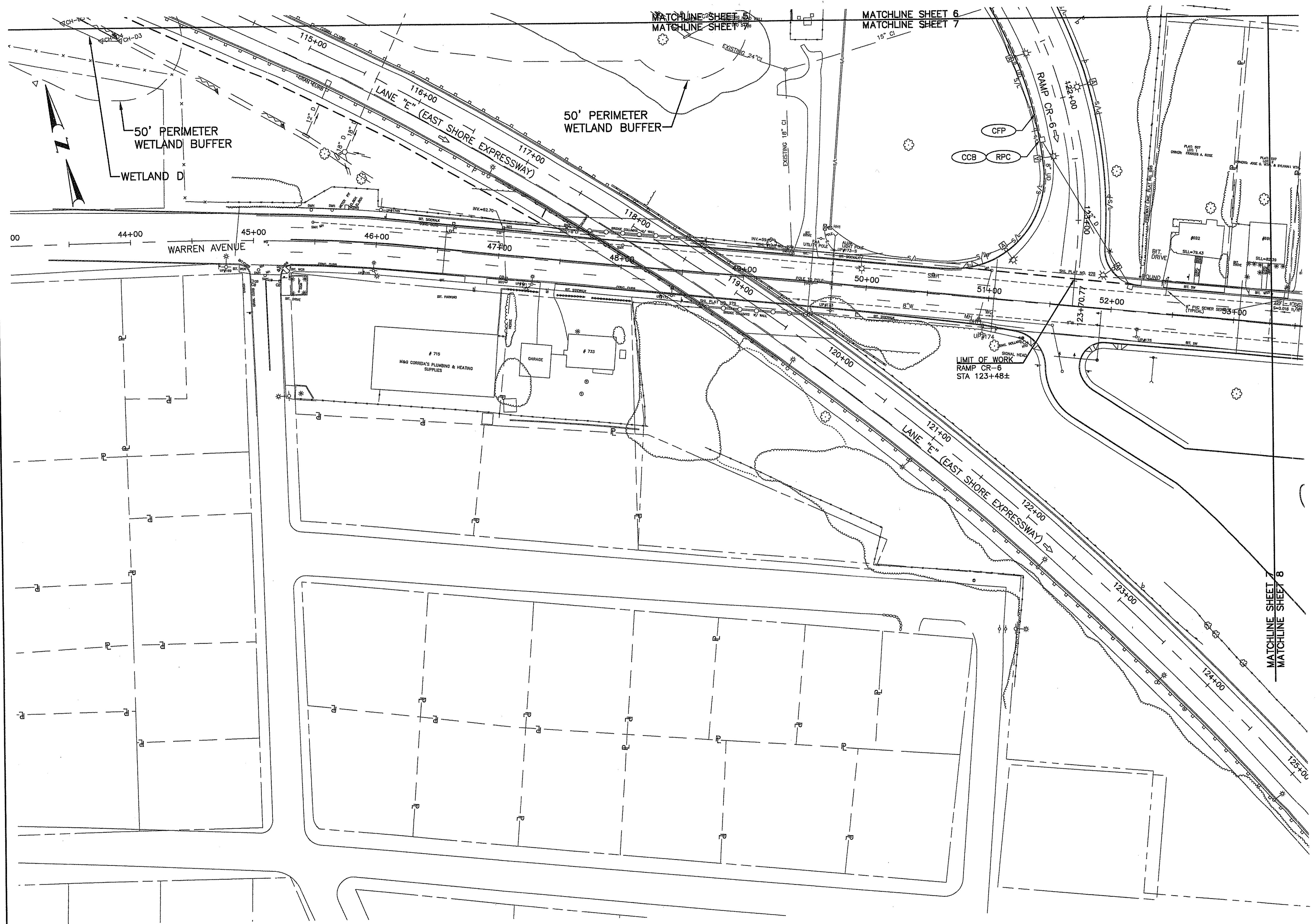
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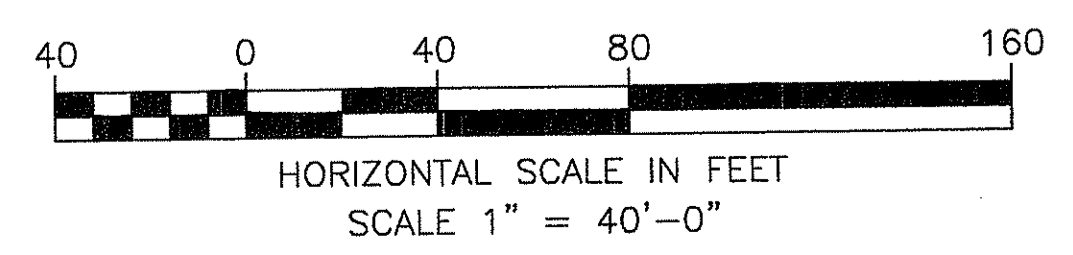
ADDENDUM NO. 7



Louis Berger
 166 VALLEY STREET, BUILDING 5
 PROVIDENCE, RI 02909
 TEL 401 521 5980
 WWW.LOUISSBERGER.COM



- NOTE:**
- SEE DRAINAGE DETAILS FOR DISPOSITION OF STRUCTURE AND FRAME AND GRATE OR FRAME AND COVER.
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Louis Berger
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 WWW.LOUISSBERGER.COM

