

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

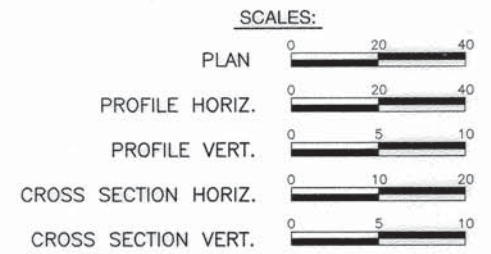
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	1
FEDERAL AID PROJECT			CONTRACT 97571	

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PLANS FOR PROPOSED LOCAL AGENCY PROJECT

FAU ROUTE 9166 (WEST HIGHWAY 50 CONGESTION IMPROVEMENTS)
SECTION 06-00058-00-PV
PROJECT NO. CMM-5011(266)
CITY OF O'FALLON, ILLINOIS
ST. CLAIR COUNTY
JOB NO. C-98-345-09
CMAQ PROGRAM

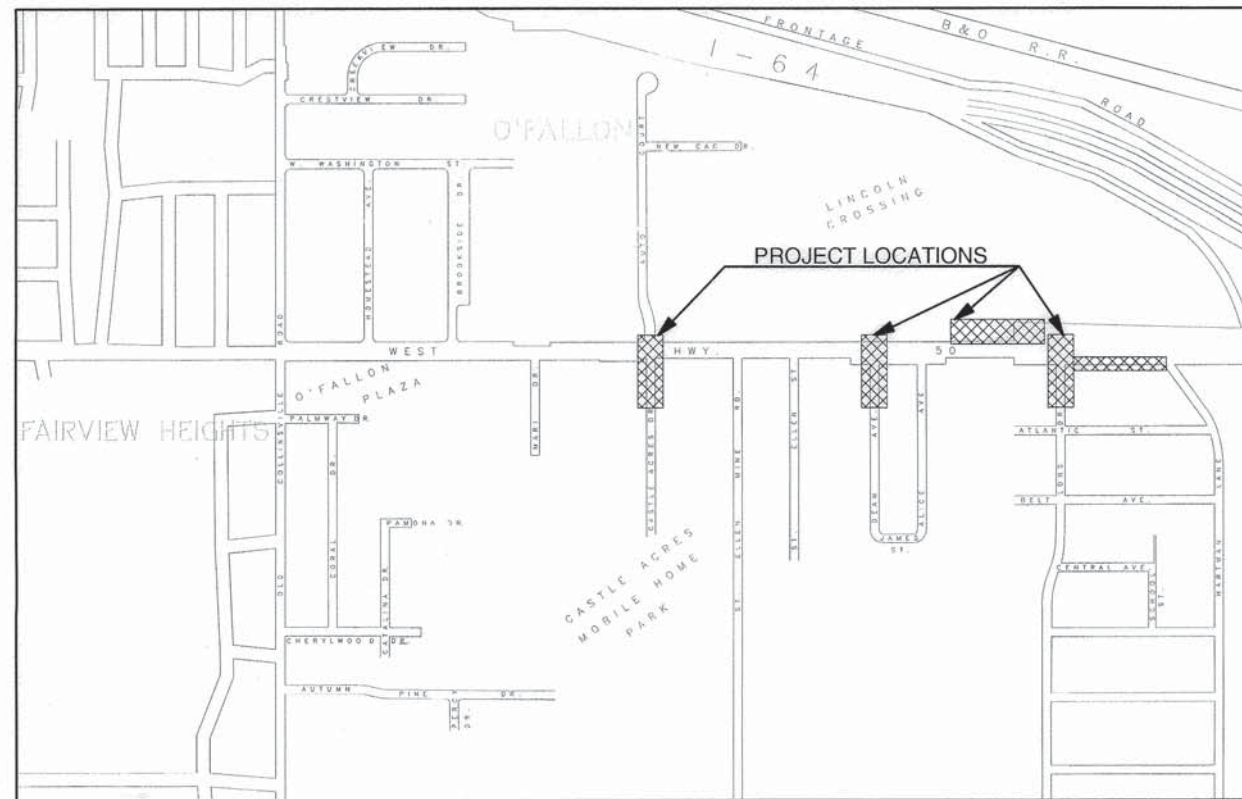


WEST HIGHWAY 50
ROADWAY DESIGNATION: MINOR ARTERIAL
DESIGN SPEED: 45 M.P.H
ADT: CURRENT (2013) 24,100
20-YEAR (2033) 29,400

CASTLE ACRES
ROADWAY DESIGNATION: LOCAL ROAD
DESIGN SPEED: 25 M.P.H
ADT: CURRENT (2013) 1,200
20-YEAR (2033) 1,450

DEAN DRIVE
ROADWAY DESIGNATION: LOCAL ROAD
DESIGN SPEED: 25 M.P.H
ADT: CURRENT (2013) 1,850
20-YEAR (2033) 2,250

LONG DRIVE
ROADWAY DESIGNATION: LOCAL ROAD
DESIGN SPEED: 25 M.P.H
ADT: CURRENT (2013) 1,050
20-YEAR (2033) 1,250



LOCATION MAP
NOT TO SCALE

WEST HIGHWAY 50 (STA. 472+89.26 TO STA. 477+54.82)	465.56 FT. = 0.088 MILES
CASTLE ACRES (STA. 8+17.83 TO STA. 9+69.48)	151.65 FT. = 0.029 MILES
DEAN DRIVE (STA. 17+48.23 TO STA. 19+69.25)	221.02 FT. = 0.042 MILES
LONG DRIVE (STA. 26+92.20 TO STA. 29+66.62)	274.42 FT. = 0.052 MILES
FRONTAGE ROAD SIDEWALK (STA. 50+26.62 TO STA. 56+04.35)	577.73 FT. = 0.110 MILES
NET LENGTH OF IMPROVEMENT 1,690.38 FT. = 0.320 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 800/892-0123 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: 11/03/15 DATE
Harry L. Striban
MAYOR, CITY OF O'FALLON

PASSED: 11-12-15 DATE
Gene Miller
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS.

RELEASING FOR BID
BASED ON LIMITED
REVIEW: 11-12-15 DATE
Jeffrey J. Klein
DEPUTY DIRECTOR OF HIGHWAYS, REGION FIVE ENGINEER
PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS



Mark A. Rujawitz
Mark A. Rujawitz
11/2/2015
Date of Signing
11/30/2017
Date of License Expiration

PREPARED BY:
RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS

CORPORATE OFFICE: 4 INDUSTRIAL DRIVE, FREEBURG, ILLINOIS 62243 (618) 539-3178
REGIONAL OFFICE: 201 SOUTH LOCUST STREET, CENTRALIA, ILLINOIS 62801 (618) 532-1992

GENERAL NOTES

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	2
FEDERAL AID PROJECT			CONTRACT 97571	

- 1.) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012.
- 2.) EXISTING UTILITIES SHOWN ARE LOCATED FROM SURFACE OBSERVATIONS OR INFORMATION PROVIDED BY THE RESPECTIVE UTILITIES AND MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHERS, THE EXACT LOCATION OF WHICH ARE UNKNOWN AND NOT SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE RESPECTIVE UTILITIES BEFORE WORK IS BEGUN. FIELD MARKINGS OF UNDERGROUND UTILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 1-800-892-0123 OR BY DIRECT CONTACT WITH NON-MEMBERS OF J.U.L.I.E.
- 3.) EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT OPEN TO TRAFFIC SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES, AND APPROPRIATE LIGHTS.
- 4.) "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE 48"x48".
- 5.) ALL AREAS DISTURBED FOR ANY REASON WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 1 SEEDING. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04. AREAS DISTURBED BEYOND THE CONSTRUCTION LIMITS SHALL BE SEEDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- 6.) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 7.) AN ESTIMATED 326 TONS OF HMA SURFACE WILL BE REMOVED FROM THIS PROJECT.
- 8.) PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS AND FACE OF CURBS.
- 9.) THE COST OF REMOVING AND RELOCATING ALL EXISTING TRAFFIC SIGNS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 10.) AN ESTIMATED QUANTITY OF 100 TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF MAINTAINING ACCESS TO PRIVATE PROPERTY AND LOCAL TRAFFIC THROUGHOUT CONSTRUCTION OPERATIONS.

- 11.) FACTORS USED FOR APPLICATION RATES AND QUANTITY CALCULATIONS ARE AS FOLLOWS:

PAVING

ALL HOT-MIX ASPHALT	0.056 TONS/SQ. YD./INCH
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LB/SQ. FT. (AGGREGATE BASE)
	0.025 LB/SQ. FT. (FOG LIFT)
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ. YD.
AGGREGATE BASE COURSE	0.0555 TONS/SQ. YD./INCH

SEEDING

NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
MULCH	2 TONS/ACRE

- 12.) THE THICKNESS OF THE HOT-MIX ASPHALT SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE ON WHICH THE HOT-MIX ASPHALT IS PLACED.
- 13.) THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT.
- 14.) IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
- 15.) HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR THE CONSTRUCTION OF PCC ENTRANCES AND CURB IN FRONT OF ENTRANCES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR PCC DRIVEWAY PAVEMENT OF THICKNESS SPECIFIED AND CONCRETE CURB AND GUTTER OF TYPE SPECIFIED.
- 16.) SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
- 17.) THE CONTRACTOR SHALL REMOVE EXISTING LANDSCAPING ITEMS AT THE LOCATIONS WHERE THE LANDSCAPING HAS ENCRACHED ONTO THE PUBLIC RIGHT-OF-WAY AND WILL PROHIBIT CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THE LANDSCAPING ITEMS SHALL BE CAREFULLY REMOVED AND STOCKPILED AT A LOCATION DESIGNATED BY THE HOMEOWNER. THE CONTRACTOR AT HIS EXPENSE SHALL REPLACE ANY MATERIALS OR PLANTS THAT ARE DESTROYED OR DAMAGED. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 18.) SHORT TERM PAVEMENT MARKINGS SHALL BE APPLIED TO THE MILLED, PRIME, BINDER, AND FINAL SURFACE COURSE, ONLY THE REMOVAL OF THE FINAL SURFACE APPLICATION WILL BE PAID FOR (WORK ZONE PAVEMENT MARKING REMOVAL-SQ FT). AN AMOUNT OF TEMPORARY PAVEMENT MARKING WHICH EQUALS THE AMOUNT OF PERMANENT PAVEMENT MARKING HAS ALSO BEEN ADDED TO THE PLANS.
- 19.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE FIRE DEPARTMENT AND POLICE DEPARTMENT OF THE CITY OF OFALLON ANY TIME NORMAL TRAFFIC FLOW ON ANY STREET OR ROAD IS TO BE INTERRUPTED, HOWEVER BRIEFLY.
CITY OF OFALLON POLICE DEPARTMENT, 618-624-4545 (NON-EMERGENCY)
CITY OF OFALLON FIRE DEPARTMENT, 618-622-1461 (NON-EMERGENCY)
- 20.) CHANGES IN THE VERTICAL OR HORIZONTAL DIMENSIONS OF GUTTERS, WHEN TRANSITIONS FROM ONE TYPE TO ANOTHER AS SHOWN IN THE PLANS, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR THE TYPE SPECIFIED IN THE PLANS.

- 21.) AN ESTIMATED QUANTITY OF 100 FEET FOR "LOCATING UNDERGROUND UTILITIES HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF UTILITY EXPLORATION AT LOCATIONS OF POTENTIAL CONFLICTS AS DIRECTED BY THE ENGINEER.

UTILITY TYPE	NAME OF UTILITY	PHONE NUMBER	CONTACT NAME
ELECTRIC	AMEREN IP	618-236-4309	JASON KLEIN
GAS	AMEREN IP	618-236-4309	JASON KLEIN
WATER/SEWER	CITY OF O'FALLON	618-624-4500	HEIDE BELL
SEWER	CASEYVILLE TOWNSHIP	618-632-2414	JOSEPH HOGG
TELEPHONE	AT&T	618-628-2957	DEAN LITZENBURG
FIBER OPTIC	AT&T	618-346-6422	LANCE OSBORNE
CABLE	CHARTER COMMUNICATIONS	618-387-6633	GARRY WARREN

APPLICABLE IDOT HIGHWAY STANDARDS:

280001-07	604001-04	701427-03	729001-01	878001-10
424001-08	604006-05	701602-07	780001-05	880006-01
442201-03	604036-03	701701-09	781001-03	886001-01
602301-04	604051-04	701801-05	805001-01	886006-01
602306-03	604091-03	701901-04	814001-03	BLR 21-9
602401-03	606001-06	720001-01	857001-01	
602601-03	664001-02	720006-04	873001-02	
602701-02	701306-03	720011-01	876001-03	

COMMITMENTS

THERE ARE NO COMMITMENTS AT THIS TIME.

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SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	66	66	
20200100	EARTH EXCAVATION	CU YD	2,029	2,029	
20800150	TRENCH BACKFILL	CU YD	61	61	
25000100	SEEDING, CLASS 1	ACRE	0.2	0.2	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	20	20	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	20	20	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	20	20	
25100115	MULCH, METHOD 2	ACRE	0.2	0.2	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	22	22	
28000400	PERIMETER EROSION BARRIER	FOOT	413	413	
28000500	INLET AND PIPE PROTECTION	EACH	26	26	
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	3,340	3,340	
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	182	182	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6,897	6,897	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	793	793	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	264	264	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	36	36	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	31	31	
42001300	PROTECTIVE COAT	SQ YD	405	405	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	32	32	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	4,189	4,189	
42400800	DETECTABLE WARNINGS	SQ FT	146	146	
44000100	PAVEMENT REMOVAL	SQ YD	1,894	1,894	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1-1 1/2"	SQ YD	104	104	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	272	272	
44000300	CURB REMOVAL	FOOT	70	70	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	769	769	
44000600	SIDEWALK REMOVAL	SQ FT	1,165	1,165	
44200116	PAVEMENT PATCHING, TYPE 1, 10 INCH	SQ YD	2	2	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	468	468	
50105220	PIPE CULVERT REMOVAL	FOOT	96	96	
55100500	STORM SEWER REMOVAL, 12"	FOOT	66	66	
5421D008	PIPE CULVERTS CLASS D, TYPE 1 8" (TEMPORARY)	FOOT	30	30	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTION, 12"	EACH	1	1	
550A2320	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 12"	FOOT	-09	409	
550A2330	STORM SEWER, RUBBER GASKET, CLASS A, TYPE 1, 15"	FOOT	219	219	
550B0050	STORM SEWER, RUBBER GASKET, CLASS B, TYPE 1, 12"	FOOT	23	23	
56109210	WATER VALVES TO BE ADJUSTED	EACH	3	3	
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	4	4	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	6	6	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	3	3	
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	3	3	
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2	
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60260100	INLETS TO BE ADJUSTED	EACH	1	1	
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME AND OPEN LID	EACH	2	2	
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME AND CLOSED LID	EACH	3	3	
60500060	REMOVING INLETS	EACH	3	3	
60600605	CONCRETE CURB, TYPE B	FOOT	45	45	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12	FOOT	337	337	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18	FOOT	916	916	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24	FOOT	467	467	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	15	15	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	238	238	
70300210	TEMPORARY PAVEMENT MARKING-LETTERS AND SYMBOLS	SQ FT	250	250	
70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	2,763	2,763	
70300250	TEMPORARY PAVEMENT MARKING-LINE 8"	FOOT	30	30	
70300260	TEMPORARY PAVEMENT MARKING-LINE 12"	FOOT	961	961	
70300280	TEMPORARY PAVEMENT MARKING-LINE 24"	FOOT	212	212	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	24	24	
72000100	SIGN PANEL-TYPE 1	SQ FT	17.2	4	13.2
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	7.5		7.5
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	6.3		6.3
72900100	METAL POST - TYPE A	FOOT	12	12	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	250	250	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,763	2,763	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	940	940	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	212	212	
* 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	30	30	
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	21	21	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	17	17	
* 78300100	PAVEMENT MARKING REMOVAL	SQ FT	557	557	
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12	
* 81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	207		207
* 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	672		672

* SPECIALTY ITEM

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	8		8
* 81028360	UNDERGROUND CONDUIT, PVC, 2½" DIA.	FOOT	5		5
* 81400100	HANDHOLE	EACH	2		2
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1248		1248
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2390		2390
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3468		3468
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2323		2323
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1814		1814
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1164		1164
* 87502660	TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	3		3
* 87602000	PEDESTRIAN PUSH BUTTON POST	EACH	2		2
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	9		9
* 87900200	DRILL EXISTING HANDHOLE	EACH	9		9
* 88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12		12
* 88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2		2
* 88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2		2
* 88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2
* 88040250	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4-SECTION, BRACKET MOUNTED	EACH	4		6
* 88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	4		6
* 88102825	PEDESTRIAN SIGNAL HEAD POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8
* 88102845	PEDESTRIAN SIGNAL HEAD POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3		3
* 88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	13		13
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	1		1
* 88600100	DETECTOR LOOP, TYPE 1	FOOT	2959		2959
* 88800100	PEDESTRIAN PUSH BUTTON	EACH	6		6
* 89502200	MODIFY EXISTING CONTROLLER	EACH	1		1
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3569		3569
* 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	798		798
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3		3
* 89502380	REMOVE EXISTING HANDHOLE	EACH	2		2
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1		1
XX003424	CONNECTION TO EXISTING STRUCTURE	EACH	3	3	
X0323389	STORM SEWER CONNECTIONS	EACH	2	2	
X0327235	LOCATING UNDERGROUND UTILITIES	FOOT	100	100	
X6024242	INLETS, SPECIAL, NO. 1	EACH	3	3	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAFFIC SIGNALS
X6026634	METER VAULTS TO BE ADJUSTED	EACH	1	1	
* X6640560	CHAIN LINK FENCE, 6' (SPECIAL)	FOOT	290	290	
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	0.5	0.5
* X8140115	HANDHOLE TO BE ADJUSTED	EACH	1	1	
* Z0022800	FENCE REMOVAL	FOOT	369	369	
Δ Z0076600	TRAINEES	Hour	500		
Δ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	500		

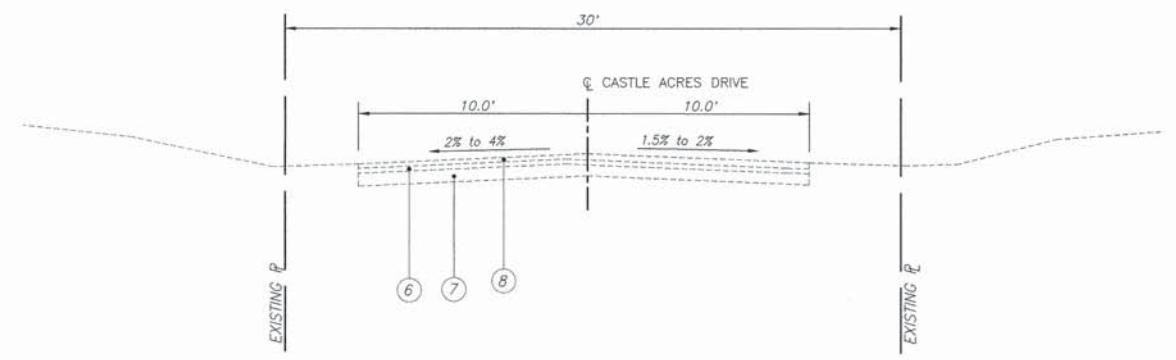
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* SPECIALTY ITEM

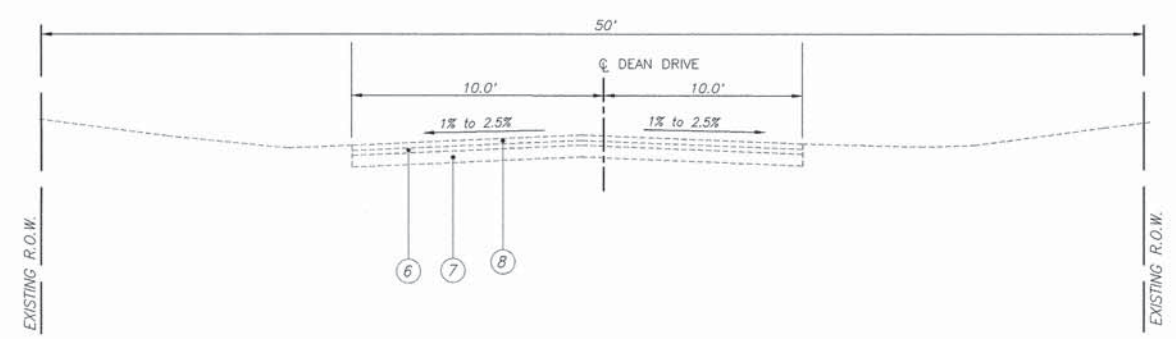
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9166	06-00058-00-PV	ST. CLAIR	50	5
FEDERAL AID PROJECT			CONTRACT 97571	

LEGEND

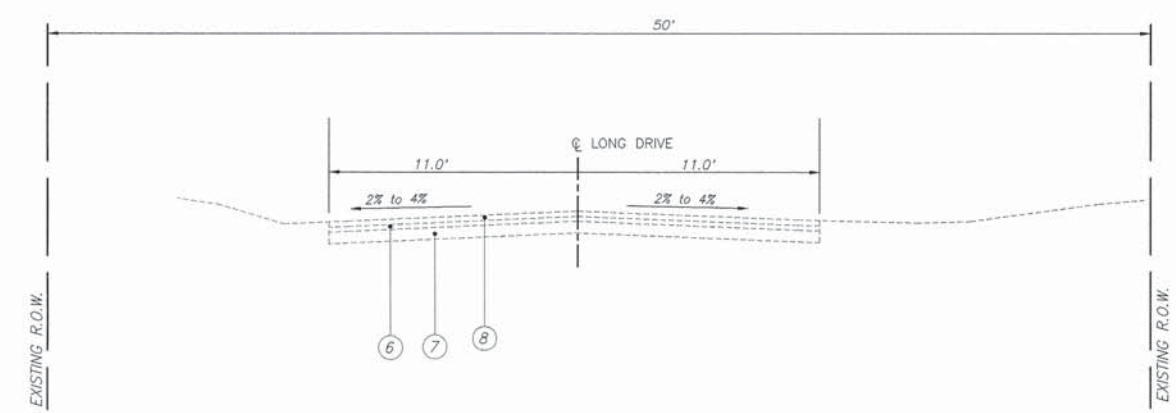
- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE (1½")
- ② EXISTING HOT-MIX ASPHALT BINDER COURSE (2½")
- ③ EXISTING BITUMINOUS BASE COURSE (8½")
- ④ EXISTING LIME MODIFIED SOIL (12")
- ⑤ EXISTING CURB AND GUTTER TO BE REMOVED
- ⑥ EXISTING OIL AND CHIP PAVEMENT (±3")
- ⑦ EXISTING AGGREGATE BASE (±6")
- ⑧ EXISTING HOT-MIX ASPHALT RESURFACING (±2")
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
- ⑩ PROPOSED STRIP REFLECTIVE CRACK CONTROL
- ⑪ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL19.0, N70, 11"
- ⑫ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- ⑬ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"
- ⑮ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL19.0, N70, 4"
- ⑯ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑰ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
- ⑱ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑲ P.C.C. SIDEWALK, 4"



EXISTING TYPICAL SECTION
 N.T.S.
 STA. 8+17.83 TO STA. 9+69.48
 CASTLE ACRES DRIVE



EXISTING TYPICAL SECTION
 N.T.S.
 STA. 17+56.47 TO STA. 19+69.25
 DEAN DRIVE

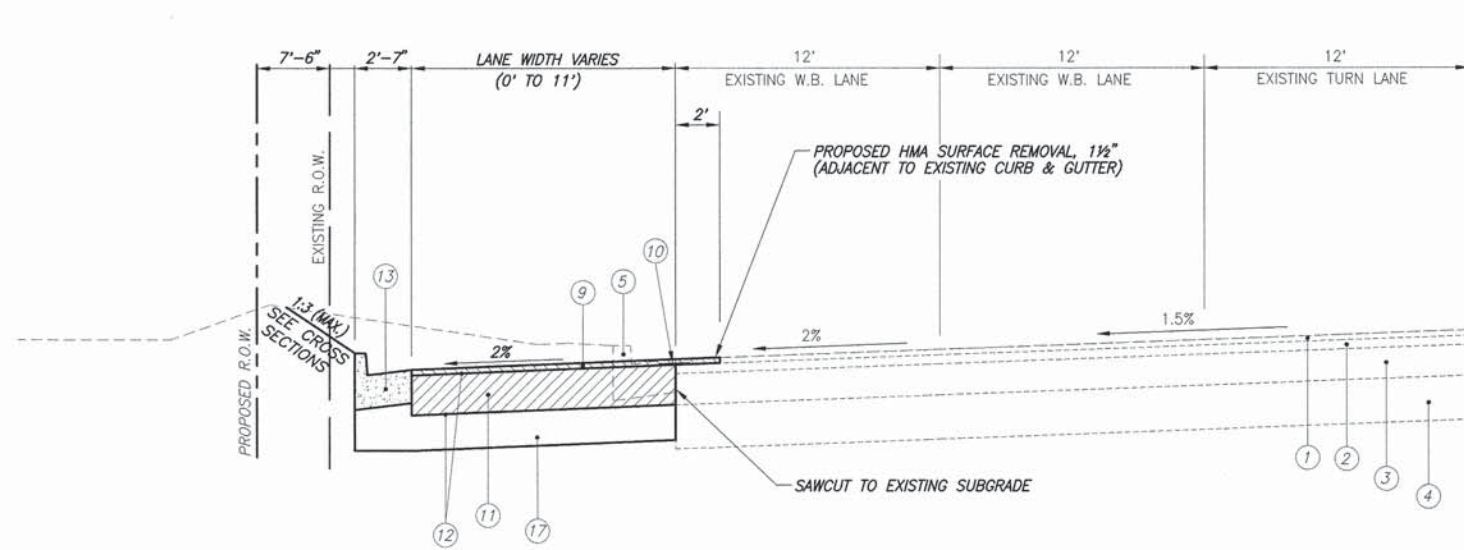


EXISTING TYPICAL SECTION
 N.T.S.
 STA. 26+82.19 TO STA. 29+66.62
 LONG DRIVE

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	6
FEDERAL AID PROJECT		CONTRACT 97571		

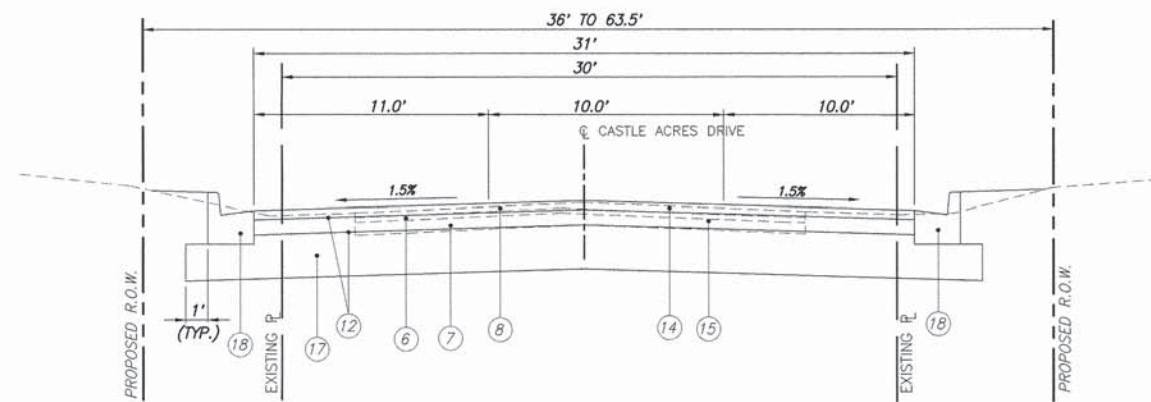
LEGEND

- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE (1½")
- ② EXISTING HOT-MIX ASPHALT BINDER COURSE (2½")
- ③ EXISTING BITUMINOUS BASE COURSE (8½")
- ④ EXISTING LIME MODIFIED SOIL (12")
- ⑤ EXISTING CURB AND GUTTER TO BE REMOVED
- ⑥ EXISTING OIL AND CHIP PAVEMENT (±3")
- ⑦ EXISTING AGGREGATE BASE (±6")
- ⑧ EXISTING HOT-MIX ASPHALT RESURFACING (±3")
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
- ⑩ PROPOSED STRIP REFLECTIVE CRACK CONTROL
- ⑪ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL19.0, N70, 11"
- ⑫ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- ⑬ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", NS0, 2"
- ⑮ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL19.0, N70, 4"
- ⑯ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑰ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
- ⑱ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑲ P.C.C. SIDEWALK, 4"



