

03-09-2018 LETTING ITEM 141

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	1
FEDERAL AID PROJECT			CONTRACT 97651	

**PLANS FOR PROPOSED
LOCAL AGENCY PROJECT**

FAU ROUTE 9148 (MILBURN SCHOOL ROAD) / FAU ROUTE 9168 (OLD COLLINSVILLE ROAD)
MILBURN SCHOOL ROAD / OLD COLLINSVILLE ROAD ROUNDABOUT

SECTION 12-00059-05-PV
PROJECT NO. ANNEX (626)
CITY OF O'FALLON, ILLINOIS
ST. CLAIR COUNTY
JOB NO. C-98-366-12
CMAQ PROGRAM

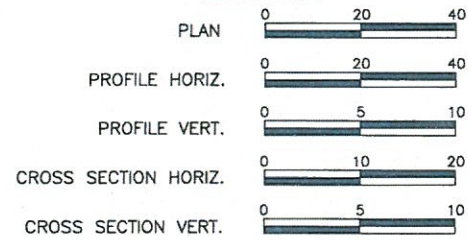
R. 8 W. | R. 7 W.



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SCALES:



MILBURN SCHOOL ROAD

ROADWAY DESIGNATION: MAJOR COLLECTOR
DESIGN SPEED: 45 M.P.H.

ADT: CURRENT (2017) 5,200
20-YEAR (2037) 6,150

OLD COLLINSVILLE ROAD

ROADWAY DESIGNATION: MAJOR COLLECTOR (S); LOCAL ROAD (N)
DESIGN SPEED: 40 M.P.H. (SOUTH); 45 M.P.H. (NORTH)

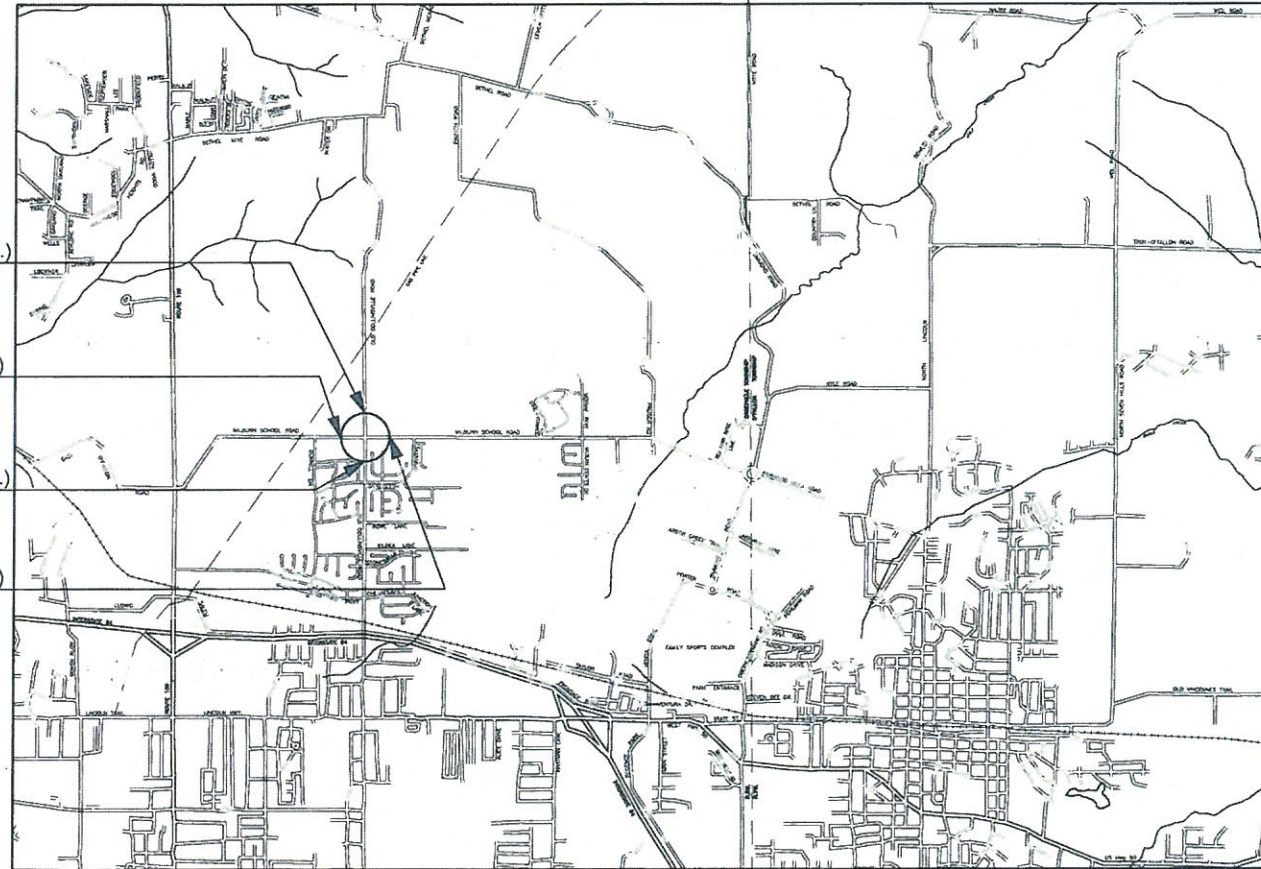
ADT: CURRENT (2017) 4,150
20-YEAR (2037) 5,000

END PROJECT
(OLD COLLINSVILLE RD.)
STA. 82+33.75

BEGIN PROJECT
(MILBURN SCHOOL RD.)
STA. 919+83.00

BEGIN PROJECT
(OLD COLLINSVILLE RD.)
STA. 78+00.00

END PROJECT
(MILBURN SCHOOL RD.)
STA. 925+72.35



3rd P.M.
LOCATION MAP
NOT TO SCALE

MILBURN SCHOOL ROAD STA. 919+83.00 TO 925+72.35 = (589.35 FT. = 0.112 MILES)
OLD COLLINSVILLE ROAD STA. 78+00.00 TO 82+33.75 = (433.75 FT. = 0.082 MILES)
NET LENGTH OF IMPROVEMENT = 1,023.10 FT. = 0.194 MILES

HOLD IT ! CALL BEFORE YOU DIG !
Phone J.U.L.I.E.



The owner would like to remind you that underground utility facilities can be damaged by shovel blades or other digging equipment. You can prevent damage or possible personal danger by phoning 800-92-0123 at least 48 hours before you dig. That's the toll-free number for "J.U.L.I.E.", which stands for Joint Utilities Location Information for Excavators.

If there are any pipes, cables, lines or mains in the excavation area, utility personnel will be out to mark the facilities so you can work around them.

Toll Free 800/892-0123

ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>[Signature]</i> DATE 12/14/17
MAYOR, CITY OF O'FALLON	
PASSED	<i>[Signature]</i> DATE 1/4/18
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS	
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>[Signature]</i> DATE 1/4/18
REGION FIVE ENGINEER	

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PREPARED BY:

RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS

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REGIONAL OFFICE
7 CARPENTER DRIVE
SALEM, ILLINOIS 62881
(618) 532-1992



Mark A. Rujawitz
Mark A. Rujawitz
12/7/2017
Date of Signing
11/30/2019
Date of License Expiration

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	2
FEDERAL AID PROJECT			CONTRACT 97651	

GENERAL NOTES

- 1.) PAVEMENT MARKING SHALL BE COMPLETED DURING INTERSECTION CLOSURE. A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT FOR PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE PLANS TO ACCOMMODATE SEASONAL CONSTRUCTION.
- 2.) THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
- 3.) ALL AREAS DISTURBED FOR ANY REASON WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 2 SEEDING. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04 AND SHALL BE INCLUDED IN THE COST OF THE SEEDING. AREAS DISTURBED BEYOND THE CONSTRUCTION LIMITS SHALL BE SEEDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- 4.) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 5.) AN ESTIMATED 510 TONS OF HMA SURFACE / PAVEMENT WILL BE REMOVED DURING PAVEMENT REMOVAL FOR THIS PROJECT.
- 6.) THE COST OF REMOVING AND RELOCATING ALL EXISTING TRAFFIC AND ADVERTISEMENT SIGNS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 7.) FACTORS USED FOR APPLICATION RATES AND QUANTITY CALCULATIONS ARE AS FOLLOWS:
- 8.) WHEN CHANGES IN THE VERTICAL OR HORIZONTAL DIMENSIONS OF GUTTERS, CURBS, OR CURB AND GUTTERS ARE MADE FROM ONE TYPE TO ANOTHER, AS SHOWN IN THE PLANS, TRANSITIONS WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR THE TYPE SPECIFIED IN THE PLAN SCHEDULE.
- 9.) THE REMOVAL OF ANY CURB/CURB AND GUTTER SHALL ALSO INCLUDE THE DISCONNECTION OF THE EXISTING CURB/CURB AND GUTTER FROM ANY REINFORCEMENT OR COLLATERAL MATERIAL THAT MAY BE PRESENTLY ATTACHED. THERE SHALL NOT BE ANY ADDITIONAL RENUMERATION, AS THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM.
- 10.) THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT.
- 11.) WHEN THE PLAN OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE CITY OF O'FALLON AS TO THE LOCATION OF SUCH UTILITIES AND IS INCLUDED ONLY FOR THE CONVENIENCE OF THE BIDDER.
- 12.) A NOMINAL QUANTITY OF 100 CU. YD. HAS BEEN INCLUDED IN THE PLANS FOR REMOVAL OF UNSUITABLE MATERIAL. THE ENGINEER SHALL BE THE SOLE JUDGE FOR DETERMINATION OF SAID AREAS.
- 13.) MIXTURE REQUIREMENTS FOR HMA IS AS FOLLOWS:

MIXTURE USE(S)	SURFACE COURSE	BINDER COURSE
AC/PG	PG 64-22	PG 64-22
RAP % (MAX.)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5	IL-19.0
FRICTION AGG	MIXTURE "D"	N/A
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

PAVING

ALL HOT-MIX ASPHALT	0.056 TONS/SQ. YD./INCH
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LBS/SQ FT (AGG)
BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS/SQ FT (HMA, PCC)
	0.025 LBS/SQ FT (FOG COAT-HMA)
AGGREGATE BASE COURSE	0.0555 TONS/SQ. YD./INCH

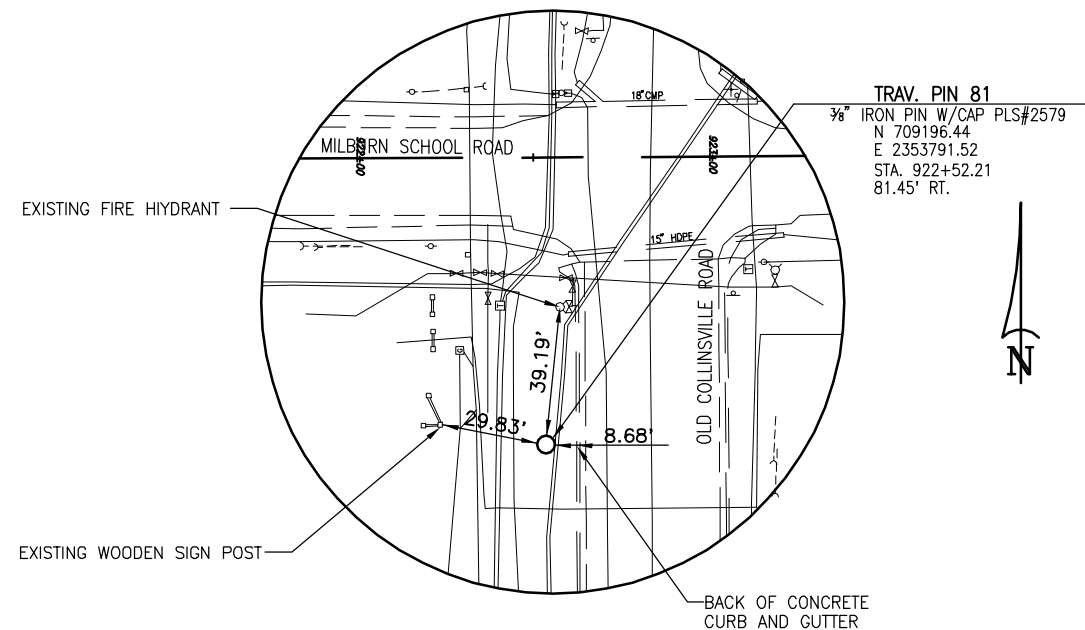
APPLICABLE IDOT HIGHWAY STANDARDS:

001001-02	602306-03	701006-05	728001-01
001006	602406-08	701011-04	729001-01
280001-07	602601-05	701901-07	731001-01
424011-03	604066-02	720001-01	780001-05
542301-03	604091-03	720006-04	782001-01
602301-04	606001-07	720011-01	BLR 21-9

UTILITY TYPE	NAME OF UTILITY	PHONE NUMBER	CONTACT NAME
ELECTRIC	AMEREN IP	618-346-1270	ANDY PARKER
GAS (TRANS)	AMEREN IP	217-424-6934	MARK SNOW
GAS (LOW PRESS)	AMEREN IP	618-346-1621	KATE SODOM
WATER	CITY OF O'FALLON	618-624-4500	HEIDE BELL
WATER	VILLAGE OF CASEYVILLE	618-344-1234	BRIAN RADER
TELEPHONE	AT&T	618-624-4561	DORIAN KENNEDY
CABLE	CHARTER COMMUNICATIONS	636-387-6633	LISA WARD
SANITARY SEWER	CASEYVILLE TOWNSHIP	618-632-2414	JEFF BEVIRT
FIBER OPTIC	WINDSTREAM COMMUNICATIONS	217-876-7194	MARK MILLS

COMMITMENTS

NONE AT THIS TIME.



HORIZONTAL CONTROL TIE POINT
N.T.S.

COORDINATE TABLE - MSR

STATION / DESCRIPTION	NORTHING	EASTING
☉ STA. 919+83.00	709276.60	2353521.93
☉ STA. 925+72.35	709279.42	2354111.27

COORDINATE TABLE - OCR

STATION / DESCRIPTION	NORTHING	EASTING
☉ STA. 78+00.00	709139.23	2353820.09
P.I. STA. 79+38.80	709278.03	2353819.46
☉ STA. 82+33.75	709572.98	2353819.84

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	2,164
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
20800150	TRENCH BACKFILL	CU YD	288
25000200	SEEDING, CLASS 2	ACRE	0.25
25100115	MULCH, METHOD 2	ACRE	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25
28000500	INLET AND PIPE PROTECTION	EACH	8
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	4,765
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	8,126
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,625
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,213
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	404
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	2,813
42400800	DETECTABLE WARNINGS	SQ FT	320
44000100	PAVEMENT REMOVAL	SQ YD	468
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	1,821
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	237
50105220	PIPE CULVERT REMOVAL	FOOT	139
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	154
550A2330	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	FOOT	638
550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	48
550A2360	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24"	FOOT	141
X1009222	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 EQUIVALENT ROUND SIZE 24"	FOOT	71
550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	109
550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	61
550A2560	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 24"	FOOT	78
X1009223	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 EQUIVALENT ROUND SIZE 24"	FOOT	71
60218500	MANHOLES, TYPE A-4' DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1
60223800	MANHOLES, TYPE A-6' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
60223810	MANHOLES, TYPE A-6' DIAMETER, TYPE 3 FRAME AND GRATE	EACH	2
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	3
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	1
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,738
60606200	COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12 (MODIFIED)	FOOT	151
X1000077	COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.12 (MODIFIED)	FOOT	258

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

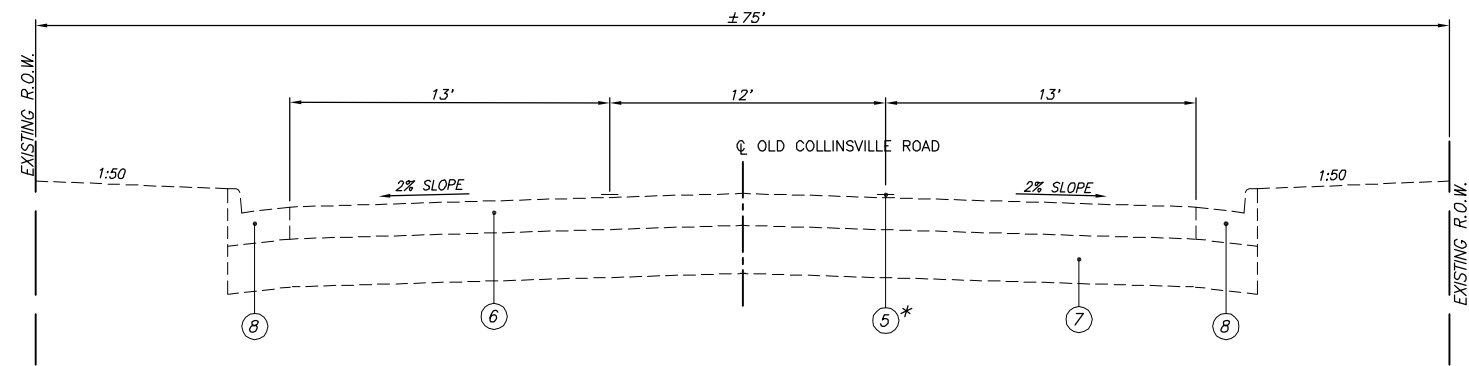
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
60618300	CONCRETE MEDIAN SURFACE 4 INCH	SQ FT	1,076
60626500	TRANSITIONAL COMBINATION CONCRETE CURB AND GUTTER	FOOT	420
67100100	MOBILIZATION	L SUM	1
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	91
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3,367
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	363
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	320
* 72000100	SIGN PANEL-TYPE 1	SQ FT	266
* 72000200	SIGN PANEL-TYPE 2	SQ FT	20
* 72000300	SIGN PANEL-TYPE 3	SQ FT	48
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	38
* 72900100	METAL POST-TYPE A	FOOT	94
* 72900200	METAL POST-TYPE B	FOOT	303
* 73000100	WOOD SIGN SUPPORT	FOOT	154
* 73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	4
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	91
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,367
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	363
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	320
* 78200020	CURB REFLECTORS	EACH	60
LR420029	PORTLAND CEMENT CONCRETE PAVEMENT 8" (SPECIAL)	SQ YD	352
XX005431	LOCATING UNDERGROUND UTILITY	EACH	10
X0325299	INLET MODIFICATION	EACH	1
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	485
X6024242	INLETS, SPECIAL, NO. 1	EACH	12
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	2,216
# 20076600	TRAINEES	HR	500
# 20076604	TRAINEES TRAINING PROGRAM GRADUATE	HR	500

* SPECIALTY ITEM

0042

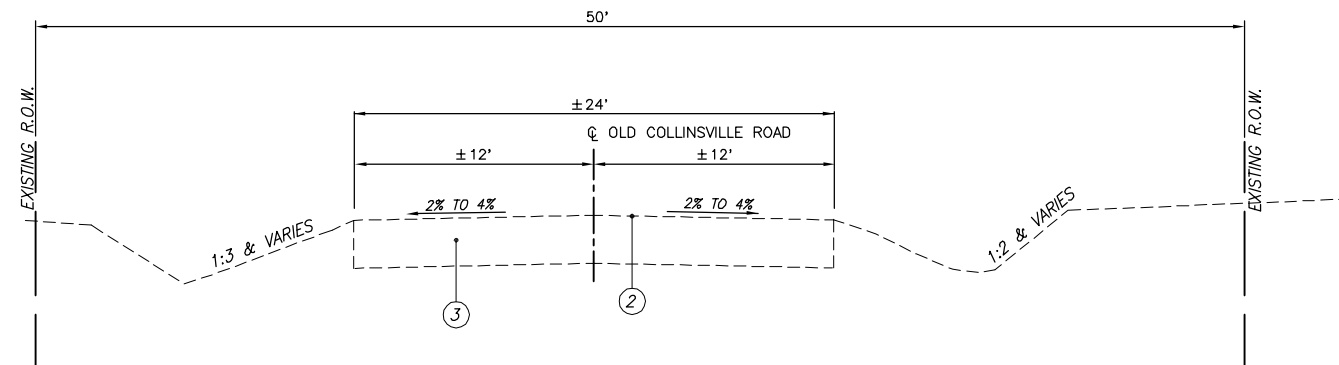
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	3
FEDERAL AID PROJECT		CONTRACT 97651		

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	4
FEDERAL AID PROJECT		CONTRACT 97651		



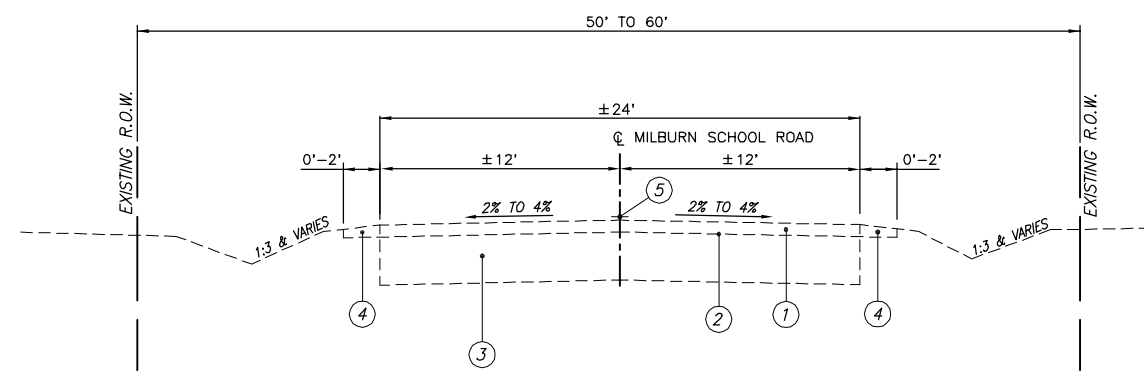
EXISTING TYPICAL SECTION

N.T.S.
 OLD COLLINSVILLE ROAD (SOUTH)
 STA. 78+00.00 TO STA. 79+10.93
 *SEE PLAN SHEETS



EXISTING TYPICAL SECTION

N.T.S.
 OLD COLLINSVILLE ROAD (NORTH)
 STA. 79+91.15 TO STA. 82+33.75



EXISTING TYPICAL SECTION

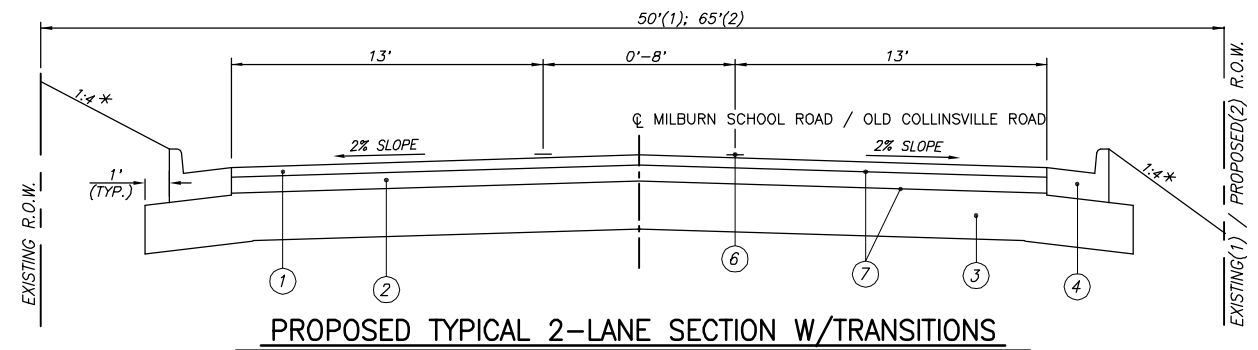
N.T.S.
 MILBURN SCHOOL ROAD
 STA. 919+83.00 TO STA. 925+72.35

