

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



LIST OF DRAWINGS

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| Pier Repairs | 9 |
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SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Seventh Edition 2014 with 2016 Interim Revisions.

TRAFFIC DATA

| | |
|-------------------------------------|-----|
| Current (2018) AADT | 140 |
| Future (2038) AADT | 170 |
| DHV - % of AADT | 16 |
| Design Hour Volume | 27 |
| Heavy Trucks (% of AADT) | 27 |
| Heavy Trucks (% of DHV) | 27 |
| Directional Distribution (% of DHV) | 50 |
| 18 kip Equivalent P 2.0 | 39 |
| 18 kip Equivalent P 2.5 | 37 |
| Posted Speed Limit (mph) | 45 |

HYDROLOGIC DATA

| | |
|----------------------------|------------|
| Drainage Area | 493 sq mi |
| Design Discharge (Q1.1) | 4,438 cfs |
| Design Discharge (Q25) | 13,978 cfs |
| Design Discharge (Q50) | 15,785 cfs |
| Check Discharge (Q100) | 17,628 cfs |
| Headwater Elevation (Q1.1) | 627.8 ft |
| Headwater Elevation (Q25) | 631.1 ft |
| Headwater Elevation (Q50) | 631.9 ft |
| Headwater Elevation (Q100) | 632.6 ft |
| Discharge Velocity (Q1.1) | 9.9 fps |
| Discharge Velocity (Q25) | 16.7 cfs |
| Discharge Velocity (Q50) | 17.4fps |
| Discharge Velocity (Q100) | 18.1fps |

MATERIALS

| | |
|----------------------------|-----------------------------|
| Concrete: | |
| Structural Wearing Surface | Class "LP" |
| All Other | Class "A" |
| Reinforcing Steel | ASTM A 615/A 615M, Grade 60 |

BASIC DESIGN STRESSES

| | |
|-------------------|------------------|
| Concrete | f 'c = 4,000 psi |
| Reinforcing Steel | fy = 60,000 psi |

TWP6 R8 PENOBSCOT COUNTY E. BRANCH PENOBSCOT RIVER BR. OVER E. BRANCH PENOBSCOT RIVER GRAND LAKE ROAD PROJECT LENGTH 0.04 mi. BRIDGE NO. 6042

UTILITIES

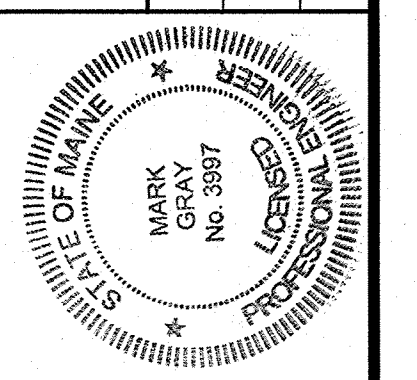
NONE

MAINTENANCE OF TRAFFIC

Maintain one lane of traffic using staged construction and yield signs.

| | |
|-------------------------|---|
| PROJECT LOCATION | JUST SOUTH OF MATAGAMON LAKE OUTLET Lat./Long. 46°08'02" N 68°47'38" W |
| PROGRAM AREA | Highway Bridges-Traditional |
| OUTLINE OF WORK | Replace Concrete Wearing Surface, Repair Curb & Deck, Replace Seal in Expansion Joint Unit over Pier, Rehabilitate both Abutments and Pier, Grout Bag Scour Repair, Replace Guard Rail Terminal Ends. |

| | | | |
|----------------|------------------------------|--------------------|----------|
| STATE OF MAINE | DEPARTMENT OF TRANSPORTATION | APPROVED | DATE |
| | | <i>[Signature]</i> | 12/28/17 |
| | | COMMISSIONER: | |
| | | CHIEF ENGINEER: | |



| | |
|--------------------|-------------|
| <i>[Signature]</i> | SIGNATURE |
| 3997 | P.E. NUMBER |
| 12/8/2017 | DATE |

| | |
|----------------|-------------------------|
| W. FRANKHAUSER | PROJECT INFORMATION |
| M. WIGHT | PROJECT MANAGER |
| M. GRAY | DESIGNER |
| | CONSULTANT |
| | PROJECT RESIDENT |
| | CONTRACTOR |
| | PROJECT COMPLETION DATE |

| |
|-------------------------------|
| TWP6 R8 |
| E. BRANCH PENOBSCOT RIVER BR. |
| TITLE SHEET |

| |
|--------------|
| SHEET NUMBER |
| 1 |
| OF 10 |

Filename: \\00\BRIDGE\MSTA\001_Title.dgn
 Division: BRIDGE
 Username: ormond.j.paradis
 Date: 12/18/2017

WIN 21755.00

| ESTIMATED QUANTITIES | | | |
|----------------------|---|----------|------|
| ITEM NO. | DESCRIPTION | QUANTITY | UNIT |
| 202.30 | REMOVING EXISTING CONCRETE WEARING SURFACE (27 CY) | 1 | LS |
| 403.208 | HOT MIX ASPHALT, 12.5MM NOMINAL MAX SIZE | 14 | T |
| 403.211 | HOT MIX ASPHALT, 9.5MM NOMINAL MAX SIZE (SHIMMING) | 5 | T |
| 403.213 | HOT MIX ASPHALT, 12.5MM NOMINAL MAX SIZE (BASE) | 20 | T |
| 409.15 | BITUMINOUS TACK COAT APPLIED | 6 | G |
| 502.248 | UNDERWATER GROUT BAGS | 7 | CY |
| 502.29 | STRUCTURAL CONCRETE WEARING SURFACE ON BRIDGES (27 CY) | 1 | LS |
| 502.291 | SAW CUT GROOVING (2847 SF) | 1 | LS |
| 503.12 | REINFORCING STEEL, FABRICATED AND DELIVERED | 150 | LB |
| 503.13 | REINFORCING STEEL, PLACING | 225 | LB |
| 511.07 | COFFERDAM: PIER UPSTREAM | 1 | LS |
| 511.07 | COFFERDAM: PIER DOWNSTREAM | 1 | LS |
| 514.06 | CURING BOX FOR CONCRETE CYLINDERS | 1 | EA |
| 515.21 | PROTECTIVE COATING FOR CONCRETE SURFACES (500 SY) | 1 | LS |
| 518.50 | REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL | 150 | SF |
| 518.51 | REPAIR OF UPWARD FACING SURFACES - BELOW REINF. STL. < 8" | 75 | SF |
| 518.60 | REPAIR OF VERTICAL SURFACES < 8" | 194 | SF |
| 518.61 | REPAIR OF VERTICAL SURFACES >= 8" | 4 | CY |
| 520.241 | BRIDGE JOINT MODIFICATION - TYPE 1 | 1 | EA |
| 526.301 | TEMPORARY CONCRETE BARRIER TYPE 1 (140 LF) | 1 | LS |
| 527.34 | WORK ZONE CRASH CUSHIONS | 2 | UN |
| 606.265 | TERMINAL END - SINGLE RAIL - GALVANIZED STEEL | 4 | EA |
| 606.353 | REFLECTORIZED FLEXIBLE GUARDRAIL MARKER | 4 | EA |
| 615.07 | LOAM | 6 | CY |
| 618.141 | SEEDING METHOD NUMBER 3 | 1 | UN |
| 619.12 | MULCH | 1 | UN |
| 619.14 | EROSION CONTROL MIX | 12 | CY |
| 627.51 | 6" TEMPORARY PAVEMENT TAPE, YELLOW OR WHITE | 50 | LF |
| 627.55 | 12" TEMPORARY PAVEMENT TAPE, WHITE | 50 | LF |
| 627.57 | 12" REMOVABLE BLACK LINE MASKING TAPE | 50 | LF |
| 627.811 | TEMP BI-DIRECTIONAL YELLOW DELINEATORS | 50 | EA |
| 629.05 | HAND LABOR, STRAIGHT TIME | 10 | HR |
| 631.12 | ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR) | 10 | HR |
| 631.172 | TRUCK LARGE (INCLUDING OPERATOR) | 10 | HR |
| 639.19 | FIELD OFFICE TYPE B | 1 | LS |
| 652.312 | TYPE III BARRICADE | 2 | EA |
| 652.33 | DRUM | 30 | EA |
| 652.34 | CONE | 30 | EA |
| 652.35 | CONSTRUCTION SIGNS | 100 | SF |
| 652.361 | MAINTAINANCE OF TRAFFIC CONTROL DEVICES (30 CD) | 1 | LS |
| 652.38 | FLAGGER | 60 | HR |
| 656.75 | TEMPORARY EROSION AND WATER POLLUTION CONTROL | 1 | LS |
| 659.10 | MOBILIZATION | 1 | LS |

