

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## LEBANON YORK COUNTY FORD BRIDGE OVER BRANCH OF LITTLE RIVER FALL RD. PROJECT NO. BR-1787(300)X PROJECT LENGTH 0.025 mi. BRIDGE NO. 1219

**SPECIFICATIONS**

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Fifth Edition 2010.

**DESIGN LOADING**

Live Load \_\_\_\_\_ HL - 93

**TRAFFIC DATA**

Current (2012) AADT	330
Future (2022) AADT	360
Future (2032) AADT	400
DHV - % of AADT	13
Design Hour Volume	52
Heavy Trucks (% of AADT)	6
Heavy Trucks (% of DHV)	3
Directional Distribution (% of DHV)	51
18 kip Equivalent P 2.0	9
18 kip Equivalent P 2.5	8
Design Speed (mph)	45

**HYDROLOGIC DATA**

Drainage Area	17.96 sq mi
Design Discharge (Q50)	942 cfs
Check Discharge (Q100)	1079.1 cfs
Headwater Elevation (Q50)	295.67 ft
Headwater Elevation (Q100)	296.01 ft
Discharge Velocity (Q50)	6.37 fps
Discharge Velocity (Q100)	6.96 fps
Headwater Elevation (Q1.1)	292.90 ft
Discharge Velocity (Q1.1)	2.26 fps
Headwater Elevation (Q25)	295.32 ft

**MATERIALS**

Concrete:  
 Barriers, Curbs, Sidewalks & Transition Barriers \_\_\_\_\_ Class "LP"  
 All Other \_\_\_\_\_ Class "A"  
 Reinforcing Steel \_\_\_\_\_ ASTM A 615/A 615M, Grade 60

Structural Steel:  
 All Material (except as noted) \_\_\_\_\_ ASTM A 709, Grade 36  
 Anchor Rods \_\_\_\_\_ ASTM F1554, Grade 36

**BASIC DESIGN STRESSES**

Concrete:  
 Class "A" \_\_\_\_\_ f'c = 4,350 psi  
 Class "LP" \_\_\_\_\_ f'c = 5,075 psi

Reinforcing Steel \_\_\_\_\_ f<sub>y</sub> = 60,000 psi

Structural Steel:  
 ASTM A 709, Grade 50W \_\_\_\_\_ F<sub>y</sub> = 50,000 psi  
 ASTM A 709, Grade 36 \_\_\_\_\_ F<sub>y</sub> = 36,000 psi

**LIST OF DRAWINGS**

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**UTILITIES**

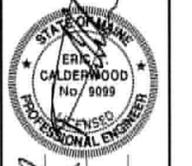
Central Maine Power Company

**MAINTENANCE OF TRAFFIC**

Detour traffic from Little River Rd to Route 11/202 to Philbrick Rd/Fall Rd

<b>PROJECT LOCATION:</b>	0.2 miles East along Fall Rd. from Little River Rd. (1.8 miles SW of Rt. 11/202)
<b>PROGRAM AREA:</b>	Bridge Program
<b>OUTLINE OF WORK:</b>	BRIDGE ABUTMENT AND SUPERSTRUCTURE REHABILITATION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	<i>[Signature]</i>	11/16/12
COMMISSIONER		1/9/12
CHIEF ENGINEER		<i>[Signature]</i>



SIGNATURE	P.E. NUMBER	DATE
<i>[Signature]</i>	9099	DECEMBER 2011

PROGRAM	BRIDGE PROGRAM
PROJECT MANAGER	B. CONDON
DESIGNER	O. BRAUN
CONSULTANT	CALDERWOOD ENGINEERING
PROJECT PRESENT	S. PAL
CONTRACTOR	
PROJECT COMPLETION DATE	

LEBANON  
FORD BRIDGE  
TITLE SHEET

SHEET NUMBER  
**1**  
OF 17

Filename: \\017873.00\bridge\001\_Title.dgn  
 Division: BRIDGE  
 Username: Eric Calderwood  
 Date: 11/5/2012

BR-1787(300)X WIN 17873.00

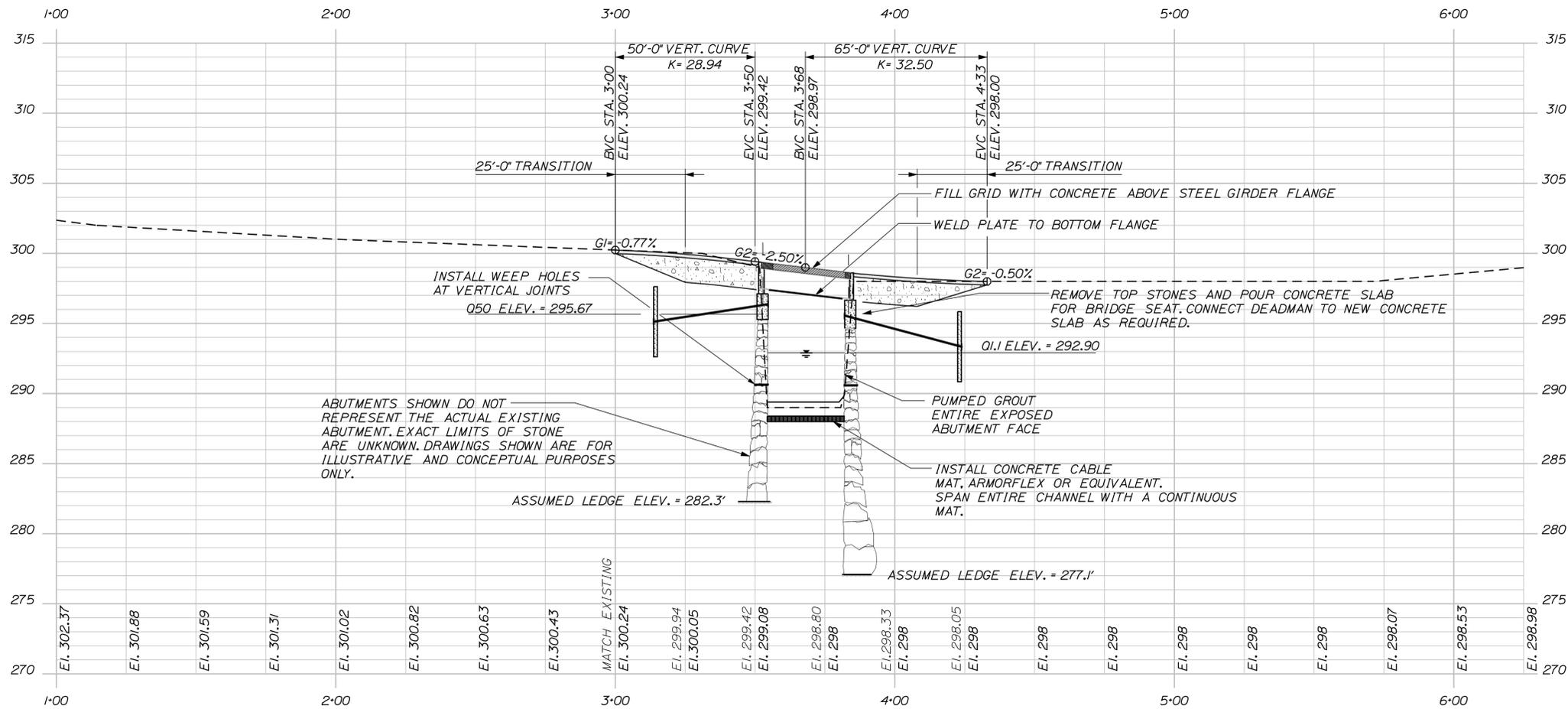
ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	5	EA
201.24	REMOVING STUMP	5	EA
202.127	REMOVE EXISTING BITUMINOUS PAVEMENT (200 SY)	1	LS
202.21	REMOVE EXISTING SUBSTRUCTURE	15	CY
203.20	COMMON EXCAVATION	215	CY
206.082	STRUCTURAL EARTH EXC. - MAJOR STRUCTURES	25	CY
304.10	AGGR SUBB COURSE - GRAVEL	105	CY
403.210	HOT MIX ASPHALT 9.5MM HMA SURFACE	20	T
403.210	HOT MIX ASPHALT 9.5MM HMA BASE	20	T
409.15	BITUMINOUS TACK COAT - APPLIED	6	G
502.112	STRUCTURAL CONCRETE ANCHOR SYSTEM (5 CY)	1	LS
502.21	STRUCTURAL CONCRETE ABUT & RET WALL	25	CY
502.2481	PUMPED GROUT	1	LS
502.49	STRUCTURAL CONCRETE CURBS & SW (5 CY)	1	LS
502.83	PRECAST BLOCK MAT	1250	SF
503.12	REINFORCING STEEL, FAB & DEL	1600	LB
503.13	REINFORCING STEEL, PLACING	1600	LB
504.70	STRUCTURAL STEEL FABRICATED & DELIVERED (2500 LBS)	1	LS
504.71	STRUCTURAL STEEL ERECTION (2500 LBS)	1	LS
506.144	FIELD PAINTING NEW & EXISTING STRUCTURAL STEEL	1	LS
506.17	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	1	LS
511.07	COFFERDAM - ABUTMENT NO. 1	1	LS
511.07	COFFERDAM - ABUTMENT NO. 2	1	LS
515.20	PROTECTIVE COATING FOR CONCRETE SURFACES	35	SY
517.61	SHOTCRETE	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE 1 (60 LF)	1	LS
531.60	BRIDGE STRUCTURE - REMOVE AND RESET (40,000 LBS)	1	LS
606.23	GUARDRAIL TYPE 3C	37.5	LF
606.232	GUARDRAIL TYPE 3C - OVER 15 FT RADIUS	50	LF
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	4	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.74	GUARDRAIL TYPE 3 - SINGLE RAIL BRIDGE MOUNTED	125	LF
610.08	PLAIN RIPRAP	55	CY
615.07	LOAM	5	CY
618.1401	SEEDING METHOD #2 - PLAN QUANTITY	1	UN
619.12	MULCH	1	UN
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INC OPERATOR)	15	HR
631.14	GRADER (INC OPERATOR)	15	HR
631.15	ROLLER EARTH BASE CRS. (INC OPERATOR)	10	HR
631.171	TRUCK-SMALL (INC OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	TYPE III BARRICADES	6	EA
652.33	DRUM	5	EA
652.34	CONE	5	EA
652.35	CONSTRUCTION SIGNS	198	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES (61 CD)	1	LS
656.75	TEMP. SOIL EROSION AND WATER POLL. CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

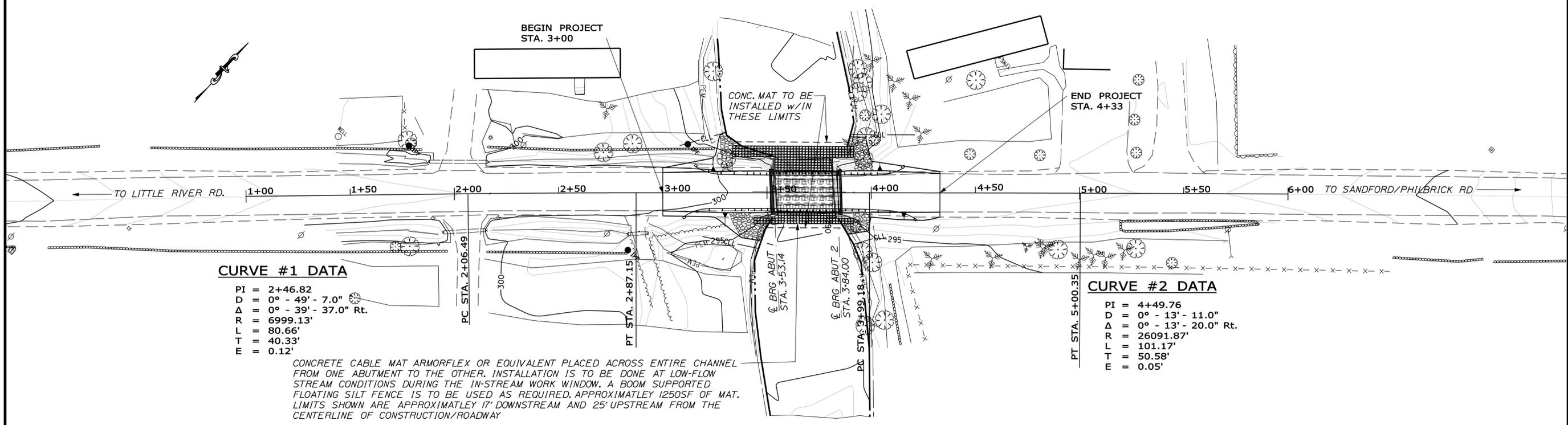
- All Utility Facilities shall be adjusted by the respective Utilities unless otherwise noted.
- For Easements, Construction Limits, and Right-Of-Way lines, refer to Right of Way Map.
- The Clearing Limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to related Contract items.
- Place Loam 2' deep on all side slopes.
- Do not excavate for Aggregate Subbase Course where Existing Material is suitable as determined by the Resident.
- 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' or less thick will be made under appropriate Equipment rental items.
- Stones which cannot be rolled or compacted into the surface of the Shoulder shall be removed by Hand Raking. Payment for Hand Raking will be considered incidental to Item 304.10, Aggregate Subbase Course - Gravel.
- Two Flexible Reflectorized Guardrail Markers shall be installed at each leading Guardrail End and two at each trailing Guardrail End.
- 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 appropriate Contract items.
- Protective Coating for Concrete Surfaces shall be applied to the following areas:  
All exposed Surfaces of Concrete Curbs and Sidewalks,  
Fascia down to Drip Notch,  
Concrete Wearing Surfaces,  
Top of Abutment Backwalls and to 1' below the top of Backwalls on the back side.
- 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:
  - If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.
  - If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.
  - 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.
- The Contractor shall submit a Bridge Removal/Reset Plan to the Resident at least 30 business days prior to the start of the relocation work. The plan shall outline the methods and equipment to be used to relocate the bridge and dispose of all material cleaned off of the bridge. The plan shall also outline the method used to reset the bridge after rehabilitation and in stream work is complete. No work related to the relocation of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Removal/Reset Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting, and finalizing, the Removal/Reset Plan will be considered incidental to the bridge relocation pay item.
- The existing bridge shall be removed and rehabilitated to the limits indicated in the plans. Once the rehabilitation and the in stream work is complete the Contractor is responsible for resetting the existing bridge and the removal and appropriate disposal of components not re-used in the completed work. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Lead paint is not expected to be found on the existing structure. Payment for all labor, materials, equipment and other costs required to remove, rehabilitate, and reset the existing bridge will be considered incidental to the bridge removal pay item.
- The Contractor shall submit an Abutment Rehabilitation Plan to the Resident at least 30 business days prior to the start of the rehabilitation work. The plan shall outline the methods and equipment to be used for the painting and pumped grout rehabilitation to the existing abutments. It shall also include cofferdam details and containment methods. No work related to the rehabilitation of the abutments shall be undertaken by the Contractor until MaineDOT has reviewed the Abutment Rehabilitation Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting, and finalizing, the Abutment Rehabilitation Plan will be considered incidental to related items.
- Payment for the removal and storage and replacement of the stream bed material will be paid for under Item No. 203.20 Common Excavation. Blending and wasting of excess stream bed material in the roadway base will be considered incidental to item number 502.83 Precast Block Mat, no separate payment shall be made.
- Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php>.
- The project Geotechnical Series 100 Report for the Rehabilitation of Ford Bridge, Lebanon, Maine, MaineDOT Soils Report No. 2011-114, August 17, 2011 may be accessed at the MaineDOT web address.
- Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. Maine DOT will not be responsible for the Bidders' and Contractors' 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 the boring locations.
- During construction the road will be closed to traffic for a time period specified in the Special Provisions.
- Prior to submitting a bid the Contractor shall conduct a site inspection.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 1219		BRIDGE PLANS	
FORD BRIDGE		YORK COUNTY		WIN		17873.00	
OVER LITTLE RIVER		LEBANON		BR-17873(30)X			
ESTIMATED QUANTITIES		SHEET NUMBER		2		OF 17	
PROJ. MANAGER	L. TIMBERLAKE	BY	DATE	DESIGN-DETAILED	CHK	NOV. 2011	SIGNATURE
CHECKED-REVIEWED	GM	CHK	DEC. 2011	DESIGN-REVIEWED	JUH		
DESIGN-DETAILED	GM	CHK		DESIGN-REVIEWED	JUH		
DESIGN-DETAILED	GM	CHK		DESIGN-REVIEWED	JUH		
REVISIONS 1				REVISIONS 1			P.E. NUMBER
REVISIONS 2				REVISIONS 2			9099
REVISIONS 3				REVISIONS 3			11/2/11
REVISIONS 4				REVISIONS 4			DATE
FIELD CHANGES				FIELD CHANGES			





