

04-28-2023 LETTING ITEM 153

INDEX OF SHEETS

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STATE OF ILLINOIS
WINNEBAGO COUNTY HIGHWAY DEPARTMENT
 PLANS FOR PROPOSED FEDERAL HIGHWAY SAFETY IMPROVEMENT

FAU ROUTE 9884 (BELVIDERE ROAD)

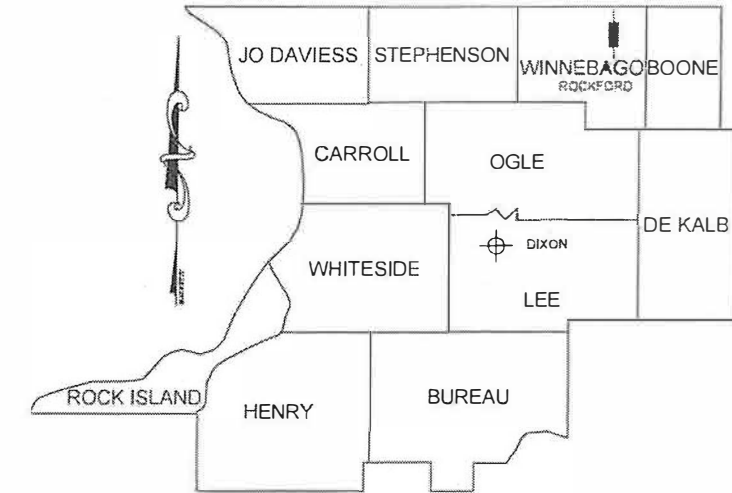
SECTION: 21-00689-00-SP
PROJECT NO.: Q20I (020)

HIGHWAY SAFETY IMPROVEMENTS ON BELVIDERE ROAD (C.H. 25)

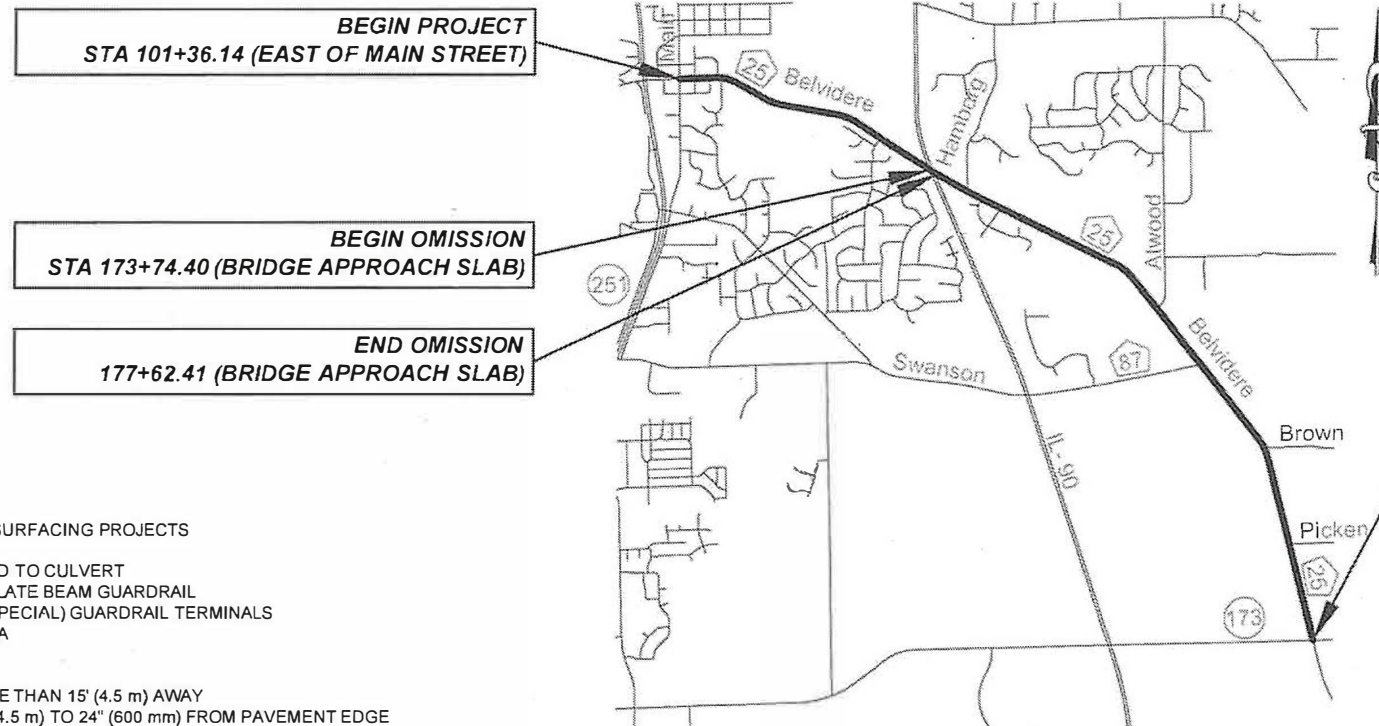
JOB NO.: C-92-045-22

HSIP NO.: 202111008

CONTRACT NO.: 85739



⊕ DISTRICT HEADQUARTER | PROJECT LOCATION



BEGIN PROJECT
 STA 101+36.14 (EAST OF MAIN STREET)

BEGIN OMISSION
 STA 173+74.40 (BRIDGE APPROACH SLAB)

END OMISSION
 177+62.41 (BRIDGE APPROACH SLAB)

PROJECT ENDS
 STA 350+35

STANDARDS

STAND. NO. STAND. NAME

406201-01	MAILBOX TURNOUT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING PROJECTS
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-10	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001-02	DELINEATORS
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEED ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGNAL PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A&B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

ADT: 5800 (2023) 10% TRUCKS
MINOR ARTERIAL
DESIGN SPEED: 35 MPH & 55 MPH
3R POLICY

SCALES:	
PLAN & PROFILE	
FULL SIZE	
HORIZONTAL: 1" = 50'	
VERTICAL: 1" = 10'	
1/4 SIZE	
HORIZONTAL: 1" = 100'	
VERTICAL: 1" = 20'	

BELVIDERE ROAD: 25,005.99 FT = 4.74 MILES
 BELVIDERE ROAD OMISSION (I-90 OVERPASS): 388.01 FT = 0.07 MILES
 TOTAL LENGTH OF IMPROVEMENTS = 24,617.98 FT = 4.66 MILES

CALL J.U.L.I.E.
BEFORE YOU DIG
 1-800-892-0123
 ROSCOE TWP (T46N- R2E)
 SEC. - 33
 HARLEM TWP (T45N - R2E)
 SEC. 02, 03, 04, 11, 12, 13



THESE PLANS PREPARED BY:
 WINNEBAGO COUNTY HIGHWAY DEPARTMENT

APPROVED Feb 27 23 23
 [Signature]
 WINNEBAGO COUNTY ENGINEER

PASSED 2/28 20 23
Sha Carter
 DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
 BASED ON LIMITED
 REVIEW 2/28 20 23
Muhammad Ahmad
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

GENERAL NOTES



ROUTE 25	SECTION 21-00689-00-3P	SHEET 02 OF 29
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BELWIDERE ROAD

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0021

PAY CODE NUMBER	ITEMS	UNIT	QUANTITIES	SP. Pro.
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	465	SP
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	335	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	44,115	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	46,250	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	25,055	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,035	
40600990	TEMPORARY RAMP	SO YD	180	
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	95	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	10,090	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	65	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	821	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	4,945	SP
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	3,155	SP
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	100	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	12	
63200310	GUARDRAIL REMOVAL	FOOT	2,615	SP
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	43,605	SP
67100100	MOBILIZATION	LSUM	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	10,000	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,000	
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	47	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	84,375	
* 78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	495	
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	170	
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	156	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	80	
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	3	SP
X0327618	LANDSCAPING, SPECIAL	LSUM	1	SP
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	1	SP
X6061005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	170	SP
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	SP
* X7200105	SIGN PANEL TYPE 1 (SPECIAL)	SQ FT	219	SP
X7240110	REMOVE SIGN PANEL ASSEMBLY - TYPE A (SPECIAL)	EACH	2	SP
* X7280105	TELESCOPING STEEL SIGN SUPPORT (SPECIAL)	EACH	36	SP
* XX009521	STREET LIGHTING ASSEMBLY COMPLETE	EACH	3	SP
Z0013796	CONSTRUCTION LAYOUT	LSUM	1	SP
Z0055400	RUMBLE STRIP	FOOT	20,700	SP

* SPECIALTY ITEMS

ComEd North Park Public Water District
 c/o Nora Fernandez c/o Josh Beeman
 123 Energy Avenue, 1950 Turret Drive,
 Rockford, IL 61109 Machesney Park, IL 61115
 Phone: (815)-480-2335 Phone: (815)-633-5461

NICOR Four Rivers Sanitation Authority
 c/o Chris Winter c/o Ben Christiansen
 300 West Terra Ceita, 3333 Kishwaukee Road,
 Crystal Lake, IL 60014 Rockford, IL 61109
 Phone: (815)-455-0271 Phone: (815)-209-7952

AT&T Engineer Comcast
 c/o Rob Schwerdtfeger c/o Thomas Yuccas
 255 E. Chicago Street, 4450 Kishwaukee Road
 Elgin, IL 60120 Rockford, IL 61109
 Phone: (815)-337-4367 Phone: 224-229-4614

Charter Communications
 c/o Tom Phillips
 1346 Pfalzfeld Avenue
 Janesville, WI 53547
 Phone: (608)-373-7637

EXISTING	PROPOSED	DESCRIPTION
		TREE
		UTILITY POLE
		ELECTRIC LINE
		ELECTRIC PED/TRANS
		GAS LINE
		GAS VALVE
		TELEPHONE LINE
		TELEPHONE PEDESTAL
		TELEPHONE VAULT
		WATER LINE
		WATER VALVE
		FIRE HYDRANT
		SANITARY SEWER
		GUARD RAIL
		CONCRETE END SECTION
		METAL END SECTION
		RIGHT-OF-WAY
		DITCH FLOW
		INLET PROTECTION
		PERIMETER EROSION BARRIER
		TEMPORARY DITCH CHECK
		SIGN
		SIGNAL POST
		MAST ARM
		HANDHOLE
		HEAVY DUTY HANDHOLE
		SIGNAL CONTROLLER

GENERAL NOTES AND CONDITIONS

THE SCALE SHOWN ON THE DRAWINGS APPLIES TO THE FULL SIZE PLANS AND NOT REDUCED SIZE PLANS.

THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF ALL BENCHMARK PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATIONS, ELEVATION AND SIZE OF EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY THE ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.

UTILITIES

EXACT VERTICAL OR HORIZONTAL LOCATIONS OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. LOCATIONS AND DEPTHS SHOWN ON THESE PLANS ARE ONLY SCHEMATIC REPRESENTATION.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICTS WITH CONSTRUCTION OR HAVE THE POTENTIAL FOR CREATING FUTURE PROBLEMS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.37 OF THE STANDARD SPECIFICATIONS. THE PHONE FOR J.U.L.I.E. IS 800-892-0123. THE UTILITIES LOCATED WITHIN PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF J.U.L.I.E.

THE CONTRACTOR SHALL CONTACT BEN CHRISTIANSEN AT FRSA AT (815) 209-7952 PRIOR TO PERFORMING ANY SANITARY SEWER WORK; THIS INCLUDES WORK PERFORMED ABOVE SANITARY SEWERS WITH LESS THAN 18 INCHES OF VERTICAL SEPARATION.

EXCAVATION, GRADING AND EMBANKMENT NOTES

THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE WINNEBAGO COUNTY HIGHWAY DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.

WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACT SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS AND RIGHT-OF-WAY PINS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS BEEN WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1A. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 OR 2A SHALL BE USED

BEHIND TYPE-A GUTTER, ON ALL BACK-SLOPES AND AREAS BEHIND THE BACK-SLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT LUMP-SUM PRICE FOR LANDSCAPING SPECIAL.

PAVING

THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL RELOCATE AND REPLACE TO THE SATISFACTION OF THE ENGINEER, ALL MAILBOXES IN ACCORDANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS.

IF, DURING THE GRINDING OR RESURFACING OPERATIONS, THE EXISTING MAILBOXES BECOME A HINDRANCE, THE CONTRACTOR SHALL BE REQUIRED TO CAREFULLY REMOVE AND REINSTALL THE MAILBOXES AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE HMA SURFACE COURSE IL-9.5 MIX D, N50.

EMERGENCY ACCESS, GARBAGE PICK-UP, AND MAIL SERVICE SHALL BE MAINTAINED AT ALL TIMES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND / OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE COUNTY TO RESIDENTS. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.

THE CONTRACTOR SHALL CONSTRUCT ALL PRIVATE DRIVEWAYS AND FIELD ENTRANCES IN ACCORDANCE WITH THE PLANS. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS DURING ALL STAGES OF CONSTRUCTION.

THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, UNLESS APPROVED BY THE ENGINEER.

HMA BINDER COURSE SHALL BE PLACED TO CORRECT SUPER ELEVATION SLOPES BETWEEN STATION: 182+86.99 TO STATION: 188+34.03 AS PER PLANS. THE SUPER-ELEVATION CORRECTIONS SHALL BE COMPACTED PRIOR TO PLACING THE HMA SURFACE MIX. THE LAYOUT FOR SUPER ELEVATION HMA BINDER COURSE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR CONSTRUCTION LAYOUT.

HMA SURFACE COURSE SHALL BE PLACED OVER AREAS OF HMA SHOULDERS, PE/FE DRIVEWAYS, MB TURN OUTS, AND GUARDRAIL WIDENING AREAS SIMULTANEOUSLY WITH THE EXISTING MAINLINE PAVING OPERATION. HMA SURFACE COURSE CROSS SLOPES FOR THE MAINLINE PAVEMENT, HMA SHOULDERS, PE/FE DRIVEWAYS, MB TURN OUTS, AND GUARDRAIL WIDENING AREAS SHALL BE MAINTAINED ACCORDING TO THE TYPICAL SECTIONS.

INCIDENTAL HMA SURFACING SHALL BE PLACED ON PUBLIC STREET/SIDE ROADS ON BLADED OFF OR MILLED SURFACE AS PER PLANS BUT NOT ON PRIVATE DRIVEWAYS, FIELD ENTRANCES OR MAIL-BOX TURN OUT AREAS AS IT SHALL BE PLACED WITH HMA SURFACE COURSE AND QUANTITY THEREOF WILL BE PAID AT THE CONTRACT UNIT PRICE PER TON FOR HMA SURFACE COURSE.

GUARDRAIL

GUARDRAIL REMOVAL SHALL INCLUDE DISMANTLING, DISPOSAL AND RESTORATION OF THE SITE IN PREPARATION FOR INSTALLATION OF NEW GUARDRAIL.

GUARDRAIL WEAK POSTS ATTACHED TO STRUCTURES 101-5096 (WCHD 25-07) AND WCHD 25-17 SHALL BE LEFT IN PLACE. ALL GUARDRAIL WEAK POSTS SHALL BE CUT TO THE NEW HEADWALL HEIGHT CREATED BY THE CONCRETE CURB, TYPE B (SPECIAL) HEADWALL EXTENSION. THE COST OF CUTTING THE GUARDRAIL WEAK POSTS WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR GUARDRAIL REMOVAL.

THE COST OF REMOVING AND REPLACING EARTH AND SHOULDER MATERIAL NECESSARY FOR INSTALLATION OF STRONG POST GUARDRAIL ATTACHED TO CULVERT WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STRONG POST GUARDRAIL ATTACHED TO CULVERT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL FIELD CONDITIONS WHICH RELATE TO THIS ITEM AS WELL AS TO ALL ITEMS ASSOCIATED WITH THIS CONTRACT.

ANY COST ASSOCIATED WITH FURNISHING AND INSTALLING SHORTER OR LONGER POSTS FOR THE GUARDRAIL ATTACHED TO STRUCTURES WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STRONG POST GUARDRAIL ATTACHED TO CULVERT.

WORK AREAS SHALL BE LEFT IN SAFE AND ORDERLY CONDITION. NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROAD OR SHOULDERS DURING NON-WORKING HOURS.

ALL GUARDRAIL AND TERMINAL MARKERS SHALL BE INSTALLED IN THE SAME DAY THE GUARDRAIL AND TERMINAL SECTIONS TO WHICH THEY ARE TO BE ATTACHED ARE INSTALLED. GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS. ALL GUARDRAIL DELINEATORS MUST BE INSTALLED IN THE SAME DAY AS THEIR CORRESPONDING GUARDRAIL AND TERMINAL SECTIONS. GUARDRAIL MARKERS, TERMINAL MARKERS AND GUARDRAIL DELINEATORS WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS; TRAFFIC BARRIER TERMINAL, TYPE 6A; AND TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT.

WHERE GUARDRAIL IS TO BE REMOVED ON BOTH SIDES OF THE ROAD, REPLACEMENT ON ONE SIDE SHALL BE COMPLETE BEFORE REMOVAL ON THE SECOND SIDE SHALL BEGIN.

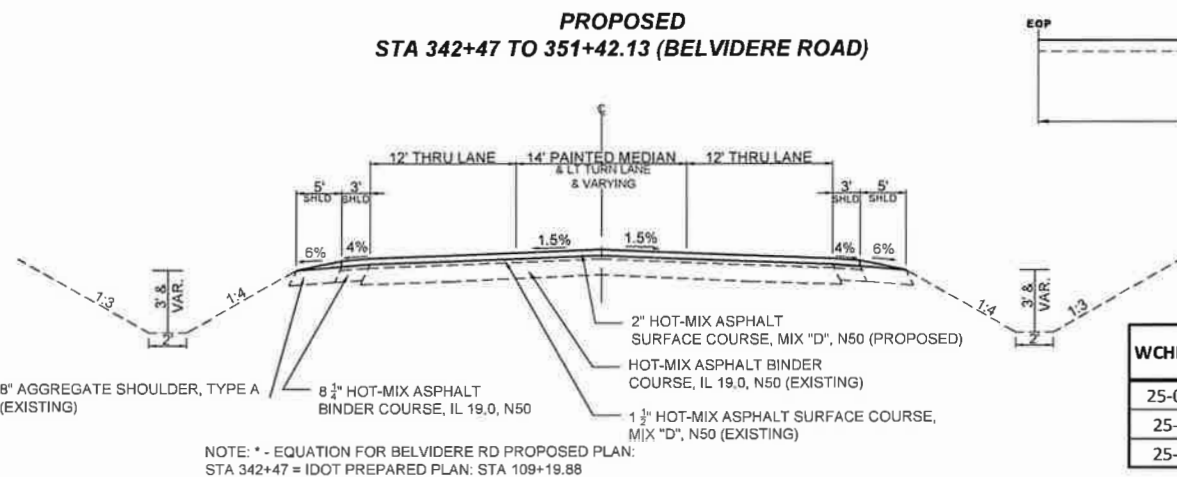
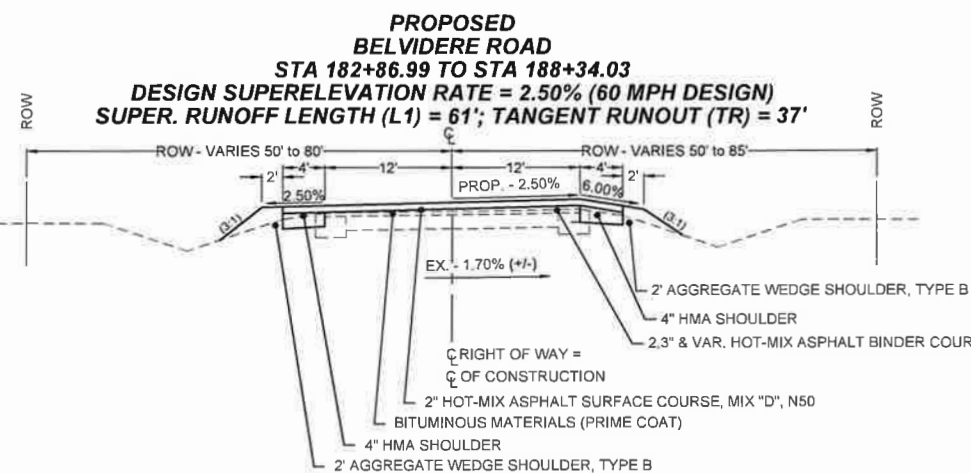
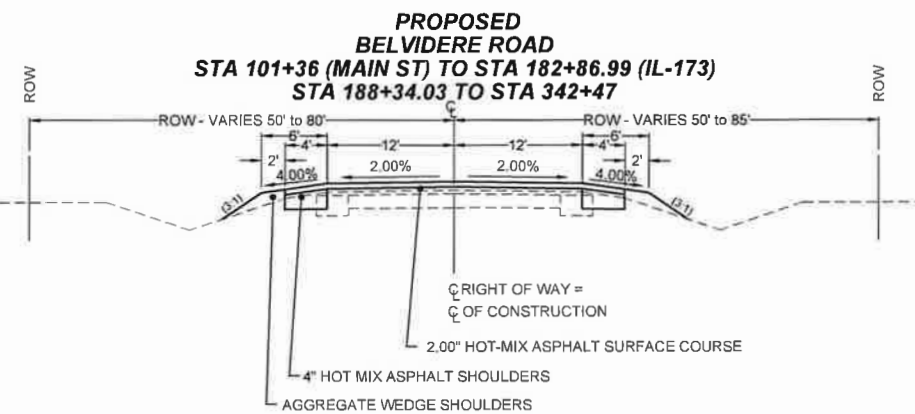
AT BRIDGE LOCATIONS, FLAGGERS WILL NOT BE ALLOWED TO STAND ON THE BRIDGE TO PERFORM FLAGGING OPERATIONS. FLAGGERS WILL BE REQUIRED TO OPERATE AT OR NEAR THE BRIDGE APPROACHES IN ORDER TO PROVIDE AN ACCEPTABLE ESCAPE ROUTE.

