

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## YORK YORK COUNTY CAPE NEDDICK BRIDGE OVER CAPE NEDDICK RIVER

U.S. ROUTE 1  
FEDERAL AID PROJECT NO. STP-2170(900)  
PROJECT LENGTH 0.145 mi.  
BRIDGE NO. 2127

### SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition 2017.

### DESIGN LOADING

Live Load ..... HL - 93 Modified for Strength 1

### TRAFFIC DATA

Current (2018) AADT ..... 14,180  
 Future (2038) AADT ..... 14,890  
 DHV - % of AADT ..... 11%  
 Design Hour Volume ..... 164  
 Heavy Trucks (% of AADT) ..... 4%  
 Heavy Trucks (% of DHV) ..... 3%  
 Directional Distribution (% of DHV) ..... 54%  
 18 kip Equivalent P 2.0 ..... 281  
 18 kip Equivalent P 2.5 ..... 268  
 Design Speed (mph) ..... 35

### HYDROLOGIC DATA

Drainage Area ..... 8.36 sq mi  
 Discharge (Q25) ..... 479.9 cfs  
 Design Discharge (Q50) ..... 549.6 cfs  
 Check Discharge (Q100) ..... 644.1 cfs  
 Headwater Elevation (Q1.1) ..... 15.03 ft  
 Headwater Elevation (Q25) ..... 16.81 ft  
 Headwater Elevation (Q50) ..... 17.02 ft  
 Headwater Elevation (Q100) ..... 17.28 ft  
 Discharge Velocity (Q1.1) ..... 1.57 fps  
 Discharge Velocity (Q25) ..... 4.42 fps  
 Discharge Velocity (Q50) ..... 4.70 fps  
 Discharge Velocity (Q100) ..... 5.05 fps

### MATERIALS

Concrete:  
 Precast ..... Class "P"  
 All Other ..... Class "A"  
 Reinforcing Steel ..... ASTM A 615, Grade 60

### BASIC DESIGN STRESSES

Concrete, Class "A" ..... f 'c = 4,000 psi  
 Concrete, Class "P" ..... f 'c = 6,000 psi  
 Reinforcing Steel ..... f y = 60,000 psi

### LIST OF DRAWINGS

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### UTILITIES

Central Maine Power  
 Consolidated Communications  
 Spectrum Cable  
 York Water District

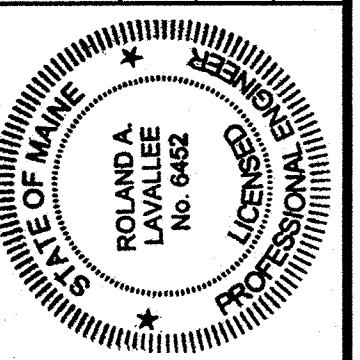
### MAINTENANCE OF TRAFFIC

Maintain alternating one-way traffic controlled by temporary traffic signals during phase 1 and maintain two lanes of traffic during phase 2.

<b>PROJECT LOCATION:</b>	US Route 1 over Cape Neddick River located 0.12 mile north of Route 1A, Latitude 43°11'33" N, Longitude 70°37'11" W
<b>PROGRAM AREA:</b>	Bridge
<b>OUTLINE OF WORK:</b>	Bridge Replacement with 500' of Approach Work



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
<i>[Signature]</i>	<i>[Signature]</i>	8/13/18
COMMISSIONER:	CHIEF ENGINEER:	
	<i>[Signature]</i>	B-S-18



<i>[Signature]</i>	SIGNATURE
6452	P.E. NUMBER
06/29/18	DATE

PROGRAM	PROJECT INFORMATION
BRIDGE	BRIDGE
PROJECT MANAGER	DEVAN EATON, P.E.
DESIGNER	TIMOTHY COLE, P.E.
CONSULTANT	HNTB
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

YORK  
CAPE NEDDICK BRIDGE  
TITLE SHEET

SHEET NUMBER	1
OF 29	

WIN 21709.00

STP-2170(900)X

Date: 6/29/2018

Username:

Division:

Filename: 01\_Title.dgn

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.19	Removing Existing Bridge (Concrete = 530 CY)	1	LS
202.202	Removing Pavement Surface	660	SY
203.20	Common Excavation	1,250	CY
203.24	Common Borrow	50	CY
304.10	Aggregate Subbase Course - Gravel	1,300	CY
403.2081	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Polymer Modified)	210	TON
403.209	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (Sidewalks, Drives, & Incidentals)	6	TON
403.213	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base course)	180	TON
403.2131	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate course, Polymer Modified)	150	TON
409.15	Bituminous Tack Coat, Applied	140	GAL
411.09	Untreated Aggregate Surface Course	2.5	CY
461.131	Temporary Pavement	32	TON
514.06	Curing Box for Concrete Cylinders	1	EA
524.301	Temporary Structural Support	1	LS
526.305	Temporary Concrete Barrier, Braced Type I (640 LF)	1	LS
527.34	Work Zone Crash Cushions	3	UN
531.51	Bridge Structure Detail-Build	1	LS
606.1301	3"W-Beam Guardrail - Mid-Way Splice (Steel Post, 8" Offset Blocks, Single Faced)	325	LF
606.1304	3"W-Beam Guardrail - Mid-Way Splice (Steel Post, 8" Offset Blocks, Over 15' Radius)	25	LF
606.1306	3"W-Beam Guardrail - Mid-Way Splice Tangent Terminal (3" Height)	3	EA
606.2591	Anchorage Assembly for Driveway Radius	1	EA
606.353	Reflectorized Flexible Guardrail Marker	7	EA
609.31	Curb Type 3	380	LF
610.08	Plain Riprap	10	CY
610.18	Stone Ditch Protection	40	CY
613.319	Erosion Control Blanket	32	SY
615.07	Loam	46	CY
618.14	Seeding Method Number 2	4	UN
619.12	Mulch	4	UN
619.14	Erosion Control Mix	46	CY
620.58	Erosion Control Geotextile	130	SY
627.733	4" White or Yellow Painted Pavement Marking Line	2,600	LF
627.77	Removing Existing Pavement Marking	1,010	SF
627.78	Temporary 4" Painted Pavement Marking Line, White or Yellow	3,450	LF
629.05	Hand Labor, Straight Time	35	HR
631.12	All Purpose Excavator (including operator)	10	HR
631.172	Truck-large (including operator)	10	HR
637.071	Dust Control	1	LS
639.19	Field Office, Type B	1	EA
643.72	Temporary Traffic Signal: Route 1	1	LS
652.312	Type III Barricades	2	EA
652.33	Drum	25	EA
652.34	Cone	25	EA
652.35	Construction Signs	250	SF
652.361	Maintenance of Traffic Control Devices (140 Calendar Days)	1	LS
652.38	Flaggers	240	HR
652.41	Portable Changeable Message Sign	2	EA
656.75	Temporary Soil Erosion and Water Pollution Control	1	LS
659.10	Mobilization	1	LS
822.3701	16" Ductile Iron Water Main, Install Only	200	LF
830.10	Water Main Bridge Crossing, Install Only	1	LS

STATE OF MAINE DEPARTMENT OF TRANSPORTATION <b>STP-2170900</b>	BRIDGE NO. 2127 <b>WIN</b> 21709.00 BRIDGE PLANS	YORK COUNTY CAPE NEDDICK BRIDGE CAPE NEDDICK RIVER YORK COUNTY <b>ESTIMATED QUANTITIES</b>	SHEET NUMBER <b>2</b> OF 29
SIGNATURE P.E. NUMBER DATE	BY DATE	DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED2 REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	6/18 6/18 - - - - - - - -



**GENERAL NOTES**

1. The clearing limits shall be 5' beyond and parallel to the construction slope lines or as shown on the plans unless otherwise authorized by the Resident. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract Items. Single tree and stump removal shall be considered clearing.

2. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

3. Place loam 2 inches deep on all new or reconstructed side slopes or as directed by the Resident.

4. A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of end beam guardrail.

5. Project info referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/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 Project Geotechnical Report titled: "Geotechnical Design Report Replacement of Cape Neddick Bridge," may be accessed at the MaineDOT web address.

8. Geotechnical information furnished or referred to in this plan set for the use of Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidder's or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between boring locations.

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 and Time.

10. The Contractor shall submit a Bridge Removal Plan to the Resident at least 10 business days prior to the start of demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to the removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Removal Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the demolition Plan will be considered incidental to the bridge removal pay item.

11. For easements, construction limits and right of way lines, refer to the Right of Way Map.

12. All embankment material, except as otherwise shown, placed below E1.15.03 shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.

13. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on the designers 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.

14. Location of utilities shown are approximate and should be verified in the field by the Contractor.

15. All waste material not used on the project shall be disposed of off the project in a waste area. The Contractor shall have a written agreement with the waste area owner, a copy of which shall be provided to the Department. All work associated with this shall be considered incidental to related Contract items.

16. No existing drainage shall be abandoned, removed or plugged without prior approval of the Resident. Existing drainage called to be abandoned, removed, or plugged shall be incidental to related Contract items.

17. Extended Use Erosion Control Blanket, seeded gutters, riprap downspouts and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed where it is apparent that runoff will cause continual erosion. Payment will be made under the appropriate Contract items.

18. Erosion Control Mix may be substituted in those area normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specification Section 619, Mulch. Payment will be made under Item No. 619.14, Erosion Control Mix.

19. Where called for on the Plans, where new pavement joins existing pavement, the existing pavement shall be sawcut along a smooth line to a neat, even, vertical joint, as directed by the Resident. Broken or raveled edges will not be permitted. All work necessary for the preparation of this joint will be considered incidental to the related Contract items.

20. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

21. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the Plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

22. Place a 24-in wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of riprap and behind the wingwalls.

23. Unpaved entrances shall be constructed with 14" Aggregate Subbase Course Gravel or 11" Aggregate Subbase Course Gravel and 3" Untreated Aggregate Surface Course unless otherwise noted on the Plans or directed by the Resident.

24. Residential paved entrances shall be constructed with: 2" hot mix asphalt and 12" Aggregate Subbase Course Gravel.

25. A 3' paved lip shall be placed at all gravel entrances unless otherwise noted on the Plans or directed by the Resident.

26. Existing signs within the Project Limits shall be removed and reset as directed by the Resident. Payment for removal and reinstallation of existing signs will be considered incidental to the Contract. No separate payment will be made.

27. Protective Coating for Concrete Surfaces shall be applied to the following areas:  
 On all concrete headwalls and concrete wall surfaces that are exposed and to limit lines, one foot beyond intersections of concrete surfaces with the ground.

28. Bidders and Contractors should anticipate encountering boulders and cobbles in the excavations for the proposed detailed-build structure and temporary structural support. Any additional work shall be incidental to the related Contract pay items.

Date: 7/20/2018

Username:

Division:

Filename: 003\_GenNotes.dgn

STATE OF MAINE DEPARTMENT OF TRANSPORTATION <b>STP-2170900</b>	BRIDGE NO. 2127 <b>WIN</b> 21709.00 BRIDGE PLANS	DATE 6/18 6/18	BY C. Helmick R. Harf	SIGNATURE P.E. NUMBER DATE	CAPE NEDDICK BRIDGE CAPE NEDDICK RIVER YORK COUNTY <b>GENERAL NOTES</b>	SHEET NUMBER <b>3</b> OF 29
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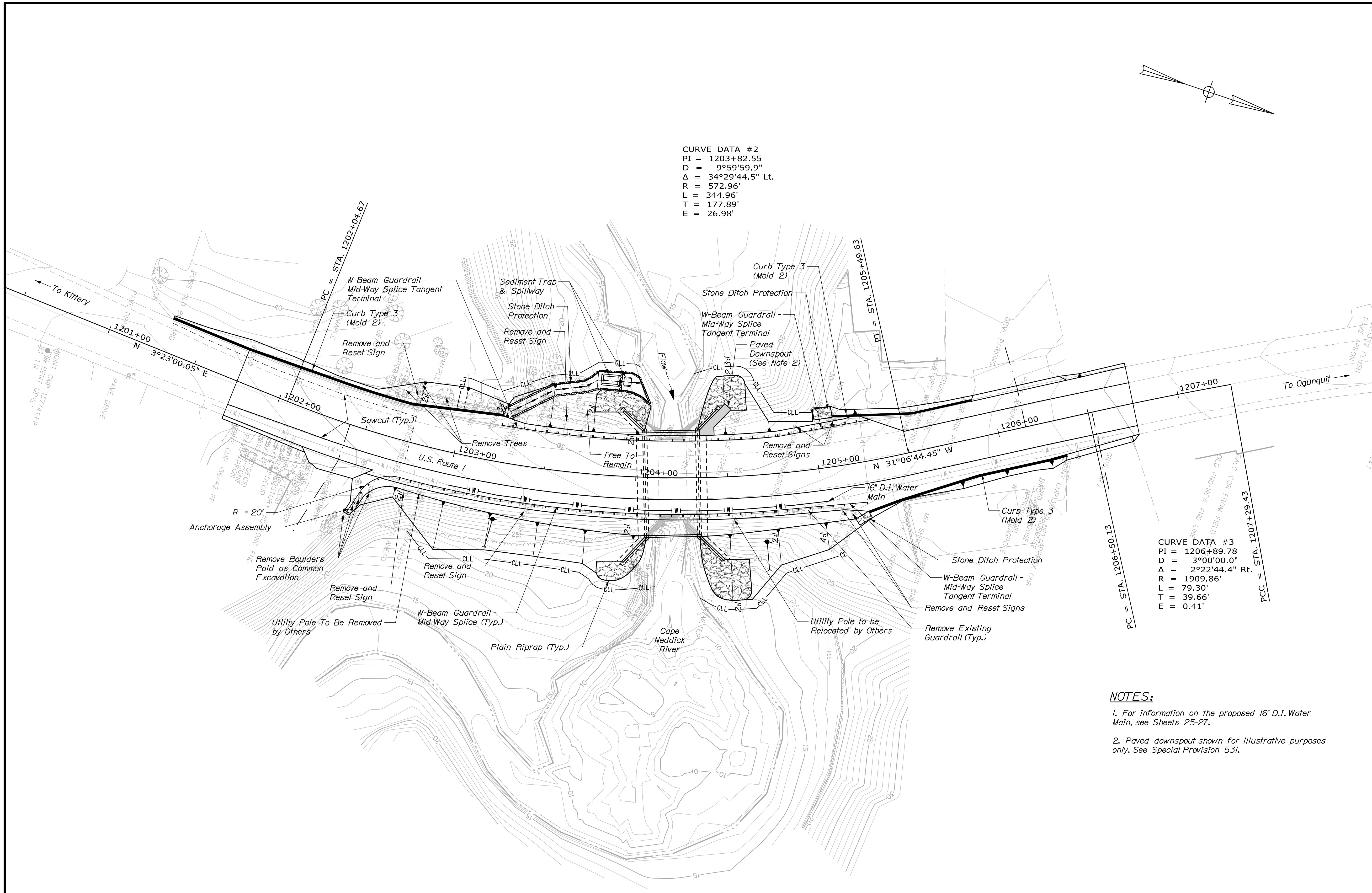


Date: 7/20/2018

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Division:

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**NOTES:**

1. For information on the proposed 16" D.I. Water Main, see Sheets 25-27.
2. Paved downspout shown for illustrative purposes only. See Special Provision 531.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2170900		BRIDGE NO. 2127		WIN		21709.00		BRIDGE PLANS	
CAPE NEDDICK BRIDGE		CAPE NEDDICK RIVER		YORK COUNTY		YORK		GENERAL PLAN		SHEET NUMBER		4	
PROJ. MANAGER	DEVON EATON	DESIGN-DETAILED	E. FARAGAS	CHECKED-REVIEWED	L. DRISCOLL	DESIGN-DETAILED	-	REVISIONS 1	-	REVISIONS 2	-	REVISIONS 3	-
BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE
C. HELMICK	6/18	R. HART	6/18										
SIGNATURE		SIGNATURE		P.E. NUMBER		DATE		DATE		DATE		DATE	





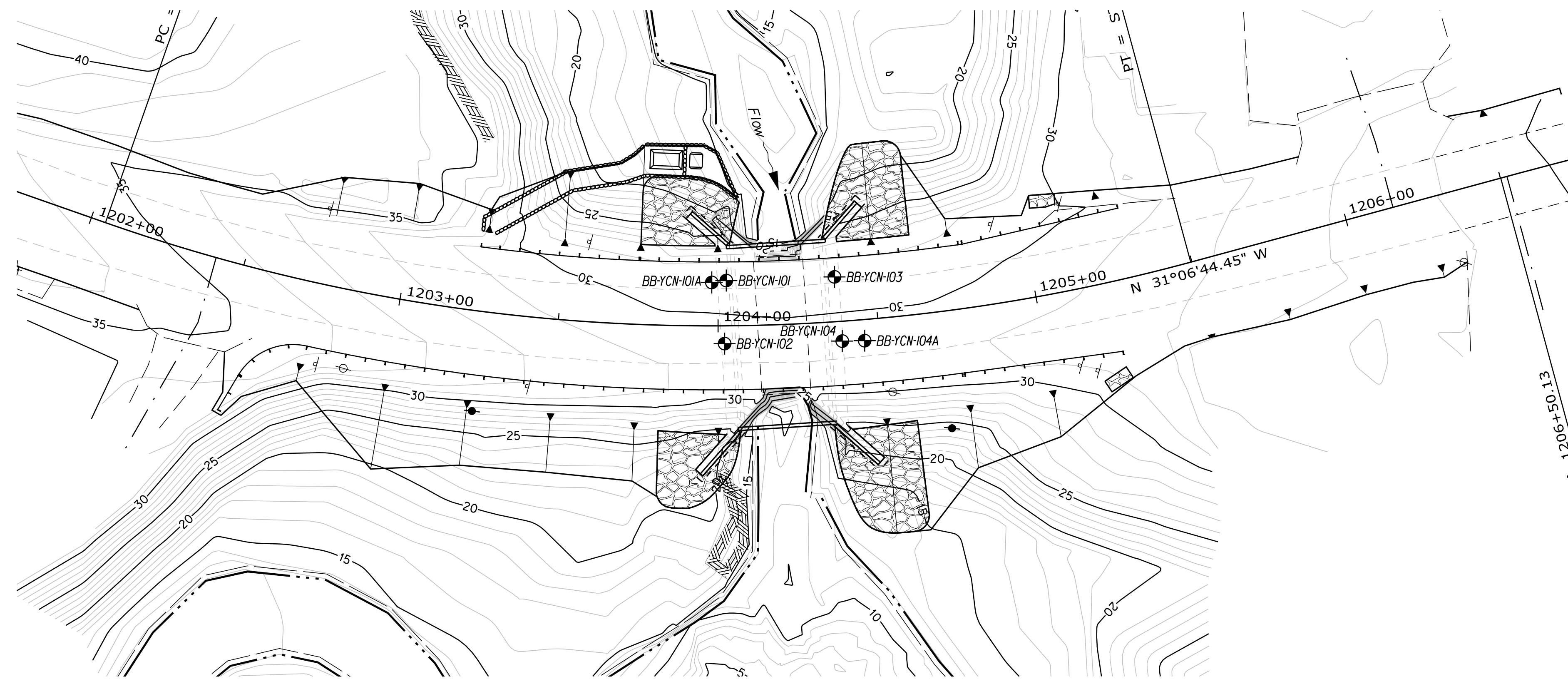
Date: 6/29/2018

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Division: HIGHWAY

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Username:



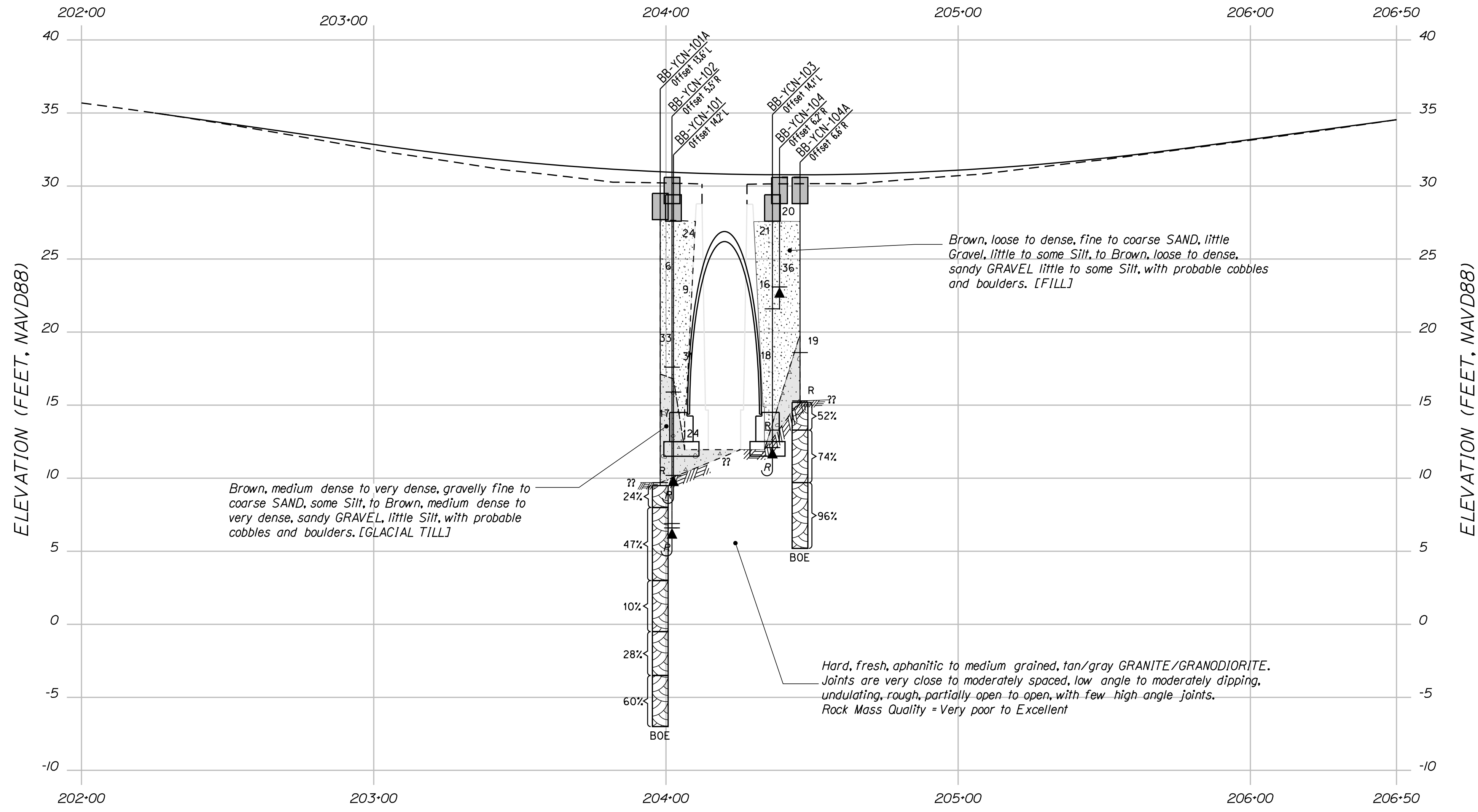
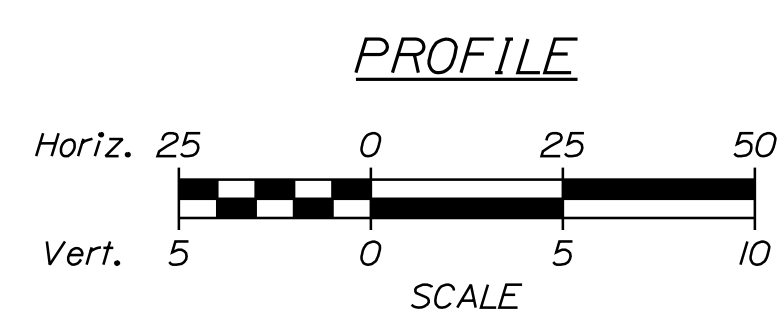
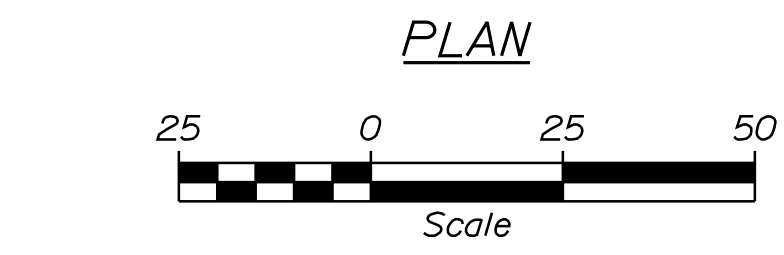
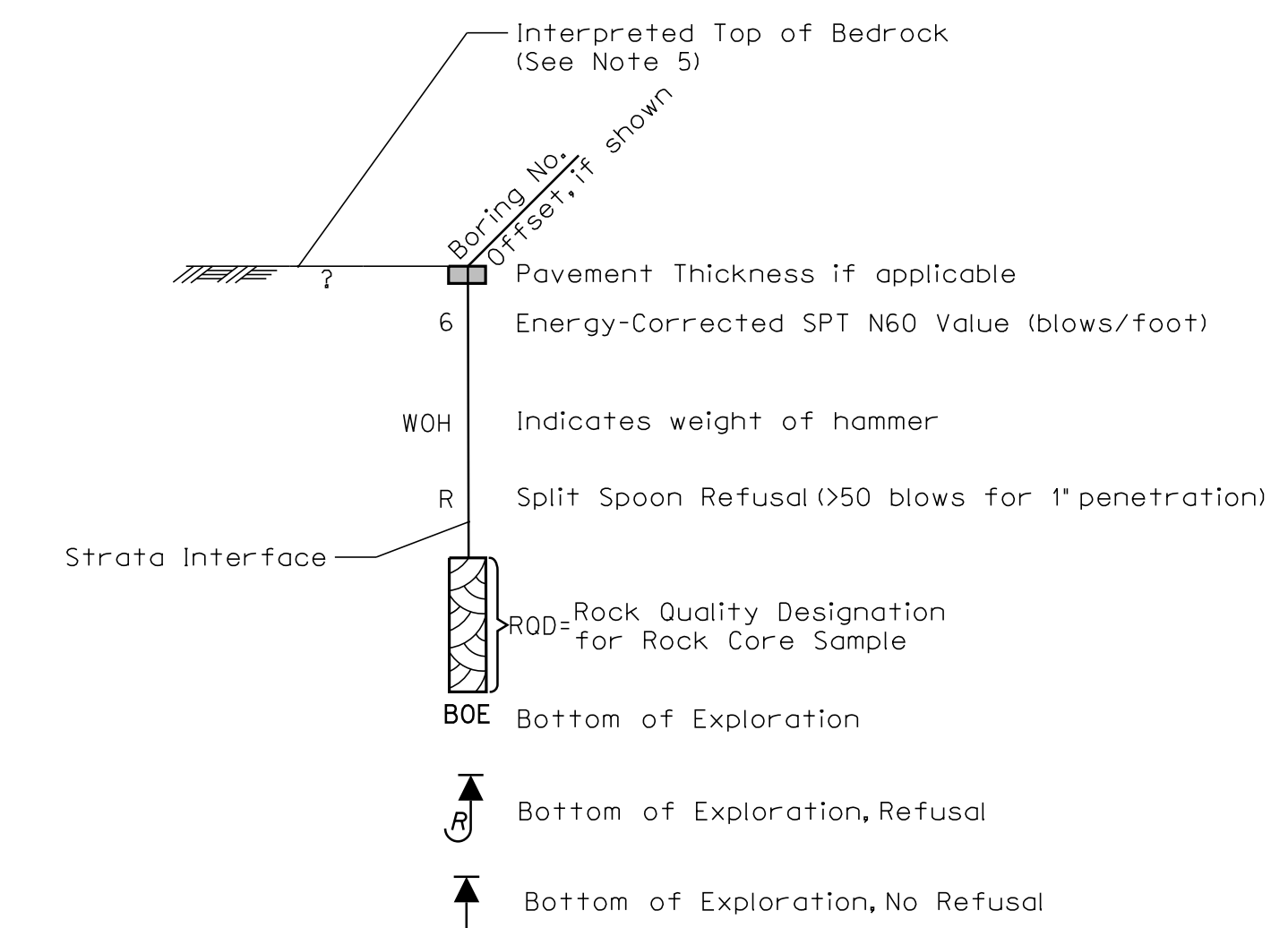
**NOTES**

- 1) Base map developed from electronic files provided by MaineDOT on March 15, 2017 (Files included BDPLAN.dgn, Contours.dgn, Points.dgn, RWPLAN.dgn, Text.dgn, topo.dgn and wetlands.dgn).
- 2) Profile developed from electronic files provided by HNTB on March 17, 2016 (Files included Profile.dgn and z\_Bridge Elevation.dgn).
- 3) The as-drilled locations of the test borings were surveyed by a MaineDOT survey crew and supplied to GZA except for BB-YCN-104 which was determined using offset from BB-YCN-104A.
- 4) BB-YCN-100 series bridge borings were performed by New England Boring Contractors and observed by GZA personnel between March 6 and March 8, 2017.
- 5) Interpreted top of rock considers general trend of ledge lines between borings BB-YCN-101A and -104A.
- 6) This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

**BORING LOCATION PLAN LEGEND**

BB-YCN-104 Location and designation of cased wash boring

**INTERPRETIVE SUBSURFACE PROFILE LEGEND**



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 2127  
WIN  
21709.00  
BRIDGE PLANS

PROJ. MANAGER	DATE	BY	DATE
XXXX	APR 2017	BMC	APR 2017
DESIGN-DETAILED		ARB	
CHECKED-REVIEWED			
DESIGNS-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

CAPE NEDDICK BRIDGE  
ROUTE 1 OVER CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
BORING LOCATION PLAN &  
INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

PREPARED BY:

6

OF 29

Maine Department of Transportation				Project: Cape Neddick Bridge				Boring No.: BB-YCN-101									
Soil/Rock Exploration Log				US CUSTOMARY UNITS				US CUSTOMARY UNITS									
Location: Route 1 Over Cape Neddick River, York, Maine				Location: Route 1 Over Cape Neddick River, York, Maine				Location: Route 1 Over Cape Neddick River, York, Maine									
PIN: 21709.00				PIN: 21709.00				PIN: 21709.00									
Driller:	New England Boring	Elevation (ft.):	29.4	Auger ID/OD:	4.25" / 4.00"	Operator:	Brad Enos	Date:	NAVD 88	Sampler:	Split Spoon	Logged By:	Blaine Cordell	Rig Type:	Truck - Mobile Drill	Hammer Wt./Fall:	140/30
Date Start/Finish:	3/7/17 - 3/7/17	Drilling Method:	SSA/Spin & Wash	Core Barrel:	NK2	Boring Location:	N30976.6, E91850.7	Casing ID/OD:	4" / 3"	Water Level:	13.5'	Hammer Efficiency Factor:	0.6	Hammer Type:	Automatic	Hydraulic	Rope & Cathead
<p>Disturbance: <input type="checkbox"/> Rock Core Sample <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p> <p>Notes: <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p> <p>Abbreviations: <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p>																	
<p>Visual Description and Remarks</p> <p>ASPHALT -</p> <p>CONCRETE -</p> <p>Brown, dry, medium dense, fine to coarse SAND, some SILT, with probable cobbles and boulders.</p> <p>-FLL- (GW-SM)</p> <p>Brown, dry, loose, fine to coarse SAND, some GRAVEL, some SILT, with probable cobbles and boulders.</p> <p>-FLL- (GM)</p> <p>Brown, moist, dense, fine to coarse SAND, some GRAVEL, some SILT, with probable cobbles and boulders.</p> <p>-FLL- (SM)</p> <p>Brown, wet, very dense, sandy GRAVEL, little SILT, with probable cobbles and boulders.</p> <p>-GLACIAL TLL- (GM)</p> <p>Bottom of Exploration at 19.20 feet below ground surface.</p>																	
<p>Remarks:</p> <p>1. Water level measured 15 minutes after completion of drilling.</p> <p>2. Cobbles and boulders throughout. RL based on casing and roller cone advancement.</p> <p>3. 4" casing met refusal at 19.2' bgs then 3" casing broke while setting up to core. Bottom 10.0' of casing remained in borehole.</p>																	

Maine Department of Transportation				Project: Cape Neddick Bridge				Boring No.: BB-YCN-101A									
Soil/Rock Exploration Log				US CUSTOMARY UNITS				US CUSTOMARY UNITS									
Location: Route 1 Over Cape Neddick River, York, Maine				Location: Route 1 Over Cape Neddick River, York, Maine				Location: Route 1 Over Cape Neddick River, York, Maine									
PIN: 21709.00				PIN: 21709.00				PIN: 21709.00									
Driller:	New England Boring	Elevation (ft.):	29.5	Auger ID/OD:	4.25" / 4.00"	Operator:	Brad Enos	Date:	NAVD 88	Sampler:	Split Spoon	Logged By:	Blaine Cordell	Rig Type:	Truck - Mobile Drill	Hammer Wt./Fall:	140/30
Date Start/Finish:	3/6/17 - 3/6/17	Drilling Method:	SSA/Spin & Wash	Core Barrel:	NK2	Boring Location:	N30972.4, E91852.5	Casing ID/OD:	3"	Water Level:	13.2'	Hammer Efficiency Factor:	0.6	Hammer Type:	Automatic	Hydraulic	Rope & Cathead
<p>Disturbance: <input type="checkbox"/> Rock Core Sample <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p> <p>Notes: <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p> <p>Abbreviations: <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p>																	
<p>Visual Description and Remarks</p> <p>Refer to Boring BB-YCN-101.</p> <p>Moved approximately 4.5' south of boring BB-YCN-101 and spun 3" casing to rock. No sampling in overburden materials.</p> <p>Spun casing to 19.8' bgs then roller cone to 20.0' bgs and set up to core.</p> <p>R1: Hard, fresh, fine to medium grained, gray/tan, GRANITE/GRANDIORITE. Joints are very close to close, low angle, rough, undulating, fresh to discolorated, partially open to open.</p> <p>Rock Mass Quality - Very Poor</p> <p>Rock Core Times (min/ft): 2.75, 2.5/6'</p> <p>Recovery - 94%</p> <p>R2: Hard, fresh, fine to medium grained, gray/tan, GRANITE/GRANDIORITE. Primary joints are very close to close, low angle, rough, undulating, fresh to discolorated, partially open to open.</p> <p>Rock Mass Quality - Poor</p> <p>Rock Core Times (min/ft): 3.5, 2.75, 3.5, 3.0, 3.75</p> <p>Recovery - 97%</p> <p>R3: Hard, fresh, granitic, gray, GRANODIORITE with calcic stringers. Joints are extremely close to close, low angle, rough, undulating, fresh to discolorated, partially open to open. Two high angle joints.</p> <p>Rock Mass Quality - Very Poor</p> <p>Rock Core Times (min/ft): 3.0, 3.25, 3.0, 2.75/6'</p> <p>Recovery - 100%</p> <p>R4: Hard, fresh, fine to medium grained, tan/gray, GRANITE/GRANDIORITE. Joints are very close to close, low angle, rough, undulating, fresh to discolorated, tight to open.</p> <p>Rock Mass Quality - Fair</p> <p>Rock Core Times (min/ft): 1.5, 2.5, 3.0</p> <p>Recovery - 100%</p> <p>R5: Hard, fresh, coarse grained, tan/gray, GRANITE/GRANDIORITE. Joints are very close to moderately spaced, low angle, rough, undulating, fresh to discolorated, partially open to open.</p> <p>Rock Mass Quality - Fair</p> <p>Rock Core Times (min/ft): 3.0, 2.75, 2.0, 1.25/6'</p> <p>Recovery - 100%</p> <p>Bottom of Exploration at 36.50 feet below ground surface.</p>																	
<p>Remarks:</p> <p>1. 3" casing to 20' bgs.</p> <p>2. Water level measured 20 minutes after completion of drilling.</p>																	

Maine Department of Transportation				Project: Cape Neddick Bridge				Boring No.: BB-YCN-102									
Soil/Rock Exploration Log				US CUSTOMARY UNITS				US CUSTOMARY UNITS									
Location: Route 1 Over Cape Neddick River, York, Maine				Location: Route 1 Over Cape Neddick River, York, Maine				Location: Route 1 Over Cape Neddick River, York, Maine									
PIN: 21709.00				PIN: 21709.00				PIN: 21709.00									
Driller:	New England Boring	Elevation (ft.):	30.6	Auger ID/OD:	4.25" / 4.00"	Operator:	Brad Enos	Date:	NAVD 88	Sampler:	Split Spoon	Logged By:	Blaine Cordell	Rig Type:	Truck - Mobile Drill	Hammer Wt./Fall:	140/30
Date Start/Finish:	3/6/17 - 3/6/17	Drilling Method:	SSA/Spin & Wash	Core Barrel:	NK2	Boring Location:	N30981.5, E91869.6	Casing ID/OD:	3"	Water Level:	15.5'	Hammer Efficiency Factor:	0.6	Hammer Type:	Automatic	Hydraulic	Rope & Cathead
<p>Disturbance: <input type="checkbox"/> Rock Core Sample <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p> <p>Notes: <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p> <p>Abbreviations: <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p>																	
<p>Visual Description and Remarks</p> <p>ASPHALT -</p> <p>CONCRETE -</p> <p>Brown/gray, dry, sandy GRAVEL, little SILT, with probable cobbles and boulders.</p> <p>-FLL- (GP-GM)</p> <p>Brown, dry, loose, fine to coarse SAND, some SILT, little GRAVEL, with probable cobbles and boulders.</p> <p>-FLL- (SM)</p> <p>Brown, dry, dense, fine to coarse SAND, some SILT, little GRAVEL, with probable cobbles and boulders.</p> <p>-FLL- (SM)</p> <p>Brown, wet, medium dense, gravelly fine to coarse SAND, little SILT, with probable cobbles and boulders.</p> <p>-GLACIAL TLL- (SM)</p> <p>Bottom of Exploration at 24.00 feet below ground surface.</p>																	
<p>Remarks:</p> <p>1. 3" casing to 20' bgs.</p> <p>2. Water level measured 20 minutes after completion of drilling.</p> <p>3. Cobbles and boulders throughout. RL based on casing and roller cone advancement.</p> <p>4. Split spoon refusal at 19.2' bgs, roller cone from 20.0'-24.0' with approximately 1000 psi pressure 750 rpm, intermediate resistance from 20.2'-22.0' bgs, then minimal resistance from 22.0'-22.7' bgs, then increased resistance (approximately 5 min/ft) from 22.7'-24.0' bgs.</p>																	

Maine Department of Transportation				Project: Cape Neddick Bridge				Boring No.: BB-YCN-103									
Soil/Rock Exploration Log				US CUSTOMARY UNITS				US CUSTOMARY UNITS									
Location: Route 1 Over Cape Neddick River, York, Maine				Location: Route 1 Over Cape Neddick River, York, Maine				Location: Route 1 Over Cape Neddick River, York, Maine									
PIN: 21709.00				PIN: 21709.00				PIN: 21709.00									
Driller:	New England Boring	Elevation (ft.):	29.4	Auger ID/OD:	4.25" / 4.00"	Operator:	Brad Enos	Date:	NAVD 88	Sampler:	Split Spoon	Logged By:	Blaine Cordell	Rig Type:	Truck - Mobile Drill	Hammer Wt./Fall:	140/30
Date Start/Finish:	3/7/17 - 3/7/17	Drilling Method:	SSA/Spin & Wash	Core Barrel:	NK2	Boring Location:	N30988.8, E91894.3	Casing ID/OD:	3"	Water Level:	12.7'	Hammer Efficiency Factor:	0.6	Hammer Type:	Automatic	Hydraulic	Rope & Cathead
<p>Disturbance: <input type="checkbox"/> Rock Core Sample <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p> <p>Notes: <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p> <p>Abbreviations: <input type="checkbox"/> Hole Side Shear Strength (psi) <input type="checkbox"/> Split Spoon Sample <input type="checkbox"/> Unclassified Compressive Strength (psi) <input type="checkbox"/> Liquid Limit <input type="checkbox"/> Plasticity Index</p>																	
<p>Visual Description and Remarks</p> <p>ASPHALT -</p> <p>CONCRETE -</p> <p>Brown, moist, medium dense, gravelly fine to coarse SAND, little SILT, with probable cobbles and boulders.</p> <p>-FLL- (SM)</p> <p>No recovery.</p> <p>Brown, moist, medium dense, gravelly fine to coarse SAND, little SILT, with probable cobbles and boulders.</p> <p>-GLACIAL TLL- (SM)</p> <p>Split spoon refusal at 16.1' bgs. No recovery.</p> <p>-POSSIBLE BEDROCK-</p> <p>Bottom of Exploration at 17.30 feet below ground surface.</p>																	
<p>Remarks:</p> <p>1. From 2.0'-6.0' bgs encountered probable cobbles throughout, based on casing and roller cone advancement.</p> <p>2. Roller cone advancement with approximately 1000 psi 750 RPM, from 16.1'-17.3' bgs, advancement greater than 5 min/ft.</p> <p>3. Water level measured 30 minutes after completion of drilling.</p>																	

**STATE OF MAINE**  
**DEPARTMENT OF TRANSPORTATION**

**CAPE NEDDICK BRIDGE**  
**CAPE NEDDICK RIVER**  
**YORK COUNTY**

**BORING LOGS 1**

**SHEET NUMBER**

**STP-2170900**

**BRIDGE NO. 2127**

**WIN**

**21705.00**

**BRIDGE PLANS**

PROJ. MANAGER	DEVON EATON	BY	DATE
DESIGN-DETAILED	E. Farago	C. Helmick	6/18
CHECKED-REVIEWED	L. Driscoll	R. Harff	6/18
DESIGN-DETAILED	-	-	-
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE

P.E. NUMBER

DATE

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Cape Neddick Bridge 08-002930.00		Boring No.: BB-YCN-104																																																																																										
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Driller: New England Boring		Datum: NAVD 88		Auger ID/OD: 4.25" OD																																																																																										
Operator: Brad Enos		Rig Type: Truck - Mobile Drill		Sampler: Split Spoon																																																																																										
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Date Start/Finish: 3/6/17 - 3/6/17		Casing ID/OD: 4"		Core Barrel: NX2																																																																																										
Boring Location: N13016.7, E918958.9		Hammer Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cothead <input checked="" type="checkbox"/>		Water Level: *																																																																																										
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Sample No.	Plan/Rec. (in.)	Sample Depth (ft.)	Blow (1/8 in.) Shear Strength or ROD (ft)	Blow (1/8 in.) Shear Strength or ROD (ft)	Unclassified	NGD	NGD	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Result: AASHTO and Unified Class.																																																																																																																									
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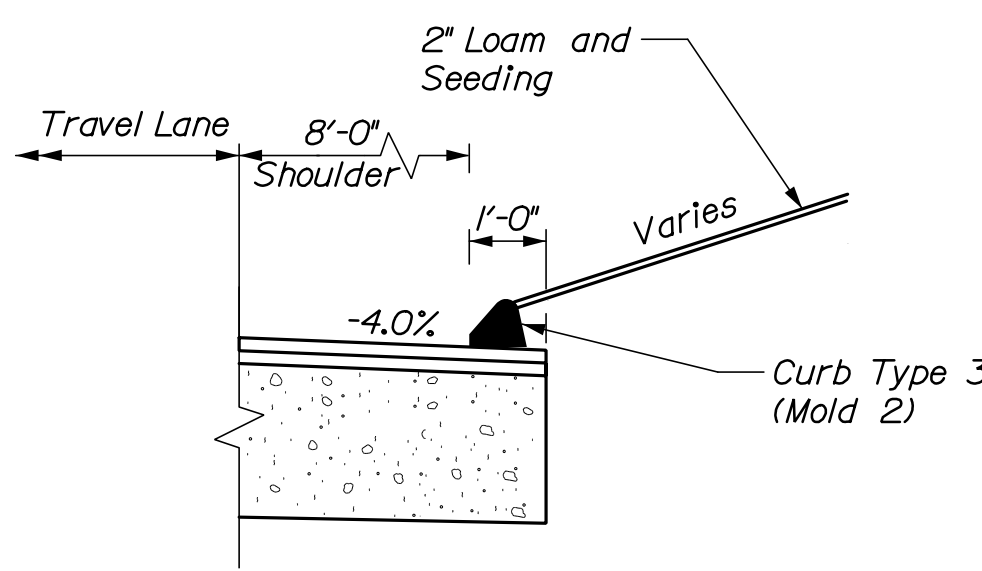
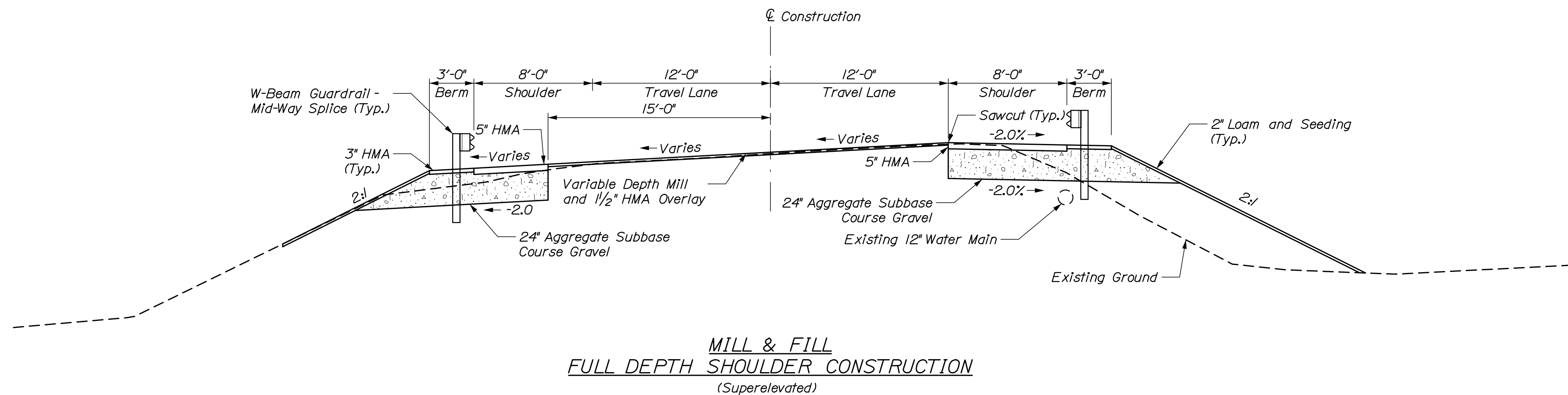
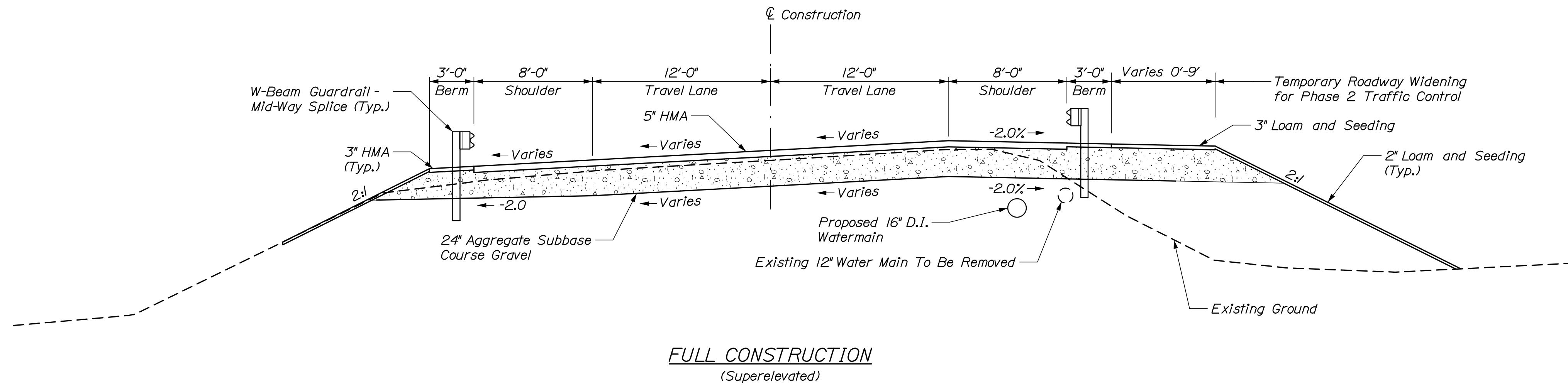
<b>STATE OF MAINE</b>		<b>DEPARTMENT OF TRANSPORTATION</b>		<b>STP-2170900</b>		<b>WIN</b>		<b>BRIDGE PLANS</b>	
<b>CAPE NEDDICK BRIDGE</b>		<b>CAPE NEDDICK RIVER</b>		<b>YORK COUNTY</b>		<b>BORING LOGS 2</b>		<b>SHEET NUMBER</b>	
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Date: 7/20/2018

