STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLAN LEGEND

Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed
Culvert-Existing
Culvert Proposed
Curbing — Existing — Proposed
Type 1
Type 3
Type 5
Outline of Bodies of Water
Ledge
Buildings
Trees — Conifer — Deciduous
Tree Line
Clearing Limit Line — CLL
Centerline-Existing
Centerline-Proposed — 10+00
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins — Existing — Proposed
Manholes — Existing — Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utlity Poles — Existing — Proposed
Fire Hydrants — Existing — Proposed
Existing Water Line — W
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

SOUTH BERWICK

YORK COUNTY

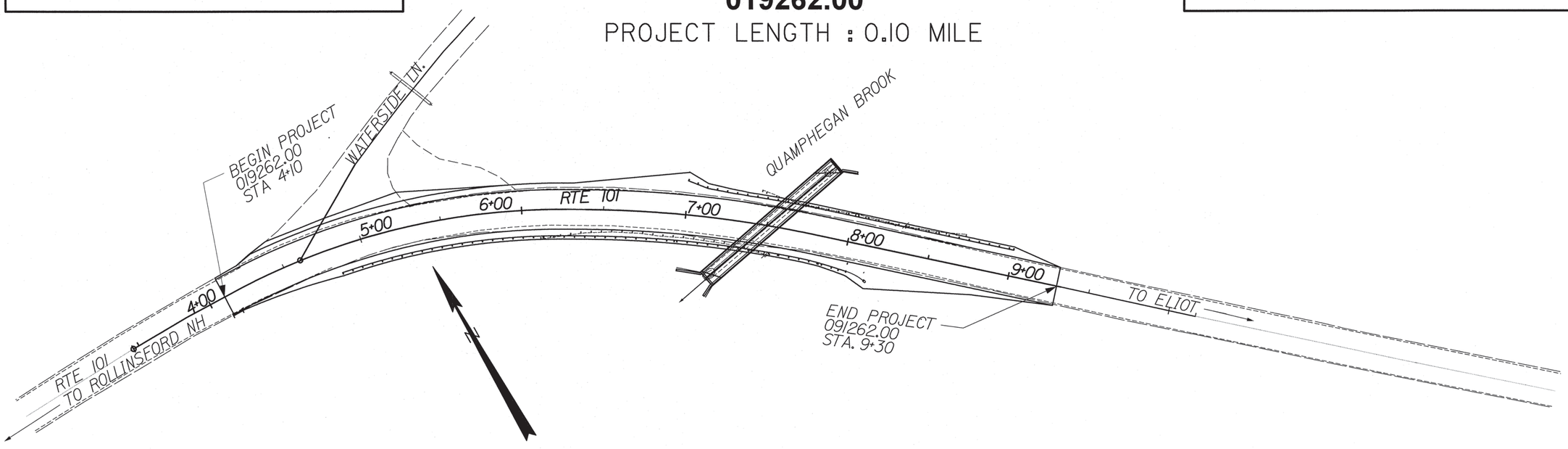
ROUTE 101

019262.00

PROJECT LENGTH : 0.10 MILE

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2-5
Estimated Quantities	6
General Notes	7
Drainage / Geotech	8
Geotechnical Notes	9
Plan / Profile	10
Cross - Sections	11-22
Right of Way Map	23



TRAFFIC DATA

Current (2011) AADT	4880
Future (2023) AADT	5470
DHV - % of AADT	13%
Design Hour Volume	711
% Heavy Trucks (AADT)	5%
% Heavy Trucks (DHV)	3%
Directional Distribution (DHV)	60%
18 kip Equivalent P 2.0	162
18 kip Equivalent P 2.5	154
Design Speed (mph)	35
Functional Class:	Major Collector
Corridor Priority	4

LAYOUT SCALE

30 0 30 60

Scale in Feet

PROJECT LOCATION:	Beginning 0.01 miles north of Waterside Ln. and extending south 0.10 miles
PROGRAM AREA:	Highway Program
SCOPE OF WORK:	Large Culvert Replacement

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE
COMMISSIONER: 4/28/15
CHIEF ENGINEER: 4-28-15

STATE OF MAINE — LARRY HAMILTON — No. 7115 — PROFESSIONAL ENGINEER

SIGNATURE 7115
P.E. NUMBER
DATE 4-15-15

PROJECT INFORMATION

PROGRAM	HIGHWAY
PROJECT MANAGER	EMORY LOVELY
DESIGNER	EYITAYO ADANDE KWITI
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

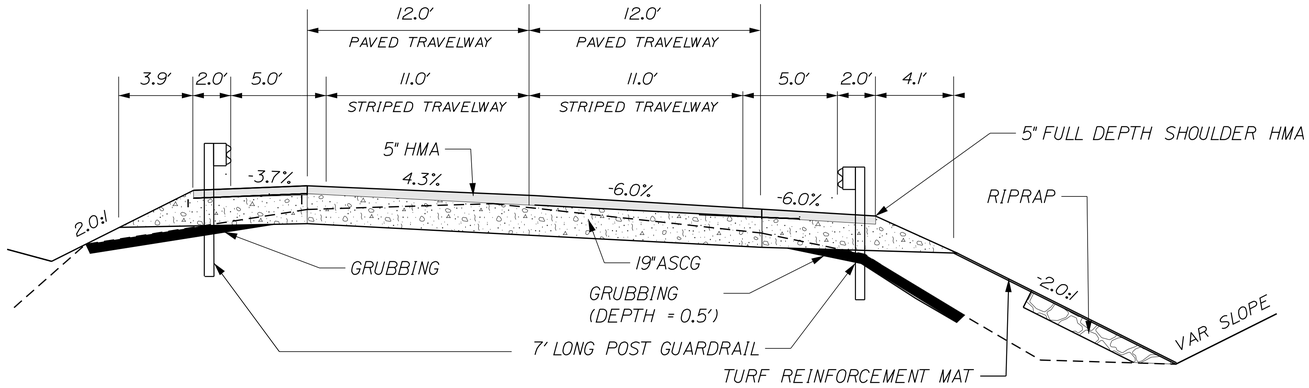
SOUTH BERWICK
ROUTE 101

TITLE SHEET

WIN 19262.00 019262.00

SHEET NUMBER
1
OF 23

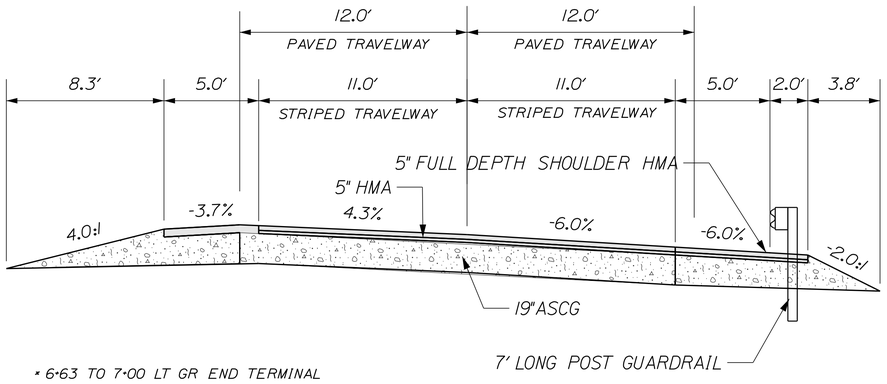
Filename: ...\MSTA\New Folder\001_Title.dgn Division: HIGHWAY Username: Date:4/15/2015



TYPICAL SECTION

** VARIABLE SLOPE SEE CROSS SLOPE TABLE. MAXIMUM SUPERELEVATION IS 6%

AGGREGATE SUBBASE COURSE GRAVEL		
LEFT SHOULDER 50 CY/100 LF	12 FT. TRAVEL LANES 125.95 CY/100 LF	RIGHT SHOULDER 50 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
		6+00 TO 7+00RT
7+00 TO 8+15 LT	7+00 TO 8+15	7+85 TO 8+15 RT
FULL CONSTRUCTION FROM STATION 5+21 TO 9+00		



* 6+63 TO 7+00 LT GR END TERMINAL

TYPICAL SECTION

WIDEN LT GUARDRAIL RT

AGGREGATE SUBBASE COURSE GRAVEL		
LEFT SHOULDER 87.11 CY/100 LF	12FT. TRAVEL LANES 125.95 CY/100 LF	RIGHT SHOULDER 55.11 CY/100 LF
STATION TO STATION	STATION TO STATION	STATION TO STATION
5+21 TO 6+63 LT		5+21 TO 6+00 RT
6+63 TO 7+00 LT	5+21 TO 7+00	7+00 TO 7+85 RT
	STATION TO STATION	

A.S.C.G : Aggregate Subbase Course, Gravel

NOTE:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.

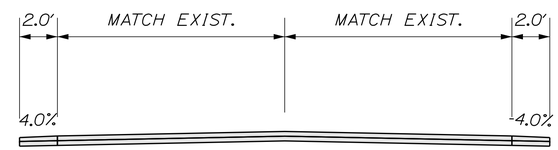
2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.

3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.

4. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2" LOAM OR DIRTY BORROW DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.

5. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

6. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.



TYPICAL SECTION

STATION TO STATION	STATION TO STATION
4+10 TO 4+25 LT	4+10 TO 4+25 RT
	9+00 TO 9+30 RT

LEFT CROSS SLOPE	STATION	RIGHT CROSS SLOPE	LEFT CROSS SLOPE	STATION	RIGHT CROSS SLOPE
3.4	04+10	-7.5	4.3	07+00	-6.0
4.0	04+50	-7.0	2.7	07+50	-6.0
4.0	05+00	-6.0	1.1	08+00	-4.3
4.3	05+50	-6.0	-0.5	08+50	-4.3
4.3	06+00	-6.0	-2.0	09+00	-4.3
4.3	06+50	-6.0	-1.9	09+30	-4.3

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EVITAYO ADK		2/2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

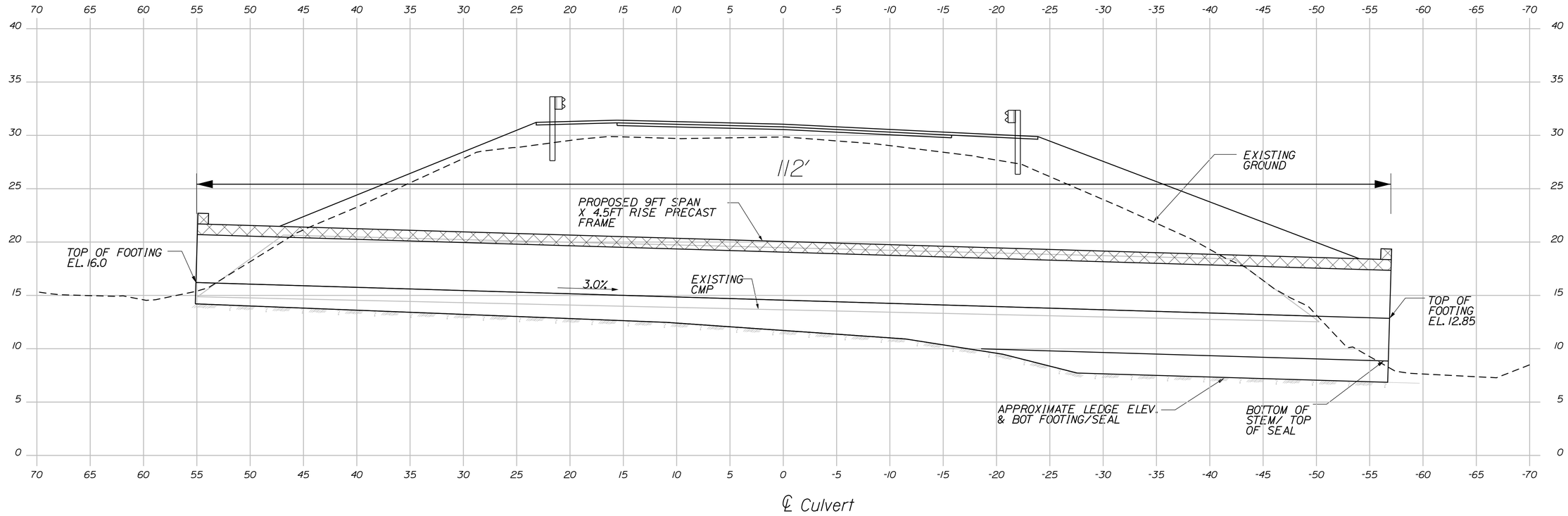
DATE

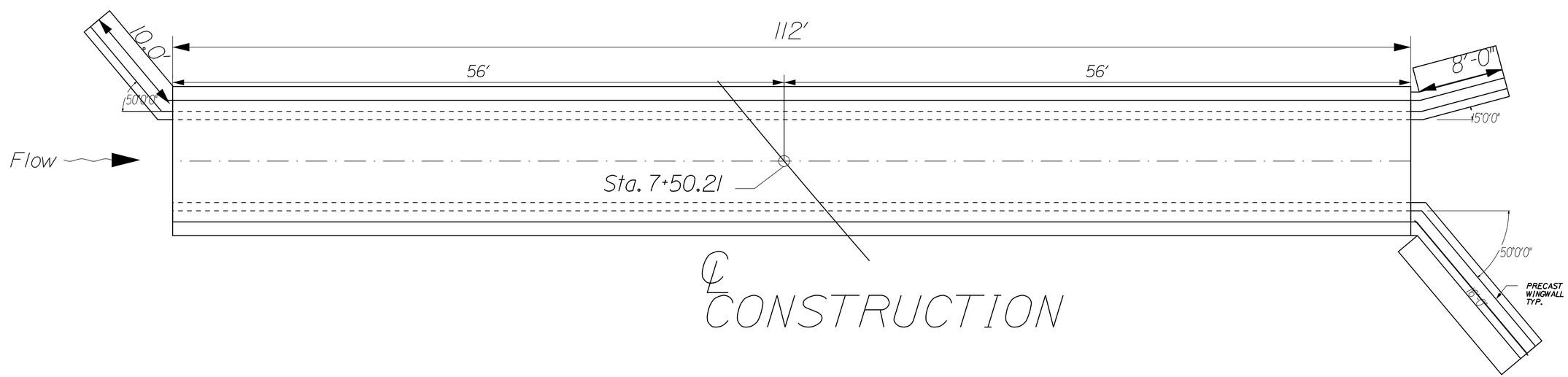
SOUTH BERWICK
ROUTE 101

TYPICAL SECTIONS

SHEET NUMBER
2
OF 23

Filename: ...\New Folder\002_Typical.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015





TYPICAL CULVERT SECTION

1" = 5'-0"

