

LAX
PROJECT ID:
WITH: N/A

5808-00-73

COUNTY:

JUNEAU

AUGUST 2021

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 = 160

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

REEDSBURG - LYNDON STATION

SAUK COUNTY LINE TO CTH J

CTH HH

JUNEAU

STATE PROJECT NUMBER
5808-00-73

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5808-00-73	WISC 2021438	1



PROJECT LOCATION

10

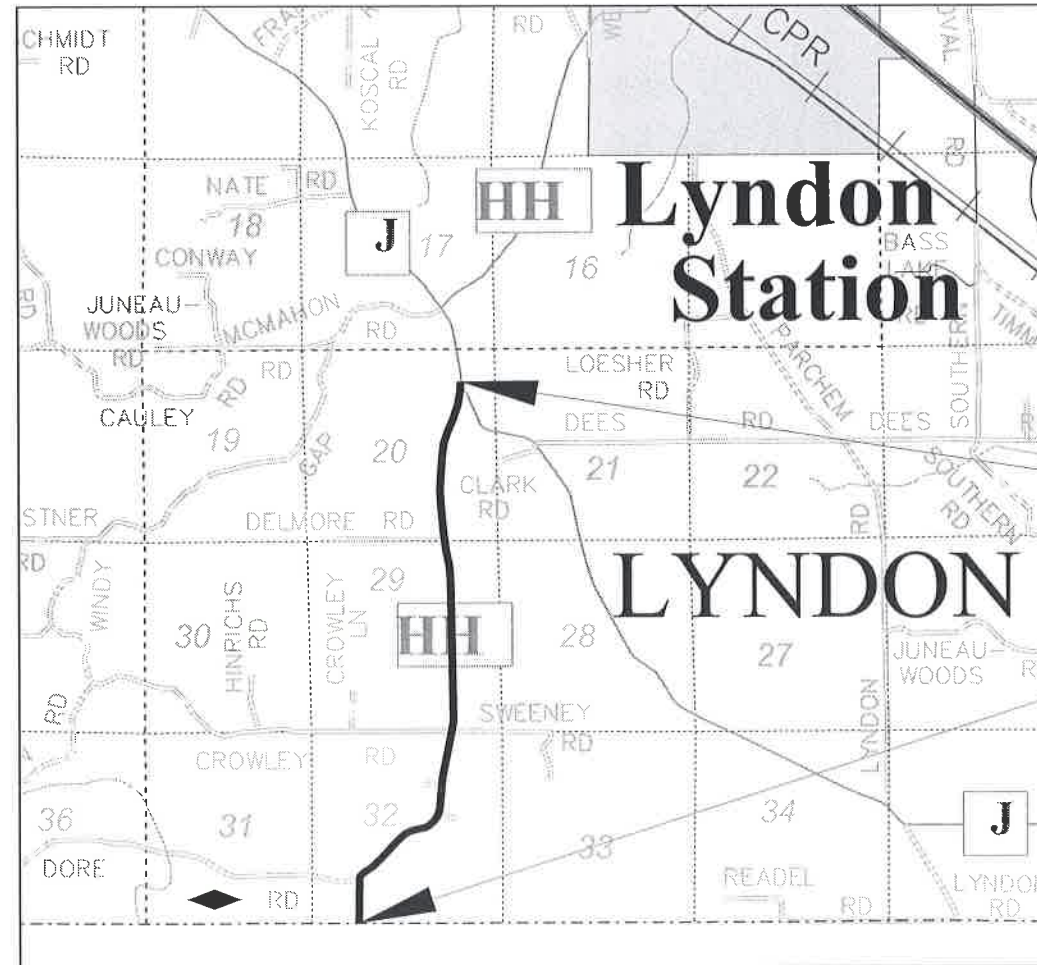
DESIGN DESIGNATION

A.A.D.T.	2018	=	750
A.A.D.T.	2038	=	960
D.H.V.		=	98
D.D.		=	60/40
T.		=	12.5%
DESIGN SPEED		=	55 MPH
ESALS		=	220,000

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	



T-14-N

END PROJECT
STA 171+50.74
X = 503,685.71
Y = 115,000.60

BEGIN PROJECT
STA 10+00.00
X = 500,845.53
Y = 100,084.75

JUNEAU COUNTY
SAUK COUNTY



TOTAL NET LENGTH OF CENTERLINE = 3.059 MILES

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

ACCEPTED FOR
JUNEAU COUNTY

(SIGNATURE)
DATE: 3-29-21
Commissioner
TITLE OF OFFICIAL

ORIGINAL PLANS PREPARED BY



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	MSA PROFESSIONAL SERVICES
Surveyor	MSA PROFESSIONAL SERVICES
Designer	MSA PROFESSIONAL SERVICES
Regional Examiner	TRAVIS BURDS, P.E.
Regional Supervisor	OSCAR I. WINGER, P.E.

E

MISCELLANEOUS

GENERAL NOTES

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.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE U.S.G.S DATUM NAVD 88 (1991)

REMOVALS

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

PAVEMENT REMOVAL WILL BE TO THE NEAREST JOINT OR A SAWED EDGE WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.

GRADING AND EROSION CONTROL

NO EQUIPMENT OR MATERIALS SHALL BE STORED OR IMPACT ANY WETLANDS OR WATERWAYS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, ARE TO BE FERTILIZED, PERMANENT SEEDED OR TEMPORARILY SEEDED AND MULCHED OR EMATTED PLACED AS DIRECTED BY THE ENGINEER.

EXCAVATION BELOW SUBGRADE (EBS) WHICH IS NOT INDICATED ON THE CROSS SECTIONS AND WHICH IS REQUIRED BY THE ENGINEER SHALL BE MEASURED AND PAID FOR AS COMMON EXCAVATION. EBS IS NOT USED TO BALANCE YARDAGE.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER WILL DETERMINE THE EXACT LOCATION OF EROSION CONTROL ITEMS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. REMOVE ITEMS AT THE ENGINEER'S DIRECTION.

FILL EXPANSION IS ESTIMATED AT 1.25.

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATION SECTIONS EQUALS SUPERELEVATION WHEN SUPERELEVATION IS GREATER THAN 4.00%. IF SUPERELEVATION IS LESS THAN OR EQUAL TO 4.00%, THEN THE LOW SIDE SHOULDER SLOPE IS 4.00%. HIGH SIDE SHOULDER SLOPE ON SUPERELEVATION SECTIONS EQUALS SUPERELEVATION.

WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS.

PERSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH A LANDMARK MAY EXIST.

PAVING

HMA WEIGHT CALCULATIONS BASED ON 112 LBS/SY/IN.

THE CONTRACTOR'S 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.

UNLESS OTHERWISE SHOWN ON THE PLAN, SAWCUT ALL MATCHING DRIVEWAYS AND STREETS. COST OF CUTTING IS TO BE PAID FOR UNDER "SAWING ASPHALT" FOR ASPHALT PAVEMENT.

THE EXACT LOCATION OF PRIVATE AND FIELD ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

PRIVATE ENTRANCES, FIELD ENTRANCES, AND SIDE ROADS SHALL BE RESTORED IN KIND TO EXISTING CONDITIONS OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION LIMITS ON PRIVATE ENTRANCES, FIELD ENTRANCES, AND SIDE ROADS WILL BE DETERMINED BY THE ENGINEER.

STANDARD ABBREVIATIONS

Table with 4 columns of abbreviations and their corresponding full names, including AC (ACRES), ASPHALT CEMENT, ASPHALT, etc.

ORDER OF SECTION 2 SHEETS

- GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
EROSION CONTROL
CONTROL POINTS
ALIGNMENT DIAGRAM
SUPERELEVATION DIAGRAM

UTILITIES

COMMUNICATIONS
FRONTIER COMMUNICATIONS
ATTN: JERRY MOORE
2222 W. WISCONSIN STREET
PORTAGE, WI 53901
PHONE: (608) 742-9507
EMAIL: JERALD.R.MOORE@FTR.COM

ELECTRIC
OAKDALE ELECTRIC COOPERATIVE
ATTN: TRAVIS CHAMPLIN
PO BOX 40
OAKDALE, WI 54649-0040
PHONE: (608) 372-8848
MOBILE: (608) 372-4131
EMAIL: TRAVISC@OAKDALEREC.COM

COMMUNICATIONS
CHARTER COMMUNICATIONS
ATTN: TERRY BLAKE
E10704 STATE HWY 33
BARABOO, WI 53913
PHONE: (608) 576-9208
EMAIL: TERRY.BLAKE@CHARTER.COM

* NOT A DIGGER'S HOTLINE MEMBER

DIGGERS HOTLINE logo with phone number 811 or (800)242-8511 and website www.DiggersHotline.com

JUNEAU COUNTY HIGHWAY CONTACT

JUNEAU COUNTY HIGHWAY DEPARTMENT
ATTN: TRAVIS SCHULTZ, HIGHWAY COMMISSIONER
930 EAST STATE STREET
MAUSTON, WI 53948
PHONE: (608) 847-9543
EMAIL: TSCHULTZ@CO.JUNEAU.WI.US

DNR LIASON

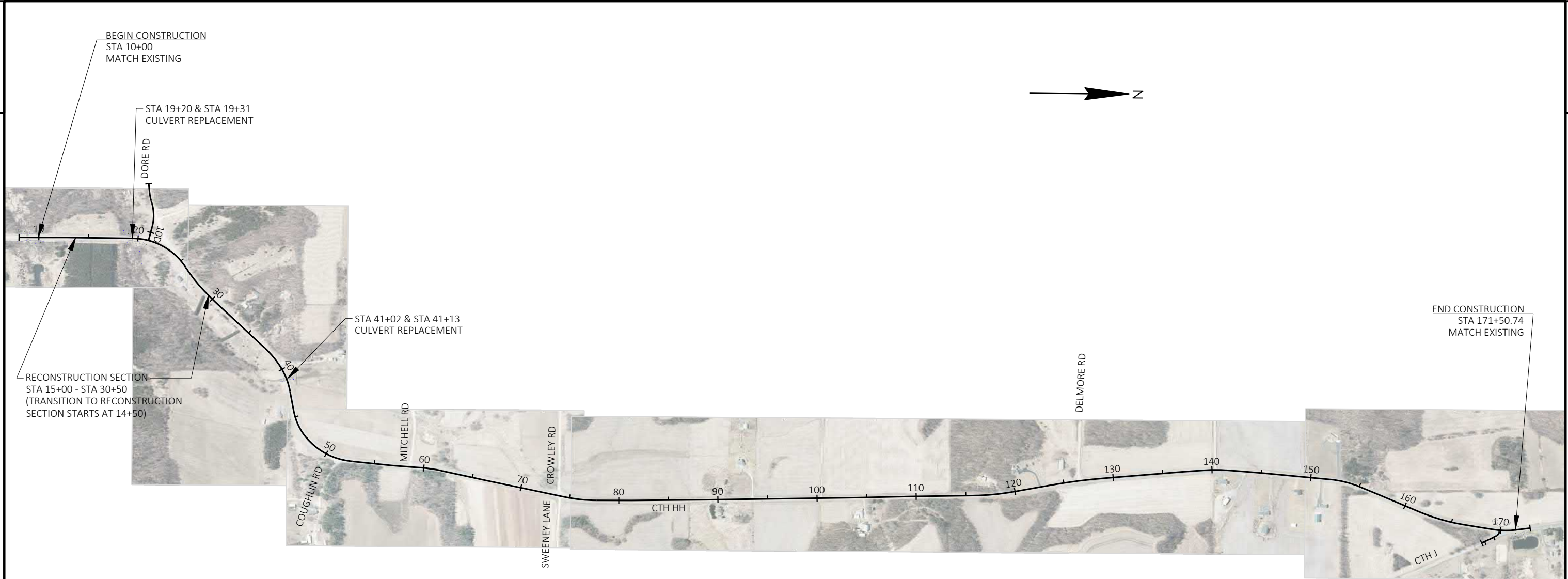
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ATTN: KAREN KALVELAGE
WISCONSIN DNR, WEST CENTRAL REGION
3550 MORMON COULEE RD
LA CROSSE, WI 54601
PHONE: (608) 785-9115
EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

MSA DESIGN CONTACT

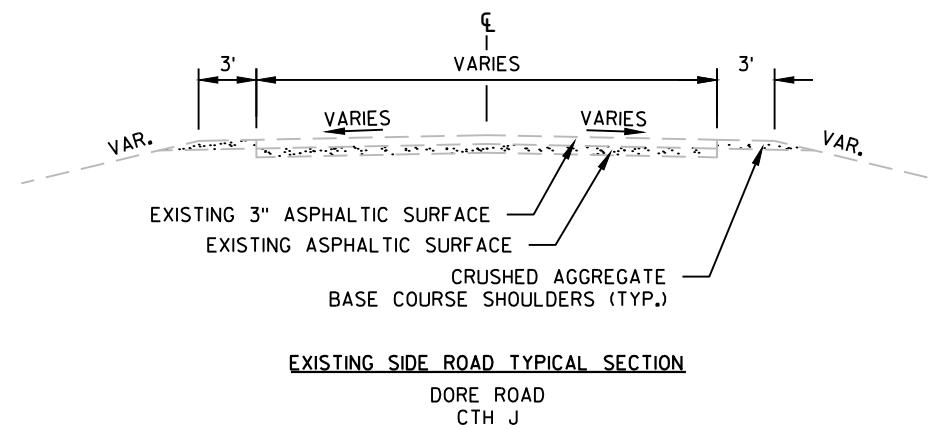
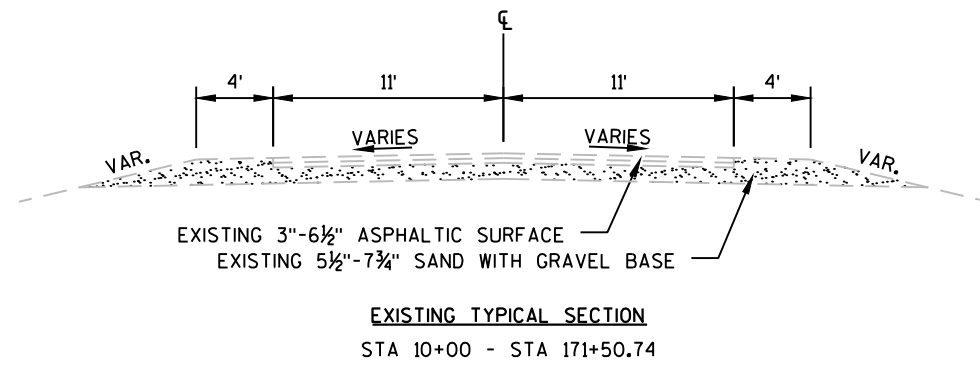
MSA PROFESSIONAL SERVICES, INC
ATTN: BOBBI MAXWELL, PE
1230 SOUTH BOULEVARD
BARABOO, WI 53913
PHONE: (608) 355-8861
EMAIL: BMAXWELL@MSA-PS.COM

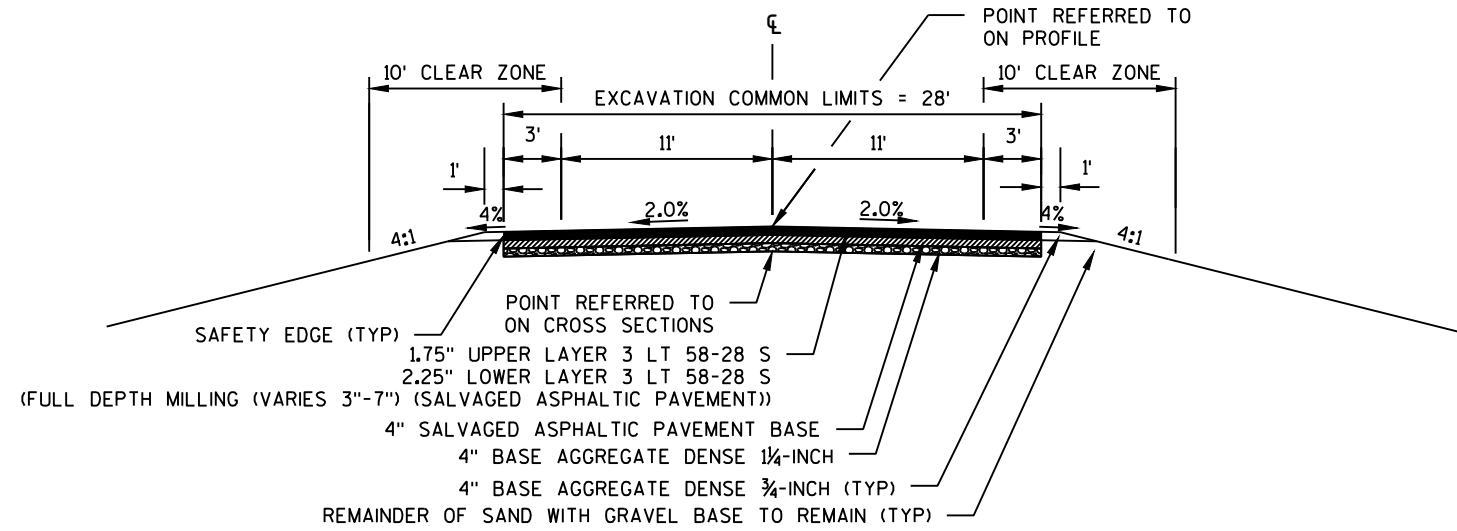
ROADWAY SOIL BORING SUMMARY

Table with 5 columns: BORING, STATION, OFFSET, ASPHALT, SANDY BASE. Contains data for borings 1 through 9.



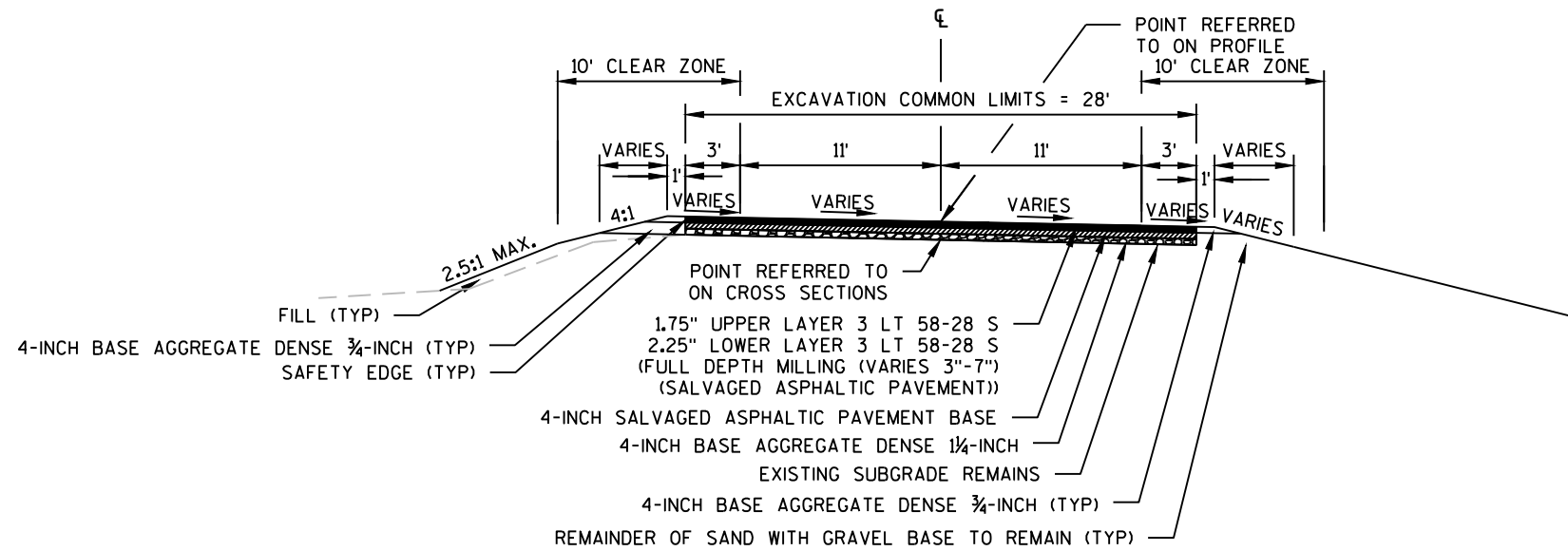
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PROJECT OVERVIEW	SHEET	E
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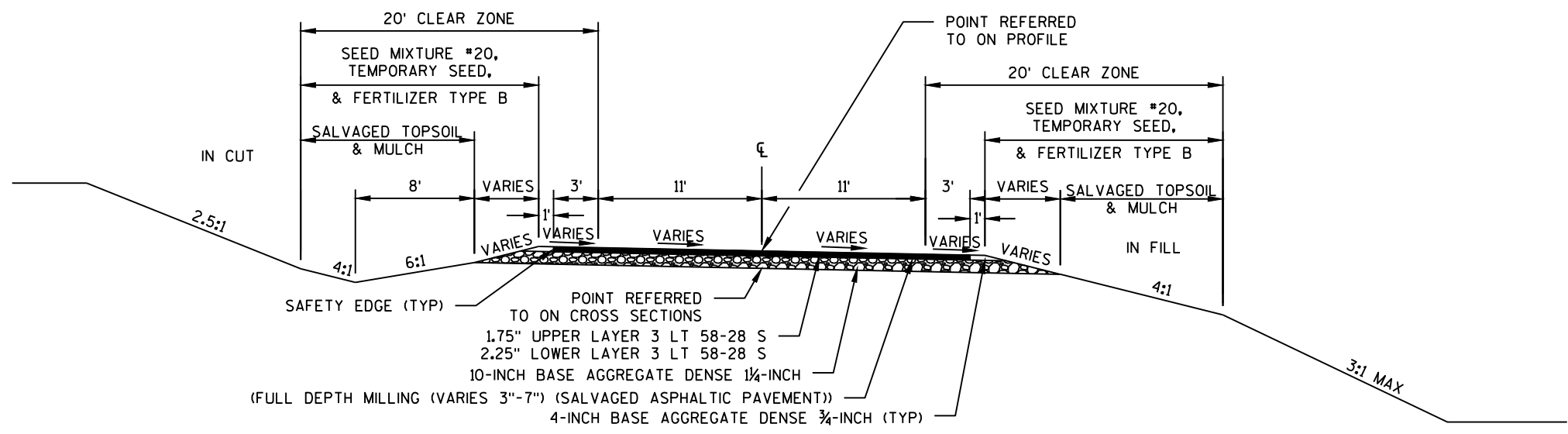
FINISHED TYPICAL PAVEMENT REPLACEMENT SECTION

- STA 10+00.00 - STA 15+00.00
- STA 30+71.69 - STA 35+79.16
- STA 54+22.19 - STA 58+26.47
- STA 63+24.43 - STA 76+10.44
- STA 79+21.17 - STA 114+57.55
- STA 121+01.18 - STA 122+81.03
- STA 130+12.08 - STA 137+86.57
- STA 142+90.95 - STA 150+53.95
- STA 156+44.63 - STA 160+15.45
- STA 167+52.64 - STA 168+16.28

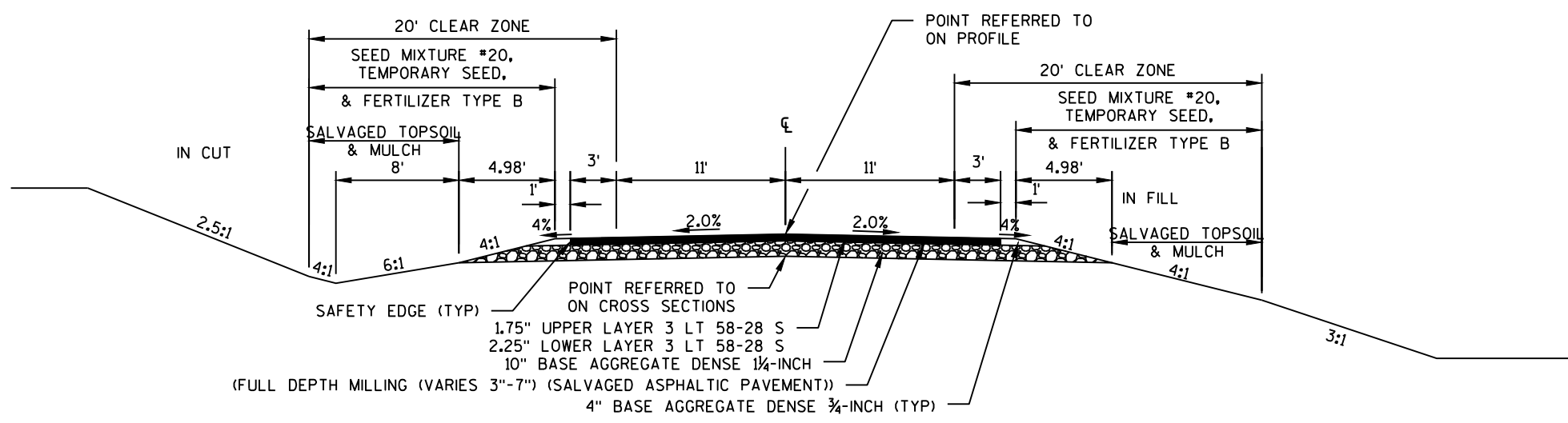


FINISHED TYPICAL SUPERELEVATED PAVEMENT REPLACEMENT SECTION

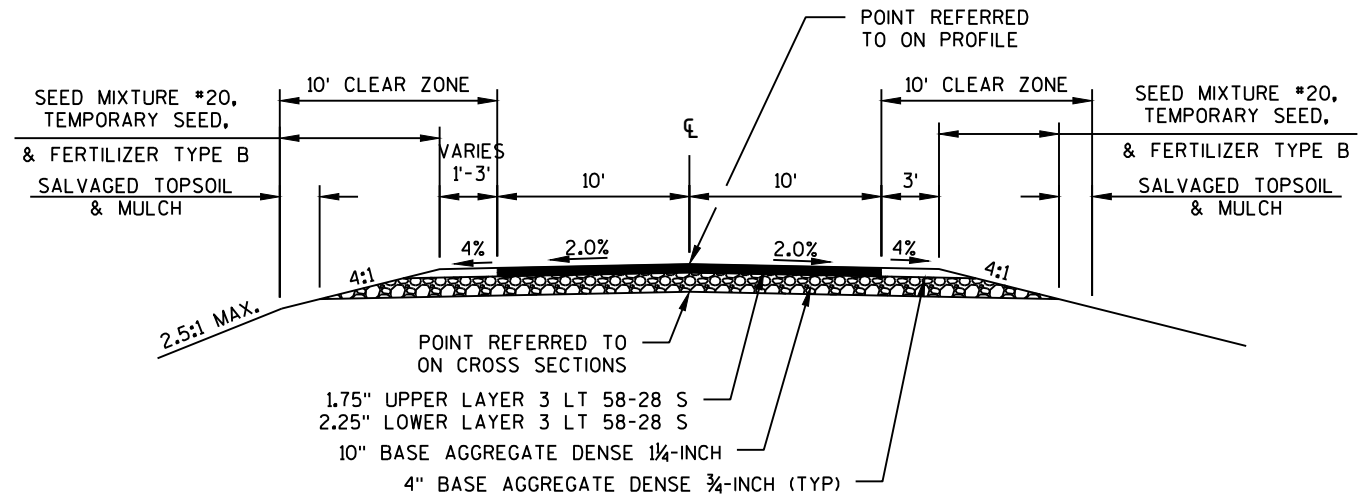
- STA 30+50.00 - STA 30+71.69
- STA 35+79.16 - STA 40+00.00
- STA 42+00.00 - STA 54+22.19
- STA 58+26.47 - STA 63+24.43
- STA 73+10.44 - STA 79+21.17
- STA 114+57.55 - STA 121+01.18
- STA 122+81.03 - STA 130+12.08
- STA 137+86.57 - STA 142+90.95
- STA 150+53.95 - STA 156+44.63
- STA 160+15.45 - STA 167+52.64
- STA 168+16.28 - STA 171+50.74



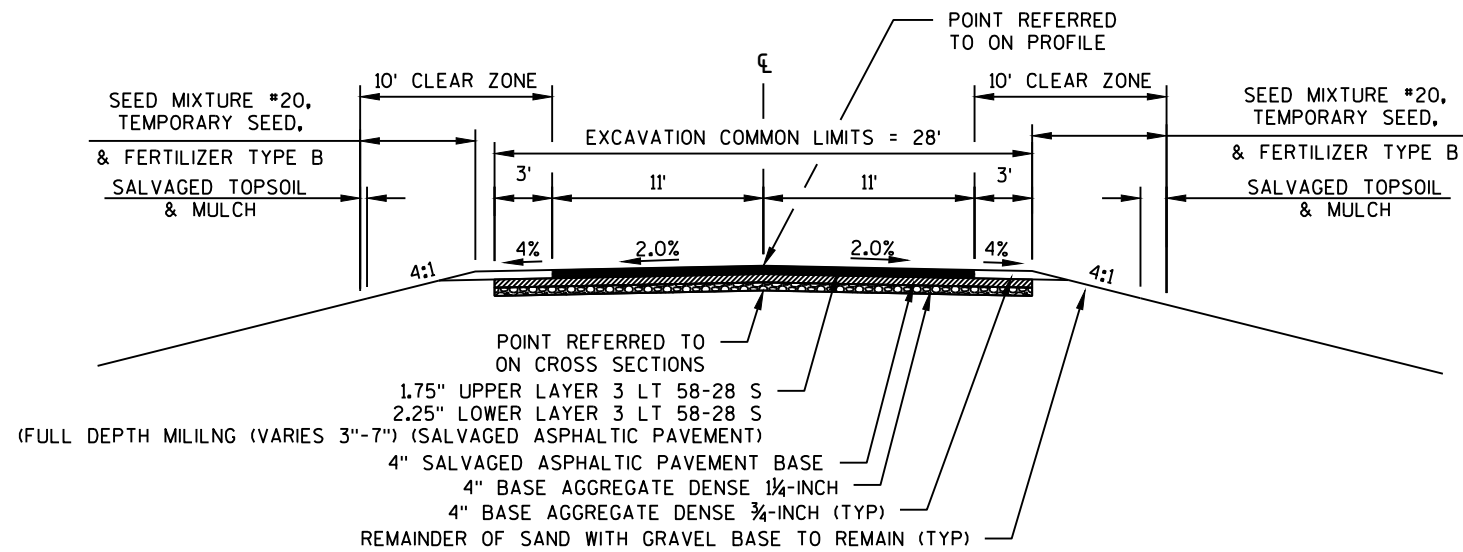
FINISHED TYPICAL SUPERELEVATED RECONSTRUCTED SECTION
 STA 18+17.76 - STA 26+00.00
 STA 29+50.00 - STA 30+50.00
 STA 40+00.00 - STA 42+00.00



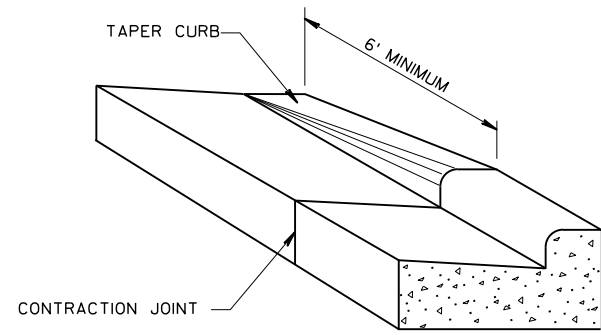
FINISHED TYPICAL RECONSTRUCTION SECTION
 STA 15+00.00 - STA 18+17.76



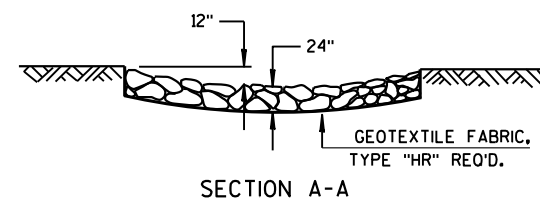
FINISHED SIDE ROAD TYPICAL SECTION
DORE ROAD



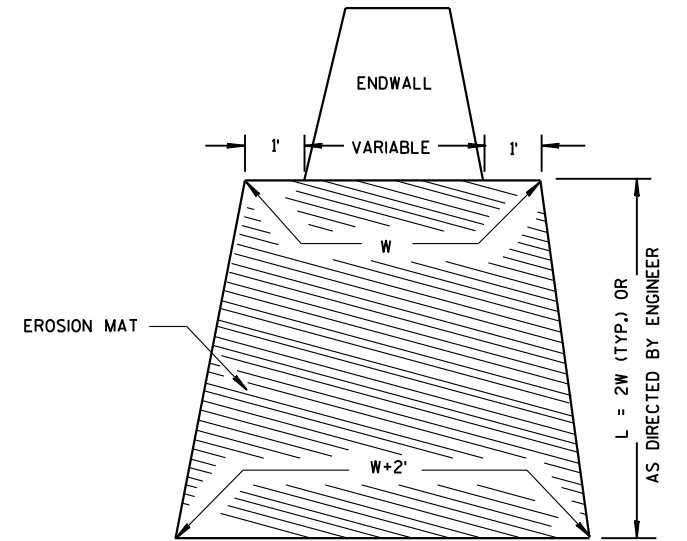
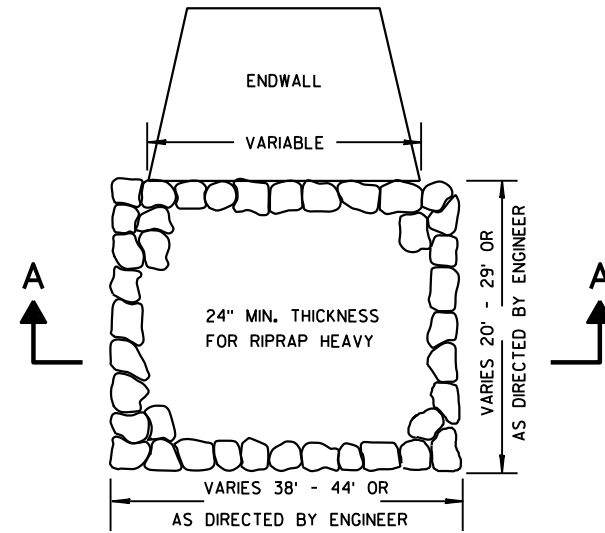
FINISHED SIDE ROAD TYPICAL SECTION
CTH J



DETAIL OF CURB & GUTTER TERMINI



RIPRAP HEAVY TREATMENT AT CULVERTS



EROSION MAT TREATMENT AT CULVERTS

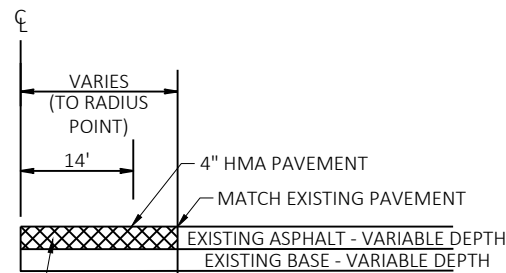
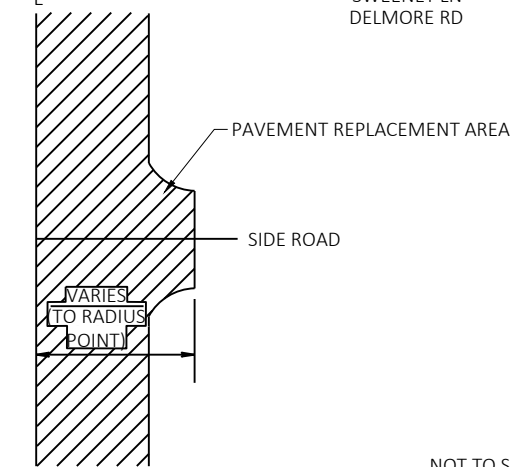
RUNOFF COEFFICIENT TABLE

	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	.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 = 27.80 ACRES
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.274 ACRES

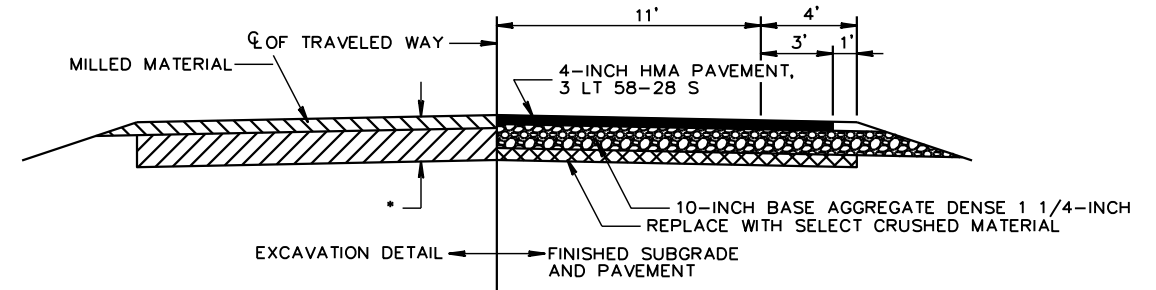
SIDE ROAD DETAIL - NO CURB & GUTTER

STH
CROWLEY RD
SWEENEY LN
DELMORE RD



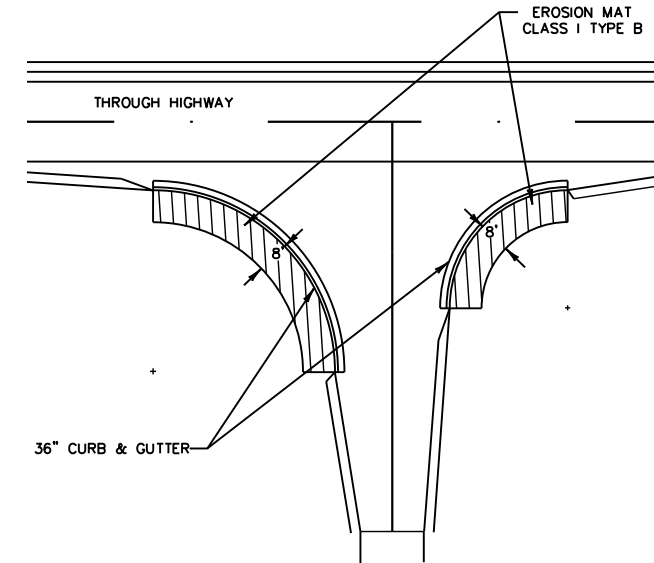
REMOVE MATERIAL UNDER ITEM 'SALVAGED ASPHALTIC PAVEMENT'.

EXISTING PAVEMENT



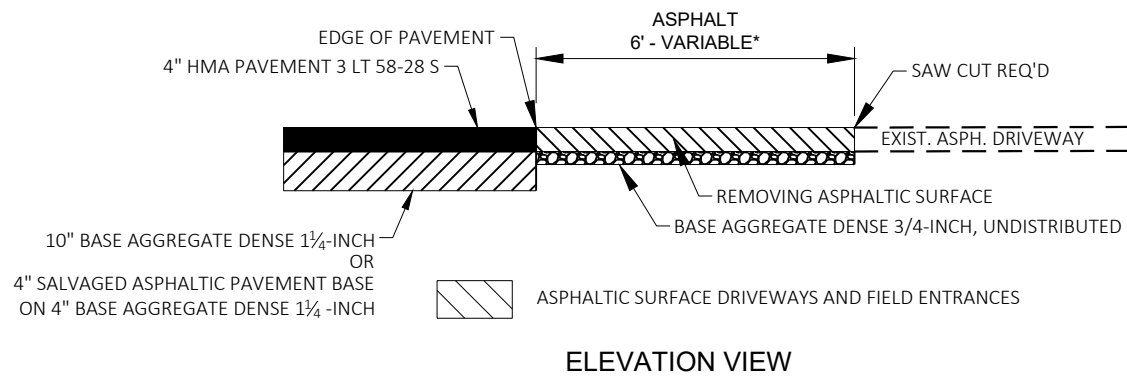
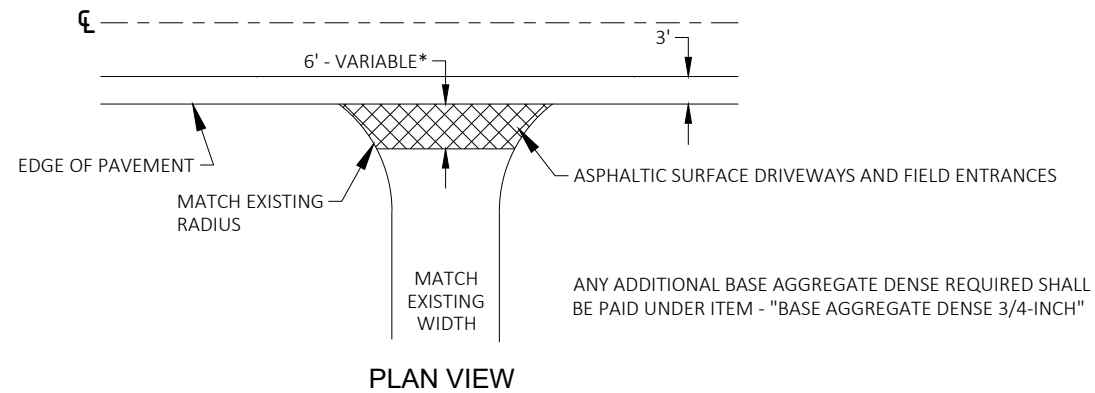
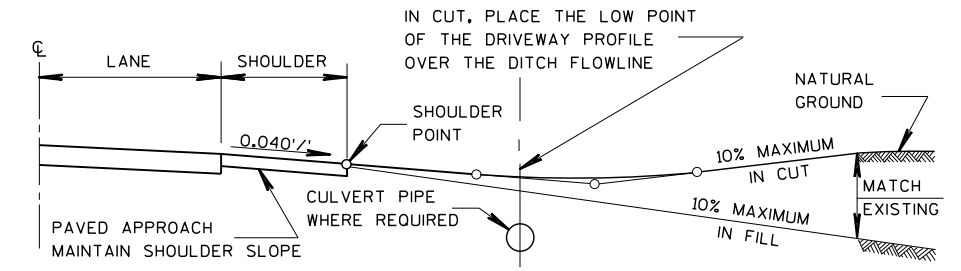
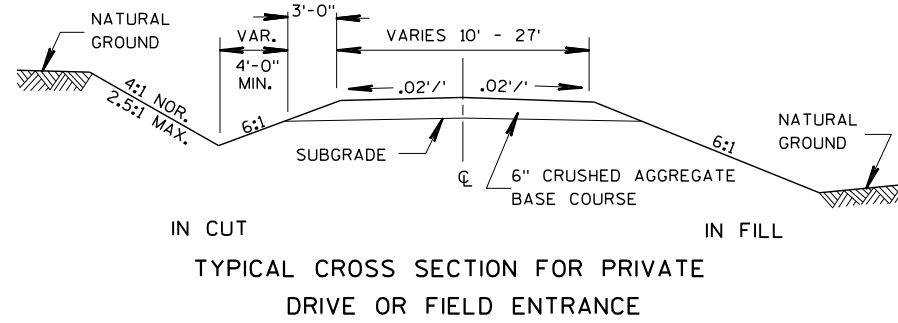
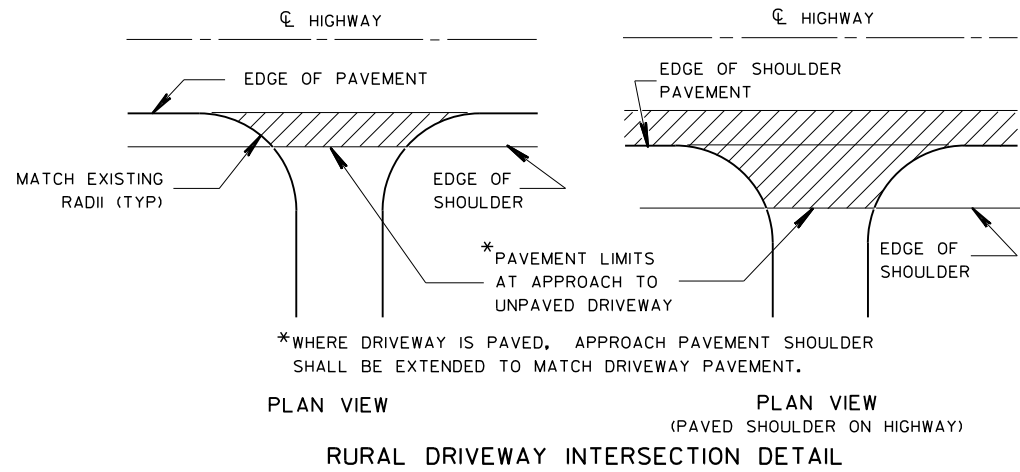
DETAIL FOR EXCAVATION BELOW SUBGRADE (EBS)

*=EBS, THICKNESS, LOCATION, & DEPTH VARIES AS DESIGNATED BY THE ENGINEER.



EROSION MAT DETAIL AT RURAL INTERSECTIONS

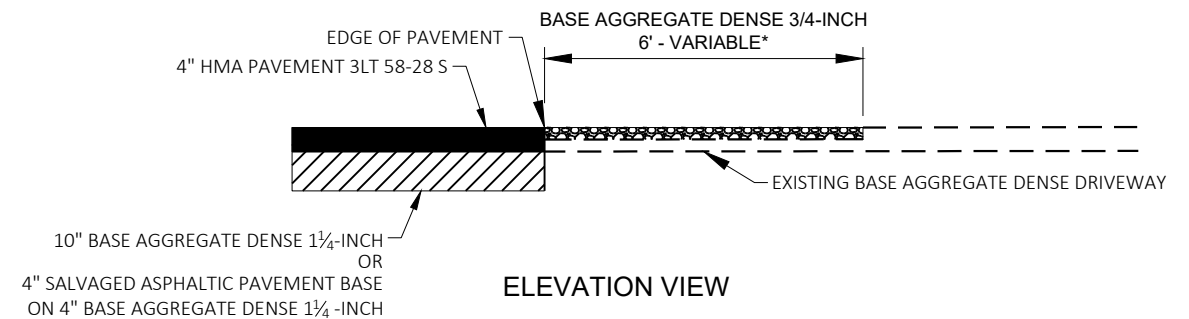
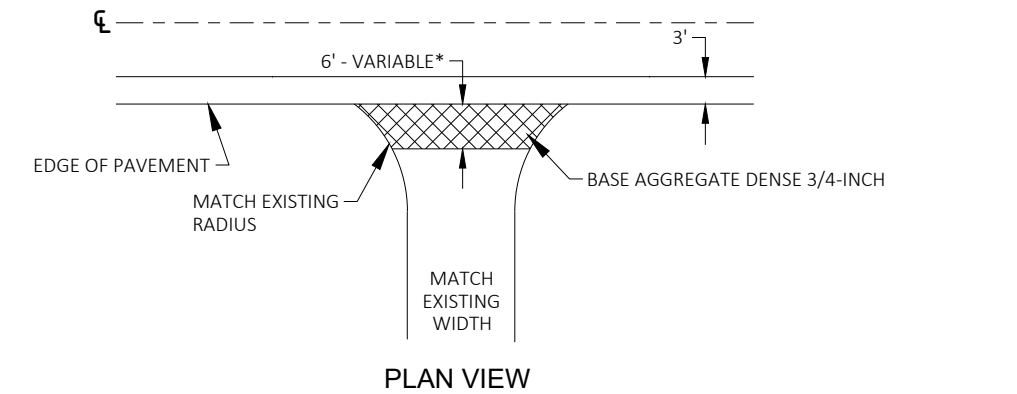
(UNLESS OTHERWISE SHOWN ON EROSION CONTROL DETAIL SHEETS)



ASPHALTIC DRIVEWAY DETAIL

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD

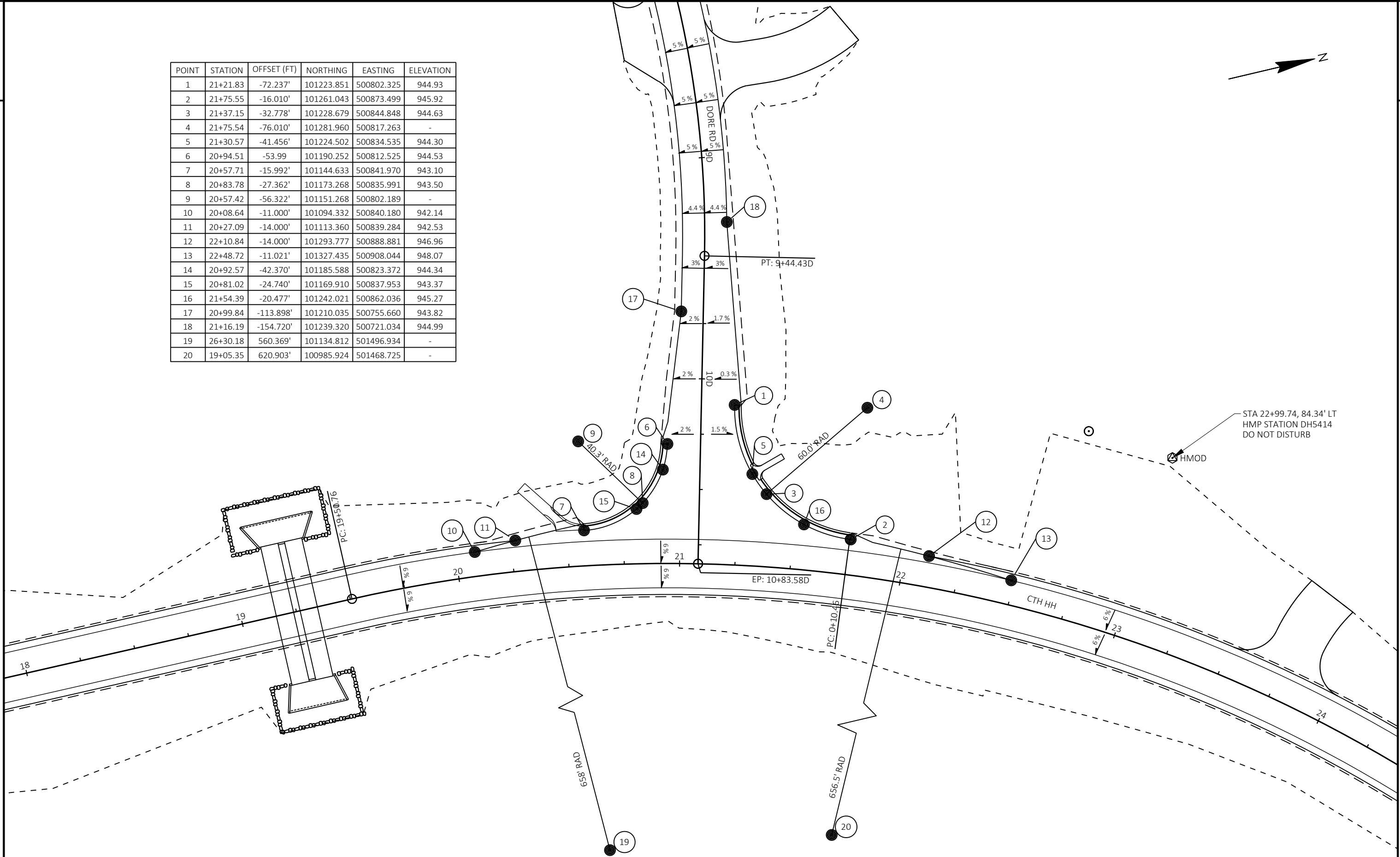
- STA 25+31 LT
- STA 44+06 RT
- STA 51+20 RT
- STA 58+60 LT
- STA 104+59 RT
- STA 122+47 LT
- STA 141+02 RT
- STA 143+13 RT
- STA 145+94 RT
- STA 148+58 RT
- STA 149+48 LT



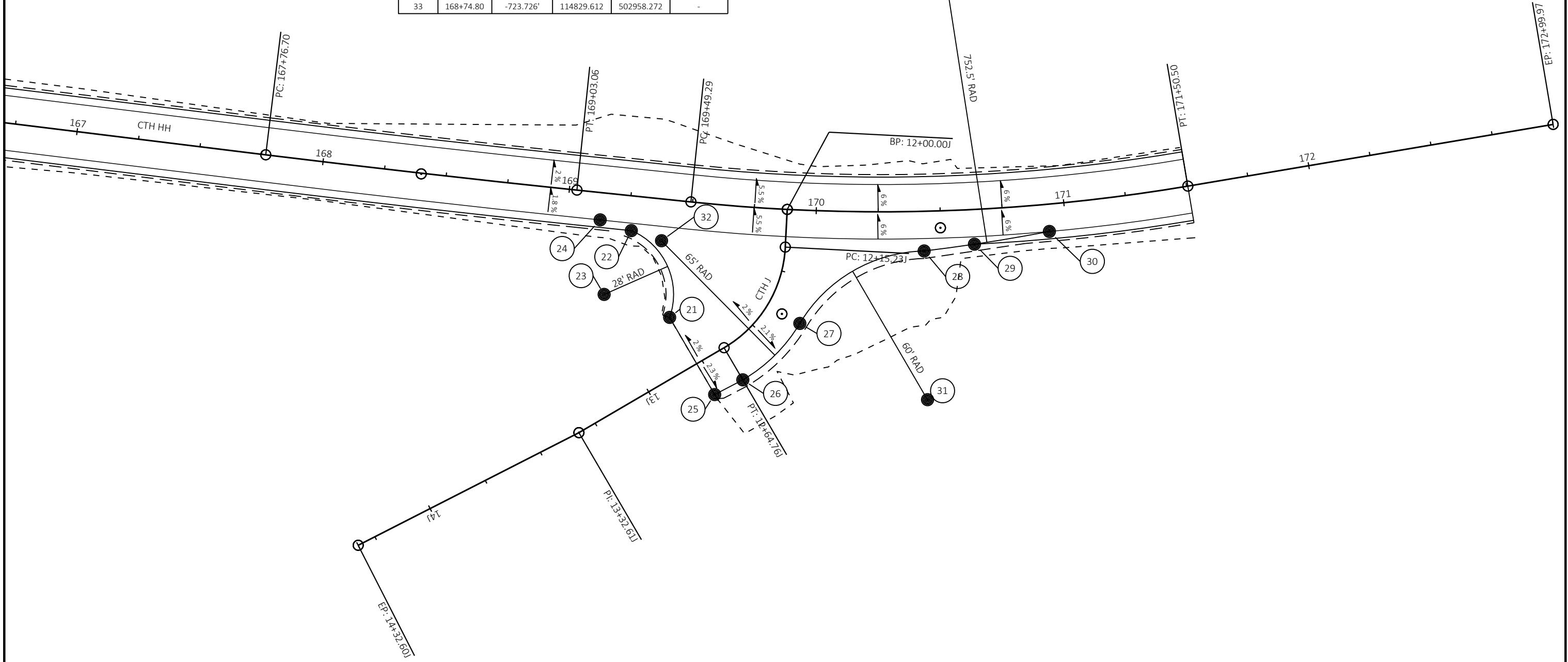
BASE AGGREGATE DRIVEWAY DETAIL

* EXACT DIMENSIONS AND NEED FOR ADDITIONAL BASE AGGREGATE DENSE 3/4-INCH TO BE DETERMINED BY ENGINEER IN THE FIELD

POINT	STATION	OFFSET (FT)	NORTHING	EASTING	ELEVATION
1	21+21.83	-72.237'	101223.851	500802.325	944.93
2	21+75.55	-16.010'	101261.043	500873.499	945.92
3	21+37.15	-32.778'	101228.679	500844.848	944.63
4	21+75.54	-76.010'	101281.960	500817.263	-
5	21+30.57	-41.456'	101224.502	500834.535	944.30
6	20+94.51	-53.99	101190.252	500812.525	944.53
7	20+57.71	-15.992'	101144.633	500841.970	943.10
8	20+83.78	-27.362'	101173.268	500835.991	943.50
9	20+57.42	-56.322'	101151.268	500802.189	-
10	20+08.64	-11.000'	101094.332	500840.180	942.14
11	20+27.09	-14.000'	101113.360	500839.284	942.53
12	22+10.84	-14.000'	101293.777	500888.881	946.96
13	22+48.72	-11.021'	101327.435	500908.044	948.07
14	20+92.57	-42.370'	101185.588	500823.372	944.34
15	20+81.02	-24.740'	101169.910	500837.953	943.37
16	21+54.39	-20.477'	101242.021	500862.036	945.27
17	20+99.84	-113.898'	101210.035	500755.660	943.82
18	21+16.19	-154.720'	101239.320	500721.034	944.99
19	26+30.18	560.369'	101134.812	501496.934	-
20	19+05.35	620.903'	100985.924	501468.725	-



POINT	STATION	OFFSET (FT)	NORTHING	EASTING	ELEVATION
21	169+45.55	47.239'	114789.759	503731.234	946.26
22	169+26.57	14.000'	114775.568	503695.683	946.49
23	169+18.31	40.756'	114763.682	503721.035	-
24	169+13.60	11.000'	114763.146	503690.913	946.68
25	169+65.22	76.485'	114806.831	503762.966	946.47
26	169+75.14	69.723'	114818.409	503757.453	946.22
27	169+95.27	45.705'	114842.197	503735.504	945.89
28	170+43.16	16.000'	114893.347	503708.087	944.23
29	170+63.16	14.000'	114913.750	503706.072	943.79
30	170+93.16	11.000'	114944.131	503702.026	943.25
31	170+43.16	76.000'	114892.583	503768.082	-
32	169+39.12	16.814'	114787.613	503700.211	-
33	168+74.80	-723.726'	114829.612	502958.272	-



PROJECT NO: 5808-00-73

HWY: CTH HH

COUNTY: JUNEAU

INTERSECTION DETAILS - CTH J

SHEET

E



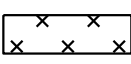
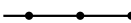






STA 7+72'D'
 1-CP CL III-A 15-INCH
 2-AEW'S REQ'D
 INV(I)=945.58
 INV(E)=944.98

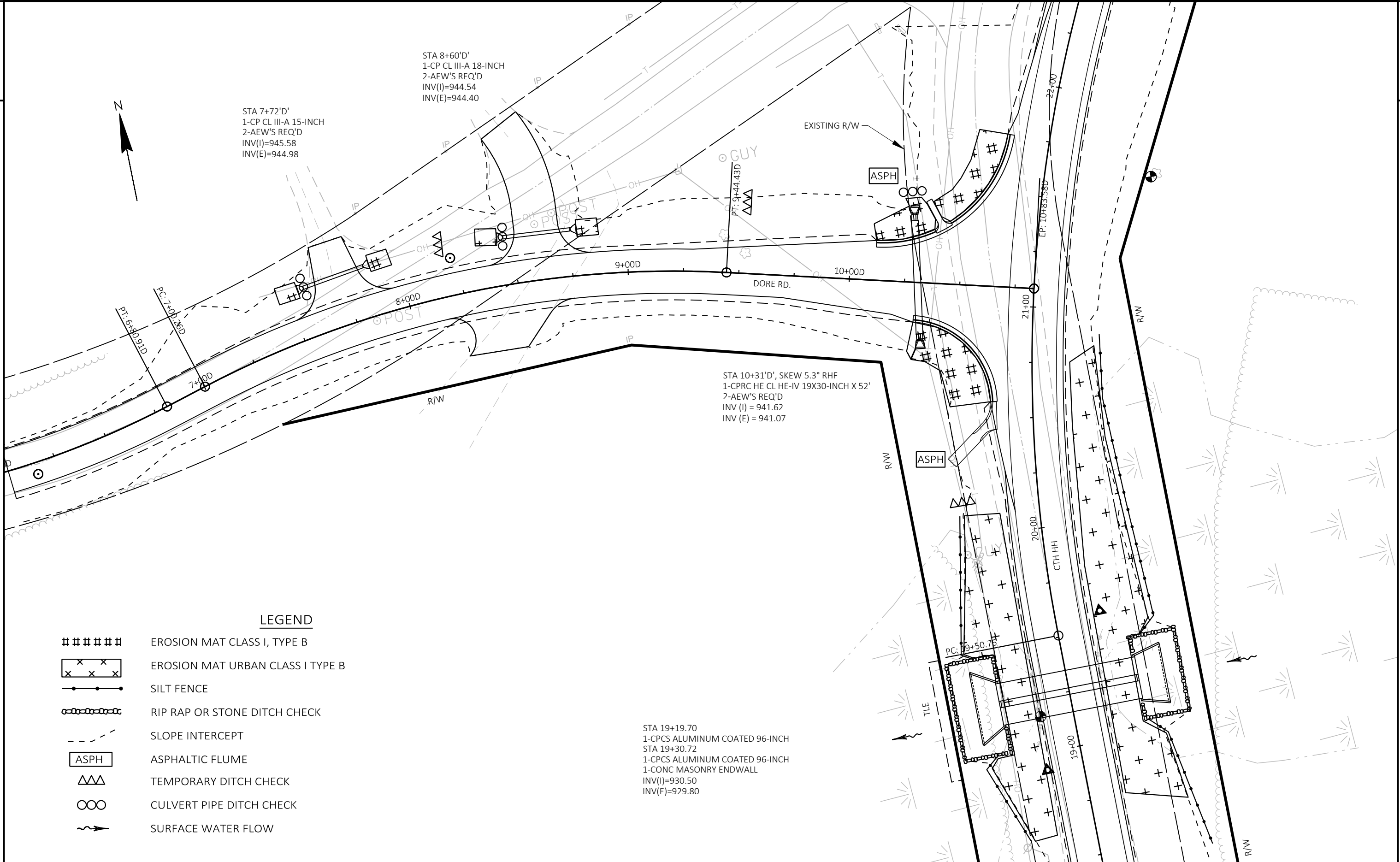
STA 8+60'D'
 1-CP CL III-A 18-INCH
 2-AEW'S REQ'D
 INV(I)=944.54
 INV(E)=944.40

STA 10+31'D', SKEW 5.3° RHF
 1-CPRC HE CL HE-IV 19X30-INCH X 52'
 2-AEW'S REQ'D
 INV (I) = 941.62
 INV (E) = 941.07

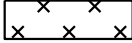




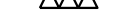


STA 19+19.70
 1-CPCS ALUMINUM COATED 96-INCH
 STA 19+30.72
 1-CPCS ALUMINUM COATED 96-INCH
 1-CONC MASONRY ENDWALL
 INV(I)=930.50
 INV(E)=929.80

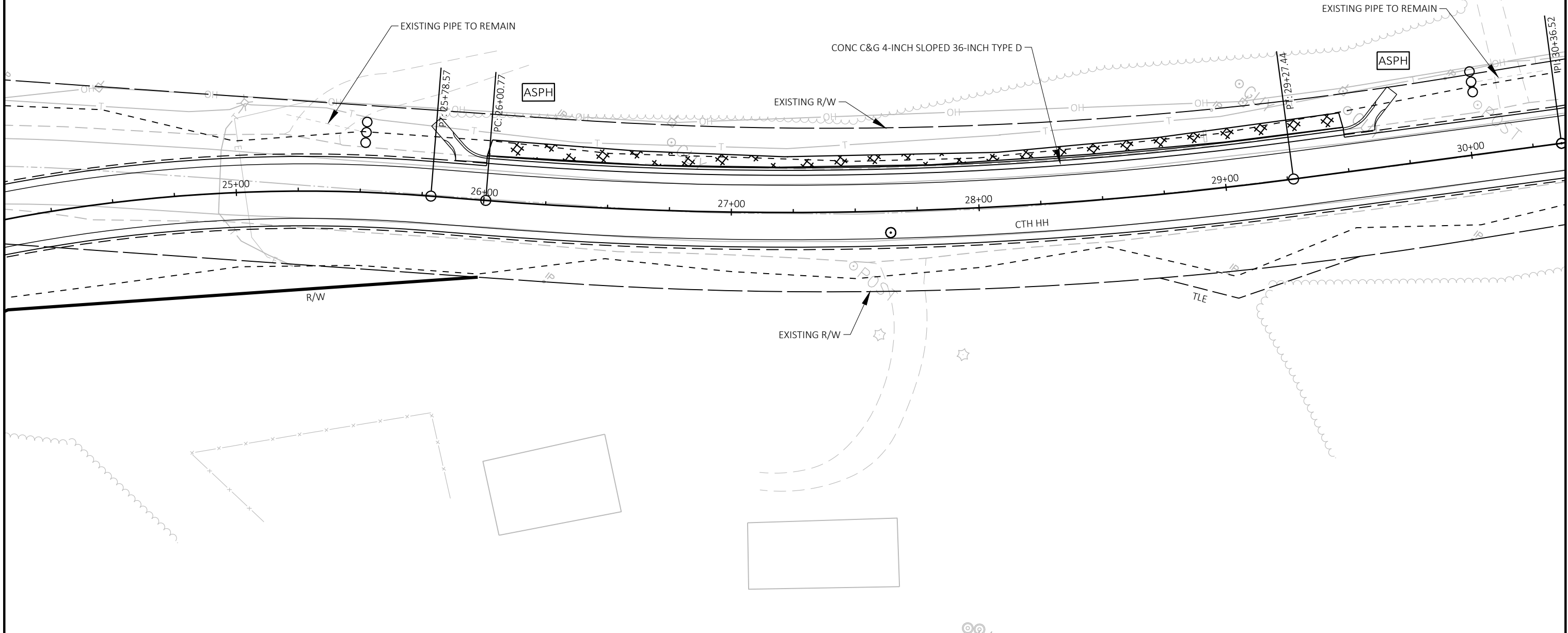
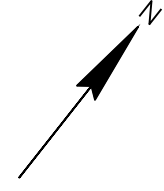
LEGEND

- ##### EROSION MAT CLASS I, TYPE B
-  EROSION MAT URBAN CLASS I TYPE B
-  SILT FENCE
-  RIP RAP OR STONE DITCH CHECK
-  SLOPE INTERCEPT
-  ASPHALTIC FLUME
-  TEMPORARY DITCH CHECK
-  CULVERT PIPE DITCH CHECK
-  SURFACE WATER FLOW

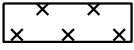
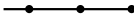








LEGEND

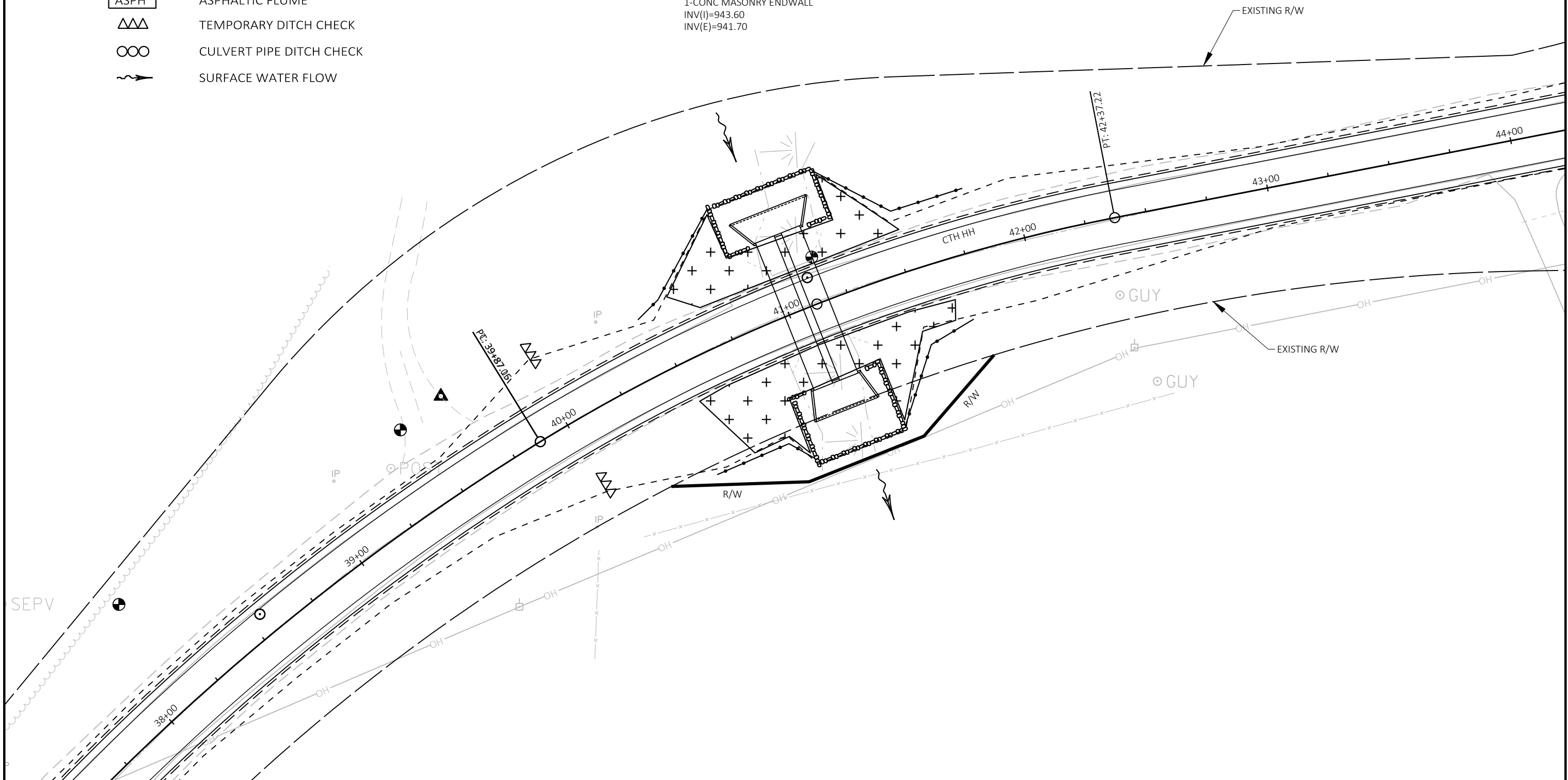
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-  EROSION MAT URBAN CLASS I TYPE B
-  SILT FENCE
-  RIP RAP OR STONE DITCH CHECK
-  SLOPE INTERCEPT
-  ASPH ASPHALTIC FLUME
-  TEMPORARY DITCH CHECK
-  CULVERT PIPE DITCH CHECK
-  SURFACE WATER FLOW



LEGEND

- ##### EROSION MAT CLASS I, TYPE B
-  EROSION MAT URBAN CLASS I TYPE B
-  SILT FENCE
-  RIP RAP OR STONE DITCH CHECK
-  SLOPE INTERCEPT
-  ASPH ASPHALTIC FLUME
-  TEMPORARY DITCH CHECK
-  CULVERT PIPE DITCH CHECK
-  SURFACE WATER FLOW

STA 41+02.06
 1-CPCS ALUMINUM COATED 96-INCH
 STA 41+13.12
 1-CPCS ALUMINUM COATED 96-INCH
 1-CONC MASONRY ENDWALL
 INV(I)=943.60
 INV(E)=941.70





PK POST
STA 51+27.76
17.43' LT

PK FENCE POST
STA 51+50.11
50.63' RT

CP#41
STA 51+08.06
22.54' RT
N = 103,091.50
E = 503,068.75
ELEV = 984.80

PK FENCE POST
STA 50+90.60
45.90' RT

COUGHLIN RD

CTH HH



CP#42
STA 39+63.45'
36.94' LT
N = 102,557.49
E = 502,106.33
ELEV = 957.26
10" NAIL

3/4" ROD
40+29.60
30.80' LT

BM#4

BM#17

PE: 39+81.05

CTH HH

PK TOP CMP BAN
STA 30+31.48
24.12' LT

PK POWER POLE
STA 38+84.31
38.96' RT

SEPV

BM#3

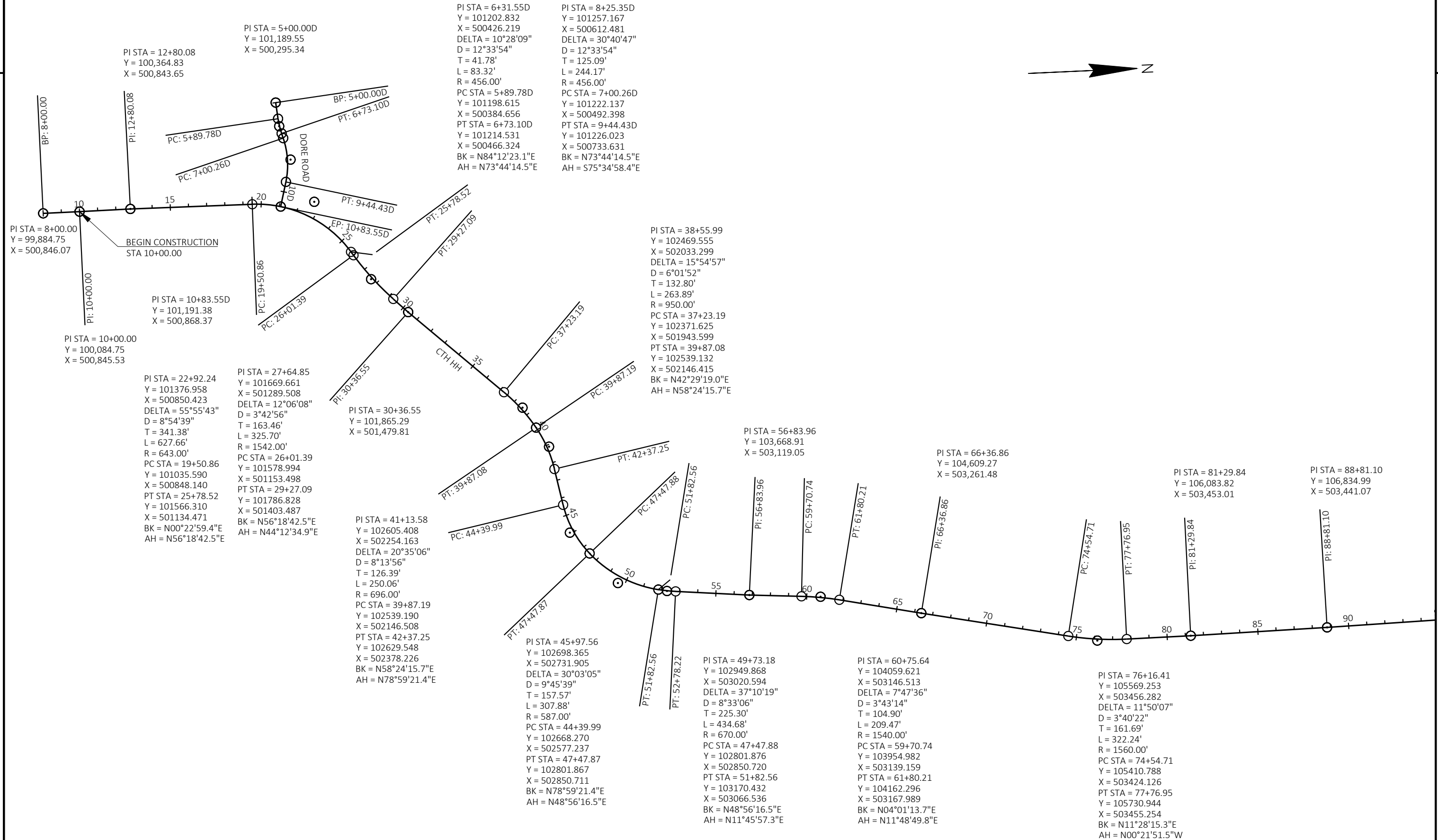
PK IN POWER POLE
STA 18+59.25
31.88' LT

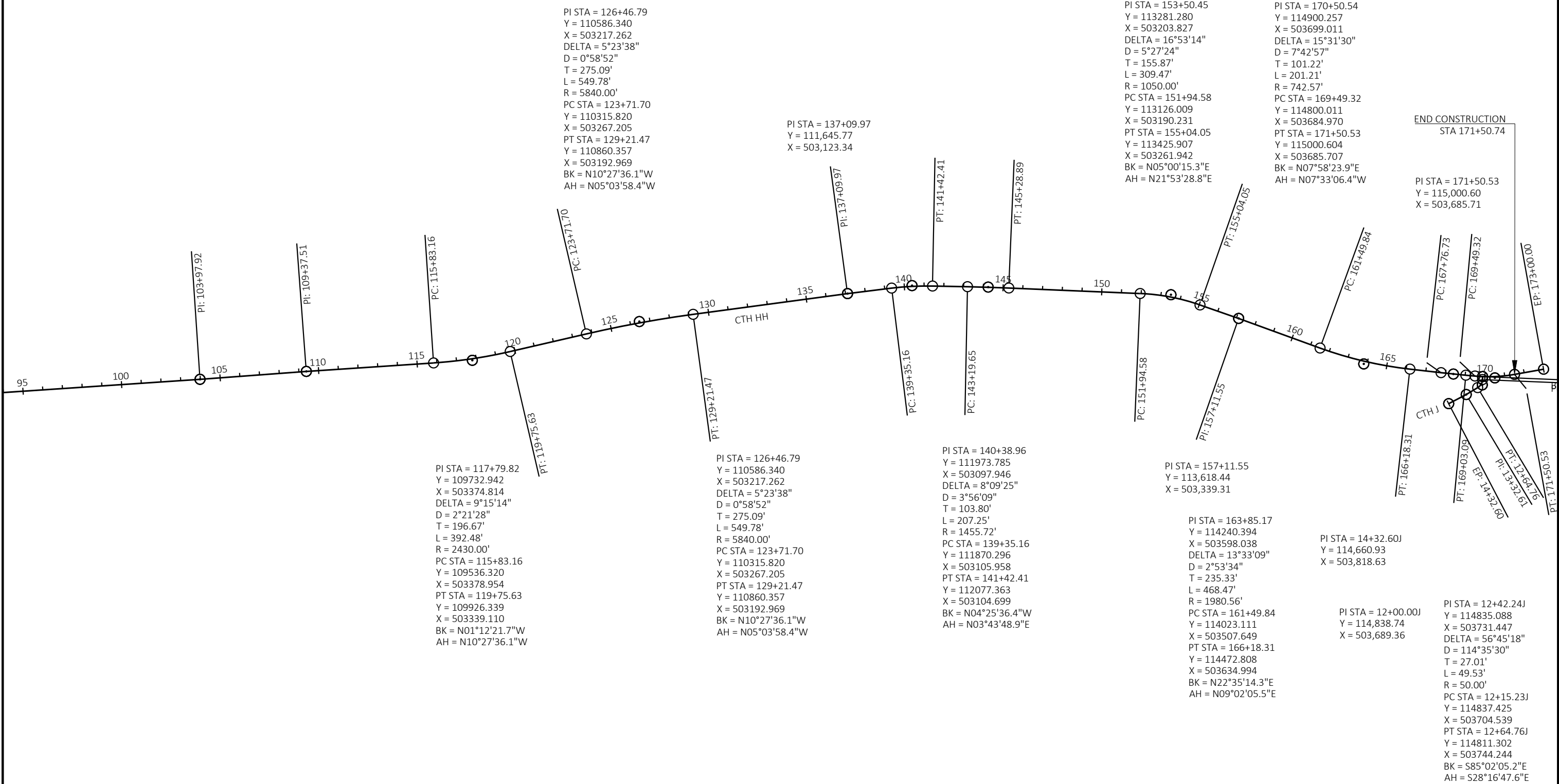
GUY

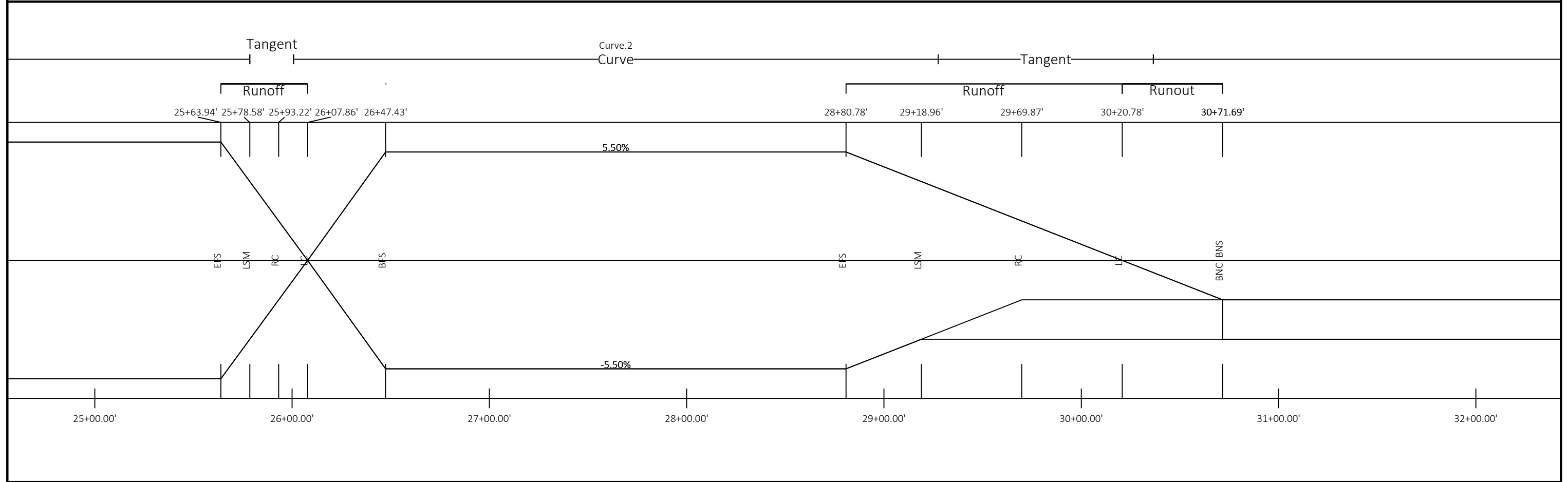
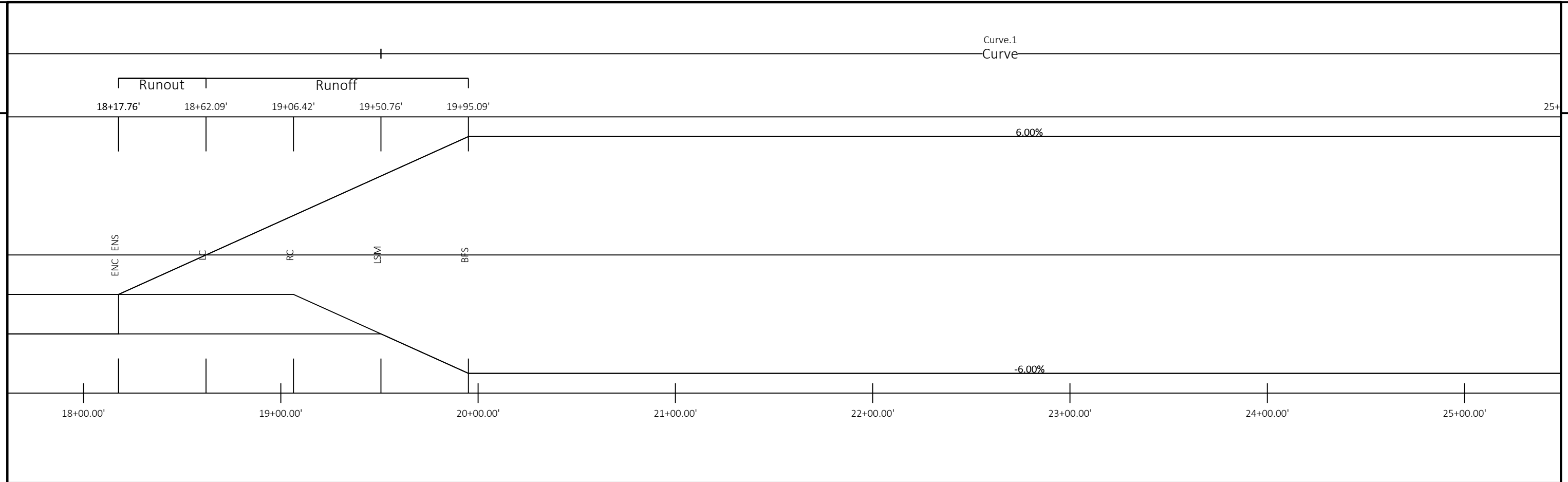
BM#1

CP#48
STA 18+92.00
16.45' LT
N = 100,976.84
E = 500,831.29
ELEV = 939.52
10" NAIL

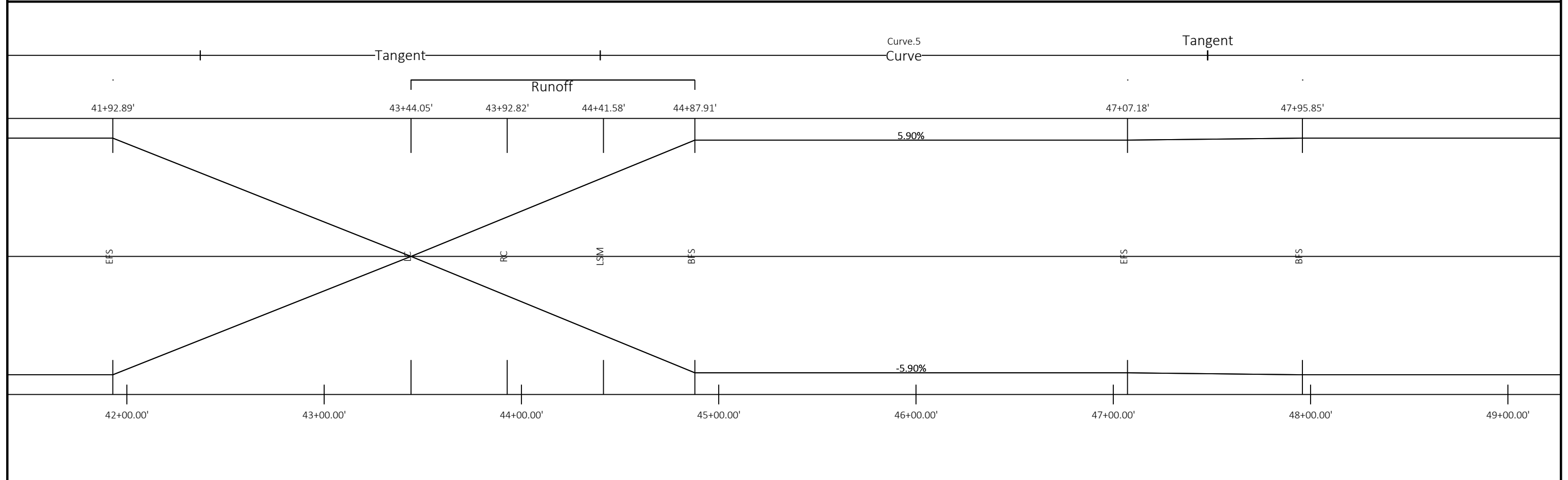
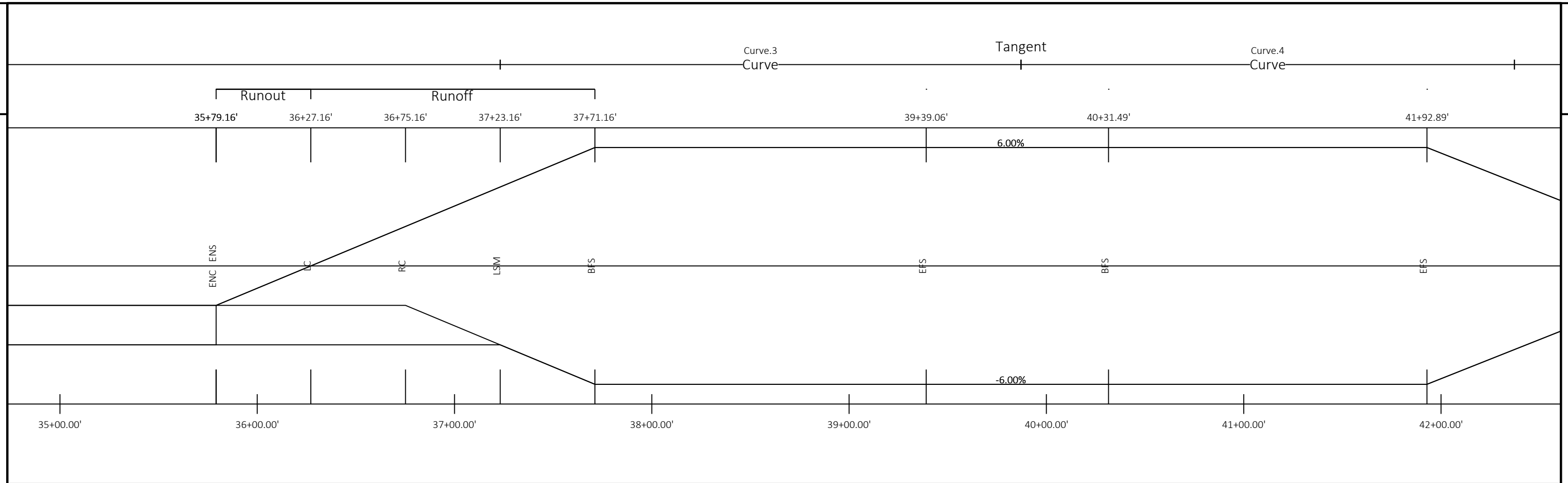
CTH HH