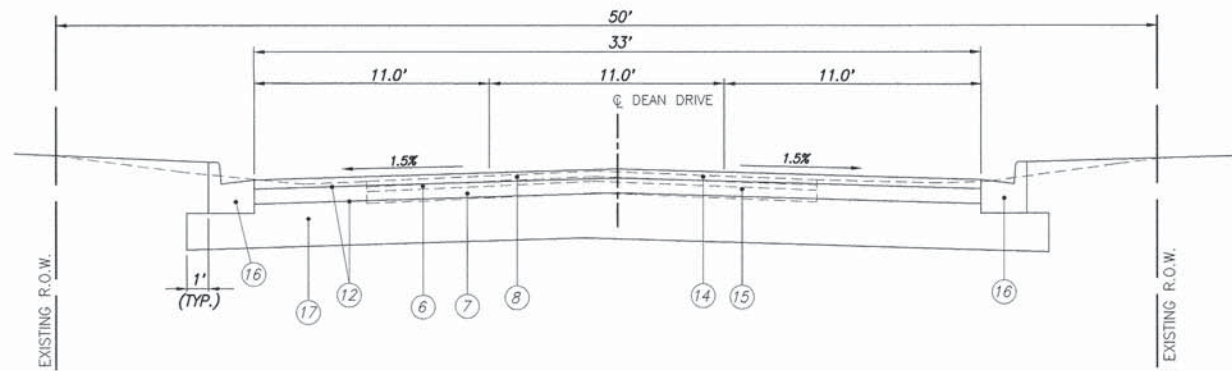
PROPOSED TYPICAL SECTION

N.T.S.
STA. 472+89.26 TO STA. 477+54.82
W HIGHWAY 50



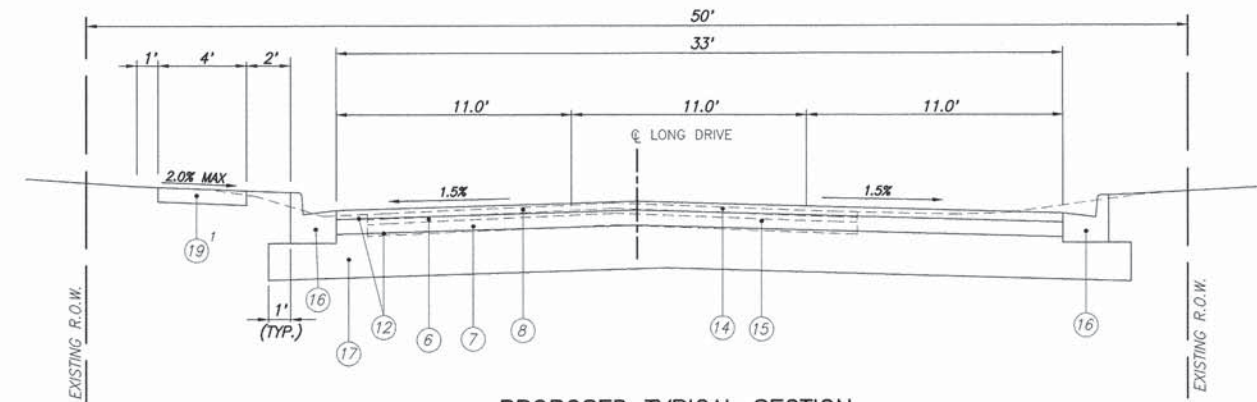
PROPOSED TYPICAL SECTION

N.T.S.
STA. 8+17.83 TO STA. 9+69.48
CASTLE ACRES DRIVE



PROPOSED TYPICAL SECTION

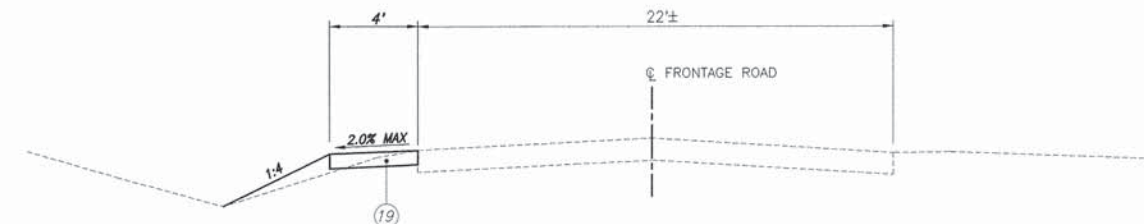
N.T.S.
STA. 17+56.47 TO STA. 19+69.25
DEAN DRIVE



PROPOSED TYPICAL SECTION

N.T.S.
STA. 26+82.19 TO STA. 29+66.62
LONG DRIVE

1 - 4' SIDEWALK LT. STA. 27+30 TO 29+61



PROPOSED TYPICAL SECTION

N.T.S.
STA. 50+27 TO STA. 56+04
FRONTAGE ROAD (SIDEWALK)

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	7
FEDERAL AID PROJECT		CONTRACT 97571		

PAVING SCHEDULE

LOCATION	SUB-BASE GRANULAR MATERIAL, TYPE A 12" SQ YD	HMA BINDER CRSE. IL-19.0, N70, 4" TON	BIT. MATERIALS (PRIME COAT) POUND	HMA SURFACE CRSE., MIX "C", N50, 2" TON	STRIP REFLECTIVE CRACK CONTROL FOOT	HMA BINDER CRSE. IL-19.0, N70, 11" TON	HMA SURFACE CRSE., MIX "D", N70, 1½" TON
CASTLE ACRES DRIVE	660	127	1,403	63	-----	-----	-----
DEAN AVENUE	930	174	1,922	87	-----	-----	-----
LONG DRIVE	1,184	227	2,508	114	-----	-----	-----
HIGHWAY 50	566	-----	1,064	-----	468	265	36
TOTAL	3,340	528	6,897	264	468	265	36

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
CASTLE ACRES DRIVE	380	285	3	+282
DEAN AVENUE	481	361	18	+343
LONG DRIVE	592	444	7	+437
HIGHWAY 50	558	419	0	+419
FRONTAGE ROAD	18	13	14	-1
TOTAL	2,029	1,522	42	+1,480

NOTE: EXISTING OIL & CHIP AND AGGREGATE INCLUDED IN EARTH EXCAVATION.

ENTRANCE / SIDEROAD SCHEDULE

STATION	EXISTING SURFACE	TYPE	"L"	"W"	DRIVEWAY PVM'T REMOVAL	PCC DRIVEWAY PAVEMENT, 6"	AGGREGATE BASE COURSE, TYPE B, 8"	INCIDENTAL HOT-MIX ASPHALT, 3"
			FOOT	FOOT	SO. YD.	SO. YD.	SO. YD.	TON
DEAN AVENUE								
17+70 LT	ASPHALT	C.E.	12.5	25.8	25		36.9	6.2
18+30 LT	ASPHALT	C.E.	8.1	20.7	38		21.4	3.6
18+92 RT	CONCRETE	C.E.	9.1	29.7	62	31.6		
LONG DRIVE								
27+55 RT	GRAVEL	C.E.	9.1	19.7			21.8	3.7
27+70 RT	ASPHALT	C.E.	7.9	11.0	17		11.4	1.9
HIGHWAY 50								
475+23 LT	ASPHALT	C.E.	23.1	31.4	130		90.7	15.3
TOTAL					272	31.6	182.2	30.7

NOTE: PLEASE REFER TO ENTRANCE DETAILS ON SHEETS 31 TO SEE APPLICATION OF THE DIMENSIONS.

CURB AND GUTTER SCHEDULE

LOCATION	C & G TYPE B6.12	C & G TYPE B6.18	C & G TYPE B6.24	CONCRETE CURB TYPE B
	FOOT	FOOT	FOOT	FOOT
CASTLE ACRES				
STA. 8+26.14 LT TO 9+69.48 LT	164			
STA. 8+24.10 RT TO 9+69.48 RT	173			
STA. 10+31.07 RT TO 10+40.93 RT				20
DEAN AVENUE				
STA. 17+56.47 LT TO 19+69.25 LT		238		
STA. 17+58.14 RT TO 19+69.25 RT		232		
STA. 18+74 RT				11
STA. 19+03 RT				14
LONG DRIVE				
STA. 27+75.00 LT TO 29+66.62 LT		206		
STA. 27+30.54 RT TO 29+21.26 RT		200		
STA. 29+43.00 RT TO 29+66.62 RT		40		
HIGHWAY 50				
STA. 472+93.28 LT TO 475+06.68 LT			217	
STA. 475+38.48 LT TO 477+53.57 LT			220	
FRONTAGE ROAD				
STA. 54+35 LT TO 54+65			30	
TOTAL	337	916	467	45

PCC SIDEWALK SCHEDULE

LOCATION	PCC SIDEWALK, 4"	DETECTABLE WARNINGS
	SQ. FT.	SQ. FT.
CASTLE ACRES		
STA. 9+62.50 LT	213	22
STA. 9+62.50 RT	164	24
STA. 10+37.00 LT	82	10
STA. 10+37.00 RT	114	10
DEAN AVENUE		
STA. 19+62 LT	180	22
STA. 19+62 RT	107	24
STA. 20+36 LT	88	12
LONG DRIVE		
STA. 27+70 LT TO 29+61 LT	876	14
FRONTAGE ROAD		
STA. 50+27 LT TO 56+04 RT	2,365	8
TOTAL	4,189	146

PROTECTIVE COAT SCHEDULE

LOCATION	PROTECTIVE COAT AREA
	SQ YD
COMBINATION CURB AND GUTTER, B-6.12	
	59
COMBINATION CURB AND GUTTER, B-6.18	
	212
COMBINATION CURB AND GUTTER, B-6.24	
	134
TOTAL	405

SEEDING / EROSION CONTROL

LOCATION	SEEDING CLASS 1 ACRE	MULCH METHOD 2 ACRE	FERTILIZER NUTRIENTS			TEMPORARY EROSION CONTROL SEEDING POUND	INLET AND PIPE PROTECTION EACH	PERIMETER EROSION BARRIER FOOT
			NITROGEN POUND	PHOSPHORUS POUND	POTASSIUM POUND			
CASTLE ACRES STA. 8+17.83 TO 9+69.48	0.03	0.03	2.7	2.7	2.7	3	7	
DEAN AVENUE STA. 17+56.47 TO 19+69.25	0.03	0.03	2.7	2.7	2.7	3	4	
LONG DRIVE STA. 26+92.20 TO 29+66.62	0.06	0.06	5.4	5.4	5.4	6	7	
FRONTAGE ROAD STA. 50+00.00 TO 55+97.60	0.05	0.05	4.5	4.5	4.5	5	2	
HIGHWAY 50 STA. 472+89.26 TO 477+54.82	0.05	0.05	4.5	4.5	4.5	5	6	413
TOTAL	0.2	0.2	19.8	19.8	19.8	22	26	413

TRENCH BACKFILL SCHEDULE

LOCATION	TRENCH BACKFILL
	CU YD
STORM SEWER SCHEDULE	
	46
DRAINAGE REMOVAL SCHEDULE	
	11
HANDHOLE REMOVAL (WAL MART ENTRANCE)	
	4
TOTAL	61

11/15/2016 10:27:16 AM - Proj: 03 - Engineering - Improvement/Highway Congestion - SCHORR, K. - 03/15/2016 10:27:16 AM - P:\03 - 16

PAVEMENT MARKING SCHEDULE

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	8
FEDERAL AID PROJECT		CONTRACT 97571		

LOCATION	TYPE	THERMOPLASTIC PAVEMENT MARKINGS					POLYUREA PAVEMENT MARKINGS		RAISED REFL. PAVEMENT MKRS ONE-WAY CRYSTAL	RAISED REFL. PAVEMENT MKRS TWO-WAY CRYSTAL	RAISED PAVEMENT MARKING REMOVAL EACH	PAVEMENT MARKING REMOVAL SQ. FT.	SHORT TERM PAVEMENT MARKING
		4" YELLOW	4" WHITE	12" WHITE	24" WHITE	LETTERS & SYMBOLS	8" WHITE	12" WHITE					
		FOOT	FOOT	FOOT	FOOT	SQ. FT.	FOOT	FOOT	EACH	EACH	EACH	SQ. FT.	FOOT
CASTLE ACRES/HIGHWAY 50 STATION 8+17.83 TO 9+69.48	DOUBLE CENTER LINE	260							3	1	5		
	LANE LINE		225									39	
	STOP BAR				106						142		
	CROSS WALK			598							226		
	ARROWS					93.6							
DEAN AVENUE/HIGHWAY 50 STATION 17+56.47 TO 19+69.25	DOUBLE CENTER LINE	396						2	1	4			
	LANE LINE		190									52	
	STOP BAR				68						84		
	CROSS WALK			246							65		
	ARROWS					62.4							
LONG DRIVE/HIGHWAY 50 STATION 26+92.20 TO 29+66.62	DOUBLE CENTER LINE	502						3		3			
	LANE LINE		190									52	
	STOP BAR				28						40		
	CROSS WALK			96									
	ARROWS					46.8							
FRONTAGE ROAD/ LONG DRIVE STATION 50+00.00 TO 55+97.60	LANE LINE		542										
	STOP BAR				10								
HIGHWAY 50 (RIGHT TURN LANE) STATION 472+89.26 TO 477+54.82	SKIP DASH 2' - 6'		200					7					
	LANE LINE		260									95	
	ARROWS					46.8							
	CHANNELIZATION						30						
	DIAGONALS								21				
TOTAL		1158	1605	940	212	249.6	30	21	15	2	12	557	238

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	UNITS
LONG DRIVE	
STA. 28+44.72 RT	1 @ 36"
STA. 28+70.36 RT	1 @ 30"
TOTAL	66

COMBINATION CURB AND GUTTER REMOVAL

LOCATION	LENGTH FOOT
CASTLE ACRES	
STA. 9+53.85 LT TO 9+69.48 LT	40
STA. 9+53.85 RT TO 9+69.48 RT	43
DEAN AVENUE	
STA. 19+40.00 LT TO 19+69.25 LT	60
STA. 19+40.00 RT TO 19+69.25 RT	60
LONG DRIVE	
STA. 29+13.58 LT TO 29+66.62 LT	68
STA. 29+47.75 RT TO 29+66.62 RT	25
HIGHWAY 50	
STA. 472+89.26 LT TO 475+07.84 LT	223
STA. 475+07.84 LT TO 477+54.82 LT	220
FRONTAGE ROAD	
STA. 54+35 LT TO 54+65	30
TOTAL	769

SIDEWALK REMOVAL

LOCATION	AREA SQ. FT.
CASTLE ACRES	
STA. 9+62.50 LT	193
STA. 9+62.50 RT	174
STA. 10+37.00 LT	82
STA. 10+37.00 RT	114
DEAN AVENUE	
STA. 19+62.00 LT	160
STA. 19+62.00 RT	172
STA. 20+36.00 LT	75
STA. 28+27.00 RT	48
LONG DRIVE	
STA. 29+45.00 LT TO 29+60.00 LT	147
TOTAL	1,165

MISCELLANEOUS REMOVAL

LOCATION	PAVEMENT REMOVAL SQ. YD.	FENCE REMOVAL FOOT	HMA SURFACE REMOVAL, 1 1/2" SQ. YD.	CURB REMOVAL FOOT
CASTLE ACRES				
STA. 8+17.83 TO 9+69.48	507			
STA. 10+31.04 TO 10+40.93				14
DEAN AVENUE				
STA. 17+56.47 TO 19+69.25	519			
STA. 18+92.00 RT				56
LONG DRIVE				
STA. 26+92.20 TO 29+66.62	868			
HIGHWAY 50				
STA. 472+90.00 LT TO 474+98.40 LT		275		
STA. 475+53.60 LT TO 476+36.00 LT		94		
STA. 472+89.26 LT TO 477+54.82 LT			104	
TOTAL	1,894	369	104	70

MISCELLANEOUS UTILITY ADJUSTMENTS

EXISTING LOCATION	COMMENT
CASTLE ACRES DRIVE STATION 8+17.83 TO 9+69.48	
STA 9+35 RT	* SAN. SEWER LID
STA 9+36 LT	* SAN. SEWER LID
STA 9+38 RT	METER PIT LID
DEAN DRIVE STATION 17+56.47 TO 19+69.25	
19+20 LT	SAN. SEWER M.H. LID
19+31 RT	WATER VALVE BOX
LONG DRIVE STATION 26+92.20 TO 29+66.62	
29+75 LT	INLET ADJUSTMENT
29+13 LT	WATER VALVE BOX
HIGHWAY 50 STATION 472+89.26 TO 477+54.82	
474+30 LT	WATER VALVE BOX
FRONTAGE ROAD STATION 50+00.00 TO 55+97.60	
54+11 LT	TELEPHONE M.H. LID

* - MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME AND GRATE (SEE SPECIAL PROVISIONS).

MAILBOX REMOVAL AND RELOCATION SCHEDULE *

EXISTING LOCATION	SIDE	MAILBOX PROPOSED OFFSET FOOT
CASTLE ACRES DRIVE STATION 8+17.83 TO 9+69.48		
STA 9+12	LT	19.0'
DEAN DRIVE STATION 17+56.47 TO 19+69.25		
STA 17+92	RT	16.0'
STA 18+25	RT	18.0'
STA 18+26	RT	18.0'

* - INCLUDED IN COST OF CONTRACT ACCORDING ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS

DRAINAGE REMOVAL SCHEDULE

LOCATION	DESCRIPTION	PIPE CULVERT REMOVAL, 10" FOOT	PIPE CULVERT REMOVAL, 12" FOOT	STORM SEWER REMOVAL, 12" FOOT	INLET REMOVAL EACH	TRENCH BACKFILL CY
DEAN AVENUE						
STA. 17+70 LT		28				3.8
STA. 18+30 LT			30			3.3
STA. 19+38 LT					1	
STA. 19+39 RT					1	
LONG DRIVE						
STA. 27+62 RT			33			2.5
STA. 28+27 RT			5			0.7
STA. 28+66 LT TO 29+23 LT				58		
HIGHWAY 50						
STA. 475+46.90 LT				8	1	1.0
TOTAL		28	68	66	3	11.3

NOTE: THE PAY ITEM "PIPE CULVERT REMOVAL" COVERS ALL SIZES OF CULVERT REMOVAL.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	9
FEDERAL AID PROJECT		CONTRACT 97571		

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE

CASTLE ACRES					
PT	LOCATION STATION / OFFSET	DESCRIPTION	TOP OF MASONRY	EOP	INVERTS
(1) 1	9+00.37 19.30'R	INLETS, TYPE A, TYPE 8 GRATE	558.96		556.67 N
2	9+29.17 19.25'R	INLETS, SPECIAL, NO. 1 (3'X3')	559.00		556.38 S 556.28 W
3	9+33.65 18.05'L	INLETS, TYPE A, TYPE 11 FRAME & GRATE		558.42	555.25 E 555.15 N
4	9+46.53 22.17'L	INLETS, TYPE A, TYPE 11 FRAME & GRATE		558.22	554.78 S 554.68 NW
5	9+55.29 26.65'L	INLETS, TYPE A, TYPE 11 FRAME & GRATE		558.00	554.41 SE 554.31 NW
6	9+67.54 46.13'L	EXISTING INLET		557.66	553.87 SE
6B	9+68.67 46.26'R	INLETS TO BE ADJUSTED W/NEW TYPE 1 FRAME AND OPEN LID		558.69	554.91 WE
DEAN DRIVE					
PT	LOCATION STATION / OFFSET	DESCRIPTION	TOP OF MASONRY	EOP	INVERTS
7	17+48.24 15.67'L	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"			558.82 N
8	18+02.78 14.19'L	INLETS, TYPE A, TYPE 3 FRAME AND GRATE		560.61	558.00 S 557.90 N 559.00 W
9	18+78.69 16.50'L	MANHOLE, TYPE A-4' DIA., TYPE 3 FRAME & GRATE*		560.11	557.50 S 557.40 N 558.40 W
10	19+37.70 18.02'L	MANHOLE, TYPE A-4' DIA., TYPE 3 FRAME & GRATE*		559.68	557.02 S 556.92 E 556.92 W
11	19+38.85 18.36'R	MANHOLE, TYPE A-4' DIA., TYPE 3 FRAME & GRATE*		559.78	556.15 W 556.15 NE 556.15 S
12	19+67.37 45.62'R	INLETS TO BE ADJUSTED W/NEW TYPE 1 FRAME AND OPEN LID		559.69	555.90 SW
WEST HIGHWAY 50 RIGHT TURN LANE					
PT	LOCATION STATION / OFFSET	DESCRIPTION	TOP OF MASONRY	EOP	INVERTS
13	473+33.59 42.30'L	INLETS, TYPE A, TYPE 3 FRAME & GRATE		558.02	555.52 S
14	473+33.72 31.48'L	INLET TO BE ADJUSTED W/NEW TYPE 1 FRAME AND CLOSED LID		558.24	554.34 N 554.34 W 554.34 E
15	474+86.85 42.58'L	INLETS, TYPE A, TYPE 3 FRAME & GRATE		557.00	554.50 S
16	474+86.97 31.36'L	INLET TO BE ADJUSTED W/NEW TYPE 1 FRAME AND CLOSED LID		557.22	553.41 N 552.66 W 552.66 E
17	475+46.86 43.59'L	INLETS, TYPE A, TYPE 3 FRAME & GRATE		557.18	555.00 S
18	475+46.61 33.45'L	CONNECTION TO EXISTING 36" RCCP			553.35 N
19	476+46.94 39.66'L	INLETS, TYPE A, TYPE 3 FRAME & GRATE		555.66	552.08 S
20	476+47.22 33.52'L	INLET TO BE ADJUSTED W/NEW TYPE 1 FRAME AND CLOSED LID		555.78	552.00 N 551.22 W 551.22 E
LONG DRIVE					
PT	LOCATION STATION / OFFSET	DESCRIPTION	TOP OF MASONRY	EOP	INVERTS
(1) 21	27+33.96 18.28'L	INLETS, TYPE A, TYPE 8 GRATE		554.00	551.83 E
22	27+39.44 19.84'R	INLETS, TYPE B, TYPE 8 GRATE		553.80	551.35 W 551.07 N
(1) 23	27+99.65 20.30'R	INLETS, SPECIAL, NO.1 (3'X3')		554.40	550.71 S 550.66 N
24	28+94.68 20.34'R	MANHOLES, TYPE A, 4'-DIA., TYPE 3 FRAME & GRATE*		552.93	550.12 S 550.10 W 550.07 N
25	28+94.70 14.45'L	INLETS, TYPE A, TYPE 3 FRAME & GRATE		552.98	550.50 E
26	29+56.37 37.03'R	EXISTING INLET		552.51	549.70 S
FRONTAGE ROAD					
PT	LOCATION STATION / OFFSET	DESCRIPTION	TOP OF MASONRY	EOP	INVERTS
(1) 27	55+51.25 16.75'L	INLETS, SPECIAL NO. 1 (3'X3')		547.40	544.31 NW 544.31 E
28	55+76.33 6.55'L	INLETS, TYPE A, TYPE 8 GRATE		547.33	544.91 E
29	55+90.61 7.76'L	EXISTING INLET		546.96	544.62 W

STORM SEWER SCHEDULE

CASTLE ACRES										
PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL (CY)	
1	1	2	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	29'	556.67	556.38	1.00%	1.9	
2	2	3	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	38'	556.28	555.25	2.75%	2.5	
3	3	4	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	14'	555.15	554.78	2.75%	1.8	
4	4	5	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	10'	554.68	554.41	2.75%	1.3	
5	5	6	STORM SEWERS, RUBBER GASKET, CLASS B, TYPE 1 12"	12"	23'	553.98	553.87	0.50%	3.3	
DEAN DRIVE										
PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL (CY)	
6	7	8	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	55'	558.82	558.00	1.50%	3.6	
7	8	9	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	76'	557.90	557.50	0.53%	5.0	
8	9	10	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	59'	557.40	557.02	0.64%	3.9	
9B	10	11	EXISTING 15" RCCP							
10B	11	12	EXISTING 18" RCCP							
9A	EXISTING INLET	10	EXISTING 12" RCCP							
10A	EXISTING INLET	11	EXISTING 12" PVC							
WEST HIGHWAY 50 RIGHT TURN LANE										
PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL (CY)	
11	13	14	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	11'	555.52	554.34	10.90%	0.7	
12	15	16	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	11'	554.50	553.41	9.71%	0.7	
13	17	18	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	12'	555.00	553.15	16.07%	0.8	
14	19	20	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	6'	552.08	552.00	1.30%	0.8	
11A	EXISTING INLET	14	EXISTING 30" RCCP							
12A	14	16	EXISTING 30" RCCP							
13A	16	20	EXISTING 30" RCCP							
14A	20	EXISTING INLET	EXISTING 30" RCCP							
LONG DRIVE										
PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL (CY)	
15	21	22	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	39'	551.83	551.35	1.25%	2.6	
16	22	23	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	15"	60'	551.07	550.71	0.60%	3.6	
17	23	24	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	15"	95'	550.66	550.12	0.57%	5.8	
18	25	24	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	35'	550.50	550.10	1.15%	2.3	
19	24	26	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 15"	15"	64'	550.07	549.70	0.58%	3.9	
FRONTAGE ROAD										
PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE	TRENCH BACKFILL (CY)	
20	EXISTING INLET	27	EXISTING 12" RCCP	12"	18'	544.49	544.31	1.00%	0.0	
21	27	EXISTING INLET	EXISTING 12" RCCP	12"	74'	544.31	543.57	1.00%	0.0	
22	28	29	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	12"	14'	544.91	544.62	2.00%	0.9	

OPEN THROAT STRUCTURES

PT	LOCATION STATION / OFFSET	DESCRIPTION	* - HEIGHT OF OPENING FROM TOP OF LID
CASTLE ACRES			
2	9+29.17 19.25'R	INLET SPECIAL, NO. 1 (3'X3')	10"
LONG DRIVE			
23	27+99.65 20.30'R	INLET SPECIAL, NO. 1 (3'X3')	1@10" (W), 1@12" (E)
FRONTAGE ROAD			
27	55+51.25 16.75'L	INLET SPECIAL, NO. 1 (3'X3')	10"

(1) - SEE OPEN THROAT SCHEDULE FOR THROAT ELEVATIONS

(2) - CLASS B STORM SEWER SHALL BE PVC

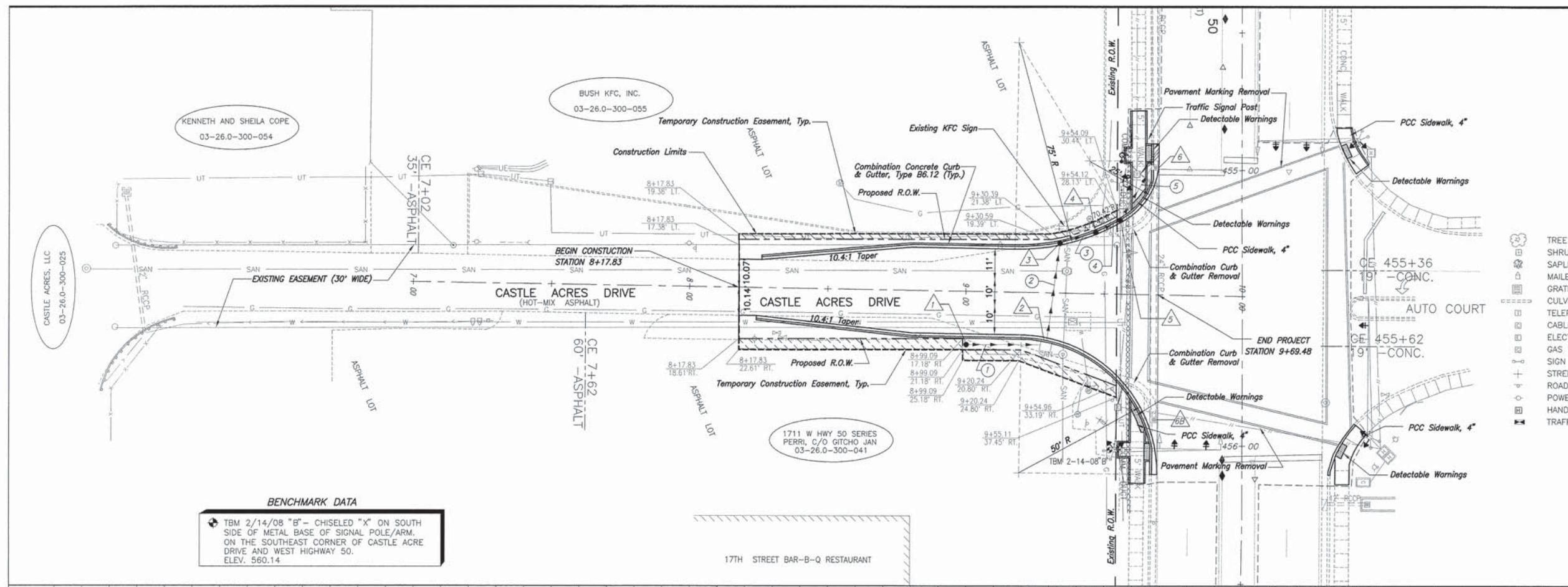
(*) - DENOTES FLAT SLAB TOP

NOTE: OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE.