LEGEND

- ① EXISTING HOT-MIX ASPHALT RESURFACING, ±3"
- ② EXISTING OIL & CHIP PAVEMENT
- ③ EXISTING AGGREGATE BASE, ±12"
- ④ EXISTING AGGREGATE WEDGE
- ⑤ EXISTING PAVEMENT MARKINGS
- ⑥ EXISTING HOT-MIX ASPHALT PAVEMENT, 8"
- ⑦ EXISTING LIME MODIFIED SOIL
- ⑧ EXISTING CONCRETE CURB & GUTTER, TYPE B-6.24

NOTE:
 ALL EXISTING ROADWAY ELEMENTS ARE TO BE REMOVED DURING RECONSTRUCTION.
 LIME MODIFIED SOIL TO REMAIN STA. 78+00 TO STA. 78+50.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	5
FEDERAL AID PROJECT			CONTRACT 97651	



PROPOSED TYPICAL 2-LANE SECTION W/TRANSITIONS

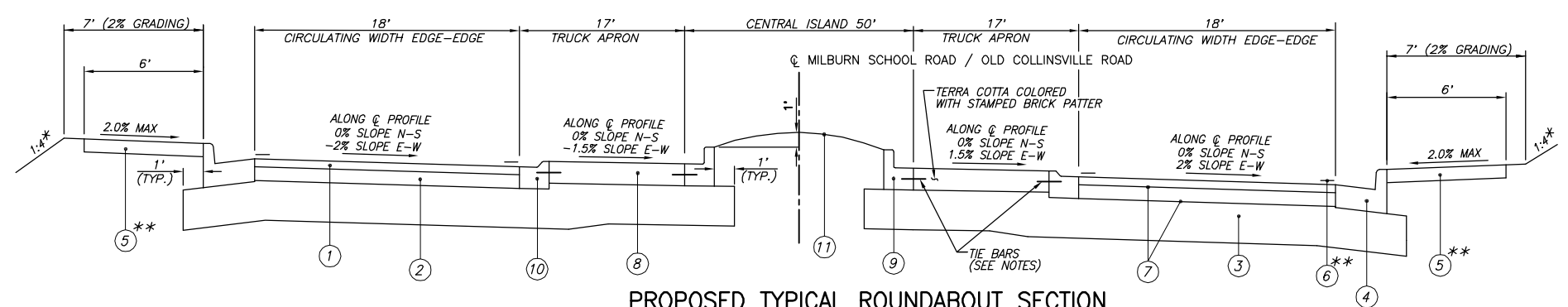
N.T.S.
 (1)MILBURN SCHOOL ROAD (WEST) / (2)OLD COLLINSVILLE ROAD (NORTH)
 (1) STA. 919+83.00 TO STA. 921+70.54
 (2) STA. 80+48.80 TO STA. 82+33.75
 * - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES

PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2027
 PV= 5,880 SU= 90 MU= 30
 ROAD/STREET CLASSIFICATION: URBAN COLLECTOR CLASS ROAD: II
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P= 50 S= 50 M= 50
 TRAFFIC FACTOR: Actual TF= 0.23 Minimum TF= N/A
 PG GRADE: Binder= 64-22 Surface= 64-22
 THICKNESS - 6 1/2" (Use 8" to match adjacent section)
 SUBGRADE SUPPORT RATING: POOR

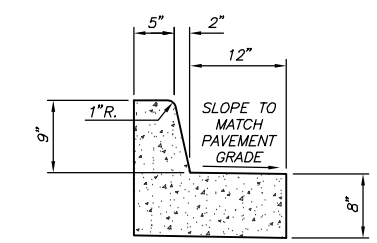
LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- ② HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6"
- ③ SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
- ④ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑤ P.C.C. SIDEWALK, 4"
- ⑥ THERMOPLASTIC PAVEMENT MARKING
- ⑦ BITUMINOUS MATERIALS (PRIME COAT)
- ⑧ PCC PAVEMENT 8" (SPECIAL)
- ⑨ COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.12 (MODIFIED)
- ⑩ COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.12 (MODIFIED)
- ⑪ TURF CENTRAL ISLAND



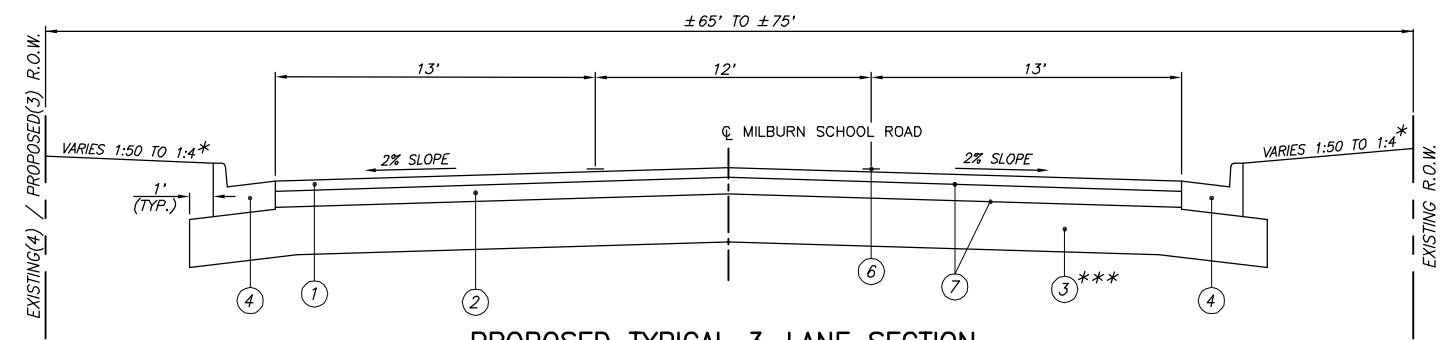
PROPOSED TYPICAL ROUNDABOUT SECTION

N.T.S.
 MILBURN SCHOOL ROAD / OLD COLLINSVILLE ROAD
 * - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES
 ** - SEE PLAN SHEET FOR LOCATIONS
 NOTES: 1) SPLITTER ISLAND DETAILS AND VARIABLE LANE WIDTHS AT THE ROUNDABOUT APPROACHES ARE SHOWN IN THE INTERSECTION GEOMETRIC DETAILS.
 2) B-9.12 AND M-2.12 GUTTER SLOPES TO MATCH PAVEMENT GRADE.
 3) TIE BARS IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT AS SHOWN ON STANDARD 420001. COST OF TIE BARS INCLUDED IN THE COST OF PCC PAVEMENT.



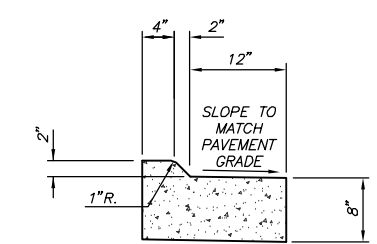
**COMBINATION CONCRETE CURB AND GUTTER
TYPE B-9.12, MODIFIED**

N.T.S.



PROPOSED TYPICAL 3-LANE SECTION

N.T.S.
 (3)MILBURN SCHOOL ROAD (EAST) / (4)OLD COLLINSVILLE ROAD (SOUTH)
 (3) STA. 923+90.54 TO STA. 925+72.35
 (4) STA. 78+00.00 TO STA. 78+28.80
 * - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES
 *** - NO SUB-BASE MODIFICATION REQUIRED FOR OCR (SOUTH) SECTION STA. 78+00 TO STA. 78+50±



**COMBINATION CONCRETE CURB AND GUTTER
TYPE M-2.12, (MODIFIED)**

N.T.S.

PCC SIDEWALK SCHEDULE

LOCATION	P.C.C. SIDEWALK, 4"	DETECTABLE WARNINGS
	SQ FT	SQ FT
STA. 921+79 LT. TO 80+39 LT. (N.W. QUADRANT)	710	————
STA. 921+80 RT. TO 78+38 LT. (S.W. QUADRANT)	704	————
STA. 921+91 LT.	————	20
STA. 921+91 RT.	————	20
STA. 921+96 LT. (SPLITTER ISLAND)	————	20
STA. 921+96 RT. (SPLITTER ISLAND)	————	20
STA. 78+55 LT. (SPLITTER ISLAND)	————	20
STA. 78+55 RT. (SPLITTER ISLAND)	————	20
STA. 78+59 LT.	————	20
STA. 80+27 LT.	————	20
STA. 78+39 RT. TO 923+81 RT. (S.E. QUADRANT)	702	————
STA. 78+50 RT.	————	20
STA. 923+65 LT. (SPLITTER ISLAND)	————	20
STA. 923+65 RT. (SPLITTER ISLAND)	————	20
STA. 923+70 RT.	————	20
STA. 923+81 LT. TO 80+40 RT. (N.E. QUADRANT)	697	————
STA. 923+70 LT.	————	20
STA. 80+23 LT. (SPLITTER ISLAND)	————	20
STA. 80+23 RT. (SPLITTER ISLAND)	————	20
STA. 80+27 RT.	————	20
TOTAL	2,813	320

MEDIAN SCHEDULE

LOCATION	CONCRETE MEDIAN SURFACE, 4"	CURB REFLECTORS ONE-WAY CRYSTAL	TRANSITIONAL COMB. CONCRETE C&G
	SQ FT	EACH	FOOT
MILBURN SCHOOL ROAD			
STA. 921+70.54 TO 922+20.54	321	15	99
STA. 923+40.54 TO 923+90.54	217	15	111
OLD COLLINSVILLE ROAD			
STA. 78+28.80 TO 78+78.80	321	15	111
STA. 79+98.80 TO 80+48.80	217	15	99
TOTAL	1,076	60	420

PAVEMENT MARKING SCHEDULE

LOCATION	THERMOPLASTIC PAVEMENT MARKINGS										
	LINE 4"				LINE 12"		LINE 24"			LETTERS & SYMBOLS	
	SOLID WHITE 4" LANE LINE	SOLID YELLOW 4" LANE LINE	YELLOW SKIP DASH 4" LANE LINE	SOLID DOUBLE YELLOW 4" LANE LINE	WHITE SKIP DASH 12" LANE LINE	SOLID YELLOW 12" DIAGONAL LINE	SOLID WHITE 24" BAR	SOLID WHITE TURN ARROW	SOLID WHITE TRIANGLES		
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.	SQ. FT.		
MSR – WEST LEG											
STA. 919+83.00 TO 921+70.00 LT./RT.				642							
STA. 921+70.00 TO 921+90.00 LT./RT.		40									
STA. 920+68.00 TO 922+20.00 LT./RT.						42					
STA. 921+90.00 TO 922+00.00 LT./RT.						80					
STA. 922+00.00 TO 922+22.00 LT.		22									
STA. 922+16.00 RT.									15		
STA. 922+22.00 LT./RT.	23										
STA. 922+22.00 TO 922+35.00 RT.					15						
MSR – EAST LEG											
STA. 923+25.00 TO 923+39.00 LT.					15						
STA. 923+39.00 TO 923+61.00 RT.		22									
STA. 923+39.00 LT./RT.	23										
STA. 923+45.00 LT.									15		
STA. 923+61.00 TO 923+71.00 LT./RT.						80					
STA. 923+71.00 TO 923+91.00 LT./RT.		40									
STA. 923+91.00 TO 925+73.04 LT./RT.				730							
STA. 923+45.00 TO 925+25.00 LT./RT.						110					
STA. 925+73.04 TO 927+58.00 LT./RT.			80	370				31.2			
OCR – SOUTH LEG											
STA. 76+86.00 TO 78+29.00 LT./RT.				572							
STA. 76+98.00 TO 78+76.00 LT./RT.						110					
STA. 78+29.00 TO 78+49.00 LT./RT.		40									
STA. 78+49.00 TO 78+59.00 LT./RT.						80					
STA. 78+59.00 TO 78+80.00 LT.		21									
STA. 78+75.00 RT.									15		
STA. 78+80.00 LT./RT.	22										
STA. 78+80.00 TO 78+95.00 RT.					15						
OCR – NORTH LEG											
STA. 79+84.00 TO 79+97.00 LT.					15						
STA. 79+97.00 TO LT./RT.	23										
STA. 79+97.00 TO 80+18.00 RT.		21									
STA. 80+03.00 LT.									15		
STA. 80+18.00 TO 80+28.00 LT./RT.						80					
STA. 80+28.00 TO 80+48.00 LT./RT.		40									
STA. 80+48.00 TO 82+34.00 LT./RT.				636							
STA. 79+98.00 TO 81+53.00 LT./RT.						41					
SUBTOTAL	91	246	80	2,950	60	303	320	31.2	60		
TOTAL		3,367			363	320		91.2			

MISCELLANEOUS REMOVAL SCHEDULE

LOCATION	PAVEMENT REMOVAL	HMA SURFACE REMOVAL, 3"	COMBINATION CURB AND GUTTER REMOVAL	PIPE CULVERT REMOVAL	TRENCH BACKFILL
	SQ. YD.	SQ YD	FOOT	FOOT	CU YD
OLD COLLINSVILLE ROAD					
STA. 78+00 TO 79+11, LT. & C	468	————	111	————	————
STA. 78+00 TO 79+21, RT.	————	————	126	————	————
STA. 79+15, LT./RT.	————	————	————	61	9.0
STA. 79+48 TO 79+90, C	————	157	————	————	————
STA. 79+55, LT./RT.	————	————	————	57	8.4
STA. 79+56 TO 79+61, LT.	————	————	————	8	1.2
STA. 79+57 TO 79+64, RT.	————	————	————	13	1.9
MILBURN SCHOOL ROAD					
STA. 919+83 TO 925+73, C	————	1,664	————	————	————
TOTAL	468	1,821	237	139	20.5

CURB AND GUTTER SCHEDULE

LOCATION	C & G TYPE B6.24	C & G TYPE B9.12 (MODIFIED)	C & G TYPE M2.12 (MODIFIED)
	FOOT	FOOT	FOOT
N.W. QUADRANT			
STA. 919+83.00 LT. TO 82+33.75 LT.	516		
S.W. QUADRANT			
STA. 919+83.00 RT. TO 78+00.00 LT.	359		
S.E. QUADRANT			
STA. 78+00.00 RT. TO 925+73.00 RT.	354		
N.E. QUADRANT			
STA. 82+33.75 RT. TO 925+73.00 LT.	509		
MILBURN SCHOOL ROAD			
STA. 922+38.53 LT./RT. TO 923+22.53 LT./RT.			258
STA. 922+55.53 LT./RT. TO 923+05.53 LT./RT.		151	
TOTAL	1,738	151	258

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	6
FEDERAL AID PROJECT			CONTRACT 97651	

SIGN SCHEDULE

LOCATION	LT/RT	PROPOSED OFFSET (FOOT)	SIGN PANEL- TYPE 1 (SQ. FT.)	SIGN PANEL- TYPE 2 (SQ. FT.)	SIGN PANEL- TYPE 3 (SQ. FT.)	METAL POST- TYPE A (FOOT)	METAL POST- TYPE B (FOOT)	WOOD SIGN SUPPORT (FOOT)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	BASE FOR TELESCOPING STEEL SIGN SUPPORT (EACH)	DESCRIPTION
MILBURN SCHOOL ROAD											
STA 913+08.00	RT	17.0	6.25/2.25				13.5				W2-6 (3030)/W13-1 (1818)
STA 916+08.00	RT	16.0*			24.00			14.5/15.5			D1-5 (7248)
STA 919+08.00	RT	17.0	6.25			12.5					W3-2 (3030)
STA 920+10.00	RT	19.0	6.25/2.00				15.5				W11-2 (3030)/W16-9P (2412)
STA 921+77.00	LT	1.0	5.00						9.5	1	R4-7 (2430)
STA 921+84.00	RT	30.0	6.25/2.00				15.5				W11-2 (3030)/W16-7P (2412)
STA 921+96.00	LT	35.5	6.25/2.00				15.5				W11-2 (3030)/W16-7P (2412)
STA 922+08.00	RT	37.5	6.25/4.50				14.5				R5-1 (3030)/R1-2 (363636)
STA 922+15.00	LT	1.0	7.50					15			D1-1d (3036)
STA 922+61.00	RT	9.0	3.00			10.0					R6-1R (3612)
STA 922+71.70	LT	19.5	3.00			10.0					R6-1R (3612)
STA 922+89.00	RT	19.7	3.00			10.0					R6-1R (3612)
STA 923+00.00	LT	8.5	3.00			10.0					R6-1R (3612)
STA 923+46.00	RT	1.0	7.50					15			D1-1d (3036)
STA 923+51.00	LT	39.0	6.25/4.50				14.5				R5-1 (3030)/R1-2 (363636)
STA 923+65.00	RT	36.0	6.25/2.00				15.5				W11-2 (3030)/W16-7P (2412)
STA 923+77.00	LT	33.5	6.25/2.00				15.5				W11-2 (3030)/W16-7P (2412)
STA 923+85.00	RT	1.0	5.00						9.5	1	R4-7 (2430)
STA 925+52.00	LT	26.0	6.25/2.00				15.5				W11-2 (3030)/W16-9P (2412)
STA 926+51.00	LT	26.0	6.25			15.0					W3-2 (3030)
STA 929+55.00	LT	23.5*			24.00			2@16.0			D1-5 (7248)
STA 932+51.00	LT	25.0	6.25/2.25				15.5				W2-6 (3030)/W13-1 (1818)
OLD COLLINSVILLE ROAD											
STA 69+66.00	RT	25.0	6.25/2.25				16.0				W2-6 (3030)/W13-1 (1818)
STA 72+66.00	RT	23.5*			20.00			2@16.0			D1-5 (6048)
STA 75+66.00	RT	25.0	6.25			13.5					W3-2 (3030)
STA 76+70.00	RT	25.0	6.25/2.00				15.5				W11-2 (3030)/W16-9P (2412)
STA 78+35.00	LT	1.0	5.00						9.5	1	R4-7 (2430)
STA 78+43.00	RT	33.0	6.25/2.00				15.5				W11-2 (3030)/W16-7P (2412)
STA 78+54.00	LT	36.5	6.25/2.00				15.5				W11-2 (3030)/W16-7P (2412)
STA 78+66.00	RT	37.5	6.25/4.50				14.5				R5-1 (3030)/R1-2 (363636)
STA 78+74.00	LT	1.0	9.00					15			D1-1d (3636)
STA 80+05.00	RT	1.0	9.00					15			D1-1d (3636)
STA 80+10.00	LT	38.0	6.25/4.50				14.5				R5-1 (3030)/R1-2 (363636)
STA 80+23.00	RT	35.5	6.25/2.00				15.5				W11-2 (3030)/W16-7P (2412)
STA 80+34.00	LT	32.0	6.25/2.00				15.5				W11-2 (3030)/W16-7P (2412)
STA 80+41.00	RT	1.0	5.00						9.5	1	R4-7 (2430)
STA 82+08.00	LT	19.0	6.25/2.00				15.5				W11-2 (3030)/W16-9P (2412)
STA 83+10.00	LT	16.0	6.25			13.0					W3-2 (3030)
STA 89+10.00	LT	16.0	6.25/2.25				14.0				W2-6 (3030)/W13-1 (1818)
TOTAL			266	20	48	94	303	154	38	4	

*NOTE: OFFSETS ARE TO POST LOCATION. WHERE TWO (2) POSTS ARE REQUIRED, OFFSET IS TO EDGE OF SIGN.

INLET AND PIPE PROTECTION SCHEDULE

LOCATION	INLET AND PIPE PROTECTION EACH
STA. 919+84, 20' LT.	1
STA. 919+84, 21' RT.	1
STA. 921+75, 30' RT.	1
STA. 922+04, 44' LT.	1
STA. 925+81, 23' LT.	1
STA. 925+81, 23' RT.	1
STA. 82+50, 17' LT.	1
STA. 82+50, 16' RT.	1
TOTAL	8

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	7
FEDERAL AID PROJECT		CONTRACT 97651		

SEEDING SCHEDULE

LOCATION	SEEDING CLASS 2	MULCH METHOD 2	TEMPORARY EROSION CONTROL SEEDING
	ACRE	ACRE	POUND
STA. 919+83.00 TO 925+73.04	0.25	0.25	25
TOTAL	0.25	0.25	25

PAVING SCHEDULE

LOCATION	SUB-BASE GRANULAR MATERIAL, TYPE A, 12"	HMA BINDER CRSE. IL-19.0, N70, 6"	BIT. MATERIALS (PRIME COAT)	BIT. MATERIALS (TACK COAT)	HMA SURFACE CRSE., MIX "D", N70, 2"	PCC PAVEMENT, 8" (SPECIAL)
	SQ YD	TON	POUND	POUND	TON	SQ YD
MILBURN SCHOOL ROAD						
STA. 919+83.00 TO 922+20.53 (WEST LEG)	1,096	278	1,866	373	93	-----
STA. 923+40.54 TO 925+73.04 (EAST LEG)	1,266	331	2,214	443	110	-----
OLD COLLINSVILLE ROAD						
STA. 78+50.00 TO 78+78.80 (SOUTH LEG)	236	113	756	151	37	-----
STA. 79+98.80 TO 82+34.00 (NORTH LEG)	1,086	276	1,850	370	92	-----
CIRCULATING LANE & TRUCK APRON						
	1,081	215	1,440	288	72	352
TOTAL	4,765	1,213	8,126	1,625	404	352

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
MILBURN SCHOOL ROAD				
STA. 919+83.00 TO 925+73.04	1,394	1,045	235	+810
OLD COLLINSVILLE ROAD				
STA. 78+00.00 TO 79+00.00	770	578	42	+536
STA. 80+00.00 TO 82+34.00				
TOTAL	2,164	1,623	277	+1,346

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	8
FEDERAL AID PROJECT			CONTRACT 97651	

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE				
PT	LOCATION STATION / OFFSET	DESCRIPTION	TOP	INVERTS
1.	919+84.00 19.79'L	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"		578.00 E
2.	919+84.45 21.12'R	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"		578.00 E
3.	920+05.43 19.20'R	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 580.50	577.44 W 576.71 N
4.	920+05.48 19.20'L	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 580.50	576.18 E 576.38 W 576.38 S
5.	921+54.00 23.15'R	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 578.20	574.98 N
6.	921+54.15 22.75'L	INLETS, SPECIAL, NO. 1, 1.5' OFFSET	(2) 578.18	574.78 W 574.58 E 574.78 S 577.53 N**
7.	922+06.24 29.32'L	MANHOLES, TYPE A, 6'-DIA., TYPE 3 FRAME & GRATE *	(1) 577.01	573.67 W 574.96 N 573.67 E
8.	922+80.54 18.93'L	MANHOLES, TYPE A, 6'-DIA., TYPE 1 FRAME & CLOSED LID*	(1) 577.10	569.93 E 572.43 W
9.	921+74.85 30.00'R	INLETS, SPECIAL, NO. 1, 2' OFFSET	578.39	575.22 W 577.39 S** 577.39 W**
10.	922+06.30 43.19'L	INLETS, SPECIAL, NO. 1, 2' OFFSET	577.92	575.05 S 576.92 W** 576.92 N**
11.	78+81.89 34.31'L	INLETS, TYPE A, TYPE 3 FRAME & GRATE	(1) 576.55	573.85 E
12.	78+94.26 42.07'R	INLETS, TYPE A, TYPE 3 FRAME & GRATE	(1) 575.34	573.14 W 573.14 NE
14.	923+55.04 28.39'L	MANHOLES, TYPE A, 6'-DIA., TYPE 3 FRAME & GRATE *	(1) 574.37	569.85 NW 567.77 E 567.00 W
15.	923+54.60 27.33'R	INLETS, TYPE B, TYPE 3 FRAME & GRATE	(1) 574.37	571.75 SW 571.75 E
16.	924+37.33 25.58'L	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 572.45	567.96 S 566.63 E 566.63 W
17.	924+37.40 25.58'R	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 572.45	569.10 W 568.90 N
18.	80+12.50 25.70'L	INLETS, TYPE A, TYPE 3 FRAME & GRATE	(1) 576.06	573.37 E
19.	80+12.50 27.36'R	MANHOLES, TYPE A, 4'-DIA., TYPE 3 FRAME & GRATE *	(1) 575.81	572.33 N 570.84 S 572.95 W
20.	81+14.94 21.87'L	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 576.97	574.42 E
21.	81+15.00 21.72'R	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 576.97	572.98 N 572.98 S 573.75 W
22.	82+13.94 19.25'L	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 577.50	574.18 E 574.08 N
23.	82+13.91 19.25'R	INLETS, SPECIAL, NO. 1, 2' OFFSET	(2) 577.50	573.65 W 573.55 S 573.75 N
24.	82+49.98 17.31'L	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"		575.50 S
25.	82+50.06 15.94'R	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"		575.00 S
26.	925+81.50 23.00'L	INLET MODIFICATION (6"x30" OPEN THROAT TO BE CUT IN BACK OF THE EXISTING INLET AT THE ELEVATION SPECIFIED)		565.95

NOTE: OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE.
PLEASE REFER TO MISCELLANEOUS DETAIL SHEET 23 FOR DIMENSIONS OF INLET SPECIAL, TYPE SPECIFIED.