REVISIONS	NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

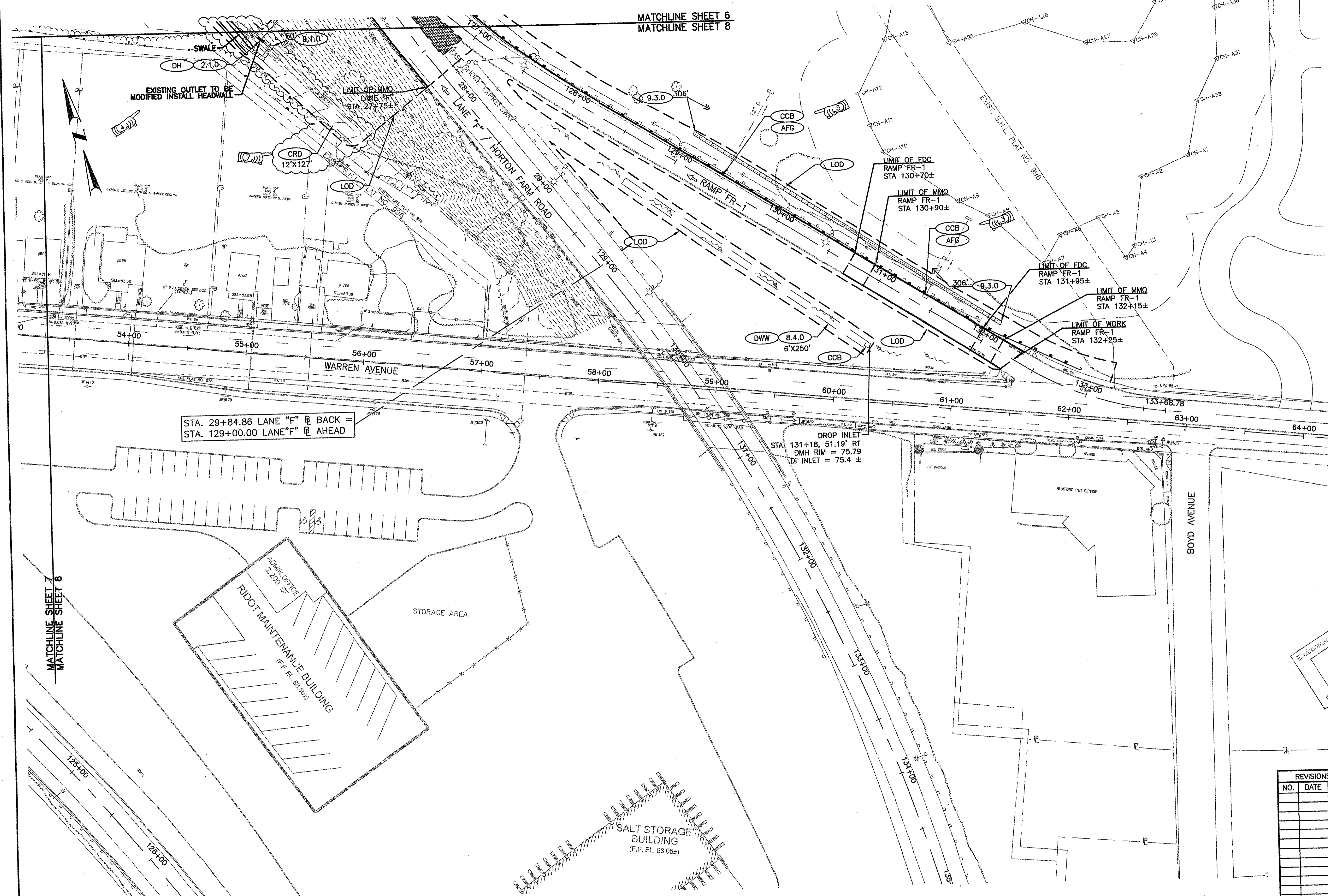
IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND

PERMIT PLANS
DRAINAGE & UTILITY PLAN
 SHEET 7 OF 11

CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'

DIVISION OF ENVIRONMENTAL MANAGEMENT
 STATE OF RHODE ISLAND
 PERMITTING PROGRAM
 PERMIT APPLICATION NO. 17-001
 JAN 23 2018
 BY LETTERS OF SAME DATE.

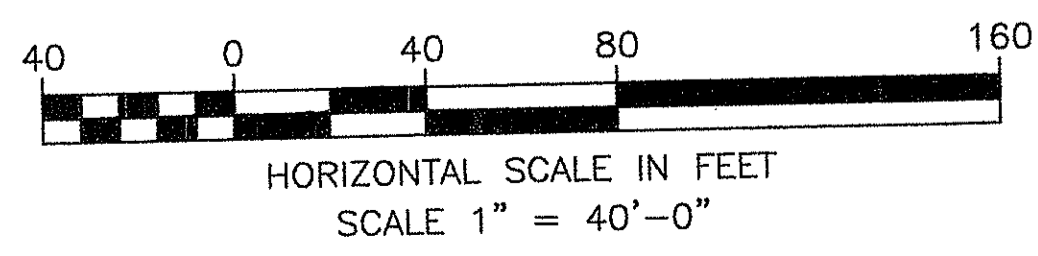
THOMAS ALAN HARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL



STA. 29+84.86 LANE "F" @ BACK =
 STA. 129+00.00 LANE "F" @ AHEAD

DROP INLET
 STA. 131+18, 51.19' RT
 DMH RIM = 75.79
 DI INLET = 75.4 ±

- NOTE:**
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ADDENDUM NO. 7



Louis Berger
 166 VALLEY STREET, BUILDING 5
 PROVIDENCE, RI 02909
 TEL 401 521 5980
 WWW.LOUISBERGER.COM

REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION**

**IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND**

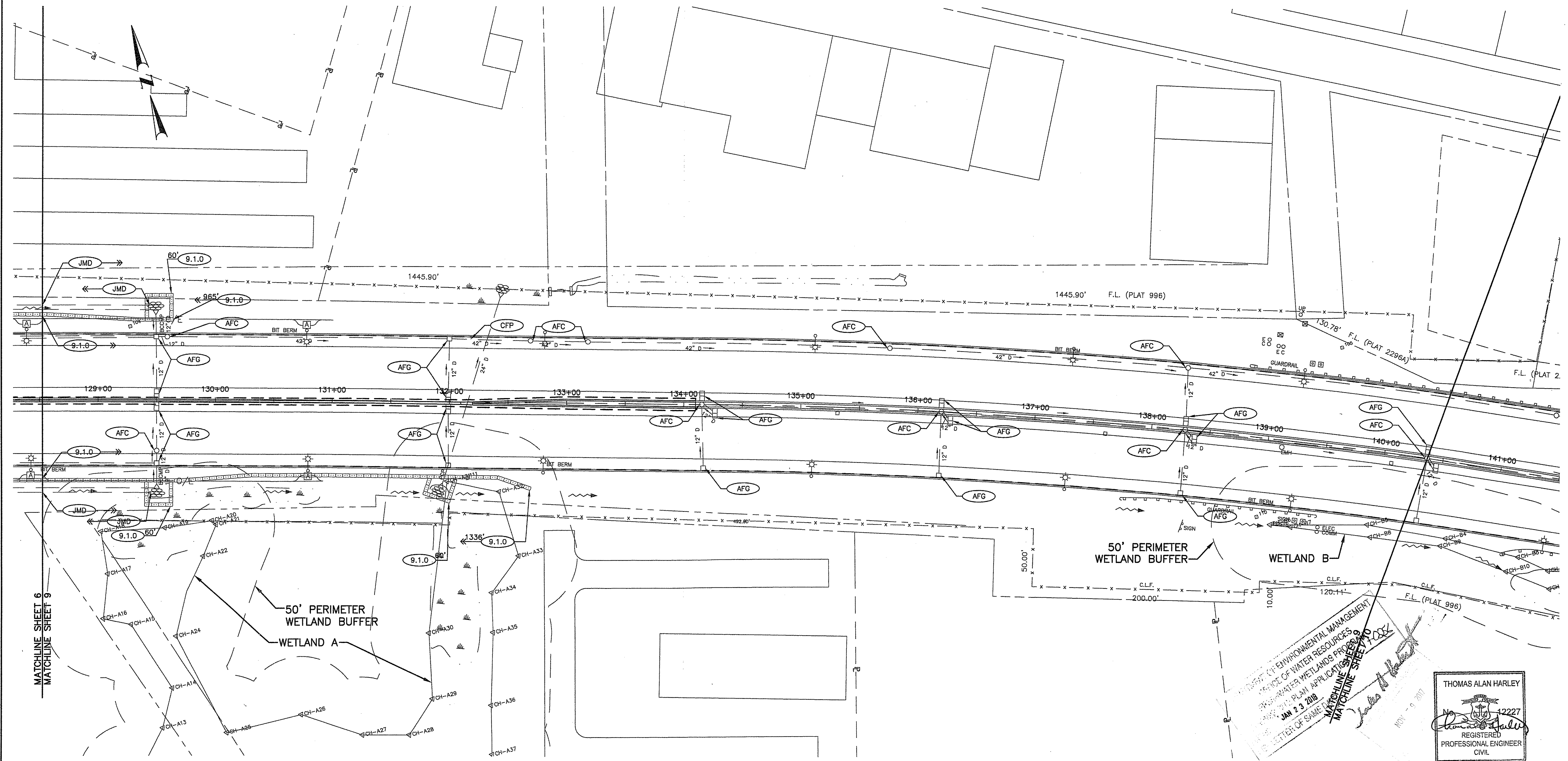
DRAINAGE & UTILITY PLAN
 SHEET 8 OF 11

CHECKED BY PWS DATE 6/1/17 SCALE 1"=40'
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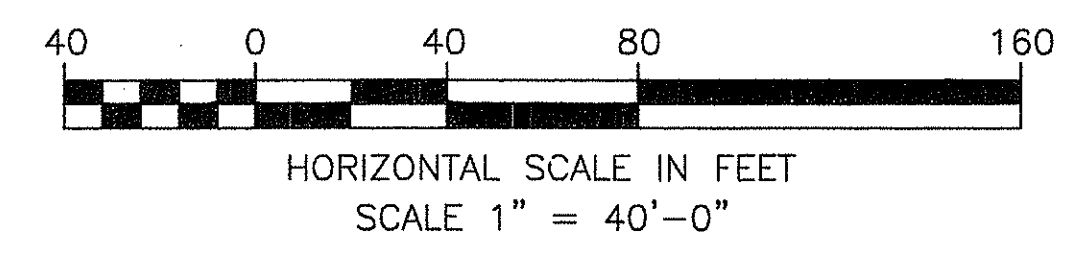
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION NO. 17-0056
 DATED JAN 23 2018
 SEE LETTER OF SAME DATE

Environmental Management
 JAN - 5 2018
 Office of Water Resources

THOMAS ALAN HARLEY
 No. 12227
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL



- NOTE:**
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Louis Berger
 166 VALLEY STREET, BUILDING 5
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 WWW.LOUISBERGER.COM

REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

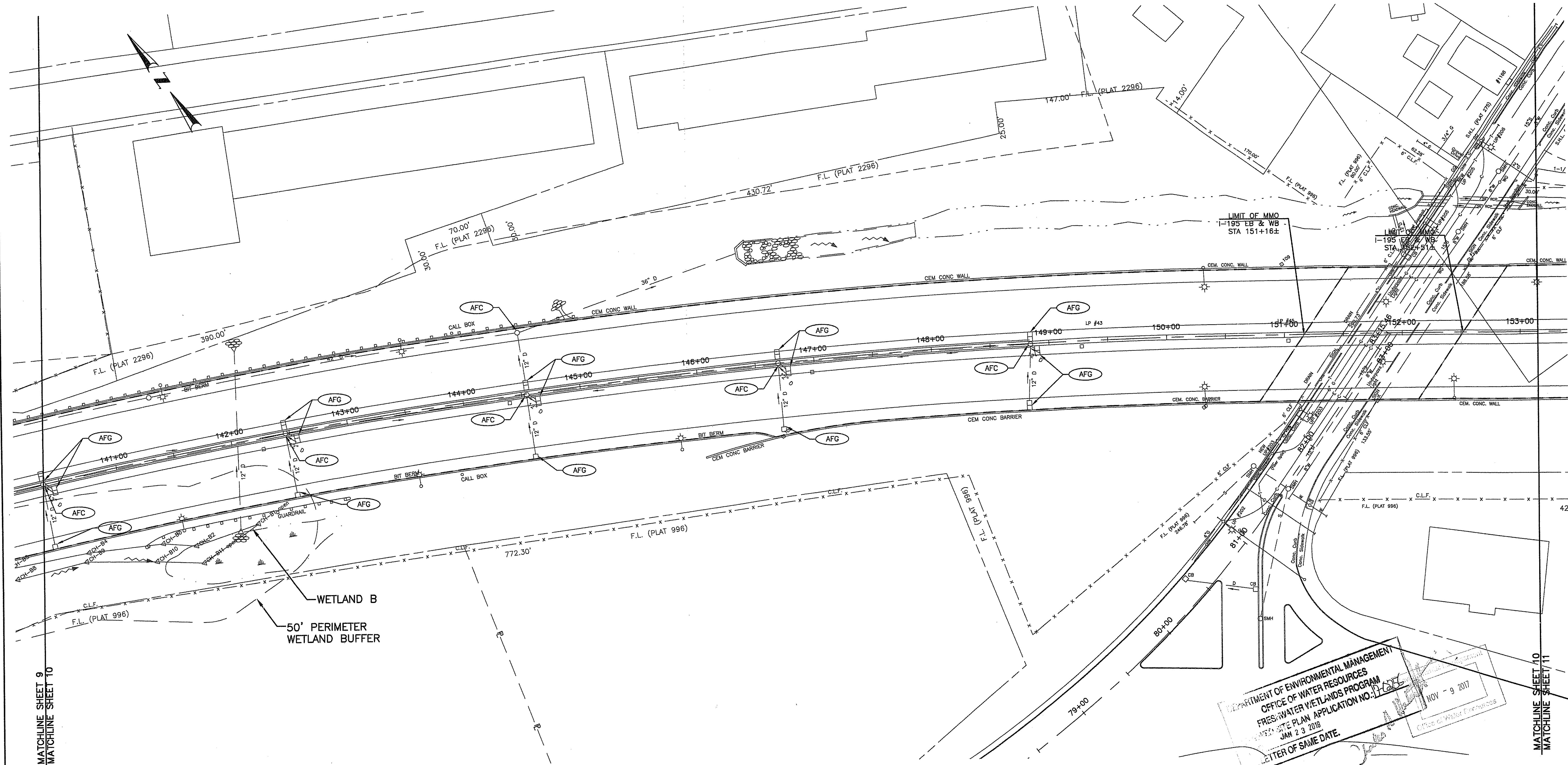
**IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT
EAST PROVIDENCE, RHODE ISLAND**

PERMIT PLANS
DRAINAGE & UTILITY PLAN
SHEET 9 OF 11

CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'

THOMAS ALAN HARLEY
 No. 42227
 REGISTERED
 PROFESSIONAL ENGINEER
 CIVIL

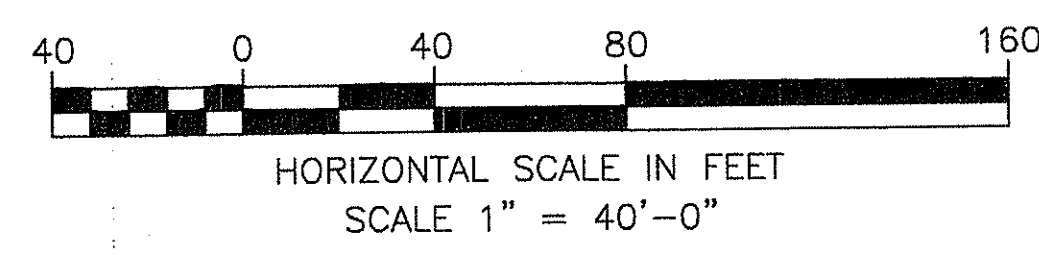
STATE OF ENVIRONMENTAL MANAGEMENT
 DEPARTMENT OF WATER RESOURCES
 PERMIT PLAN APPLICATION SHEET 9
 JAN 23 2018
 MATCHLINE SHEET 9
 MATCHLINE SHEET 10



MATCHLINE SHEET 9
MATCHLINE SHEET 10

MATCHLINE SHEET 10
MATCHLINE SHEET 11

- NOTE:**
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THOMAS ALAN HARLEY
No. 12227
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PROFESSIONAL ENGINEER
CIVIL



Louis Berger
166 VALLEY STREET, BUILDING 5
PROVIDENCE, RI 02909
TEL 401 521 5980
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REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT
EAST PROVIDENCE, RHODE ISLAND**

