LAX AUGUST 2018

PROJECT ID: 5630-06-62

06

COUNTY: SAUK

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 = 34

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5630-06-62	—	—

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

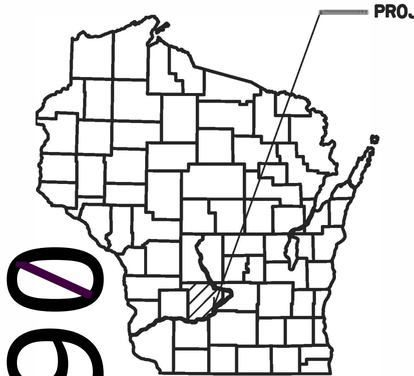
PLAN OF PROPOSED IMPROVEMENT

SAUK CITY - IH 39 ROAD

(EAGLE VIEW COURT - WEYNAND ROAD)

S.T.H. 78

SAUK COUNTY

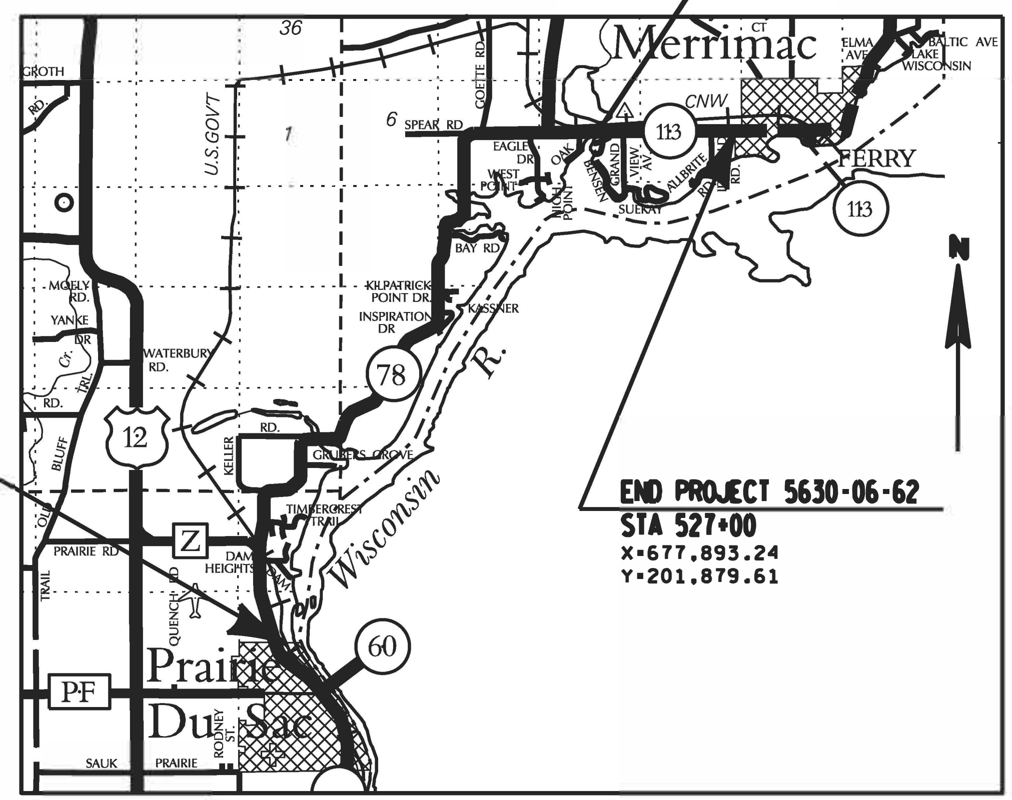


STATE PROJECT NUMBER
5630-06-62

NET EXCEPTION TO C/L
B-56-0055 STA. 453+76 - 454+34.0

R-6-E R-7-E

T-10-N T-10-N



R-6-E R-7-E

BEGIN PROJECT 5630-06-62
STA 76+00
X=653,681.88
Y=175,315.03

END PROJECT 5630-06-62
STA 527+00
X=677,893.24
Y=201,879.61

DESIGN DESIGNATION 5630-03-71 NORTH OF CTH 'Z'

A.D.T.	2004	=	2100
A.D.T.	2024	=	2790
D.H.V.	2024	=	533
D.		=	62-38
T.		=	9.3%
DESIGN SPEED		=	60 MPH
ESALS		=	550000

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) — ROCK
SPECIAL DITCH — LABEL
GRADE ELEVATION — 95.36
CULVERT (Profile View)

UTILITIES

ELECTRIC — E —
FIBER OPTIC — FO —
GAS — G —
SANITARY SEWER — SAN —
STORM SEWER — SS —
TELEPHONE — T —
WATER — W —
UTILITY PEDESTAL
POWER POLE
TELEPHONE POLE

LAYOUT
SCALE 0 1 MI.

5630-06-62 TOTAL NET LENGTH OF CENTERLINE = 8.531 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINTATE SYSTEM, SAUK COUNTY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	ANTHONY VANDER WIELEN
Project Manager	DAN KLEINERTZ
District Examiner	
District Supervisor	JOESEPH GREGAS
C.O. Examiner	

APPROVED FOR DISTRICT OFFICE

DATE: ______ (Signature)

E

STANDARD ABBREVIATIONS

AC	ACRE	LC.	LONG CHORD
AGG	AGGREGATE	LS	LUMP SUM
<	ANGLE	M.P.	MARKER POST
AE, AEW	APRON ENDWALL	MGAL	1000 GALLONS
ASPH.	ASPHALTIC	N.C.	NORMAL CROWN
A.D.T.	AVERAGE DAILY TRAFFIC	N	NORTH
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC	NB	NORTHBOUND
B.F.	BACK FACE	NOR	NORMAL
BM	BENCHMARK	NO.	NUMBER
BTWN	BETWEEN	PAV'T	PAVEMENT
CTR.	CENTER	P.L.E.	PERMANENT LIMITED EASEMENT
C/L	CENTER LINE	P.C.	POINT OF CURVATURE
Δ	CENTRAL ANGLE OR DELTA	P.I.	POINT OF INTERSECTION
C.E.	COMMERCIAL ENTRANCE	P.T.	POINT OF TANGENCY
CONST.	CONSTRUCTION	PCC	PORTLAND CEMENT CONCRETE
CMCP	CORRUGATED METAL CULVERT PIPE	P.E.	PRIVATE ENTRANCE
CMP	CORRUGATED METAL PIPE	PGL	PROFILE GRADE LINE
CO.	COUNTY	P.L.	PROPERTY LINE
CTH	COUNTY TRUNK HIGHWAY	R	RADIUS OR RANGE
CR.	CREEK	R/L	REFERENCE LINE
CABC	CRUSHED AGGREGATE BASE COURSE	R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
CY	CUBIC YARD	REQ'D	REQUIRED
CP	CONTROL POINT OR CULVERT PIPE	RT	RIGHT
C&G	CURB AND GUTTER	R.H.F.	RIGHT HAND FORWARD
D	DEGREE OF CURVE	R/W	RIGHT OF WAY
D.H.V.	DESIGN HOURLY VOLUME	RD.	ROAD
DIA.	DIAMETER	SHLD.	SHOULDER(S)
D.D.	DIRECTIONAL DISTRIBUTION	SHR.	SHRINKAGE
DISCH.	DISCHARGE	S	SOUTH
DMS	DYNAMIC MESSAGE SIGN	SB	SOUTHBOUND
EA	EACH	S.F.	SQUARE FOOT (FEET)
E	EAST	SDD	STANDARD DETAIL DRAWING(S)
EB	EASTBOUND	STH	STATE TRUNK HIGHWAY
ELEC.	ELECTRIC(AL), ELEC. CABLE	STA.	STATION
EL., ELEV.	ELEVATION	S.E.	SUPERELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS	S/L	SURVEY LINE
EXC.	EXCAVATION	SYM	SYMMETRICAL
EXIST	EXISTING	T.	PERCENT TRUCKS
F.F.	FACE TO FACE	TEL.	TELEPHONE
FERT.	FERTILIZER	TEMP.	TEMPORARY
F.E.	FIELD ENTRANCE	T.L.E.	TEMPORARY LIMITED EASEMENT
F/L, F.L.	FLOW LINE	T.O.C.	TOP OF CURB
GALV.	GALVANIZE	TYP	TYPICAL
H.S.	HIGH STRENGTH	UNCL.	UNCLASSIFIED
CWT	HUNDRED WEIGHT	U.G.	UNDERGROUND (CABLE)
INL	INLET	VAR	VARIABLE
INTER.	INTERSECTION	V.C.	VERTICAL CURVE
IH	INTERSTATE HIGHWAY	V.P.C.	VERTICAL POINT OF CURVATURE
JT.	JOINT	V.P.I.	VERTICAL POINT OF INTERSECTION
LT	LEFT	V.P.T.	VERTICAL POINT OF TANGENCY
L.H.F.	LEFT HAND FORWARD	Wt.	WEIGHT
L.	LENGTH OF CURVE	W	WEST
L.F.	LINEAR FOOT(FEET)	WB	WESTBOUND

GENERAL NOTES

- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES.
- RIGHT TURN LANES MAY HAVE A DIFFERENT SUPER ELEVATION TRANSITION THAN MAINLINE AND THE INTENT IS TO MATCH EXISTING TRANSITIONS (MILL 1 3/4" AND PAVE 1 3/4")

DIGGERS HOTLINE

Dial 811 or (800) 242-8511

www.DiggersHotline.com

DNR LIAISON

Andrew Barta
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
WISCONSIN DEPT. OF NATURAL RESOURCES
SC REGION HQ
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
608-275-3308
andrew.barta@wisconsin.gov

DESIGN CONTACTS

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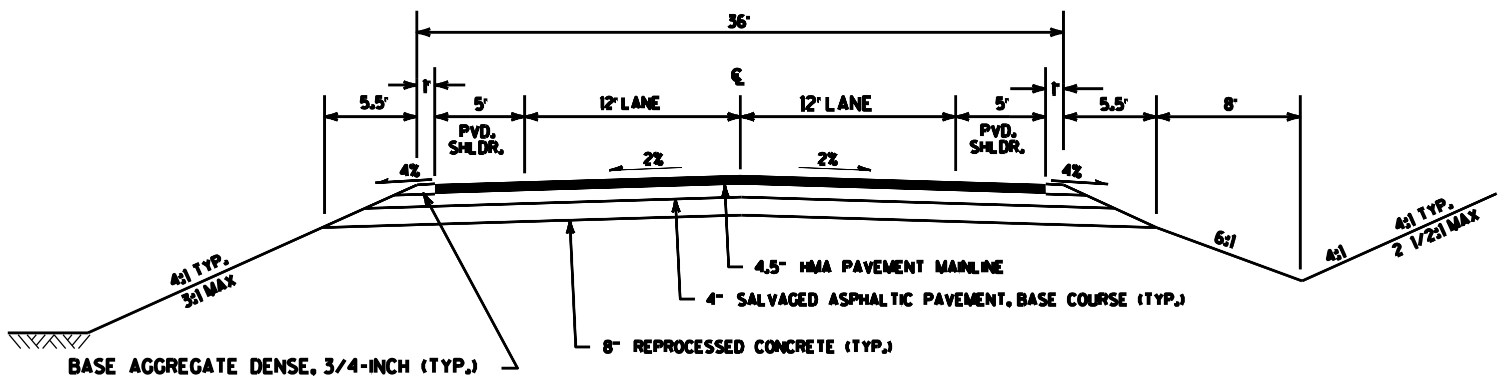
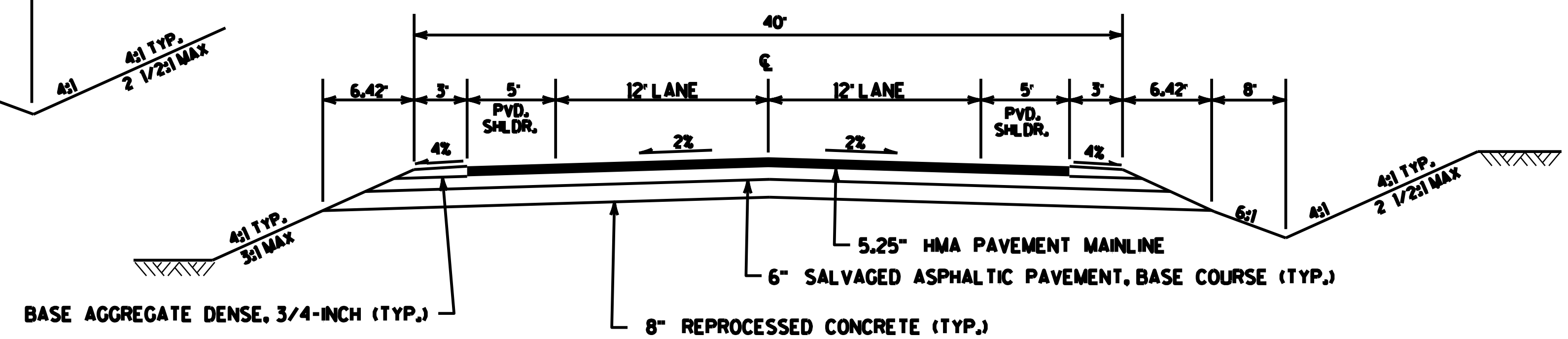
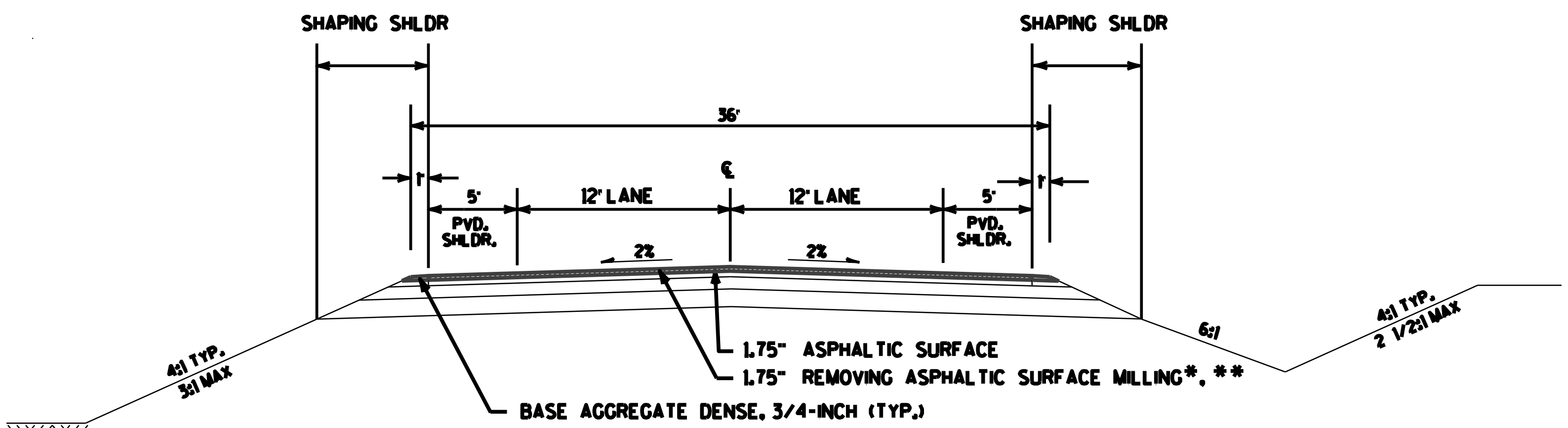
anthony.vanderwielen@dot.wi.gov