TYPICAL SECTIONS

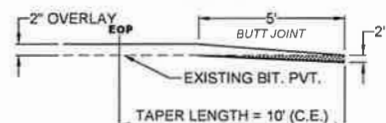
PAVEMENT DETAILS

DETAILS

Location & Mixture Use(s):	Belvidere Rd		
	Surface	Binder	Shoulder Binder
PG:	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.0 @ N50	4.0 @ N50	4.0 @ N50
Mixture Composition	IL 9.5	IL 9.5FG	IL 19.0
Friction Aggregate	D	N/A	N/A
Mix Weight	112 lb/sy/in	N/A	N/A
Quality Management Program	QC/QA	QC/QA	QC/QA
Sublot Size	N/A	N/A	N/A
Material Transfer Device	N/A	N/A	N/A
Minimum Lift Thickness	1.5"	1.5"	2.25"

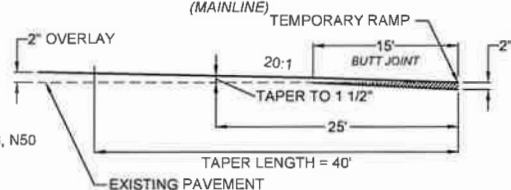


HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT & TAPER DETAIL (SIDE - ROADS ONLY)

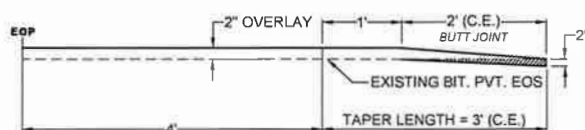


NOTE: THE THICKNESS OF INCIDENTAL BITUMINOUS SURFACING FOR ALL SIDE ROADS SHALL BE 1.5\"/>

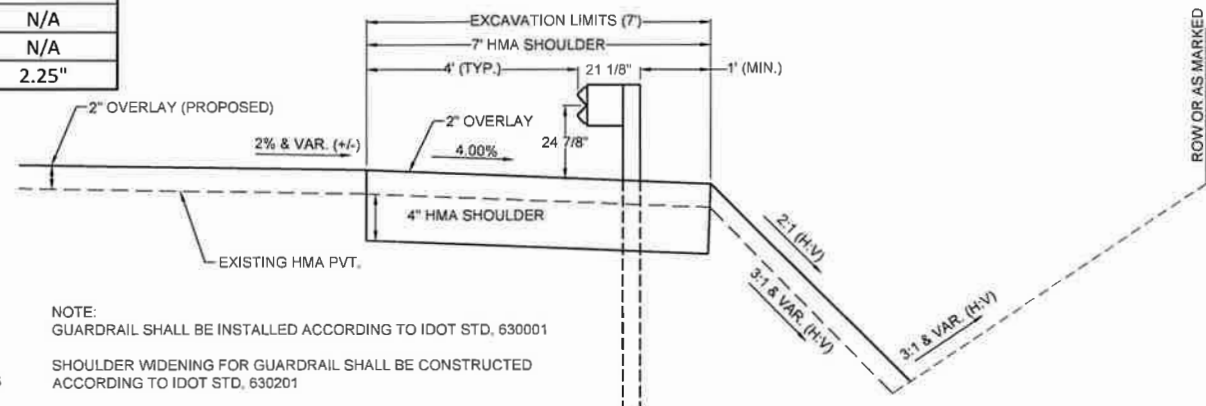
HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT & TAPER DETAIL (MAINLINE)



HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT & TAPER DETAIL (PE, FE, MB TURNOUT)

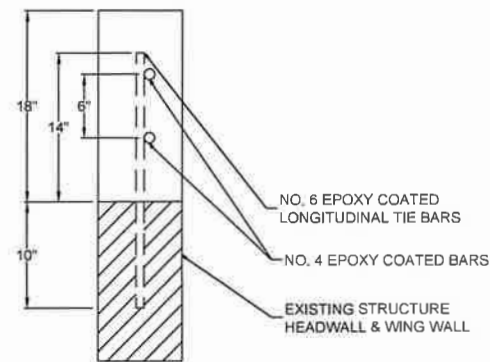


PROPOSED GUARDRAIL DETAIL HOT-MIX ASPHALT SHOULDER WIDENING

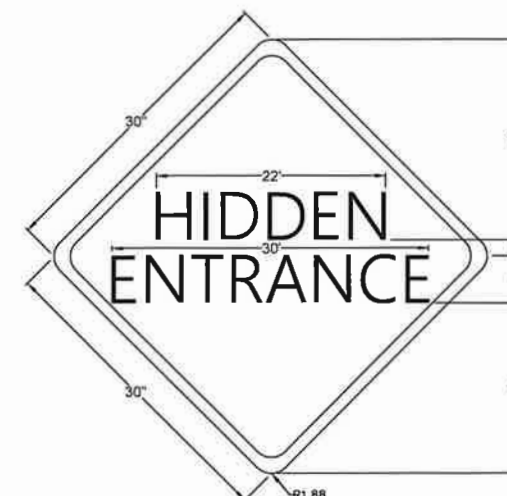


NOTE: GUARDRAIL SHALL BE INSTALLED ACCORDING TO IDOT STD, 630001
 SHOULDER WIDENING FOR GUARDRAIL SHALL BE CONSTRUCTED ACCORDING TO IDOT STD, 630201
 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS SHALL BE CONSTRUCTED ACCORDING TO IDOT STD, 630301

PROPOSED CURB DETAIL CONCRETE CURB, TYPE B, SPECIAL STA 214+50 TO 215+05 STA 322+36 TO 322+66



SIGN PANEL, TYPE 1 (SPECIAL) W8-CUSTOM SIGN STA 315+00 & STA 294+00



WCHD SN	IDOT SN	Structure Station	Facility Carried	Feature Crossed	County Highway	Location Description	Approximate Address	Existing Aggregate Shoulder Width (FT)	Proposed HMA Shoulder Width (FT)
25-05A	N/A	173+74	Belvidere Road	Unnamed	25	0.82 Mi E of Geneva Drive	6502 Belvidere Road	6	7
25-07	101-5096	214+73	Belvidere Road	McDonald Creek	25	0.7 Mi NW of Swanson Road	9702 Belvidere Road	6	7
25-17	N/A	322+36	Belvidere Road	Unnamed	25	0.48 Mi S of Brown Road	8119 Belvidere Road	6	7

NOTE: * - MAINTAIN EXISTING ROADSIDE SLOPES. EXISTING SLOPES ESTIMATED BETWEEN 3:1 AND 4:1.



ITEM: 40600275		BIT MATLS -PR CT			
STATION TO STATION	AREA(SQYD)	RATE (LB/SY)	Number of Application	QUANTITY (POUND)	
101+36.00 -173+74.40	6256.36	2.00	1.00	12515	
177+62.41 -342+47.00	14387.64	2.00	1.00	28775	
166+62 -186+18 (LT SIDE)	497.50	2.00	1.00	995	
170+90 - 185+79 (RT SIDE)	341.83	2.00	1.00	684	
213+63 -217+94 (LT SIDE)	137.67	2.00	1.00	275	
211+66 -216+59 (RT SIDE)	158.50	2.00	1.00	317	
320+51 -324+32 (LT SIDE)	121.83	2.00	1.00	244	
319+51- 324+32 (RT SIDE)	154.33	2.00	1.00	310	
TOTAL				44115	

ITEM: 40600982		HMA SURF REM BUTT JT	
STATION	FEATURE	O/S	QUANTITY (SQYD)
101+36.14	MAIN LINE	N/A	50.00
101+61	PE	RT	4.89
102+00	PE	RT	2.56
102+71	PE	RT	3.78
104+02	PEARL STREET	RT	17.88
104+07	PEARL STREET	LT	22.36
107+25	PE	LT	10.00
108+12	PAPPY BROWN DR./VIN	RT	18.33
110+16	THOMPSON DR.	LT	22.78
111+24	GENEVA DR.	RT	20.00
114+21	PE	RT	6.89
115+70	PE	RT	4.89
115+72	FE	LT	6.56
116+32	PE	RT	6.67
125+45	FE	RT	5.33
127+11	FE	LT	9.00
127+21	PE	RT	8.00
128+23	PE	RT	6.33
130+66	PE	LT	7.78
131+62	PE	LT	6.56
135+47	FE	LT	5.89
142+58	PE	RT	4.89
143+27	PE	LT	10.44
144+66	MB-Turnout	LT	7.22
144+80	PE	RT	4.00
148+00	PE	LT	7.22
151+15	FE	RT	0.00
152+41	PE	LT	9.78
158+72	APPEGATE DR.	RT	21.04
158+76	PE	LT	7.00
159+75	PE	LT	4.89
162+16	PE	LT	8.67
164+57	PE	RT	7.78
164+64	MB-Turnout	LT	7.00
166+54	MB-Turnout	LT	7.00
173+74.4	MAIN LINE	N/A	40.00
177+62.41	MAIN LINE	N/A	40.00
186+38	PE	RT	6.78
186+44	HAMBURG RD.	LT	14.11
191+06	HAWTHORNE RD.	RT	26.60
194+90	PE	LT	9.22
196+76	COUNTY KNOLLS	RT	18.47
200+66	PE	LT	9.56
201+68	PE	LT	8.56
205+25	PE	LT	7.56
207+62	PE	LT	9.33
209+32	PE	LT	5.89
211+73	FE	RT	5.56
213+67	PE	LT	9.67
217+25	PE	RT	6.56
224+09	FE	RT	7.56
225+10	FE	LT	7.56
241+73	PE	LT	10.33
241+96	FE	RT	7.22
247+18	FE	RT	5.67
248+82	ATWOOD RD.	LT	27.78
262+00	FE	RT	3.89
263+12	FE	LT	6.78
267+92	SWANSON RD.	RT	32.78
267+93	PE	LT	5.78

ITEM: 40600982		HMA SURF REM BUTT JT	
STATION	FEATURE	O/S	QUANTITY (SQYD)
275+32	FE	RT	5.33
280+40	PE	RT	11.22
282+80	PE	LT	5.89
282+90	MB-Turnout	RT	8.89
284+21	PE	RT	6.67
285+78	MB-Turnout	RT	7.89
286+97	PE	LT	5.89
287+77	MB-Turnout	RT	8.67
287+82	PE	LT	5.33
292+84	PE	LT	5.78
292+84	MB-Turnout	RT	8.67
296+51	PE	RT	12.78
296+70	FE	LT	10.00
297+29	BROWN RD.	LT	23.13
299+40	PE	RT	7.11
301+54	PE	LT	6.56
302+89	MB	RT	11.89
303+05	PE	LT	6.22
304+99	MB-Turnout	RT	11.89
305+17	PE	LT	6.33
306+89	MB-Turnout	RT	8.67
306+91	PE	LT	7.78
309+75	FE	LT	5.33
310+75	MB-Turnout	RT	8.67
310+77	PE	LT	7.78
315+25	PE	LT	6.33
315+27	MB-Turnout	RT	8.67
316+37	FE	RT	6.67
324+41	PICKENS RD.	LT	20.97
326+95	PE	RT	6.67
329+90	PE	RT	6.67
340+29	FE	LT	5.56
350+35	MAIN LINE	N/A	66.67
TOTAL			1035.00

ITEM :40600370 LONGITUDINAL JOINT SEALANT	
STATION TO STATION	QUANTITY (FOOT)
101+36.00 - 173+74.4	7238
177+62.41- 342+38.25	16485
342+38.25- 350+35	802
345+05 - 350+35	530
TOTAL	25055

ITEM: 40600290		BIT MATLS -TACK CT				
STATION TO STATION	AREA (SQYD)	RATE (GAL/SY)	DENSITY LB/GAL	# OF APPLICATIONS	QUANTITY (POUND)	
101+36.00 -173+74.40		25558.76	0.06	8.40	1	12885
177+62.41 -342+38.00		58346.58	0.06	8.40	1	29405
342+38.00 -350+89		4116.44	0.06	8.40	1	2075
182+86.99 -188.34.03-SE-Hor.Curve		1458.77	0.06	8.40	1	735
Tollway Bridge -Guardrails-3' wide		839.33	0.06	8.40	1	420
McDonald Creek -Guardrails-3' wide		296.17	0.06	8.40	1	150
Un-named Creek GuardRails'-3' wide		276.17	0.06	8.40	1	140
ALL -PE/FE/MB -INCIDENTAL		869.50	0.06	8.40	1	440
TOTAL						46250

ITEM: 40604060		HMA SC II-9.5 D N-50			
STATION TO STATION	AREA(SQYD)	DENSITY	LIFT THICKNESS(INCH)	QUANTITY (TON)	
101+36.00 -173+74.40	25558.76	112.00	2.00	2862.6	
177+62.41 -342+38.00	58346.58	112.00	2.00	6534.8	
342+38 -350+89	4116.44	112.00	2.00	461.0	
ALL -PE/FE/MB -INCIDENTAL	869.50	112.00	1.50	73.0	
SN101-9917 -NR.Guardrails-3'	839.33	112.00	2.00	94.0	
SN101-5096 -NR.-Guardrails-3'	296.17	112.00	2.00	33.2	
SN-25-17 Creek-NR. GuardRails'	276.17	112.00	2.00	30.9	
TOTAL				10,090.0	

ITEM: 40602965		HMA B C II-9.5FG, N-50			
STATION TO STATION	AREA(SQYD)	DENSITY	LIFT THICKNESS(INCH)	QUANTITY (TON)	
182+86.99 -188.34.03	1458.77	112.00	1.15	95.0	
TOTAL				95.0	

ITEM: 40800050		INCIDENTAL HMA SURFACE			
STATION	TYPE	STREET/ROAD	O/S	QUANTITY(TON)	
101+36.14	MAIN LINE	BELVIDERE RD	N/A	0.0	
104+02	STREET	PEARL ST.	RT	3.7	
104+07	STREET	PEARL ST.	LT	4.8	
108+12	STREET	PAPPY BROWN/ VINE ST.	RT	3.8	
110+16	STREET	THOMPSON DR.	LT	4.9	
111+24	STREET	GENEVA DR.	RT	4.2	
158+72	STREET	APPEGATE DR.	RT	4.2	
173+74.4	MAIN LINE	BRIDGE -I-90	N/A	0.0	
177+62.41	MAIN LINE	BRIDGE -I-90	N/A	0.0	
186+44	STREET	HAMBURG RD.	LT	5.5	
191+06	STREET	HAWTHORNE RD	RT	4.2	
196+76	STREET	COUNTRY KNOLL	RT	4.0	
248+82	STREET	ATWOOD RD	LT	5.8	
267+92	STREET	SWANSON RD	RT	7.7	
297+29	STREET	BROWN RD.	LT	5.6	
324+41	STREET	PICKEN RD.	LT	4.2	
350+35	MAIN LINE	BELVIDERE RD	N/A	0.0	
TOTAL				65.0	

ITEM: 40201000		AGGREGATE -TEMPORARY ACCESS	
STATION TO STATION	QUANTITY(TON)		
101+60 - 111+24	14.5		
111+25 - 158+72	72.2		
158+73 - 173+74	26.9		
177+62 - 248+82	73.3		
248+83 - 297+29	70.9		
297+29 - 324+41	66.2		
324+42- 340+29	11.0		
TOTAL	335.0		

ITEM: 20200600		EXC & GR EX SHOULDER	
STATION TO STATION	NET LENGTH OF SHOULDER (LFT)	UNITS	
101+36.00 - 173+74.40	14076.8	141	
177+62.41 -342+38.00	32372.2	324	
TOTAL		465	

ITEM: 40600990		TEMPORARY RAMP			
STATION	TYPE	O/S	STREET/ROAD	QUANTITY (SQYD)	
101+36.14	MAIN LINE	N/A	BELVIDERE RD	10.7	
104+02	STREET	RT	PEARL ST.	8.0	
104+07	STREET	LT	PEARL ST.	8.7	
108+12	STREET	RT	VINE ST.	8.3	
110+16	STREET	LT	THOMPSON DR.	8.3	
111+24	STREET	RT	GENEVA DR.	8.3	
158+72	STREET	RT	APPEGATE DR.	8.3	
173+74.4	MAIN LINE	N/A	BELVIDERE RD	21.4	
177+62.41	MAIN LINE	N/A	BELVIDERE RD	21.4	
186+44	STREET	LT	HAMBURG RD.	9.3	
191+06	STREET	RT	HAWTHORNE RD.	8.0	
196+76	STREET	RT	COUNTRY KNOLLS	8.0	
248+82	STREET	LT	ATWOOD RD.	11.7	
267+92	STREET	RT	SWANSON RD.	11.7	
297+29	STREET	LT	BROWN RD.	8.0	
324+41	STREET	LT	PICKEN RD.	8.0	
350+35	MAIN LINE	N/A	BELVIDERE RD	10.7	
TOTAL				180.0	

ITEM: 48203100		HMA SHOULDERS			
STATION TO STATION	AREA(SQYD)	DENSITY	LIFT THICKNESS(INCH)	QUANTITY(TON)	
101+36.00 -173+74.40	6256.36	112.00	4.00	1405.0	
177+62.41 -342+47.00	14387.64	112.00	4.00	3223.0	
166+62 -186+18 (LT SIDE)	497.5	112.00	4.00	112.0	
170+90 - 185+79 (RT SIDE)	341.83	112.00	4.00	77.0	
213+63 -217+94 (LT SIDE)	137.67	112.00	4.00	30.0	
211+66- 216+59 (RT SIDE)	158.5	112.00	4.00	35.0	
320+51 -324+32 (LT SIDE)	121.83	112.00	4.00	28.0	
319+51- 324+32 (RT SIDE)	154.33	112.00	4.00	35.0	
TOTAL				4945.0	