(1) - GRATE AT CURB FLOWLINE
(2) - CURB (INCLUDES LID)
(*) - DENOTES FLAT SLAB TOP
(**) - DENOTES OPEN THROAT ELEVATION

STORM SEWER SCHEDULE									
PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL
1.	1.	4.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	15'	577.54	576.38	7.71%	0.0
2.	2.	3.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	15'	577.84	577.44	2.67%	0.0
3.	3.	4.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	36'	576.71	576.38	0.94%	4.5
4.	4.	6.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	146'	576.18	574.78	0.96%	0.0
5.	5.	6.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	43'	574.98	574.78	0.47%	5.5
6.	6.	7.	Storm Sewers, Rubber Gasket, Class A, Type 1	18"	48'	574.58	573.67	1.89%	10.8
7.	7.	8.	Storm Sewers, Rubber Gasket, Class A, Type 2	24" *	71'	573.67	572.43	1.77%	7.5
8.	8.	14.	Storm Sewers, Rubber Gasket, Class A, Type 1	24" *	71'	569.93	567.77	3.04%	58.5
9.	9.	5.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	19'	575.22	574.98	1.26%	0.0
10.	10.	7.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	9'	575.05	574.96	1.00%	1.5
11.	11.	12.	Storm Sewers, Rubber Gasket, Class A, Type 2	12"	75'	573.85	573.14	0.96%	52.3
12.	12.	15.	Storm Sewers, Rubber Gasket, Class A, Type 2	12"	34'	573.14	571.75	4.21%	4.7
14.	14.	16.	Storm Sewers, Rubber Gasket, Class A, Type 2	24"	78'	567.00	566.63	0.47%	27.2 **
15.	15.	17.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	79'	571.75	569.10	3.34%	3.3 **
16.	16.	26.	Storm Sewers, Rubber Gasket, Class A, Type 1	24"	141'	566.63	565.95	0.48%	39.1
17.	17.	16.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	48'	568.90	567.96	1.96%	16.7
18.	18.	19.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	51'	573.37	572.95	0.89%	3.9
19.	19.	14.	Storm Sewers, Rubber Gasket, Class A, Type 2	15"	61'	570.84	569.85	1.50%	22.4
20.	20.	21.	Storm Sewers, Rubber Gasket, Class A, Type 1	12"	41'	574.42	573.75	1.63%	1.0
21.	21.	19.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	99'	572.98	572.33	0.68%	6.2 **
22.	22.	23.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	35'	574.18	573.65	1.51%	2.8
23.	23.	21.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	96'	573.55	572.98	0.59%	0.0
24.	24.	22.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	30'	575.26	574.08	3.94%	0.0
25.	25.	23.	Storm Sewers, Rubber Gasket, Class A, Type 1	15"	30'	574.74	573.75	3.30%	0.0
								TOTAL	267.9

* ELLIPTICAL PIPE (24"Ø EQUIVALENT)
** TRENCH BACKFILL UNDER SIDEWALK ONLY

STORM SEWER SUMMARY

	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2
	12"	15"	18"	24"	24"	12"	15"	24"	24"	24"
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
TOTAL	154	638	48	141	71	109	61	78	71	

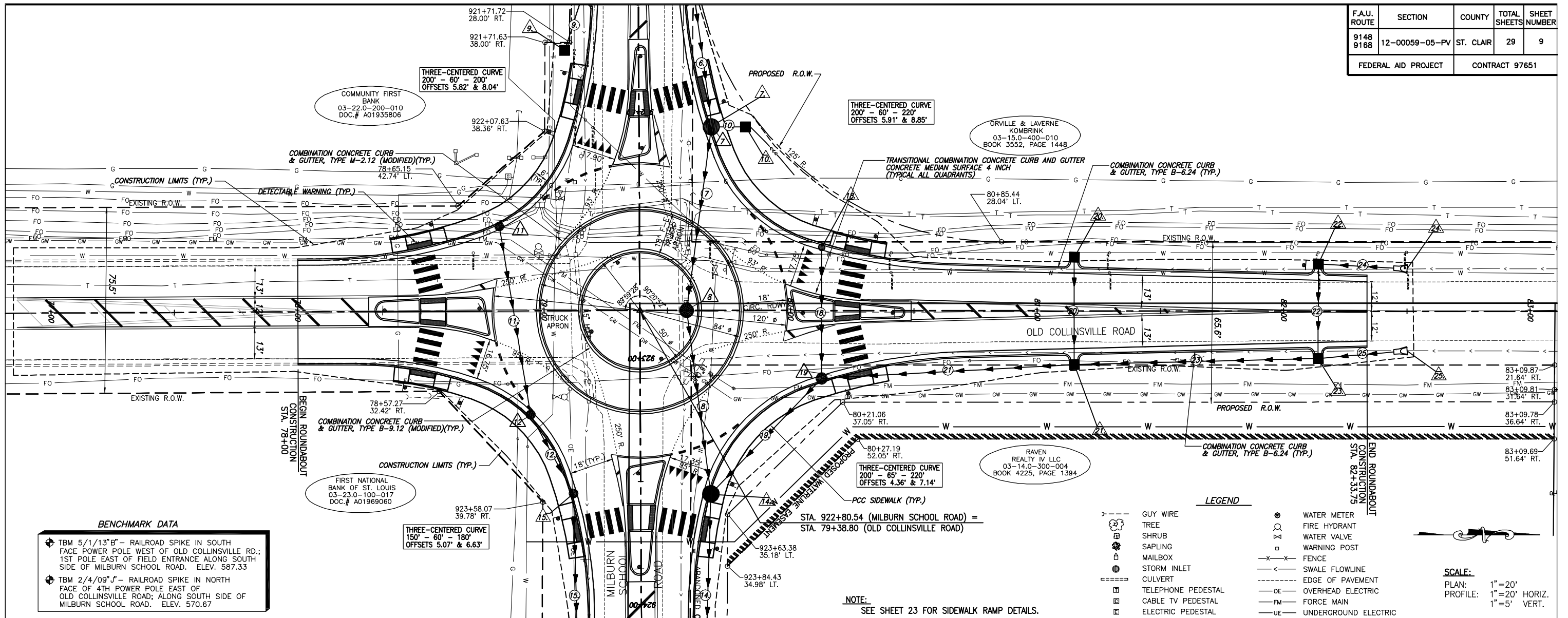
TRENCH BACKFILL SCHEDULE

LOCATION	TRENCH BACKFILL CU YD
STORM SEWER SCHEDULE	267.9
DRAINAGE REMOVAL SCHEDULE	20.5
TOTAL	288.4

DRAINAGE STRUCTURE SUMMARY

	INLET SPECIAL, NO. 1 (3'X3')	INLETS, TYPE A, TYPE 3 FRAME & GRATE	INLETS, TYPE B, TYPE 3 FRAME & GRATE	MANHOLES, TYPE A-4' DIA. TYPE 3 FRAME & GRATE	MANHOLES, TYPE A-6' DIA. TYPE 1 FRAME & LID	MANHOLES, TYPE A-6' DIA. TYPE 3 FRAME & GRATE	PRECAST REINFORCED CONCRETE FLARED END SECTION, 15"	INLET MODIFICATION
	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
TOTAL	12	3	1	1	1	2	4	1

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	9
FEDERAL AID PROJECT			CONTRACT 97651	



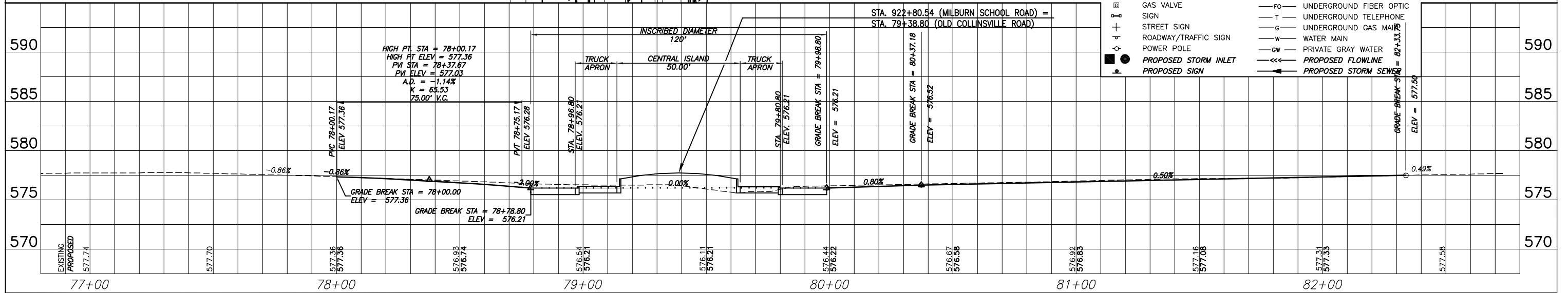
BENCHMARK DATA

- ⊕ TBM 5/1/13" B" - RAILROAD SPIKE IN SOUTH FACE POWER POLE WEST OF OLD COLLINSVILLE RD.; 1ST POLE EAST OF FIELD ENTRANCE ALONG SOUTH SIDE OF MILBURN SCHOOL ROAD. ELEV. 587.33
- ⊕ TBM 2/4/09" J" - RAILROAD SPIKE IN NORTH FACE OF 4TH POWER POLE EAST OF OLD COLLINSVILLE ROAD; ALONG SOUTH SIDE OF MILBURN SCHOOL ROAD. ELEV. 570.67

LEGEND

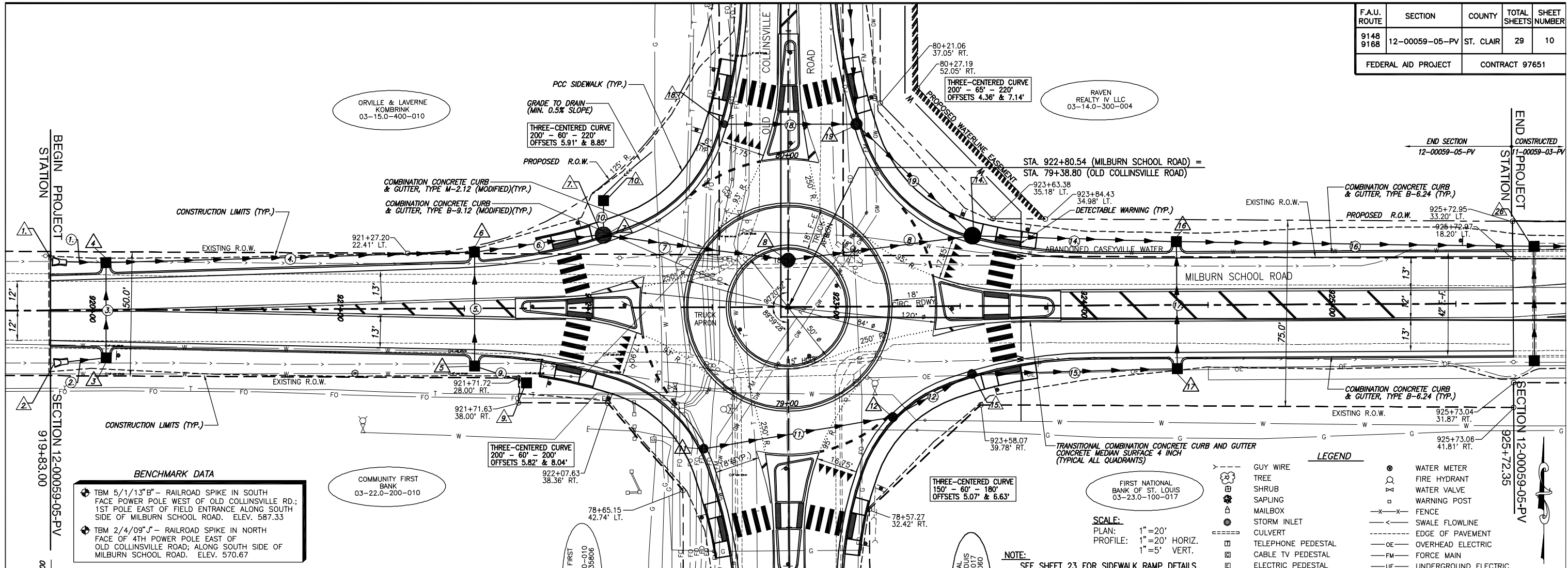
—	GUY WIRE	⊙	WATER METER
⊙	TREE	⊙	FIRE HYDRANT
⊙	SHRUB	⊙	WATER VALVE
⊙	SAPLING	⊙	WARNING POST
⊙	MAILBOX	— X —	FENCE
⊙	STORM INLET	—	SWALE FLOWLINE
⊙	CULVERT	---	EDGE OF PAVEMENT
⊙	TELEPHONE PEDESTAL	—	OVERHEAD ELECTRIC
⊙	CABLE TV PEDESTAL	—	FORCE MAIN
⊙	ELECTRIC PEDESTAL	—	UNDERGROUND ELECTRIC
⊙	GAS VALVE	—	UNDERGROUND FIBER OPTIC
⊙	SIGN	—	UNDERGROUND TELEPHONE
⊙	STREET SIGN	—	UNDERGROUND GAS MAIN
⊙	ROADWAY/TRAFFIC SIGN	—	WATER MAIN
⊙	POWER POLE	—	PRIVATE GRAY WATER
⊙	PROPOSED STORM INLET	—	PROPOSED FLOWLINE
⊙	PROPOSED SIGN	—	PROPOSED STORM SEWER

NOTE:
SEE SHEET 23 FOR SIDEWALK RAMP DETAILS.



ROADWAY PLAN AND PROFILE MSR-OCR ROUNDABOUT
ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	10
FEDERAL AID PROJECT		CONTRACT 97651		



BENCHMARK DATA

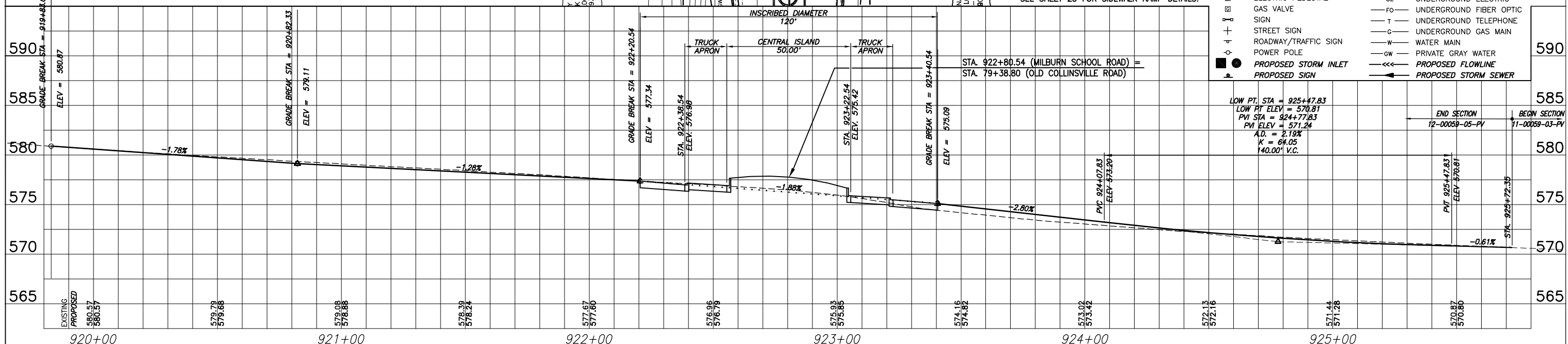
- ◆ TBM 5/1/13" B" - RAILROAD SPIKE IN SOUTH FACE POWER POLE WEST OF OLD COLLINSVILLE RD.; 1ST POLE EAST OF FIELD ENTRANCE ALONG SOUTH SIDE OF MILBURN SCHOOL ROAD. ELEV. 587.33
- ◆ TBM 2/4/09" J" - RAILROAD SPIKE IN NORTH FACE OF 4TH POWER POLE EAST OF OLD COLLINSVILLE ROAD; ALONG SOUTH SIDE OF MILBURN SCHOOL ROAD. ELEV. 570.67

COMMUNITY FIRST BANK
03-22.0-200-010

FIRST NATIONAL BANK OF ST. LOUIS
03-23.0-100-017

SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ.
1"=5' VERT.

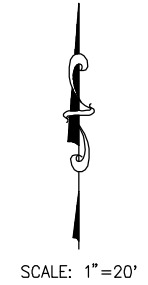
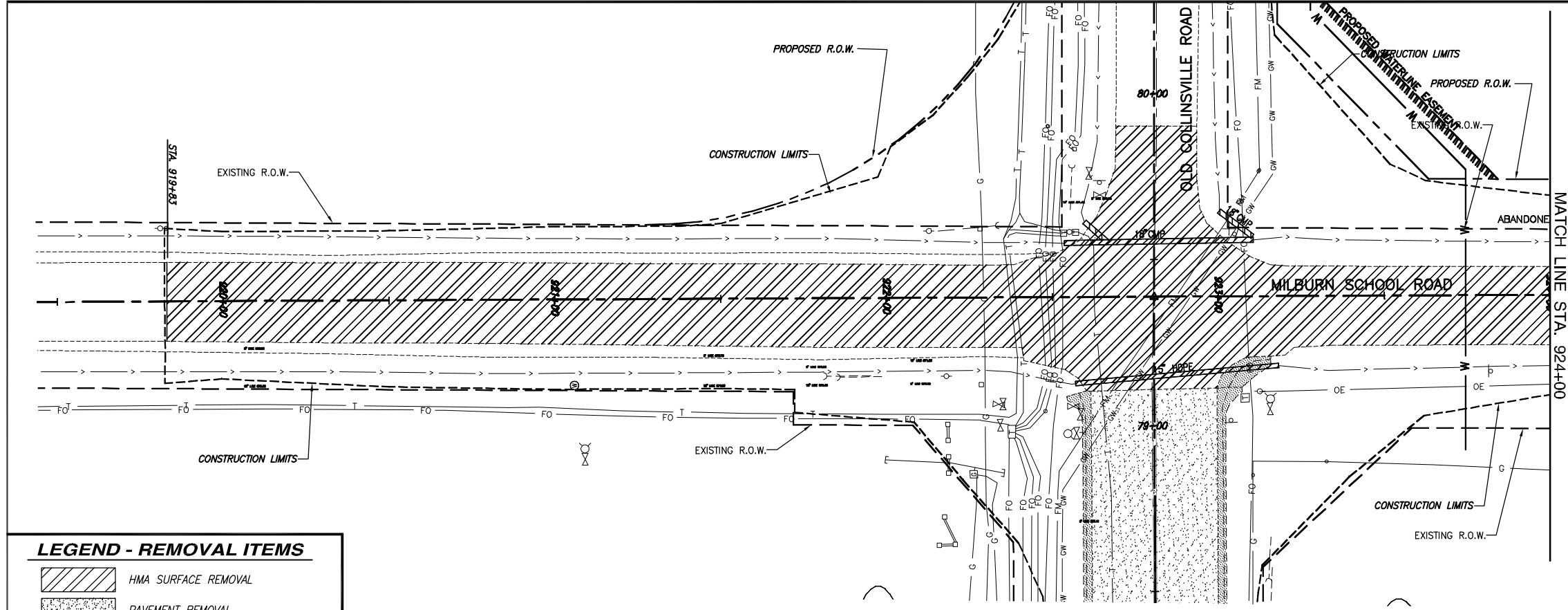
NOTE:
SEE SHEET 23 FOR SIDEWALK RAMP DETAILS.



LOW PT. STA = 925+47.83
LOW PT. ELEV = 570.81
PVI STA = 924+77.83
PVI ELEV = 571.24
A.D. = 2.19%
K = 64.05
140.00' V.C.