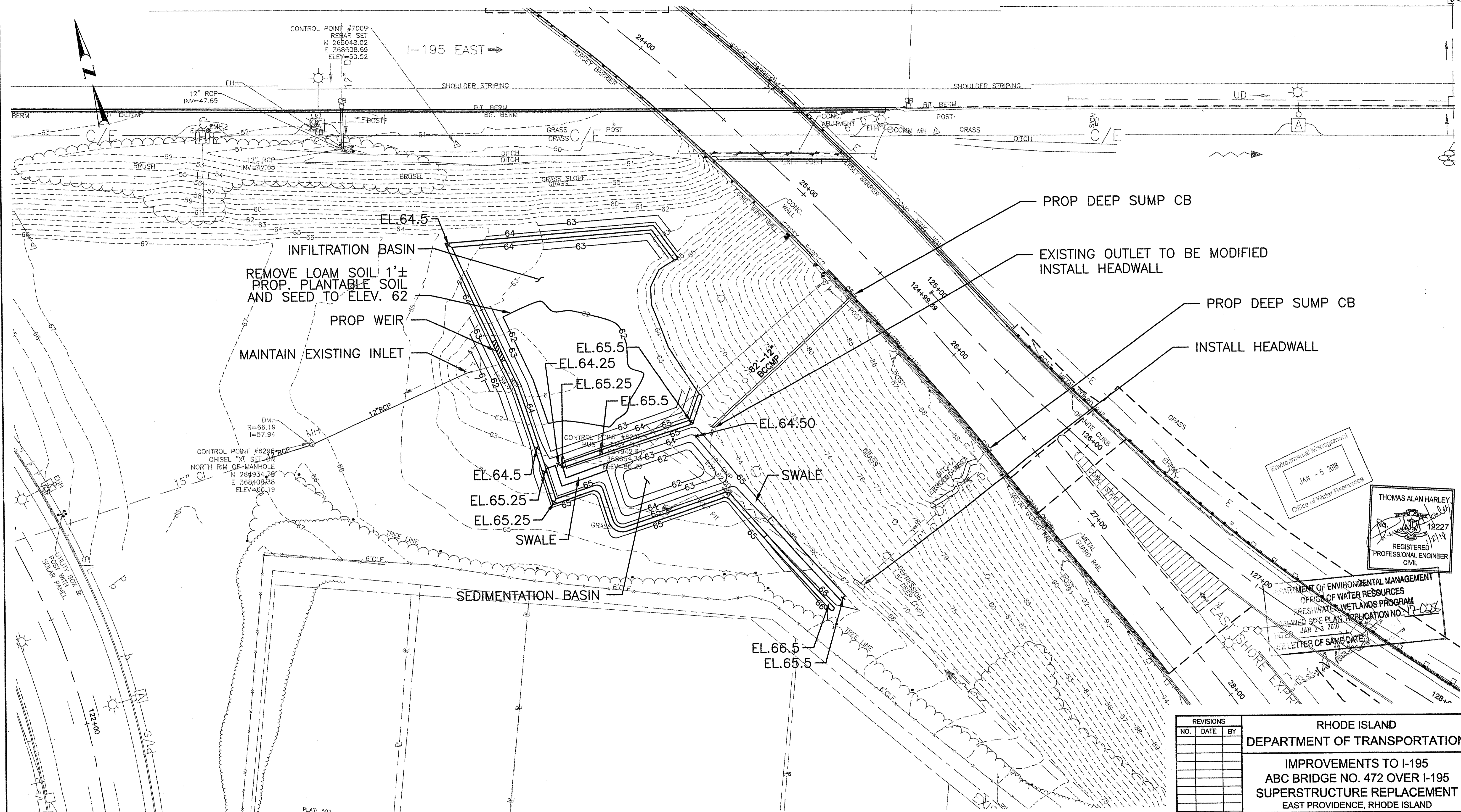
PERMIT PLANS
DRAINAGE & UTILITY PLAN
SHEET 10 OF 11

CHECKED BY PWS DATE 11/7/17 SCALE 1"=40'

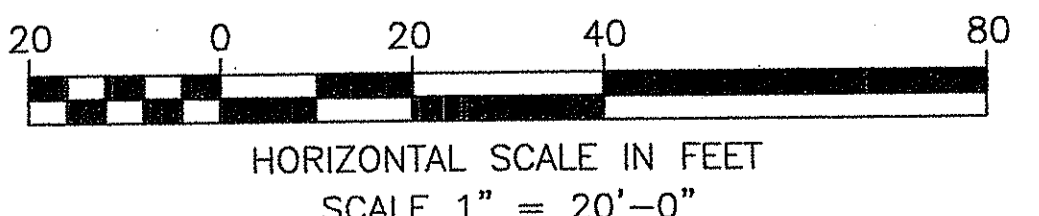
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
PERMIT SITE PLAN APPLICATION NO. 1705
JAN 23 2018
LETTER OF SAME DATE.

NOV - 9 2017
Office of Water Resources

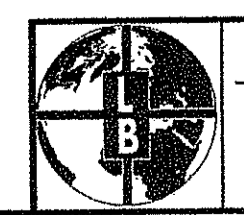
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	STP-RESF(360)	2017	36A	42



NOTE:
EQUIVALENT AREA TO HAVE STORM WATER TREATMENT
PROPOSED INFILTRATION BASIN IS SEPARATED FROM WETLAND A AND WETLAND C BY CURBED ROADWAYS.
LOGS OF THE TEST PITS ARE LOCATED IN THE REPORT.



