

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



LIMINGTON

YORK COUNTY

ROUTE 117

STATE PROJECT NO. 02289300

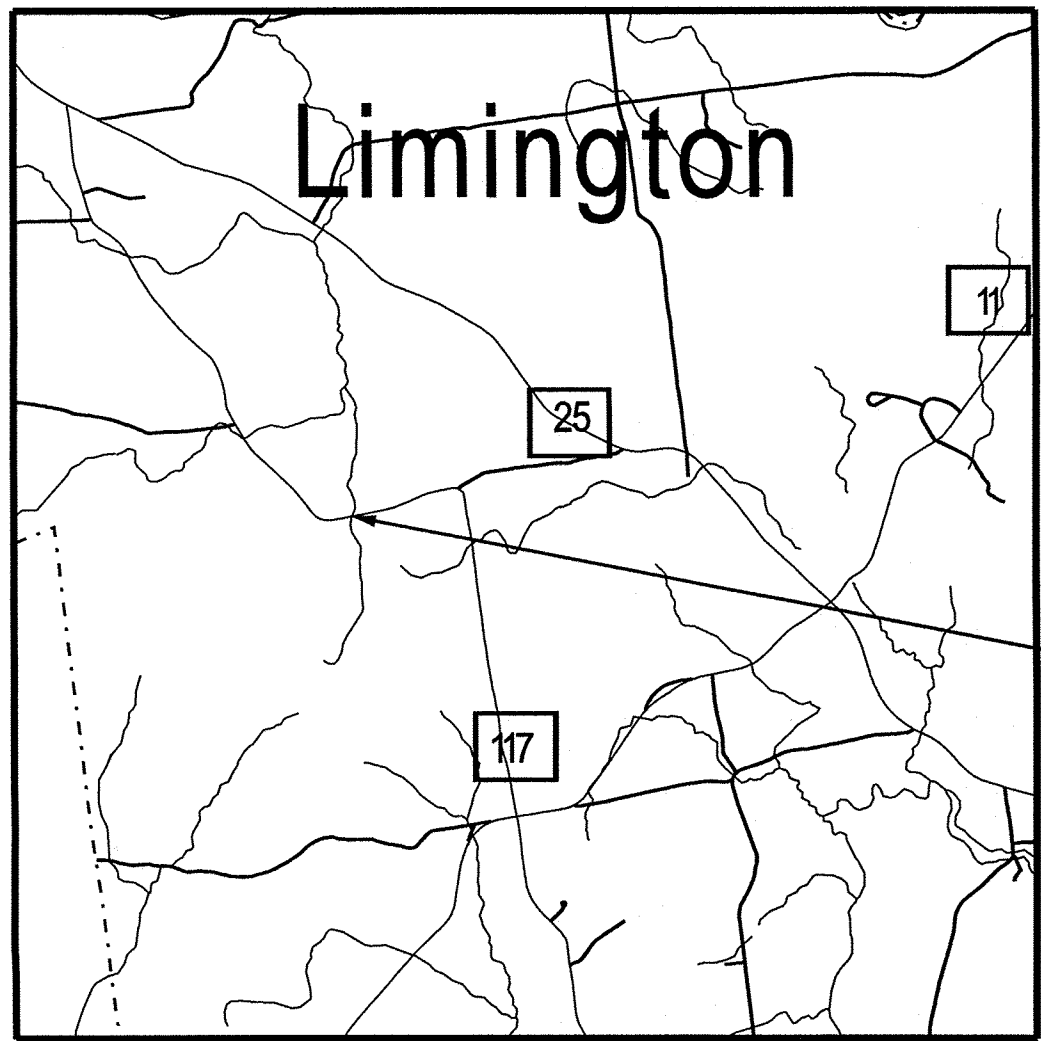
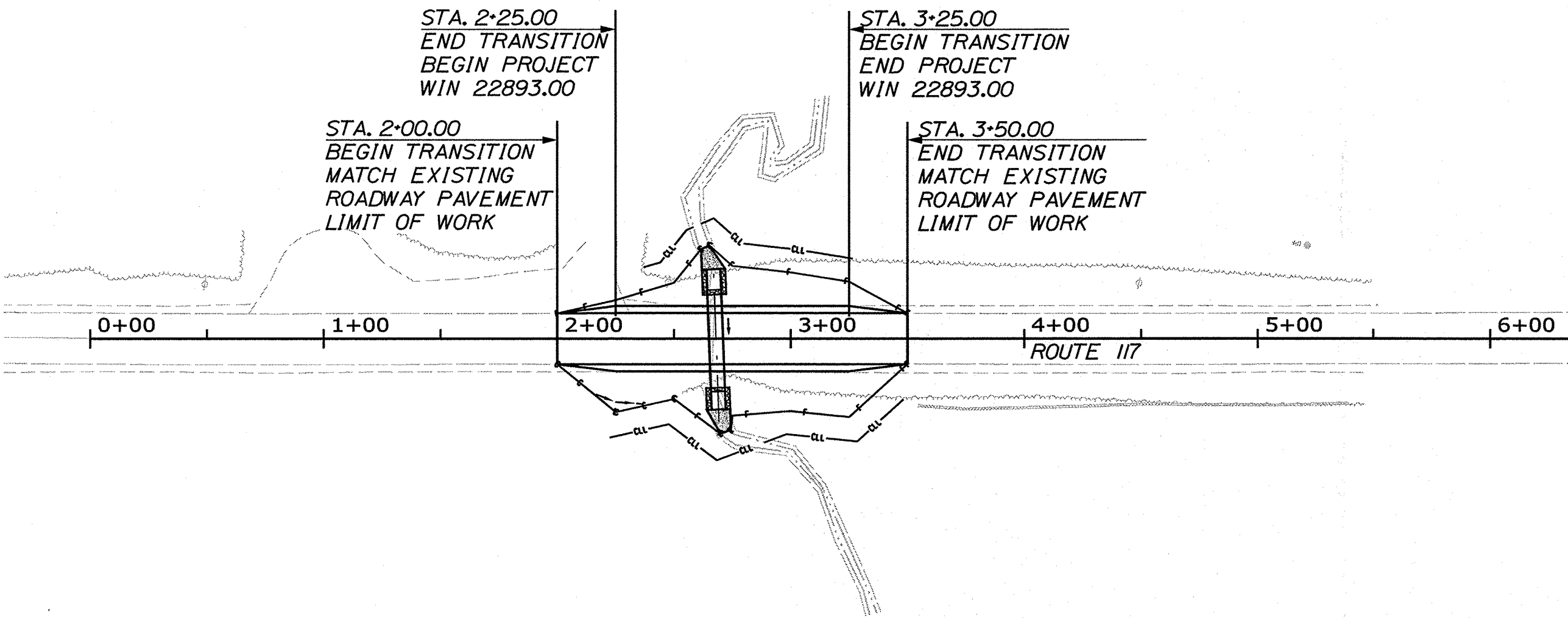
PROJECT LENGTH : 0.02 MILES