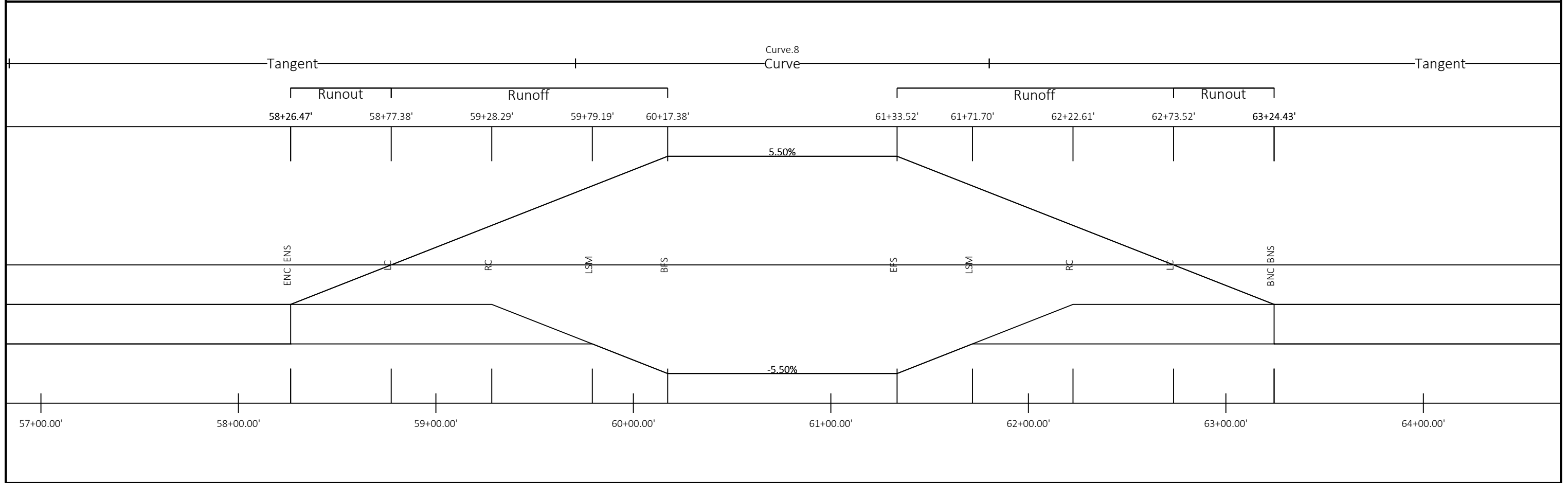
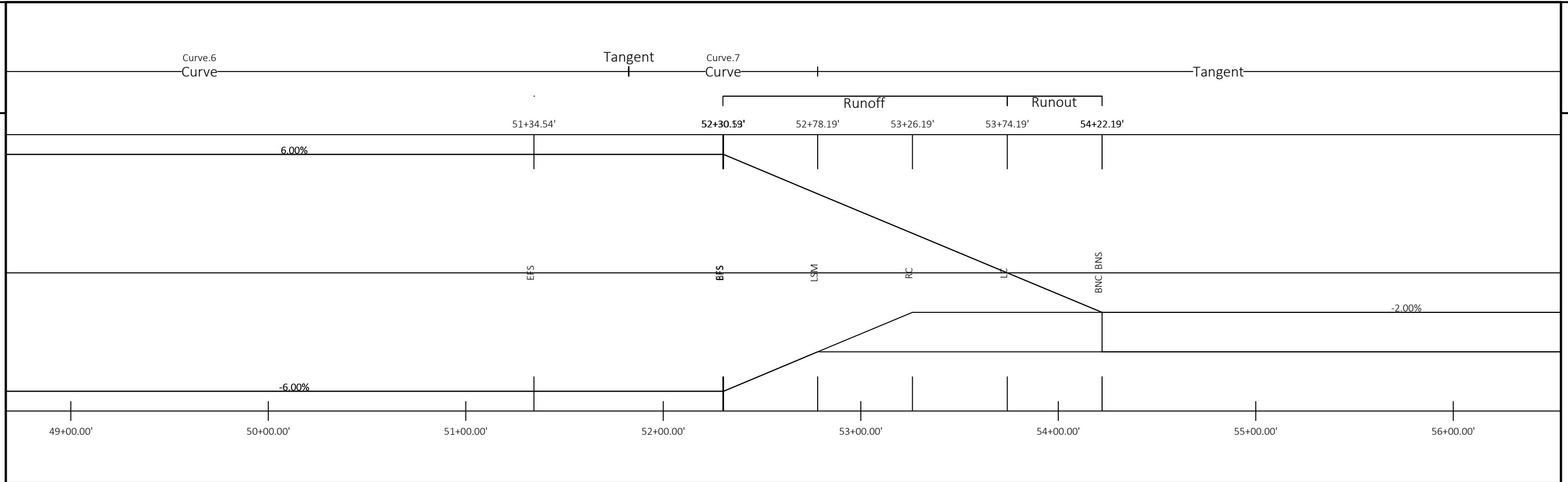




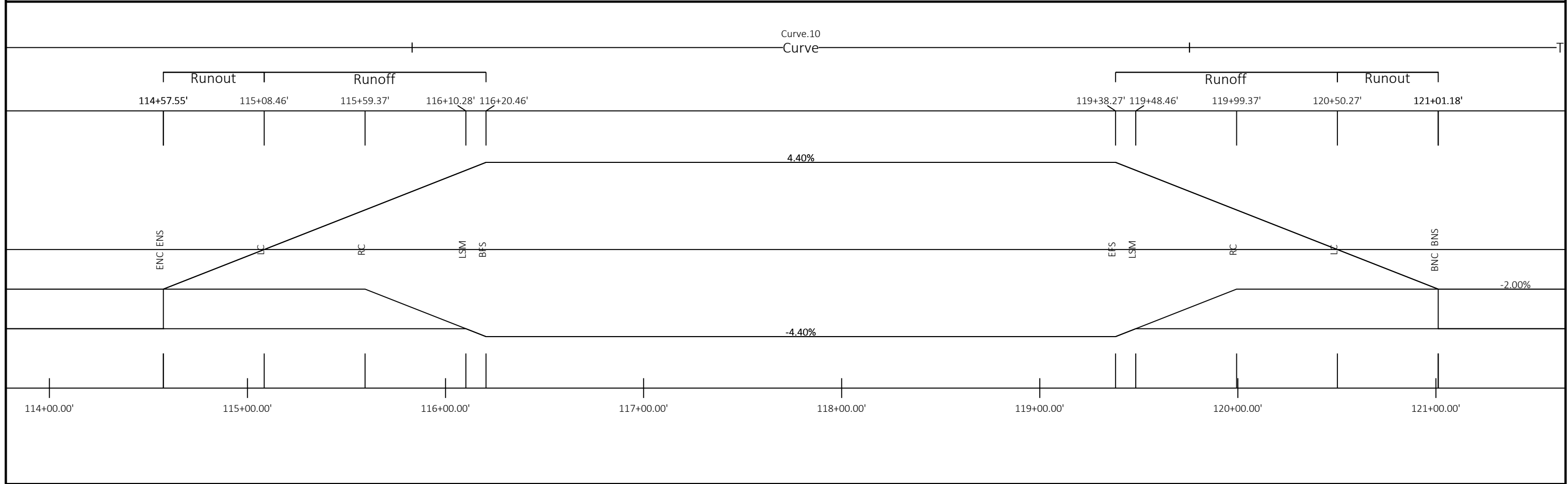
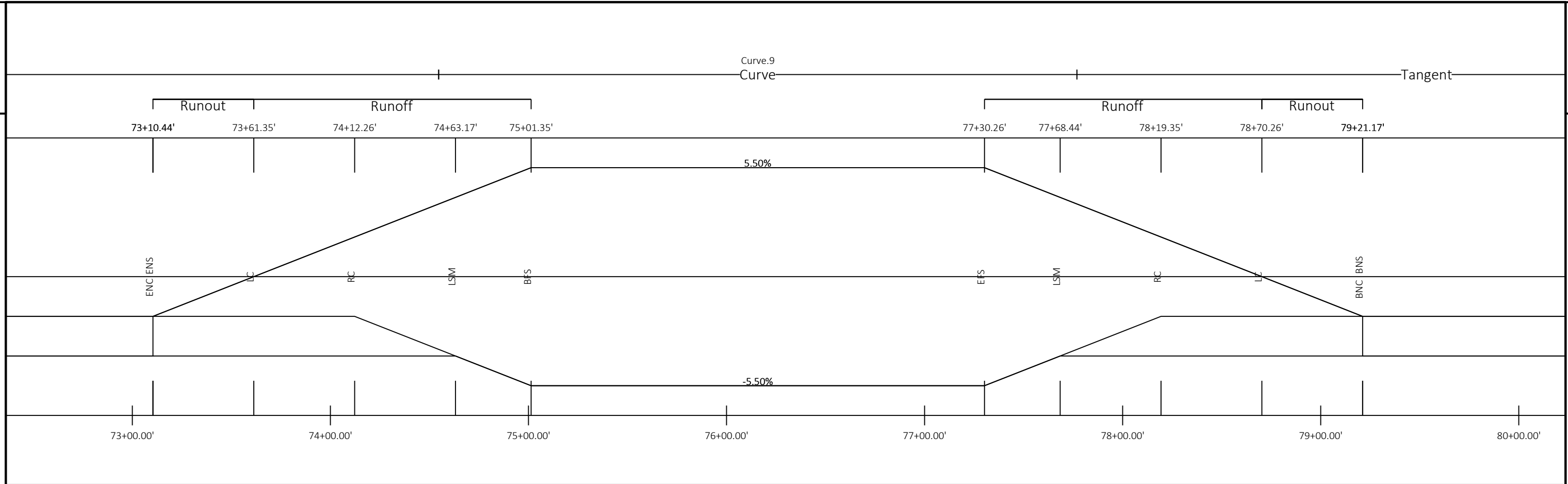
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	SUPERELEVATION DIAGRAM	SHEET	E
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	SUPERELEVATION DIAGRAM	SHEET	E
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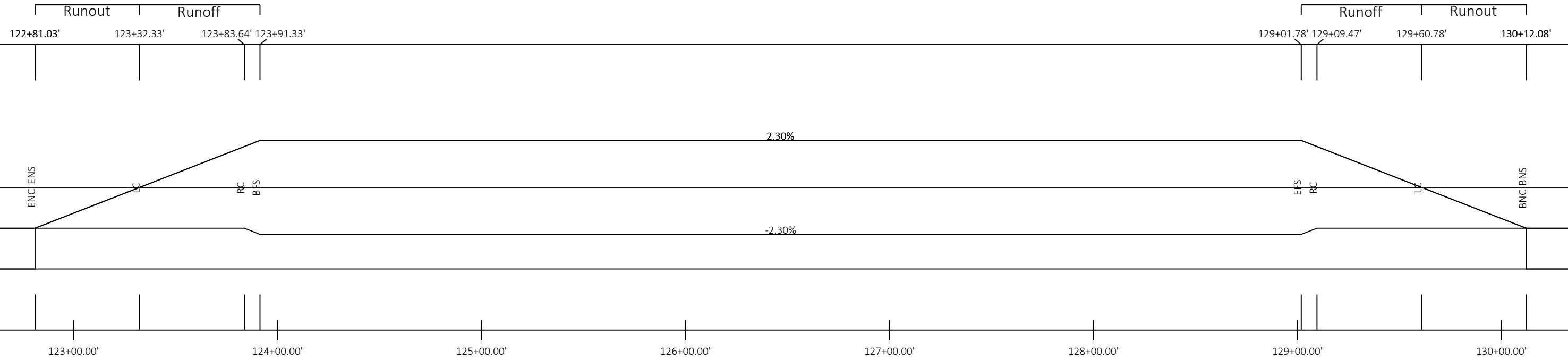


PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	SUPERELEVATION DIAGRAM	SHEET	E
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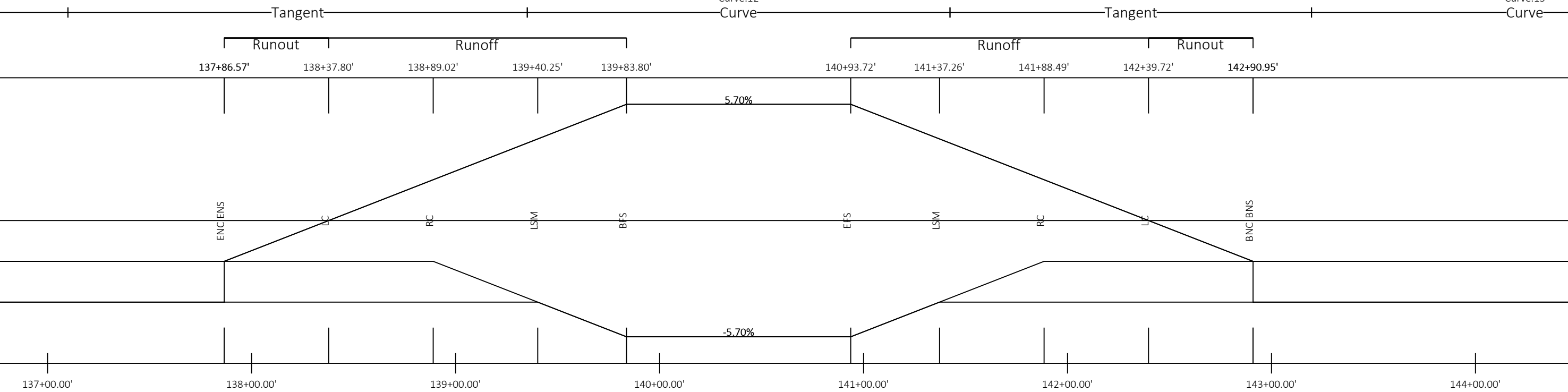
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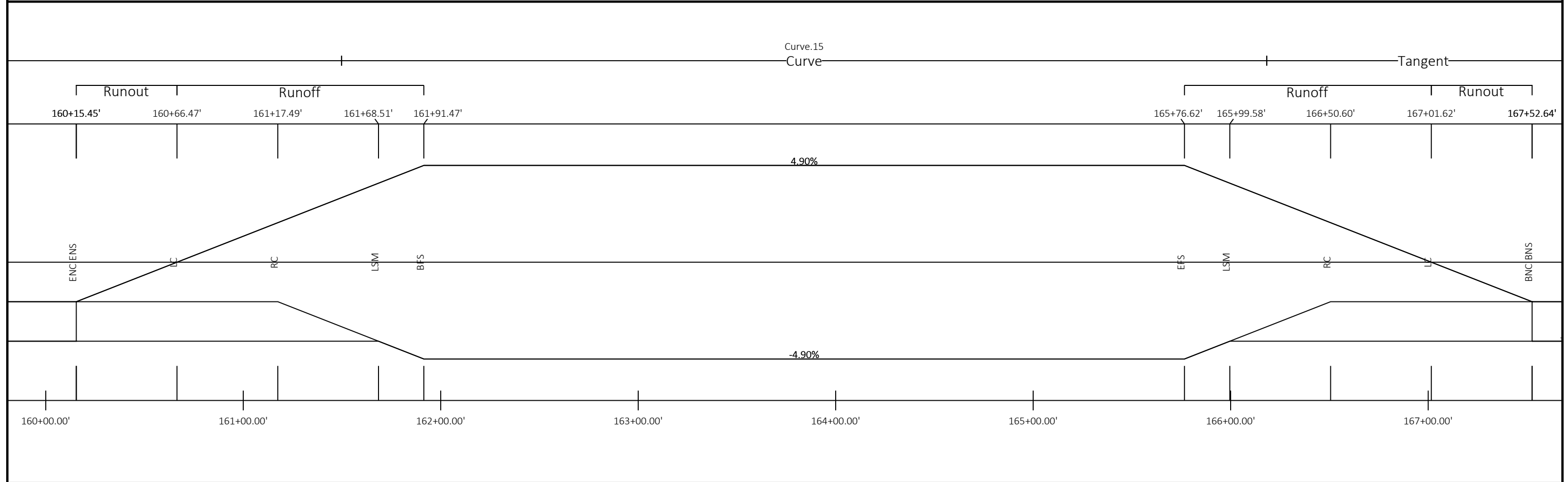
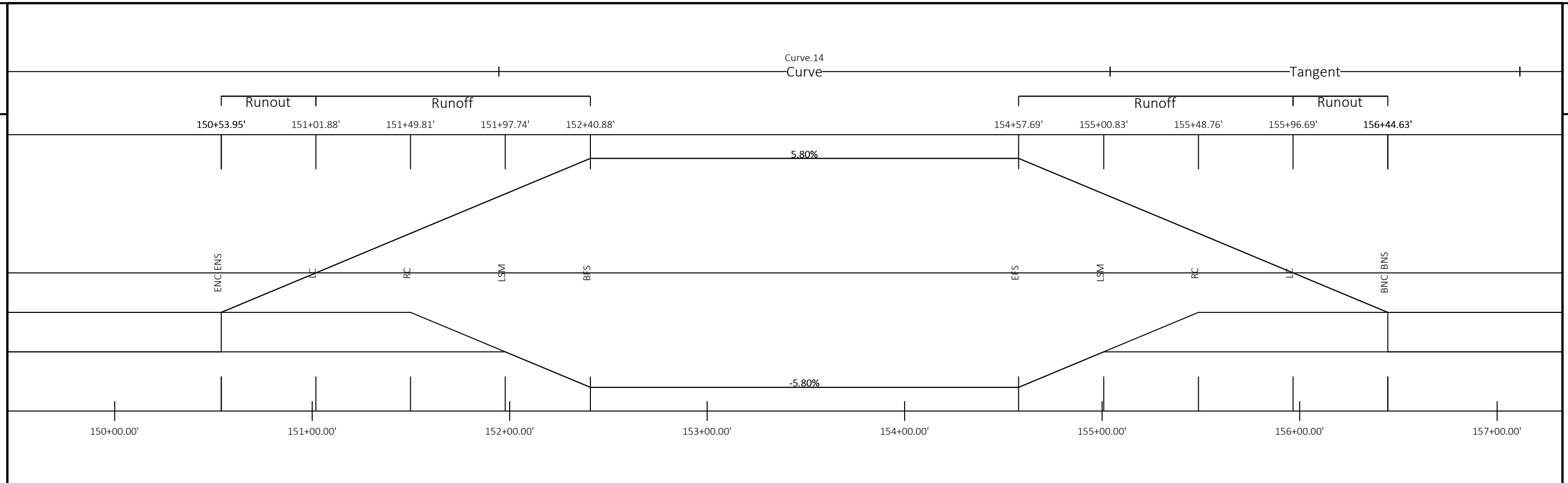
Curve.11
Curve



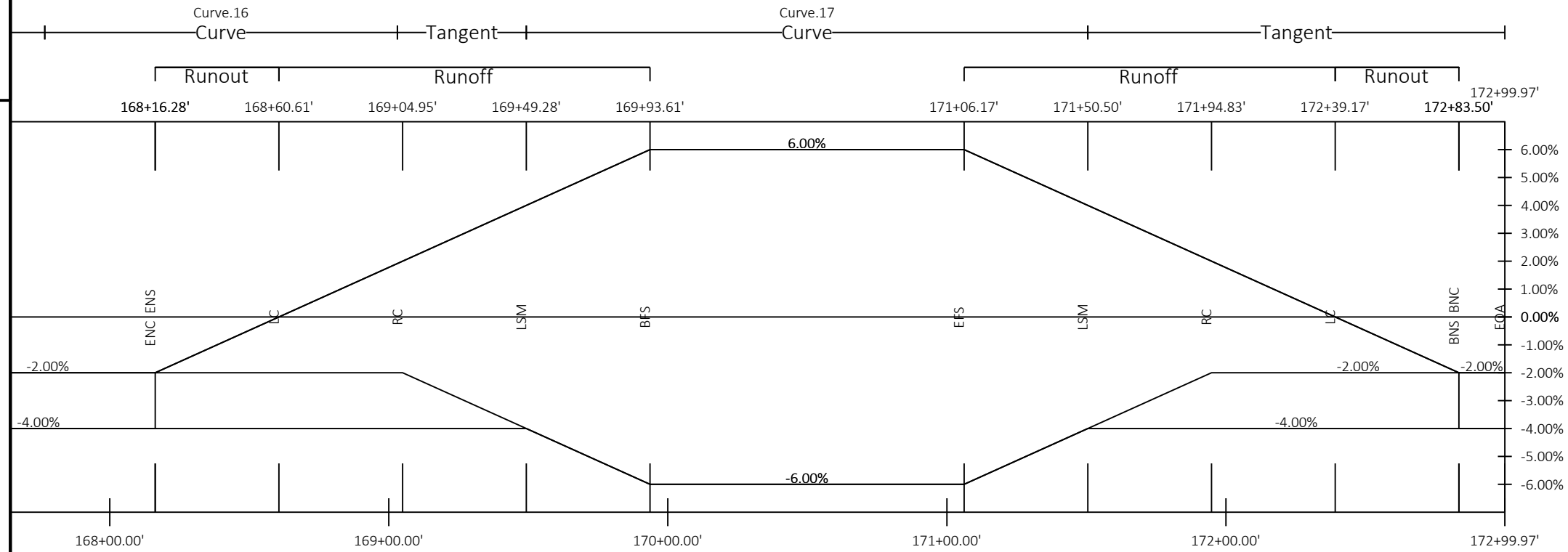
Curve.12
Curve

Curve.13
Curve

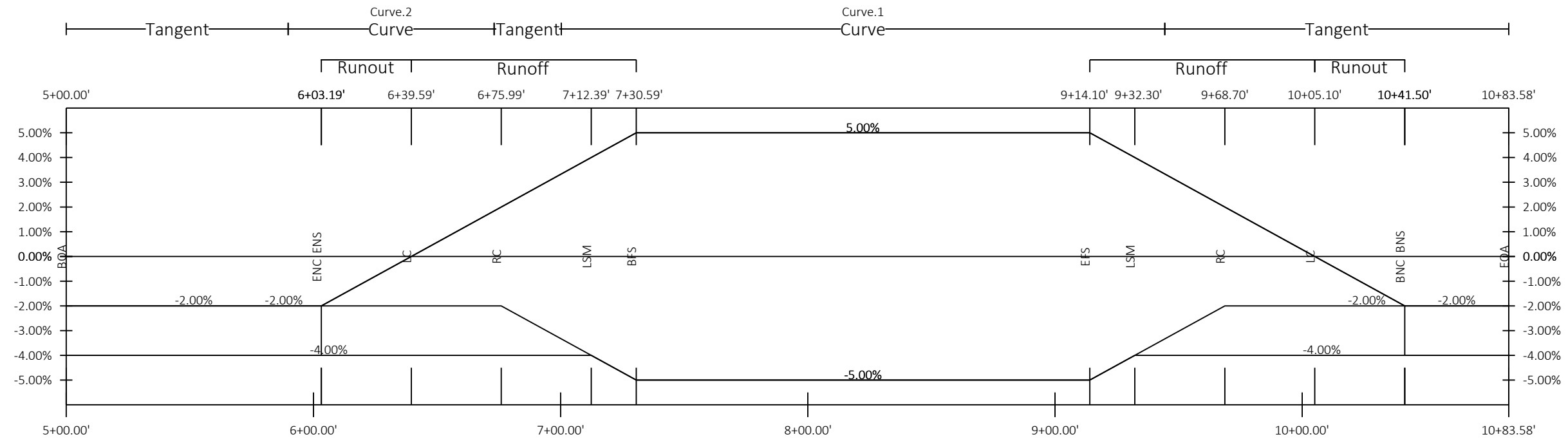




PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	SUPERELEVATION DIAGRAM	SHEET	E
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DORE RD Superelevation



Estimate Of Quantities

5808-00-73

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	5.000	5.000
0004	201.0205	Grubbing	STA	5.000	5.000
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 19+19.70	LS	1.000	1.000
0008	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 02. 41+08	LS	1.000	1.000
0010	204.0110	Removing Asphaltic Surface	SY	953.000	953.000
0012	204.0165	Removing Guardrail	LF	136.000	136.000
0014	205.0100	Excavation Common	CY	18,311.000	18,311.000
0016	208.0100	Borrow	CY	641.000	641.000
0018	213.0100	Finishing Roadway (project) 01. 5808-00-73	EACH	1.000	1.000
0020	214.0100	Obliterating Old Road	STA	4.000	4.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,843.000	3,843.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	16,684.000	16,684.000
0026	312.0110	Select Crushed Material	TON	176.000	176.000
0028	455.0605	Tack Coat	GAL	3,322.000	3,322.000
0030	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0032	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0034	460.2005	Incentive Density PWL HMA Pavement	DOL	6,380.000	6,380.000
0036	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	4,660.000	4,660.000
0038	460.2010	Incentive Air Voids HMA Pavement	DOL	8,124.000	8,124.000
0040	460.5223	HMA Pavement 3 LT 58-28 S	TON	11,627.000	11,627.000
0042	465.0105	Asphaltic Surface	TON	43.000	43.000
0044	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	49.000	49.000
0046	465.0315	Asphaltic Flumes	SY	57.000	57.000
0048	504.0900	Concrete Masonry Endwalls	CY	46.000	46.000
0050	520.1015	Apron Endwalls for Culvert Pipe 15-Inch	EACH	2.000	2.000
0052	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2.000
0054	520.3315	Culvert Pipe Class III-A 15-Inch	LF	28.000	28.000
0056	520.3318	Culvert Pipe Class III-A 18-Inch	LF	30.000	30.000
0058	521.6196	Culvert Pipe Corrugated Steel Aluminum Coated 96-Inch	LF	256.000	256.000
0060	522.2419	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	52.000	52.000
0062	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	2.000	2.000
0064	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	347.000	347.000
0066	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	142.000	142.000
0068	606.0300	Riprap Heavy	CY	196.000	196.000
0070	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5808-00-73	EACH	1.000	1.000

Estimate Of Quantities

5808-00-73

Line	Item	Item Description	Unit	Total	Qty
0072	619.1000	Mobilization	EACH	1.000	1.000
0074	624.0100	Water	MGAL	345.000	345.000
0076	625.0500	Salvaged Topsoil	SY	8,718.000	8,718.000
0078	627.0200	Mulching	SY	7,412.000	7,412.000
0080	628.1504	Silt Fence	LF	677.000	677.000
0082	628.1520	Silt Fence Maintenance	LF	677.000	677.000
0084	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0086	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0088	628.2004	Erosion Mat Class I Type B	SY	492.000	492.000
0090	628.2008	Erosion Mat Urban Class I Type B	SY	1,384.000	1,384.000
0092	628.7504	Temporary Ditch Checks	LF	93.000	93.000
0094	628.7555	Culvert Pipe Checks	EACH	17.000	17.000
0096	629.0210	Fertilizer Type B	CWT	7.200	7.200
0098	630.0120	Seeding Mixture No. 20	LB	290.000	290.000
0100	630.0200	Seeding Temporary	LB	290.000	290.000
0102	630.0500	Seed Water	MGAL	237.000	237.000
0104	633.5100	Markers Row	EACH	10.000	10.000
0106	633.5200	Markers Culvert End	EACH	10.000	10.000
0108	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	2.000	2.000
0110	637.2210	Signs Type II Reflective H	SF	10.360	10.360
0112	638.2602	Removing Signs Type II	EACH	14.000	14.000
0114	638.3000	Removing Small Sign Supports	EACH	13.000	13.000
0116	642.5001	Field Office Type B	EACH	1.000	1.000
0118	643.0300	Traffic Control Drums	DAY	2,460.000	2,460.000
0120	643.0420	Traffic Control Barricades Type III	DAY	3,198.000	3,198.000
0122	643.0705	Traffic Control Warning Lights Type A	DAY	2,952.000	2,952.000
0124	643.0900	Traffic Control Signs	DAY	3,321.000	3,321.000
0126	643.5000	Traffic Control	EACH	1.000	1.000
0128	645.0120	Geotextile Type HR	SY	416.000	416.000
0130	646.1020	Marking Line Epoxy 4-Inch	LF	60,908.000	60,908.000
0132	648.0100	Locating No-Passing Zones	MI	3.060	3.060
0134	650.4500	Construction Staking Subgrade	LF	16,688.000	16,688.000
0136	650.5000	Construction Staking Base	LF	16,688.000	16,688.000
0138	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	489.000	489.000
0140	650.6000	Construction Staking Pipe Culverts	EACH	5.000	5.000
0142	650.9910	Construction Staking Supplemental Control (project) 01. 5808-00-73	LS	1.000	1.000
0144	650.9920	Construction Staking Slope Stakes	LF	2,287.000	2,287.000
0146	690.0150	Sawing Asphalt	LF	511.000	511.000
0148	740.0440	Incentive IRI Ride	DOL	12,236.000	12,236.000

Estimate Of Quantities

5808-00-73

Line	Item	Item Description	Unit	Total	Qty
0150	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,000.000	1,000.000
0152	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	330.000	330.000
0154	SPV.0195	Special 01. Salvaged Asphaltic Pavement	TON	10,601.000	10,601.000
0156	SPV.0195	Special 02. Salvaged Asphaltic Pavement Base	TON	10,037.000	10,037.000

CLEARING AND GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
0010	15+00	-	17+00	RT	2	2
0010	17+50	-	18+50	RT	1	1
0010	18+50	-	20+00	LT	2	2
TOTAL 0010					5	5

REMOVING STRUCTURES

203.0600.S.01 REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) (01. 19+19.70)	203.0600.S.02 REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) (02. 41+08)
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CATEGORY	STATION	LS	LS	REMARKS
0010	19+19	1	--	BOX CULVERT
0010	41+08	--	1	<20' TIMBER BRIDGE
TOTAL 0010		1	1	

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	214.0100 OBLITERATING OLD ROAD STA
0010	25+31	-	---	DRIVEWAY LT	10	---
0010	44+06	-	---	DRIVEWAY RT	36	---
0010	51+20	-	---	DRIVEWAY RT	116	---
0010	58+60	-	---	DRIVEWAY LT	45	---
0010	73+75	-	---	CROWLEY RD	233	---
0010	73+92	-	---	SWEENEY LN	99	---
0010	104+59	-	---	DRIVEWAY RT	28	---
0010	122+47	-	---	DRIVEWAY LT	39	---
0010	126+55	-	---	DELMORE RD	174	---
0010	141+02	-	---	DRIVEWAY RT	28	---
0010	143+13	-	---	DRIVEWAY RT	68	---
0010	145+94	-	---	DRIVEWAY RT	31	---
0010	148+58	-	---	DRIVEWAY RT	22	---
0010	149+48	-	---	DRIVEWAY LT	24	---
0010	8+70'D'	-	23+00	DORE RD	---	4
TOTAL 0010					953	4

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF
0010	18+99	-	19+50	RT	50
0010	19+00	-	19+52	LT	50
0010	40+99	-	41+17	LT	18
0010	40+99	-	14+18	RT	18
TOTAL 0010					136

DIVISION	FROM/TO STATION	205.0100 COMMON EXCAVATION (1)		SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
		CUT (2)	EBS EXCAVATION (3)								
DIVISION 1											
EWKDETAIL-CTH HH-BEGIN	10+00/20+08.638	2,389	0	0	2,389	340	425	1,964	1,964	0	
EWKDETAIL-CTH HH-INT BEGIN	20+08.638/20+57.705	0	0	0	0	96	120	-120	0	120	
EWKDETAIL-CTH HH-MIDDLE	20+60/21+75	12	0	0	12	188	235	-223	0	223	
EWKDETAIL-CTH HH-END	21+75.546/22+48.724	2,112	1,410	0	2,112	102	-1,635	3,747	3,747	0	
EWKDETAIL-CTH HH-21-60	22+48.724/60+00	3,391	0	0	3,391	170	213	3,179	3,179	0	
EWKDETAIL-CTH HH-6050-END	61+00/172+99.97	8,353	0	0	8,353	2	3	8,351	8,351	0	
EWKDETAIL-CTH HH AT CTH J	169+13.602/170+43.16	199	0	0	199	0	0	199	199	0	
EWKDETAIL-DORE	06+03.314/10+83.583	332	0	71	261	447	559	-298	0	298	
EWKDETAIL-CTH J	12+12.294/12+77.5	113	0	0	113	5	6	107	107	0	
DIVISION 1 SUBTOTAL		16,901	1,410	71	16,830	1,350	-75	16,905	17,546	641	
GRAND TOTAL		16,901	1,410	71	16,830	1,350	-75	16,905	17,546	641	
TOTAL COMMON EXC		18,311									

NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (13) EXPANDED FILL FACTOR = 1.25
- (14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
- (15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

3

BASE AGGREGATE DENSE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	* 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	REMARKS
					0010	10+00	-	171+51	
0010	10+00	-	171+51	SALVAGED AREAS	---	520	---	8	
0010	6+03.31 'D'	-	10+67.50 'D'	DORE RD	66	997	---	16	
0010	12+14 'J'	-	12+77.57 'J'	CTH J	26	107	---	2	
0010	---	-	---	UNDISTRIBUTED	500	1,000	---	23	
0010	---	-	---	EBS	---	---	176	---	
TOTAL 0010					3,544	16,684	176	305	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

HMA PAVEMENT ITEMS

CATEGORY	STATION	TO	STATION	THICKNESS (IN.)	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	REMARKS
					0010	10+00	-	
0010	6+03.31 'D'	-	10+70 'D'	4	64	286	---	
0010	126+50	-	171+51	4	701	3,137	---	
0010	12+14 'J'	-	12+78	4	18	80	---	
0010	73+75	-	---	2	---	---	22	
0010	73+92	-	---	2	---	---	8	
0010	126+55	-	---	2	---	---	13	
TOTAL 0010					3,322	11,627	43	

PERCENT WITHIN LIMITS (PWL) MIXTURE USE TABLE

LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS (INCHES)	QMP MANAGEMENT PROGRAM TO BE USED FOR:	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
11 FOOT DRIVING LANE & SHOULDER	10+00 - 171+51	UPPER LAYER	3 LT 58-28 S	460.5223	4927	1.75	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
11 FOOT DRIVING LANE & SHOULDER	10+00 - 171+51	LOWER LAYER	BASE AGGREGATE 1 1/4-INCH	460.5223	6335	2.25	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005

DRIVEWAY ITEMS

CATEGORY	STATION	LOCATION	* 305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	* 624.0100 WATER MGAL
			0010	11+26	LT
0010	11+58	RT	4	---	1
0010	7+72 'D'	LT	25	---	1
0010	8+50 'D'	RT	25	---	1
0010	8+60 'D'	LT	53	---	1
0010	23+80	LT	40	---	1
0010	25+31	LT	---	4	---
0010	27+68	RT	3	---	1
0010	30+20	LT	2	---	1
0010	32+94	LT	5	---	1
0010	35+06	LT	3	---	1
0010	36+53	LT	3	---	1
0010	39+53	LT	5	---	1
0010	44+06	RT	---	3	---
0010	51+20	RT	---	12	---
0010	58+38	RT	2	---	1
0010	58+60	LT	---	4	---
0010	62+38	RT	2	---	1
0010	67+07	RT	2	---	1
0010	90+43	RT	2	---	1
0010	90+44	LT	3	---	1
0010	91+97	RT	3	---	1
0010	93+38	LT	5	---	1
0010	100+03	LT	2	---	1
0010	100+09	RT	2	---	1
0010	100+35	LT	3	---	1
0010	104+48	LT	2	---	1
0010	104+59	RT	---	2	---
0010	106+93	RT	3	---	1
0010	110+03	LT	2	---	1
0010	118+35	LT	6	---	1
0010	122+47	LT	---	3	---
0010	123+92	RT	3	---	1
0010	124+62	LT	2	---	1
0010	127+31	LT	3	---	1
0010	138+04	LT	2	---	1
0010	139+47	RT	3	---	1
0010	140+28	LT	4	---	1
0010	140+72	LT	3	---	1
0010	141+02	RT	---	3	---
0010	143+13	RT	---	4	---
0010	145+94	RT	---	3	---
0010	147+30	RT	3	---	1
0010	148+58	RT	---	3	---
0010	149+48	LT	---	3	---
0010	151+09	RT	3	---	1
0010	152+75	LT	5	---	1
0010	155+84	LT	3	---	1
0010	157+25	RT	2	---	1
0010	167+94	LT	3	---	1
UNDISTRIBUTED			50	5	1
TOTAL 0010			299	49	40

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

FLUMES

CULVERT PIPE ITEMS

CATEGORY	STATION	LOCATION	SY	THICKNESS		CONCRETE MASONRY ENDWALLS	CY	APRON		CULVERT PIPE CLASS III-A 15-INCH	CULVERT PIPE CLASS III-A 18-INCH	CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED 96-INCH	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH	MARKERS CULVERT END	CONSTRUCTION STAKING PIPE CULVERTS
				STEEL	ALUMINUM			INCH EACH	INCH EACH							
0010	20+50	LT	20													
0010	10+42'J'	LT	7													
0010	25+93	LT	15													
0010	29+56	LT	15													
TOTAL 0010			57													
0010	19+19.70	ROADWAY		0.109	0.105							64			2	1
0010	19+25	LT & RT				23										
0010	19+30.72	ROADWAY		0.109	0.105							64			2	1
0010	41+02.06	ROADWAY		0.109	0.105							64			2	1
0010	41+08	LT & RT				23										
0010	41+13.12	ROADWAY		0.109	0.105							64			2	1
0010	7+57.61 'D'	22.7' LT		0.064	0.060			1	28							
0010	7+84.86 'D'	23.3' LT						1								
0010	8+46.46 'D'	21.6' LT		0.064	0.060				1	30						
0010	8+75.18 'D'	21.2' LT							1							
0010	10+28.27 'D'	27.8' LT											52	1	1	1
0010	10+32.99 'D'	23.2' RT												1	1	
TOTAL 0010						46		2	2	28	30	256	52	2	10	5

EROSION CONTROL ITEMS

CURB AND GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0553	601.0557	650.5500	REMARKS
					CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	
0010	10+30 'D'	-	20+58	DORE RD RT		57	57	INTERSECTION
0010	10+12 'D'	-	21+76	DORE RD LT		85	85	INTERSECTION
0010	26+00	-	29+50	LT	347		347	
TOTAL 0010					347	142	489	

CATEGORY	STATION	TO	STATION	LOCATION	628.2004	628.2008	628.7504	628.7555
					EROSION MAT CLASS I TYPE B SY	EROSION MAT URBAN CLASS I TYPE B SY	TEMPORARY DITCH CHECKS LF	CULVERT PIPE CHECKS EACH
0010	17+00	-		RT & LT			20	
0010	20+25	-		LT			10	
0010	18+61		20+09	LT		297		
0010	18+67		20+83	RT		406		
0010	8+18 'D'	-		LT			10	
0010	9+54 'D'	-		LT			10	
0010	7+55 'D'	-		LT	6			2
0010	7+90 'D'	-		LT	6			
0010	8+43 'D'	-		LT	7			2
0010	8+78 'D'	-		LT	7			
0010	10+12 'D'	-	21+76	DORE RD LT	97			5
0010	10+30 'D'	-	20+58	DORE RD RT	84			
0010	23+00	-		RT & LT			20	
0010	25+50	-		LT				2
0010	26+00	-	29+50	LT	186			
0010	30+00	-		LT				2
0010	40+00	-		RT & LT			20	
0010	40+58	-	41+53	LT		176		
0010	40+52	-	41+66	RT		228		
0010		-		UNDISTRIBUTED	99	277	23	4
TOTAL 0010					492	1,384	93	17

RIPRAP

SILT FENCE

CATEGORY	STATION	TO	STATION	LOCATION	606.0300	645.0120
					RIPRAP HEAVY CY	GEOTEXTILE TYPE HR SY
0010	19+02	-	19+48	LT	48	103
0010	19+06	-	19+45	RT	38	86
0010	40+87	-	41+28	LT	47	102
0010	40+87	-	41+28	RT	63	125
TOTAL 0010					196	416

CATEGORY	STATION	TO	STATION	LOCATION	628.1504	628.1520
					SILT FENCE LF	SILT FENCE MAINTENANCE LF
0010	18+62	-	20+09	LT	117	117
0010	18+45	-	20+88	RT	206	206
0010	40+44	-	41+81	LT	120	120
0010	40+44	-	41+71	RT	98	98
0010				UNDISTRIBUTED	136	136
TOTAL 0010					677	677

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RESTORATION ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
0010	15+00	-	30+50	RT	2,731	2,325	2.1	89	89	73
0010	15+00	-	6+03 'D'	LT	1,678	1,293	1.3	55	55	46
0010	6+03 'D'	-	7+64 'D'	LT	153	153	0.2	5	5	4
0010	7+80 'D'	-	8+50 'D'	LT	216	216	0.2	7	7	5
0010	8+60 'D'	-	23+50	LT	3,090	2,988	2.1	87	87	71
0010	23+88	-	30+50	LT	586	437	0.5	18	18	14
0010	40+00	-	42+00	LT	264	88	0.3	9	9	7
0010	40+00	-	42+00	RT	359	131	0.3	12	12	10
0010	12+15	-	12+78	LT	237	237	0.2	8	8	6
0010	UNDISTRIBUTED				1,863	1,574	1.5	58	58	48
TOTAL 0010					8,718	7,412	7.2	290	290	237

REMOVING SIGNS

CATEGORY	STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	19+07	LT	1	1	BRIDGE HASH MARKS
0010	19+09	RT	1	1	BRIDGE HASH MARKS
0010	19+38	LT	1	1	BRIDGE HASH MARKS
0010	19+39	RT	1	1	BRIDGE HASH MARKS
0010	22+10	LT	1	1	ARROW
0010	22+10	LT	1	1	STOP
0010	22+93	LT	1	1	ARROW
0010	28+93	LT	2	1	CURVE
0010	40+99	LT	1	1	BRIDGE HASH MARKS
0010	40+99	RT	1	1	BRIDGE HASH MARKS
0010	41+18	LT	1	1	BRIDGE HASH MARKS
0010	41+19	RT	1	1	BRIDGE HASH MARKS
0010	12+51 'J'	LT	1	1	STOP
TOTAL 0010			14	13	

MARKERS ROW

CATEGORY	STATION	LOCATION	POINT	633.5100 MARKERS ROW EACH
0010	14+40	29.55' LT	200	1
0010	15+40	55' LT	201	1
0010	20+75	68.23' LT	202	1
0010	20+81	181.04' LT	203	1
0010	20+56	339.12' LT	204	1
0010	14+15	36.46' RT	101	1
0010	14+55	60' RT	102	1
0010	21+25	37.92' RT	103	1
0010	24+00	36' RT	104	1
0010	26+00	31.10' RT	105	1
TOTAL 0010				10

TRAFFIC CONTROL ITEMS

CATEGORY	STATION	LOCATION	DURATION	EACH	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	REMARKS
0010	---	UNDISTRIBUTED	123	20	2,460	---	---	-
0010	---	BEGINNING OF PROJECT	123	---	---	9	1,107	8 984 MAINLINE CLOSURE
0010	---	DORE RD	123	---	---	2	246	2 246 SIDEROAD CLOSURE
0010	---	CROWLEY RD	123	---	---	2	246	2 246 SIDEROAD CLOSURE
0010	---	SWEENEY LN	123	---	---	2	246	2 246 SIDEROAD CLOSURE
0010	---	DELMORE RD	123	---	---	2	246	2 246 SIDEROAD CLOSURE
0010	169+00	END OF PROJECT	123	---	---	9	1,107	8 984 MAINLINE CLOSURE
TOTAL 0010					2,460	3,198	2,952	

PERMANENT SIGNING

CATEGORY	STATION	LOCATION	CODE	SIZE	634.0614 POSTS WOOD 4X6-INCH X 14- FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	REMARKS
0010	10+55 'D'	DORE RD RT	R1-1	30" X 30"	1	5.18	STOP
0010	12+23 'J'	CTH JLT	R1-1	30" X 30"	1	5.18	STOP
TOTAL 0010					2	10.36	

NOTE: FOLLOW SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

3

TRAFFIC CONTROL SIGNS

643.0900
TRAFFIC
CONTROL SIGNS

CATEGORY	LOCATION	CODE	DURATION	EACH	DAY	REMARKS
0010	CTH HH	W20-3A	123	1	123	RD CLOSED AHEAD
0010	CTH HH	R11-3	123	2	246	ROAD CLOSED 0.5 MILES AHEAD AT TOWN HALL RD
0010	CTH HH	W20-3C	123	1	123	RD CLOSED 1000 FT
0010	CTH HH	W20-3D	123	1	123	RD CLOSED 500 FT
0010	CTH HH	R11-2B, R11-4	123	2	246	BRIDGE OUT, RD CLOSED TO THRU TRAFFIC
0010	DORE RD	W20-3A	123	1	123	RD CLOSED AHEAD
0010	DORE RD	W20-3D	123	1	123	RD CLOSED 500 FT
0010	DORE RD	R11-4	123	1	123	RD CLOSED TO THRU TRAFFIC
0010	CROWLEY RD	W20-3A	123	1	123	RD CLOSED AHEAD
0010	CROWLEY RD	W20-3D	123	1	123	RD CLOSED 500 FT
0010	CROWLEY RD	R11-4	123	1	123	RD CLOSED TO THRU TRAFFIC
0010	SWEENEY LN	W20-3A	123	1	123	RD CLOSED AHEAD
0010	SWEENEY LN	W20-3D	123	1	123	RD CLOSED 500 FT
0010	SWEENEY LN	R11-4	123	1	123	RD CLOSED TO THRU TRAFFIC
0010	DELMORE RD	W20-3A	123	1	123	RD CLOSED AHEAD
0010	DELMORE RD	W20-3D	123	1	123	RD CLOSED 500 FT
0010	DELMORE RD	R11-4	123	1	123	RD CLOSED TO THRU TRAFFIC
0010	CTH J	W20-1A	123	1	123	ROAD WORK AHEAD
0010	CTH HH	W20-3A	123	1	123	RD CLOSED AHEAD
0010	CTH HH	R11-3	123	2	246	ROAD CLOSED 0.5 MILES AHEAD AT CTH J/MCMAHON
0010	CTH HH	W20-3C	123	1	123	RD CLOSED 1000 FT
0010	CTH HH	W20-3D	123	1	123	RD CLOSED 500 FT
0010	CTH HH	R11-2B, R11-4	123	2	246	BRIDGE OUT, RD CLOSED TO THRU TRAFFIC
TOTAL 0010				3,321		

NOTE: FOLLOW SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

NO PASSING ZONES

CATEGORY	STATION	TO	STATION	LOCATION	648.0100 LOCATING NO-PASSING ZONES MI
0010	10+00	-	171+51	ROADWAY	3.06
TOTAL 0010					3.06

PAVEMENT MARKINGS

646.1020

MARKING LINE
EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	10+00	-	18+03	CENTERLINE	1,004	YELLOW, PASSING SB ONLY
0010	18+03	-	115+83	CENTERLINE	19,559	YELLOW, NO PASSING
0010	115+83	-	127+37	CENTERLINE	1,443	YELLOW, PASSING NB ONLY
0010	127+37	-	133+37	CENTERLINE SKIPS	150	YELLOW, PASSING BOTH
0010	133+37	-	139+87	CENTERLINE	813	YELLOW, PASSING SB ONLY
0010	139+87	-	171+51	CENTERLINE	6,328	YELLOW, NO PASSING
0010	10+00	-	20+58	EDGELINE LT	1,078	WHITE, SOLID
0010	10+00	-	50+78	EDGELINE RT	4,078	WHITE, SOLID
0010	21+75	-	22+49	EDGELINE LT	19	WHITE, SKIPS
0010	22+49	-	58+32	EDGELINE LT	3,579	WHITE, SOLID
0010	51+70	-	73+64	EDGELINE RT	2,194	WHITE, SOLID
0010	58+96	-	73+25	EDGELINE LT	1,430	WHITE, SOLID
0010	74+25	-	126+13	EDGELINE LT	5,185	WHITE, SOLID
0010	74+17	-	168+86	EDGELINE RT	9,469	WHITE, SOLID
0010	168+86	-	169+27	EDGLINE RT	11	WHITE, SKIPS
0010	126+92	-	171+51	EDGELINE LT	4,458	WHITE SOLID
0010	170+43	-	171+51	EDGELINE RT	110	WHITE, SOLID
TOTAL 0010					60,908	

CONSTRUCTION STAKING

650.4500 CONSTRUCTION STAKING SUBGRADE LF
650.5000 CONSTRUCTION STAKING BASE LF
650.9920 CONSTRUCTION STAKING SLOPE STAKES LF

CATEGORY	STATION	TO	STATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	10+00	-	15+00	500	500	---
0010	15+00	-	30+50	1,550	1,550	1,550
0010	6+03 'D'	-	10+72 'D'	470	470	470
0010	30+50	-	40+00	950	950	---
0010	40+00	-	42+00	200	200	200
0010	42+00	-	126+50	8,450	8,450	---
0010	126+50	-	171+51	4,501	4,501	---
0010	12+11 'J'	-	12+78 'J'	67	67	67
TOTAL 0010				16,688	16,688	2,287

SAWING ITEMS

CATEGORY	STATION	LOCATION	690.0150 SAWING ASPHALT LF	REMARKS
0010	10+00	CTH HH	23	START OF CONSTRUCTION
0010	6+03.31 'D'	DORE RD	20	START OF CONSTRUCTION
0010	25+31	LT	21	DRIVEWAY
0010	44+06	RT	21	DRIVEWAY
0010	51+20	RT	48	DRIVEWAY
0010	58+60	LT	43	DRIVEWAY
0010	73+75	LT	31	CROWLEY RD
0010	73+92	RT	20	SWEENEY LN
0010	104+59	RT	21	DRIVEWAY
0010	122+47	LT	31	DRIVEWAY
0010	126+55	LT	32	DELMORE RD
0010	141+02	RT	26	DRIVEWAY
0010	143+13	RT	39	DRIVEWAY
0010	145+94	RT	29	DRIVEWAY
0010	148+58	RT	23	DRIVEWAY
0010	149+48	LT	23	DRIVEWAY
0010	12+78 'J'	CTH J	35	END OF CONSTRUCTION
0010	171+51	CTH HH	25	END OF CONSTRUCTION
TOTAL 0010			511	

SALVAGED ASPHALTIC PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0195.01 SPECIAL (01. SALVAGED ASPHALTIC PAVEMENT) TON	SPV.0195.02 SPECIAL (02. SALVAGED ASPHALTIC PAVEMENT BASE) TON	REMARKS
0010	10+00	-	171+51	CTH HH & CTH J	10,601	---	MILLING
0010	10+00	-	15+00	ROADWAY/SHOULDERS	---	346	PAVEMENT REPLACEMENT
0010	30+50	-	40+00	ROADWAY/SHOULDERS	---	657	PAVEMENT REPLACEMENT
0010	42+00	-	126+50	ROADWAY/SHOULDERS	---	5842	PAVEMENT REPLACEMENT
0010	126+50	-	171+50.74	ROADWAY/SHOULDERS	---	3112	PAVEMENT REPLACEMENT
0010	12+14'J'	-	12+77.57'J'	ROADWAY/SHOULDERS	---	80	PAVEMENT REPLACEMENT
TOTAL 0010					10,601	10,037	

3

3

R/W PROJECT NUMBER 5808-00-01	SHEET NUMBER	TOTAL SHEETS
R/W PROJECT NUMBER 5808-00-01	4.01	9
PLAT OF RIGHT OF WAY REQUIRED FOR REEDSBURG - LYNDON STATION SOUTH COUNTY LINE TO CTH J		
CTH HH	JUNEAU COUNTY	

CONVENTIONAL SYMBOLS

SECTION LINE		PARCEL NUMBER	UTILITY NUMBER
QUARTER LINE		SECTION CORNER	R/W MONUMENT
SIXTEENTH LINE		NOTATION FOR COMBUSTIBLE FLUIDS	NON-MONUMENTED R/W POINT
NEW REFERENCE LINE		NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES	FOUND IRON PIN
NEW R/W LINE		CAUTION	VALVE (GAS, WATER, ETC.)
EXISTING R/W LINE			SIGN
PROPERTY LINE			OFF-PREMISE SIGN
LOT, TIE, AND OTHER MINOR LINES			
SLOPE INTERCEPT			
CORPORATE LIMITS			
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)			
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)			

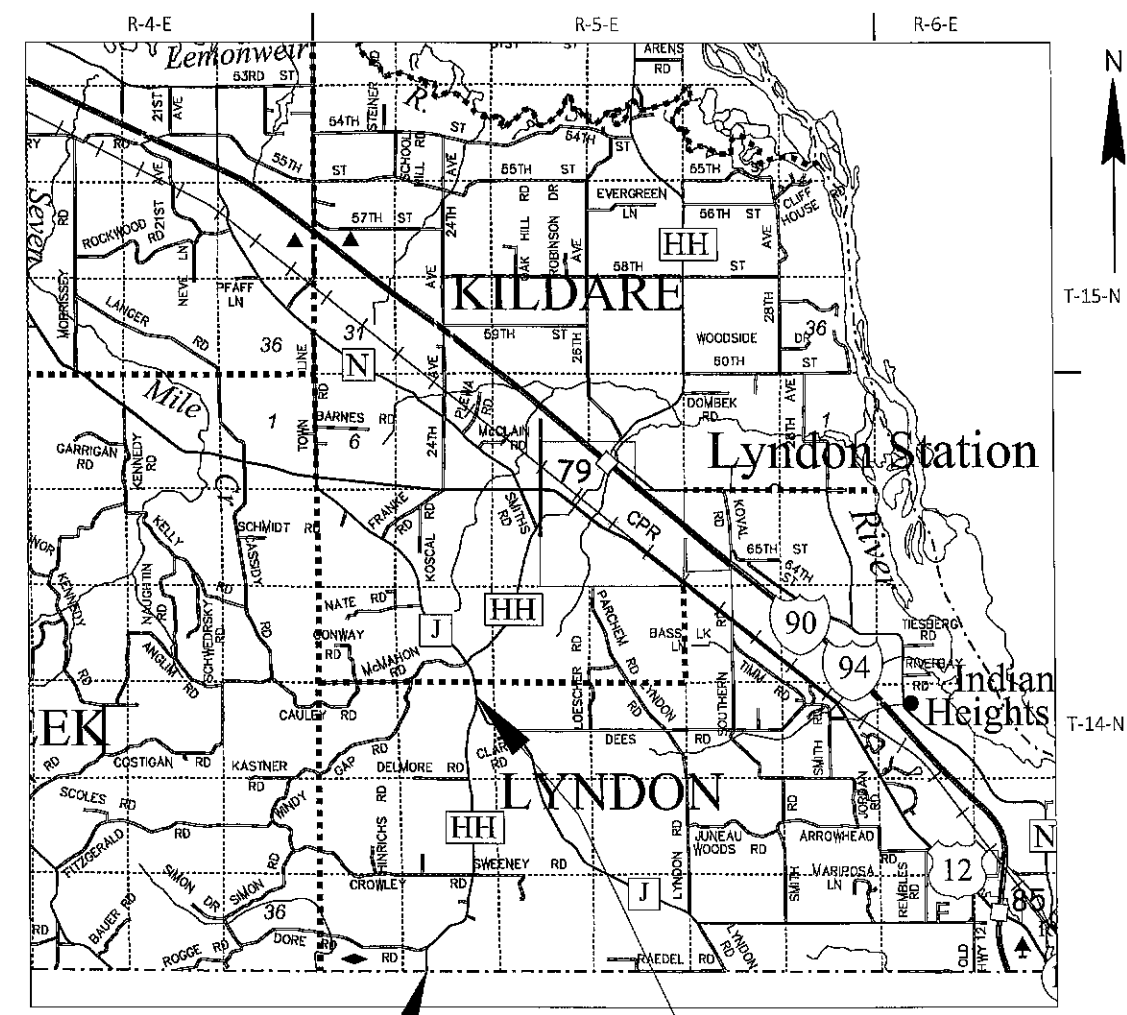
TEMP. LIMITED EASEMENT AREA		ACCESS CONTROLLED BY ACQUISITION	
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)		NO ACCESS (BY STATUTORY AUTHORITY)	
TRANSMISSION STRUCTURES		ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)	
BUILDING		NO ACCESS (NEW HIGHWAY)	
BUILDING (TO BE REMOVED)		NATIONAL GEODETIC SURVEY MONUMENT	
BRIDGE		SIXTEENTH CORNER MONUMENT	
		PARALLEL OFFSETS	

CONVENTIONAL UTILITY SYMBOLS

WATER		LONG CHORD	LCH
GAS		LONG CHORD BEARING	LCB
TELEPHONE		RADIUS	R
OVERHEAD TRANSMISSION LINES		DEGREE OF CURVE	D
ELECTRIC		CENTRAL ANGLE	Δ/DELTA
CABLE TELEVISION		LENGTH OF CURVE	L
FIBER OPTIC		TANGENT	T
SANITARY SEWER		DIRECTION AHEAD	DA
STORM SEWER		DIRECTION BACK	DB
ELECTRIC TOWER			

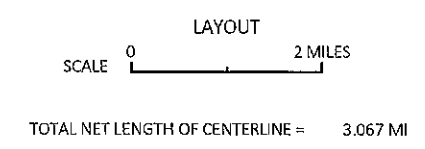
CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	NUMBER	NO
ACRES	AC	OUTLOT	OL
AHEAD	AH	PAGE	P
ALUMINUM	ALUM	POINT OF TANGENCY	PT
AND OTHERS	ET AL	PROPERTY LINE	PL
BACK	BK	RECORDED AS	(100')
BLOCK	BLK	REEL / IMAGE	R/I
CENTERLINE	C/L	REFERENCE LINE	R/L
CERTIFIED SURVEY MAP	CSM	PERMANENT LIMITED EASEMENT	PLE
CONCRETE	CONC	POINT OF BEGINNING	POB
COUNTY	CO	POINT OF CURVATURE	PC
COUNTY TRUNK HIGHWAY	CTH	POINT OF COMPOUND CURVE	PCC
DISTANCE	DIST	POINT OF INTERSECTION	PI
CORNER	COR	REMAINING	REM
DOCUMENT NUMBER	DOC	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
EASEMENT	EASE	RIGHT	RT
EXISTING	EX	RIGHT OF WAY	R/W
GARAGE	GRG	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
HOUSE	HSE	STATION	STA
IDENTIFICATION	ID	TELEPHONE PEDESTAL	TP
LAND CONTRACT	LC	TEMPORARY LIMITED EASEMENT	TLE
LEFT	LT	TRANSPORTATION PROJECT PLAT	TPP
MONUMENT	MON	UNITED STATES HIGHWAY	USH
NATIONAL GEODETIC SURVEY	NGS	VOLUME	V



BEGIN RELOCATION ORDER
 STA 9+97.31
 1.43' SOUTH OF AND 1,300.37' EAST OF THE
 SOUTHWEST CORNER OF SEC. 32, T-14-N, R-5-E

END RELOCATION ORDER
 STA 171+89.22
 834.98' SOUTH OF AND 916.41' WEST OF THE
 NORTHEAST CORNER OF SEC. 20, T-14-N, R-5-E



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), JUNEAU COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

EXISTING HIGHWAY RIGHT-OF-WAY FOR CTH HH AND SIDE ROADS ESTABLISHED FROM THE CENTERLINE OF EXISTING PAVEMENTS, RECORDED PLATS OF SURVEY, AND CERTIFIED SURVEY MAPS.

DIMENSIONS FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

CAUTION:
 THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

ACCEPTED FOR
 JUNEAU COUNTY

DATE: 12-2-2020

(Highway Commissioner)

ORIGINAL PLAT PREPARED BY

MSA

ENGINEERING | ARCHITECTURE | SURVEYING
 FUNDING | PLANNING | ENVIRONMENTAL
 1230 SOUTH BOULEVARD, BARABOO, WI 53913
 (608) 356-2771 www.msa-ps.com
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WISCONSIN
 LAND SURVEYOR

ERIC J. SCHOOT
 S-3149
 Dubuque
 IA

REVISION DATE

12-2-2020

DATE: 12/1/2020

(Professional Land Surveyor)

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO JUNEAU COUNTY HIGHWAY DEPARTMENT.

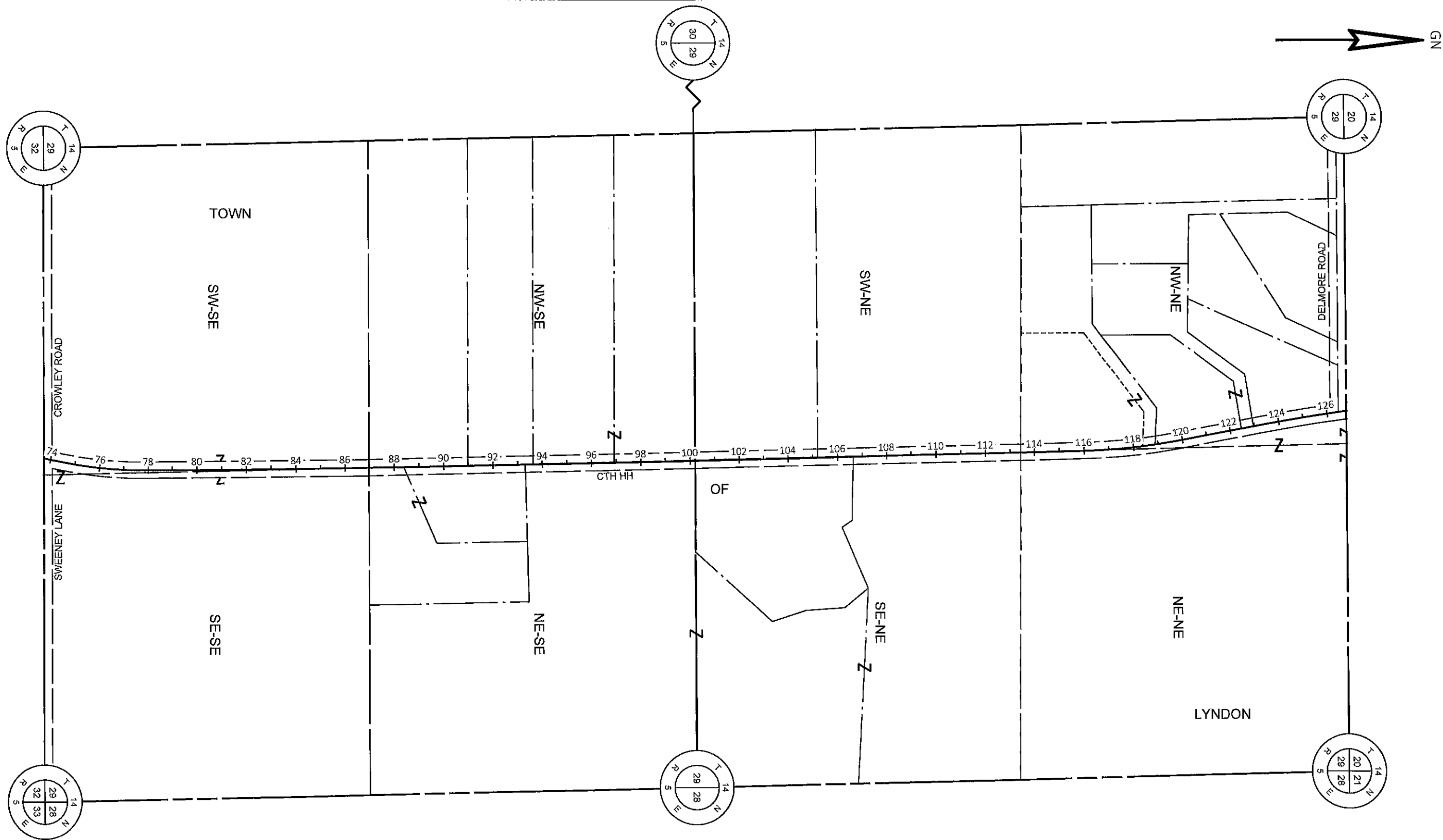
PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W NEW AC	R/W EXISTING AC	R/W TOTAL AC	TLE AC
1	4.06	DAVID G BRUEGGEMAN & MATTHEW A BRUEGGEMAN	FEE & TLE	0.79 AC	1.52 AC	2.31 AC	0.01 AC
2	4.06	ROBERT H GOEHL	FEE	0.63 AC	0.76 AC	1.39 AC	---
3	4.06 & 4.07	LEE & PATTI FINCH	FEE & TLE	0.10 AC	0.44 AC	0.54 AC	0.01 AC
4	4.07	ROGER D FIELD	FEE & TLE	---	0.41 AC	0.41 AC	0.01 AC
5	4.08	RONALD A & WILMA J EVERT	FEE	0.05 AC	---	0.05 AC	---
7	409.00	SMITH VALLEY FARMS, LLC	FEE	0.05 AC	0.73 AC	0.78 AC	---
50	4.06 & 4.07	OAKDALE ELECTRIC COOPERATIVE	RELEASE OF RIGHTS	---	---	---	---
51	4.06	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS	---	---	---	---
52	4.09	CHARTER COMMUNICATION	RELEASE OF RIGHTS	---	---	---	---

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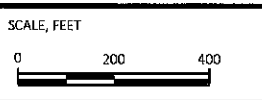
REVISION DATE	DATE NOVEMBER 30, 2020	SCALE, FEET	HWY: CTH HH	STATE R/W PROJECT NUMBER 5808-00-01	PLAT SHEET 4.02
		0 N/A	COUNTY: JUNEAU	CONSTRUCTION PROJECT NUMBER 5808-00-73	PS&E SHEET

E



REVISION DATE	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

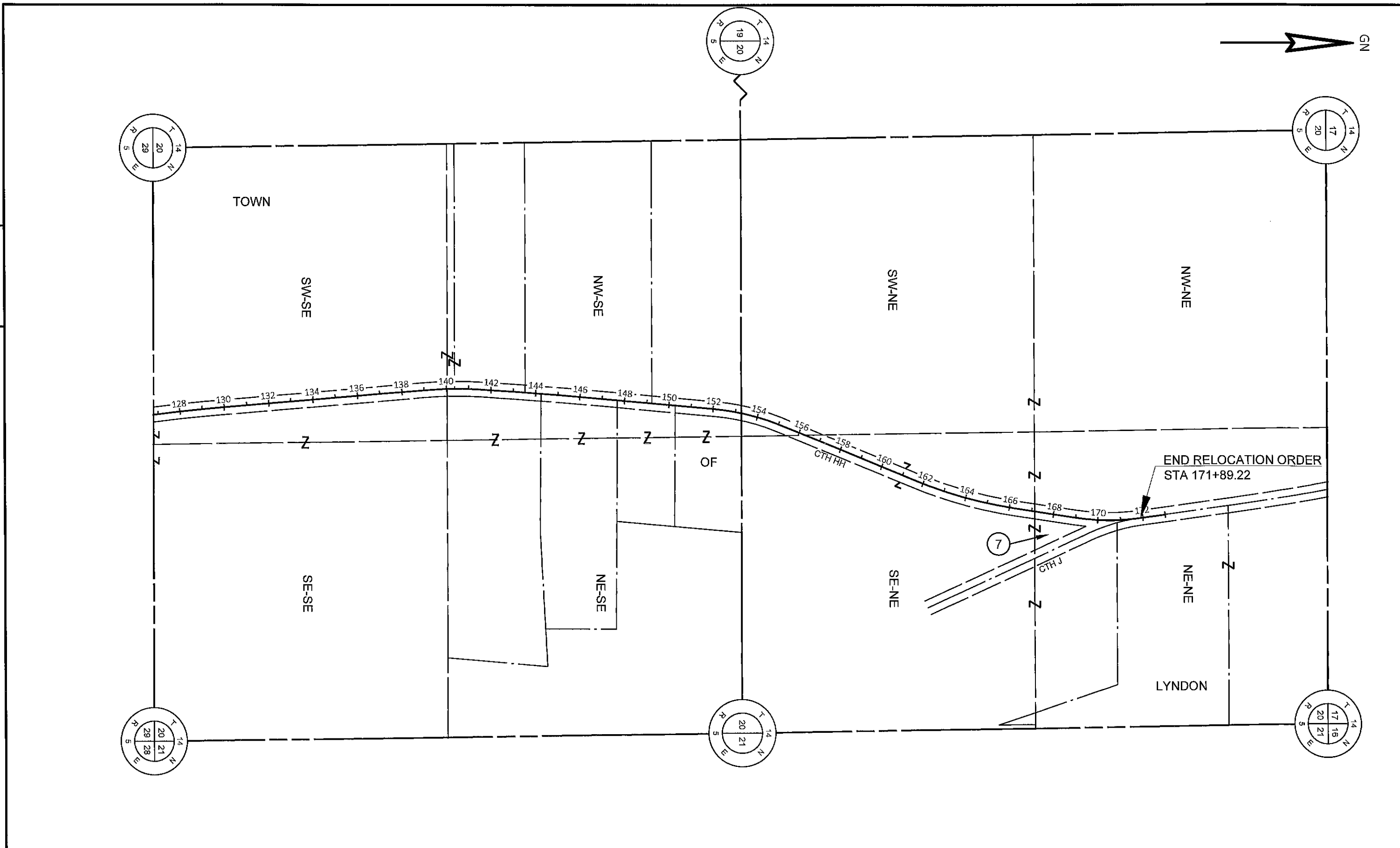
DATE NOVEMBER 30, 2020



HWY: CTH HH
 COUNTY: JUNEAU

STATE R/W PROJECT NUMBER 5808-00-01
 CONSTRUCTION PROJECT NUMBER 5808-00-73

PLAT SHEET 4.04
 PS&E SHEET **E**

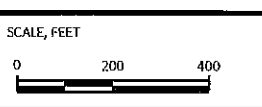


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REVISION DATE	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

DATE NOVEMBER 30, 2020



HWY: CTH HH
COUNTY: JUNEAU

STATE R/W PROJECT NUMBER 5808-00-01
CONSTRUCTION PROJECT NUMBER 5808-00-73

PLAT SHEET 4.05
PS&E SHEET

FILE NAME: 040101_RP.DWG
LAYOUT NAME - 040105_rp

PLOT DATE: 12/1/2020 3:09 PM

PLOT BY: BRAD LEE

PLOT NAME:

PLOT SCALE: 1 IN=400 FT

WISDOT/CADD SHEET 75

E

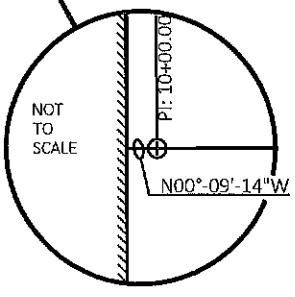
EXISTING MONUMENTS			
PT. NO.	Y	X	DESCRIPTION
IP500	101,397.387	500,956.061	3/4" IRON ROD
IP501	101,441.333	501,006.447	3/4" IRON ROD
IP600	100,082.095	500,812.416	3/4" IRON ROD
IP601	101,285.460	500,574.541	3/4" IRON ROD
IP602	101,304.839	500,620.172	3/4" IRON ROD
IP603	101,324.884	500,666.413	3/4" IRON ROD
IP604	101,344.669	500,712.678	3/4" IRON ROD
IP605	101,397.078	500,848.795	3/4" IRON ROD
IP606	101,397.545	500,856.622	3/4" IRON ROD
IP607	101,420.665	500,889.561	3/4" IRON ROD
IP608	101,495.654	500,968.932	3/4" IRON ROD

R/W POINT COORDINATES		
PT. NO.	Y	X
100	100,082.020	500,878.417
101	100,499.497	500,881.014
102	100,539.339	500,904.823
103	101,197.049	500,909.221
104	101,424.708	501,028.963
200	100,524.938	500,815.171
201	100,625.106	500,790.394
202	101,172.424	500,794.054
203	101,202.364	500,685.063
204	101,198.396	500,523.343
205	101,262.708	500,508.314
206	101,283.773	500,570.940

PI = 10+00.00
Y = 100,084.750
X = 500,845.533
Δ = 00° 13' 50" LT

PI = 22+92.24
Y = 101,376.958
X = 500,850.423
Δ = 55° 56' 33" RT
D = 08° 54' 39"
T = 341.48'
L = 627.81'
R = 643.00'
PC = 19+50.76
PT = 25+78.57
DA = N56° 19' 32"E

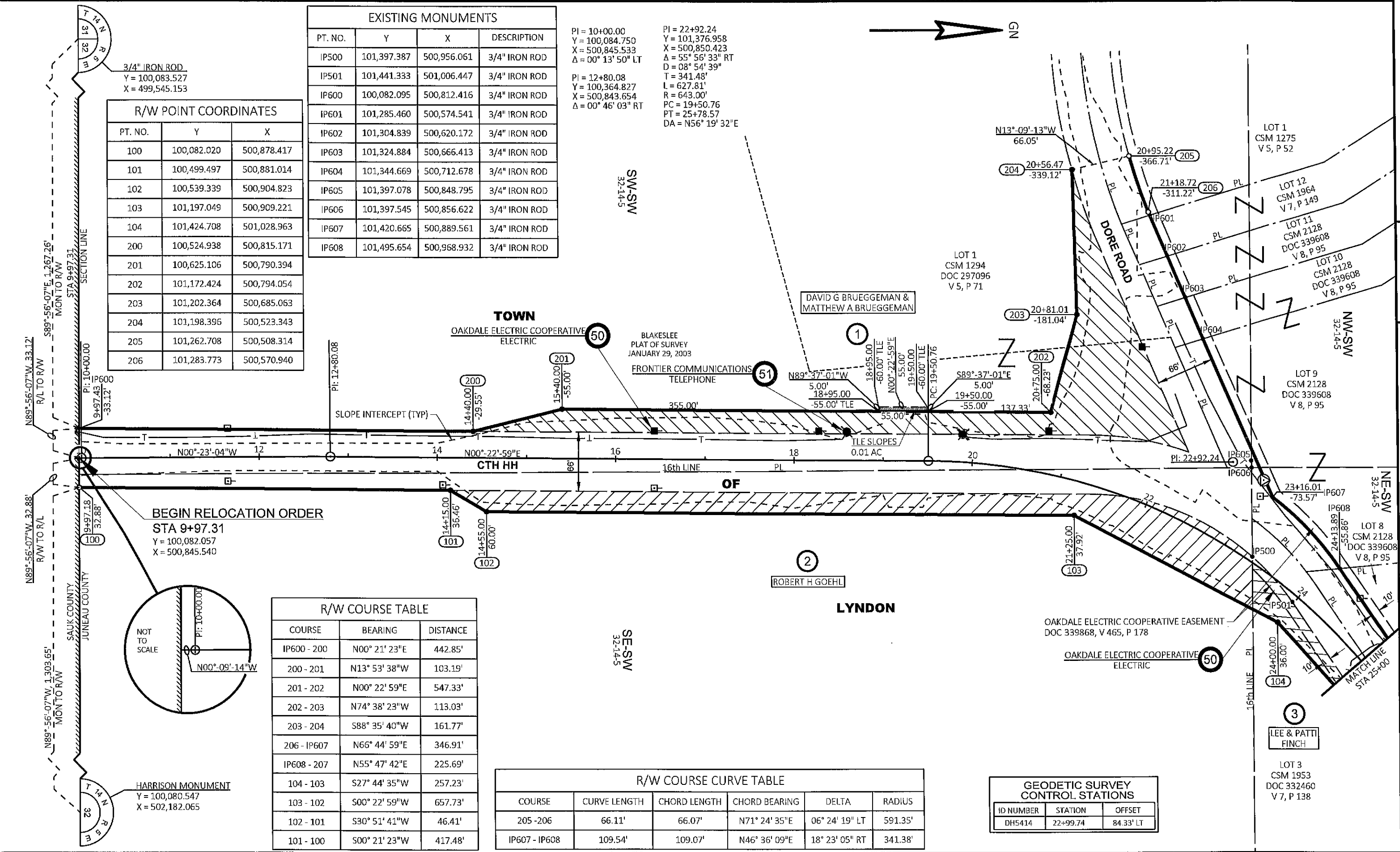
BEGIN RELOCATION ORDER
STA 9+97.31
Y = 100,082.057
X = 500,845.540



R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
IP600 - 200	N00° 21' 23"E	442.85'
200 - 201	N13° 53' 38"W	103.19'
201 - 202	N00° 22' 59"E	547.33'
202 - 203	N74° 38' 23"W	113.03'
203 - 204	S88° 35' 40"W	161.77'
206 - IP607	N66° 44' 59"E	346.91'
IP608 - 207	N55° 47' 42"E	225.69'
104 - 103	S27° 44' 35"W	257.23'
103 - 102	S00° 22' 59"W	657.73'
102 - 101	S30° 51' 41"W	46.41'
101 - 100	S00° 21' 23"W	417.48'

R/W COURSE CURVE TABLE					
COURSE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	DELTA	RADIUS
205 - 206	66.11'	66.07'	N71° 24' 35"E	06° 24' 19" LT	591.35'
IP607 - IP608	109.54'	109.07'	N46° 36' 09"E	18° 23' 05" RT	341.38'

GEODETIC SURVEY CONTROL STATIONS		
ID NUMBER	STATION	OFFSET
DH5414	22+99.74	84.33' LT



REVISION DATE	DATE NOVEMBER 30, 2020	SCALE, FEET 0 50 100	HWY: CTH HH	STATE R/W PROJECT NUMBER 5808-00-01	PLAT SHEET 4.06
			COUNTY: JUNEAU	CONSTRUCTION PROJECT NUMBER 5808-00-73	PS&E SHEET

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R/W POINT COORDINATES		
PT. NO.	Y	X
105	101,552.298	501,169.672
106	101,567.941	501,192.685
107	101,812.831	501,475.955
207	101,622.525	501,155.582
208	101,857.435	501,427.308

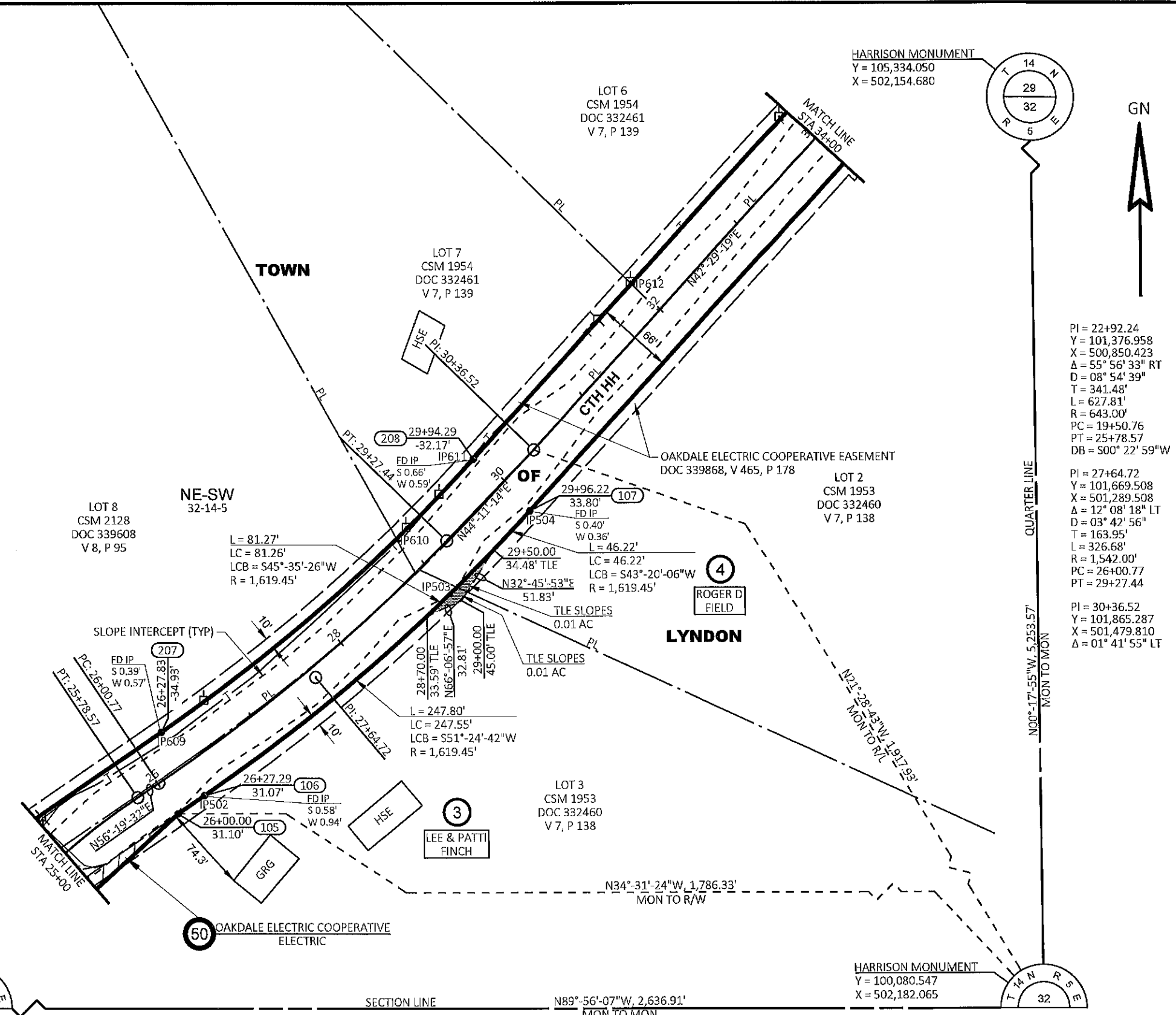
EXISTING MONUMENTS			
PT. NO.	Y	X	DESCRIPTION
IP502	101,567.361	501,191.746	3/4" IRON ROD
IP503	101,740.984	501,406.454	3/4" IRON ROD
IP504	101,812.427	501,475.598	3/4" IRON ROD
IP609	101,622.136	501,155.010	3/4" IRON ROD
IP610	101,788.396	501,360.573	3/4" IRON ROD
IP611	101,856.772	501,426.723	3/4" IRON ROD
IP612	102,007.946	501,565.300	3/4" IRON ROD

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
208 - 209	N42° 31' 03"E	409.52'
106 - 105	S55° 47' 42"W	27.83'
105 - 104	S47° 47' 57"W	189.94'

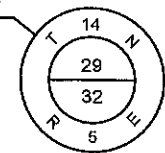
R/W COURSE CURVE TABLE					
COURSE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	DELTA	RADIUS
207 - 208	359.99'	359.19'	N49° 09' 22"E	13° 16' 40" LT	1553.45'
107 - 106	375.29'	374.45'	S49° 09' 22"W	13° 16' 40" RT	1619.45'



3/4" IRON ROD
Y = 100,083.527
X = 499,545.153



HARRISON MONUMENT
Y = 105,334.050
X = 502,154.680



GN

PI = 22+92.24
Y = 101,376.958
X = 500,850.423
Δ = 55° 56' 33" RT
D = 08° 54' 39"
T = 341.48'
L = 627.81'
R = 643.00'
PC = 19+50.76
PT = 25+78.57
DB = 500° 22' 59"W

PI = 27+64.72
Y = 101,669.508
X = 501,289.508
Δ = 12° 08' 18" LT
D = 03° 42' 56"
T = 163.95'
L = 326.68'
R = 1,542.00'
PC = 26+00.77
PT = 29+27.44

PI = 30+36.52
Y = 101,865.287
X = 501,479.810
Δ = 01° 41' 55" LT

REVISION DATE	_____	_____	_____	_____
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DATE NOVEMBER 30, 2020



HWY: CTH HH
COUNTY: JUNEAU

STATE R/W PROJECT NUMBER 5808-00-01
CONSTRUCTION PROJECT NUMBER 5808-00-73

PLAT SHEET 4.07
PS&E SHEET E

PI = 38+55.96
 Y = 102,469.555
 X = 502,033.299
 $\Delta = 15^\circ 54' 57''$ RT
 $D = 06^\circ 01' 52''$
 $T = 132.80'$
 $L = 263.89'$
 $R = 950.00'$
 $PC = 37+23.16$
 $PT = 39+87.05$

PI = 41+13.55
 Y = 102,605.408
 X = 502,254.163
 $\Delta = 20^\circ 35' 06''$ RT
 $D = 08^\circ 13' 56''$
 $T = 126.39'$
 $L = 250.06'$
 $R = 696.00'$
 $PC = 39+87.16$
 $PT = 42+37.22$

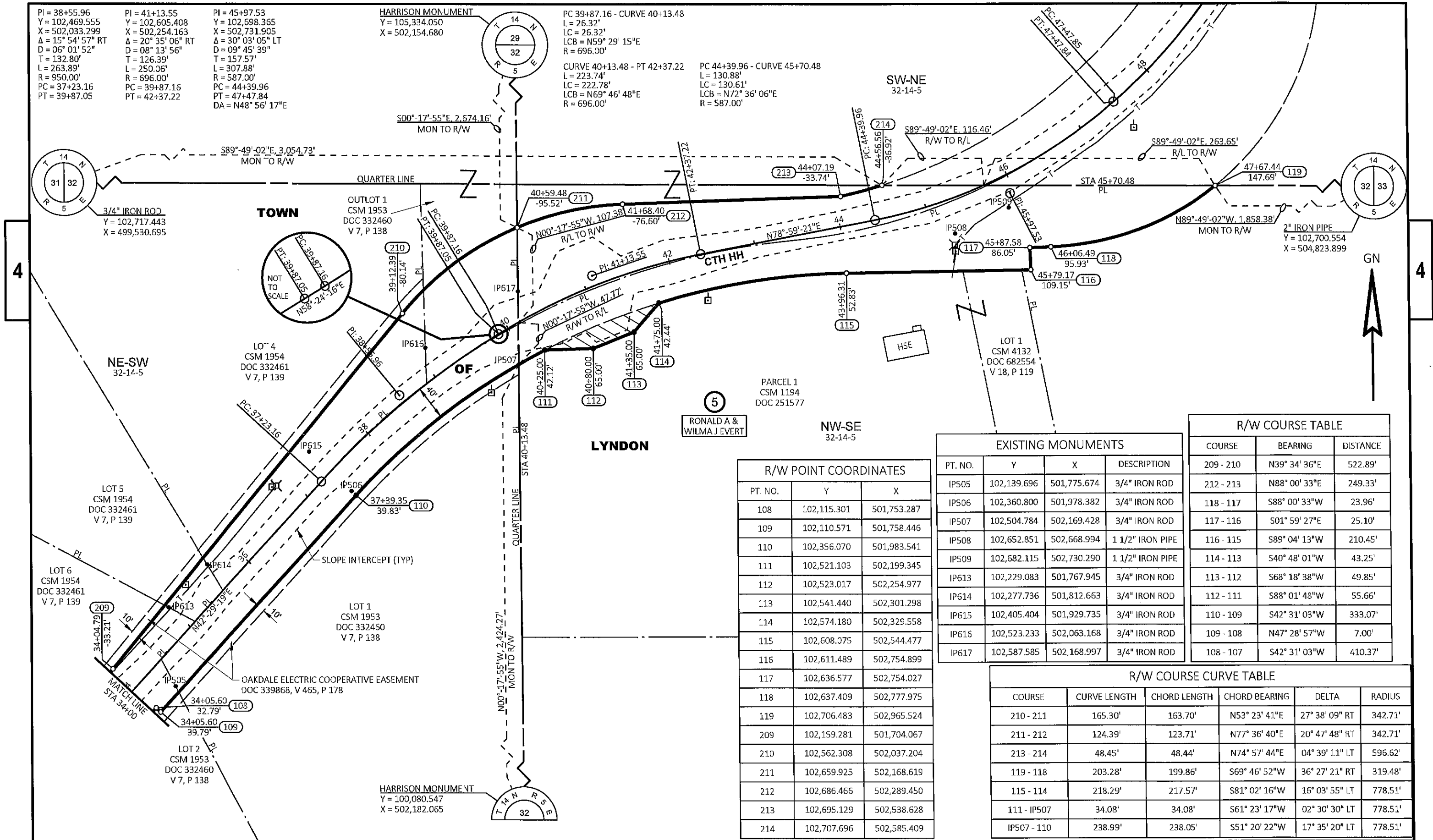
PI = 45+97.53
 Y = 102,698.365
 X = 502,731.905
 $\Delta = 30^\circ 03' 05''$ LT
 $D = 09^\circ 45' 39''$
 $T = 157.57'$
 $L = 307.88'$
 $R = 587.00'$
 $PC = 44+39.96$
 $PT = 47+47.84$
 $DA = N48^\circ 56' 17''$ E

