

04-26-2019 LETTING ITEM 167

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
LOCAL AGENCY PROJECT**

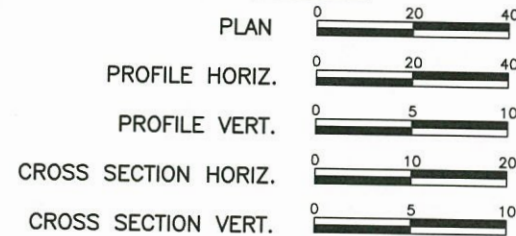
FAU ROUTE 9170 (SIMMONS ROAD)
SIMMONS ROAD IMPROVEMENTS
SECTION 15-00053-01-PV
PROJECT NO. 7DJI(310)
CITY OF O'FALLON, ILLINOIS
ST. CLAIR COUNTY
JOB NO. C-98-054-19
STP-S PROGRAM

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 1 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



- INDEX OF SHEETS**
- COVER SHEET
 - GENERAL NOTES, HIGHWAY STANDARDS, AND COMMITMENTS
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SCALES:

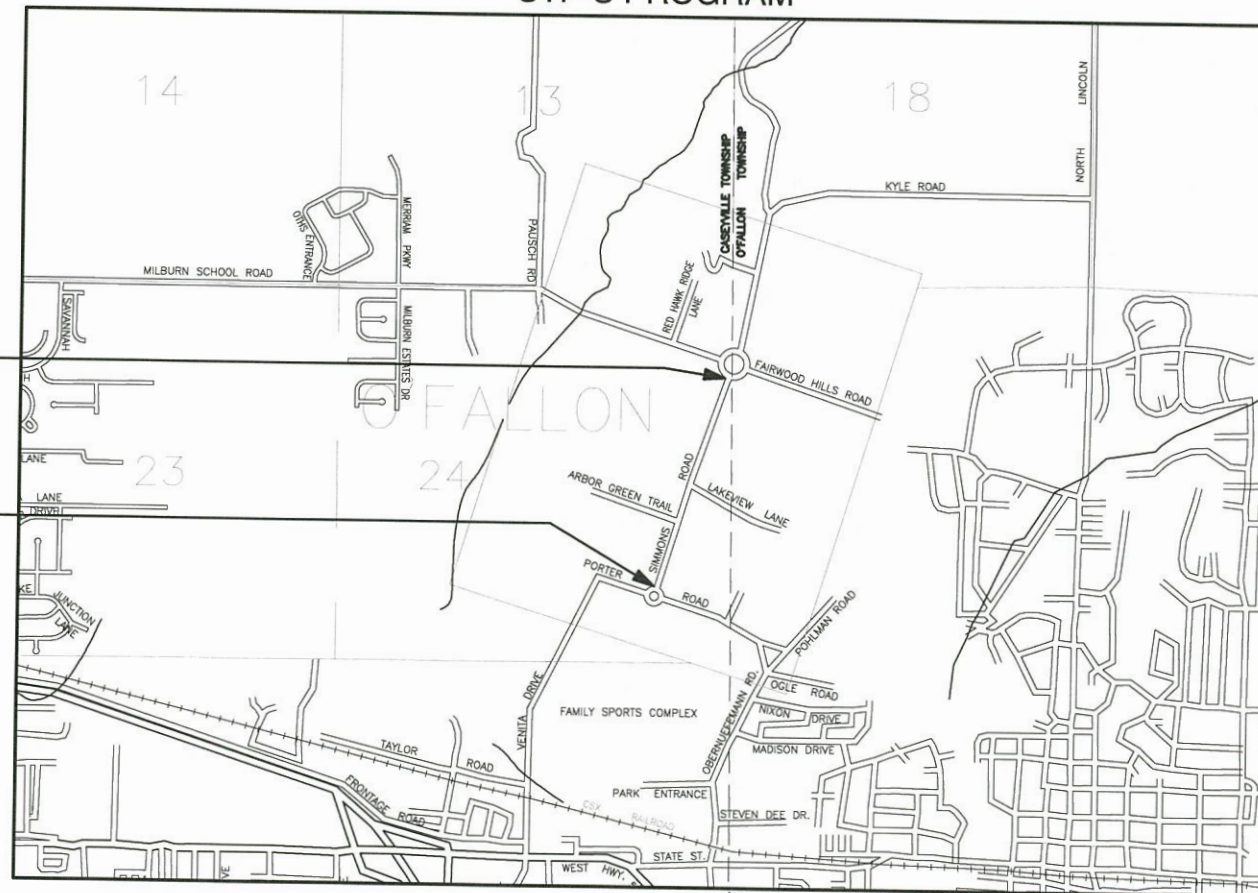


SIMMONS ROAD

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

ADT: CURRENT (2018) 9,000
20-YEAR (2038) 10,000
SU = 2.0%

END PROJECT
STA. 39+51.00
T. 2 N.
BEGIN PROJECT
STA. 10+91.17



LOCATION MAP
SCALE: 1" = 1200'

| SECTION 15-00053-01-PV: | STA. 10+91.17 TO 39+51.00 | GROSS LENGTH | NET LENGTH |
|-------------------------|---------------------------|-----------------------------------|-----------------------------------|
| | | 2,859.83 FT. = 0.541 MILES | 2,859.83 FT. = 0.541 MILES |
| TOTAL | | 2,859.83 FT. = 0.541 MILES | 2,859.83 FT. = 0.541 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 2/22/19 DATE
[Signature]
MAYOR, CITY OF O'FALLON

PASSED February 22, 2019 DATE
[Signature]
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW February 22, 2019 DATE
[Signature]
REGION FIVE ENGINEER

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

[Signature]
Mark A. Rujawitz
51927 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
Date of Signing 2/21/2019
Date of License Expiration 11/30/2019

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

CORPORATE OFFICE
4 INDUSTRIAL DRIVE
FREDERICK, ILLINOIS 62443
(618) 539-3178

REGIONAL OFFICE
7 CARPENTER DRIVE
SALEM, ILLINOIS 62881
(618) 532-1892

GENERAL NOTES

- 1.) A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT FOR PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE PLANS. SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE FINAL HMA SURFACE AS NECESSARY.
- 2.) ALL TEMPORARY PAVEMENT MARKING WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 3.) THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
- 4.) ALL AREAS DISTURBED FOR ANY REASON WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 2 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.
- 5.) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 6.) AN ESTIMATED 1415 TONS OF HMA SURFACE WILL BE REMOVED FROM THIS PROJECT.
- 7.) THE CONTRACTOR MAY REMOVE HOT-MIX ASPHALT SURFACE AND OIL & CHIP ROADWAY BASE MATERIAL IN ONE OPERATION.
- 8.) THE COST OF REMOVING AND RELOCATING ALL EXISTING TRAFFIC SIGNS, MAILBOXES, AND STREET SIGNS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 9.) 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.
- 10.) 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 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 |

SEEDING

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

FOR THIS PROJECT, HMA MIXTURE REQUIREMENTS ARE AS FOLLOWS:

| MIXTURE USE(S) | SURFACE COURSE | BINDER COURSE |
|-------------------------------------|----------------|----------------|
| AC/PG | PG 64-22 | PG 64-22 |
| RAP % (MAX.) | 15% | 25% |
| DESIGN AIR VOIDS | 4.0% @ Ndes=70 | 4.0% @ Ndes=70 |
| MIX COMPOSITION (GRADATION MIXTURE) | | IL-19.0 |
| FRICTION AGG | MIXTURE D | MIXTURE B |

- 11.) CHANGES IN THE VERTICAL OR HORIZONTAL DIMENSIONS OF GUTTERS, CURBS, OR CURB AND 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 PLAN SCHEDULE.
- 12.) THE REMOVAL OF ANY CURB/CURB AND GUTTER SHALL ALSO INCLUDE THE DISCONNECTION OF THE EXISTING CURB/CURB AND GUTTER AND GUTTER FROM ANY REINFORCEMENT OR COLLATERAL MATERIAL THAT MAY BE PRESENTLY ATTACHED. THERE SHALL NOT BE ANY ADDITIONAL RENUMERATION AND THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM.
- 13.) WHERE PROPOSED CONCRETE PAVEMENT OR PCC CURB AND GUTTER IS TO BE CONSTRUCTED ADJACENT TO EXISTING CONCRETE PAVEMENT OR PCC CURB AND GUTTER, THE CONTRACTOR SHALL DRILL AND GROUT NO. 6 X 30 EPOXY COATED TIE BARS AT 30" CENTERS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PCC PAVEMENT 8" OR COMBINATION CONCRETE CURB AND GUTTER AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 14.) THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT.
- 15.) TEMPORARY CONSTRUCTION EASEMENTS, WHICH PROVIDE FOR WORK THAT IS TO BE DONE, ARE DEPICTED ON THE PLANS AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THAT WHICH IS NECESSARY TO ADJUST THE PROPERTY TO THAT REQUIRED BY THE CONTRACT PLANS. THE CONTRACTOR SHALL NOT USE THE EASEMENT AREAS FOR STORAGE OF MATERIAL OR EQUIPMENT.

APPLICABLE IDOT HIGHWAY STANDARDS:

| | |
|-----------|-------------|
| 000001-07 | 602601-06 |
| 001006 | 604006-05 |
| 280001-07 | 606001-07 |
| 542301-03 | 701006-05 |
| 602301-04 | 701311-03 |
| 602306-03 | 701901-08 |
| 602401-06 | 780001-05 |
| 602402-02 | B.L.R. 22-7 |
| 602406-10 | |

| <u>UTILITY TYPE</u> | <u>NAME OF UTILITY</u> | <u>PHONE NUMBER</u> | <u>CONTACT NAME</u> |
|---------------------|---------------------------|---------------------|---------------------|
| ELECTRIC | AMEREN IP | 618-236-6265 | ROB ROEHRIG |
| GAS | AMEREN IP | 618-236-4338 | KEN KELEHER |
| 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 | 314-455-9152 | KEVIN WALTZ |
| SANITARY SEWER | CASEYVILLE TOWNSHIP | 618-632-2414 | RANDY LAPERE |
| FIBER OPTIC | CLEAR WAVE COMMUNICATIONS | 618-294-8078 | ROTH CLAYTON |

COMMITMENTS

NONE AT THIS TIME.

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 2 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

SUMMARY OF QUANTITIES

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY |
|----------|------------------------------------------------------|-------|----------------|
| 20200100 | EARTH EXCAVATION | CU YD | 5,490 |
| 20800150 | TRENCH BACKFILL | CU YD | 1,040 |
| 25000200 | SEEDING, CLASS 2 | ACRE | 1.75 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 158 |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 158 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 158 |
| 25100115 | MULCH, METHOD 2 | ACRE | 1.75 |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 300 |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 175 |
| 28000305 | TEMPORARY DITCH CHECKS | FOOT | 54 |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 695 |
| 28000500 | INLET AND PIPE PROTECTION | EACH | 60 |
| 28100205 | STONE RIPRAP, CLASS A3 | TONS | 20 |
| 31100910 | SUB-BASE GRANULAR MATERIAL, TYPE A 12" | SQ YD | 11,214 |
| 40201000 | AGGREGATE FOR TEMPORARY ACCESS | TONS | 100 |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 20,833 |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 4,167 |
| 40603085 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | TON | 3,111 |
| 40603340 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 | TON | 1,037 |
| 42300200 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH | SQ YD | 100 |
| 42400100 | PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH | SQ FT | 8,367 |
| 42400300 | PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH | SQ FT | 654 |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 24 |
| 44000161 | HOT-MIX ASPHALT SURFACE REMOVAL, 3" | SQ YD | 8,365 |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 240 |
| 44000400 | GUTTER REMOVAL | FOOT | 61 |
| 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 42 |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 241 |
| 50105220 | PIPE CULVERT REMOVAL | FOOT | 334 |
| 54213657 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12" | EACH | 1 |
| 54213669 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" | EACH | 2 |
| 54213675 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30" | EACH | 1 |
| 550A2320 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12" | FOOT | 1,208 |
| 550A2340 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18" | FOOT | 1,944 |
| 550A2360 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24" | FOOT | 778 |
| 550A2380 | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 30" | FOOT | 12 |
| 60218500 | MANHOLES, TYPE A-4' DIAMETER, TYPE 3 FRAME AND GRATE | EACH | 7 |
| 60221200 | MANHOLES, TYPE A-5' DIAMETER, TYPE 3 FRAME AND GRATE | EACH | 2 |
| 60223810 | MANHOLES, TYPE A-6' DIAMETER, TYPE 3 FRAME AND GRATE | EACH | 1 |
| 60235700 | INLETS, TYPE A, TYPE 3 FRAME AND GRATE | EACH | 8 |

SUMMARY OF QUANTITIES

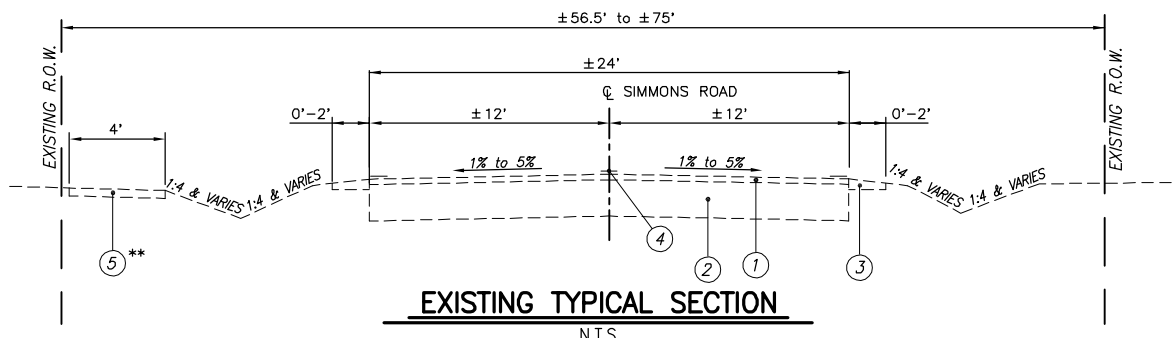
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY |
|------------|------------------------------------------------------|-------|----------------|
| 60240220 | INLETS, TYPE B, TYPE 3 FRAME AND GRATE | EACH | 27 |
| 60605000 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | FOOT | 5,720 |
| 67100100 | MOBILIZATION | L SUM | 1 |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 744 |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 248 |
| 70300210 | TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 31 |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 7,152 |
| 70300260 | TEMPORARY PAVEMENT MARKING - LINE 12" | FOOT | 194 |
| △ 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 31 |
| △ 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 7,152 |
| △ 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 194 |
| X1700066 | POTHOLING | EACH | 5 |
| X6024242 | INLETS, SPECIAL, NO. 1 | EACH | 11 |
| X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | L SUM | 1 |
| X7030005 | TEMPORARY PAVEMENT MARKING REMOVAL | SQ FT | 2,605 |
| Z0033700 | LONGITUDINAL JOINT SEALANT | FOOT | 5,720 |
| # Z0076600 | TRAINEES | HOURL | 500 |
| # Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE | HOURL | 500 |

△ SPECIALTY ITEMS

0042

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 3 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 4 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

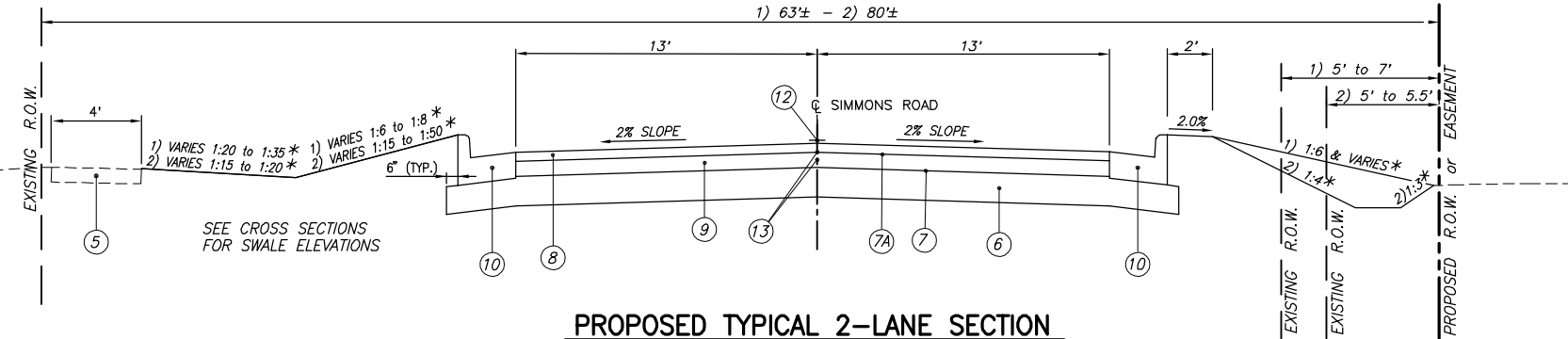


EXISTING TYPICAL SECTION
N.T.S.
STA. 10+91.17 TO STA. 39+51.00
**STA. 10+91.17 TO STA. 25+01.33

LEGEND

- ① EXISTING HOT-MIX ASPHALT RESURFACING, ±3" (TO BE REMOVED)
- ② EXISTING OIL & CHIP PAVEMENT, 12"+
- ③ EXISTING AGGREGATE WEDGE
- ④ EXISTING PAVEMENT MARKINGS
- ⑤ EXISTING SIDEWALK
- ⑥ SUB-BASE GRANULAR MATERIAL, TYPE A, 12"
- ⑦ BITUMINOUS MATERIALS (PRIME COAT)
- ⑦A BITUMINOUS MATERIALS (TACK COAT)
- ⑧ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"
- ⑨ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6"
- ⑩ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑪ P.C.C. SIDEWALK, 4"
- ⑫ THERMOPLASTIC PAVEMENT MARKING
- ⑬ LONGITUDINAL JOINT SEALANT

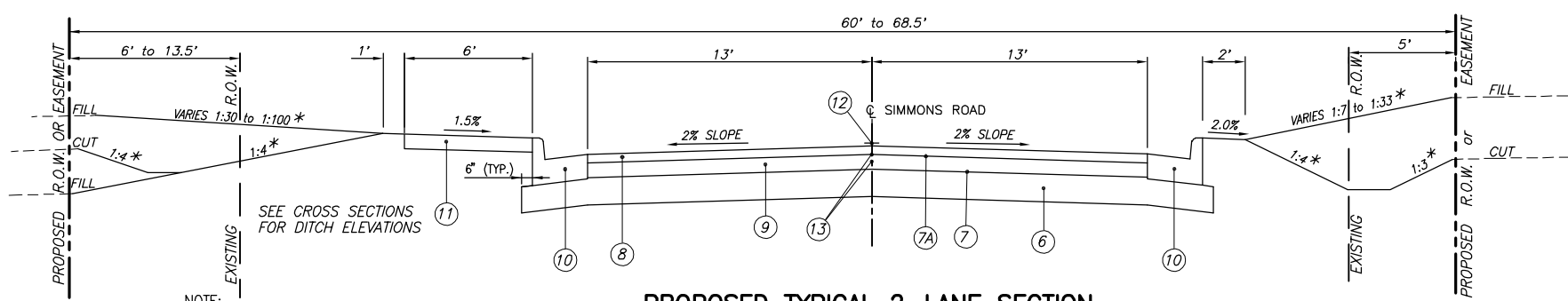
NOTE:
LONGITUDINAL JOINT SEALANT WILL BE PLACED UNDER THE THE SURFACE LIFT AND UNDER THE TOP BINDER LIFT.



PROPOSED TYPICAL 2-LANE SECTION
N.T.S.
1) STA. 10+91.17 TO STA. 12+86.70
2) STA. 21+87.70 TO STA. 25+01.33
* SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES

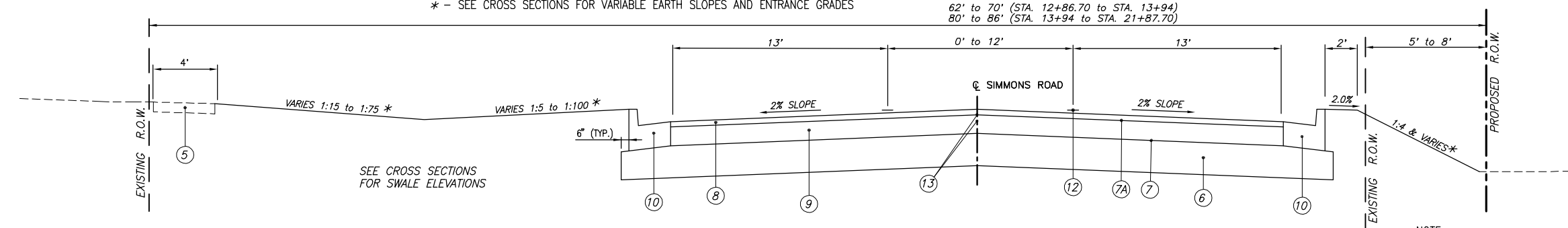
PAVEMENT DESIGN

| | |
|------------------------------------------------------|---------------------------------------------|
| STRUCTURAL DESIGN TRAFFIC: | YEAR 2028 |
| PV= | 9,300 |
| SU= | 150 |
| MU= | 50 |
| 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= 0.37 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 |



PROPOSED TYPICAL 2-LANE SECTION
N.T.S.
STA. 25+01.33 TO STA. 39+51.00
* - SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES

NOTE:
SIDEWALK OFFSET TRANSITIONS
STA. 25+01.33 TO STA. 26+47.22



PROPOSED TYPICAL 3-LANE SECTION
N.T.S.
STA. 12+86.70 TO STA. 21+87.70
* SEE CROSS SECTIONS FOR VARIABLE EARTH SLOPES AND ENTRANCE GRADES

NOTE:
TRANSITION FROM 0' TO 12' FOR LEFT-TURN LANE OCCURS STA. 12+86.70 TO STA. 15+56.70 AND TRANSITION FROM 12' TO 0' OCCURS STA. 19+17.70 TO STA. 21+87.70

INLET AND PIPE PROTECTION SCHEDULE

| LOCATION | INLET AND PIPE PROTECTION | TEMPORARY DITCH CHECKS |
|--------------------------------------|---------------------------|------------------------|
| | EACH | FOOT |
| STA. 10+95, 19' LT. | 1 | |
| STA. 11+40, 15' LT. | 1 | |
| STA. 11+40, 15' RT. | 1 | |
| STA. 12+65, 15' LT. | 1 | |
| STA. 12+65, 15' RT. | 1 | |
| STA. 13+87, 26' LT. | 1 | |
| STA. 13+90, 17' LT. | 1 | |
| STA. 13+90, 17' RT. | 1 | |
| STA. 15+15, 20' LT. | 1 | |
| STA. 15+15, 20' RT. | 1 | |
| STA. 16+38, 35' LT. | 1 | |
| STA. 16+38, 21' LT. | 1 | |
| STA. 16+38, 21' RT. | 1 | |
| STA. 17+65, 21' LT. | 1 | |
| STA. 17+65, 21' RT. | 1 | |
| STA. 18+18, 35' LT. | 1 | |
| STA. 18+18, 22' LT. | 1 | |
| STA. 19+00, 21' LT. | 1 | |
| STA. 19+00, 21' RT. | 1 | |
| STA. 20+05, 19' LT. | 1 | |
| STA. 20+05, 19' RT. | 1 | |
| STA. 21+11, 33' LT. | 1 | |
| STA. 21+11, 17' LT. | 1 | |
| STA. 21+11, 17' RT. | 1 | |
| STA. 21+50, 25' RT. | | 8 |
| STA. 22+15, 15' LT. | 1 | |
| STA. 22+15, 15' RT. | 1 | |
| STA. 23+00, 25' RT. | | 8 |
| STA. 23+19, 31' LT. | 1 | |
| STA. 23+19, 15' LT. | 1 | |
| STA. 23+19, 15' RT. | 1 | |
| STA. 23+72, 15' LT. | 1 | |
| STA. 23+72, 20' RT. | 1 | |
| STA. 23+72, 38' RT. | 1 | |
| STA. 23+77, 26' RT. | 1 | |
| STA. 102+15, 33' LT. (LAKEVIEW LANE) | | 6 |
| SUBTOTAL | 33 | 22 |

| LOCATION | INLET AND PIPE PROTECTION | TEMPORARY DITCH CHECKS |
|---------------------|---------------------------|------------------------|
| | EACH | FOOT |
| STA. 24+50, 23' RT. | | 8 |
| STA. 25+00, 15' LT. | 1 | |
| STA. 25+00, 15' RT. | 1 | |
| STA. 25+10, 26' LT. | 1 | |
| STA. 25+50, 23' RT. | | 8 |
| STA. 27+50, 23' RT. | | 8 |
| STA. 28+05, 27' LT. | 1 | |
| STA. 25+05, 15' LT. | 1 | |
| STA. 28+05, 15' RT. | 1 | |
| STA. 28+50, 24' RT. | | 8 |
| STA. 29+40, 27' LT. | 1 | |
| STA. 29+40, 15' LT. | 1 | |
| STA. 29+50, 15' RT. | 1 | |
| STA. 29+50, 24' RT. | 1 | |
| STA. 31+07, 15' LT. | 1 | |
| STA. 31+07, 15' RT. | 1 | |
| STA. 31+07, 21' RT. | 1 | |
| STA. 32+50, 15' LT. | 1 | |
| STA. 32+50, 15' RT. | 1 | |
| STA. 33+50, 15' LT. | 1 | |
| STA. 33+50, 15' RT. | 1 | |
| STA. 34+50, 15' LT. | 1 | |
| STA. 34+50, 15' RT. | 1 | |
| STA. 34+54, 42' LT. | 1 | |
| STA. 36+36, 52' LT. | 1 | |
| STA. 36+43, 15' LT. | 1 | |
| STA. 36+43, 15' RT. | 1 | |
| STA. 37+22, 15' RT. | 1 | |
| STA. 37+22, 21' RT. | 1 | |
| STA. 38+25, 15' LT. | 1 | |
| STA. 38+25, 15' RT. | 1 | |
| SUBTOTAL | 27 | 32 |
| TOTAL | 60 | 54 |

EROSION CONTROL BLANKET

| LOCATION | EROSION CONTROL BLANKET SQ YD |
|---------------------------|-------------------------------|
| STA. 100+40 TO 101+80 LT. | 140 |
| STA. 35+75 TO 36+75 LT. | 160 |
| TOTAL | 300 |

PERIMETER EROSION BARRIER / RIPRAP SCHEDULE

| LOCATION | PERIMETER EROSION BARRIER | STONE RIPRAP, CLASS A3 |
|-------------------------|---------------------------|------------------------|
| | FOOT | TONS |
| STA. 33+00 TO 39+50 LT. | 695 | |
| STA. 23+71.40 RT. | | 6 |
| STA. 34+54.45 LT. | | 7 |
| STA. 36+36.45 LT. | | 7 |
| TOTAL | 695 | 20 |

NOTE: SEE EROSION CONTROL PLAN FOR PLACEMENT OF PERIMETER EROSION BARRIER

SEEDING SCHEDULE

| LOCATION | SEEDING CLASS 2 ACRE | MULCH METHOD 2 ACRE | FERTILIZER NUTRIENTS | | | TEMPORARY EROSION CONTROL SEEDING POUND |
|---------------------|----------------------|---------------------|----------------------|------------------|-----------------|-----------------------------------------|
| | | | NITROGEN POUND | PHOSPHORUS POUND | POTASSIUM POUND | |
| STA. 10+91 TO 23+86 | 1.0 | 1.0 | 90 | 90 | 90 | 100 |
| STA. 23+86 TO 39+50 | 0.75 | 0.75 | 68 | 68 | 68 | 75 |
| TOTAL | 1.75 | 1.75 | 158 | 158 | 158 | 175 |

PAVEMENT MARKING SCHEDULE

| LOCATION | THERMOPLASTIC PAVEMENT MARKINGS / TEMPORARY PAVEMENT MARKINGS | | | | SHORT-TERM PAVEMENT MARKING | SHORT TERM PAVEMENT MARKING REMOVAL |
|-----------------------------|---------------------------------------------------------------|----------------------------------|--------------------------------|---------------------|-----------------------------|-------------------------------------|
| | SOLID WHITE 4" LANE LINE | SOLID DOUBLE YELLOW 4" LANE LINE | SOLID YELLOW 12" DIAGONAL LINE | LETTERS AND SYMBOLS | | |
| | FOOT | FOOT | FOOT | SQ. FT. | | |
| STA. 10+91 TO 12+87 C | | 392 | | | 40 | 13.3 |
| STA. 12+87 TO 17+13 LT./RT. | | 1,641 | 104 | | 176 | 58.7 |
| STA. 17+13 TO 18+28 LT. | | 230 | | | 32 | 10.7 |
| STA. 17+13 TO 18+28 C | | | | 31.2 | | |
| STA. 17+13 TO 18+28 RT. | 115 | | | | 16 | 5.3 |
| STA. 18+67 TO 21+88 LT./RT. | | 1,248 | 90 | | 128 | 42.7 |
| STA. 21+88 TO 23+86 C | | 396 | | | 40 | 13.3 |
| STA. 23+86 TO 39+51 C | | 3,130 | | | 312 | 104.0 |
| TOTAL | 115 | 7,037 | 194 | 31.2 | 744 | 248 |
| TOTAL: | 7,152 | | | | | |

NOTE: ALL LETTERS AND SYMBOLS ARE WHITE TURN ARROWS.

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 5 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |

CURB AND GUTTER SCHEDULE

| LOCATION | C & G TYPE B-6.24 |
|-----------------------------|-------------------------|
| | FOOT |
| STA. 10+91 TO 18+39 LT | 766 |
| STA. 10+91 TO 18+47 RT | 756 |
| STA. 18+47 TO 23+44 RT | 503 |
| STA. 18+65 TO 23+86 LT | 539 |
| STA. 23+62 TO 23+86 RT | 28 |
| STA. 23+86 TO 39+51 LT / RT | 3,128 |
| TOTAL | 5,720 |

ENTRANCE / SIDEROAD SCHEDULE

| STATION | EXISTING SURFACE | TYPE | "L" | "W" | DRIVEWAY PVM'T REMOVAL | PCC DRIVEWAY PAVEMENT, 6" | COMMENTS |
|--------------|------------------|------|------|------|---------------------------|------------------------------|---------------------|
| | | | FOOT | FOOT | SQ. YD. | SQ. YD. | |
| 23+53.85 RT. | HMA/OIL & CHIP | S.R. | 23.6 | 15.3 | 58.3 | * | * - MAINLINE PAVING |
| 26+40.00 LT. | TURF | F.E. | 10.3 | 24.0 | | 11.5 | |
| 28+27.56 LT. | HMA | P.E. | 10.6 | 12.0 | 24.2 | 6.3 | |
| 30+44.40 RT. | OIL & CHIP | C.E. | 7.7 | 60.0 | 80.8 | 55.4 | |
| 31+27.86 LT. | HMA/P.C.C. | P.E. | 11.3 | 12.0 | 27.6 | 7.0 | |
| 32+71.26 LT. | HMA | P.E. | 11.5 | 13.0 | 31.9 | 8.0 | |
| 37+03.60 RT. | HMA | P.E. | 6.4 | 12.0 | 17.4 | 12.3 | |
| TOTAL | | | | | 240.2 | 100.5 | |

NOTES: PLEASE REFER TO ENTRANCE DETAILS ON SHEET 28 TO SEE APPLICATION OF THE DIMENSIONS.
DRIVEWAY PAVEMENT REMOVAL INCLUDES ALL SURFACE TYPES.