ITEM 48102100		AGGREGATE WEDGE SHOULDER, TYPE B			
Station	Length	Length of Shoulder-LFT	Volume (CYD)	QUANTITY (TON)	
101+36.00 - 173+74.4	7238	14477	107.24	219.8	
177+62.41- 342+38.25	16485	32969	244.22	500.6	
ALL PE/FE/MB ADJUSTMENT	23723	LS	50.00	100.0	
TOTAL				820.5	



ITEM: X7200105 SIGN PANEL T1 SPL						ITEM X7280105												
SIGN CODE	DIRECTION/ DETAIL	SIGN PANEL SIZE	SIGN PANEL AREA-SQFT	SIGN QUANTITY (EACH)	QUANTITY (SQFT)	LOCATION -STATION-O/S										TELES STL		
																SIN SUP SPL		
																QTY (EACH)		
W1-2R	RIGHT-CURVE	30" X 30"	6.25	5	31.25	109+50 RT	133+00 LT	139+50 RT	226+00 RT	292+00 RT							5	
W1-2L	LEFT-CURVE	30" X 30"	6.25	5	31.25	117+00 LT	122+50 RT	156+00 LT	245+00 LT	302+00 LT							5	
W-1-2 Ra(35)	RIGHT-CURVE	36" X36"	9.00	1	9.00	228+75 RT											1	
W-1-2La(35)	LEFT-CURVE	36" X36"	9.00	1	9.00	241+25 LT											1	
W1-6R	RIGHT-ARROW	48" X24"	8.00	2	16.00	233+75 LT	294+50 LT										4	
W1-6L	LEFT-ARROW	48" X24"	8.00	2	16.00	236+25 LT	298+50 LT										4	
W1-8L	RIGHT-CHEVRON	18"X24"	3.00	14	42.00	112+50 LT	114+50 LT	126+25 RT	144+00 LT	146+00 LT	148+35 LT	150+25 LT					14	
						231+25 LT	232+50 LT	235+00 LT	237+50 LT	238+75 LT	298+50 LT	128+60 RT						
W1-8R	LEFT-CHEVRON	18"X24"	3.00	14	42.00	112+50 LT	114+50 LT	126+25 RT	144+00 LT	146+00 LT	148+35 LT	150+25 LT					0	
						231+25 LT	232+50 LT	235+00 LT	237+50 LT	238+75 LT	298+50 LT	128+60 RT						
W8-CUSTOM SIGN	HIDDEN DRIVEWAY	36" X36"	9.00	2	18.00	315+00 LT	294+00 RT										2	
W13-1 P(35)	PLAQUE	18"X 18"	2.25	2	4.50	226+00 RT	245+00 LT										0	
					TOTAL	219.00											TOTAL	36

ITEM: X7240110 REMOV SN PN ASSY TA SP			
STATION	O/S	SIGN DETAIL	EACH
245+25	LT	W1-2 LEFT	1
226+50	RT	W-1-2 RIGHT	1
TOTAL			2

ITEM: XX009521 ST LIGHT ASSEMBLY COMP			
INTERSECTION	STATION	O/S	QUANTITY (EACH)
APPEGATE DR.	159+10	30 RT	1
HAMBURG RD.	186+10	35 LT	1
ATWOOD RD.	248+40	40 LT	1
TOTAL			3

ITEM: 80400100 ELECTRIC SERVICE INSTALLTION			
INTERSECTION	STATION	O/S	QUANTITY (EACH)
APPEGATE DR.	159+10	30 RT	1
HAMBURG RD.	186+10	35 LT	1
ATWOOD RD.	248+40	40 LT	1
TOTAL			3

ITEM: 64200108 SHOULDER RUM STRIP 8			
STATION TO STATION	SHOULDER LENGTH	Exclude - Side Roads & PE/MB/FE (FOOT)	QUANTITY (FOOT)
101+36.00 - 173+74.4	14475	1660	12815
177+62.41-342+38.25	32970	2980	29990
342+38.25-350+35.00	845	45	800
TOTAL			43605

ITEM: 20055400 RUMBLE STRIP			
STATION TO STATION	ROAD LENGTH (LFT)	Exclude - Side Roads & PE/MB/FE (FOOT)	QUANTITY (FOOT)
101+36.00 - 173+74.4	7238	3455	3785
177+62.41-342+38.25	16485	230	16255
342+38.25-350+35.00	860	200	660
TOTAL			20700

ITEM: X6026050 SANITARY MANHOLE ADJ			
INTERSECTION	STATION	O/S	QUANTITY (EACH)
THOMPSON DR.	110+16	18 LT	1
TOTAL			1

ITEM: 63000001 SPBGR TY A 6FT POSTS			
STATION TO STATION	O/S	QUANTITY (FOOT)	
167+40	172+90	LT	550.0
171+68	173+30.5	RT	163.0
185+40	178+15	LT	725.0
185+01	178+51	RT	650.0
214+41	214+66	LT	25.0
215+03.5	217+16	LT	213.0
212+44	214+44	RT	200.0
214+81.5	215+81.5	RT	100.0
321+29	322+29	LT	100.0
322+41.5	323+56.5	LT	116.0
320+29	322+41.5	RT	213.0
322+54	323+54	RT	100.0
TOTAL			3155.0

ITEM: 63100167 TR BAR TRM T1 SPL TAN			
STATION TO STATION	O/S	QUANTITY (EACH)	
166+90	167+40	LT	1
171+18	171+68	RT	1
185+90	185+40	LT	1
185+51	185+01	RT	1
213+91	214+41	LT	1
217+16	217+66	LT	1
211+94	212+44	RT	1
215+81.5	216+31.5	RT	1
320+79	321+29	LT	1
323+56.5	324+06.5	LT	1
319+79	320+29	RT	1
323+54	324+04	RT	1
TOTAL			12

ITEM: 63200310 GAURDRAIL REMOV			
STATION TO STATION	O/S	QUANTITY (FOOT)	
171+01	173+46.50	LT	246.00
177+80	181+75	LT	395.00
171+20	173+47	RT	227.00
178+00	181+70	RT	370.00
213+84.25	216+97	LT	313.00
212+40.25	215+90	RT	350.00
320+82	324+11.25	LT	330.00
320+14	323+97.25	RT	384.00
TOTAL			2615.00

ITEM: 63000030 SPBGR ATT TO CULVERT			
STATION TO STATION	O/S	QUANTITY (FOOT)	
214+66	215+03.5	LT	37.5
214+44	214+81.5	RT	37.5
322+29	322+41.5	LT	12.5
322+41.5	322+54	RT	12.5
TOTAL			100.0

ITEM: 63100087 TRAF BAR TERM T6 A			
STATION TO STATION	O/S	QUANTITY (EACH)	
172+90	173+27.5	LT	1
173+30.5	173+68	RT	1
178+15	177+77.5	LT	1
178+51	178+13.5	RT	1
TOTAL			4

ITEM X6061005 CONC CURB TYPE B, SPL			
STATION TO STATION	O/S	QUANTITY (FOOT)	
214+50	215+05	LT	55.0
214+35	214+90	RT	55.0
322+36	322+66	LT	30.0
322+36	322+66	RT	30.0
TOTAL			170.0

ITEM: 78300200 RAISED REF PVT MK REM			
LOCATION	STATION - STATION	QUANTITY (EACH)	
BELVIDERE ROAD	342+75 - 350+90	80	
TOTAL		80	

ITEM: 78001180 PAINT PVT MK LINE 24	
CORSS STREET/ROAD	QUANTITY -FOOT
PEARL ST.	12.0
PEARL ST.	12.0
VINE ST.	12.0
THOMPSON DR.	12.0
GENEVA DR.	12.0
APPEGATE RD.	12.0
HAMBORG RD.	12.0
HAWTHORNE RD.	12.0
COUNTRY KNOLLS	12.0
ATWOOD RD.	12.0
SWANSON RD.	12.0
BROWN RD.	12.0
PICKEN RD.	12.0
TOTAL	156.0

ITEM: 78001110 PAINT PVT MK LINE 4			
STATION	TO	STATION	QUANTITY -FOOT
STA: 101+36.14	-	STA: 173+74.40	28,953.00
STA: 177+62.41	-	STA: 342+38.25	50,922.00
STA 342+38.25	-	STA:350+35.00	4500.00
TOTAL			84,375.00

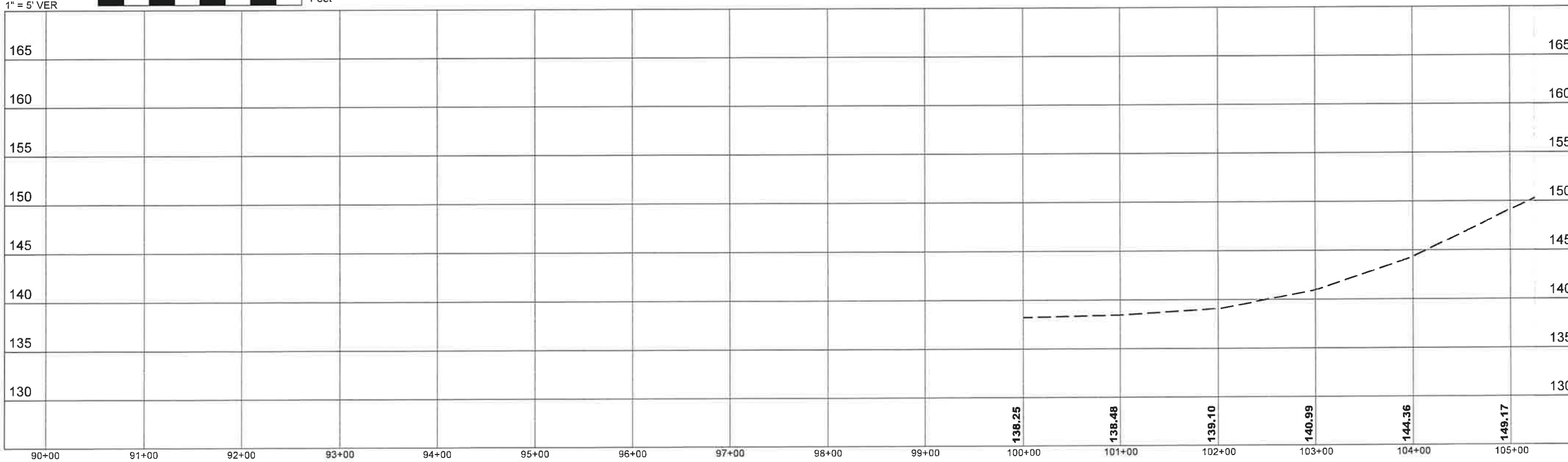
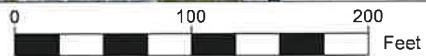
ITEM: 78001100 PT PVT MK LTRS & SYMB		
STATION	PARTICULAR	AREA(SQ.FT)
STA: 350+50	WT. LEFT TURN ARROW	15.6
STA: 349+75	WT. LEFT TURN ARROW	15.6
STA: 349+00	WT. LEFT TURN ARROW	15.6
TOTAL		47.0

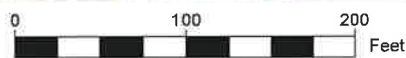
ITEM: 78001140 PAINT PVT MK LINE 8		
STATION-TO-STATION	PARTICULARS	QUANTITY -FOOT
STA:350+81 -STA 350+35	WHITE PAINTED ISALND	220.0
STA:348+31 -STA 350+35	LT TURN LANE	275.0
TOTAL		495.0

ITEM: 78001150 PAINT PVT MK LINE 12		
STATION-TO-STATION	PARTICULARS	QUANTITY -FOOT
STA: 342+66 -STA:348+31	PAINTED MEDIAN	170.0
TOTAL		170.0



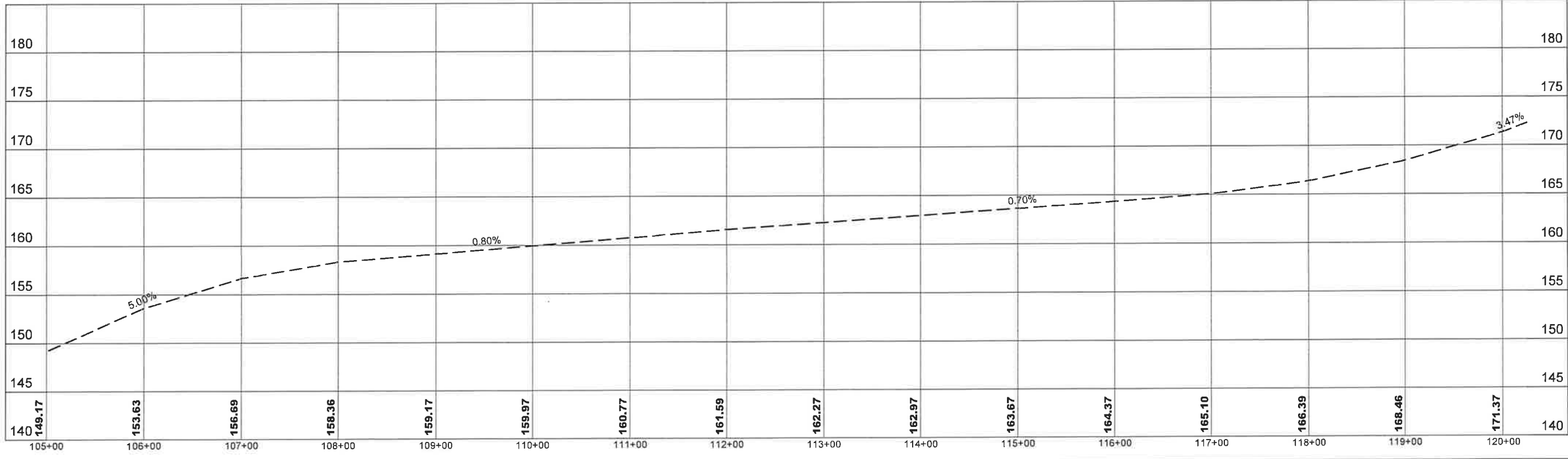
SCALES:
 1" = 50' HOR
 1" = 5' VER



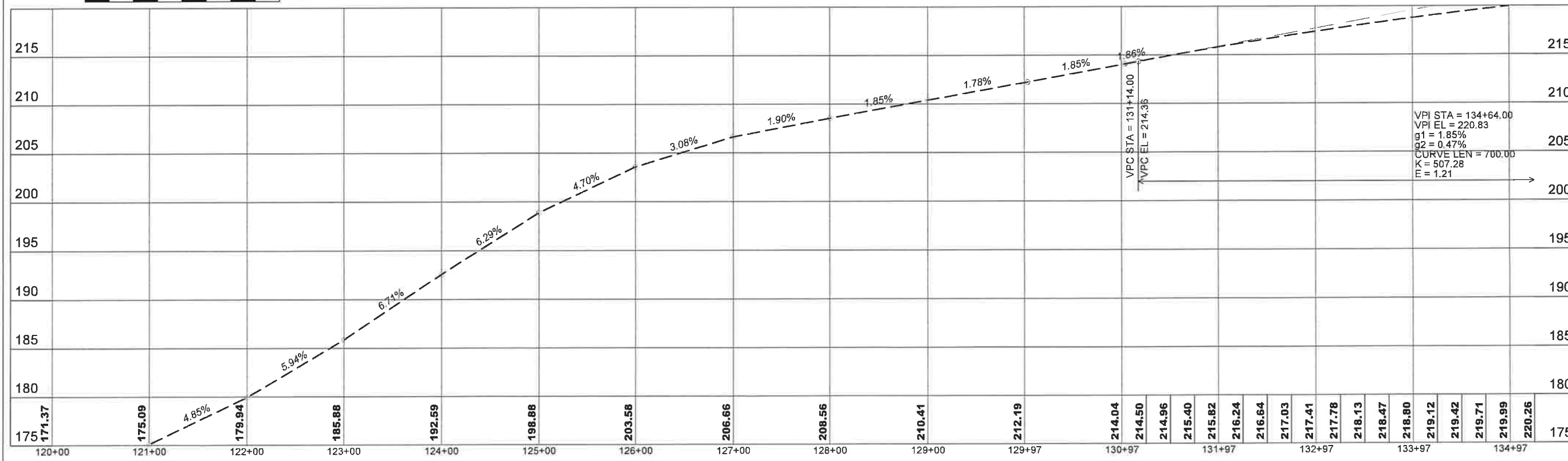


CIRCULAR
 PI Sta = 112+63.45
 D = 31°30'00"
 R = 1011.10
 T = 285.16
 L = 555.88
 E = 39.44
 Existing e = 7.30%
 T.R. = 28.00
 S.E. Run = 66.00
 P.C. Sta. = 109+78.29
 P.T. Sta. = 115+34.17

