

08-02-13 LETTING ITEM 108

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
N/A	10-00041-00-BT	RANDOLPH	24	1
STA		TO	STA.	
FEDERAL AID PROJECT			CONTRACT 97532	

PLANS FOR PROPOSED SURFACE TRANSPORTATION/ENHANCEMENT PROGRAM 4TH STREET BIKE TRAIL CONNECTOR SECTION 10-00041-00-BT PROJECT NO. TE-00D8 (168) CITY OF RED BUD, ILLINOIS RANDOLPH COUNTY JOB NO. C-98-317-11

INDEX OF SHEETS

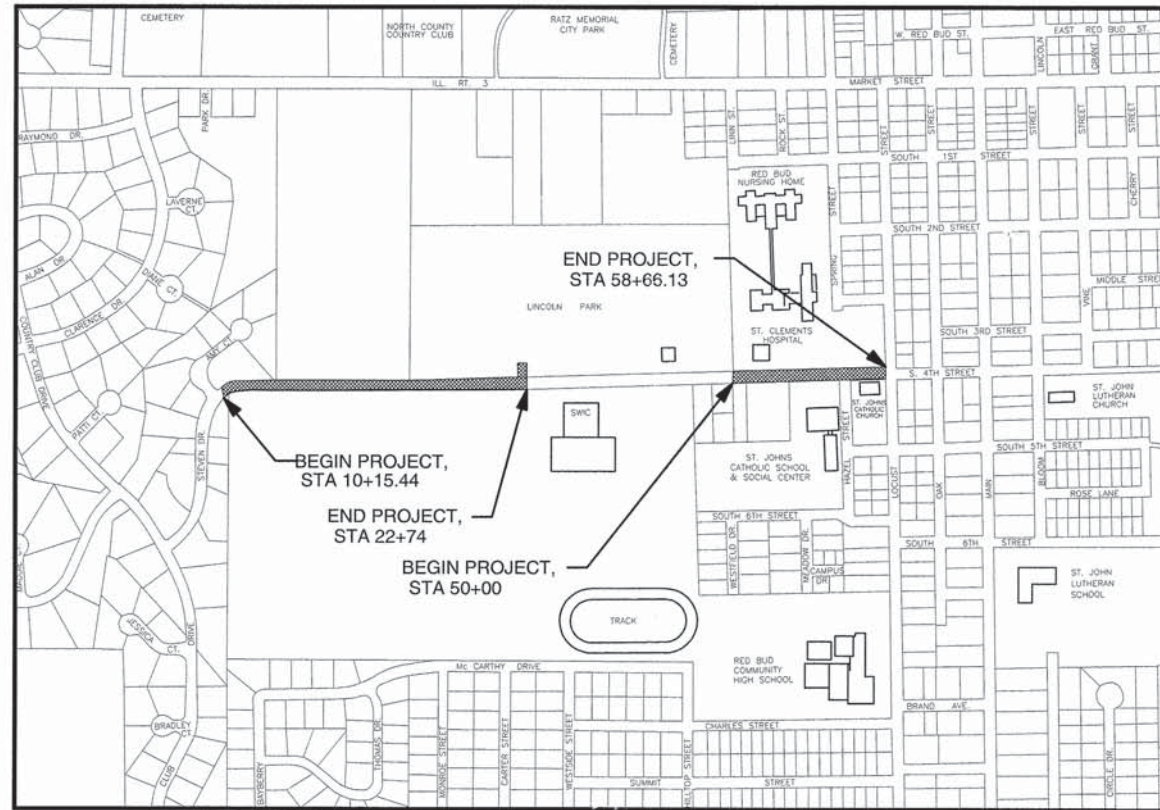
1. COVER SHEET
2. GENERAL NOTES, SUMMARY OF QUANTITIES, AND HIGHWAY STANDARDS
3. TYPICAL SECTIONS
4. CONSTRUCTION SCHEDULES
- 5.-8. PLAN AND PROFILE
- 9.-10. EROSION CONTROL PLAN
- 11.-12. PAVEMENT MARKING & SIGNING PLAN
- 13.-14. REMOVAL PLAN
- 15.-17. UTILITY PLAN
18. FENCE DETAILS
19. MISCELLANEOUS DETAILS
- 20.-24. CROSS SECTIONS

SCALES:

PLAN	0 20 40
PROFILE HORIZ.	0 20 40
PROFILE VERT.	0 5 10
CROSS SECTION HORIZ.	0 10 20
CROSS SECTION VERT.	0 5 10

DESIGN DESIGNATION

CLASSIFICATION = SHARED-USE PATH
DESIGN SPEED = 20 MPH



LOCATION MAP
NOT TO SCALE

LENGTH OF WEST BIKE TRAIL = 1,258.56 FEET (0.238 MILES)
LENGTH OF EAST BIKE TRAIL = 866.13 FEET (0.164 MILES)
TOTAL LENGTH OF PROJECT = 2,124.69 FEET (0.401 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	<i>June 10, 2013</i> DATE
	<i>[Signature]</i> MAYOR, CITY OF RED BUD
PASSED	<i>June 14, 2013</i> DATE
	<i>[Signature]</i> DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>June 14, 2013</i> DATE
	<i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION FIVE ENGINEER
PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS	



Christopher A. Smith
Christopher A. Smith
6/10/2013
Date of Signing
11/30/2013
Date of License Expiration



PREPARED BY:
RHUTASEL and ASSOCIATES, INC.
CONSULTING ENGINEERS • LAND SURVEYORS
CORPORATE OFFICE: 4 INDUSTRIAL DRIVE, FREEBURG, ILLINOIS 62243 (618) 538-3178
REGIONAL OFFICE: 201 SOUTH LOCUST STREET, CENTRALIA, ILLINOIS 62801 (618) 532-1992

SHEETS 1 TO 14, 18 TO 24

SUMMARY OF QUANTITIES

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
	10-00041-00-BT	RANDOLPH	24	2
STA 10+22.52 TO		STA. 58+16.33		
FEDERAL AID PROJECT			CONTRACT 97532	