EXISTING FINISHED RURAL SECTION
STH 78
STA. 125+00 - 527+00

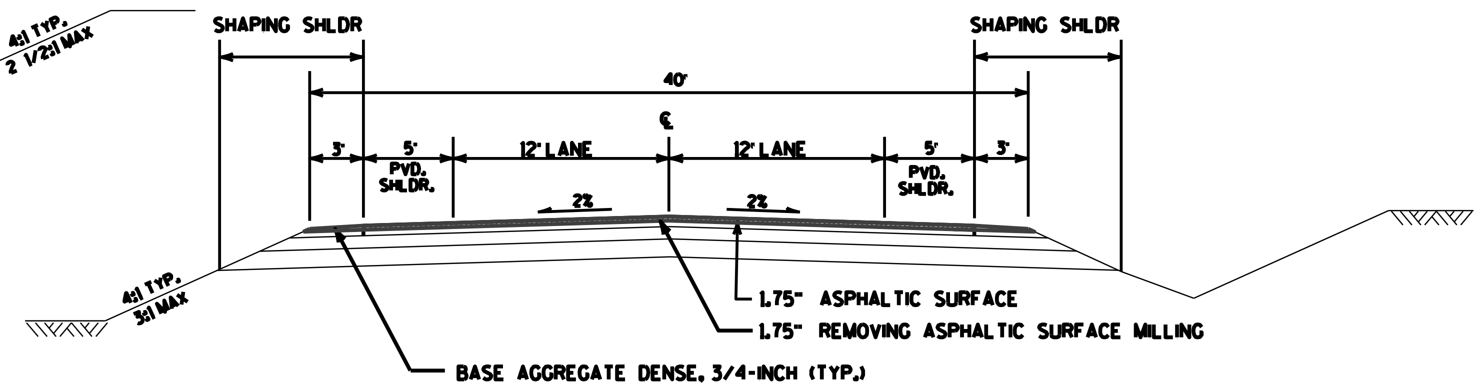


EXISTING FINISHED RURAL SECTION
STH 78
STA. 76+00 - 125+00

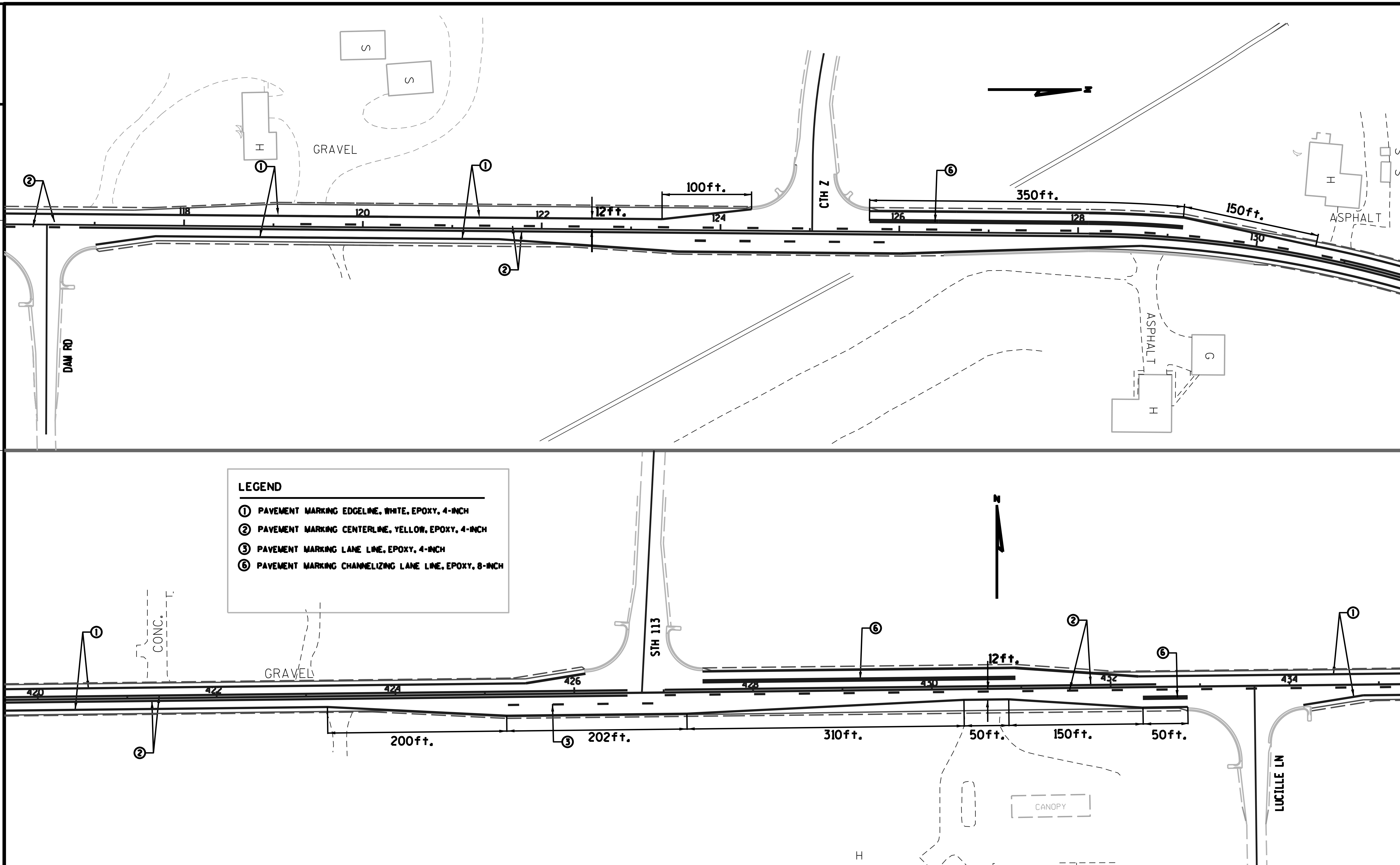


TYPICAL FINISHED RURAL SECTION
STH 78
STA. 125+00 - 527+00

* MILL TO FLAG OF EXISTING MAINLINE CURB & GUTTER
** MILL TO WITHIN 1 FT. OF FACE OF EXISTING GUARDRAIL



TYPICAL FINISHED RURAL SECTION
STH 78
STA. 76+00 - 125+00



PROJECT NO:5630-06-62	HWY:STH 78	COUNTY:SAUK	PAVEMENT MARKING DETAILS (SPECIAL)	SHEET 4	E

Estimate Of Quantities

5630-06-62

Line	Item	Item Description	Unit	Total	Qty
0002	204.0120	Removing Asphaltic Surface Milling	SY	180,045.000	180,045.000
0004	213.0100	Finishing Roadway (project) 01. 5630-06-62	EACH	1.000	1.000
0006	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,817.000	1,817.000
0008	305.0500	Shaping Shoulders	STA	824.000	824.000
0010	450.4000	HMA Cold Weather Paving	TON	5,041.000	5,041.000
0012	455.0605	Tack Coat	GAL	13,503.000	13,503.000
0014	465.0105	Asphaltic Surface	TON	17,644.000	17,644.000
0016	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5630-06-62	EACH	1.000	1.000
0018	619.1000	Mobilization	EACH	1.000	1.000
0020	624.0100	Water	MGAL	12.000	12.000
0022	642.5201	Field Office Type C	EACH	1.000	1.000
0024	643.0300	Traffic Control Drums	DAY	300.000	300.000
0026	643.0900	Traffic Control Signs	DAY	2,520.000	2,520.000
0028	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0030	643.5000	Traffic Control	EACH	1.000	1.000
0032	646.1020	Marking Line Epoxy 4-Inch	LF	86,994.000	86,994.000
0034	646.3020	Marking Line Epoxy 8-Inch	LF	3,880.000	3,880.000
0036	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	69,444.000	69,444.000
0038	649.0105	Temporary Marking Line Paint 4-Inch	LF	66,178.000	66,178.000
0040	650.8000	Construction Staking Resurfacing Reference	LF	45,100.000	45,100.000
0042	690.0150	Sawing Asphalt	LF	68.000	68.000

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REMOVING ASPHALTIC SURFACE MILLING

STATION	TO	STATION	LOCATION	204.0120 SY	REMARKS
76+00	-	453+75	ML	142706	STH 78 (34 ft)
454+35	-	527+00	ML	27446	STH 78 (34 ft)
80+45	-	84+22	RT	250	Culvers CE
95+00	-	100+22	RT	357	North Ridge Drive
95+70		101+73	LT	569	North Ridge Drive Bypass Lane
112+84	-	117+69	RT	329	Dam Road
117+44	-	130+05	LT	951	CTH Z
122+19	-	128+00	RT	370	CTH Z Bypass
137+06	-	142+00	RT	331	Longwood Drive
154+65	-	157+72	LT	174	Keller (South)
162+29	-	165+77	RT	190	Zander Drive
174+74	-	179+58	RT	325	Grubers Grove Road
189+63	-	192+70	LT	179	Keller (North)
215+25	-	220+08	RT	317	STH 78 Access #1
227+25	-	230+66	RT	214	USDA Access
228+40	-	231+91	LT	212	USDA Access
289+86	-	294+61	RT	318	Inspiration Drive
299+00	-	303+94	RT	328	Kilpatrick Point
315+95	-	320+78	RT	327	STH 78 Access #2
352+45	-	357+15	RT	314	STH 78 Access #3
362+00	-	366+00	RT	258	Weigands Bay North
391+95	-	395+73	LT	245	Goette Road
411+41	-	416+26	RT	328	Eagle Point Road
425+45	-	431+81	LT	447	STH 113
423+90		434+83	RT	835	Lucille Lane
440+45		445+37	RT	323	Oak Road
451+66		453+75	LT	104	NW Quad
449+88		453+75	RT	197	SW Quad
454+35		458+30	LT	204	NE Quad
454+35		455+50	RT	70	SE Quad
458+43		461+42	RT	177	Walleye Lane
462+87		467+70	RT	327	Grandview Avenue
508+72		513+59	RT	327	Idlewild Road
			TOTAL 0010	180045	

BASE AGGREGATE DENSE 3/4-INCH

STATION	TO	STATION	LOCATION	305.0110 TON	REMARKS
76+00	-	125+00	LT & RT	405	3' shoulder
125+00	-	527+00	LT & RT	1312	1' shoulder
				100	undistributed
			TOTAL 0010	1817	

SHAPING SHOULDERS

STATION	TO	STATION	LOCATION	305.0500 STA
76+00	-	82+24	RT	7
83+55	-	98+23	RT	16
99+55	-	115+72	RT	17
117+02	-	125+00	RT	8
130+00	-	139+96	RT	10
141+30	-	163+32	RT	23
164+55	-	177+62	RT	14
178+90	-	182+70	RT	5
186+00	-	192+56	RT	7
203+45	-	218+12	RT	16
229+96	-	292+70	RT	64
294+00	-	301+20	RT	8
303+26	-	318+80	RT	16
320+19	-	354+09	RT	35
356+49	-	363+90	RT	8
365+30	-	413+00	RT	48
415+59	-	432+86	RT	18
434+16	-	443+34	RT	10
448+00	-	451+07	RT	4
460+82	-	465+67	RT	6
467+00	-	511+60	RT	45
513+00	-	521+00	RT	8
524+00	-	527+00	RT	3
76+00	-	124+35	LT	49
125+67	-	155+46	LT	31
156+68	-	190+43	LT	35
204+20	-	229+10	LT	26
230+00	-	341+00	LT	111
341+73	-	355+72	LT	15
361+10	-	362+00	LT	1
363+00	-	392+59	LT	30
394+00	-	426+11	LT	33
427+44	-	452+86	LT	26
456+11	-	527+00	LT	71
			TOTAL 0010	824

3

HMA COLD WEATHER PAVING

STATION	TO	STATION	LOCATION	450.4000 TON	REMARKS
76+00	-	527+00		5041	
			TOTAL 0010	5041	

TACK COAT

STATION	TO	STATION	LOCATION	455.0605 GAL	REMARKS
76+00	-	453+75	ML	10703	STH 78 (34 ft)
454+35	-	527+00	ML	2058	STH 78 (34 ft)
80+45	-	84+22	RT	19	Culvers CE
95+00	-	100+22	RT	27	North Ridge Drive
95+70	-	101+73	LT	43	North Ridge Drive Bypass Lane
112+84	-	117+69	RT	25	Dam Road
117+44	-	130+05	LT	71	CTH Z
122+19	-	128+00	RT	28	CTH Z Bypass
137+06	-	142+00	RT	25	Longwood Drive
154+65	-	157+72	LT	13	Keller (South)
162+29	-	165+77	RT	14	Zander Drive
174+74	-	179+58	RT	24	Grubers Grove Road
189+63	-	192+70	LT	13	Keller (North)
215+25	-	220+08	RT	24	STH 78 Access #1
227+25	-	230+66	RT	16	USDA Access
228+40	-	231+91	LT	16	USDA Access
289+86	-	294+61	RT	24	Inspiration Drive
299+00	-	303+94	RT	25	Kilpatrick Point
315+95	-	320+78	RT	25	STH 78 Access #2
352+45	-	357+15	RT	24	STH 78 Access #3
362+00	-	366+00	RT	19	Weigands Bay North
391+95	-	395+73	LT	18	Goette Road
411+41	-	416+26	RT	25	Eagle Point Road
425+45	-	431+81	LT	34	STH 113
423+90	-	434+83	RT	63	Lucille Lane
440+45	-	445+37	RT	24	Oak Road
451+66	-	453+75	LT	8	NW Quad
449+88	-	453+75	RT	15	SW Quad
454+35	-	458+30	LT	15	NE Quad
454+35	-	455+50	RT	5	SE Quad
458+43	-	461+42	RT	13	Walleye Lane
462+87	-	467+70	RT	25	Grandview Avenue
508+72	-	513+59	RT	25	Idlewild Road
			TOTAL 0010	13503	

ASPHALTIC SURFACE

STATION	TO	STATION	LOCATION	460.0105 TON	REMARKS
76+00	-	453+75	ML	13985	STH 78 (34 ft)
454+35	-	527+00	ML	2690	STH 78 (34 ft)
80+45	-	84+22	RT	24	Culvers CE
95+00	-	100+22	RT	35	North Ridge Drive
95+70		101+73	LT	56	North Ridge Drive Bypass Lane
112+84	-	117+69	RT	32	Dam Road
117+44	-	130+05	LT	93	CTH Z
122+19	-	128+00	RT	36	CTH Z Bypass
137+06	-	142+00	RT	32	Longwood Drive
154+65	-	157+72	LT	17	Keller (South)
162+29	-	165+77	RT	19	Zander Drive
174+74	-	179+58	RT	32	Grubers Grove Road
189+63	-	192+70	LT	18	Keller (North)
215+25	-	220+08	RT	31	STH 78 Access #1
227+25	-	230+66	RT	21	USDA Access
228+40	-	231+91	LT	21	USDA Access
289+86	-	294+61	RT	31	Inspiration Drive
299+00	-	303+94	RT	32	Kilpatrick Point
315+95	-	320+78	RT	32	STH 78 Access #2
352+45	-	357+15	RT	31	STH 78 Access #3
362+00	-	366+00	RT	25	Weigands Bay North
391+95	-	395+73	LT	24	Goette Road
411+41	-	416+26	RT	32	Eagle Point Road
425+45	-	431+81	LT	44	STH 113
423+90	-	434+83	RT	82	Lucille Lane
440+45	-	445+37	RT	32	Oak Road
451+66	-	453+75	LT	10	NW Quad
449+88	-	453+75	RT	19	SW Quad
454+35	-	458+30	LT	20	NE Quad
454+35	-	455+50	RT	7	SE Quad
458+43	-	461+42	RT	17	Walleye Lane
462+87	-	467+70	RT	32	Grandview Avenue
508+72	-	513+59	RT	32	Idlewild Road
			TOTAL 0010	17644	

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TRAFFIC CONTROL DRUMS

LOCATION	643.0300 DAY	REMARKS
	300	Undistrubuted
TOTAL 0010	300	

TRAFFIC CONTROL SIGNS PCMS

LOCATION	643.1050 DAY	REMARKS
	14	2 boards- 7 day prior to start
TOTAL 0010	14	

TRAFFIC CONTROL SIGNS

	643.0900 DAY	REMARKS
	450	Advanced Warning
	2070	Sidelines
TOTAL 0010	2520	

MARKING LINE EPOXY 8-INCH

STATION	TO	STATION	LOCATION	646.3020 LF	REMARKS
81+23	-	82+23	RT	100	Culver's CE
96+93	-	98+23	RT	230	North Ridge Drive
113+72	-	115+72	RT	200	Dam Road
125+66	-	129+16	LT	350	CTH Z
137+96	-	139+96	RT	200	Longwood Drive
175+62	-	177+62	RT	200	Grubers Grove Road
216+12	-	218+12	RT	200	STH 78 Access #1
228+14	-	229+14	RT	100	USDA Access
230+01	-	231+01	LT	100	USDA Access
290+71	-	292+71	RT	200	Inspiration Drive
299+96	-	301+96	RT	200	Kilpatrick Point
316+80	-	318+80	RT	200	STH 78 Access #2
353+32	-	355+32	RT	200	STH 78 Access #3
361+90	-	363+90	RT	100	Weigands Bay North
393+85	-	394+85	LT	100	Goette Road
412+29	-	414+29	RT	200	Eagle Point Road
427+43	-	430+93	LT	350	STH 113
432+35	-	432+85	RT	50	Lucille Lane
441+33	-	443+33	RT	200	Oak Road
463+75	-	465+75	RT	200	Grandview Avenue
509+60	-	511+60	RT	200	Idlewild Road
			TOTAL 0010	3880	