CMA ENGINEERS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	OGK		1/2015
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

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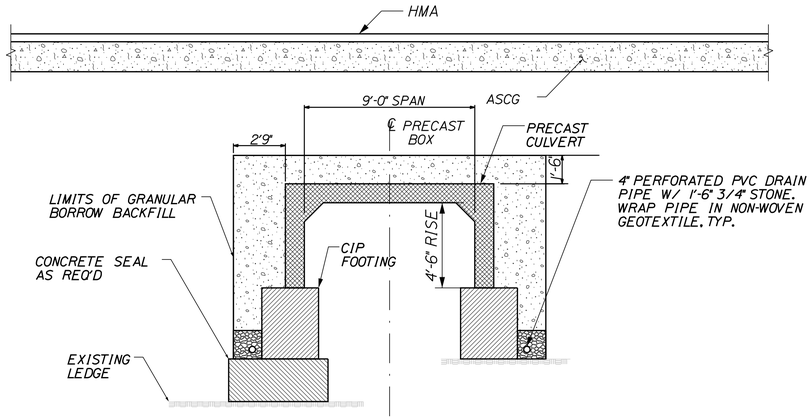
SOUTH BERWICK
ROUTE 101

TYPICAL SECTIONS

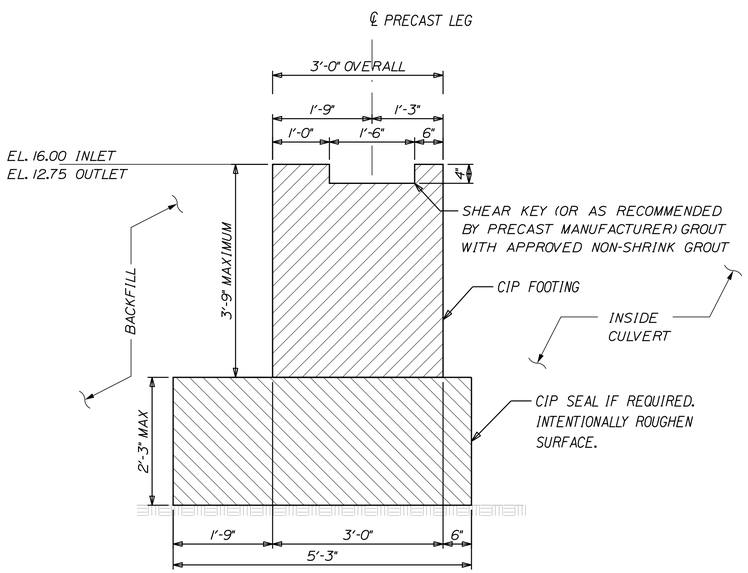
SHEET NUMBER
3
OF 23

Filename: ...\New Folder\003_Typical.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



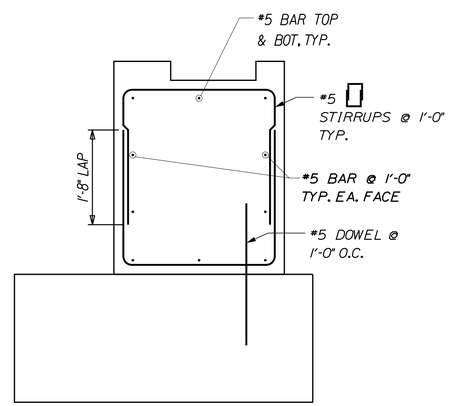
TYPICAL CULVERT SECTION

1/2" = 1'-0"



TYPICAL FOOTING

3/4" = 1'-0"



TYPICAL FOOTING REINFORCING

3/4" = 1'-0"

PRECAST CONCRETE BOX NOTES

1. The construction, handling, and assembly of the precast units shall be in accordance with Special Provision Section 534 Precast Structural Concrete, and with the Manufacturer's Specifications as applicable.
2. Install membrane waterproofing over the top and 1' down the exterior sides of the precast units.
3. Concrete shall have a minimum 28 Day strength of 5000psi.
4. CIP footing has been designed for the geometry indicated. Altnernate geometry may require alterations to footing geometry. Additional concrete due to altered box culvert geometry will be considered incidental to related items.

CIP FOOTING NOTES

1. Concrete shall have a minimum 28 Day strength of 4350psi.
2. Concrete seal shall have a 28 Day strength of 3000psi.
3. All loose weathered bedrock shall be removed.
4. All exposed bedrock shall be cleaned with high pressure water and air prior to placing concrete. Concrete footing shall be cast in the dry.
5. Any ledge that is steeper than 6H:1V shall be benched to level steps prior to casting footing.
6. Dimensions for seal shown are based on the concrete being cast in the dry and on prepared, clean ledge. If contractor wishes to cast in wet conditions a minimum of a 2.5ft heel will be required. Payment for additional concrete for a wider seal will be considered incidental to related items.
7. It is anticipated that minimum elevation of ledge will not require more than a 2'-3" thick seal. If ledge is lower than anticipated and a deeper seal is required contact Engineer of Record prior to placement of concrete fill.
8. Grouted shear key shall have a sloped finish such that water runs away from precast box.
9. Chamfer all exposed edges 3/4"
10. All reinforcement shall have 2"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	OGK		1/2015
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

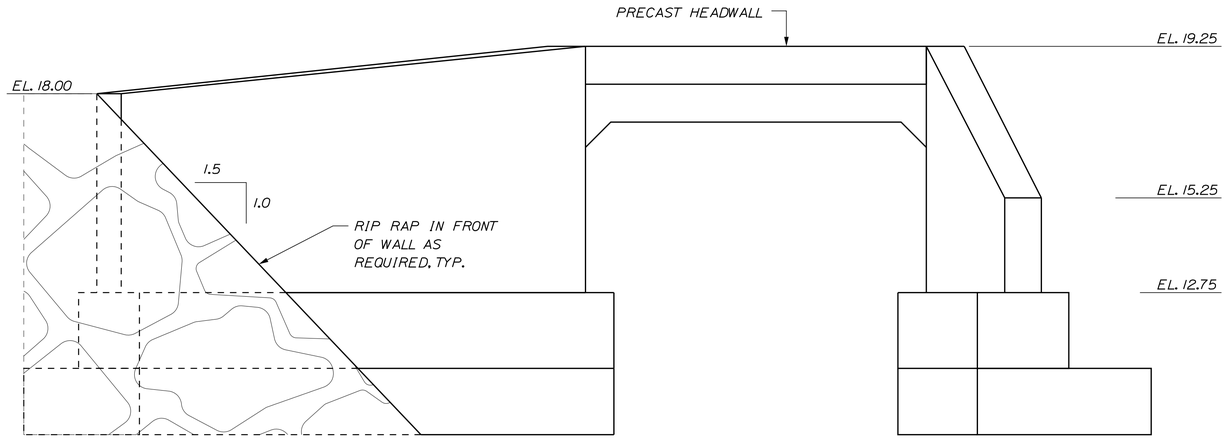
SOUTH BERWICK
ROUTE 101

TYPICAL SECTIONS

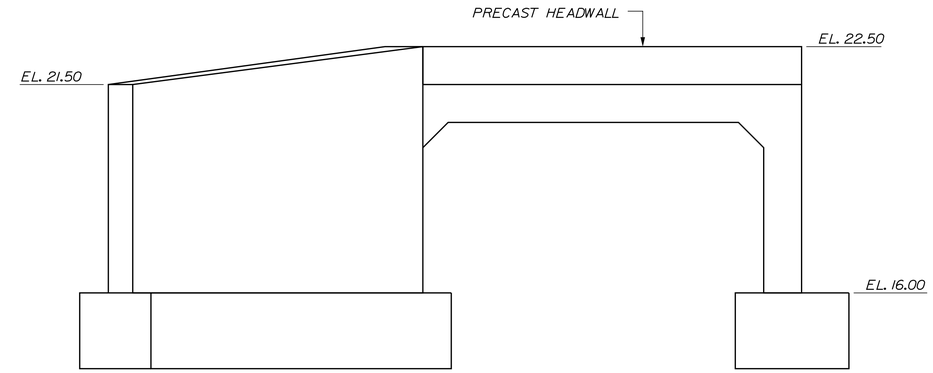
CMA ENGINEERS

SHEET NUMBER
4
OF 23

Filename: ...\New Folder\004_Typical.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



DOWNSTREAM ELEVATION
LOOKING UPSTREAM
1/2" = 1'-0"



UPSTREAM ELEVATION
LOOKING DOWNSTREAM
1/2" = 1'-0"

PREFABRICATED CONCRETE MODULAR GRAVITY WALL NOTES

1. The Contractor shall provide a Prefabricated Concrete Modular Gravity (PCMG) Wall in accordance with Special Provision Section 635. The PCMG Wall shall be designed and stamped by a Registered Professional Engineer and the design shall be submitted to the Resident for review. Plan details are shown for estimating purposes only.

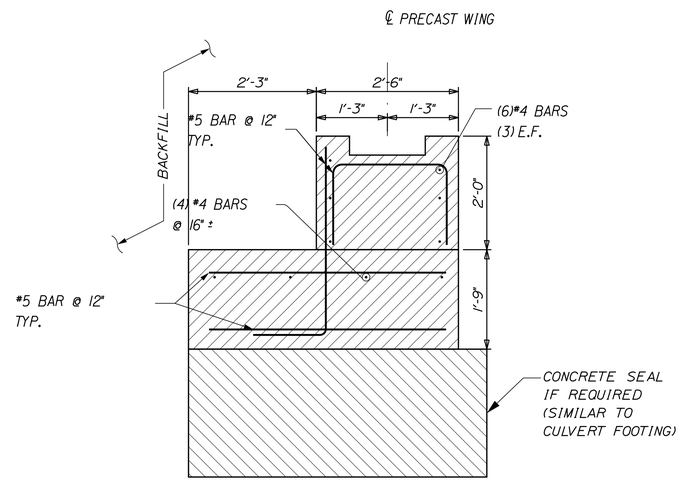
2. The precast units shall be one of the following, or equal:

"T-Wall" as manufactured by a licensed manufacturer of Neel Company

"DoubleWal" as manufactured by a licensed manufacturer of DoubleWal Corp., Plainville, Connecticut.

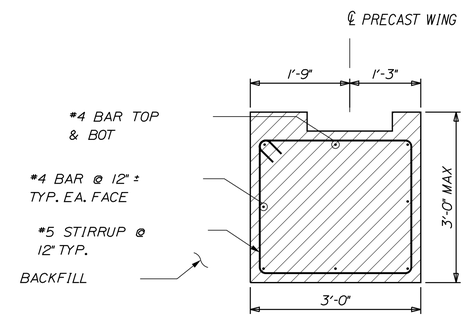
3. The factored bearing pressure for PCMG Walls shall not exceed the factored bearing resistance of 13 ksf for the strength limit state. The factored bearing pressure for the service limit state shall not exceed the factored bearing resistance of 10 ksf.

4. Cofferdams for the PCMG Wall installation will be included with Pay Item No. 511.07, Cofferdam.



TYPICAL DOWNSTREAM WINGWALL FOOTING

3/4" = 1'-0"



TYPICAL UPSTREAM WINGWALL FOOTING

3/4" = 1'-0"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

HIGHWAY PLANS

WIN 19262.00

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	OGK		1/2015
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SOUTH BERWICK
ROUTE 101

TYPICAL SECTIONS

CMA ENGINEERS

SHEET NUMBER
5
OF 23

Filename: ...\New Folder\005_Typical.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	1	EA
201.24	REMOVING STUMP	1	EA
202.203	PAVEMENT BUTT JOINTS	10	SY
203.20	COMMON EXCAVATION	1,355	CY
203.24	COMMON BORROW	401	CY
203.25	GRANULAR BORROW	280	CY
203.33	SPECIAL FILL	75	CY
206.0619	STRUCTURAL ROCK EXCAVATION- BELOW GRADE	78	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	621	CY
403.208	HOT MIX ASPHALT, 12.5 MM HMA SURFACE	170	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	390	T
409.15	BITUMINOUS TACK COAT, APPLIED	101	GA
502.21	STRUCTURAL CONCRETE ABUTMENTS AND RETAINING WALLS	95	CY
502.56	CONCRETE FILL	40	CY
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED.	6,225	LB
503.13	REINFORCING STEEL, PLACING	6,225	LB
508.13	SHEET WATERPROOFING MEMBRANE	1	LS
511.07	COFFERDAM UPSTREAM	1	LS
511.07	COFFERDAM DOWNSTREAM	1	LS
515.20	PROTECTIVE COATING FOR CONCRETE SURFACE	40	SY
526.301	TEMPORARY CONCRETE BARRIER TYPE 1	60	LF
534.71	PRECAST CONCRETE BOX CULVERT	1	LS
605.07	4" UNDERDRAIN PIPE	260	LF
606.234	GUARDRAIL TYPE 3C -SINGLE RAIL- 7" POST	450	LF
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.79	GUARDRAIL 350 FLARED TERMINAL	2	EA
606.81	TANGENT GUARDRAIL TERMINAL - ENERGY ABSORBING	2	EA
610.08	PLAIN RIPRAP	37	CY
610.16	HEAVY RIPRAP	30	CY
610.18	STONE DITCH PROTECTION	37	CY
613.319	EROSION CONTROL BLANKET	1,400	SY
613.40	TURF REINFORCEMENT MAT (TRM)	166	SY
615.07	LOAM	225	CY
618.13	SEEDING METHOD NUMBER 1	2	UN
618.14	SEEDING METHOD NUMBER 2	18	UN
619.12	MULCH	20	UN
619.14	EROSION CONTROL MIX	10	UN
620.54	STABILIZATION/REINFORCMENT GEOTEXTILE	500	SY
621.053	EVERGREEN TREE 10-12' GROUP B	1	EA
627.733	4 INCH WHITE OR YELLOW PAVEMENT MARKING LINE	1,875	LF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE	1,875	LF
629.05	HAND LABOR, STRAIGHT TIME	25	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDES OPERATOR)	10	HR
631.14	GRADER (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDES OPERATOR)	10	HR
631.18	CHAIN SAW RENTAL (INCLUDES OPERATOR)	10	HR
631.20	STUMP CHIPPER (INCLUDING OPERATORS)	10	HR
631.22	FRONT END LOADER (INCLUDES OPERATOR)	10	HR
635.14	PREFABRICATED CONCRETE MODULAR GRAVITY WALL	188	SF
639.19	FIELD OFFICE TYPE B	1	EA
652.311	TYPE II BARRICADE	5	EA
652.312	TYPE III BARRICADE	2	EA
652.33	DRUMS	10	EA
652.34	CONES	50	EA
652.35	CONSTRUCTION SIGNS	344	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	30	CD
652.38	FLAGGERS	300	HR
652.381	TRAFFIC OFFICERS	40	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION & WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	770	
	0	
GRUBBING IN FILL	404	
LOAM SALVAGE IN FILL	0	
UNDERCUT	407	
MUCK EXCAVATION	0	
CULVERT INLET AND OUTLET DITCHES	5	
PAVEMENT SALVAGE IN FILL	-231	
TOTAL COMMON EXCAVATION		1,355