PLAN LEGEND

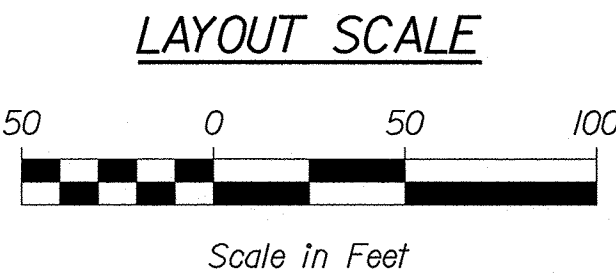
Town, County, State	Centerline-Existing	
Property Lines	Centerline-Proposed	10+00
R/W Lines-Existing	Travelway-Existing	
R/W Lines-Proposed	Travelway-Proposed	
Culvert-Existing	Railroad	
Culvert Proposed	Catch Basins	Existing Proposed
Curbing Existing Proposed	Manholes	Existing Proposed
Type 1	Proposed Underdrain	
Type 3	Proposed Ditch	
Type 5	Existing Ditch	
Outline of Bodies of Water	Utility Poles	Existing Proposed
Exposed Bedrock	Fire Hydrants	Existing Proposed
Buildings	Existing Water Line	
Trees Conifer Deciduous	Existing San. Sewer	
Tree Line	Existing San. Sewer Manhole	
Clearing Limit Line	Guardrail-Existing	
Probe P-##X	Guardrail-Proposed	
## = Depth	Guardrail-Cable, Other	
X = W (Weathered Rock)	Boring HB-XXX-###	
R (Refusal)	Pavement Core PC-#	
NR (No Refusal)	Test Pit TP-XXX-###	

INDEX OF SHEETS

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LOCATION MAP



TRAFFIC DATA

Current (2019) AADT	750
Future (2039) AADT	920
DHV - % of AADT	12%
Design Hour Volume	110
% Heavy Trucks (AADT)	12%
% Heavy Trucks (DHV)	8%
Directional Distribution (DHV)	55%
18 kip Equivalent P 2.0	62
18 kip Equivalent P 2.5	59
Design Speed (mph)	45
Functional Class	Minor Collector
Corridor Priority	4

PROJECT LOCATION:

CROSS CULVERT (#XC-86554) LOCATED 0.05 OF A MILES EAST OF DEER RIDGE LANE.

PROGRAM AREA:

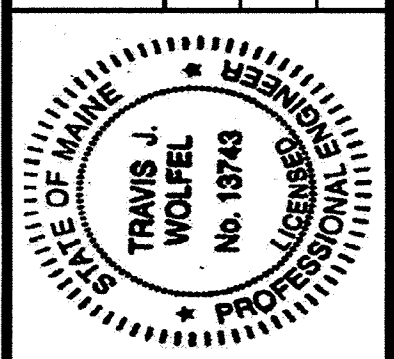
HIGHWAY PROGRAM

SCOPE OF WORK:

LARGE CULVERT REPLACEMENT



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER	TRAVIS J. WOLFEL	4/5/19
CHIEF ENGINEER	Jesse Noel	4-5-19



PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
	HIGHWAY	LARRY HAMILTON	TRAVIS WOLFEL	KLEINFELDER			

02289300	02289300	02289300
LIMINGTON ROUTE 117	TITLE SHEET	
SHEET NUMBER	1	OF 10

Filename: ... \002_Estimated- Typical-GeneralNotes.Bansion: HIGHWAY

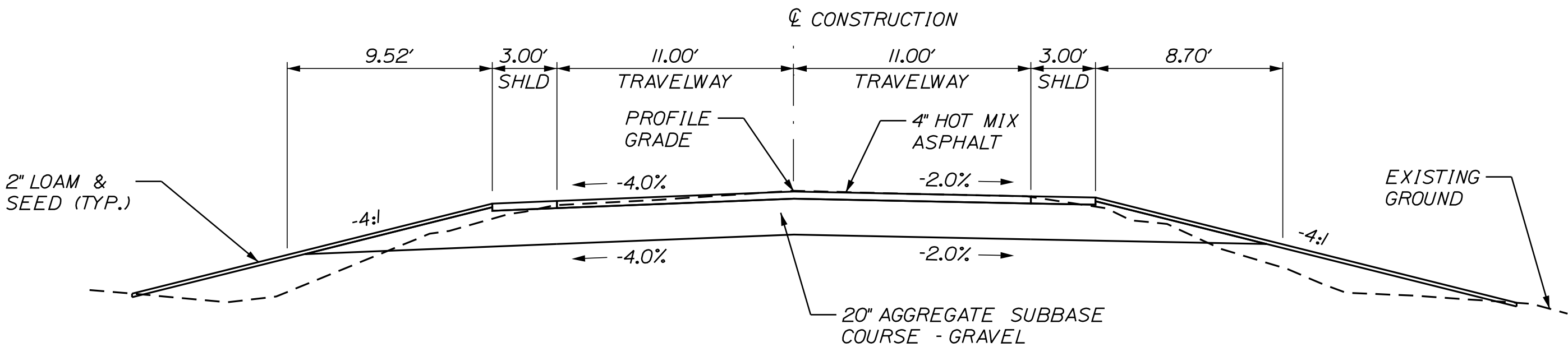
Date: 9/24/2018

Username:

1. CLEARING LIMITS SHALL BE 10 FEET BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.
2. 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.
3. THE CONTRACTOR SHALL PLAN AND CONDUCT THEIR WORK ACCORDINGLY SO THAT UPON COMPLETION OF THE PROJECT THERE IS NO DROP-OFF FROM THE EDGE OF SHOULDER PAVEMENT.
4. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.
5. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1 FOOT ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19.
6. EXISTING INSLOPES IN PROPOSED FILL AREAS SHALL BE BENCHED BY EXCAVATING STEPS OF SUFFICIENT WIDTH TO PERMIT PLACING AND COMPACTING THE FILL MATERIAL ALONG WITH THE MATERIAL REMOVED.
7. WHEN SUPER ELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE SHOULDER PAVEMENT WILL HAVE SAME SLOPE AS THE TRAVELED WAY.
8. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
9. 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 OTHER AREAS.
10. 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.
11. 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.
12. PLANS OF PREVIOUSLY CONSTRUCTED PROJECTS ARE AVAILABLE ON REQUEST. THESE PROJECTS ARE:
13. THE PROJECT GEOTECHNICAL REPORT TITLED XXXXX, SOILS REPORT 20XX-XX, DATE CAN BE ACCESSED AT THE MAINE DOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).
14. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. MAINE DOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSION DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS (IF ANY) PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.
15. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
16. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

18. FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING LAYOUT IN THE CONTRACT DOCUMENTS OR AS PROVIDED BY THE DEPARTMENT. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

