

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



WILTON
FRANKLIN COUNTY

U.S. ROUTE 2
DANNY BOYS BRIDGE
BRIDGE NO. 6628

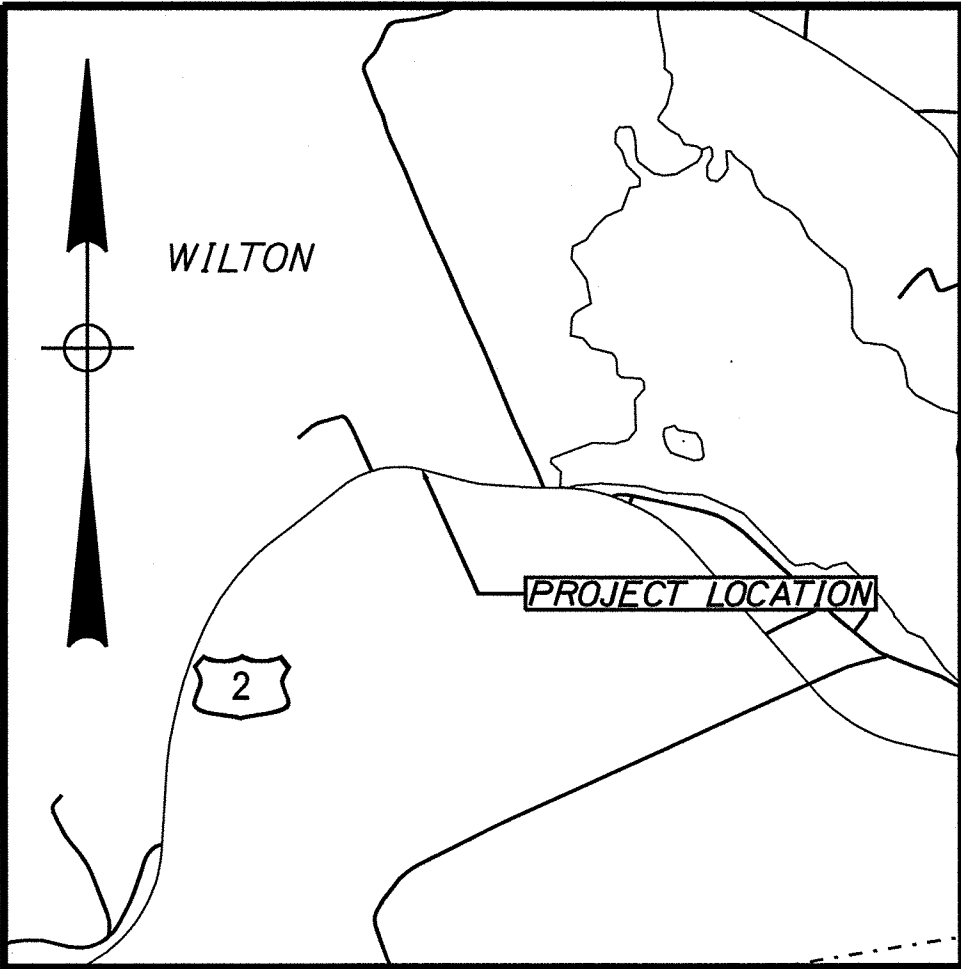
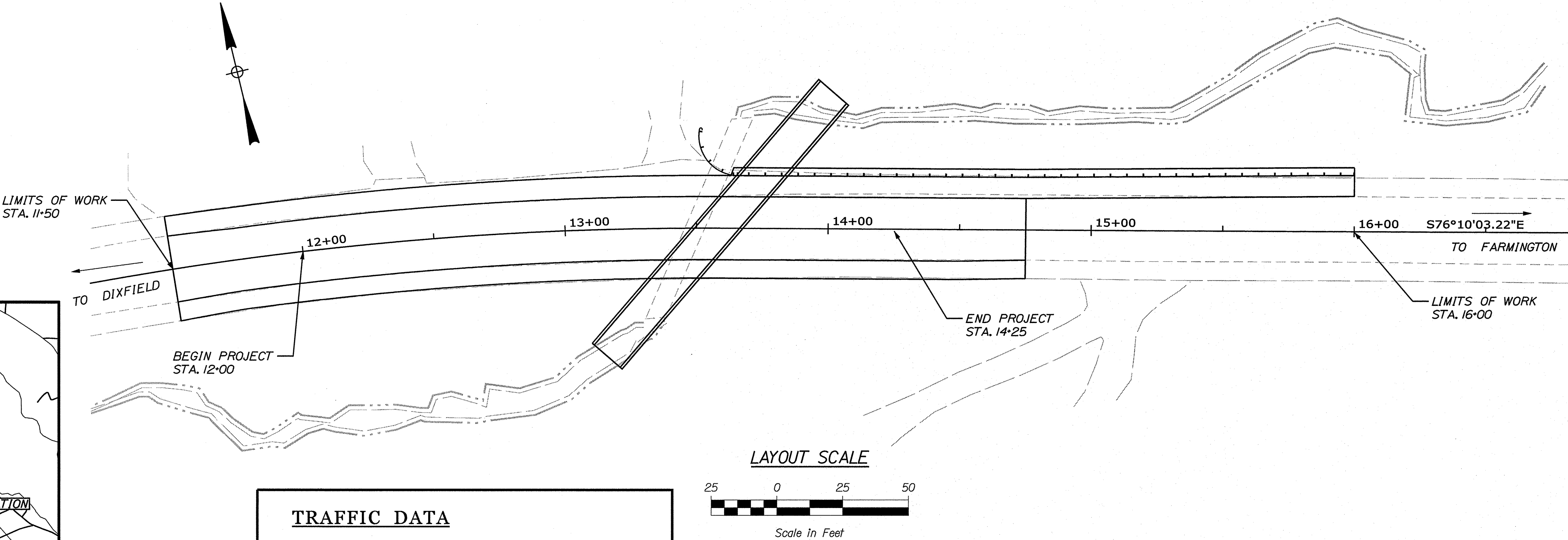
STATE HIGHWAY PROJECT NO. 23799.00
PROJECT LENGTH : 0.04 MILES

PLAN LEGEND

Town, County, State	Catch Basins	Existing	Proposed
Property Lines	Manholes	Existing	Proposed
R/W Lines-Existing	Proposed Underdrain		
R/W Lines-Proposed	Proposed Ditch		
Culvert-Existing	Existing Ditch		
Culvert Proposed	Utility Poles	Existing	Proposed
Curbing	Fire Hydrants	Existing	Proposed
Type 1	Existing Water Line		
Type 3	Existing San. Sewer		
Type 5	Existing San. Sewer Manhole		
Outline of Bodies of Water	Guardrail-Existing		
Exposed Bedrock	Guardrail-Proposed		
Buildings	Guardrail-Cable, Other		
Trees	Centerline-Existing		
Tree Line	Centerline-Proposed		
Clearing Limit Line	Travelway-Existing		
Railroad	Travelway-Proposed		
Boring	Probe		
Pavement Core			
Test Pit			

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TRAFFIC DATA

Current (2020) AADT	2980
Future (2032) AADT	3340
DHV - % of AADT	11%
Design Hour Volume	367
% Heavy Trucks (AADT)	22%
Directional Distribution (DHV)	50%
Design Speed (mph)	55
Functional Class	Other Principal Arterial
Corridor Priority	1

PROJECT LOCATION:

Located 0.13 of a mile east of Gammon Hill Road

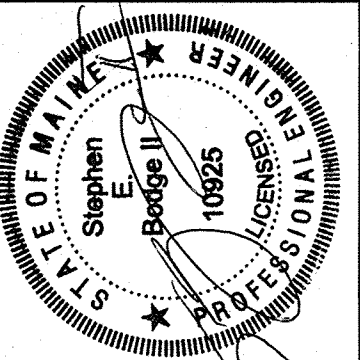
PROGRAM AREA:

Highway Program

SCOPE OF WORK:

Highway Safety and Spot Improvement
Large Culvert Replacement and Stream Relocation

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: [Signature]	12-25-21	1-25-22
CHIEF ENGINEER: [Signature]		



SIGNATURE	P.E. NUMBER	DATE
[Signature]	10925	12-30-2020

PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
HIGHWAY PROGRAM	J. G. WHITTINGTON	L. KANDIO					

WILTON U.S. ROUTE 2 TITLE SHEET

SHEET NUMBER
1
OF 23

WIN 23799.00 STATE PROJECT NO. 23799.00

CONSTRUCTION NOTES

ITEM 201.23 REMOVING SINGLE TREE - TOP ONLY

ITEM 201.24 REMOVING STUMP

<u>LOCATION</u>	<u>DESCRIPTION</u>
STA 13+14 38.8RT.	20" PINE

ITEM 203.20 COMMON EXCAVATION

EXISTING CULVERT TRENCH TO BE FILLED, STA. 13+60 LT. FILL FOR THIS LOCATION SHALL COME FROM SUITABLE MATERIAL EXCAVATED ONSITE. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO THE COMMON EXCAVATION ITEM.

EXISTING STREAM TRENCH TO BE FILLED, STA. 13+55 TO 15+65 LT. FILL FOR THIS LOCATION SHALL COME FROM SUITABLE MATERIAL EXCAVATED ONSITE. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO THE COMMON EXCAVATION ITEM.

ITEM 534.71 PRECAST CONCRETE BOX CULVERT

13' SPAN x 6' RISE x 132' LONG
STA. 13+15 RT. TO STA. 14+05 LT. SKEW: 40.5°

REMOVAL OF EXISTING DRAINAGE STRUCTURE SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.

ITEM 603.16 15 INCH CULVERT PIPE OPTION 1

LOCATION	LENGTH
STA. 13+25, 36.31' LT. TO STA. 13+58, 40.73' LT.	40 LF
ELEV: 595.00'	593.80'

ITEM 603.43 36 INCH REINFORCED CONCRETE PIPE - CLASS IV

<u>LOCATION</u>	<u>LENGTH</u>
STA. 12+08, 42.7' LT. TO STA. 12+41, 40.8' RT.	88 LF
ELEV: 593.90'	591.90'

ITEM 606.1301 3" W-BEAM GUARDRAIL - MIDWAY-SPLICE, SINGLE FACED

<u>LOCATION</u>	<u>LENGTH</u>
STA. 13+65.6, 20.0' LT. TO STA. 16+00, 20.5' LT.	234.37 LF

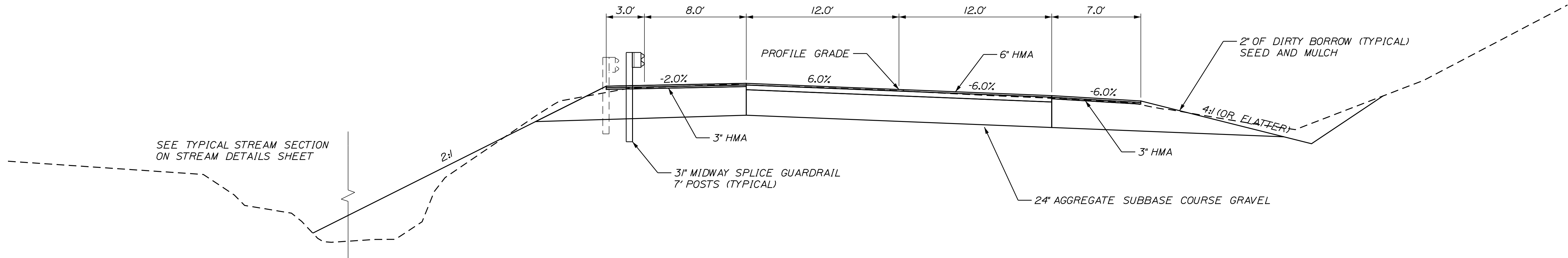
A 9'-4 1/2" BEAM SHALL BE INSTALLED TO TRANSITION INTO THE EXISTING RAIL. ATTACHMENT SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

ITEM 606.1303 31" W-BEAM GUARDRAIL - MIDWAY-SPLICE, 15' RADIUS AND LESS

<u>LOCATION</u>	<u>LENGTH</u>
STA. 13+65.6 20.0' LT. (GRASSED ENT.)	15 LF

ITEM 606.1304 31" W-BEAM GUARDRAIL - MIDWAY-SPLICE, OVER 15' RADIUS

<u>LOCATION</u>	<u>LENGTH</u>
STA. 13+65.6 20.0' LT. (GRASSED ENT.)	15 LF



TYPICAL SECTION

NOT TO SCALE

TYPICAL SECTION NOTES

1. WHEN SUPER ELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER WILL HAVE SAME SLOPE AS THE TRAVELWAY.
2. CROSS SLOPES FOR NORMAL AND SUPERELEVATED SECTIONS WILL BE STRAIGHT UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
3. THE ALGEBRAIC DIFFERENCE BETWEEN TRAVELWAY AND SHOULDER CROSS SLOPE SHALL NOT EXCEED 8 PERCENT.
4. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES. FOR COMPARABLE CORRUGATED SIZES SEE THE DRAINAGE TABULATION.

ITEM 613.319 EROSION CONTROL BLANKET

LOCATION	QTY
STA 12+55 TO 13+15 LT	42 SY
STA 13+55 TO 14+50 RT	51 SY

ITEM 620.58 EROSION CONTROL GEOTEXTILE

<u>QUILVERT FENDS</u>	<u>INLET</u>	<u>OUTLET</u>
STA. 13+07 RT.		
TO STA. 13+36 RT.	13 SY	
STA. 13+82 LT.		
TO STA. 14+09 LT.		13 SY

SLOPE LOCATIONS

STA. 13+16 TO STA. 13+36 RT.
STA. 13+45 TO STA. 14+43 RT.
STA. 15+50 TO STA. 16+00 LT.

DRIVES AND ENTRANCES

<u>STATIONING</u>	<u>TYPE</u>
STA. 12+35 LT.	GRAVEL DR.
STA. 13+40 LT.	GRASSED ENT.

WILTON
U.S. ROUTE 2
CONSTRUCTION NOT
TYPICAL SECTION

SHEET NUMBER

2

OF 23

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

023799.00

WIN

HIGHWAY PLANS

23799.00

GENERAL NOTES

1. 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.
2. ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR 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. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.
5. 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.
6. 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.
7. 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.
8. GRASSED ENTRANCES SHALL BE CONSTRUCTED WITH 12 INCHES AGGREGATE SUBBASE COURSE - GRAVEL AND 2 INCHES LOAM, SEED & MULCH UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
9. A 3 FOOT PAVED LIP SHALL BE PLACED AT ALL UNPAVED ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.
10. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
11. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.
12. ALL EXISTING GUARDRAIL SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
13. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END.
14. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL WILL BE CONSIDERED INCIDENTAL TO ITEM 606.
15. DIRTY BORROW HAS BEEN ESTIMATED FOR ALL DISTURBED SLOPE AREAS OTHER THAN LAWN AREAS. ACTUAL PLACEMENT OF THE DIRTY BORROW SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.
16. 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.
17. DIRTY BORROW SHALL BE PLACED TO A NOMINAL DEPTH OF 2 INCHES UNLESS OTHERWISE NOTED OR DIRECTED.
18. 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.
19. THE PROJECT GEOTECHNICAL REPORT TITLED 'GEOTECHNICAL DESIGN REPORT FOR THE CONSTRUCTION OF: DANNY BOYS BRIDGE, SOILS REPORT 2020-46, DECEMBER 14, 2020 CAN BE ACCESSED AT THE MAINE DOT WEBSITE [HTTP://WWW.MAINE.GOV/JMDOT/CONTRACTORS/](http://www.maine.gov/jmdot/contractors/).
20. 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.
21. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
22. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.
23. 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.
24. 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.
25. THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION (MDEP) HAS REPORTED A SPILL AND RELEASES INVOLVING PETROLEUM PRODUCTS/PAINTS ADJACENT TO THE PROJECT. IN PARTICULAR, IN THE AREA OF THE DRAINAGE LEADING TO THE CULVERT REPLACEMENT PROJECT, THE SPILL WAS CLEANED UP TO THE SATISFACTION OF THE MDEP. BASED ON THE SCOPE OF WORK PRESENTED, AVAILABLE DATA SUGGESTS THAT THIS CONTAMINATION MAY ONLY BE ADJACENT TO THE IMMEDIATE AREAS OF ANY EXCAVATION PROPOSED BY THE MAINE DEPARTMENT OF TRANSPORTATION (MAINE DOT). HOWEVER, IN LIGHT OF MDEP'S FINDINGS, THE CONTRACTOR SHALL EMPLOY APPROPRIATE HEALTH AND SAFETY MEASURES TO PROTECT ITS WORKERS AGAINST HAZARDS ASSOCIATED WITH WORKING NEAR PETROLEUM-IMPACTED SOILS. FURTHERMORE, THE CONTRACTOR SHALL REMAIN ALERT FOR ANY ADDITIONALLY EVIDENCE OF CONTAMINATION. IF THE CONTRACTOR ENCOUNTERS EVIDENCE OF SOIL OR GROUNDWATER CONTAMINATION, THE CONTRACTOR SHALL SECURE THE EXCAVATION, STOP WORK IN THE CONTAMINATED AREA, AND IMMEDIATELY NOTIFY THE RESIDENT. THE RESIDENT SHALL CONTACT THE SENIOR GEOLOGIST IN MDT'S ENVIRONMENTAL OFFICE AT 207-624-3100 AND THE MDEP AT 800-482-0777. WORK MAY ONLY CONTINUE WITH AUTHORIZATION FROM THE RESIDENT.