Username:

Division:

Filename: 009\_Typical Section.dgn



CURB TYPE 3 DETAIL

Route 1 Super (e)				
Left Shldr. %	Left Lane %	Station	Right Lane %	Right Shldr. %
Match Existing		1201+75	Match Existing	
-4.0	-4.0	1202+00	+4.0	0.0
-4.7	-4.7	1202+25	+4.7	-1.0
-5.4	-5.4	1202+50	+5.4	-2.0
		To		
-5.4	-5.4	1205+00	+5.4	-2.0
-4.5	-4.5	1205+25	+4.5	-2.0
-4.0	-3.6	1205+50	+3.6	-2.0
-4.0	-2.7	1205+75	+2.7	-2.0
-4.0	-1.8	1206+00	+1.8	-2.0
-4.0	-0.9	1206+25	+0.9	-2.0
-3.3	+0.1	1206+50	-0.1	-2.0
Match Existing		1206+75	Match Existing	

- NOTES:**
1. The pavement, base and subbase depths as shown on the plans are intended to be nominal.
  2. When superelevation of the travelway exceeds the slope of the low side shoulder, the low side shoulder pavement shall have the same cross slope as the travelway.
  3. Crowns for both normal and superelevation sections for all courses of subbase and pavement shall be straight.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2170900		BRIDGE NO. 2127		WIN		21709.00		BRIDGE PLANS	
CAPE NEDDICK BRIDGE		CAPE NEDDICK RIVER		YORK COUNTY		YORK		TYPICAL SECTIONS		SHEET NUMBER		9	
PROJ. MANAGER		DEVON EATON		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		E. Farago		C. Helmick		6/18		R. Hart					
CHECKED-REVIEWED		L. Driscoll		R. Hart		6/18							
DESIGN-DETAILED													
REVISIONS 1													
REVISIONS 2													
REVISIONS 3													
REVISIONS 4													
FIELD CHANGES													

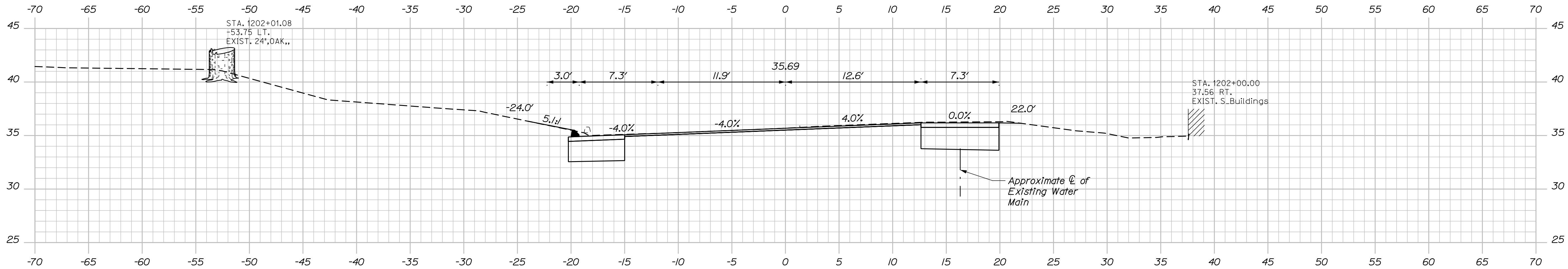


Date: 7/20/2018

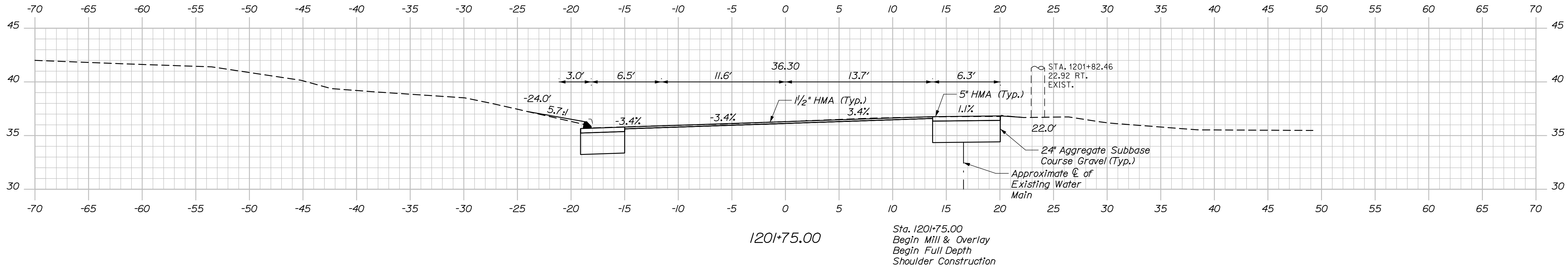
Username:

Division:

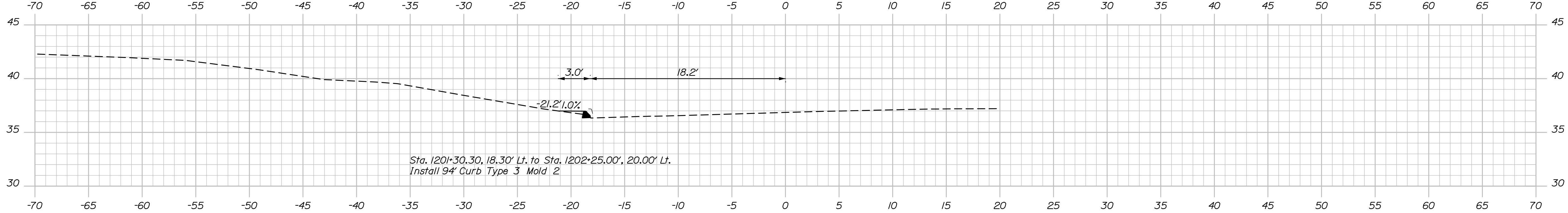
Filename: xsec.dgn



1202+00.00



1201+75.00



1201+50.00

DESIGN-DETAILED	DATE	6/18	SIGNATURE
CHECKED-REVIEWED	DATE	6/18	P.E. NUMBER
DESIGN-DETAILED	DATE	-	DATE
REVISIONS 1	DATE	-	-
REVISIONS 2	DATE	-	-
REVISIONS 3	DATE	-	-
REVISIONS 4	DATE	-	-
FIELD CHANGES	DATE	-	-

PROJ. MANAGER	DEVON EATON
DESIGN-DETAILED	E. FARAGAS
CHECKED-REVIEWED	L. DRISCOLL
DESIGN-DETAILED	-
REVISIONS 1	-
REVISIONS 2	-
REVISIONS 3	-
REVISIONS 4	-
FIELD CHANGES	-

CAPE NEDDICK BRIDGE  
CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
CROSS SECTIONS



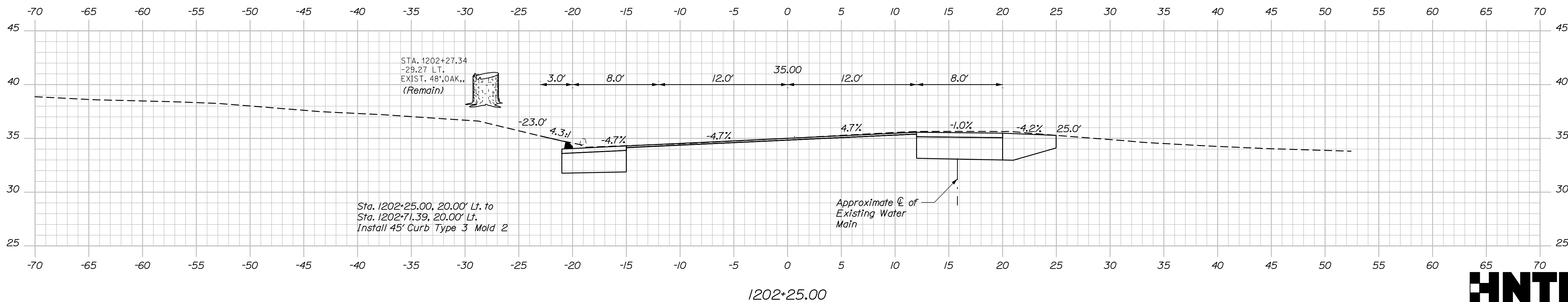
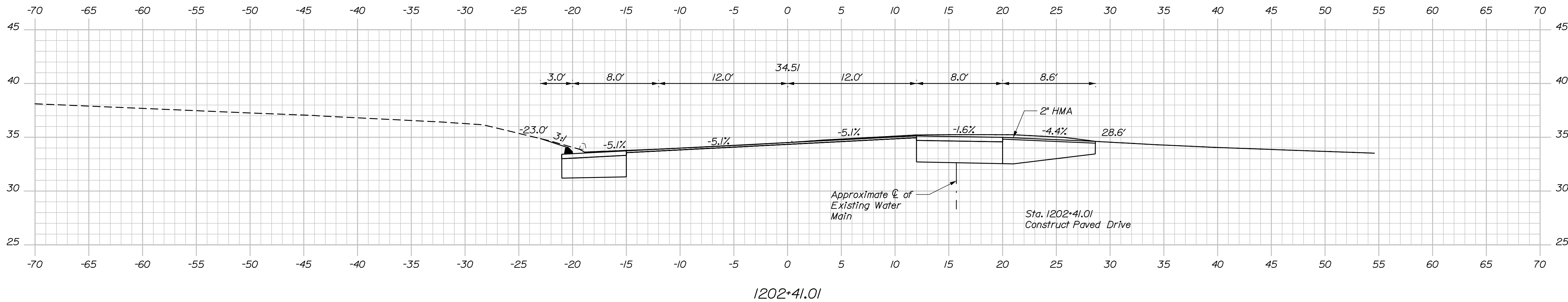
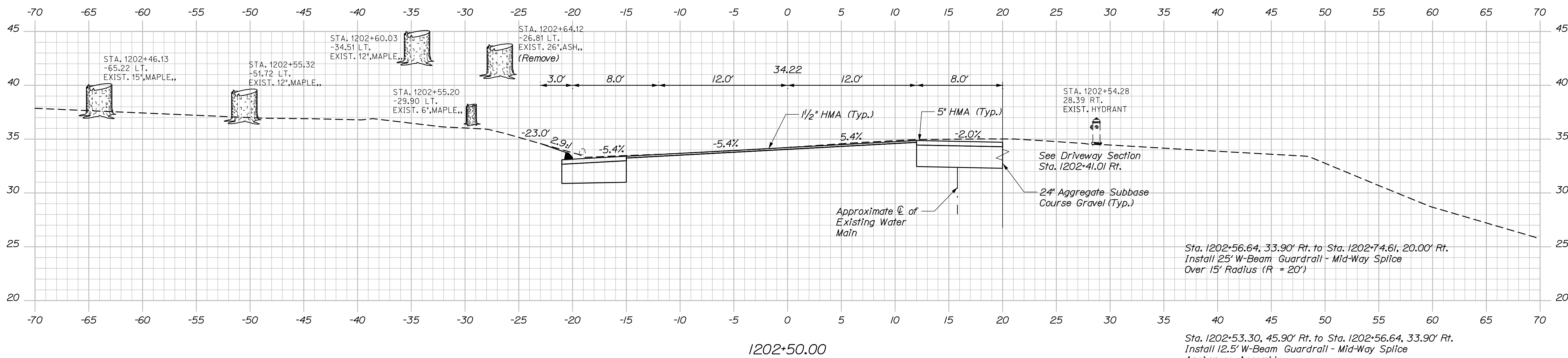
Date: 7/20/2018

Username:

Division:

Filename: xsec.dgn

Sta. 1202+71.39, 20.00' Lt. to Sta. 1203+23.19', 25.00' Lt.  
Install 50' Curb Type 3 Mold 2



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-2170900  
WIN 21709.00  
BRIDGE NO. 2127  
BRIDGE PLANS

PROJ. MANAGER	Devon Eaton	BY	DATE
DESIGN-DETAILED	E. Farago	S. Scribner	6/18
CHECKED-REVIEWED	L. Driscoll	R. Harf	6/18
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

CAPE NEDDICK BRIDGE  
CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
CROSS SECTIONS

SHEET NUMBER  
**11**  
OF 29



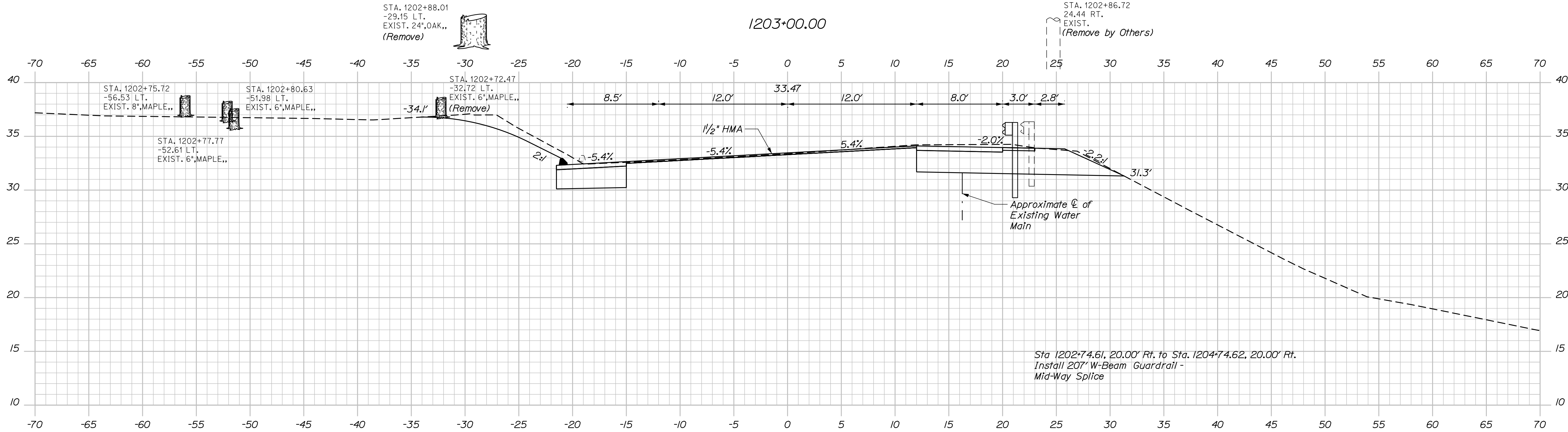
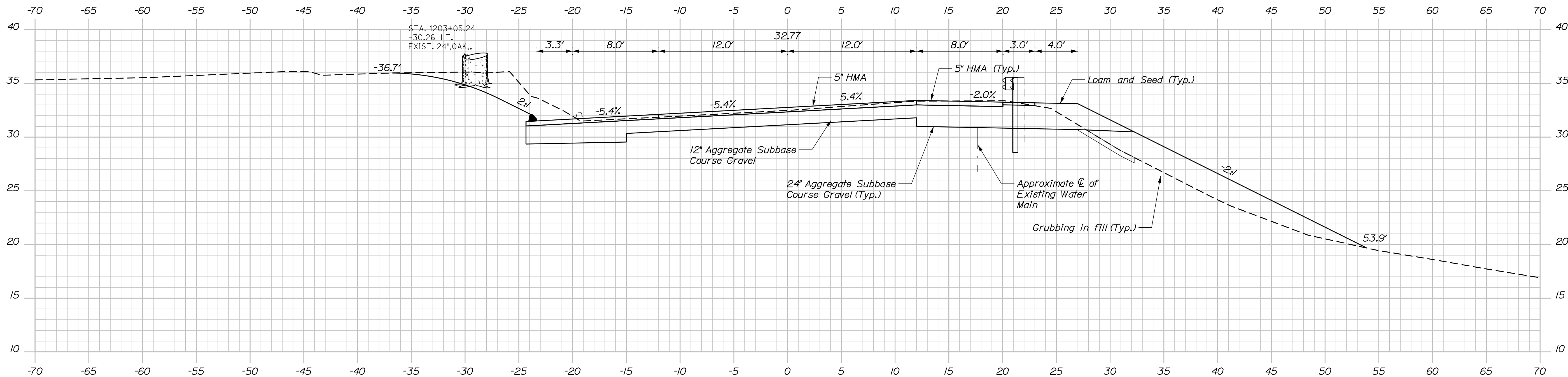
Date: 7/20/2018

Username:

Division:

Filename: xsec.dgn

Sta. 1203+23.19, 20.00' Lt. to Sta. 1203+75.00, 20.00' Lt.  
Install W-Beam Guardrail - Mid-Way Splice Tangent Terminal



1202+75.00  
Sta. 1202+75.00  
End Mill and Overlay  
Begin Transition  
Match Existing

Sta. 1202+74.61, 20.00' Rt. to Sta. 1204+74.62, 20.00' Rt.  
Install 207' W-Beam Guardrail -  
Mid-Way Splice

STATE OF MAINE	BRIDGE NO. 2127	WIN	21709.00
DEPARTMENT OF TRANSPORTATION	BRIDGE PLANS		
STP-2170900			

PROJ. MANAGER	DEVON EATON	BY	DATE
DESIGN-DETAILED	E. FARAGAS	S. SCRIBNER	6/18
CHECKED-REVIEWED	L. DISCOLL	R. HART	6/18
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE	P.E. NUMBER	DATE

CAPE NEDDICK BRIDGE	YORK COUNTY
CAPE NEDDICK RIVER	YORK COUNTY
YORK	CROSS SECTIONS

SHEET NUMBER	12
OF 29	



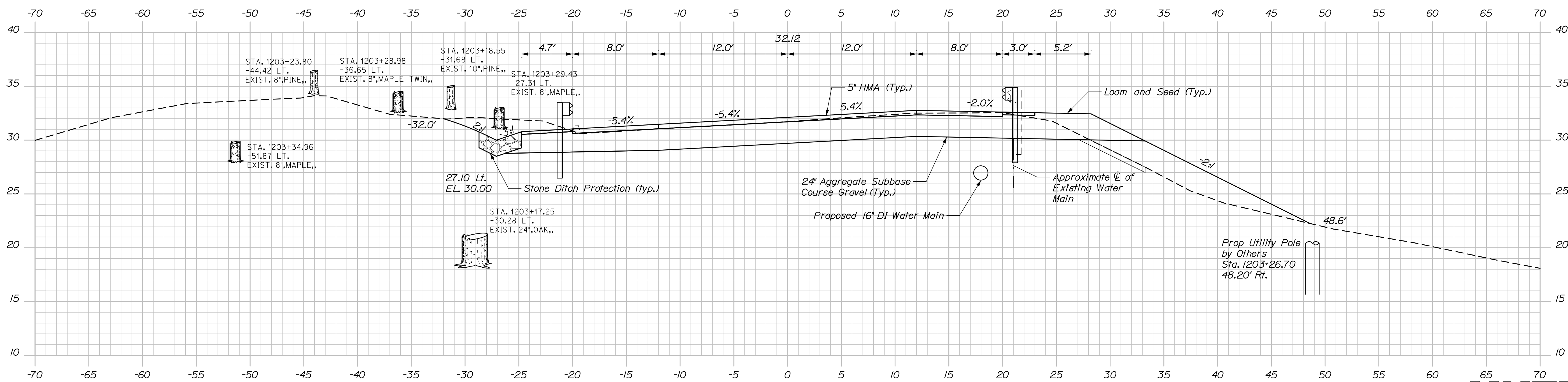
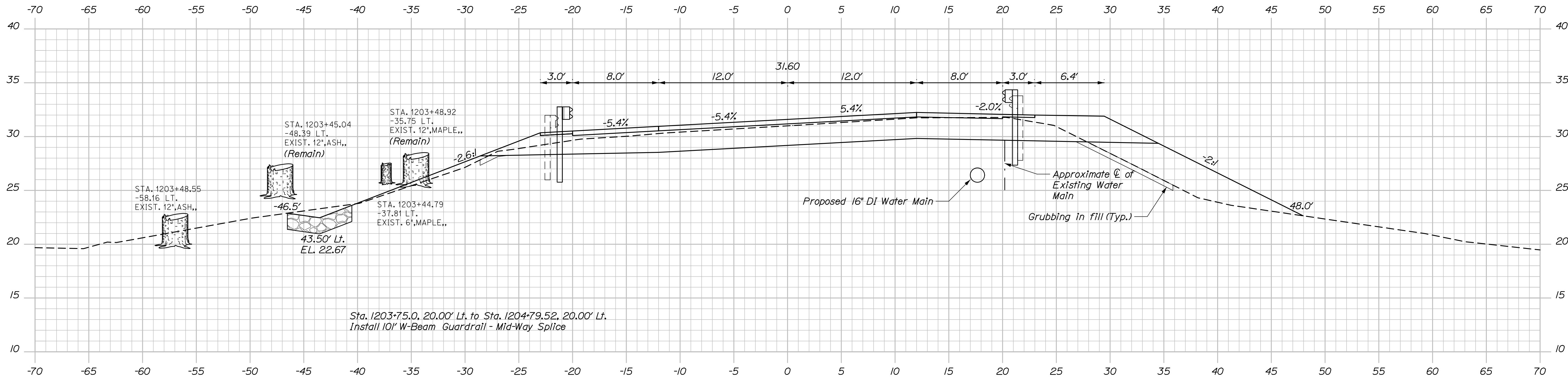
Sta. 1202+75.00 to Sta. 1203+00.00

Date: 7/20/2018

Username:

Division:

Filename: xsec.dgn



Sta. 1203+25.00  
End Transition  
Begin Project WIN 21709.00



Sta. 1203+25.00 to Sta. 1203+50.00

PROJ. MANAGER	DEVON EATON	BY	DATE
DESIGN-DETAILED	E. Farago	S. Scribner	6/18
CHECKED-REVIEWED	L. Driscoll	R. Harf	6/18
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE	P.E. NUMBER	DATE
-	-	-
-	-	-
-	-	-
-	-	-

CAPE NEDDICK BRIDGE  
CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
CROSS SECTIONS

