

PROJECT ID: LACRO20-SMST

COUNTY: LA CROSSE

ORDER OF SHEETS

Section No.	Title
1	Title
2	Typical Sections and Details
3	Estimate of Quantities
3	Miscellaneous Quantities
4	Right of Way Plat
5	Plan and Profile
6	Standard Detail Drawings
7	Sign Plates
8	Structure Plans
9	Computer Earthwork Data
9	Cross Sections

TOTAL SHEETS =

LA CROSSE COUNTY HIGHWAY DEPARTMENT

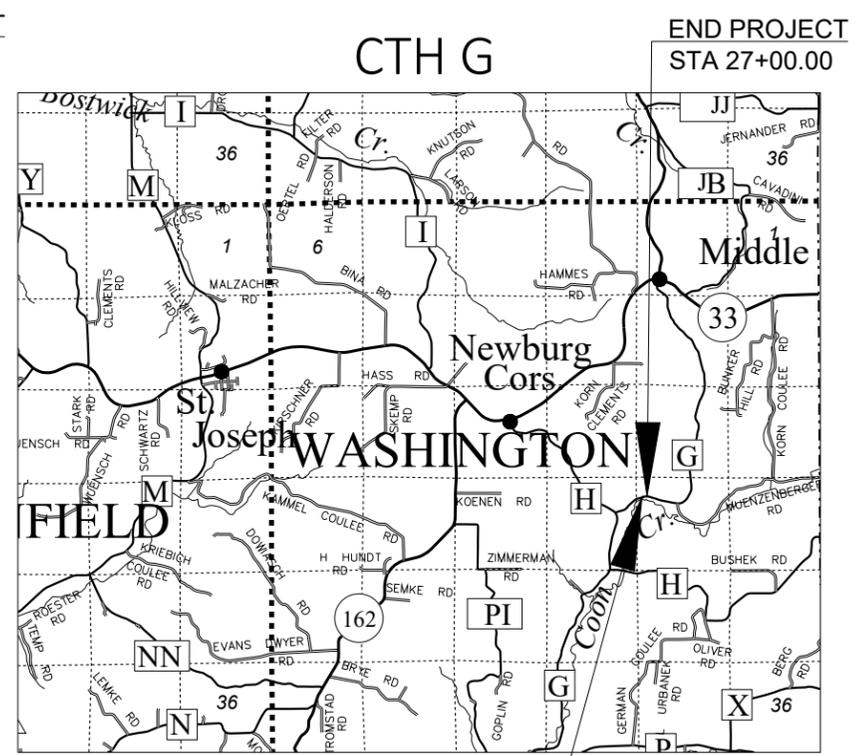
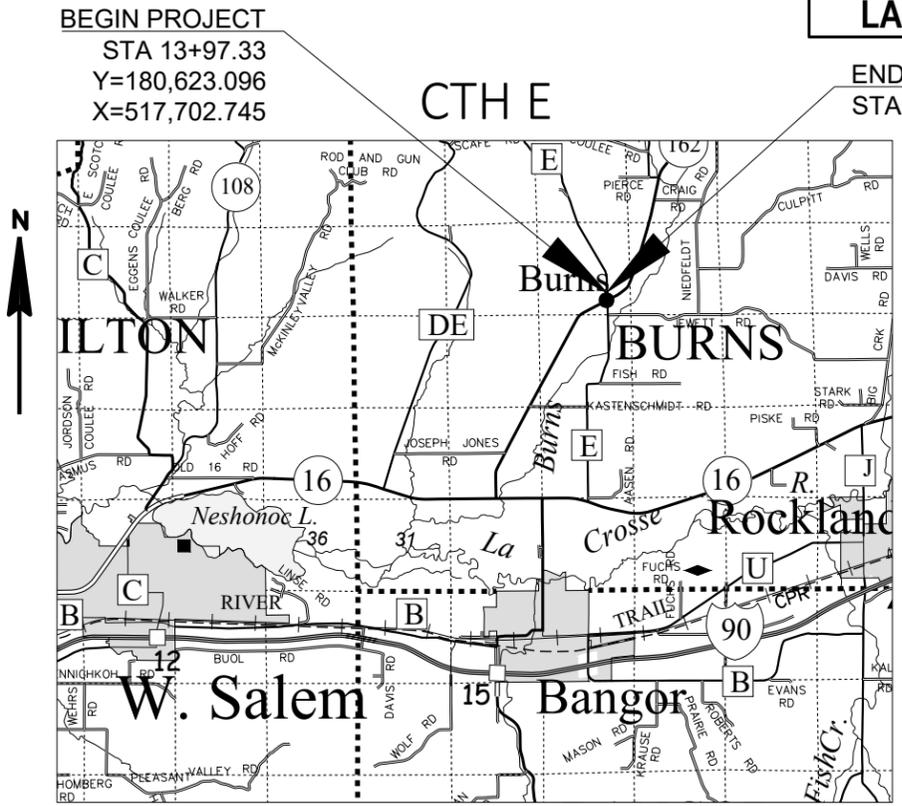
PLAN OF PROPOSED IMPROVEMENT

