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STANDARDS

000001-08	630301-09	701311-03
001001-02	631011-10	701336-07
001006	631031-18	701501-06
442101-09	701006-05	701901-10
482006-03	701011-04	780001-05
606001-08	701201-05	781001-04
606101-05	701206-05	782006-01
606106-05	701301-04	886001-01
630001-13	701306-04	886006-01

UTILITIES

AMEREN IP (GAS & ELECTRIC)
1050 WEST BLVD.
BELLEVILLE, IL 62222
(800) 892-7715

AT&T (TELEPHONE)
203 GOETHE ST.
COLLINSVILLE, IL 62234
(618) 346-6400

CHARTER/SPECTRUM (COMMUNICATIONS)
317 WEST MAIN STREET
BELLEVILLE, IL 62220
(618) 277-2288

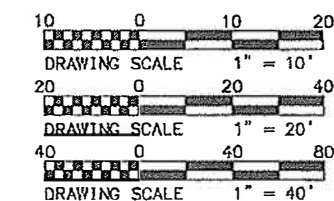
ILLINOIS AMERICAN WATER (WATER)
100 NORTH WATERWORKS DRIVE
BELLEVILLE, IL 62223
(618) 277-7450

ROADWAY DESIGNATION: MAJOR COLLECTOR
DESIGN TRAFFIC (2022) = 9,365 ADT
DESIGN YEAR (2032) = 10,345 ADT
POSTED SPEED: 45 MPH (RURAL)
DESIGN POLICY: LAFO

CALL JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
(J.U.L.I.E.) BEFORE DIGGING: (800) 892-0123 or 811

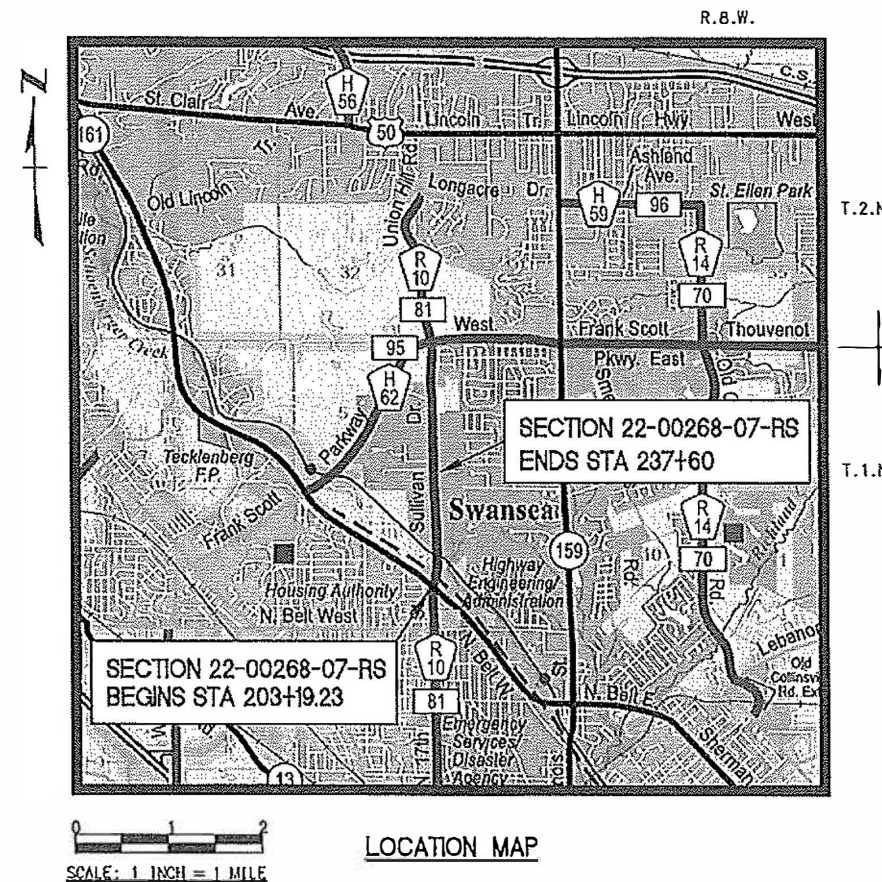
ST. CLAIR TOWNSHIP W¹/₂, SECTION 4, T.1N., R.8W.
ST. CLAIR TOWNSHIP E¹/₂, SECTION 5, T.1N., R.8W.
ST. CLAIR TOWNSHIP E¹/₂, SECTION 8, T.1N., R.8W.
ST. CLAIR TOWNSHIP W¹/₂, SECTION 9, T.1N., R.8W.

FULL SIZE PLANS HAVE BEEN PREPARED
USING STANDARD ENGINEERING SCALES.
REDUCED SIZED PLANS WILL NOT CONFORM
TO STANDARD SCALES, IN MAKING
MEASUREMENTS ON REDUCED PLANS,
THE SCALES BELOW MAY BE USED.



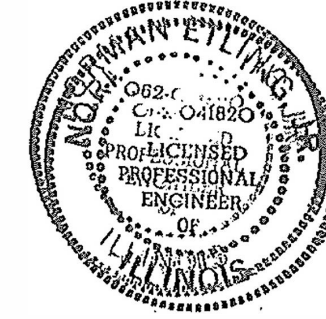
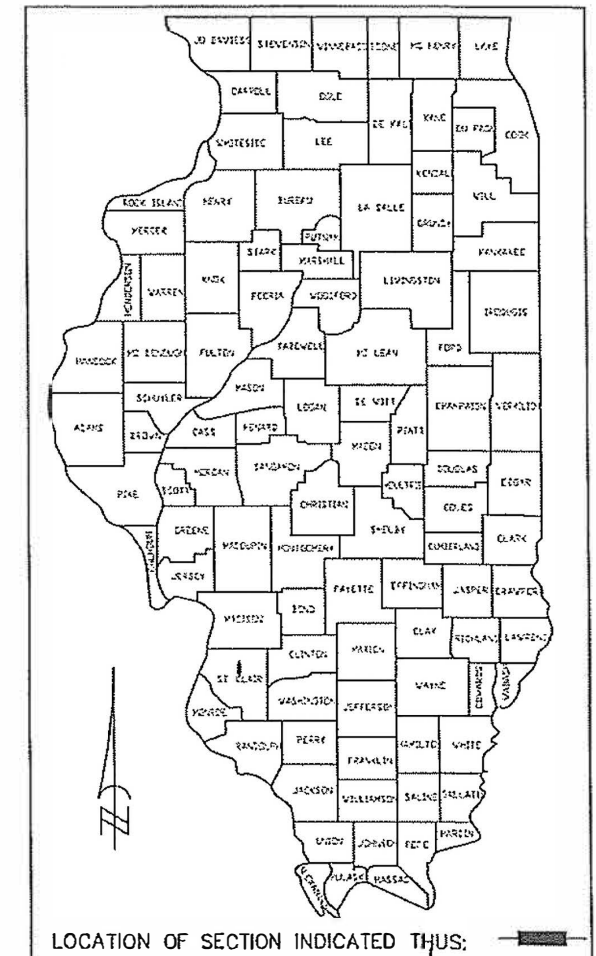
CONTRACT No. 97842

STATE of ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM SECTION 22-00268-07-RS FAU 9167 - COUNTY HIGHWAY 81 SULLIVAN DRIVE RESURFACING - PHASE 3 PROJECT NO.: BYIR(383) JOB NO.: C-98-013-26 ST. CLAIR COUNTY



GROSS LENGTH OF PROJECT = 3,440.77 FEET (0.652 MILES)
NET LENGTH OF PROJECT = 3,440.77 FEET (0.652 MILES)

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	1
CONTRACT NO. 97842				



9/12/24
These plans were prepared by me or by a full-time member of my staff working under my personal supervision.
Norm E. Elling
Norm E. Elling, P.E.
County Engineer
License Number 62-041820
License Expiration Date: November 30, 2025

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY OF ST. CLAIR DEPARTMENT OF ROADS AND BRIDGES	
APPROVED <i>Norm E. Elling</i> NORMAN ELLING, P.E. COUNTY ENGINEER	2024
PASSED <i>Norm E. Elling</i> DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS	12/17, 2024
RELEASING FOR BID BASED ON LIMITED REVIEW <i>Norm E. Elling</i> REGION 5 ENGINEER	12/17, 2024

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OF THE STATE OF ILLINOIS

GENERAL NOTES

1. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	HMA SURFACE	HMA SHOULDER	HMA BINDER CRSE	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPEC.	SEE SPEC.	SEE SPEC.	SEE SPEC.
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5	IL 9.5	IL 9.5
FRICTION AGG	MIXTURE "D"		MIXTURE "C"	MIXTURE "C"
MATERIAL TRANSFER DEVICE (REQUIRED?)	YES	NO	YES	NO

2. A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING HAS BEEN INCLUDED IN THE PLANS.
3. THE LOCATION OF UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAS BEEN DETERMINED FROM SURFACE OBSERVATIONS, AVAILABLE SURVEYS AND RECORDS, AND MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY SHOWN OR KNOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION. CONTACT J.U.L.I.E. BEFORE DIGGING AT 1-800-892-0123.
4. AN APPROXIMATED QUANTITY OF 2 TONS FOR PAY ITEM "MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS" IS INCLUDED IN THE "SUMMARY OF QUANTITIES" IN ORDER TO ESTABLISH A UNIT COST FOR WORK WHICH MAY BE REQUIRED TO CONSTRUCT THIS SECTION. THE ACTUAL QUANTITY OF THE ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
5. AN APPROXIMATED QUANTITY OF 2 TONS FOR PAY ITEM "HOT-MIX ASPHALT BINDER COURSE (HAND METHOD), N70" IS INCLUDED IN THE "SUMMARY OF QUANTITIES" IN ORDER TO ESTABLISH A UNIT COST FOR REPAIR OF THE PAVEMENT JOINTS AND SPALLS. THE ACTUAL QUANTITY OF THE ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6. LONGITUDINAL PARTIAL DEPTH PATCHING HAS BEEN INCLUDED FOR REPAIR OF THE CENTERLINE JOINT AS WELL AS AS ANY LANE SEPARATION JOINTS INCLUDED BY THE ENGINEER. IT IS ANTICIPATED THAT LONGITUDINAL PATCHING WILL BE COMPLETED BEFORE TRANSVERSE FULL DEPTH PATCHING.
7. LONGITUDINAL JOINT SEAL SHALL BE APPLIED IMMEDIATELY UNDER THE FINAL LIFT OF HMA SURFACE.
8. EXISTING OIL AND CHIP SHOULDERS SHALL BE SCARIFIED AND RE-ROLLED AS DESCRIBED IN THE SPECIAL PROVISIONS.
9. EXISTING RAISED P.C.C. MEDIAN AND ADJOINING CURB AND GUTTER LOCATED STA. 203+54 TO 211+09 TO BE BROOMED / CLEANED OF DEBRIS / VEGETATION TO THE SATISFACTION OF ENGINEER. APPLY CRACK SEALANT TO EXISTING OPEN CONSTRUCTION JOINTS. THIS WORK SHALL BE PAID FOR PER ARTICLE 109.04 (PAYMENT FOR EXTRA WORK) OF THE STANDARD SPECIFICATIONS.

