

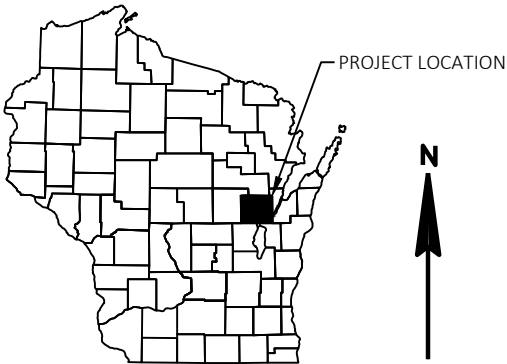
PROJECT ID:
WITH: 4494-07-71

COUNTY:
OUTAGAMIE

ORDER OF SHEETS

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

TOTAL SHEETS =



DESIGN DESIGNATION

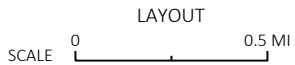
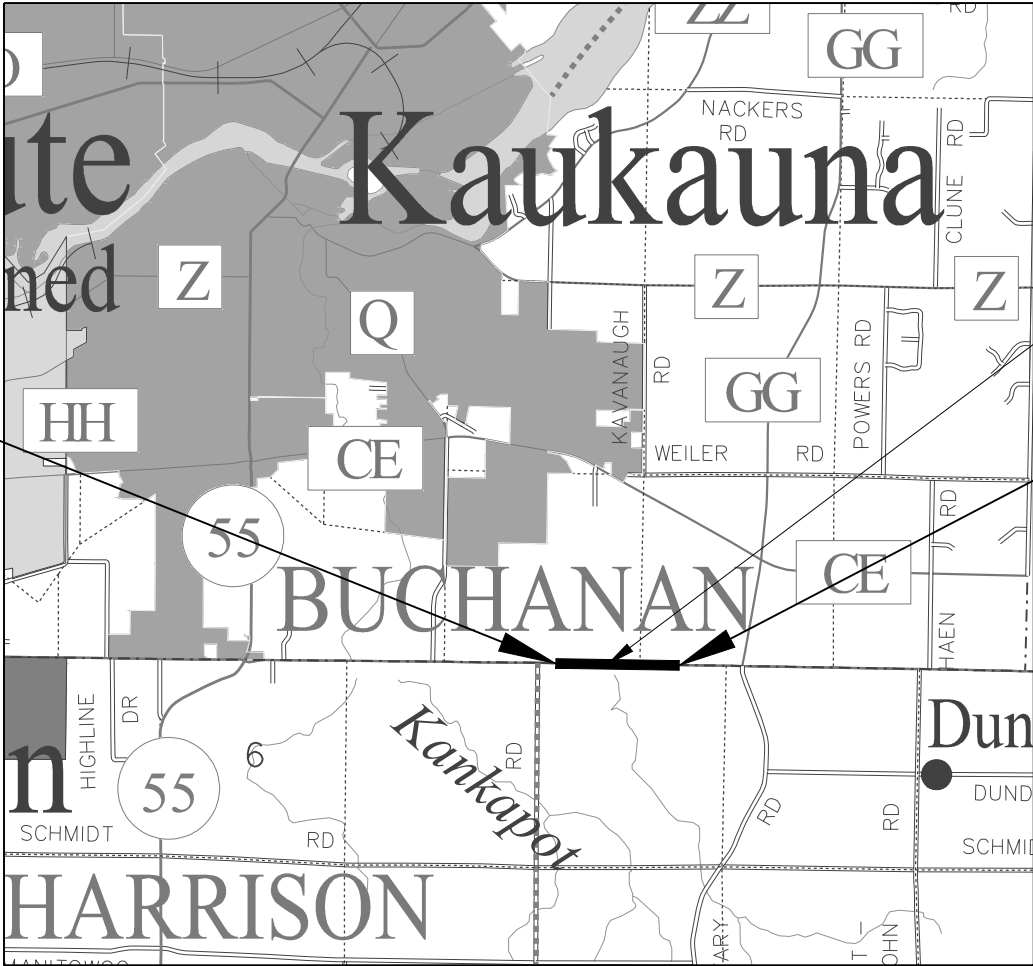
A.A.D.T.	2024	=	5600
A.A.D.T.	2044	=	6000
D.H.V.		=	656
D.D.		=	62/38
T.		=	7.7%
DESIGN SPEED		=	60 MPH
ESALS		=	340,000

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

BEGIN PROJECT
STA 14+50
Y = 555 371.1683
X = 870 348.3029



TOTAL NET LENGTH OF CENTERLINE = 0.42 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), OUTAGAMIE 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.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BUCHANAN - HOLLAND

KANKAPOT CREEK BRIDGE

CTH KK
OUTAGAMIE

STATE PROJECT NUMBER
4494-07-71



STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4494-07-71		

PRELIMINARY

ACCEPTED FOR
OUTAGAMIE COUNTY

Date (Signature and Title of Official)

ORIGINAL PLANS PREPARED BY
WESTBROOK
Associated Engineers, Inc.
619 EAST HOXIE STREET
P.O. BOX 429
SPRING GREEN, WISCONSIN 53588
PHONE (608) 588-7866
FAX (608) 588-7954

DATE: (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor WESTBROOK ASSOCIATED ENGINEERS, INC.
Designer WESTBROOK ASSOCIATED ENGINEERS, INC.
Project Manager MIKE COHEN, P.E.
Regional Examiner NE REGION
Regional Supervisor BRIAN EDWARDS, P.E.

APPROVED FOR THE DEPARTMENT
DATE: (Signature)

E

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

WETLANDS EXIST IN THE PROJECT AREA. NO DISTURBANCES SHALL OCCUR OUTSIDE OF THE SLOPE INTERCEPTS IN WETLAND AREAS.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE AND TURBIDITY BARRIER SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

MAINTAIN EROSION CONTROL ITEMS UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. PROTECT WETLANDS AND OTHER WATERWAYS THAT ARE PRESENT WITHIN THE PROJECT LIMITS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TEMPORARY SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

SLOPES 2.5:1 OR STEEPER REQUIRE EROSION MAT.

APPLY SEED, MULCH OR EROSION MAT, AND FERTILIZER TO ALL DISTURBED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A VERTICAL SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

5-INCHES OF HMA PAVEMENT SHALL BE CONSTRUCTED USING A 2.5-INCH UPPER LAYER OF HMA PAVEMENT 4 LT 58-28 S AND A 2.5-INCH LOWER LAYER OF HMA PAVEMENT 3 LT 58-28 S.

HMA PAVEMENT QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

APPLY TACK COAT BETWEEN LAYERS OF HMA PAVEMENT AT A RATE OF 0.07 GAL/SY.

PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE, COMMERCIAL, AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ADJUST DITCH GRADING AS NECESSARY TO FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT THE PROPOSED NAME PLATE WILL BE PLACED, AS DIRECTED BY THE ENGINEER.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), OUTAGAMIE COUNTY, HORIZONTAL DATUM NAD83 (2011), ELEVATION DATUM NAVD88 (2012).

CONTACTS

CONSULTANT LIAISON

WESTBROOK ASSOCIATED ENGINEERS, INC.
619 EAST HOXIE ST
SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E.
PH: (608) 588-7866
FAX: (608) 588-7954
apalmer@westbrookeng.com

WDNR LIAISON

DNR NORTH EAST REGION HEADQUARTERS
2984 SHAWANO AVE
GREEN BAY, WI 54313

ATTN: MATT SCHAEVE
PH: (920) 366-1544
Matthew.Schaeve@wisconsin.gov

COUNTY LIAISON

OUTAGAMIE COUNTY HIGHWAY DEPARTMENT
1313 HOLLAND RD
APPLETON, WI 54911

ATTN: DEAN STEINGRABER, P.E.
PH: (920) 832-5673
dean.steingraber@outagamie.org

UTILITIES

ELECTRIC

WE ENERGIES
NICOLE SMULLEN
500 S. 116TH ST
WEST ALLIS, WI 53214
PHONE: (262) 446-9821
EMAIL: Nicole.SmulLEN@wecenergygroup.com

COMMUNICATION

CHARTER
VINCENT ALBIN
3545 PLANK RD
APPLETON, WI 54915
PHONE: (920) 831-9249
EMAIL: Vince.Albin@charter.com

COMMUNICATION

AT&T
KYLE WEBER
221 W WASHINGTON ST
APPLETON, WI 54915
PHONE: (920) 221-5969
EMAIL: kw715w@att.com



Dial 811 or (800)242-8511

www.DiggersHotline.com

ORDER OF DETAIL SHEETS

- GENERAL NOTES
- TYPICAL SECTIONS
- ALIGNMENT DETAILS

RUNOFF COEFFICIENT TABLE

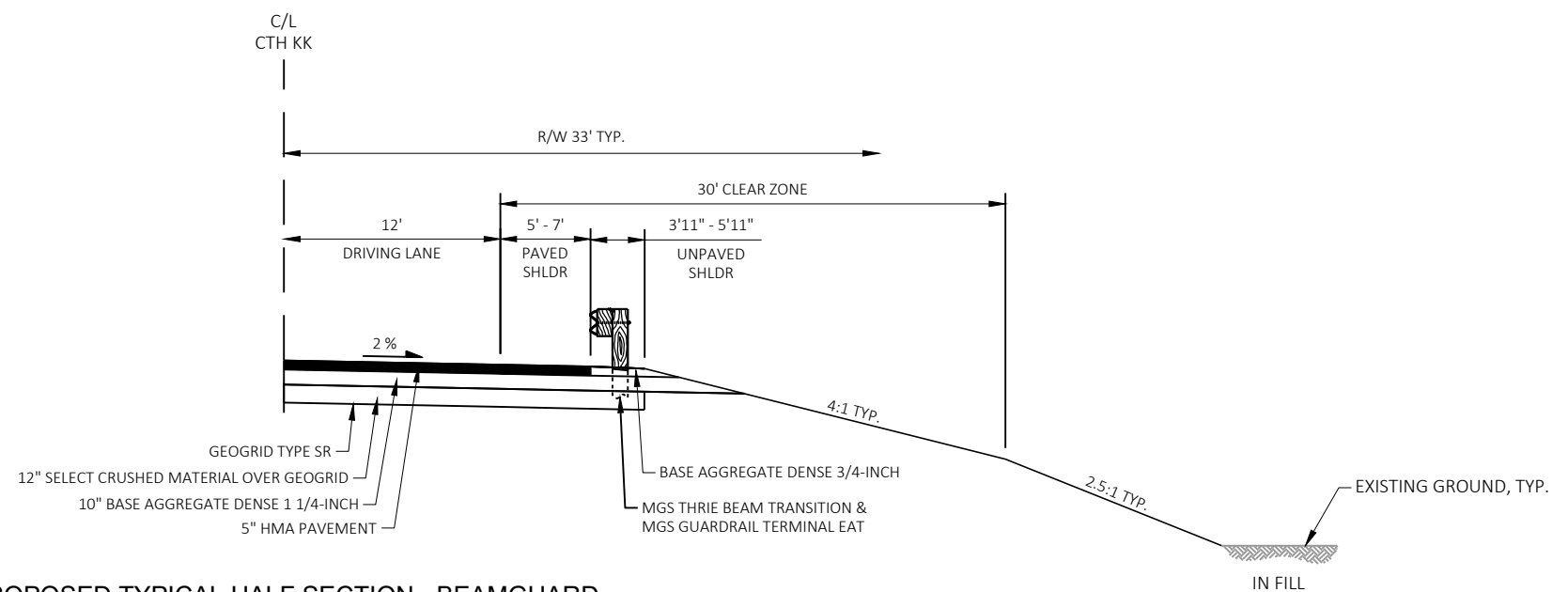
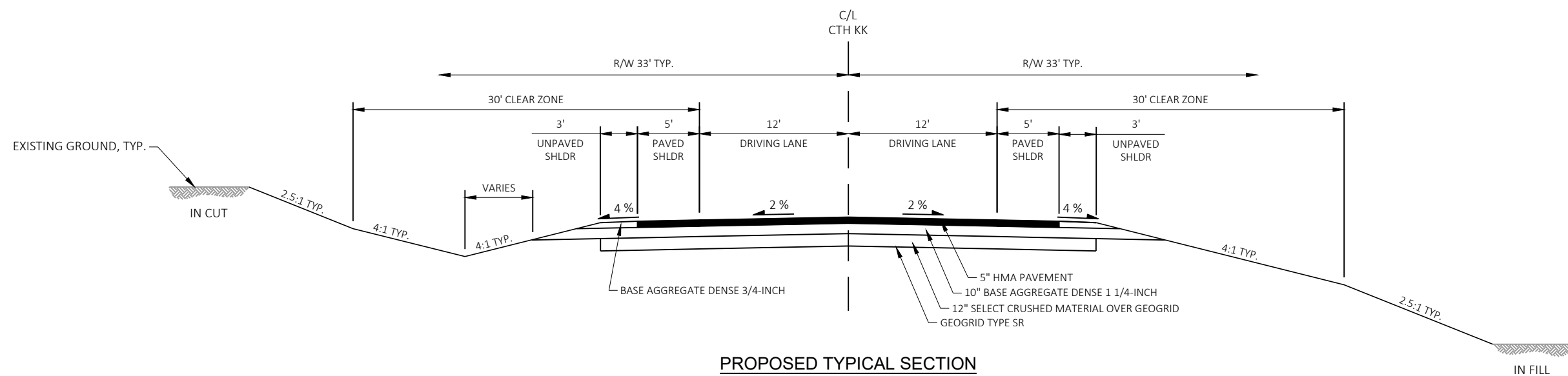
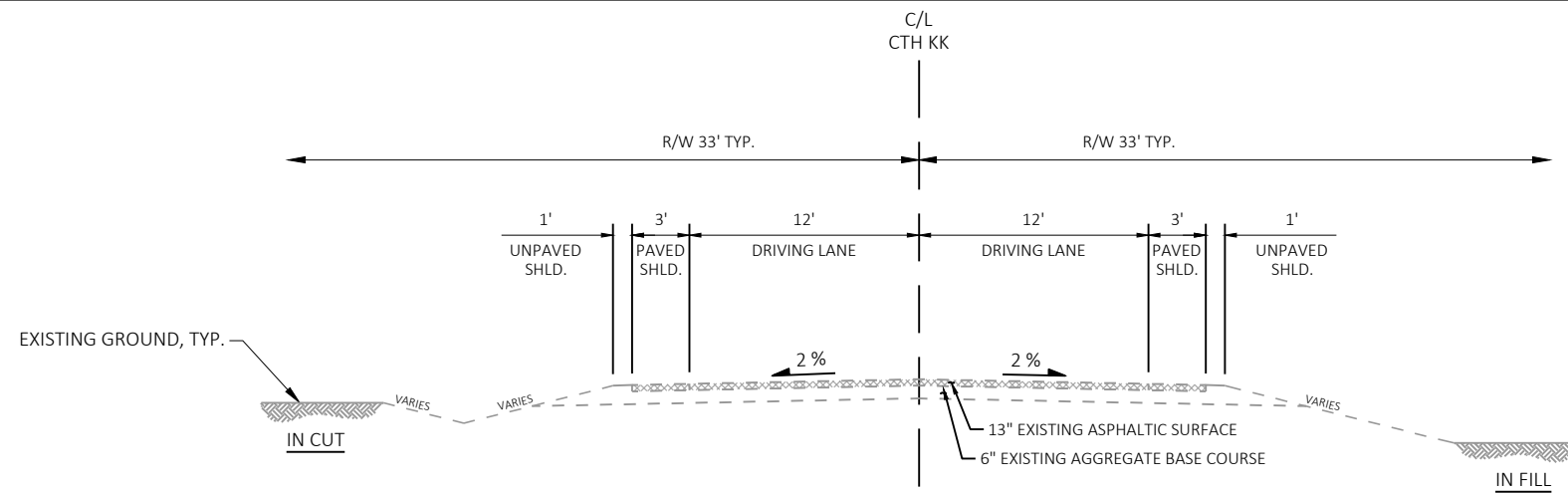
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33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