CULVERT REPLACEMENT

LA CROSSE COUNTY

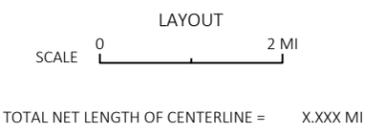
PROJECT NUMBER
LACRO20-SMST

ACCEPTED FOR
LA CROSSE COUNTY
Date _____ County Highway Commissioner _____



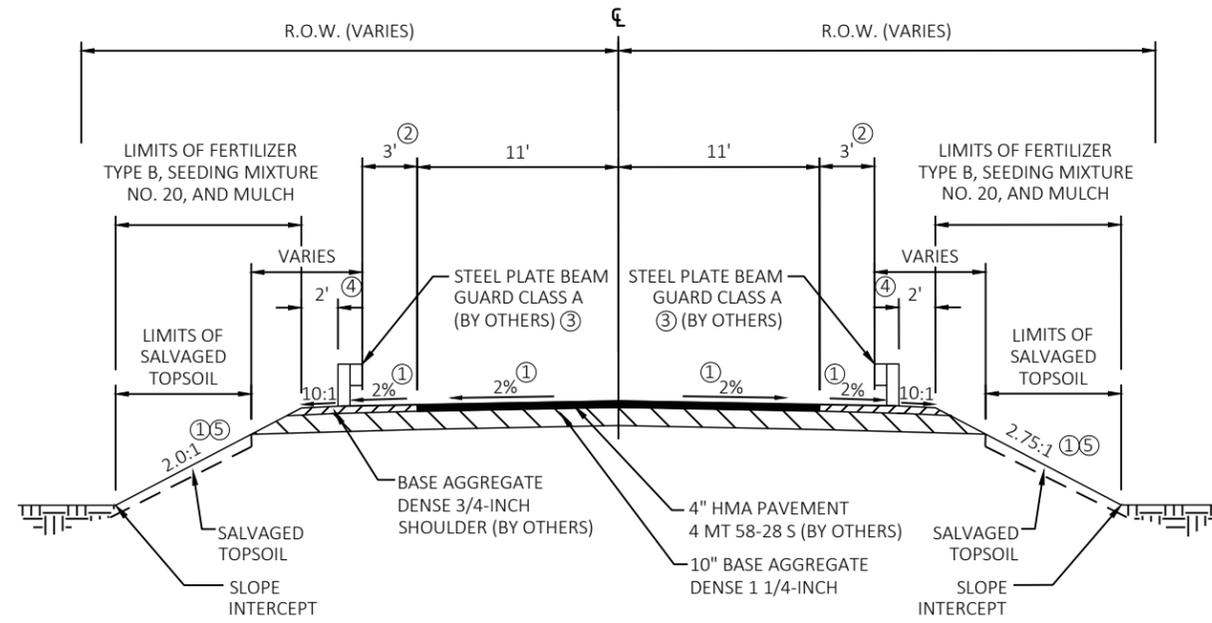
CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	
EXISTING RIGHT OF WAY		GRADE ELEVATION	
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	
EXISTING CULVERT		FIBER OPTIC	
PROPOSED CULVERT (Box or Pipe)		GAS	
COMBUSTIBLE FLUIDS		SANITARY SEWER	
MARSH AREA		STORM SEWER	
WOODED OR SHRUB AREA		TELEPHONE	
		WATER	
		UTILITY PEDESTAL	
		POWER POLE	
		TELEPHONE POLE	



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), LA CROSSE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