SCALES:
 1" = 50' HOR
 1" = 5' VER



BELVIDERE ROAD
 PLAN & PROFILE

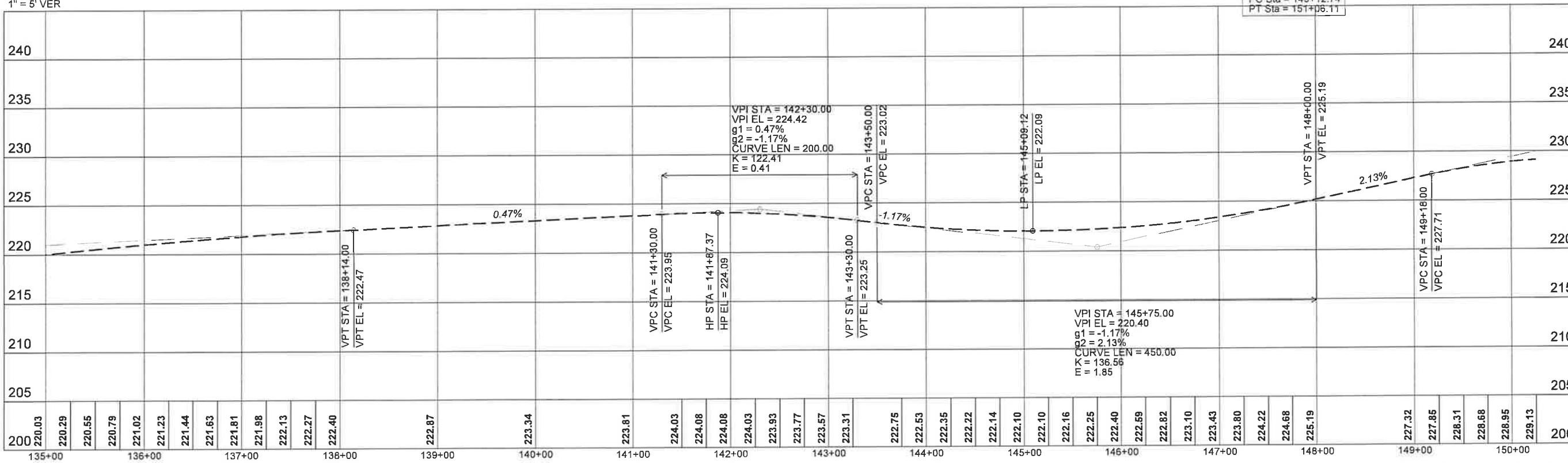


BELVIDERE ROAD
PLAN & PROFILE



SCALES:
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1" = 5' VER

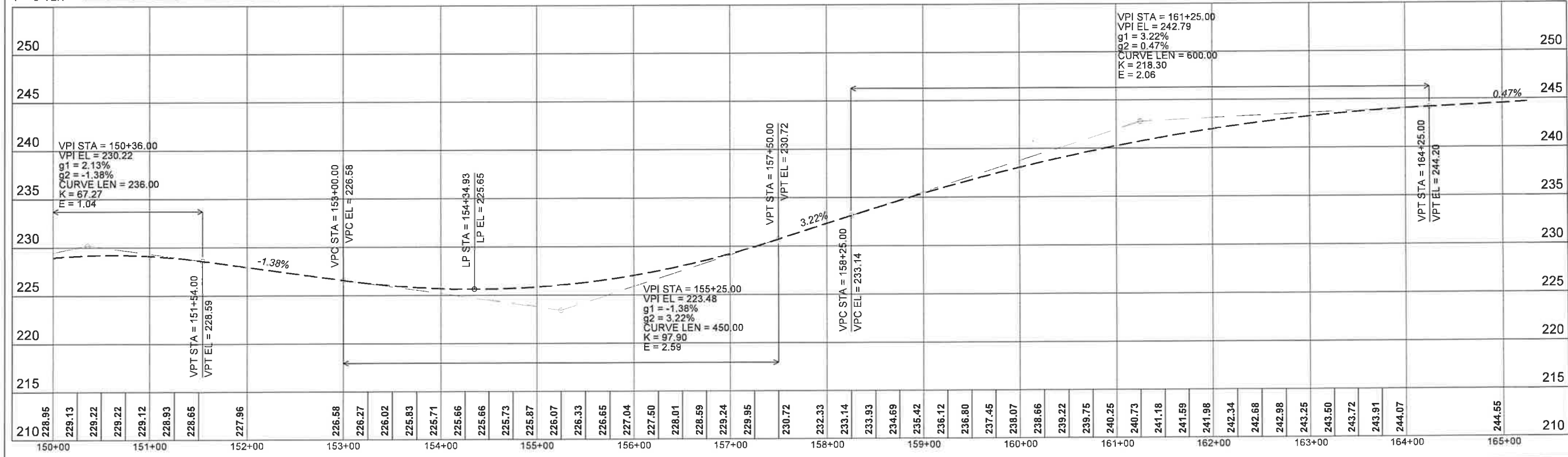
CIRCULAR
PI Sta = 148+13.74
D = 23°44'00"
R = 1432.48
T = 301.00
L = 593.37
E = 31.28
Existing e = 7.10%
T.R. = 37.00
S.E. Run = 147.00
PC Sta = 145+12.74
PT Sta = 151+06.11



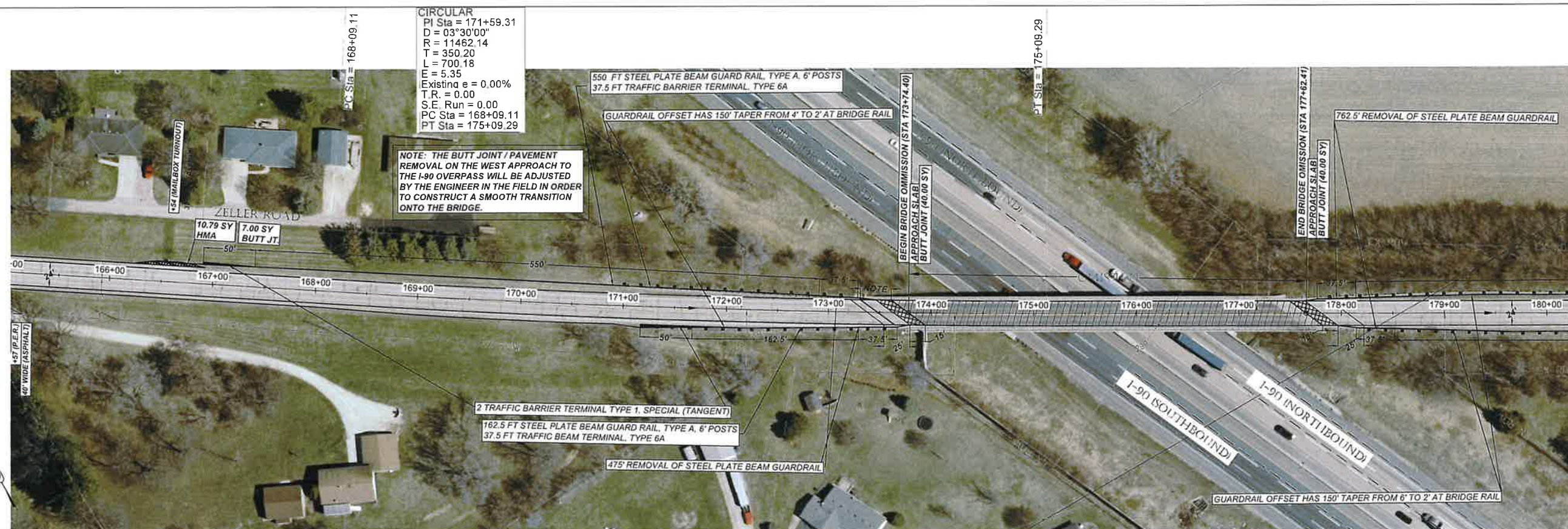
BELVIDERE ROAD
PLAN & PROFILE



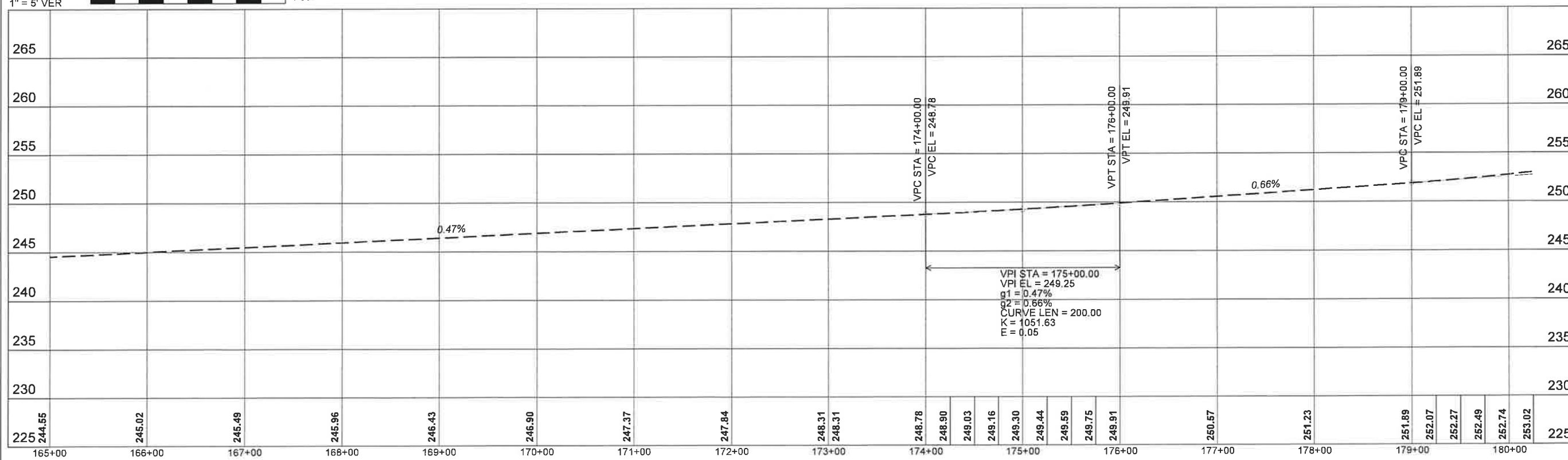
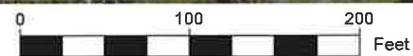
SCALES
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 1" = 5' VER

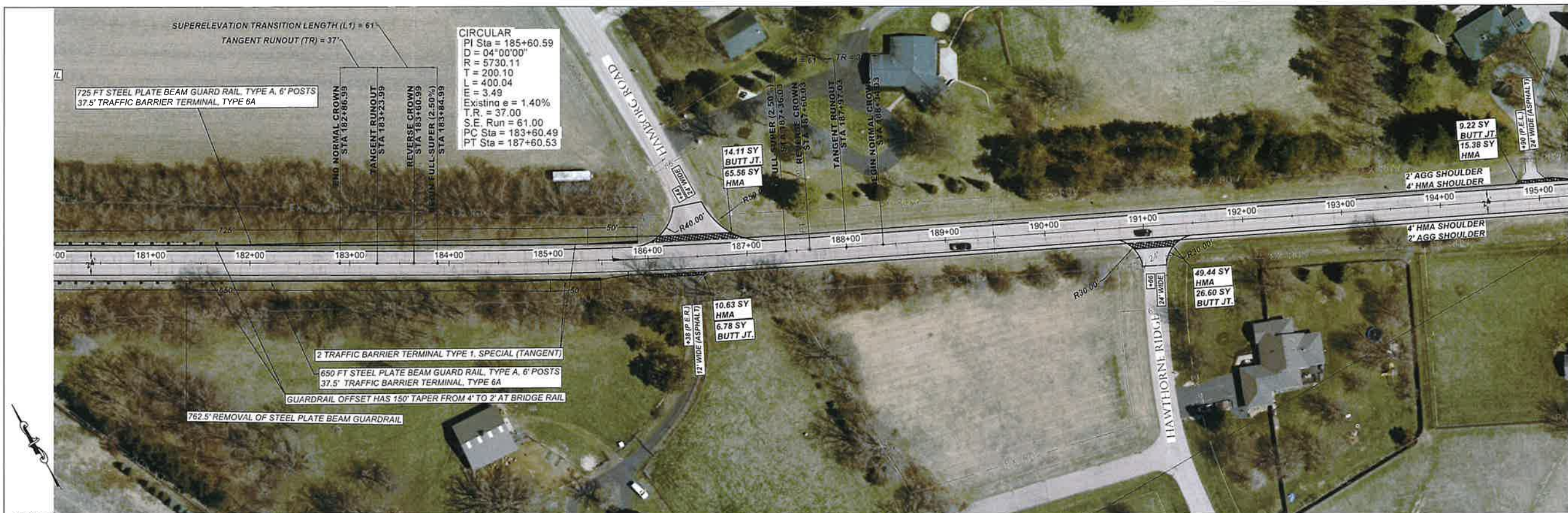


BELVIDERE ROAD
 PLAN & PROFILE

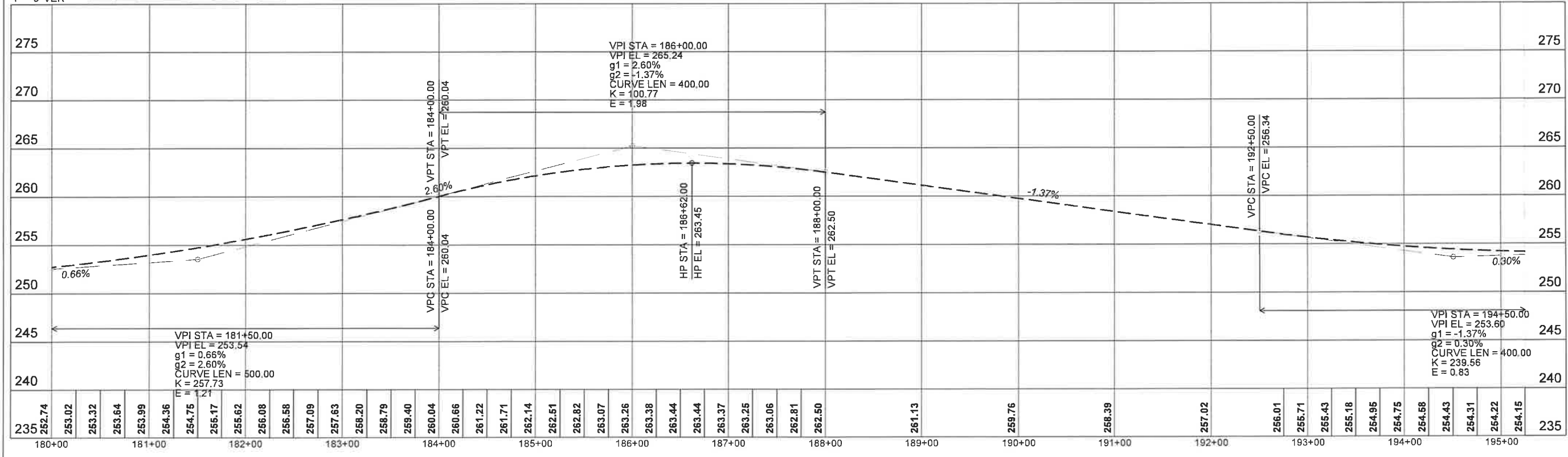


SCALES
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 1" = 5' VER

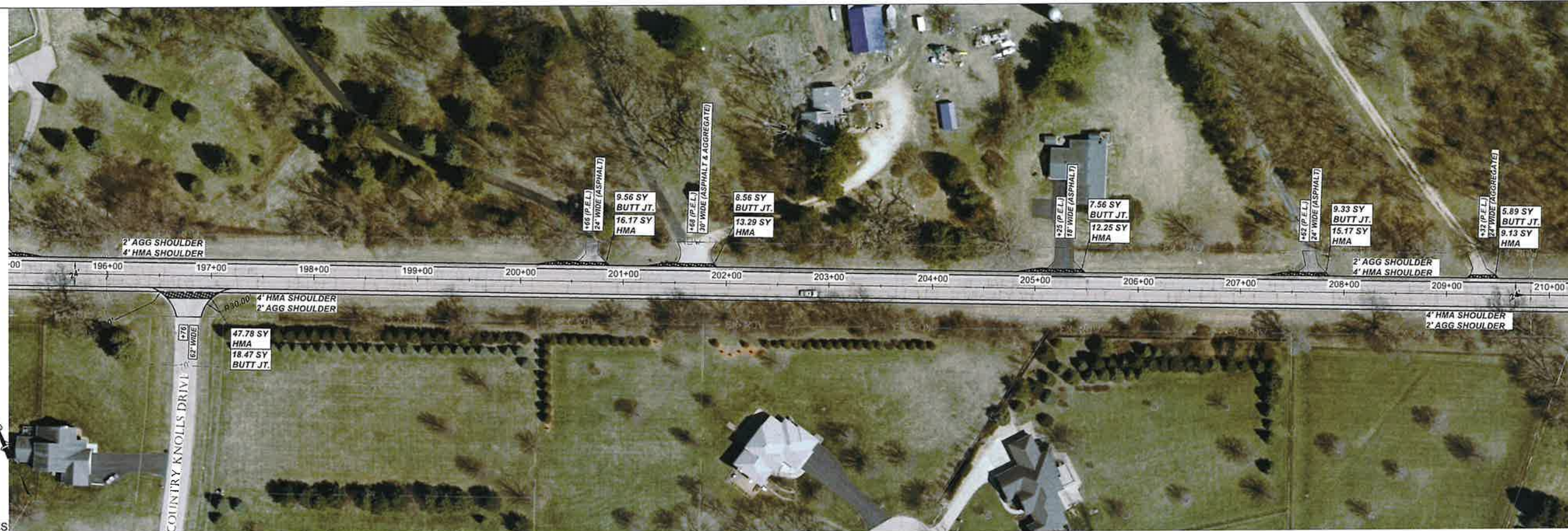




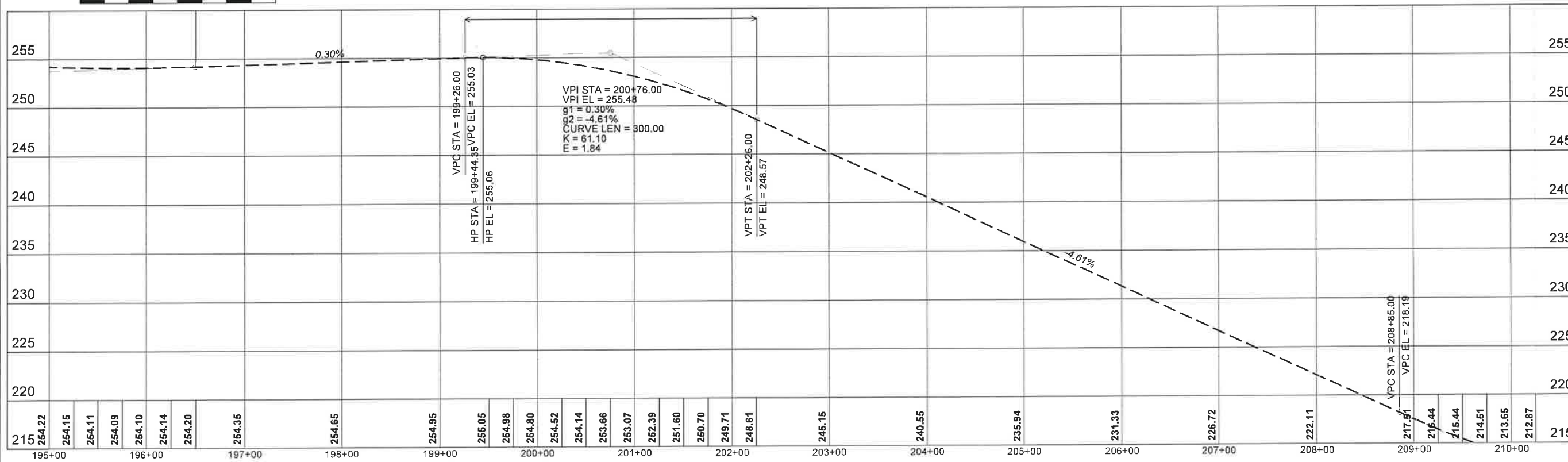
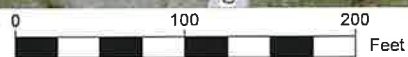
SCALES:
 1" = 50' HOR
 1" = 5' VER