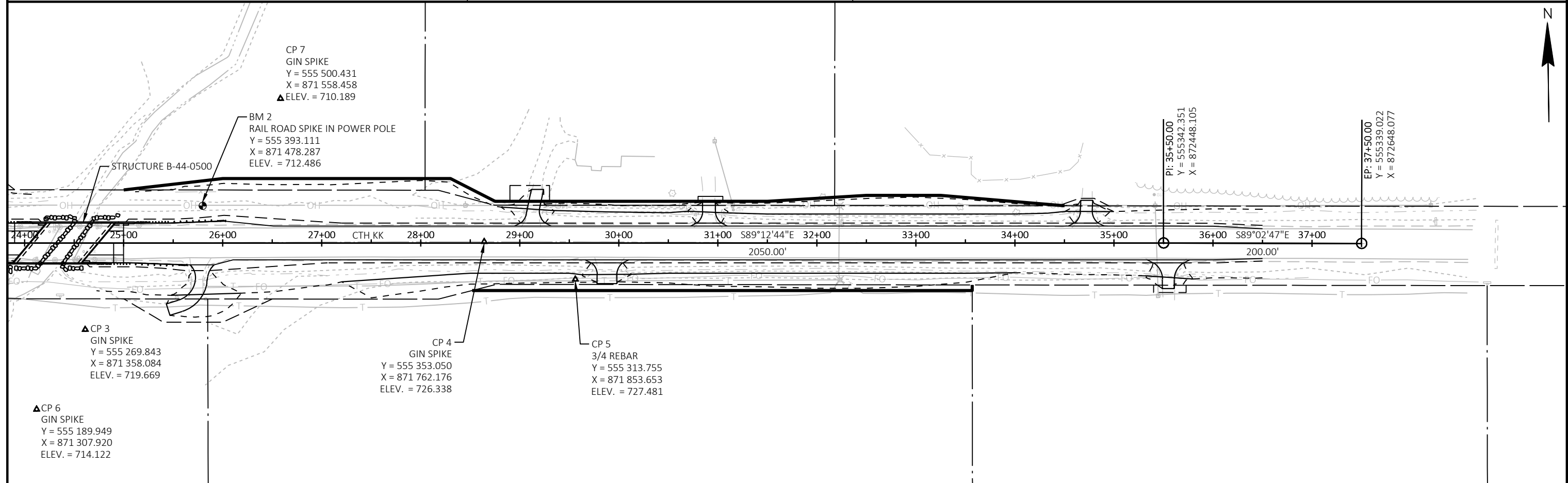
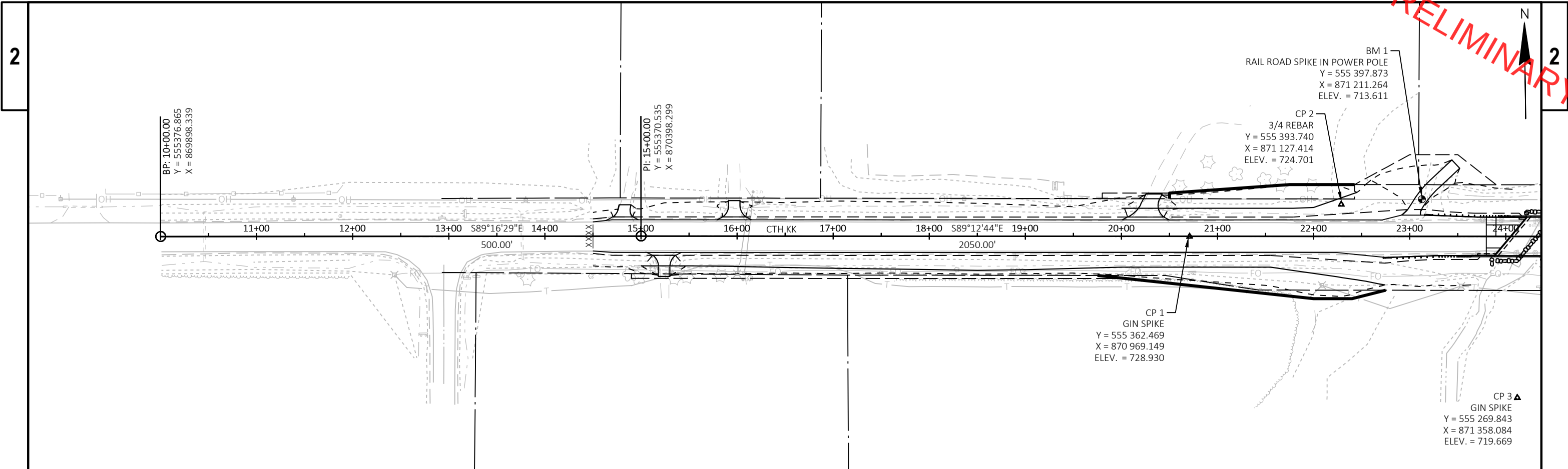
TOTAL PROJECT AREA = 4.50 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 4.78 ACRES

STANDARD ABBREVIATIONS

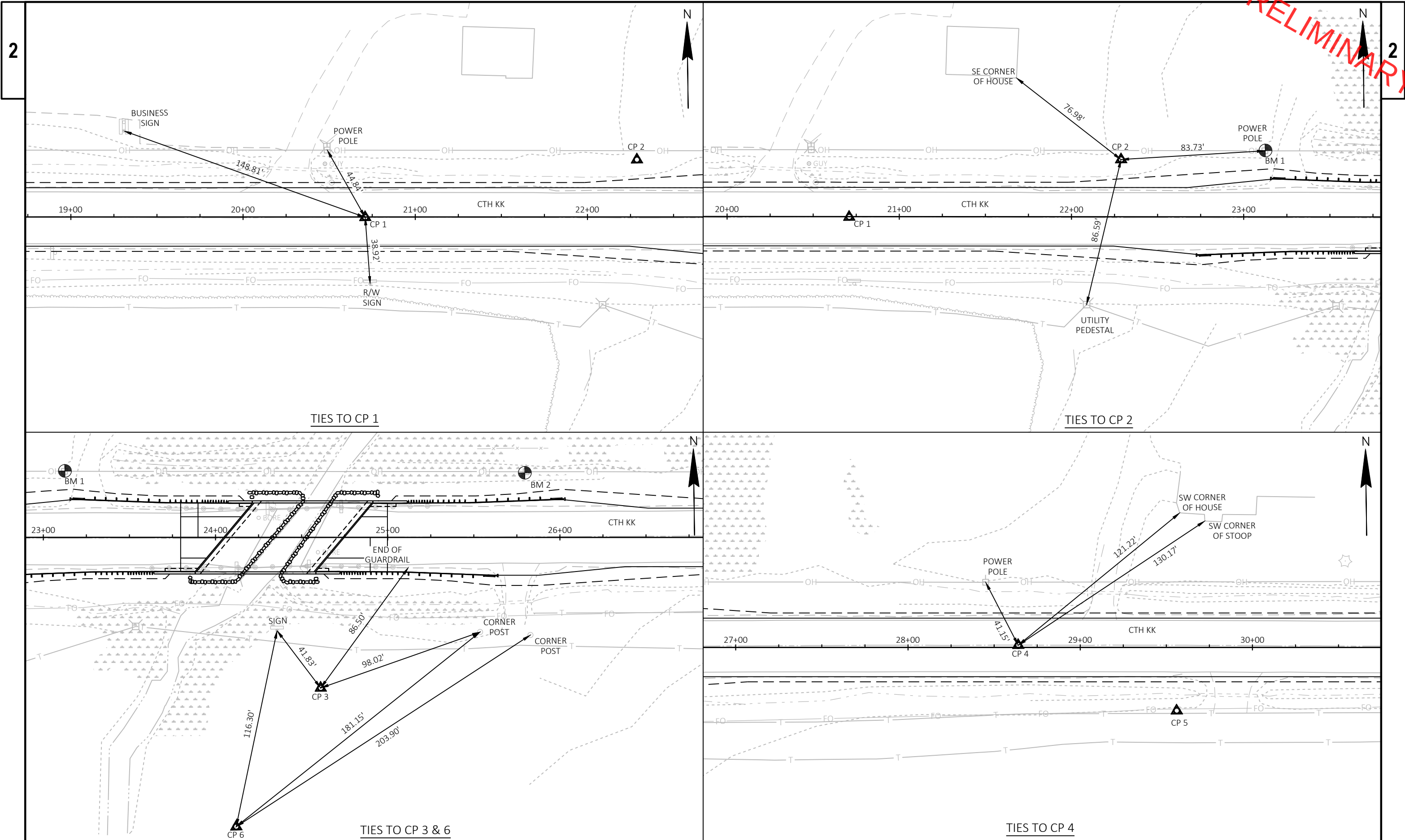
ABUT.	Abutment	JT	Joint	SEC	Section
AC	Acre	JCT	Junction	SHLDR	Shoulder
AGG.	Aggregate	LHF	Left-Hand Forward	SHR	SHRINKAGE
AH	Ahead	L	Length of Curve	SW	Sidewalk
<	Angle	LIN FT OR LF	Linear Foot	S	South
ASPH	Asphaltic	LC	Long Chord of Curve	SQ	Square
AVG.	Average	MH	Manhole	SF OR SQ FT	Square Feet
A.D.T	Average Daily Traffic	MB	Mailbox	SY or SQ YD	Square Yard
BAD	Base Aggregate Dense	ML OR M/L	Match Line	STD	Standard
BK	Back	N	North	SDD	Standard Detail Drawings
BF	Back Face	Y	North Grid Coordinate	STH	State Trunk Highway
B.M.	Bench Mark	OD	Outside Diameter	STA	Station
BR.	Bridge	PLE	Permanent Limited Easement	SS	Storm Sewer
C/L	Center Line	PT	Point	SG	Subgrade
CC	Center to Center	PC	Point of Curvature	SE	Superelevation
CTH	County Trunk Highway	PI	Point of Intersection	SL or S/L	Survey Line
CR.	Creek	PRC	Point of Reverse Curvature	SV	Septic Vent
CY or CU YD	Cubic Yard	PT	Point of Tangency	T	Tangent
CP	Culvert Pipe	POC	Point on Curve	TEL	Telephone
C & G	Curb and Gutter	PVC	Polyvinyl Chloride	TEMP	Temporary
D	Degree of Curve	PCC	Portland Cement Concrete	TI	Temporary Interest
DHV	Design Hour Volume	LB	Pound	t	Ton
DIA	Diameter	PSI	Pounds Per Square Inch	T or TN	Town
E	East	PE	Private Entrance	TRANS	Transition
X	East Grid Coordinate	R	Radius	TL OR T/L	Transit Line
ELEC	Electric	RR	Railroad	T	Trucks (percent of)
EL OR ELEV	Elevation	RL OR R/L	Reference Line	TYP	Typical
ESALS	Equivalent Single Axle Loads	RP	Reference Point	UNCL	Unclassified
ESB	Excavation Below Subgrade	RCCP	Reinforced Concrete Culvert Pipe	UG	Underground Cable
FF	Face to Face	REQD	Required	USH	United States Highway
FE	Field Entrance	RES	Residence or Residential	VAR	Variable
F	Fill	RW	Retaining Wall	V	Velocity or Design Speed
FG	Finished Grade	RT	Right	VERT	Vertical
FL or F/L	Flow Line	RHF	Right-Hand Forward	VC	Vertical Curve
FT	Foot	R/W	Right-of-Way	VOL	Volume
FTG	Footing	R	River	WM	Water Main
GN	Grid North	RD	Road	WV	Water Valve
HT	Height	RDWY	Roadway	W	West
CWT	Hundredweight	SALV	Salvaged	WB	Westbound
HYD	Hydrant	SAN S	Sanitary Sewer	YD	Yard
INL	Inlet	ID	Inside Diameter	INV	Invert
IP	Iron Pipe or Pin	IRS	Iron Rod Set		

PRELIMINARY

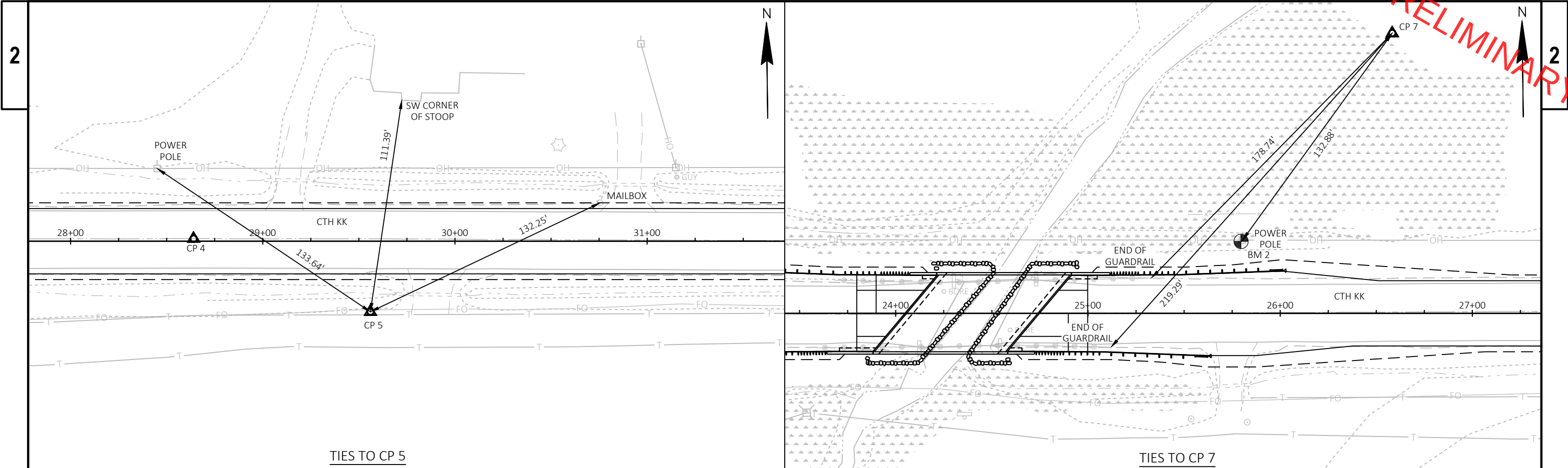




PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	ALIGNMENT DETAILS	SHEET	E
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PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CONTROL POINT TIES	SHEET	E
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PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CONTROL POINT TIES	SHEET	E
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PRELIMINARY

3

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	LOCATION	204.0110 SY
0030	34+71.00	DRIVEWAY, LT	36
		TOTAL 0030	36

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 LF
0010	23+59.07	-	24+16.81	MAINLINE, RT	68
0010	23+68.03	-	24+35.56	MAINLINE, LT	58
0010	24+49.49	-	25+12.01	MAINLINE, RT	67
0010	24+66.73	-	25+32.97	MAINLINE, LT	63
				TOTAL 0010	256

EARTHWORK SUMMARY

					205.0100 (1) EXCAVATION COMMON CUT (2)	(3) UNUSABLE PAVEMENT MATERIAL	(4) AVAILABLE MATERIAL	UNEXPANDED FILL	(5) EXPANDED FILL FACTOR 1.25 (CY)	(6) MASS ORDINATE +/- (CY)	(7) WASTE (CY)	208.0100 (8) BORROW (CY)
CATEGORY	STATION	TO	STATION	LOCATION	{CY}	{CY}	{CY}	{CY}	{CY}	{CY}	{CY}	{CY}
0010	22+54.80	-	24+21.33	WEST APPROACH	4,246	967	3,279	616	770	2,509	2,509	0
0010	24+58.23	-	26+23.80	EAST APPROACH	4,687	1,233	3,454	2,341	2,926	528	528	0
0010				DRIVEWAYS	0	0	0	445	556	-556	0	556
				TOTAL 0010	8,933	2,200	6,733	3,402	4,253	2,481	3,037	556
0030	14+50.00	-	22+54.80	WEST APPROACH	258	200	58	1,393	1,741	-1,683	0	1,683
0030	26+23.80	-	36+50.00	EAST APPROACH	198	198	0	2,065	2,581	-2,581	0	2,581
0030				DRIVEWAYS	34	0	34	147	184	-150	0	150
				TOTAL 0030	490	398	92	3,605	4,506	-4,414	0	4,414
				PROJECT TOTAL	9,423	2,598	6,825	7,007	8,759	-1,934	0	1,934

- 1) EXCAVATION COMMON IS THE SUM OF THE CUT. ITEM 205.0100
2) UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN THE CUT VOLUME.
3) UNUSABLE PAVEMENT MATERIAL INCLUDES REMOVED ASPHALTIC PAVEMENT.
4) AVAILABLE MATERIAL = CUT - UNUSABLE PAVEMENT MATERIAL.
5) EXPANDED FILL FACTOR = 1.25. EXPANDED FILL =(UNEXPANDED FILL) x 1.25
6) THE MASS ORDINATE +OR - QUANTITY CALCULATED FOR THE LOCATION. PLUS QUANTITY INDICATES AND EXCESS OF MATERIALS WITHIN THE LOCATION.
MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE LOCATION. MASS ORDINATE AVAILABLE MATERIAL EXPANDED FILL.
7) WASTE - POSITIVE MASS ORDINATE. WASTE MATERIAL TO BE USED ON SITE.
8) BORROW = NEGATIVE MASS ORDINATE. ITEM 208.0100.