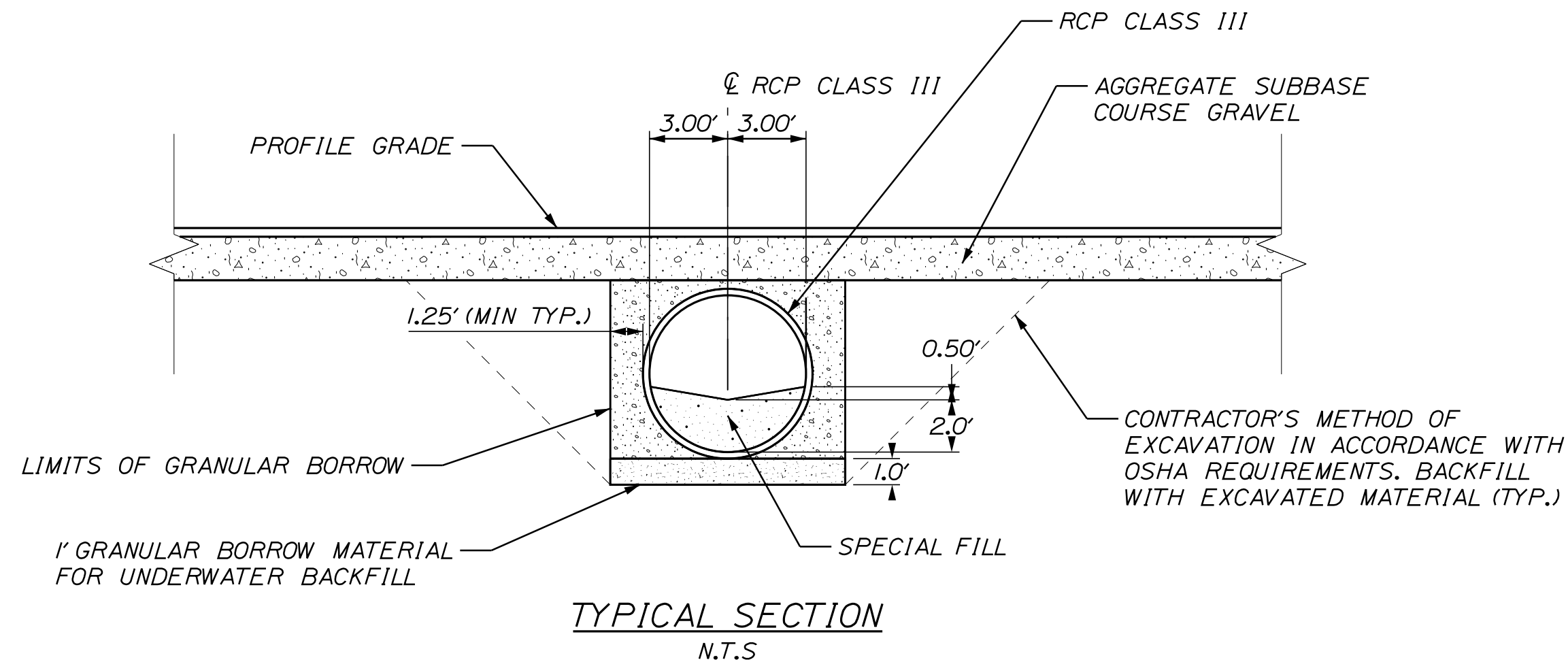
Estimated Quantities			
Item	Description	Quantity	Unit
203.20	COMMON EXCAVATION	340	CY
203.24	COMMON BORROW	10	CY
203.25	GRANULAR BORROW	80	CY
203.33	SPECIAL FILL	21	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	300	CY
403.208	HOT MIX ASPHALT 12.5 MM SURFACE	50	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	50	T
409.15	BITUMINOUS TACK COAT - APPLIED	27	G
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
603.275	72" RCP CLASS III	60	LF
603.55	CONCRETE PIPE TIES	4	GP
610.08	PLAIN RIPRAP	12	CY
613.319	EROSION CONTROL BLANKET	14	SY
615.07	LOAM	23	CY
618.14	SEEDING METHOD NUMBER 2	4	UN
619.12	MULCH	4	UN
620.58	EROSION CONTROL GEOTEXTILE	50	SY
627.733	4 INCH WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	450	LF