FACTORS USED FOR QUANTITY CALCULATION

AGGREGATE AND AGGREGATE WEDGE SHOULDER: 2.1 TON/CU YD
AGGREGATE SURFACE COURSE: 2.1 TON/CU YD
BITUMINOUS MATERIALS (TACK COAT): 0.05 LB/SQ FT (WHEN USED ON EXISTING PAVEMENT)
0.025 LB/SQ FT (WHEN APPLIED ON PROPOSED HMA)
HOT-MIX ASPHALT SURFACE COURSE, MIXTURE D, N70: 112 LB/SQ YD/INCH
HOT-MIX ASPHALT BINDER COURSE, MIXTURE C, N70: 112 LB/SQ YD/INCH
INCIDENTAL HOT-MIX ASPHALT SURFACING: 2.016 TON/CU YD
HOT-MIX ASPHALT SHOULDERS: 2.016 TON/CU YD

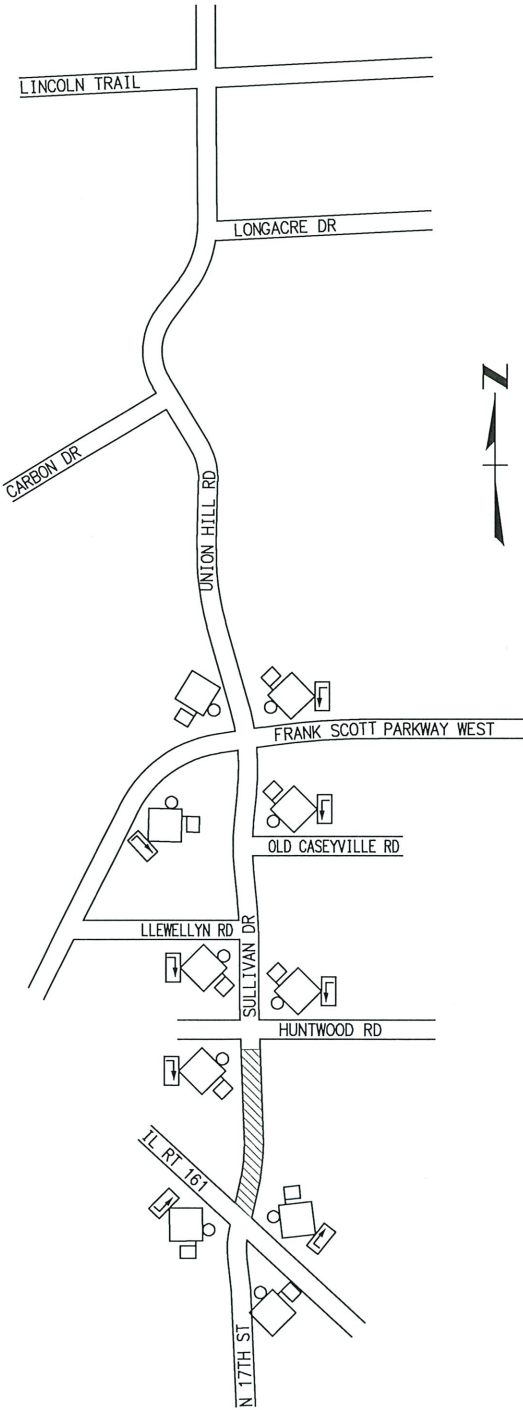
A-2 SURFACE TREATMENT:
BITUMINOUS MATERIALS (COVER & SEAL COAT): 2.9 LB/SQ YD
SEAL COAT AGGREGATE: 20 LB/SQ YD
COVER COAT AGGREGATE: 20 LB/SQ YD
BITUMINOUS MATERIALS (PRIME COAT): 2.9 LB/SQ YD

COMMITMENTS

NONE

TRAFFIC CONTROL PLAN

1. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED—EXCEPT FOR PAVEMENT PATCHING. THE ROADWAY SHALL REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION.
2. FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE APPLIED.
3. ALL WARNING SIGNS SHALL BE A MINIMUM OF 48"X48" AND HAVE A BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND.
4. TYPE A FLASHING LIGHTS SHALL BE USED ON EACH ADVANCED WARNING SIGN.



LEGEND
ROAD CONSTRUCTION AHEAD W20-1103(0)-48
WORK AREA



ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

GENERAL NOTES, COMMITMENTS, and TRAFFIC CONTROL PLAN

SHEET NO. 1 OF 1 SHEETS
STA TO STA

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	2
CONTRACT NO. 97842				

CODE NO.	ITEM	UNIT	QUANTITY
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	16
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8323
40600370	LONGITUDINAL JOINT SEALANT	FOOT	5193
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	2
40600405	MATERIAL TRANSFER DEVICE	TON	1970
40600901	HOT-MIX ASPHALT BINDER COURSE (HAND METHOD), N70	TON	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL – BUTT JOINT	SQ YD	599
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL – BUTT JOINT	SQ YD	698
40600990	TEMPORARY RAMP	SQ YD	200
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	954
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	1036
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	21
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	33
42000060	WELDED WIRE REINFORCEMENT	SQ YD	27
44200929	CLASS B PATCHES, TYPE I, 8 INCH	SQ YD	28
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	638
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	27
44201298	DOWEL BARS 1 1/4"	EACH	1662
44213200	SAW CUTS	FOOT	4301
44213204	TIE BARS 3/4"	EACH	12
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	185
48203100	HOT-MIX ASPHALT SHOULDERS	TON	491
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	188
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	530
67100100	MOBILIZATION	L SUM	1

* : DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	784
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	262
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS – PAINT	SQ FT	148
70300221	TEMPORARY PAVEMENT MARKING – LINE 4" – PAINT	FOOT	15417
70300251	TEMPORARY PAVEMENT MARKING – LINE 8" – PAINT	FOOT	228
70300261	TEMPORARY PAVEMENT MARKING – LINE 12"– PAINT	FOOT	293
70300281	TEMPORARY PAVEMENT MARKING – LINE 24"– PAINT	FOOT	47
* 72501000	TERMINAL MARKER – DIRECT APPLIED	EACH	2
* 78000100	THERMOPLASTIC PAVEMENT MARKING – LETTERS AND SYMBOLS	SQ FT	148
* 78000200	THERMOPLASTIC PAVEMENT MARKING – LINE 4"	FOOT	15417
* 78000500	THERMOPLASTIC PAVEMENT MARKING – LINE 8"	FOOT	228
* 78000600	THERMOPLASTIC PAVEMENT MARKING – LINE 12"	FOOT	293
* 78000650	THERMOPLASTIC PAVEMENT MARKING – LINE 24"	FOOT	47
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	90
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	90
78300202	PAVEMENT MARKING REMOVAL – WATER BLASTING	SQ FT	5826
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR	FOOT	89
* 88600100	DETECTOR LOOP, TYPE I	FOOT	654
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	89
X1500005	BITUMINOUS SURFACE TREATMENT, A2	SQ YD	4029
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	80
X4402400	CURB REMOVAL (SPECIAL)	FOOT	26
X4405020	LONGITUDINAL PARTIAL DEPTH REMOVAL 2"	FOOT	778

* : DENOTES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	QUANTITY
X4420900	LONGITUDINAL PARTIAL DEPTH PATCHING	TON	19.4
X4811300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	TON	734
X6061815	COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)	FOOT	26
Z0010615	CLEANING EXISTING INLETS	EACH	4
△ Z0076600	TRAINEES	HOURL	500
△ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500

* : DENOTES SPECIALTY ITEM

△ = 0042



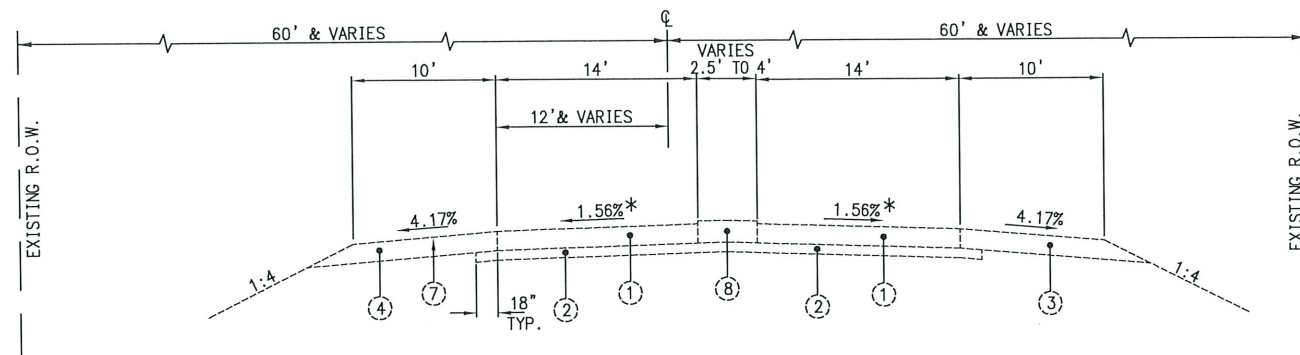
ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

SUMMARY OF QUANTITIES

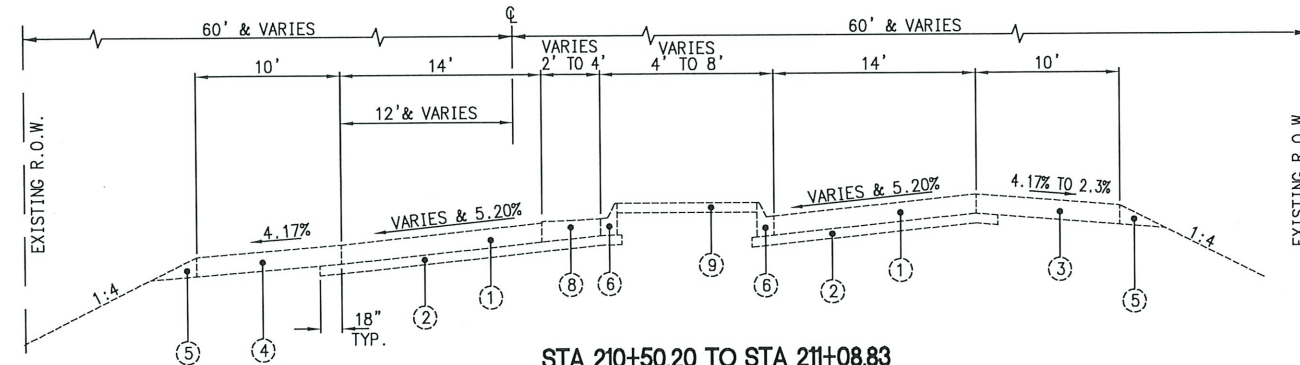
SHEET NO. 1 OF 1 SHEETS

STA TO STA

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	3
CONTRACT NO. 97842				

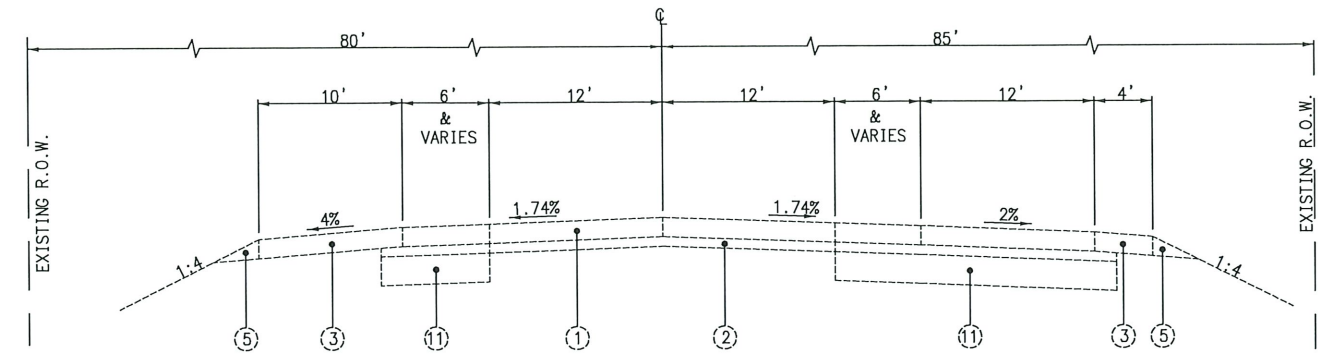


STA 211+08.83 TO STA 212+06.65

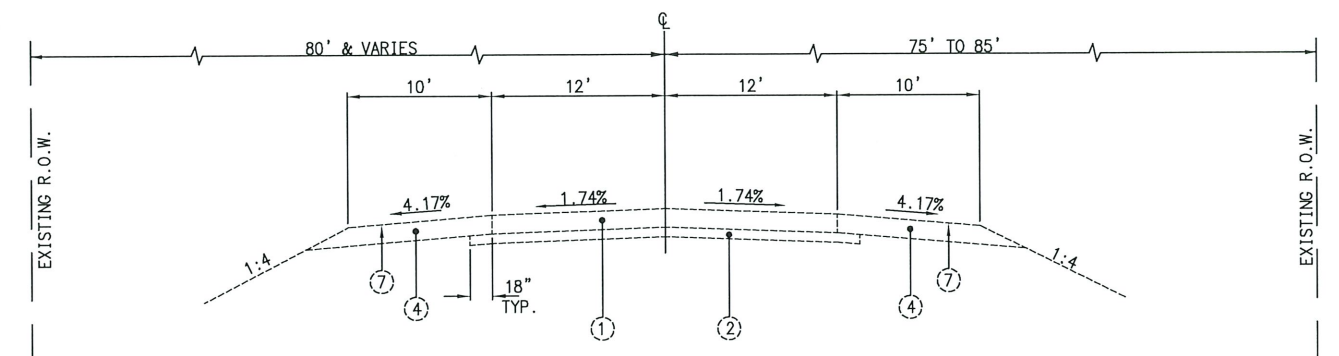


STA 210+50.20 TO STA 211+08.83

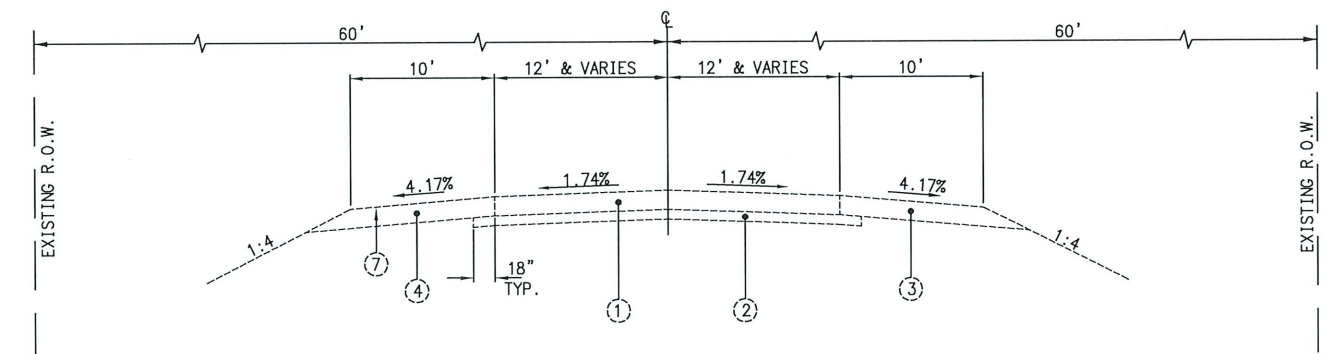
SUPER ELEVATION DATA (RECORD PLANS)	
SLOPE	STATION
* TRANSITION (NORMAL CROWN TO 5.20%)	206+04 TO 207+54
FULL SUPER (5.20%)	207+54 TO 211+57
TRANSITION (5.20% TO NORMAL CROWN)	211+57 TO 213+10
NORMAL CROWN = 1.56%	