3

BASE AGGREGATE DENSE

					305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4- INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100 WATER MGAL
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	TON	MGAL
0010	22+54.80	-	24+04.80	MAINLINE	26	428	532	4.6
0010	24+74.80	-	26+23.80	MAINLINE	26	430	531	4.6
0010				UNPAVED DRIVEWAYS	---	63	---	---
				TOTAL 0010	52	921	1,063	9.2
0030	14+50.00	-	22+54.80	MAINLINE	225	2,064	2,300	22.9
0030	26+23.80	-	36+50.00	MAINLINE	290	2,614	2,920	29.1
0030				UNPAVED DRIVEWAYS	---	109	---	---
0030				PAVED DRIVWAYS	---	12	---	---
				TOTAL 0030	515	4,799	5,220	52.0
				PROJECT TOTALS	567	5,720	6,283	61.2

CONCRETE PAVEMENT APPROACH SLAB

CATEGORY	STATION	TO	STATION	LOCATION	415.0410 SY
0010	23+79.73	-	24+04.80	WEST APPROACH	112
0010	24+74.80	-	24+99.87	EAST APPROACH	112
				TOTAL 0010	224

ASPHALTIC SURFACE DRIVEWAYS AND FIELD
ENTRANCES

CATEGORY	STATION	LOCATION	465.0120 TON
0030	34+71	DRVEWAY, LT	6
		TOTAL 0030	6

ASPHALTIC ITEMS

					455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON
CATEGORY	STATION	TO	STATION	LOCATION	GAL	TON
0010	22+58.80	-	23+79.73	WEST APPROACH	40	160
0010	24+99.87	-	26+23.80	EAST APPROACH	40	159
				TOTAL 0010	80	319
0030	14+50.00	-	22+58.80	WEST APPROACH	216	864
0030	26+23.80	-	36+50.00	EAST APPROACH	275	1,100
				TOTAL 0030	491	1,964
				PROJECT TOTALS	571	2,283

PROJECT NO: 4494-07-71

HWY: CTH KK

COUNTY: OUTAGAMIE

MISCELLANEOUS QUANTITIES

SHEET

E

3

GUARDRAIL

					614.2500	614.2610
					MGS THRIE	MGS
					BEAM	GUARDRAIL
					TRANSITION	TERMINAL EAT
CATEGORY	STATION	TO	STATION	LOCATION	LF	EACH
0010	23+27.41	-	23+66.81	MAINLINE, RT	39.40	1
0010	23+70.56	-	24+09.95	MAINLINE, LT	39.40	1
0010	24+69.64	-	25+09.05	MAINLINE, RT	39.40	1
0010	25+08.62	-	25+48.02	MAINLINE, LT	39.40	1
TOTAL 0010					157.60	4

FINISHING ITEMS

					625.0500	627.0200	628.2008	629.0210	630.0130	630.0200	630.0500
					SALVAGED	MULCHING	EROSION MAT	FERTILIZER TYPE	SEEDING	SEEDING	SEED WATER
CATEGORY	STATION	TO	STATION	LOCATION	TOPSOIL	SY	URBAN CLASS I	B	MIXTURE NO. 30	TEMPORARY	MGAL
					SY	SY	SY	CWT	LB	LB	
0010	22+58.80	-	24+08.80	MAINLINE, LT	560	160	400	0.44	10	20	12
0010	22+58.80	-	24+08.80	MAINLINE, RT	300	140	160	0.26	10	10	7
0010	24+74.80	-	26+23.80	MAINLINE, LT	400	120	280	0.31	10	10	8
0010	24+74.80	-	26+23.80	MAINLINE, RT	480	160	320	0.39	10	20	11
0010	UNDIST				440	150	290	0.35	10	20	10
TOTAL 0010					2,180	730	1,450	1.75	50	80	48
0030	14+50.00		22+58.80	MAINLINE, LT	1,120	970	160	1.16	30	50	31
0030	14+50.00	-	22+58.80	MAINLINE, RT	1,500	1,360	150	1.48	40	60	40
0030	26+23.80	-	36+50.00	MAINLINE, LT	2,080	1,580	500	1.85	50	80	49
0030	26+23.80	-	36+50.00	MAINLINE, RT	1,750	1,660	90	1.77	50	80	47
0030	UNDIST				1,610	1,390	230	1.57	50	70	42
TOTAL 0030					8,060	6,960	1,130	7.83	220	340	209
PROJECT TOTAL					10,240	7,690	2,580	9.58	270	420	257

SILT FENCE

					628.1504	628.1520
					SILT FENCE	SILT FENCE
					LF	MAINTENANCE
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF
0010	22+54.80	-	24+56.31	MAINLINE, LT	230	460
0010	22+54.80	-	23+77.93	MAINLINE, RT	125	250
0010	24+70.65	-	26+23.80	MAINLINE, LT	160	320
0010	24+28.41	-	26+23.80	MAINLINE, RT	210	420
0010	UNDIST				180	
TOTAL 0010					905	1,450
0030	22+24.32	-	22+54.80	MAINLINE, LT	30	60
0030	26+23.80	-	29+11.62	MAINLINE, LT	300	600
0030	26+23.80	-	27+62.09	MAINLINE, RT	140	280
0030	UNDIST				120	---
TOTAL 0030					590	940
PROJECT TOTAL					1,495	2,390

MOBILIZATIONS EROSION CONTROL

		628.1905	628.1910
		MOBILIZATIONS	MOBILIZATIONS
		EROSION	EMERGENCY
		CONTROL	EROSION
CATEGORY	LOCATION	EACH	EACH
0010	ID 4494-07-71	4	2
TOTAL 0010		4	2

TURBIDITY BARRIERS

		628.6005
CATEGORY	LOCATION	SY
0010	WEST APPROACH	116
0010	EAST APPROACH	80
TOTAL 0010		196

CULVERT PIPE CHECKS

			628.7555
CATEGORY	STATION	LOCATION	EACH
0010	25+79	RT, DRIVEWAY	2
TOTAL 0010			2
0030	15+24	RT, DRIVEWAY	2
0030	15+97	LT, DRIVEWAY	2
0030	20+27	LT, DRIVEWAY	2
0030	29+13	LT, DRIVEWAY	2
0030	29+88	RT, DRIVEWAY	2
0030	30+91	LT, DRIVEWAY	2
0030	34+71	LT, DRIVEWAY	2
0030	35+55	RT, DRIVEWAY	2
TOTAL 0030			16
PROJECT TOTAL			18

PROJECT NO: 4494-07-71

HWY: CTH KK

COUNTY: OUTAGAMIE

MISCELLANEOUS QUANTITIES

SHEET

E

PRELIMINARY

3

SIGNING

					634.0612 POSTS WOOD 4X6-INCH X 12- FT	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	
CATEGORY	STATION	LOCATION	SIGN NUMBER	SIGN CODE	EACH	SF	EACH	EACH	REMARKS
0010	18+90	RT	5R	---	---	---	2	1	NARROW BRIDGE & 35 MPH
0010	23+64	RT	1	W5-52 R	1	3	---	---	BRIDGE HASH MARKS
0010	24+07	LT	2	W5-52 L	1	3	---	---	BRIDGE HASH MARKS
0010	24+14	RT	1R	---	---	---	1	1	BRIDGE HASH MARKS
0010	24+32	LT	2R	---	---	---	1	1	BRIDGE HASH MARKS
0010	24+53	RT	3R	---	---	---	1	1	BRIDGE HASH MARKS
0010	24+71	LT	4R	---	---	---	1	1	BRIDGE HASH MARKS
0010	24+72	RT	3	W5-52 L	1	3	---	---	BRIDGE HASH MARKS
0010	25+11	LT	4	W5-52 R	1	3	---	---	BRIDGE HASH MARKS
0010	32+24	LT	6R	---	---	---	2	1	NARROW BRIDGE & 35 MPH
TOTAL 0010					4	12	8	6	

GEOGRID TYPE SR

645.0220 SY					
CATEGORY	STATION	TO	STATION	LOCATION	
0010	22+58.80	-	24+08.80	MAINLINE	840
0010	24+74.80	-	26+23.80	MAINLINE	840
TOTAL 0010					1,680
0030	14+50.00	-	22+58.80	MAINLINE	3,640
0030	26+23.80	-	36+50.00	MAINLINE	4,610
TOTAL 0030					8,250
PROJECT TOTAL					9,930

MARKING LINE EPOXY 4-INCH

646.1020 LF					
CATEGORY	STATION	TO	STATION	LOCATION	REMARKS
0010	22+54.80	-	26+23.80	EDGE LINE, LT	SOLID WHITE
0010	22+54.80	-	26+23.80	EDGE LINE, RT	SOLID WHITE
0010	22+54.80	-	26+23.80	CENTERLINE, LT	SINGLE YELLOW
0010	22+54.80	-	22+80.00	CENTERLINE, RT	SINGLE DASHED YELLOW
0010	22+80.00	-	26+23.80	CENTERLINE, RT	SINGLE YELLOW
TOTAL 0010					1,458
0030	14+50.00	-	22+54.80	EDGE LINE, LT	SOLID WHITE
0030	14+50.00	-	22+54.80	EDGE LINE, RT	SOLID WHITE
0030	14+50.00	-	22+54.80	CENTERLINE, LT	SINGLE YELLOW
0030	14+50.00	-	22+54.80	CENTERLINE, RT	SINGLE DASHED YELLOW
0030	26+23.80	-	36+50.00	EDGE LINE, LT	SOLID WHITE
0030	26+23.80	-	36+50.00	EDGE LINE, RT	SOLID WHITE
0030	26+23.80	-	28+30.00	CENTERLINE, LT	SINGLE YELLOW
0030	26+23.80	-	36+50.00	CENTERLINE, RT	SINGLE YELLOW
0030	28+30.00	-	35+70.00	CENTERLINE, LT	SINGLE DASHED YELLOW
0030	35+70.00	-	36+50.00	CENTERLINE, LT	SINGLE YELLOW
TOTAL 0030					6,170
PROJECT TOTAL					7,628

CONSTRUCTION STAKING

650.4500 CONSTRUCTION STAKING SUBGRADE LF						650.5000 CONSTRUCTION STAKING BASE LF						650.6501.01 CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) (01. B-44-0500) EACH						650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF						650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 4494-07-71) EACH						650.9920 CONSTRUCTION STAKING SLOPE STAKES LF					
CATEGORY	STATION	TO	STATION	LOCATION		CATEGORY	STATION	TO	STATION	LOCATION		CATEGORY	STATION	TO	STATION	LOCATION		CATEGORY	STATION	TO	STATION	LOCATION		CATEGORY	STATION	TO	STATION	LOCATION		CATEGORY	STATION	TO	STATION	LOCATION	
0010	22+54.80	-	24+04.80	WEST APPROACH	150	0010	22+54.80	-	24+04.80	EAST APPROACH	149	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---
0010	24+74.80	-	26+23.80	EAST APPROACH	149	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---
0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---	0010	---	-	---	PROJECT	---
TOTAL 0010					299	TOTAL 0010					299	TOTAL 0010					0	TOTAL 0010					50	TOTAL 0010					1	TOTAL 0010					299
0020	---	-	---	PROJECT	---	0020	---	-	---	PROJECT	---	0020	---	-	---	PROJECT	---	0020	---	-	---	PROJECT	---	0020	---	-	---	PROJECT	---	0020	---	-	---	PROJECT	---
TOTAL 0020					0	TOTAL 0020					0	TOTAL 0020					1	TOTAL 0020					0	TOTAL 0020					0	TOTAL 0020					0
0030	14+50.00	-	22+54.80	WEST APPROACH	805	0030	14+50.00	-	22+54.80	EAST APPROACH	1,027	0030	14+50.00	-	22+54.80	WEST APPROACH	805	0030	14+50.00	-	22+54.80	EAST APPROACH	1,027	0030	14+50.00	-	22+54.80	WEST APPROACH	805	0030	14+50.00	-	22+54.80	EAST APPROACH	1,027
0030	26+23.80	-	36+50.00	EAST APPROACH	1,027	0030	26+23.80	-	36+50.00	EAST APPROACH	1,027	0030	26+23.80	-	36+50.00	EAST APPROACH	1,027	0030	26+23.80	-	36+50.00	EAST APPROACH	1,027	0030	26+23.80	-	36+50.00	EAST APPROACH	1,027	0030	26+23.80	-	36+50.00	EAST APPROACH	1,027
TOTAL 0030					1,832	TOTAL 0030					1,832	TOTAL 0030					0	TOTAL 0030					0	TOTAL 0030					0	TOTAL 0030					1,832
PROJECT TOTAL					2,131	PROJECT TOTAL					2,131	PROJECT TOTAL					1	PROJECT TOTAL					50	PROJECT TOTAL					1	PROJECT TOTAL					2,131

SAWING ASPHALT

690.0150 LF			
CATEGORY	STATION	LOCATION	
0030	14+50	MAINLINE	30
0030	34+71	DRIVEWAY, LT	12
0030	36+50	MAINLINE	30
TOTAL 0030			72

PROJECT NO: 4494-07-71

HWY: CTH KK

COUNTY: OUTAGAMIE

MISCELLANEOUS QUANTITIES

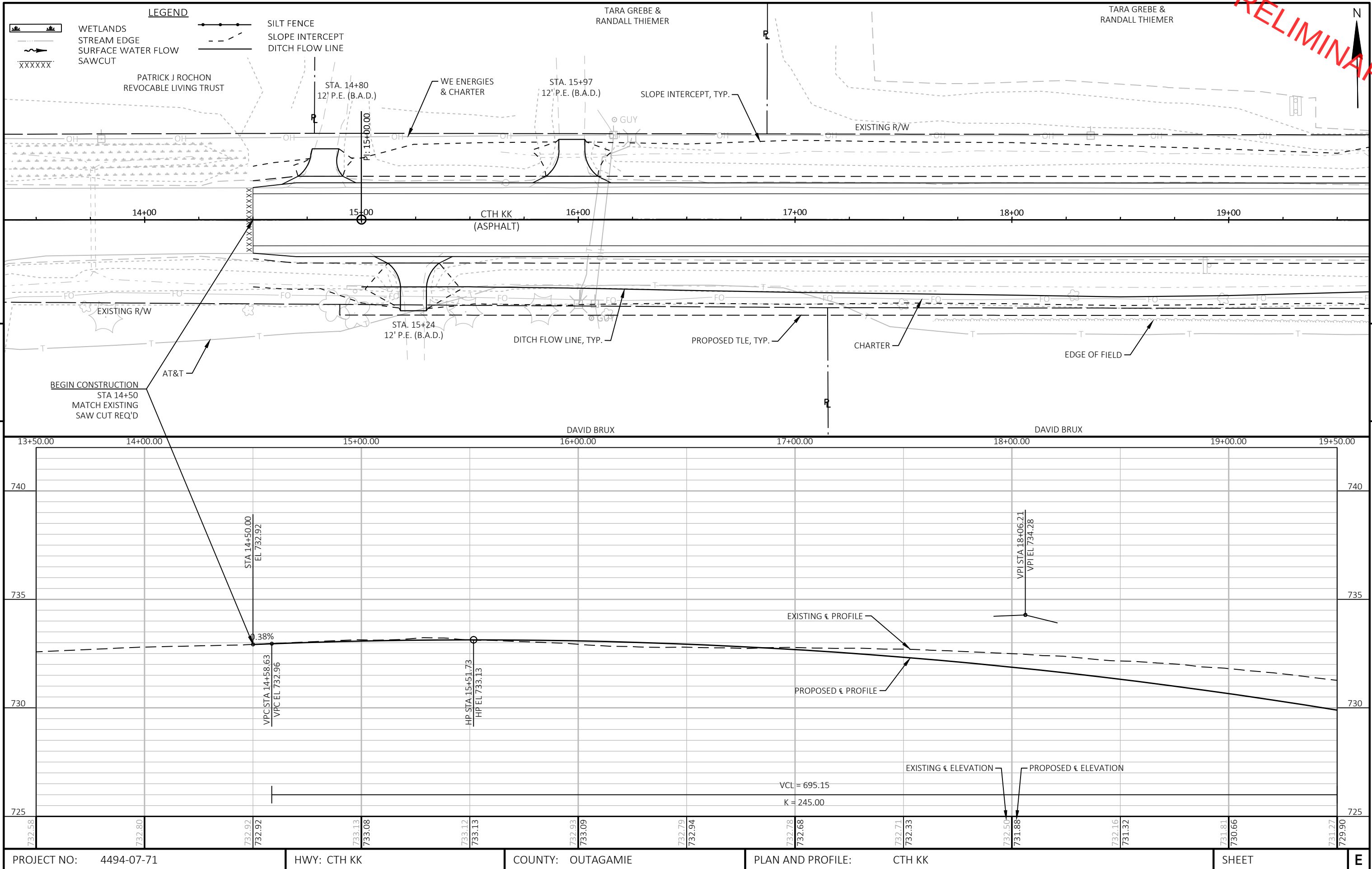
SHEET

E

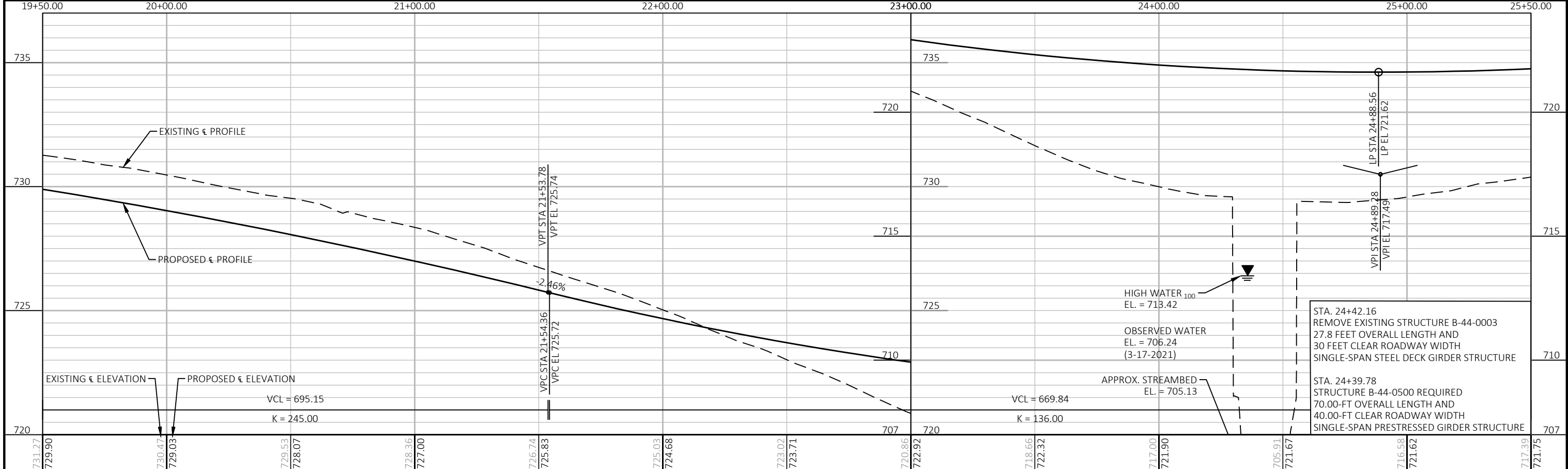
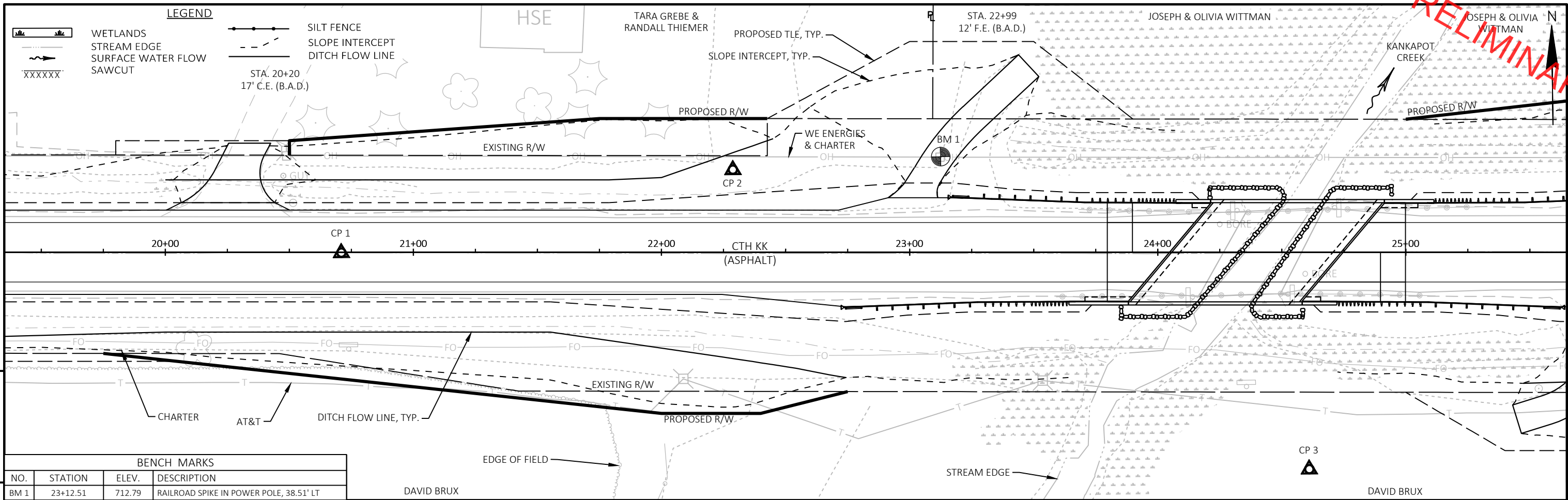
PRELIMINARY