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	863	
FILL FOR DRIVES	0	
GRUBBING IN FILL	404	
LOAM SALVAGE IN FILL	0	
UNDERCUT	407	
MUCK EXCAVATION	0	
PAVEMENT SALVAGE IN FILL	-231	
TOTAL FILL		1,443

ROCK EXCAVATION FOR ESTIMATE

ROCK EXCAVATION (FROM CROSS SECTIONS)	78	
ROCK EXCAVATION (BOULDERS)	0	
TOTAL ROCK EXCAVATION		78

UNCLASSIFIED EXCAVATION FOR ESTIMATE

TOTAL COMMON EXCAVATION	1,355	
TOTAL ROCK EXCAVATION	78	
TOTAL UNCLASSIFIED EXCAVATION		1,433

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		1,355
DEDUCTIONS:		
GRUBBING IN CUT	0	
GRUBBING IN FILL	404	
LOAM SALVAGE IN CUT	0	
LOAM SALVAGE IN FILL	0	
UNDERCUT	407	
MUCK EXCAVATION	0	
PAVEMENT SALVAGE (CUT & FILL)	-231	
(2) TOTAL DEDUCTIONS		580
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		775
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)		
TOTAL AVAILABLE NON-ROCK EXCAVATION		775

COMPUTATION OF WASTE STORAGE & WASTE MATERIAL

TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)		
GRUBBING IN CUT		
GRUBBING IN FILL	404	
UNDERCUT		
MUCK EXCAVATION		
TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL)		404
TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)		404

COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW TO REPLACE MUCK		
GRANULAR BORROW IN LOW WET AREAS	280	
GRANULAR BORROW TO UPGRADE EXCAVATION		
GRANULAR BORROW TO MAINTAIN TRAFFIC		
GRANULAR BORROW FOR UNDERCUTTING		
GRANULAR BORROW =	280 x 1.15=	322

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL			1,443
TOTAL AVAIL. NON-ROCK EXCAV.	775 x 0.85 =	659	
TOTAL AVAIL. ROCK EXCAV.	78 x 1.33 =	104	
TOTAL AVAIL. STR. ROCK EXCAV.	x 1.33 =	0	
TOTAL WASTE MATERIAL TO BE UTILIZED	0 x 1 =	0	
(4)TOTAL AVAILABLE EXCAVATION		=	762
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION			681

IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL, PLUS TOTAL WASTE MATERIAL TO BE WASTED (DISPOSED OF?) -277

GRANULAR BORROW IN LOW WET AREAS		280
GRANULAR BORROW TO UPGRADE EXCAVATION		0
GRANULAR BORROW TO MAINTAIN TRAFFIC		0
TOTAL FILL MINUS REQUIRED GRAN. BORR. WITHIN FILL		401
COMMON BORROW =	401 x 1.15 =	461

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EYITAYO ADK		2/2014
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SOUTH BERWICK
ROUTE 101

ESTIMATED QUANTITIES

SHEET NUMBER
6
OF 23

Filename: ...\New Folder\006_Estimate.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015

GENERAL NOTES

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:
   CENTRAL MAINE POWER COMPANY
   COMCAST AND FAIRPOINT

2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.

3. ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE MADE UNDER ITEM 202.203 PAVEMENT BUTT JOINT.

4. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

5. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.

6. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT. ESTIMATED GRUBBING DEPTHS ARE 6" INCHES IN FIELD AREAS AND 12 INCHES IN WOODED AREAS.

7. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.

8. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL PAID FOR AS GRANULAR BORROW.

9. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

10. EXISTING INSLOPES STEEPER THAN 2:1 IN PROPOSED FILL AREAS SHALL BE BENCHED AS DIRECTED BY THE RESIDENT.

11. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 2" HOT MIX ASPHALT AND 12" AGGREGATE SUBBASE COURSE GRAVEL.

12. WHEN SUPER ELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE SHOULDER PAVEMENT WILL HAVE SAME SLOPE AS TRAVELED WAY.

13. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
   - ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS
   - ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT
   - ALL DITCHING AT PIPE ENDS
   - FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND/OR FILL MATERIAL INCLUDING GRANULAR BORROW UNDER PIPES AND FOR TEMPORARY DETOURS TO MAINTAIN TRAFFIC DURING PIPE INSTALLATION (EXCAVATION IS ALSO INCIDENTAL).
   - GRANULAR BORROW UNDER THE PIPE SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL
   - FLOW LINES MAY BE CHANGED BY 1.5 FT
   - ANY NECESSARY CLEARING OF BRUSH AND NON-PAY TREES AT CULVERT ENDS

14. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

15. INLETS AND OUTLETS OF ALL CULVERTS WITHIN THE WORK AREA SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

16. EXISTING ABANDONED WATER MAINS BROKEN BY THE CONTRACTOR DURING CONSTRUCTION SHALL HAVE THE ENDS PLUGGED WITH BRICK AND MORTAR. COST FOR ALL LABOR AND MATERIAL WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO DIRECT PAYMENT WILL BE MADE.

17. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

18. ALL EXISTING GUARDRAIL SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

19. HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

20. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END.

21. LOAM HAS BEEN ESTIMATED FOR DISTURBED SLOPE AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.

22. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL SLOPES.

23. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.

24. THE CONTRACTOR IS RESPONSIBLE FOR THE CAREFUL SIDE STAKING OF EXISTING CENTERLINE AS PER STANDARD SPECIFICATION 105.6.2. SIDE STAKES SHALL BE PLACED SAFELY OUTSIDE OF THE CONSTRUCTION LIMITS AND THE EXISTING CENTERLINE GRADES SHALL BE TRANSFERRED TO THESE STAKES. THESE STAKES AND GRADES WILL BE USED TO LAYOUT CENTERLINE AND DETERMINE NEW CONSTRUCTION FINISH GRADES FROM DIFFERENTIAL ELEVATION SHEETS FURNISHED BY MAINEDOT. ALL LAYOUT, STAKES, AND GRADES WILL BE CHECKED AND MUST BE ACCEPTABLE TO THE RESIDENT.

25. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

26. A COPY OF THE SOILS REPORT FOR THIS PROJECT IS AVAILABLE AT HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS. ALL COMPUTATION METHODS AND QUANTITIES USED FOR THE ENGINEER'S ESTIMATE FOR PLAN QUANTITY ITEMS ONLY ARE AVAILABLE BY CONTACTING REGION PROJECT MANAGER DENIS LOVELY AT 207-885-7000.

27. THE FILL QUANTITY SHOWN ON THE CROSS SECTIONS INCLUDES THE WASTE STORAGE.

28. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.

29. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEM.

30. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.

31. STATIONS REFERENCED ARE APPROXIMATE.

32. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.

33. NO WORK SHALL BE DONE OUTSIDE THE EXISTING RIGHT OF WAY WITHOUT PERMISSION FROM THE RESIDENT AFTER ACQUISITIONS HAVE BEEN FINALIZED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019262.00

WIN 19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EVITAYO ADK		2\2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SOUTH BERWICK
ROUTE 101

GENERAL NOTES

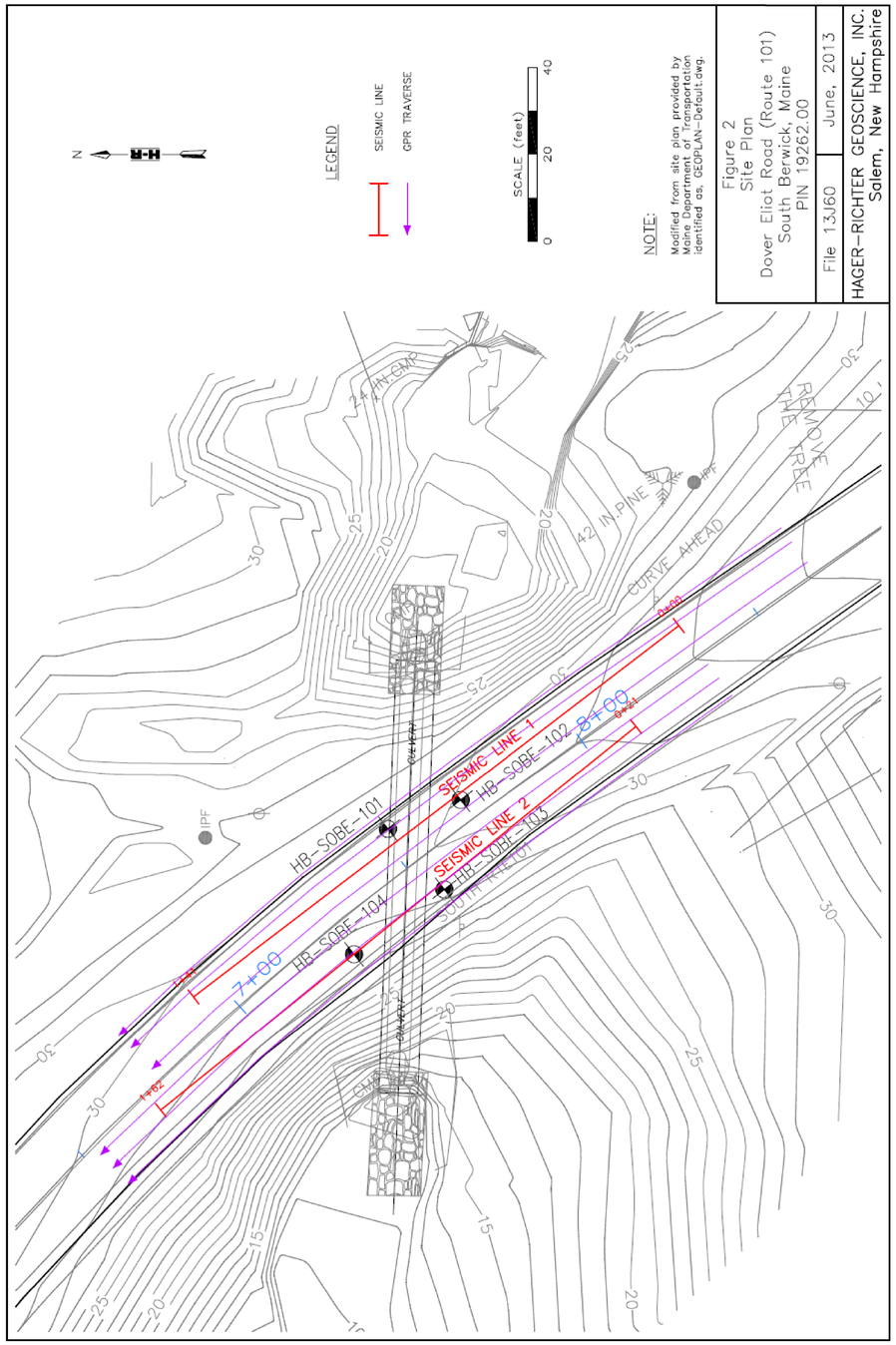
SHEET NUMBER

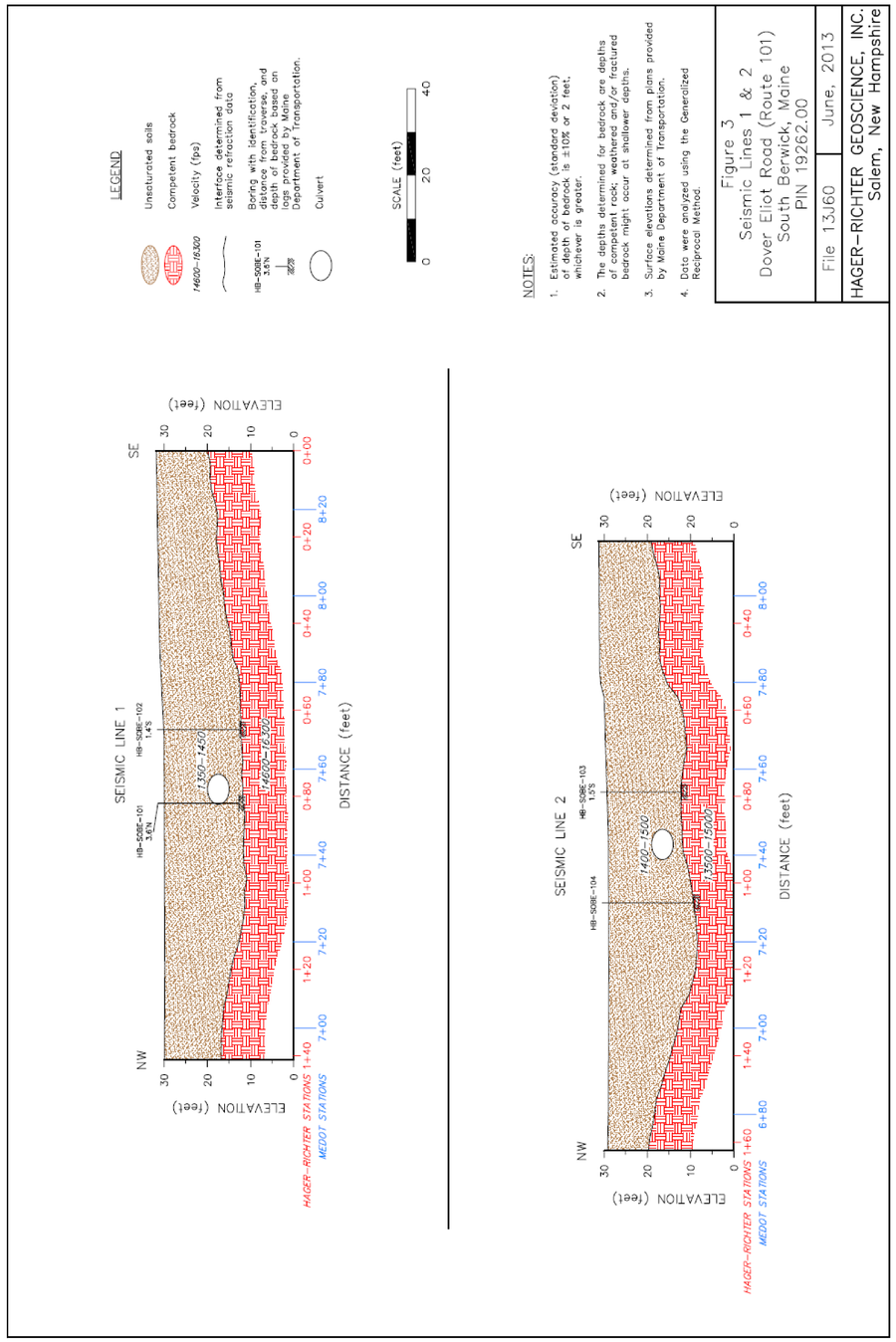
7

OF 23

Filename: ...\007_GeneralNotes.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015