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE - TOP ONLY	1	EA
201.24	REMOVING STUMP	1	EA
203.20	COMMON EXCAVATION	1950	CY
203.25	GRANULAR BORROW	705	CY
203.33	SPECIAL FILL	215	CY
206.07	STRUCTURAL ROCK EXCAVATION - DRAINAGE & MINOR STRUCTURES	245	CY
304.10	AGGREGATE SUBBASE COURSE GRAVEL	1080	CY
403.2081	12.5mm POLYMER MODIFIED HMA	125	T
403.213	HOT MIX ASPHALT - 12.5mm BASE	145	T
403.2131	12.5mm POLYMER MODIFIED HMA - BASE	125	T
409.15	BITUMINOUS TACK COAT - APPLIED	68	G
508.13	SHEET WATERPROOFING MEMBRANE (195 SY)	1	LS
511.07	COFFER DAM - UPSTREAM OF BOX CULVERT	1	LS
511.07	COFFER DAM - DOWNSTREAM OF BOX CULVERT	1	LS
511.07	COFFER DAM - DOWNSTREAM OF STREAM RELOCATION	1	LS
511.07	COFFER DAM - UPSTREAM OF RCP	1	LS
511.07	COFFER DAM - DOWNSTREAM OF RCP	1	LS
534.71	PRECAST CONCRETE BOX CULVERT (206 CY)	1	LS
603.16	15 INCH CULVERT PIPE OPTION 1	40	LF
603.43	36 INCH REINFORCED CONCRETE PIPE CLASS IV	88	LF
603.55	CONCRETE PIPE TIES	4	GR
606.1301	31"W-BEAM GUARDRAIL - MID-WAY SPLICE, SINGLE FACED	234.37	LF
606.1303	31"W-BEAM GUARDRAIL - MID-WAY SPLICE, 15' RADIU AND LESS	15	LF
606.1304	31"W-BEAM GUARDRAIL - MIDWAY SPLICE, OVER 15' RADIUS	15	LF
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	1	EA
606.353	REFLECTORIZED, FLEXIBLE GUARDRAIL MARKER	2	EA
610.08	PLAIN RIPRAP	150	CY
610.21	STREAM CHANNEL ROCK	536	CY
610.212	STREAMBED ROCK FEATURES	5	CY
613.319	EROSION CONTROL BLANKET	94	SY
615.086	COMPOST BLANKET	165	CY
615.10	DIRTY BORROW	110	CY
618.14	SEEDING METHOD NO. 2	13	UN
618.143	SPECIAL SEED MIX: WILTON BUFFER MIX	9	UN
619.12	MULCH	13	UN
619.14	EROSION CONTROL MIX	25	CY
620.58	EROSION CONTROL GEOTEXTILE	210	SY
621.02	EVERGREEN TREES 2'-3' GROUP B	5	EA
621.246	LARGE DECIDUOUS TREES 3'-4' GROUP A CONT.	15	EA
621.247	LARGE DECIDUOUS TREES 4'-5' GROUP A CONT.	15	EA
621.248	LARGE DECIDUOUS TREES 5'-6' GROUP A CONT.	10	EA
621.2481	LARGE DECIDUOUS TREES 5'-6' GROUP B CONT.	20	EA
621.249	LARGE DECIDUOUS TREES 6'-8' GROUP A CONT.	10	EA
621.250	LARGE DECIDUOUS TREES 6'-8' GROUP B CONT.	10	EA
621.535	DECIDUOUS SHRUBS 15'-18" GROUP A CONT.	25	EA
621.536	DECIDUOUS SHRUBS 15'-18" GROUP B CONT.	10	EA
621.540	DECIDUOUS SHRUBS 18"-24" GROUP A CONT.	20	EA
621.541	DECIDUOUS SHRUBS 18"-24" GROUP B CONT.	10	EA
621.546	DECIDUOUS SHRUBS 2'-3' GROUP A CONT.	15	EA
621.547	DECIDUOUS SHRUBS 2'-3' GROUP B CONT.	10	EA
621.548	DECIDUOUS SHRUBS 2'-3' GROUP C CONT.	15	EA
621.710	HERBACEOUS PERENNIALS GROUP A 1 GAL. CONT.	30	EA
621.711	HERBACEOUS PERENNIALS GROUP B 1 GAL. CONT.	20	EA
621.713	PERENNIALS GROUP A 1 QT. CONT.	20	EA
621.80	ESTABLISHMENT PERIOD - TWO YEAR WARRANTY BOND	1	INC.
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKER LINE	1100	LF
629.05	HAND LABOR, STRAIGHT TIME	20	HR
631.12	ALL-PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE - TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.33	DRUM	30	EA
652.34	CONE	30	EA
652.35	CONSTRUCTION SIGNS	288	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	50	CD
652.38	FLAGGER	50	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA
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

STATE OF MAINE
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023799.00
WIN
23799.00
HIGHWAY PLANS

WILTON
U.S. ROUTE 2

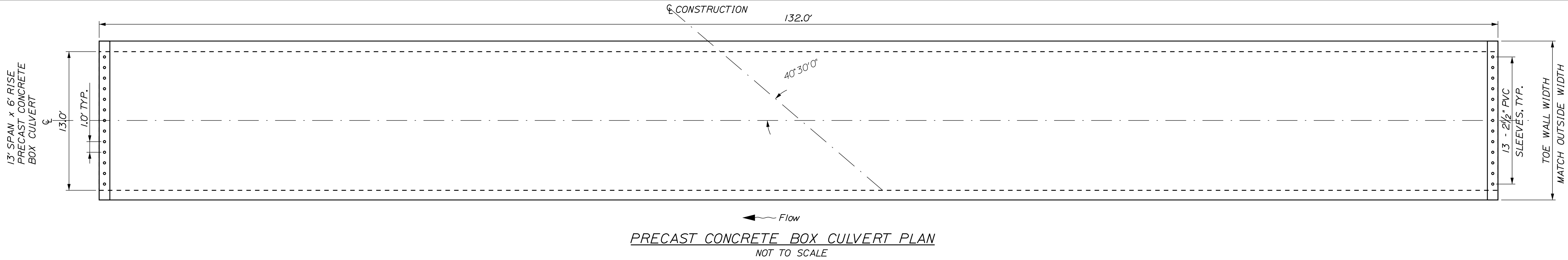
GENERAL NOTES &
ESTIMATED QUANTITIES

DATE
DEC 2020
JUNE 2019

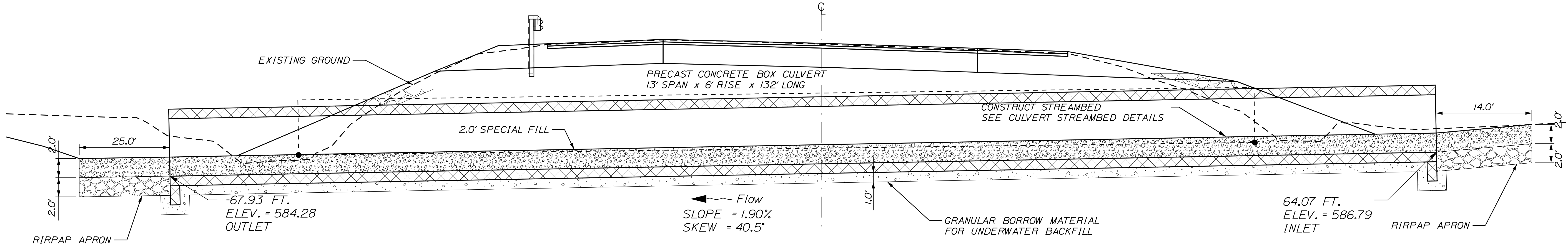
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DATE

PROJ. MANAGER J. G. WHITTINGTON
DESIGN-DETAILED L. KANDKO
DESIGN-REVIEWED C. RUSSELL
DESIGN-DETAILED T. WHITE
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

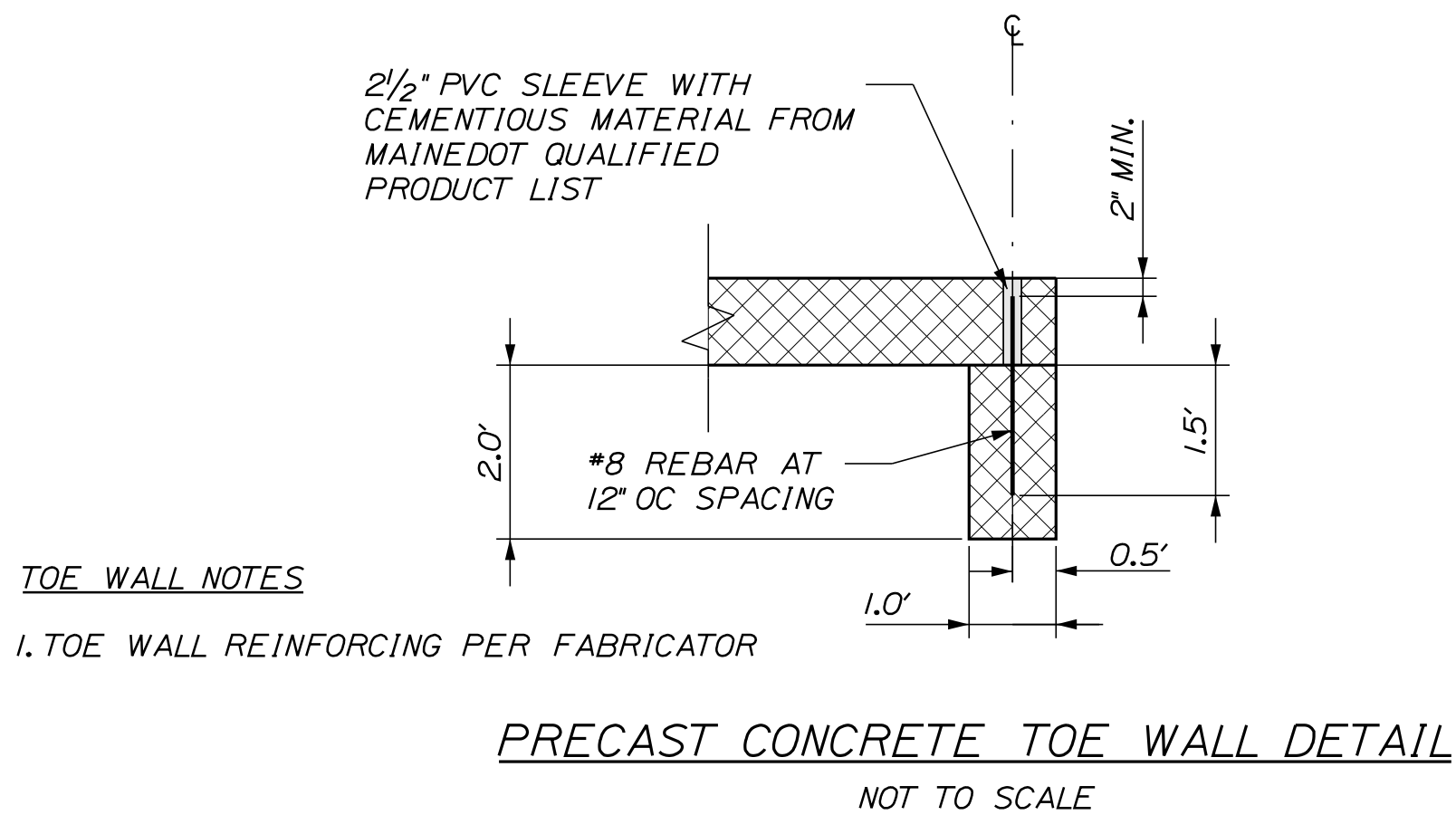
SHEET NUMBER
3
OF 23



PRECAST CONCRETE BOX CULVERT PLAN
NOT TO SCALE



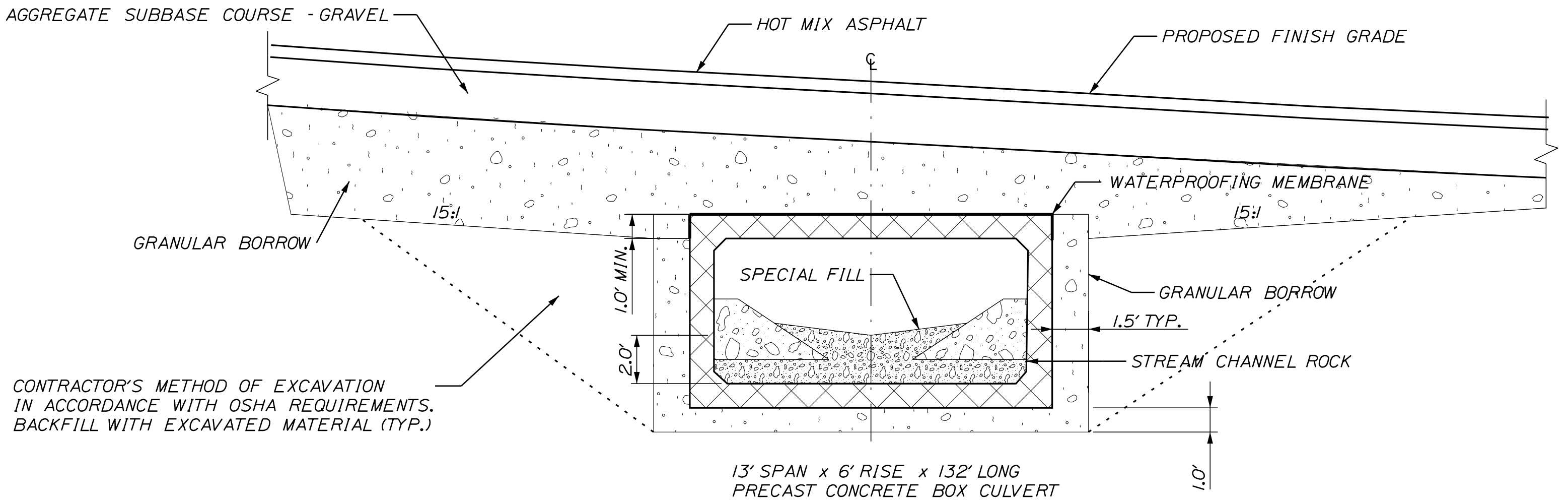
LONGITUDINAL PRECAST CONCRETE BOX CULVERT SECTION
NOT TO SCALE



PRECAST CONCRETE TOE WALL DETAIL
NOT TO SCALE

CULVERT NOTES

1. A "CLAMSHELL" CONCRETE BOX CULVERT SHALL BE USED. THE "CLAMSHELL" SHALL BE DIVIDED SUCH THAT THE BOTTOM SECTION WILL HAVE A MINIMUM OF 4'-0" OF THE CULVERT'S HEIGHT.
2. INSTALL STANDARD MEMBRANE WATERPROOFING OVER THE TOP AND TO AT LEAST 12 INCHES DOWN THE EXTERIOR SIDES OF PRECAST UNITS.
3. CONSTRUCTION, HANDLING, AND ASSEMBLY OF THE PRECAST UNITS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS APPLICABLE.
4. THE PRECAST CONCRETE BOX CULVERT SHALL BE BEDDED ON A 1-FOOT LAYER OF COMPACTED GRANULAR BORROW MATERIAL MEETING THE REQUIREMENTS FOR UNDERWATER BACKFILL.
5. RIPRAP WILL BE USED TO INSLOPE AROUND THE CULVERT ENDS AT BOTH THE INLET AND OUTLET. SEE PLAN AND CROSS SECTIONS FOR LOCATIONS.
6. VOIDS IN RIPRAP SHALL BE IN-FILLED WITH SPECIAL FILL, WATERED IN, AND TAMPED PRIOR TO COVERING WITH SPECIAL FILL.
7. COFFERDAMS ARE TO BE PLACED AT THE DOWNSTREAM AND UPSTREAM ENDS OF THE CULVERT TO ALLOW CONSTRUCTION OF THE CULVERT IN THE DRY.