PROFILE - FORD BRIDGE OVER LITTLE RIVER-LEBANON



**CURVE #1 DATA**

- PI = 2+46.82
- D = 0° - 49' - 7.0"
- Δ = 0° - 39' - 37.0" Rt.
- R = 6999.13'
- L = 80.66'
- T = 40.33'
- E = 0.12'

**CURVE #2 DATA**

- PI = 4+49.76
- D = 0° - 13' - 11.0"
- Δ = 0° - 13' - 20.0" Rt.
- R = 26091.87'
- L = 101.17'
- T = 50.58'
- E = 0.05'

CONCRETE CABLE MAT ARMORFLEX OR EQUIVALENT PLACED ACROSS ENTIRE CHANNEL FROM ONE ABUTMENT TO THE OTHER. INSTALLATION IS TO BE DONE AT LOW-FLOW STREAM CONDITIONS DURING THE IN-STREAM WORK WINDOW. A BOOM SUPPORTED FLOATING SILT FENCE IS TO BE USED AS REQUIRED. APPROXIMATELY 1250SF OF MAT. LIMITS SHOWN ARE APPROXIMATELY 17' DOWNSTREAM AND 25' UPSTREAM FROM THE CENTERLINE OF CONSTRUCTION/ROADWAY

SITE PLAN

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		017873.00
BRIDGE NO. 1219		WIN 17873.00
BRIDGE PLANS		
	SIGNATURE 9099	P.E. NUMBER 17/2011
		DATE
FORD BRIDGE OVER LITTLE RIVER YORK COUNTY LEBANON		
GENERAL PLAN AND PROFILE		
SHEET NUMBER <b>3</b>		
OF 17		

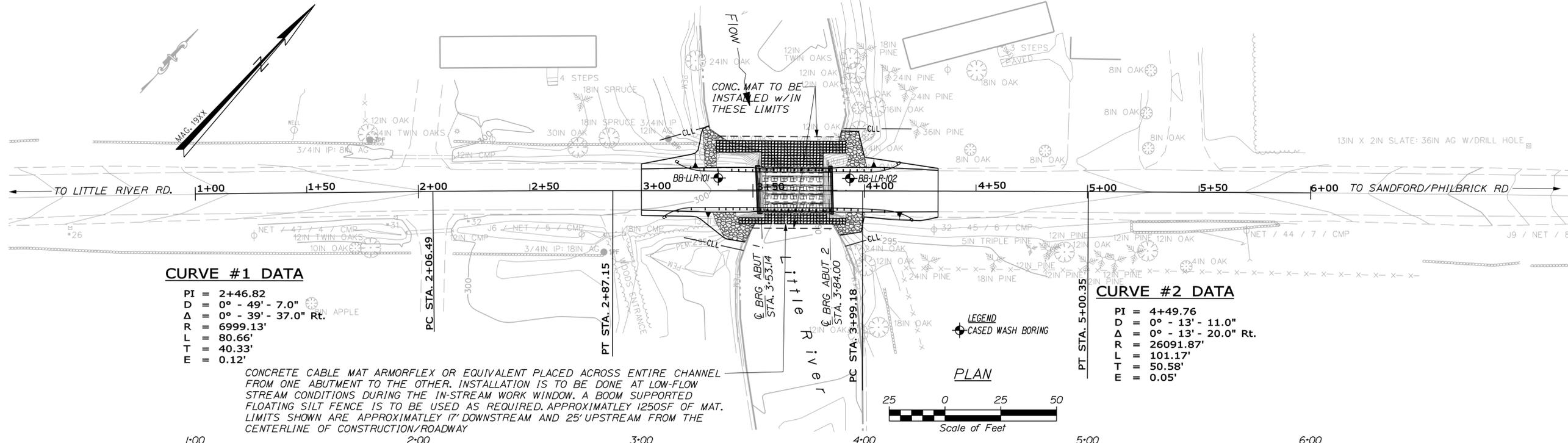


Date: 1/11/2012

Username: Coy, Williams

Division: BRIDGE

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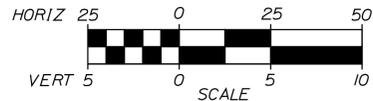
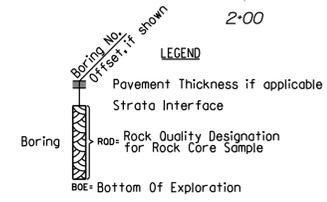
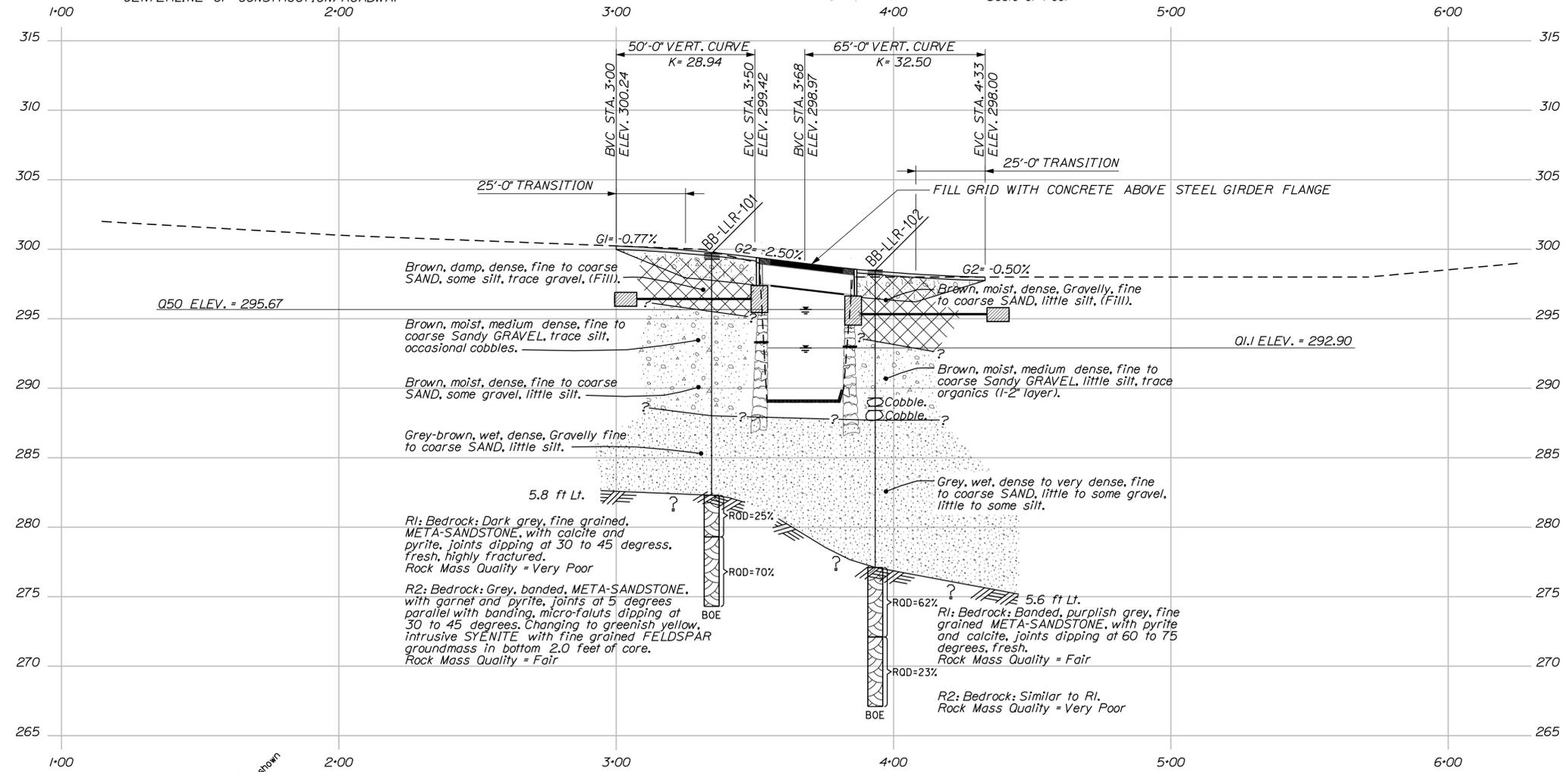
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**CURVE #2 DATA**

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 Δ = 0° - 13' - 20.0" Rt.  
 R = 26091.87'  
 L = 101.17'  
 T = 50.58'  
 E = 0.05'

CONCRETE CABLE MAT ARMORFLEX OR EQUIVALENT PLACED ACROSS ENTIRE CHANNEL FROM ONE ABUTMENT TO THE OTHER. INSTALLATION IS TO BE DONE AT LOW-FLOW STREAM CONDITIONS DURING THE IN-STREAM WORK WINDOW. A BOOM SUPPORTED FLOATING SILT FENCE IS TO BE USED AS REQUIRED. APPROXIMATELY 1250SF OF MAT. LIMITS SHOWN ARE APPROXIMATELY 17' DOWNSTREAM AND 25' UPSTREAM FROM THE CENTERLINE OF CONSTRUCTION/ROADWAY



Note: 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.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
BR-1787(300)X  
WIN  
17873.00  
BRIDGE NO. 1219  
BRIDGE PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED	K. MAGUIRE	MAR 2011			
CHECKED-REVIEWED	T. WHITE				
DESIGN-DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

FORD BRIDGE  
LITTLE RIVER  
YORK COUNTY  
LEBANON  
BORING LOCATION PLAN & INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER  
4  
OF 17

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Ford Bridge #1219 carries Fall Road over Little River Location: Lebanon, Maine		Boring No.: BB-LLR-101			
Driller: MaineDOT		Elevation (ft.): 299.7		Auger ID/OD: 5" Solid Stem			
Operator: Giguere/Giles		Datum: NAVD88		Sampler: Standard Split Spoon			
Logged By: B. Wilder		Rig Type: CME 45C		Hammer Wt./Fall: 140lb/30"			
Date Start/Finish: 3/22/11: 08:00-11:30		Drilling Method: Cased Wash Boring		Core Barrel: NO-2"			
Boring Location: 3+34.4, 5.8 ft Lt.		Casing ID/OD: HW & NW		Water Level*: 11.5 ft bgs.			
Hammer Efficiency Factor: 0.84		Hammer Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>					
<small>           Definitions: R = Rock Core Sample, Su = Insitu Field Vane Shear Strength (ksf), S<sub>u(log)</sub> = Lab Vane Shear Strength (ksf)            D = Split Spoon Sample, SSA = Solid Stem Auger, Tu = Pocket Torque Shear Strength (ksf), WC = water content, percent            MD = Unsuccessful Split Spoon Sample attempt, HSA = Hollow Stem Auger, Qu = Unconfined Compressive Strength (ksf), LL = Liquid Limit            U = Thin Wall Tube Sample, RC = Roller Cone, Nuncorrected = Raw Field SPT blowcount, PL = Plastic Limit            M = Unsuccessful Thin Wall Tube Sample attempt, NW = weight of 140lb. hammer, Homeer Efficiency Factor = Annual Calibration Value, PI = Plasticity Index            V = Insitu Vane Shear Test, PP = Pocket Penetrometer/C = weight of rods or casing, N<sub>60</sub> = SPT N-uncorrected corrected for hammer efficiency C = Grain Size Analysis            W = Unsuccessful Insitu Vane Shear Test attempt, WIP = weight of one person, N<sub>60</sub> = Hammer Efficiency Factor/60%uncorrected, C = Consolidation Test         </small>							
Depth (ft.)	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Blows (1/6 in. Shaper Depth) (ksf) or ROD (%)	Nuncorrected	Lab. Testing Results/AASHTO and Unified Class	
0						5" Pavement -0.42	
10	24/19	1.50 - 3.50	11/15/7/4	22	31	Brown, damp, dense, fine to coarse SAND, some silt, trace gravel, (F111). GR245525 A-2-4, SM WC=28.2%	
5	20	5.00 - 7.00	4/5/9/5	14	20	Brown, moist, medium dense, fine to coarse SANDY GRAVEL, trace silt, occasional cobbles. GR262369 A-1-b, GW-GM WC=4.4%	
10	30	3.6/3.6	10.00 - 10.30	55(3.6")	---	Brown, moist, dense, fine to coarse SAND, some gravel, little silt. GR262370 A-1-b, SW-SM WC=17.4%	
15	40	24/18	15.00 - 17.00	8/18/16/12	34	48	59 64 Grey-brown, wet, dense, Gravelly, fine to coarse SAND, little silt. GR262371 A-1-b, SP-SM WC=13.2%
20	R1	36/34	17.40 - 20.40	ROD = 25%	---	070 NO-2 282.30 070 blows for 0.4 ft. Top of Bedrock at Elev. 282.3 ft. R1: Bedrock: Dark grey, fine grained, META-SANDSTONE, with calcite and pyrite, joints dipping at 30 and 45 degrees, fresh, highly fractured. Rock Mass Quality = Very Poor. R1: Core Times (min:sec) 11.4-18.4 ft (12:40) 18.4-19.4 ft (13:50) 19.1-20.4 ft (14:00) 94% Recovery Core Blocked R2: Bedrock: Grey, banded, META-SANDSTONE, with garnet and pyrite, joints at 5 degrees parallel with banding, micro-faults dipping at 30 to 45 degrees. Changing to greenish yellow, intrusive, SYENITE, with a fine grained, FELDSPAR groundmass in the bottom 2 feet of core. Rock Mass Quality = Fair. R2: Core Times (min:sec) 20.4-21.4 ft (12:35) 21.4-22.4 ft (12:10) 22.4-23.4 ft (12:05) 23.4-24.4 ft (12:10) 24.4-25.4 ft (12:10) 100% Recovery	
25	R2	60/60	20.40 - 25.40	ROD = 70%	---	274.30 Bottom of Exploration at 25.40 feet below ground surface.	
30							
35							
40							
45							
50							