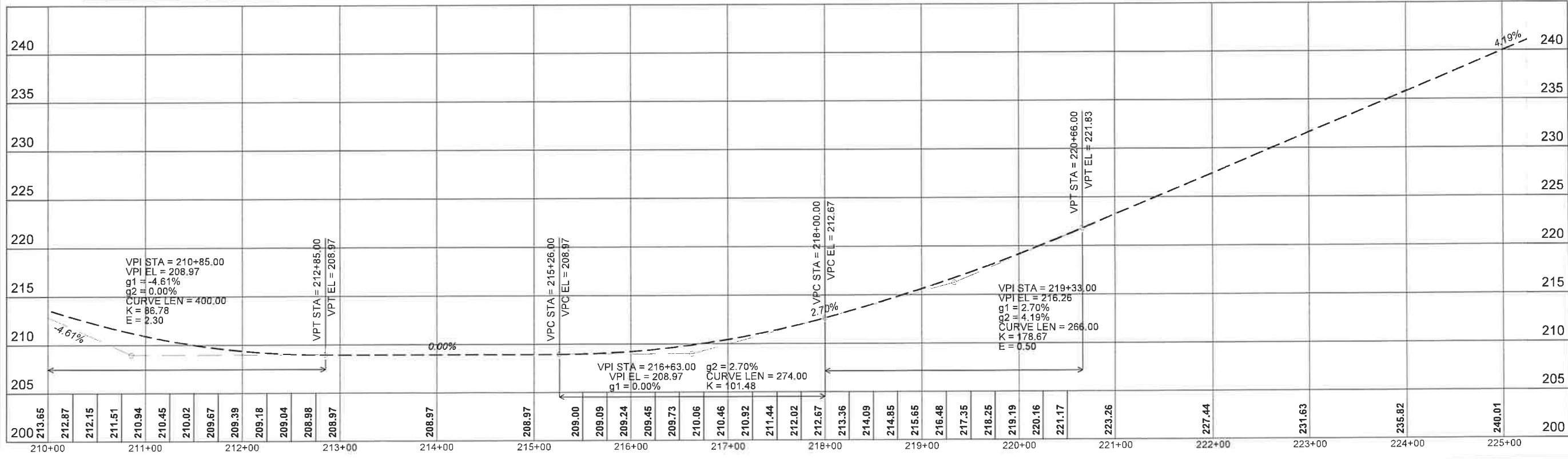
BELVIDERE ROAD
 PLAN & PROFILE



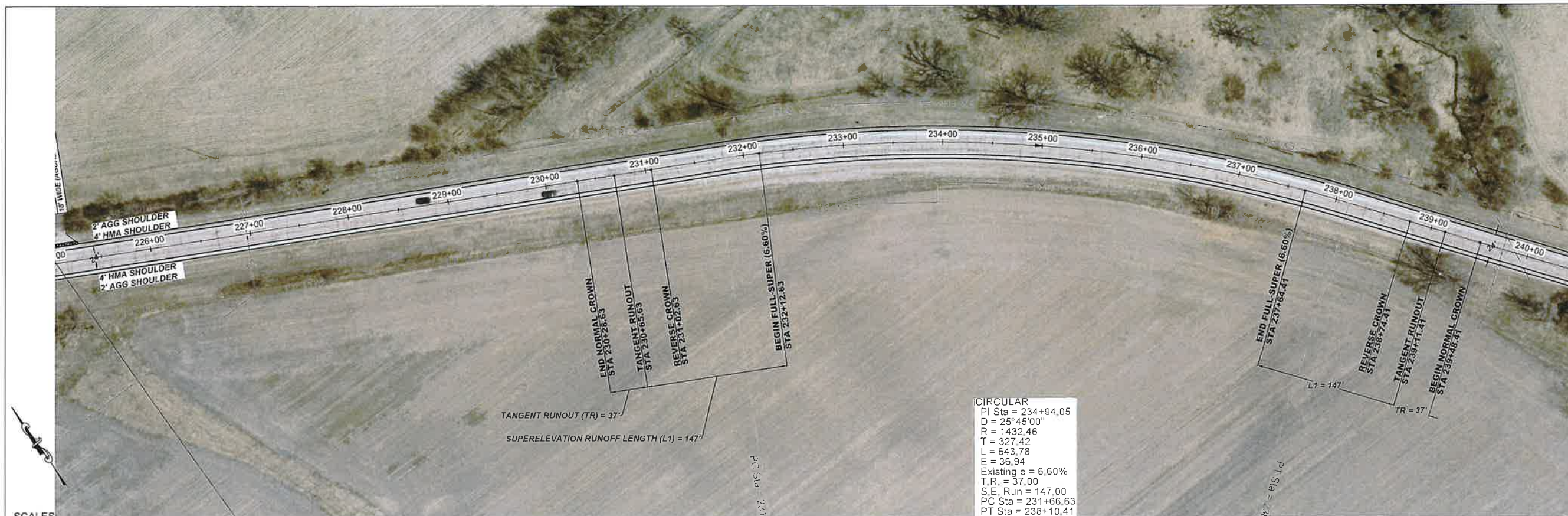
SCALES
 1" = 50' HOR
 1" = 5' VER



BELVIDERE ROAD
 PLAN & PROFILE

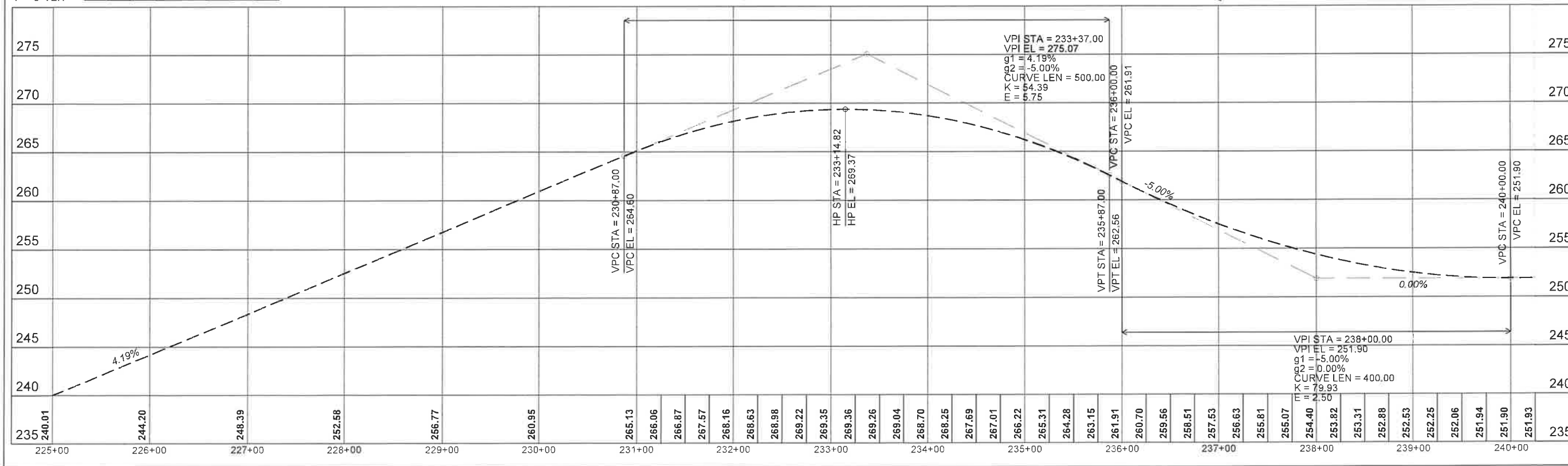


BELVIDERE ROAD
 PLAN & PROFILE

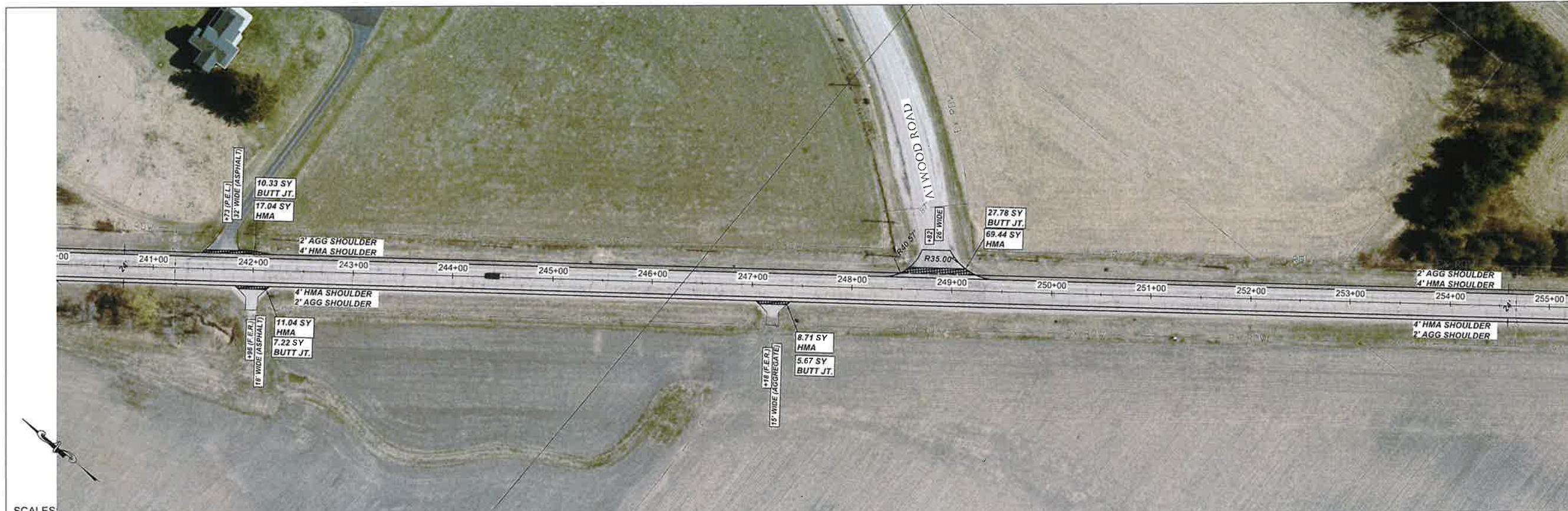


CIRCULAR
 PI Sta = 234+94.05
 D = 25°45'00"
 R = 1432.46
 T = 327.42
 L = 643.78
 E = 36.94
 Existing e = 6.60%
 T_R = 37.00
 S_R Run = 147.00
 PC Sta = 231+66.63
 PT Sta = 238+10.41

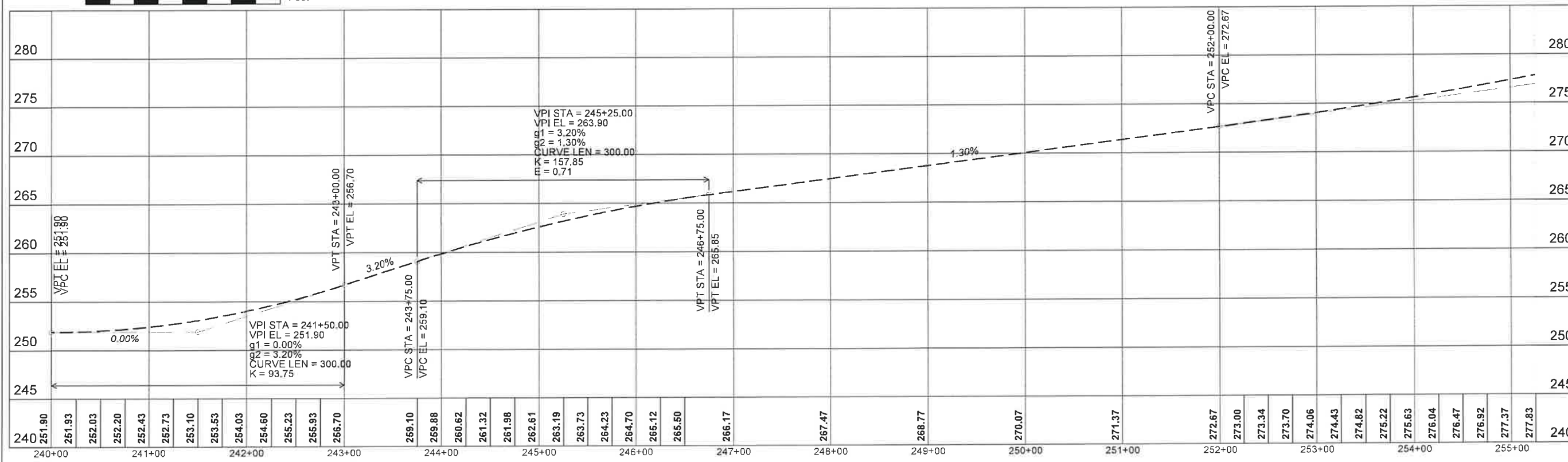
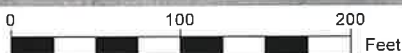
SCALES
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 1" = 5' VER
 0 100 200 Feet



BELVIDERE ROAD
 PLAN & PROFILE



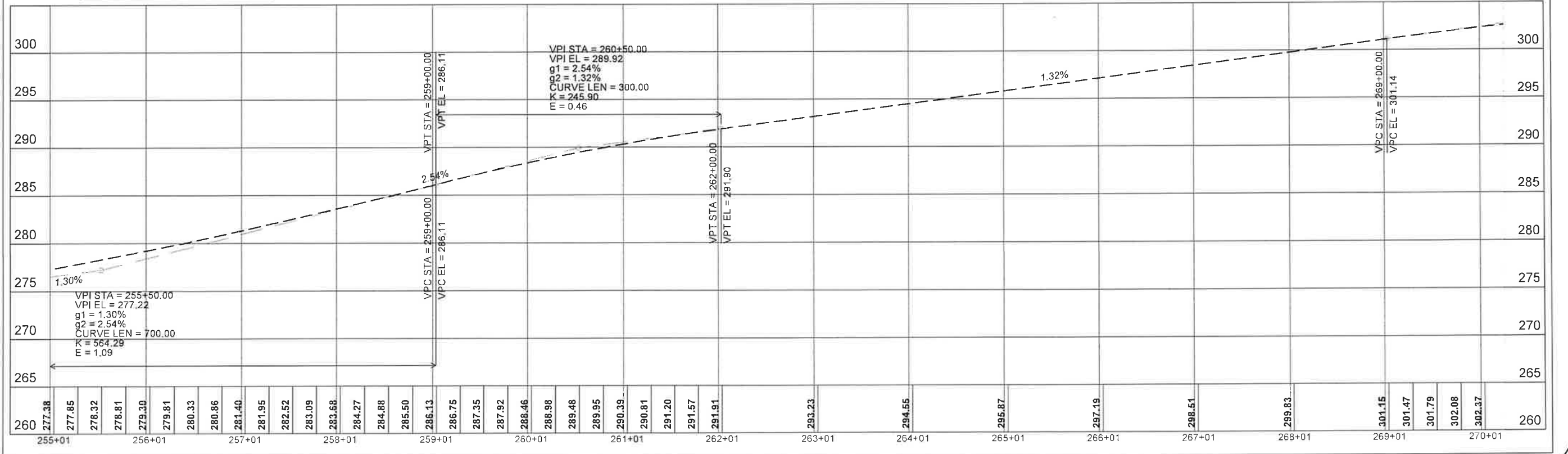
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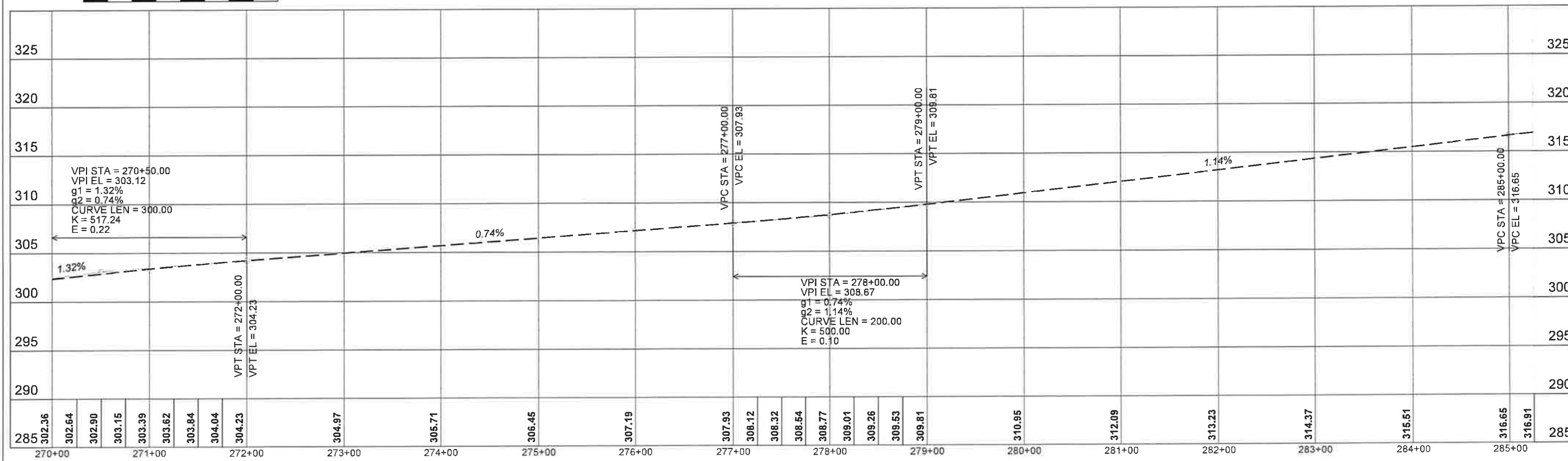
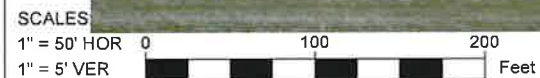


BELVIDERE ROAD
 PLAN & PROFILE



SCALES:
 1" = 50' HOR 0 100 200 Feet
 1" = 5' VER

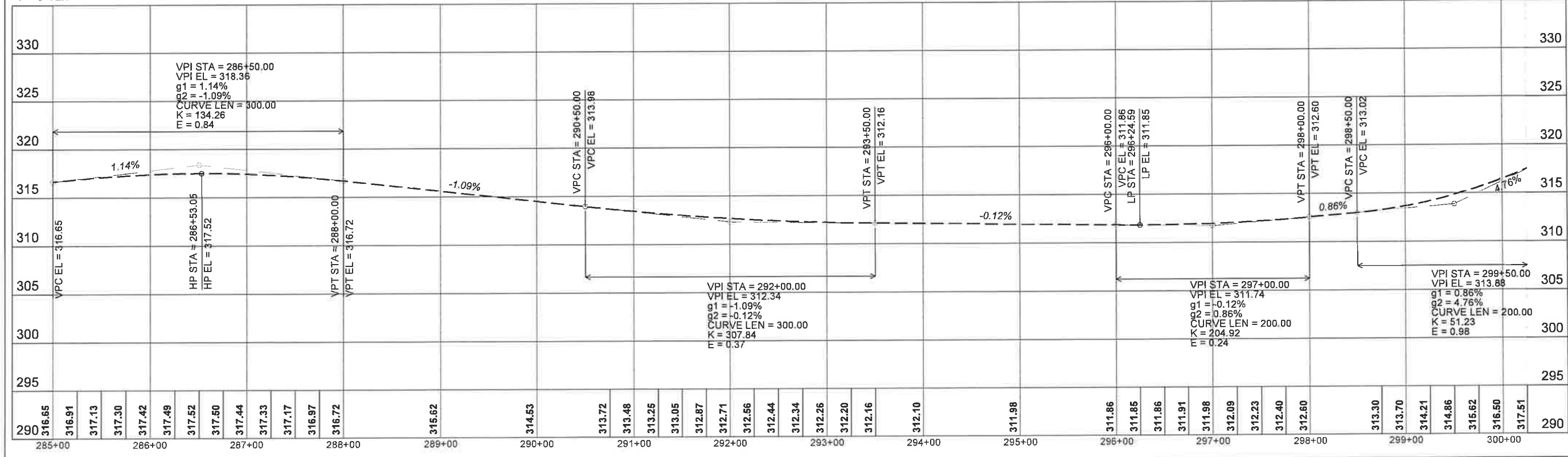
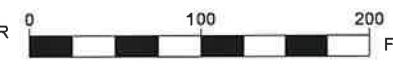