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|-----------------|-----------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 6 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |

MISCELLANEOUS REMOVAL SCHEDULE

| LOCATION | HOT-MIX ASPHALT SURFACE REMOVAL, 3" | COMBINATION CURB AND GUTTER REMOVAL | GUTTER REMOVAL | SIDEWALK REMOVAL |
|--------------------------------|----------------------------------------|-------------------------------------------|-------------------|---------------------|
| | SQ. YD. | FOOT | FOOT | SQ. FT. |
| STA. 10+91 TO 18+47, C | 2,393 | | | |
| STA. 10+91 TO 10+94, LT. | | 3 | | |
| STA. 10+91 TO 10+95, RT. | | 4 | | |
| STA. 18+27 TO 18+39, LT. | | | 29 | |
| STA. 18+32, LT. | | | | 30 |
| STA. 18+47 TO 23+86, C | 1,682 | | | |
| STA. 18+65 TO 18+77, LT. | | | 32 | |
| STA. 18+70, LT. | | | | 26 |
| STA. 23+86 TO 39+50, C | 4,290 | | | |
| STA. 24+55 TO 25+01, LT. | | | | 185 |
| STA. 39+49.5 TO 39+51, LT./RT. | | 3 | | |
| TOTAL | 8,365 | 10 | 61 | 241 |

MAILBOX REMOVAL AND REPLACEMENT SCHEDULE *

| EXISTING LOCATION | LT / RT | MAILBOX PROPOSED OFFSET |
|-------------------|---------|-------------------------------|
| | | FOOT |
| STA. 28+14 | LT | 17.0' |
| STA. 31+13 | LT | 17.0' |
| STA. 32+50 | LT | 17.0' |
| STA. 36+88 | RT | 17.0' |

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

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 |
| SIMMONS ROAD | | | | |
| STA. 10+91 TO 18+47 | 1,085 | 814 | 631 | +183 |
| STA. 18+47 TO 23+86 | 1,338 | 1,004 | 453 | +551 |
| LAKEVIEW LANE | | | | |
| STA. 100+00 TO 102+25 | 58 | 44 | 2 | +42 |
| SIMMONS ROAD | | | | |
| STA. 23+86 TO 39+51 | 3,007 | 2,255 | 907 | +1,348 |
| TOTAL | 5,488 | 4,117 | 1,993 | +2,124 |

NOTE: INCLUDES OIL AND CHIP PAVEMENT EXCAVATION

PCC SIDEWALK SCHEDULE

| LOCATION | P.C.C. SIDEWALK, 4" | P.C.C. SIDEWALK, 6" | DETECTABLE WARNINGS |
|-------------------------|---------------------|---------------------|---------------------|
| | SQ FT | SQ FT | SQ FT |
| STA. 18+32 LT. | 44 | | 12 |
| STA. 18+70 LT. | 38 | | 12 |
| STA. 24+55 TO 26+22 LT. | 974 | | |
| STA. 26+22 TO 26+58 LT. | | 216 | |
| STA. 26+58 TO 28+16 LT. | 948 | | |
| STA. 28+16 TO 28+40 LT. | | 144 | |
| STA. 28+40 TO 31+15 LT. | 1,652 | | |
| STA. 31+15 TO 31+39 LT. | | 144 | |
| STA. 31+39 TO 32+57 LT. | 708 | | |
| STA. 32+57 TO 32+82 LT. | | 150 | |
| STA. 32+82 TO 39+51 LT. | 4,003 | | |
| TOTAL | 8,367 | 654 | 24 |

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" | LONGITUDINAL JOINT SEALANT |
|---------------------|-------------------------------------------|--------------------------------------|--------------------------------|-------------------------------|----------------------------------------|-------------------------------|
| | SQ YD | TON | POUND | POUND | TON | FOOT |
| STA. 10+91 TO 18+47 | 3,312 | 940 | 6,293 | 1,259 | 313 | 1,512 |
| STA. 18+47 TO 23+86 | 2,311 | 654 | 4,375 | 875 | 218 | 1,078 |
| STA. 23+86 TO 39+51 | 5,591 | 1,517 | 10,165 | 2,033 | 506 | 3,130 |
| TOTAL | 11,214 | 3,111 | 20,833 | 4,167 | 1,037 | 5,720 |

DRAINAGE REMOVAL SCHEDULE

| LOCATION | DESCRIPTION | PIPE CULVERT REMOVAL | TRENCH BACKFILL |
|-----------------|-------------|-------------------------|--------------------|
| | | FOOT | CU YD |
| STA. 18+50, LT. | 12" CMP | 93 | 1 |
| STA. 23+72, C | 27"x20" CMP | 38 | 6 |
| STA. 28+28, LT. | 12" CMP | 20 | 2 |
| STA. 30+44, RT. | 12" CMP | 71 | 8 |
| STA. 31+28, LT. | 12" CMP | 20 | 2 |
| STA. 32+71, LT. | 15" CMP | 30 | 5 |
| STA. 36+42, C | 21"x24" CMP | 42 | 14 |
| STA. 37+04, RT. | 12" CMP | 20 | 1 |
| TOTAL | | 334 | 39 |

| DRAINAGE STRUCTURE SCHEDULE | | | | |
|-----------------------------|---------------------------|---------------------------------------------------------|--------|-----------------------------------------------------------|
| STRUCTURE NO. | LOCATION STATION / OFFSET | DESCRIPTION | RIM | INVERTS |
| 1 | 10+94.57 18.75'L | Inlets, Type B, Type 3 Grate | 572.01 | 568.59 N 570.07 S |
| 2 | 11+40.00 14.83'R | Inlets, Type B, Type 3 Grate | 571.88 | 568.28 N |
| 3 | 11+40.00 14.83'L | Inlets, Type B, Type 3 Grate | 571.88 | 568.45 S 568.45 N |
| 5 | 12+65.00 14.83'R | Inlets, Type B, Type 3 Grate | 571.50 | 567.90 S 567.90 N |
| 6 | 12+65.00 14.83'L | Inlets, Type B, Type 3 Grate | 571.50 | 568.07 S 568.07 N |
| 8 | 13+90.00 17.12'R | Inlets, Type B, Type 3 Grate | 571.12 | 567.53 S 567.53 N |
| 9 | 13+90.00 17.12'L | Manholes, Type A, 4'-Diameter | 571.12 | 567.69 S 567.69 N 568.43 W |
| 10 | 13+86.65 26.07'L | Inlets, Special, No. 1 - 3'x3' | 571.26 | 569.19 W 568.49 E |
| 11 | 15+15.00 19.90'R | Inlets, Type B, Type 3 Grate | 570.74 | 567.15 S 567.15 N |
| 12 | 15+15.00 19.90'L | Inlets, Type B, Type 3 Grate | 570.74 | 567.31 S 567.31 N |
| 14 | 16+38.00 20.82'R | Inlets, Type B, Type 3 Grate | 570.37 | 566.78 S 566.78 N |
| 15 | 16+38.00 20.82'L | Manholes, Type A, 4'-Diameter Type 3 Frame and Grate | 570.37 | 566.93 S 566.93 N 567.24 W |
| 16 | 16+38.00 34.62'L | Inlets, Special, No. 1 - 3'x3' | 570.22 | 567.34 E |
| 17 | 17+65.00 20.83'R | Inlets, Type B, Type 3 Grate | 569.99 | 566.40 S 566.40 N |
| 18 | 17+65.00 20.83'L | Inlets, Type B, Type 3 Grate | 569.99 | 566.55 S 566.55 N |
| 19 | 18+17.62 22.27'L | Inlets, Type B, Type 3 Grate | 569.80 | 566.39 W 566.39 N 566.39 S |
| 20 | 18+18.23 34.74'L | Inlets, Special, No. 1 - 3'x3' | 570.20 | 566.43 E |
| 22 | 19+00.00 20.83'R | Inlets, Type B, Type 3 Grate | 569.58 | 566.01 S 566.01 N |
| 23 | 19+00.00 20.83'L | Inlets, Type B, Type 3 Grate | 569.58 | 566.14 S 566.14 N |
| 24 | 20+05.00 18.85'R | Inlets, Type B, Type 3 Grate | 569.27 | 565.70 S 565.70 N |
| 25 | 20+05.00 18.85'L | Inlets, Type B, Type 3 Grate | 569.27 | 565.83 S 565.83 N |
| 26 | 21+10.70 16.54'R | Inlets, Type B, Type 3 Grate | 568.96 | 565.40 S 565.40 N |
| 27 | 21+10.70 16.52'L | Inlets, Type B, Type 3 Grate | 568.96 | 565.51 S 565.51 N 565.51 W |
| 28 | 21+10.70 33.18'L | Inlets, Special, No. 1 - 3'x3' | 568.92 | 565.90 E |
| 30 | 22+15.00 14.83'R | Inlets, Type B, Type 3 Grate | 568.65 | 565.10 S 565.10 N |
| 31 | 22+15.00 14.86'L | Inlets, Type B, Type 3 Grate | 568.65 | 565.19 S 565.19 N |
| 32 | 23+18.50 14.83'R | Inlets, Type B, Type 3 Grate | 568.41 | 564.75 S 564.75 NE |
| 33 | 23+18.50 14.83'L | Manholes, Type A, 4'-Diameter Type 3 Frame and Grate | 568.41 | 564.88 S 564.88 N 565.09 W |
| 34 | 23+18.57 30.52'L | Inlets, Special, No. 1 - 3'x3' | 568.88 | 565.22 E |
| 35 | 23+77.02 26.26'R | Inlets, Special, No. 1 - 3'x3' | 568.44 | 566.05 SW |
| 36 | 23+72.13 19.83'R | Manholes, Type A, 6'-Diameter Type 3 Frame and Grate | 568.50 | 564.59 W 564.59 E 566.00 NW 564.59 N 564.59 E |
| 37 | 23+72.42 14.83'L | Manholes, Type A, 5'-Diameter Type 3 Frame and Grate | 568.50 | 564.72 E 564.72 S |
| 40 | 23+71.36 38.04'R | 30" Flared End Section | —— | 564.55 E |

| DRAINAGE STRUCTURE SCHEDULE | | | | |
|-----------------------------|---------------------------|---------------------------------------------------------|--------|----------------------------------------------|
| STRUCTURE NO. | LOCATION STATION / OFFSET | DESCRIPTION | RIM | INVERTS |
| 38 | 25+00.00 14.83'R | Inlets, Type B, Type 3 Grate | 569.50 | 566.42 W 566.42 S |
| 39 | 25+00.00 14.83'L | Inlets, Type B, Type 3 Grate | 569.50 | 566.76 E |
| 39A | 25+10.00 26.50'L | 12" Flared End Section | —— | 569.45 N |
| 41 | 28+05.00 14.83'R | Inlets, Type A, Type 3 Grate | 569.69 | 566.72 W |
| 42 | 28+05.00 14.83'L | Inlets, Type B, Type 3 Grate | 569.69 | 566.38 N 566.38 E 566.38 W |
| 43 | 28+05.00 27.00'L | Inlets, Special, No. 1 - 3'x3' | 570.15 | 566.49 E |
| 44 | 29+50.00 24.10'R | Inlets, Special, No. 1 - 3'x3' | 568.46 | 565.50 W |
| 45 | 29+50.00 14.83'R | Inlets, Type A, Type 3 Grate | 568.72 | 565.42 W 565.42 E |
| 46 | 29+40.00 14.83'L | Manholes, Type A, 4'-Diameter Type 3 Frame and Grate | 568.79 | 565.14 S 565.14 N 565.14 E 565.14 W |
| 47 | 29+40.00 27.00'L | Inlets, Special, No. 1 - 3'x3' | 569.45 | 565.59 E |
| 48 | 31+07.00 21.45'R | Inlets, Special, No. 1 - 3'x3' | 567.58 | 564.92 W |
| 49 | 31+07.00 14.83'R | Inlets, Type A, Type 3 Grate | 568.00 | 564.89 W 564.89 E |
| 50 | 31+07.00 14.83'L | Manholes, Type A, 4'-Diameter Type 3 Frame and Grate | 568.00 | 564.50 S 564.50 N 564.68 E |
| 52 | 32+50.00 14.83'R | Inlets, Type A, Type 3 Grate | 567.57 | 564.59 W |
| 53 | 32+50.00 14.83'L | Manholes, Type A, 4'-Diameter Type 3 Frame and Grate | 567.57 | 564.01 S 564.01 N 564.25 E |
| 54 | 34+54.44 42.10'L | 24" Flared End Section | —— | 562.86 W |
| 55 | 33+50.00 14.83'R | Inlets, Type A, Type 3 Grate | 567.27 | 564.29 W |
| 56 | 33+50.00 14.83'L | Manholes, Type A, 4'-Diameter Type 3 Frame and Grate | 567.27 | 563.71 S 563.71 N 563.95 E |
| 57 | 34+50.00 14.83'R | Inlets, Type A, Type 3 Grate | 566.97 | 563.99 W |
| 58 | 34+50.00 14.83'L | Manholes, Type A, 5'-Diameter Type 3 Frame and Grate | 566.97 | 563.41 S 563.14 NW 563.65 E |
| 59 | 36+43.00 14.83'R | Inlets, Type B, Type 3 Grate | 566.07 | 563.05 W 563.19 N |
| 60 | 36+43.00 14.83'L | Inlets, Type B, Type 3 Grate | 566.07 | 562.21 N 560.21 W 562.71 E |
| 61 | 37+22.00 21.00'R | Inlets, Special, No. 1 - 3'x3' | 566.66 | 565.68 W |
| 62 | 37+22.00 14.83'R | Inlets, Type A, Type 3 Grate | 566.94 | 563.62 S 563.64 E |
| 63 | 38+25.00 14.83'R | Inlets, Type A, Type 3 Grate | 566.96 | 564.21 W |
| 64 | 38+25.00 14.83'L | Inlets, Type B, Type 3 Grate | 566.96 | 563.87 E 563.65 S |
| 65 | 36+36.43 52.28'L | 24" Flared End Section | —— | 556.30 W |

NOTES:

OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE.
PLEASE REFER TO MISCELLANEOUS DETAIL SHEET 29 FOR DIMENSIONS OF INLET SPECIAL, TYPE SPECIFIED.
NO STEPS WILL BE NECESSARY FOR MANHOLES OF ANY SIZE.
ALL TYPE 3 RIM ELEVATIONS ARE TOP OF GRATE AT FLOWLINE OF GUTTER.
ALL INLET SPECIAL RIM ELEVATIONS ARE TOP OF FRAME IN PRECAST LID.

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 7 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 8 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |

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 | 3 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 44' | 568.59 | 568.45 | 0.32% | 14 |
| 2 | 2 | 5 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 123' | 568.28 | 567.90 | 0.31% | 37 |
| 3 | 3 | 6 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 124' | 568.45 | 568.07 | 0.31% | 34 |
| 5 | 5 | 8 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 124' | 567.90 | 567.53 | 0.30% | 28 |
| 6 | 6 | 9 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 123' | 568.07 | 567.69 | 0.31% | 34 |
| 8 | 10 | 9 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 7' | 568.49 | 568.43 | 0.86% | --- |
| 9 | 8 | 11 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 124' | 567.53 | 567.15 | 0.31% | 31 |
| 10 | 9 | 12 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 123' | 567.69 | 567.31 | 0.31% | 34 |
| 11 | 11 | 14 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 122' | 567.15 | 566.78 | 0.30% | 27 |
| 12 | 12 | 15 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 121' | 567.31 | 566.93 | 0.29% | 33 |
| 14 | 16 | 15 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 12' | 567.34 | 567.24 | 0.83% | --- |
| 15 | 14 | 17 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 125' | 566.78 | 566.40 | 0.30% | 28 |
| 16 | 15 | 18 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 125' | 566.93 | 566.55 | 0.30% | 35 |
| 17 | 18 | 19 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 51' | 566.55 | 566.39 | 0.31% | 18 |
| 18 | 20 | 19 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 11' | 566.43 | 566.39 | 0.36% | --- |
| 19 | 17 | 22 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 134' | 566.40 | 566.01 | 0.29% | 24 |
| 20 | 19 | 23 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 81' | 566.39 | 566.14 | 0.31% | 24 |
| E1 | Existing 18" RCP | 1 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 103' | 571.41 | 570.07 | 1.30% | --- |
| E2 | Existing 12" CMP | 10 | 12 inch Corrugated Metal Pipe | 12" | 19' | 569.42 | 569.19 | 1.21% | --- |
| 22 | 22 | 24 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 104' | 566.01 | 565.70 | 0.30% | 23 |
| 23 | 23 | 25 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 103' | 566.14 | 565.83 | 0.30% | 28 |
| 24 | 24 | 26 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 104' | 565.70 | 565.40 | 0.29% | 29 |
| 25 | 25 | 27 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 104' | 565.83 | 565.51 | 0.31% | 27 |
| 26 | 28 | 27 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 14' | 565.90 | 565.51 | 2.78% | --- |
| 27 | 26 | 30 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 103' | 565.40 | 565.10 | 0.29% | 26 |
| 28 | 27 | 31 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 103' | 565.51 | 565.19 | 0.31% | 27 |
| 30 | 30 | 32 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 102' | 565.10 | 564.75 | 0.34% | 31 |
| 31 | 31 | 33 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 102' | 565.19 | 564.88 | 0.30% | 26 |
| 32 | 34 | 33 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 13' | 565.22 | 565.09 | 1.00% | --- |
| 33 | 32 | 36 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 51' | 564.75 | 564.59 | 0.31% | 16 |
| 34 | 33 | 37 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 51' | 564.88 | 564.72 | 0.31% | 14 |
| 35 | 36 | 40 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 30" | 12' | 564.59 | 564.55 | 0.33% | --- |
| 36 | 35 | 36 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 5' | 566.05 | 566.00 | 1.00% | --- |
| 37 | 37 | 36 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 31' | 564.72 | 564.59 | 0.42% | 3 |

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 |
|----------|----------------------|--------------------|----------------------------------------------|-----------|-------------|-----------------------|-------------------------|------------|-----------------|
| 38 | 38 | 36 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 125' | 566.42 | 564.59 | 1.46% | 35 |
| 39 | 39 | 38 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 28' | 566.76 | 566.42 | 1.21% | 5 |
| 39A | 39A | 39 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 18' | 569.45 | 567.26 | 12.00% | 2 |
| 41 | 41 | 42 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 28' | 566.72 | 566.38 | 1.21% | 6 |
| 42 | 43 | 42 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 10' | 566.49 | 566.38 | 1.10% | --- |
| 43 | 42 | 46 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 131' | 566.38 | 565.14 | 0.95% | 37 |
| 44 | 47 | 46 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 10' | 565.59 | 565.14 | 4.50% | --- |
| 45 | 45 | 46 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 28' | 565.42 | 565.14 | 1.00% | 6 |
| 46 | 44 | 45 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 8' | 565.50 | 565.42 | 1.00% | --- |
| 47 | 46 | 50 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 163' | 565.14 | 564.50 | 0.39% | 46 |
| 49 | 49 | 50 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 28' | 564.89 | 564.68 | 0.80% | 6 |
| 50 | 48 | 49 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 6' | 564.92 | 564.89 | 0.77% | --- |
| 51 | 50 | 53 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 140' | 564.50 | 564.01 | 0.35% | 41 |
| 53 | 52 | 53 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 28' | 564.59 | 564.25 | 1.21% | 6 |
| 54 | 53 | 56 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 97' | 564.01 | 563.71 | 0.31% | 28 |
| 55 | 55 | 56 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 28' | 564.29 | 563.95 | 1.21% | 6 |
| 56 | 56 | 58 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 97' | 563.71 | 563.41 | 0.31% | 34 |
| 57 | 57 | 58 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 27' | 563.99 | 563.65 | 1.26% | 6 |
| 58 | 58 | 54 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 21' | 563.14 | 562.92 | 1.04% | --- |
| 59 | 60 | 65 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 24" | 32' | 560.21 | 558.60 | 5.03% | --- |
| 60 | 59 | 60 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 28' | 563.05 | 562.71 | 1.21% | 6 |
| 61 | 62 | 59 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 78' | 563.62 | 563.19 | 0.55% | 19 |
| 62 | 61 | 62 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 4' | 563.68 | 563.64 | 1.00% | --- |
| 63 | 64 | 60 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 18" | 181' | 563.65 | 562.21 | 0.80% | 55 |
| 64 | 63 | 64 | Storm Sewers, Rubber Gasket, Class A, Type 1 | 12" | 28' | 564.21 | 563.87 | 1.21% | 6 |

DRAINAGE STRUCTURE SUMMARY

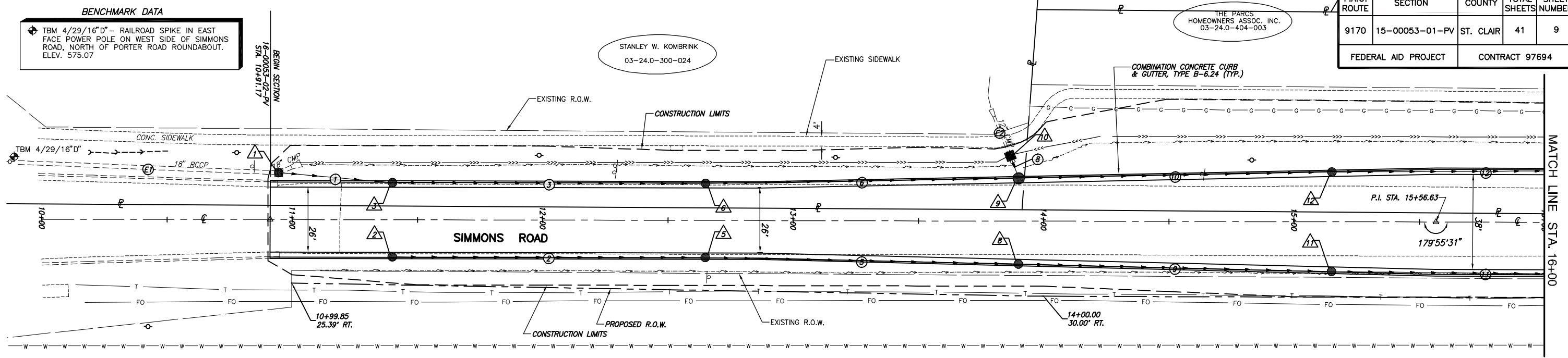
| LOCATION | INLETS, TYPE A TYPE 3 GRATE | INLETS, TYPE B TYPE 3 GRATE | INLET SPECIAL, NO. 1 (3'X3') | MANHOLES, TYPE A-4' DIA. TYPE 3 FRAME AND GRATE | MANHOLES, TYPE A-5' DIA. TYPE 3 FRAME AND GRATE | MANHOLES, TYPE A-6' DIA. TYPE 3 FRAME AND GRATE | PRECAST REINFORCED CONCRETE FLARED END SECTION 12' | PRECAST REINFORCED CONCRETE FLARED END SECTION 24' | PRECAST REINFORCED CONCRETE FLARED END SECTION 30' |
|---------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| | (EACH) | (EACH) | (EACH) | (EACH) | (EACH) | (EACH) | (EACH) | (EACH) | (EACH) |
| STA. 10+91.17 TO 39+51.00 | 8 | 27 | 11 | 7 | 2 | 1 | 1 | 2 | 1 |
| TOTAL | 8 | 27 | 11 | 7 | 2 | 1 | 1 | 2 | 1 |

STORM SEWER SUMMARY

| LOCATION | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12" | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18" | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 24" | STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 30" | TRENCH BACKFILL |
|---------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------|
| | FOOT | FOOT | FOOT | FOOT | CU. YD. |
| STA. 10+91.17 TO 39+51.00 | 1,208 | 1,944 | 778 | 12 | 1,001 |
| TOTAL | 1,208 | 1,944 | 778 | 12 | 1,001 |

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 9 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

BENCHMARK DATA
 TBM 4/29/16"D - RAILROAD SPIKE IN EAST FACE POWER POLE ON WEST SIDE OF SIMMONS ROAD, NORTH OF PORTER ROAD ROUNDABOUT. ELEV. 575.07



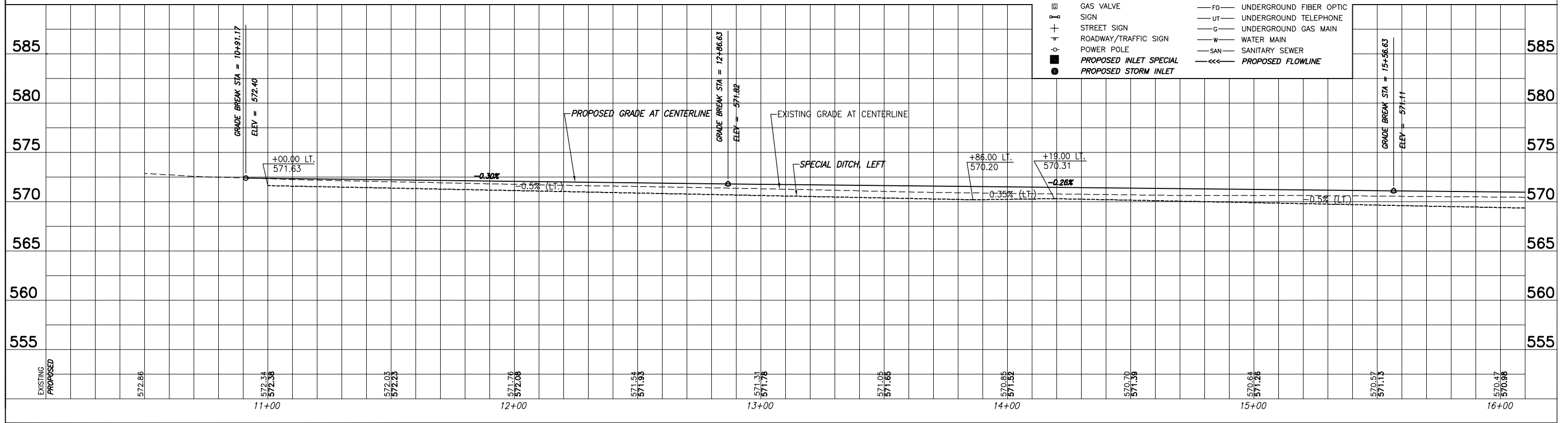
KARL DEXHEIMER TRUSTEE
 03-24.0-400-004

NOTE:
 FOR STORM LAYOUT AND DESCRIPTIONS, REFER TO DRAINAGE SCHEDULES ON SHEETS 7 AND 8, AND PROFILES ON SHEETS 24 THRU 27.

LEGEND

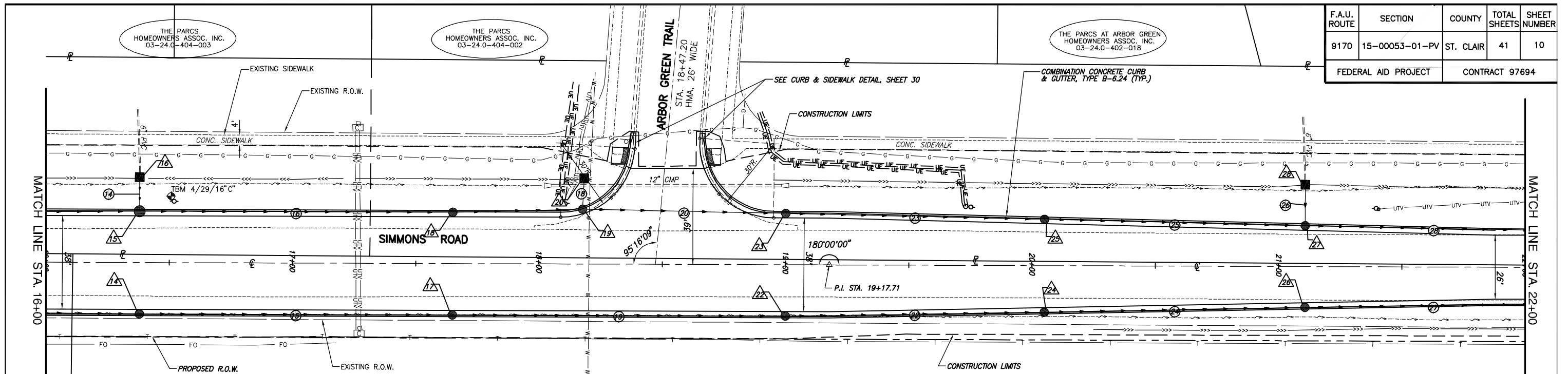
| | | | |
|--|------------------------|--|-------------------------|
| | TREE | | GUY WIRE |
| | SHRUB | | WATER METER |
| | SAPLING | | WATER VALVE |
| | MAILBOX | | WARNING POST |
| | STORM INLET | | FENCE |
| | CULVERT | | SWALE FLOWLINE |
| | TELEPHONE PEDESTAL | | EDGE OF PAVEMENT |
| | CABLE TV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

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



ROADWAY PLAN AND PROFILE SIMMONS ROAD IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 10 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



BENCHMARK DATA

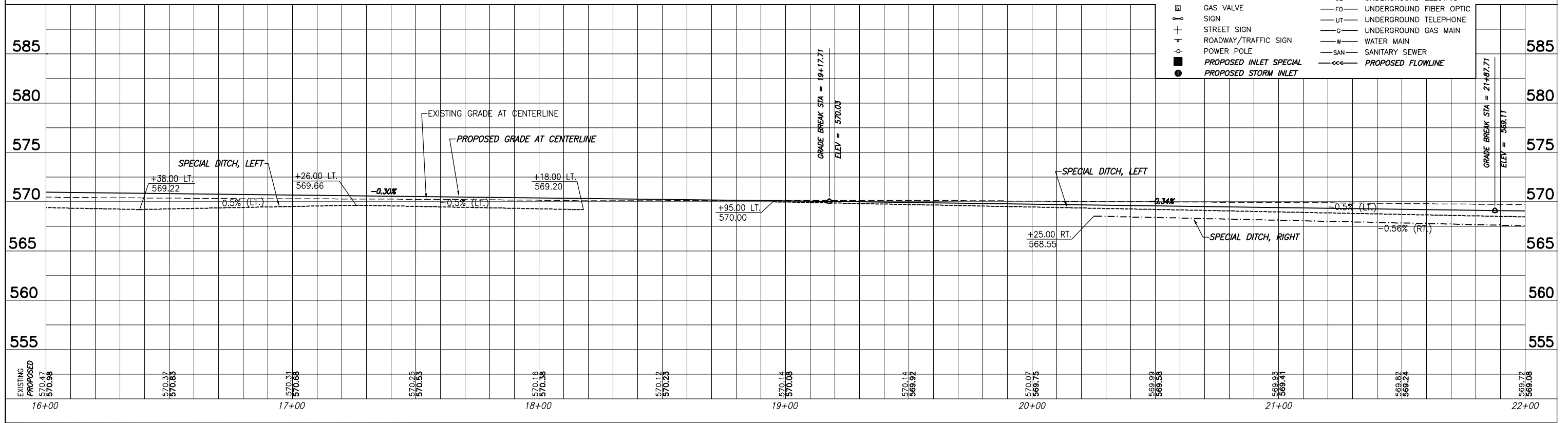
TBM 4/29/16" C" - RAILROAD SPIKE IN WEST FACE POWER POLE ON WEST SIDE OF SIMMONS ROAD, ±150' SOUTH OF ARBOR GREEN TRAIL. ELEV. 571.46

NOTE:
FOR STORM LAYOUT AND DESCRIPTIONS, REFER TO DRAINAGE SCHEDULES ON SHEETS 7 AND 8, AND PROFILES ON SHEETS 24 THRU 27.

KARL DEXHEIMER TRUSTEE 03-24.0-400-011

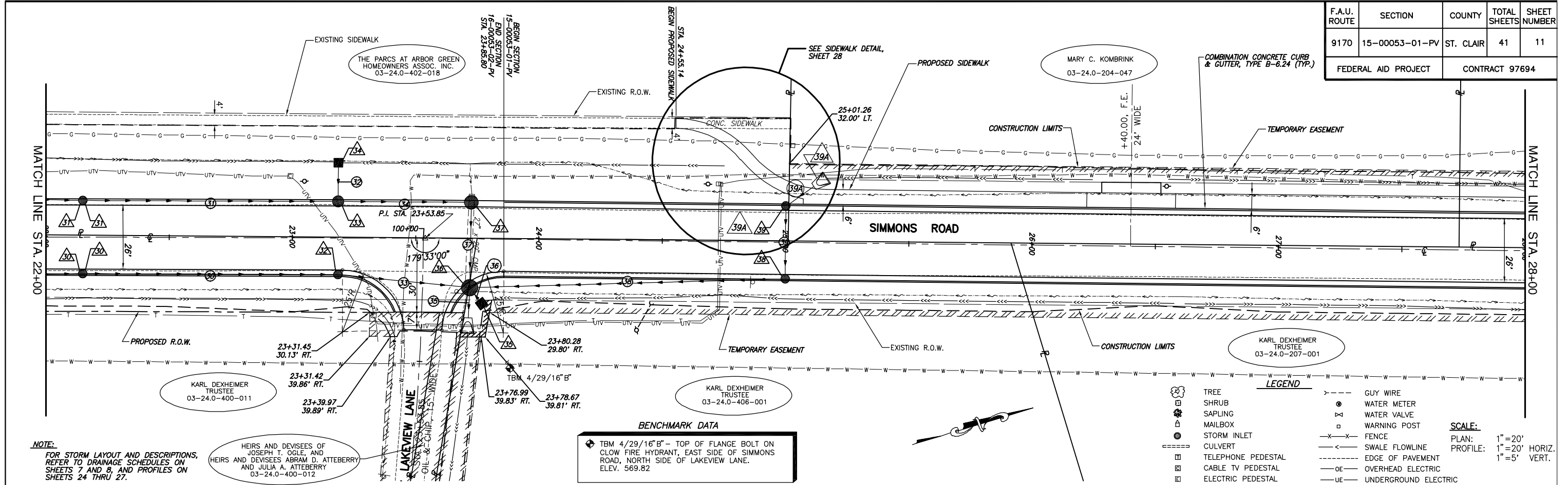
LEGEND

| | | |
|------------------------|-------------------------|------------------------|
| TREE | GUY WIRE | SCALE: |
| SHRUB | WATER METER | PLAN: 1"=20' |
| SAPLING | WATER VALVE | PROFILE: 1"=20' HORIZ. |
| MAILBOX | WARNING POST | 1"=5' VERT. |
| STORM INLET | FENCE | |
| CULVERT | SWALE FLOWLINE | |
| TELEPHONE PEDESTAL | EDGE OF PAVEMENT | |
| CABLE TV PEDESTAL | OVERHEAD ELECTRIC | |
| ELECTRIC PEDESTAL | UNDERGROUND ELECTRIC | |
| GAS VALVE | UNDERGROUND FIBER OPTIC | |
| SIGN | UNDERGROUND TELEPHONE | |
| STREET SIGN | UNDERGROUND GAS MAIN | |
| ROADWAY/TRAFFIC SIGN | WATER MAIN | |
| POWER POLE | SANITARY SEWER | |
| PROPOSED INLET SPECIAL | PROPOSED FLOWLINE | |
| PROPOSED STORM INLET | | |



ROADWAY PLAN AND PROFILE SIMMONS ROAD IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 11 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



NOTE:
FOR STORM LAYOUT AND DESCRIPTIONS, REFER TO DRAINAGE SCHEDULES ON SHEETS 7 AND 8, AND PROFILES ON SHEETS 24 THRU 27.