PLEASE REFER TO MISCELLANEOUS DETAIL SHEETS 32 FOR DIMENSIONS OF INLET SPECIAL, TYPE SPECIFIED.

PIPE LENGTHS AND SLOPES ARE CALCULATED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. ACTUAL PAYMENT WILL BE IN ACCORDANCE WITH SECTION 505.09 OF THE STANDARD SPECIFICATIONS.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	10
FEDERAL AID PROJECT		CONTRACT 97571		



LEGEND

	TREE		STORM SEWER MANHOLE
	SHRUB		GUY WIRE
	SAPLING		WATER METER
	MAILBOX		WATER VALVE
	GRATED STORM INLET		WARNING POST
	CULVERT		FENCE
	TELEPHONE PEDESTAL		SWALE FLOWLINE
	CABLE TV PEDESTAL		EDGE OF PAVEMENT
	ELECTRIC PEDESTAL		OVERHEAD ELECTRIC
	GAS VALVE		UNDERGROUND ELECTRIC
	SIGN		UNDERGROUND FIBER OPTIC
	STREET SIGN		UNDERGROUND TELEPHONE
	ROADWAY/TRAFFIC SIGN		UNDERGROUND GAS MAIN
	POWER POLE		WATER MAIN
	HANDHOLE		SANITARY SEWER
	TRAFFIC SIGNAL JUNCTION BOX		PROPOSED STORM INLET
			PROPOSED FLOWLINE

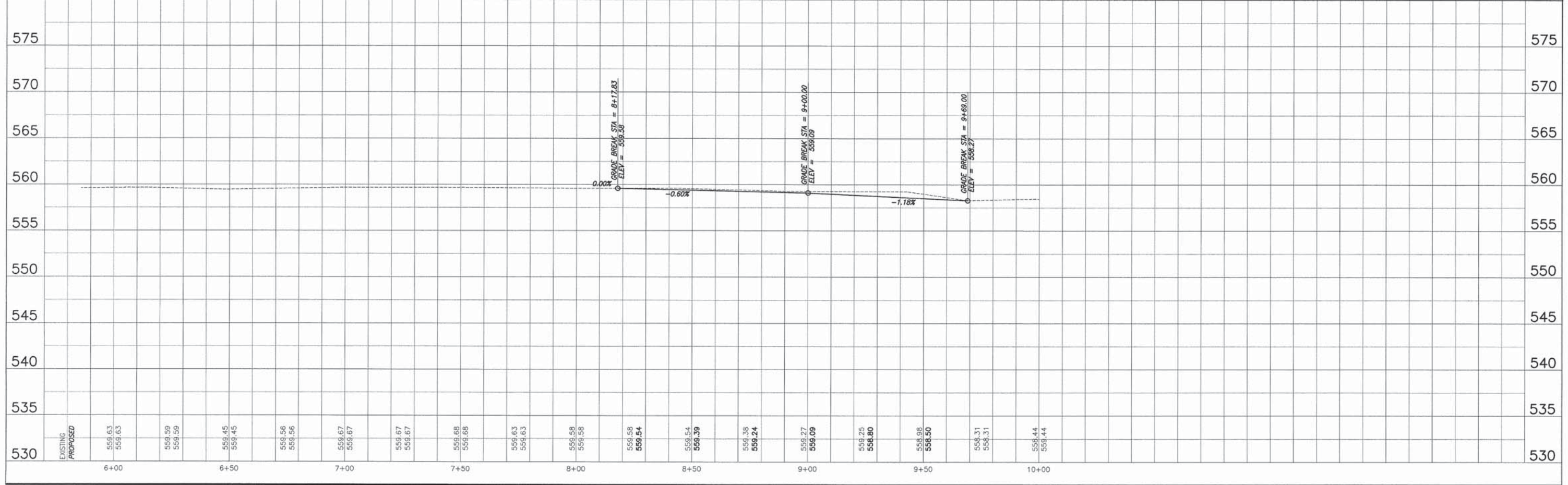
BENCHMARK DATA

◆ TBM 2/14/08 "B" - CHISELED "X" ON SOUTH SIDE OF METAL BASE OF SIGNAL POLE/ARM, ON THE SOUTHEAST CORNER OF CASTLE ACRE DRIVE AND WEST HIGHWAY 50. ELEV. 560.14

BENCHMARK DATA

◆ TBM 2-14-08 "B" - CHISELED "X" ON SOUTH SIDE OF METAL BASE TO SIGNAL ARM ON SOUTHEAST CORNER OF CASTLE DRIVE & HWY. 50. ELEV. 560.14

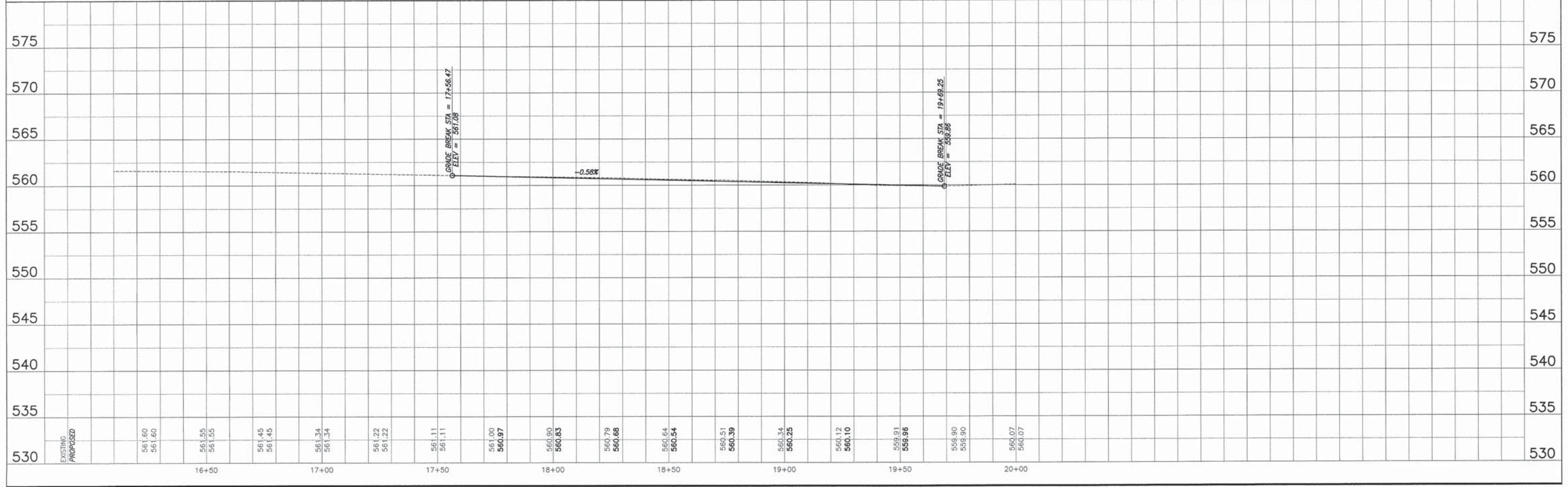
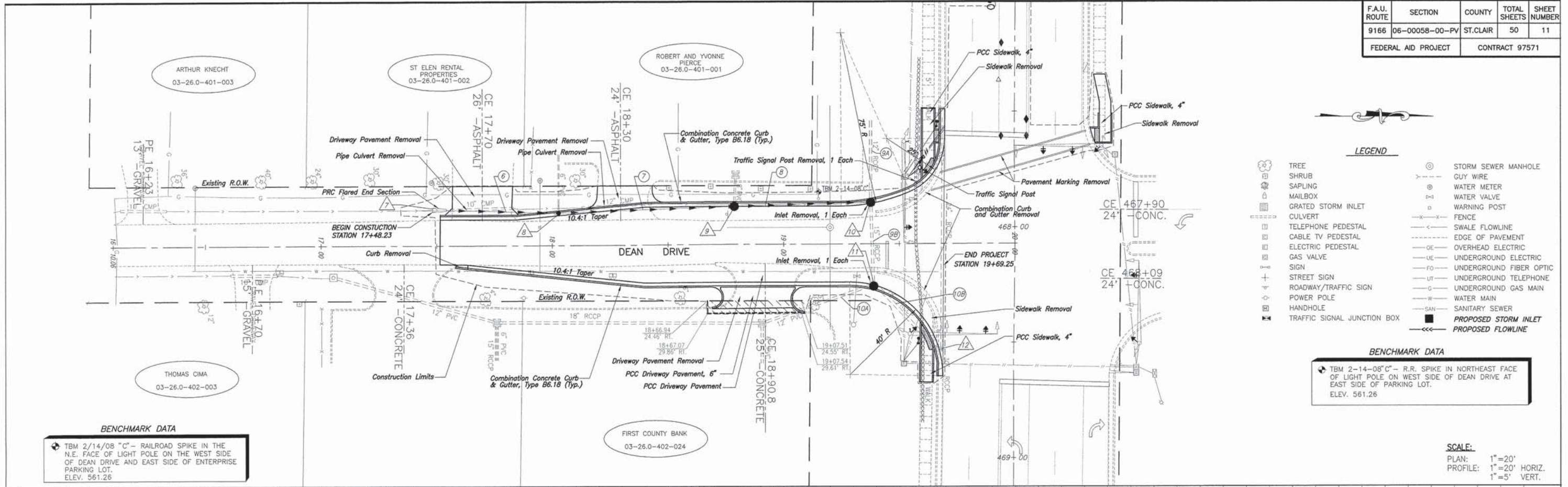
SCALE:
 PLAN: 1"=20'
 PROFILE: 1"=20' HORIZ.
 1"=5' VERT.



ROADWAY PLAN AND PROFILE HIGHWAY 50 CONGESTION IMPROVEMENTS SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS

4/10/2018 - 2:17:48 PM - Proj: 13 - Chicago Bar - 10/20/2015 - 10/20/2015 3:52:21 PM - 10/20/2015

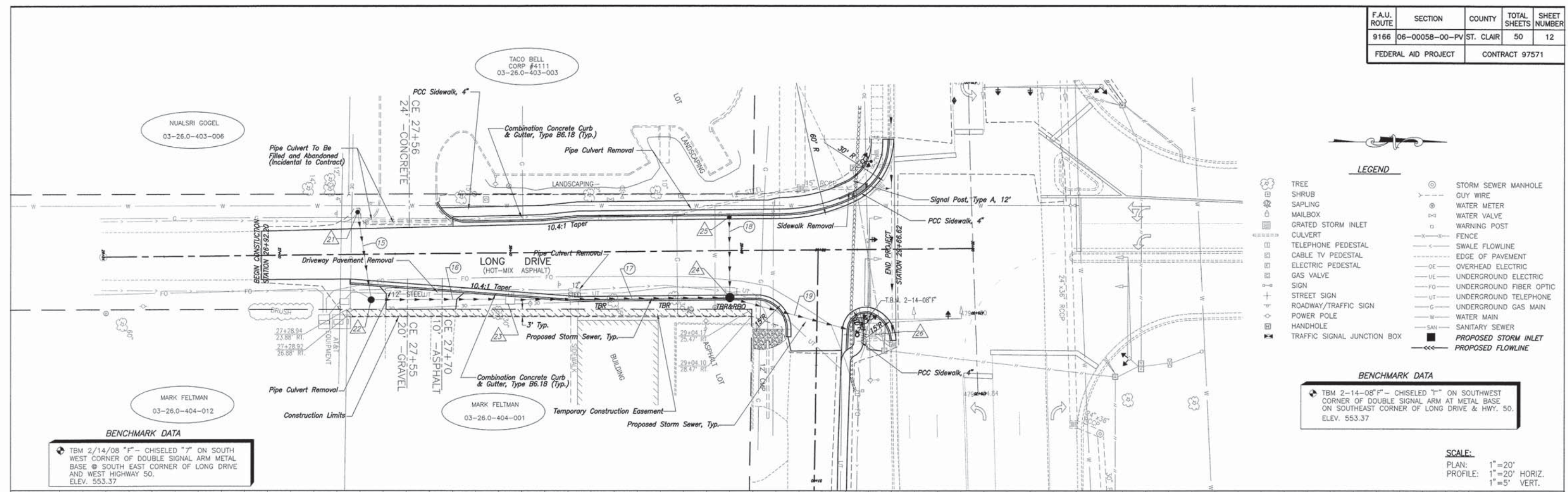
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	11
FEDERAL AID PROJECT		CONTRACT 97571		



ROADWAY PLAN AND PROFILE HIGHWAY 50 CONGESTION IMPROVEMENTS SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS

4/20/08 - ST. CLAIR COUNTY, ILLINOIS - PROJECT: HIGHWAY 50 CONGESTION IMPROVEMENTS - SHEET: 11 OF 50

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	12
FEDERAL AID PROJECT		CONTRACT 97571		



- LEGEND**
- ☺ TREE
 - ☻ SHRUB
 - ☼ SAPLING
 - ✉ MAILBOX
 - ☒ GRATED STORM INLET
 - ☐ CULVERT
 - ☎ TELEPHONE PEDESTAL
 - ☎ CABLE TV PEDESTAL
 - ☎ ELECTRIC PEDESTAL
 - ☎ GAS VALVE
 - ☎ SIGN
 - ☎ STREET SIGN
 - ☎ ROADWAY/TRAFFIC SIGN
 - ☎ HANDHOLE
 - ☎ TRAFFIC SIGNAL JUNCTION BOX
 - ⊙ STORM SEWER MANHOLE
 - ⊙ GUY WIRE
 - ⊙ WATER METER
 - ⊙ WATER VALVE
 - ⊙ WARNING POST
 - ⊙ FENCE
 - ⊙ SWALE FLOWLINE
 - ⊙ EDGE OF PAVEMENT
 - ⊙ OVERHEAD ELECTRIC
 - ⊙ UNDERGROUND ELECTRIC
 - ⊙ UNDERGROUND FIBER OPTIC
 - ⊙ UNDERGROUND TELEPHONE
 - ⊙ UNDERGROUND GAS MAIN
 - ⊙ WATER MAIN
 - ⊙ SANITARY SEWER
 - ⊙ PROPOSED STORM INLET
 - ⊙ PROPOSED FLOWLINE

BENCHMARK DATA

☛ TBM 2-14-08" F" - CHISELED "T" ON SOUTHWEST CORNER OF DOUBLE SIGNAL ARM AT METAL BASE ON SOUTHEAST CORNER OF LONG DRIVE & HWY. 50. ELEV. 553.37

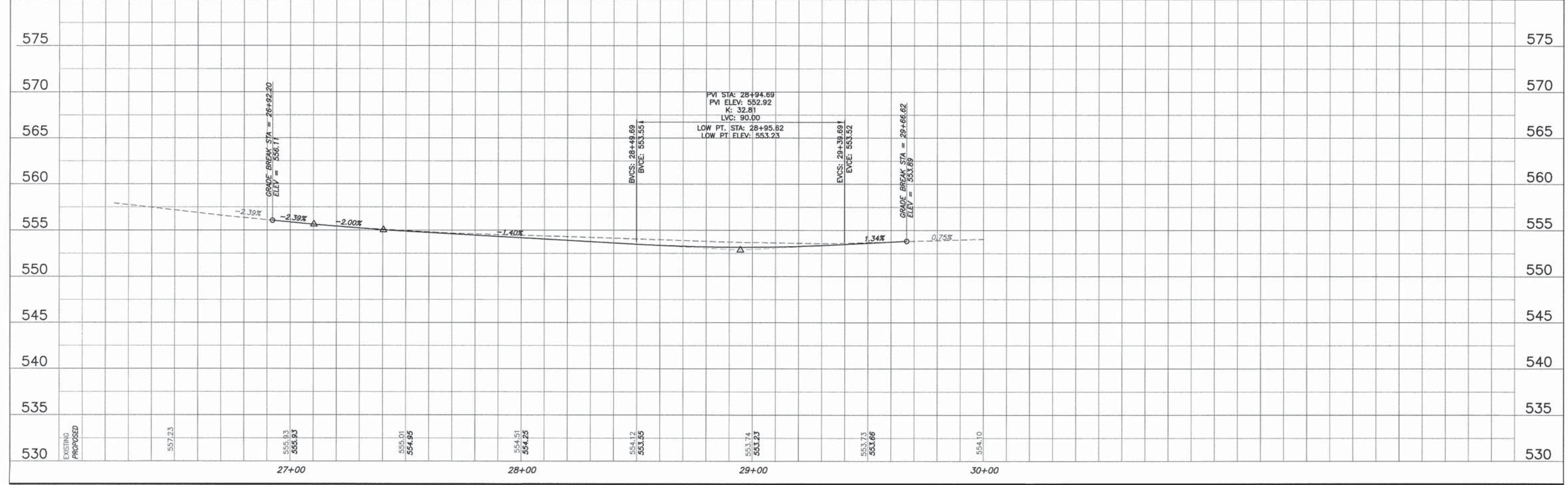
BENCHMARK DATA

☛ TBM 2/14/08" F" - CHISELED "T" ON SOUTH WEST CORNER OF DOUBLE SIGNAL ARM METAL BASE @ SOUTH EAST CORNER OF LONG DRIVE AND WEST HIGHWAY 50. ELEV. 553.37

SCALE:

PLAN: 1" = 20'

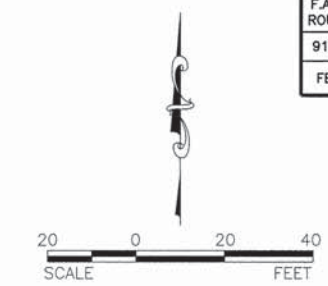
PROFILE: 1" = 20' HORIZ.
1" = 5' VERT.



ROADWAY PLAN AND PROFILE HIGHWAY 50 CONGESTION IMPROVEMENTS SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS

11/10/2008 - 2:15:00 PM - C:\p\proj\97571\06-00058-00-PV\DWG\97571-12.DWG - 12/10/2008 10:30:00 AM - 12/10/2008 10:30:00 AM

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	14
FEDERAL AID PROJECT			CONTRACT 97571	

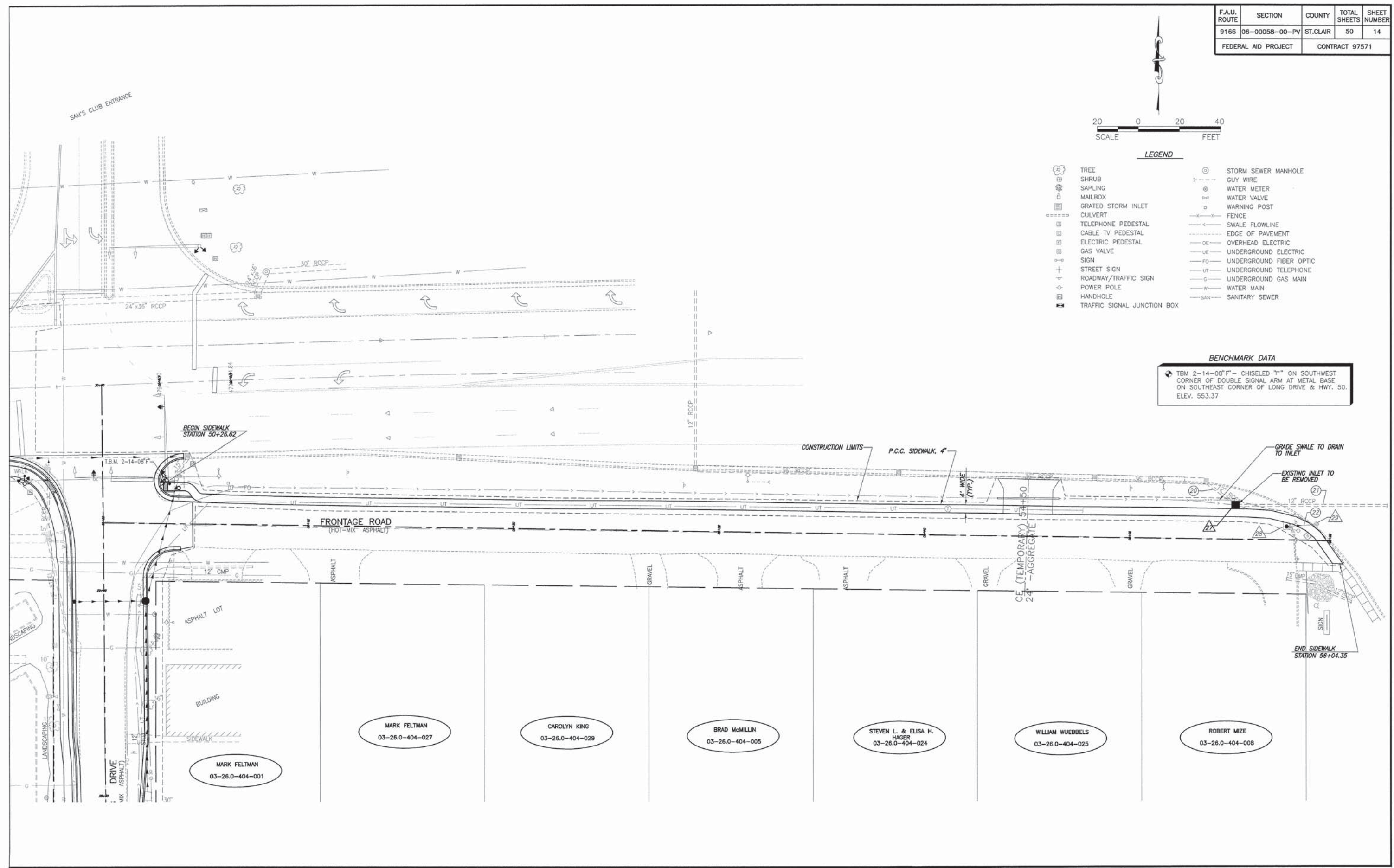


LEGEND

	TREE		STORM SEWER MANHOLE
	SHRUB		GUY WIRE
	SAPLING		WATER METER
	MAILBOX		WATER VALVE
	GRATED STORM INLET		WARNING POST
	CULVERT		FENCE
	TELEPHONE PEDESTAL		SWALE FLOWLINE
	CABLE TV PEDESTAL		EDGE OF PAVEMENT
	ELECTRIC PEDESTAL		OVERHEAD ELECTRIC
	GAS VALVE		UNDERGROUND ELECTRIC
	SIGN		UNDERGROUND FIBER OPTIC
	STREET SIGN		UNDERGROUND TELEPHONE
	ROADWAY/TRAFFIC SIGN		UNDERGROUND GAS MAIN
	POWER POLE		WATER MAIN
	HANDHOLE		SANITARY SEWER
	TRAFFIC SIGNAL JUNCTION BOX		

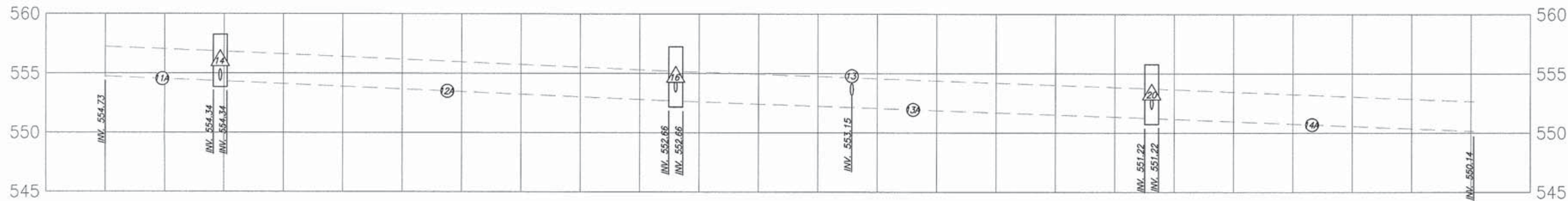
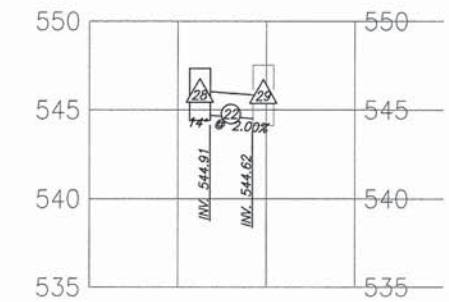
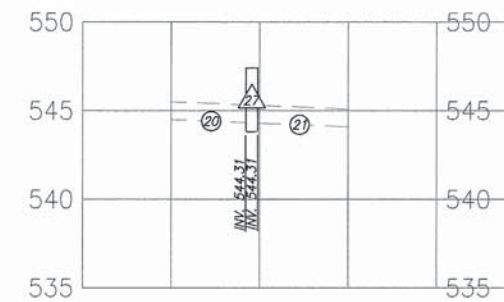
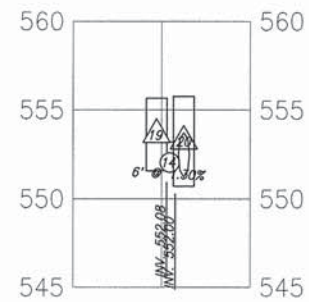
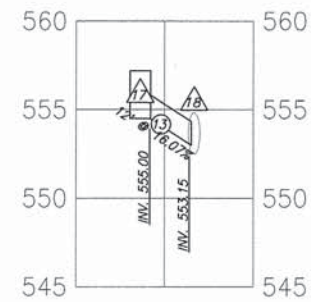
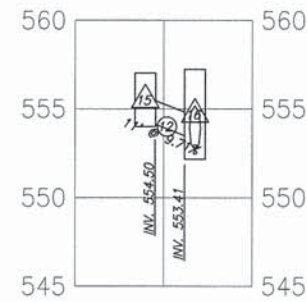
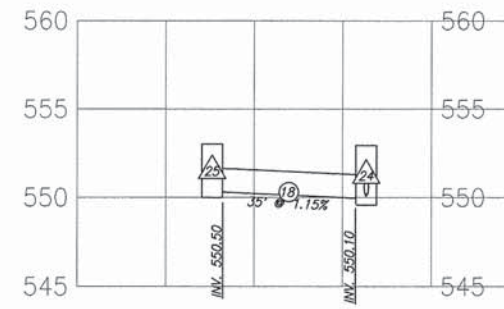
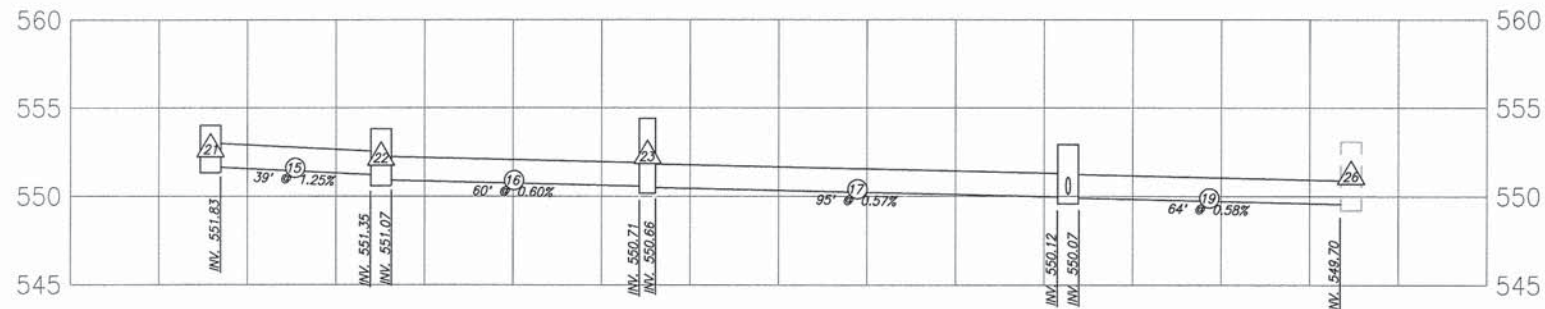
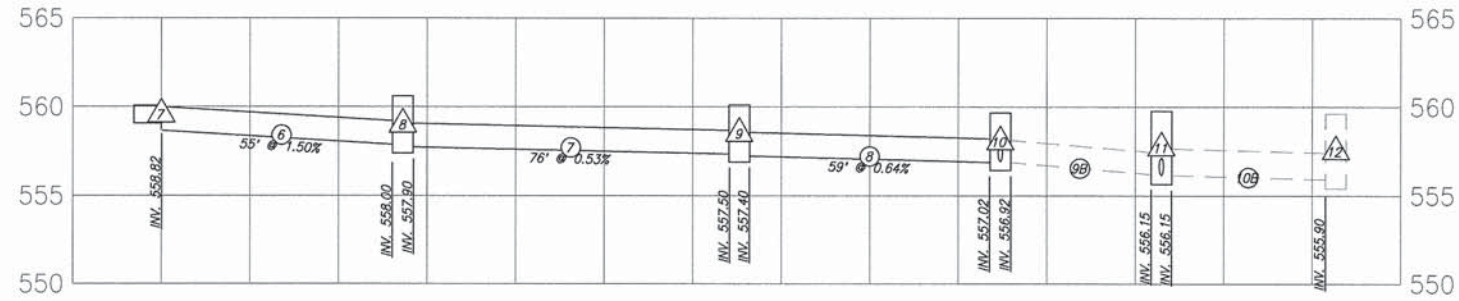
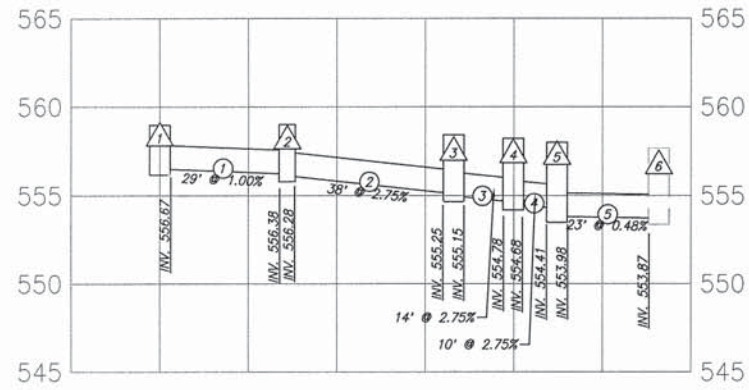
BENCHMARK DATA