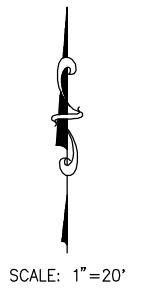
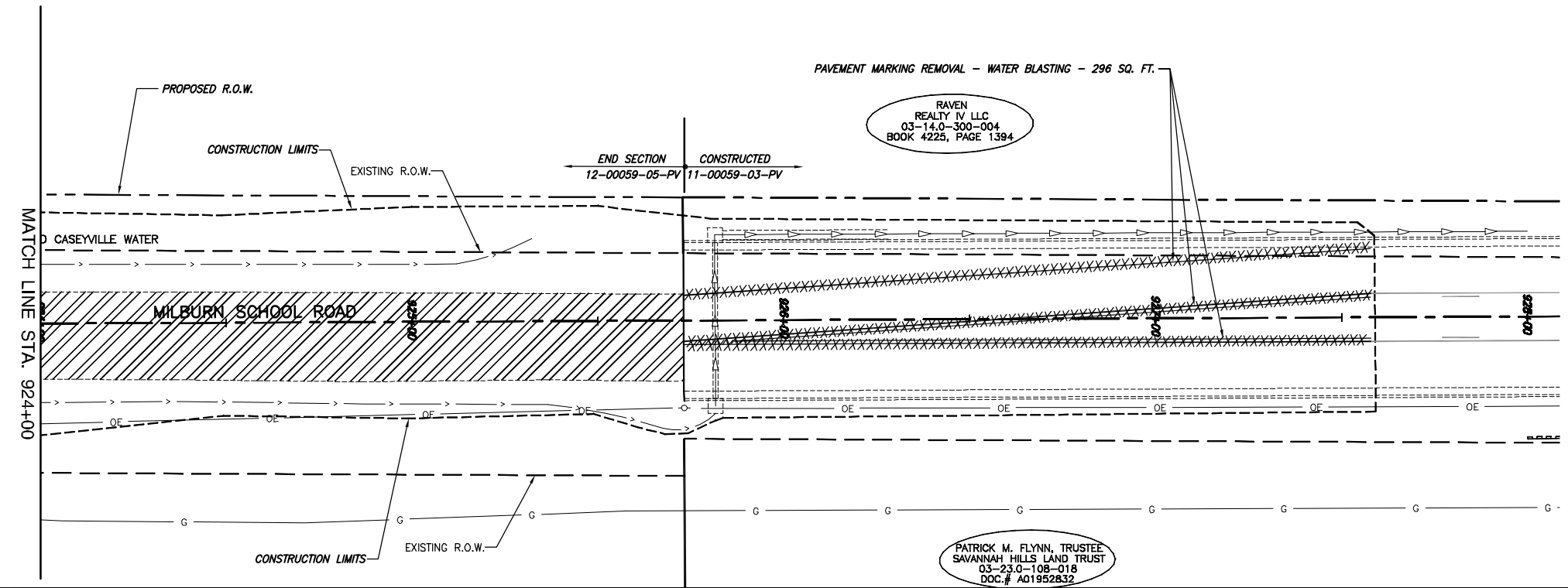
ROADWAY PLAN AND PROFILE MSR-OCR ROUNDABOUT
ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	11
FEDERAL AID PROJECT			CONTRACT 97651	

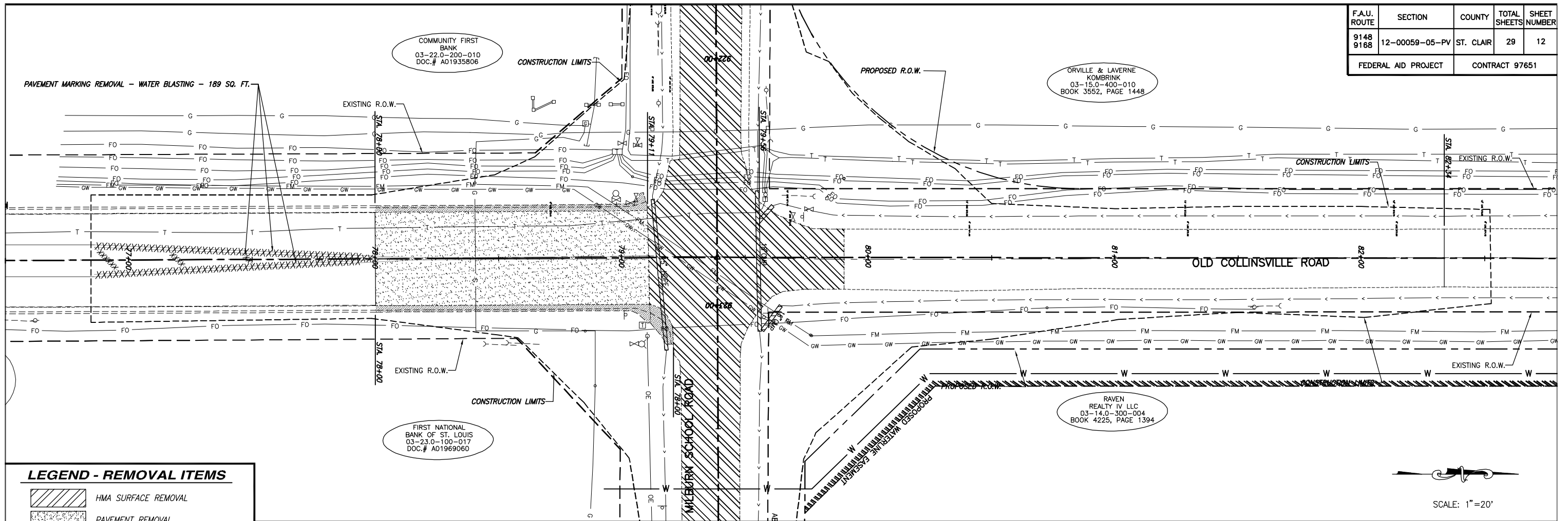


LEGEND - REMOVAL ITEMS

- HMA SURFACE REMOVAL
- PAVEMENT REMOVAL
- PIPE CULVERT REMOVAL
- CURB REMOVAL
- PAVEMENT MARKING REMOVAL

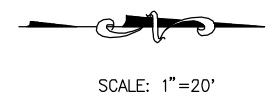


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	12
FEDERAL AID PROJECT			CONTRACT 97651	

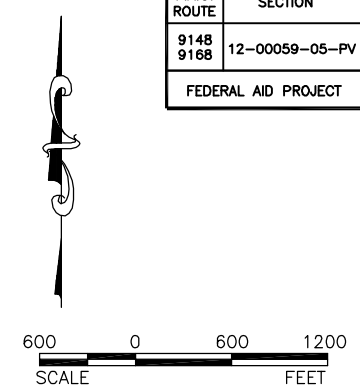


LEGEND - REMOVAL ITEMS

	HMA SURFACE REMOVAL
	PAVEMENT REMOVAL
	PIPE CULVERT REMOVAL
	CURB & GUTTER REMOVAL
	PAVEMENT MARKING REMOVAL



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	13
FEDERAL AID PROJECT			CONTRACT 97651	



MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION

GENERAL

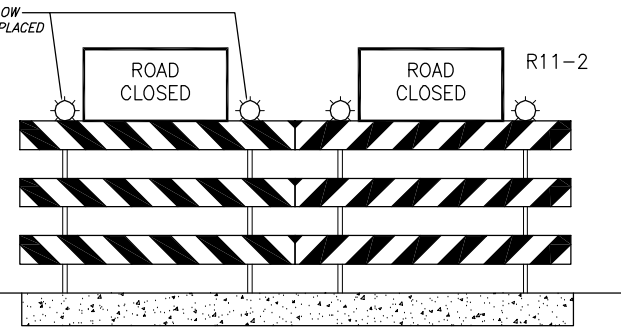
THE CONTRACTOR SHALL USE TYPE III BARRICADES WITH FLASHING LIGHTS AND SIGNS "ROAD CLOSED" (R11-2) AT ALL CLOSURE POINTS. "ROAD CONSTRUCTION AHEAD/ MILE" (W20-1(O)) AND "ROAD CLOSED AHEAD/ MILE" (W20-3(O)) WARNING SIGNS WITH FLASHING LIGHTS SHALL BE PLACED IN CONFORMANCE WITH STANDARD BLR 21-9 AND AS DIRECTED BY THE ENGINEER. INITIAL WARNING SIGNS ON ALL APPROACH ROADS SHALL HAVE FLASHING LIGHTS.

LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.

THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.

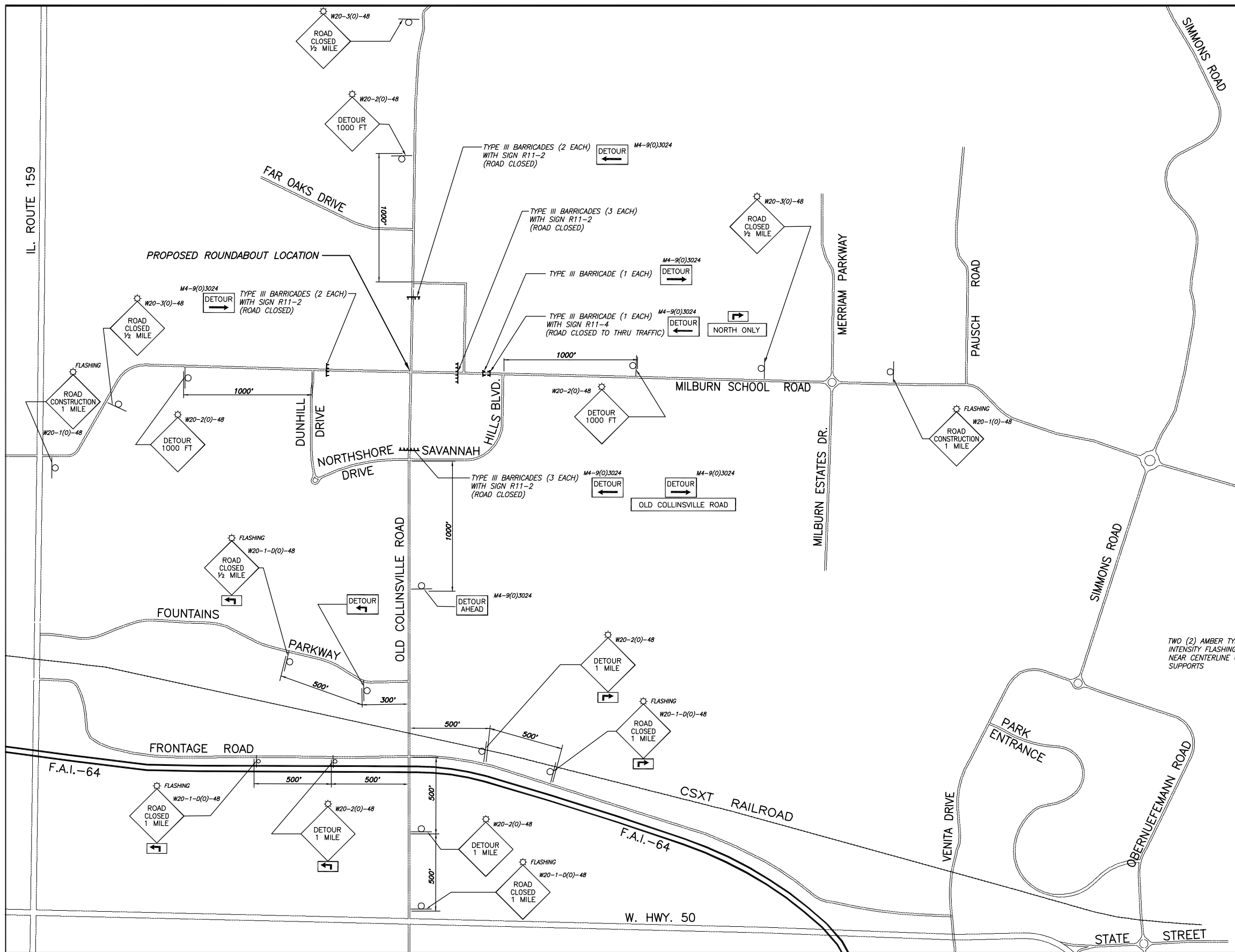


R11-4

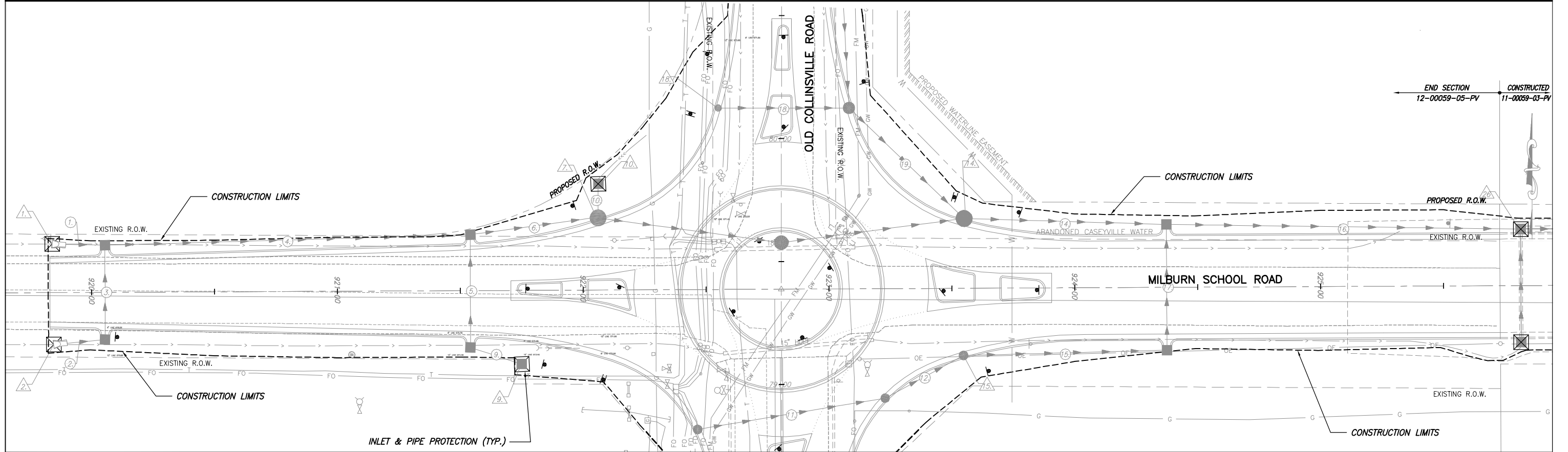
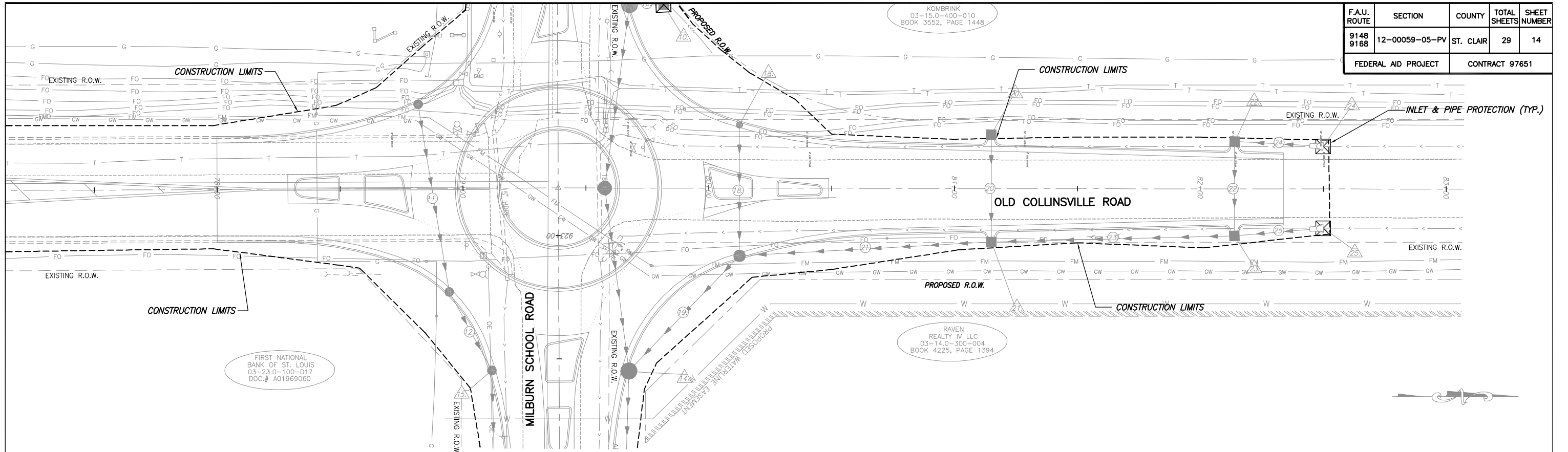


TYPE III BARRICADE (ROAD CLOSED)

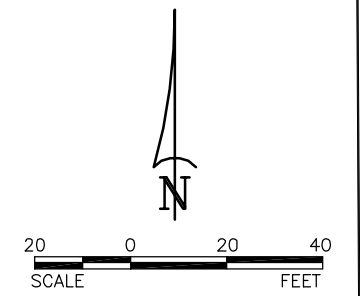
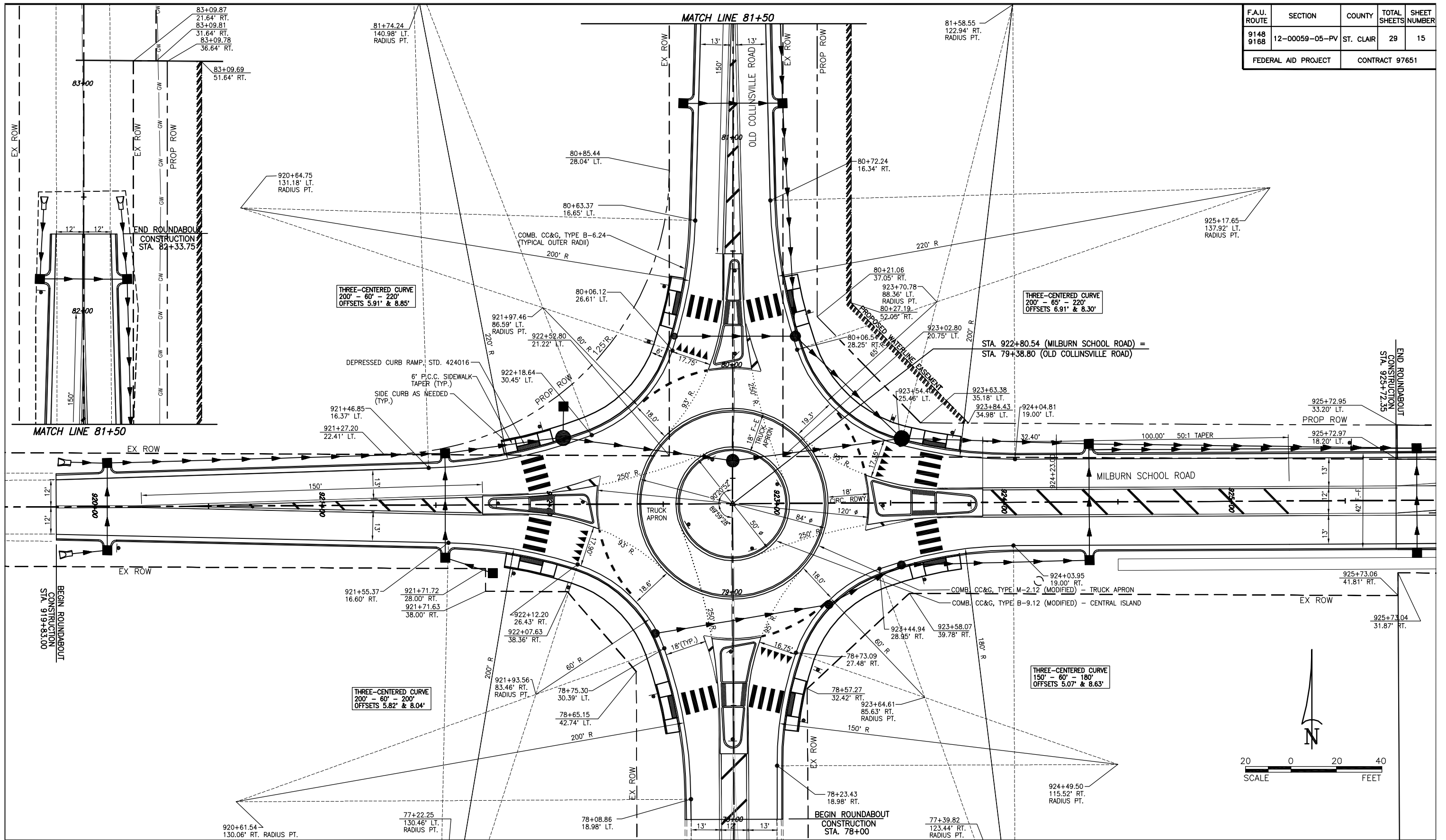
TYPE III BARRICADES WITH STANDARD SIGNS R11-2 & R11-4 MOUNTED AS SHOWN. PLACED AT THE LOCATIONS AS SHOWN.



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	14
FEDERAL AID PROJECT			CONTRACT 97651	

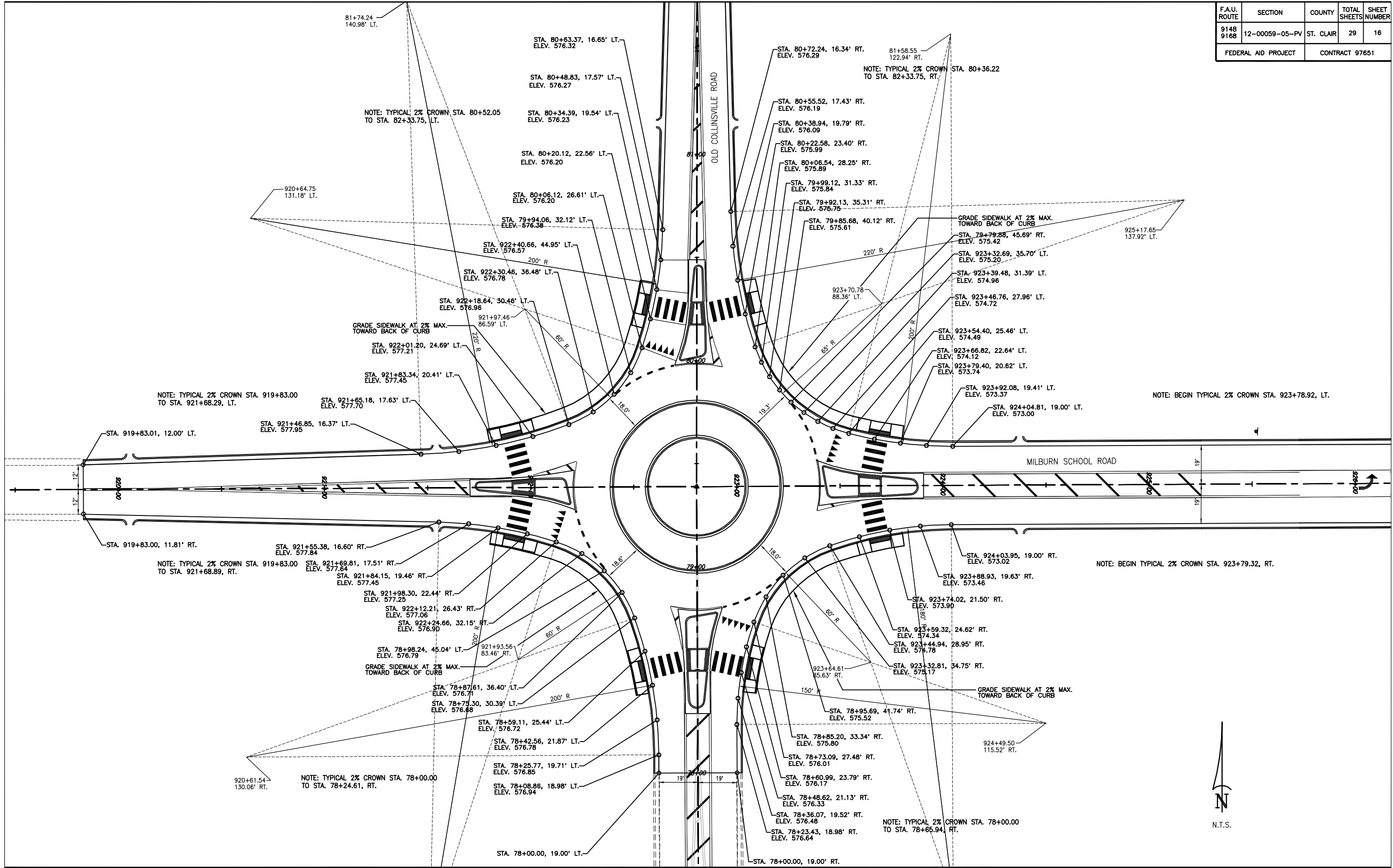


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	15
FEDERAL AID PROJECT			CONTRACT 97651	