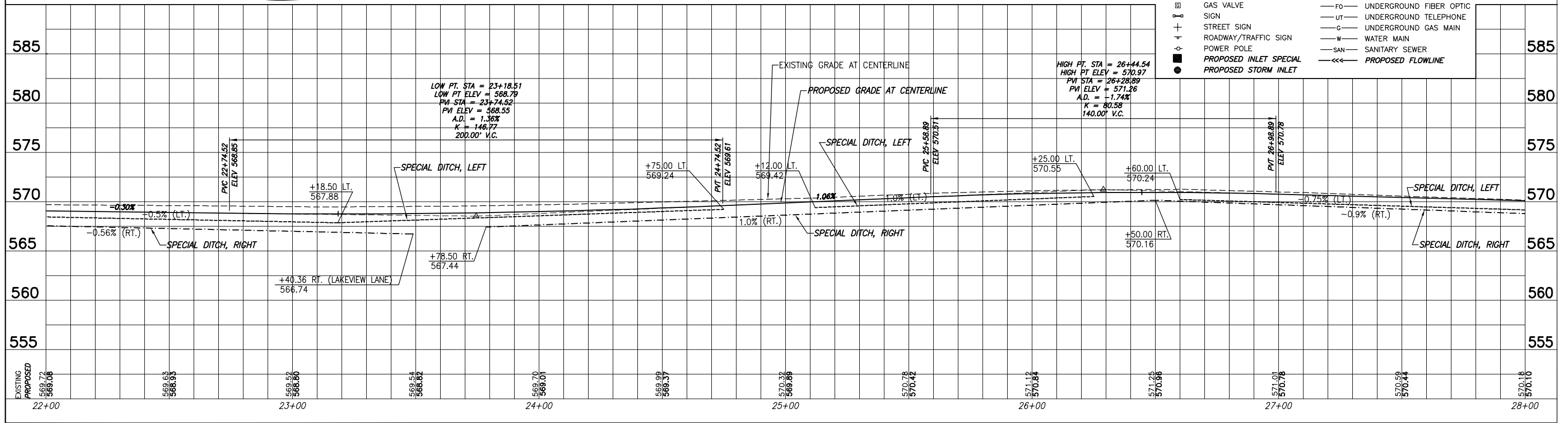
HEIRS AND DEVISEES OF JOSEPH T. OGLE, AND HEIRS AND DEVISEES ABRAM D. ATTEBERRY AND JULIA A. ATTEBERRY
03-24.0-400-012

BENCHMARK DATA
TBM 4/29/16" B" - TOP OF FLANGE BOLT ON CLOW FIRE HYDRANT, EAST SIDE OF SIMMONS ROAD, NORTH SIDE OF LAKEVIEW LANE. ELEV. 569.82

LEGEND

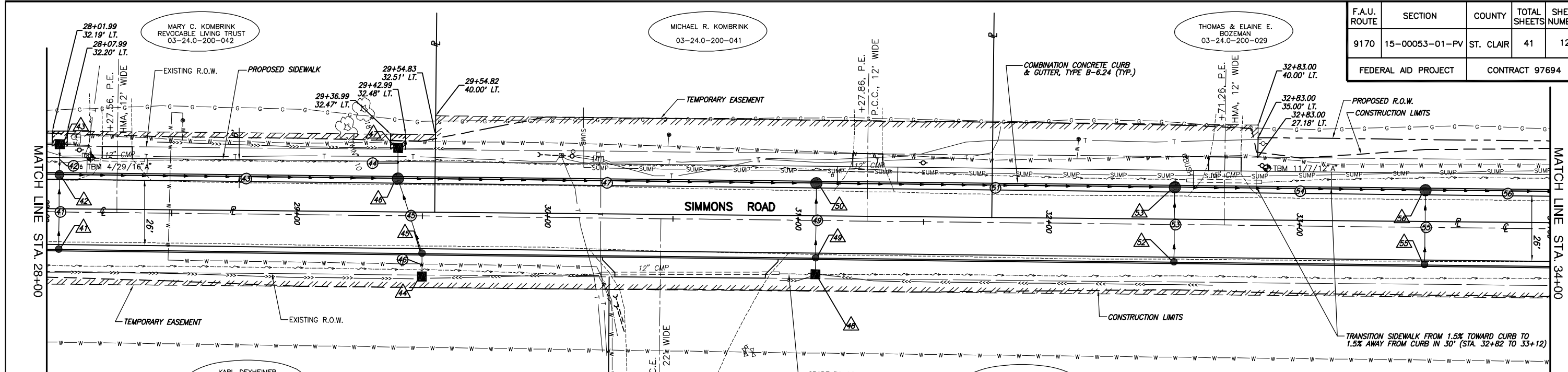
| | | | |
|---|------------------------|---|-------------------------|
| ● | TREE | ○ | GUY WIRE |
| ○ | SHRUB | ○ | WATER METER |
| ○ | SAPLING | ○ | WATER VALVE |
| ○ | MAILBOX | ○ | WARNING POST |
| ○ | STORM INLET | ○ | FENCE |
| ○ | CULVERT | ○ | SWALE FLOWLINE |
| ○ | TELEPHONE PEDESTAL | ○ | EDGE OF PAVEMENT |
| ○ | CABLE TV PEDESTAL | ○ | OVERHEAD ELECTRIC |
| ○ | ELECTRIC PEDESTAL | ○ | UNDERGROUND ELECTRIC |
| ○ | GAS VALVE | ○ | UNDERGROUND FIBER OPTIC |
| ○ | SIGN | ○ | UNDERGROUND TELEPHONE |
| ○ | STREET SIGN | ○ | UNDERGROUND GAS MAIN |
| ○ | ROADWAY/TRAFFIC SIGN | ○ | WATER MAIN |
| ○ | POWER POLE | ○ | SANITARY SEWER |
| ○ | PROPOSED INLET SPECIAL | ○ | PROPOSED FLOWLINE |
| ○ | PROPOSED STORM INLET | | |

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



ROADWAY PLAN AND PROFILE SIMMONS ROAD IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 12 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



BENCHMARK DATA

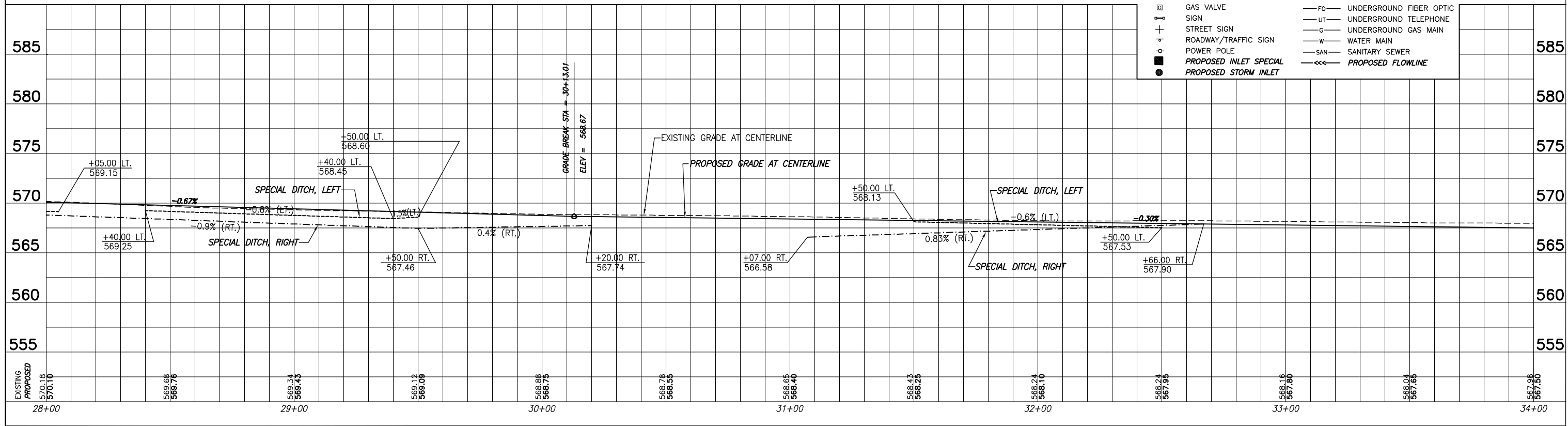
- TBM 4/29/16" - RAILROAD SPIKE IN EAST FACE SAWED OFF POWER POLE, WEST SIDE OF SIMMONS ROAD, SOUTH OF ASPHALT DRIVEWAY; HOUSE #1021. ELEV. 570.61
- TBM 11/7/12" - RAILROAD SPIKE IN NORTHEAST FACE POWER POLE ON WEST SIDE OF SIMMONS ROAD. ELEV. 568.00

NOTE:
FOR STORM LAYOUT AND DESCRIPTIONS, REFER TO DRAINAGE SCHEDULES ON SHEETS 7 AND 8, AND PROFILES ON SHEETS 24 THRU 27.

LEGEND

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

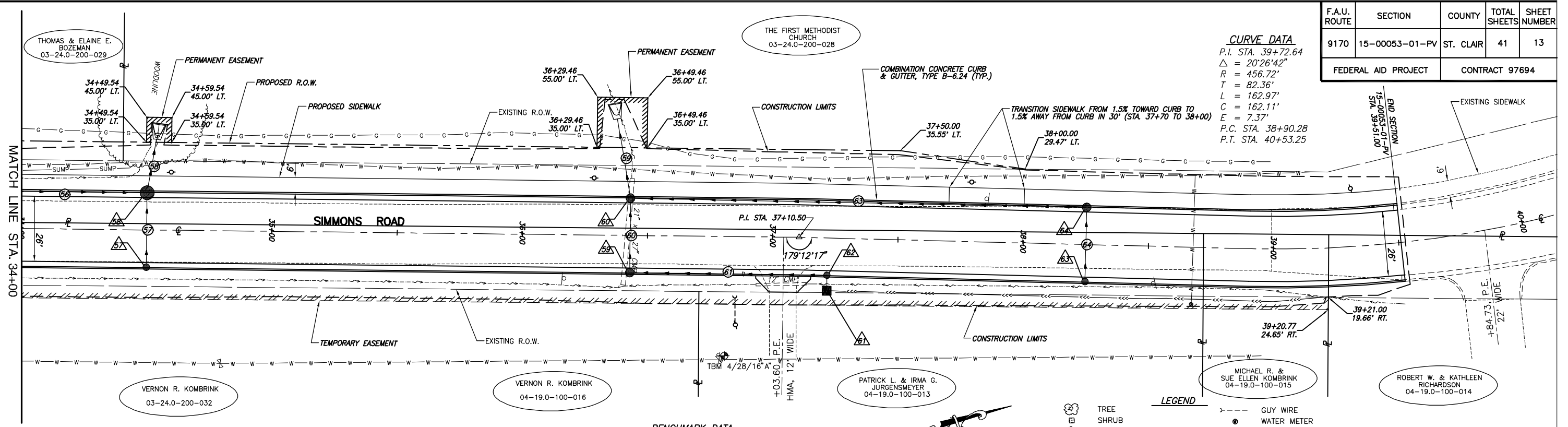
SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ.
1"=5' VERT.



ROADWAY PLAN AND PROFILE SIMMONS ROAD IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 13 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

CURVE DATA
P.I. STA. 39+72.64
 $\Delta = 20'26'42"$
 $R = 456.72'$
 $T = 82.36'$
 $L = 162.97'$
 $C = 162.11'$
 $E = 7.37'$
P.C. STA. 38+90.28
P.T. STA. 40+53.25



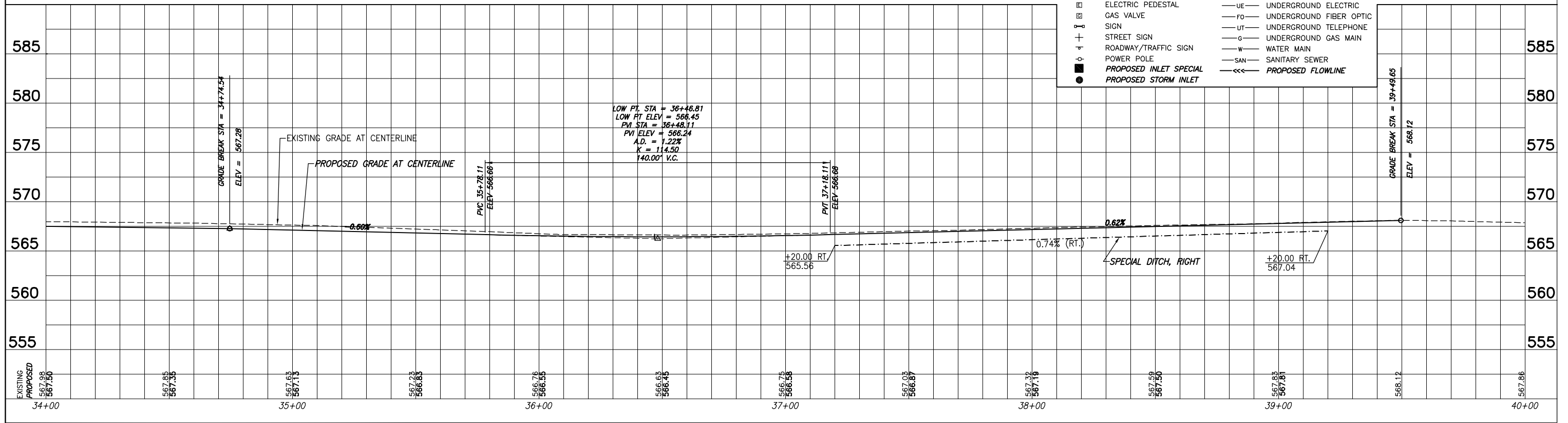
NOTE:
FOR STORM LAYOUT AND DESCRIPTIONS, REFER TO DRAINAGE SCHEDULES ON SHEETS 7 AND 8, AND PROFILES ON SHEETS 24 THRU 27.

BENCHMARK DATA
TBM 4/28/16" A" - TOP OF NORTHEAST FLANGE BOLT ON CLOW FIRE HYDRANT, ±50' EAST OF SIMMONS ROAD, SOUTH SIDE ASPHALT DRIVE; HOUSE #1062. ELEV. 569.73

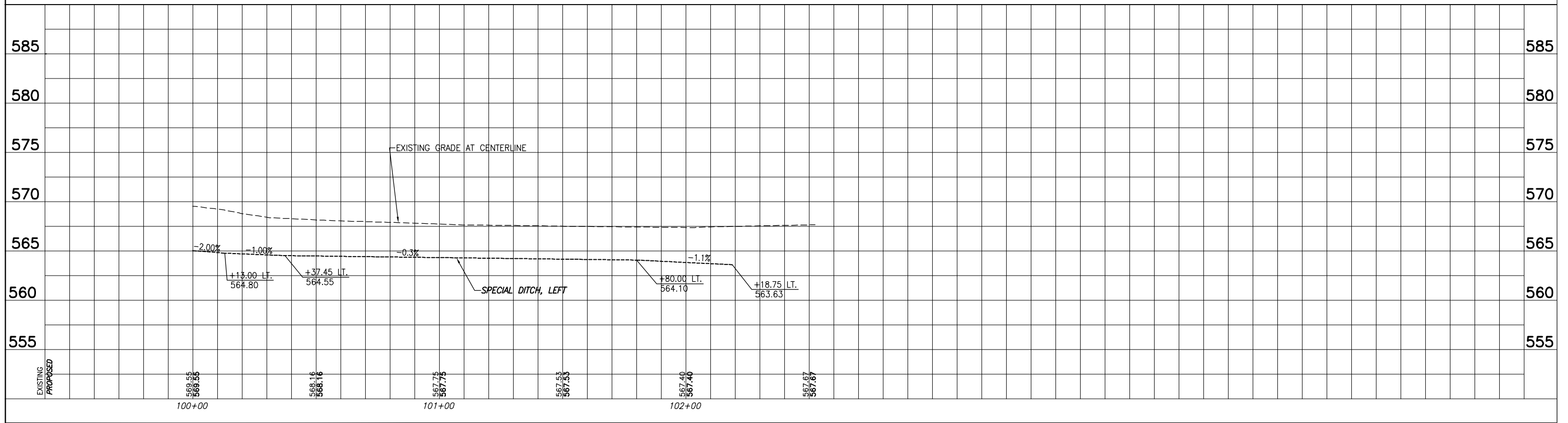
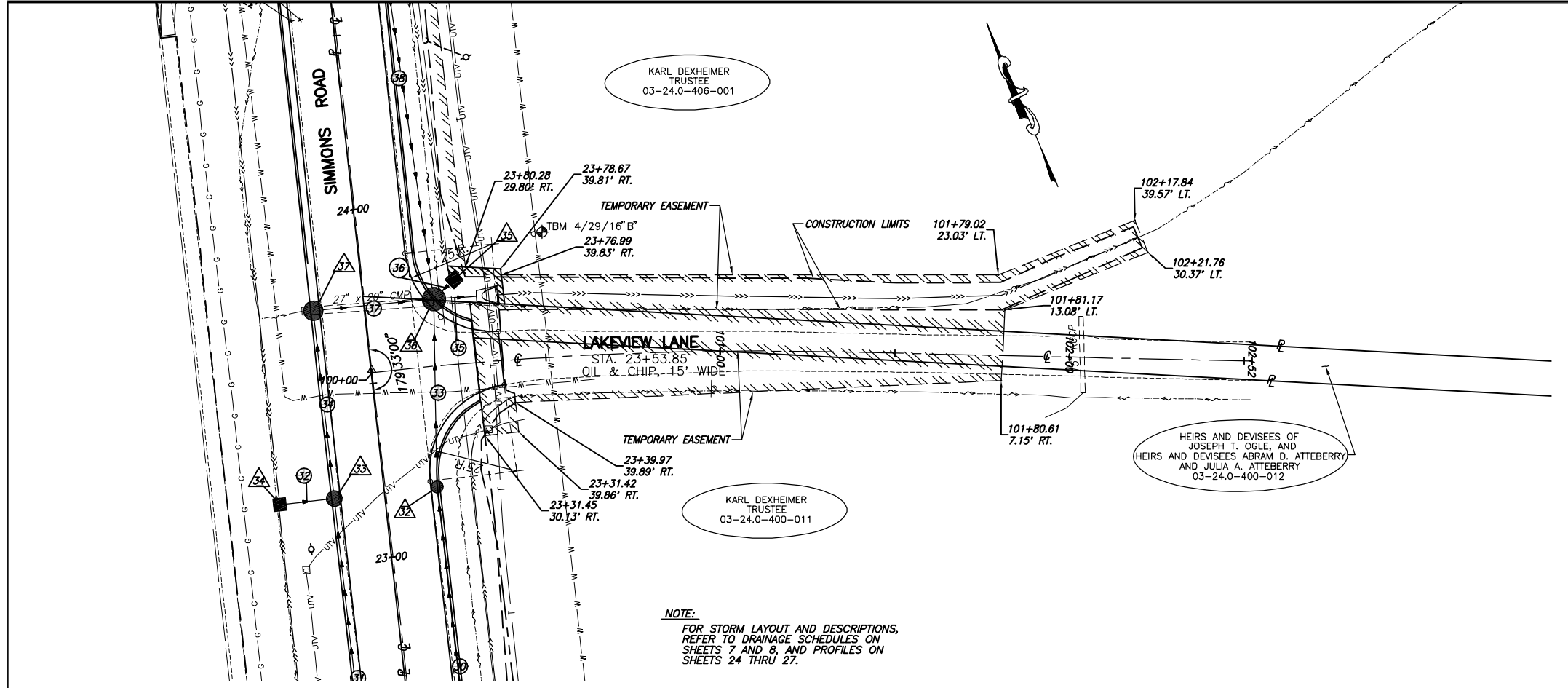
LEGEND

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

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

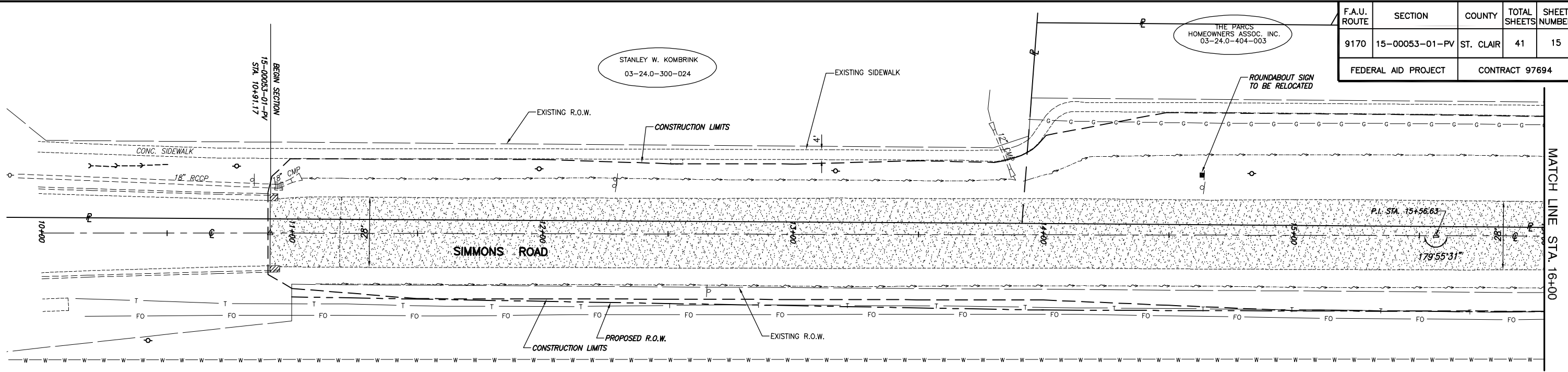


| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 14 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



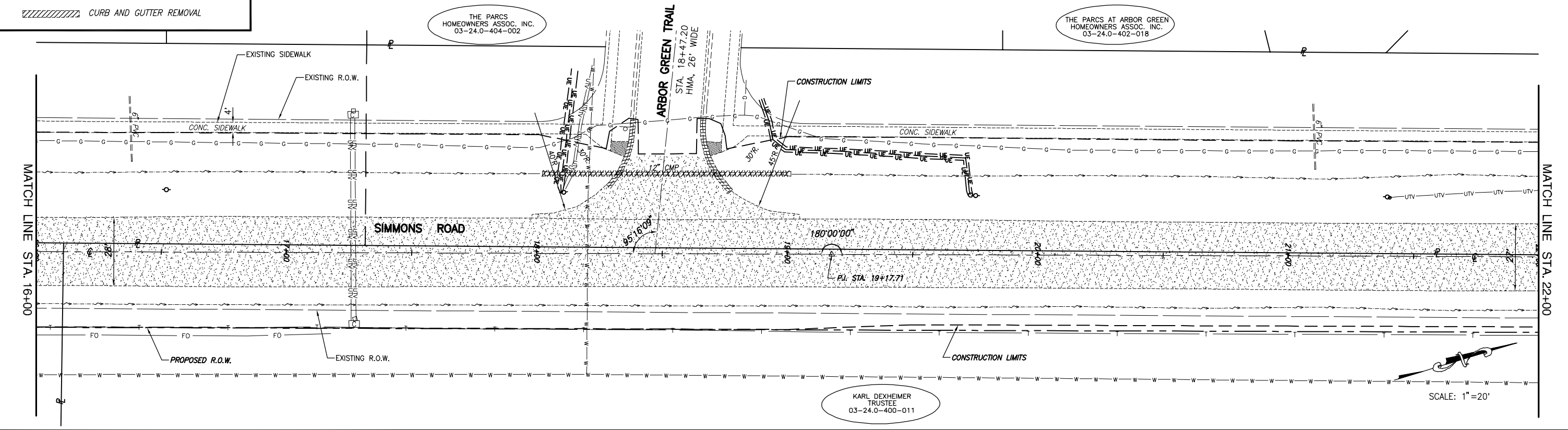
ROADWAY PLAN AND PROFILE SIMMONS ROAD IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 15 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



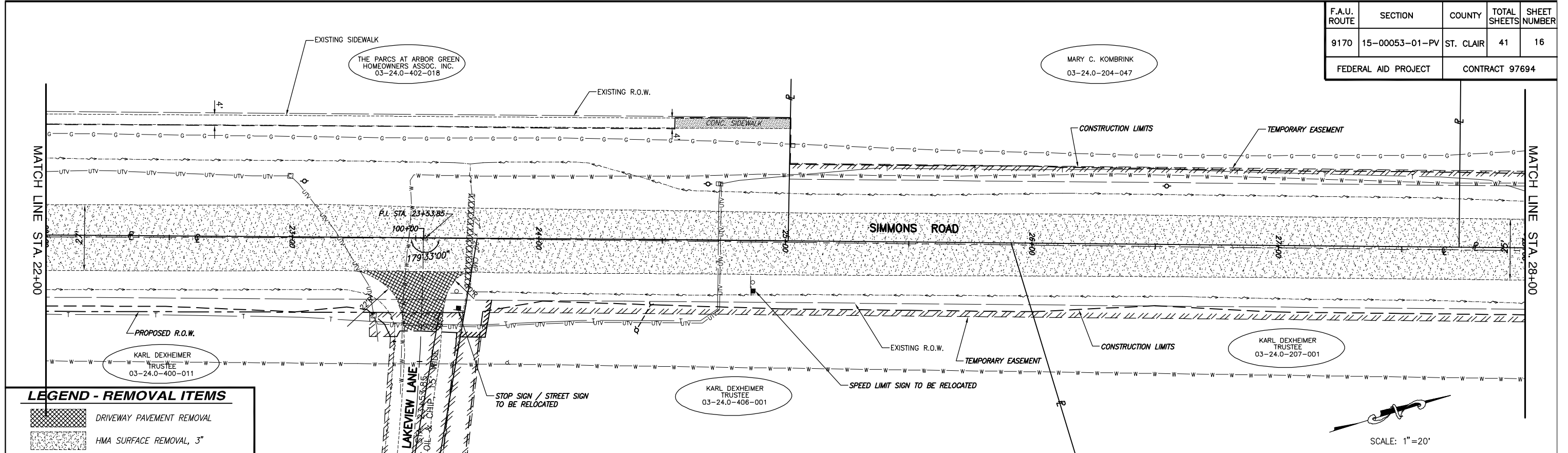
LEGEND - REMOVAL ITEMS

- DRIVEWAY PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 3"
- PIPE CULVERT REMOVAL
- SIDEWALK REMOVAL
- CURB AND GUTTER REMOVAL



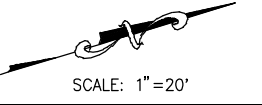
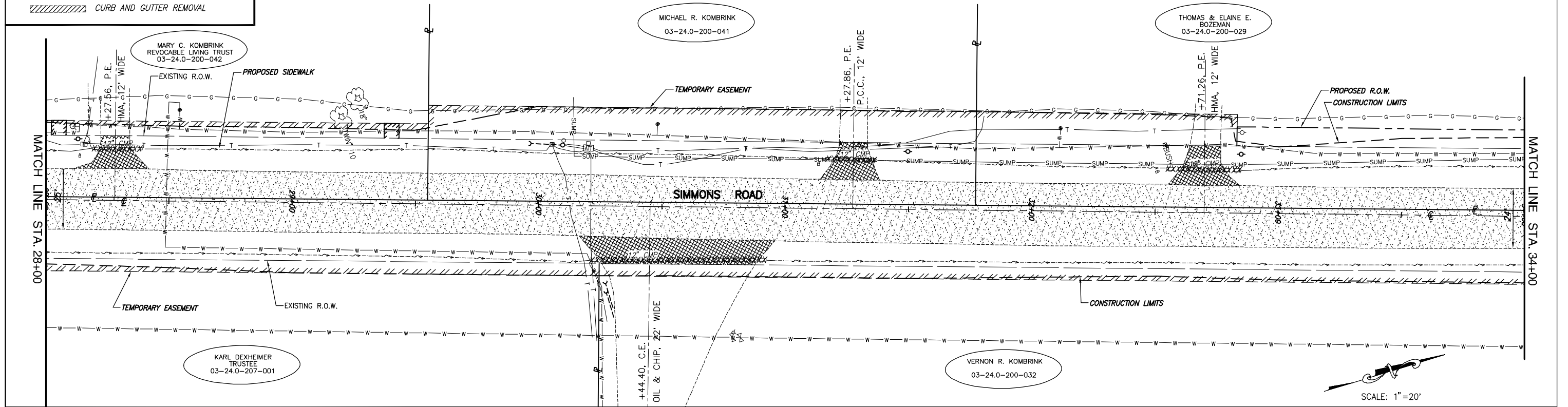
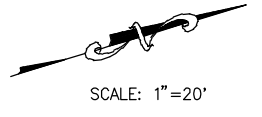
**REMOVAL PLAN SIMMONS ROAD IMPROVEMENTS
ST. CLAIR COUNTY, ILLINOIS**

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 16 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



LEGEND - REMOVAL ITEMS

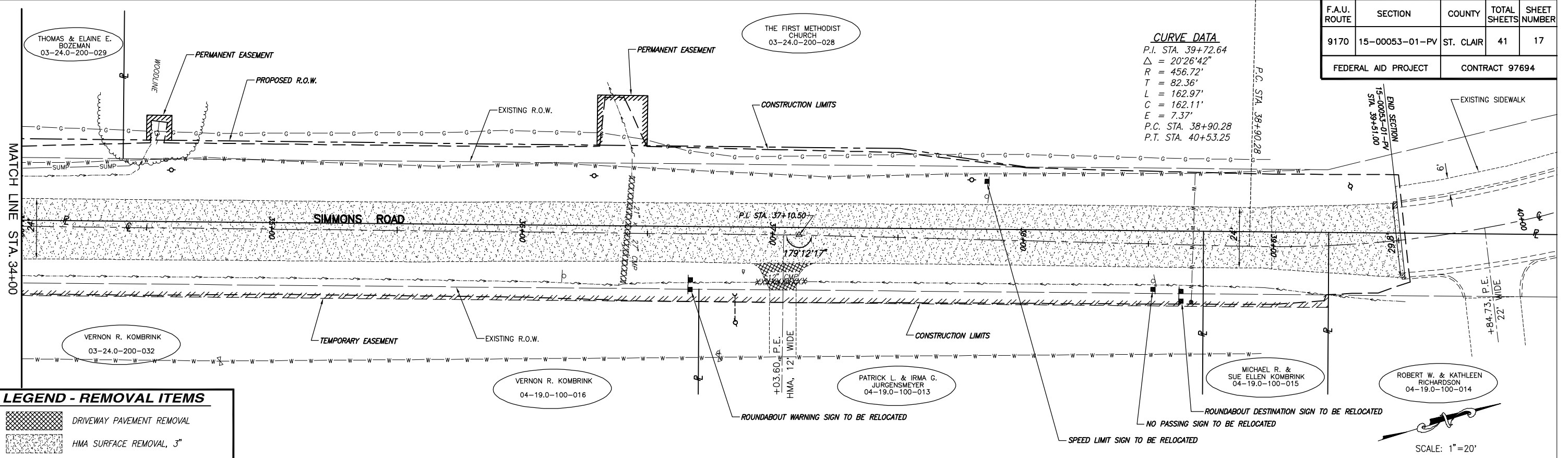
- DRIVEWAY PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, 3"
- PIPE CULVERT REMOVAL
- SIDEWALK REMOVAL
- CURB AND GUTTER REMOVAL



**REMOVAL PLAN SIMMONS ROAD IMPROVEMENTS
ST. CLAIR COUNTY, ILLINOIS**

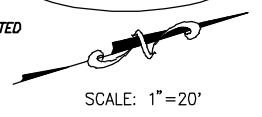
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 17 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

CURVE DATA
P.I. STA. 39+72.64
 $\Delta = 20'26''42''$
R = 456.72'
T = 82.36'
L = 162.97'
C = 162.11'
E = 7.37'
P.C. STA. 38+90.28
P.T. STA. 40+53.25

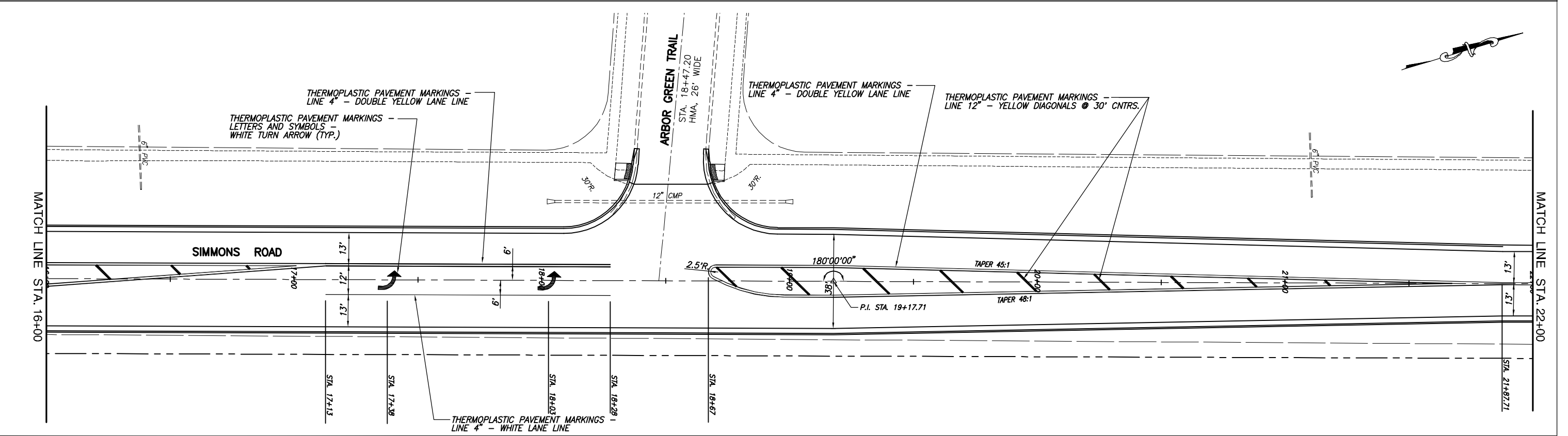
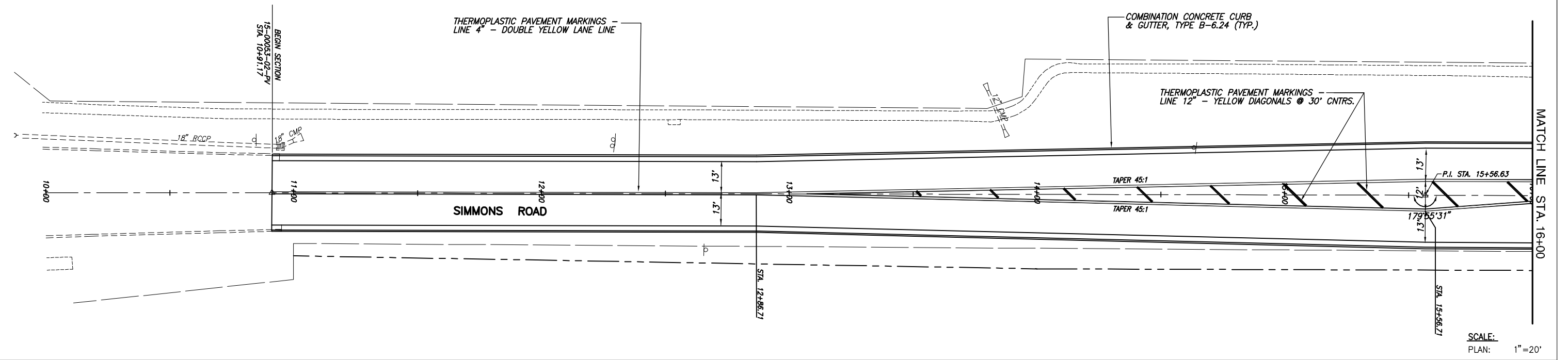


LEGEND - REMOVAL ITEMS

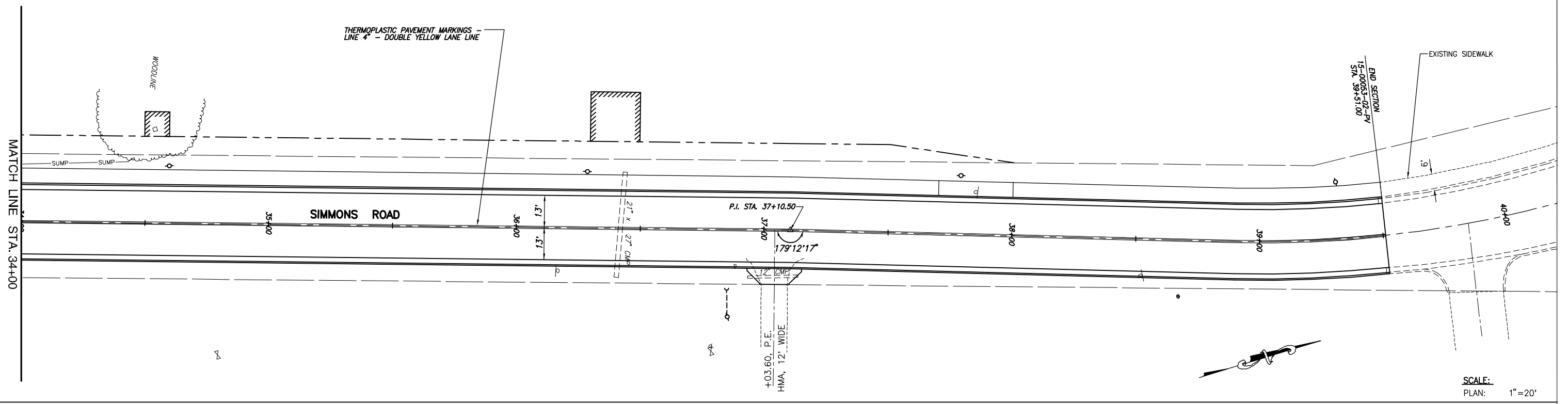
| | |
|--|---------------------------|
| | DRIVEWAY PAVEMENT REMOVAL |
| | HMA SURFACE REMOVAL, 3" |
| | PIPE CULVERT REMOVAL |
| | SIDEWALK REMOVAL |
| | CURB AND GUTTER REMOVAL |