HARRISON MONUMENT
 Y = 105,334.050
 X = 502,154.680

PC 39+87.16 - CURVE 40+13.48
 $L = 26.32'$
 $LC = 26.32'$
 $LCB = N59^\circ 29' 15''$ E
 $R = 696.00'$

CURVE 40+13.48 - PT 42+37.22
 $L = 223.74'$
 $LC = 222.78'$
 $LCB = N69^\circ 46' 48''$ E
 $R = 696.00'$

PC 44+39.96 - CURVE 45+70.48
 $L = 130.88'$
 $LC = 130.61'$
 $LCB = N72^\circ 36' 06''$ E
 $R = 587.00'$



R/W POINT COORDINATES		
PT. NO.	Y	X
108	102,115.301	501,753.287
109	102,110.571	501,758.446
110	102,356.070	501,983.541
111	102,521.103	502,199.345
112	102,523.017	502,254.977
113	102,541.440	502,301.298
114	102,574.180	502,329.558
115	102,608.075	502,544.477
116	102,611.489	502,754.899
117	102,636.577	502,754.027
118	102,637.409	502,777.975
119	102,706.483	502,965.524
209	102,159.281	501,704.067
210	102,562.308	502,037.204
211	102,659.925	502,168.619
212	102,686.466	502,289.450
213	102,695.129	502,538.628
214	102,707.696	502,585.409

EXISTING MONUMENTS			
PT. NO.	Y	X	DESCRIPTION
IP505	102,139.696	501,775.674	3/4" IRON ROD
IP506	102,360.800	501,978.382	3/4" IRON ROD
IP507	102,504.784	502,169.428	3/4" IRON ROD
IP508	102,652.851	502,668.994	1 1/2" IRON PIPE
IP509	102,682.115	502,730.290	1 1/2" IRON PIPE
IP613	102,229.083	501,767.945	3/4" IRON ROD
IP614	102,277.736	501,812.663	3/4" IRON ROD
IP615	102,405.404	501,929.735	3/4" IRON ROD
IP616	102,523.233	502,063.168	3/4" IRON ROD
IP617	102,587.585	502,168.997	3/4" IRON ROD

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
209 - 210	N39° 34' 36" E	522.89'
212 - 213	N88° 00' 33" E	249.33'
118 - 117	S88° 00' 33" W	23.96'
117 - 116	S01° 59' 27" E	25.10'
116 - 115	S89° 04' 13" W	210.45'
114 - 113	S40° 48' 01" W	43.25'
113 - 112	S68° 18' 38" W	49.85'
112 - 111	S88° 01' 48" W	55.66'
110 - 109	S42° 31' 03" W	333.07'
109 - 108	N47° 28' 57" W	7.00'
108 - 107	S42° 31' 03" W	410.37'

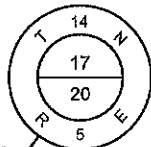
R/W COURSE CURVE TABLE					
COURSE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	DELTA	RADIUS
210 - 211	165.30'	163.70'	N53° 23' 41" E	27° 38' 09" RT	342.71'
211 - 212	124.39'	123.71'	N77° 36' 40" E	20° 47' 48" RT	342.71'
213 - 214	48.45'	48.44'	N74° 57' 44" E	04° 39' 11" LT	596.62'
119 - 118	203.28'	199.86'	S69° 46' 52" W	36° 27' 21" RT	319.48'
115 - 114	218.29'	217.57'	S81° 02' 16" W	16° 03' 55" LT	778.51'
111 - IP507	34.08'	34.08'	S61° 23' 17" W	02° 30' 30" LT	778.51'
IP507 - 110	238.99'	238.05'	S51° 20' 22" W	17° 35' 20" LT	778.51'

REVISION DATE	DATE	SCALE, FEET
	NOVEMBER 30, 2020	0 50 100

HWY: CTH HH	STATE R/W PROJECT NUMBER
COUNTY: JUNEAU	5808-00-01

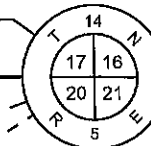
CONSTRUCTION PROJECT NUMBER	PS&E SHEET
5808-00-73	4.08

FILE NAME: 040101_RP.DWG	PLOT DATE: 12/1/2020 3:10 PM	PLOT BY: BRAD LEE	PLOT NAME:	PLOT SCALE: 1 IN=100 FT	WISDOT/CADD SHEET 75
LAYOUT NAME: 040108_rp					



HARRISON MONUMENT
Y = 115,889.239
X = 501,195.374

HARRISON MONUMENT
Y = 115,873.966
X = 504,597.032



GN

4

4

END RELOCATION ORDER
STA 171+89.22
Y = 115,038.989
X = 503,680.619

TOWN

LOT 1
CSM 3293
DOC 630673
V 14, P 73

NE-NE
20-14-5

SECTION LINE
N00°49'55"E, 2,623.75'
MON TO MON

EXISTING MONUMENTS			
PT. NO.	Y	X	DESCRIPTION
IP520	114,934.299	503,735.427	3/4" IRON ROD
IP521	115,043.325	503,712.496	3/4" IRON ROD

R/W POINT COORDINATES		
PT. NO.	Y	X
150	114,566.993	503,682.806
151	114,704.144	503,703.762
152	114,711.305	503,755.854
153	114,738.875	503,815.820
154	114,826.305	503,775.623
250	114,567.334	503,616.092
251	114,755.239	503,644.804
252	115,034.429	503,647.099

R/W COURSE CURVE TABLE					
COURSE	CURVE LENGTH	CHORD LENGTH	CHORD BEARING	DELTA	RADIUS
251 - 252	280.16'	279.20'	N00° 28' 15"E	16° 26' 01" LT	976.78'
IP521 - 154	226.84'	226.01'	S16° 13' 07"E	16° 56' 43" LT	767.00'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
250 - 251	N08° 41' 16"E	190.09'
154 - 153	S24° 41' 28"E	96.23'
152 - 151	S82° 10' 21"W	52.58'
151 - 150	S08° 41' 16"W	138.74'

PI = 168+39.88
Y = 114,691.660
X = 503,669.793
Δ = 01° 03' 42" LT
D = 00° 50' 24"
T = 63.18'
L = 126.36'
R = 6,820.00'
PC = 167+76.70
PT = 169+03.06

PI = 170+50.51
Y = 114,900.257
X = 503,699.011
Δ = 15° 31' 30" LT
D = 07° 42' 57"
T = 101.22'
L = 201.21'
R = 742.57'
PC = 169+49.29
PT = 171+50.50

SMITH VALLEY
FARMS LLC

SE-NE
20-14-5

REVISION DATE	_____	_____	_____
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DATE NOVEMBER 30, 2020



HWY: CTH HH
COUNTY: JUNEAU

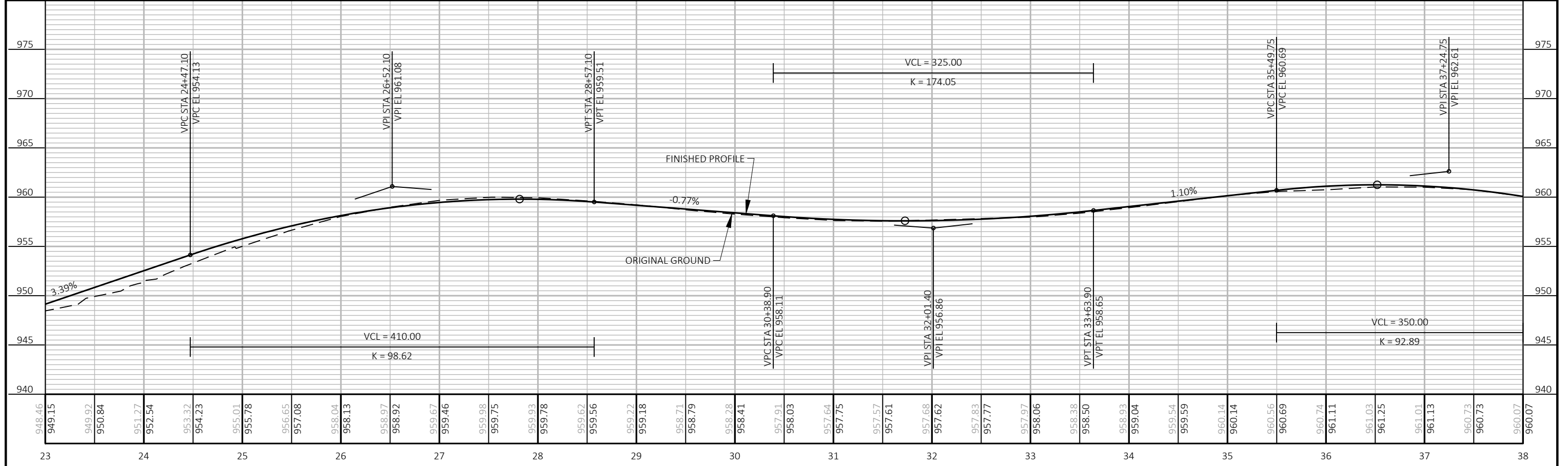
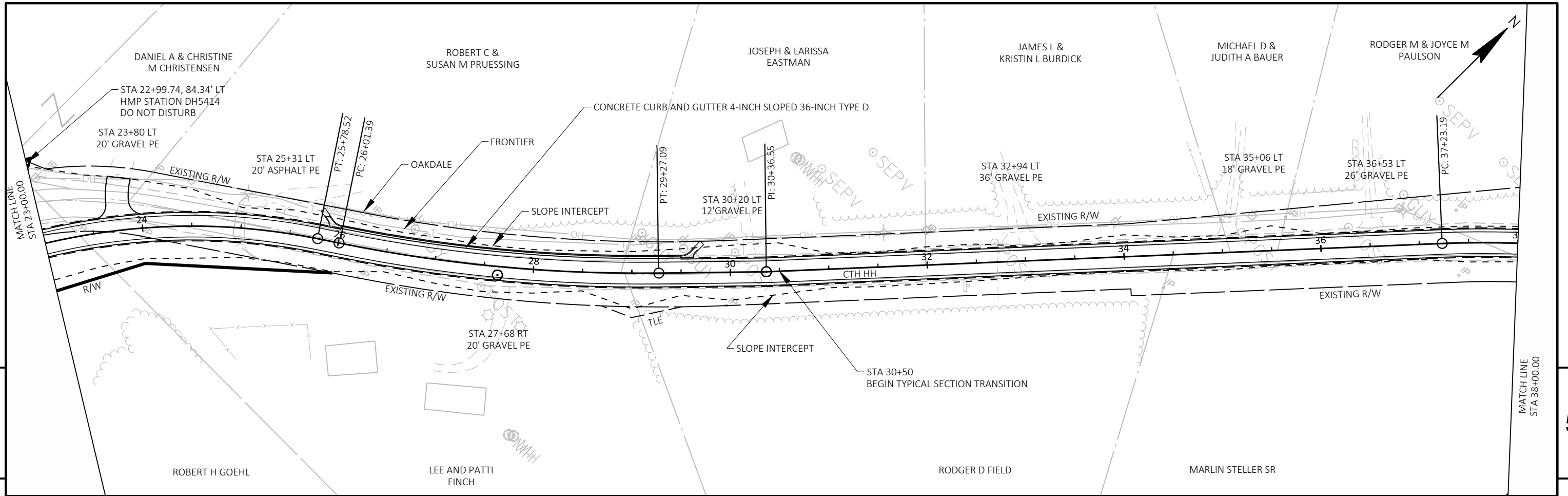
STATE R/W PROJECT NUMBER 5808-00-01

CONSTRUCTION PROJECT NUMBER 5808-00-73

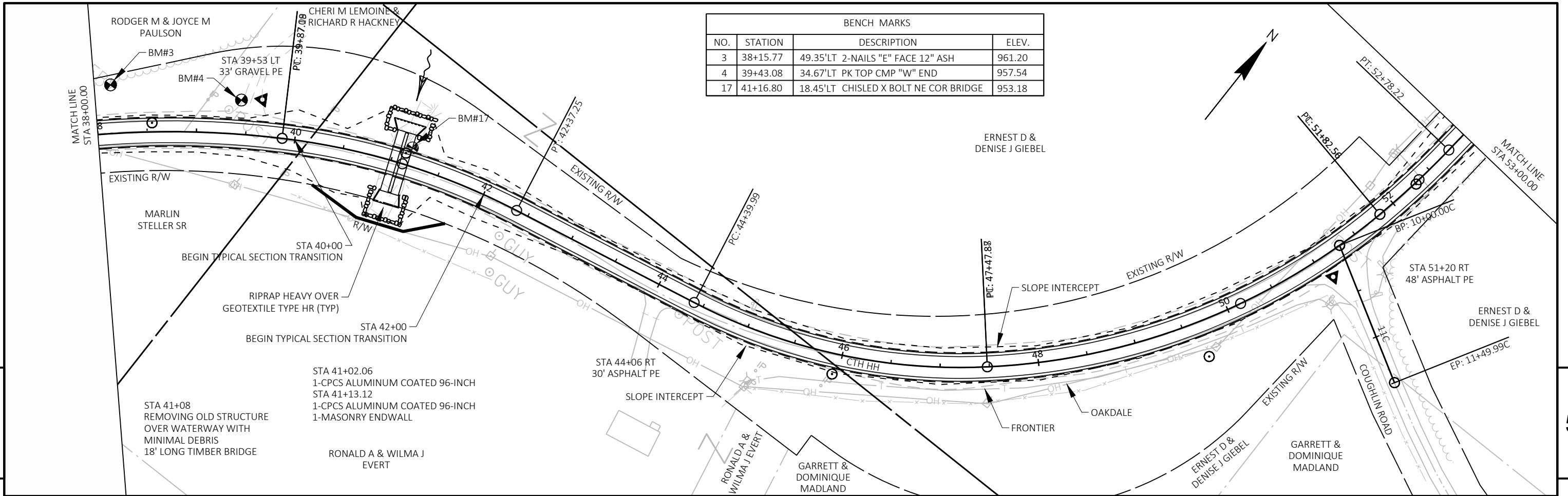
PLAT SHEET 4.09

PS&E SHEET

E



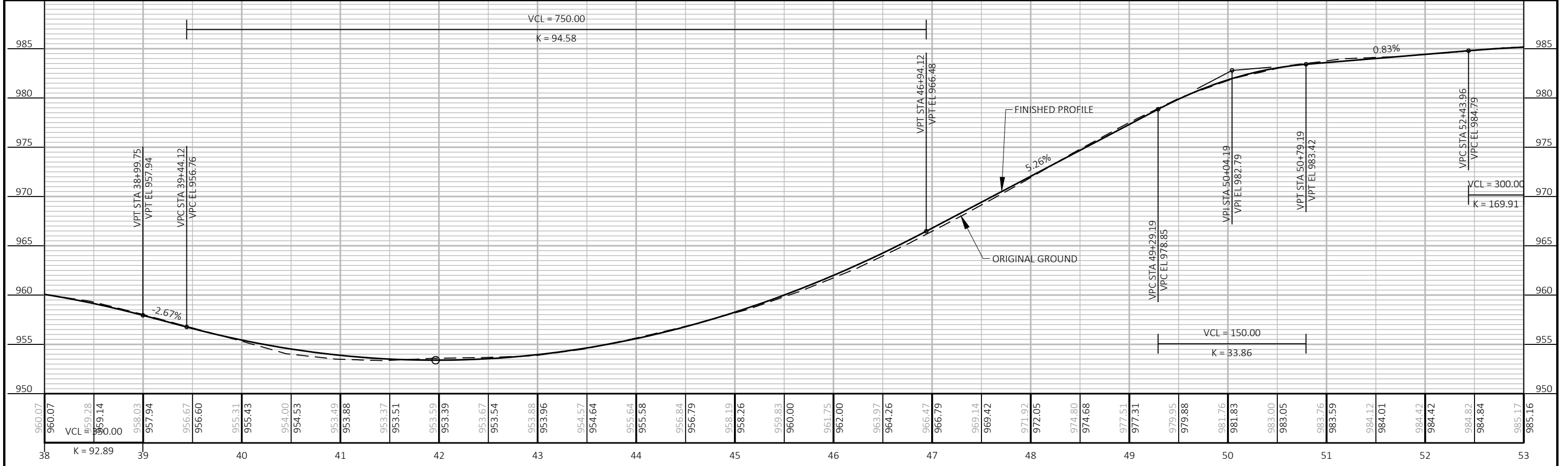
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PLAN AND PROFILE: CTH HH	SHEET	E
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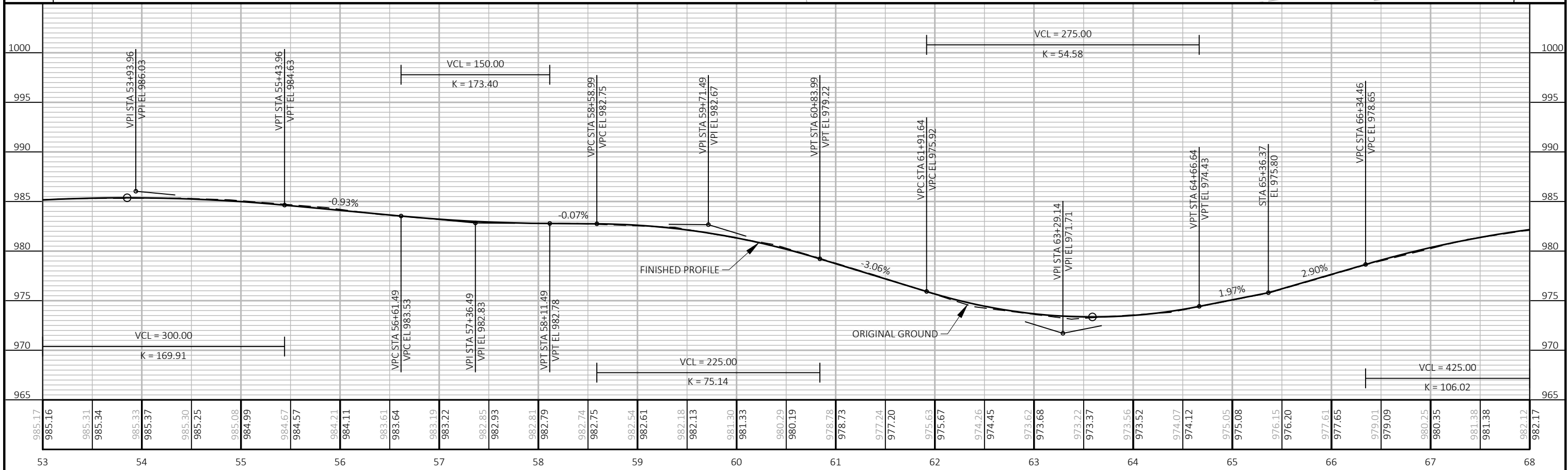
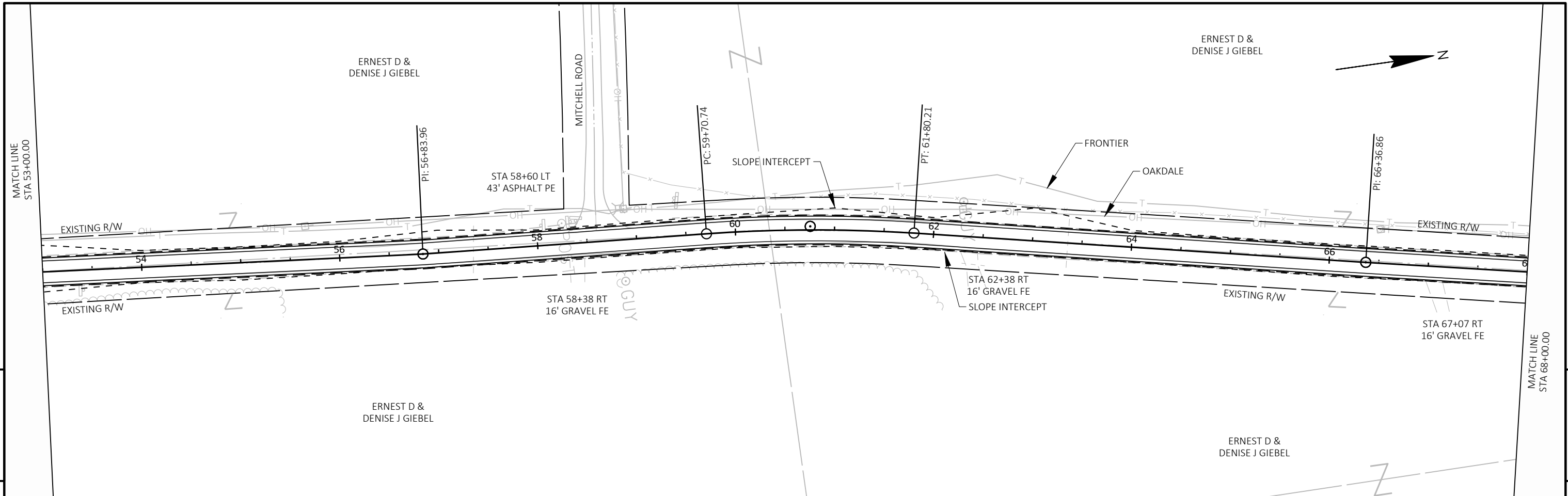
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
3	38+15.77	49.35'LT 2-NAILS "E" FACE 12" ASH	961.20
4	39+43.08	34.67'LT PK TOP CMP "W" END	957.54
17	41+16.80	18.45'LT CHISELED X BOLT NE COR BRIDGE	953.18

5

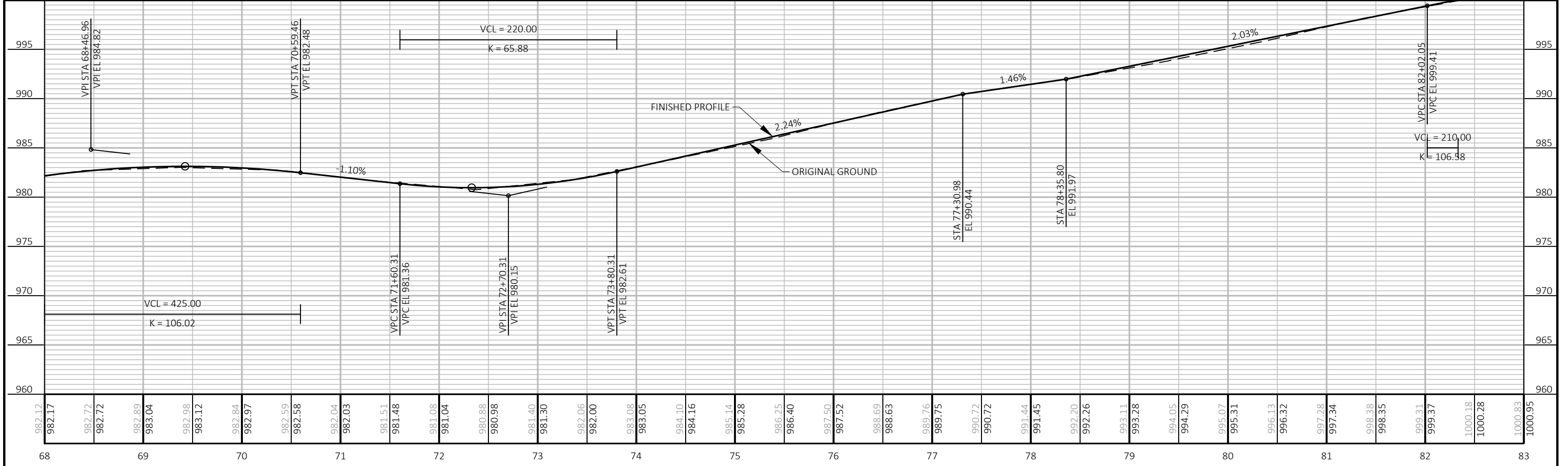
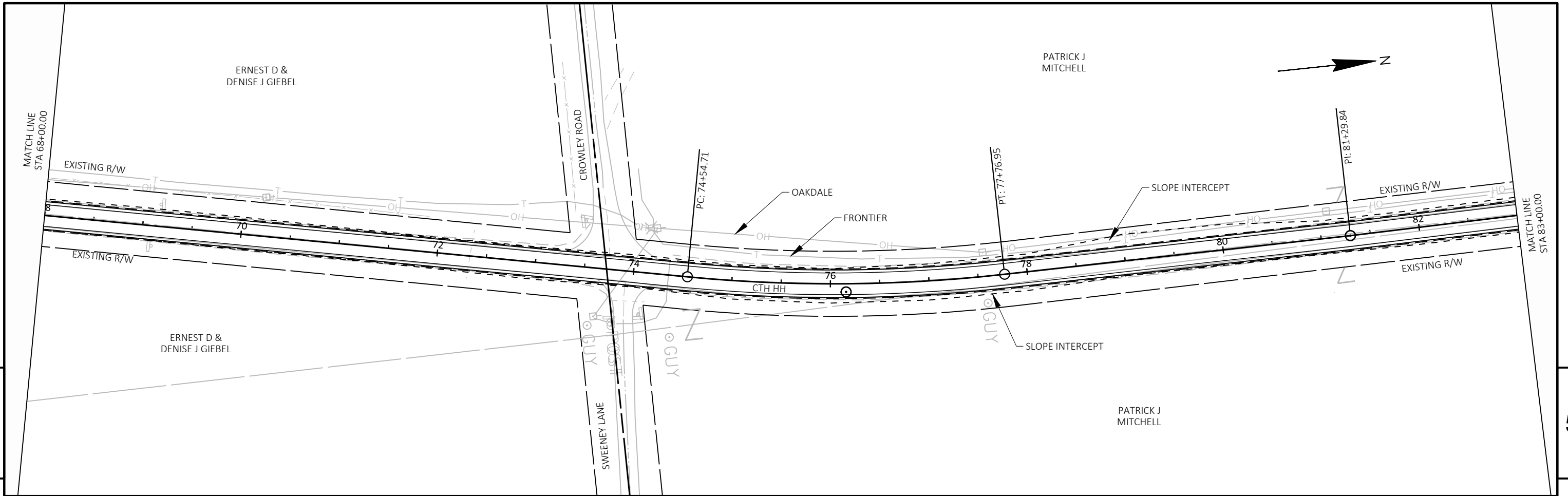
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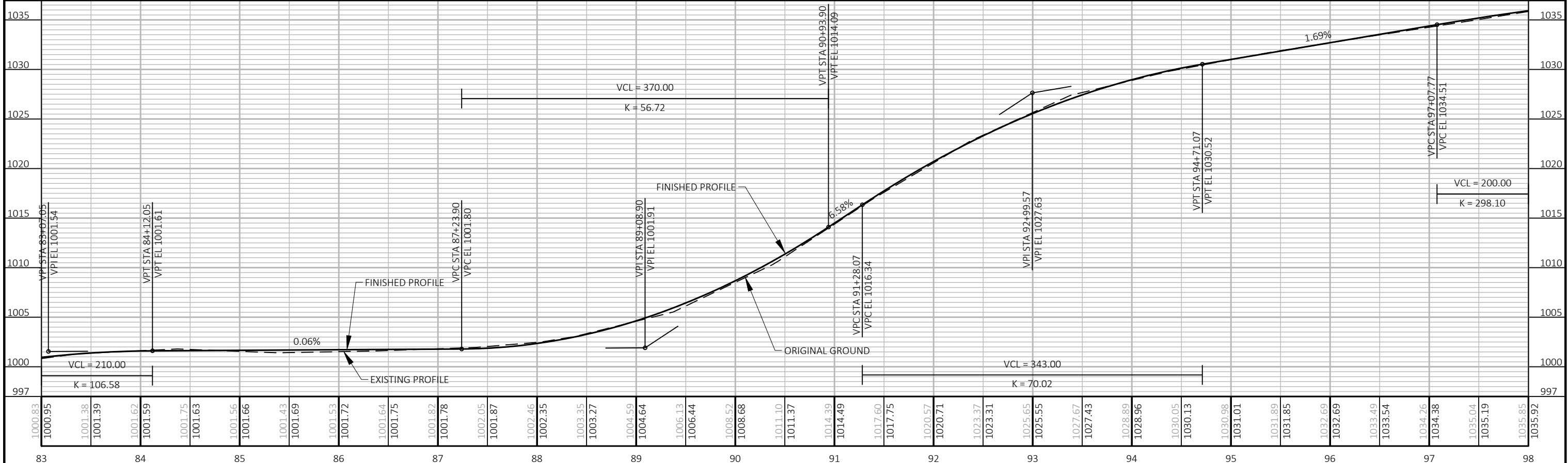
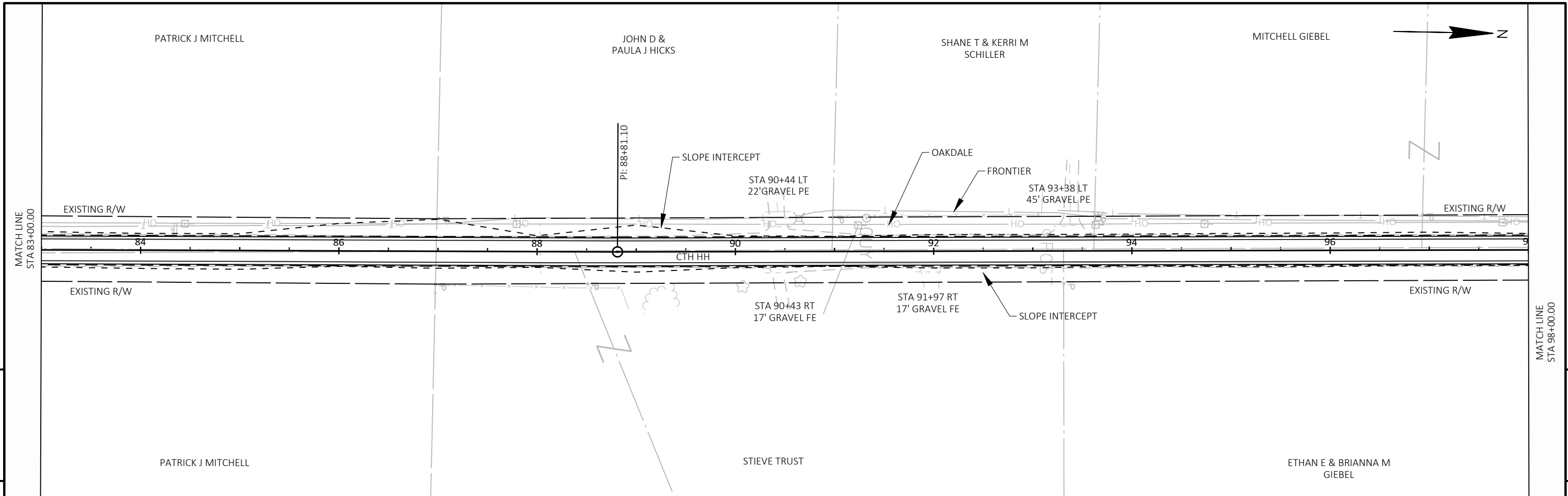
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PLAN AND PROFILE: CTH HH	SHEET	E
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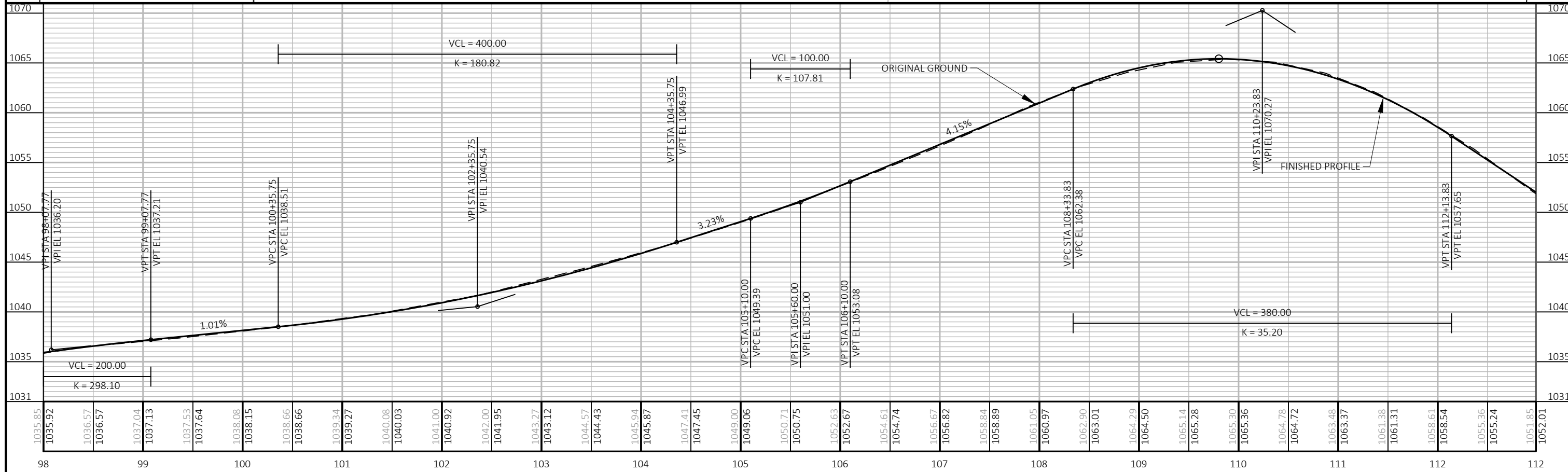
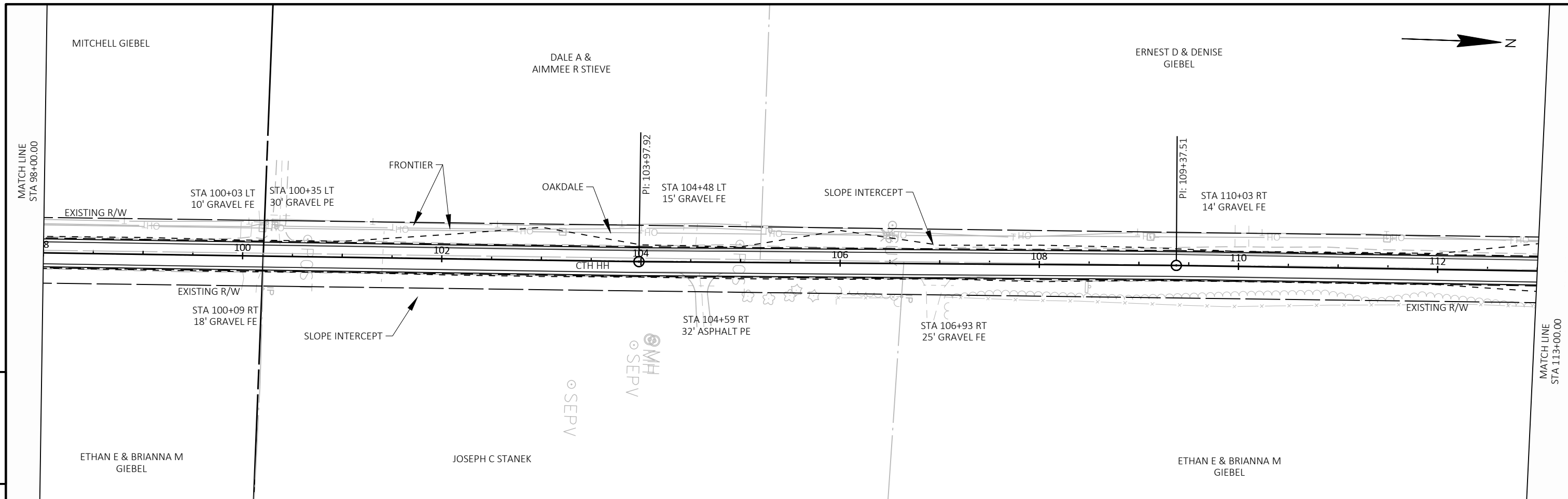
PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU PLAN AND PROFILE: CTH HH SHEET: E



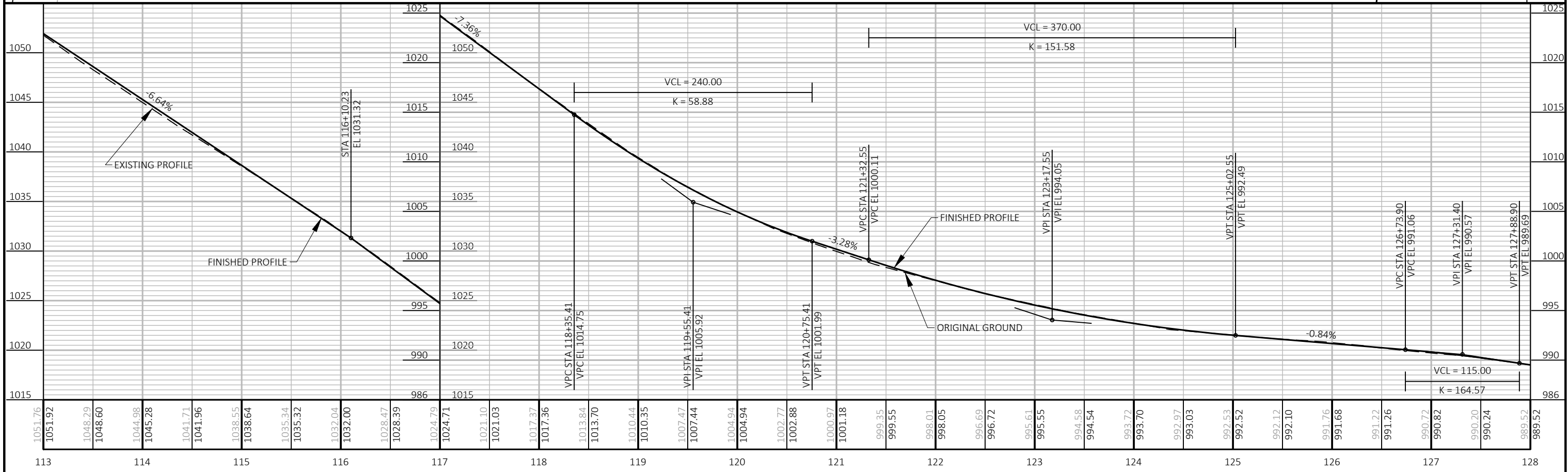
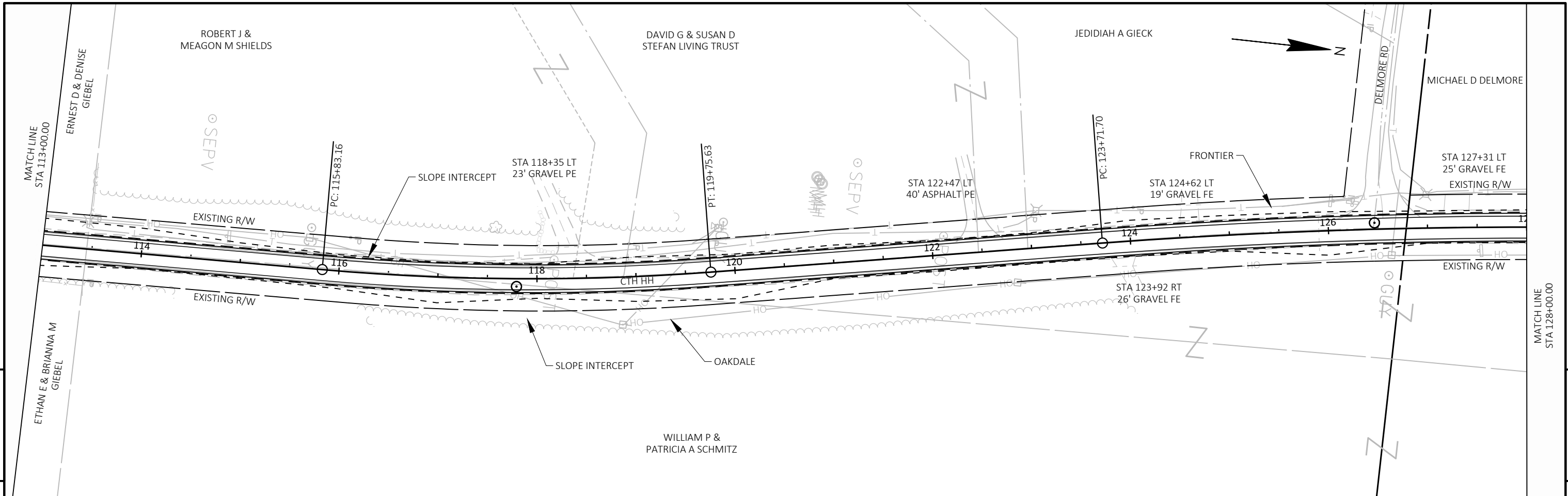
PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU PLAN AND PROFILE: CTH HH SHEET: E



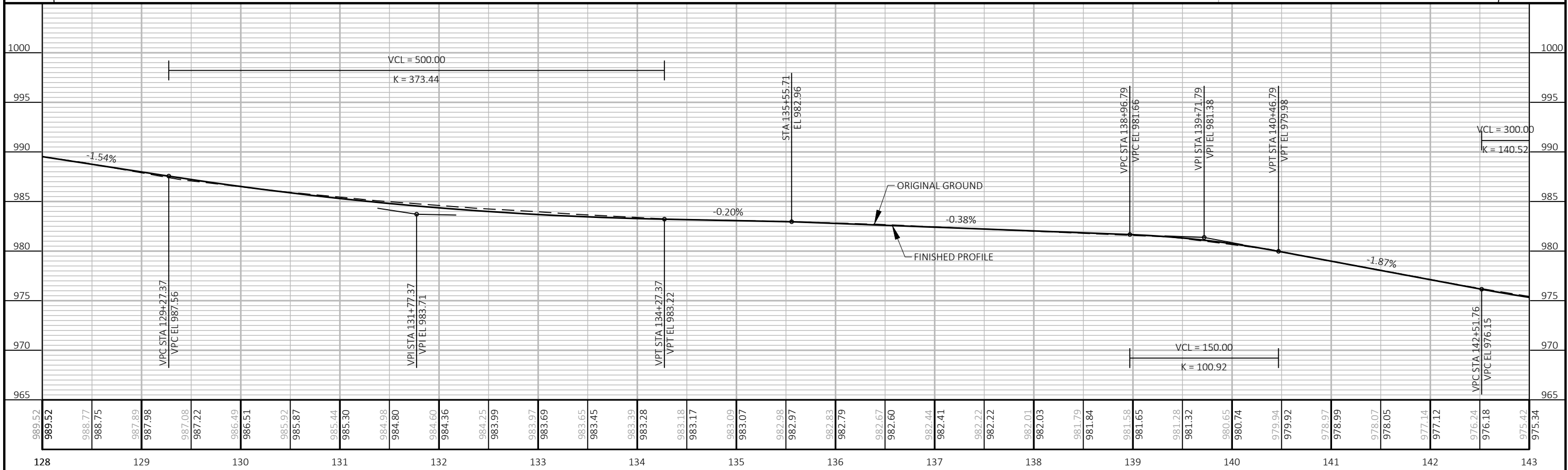
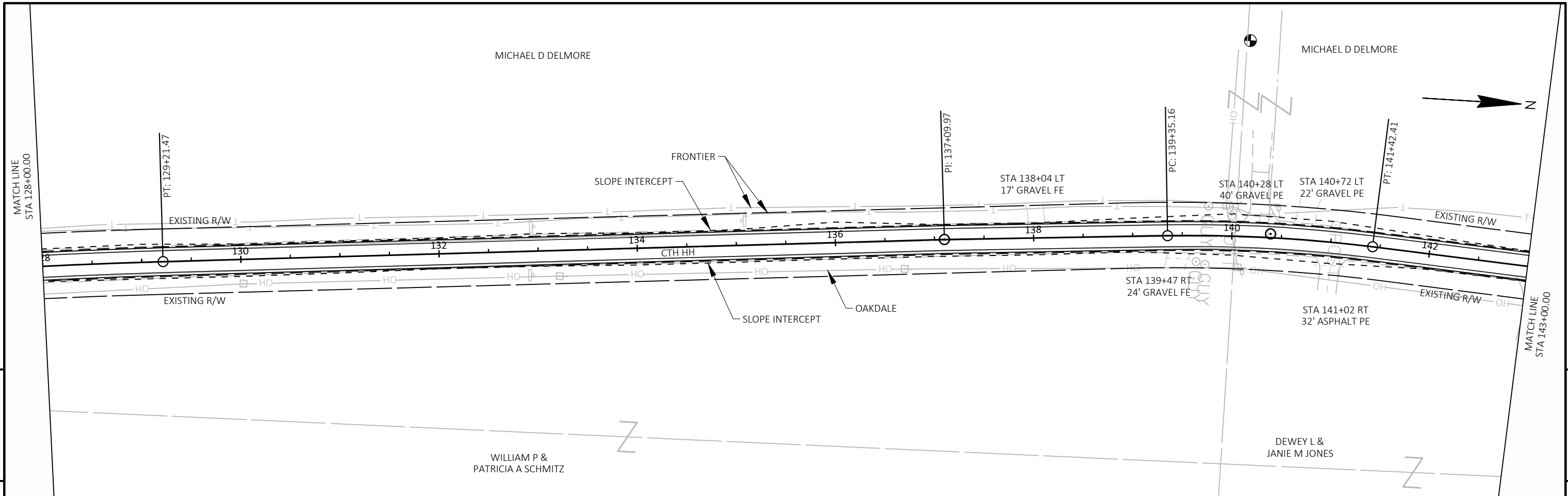
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PLAN AND PROFILE: CTH HH	SHEET	E
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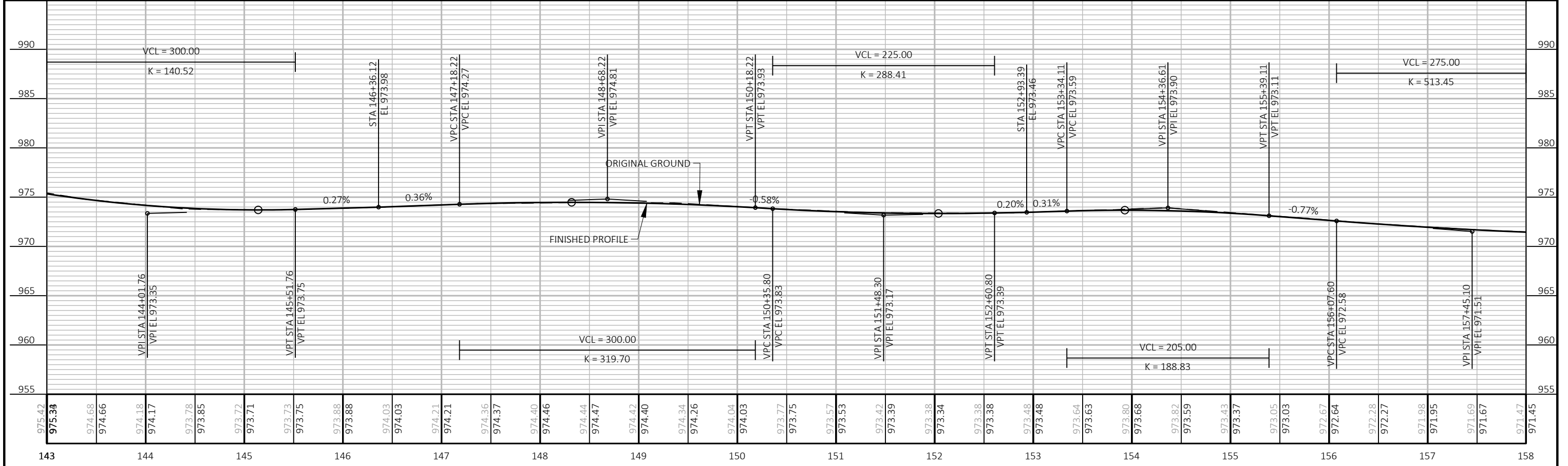
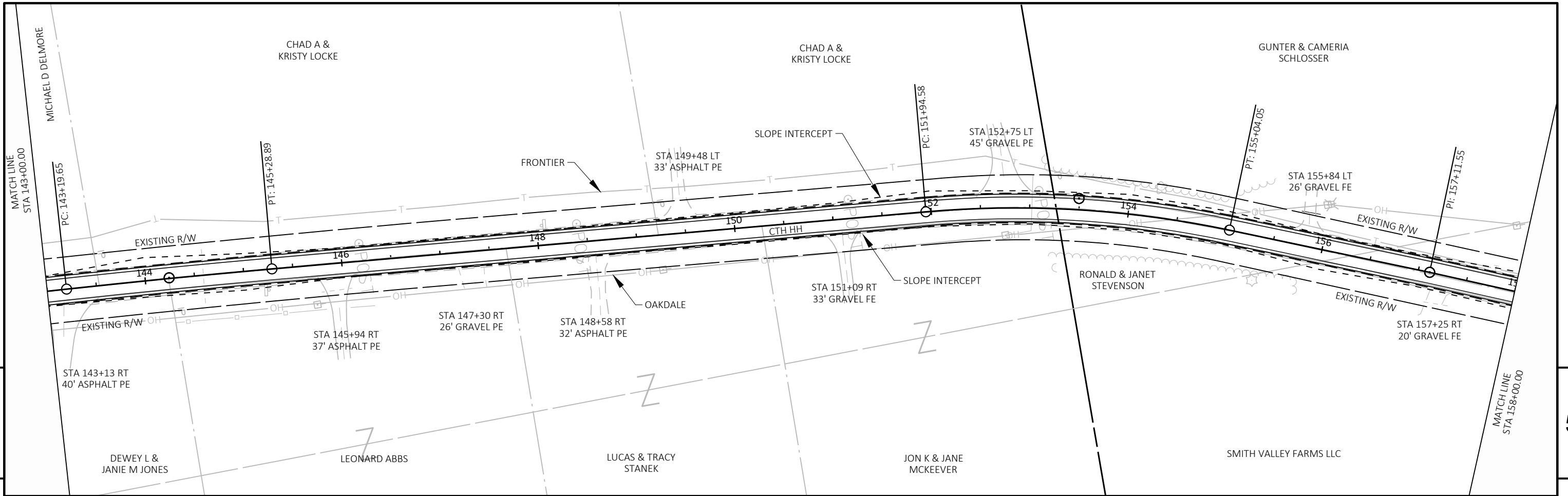
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PLAN AND PROFILE: CTH HH	SHEET	E
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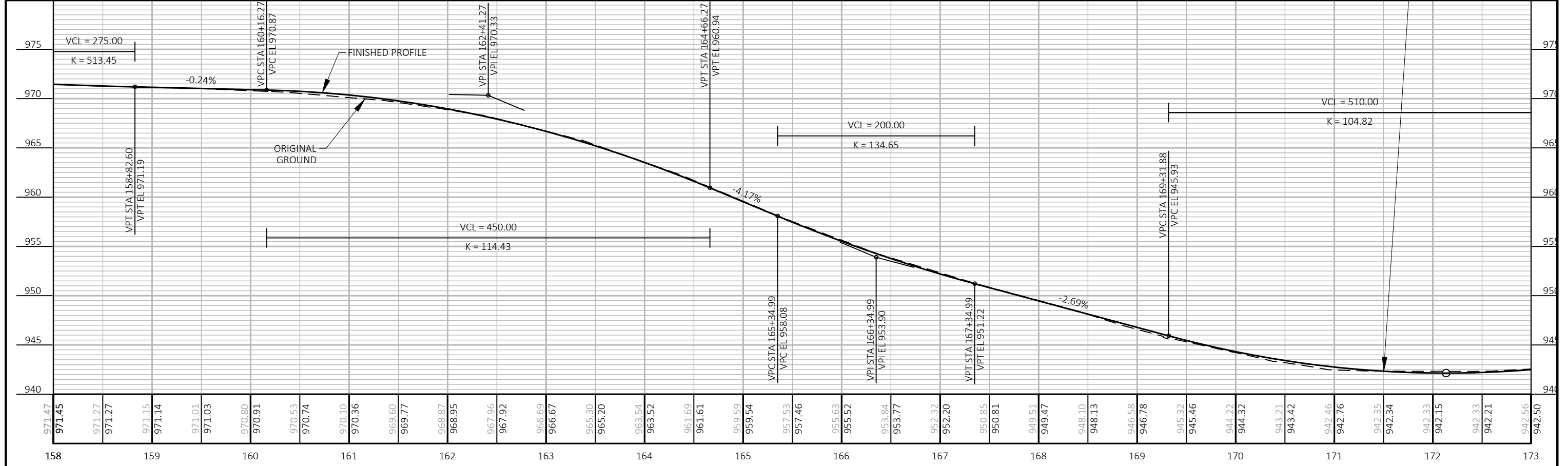
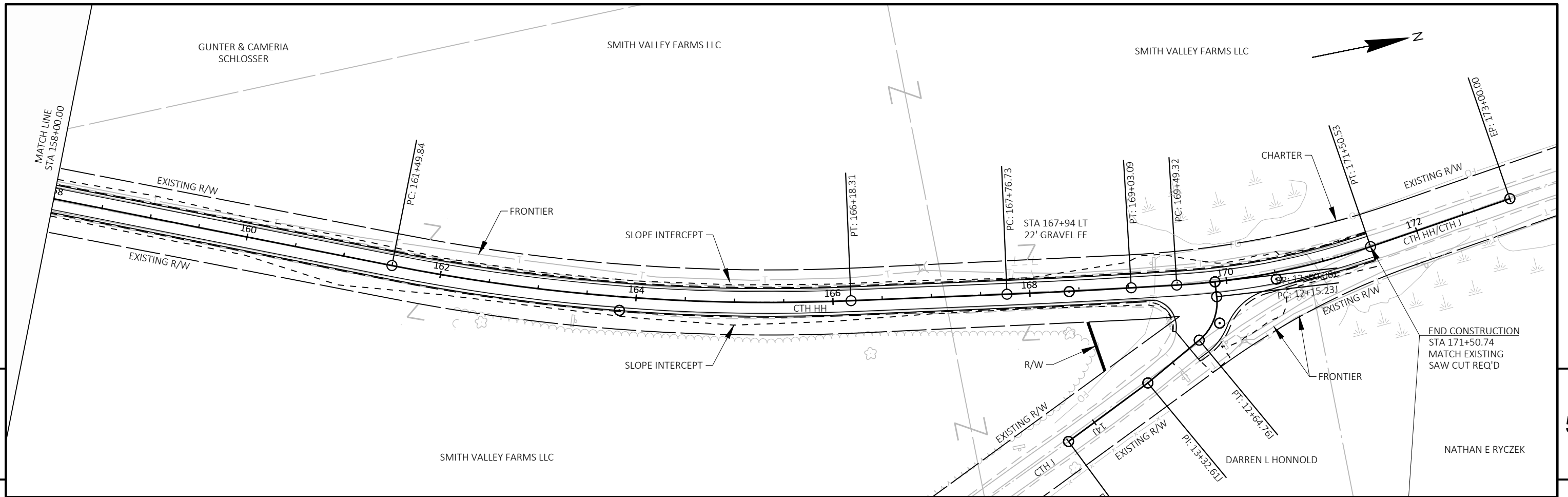
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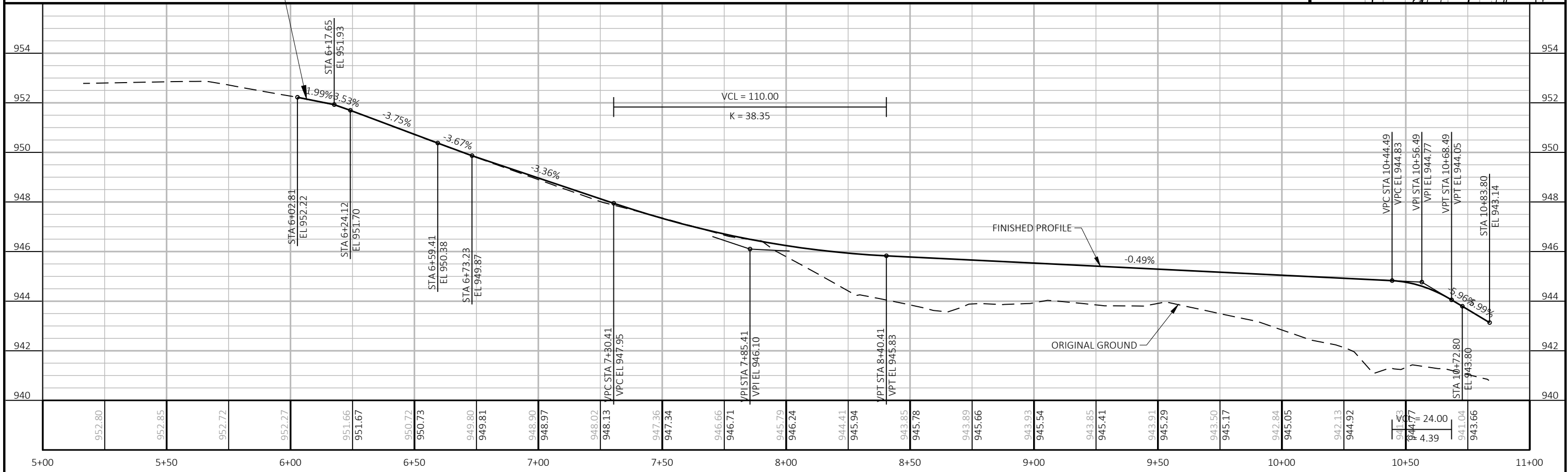
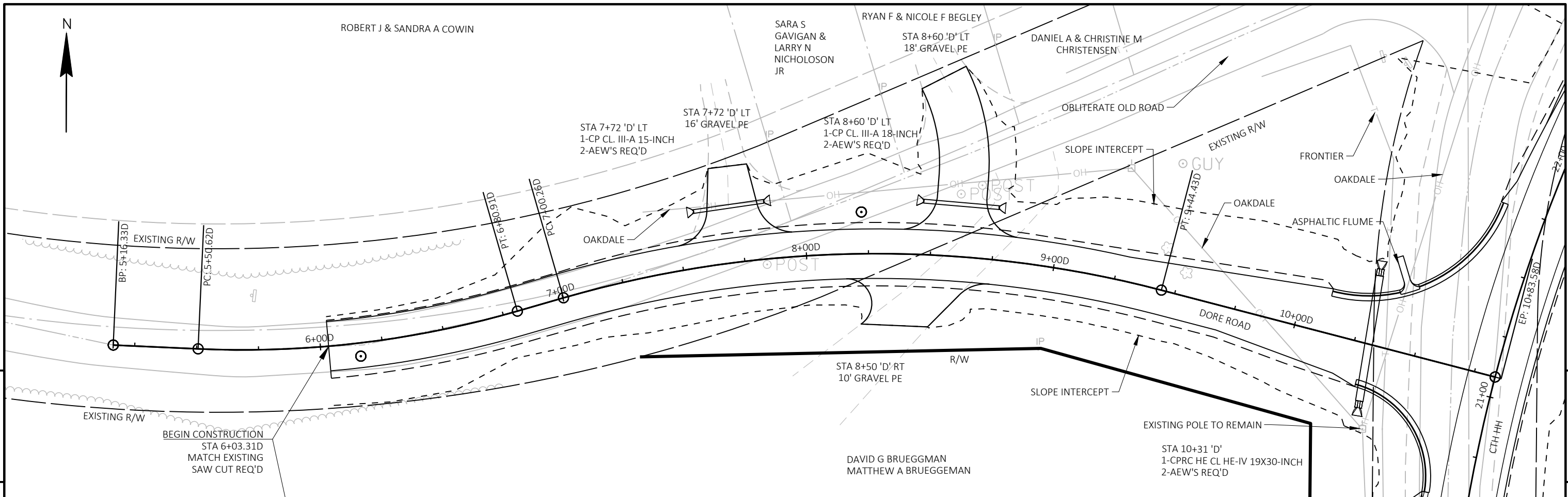
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PLAN AND PROFILE: CTH HH	SHEET E
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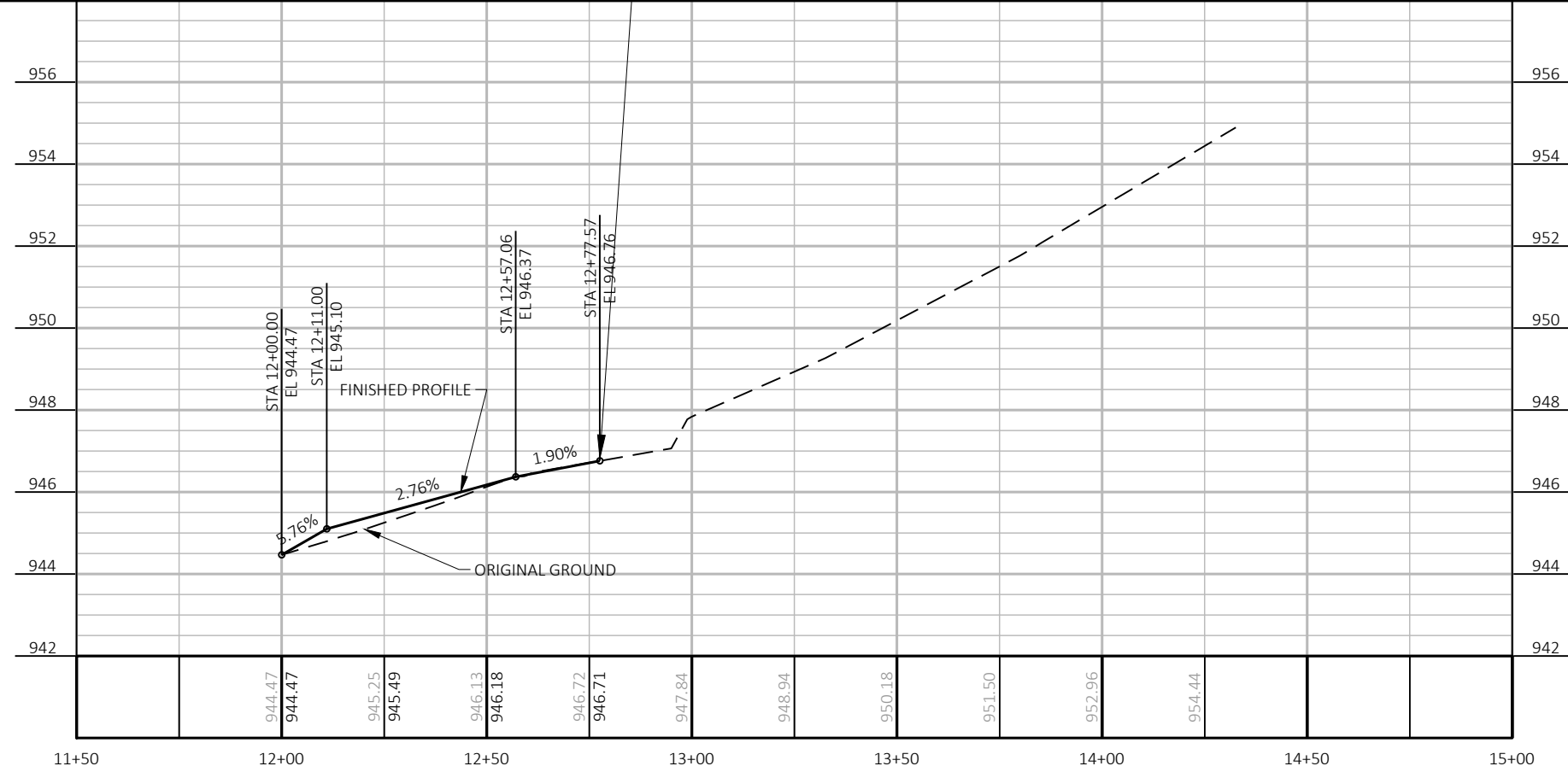
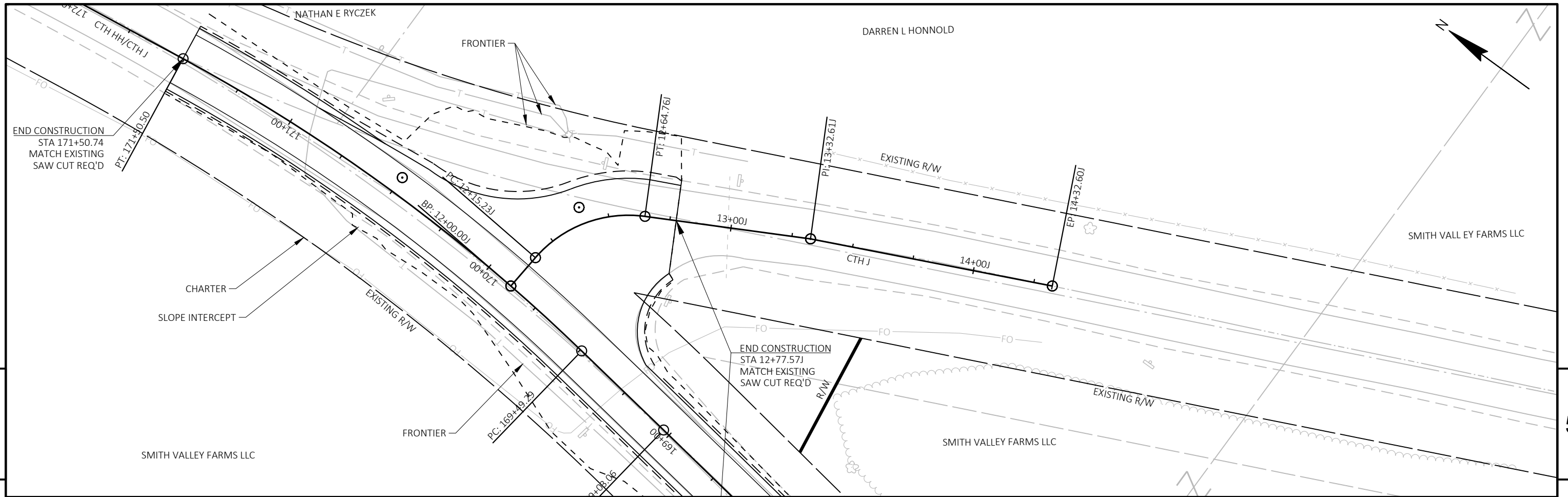
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PLAN AND PROFILE: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PLAN AND PROFILE: CTH HH	SHEET	E
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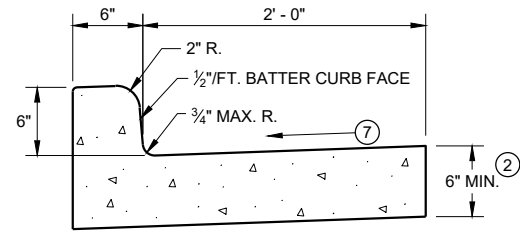
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	PLAN AND PROFILE: DORE ROAD	SHEET	E
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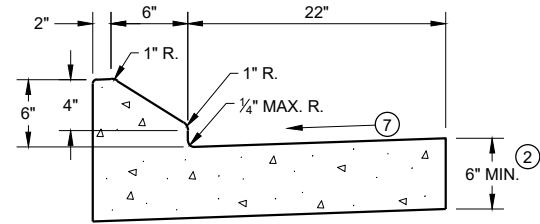
PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU PLAN AND PROFILE: CTH J SHEET: E

Standard Detail Drawing List

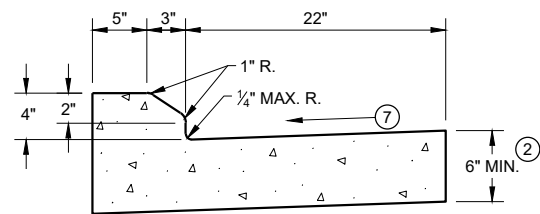
08D01-22A	CONCRETE CURB & GUTTER
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-08A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



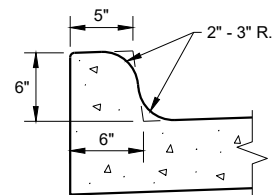
TYPES A^① & D



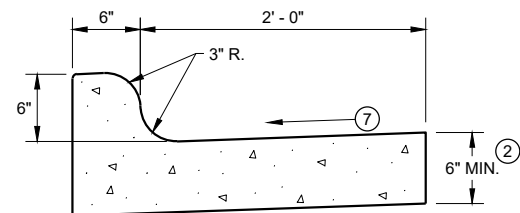
6" SLOPED CURB TYPES G^① & J



4" SLOPED CURB TYPES G^① & J

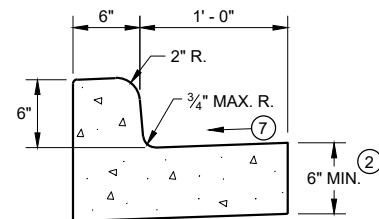


TYPES K^① & L
(OPTIONAL CURB SHAPE)



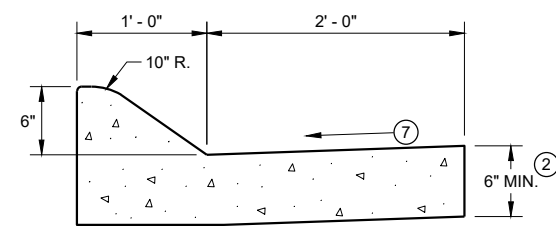
TYPES K^① & L

CONCRETE CURB AND GUTTER 30"

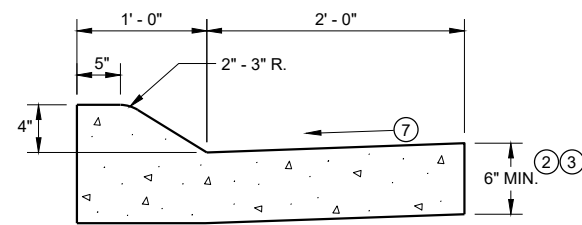


TYPES A^① & D

CONCRETE CURB AND GUTTER 18"

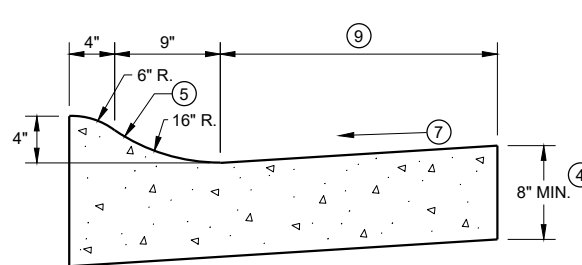


6" SLOPED CURB TYPES A^① & D



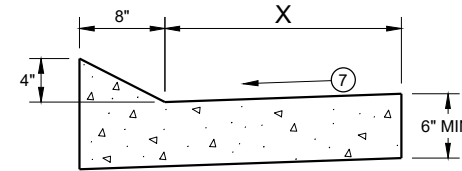
4" SLOPED CURB TYPES A^① & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R^① & T

TBT & TBTT	X
30"	22"
36"	28"

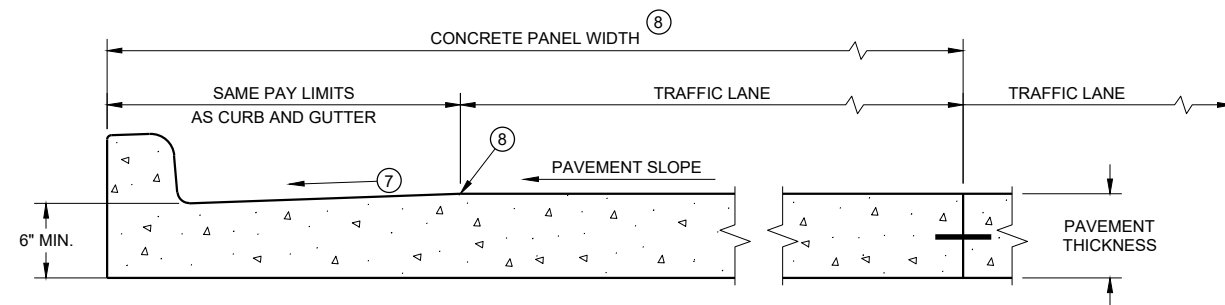


TYPES TBT & TBTT^①

CONCRETE CURB AND GUTTER

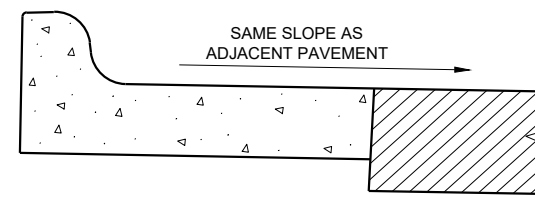
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER^⑥
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

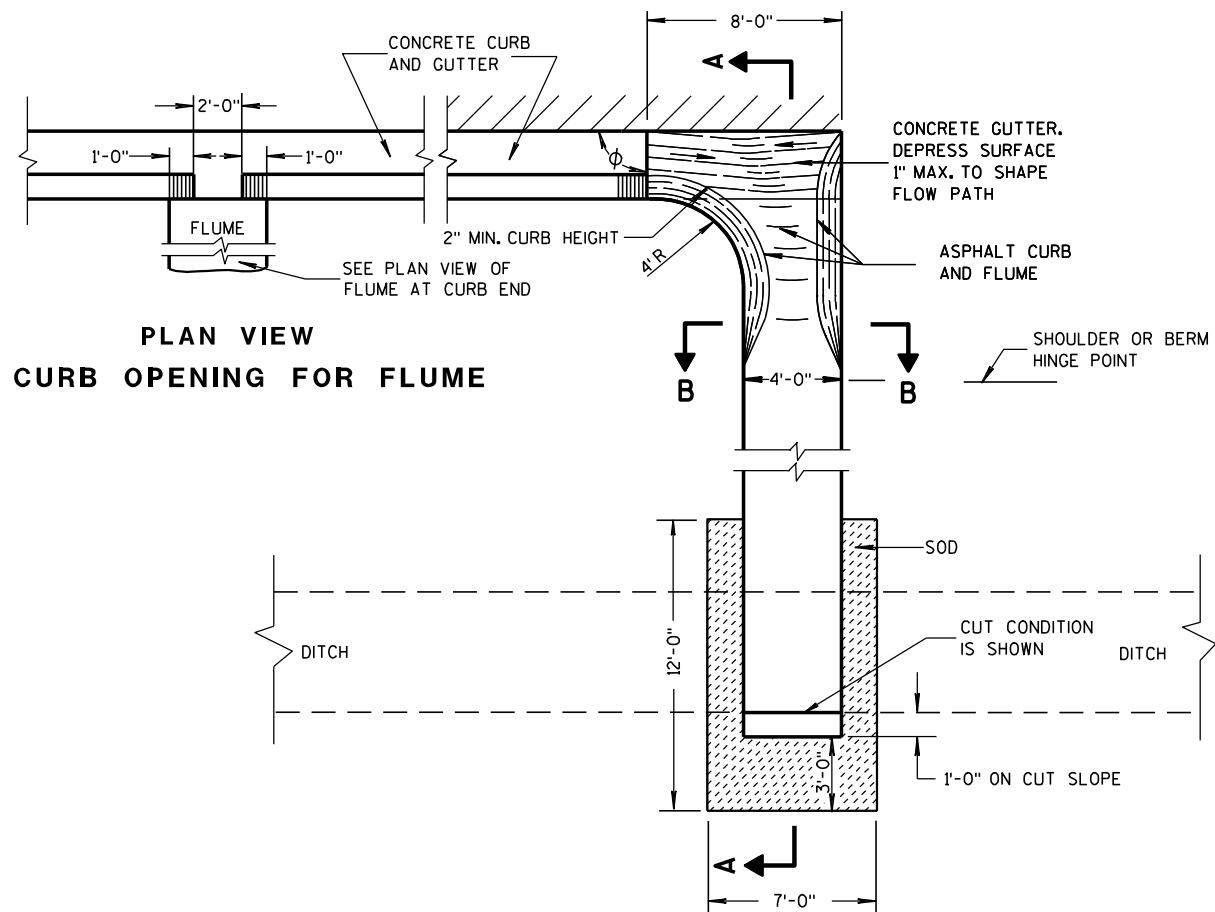
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
- ⑨ CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

ASPHALTIC FLUME

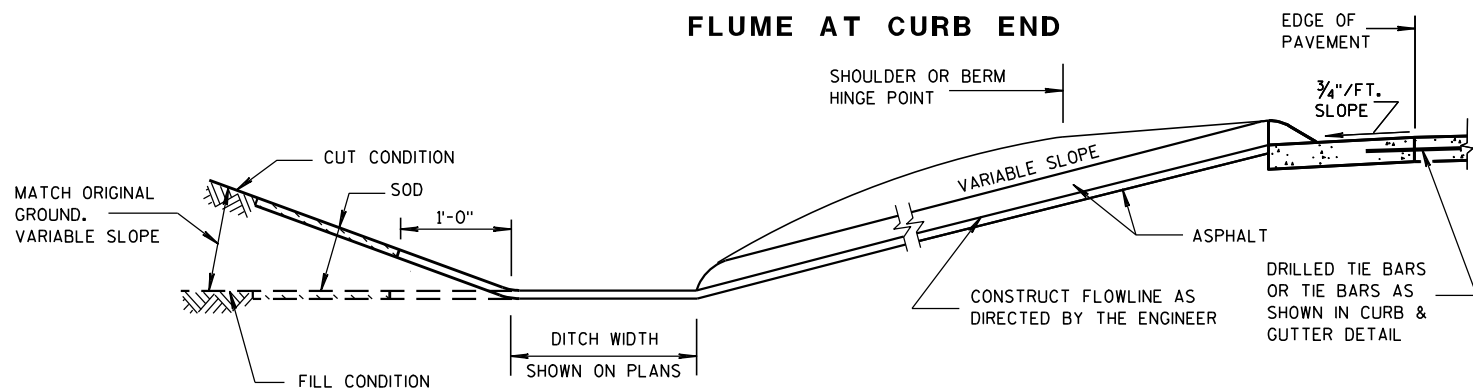
NOTE: TAPER CURB ENDS TO GUTTER IN 1'-0"

INCREASE ϕ FROM RIGHT ANGLE TO BEST FIT FIELD CONDITIONS

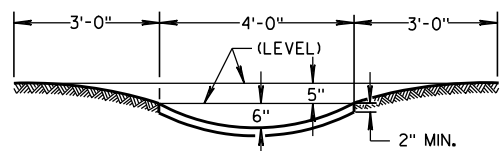


PLAN VIEW CURB OPENING FOR FLUME

PLAN VIEW FLUME AT CURB END



SECTION A-A



SECTION B-B

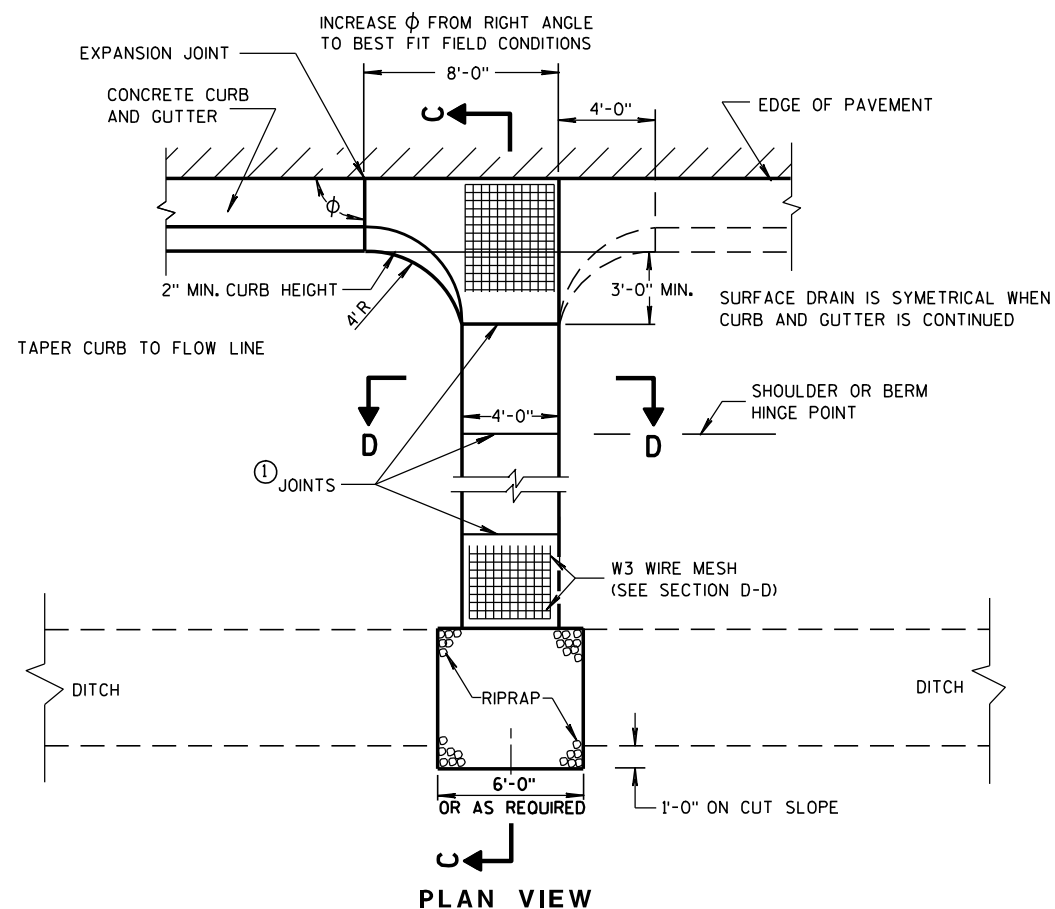
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

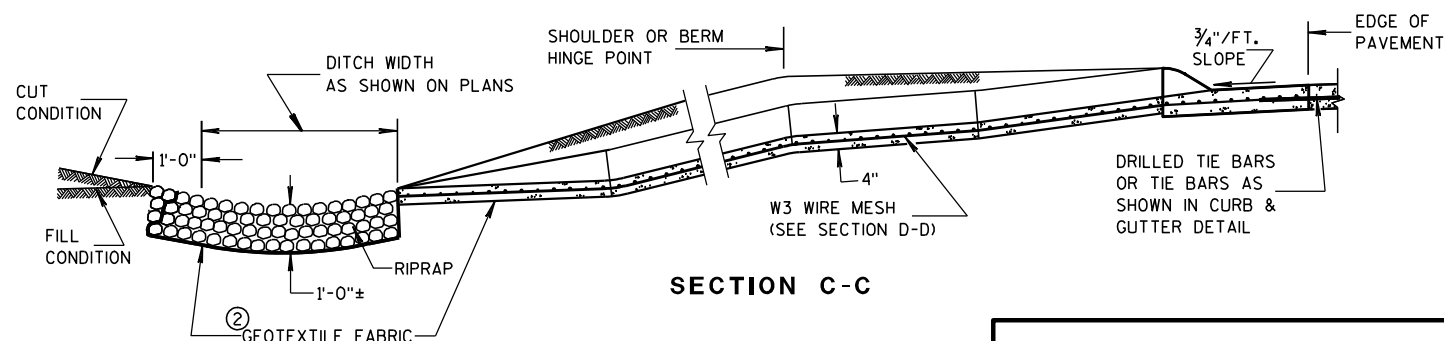
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

- ① JOINTS SHALL BE 1/8 TO 1/4 INCH WIDE BY 1 1/2 INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- ③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

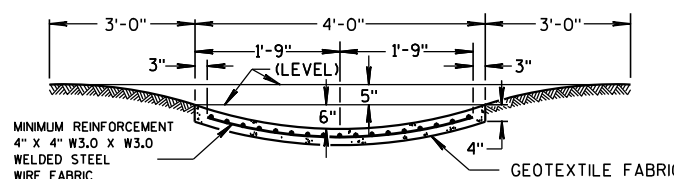
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C

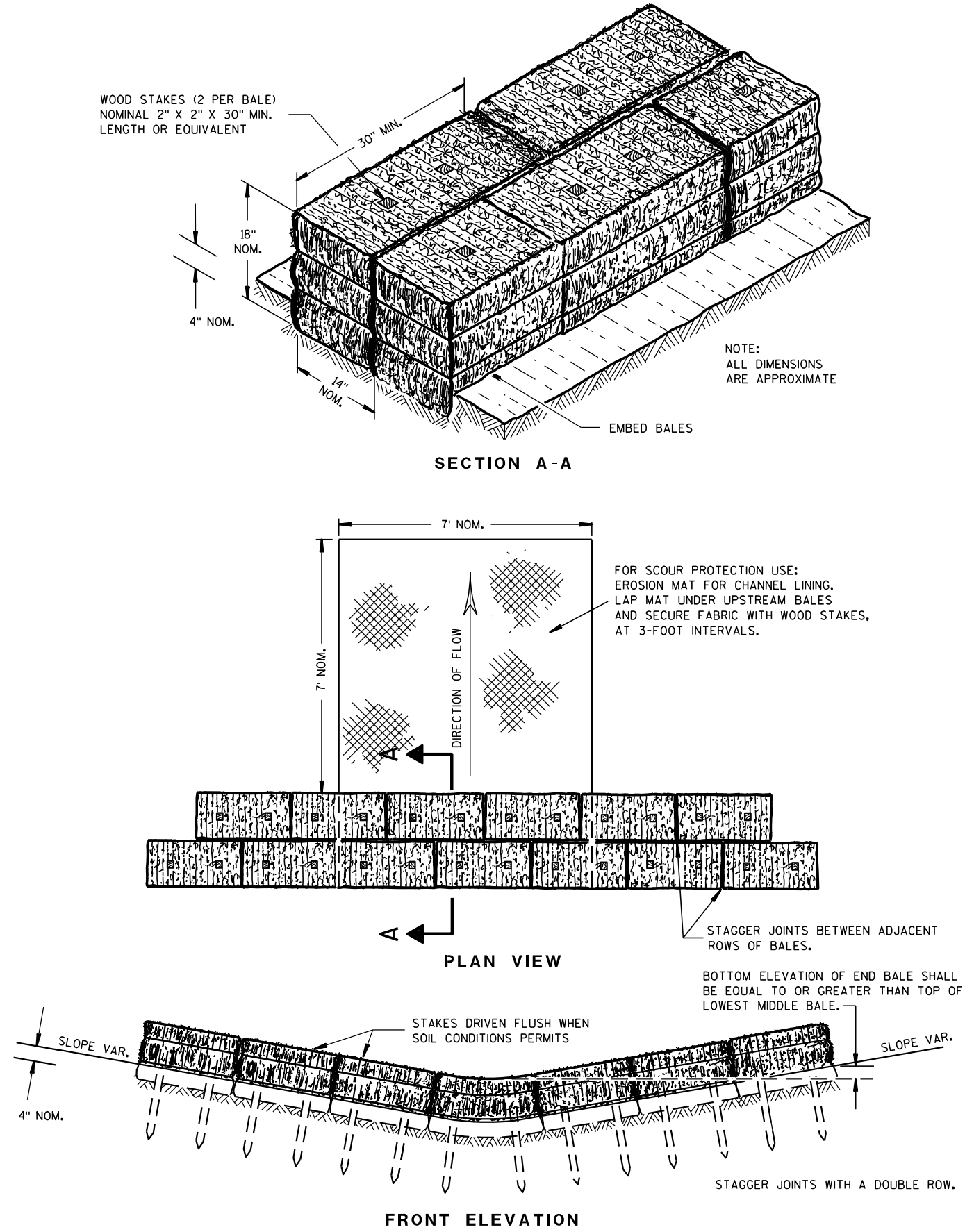


SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

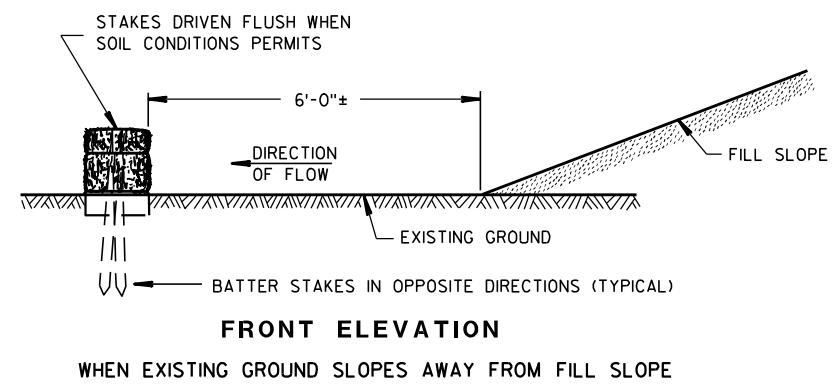
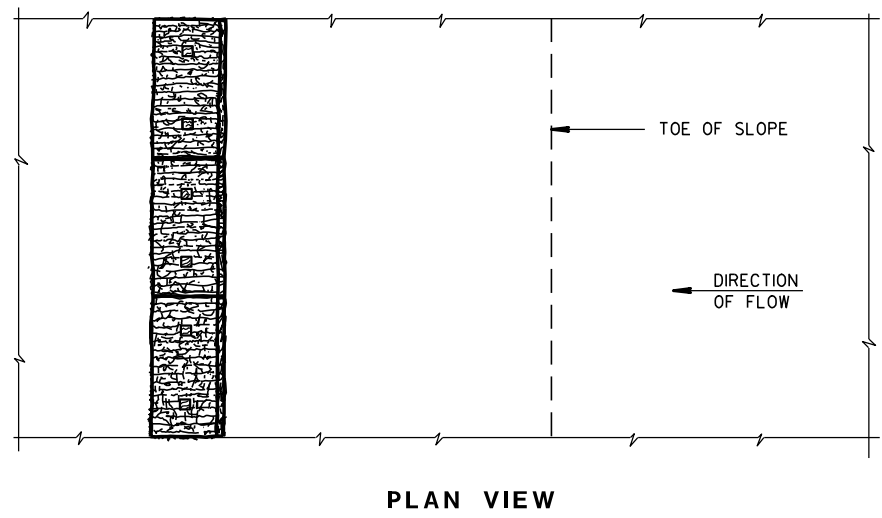
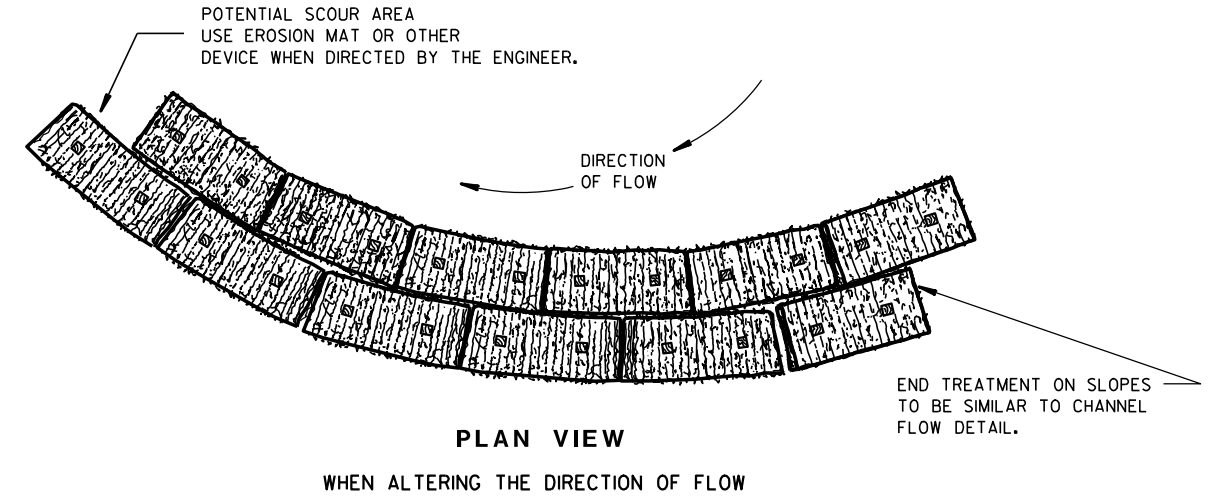


TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

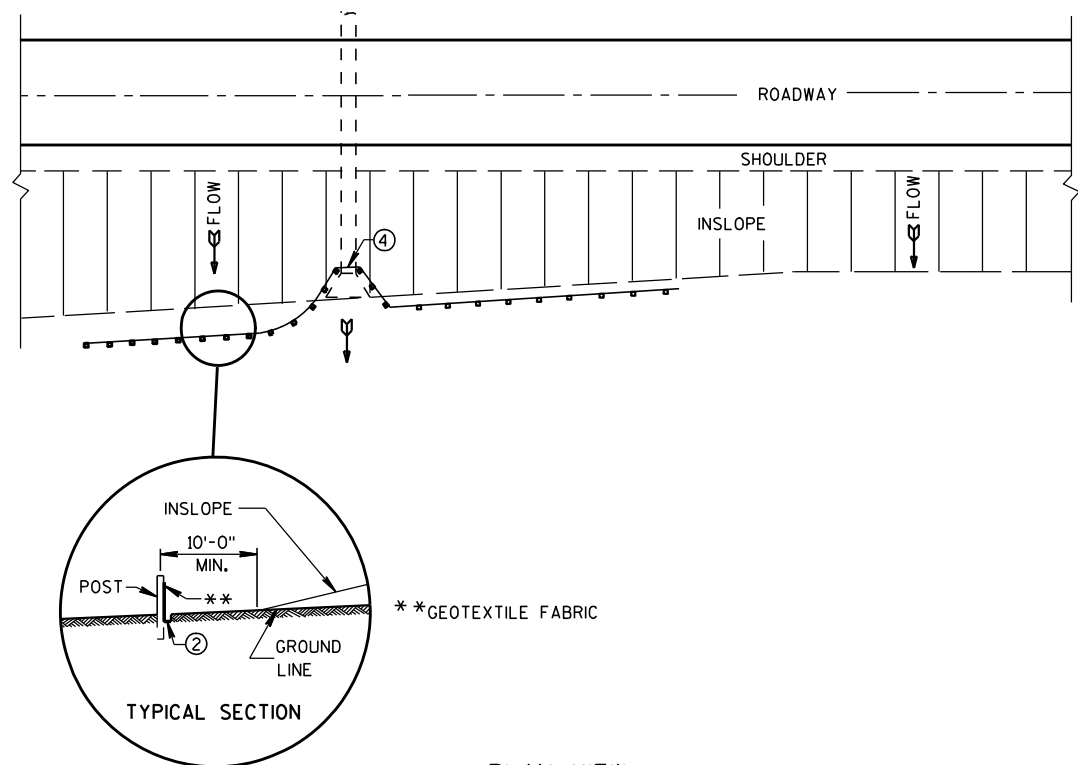


EROSION BALES FOR SHEET FLOW

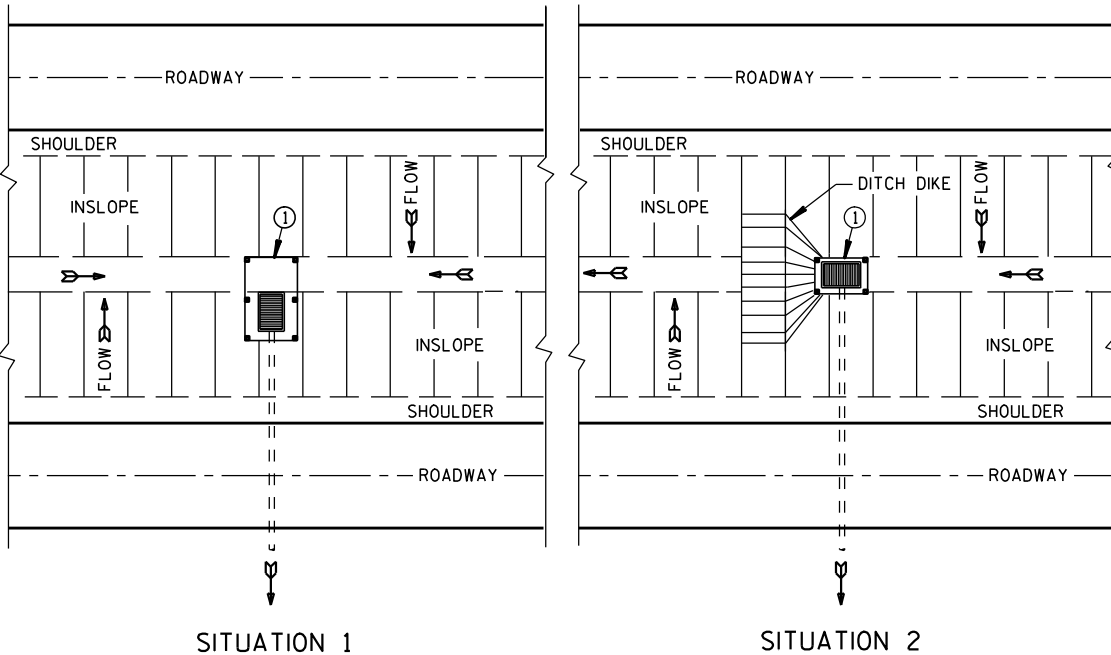
TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 /S/ Beth Canestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

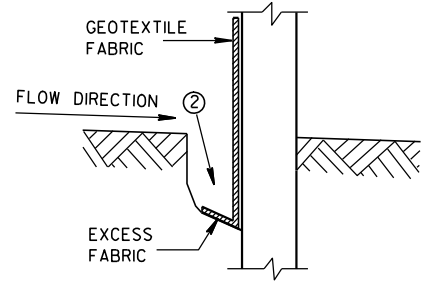


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

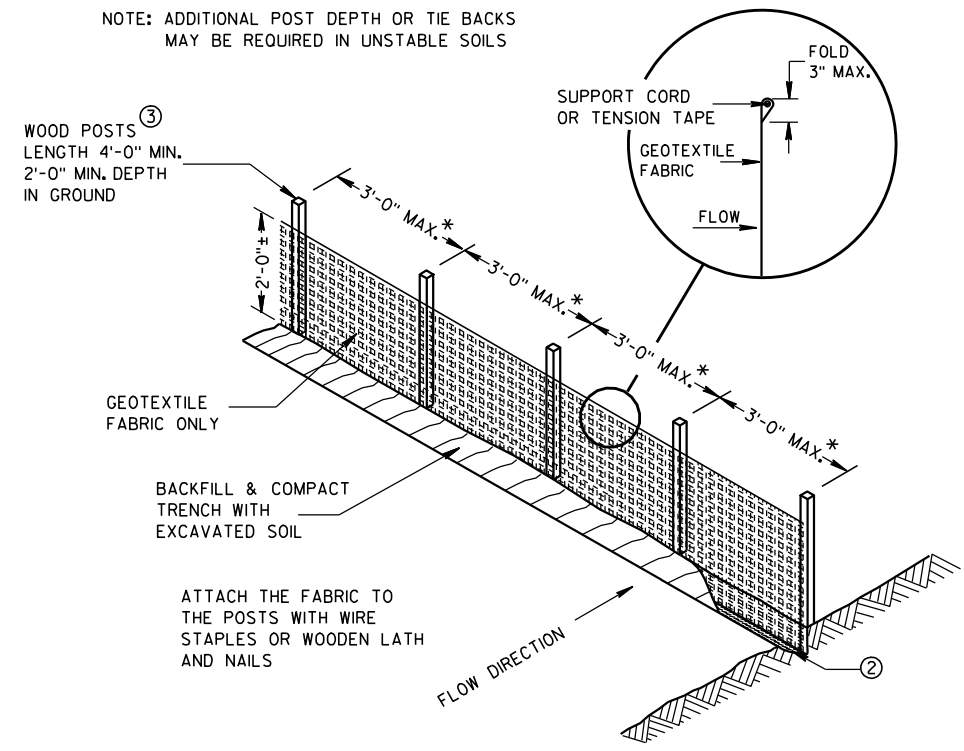
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



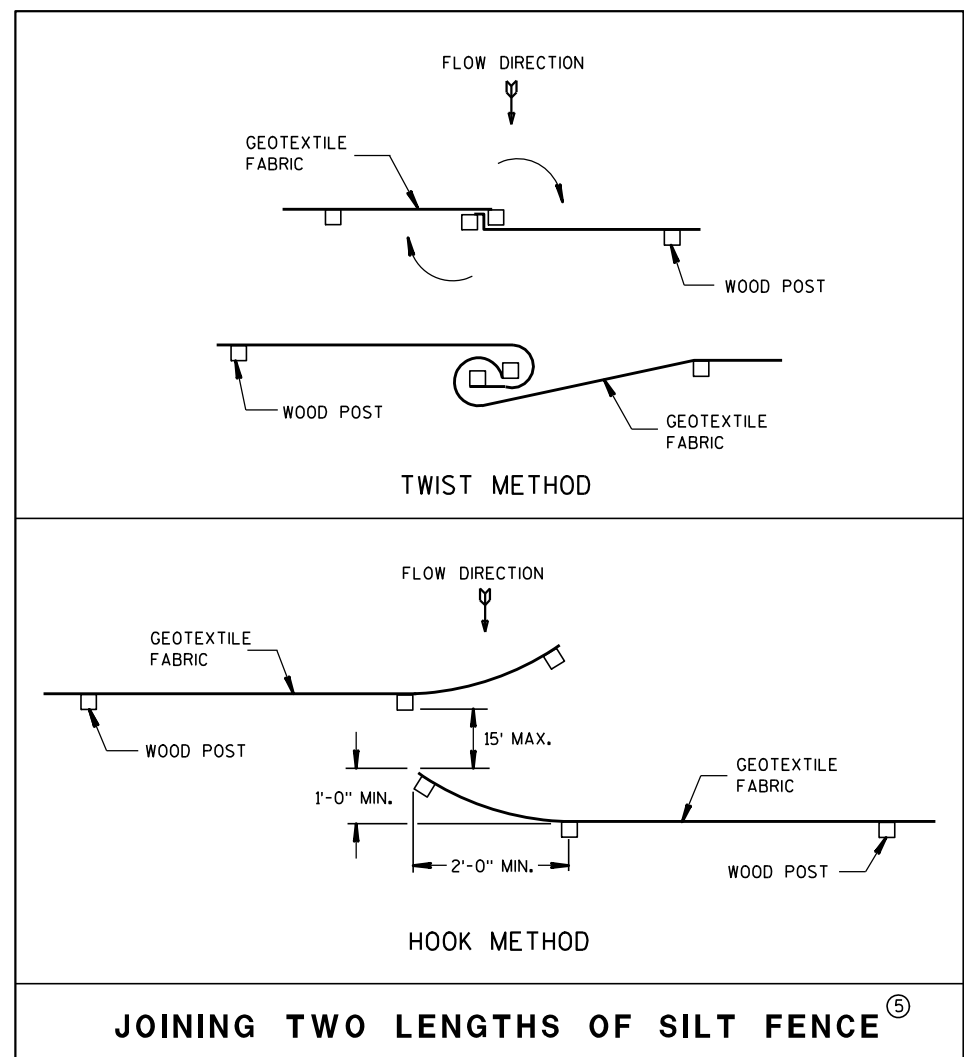
TRENCH DETAIL

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

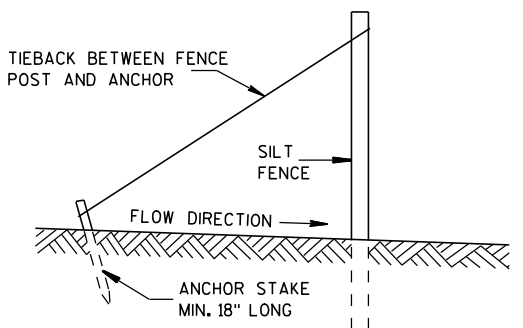


SILT FENCE

* NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

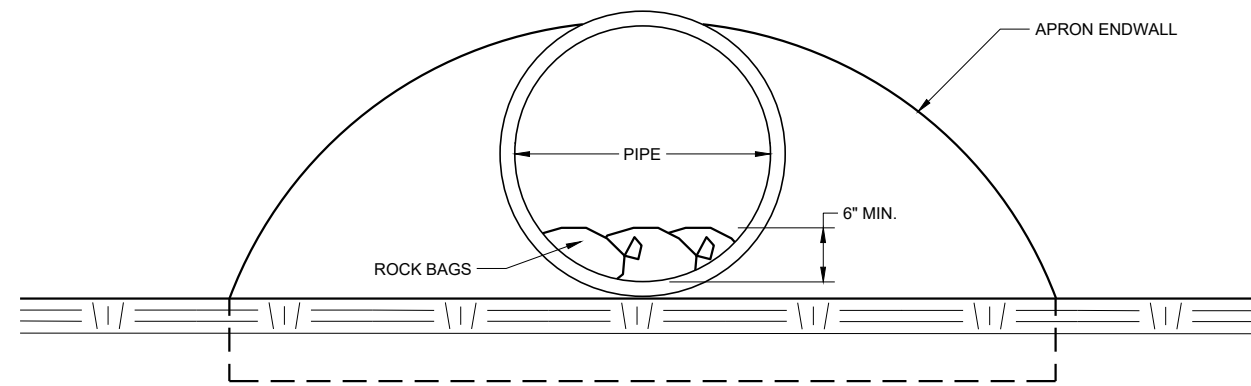


JOINING TWO LENGTHS OF SILT FENCE ⑤

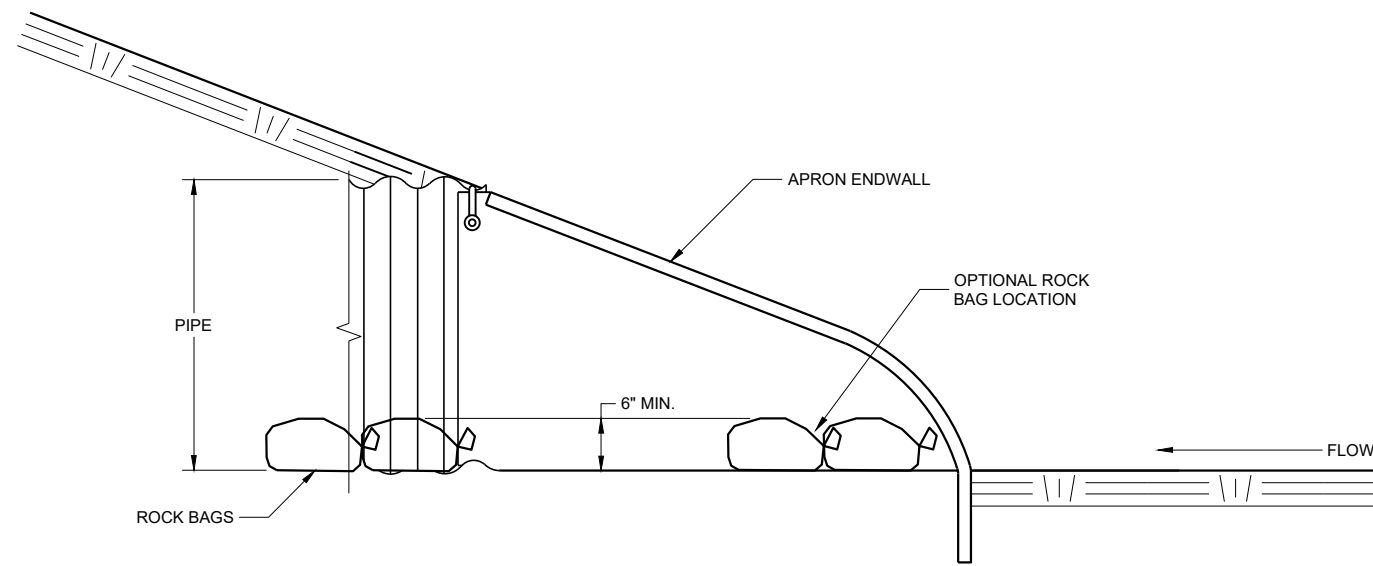


SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



END VIEW



SIDE VIEW

CULVERT PIPE CHECK
(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 /S/ Daniel Schave
DATE EROSION CONTROL ENGINEER

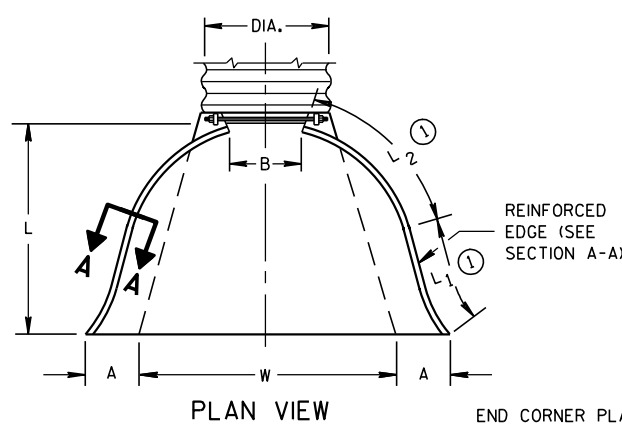
FHWA

METAL APRON ENDWALLS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1	L2	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

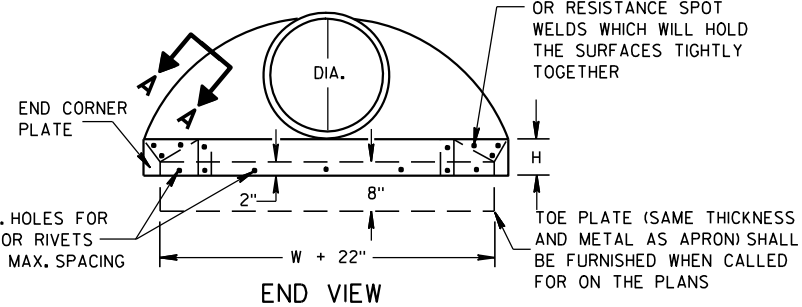
* EXCEPT CENTER PANEL SEE GENERAL NOTES

REINFORCED CONCRETE APRON ENDWALLS									
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE	
	T	A	B	C	D	E	G		
12	2	4	24	48 1/8	72 1/8	24	2	3 to 1	
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1	
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1	
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1	
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1	
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1	
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1	
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1	
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1	
48	5	24	72	26	98	84	5	3 to 1	
54	5 1/2	27	65	33 1/4-35	98 1/4-100	90	5 1/2	2 1/2 to 1	
60	6	30-35	60	39	99	96	5	2 to 1	
66	6 1/2	24-30	72-78	21-27	99	102	5 1/2	2 to 1	
72	7	24-36	78	21	99	108	6	2 to 1	
78	7 1/2	24-36	78	21	99	114	6 1/2	2 to 1	
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1	
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1	

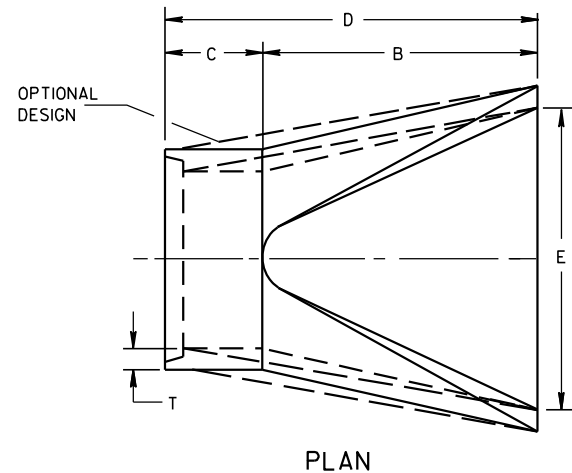
* MINIMUM
** MAXIMUM



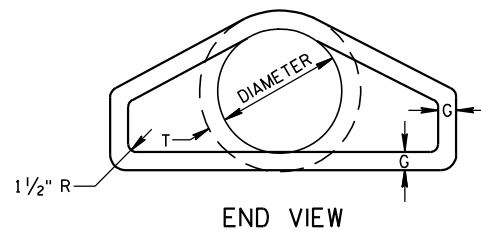
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



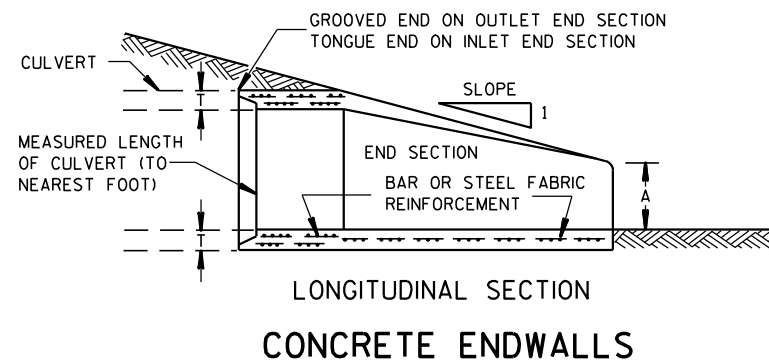
SIDE ELEVATION
METAL ENDWALLS



PLAN

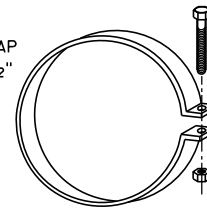


END VIEW

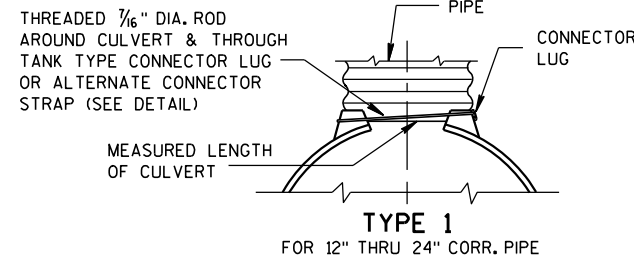


LONGITUDINAL SECTION
CONCRETE ENDWALLS

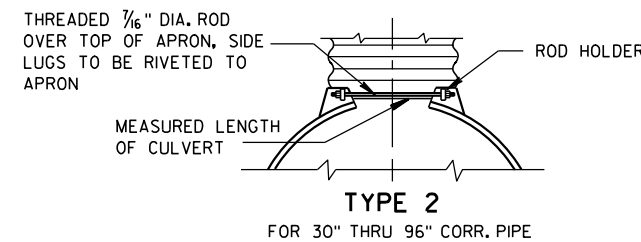
1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



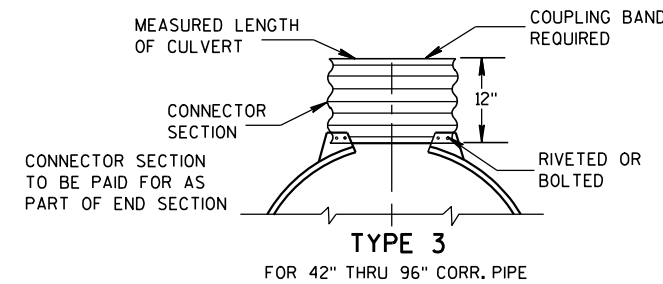
ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



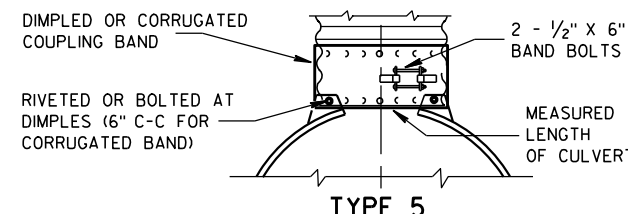
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

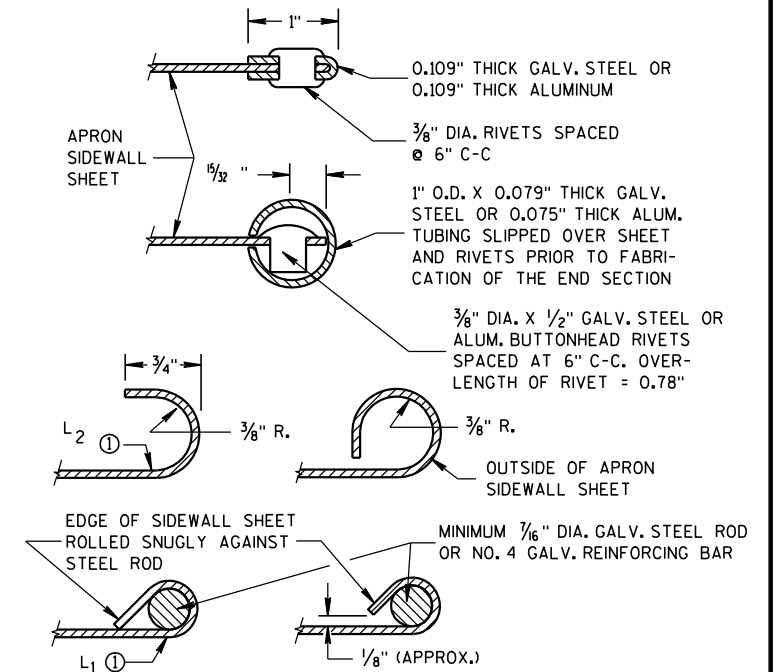
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VICE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

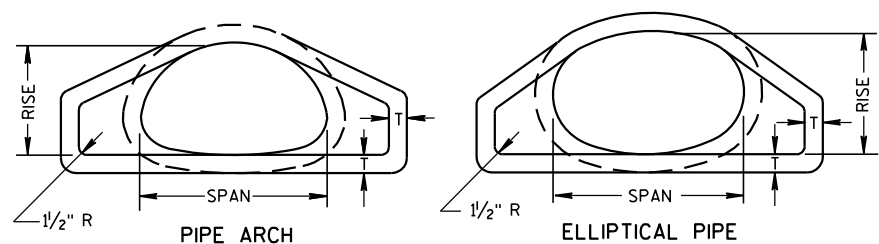
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

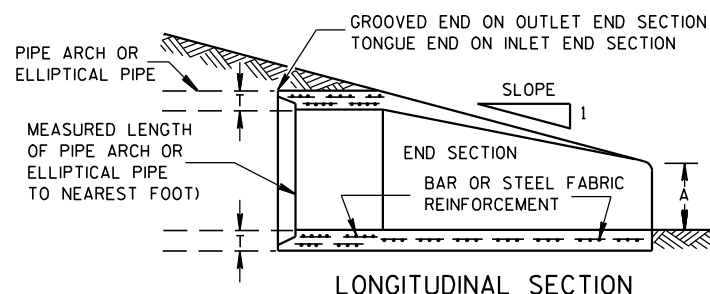
APRON ENDWALLS FOR
CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 /S/ Rory L. Rhinesmith
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

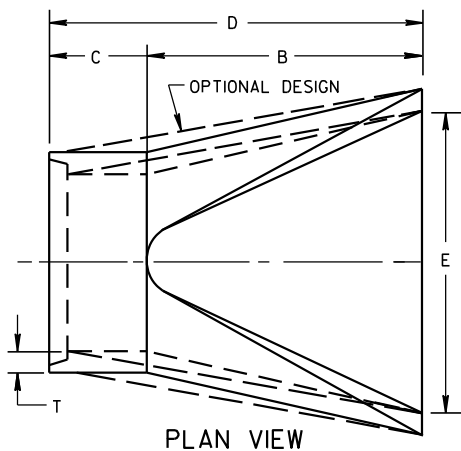


END VIEW



LONGITUDINAL SECTION

CONCRETE ENDWALLS



PLAN VIEW

2- 2/3" X 1/2" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 (±1")	L2 (±1")	W (±2")		
15	17	13	.064	.060	7	9	6	19	14	16	30	2 1/2 to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19 3/8	36	2 1/2 to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21 3/4	42	2 1/2 to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27 1/2	48	2 1/2 to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37 5/8	60	2 1/2 to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45 3/8	75	2 1/2 to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54 3/4	85	2 1/2 to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2 1/2 to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72 3/4	102	2 1/4 to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82 1/4	114	2 1/4 to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 (±1")	L2 (±1")	W (±2")		
48	53	41	.109	.105	18	26	12	63	24	72 3/4	90	2 1/2 to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82 1/4	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1 1/2 to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1 1/2 to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1 1/2 to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1 1/2 to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1 1/2 to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1 1/2 to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED. * EXCEPT CENTER PANEL SEE GENERAL NOTES

REINFORCED CONCRETE PIPE ARCH										
EQUIV. DIA. (Inches)	DIMENSIONS (Inches)									APPROX. SLOPE
	**SPAN	**RISE	T	A	B	C	D	E		
24	29	18	3	8 1/2	39	33	72	48	3 to 1	
30	36	22	3 1/2	9 1/2	50	46	96	60	3 to 1	
36	44	27	4	11 1/8	60	36	96	72	3 to 1	
42	51	31	4 1/2	15 5/8	60	36	96	78	3 to 1	
48	58	36	5	21	60	36	96	84	3 to 1	
54	65	40	5 1/2	25 1/2	60	36	96	90	3 to 1	
60	73	45	6	31	60	36	96	96	3 to 1	
72	88	54	7	31	60	39	99	120	2 to 1	
84	102	62	8	28 1/2	83	19	102	144	2 to 1	

REINFORCED CONCRETE ELLIPTICAL PIPE										
EQUIV. DIA. (Inches)	DIMENSIONS (Inches)									APPROX. SLOPE
	**SPAN	**RISE	T	A	B	C	D	E		
24	30	19	3 1/4	8 1/2	39	33	72	48	3 to 1	
30	38	24	3 3/4	9 1/2	54	18	72	60	3 to 1	
36	45	29	4 1/2	11 1/8	60	24	84	72	2 1/2 to 1	
42	53	34	5	15 3/4	60	36	96	78	2 1/2 to 1	
48	60	38	5 1/2	21	60	36	96	84	2 1/2 to 1	
54	68	43	6	25 1/2	60	36	96	90	2 1/2 to 1	
60	76	48	6 1/2	30	60	36	96	96	2 1/2 to 1	

**NOMINAL SIZE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

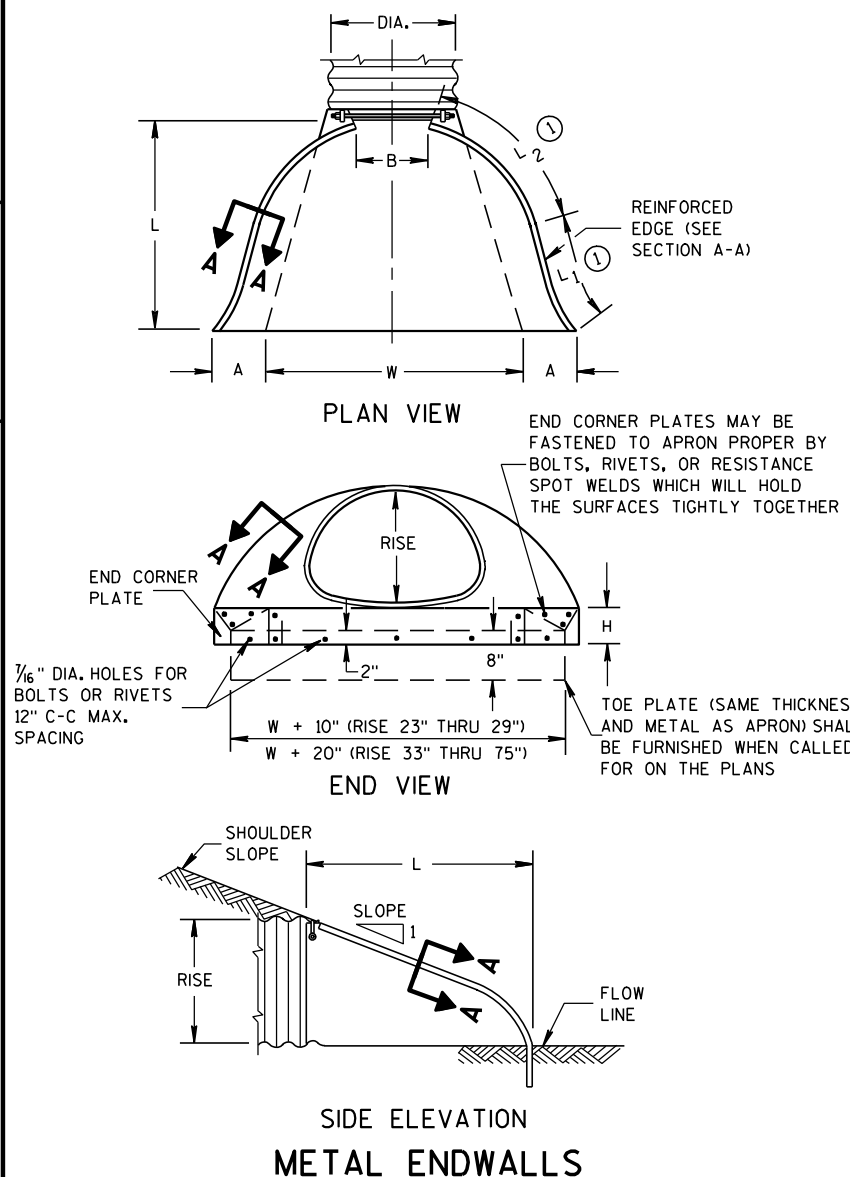
CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

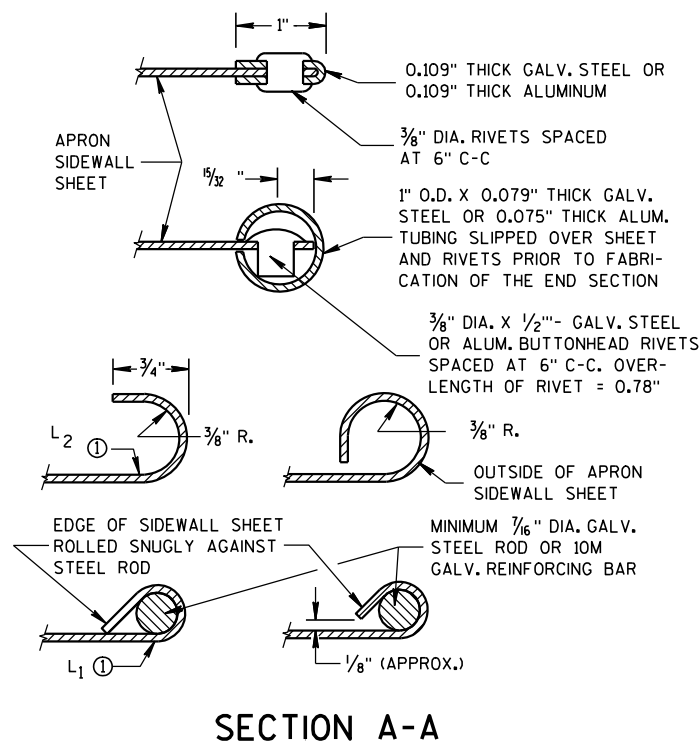
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



METAL ENDWALLS

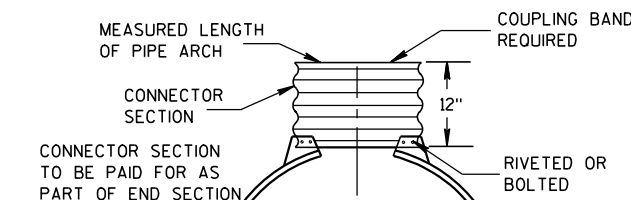


SECTION A-A



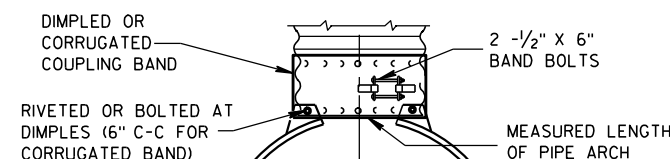
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR: ALL SIZES CORRUGATED PIPE ARCHES

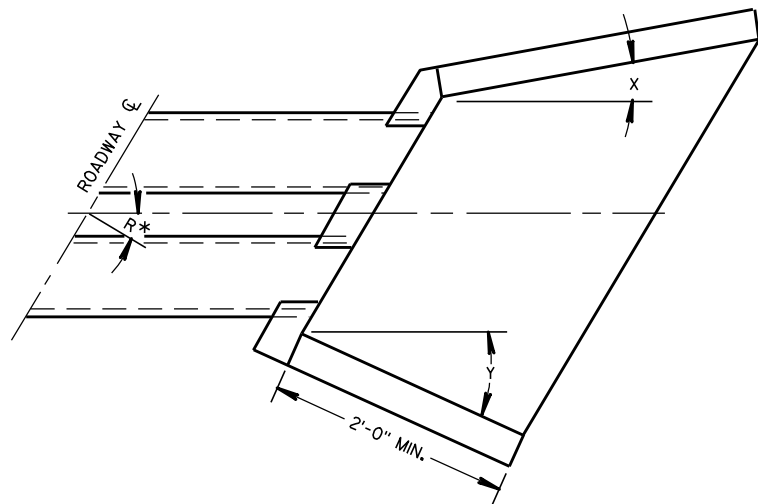
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 /S/ Rory L. Rhinesmith
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

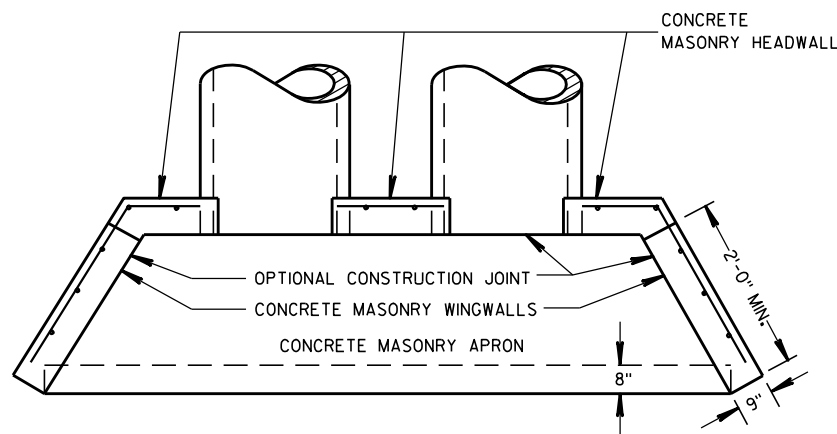
FILL SLOPES FLATTER THAN 2 1/2:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

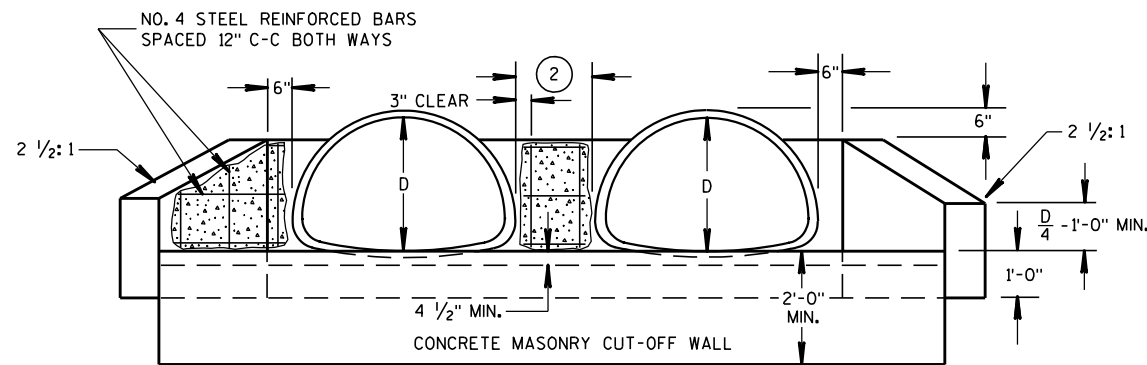
1 MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

2 THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

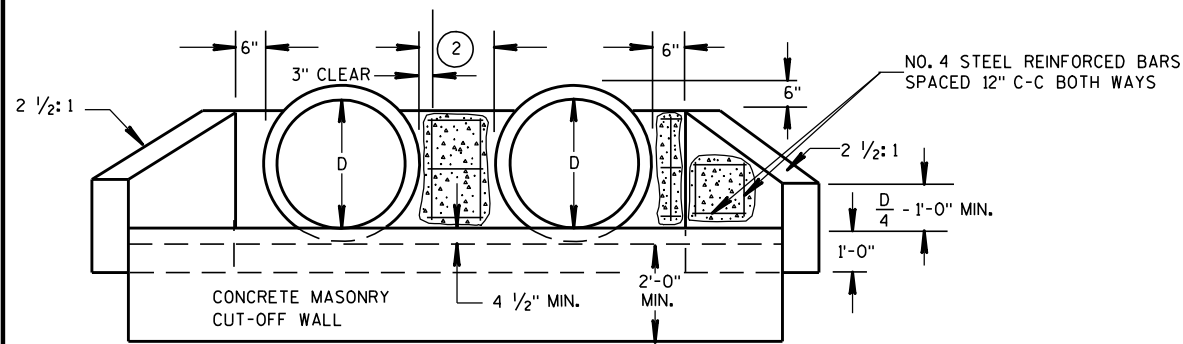
DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	1/2 DIA. OR SPAN
OVER 72"	3'-0"



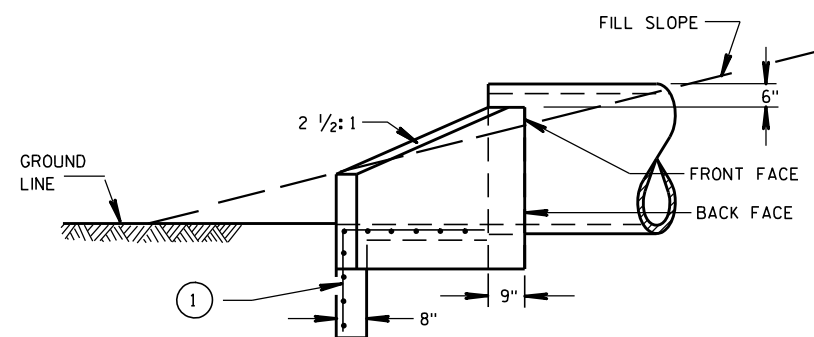
**PLAN VIEW
CULVERT PIPE AND PIPE ARCH**



**END ELEVATION
PIPE ARCH**



**END ELEVATION
CULVERT PIPE**



**SIDE ELEVATION
CULVERT PIPE AND PIPE ARCH**

6

6

S.D.D. 8 F 10-1

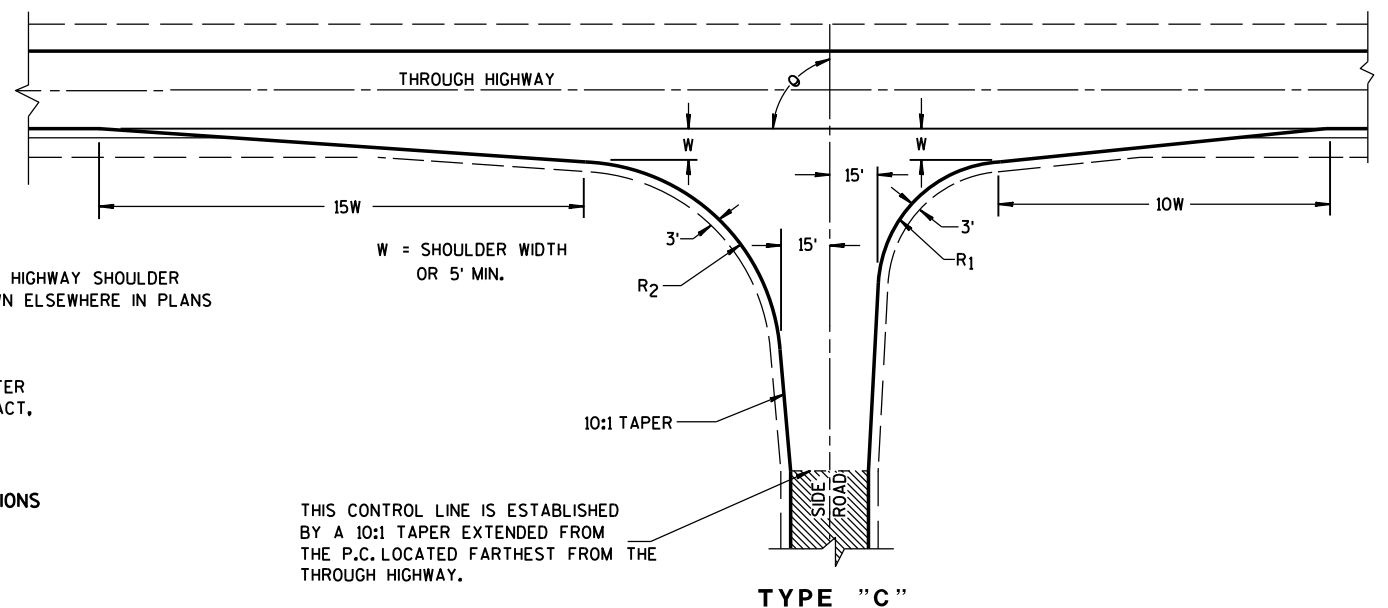
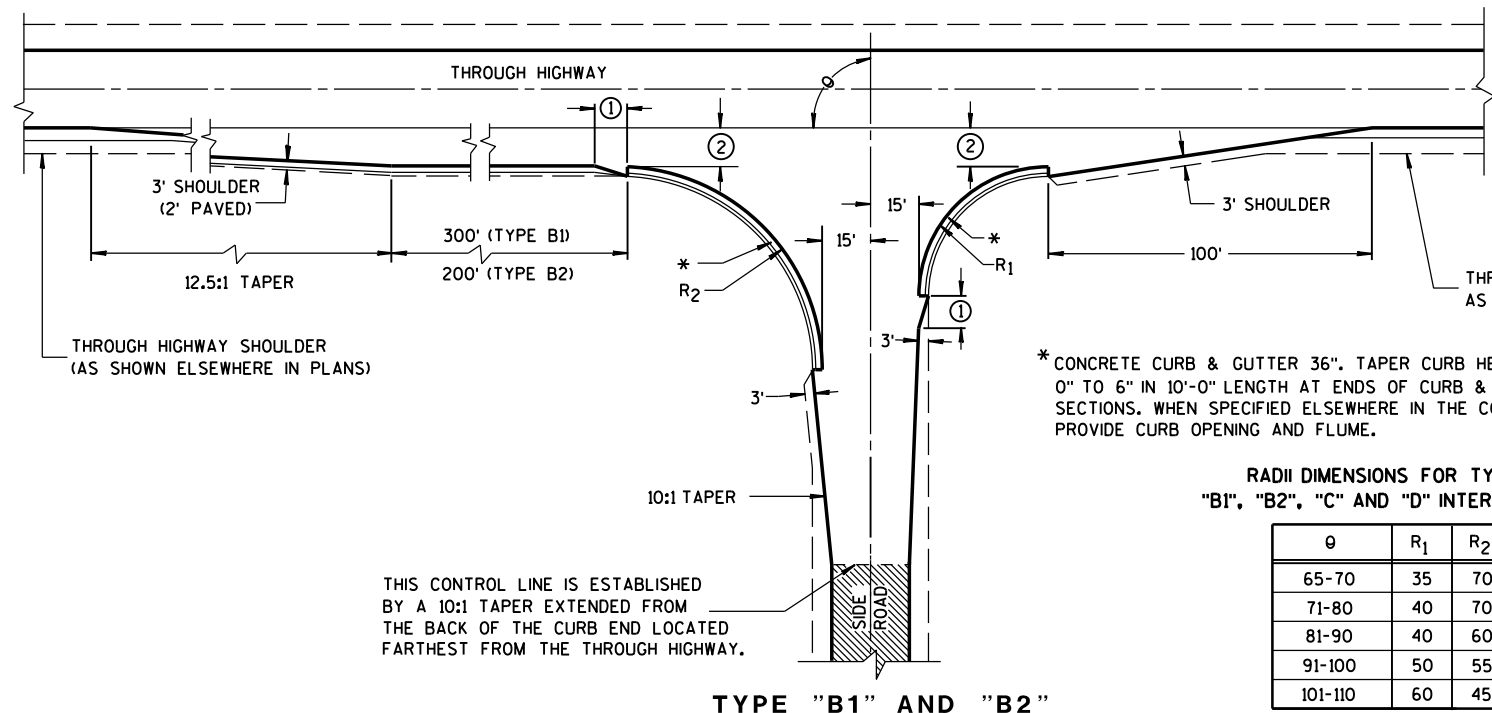
S.D.D. 8 F 10-1

**CONCRETE MASONRY ENDWALLS
FOR CULVERT PIPE AND
PIPE ARCH**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/98 /S/ Rory L. Rhinesmith
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

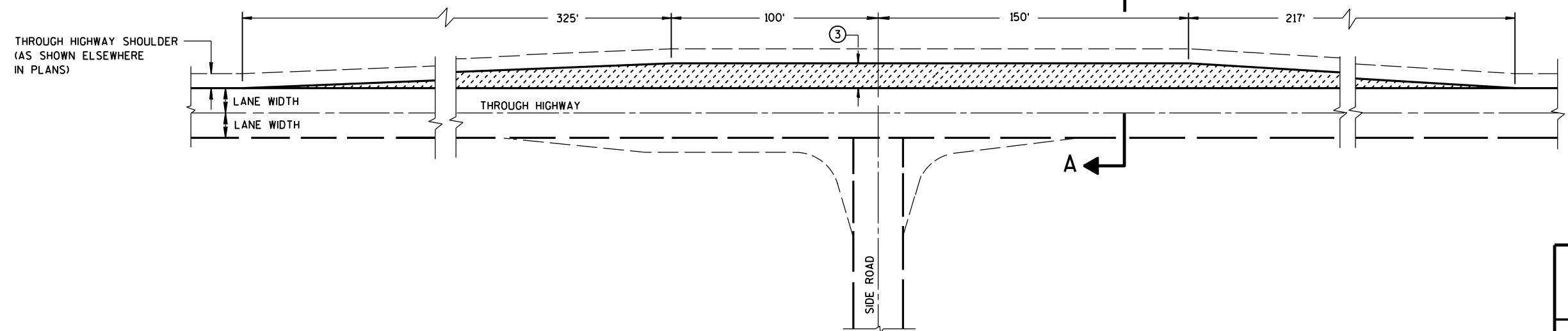
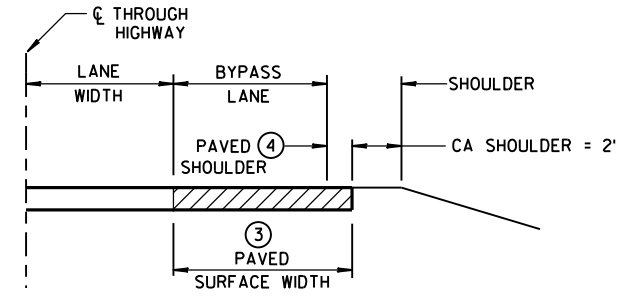
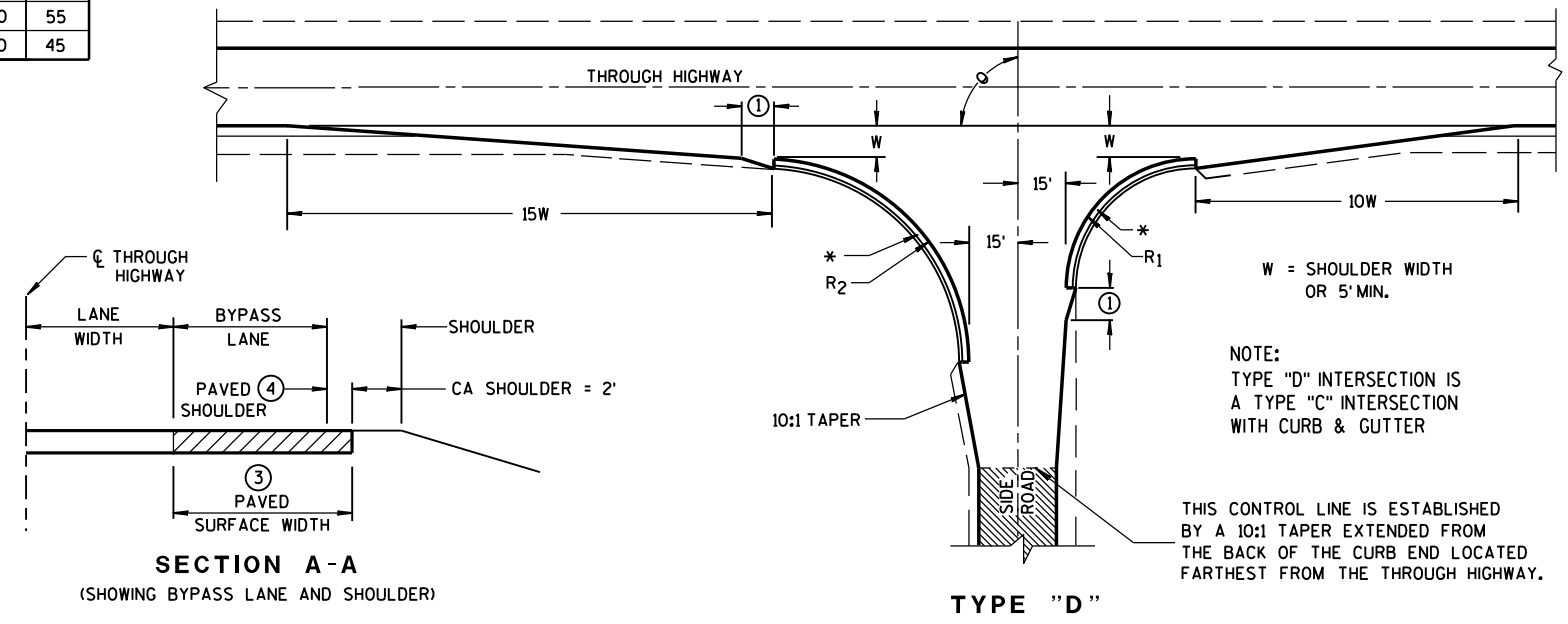
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

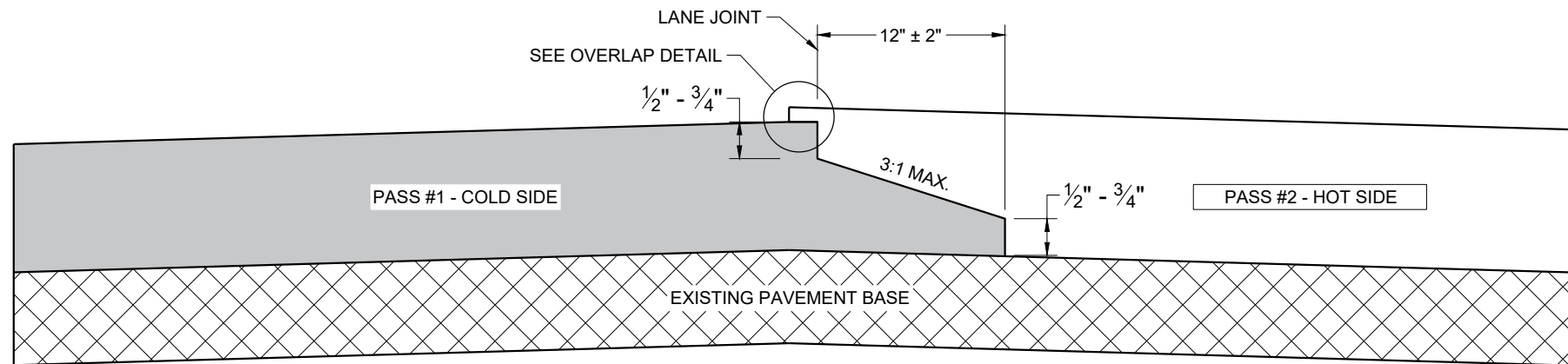
- ① 10-FT TYPICAL.
- ② 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.
- **10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- ③ BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- ④ BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



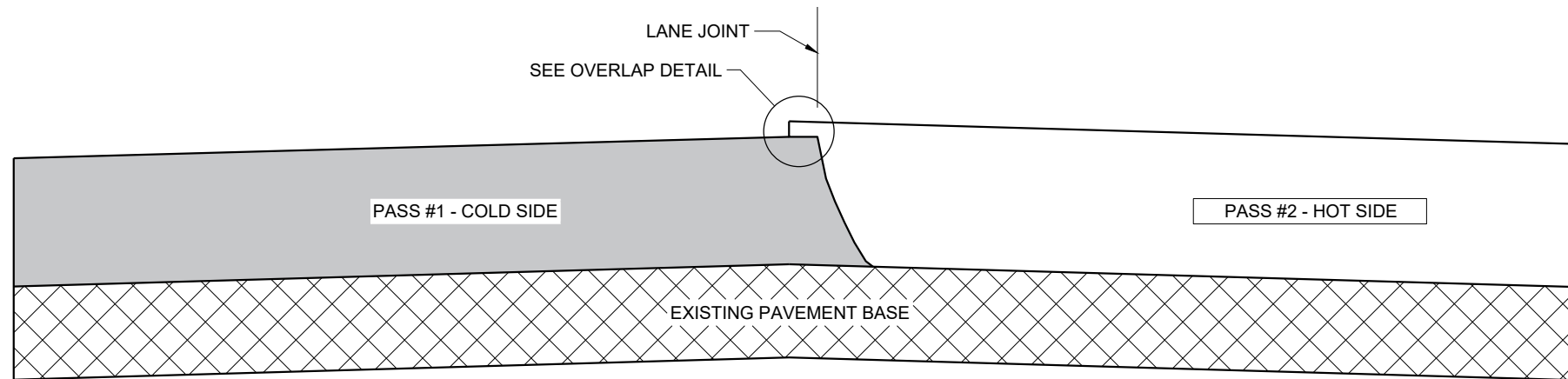
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

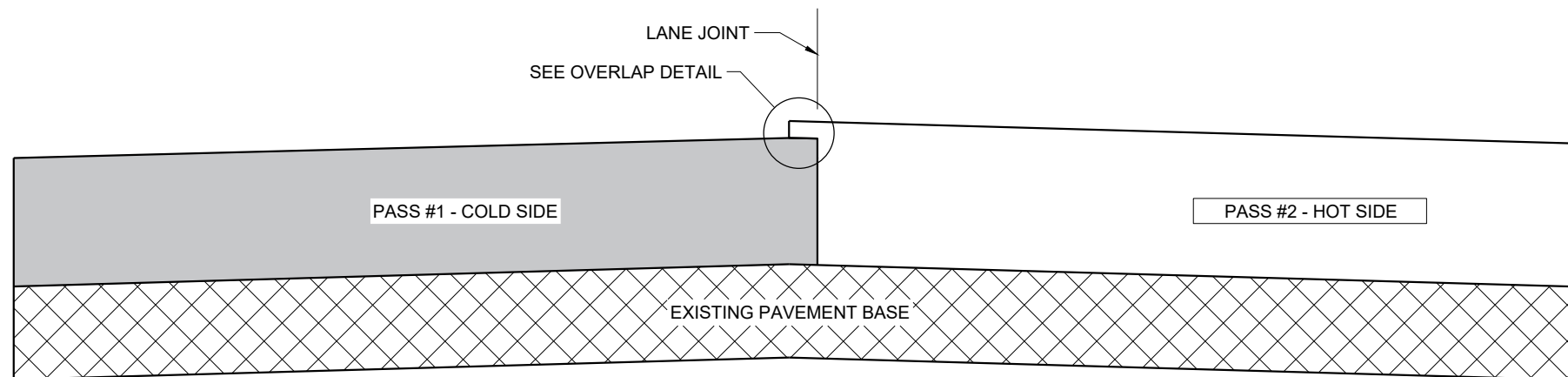
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



**TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT**



**TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT**



**TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)**

GENERAL NOTES

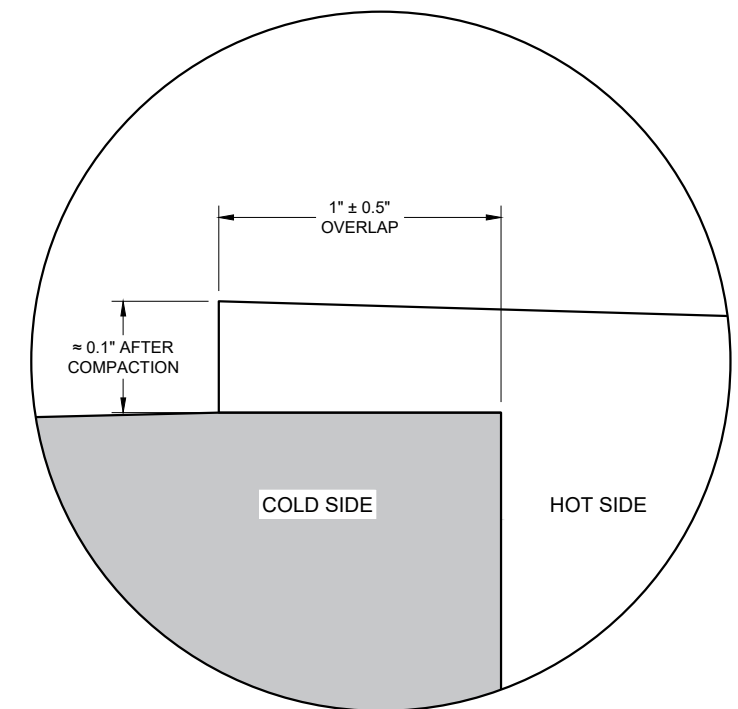
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY $1" \pm 0.5"$ AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY $0.1"$ AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO $2"$ FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

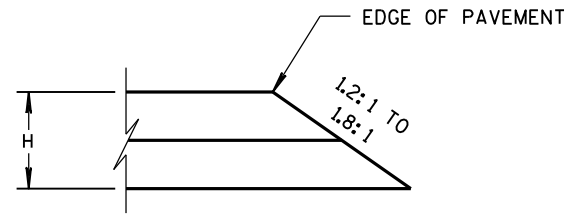
6

6

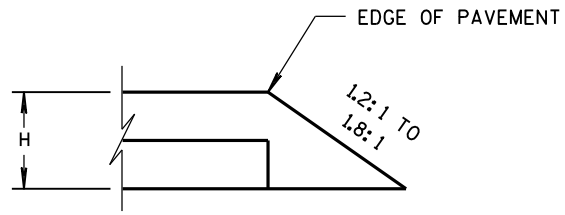
SDD 13C19 - 03

SDD 13C19 - 03

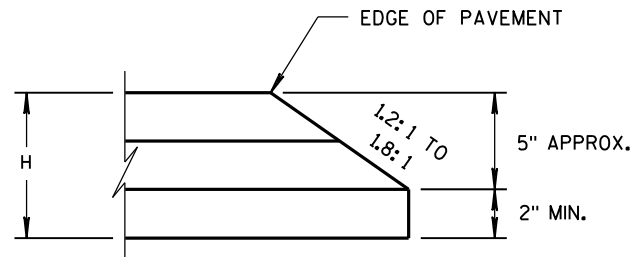
HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGINEER
FHWA	



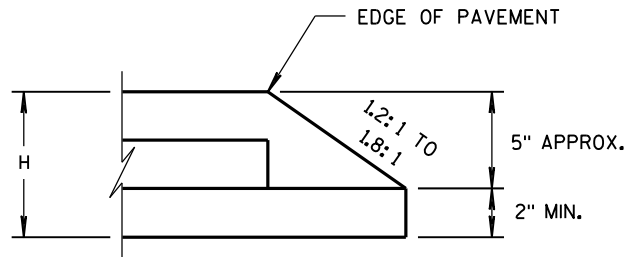
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

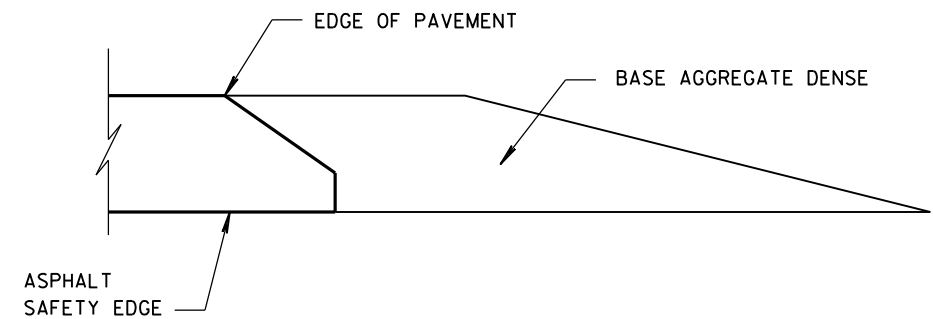


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

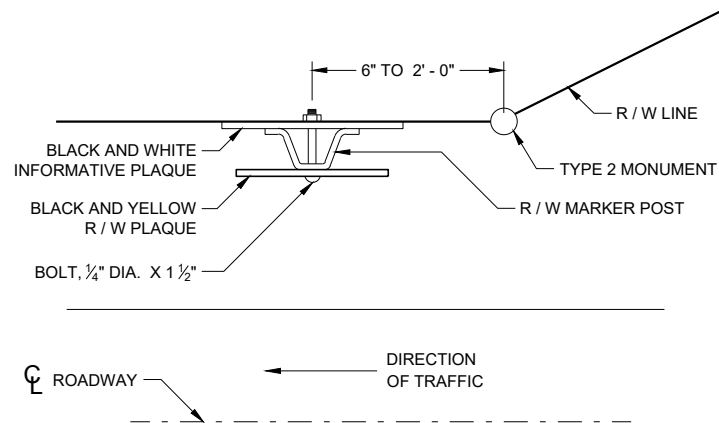
6

6

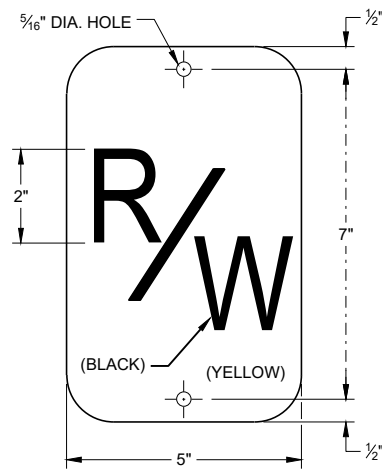
S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE _{SM}	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE	/s/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

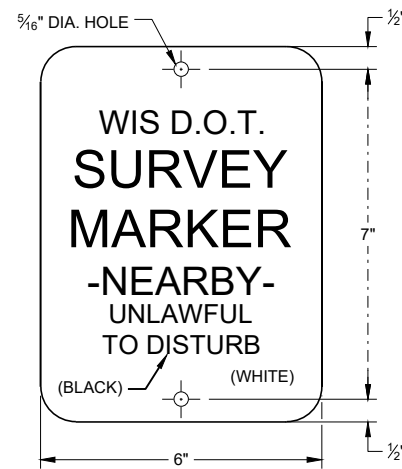


**PLAN VIEW
STEEL MARKER POST**



R / W PLAQUE

THE RIGHT-OF-WAY PLAQUE AND INFORMATIVE PLAQUE WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



INFORMATIVE PLAQUE

GENERAL NOTES

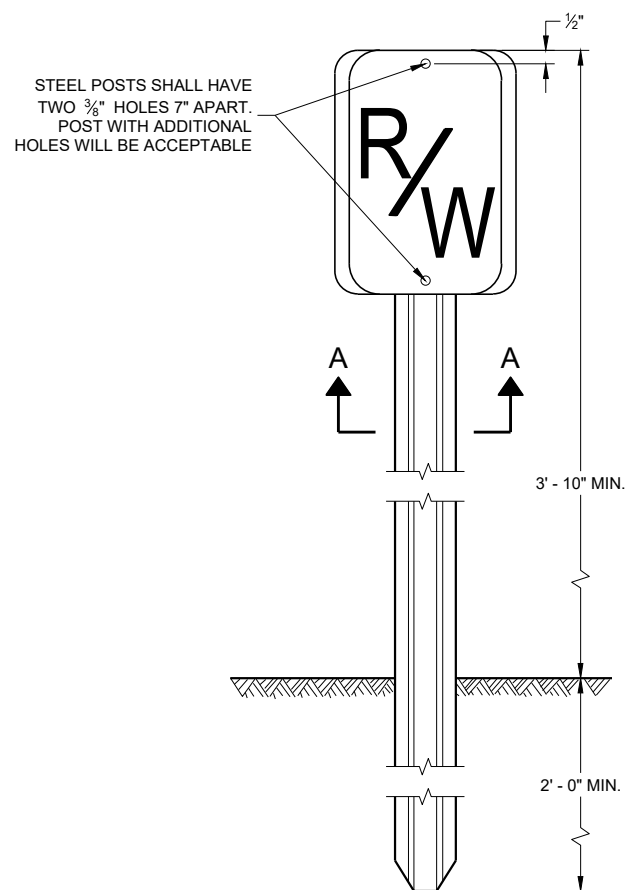
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A STEEL MARKER POST FOR RIGHT -OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

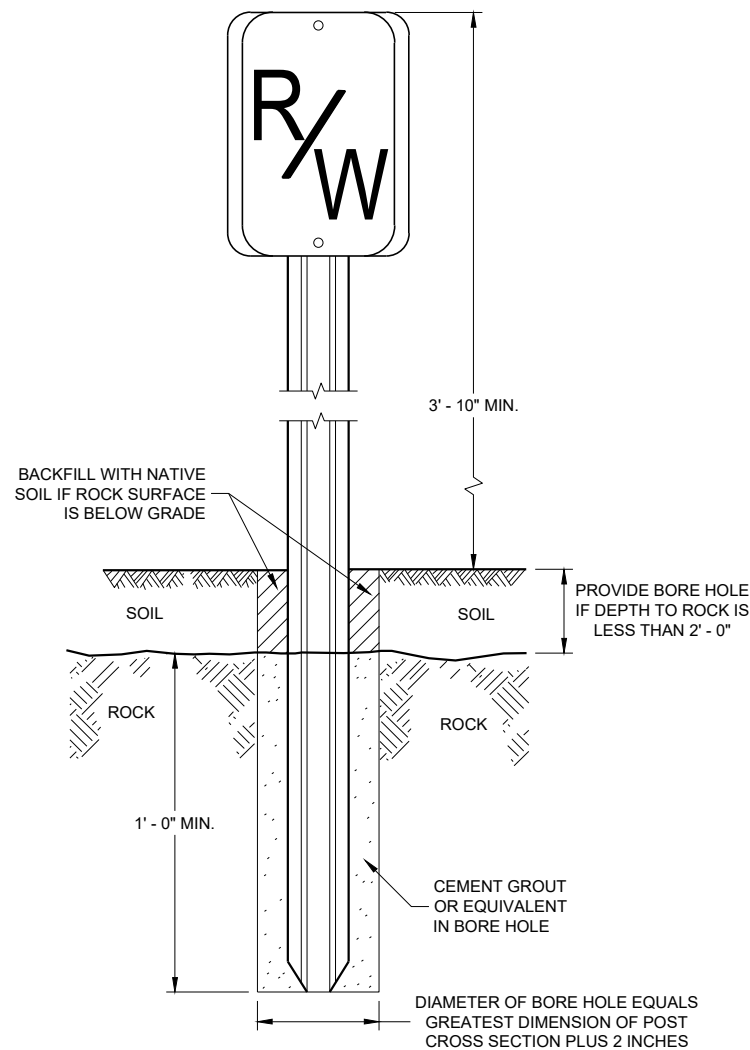
THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFORMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. "R/W" AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

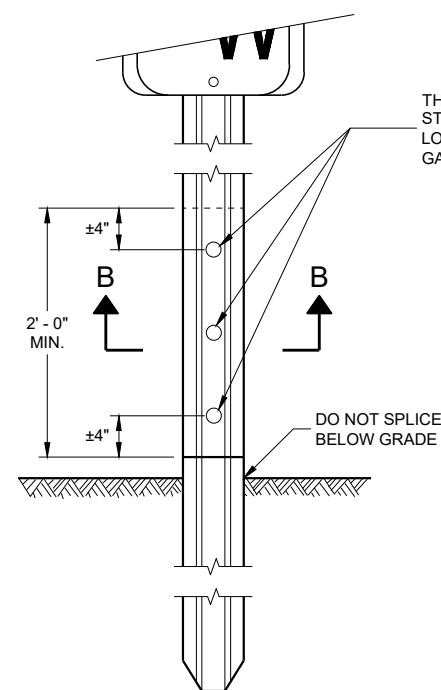
- ① IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3' - 10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR. FILL THE BORE HOLE WITH CEMENT GROUT OR EQUIVALENT, DEPENDING ON THE STABILITY OF THE ROCK.



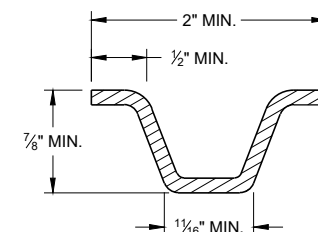
**FRONT VIEW
STEEL MARKER POST**



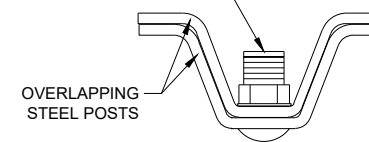
**FRONT VIEW
ROCK INSTALLATION** ①



**FRONT VIEW
SPLICE DETAIL**



MIN. WEIGHT 1.12 LB./FT.
SECTION A - A



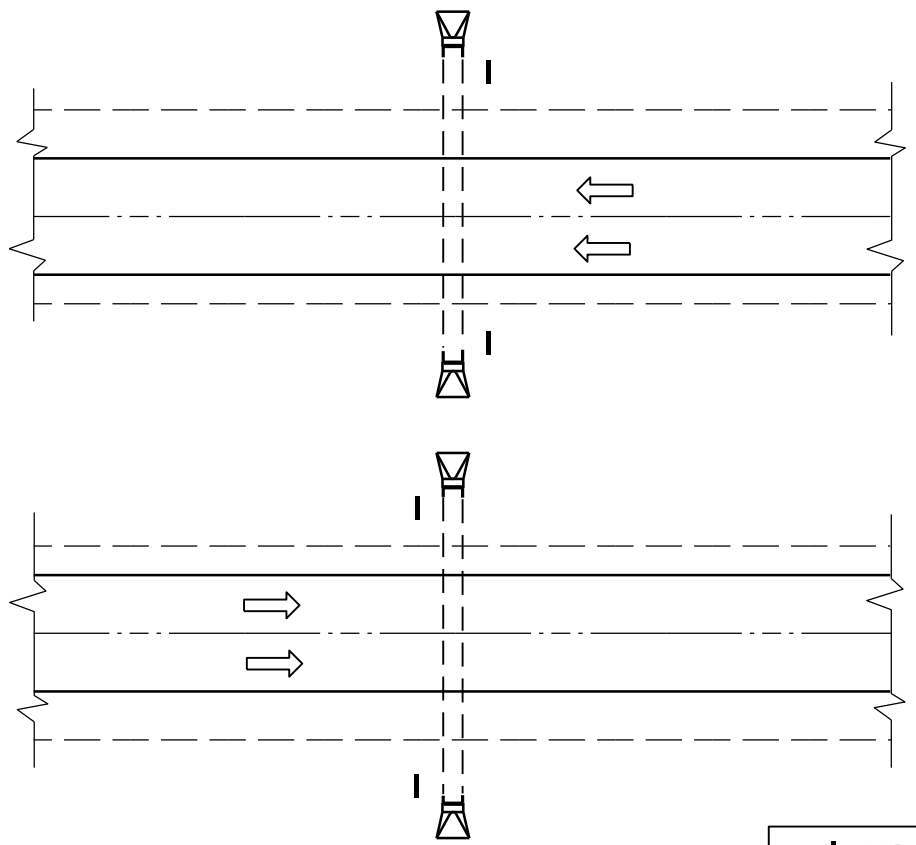
SECTION B - B

**MARKER POST
FOR RIGHT - OF - WAY**

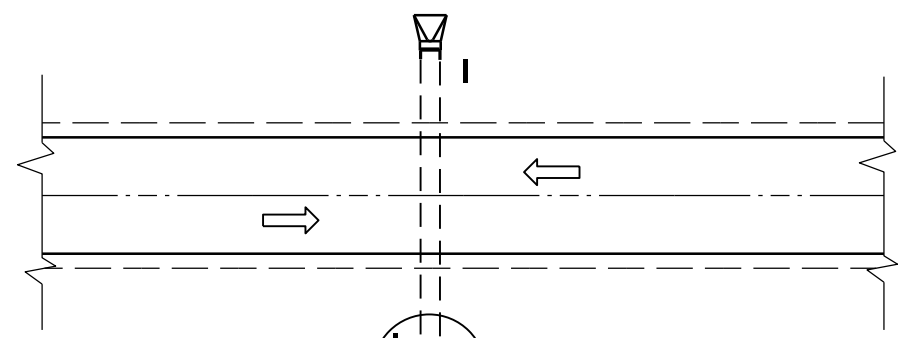
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/18/2016 DATE /S/ Ray Kumapayi
DATE CHIEF SURVEYING AND MAPPING ENGINEER

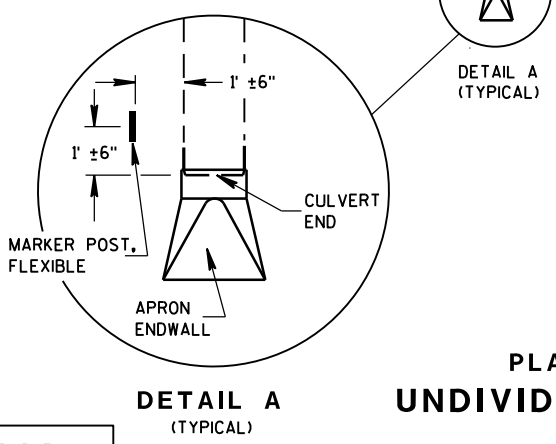
FHWA



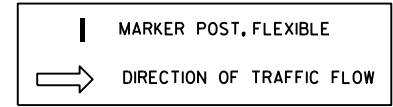
PLAN VIEW
DIVIDED HIGHWAY



PLAN VIEW
UNDIVIDED HIGHWAY

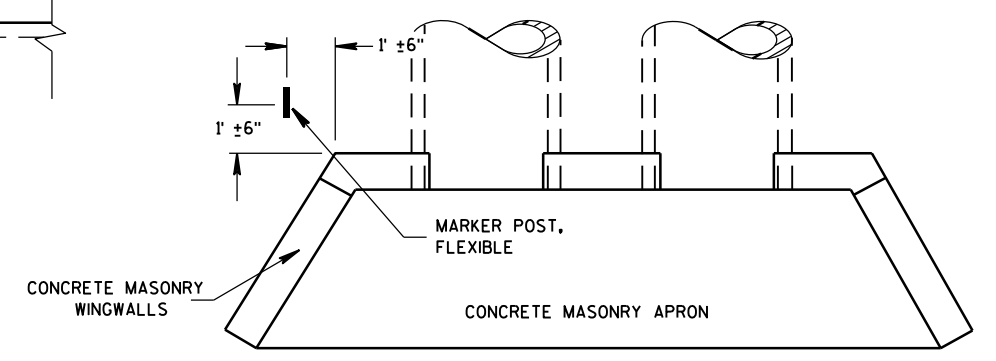


DETAIL A
(TYPICAL)



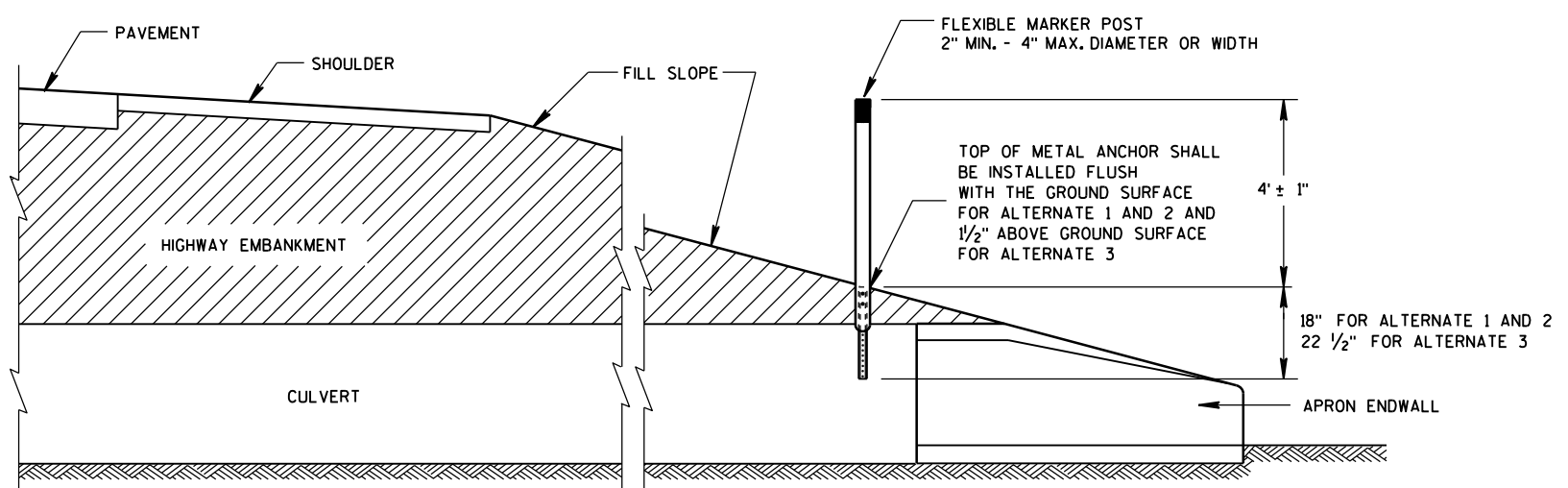
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION
FLEXIBLE MARKER POST

**FLEXIBLE MARKER POST
FOR CULVERT END**

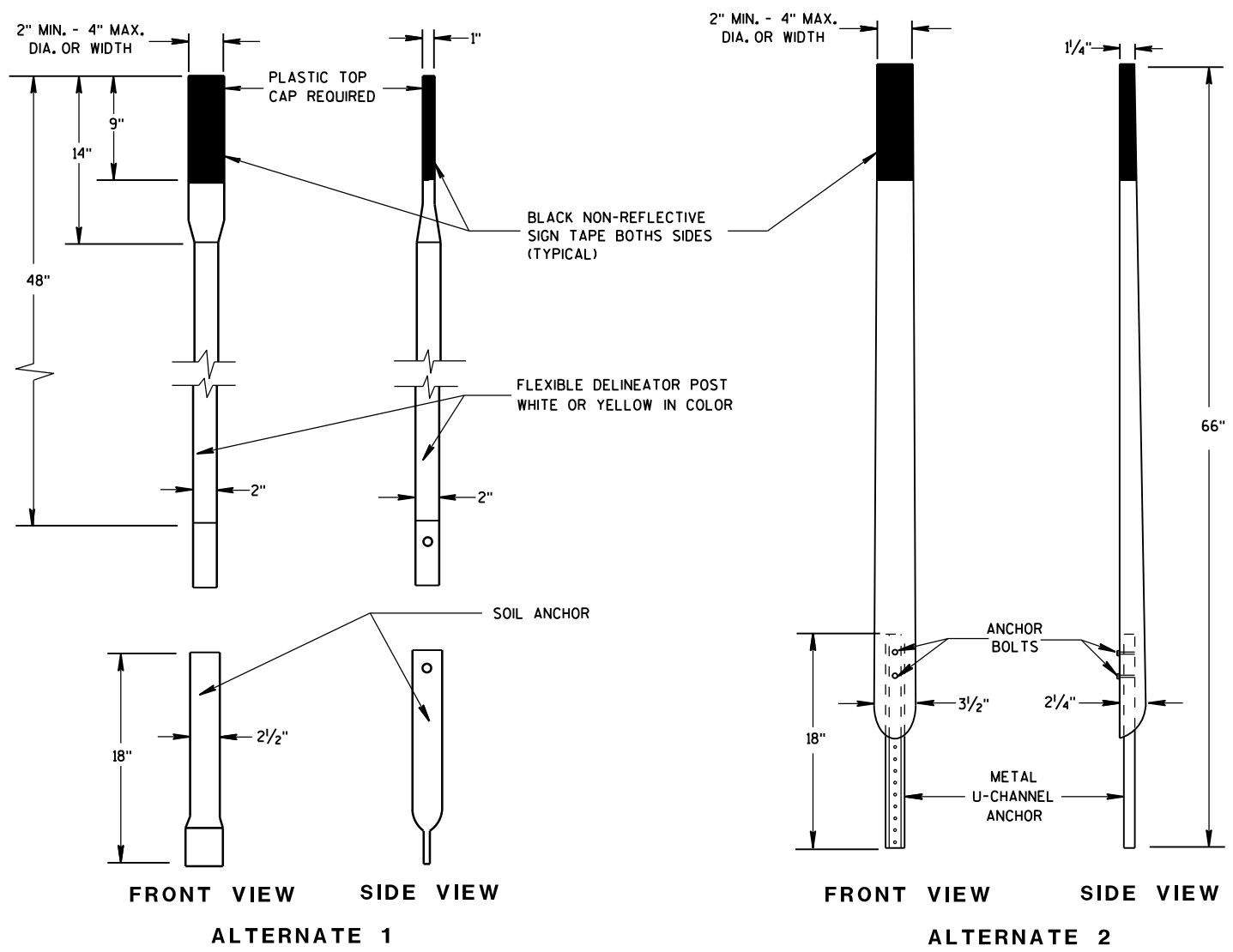
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