TBM 2-14-08" - CHISELED "T" ON SOUTHWEST CORNER OF DOUBLE SIGNAL ARM AT METAL BASE ON SOUTHEAST CORNER OF LONG DRIVE & HWY. 50. ELEV. 553.37

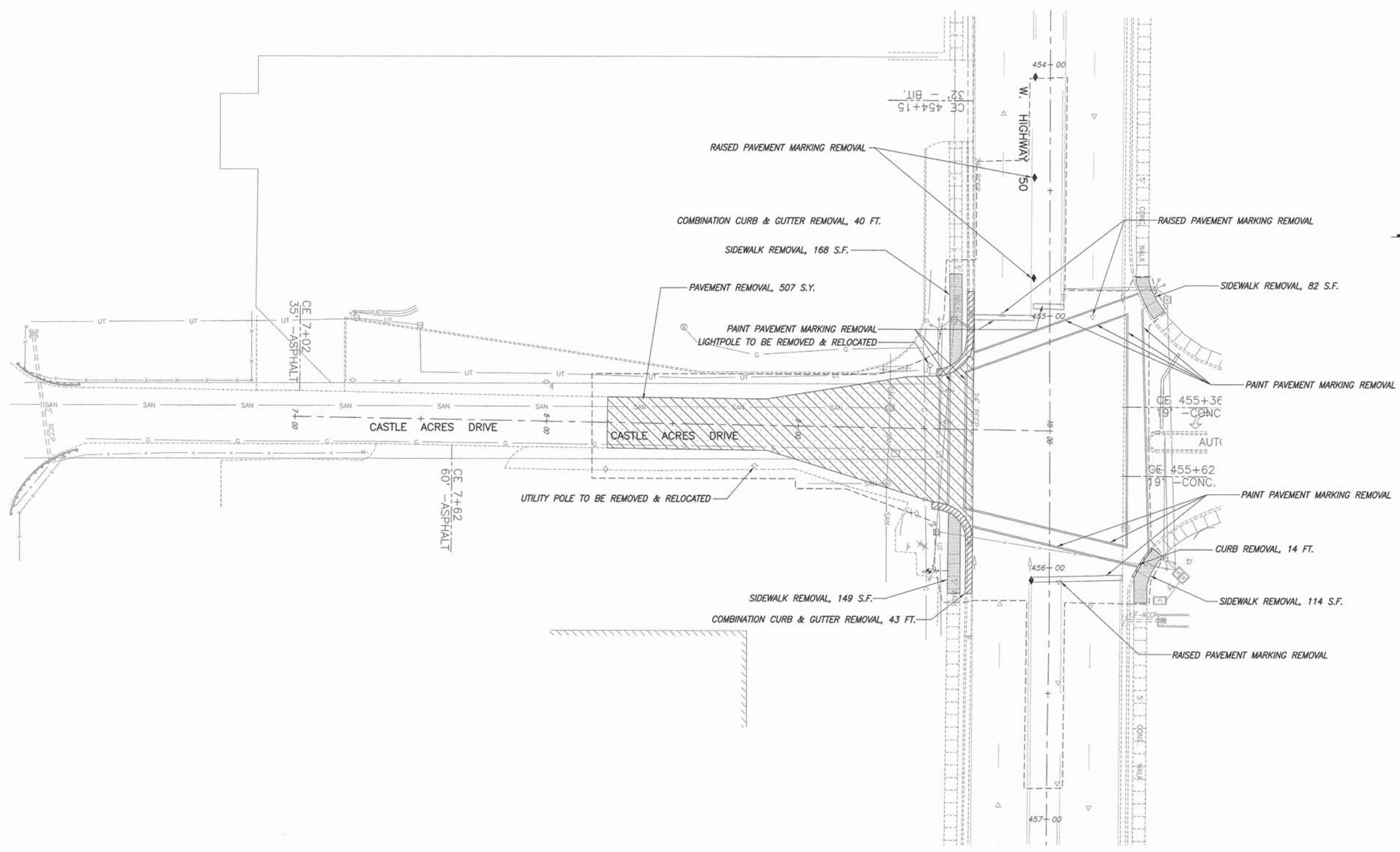
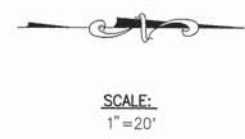


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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	16
FEDERAL AID PROJECT		CONTRACT 97571		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	17
FEDERAL AID PROJECT			CONTRACT 97571	



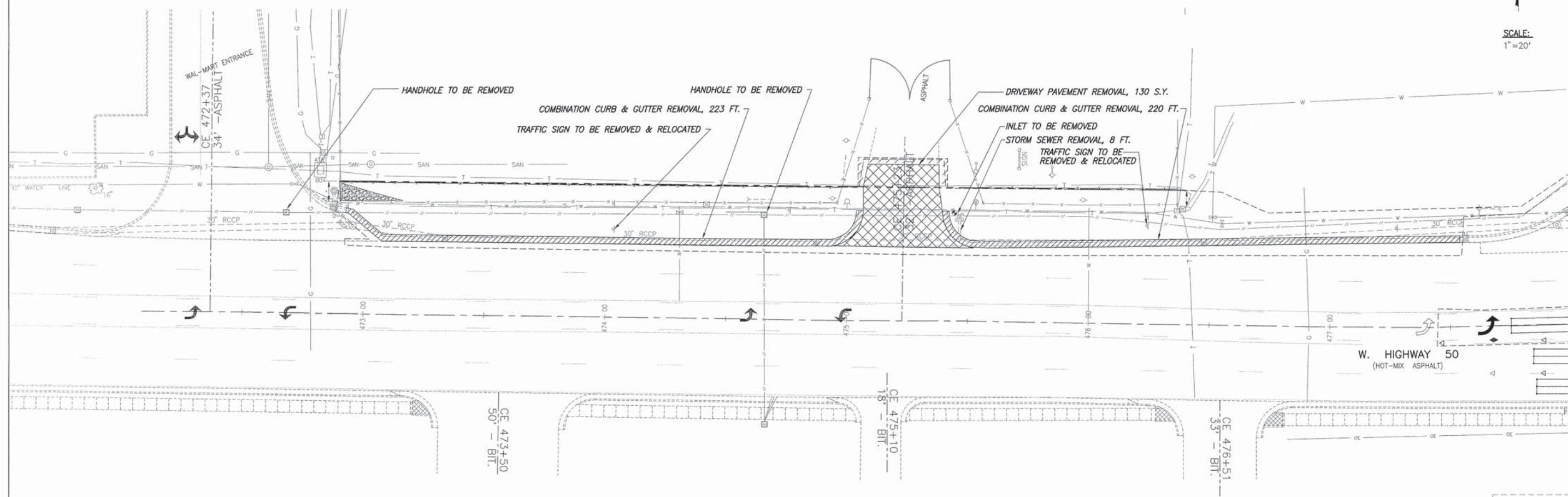
REMOVAL PLAN CASTLE ACRES WEST HIGHWAY 50 CONGESTION IMPROVEMENTS
SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS

P:\M108 - 277.dwg - 17.dwg - 50 Congestion Improvements\06-00058-00-PV.dwg 10/20/2015 1:44:06 PM AutoCAD 2010

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	20
FEDERAL AID PROJECT			CONTRACT 97571	



SCALE:
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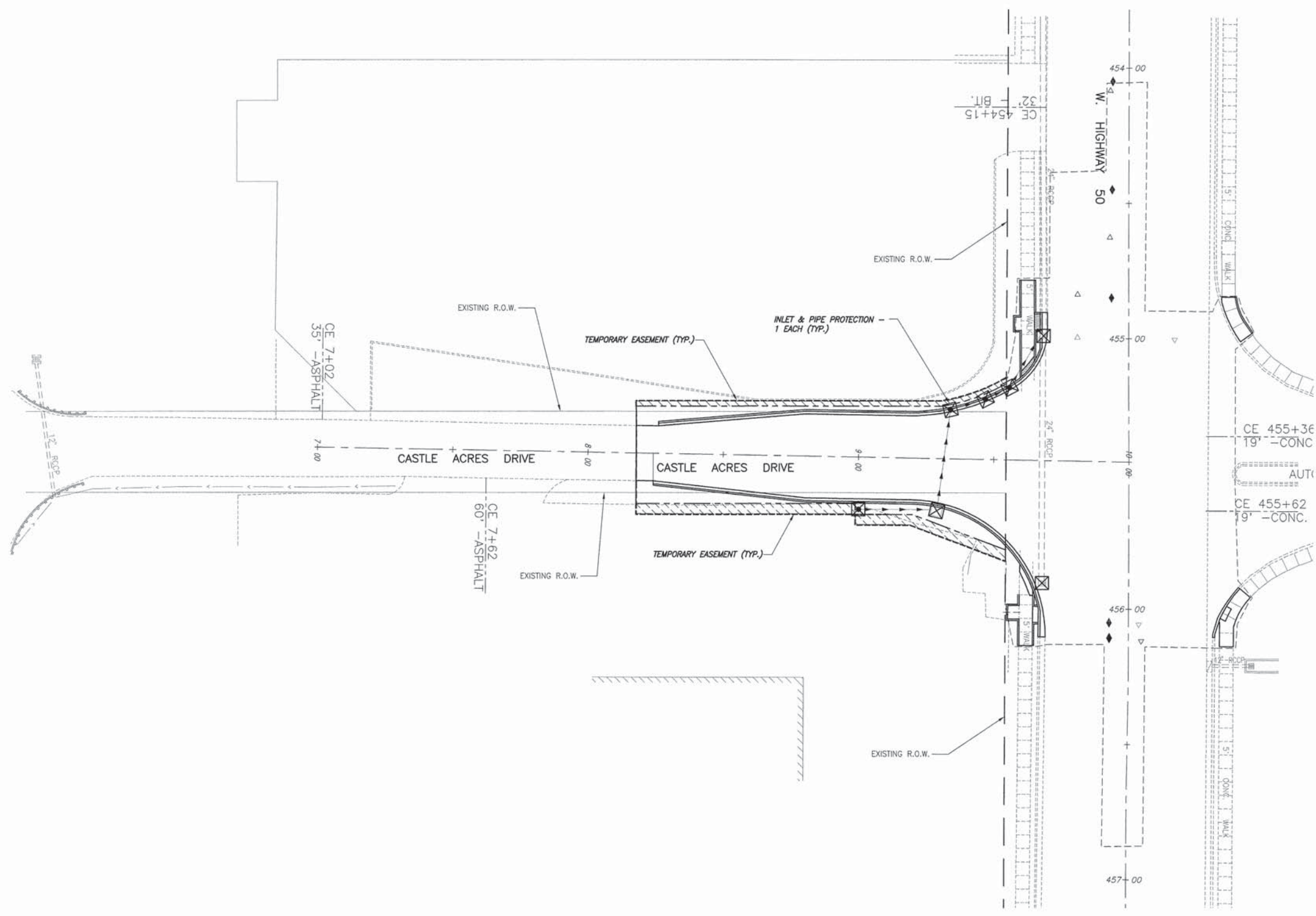


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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
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FEDERAL AID PROJECT		CONTRACT 97571		

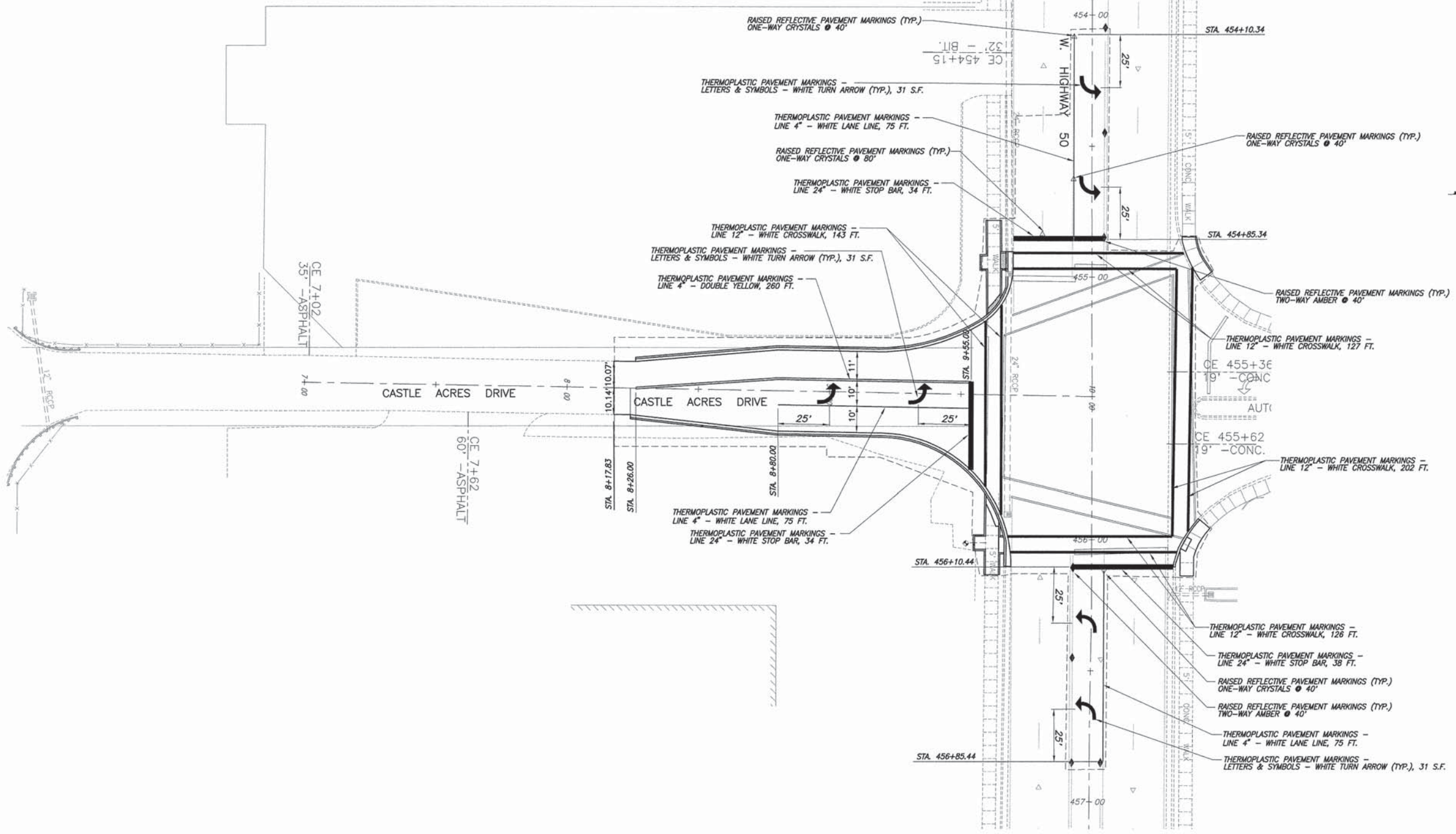


SCALE:
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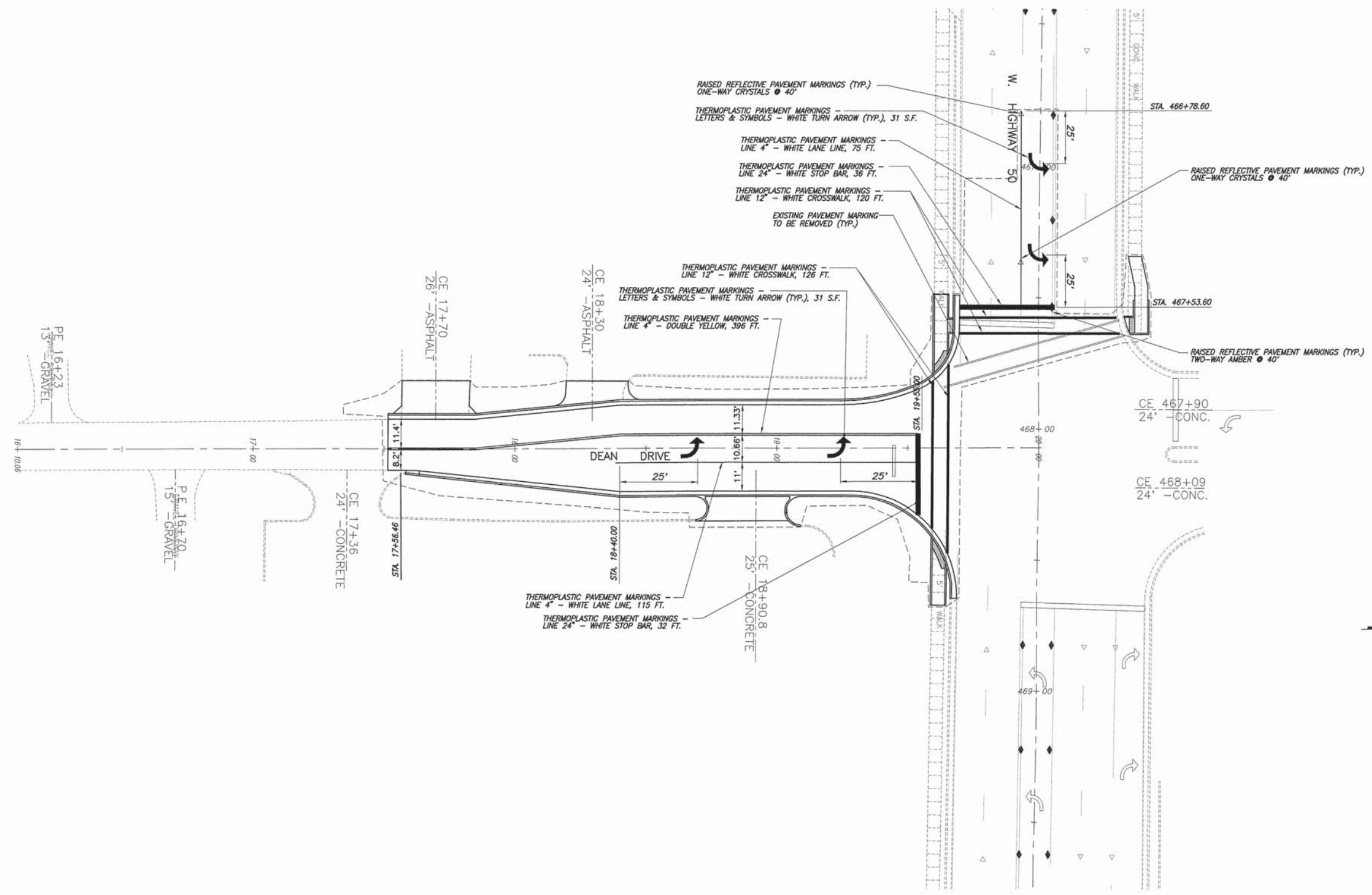
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	25
FEDERAL AID PROJECT		CONTRACT 97571		



SCALE:
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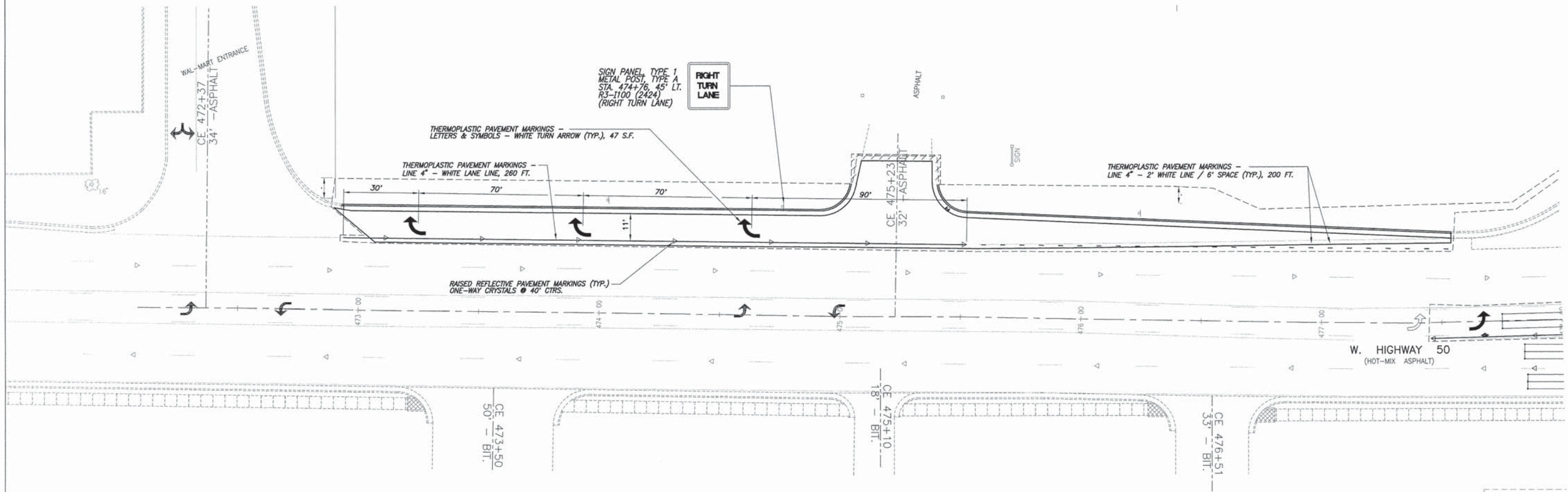
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	26
FEDERAL AID PROJECT		CONTRACT 97571		



SCALE:
1" = 20'

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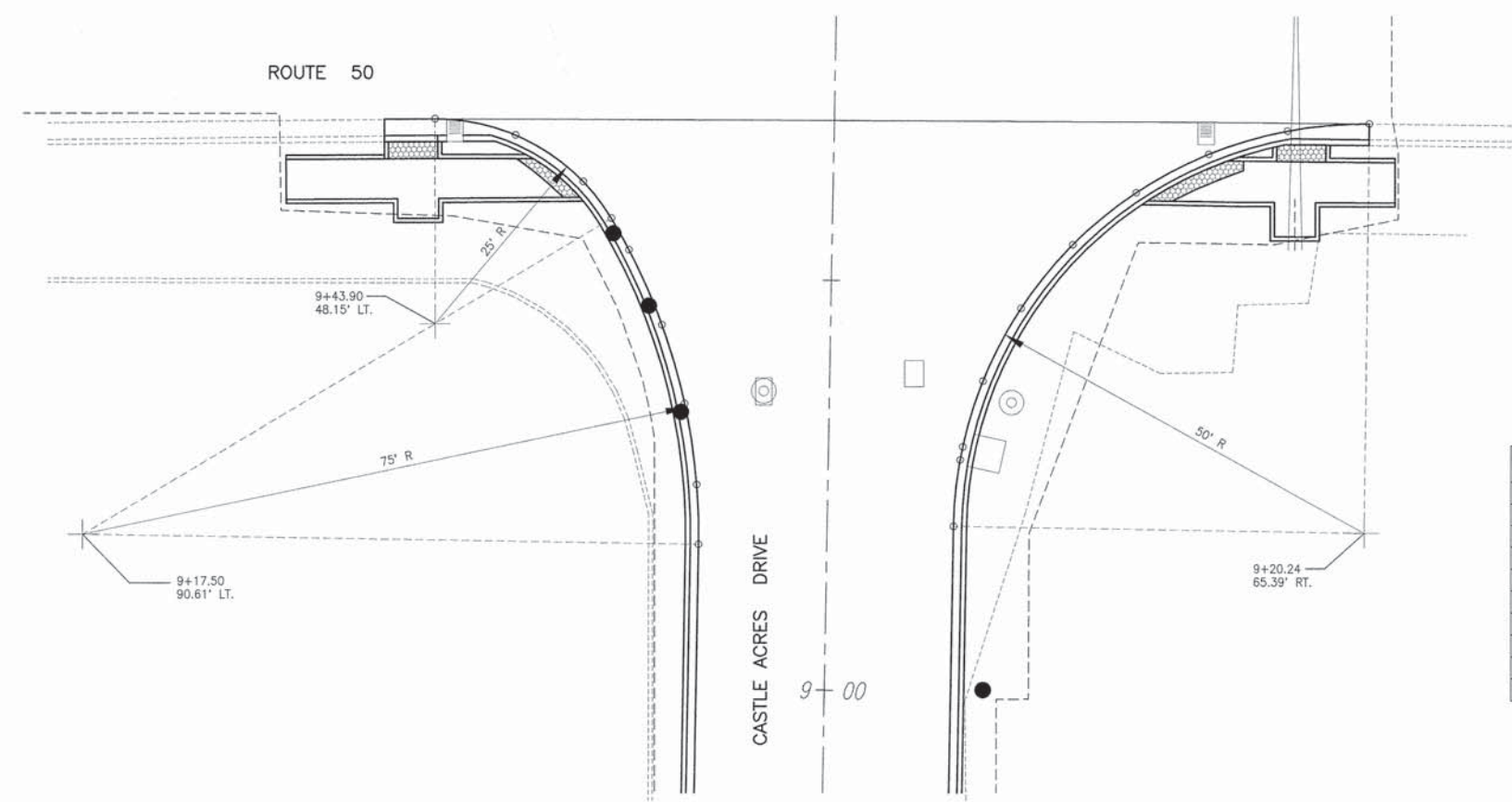
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	28
FEDERAL AID PROJECT		CONTRACT 97571		