SHEET NUMBER  
**13**  
OF 29

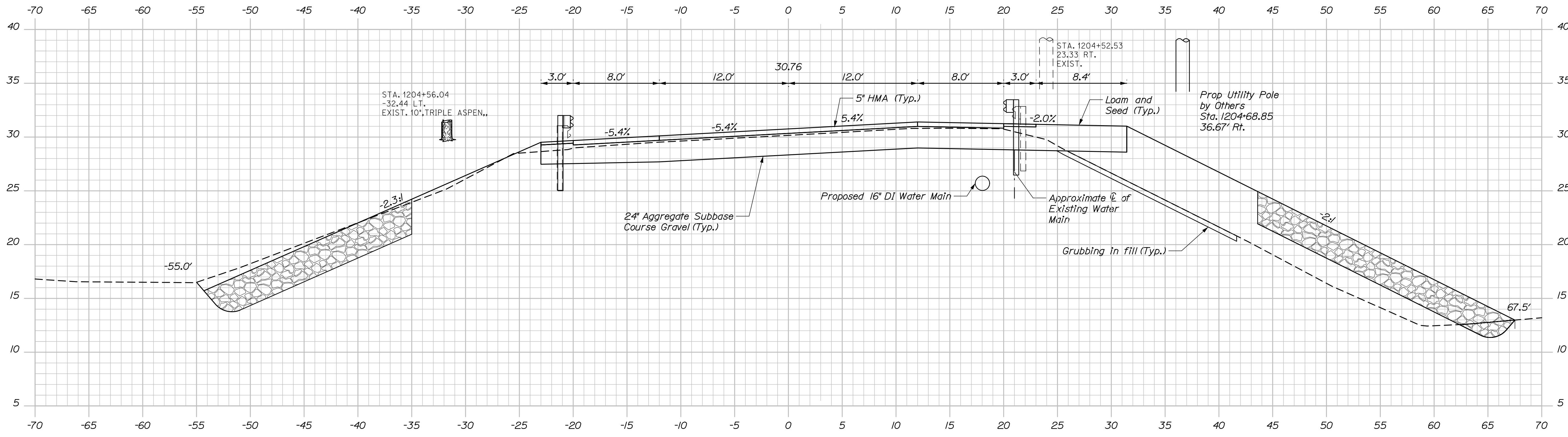


Date: 7/20/2018

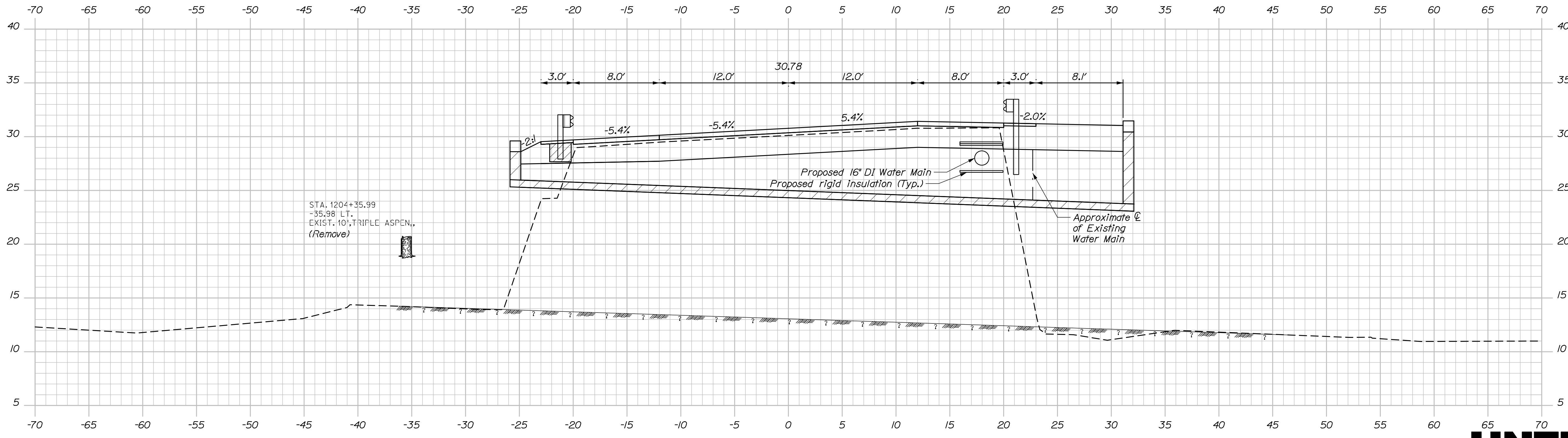
Username:

Division:

Filename: xsec.dgn



1204+50.00



1204+25.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-2170900		BRIDGE NO. 2127		WIN		21709.00		BRIDGE PLANS	
PROJECT MANAGER		BY		DATE		SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED		E. Farago		6/18		S. Scribner					
CHECKED-REVIEWED		L. Driscoll		6/18		R. Harf					
DESIGN-DETAILED											
REVISIONS 1											
REVISIONS 2											
REVISIONS 3											
REVISIONS 4											
FIELD CHANGES											
CAPE NEDDICK BRIDGE		YORK COUNTY		YORK		YORK COUNTY		YORK COUNTY		CROSS SECTIONS	
SHEET NUMBER		15		OF 29							



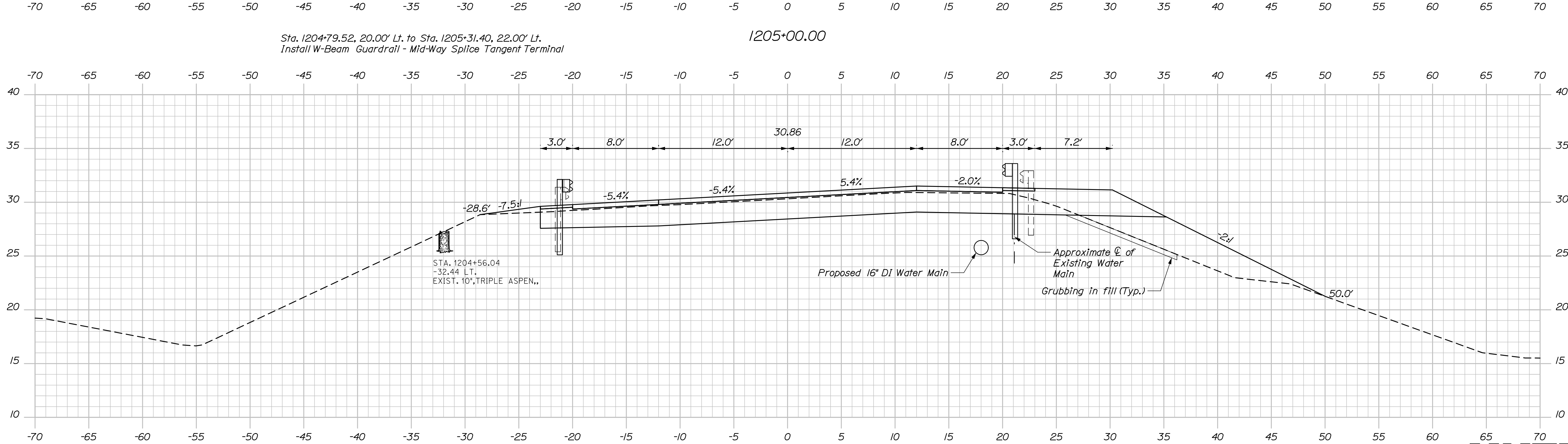
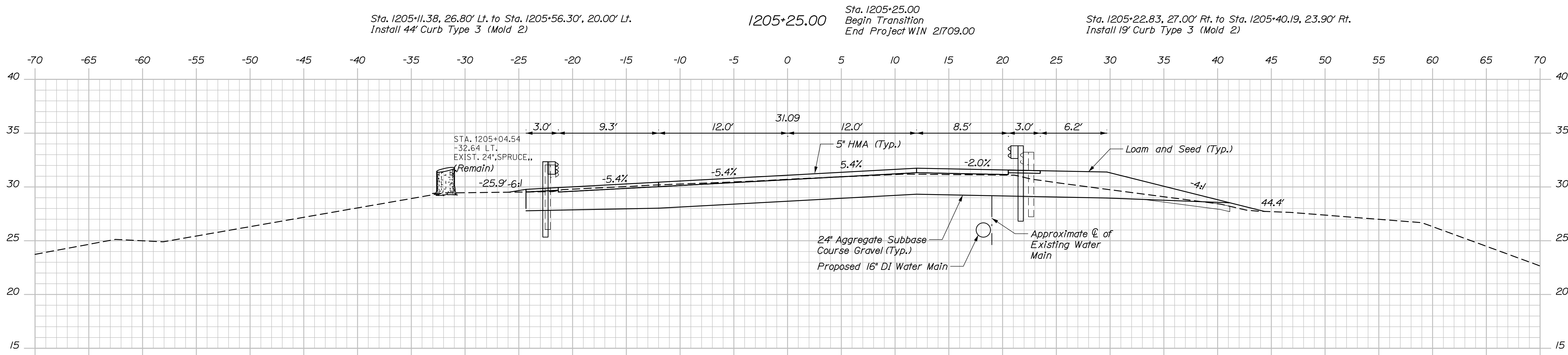
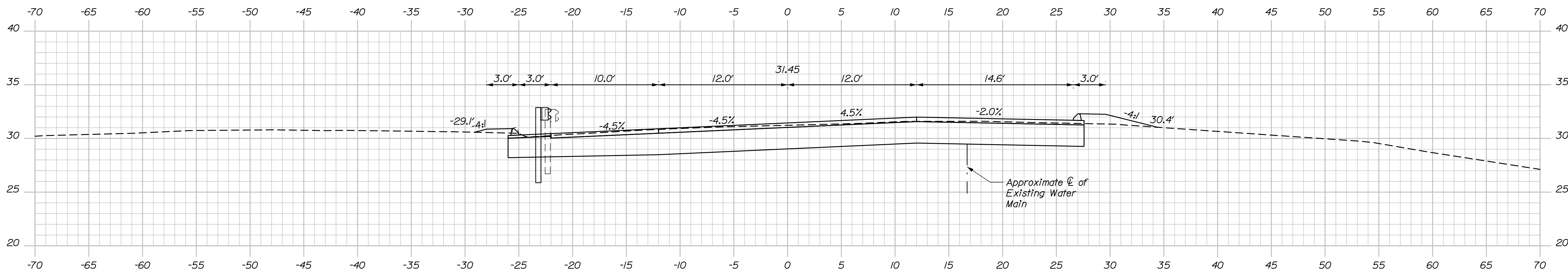
Sta. 1204+25.00 to Sta. 1204+50.00

Date: 7/20/2018

Username:

Division:

Filename: xsec.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-2170900  
WIN 21709.00  
BRIDGE NO. 2127  
BRIDGE PLANS

PROJ. MANAGER	DEVON EATON	BY	DATE
DESIGN-DETAILED	E. Farago	S. Scribner	6/18
CHECKED-REVIEWED	L. Driscoll	R. Harf	6/18
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

SIGNATURE	P.E. NUMBER	DATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

CAPE NEDDICK BRIDGE  
CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
CROSS SECTIONS

SHEET NUMBER  
**16**  
OF 29



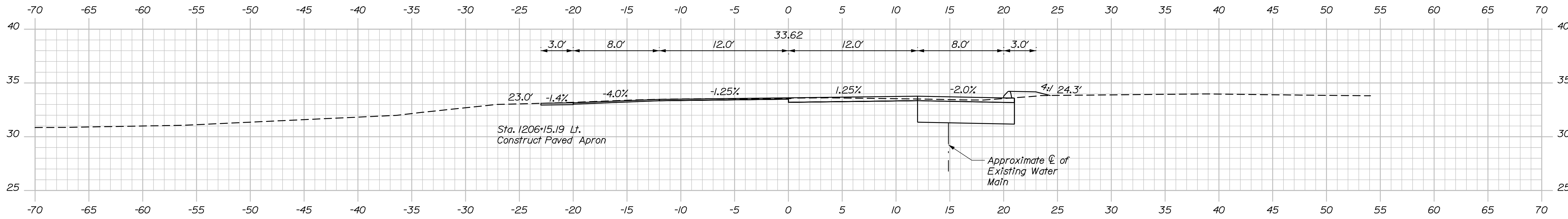
Sta. 1204+75.00 to Sta. 1205+25.00

Date: 7/20/2018

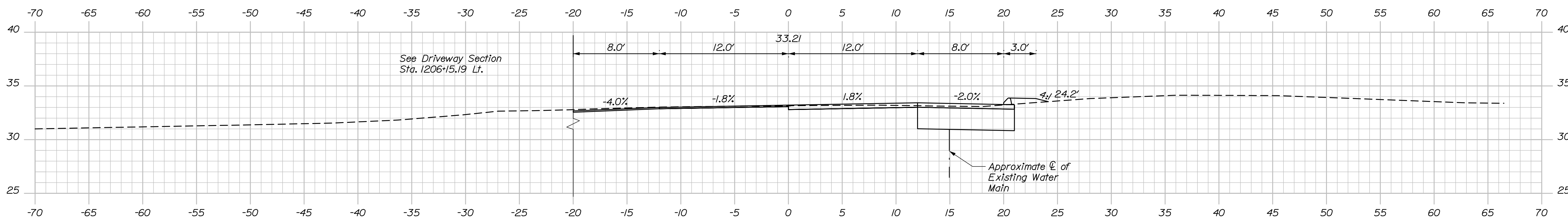
Username:

Division:

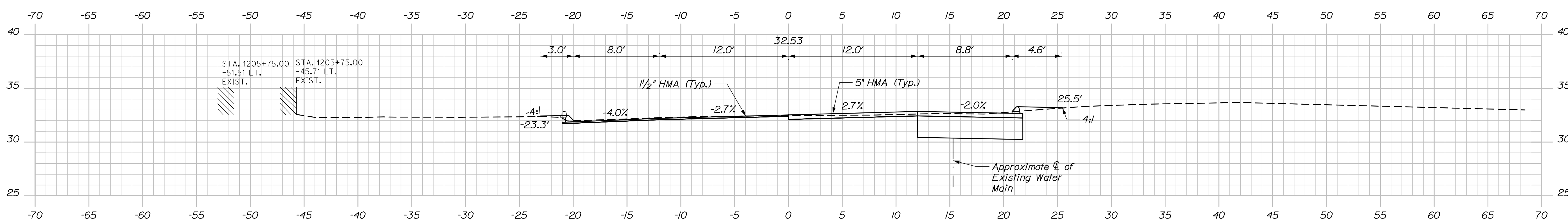
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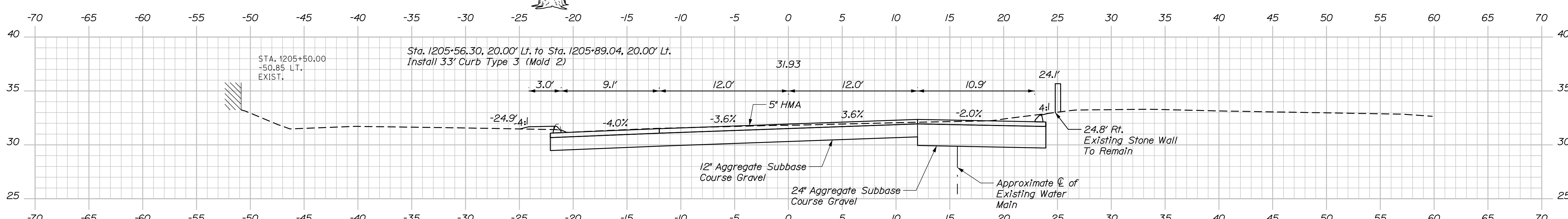
1206+15.19



1206+00.00



1205+75.00



1205+50.00



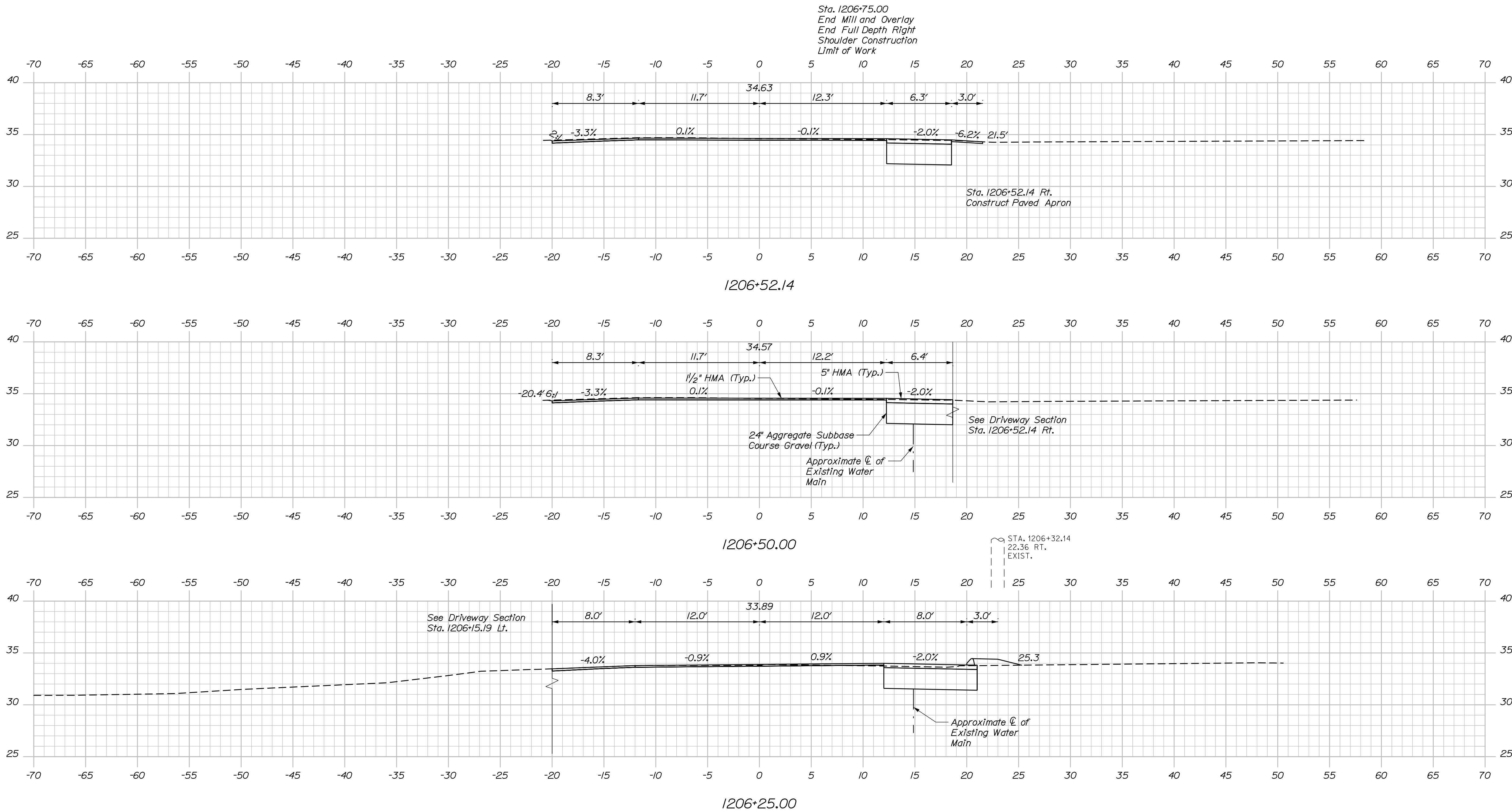
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2170900		BRIDGE NO. 2127		WIN		21709.00		BRIDGE PLANS	
CAPE NEDDICK BRIDGE		CAPE NEDDICK RIVER		YORK COUNTY		YORK		CROSS SECTIONS		SHEET NUMBER		17	
PROJ. MANAGER		BY		DATE		DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED		SIGNATURE	
E. Farago		S. Scribner		6/18		L. Driscoll		R. Harf		6/18		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		FIELD CHANGES		DATE		DATE	

Date: 7/20/2018

Username:

Division:

Filename: xsec.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-2170900  
BRIDGE NO. 2127 WIN 21709.00  
BRIDGE PLANS

DESIGN-DETAILED BY DATE  
CHECKED-REVIEWED S. Scribner 6/18  
DESIGN-DETAILED L. Driscoll 6/18  
SIGNATURE P.E. NUMBER DATE

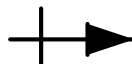
PROJ. MANAGER	DEVON EATON	BY	DATE
DESIGN-DETAILED	E. Farago	S. Scribner	6/18
CHECKED-REVIEWED	L. Driscoll	R. Harf	6/18
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-


CAPE NEDDICK BRIDGE  
CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
CROSS SECTIONS