STATION	CULVERT PIPE											CATCH BASIN					PIPE ARCH				MH	UNDERDRAIN						ELBOWS, TEES, WYES AND INLET GRATE UNITS	REMARKS
	RCP			CMP		OPTION I		OPTION III														TYPE B		TYPE C					
								SMOOTHLINED		CORRUGATED										GAGE OR WALL THICKNESS		TYPE B	OUTLET	SMOOTHLINED		CORRUGATED		DESCRIPTIONS	
	SIZE	LENGTH	CLASS	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	A1-C	B1-C		E	F	SPAN	RISE	LENGTH			LENGTH	LENGTH	SIZE	LENGTH	SIZE	LENGTH		
STA 7+14.32, 39.37 RT																												9' x 4.5' x 112' BOX	REPLACE EXISTING
TO STA.7+82, 40 LT																													CULVERT CMP





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	D. LOVELY		
DESIGN-DETAILED	EYITAYO ADK		2/2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SOUTH BERWICK ROUTE 101

DRAINAGE SHEET

SHEET NUMBER

8

OF 23

Filename: ...\008_Drainage Geotech.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015

Filename: ...\009_BORING LOGS1.dgn
Division: HIGHWAY
Username: katherine.s.gray
Date:4/30/2015

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Route 101 Strut
Location: South Berwick, Maine
Boring No.: HB-SOBE-104
WIN: 19262.00

Driller:	MaineDOT	Elevation (ft.)	28.5	Auger ID/OD:	5" Dia
Operator:	Giguere/Giles/Daggett	Datum:	NAVD88	Sampler:	N/A
Logged By:	B. Wilder	Rig Type:	CME 45C	Hammer Wt./Fall:	N/A
Date Start/Finish:	10/12/11-10/12/11	Drilling Method:	Solid Stem	Core Barrel:	N/A
Boring Location:	7+28, 8.0 ft Rt.	Casing ID/OD:	N/A	Water Level*:	None Observed

Definitions:
D = Split Spoon Sample S = Sample off Auger Flight
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods WOC = weight of casing

Definitions:
WC = water content, percent ? = Similar or Equal too
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA	28.00		6" PAVEMENT. 0.50	
									Brown, moist, gravelly, fine to coarse SAND, trace silt, (Fill).	
12.00							16.50		Brown, wet, fine sandy SILT, little clay.	
19.00							9.50		Bottom of Exploration at 19.00 feet below ground surface. REFUSAL	

Remarks:

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-SOBE-104

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Route 101 Strut
Location: South Berwick, Maine
Boring No.: HB-SOBE-101
WIN: 19262.00

Driller:	MaineDOT	Elevation (ft.)	30.0	Auger ID/OD:	5" Dia
Operator:	Giguere/Giles/Daggett	Datum:	NAVD88	Sampler:	N/A
Logged By:	B. Wilder	Rig Type:	CME 45C	Hammer Wt./Fall:	N/A
Date Start/Finish:	10/12/11-10/12/11	Drilling Method:	Solid Stem	Core Barrel:	N/A
Boring Location:	7+52, 10.0 ft Lt.	Casing ID/OD:	N/A	Water Level*:	None Observed

Definitions:
D = Split Spoon Sample S = Sample off Auger Flight
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods WOC = weight of casing

Definitions:
WC = water content, percent ? = Similar or Equal too
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA	29.50		6" PAVEMENT. 0.50	
									Brown, moist, gravelly, fine to coarse SAND, trace silt, (Fill).	
12.00							18.00		Brown, wet, fine sandy SILT, little clay.	
17.50							12.50		Bottom of Exploration at 17.50 feet below ground surface. REFUSAL	

Remarks:

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-SOBE-101

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Route 101 Strut
Location: South Berwick, Maine
Boring No.: HB-SOBE-103
WIN: 19262.00

Driller:	MaineDOT	Elevation (ft.)	29.2	Auger ID/OD:	5" Dia
Operator:	Giguere/Giles/Daggett	Datum:	NAVD88	Sampler:	N/A
Logged By:	B. Wilder	Rig Type:	CME 45C	Hammer Wt./Fall:	N/A
Date Start/Finish:	10/12/11-10/12/11	Drilling Method:	Solid Stem	Core Barrel:	N/A
Boring Location:	7+54, 9.0 ft Rt.	Casing ID/OD:	N/A	Water Level*:	None Observed

Definitions:
D = Split Spoon Sample S = Sample off Auger Flight
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods WOC = weight of casing

Definitions:
WC = water content, percent ? = Similar or Equal too
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA	28.70		6" PAVEMENT. 0.50	
									Brown, moist, gravelly, fine to coarse SAND, trace silt, (Fill).	
12.00							17.20		Brown, wet, fine sandy SILT, little clay.	
17.20							12.00		Bottom of Exploration at 17.20 feet below ground surface. REFUSAL	

Remarks:

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-SOBE-103

Maine Department of Transportation — Soil/Rock Exploration Log — US CUSTOMARY UNITS

Project: Route 101 Strut
Location: South Berwick, Maine
Boring No.: HB-SOBE-102
WIN: 19262.00

Driller:	MaineDOT	Elevation (ft.)	30.1	Auger ID/OD:	5" Dia
Operator:	Giguere/Giles/Daggett	Datum:	NAVD88	Sampler:	N/A
Logged By:	B. Wilder	Rig Type:	CME 45C	Hammer Wt./Fall:	N/A
Date Start/Finish:	10/12/11-10/12/11	Drilling Method:	Solid Stem	Core Barrel:	N/A
Boring Location:	7+70, 5.0 ft Lt.	Casing ID/OD:	N/A	Water Level*:	None Observed

Definitions:
D = Split Spoon Sample S = Sample off Auger Flight
MD = Unsuccessful Split Spoon Sample attempt
U = Thin Wall Tube Sample
R = Rock Core Sample
V = Insitu Vane Shear Test
SSA = Solid Stem Auger

Definitions:
S_u = Insitu Field Vane Shear Strength (psf)
T_v = Pocket Torvane Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
$S_{u(lab)}$ = Lab Vane Shear Strength (psf)
WOH = weight of 140lb. hammer
WOR = weight of rods WOC = weight of casing

Definitions:
WC = water content, percent ? = Similar or Equal too
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0						SSA	29.60		6" PAVEMENT. 0.50	
									Brown, moist, gravelly, fine to coarse SAND, trace silt, (Fill).	
12.00							18.10		Brown, wet, fine sandy SILT, little clay.	
17.70							12.40		Bottom of Exploration at 17.70 feet below ground surface. REFUSAL	

Remarks:

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1
Boring No.: HB-SOBE-102

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

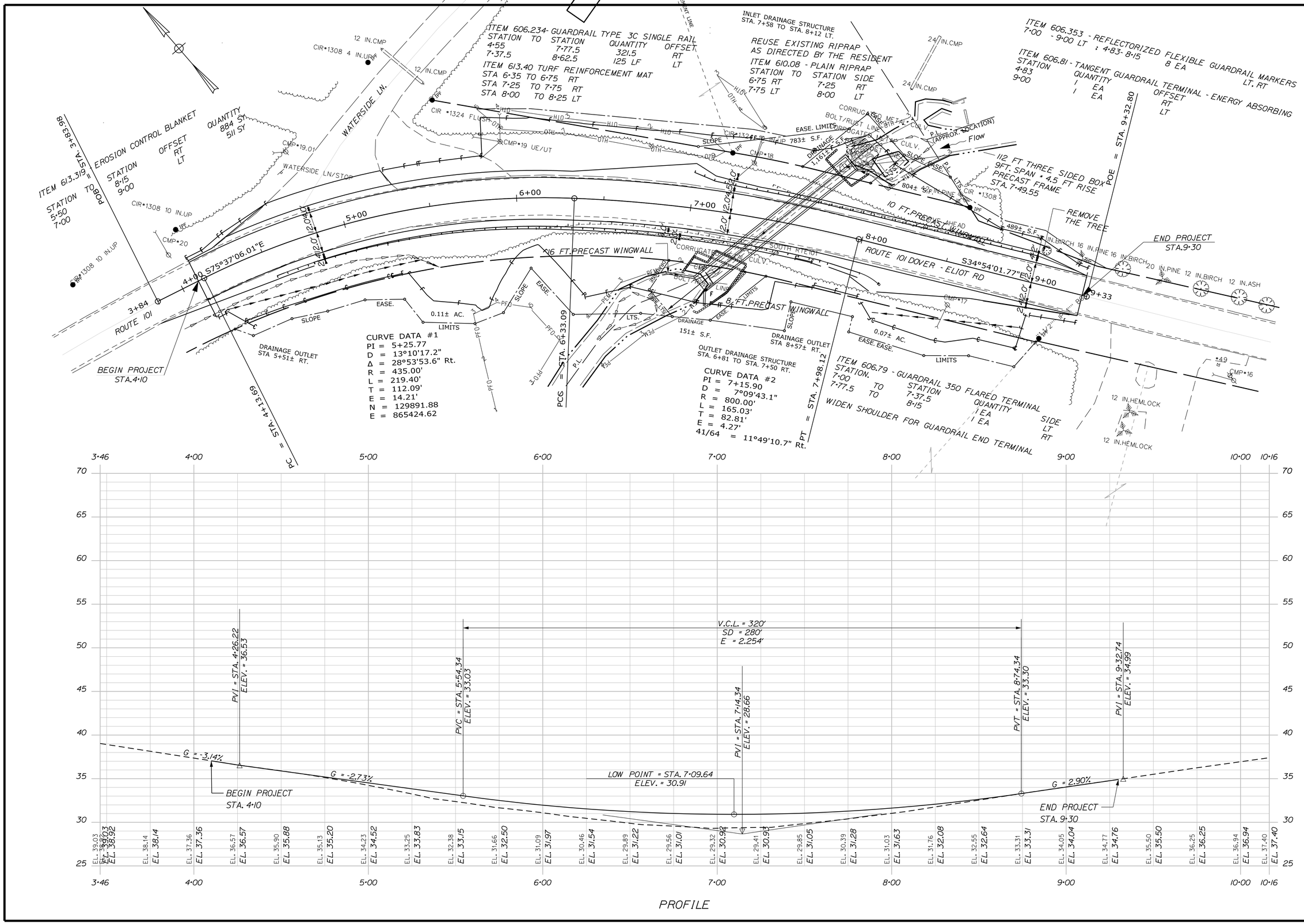
	BY	DATE
PROJ. MANAGER	D. LOVELY	
DESIGN-DETAILED	EYITAYO ADK	2\2014
CHECKED-REVIEWED	RKB	12/2013
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
P.E. NUMBER
DATE

SOUTH BERWICK
ROUTE 101

BORING LOGS

SHEET NUMBER
9
OF 23



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EVITAYO ADK		2/2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SOUTH BERWICK
ROUTE 101

PLANS

SHEET NUMBER
10
OF 23

STA. 3+46.26 TO STA. 10+16.43

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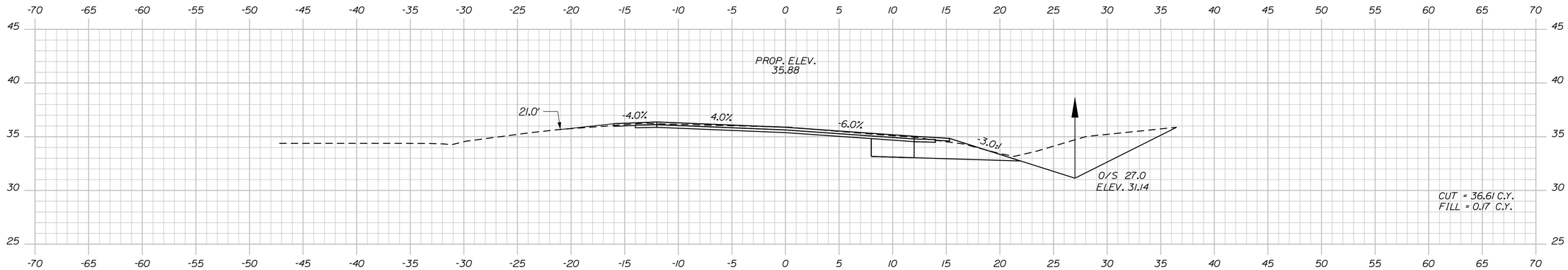

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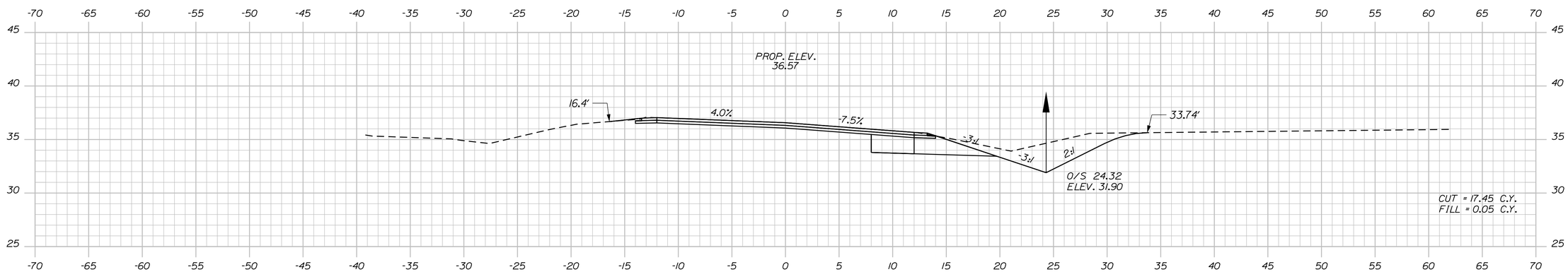