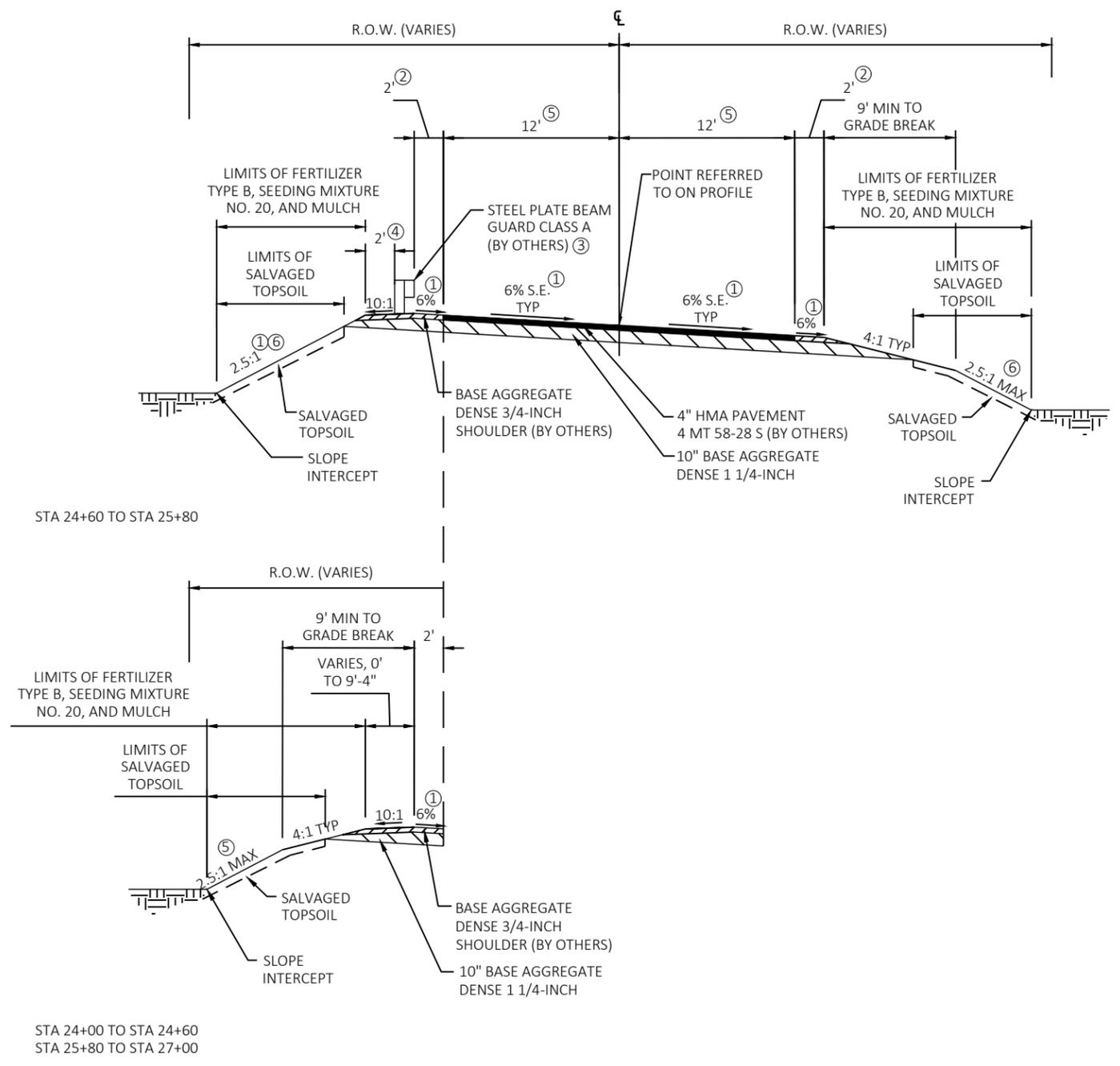
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- LEGEND**
- ASPHALTIC SURFACE
 - BASE AGGREGATE DENSE 3/4"
 - BASE AGGREGATE DENSE 1-1/4"

- ① LANE SLOPES AND FORESLOPES VARY AT LOCATION OF MATCH TO EXISTING AT BEGIN AND END OF PROJECT.
- ② WIDTH VARIES TO MATCH EXISTING AT BEGINNING AND END OF PROJECT.
- ③ GUARDRAIL NOT PRESENT AT ALL LOCATIONS. SEE PLAN AND PROFILE SHEET FOR LIMITS OF GUARDRAIL.
- ④ 2' WIDTH BEHIND GUARDRAIL TYPICAL. WIDTH OF 10:1 SLOPE AREA BOTH BEHIND GUARDRAIL AND IN FRONT OF GUARDRAIL VARIES AT EAT FLARE. SEE GRADING DETAIL.
- ⑤ FORESLOPES VARY AT LOCATION OF CULVERT, UP TO A MAXIMUM SLOPE OF 1:1. SEE GRADING DETAIL SHEET.