SHEET NUMBER  
18  
OF 29



**LEGEND**

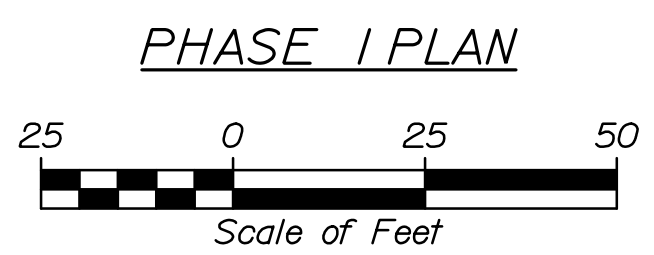
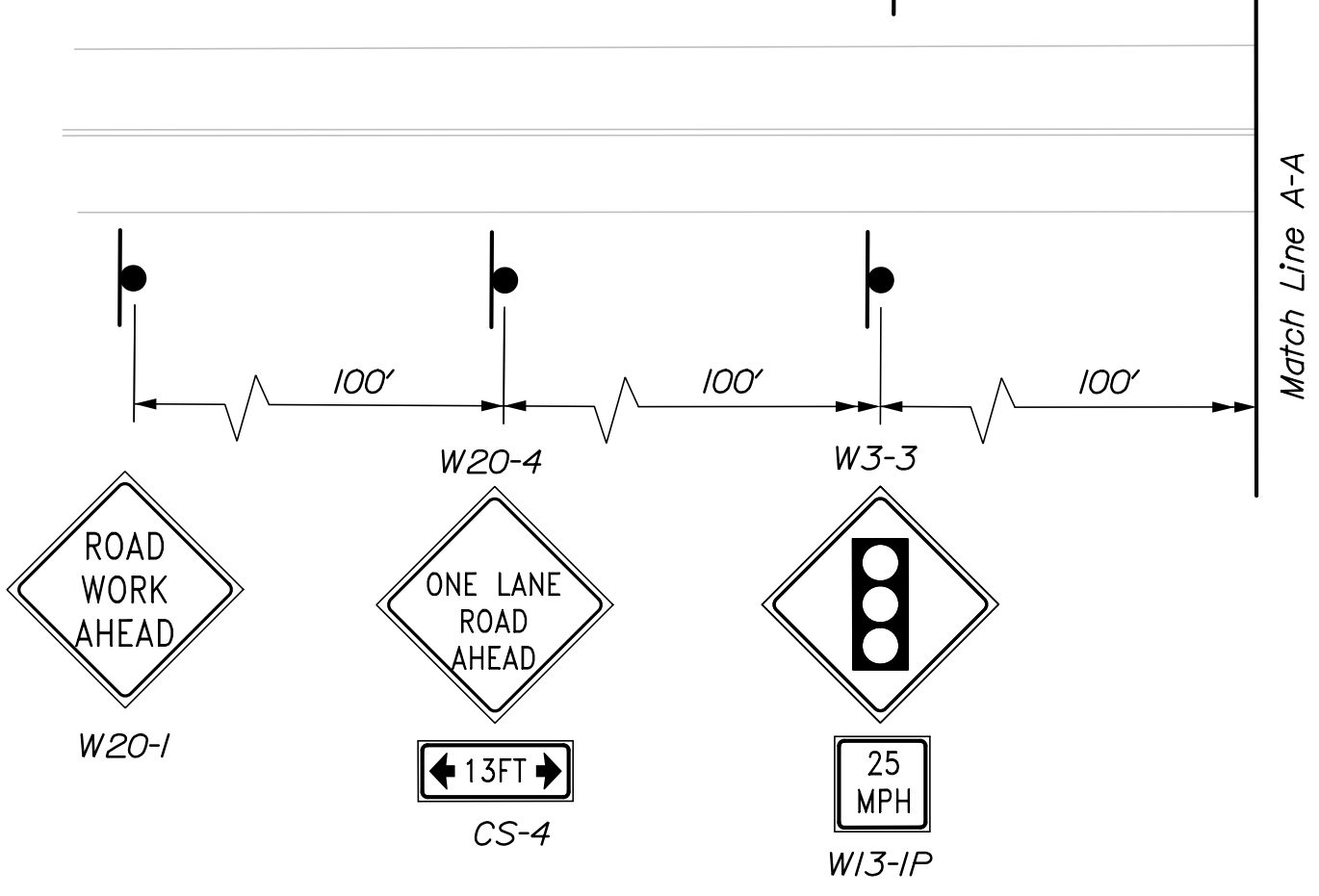
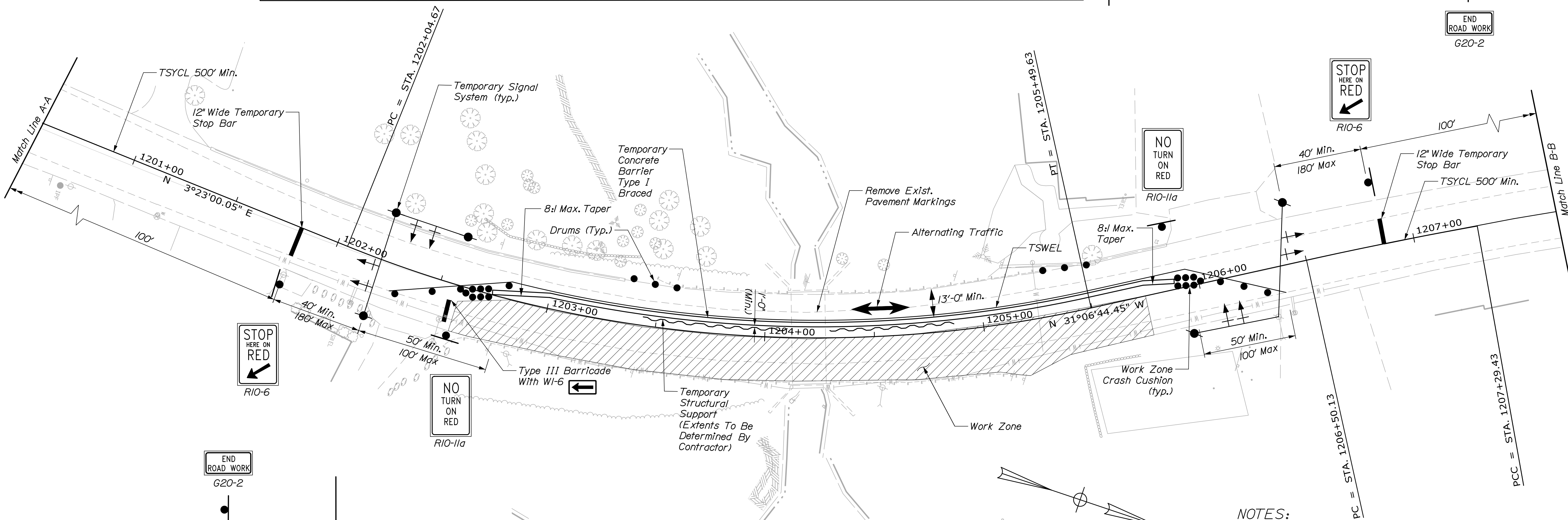
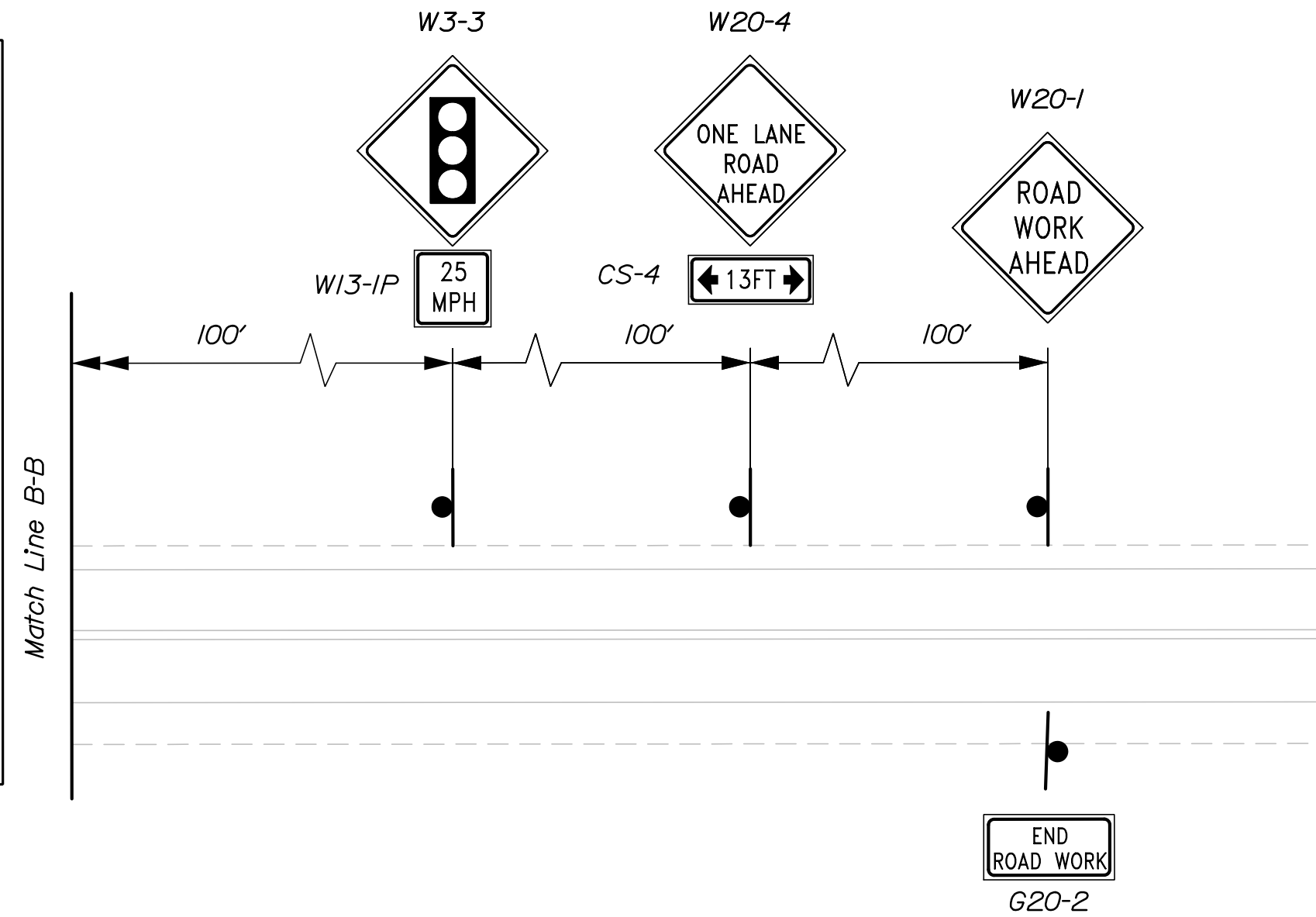
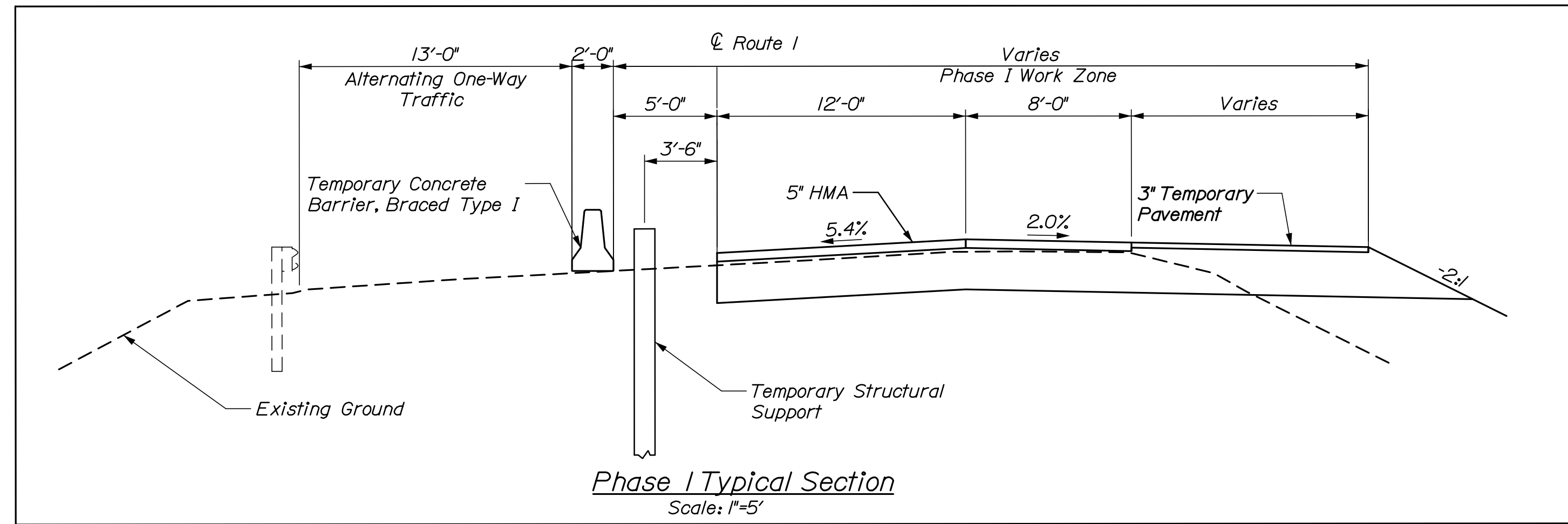
Signal Head 

Wood or Strain Pole 

TSYCL = Temporary Solid Yellow Center Line

TSWEL = Temporary Solid White Edge Line

TSDYCL = Temporary Solid Double Yellow Center Line



**NOTES:**

- In Phase I, 13' minimum lane width is measured from face of guardrail to face of temporary concrete barrier. During temporary concrete barrier installation, lane may be reduced to a 10' minimum width.
- Sign locations shown are approximate. Actual locations shall be determined in the field and approved by the Resident.
- The Contractor shall cover all existing signs that conflict with work zone signs and signals.
- All traffic control shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways", (MUTCD), U.S.D.O.T., FHWA, latest edition.
- The Contractor shall remove all existing pavement markings that conflict with proposed markings.
- Delineate face of barrier when next to travel way (reflective delineators).

Date: 7/20/2018

Username:

Division:

Filename: 019\_Traffic ControlPlan\_1.dgn

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-2170900  
BRIDGE NO. 2127  
WIN  
21709.00  
BRIDGE PLANS

PROJ. MANAGER	DEVON EATON	DATE	DATE
DESIGN-DETAILED	E. Davidson	6/18	6/18
CHECKED-REVIEWED	L. Driscoll		
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER	DEVON EATON	DATE	DATE
DESIGN-DETAILED	E. Davidson	6/18	6/18
CHECKED-REVIEWED	L. Driscoll		
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

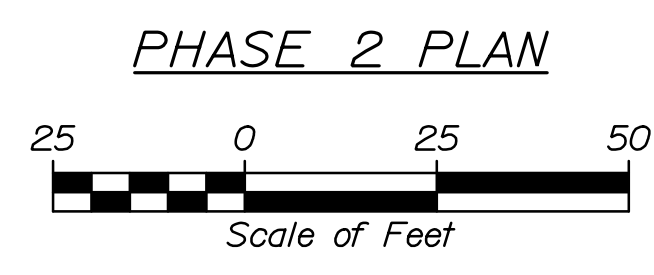
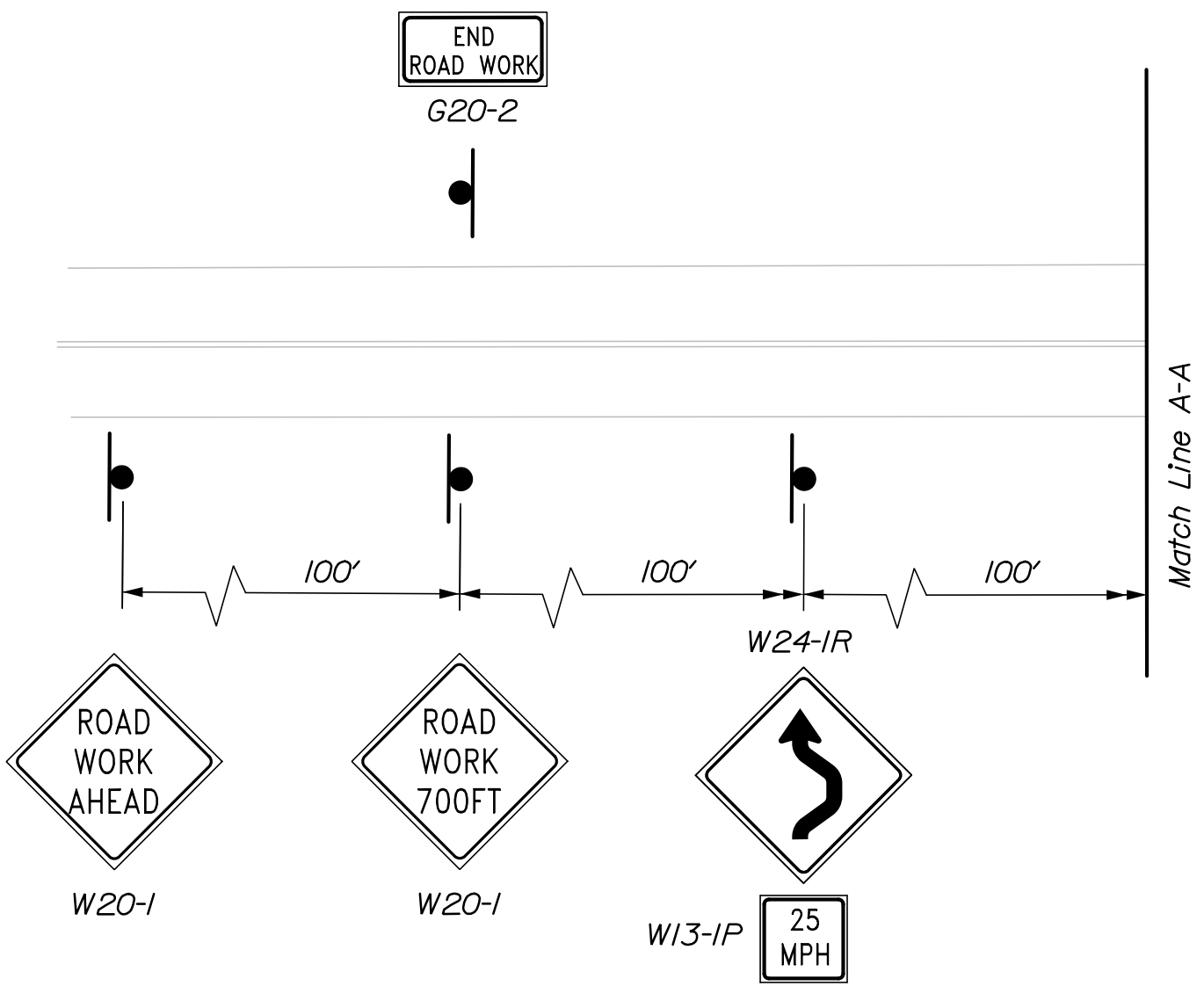
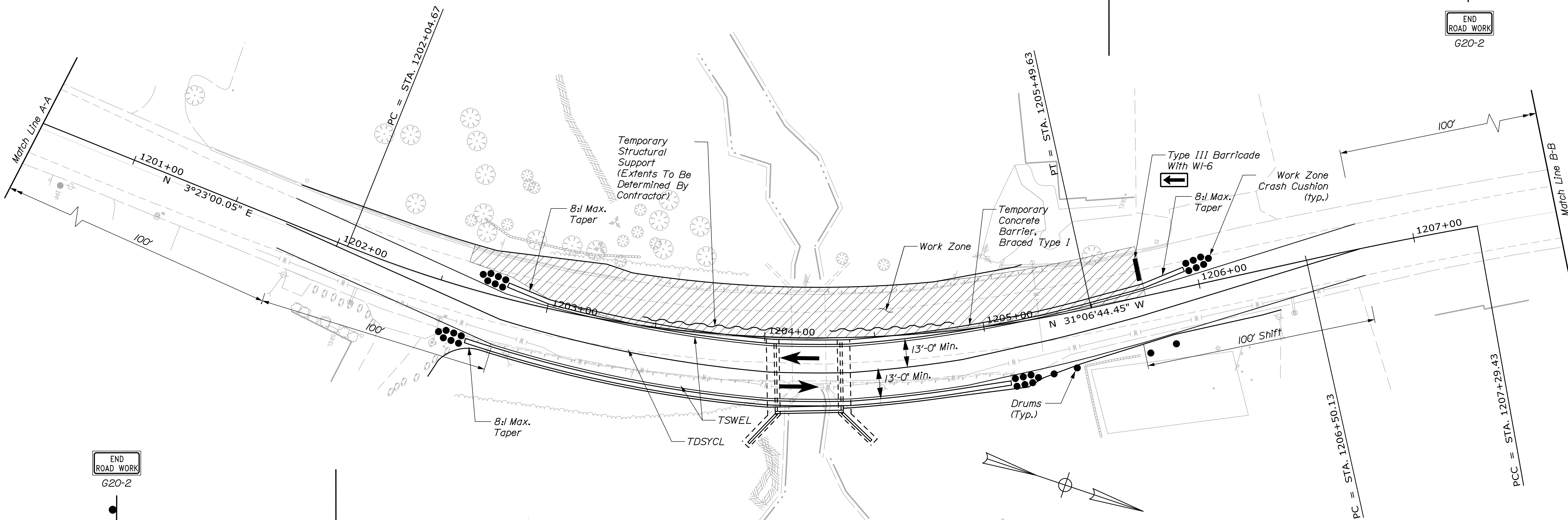
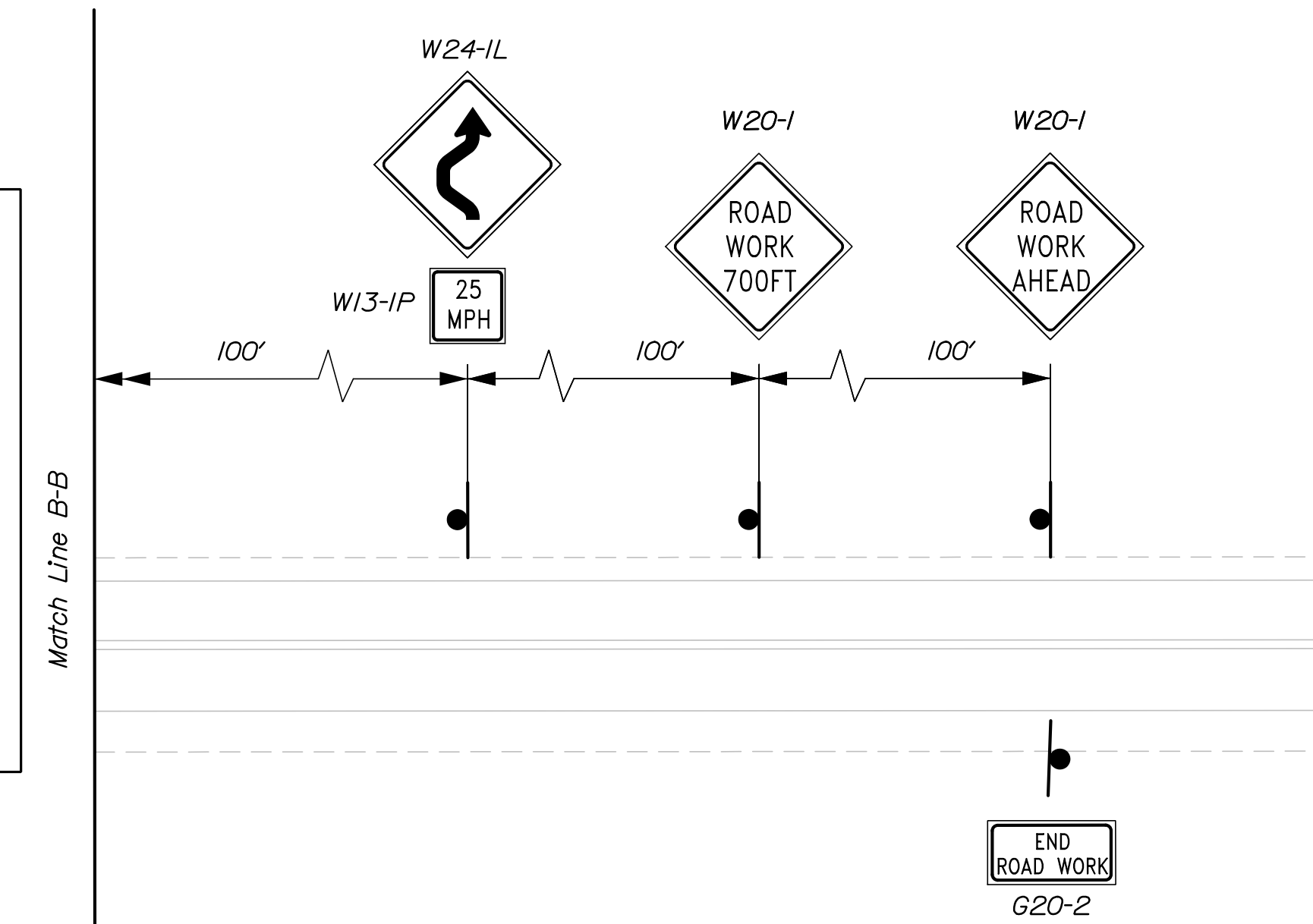
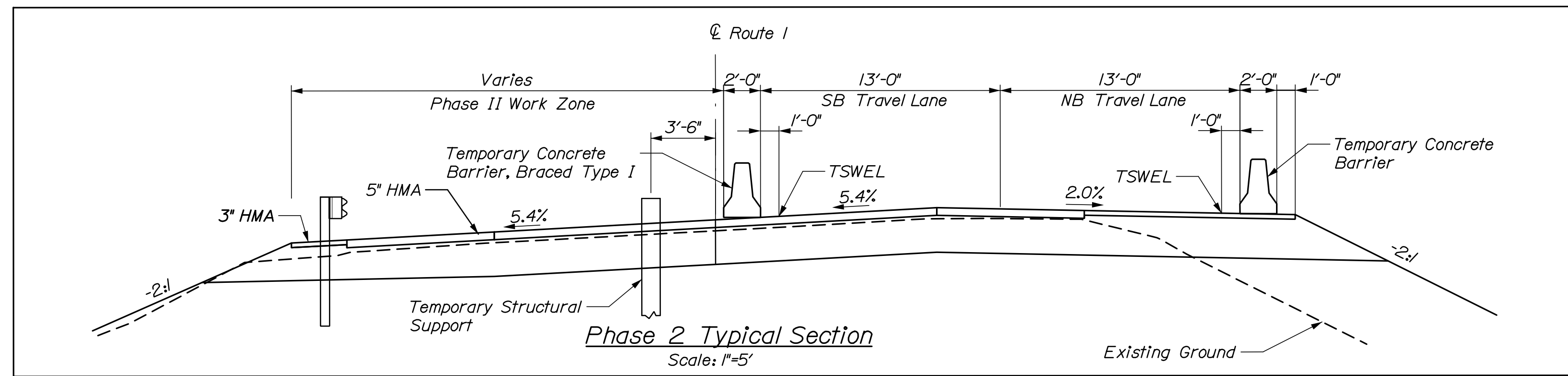
CAPE NEDDICK BRIDGE  
CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
**CONCEPTUAL TRAFFIC CONTROL PLAN**

SHEET NUMBER  
**19**  
OF 29



**LEGEND**

- TSYCL = Temporary Solid Yellow Center Line
- TSWEL = Temporary Solid White Edge Line
- TSDYCL = Temporary Solid Double Yellow Center Line



- NOTES:**
1. In Phase 2, a 26' minimum roadway width is measured from face of guardrail to face of temporary concrete barrier. Lane width shall be 12' minimum.
  2. Sign locations shown are approximate. Actual locations shall be determined in the field and approved by the Resident.
  3. The Contractor shall cover all existing signs that conflict with work zone signs and signals.
  4. All traffic control shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways", (MUTCD), U.S.D.O.T., FHWA, latest edition.
  5. The Contractor shall remove all existing pavement markings that conflict with proposed markings.
  6. Delineate face of barrier when next to travel way (reflective delineators).