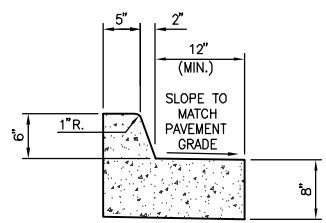


ROUNDABOUT DETAILS MSR-OCR ROUNDABOUT
ST. CLAIR COUNTY, ILLINOIS

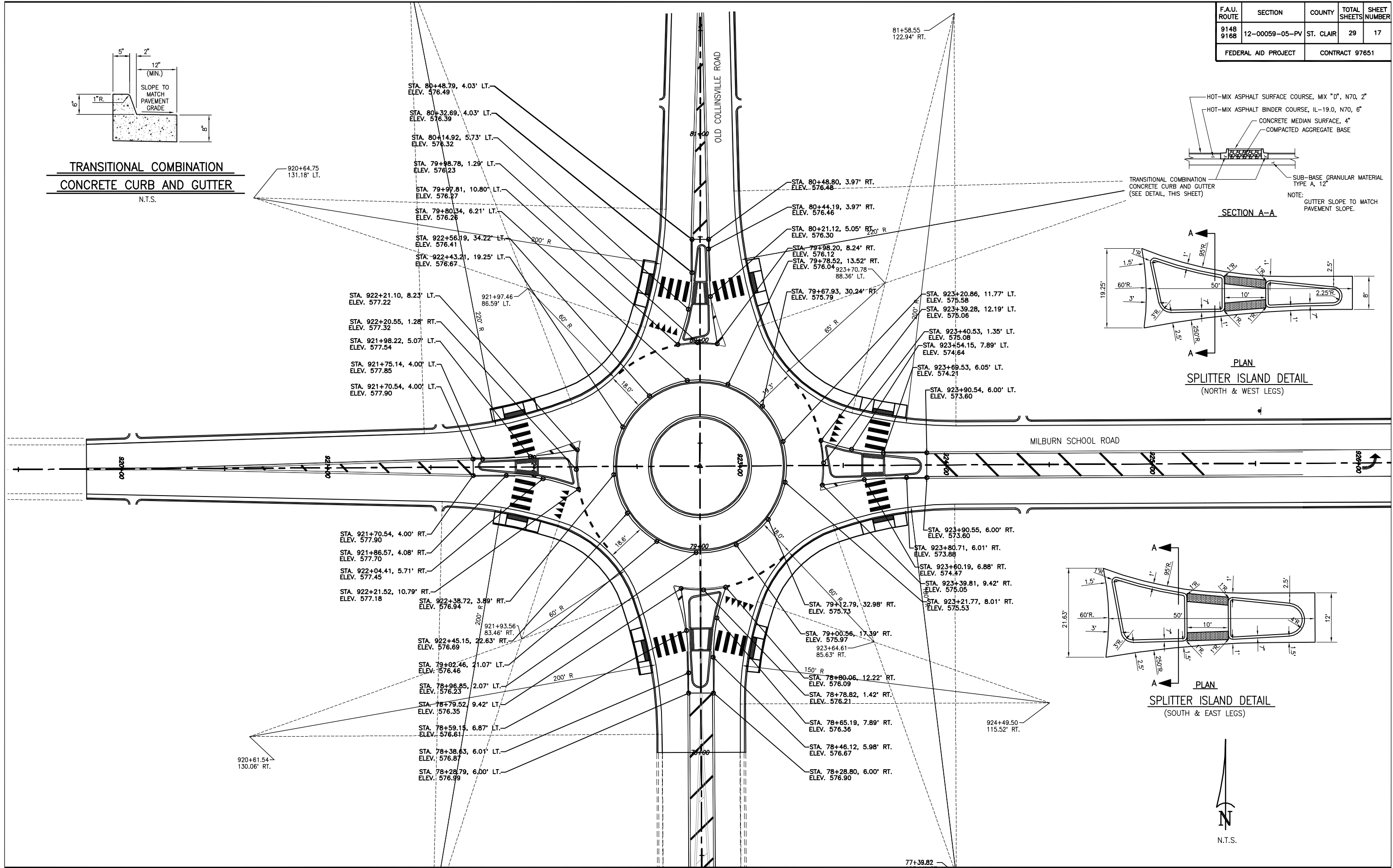
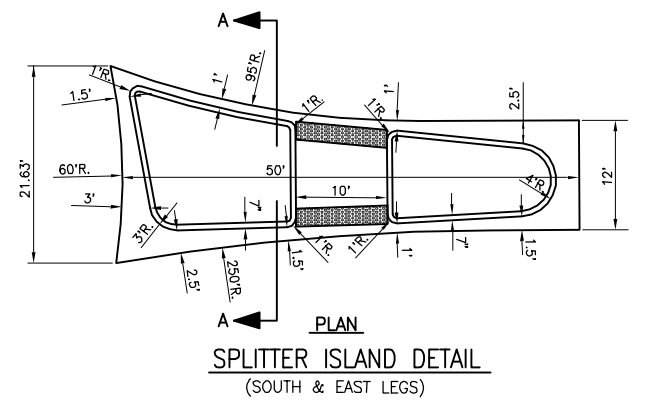
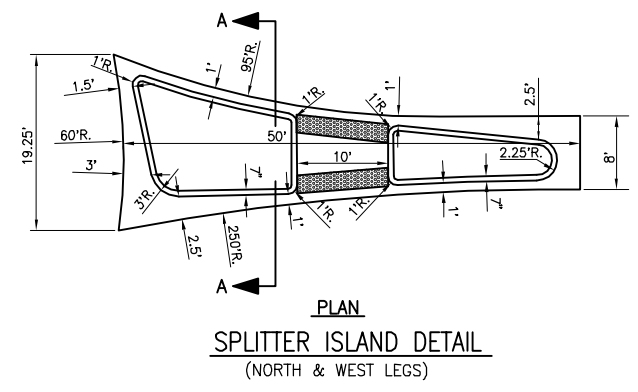
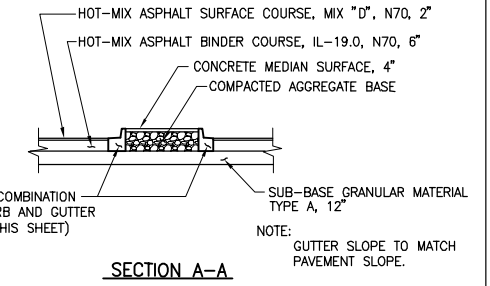
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	16
FEDERAL AID PROJECT			CONTRACT 97651	



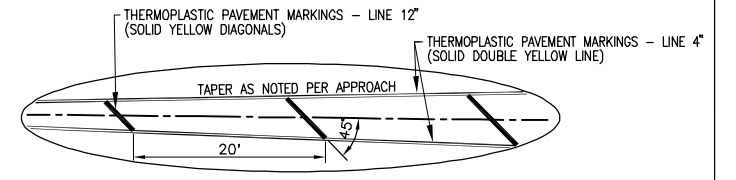
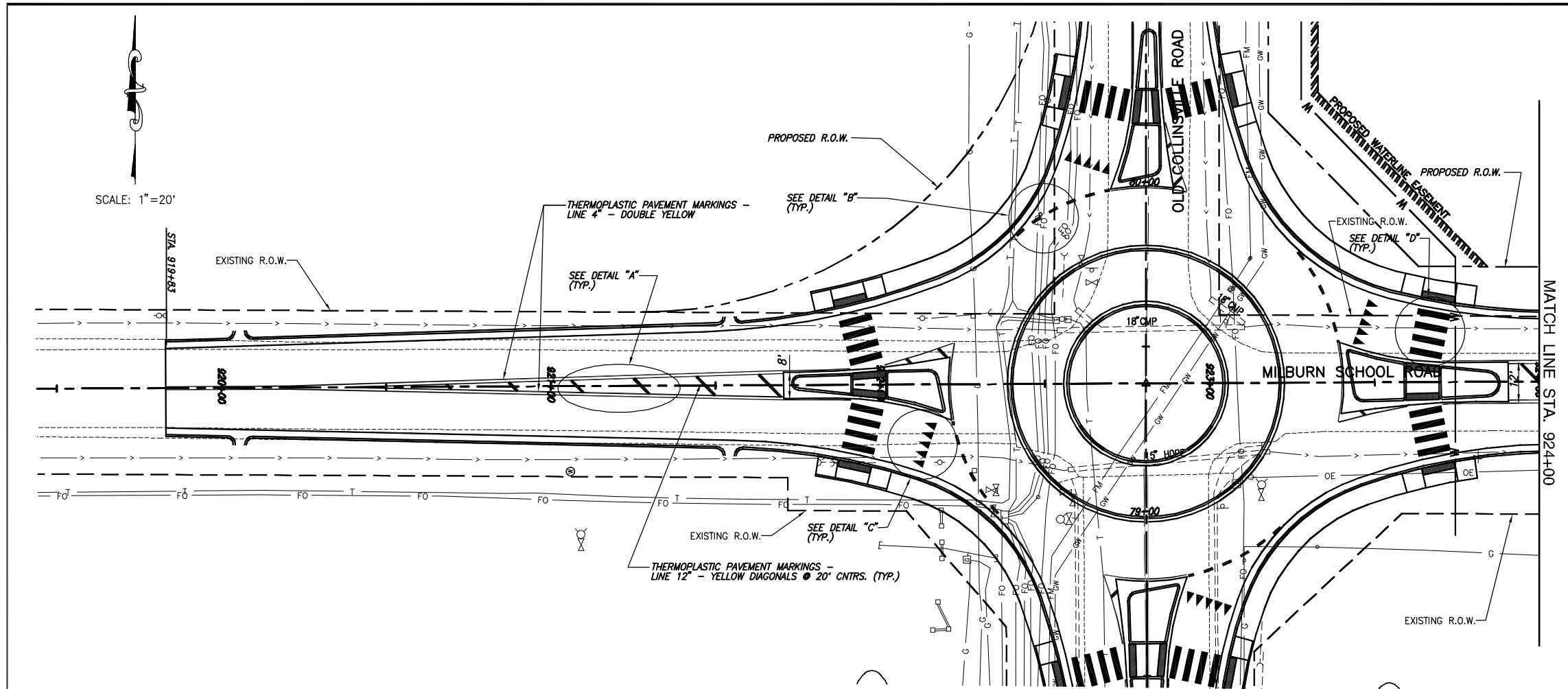
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	17
FEDERAL AID PROJECT			CONTRACT 97651	



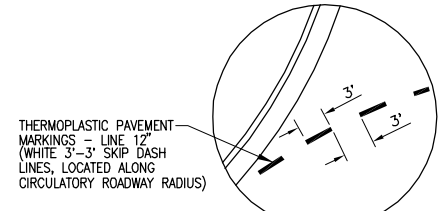
**TRANSITIONAL COMBINATION
CONCRETE CURB AND GUTTER**
N.T.S.



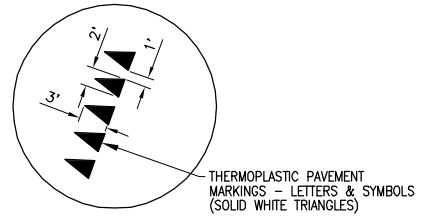
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	18
FEDERAL AID PROJECT			CONTRACT 97651	



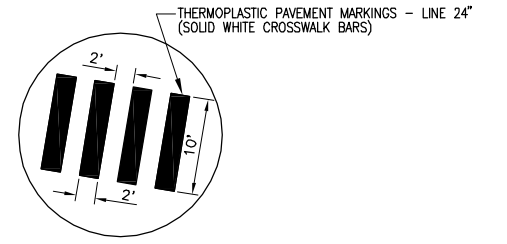
DETAIL "A"



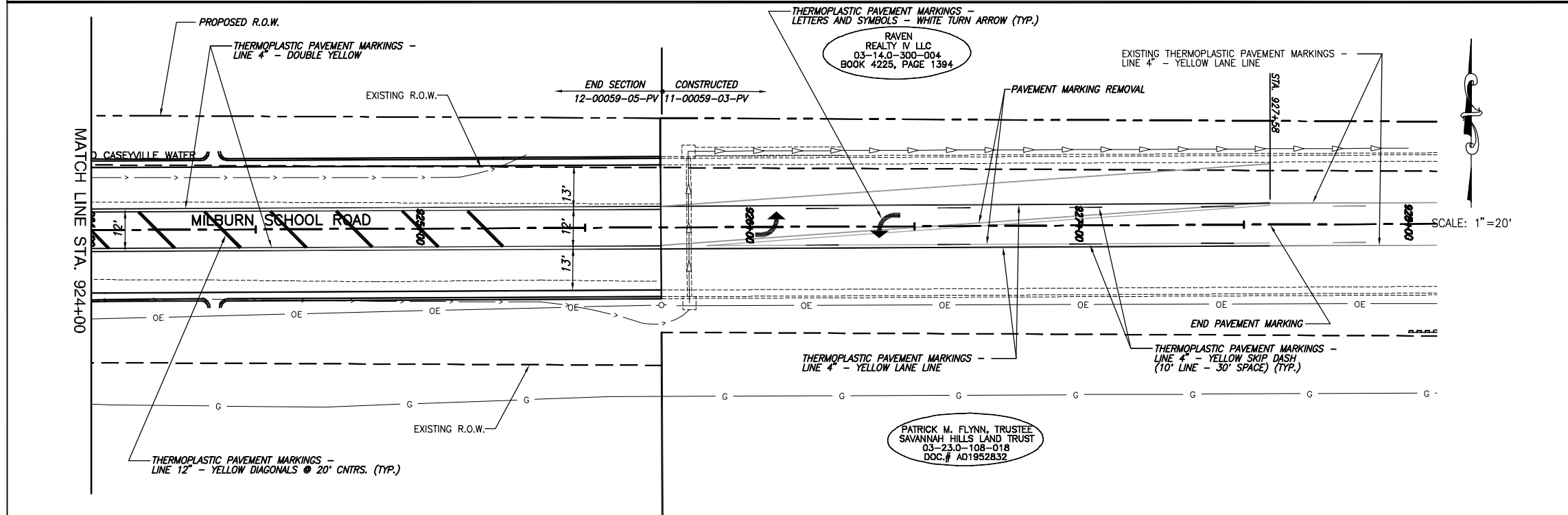
DETAIL "B"



DETAIL "C"

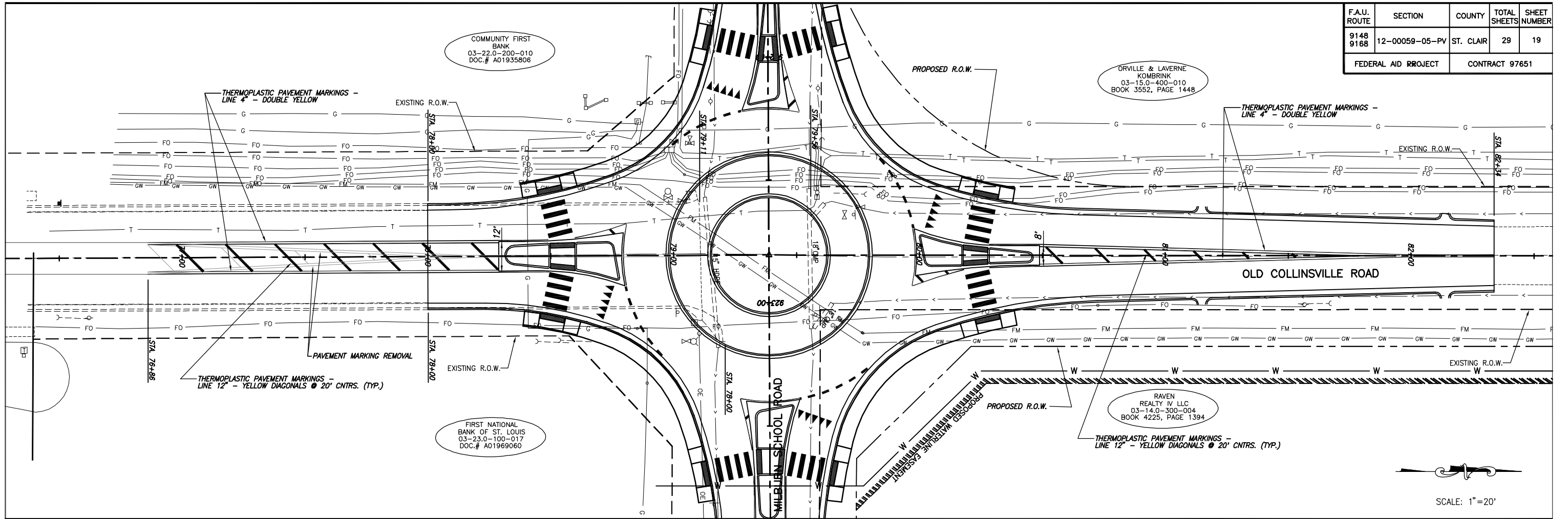


DETAIL "D"



SCALE: 1"=20'

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	19
FEDERAL AID PROJECT		CONTRACT 97651		

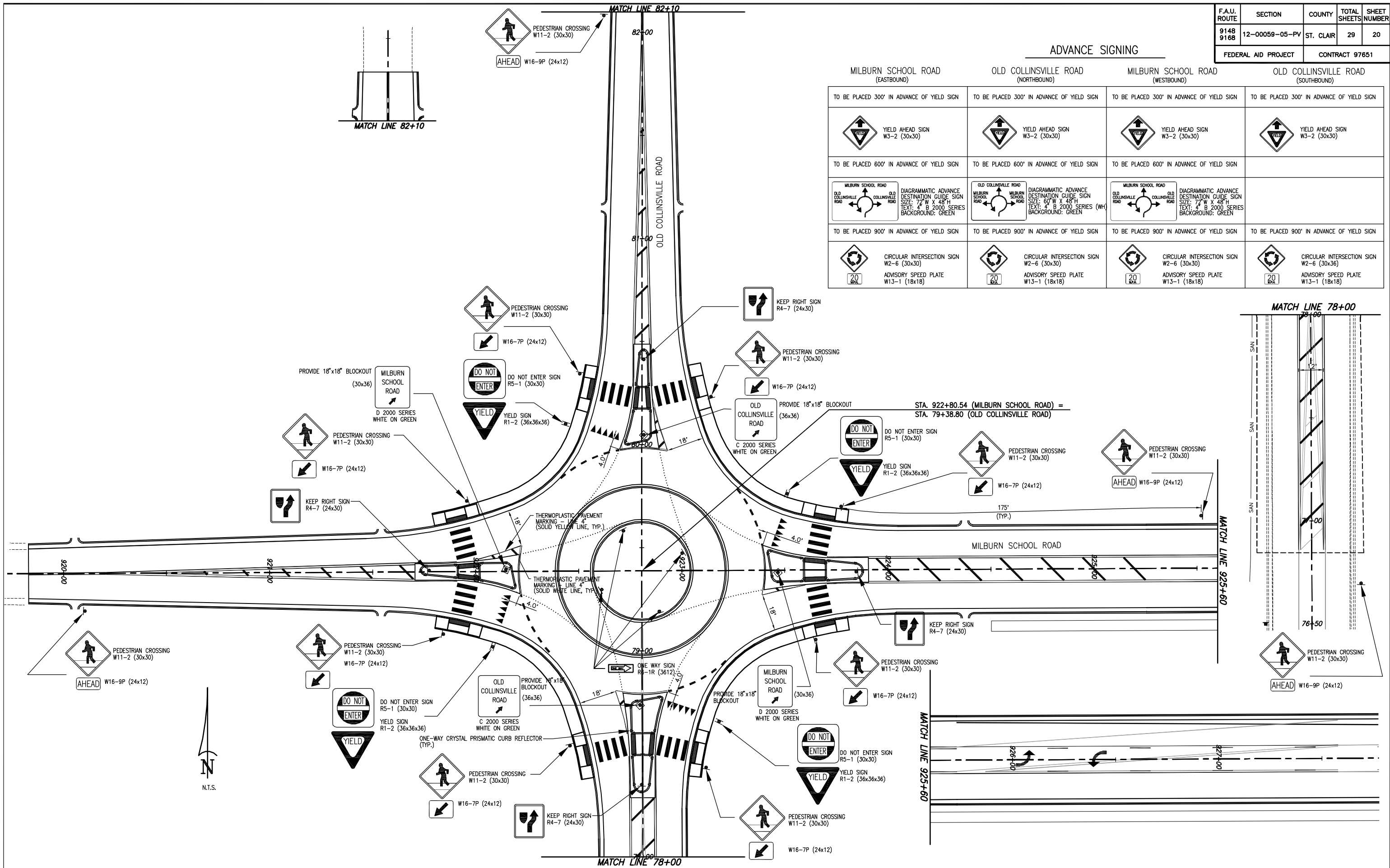


SCALE: 1"=20'

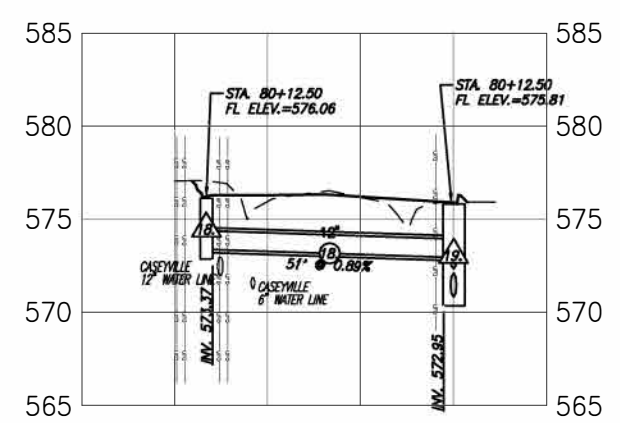
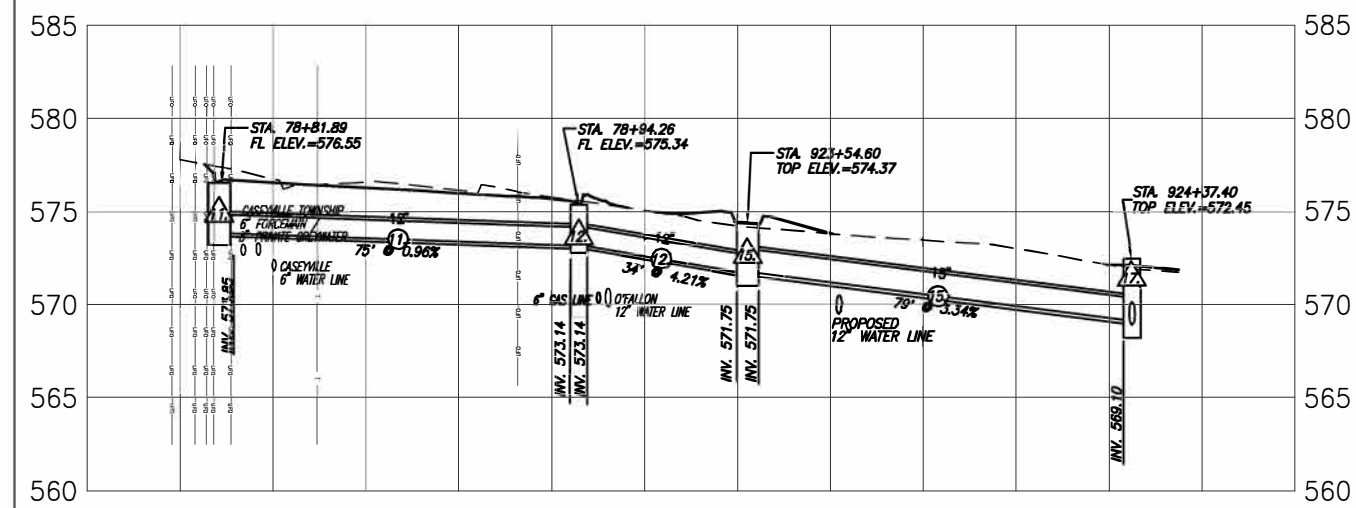
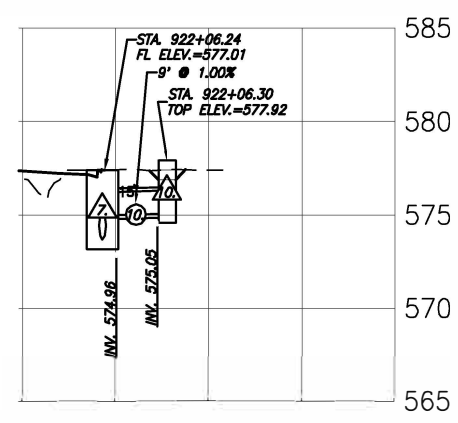
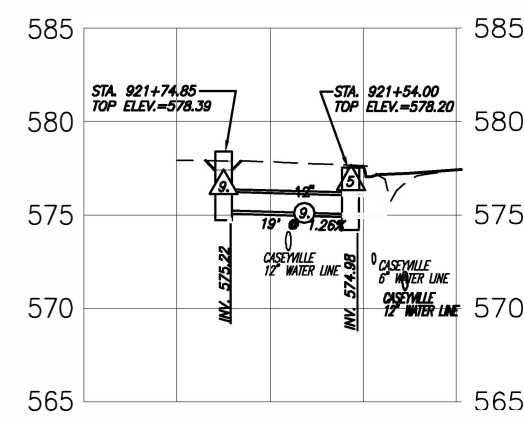
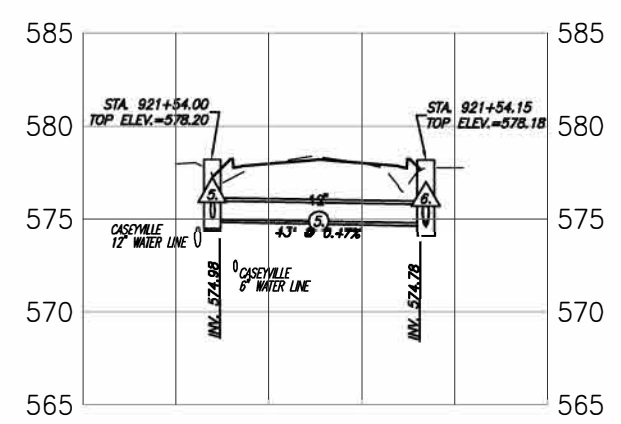
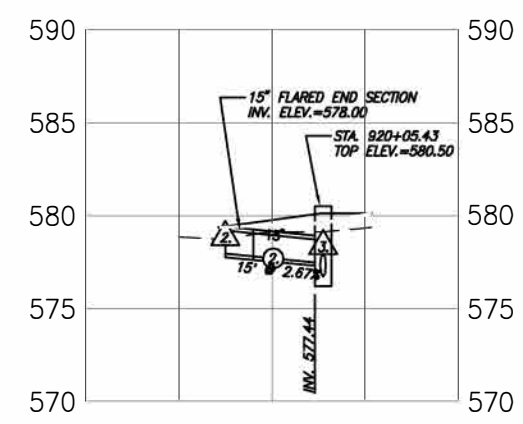
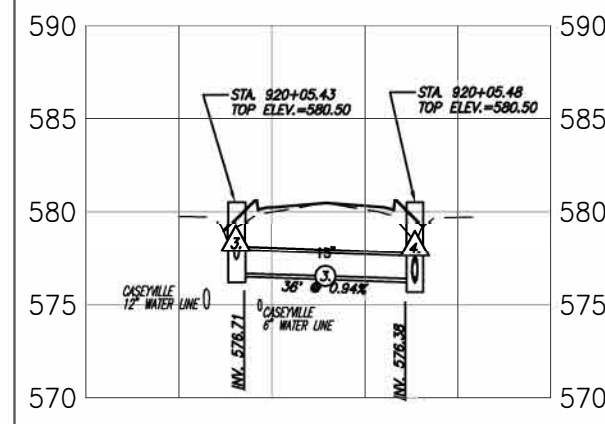
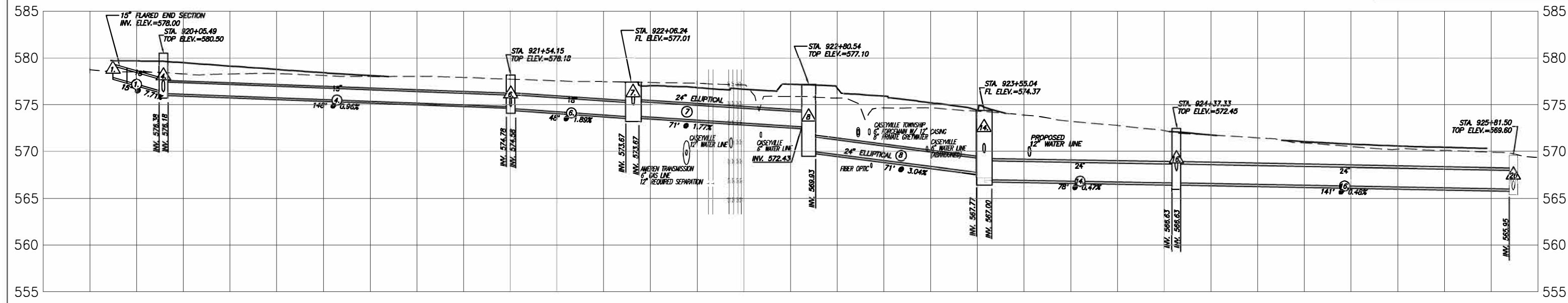
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	20
FEDERAL AID PROJECT			CONTRACT 97651	