MARKING LINE EPOXY 4-INCH

STATION	TO	STATION	LOCATION	646.1020 Solid White LF	REMARKS
76+00	-	527+00	edge line	86546	
162+30		165+93	short dash	90	RT
154+41		157+68	short dash	81	LT
189+64		192+69	short dash	75	LT
458+43		459+52	short dash	27	RT
98+00		100+50	lane line	63	LT-N. Ridge bypass
123+53		126+03	lane line	63	RT-CTH Z bypass
425+24		427+26	lane line	50	RT- STH 113 bypass
			TOTAL 0010	86994	

3

3

PAVEMENT MARKING SAME DAY EPOXY 4-INCH

STATION	TO	STATION	LOCATION	646.4520 Solid YL LF	Dashed YL LF	REMARKS
						Apply before C/L rumble
76+00	-	83+41	CL	741	188	dashed rt
83+41	-	94+00	CL		263	
94+00	-	99+00	CL	500	125	dashed lt
99+00	-	101+63	CL	526		dbl yl
101+63	-	113+70	CL	1207	300	dashed rt
113+70	-	116+83	CL		75	
116+83	-	130+95	CL	1412	350	dashed lt
130+95	-	203+55	CL	14520		dbl yl
203+55	-	214+50	CL	1095	275	dashed rt
214+50	-	220+40	CL		150	
220+40	-	231+85	CL	1145	288	dashed lt
231+85	-	293+00	CL	12230		dbl yl
293+00	-	303+26	CL	1026	263	dashed rt
303+26	-	306+68	CL		88	
306+68	-	317+40	CL	1072	275	dashed lt
317+40	-	426+60	CL	21840		dbl yl
427+01	-	432+50	CL	549	138	dashed rt
432+51	-	454+58	CL		550	
454+58	-	464+23	CL	965	238	dashed lt
464+23	-	465+49	CL		38	
465+49	-	475+00	CL	951	238	dashed rt
475+00	-	476+25	CL		38	
476+25	-	487+15	CL	1090	275	dashed lt
487+15	-	499+38	CL	2446		dbl yl
499+38	-	509+87	CL	1049	263	dashed rt
509+87	-	524+70	CL		375	
524+70	-	527+00	CL	230	63	dashed lt
			SUB TOTAL	64594	4850	
			TOTAL 0010	69444		

TEMPORARY MARKING LINE PAINT 4-INCH

STATION	TO	STATION	LOCATION	649.0105 Solid YL LF	Dashed YL	REMARKS
						Placed on milled surface
76+00	-	83+41	CL	741	60	dashed rt
83+41	-	94+00	CL		120	
94+00	-	99+00	CL	500	40	dashed lt
99+00	-	101+63	CL	526		dbl yl
101+63	-	113+70	CL	1207	96	dashed rt
113+70	-	116+83	CL		24	
116+83	-	130+95	CL	1412	112	dashed lt
130+95	-	203+55	CL	14520		dbl yl
203+55	-	214+50	CL	1095	88	dashed rt
214+50	-	220+40	CL		48	
220+40	-	231+85	CL	1145	92	dashed lt
231+85	-	293+00	CL	12230		dbl yl
293+00	-	303+26	CL	1026	84	dashed rt
303+26	-	306+68	CL		28	
306+68	-	317+40	CL	1072	84	dashed lt
317+40	-	426+60	CL	21840		dbl yl
427+01	-	432+50	CL	549	44	dashed rt
432+51	-	454+58	CL		176	
454+58	-	464+23	CL	965	76	dashed lt
464+23	-	465+49	CL		12	
465+49	-	475+00	CL	951	76	dashed rt
475+00	-	476+25	CL		12	
476+25	-	487+15	CL	1090	88	dashed lt
487+15	-	499+38	CL	2446		dbl yl
499+38	-	509+87	CL	1049	84	dashed rt
509+87	-	524+70	CL		120	
524+70	-	527+00	CL	230	20	dashed lt
			sub total	64594	1584	
			TOTAL 0010	66178		

3

3

CONSTRUCTION STAKING RESURFACING REFERENCE

STATION	TO	STATION	LOCATION	650.8000 LF	REMARKS
76+00	-	527+00		45100	
			TOTAL 0010	45100	

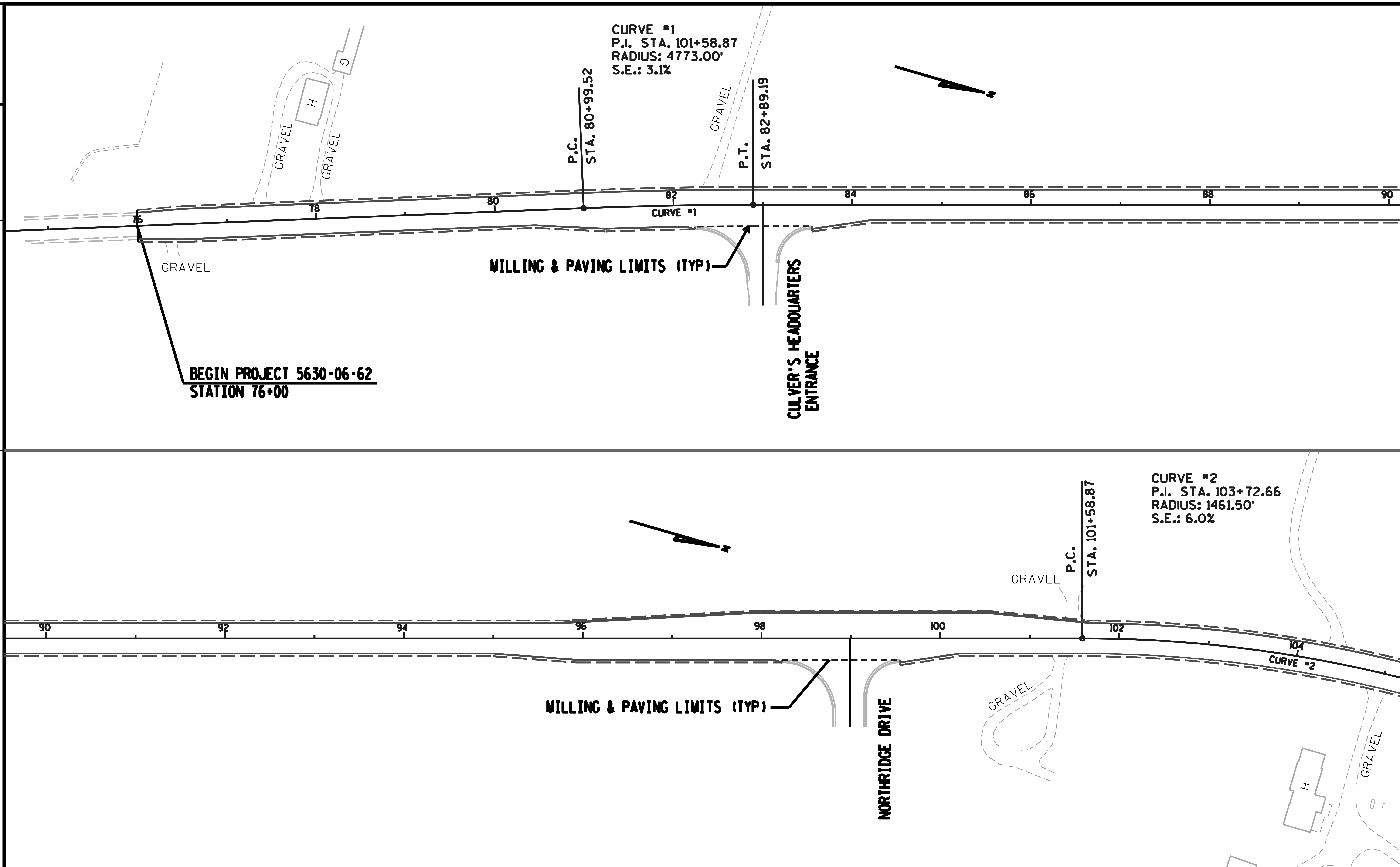
SAWING ASPHALT

STATION	TO	STATION	LOCATION	690.0150 LF	REMARKS
76+00			LT and RT	34	
527+00			LT and RT	34	
			TOTAL 0010	68	

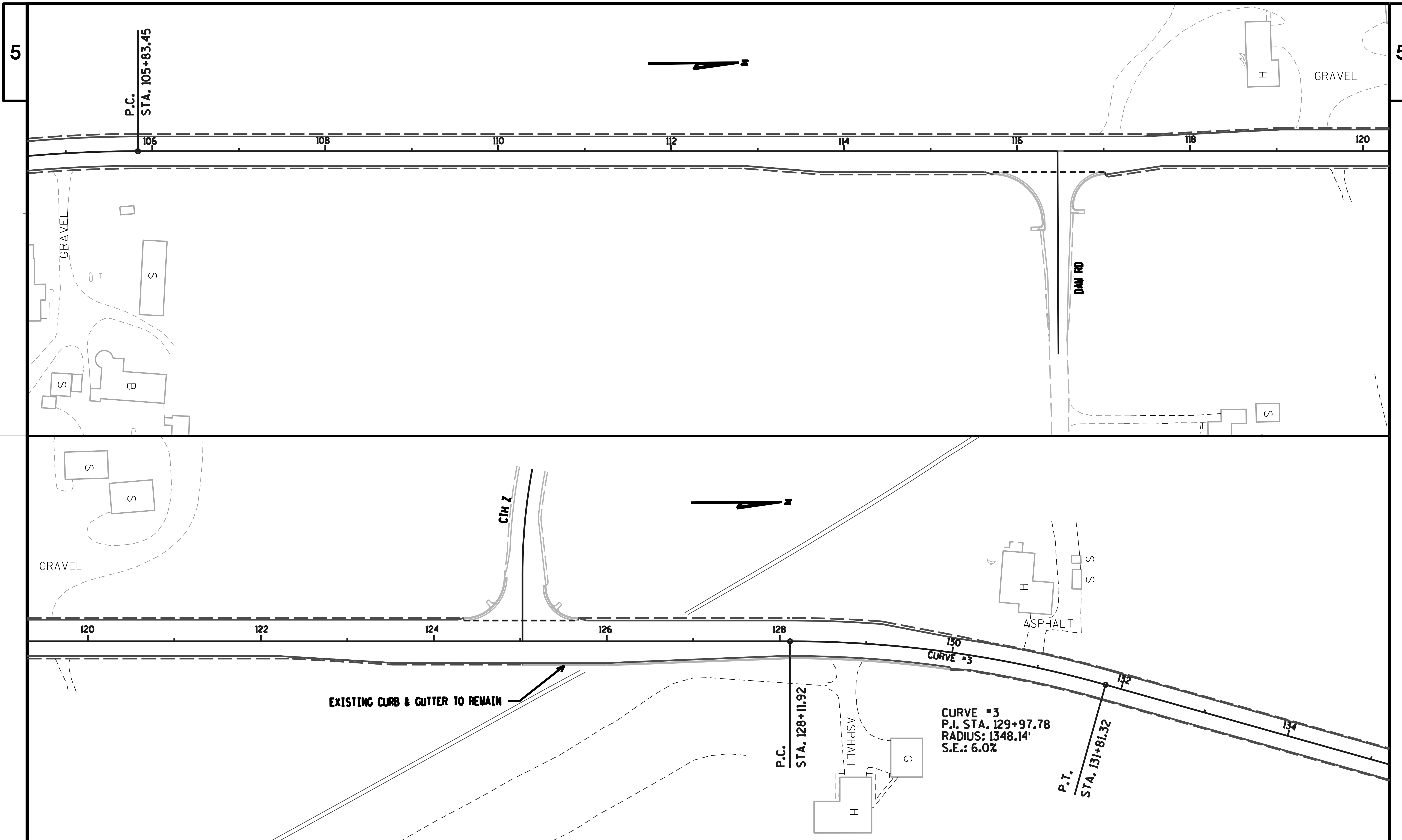
WATER

STATION	TO	STATION	LOCATION	624.0100 MGAL	REMARKS
76+00	-	125+00	LT & RT	3	
125+00	-	527+00	LT & RT	9	
			TOTAL 0010	12	

3



PROJECT NO:5630-06-62	HWY:STH 78	COUNTY:SAUK	PLAN	SHEET 11	E



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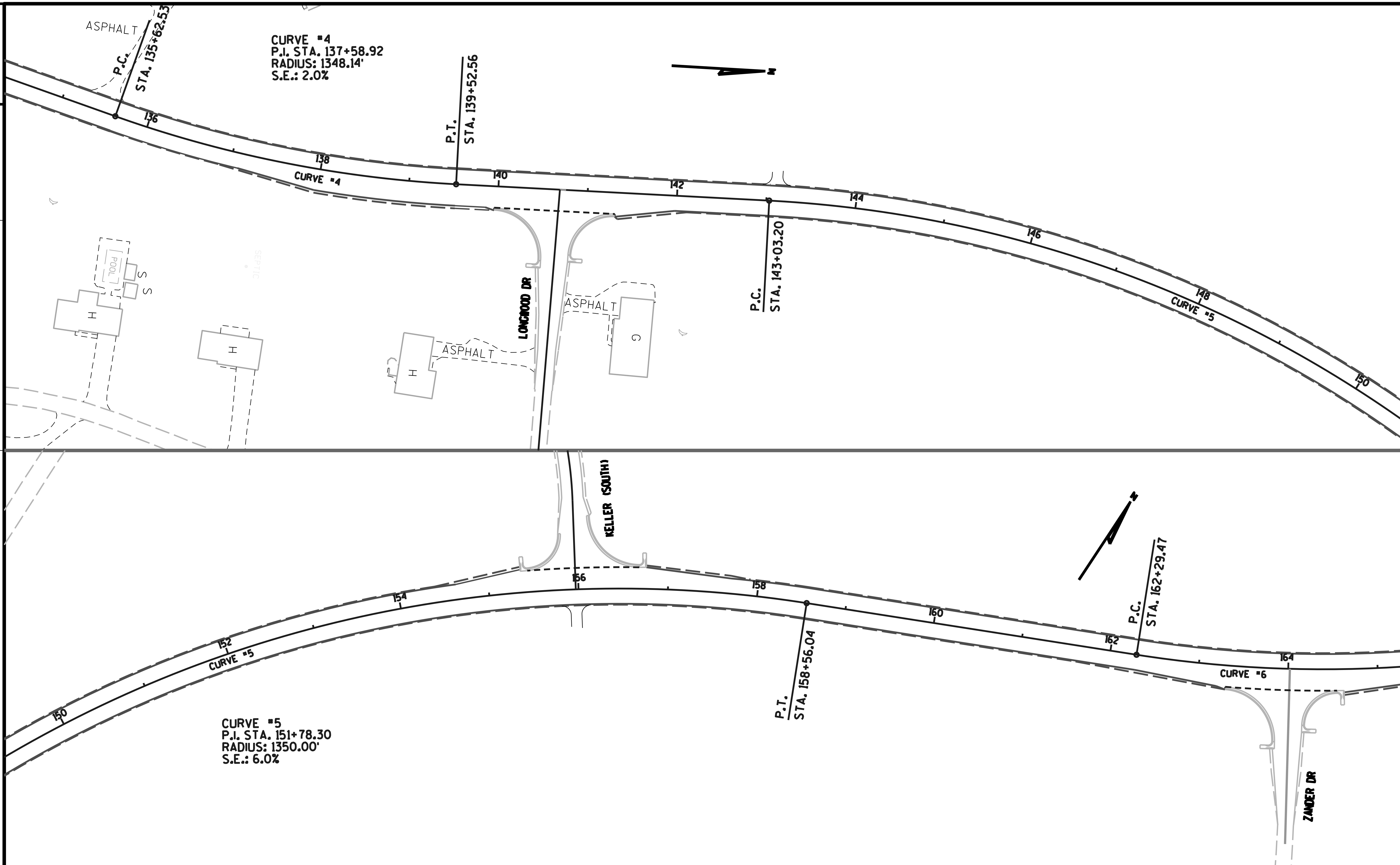