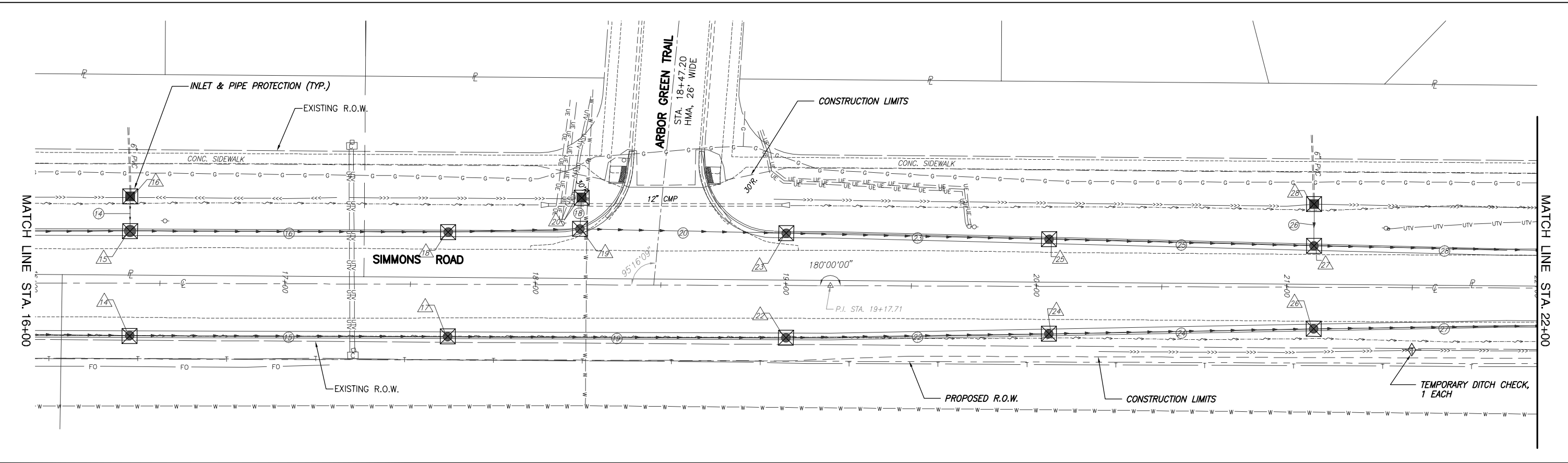
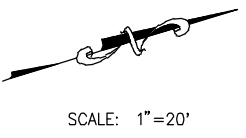
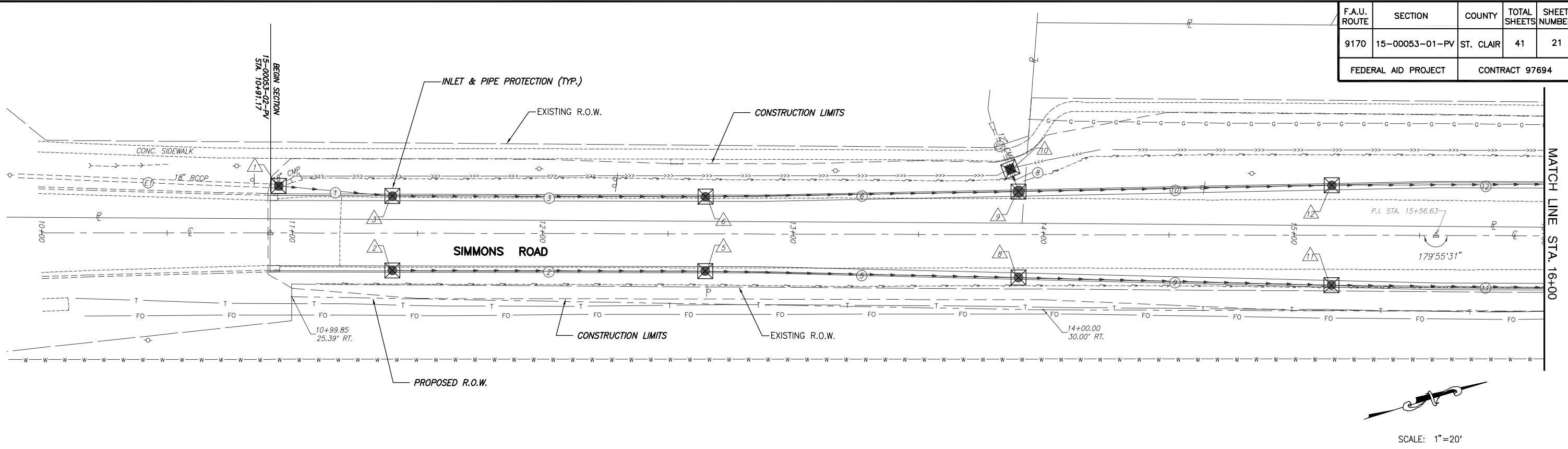
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 18 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 20 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

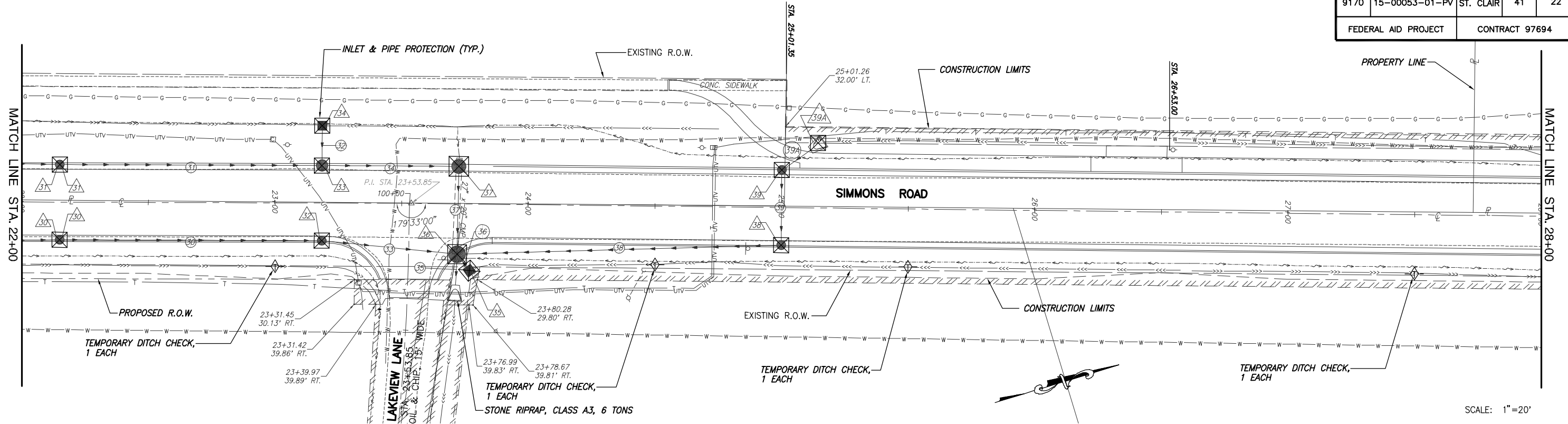


| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 21 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

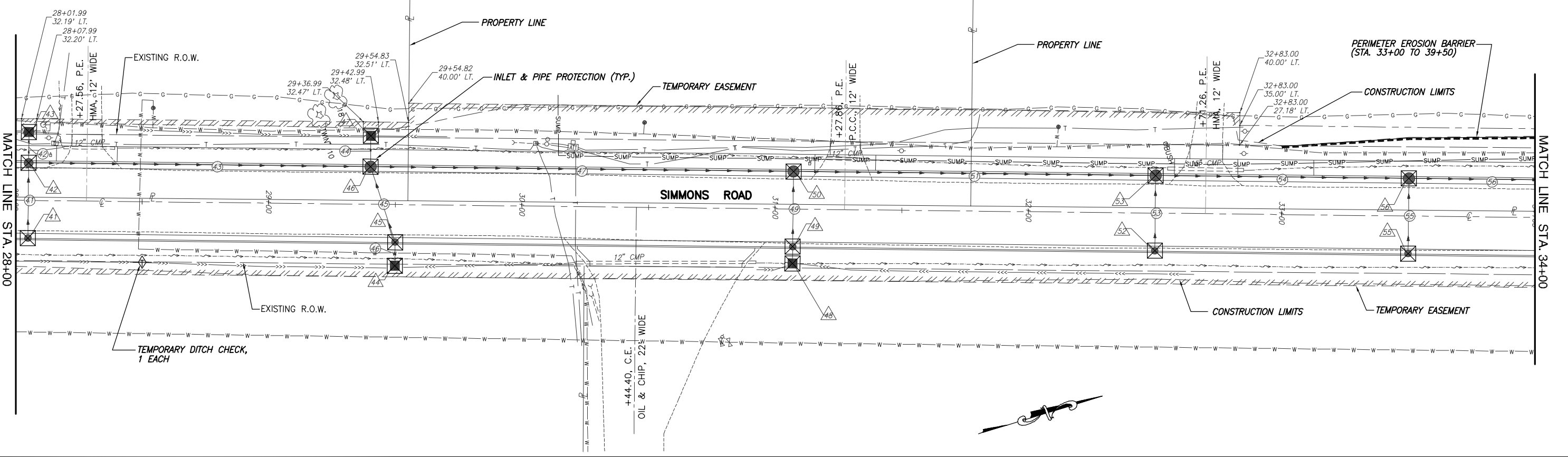


**EROSION AND SEDIMENT CONTROL PLAN SIMMONS ROAD IMPROVEMENTS
ST. CLAIR COUNTY, ILLINOIS**

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 22 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

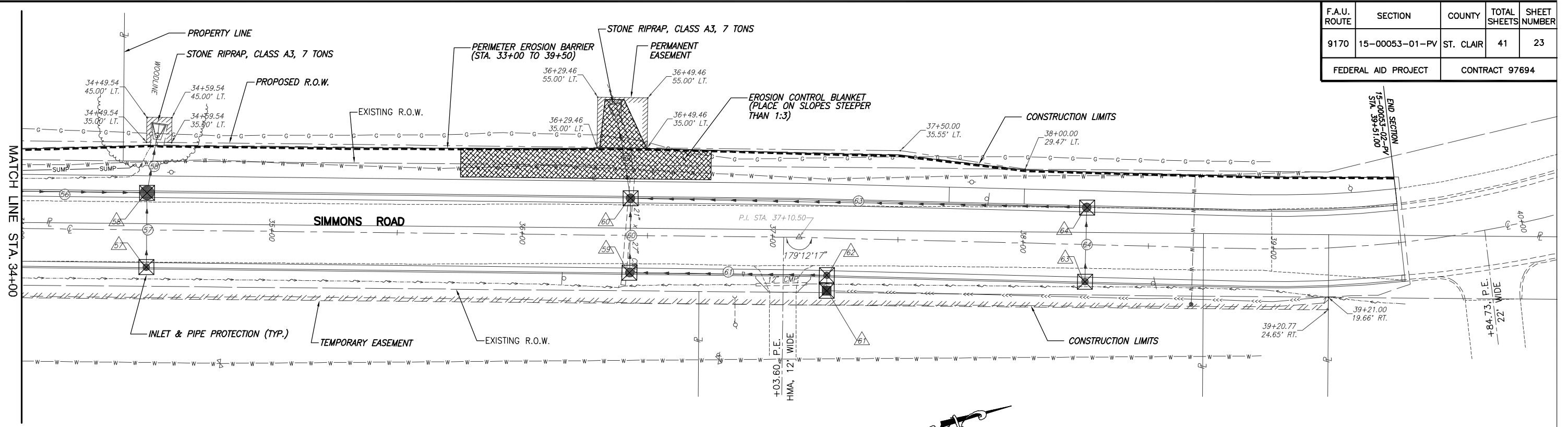


SCALE: 1"=20'

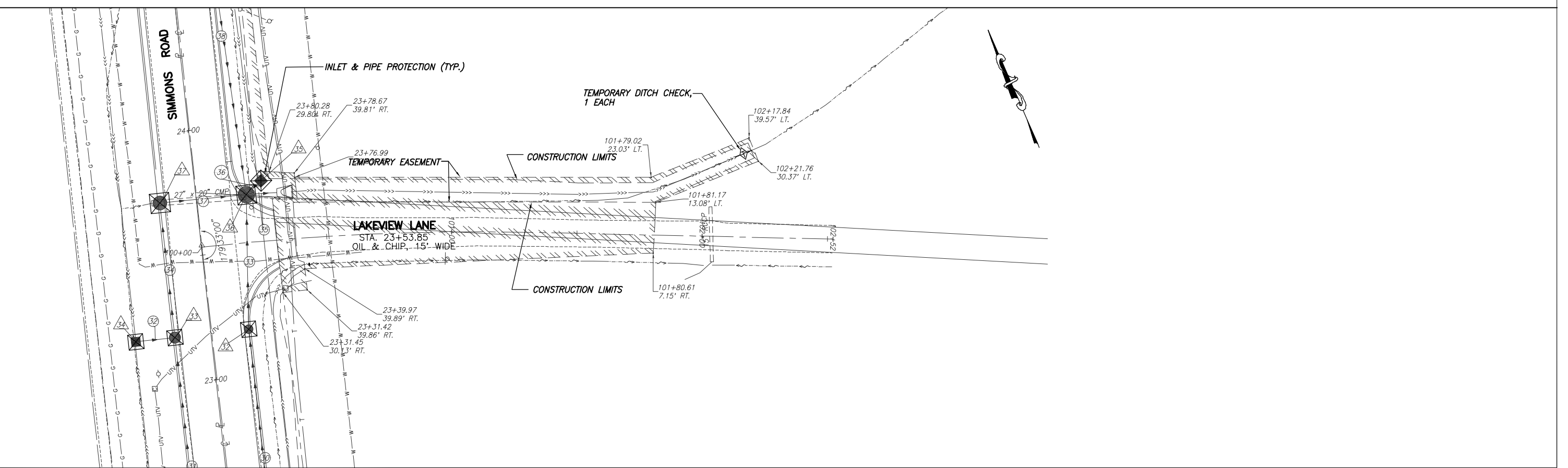


EROSION AND SEDIMENT CONTROL PLAN SIMMONS ROAD IMPROVEMENTS ST. CLAIR COUNTY, ILLINOIS

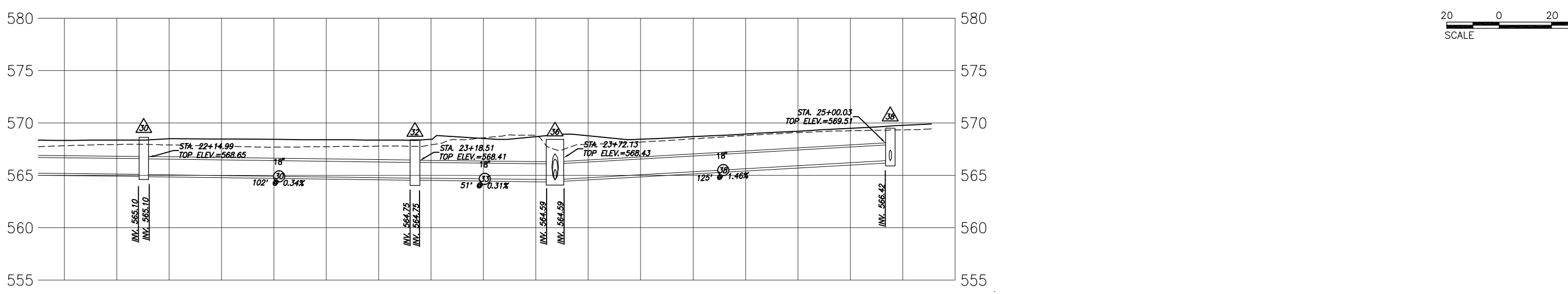
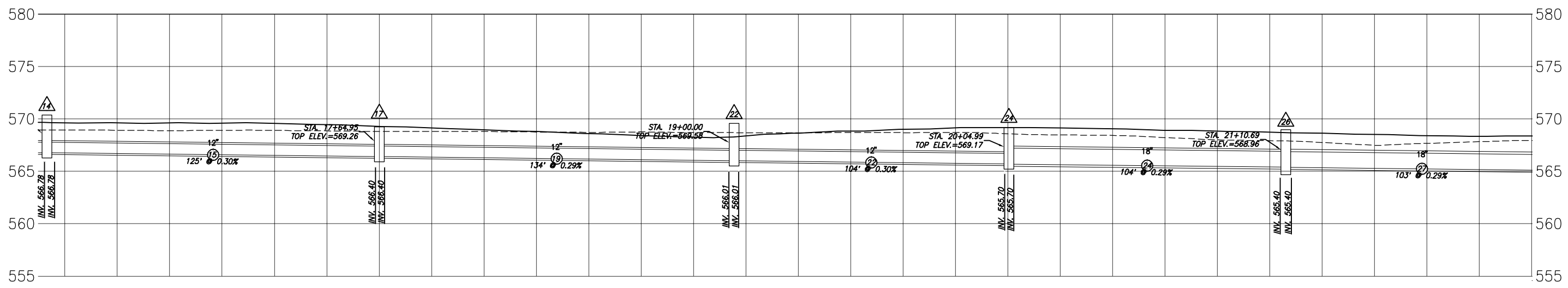
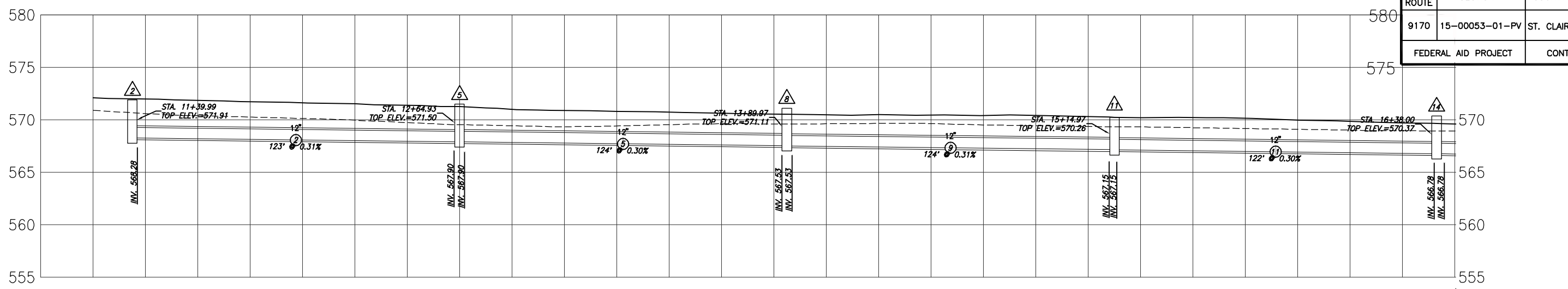
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 23 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



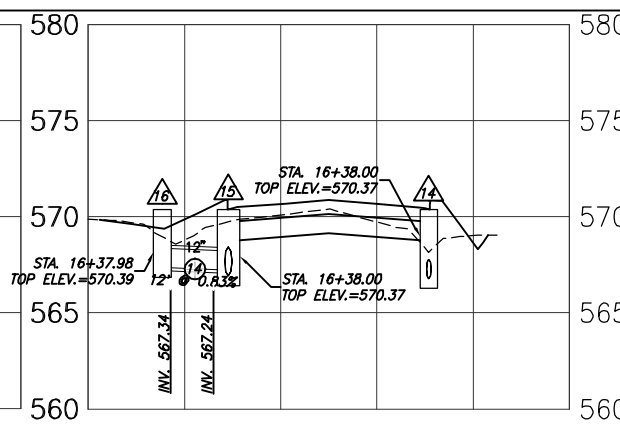
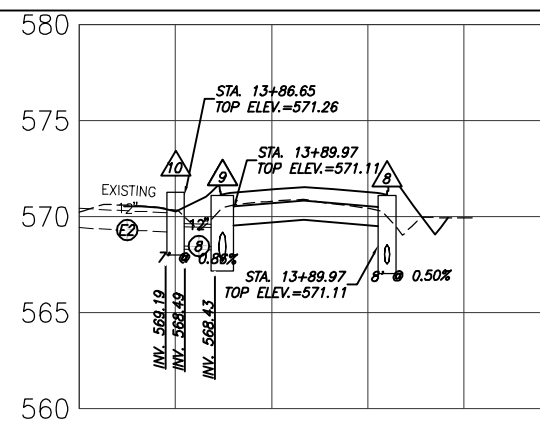
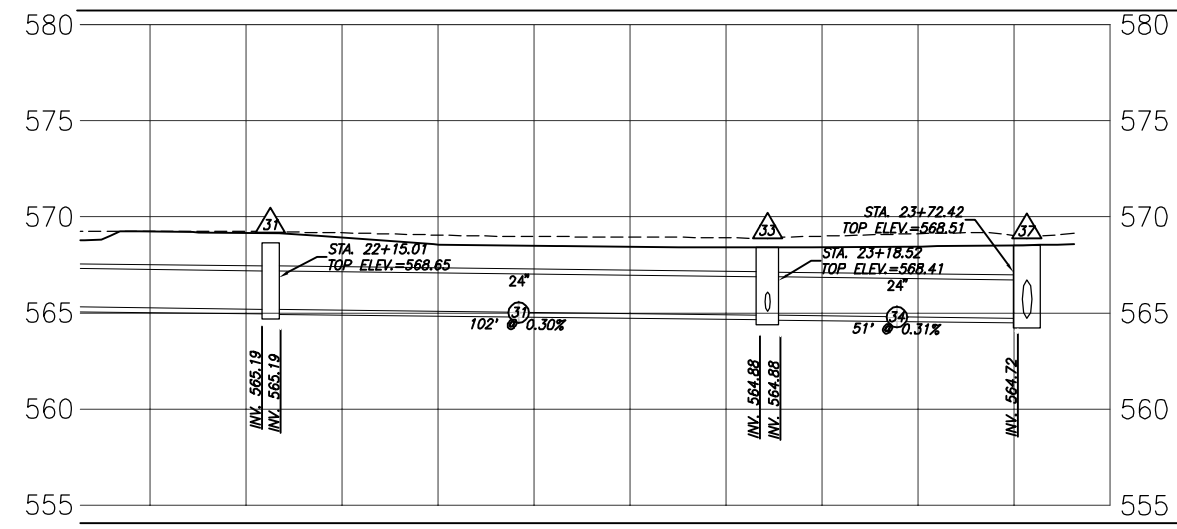
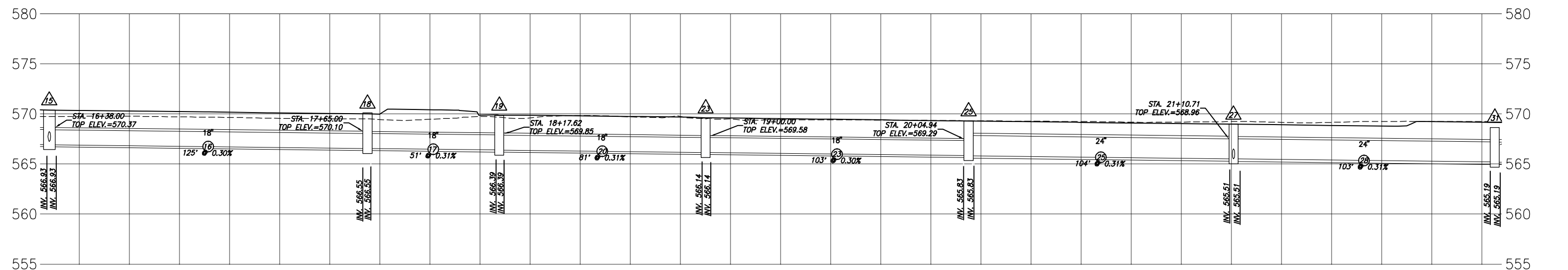
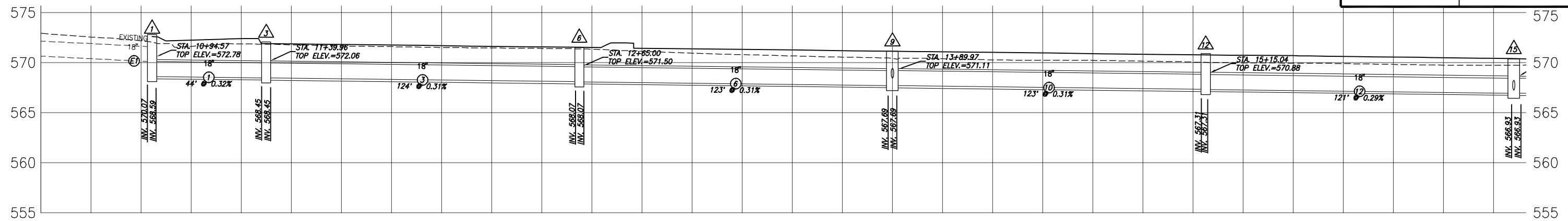
SCALE: 1"=20'



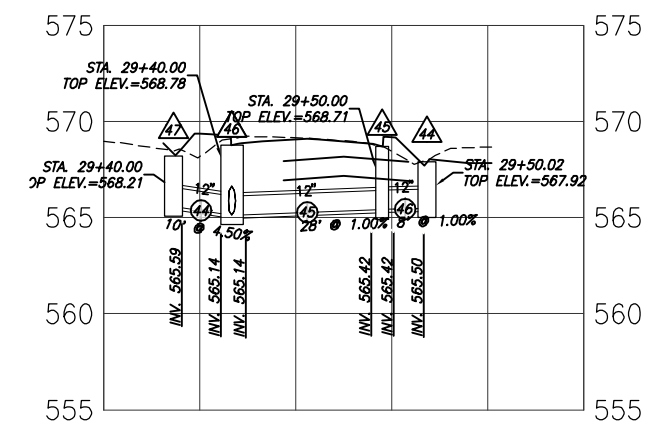
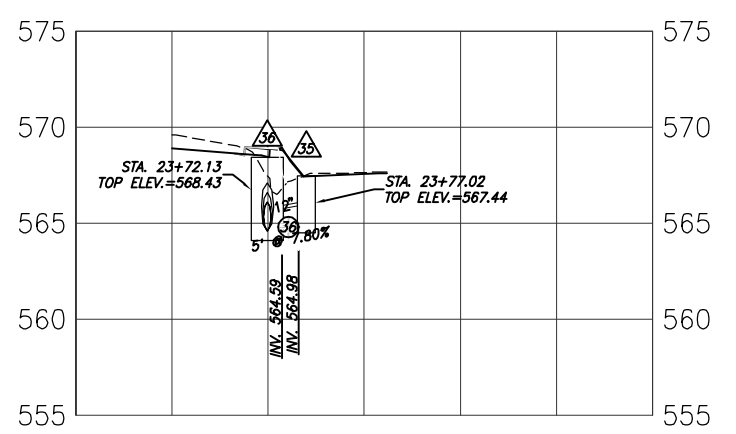
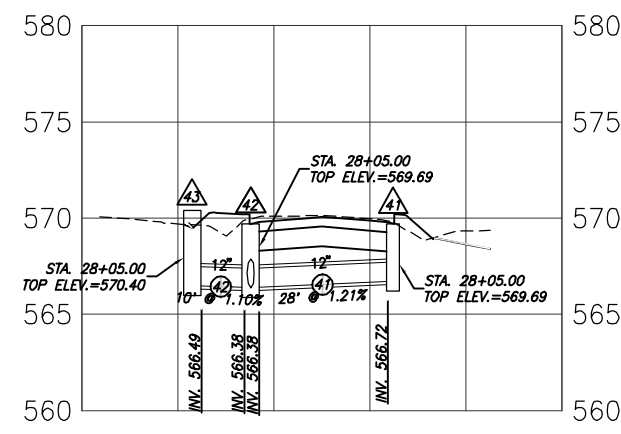
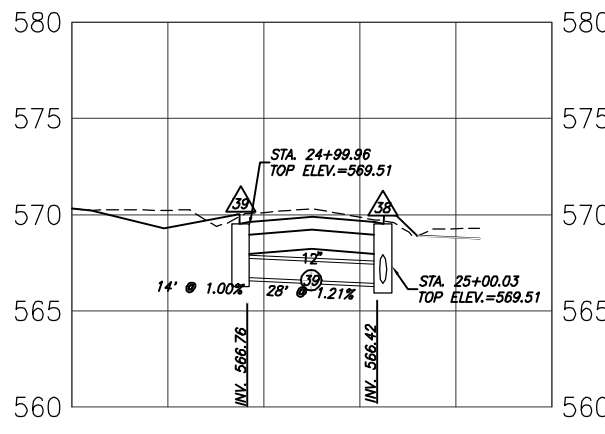
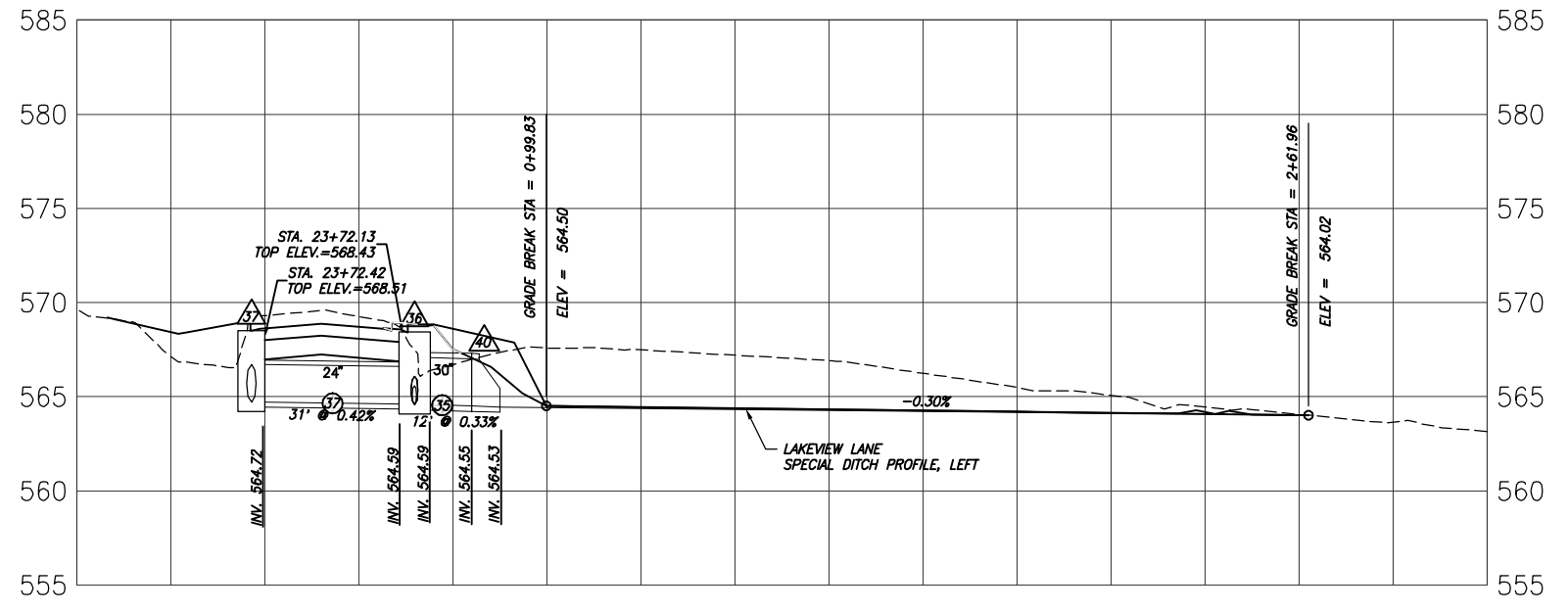
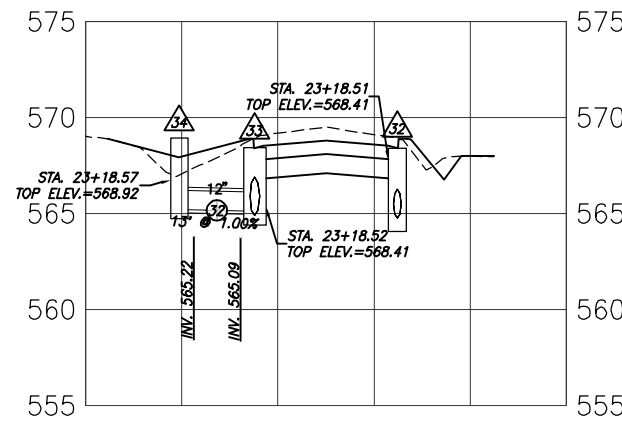
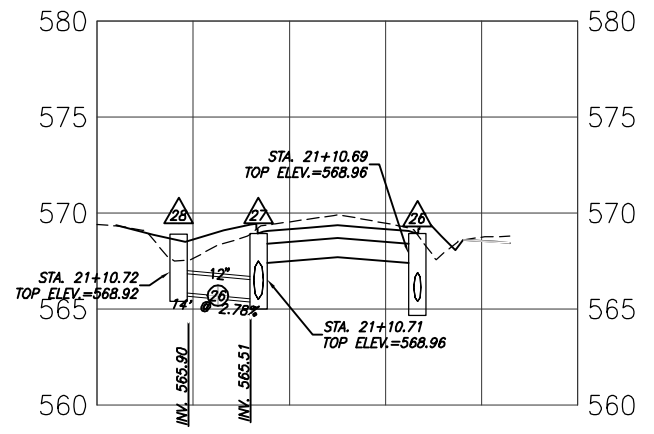
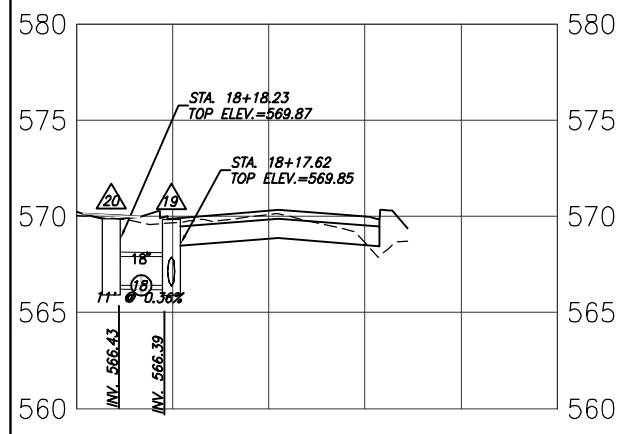
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 24 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



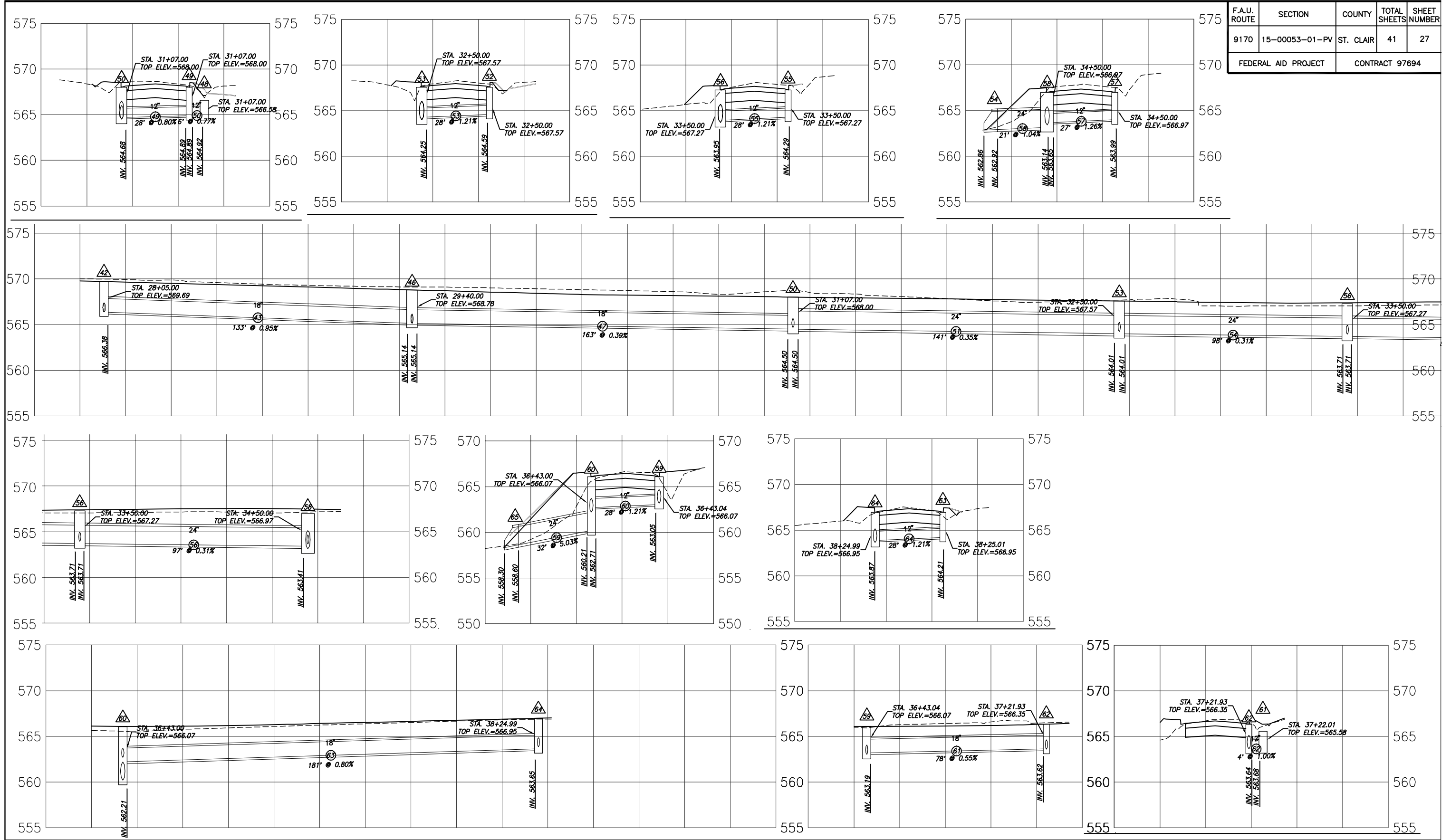
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 25 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 26 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