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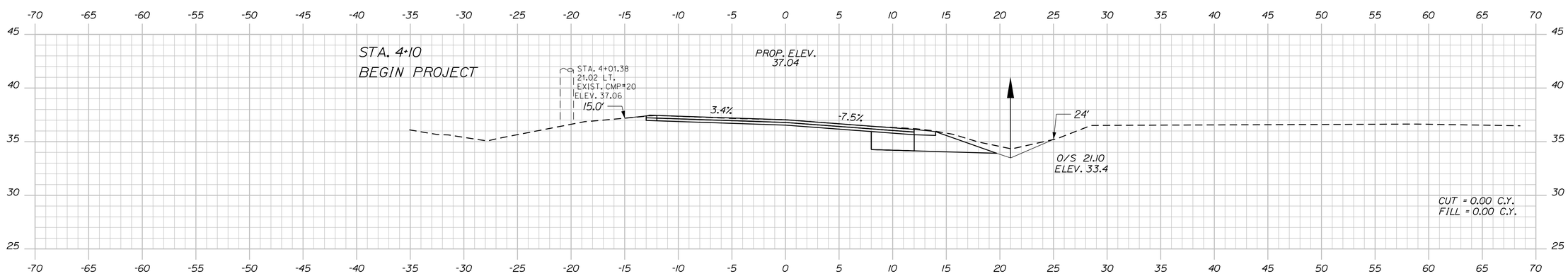

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EVITAYO ADK		2/2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

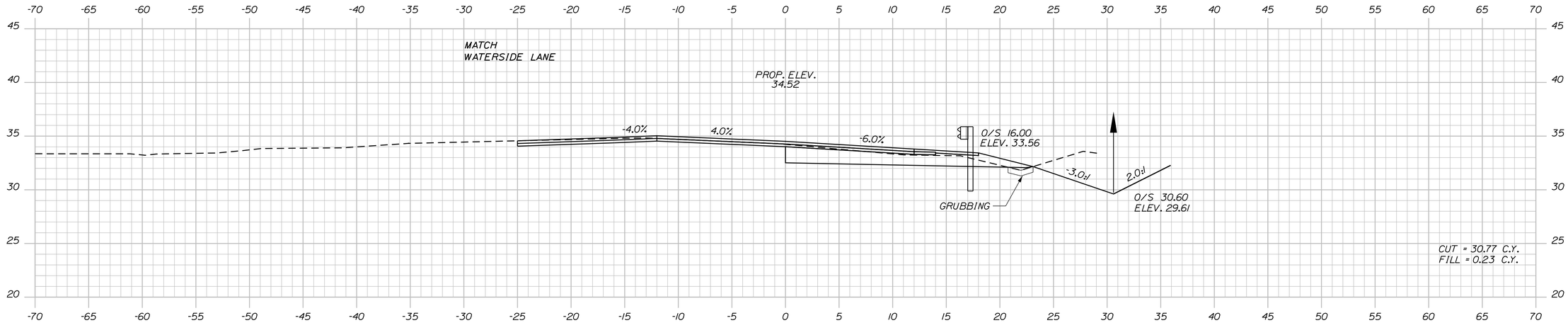
SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

SHEET NUMBER
11
OF 23

Sta. 4+10.00 to Sta. 4+50.00

Filename: ...\011_Xsect_4+10_001.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



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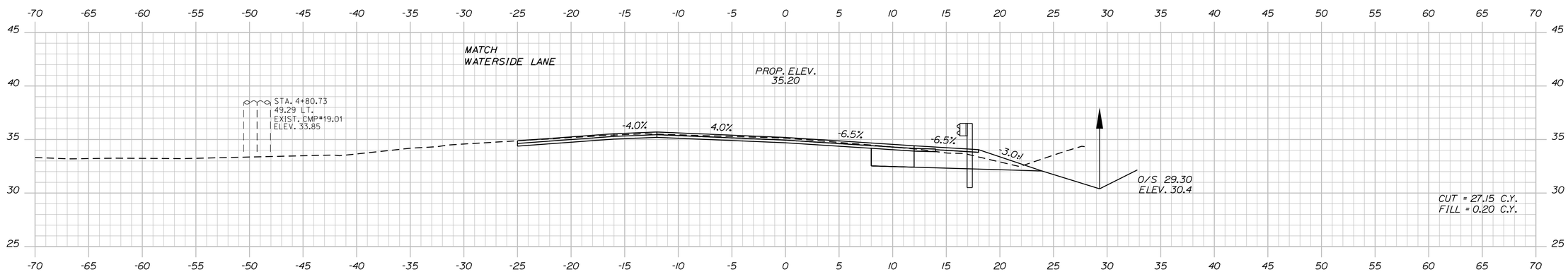

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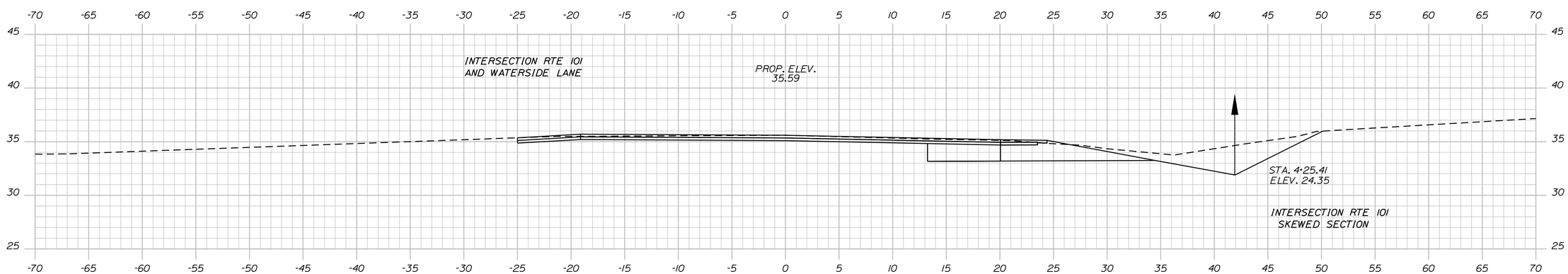

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

PROJ. MANAGER			
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CHECKED-REVIEWED	EVITAYO ADK		2/2014
DESIGN2-DETAILED2	RKB		12/2013
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

SHEET NUMBER
12
OF 23

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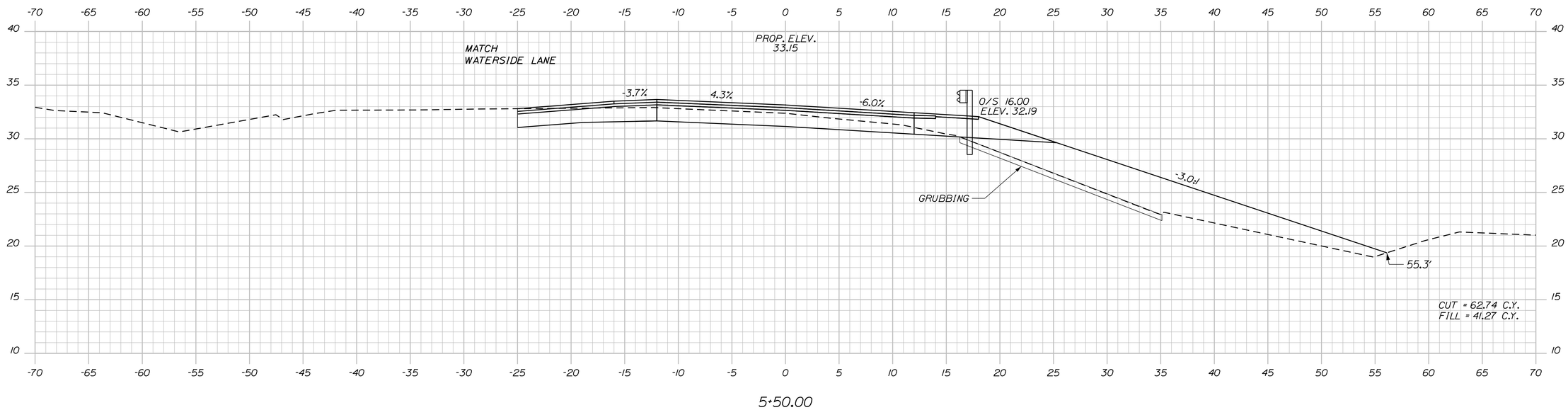

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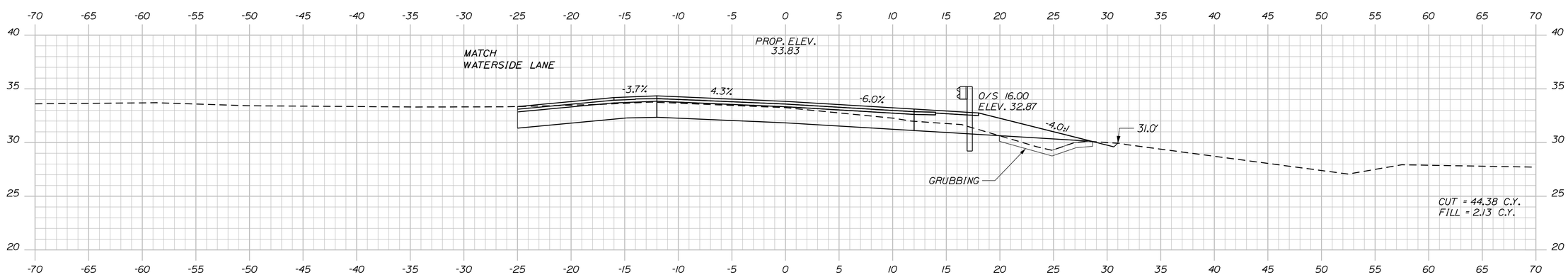

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Sta. 5+25.00 to Sta. 5+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER		
DESIGN-DETAILED	D. LOVELY	2/2014
CHECKED-REVIEWED	EVITAYO ADK	12/2013
DESIGN2-DETAILED2	RKB	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

SOUTH BERWICK
ROUTE 101

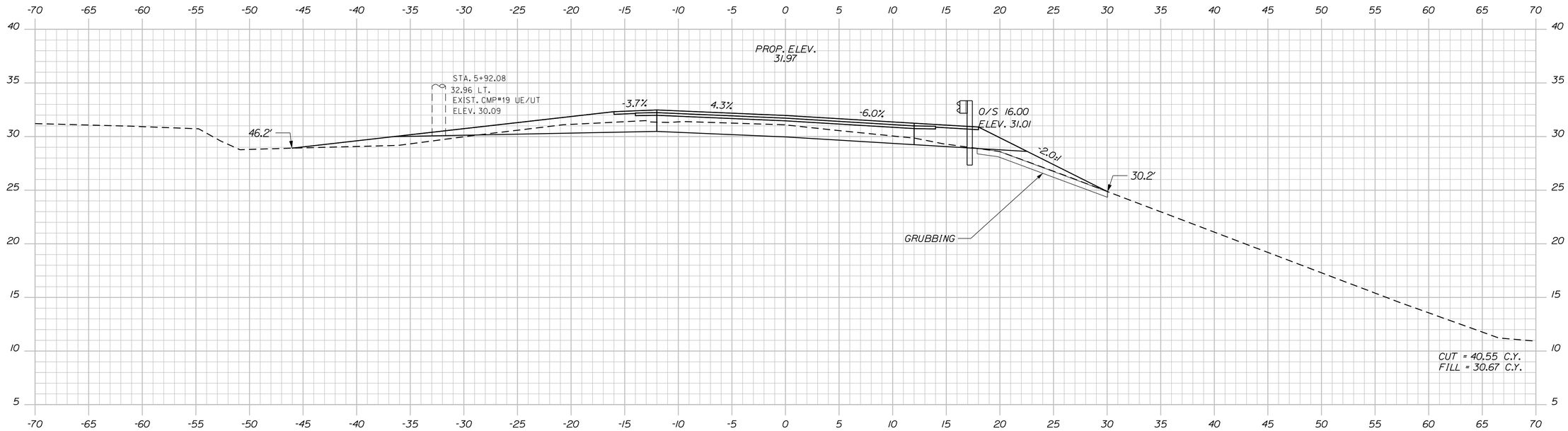
CROSS SECTIONS

SHEET NUMBER

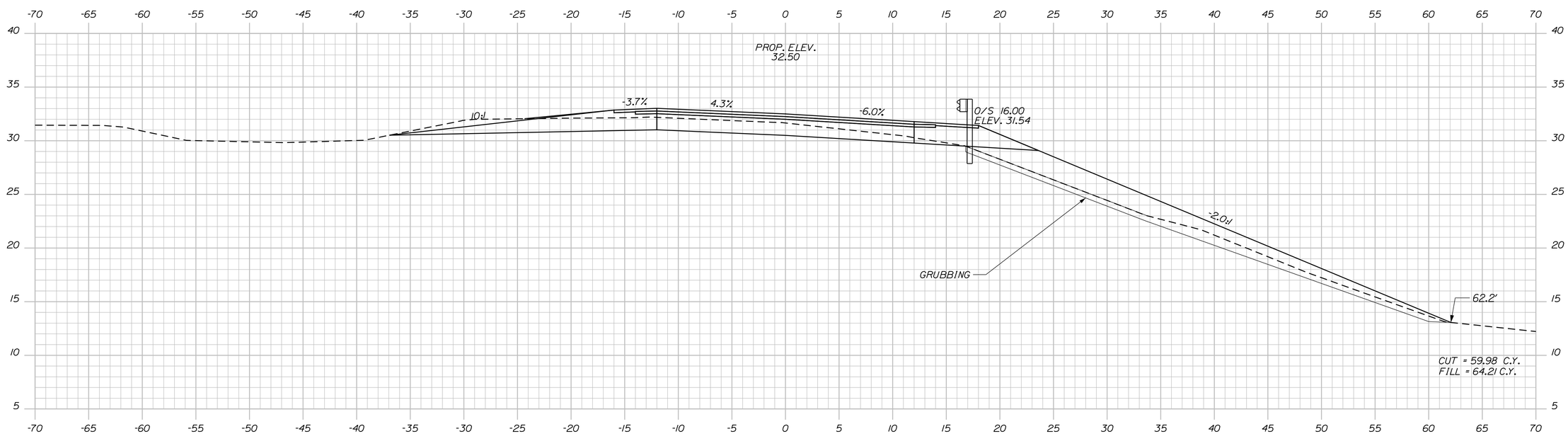
13

OF 23

Filename: ...\013_Xsect_5+25_003.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



6+00.00



5+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

PROJ. MANAGER		BY	DATE
DESIGN-DETAILED	D. LOVELY		2/2014
CHECKED-REVIEWED	EVITAYO ADK		12/2013
DESIGN2-DETAILED2	RKB		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