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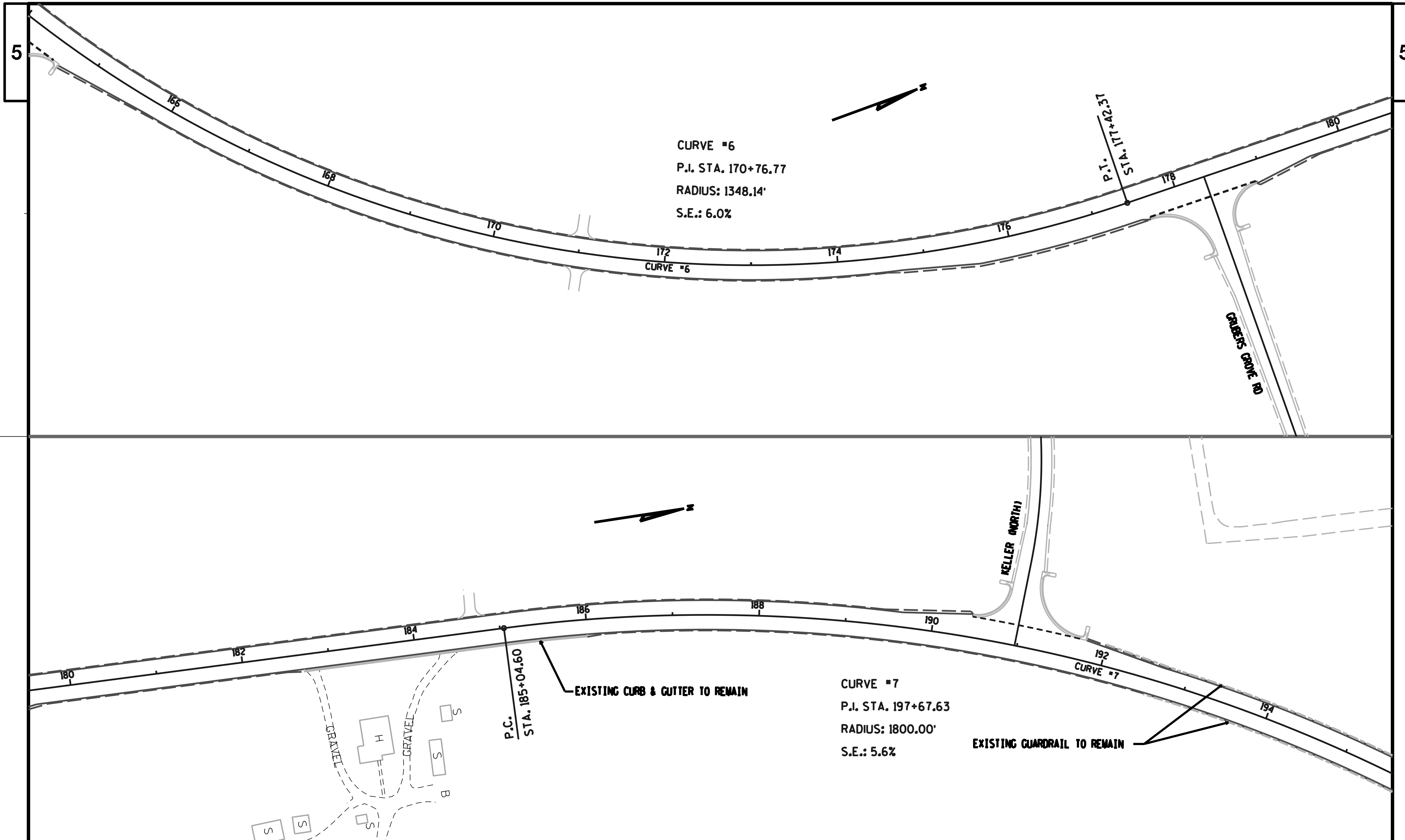

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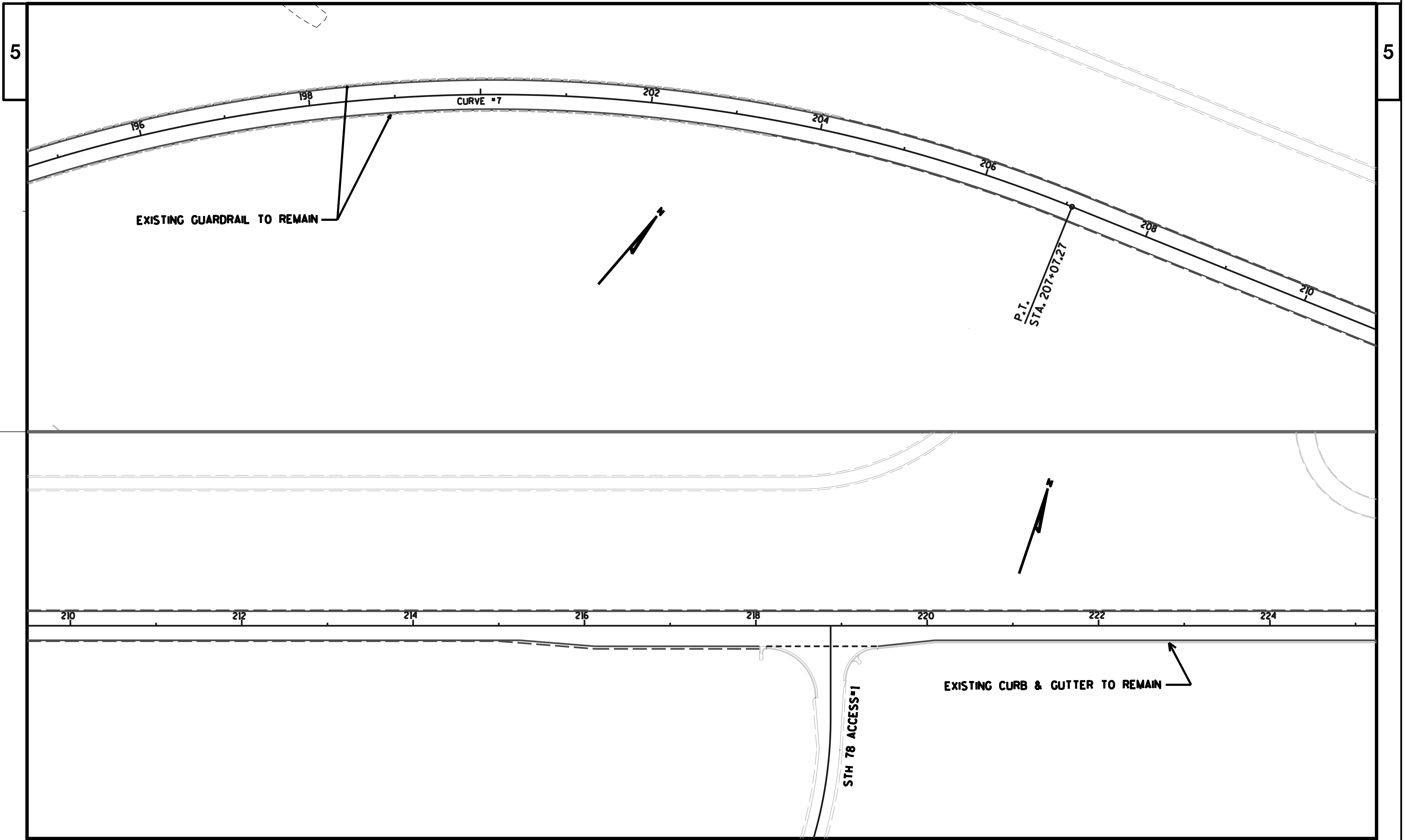

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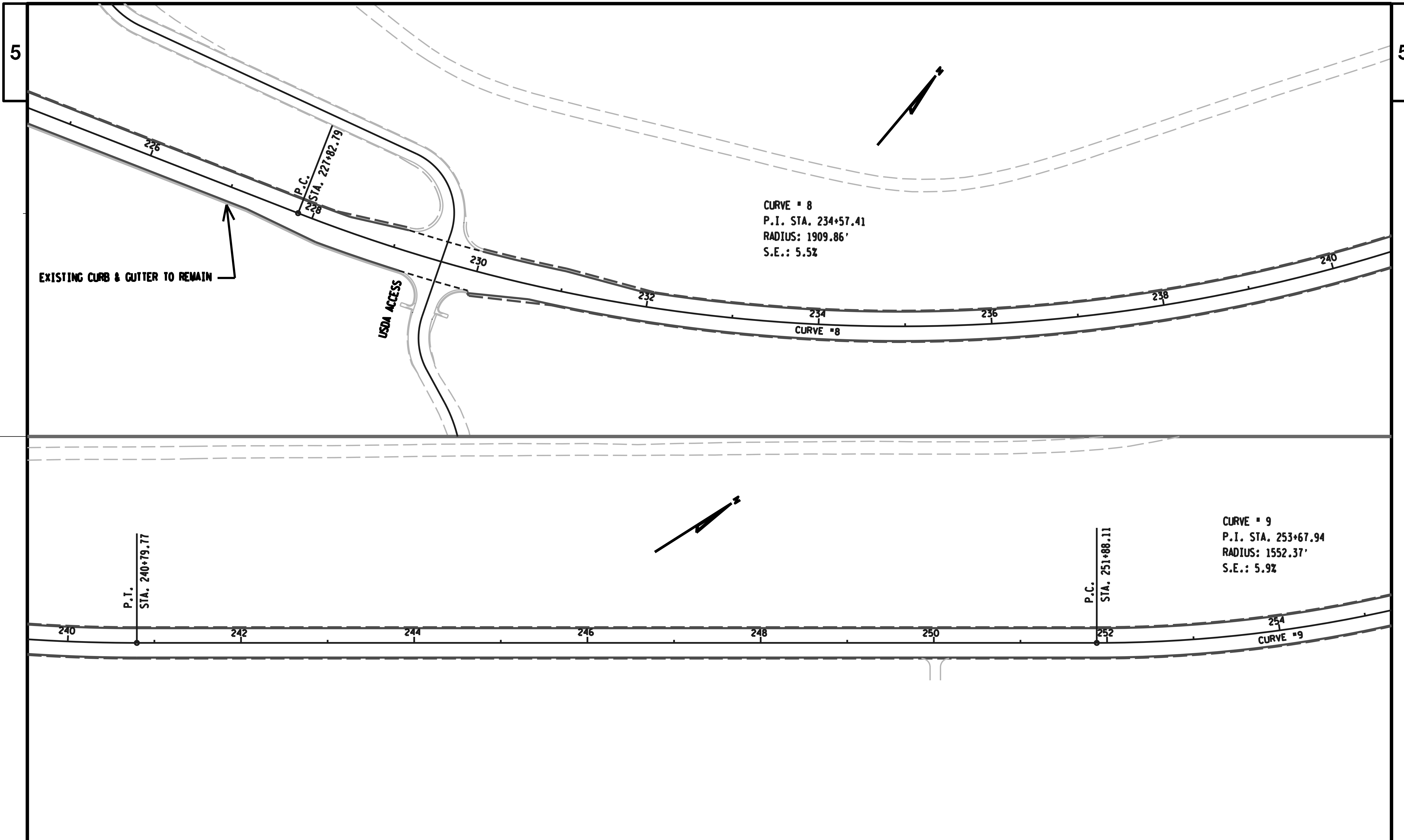

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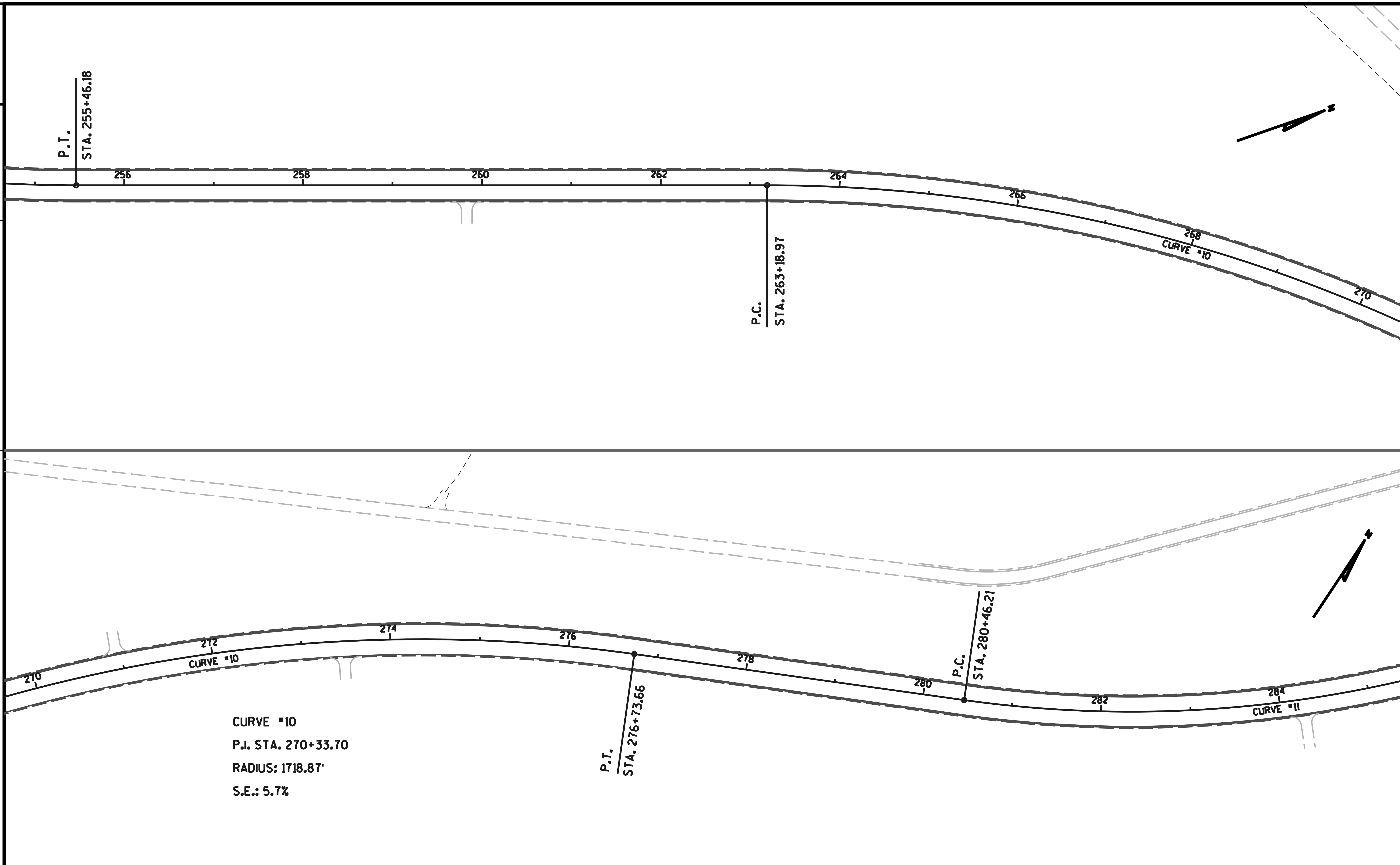
5