PROPOSED TYPICAL SECTION
 CTH E
 STA 14+55 TO STA 15+45

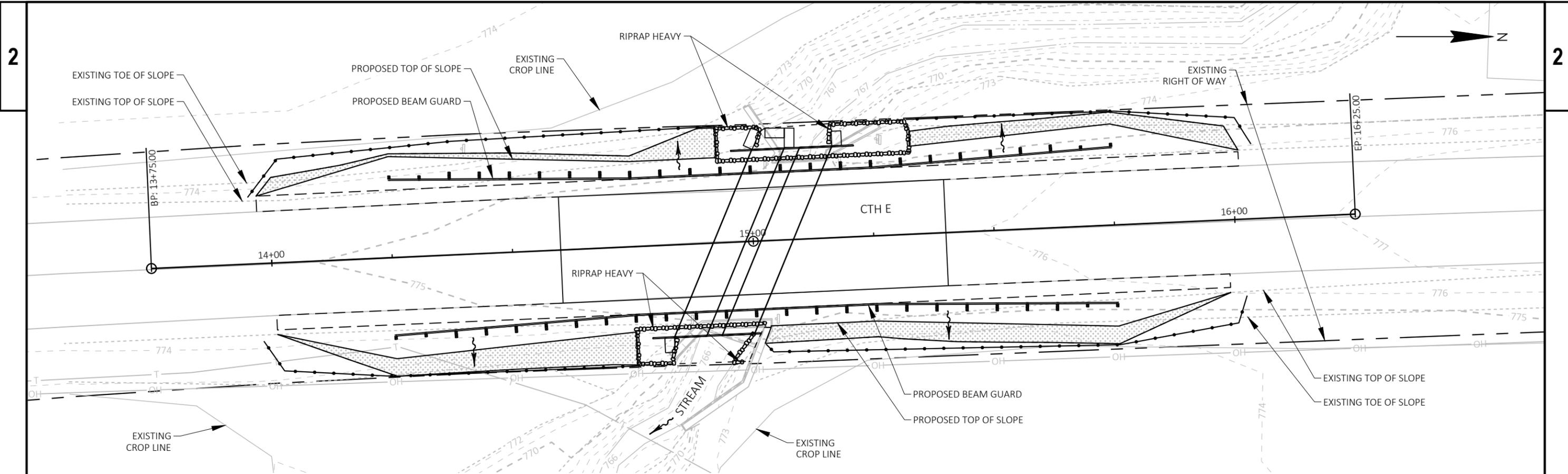


LEGEND

- ASPHALTIC SURFACE
- BASE AGGREGATE DENSE 3/4"
- BASE AGGREGATE DENSE 1-1/4"

- ① LANE SLOPE IS 6% TYPICAL SUPERELEVATION, WITH TRANSITIONS AT EITHER END OF THE PROJECT. FORESLOPES VARIES AT LOCATION OF MATCH TO EXISTING AT BEGIN AND END OF PROJECT.
- ② WIDTH VARIES TO MATCH TO EXISTING AT BEGIN AND END OF PROJECT. BASE AGGREGATE DENSE 3/4-INCH SHOULDER TO BE USED BEYOND PAVING AT DRIVEWAY TIE-IN LOCATIONS (BY OTHERS)
- ③ GUARDRAIL NOT PRESENT AT ALL LOCATIONS. SEE PLAN AND PROFILE SHEET FOR LIMITS OF GUARDRAIL. MIN. 2' GRANULAR SHOULDER AT ALL OTHER LOCATIONS.
- ④ 2' WIDTH BEHIND GUARDRAIL TYPICAL. WIDTH OF 10:1 SLOPE AREA BOTH BEHIND GUARDRAIL AND IN FRONT OF GUARDRAIL VARIES AT EAT FLARE. SEE GRADING DETAIL.
- ⑤ WIDTH AND SLOPE VARY AT LOCATION OF DRIVEWAYS, SEE GRADING DETAIL SHEET.
- ⑥ FORESLOPES VARY AT LOCATION OF CULVERT, UP TO A MAXIMUM SLOPE OF 1:1. SEE GRADING DETAIL SHEET.

PROPOSED TYPICAL SECTION
CTH G
STA 24+00 TO STA 27+00



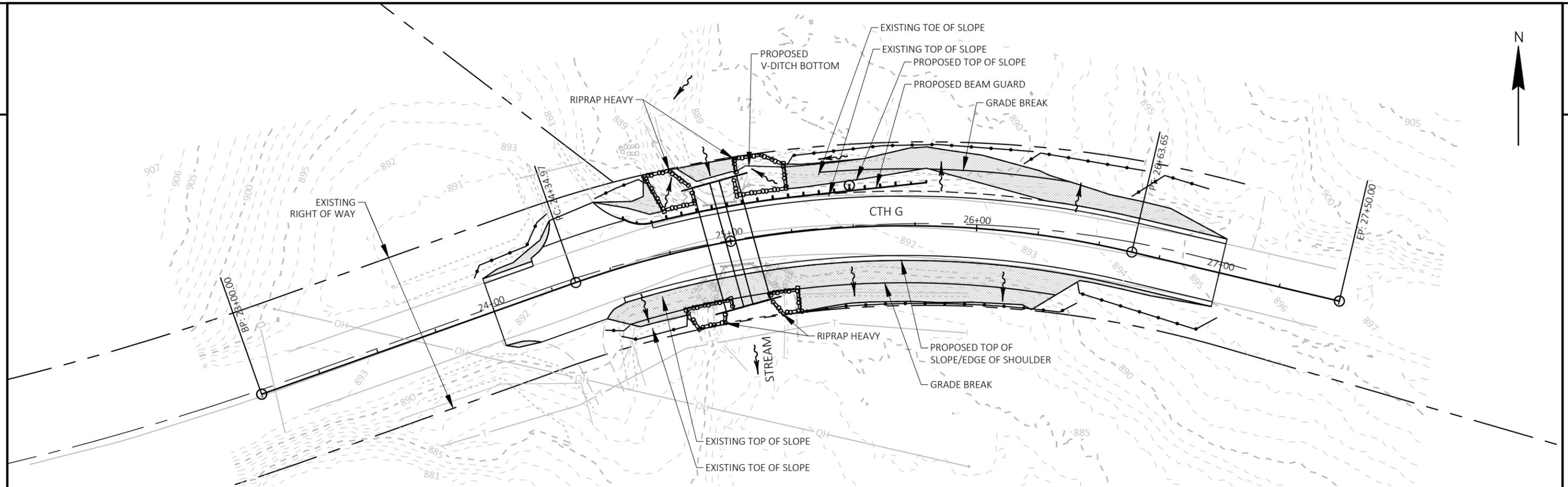
LEGEND

- SILT FENCE
- RIP RAP HEAVY
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- SEEDING NO. 20, FERTILIZER, AND MULCH