CODE NO.	ITEM	UNIT	ROADWAY QUANTITY	LIGHTING QUANTITY	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	451		451
20400800	FURNISHED EXCAVATION	CU YD	275		275
20800150	TRENCH BACKFILL	CU YD	20		20
25000100	SEEDING, CLASS 1	ACRE	0.6		0.6
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	54		54
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	54		54
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	54		54
25100115	MULCH, METHOD 2	ACRE	0.6		0.6
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	484		484
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	60		60
28000305	TEMPORARY DITCH CHECKS	FOOT	84		84
28000400	PERIMETER EROSION BARRIER	FOOT	1,408		1,408
28000500	INLET AND PIPE PROTECTION	EACH	5		5
28100105	STONE RIPRAP, CLASS A3	SQ YD	20		20
28200200	FILTER FABRIC	SQ YD	20		20
35100500	AGGREGATE BASE COURSE, TYPE A, 6"	SQ YD	2,487		2,487
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	850		850
40600300	AGGREGATE (PRIME COAT)	TON	6		6
40603305	HOT MIX ASPHALT, SURFACE COURSE, MIX C, N30	TON	380		380
42400100	PORTLAND CEMENT CONCRETE SIDEWALK, 4"	SQ FT	382		382
42400800	DETECTABLE WARNINGS	SQ FT	62		62
44000500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	FOOT	114		114
44000600	SIDEWALK REMOVAL	SQ FT	343		343
50105220	PIPE CULVERT REMOVAL REMOVAL	FOOT	13		13
54200217	PIPE CULVERTS, CLASS D, TYPE 1, 12"	FOOT	46		46
54200220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	139		139
54200229	PIPE CULVERTS, CLASS D, TYPE 1, 24"	FOOT	29		29
54215547	METAL END SECTIONS, 12"	EACH	3		3
54215550	METAL END SECTIONS, 15"	EACH	3		3
54215559	METAL END SECTIONS, 24"	EACH	1		1
58500100	DOMESTIC WATER METER TO BE MOVED	EACH	1		1
60221100	MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME AND CLOSED LID	EACH	1		1
60237000	INLETS, TYPE A, TYPE 15 FRAME AND LID	EACH	1		1
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18	FOOT	117		117
67100100	MOBILIZATION	L SUM	1		1
72000100	SIGN PANEL -- TYPE 1	SQ FT	29		29
73000100	WOOD SIGN SUPPORT	FOOT	123		123
* 78001130	PAINT PAVEMENT MARKING -- LINE 6"	FOOT	160		160
* 78001150	PAINT PAVEMENT MARKING -- LINE 12"	FOOT	37		37
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH		4	4
* 81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIAMETER	FOOT		3328	3328
* 81500100	GULFBOX JUNCTION	EACH		5	5
* 81702110	ELECTRIC CABLE IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C No. 10	FOOT		10227	10227
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1		1
XX000882	WOOD FENCE	FOOT	30		30
XX007309	BOLLARDS, QUICK RELEASE	EACH	3		3
* XX007468	PEDESTRIAN STREET LIGHT	EACH		27	27
Z0004002	BOLLARDS	EACH	6		6
Z0064560	SEGMENTAL BLOCK RETAINING WALL	SQ FT	89		89

* SPECIALTY ITEM

GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012.

ALL AREAS DISTURBED FOR ANY REASON WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 1 SEEDING. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS AND FACE OF CURB.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

"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 IN COLOR, 48".

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.

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.

THE REMOVAL OF ANY GUTTER SHALL ALSO INCLUDE THE DISCONNECTION OF THE EXISTING GUTTER FROM ANY REINFORCEMENT OR COLLATERAL MATERIAL THAT MAY BE PRESENTLY ATTACHED. THERE SHALL NOT BE ANY ADDITIONAL REMUNERATION BUT THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM.

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.

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.

STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE SILT PANELS, ROLLED EXCELSIOR, SILT WEDGES OR ANY OTHER APPROVED MATERIAL BY THE ENGINEER.

ALL CLASS D PIPE CULVERTS SHALL BE HDPE.

FACTORS USED FOR QUANTITY CALCULATIONS ARE AS FOLLOWS:

PAVING	
ALL HOT-MIX ASPHALT	0.056 TONS/SQ.YD./INCH
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ.YD.
BITUMINOUS MATERIALS (PRIME COAT)	0.075 GAL./SQ.YD. (PAVED SURFACE)
	0.35 GAL./SQ.YD. (AGG. SURFACE)

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

SAW-CUTTING SHALL BE CONSIDERED INCIDENTAL TO THE REMOVAL ITEM INVOLVED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE FIRE DEPARTMENT AND POLICE DEPARTMENT OF THE CITY OF RED BUD ANY TIME NORMAL TRAFFIC FLOW ON ANY STREET OR ROAD IS TO BE INTERRUPTED, HOWEVER BRIEFLY.

CITY OF RED BUD POLICE DEPARTMENT, 618-282-2363 (NON-EMERGENCY)
CITY OF RED BUD FIRE DEPARTMENT, 618-282-2331 (NON-EMERGENCY)

APPLICABLE IDOT HIGHWAY STANDARDS:

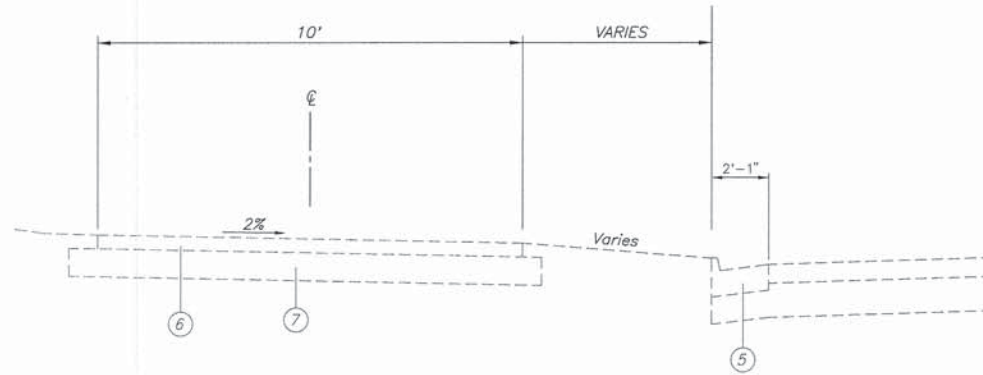
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- 542306-02
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- 602401-03
- 604001-03
- 606001-05
- 701801-05
- 701901-02
- 720001-01
- 720006-03
- 780001-03

UTILITY TYPE	NAME OF UTILITY	PHONE NUMBER	CONTACT NAME
ELECTRIC	CITY OF RED BUD	618-282-3339	LOUIE DEWALD
GAS	CITY OF RED BUD	618-282-3339	LOUIE DEWALD
WATER	CITY OF RED BUD	618-282-3339	LOUIE DEWALD
SEWER	CITY OF RED BUD	618-282-3339	LOUIE DEWALD
CABLE	MEDIACOM	270-703-9653	TONY RUSSO
TELEPHONE	HARRISONVILLE TELEPHONE CO.	618-939-9256	TOM SCHRIEBER

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT		RANDOLPH	24	3
STA 10+22.52 TO		STA. 58+16.33		
FEDERAL AID PROJECT		CONTRACT 97532		

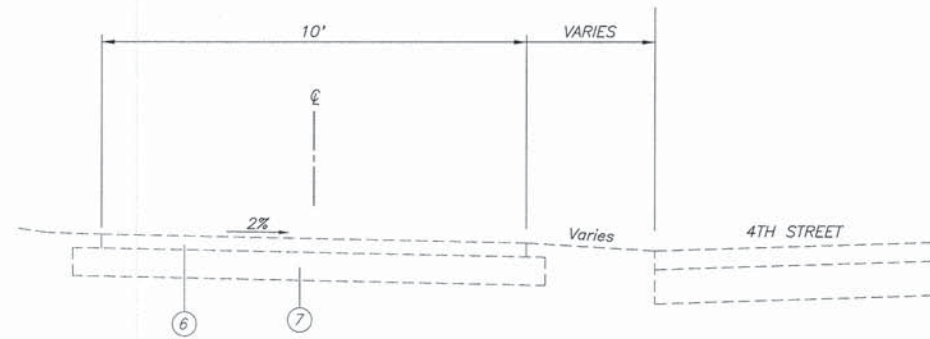
LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30, 3"
- ② BITUMINOUS MATERIALS (PRIME COAT)
- ③ AGGREGATE BASE COURSE, TYPE A, 6"
- ④ TURF SHOULDERS
- ⑤ EXISTING CONCRETE CURB AND GUTTER
- ⑥ EXISTING HMA SURFACE
- ⑦ EXISTING AGGREGATE BASE