TYPICAL PRECAST CONCRETE BOX CULVERT SECTION
NOT TO SCALE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	023799.00	WIN 23799.00	HIGHWAY PLANS
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PROJ. MANAGER J. G. WHITTINGTON	BY L. KANDIKO	DATE DEC. 2020	SIGNATURE
CHECKED-REVIEWED	DESIGNED-DETAILS	DESIGNED-DETAILS	P.E. NUMBER
REVISIONS 1	REVISIONS 2	REVISIONS 3	DATE
REVISIONS 4	FIELD CHANGES		

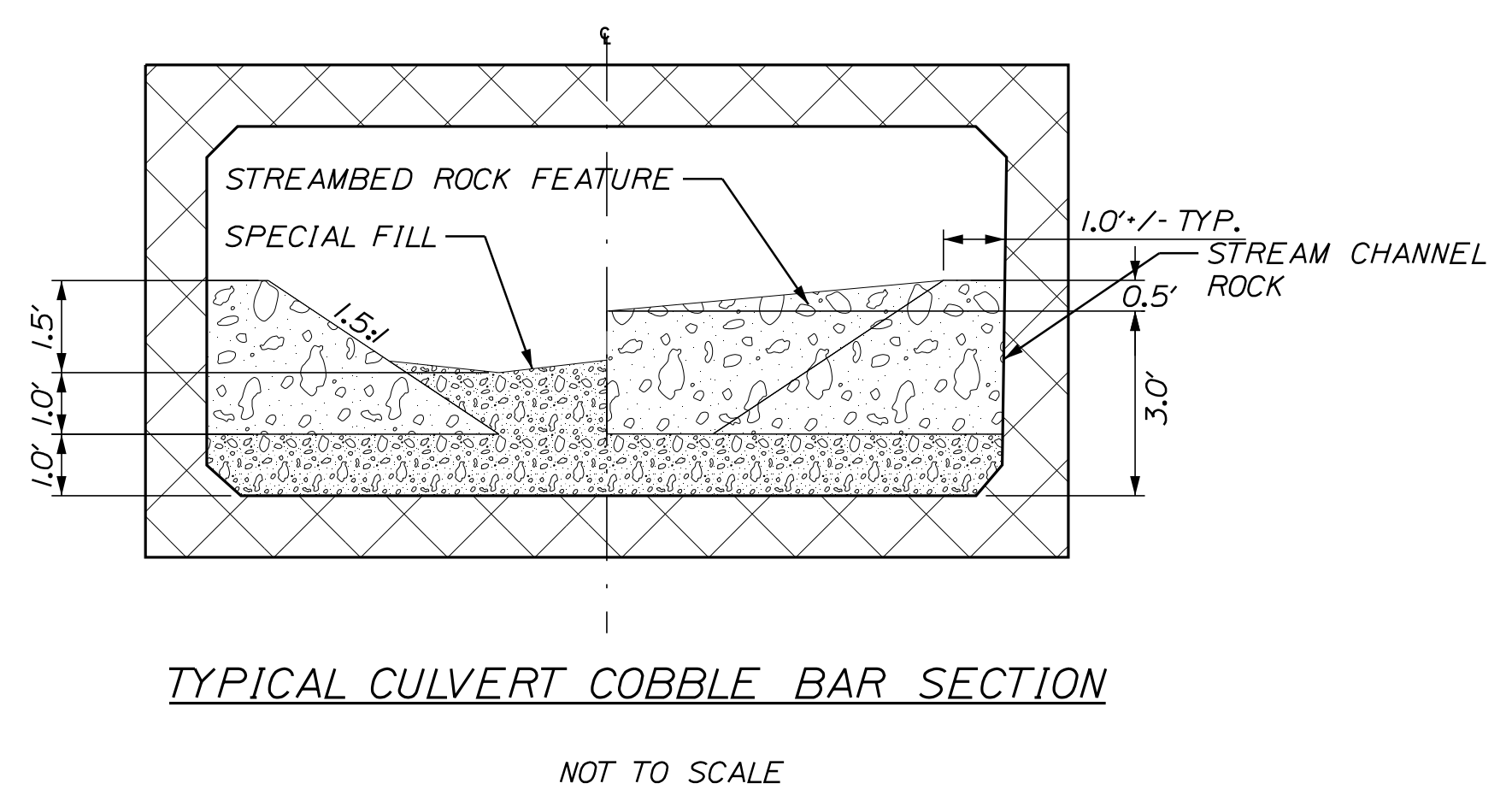
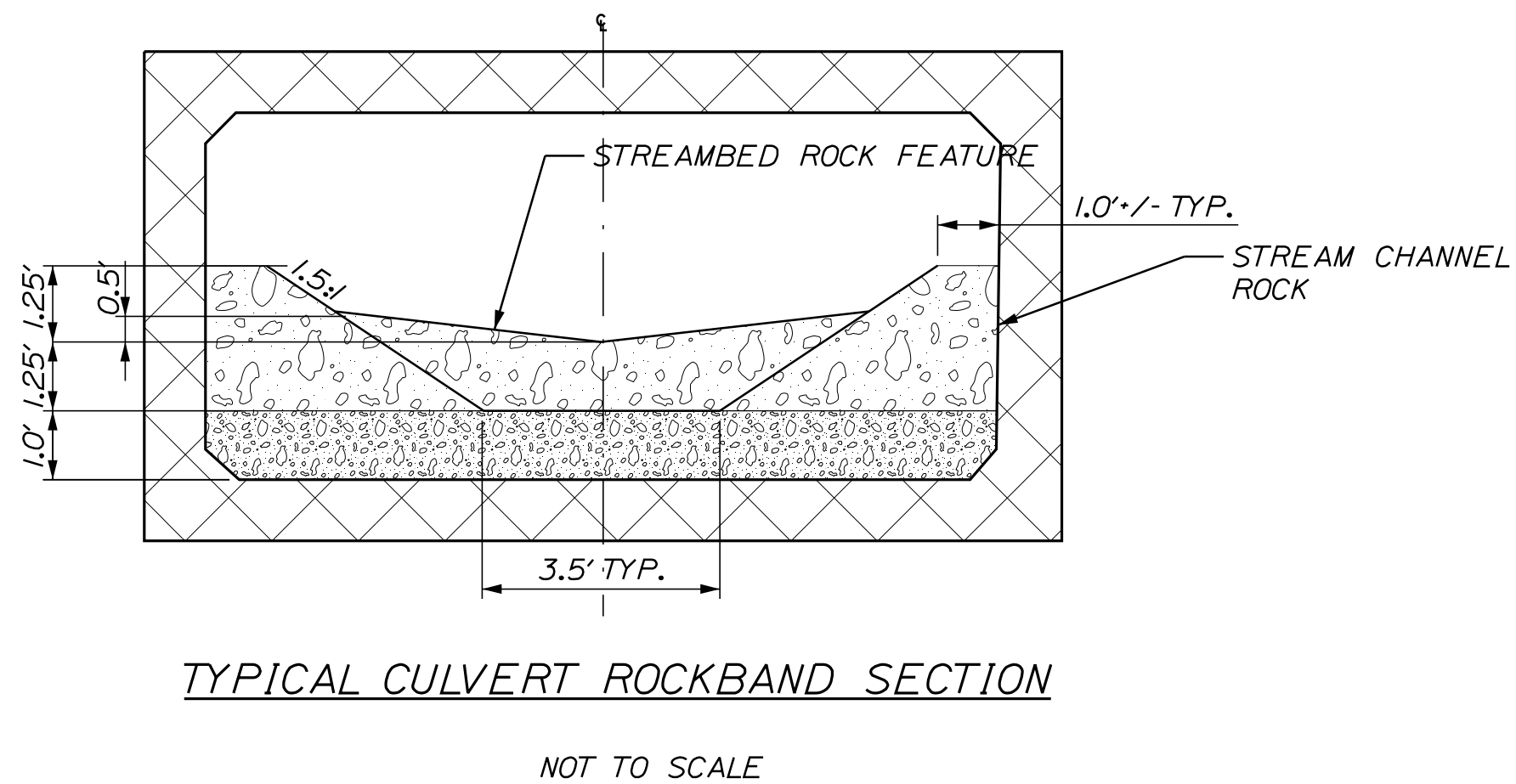
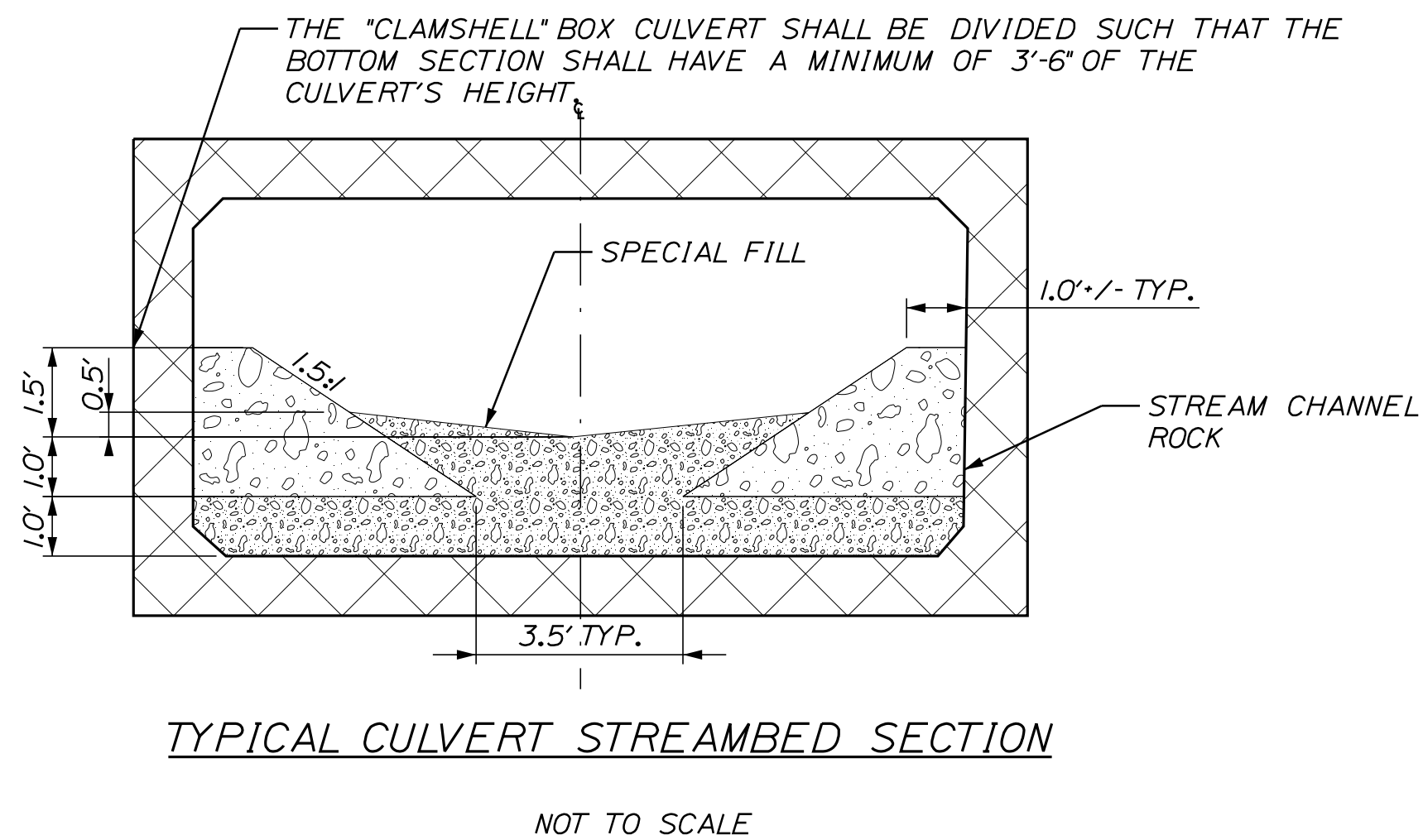
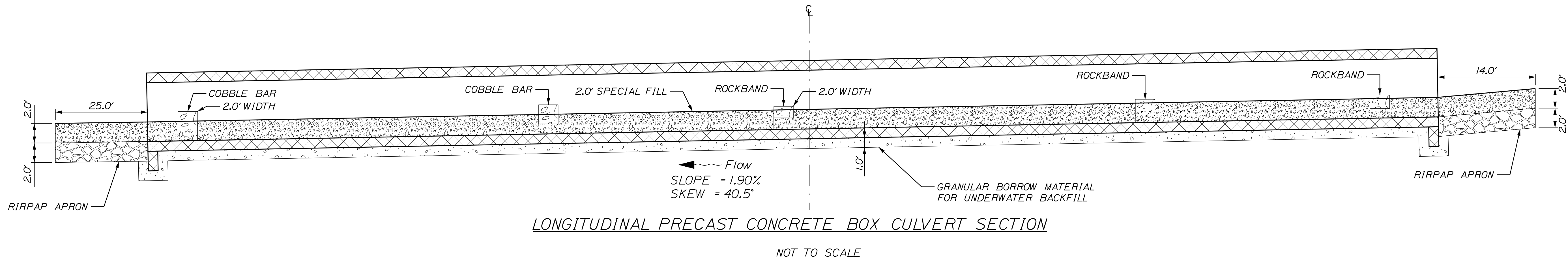
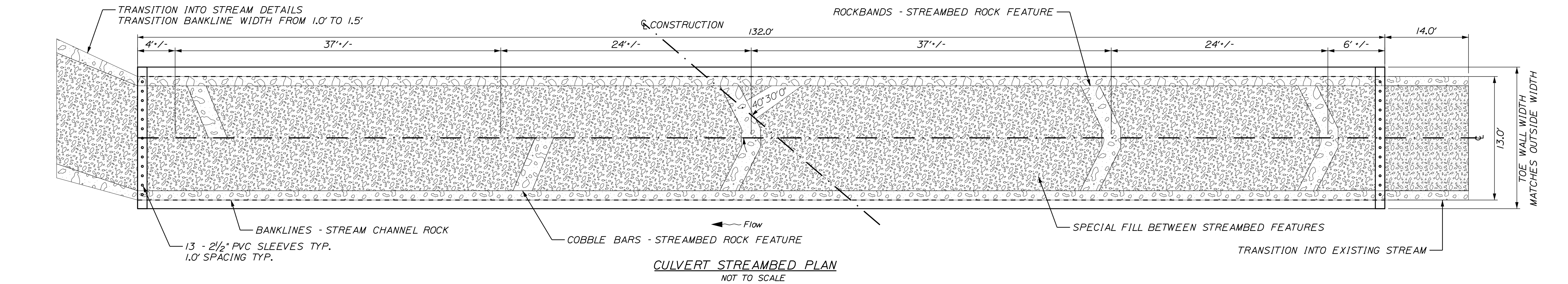
WILTON
U.S. ROUTE 2
CULVERT DETAILS

Date:12/18/2020

Username: common

Division: HIGHWAY

Filename: ...\\MSTAD005_StreambedDetail.dgn



STREAMBED NOTES

1. SPECIAL FILL SHALL BE CONSTRUCTED IN ACCORDANCE TO SPECIAL PROVISION 203 - SPECIAL FILL
2. BANK LINES SHALL BE CONSTRUCTED IN ACCORDANCE TO SPECIAL PROVISION 610 - STREAM CHANNEL ROCK
3. ROCK BANDS SHALL BE CONSTRUCTED IN ACCORDANCE TO SPECIAL PROVISION 610 - STREAMBED ROCK FEATURES
4. COBBLE BARS SHALL BE CONSTRUCTED IN ACCORDANCE TO SPECIAL PROVISION 610 - STREAMBED ROCK FEATURES
5. SPECIAL FILL, STREAM CHANNEL ROCK AND STREAMBED ROCK FEATURES SHALL BE PLACED IN THE CULVERT SO AS TO NOT DAMAGE THE CULVERT. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT AT THE CONTRACTOR'S EXPENSE.