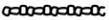
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER									
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 0.23 ACRES
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.10 ACRES



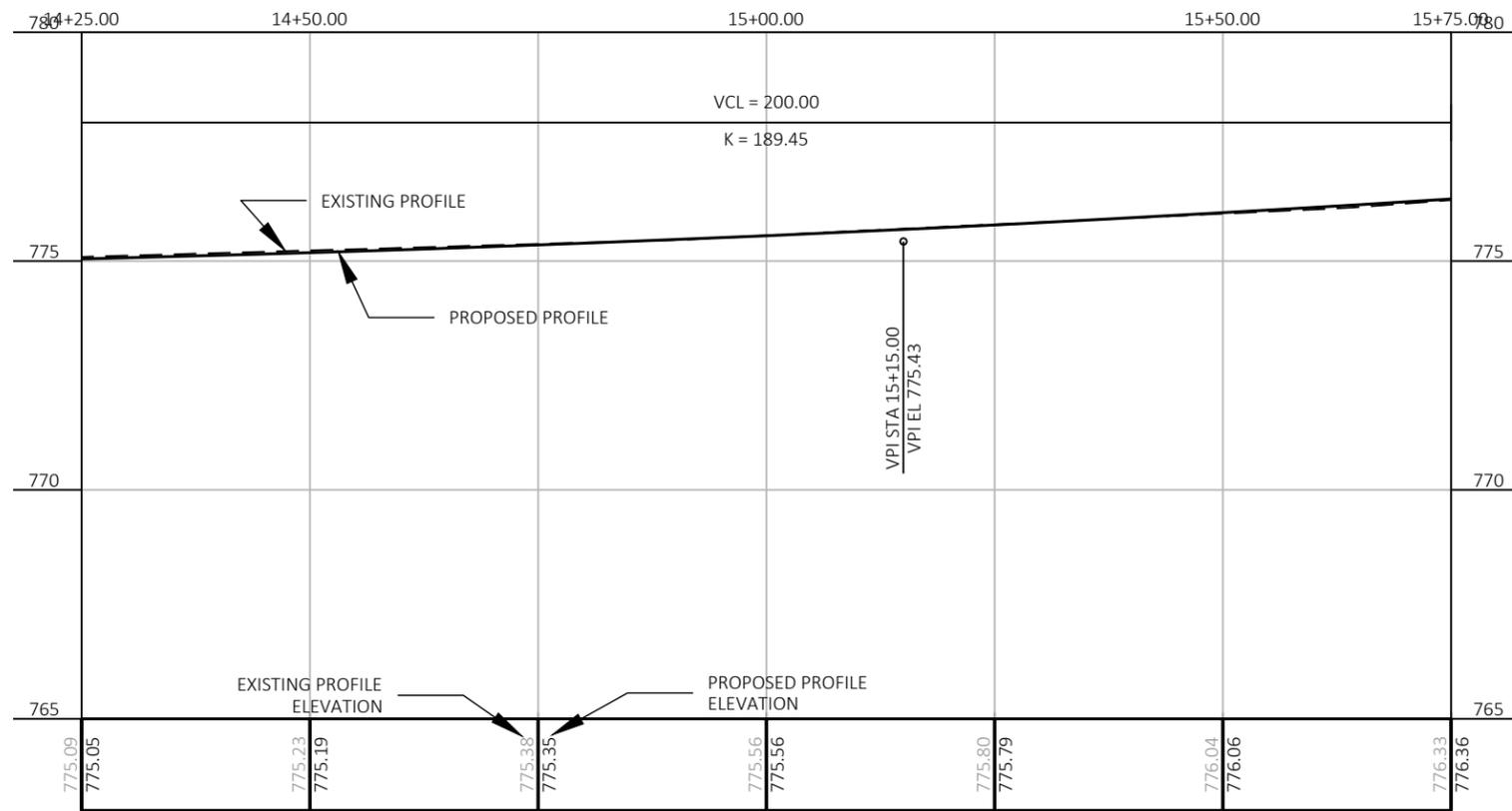
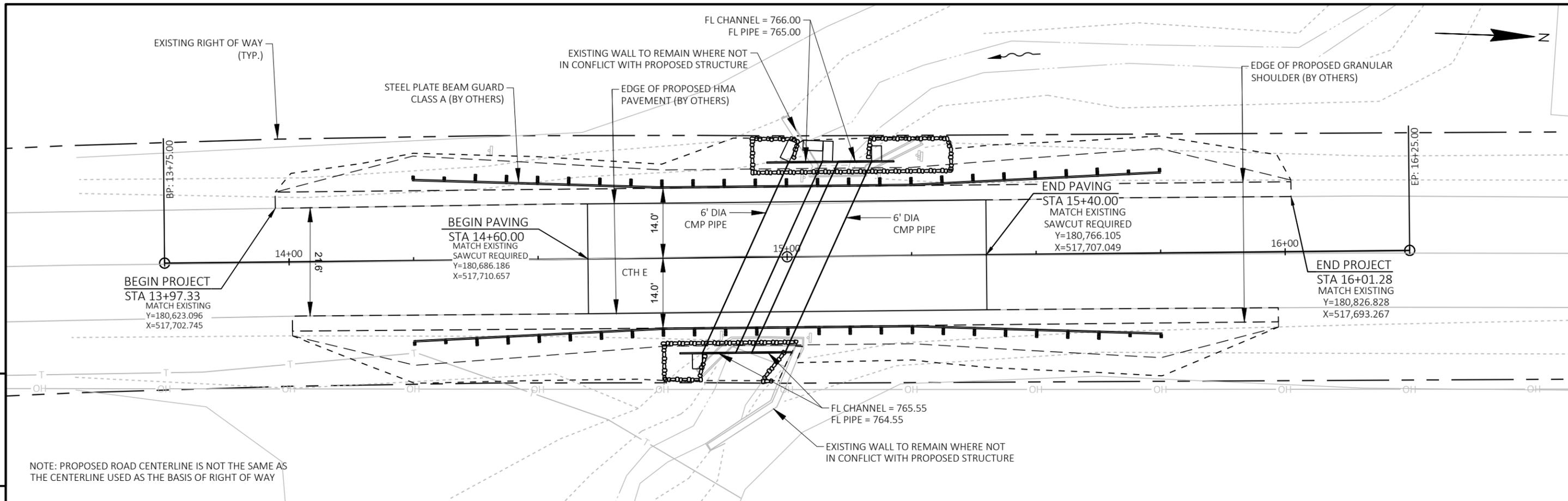
LEGEND