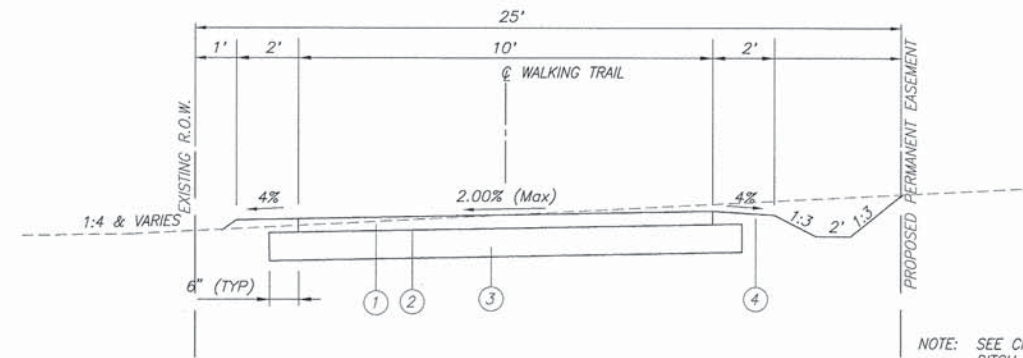
EXISTING TYPICAL SECTION

N.T.S.
ADJACENT TO LINCOLN PARK



EXISTING TYPICAL SECTION

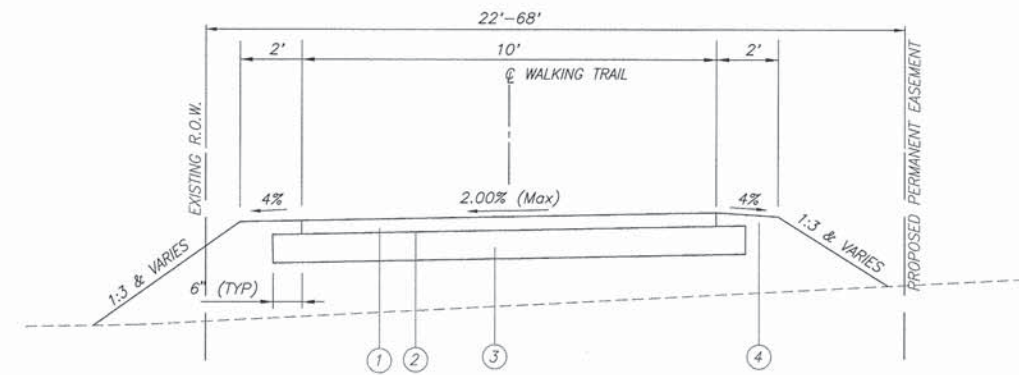
N.T.S.
AT TERMINI OF 4TH STREET



TYPICAL SECTION 2% LEFT

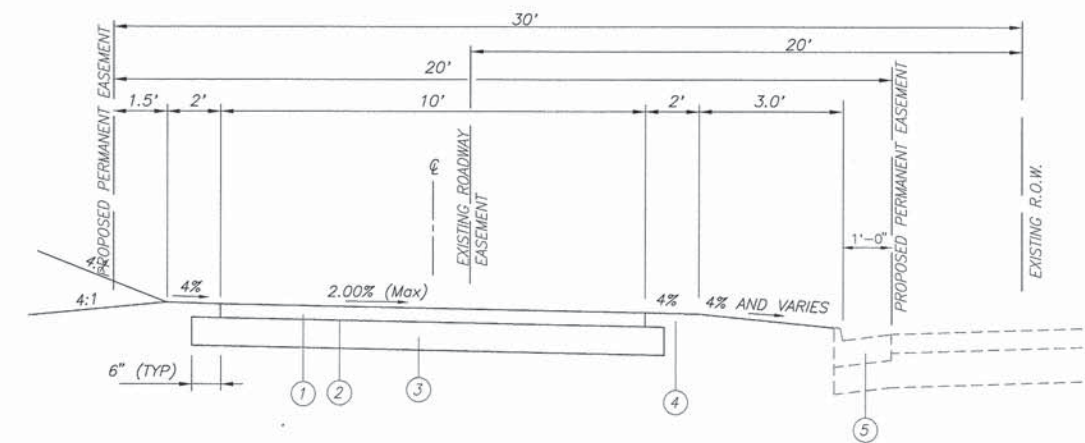
N.T.S.
STA. 11+69.60 TO STA. 22+74

NOTE: SEE CROSS SECTIONS FOR DITCH LOCATIONS AND DEPTHS



TYPICAL SECTION 2% LEFT

N.T.S.
STA. 10+21.60 TO STA. 11+69.60



TYPICAL SECTION 2% RIGHT

N.T.S.
STA. 50+00.00 TO STA. 58+66.13

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
	10-00041-00-BT	RANDOLPH	24	4
STA 10+22.52 TO		STA. 58+16.33		
FEDERAL AID PROJECT		CONTRACT 97532		

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD	CU YD
10+15.00 TO 22+51.0	225.5	169.1	580.1	- 411.0	411.0
50+00.00 TO 58+51.0	225.9	169.4	35.8	+ 133.6	277.4
TOTAL	451.4	338.5	615.5	- 275	275

PAVING SCHEDULE

STATION	AGGREGATE BASE COURSE, TYPE A, 6"	BITUMINOUS MATERIALS PRIME COAT	AGGREGATE PRIME COAT	HOT-MIX ASPHALT SURFACE COURSE MIX C, N 30
	SQ YD	GALLON	TON	TON
10+15.00 TO 22+51.0	1546	528	3.7	236
50+00.00 TO 58+51.0	941	322	2.3	144
54+45				
TOTAL	2487	850	6	380

EROSION CONTROL SCHEDULE

STATION	HEAVY DUTY EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECK	INLET AND PIPE PROTECTION	STONE RIPRAP CLASS A3	FILTER FABRIC
	SQ YD	FOOT	FOOT	EACH	SQ YD	SQ YD
10+15.00 TO 22+51.0	484	1268	84	5	20	20
50+00.00 TO 58+51.0	---	140	---	---	---	---
TOTAL	484	1408	84	5	20	20

SEEDING SCHEDULE

STATION	SEEDING CLASS 1	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH METHOD 2	TEMPORARY EROSION CONTROL SEEDING
	ACRE	POUND	POUND	POUND	ACRE	POUND
10+15.00 TO 22+51.0	0.43	39	39	39	0.43	43
50+00.00 TO 58+51.0	0.17	15	15	15	0.17	17
TOTAL	0.60	54	54	54	0.60	60

PAVEMENT MARKING SCHEDULE

LOCATION	TYPE	PAINT PAVEMENT MARKINGS	
		6" WHITE	12" WHITE
		FOOT	FOOT
LOCUST STREET			
NORTH	CROSS WALK STOP BAR	74	17
WEST	CROSS WALK STOP BAR	86	20
TOTAL		160	37