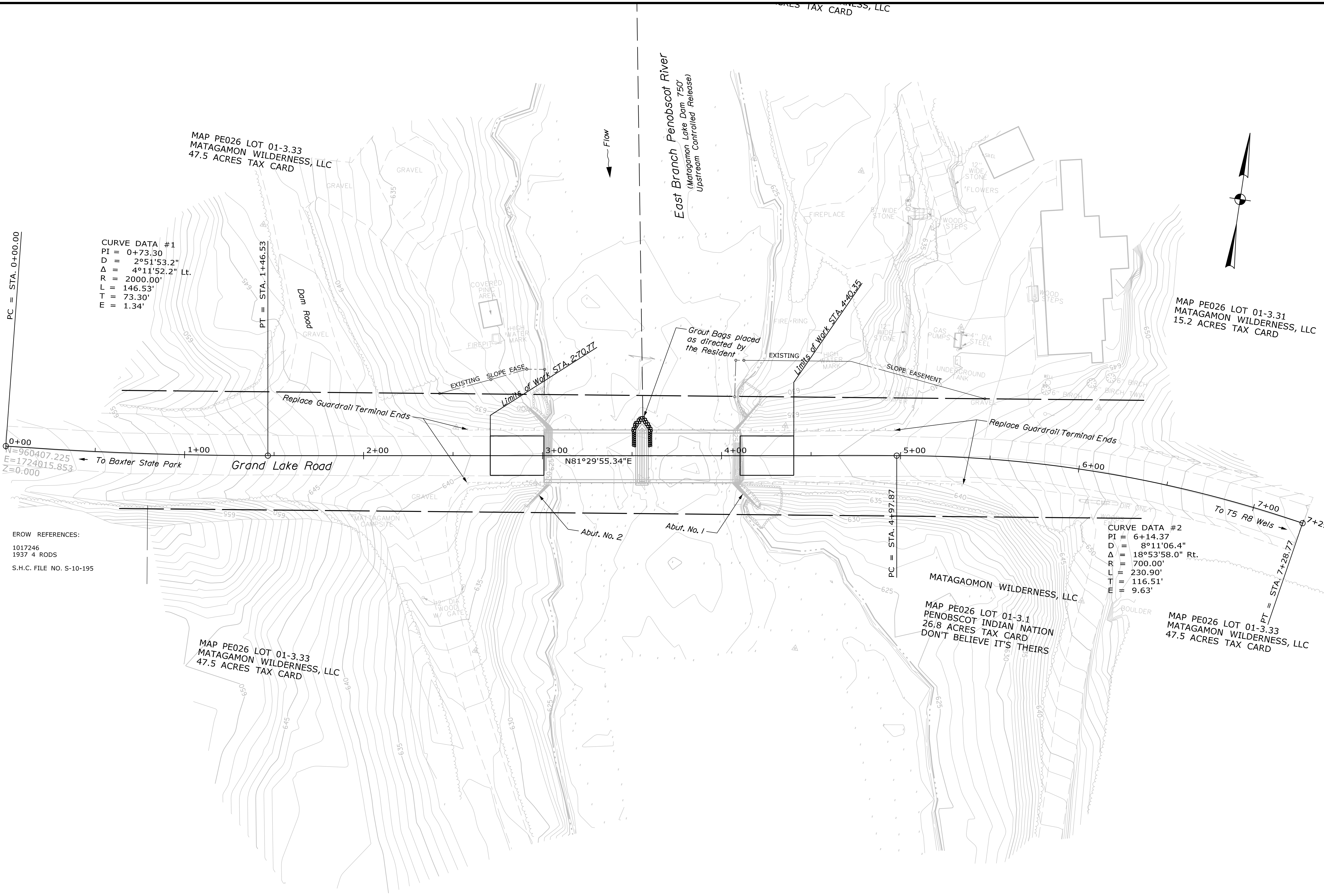
GENERAL CONSTRUCTION NOTES

1. Payment for equipment, labor and materials required to access the work, as well as re-establish original ground, will be considered incidental to related Contract items..
 2. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident. This work incidental to other items.
 3. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.14, Erosion Control Mix.
 4. Protective Coating for Concrete Surfaces shall be applied to the following areas:

All exposed surfaces of concrete curbs, Fascias down to the drip notch, Concrete wearing surfaces. Both south wing walls. All repaired areas extended 12" in all directions.
 5. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>.
 6. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.
 7. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.
 8. The bridge deck evaluation report of the existing bridge may be accessed at the MaineDOT web address. The report contains visual inspection information and deck core data of the bridge. There is no assurance that the information or data is a true representation of the conditions of the entire deck.
 9. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:
 - a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
 - b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
 - c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.
 10. Any necessary cleaning of existing pavement prior to paving or milling shall be incidental to related Contract pay items.
11. Prior to paving, existing subbase gravel adjacent to abutments and under proposed sections to be paved shall be augmented as necessary with Aggregate for base, Type A subsection 703.06. Fine grading and adjusting the surface to grade in preparation for paving by either adding or removing material and disposing of any spoil will not be paid for directly. Payment will be considered incidental to related Contract items.

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| STATE OF MAINE | | DEPARTMENT OF TRANSPORTATION | | STP-2175(500) | | WIN | | BRIDGE NO. 8042 | | BRIDGE PLANS | |
| E. BRANCH PENOBSCOT RIVER BR. | | E. BRANCH PENOBSCOT RIVER | | PENOBSCOT COUNTY | | ESTIMATED QUANTITIES & | | GENERAL CONSTRUCTION NOTES | | SHEET NUMBER | |
| TWP6 R8 | | | | | | | | | | 2 | |
| | | | | | | | | | | OF 10 | |

| PROJ. MANAGER | M. WIGHT | DATE | BY | DATE |
|------------------|------------|----------|------------|----------|
| DESIGN-DETAILED | M. GRAY | DEC 2017 | J. LEAVITT | DEC 2017 |
| CHECKED-REVIEWED | M. POULIN | DEC 2017 | M. WIGHT | DEC 2017 |
| DESIGNS-DETAILED | A. PARADIS | DEC 2017 | A. PARADIS | DEC 2017 |
| REVISIONS 1 | | | | |
| REVISIONS 2 | | | | |
| REVISIONS 3 | | | | |
| REVISIONS 4 | | | | |
| FIELD CHANGES | | | | |



PC = STA. 0+00.00
 PT = STA. 1+46.53

CURVE DATA #1
 PI = 0+73.30
 D = 2°51'53.2" Lt.
 Δ = 4°11'52.2"
 R = 2000.00'
 L = 146.53'
 T = 73.30'
 E = 1.34'