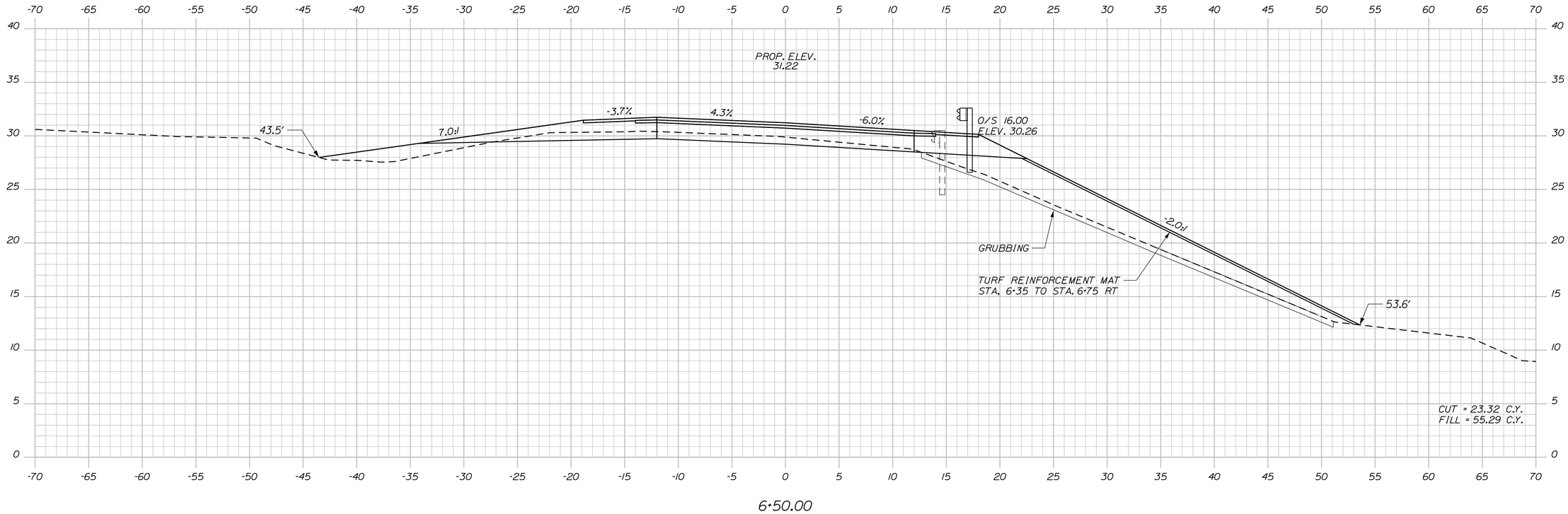
SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

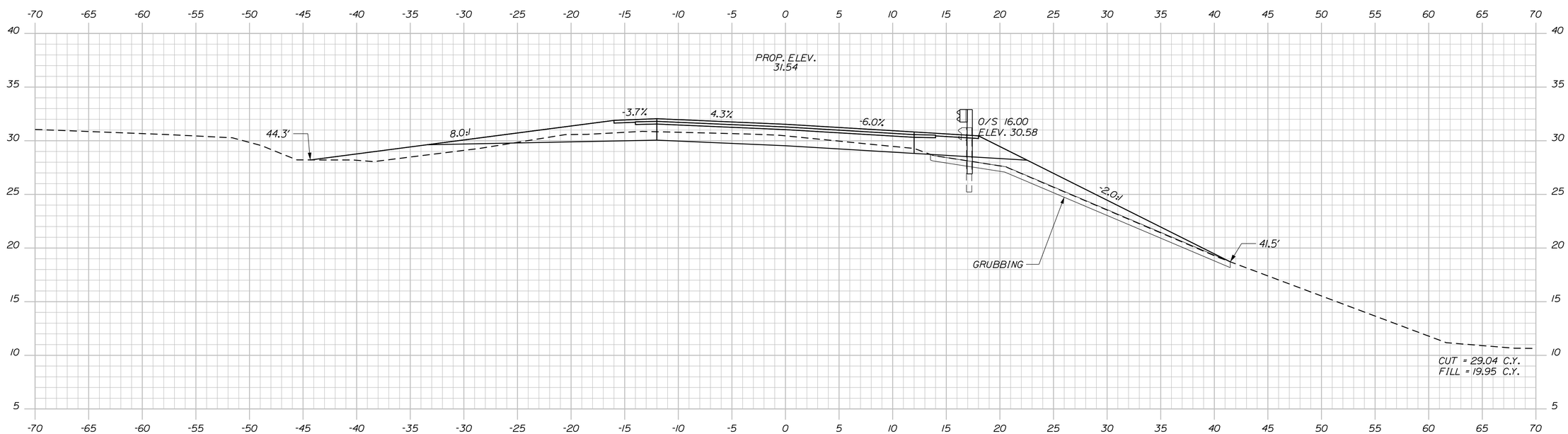
SHEET NUMBER
14
OF 23

Sta. 5+75.00 to Sta. 6+00.00

Filename: ...\014_Xsect_5+75_004.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



6+50.00



6+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EVITAYO ADK		2\2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

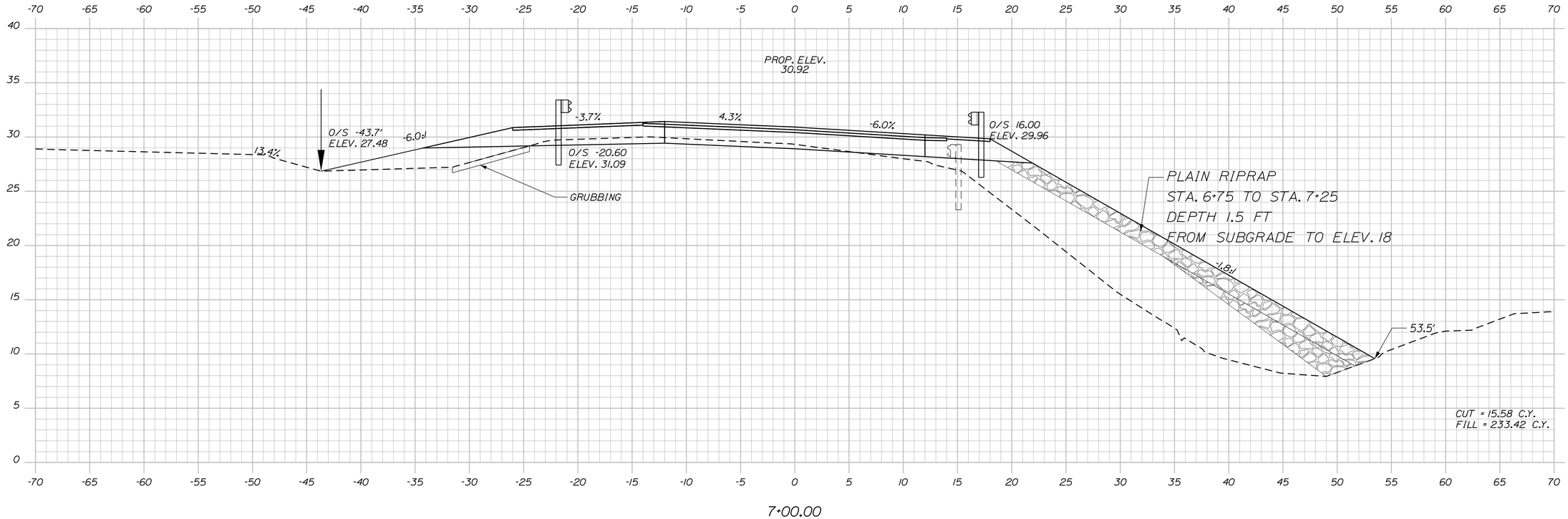
SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

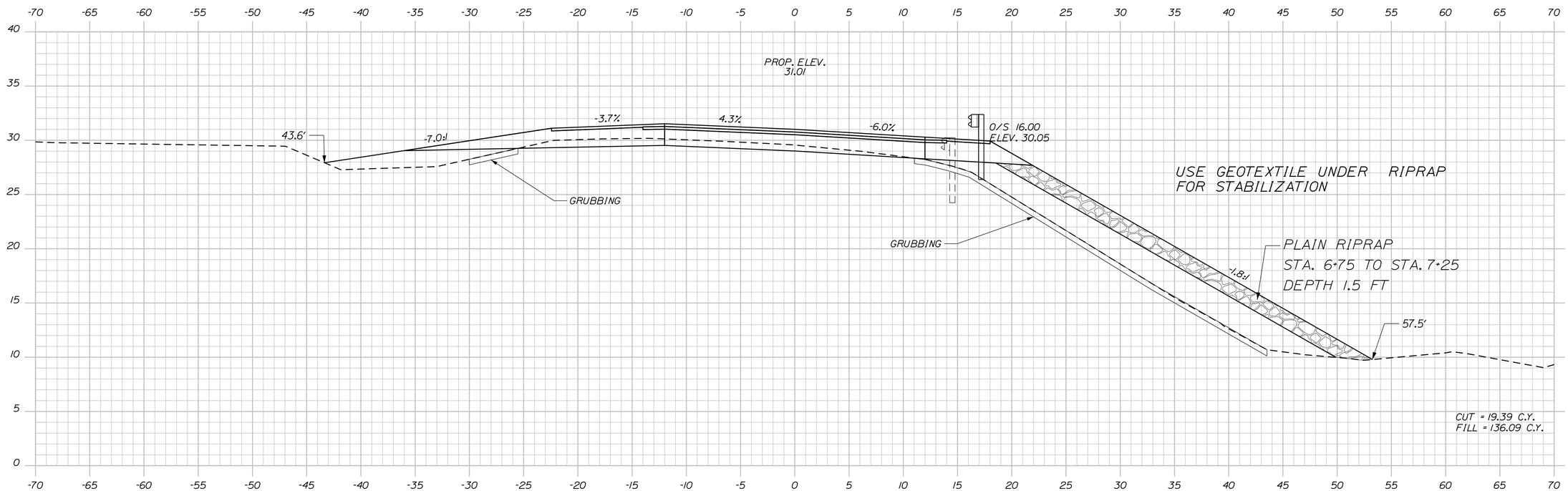
SHEET NUMBER
15
OF 23

Sta. 6+25.00 to Sta. 6+50.00

Filename: ...\015_Xsect_6+25_005.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



7+00.00



6+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EYITAYO ADK		2\2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

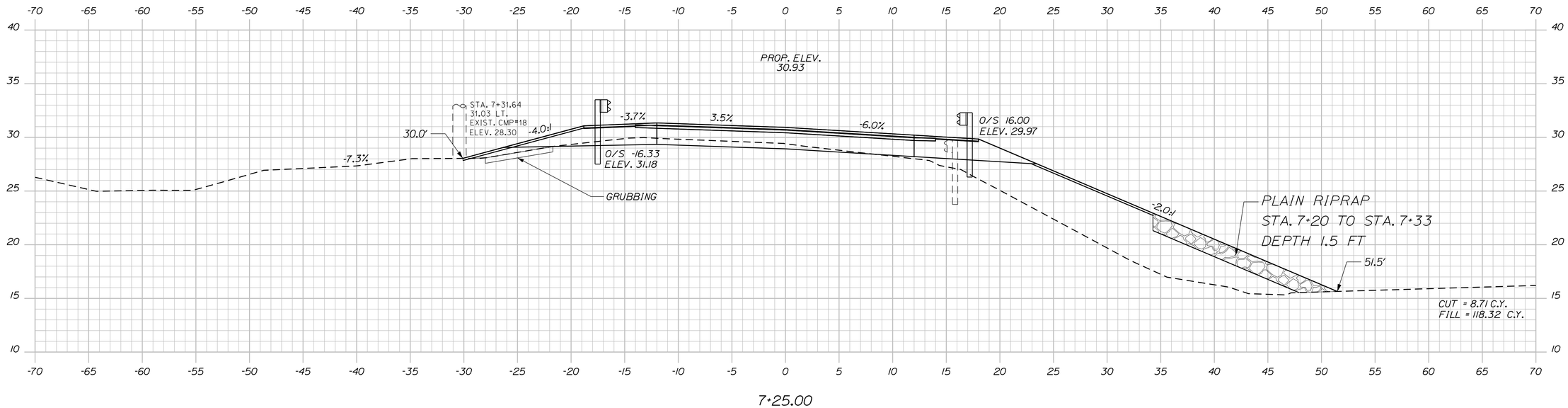
SHEET NUMBER

16

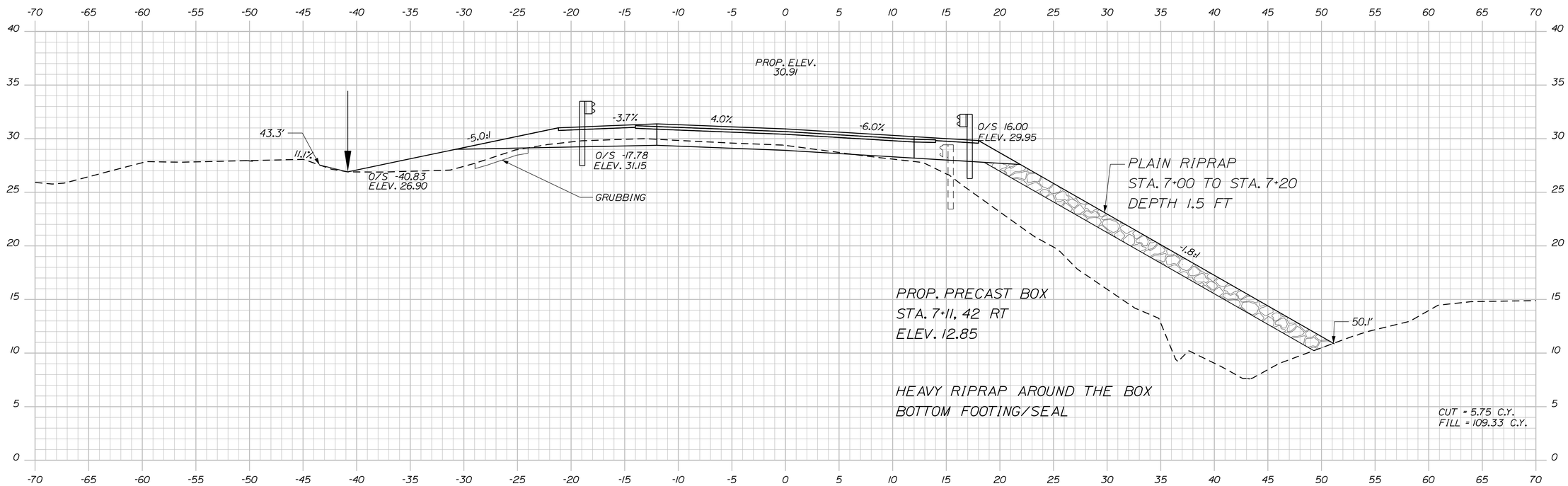
OF 23

Sta. 6+75.00 to Sta. 7+00.00

Filename: ...\016_Xsect_6+75_006.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