6. THE CONTRACTOR SHALL RELEASE THE COFFERDAMS IN A MANNER SO AS TO NOT DAMAGE OR MOVE THE STREAMBED MATERIAL. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

7. PAYMENT FOR ANY NECESSARY GRADING AT THE INLET OR OUTLET WILL BE CONSIDERED INCIDENTAL TO ITEM 203 - SPECIAL FILL.

8. DIMENSIONS WITHOUT TOLERANCES ARE INTENDED TO BE NOMINAL. NO FINE GRADING OF THE STREAMBED WILL BE REQUIRED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
023799.00
WIN 23799.00
HIGHWAY PLANS

PROJ. MANAGER J. G. WHITTINGTON	BY	DATE
DESIGN-DETAILED L. KANDIKO	DEC 2020	SIGNATURE
CHECKED-REVIEWED C. RUSSELL	JUNE 2019	P.E. NUMBER
DESIGN-DETAILED T. WHITE		DATE
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WILTON
U.S. ROUTE 2
CULVERT STREAMBED DETAILS

SHEET NUMBER
5
OF 23

PROPOSED STREAM RELOCATION PLANTING

- * Final plant list subject to size and availability adjustments
- Trees Proposed 75 trees 12'oc 18"-24", 2'-3', 3'-4', 4'-5', 5'-6',6'-8'
- Abies balsamea (Balsam Fir)
 - Acer rubrum (Red Maple)
 - Betula allegheniensis (Yellow Birch)
 - Betula papyrifera (Paper Birch)
 - Fraxinus americana (White Ash)
 - Fraxinus nigra (Black Ash)
 - Fraxinus pennsylvanicum (Green Ash)

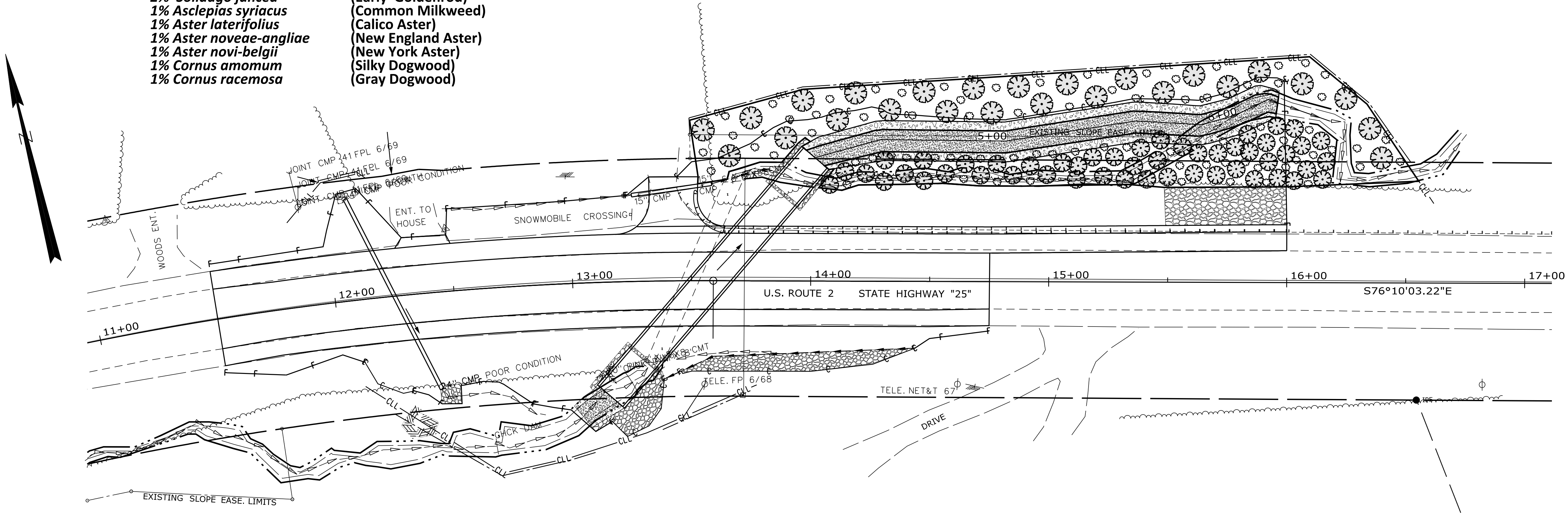
- Shrubs Proposed 75 shrubs 12'oc 15"- 18", 18"- 24", 24"- 30"
- Alnus rugosa (Speckled Alder)
 - Cornus amomum (Silky Dogwood)
 - Cornus racemosa (Gray Dogwood)
 - Cornus sericea (Red-Twig Dogwood)
 - Comptonia peregrina (Sweet Fern)
 - Fagus grandifolia (American Beech)
 - Hamamelis virginiana (Witchhazel)
 - Myrica pensylvanica (Bayberry)
 - Ostrya virginiana (Eastern Hophornbeam)
 - Spiraea latifolia (Meadowsweet Spiraea)
 - Viburnum dentatum (Arrowwood)

- Perennial/Ferns 60 1 qt./1 gal. ferns/perennials stream buffer area
- Dryopteris novaboracensis (New York Fern)
 - Osmunda cinnamomea (Cinnamon Fern)
 - Osmunda regalis (Royal Fern)
 - Tiarella cordifolia (Foam Flower)

- Seeding Native grasses, pollinators, woody shrubs
- 30% Panicum virgatum (Switch Grass)
 - 20% Panicum "Redtop" (Redtop Switch Grass)
 - 15% Schizachyrium scoparium (Little Bluestem)
 - 15% Calamagrostis canadensis (Canada Bluejoint)
 - 5% Cornus sericea (Red Twig Dogwood)
 - 5% Ilex verticillata (Winterberry)
 - 2% Penstemon sedoides (Ditch Stonecrop)
 - 2% Solidago juncea (Early Goldenrod)
 - 1% Asclepias syriacus (Common Milkweed)
 - 1% Aster laterifolius (Calico Aster)
 - 1% Aster noveae-angliae (New England Aster)
 - 1% Aster novi-belgii (New York Aster)
 - 1% Cornus amomum (Silky Dogwood)
 - 1% Cornus racemosa (Gray Dogwood)

CONSTRUCTION NOTES

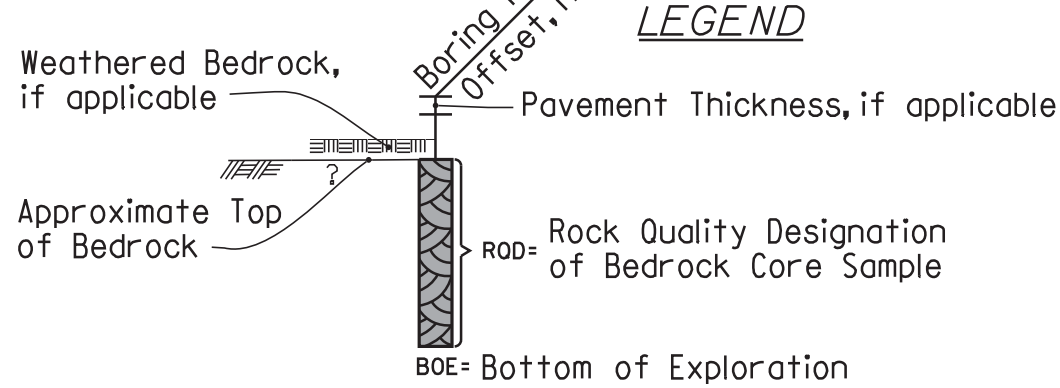
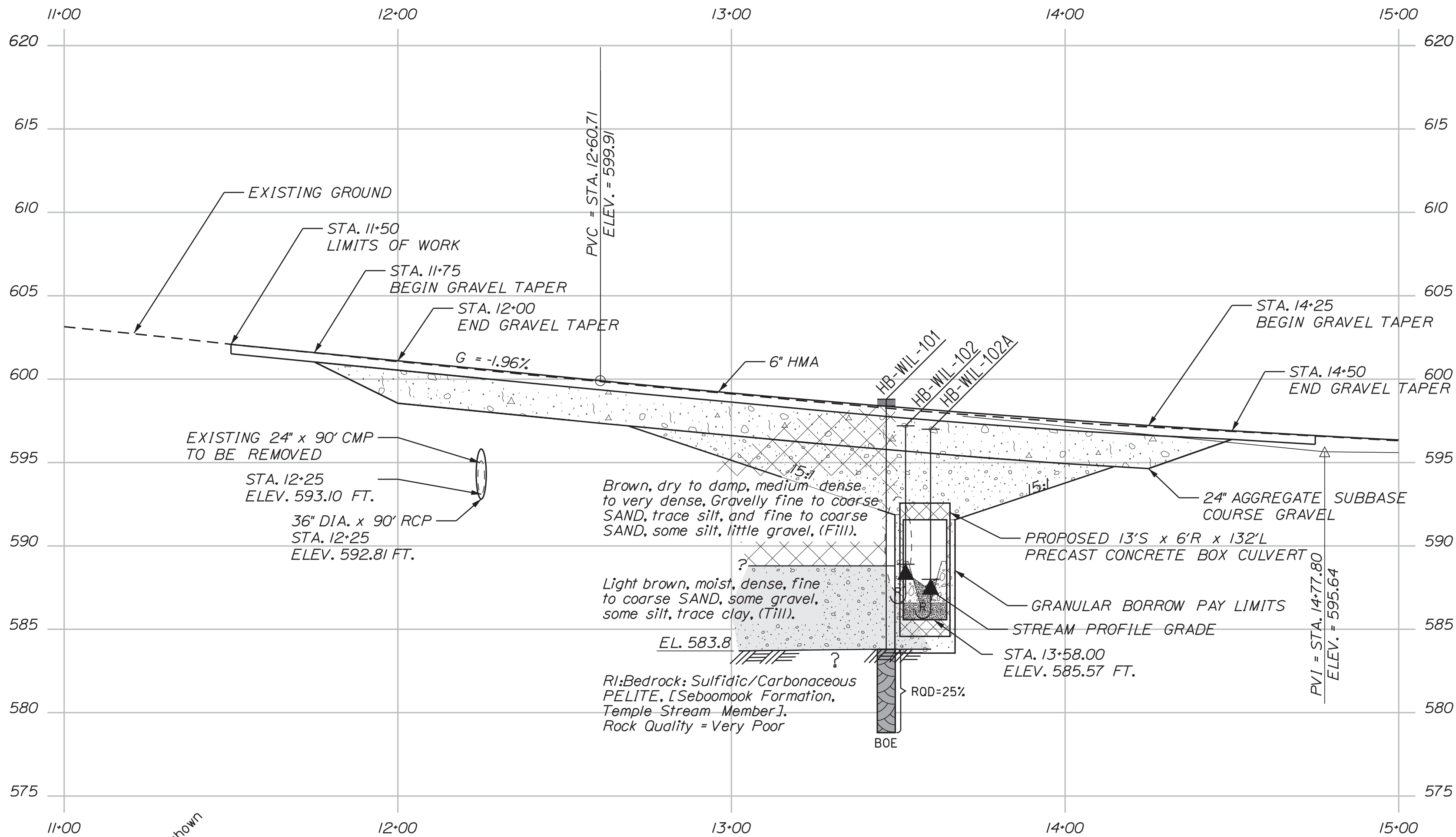
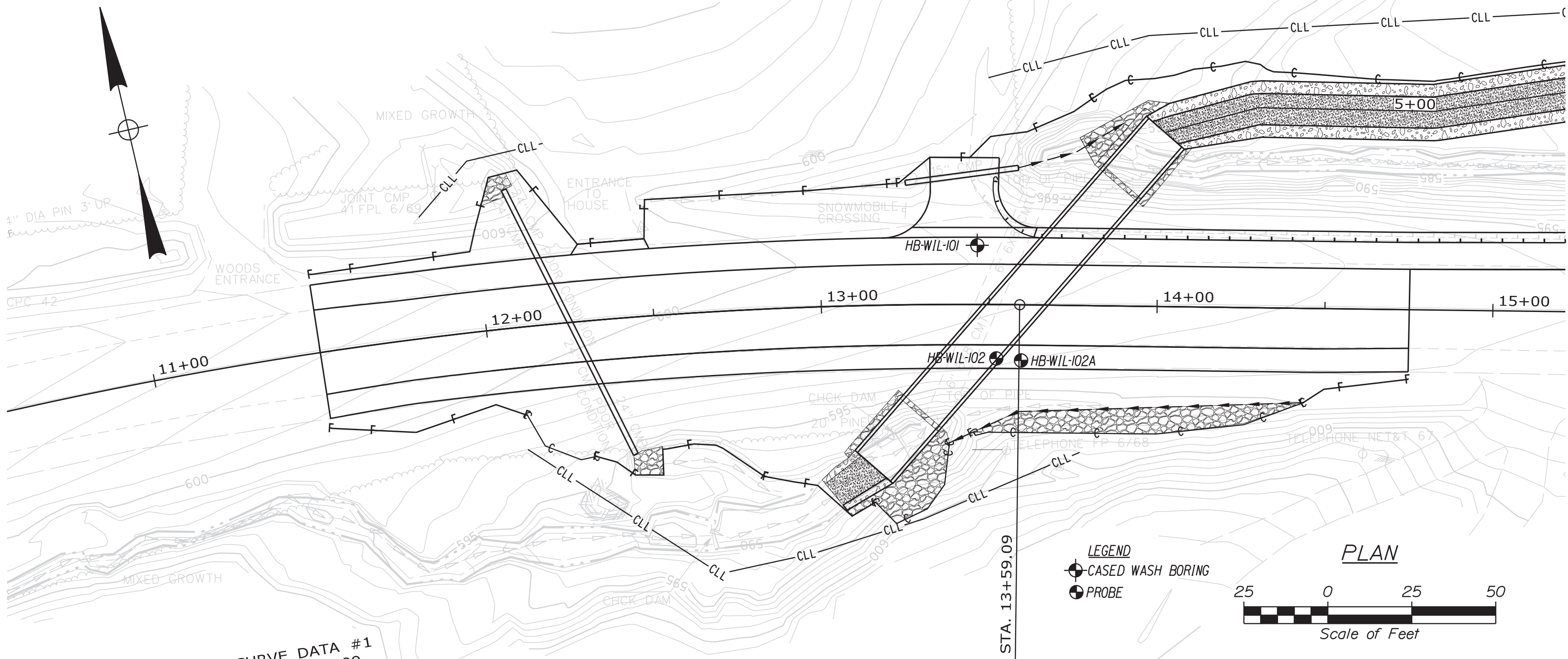
MDOT LANDSCAPE ARCHITECT SHOULD
BE CONTACTED FOR FINAL APPROVAL
OF LANDSCAPE LAYOUT.