3

PRELIMINARY

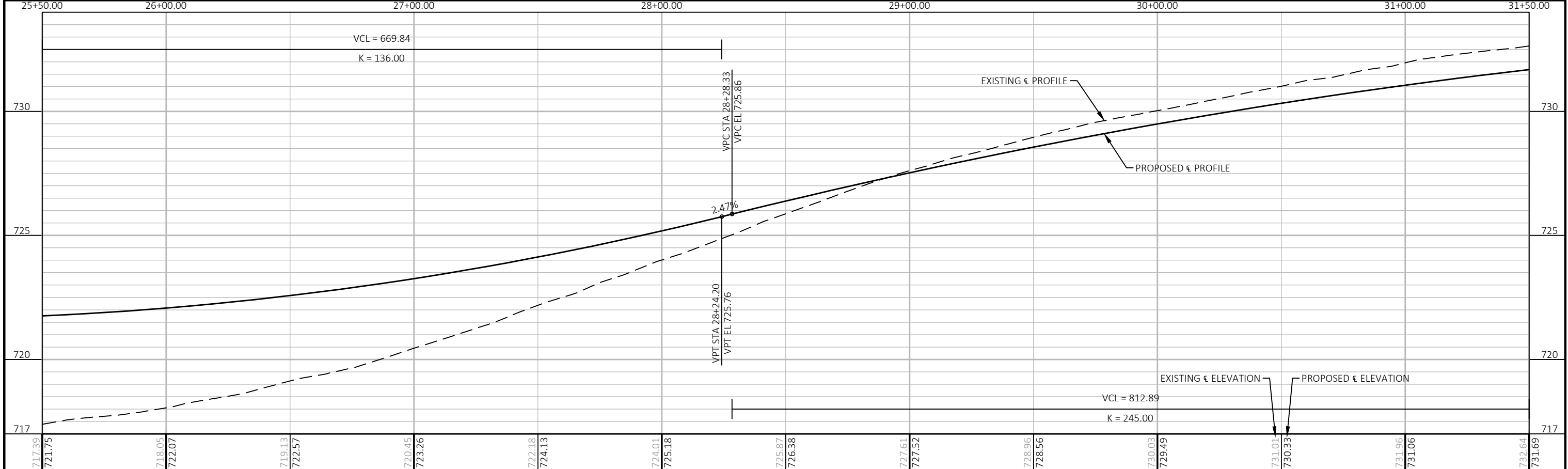
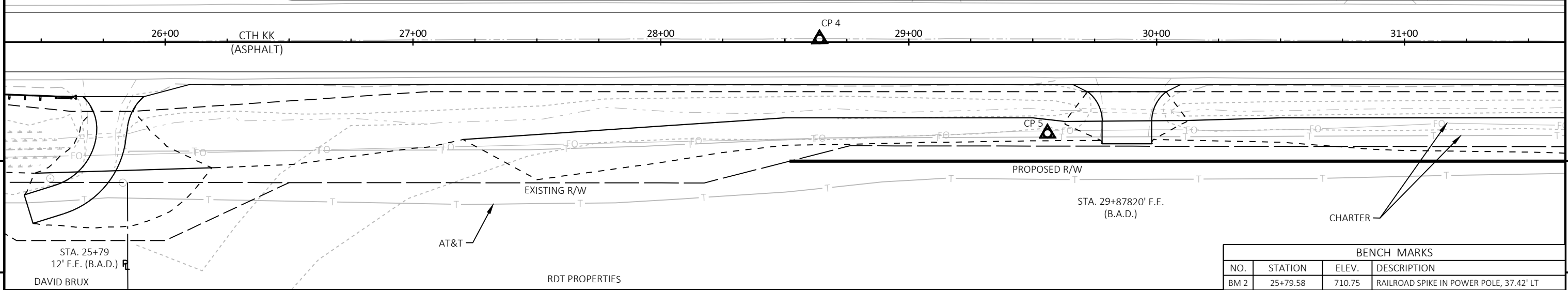
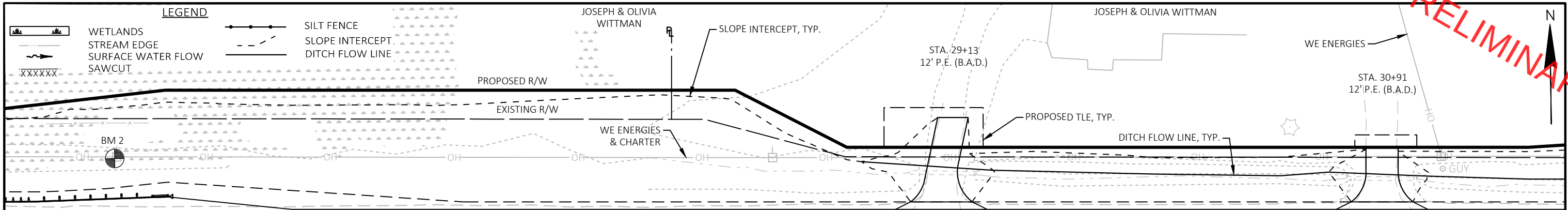


PRELIMINARY



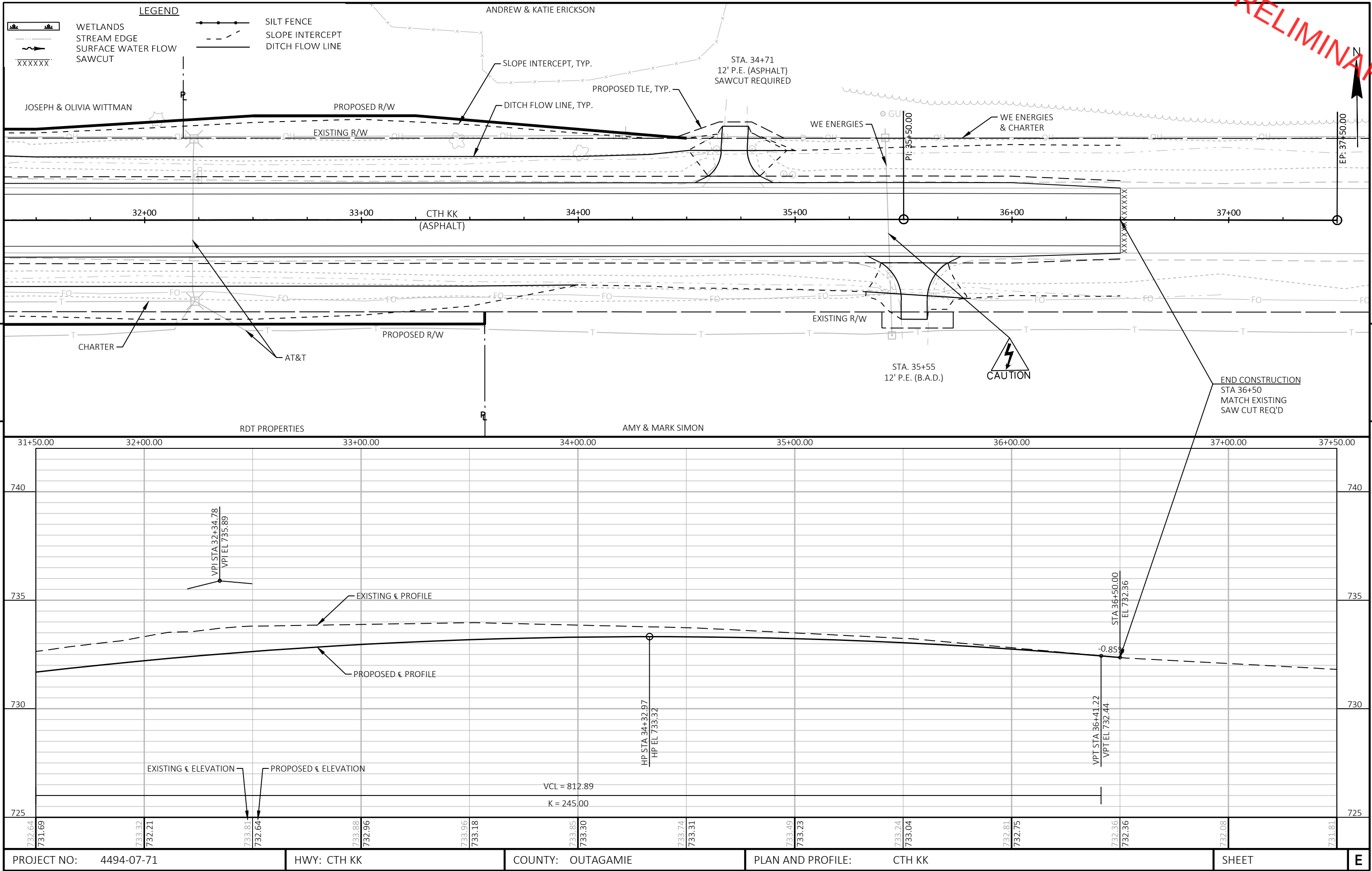
PROJECT NO:	4494-07-71	HWY:	CTH KK	COUNTY:	OUTAGAMIE	PLAN AND PROFILE:	CTH KK	SHEET	E
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PRELIMINARY



PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	PLAN AND PROFILE: CTH KK	SHEET E
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PRELIMINARY



PRELIMINARY

DESIGN DATA

LIVE LOAD:

DESIGN LOADING ——— HL-93
INVENTORY RATING FACTOR ——— RF=XXX
OPERATING RATING FACTOR ——— RF=XXX
WISCONSIN STANDARD PERMIT
VEHICLE RATING (WIS.-SPV): ——— XXX KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING
SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY, ——— $f_c = 4,000$ P.S.I.
DECK & DIAPHRAGMS ——— $f_c = 4,000$ P.S.I.
ALL OTHER ——— $f_c = 3,500$ P.S.I.
HIGH-STRENGTH BAR STEEL ——— $f_y = 60,000$ P.S.I.
REINFORCEMENT ——— $f_y = 60,000$ P.S.I.
36W-INCH PRESTRESSED GIRDERS ——— $f_c = 8,000$ P.S.I.
CONCRETE MASONRY ——— $f_c = 8,000$ P.S.I.
STRANDS — 0.6" DIAMETER WITH
AN ULTIMATE TENSILE
STRENGTH OF ——— $f_u = 270,000$ P.S.I.

FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON 12 $\frac{3}{4}$ X 0.25-INCH
C.I.P. PILING DRIVEN TO A REQUIRED DRIVING
RESISTANCE OF XX TONS PER PILE** AT W. ABUT. AND
XX TONS PER PILE** AT E. ABUT. AS DETERMINED BY
THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED XX
FT PILE LENGTHS AT W. ABUT. AND XX FT PILE
LENGTHS AT E. ABUT.

**THE FACTORED AXIAL RESISTANCE OF PILES IN
COMPRESSION USED FOR DESIGN IS THE REQUIRED
DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE
FACTOR OF 0.5 USING MODIFIED GATES DYNAMIC
FORMULA TO DETERMINE DRIVEN PILE CAPACITY.

HYDRAULIC DATA:

Q_{100} (THRU BRIDGE) ——— 940 C.F.S.
 Q_{100} (ROAD) ——— N/A
 Q_{100} (ROAD) ——— N/A
DRAINAGE AREA ——— 3.77 SQ. MI.
BRIDGE WATER AREA ——— 137 SQ. FT.
BRIDGE VELOCITY ——— 6.86 F.P.S.
HIGH WATER₁₀₀ EL. ——— 713.42 FT.
OVERTOPPING Q ——— N/A
OVERTOPPING EL. ——— N/A
OVERTOPPING Q FREQ. ——— N/A
SCOUR CRITICAL CODE ——— 5
 Q_2 ——— 226 C.F.S.
 Q_2 ELEVATION ——— 710.12 FT.
 Q_2 VELOCITY ——— 4.31 F.P.S.

BRIDGE OFFICE CONTACT
AARON BONK, P.E.
(608) 261-0261

CONSULTANT CONTACT
ANDY KNUTSON, P.E., S.E.
(608) 588-7866

NO.	DATE	REVISION	BY
WESTBROOK Associated Engineers, Inc.			
619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WI 53588 PHONE (608) 588-7866 FAX (608) 588-7954			

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____
CHIEF STRUCTURES DESIGN ENGINEER DATE _____

STRUCTURE B-44-500

CTH KK OVER KANKAPOT CREEK

COUNTY OUTAGAMIE TOWN/CITY/VILLAGE BUCHANAN

DESIGN SPEC. AASHTO LRFD DESIGN SPEC.

DESIGNED BY JDO DESIGN CK'D. CDS DRAWN BY JDO PLANS CK'D. ACK

GENERAL PLAN

SHEET 1 OF XX

NOTES

EXCAVATION AS INDICATED IN THE HATCH
AREAS, TO BE INCLUDED IN THE BID ITEM
"EXCAVATION FOR STRUCTURES BRIDGES
B-44-500".

G01 BACKFILL PAY LIMITS. BACKFILL BEYOND
BACKFILL PAY LIMITS SHALL BE INCLUDED
WITH BID ITEM "EXCAVATION FOR
STRUCTURES BRIDGES B-44-500". LIMITS
OF EXCAVATION SHALL BE DETERMINED
BY THE CONTRACTOR.

G02 "GEOTEXTILE TYPE DF SCHEDULE A"
LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF
ABUTMENT FOR THE ENTIRE ABUTMENT
BODY LENGTH.

G03 PIPE UNDERDRAIN WRAPPED (6-INCH).
SLOPE 0.5% MIN. TO SUITABLE DRAINAGE.
ATTACH RODENT SHIELD AT ENDS OF
PIPE UNDERDRAIN AS DETAILED IN
"ABUTMENT DETAILS" SHEET.

G04 NAME PLATE REQUIRED AND BENCH MARK
CAP (WHEN SUPPLIED). FOR LOCATION
SEE "ABUTMENT" SHEET.

G05 RIPRAP HEAVY WITH GEOTEXTILE TYPE
HR.

G06 FILL VOIDS IN RIPRAP WITH SELECT
CRUSHED MATERIAL FOR TRAVEL
CORRIDOR ABOVE Q2 WATER ELEVATION
OF 710.12 FT. COST OF SELECT CRUSHED
MATERIAL TO BE INCLUDED WITH BID ITEM
"SELECT CRUSHED MATERIAL FOR TRAVEL
CORRIDOR".