-  SILT FENCE
-  RIP RAP HEAVY
-  SLOPE INTERCEPT
-  SURFACE WATER FLOW
-  SEEDING NO. 20, FERTILIZER, AND MULCH

RUNOFF COEFFICIENT TABLE

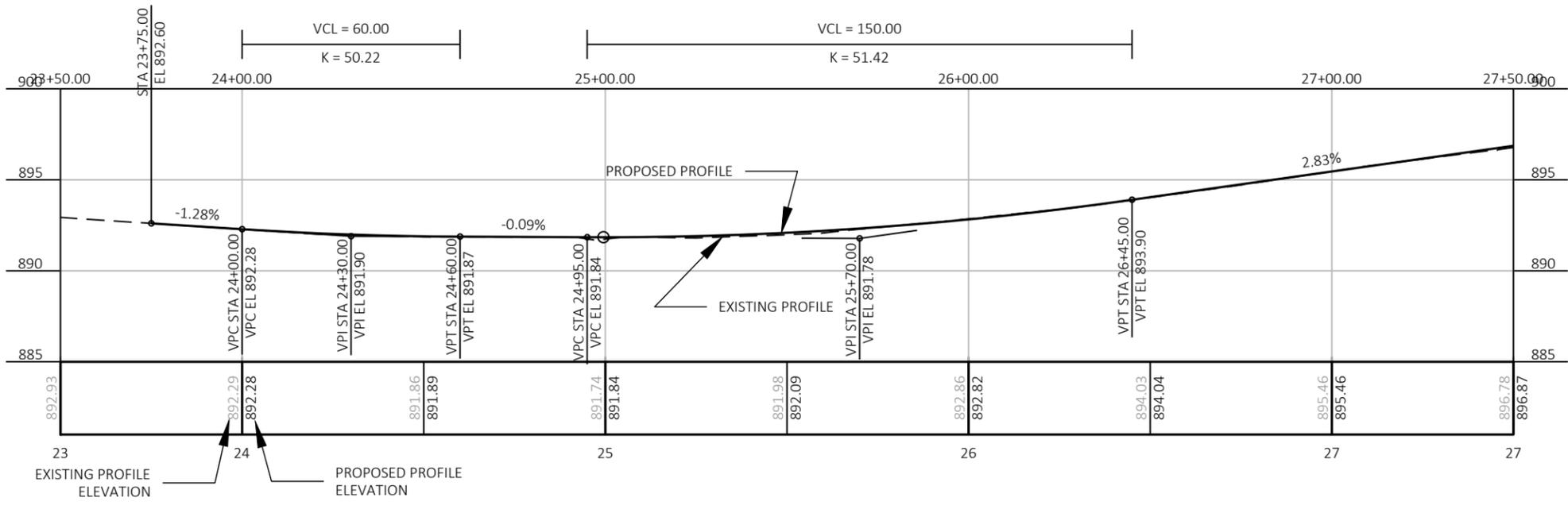
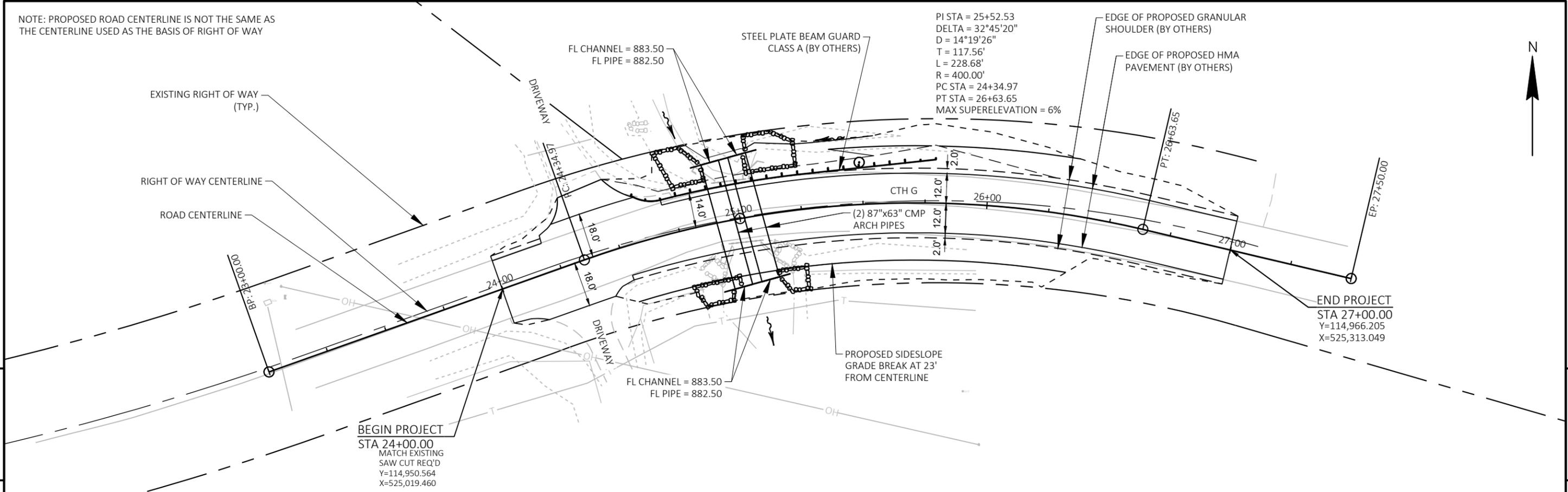
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER									
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 0.46 ACRES
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.19 ACRES