STATE OF MAINE DEPARTMENT OF TRANSPORTATION										
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	WIN									
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	HIGHWAY PLANS									

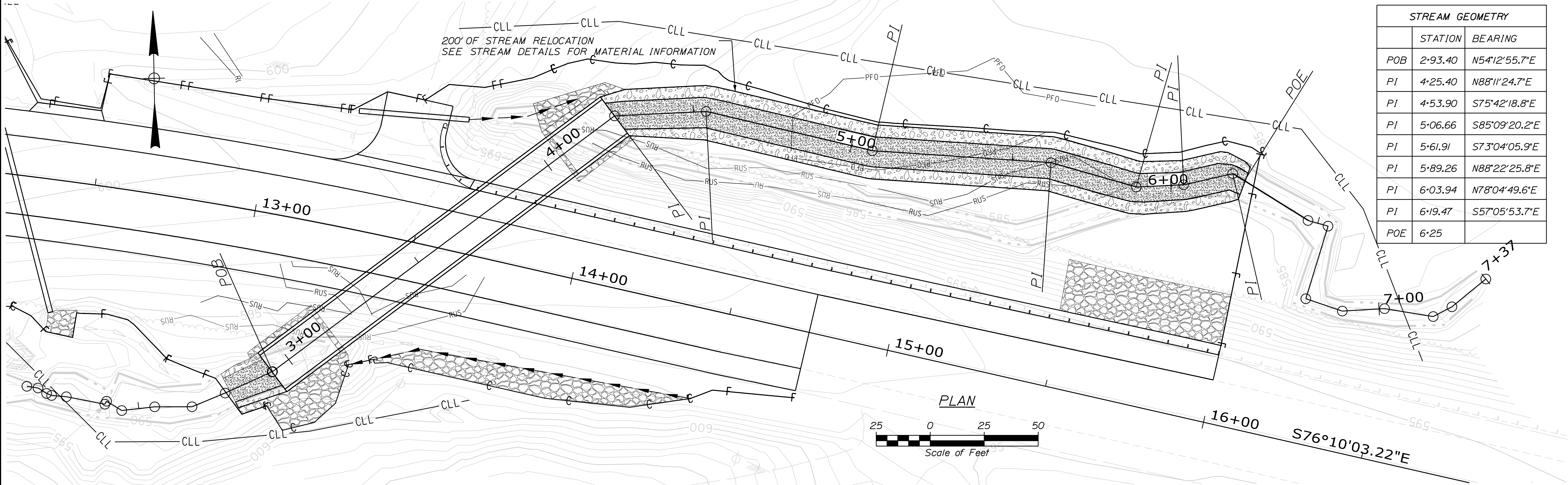
WILTON WILTON STREAM RELOCATION Proposed Plant Materials	DESIGN-DETAILED		Kent Cooper							
	CHECKED-REVIEWED									
	DESIGN2-DETAILED2									
	DESIGN3-DETAILED3									
	REVISIONS 1									
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	REVISIONS 4									
	FIELD CHANGES									

SHEET NUMBER
7
OF 23

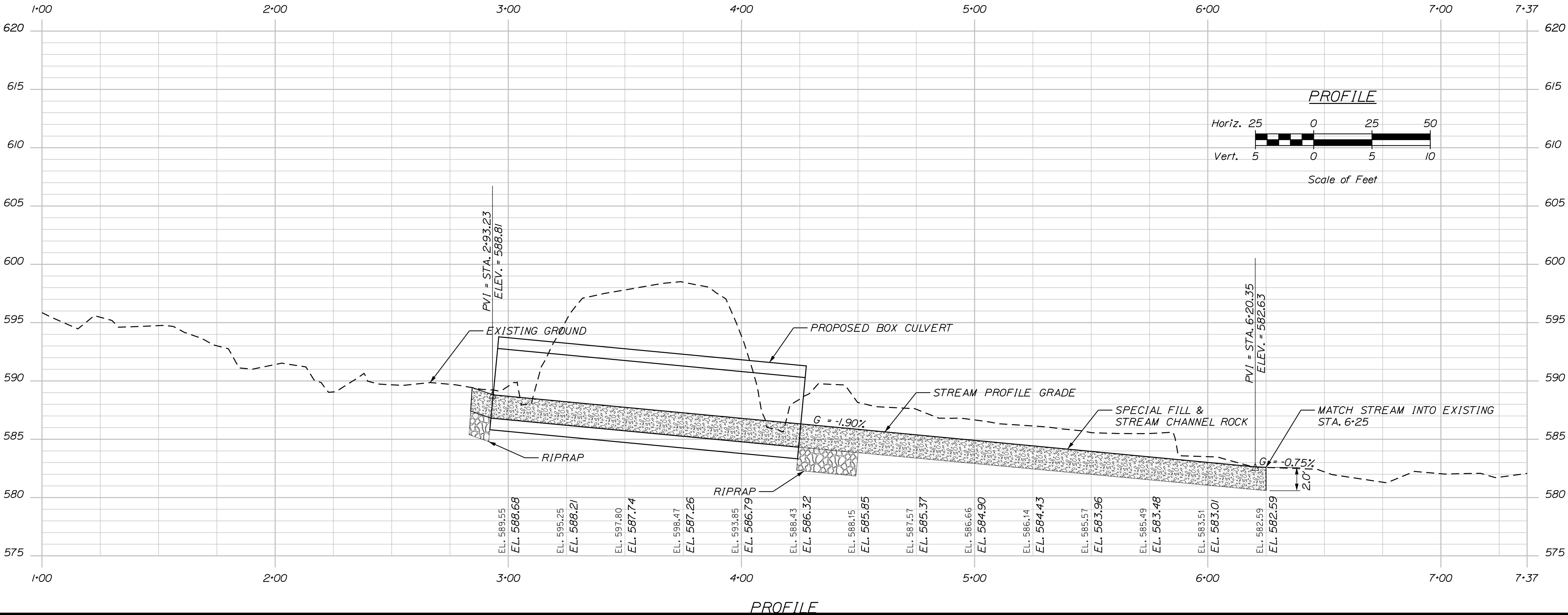


Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

Maine Department of Transportation				Project: Large Culvert Replacement on U.S. Route 2		Boring No.: HB-WIL-101	
Soil/Bore Exploration Log				Location: Wilton, Maine		WIN: 23799.00	
US CUSTOMARY UNITS							
Driller: MairDOT		Elevation (ft.): 598.8		Auger ID/OD: 5" Solid Stem			
Operator: Daggett/Hiles		Datum: NAVD88		Sampler: Standard Split Spoon			
Logged By: C. Russell		Rig Type: CME 45C		Hammer Wt./Fall: 140lb/30"			
Date Start/Finish: 8/27/2018: 08:30-10:50		Drilling Method: Coiled Wash Boring		Core Barrels: N/A			
Boring Location: 1346.4, 17.6 ft Lx		Casing ID/OD: NW-3"		Water Level#: 9.0 ft bgs.			
Hammer Efficiency Factor: 0.928		Hammer Type: Automatic		Anvil & Cathode: C			
Definitions:		R = Rock Core Sample		S _u = Peak/Retained Field Vane Undrained Shear Strength (psf)		W ₆₀ = Weight of 140lb Hammer	
S = Split Spoon Sample		S _u = Split Stem Rupture		S _u (log) = Log Vane Undrained Shear Strength (psf)		W ₆₀ = Weight of 140lb Hammer	
B = Bucket Sample off Auger Flange		S _u = Split Stem Rupture		q _u = Unclassified Compressive Strength (psf)		W ₆₀ = Weight of 140lb Hammer	
U = Thin Wall Tube Sample		N ₆₀ = Blow Count (blows/ft)		N ₆₀ = Blow Count (blows/ft)		W ₆₀ = Weight of 140lb Hammer	
M = Unsuccessful Thin Wall Tube Sample Attempt		R _q = Weight of 140lb Hammer		R _q = Weight of 140lb Hammer		W ₆₀ = Weight of 140lb Hammer	
F = Field Vane Shear Test		R _q = Weight of 140lb Hammer		R _q = Weight of 140lb Hammer		W ₆₀ = Weight of 140lb Hammer	
W = Unsuccessful Field Vane Shear Test Attempt		R _q = Weight of 140lb Hammer		R _q = Weight of 140lb Hammer		W ₆₀ = Weight of 140lb Hammer	
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STREAM GEOMETRY		
	STATION	BEARING
POB	2+93.40	N54°12'55.7"E
PI	4+25.40	N88°11'24.7"E
PI	4+53.90	S75°42'18.8"E
PI	5+06.66	S85°09'20.2"E
PI	5+61.91	S73°04'05.9"E
PI	5+89.26	N88°22'25.8"E
PI	6+03.94	N78°04'49.6"E
PI	6+19.47	S57°05'53.7"E
POE	6+25	



STATE OF MAINE
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023799.00

WIN
23799.00

HIGHWAY PLANS

WILTON
U.S. ROUTE 2

STREAM PLAN/PROFILE

SHEET NUMBER

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OF 23

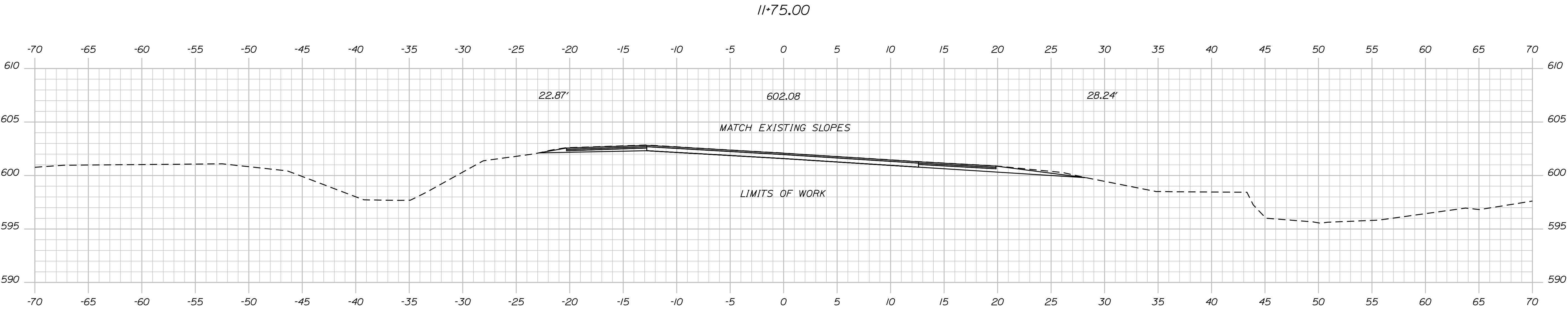
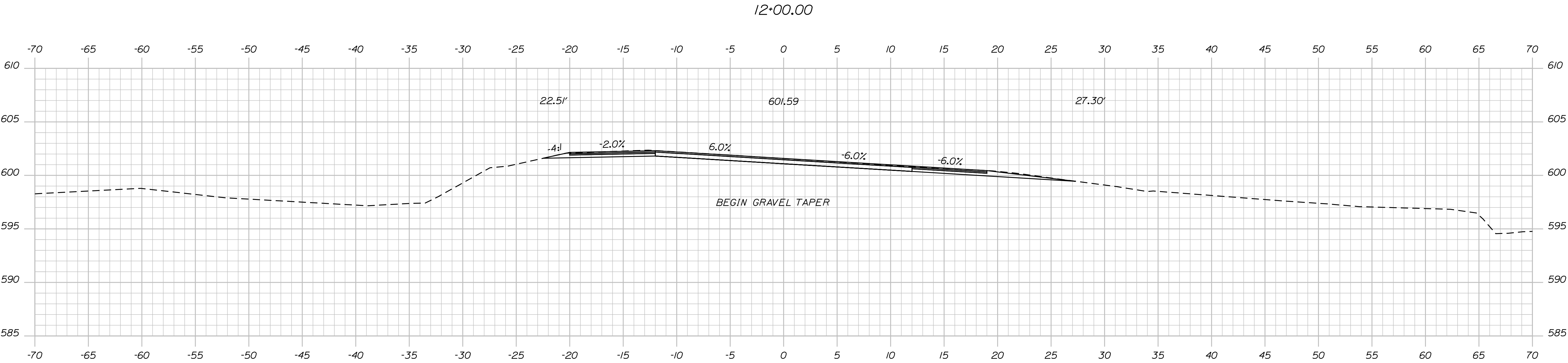
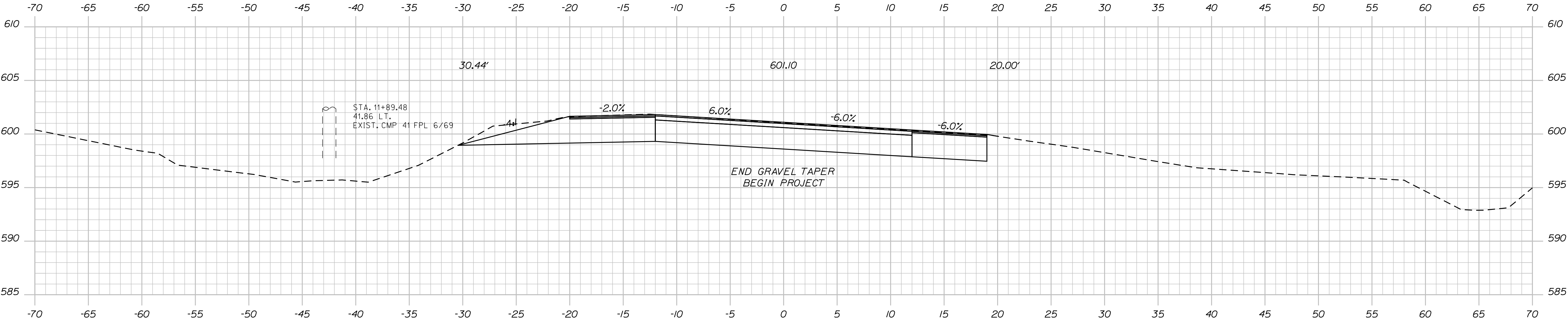
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CHECKED-REVIEWED		SIGNATURE
DESIGN-DETAILED C. RUSSELL	JUNE 2019	P.E. NUMBER
DESIGN-DETAILED		DATE
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

Date:12/18/2020

Username: common

Division: HIGHWAY

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WIN	23799.00
HIGHWAY PLANS	

PROJ. MANAGER J. G. WHITTINGTON		DATE	DEC. 2020
CHECKED-REVIEWED L. KANDIKO		SIGNATURE	
DESIGNED-DETAILED C. RUSSELL		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2		DATE	
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WILTON	
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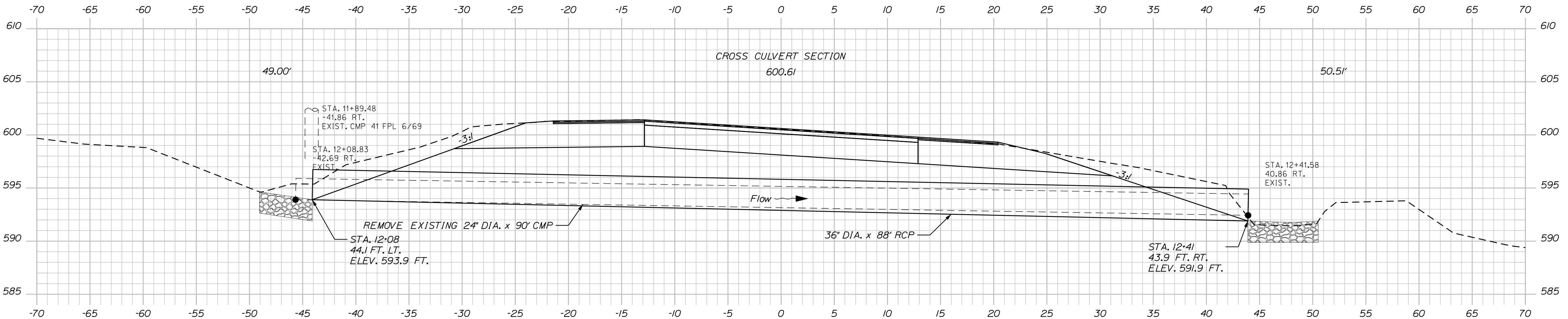
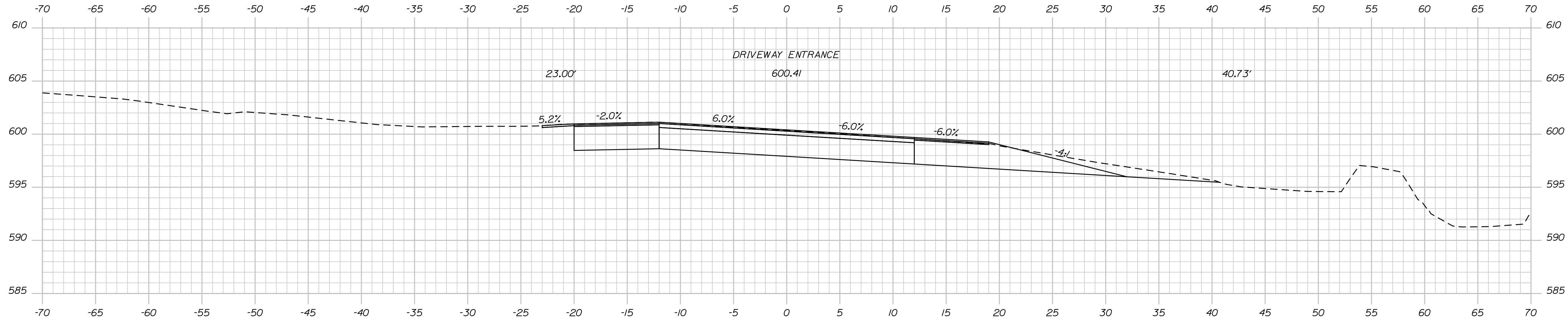
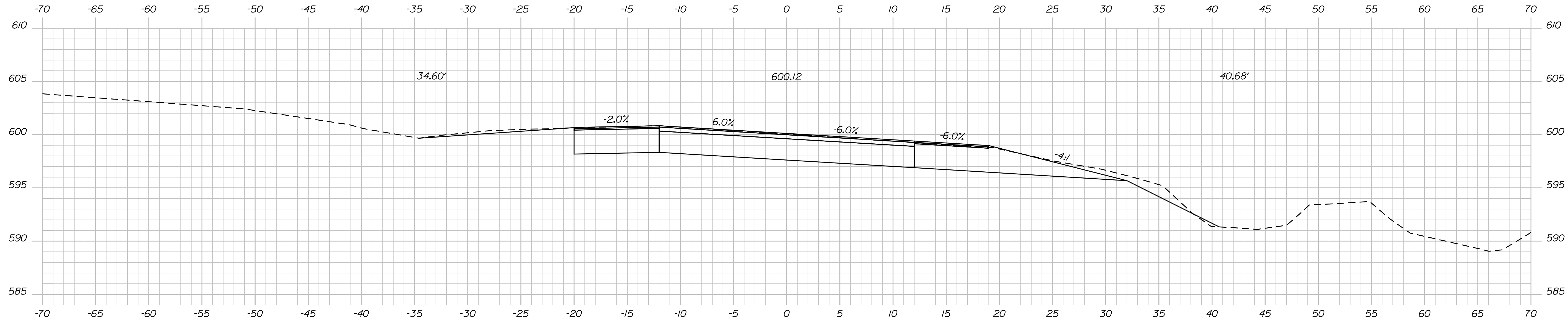
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	WIN	23799.00
HIGHWAY PLANS		