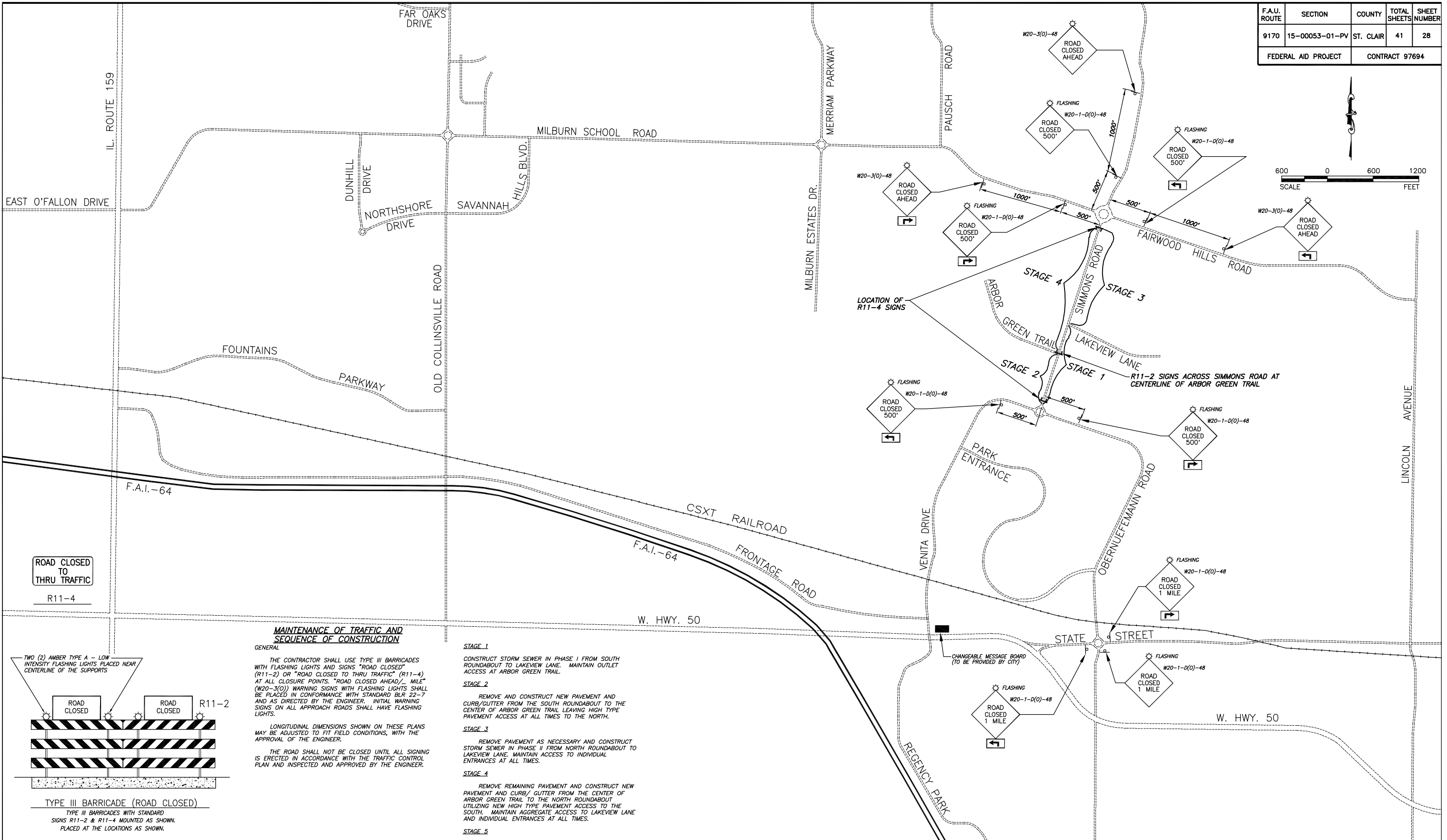
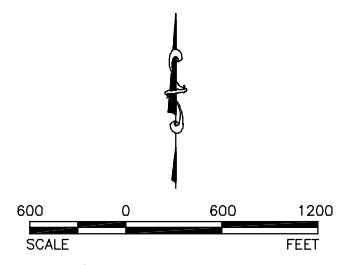


| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 27 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

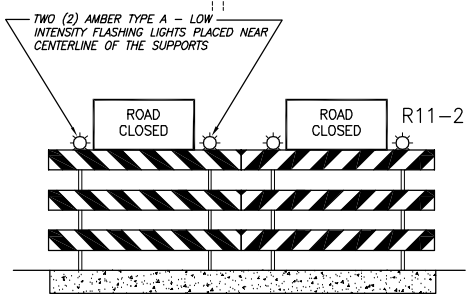


DRAINAGE PROFILES SIMMONS ROAD IMPROVEMENTS
ST. CLAIR COUNTY, ILLINOIS

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 28 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



ROAD CLOSED TO THRU TRAFFIC
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.

MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION
GENERAL

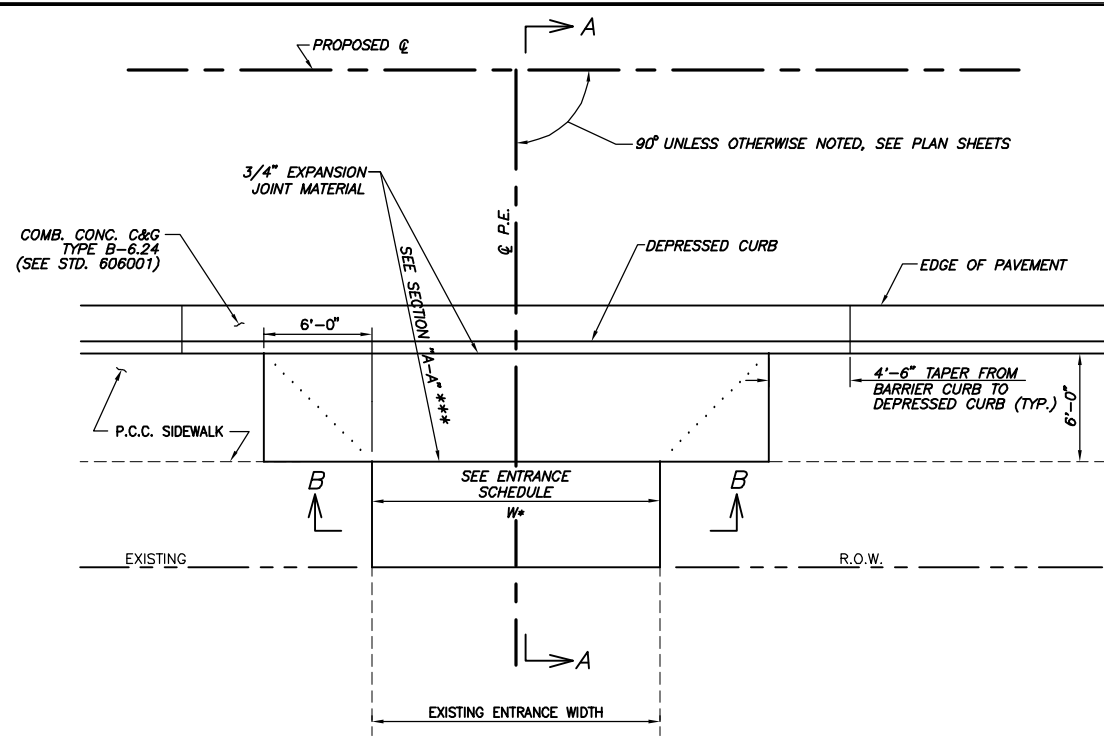
THE CONTRACTOR SHALL USE TYPE III BARRICADES WITH FLASHING LIGHTS AND SIGNS "ROAD CLOSED" (R11-2) OR "ROAD CLOSED TO THRU TRAFFIC" (R11-4) AT ALL CLOSURE POINTS. "ROAD CLOSED AHEAD/1 MILE" (W20-3(O)-48) WARNING SIGNS WITH FLASHING LIGHTS SHALL BE PLACED IN CONFORMANCE WITH STANDARD BLR 22-7 AND AS DIRECTED 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.

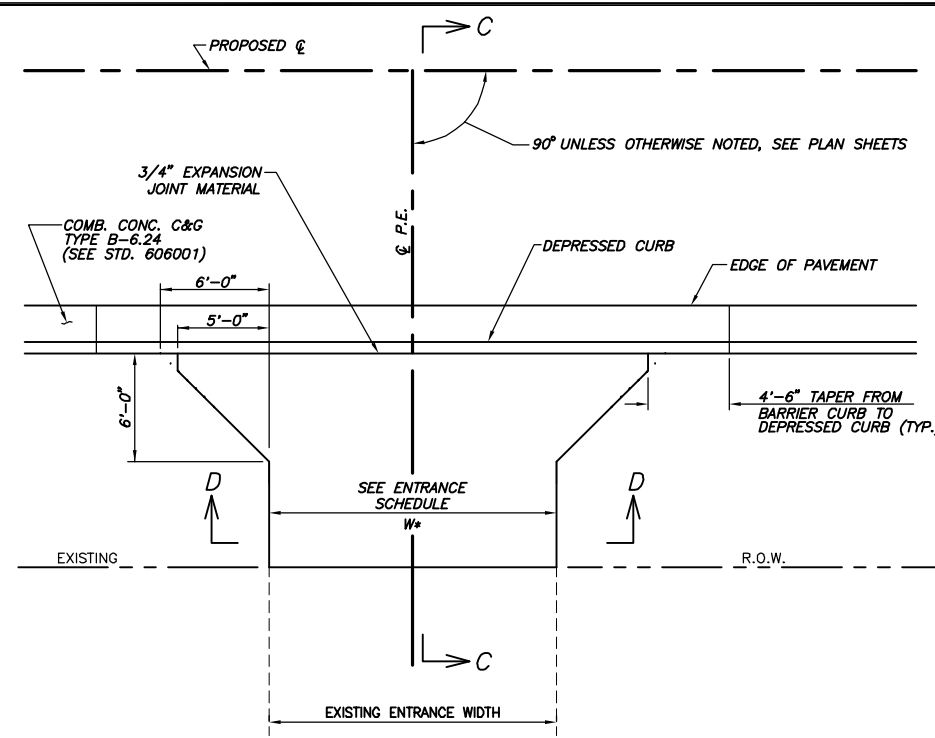
THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.

- STAGE 1**
CONSTRUCT STORM SEWER IN PHASE I FROM SOUTH ROUNDABOUT TO LAKEVIEW LANE. MAINTAIN OUTLET ACCESS AT ARBOR GREEN TRAIL.
- STAGE 2**
REMOVE AND CONSTRUCT NEW PAVEMENT AND CURB/GUTTER FROM THE SOUTH ROUNDABOUT TO THE CENTER OF ARBOR GREEN TRAIL LEAVING HIGH TYPE PAVEMENT ACCESS AT ALL TIMES TO THE NORTH.
- STAGE 3**
REMOVE PAVEMENT AS NECESSARY AND CONSTRUCT STORM SEWER IN PHASE II FROM NORTH ROUNDABOUT TO LAKEVIEW LANE. MAINTAIN ACCESS TO INDIVIDUAL ENTRANCES AT ALL TIMES.
- STAGE 4**
REMOVE REMAINING PAVEMENT AND CONSTRUCT NEW PAVEMENT AND CURB/ GUTTER FROM THE CENTER OF ARBOR GREEN TRAIL TO THE NORTH ROUNDABOUT UTILIZING NEW HIGH TYPE PAVEMENT ACCESS TO THE SOUTH. MAINTAIN AGGREGATE ACCESS TO LAKEVIEW LANE AND INDIVIDUAL ENTRANCES AT ALL TIMES.
- STAGE 5**
FINALIZE PAVEMENT MARKING UNDER ROAD CLOSURE.

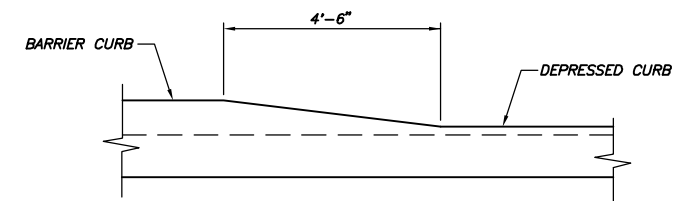
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 29 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



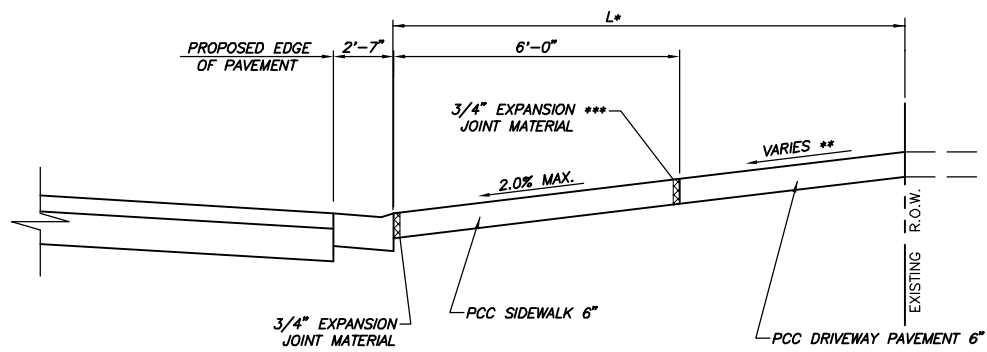
P.E. DETAIL "A"
PRIVATE ENTRANCE WITH SIDEWALK
N.T.S.



P.E. DETAIL "B"
PRIVATE ENTRANCE WITHOUT SIDEWALK
N.T.S.

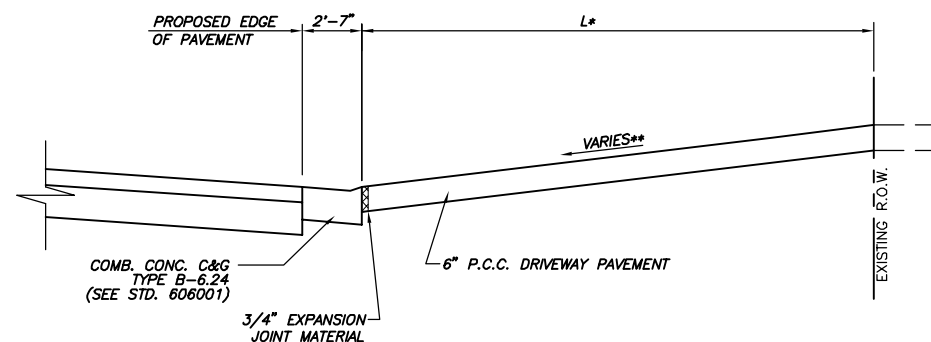


DETAIL OF CURB HEIGHT TRANSITION
N.T.S.



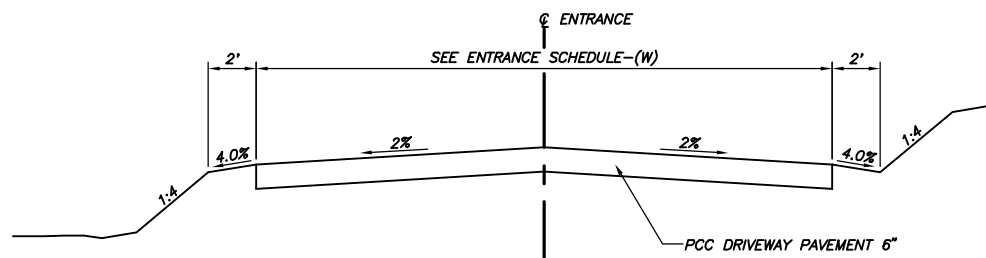
SECTION "A-A"

- * SEE ENTRANCE SCHEDULE FOR DISTANCES
- ** SEE CROSS SECTIONS FOR SLOPES
- *** EXPANSION REQUIRED ADJACENT TO CONCRETE DRIVEWAY PAVEMENT

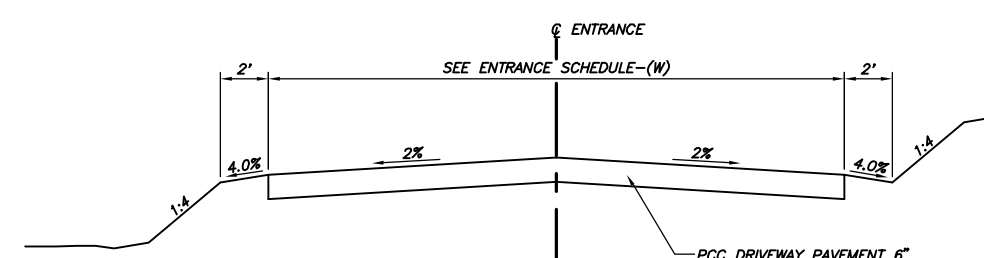


SECTION "C-C"

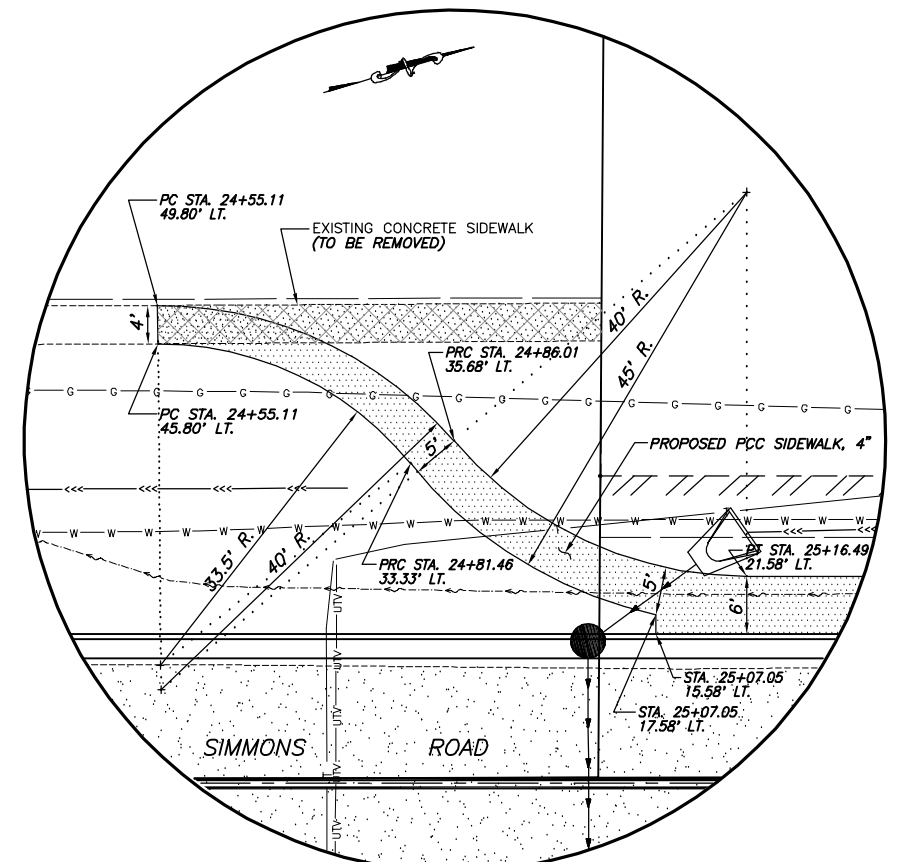
- * SEE ENTRANCE SCHEDULE FOR DISTANCES
- ** SEE CROSS SECTIONS FOR SLOPES



SECTION "B-B"

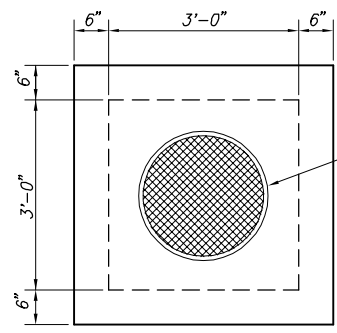


SECTION "D-D"

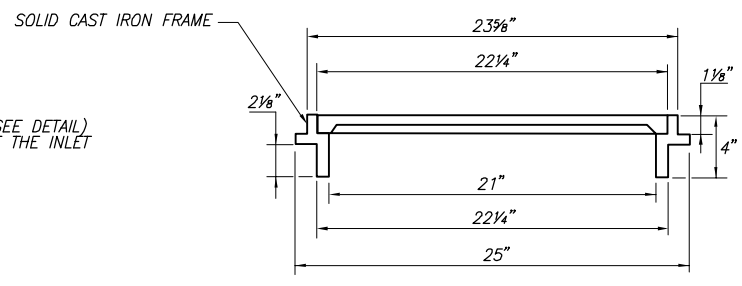


SIDEWALK DETAIL
N.T.S.

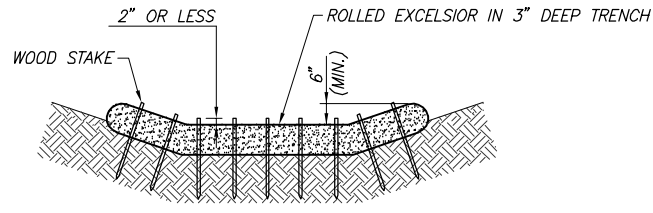
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 30 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



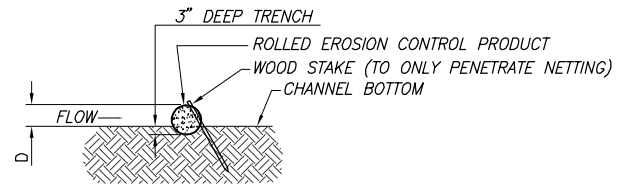
PRECAST LID DETAIL



FRAME AND CLOSED LID

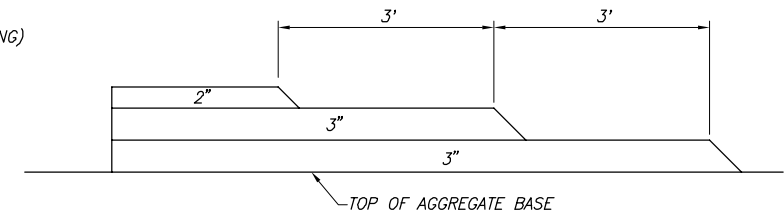


- NOTES:
- OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
 - 2' SPACING FOR ROLLED EXCELSIOR.
 - RECOMMENDED STAKES ARE (1 1/8" - 2") WIDE/THICK x 30" LONG.

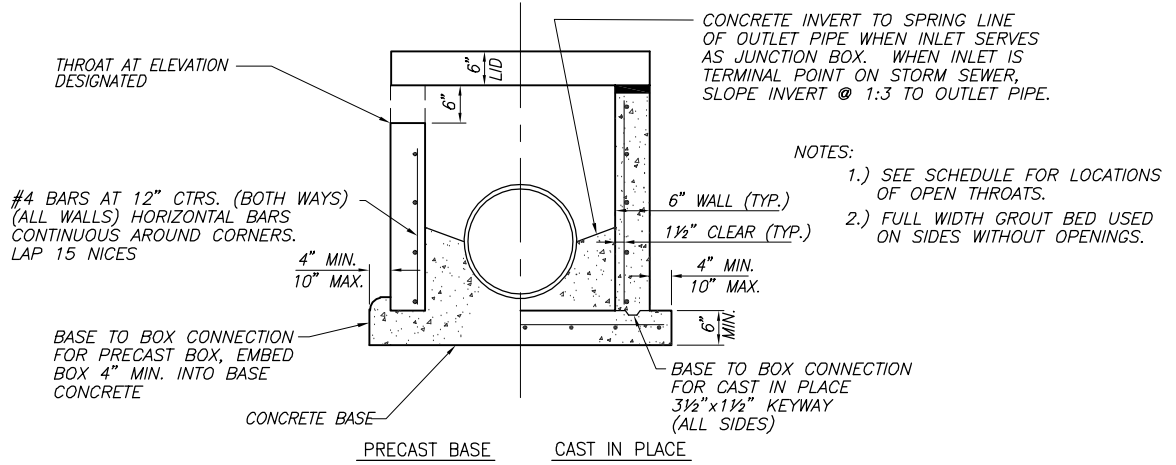


STAKE DETAIL

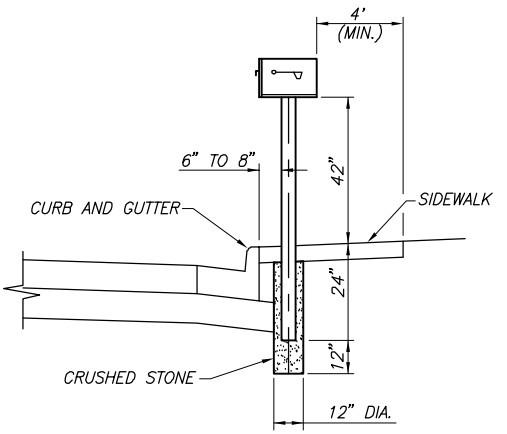
ROLLED EROSION DITCH CHECK
N.T.S.



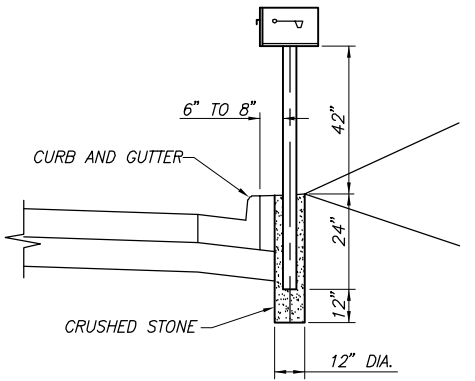
DETAIL OF PAVEMENT TRANSITION BETWEEN PHASES
N.T.S.



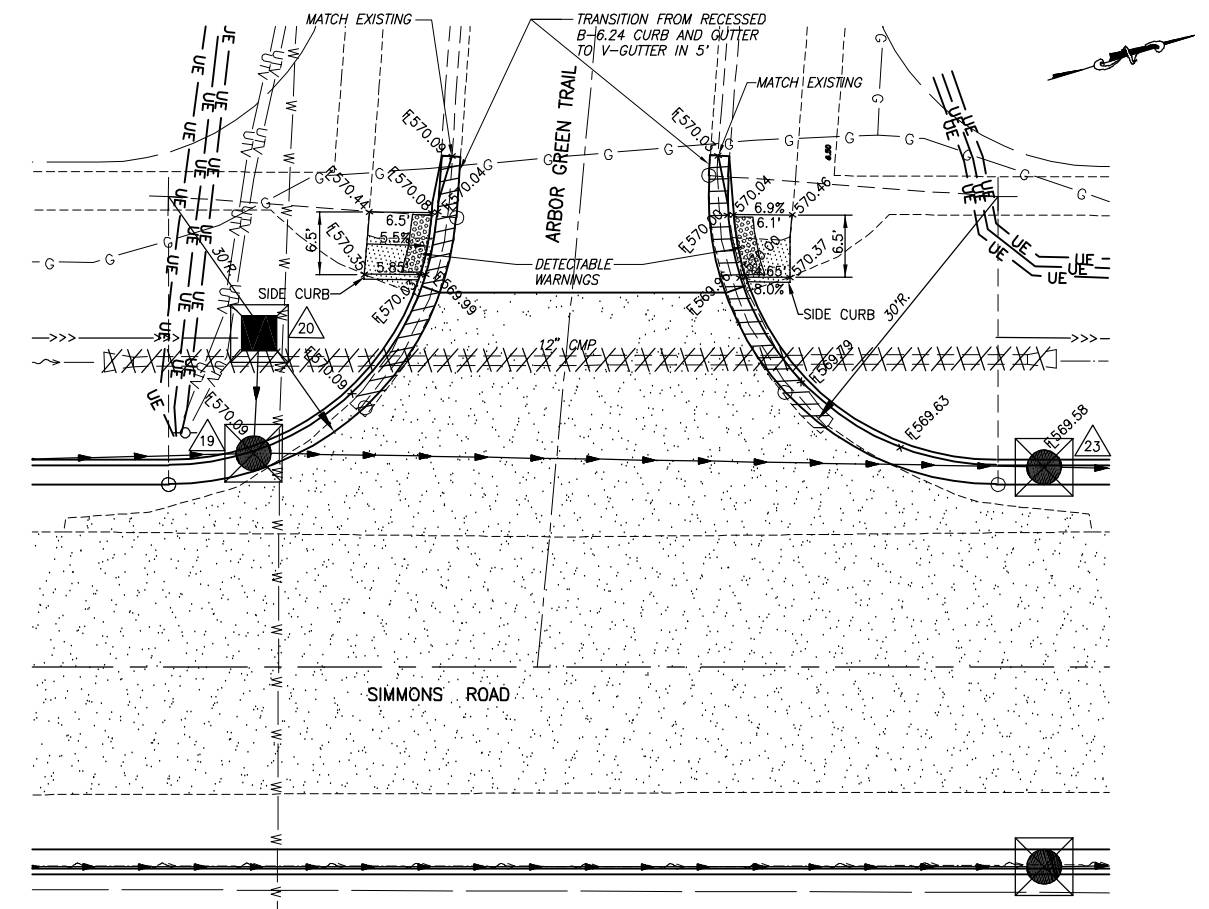
INLETS, SPECIAL, NO. 1 W/THROATED OPENINGS
N.T.S.



MAILBOX WITH SIDEWALK DETAIL
N.T.S.

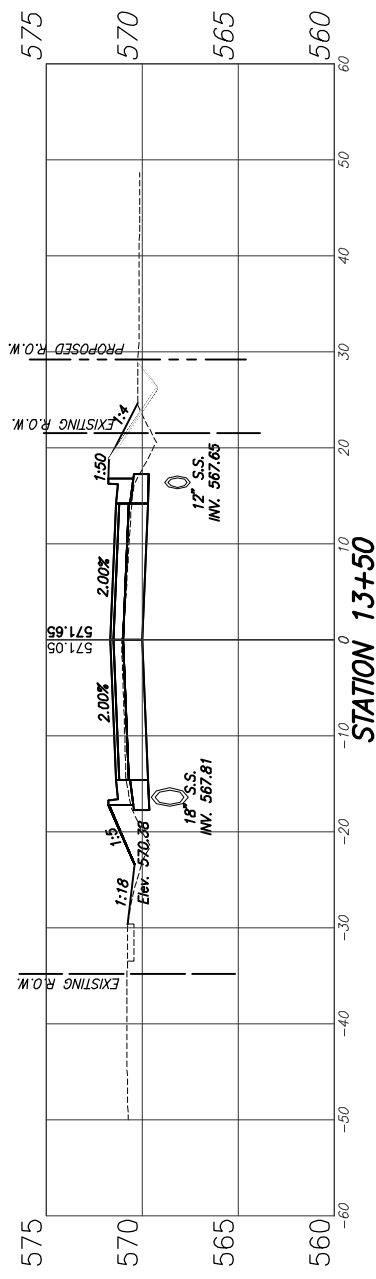


MAILBOX WITHOUT SIDEWALK DETAIL
N.T.S.

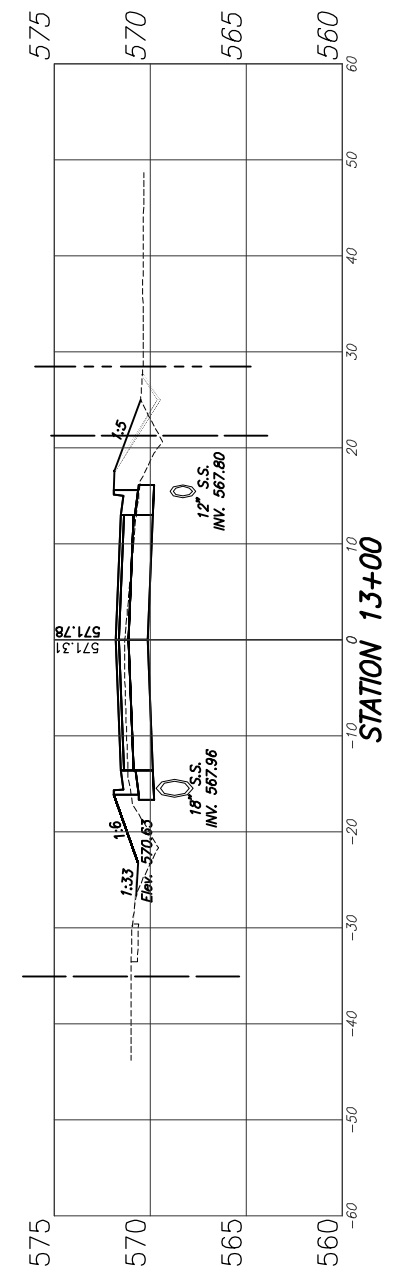


CURB & SIDEWALK DETAIL
SCALE: 1" = 10'

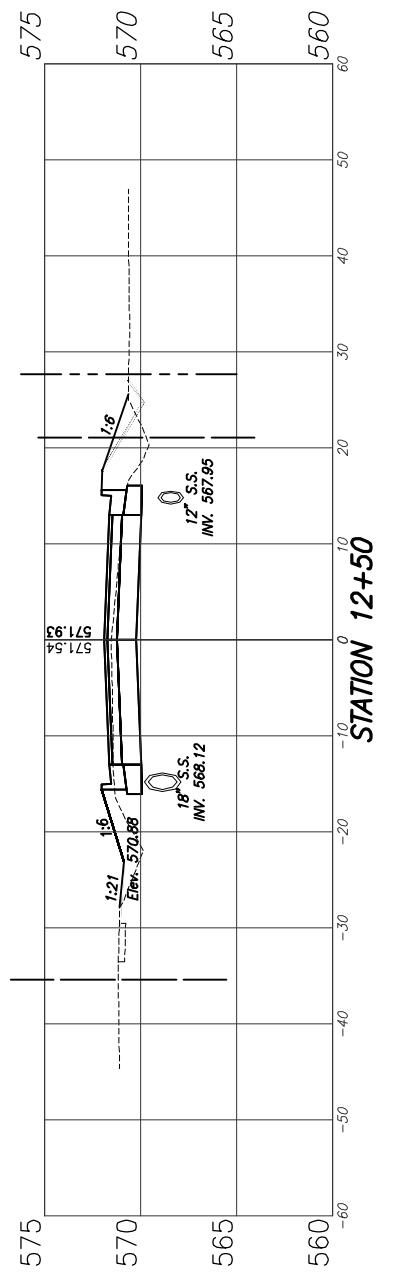
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 31 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



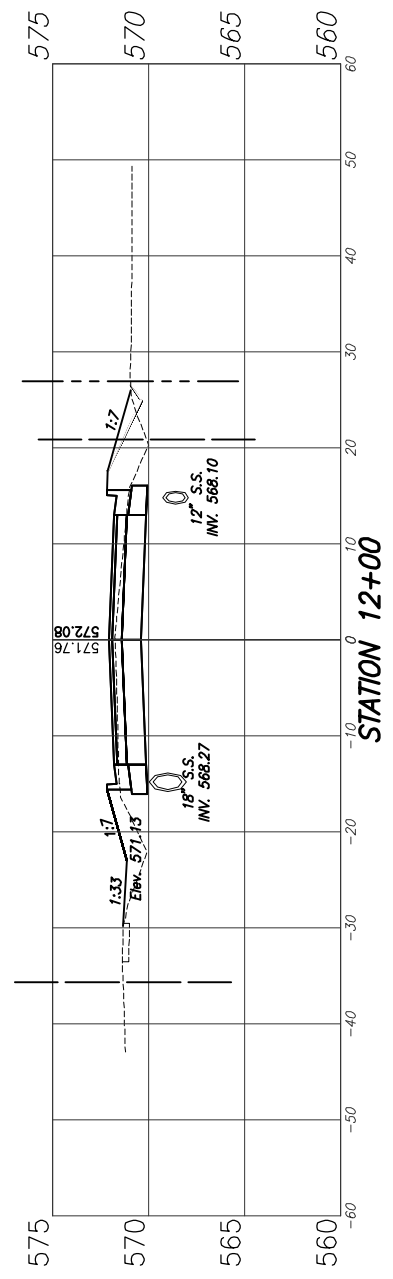
CUT = 28.3 S.F.
FILL = 18.2 S.F.