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Ford Bridge #1219 carries Fall Road over Little River Location: Lebanon, Maine		Boring No.: BB-LLR-102			
Driller: MaineDOT		Elevation (ft.): 298.5		Auger ID/OD: 5" Solid Stem			
Operator: Giguere/Giles		Datum: NAVD88		Sampler: Standard Split Spoon			
Logged By: B. Wilder		Rig Type: CME 45C		Hammer Wt./Fall: 140lb/30"			
Date Start/Finish: 3/22/11: 12:00-14:00		Drilling Method: Cased Wash Boring		Core Barrel: NO-2"			
Boring Location: 3+33.4, 5.6 ft Lt.		Casing ID/OD: HW & NW		Water Level*: 11.0 ft bgs.			
Hammer Efficiency Factor: 0.84		Hammer Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>					
<small>           Definitions: R = Rock Core Sample, Su = Insitu Field Vane Shear Strength (ksf), S<sub>u(log)</sub> = Lab Vane Shear Strength (ksf)            D = Split Spoon Sample, SSA = Solid Stem Auger, Tu = Pocket Torque Shear Strength (ksf), WC = water content, percent            MD = Unsuccessful Split Spoon Sample attempt, HSA = Hollow Stem Auger, Qu = Unconfined Compressive Strength (ksf), LL = Liquid Limit            U = Thin Wall Tube Sample, RC = Roller Cone, Nuncorrected = Raw Field SPT blowcount, PL = Plastic Limit            M = Unsuccessful Thin Wall Tube Sample attempt, NW = weight of 140lb. hammer, Homeer Efficiency Factor = Annual Calibration Value, PI = Plasticity Index            V = Insitu Vane Shear Test, PP = Pocket Penetrometer/C = weight of rods or casing, N<sub>60</sub> = SPT N-uncorrected corrected for hammer efficiency C = Grain Size Analysis            W = Unsuccessful Insitu Vane Shear Test attempt, WIP = weight of one person, N<sub>60</sub> = Hammer Efficiency Factor/60%uncorrected, C = Consolidation Test         </small>							
Depth (ft.)	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Blows (1/6 in. Shaper Depth) (ksf) or ROD (%)	Nuncorrected	Lab. Testing Results/AASHTO and Unified Class	
0						4" Pavement -0.33	
10	24/15	2.00 - 4.00	13/17/11/15	28	39	Brown, moist, dense, Gravelly, fine to coarse SAND, little silt, (F111). GR262372 A-1-b, SW-SM WC=10.7%	
5	20	5.00 - 7.00	4/6/6/13	12	17	Brown, moist, medium dense, fine to coarse SANDY GRAVEL, little silt, trace organics (1-2" layer). GR262373 A-1-b, GP-GM WC=7.1%	
10	30	24/14	11.00 - 13.00	15/13/11/11	24	34	281.90 Wash Ahead Roller Coned ahead from 9.2-11.0 ft bgs. Cobble from 9.2-9.8 ft bgs. Cobble from 10.1-10.6 ft bgs. Grey, wet, dense, fine to coarse SAND, some gravel, some silt. GR262374 A-2-4, SM WC=11.3%
15	40	24/18	15.00 - 17.00	10/13/17/29	30	42	Grey, wet, dense, fine to coarse SAND, some gravel, little silt. Changed to NW Casing at 15.0 ft bgs. GR262375 A-1-b, SM WC=10.0%
20	50	12/12	20.00 - 21.00	34/50	---	277.10 NO-2 Grey, wet, very dense, fine to coarse SAND, some silt, little gravel, (T111). Roller Coned ahead to 21.4 ft bgs. Top of Bedrock at Elev. 277.1 ft. R1: Bedrock: Banded, purplish grey, fine grained, META-SANDSTONE, with pyrite and calcite, joints dipping at 60 to 75 degrees, fresh. Rock Mass Quality = Fair. R1: Core Times (min:sec) 21.4-22.4 ft (2:00) 22.4-23.4 ft (2:00) 23.4-24.4 ft (2:00) 24.4-25.4 ft (1:20) 25.4-26.4 ft (1:50) 100% Recovery R2: Bedrock: Banded, purplish grey, fine grained, META-SANDSTONE, with pyrite and calcite, joints dipping at 60 to 75 degrees, fresh. Rock Mass Quality = Very Poor. R2: Core Times (min:sec) 26.4-27.4 ft (1:20) 27.4-28.4 ft (2:40) 28.4-29.4 ft (2:30) 29.4-30.4 ft (1:20) 30.4-31.4 ft (1:50) 100% Recovery	
25	R2	60/60	26.40 - 31.40	ROD = 23%	---	267.10 Bottom of Exploration at 31.40 feet below ground surface.	
30							
35							
40							
45							
50							

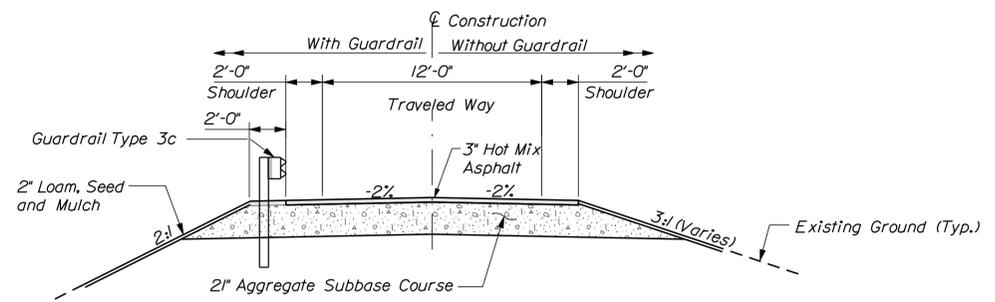
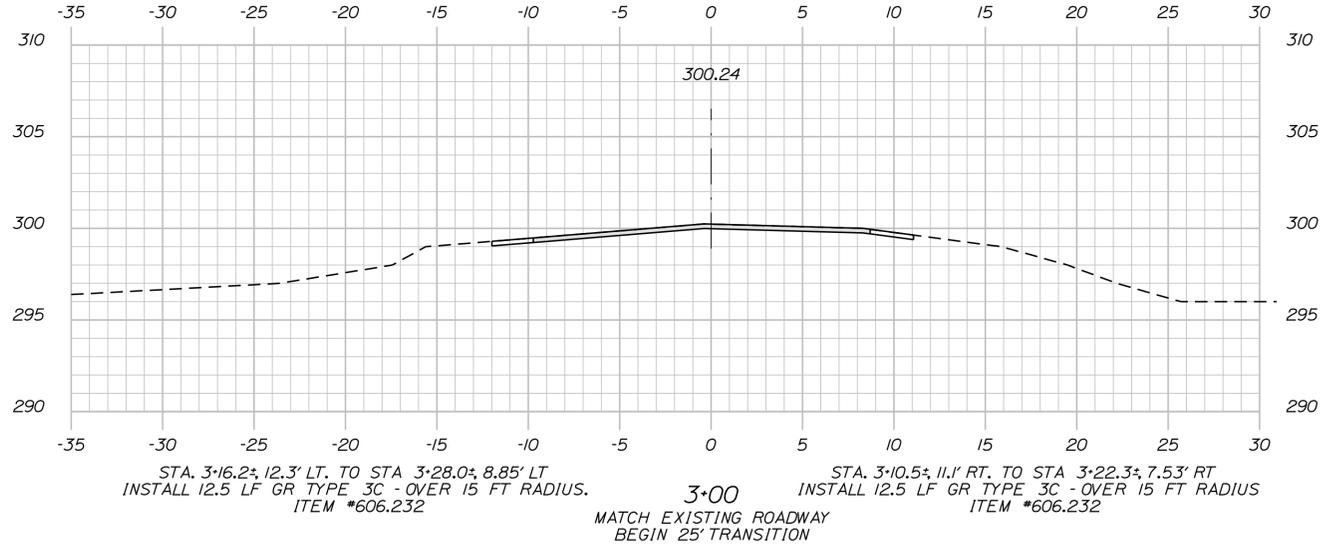
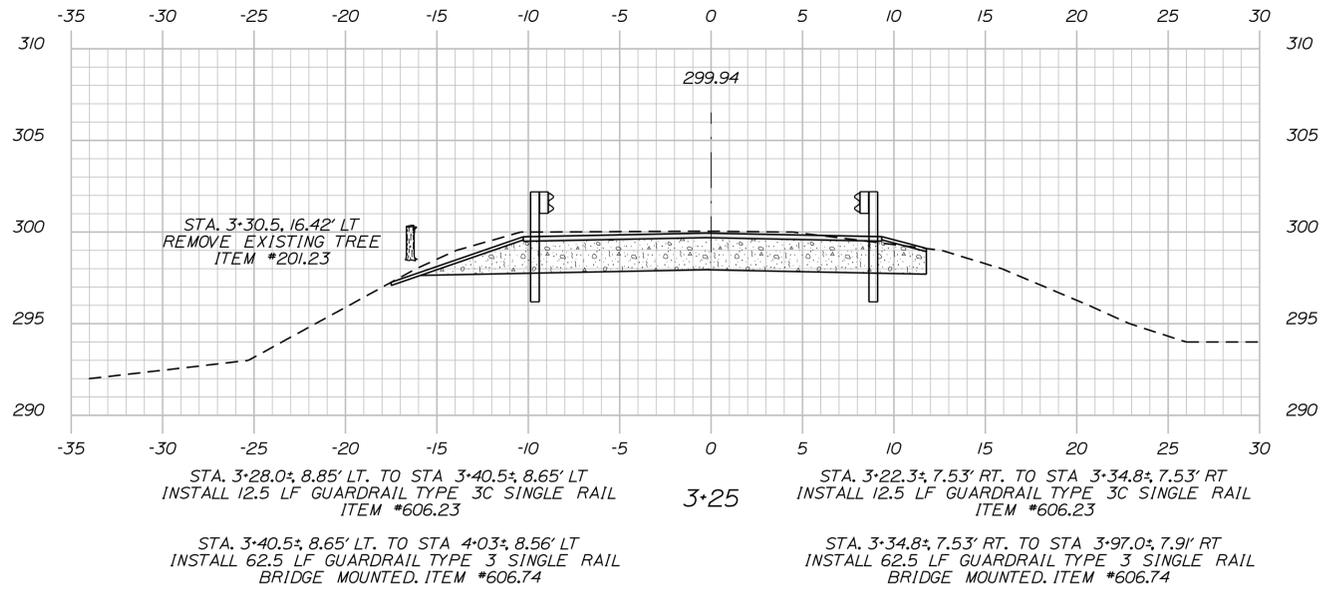
**STATE OF MAINE**  
**DEPARTMENT OF TRANSPORTATION**  
**BR-1787(300)X**

LEBANON YORK COUNTY  
 FORD BRIDGE LITTLE RIVER  
 BORING LOGS

SHEET NUMBER  
**5**  
 OF 17

BRIDGE NO. 1219  
 WIN  
 17873.00  
 BRIDGE PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE
DESIGN-DETAILED K.MAGUIRE	T. WHITE	MAR 2011	
CHECKED-REVIEWED			
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			



TYPICAL APPROACH SECTION

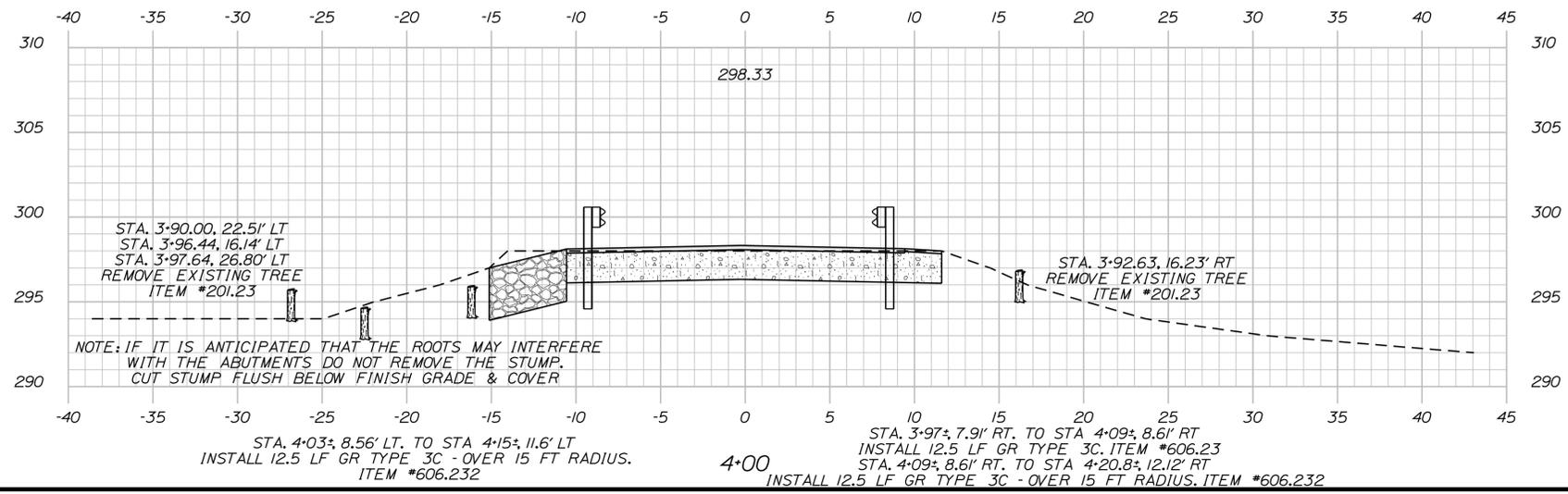
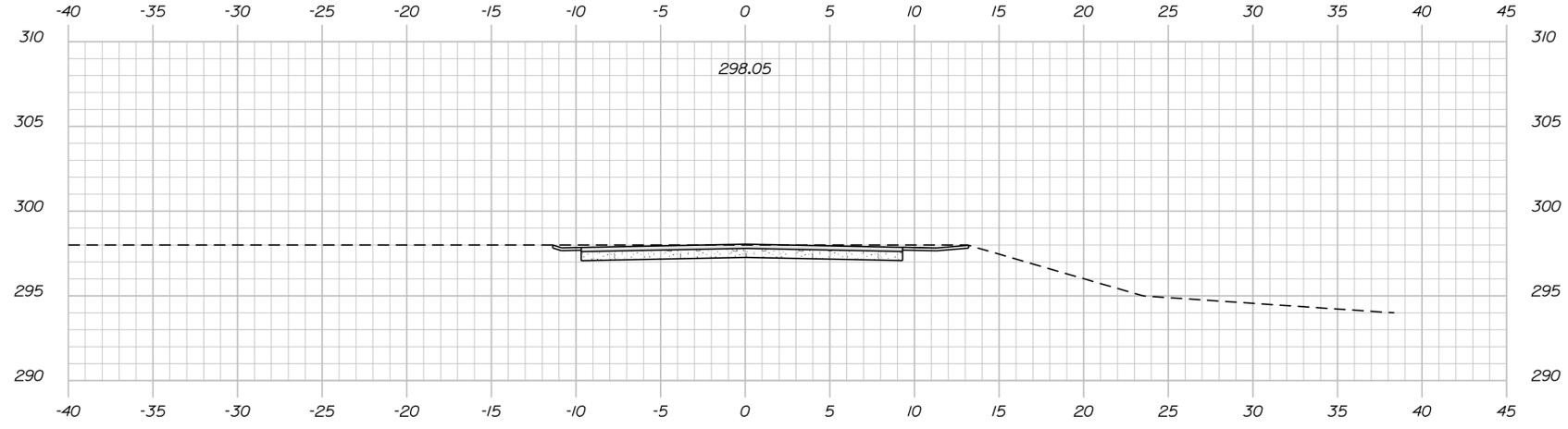
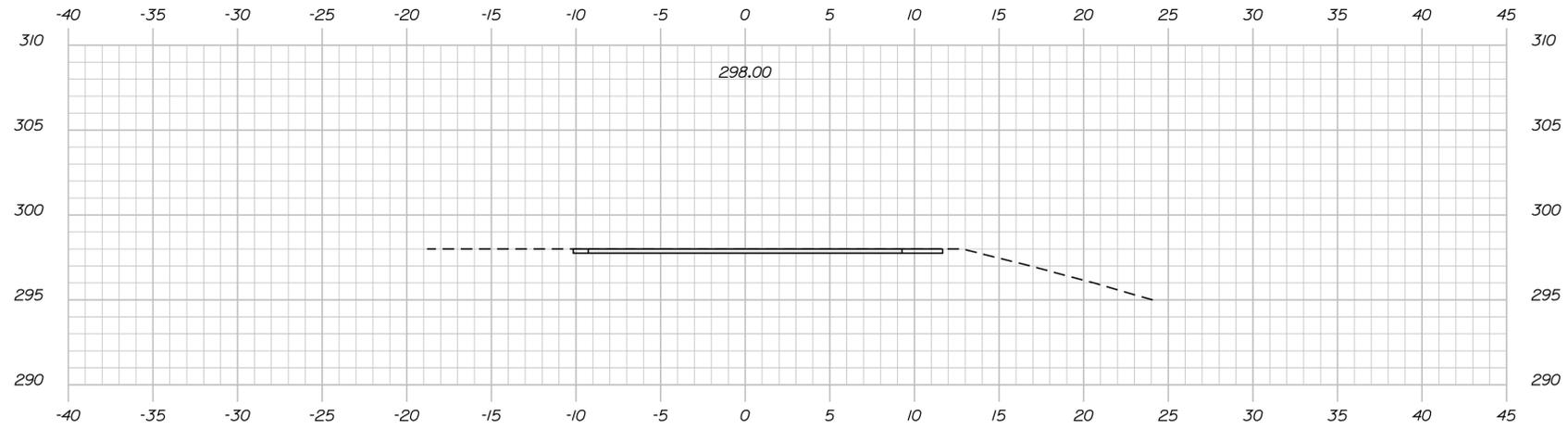
STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
BR-1787(300)X  
BRIDGE NO. 1219 WIN 17873.00 BRIDGE PLANS