629.05	HAND LABOR - STRAIGHT TIME	30	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	15	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	15	HR
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.33	DRUM	25	EA
652.34	CONE	25	EA
652.35	CONSTRUCTION SIGN	90	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	30	CD
652.38	FLAGGER	100	HR
652.61	STAGED CONSTRUCTION AND TRAFFIC CONTROL	1	LS
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS



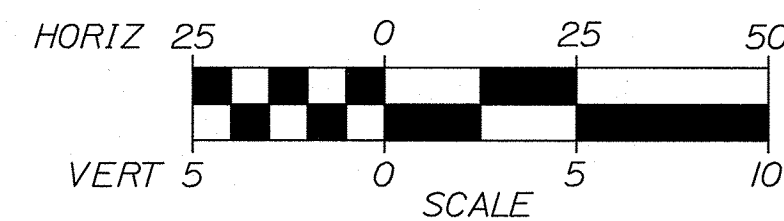
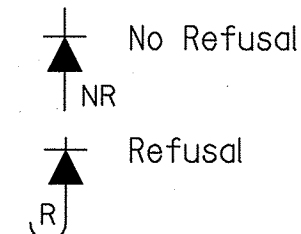
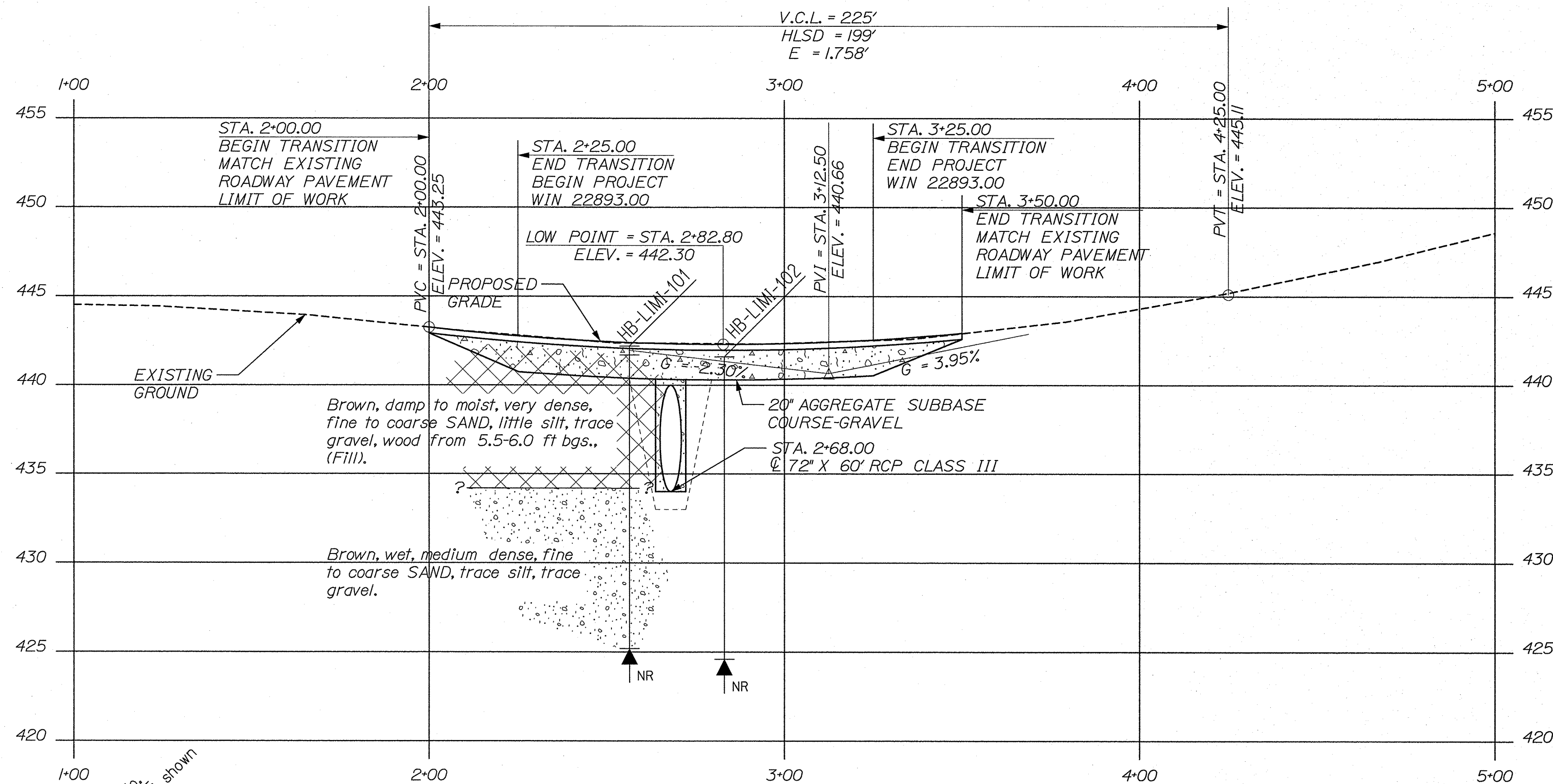
ROUTE 117 CROSS SLOPES (e)				
LEFT %		STATION	RIGHT %	
SHOULDER	TRAVELWAY		TRAVELWAY	SHOULDER
MATCH EXISTING	MATCH EXISTING	2+00	MATCH EXISTING	MATCH EXISTING
-4.0	-4.0	2+25	-2.0	-2.0
		TO		
-4.0	-4.0	3+00	-2.0	-2.0
-5.2	-5.2	3+25	-2.0	-2.0
MATCH EXISTING	MATCH EXISTING	3+50	MATCH EXISTING	MATCH EXISTING