PROJ. MANAGER	DATE	BY	DATE
J. G. WHITTINGTON	DEC. 2020	T. WHITE	JUNE 2019
CHECKED-REVIEWED	L. KANDIKO		
DESIGNED-DETAILED	C. RUSSELL		
DESIGNED-DETAILED	T. WHITE		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WILTON U.S. ROUTE 2	CROSS SECTIONS

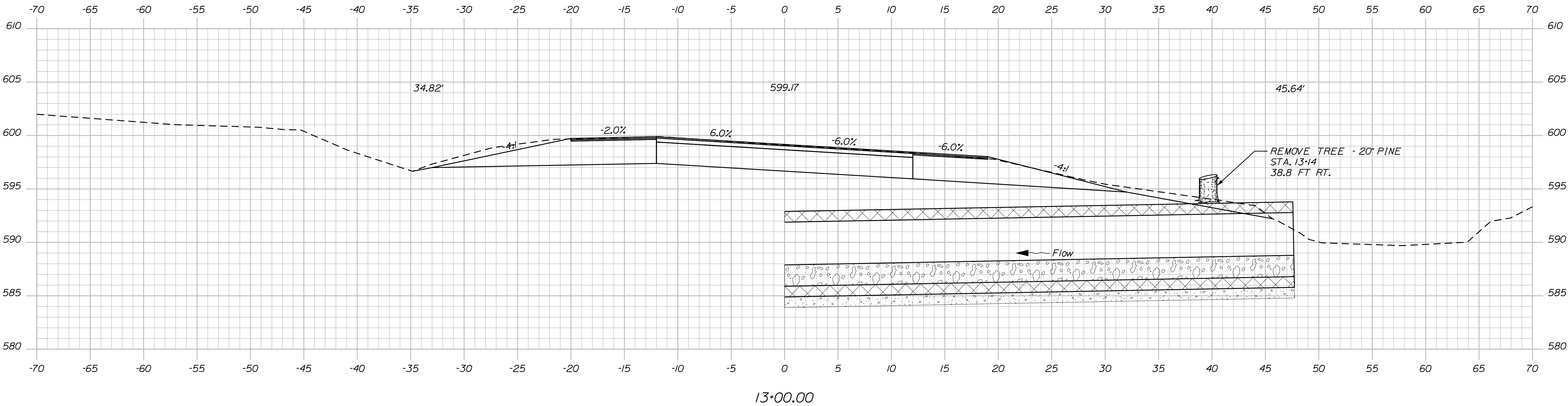
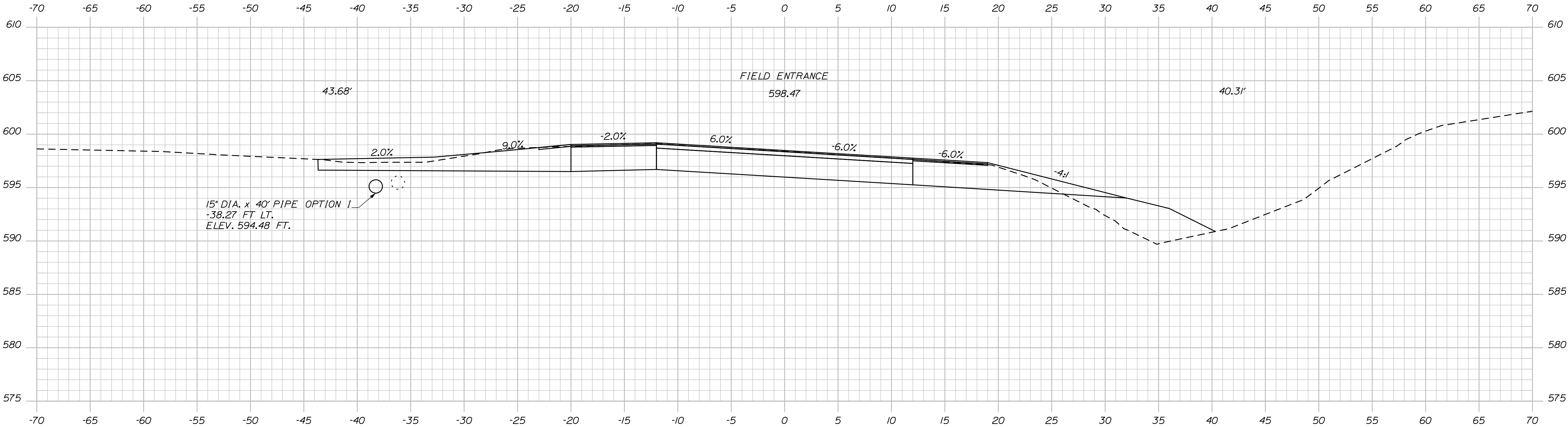
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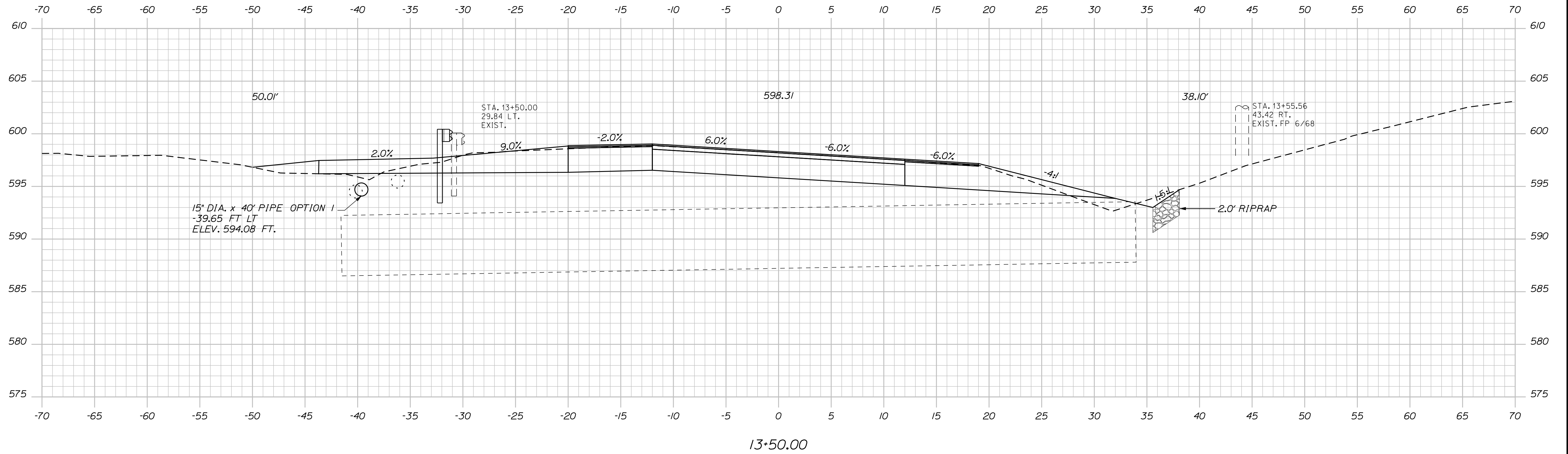
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DEPARTMENT OF TRANSPORTATION	
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WIN	HIGHWAY PLANS
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CHECKED-REVIEWED L. KANDIKO	DEC 2020	SIGNATURE
DESIGNED-DETAILED C. RUSSELL	JUNE 2018	P.E. NUMBER
DESIGNS DETAILED		DATE
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

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14

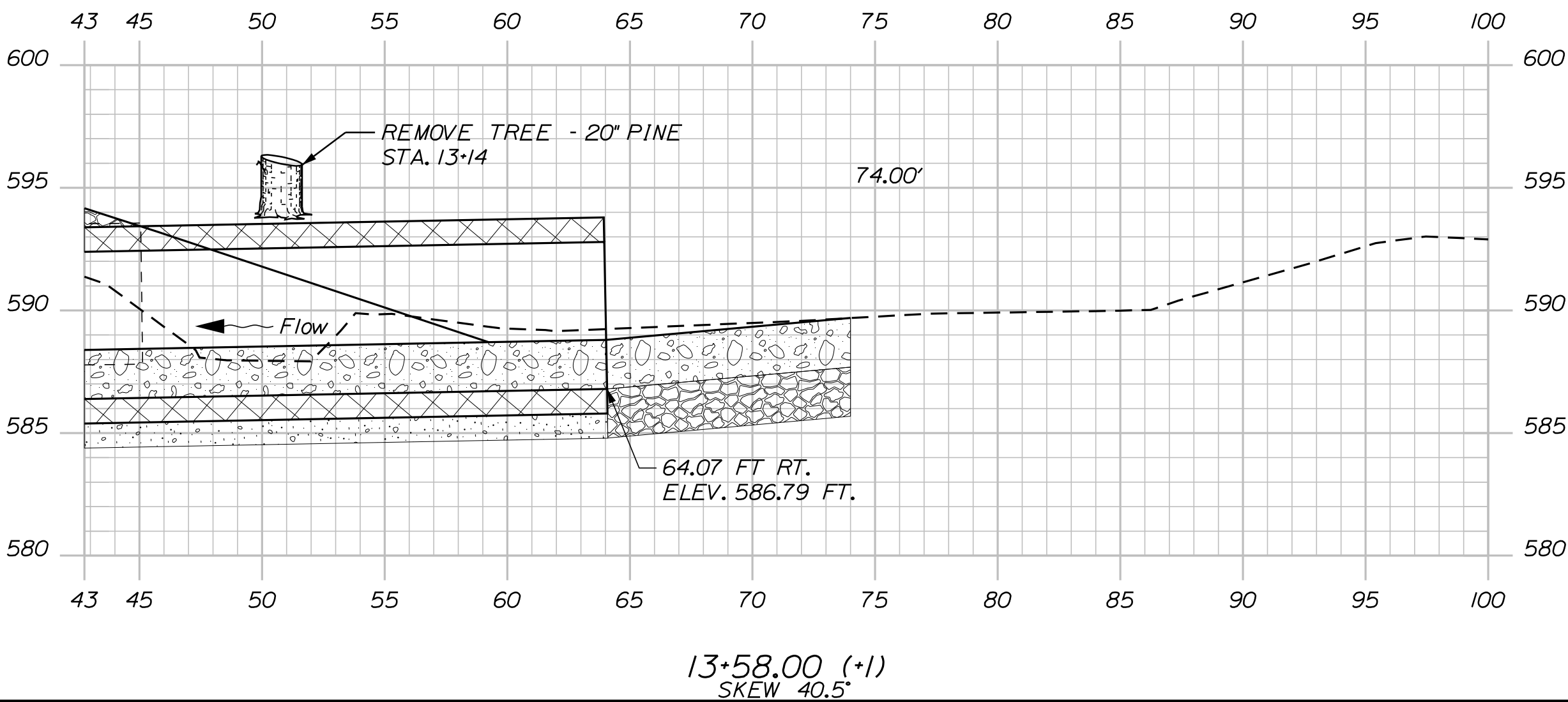
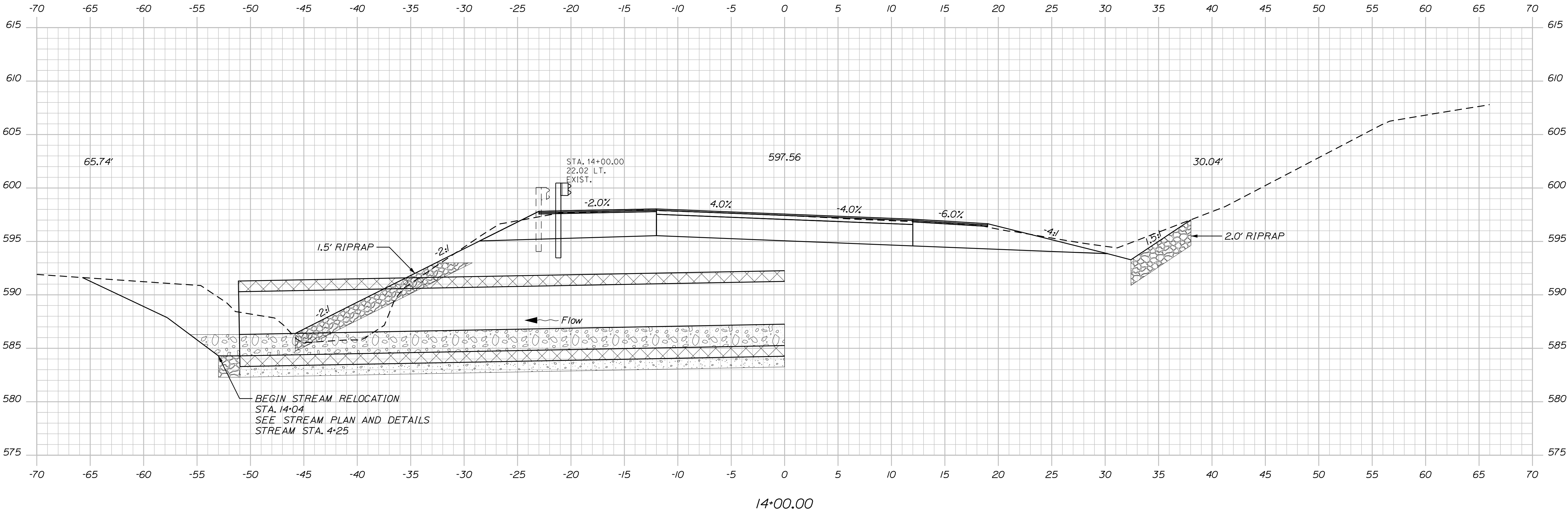
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HIGHWAY PLANS	

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DATE	DEC 2020
BY	T. WHITE
PROJ. MANAGER	J. G. WHITTINGTON
CHECKED	L. KANDIKO
DESIGNED	C. RUSSELL
REVISIONS	1
REVISIONS	2
REVISIONS	3
REVISIONS	4
FIELD CHANGES	