ADVANCE SIGNING

MILBURN SCHOOL ROAD (EASTBOUND)	OLD COLLINSVILLE ROAD (NORTHBOUND)	MILBURN SCHOOL ROAD (WESTBOUND)	OLD COLLINSVILLE ROAD (SOUTHBOUND)
TO BE PLACED 300' IN ADVANCE OF YIELD SIGN	TO BE PLACED 300' IN ADVANCE OF YIELD SIGN	TO BE PLACED 300' IN ADVANCE OF YIELD SIGN	TO BE PLACED 300' IN ADVANCE OF YIELD SIGN
YIELD AHEAD SIGN W3-2 (30x30)	YIELD AHEAD SIGN W3-2 (30x30)	YIELD AHEAD SIGN W3-2 (30x30)	YIELD AHEAD SIGN W3-2 (30x30)
TO BE PLACED 600' IN ADVANCE OF YIELD SIGN	TO BE PLACED 600' IN ADVANCE OF YIELD SIGN	TO BE PLACED 600' IN ADVANCE OF YIELD SIGN	
MILBURN SCHOOL ROAD OLD COLLINSVILLE ROAD DIAGRAMMATIC ADVANCE DESTINATION GUIDE SIGN SIZE: 72" W X 48" H TEXT: 4" B 2000 SERIES BACKGROUND: GREEN	OLD COLLINSVILLE ROAD MILBURN SCHOOL ROAD DIAGRAMMATIC ADVANCE DESTINATION GUIDE SIGN SIZE: 60" W X 48" H TEXT: 4" B 2000 SERIES (WH) BACKGROUND: GREEN	MILBURN SCHOOL ROAD OLD COLLINSVILLE ROAD DIAGRAMMATIC ADVANCE DESTINATION GUIDE SIGN SIZE: 72" W X 48" H TEXT: 4" B 2000 SERIES BACKGROUND: GREEN	
TO BE PLACED 900' IN ADVANCE OF YIELD SIGN	TO BE PLACED 900' IN ADVANCE OF YIELD SIGN	TO BE PLACED 900' IN ADVANCE OF YIELD SIGN	TO BE PLACED 900' IN ADVANCE OF YIELD SIGN
CIRCULAR INTERSECTION SIGN W2-6 (30x30) ADVISORY SPEED PLATE W13-1 (18x18)	CIRCULAR INTERSECTION SIGN W2-6 (30x30) ADVISORY SPEED PLATE W13-1 (18x18)	CIRCULAR INTERSECTION SIGN W2-6 (30x30) ADVISORY SPEED PLATE W13-1 (18x18)	CIRCULAR INTERSECTION SIGN W2-6 (30x30) ADVISORY SPEED PLATE W13-1 (18x18)

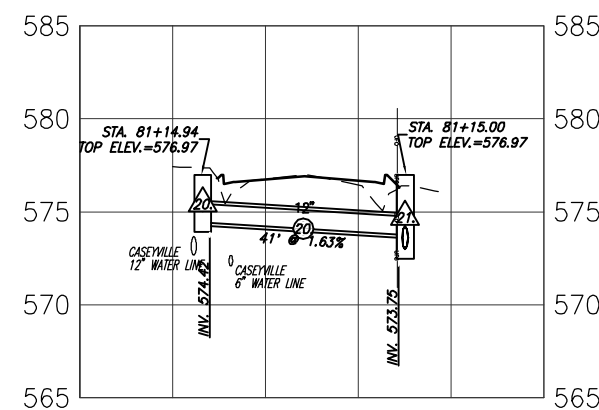
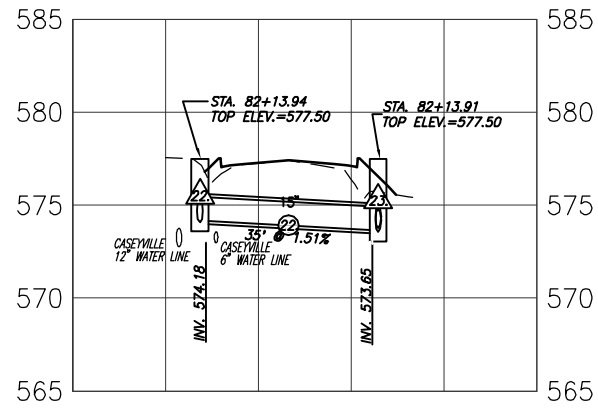
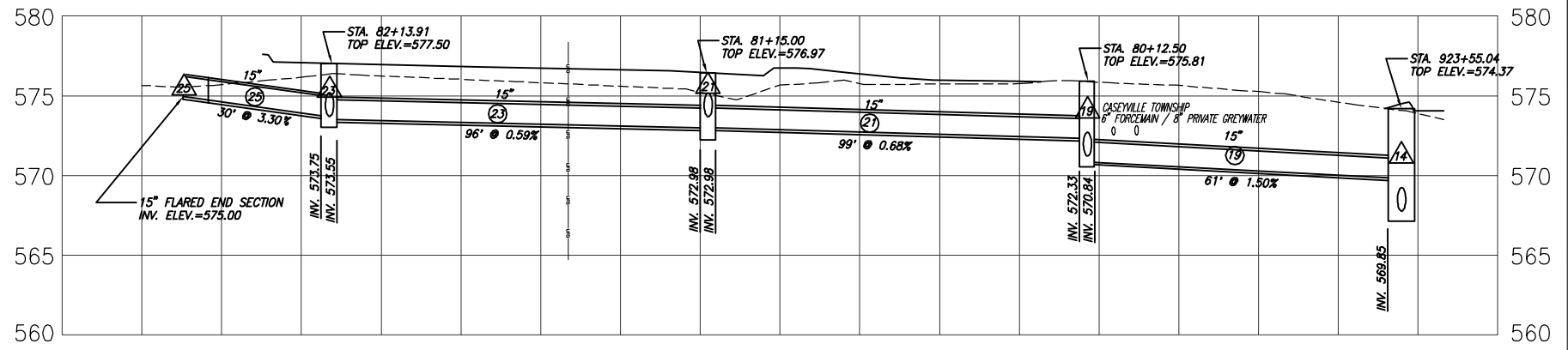
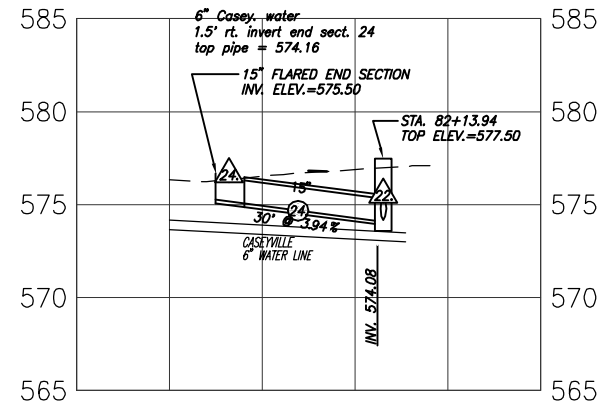
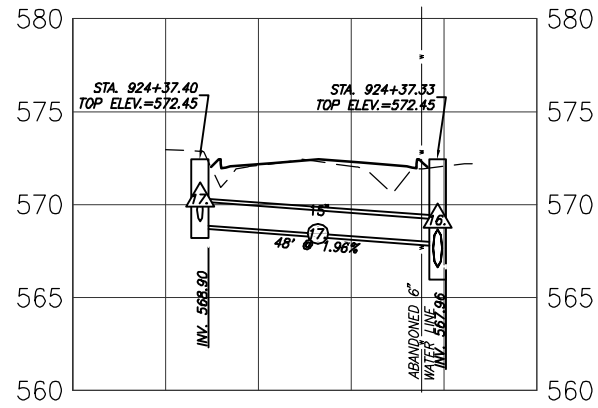


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9188	12-00059-05-PV	ST. CLAIR	29	21
FEDERAL AID PROJECT			CONTRACT 97651	



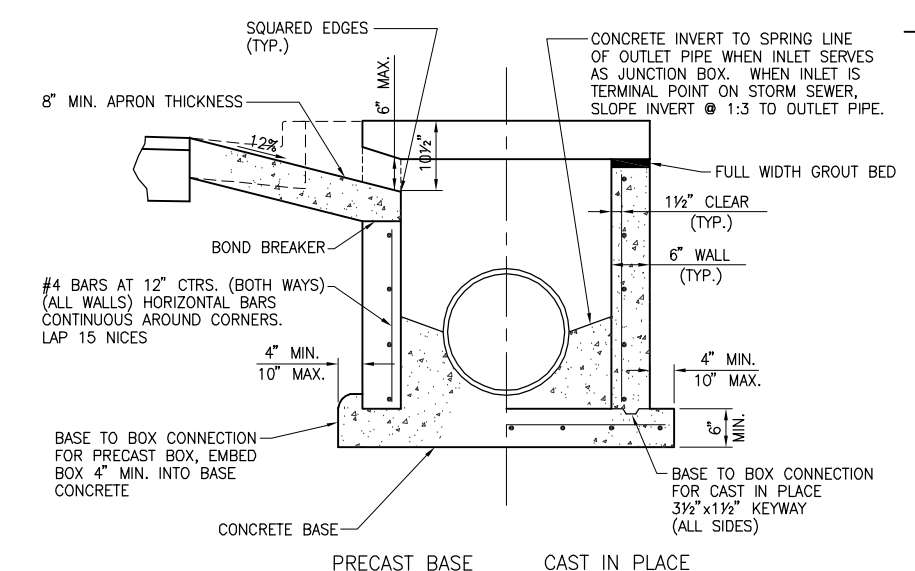
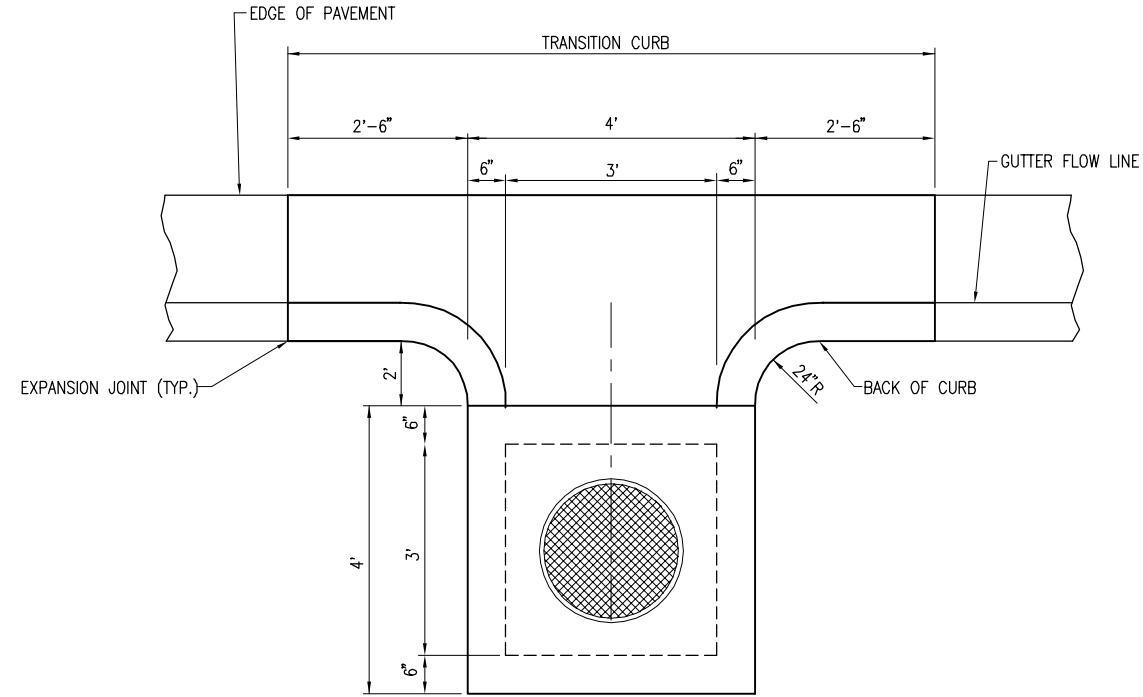
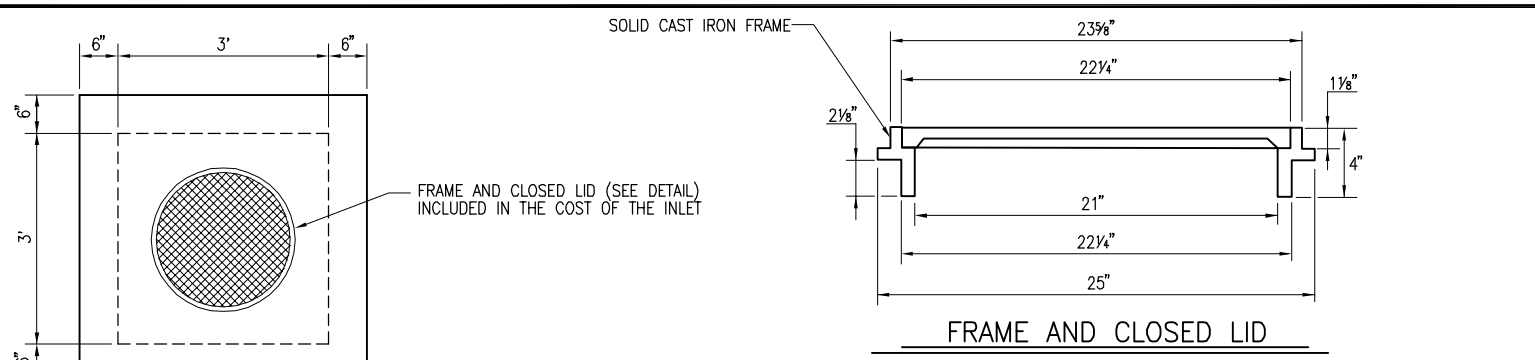
NOT TO SCALE

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	22
FEDERAL AID PROJECT			CONTRACT 97651	

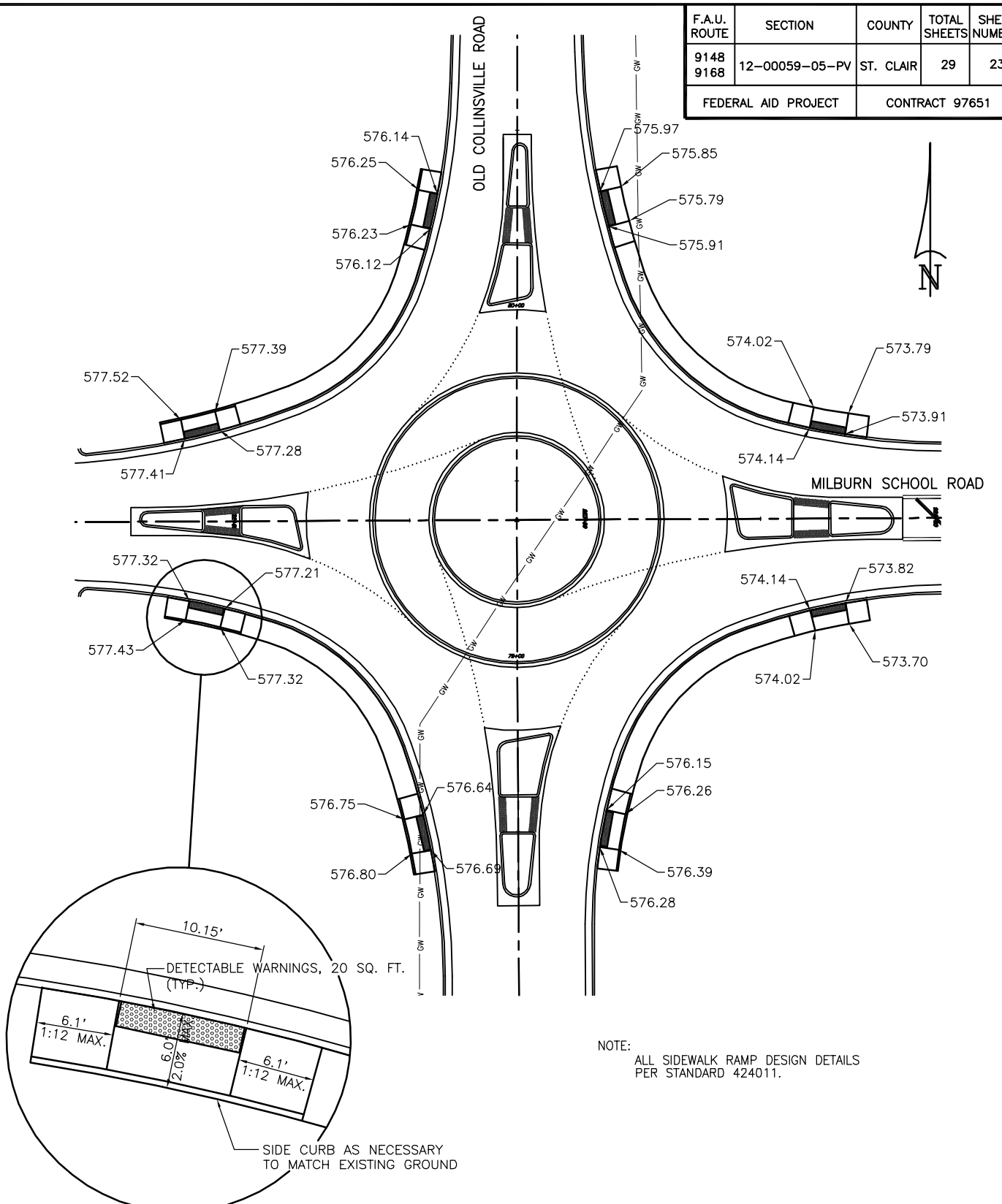


NOT TO SCALE

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	23
FEDERAL AID PROJECT			CONTRACT 97651	