7+25.00



7+10.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EYITAYO ADK		2\2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

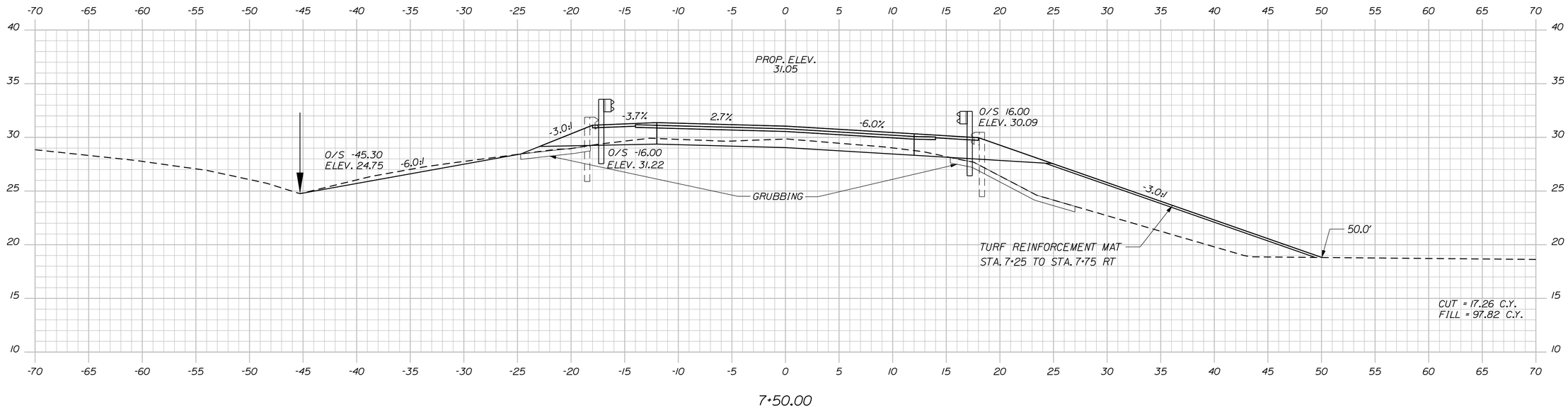
SOUTH BERWICK
ROUTE 101

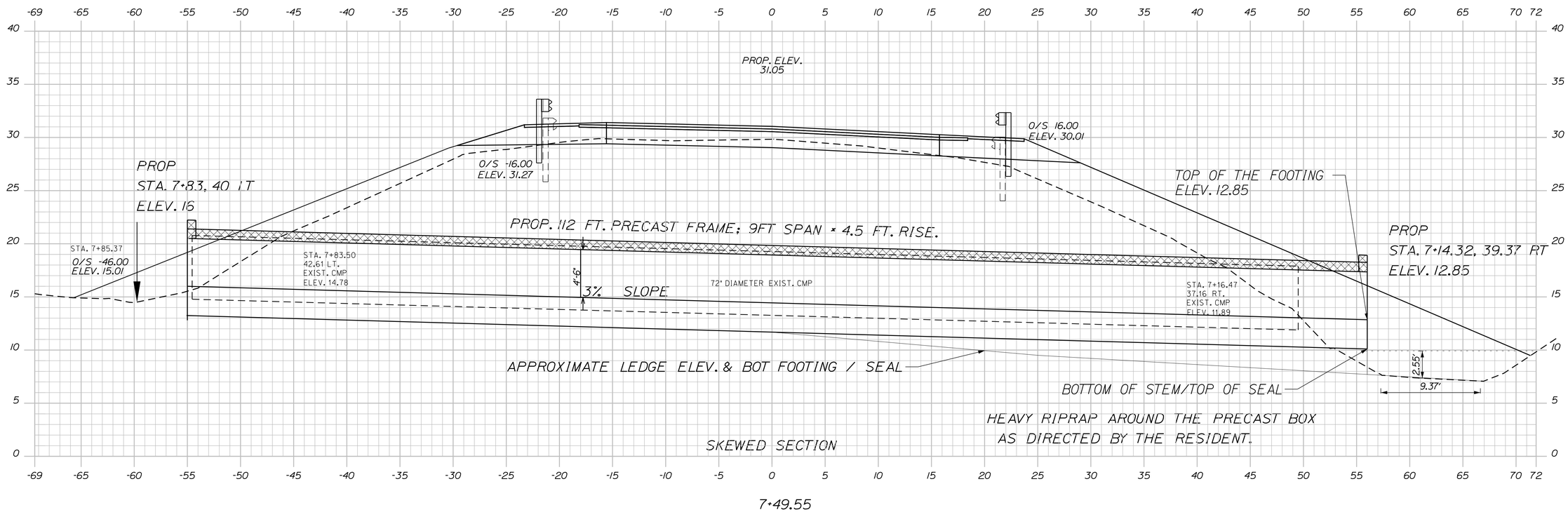
CROSS SECTIONS

SHEET NUMBER
17
OF 23

Sta. 7+10.00 to Sta. 7+25.00

Filename: ...\017_Xsect_7+10_007.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 19262.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	D. LOVELY		
DESIGN-DETAILED	EYITAYO ADK		2/2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SOUTH BERWICK
ROUTE 101

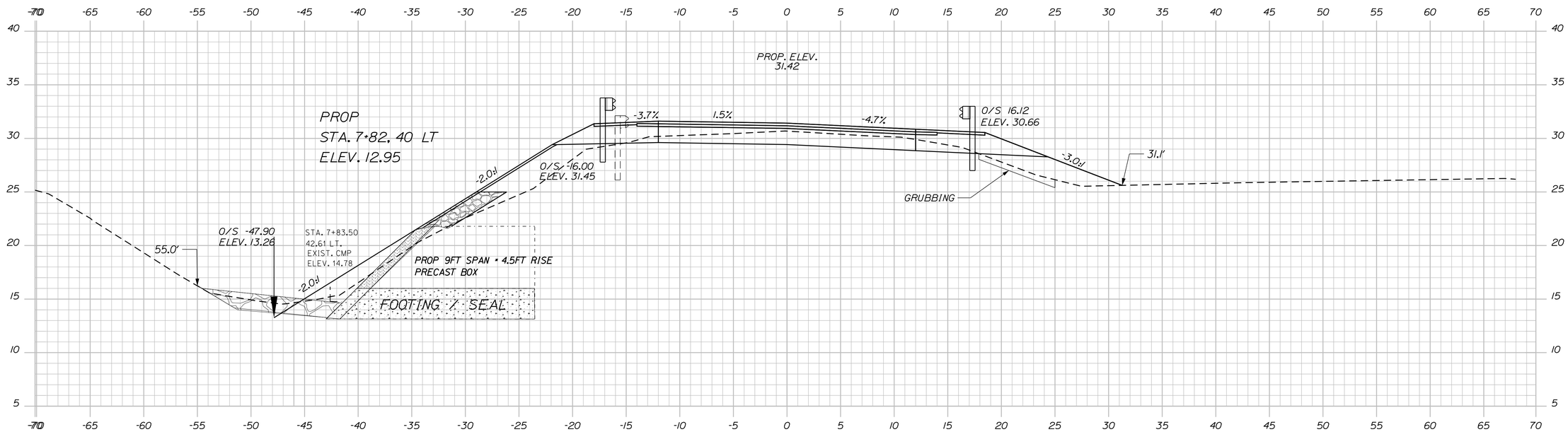
CROSS SECTIONS

SHEET NUMBER
18
OF 23

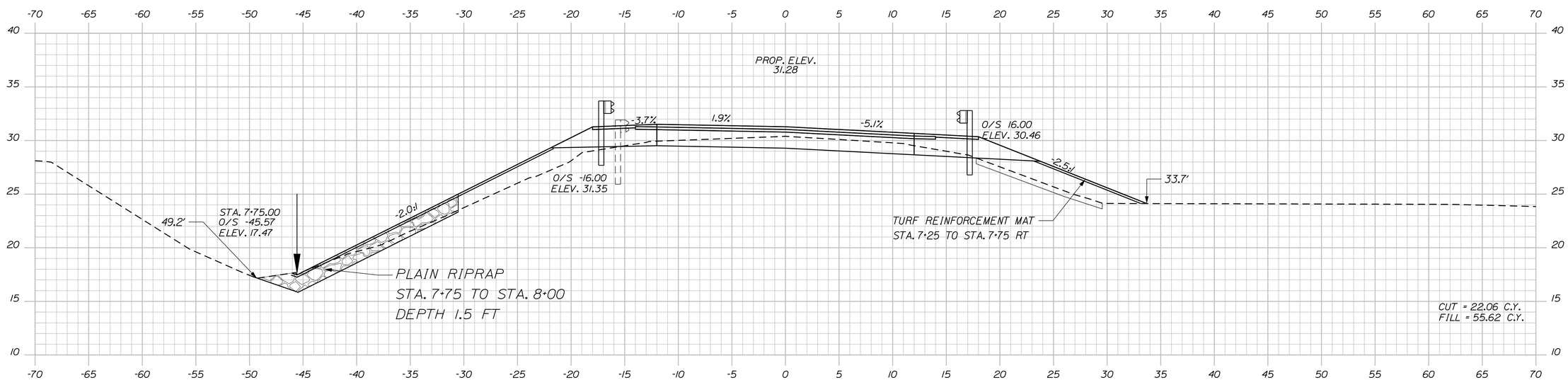
Sta. 7+49.55 to Sta. 7+50.00

Filename: ...\018_Xsect_7+49_008.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015

-70.4



7+86.25



7+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

PROJ. MANAGER		BY	DATE
DESIGN-DETAILED	D. LOVELY		2/2014
CHECKED-REVIEWED	EVITAYO ADK		12/2013
DESIGN2-DETAILED2	RKB		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

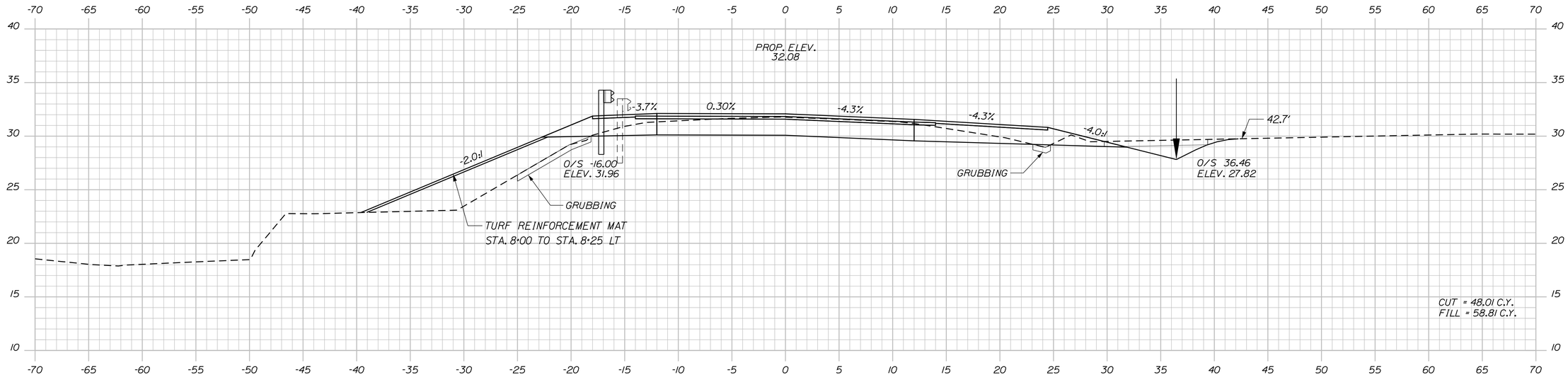
SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

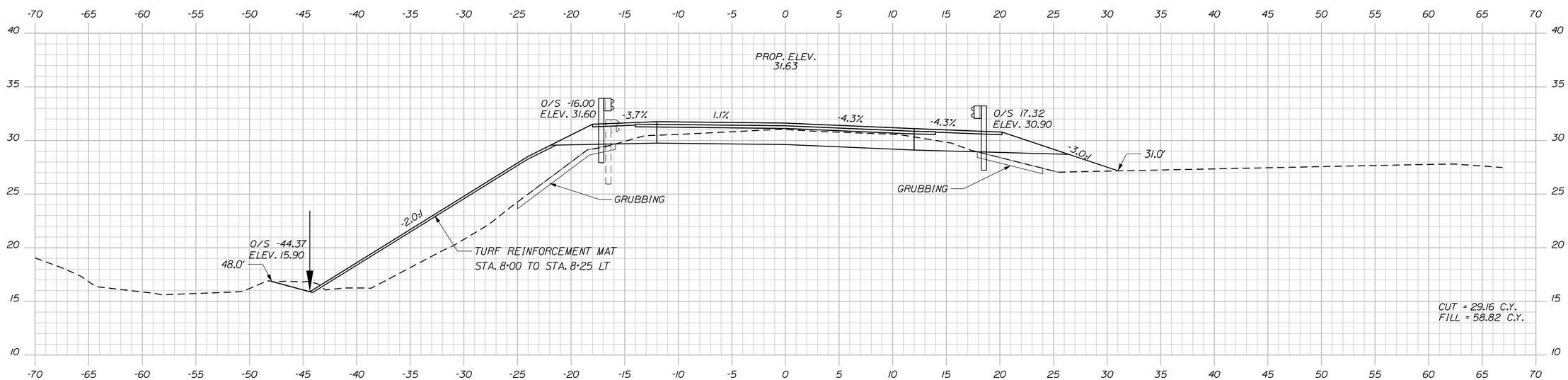
SHEET NUMBER
19
OF 23

Sta. 7+75.00 to Sta. 7+86.25

Filename: ...\019_Xsect_7+75_009.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



8+25.00



8+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	D. LOVELY		2\2014
CHECKED-REVIEWED	EVITAYO ADK		12/2013
DESIGN2-DETAILED2	RKB		
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