DESIGN-DETAILED	DATE	SIGNATURE
CHECKED-REVIEWED	NOV. 2011	9099
DESIGN-DETAILED	DEC. 2011	17/2011
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER	L. TIMBERLAKE	BY	DATE
DESIGN-DETAILED	CHK	CHK	NOV. 2011
CHECKED-REVIEWED	CHK	CHK	DEC. 2011
DESIGN-DETAILED	CHK	CHK	
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

FORD BRIDGE  
OVER LITTLE RIVER  
YORK COUNTY  
LEBANON  
CROSS SECTIONS

SHEET NUMBER  
6  
OF 17



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
BR-1787(300)X  
BRIDGE NO. 1219 WIN 17873.00  
BRIDGE PLANS

PROJ. MANAGER	L. TIMBERLAKE	BY	DATE
DESIGN DETAILED	CHK	CHK	NOV. 2011
CHECKED-REVIEWED	GIM	JUH	DEC. 2011
DESIGN DETAILED			SIGNATURE
REVISIONS 1			P.E. NUMBER
REVISIONS 2			9099
REVISIONS 3			DATE
REVISIONS 4			11/2011
FIELD CHANGES			

FORD BRIDGE  
OVER LITTLE RIVER  
YORK COUNTY  
LEBANON  
CROSS SECTIONS

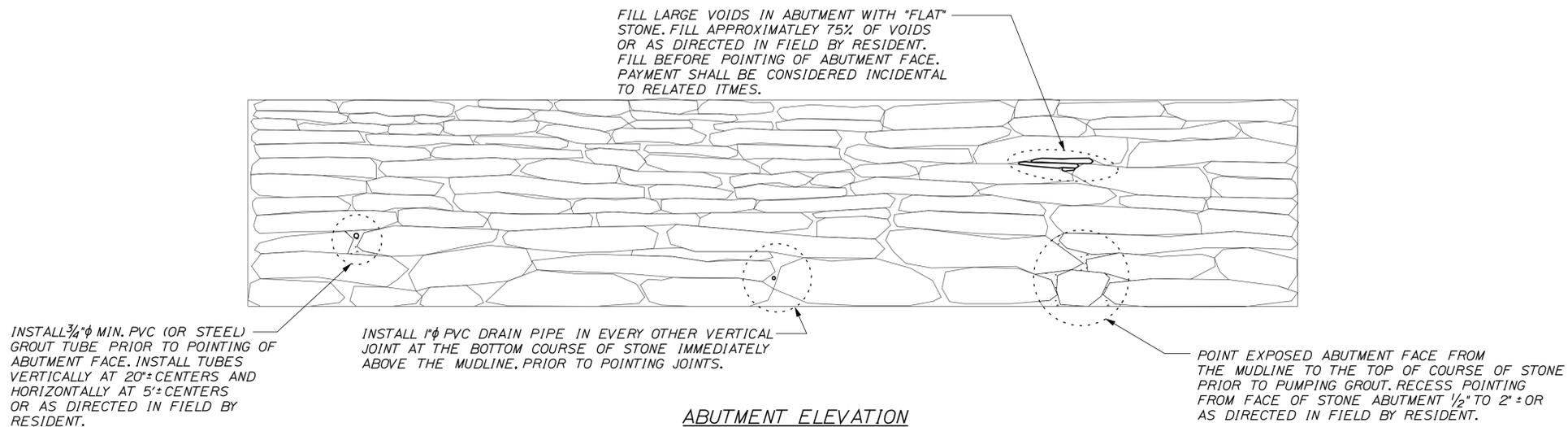
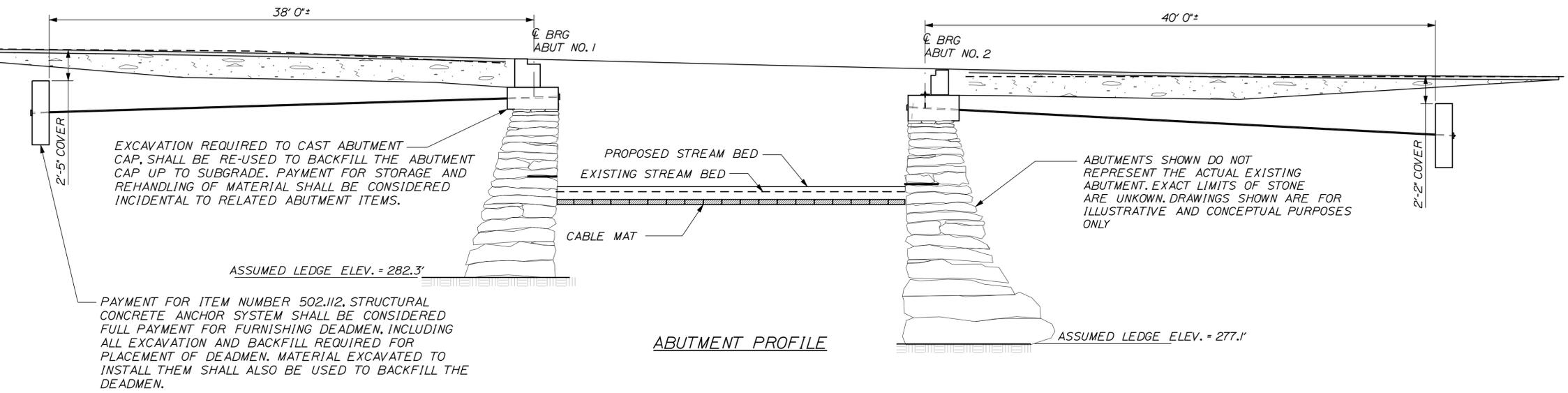
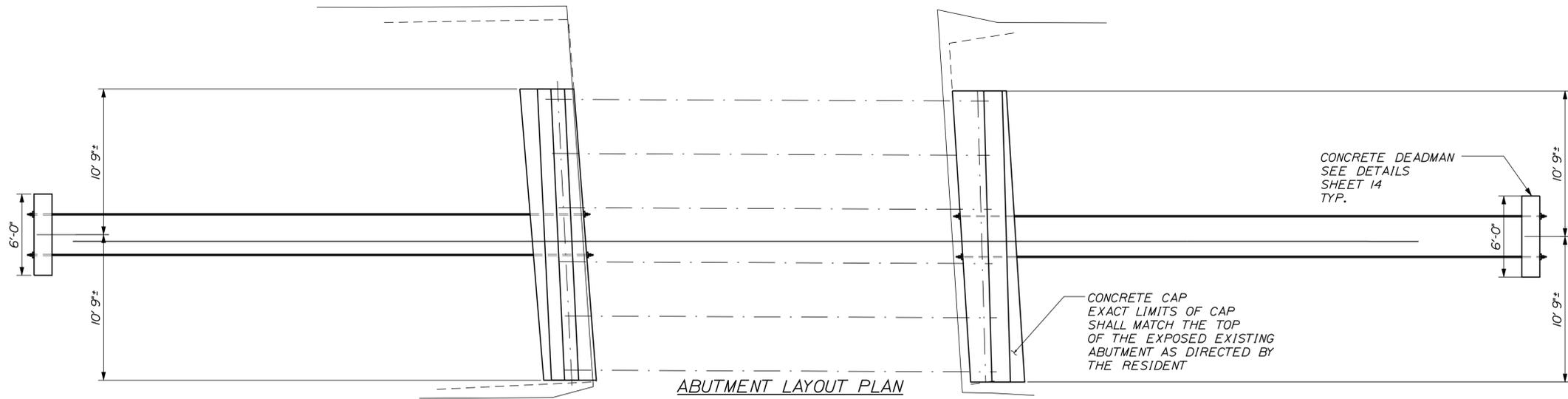
SHEET NUMBER  
7  
OF 17

Date: 1/11/2012

Username: Coy.Williams

Division: BRIDGE

Filename: ... \bridge\msta\008\_Abutments.dgn



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
017873.00  
BRIDGE NO. 1219  
WIN  
17873.00  
BRIDGE PLANS

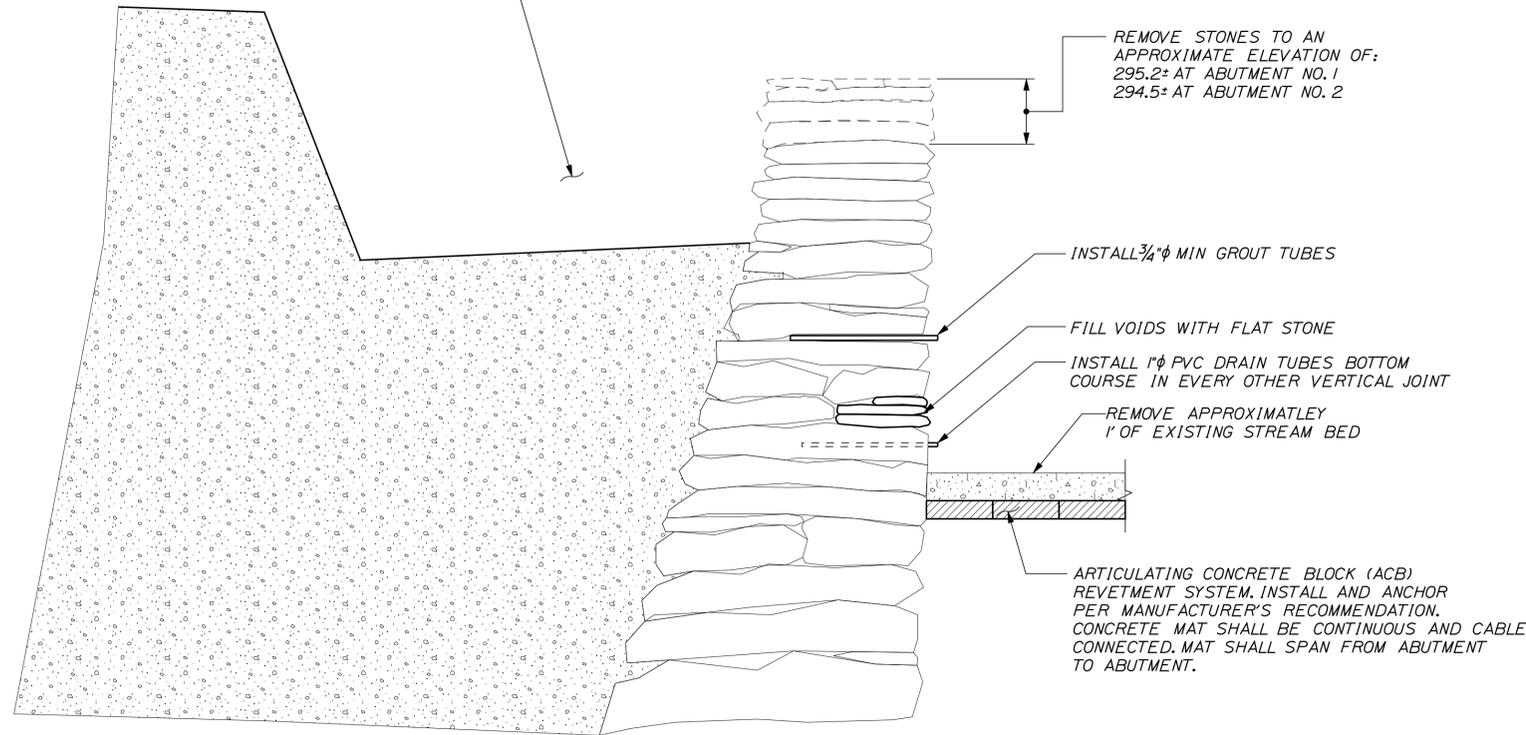
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REVISIONS 1				SIGNATURE
REVISIONS 2				P.E. NUMBER
REVISIONS 3				DATE
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FIELD CHANGES				

FORD BRIDGE  
OVER LITTLE RIVER  
YORK COUNTY  
LEBANON  
ABUTMENT REHABILITATION

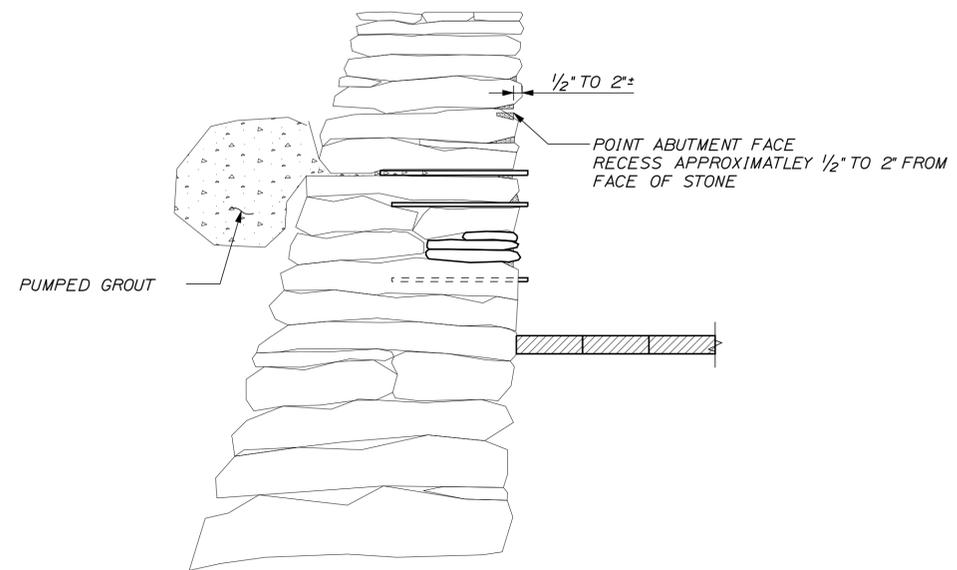
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OF 17



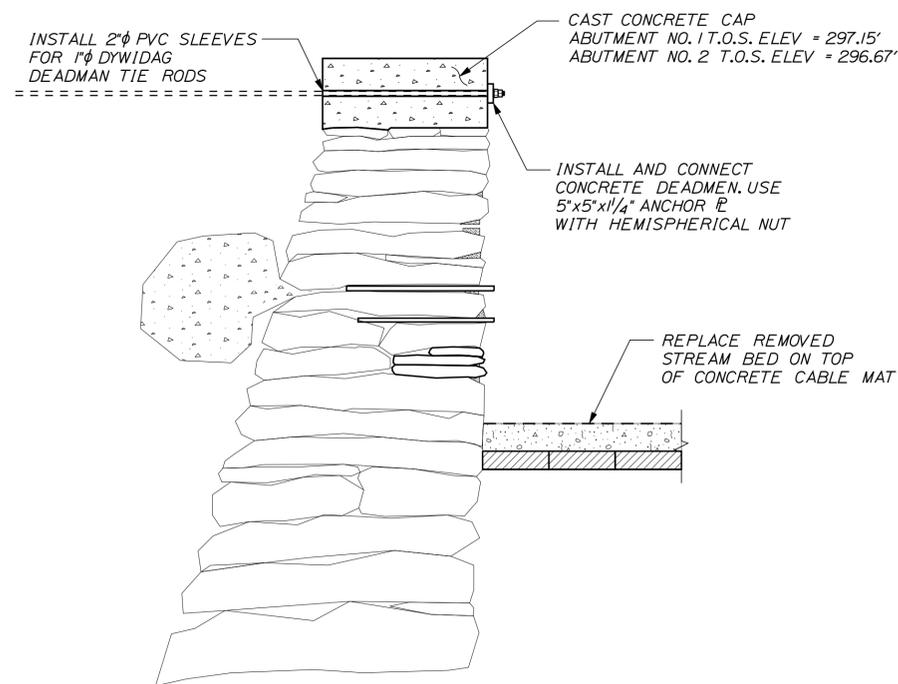
EXCAVATE BEHIND ABUTMENT  
EXACT LIMITS TO BE DETERMINED  
IN THE FIELD BY THE RESIDENT ENGINEER