5



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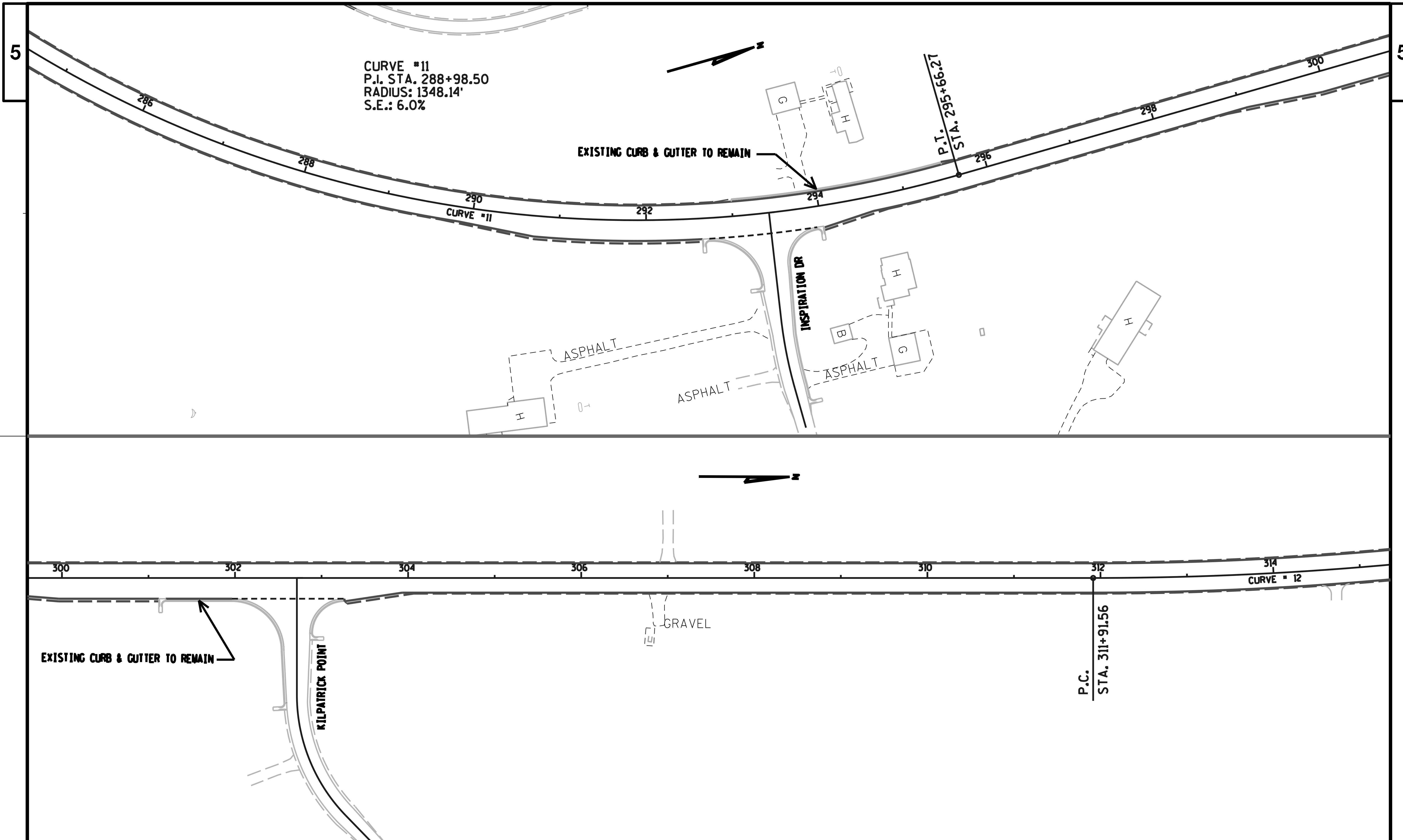

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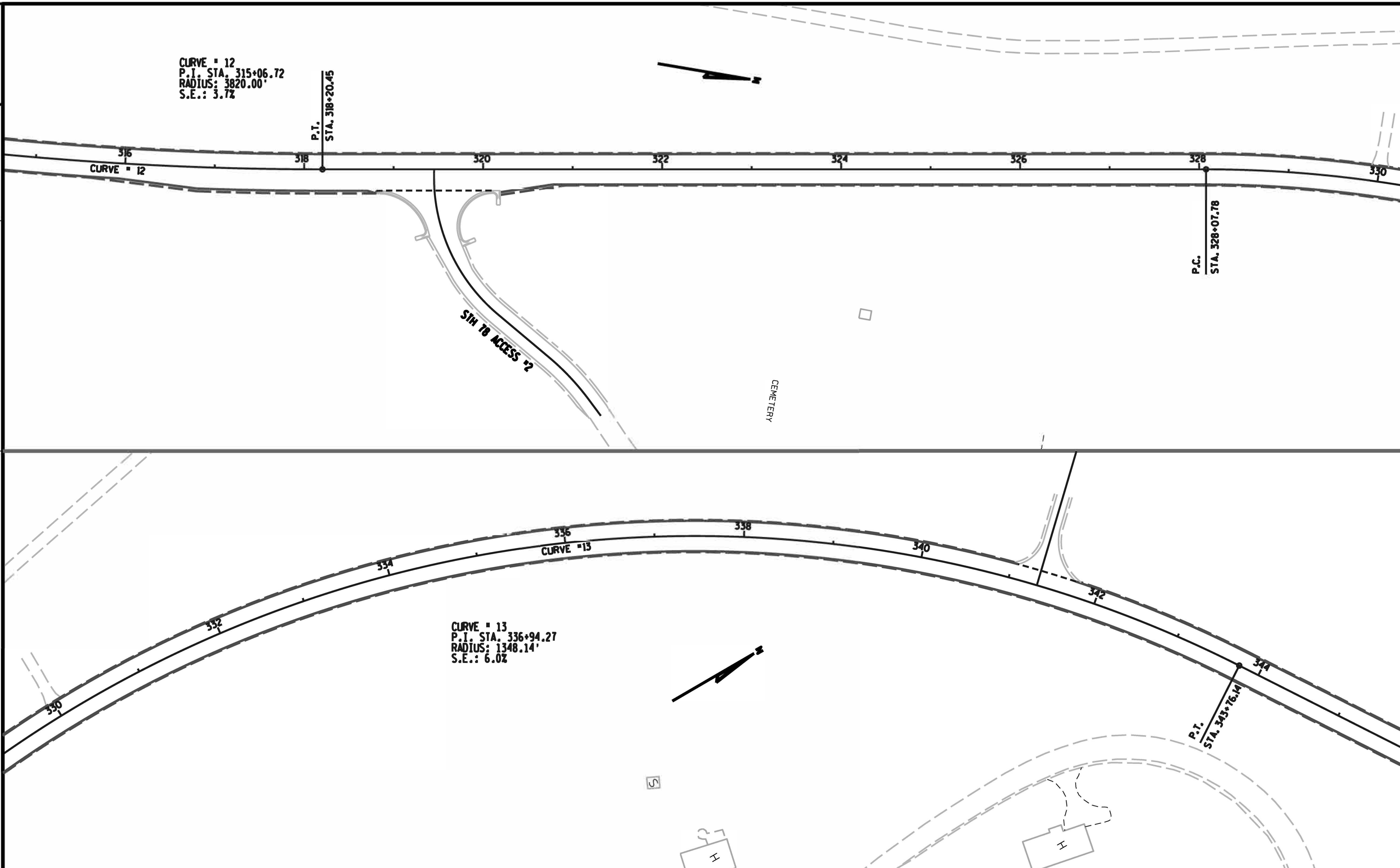

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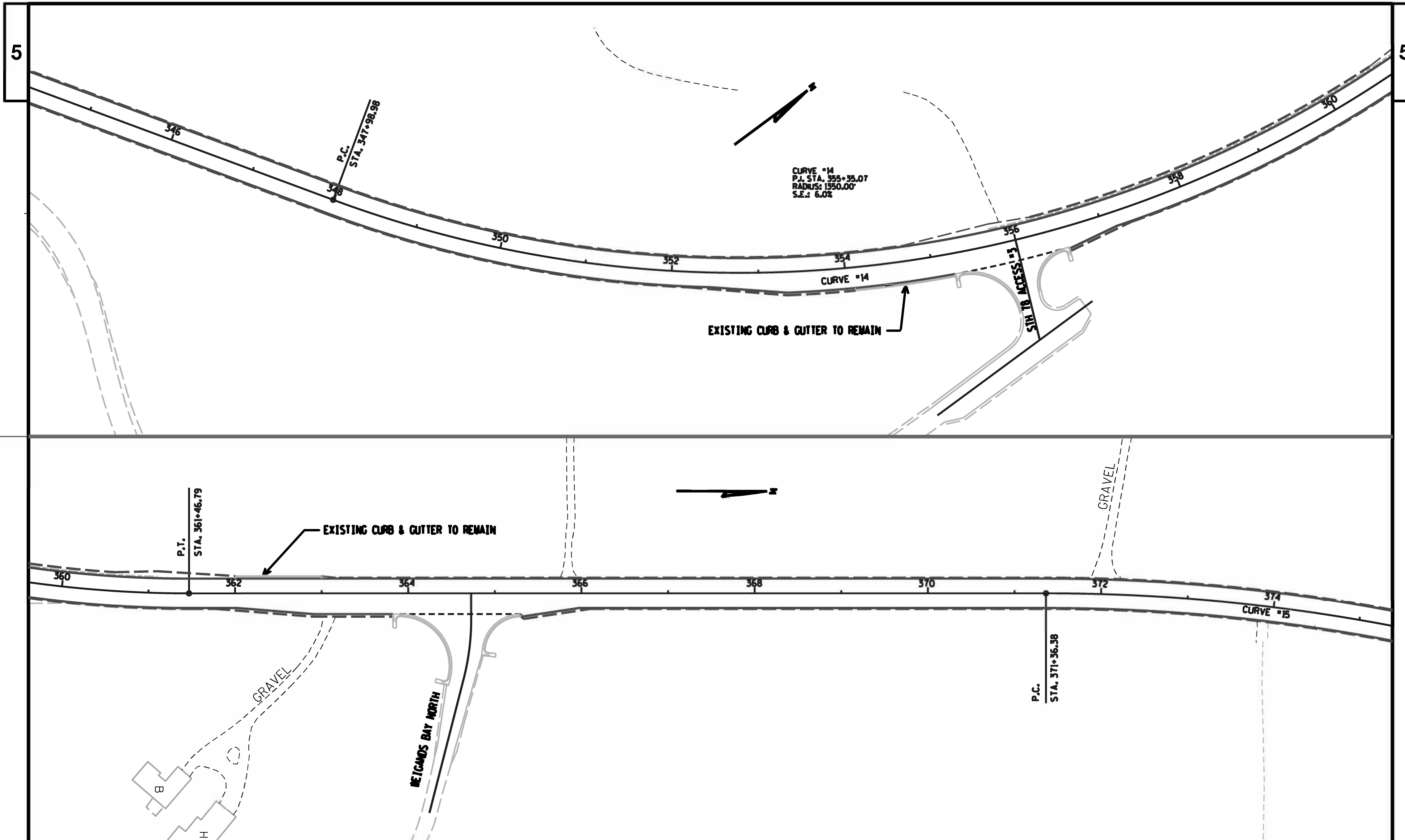

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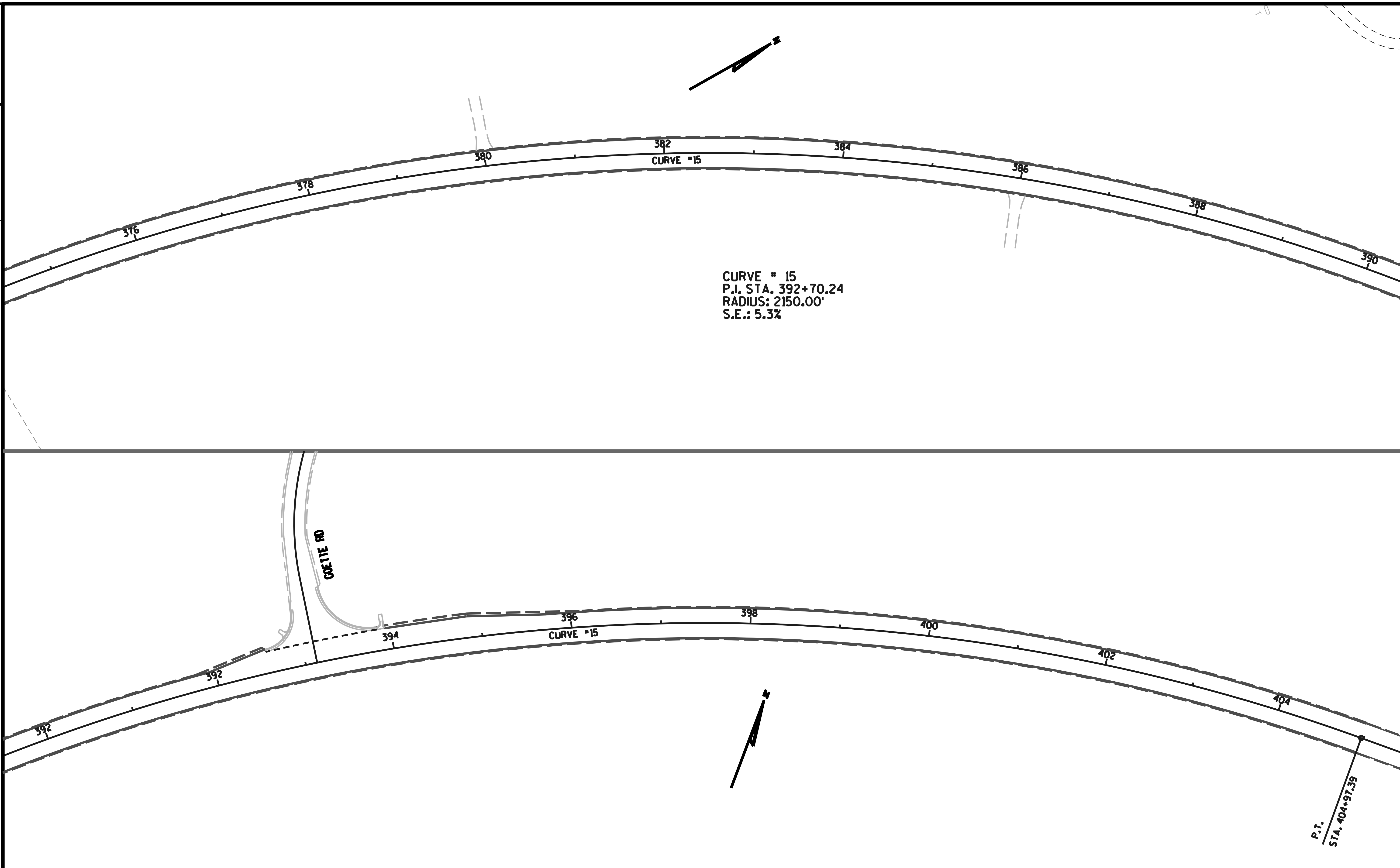

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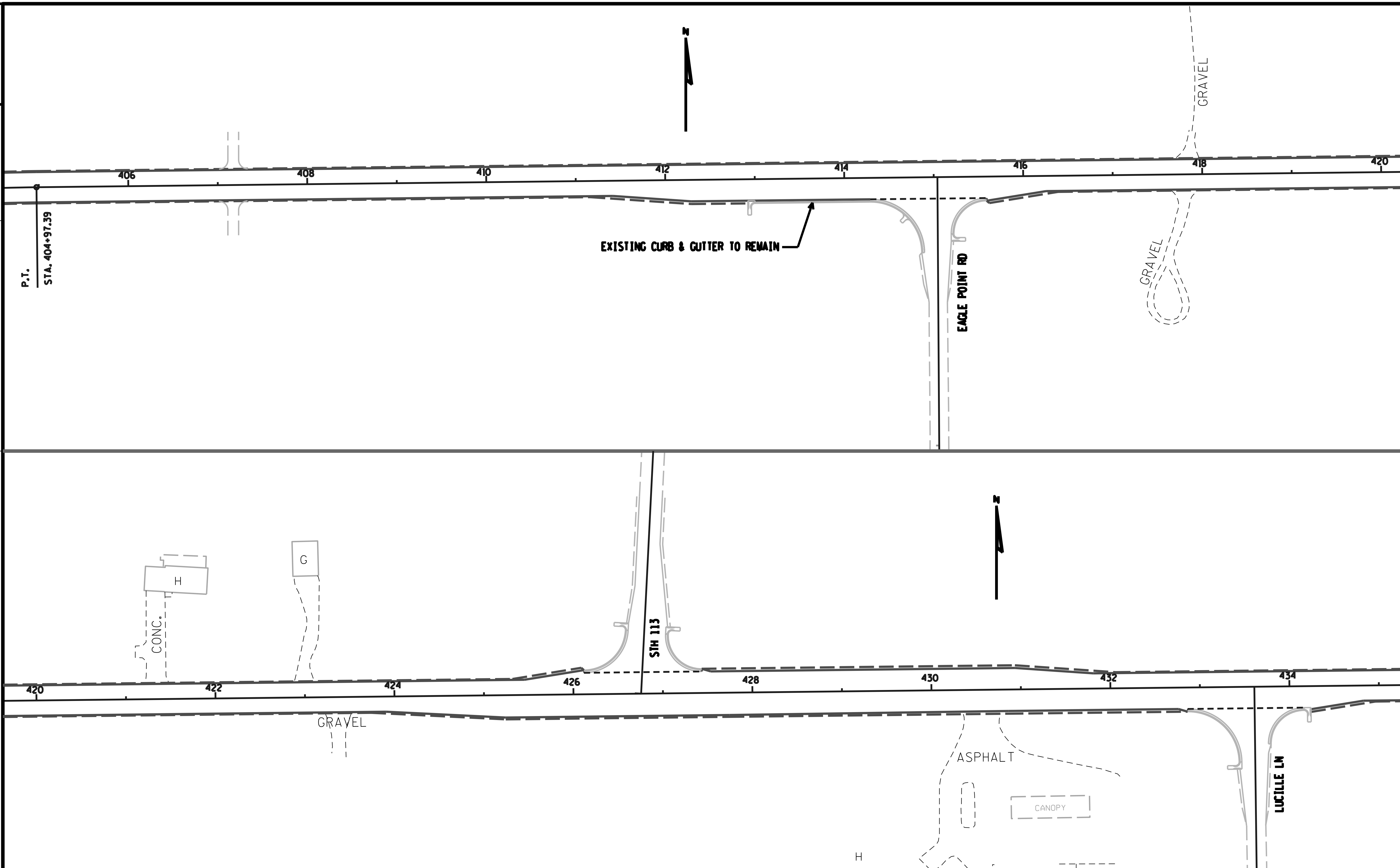