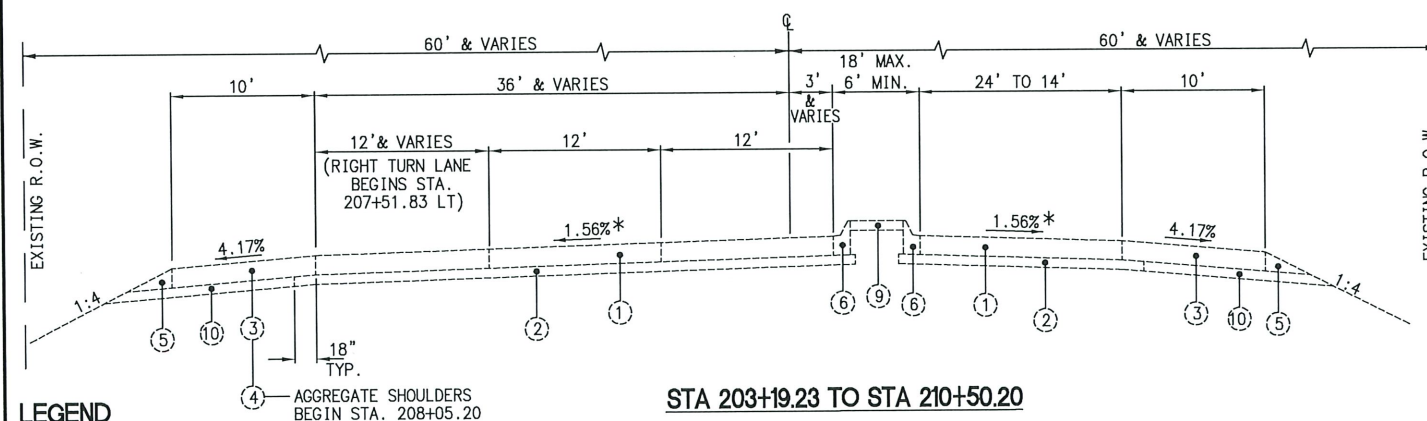
STA 232+43.90 TO STA 237+00.00



STA 215+72.14 TO STA 232+43.90
PAVING OMISSION: STA. 213+57.57 TO 215+72.14



STA 212+06.65 TO STA 213+57.57



STA 203+19.23 TO STA 210+50.20

LEGEND

- ① EX PCC PAVEMENT, 8"
- ② EX STABILIZED SUB-BASE, 4"
- ③ EX HMA SHOULDERS, 8"
- ④ EX AGGREGATE SHOULDER, 8"
- ⑤ EX AGGREGATE WEDGE SHOULDER
- ⑥ EX COMB CONCRETE CURB AND GUTTER, TYPE M-6.06
- ⑦ EX BITUMINOUS SURFACE TREATMENT, CLASS A-2
- ⑧ EX CORRUGATED CONCRETE MEDIAN
- ⑨ EX CONCRETE MEDIAN SURFACE, 4"
- ⑩ EX SUB-BASE GRANULAR MATERIAL, TYPE A 3"
- ⑪ EX PROCESS MODIFIED SOILS, 12"



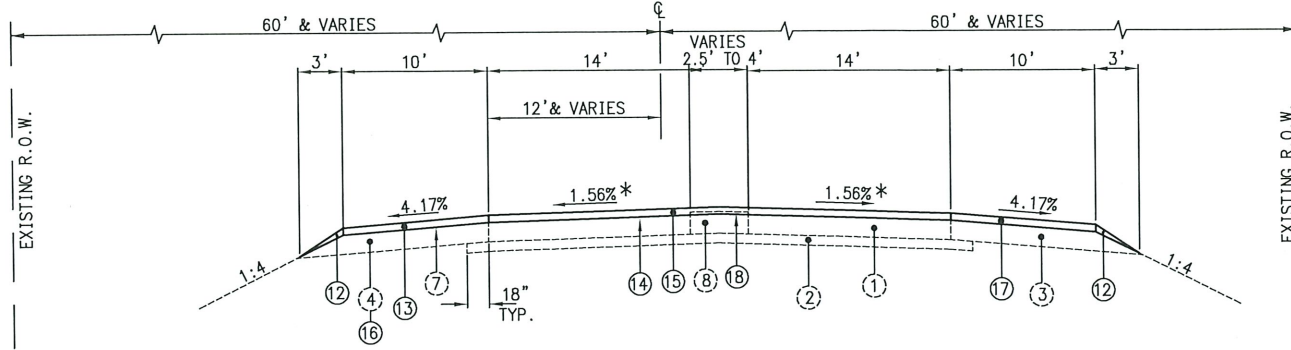
ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

EXISTING TYPICAL SECTIONS

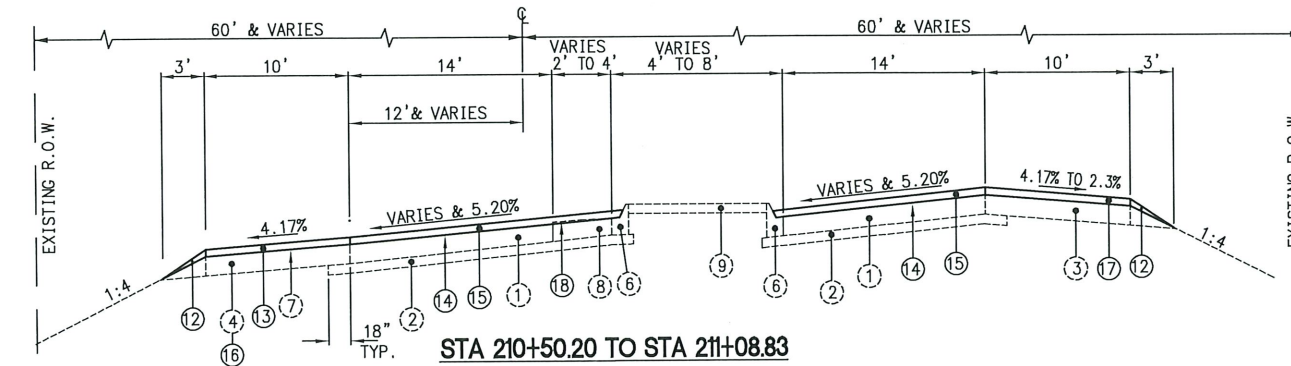
SHEET NO. 1 OF 1 SHEETS

STA 203+19.23 TO STA 237+00

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	4
CONTRACT NO. 97842				

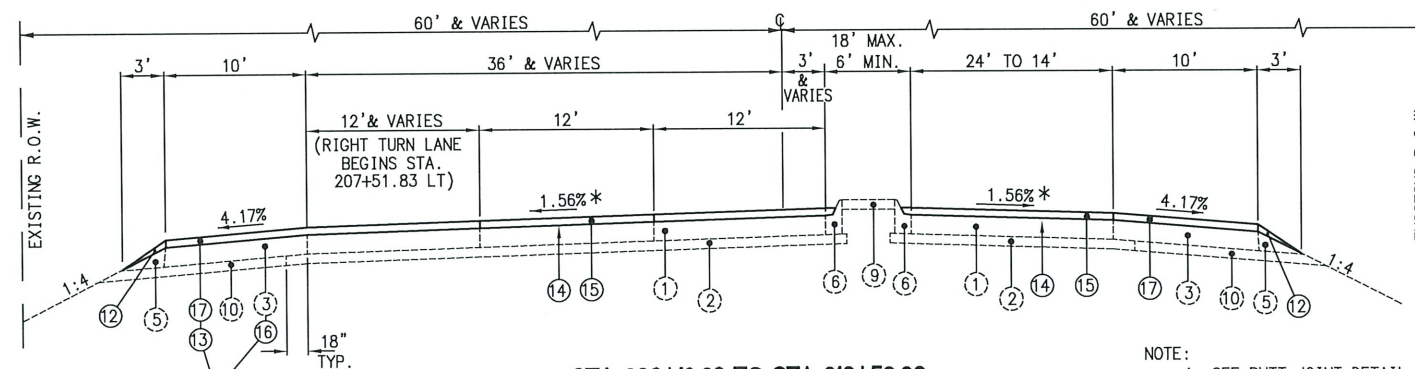


STA 211+08.83 TO STA 212+06.65



STA 210+50.20 TO STA 211+08.83

SUPER ELEVATION DATA (RECORD PLANS)	
SLOPE	STATION
* TRANSITION (NORMAL CROWN TO 5.20%)	206+04 TO 207+54
FULL SUPER (5.20%)	207+54 TO 211+57
TRANSITION (5.20% TO NORMAL CROWN)	211+57 TO 213+10
NORMAL CROWN = 1.56%	

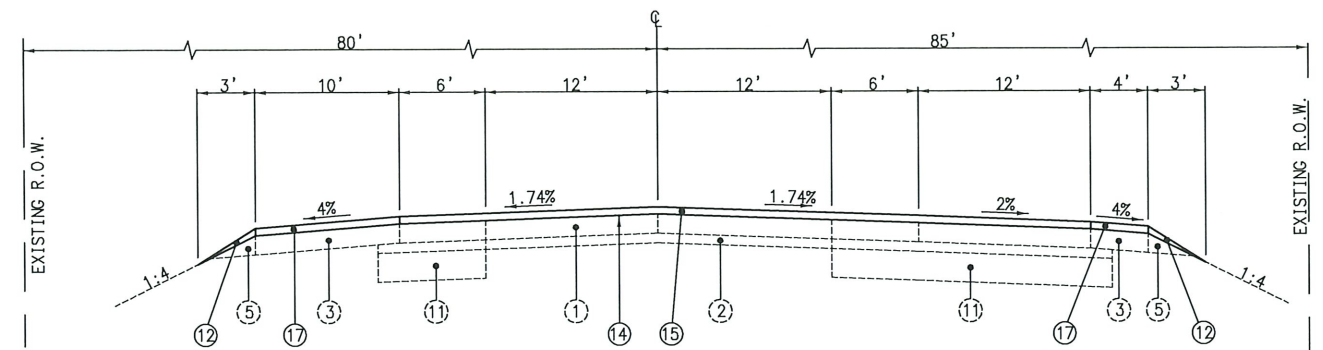


STA 203+19.23 TO STA 210+50.20

- NOTE:
- SEE BUTT JOINT DETAIL.
 - STATION 207+98 TO 208+36: AREA BETWEEN P.C.C. MEDIANS TO BE HMA SURFACE COURSE, 1.5" AND HMA BINDER COURSE, 1.5"