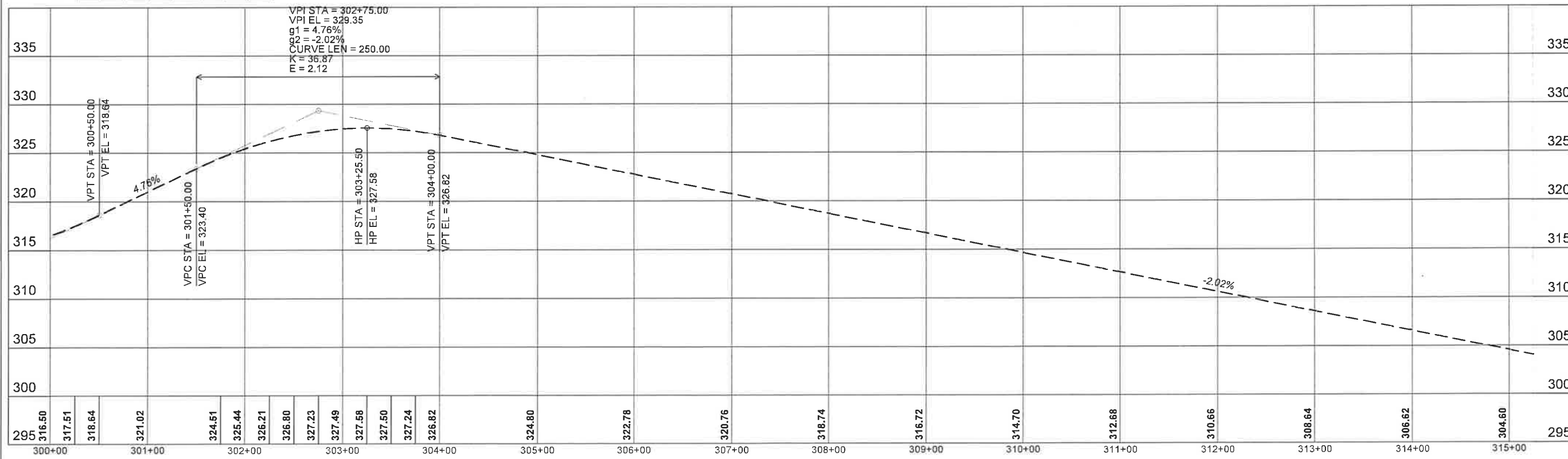
BELVIDERE ROAD
 PLAN & PROFILE



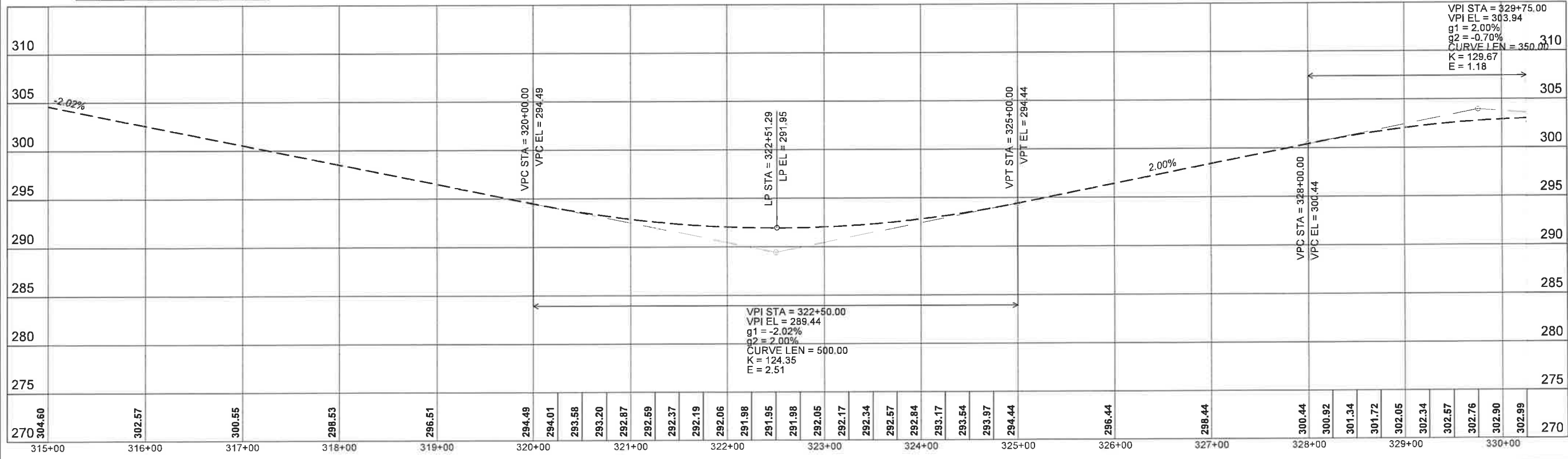
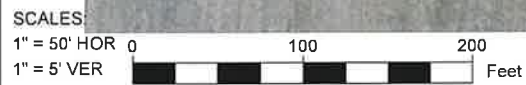
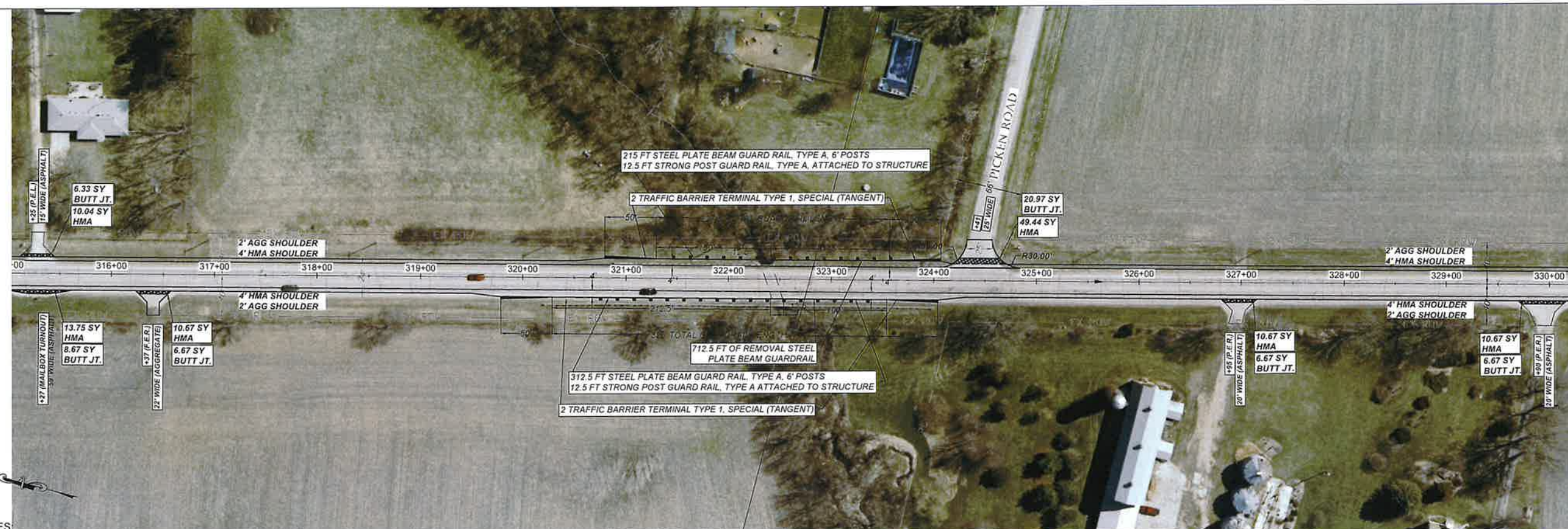
SCALES:
 1" = 50' HOR
 1" = 5' VER



BELVIDERE ROAD
 PLAN & PROFILE



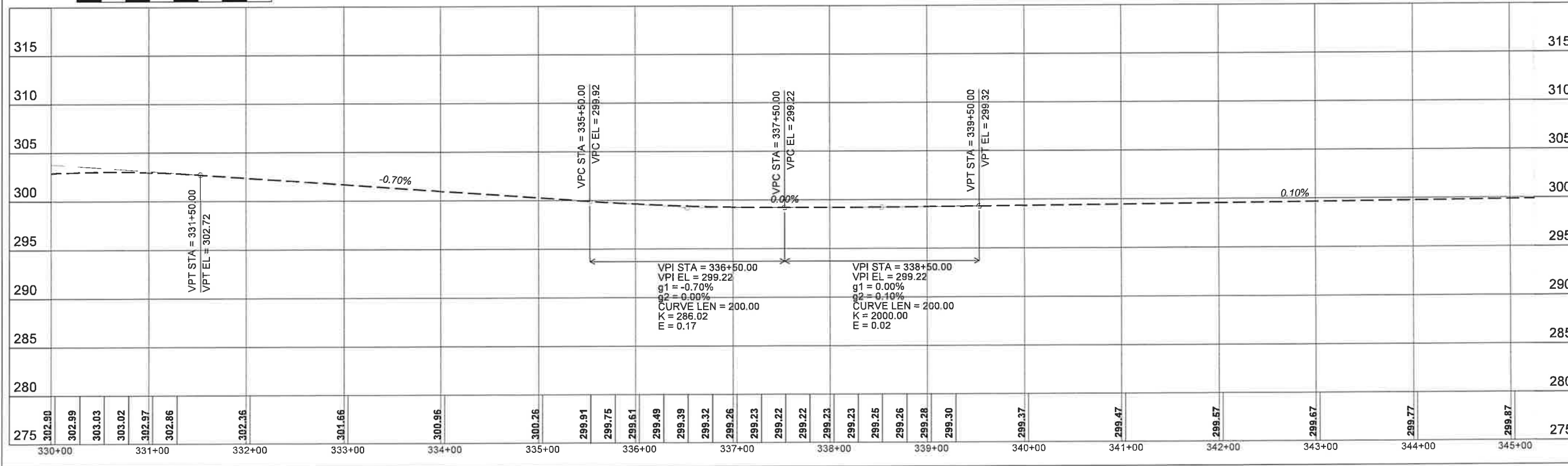
BELVIDERE ROAD
 PLAN & PROFILE



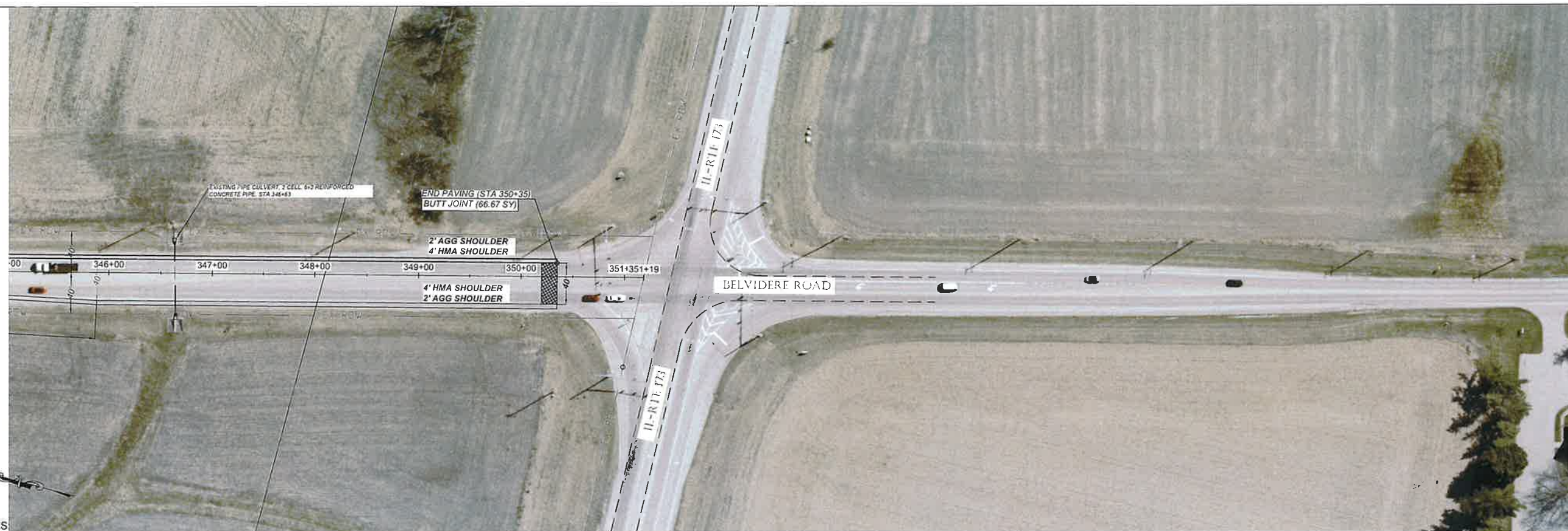
BELVIDERE ROAD
 PLAN & PROFILE



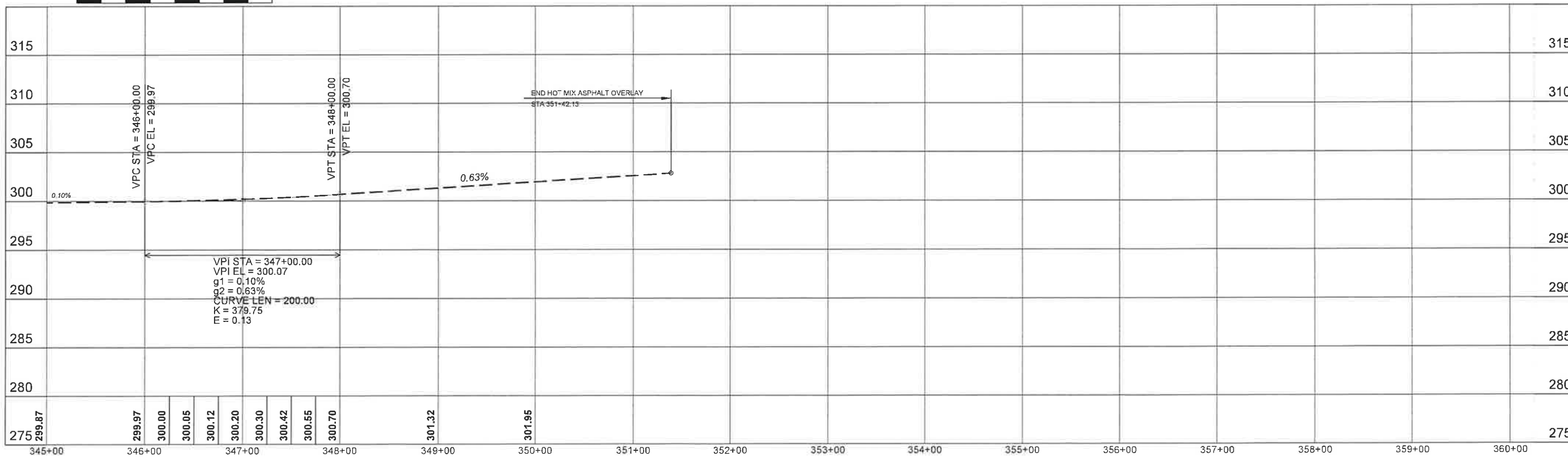
SCALES
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 1" = 5' VER



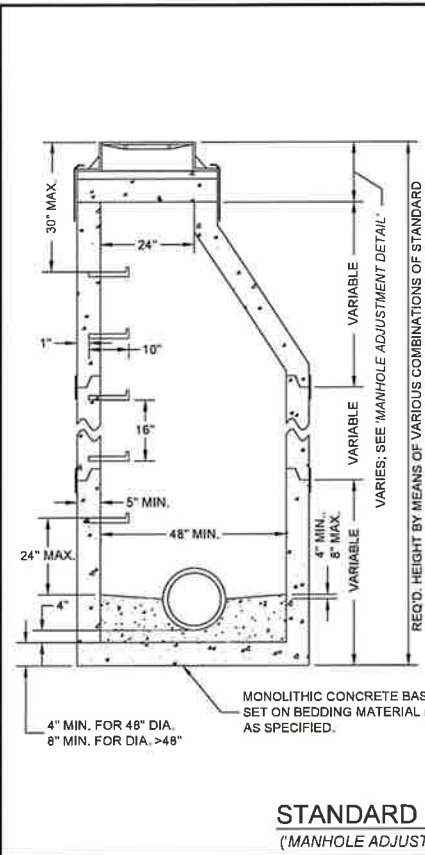
BELVIDERE ROAD
 PLAN & PROFILE



SCALES
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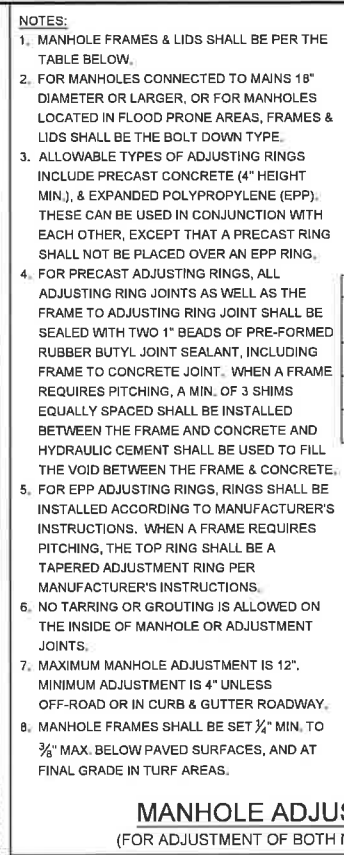


BELVIDERE ROAD
 PLAN & PROFILE



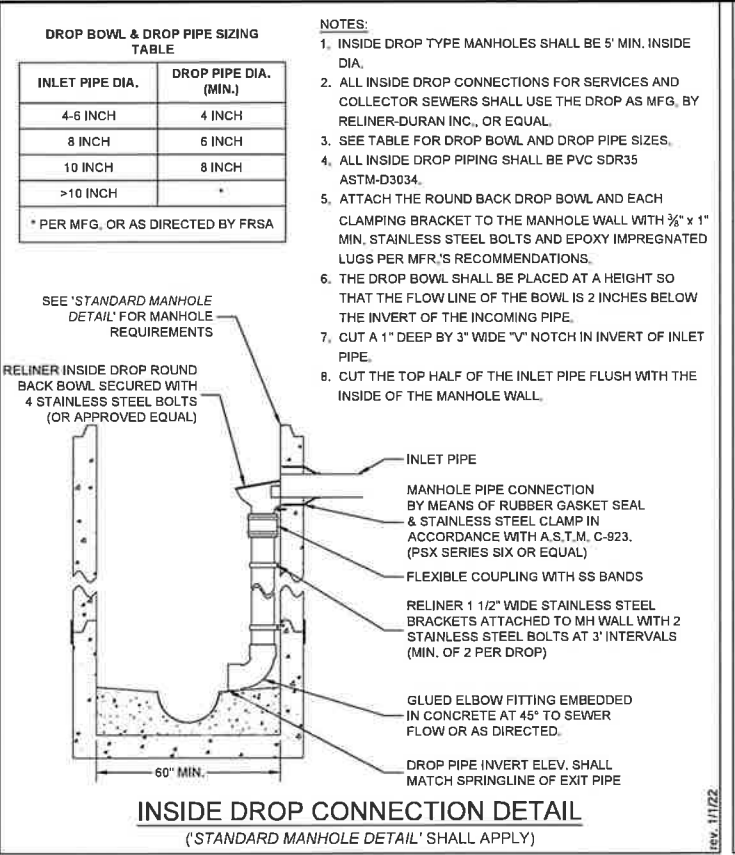
NOTES:
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" x 1/2" PRE-FORMED RUBBER BUTYL JOINT SEALANT ON THE LOWER SHIPLAP.
5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP, OR APPROVED EQUAL).
6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
8. SEE 'MANHOLE ADJUSTMENT DETAIL' FOR ADJUSTMENT REQUIREMENTS.
9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER 'INSIDE DROP CONNECTION DETAIL'.
12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, AND SHALL BE ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED.