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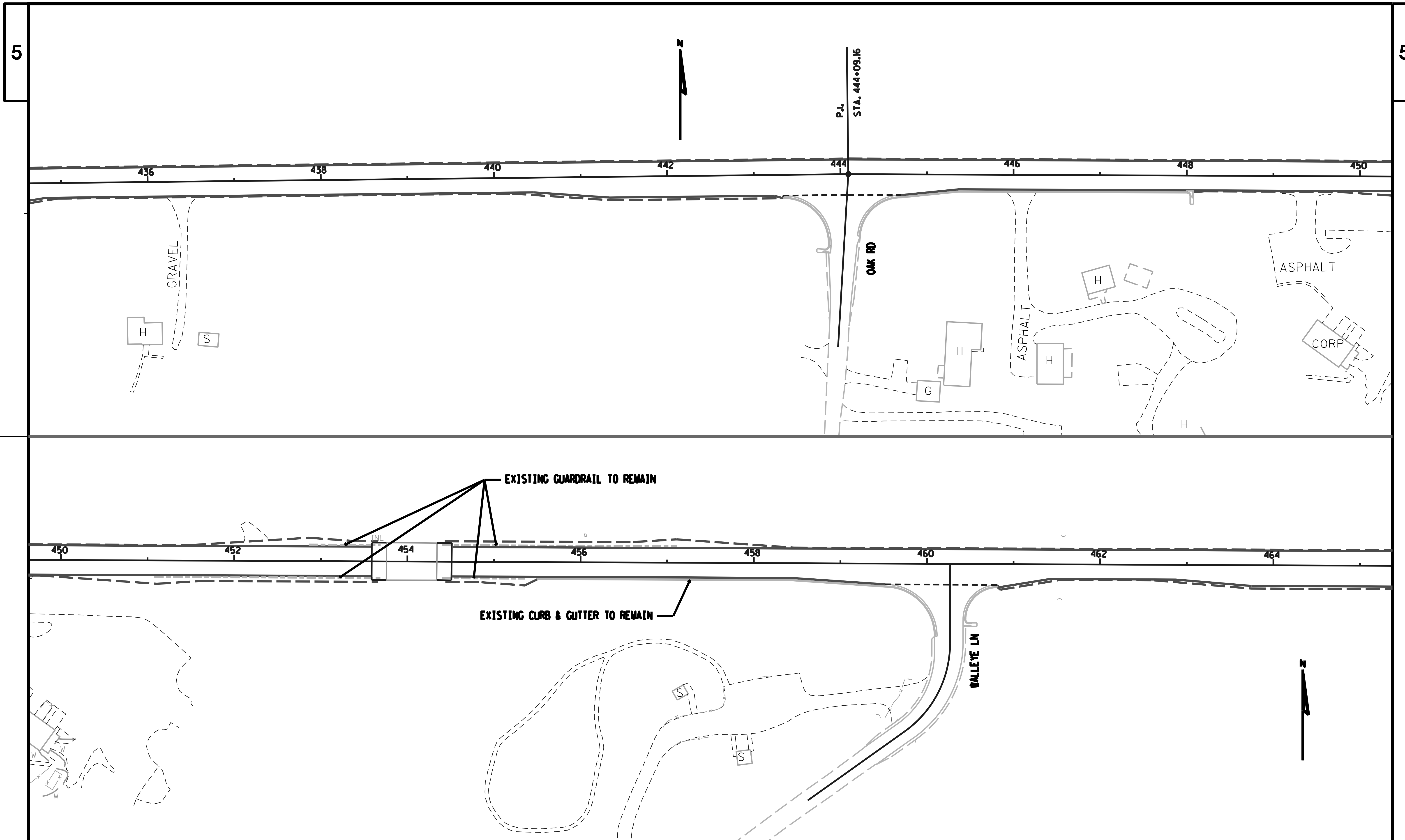
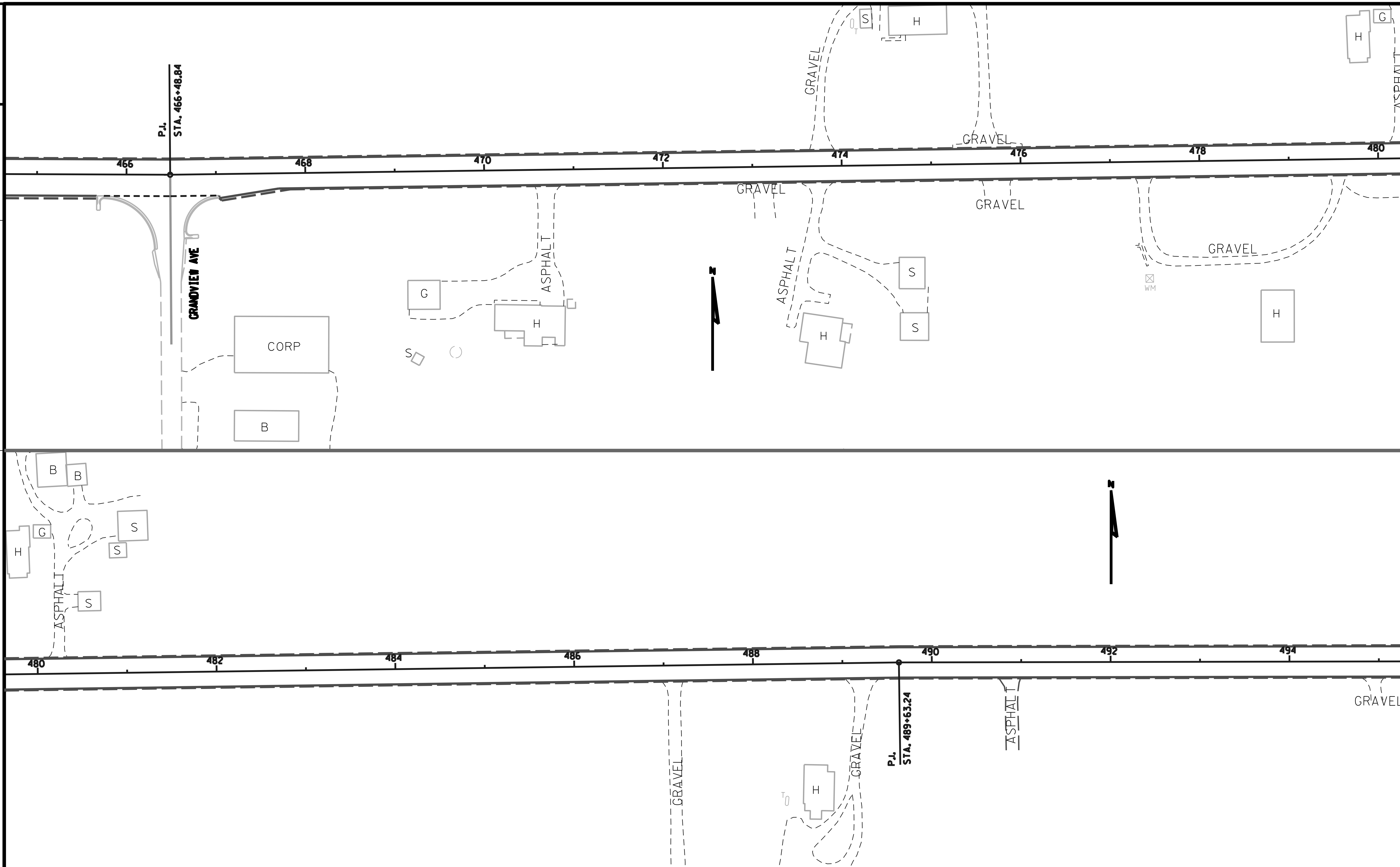


PROJECT NO:5630-06-62	HWY:STH 78	COUNTY:SAUK	PLAN	SHEET 23	E

5



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PROJECT NO:5630-06-62	HWY:STH 78	COUNTY:SAUK	PLAN	SHEET 24	E

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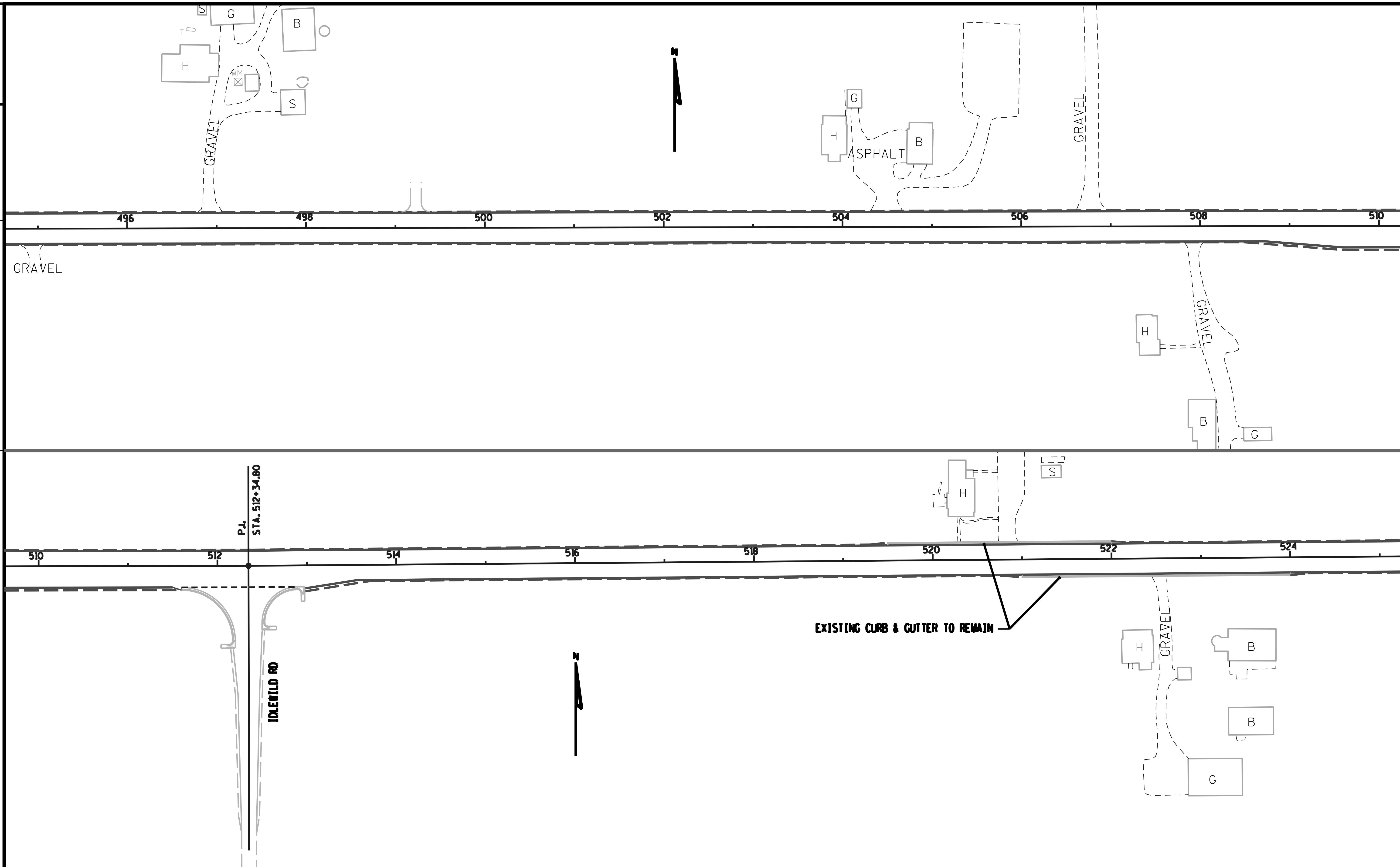

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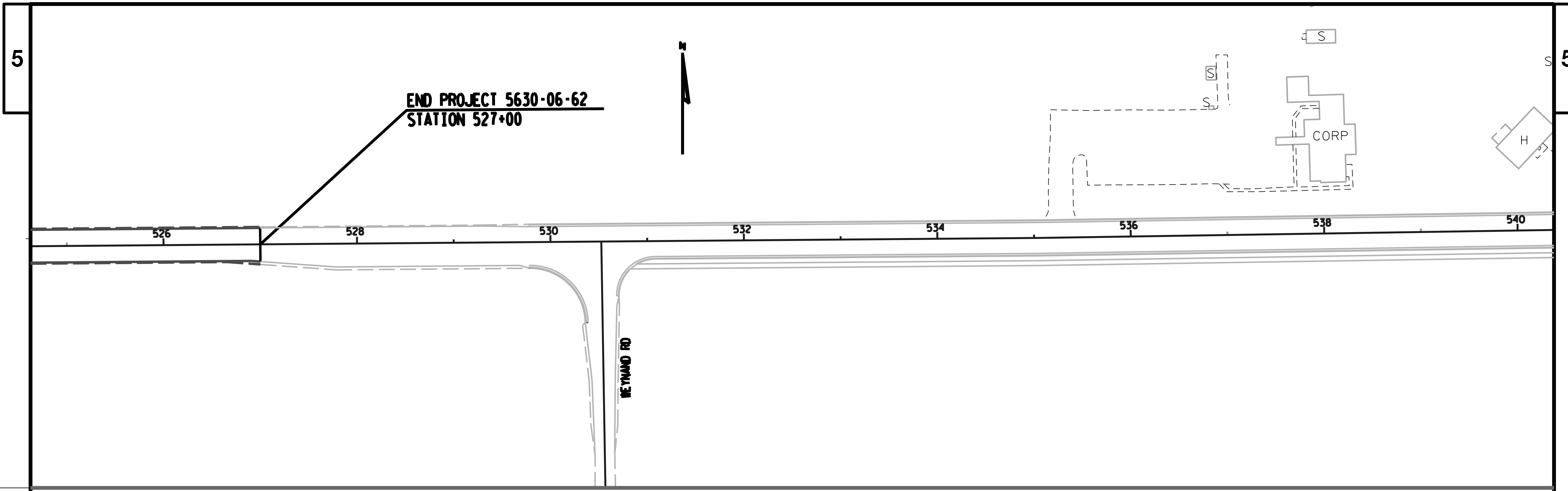