* LOCATION OF BEAM GUARD ATTACHMENT

INDICATES WING NUMBER

PLAN B-44-500

(SINGLE SPAN 36W-INCH PRESTRESSED GIRDER BRIDGE)

ELEVATION

(NORMAL TO KANKAPOT CREEK, LOOKING NORTH)

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION, GENERAL
NOTES & QUANTITIES
3. SUBSURFACE EXPLORATION

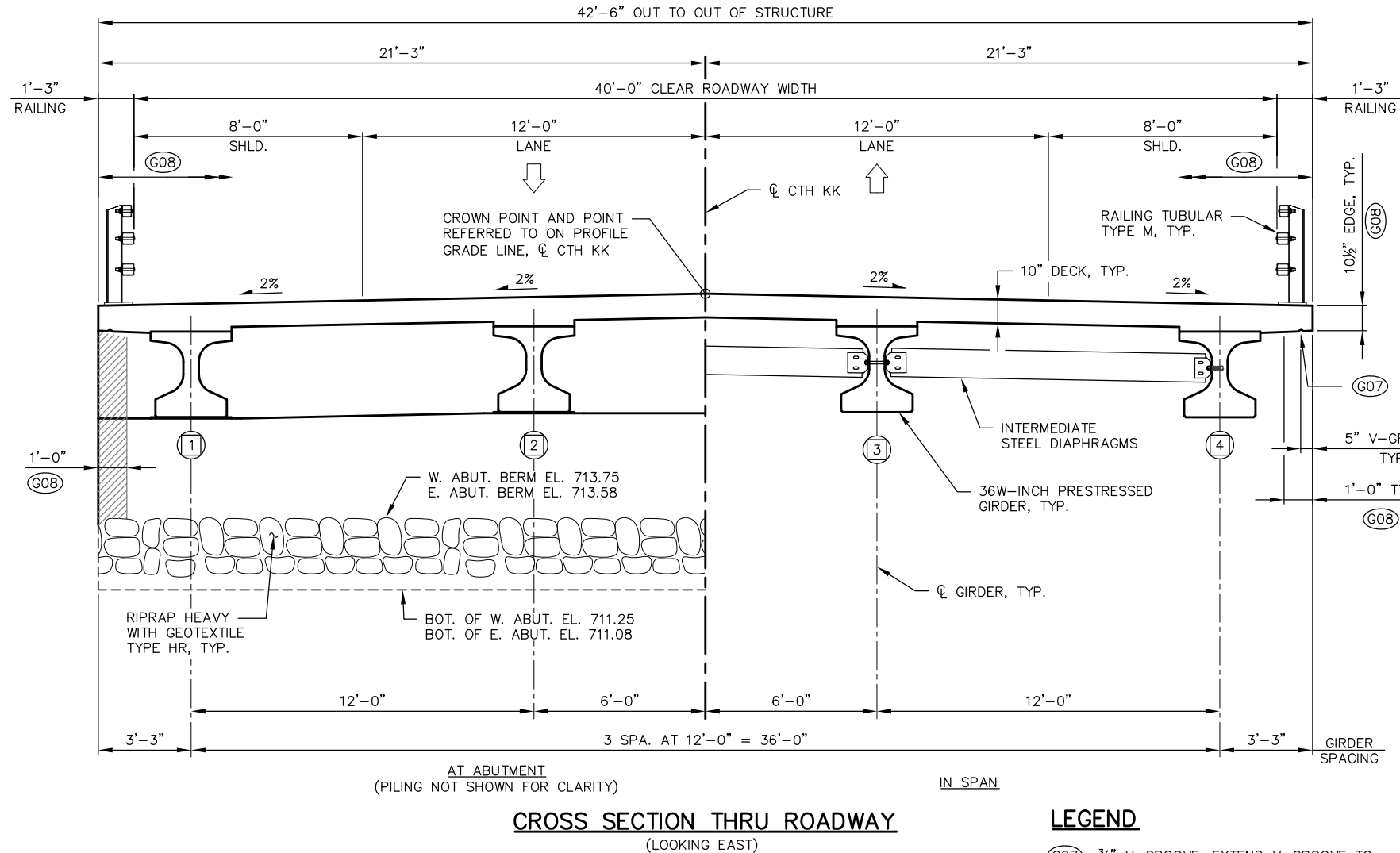
TRAFFIC DATA:

CTH KK
A.A.D.T. (2024) ——— 5,600
A.A.D.T. (2044) ——— 6,000
DESIGN SPEED ——— 60 M.P.H.

BENCH MARKS

NO.	STATION/OFFSET	DESCRIPTION	ELEVATION
BM 1	23+12.51, 38.51' LT.	RR SPIKE, POWER POLE	712.79
BM 2	25+79.58, 37.42' LT.	RR SPIKE, POWER POLE	710.75

HORIZONTAL DATUM AND ADJUSTMENT: NAD 83 (2011)
VERTICAL DATUM AND ADJUSTMENT: NAVD 88 (2012)
COORDINATE REFERENCE SYSTEM: WISCRS OUTAGAMIE CO.



TOTAL ESTIMATED QUANTITIES

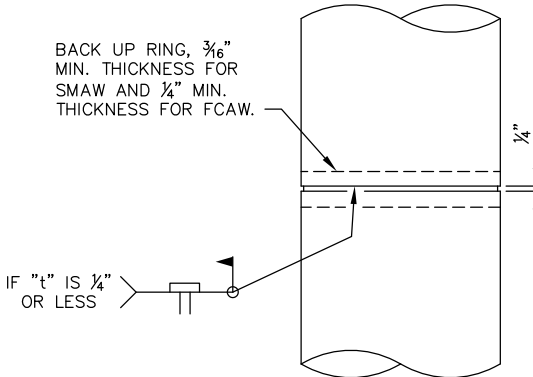
ITEM NO.	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-44-003	EACH	---	---	---	---
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-44-500	EACH	---	---	---	---
210.1500	BACKFILL STRUCTURE TYPE A	TON	---	---	---	---
502.0100	CONCRETE MASONRY BRIDGES	CY	---	---	---	---
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	---	---
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	---	---	---	---
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	---	---	---	---
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	---	---	---
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	---	---	---	---
506.4000	STEEL DIAPHRAGMS B-44-500	EACH	---	---	---	---
513.4061	RAILING TUBULAR TYPE M	LF	---	---	---	---
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	---	---	---	---
550.2124	PILING CIP CONCRETE 12 3/4 X 0.25-INCH	LF	---	---	---	---
606.0300	RIPRAP HEAVY	CY	---	---	---	---
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	---	---	---	---
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	---	---	---	---
645.0120	GEOTEXTILE TYPE HR	SY	---	---	---	---
SPV.0195.01	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON	---	---	---	---
(NON-BID ITEM)	FILLER	SIZE	---	---	---	1/2" & 3/4"

LEGEND

G07 3/4" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM. V-GROOVE ARE REQUIRED.

G08 COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO ENTIRE EXPOSED TOP OF DECK, INCLUDING THE DECK EDGES AND 1'-0" UNDER THE DECK, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE FRONT FACE OF THE ABUTMENTS TO 1'-0" PAST THE EDGE OF DECK.

INDICATES GIRDER LINE DESIGNATION



CAST-IN-PLACE 'PIPE PILE'

NOTE: CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

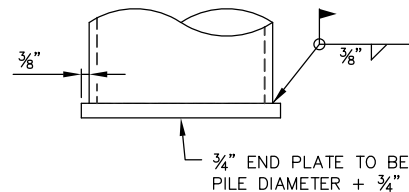
AT THE BACK FACE OF THE ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCLUDED WITH BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-44-500".

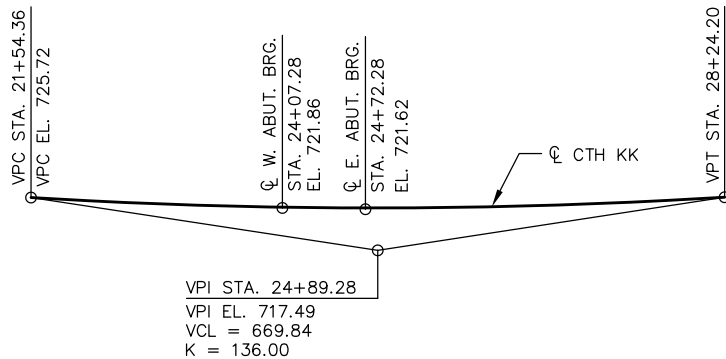
EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

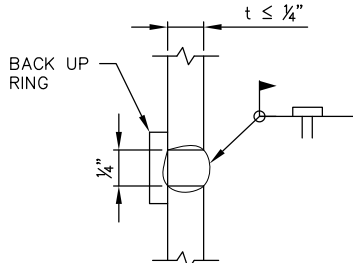
THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE ABUTMENTS.



END PLATE DETAIL FOR CIP PILING



PROFILE GRADE LINE, CTH KK



C.I.P. PILE WELD DETAIL

STATE PROJECT NUMBER

4494-07-71

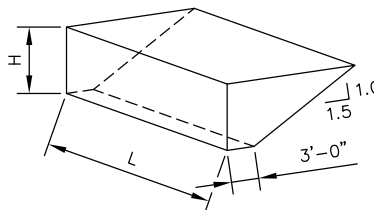
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE "GENERAL PLAN" SHEET AND ABUTMENT SHEETS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "36W-INCH PRESTRESSED GIRDER DETAILS" SHEET.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE SUPERSTRUCTURE DECK PER THE STANDARD SPECIFICATION. SEE "CROSS SECTION THRU ROADWAY", THIS SHEET FOR "PROTECTIVE SURFACE TREATMENT" LIMITS.

THE EXISTING STRUCTURE (B-44-003) IS A SINGLE SPAN STEEL GIRDER CONCRETE DECK STRUCTURE WITH AN OVERALL LENGTH OF 27.8-FT AND A CLEAR ROADWAY WIDTH OF 31.8-FT TO BE REMOVED. SUPERSTRUCTURE AND ABUTMENTS SHALL BE REMOVED IN ACCORDANCE WITH THE BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-44-003".



ABUTMENT BACKFILL DIAGRAM

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00)
 $V_{CF} = (L)(3.0')(H) + (L)(0.5')(1.5H)(H)$
 $V_{CY} = V_{CF}(EF)/27$
 $V_{TON} = V_{CY}(2.0)$

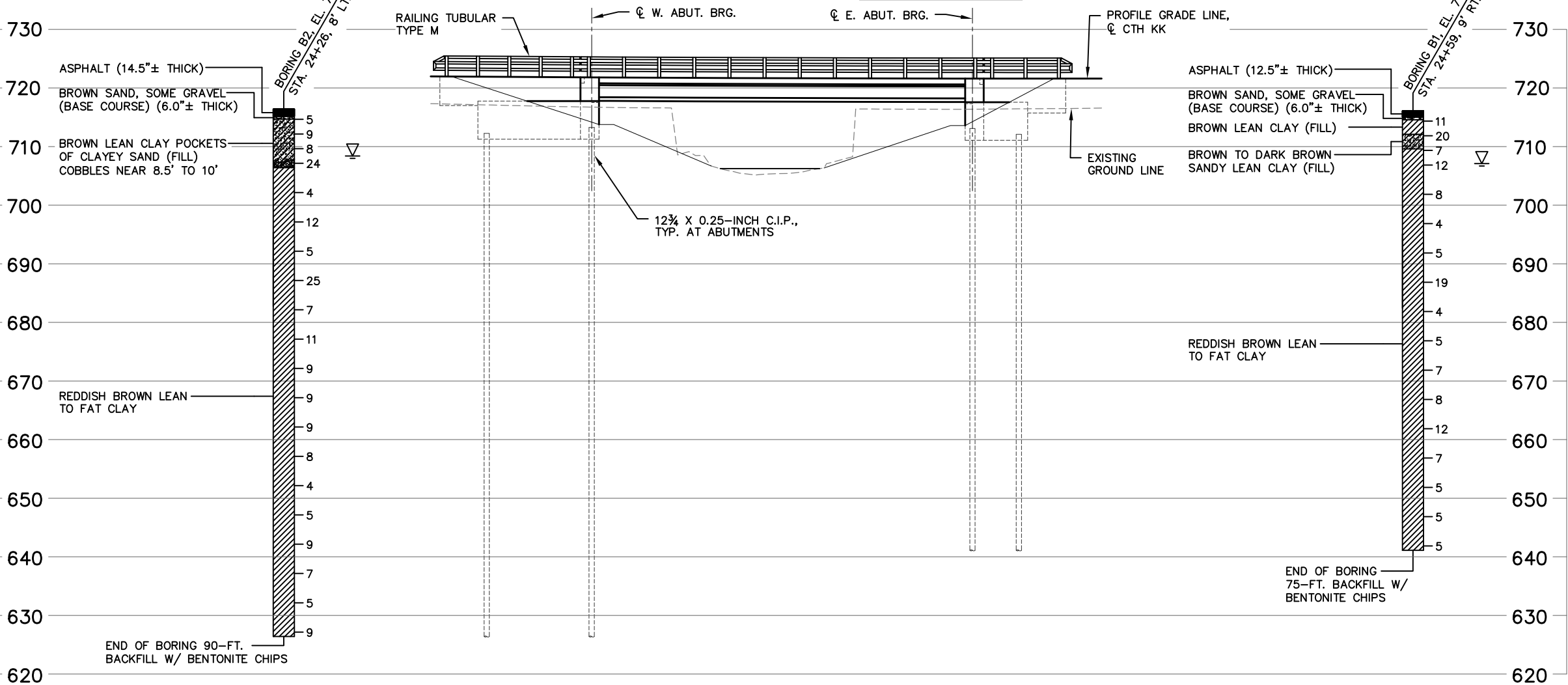
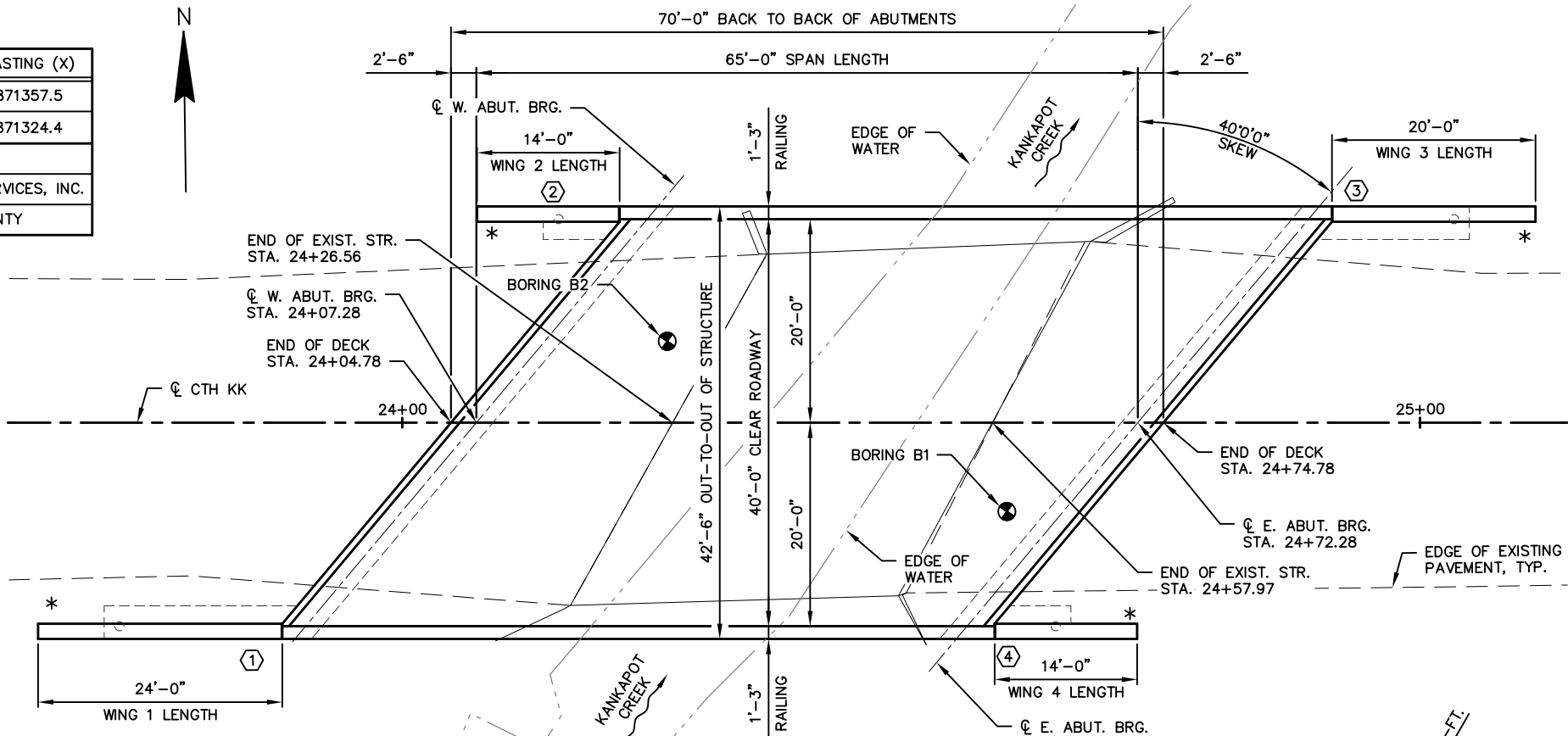
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-44-500			
DRAWN BY CDS		PLANS CK'D	ACK
CROSS SECTION, GENERAL NOTES AND QUANTITIES			SHEET 2 OF XX

B-44-500 BORINGS

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
BORING B1	3/17/2021	555348.6	871357.5
BORING B2	3/18/2021	555365.8	871324.4
BORINGS COMPLETED BY: NUMMELIN TESTING SERVICES, INC.			
SUBSURFACE INVESTIGATION REPORT: NUMMELIN TESTING SERVICES, INC.			
ALL COORDINATES REFERENCED TO WISCRS, OUTAGAMIE COUNTY			

NOTES

- ⬡ INDICATES WING NUMBER
* LOCATION OF BEAM GUARD ATTACHMENT



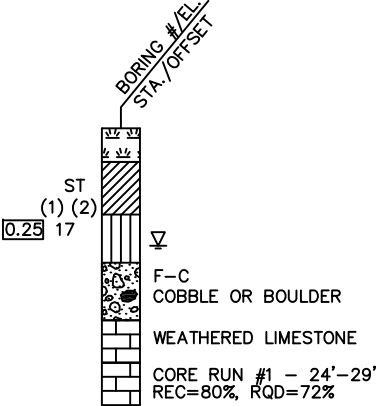
STATE PROJECT NUMBER

4494-07-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META

LEGEND OF BORING



- (1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
(2) UNLESS OTHERWISE SPECIFIED, THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
▼ END OF DRILLING
▽ AFTER DRILLING