WILTON	
U.S. ROUTE 2	
CROSS SECTIONS	

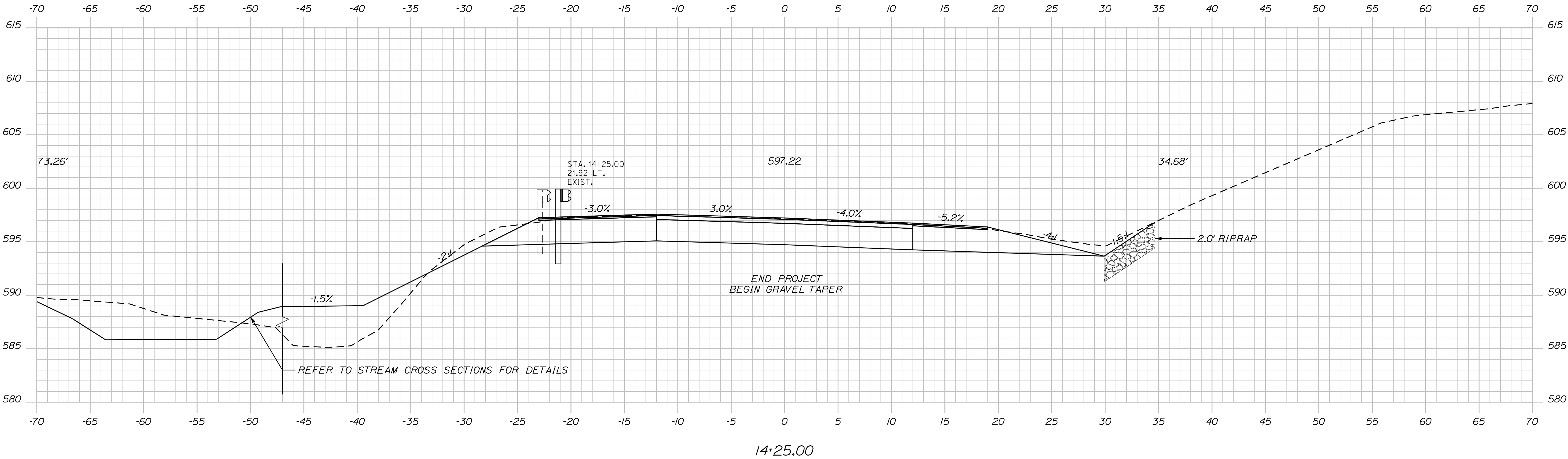
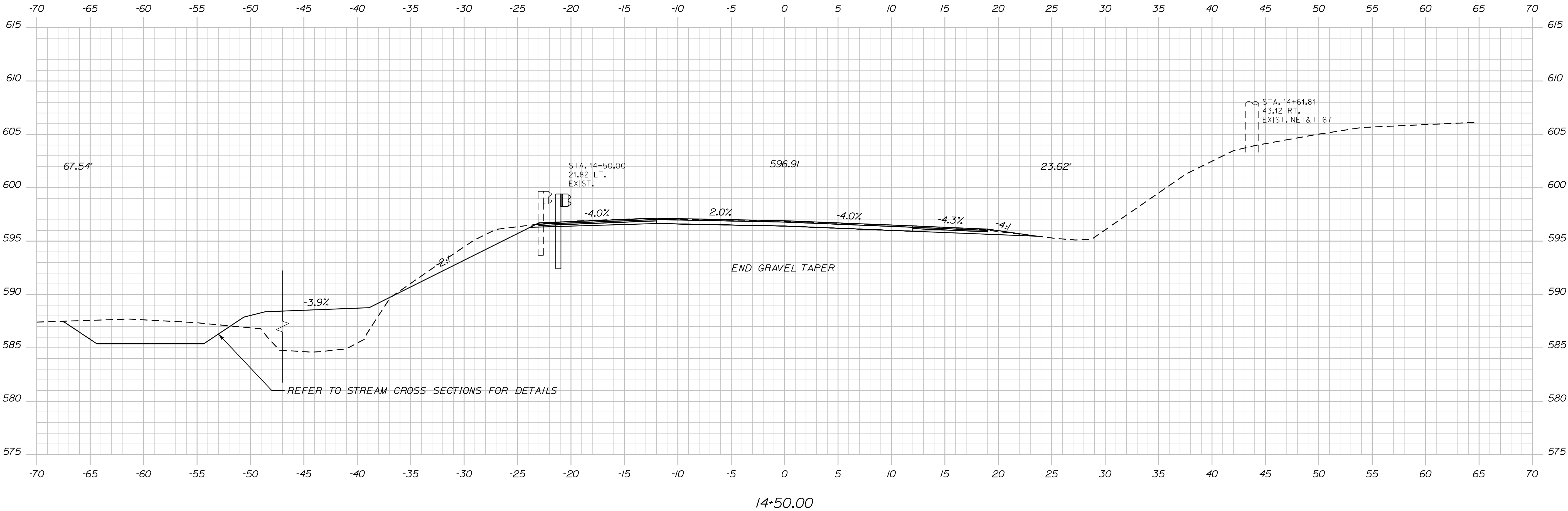
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PROJ. MANAGER J. G. WHITTINGTON	BY	DATE
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DESIGNED-DETAILED C. RUSSELL	T. WHITE	JUNE 2018
SIGNATURE		
P.E. NUMBER		
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REVISIONS 1		
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REVISIONS 4		
FIELD CHANGES		

WILTON	
U.S. ROUTE 2	
CROSS SECTIONS	

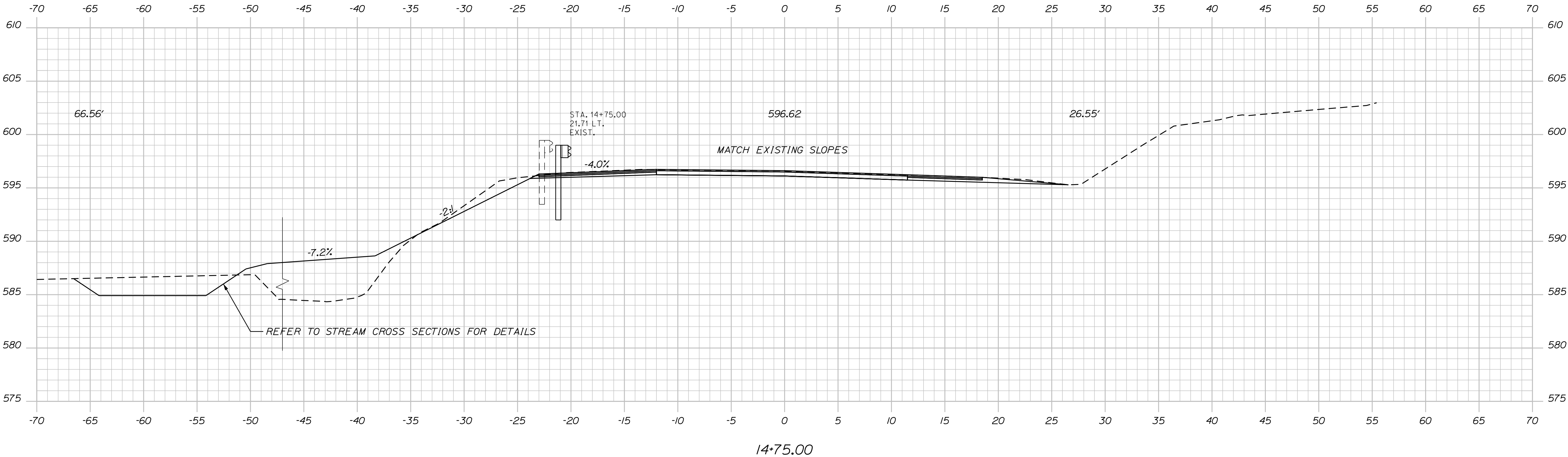
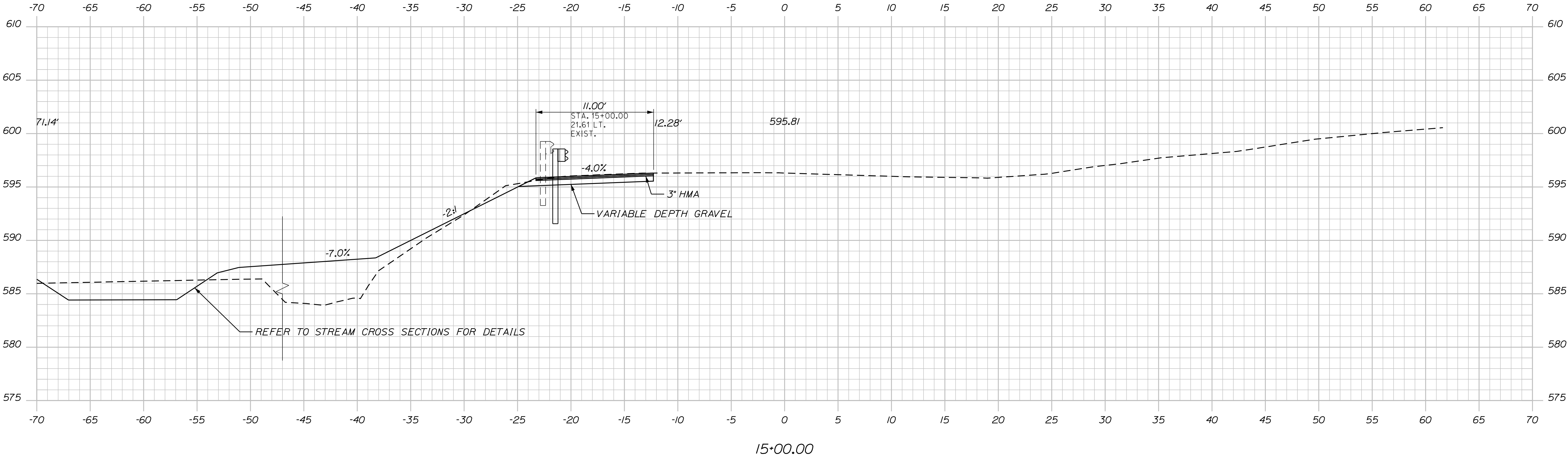
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Date:12/18/2020

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Division: HIGHWAY

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	WIN	23799.00

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DESIGN-DETAILED L. KANDIKO	CHECKED-REVIEWED C. RUSSELL	T. WHITE	P.E. NUMBER
DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3
FIELD CHANGES	REVISIONS 4	DATE	DATE

WILTON U.S. ROUTE 2	CROSS SECTIONS

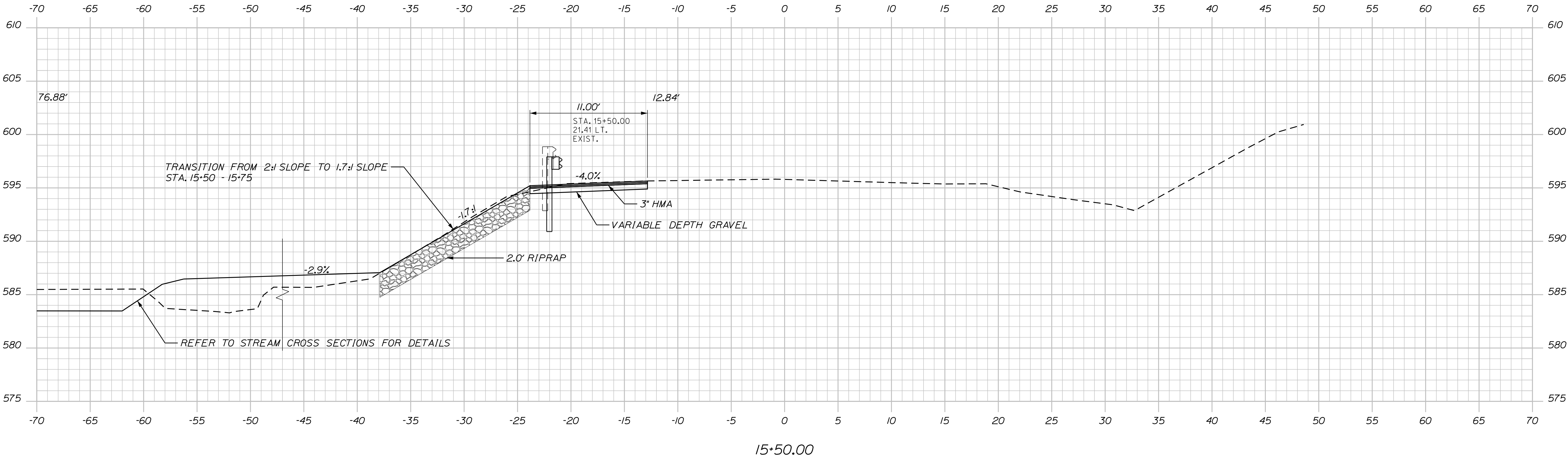
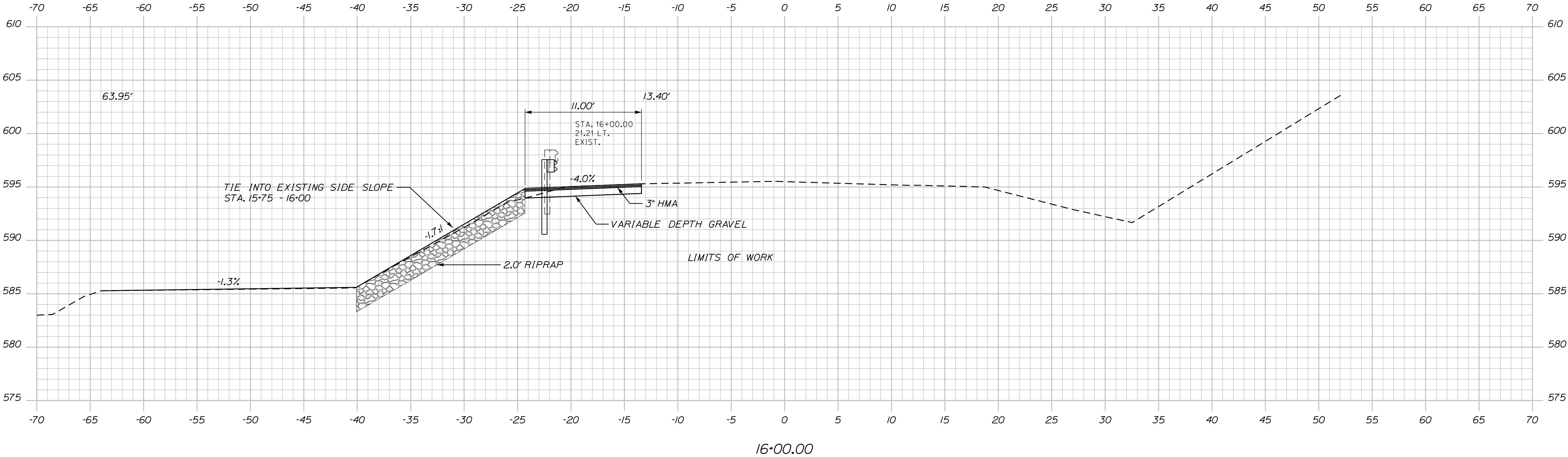
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OF 23	

Date:12/18/2020

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Division: HIGHWAY

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Sta. 15+50.00 to Sta. 16+00.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
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	WIN	23799.00
	HIGHWAY PLANS	

PROJ. MANAGER J. G. WHITTINGTON	BY	DATE
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DESIGNED-DETAILED C. RUSSELL	T. WHITE	JUNE 2018
DESIGNED-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		
SIGNATURE		P.E. NUMBER
DATE		

WILTON U.S. ROUTE 2	CROSS SECTIONS

SHEET NUMBER
18
OF 23

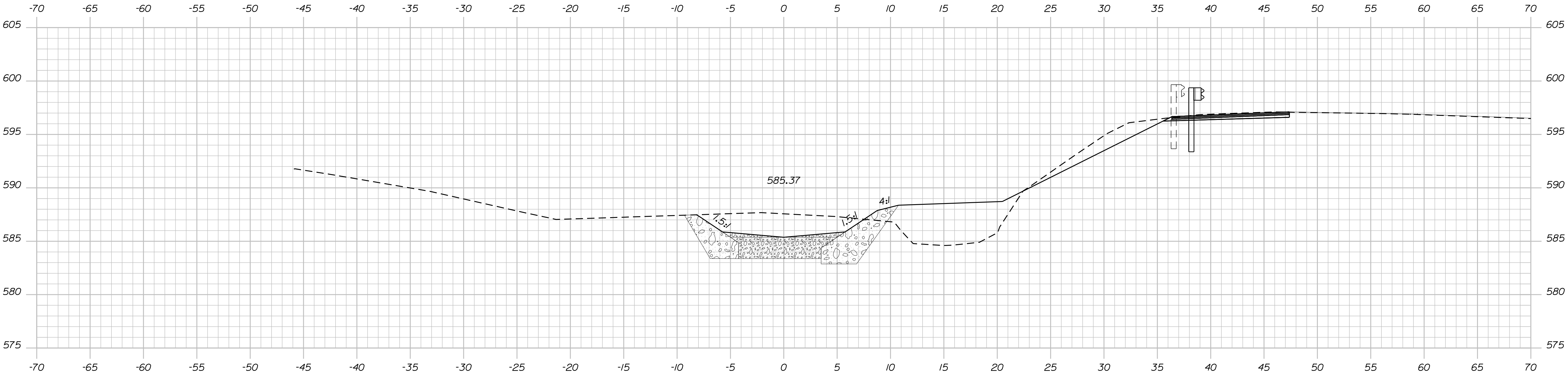
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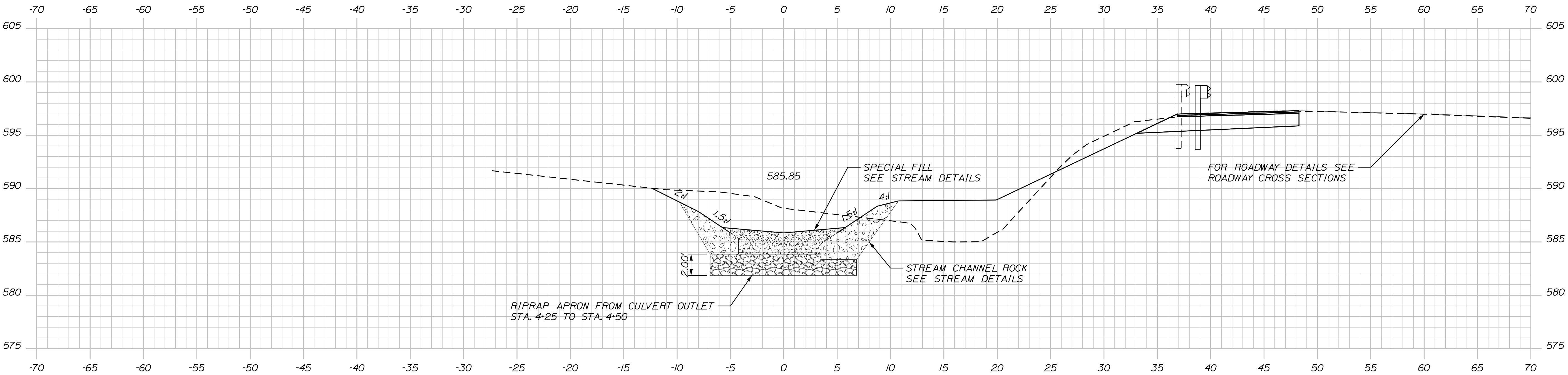
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RELOCATED STREAM CROSS SECTIONS