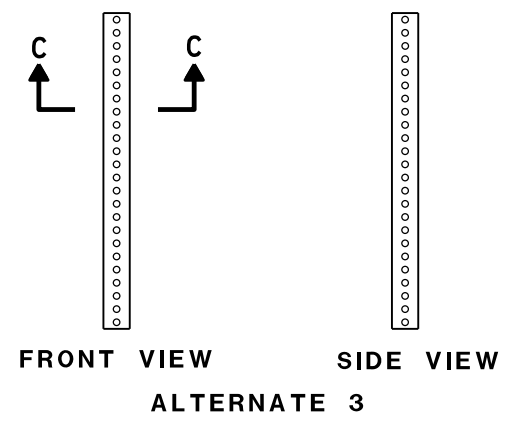
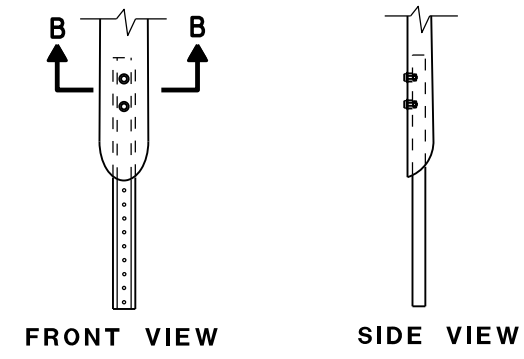
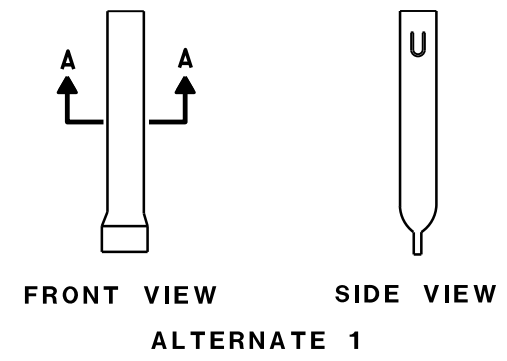
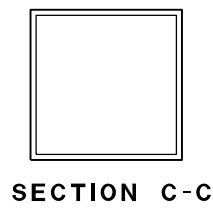
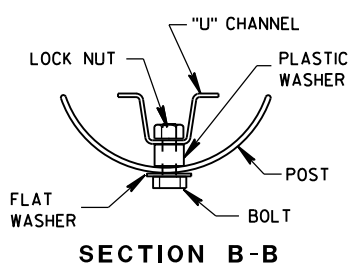
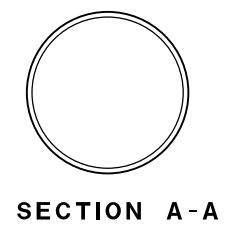
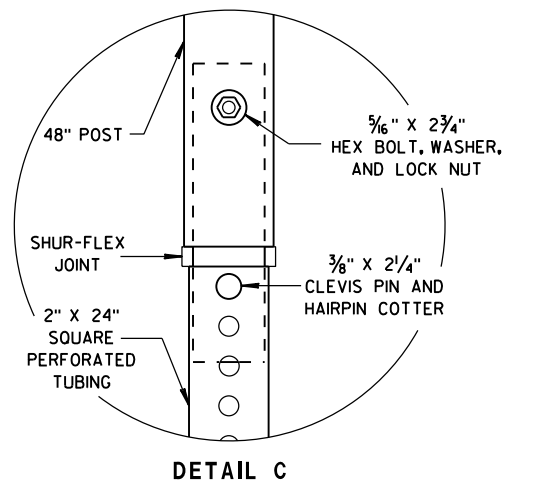
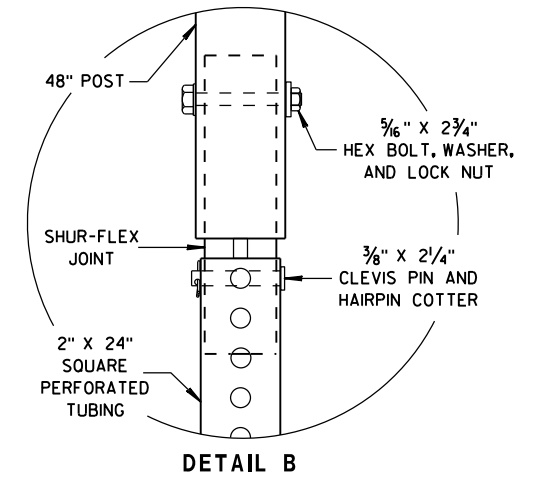
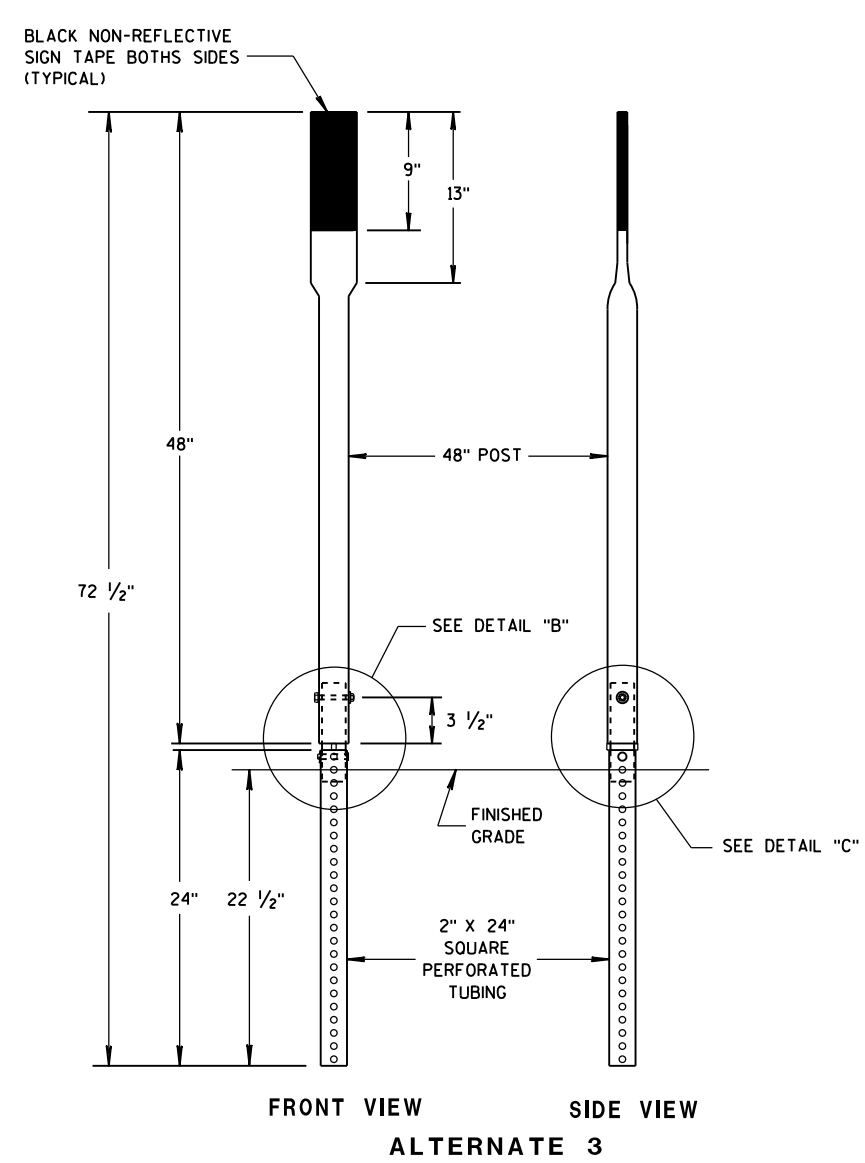
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S.D.D. 15 A 3-2a

S.D.D. 15 A 3-2a

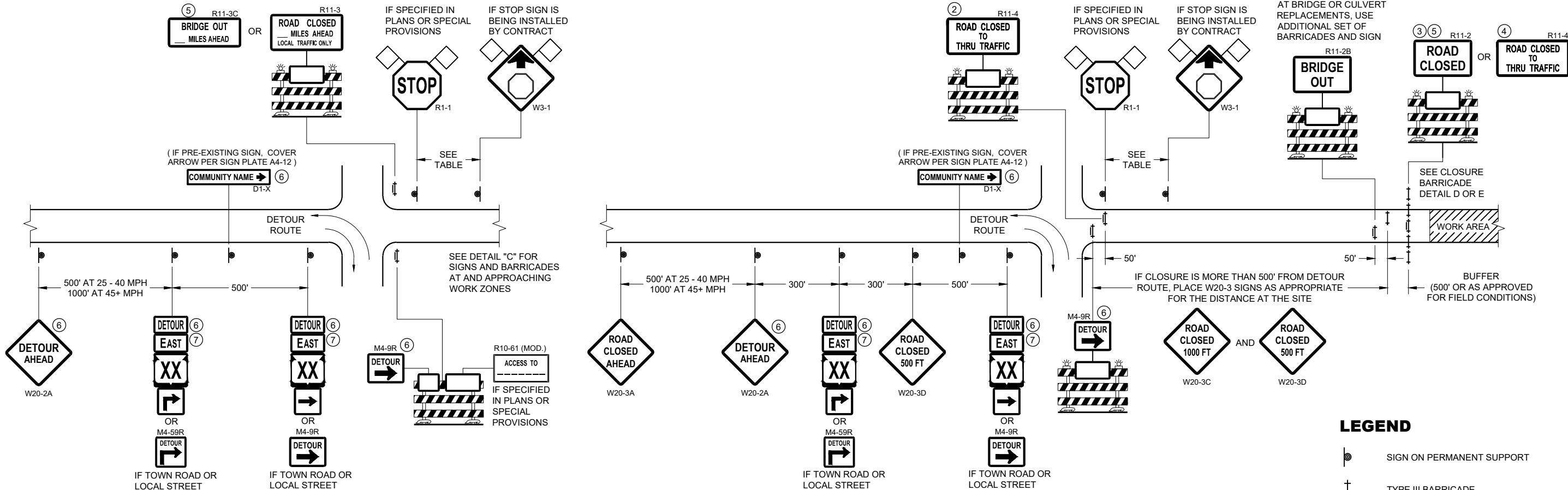


FLEXIBLE MARKER POSTS



FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST FOR CULVERT END	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/1/2012 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

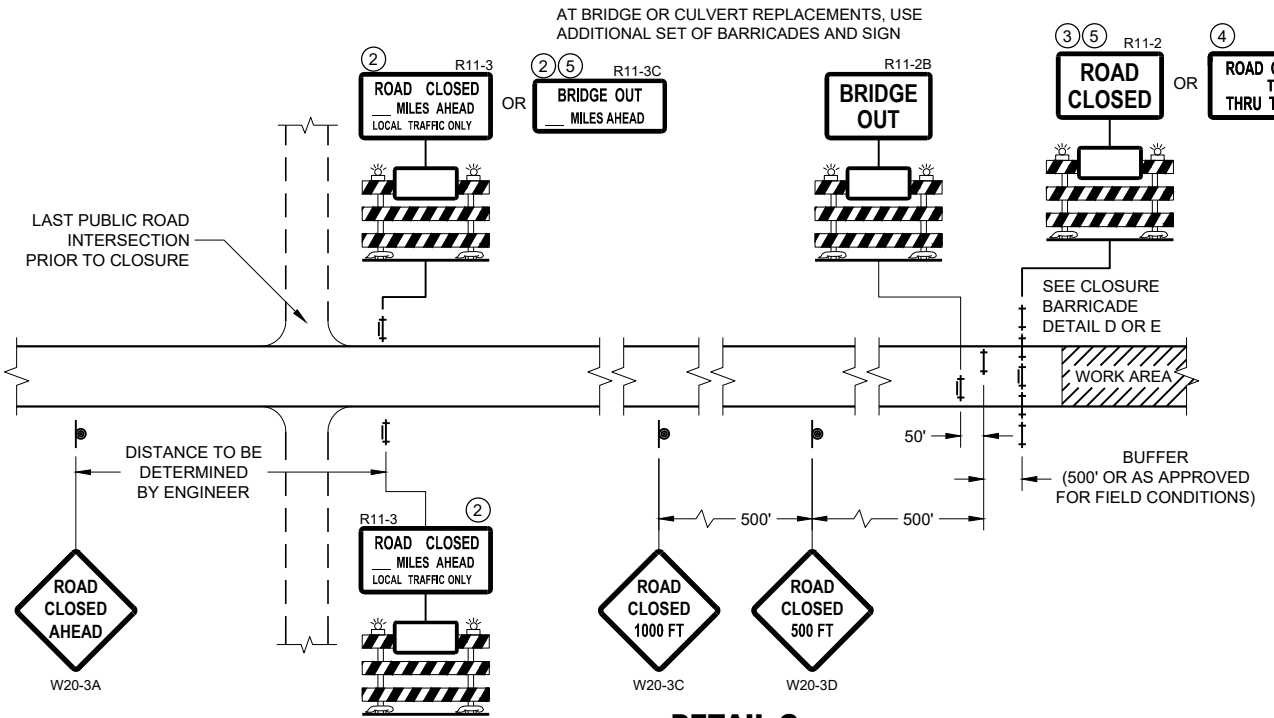
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

- LEGEND**
- SIGN ON PERMANENT SUPPORT
 - TYPE III BARRICADE
 - TYPE III BARRICADE WITH ATTACHED SIGN
 - TYPE "A" WARNING LIGHT (FLASHING)
 - WORK AREA
 - FLAGS, 16" X 16" MIN. (ORANGE)

- M4 - 8
- M3 - X
- M1 - 4 OR M1 - 6 OR M1 - 5A
- M05 - 1 OR M06 - 1

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

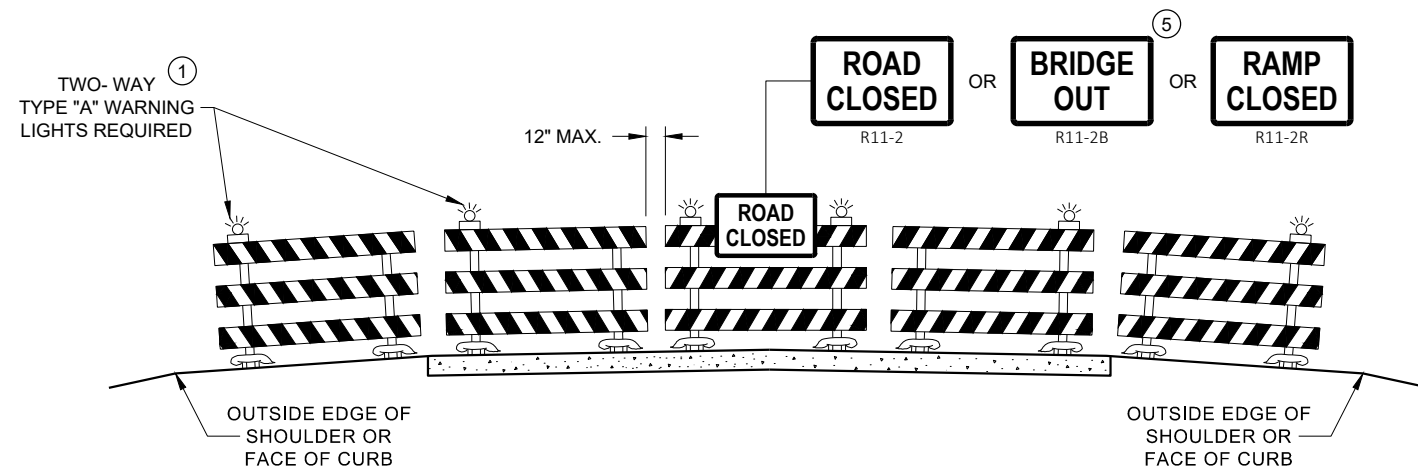


**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

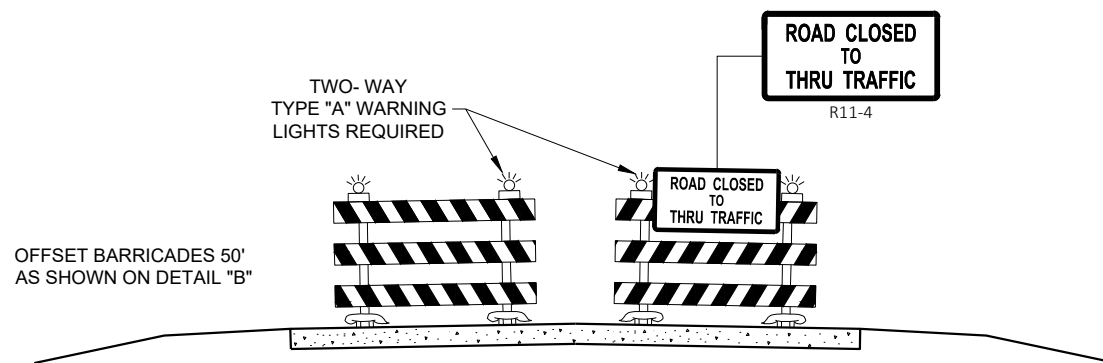
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE DATE WORK ZONE ENGINEER
FHWA



**DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW**



**DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

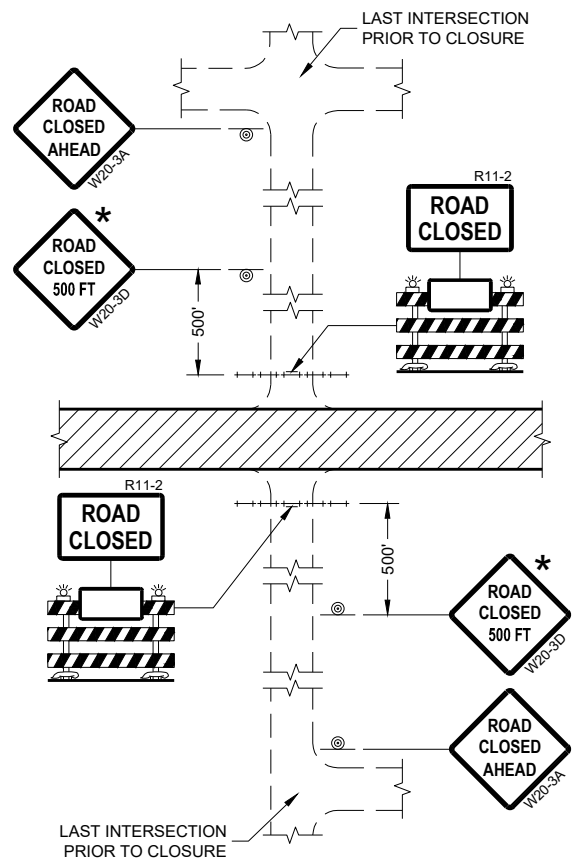
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

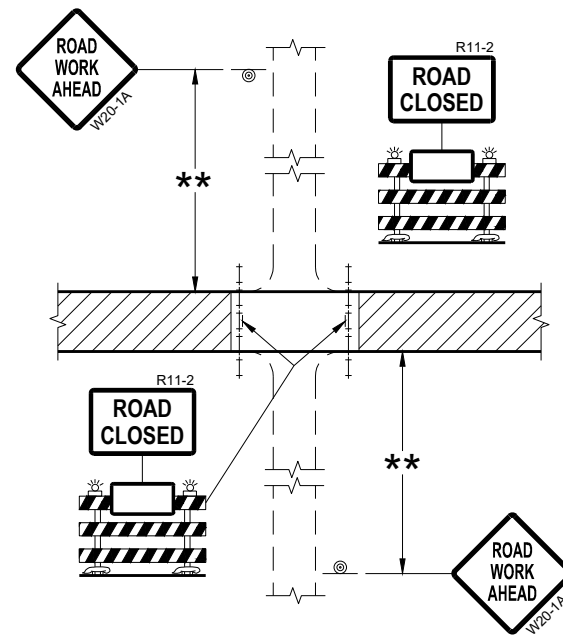
**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

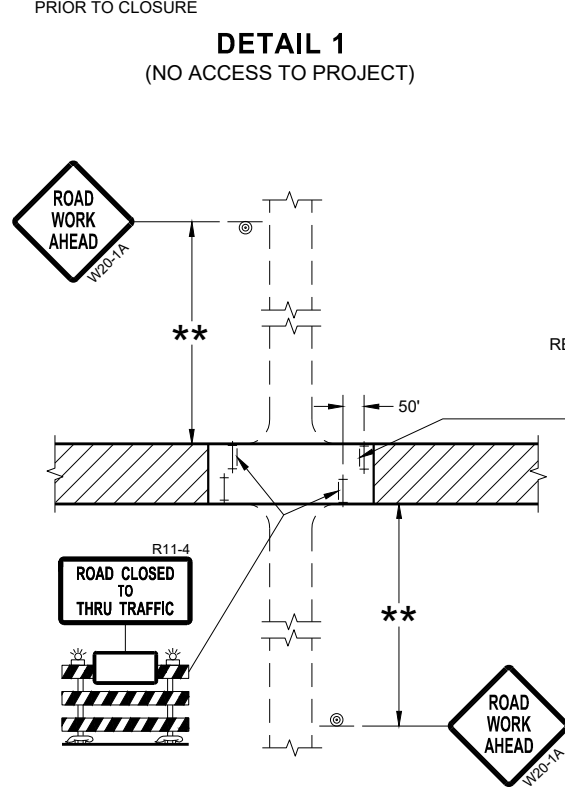
APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA



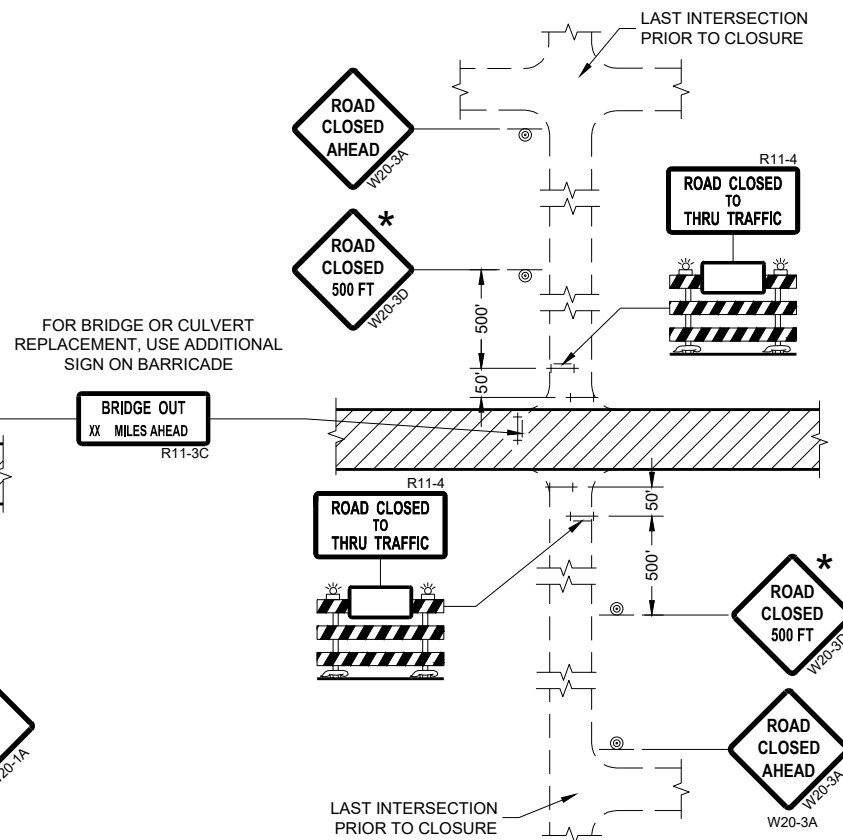
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

**BARRICADES AND SIGNS
FOR
SIDEROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.




ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

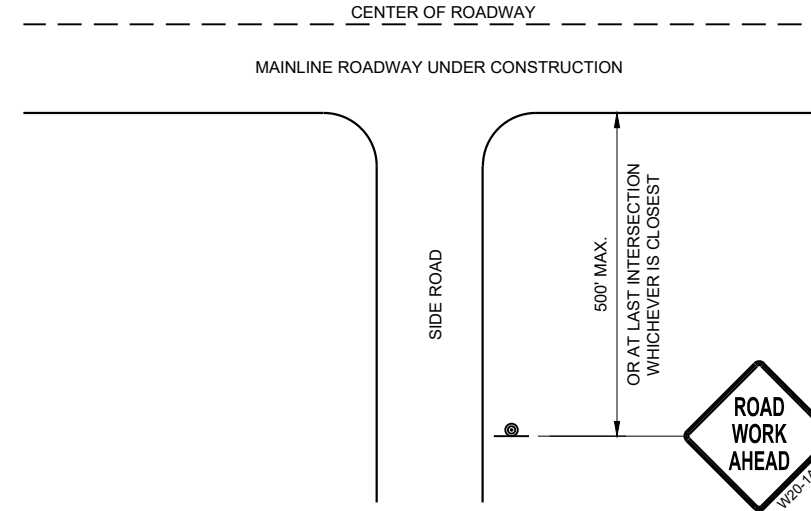
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

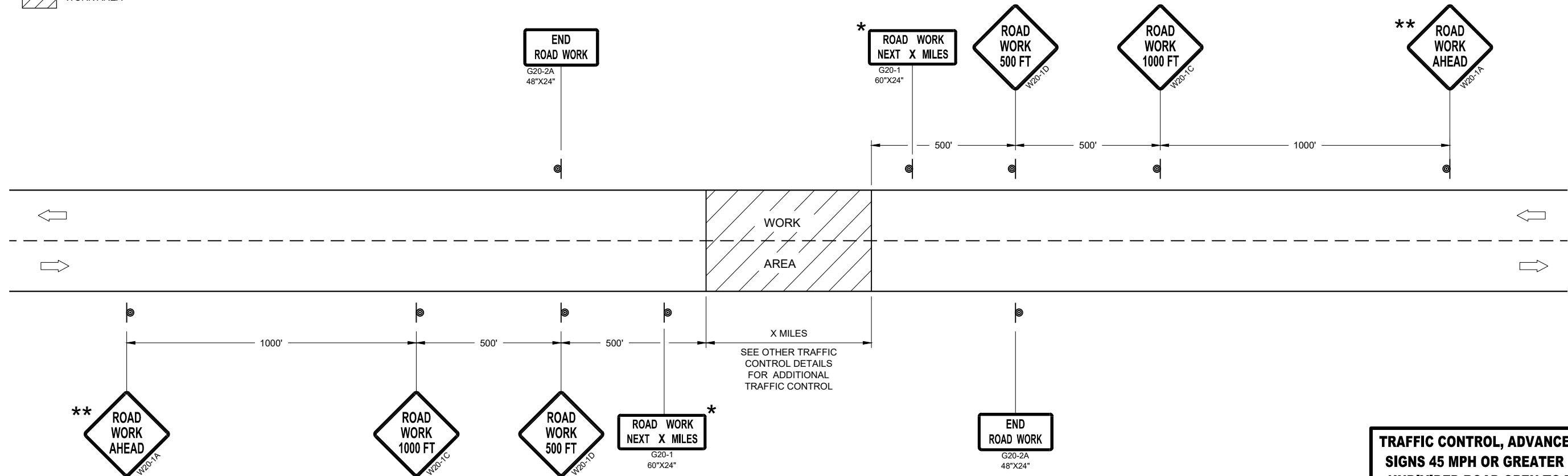
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- ** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



**TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL**



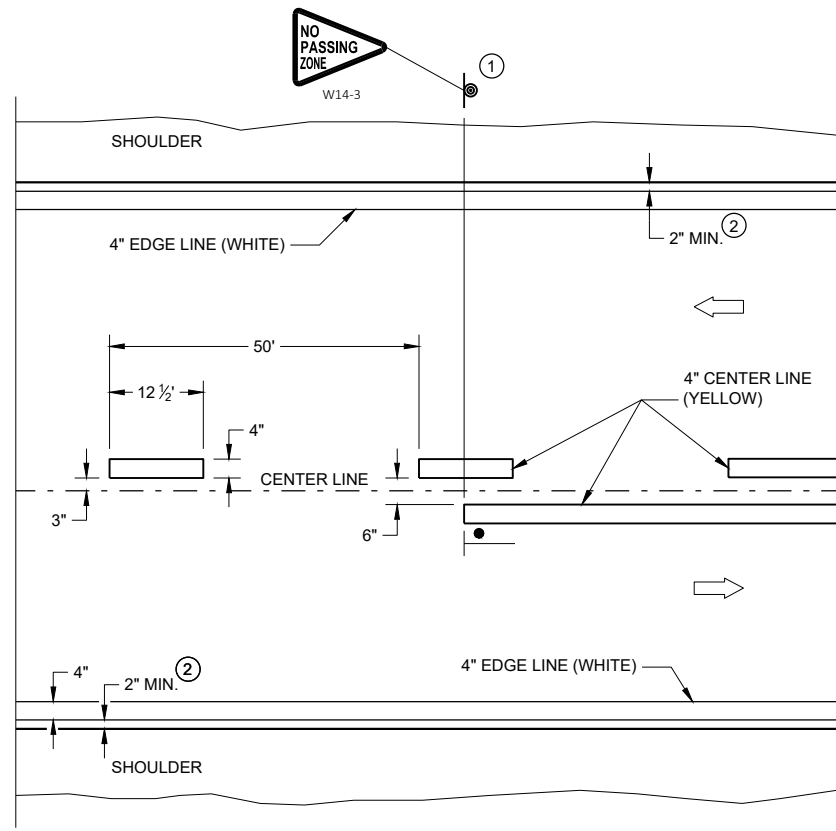
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

**TRAFFIC CONTROL, ADVANCE WARNING
SIGNS 45 MPH OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFICE**

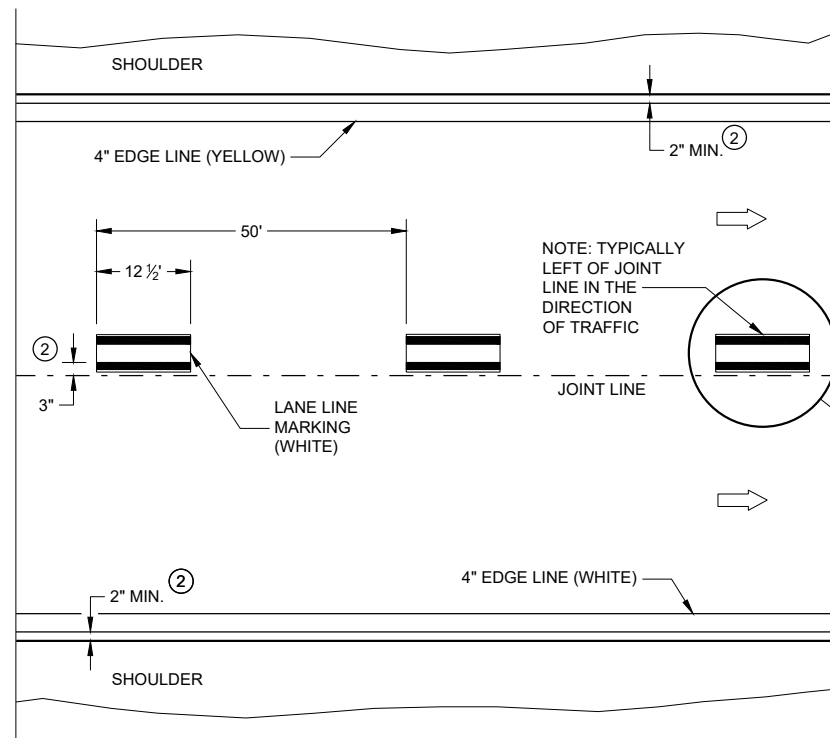
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED _____ /S/ Andrew Heidtke
DATE July 2018 WORK ZONE ENGINEER

FHWA

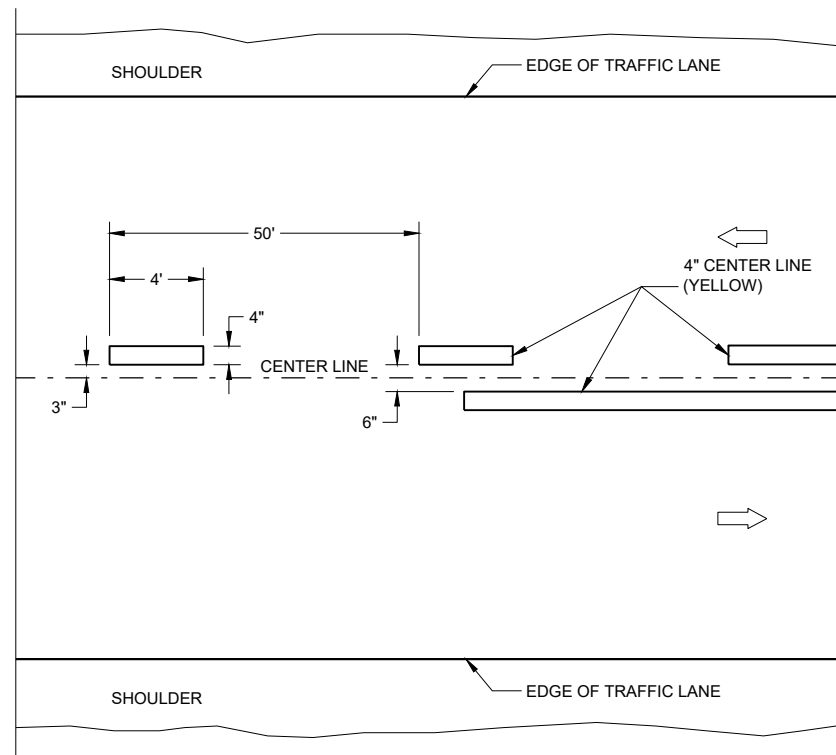


TWO WAY TRAFFIC

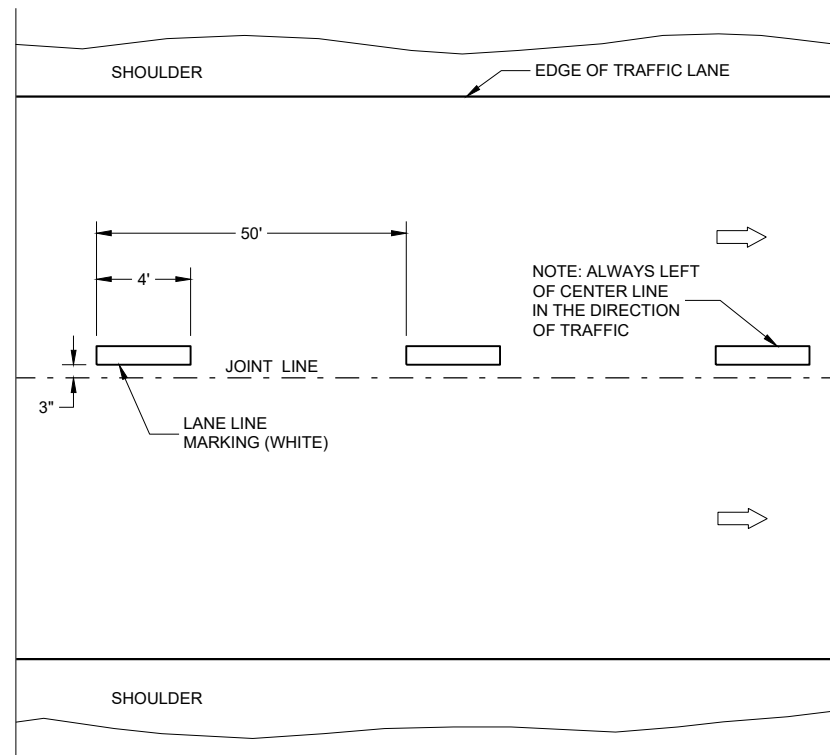


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

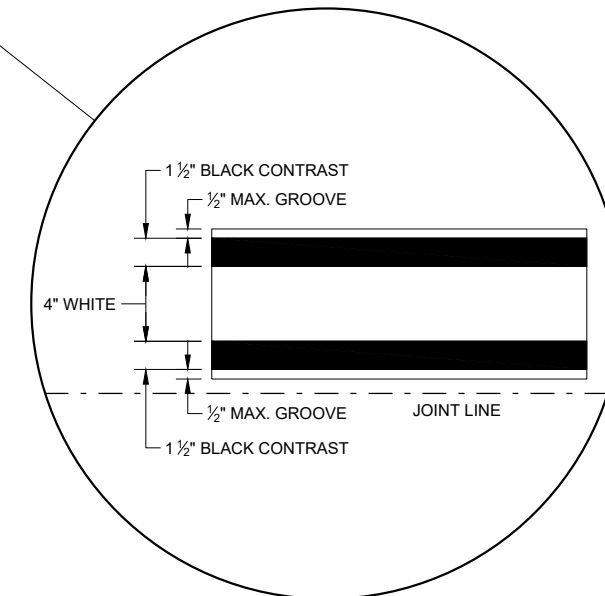
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

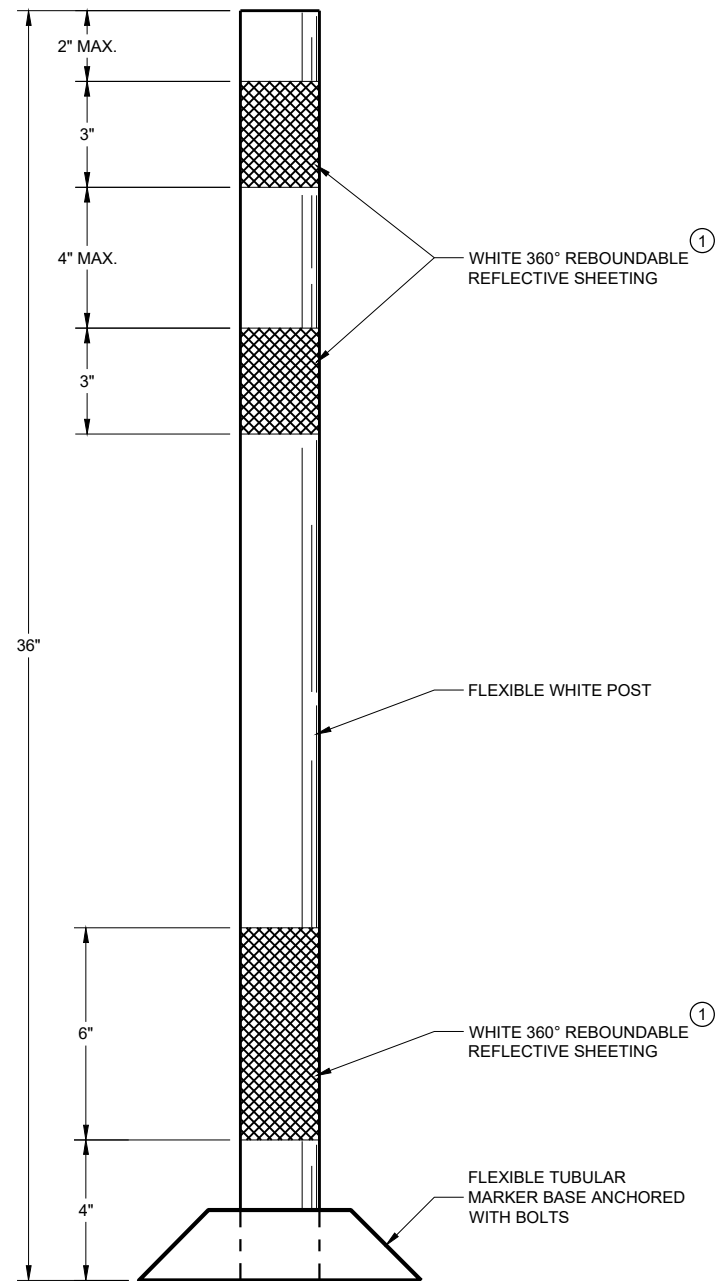
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



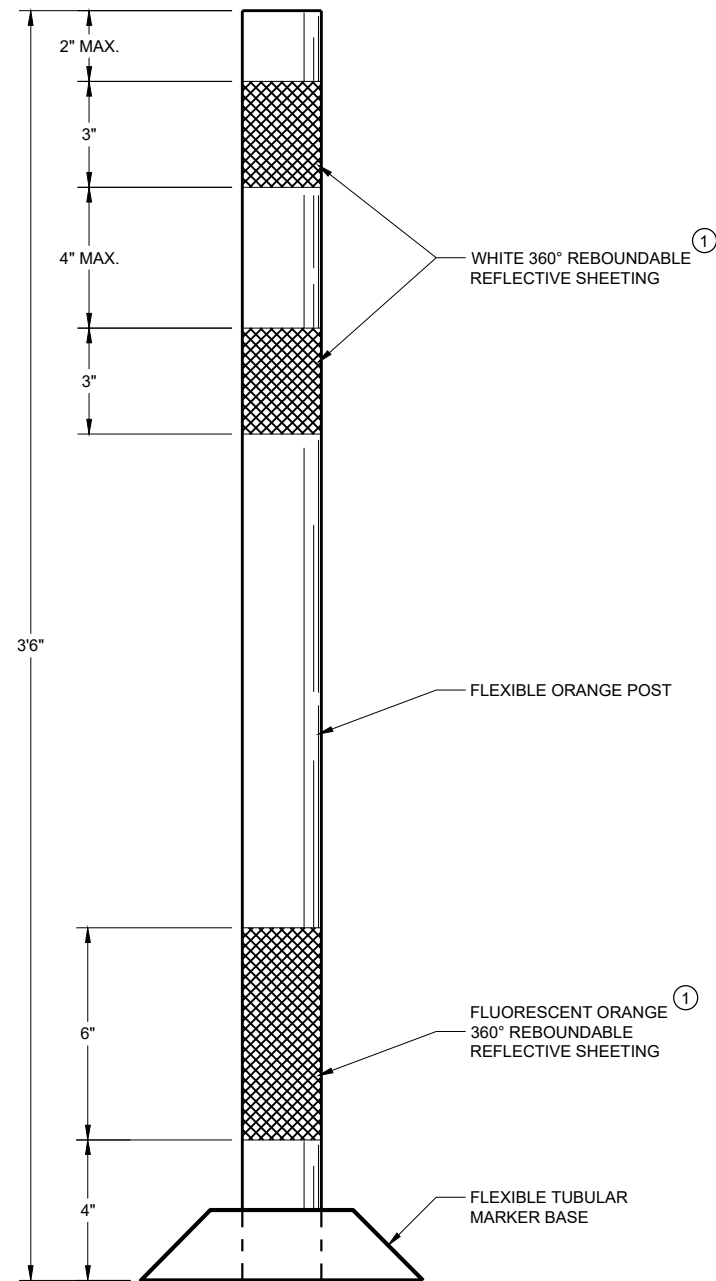
LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Matthew Rauch
DATE STATEWIDE SIGNING AND MARKING
ENGINEER



**FLEXIBLE TUBULAR
MARKER POST
PERMANENT CROSSOVER**



**FLEXIBLE TUBULAR
MARKER POST
WORK ZONE**

GENERAL NOTES

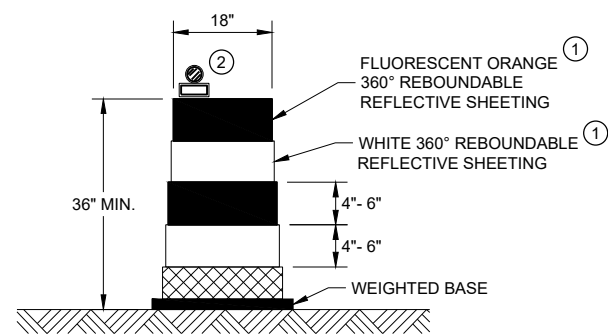
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

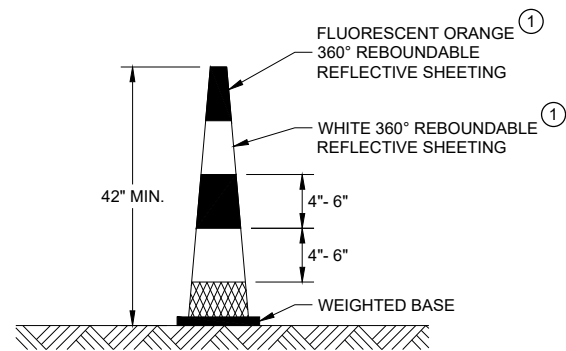
THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

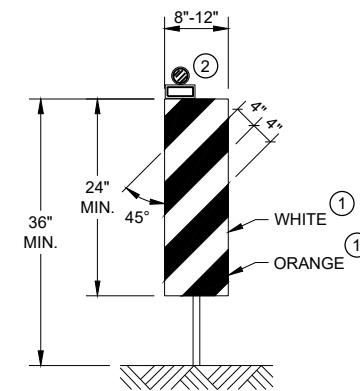


DRUM



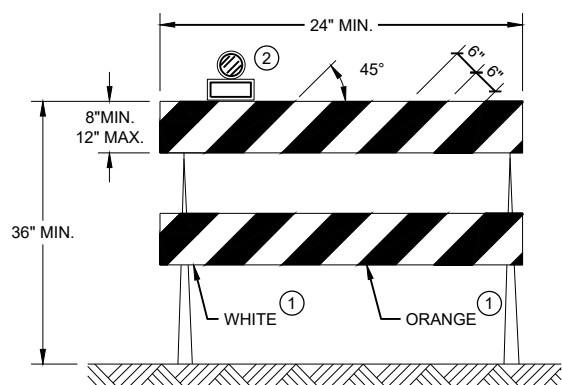
42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS



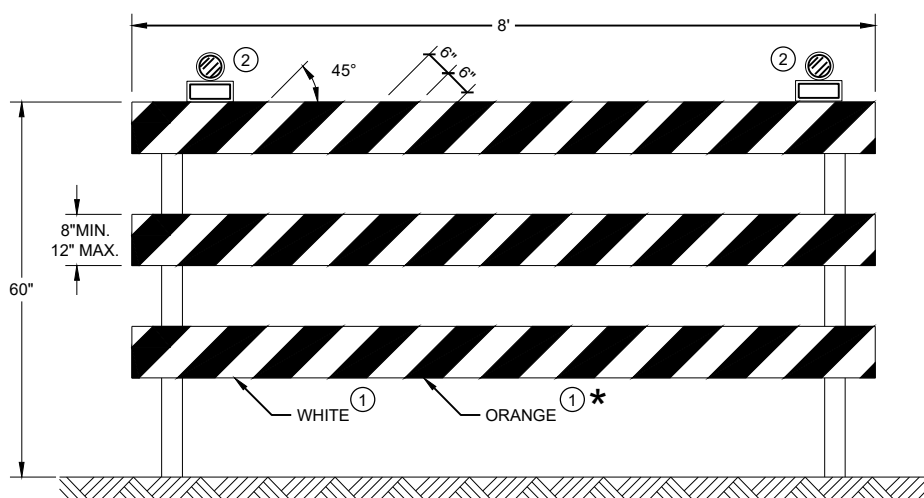
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

GENERAL NOTES





- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 November 2020 /S/ Andrew Heidtke
 DATE WORK ZONE ENGINEER
 FHWA

LEGEND

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

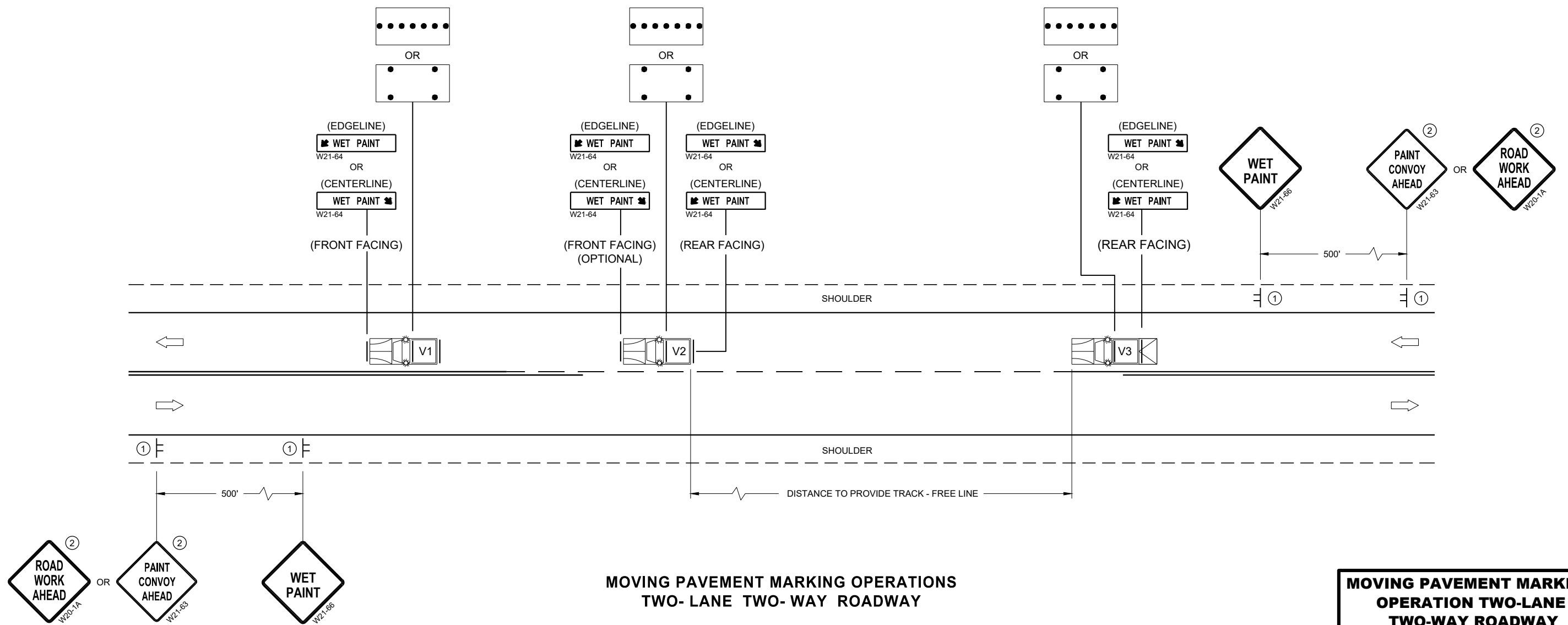
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING.

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

6

6



**MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY**

SDD 15C19 - 06a

SDD 15C19 - 06a

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

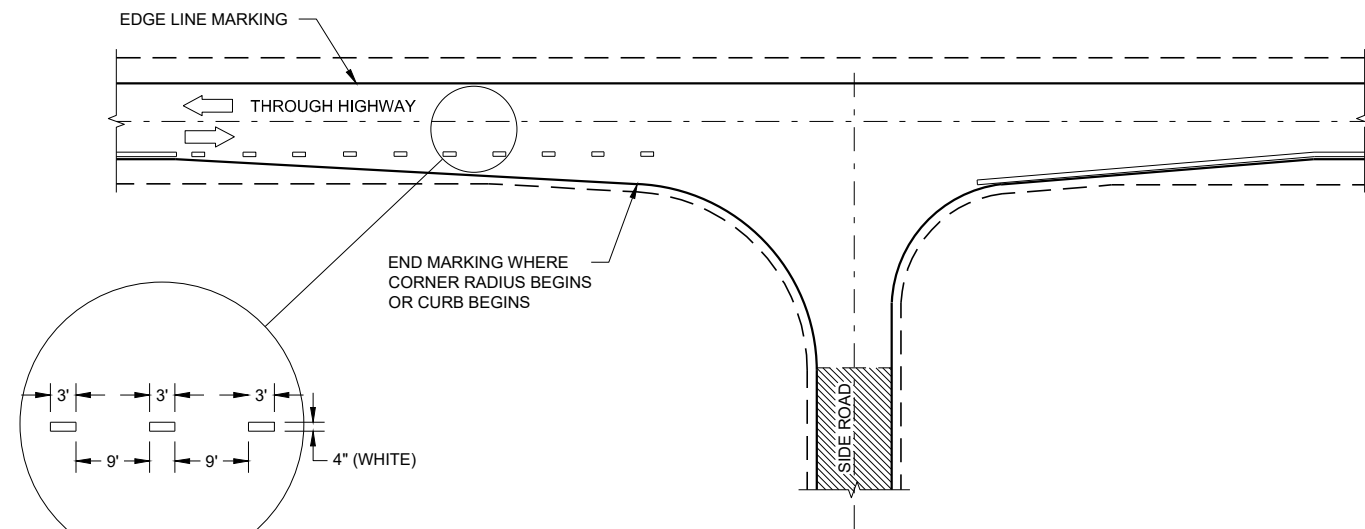
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

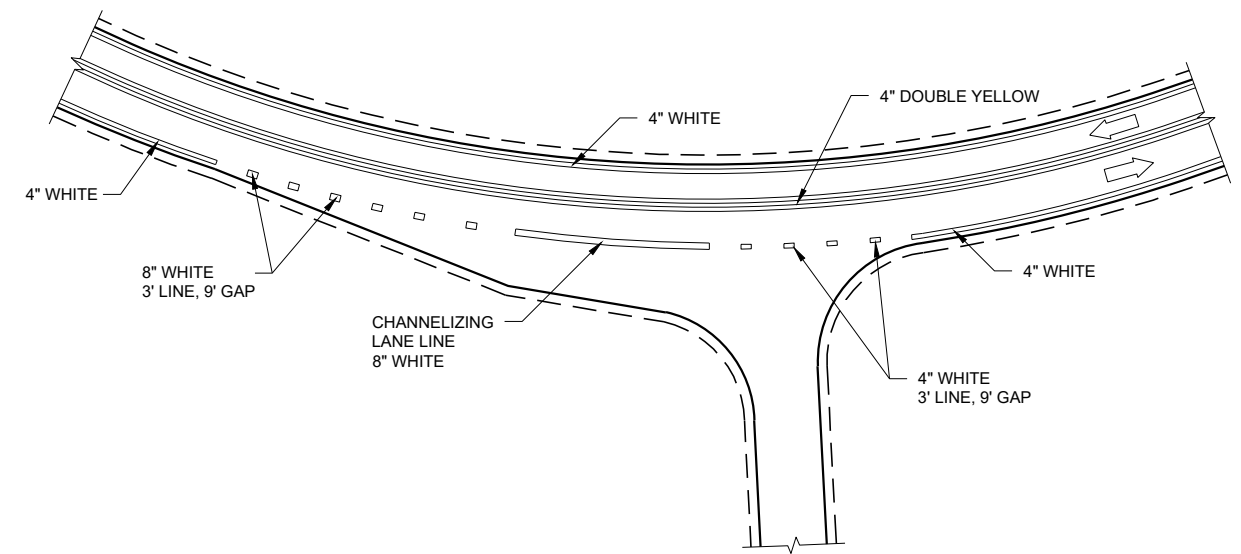
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

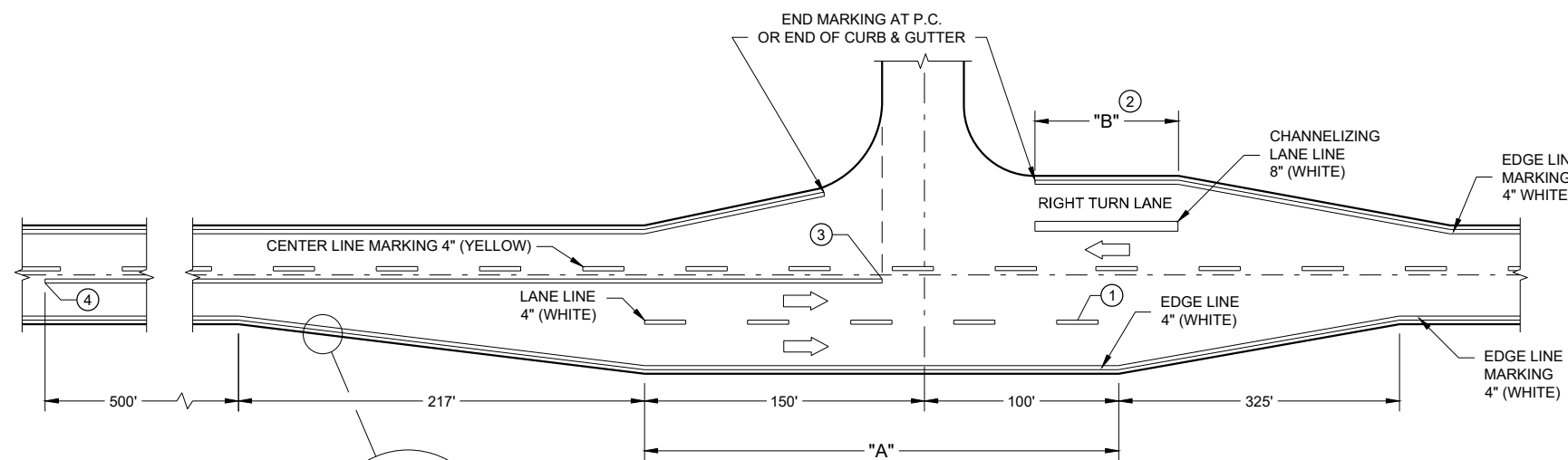
➡ DIRECTION OF TRAVEL



MINOR INTERSECTION



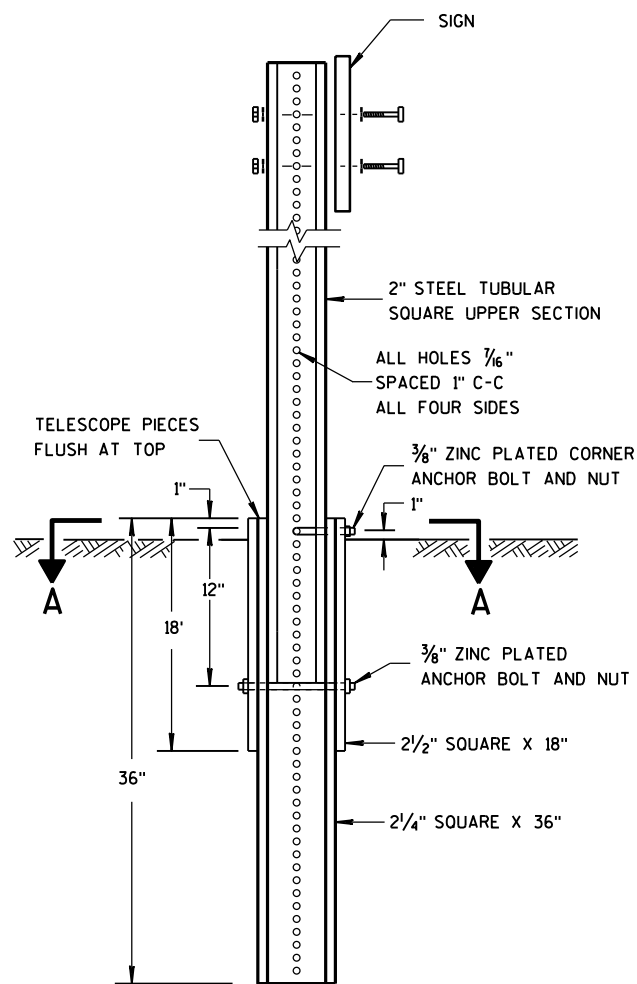
INTERSECTION ON OUTSIDE OF CURVE



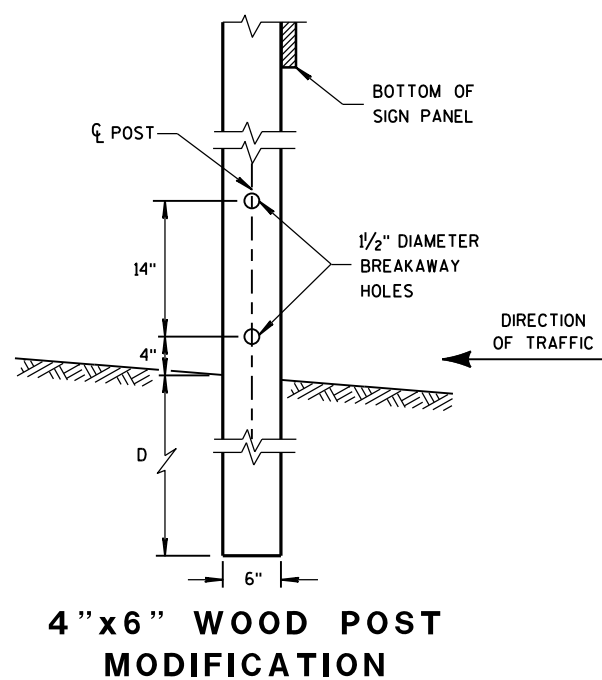
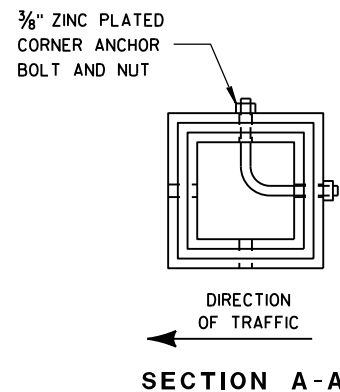
**MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)**

**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



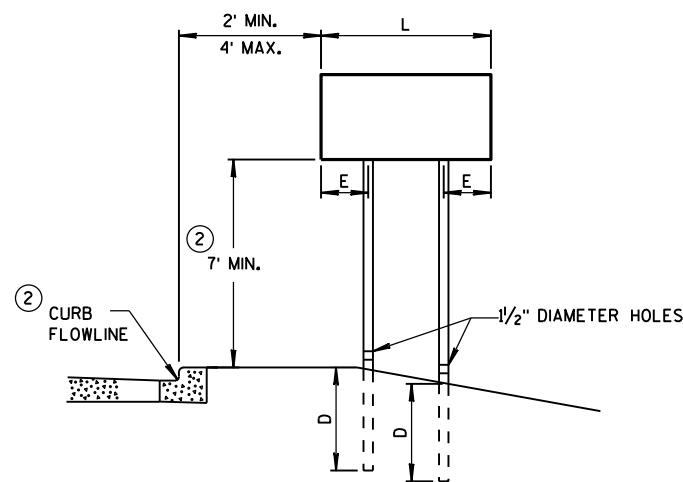
DETAIL OF TUBULAR STEEL SIGN POST



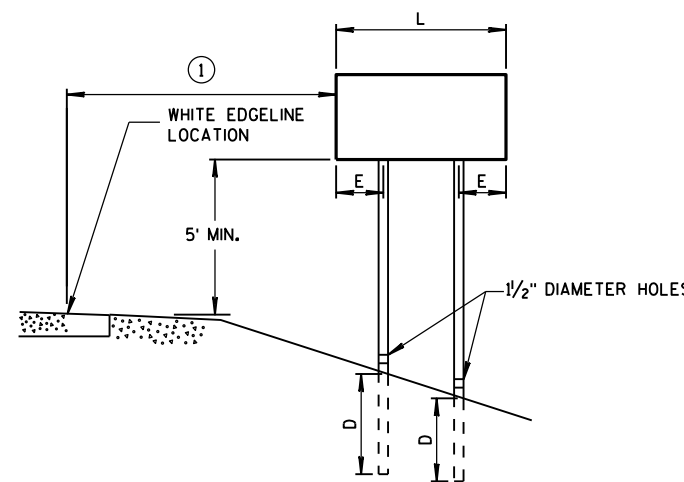
4" X 6" WOOD POST MODIFICATION

GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA



RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).
 SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

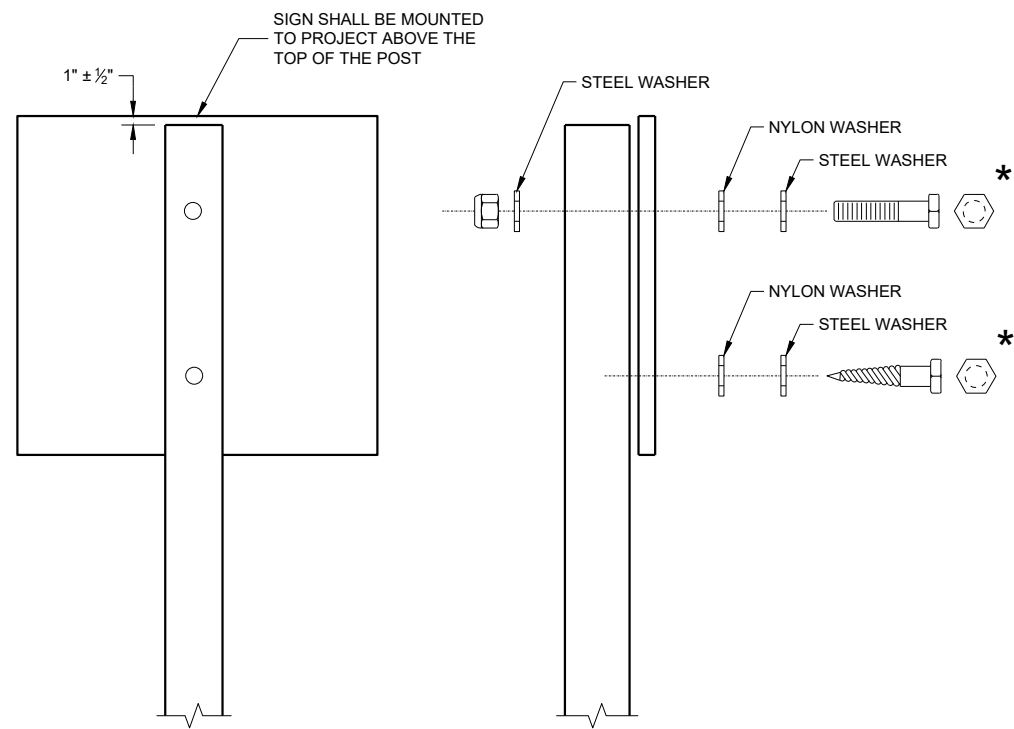
4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE ③

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
 LAG SCREWS - 3/8" x 3"
 MACHINE BOLTS - 5/16" x 6 1/2" OR 7" LENGTH W/NUTS

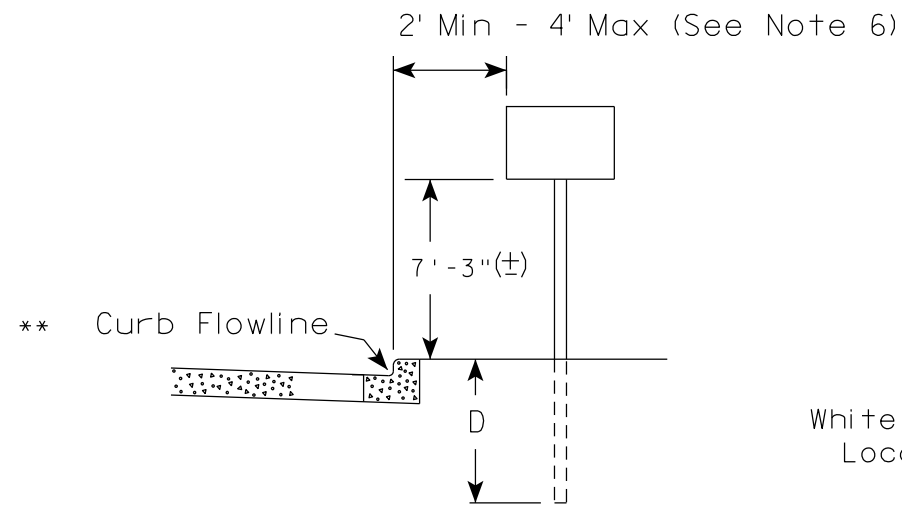
SQUARE STEEL POST (2" x 2")
 MACHINE BOLTS - 3/8" x 3 1/4" LENGTH W/NUTS
 RIVETS - 3/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM
 BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH,
 GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
 1 1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 1 1/4" O.D. x 3/8" I.D. x 0.080 NYLON

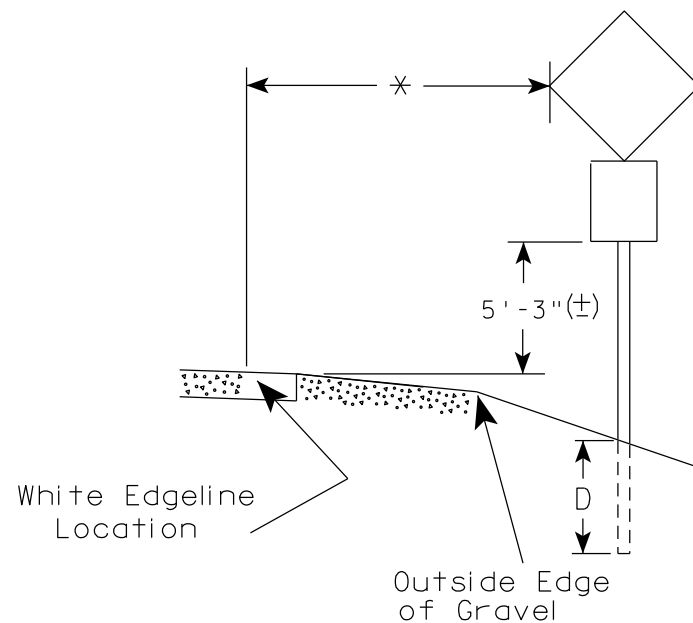
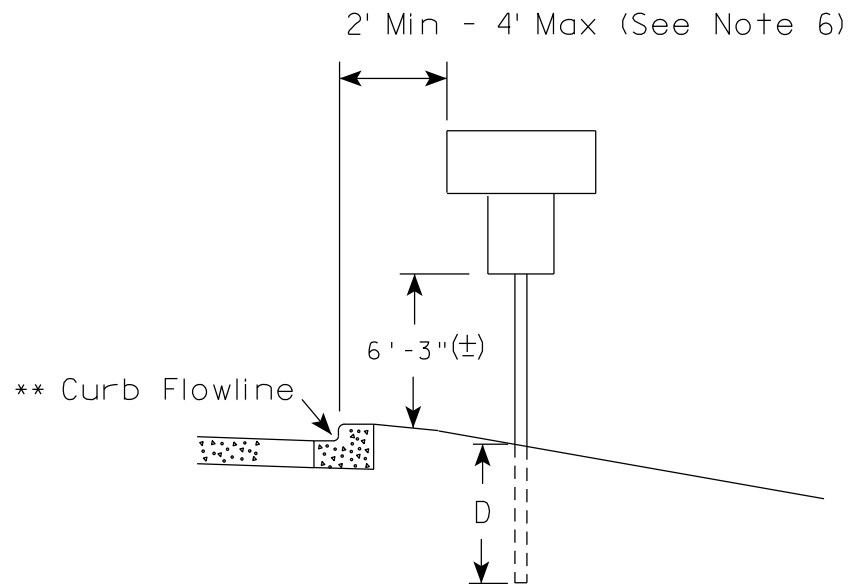
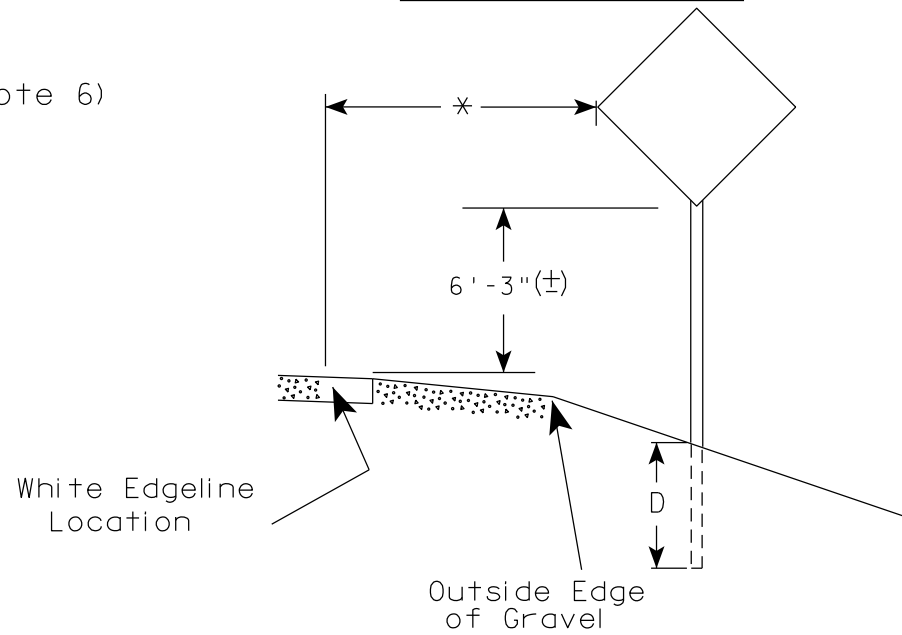
* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

* * The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

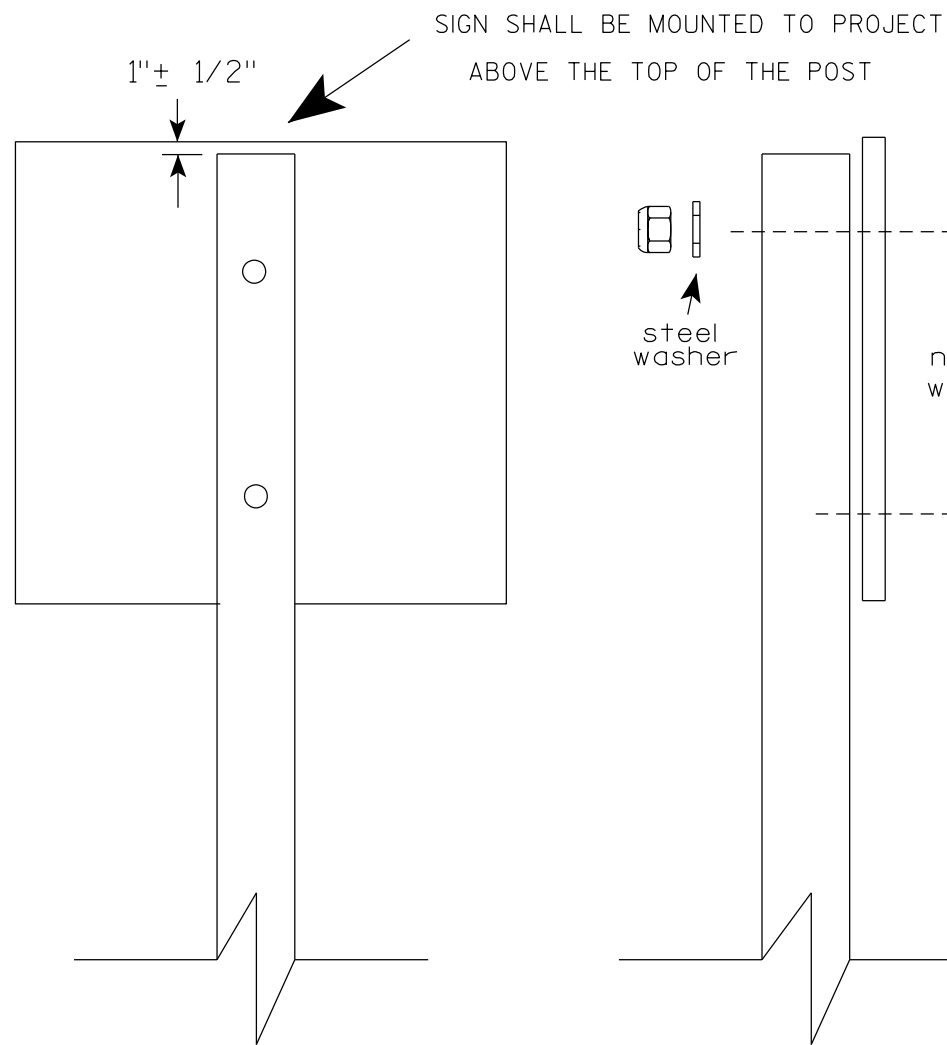
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

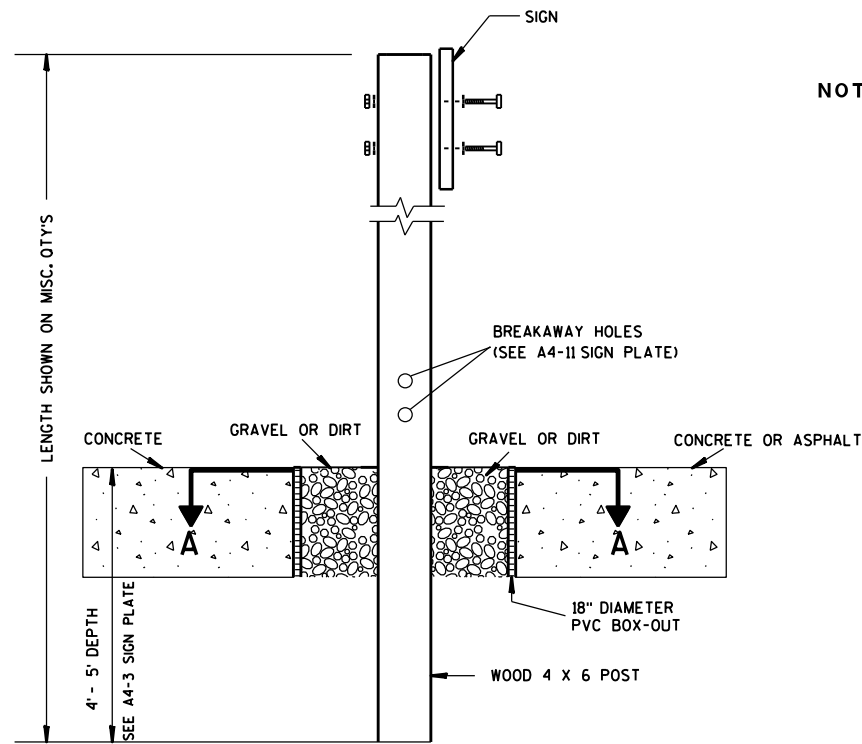
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
For State Traffic Engineer

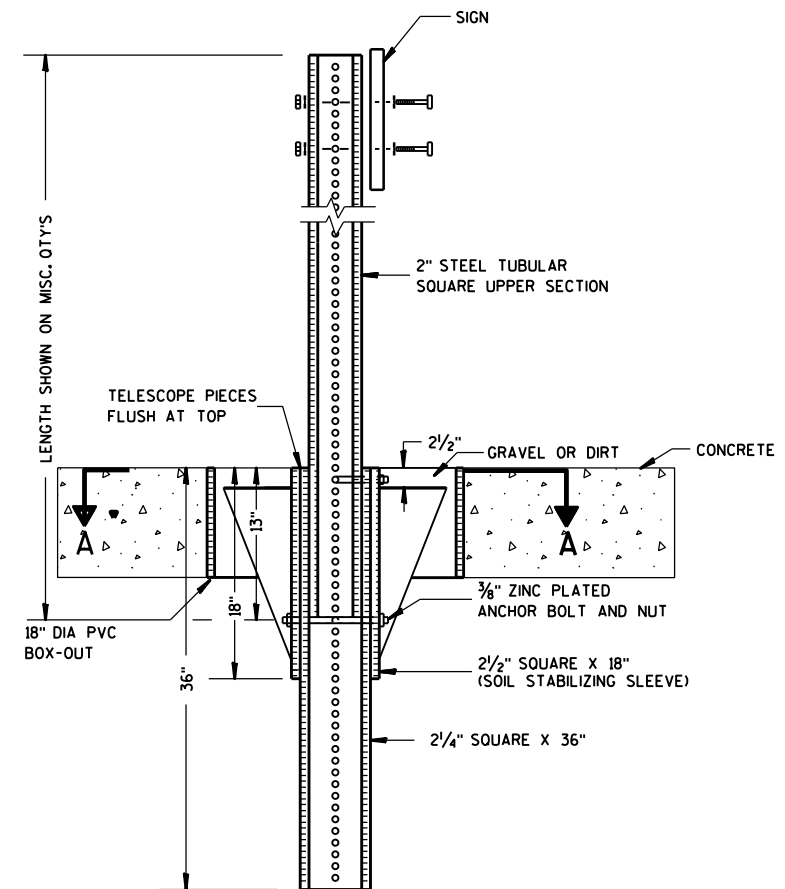
DATE 4/1/2020 PLATE NO. A4-8.9



ELEVATION VIEW

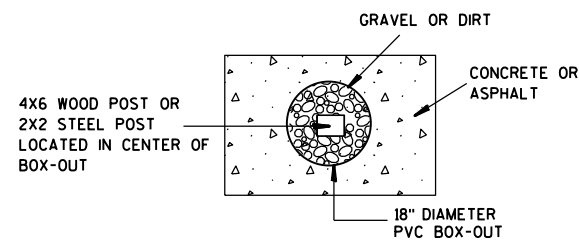
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- NOTES:**
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



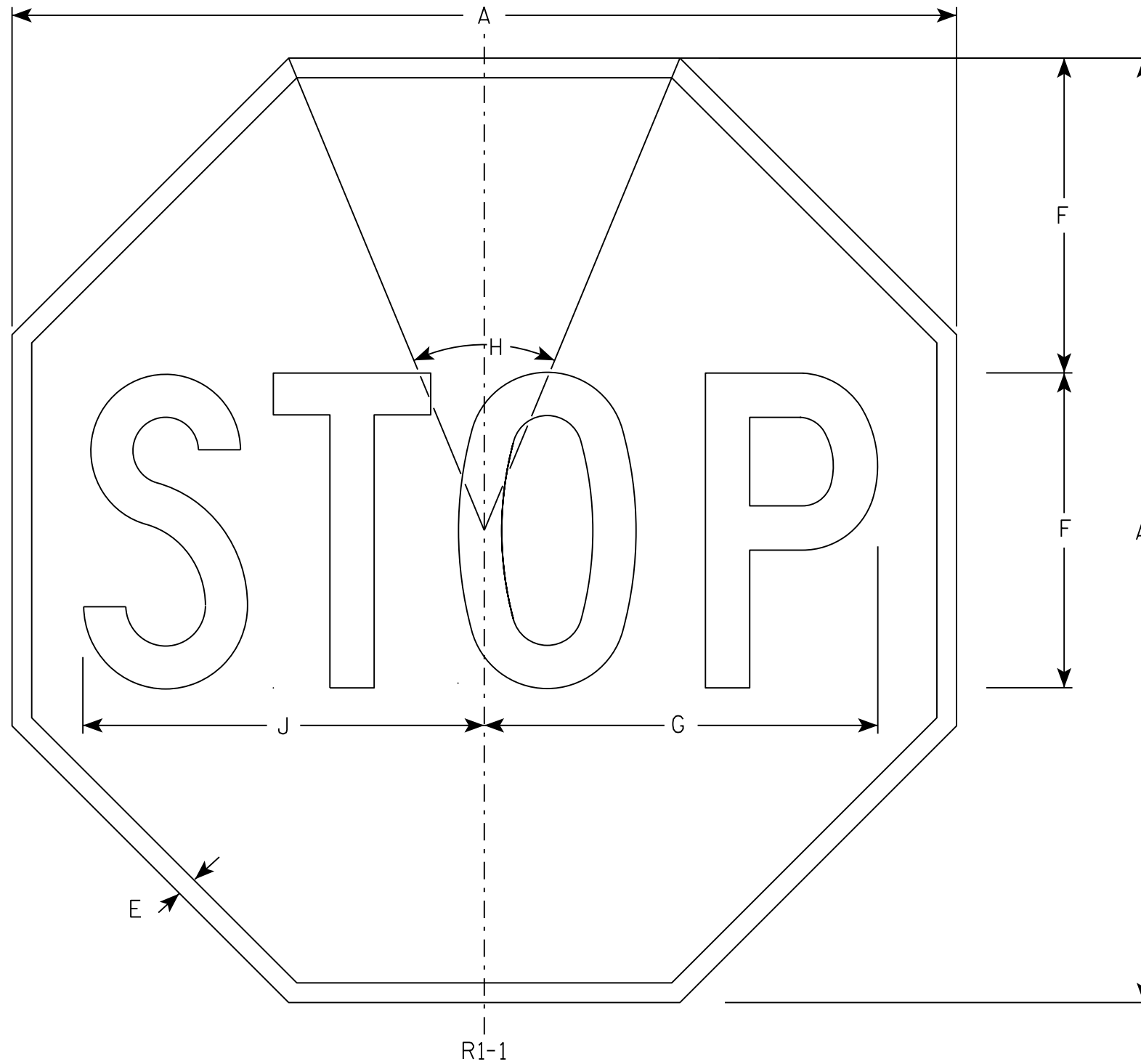
PLAN VIEW

FOR NEW CONCRETE/ ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small>	
<small>DATE 1/27/14</small>	<small>PLATE NO. A4-3B.1</small>

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
3. Message Series - C



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ **E**

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

Division 1 - ALIPROF-CTHH-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)			
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL W/SALV	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL		MASS ORDINATE
										1.00	1.25	
NOTE 1	NOTE 2	NOTE 3	NOTE 1									
10+00	1000.00	0.00	13.80	0.00	0.00	0	0	0	0	0	0	
10+50	1050.00	50.00	23.92	0.00	0.00	35	0	0	35	0	35	
11+00	1100.00	50.00	23.20	0.00	0.00	44	0	0	79	0	79	
11+50	1150.00	50.00	24.16	0.00	0.00	44	0	0	123	0	123	
12+00	1200.00	50.00	24.78	0.00	0.00	45	0	0	168	0	168	
12+50	1250.00	50.00	25.91	0.00	0.00	47	0	0	215	0	215	
13+00	1300.00	50.00	23.51	0.00	0.00	46	0	0	261	0	261	
13+50	1350.00	50.00	23.41	0.00	0.00	43	0	0	304	0	304	
14+00	1400.00	50.00	23.17	0.00	0.00	43	0	0	347	0	347	
14+50	1450.00	50.00	20.31	0.00	0.00	40	0	0	387	0	387	
14+99	1499.00	49.00	128.01	0.00	0.00	135	0	0	522	0	522	
15+00	1500.00	1.00	181.52	0.00	0.00	6	0	0	528	0	528	
15+50	1550.00	50.00	140.81	0.00	0.00	298	0	0	826	0	826	
16+00	1600.00	50.00	141.87	0.00	0.00	262	0	0	1,088	0	1,088	
16+50	1650.00	50.00	142.39	0.00	0.00	263	0	0	1,351	0	1,351	
17+00	1700.00	50.00	140.35	0.00	0.00	262	0	0	1,613	0	1,613	
17+50	1750.00	50.00	138.25	0.00	0.00	258	0	0	1,871	0	1,871	
18+00	1800.00	50.00	137.83	0.00	0.00	256	0	0	2,127	0	2,127	
18+50	1850.00	50.00	72.35	0.00	1.20	195	0	1	2,322	1	2,321	
19+00	1900.00	50.00	0.00	0.00	73.58	67	0	69	2,389	88	2,302	
19+19.703	1919.70	19.70	0.00	0.00	33.13	0	0	39	2,389	136	2,253	
19+30.723	1930.72	11.02	0.00	0.00	36.39	0	0	14	2,389	154	2,235	
19+50	1950.00	19.28	0.00	0.00	108.23	0	0	52	2,389	219	2,170	
20+00	2000.00	50.00	0.00	0.00	51.18	0	0	148	2,389	404	1,985	
20+08.638	2008.64	8.64	0.00	0.00	56.13	0	0	17	2,389	425	1,964	
						2,389		340		425		

Division 1 - ALIPROF-CTHH-1

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL		MASS ORDNATE	
					FILL	FILL					1.00	1.25		NOTE 8
									NOTE 1	NOTE 2	NOTE 3	NOTE 1		
20+08.638	2008.64	0.00	0.00	0.00	23.93	47.89	0	0	0	0	0	0	0	0
20+10	2010.00	1.36	0.00	0.00	23.95	48.00	0	0	2	0	3	0	3	-3
20+11.53	2011.53	1.53	0.00	0.00	23.92	47.65	0	0	3	0	6	0	6	-6
20+12.5	2012.50	0.97	0.00	0.00	23.87	46.50	0	0	2	0	9	0	9	-9
20+14.421	2014.42	1.92	0.00	0.00	23.75	43.10	0	0	3	0	13	0	13	-13
20+15	2015.00	0.58	0.00	0.00	23.89	41.01	0	0	1	0	14	0	14	-14
20+17.5	2017.50	2.50	0.00	0.00	24.56	42.80	0	0	4	0	19	0	19	-19
20+17.862	2017.86	0.36	0.00	0.00	24.67	42.98	0	0	1	0	20	0	20	-20
20+20	2020.00	2.14	0.00	0.00	25.34	43.48	0	0	3	0	24	0	24	-24
20+22.5	2022.50	2.50	0.00	0.00	26.23	44.05	0	0	4	0	29	0	29	-29
20+25	2025.00	2.50	0.00	0.00	27.19	44.40	0	0	4	0	34	0	34	-34
20+27.091	2027.09	2.09	0.00	0.00	28.13	45.30	0	0	3	0	38	0	38	-38
20+27.101	2027.10	0.01	0.00	0.00	28.13	45.32	0	0	0	0	38	0	38	-38
20+27.5	2027.50	0.40	0.00	0.00	28.31	47.20	0	0	1	0	39	0	39	-39
20+30	2030.00	2.50	0.00	0.00	29.46	48.28	0	0	4	0	44	0	44	-44
20+32.5	2032.50	2.50	0.00	0.00	30.65	50.20	0	0	5	0	50	0	50	-50
20+33.199	2033.20	0.70	0.00	0.00	31.00	52.80	0	0	1	0	51	0	51	-51
20+34.665	2034.67	1.47	0.00	0.00	31.74	54.37	0	0	3	0	55	0	55	-55
20+35	2035.00	0.33	0.00	0.00	31.91	54.39	0	0	1	0	56	0	56	-56
20+37.5	2037.50	2.50	0.00	0.00	33.23	56.02	0	0	5	0	63	0	63	-63
20+40	2040.00	2.50	0.00	0.00	34.61	57.73	0	0	5	0	69	0	69	-69
20+42.5	2042.50	2.50	0.00	0.00	36.06	59.46	0	0	5	0	75	0	75	-75
20+45	2045.00	2.50	0.00	0.00	37.57	60.38	0	0	6	0	83	0	83	-83
20+47.5	2047.50	2.50	0.00	0.00	39.14	62.04	0	0	6	0	90	0	90	-90
20+50	2050.00	2.50	0.00	0.00	40.79	63.80	0	0	6	0	98	0	98	-98
20+52.5	2052.50	2.50	0.00	0.00	42.52	65.70	0	0	6	0	105	0	105	-105
20+54.804	2054.80	2.30	0.00	0.00	44.54	67.24	0	0	6	0	113	0	113	-113
20+55	2055.00	0.20	0.00	0.00	44.22	68.44	0	0	0	0	113	0	113	-113
20+57.5	2057.50	2.50	0.00	0.00	41.59	68.40	0	0	6	0	120	0	120	-120
20+57.695	2057.70	0.20	0.00	0.00	36.94	68.45	0	0	0	0	120	0	120	-120
20+57.705	2057.70	0.01	0.00	0.00	36.94	68.45	0	0	0	0	120	0	120	-120
							0		96		120			