ABBREVIATIONS

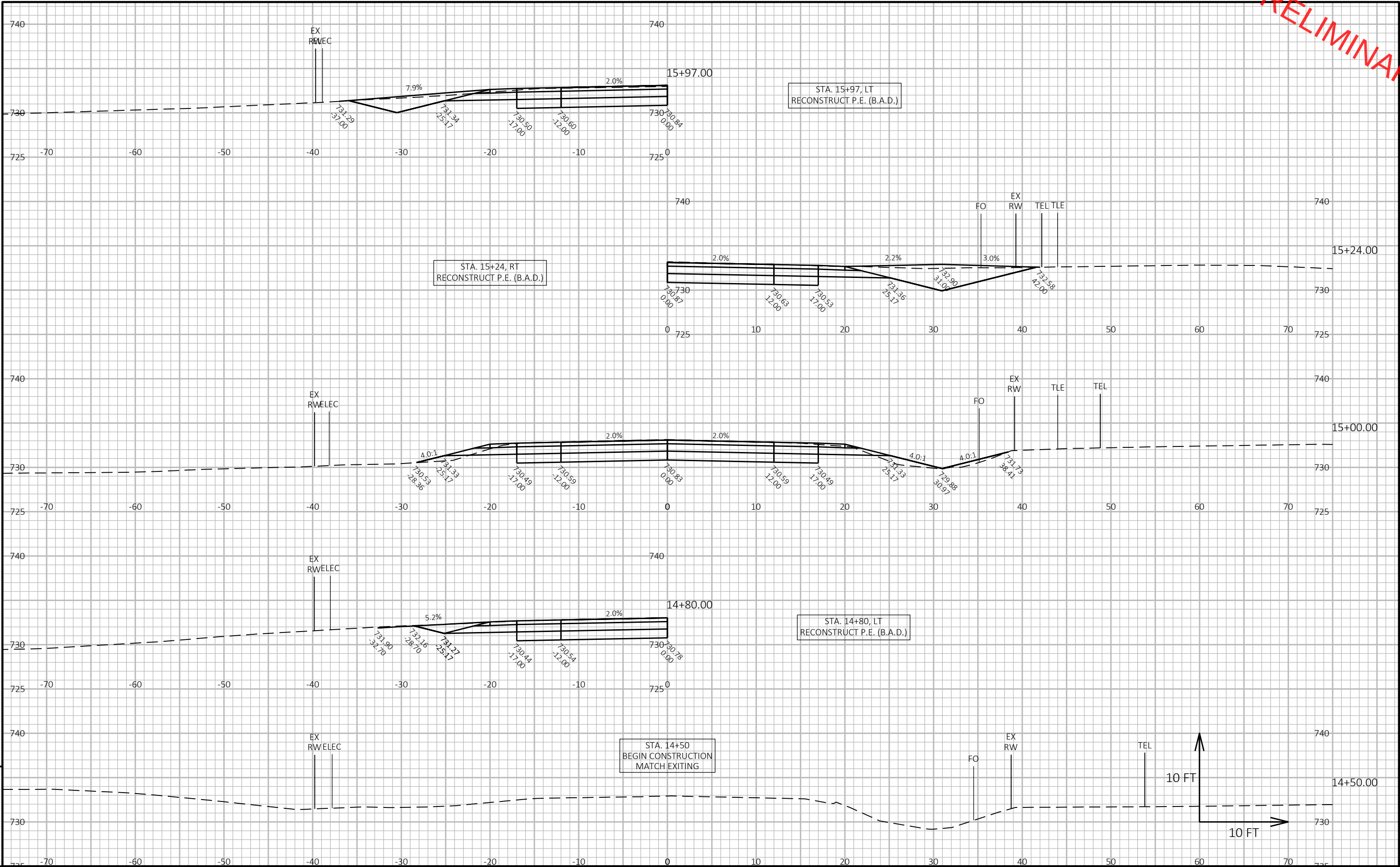
F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

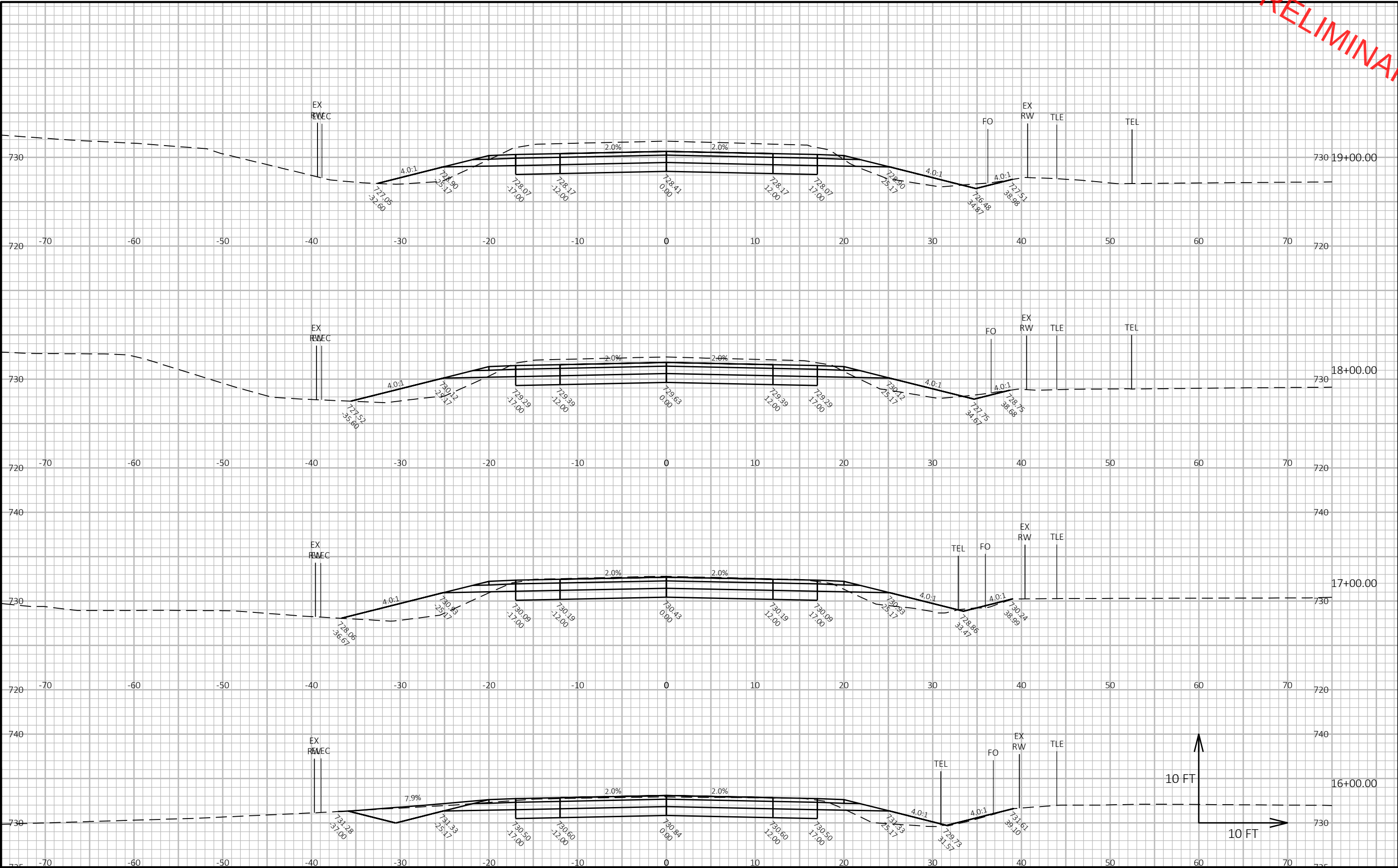
BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-44-500			
DRAWN BY CDS		PLANS CK'D ACK	
SUBSURFACE EXPLORATION		SHEET 3 OF XX	

PRELIMINARY



PRELIMINARY

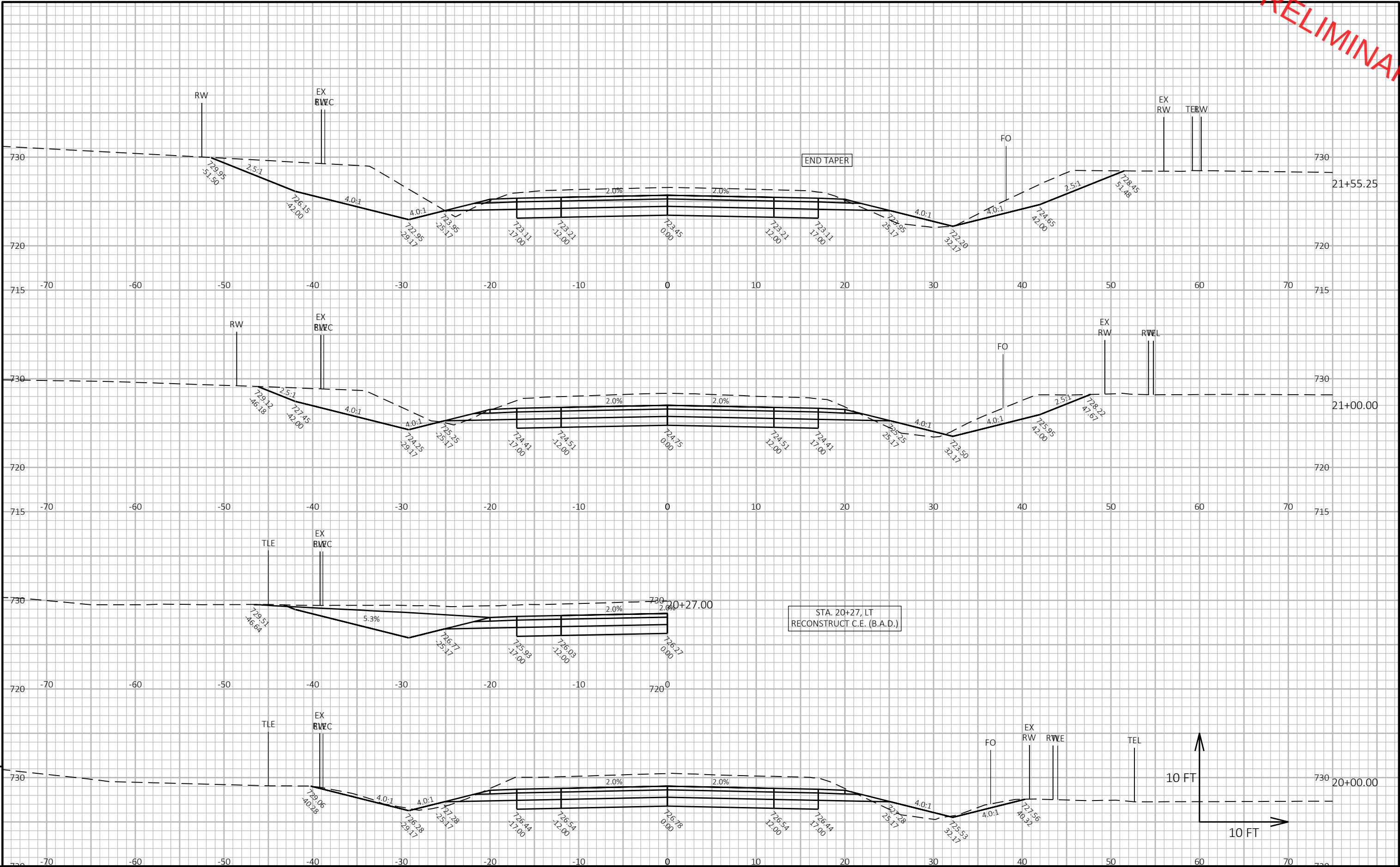


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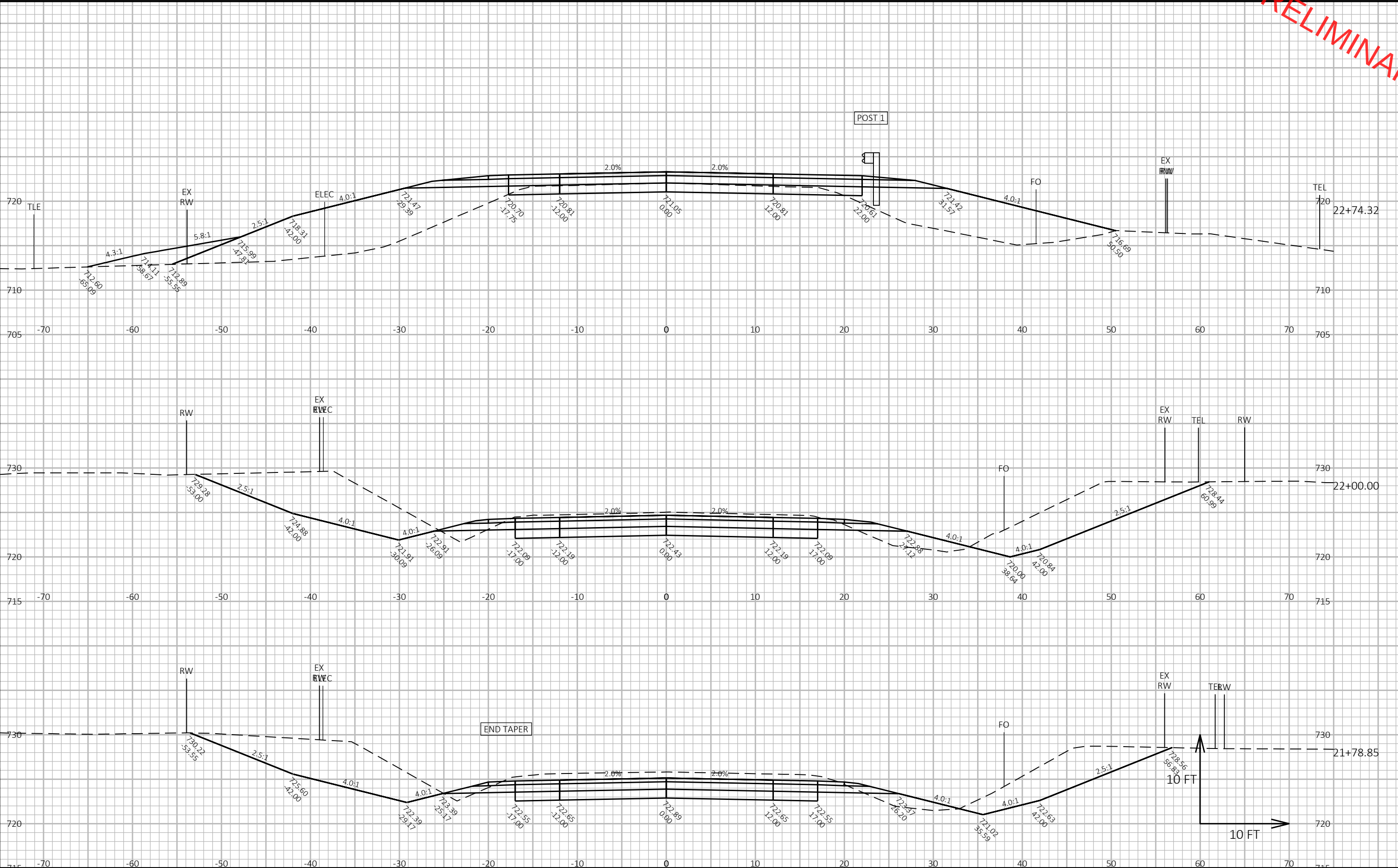
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PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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PRELIMINARY