0+00
 N=960407.225
 E=1724015.853
 Z=0.000

EROW REFERENCES:
 1017246
 1937 4 RODS
 S.H.C. FILE NO. 5-10-195

MAP PE026 LOT 01-3.33
 MATAGAMON WILDERNESS, LLC
 47.5 ACRES TAX CARD

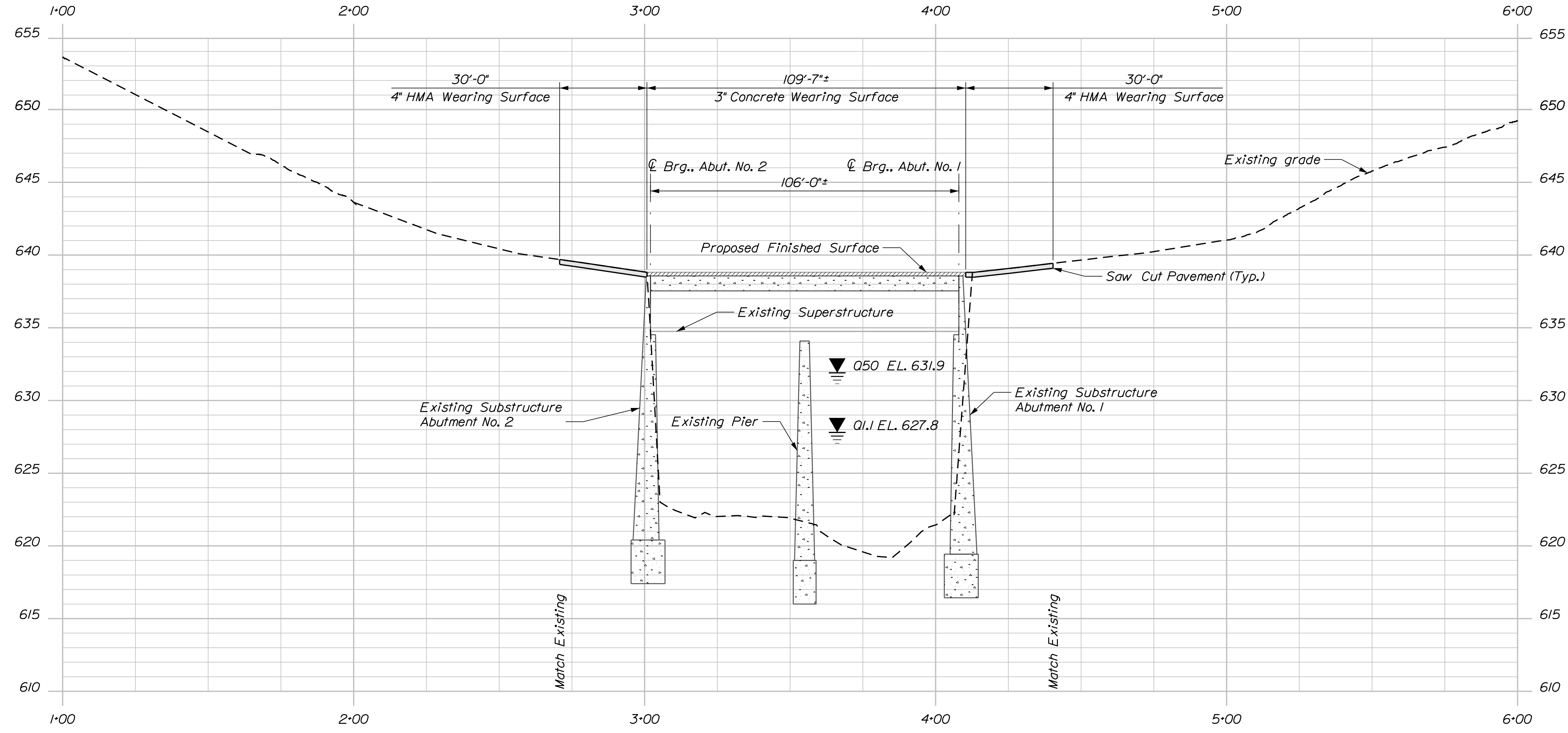
MATAGAMON WILDERNESS, LLC
 MAP PE026 LOT 01-3.1
 PENOBSCOT INDIAN NATION
 26.8 ACRES TAX CARD
 DON'T BELIEVE IT'S THEIRS

MAP PE026 LOT 01-3.33
 MATAGAMON WILDERNESS, LLC
 47.5 ACRES TAX CARD

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|-------------------------------|--|------------------------------|--|------------------|--|
| STATE OF MAINE | | DEPARTMENT OF TRANSPORTATION | | STP-2175(500) | |
| E. BRANCH PENOBSCOT RIVER BR. | | E. BRANCH PENOBSCOT RIVER | | PENOBSCOT COUNTY | |
| TWP6 R8 | | PLAN | | SHEET NUMBER | |
| 3 | | OF 10 | | BRIDGE NO. 8042 | |
| WIN | | 21755.00 | | BRIDGE PLANS | |

| PROJ. MGR. | DATE | BY | DATE |
|------------------|----------|------------|----------|
| DESIGN-DETAILED | DEC 2017 | J. LEAVITT | DEC 2017 |
| CHECKED-REVIEWED | DEC 2017 | M. WIGHT | DEC 2017 |
| DESIGNS-DETAILED | | M. POULIN | |
| DESIGNS-DETAILED | | A. PARADIS | |

| REVISIONS | P.E. NUMBER | DATE |
|---------------|-------------|------|
| REVISIONS 1 | | |
| REVISIONS 2 | | |
| REVISIONS 3 | | |
| REVISIONS 4 | | |
| FIELD CHANGES | | |



PROFILE (LOOKING NORTH UPSTREAM)
(Note: Grout Bags not shown)

NOTE:

Refer to Hydrology Report for estimation of water elevation for various dam release flow rates in summer months.

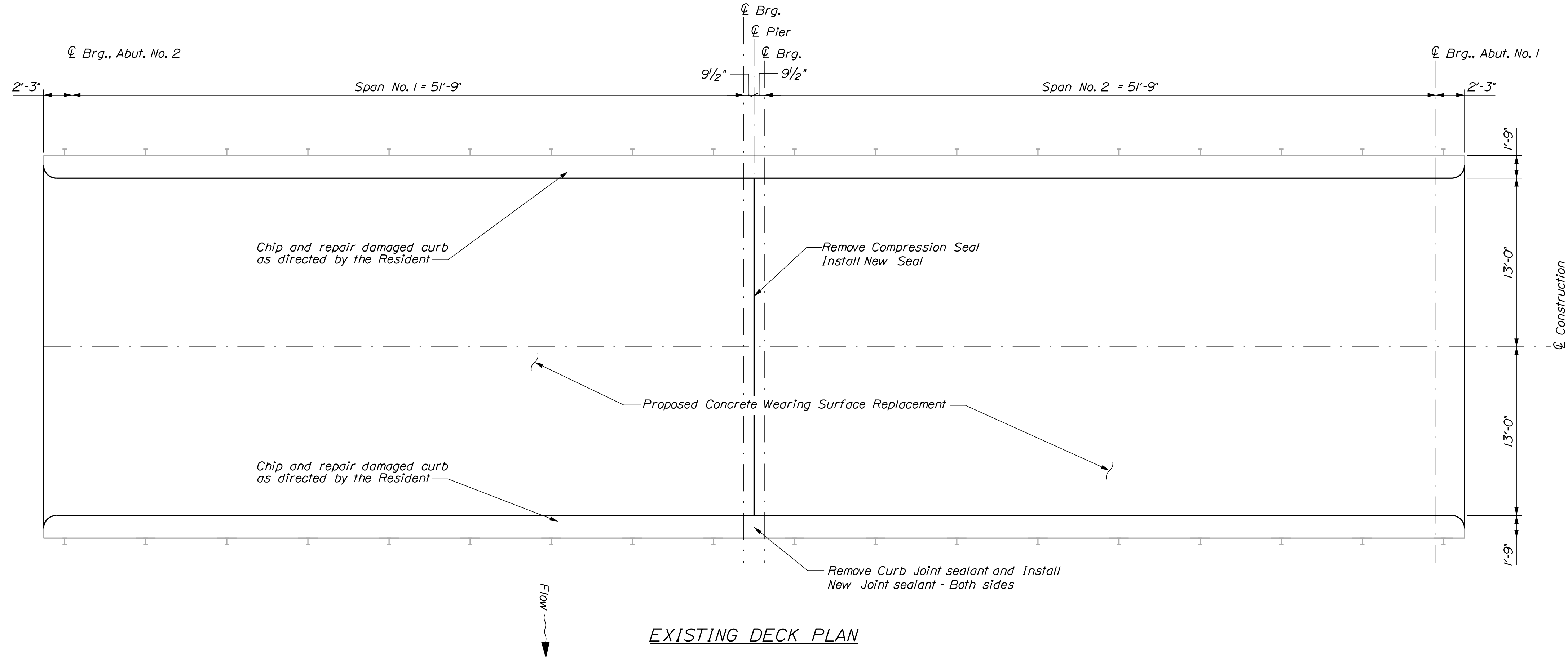
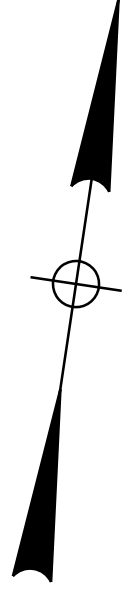
STATE OF MAINE
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STP-2175(500)
BRIDGE NO. 6042
WIN
21755.00
BRIDGE PLANS