Date: 7/20/2018

Username:

Division:

Filename: 020\_Traffic ControlPlan\_2.dgn

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		STP-2170900		BRIDGE NO. 2127		BRIDGE PLANS	
CAPE NEDDICK BRIDGE CAPE NEDDICK RIVER YORK COUNTY		YORK COUNTY		YORK		TRAFFIC CONTROL PLAN	
PROJ. MANAGER	DEVON EATON	BY	DATE	DESIGN-DETAILED	E. Davidson	6/18	SIGNATURE
CHECKED-REVIEWED	L. Driscoll	R. Harf	6/18	DESIGN-DETAILED			P.E. NUMBER
DESIGN-DETAILED				REVISIONS 1			DATE
				REVISIONS 2			
				REVISIONS 3			
				REVISIONS 4			
				FIELD CHANGES			
SHEET NUMBER		20		OF 29			



Date: 7/20/2018

Username:

Division:

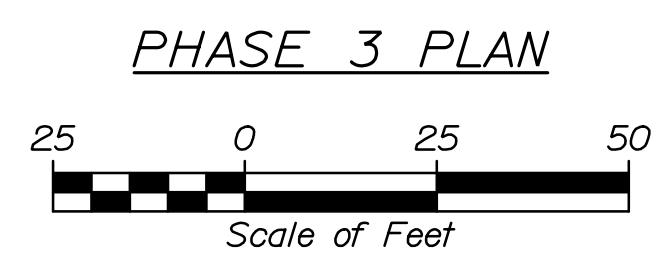
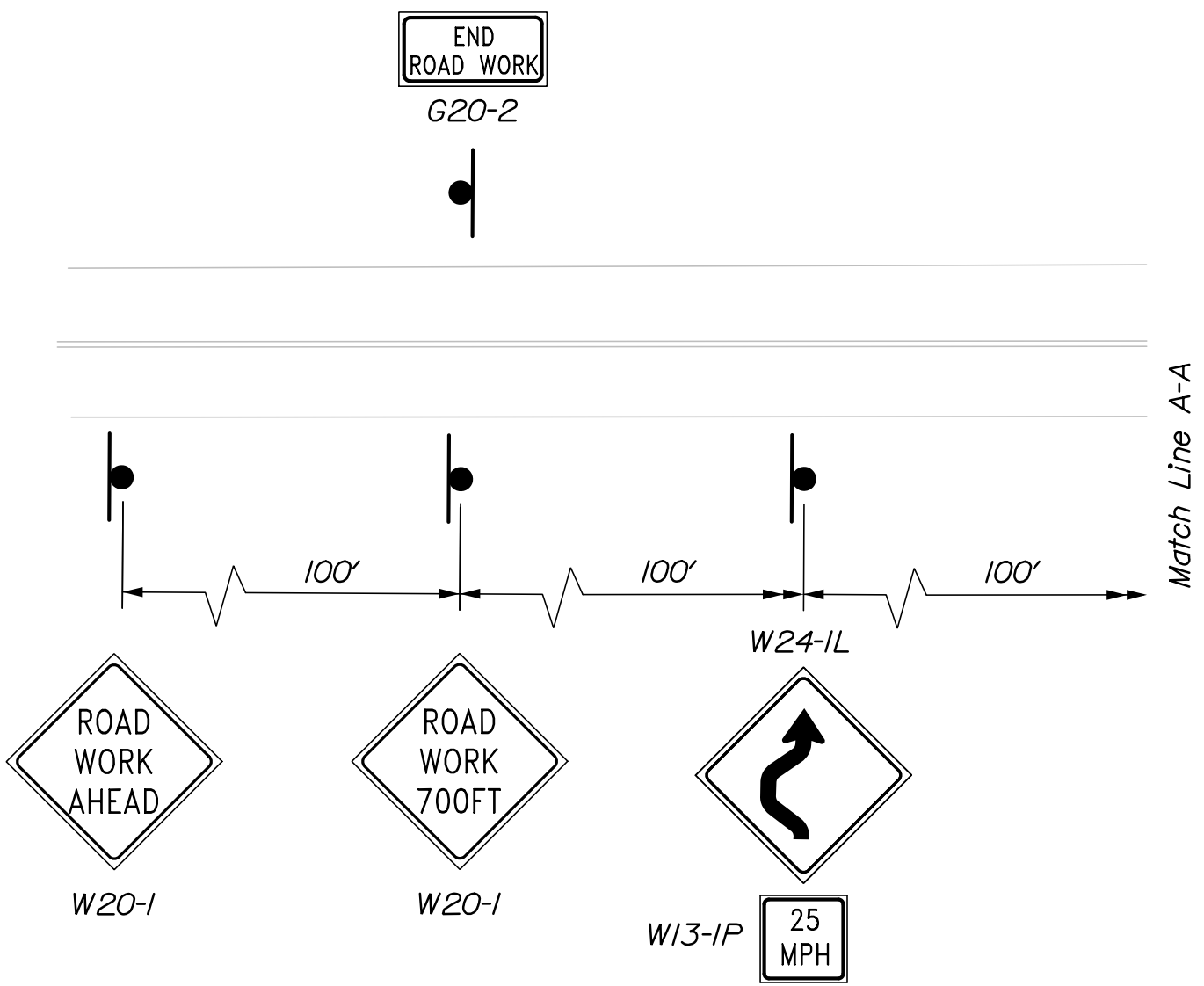
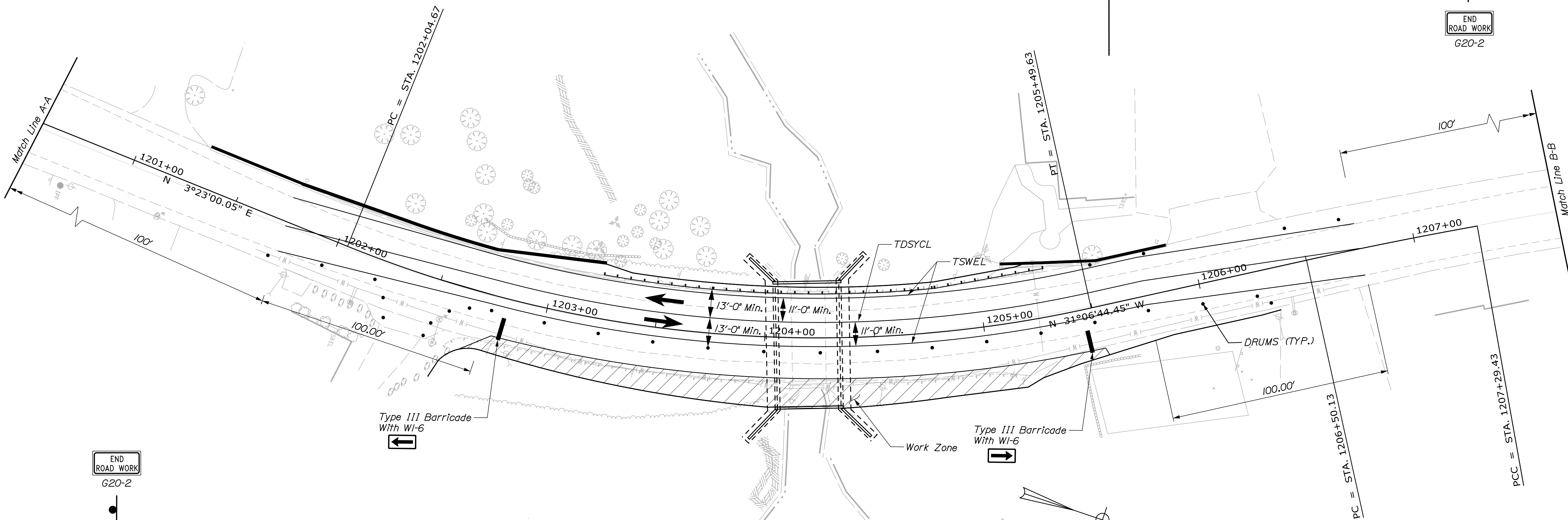
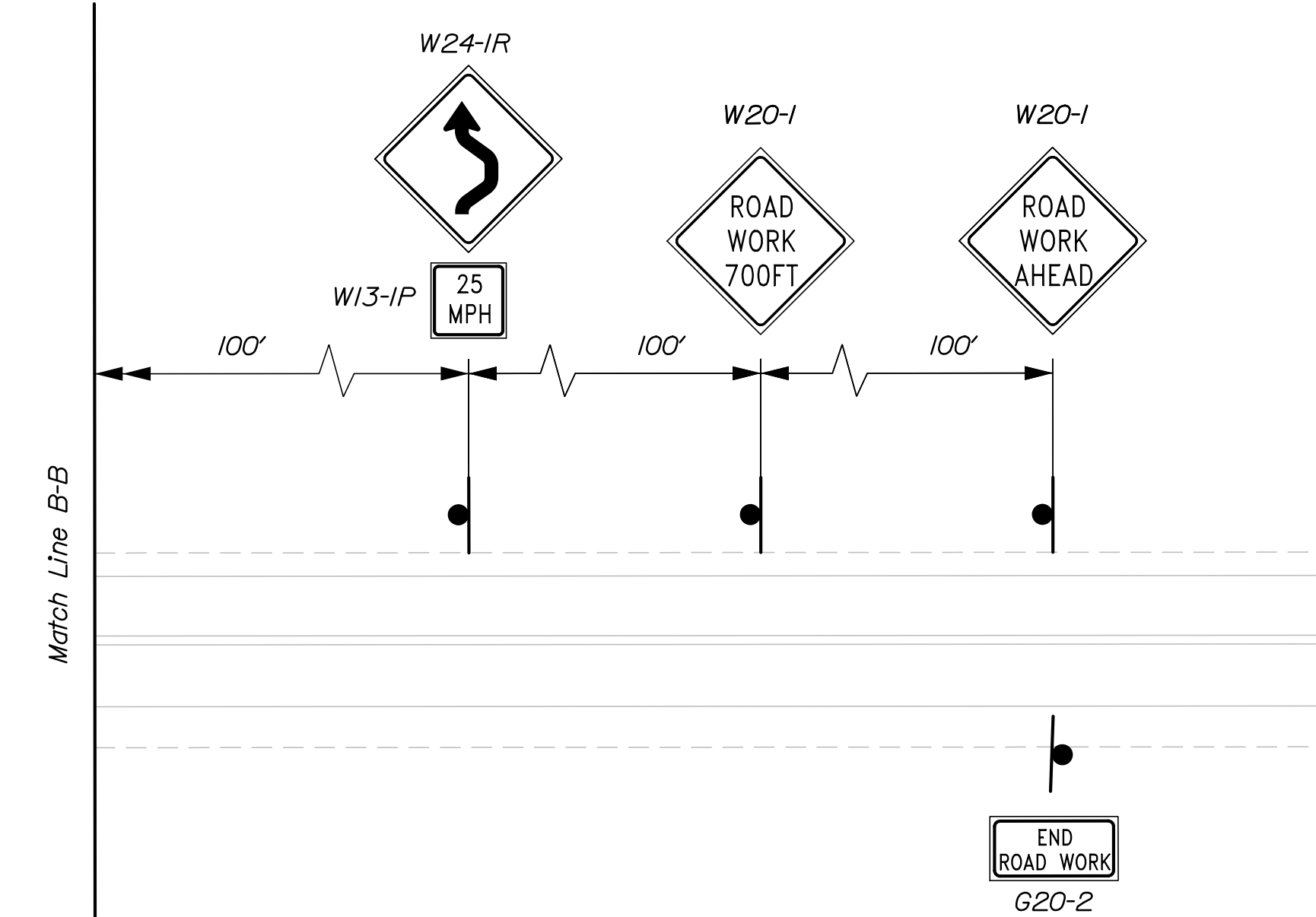
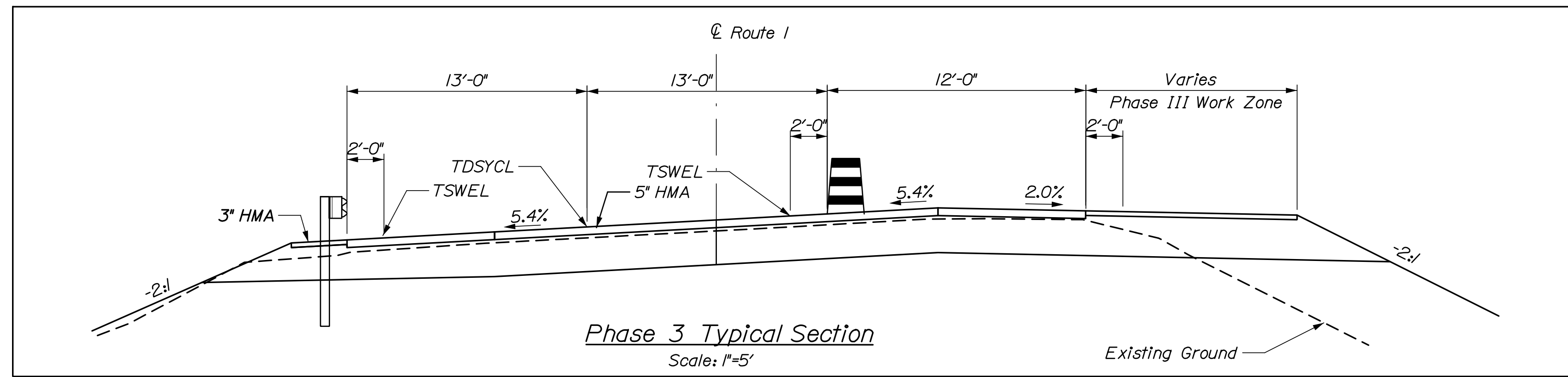
Filename: 021\_Traffic ControlPlan\_3.dgn

**LEGEND**

TSYCL = Temporary Solid Yellow Center Line

TSWEL = Temporary Solid White Edge Line

TSDYCL = Temporary Solid Double Yellow Center Line



**NOTES:**

- In Phase 3, a 26' minimum roadway width is measured from face of guardrail to face of drum. Lane width shall be 11' minimum.
- Sign locations shown are approximate. Actual locations shall be determined in the field and approved by the Resident.
- The Contractor shall cover all existing signs that conflict with work zone signs and signals.
- All traffic control shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways", (MUTCD), U.S.D.O.T., FHWA, latest edition.
- The Contractor shall remove all existing pavement markings that conflict with proposed markings.
- Temporary concrete barrier and temporary pavement shall be removed after phase 2 construction and replaced with loam and seed. Payment shall be incidental to the related Contract Pay Items.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2170900		BRIDGE PLANS	
CAPE NEDDICK BRIDGE		CAPE NEDDICK RIVER		YORK COUNTY		YORK	
PROJ. MANAGER		BY		DATE		SIGNATURE	
DESIGN-DETAILED		E. Davidson		6/18		P.E. NUMBER	
CHECKED-REVIEWED		L. Driscoll		6/18		DATE	
DESIGN-DETAILED		-		-		-	
REVISIONS 1		-		-		-	
REVISIONS 2		-		-		-	
REVISIONS 3		-		-		-	
REVISIONS 4		-		-		-	
FIELD CHANGES		-		-		-	
SHEET NUMBER		21		OF 29		BRIDGE NO. 2127	
WIN		21709.00		WIN		21709.00	



IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
CS-4	30"	15"		7"D			2	ORANGE	BLACK	1.875"	3.125 (6.25)	
G20-2	36"	18"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			2	SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2000			4.50 (9)	
R10-6	24"	36"					2				6.00 (12)	
R10-11a	24"	30"					2				5.00 (10)	
W1-6	48"	24"					2				8.00 (16)	
W3-3	36"	36"					2				9.00 (18)	
W13-1P	24"	24"					2				4.00 (8)	
W20-1 (AHEAD) (700 FT)	36"	36"					2				9.00 (18)	
W20-4	36"	36"					2				9.00 (18)	
W20-7	36"	36"					2				9.00 (18)	
W24-1L	36"	36"					1				9.00 (9)	
W24-1R	36"	36"					1				9.00 (9)	

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-2170900		WIN		21709.00		BRIDGE NO. 2127		BRIDGE PLANS			
CAPE NEDDICK BRIDGE				CAPE NEDDICK RIVER				YORK COUNTY				SIGN SUMMARY			
YORK				YORK COUNTY				SIGN SUMMARY				SIGN SUMMARY			
PROJ. MANAGER		DEVON EATON		BY		DATE		DESIGN-DETAILED		E. Farago		6/18		SIGNATURE	
CHECKED-REVIEWED		L. Driscoll		C. Helmick		6/18		R. Harf						P.E. NUMBER	
DESIGN-DETAILED														DATE	
REVISIONS 1															
REVISIONS 2															
REVISIONS 3															
REVISIONS 4															
FIELD CHANGES															
SHEET NUMBER												22		OF 29	

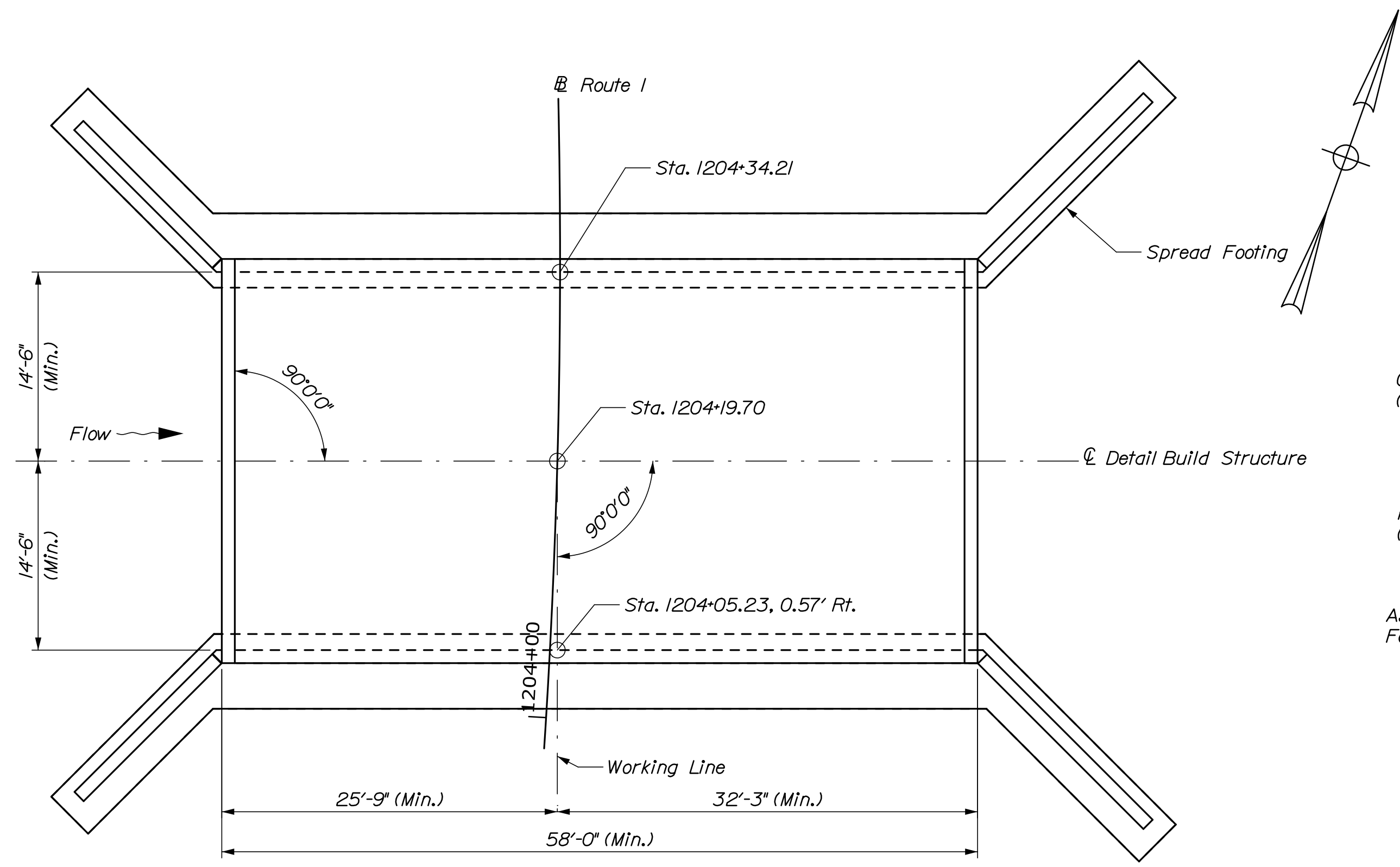


Date: 7/20/2018

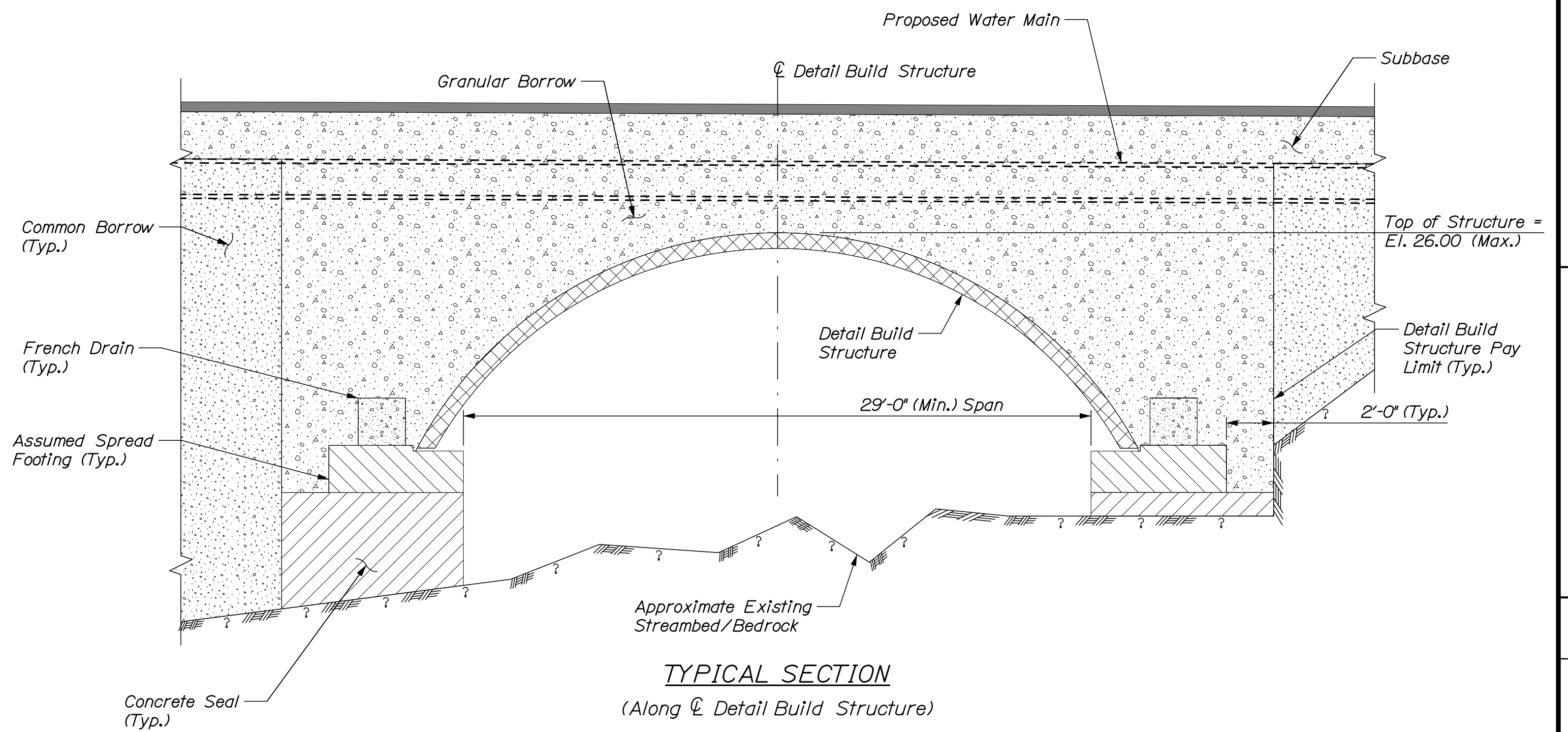
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Division:

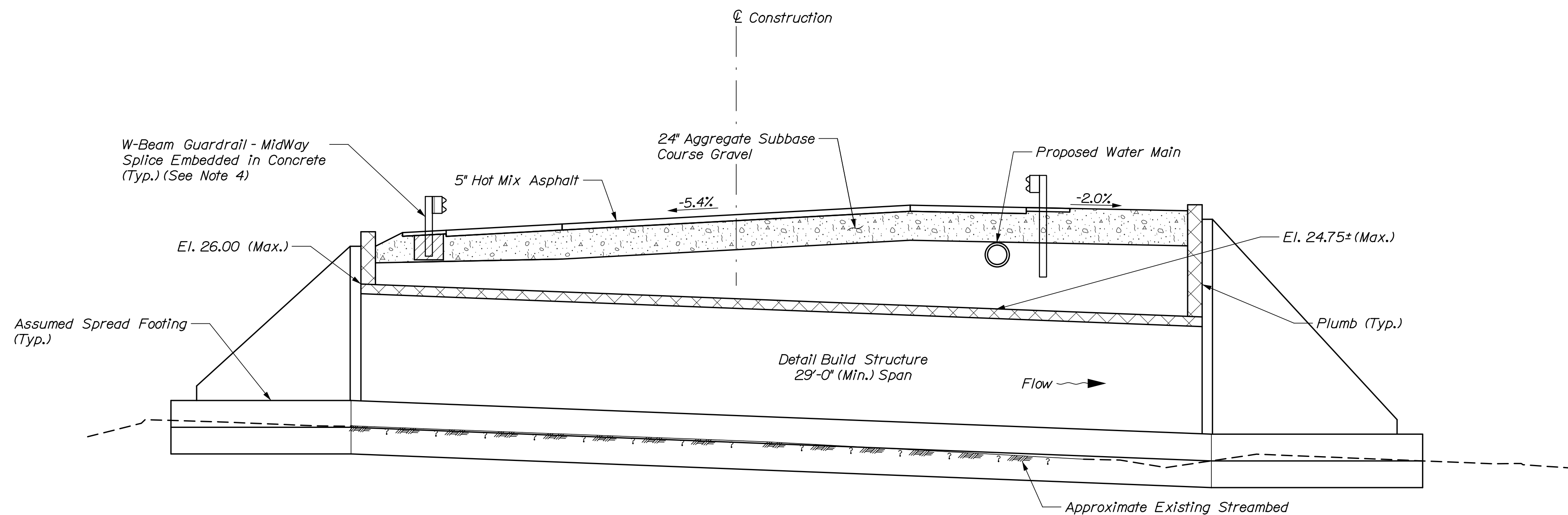
Filename: 023\_Typ.dgn



BRIDGE STRUCTURE DETAIL BUILD PLAN



TYPICAL SECTION  
(Along CL Detail Build Structure)



LONGITUDINAL CROSS SECTION

**DETAIL BUILD BRIDGE STRUCTURE NOTES:**

1. Structure and foundation are shown for illustrative purposes only. See Special Provision 531.
2. Construct French Drains behind each base of the Structure Detail Build and wingwalls in accordance with Standard Specification Section 512, French Drains. Daylight french drains through weepholes in the abutment and wingwalls. Coordinate daylight locations with Resident in field.
3. Foundations for detail build structure are shown for illustrative purposes only. Actual dimensions will vary based on the Contractor's proposed design concept. See Special Provision 531 and Project Geotechnical Report for additional information and design requirements.
4. For additional information see Standard Detail 606(20).
5. Foundation concrete shall be placed on bedrock, cleaned of all loose rock or soil. The bedrock subgrade shall be confirmed to be relatively level. Where the bedrock slope exceeds 4H:1V, the bedrock shall be benched to make level steps or made completely level. When prepared bedrock surface is below the bottom of the footing, concrete fill may be placed to fill the void.
6. Concrete seal not shown in plan view for clarity.
7. Concrete seal shall be incidental to the Detail Build Structure Pay Item.
8. The Detail Build Structure shall have a minimum hydraulic opening of 233 square feet.

STATE OF MAINE  
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STP-2170900  
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BRIDGE PLANS

PROJ. MANAGER	DEVON EATON	BY	DATE
DESIGN-DETAILED	E. Farago	C. Helmick	6/18
CHECKED-REVIEWED	L. Driscoll	R. Harf	6/18
DESIGN-DETAILED	-	-	-
REVISIONS 1	-	-	-
REVISIONS 2	-	-	-
REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

CAPE NEDDICK BRIDGE  
CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
BRIDGE PLAN AND DETAILS

SHEET NUMBER

23

OF 29

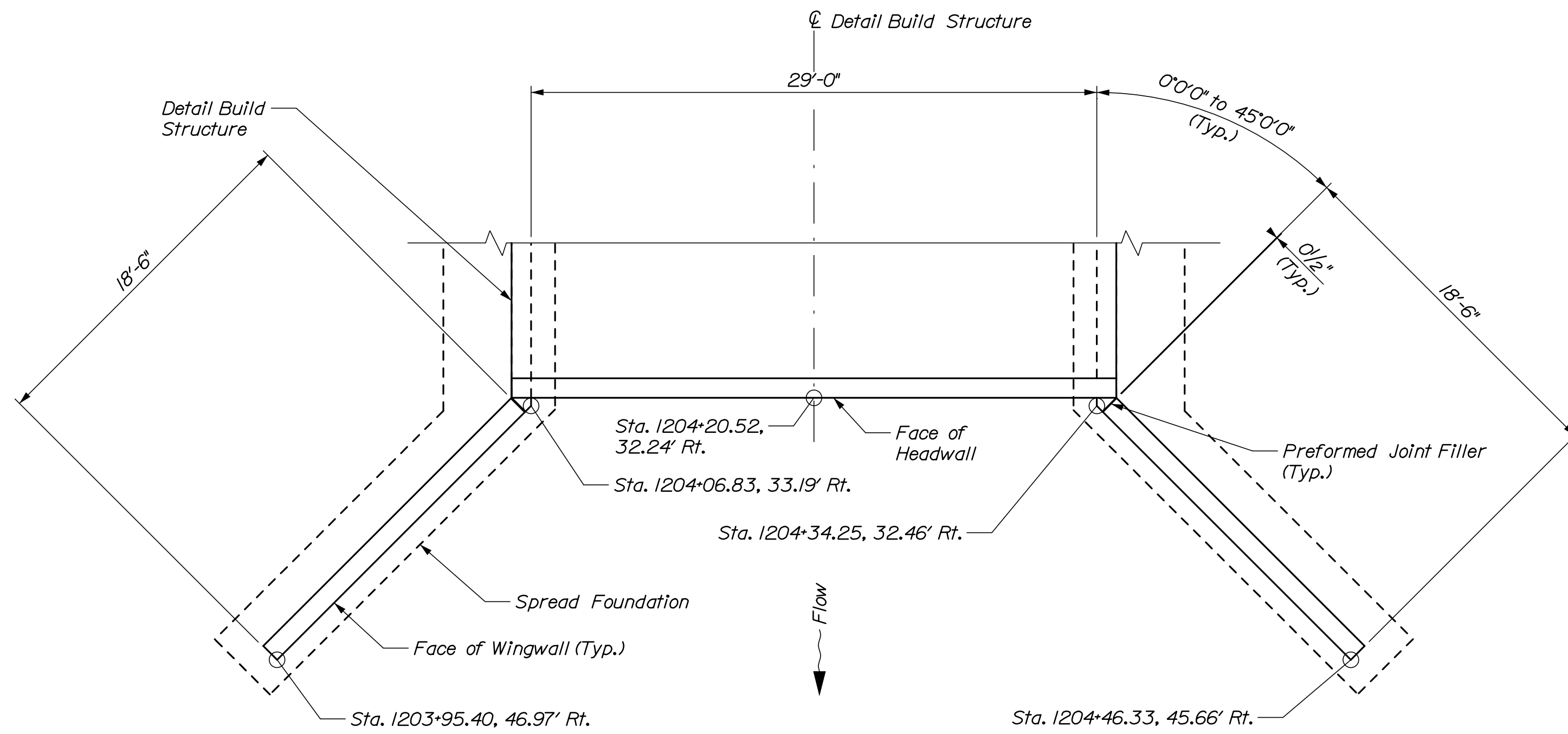


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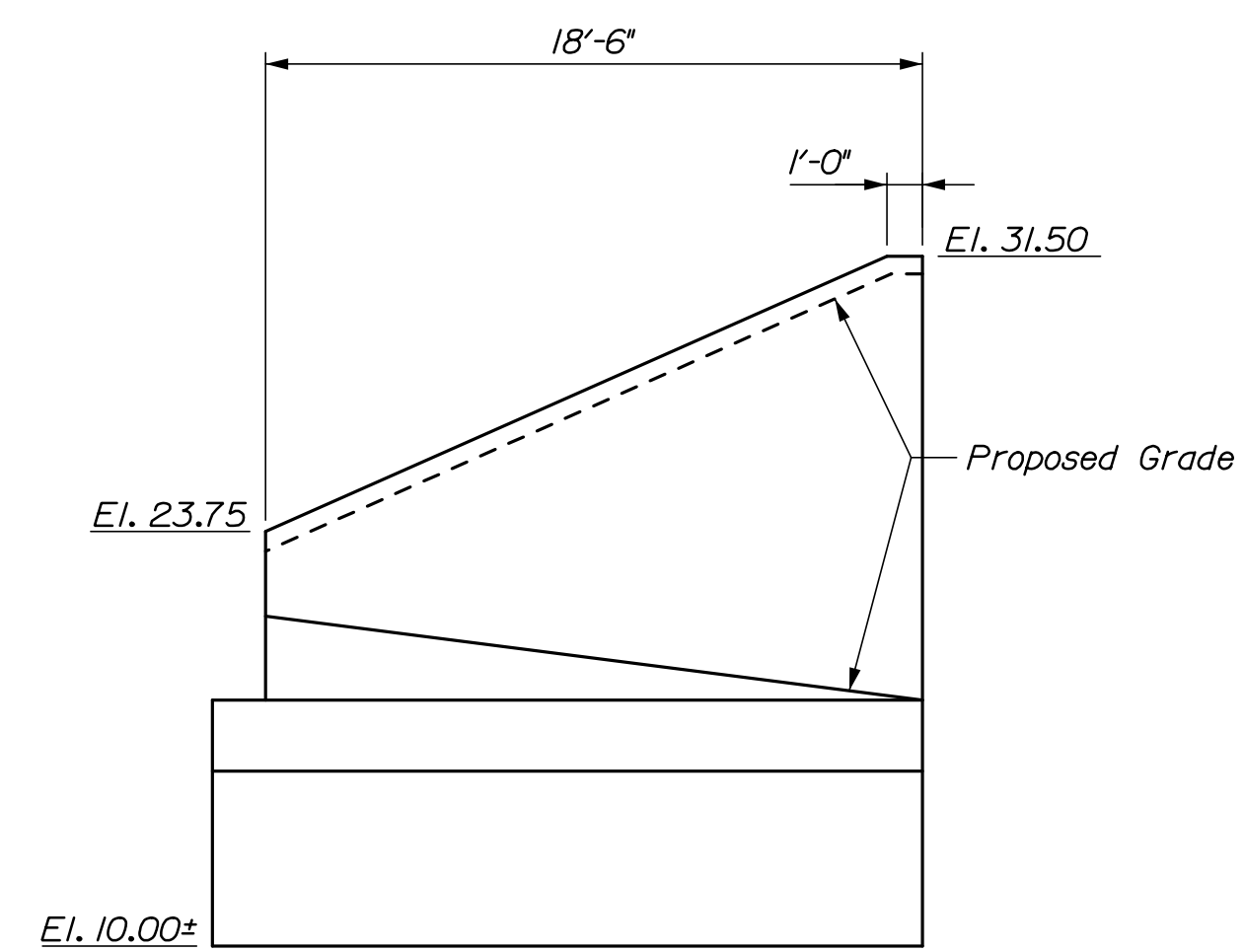
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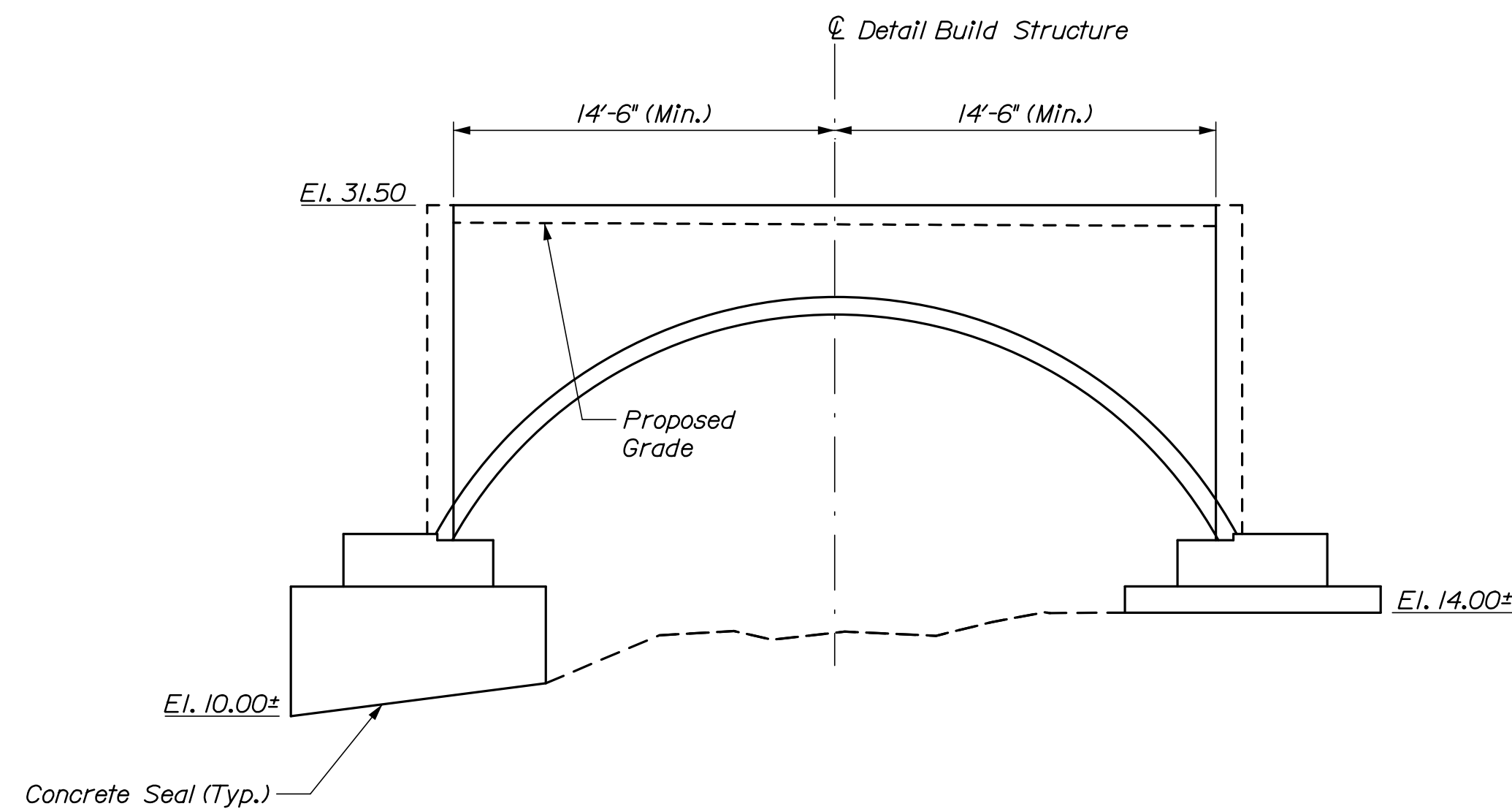
PLAN

**DETAIL BUILD BRIDGE HEADWALL AND WINGWALL NOTES:**

- Bottom of concrete seal is approximate. Top of bedrock is variable and shall be field verified.
- Detail build headwall and wingwall structure shown is for illustrative purposes only. See Special Provision 531 and Project Geotechnical Report.
- Wingwalls and their footings shall be backfilled with Granular Borrow. Backfill will not be measured for payment, but shall be included in the Detail Build Structure Pay Item.
- Refer to the Project Geotechnical Report for detail build wingwall geotechnical design requirements.

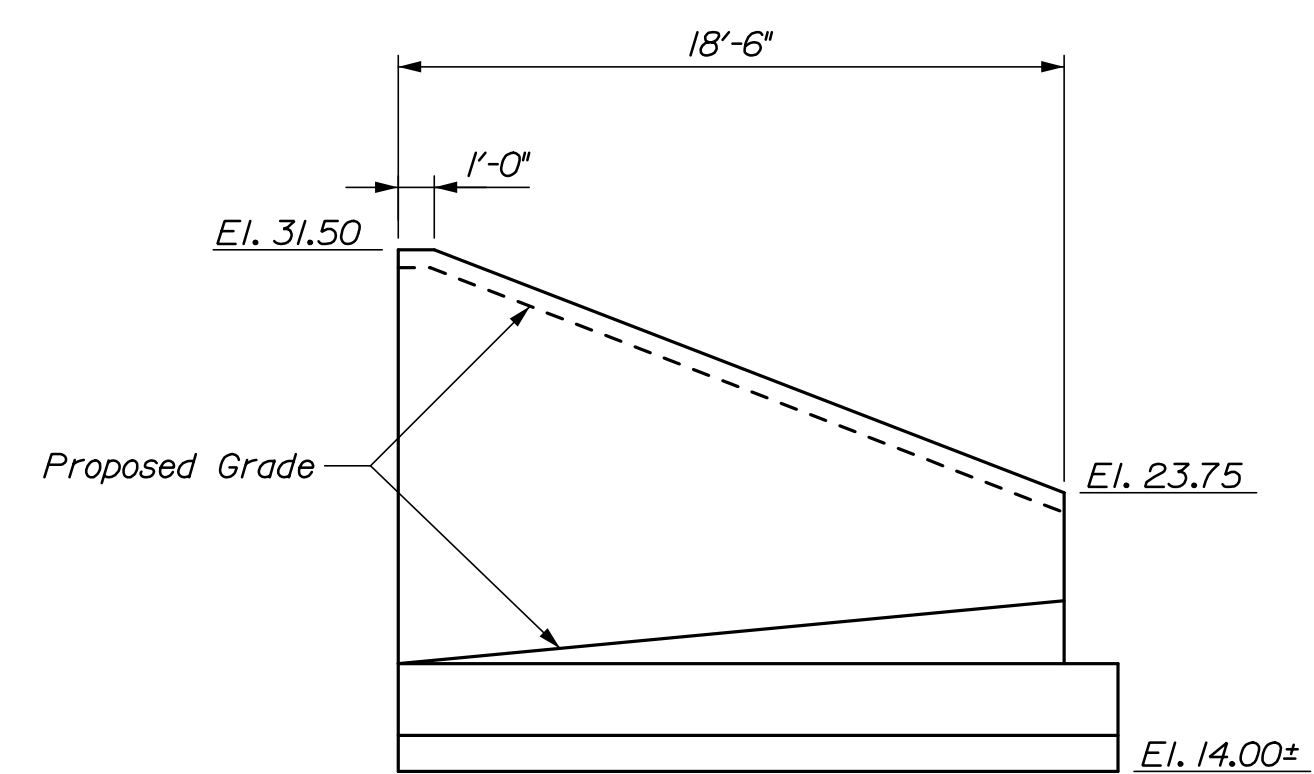


SOUTHEAST WINGWALL



EAST HEADWALL

ELEVATION



NORTHEAST WINGWALL

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
STP-2170900  
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WIN  
21709.00  
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PROJ. MANAGER	DEVON EATON	BY	DATE
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REVISIONS 1	-	-	-
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REVISIONS 3	-	-	-
REVISIONS 4	-	-	-
FIELD CHANGES	-	-	-

DESIGN-DETAILED	BY	DATE	SIGNATURE
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DESIGN-DETAILED			
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REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