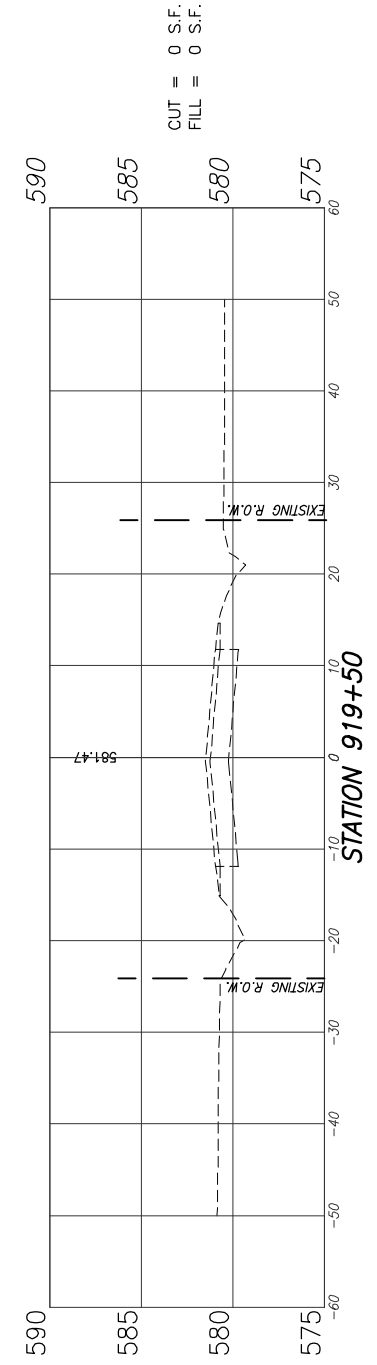
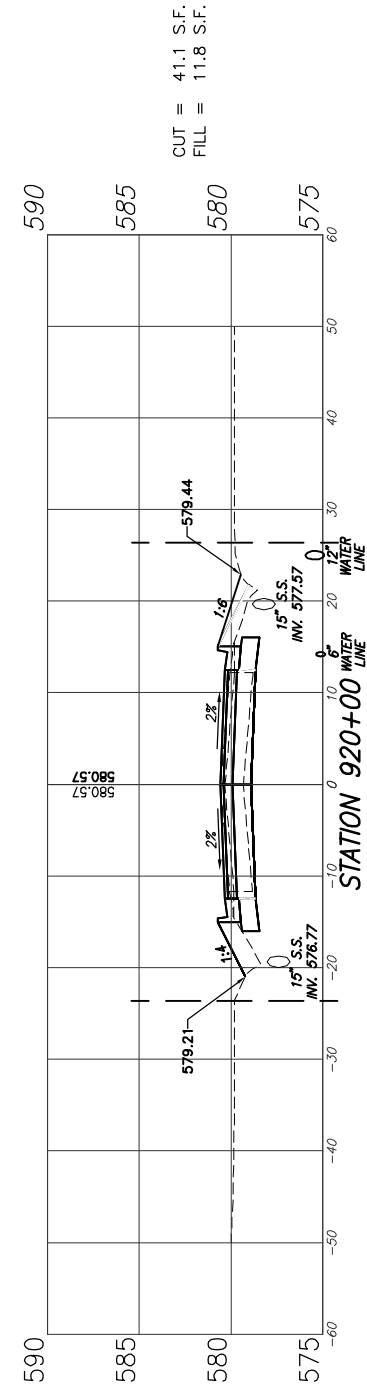
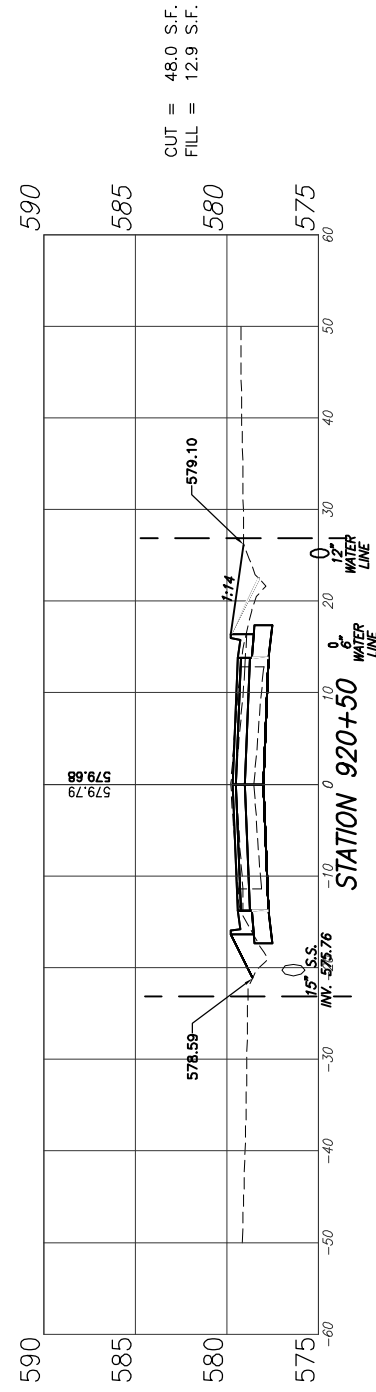
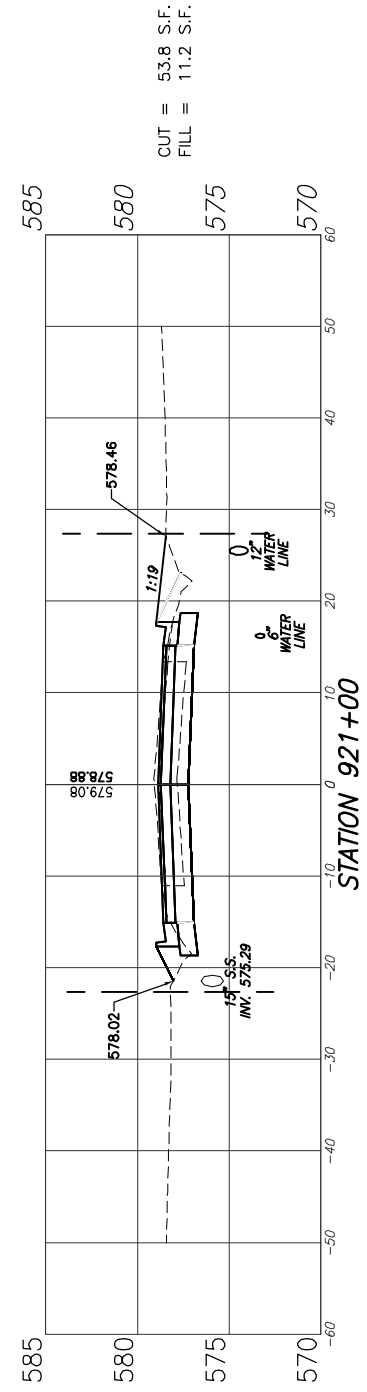
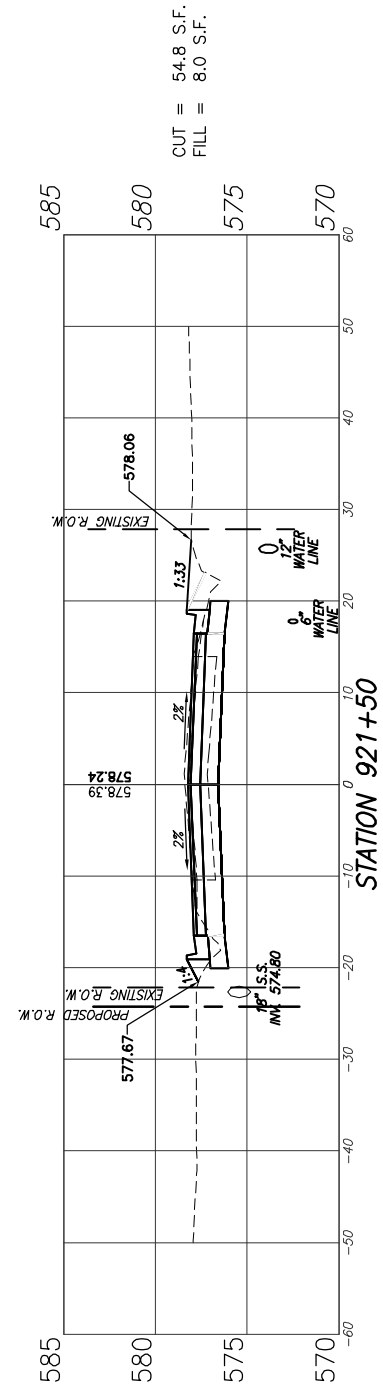


INLETS, SPECIAL NO. 1 - 3' X 3'
N.T.S.



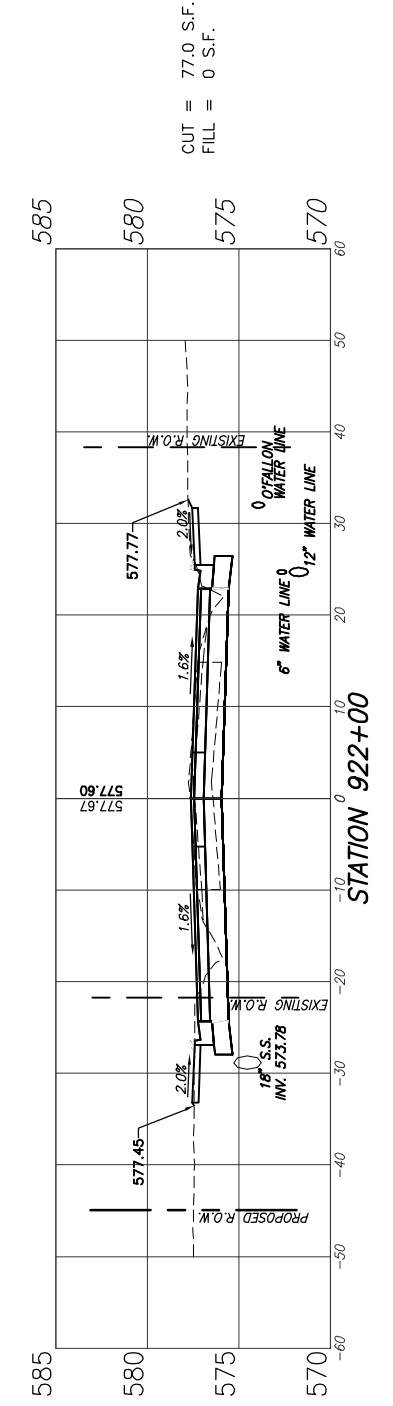
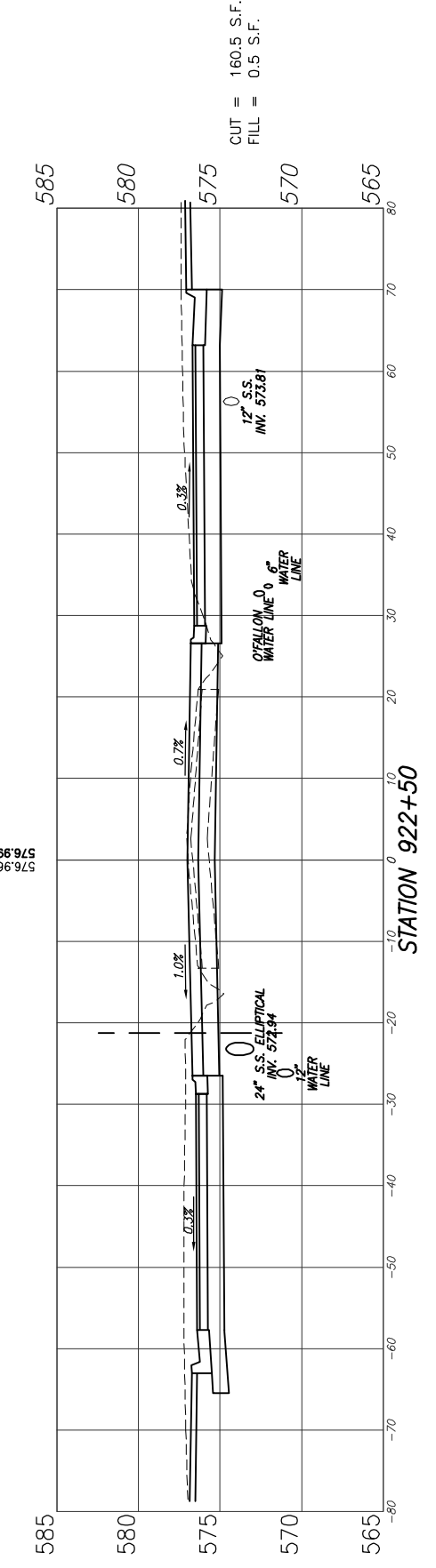
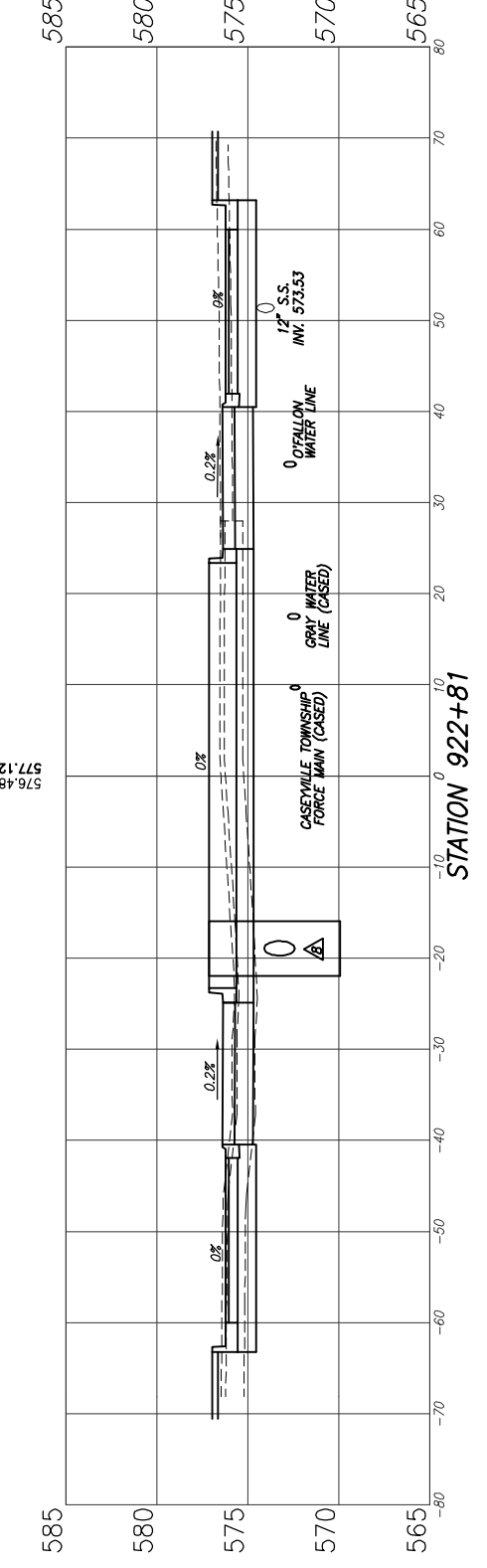
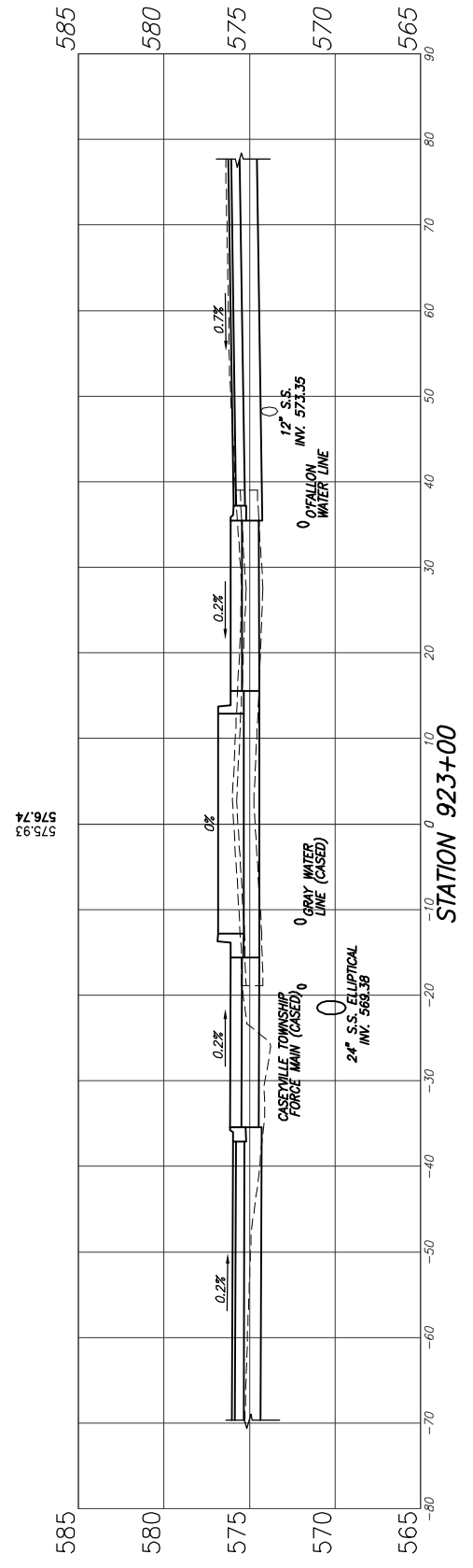
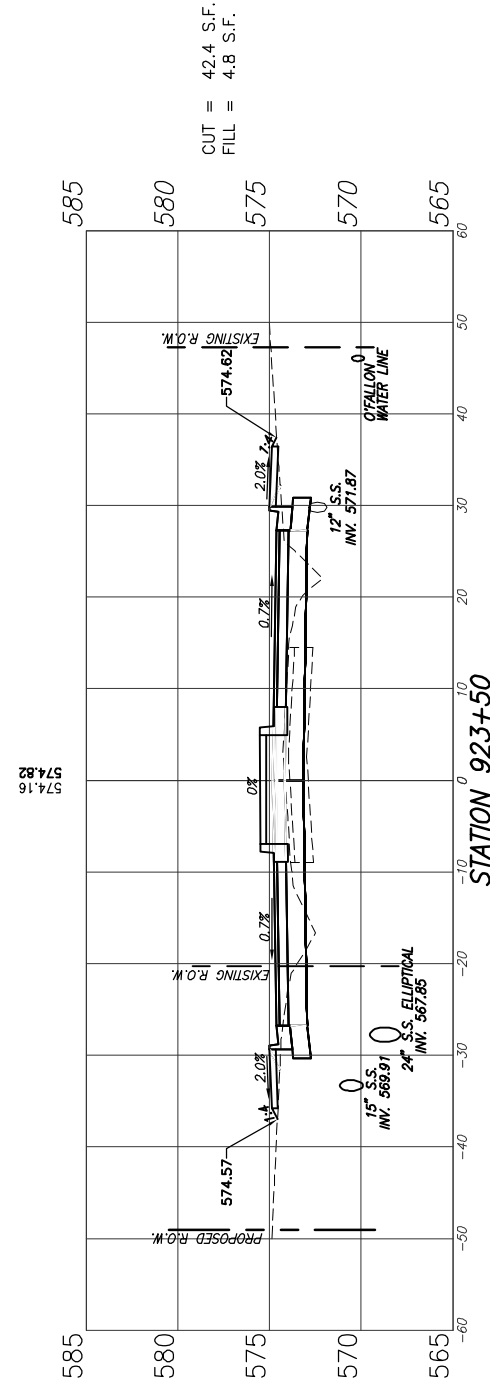
HANDICAP RAMP DETAILS
SCALE: 1" = 20'

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	24
FEDERAL AID PROJECT		CONTRACT 97651		



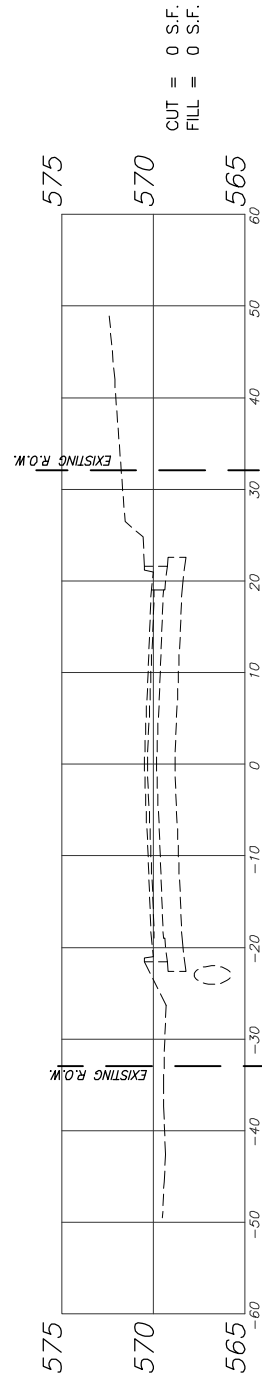
MILBURN SCHOOL ROAD

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	25
FEDERAL AID PROJECT		CONTRACT 97651		

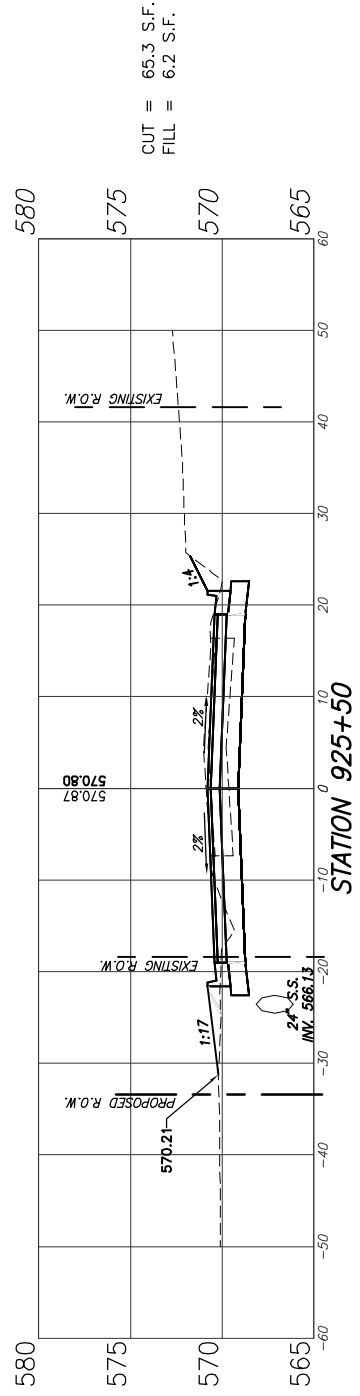


MILBURN SCHOOL ROAD

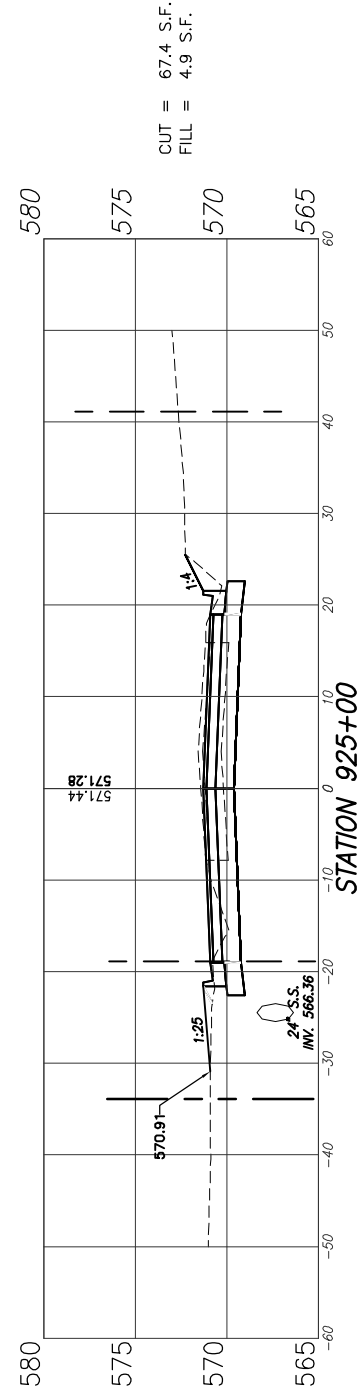
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	26
FEDERAL AID PROJECT		CONTRACT 97651		