REHAB STAGE 1



REHAB STAGE 2



REHAB STAGE 3

**ABUTMENT REHAB SEQUENCE AND PROCEDURE**

- EXCAVATE BEHIND EXISTING ABUTMENTS APPROXIMATELY 6' BELOW THE DEPTH OF THE SUPERSTRUCTURE.
- REMOVE THE SUPERSTRUCTURE.
- INSTALL BOOM SUPPORTED FLOATING SILT FENCE DOWNSTREAM, REMOVE 1 FOOT OF STREAM BED MATERIAL, STORE ON SITE IN A MANNER TO PREVENT THE LOSS OF ANY STREAM BED MATERIAL.
- INSTALL CONCRETE CABLE MAT, GROUT ACB MATT TO ABUTMENT FACE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- INSTALL COFFERDAMS AS REQUIRED AROUND EACH ABUTMENT ALLOWING FLOW DOWN THE CENTER OF THE CHANNEL - NOTE EEL PASSAGE MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
- REMOVE TOP LAYER OF STONES DOWN TO MAXIMUM ELEVATION OF 295.2± AT ABUTMENT NUMBER 1 AND A MAXIMUM ELEVATION OF 294.5± AT ABUTMENT #2 ENSURE THE COURSE OF STONE IMMEDIATELY BELOW REMOVAL LIMITS IS STABLE, REMOVE ANY SMALL STONES IN THAT REGION AT THE DIRECTION OF THE RESIDENT ENGINEER.
- CLEAN OUT ALL JOINTS REMOVING ALL LOOSE DEBRIS AND THEN FLUSH WITH AIR AND WATER.
- INSTALL GROUT TUBES AND WEEPER DRAIN PIPES.
- FILL LARGE VOIDS IN ABUTMENT FACE, (ANY OPENING GREATER THAN 6" IN BOTH DIRECTIONS SHOULD BE CHINKED WITH STONE SIMILAR IN APPEARANCE TO THE ABUTMENT FACING STONES) STONES SHALL NOT HAVE ROUNDED EDGES, BUT SHALL BE APPROXIMATELY FLAT AND HAVE SUFFICIENT SURFACE AREA TO BOND TO POINTING AND GROUT.
- POINT EXPOSED ABUTMENT FACE FROM THE MUDLINE UP TO THE TOP OF STONES WITH SHOTCRETE/GUNITTE, OR WITH A CONTRACTOR PROPOSED ALTERNATE METHOD THAT HAS BEEN ACCEPTED BY MAINE DOT PER THE SPECIAL PROVISION. PAYMENT OF ITEM NUMBER 517.61 SHOTCRETE WILL BE CONSIDERED REIMBURSEMENT FOR ANY ACCEPTED CONTRACTOR PROPOSED ALTERNATIVE POINTING METHOD. RECESS FROM FACE OF STONES APPROXIMATELY 1/2" OR AS DIRECTED BY RESIDENT IN FIELD. A 4' x 4' TEST SECTION OF SHOTCRETE OR ALTERNATE POINTING METHOD WILL BE REQUIRED AS PART OF THE POINTING PAY ITEM. IMMEDIATELY CLEAN ABUTMENT STONE FACES OF ANY EXCESS SHOTCRETE OR OVERSPRAY, THE SHOTCRETE TO REMAIN SHOULD BE LOCATED ENTIRELY WITHIN THE JOINTS OF THE WALL FACE. SMALL AREAS THAT ARE UNABLE TO BE SHOTCRETED MAY BE POINTED BY HAND USING THE SAME MATERIALS AS THE LARGER JOINTS.
- INSTALL PUMPED SILICA SAND, CEMENT & WATER GROUT, STARTING FROM THE BOTTOM TUBES, WORKING UPWARDS AS THE GROUT LEVEL REACHES THE NEXT SET OF GROUT PORTS. MONITOR STONES FOR MOVEMENT THROUGHOUT THE PUMPING PROCESS. IF ANY MOVEMENT IS DISCERNED STOP ALL PUMPING ACTIVITY IMMEDIATELY, UNTIL SUFFICIENT SET OF THE GROUT ALLOWS FOR CONTINUATION OF THE GROUTING. THE GROUT SHALL BE APPROXIMATELY 2 PARTS CEMENT AND 1 PART SILICA SAND, OR AS APPROVED BY THE DEPARTMENT.
- REMOVE COFFERDAM
- REPLACE STREAM BED MATERIAL ON TOP OF CABLE MAT, TO THE APPROXIMATE PRE-EXCAVATED LINES AND GRADES OF THE STREAM BED. ANY EXCESS STREAM BED MATERIAL NOT USED ON TOP OF THE CABLE MAT SHALL BE WASTED ON SITE, BLENDED WITH STRUCTURAL EXCAVATION AND USED BEHIND THE ABUTMENTS, OR BLENDED TO CONFORM WITH APPROPRIATE AGGREGATE SUBBASE GRAVEL SPECIFICATIONS AND USED UNDER THE PAVEMENT.
- CAST TOP CONCRETE SLAB WITH PVC SLEEVES FOR DEADMAN ANCHORAGE.
- INSTALL CONCRETE DEADMEN AND BACKFILL AS REQUIRED.
- RESET SUPERSTRUCTURE.

Date: 1/11/2012

Username: Coy.Williams

Division: BRIDGE

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STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
017873.00  
BRIDGE NO. 1219  
WIN  
17873.00  
BRIDGE PLANS

PROJ. MANAGER	DESIGN-DETAILED	LOCK	B. CONDEN	BY	DATE
	CHECKED-REVIEWED	GM	GM	OGK	NOV. 2011
	DESIGN-DETAILED	GM	GM	JUH	DEC. 2011
	REVISIONS 1				
	REVISIONS 2				
	REVISIONS 3				
	REVISIONS 4				
	FIELD CHANGES				

FORD BRIDGE  
OVER LITTLE RIVER  
YORK COUNTY  
LEBANON  
ABUTMENT REHABILITATION

SHEET NUMBER  
9  
OF 17

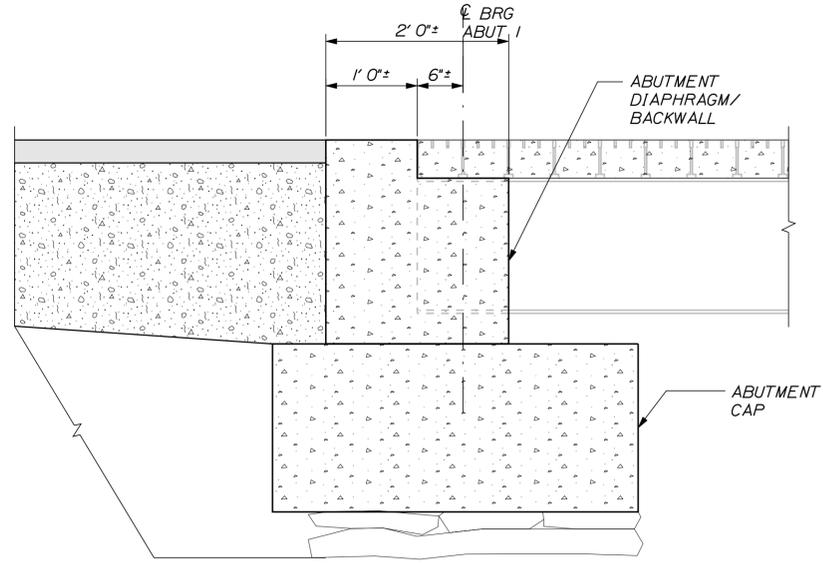


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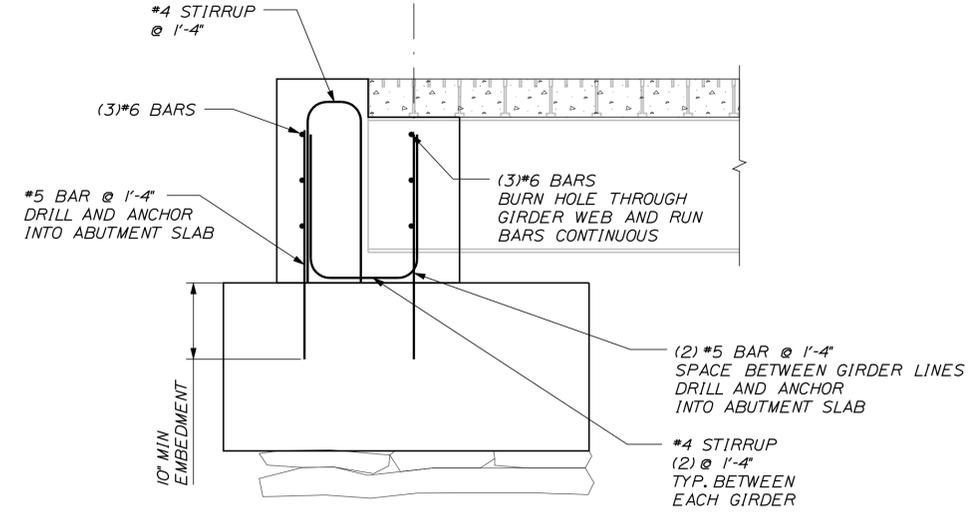
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Division: BRIDGE

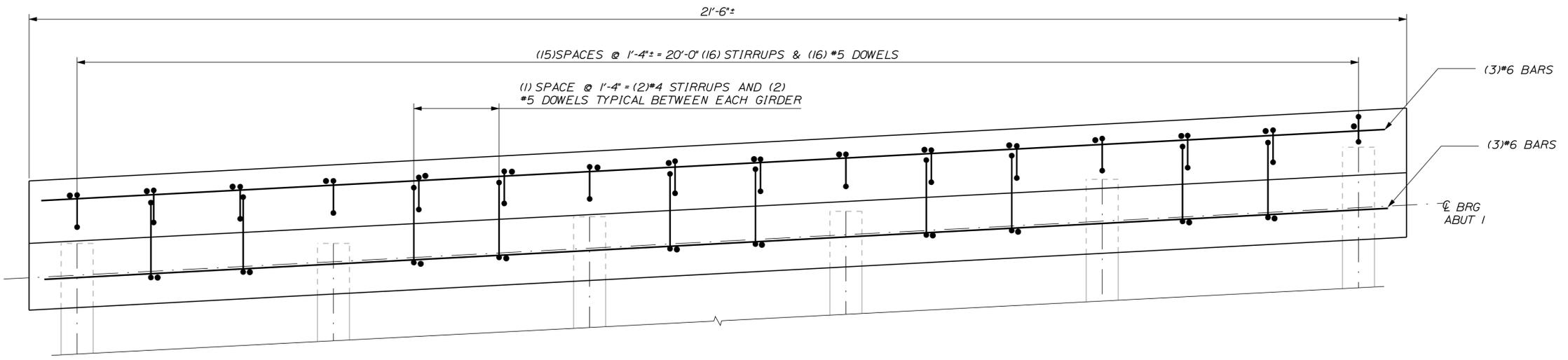
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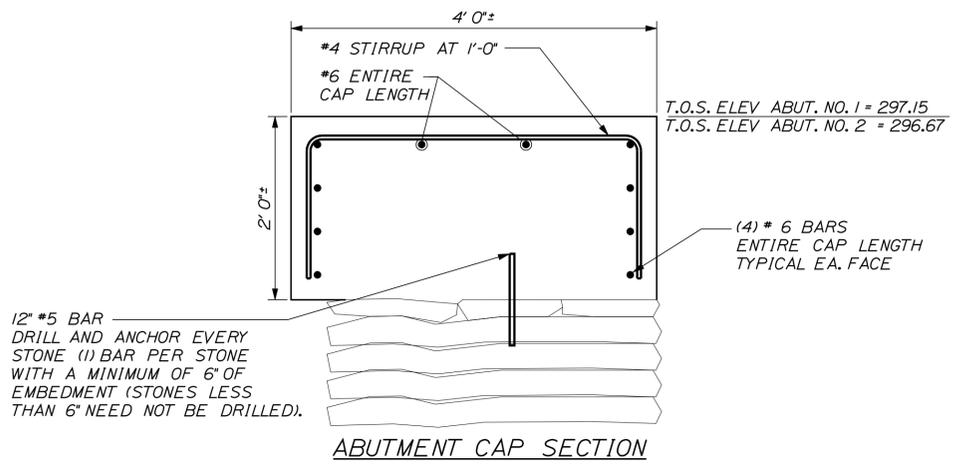
ABUTMENT NO. 1 SECTION



ABUTMENT NO. 1 BACKWALL REINFORCEMENT SECTION  
ABUTMENT CAP REINFORCEMENT NOT SHOWN FOR CLARITY



ABUTMENT I BACKWALL REINFORCEMENT PLAN  
ABUTMENT CAP REINFORCEMENT NOT SHOWN FOR CLARITY



ABUTMENT CAP SECTION

**ABUTMENT NOTES**

1. ALL STEEL SHALL BE GR. 36KSI U.N.O.
2. ALL ANCHOR BOLTS SHALL BE F1554 GR. 36KSI.
3. ALL ANCHOR RODS AND FASTENERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
4. ABUTMENT NO. 1 SHALL BE TEMPORARILY BLOCKED UNTIL THE CAST IN PLACE CONCRETE DIAPHRAGM HAS CURED.
5. NEOPRENE PADS SHALL BE POLYCHLOROPRENE OR NATURAL POLYISOPRENE OF 60 ± 5 SHORE A DUROMETER HARDNESS. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.
6. EXACT LIMITS OF THE ABUTMENT CAP SHALL BE DETERMINED BY THE RESIDENT IN THE FIELD AFTER THE REMOVAL OF THE TOP LAYER OF THE EXISTING ABUTMENT. IT IS ANTICIPATED THAT THE ACTUAL LIMITS OF CONCRETE WILL VARY FROM THOSE SHOWN. CONCRETE CAP SHALL MATCH THE TOP OF THE EXPOSED BRIDGE ABUTMENTS. PAYMENT CONSIDERED INCIDENTAL TO CONTRACT ITEMS.
7. DRILLED AND ANCHORED #5 BARS MAY BE CAST IN THE CAP AT THE CONTRACTOR'S OPTION.
8. REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER OF 2" UNLESS OTHERWISE NOTED.
9. PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED TO THE TOP OF THE ABUTMENT BACKWALLS AND TO 1' BELOW THE TOP OF THE BACKWALLS ON THE BACKSIDE AND TO THE CONCRETE CURBS.