SCALE:
1"=20'

4/1/2018 - 2:10:00 PM - Proj: 06-00058-00-PV - Drawing: PAVEMENT MARKING PLAN - West Highway 50 - 28

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	29
FEDERAL AID PROJECT		CONTRACT 97571		

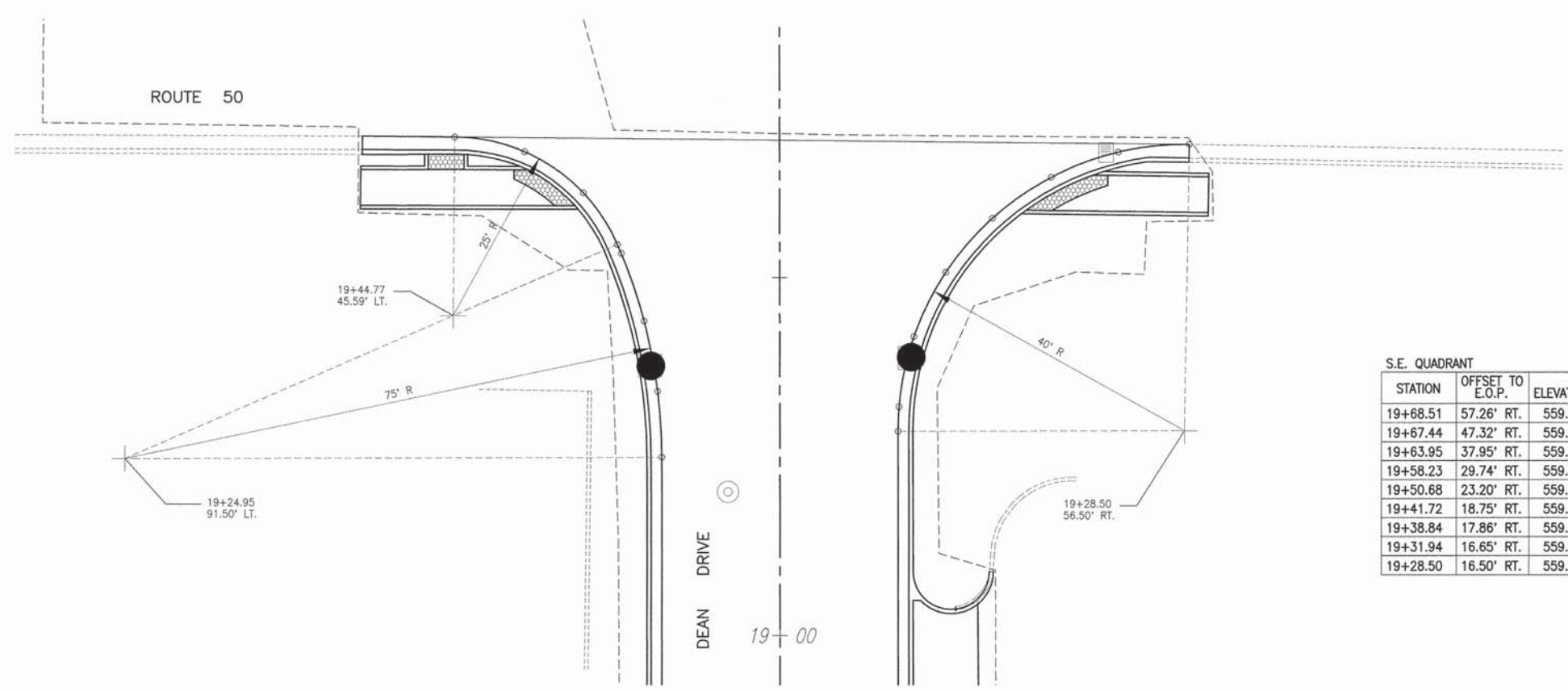
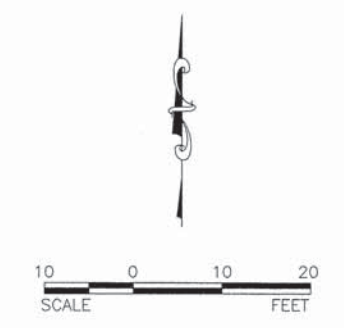


S.W. QUADRANT

STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
9+68.94	48.57' LT.	557.69	0.0
9+67.11	38.74' LT.	557.83	10.0
9+61.57	30.42' LT.	557.98	20.0
9+57.14	26.91' LT.	558.06	25.66
9+53.28	24.71' LT.	558.12	30.0
9+44.23	20.53' LT.	558.26	40.0
9+34.66	17.60' LT.	558.41	50.0
9+24.80	15.97' LT.	558.55	60.0
9+17.50	15.61' LT.	558.66	67.31

S.E. QUADRANT

STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
9+70.24	65.14' RT.	558.88	0.0
9+69.19	55.19' RT.	558.78	10.0
9+66.93	45.65' RT.	558.69	20.0
9+61.33	36.91' RT.	558.66	30.0
9+54.83	29.30' RT.	558.63	40.0
9+46.97	23.13' RT.	558.60	50.0
9+38.01	18.66' RT.	558.57	60.0
9+29.67	16.29' RT.	558.55	68.78
9+28.36	16.06' RT.	558.59	70.0
9+20.24	15.39' RT.	558.62	78.17

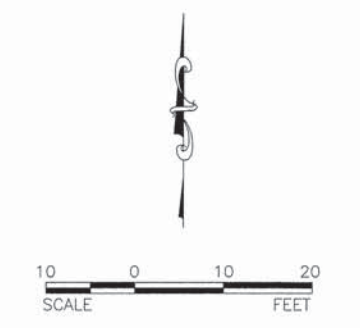


S.W. QUADRANT

STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
19+69.77	45.35' LT.	560.16	0.0
19+67.67	35.58' LT.	560.06	10.0
19+61.92	27.40' LT.	559.96	20.0
19+54.68	22.64' LT.	559.87	28.71
19+53.43	22.11' LT.	559.86	30.0
19+43.95	18.94' LT.	559.76	40.0
19+37.69	17.59' LT.	559.68	46.4
19+34.13	17.06' LT.	559.76	50.0
19+24.95	16.50' LT.	559.84	59.19

S.E. QUADRANT

STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
19+68.51	57.26' RT.	559.59	0.0
19+67.44	47.32' RT.	559.63	10.0
19+63.95	37.95' RT.	559.66	20.0
19+58.23	29.74' RT.	559.70	30.0
19+50.68	23.20' RT.	559.73	40.0
19+41.72	18.75' RT.	559.77	50.0
19+38.84	17.86' RT.	559.78	52.98
19+31.94	16.65' RT.	559.80	60.0
19+28.50	16.50' RT.	559.82	63.44



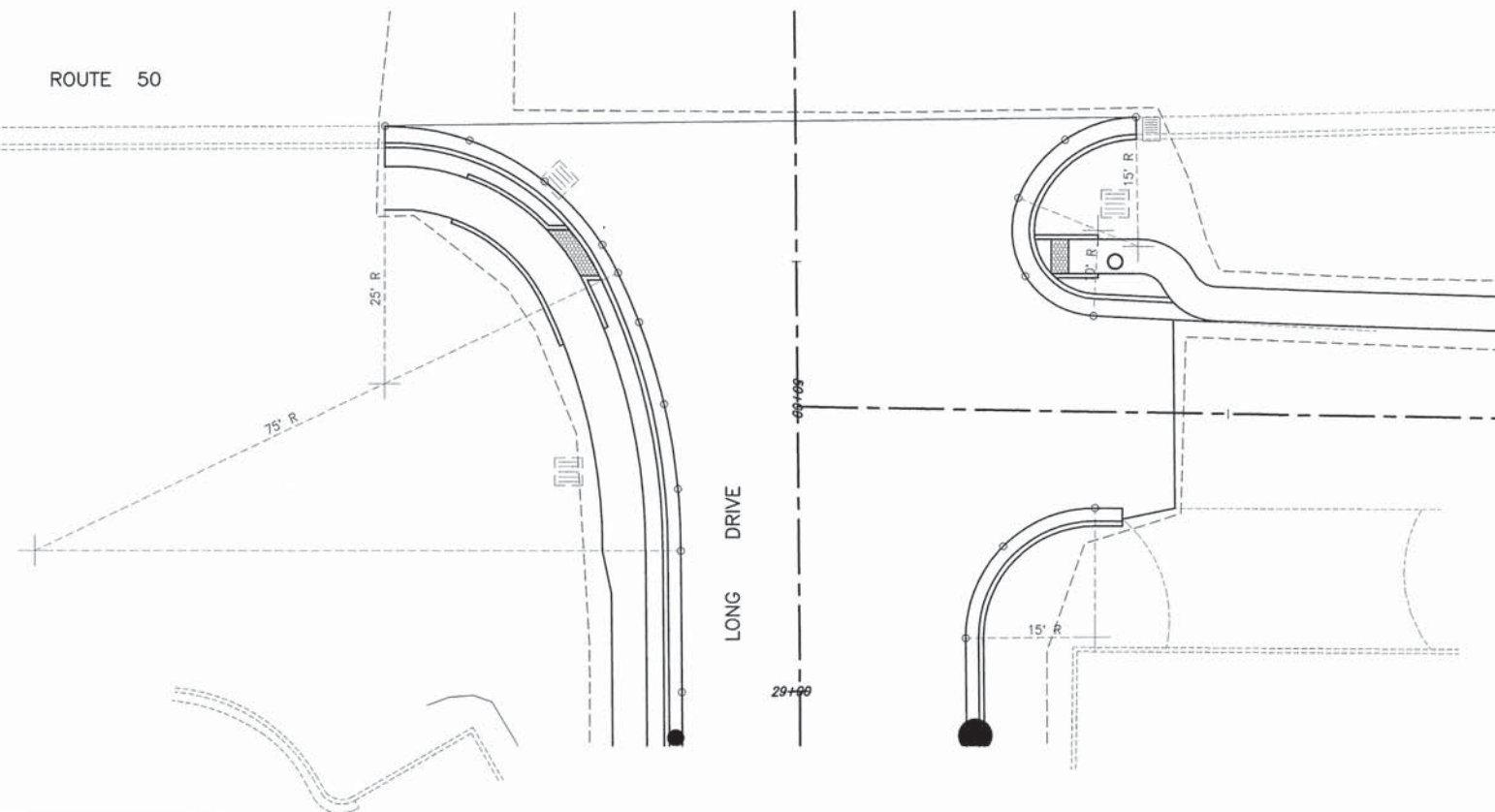
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	30
FEDERAL AID PROJECT		CONTRACT 97571		

ROUTE 50

S.W. QUADRANT

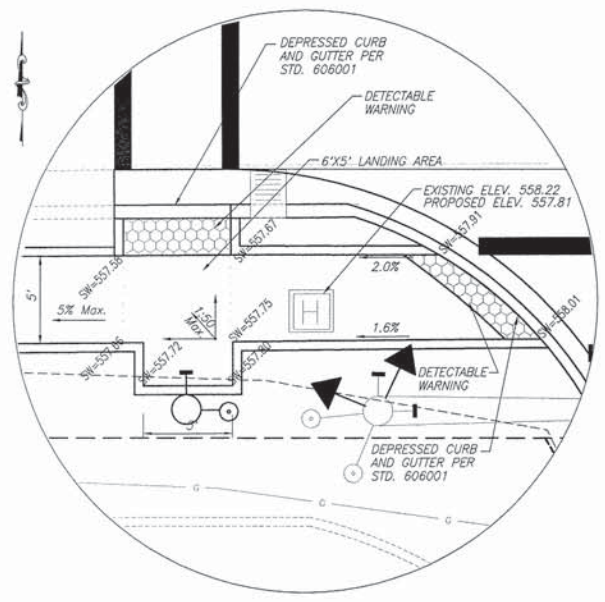
STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
29+66.29	47.61' LT.	Match Ex.	0.0
29+64.42	37.82' LT.	554.22	10.0
29+59.56	29.13' LT.	553.98	20.0
29+52.13	22.51' LT.	553.74	30.0
29+48.84	20.21' LT.	553.65	33.75
29+43.07	18.31' LT.	553.51	40.0
29+33.48	15.50' LT.	553.31	50.0
29+23.90	13.98' LT.	553.20	60.0
29+16.45	13.70' LT.	553.10	67.16
29+00.00	13.70' LT.	553.02	----



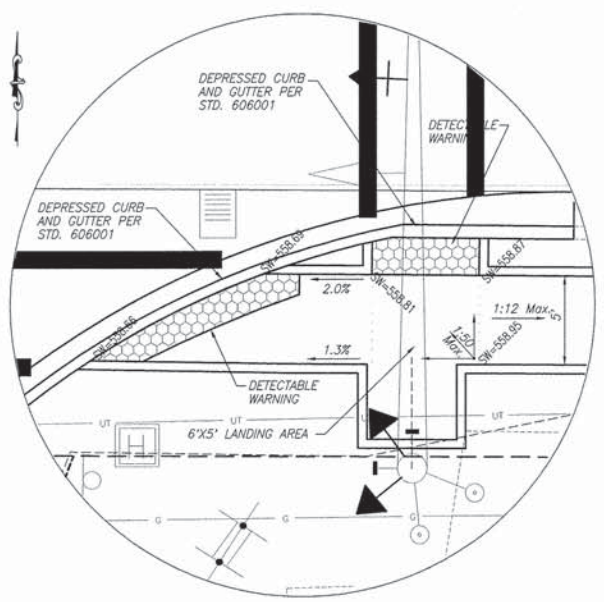
S.E. QUADRANT

STATION	OFFSET TO E.O.P.	ELEVATION	DISTANCE ALONG ARC
29+66.40	39.56' RT.	553.17	0.0
29+63.84	31.30' RT.	553.21	8.77
29+57.15	25.87' RT.	553.25	17.53
29+48.03	26.52' RT.	553.13	27.0
50+34.16	11.14' LT.	553.00	30.0
50+34.73	11.17' RT.	552.93	0.0
29+16.67	23.74' RT.	553.10	11.85
29+06.02	19.30' RT.	552.99	23.70

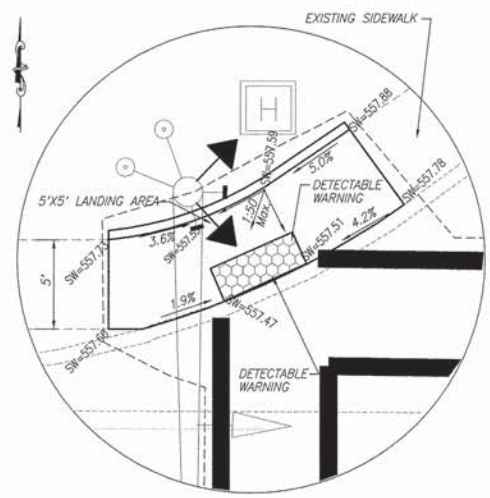
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	31
FEDERAL AID PROJECT		CONTRACT 97571		



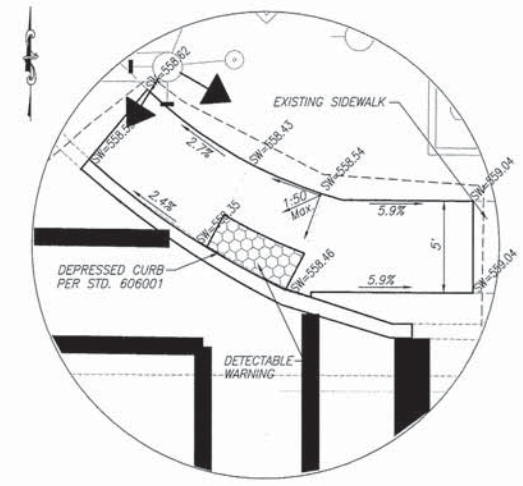
**SOUTHWEST CORNER –
CASTLE ACRES DRIVE & HIGHWAY 50**
SCALE: 1"=5'



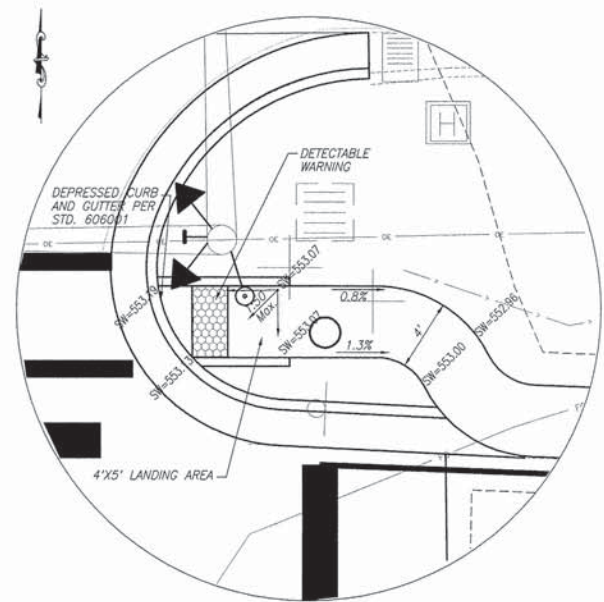
**SOUTHEAST CORNER –
CASTLE ACRES DRIVE & HIGHWAY 50**
SCALE: 1"=5'



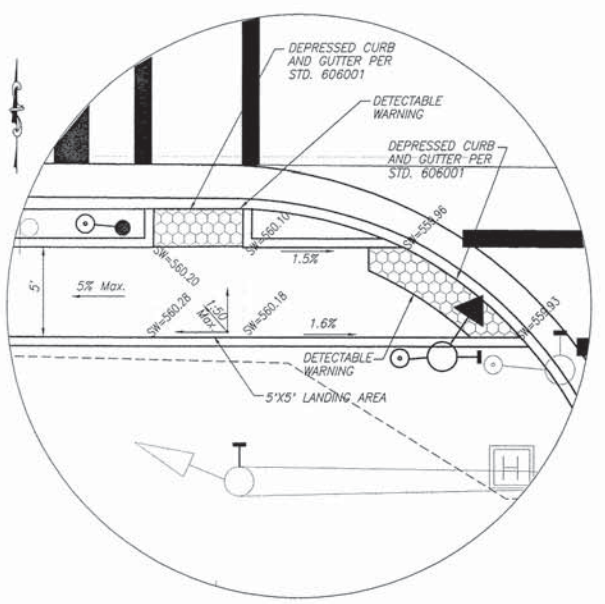
**NORTHWEST CORNER –
AUTO COURT & HIGHWAY 50**
SCALE: 1"=5'



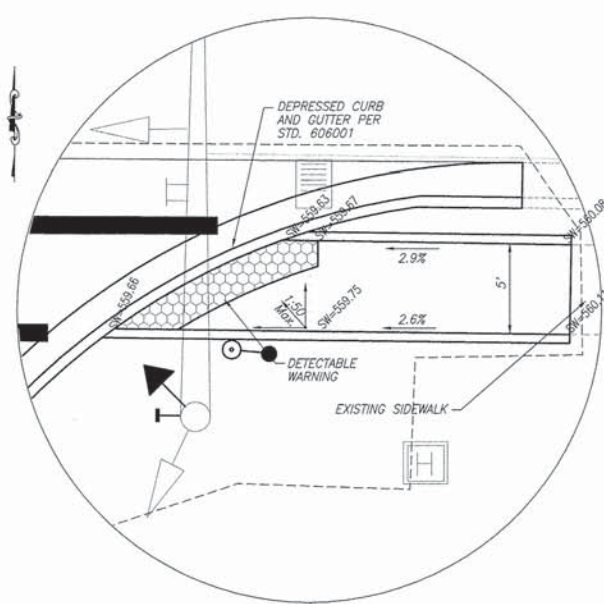
**NORTHEAST CORNER –
AUTO COURT & HIGHWAY 50**
SCALE: 1"=5'



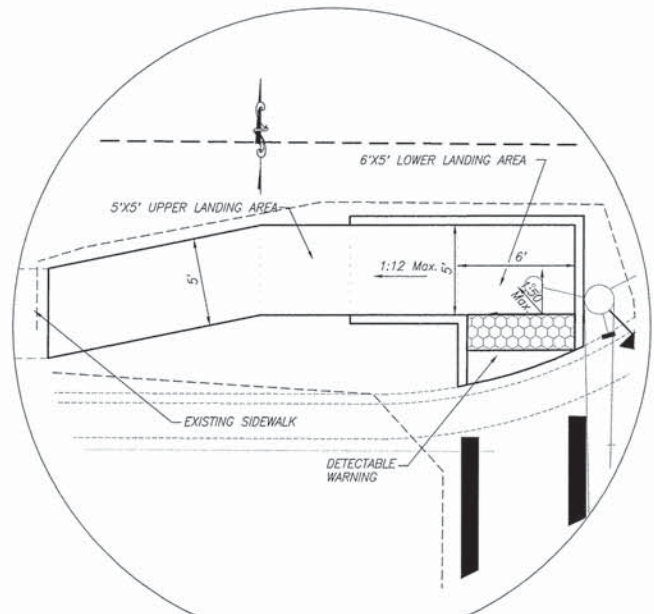
**SOUTHEAST CORNER –
LONG DRIVE & HIGHWAY 50**
SCALE: 1"=5'



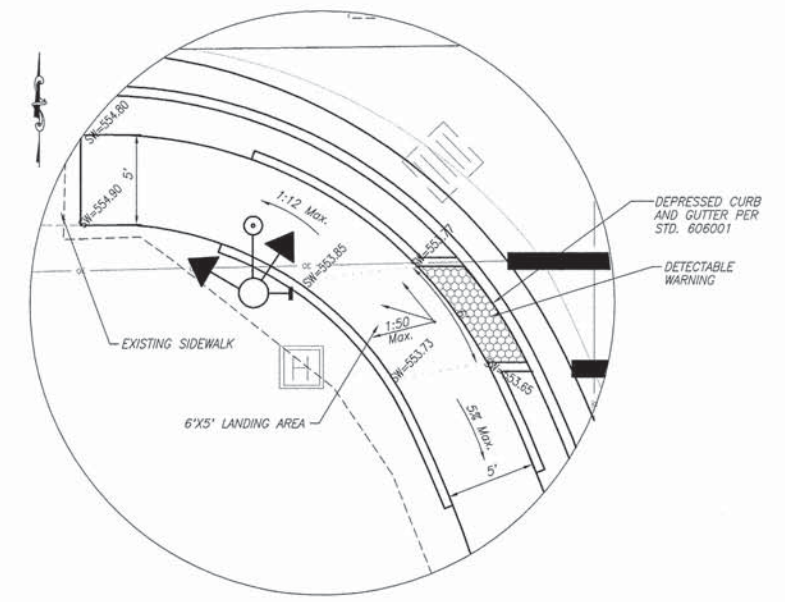
**SOUTHWEST CORNER –
DEAN DRIVE & HIGHWAY 50**
SCALE: 1"=5'



**SOUTHEAST CORNER –
DEAN DRIVE & HIGHWAY 50**
SCALE: 1"=5'

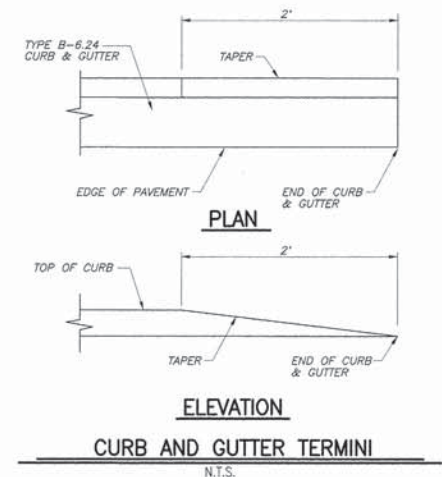
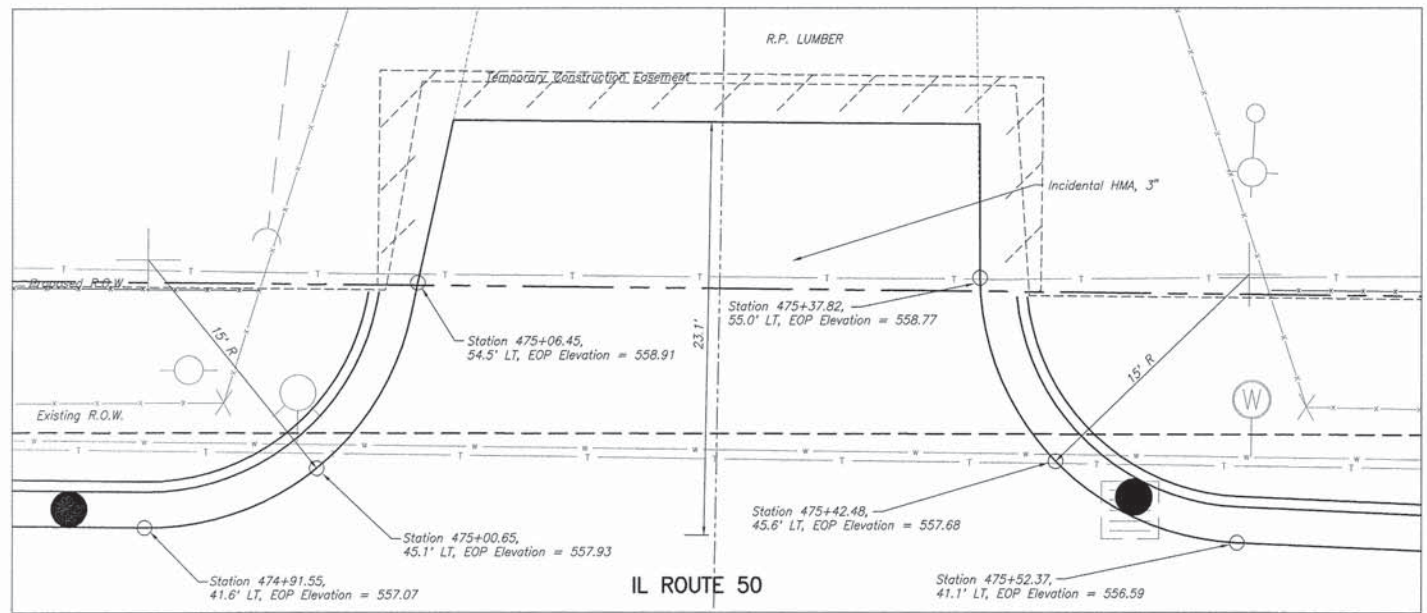