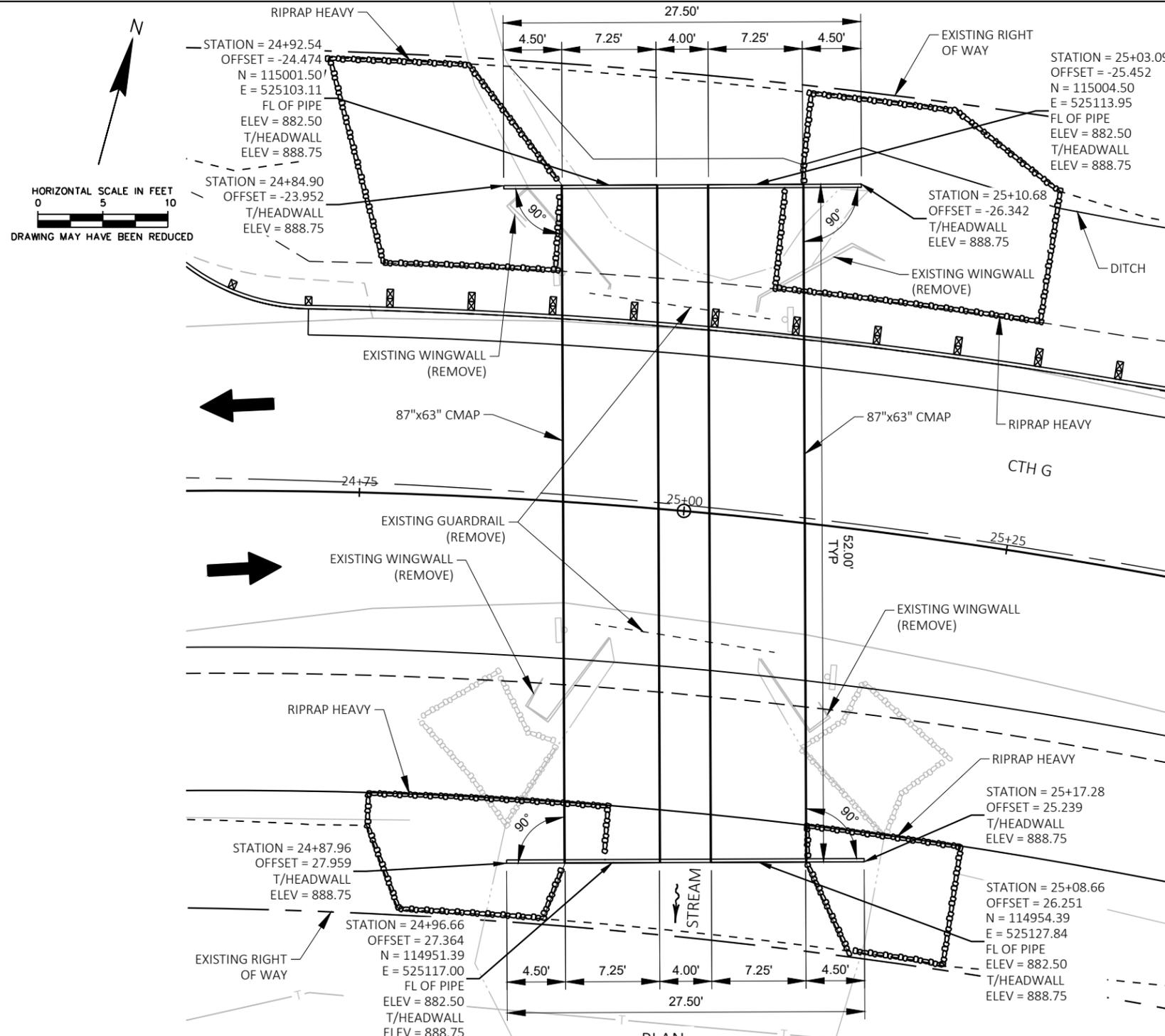


PROJECT NO: LACRO20-SMST HWY: CTH E COUNTY: LA CROSSE PLAN AND PROFILE: CTH E SHEET: E

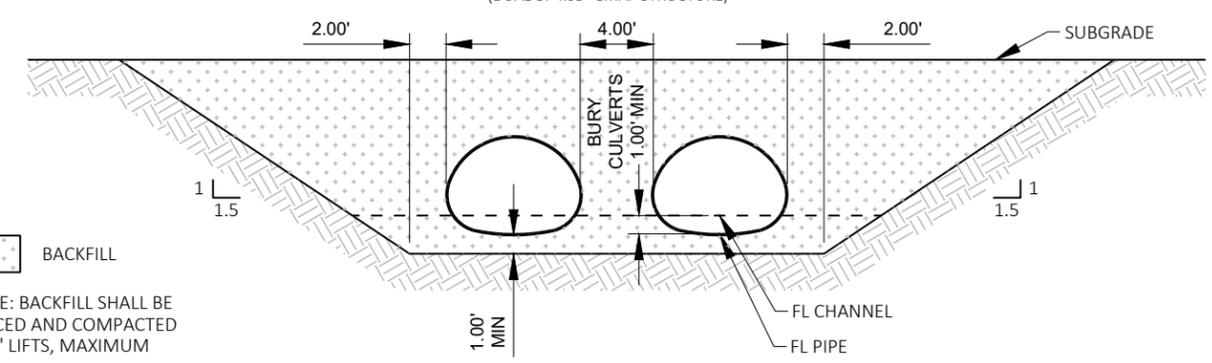
NOTE: PROPOSED ROAD CENTERLINE IS NOT THE SAME AS THE CENTERLINE USED AS THE BASIS OF RIGHT OF WAY



BID ITEM "REMOVE EXISTING STRUCTURE OVER WATER WITH MINIMAL DEBRIS" TO INCLUDE REMOVAL OF ENTIRE EXISTING STRUCTURE



PLAN
(DUAL 87"x63" CMAP STRUCTURE)



EXCAVATION AND BACKFILL DETAIL
(PERPENDICULAR TO CULVERTS)

NOTE: BACKFILL SHALL BE PLACED AND COMPACTED IN 6" LIFTS, MAXIMUM

HYDRAULIC DATA

25 YEAR FREQUENCY	
DRAINAGE AREA	0.93 SQ. MI.
Q ₂₅ TOTAL	260 C.F.S.
THROUGH STRUCTURE	260 C.F.S.
OVERTOPPING ROADWAY	0 C.F.S.
VELOCITY - THROUGH STRUCTURE	8.6 F.P.S.
WATERWAY AREA - THROUGH	
STRUCTURE	48.9 SQ.FT.
HIGH WATER ₂₅ ELEVATION	887.60
OVERFLOW FREQUENCY	>100 YEAR
EROSION CONTROL	
Q ₂ TOTAL	55 C.F.S.
HIGH WATER ₂ ELEVATION	885.04
VELOCITY ₂	5.0 F.P.S.

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CTH G OVER UNNAMED TRIBUTARY TO COON CREEK

COUNTY	LA CROSSE	TOWN	WASHINGTON
GENERAL PLAN		SHEET 2 OF #	

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