ADDENDUM NO. 7



Louis Berger
166 VALLEY STREET, BUILDING 5
PROVIDENCE, RI 02909
TEL 401 521 5980
WWW.LOUISBERGER.COM

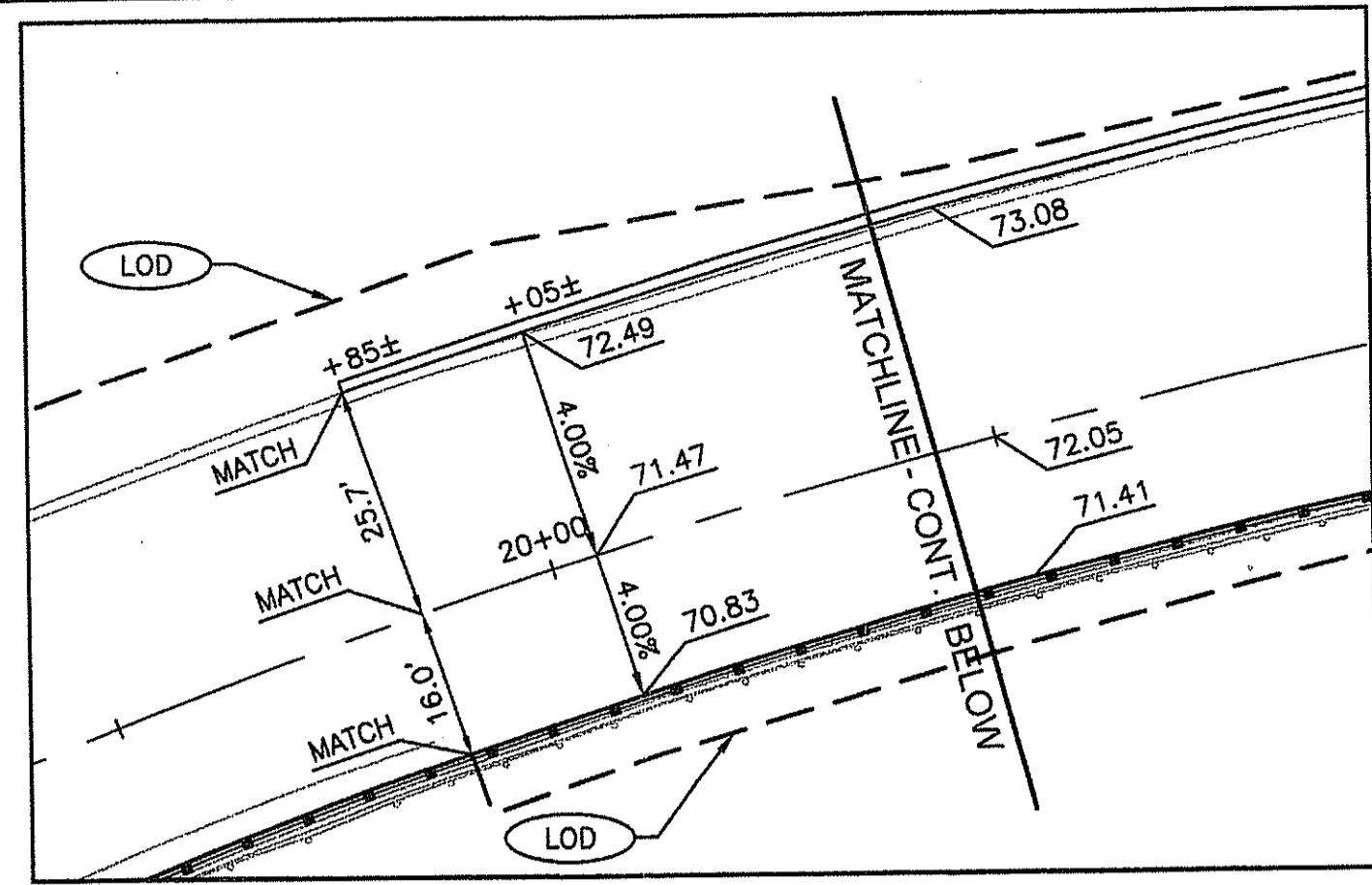
Environmental Management
JAN - 5 2018
Office of Water Resources

THOMAS ALAN HARLEY
No. 12227
REGISTERED PROFESSIONAL ENGINEER CIVIL

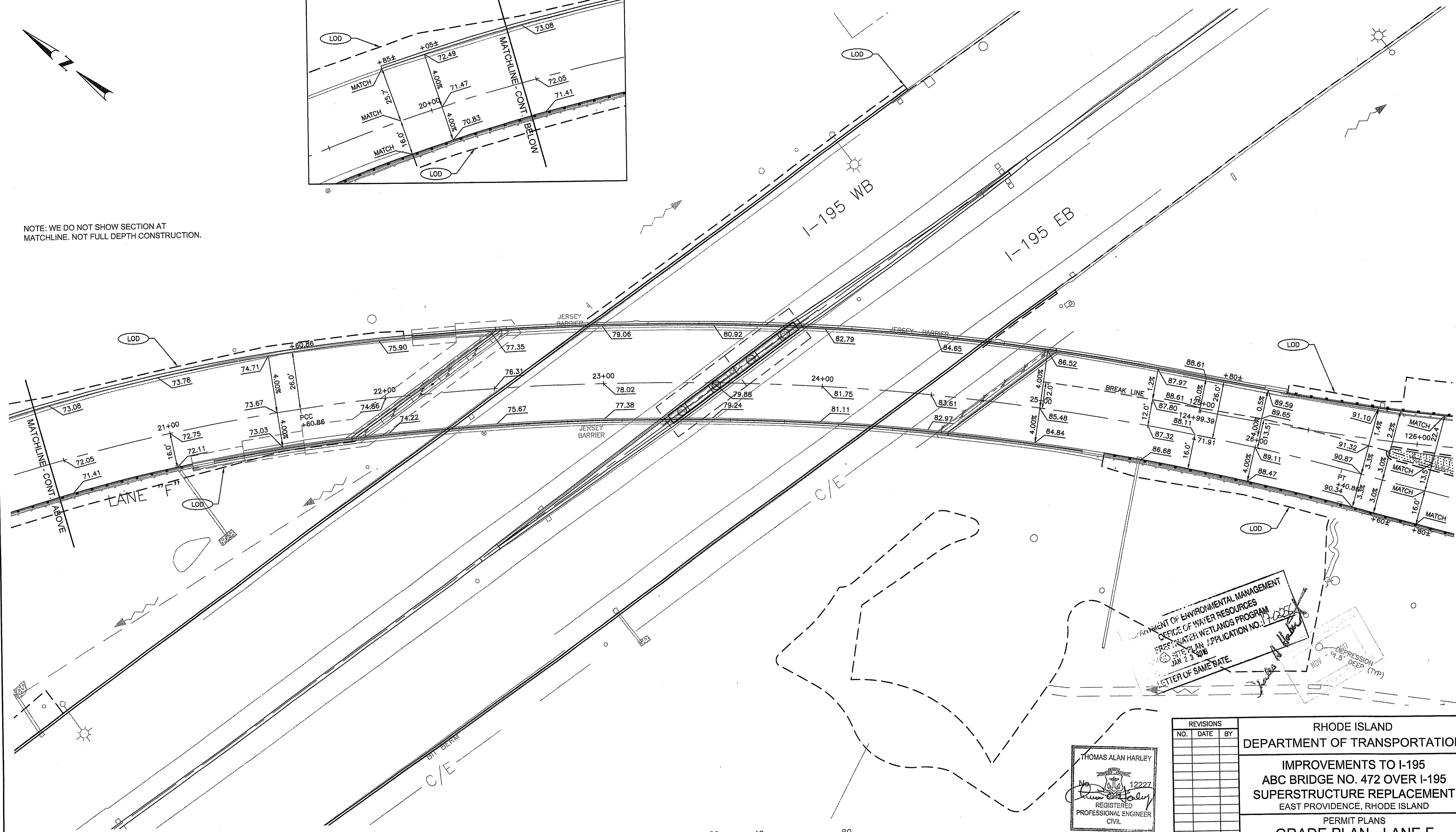
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION NO. 17-056
JAN 23 2018
SEE LETTER OF SAME DATE

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT
EAST PROVIDENCE, RHODE ISLAND
**PROPOSED BASIN
GRADING PLAN**
CHECKED BY PWS DATE 10/18/17 SCALE 1"=40'
DRAINDET1-BASIN.DWG



NOTE: WE DO NOT SHOW SECTION AT MATCHLINE. NOT FULL DEPTH CONSTRUCTION.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 SITE PLAN APPLICATION NO. 17-008
 JAN 23 2018
 LETTER OF SAME DATE.