PRELIMINARY

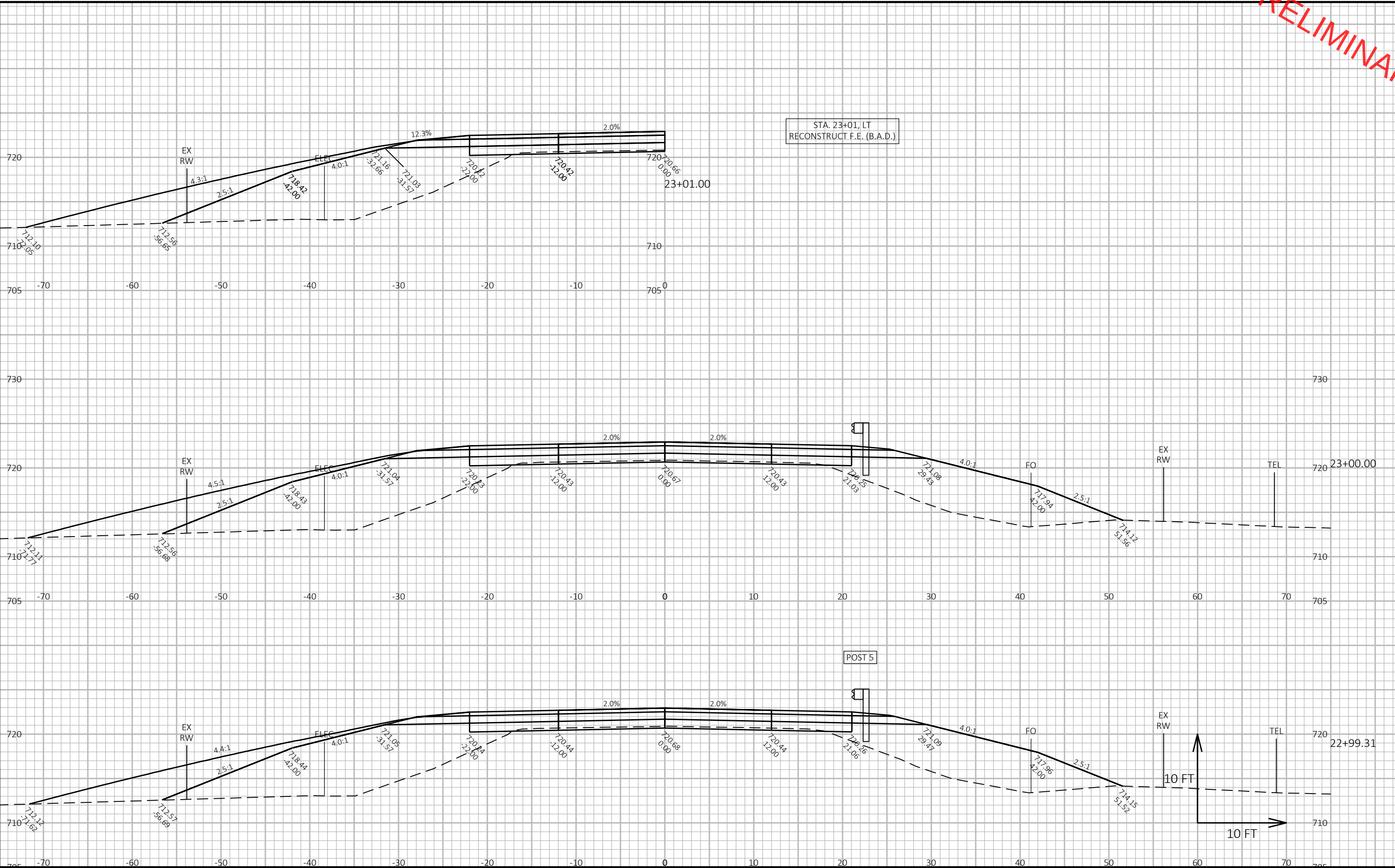


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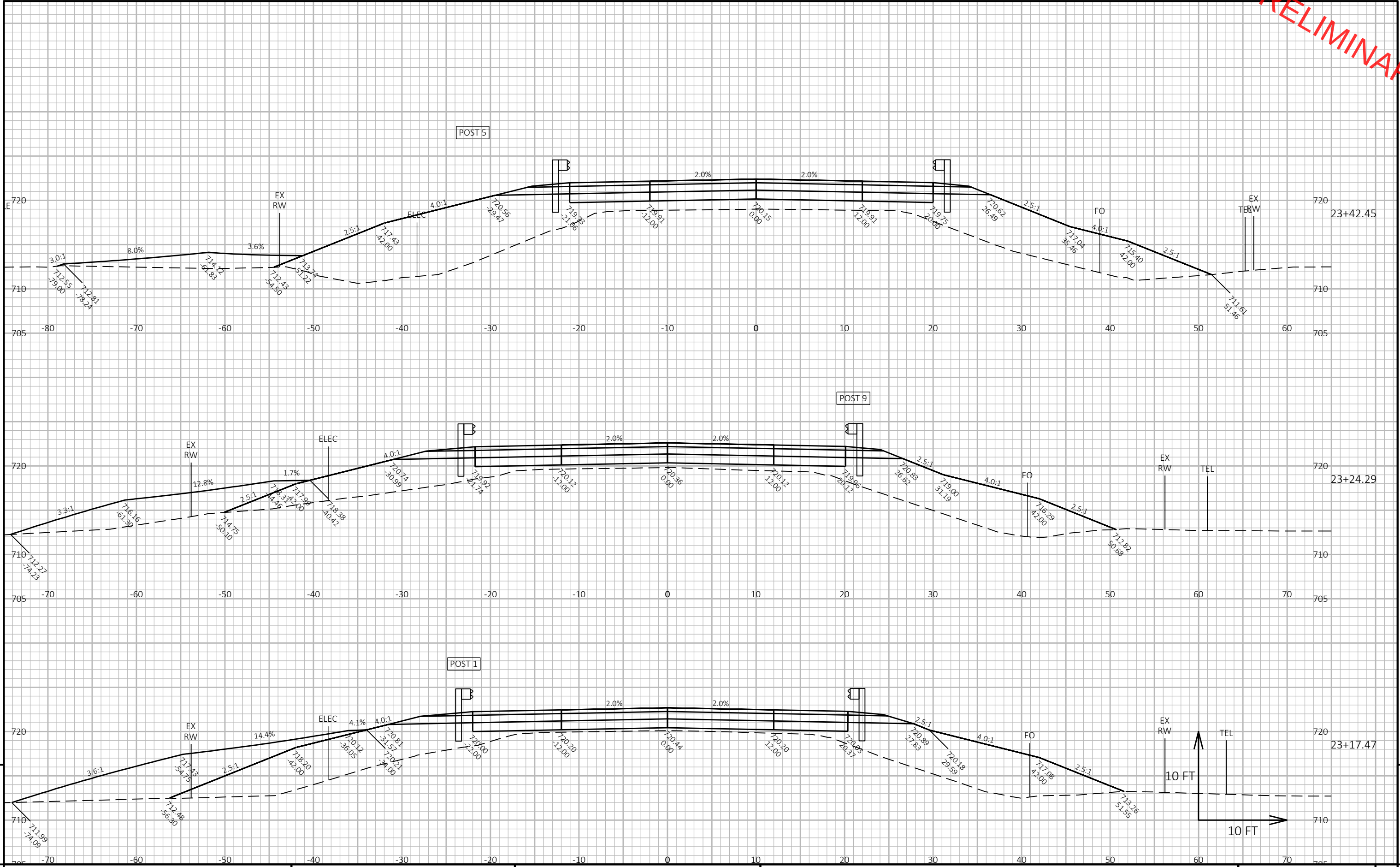
PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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PRELIMINARY

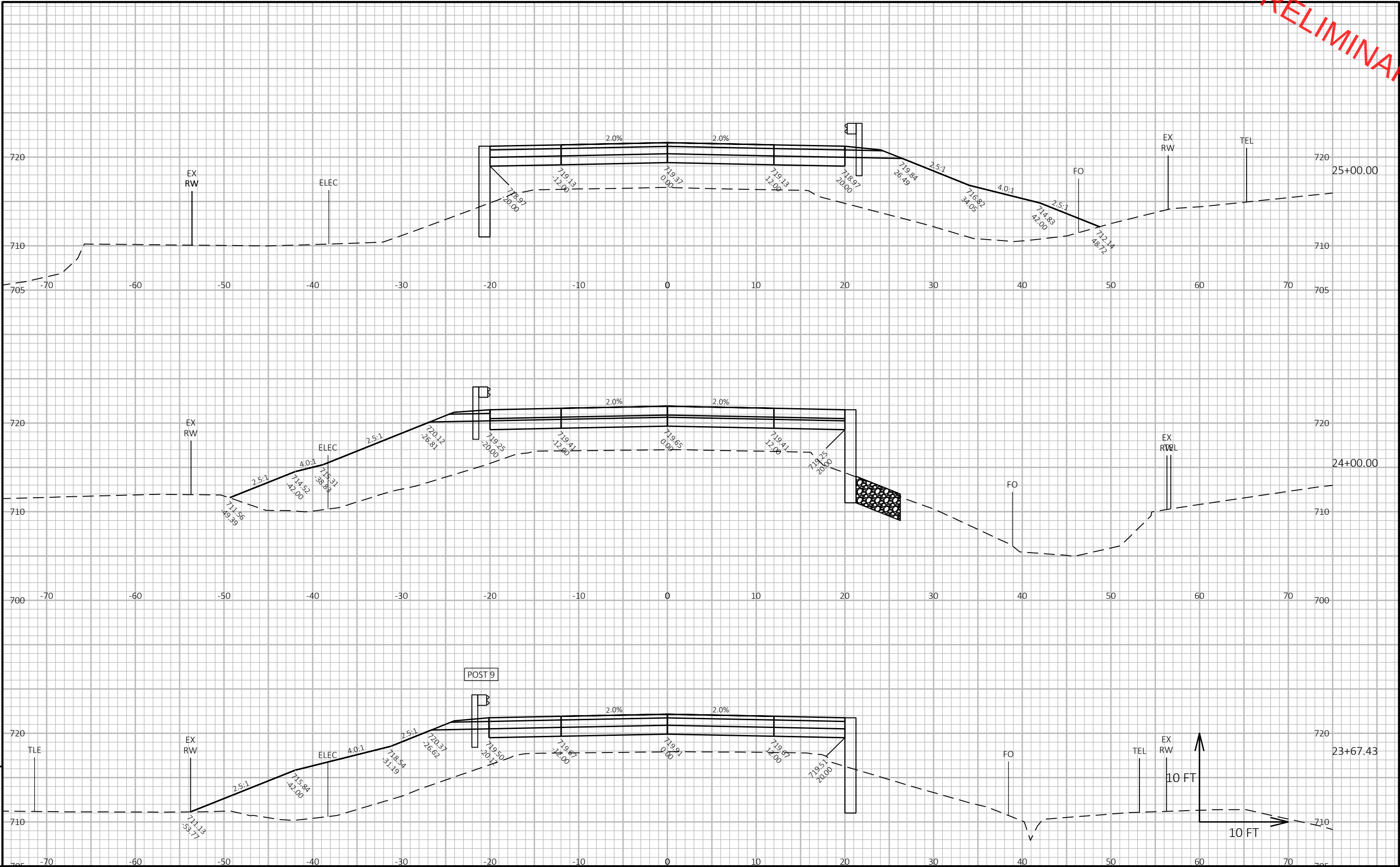


PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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PRELIMINARY

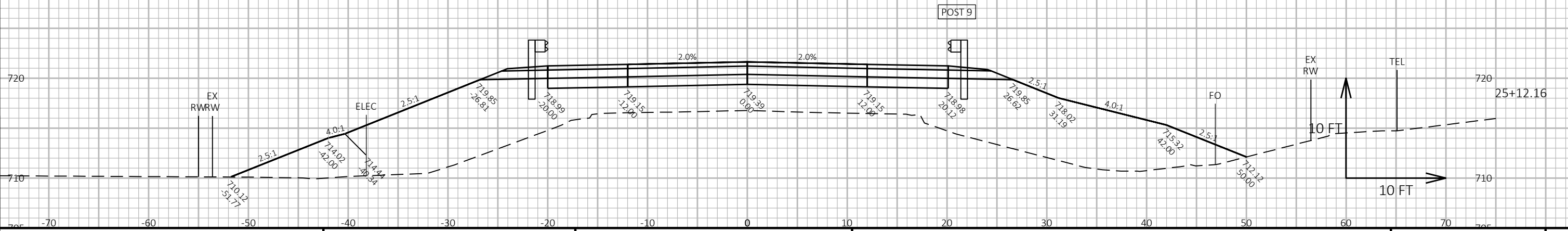
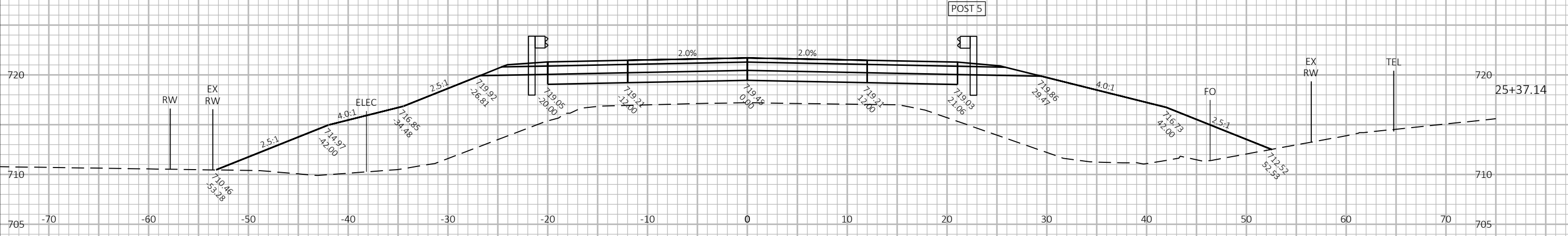
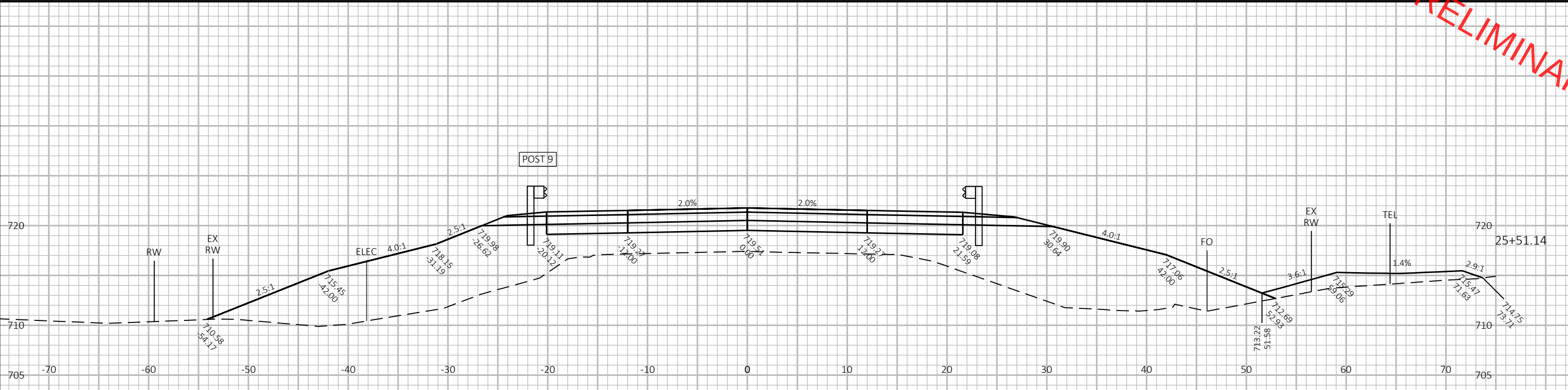


PRELIMINARY



PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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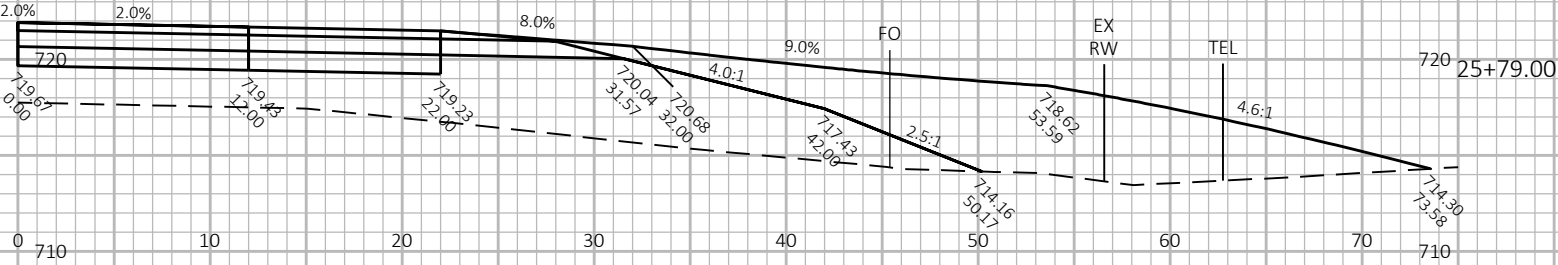
PRELIMINARY



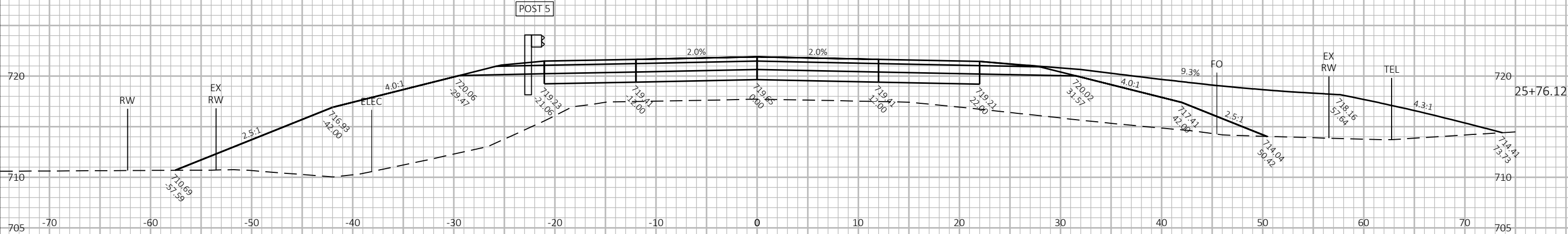
PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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PRELIMINARY

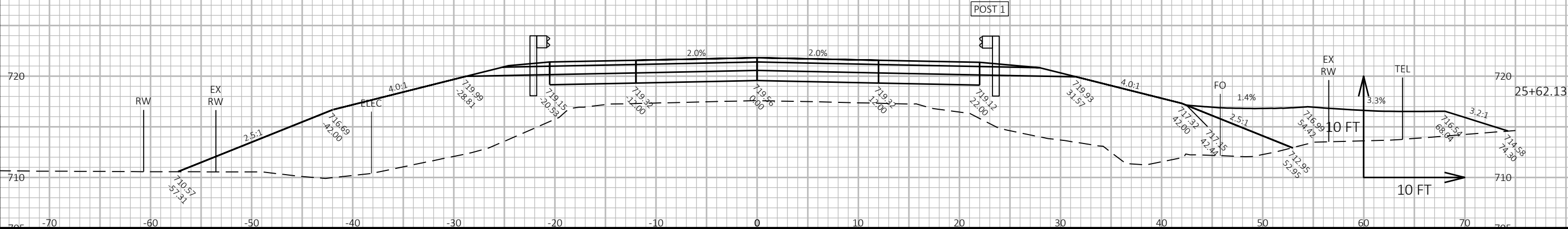
STA. 25+79, RT
RECONSTRUCT F.E. (B.A.D.)