 STATE OF MAINE DEPARTMENT OF TRANSPORTATION					
					022893.00
					WIN
					022893.00
					HIGHWAY PLANS

SHEET NUMBER	LIMINGTON ROUTE 117	PROJ. MANAGER	L. HAMILTON	BY	DATE	
2 OF 8	GENERAL NOTES & ESTIMATE & TYPICAL SECTION	DESIGN-DETAILED	T. WOLFEL		9/2018	
		CHECKED-REVIEWED	K. WOOL	M. STEELE		9/2018
		DESIGN2-DETAILED2				
		DESIGN3-DETAILED3				
		REVISONS 1				P.E. NUMBER
		REVISONS 2				
		REVISONS 3				
		REVISONS 4			DATE	
		FIELD CHANGES				



4. INLET AND OUTLET GRADING SHALL BE COORDINATED WITH THE MAINEDOT HYDROLOGY SECTION. THE CONTRACTOR SHALL GIVE THE RESIDENT A MINIMUM OF 48 HOURS NOTICE BEFORE INLET OR OUTLET GRADING MAY BEGIN. ROCK EXCAVATION, RIPRAP, AND SPECIAL FILL WILL BE PAID UNDER THE APPROPRIATE ITEMS.



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 and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

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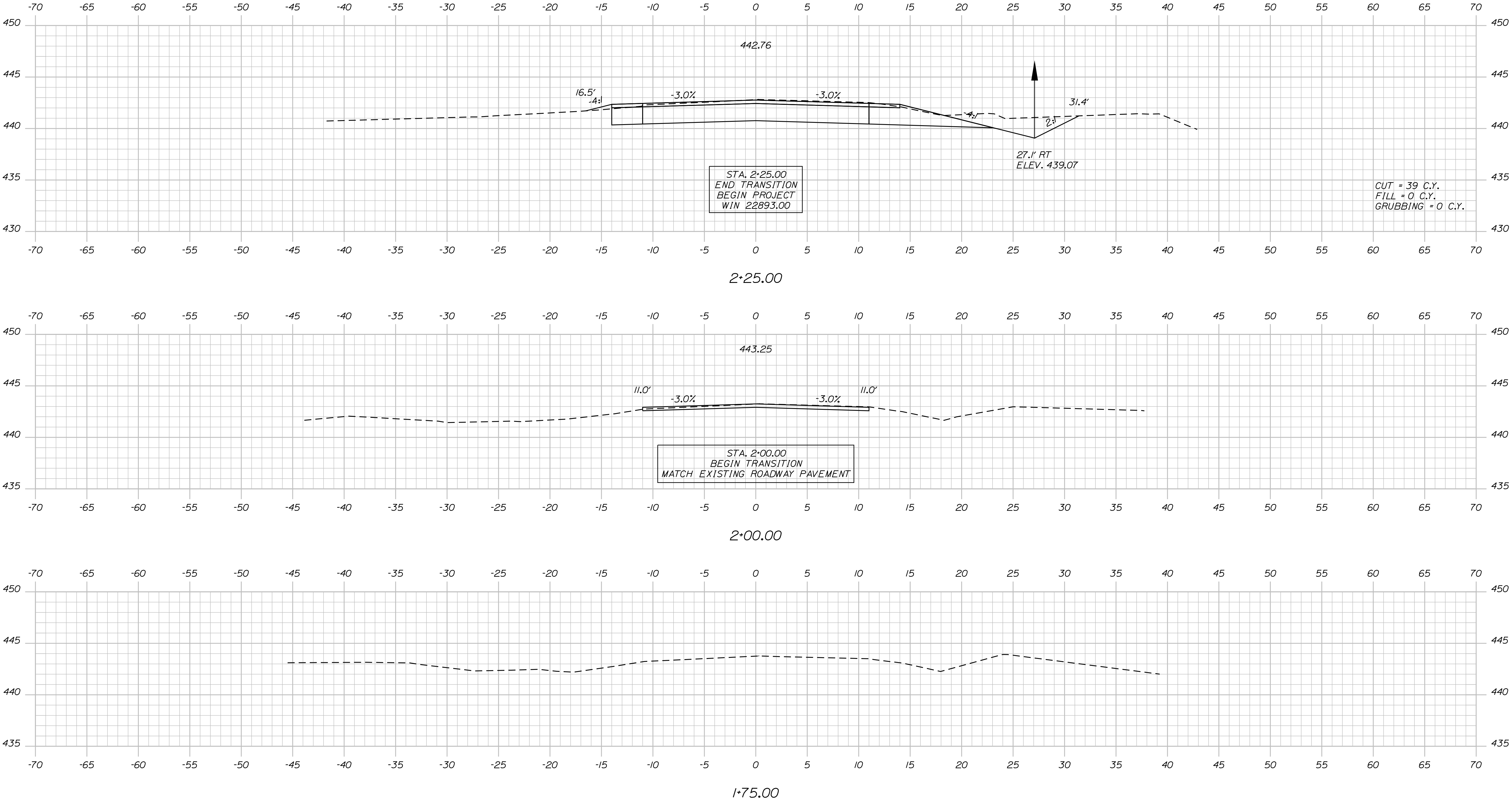
Maine Department of Transportation										Boring No.:		HB-LMI-102	
Soil/Bore Exploration Log US CUSTOMARY UNITS										Location: L1mington, Maine		WIN: 22893.00	
Drilling Contractor:Northern Test Boring					Elevation (ft.): 441.5					Auger 10/00: 5" Dia.			
Operator: Wills/In					Datum: NA088					Sampler: N/A			
Logged By: B. W.Tider					Rig Type: Siedlich D-55 Track					Hammer Wt./Fall: N/A			
Date Start/Finish: 6/9/2018: 07:30-10:30					Drilling Method: Solid Stem Auger					Core Barrel: N/A			
Boring Location: 2483.11, 10.9 ft Lt.					Casing 10/00: N/A					Water Level#: None Observed			
Drilling (ft.) = Soil Spoon Sample S = Samples off Auger Flight B = Bucket Sample off Auger Flange AB = Unconsolidated Soil Spoon Sample Attempt U = Thin Wall Tube Sample M = Unconsolidated Field Vane Shear Test Attempt V = Field Vane Shear Test M1 = Unconsolidated Thin Wall Tube Sample Attempt B = Bulk Core Sample S1A = Solid Stem Auger S1B = Hollow Stem Auger RC = Roller Core M1 = Weight of 140lb. Hammer W = Weight of Rods or Casing M2 = Weight of 1 Ton S1C = Unconsolidated Field Vane Unstrained Shear Strength (psi) S1C(1) = Unconsolidated Shear Strength (psi) S1C(2) = Unconsolidated Compressive Strength (psi) W = Wet Field SF = Moisture T = Moisture Sample Shear Strength (psi) W = Water Content, percent = 1 = Smaller or Equal to													
Sample Information										Visual Description and Remarks		Laboratory Testing Results/ASSTG and Unified Class	
Depth (ft.)	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Blow (1/6 in. Long) (lb-ft)	Penetration (lb-ft)	Pen. on (ft.)	Graphic Log						
0							SSA	Probe, no soil samples taken.					
5													
10													
15													
20													
25													
Remarks:													
Stratification lines represent approximate boundaries between soil types. Transitions may be gradual. * Water level readings have been made at times and under conditions shown. Groundwater fluctuations may occur due to conditions other than those presented at the time measurements were made.													
Page 1 of 1										Boring No.: HB-LMI-102			

Date:4/11/2019

Username:

Division: HIGHWAY

Filename: ... \22893.00 Limington\sect.DGN



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
022893.00	
WIN 022893.00	
HIGHWAY PLANS	

PROJ. MANAGER	L. HAMILTON	BY	DATE	SIGNATURE
DESIGN-DETAILED	T. WOLFEL	M. STEELE	3/2019	P.E. NUMBER
DESIGN-DETAILED	K. WOOD			DATE
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