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| DESIGN-DETAILED | M. GRAY | DEC 2017 |
| CHECKED-REVIEWED | M. WIGHT | DEC 2017 |
| DESIGN-DETAILED | M. POULIN | DEC 2017 |
| DESIGN-DETAILED | A. PARADIS | DEC 2017 |
| REVISIONS 1 | | |
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| REVISIONS 4 | | |
| FIELD CHANGES | | |

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| PROJ. MANAGER | BY | DATE |
| | J. LEVITT | DEC 2017 |
| | M. WIGHT | DEC 2017 |
| | A. PARADIS | DEC 2017 |
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E. BRANCH PENOBSCOT RIVER BR.
E. BRANCH PENOBSCOT RIVER
TWP6 R8
PENOBSCOT COUNTY
PROFILE

SHEET NUMBER
4
OF 10



SHEET NUMBER
5
OF 10

E. BRANCH PENOBSCOT RIVER BR.
E. BRANCH PENOBSCOT RIVER
TWP6 R8
PENOBSCOT COUNTY
SUPERSTRUCTURE PLAN

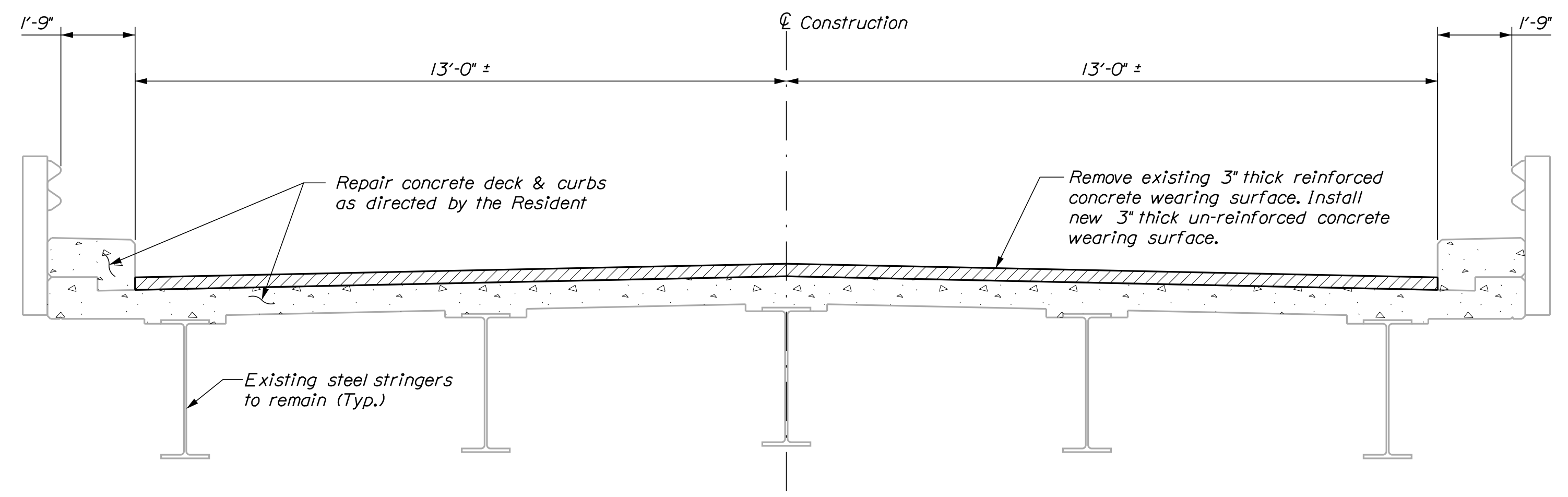
| PROJ. MANAGER | M. WIGHT | BY | DATE |
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| DESIGN-DETAILED | M. GRAY | J. LEVITT | DEC 2017 |
| CHECKED-REVIEWED | M. POULIN | M. WIGHT | DEC 2017 |
| DESIGN-DETAILED | | A. PARADIS | DEC 2017 |
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| FIELD CHANGES | | | |

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2175(500)

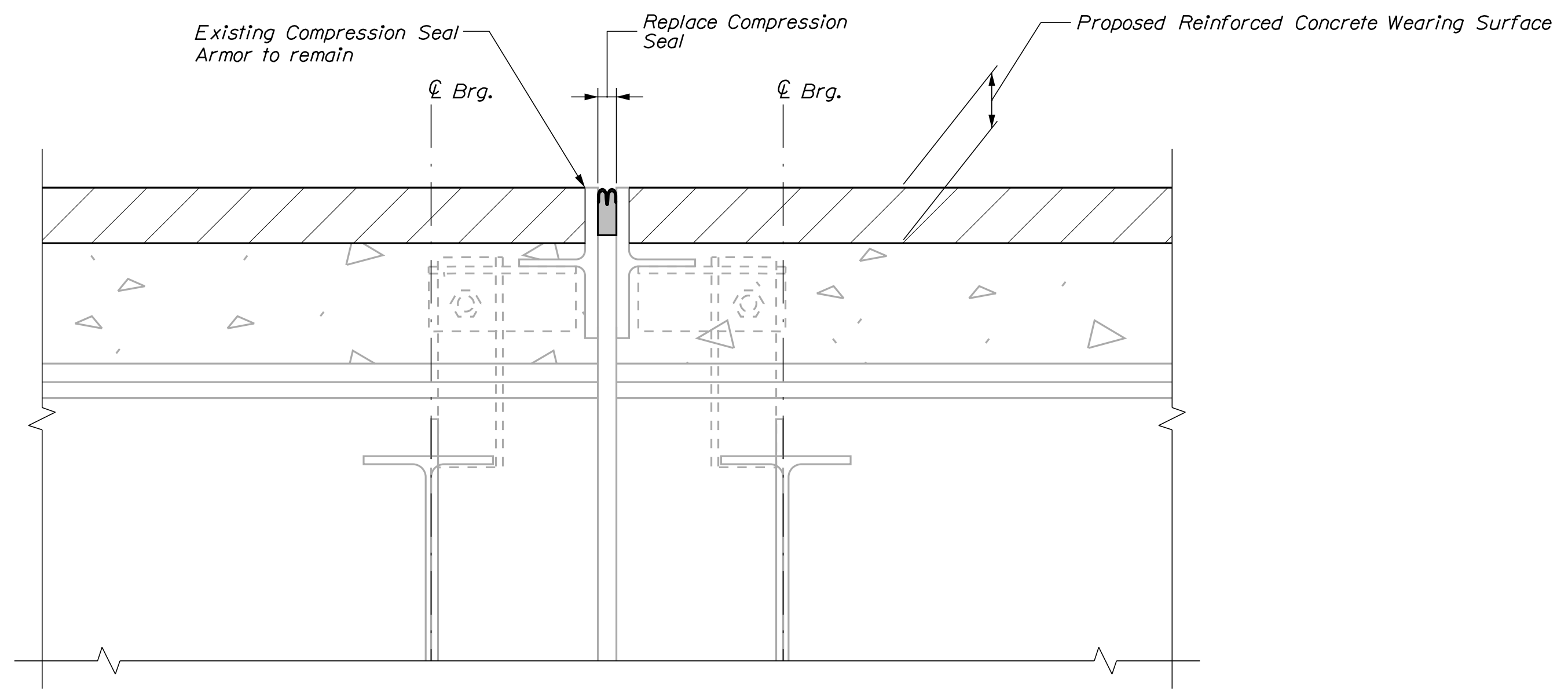
BRIDGE NO. 6042
WIN
21755.00
BRIDGE PLANS