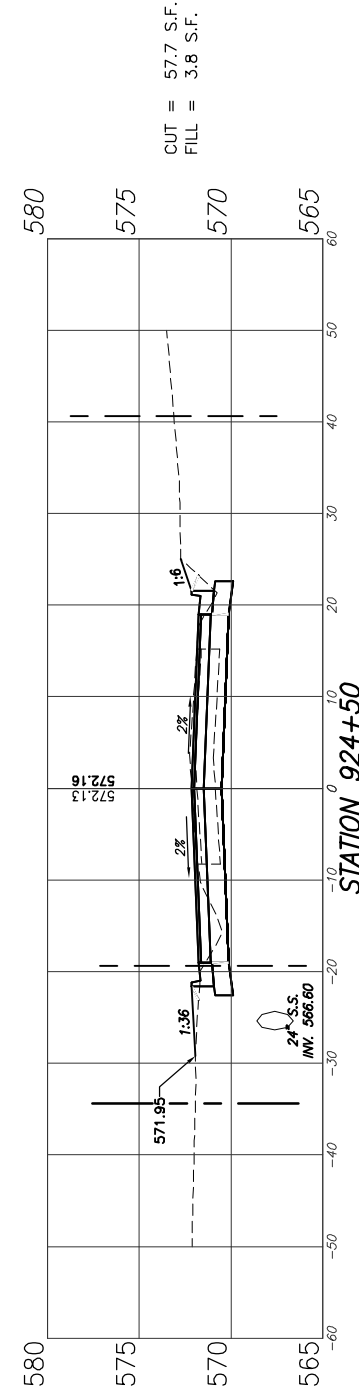
STATION 926+00



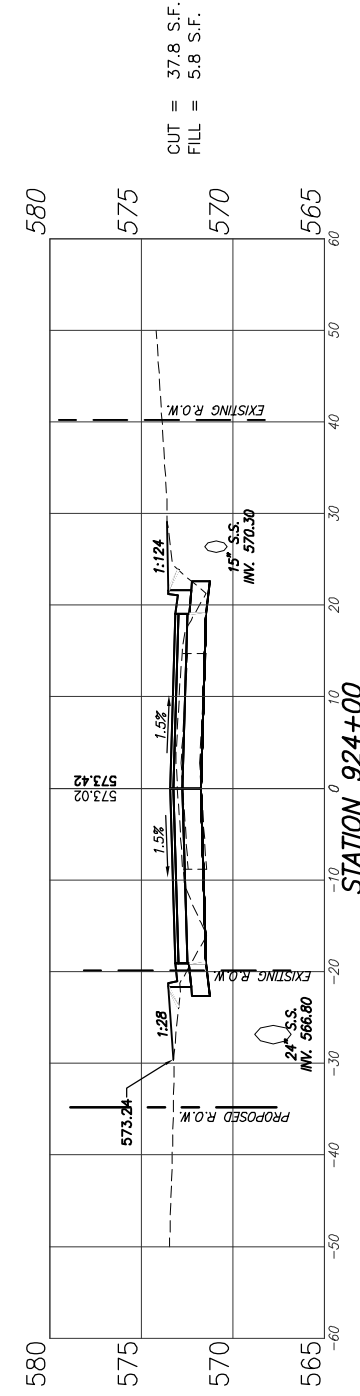
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STATION 925+00



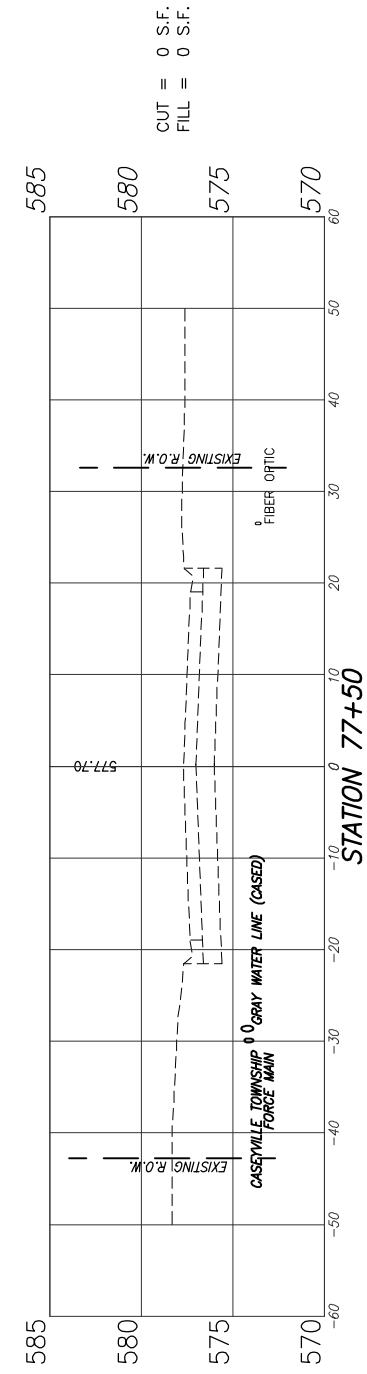
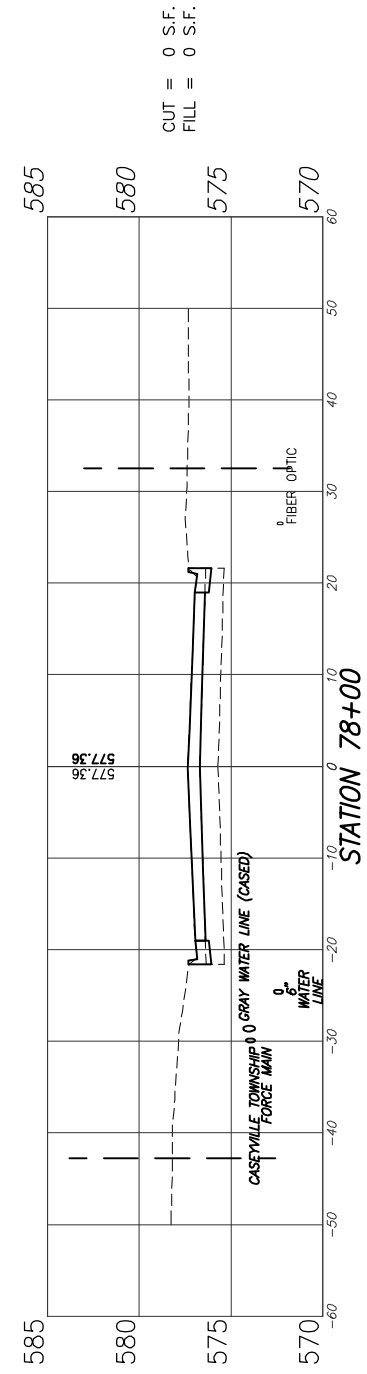
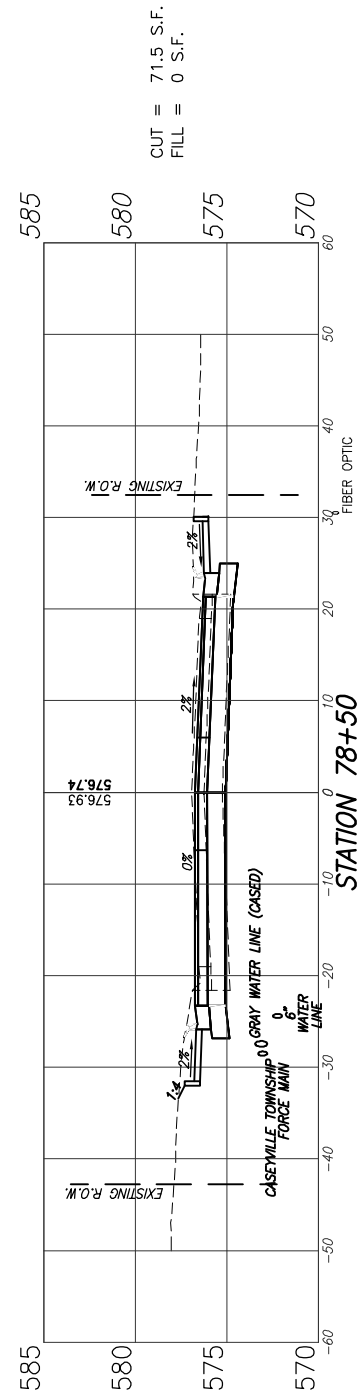
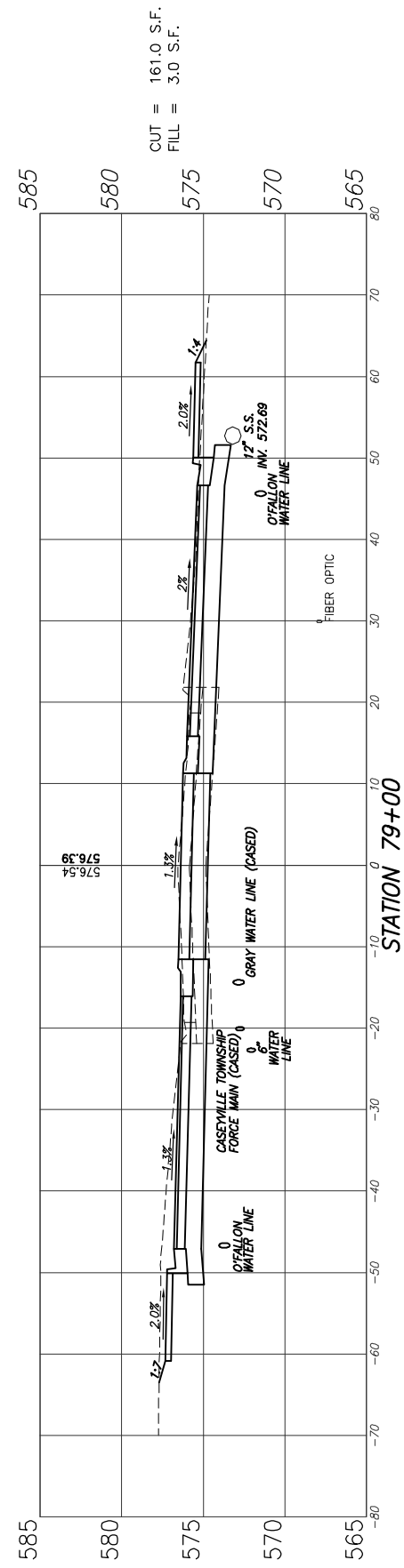
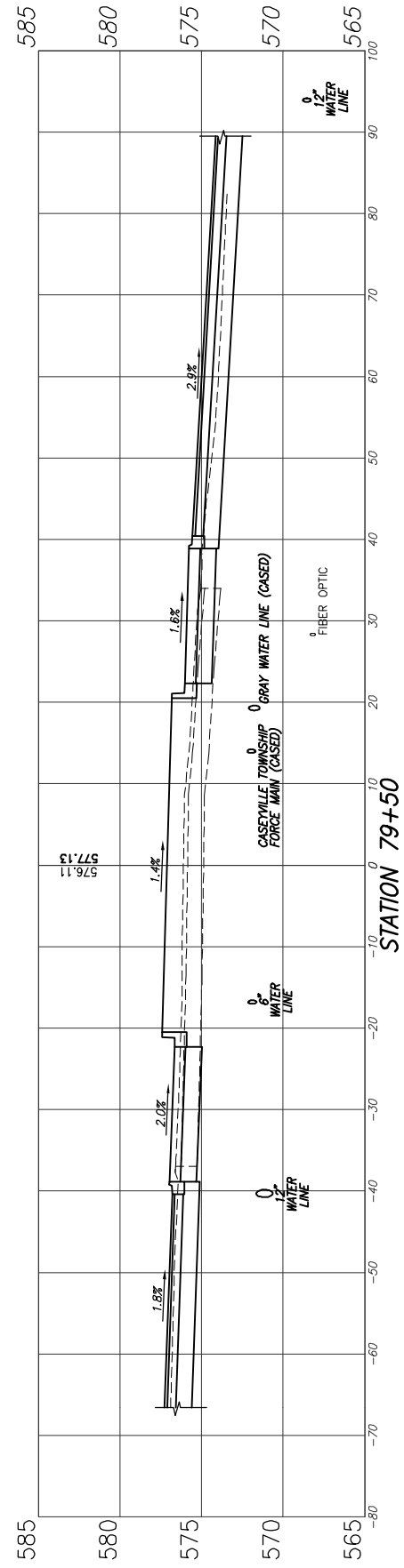
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STATION 924+00

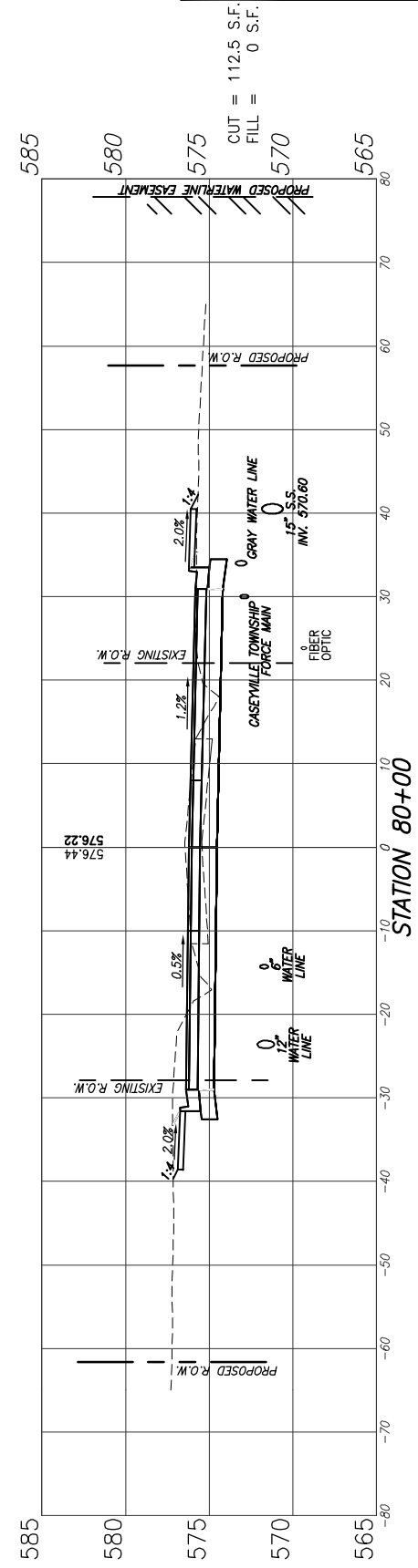
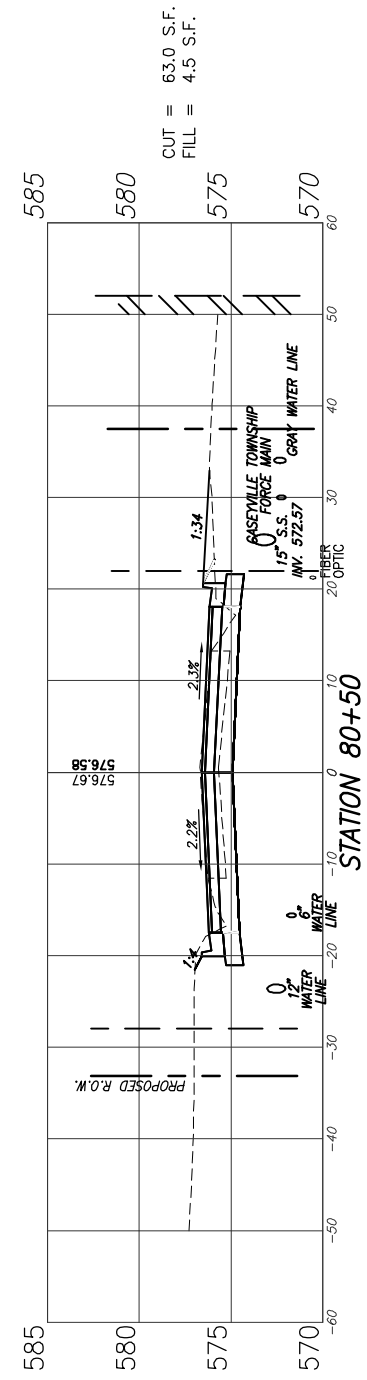
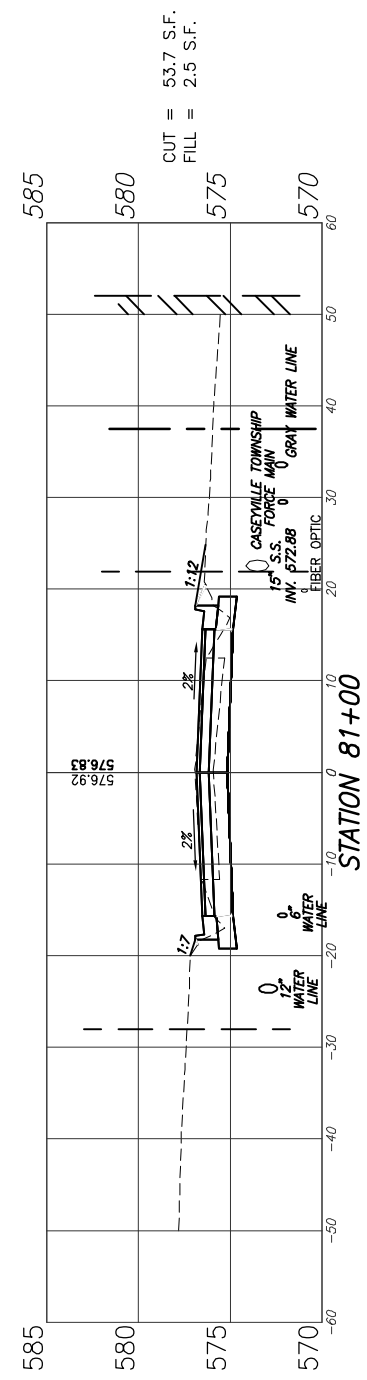
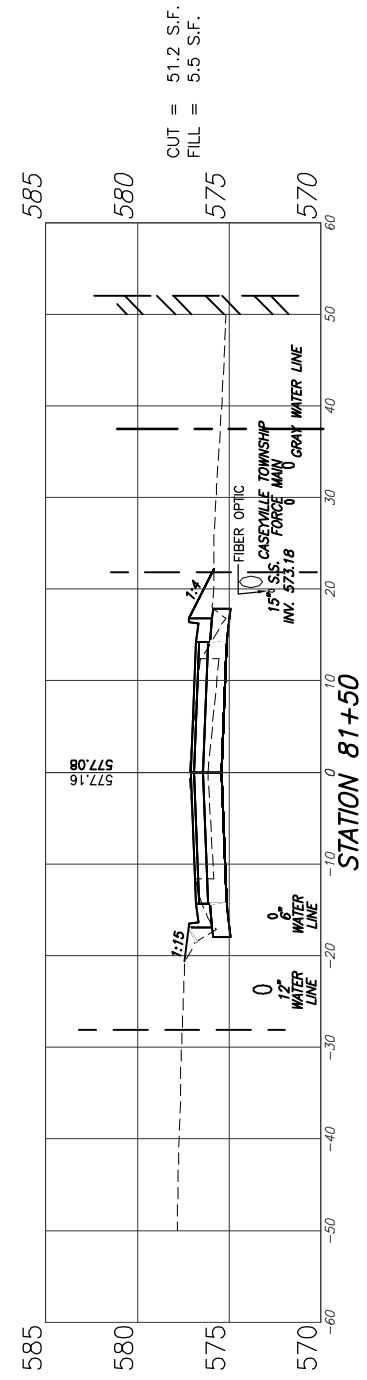
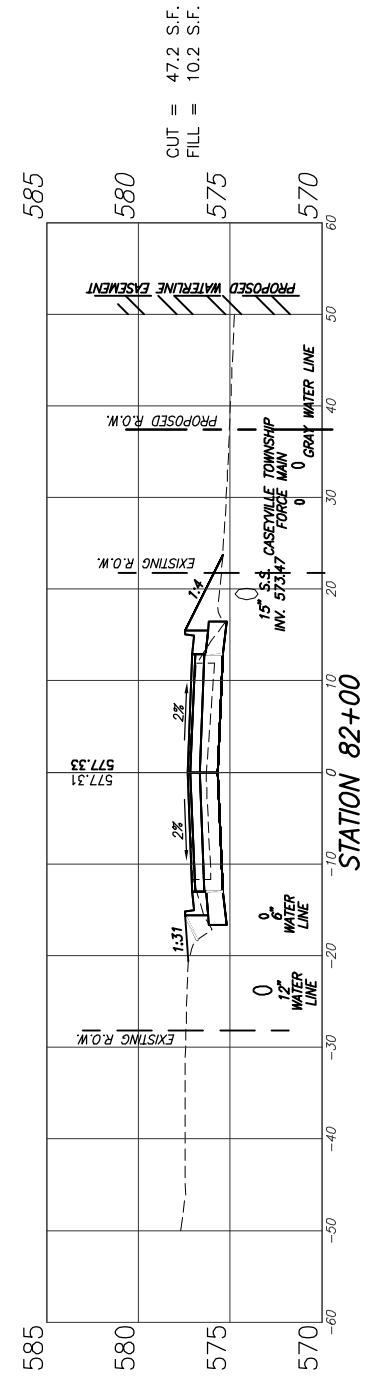
MILBURN SCHOOL ROAD

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	27
FEDERAL AID PROJECT		CONTRACT 97651		



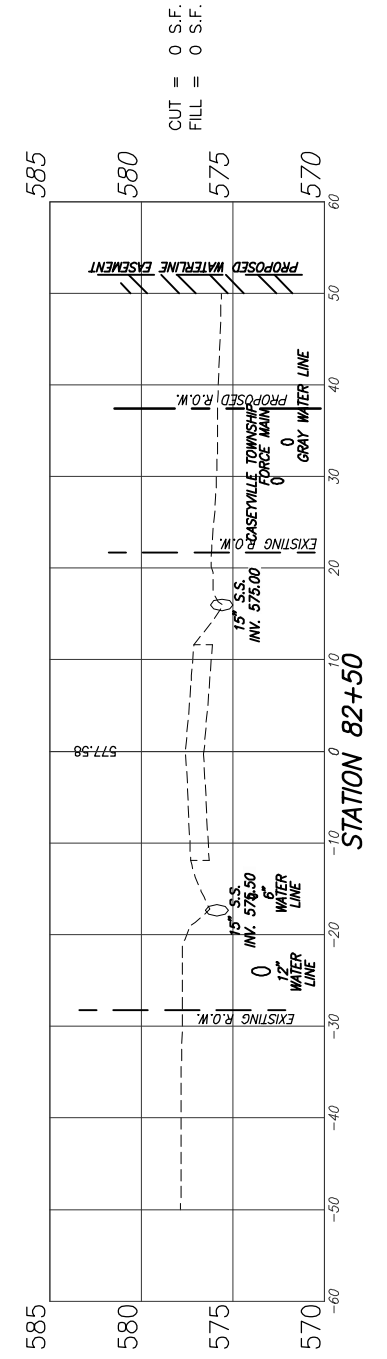
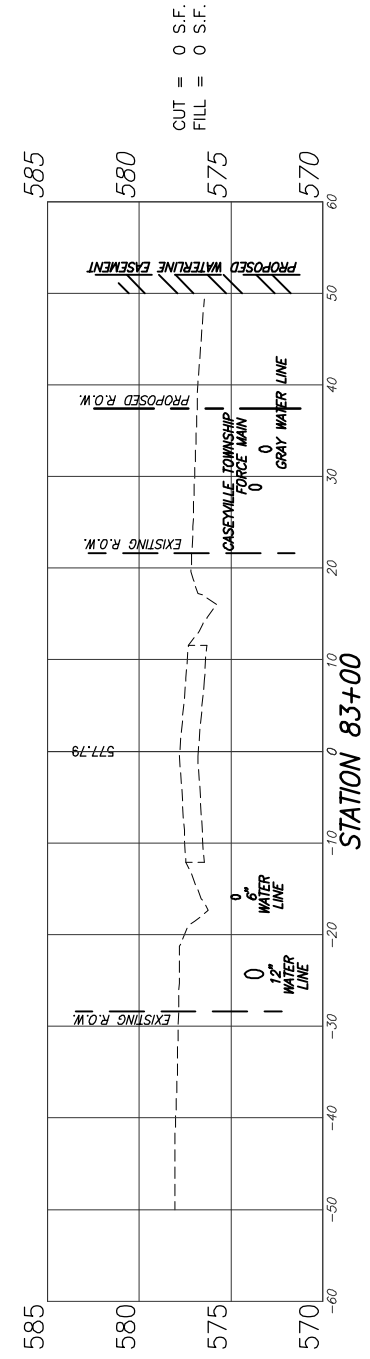
OLD COLLINSVILLE ROAD

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	28
FEDERAL AID PROJECT		CONTRACT 97651		



OLD COLLINSVILLE ROAD

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9148 9168	12-00059-05-PV	ST. CLAIR	29	29
FEDERAL AID PROJECT		CONTRACT 97651		



OLD COLLINSVILLE ROAD