CAPE NEDDICK BRIDGE  
CAPE NEDDICK RIVER  
YORK COUNTY  
YORK  
EAST HEADWALL  
AND WINGWALLS

SHEET NUMBER

24

OF 29

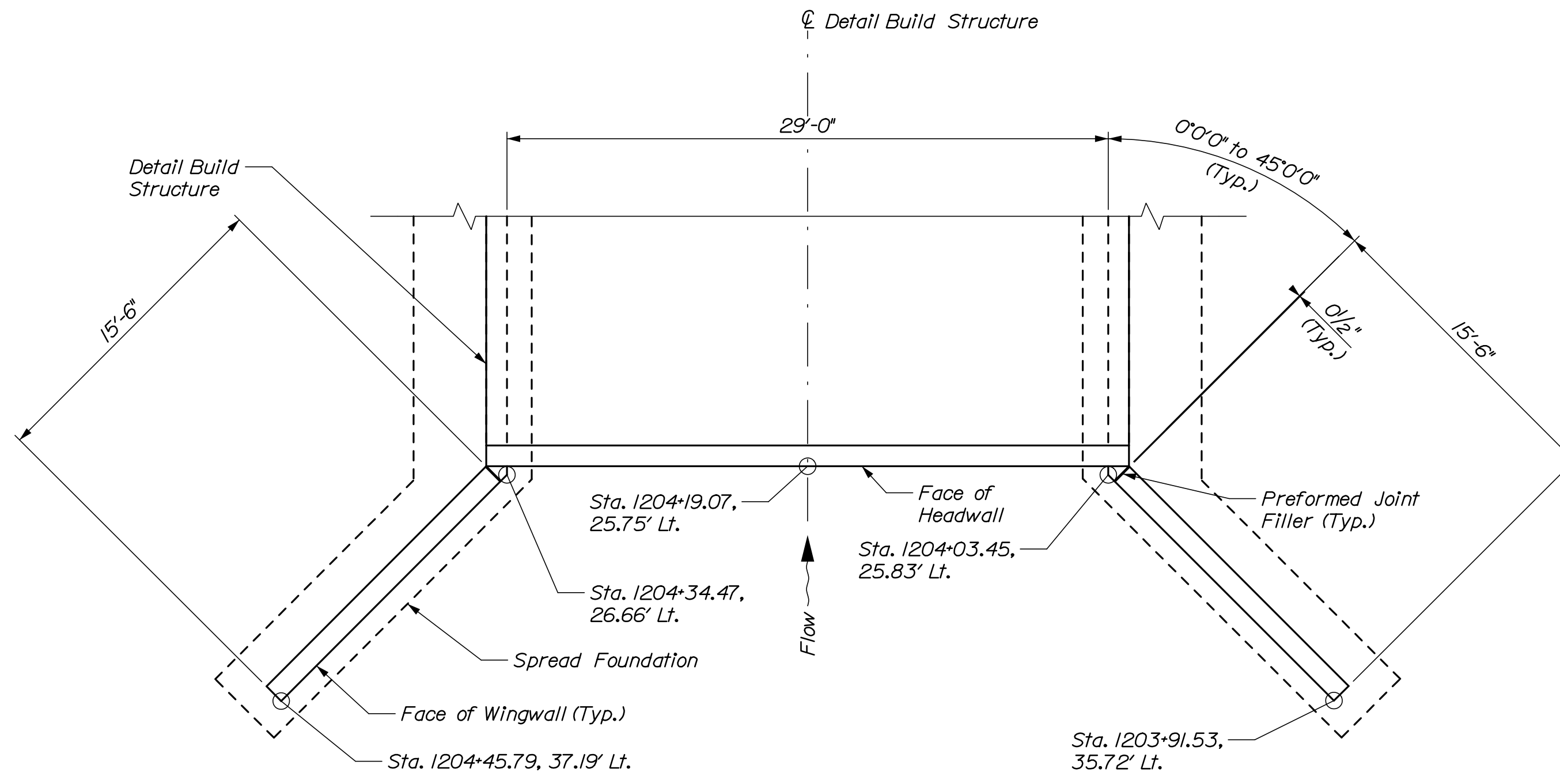


Date: 7/20/2018

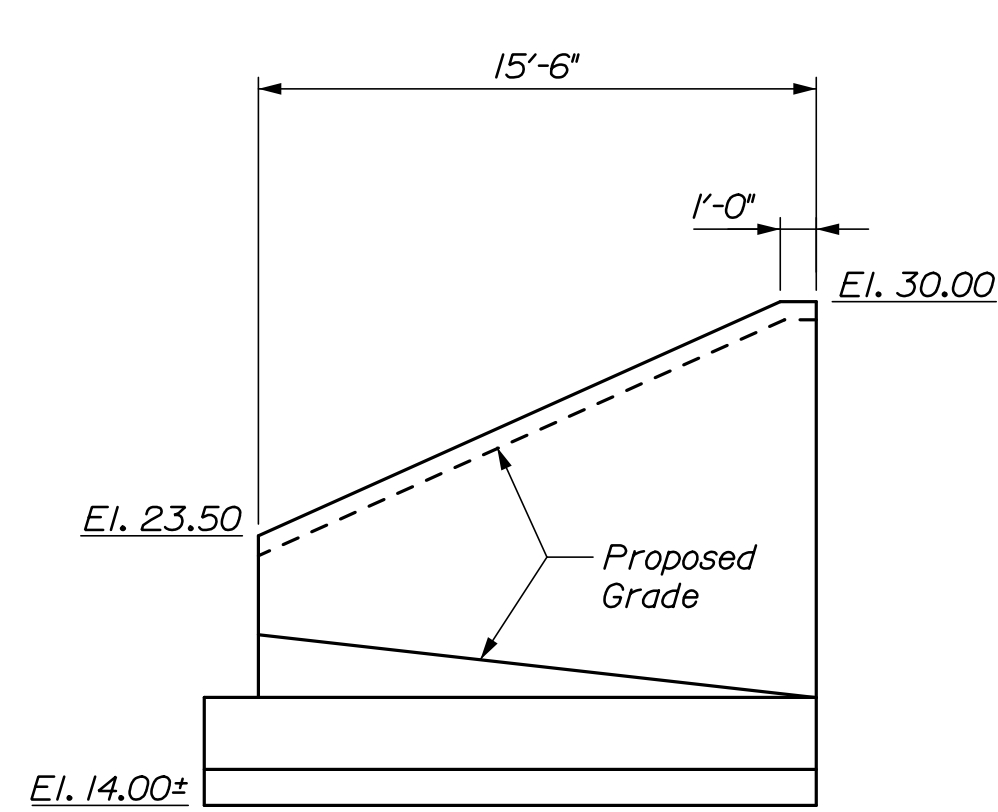
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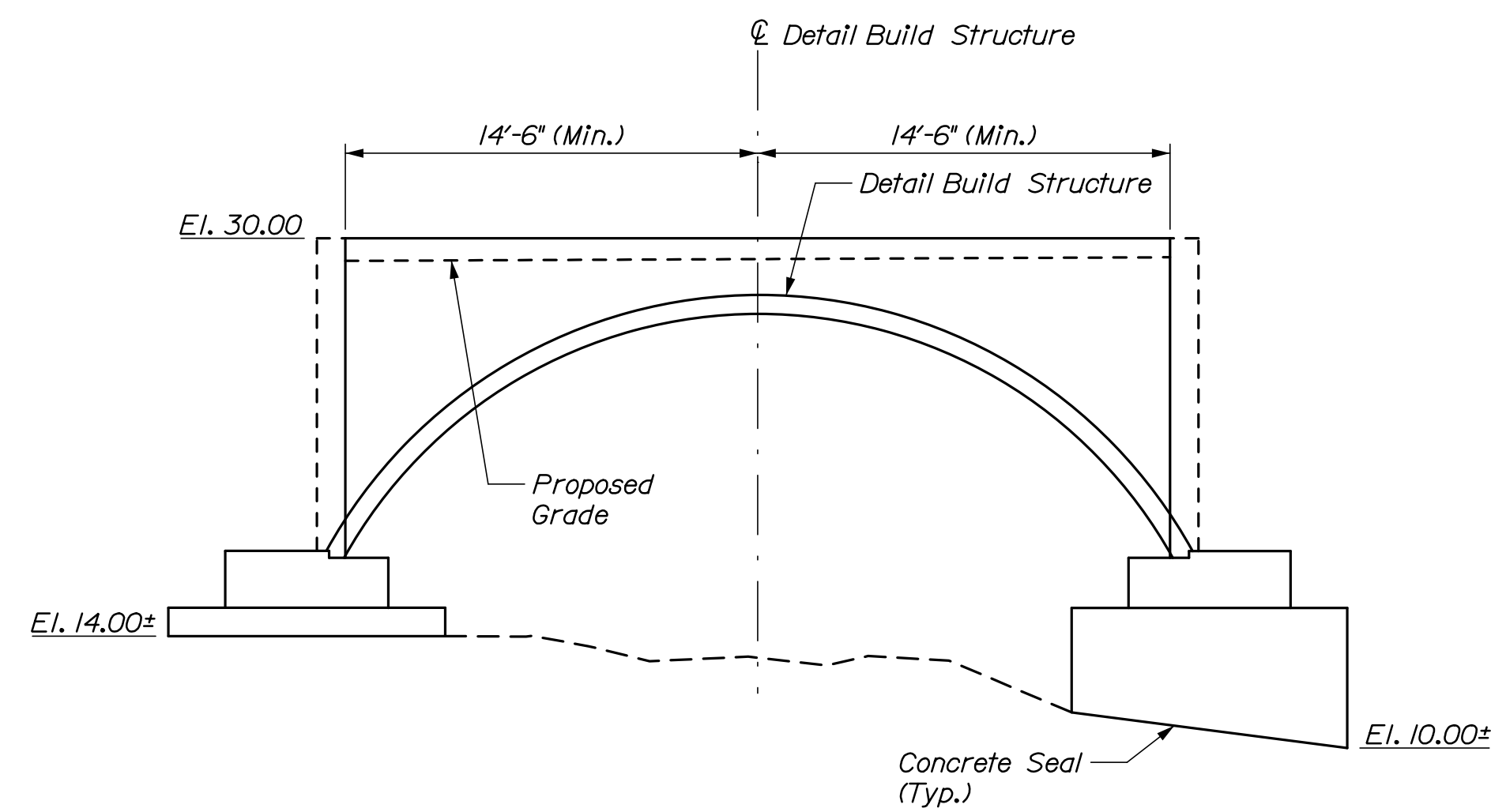
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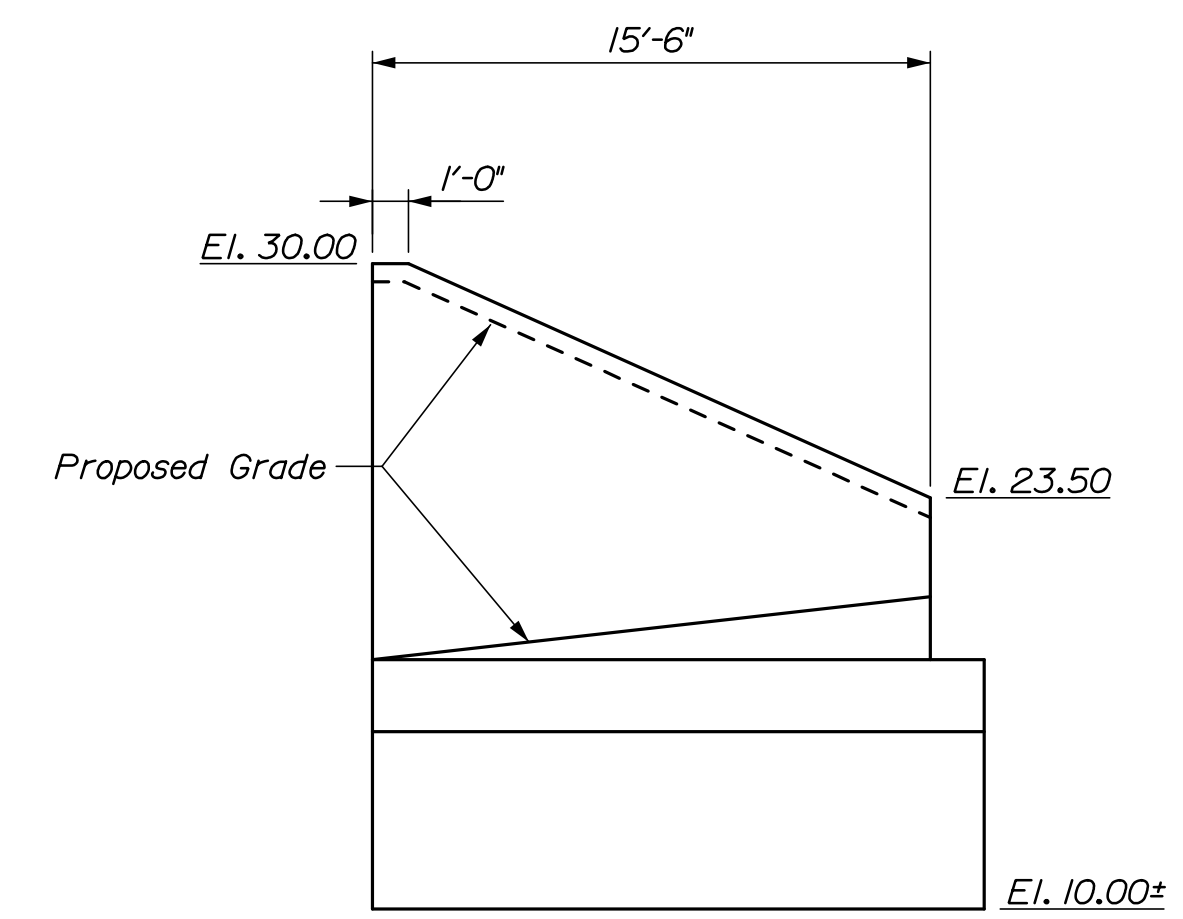
PLAN



NORTHWEST WINGWALL



WEST HEADWALL



SOUTHWEST WINGWALL

ELEVATION

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

STP-2170900

WIN

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BY

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REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

DATE

BY

DATE

PROJ. MANAGER







Town, County, State \_\_\_\_\_  
 Approx. Property Lines \_\_\_\_\_ P.L.  
 Existing Right of Way \_\_\_\_\_  
 Limits of Wrought Portion \_\_\_\_\_ L.O.W.P.  
 Control Of Access \_\_\_\_\_ C.O.A.  
 New Right of Way \_\_\_\_\_  
 New Easement \_\_\_\_\_  
 New Temporary Rights \_\_\_\_\_  
 New R/W Within Existing R/W \_\_\_\_\_

New R/W Along Existing R/W \_\_\_\_\_  
 Building \_\_\_\_\_  
 Trees Conifer \_\_\_\_\_  
 Tree Line \_\_\_\_\_  
 Water Edge \_\_\_\_\_  
 Ledge \_\_\_\_\_  
 Fence CHAIN LINK \_\_\_\_\_  
 Sign \_\_\_\_\_  
 Clearing Limit Line CLL \_\_\_\_\_  
 Bush Line \_\_\_\_\_  
 Rock/Boulder \_\_\_\_\_  
 Barb Wire \_\_\_\_\_  
 Well \_\_\_\_\_  
 Flag Pole \_\_\_\_\_  
 STOCKADE \_\_\_\_\_  
 Mailbox \_\_\_\_\_

**PLAN LEGEND**

Sanitary Sewer	Existing	Proposed
Telephone Line	Existing	Proposed
Electric Line	Existing	Proposed
Water Line	Existing	Proposed
Underdrain Line	Existing	Proposed
Gas Line	Existing	Proposed
Guardrail	Existing	Proposed
Culvert	Existing	Proposed
Traveled Way	Existing	Proposed
Ditch	Existing	Proposed
Catch Basin	Existing	Proposed
Manhole	Existing	Proposed
Sewer Manhole	Existing	Proposed
Utility Pole	Existing	Proposed
Fire Hydrant	Existing	Proposed
Curbing	Existing	Proposed

Cut Line \_\_\_\_\_  
 Stone Wall \_\_\_\_\_  
 Baseline \_\_\_\_\_  
 Monument \_\_\_\_\_  
 Iron Rod Found \_\_\_\_\_  
 Replacement Pin Set \_\_\_\_\_  
 Fill Line \_\_\_\_\_  
 Retaining Wall \_\_\_\_\_  
 Traverse Point \_\_\_\_\_  
 Pipe Found \_\_\_\_\_

STATE OF MAINE  
 REGISTRY OF DEEDS  
 COUNTY \_\_\_\_\_  
 RECEIVED \_\_\_\_\_  
 at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and recorded in  
 Plan Book \_\_\_\_\_, Page \_\_\_\_\_  
 Attest: \_\_\_\_\_ REGISTER

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ADJACENT PROPERTY OWNERS.

25 0 25 50 75 100  
 Scale of Feet

GRID NORTH

CONTROL INFORMATION  
 HORIZONTAL DATUM - US STATE PLANE NAD83(2011)  
 ZONE - MAINE 2000 WEST ZONE  
 VERTICAL DATUM - NAVD88  
 COMBINED FACTOR - 0.9999832

**BASILINE REFERENCE INFORMATION (EXISTING VS DESIGN) COMMON POINTS**

EXISTING BASELINE STATION	NORTHING	EASTING
202+04.67	130785.26	918985.80
205+49.63	131115.09	918904.17
DESIGN BASELINE STATION	NORTHING	EASTING
1202+04.67	130784.87	918986.68
1205+49.63	131114.74	918905.26

ALL TAKINGS SHOWN ON THIS PLAN ARE REFERENCED TO THE BASELINE AS DEFINED ON STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP FOR STATE HIGHWAY "1", FEDERAL AID PROJECT NO. FR-F-01-1(60), D.O.T. FILE NO. 16-277, AND AS DESCRIBED IN THE NOTICE OF LAYOUT AND TAKING RECORDED AT THE Y.C.R.D. IN BOOK 2974, PAGE 246.

NOTE:  
 ERROR IN THE 1982 PLAN, D.O.T. FILE NO. 16-277, SHEET 14 OF 20, P.C. STA. 203+04.67 HAS BEEN CORRECTED TO P.C. STA. 202+04.67

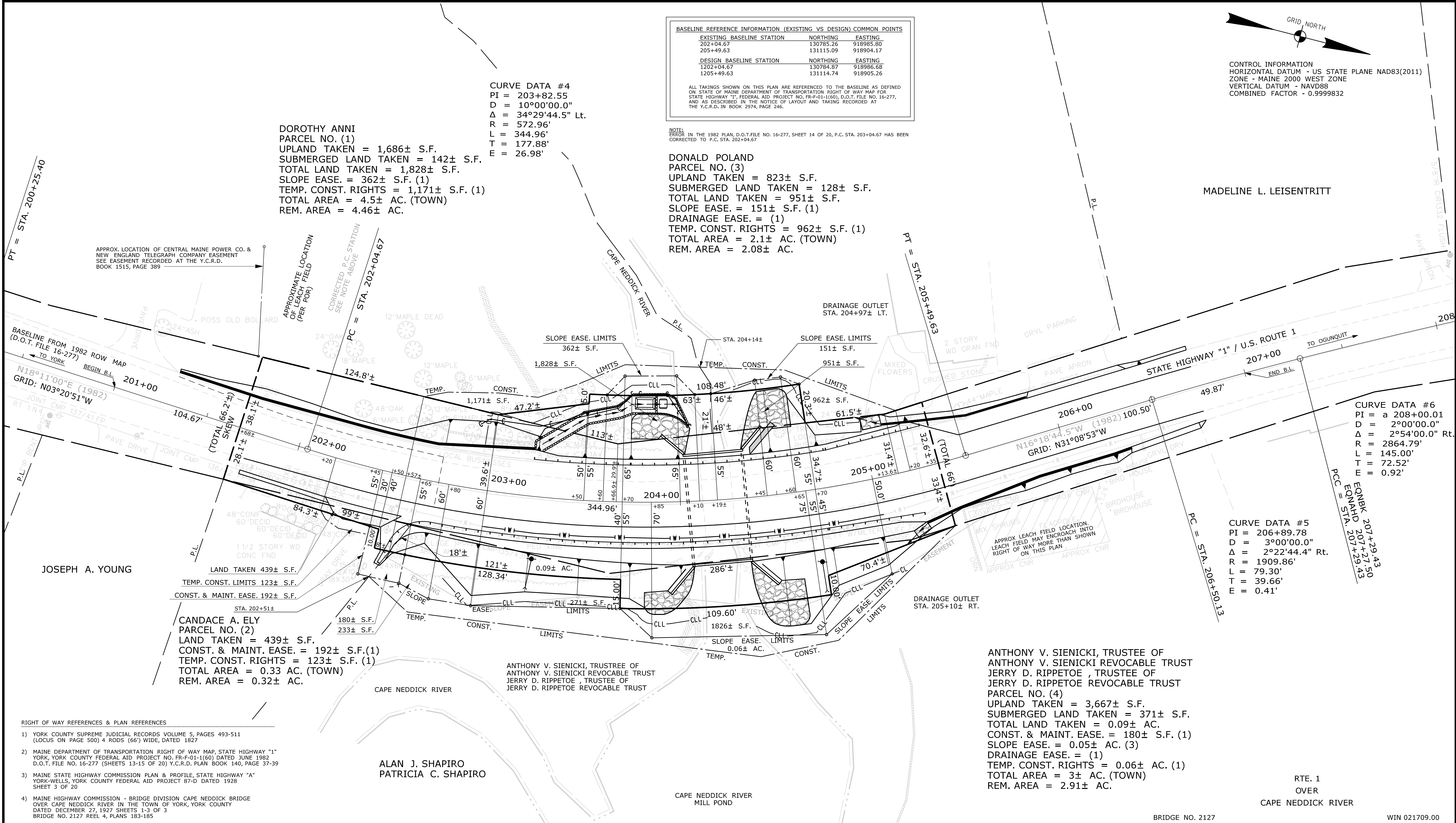
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 PI = 203+82.55  
 D = 10°00'00.0"  
 Δ = 34°29'44.5" Lt.  
 R = 572.96'  
 L = 344.96'  
 T = 177.88'  
 E = 26.98'

**DOROTHY ANNI PARCEL NO. (1)**  
 UPLAND TAKEN = 1,686± S.F.  
 SUBMERGED LAND TAKEN = 142± S.F.  
 TOTAL LAND TAKEN = 1,828± S.F.  
 SLOPE EASE. = 362± S.F. (1)  
 TEMP. CONST. RIGHTS = 1,171± S.F. (1)  
 TOTAL AREA = 4.5± AC. (TOWN)  
 REM. AREA = 4.46± AC.

**DONALD POLAND PARCEL NO. (3)**  
 UPLAND TAKEN = 823± S.F.  
 SUBMERGED LAND TAKEN = 128± S.F.  
 TOTAL LAND TAKEN = 951± S.F.  
 SLOPE EASE. = 151± S.F. (1)  
 DRAINAGE EASE. = (1)  
 TEMP. CONST. RIGHTS = 962± S.F. (1)  
 TOTAL AREA = 2.1± AC. (TOWN)  
 REM. AREA = 2.08± AC.

**CURVE DATA #6**  
 PI = a 208+00.01  
 D = 2°00'00.0"  
 Δ = 2°54'00.0" Rt.  
 R = 2864.79'  
 L = 145.00'  
 T = 72.52'  
 E = 0.92'

**CURVE DATA #5**  
 PI = 206+89.78  
 D = 3°00'00.0"  
 Δ = 2°22'44.4" Rt.  
 R = 1909.86'  
 L = 79.30'  
 T = 39.66'  
 E = 0.41'



- RIGHT OF WAY REFERENCES & PLAN REFERENCES**
- 1) YORK COUNTY SUPREME JUDICIAL RECORDS VOLUME 5, PAGES 493-511 (LOCUS ON PAGE 500) 4 RODS (66') WIDE, DATED 1827
  - 2) MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP, STATE HIGHWAY "1" YORK, YORK COUNTY FEDERAL AID PROJECT NO. FR-F-01-1(60), DATED JUNE 1982 D.O.T. FILE NO. 16-277 (SHEETS 13-15 OF 20) Y.C.R.D. PLAN BOOK 140, PAGE 37-39
  - 3) MAINE STATE HIGHWAY COMMISSION PLAN & PROFILE, STATE HIGHWAY "A" YORK-WELLS, YORK COUNTY FEDERAL AID PROJECT 87-D DATED 1928 SHEET 3 OF 20
  - 4) MAINE HIGHWAY COMMISSION - BRIDGE DIVISION CAPE NEDDICK BRIDGE OVER CAPE NEDDICK RIVER IN THE TOWN OF YORK, YORK COUNTY DATED DECEMBER 27, 1927 SHEETS 1-3 OF 3 BRIDGE NO. 2127 REEL 4, PLANS 183-185

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	R.M.C.	C.W.K.
FINAL RIGHT OF WAY	R.M.C.	N.T.A.
AREAS	R.M.C.	N.T.A.

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460  
 YORK  
 RIGHT OF WAY MAP

REVISIONS			PLAN FILED IN PLAN BOOK				PAGE COUNTY RECORD			
NO.	DATE	DESCRIPTION	BY	NO.	GRANTOR	PAGE	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT  
 COMMISSIONER  
 JOYCE NOEL TAYLOR  
 CHIEF ENGINEER  
 DATE \_\_\_\_\_

To the best of my knowledge and belief the Highway Right of Way lines depicted hereon are based upon a survey conforming to the Standards of Practice promulgated by the Maine Board of Licensure for Professional Land Surveyors 02-360 CMR, Chapter 90; Exceptions: (1) No separate survey report, (2) Monumentation only as shown on plan. See sheet X of this plan set for coordinates. (3) Other boundary lines, including lines between abutters are approximate and for general reference purposes only.

BRIDGE NO. 2127 WIN 021709.00

STATE HIGHWAY "1"  
 U.S. ROUTE 1  
 YORK FEDERAL AID PROJECT NO. STP-2170(90)  
 YORK COUNTY  
 OCTOBER 2017  
 SCALE 1" = 25'

RIGHT-OF-WAY MAP  
 SHEET 1 OF 1  
 D.O.T. FILE NO. 16-524

SHEET NUMBER  
**29**  
 OF 29

Username: Ronald.M.Carpentier Date: 7/18/2018

Division: ROW

Filename: ... \00\ROW\MSTA029\_RWPLAN1.dgn