POST 5

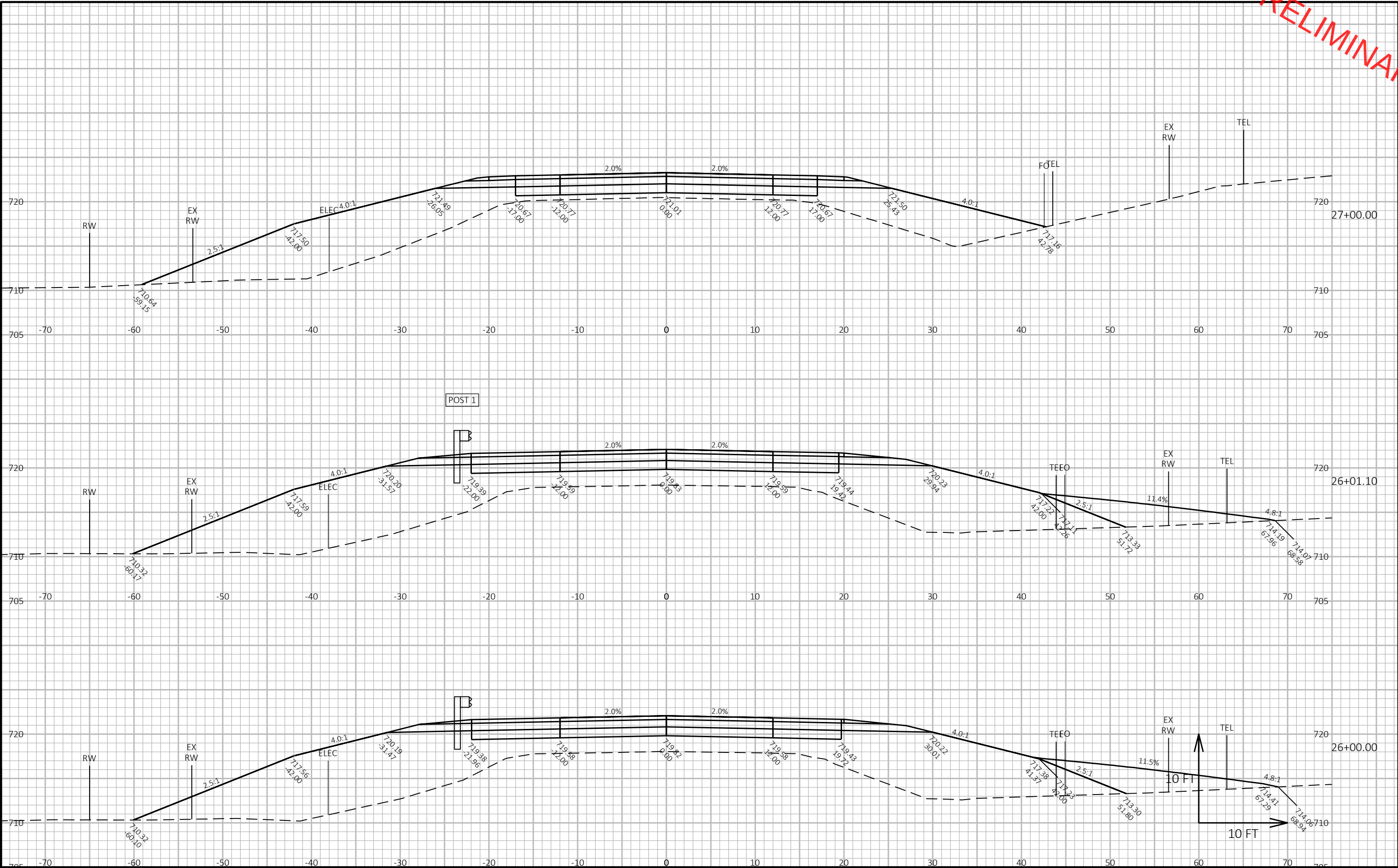


POST 1



PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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PRELIMINARY

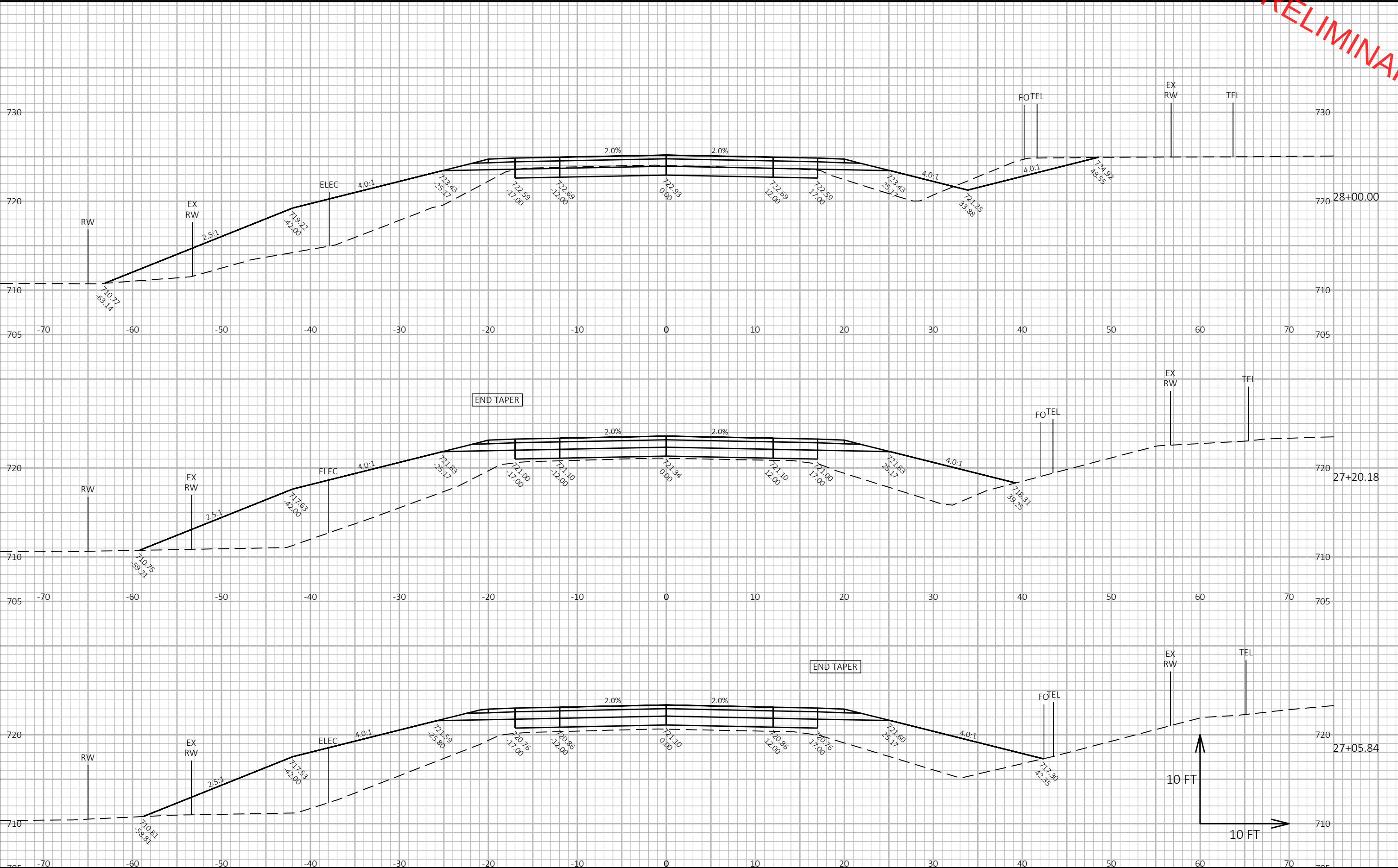


9

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PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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PRELIMINARY

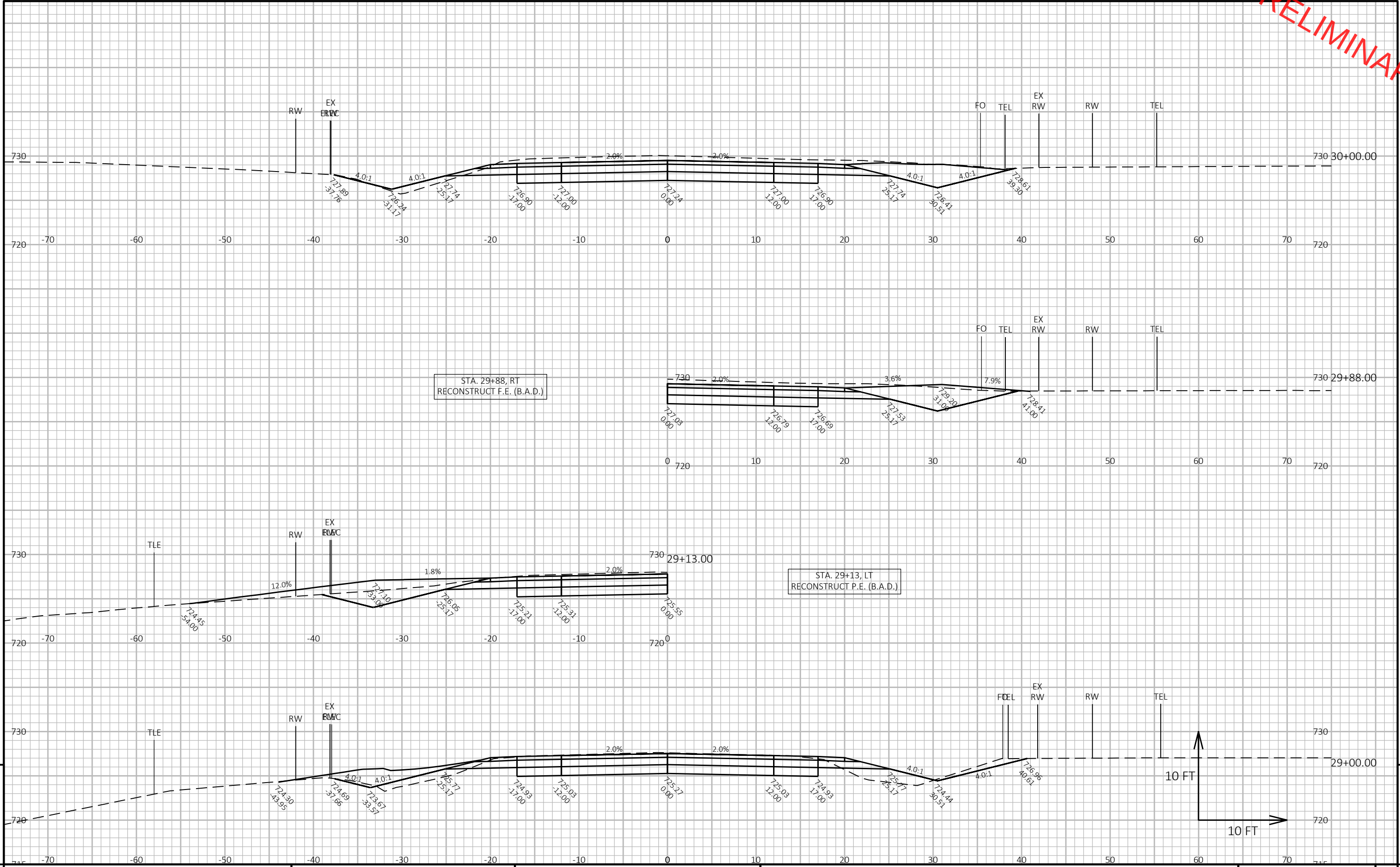


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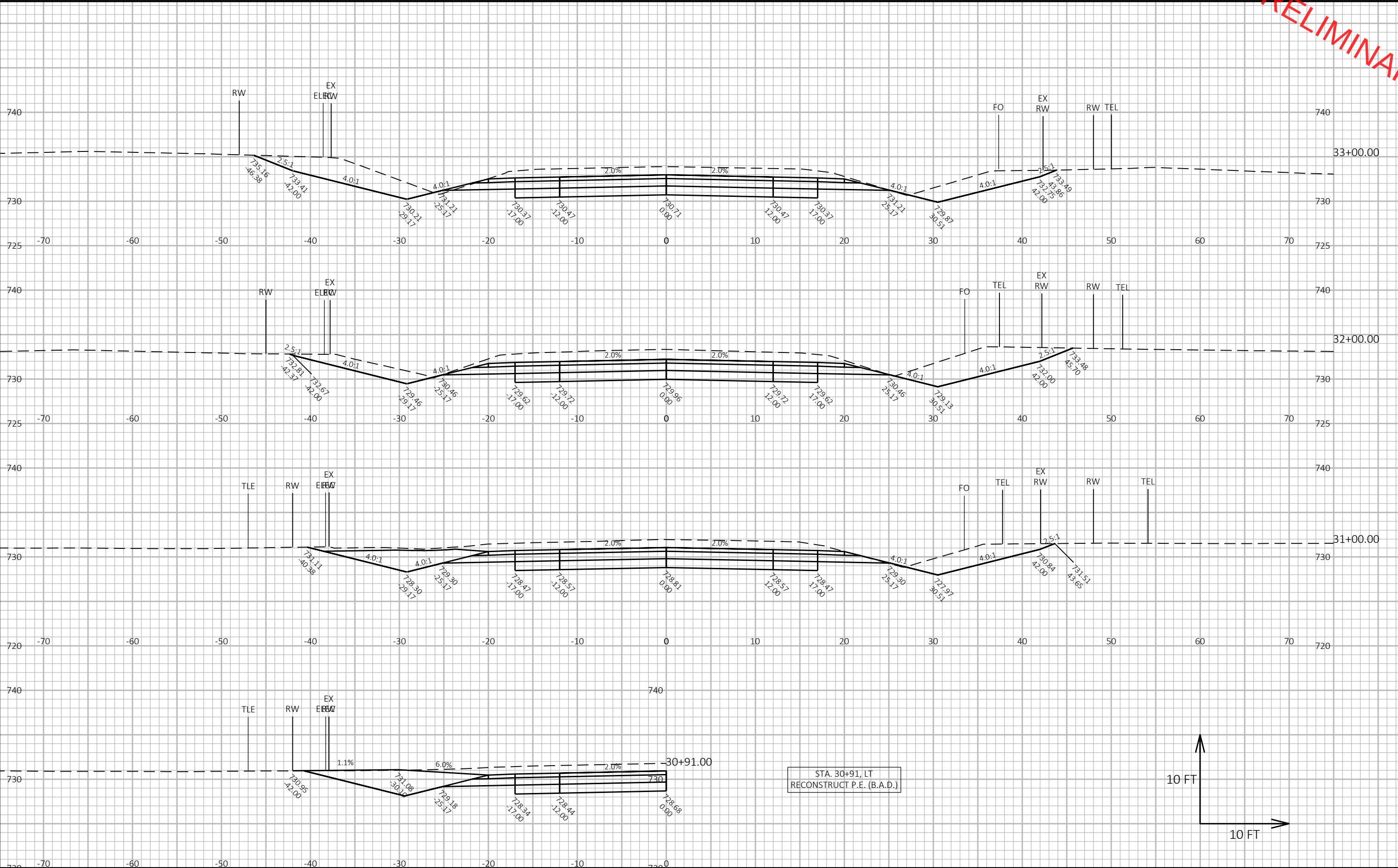
PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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PRELIMINARY



PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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PRELIMINARY



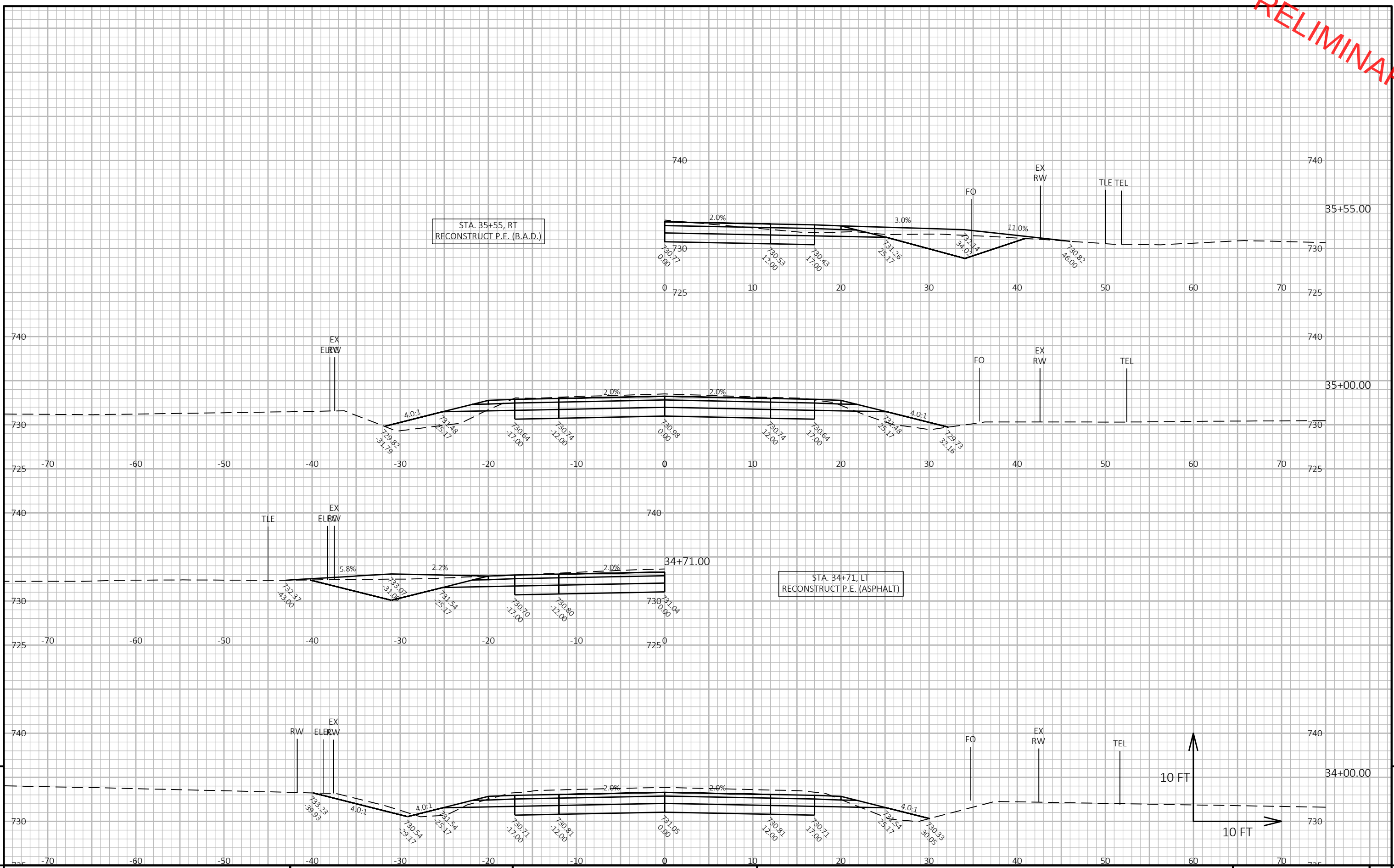
PRELIMINARY

STA. 35+55, RT
RECONSTRUCT P.E. (B.A.D.)

STA. 34+71, LT
RECONSTRUCT P.E. (ASPHALT)

9

9



PROJECT NO: 4494-07-71	HWY: CTH KK	COUNTY: OUTAGAMIE	CROSS SECTIONS:	SHEET	E
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