BOLLARD SCHEDULE

STATION	OFFSET	BOLLARD	BOLLARD QUICK RELEASE
		EACH	EACH
10+18	7' LT	1	0
10+25	7' LT	0	1
10+32	7' LT	0	1
22+66	6	0	1
22+66	7' LT/RT	2	0
58+50	6	0	1
58+50	7' LT/RT	2	0
TOTAL		6	3

PCC SIDEWALK SCHEDULE

LOCATION	P.C.C. SIDEWALK, 4"	DETECTABLE WARNINGS
	SQ FT	SQ FT
STA. 10+15 TO 10+25 LT.	74	20
STA. 55+96 LT.	20	---
LOCUST / 4TH STREET		
N.W. QUADRANT	132	17
N.E. QUADRANT	75	12
S.W. QUADRANT	81	13
TOTAL	382	62

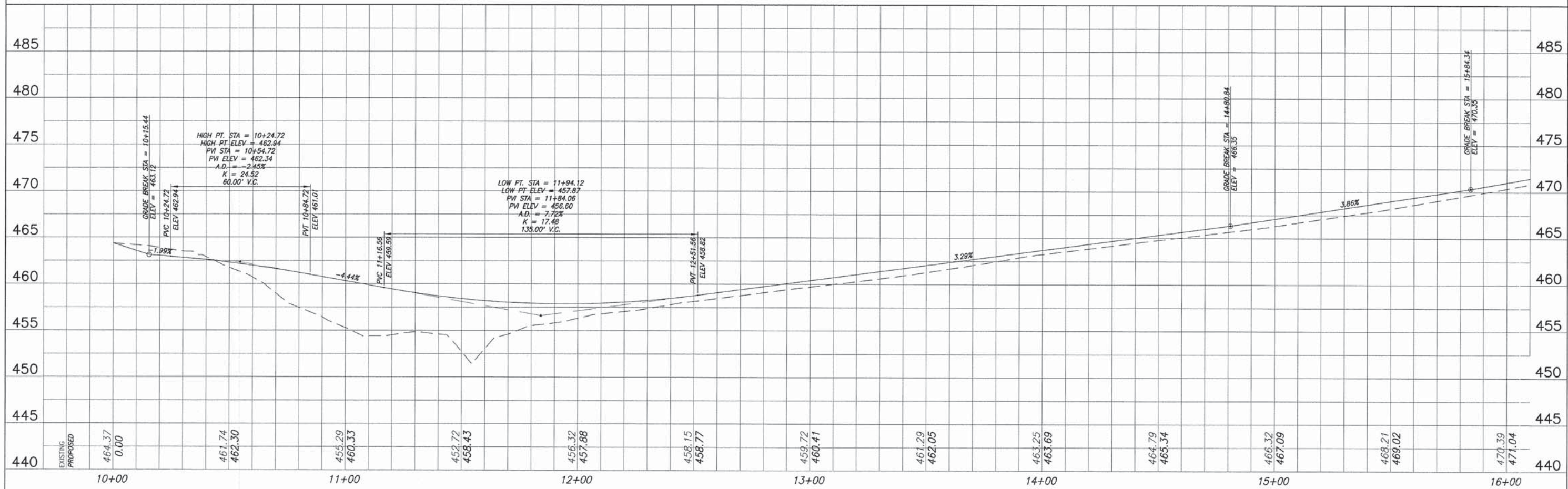
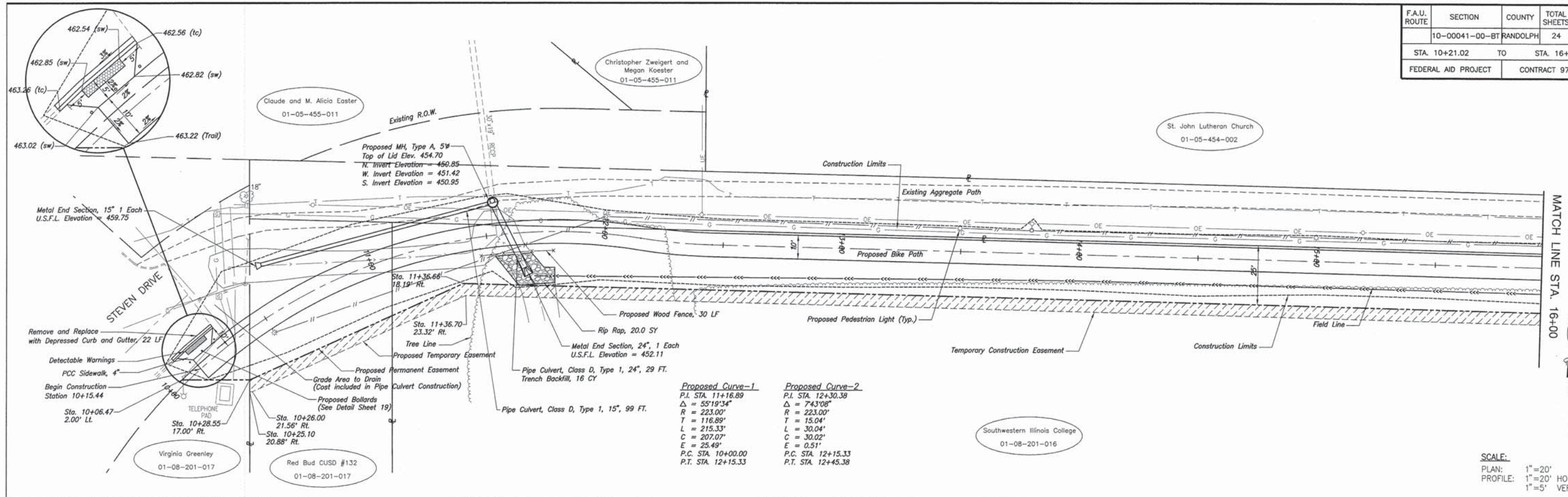
CURB AND GUTTER SCHEDULE

LOCATION	C & G TYPE B6.18
	FOOT
STEVEN DRIVE	22
STA. 22+42 TO 22+62 LT.	5
STA. 54+30	13
STA. 54+59	24
LOCUST / 4TH STREET	
N.W. QUADRANT	22
N.E. QUADRANT	19
S.W. QUADRANT	22
TOTAL	127