4+75.00



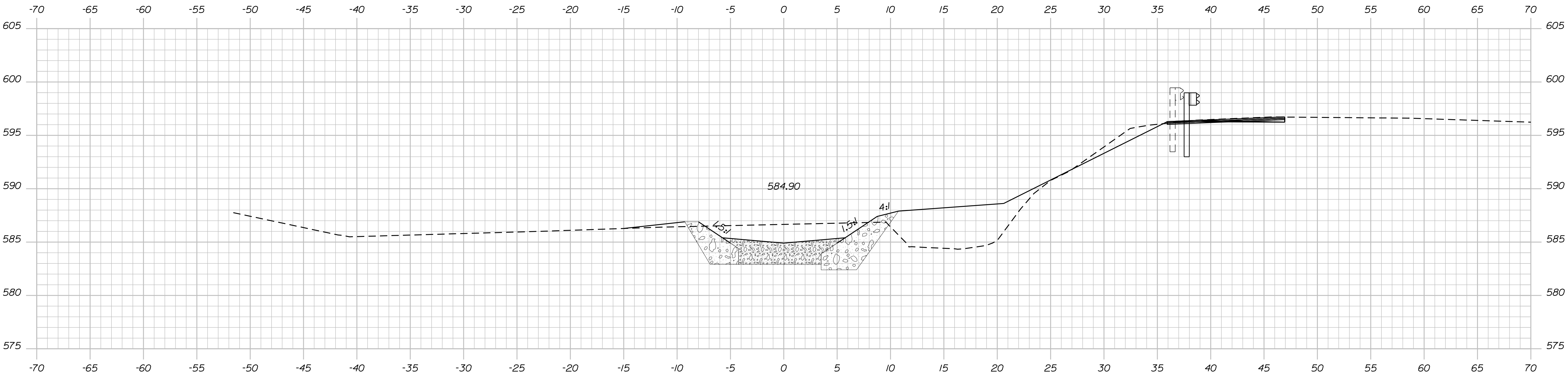
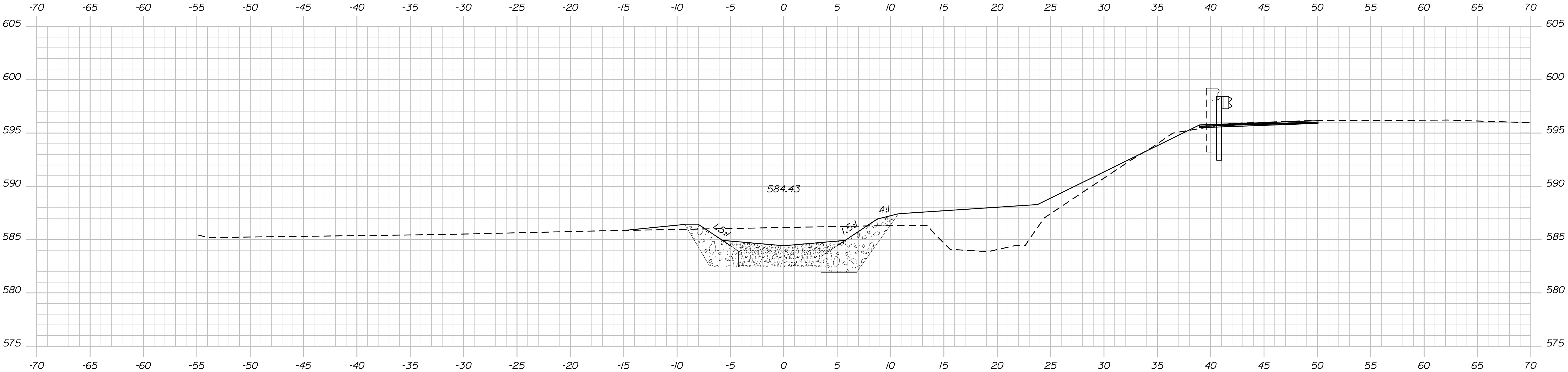
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DEPARTMENT OF TRANSPORTATION	
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WIN	HIGHWAY PLANS
23799.00	

PROJ. MANAGER J. G. WHITTINGTON	BY	DATE
CHECKED-REVIEWED L. KANDIKO		DEC 2020
DESIGNED-DETAILED C. RUSSELL	T. WHITE	JUNE 2019
DESIGNED-DETAILED		
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REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WILTON	
U.S. ROUTE 2	
STREAM CROSS SECTIONS	

SHEET NUMBER	
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OF 23	



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
023799.00	
WIN	23799.00
HIGHWAY PLANS	

PROJ. MANAGER J. G. WHITTINGTON	BY	DATE
CHECKED-REVIEWED L. KANDIKO		DEC 2020
DESIGN-DETAILED C. RUSSELL	T. WHITE	JUNE 2019
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WILTON	
U.S. ROUTE 2	
STREAM CROSS SECTIONS	

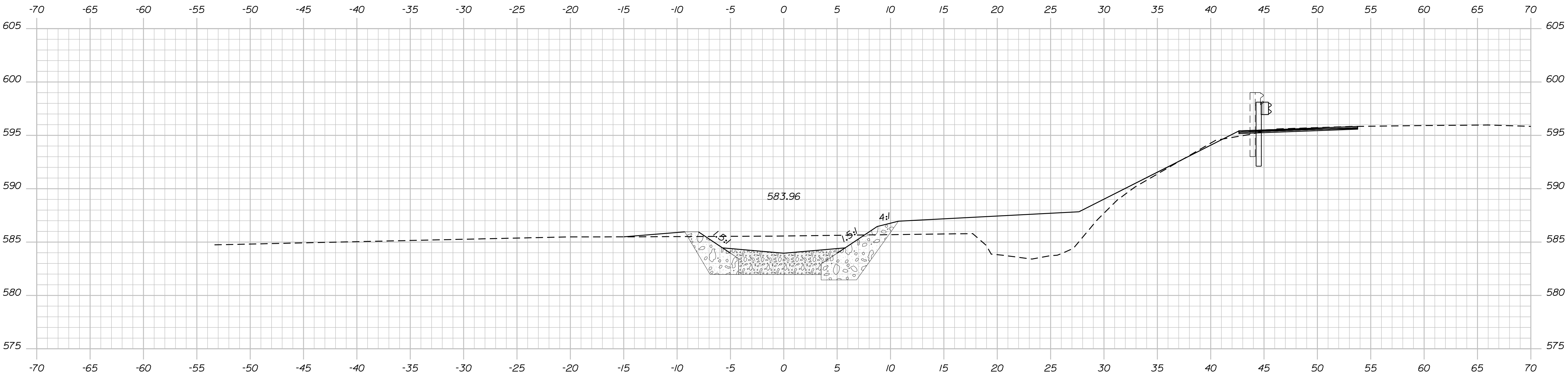
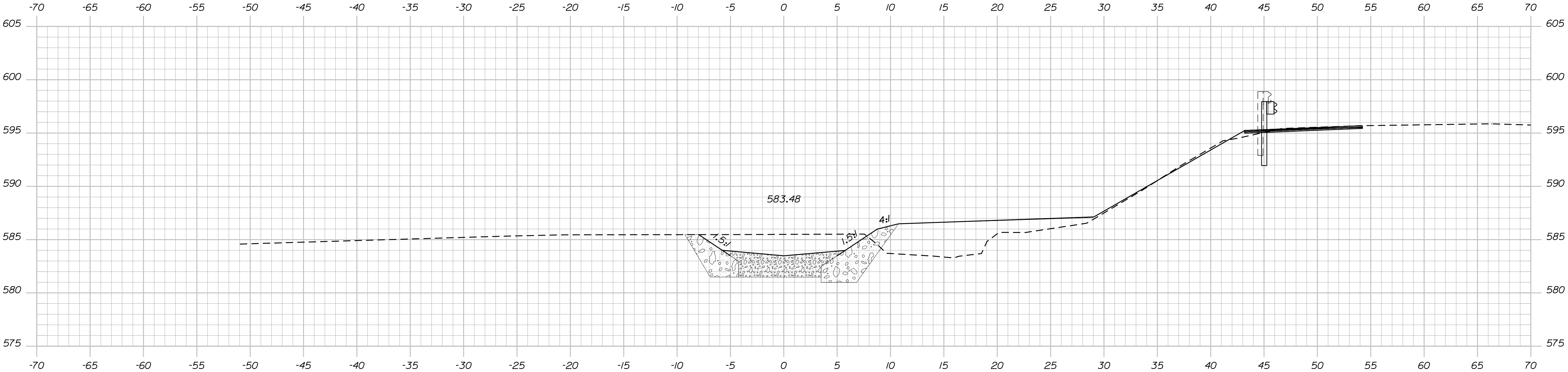
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Date:12/18/2020

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Division: HIGHWAY

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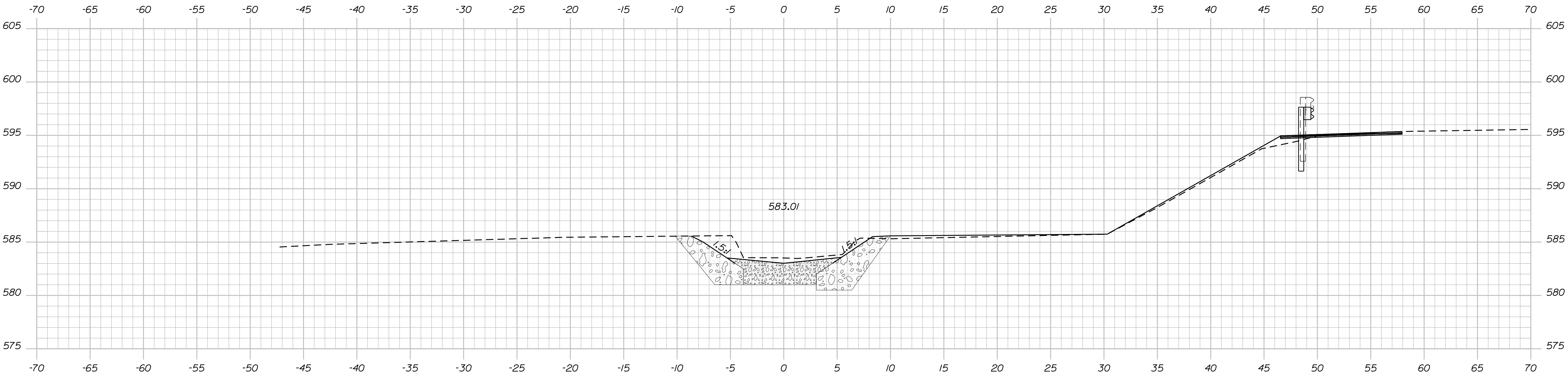
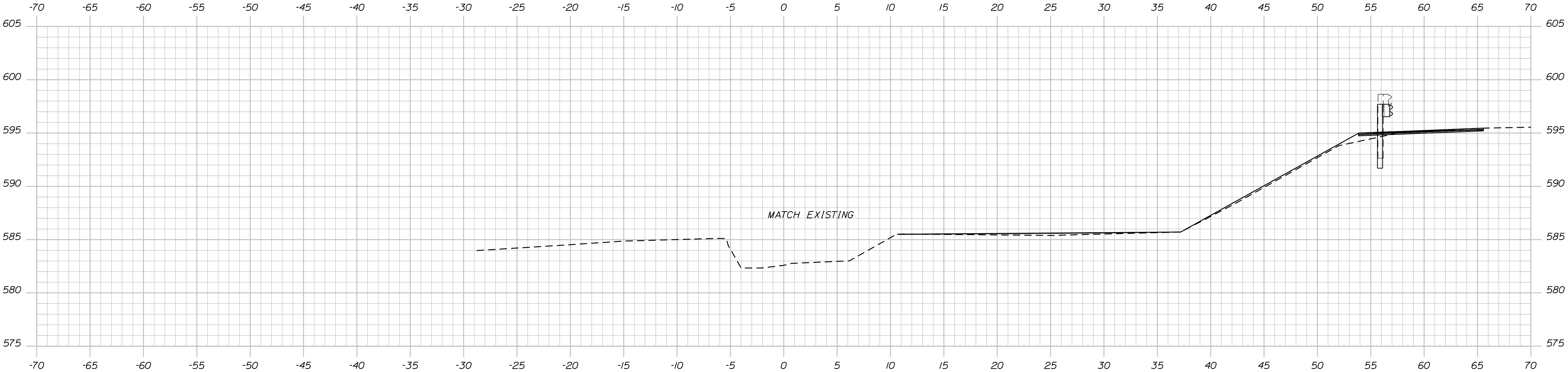


STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
023799.00	
WIN	HIGHWAY PLANS
23799.00	

PROJ. MANAGER J. G. WHITTINGTON	BY	DATE
DESIGN-DETAILED L. KANDIKO		DEC. 2020
CHECKED-REVIEWED		
DESIGNED-DETAILED C. RUSSELL	T. WHITE	JUNE 2018
SIGNATURE		
P.E. NUMBER		
DATE		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WILTON	
U.S. ROUTE 2	
STREAM CROSS SECTIONS	

SHEET NUMBER
21
OF 23



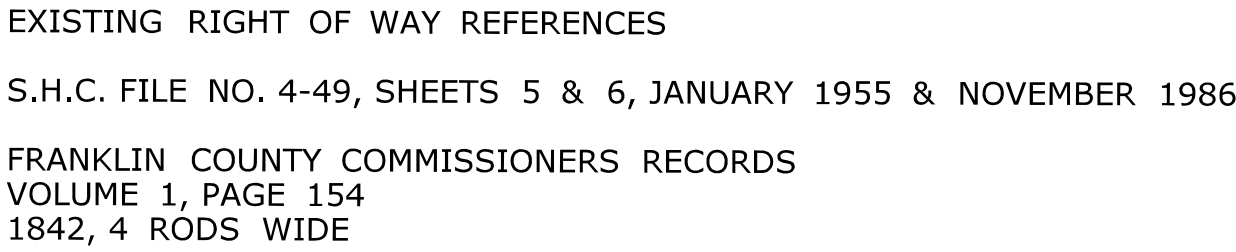
STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
023799.00	
WIN	HIGHWAY PLANS
23799.00	

PROJ. MANAGER J. G. WHITTINGTON	BY	DATE
CHECKED-REVIEWED L. KANDIKO		DEC 2020
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REVISIONS 3		
REVISIONS 4		
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WILTON	
U.S. ROUTE 2	
STREAM CROSS SECTIONS	

SHEET NUMBER
22
OF 23

Filename: ... \HIGHWAY\MSTA\023_RWPLAN1.dgn



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