**NORTHWEST CORNER –
DEAN DRIVE & HIGHWAY 50**
SCALE: 1"=5'

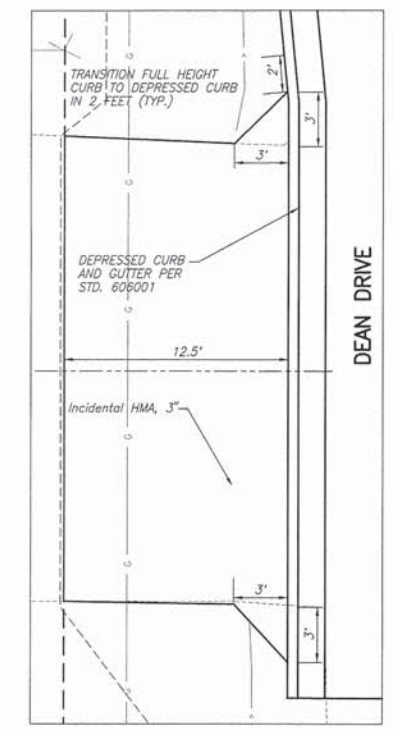


**SOUTHWEST CORNER –
LONG DRIVE & HIGHWAY 50**
SCALE: 1"=5'

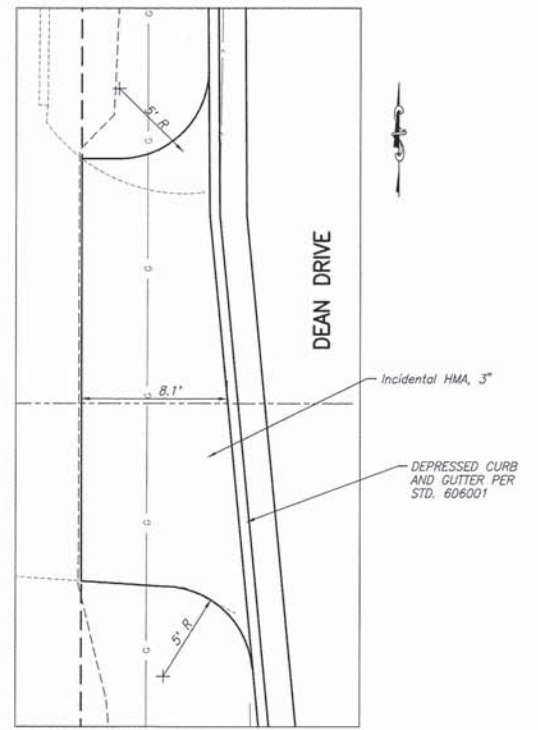
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	32
FEDERAL AID PROJECT		CONTRACT 97571		



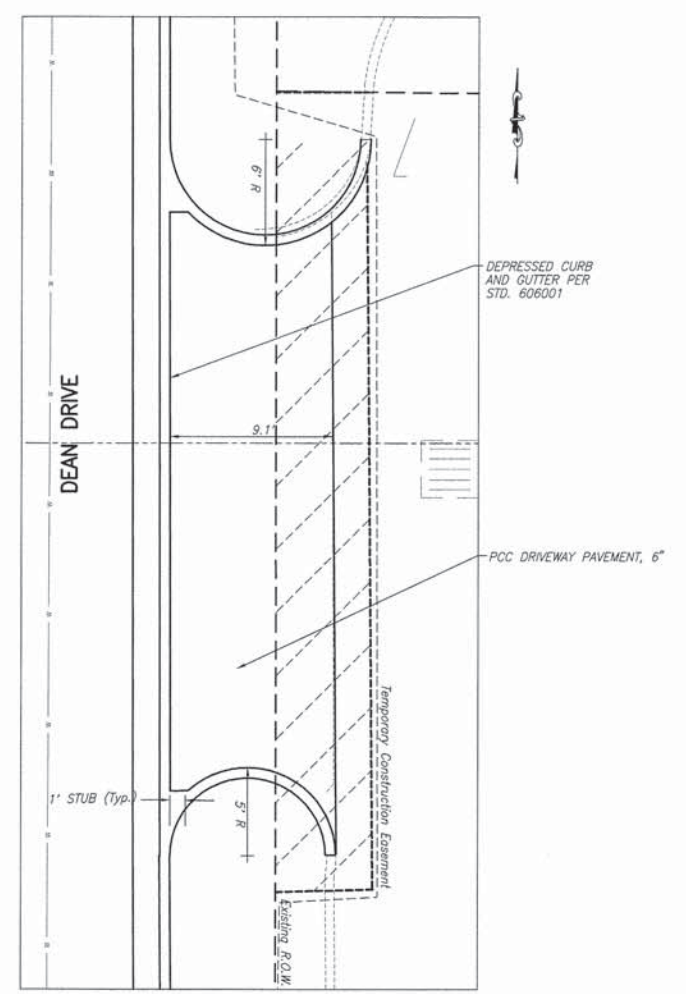
C.E. STA 475+23 LT. - 32' WIDE
SCALE: 1"=5'



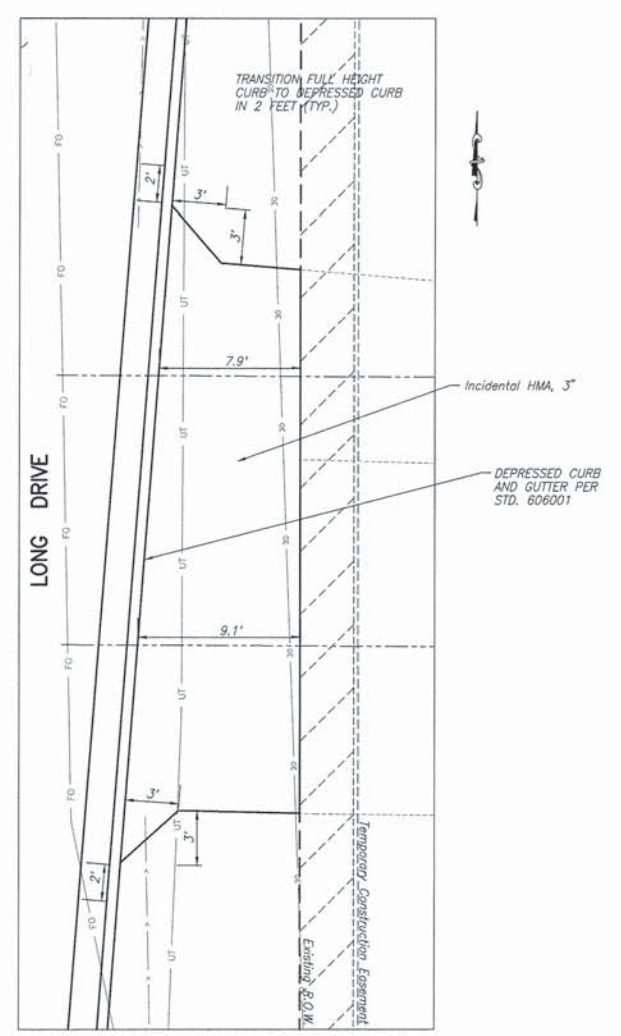
C.E. STA. 17+70 LT. - 26' WIDE
SCALE: 1"=5'



C.E. STA. 18+30 LT. - 24' WIDE
SCALE: 1"=5'

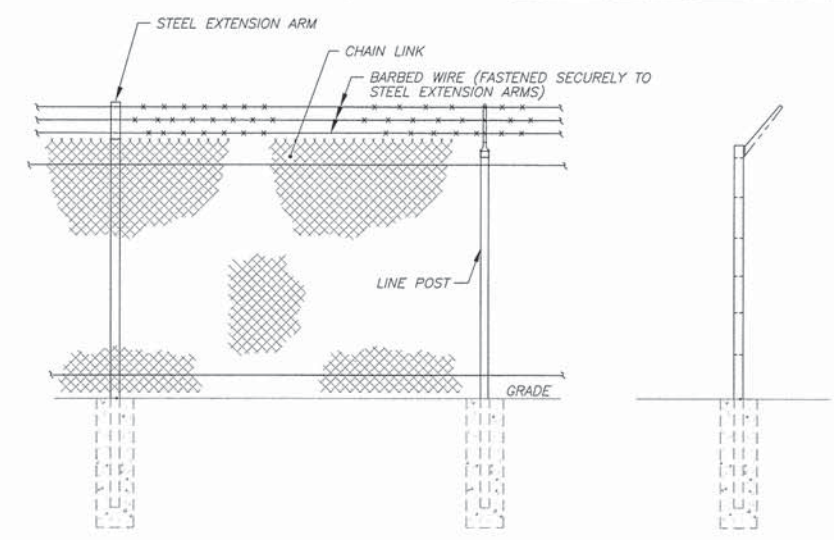
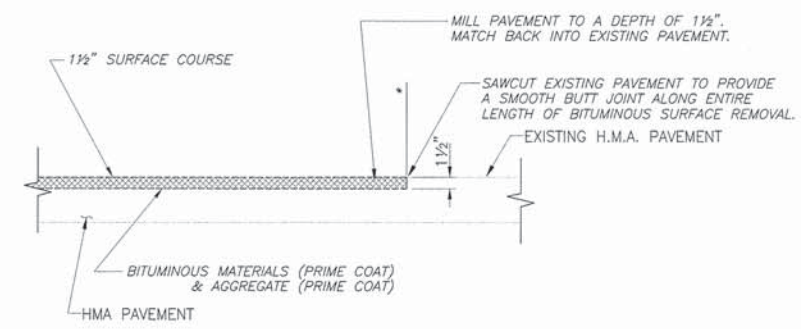
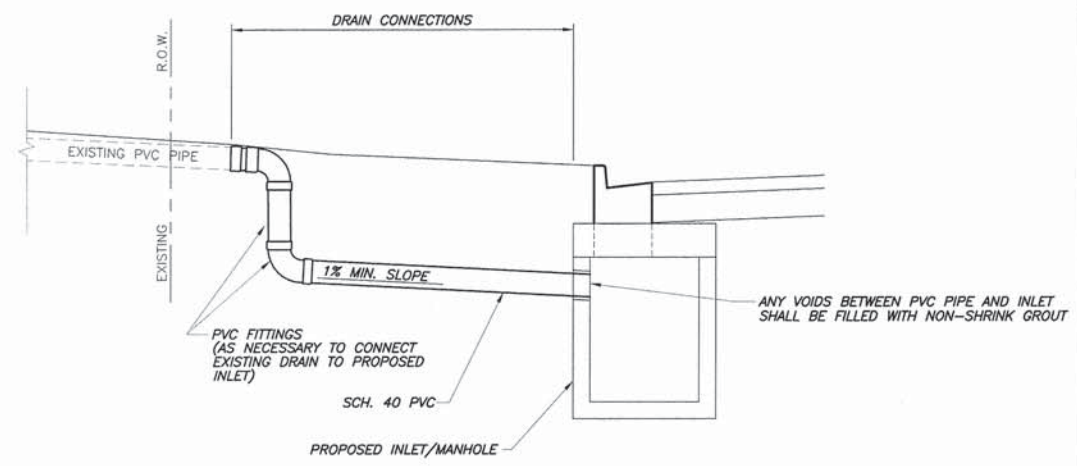


C.E. STA. 18+92 RT. - 29' WIDE
SCALE: 1"=5'



C.E. STA. 27+61 RT. - 30' WIDE
SCALE: 1"=5'

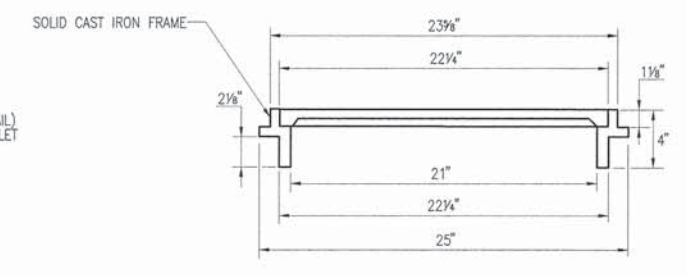
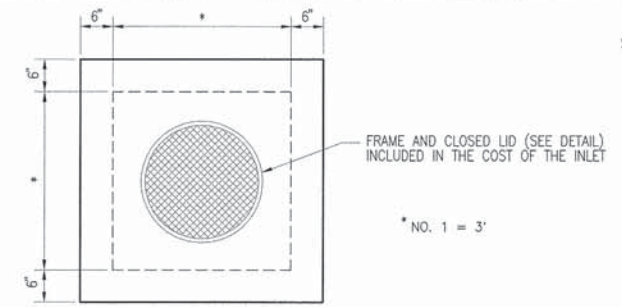
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	33
FEDERAL AID PROJECT		CONTRACT 97571		



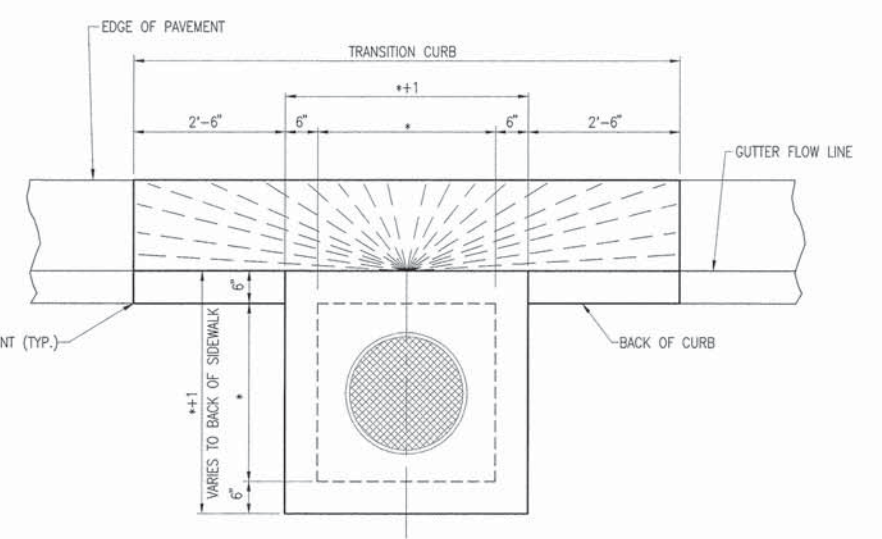
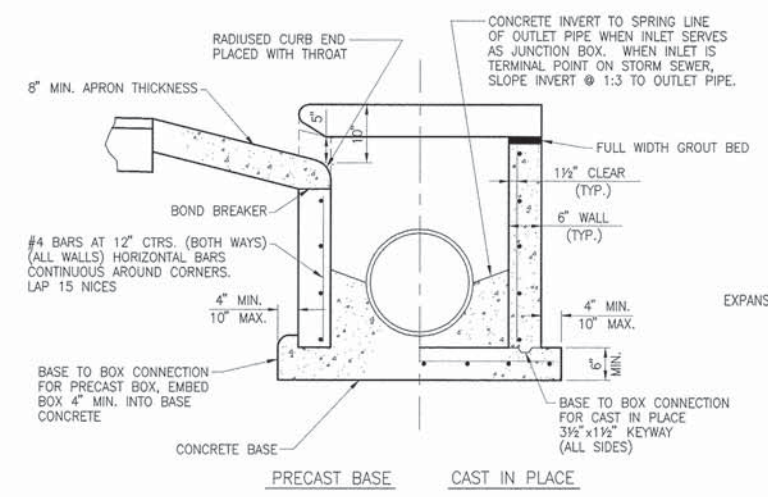
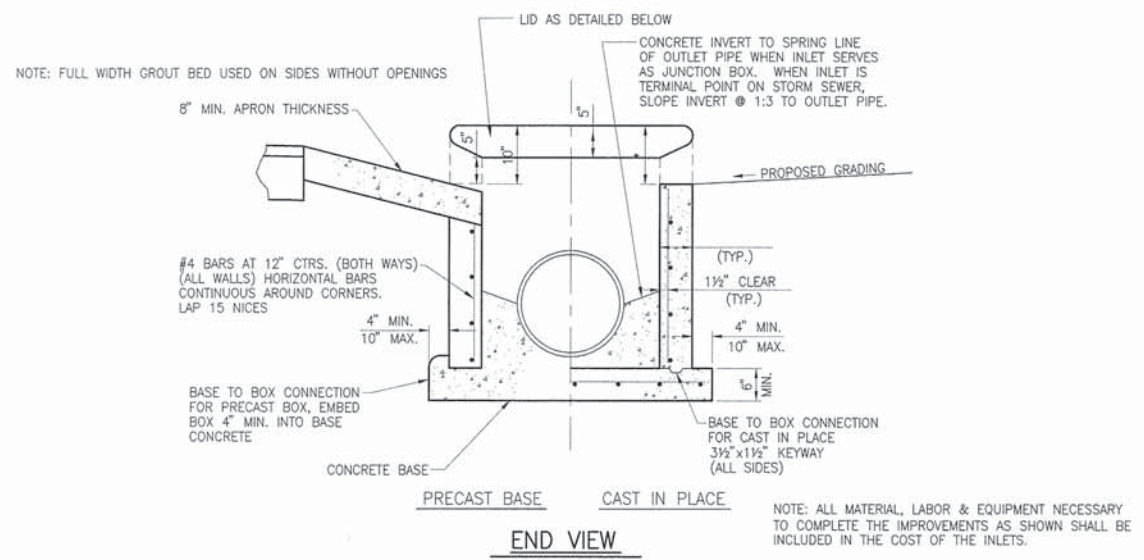
- NOTES:
1. THE STEEL EXTENSION SHALL BE OF SIMILAR TYPE AND DESIGN AS THOSE ON THE EXISTING FENCE.
 2. THE COST OF THE EXTENSION ARMS AND BARBED WIRE SHALL BE INCLUDED IN THE COST OF CHAIN LINK FENCE, 6'.
 3. THE CHAIN LINK FENCE SHALL CONFORM TO STD. 664001, AND THE BARBED WIRE SHALL CONFORM TO STD. 665001.

OPEN THROAT STRUCTURES

PT	LOCATION STATION / OFFSET	DESCRIPTION	* - HEIGHT OF OPENING FROM TOP OF LID
LONG DRIVE			
23	27+99.65 20.30'R	INLET SPECIAL, NO. 1 (3'X3')	12"



INLET TYPE	INSIDE WIDTH
INLETS, SPECIAL, NO. 1	3' X 3'



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	35
FEDERAL AID PROJECT			CONTRACT 97571	

ELECTRICAL GENERAL NOTES

- ALL VEHICLE SIGNAL HEADS SHALL BE POLYCARBONATE AND SHALL HAVE 12 INCH L.E.D. INDICATIONS. ALL MOUNTING HARDWARE, SIGNAL POSTS, MAST ARMS, LUMINAIRES, AND BASES SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SIEZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- BACKPLATES SHALL BE ABS PLASTIC.
- ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON FULL RING TONGUE CONNECTORS.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN THE HANDHOLE PER ARTICLE 873.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWING 886001. CONDUCTORS SHALL BE SPLICED IN RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN GREEN.
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATIONS. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT ARE THE FOLLOWING:
 CITY OF OFALLON (WATER & SEWER)
 AMEREN ILLINOIS (GAS & ELECTRIC)
 AT & T (TELEPHONE)
 CHARTER COMMUNICATIONS (CABLE TV)
 CASEVILLE TOWNSHIP (SEWER)

 THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS HAVE LOCATED AT THE TIME OF SURVEY, OR BASE ON EXISTING AVAILABLE INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
- SEE "JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS" (JULIE) IN THE SPECIAL PROVISIONS. CALL (800) 892-0123 ONE WEEK BEFORE PLANNING TO DIG.
- ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED. THE SHALL BE RACK MOUNTED.
- CABLE MARKING TAPE SHALL BE INCLUDED WITH THE PAY ITEM "TRENCH AND BACKFILL FOR ELECTRICAL WORK" AND INSTALLED PER ARTICLE 815.03(d) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
- A 1/4" NYLON ROPE SHALL BE FURNISHED AND INSTALLED IN ALL SIGNAL CONDUITS, THIS WORK SHALL BE INCLUDED WITH THE CONDUIT PAY ITEMS.

STANDARDS

805001-01
 814001-03
 857001-01
 873001-02
 876001-03
 878001-10
 880006-01
 886001-01
 886006-01

DETECTOR LOOP REQUIREMENTS & CALCULATIONS

W HIGHWAY 50 & CASTLES ACRES/AUTO COURT

LOOP	PHASE	LOOP SIZE (FT)	REQUIRED NO. OF TURNS	CALCULATED INDUCTANCE microhenries	CALCULATED RESISTANCE ohms
9	NB LT CD	6' X 50'	3-6-3	822.4	2.4
10	NB THRU CD	6' X 50'	3-6-3	818.2	2.3
11	EB LT CD	6' X 50'	3-6-3	841.9	2.9
12	EB THRU CD	6' X 50'	3-6-3	838.6	2.8
13	EB THRU CD	6' X 50'	3-6-3	818.2	2.8

DETECTOR LOOP REQUIREMENTS & CALCULATIONS

W HIGHWAY 50 & DEAN DRIVE

LOOP	PHASE	LOOP SIZE (FT)	REQUIRED NO. OF TURNS	CALCULATED INDUCTANCE microhenries	CALCULATED RESISTANCE ohms
9	NB LT CD	6' X 50'	3-6-3	824.2	2.5
10	NB THRU CD	6' X 50'	3-6-3	821.8	2.4
11	EB LT CD	6' X 50'	3-6-3	839.0	2.8
12	EB THRU CD	6' X 50'	3-6-3	841.7	2.9
13	EB THRU CD	6' X 50'	3-6-3	844.3	3.0

DETECTOR LOOP REQUIREMENTS & CALCULATIONS

W HIGHWAY 50 & LONG DRIVE

LOOP	PHASE	LOOP SIZE (FT)	REQUIRED NO. OF TURNS	CALCULATED INDUCTANCE microhenries	CALCULATED RESISTANCE ohms
11	NB LT CD	6' X 50'	3-6-3	825.3	2.5
12	NB THRU CD	6' X 50'	3-6-3	823.1	2.4
13	EB LT CD	6' X 50'	3-6-3	846.5	3.0
14	EB THRU CD	6' X 50'	3-6-3	842.3	2.9
15	EB THRU CD	6' X 50'	3-6-3	839.5	2.9

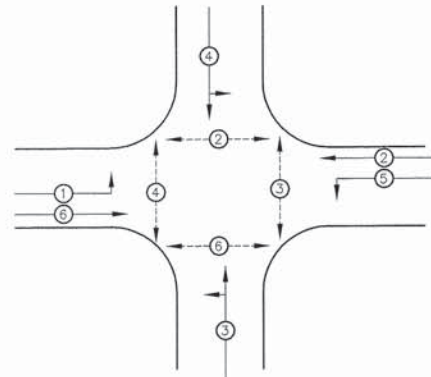
THE ABOVE VALUES ARE CALCULATION OF COMBINED LOOP & LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHING ± 20% OF THE VALUES.

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	36
FEDERAL AID PROJECT		CONTRACT 97571		

CONTROLLER PHASING

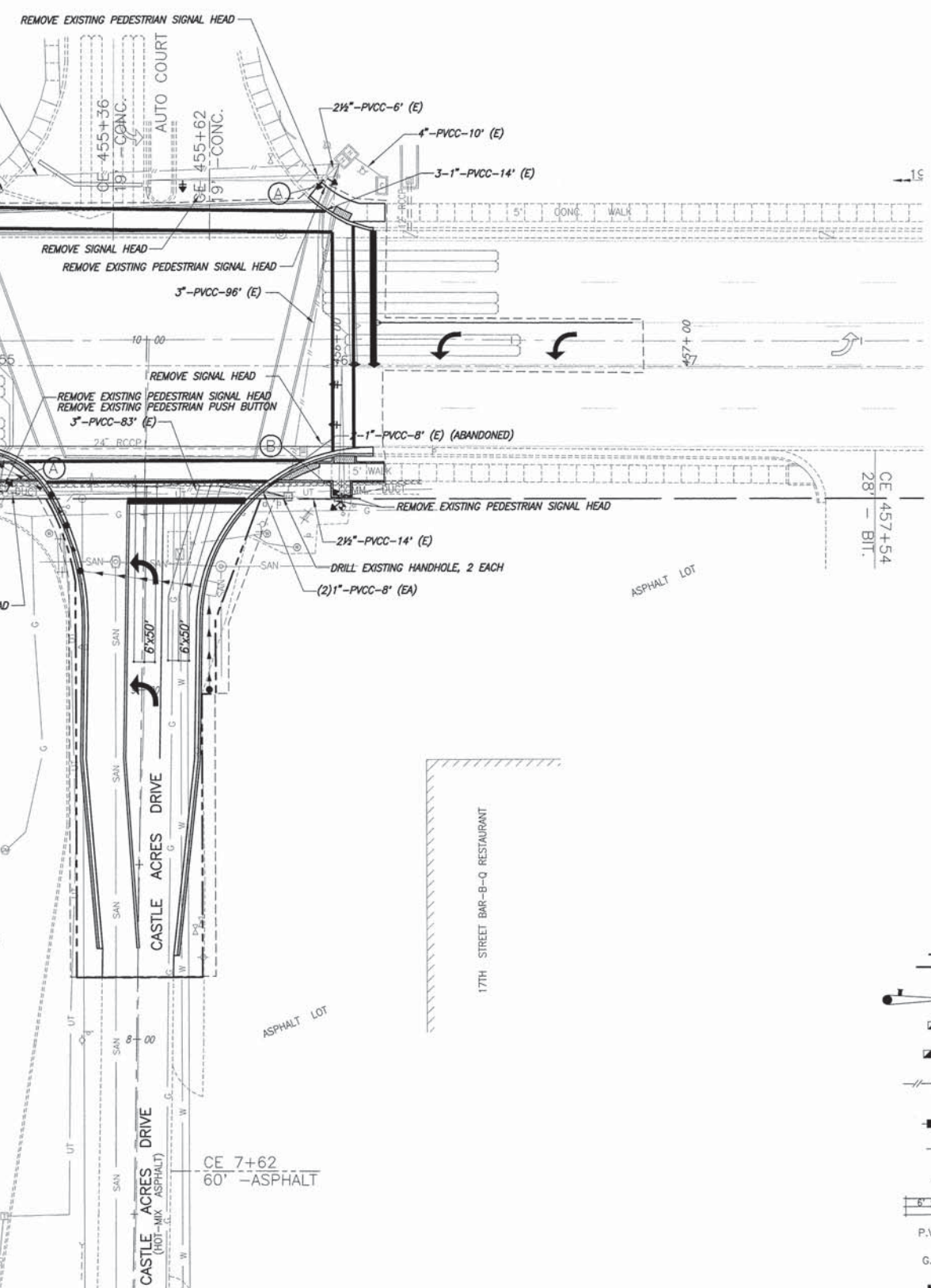
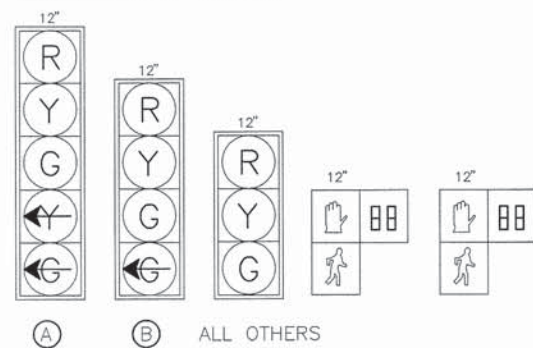
PHASE #	PROPOSED							
	1	2	3	4	5	6	7	8
MOVEMENT	↓	←	↑	→	←	→	—	—
CONCURRENT MOVEMENT PERMITTED	5+6	5+6	none	none	1+2	1+2	NOT USED	NOT USED

* PEDESTRIAN MOVEMENT ON ACTUATION ONLY.