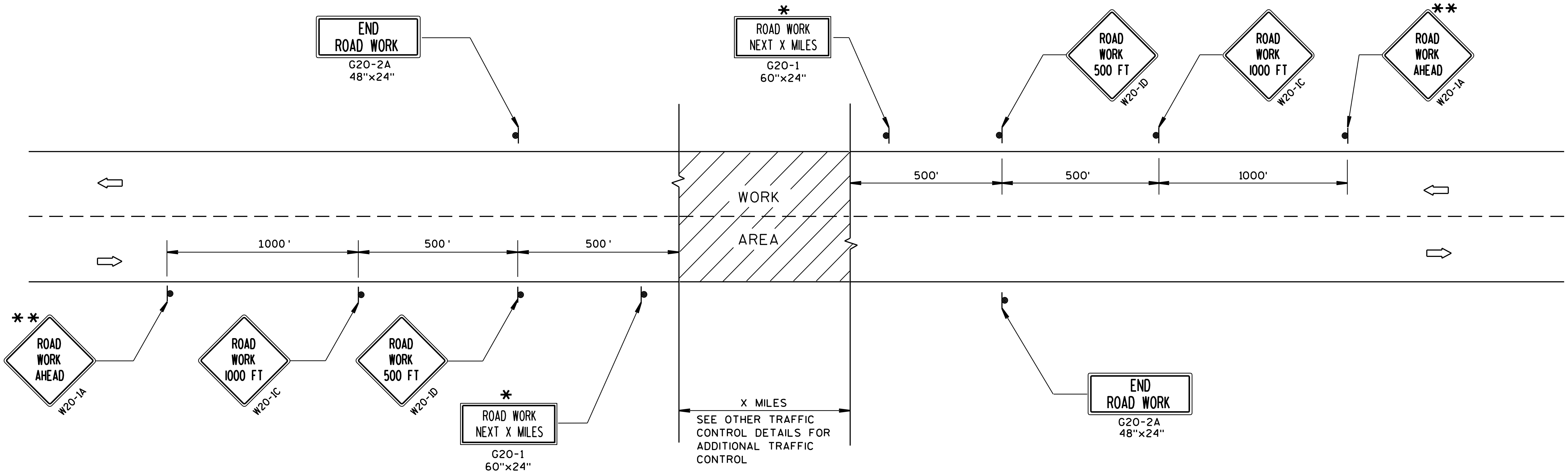
PROJECT NO:5630-06-62	HWY:STH 78	COUNTY:SAUK	PLAN	SHEET 26	E

Standard Detail Drawing List

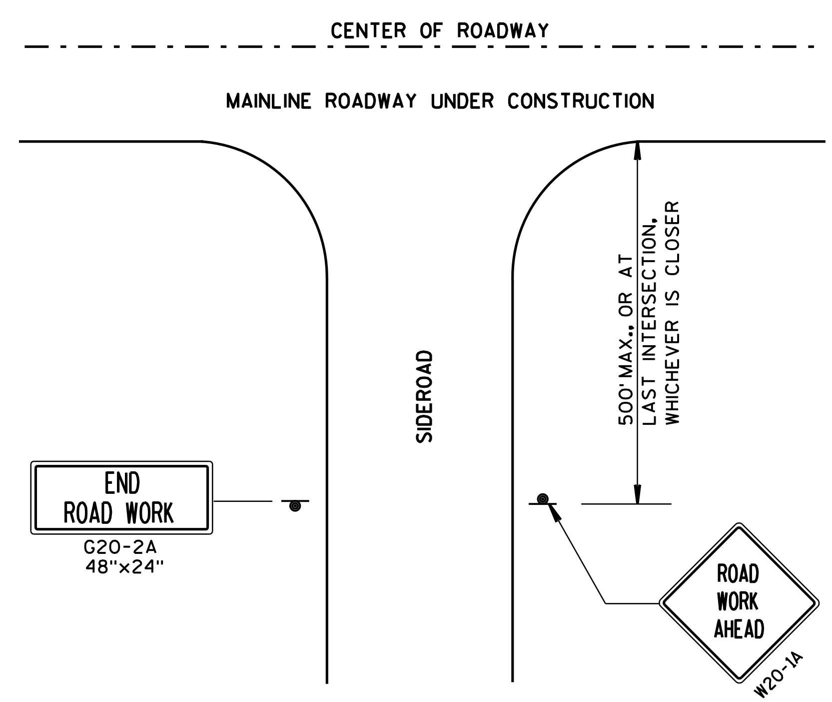
15C04-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

6



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



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"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE 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

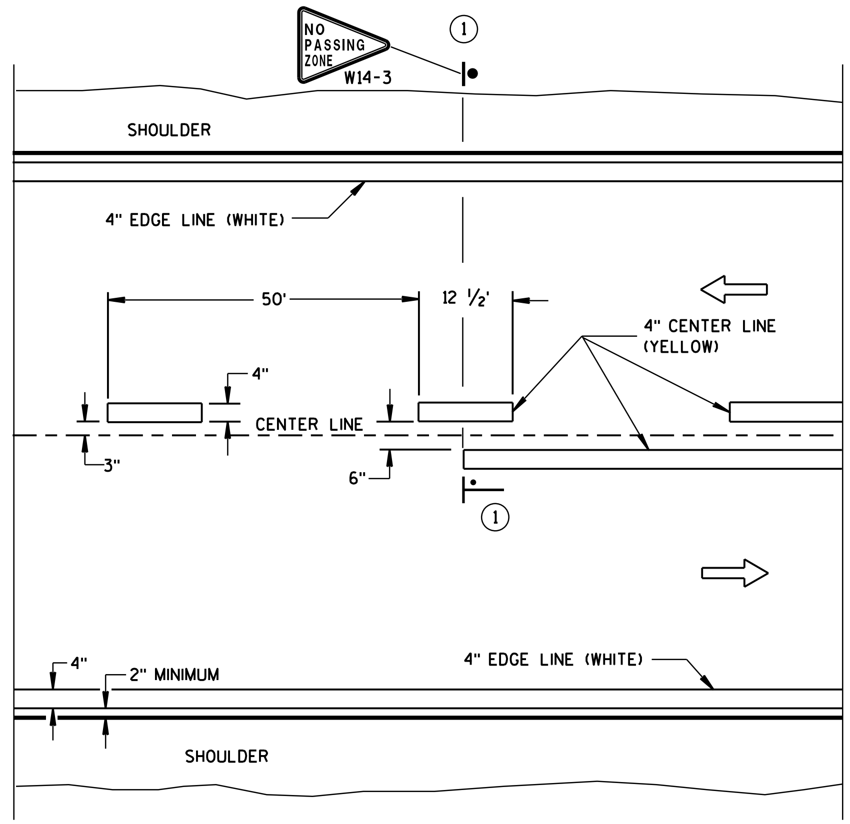
DIRECTION OF TRAFFIC

WORK AREA

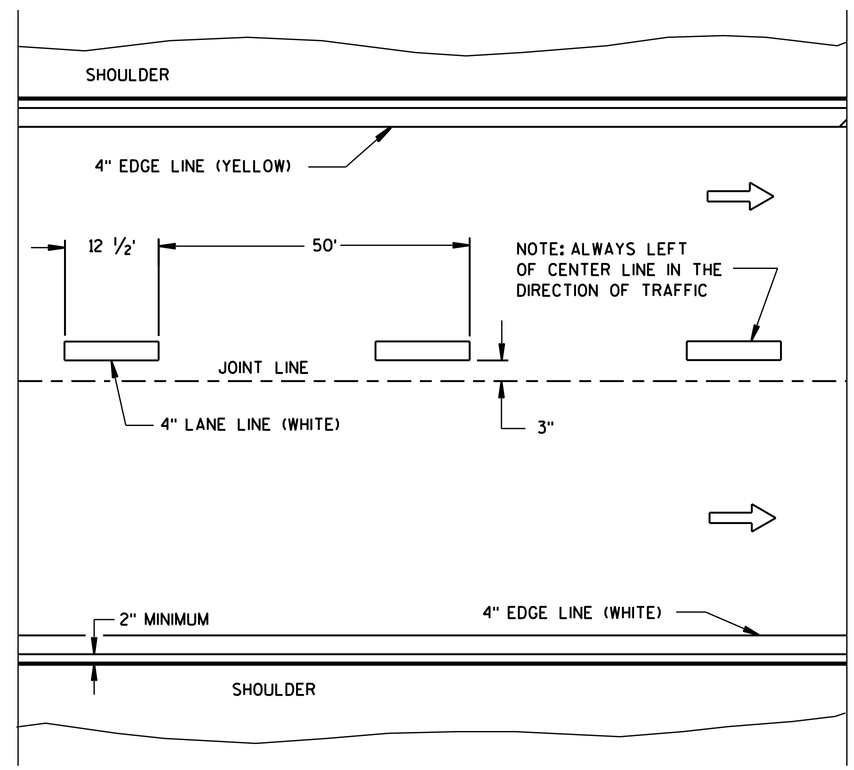
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENG
FHWA

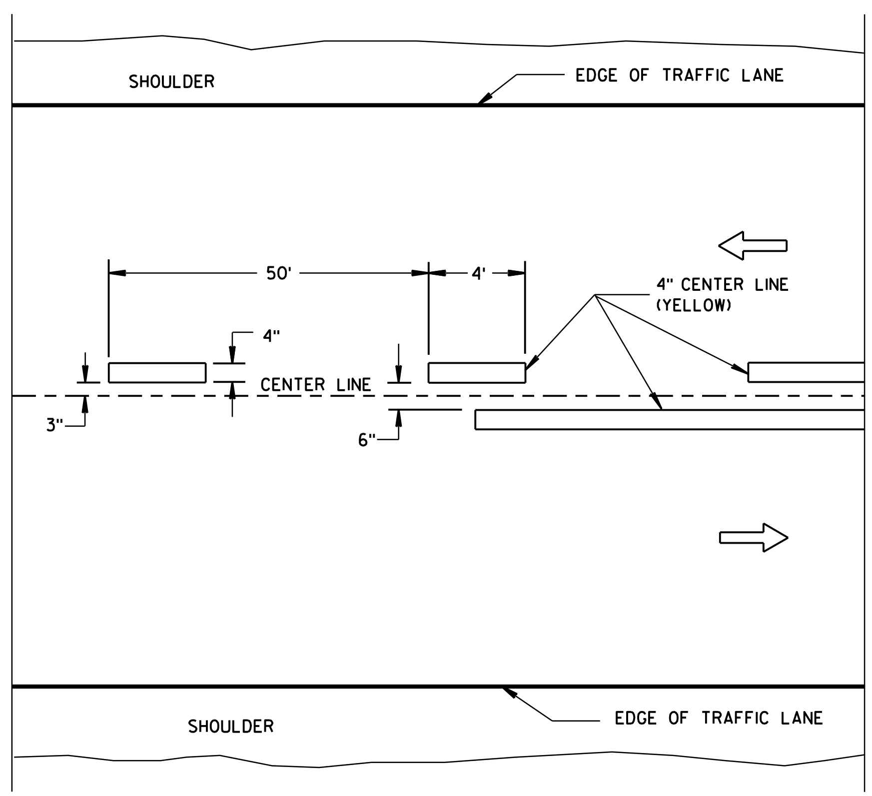


TWO WAY TRAFFIC

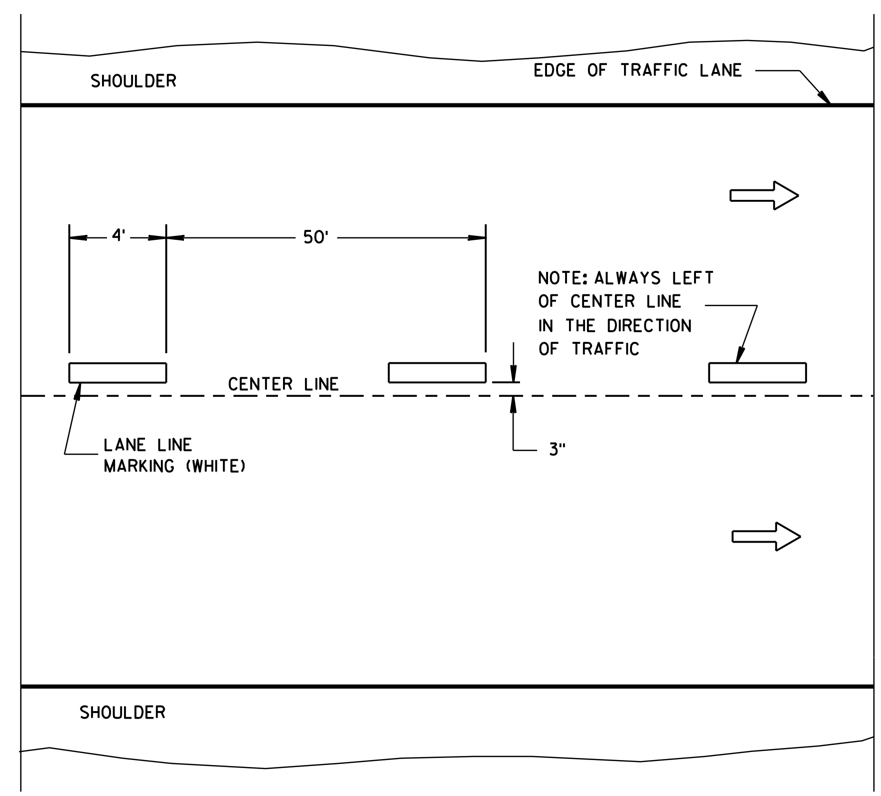


ONE WAY TRAFFIC

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 WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

LEGEND

"T" MARKING

POST MOUNTED SIGN

6

6

S.D.D. 15 C 8-18a

LONGITUDINAL MARKING (MAINLINE)

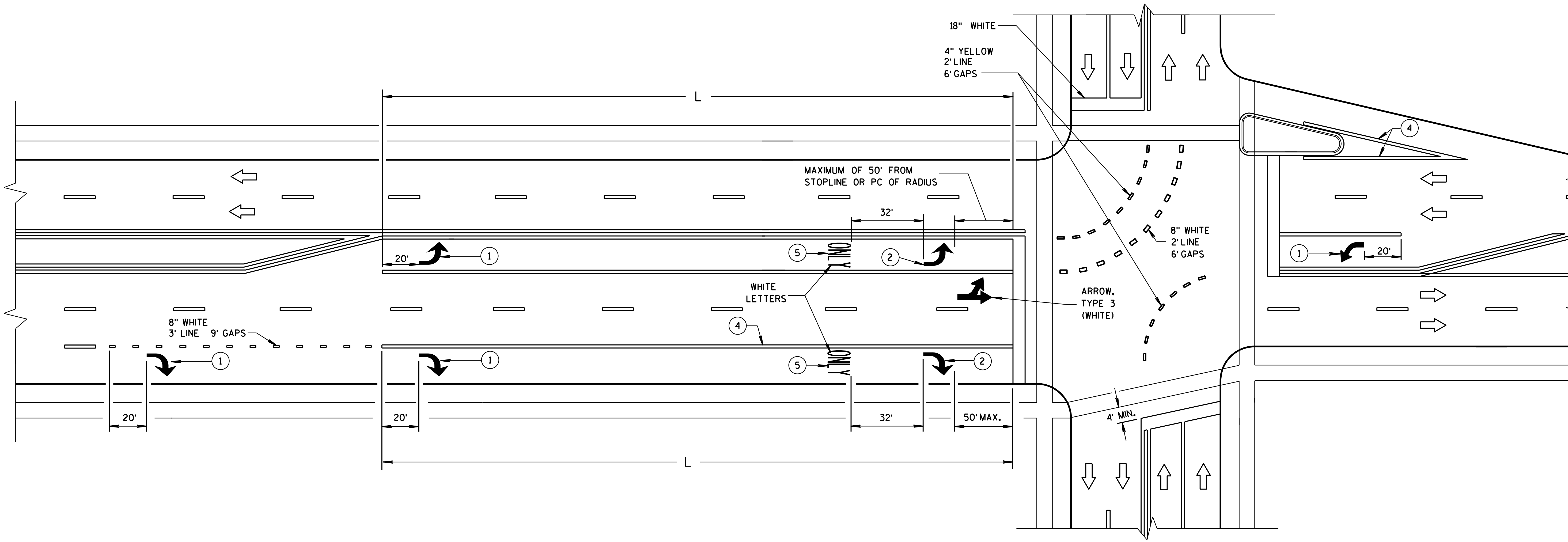
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