LIMINGTON	
ROUTE 117	
CROSS SECTIONS	

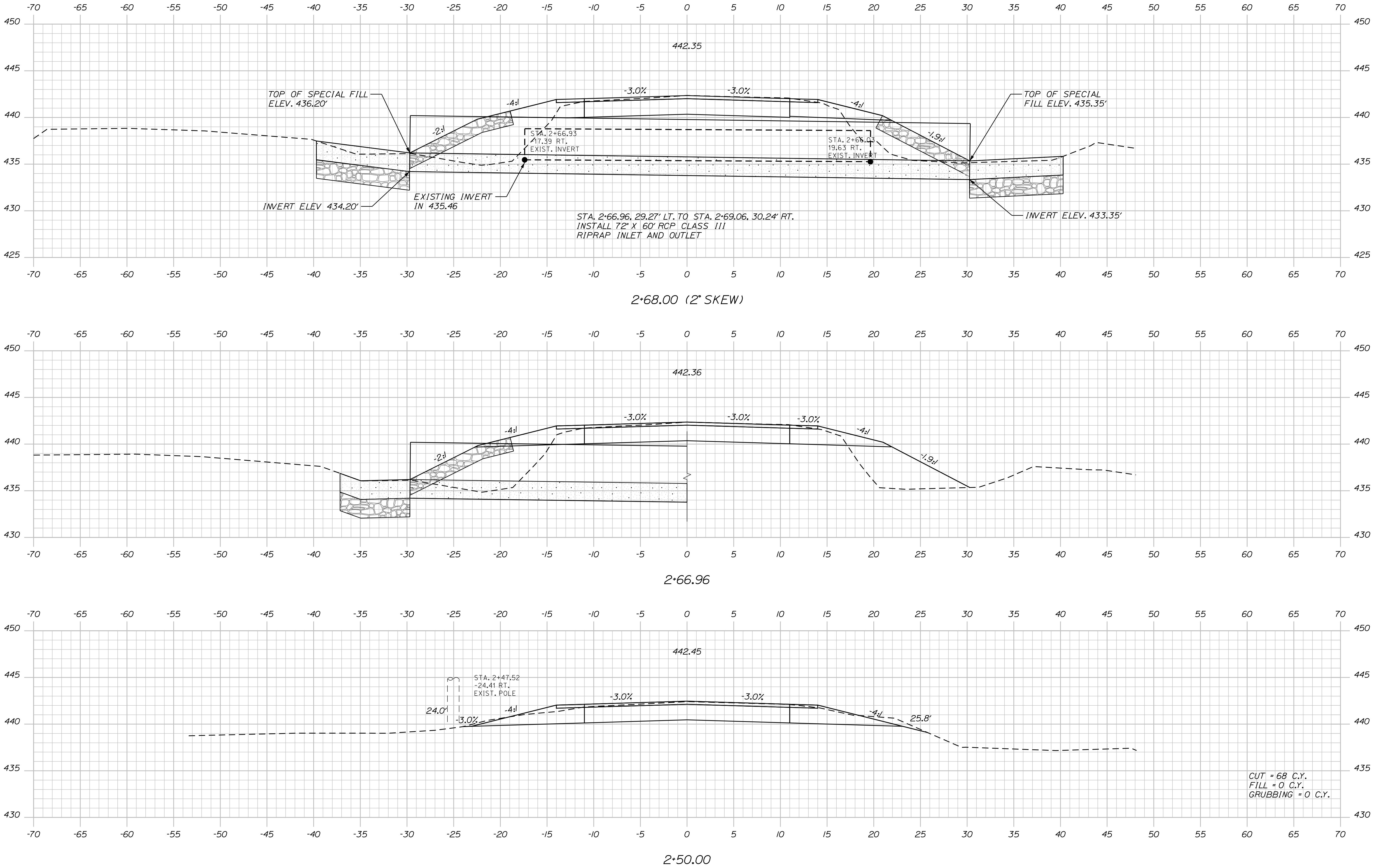
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6	
OF 10	

Date:4/11/2019

Username:

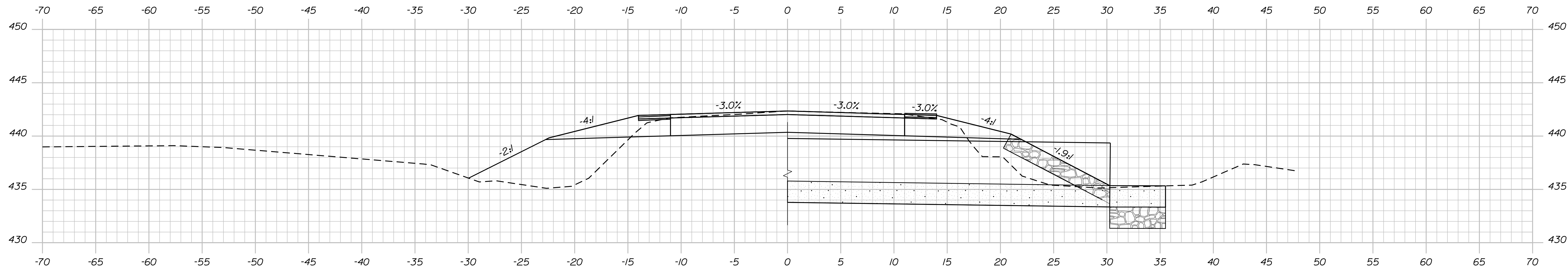
Division: HIGHWAY

Filename: ... \22893.00 Limington\sect.DGN



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		022893.00		WIN 022893.00		HIGHWAY PLANS	
LIMINGTON ROUTE 117		CROSS SECTIONS		SHEET NUMBER 7		OF 10	
PROJ. MANAGER L. HAMILTON		BY T. WOLFEL M. STEELE		DATE 3/2019 3/2019		SIGNATURE P.E. NUMBER DATE	
DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES							