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
017873.00  
BRIDGE NO. 1219  
WIN  
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BRIDGE PLANS

PROJ. MANAGER	B. CONDEN	BY	DATE
DESIGN DETAILED	LOCK	OGK	NOV. 2011
CHECKED-REVIEWED	GMM	JUH	DEC. 2011
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE  
9099  
P.E. NUMBER  
11/2011  
DATE

FORD BRIDGE  
OVER LITTLE RIVER  
LEBANON YORK COUNTY  
ABUTMENT NO. 1

SHEET NUMBER  
**10**  
OF 17

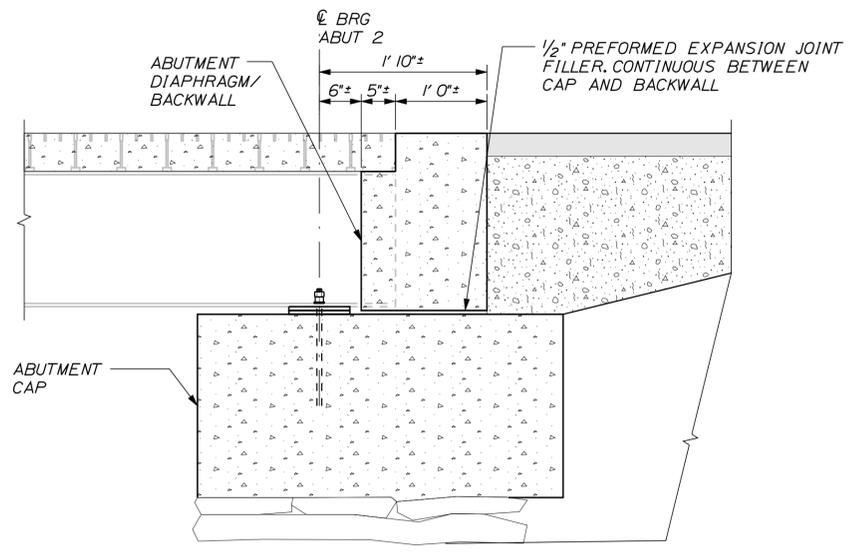


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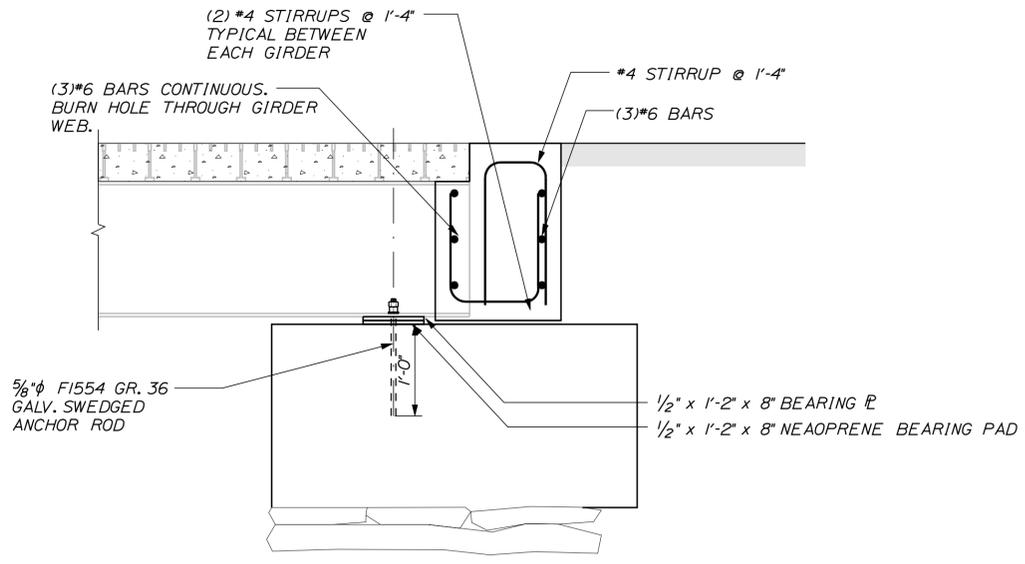
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Division: BRIDGE

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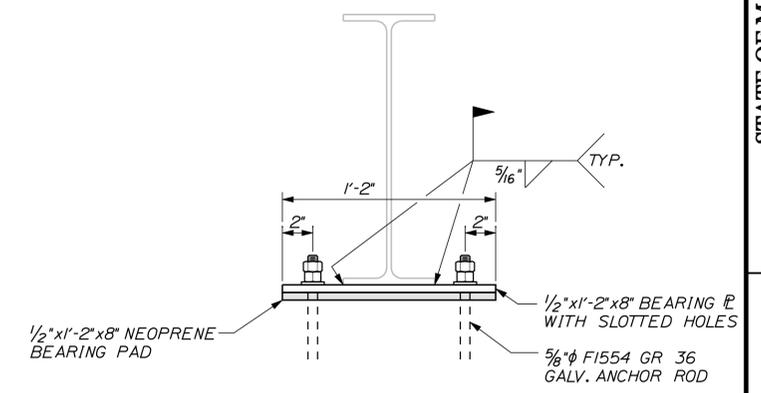


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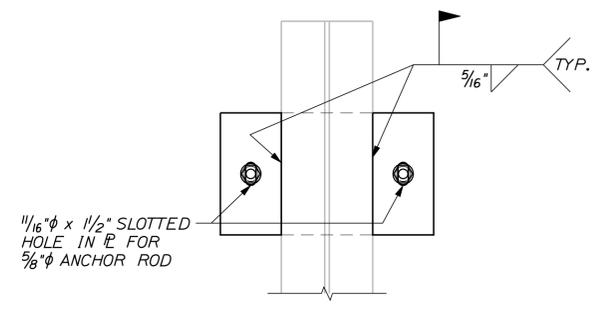


ABUTMENT NO. 2 BACKWALL REINFORCEMENT SECTION

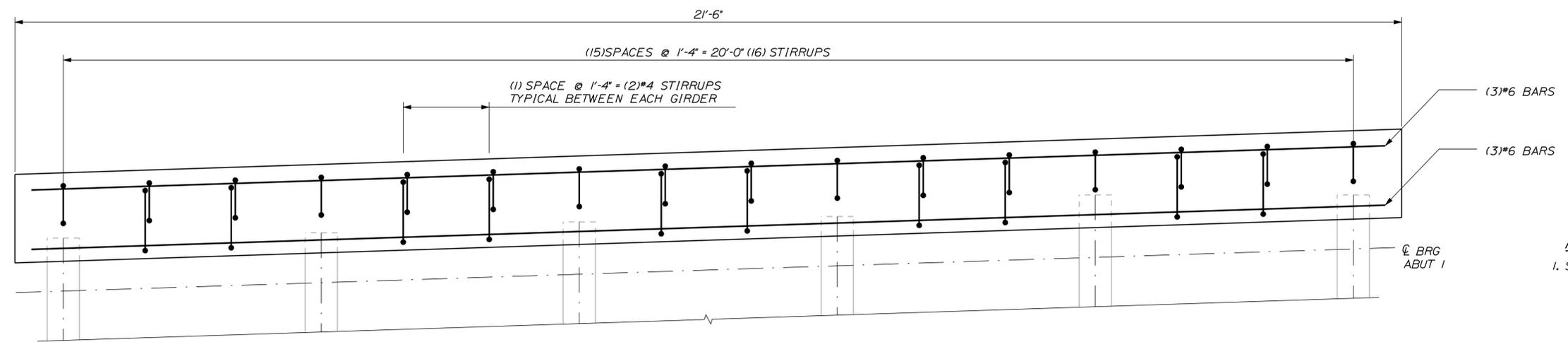
ABUTMENT CAP REINFORCEMENT NOT SHOWN FOR CLARITY FOR ABUTMENT CAP REINFORCEMENT SEE SHEET 10



ABUTMENT NO. 2 BEARING SECTION



ABUTMENT NO. 2 BEARING PLAN



ABUTMENT 2 BACKWALL REINFORCEMENT PLAN

ABUTMENT CAP REINFORCEMENT NOT SHOWN FOR CLARITY

ABUTMENT NOTES  
1. SEE SHEET NO. 10

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
017873.00  
BRIDGE NO. 1219  
WIN 17873.00  
BRIDGE PLANS

PROJ. MANAGER	DESIGN DETAILED	LOCK	CHK	DATE
	CHECKED-REVIEWED	GM	JUH	NOV. 2011
	DESIGN DETAILED			DEC. 2011
REVISIONS 1				SIGNATURE
REVISIONS 2				P.E. NUMBER
REVISIONS 3				DATE
REVISIONS 4				
FIELD CHANGES				

FORD BRIDGE  
OVER LITTLE RIVER  
LEBANON YORK COUNTY  
ABUTMENT NO. 2

SHEET NUMBER

11

OF 17

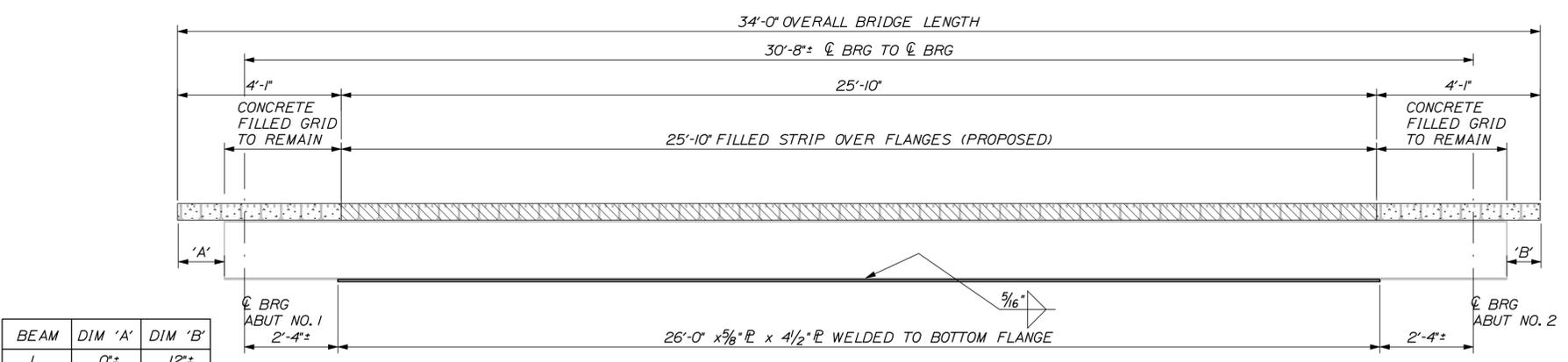


Date: 1/11/2012

Username: Coy.Williams

Division: BRIDGE

Filename: ...msto\012\_Superstructure.dgn



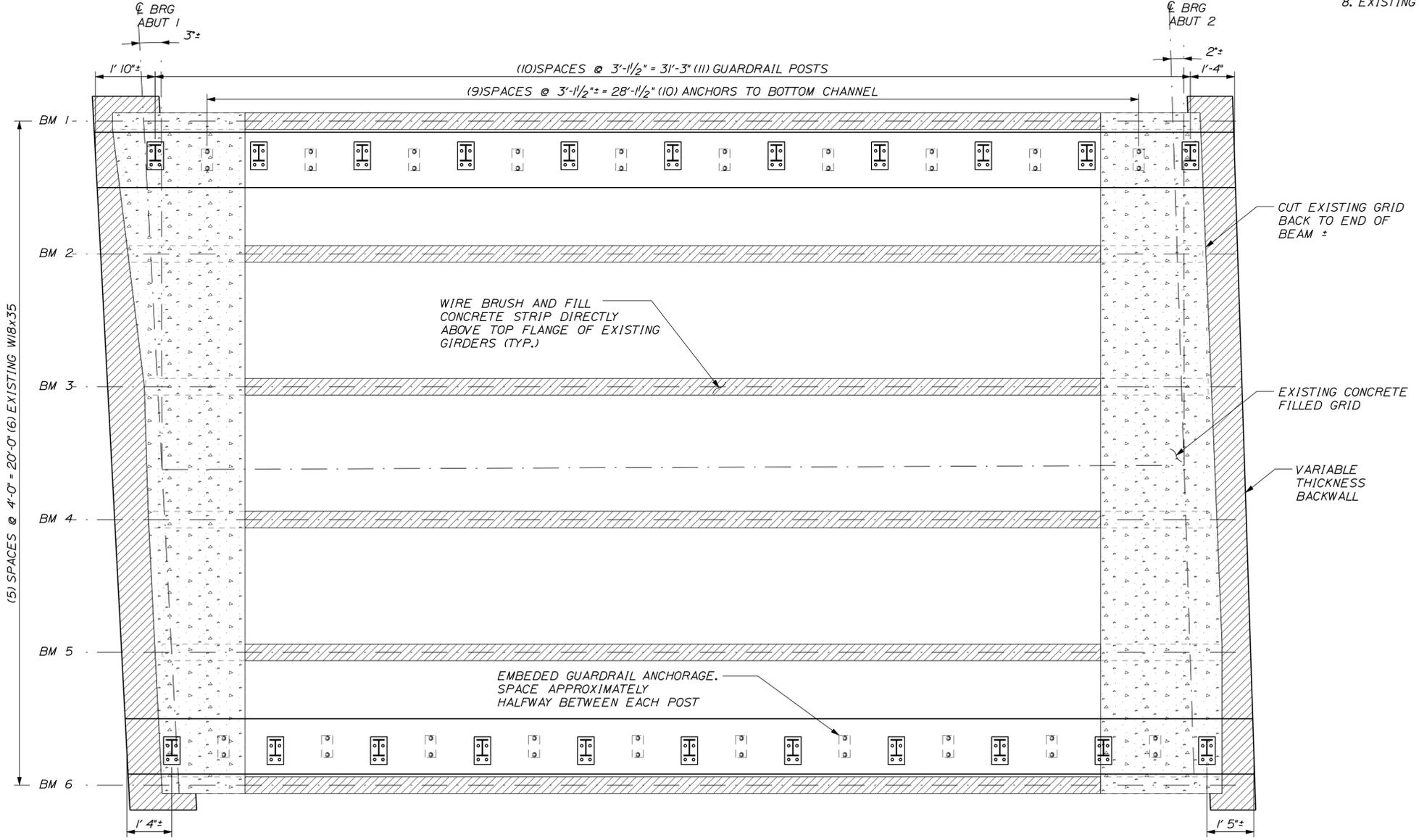
BEAM	DIM 'A'	DIM 'B'
1	0'±	12'±
2	6'±	11'±
3	12'	9'
4	13'±	8'±
5	20'±	4'±
6	20'±	4'±

DIMENSIONS 'A' & 'B' REPRESENT AREAS OF THE FILLED DECK TO BE REMOVED

TYPICAL GIRDER ELEVATION

SUPERSTRUCTURE NOTES

1. SUPERSTRUCTURE TO BE REMOVED DURING REPAIR AND TO ALLOW ABUTMENT REPAIR TO TAKE PLACE. CURB AND CONCRETE STRIP SHALL BE PLACED/CAST AFTER THE BRIDGE REPLACEMENT. ALL STEEL PLATE REPAIR AND PAINTING SHALL BE COMPLETED PRIOR TO PLACEMENT OF CONCRETE.
2. CONCRETE STRIP SHALL HAVE A COMPRESSIVE STRENGTH OF 4350 PSI. CONCRETE CURB SHALL HAVE A COMPRESSIVE STRENGTH OF 5075 PSI.
3. THE EXISTING GRID OVERHANGS THE BEAMS AT VARIABLE LENGTHS. CONTRACTOR SHALL REMOVE EXCESS GRID PAST THE GIRDERS. ALL EXPOSED ENDS OF THE GRID NOT CUT ALONG A BAR SHALL BE GROUND DOWN TO A SMOOTH END AND BENT DOWN AS DIRECTED BY THE RESIDENT. REMOVAL OF GRID SHALL ALLOW FOR AN APPROXIMATE 10" MIN - 12" BACKWALL WITH A CONTINUOUS SKEW. ANY OPENED END OF GRID DUE TO CUTTING SHALL HAVE EXISTING CONCRETE REMOVED.
4. THE EXISTING DECK ABOVE TOP FLANGE AND THE EXISTING STEEL GIRDERS SHALL BE CLEANED AND PAINTED PER SPECIFICATIONS.
5. THE METAL GRID SHALL BE WIRE BRUSHED CLEANED OF ALL RUST USING A POWER TOOL MOUNTED WIRE BRUSH OR PROCEDURE APPROVED BY THE DEPARTMENT.
6. THE EXISTING BRIDGE RAIL IS A WOODEN RAIL WITH STEEL POSTS. THE STEEL POSTS ARE WELDED TO A STEEL BEAM CURB THAT IS WELDED TO THE GRID DECK. THE EXISTING RAIL SHALL BE REMOVED WITHOUT DAMAGING THE EXISTING STRUCTURE TO BE SALVAGED. PAYMENT FOR THE REMOVAL OF THE RAIL SHALL BE CONSIDERED INCIDENTAL TO RELATED ITEMS.
7. MATERIALS REMOVED FROM THE SUPERSTRUCTURE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
8. EXISTING 1" x 16" x 16" BEARING PLATES TO BE REMOVED



BRIDGE PLAN

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
017873.00  
BRIDGE NO. 1219  
WIN  
17873.00  
BRIDGE PLANS

DESIGN: JWH  
CHECKED: JWH  
DESIGNED: JWH  
DATE: NOV 2011  
SIGNATURE: JWH  
P.E. NUMBER: 9099  
DATE: 11/2011

PROJ. MANAGER: [ ]  
DESIGN: [ ]  
CHECKED: [ ]  
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FIELD CHANGES: [ ]