SIGNING SCHEDULE

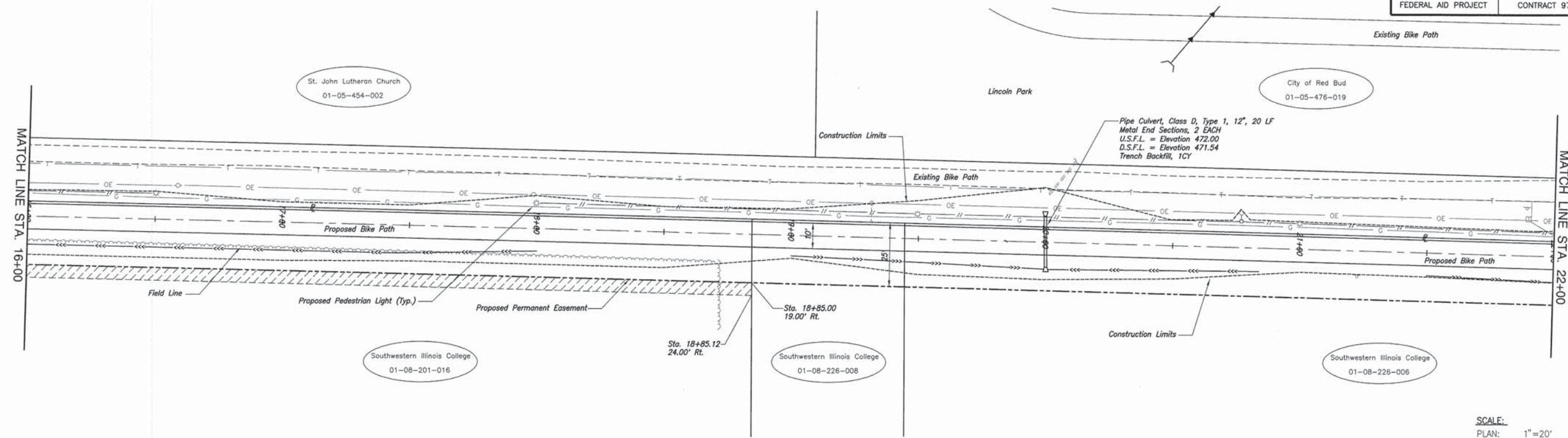
STATION	OFFSET	DESCRIPTION	SIGN PANEL TYPE 1	WOOD SIGN SUPPORT
			SQ FT	FOOT
18+50	9' LT	W7-5	2.25	11.0
22+45	10' LT	R1-2	2.25	11.0
22+62	9' LT	R5-3	4.00	11.0
53+50	9' RT	R1-1	2.25	11.0
53+78	9' LT	R1-1	2.25	11.0
54+26	9' RT	R1-1	2.25	11.0
54+60	9' LT	R1-1	2.25	11.0
55+18	9' LT	W7-5	2.25	11.0
55+18	9' RT	R1-1	2.25	11.0
55+47	9' LT	R1-1	2.25	11.0
58+40	9' RT	R5-3	4.00	11.0
TOTAL			28.25	123

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT RANDOLPH			24	5
STA. 10+21.02 TO STA. 16+00.00		FEDERAL AID PROJECT CONTRACT 97532		

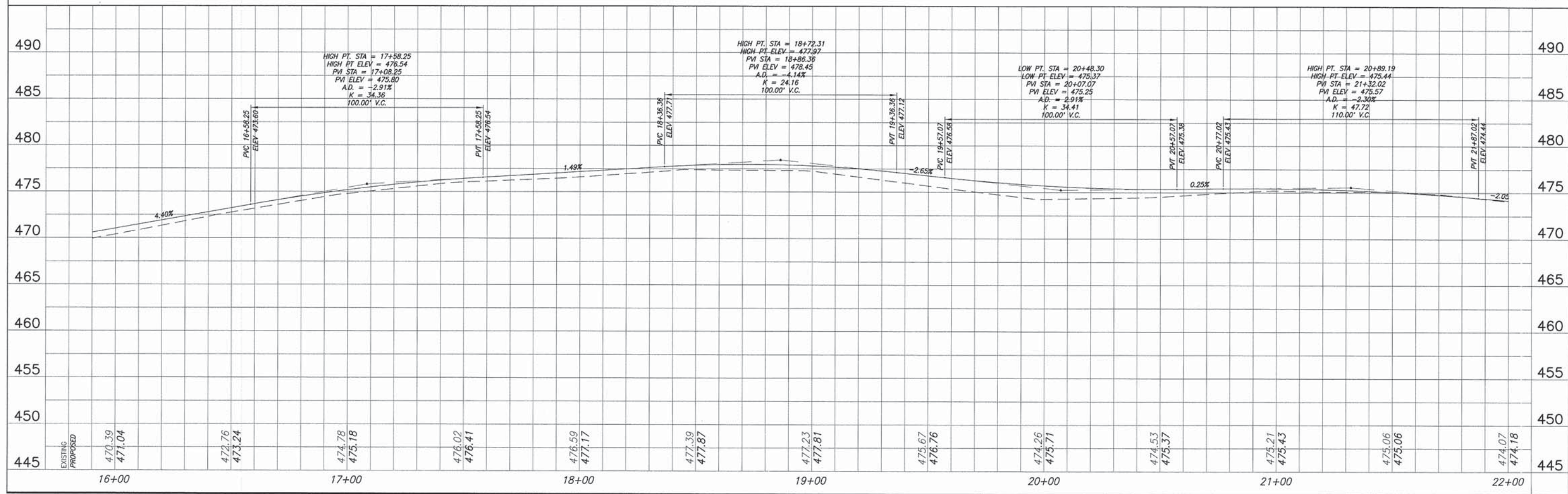


PLAN AND PROFILE 4TH STREET BIKE TRAIL CONNECTOR
SECTION 10-00041-00-BT RANDOLPH COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT	RANDOLPH		24	6
STA. 16+00.00 TO STA. 22+00.00				
FEDERAL AID PROJECT			CONTRACT 97532	