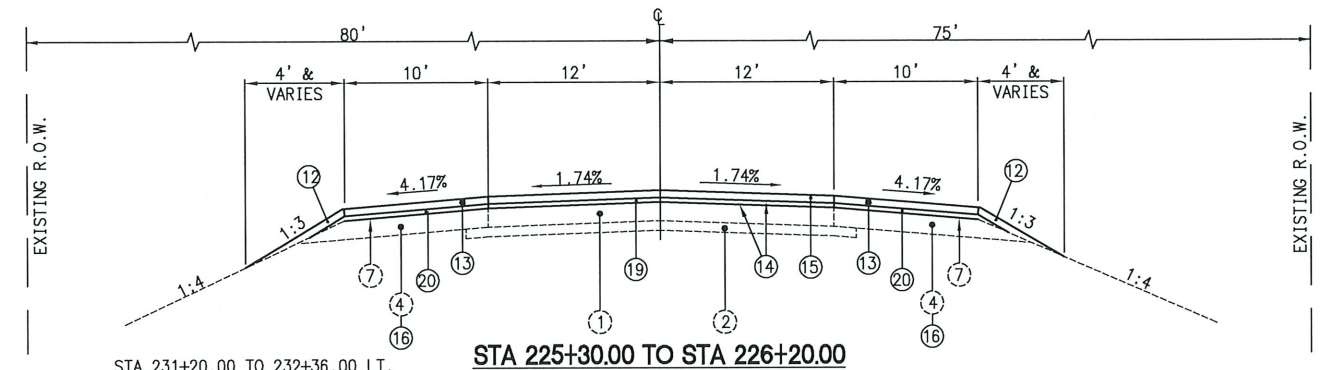
LEGEND

- | | |
|---|--|
| ① EX PCC PAVEMENT, 8" | ⑫ PR AGG WEDGE SHOULDER, TYPE B |
| ② EX STABILIZED SUB-BASE, 4" | ⑬ PR AGG SHOULDER, 3" |
| ③ EX HMA SHOULDERS, 8" | ⑭ PR BITUMINOUS MATERIALS (TACK COAT) |
| ④ EX AGGREGATE SHOULDER, 8" | ⑮ PR HMA SURFACE COURSE, 1.5" AND PROPOSED HMA BINDER COURSE, 1.5" |
| ⑤ EX AGGREGATE WEDGE SHOULDER | ⑯ PR PULVERIZATION OF EXISTING OIL/CHIP SHOULDERS |
| ⑥ EX COMB CONCRETE CURB AND GUTTER, TYPE M-6.06 | ⑰ PR HMA SHOULDERS, 3" |
| ⑦ EX BITUMINOUS SURFACE TREATMENT, CLASS A-2 | ⑱ PR MILLING |
| ⑧ EX CORRUGATED CONCRETE MEDIAN | ⑲ PR HMA BINDER COURSE, VARIABLE DEPTH |
| ⑨ EX CONCRETE MEDIAN SURFACE, 4" | ⑳ PR AGG SHOULDER, VARIABLE DEPTH |
| ⑩ EX SUB-BASE GRANULAR MATERIAL, TYPE A 3" | |
| ⑪ EX SUB-BASE GRANULAR MATERIAL, TYPE A 3" | |



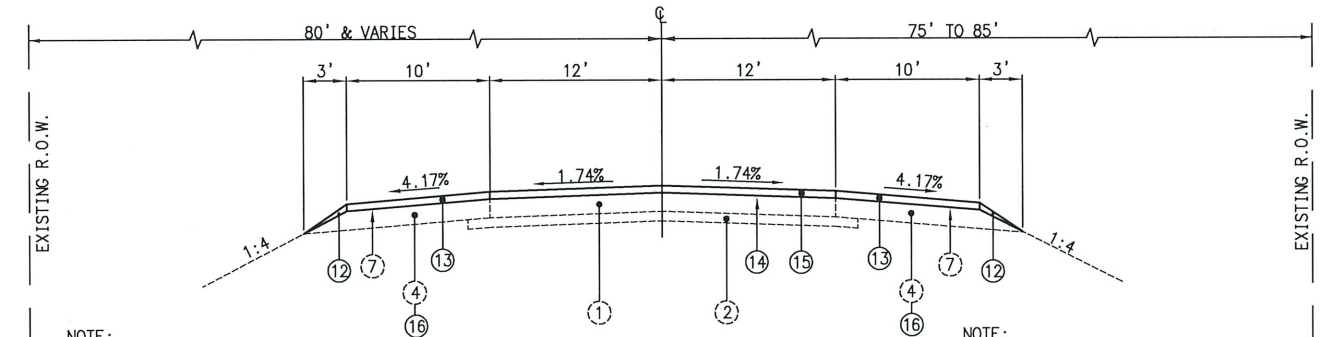
STA 232+43.90 TO STA 237+60.00

NOTE:
SEE BUTT JOINT DETAIL.



STA 225+30.00 TO STA 226+20.00

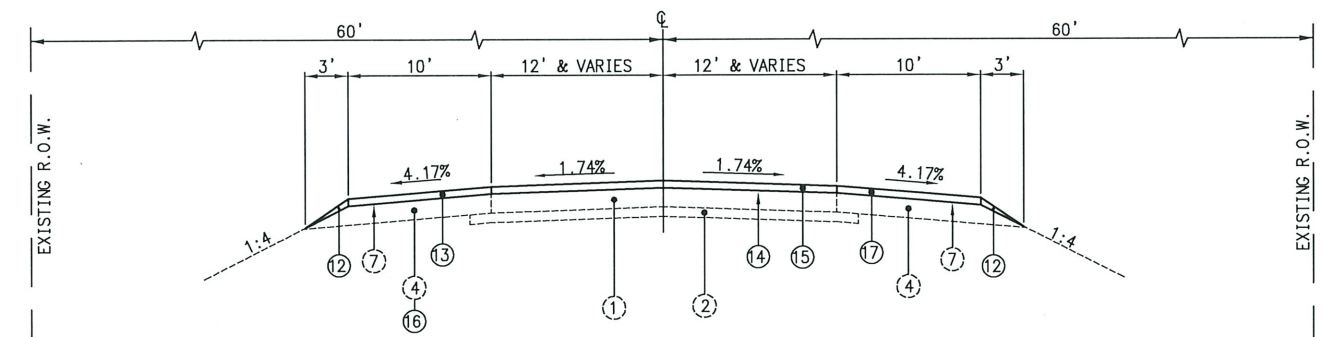
STA 231+20.00 TO 232+36.00 LT.



STA 216+32.14 TO STA 225+30.00
PAVING OMISSION: STA. 213+72.57 TO 215+72.14
STA 226+20.00 TO STA 232+43.90

NOTE:
STA 231+20.00 TO 232+36.00 LT.
SHOULDER SHALL BE 6' WIDE HMA &
4' WIDE AGGREGATE.

NOTE:
STA 231+17.40 TO 232+36.00 RT.
SHOULDER SHALL BE 6' WIDE HMA &
4' WIDE AGGREGATE.



STA 212+06.65 TO STA 213+12.57

NOTE:
SEE BUTT JOINT DETAIL.



ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

PROPOSED TYPICAL SECTIONS

SHEET NO. 1 OF 1 SHEETS

STA 203+19.23 TO STA 237+00

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	5
CONTRACT NO. 97842				

SCHEDULE OF PATCHES

LOCATION (STATION TO STATION)		SIDE	LENGTH (FOOT)	TRANSVERSE WIDTH (FOOT)	CLASS B PATCHES, TYPE I, 8 INCH (SQ YD)	CLASS B PATCHES, TYPE II, 8 INCH (SQ YD)	CLASS B PATCHES, TYPE IV, 8 INCH (SQ YD)	DOWEL BARS 1 1/4" (EACH)	SAW CUTS (FOOT)	WELDED WIRE REINFORCEMENT (SQ YD)	TIE BARS 3/4" (EACH)
203+51.0	203+57.0	LT	6	12		8.0		20	54		
203+91.0	203+97.0	LT	6	12		8.0		20	54		
203+91.0	203+97.0	LT	6	12		8.0		20	54		
205+51.0	205+57.0	LT	6	12		8.0		20	54		
205+51.0	205+57.0	LT	6	12		8.0		20	54		
205+91.0	205+97.0	LT	6	12		8.0		20	54		
205+91.0	205+97.0	LT	6	12		8.0		20	54		
206+31.0	206+37.0	LT	6	12		8.0		20	54		
206+31.0	206+37.0	LT	6	12		8.0		20	54		
206+71.0	206+77.0	LT	6	12		8.0		20	54		
206+71.0	206+77.0	LT	6	9		6.0		14	45		
207+11.0	207+17.0	LT	6	6	4.0			10	36		
207+11.0	207+17.0	LT	6	16		10.7		28	60		
207+49.0	207+55.0	LT	6	16		10.7		28	60		
207+74.5	207+80.5	LT	6	15.3		10.2		26	58		
208+01.5	208+07.5	LT	6	14		9.3		24	54		
208+76.0	208+82.0	LT	6	13.5		9.0		22	53		
210+50.0	210+56.0	LT	6	14		9.3		24	54		
210+69.0	210+75.0	LT	6	14		9.3		24	54		
211+00.0	211+06.0	LT	6	14		9.3		24	54		
211+62.5	211+68.5	LT	6	14		9.3		24	54		
212+31.0	212+37.0	LT	6	14.8		9.9		26	57		
219+19.5	219+25.5	LT	6	12		8.0		20	48		
219+79.5	219+85.5	LT	6	12		8.0		20	48		
221+75.5	221+81.5	LT	6	12		8.0		20	48		
223+73.5	223+79.5	LT	6	12		8.0		20	48		
228+50.0	228+56.0	LT	6	12		8.0		20	48		
228+98.5	229+04.5	LT	6	12		8.0		20	48		
229+50.0	229+56.0	LT	6	12		8.0		20	48		
230+00.0	230+06.0	LT	6	12		8.0		20	48		
232+00.0	232+06.0	LT	6	12		8.0		20	48		
232+88.5	232+92.5	LT	4	3	1.3			4	17		
233+70.5	233+76.5	LT	6	12		8.0		20	54		
233+99.5	234+05.5	LT	6	12		8.0		20	54		
235+73.5	235+79.5	LT	6	12		8.0		20	54		
236+68.5	236+74.5	LT	6	12		8.0		20	54		

SCHEDULE OF PATCHES

LOCATION (STATION TO STATION)		SIDE	LENGTH (FOOT)	TRANSVERSE WIDTH (FOOT)	CLASS B PATCHES, TYPE I, 8 INCH (SQ YD)	CLASS B PATCHES, TYPE II, 8 INCH (SQ YD)	CLASS B PATCHES, TYPE IV, 8 INCH (SQ YD)	DOWEL BARS 1 1/4" (EACH)	SAW CUTS (FOOT)	WELDED WIRE REINFORCEMENT (SQ YD)	TIE BARS 3/4" (EACH)
203+05.0	203+11.0	RT	6	6	4.0			4	30		
203+24.0	203+30.0	RT	6	12		8.0		20	54		
203+24.0	203+30.0	RT	6	8.2		5.5		12	37		
203+51.0	203+57.0	RT	6	12		8.0		20	54		
203+51.0	203+57.0	RT	6	14.1		9.4		24	55		
203+91.0	203+97.0	RT	6	12		8.0		20	54		
203+91.0	203+97.0	RT	6	12.4		8.3		20	50		
204+31.0	204+37.0	RT	6	12		8.0		20	54		
204+31.0	204+37.0	RT	6	12		8.0		20	48		
204+71.0	204+77.0	RT	6	12		8.0		20	54		
204+71.0	204+77.0	RT	6	12		8.0		20	48		
205+11.0	205+17.0	RT	6	12		8.0		20	54		
205+11.0	205+17.0	RT	6	12		8.0		20	48		
205+33.5	205+36.5	RT	3	12	4.0			20	45		
205+51.0	205+57.0	RT	6	12		8.0		20	54		
205+51.0	205+57.0	RT	6	12		8.0		20	48		
205+91.0	205+97.0	RT	6	12		8.0		20	54		
205+91.0	205+97.0	RT	6	12		8.0		20	48		
206+31.0	206+37.0	RT	6	12		8.0		20	54		
206+31.0	206+37.0	RT	6	11.5		7.7		20	47		
206+71.0	206+77.0	RT	6	11.7		7.8		20	54		
206+71.0	206+77.0	RT	6	11.1		7.4		18	46		
207+09.5	207+18.5	RT	9	11.6		11.6		20	62		
207+09.5	207+18.5	RT	9	10.7		10.7		18	51		
207+49.0	207+55.0	RT	6	12		8.0		20	54		
207+49.0	207+55.0	RT	6	9.5		6.3		14	41		
207+73.0	207+82.0	RT	9	12		12.0		20	63		
207+76.0	207+82.0	RT	6	8.8		5.9		14	39		
207+87.5	208+07.5	RT	20	12			26.7	20	96	26.7	12
208+01.5	208+07.5	RT	6	8.2		5.5		12	37		
208+45.0	208+51.0	RT	6	12		8.0		20	54		
208+45.0	208+51.0	RT	6	7	4.7			10	33		
208+62.0	208+68.0	RT	6	12		8.0		20	54		
208+62.0	208+68.0	RT	6	7.3	4.9			10	34		
208+97.0	209+03.0	RT	6	12		8.0		20	54		
208+97.0	209+03.0	RT	6	6.3	4.2			10	31		
210+67.5	210+73.5	RT	6	15		10.0		26	57		
211+00.0	211+06.0	RT	6	14		9.3		24	54		
211+66.0	211+72.0	RT	6	14		9.3		24	54		
212+32.5	212+35.5	RT	3	3	1.0			4	15		
220+50.5	220+56.5	RT	6	12		8.0		20	48		
221+75.5	221+81.5	RT	6	12		8.0		20	48		
223+32.0	223+38.0	RT	6	12		8.0		20	48		
223+73.5	223+79.5	RT	6	12		8.0		20	48		
228+98.5	229+04.5	RT	6	12		8.0		20	48		
229+22.0	229+28.0	RT	6	12		8.0		20	48		
230+50.0	230+56.0	RT	6	12		8.0		20	48		
231+73.5	231+79.5	RT	6	12		8.0		20	48		
234+99.5	235+05.5	RT	6	12		8.0		20	54		
235+73.5	235+79.5	RT	6	12		8.0		20	54		
TOTAL					28.1	637.7	26.7	1662.0	4301.0	26.7	12



ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

TABULATION OF QUANTITIES

SHEET NO. 1 OF 3 SHEETS

STA TO STA

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	6
CONTRACT NO. 97842				

PAVEMENT MARKING SCHEDULE

LOCATION (STATION TO STATION)		SIDE	LETTERS AND SYMBOLS WHITE (SQ FT)	LINE 4" WHITE (FOOT)	LINE 4" YELLOW (FOOT)	LINE 4" DOUBLE YELLOW (FOOT)	LINE 8" WHITE (FOOT)	LINE 12" WHITE (FOOT)	LINE 12" YELLOW (FOOT)	LINE 24" WHITE (FOOT)
203+32.10	204+15.82	LT					227.8	170.6		
203+53.28	————	LT								24
203+53.28	205+74.14	LT		220						
203+53.28	211+08.91	LT			754.5					
203+53.28	211+08.91	RT			758.2					
203+53.28	207+23.28	RT		100						
203+53.28	237+60.00	RT		3411.4						
203+71.13	203+91.28	LT								23
203+91.28	237+60.00	LT		3370.5						
203+78.00	————	LT	31.2							
204+63.00	————	LT	42.7							
205+49.00	————	LT	42.7							
204+15.82	205+74.14	LT		158.3						
205+74.14	207+51.40	LT		42						
211+08.91	212+51.35	℄				523.8			17.7	
212+51.35	232+43.90	℄				3985.2				
232+43.90	237+60.00	℄				1917.4			104	
235+89.60	236+65.00	RT		44						
236+65.00	237+60.00	RT		95						
237+23.00	237+60.00	RT		37						
236+90.00	————	RT	15.6							
237+48.00	————	RT	15.6							
SUB-TOTAL			147.8	7478.2	1512.7	6426.4	227.8	170.6	121.7	47
TOTAL			148	15417			228	293		47

PAVEMENT SCHEDULE

LOCATION (STATION TO STATION)		HMA SURFACE REMOVAL – BUTT JOINT (SQ YD)	PCC SURFACE REMOVAL – BUTT JOINT (SQ YD)	PCC SURFACE REMOVAL – VARIABLE DEPTH (SQ YD)	BITUMINOUS MATERIALS (TACK COAT)			HMA SURFACE COURSE, IL-9.5, MIX "D", N70 (TON)	HMA BINDER COURSE, IL-9.5, N70 (TON)	LONGITUDINAL PARTIAL DEPTH REMOVAL 2" (FOOT)	LONGITUDINAL PARTIAL DEPTH PATCHING (TON)	LONGITUDINAL JOINT SEALANT (FOOT)	HMA BINDER COURSE (HAND METHOD), N70 (TON)
					LONG. JT. (POUND)	1ST LIFT (POUND)	2ND LIFT (POUND)						
203+19.23	203+54	185.6	514.7									1616	1
203+19.23	213+72.57					2455	1228	478.1	390.9				
210+50.20	212+06.65			79.2									
213+42.57	213+72.57		80.5										
215+72.14	216+02.14		80.0									3577	1
216+02.14	219+30.00									327.86	8.16		
228+00.00	232+50.00					45				450	11.20		
215+72.14	237+60.00						3077 *	1485	557.5	562.7 **			
237+00.00	237+60.00	413.4											
SUBTOTAL		599.0	675.2	79.2	78	5532	2713	1035.6	953.6	777.86	19.36	5193	2
TOTAL		599	676	80	8323			1036	954	778	19.4	5193	2

* INCLUDES ADDITIONAL 108 POUNDS OF BITUMINOUS MATERIALS (TACK COAT) FOR AREA OF SUBSIDENCE (STA. 225+30 TO 226+20)
** INCLUDES ADDITIONAL 20 TONS OF HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 FOR AREA OF SUBSIDENCE (STA. 225+30 TO 226+20)

SCHEDULE OF ENTRANCES

LOCATION (STATION)	SIDE	TYPE	EXISTING SURFACE	LENGTH (FOOT)	WIDTH (FOOT)	INCIDENTAL HMA (LENGTH OF SHOULDER) (FOOT)	PCC SURFACE REMOVAL – BUTT JOINT (SQ YD)	AGGREGATE SURFACE COURSE, TYPE B (TON)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	INCIDENTAL HMA SURFACING (TON)
205+70.31	RT	FE	DIRT	10	19			2.7		
206+71.78	LT	FE	DIRT	10	25			2.5		
208+04.59	RT	FE	DIRT	10	22			2.3		
208+21.17	LT	FE	DIRT	10	19			2.0		
220+05.44	RT	CE	CONCRETE	10	36	85	21.2		21	23.3
221+48.96	LT	PE	AGGREGATE	10	14	50		1.9		9.3
222+89.78	LT	FE	DIRT	10	26			2.7		
224+04.26	RT	FE	DIRT	10	13			1.3		
TOTAL						135	21.2	15.4	21	32.6
				USE		135	22	16	21	33

GUARDRAIL SCHEDULE

LOCATION (STATION TO STATION)		SIDE	GUARDRAIL REMOVAL (INCLUDING END TREATMENT) (FOOT)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (EACH)	TERMINAL MARKER DIRECT APPLIED (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 6
212+47.63	213+88.04	RT	140	38	1	1	————	1
215+28.00	217+11.67	RT	184	112	————	——	1	1
213+50.50	214+16.63	LT	66	————	————	——	1	1
215+56.65	216+96.72	LT	140	38	1	1	————	1
TOTAL			530	188	2	2	2	4

SCHEDULE OF TEMPORARY RAMPS

LOCATION (STATION)	MAIN LINE, SIDE ROAD, AND ENTRANCE	LENGTH (FOOT)	WIDTH (FOOT)	TEMPORARY RAMP (SQ YD)
203+19.23	BEGINNING OF PROJECT	5	186	103.3
213+57.57	SOUTH SIDE OF BRIDGE	5	24	13.3
215+87.14	NORTH SIDE OF BRIDGE	5	24	13.3
220+05.44 RT	COMMERCIAL ENTRANCE	5	30	16.7
237+60.00	END OF PROJECT	10	48	53.4
TOTAL				200.0
USE				200

REFLECTIVE MARKER SCHEDULE

LOCATION		SIDE	DISTANCE BETWEEN MARKERS	RAISED REFLECTIVE PAVEMENT MARKER TWO WAY AMBER	RAISED REFLECTIVE PAVEMENT MARKER ONE WAY AMBER	RAISED REFLECTIVE PAVEMENT MARKER ONE WAY CRYSTAL
(STATION TO STATION)			(FOOT)	(EACH)	(EACH)	(EACH)
203+32.1	205+72.1	LT	40			13
203+53.3	207+23.3	RT	80			5
211+08.9	212+22.3	CL	40		8	
212+62.8	213+42.8	CL	40	6		
213+82.8	230+62.8	CL	80	22		
231+42.8	232+22.8	CL	40	6		
232+62.8	236+62.8	CL	40		22	
236+76.6	237+56.6	RT	40			3
237+04.0	237+44.0	CL	40	4		
237+42.5	——	RT	——			1
			SUB-TOTAL	38	30	22
			TOTAL	90		

SHORT TERM PAVEMENT MARKING SCHEDULE

LOCATION (STATION TO STATION)		SHORT TERM PAVEMENT MARKING YELLOW (FOOT)	SHORT TERM PAVEMENT MARKING WHITE (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)
203+17.8	212+51.3	32	84	38.7
212+51.3	232+43.9	188	————	62.7
232+43.9	237+60	88	————	29.3
SUB-TOTAL		308	84	130.7
X 2 APPLICATIONS		616	168	261.4
USE		784		262

SHOULDER SCHEDULE

LOCATION		SIDE	WIDTH (FOOT)	AGGREGATE SHOULDERS, TYPE B	AGGREGATE WEDGE SHOULDER, TYPE B	HOT-MIX ASPHALT SHOULDERS	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	COVER COAT AGGREGATE	SEAL COAT AGGREGATE	
(STATION TO STATION)				(TON)	(TON)	(TON)	(TON)	(TON)	(TON)	(TON)	(TON)
203+99.96	208+05.20	LT	10			90.9					
204+09.00	206+58.34	LT	3		9.6						
206+84.09	208+09.46	LT	3		3.6						
208+05.20	213+80.76	LT	10	110.7			0.9	1.8	6.3	6.3	
208+30.84	213+80.51	LT	3		15.8						
215+85.73	221+22.94	LT	10	104.5			0.9	1.8	6.0	6.0	
215+85.76	221+37.11	LT	3		16.0						
221+22.94	221+72.94	LT	10								
221+58.45	222+76.43	LT	3		3.4						
221+72.94	231+20.00	LT	10	198.2			1.5	3.0	10.5	10.5	
223+03.73	237+60.00	LT	3		42.5						
231+20.00	232+36.00	LT	4	10.4			0.1	0.2	0.6	0.6	
231+20.00	232+36.00	LT	6			11.7					
232+36.00	237+60.00	LT	10			97.6					
202+59.55	213+58.74	RT	10			210.7					
202+68.15	205+57.42	RT	3		9.2						
205+84.73	207+92.60	RT	3		6.1						
208+15.96	213+58.84	RT	3		16.0						
215+64.00	219+62.89	RT	10	77.5			0.6	1.2	4.4	4.4	
215+64.11	219+82.88	RT	3		12.2						
219+62.89	220+47.89	RT	10								
220+25.49	223+97.33	RT	3		10.8						
220+47.55	231+17.40	RT	10	222.0			1.7	3.4	11.9	11.9	
224+10.92	237+60.00	RT	3		39.3						
231+17.40	232+36.00	RT	4	9.8			0.1	0.2	0.6	0.6	
231+17.40	232+36.00	RT	6			13.0					
232+36.00	234+03.22	RT	10			31.0					
234+03.22	235+64.43	RT	Taper 10 to 4			21.2					
235+64.43	237+60.00	RT	4			14.5					
				TOTAL	733.1	184.5	490.6	5.8**	11.6**	40.3**	40.3**
				USE	734*	185	491				

* INCLUDES ADDITIONAL 28 TONS OF AGGREGATE SHOULDERS, TYPE B FOR AREA OF SUBSIDENCE (STA. 225+30 TO 226+20)