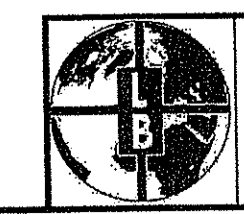
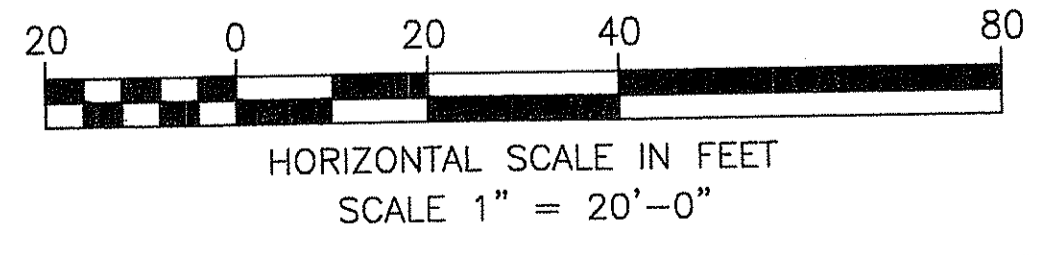
THOMAS ALAN HARLEY
 No. 12227

 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

REVISIONS		
NO.	DATE	BY

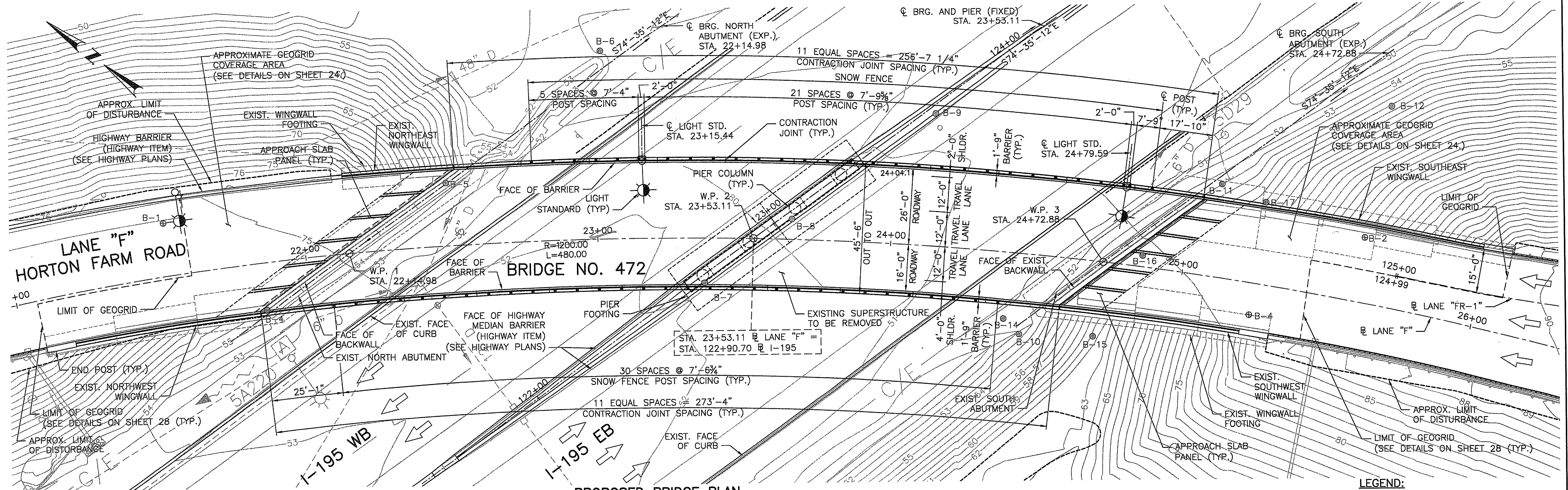
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 IMPROVEMENTS TO I-195
 ABC BRIDGE NO. 472 OVER I-195
 SUPERSTRUCTURE REPLACEMENT
 EAST PROVIDENCE, RHODE ISLAND