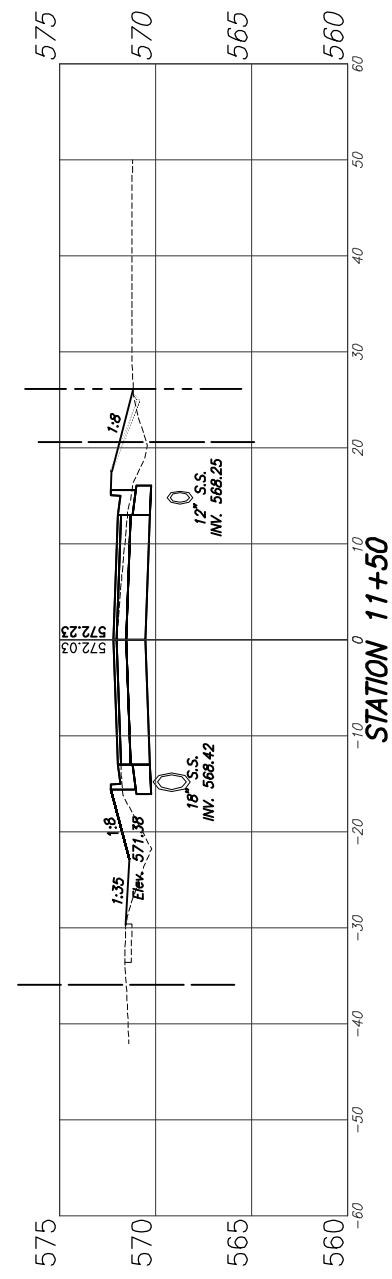
CUT = 30.4 S.F.
FILL = 20.9 S.F.



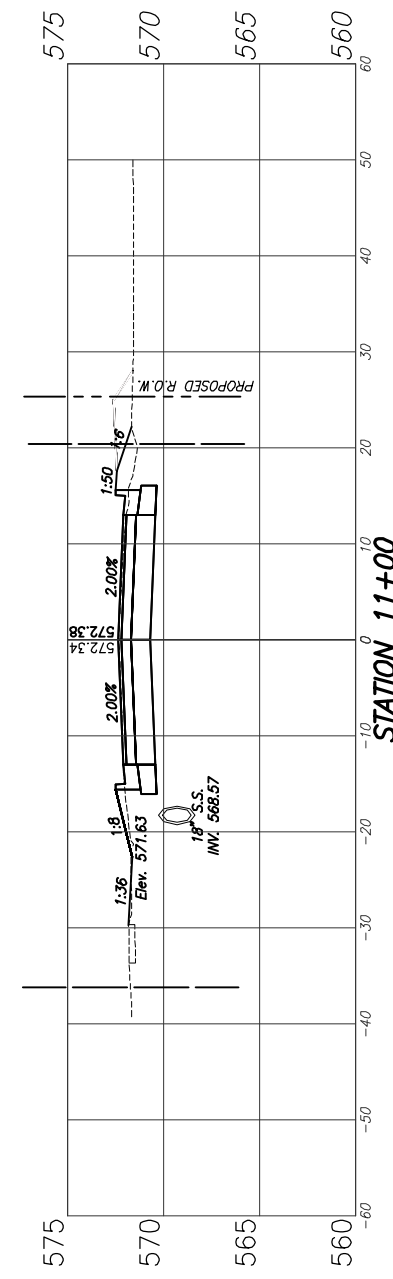
CUT = 33.0 S.F.
FILL = 21.3 S.F.



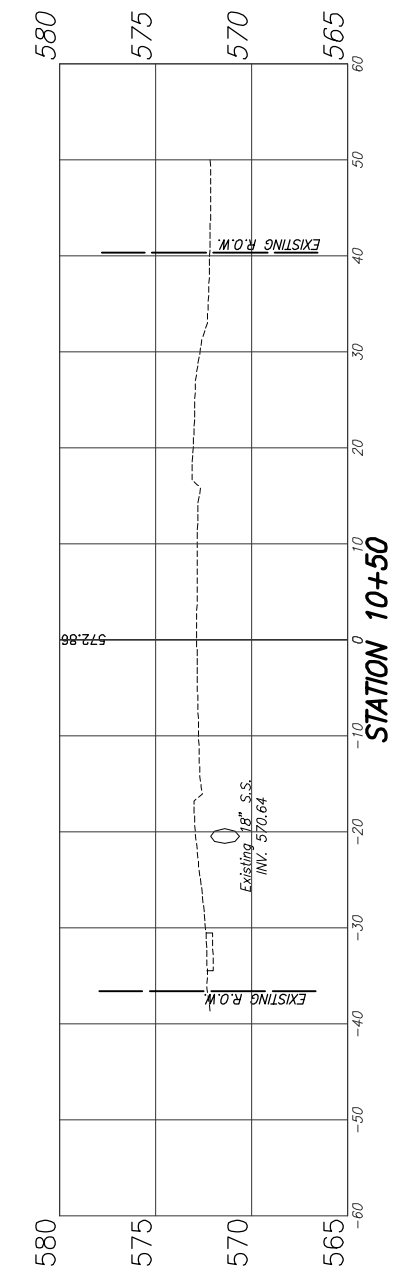
CUT = 34.1 S.F.
FILL = 21.0 S.F.



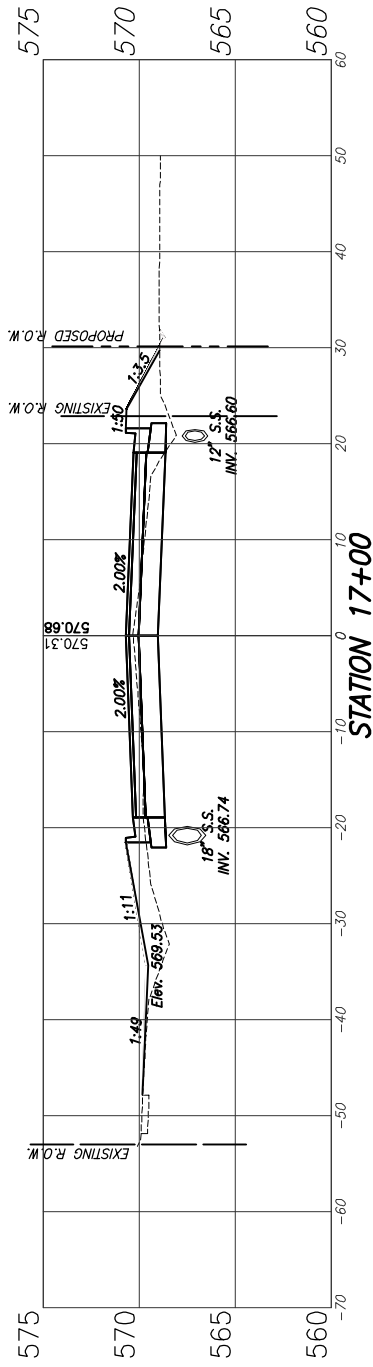
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FILL = 20.2 S.F.



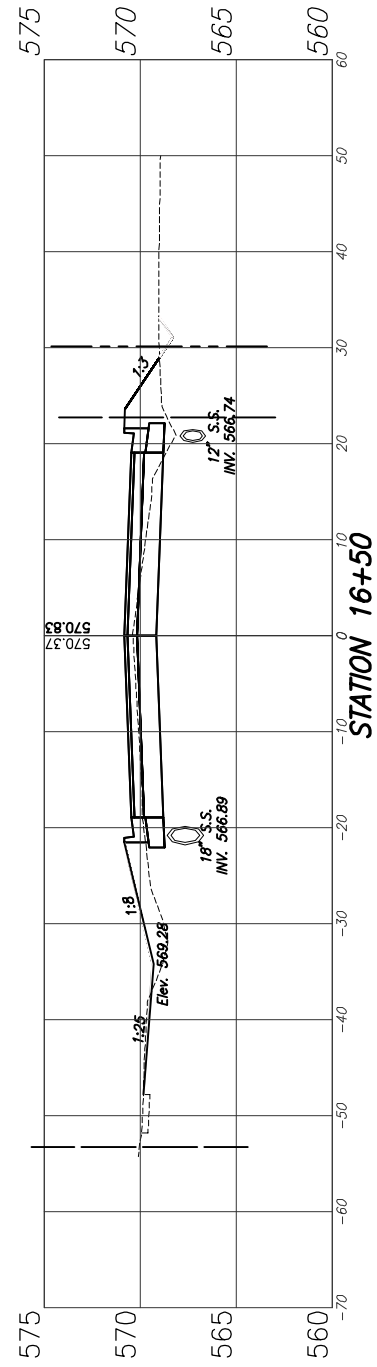
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FILL = 6.0 S.F.



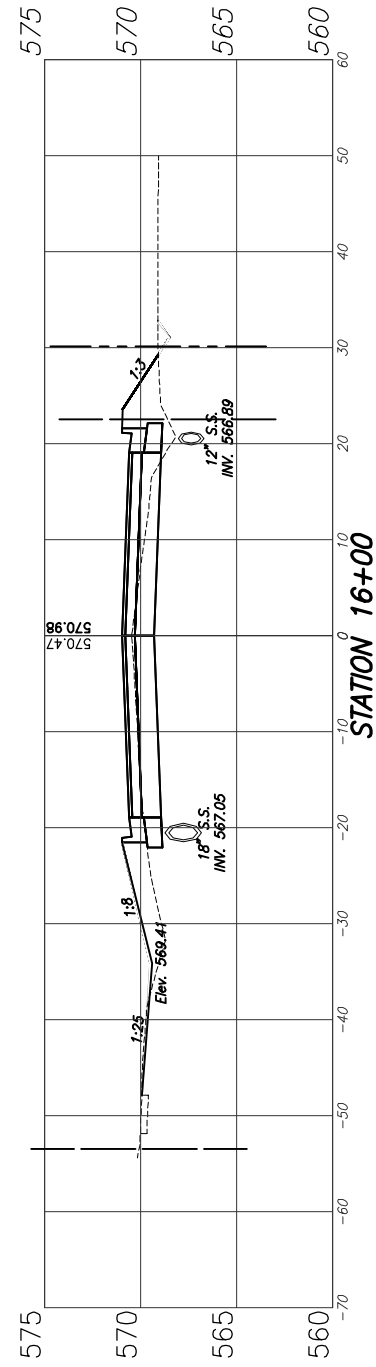
CUT = -0- S.F.
FILL = -0- S.F.



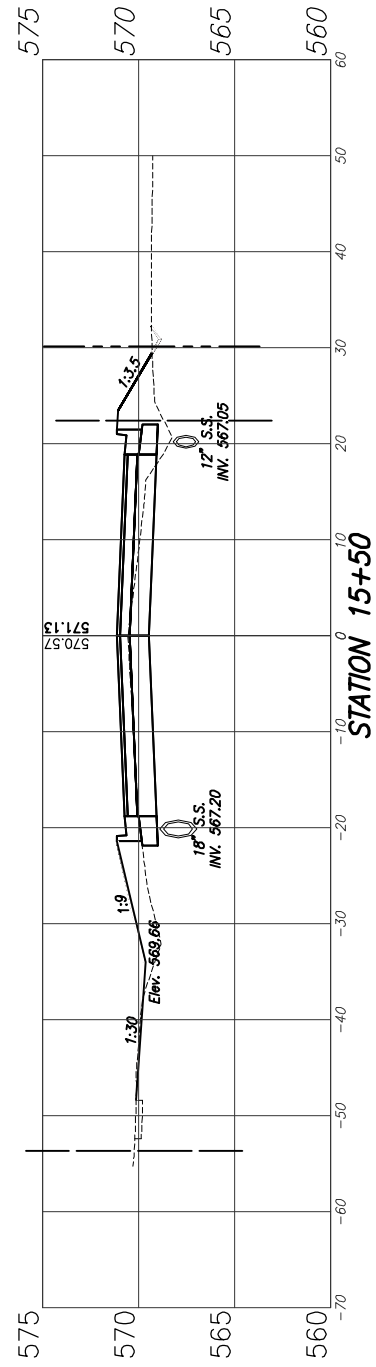
CUT = 35.6 S.F.
FILL = 25.6 S.F.



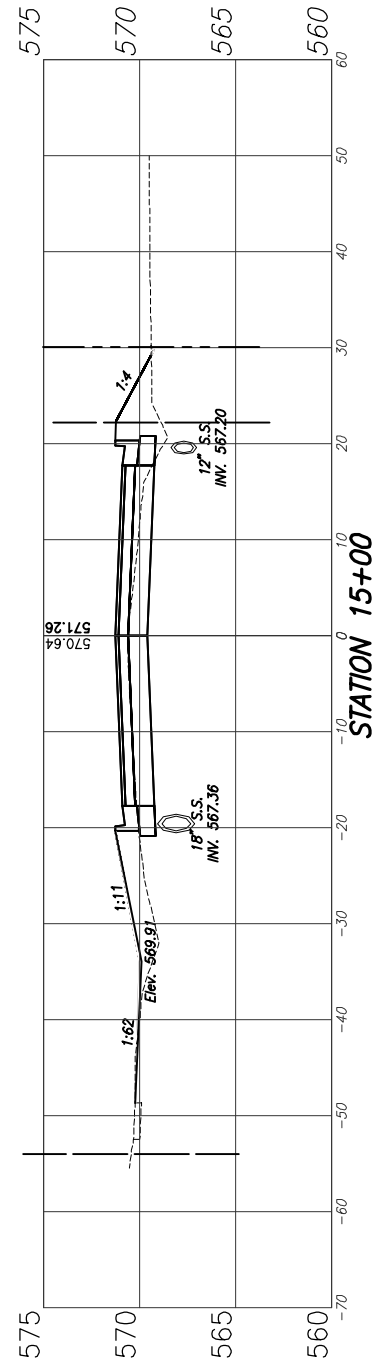
CUT = 33.1 S.F.
FILL = 22.8 S.F.



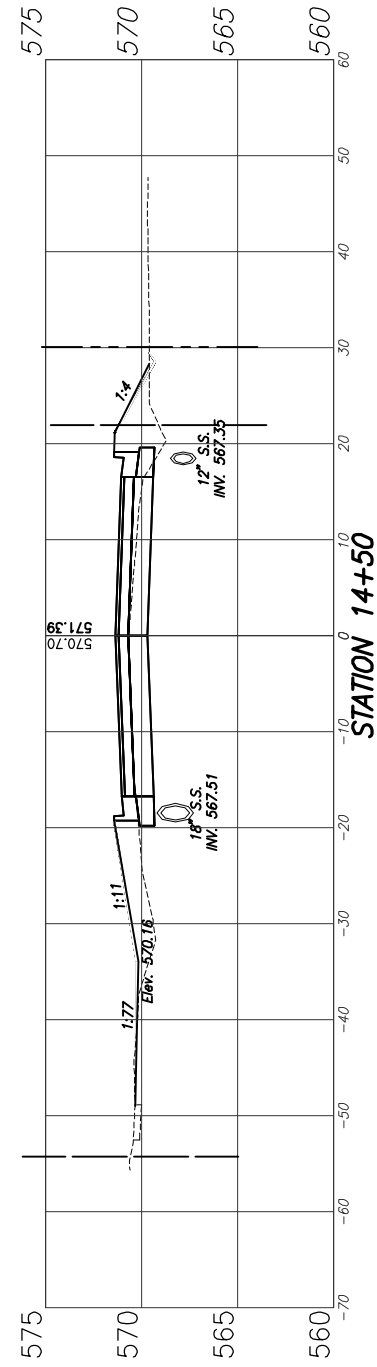
CUT = 30.5 S.F.
FILL = 24.0 S.F.



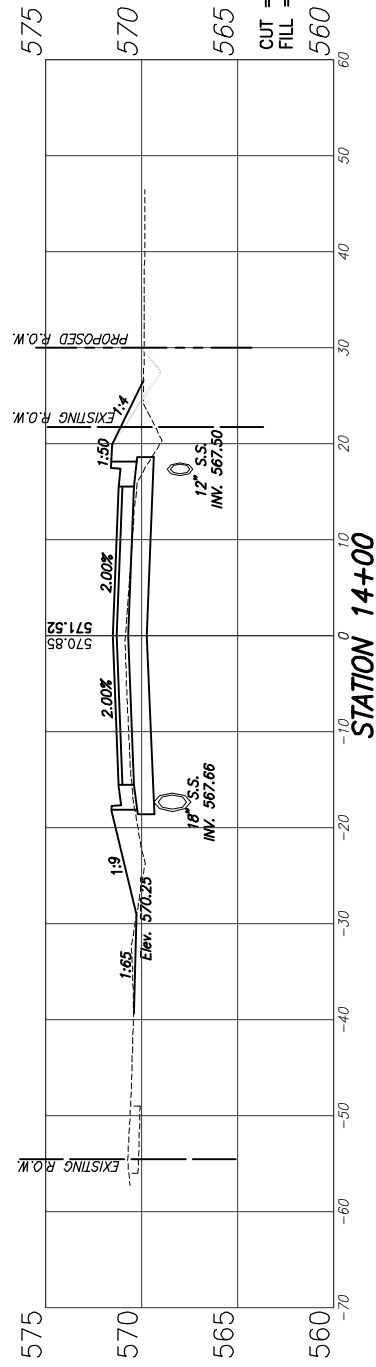
CUT = 29.8 S.F.
FILL = 26.0 S.F.



CUT = 27.7 S.F.
FILL = 28.2 S.F.

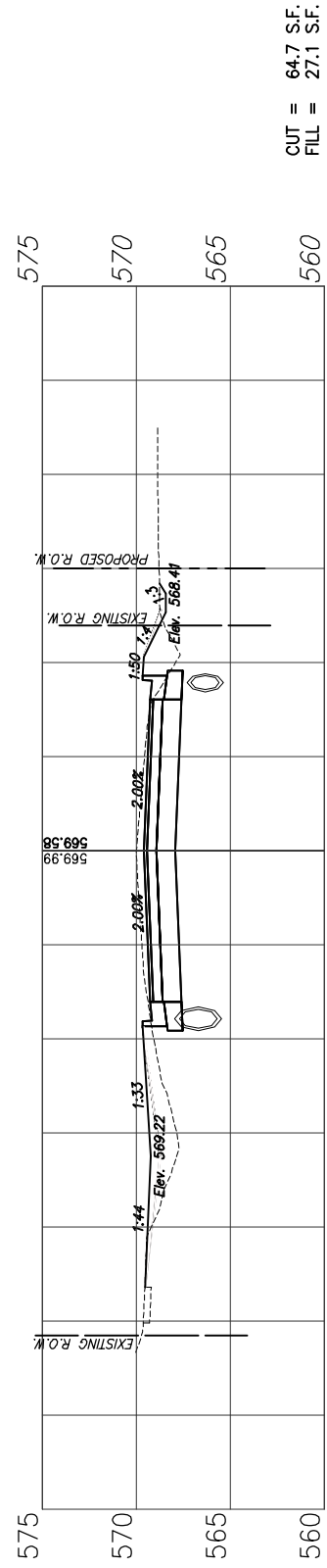


CUT = 27.0 S.F.
FILL = 28.6 S.F.



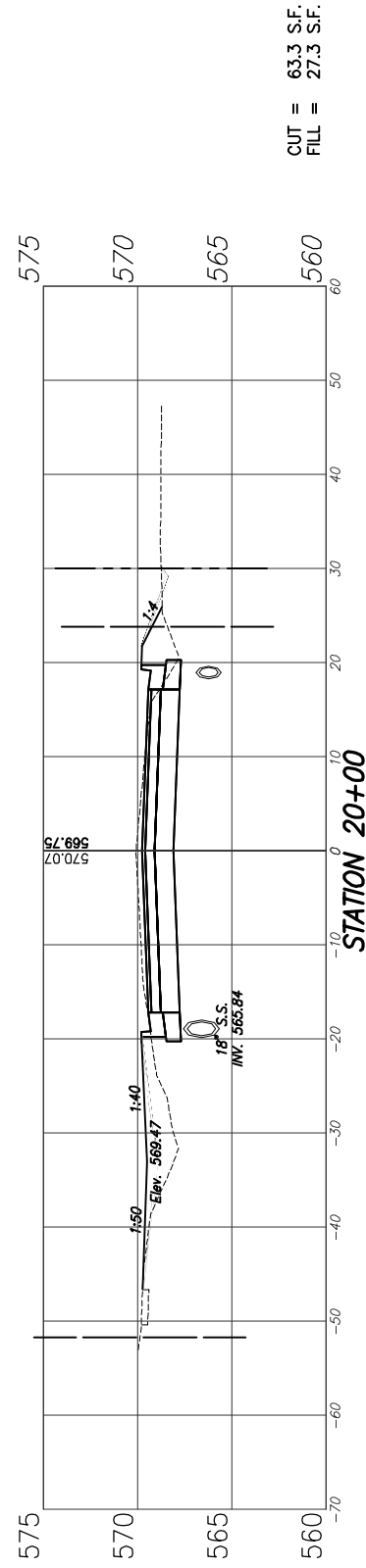
CUT = 32.3 S.F.
FILL = 20.7 S.F.

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 32 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



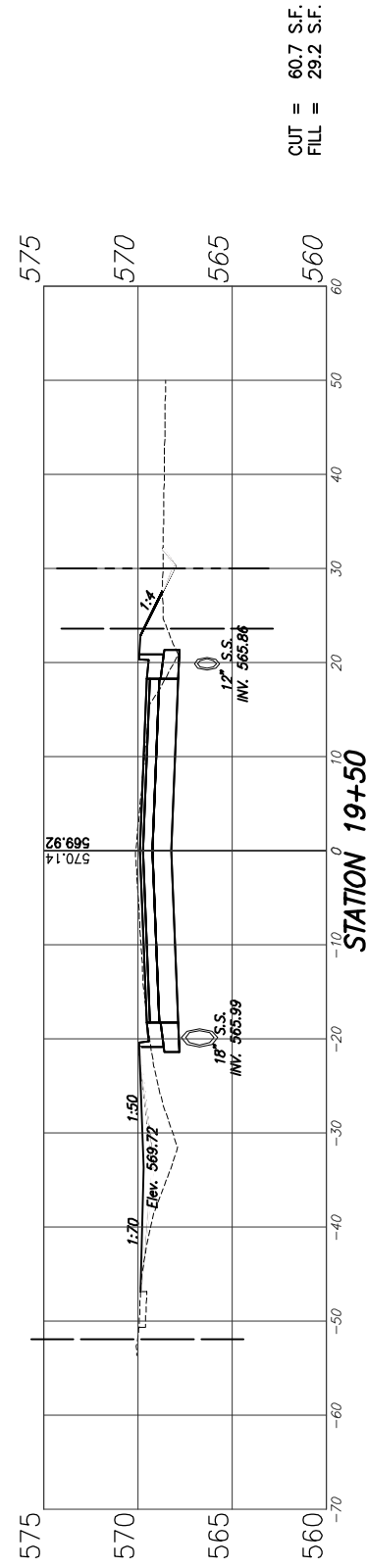
CUT = 64.7 S.F.
FILL = 27.1 S.F.

STATION 20+50



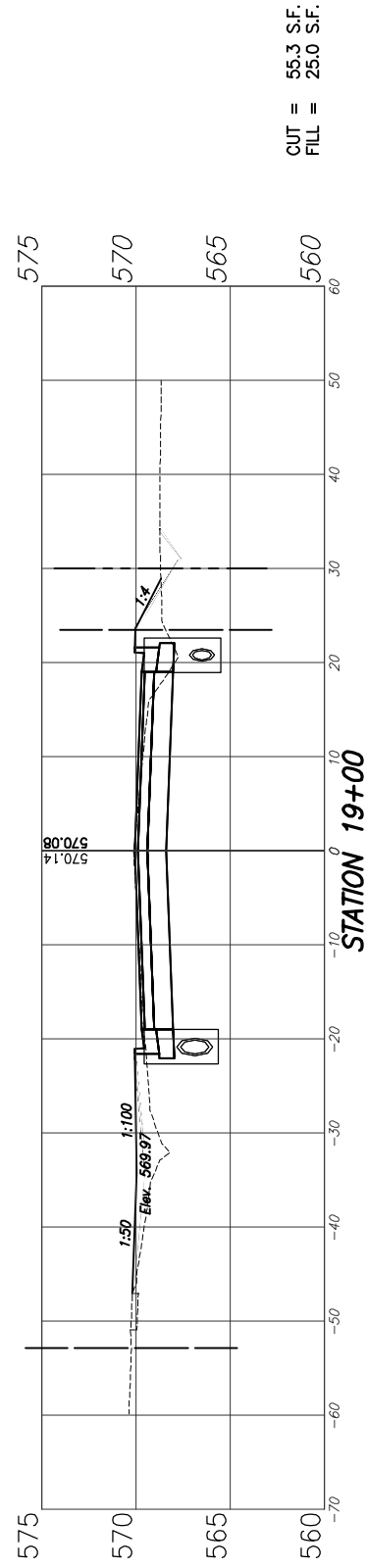
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STATION 20+00



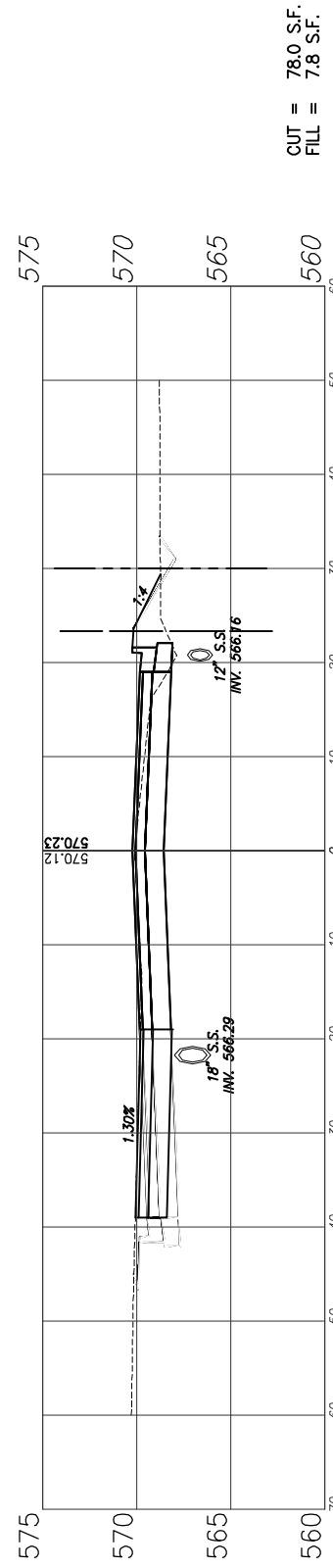
CUT = 60.7 S.F.
FILL = 29.2 S.F.

STATION 19+50



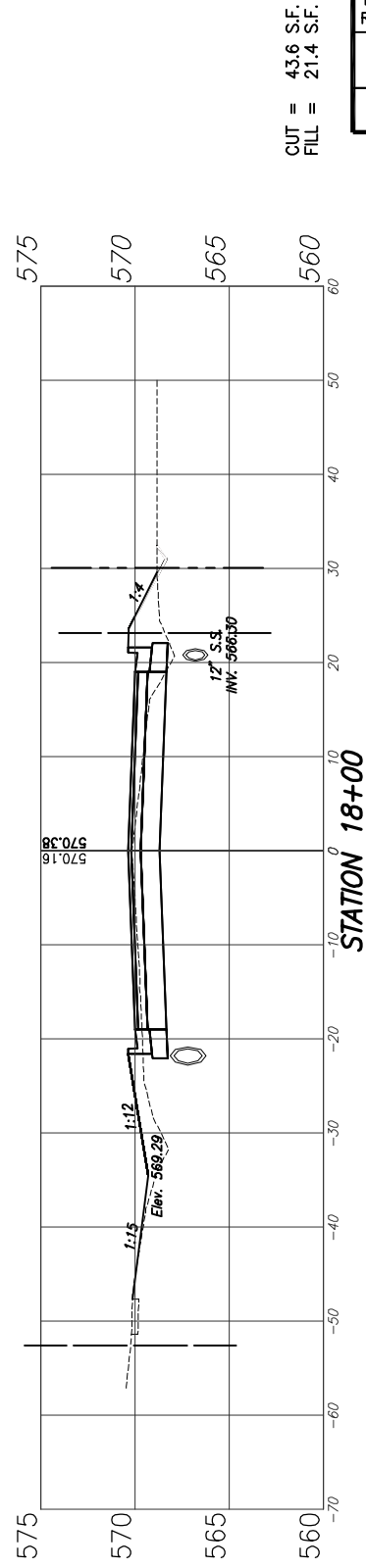
CUT = 55.3 S.F.
FILL = 25.0 S.F.

STATION 19+00



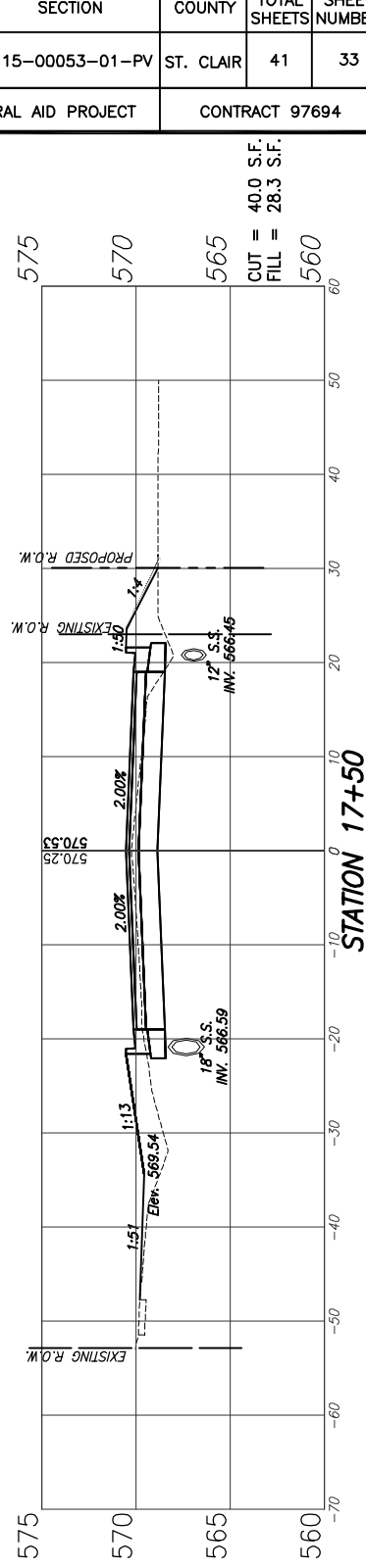
CUT = 78.0 S.F.
FILL = 7.8 S.F.

STATION 18+50
(ARBOR GREEN TRAIL, LT.)



CUT = 43.6 S.F.
FILL = 21.4 S.F.

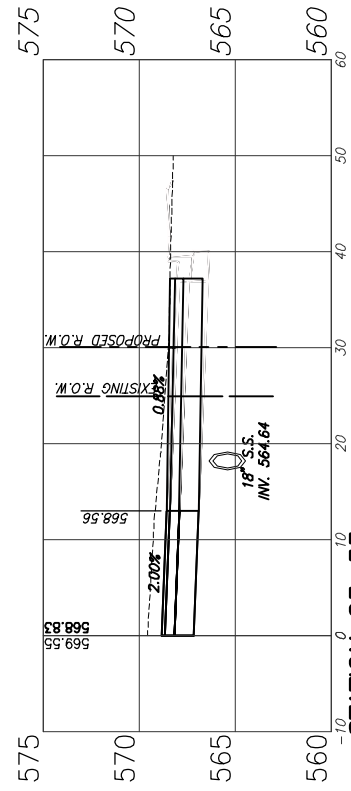
STATION 18+00



CUT = 40.0 S.F.
FILL = 28.3 S.F.

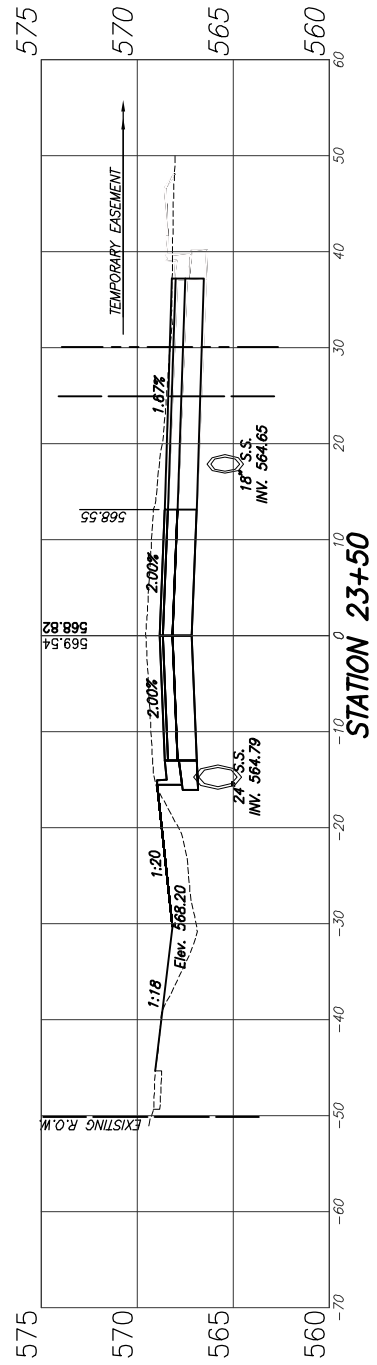
STATION 17+50

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 33 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



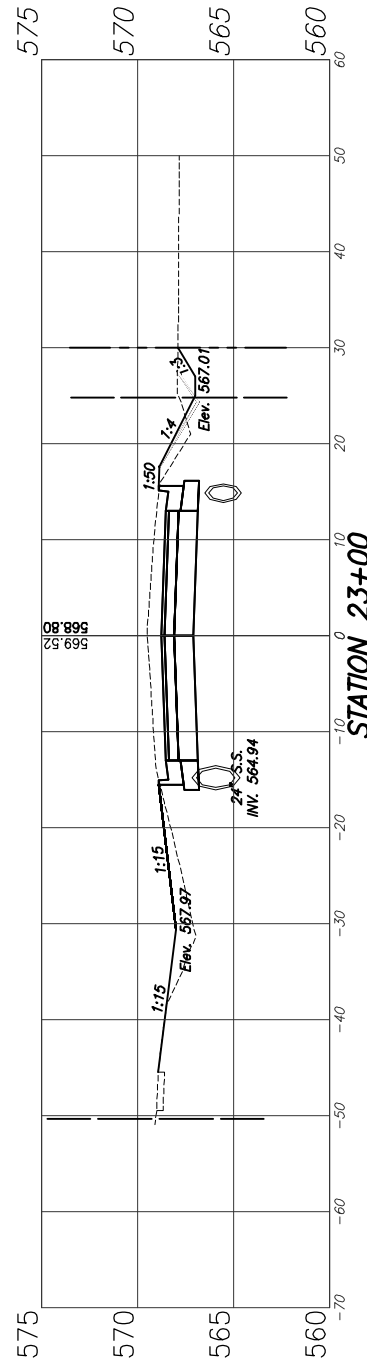
STATION 23+53
(LAKEVIEW LANE, RT.)