STANDARD MANHOLE DETAIL (MANHOLE ADJUSTMENT DETAIL SHALL APPLY)

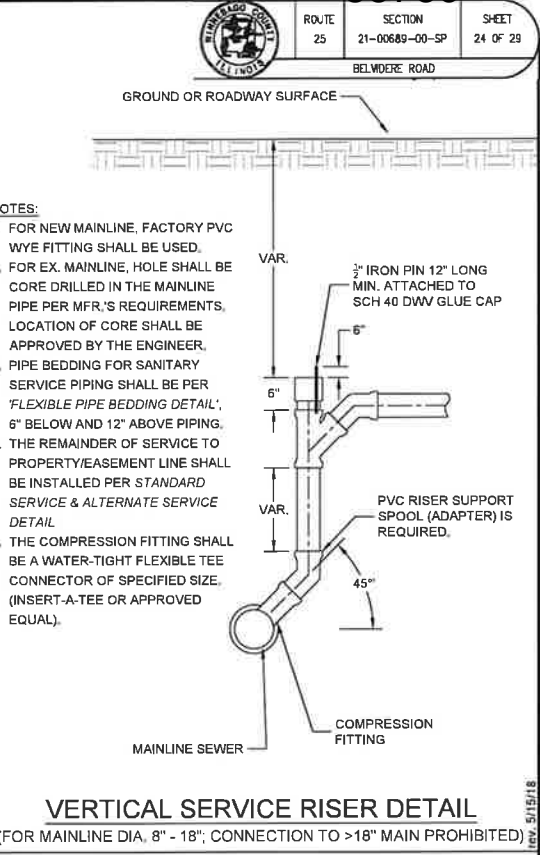


NOTES:
1. MANHOLE FRAMES & LIDS SHALL BE PER THE TABLE BELOW.
2. FOR MANHOLES CONNECTED TO MAINS 18" DIAMETER OR LARGER, OR FOR MANHOLES LOCATED IN FLOOD PRONE AREAS, FRAMES & LIDS SHALL BE THE BOLT DOWN TYPE.
3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE (4" HEIGHT MIN.), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN EPP RING.
4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO CONCRETE JOINT, WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
5. FOR EPP ADJUSTING RINGS, RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE A TAPERED ADJUSTMENT RING PER MANUFACTURER'S INSTRUCTIONS.
6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
7. MAXIMUM MANHOLE ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
8. MANHOLE FRAMES SHALL BE SET 1/2" MIN. TO 3/4" MAX. BELOW PAVED SURFACES, AND AT FINAL GRADE IN TURF AREAS.

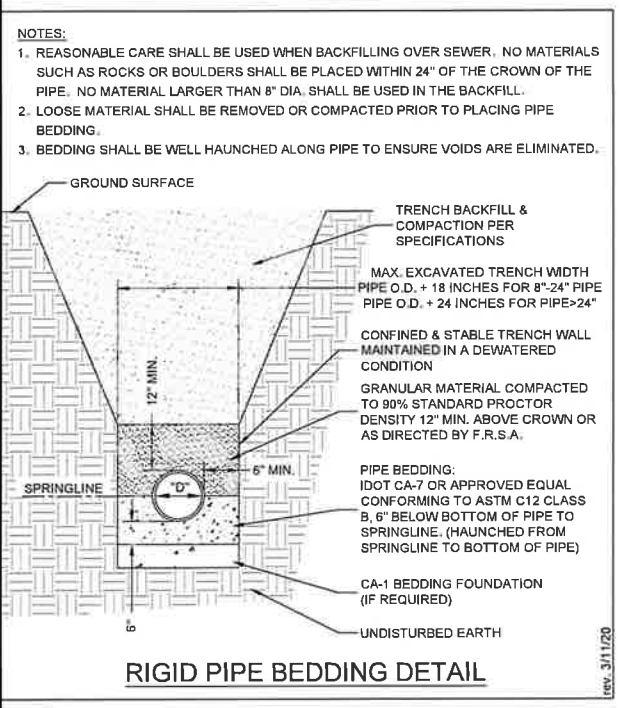
MANHOLE ADJUSTMENT DETAIL (FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)



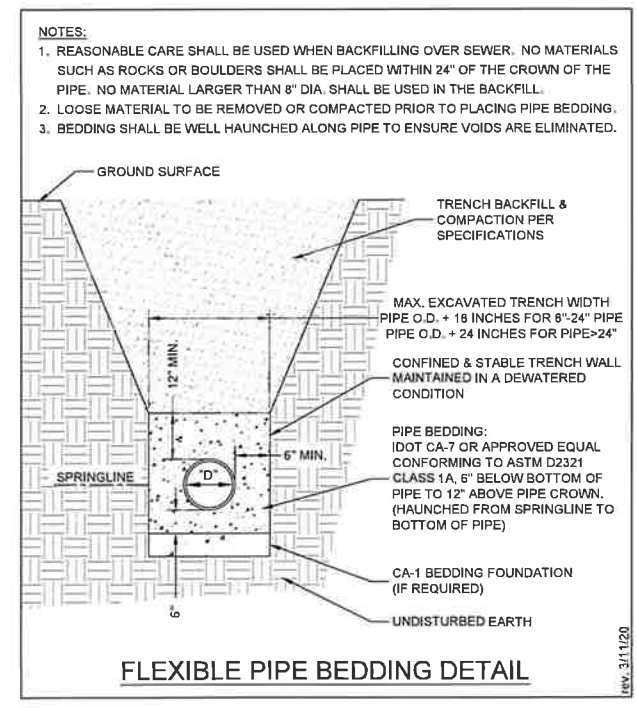
INSIDE DROP CONNECTION DETAIL (STANDARD MANHOLE DETAIL SHALL APPLY)



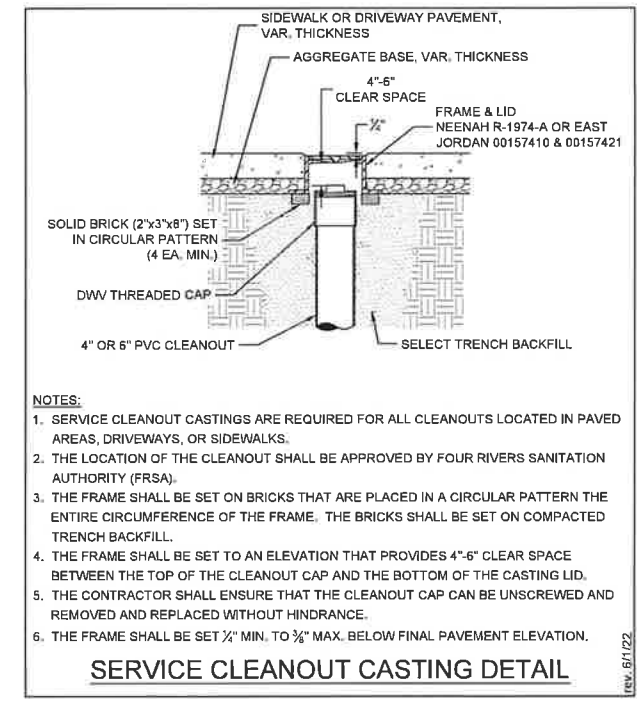
VERTICAL SERVICE RISER DETAIL (FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)



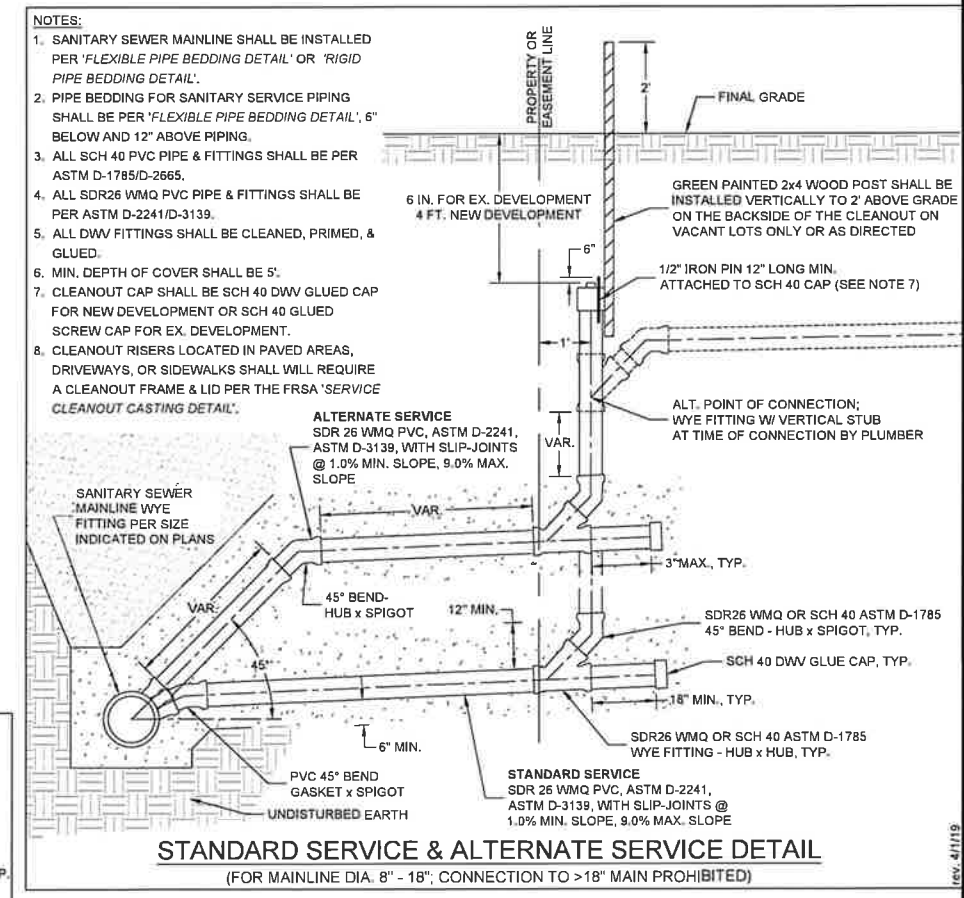
RIGID PIPE BEDDING DETAIL



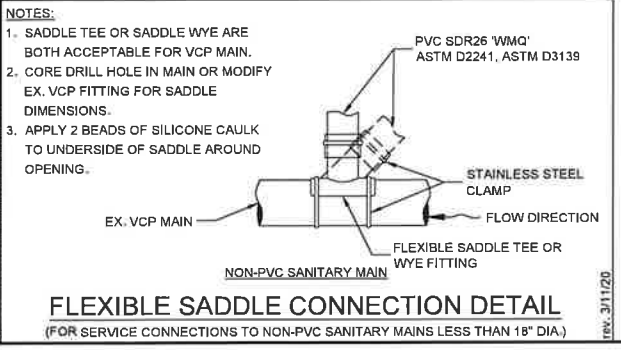
FLEXIBLE PIPE BEDDING DETAIL



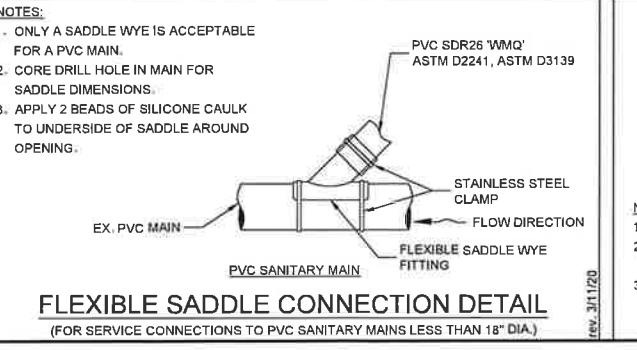
SERVICE CLEANOUT CASTING DETAIL



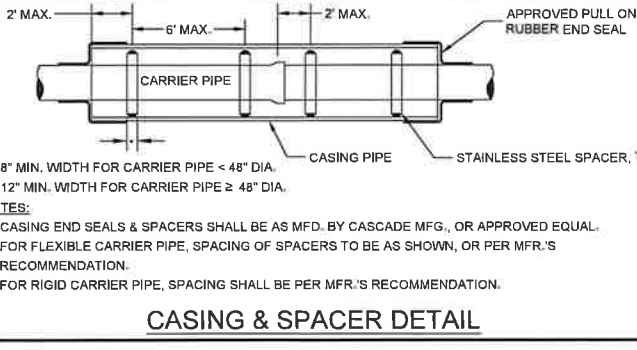
STANDARD SERVICE & ALTERNATE SERVICE DETAIL (FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)



FLEXIBLE SADDLE CONNECTION DETAIL (FOR SERVICE CONNECTIONS TO NON-PVC SANITARY MAINS LESS THAN 18" DIA.)



FLEXIBLE SADDLE CONNECTION DETAIL (FOR SERVICE CONNECTIONS TO PVC SANITARY MAINS LESS THAN 18" DIA.)



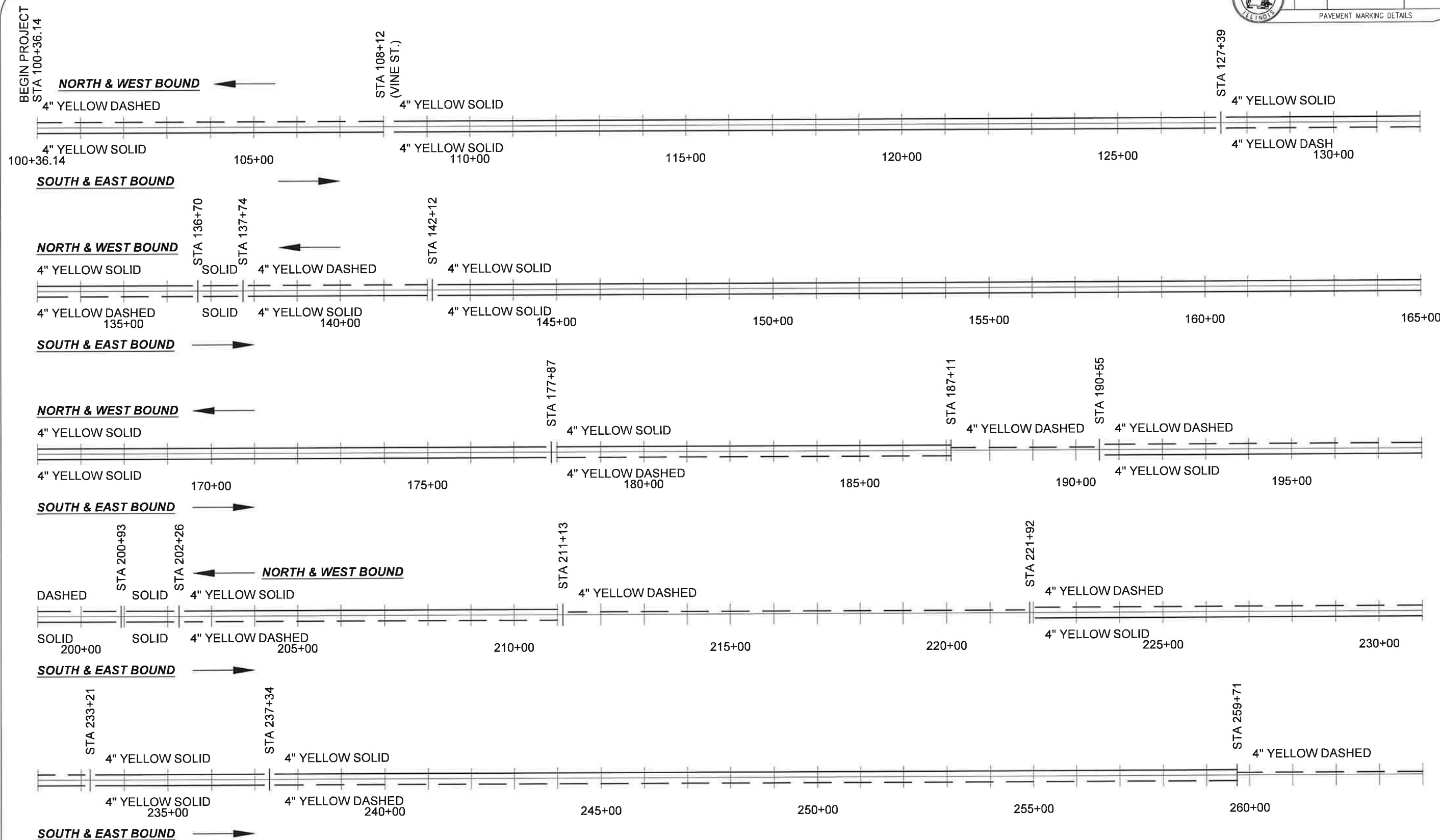
CASING & SPACER DETAIL

FOUR RIVERS SANITATION AUTHORITY (FRSA) STANDARD DETAIL SHEET (NOT TO SCALE) 3501 KISHWAUKEE ST. ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

01/01/2021: Revisions: 1. Revised notes 1, 2 with acceptable frames & lids. Modified notes 3, 5, 6, 7. Added note 8. Revised 'Rock River Redirection District to Four Rivers Sanitation Authority'. Issue Date: 01/01/2021. Revised note 6 & 7. Added note 8. Revised 'Standard Cleanout Casting Detail'. Added this sheet.

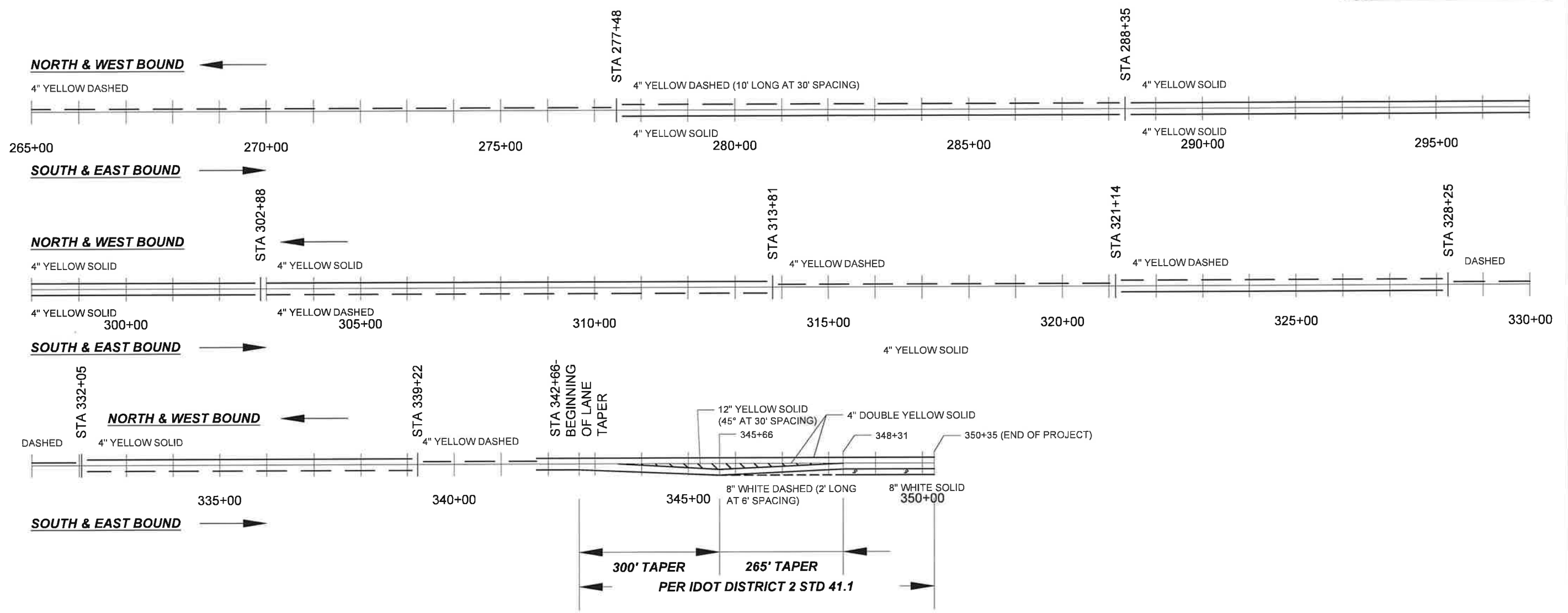


ROUTE	SECTION	SHEET
25	04-00388-00-RS	25 OF 29
PAVEMENT MARKING DETAILS		



NOTE: STATIONING TO BE FIELD VERIFIED BY THE ENGINEER PRIOR TO PLACING THE STRIPING AND SHALL BE IN ACCORDANCE WITH THE MUTCD.