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STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
20+60	2060.00	0.00	0.00	0.00	41.17	0	0	0	0	0	0
20+62.5	2062.50	2.50	0.00	0.00	42.20	0	0	4	0	5	-5
20+65	2065.00	2.50	0.00	0.00	43.50	0	0	4	0	10	-10
20+67.5	2067.50	2.50	0.00	0.00	42.90	0	0	4	0	15	-15
20+70	2070.00	2.50	0.00	0.00	42.80	0	0	4	0	20	-20
20+72.5	2072.50	2.50	0.00	0.00	41.32	0	0	4	0	25	-25
20+75	2075.00	2.50	0.00	0.00	39.70	0	0	4	0	30	-30
20+77.5	2077.50	2.50	0.00	0.00	39.95	0	0	4	0	35	-35
20+80	2080.00	2.50	0.00	0.00	40.04	0	0	4	0	40	-40
20+82.5	2082.50	2.50	0.00	0.00	39.40	0	0	4	0	45	-45
20+85	2085.00	2.50	0.00	0.00	38.40	0	0	4	0	50	-50
20+87.5	2087.50	2.50	0.00	0.00	40.06	0	0	4	0	55	-55
20+90	2090.00	2.50	0.00	0.00	41.60	0	0	4	0	60	-60
20+92.5	2092.50	2.50	0.00	0.00	43.40	0	0	4	0	65	-65
20+95	2095.00	2.50	0.00	0.00	45.13	0	0	4	0	70	-70
20+97.5	2097.50	2.50	0.00	0.00	45.30	0	0	4	0	75	-75
21+00	2100.00	2.50	0.00	0.00	45.35	0	0	4	0	80	-80
21+02.5	2102.50	2.50	0.08	0.00	45.89	0	0	4	0	85	-85
21+05	2105.00	2.50	0.04	0.00	46.08	0	0	4	0	90	-90
21+07.5	2107.50	2.50	0.09	0.00	47.60	0	0	4	0	95	-95
21+10	2110.00	2.50	0.14	0.00	48.03	0	0	4	0	100	-100
21+12.5	2112.50	2.50	0.26	0.00	50.98	0	0	5	0	106	-106
21+15	2115.00	2.50	0.38	0.00	53.75	0	0	5	0	113	-113
21+16.626	2116.63	1.63	0.43	0.00	52.90	0	0	3	0	116	-116
21+16.627	2116.63	0.00	0.43	0.00	52.90	0	0	0	0	116	-116
21+17.5	2117.50	0.87	0.50	0.00	52.10	0	0	2	0	119	-119
21+20	2120.00	2.50	0.60	0.00	49.73	0	0	5	0	125	-125
21+22.5	2122.50	2.50	0.95	0.00	49.83	0	0	5	0	131	-131
21+25	2125.00	2.50	1.53	0.00	49.93	0	0	5	0	138	-138
21+27.5	2127.50	2.50	1.62	0.00	48.50	0	0	5	0	144	-144
21+30	2130.00	2.50	1.67	0.00	47.58	0	0	4	0	149	-149
21+32.5	2132.50	2.50	1.98	0.00	15.60	0	0	3	0	153	-153
21+35	2135.00	2.50	2.44	0.00	43.73	0	0	3	0	156	-156
21+37.5	2137.50	2.50	2.68	0.00	44.23	0	0	4	0	161	-161
21+40	2140.00	2.50	3.08	0.00	44.83	0	0	4	0	166	-166
21+42.5	2142.50	2.50	4.26	0.00	43.97	0	0	4	0	171	-171
21+45	2145.00	2.50	5.09	0.00	43.05	0	0	4	0	176	-176
21+47.5	2147.50	2.50	5.98	0.00	41.26	1	0	4	1	181	-180
21+50	2150.00	2.50	6.82	0.00	37.84	1	0	4	2	186	-184
21+52.5	2152.50	2.50	6.84	0.00	38.20	1	0	4	3	191	-188
21+55	2155.00	2.50	6.87	0.00	38.70	1	0	4	4	196	-192
21+57.5	2157.50	2.50	7.46	0.00	38.50	1	0	4	5	201	-196
21+60	2160.00	2.50	8.17	0.00	38.37	1	0	4	6	206	-200
21+62.5	2162.50	2.50	8.89	0.00	38.50	1	0	4	7	211	-204
21+65	2165.00	2.50	9.88	0.00	38.68	1	0	4	8	216	-208
21+67.5	2167.50	2.50	10.10	0.00	40.64	1	0	4	9	221	-212
21+70	2170.00	2.50	10.80	0.00	42.95	1	0	4	10	226	-216
21+72.5	2172.50	2.50	13.60	0.00	38.34	1	0	4	11	231	-220
21+75	2175.00	2.50	15.92	0.00	34.09	1	0	3	12	235	-223
						12	188		235		

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STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
21+75.546	2175.55	0.00	15.13	0.00	54.41	0	0	0	0	0	0
21+77.5	2177.50	1.95	16.84	0.00	51.08	1	0	4	1	5	-4
21+80	2180.00	2.50	20.04	0.00	49.18	2	0	5	3	11	-8
21+82.5	2182.50	2.50	22.50	0.00	48.10	2	0	5	5	18	-13
21+85	2185.00	2.50	25.49	0.00	47.81	2	0	4	7	23	-16
21+85.302	2185.30	0.30	25.50	0.00	47.80	0	0	1	7	24	-17
21+85.303	2185.30	0.00	25.52	0.00	47.79	0	0	0	7	24	-17
21+87.5	2187.50	2.20	28.10	0.00	44.50	2	0	4	9	29	-20
21+90	2190.00	2.50	31.68	0.00	40.77	3	0	4	12	34	-22
21+92.5	2192.50	2.50	35.10	0.00	42.10	3	0	4	15	39	-24
21+95	2195.00	2.50	39.48	0.00	43.58	3	0	4	18	44	-26
21+96.29	2196.29	1.29	40.20	0.00	43.46	2	0	2	20	46	-26
21+97.5	2197.50	1.21	40.30	0.00	43.30	2	0	2	22	49	-27
21+98.061	2198.06	0.56	40.50	0.00	42.10	1	0	1	23	50	-27
22+00	2200.00	1.94	45.30	0.00	40.47	3	0	3	26	54	-28
22+02.5	2202.50	2.50	48.80	0.00	39.50	4	0	4	30	59	-29
22+05	2205.00	2.50	52.47	0.00	38.65	5	0	4	35	64	-29
22+07.5	2207.50	2.50	54.64	0.00	35.40	5	0	3	40	68	-28
22+10	2210.00	2.50	56.75	0.00	33.16	5	0	3	45	71	-26
22+10.839	2210.84	0.84	56.76	0.00	33.20	2	0	1	47	73	-26
22+12.5	2212.50	1.66	60.06	0.00	33.60	4	0	2	51	75	-24
22+15	2215.00	2.50	63.46	0.00	33.75	6	0	3	57	79	-22
22+16.885	2216.89	1.89	64.00	0.00	33.40	4	0	2	61	81	-20
22+17.5	2217.50	0.61	65.46	0.00	33.10	1	0	1	62	83	-21
22+20	2220.00	2.50	68.38	0.00	32.65	6	0	3	68	86	-18
22+22.5	2222.50	2.50	70.25	0.00	34.00	6	0	3	74	90	-16
22+25	2225.00	2.50	73.83	0.00	35.05	7	0	3	81	94	-13
22+27.5	2227.50	2.50	74.23	0.00	34.80	7	0	3	88	98	-10
22+29.76	2229.76	2.26	75.84	0.00	33.20	6	0	3	94	101	-7
22+30	2230.00	0.24	75.86	0.00	32.84	1	0	0	95	101	-6
22+32.5	2232.50	2.50	75.56	0.00	31.10	7	0	3	102	105	-3
22+35	2235.00	2.50	75.35	0.00	30.77	7	0	3	109	109	0
22+37.5	2237.50	2.50	75.02	0.00	29.90	7	0	3	116	113	4
22+40	2240.00	2.50	74.70	0.00	29.12	7	0	3	123	116	7
22+42.5	2242.50	2.50	76.50	0.00	27.98	7	0	3	130	120	10
22+45	2245.00	2.50	78.18	0.00	26.94	7	0	3	137	124	13
22+47.5	2247.50	2.50	78.02	0.00	25.87	7	0	2	144	126	18
22+48.724	2248.72	1.22	77.82	0.00	24.95	4	0	1	148	128	21
						148			102	128	

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STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL W/SALV	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT NOTE 1	EXPANDED FILL	MASS ORDNATE NOTE 8
										1.00	
22+48.724	2248.72	0.00	71.98	0.00	25.76	0	0	0	0	0	0
22+50	2250.00	1.28	72.92	0.00	25.93	3	0	1	3	1	2
23+00	2300.00	50.00	68.66	0.00	14.54	131	0	37	134	48	87
23+50	2350.00	50.00	40.43	0.00	10.90	101	0	24	235	78	158
24+00	2400.00	50.00	29.58	0.00	4.83	65	0	15	300	96	204
24+50	2450.00	50.00	18.30	0.00	10.15	44	0	14	344	114	230
25+00	2500.00	50.00	12.93	0.00	4.19	29	0	13	373	130	243
25+50	2550.00	50.00	28.34	0.00	3.29	38	0	7	411	139	272
26+00	2600.00	50.00	29.05	0.00	2.48	53	0	5	464	145	319
26+50	2650.00	50.00	40.46	0.00	0.53	64	0	3	528	149	379
27+00	2700.00	50.00	48.76	0.00	0.00	83	0	0	611	149	462
27+50	2750.00	50.00	47.81	0.00	0.00	89	0	0	700	149	551
28+00	2800.00	50.00	46.05	0.00	0.26	87	0	0	787	149	638
28+50	2850.00	50.00	35.90	0.00	0.00	76	0	0	863	149	714
29+00	2900.00	50.00	30.62	0.00	6.00	62	0	6	925	156	769
29+50	2950.00	50.00	28.97	0.00	1.04	55	0	7	980	165	815
30+00	3000.00	50.00	28.14	0.00	0.00	53	0	1	1,033	166	867
30+49.99	3049.99	49.99	40.10	0.00	0.00	63	0	0	1,096	166	930
30+50	3050.00	0.01	18.58	0.00	0.00	0	0	0	1,096	166	930
31+00	3100.00	50.00	21.92	0.00	0.00	37	0	0	1,133	166	967
31+50	3150.00	50.00	23.92	0.00	0.00	42	0	0	1,175	166	1,009
32+00	3200.00	50.00	26.53	0.00	0.00	47	0	0	1,222	166	1,056
32+50	3250.00	50.00	27.32	0.00	0.00	50	0	0	1,272	166	1,106
33+00	3300.00	50.00	21.78	0.00	0.00	45	0	0	1,317	166	1,151
33+50	3350.00	50.00	21.22	0.00	0.00	40	0	0	1,357	166	1,191
34+00	3400.00	50.00	22.21	0.00	0.00	40	0	0	1,397	166	1,231
34+50	3450.00	50.00	22.70	0.00	0.00	42	0	0	1,439	166	1,273
35+00	3500.00	50.00	24.28	0.00	0.00	44	0	0	1,483	166	1,317
35+50	3550.00	50.00	20.57	0.00	0.00	42	0	0	1,525	166	1,359
36+00	3600.00	50.00	15.53	0.00	0.00	33	0	0	1,558	166	1,392
36+50	3650.00	50.00	15.58	0.00	0.00	29	0	0	1,587	166	1,421
37+00	3700.00	50.00	17.78	0.00	0.00	31	0	0	1,618	166	1,452
37+50	3750.00	50.00	20.23	0.00	0.00	35	0	0	1,653	166	1,487
38+00	3800.00	50.00	20.86	0.00	0.00	38	0	0	1,691	166	1,525
38+50	3850.00	50.00	23.87	0.00	0.00	41	0	0	1,732	166	1,566
39+00	3900.00	50.00	24.65	0.00	0.00	45	0	0	1,777	166	1,611
39+50	3950.00	50.00	22.07	0.00	0.00	43	0	0	1,820	166	1,654
39+99.99	3999.99	49.99	15.39	0.00	0.00	35	0	0	1,855	166	1,689
40+00	4000.00	0.01	43.28	0.00	0.00	0	0	0	1,855	166	1,689
40+50	4050.00	50.00	14.69	0.00	20.27	54	0	19	1,909	190	1,719
40+98.852	4098.85	48.85	14.03	0.00	0.00	26	0	18	1,935	213	1,723
41+00	4100.00	1.15	13.87	0.00	0.00	1	0	0	1,936	213	1,724
41+10.446	4110.45	10.45	16.03	0.00	0.00	6	0	0	1,942	213	1,730
41+50	4150.00	39.55	26.87	0.00	0.41	31	0	0	1,973	213	1,761
41+99	4199.00	49.00	41.13	0.00	0.00	62	0	0	2,035	213	1,823
42+00	4200.00	1.00	24.89	0.00	0.00	1	0	0	2,036	213	1,824
43+00	4300.00	100.00	18.64	0.00	0.00	81	0	0	2,117	213	1,905
44+00	4400.00	100.00	22.23	0.00	0.00	76	0	0	2,193	213	1,981
45+00	4500.00	100.00	19.35	0.00	0.00	77	0	0	2,270	213	2,058
46+00	4600.00	100.00	12.84	0.00	0.00	60	0	0	2,330	213	2,118
47+00	4700.00	100.00	10.21	0.00	0.00	43	0	0	2,373	213	2,161
48+00	4800.00	100.00	15.78	0.00	0.00	48	0	0	2,421	213	2,209
49+00	4900.00	100.00	24.59	0.00	0.00	75	0	0	2,496	213	2,284
50+00	5000.00	100.00	17.26	0.00	0.00	78	0	0	2,574	213	2,362
51+00	5100.00	100.00	25.06	0.00	0.00	78	0	0	2,652	213	2,440
52+00	5200.00	100.00	20.27	0.00	0.00	84	0	0	2,736	213	2,524
53+00	5300.00	100.00	18.96	0.00	0.00	73	0	0	2,809	213	2,597
54+00	5400.00	100.00	21.96	0.00	0.00	76	0	0	2,885	213	2,673
55+00	5500.00	100.00	26.96	0.00	0.00	91	0	0	2,976	213	2,764
56+00	5600.00	100.00	25.32	0.00	0.00	97	0	0	3,073	213	2,861
57+00	5700.00	100.00	21.21	0.00	0.00	86	0	0	3,159	213	2,947
58+00	5800.00	100.00	24.02	0.00	0.00	84	0	0	3,243	213	3,031
59+00	5900.00	100.00	18.83	0.00	0.00	79	0	0	3,322	213	3,110
60+00	6000.00	100.00	18.39	0.00	0.00	69	0	0	3,391	213	3,179
						3,391	170		213		

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Division 1 - ALIPROF-CTHH-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
61+00	6100.00	0.00	20.82	0.00	0.00	0	0	0	0	0	0
62+00	6200.00	100.00	20.10	0.00	0.00	76	0	0	76	0	76
63+00	6300.00	100.00	20.42	0.00	0.00	75	0	0	151	0	151
64+00	6400.00	100.00	24.43	0.00	0.00	83	0	0	234	0	234
65+00	6500.00	100.00	21.50	0.00	0.12	85	0	0	319	0	319
66+00	6600.00	100.00	20.94	0.00	0.00	79	0	0	398	0	398
67+00	6700.00	100.00	19.59	0.00	0.00	75	0	0	473	0	473
68+00	6800.00	100.00	20.63	0.00	0.00	74	0	0	547	0	547
69+00	6900.00	100.00	17.69	0.00	0.00	71	0	0	618	0	618
70+00	7000.00	100.00	18.35	0.00	0.00	67	0	0	685	0	685
71+00	7100.00	100.00	22.30	0.00	0.00	75	0	0	760	0	760
72+00	7200.00	100.00	24.78	0.00	0.00	87	0	0	847	0	847
73+00	7300.00	100.00	26.71	0.00	0.00	95	0	0	942	0	942
74+00	7400.00	100.00	21.07	0.00	0.00	88	0	0	1,030	0	1,030
75+00	7500.00	100.00	15.28	0.00	0.00	67	0	0	1,097	0	1,097
76+00	7600.00	100.00	18.07	0.00	0.00	62	0	0	1,159	0	1,159
77+00	7700.00	100.00	19.67	0.00	0.00	70	0	0	1,229	0	1,229
78+00	7800.00	100.00	18.68	0.00	0.00	71	0	0	1,300	0	1,300
79+00	7900.00	100.00	17.51	0.00	0.00	67	0	0	1,367	0	1,367
80+00	8000.00	100.00	16.16	0.00	0.00	62	0	0	1,429	0	1,429
81+00	8100.00	100.00	21.76	0.00	0.00	70	0	0	1,499	0	1,499
82+00	8200.00	100.00	21.51	0.00	0.00	80	0	0	1,579	0	1,579
83+00	8300.00	100.00	19.75	0.00	0.00	76	0	0	1,655	0	1,655
84+00	8400.00	100.00	24.19	0.00	0.00	81	0	0	1,736	0	1,736
85+00	8500.00	100.00	19.69	0.00	0.00	81	0	0	1,817	0	1,817
86+00	8600.00	100.00	16.25	0.00	0.00	67	0	0	1,884	0	1,884
87+00	8700.00	100.00	23.66	0.00	0.00	74	0	0	1,958	0	1,958
88+00	8800.00	100.00	24.96	0.00	0.00	90	0	0	2,048	0	2,048
89+00	8900.00	100.00	20.95	0.00	0.00	85	0	0	2,133	0	2,133
90+00	9000.00	100.00	18.06	0.00	0.00	72	0	0	2,205	0	2,205
91+00	9100.00	100.00	20.95	0.00	0.00	72	0	0	2,277	0	2,277
92+00	9200.00	100.00	19.47	0.00	0.00	75	0	0	2,352	0	2,352
93+00	9300.00	100.00	27.18	0.00	0.00	86	0	0	2,438	0	2,438
94+00	9400.00	100.00	20.78	0.00	0.00	89	0	0	2,527	0	2,527
95+00	9500.00	100.00	21.22	0.00	0.00	78	0	0	2,605	0	2,605
96+00	9600.00	100.00	22.66	0.00	0.00	81	0	0	2,686	0	2,686
97+00	9700.00	100.00	19.79	0.00	0.00	79	0	0	2,765	0	2,765
98+00	9800.00	100.00	20.95	0.00	0.00	75	0	0	2,840	0	2,840
99+00	9900.00	100.00	21.22	0.00	0.00	78	0	0	2,918	0	2,918
100+00	10000.00	100.00	20.23	0.00	0.00	77	0	0	2,995	0	2,995
101+00	10100.00	100.00	24.00	0.00	0.00	82	0	0	3,077	0	3,077
102+00	10200.00	100.00	23.97	0.00	0.00	89	0	0	3,166	0	3,166
103+00	10300.00	100.00	26.03	0.00	0.00	93	0	0	3,259	0	3,259
104+00	10400.00	100.00	23.93	0.00	0.00	93	0	0	3,352	0	3,352
105+00	10500.00	100.00	18.95	0.00	0.00	79	0	0	3,431	0	3,431
106+00	10600.00	100.00	17.12	0.00	0.00	67	0	0	3,498	0	3,498
107+00	10700.00	100.00	15.72	0.00	0.00	61	0	0	3,559	0	3,559
108+00	10800.00	100.00	23.48	0.00	0.00	73	0	0	3,632	0	3,632
109+00	10900.00	100.00	17.22	0.00	0.00	75	0	0	3,707	0	3,707
110+00	11000.00	100.00	22.75	0.00	0.00	74	0	0	3,781	0	3,781
111+00	11100.00	100.00	25.44	0.00	0.00	89	0	0	3,870	0	3,870
112+00	11200.00	100.00	25.02	0.00	0.00	93	0	0	3,963	0	3,963
113+00	11300.00	100.00	19.10	0.00	0.01	82	0	0	4,045	0	4,045

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Division 1 - ALIPROF-CTHH-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
114+00	11400.00	100.00	13.27	0.00	0.00	60	0	0	4,105	0	4,105
115+00	11500.00	100.00	18.14	0.00	0.00	58	0	0	4,163	0	4,163
116+00	11600.00	100.00	18.27	0.00	0.00	67	0	0	4,230	0	4,230
117+00	11700.00	100.00	19.75	0.00	0.00	70	0	0	4,300	0	4,300
118+00	11800.00	100.00	20.07	0.00	0.00	74	0	0	4,374	0	4,374
119+00	11900.00	100.00	20.99	0.00	0.00	76	0	0	4,450	0	4,450
120+00	12000.00	100.00	18.91	0.00	0.00	74	0	0	4,524	0	4,524
121+00	12100.00	100.00	17.94	0.00	0.00	68	0	0	4,592	0	4,592
122+00	12200.00	100.00	24.67	0.00	0.00	79	0	0	4,671	0	4,671
123+00	12300.00	100.00	24.71	0.00	0.00	91	0	0	4,762	0	4,762
124+00	12400.00	100.00	19.57	0.00	0.00	82	0	0	4,844	0	4,844
125+00	12500.00	100.00	19.26	0.00	0.00	72	0	0	4,916	0	4,916
126+00	12600.00	100.00	21.03	0.00	0.00	75	0	0	4,991	0	4,991
127+00	12700.00	100.00	19.19	0.00	0.00	74	0	0	5,065	0	5,065
128+00	12800.00	100.00	19.80	0.00	0.00	72	0	0	5,137	0	5,137
129+00	12900.00	100.00	16.57	0.00	0.00	67	0	0	5,204	0	5,204
130+00	13000.00	100.00	20.86	0.00	0.00	69	0	0	5,273	0	5,273
131+00	13100.00	100.00	24.29	0.00	0.00	84	0	0	5,357	0	5,357
132+00	13200.00	100.00	28.14	0.00	0.00	97	0	0	5,454	0	5,454
133+00	13300.00	100.00	28.55	0.00	0.00	105	0	0	5,559	0	5,559
134+00	13400.00	100.00	23.84	0.00	0.00	97	0	0	5,656	0	5,656
135+00	13500.00	100.00	22.93	0.00	0.00	87	0	0	5,743	0	5,743
136+00	13600.00	100.00	23.70	0.00	0.00	86	0	0	5,829	0	5,829
137+00	13700.00	100.00	23.74	0.00	0.00	88	0	0	5,917	0	5,917
138+00	13800.00	100.00	23.19	0.00	0.00	87	0	0	6,004	0	6,004
139+00	13900.00	100.00	17.86	0.00	0.00	76	0	0	6,080	0	6,080
140+00	14000.00	100.00	16.98	0.00	0.00	65	0	0	6,145	0	6,145
141+00	14100.00	100.00	20.92	0.00	0.00	70	0	0	6,215	0	6,215
142+00	14200.00	100.00	20.91	0.00	0.01	77	0	0	6,292	0	6,292
143+00	14300.00	100.00	26.00	0.00	0.00	87	0	0	6,379	0	6,379
144+00	14400.00	100.00	22.34	0.00	0.00	90	0	0	6,469	0	6,469
145+00	14500.00	100.00	22.06	0.00	0.00	82	0	0	6,551	0	6,551
146+00	14600.00	100.00	21.35	0.00	0.00	80	0	0	6,631	0	6,631
147+00	14700.00	100.00	22.77	0.00	0.00	82	0	0	6,713	0	6,713
148+00	14800.00	100.00	20.98	0.00	0.00	81	0	0	6,794	0	6,794
149+00	14900.00	100.00	23.20	0.00	0.00	82	0	0	6,876	0	6,876
150+00	15000.00	100.00	22.75	0.00	0.00	85	0	0	6,961	0	6,961
151+00	15100.00	100.00	21.46	0.00	0.00	82	0	0	7,043	0	7,043
152+00	15200.00	100.00	18.39	0.00	0.00	74	0	0	7,117	0	7,117
153+00	15300.00	100.00	18.22	0.00	0.01	68	0	0	7,185	0	7,185
154+00	15400.00	100.00	19.01	0.00	0.00	69	0	0	7,254	0	7,254
155+00	15500.00	100.00	19.67	0.00	0.00	72	0	0	7,326	0	7,326
156+00	15600.00	100.00	22.32	0.00	0.00	78	0	0	7,404	0	7,404
157+00	15700.00	100.00	23.06	0.00	0.00	84	0	0	7,488	0	7,488
158+00	15800.00	100.00	22.60	0.00	0.00	85	0	0	7,573	0	7,573
159+00	15900.00	100.00	21.97	0.00	0.00	83	0	0	7,656	0	7,656
160+00	16000.00	100.00	19.16	0.00	0.00	76	0	0	7,732	0	7,732
161+00	16100.00	100.00	10.74	0.00	0.00	55	0	0	7,787	0	7,787
162+00	16200.00	100.00	15.05	0.00	0.38	48	0	1	7,835	1	7,834
163+00	16300.00	100.00	18.51	0.00	0.01	62	0	1	7,897	3	7,895
164+00	16400.00	100.00	18.38	0.00	0.00	68	0	0	7,965	3	7,963
165+00	16500.00	100.00	19.52	0.00	0.00	70	0	0	8,035	3	8,033

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Division 1 - ALIPROF-CTHH-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
166+00	16600.00	100.00	21.09	0.00	0.00	75	0	0	8,110	3	8,108
167+00	16700.00	100.00	24.49	0.00	0.00	84	0	0	8,194	3	8,192
168+00	16800.00	100.00	24.31	0.00	0.00	90	0	0	8,284	3	8,282
169+00	16900.00	100.00	13.08	0.00	0.00	69	0	0	8,353	3	8,351
						8,353		2		3	

Division 1 - ALIPROF-CTHH-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
169+13.602	16913.60	0.00	14.60	0.00	0.00	0	0	0	0	0	0
169+15	16915.00	1.40	14.08	0.00	0.01	1	0	0	1	0	1
169+17.5	16917.50	2.50	13.43	0.00	0.12	1	0	0	2	0	2
169+17.72	16917.72	0.22	13.36	0.00	0.15	0	0	0	2	0	2
169+20	16920.00	2.28	12.66	0.00	0.55	1	0	0	3	0	3
169+22.5	16922.50	2.50	12.14	0.00	1.21	1	0	0	4	0	4
169+23.79	16923.79	1.29	11.96	0.00	1.54	1	0	0	5	0	5
169+25	16925.00	1.21	11.80	0.00	1.79	1	0	0	6	0	6
169+26.565	16926.57	1.57	11.34	0.00	1.98	1	0	0	7	0	7
169+26.565	16926.57	0.00	11.34	0.00	1.98	0	0	0	7	0	7
169+27.5	16927.50	0.93	10.39	0.00	2.00	0	0	0	7	0	7
169+30	16930.00	2.50	6.57	0.00	2.96	1	0	0	8	0	8
169+32.5	16932.50	2.50	7.94	0.00	1.33	1	0	0	9	0	9
169+35	16935.00	2.50	8.90	0.00	1.17	1	0	0	10	0	10
169+37.5	16937.50	2.50	9.86	0.00	0.78	1	0	0	11	0	11
169+40	16940.00	2.50	11.74	0.00	0.61	1	0	0	12	0	12
169+42.5	16942.50	2.50	12.59	0.00	0.51	1	0	0	13	0	13
169+45	16945.00	2.50	13.21	0.00	0.41	1	0	0	14	0	14
169+47.5	16947.50	2.50	13.77	0.00	0.33	1	0	0	15	0	15
169+49.281	16949.28	1.78	14.13	0.00	0.29	1	0	0	16	0	16
169+50	16950.00	0.72	14.29	0.00	0.26	0	0	0	16	0	16
169+52.5	16952.50	2.50	14.36	0.00	0.20	1	0	0	17	0	17
169+55	16955.00	2.50	15.13	0.00	0.15	1	0	0	18	0	18
169+57.5	16957.50	2.50	15.80	0.00	0.11	1	0	0	19	0	19
169+60	16960.00	2.50	16.11	0.00	0.08	1	0	0	20	0	20
169+62.5	16962.50	2.50	16.37	0.00	0.06	2	0	0	22	0	22
169+65	16965.00	2.50	16.86	0.00	0.04	2	0	0	24	0	24
169+67.5	16967.50	2.50	17.07	0.00	0.03	2	0	0	26	0	26
169+70	16970.00	2.50	17.21	0.00	0.02	2	0	0	28	0	28
169+72.5	16972.50	2.50	17.37	0.00	0.02	2	0	0	30	0	30
169+75	16975.00	2.50	17.55	0.00	0.01	2	0	0	32	0	32
169+77.5	16977.50	2.50	17.53	0.00	0.01	2	0	0	34	0	34
169+80	16980.00	2.50	17.30	0.00	0.01	2	0	0	36	0	36
169+82.5	16982.50	2.50	17.06	0.00	0.01	2	0	0	38	0	38
169+85	16985.00	2.50	16.87	0.00	0.00	2	0	0	40	0	40
169+87.5	16987.50	2.50	16.56	0.00	0.00	2	0	0	42	0	42

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Division 1 - ALIPROF-CTHH-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
169+90	16990.00	2.50	16.35	0.00	0.00	2	0	0	44	0	44
169+92.5	16992.50	2.50	16.20	0.00	0.00	2	0	0	46	0	46
169+93.615	16993.61	1.11	16.09	0.00	0.00	1	0	0	47	0	47
169+95	16995.00	1.39	15.92	0.00	0.00	1	0	0	48	0	48
169+97.5	16997.50	2.50	15.77	0.00	0.00	1	0	0	49	0	49
170+00	17000.00	2.50	16.05	0.00	0.00	1	0	0	50	0	50
170+02.5	17002.50	2.50	16.25	0.00	0.00	1	0	0	51	0	51
170+05	17005.00	2.50	16.35	0.00	0.00	2	0	0	53	0	53
170+07.5	17007.50	2.50	16.42	0.00	0.00	2	0	0	55	0	55
170+10	17010.00	2.50	16.49	0.00	0.00	2	0	0	57	0	57
170+12.5	17012.50	2.50	16.54	0.00	0.00	2	0	0	59	0	59
170+15	17015.00	2.50	16.56	0.00	0.00	2	0	0	61	0	61
170+17.5	17017.50	2.50	16.58	0.00	0.00	2	0	0	63	0	63
170+20	17020.00	2.50	16.55	0.00	0.00	2	0	0	65	0	65
170+22.5	17022.50	2.50	16.47	0.00	0.00	2	0	0	67	0	67
170+25	17025.00	2.50	16.33	0.00	0.00	2	0	0	69	0	69
170+27.5	17027.50	2.50	16.15	0.00	0.00	2	0	0	71	0	71
170+30	17030.00	2.50	15.90	0.00	0.00	1	0	0	72	0	72
170+32.5	17032.50	2.50	15.60	0.00	0.00	1	0	0	73	0	73
170+35	17035.00	2.50	15.25	0.00	0.00	1	0	0	74	0	74
170+37.5	17037.50	2.50	14.87	0.00	0.00	1	0	0	75	0	75
170+40	17040.00	2.50	15.43	0.00	0.00	1	0	0	76	0	76
170+42.5	17042.50	2.50	16.07	0.00	0.00	1	0	0	77	0	77
170+43.159	17043.16	0.66	16.24	0.00	0.00	0	0	0	77	0	77
170+43.16	17043.16	0.00	16.24	0.00	0.00	0	0	0	77	0	77
171+00	17100.00	56.84	18.14	0.00	0.00	36	0	0	77	0	113
171+50	17150.00	50.00	15.29	0.00	0.00	31	0	0	77	0	144
172+50.74	17250.74	100.74	14.21	0.00	0.00	55	0	0	187	0	199
						199		0		0	

Division 1 - ALIPROF-DORE RD-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDNATE
06+03.314	603.31	0.00	30.80	5.00	0.00	0	0	0	0	0	0
06+25	625.00	21.69	31.40	5.00	0.07	25	4	0	25	0	21
06+39.593	639.59	14.59	30.70	5.00	0.24	17	3	0	42	0	35
06+50	650.00	10.41	30.70	5.00	0.46	12	2	0	54	0	45
06+75	675.00	25.00	27.30	5.00	0.05	27	5	0	81	0	67
06+75.993	675.99	0.99	28.10	5.00	0.05	1	0	0	82	0	68
07+00	700.00	24.01	31.30	5.00	0.78	26	4	0	108	0	90
07+12.393	712.39	12.39	35.10	5.00	1.40	15	2	1	123	1	102
07+25	725.00	12.61	25.60	5.00	1.49	14	2	1	137	3	113
07+30.593	730.59	5.59	24.90	5.00	0.25	5	1	0	142	3	117
07+50	750.00	19.41	37.10	5.00	0.00	22	4	0	164	3	135
07+75	775.00	25.00	38.70	5.00	16.50	35	5	8	199	13	155
08+00	800.00	25.00	41.28	5.00	0.62	37	5	8	236	23	177
08+25	825.00	25.00	30.70	5.00	11.16	33	5	5	269	29	198
08+50	850.00	25.00	11.20	1.38	35.68	19	3	22	288	56	187
08+75	875.00	25.00	0.40	0.00	24.04	5	1	28	293	91	156
08+96.824	896.82	21.82	2.34	0.00	16.64	1	0	16	294	111	137
08+97.5	897.50	0.68	2.40	0.00	16.40	0	0	0	294	111	137
09+00	900.00	2.50	4.60	0.00	13.68	0	0	1	294	113	136
09+02.5	902.50	2.50	6.50	0.00	12.60	1	0	1	295	114	135
09+05	905.00	2.50	8.00	0.00	11.65	1	0	1	296	115	135
09+07.5	907.50	2.50	7.90	0.00	11.32	1	0	1	297	116	135
09+10	910.00	2.50	8.30	0.00	10.95	1	0	1	298	118	135
09+12.5	912.50	2.50	8.90	0.00	12.20	1	0	1	299	119	134
09+15	915.00	2.50	10.50	0.00	14.00	1	0	1	300	120	134
09+17.5	917.50	2.50	10.40	0.00	13.10	1	0	1	301	121	134
09+20	920.00	2.50	10.90	0.00	12.50	1	0	1	302	123	134
09+22.5	922.50	2.50	11.40	0.00	11.90	1	0	1	303	124	133
09+25	925.00	2.50	11.30	0.00	11.40	1	0	1	304	125	133
09+27.5	927.50	2.50	11.25	0.00	11.85	1	0	1	305	126	133
09+30	930.00	2.50	11.20	0.00	12.13	1	0	1	306	128	133
09+32.5	932.50	2.50	11.40	0.00	12.75	1	0	1	307	129	132
09+35	935.00	2.50	11.70	0.00	13.20	1	0	1	308	130	132
09+37.5	937.50	2.50	11.00	0.00	13.08	1	0	1	309	131	132
09+40	940.00	2.50	10.50	0.00	12.94	1	0	1	310	133	132
09+42.5	942.50	2.50	10.10	0.00	14.60	1	0	1	311	134	131
09+45	945.00	2.50	9.60	0.00	15.70	1	0	1	312	135	131
09+47.5	947.50	2.50	9.55	0.00	14.02	1	0	1	313	136	131
09+50	950.00	2.50	9.50	0.00	11.70	1	0	1	314	138	131
09+52.5	952.50	2.50	9.20	0.00	10.76	1	0	1	315	139	130
09+55	955.00	2.50	9.00	0.00	9.80	1	0	1	316	140	130
09+57.5	957.50	2.50	9.50	0.00	11.89	1	0	1	317	141	130
09+60	960.00	2.50	9.90	0.00	13.30	1	0	1	318	143	130
09+62.5	962.50	2.50	9.70	0.00	14.60	1	0	1	319	144	129
09+65	965.00	2.50	9.50	0.00	16.08	1	0	1	320	145	129
09+67.5	967.50	2.50	10.00	0.00	18.11	1	0	2	321	148	128
09+70	970.00	2.50	10.60	0.00	20.33	1	0	2	322	150	126
09+72.5	972.50	2.50	10.50	0.00	22.34	1	0	2	323	153	125
09+75	975.00	2.50	10.40	0.00	24.31	1	0	2	324	155	123
09+77.5	977.50	2.50	10.30	0.00	23.60	1	0	2	325	158	122
09+80	980.00	2.50	10.20	0.00	21.60	1	0	2	326	160	120
09+82.5	982.50	2.50	9.40	0.00	21.52	1	0	2	327	163	119
09+85	985.00	2.50	8.70	0.00	28.40	1	0	2	328	165	117
09+87.5	987.50	2.50	8.70	0.00	30.40	1	0	3	329	169	114

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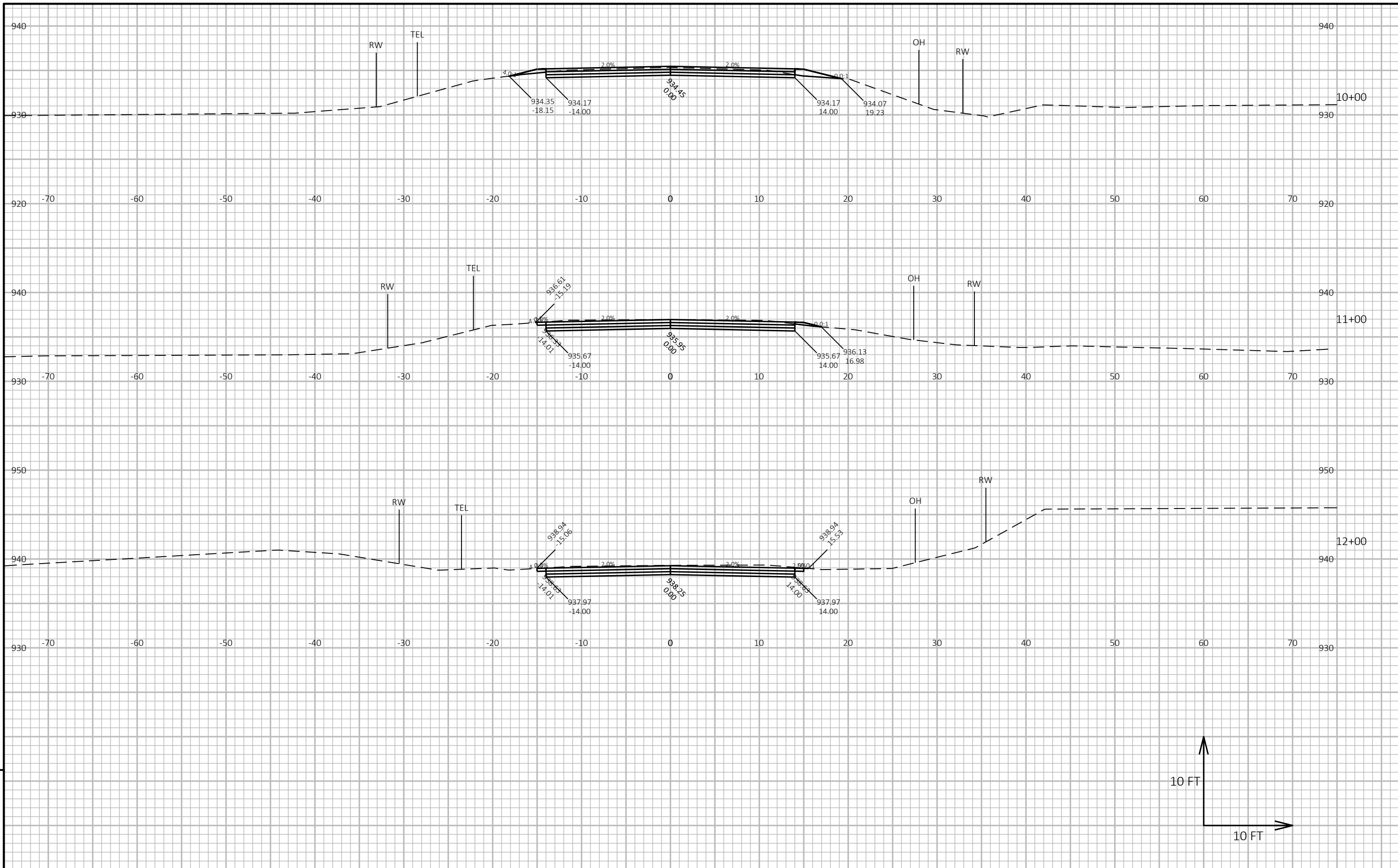
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Division 1 - ALIPROF-DORE RD-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDNATE
10+00	1000.00	2.50	0.00	0.00	49.50	0	0	4	332	190	96
10+02.5	1002.50	2.50	0.00	0.00	50.54	0	0	5	332	196	90
10+05	1005.00	2.50	0.00	0.00	51.80	0	0	5	332	203	84
10+07.5	1007.50	2.50	0.00	0.00	55.12	0	0	5	332	209	77
10+08.222	1008.22	0.72	0.00	0.00	59.00	0	0	2	332	211	75
10+10	1010.00	1.78	0.00	0.00	60.90	0	0	4	332	216	70
10+11.496	1011.50	1.50	0.00	0.00	60.70	0	0	3	332	220	66
10+11.505	1011.51	0.01	2.80	0.00	64.80	0	0	0	332	220	66
10+12.5	1012.50	0.99	2.00	0.00	69.66	0	0	2	332	223	64
10+15	1015.00	2.50	1.40	0.00	71.50	0	0	7	332	231	55
10+17.5	1017.50	2.50	0.67	0.00	71.00	0	0	7	332	240	46
10+19.75	1019.75	2.25	0.29	0.00	81.00	0	0	6	332	248	39
10+20	1020.00	0.25	0.25	0.00	81.70	0	0	1	332	249	37
10+22.5	1022.50	2.50	0.00	0.00	84.40	0	0	8	332	259	27
10+25	1025.00	2.50	0.00	0.00	88.02	0	0	8	332	269	17
10+27.5	1027.50	2.50	0.00	0.00	98.50	0	0	9	332	280	6
10+29.712	1029.71	2.21	0.00	0.00	105.64	0	0	8	332	290	-4
10+29.75	1029.75	0.04	0.00	0.00	105.64	0	0	0	332	290	-4
10+30	1030.00	0.25	0.00	0.00	105.89	0	0	1	332	291	-5
10+32.5	1032.50	2.50	0.00	0.00	107.98	0	0	10	332	304	-18
10+35	1035.00	2.50	0.00	0.00	111.23	0	0	10	332	316	-30
10+37.5	1037.50	2.50	0.00	0.00	114.50	0	0	10	332	329	-43
10+40	1040.00	2.50	0.00	0.00	117.30	0	0	11	332	343	-57
10+41.504	1041.50	1.50	0.00	0.00	125.47	0	0	7	332	351	-65
10+42.5	1042.50	1.00	0.00	0.00	131.47	0	0	5	332	358	-72
10+44.269	1044.27	1.77	0.00	0.00	136.87	0	0	9	332	369	-83
10+45	1045.00	0.73	0.00	0.00	142.65	0	0	4	332	374	-88
10+47.5	1047.50	2.50	0.00	0.00	155.67	0	0	14	332	391	-105
10+50	1050.00	2.50	0.00	0.00	168.76	0	0	15	332	410	-124
10+52.5	1052.50	2.50	0.00	0.00	174.39	0	0	16	332	430	-144
10+55	1055.00	2.50	0.00	0.00	177.68	0	0	16	332	450	-164
10+57.5	1057.50	2.50	0.00	0.00	182.06	0	0	17	332	471	-185
10+60	1060.00	2.50	0.00	0.00	186.14	0	0	17	332	493	-207
10+62.5	1062.50	2.50	0.00	0.00	190.87	0	0	17	332	514	-228
10+65	1065.00	2.50	0.00	0.00	194.27	0	0	18	332	536	-250
10+65.891	1065.89	0.89	0.00	0.00	195.04	0	0	6	332	544	-258
10+67.5	1067.50	1.61	0.00	0.00	203.84	0	0	12	332	559	-273
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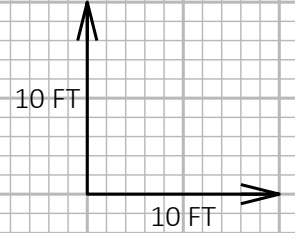
Division 1 - ALIPROF-CTHJ-1

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT W/O SALV	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT NOTE 1	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE NOTE 8
12+12.294	1212.29	0.00	46.18	0.00	0.09	0	0	0	0	0	0
12+20	1220.00	7.71	45.59	0.00	0.00	13	0	0	13	0	13
12+25	1225.00	5.00	59.59	0.00	0.00	10	0	0	23	0	23
12+30	1230.00	5.00	61.15	0.00	1.10	11	0	0	34	0	34
12+35	1235.00	5.00	60.42	0.00	1.33	11	0	0	45	0	45
12+40	1240.00	5.00	57.28	0.00	0.99	11	0	0	56	0	56
12+45	1245.00	5.00	40.50	0.00	0.34	9	0	0	65	0	65
12+50	1250.00	5.00	41.25	0.00	0.00	8	0	0	73	0	73
12+55	1255.00	5.00	35.63	0.00	0.00	7	0	0	80	0	80
12+60	1260.00	5.00	42.53	0.00	3.61	7	0	0	87	0	87
12+65	1265.00	5.00	43.23	0.00	6.07	8	0	1	95	1	94
12+70	1270.00	5.00	47.74	0.00	6.33	8	0	1	103	3	101
12+75	1275.00	5.00	32.44	0.00	11.36	7	0	2	110	5	105
12+77.5	1277.50	2.50	29.90	0.00	0.00	3	0	1	113	6	107
						113			5	6	

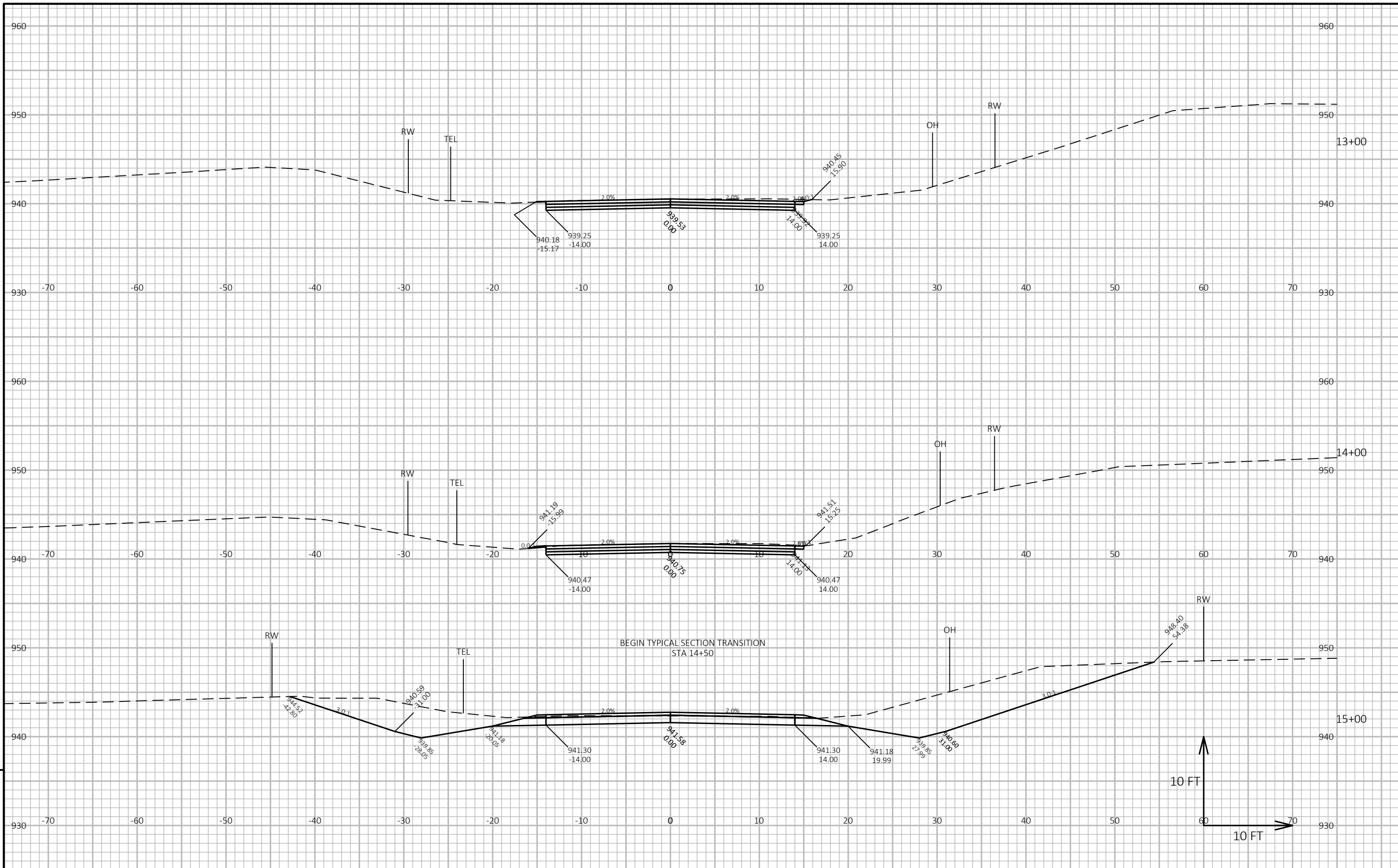


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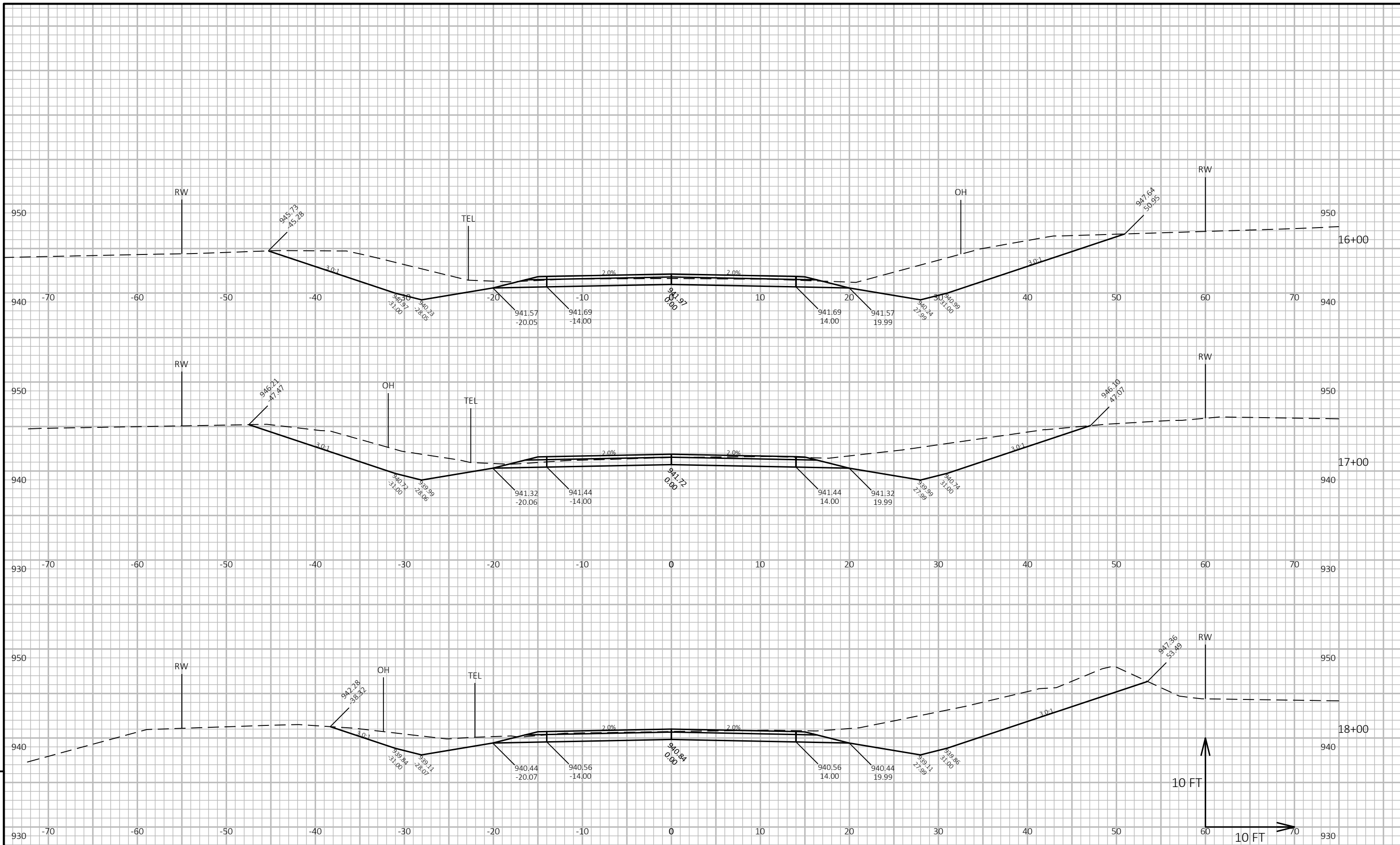
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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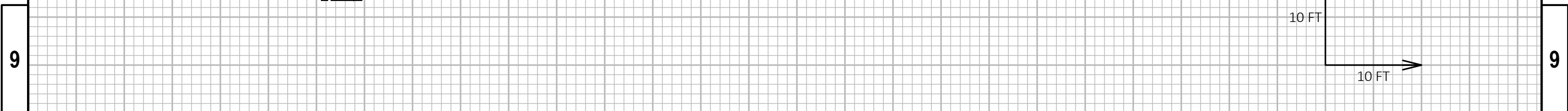
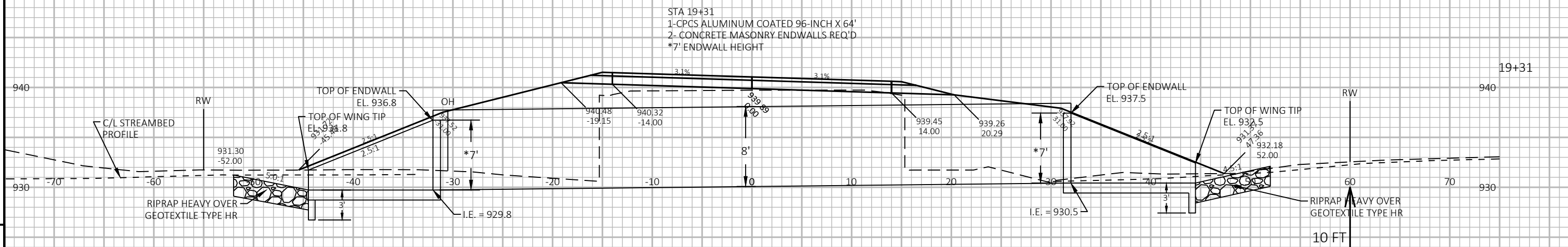
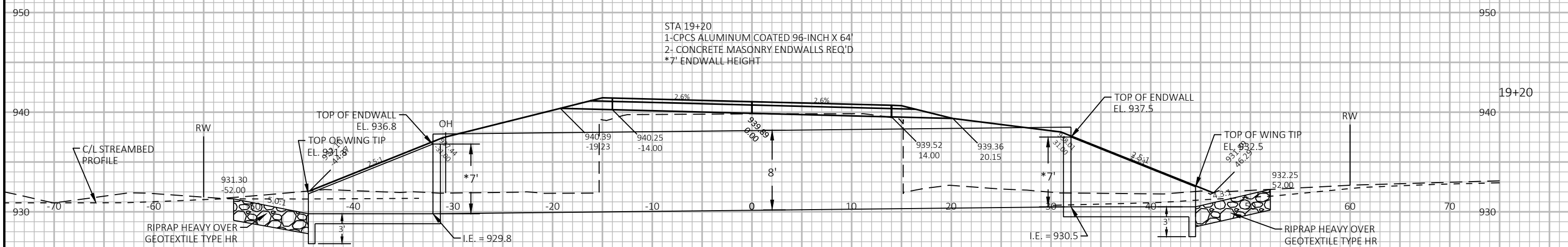
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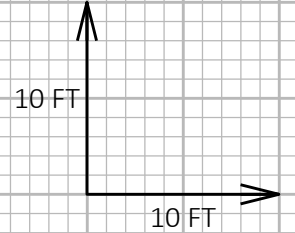
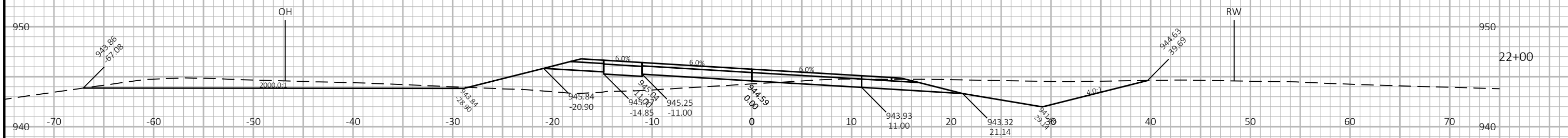
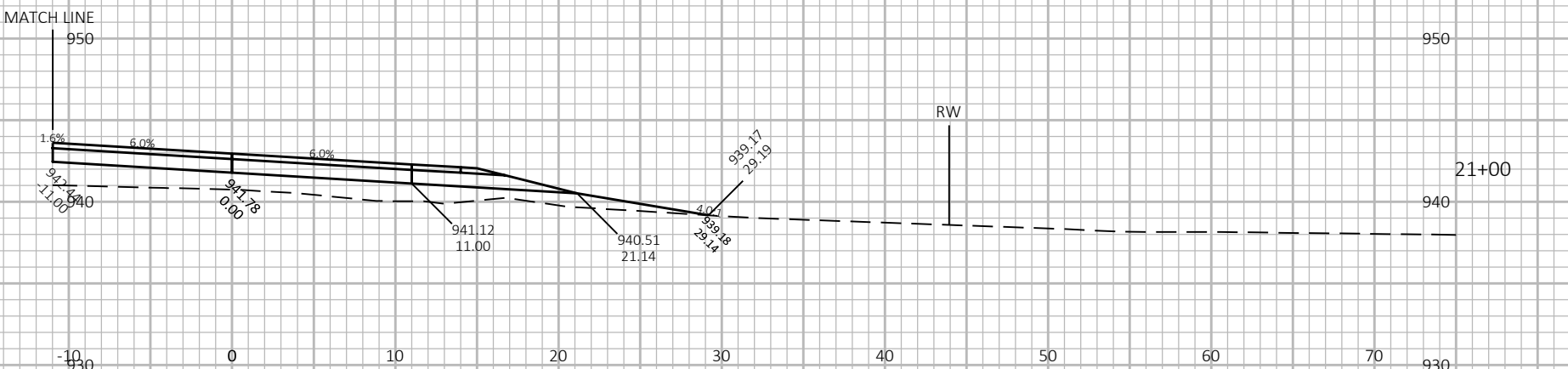
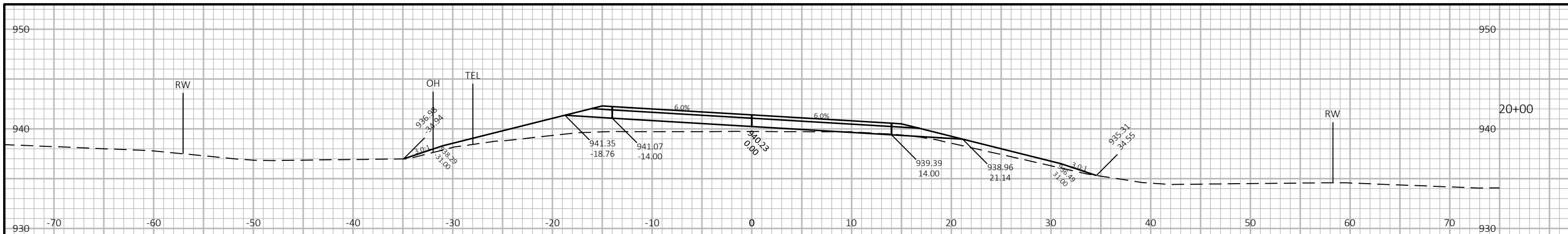
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET: 9

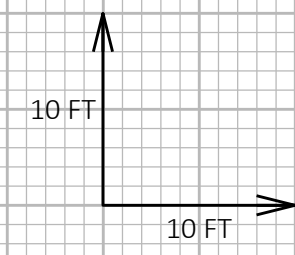
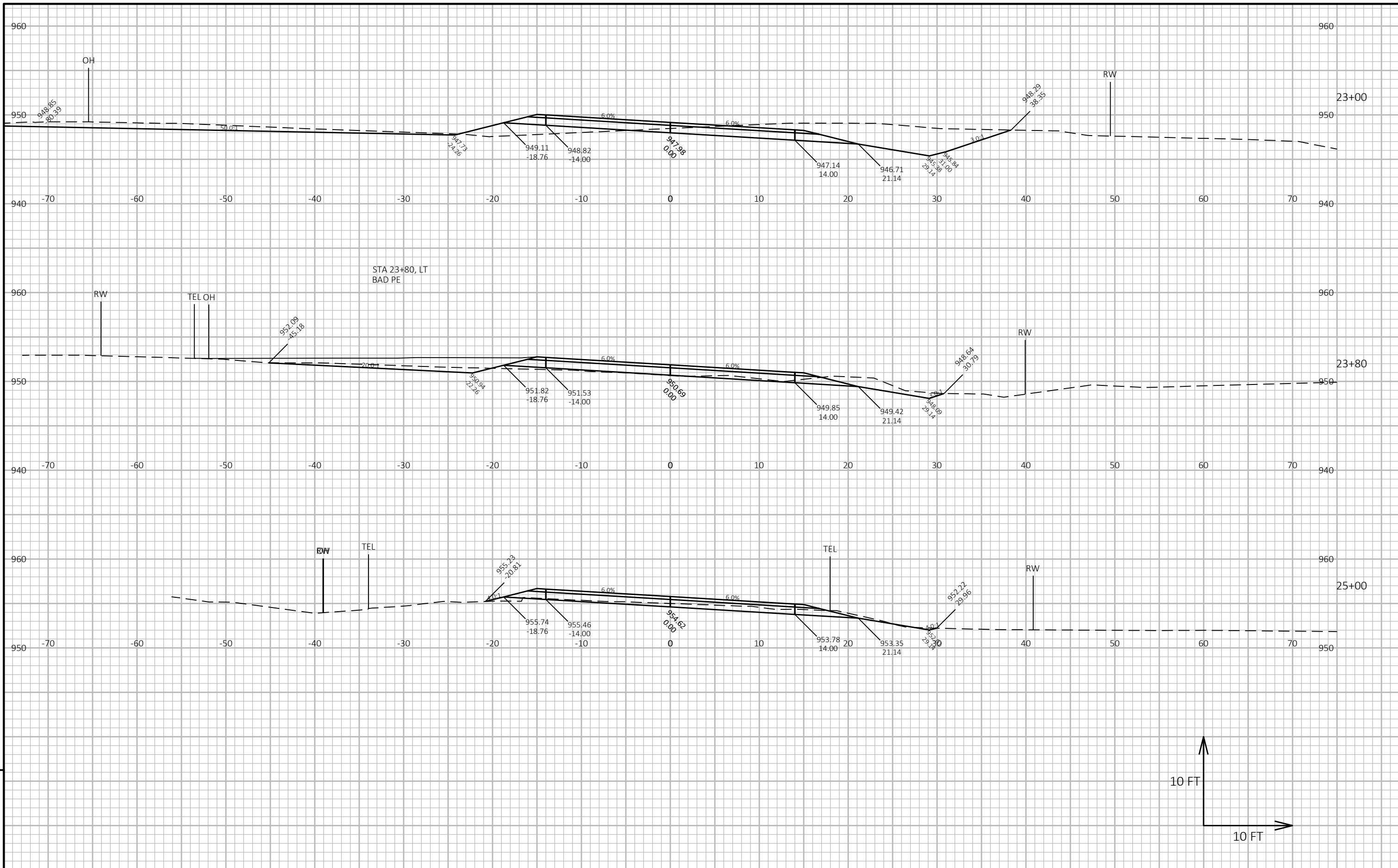


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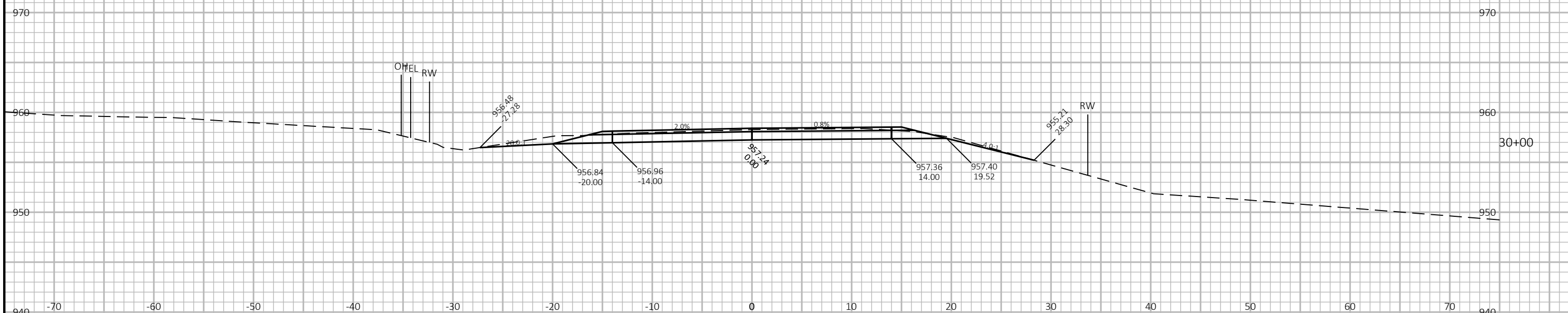
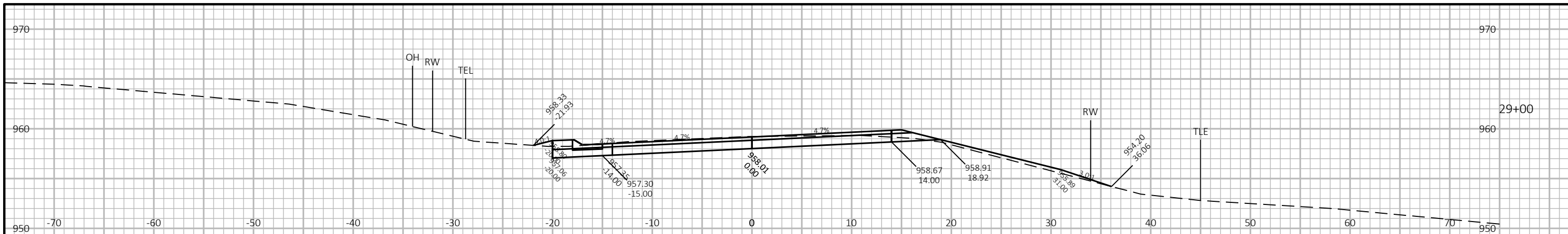
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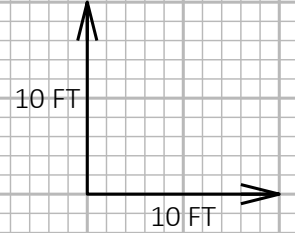
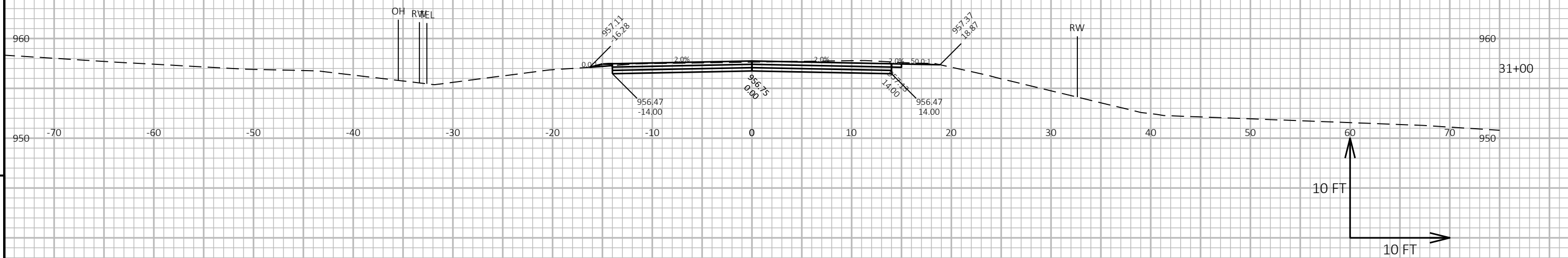
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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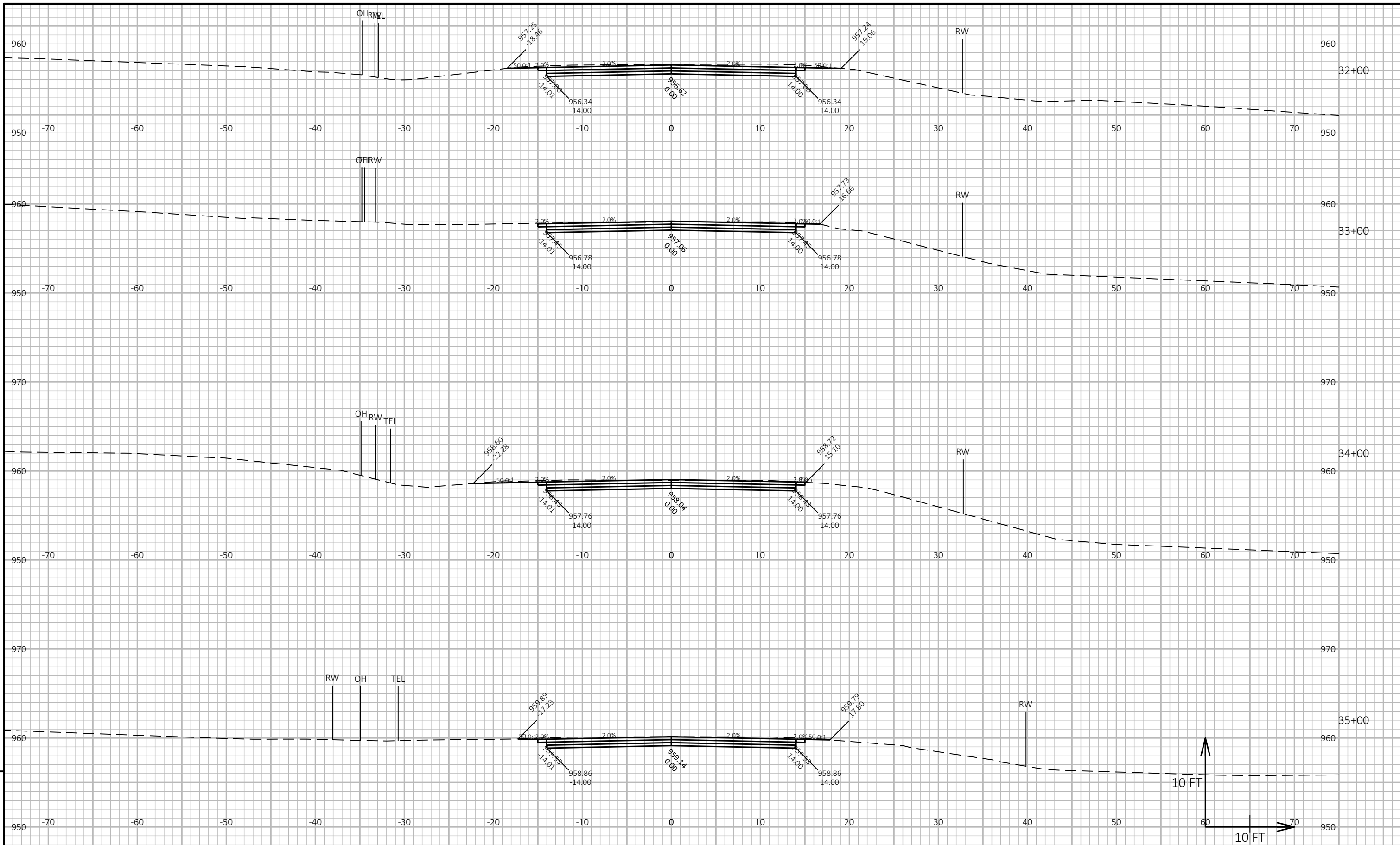
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STA 30+50



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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73

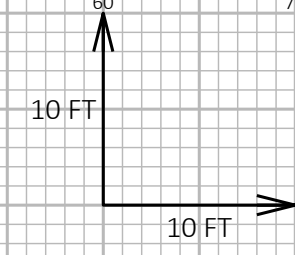
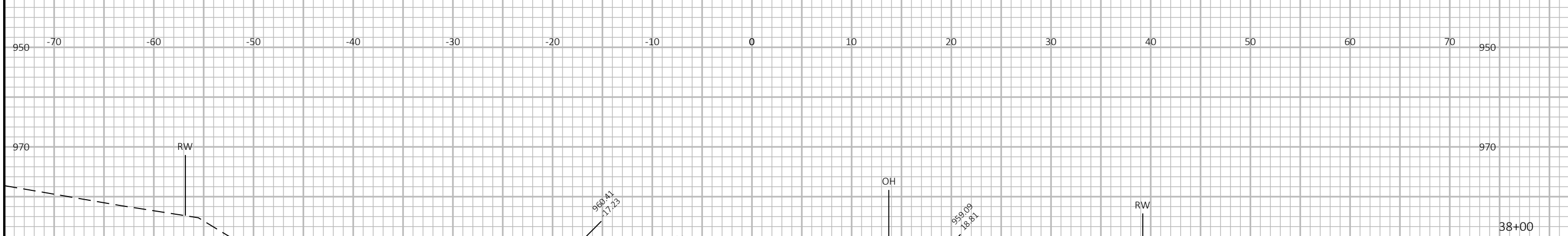
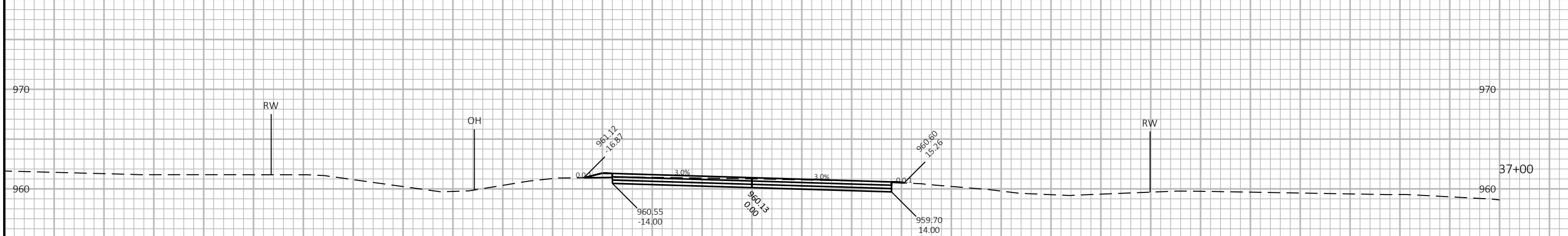
HWY: CTH HH

COUNTY: JUNEAU

CROSS SECTIONS: CTH HH

SHEET

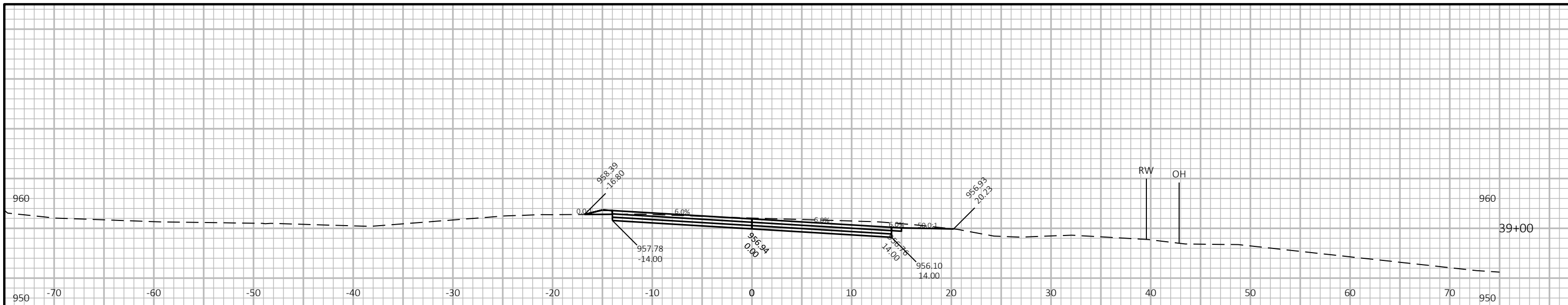
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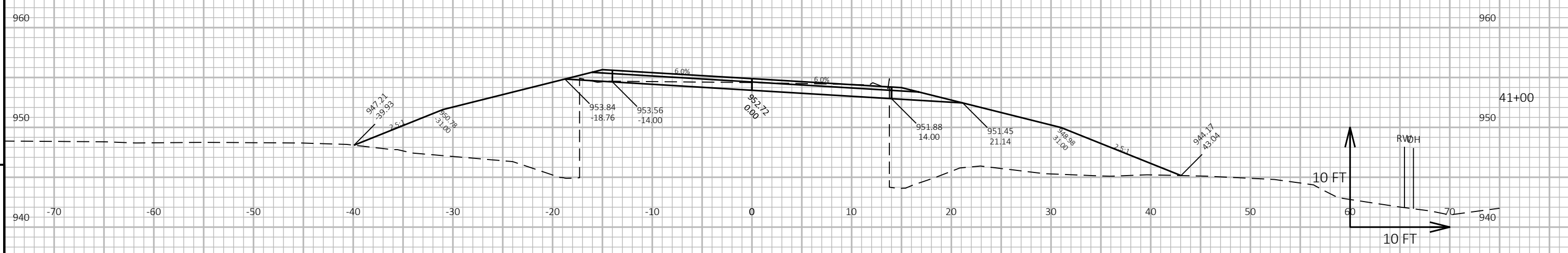
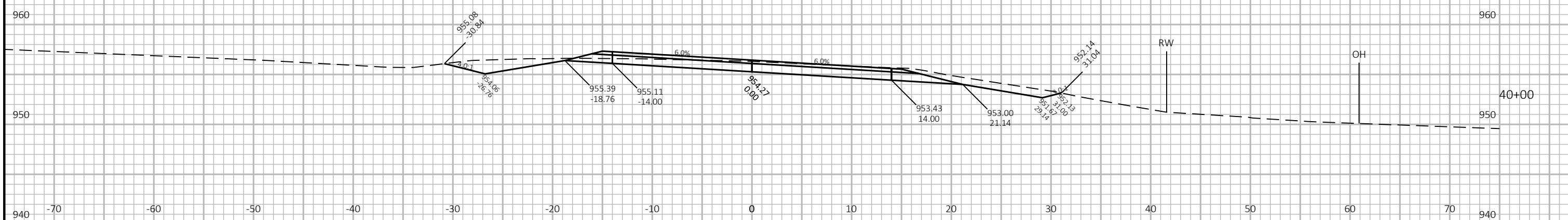
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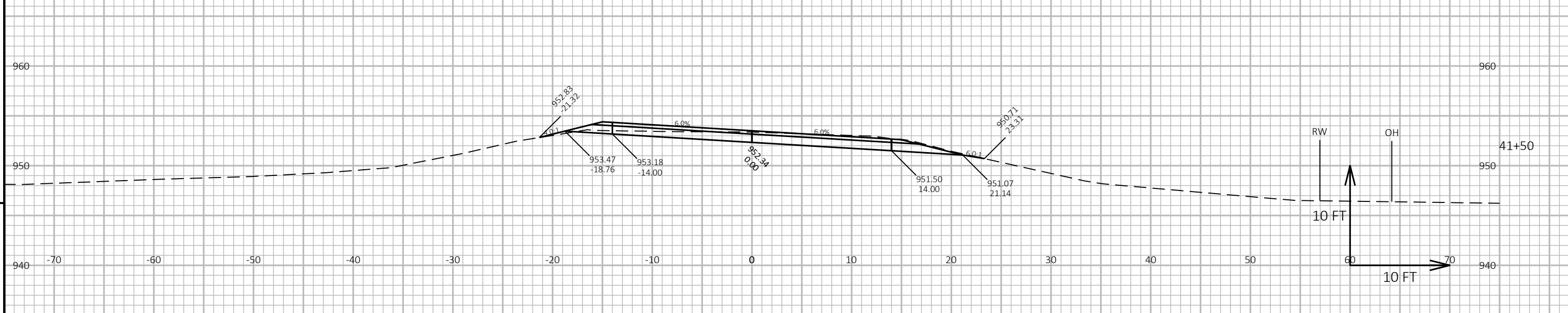
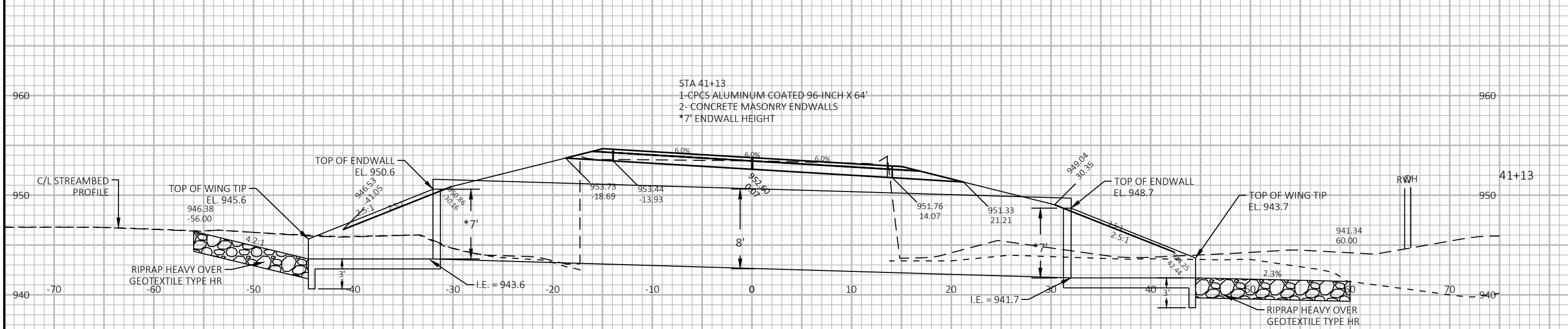
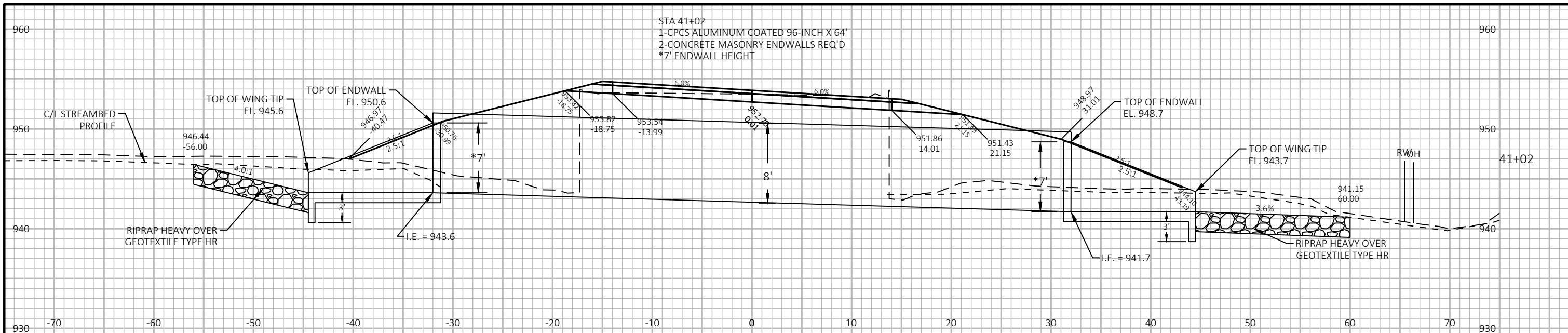
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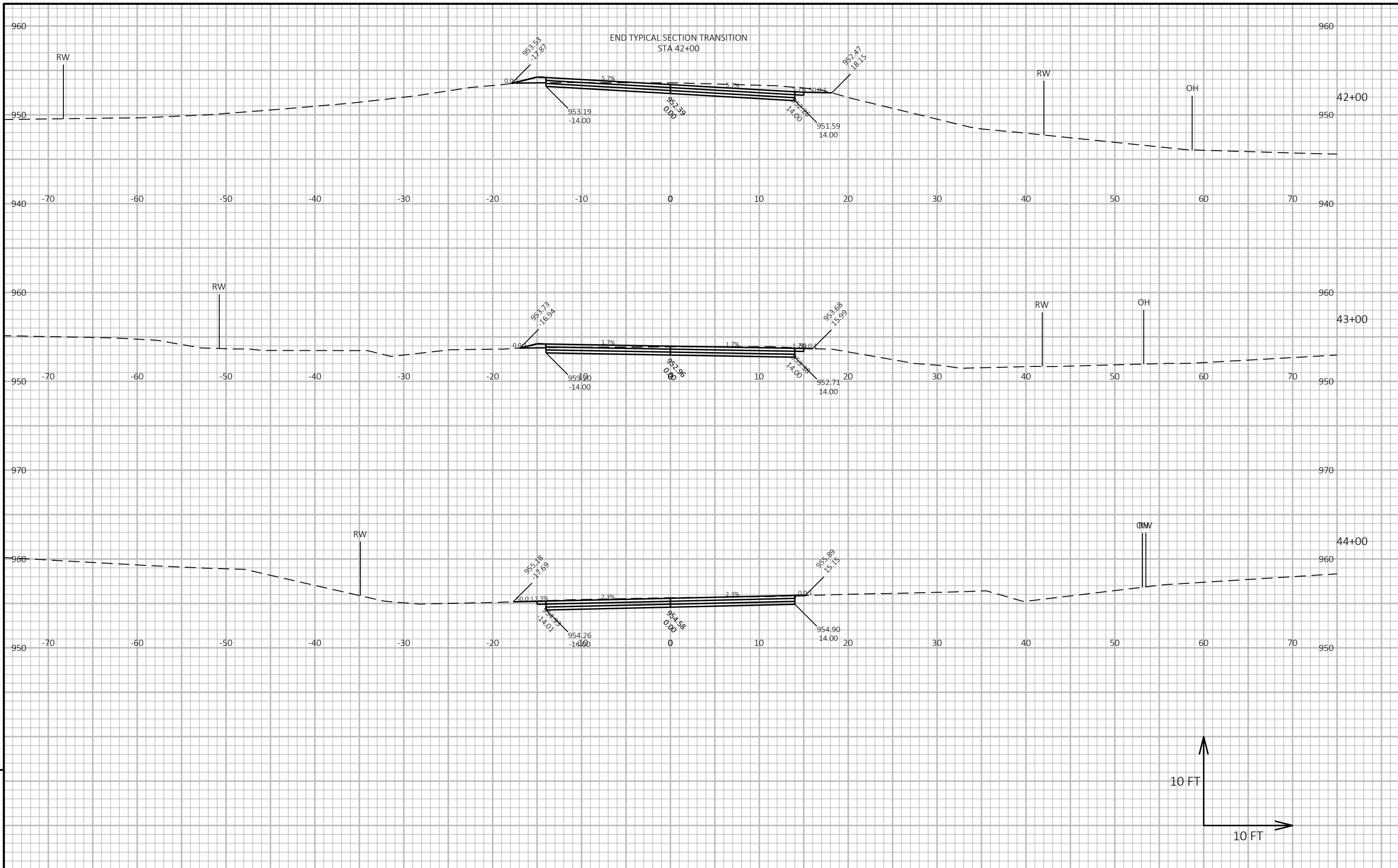
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET: 9