** FOR INFORMATIONAL PURPOSES ONLY



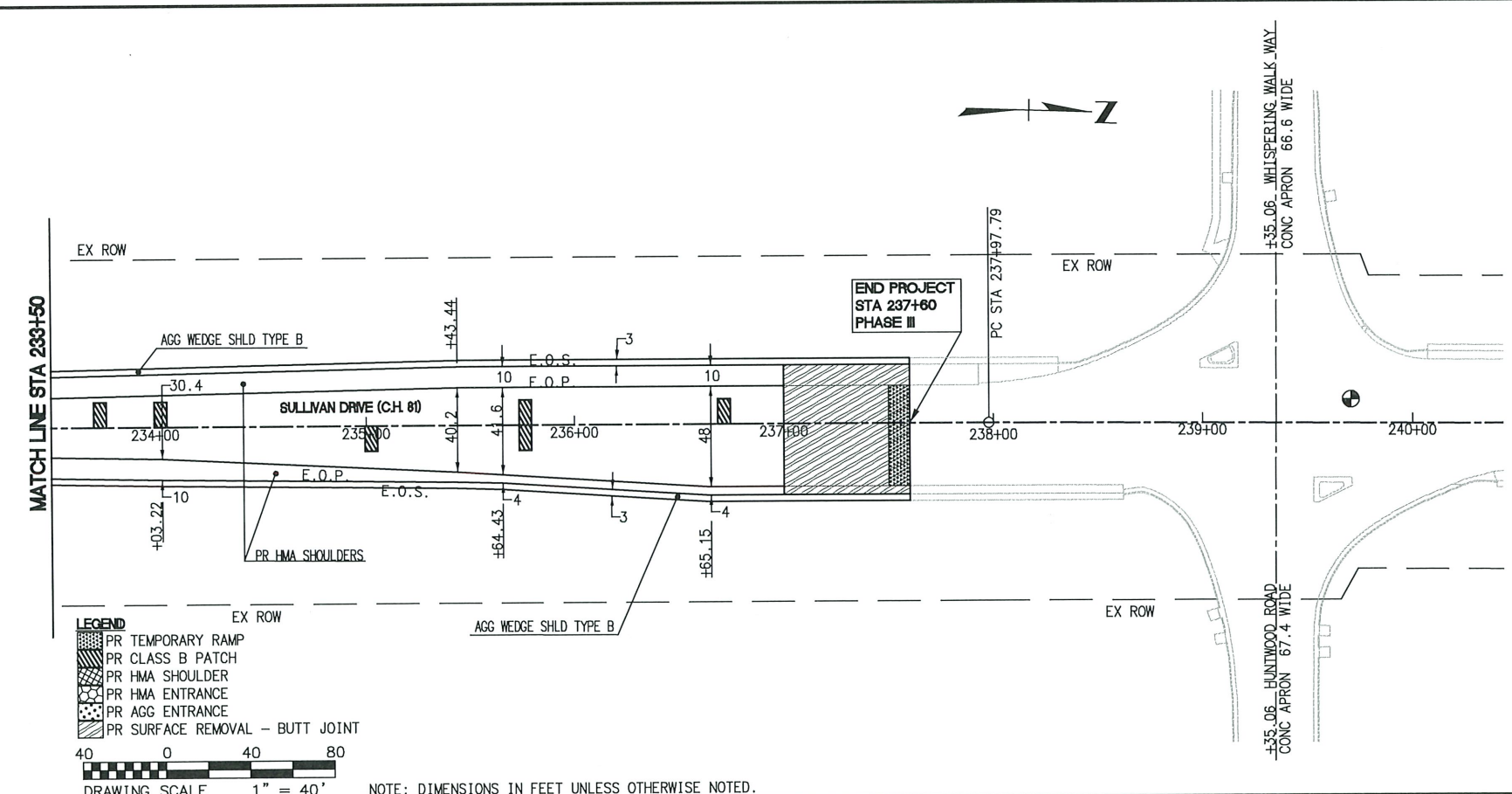
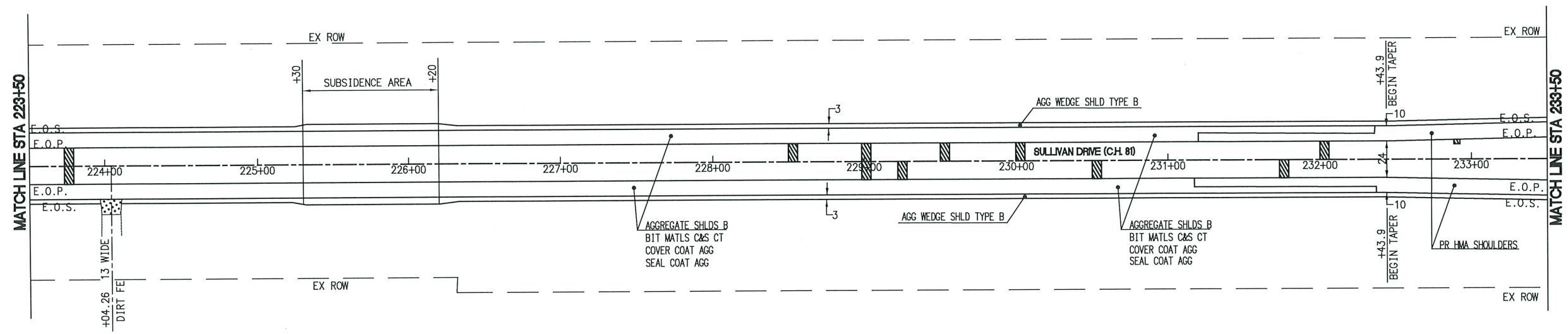
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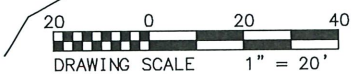
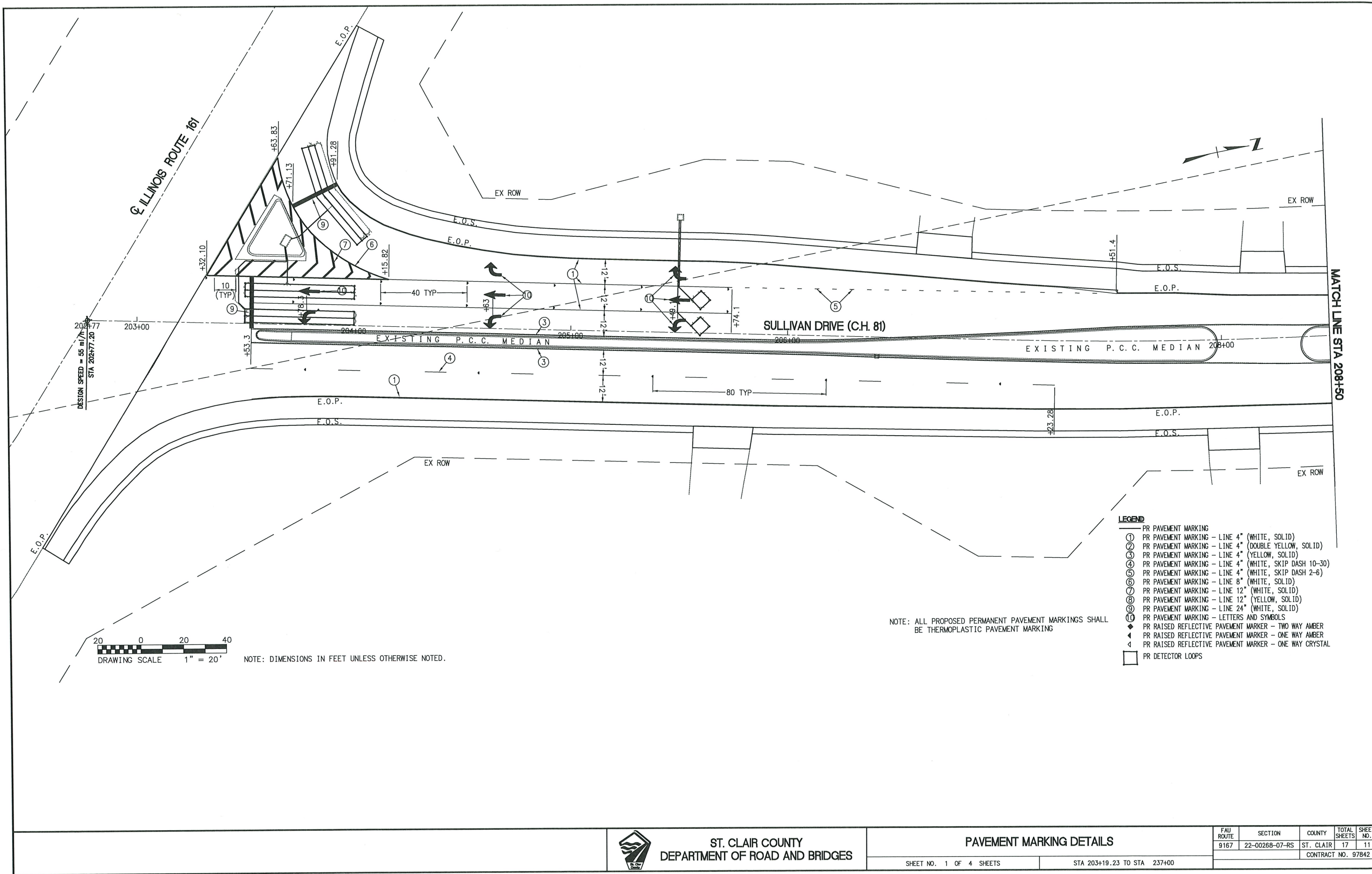
TABULATION OF QUANTITIES

SHEET NO. 3 OF 3 SHEETS

STA TO STA

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	8
CONTRACT NO. 97842				





NOTE: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

NOTE: ALL PROPOSED PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING

- LEGEND**
- ① PR PAVEMENT MARKING - LINE 4" (WHITE, SOLID)
 - ② PR PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, SOLID)
 - ③ PR PAVEMENT MARKING - LINE 4" (YELLOW, SOLID)
 - ④ PR PAVEMENT MARKING - LINE 4" (WHITE, SKIP DASH 10-30)
 - ⑤ PR PAVEMENT MARKING - LINE 4" (WHITE, SKIP DASH 2-6)
 - ⑥ PR PAVEMENT MARKING - LINE 8" (WHITE, SOLID)
 - ⑦ PR PAVEMENT MARKING - LINE 12" (WHITE, SOLID)
 - ⑧ PR PAVEMENT MARKING - LINE 12" (YELLOW, SOLID)
 - ⑨ PR PAVEMENT MARKING - LINE 24" (WHITE, SOLID)
 - ⑩ PR PAVEMENT MARKING - LETTERS AND SYMBOLS
 - ◆ PR RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER
 - ◀ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY AMBER
 - ◄ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY CRYSTAL
 - PR DETECTOR LOOPS

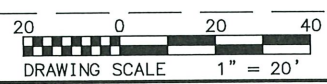
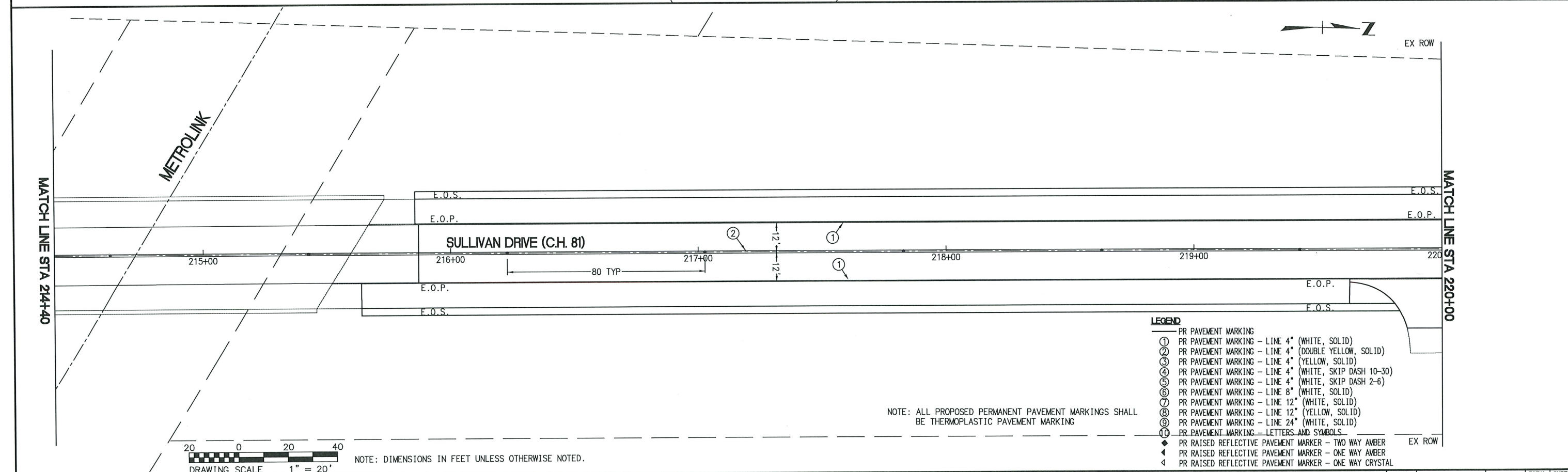
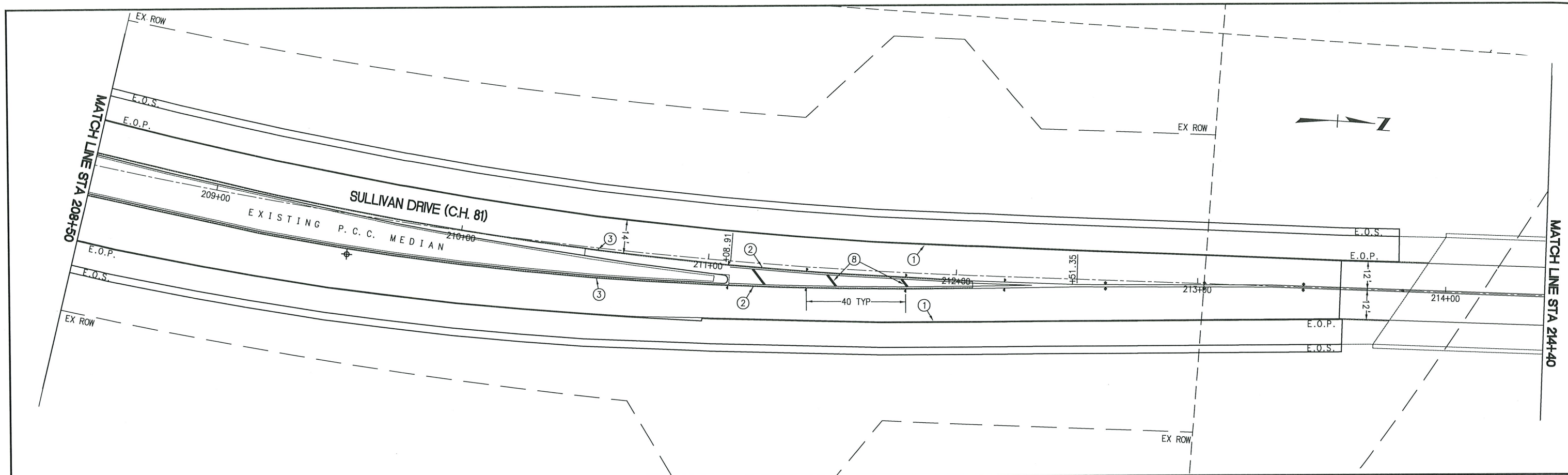


ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

PAVEMENT MARKING DETAILS

SHEET NO. 1 OF 4 SHEETS STA 203+19.23 TO STA 237+00

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	11
CONTRACT NO. 97842				



NOTE: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

NOTE: ALL PROPOSED PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING

LEGEND

- PR PAVEMENT MARKING
- ① PR PAVEMENT MARKING - LINE 4" (WHITE, SOLID)
- ② PR PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, SOLID)
- ③ PR PAVEMENT MARKING - LINE 4" (YELLOW, SOLID)
- ④ PR PAVEMENT MARKING - LINE 4" (WHITE, SKIP DASH 10-30)
- ⑤ PR PAVEMENT MARKING - LINE 4" (WHITE, SKIP DASH 2-6)
- ⑥ PR PAVEMENT MARKING - LINE 8" (WHITE, SOLID)
- ⑦ PR PAVEMENT MARKING - LINE 12" (WHITE, SOLID)
- ⑧ PR PAVEMENT MARKING - LINE 12" (YELLOW, SOLID)
- ⑨ PR PAVEMENT MARKING - LINE 24" (WHITE, SOLID)
- ⑩ PR PAVEMENT MARKING - LETTERS AND SYMBOLS
- ◆ PR RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER
- ▲ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY AMBER
- ◀ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY CRYSTAL



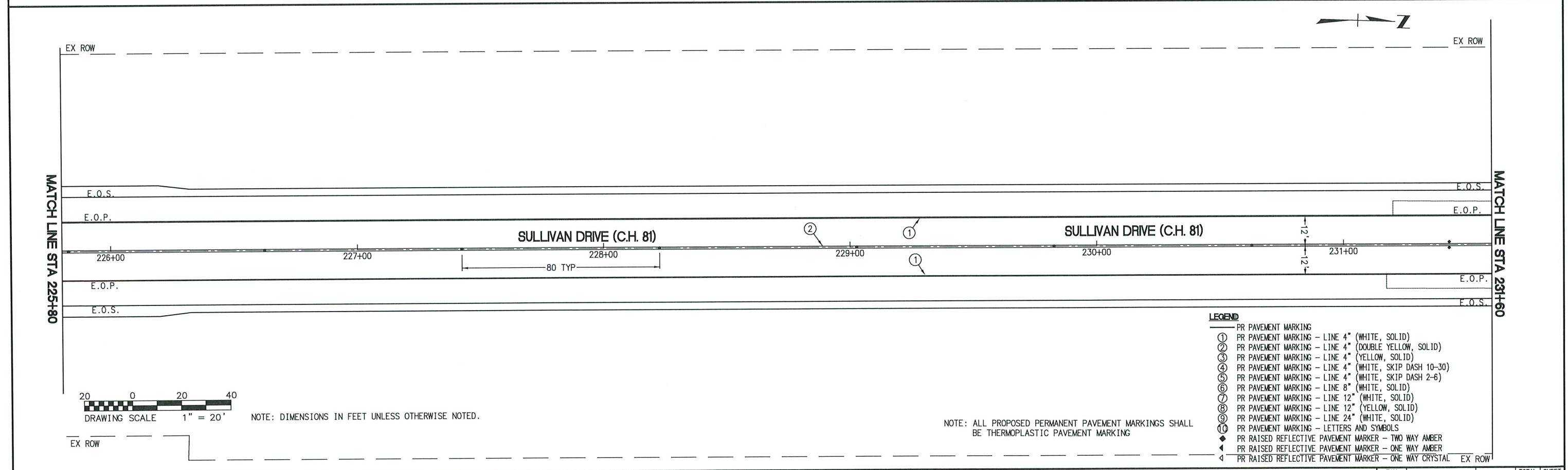
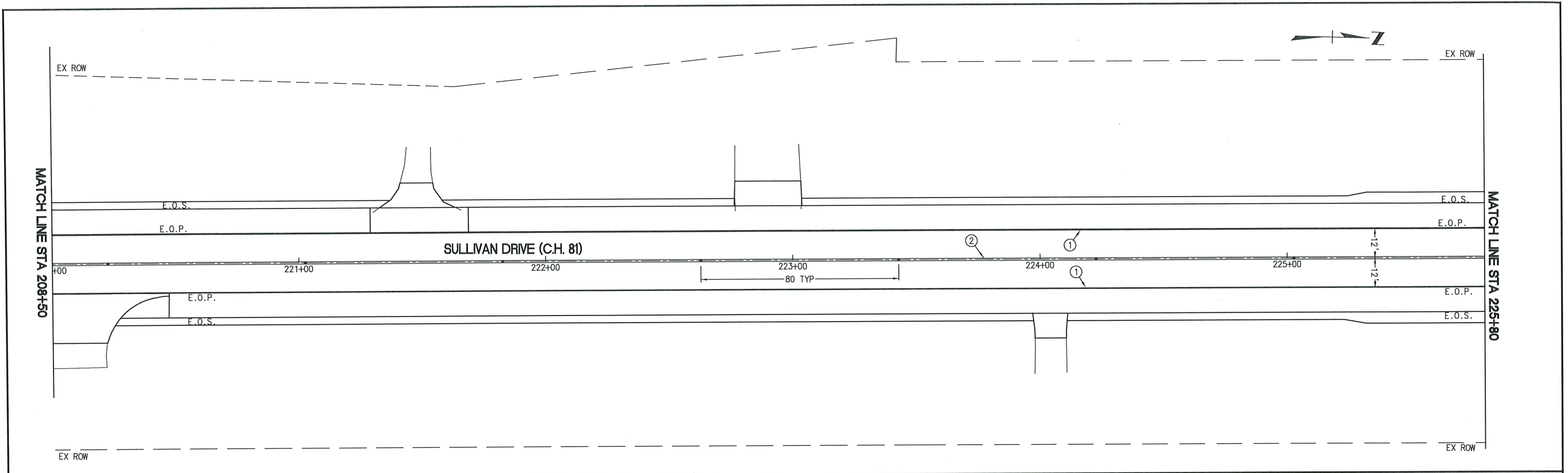
ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

PAVEMENT MARKING DETAILS

SHEET NO. 2 OF 4 SHEETS

STA 203+19.23 TO STA 237+00

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	12
CONTRACT NO. 97842				



NOTE: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

NOTE: ALL PROPOSED PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING

- LEGEND**
- ① PR PAVEMENT MARKING - LINE 4" (WHITE, SOLID)
 - ② PR PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, SOLID)
 - ③ PR PAVEMENT MARKING - LINE 4" (YELLOW, SOLID)
 - ④ PR PAVEMENT MARKING - LINE 4" (WHITE, SKIP DASH 10-30)
 - ⑤ PR PAVEMENT MARKING - LINE 4" (WHITE, SKIP DASH 2-6)
 - ⑥ PR PAVEMENT MARKING - LINE 8" (WHITE, SOLID)
 - ⑦ PR PAVEMENT MARKING - LINE 12" (WHITE, SOLID)
 - ⑧ PR PAVEMENT MARKING - LINE 12" (YELLOW, SOLID)
 - ⑨ PR PAVEMENT MARKING - LINE 24" (WHITE, SOLID)
 - ⑩ PR PAVEMENT MARKING - LETTERS AND SYMBOLS
 - ◆ PR RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER
 - ▲ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY AMBER
 - ◀ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY CRYSTAL



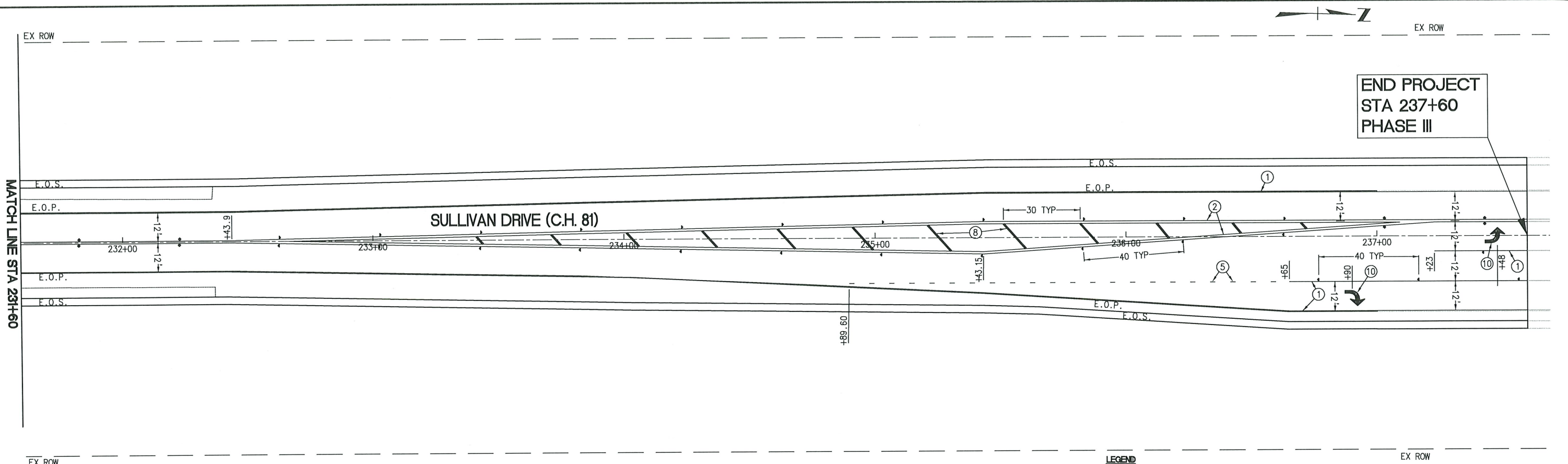
ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

PAVEMENT MARKING DETAILS

SHEET NO. 3 OF 4 SHEETS

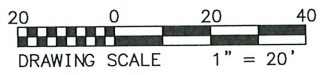
STA 203+19.23 TO STA 237+00

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	13
CONTRACT NO. 97842				



END PROJECT
STA 237+60
PHASE III

MATCH LINE STA 234+60



NOTE: DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

NOTE: ALL PROPOSED PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKING

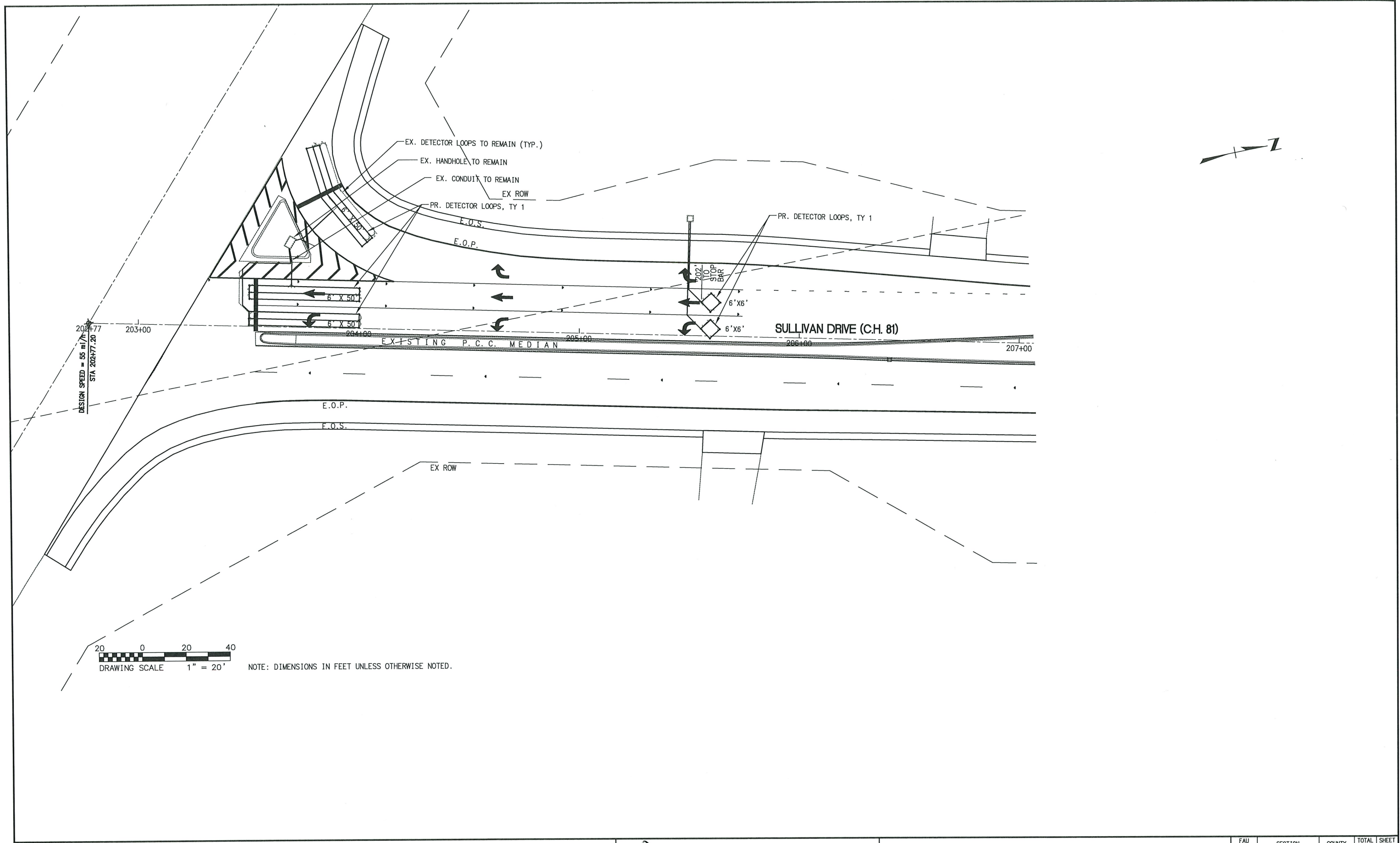
- LEGEND**
- ① PR PAVEMENT MARKING - LINE 4" (WHITE, SOLID)
 - ② PR PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW, SOLID)
 - ③ PR PAVEMENT MARKING - LINE 4" (YELLOW, SOLID)
 - ④ PR PAVEMENT MARKING - LINE 4" (WHITE, SKIP DASH 10-30)
 - ⑤ PR PAVEMENT MARKING - LINE 4" (WHITE, SKIP DASH 2-6)
 - ⑥ PR PAVEMENT MARKING - LINE 8" (WHITE, SOLID)
 - ⑦ PR PAVEMENT MARKING - LINE 12" (WHITE, SOLID)
 - ⑧ PR PAVEMENT MARKING - LINE 12" (YELLOW, SOLID)
 - ⑨ PR PAVEMENT MARKING - LINE 24" (WHITE, SOLID)
 - ⑩ PR PAVEMENT MARKING - LETTERS AND SYMBOLS
 - ◆ PR RAISED REFLECTIVE PAVEMENT MARKER - TWO WAY AMBER
 - ◀ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY AMBER
 - ◁ PR RAISED REFLECTIVE PAVEMENT MARKER - ONE WAY CRYSTAL