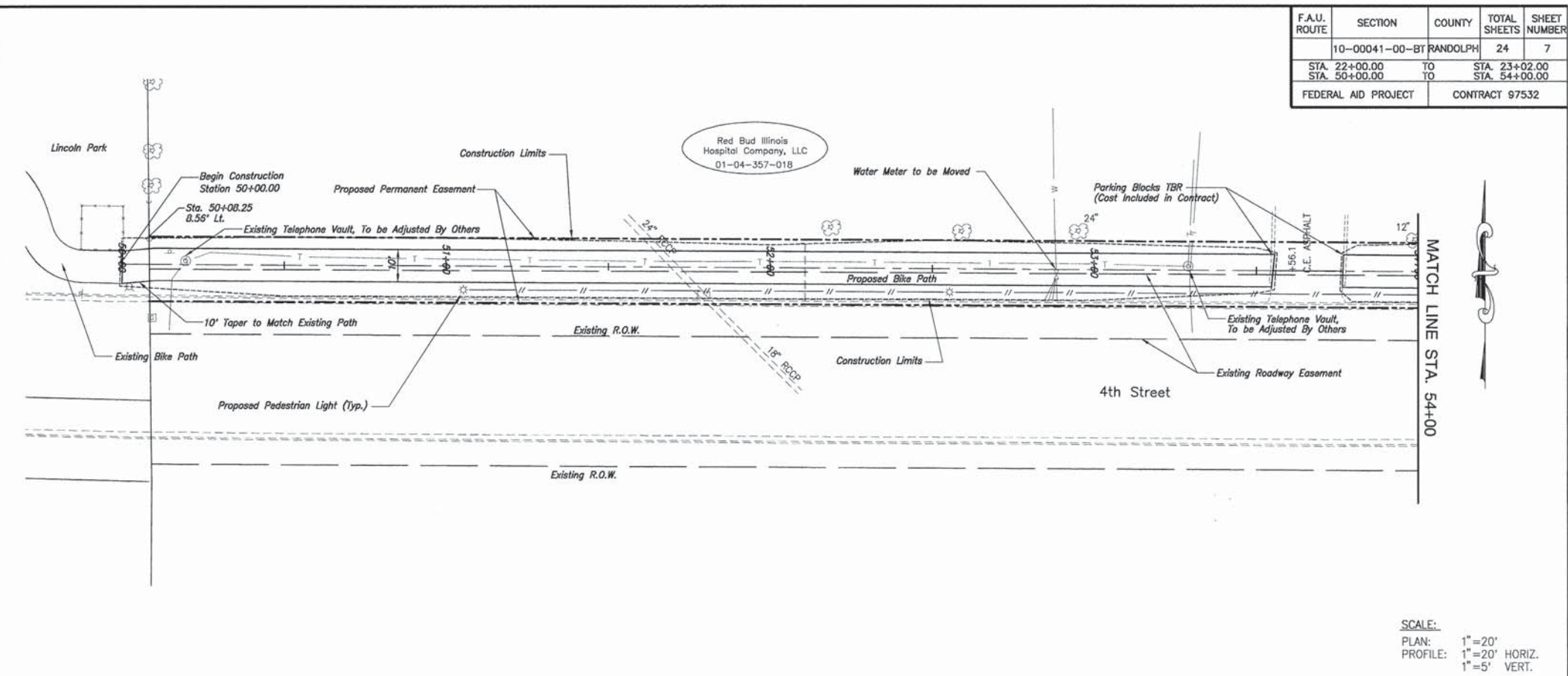
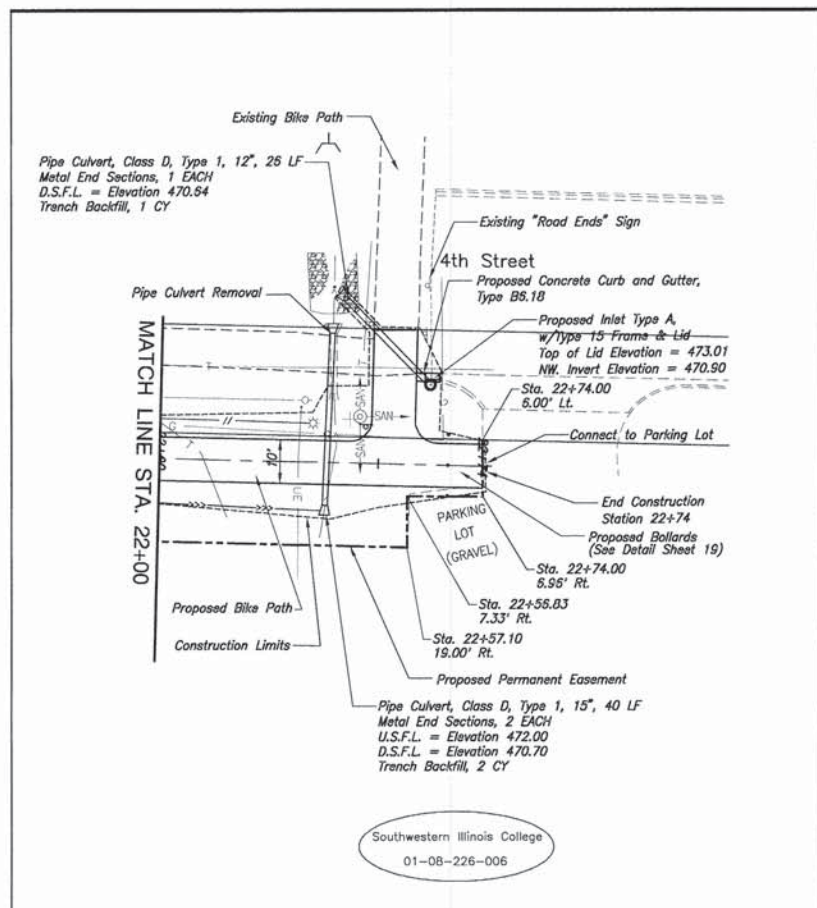


SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.

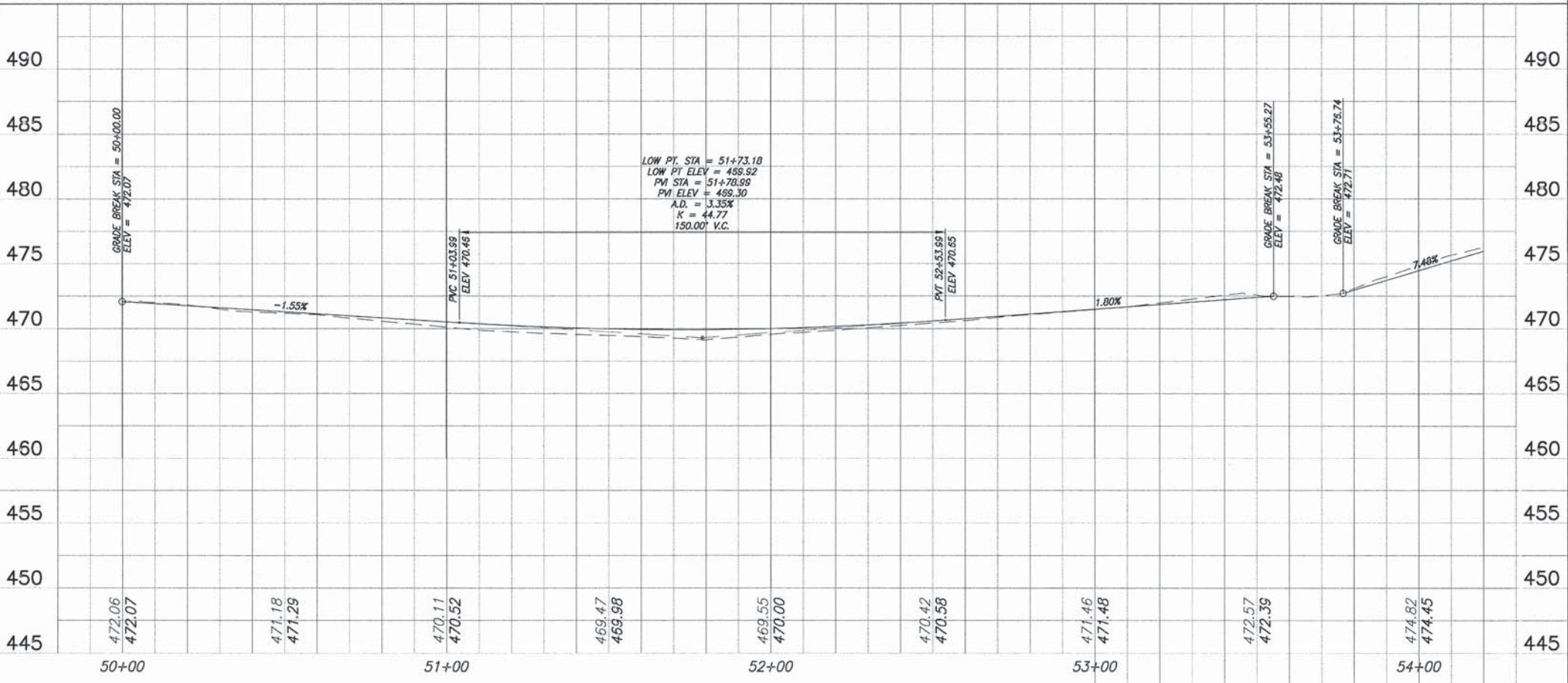
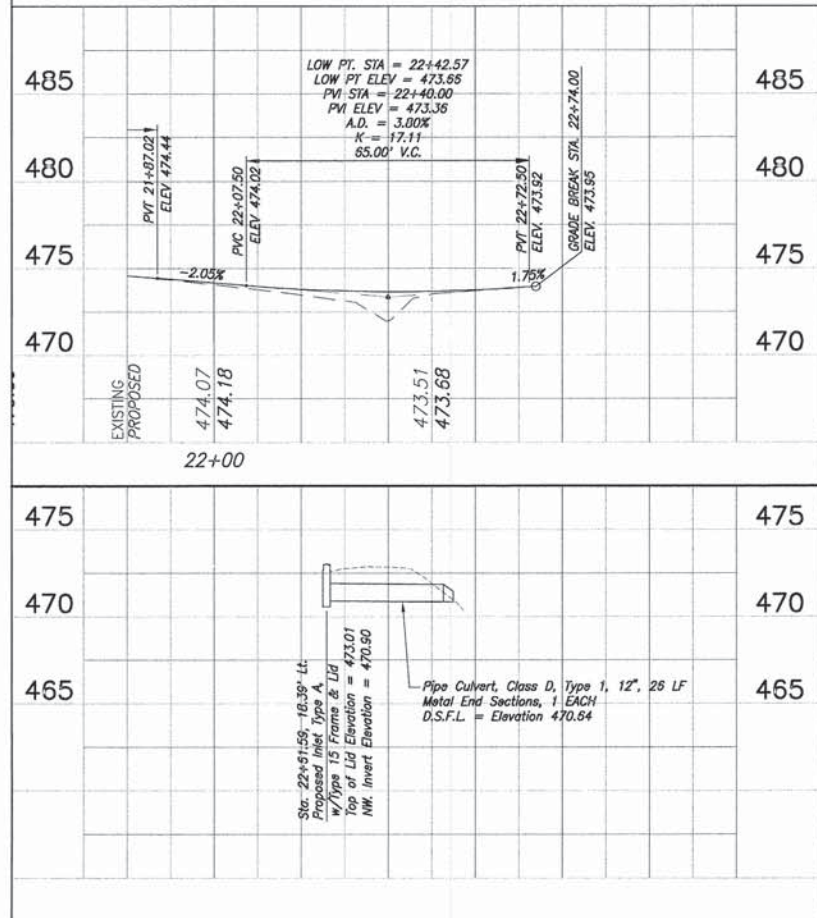