DECK REPAIR AND JOINT MODIFICATION NOTES

1. The seal to be furnished shall have a minimum movement rating of 1".
2. If the depth of deteriorated concrete extends to reinforcing bars, remove concrete to a minimum depth of 1" beyond reinforcing steel. If this is the case in the superstructure deck, Class LP concrete shall be used as the repair material.
3. Record drawings show existing wearing surface reinforced with one mat of #3 bars at 12" both ways.

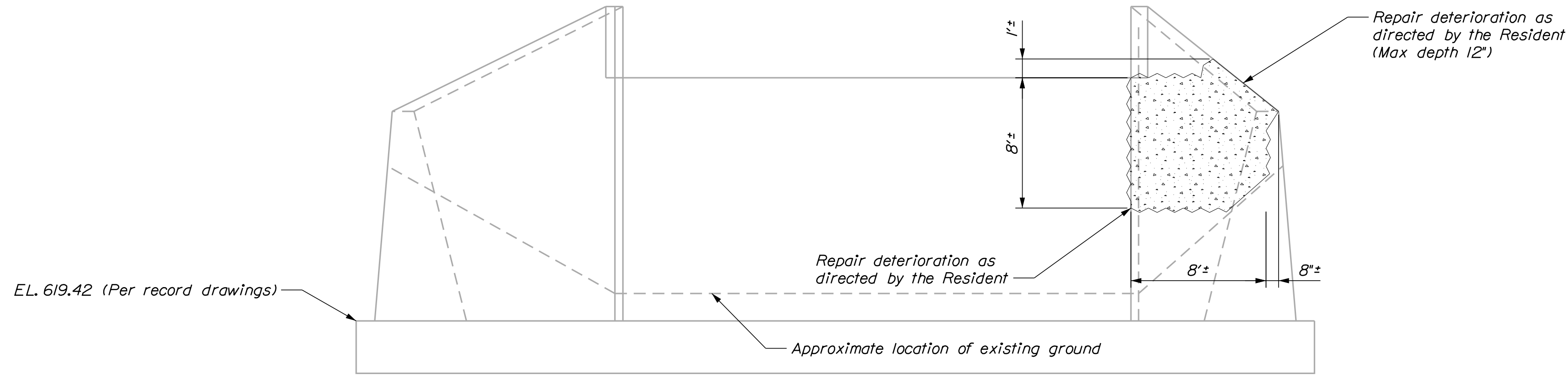


PROPOSED TRANSVERSE SECTION



PROPOSED COMPRESSION SEAL DETAIL

| | | | | | | | | | |
|-------------------------------|--|------------------------------|--|------------------|--|------------------------|--|--------------|--|
| STATE OF MAINE | | DEPARTMENT OF TRANSPORTATION | | STP-2175(500) | | BRIDGE NO. 6042 | | BRIDGE PLANS | |
| E. BRANCH PENOBSCOT RIVER BR. | | E. BRANCH PENOBSCOT RIVER | | PENOBSCOT COUNTY | | SUPERSTRUCTURE SECTION | | SHEET NUMBER | |
| TWP6 R8 | | REVISIONS 1 | | REVISIONS 2 | | REVISIONS 3 | | REVISIONS 4 | |
| FIELD CHANGES | | BY | | DATE | | SIGNATURE | | DATE | |
| DESIGN-DETAILED | | M. GRAY | | DEC 2017 | | SIGNATURE | | DATE | |
| CHECKED-REVIEWED | | M. WIGHT | | DEC 2017 | | SIGNATURE | | DATE | |
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| DESIGN-DETAILED | | A. PARADIS | | DEC 2017 | | SIGNATURE | | DATE | |
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| DESIGN-DETAILED | | A. PARADIS | | DEC 2017 | | SIGNATURE | | DATE | |
| DESIGN-DETAILED | | | | | | | | | |



ELEVATION ABUTMENT NO. 1
(Looking East)

SHEET NUMBER

2

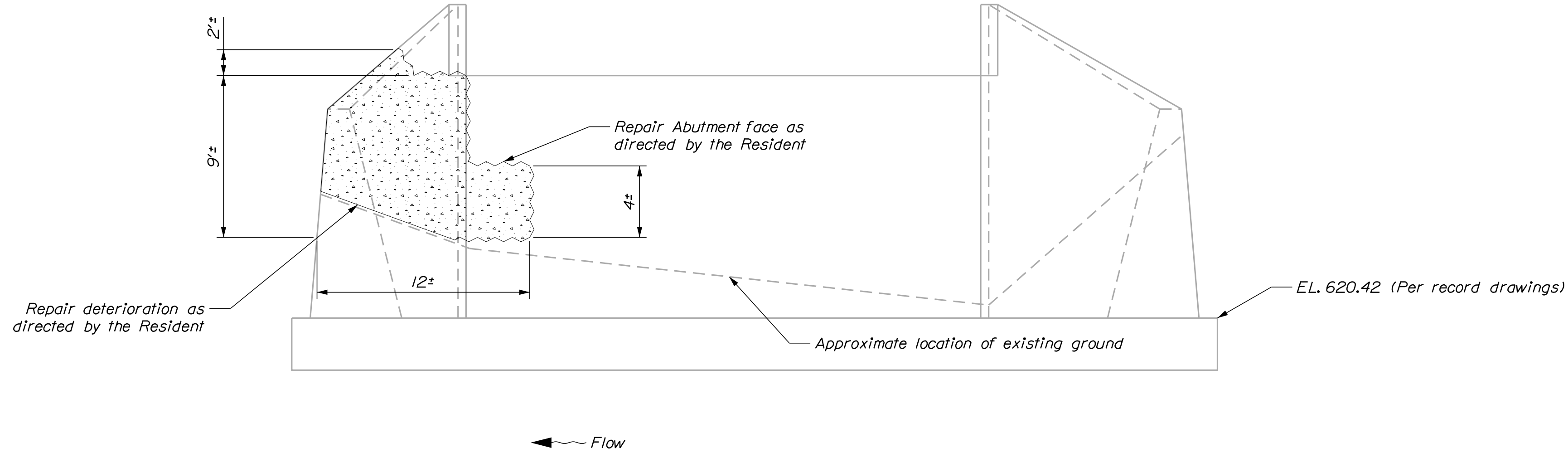
OF 10

E. BRANCH PENOBSCOT RIVER BR.
E. BRANCH PENOBSCOT RIVER
TWP6 R8 PENOBSCOT COUNTY
EAST ABUTMENT REPAIRS

| PROJ. MANAGER | M. WIGHT | BY | DATE |
|------------------|-----------|------------|-----------|
| DESIGN-DETAILED | M. GRAY | J. LEVITT | DEC. 2017 |
| CHECKED-REVIEWED | M. POULIN | M. WIGHT | DEC. 2017 |
| DESIGN-DETAILED | | A. PARADIS | DEC. 2017 |
| REVISIONS 1 | | | |
| REVISIONS 2 | | | |
| REVISIONS 3 | | | |
| REVISIONS 4 | | | |
| FIELD CHANGES | | | |

SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2175(500)
BRIDGE NO. 6042
WIN
21755.00
BRIDGE PLANS



ELEVATION ABUTMENT NO. 2
(Looking West)

SHEET NUMBER

08

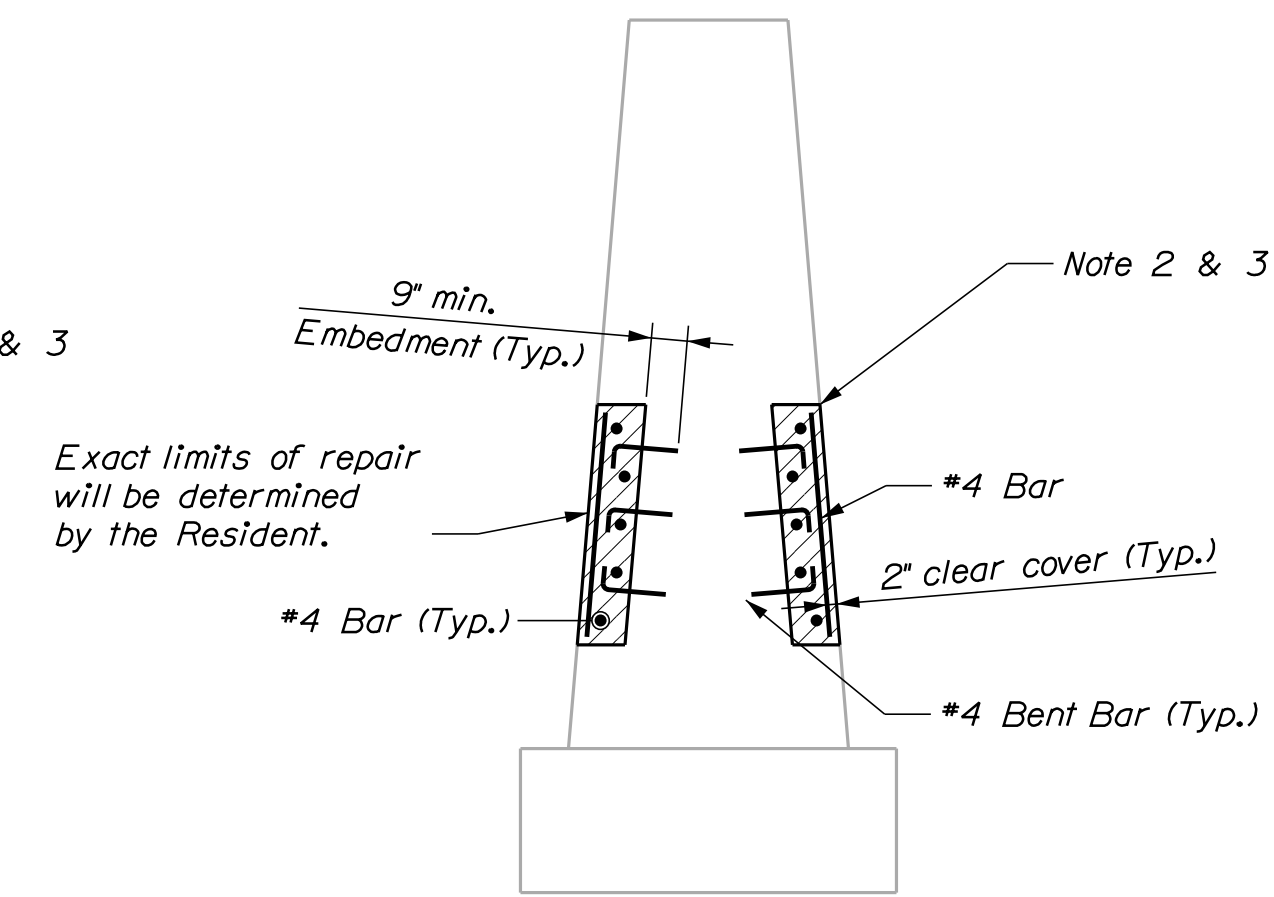
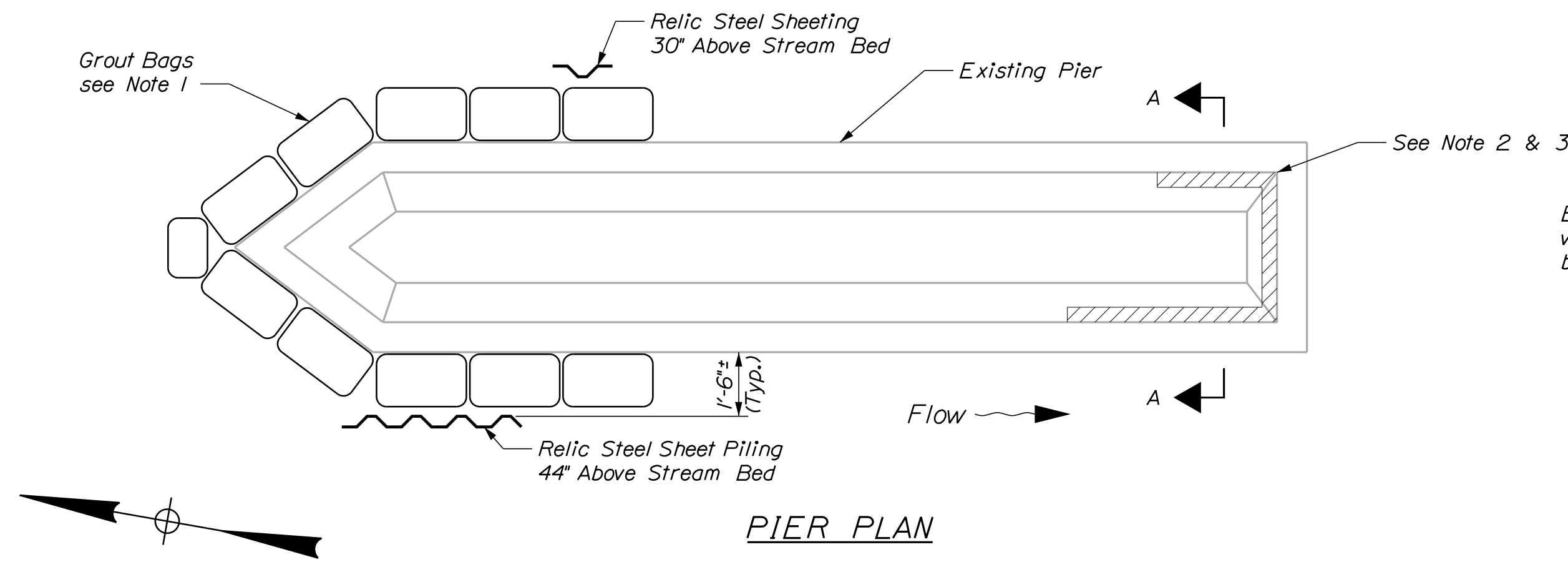
OF 10

E. BRANCH PENOBSCOT RIVER BR.
E. BRANCH PENOBSCOT RIVER
TWP6 R8 PENOBSCOT COUNTY
WEST ABUTMENT REPAIRS

| | | | |
|------------------|-----------|------------|----------|
| DESIGN-DETAILED | M. GRAY | J. LEAVITT | DEC 2017 |
| CHECKED-REVIEWED | M. POULIN | M. WIGHT | DEC 2017 |
| DESIGN-DETAILED | | A. PARADIS | DEC 2017 |
| REVISIONS 1 | | | |
| REVISIONS 2 | | | |
| REVISIONS 3 | | | |
| REVISIONS 4 | | | |
| FIELD CHANGES | | | |