PERMIT PLANS
 GRADE PLAN - LANE F
 (HORTON FARM ROAD)
 SHEET 1 OF 1

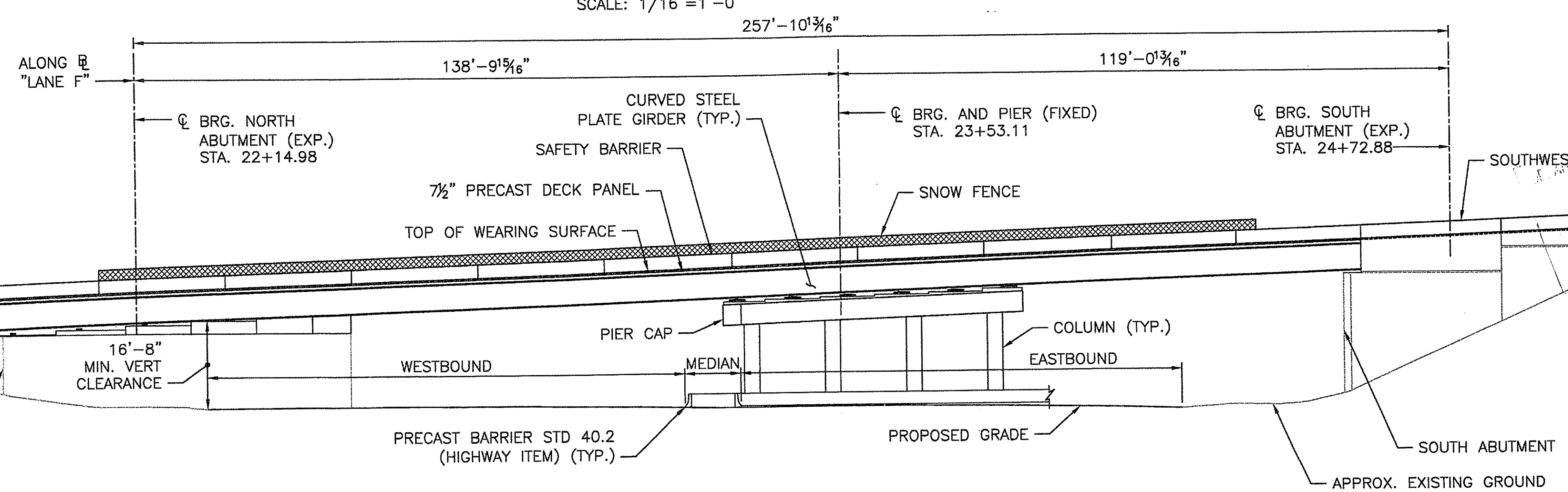


Louis Berger
 166 VALLEY STREET, BUILDING 5
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CHECKED BY PWS DATE 11/7/17 SCALE 1"=20'



WORKING POINTS			
W.P. #	STATION	NORTHING	EASTING
W.P. 1	STA. 22+14.98	265,210.5029	368,483.8694
W.P. 2	STA. 23+53.11	265,105.0647	368,574.0635
W.P. 3	STA. 24+72.88	265,006.8386	368,641.2885



- NOTES:**
- BORINGS SHOWN ON GENERAL PLAN ARE SHOWN AT APPROXIMATE LOCATIONS DEVELOPED FROM "HORTON FARM BRIDGE - SUBSURFACE EXPLORATION PLAN" DEVELOPED BY PAUL ALDINGER AND ASSOC., INC., DATED MAY 2005, AS APPEARS IN HORTON FARM BRIDGE GEOTECHNICAL REPORT DATED FEBRUARY 2012.
 - BORINGS ARE SHOWN FOR THE PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, AND DO NOT NECESSARILY SHOW THE NATURE OF THE MATERIALS TO BE ENCOUNTERED DURING CONSTRUCTION.
 - BORINGS SHOWN THUS: ⊕B-X DRILLED BY NEW HAMPSHIRE BORING INC. OF BROCKTON, MA FROM MARCH TO APRIL 2005.
 - BORINGS SHOWN THUS: ⊕B-X DRILLED BY GUILD DRILLING CO., INC. OF EAST PROVIDENCE, RI BETWEEN JUNE AND DECEMBER 1979. LOGS NOT INCLUDED IN PLANS. SEE APPENDIX OF SPECIAL PROVISIONS FOR 1979 BORING LOGS.
 - TEST PITS SHOWN THUS: ⊕TP-X EXCAVATED BY J.J. CARDOSI, INC. OF EAST PROVIDENCE, RI IN MAY 2005.

PROPOSED WESTERLY BRIDGE ELEVATION
(EASTERLY ELEVATION SIMILAR)
SCALE: 1/16"=1'-0"

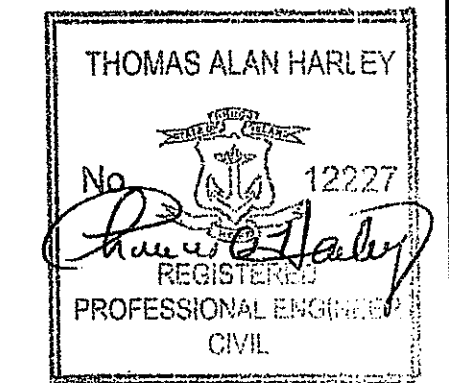
- BORINGS B-3 AND B-5, AND TEST PITS TP-1 AND TP-2, CONDUCTED IN 2005 DO NOT APPEAR WITHIN LIMITS OF PLAN. FOR LOCATIONS SEE "HORTON FARM BRIDGE - SUBSURFACE EXPLORATION PLAN" DEVELOPED BY PAUL ALDINGER AND ASSOC., INC., DATED MAY 2005, AS APPEARS IN HORTON FARM BRIDGE GEOTECHNICAL REPORT DATED FEBRUARY 2012.

LEGEND:

ELECTRIC DUCT	---	E
SANITARY SEWER	---	S
DRAINAGE	---	D
WATER, MAIN	---	W
GAS, MAIN	---	G
OVERHEAD WIRE	---	OHW
CATCH BASIN	□	CB
DRAINAGE MANHOLE	○	DMH
SEWER MANHOLE	○	SMH
UTILITY POLE	○	UP
WATER GATE	○	WG
DIRECTION OF TRAVEL	→	
BORING (2005)	⊕B-X	
BORING (1979)	⊕B-X	
TEST PITS (2005)	⊕TP-X	

ENVIRONMENTAL MANAGEMENT
OFFICE OF
FRESHWATER WETLANDS PROGRAM
PERMIT PLAN APPLICATION NO. 17085
JAN 23 2016
LETTER OF SAME DATE

NOV - 9 2011



Louis Berger
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REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

IMPROVEMENTS TO I-195
ABC BRIDGE NO. 472 OVER I-195
SUPERSTRUCTURE REPLACEMENT
EAST PROVIDENCE, RHODE ISLAND

PERMIT PLANS
GENERAL PLAN AND ELEVATION

CHECKED BY PNF DATE 11/7/17 SCALE AS NOTED
GENERAL PLAN.DWG