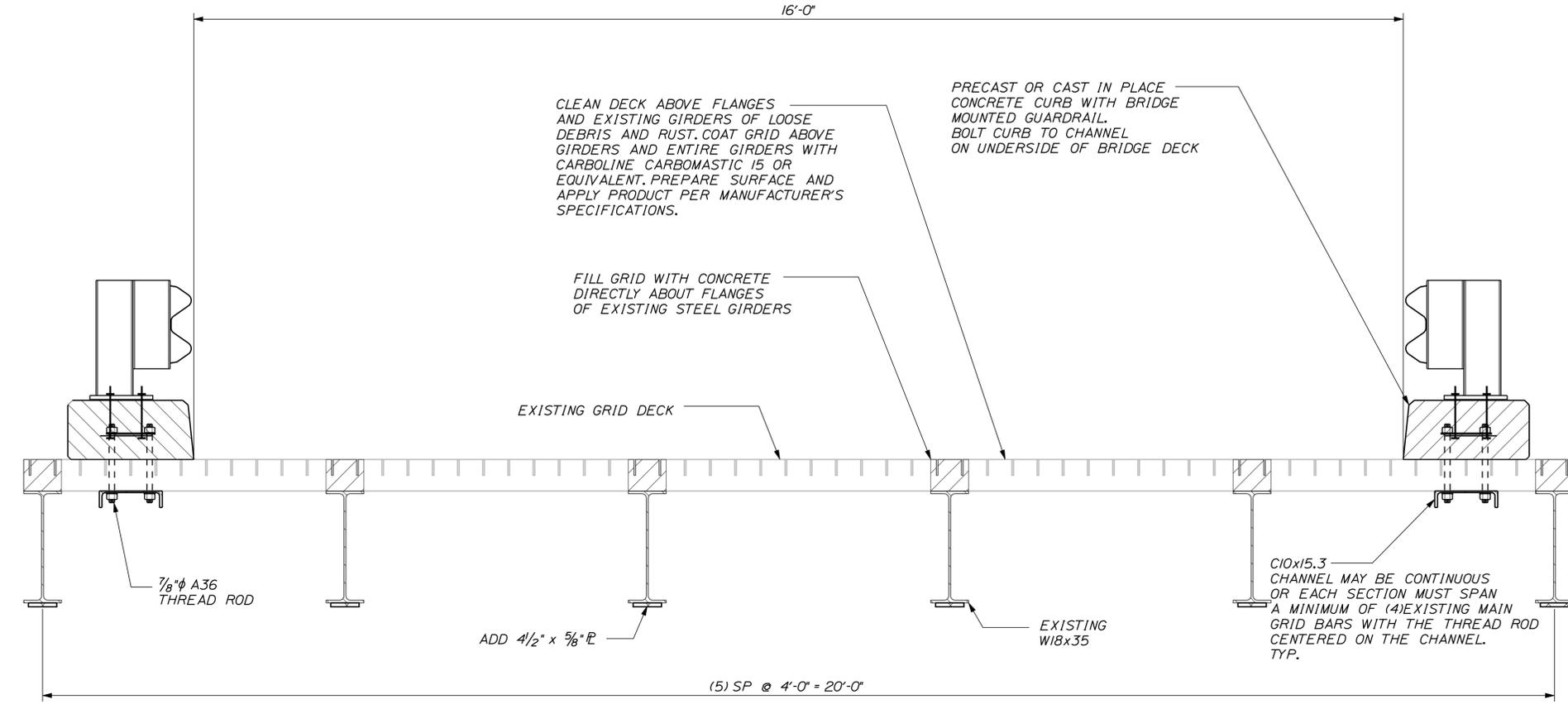
FORD BRIDGE  
OVER LITTLE RIVER  
LEBANON YORK COUNTY  
SUPERSTRUCTURE

SHEET NUMBER  
12  
OF 17



SUPERSTRUCTURE NOTES

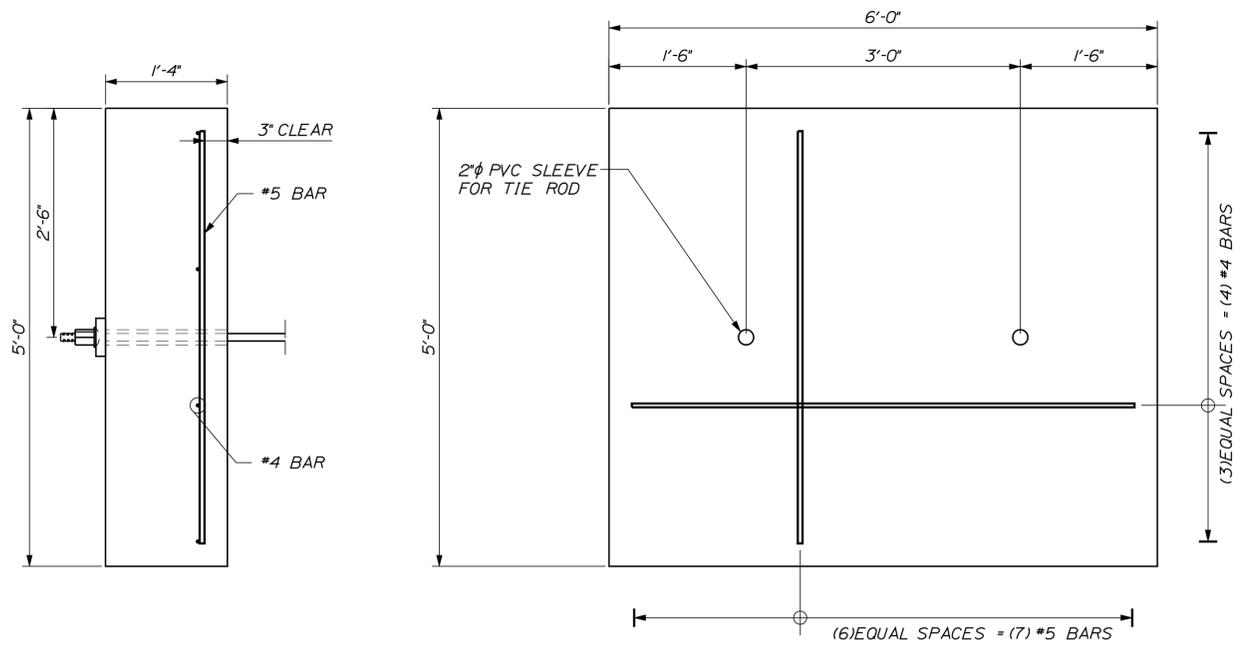
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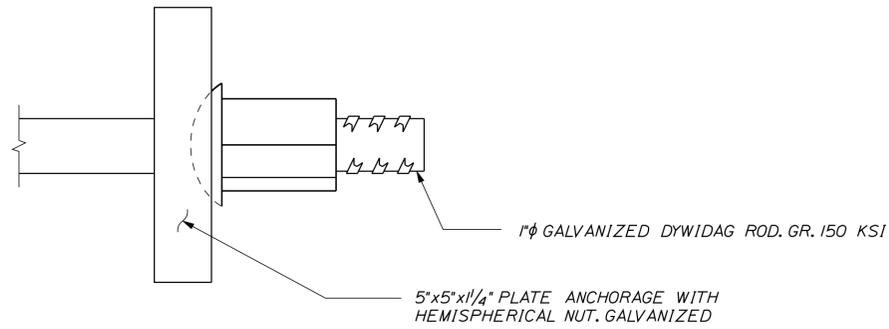
TYPICAL SECTION

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		017873.00		BRIDGE NO. 1219		BRIDGE PLANS	
FORD BRIDGE		OVER LITTLE RIVER		YORK COUNTY		LEBANON		SUPERSTRUCTURE	
PROJ. MANAGER	DESIGN DETAILED	CHKD	BY	DATE	SIGNATURE	P.E. NUMBER	DATE		
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	DESIGN DETAILED	GM	JUH	DEC. 2011					
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SHEET NUMBER		13							
OF 17									

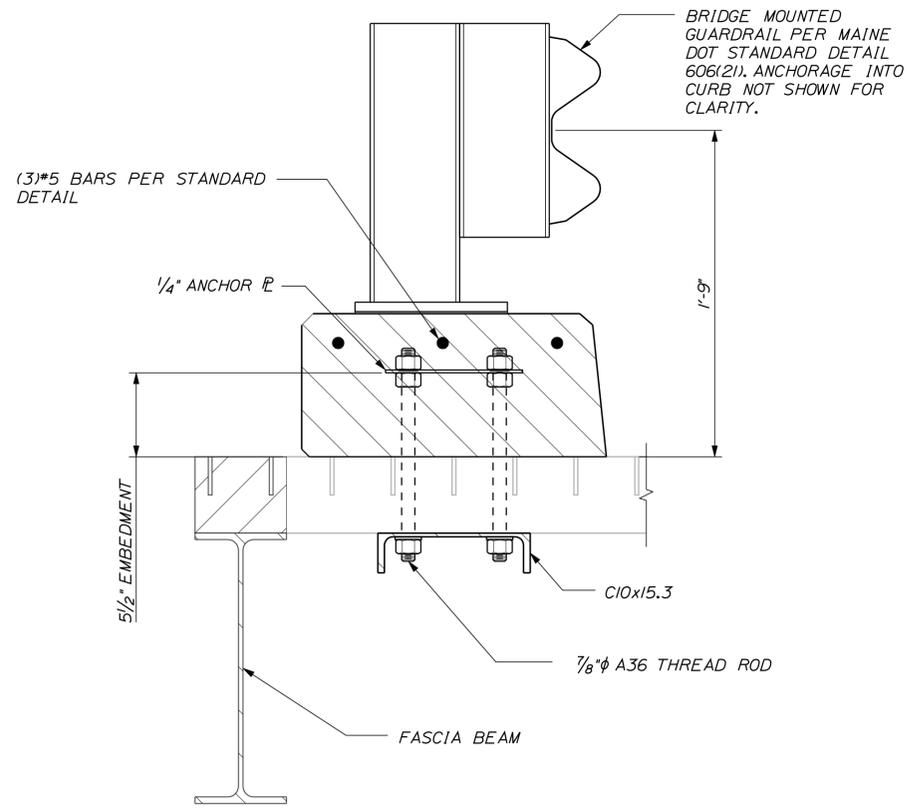




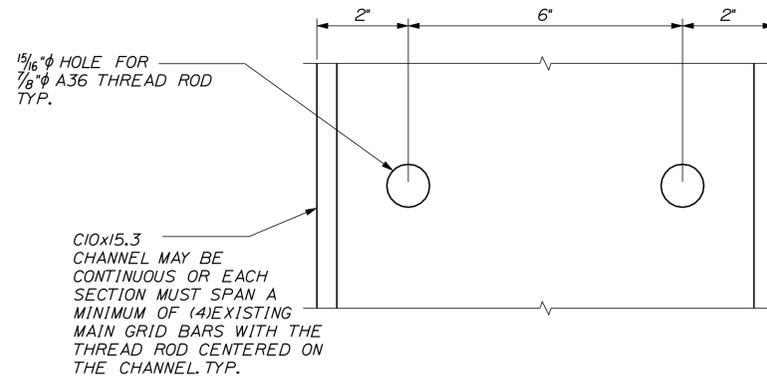
DEADMAN PLAN AND SECTION



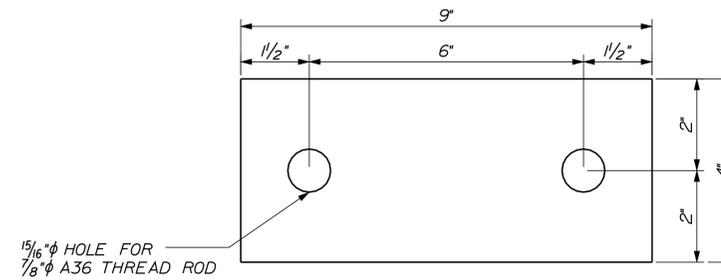
TIE ROD ANCHOR DETAIL



BRIDGE RAIL



CHANNEL DETAIL



1/4" ANCHOR PLATE DETAIL

BRIDGE MOUNTED GUARDRAIL PER MAINE DOT STANDARD DETAIL 606(2). ANCHORAGE INTO CURB NOT SHOWN FOR CLARITY.

STATE OF MAINE	BRIDGE NO. 1219	BRIDGE PLANS
DEPARTMENT OF TRANSPORTATION	WIN	17873.00
	017873.00	

PROJ. MANAGER	BY	DATE	SIGNATURE
DESIGN DETAILED	CHK	NOV. 2011	
CHECKED-REVIEWED	JUH	DEC. 2011	
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