PROJ. MANAGER
BY
DATE
SIGNATURE
P.E. NUMBER
DATE

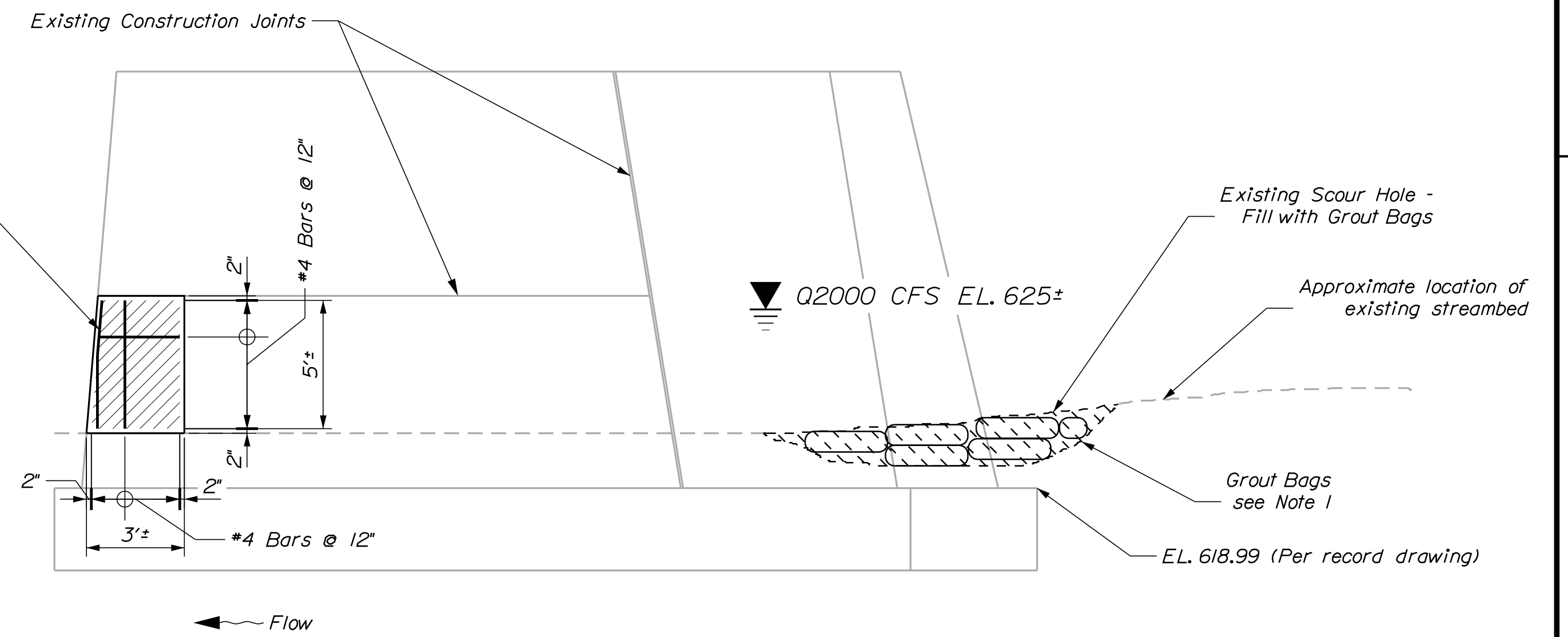
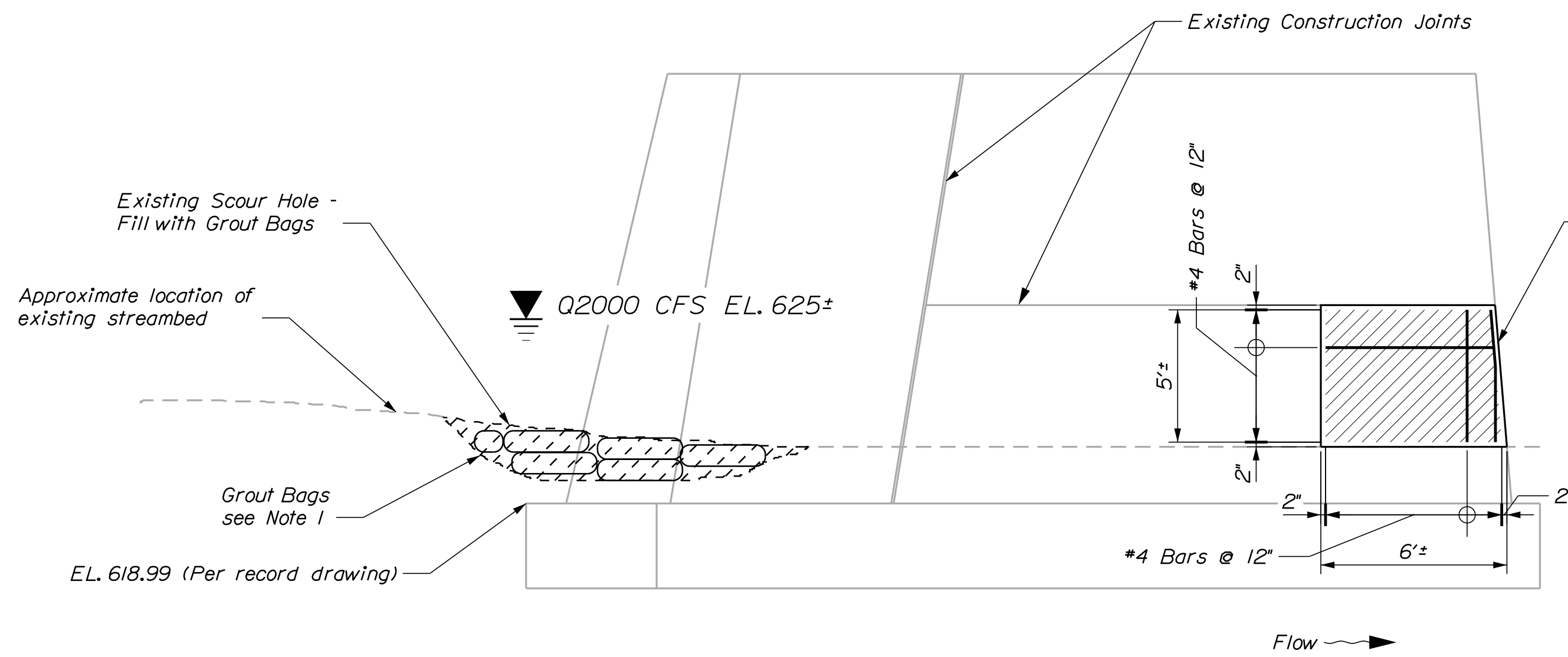
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2175(500)
BRIDGE NO. 6042
WIN
21755.00
BRIDGE PLANS



= New Concrete

PIER NOTES:

1. Place Grout bags in suspected scour hole on upstream end of pier and along sides as directed by resident.
2. Repair downstream end of pier by removing deteriorated concrete 5'-12" deep and install reinforced repair.
3. Repair unsound concrete in accordance with Specification Section 518.