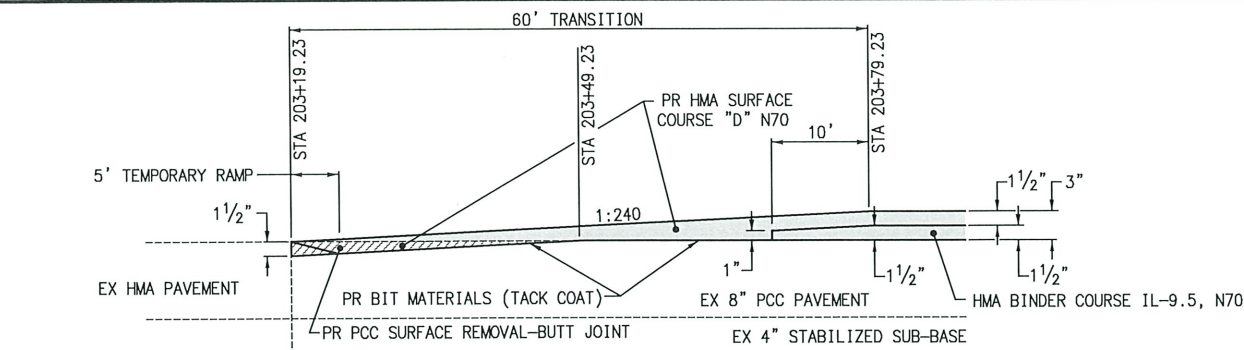
GENERAL NOTES

1. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY I.D.O.T. BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
2. DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER ARTICLE 873.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
3. QUADRUPLE DETECTOR LOOPS SHALL HAVE 3 TURNS WITH SIX WIRES IN THE CENTER SLOT.
4. THE FOLLOWING I.D.O.T. STANDARDS SHALL APPLY TO THE CONSTRUCTION OF THE SIGNALS: 000001-08, 886001-01, & 886006-01.

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS NORTH OF INTERSECTION OF SULLIVAN DRIVE AND IL. RTE. 161		
LOOP	LOOP SIZE	REQUIRED # OF TURNS
SULLIVAN DRIVE SB LT TURN	6' X 50'	3-6-3
SULLIVAN DRIVE SB THRU	6' X 50'	3-6-3
SULLIVAN DRIVE SB RT TURN	6' X 50'	3-6-3
SULLIVAN DRIVE SB LT TURN	6' X 6'	5
SULLIVAN DRIVE SB THRU	6' X 6'	5

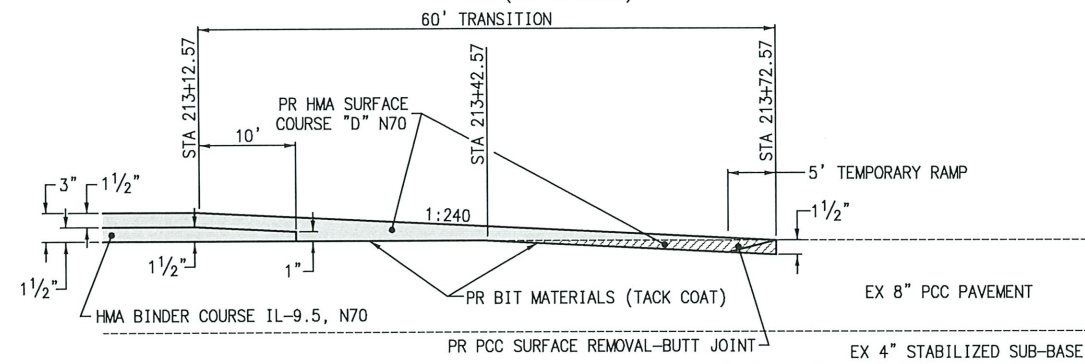
CODE NO.	ITEM	UNIT	QUANTITY
87301305	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR	FOOT	89
88600100	DETECTOR LOOP, TYPE 1	FOOT	654
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	89





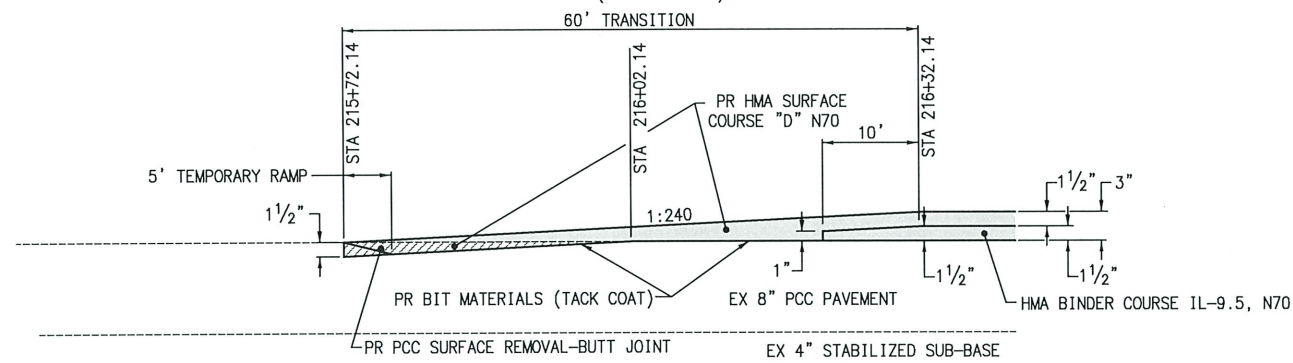
DETAIL OF CONNECTION

IL RTE 161
(NOT TO SCALE)



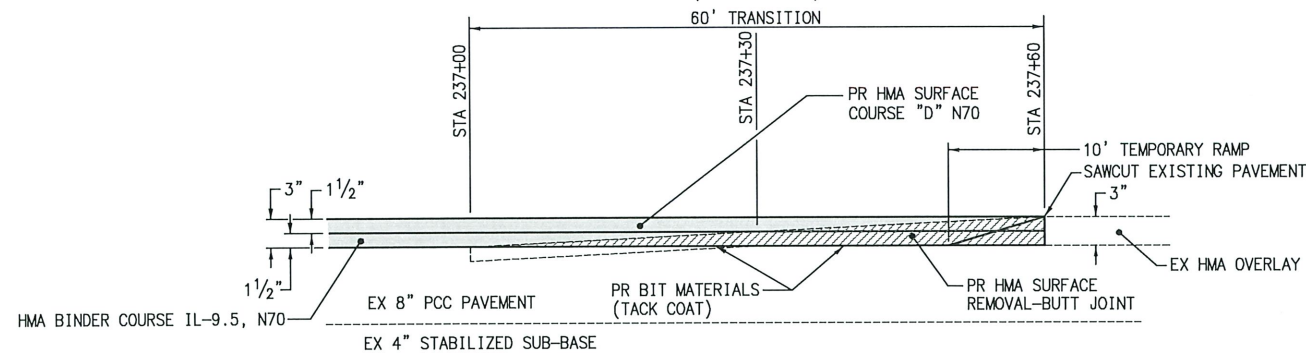
DETAIL OF CONNECTION

SOUTH BRIDGE APPROACH
(NOT TO SCALE)



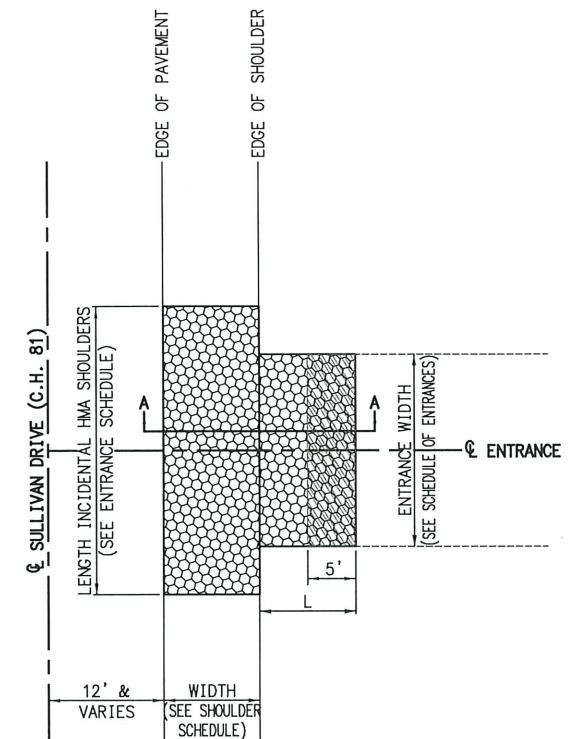
DETAIL OF CONNECTION

NORTH BRIDGE APPROACH
(NOT TO SCALE)



DETAIL OF CONNECTION

NORTHERN PROJECT LIMITS
(NOT TO SCALE)

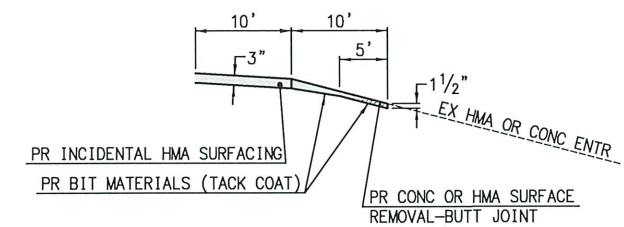


LEGEND

- PR INCIDENTAL HMA SURFACE
- PR SURFACE REMOVAL - BUTT JOINT

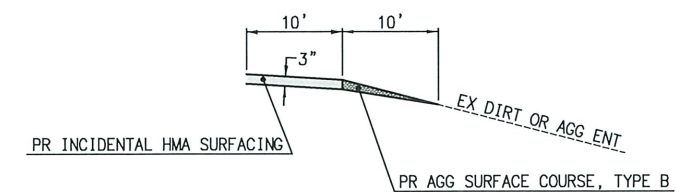
PLAN VIEW

(NOT TO SCALE)



SECTION A-A

HOT MIX ASPHALT OR
CONCRETE ENTRANCE
(NOT TO SCALE)



SECTION A-A

AGGREGATE OR
DIRT ENTRANCE
(NOT TO SCALE)

TYPICAL ENTRANCE DETAIL
SEE ENTRANCE SCHEDULE FOR LOCATION AND TYPE



ST. CLAIR COUNTY
DEPARTMENT OF ROAD AND BRIDGES

DETAILS

SHEET NO. 1 OF 1 SHEETS

STA TO STA

FAU ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9167	22-00268-07-RS	ST. CLAIR	17	17
CONTRACT NO. 97842				