PHASE DESIGNATION DIAGRAM

TRAFFIC SIGNAL FACES



TRAFFIC SIGNAL LEGEND

- PROPOSED TRAFFIC SIGNAL MAST ARM
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONDUIT: "T" TRENCHED; "P" PUSHED; SIZE SPECIFIED
- EXISTING SERVICE INSTALLATION
- PROPOSED PEDESTRIAN PUSH-BUTTON DETECTOR
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED DETECTOR LOOP
- P.V.C.C. POLYVINYL CHLORIDE CONDUIT
- G.S.C. GALVANIZED STEEL CONDUIT
- PROPOSED CONTROLLER

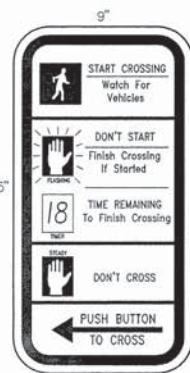
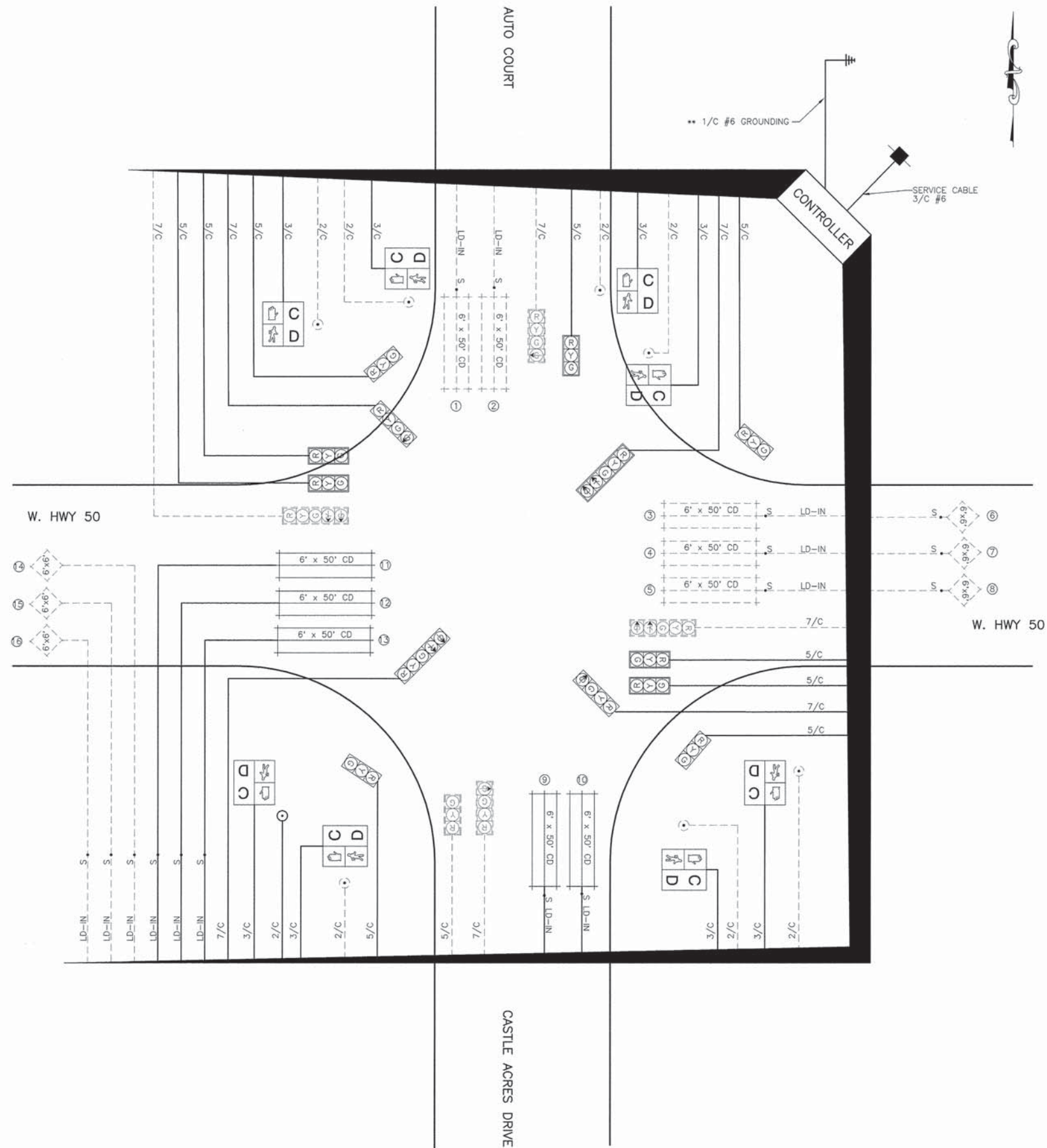
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	37
FEDERAL AID PROJECT		CONTRACT 97571		

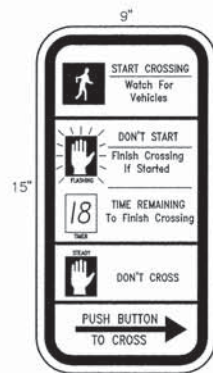
CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- #6 INDICATES AMERICAN WIRE (AWG) SIZE 6
- LD-IN ELECTRICAL CABLE LEAD-IN 1 PAIR
- CD CALL DELAY
- CCO CALL CARRY OVER
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- LOOP DETECTOR

** GROUNDING SHALL INCLUDE:
 4 EACH MAST ARM POLES
 3 EACH HANDHOLES
 1 EACH DOUBLE HANDHOLE



PEDESTRIAN SIGN
 N.T.S.
 R10-3e-L
 4 EACH REQUIRED



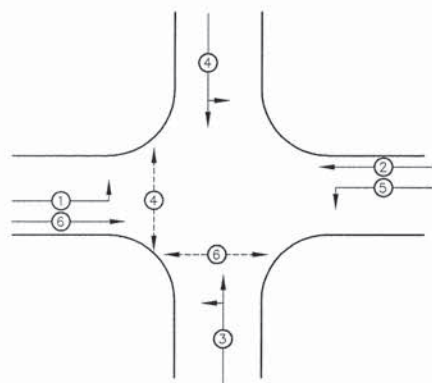
PEDESTRIAN SIGN
 N.T.S.
 R10-3e-R
 4 EACH REQUIRED

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	38
FEDERAL AID PROJECT		CONTRACT 97571		

CONTROLLER PHASING

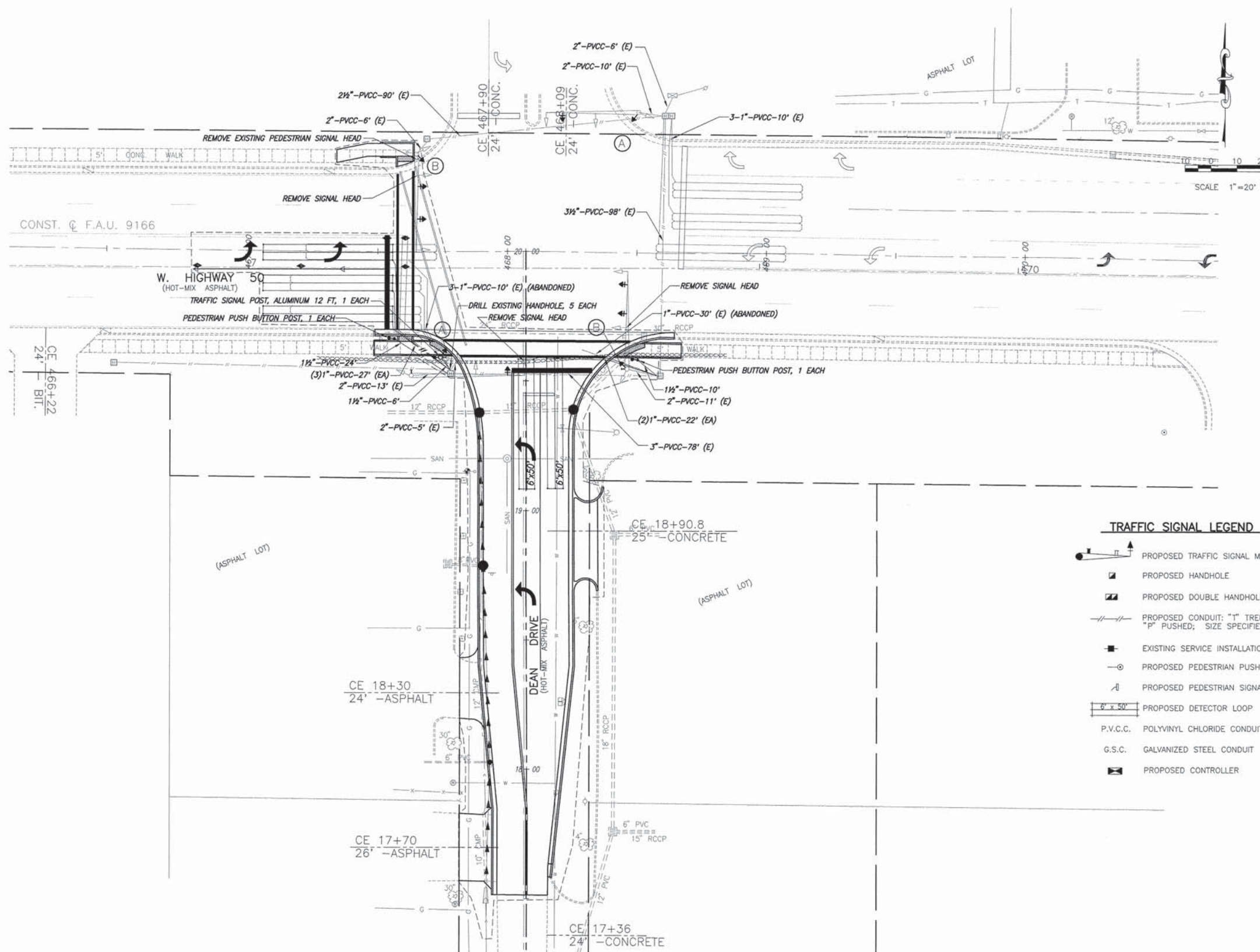
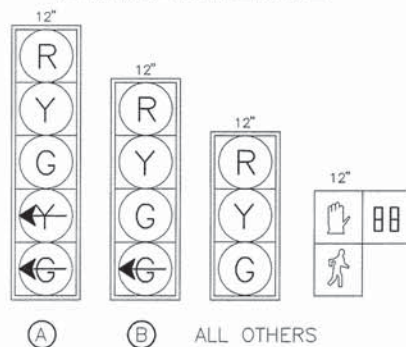
PHASE #	PROPOSED							
	1	2	3	4	5	6	7	8
MOVEMENT	↓	←	↑	→	←	→	—	—
CONCURRENT MOVEMENT PERMITTED	5+6	5+6	none	none	1+2	1+2	NOT USED	NOT USED

* PEDESTRIAN MOVEMENT ON ACTUATION ONLY.



PHASE DESIGNATION DIAGRAM

TRAFFIC SIGNAL FACES



TRAFFIC SIGNAL LEGEND

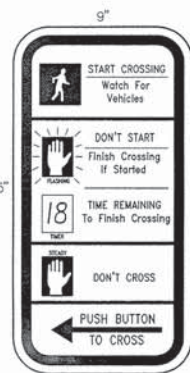
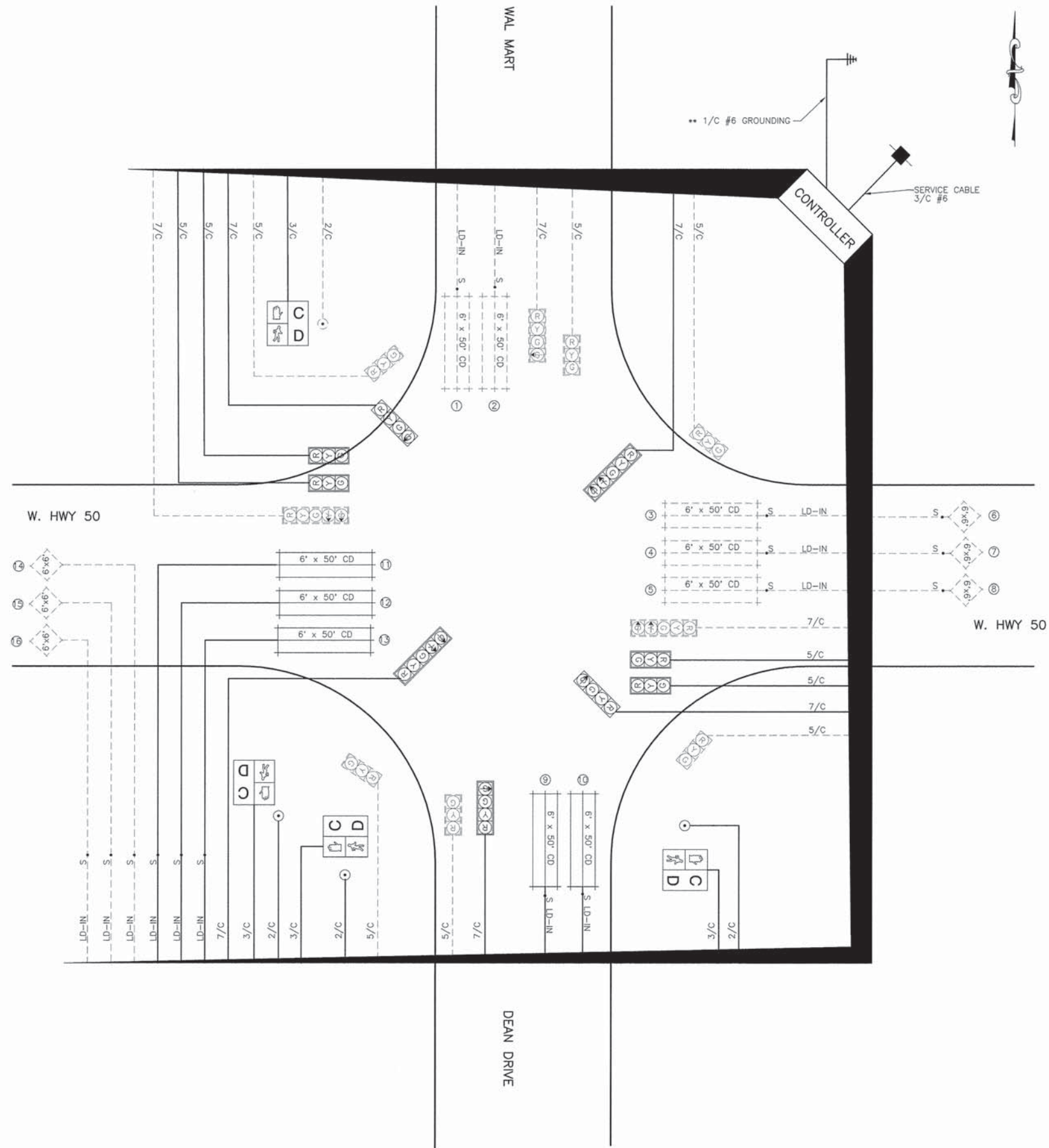
- PROPOSED TRAFFIC SIGNAL MAST ARM
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED CONDUIT: "T" TRENCHED; "P" PUSHED; SIZE SPECIFIED
- EXISTING SERVICE INSTALLATION
- PROPOSED PEDESTRIAN PUSH-BUTTON DETECTOR
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED DETECTOR LOOP
- P.V.C.C. POLYVINYL CHLORIDE CONDUIT
- G.S.C. GALVANIZED STEEL CONDUIT
- PROPOSED CONTROLLER

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	39
FEDERAL AID PROJECT		CONTRACT 97571		

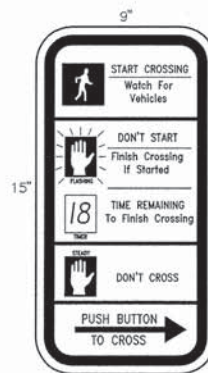
CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- #6 INDICATES AMERICAN WIRE (AWG) SIZE 6
- LD-IN ELECTRICAL CABLE LEAD-IN 1 PAIR
- CD CALL DELAY
- CCO CALL CARRY OVER
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- LOOP DETECTOR

- ** GROUNDING SHALL INCLUDE:
- 4 EACH MAST ARM POLES
 - 3 EACH HANDHOLES
 - 1 EACH DOUBLE HANDHOLE
 - 1 EACH TRAFFIC SIGNAL POST
 - 1 EACH PEDESTRIAN PUSH BUTTON POST



PEDESTRIAN SIGN
N.T.S.
R10-3e-L
1 EACH REQUIRED



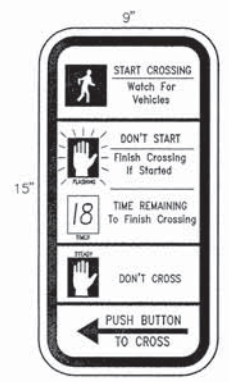
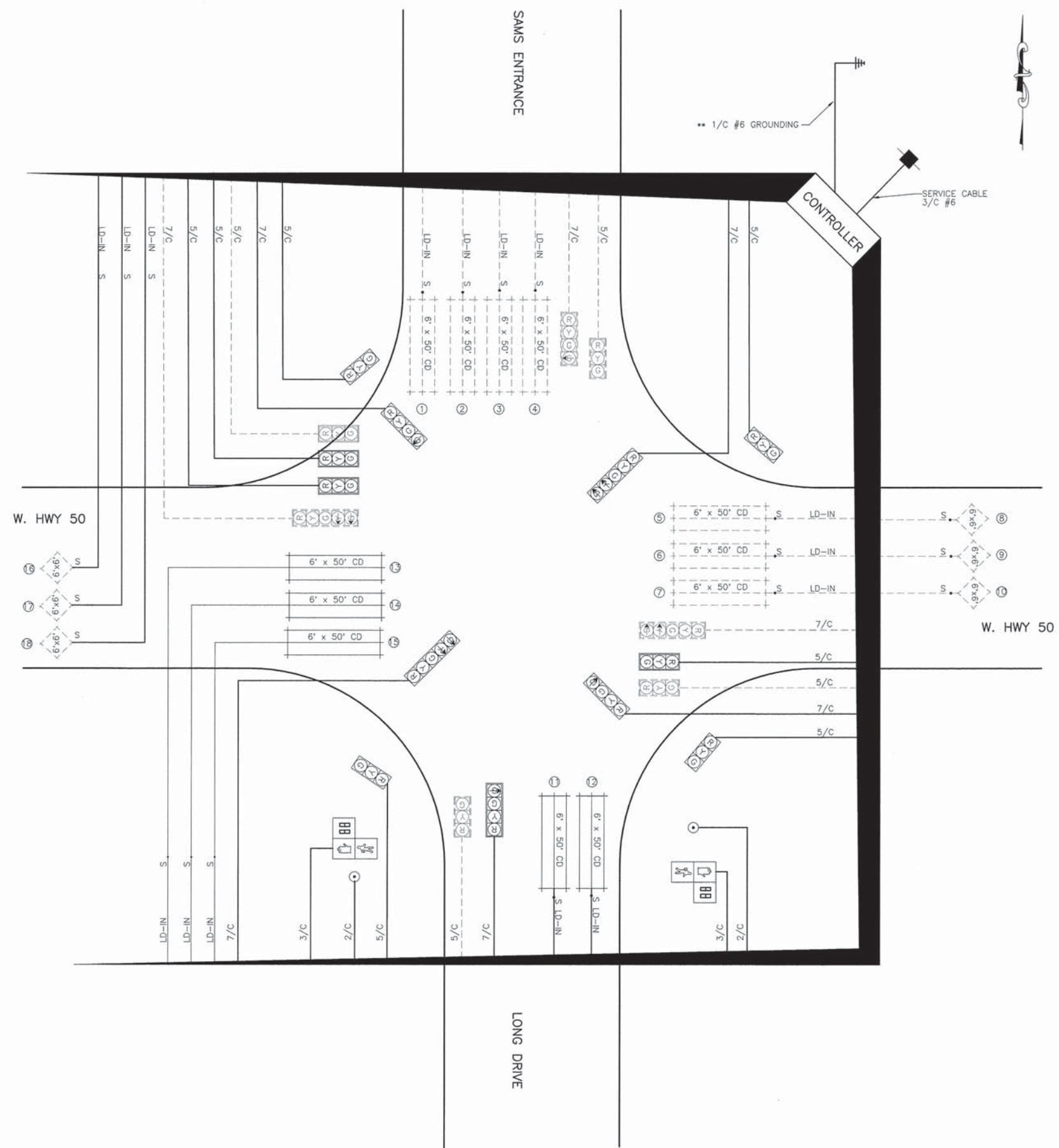
PEDESTRIAN SIGN
N.T.S.
R10-3e-R
3 EACH REQUIRED

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	41
FEDERAL AID PROJECT		CONTRACT 97571		

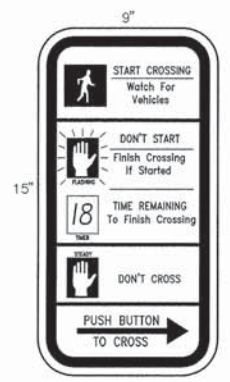
CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- #6 INDICATES AMERICAN WIRE (AWG) SIZE 6
- LD-IN ELECTRICAL CABLE LEAD-IN 1 PAIR
- CD CALL DELAY
- CCO CALL CARRY OVER
- SERVICE INSTALLATION
- Ⓜ TRAFFIC SIGNAL HEAD
- Ⓜ TRAFFIC SIGNAL HEAD WITH BACKPLATE
- || LOOP DETECTOR

** GROUNDING SHALL INCLUDE:
 3 EACH MAST ARM POLES
 3 EACH HANDHOLES
 1 EACH DOUBLE HANDHOLE
 1 EACH TRAFFIC SIGNAL POST



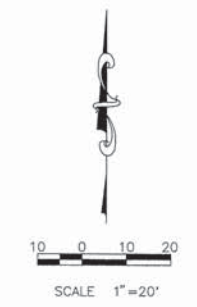
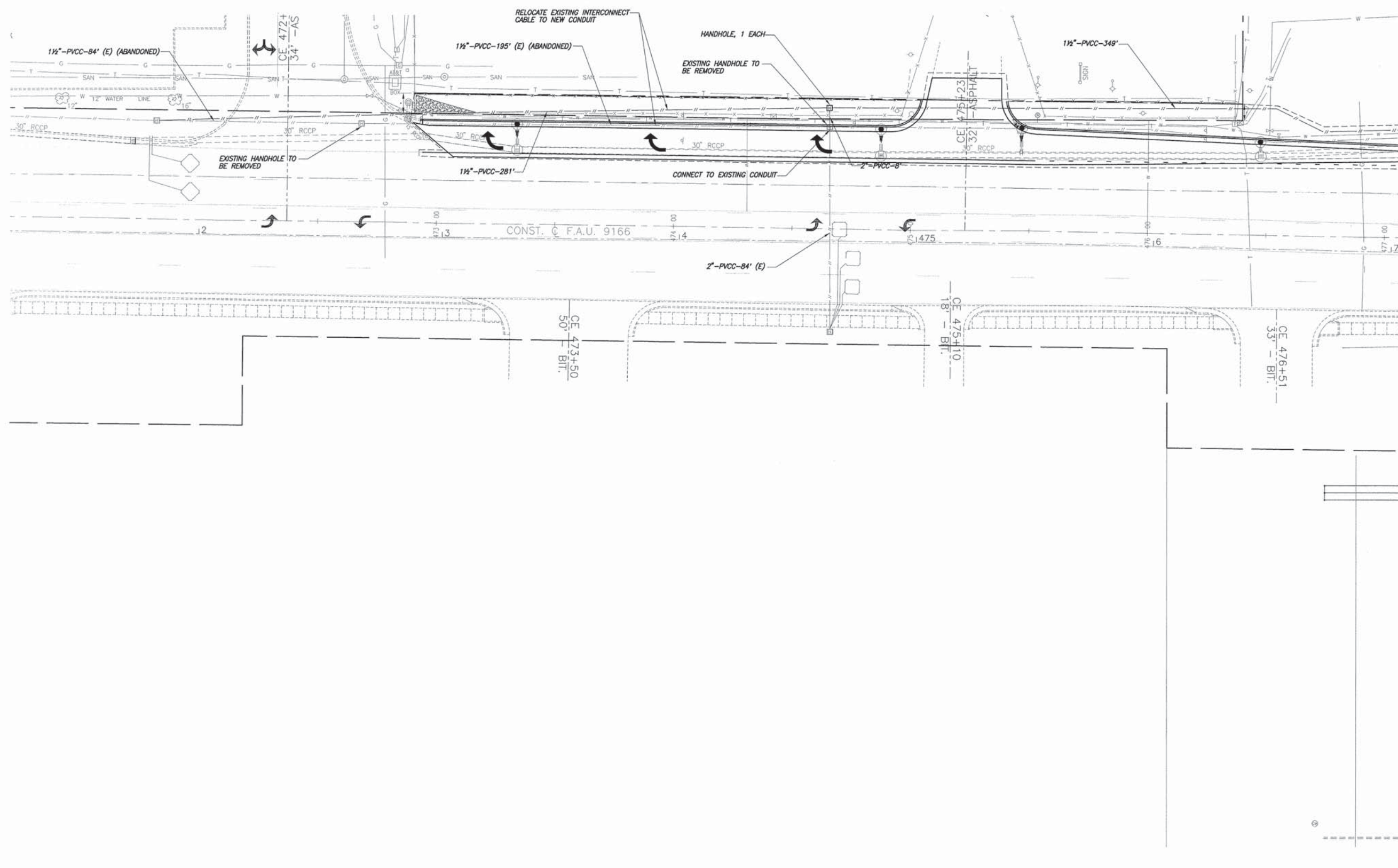
PEDESTRIAN SIGN
 N.T.S.
 R10-3e-L
 1 EACH REQUIRED



PEDESTRIAN SIGN
 N.T.S.
 R10-3e-R
 1 EACH REQUIRED

I:\V0608 - 27000 - 27000 - 06-00058-00-PV - 11/27/2015 8:13:29 AM - Project N. 001

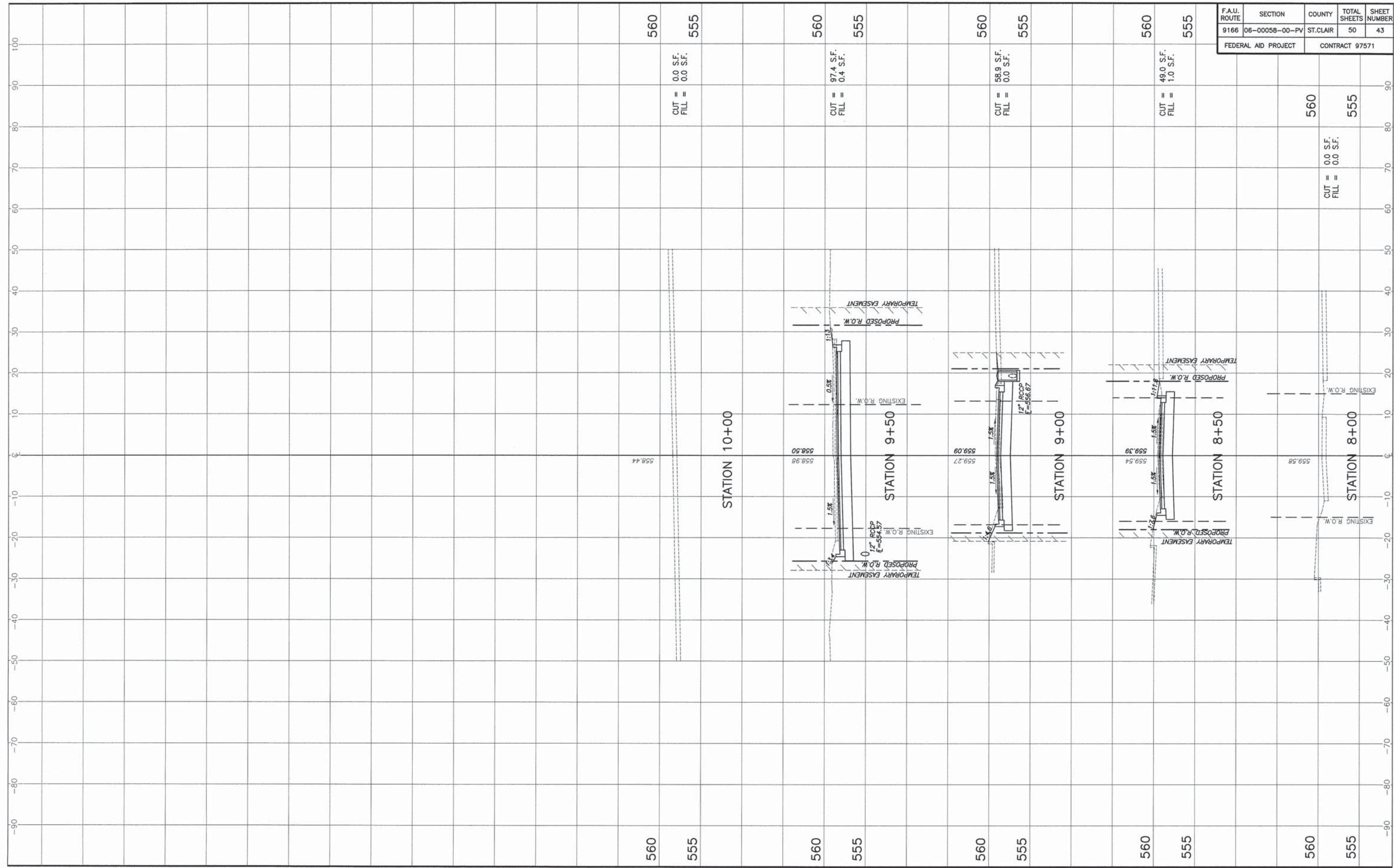
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	42
FEDERAL AID PROJECT			CONTRACT 97571	