CUT = 82.9 S.F.
FILL = 20.0 S.F.



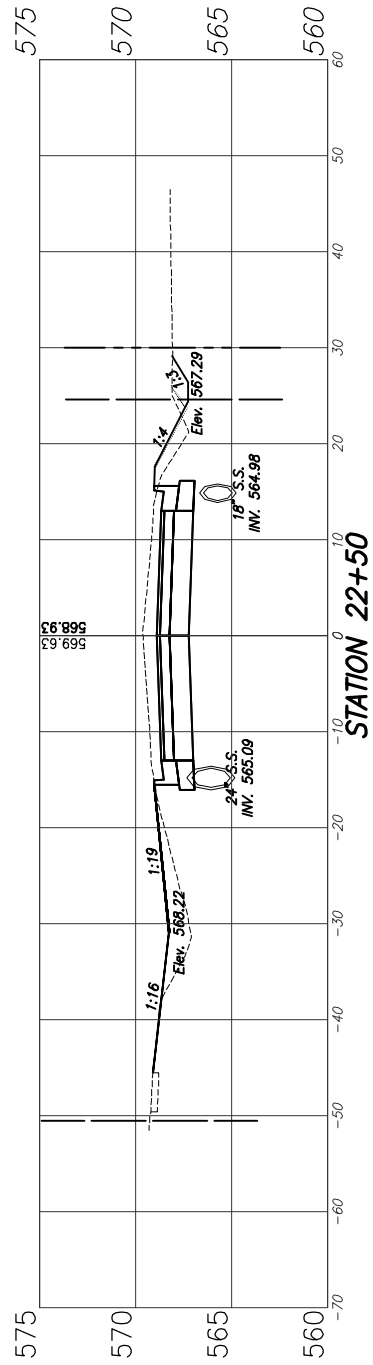
STATION 23+50

CUT = 67.8 S.F.
FILL = 16.0 S.F.



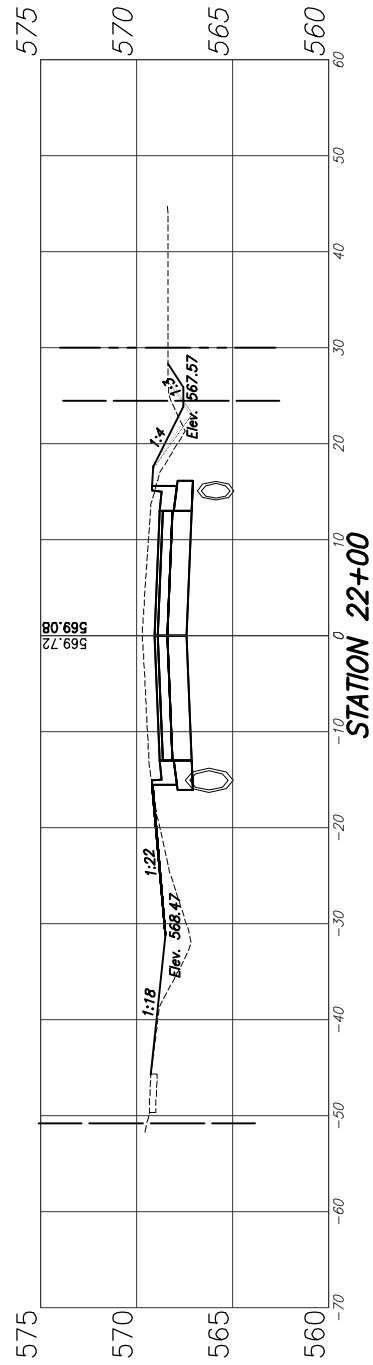
STATION 23+00

CUT = 65.6 S.F.
FILL = 17.8 S.F.



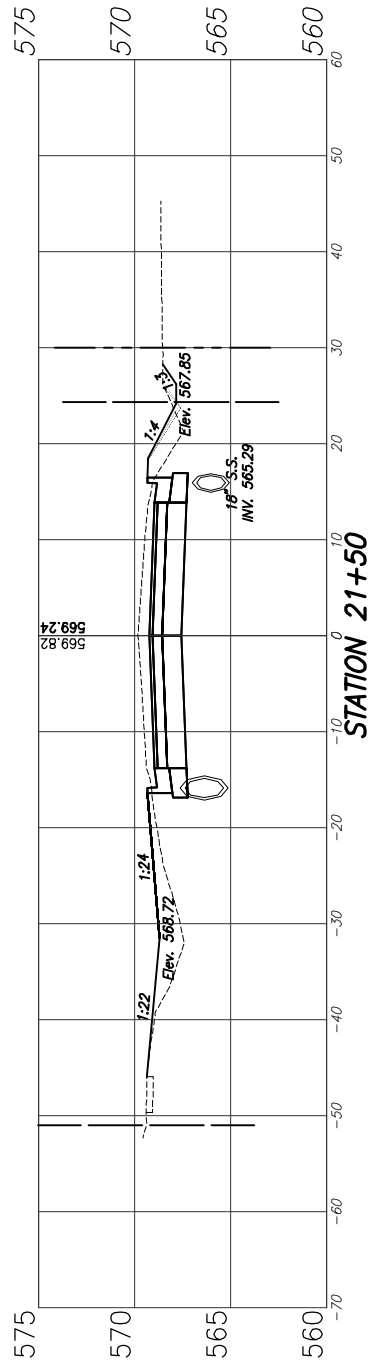
STATION 22+50

CUT = 65.5 S.F.
FILL = 18.0 S.F.



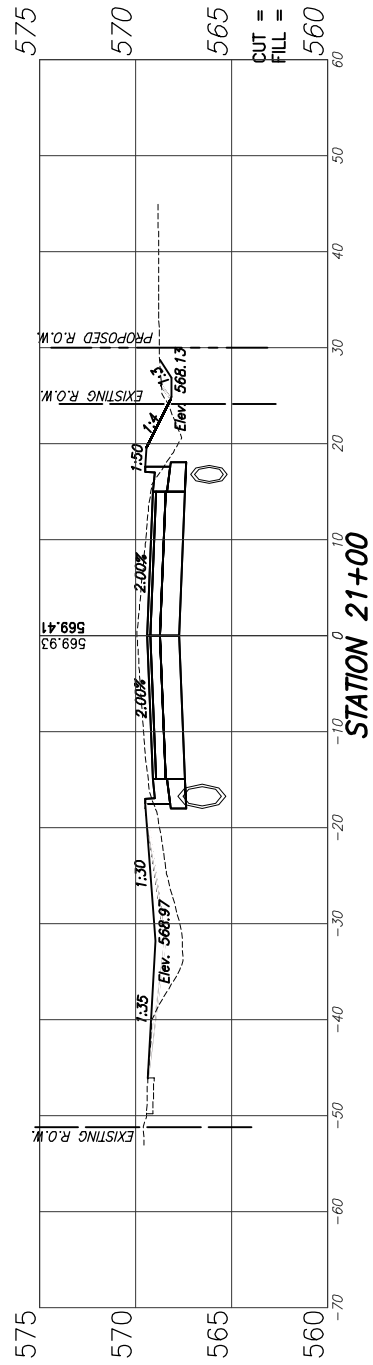
STATION 22+00

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FILL = 22.7 S.F.



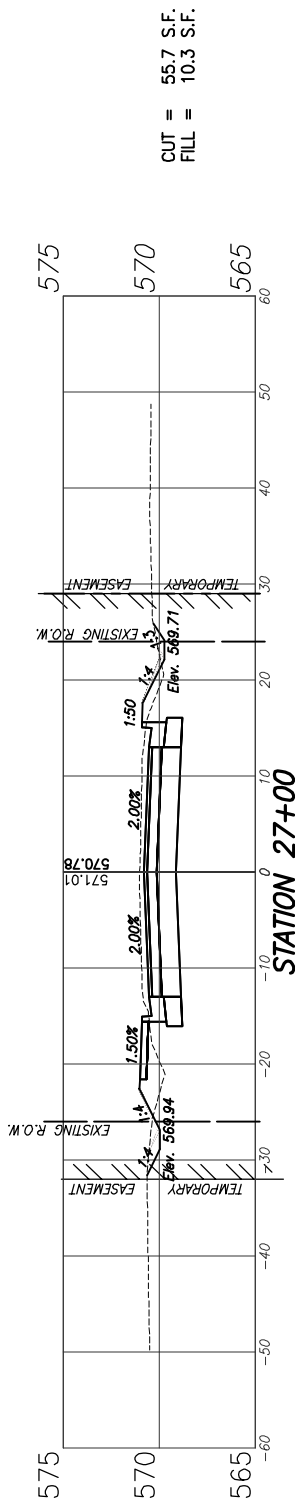
STATION 21+50

CUT = 65.4 S.F.
FILL = 28.0 S.F.



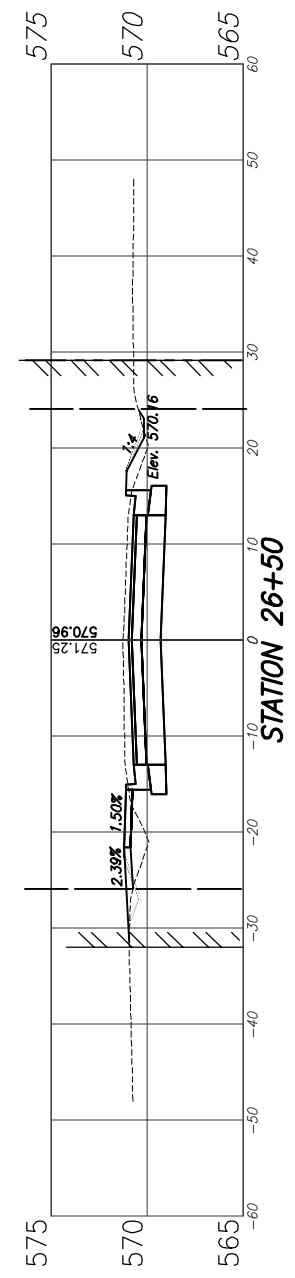
STATION 21+00

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 34 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



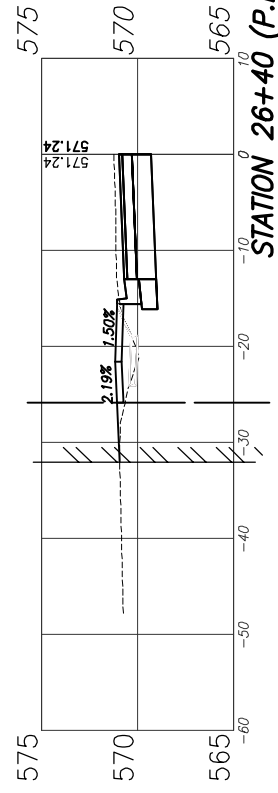
CUT = 55.7 S.F.
FILL = 10.3 S.F.

STATION 27+00

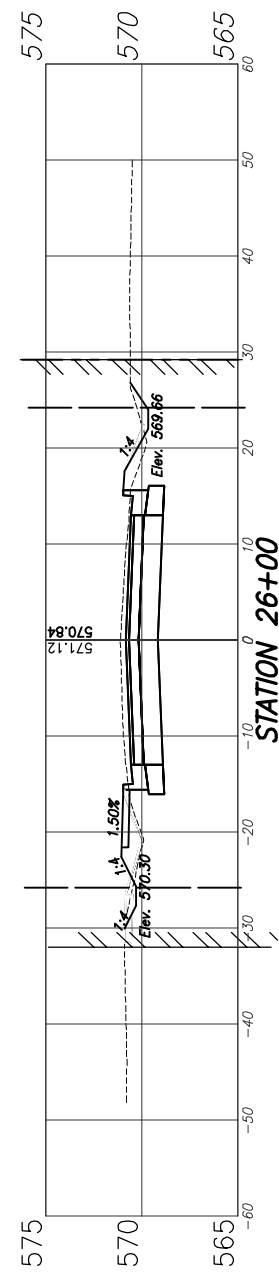


CUT = 56.2 S.F.
FILL = 9.2 S.F.

STATION 26+50

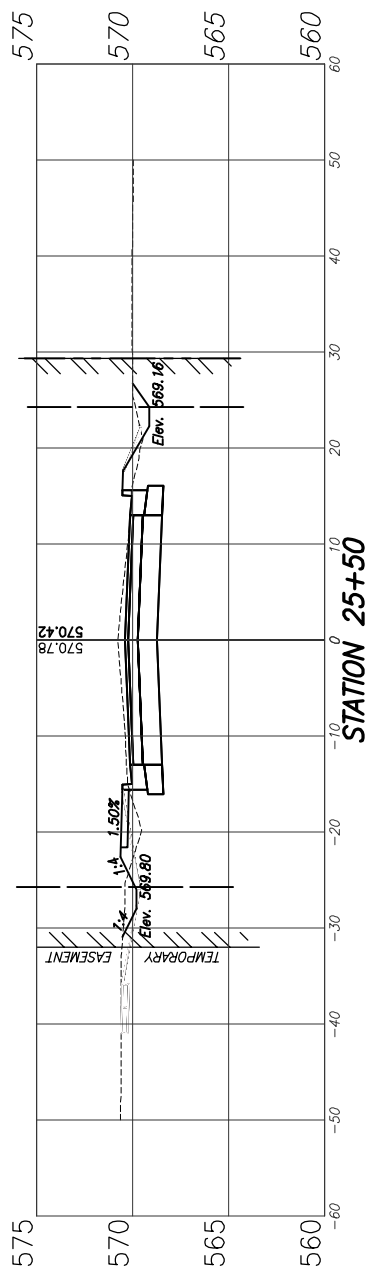


STATION 26+40 (P.E., LT.)



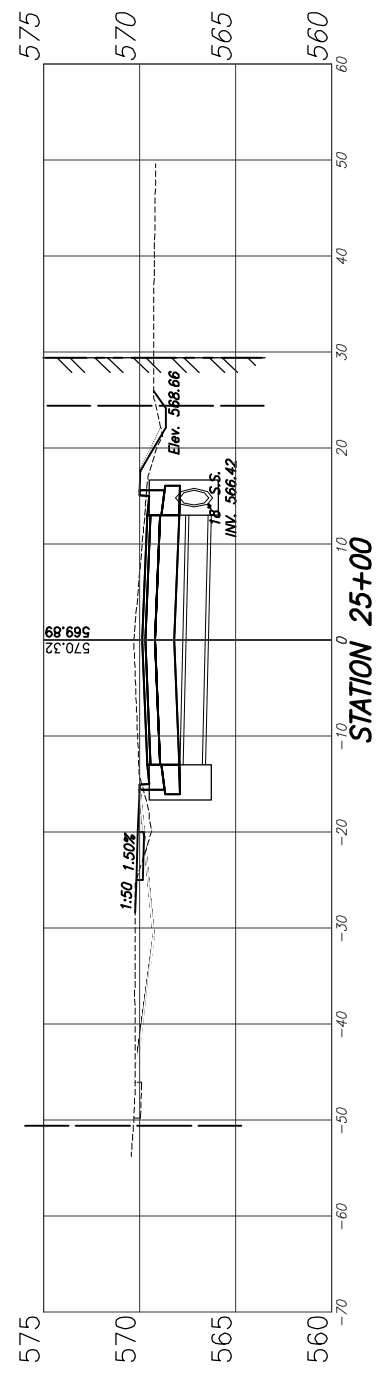
CUT = 55.4 S.F.
FILL = 9.4 S.F.

STATION 26+00



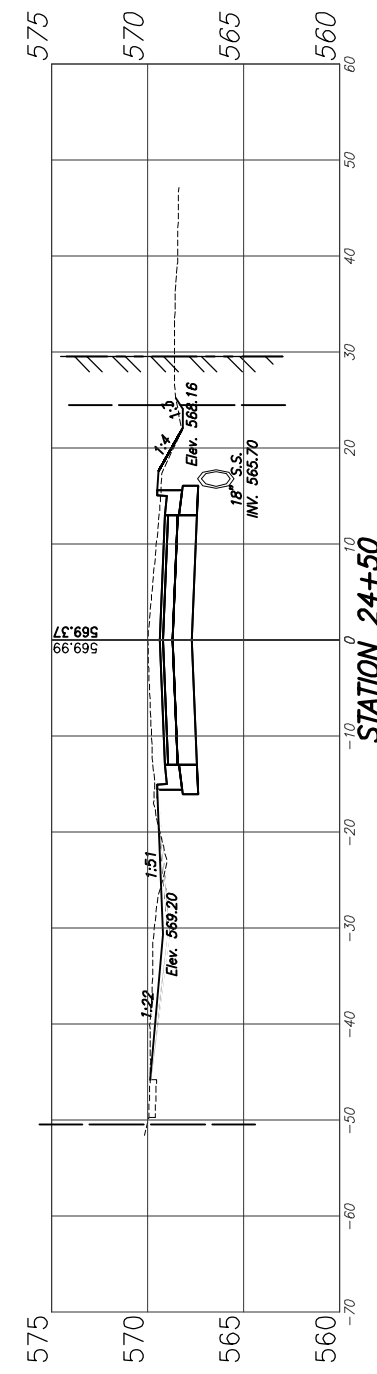
CUT = 54.3 S.F.
FILL = 7.8 S.F.

STATION 25+50



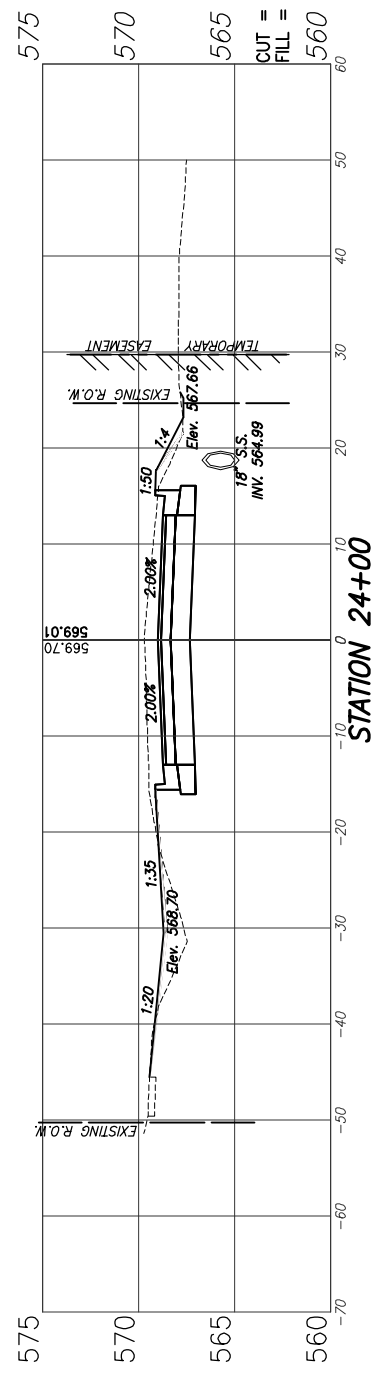
CUT = 58.3 S.F.
FILL = 4.4 S.F.

STATION 25+00



CUT = 69.4 S.F.
FILL = 1.7 S.F.

STATION 24+50

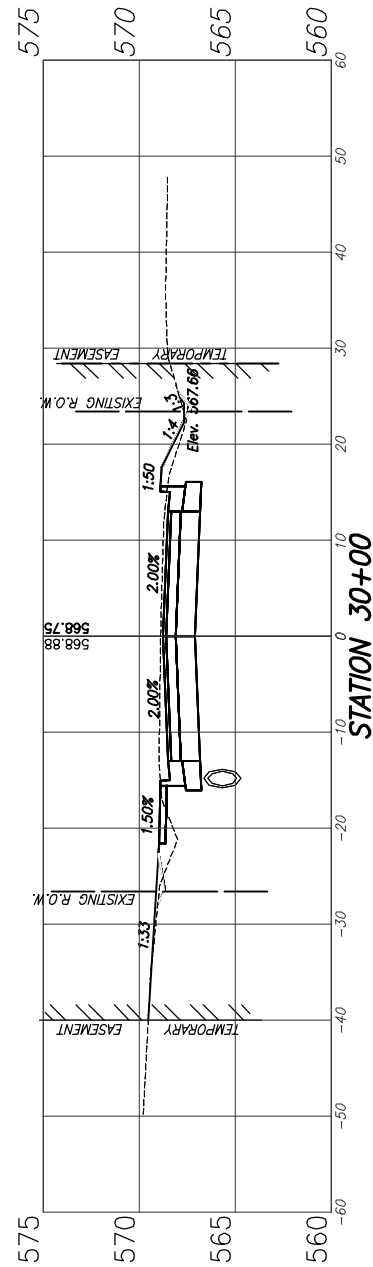


CUT = 66.3 S.F.
FILL = 13.5 S.F.

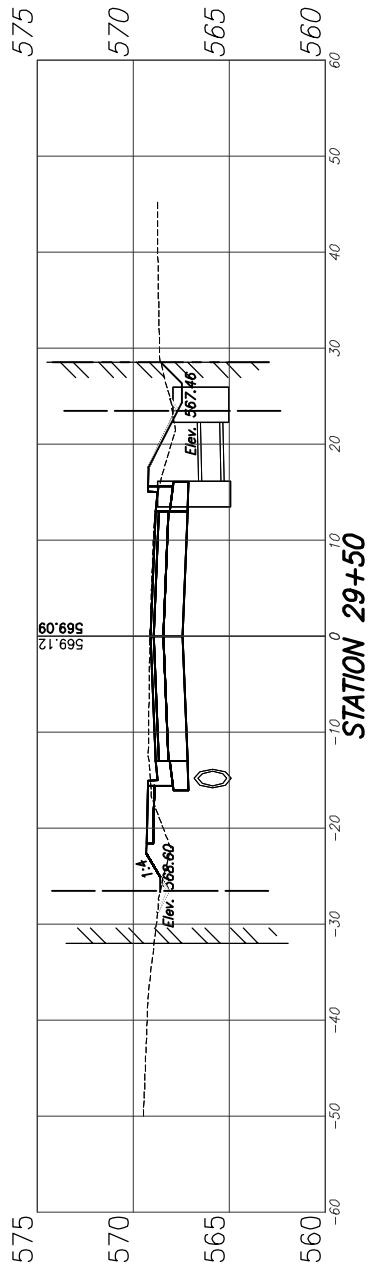
STATION 24+00

| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 35 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |

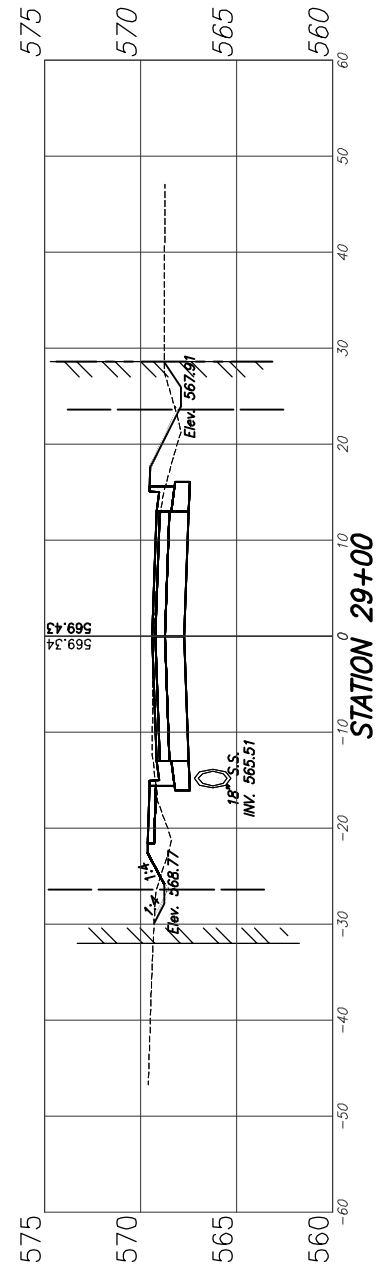
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 36 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |



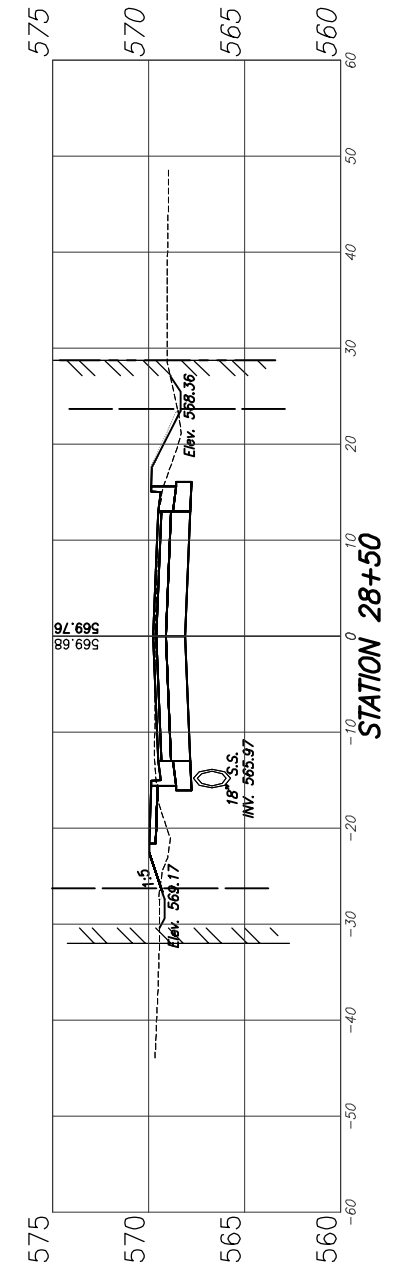
CUT = 54.2 S.F.
FILL = 6.5 S.F.



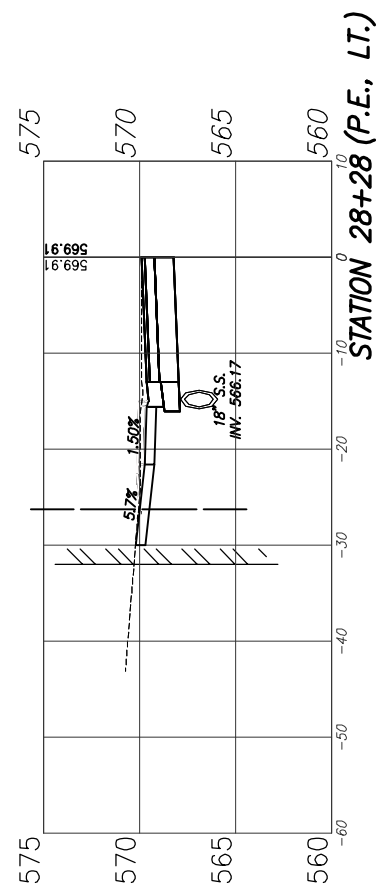
CUT = 53.0 S.F.
FILL = 8.9 S.F.



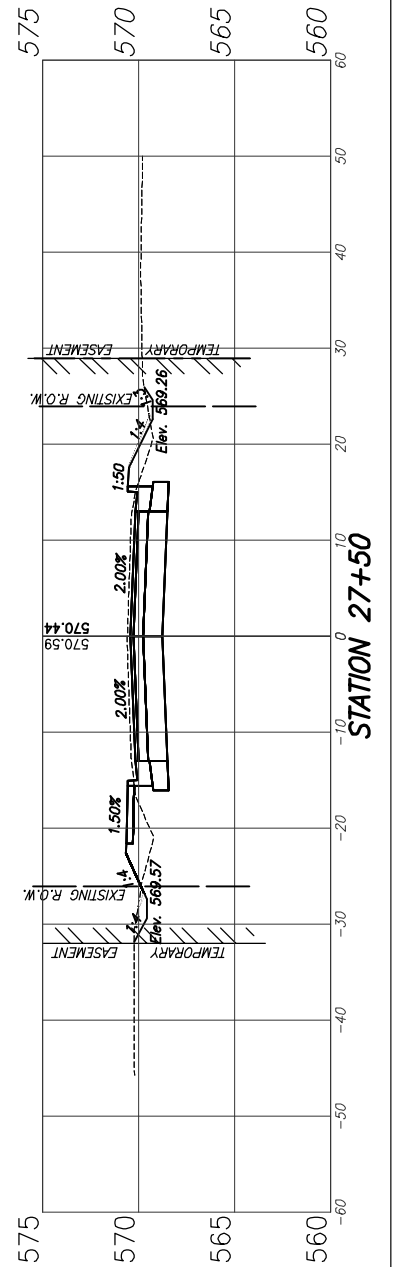
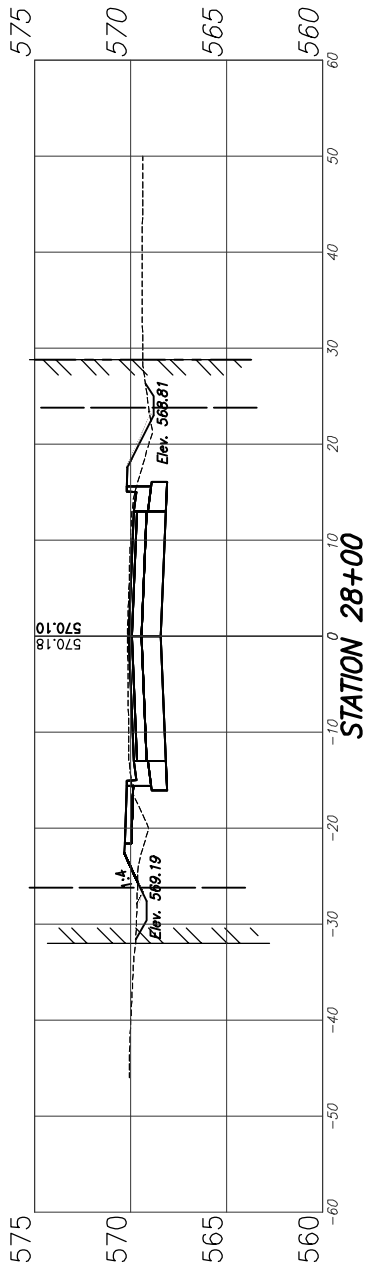
CUT = 48.8 S.F.
FILL = 10.5 S.F.



CUT = 48.3 S.F.
FILL = 9.8 S.F.

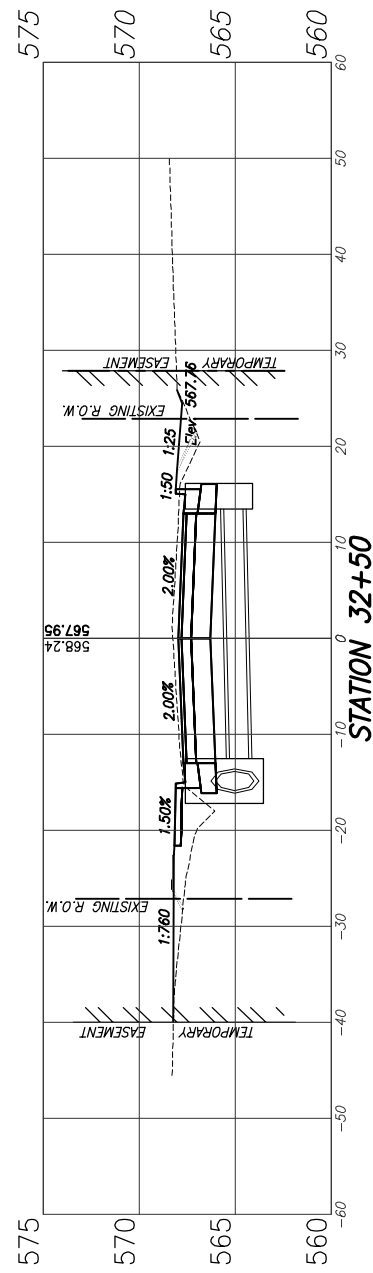


CUT = 51.2 S.F.
FILL = 8.6 S.F.

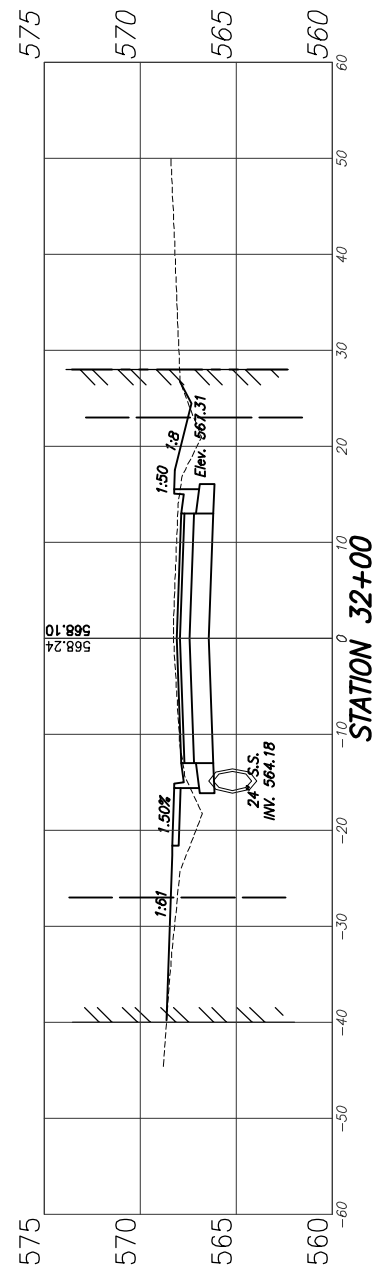


CUT = 53.5 S.F.
FILL = 10.2 S.F.