PROJECT NO: 5808-00-73

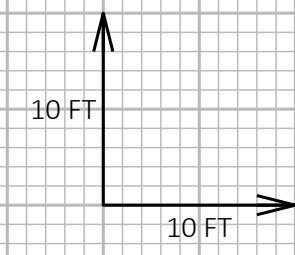
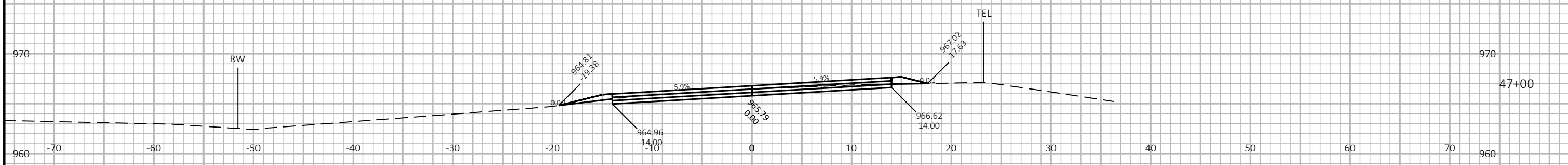
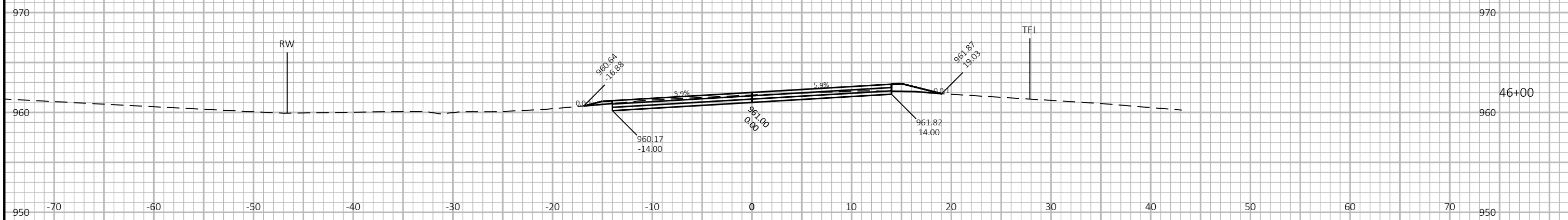
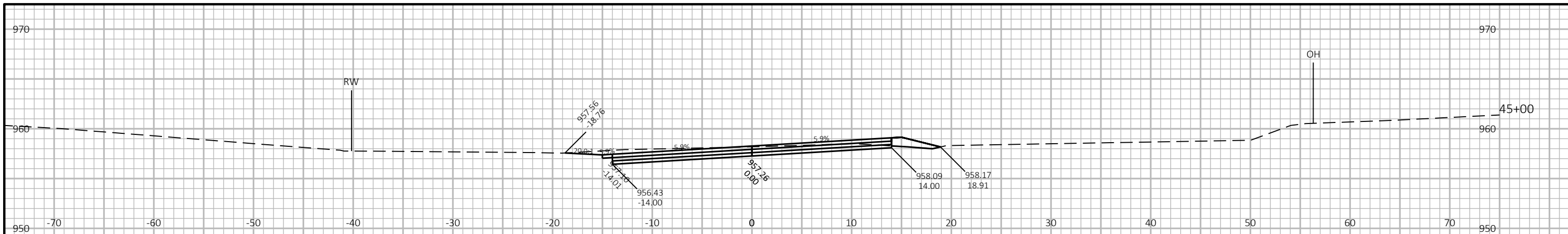
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COUNTY: JUNEAU

CROSS SECTIONS: CTH HH

SHEET

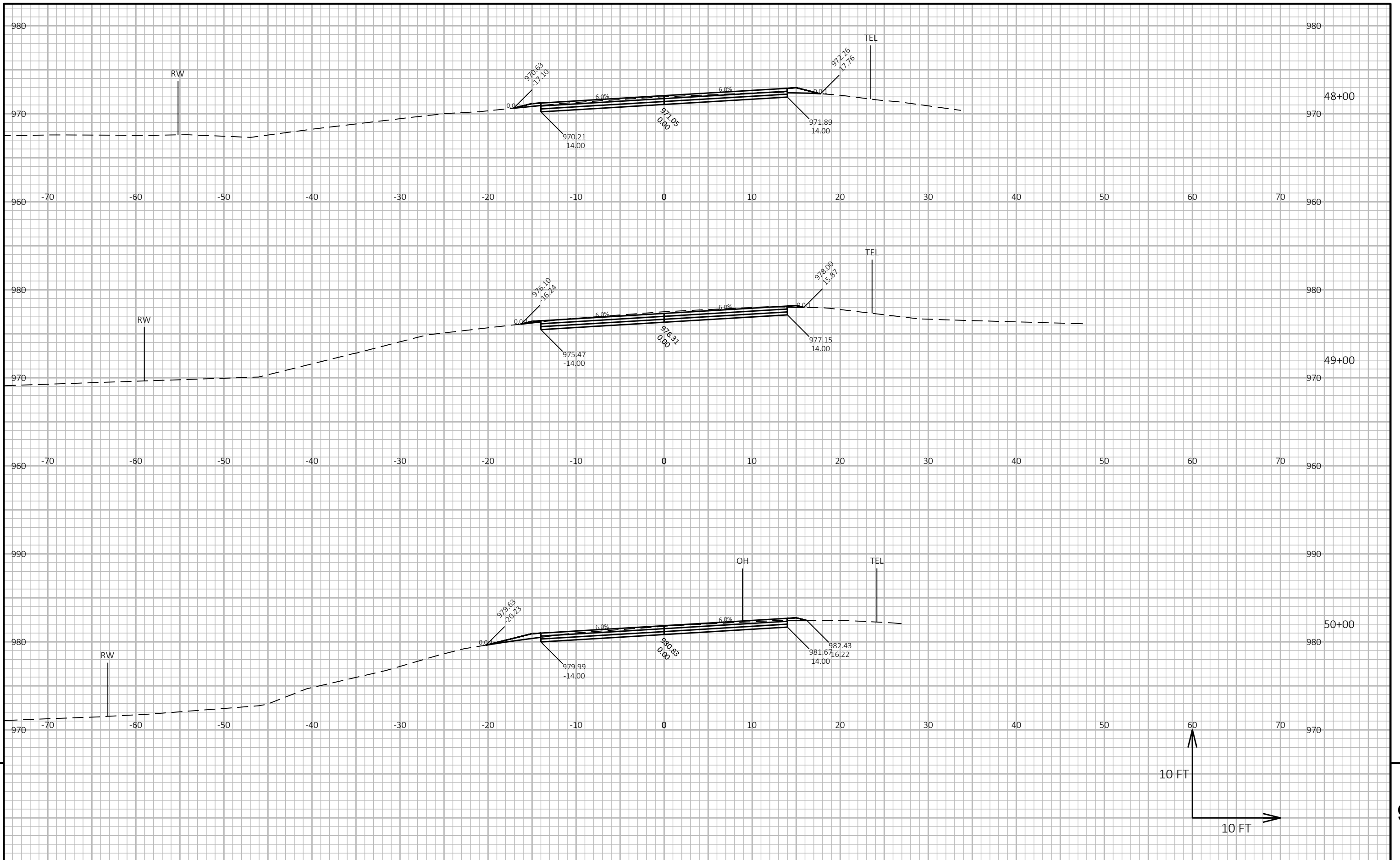
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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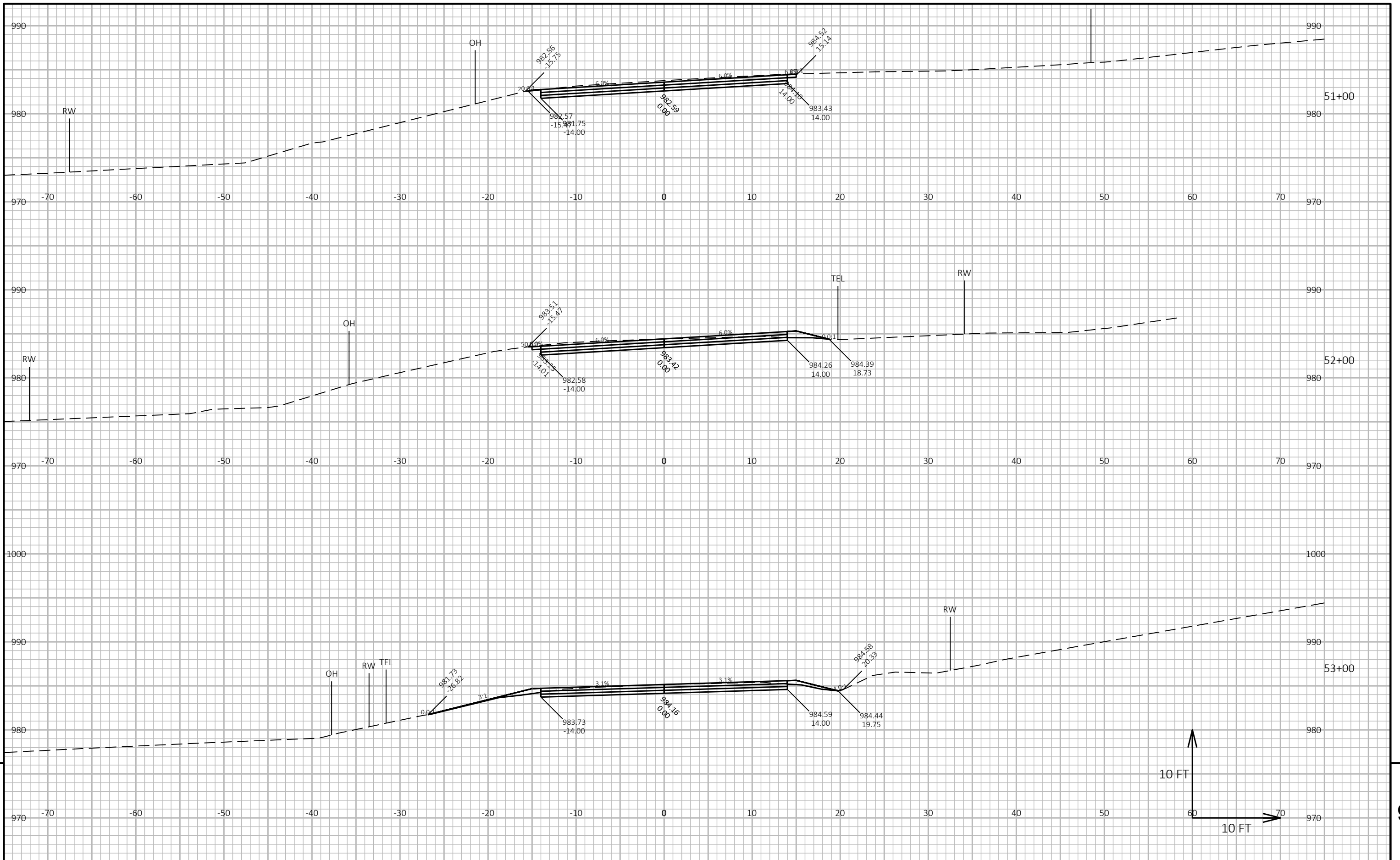
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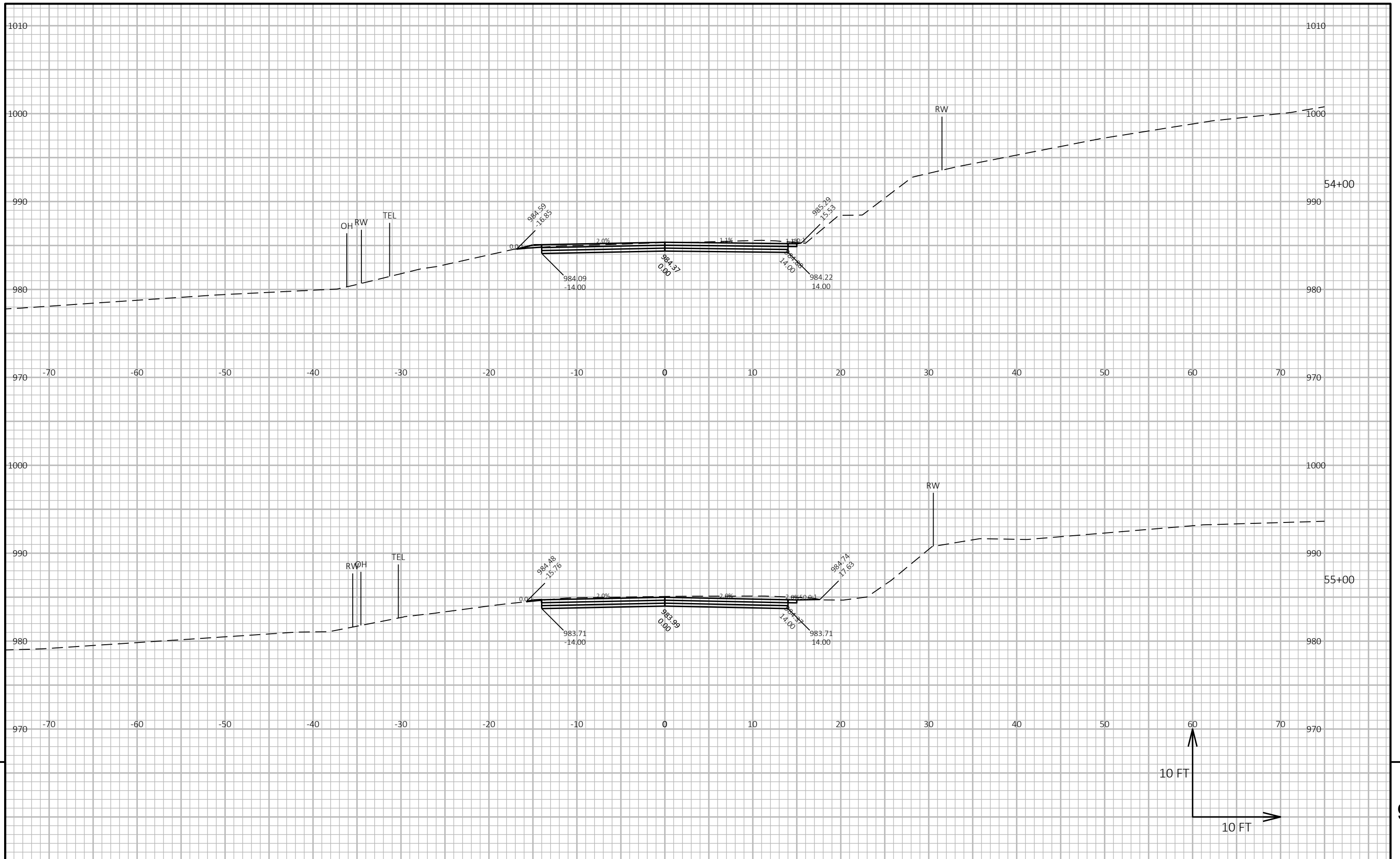
PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/16/2021 8:42 AM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 15



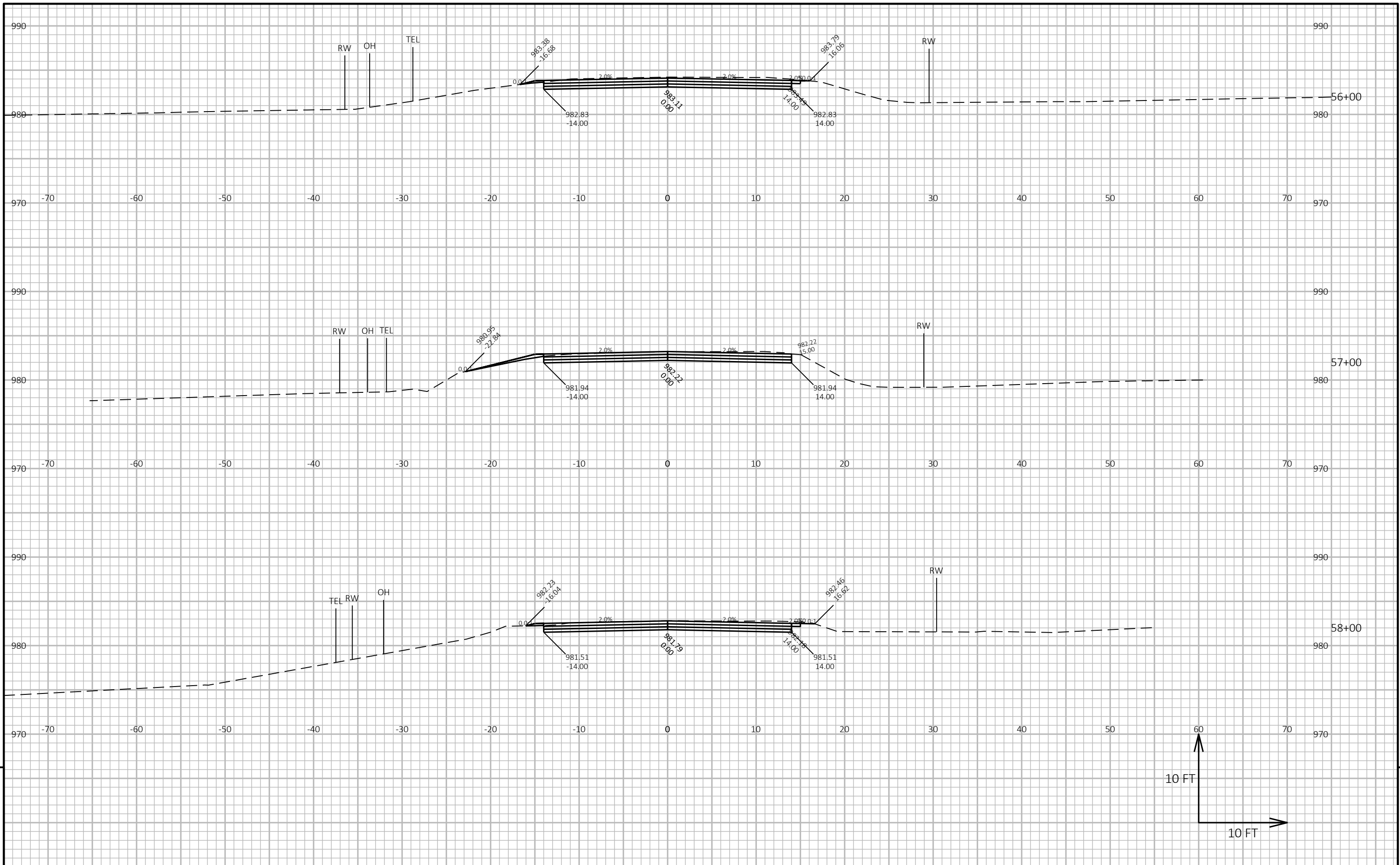
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET 9
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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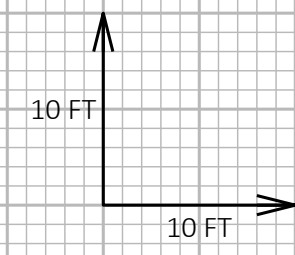
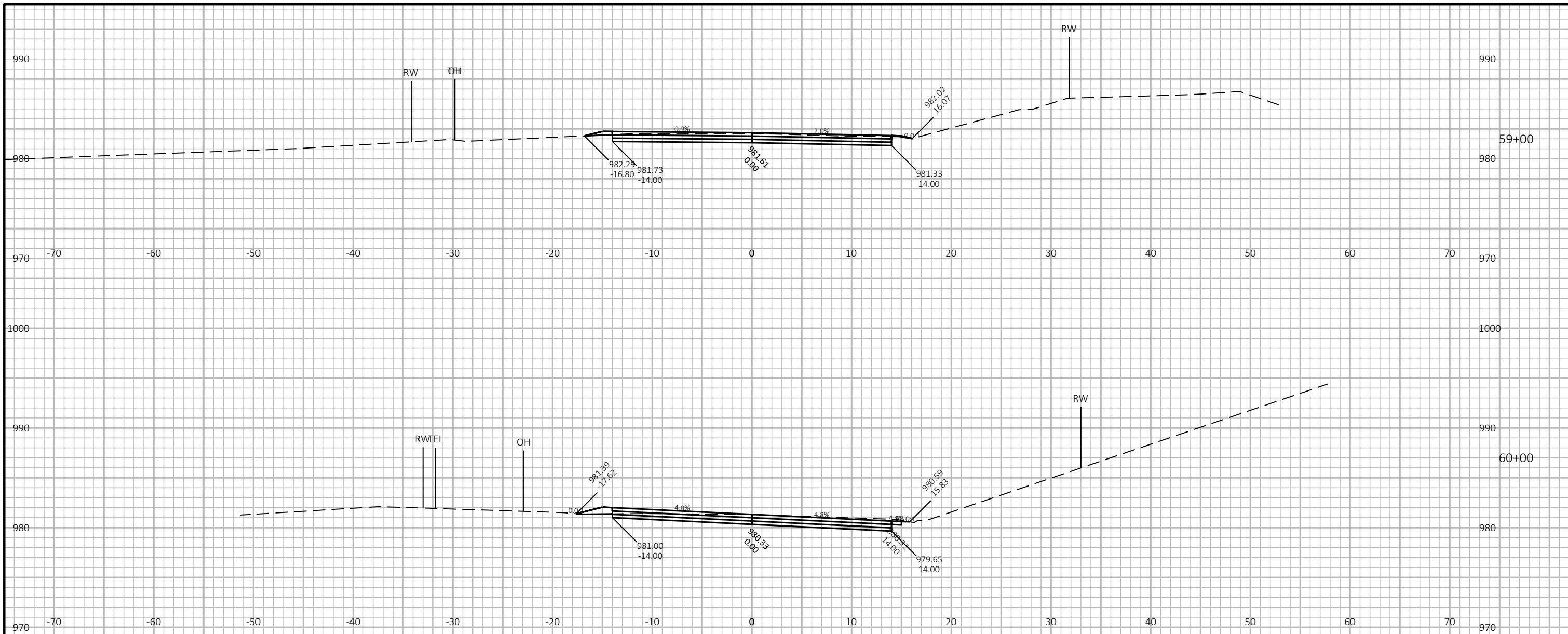
9

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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/16/2021 8:43 AM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

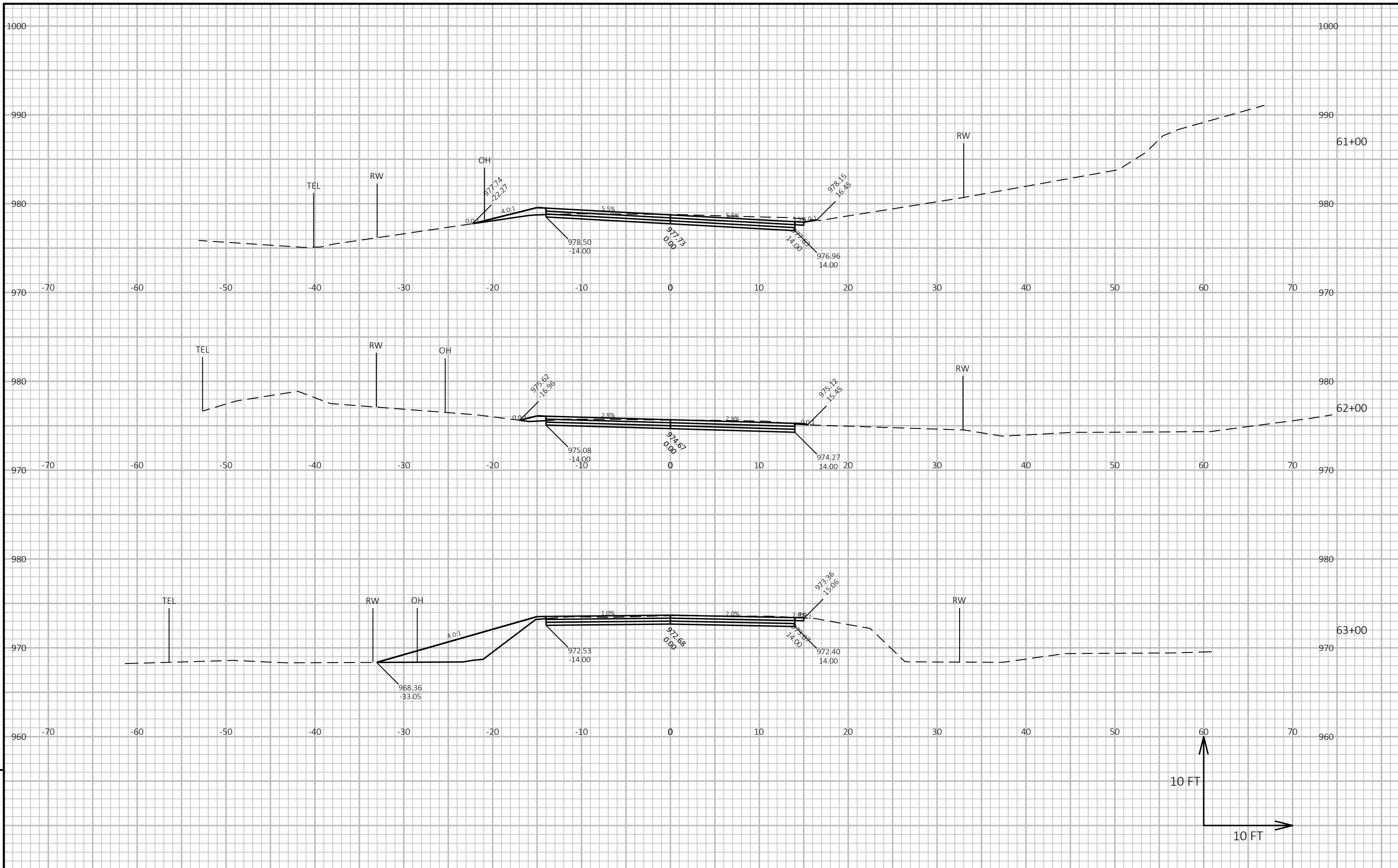
LAYOUT NAME - 18



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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73

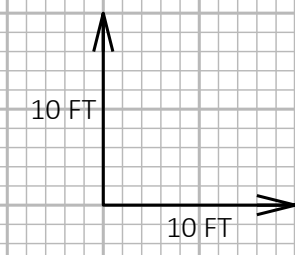
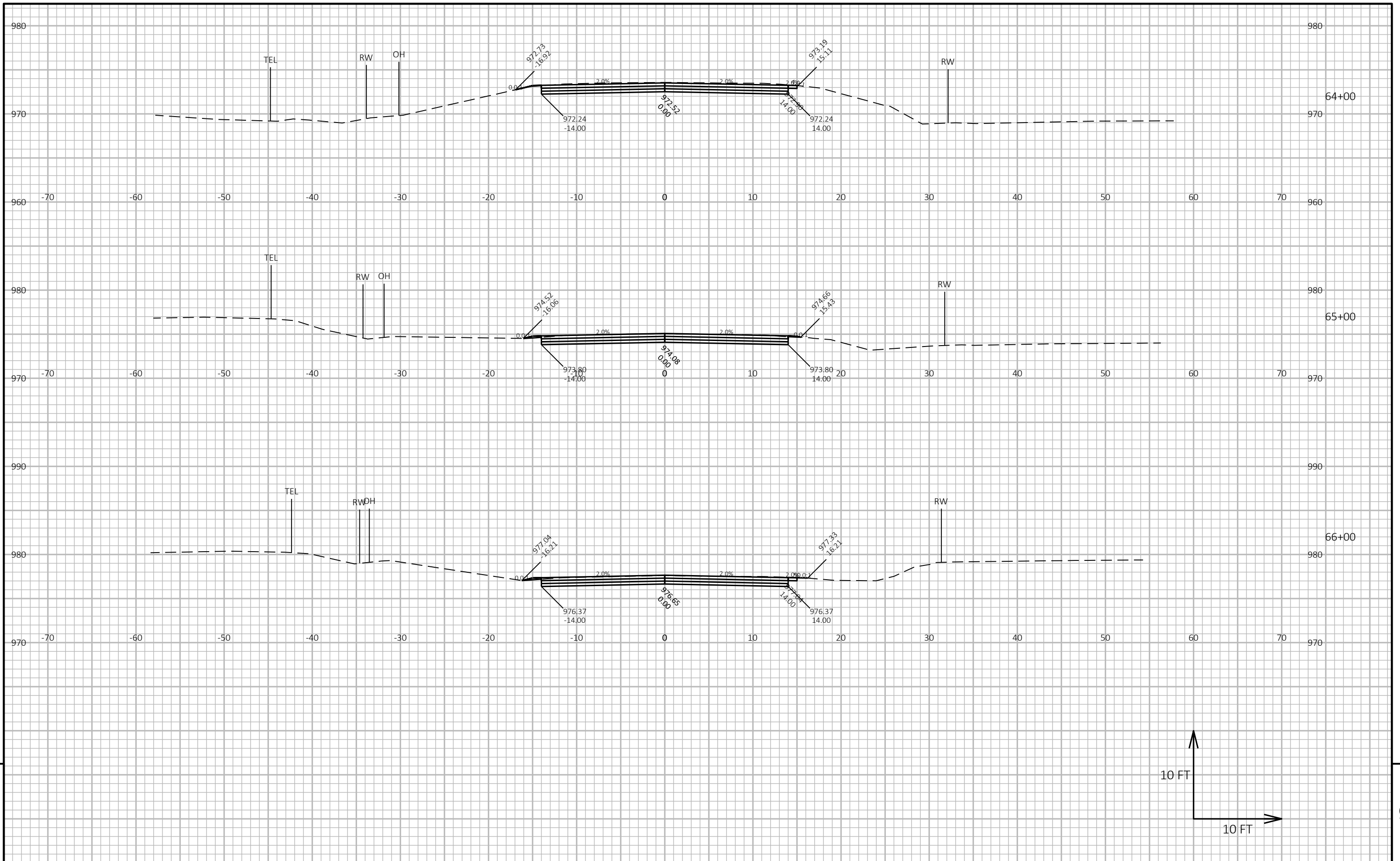
HWY: CTH HH

COUNTY: JUNEAU

CROSS SECTIONS: CTH HH

SHEET

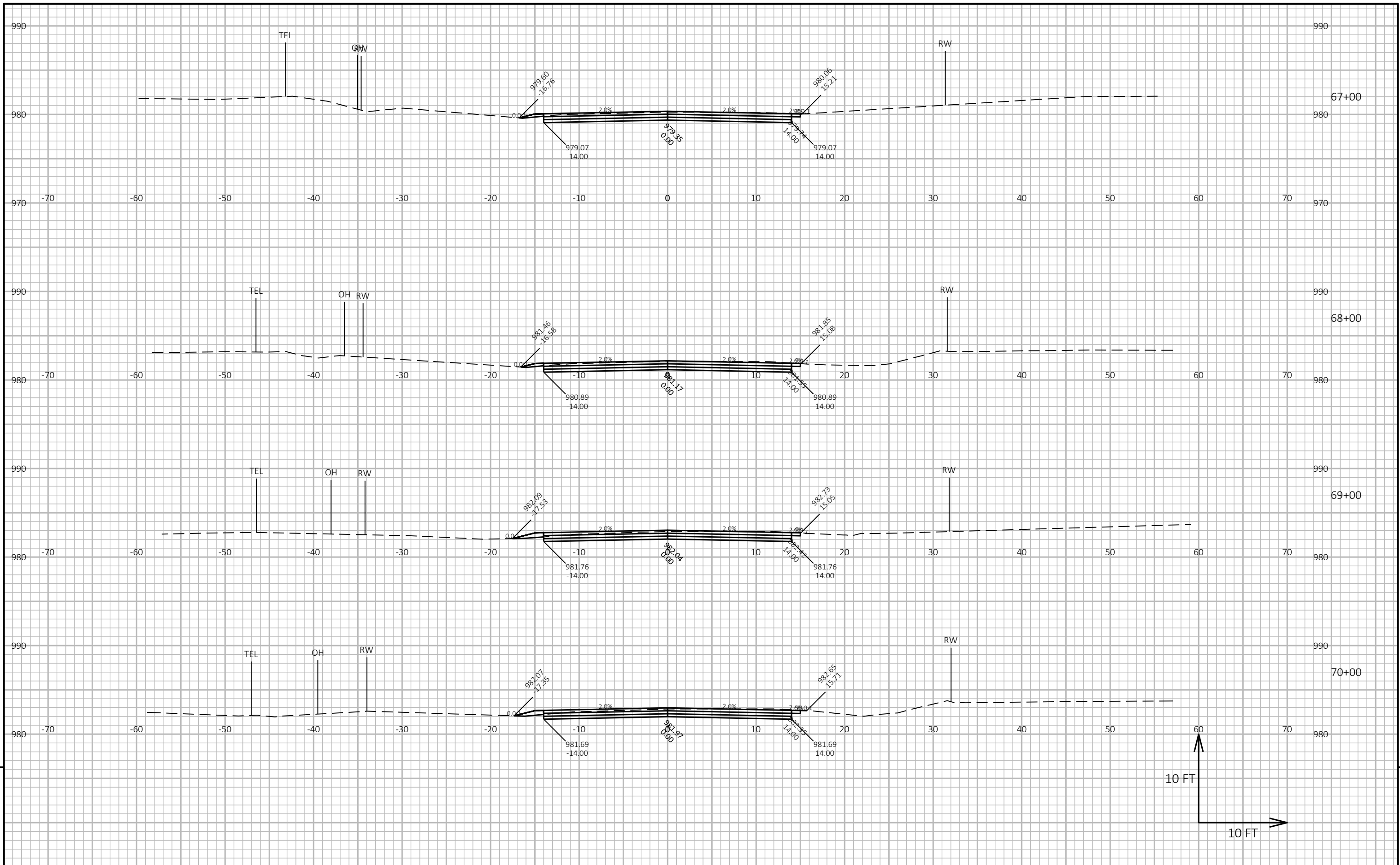
E



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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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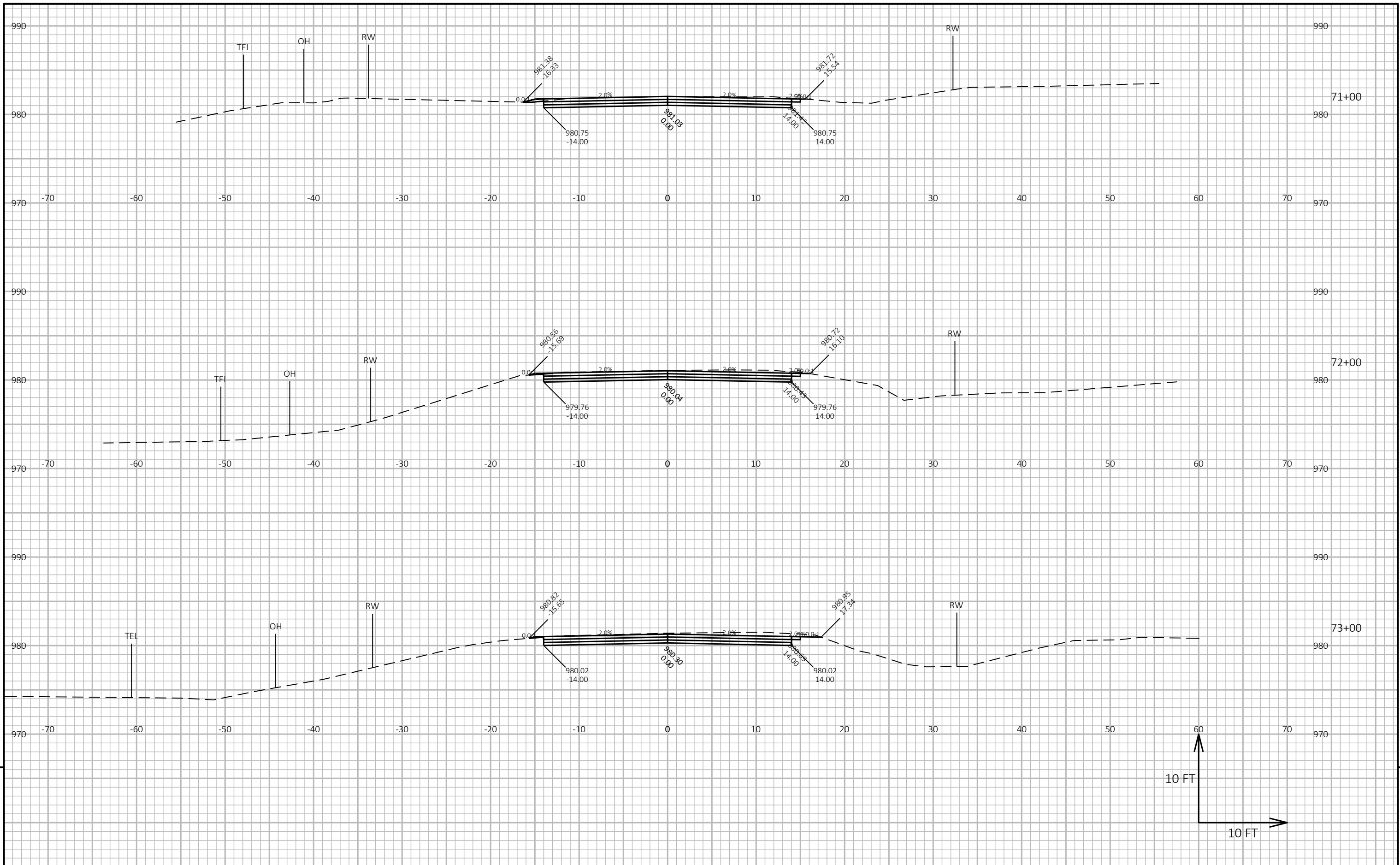
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/16/2021 8:44 AM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 22



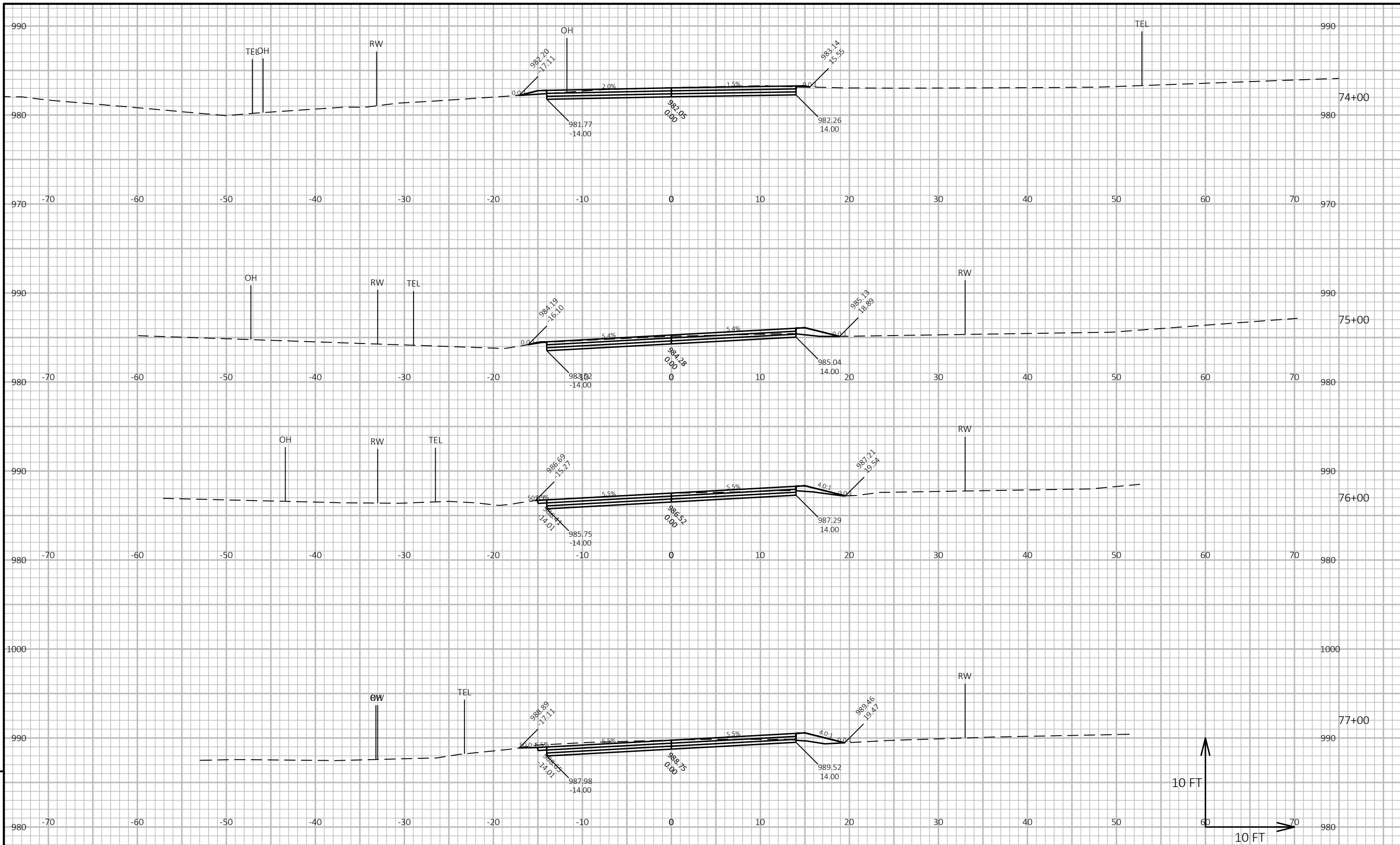
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

FILE NAME : P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE : 4/16/2021 8:44 AM PLOT BY : BOBBI MAXWELL PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 23



PROJECT NO: 5808-00-73

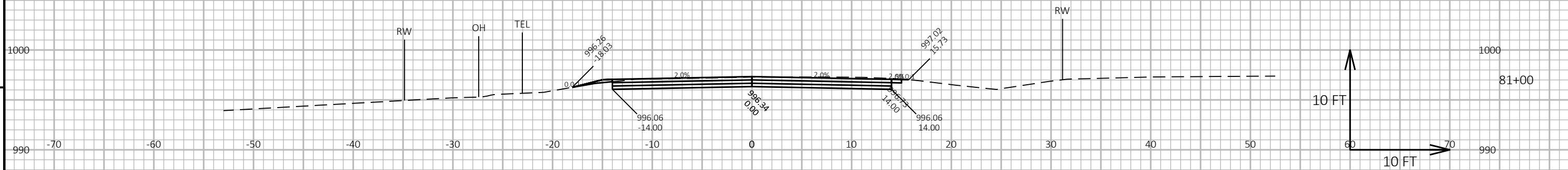
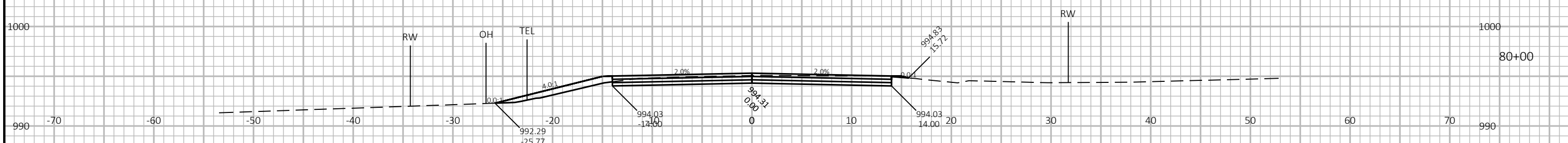
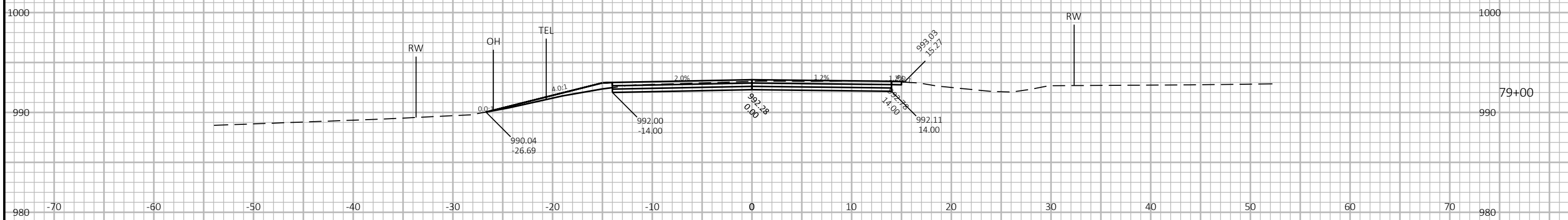
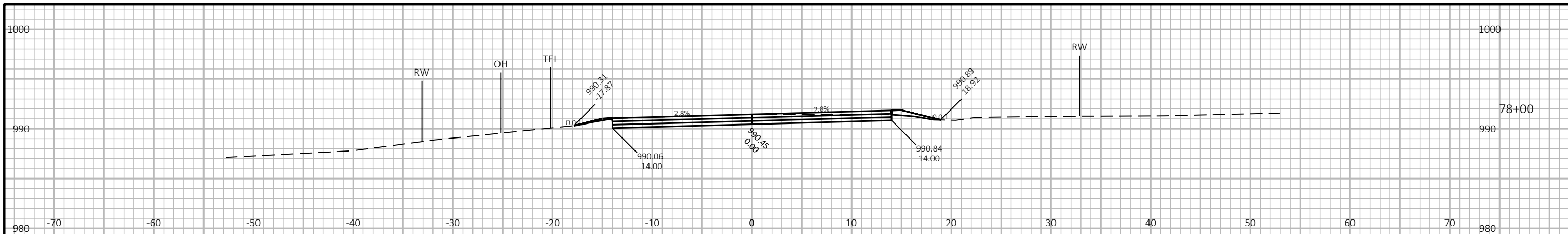
HWY: CTH HH

COUNTY: JUNEAU

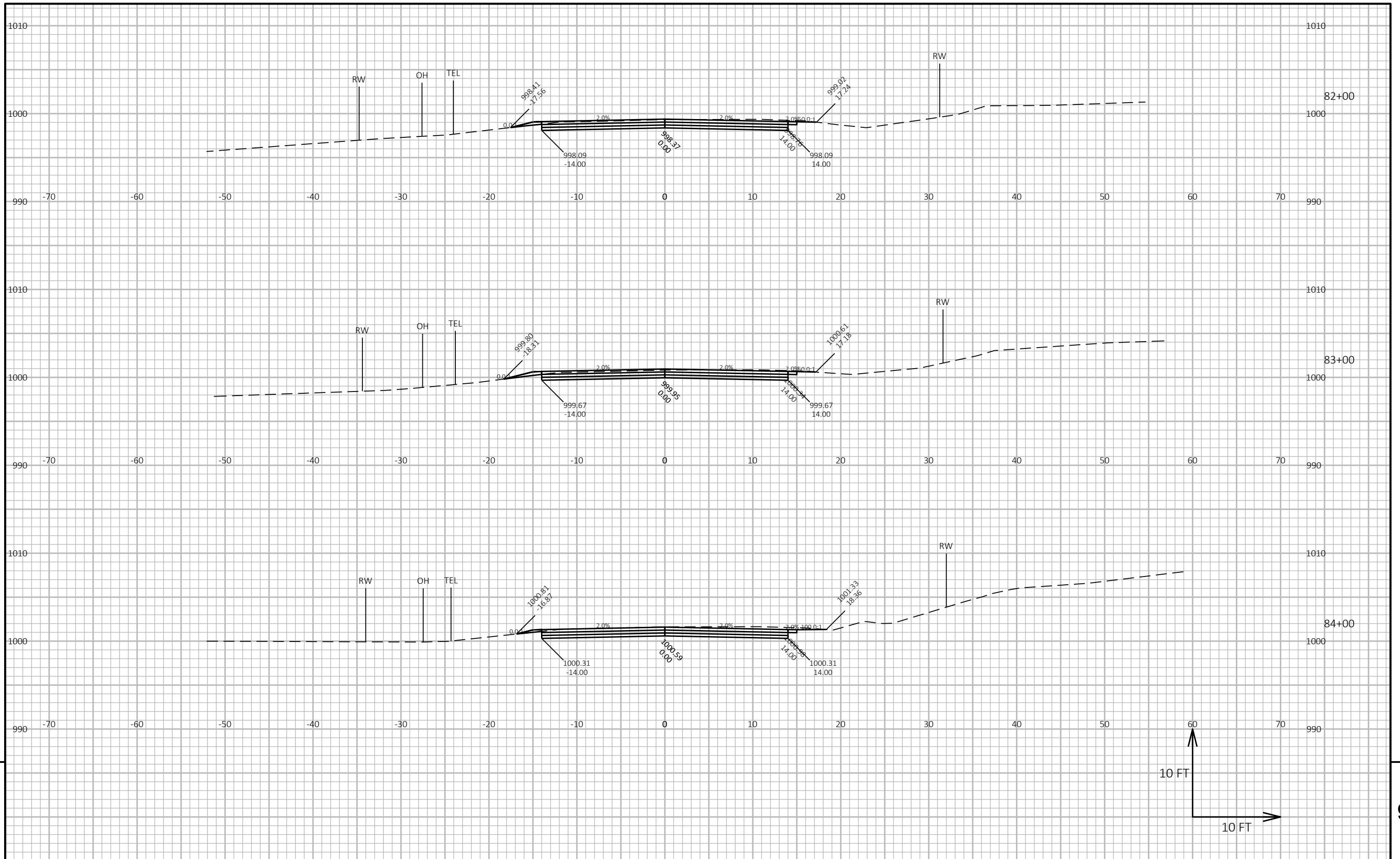
CROSS SECTIONS: CTH HH

SHEET

E



PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET: 9



PROJECT NO: 5808-00-73

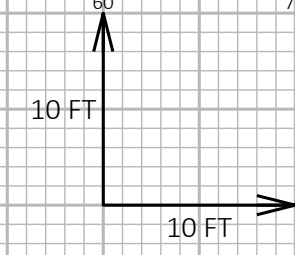
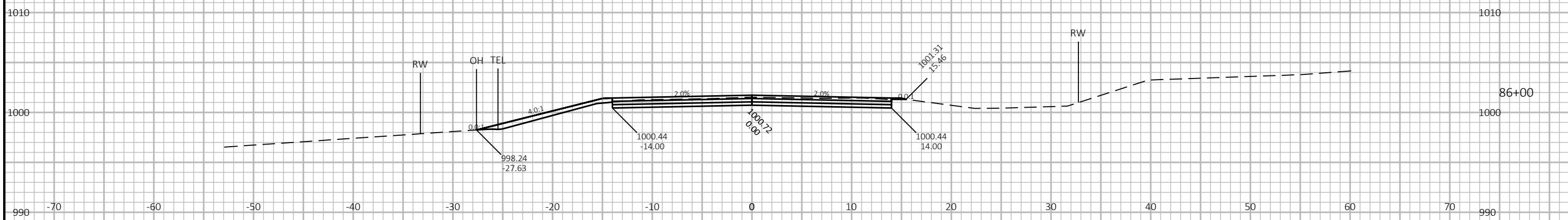
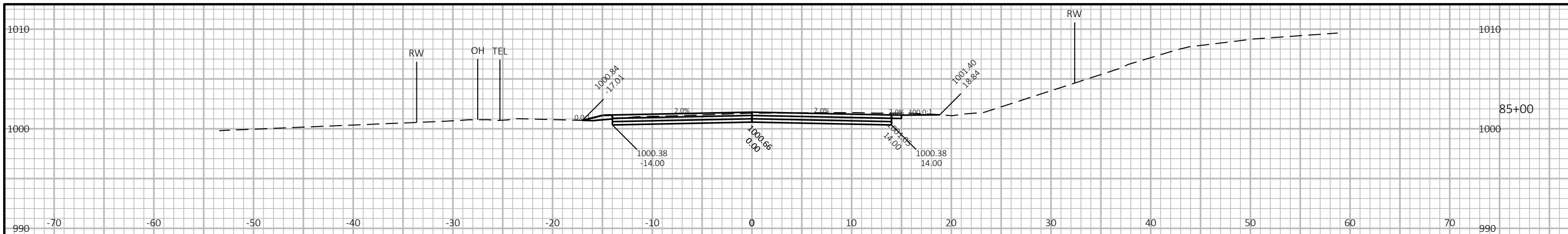
HWY: CTH HH

COUNTY: JUNEAU

CROSS SECTIONS: CTH HH

SHEET

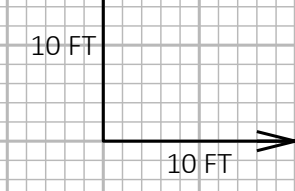
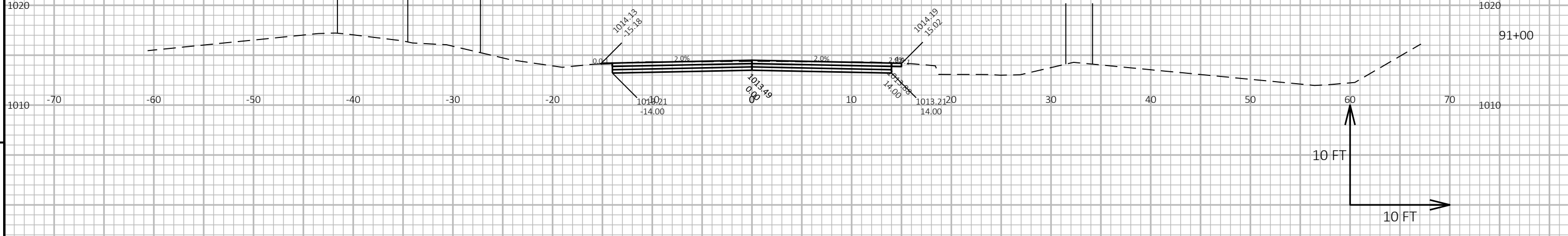
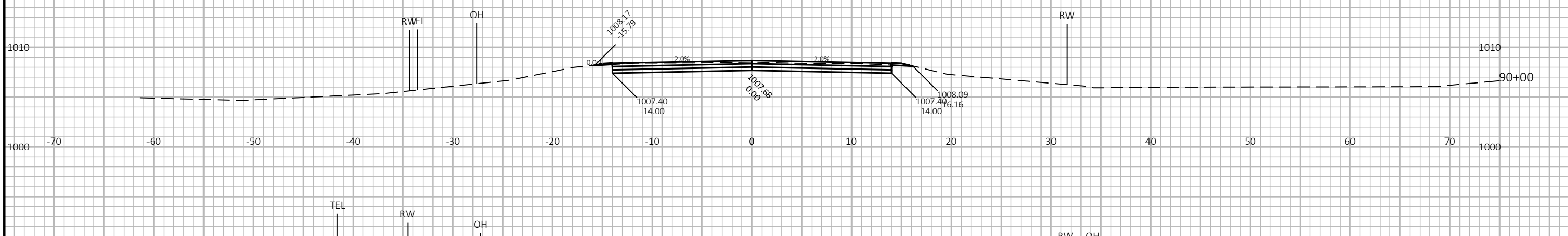
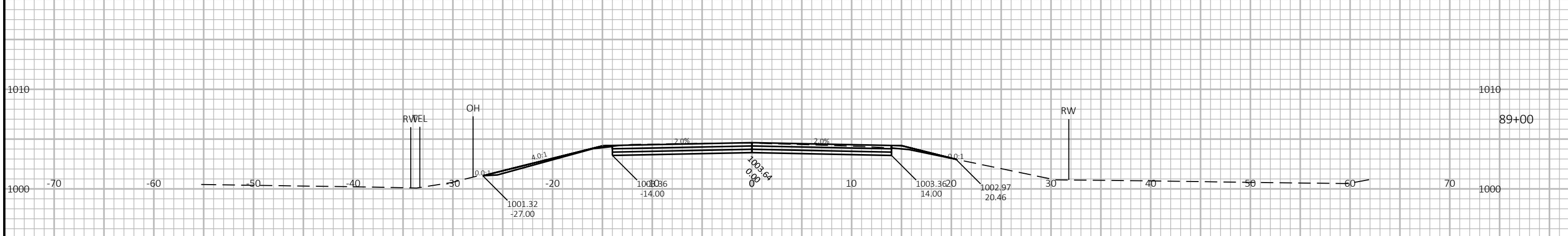
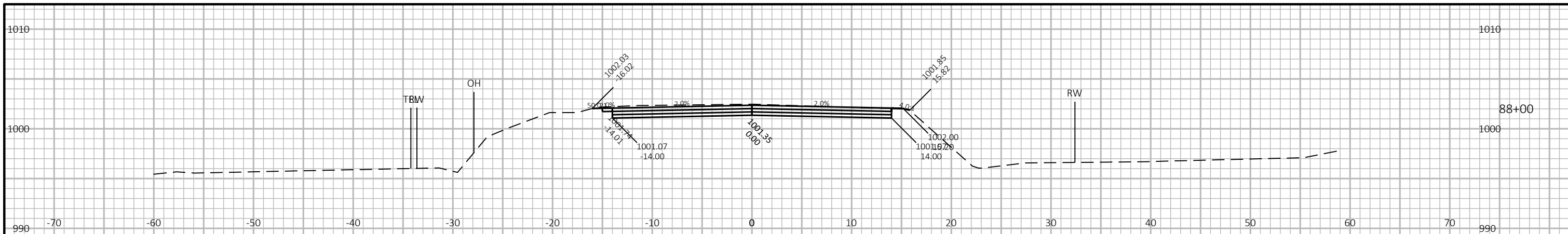
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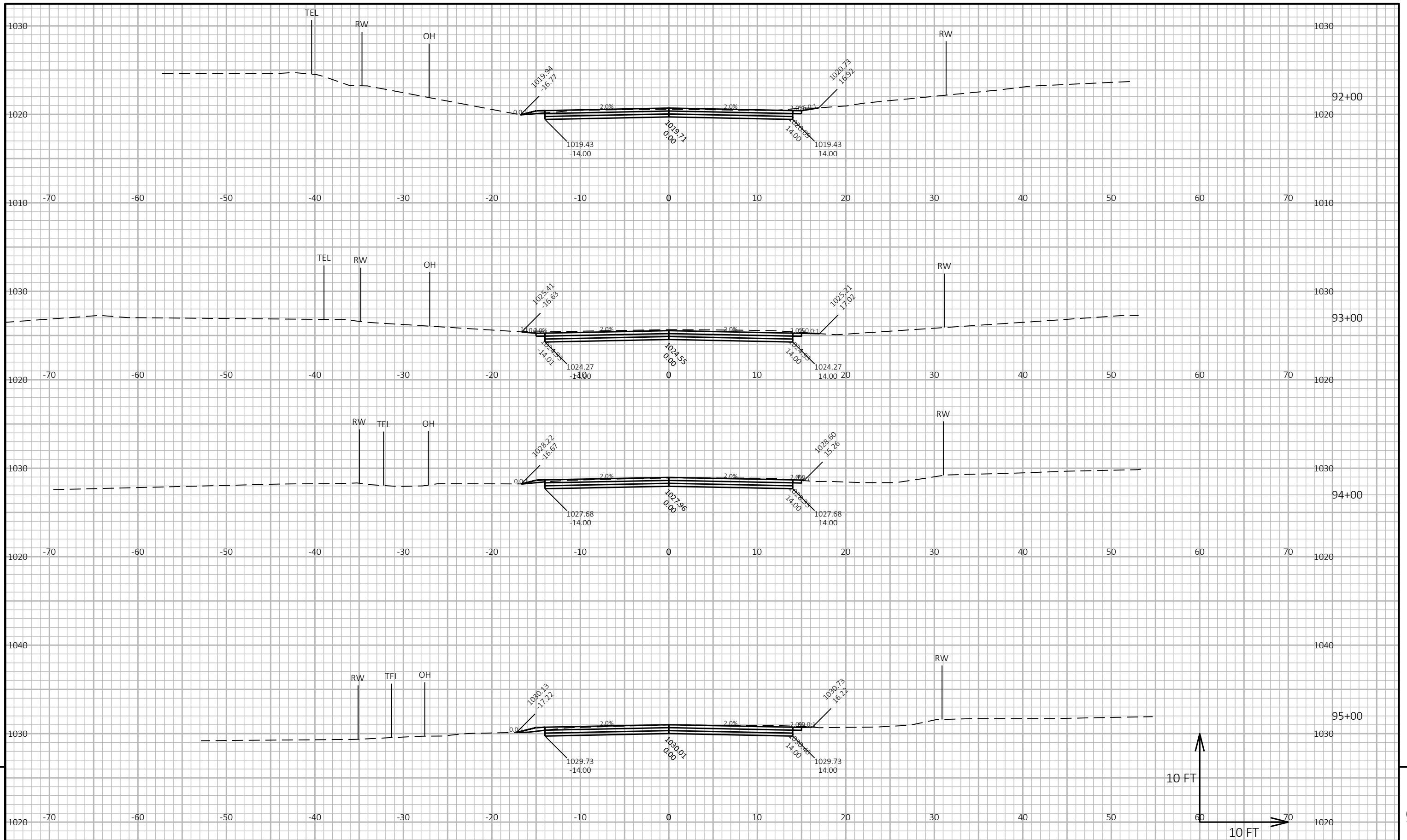
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73

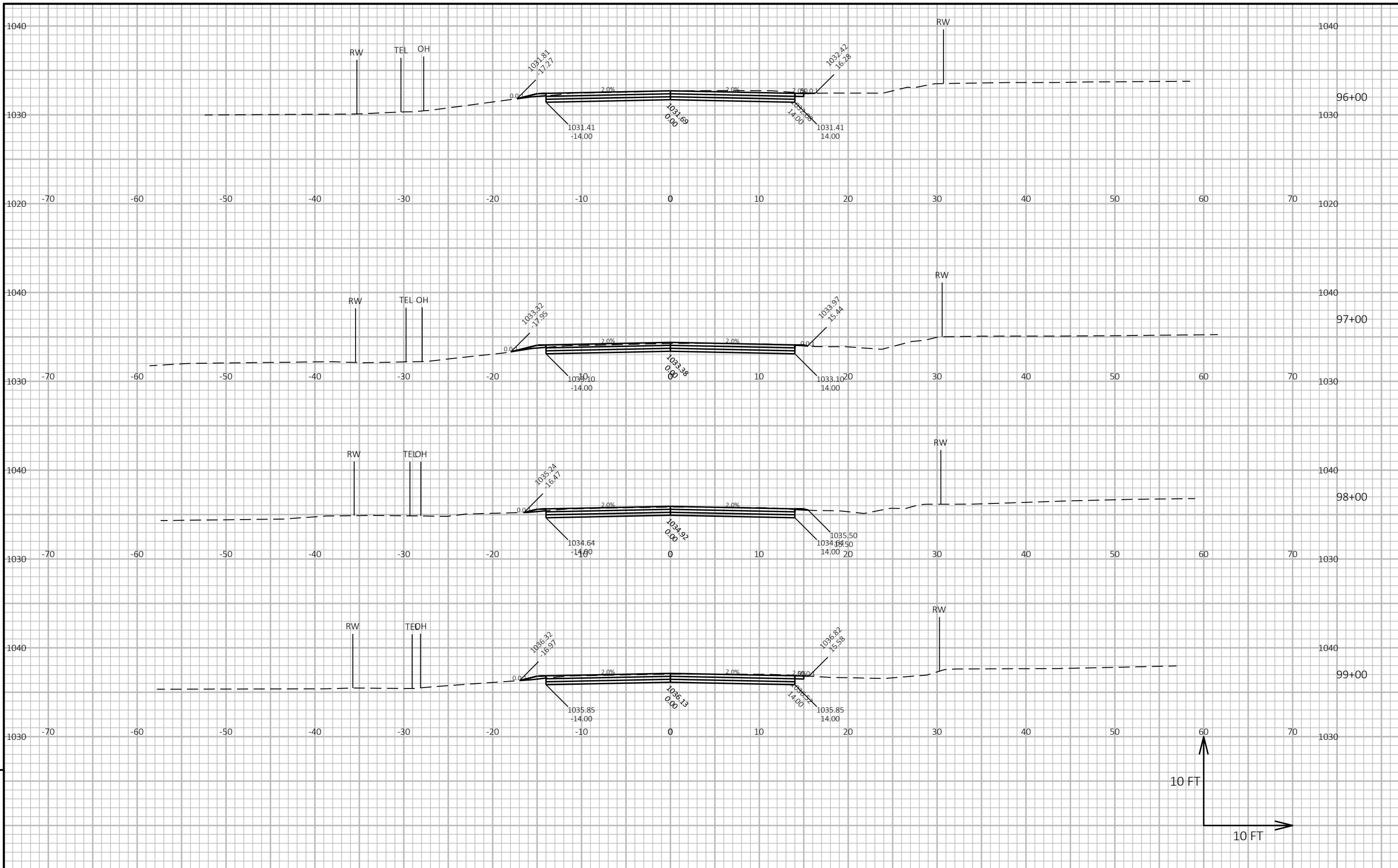
HWY: CTH HH

COUNTY: JUNEAU

CROSS SECTIONS: CTH HH

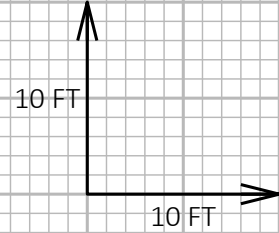
SHEET

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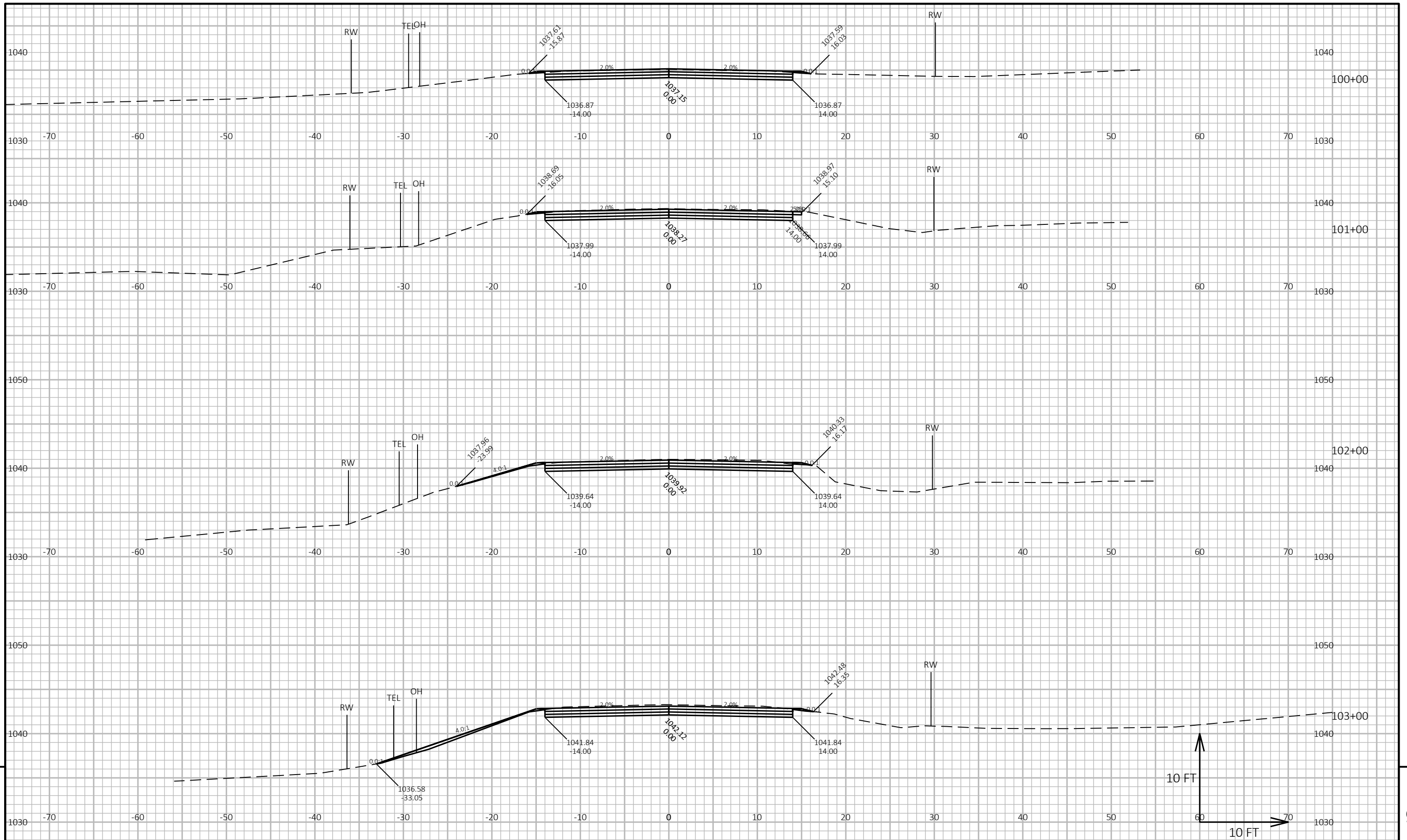


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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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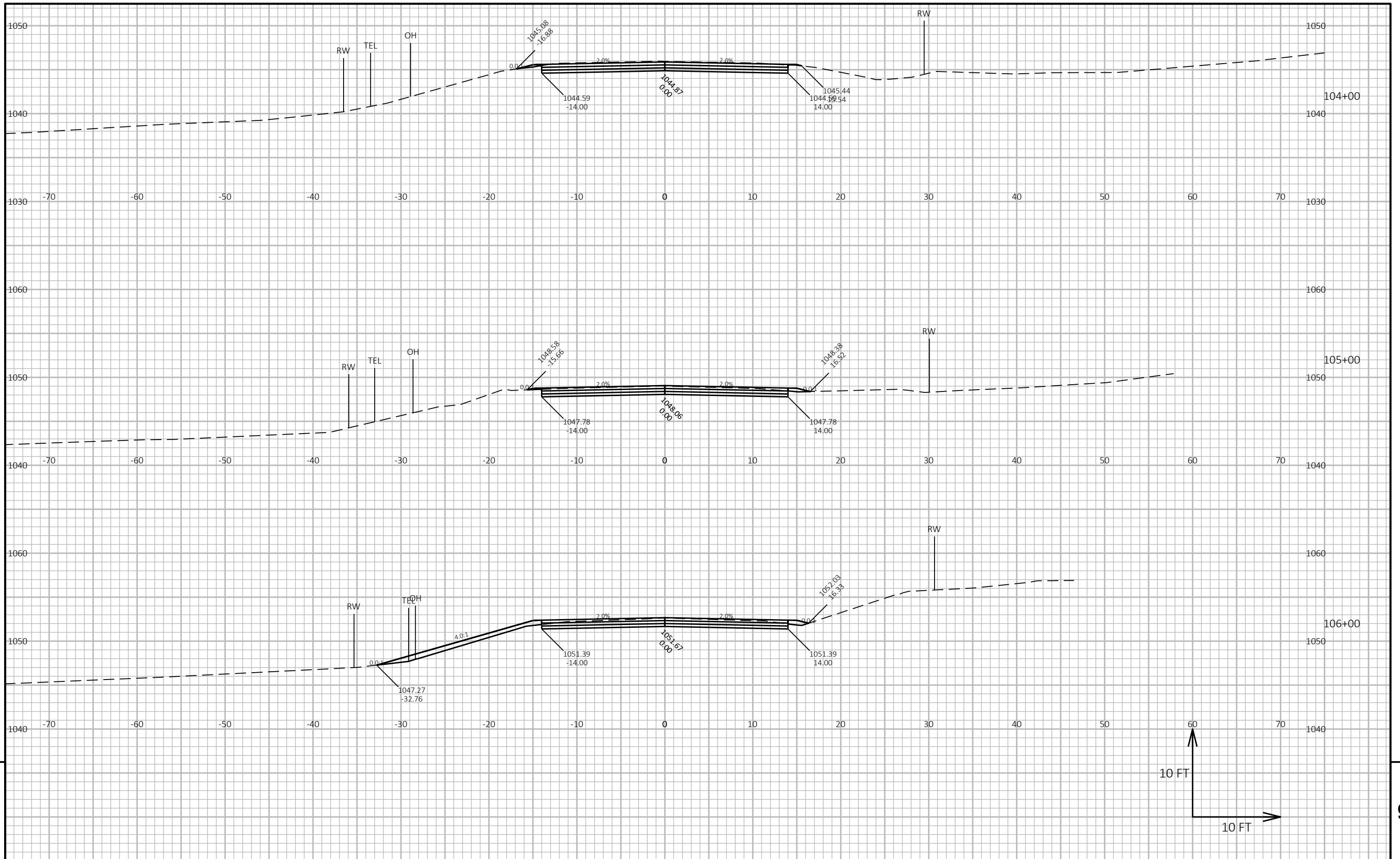
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

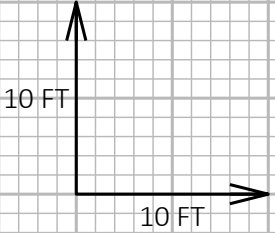
FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/16/2021 8:46 AM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 31

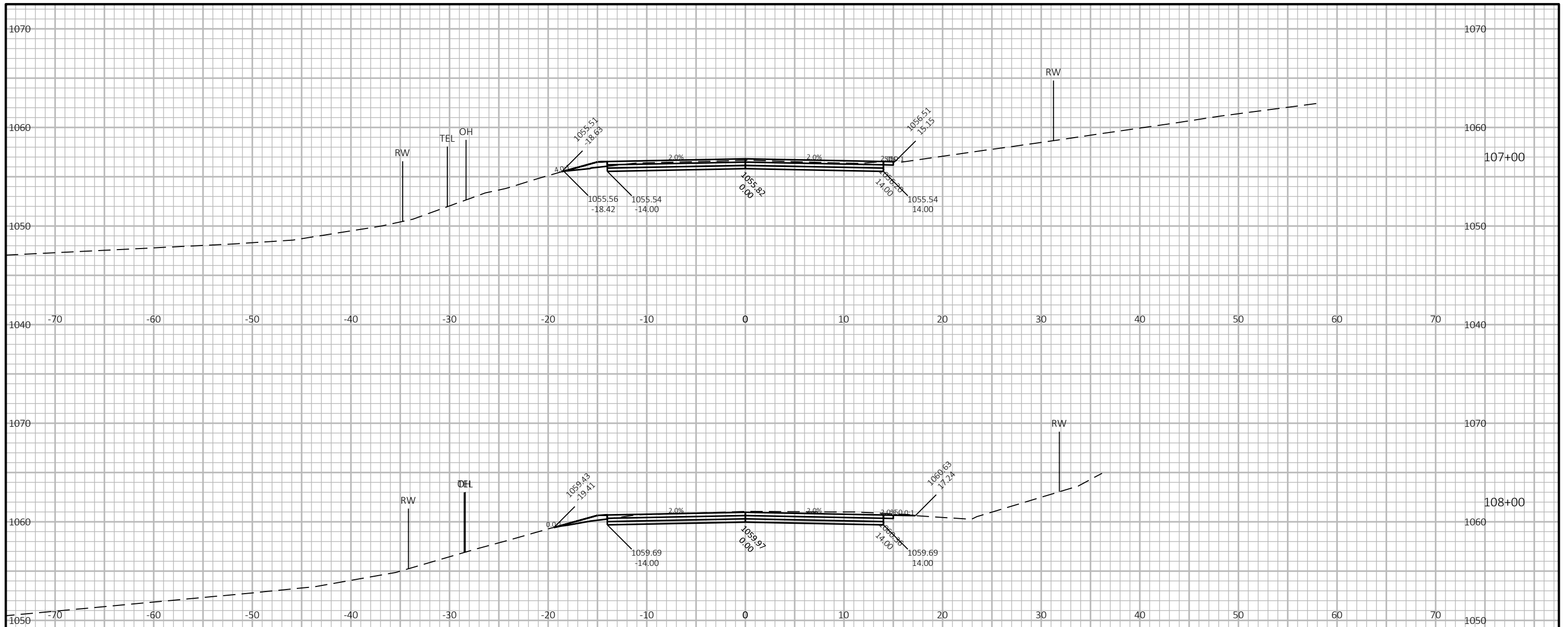


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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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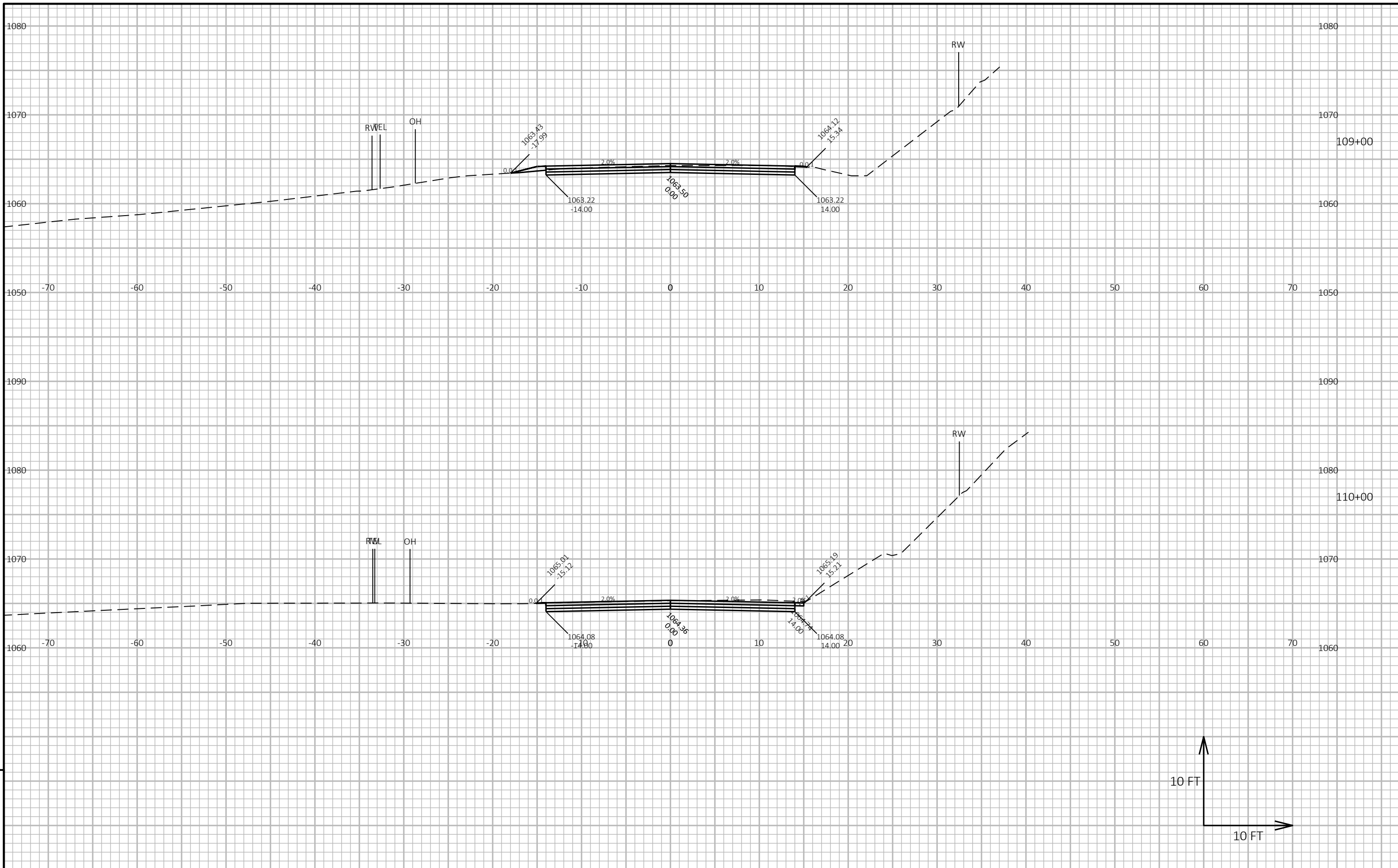
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

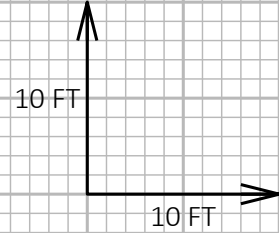
FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/16/2021 8:47 AM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 33

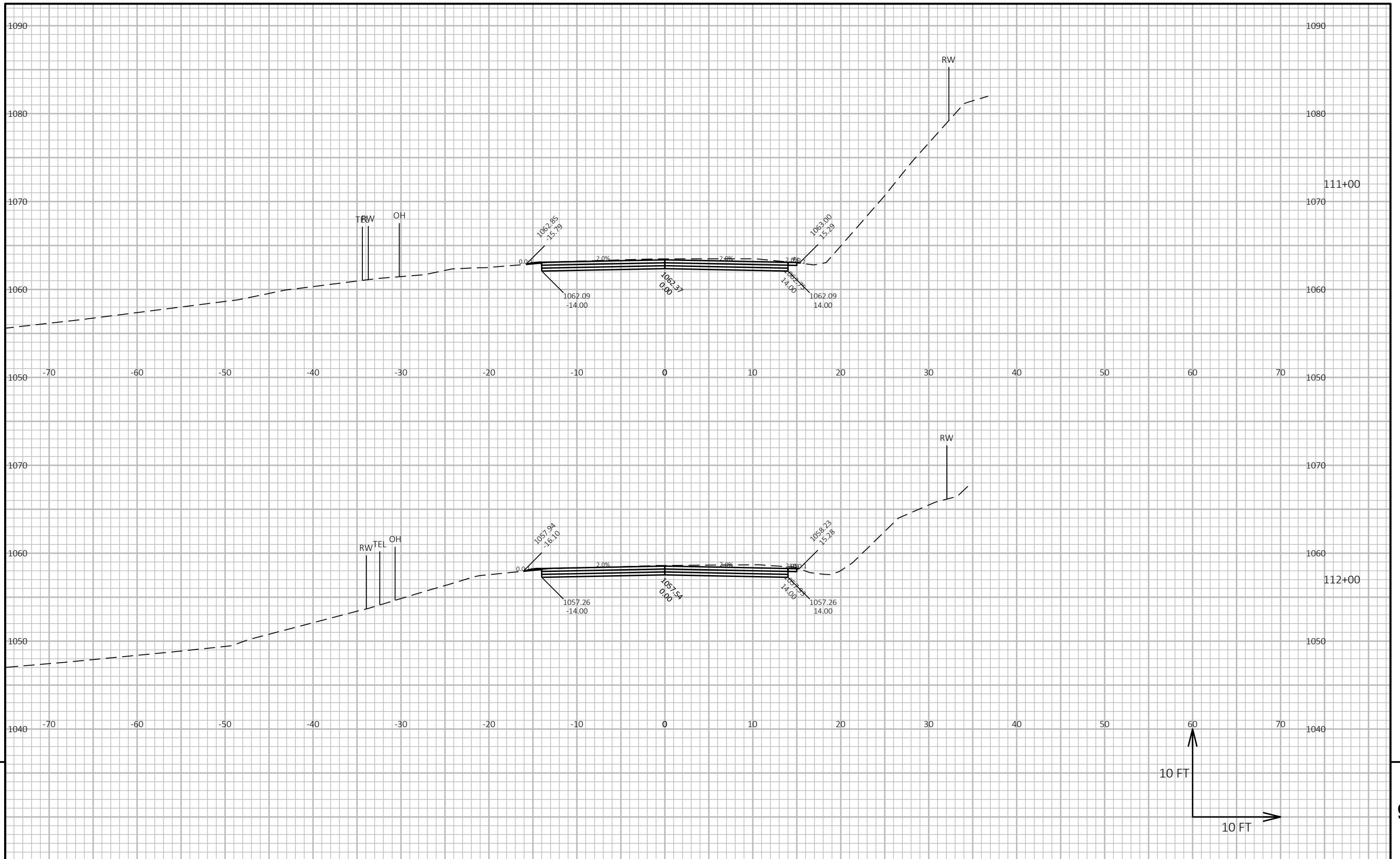


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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73