MATCH LINE "A"

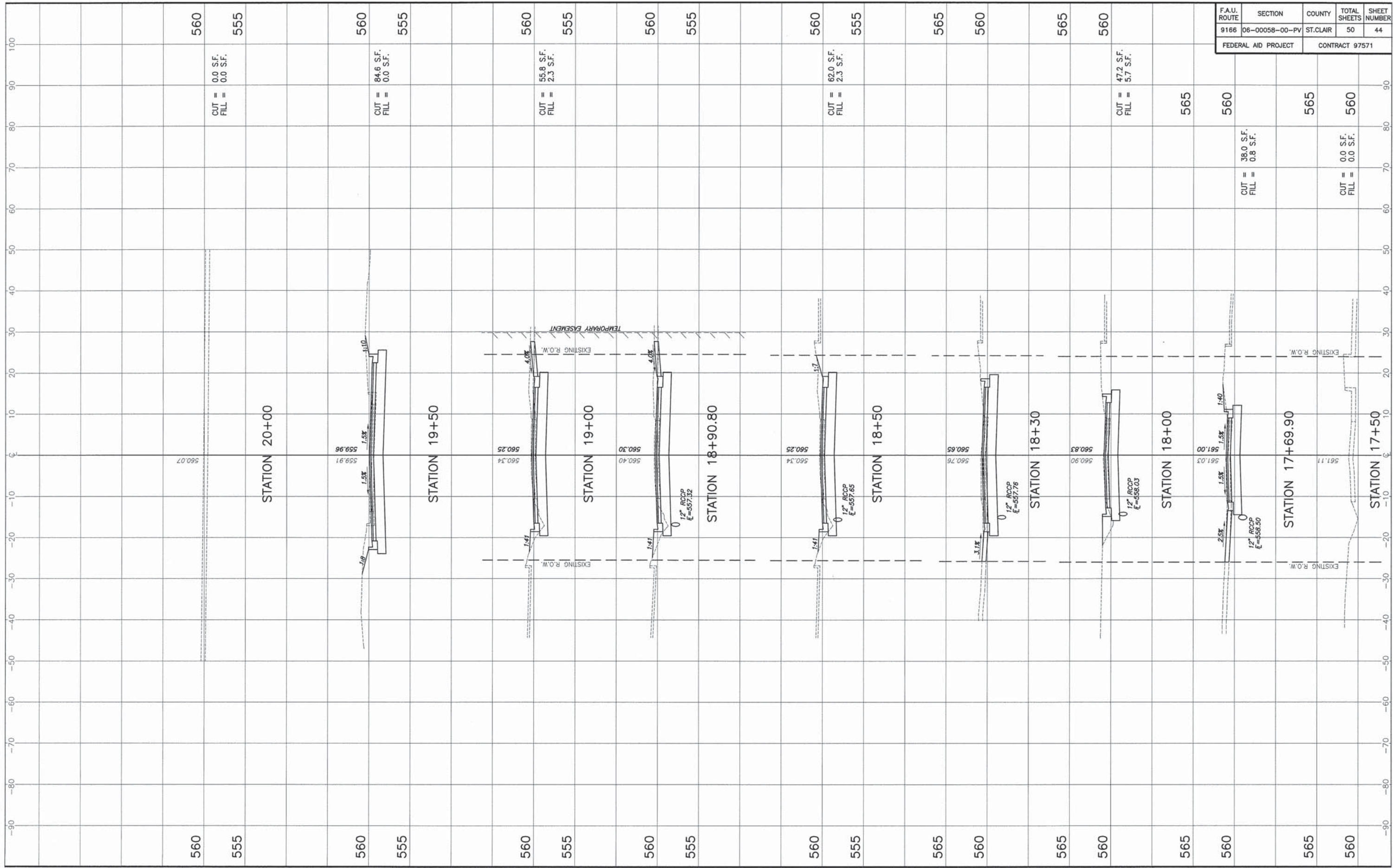
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	43
FEDERAL AID PROJECT		CONTRACT 97571		



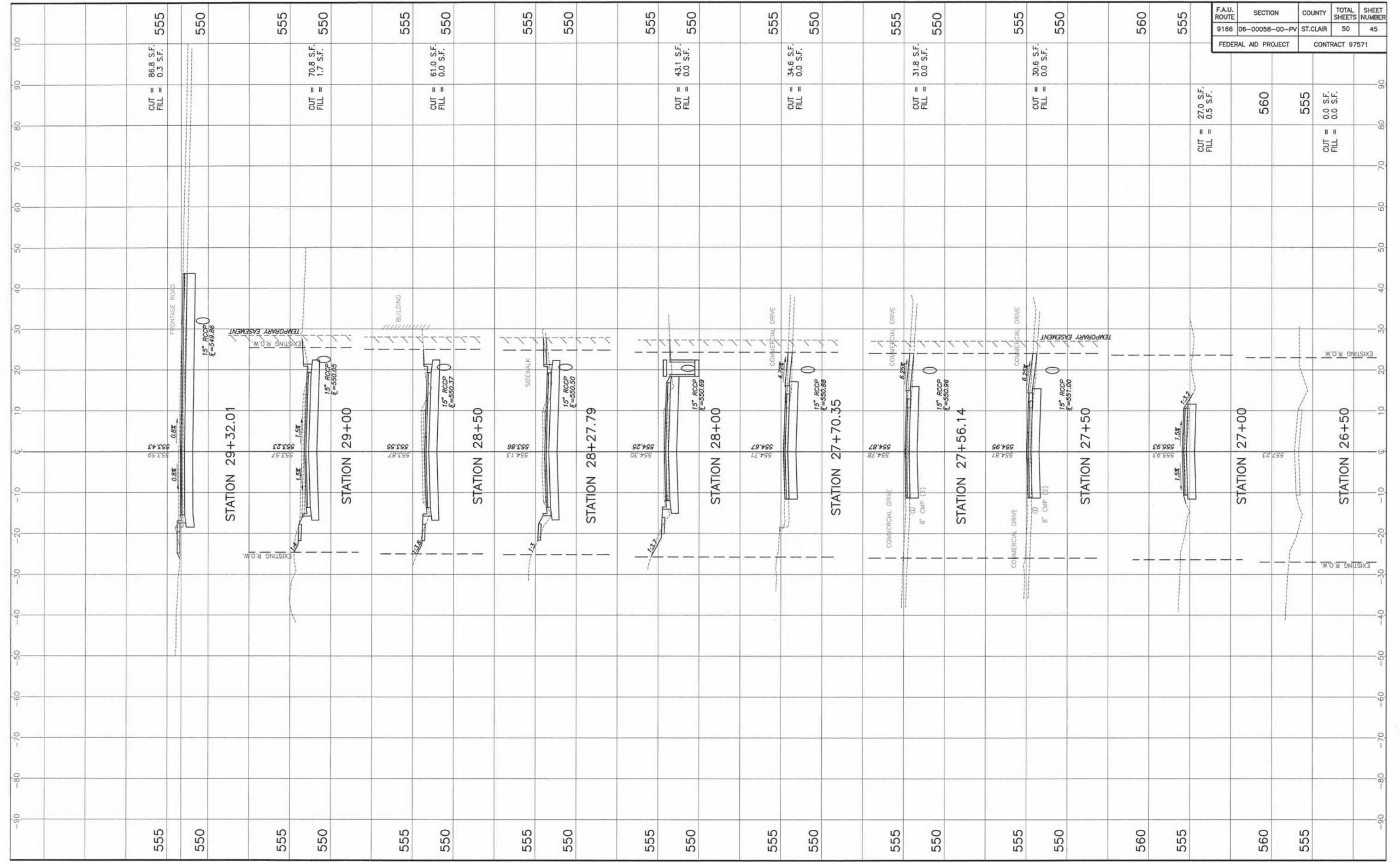
STA. 8+00 - STA. 10+00 CASTLE ACRES DRIVE CROSS SECTIONS WEST HIGHWAY 50 CONGESTION IMPROVEMENTS SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	44
FEDERAL AID PROJECT		CONTRACT 97571		

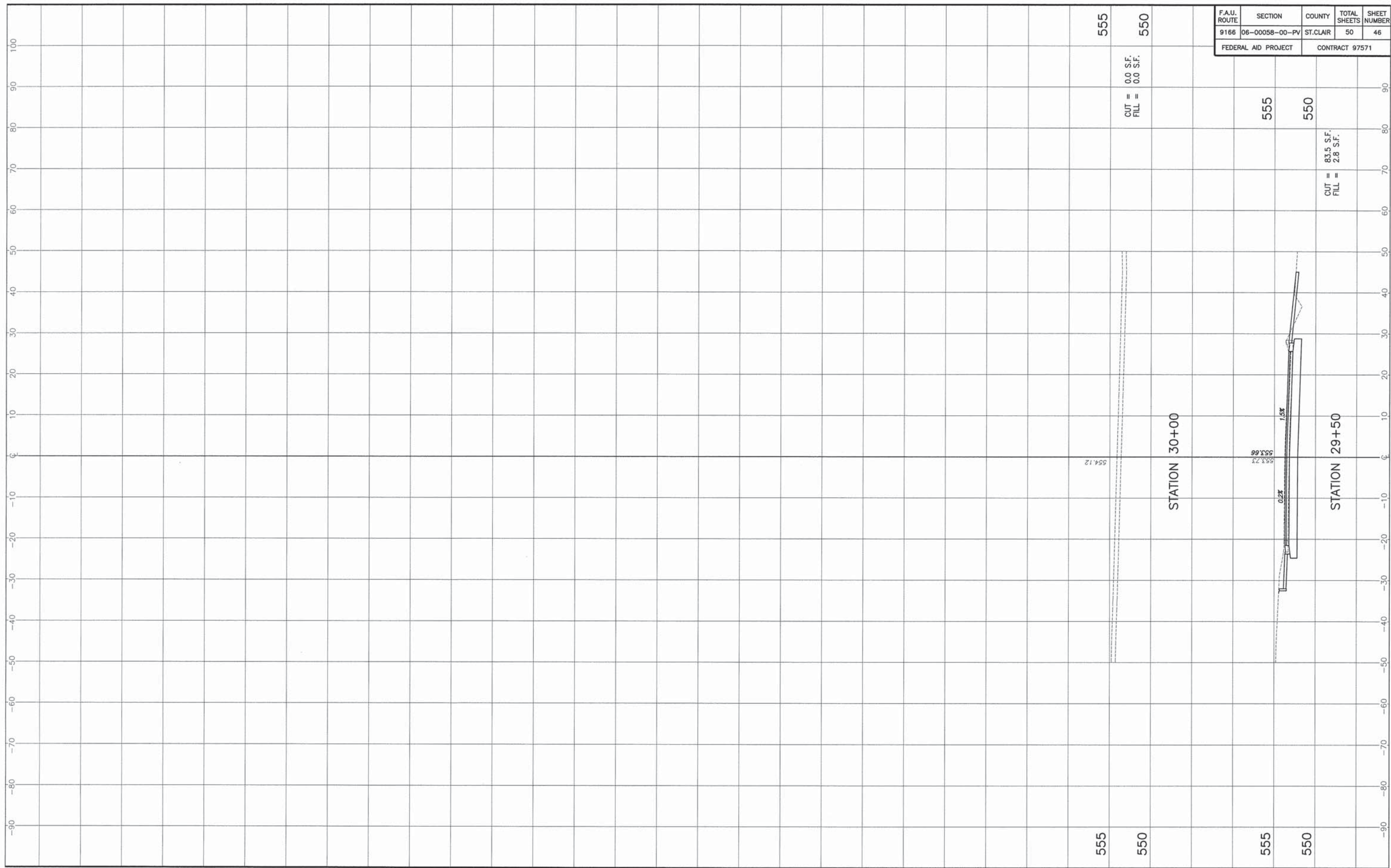


STA. 17+50 - STA. 20+00 DEAN DRIVE CROSS SECTIONS WEST HIGHWAY 50 CONGESTION IMPROVEMENTS SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	45
FEDERAL AID PROJECT		CONTRACT 97571		

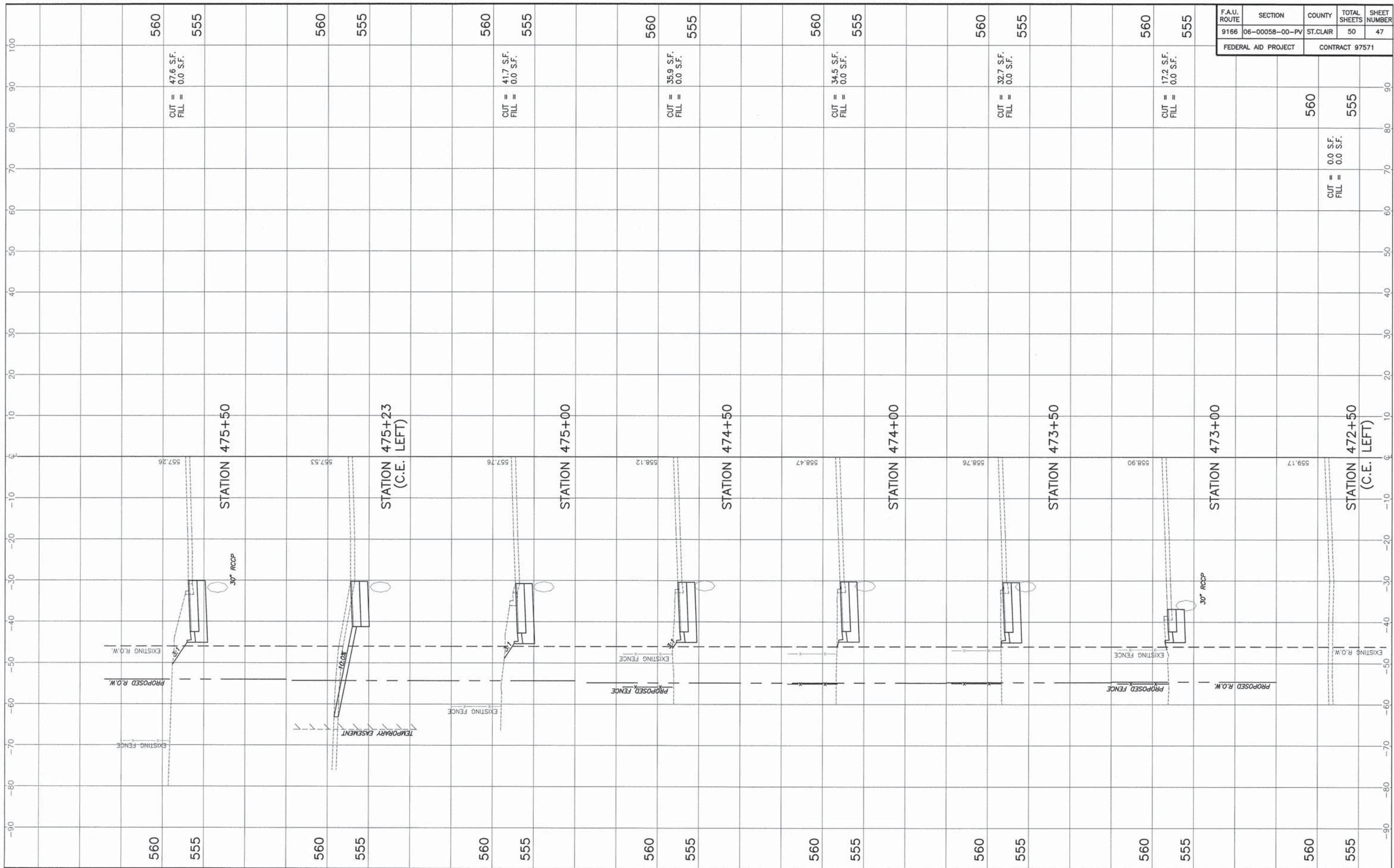


STA. 26+50 - STA. 29+32.01 LONG DRIVE CROSS SECTIONS WEST HIGHWAY 50 CONGESTION IMPROVEMENTS SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS

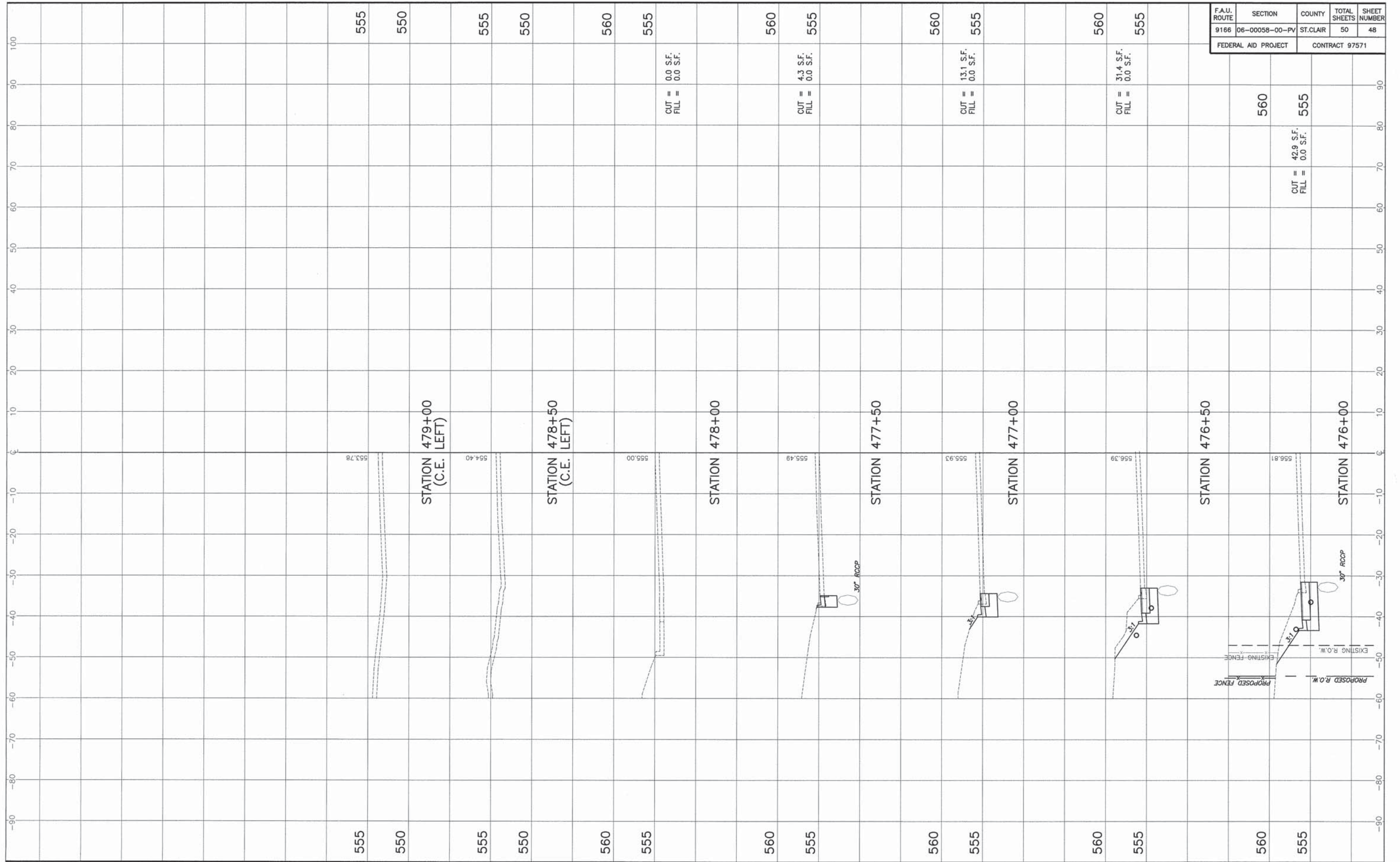


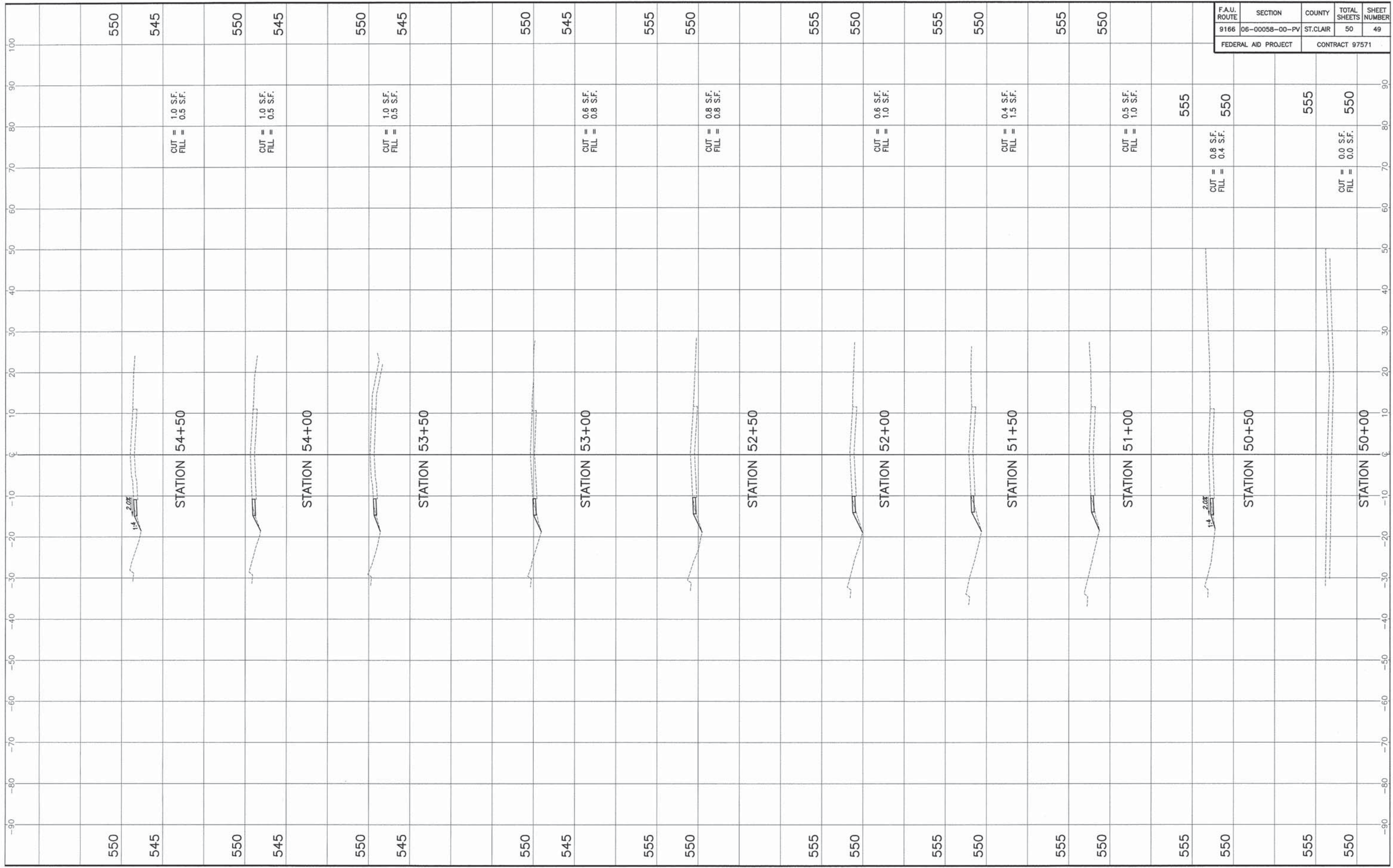
STA. 29+50 - STA. 30+00 LONG DRIVE CROSS SECTIONS WEST HIGHWAY 50 CONGESTION IMPROVEMENTS
SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	47
FEDERAL AID PROJECT		CONTRACT 97571		



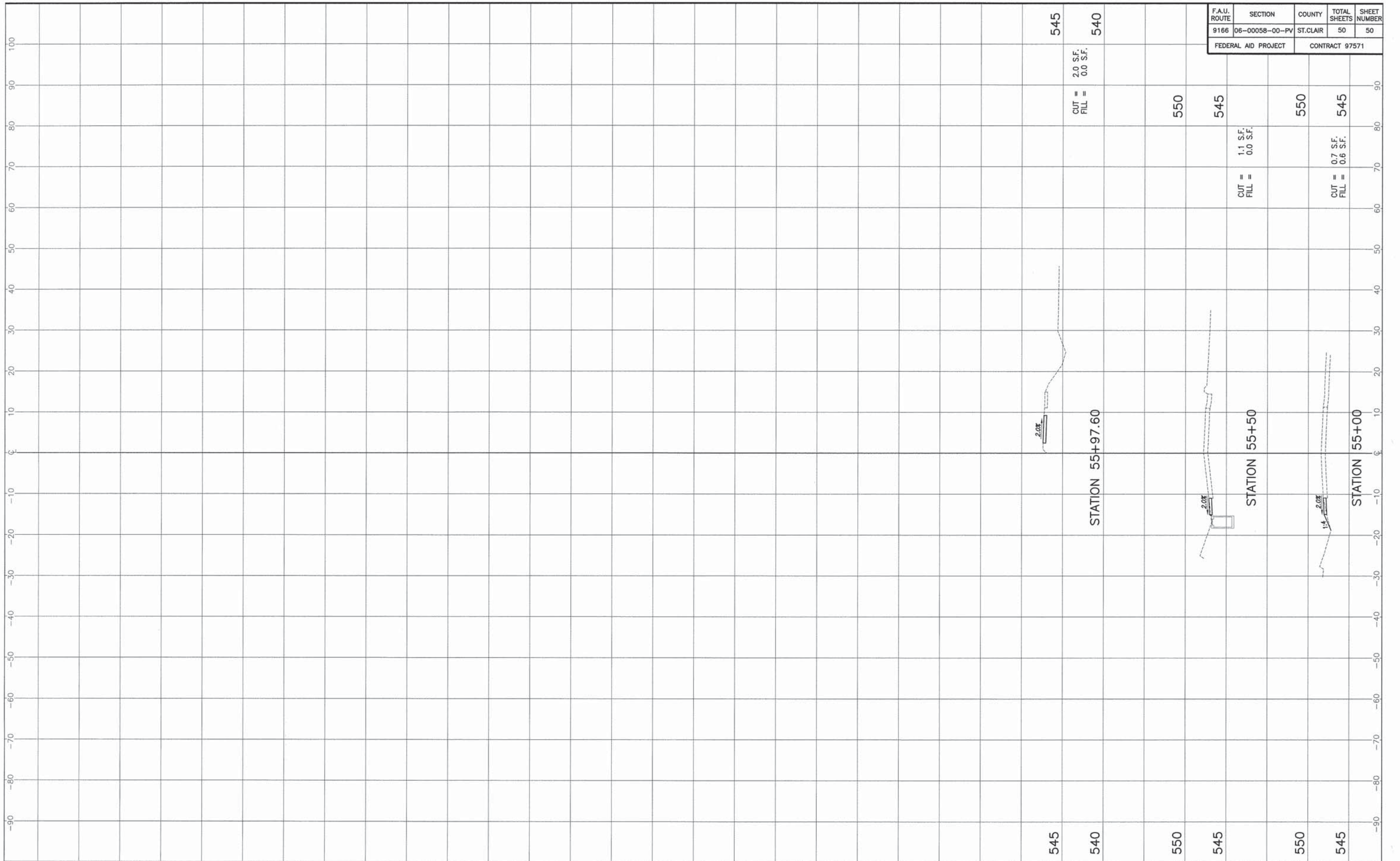
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	48
FEDERAL AID PROJECT			CONTRACT 97571	





F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	49
FEDERAL AID PROJECT			CONTRACT 97571	

STA. 50+00 - STA. 54+50 FRONTAGE ROAD CROSS SECTIONS WEST HIGHWAY 50 CONGESTION IMPROVEMENTS SECTION 06-00058-00-PV ST. CLAIR COUNTY, ILLINOIS



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
9166	06-00058-00-PV	ST. CLAIR	50	50
FEDERAL AID PROJECT		CONTRACT 97571		