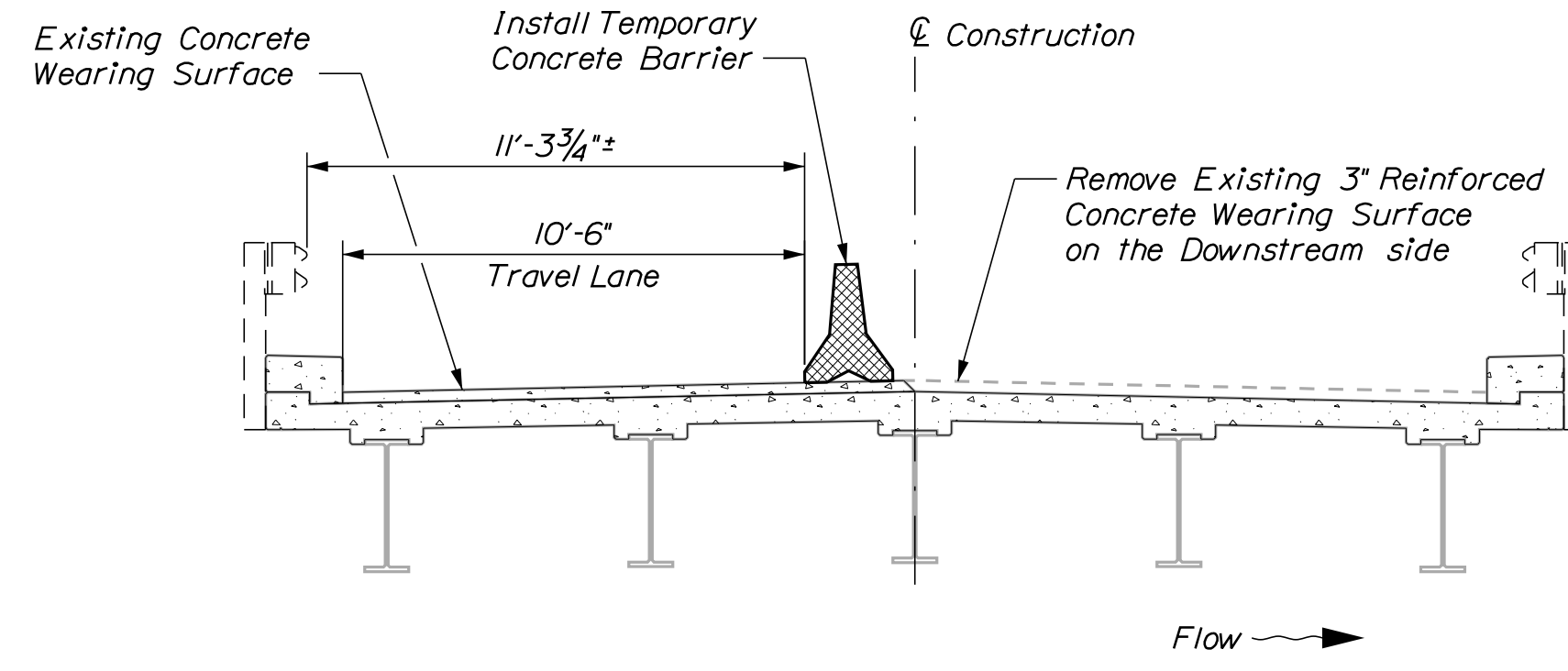
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2175(500)
WIN 21755.00
BRIDGE NO. 8042
BRIDGE PLANS

| | | | |
|------------------|------------|----------|-------------|
| DESIGN-DETAILED | M. GRAY | DEC 2017 | SIGNATURE |
| CHECKED-REVIEWED | M. WIGHT | DEC 2017 | P.E. NUMBER |
| DESIGN-DETAILED | A. PARADIS | DEC 2017 | DATE |
| REVISIONS 1 | | | |
| REVISIONS 2 | | | |
| REVISIONS 3 | | | |
| REVISIONS 4 | | | |
| FIELD CHANGES | | | |

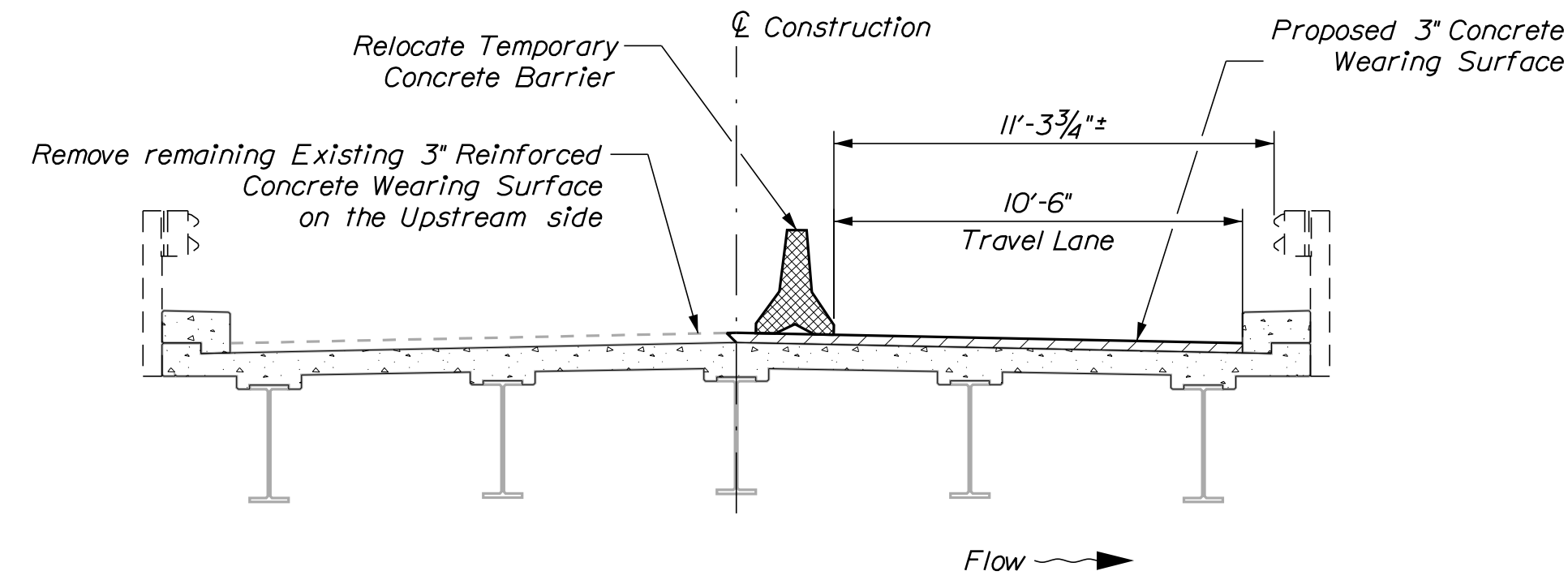
E. BRANCH PENOBSCOT RIVER BR.
E. BRANCH PENOBSCOT RIVER
TWP6 R8
PENOBSCOT COUNTY
PIER REPAIRS

SHEET NUMBER

9



Stage I



Stage II

STAGED CONSTRUCTION NOTES

Stage I: Install temporary concrete barrier while maintaining one 10'-6" min. wide travel lane of alternating traffic using yield signs. Remove the existing 3" concrete wearing surface on the downstream side and repair/patch existing superstructure deck and curb as directed by the Resident. Place proposed 3" concrete wearing surface once deck and curb repairs are complete.

Stage II: Relocate temporary concrete barrier while maintaining one 10'-6" min. wide travel lane of alternating traffic using yield signs. Remove the remaining existing 3" concrete wearing surface on the upstream side and repair/patch existing superstructure deck and curb as directed by the Resident. Place proposed 3" concrete wearing surface once deck and curb repairs are complete.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-2175(500)
WIN
21755.00
BRIDGE NO. 6042
BRIDGE PLANS

DESIGNER: J. LEVITT
CHECKED: M. WIGHT
DESIGNED: A. PARADIS
DATE: DEC 2017
SIGNATURE: _____
P.E. NUMBER: _____
DATE: _____

| PROJ. MANAGER | BY | DATE |
|-----------------------------|------------|----------|
| DESIGN-DETAILED: M. GRAY | J. LEVITT | DEC 2017 |
| CHECKED-REVIEWED: M. POULIN | M. WIGHT | DEC 2017 |
| DESIGN-DETAILED: | A. PARADIS | DEC 2017 |
| REVISIONS 1 | | |
| REVISIONS 2 | | |
| REVISIONS 3 | | |
| REVISIONS 4 | | |
| FIELD CHANGES | | |

E. BRANCH PENOBSCOT RIVER BR.
E. BRANCH PENOBSCOT RIVER
TWP6 R8
PENOBSCOT COUNTY
STAGED CONSTRUCTION

SHEET NUMBER
10
OF 10