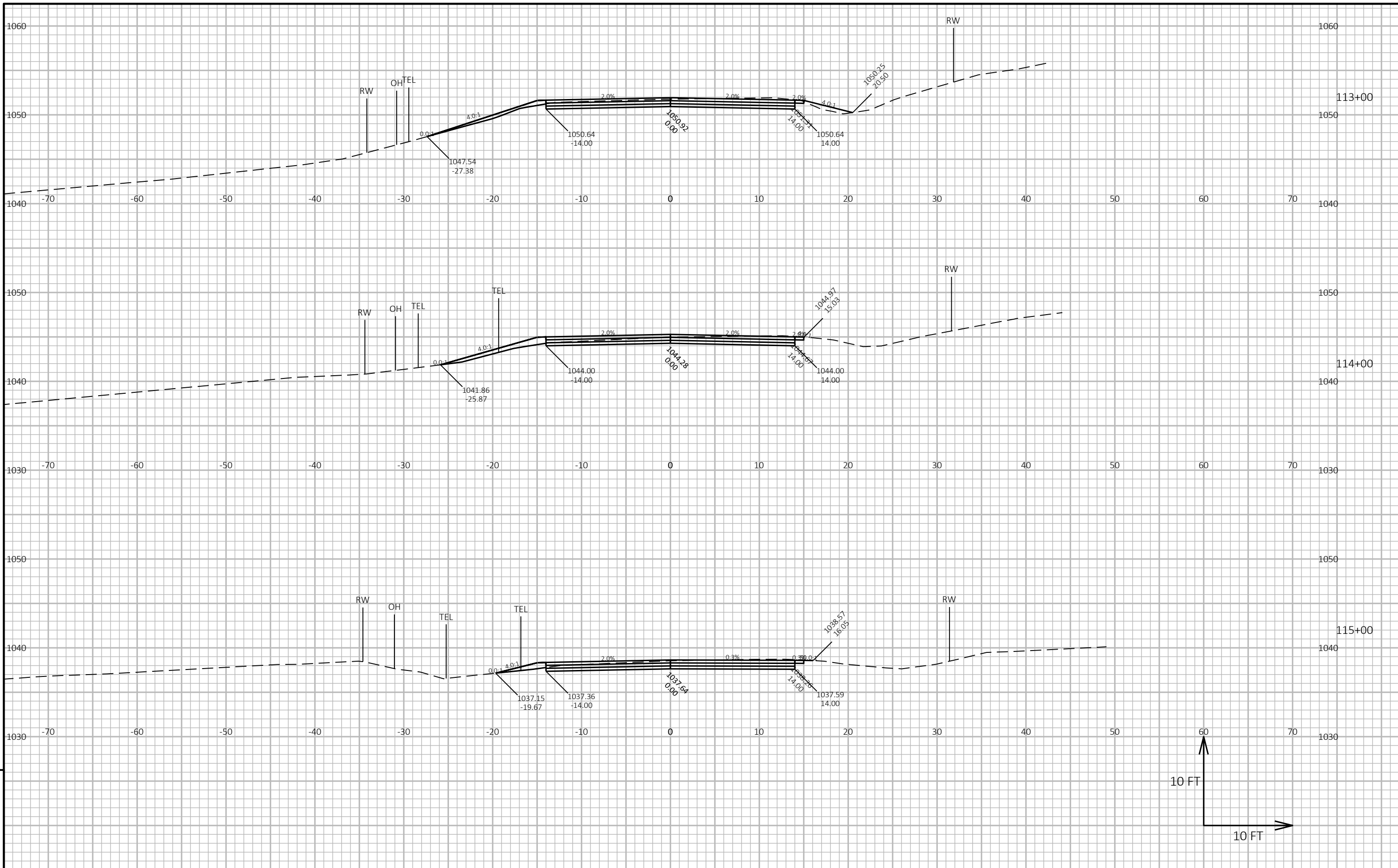
HWY: CTH HH

COUNTY: JUNEAU

CROSS SECTIONS: CTH HH

SHEET

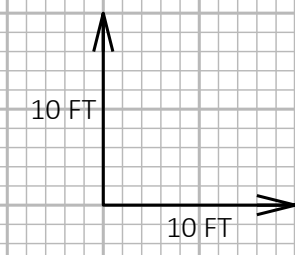
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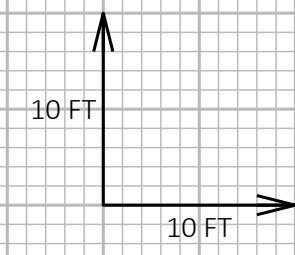
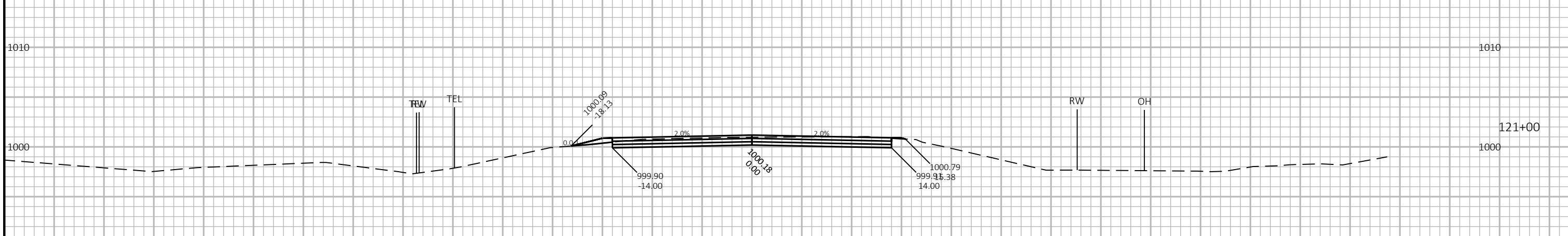
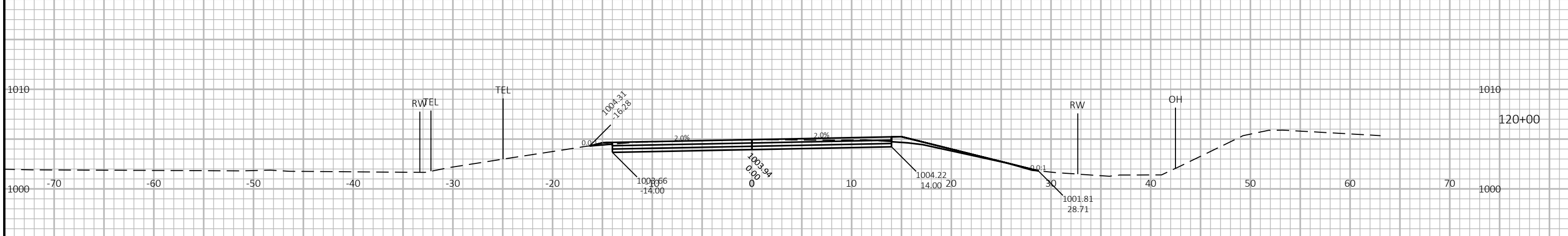
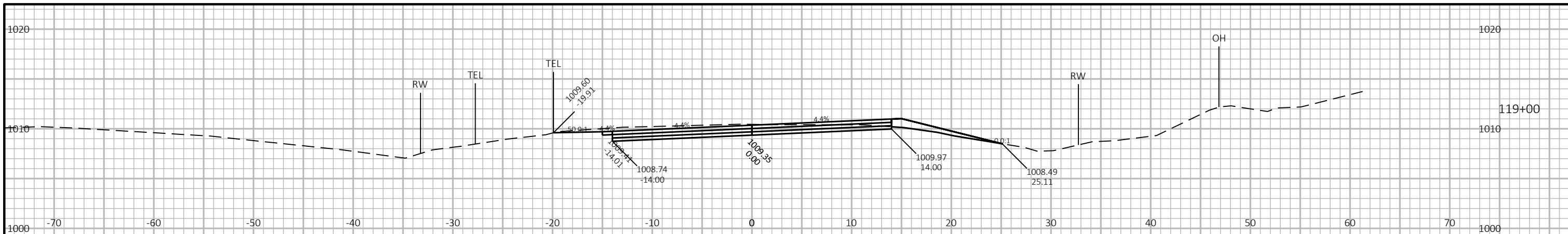
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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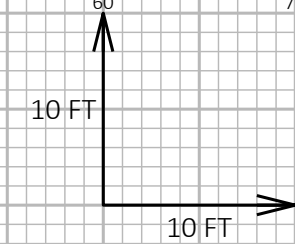
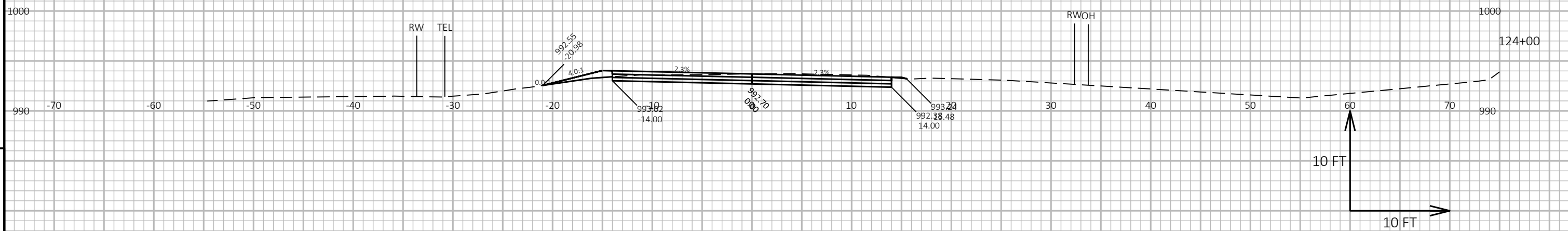
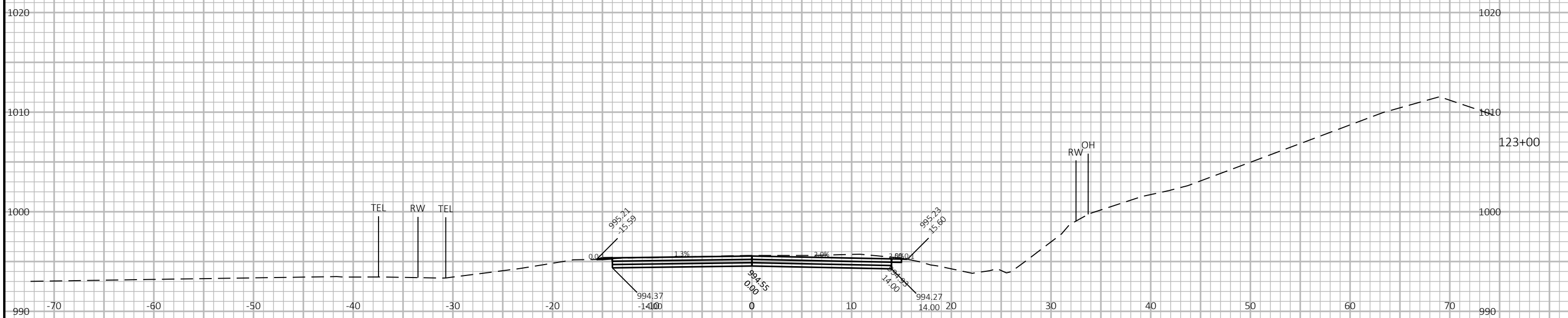
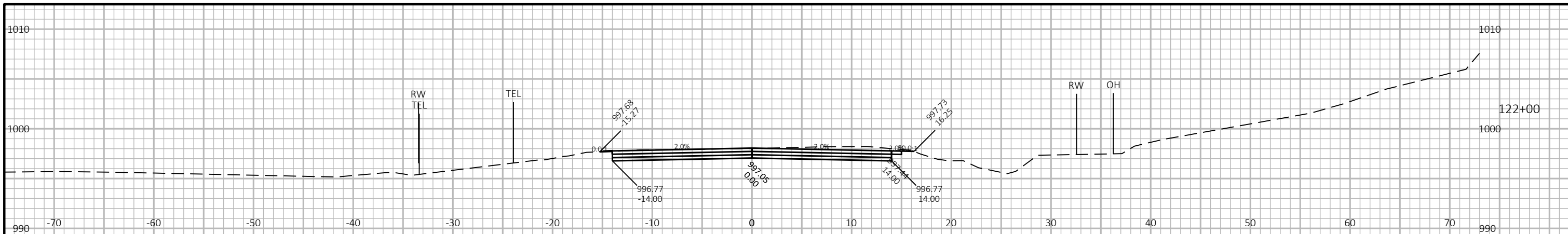
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET E
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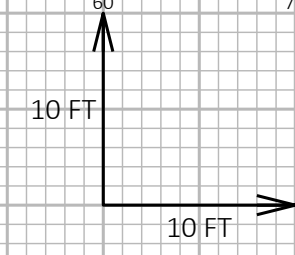
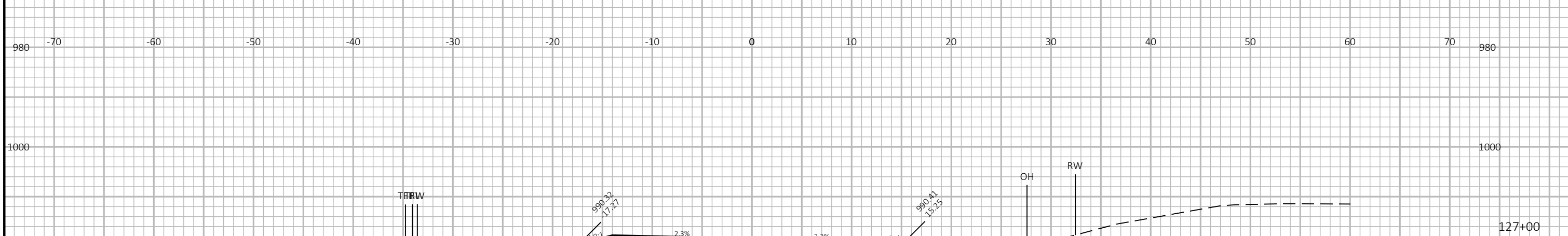
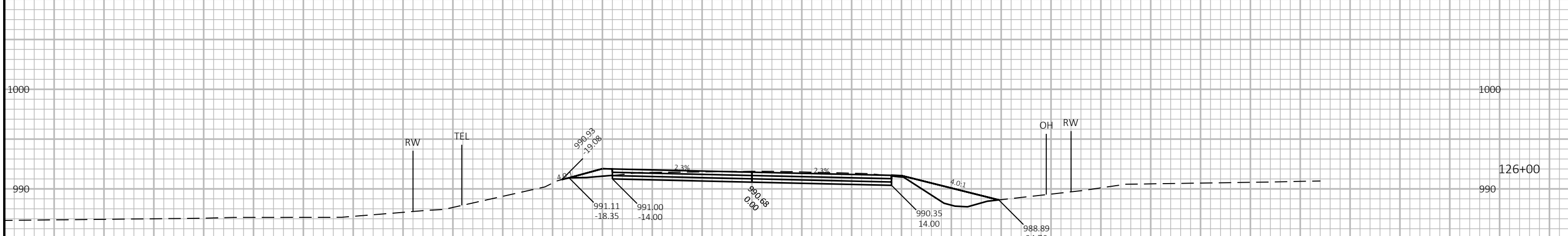
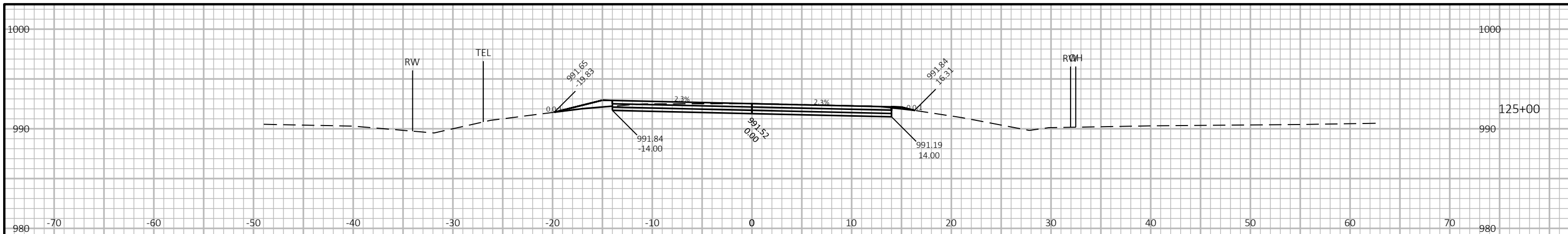
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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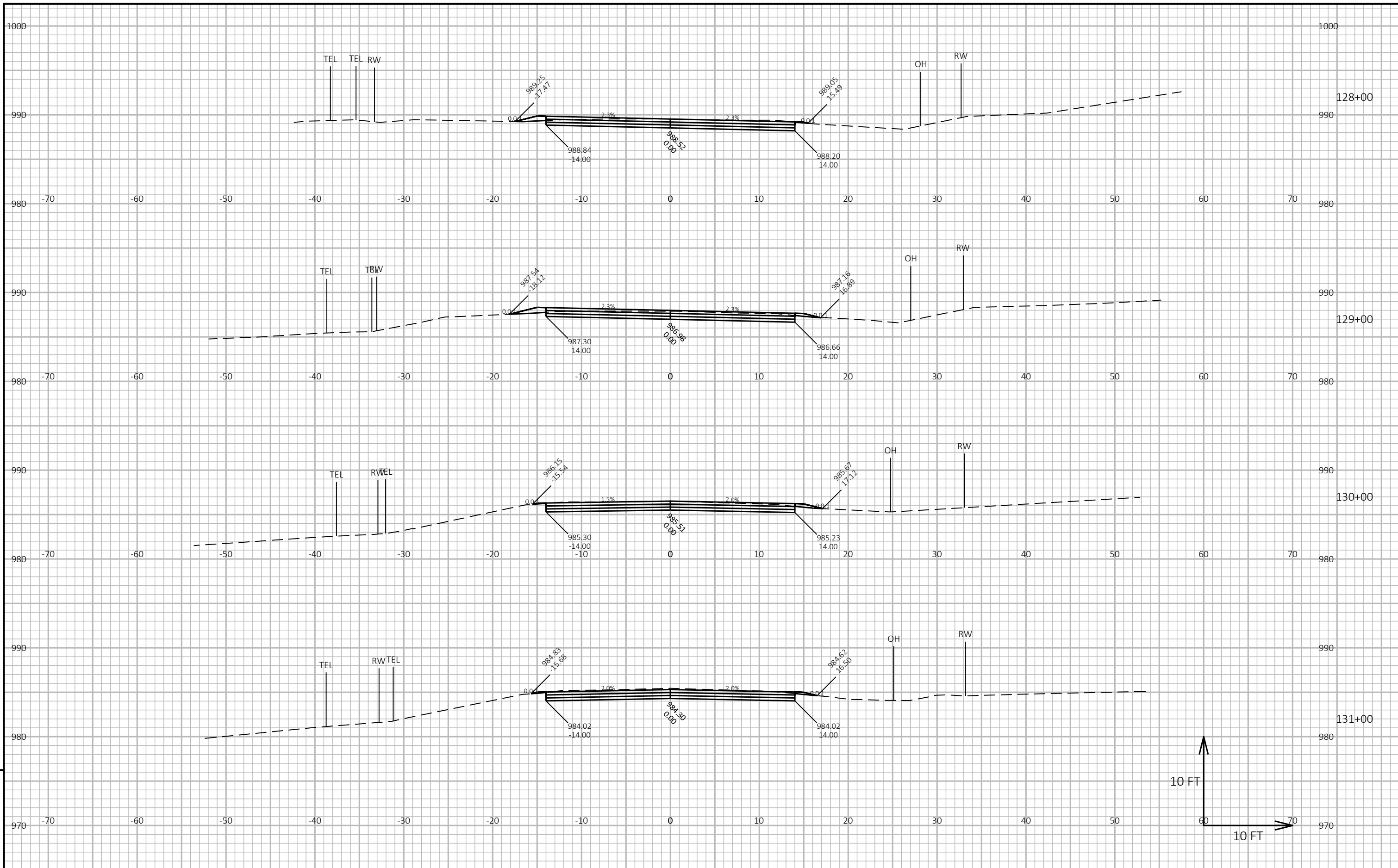
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73

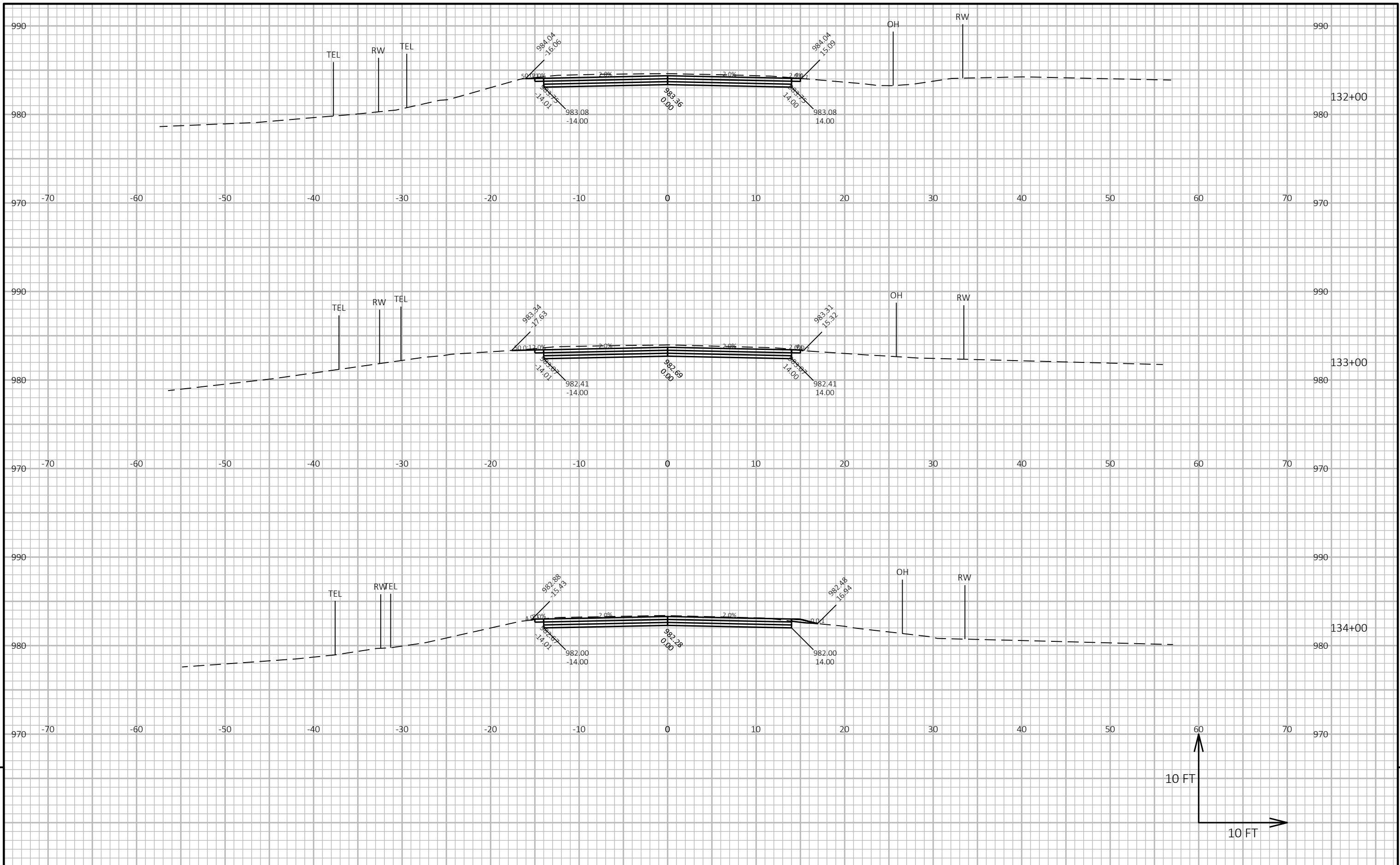
HWY: CTH HH

COUNTY: JUNEAU

CROSS SECTIONS: CTH HH

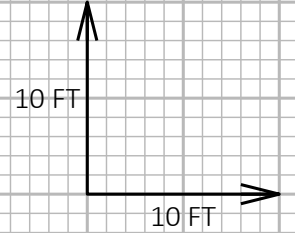
SHEET

E

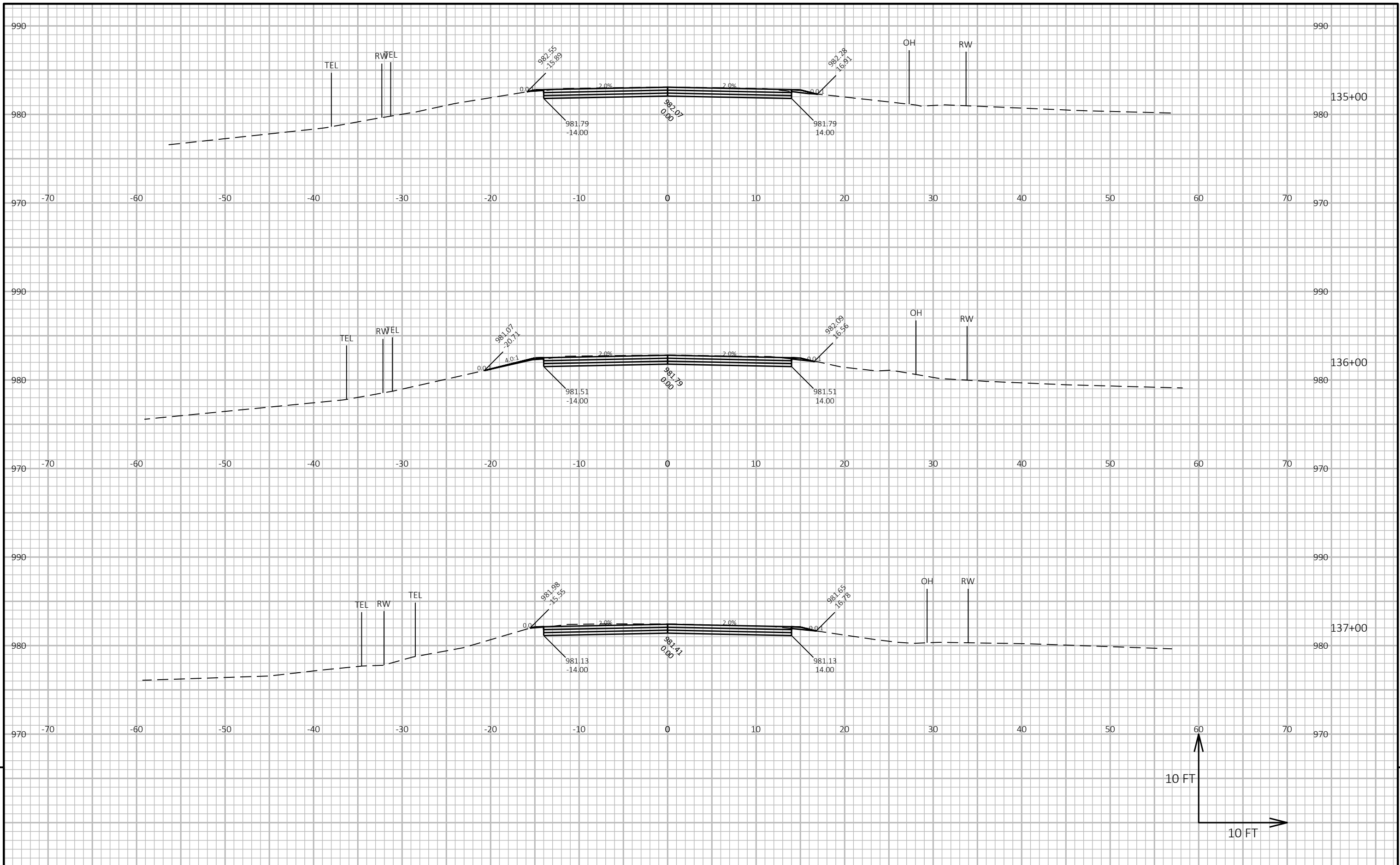


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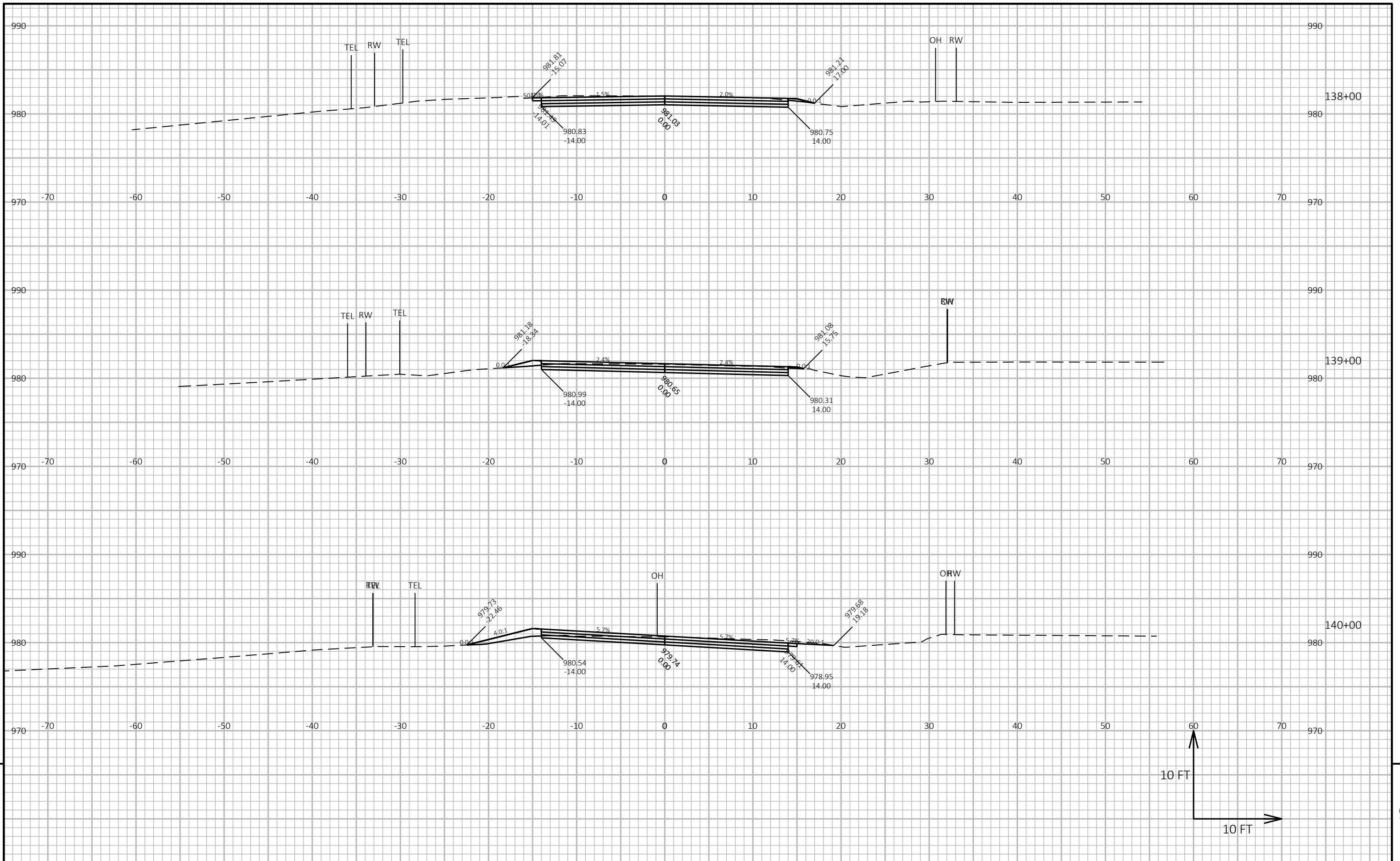
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E



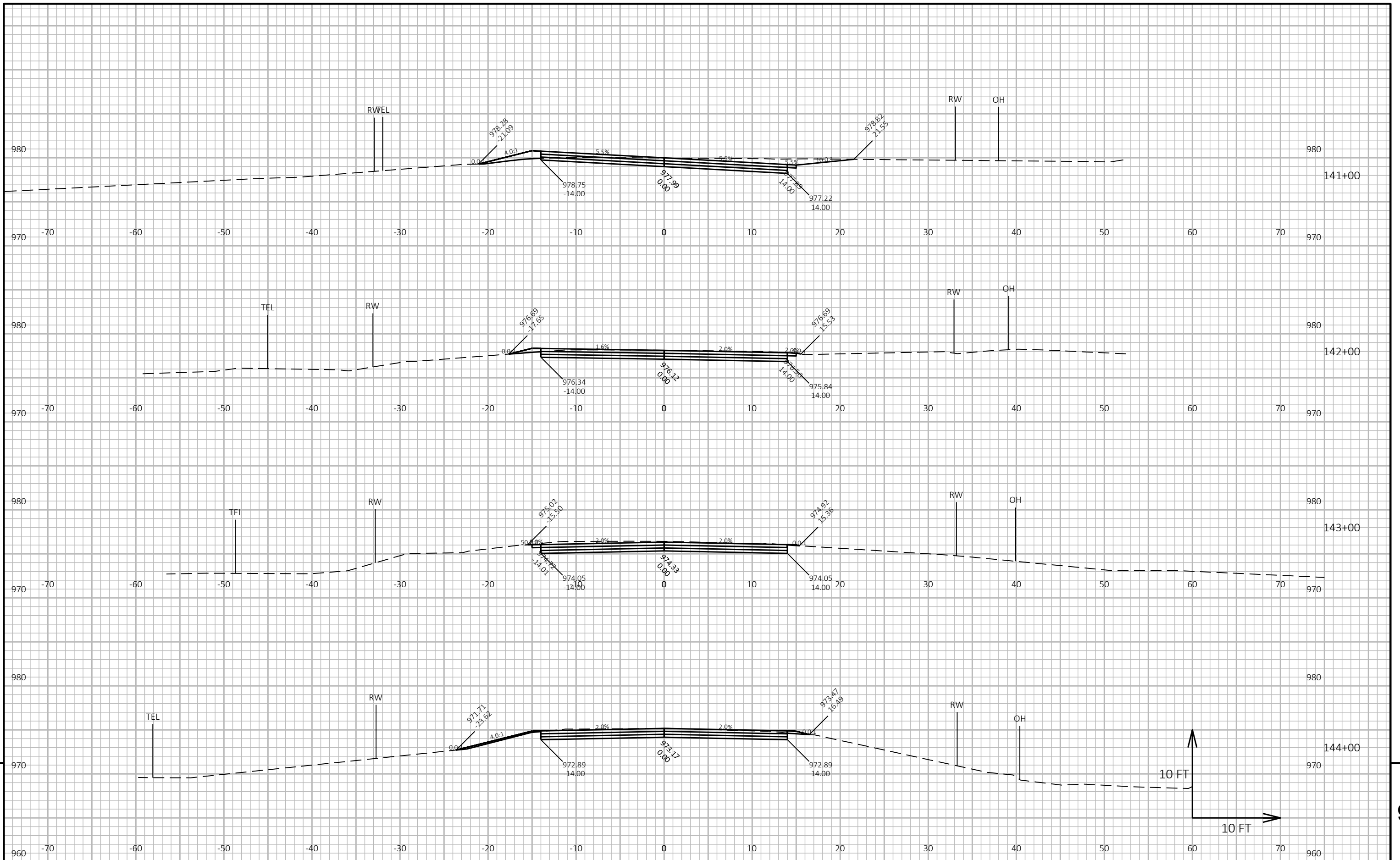
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/16/2021 8:50 AM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 44



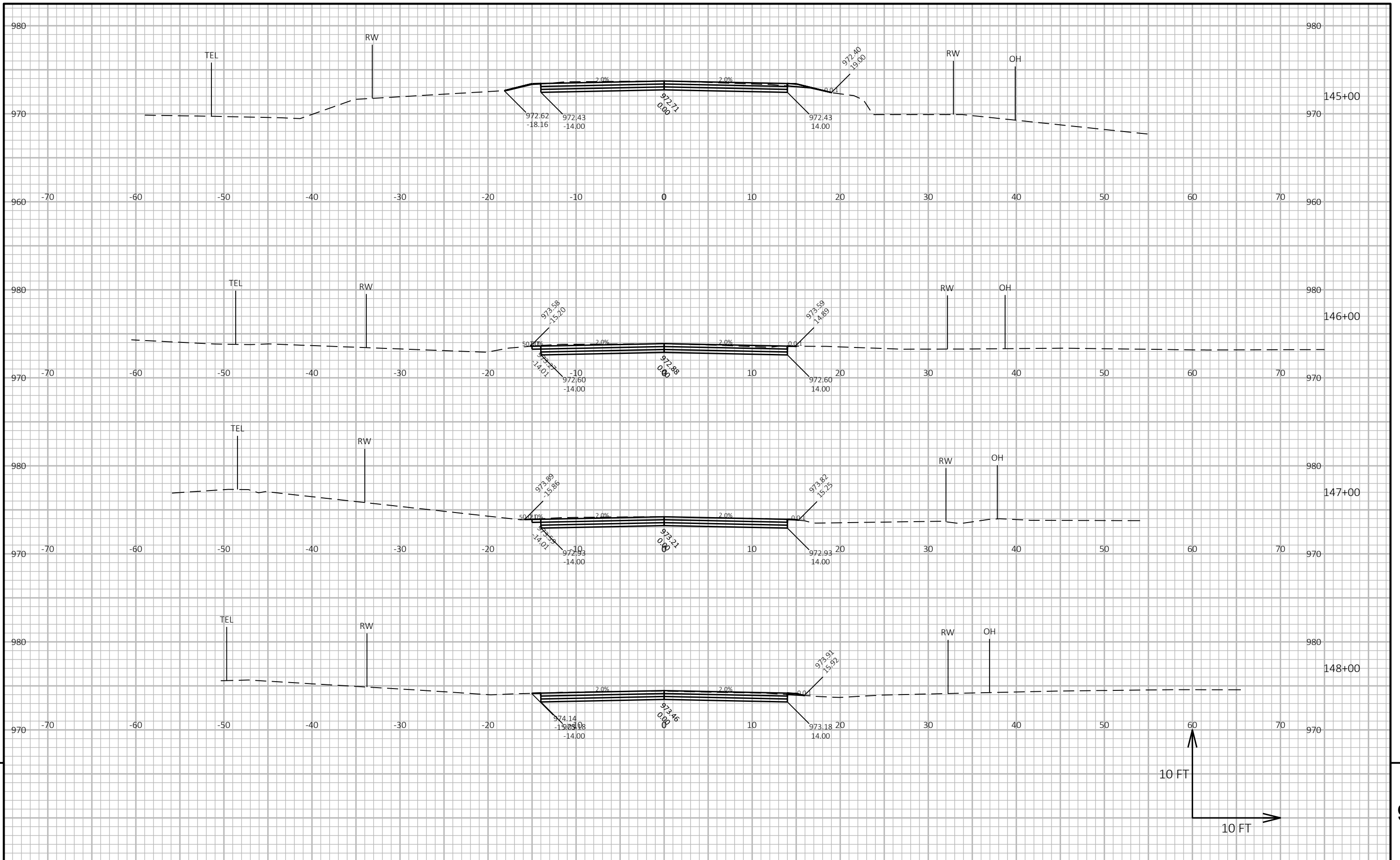
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

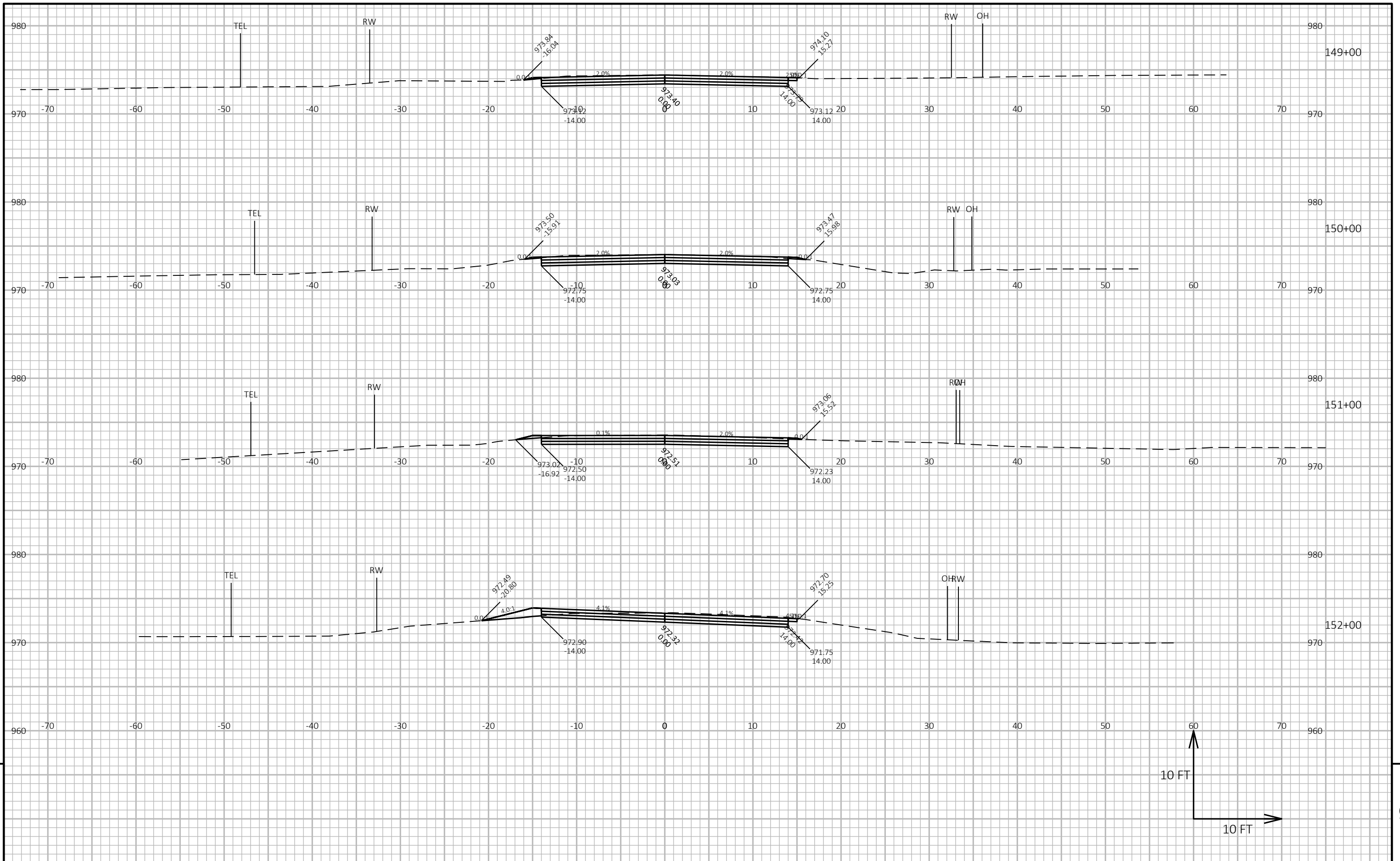
FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/16/2021 8:50 AM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

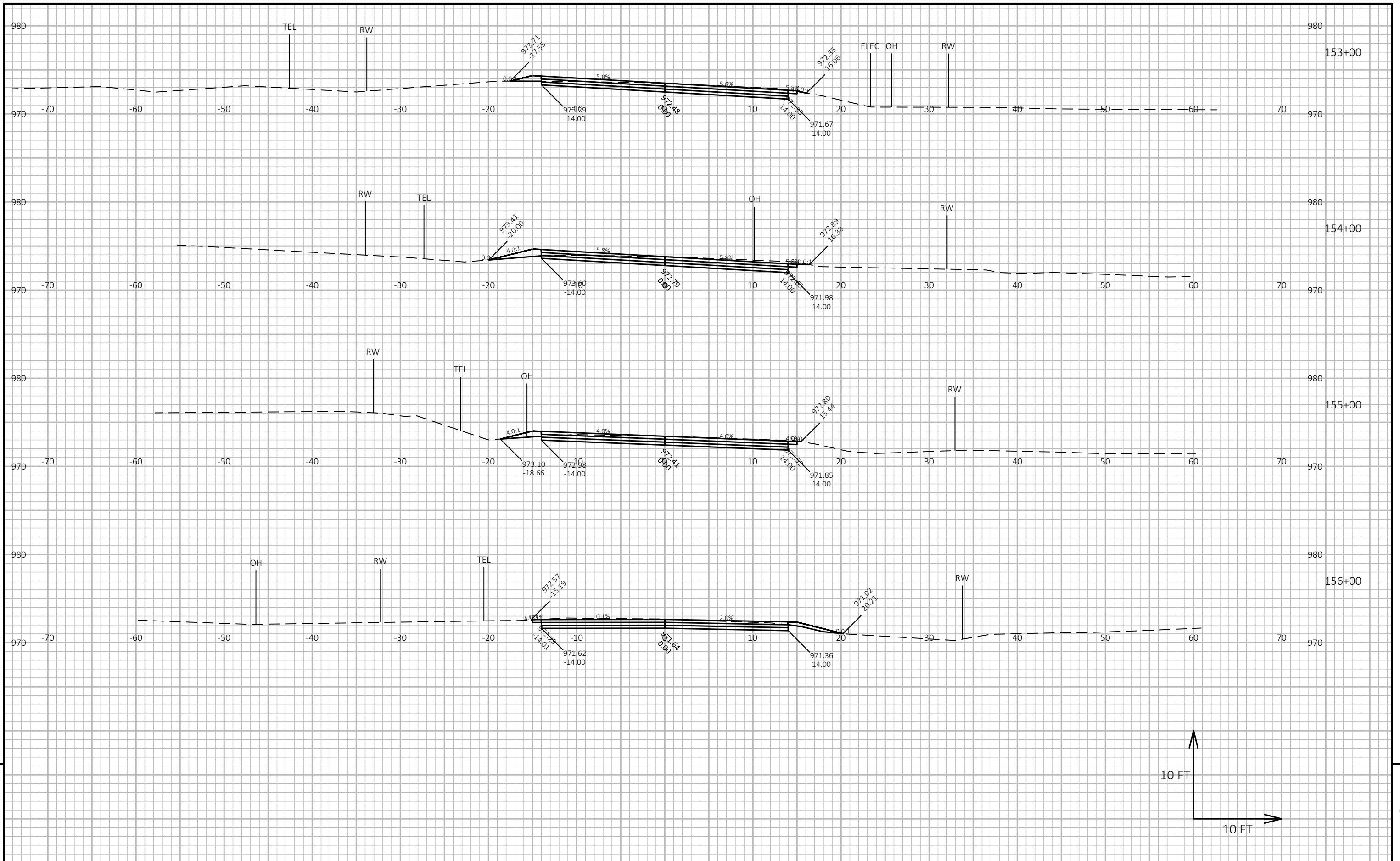
LAYOUT NAME - 45



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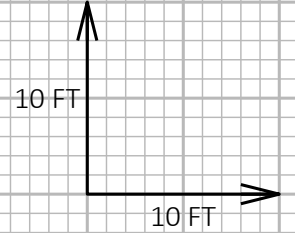
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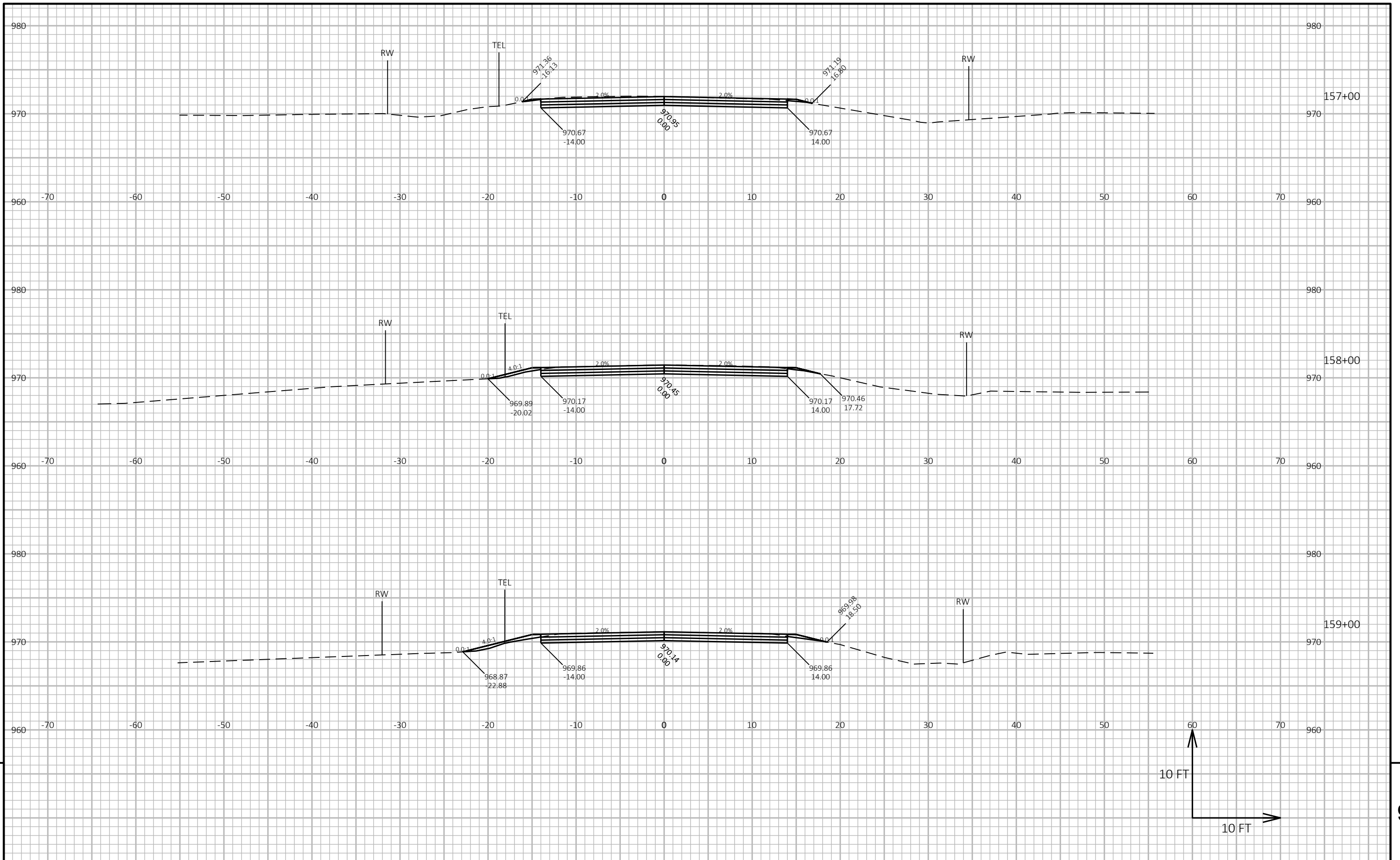
9



PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

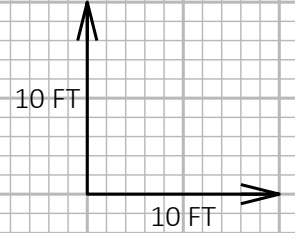
FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/16/2021 8:51 AM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

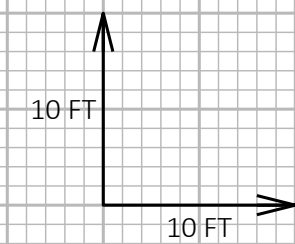
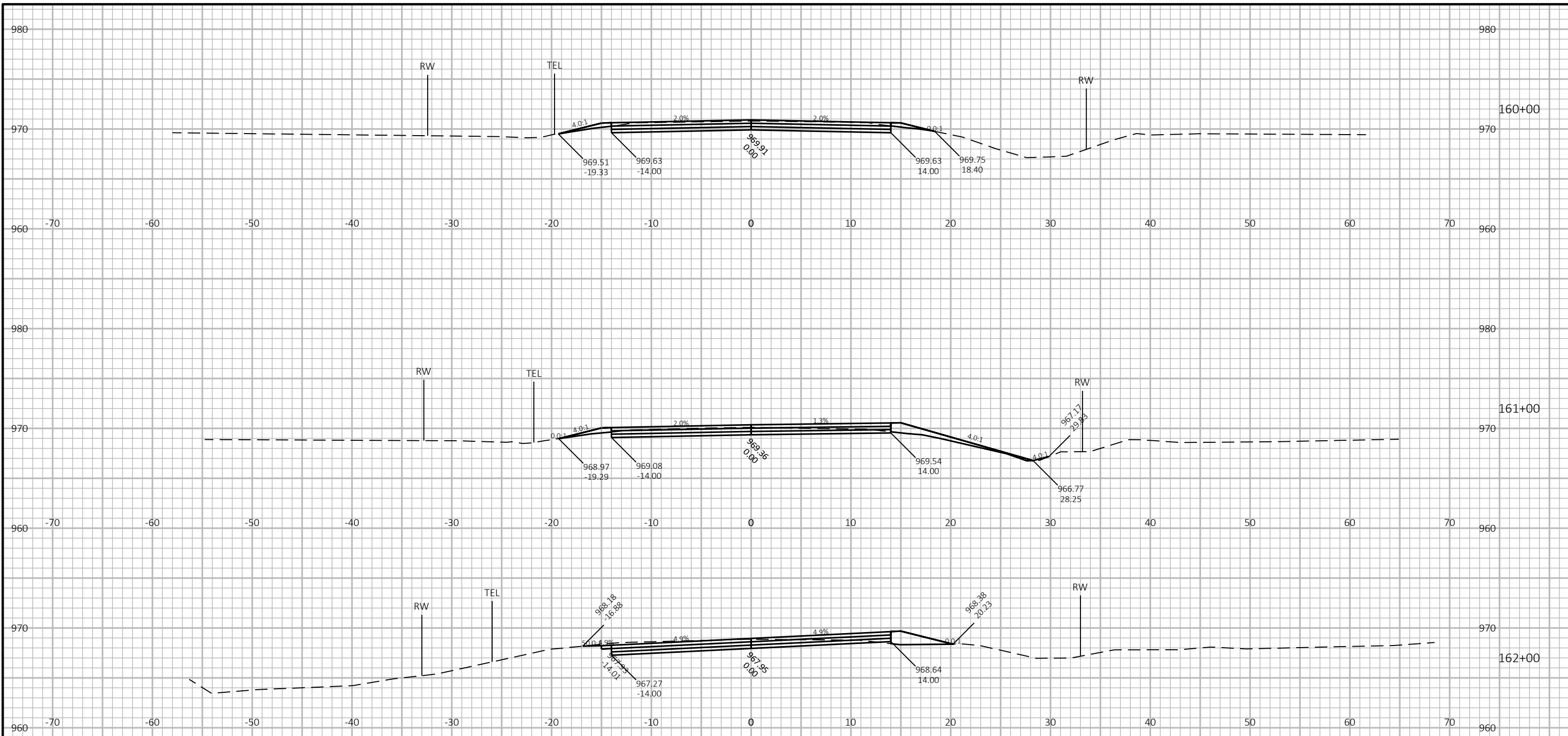
LAYOUT NAME - 48



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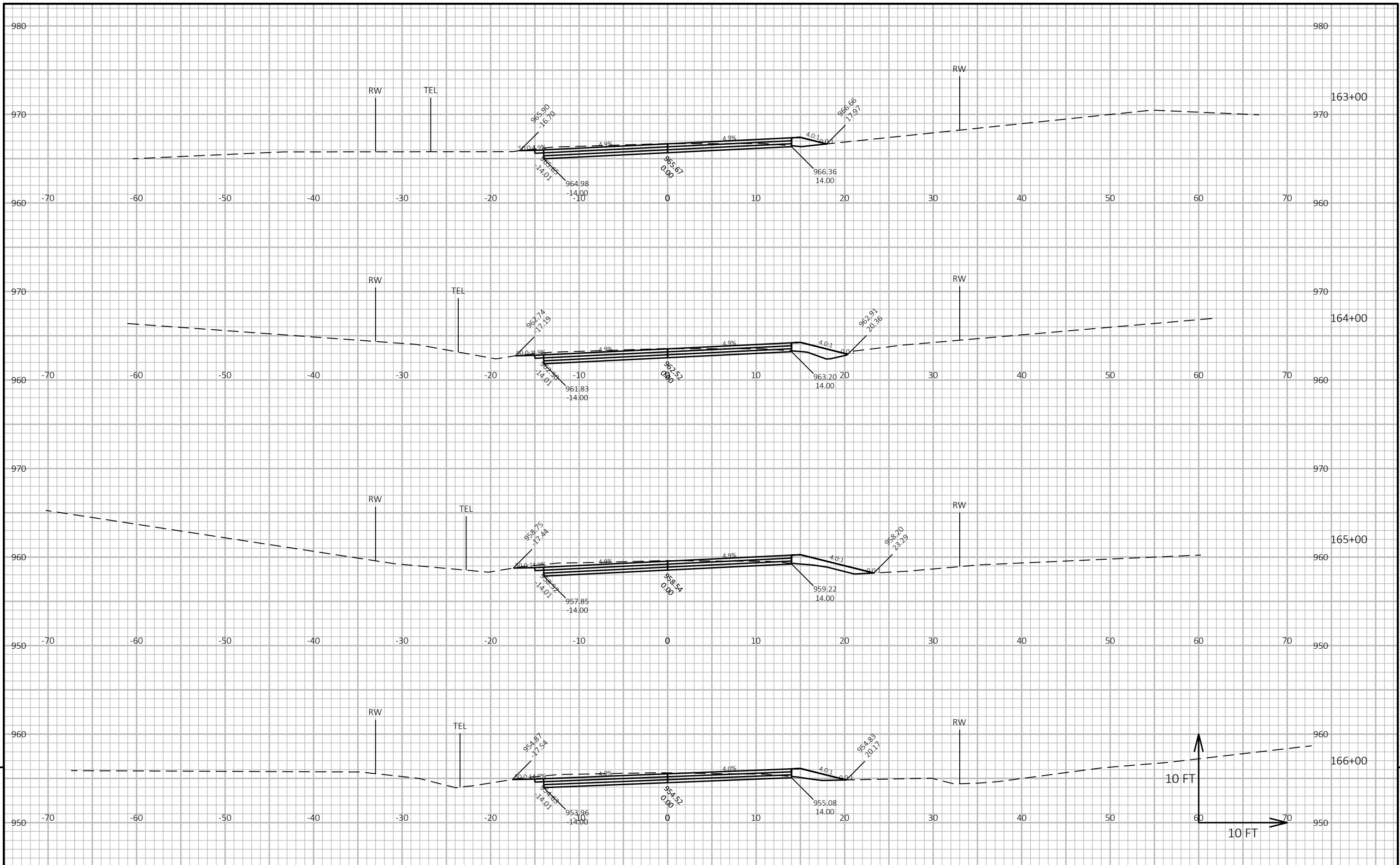




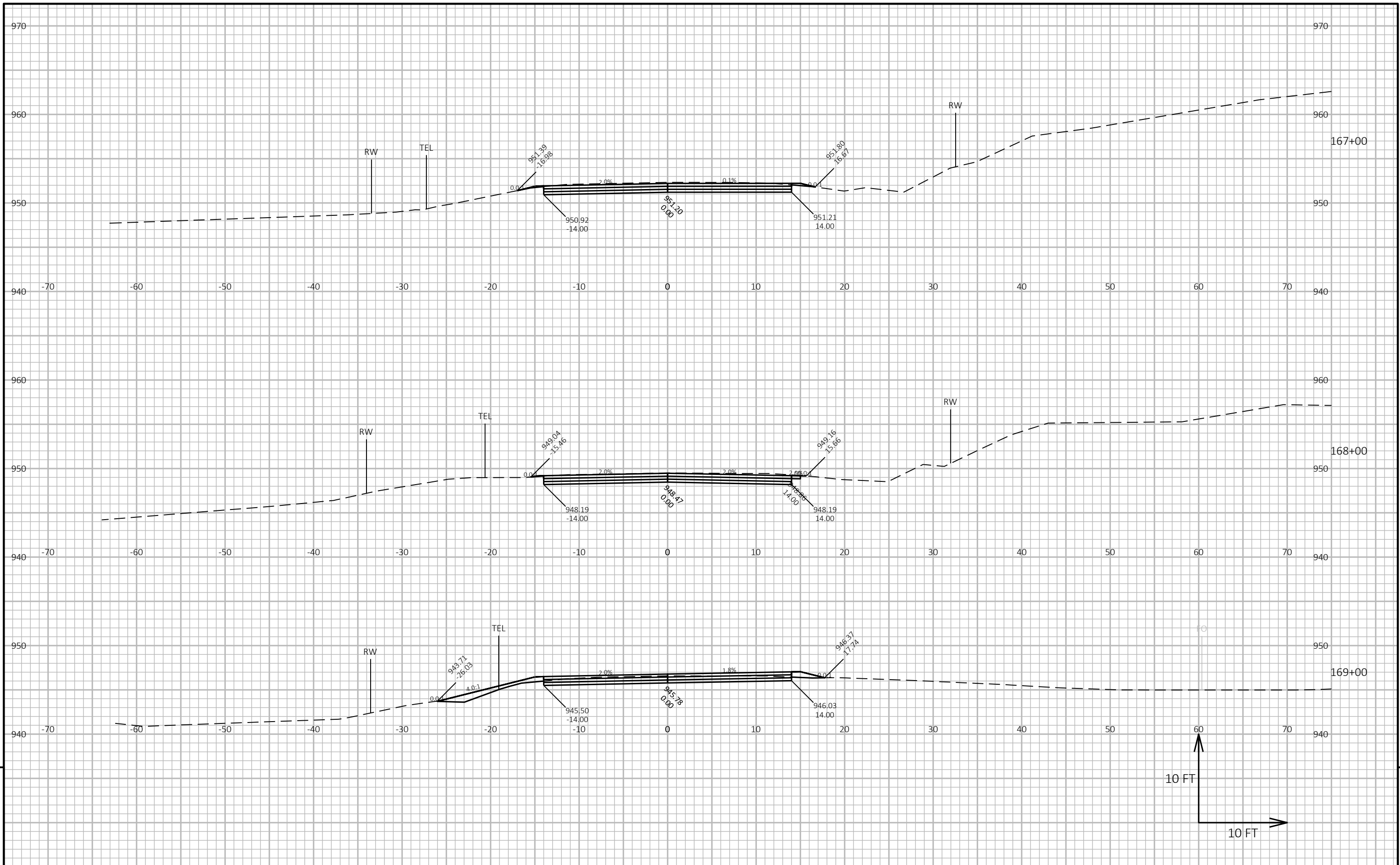
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET 9



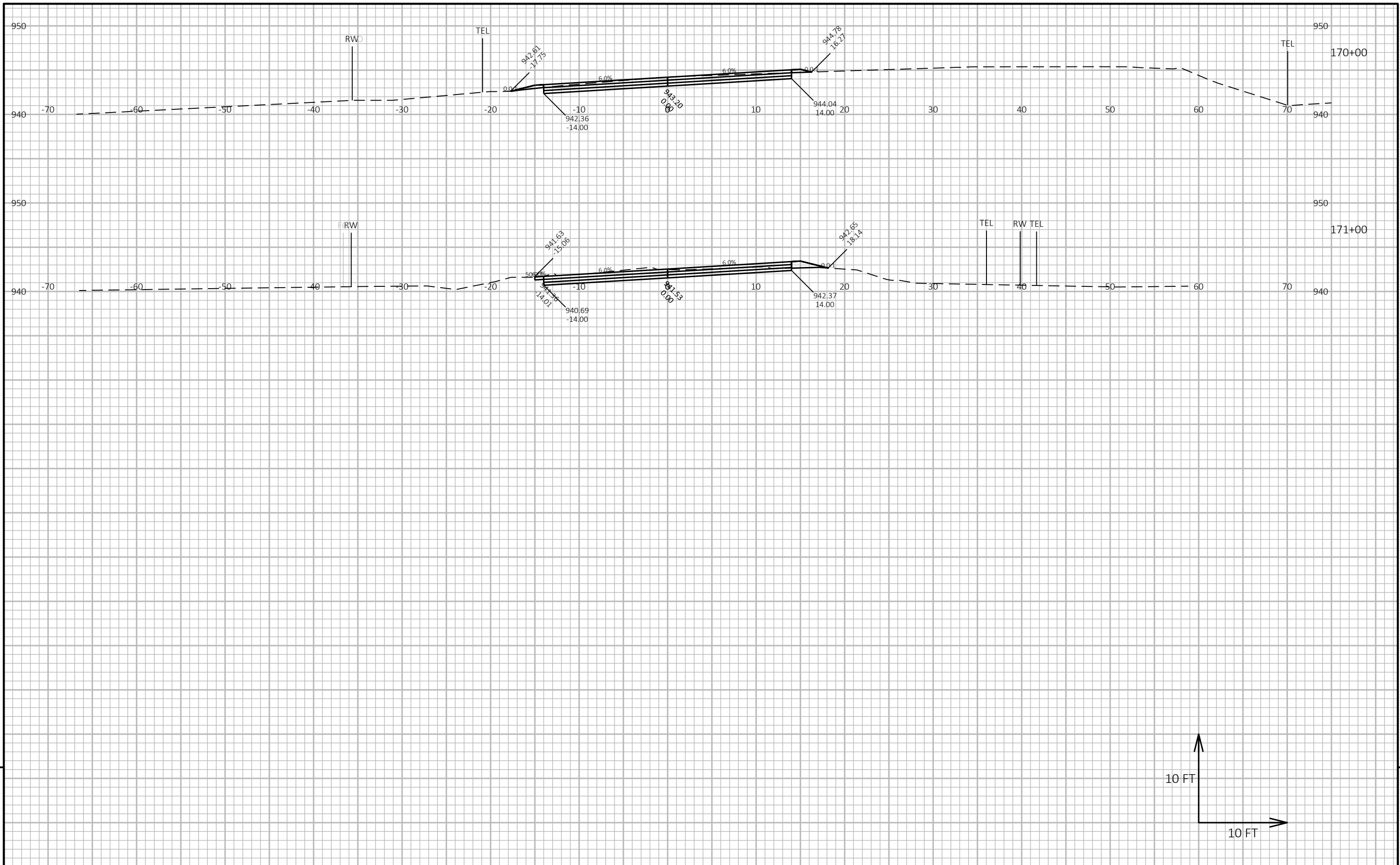
9

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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH HH SHEET E

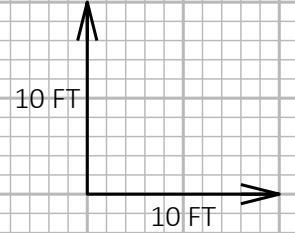
FILE NAME : P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE : 4/16/2021 8:52 AM PLOT BY : BOBBI MAXWELL PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 52

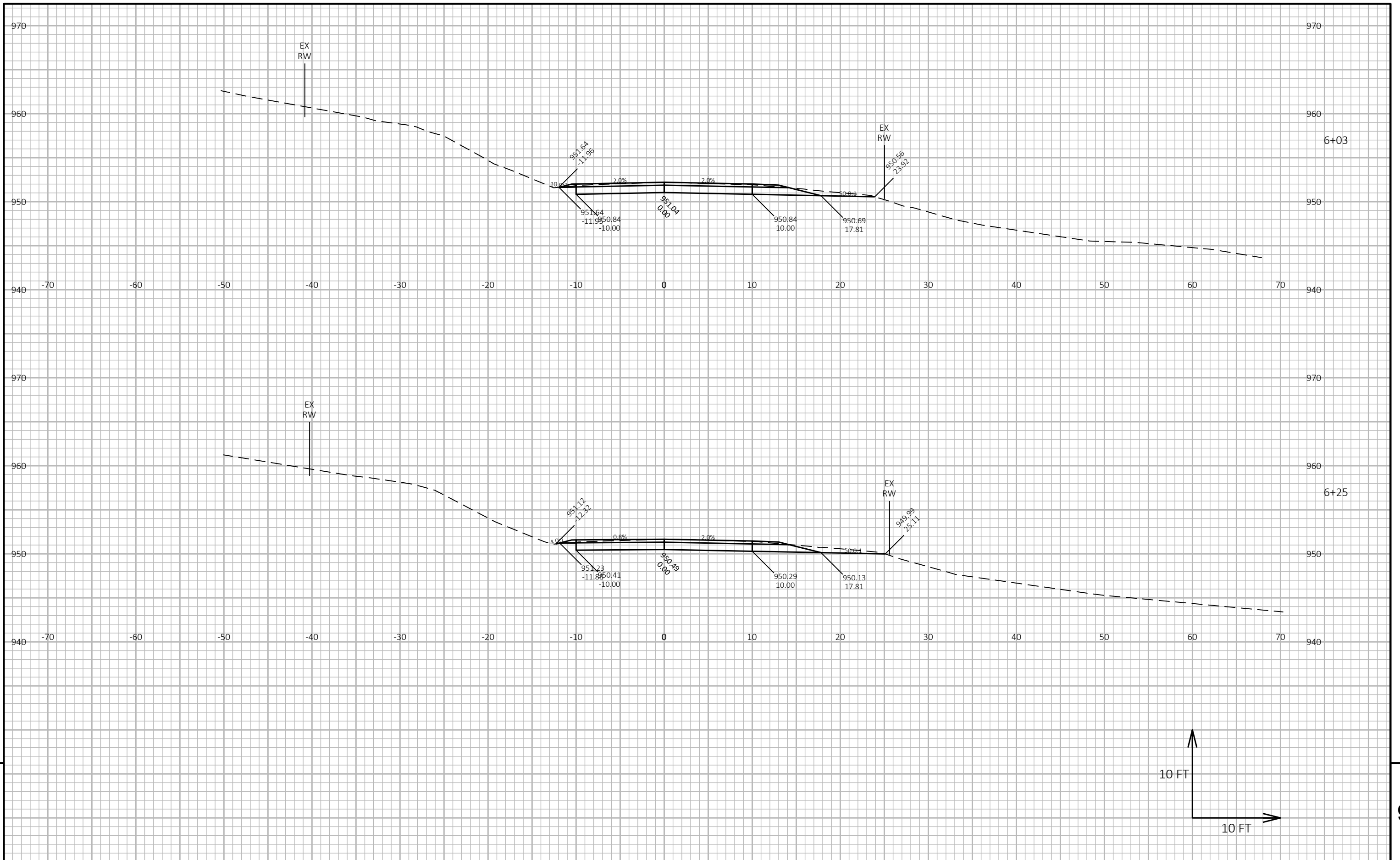


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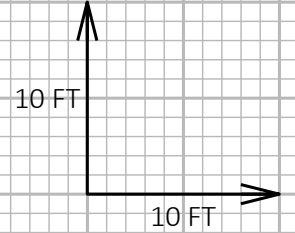


PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: CTH HH	SHEET	E
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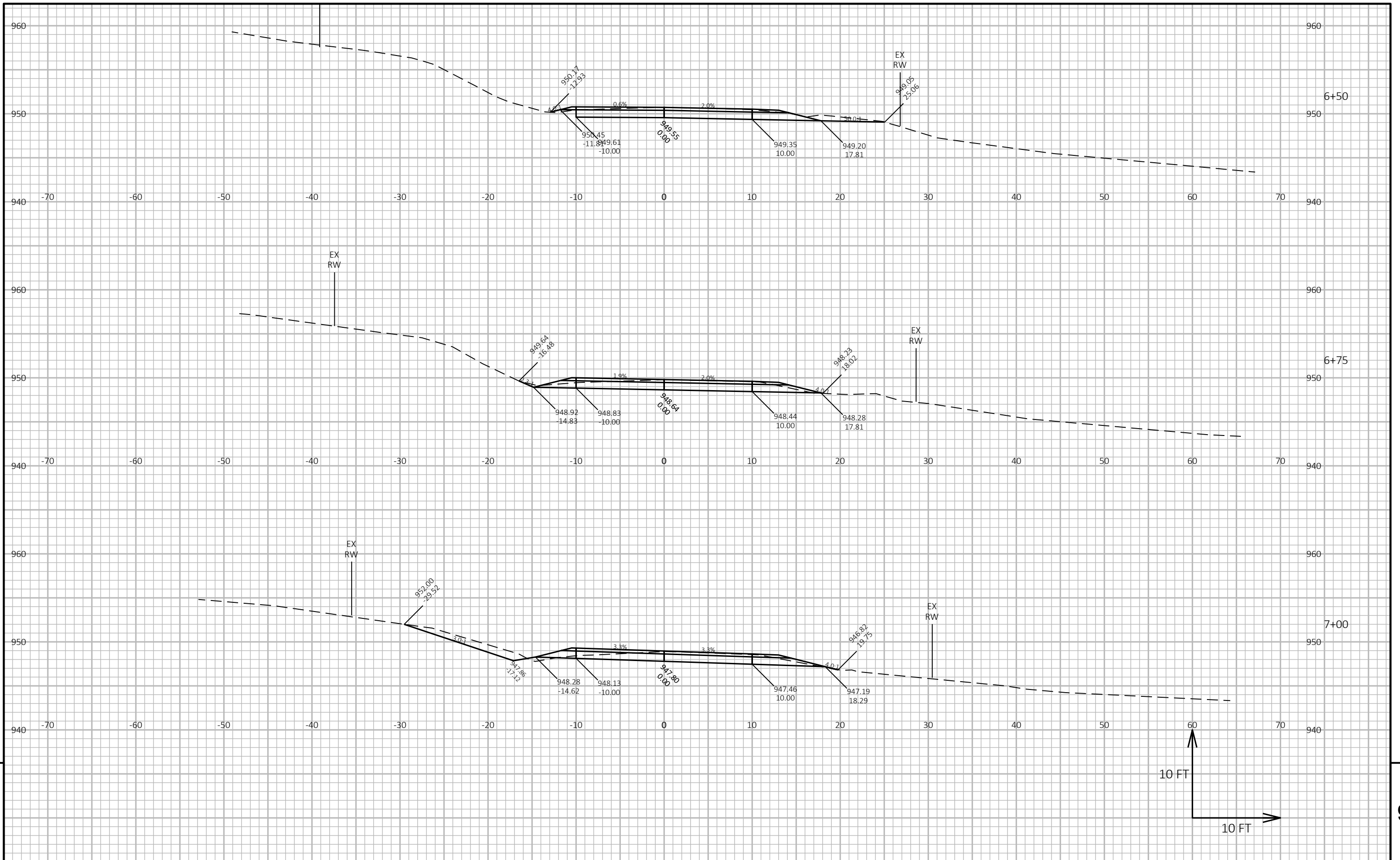


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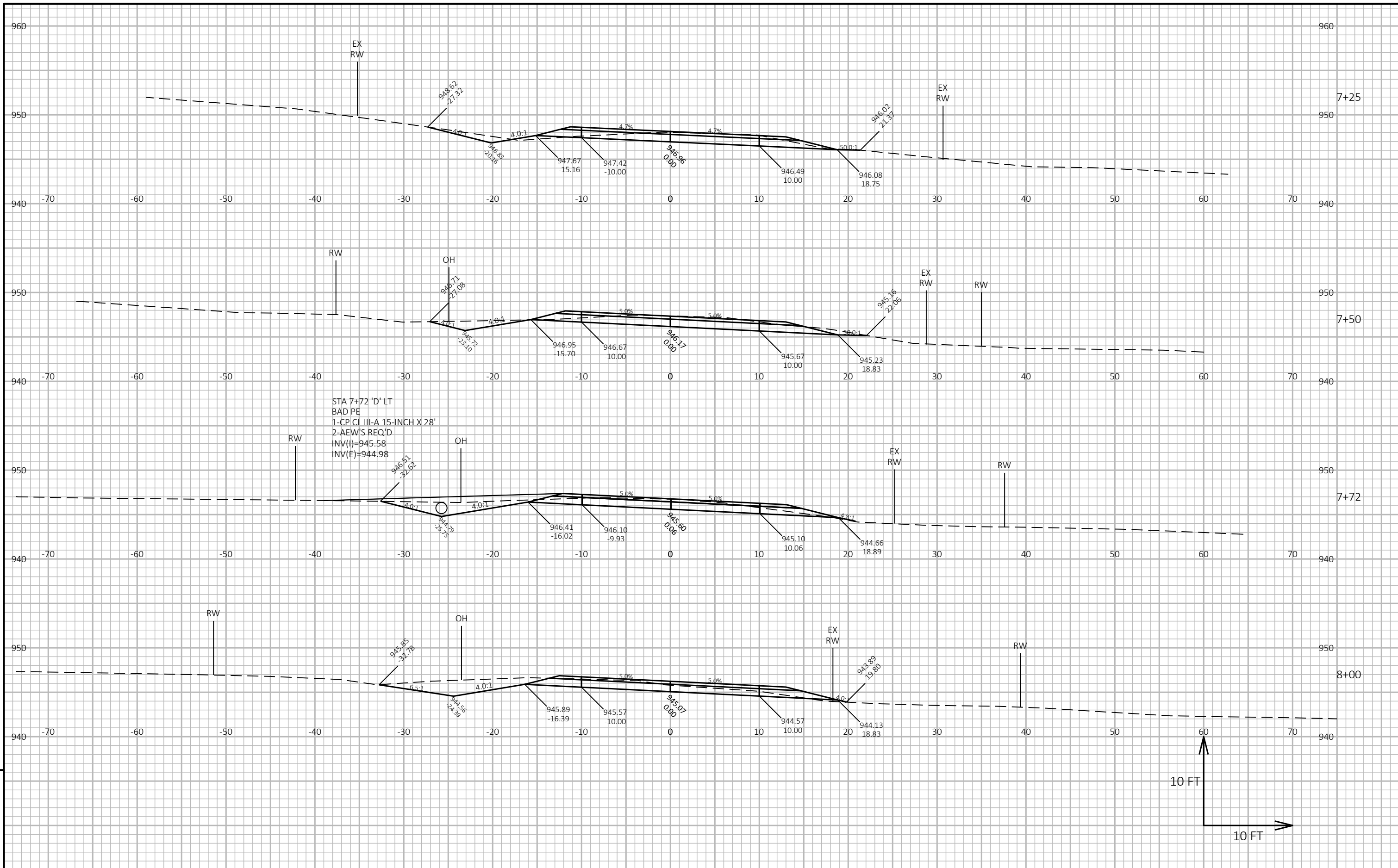
PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: DORE RD	SHEET	E
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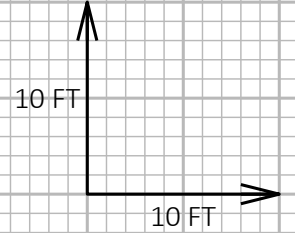
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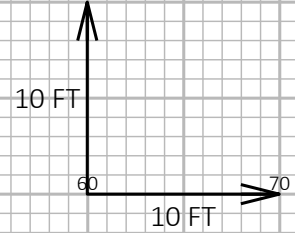
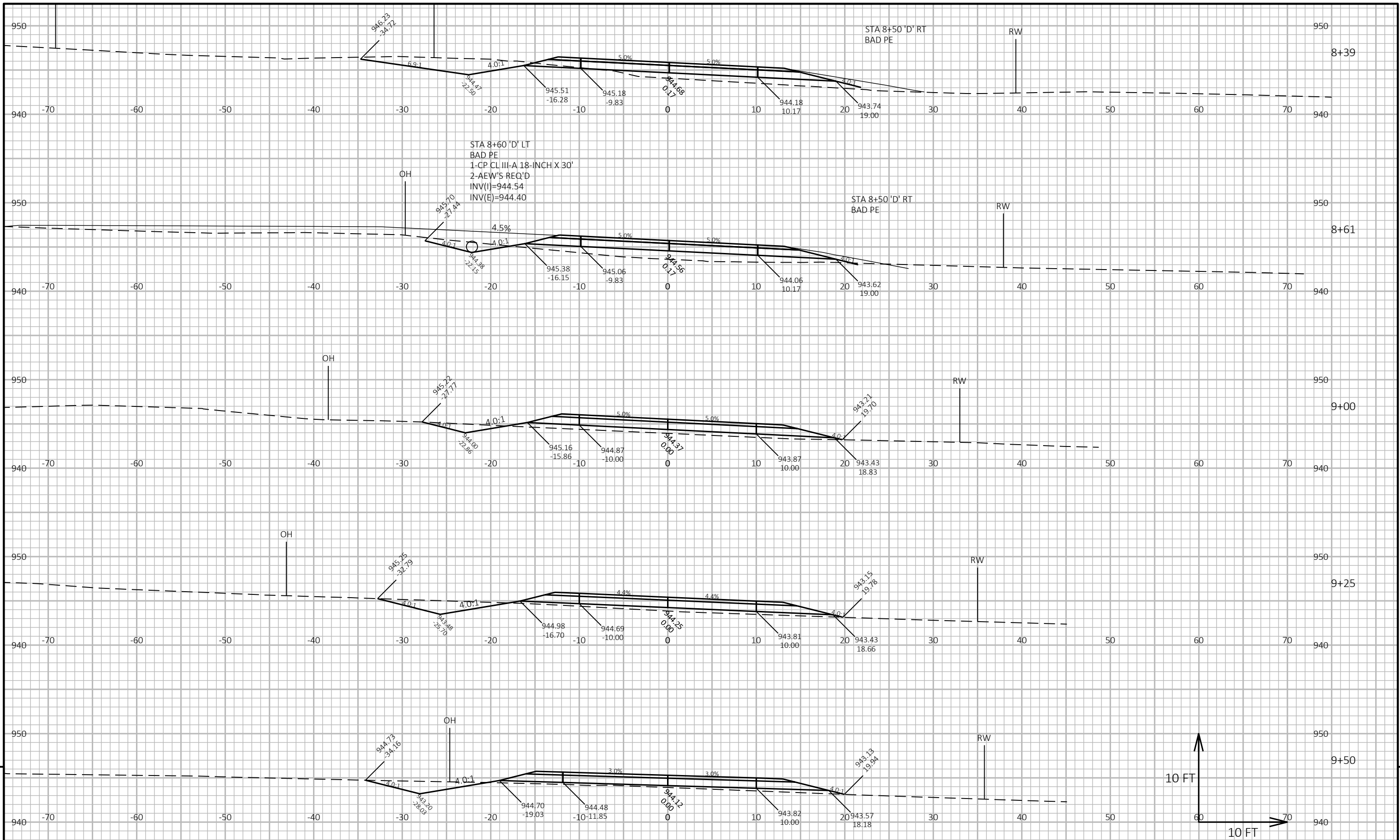
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PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: DORE RD	SHEET	E
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STA 7+72 'D' LT
 BAD PE
 1-CP CL III-A 15-INCH X 28'
 2-AEW'S REQ'D
 INV(I)=945.58
 INV(E)=944.98



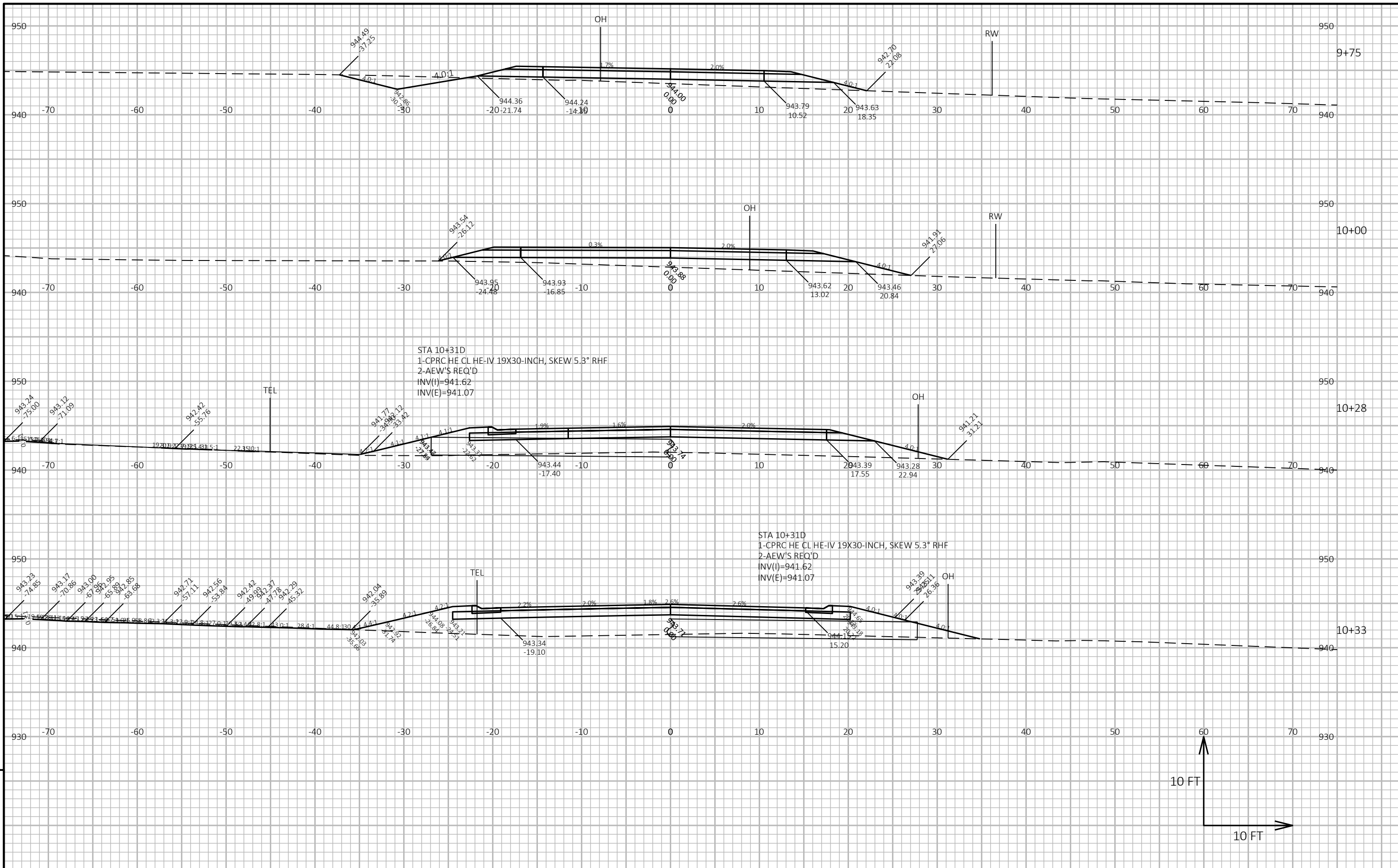


9 9

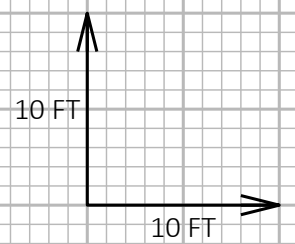
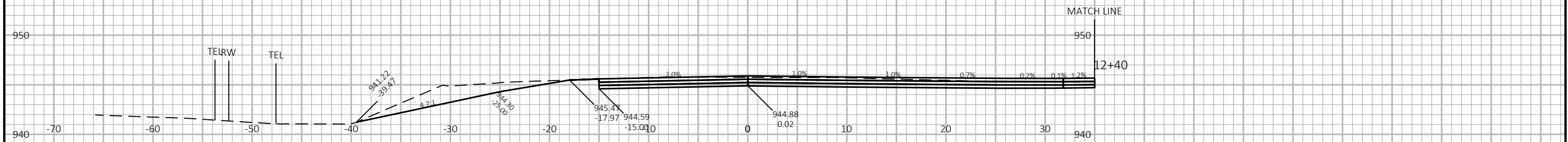
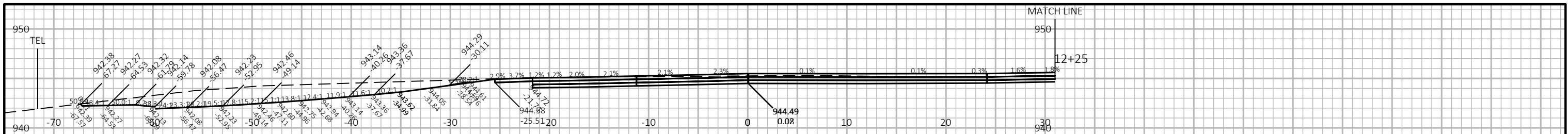
PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: DORE RD SHEET E

FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/15/2021 3:36 PM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 58 - DORE RD



PROJECT NO: 5808-00-73	HWY: CTH HH	COUNTY: JUNEAU	CROSS SECTIONS: DORE RD	SHEET 9
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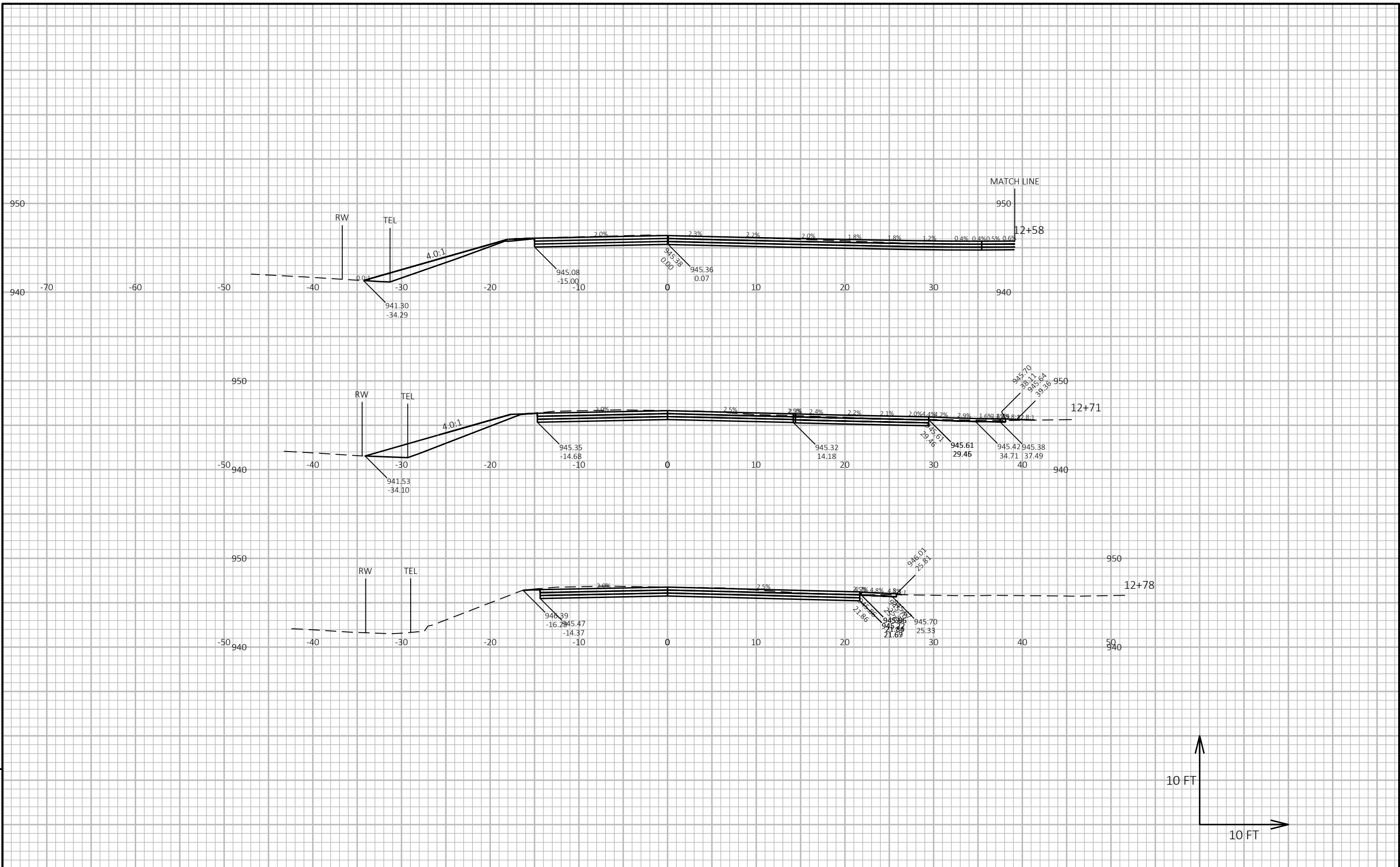


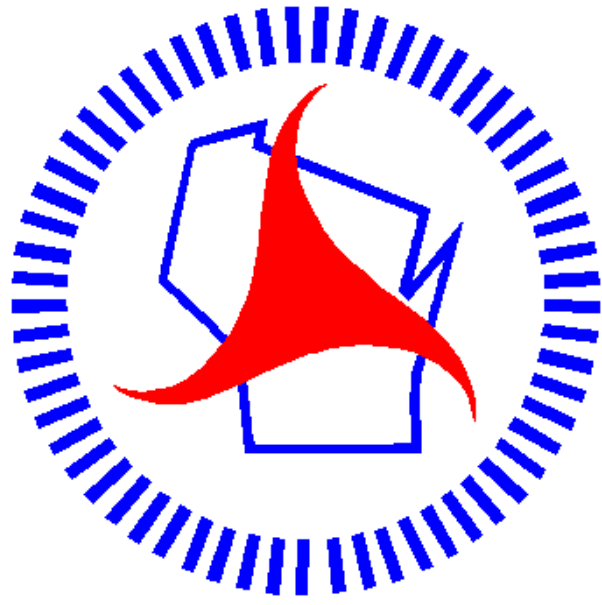
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PROJECT NO: 5808-00-73 HWY: CTH HH COUNTY: JUNEAU CROSS SECTIONS: CTH J SHEET **E**

FILE NAME: P:\135005\135605\13569\13569000\CADD\SHEETS\PLAN\XSECS\090201-XS.DWG PLOT DATE: 4/15/2021 3:51 PM PLOT BY: BOBBI MAXWELL PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 72-CTH J





Wisconsin Department of Transportation

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