PLAN AND PROFILE 4TH STREET BIKE TRAIL CONNECTOR SECTION 10-00041-00-BT RANDOLPH COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT	RANDOLPH		24	7
STA. 22+00.00	TO	STA. 23+02.00		
STA. 50+00.00	TO	STA. 54+00.00		
FEDERAL AID PROJECT		CONTRACT 97532		

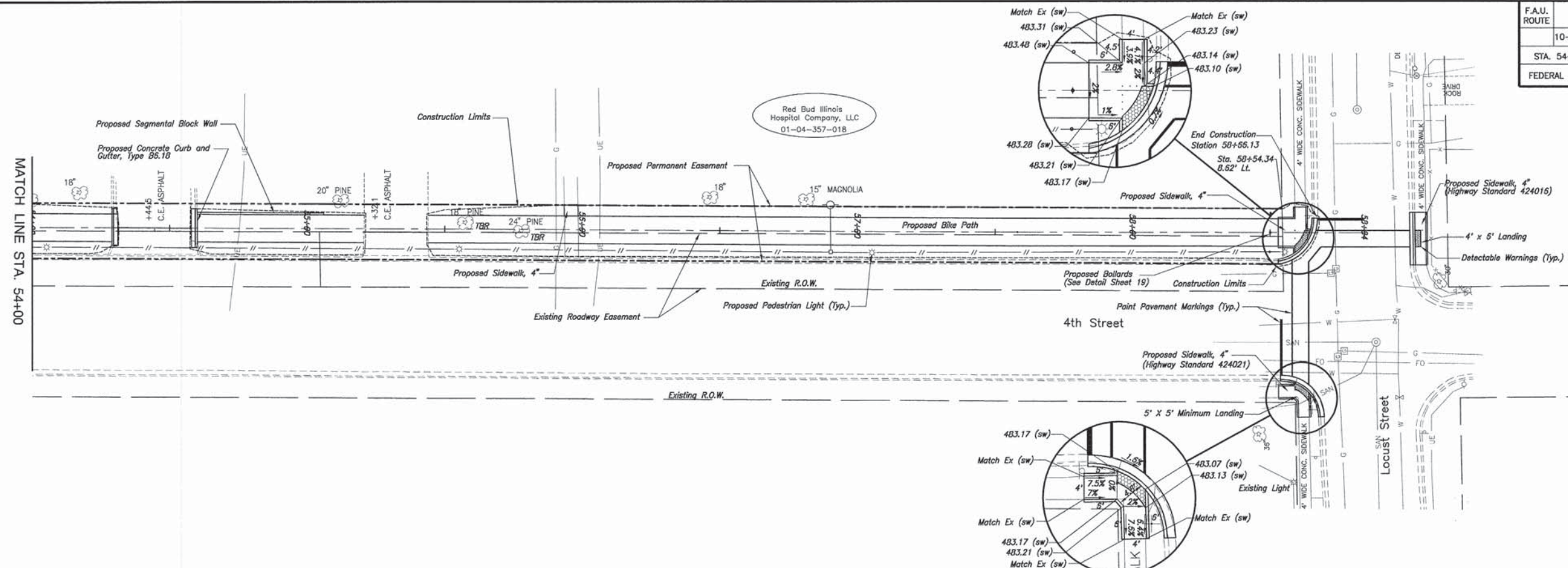


SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.

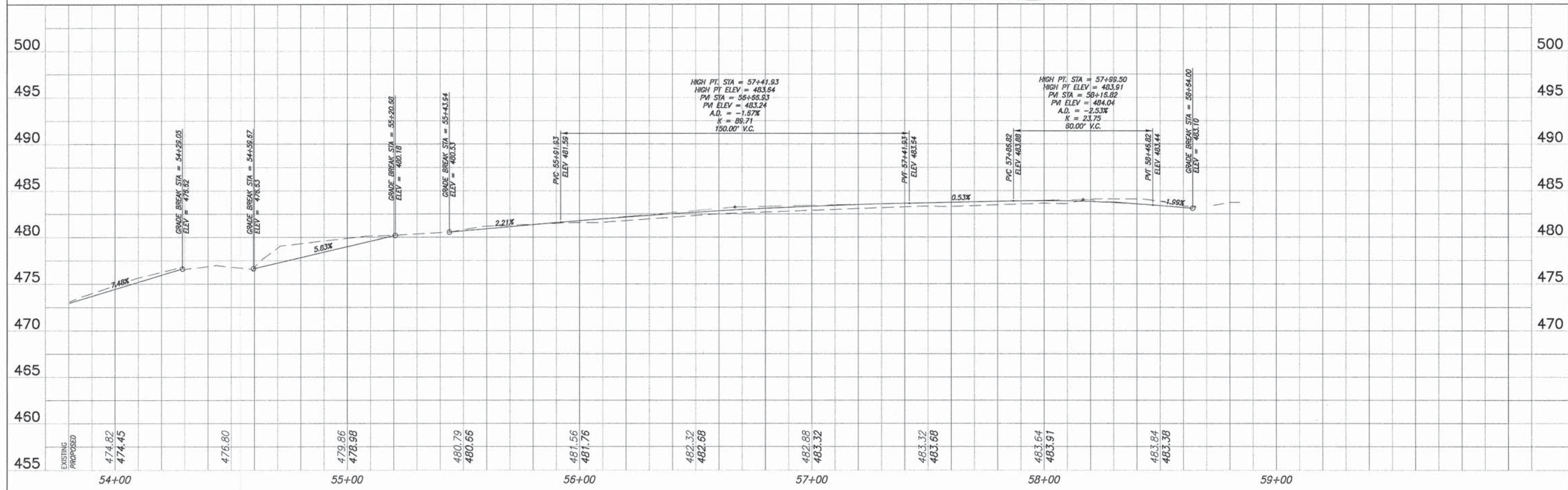


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 SECTION 10-00041-00-BT RANDOLPH COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT RANDOLPH			24	8
STA. 54+00.00 TO STA. 58+84.00				
FEDERAL AID PROJECT		CONTRACT 97532		