Filename: ... \22893.00 Limington\xsect.DGN



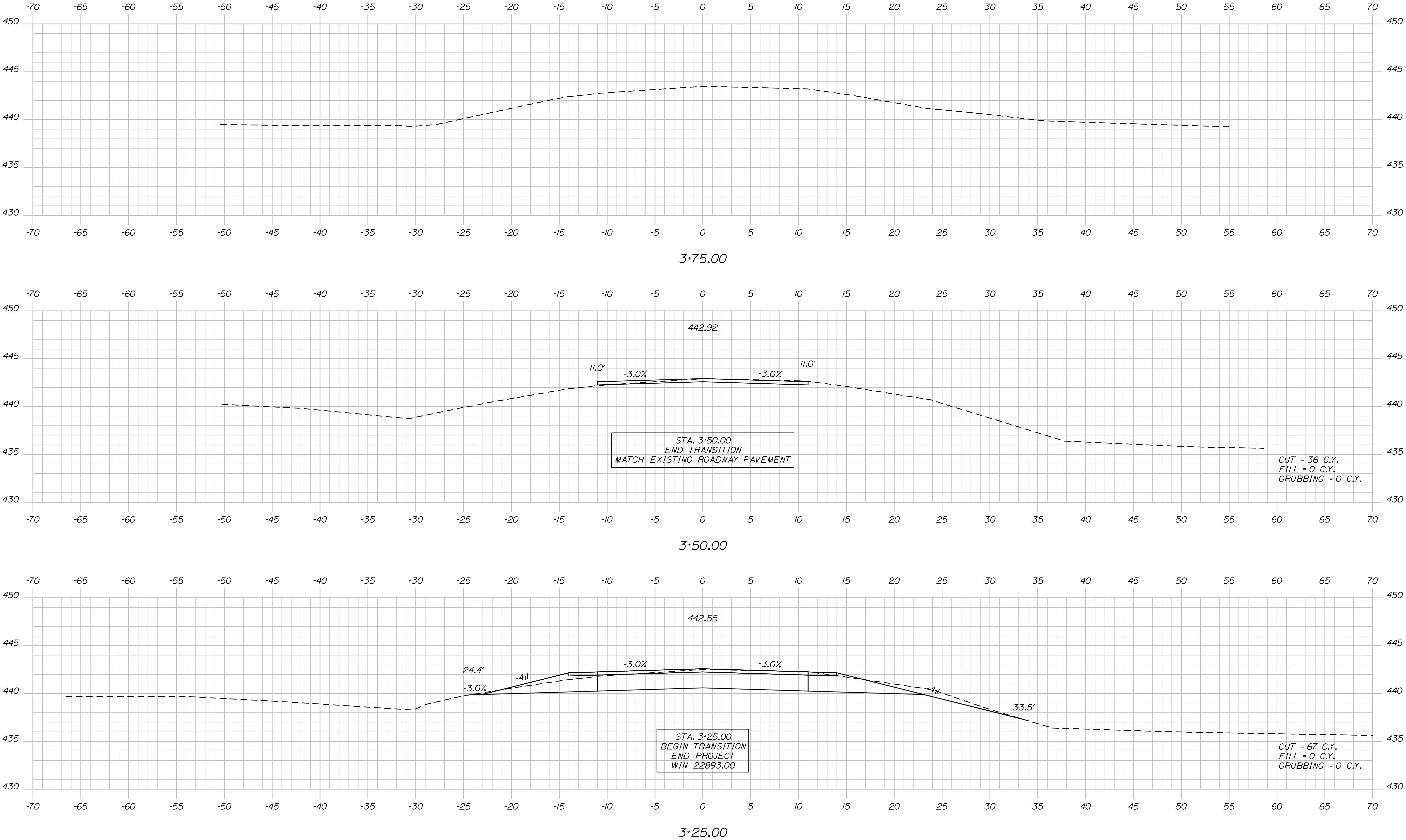
SHEET NUMBER
8
OF 10

Date:4/11/2019

Username:

Division: HIGHWAY

Filename: ... \22893.00 Limington\sect.DGN



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

022893.00

WIN
022893.00

HIGHWAY PLANS

PROJ. MANAGER
L. HAMILTON

CHECKED-REVIEWED
T. WOLFE
K. WOOD

DESIGN-DETAILED
T. WOLFE
M. STEELE

DESIGN-DETAILED
T. WOLFE
M. STEELE

REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4

DATE
3/2019
3/2019

BY
T. WOLFE
M. STEELE

DATE
3/2019
3/2019

SIGNATURE
P.E. NUMBER
DATE

LIMINGTON
ROUTE 117

CROSS SECTIONS

SHEET NUMBER

9

OF 10

[illegible]