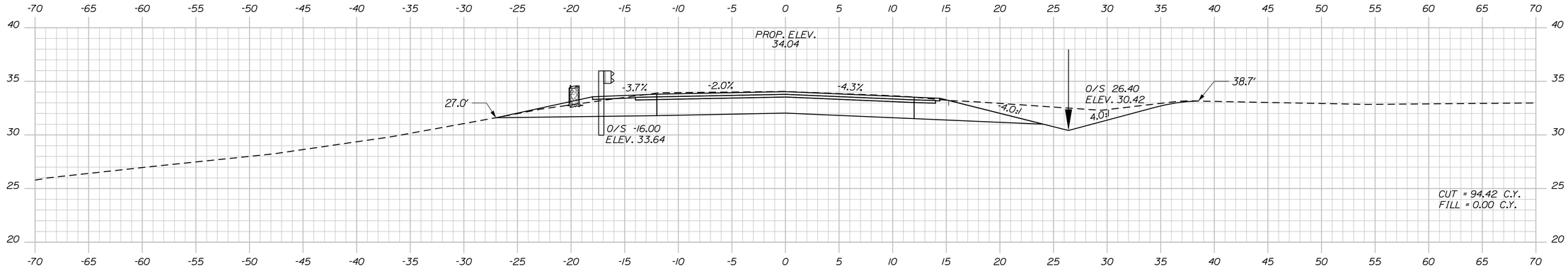
SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

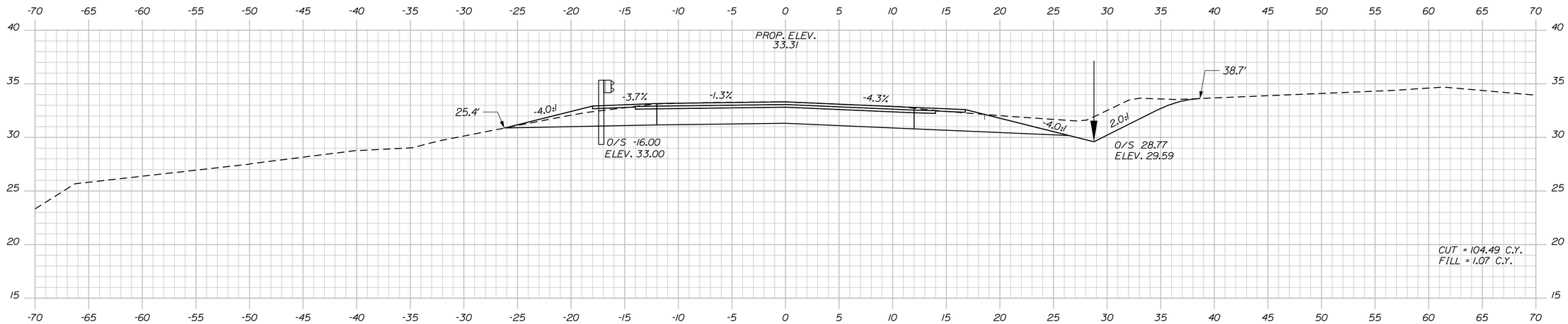
SHEET NUMBER
20
OF 23

Sta. 8+00.00 to Sta. 8+25.00

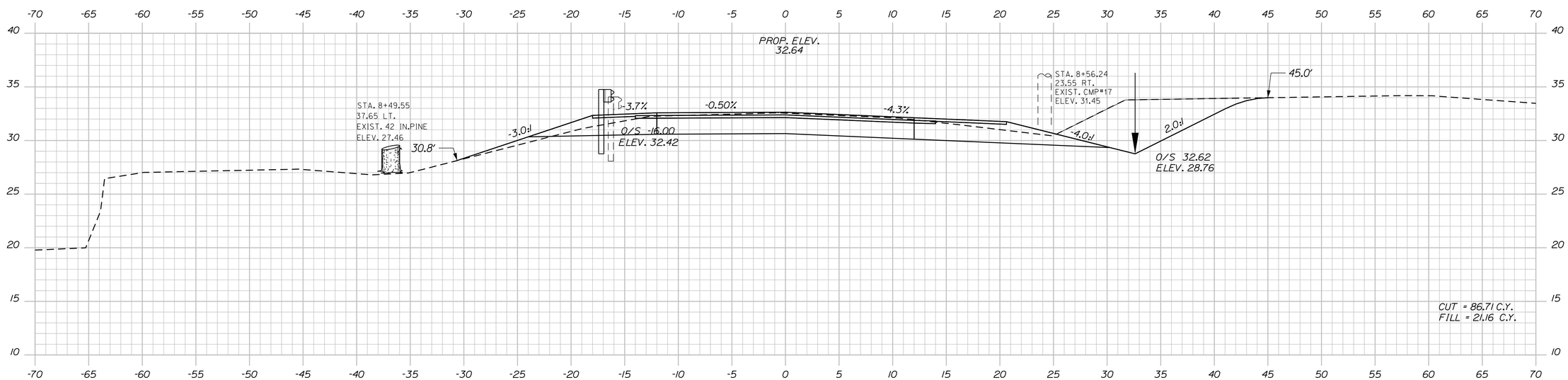
Filename: ...\020_Xsect_8+00_010.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



9+00.00



8+75.00



8+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

PROJ. MANAGER	D. LOVELY	BY	DATE
DESIGN-DETAILED	EYITAYO ADK		2/2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

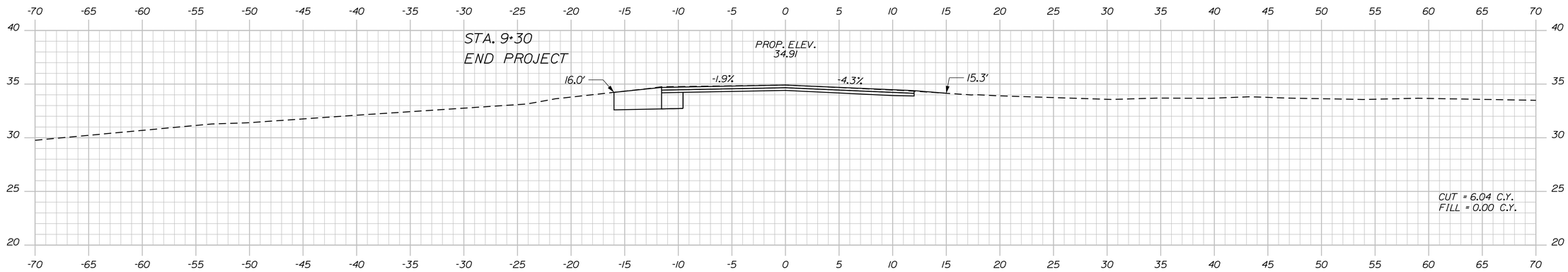
SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

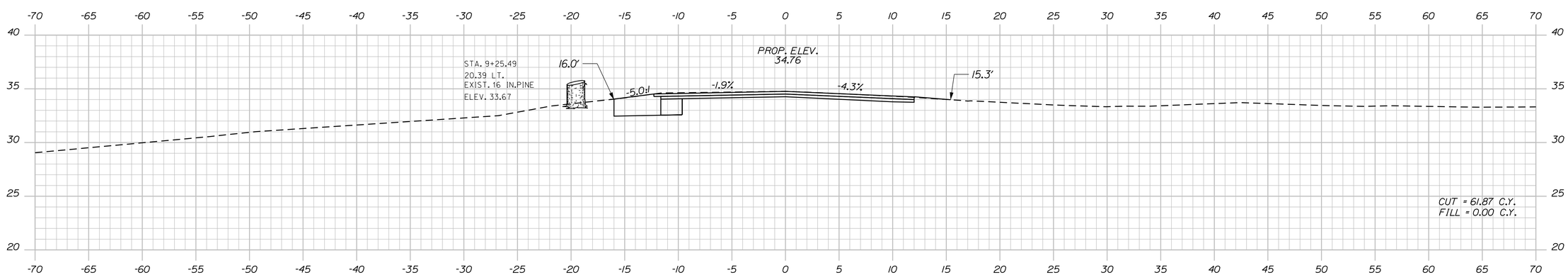
SHEET NUMBER
21
OF 23

Sta. 8+50.00 to Sta. 9+00.00

Filename: ...\021_Xsect_8+50_011.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015



9+30.00



9+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19262.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	D. LOVELY		
DESIGN-DETAILED	EYITAYO ADK		2/2014
CHECKED-REVIEWED	RKB		12/2013
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

SOUTH BERWICK
ROUTE 101

CROSS SECTIONS

SHEET NUMBER
22
OF 23

Sta. 9+25.00 to Sta. 9+30.00

Filename: ...\022_Xsect_9+25_012.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/30/2015

HORIZONTAL DATUM - US STATE PLANE NAD83(1996)
ZONE - MAINE 2000 WEST ZONE
VERTICAL DATUM - NAVD 88
COMBINED SCALE FACTOR - 0.9999945

GRID NORTH

SUBDIVISION PLAN
PREPARED FOR MARY FRANCIS RICHARDSON
TAX MAP 15, LOT NO. 17
9 WATERSIDE LANE
TOWN OF SOUTH BERWICK
COUNTY OF YORK, STATE OF MAINE
BY MCENEANEY SURVEY ASSOCIATES, INC.
DATED FEBRUARY 3, 2010

MAP OF THE ROUTE AND LOCATION
OF THE BERWICK, ELIOT AND YORK STREET RAILWAY
DATED - 1902
APPROVED DATE - FEBRUARY 5, 1902
ON FILE AT THE MAINE STATE ARCHIVES, AUGUSTA, MAINE
PLAN NO. 3-14-1 & 104 PLAN A

EASEMENT PLAN
WATERSIDE LANE-SOUTH BERWICK, ME
PREPARED FOR
NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY
ON LAND OF
MARY FRANCES G. RICHARDSON
DATED - APRIL 1995
Y.C.R.D. PLAN BOOK 226 PAGE 19

GREAT WORKS REGIONAL LAND TRUST
ITEM NO. (2)
SLOPE EASE. = 1,587± S.F. (2)
DRAINAGE EASE = 1,161± S.F. (1)
TEMP. CONST. RIGHTS = 1,276± S.F. (1)
TOTAL AREA = 1.52± AC.

INLET DRAINAGE STRUCTURE
STA. 7+58 TO STA. 8+12 LT.

RALPH W. HOLMES
RICHARD A. HOLMES

P.L. SEE PLAN FOR MARY FRANCIS RICHARDSON BY MCENEANEY SURVEY ASSOCIATES)

QUAMPHEGAN BROOK
Flow

RICHARD A. HOLMES
KATHERINE M. HOLMES
ITEM NO. (3)
TEMP. CONST. RIGHTS = 489± S.F. (1)
TOTAL AREA = 2.72± AC. (PER TOWN)

POE = STA. 9+32.80

EXISTING RIGHT OF WAY AND NOTES

DOVER-ELIOT ROAD
1) YORK COUNTY REGISTRY OF DEEDS
VOLUME 23 PAGE 638
DATED 1885
3 RODS WIDE (49.5')
2) MAINE STATE HIGHWAY COMMISSION
PLAN OF PROPOSED RELOCATION
STATE HIGHWAY NO. 3
SOUTH BERWICK, YORK COUNTY
ACROSS LAND OF
THE SIMPSON HEIRS - STATE OF MAINE
JANUARY 1935
STATE HIGHWAY COMMISSION FILE NO. S-16-174
YORK COUNTY REGISTRY OF DEEDS
PLAN BOOK 11 PAGE 58
WATERSIDE LANE
1)YORK COUNTY REGISTRY OF DEEDS
VOLUME 759 PAGE 334
SOUTH BERWICK TOWN MEETING BOOK
1935-1952, PAGE 256 FOR ACCEPTANCE
OF THE PARCEL OF LAND KNOWN AS THE
OLD P, D & Y RAILROAD BED.
AS-BUILT PLANS
1) STATE OF MAINE - STATE HIGHWAY COMMISSION
PLAN AND PROFILE
ELIOT - SO. BERWICK, YORK COUNTY
U.S. PUBLIC WORKS PROJECT NO. NRS 252
E-PLAN ARCHIVE, PLOT SET ID NO. 1132
TAX MAP INFORMATION
1) SOUTH BERWICK - TAX MAP 15

STATE AID HIGHWAY NO. 3/ROUTE 101/DOVER-ELIOT ROAD

POB = STA. 3+83.98

PC = STA. 4+13.69

PCS = STA. 6+33.09

PT = STA. 7+98.12

TO DOVER, N.H.

TO OLDFIELDS ROAD

WATERSIDE LANE

TO ROUTE 236

DRAINAGE OUTLET
STA 5+51± RT.

DRAINAGE OUTLET
STA 8+57± RT.

OUTLET DRAINAGE STRUCTURE
STA. 6+81 TO STA. 7+50 RT.

JOHN G. RICHARDSON
MARY FRANCES G. RICHARDSON (LIFE ESTATE)
ITEM NO. (1)
SLOPE EASE. = 0.11± AC. (1)
DRAINAGE EASE. = 396± S.F. (2)
TOTAL AREA = 16.75± AC. (PER TOWN)

SALLY J. THORN
ITEM NO. (4)
SLOPE EASE. = 0.08± AC. (2)
DRAINAGE EASE. = 1,025± S.F. (2)
TOTAL AREA = 2.2± AC. (PER TOWN)

STATE OF MAINE
REGISTRY OF DEEDS
COUNTY _____
RECEIVED _____, _____
at _____h_____m_____M and recorded in
Plan Book _____, Page _____
Attest: _____
REGISTER

CURVE DATA
PI = 5+24.18
D = 13°38'31"
Δ = 28°46'22" Rt.
R = 420.00'
L = 210.91'
T = 107.73'
E = 13.60'

CURVE DATA
PI = 7+09.78
D = 8°11'06"
Δ = 11°32'02" Rt.
R = 700.00'
L = 140.91'
T = 70.69'
E = 3.56'

WIN 019262.00

SYMBOLS
WELL (WELL)
GROUNDING UNIT LINE
CONSTRUCTION LIMIT LINE
PROPERTY LINE
LIMITS OF PERCEIVED RIGHT TO PASTURE (LOVP)
EXISTING RIGHT OF WAY
NEW RIGHT OF WAY
NEW ROW WITHIN EXIST. ROW
CONTROL OF ACCESS
IP or IPF (IRON PIPE or PIN FOUND)
S.T. (SEPTIC TANK)
(ROW MONUMENT)
BM (TRAVERSE POINT)
WATER LINE
GAS LINE
ELECTRIC LINE
TELEPHONE LINE
SEWER LINE

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

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	2/18/13	16777	518

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE OF MAINE
CHRISTOPHER W. KNIGHT
2257
PROFESSIONAL LAND SURVEYOR

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.

STATE AID HIGHWAY NO. 3
ROUTE 101 / DOVER-ELIOT ROAD
SOUTH BERWICK YORK COUNTY
STATE PROJECT NO. 19262.00

SEPTEMBER 2013 | RIGHT-OF-WAY MAP | D.O.T.FILE NO. 16-494
SCALE 1" = 25' | SHEET 1 OF 1

SHEET NUMBER
23
OF 23

Filename: ...\023_Layout_ROW_Referenced.dgn Division: HIGHWAY Username: katherine.s.gray Date:4/9/2015