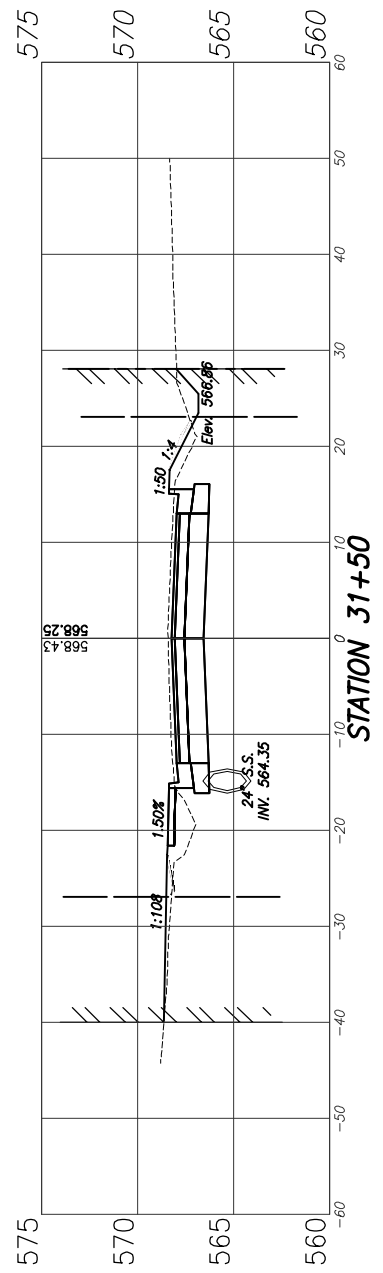
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 37 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



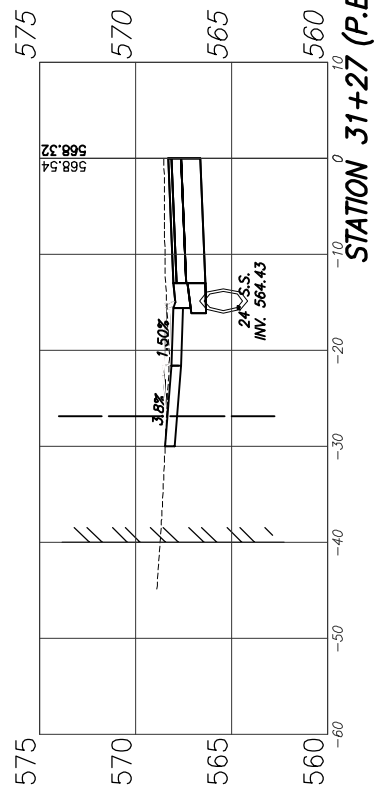
CUT = 53.5 S.F.
FILL = 18.8 S.F.



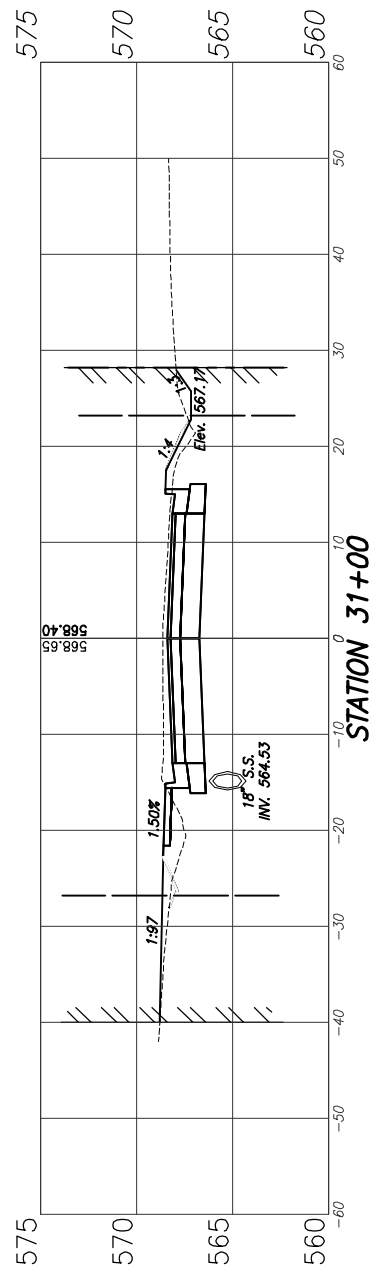
CUT = 49.7 S.F.
FILL = 15.1 S.F.



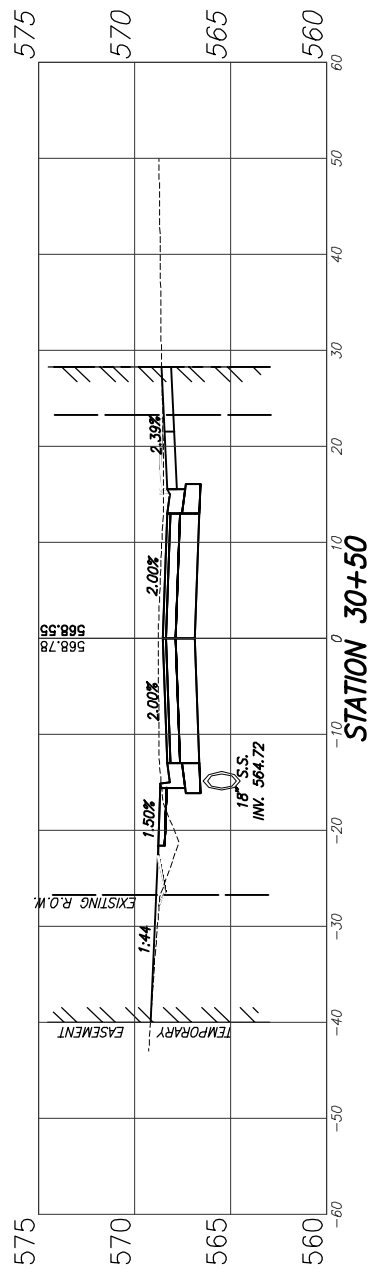
CUT = 55.4 S.F.
FILL = 11.7 S.F.



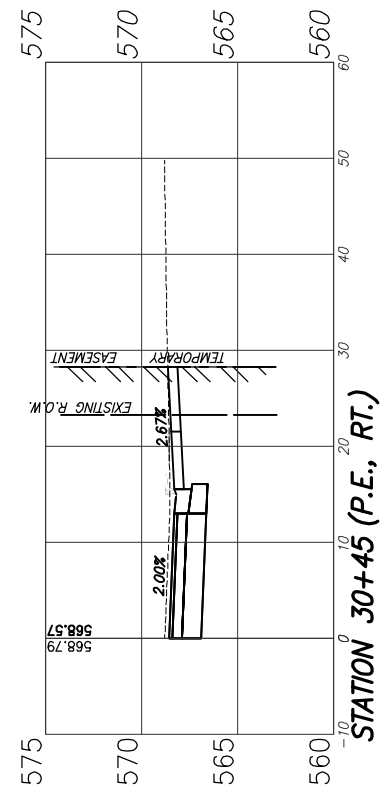
STATION 31+27 (P.E., LT.)



CUT = 57.2 S.F.
FILL = 11.5 S.F.

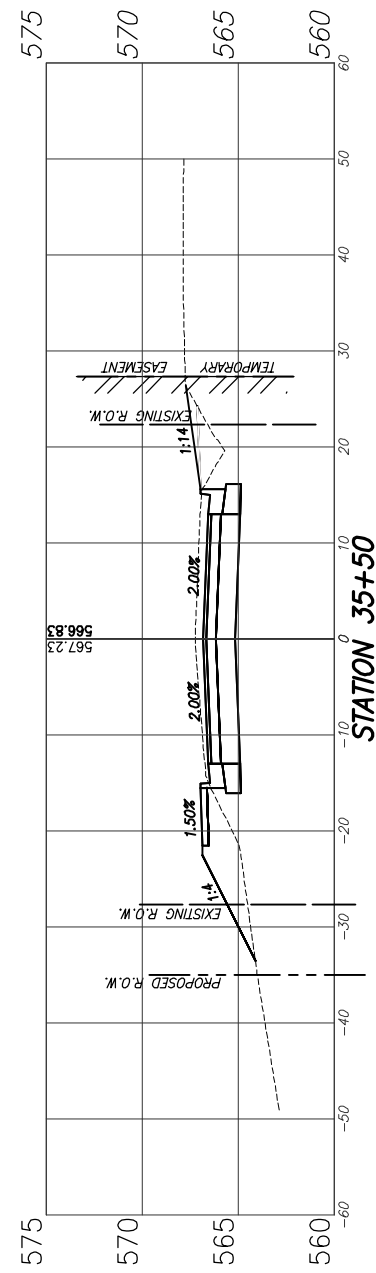


CUT = 63.4 S.F.
FILL = 5.8 S.F.

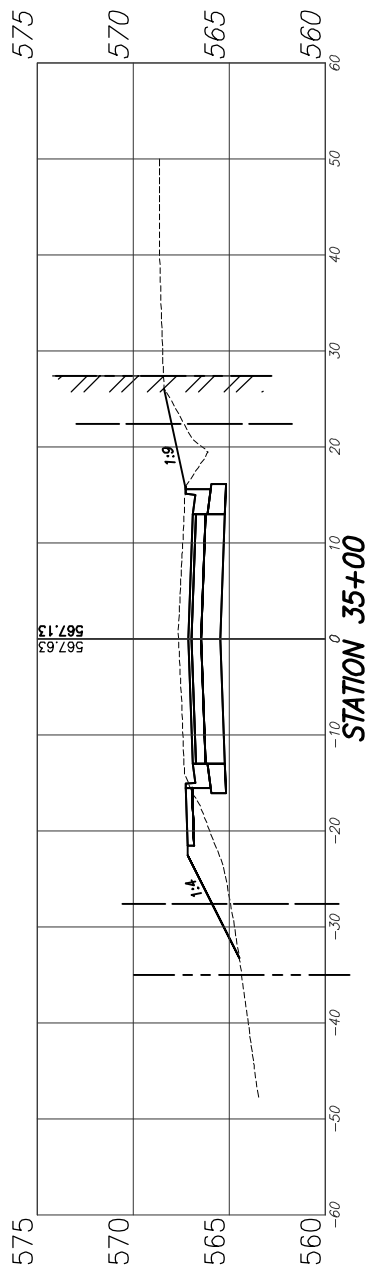


STATION 30+45 (P.E., RT.)

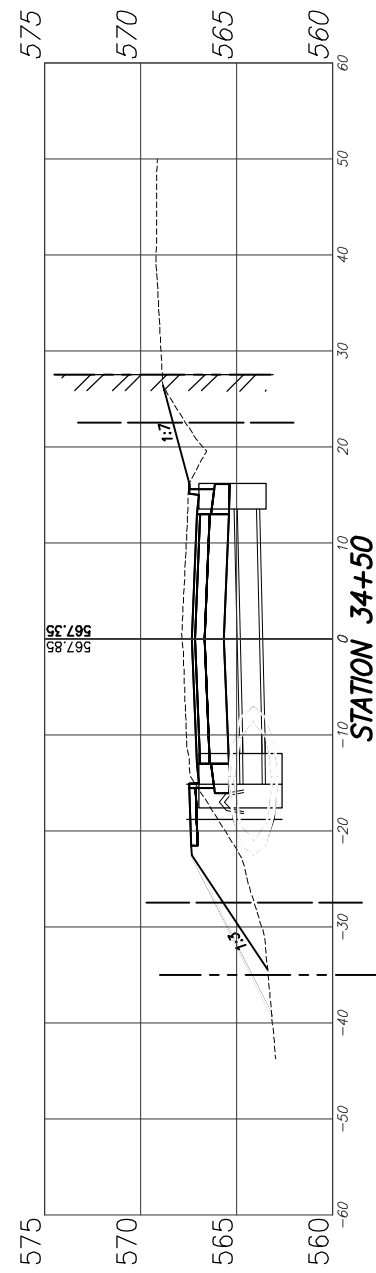
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 38 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



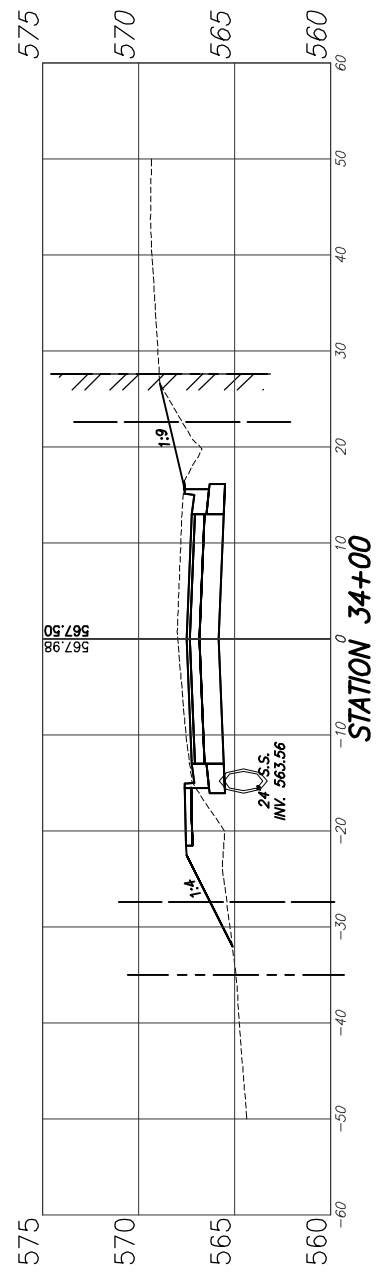
CUT = 56.5 S.F.
FILL = 26.4 S.F.



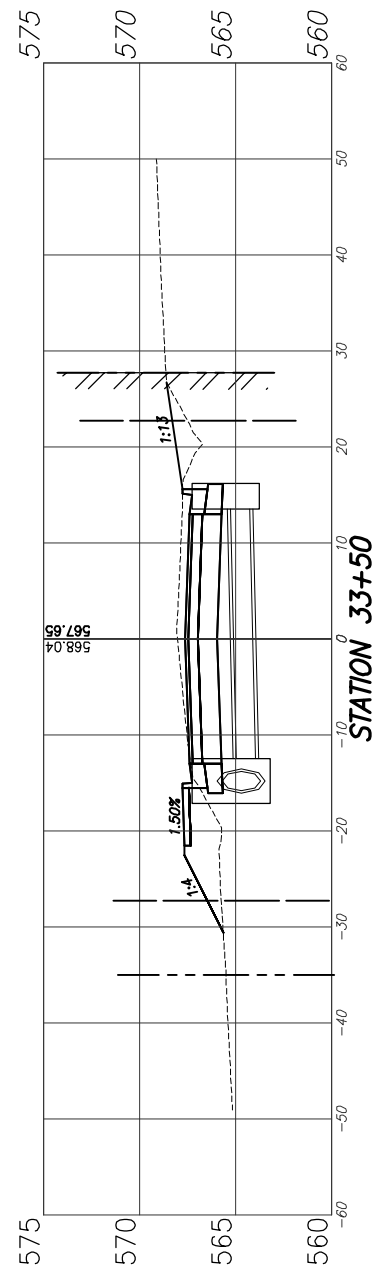
CUT = 61.1 S.F.
FILL = 21.4 S.F.



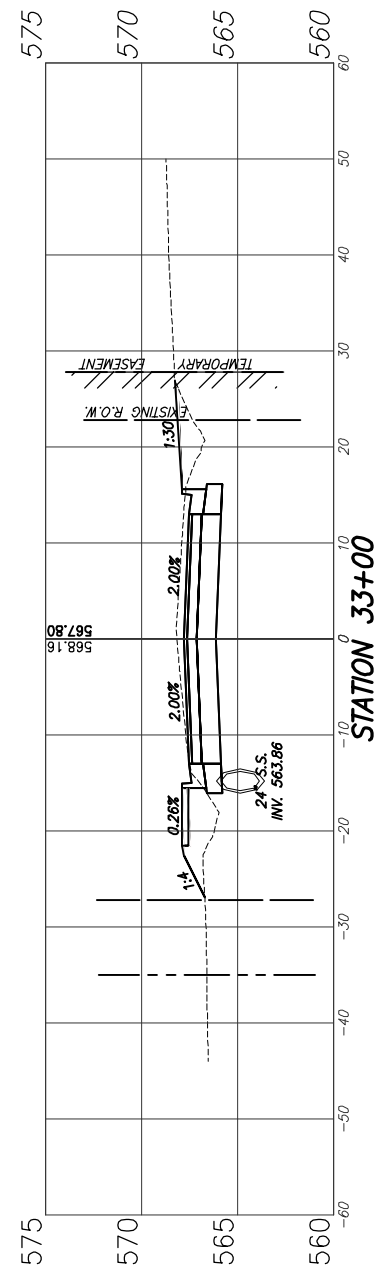
CUT = 61.1 S.F.
FILL = 31.6 S.F.



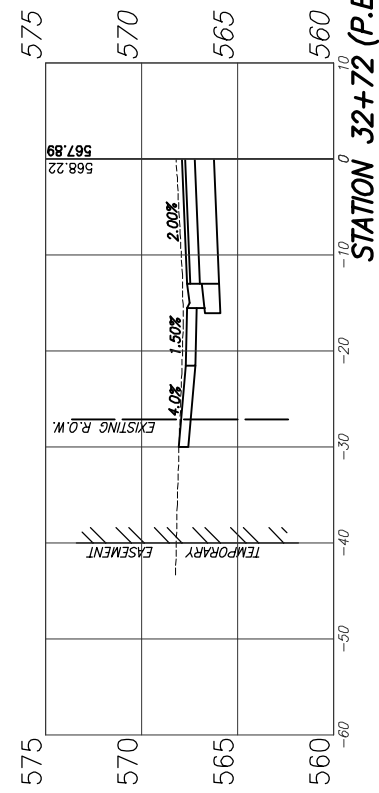
CUT = 58.4 S.F.
FILL = 24.1 S.F.



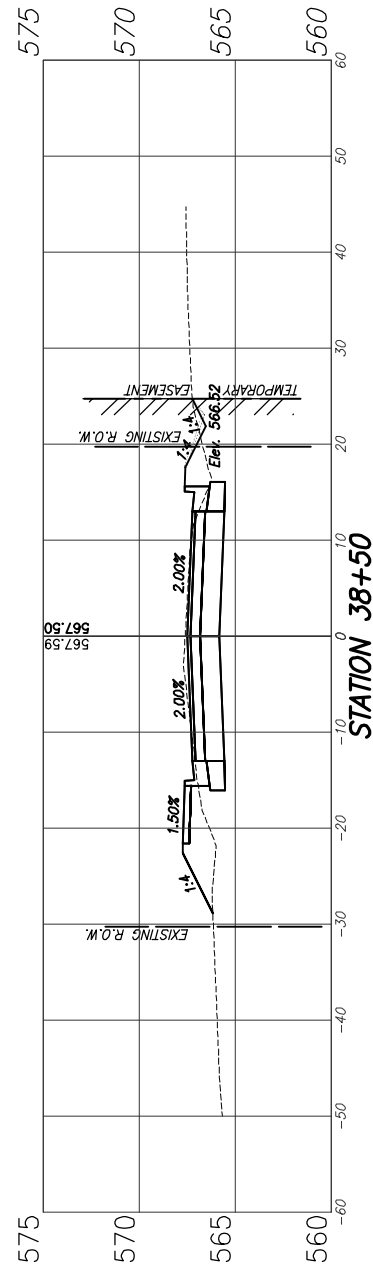
CUT = 54.8 S.F.
FILL = 23.3 S.F.



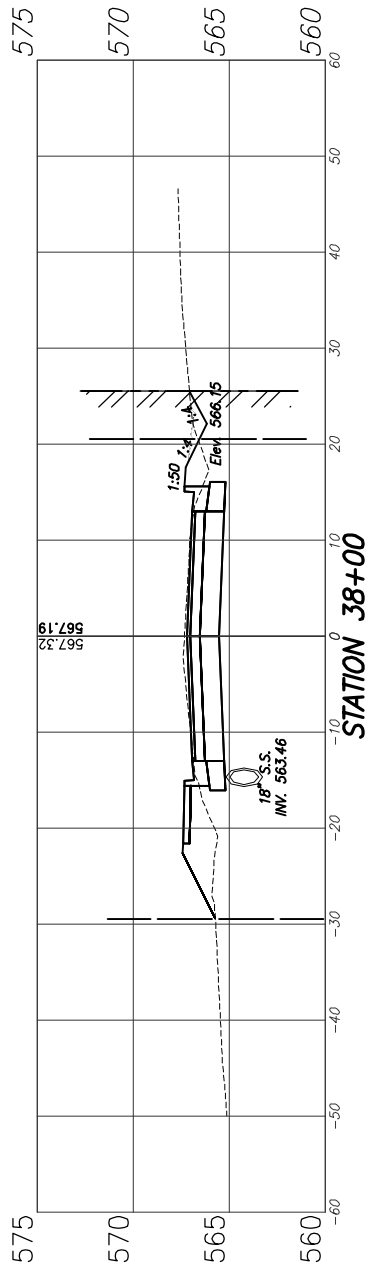
CUT = 53.2 S.F.
FILL = 18.6 S.F.



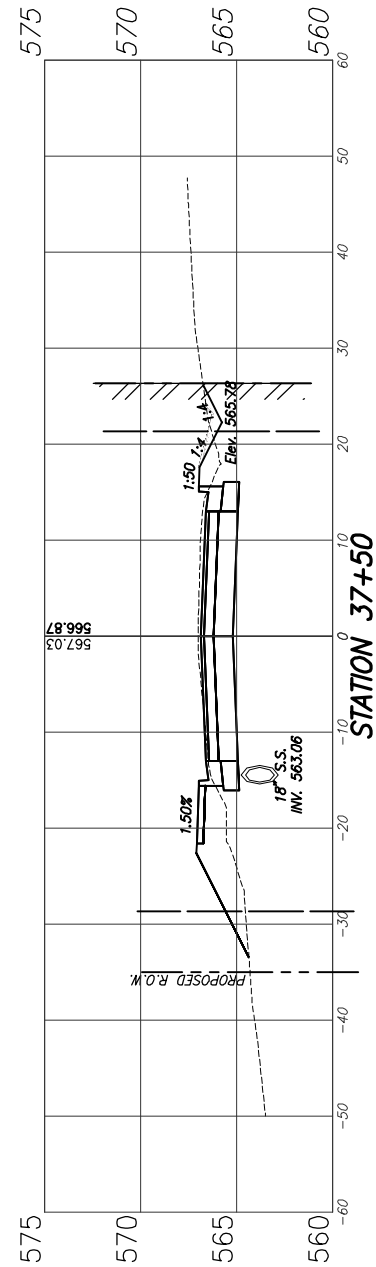
| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 39 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



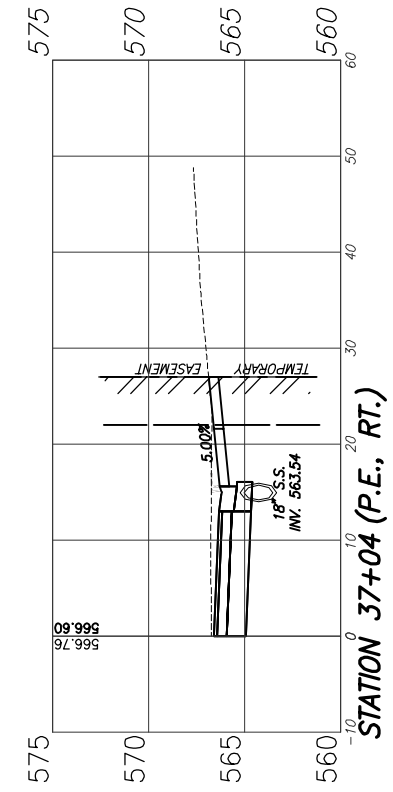
CUT = 45.3 S.F.
FILL = 15.9 S.F.



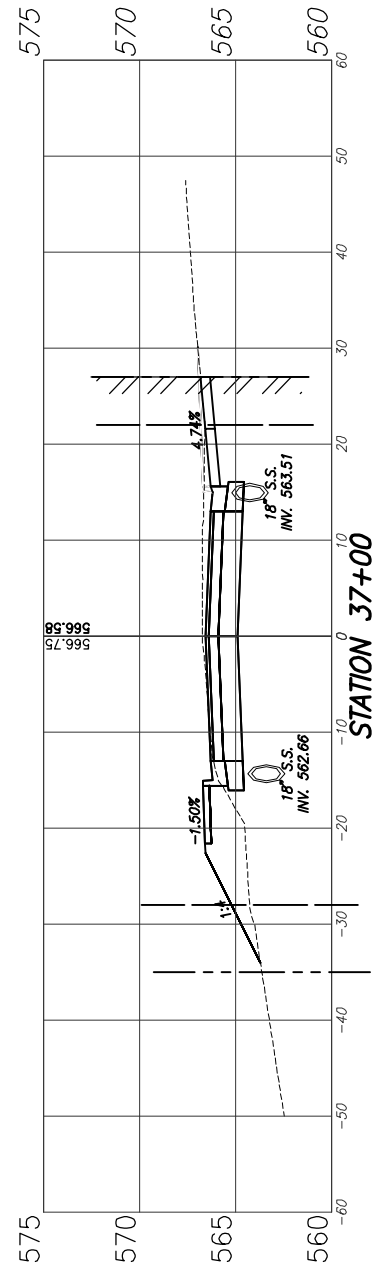
CUT = 49.0 S.F.
FILL = 16.5 S.F.



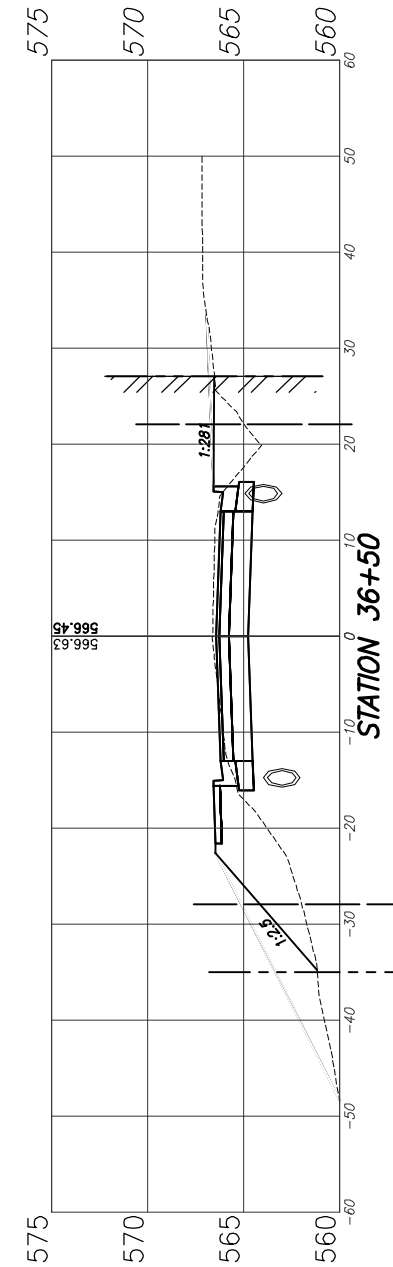
CUT = 50.6 S.F.
FILL = 23.0 S.F.



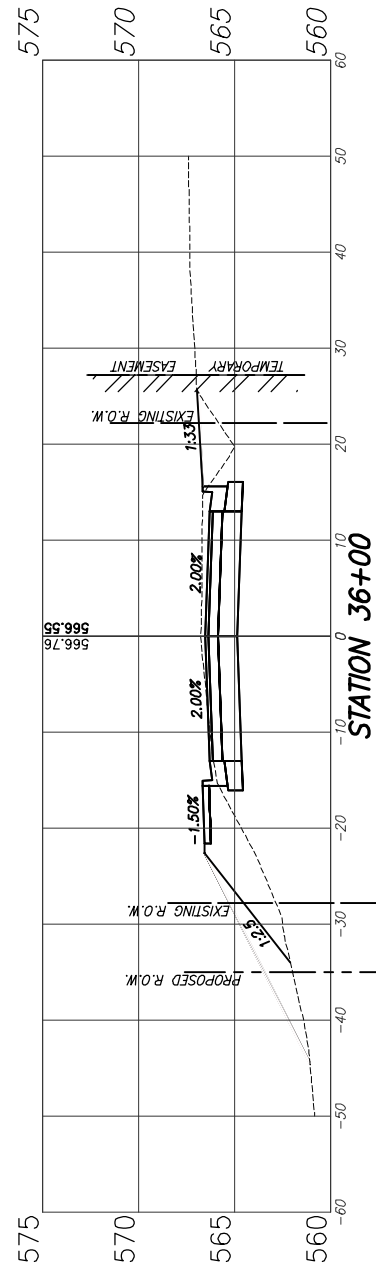
CUT = 54.4 S.F.
FILL = 21.9 S.F.



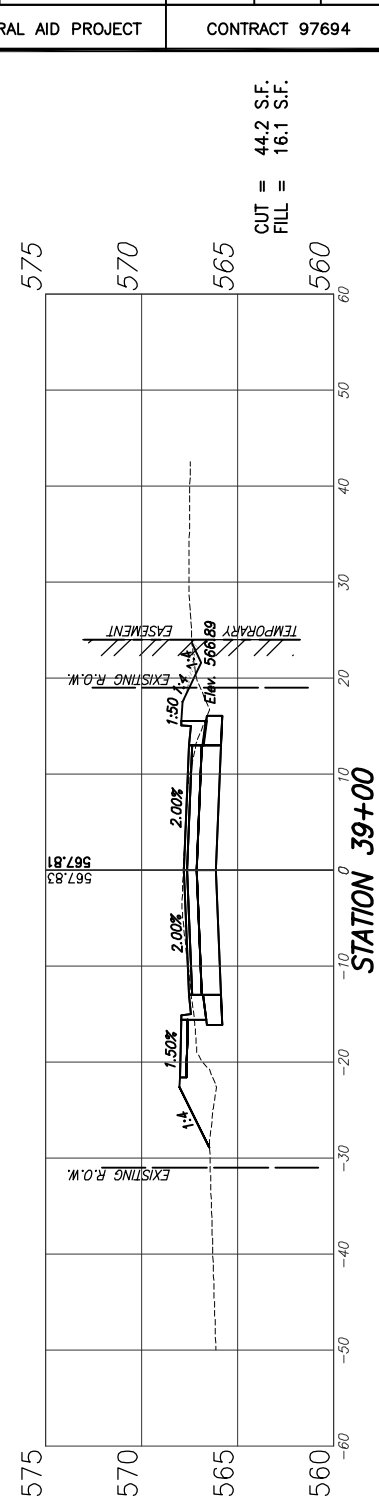
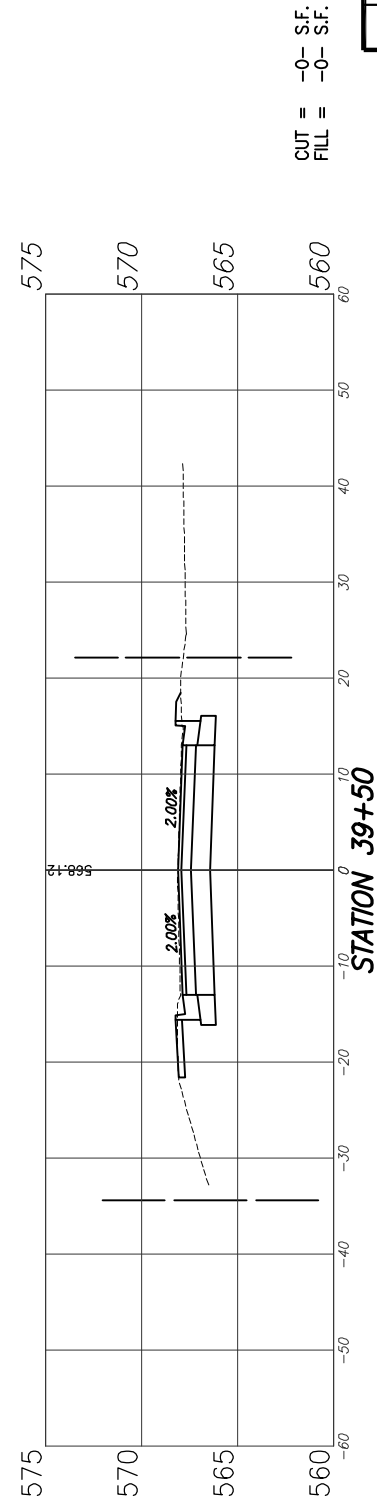
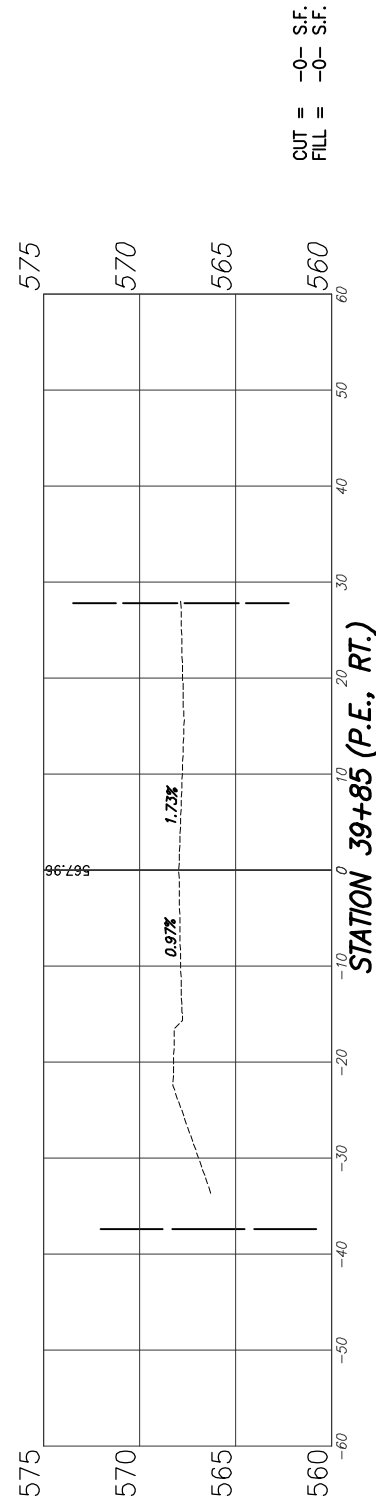
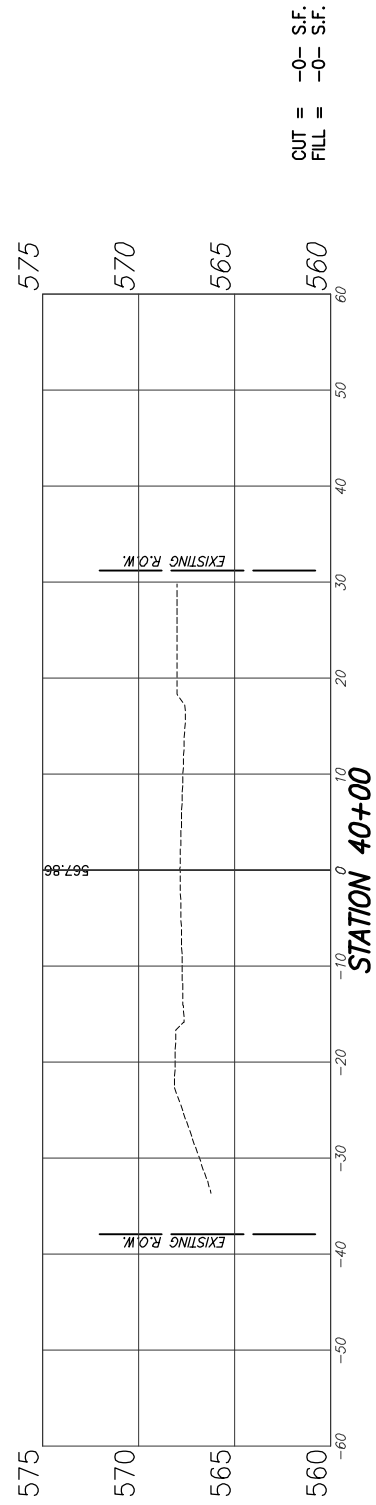
CUT = 47.2 S.F.
FILL = 54.6 S.F.



CUT = 50.7 S.F.
FILL = 36.2 S.F.



| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|-----------|----------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 40 |
| FEDERAL AID PROJECT | | | CONTRACT 97694 | |



| F.A.U. ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|---------------------|----------------|----------------|--------------|--------------|
| 9170 | 15-00053-01-PV | ST. CLAIR | 41 | 41 |
| FEDERAL AID PROJECT | | CONTRACT 97694 | | |