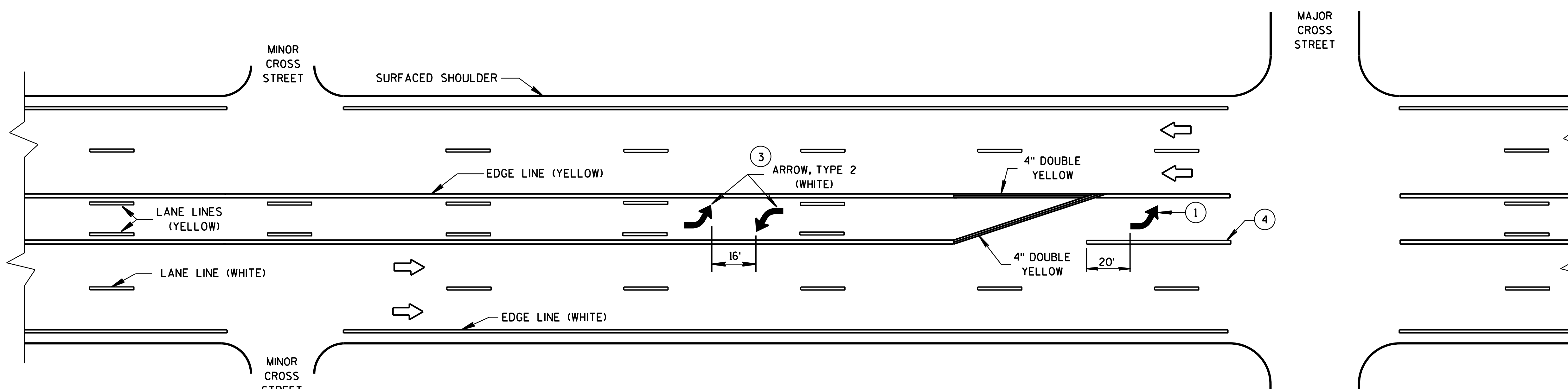
APPROVED

June 2017	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARKING ENGINEER

FHWA

S.D.D. 15 C 8-18a





TWO WAY LEFT TURN LANE

GENERAL NOTES

1. REQUIRED ARROW, TYPE 2 (WHITE).
2. REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. 8" WHITE
5. REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

6

6

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

S.D.D. 15 C 8-18b

S.D.D. 15 C 8-18b

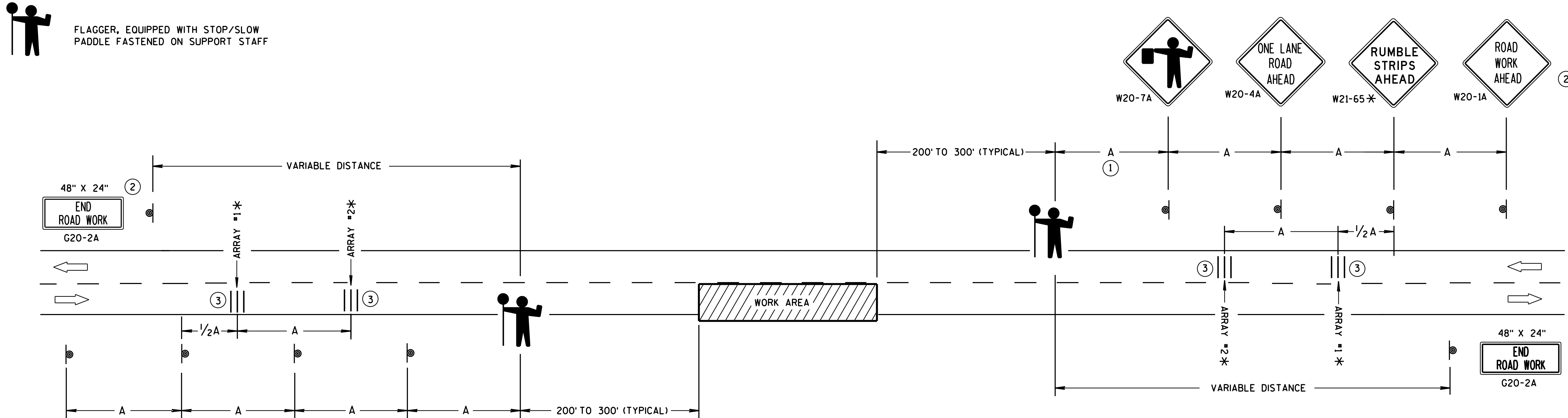
LEGEND

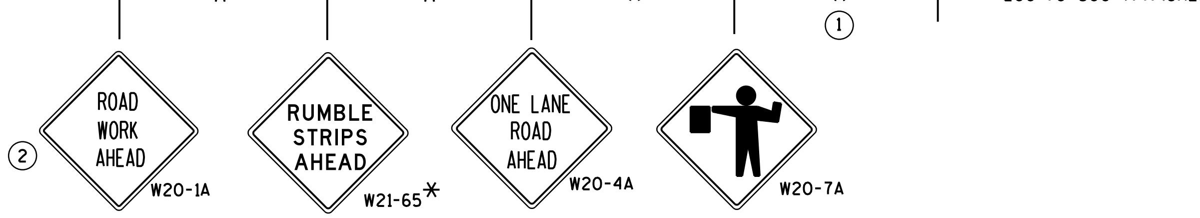
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

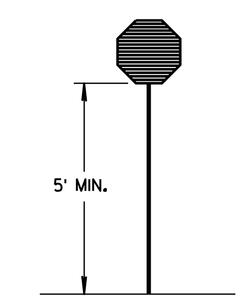
SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.





TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

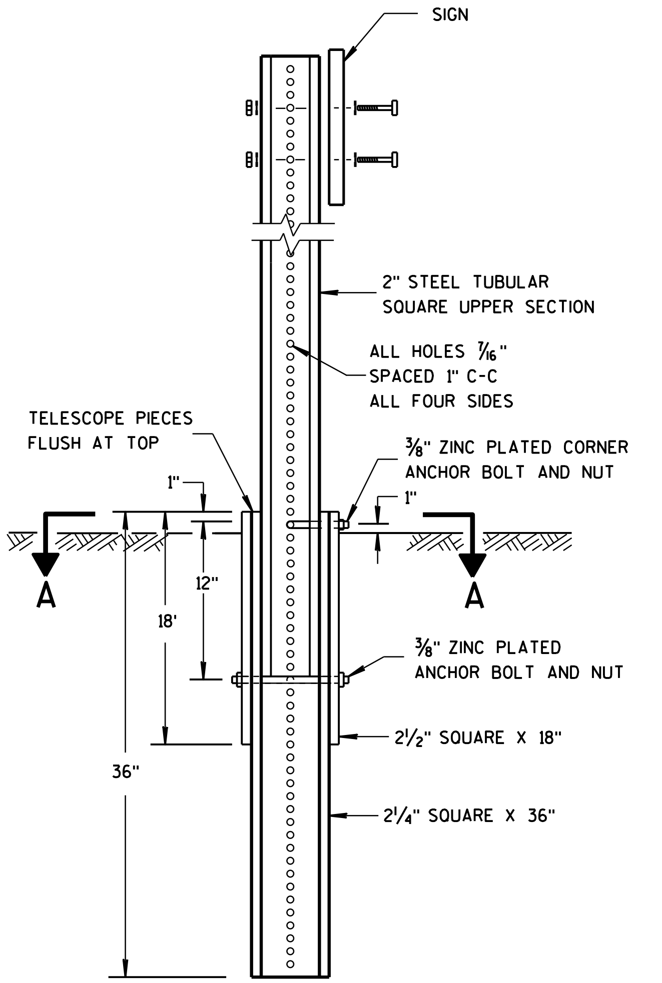
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

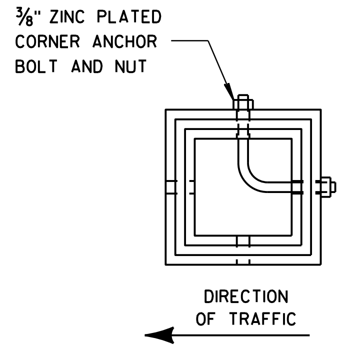
APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENG.
FHWA

6

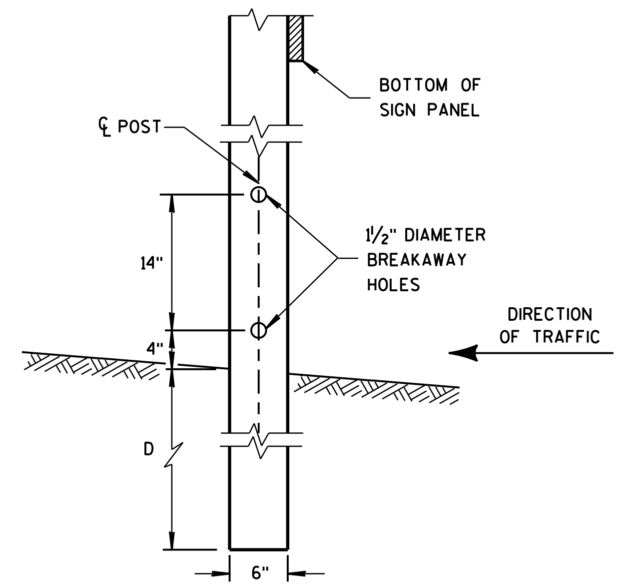
S.D.D. 15 C 12-6



DETAIL OF TUBULAR STEEL SIGN POST



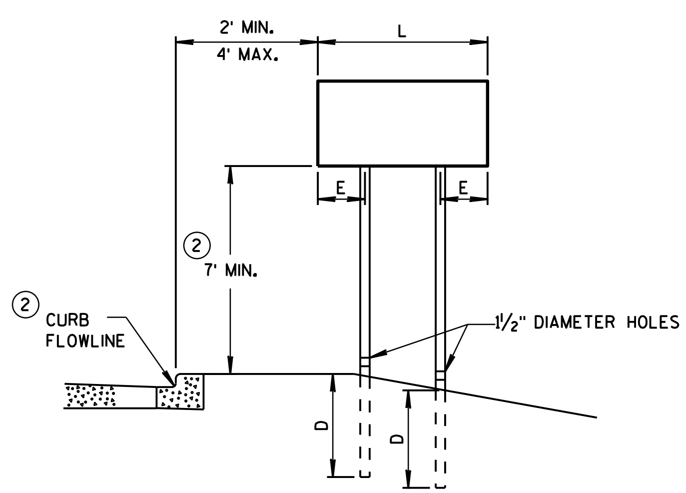
SECTION A-A



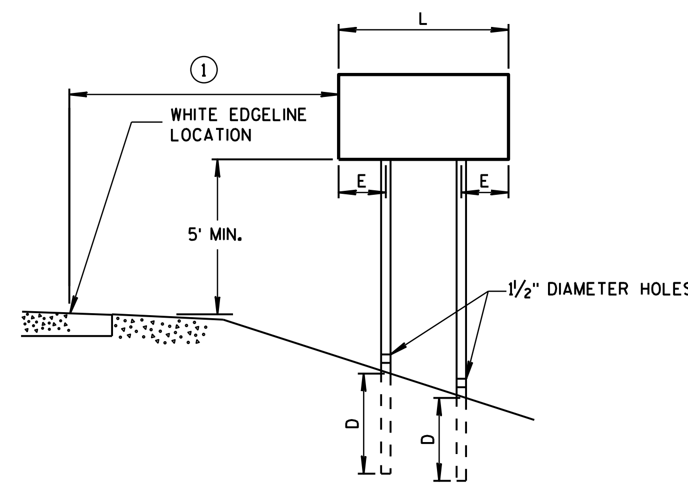
4"x6" WOOD POST MODIFICATION

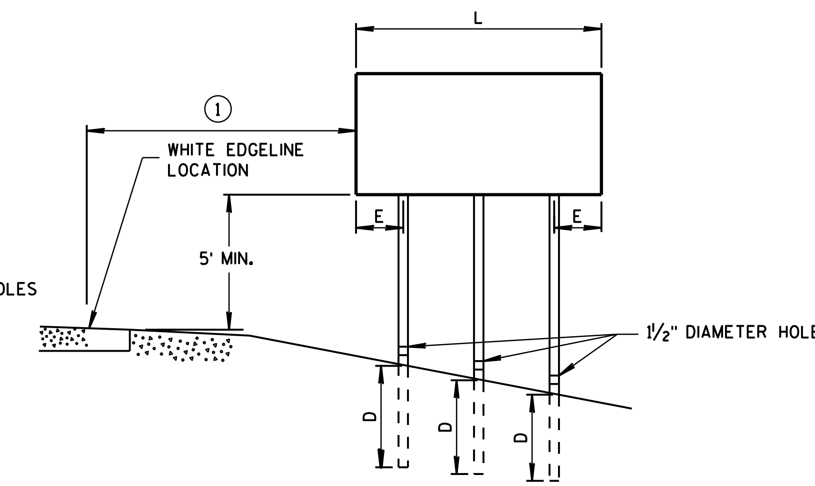
GENERAL NOTES

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 TRANSPO

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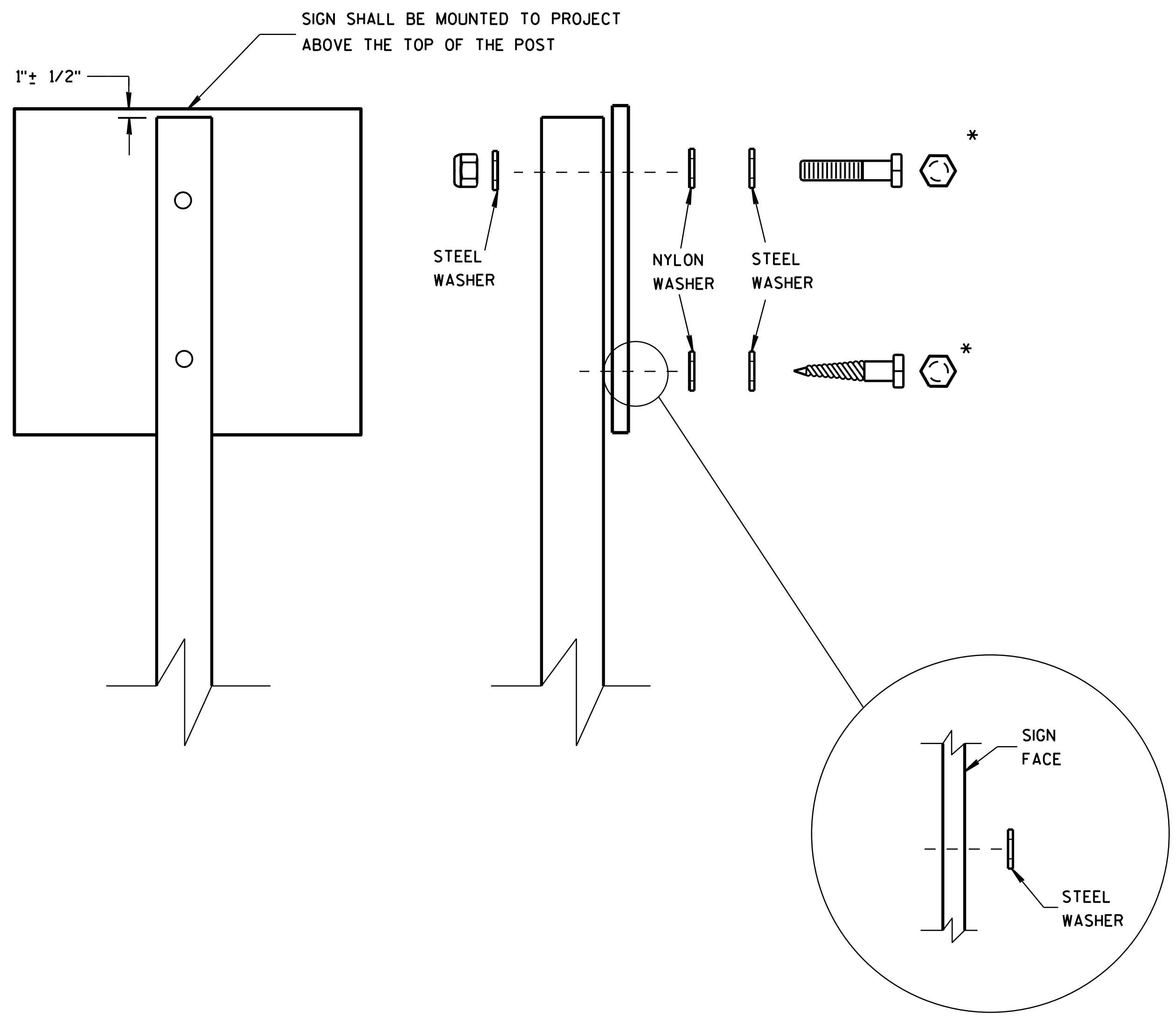

WASHER PLACEMENT WHEN SIGN
HAS OTHER THAN TYPE H OR
TYPE F FACE

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 POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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 FOR ALL TYPE H SIGNS

* 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.

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ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Andrew Heldtke
DATE WORK ZONE EN(33
FHWA

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Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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