NOTE: 4" WHITE EDGE STRIPING TO BE INCLUDED.
NOTE: 24" WHITE STOP BARS TO BE PLACED AT ALL INTERSECTING ROADS.

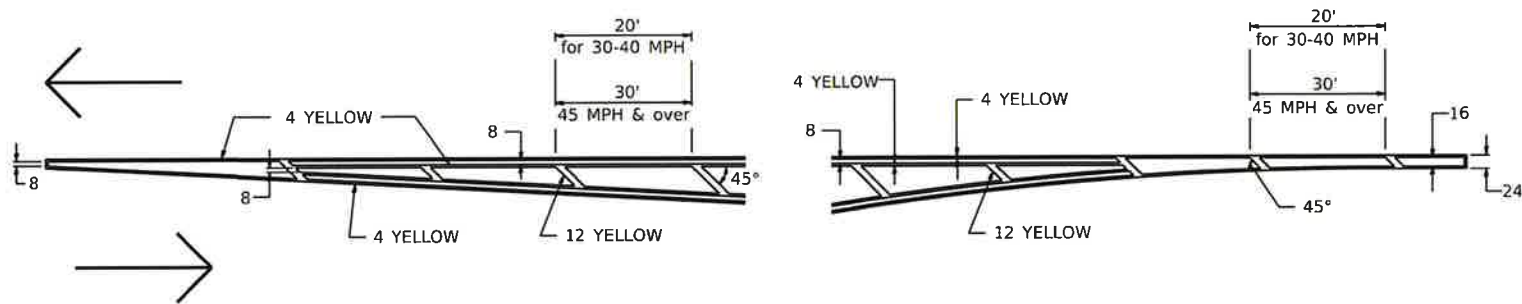


NOTE: 4" WHITE EDGE STRIPING TO BE INCLUDED.
 NOTE: STATIONING TO BE FIELD VERIFIED BY THE ENGINEER PRIOR TO PLACING THE STRIPING AND SHALL BE IN ACCORDANCE WITH THE MUTCD AND THE APPLICABLE PORTIONS OF STD 780001-05 (TYPICAL PAVEMENT MARKINGS).

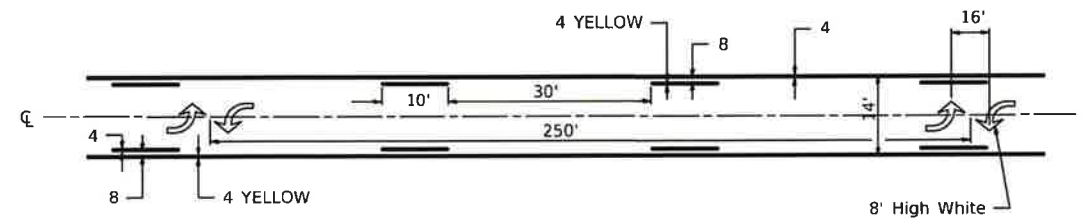


TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

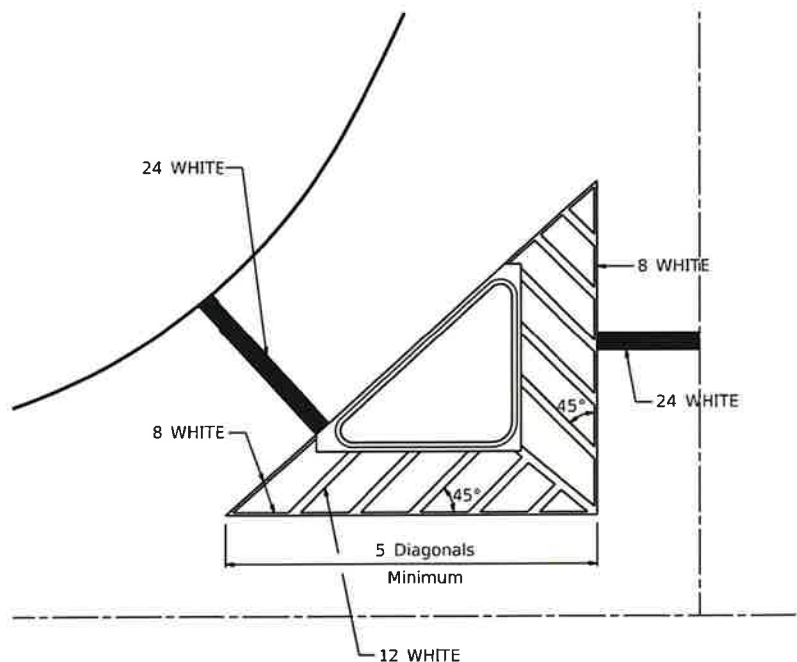


MEDIAN PAVEMENT MARKING



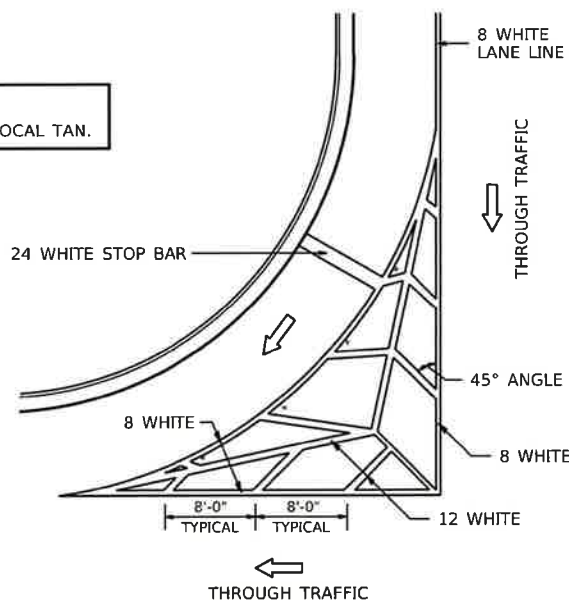
* ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



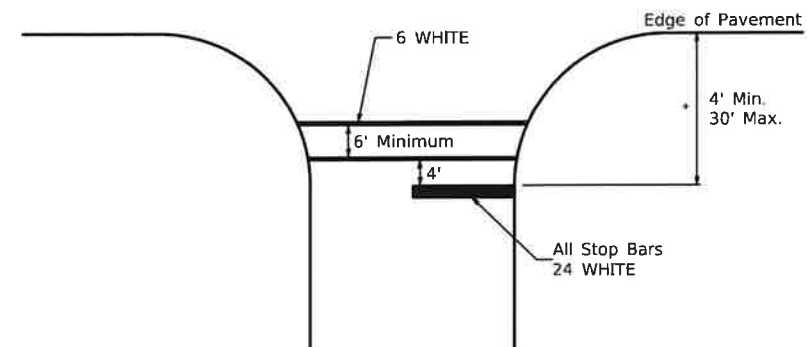
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



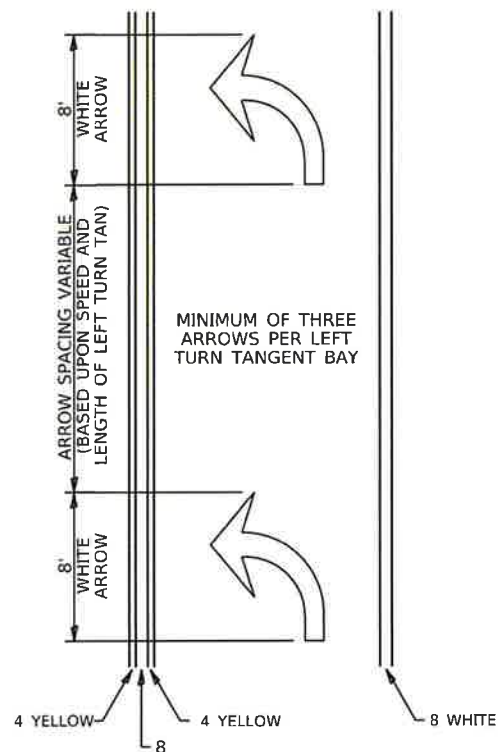
* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME: C:\Projects\ID2stand\ID2Standards.cel	USER NAME = hogensond	DESIGNED -	REvised - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 3/0909 / in	DRAWN -	REvised - 3-05-12			SCALE:	SHEET 1 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 1/11/2012	CHECKED -	REvised -			CONTRACT NO.						
		DATE -	REvised -			TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3 41.1						



TYPICAL PAVEMENT MARKINGS

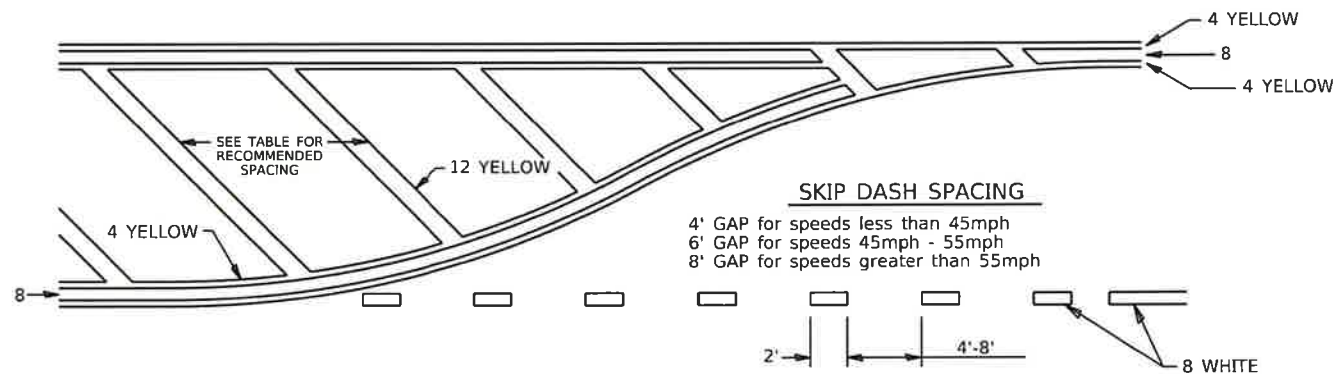
ARROW LAYOUT



- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◇ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

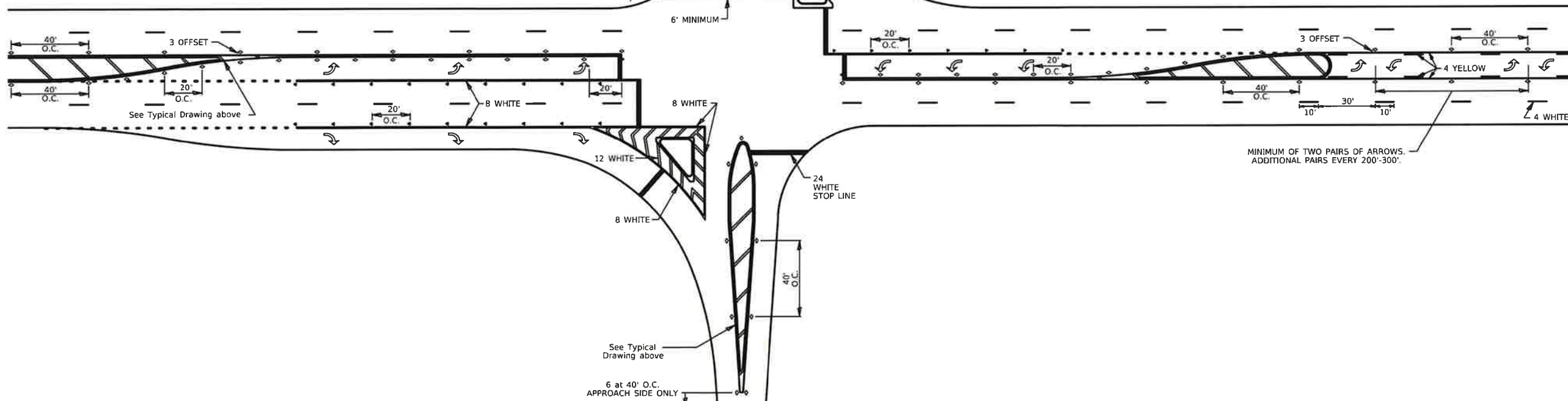
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME: C:\Projects\ID2stds\ID25standards.cel	USER NAME = fopert@id2	DESIGNED -	REVISED - 6-27-14
		DRAWN -	REVISED - 3-05-12
	PLOT SCALE = 3.0909 / in	CHECKED -	REVISED -
	PLOT DATE = 1/11/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

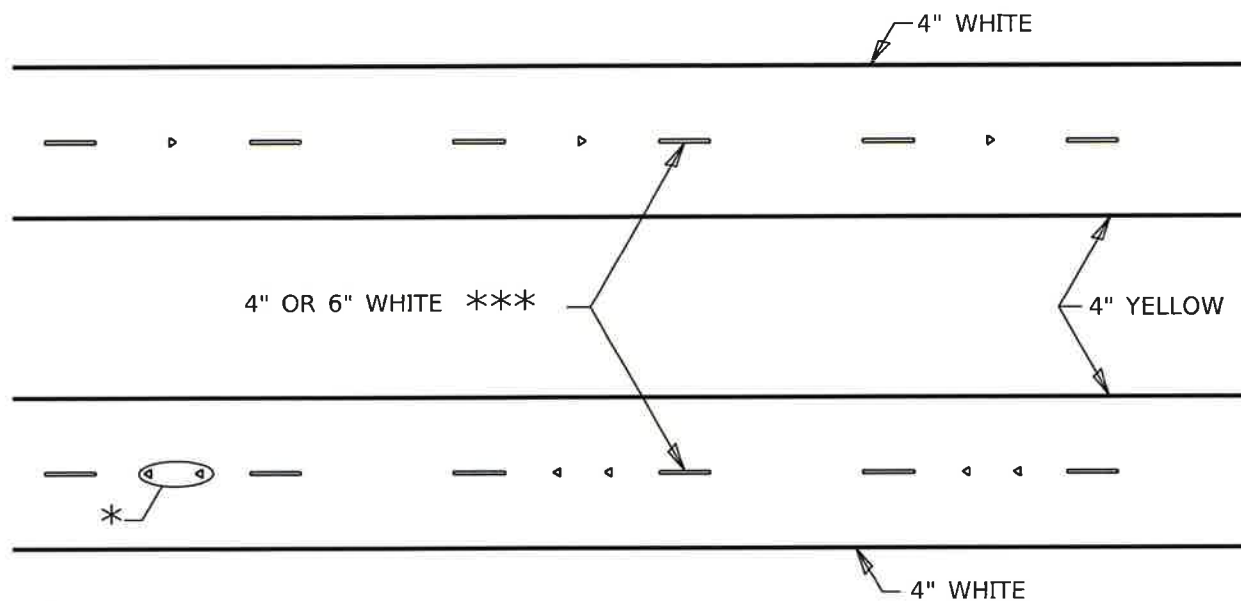
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

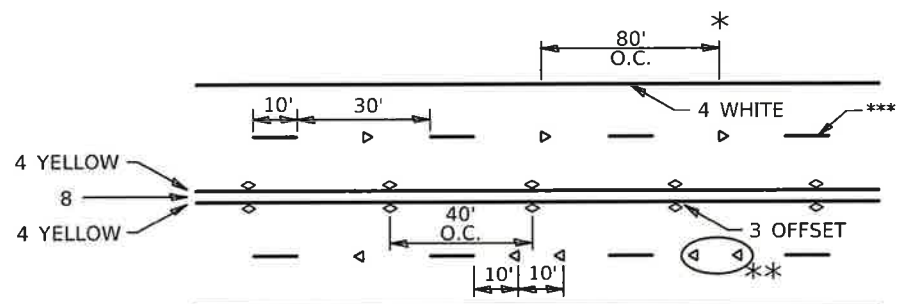


TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

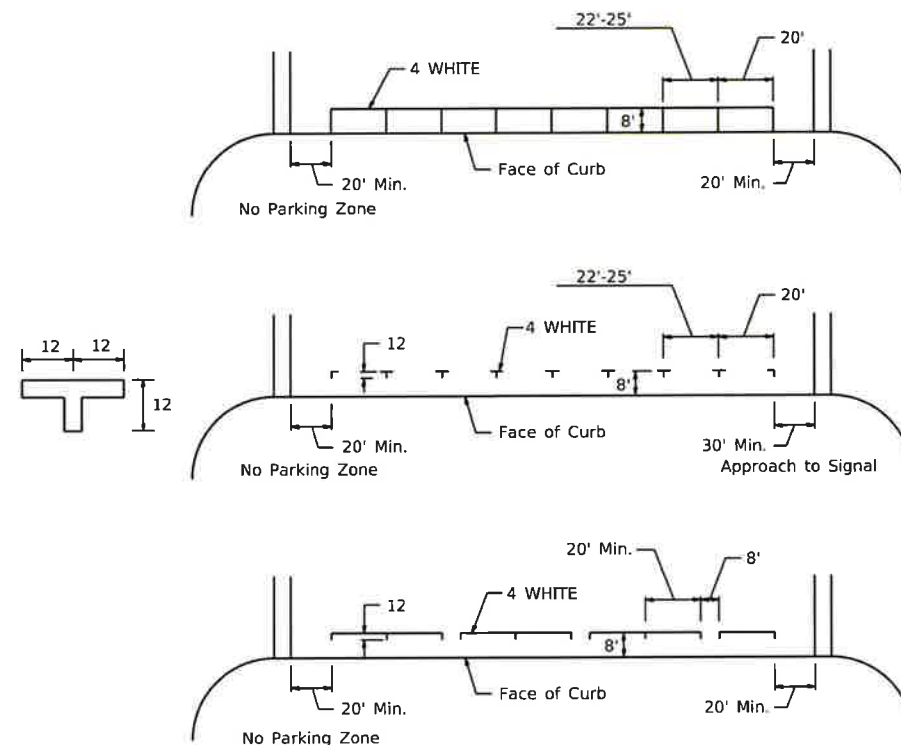
*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

MULTI-LANE / UNDIVIDED & ONE WAY

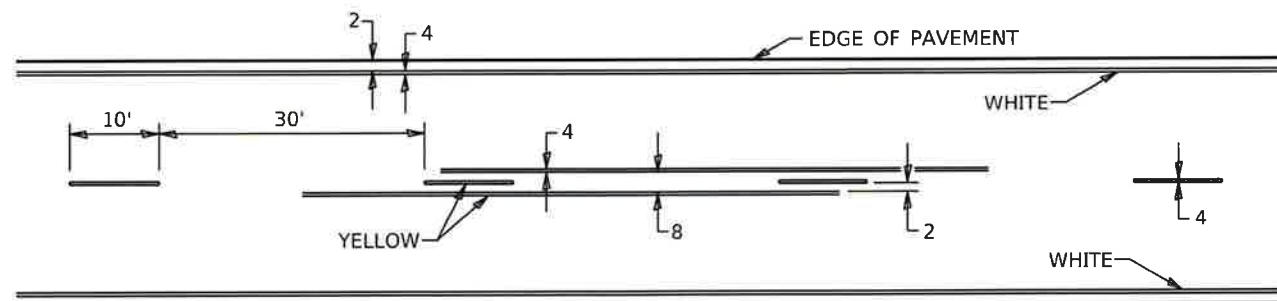
(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

SYMBOLS

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



FILE NAME: C:\Projects\02std\02standards.cel	USER NAME = hogensonjd	DESIGNED -	REVISED - 6-27-14
	PLOT SCALE = 3/0909 / in.	DRAWN -	REVISED - 8-27-13
	PLOT DATE = 3/11/2022	CHECKED -	REVISED - 11-28-12
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3 41.1