FORD BRIDGE	YORK COUNTY
OVER LITTLE RIVER	
LEBANON	MISCELLANEOUS DETAILS

SHEET NUMBER
14
OF 17

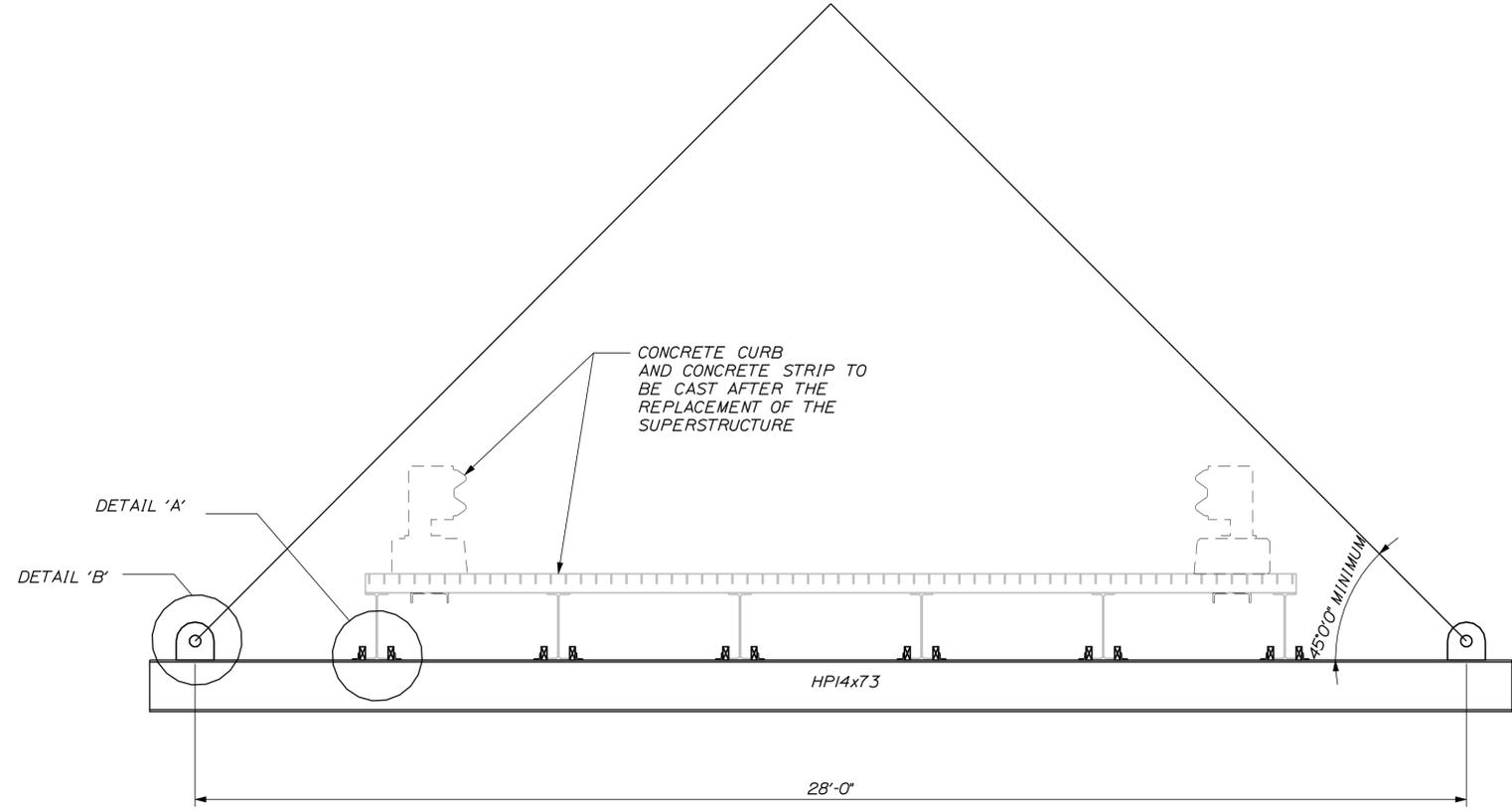


Date: 1/11/2012

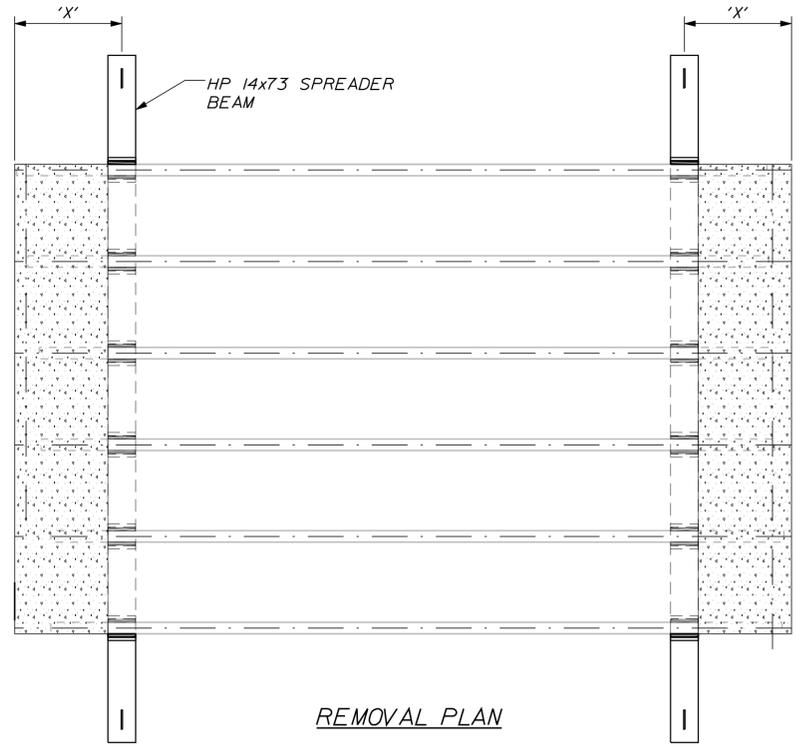
Username: Coy.Williams

Division: BRIDGE

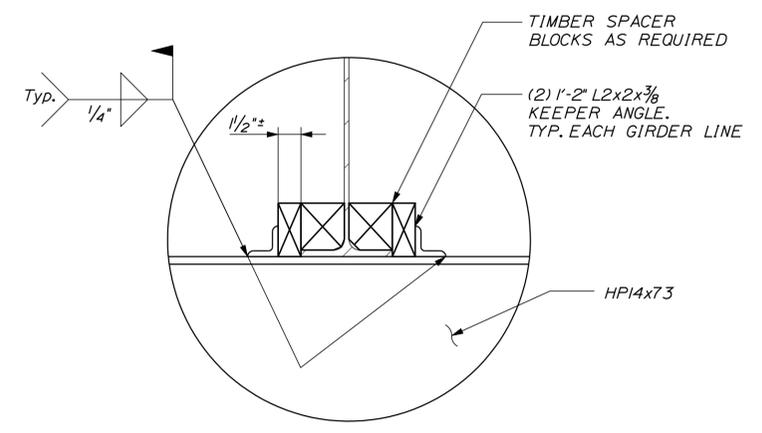
Filename: ... \00\bridge\msto\015\_Lifting.dgn



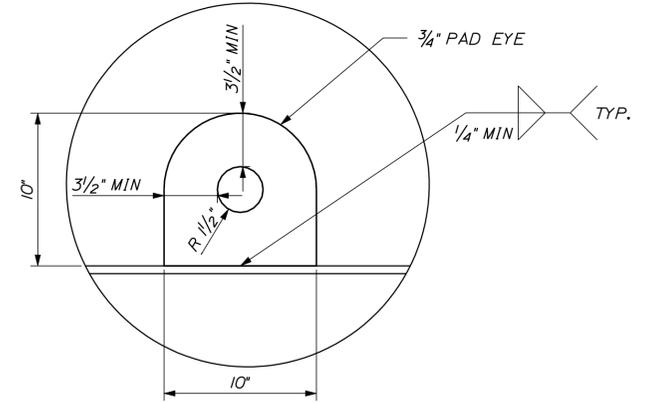
LIFTING SECTION



REMOVAL PLAN



DETAIL A



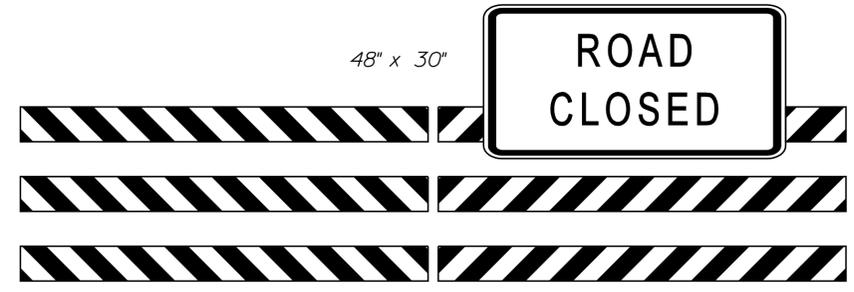
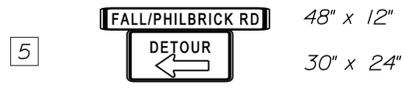
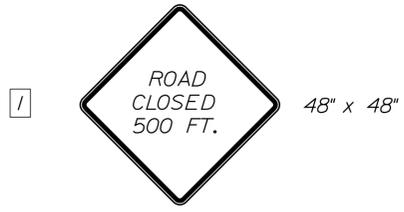
DETAIL 'B'

PIER NOTES

1. CONTRACTOR TO VERIFY THAT THE BRIDGE IS SECURED LONGITUDINALLY AT ALL TIMES DURING THE PICKING PROCESS.
2. CONTRACTOR MAY PROPOSE AN ALTERNATE LIFTING PROCEDURE FOR CONSIDERATION BY THE DEPARTMENT.
3. ALL MATERIALS SHALL BE NEW OR USED AND IN GOOD CONDITION. USED MATERIALS IN GOOD CONDITION WILL BE CONSIDERED ON A CASE BY CASE BASIS.
4. ESTIMATED WEIGHT OF SUPERSTRUCTURE IS 40,000 LBS.

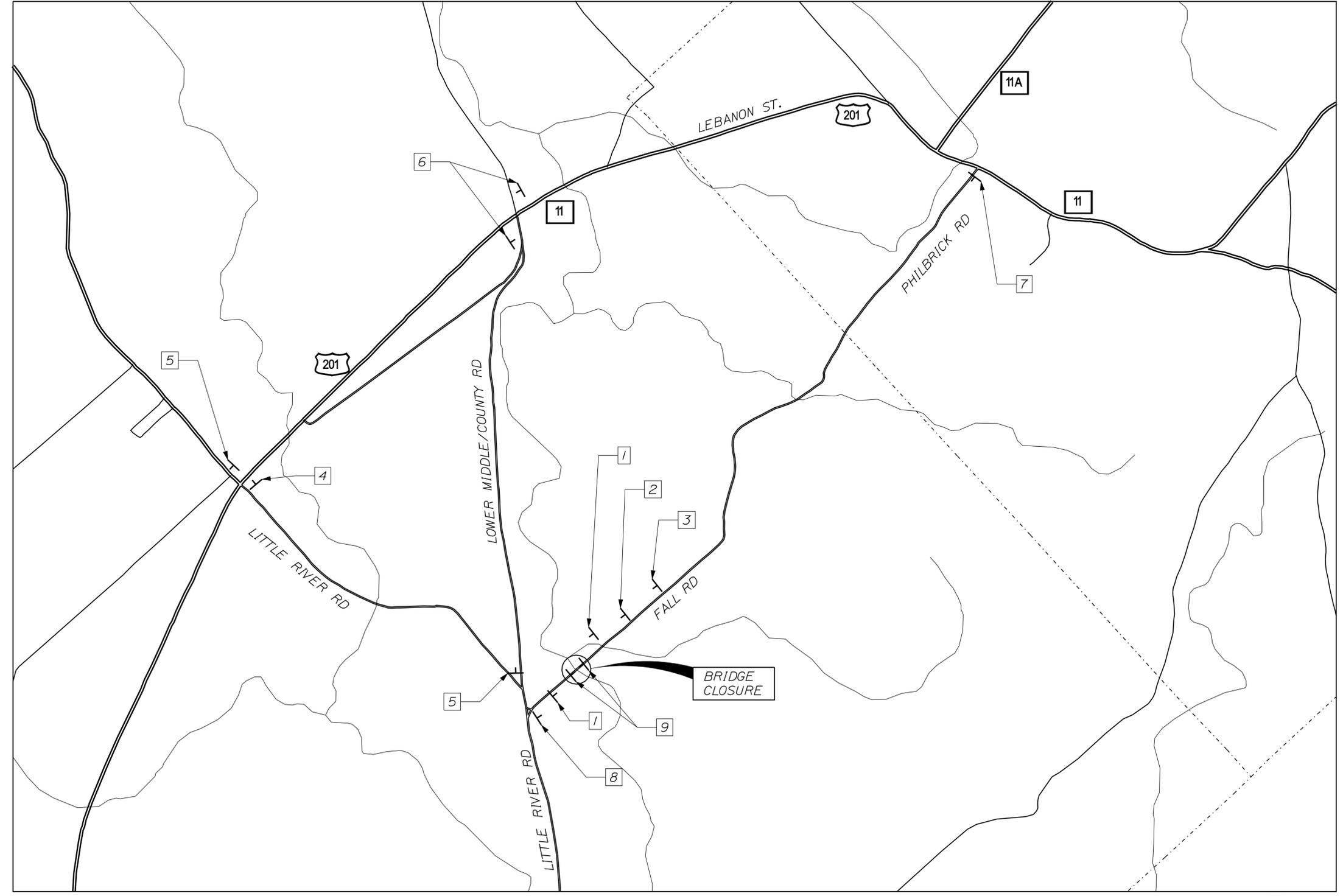


STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		017873.00	
LEBANON		YORK COUNTY		BRIDGE NO. 1219	
FORD BRIDGE OVER LITTLE RIVER		LIFTING PLAN		WIN 17873.00	
SHEET NUMBER		15		BRIDGE PLANS	
PROJ. MANAGER		DATE		SIGNATURE	
DESIGN DETAILED	NOV. 2011	[Signature]		P.E. NUMBER	
CHECKED-REVIEWED	DEC. 2011	[Signature]		DATE	
DESIGN DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					



**DETOUR NOTES**

1. During the period of road closure the contractor shall block the road off with 30ft of temporary concrete barrier located behind the Type III Barricades (#9)
2. Road shall only be closed while school is not in session, as specified in the Special Provisions

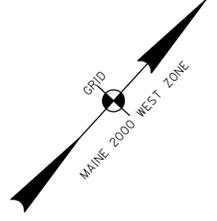


PROJ. MANAGER	DATE	BY	DATE
DESIGN DETAILED	NOV. 2011	LOCK	SIGNATURE
CHECKED/REVIEWED	DEC. 2011	JUH	9099
DESIGN DETAILED			P.E. NUMBER
DESIGN DETAILED			17/2011
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

FORD BRIDGE  
OVER LITTLE RIVER  
YORK COUNTY  
LEBANON  
DETOUR PLAN



Filename: ... \00\bridge\ms10.017\_RWPLAN1.dgn Division: BRIDGE Username: Coy.Williams Date: 1/11/2012



PLOT PLAN  
FOR SCOTT PELLETIER  
BY G. C. ENGINEERING INC.  
DATED APRIL 11, 2006  
ON FILE AT THE TOWN OF LEBANON

CHARLES M. TORNO  
SUZANNE A. TORNO  
TAX MAP/LOT - R8/69  
BOOK/PAGE - 1987/554  
POR NO. - 1

MICHAEL R. STAPLES  
LINDA M. STAPLES  
TAX MAP/LOT - R8/70  
BOOK/PAGE - 9615/2  
BOOK/PAGE - 9671/311  
POR NO. - 2

SCOTT M. PELLETIER  
CYNTHIA A. PELLETIER  
TAX MAP/LOT - R8/71  
BOOK/PAGE - 7654/71  
POR NO. - 5

DENNIS P. MARSHALL  
JANICE G. MARSHALL  
TAX MAP/LOT - R8/72  
BOOK/PAGE - 10971/121

DENNIS P. MARSHALL  
JANICE G. L. MARSHALL  
TAX MAP/LOT - R1/8A  
BOOK/PAGE - 5844/155  
POR NO. - 6

CONCRETE CABLE MAT ARMORFLEX OR EQUIVALENT PLACED ACROSS ENTIRE CHANNEL FROM ONE ABUTMENT TO THE OTHER. INSTALLATION IS TO BE DONE AT LOW-FLOW STREAM CONDITIONS DURING THE IN-STREAM WORK WINDOW. A BOOM SUPPORTED FLOATING SILT FENCE IS TO BE USED AS REQUIRED. APPROXIMATELY 1250SF OF MAT. LIMITS SHOWN ARE APPROXIMATELY 17' DOWNSTREAM AND 25' UPSTREAM FROM THE CENTERLINE OF CONSTRUCTION/ROADWAY

JASON J. ST. PIERRE  
KRISTIE L. JOHNSON  
TAX MAP/LOT - R1/7  
BOOK/PAGE - 8245/65  
POR NO. - 3

EMIL E. BRAGDON  
TAX MAP/LOT - R1/8  
BOOK/PAGE - 2139/272  
POR NO. - 4

SITE PLAN

- NOTES
- EXISTING RIGHT OF WAY
    - YORK COUNTY COMMISSIONERS RECORDS VOLUME 13, PAGE 6 1792 3 & 4 RODS WIDE (49.5' & 66')
  - CONTROL INFORMATION
    - HORIZONTAL DATUM - US STATE PLANE NAD83(1996)  
ZONE - MAINE 2000 WEST ZONE  
VERTICAL DATUM - NAVD 88  
COMBINED SCALE FACTOR - 0.9999878
  - TOWN OF LEBANON
    - TAX MAPS R1 & R8

STATE OF MAINE  
REGISTRY OF DEEDS

COUNTY \_\_\_\_\_  
RECEIVED \_\_\_\_\_  
at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and recorded in  
Plan Book \_\_\_\_\_, Page \_\_\_\_\_  
Attest: \_\_\_\_\_ REGISTER

SYMBOLS

IP or PIP (IRON PIPE or PIN FOUND)	WELL (WELL)
ST. (SEPTIC TANK)	GRADING LIMIT LINE
ABM (TRAVERSE POINT)	CONSTRUCTION LIMIT LINE
W (WATER LINE)	PROPERTY LINE
G (GAS LINE)	LIMITS OF TROUGHT PORTION (L.O.T.P.)
E (ELECTRIC LINE)	EXISTING RIGHT OF WAY
T (TELEPHONE LINE)	NEW RIGHT OF WAY
S (SEWER LINE)	NEW ROW WITHIN EXIST. ROW
	CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	G.L.L.	C.W.K.
PROP. LINES	G.L.L.	
AREAS		

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016  
LEBANON  
RIGHT OF WAY MAP

WIN 17873.00

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

DAVID A. COLE  
COMMISSIONER  
KENNETH L. SWEENEY  
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.

FALL ROAD TOWNWAY		SHEET NUMBER <b>17</b> OF 17
LEBANON	YORK COUNTY	
FEDERAL AID PROJECT NO. BR-1787(300)X		
DECEMBER 2010	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 16-TBD
SCALE 1" = 25'	SHEET 1 OF 1	