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

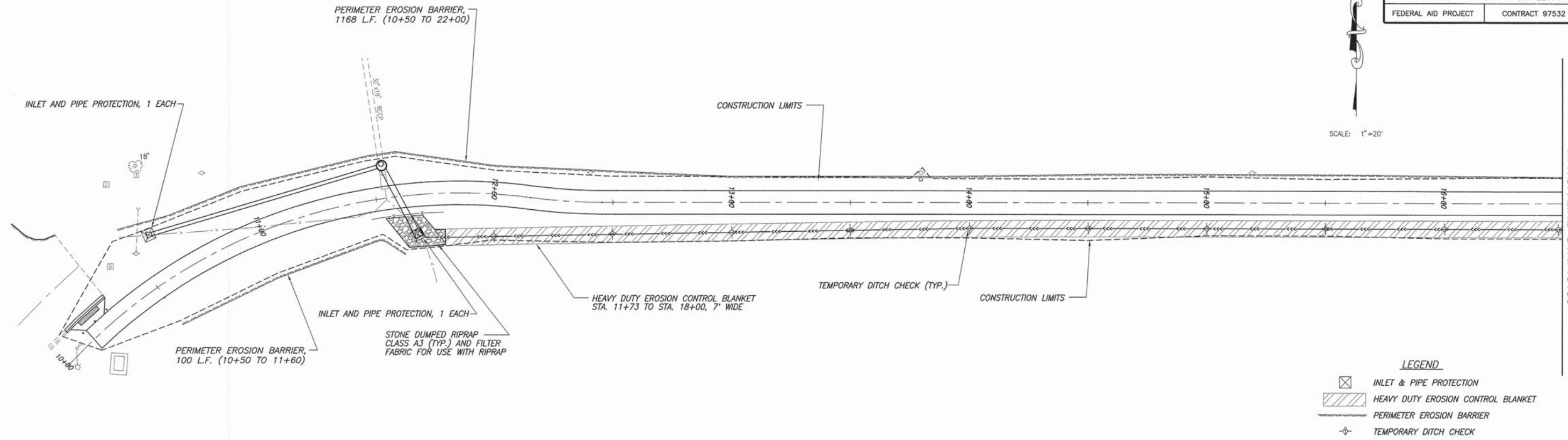


PLAN AND PROFILE 4TH STREET BIKE TRAIL CONNECTOR
 SECTION 10-00041-00-BT RANDOLPH COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT	RANDOLPH		25	9
STA. 10+00 TO STA. 22+74		FEDERAL AID PROJECT CONTRACT 97532		

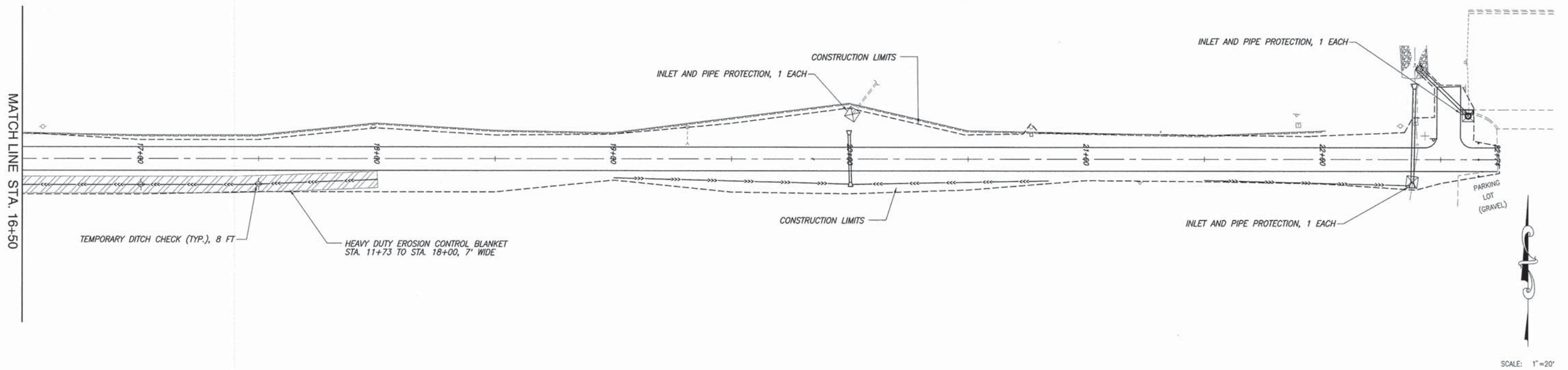
SCALE: 1"=20'

MATCH LINE STA. 16+50



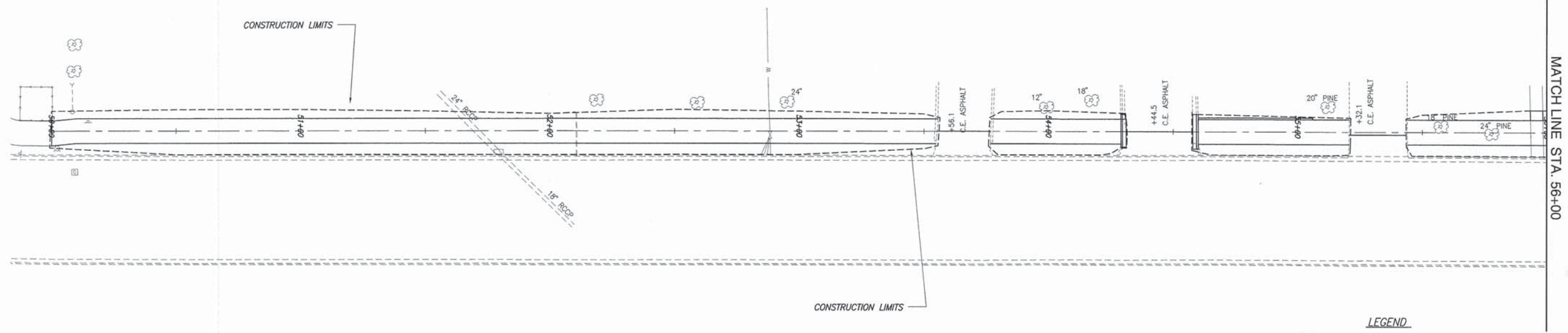
LEGEND

	INLET & PIPE PROTECTION
	HEAVY DUTY EROSION CONTROL BLANKET
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK

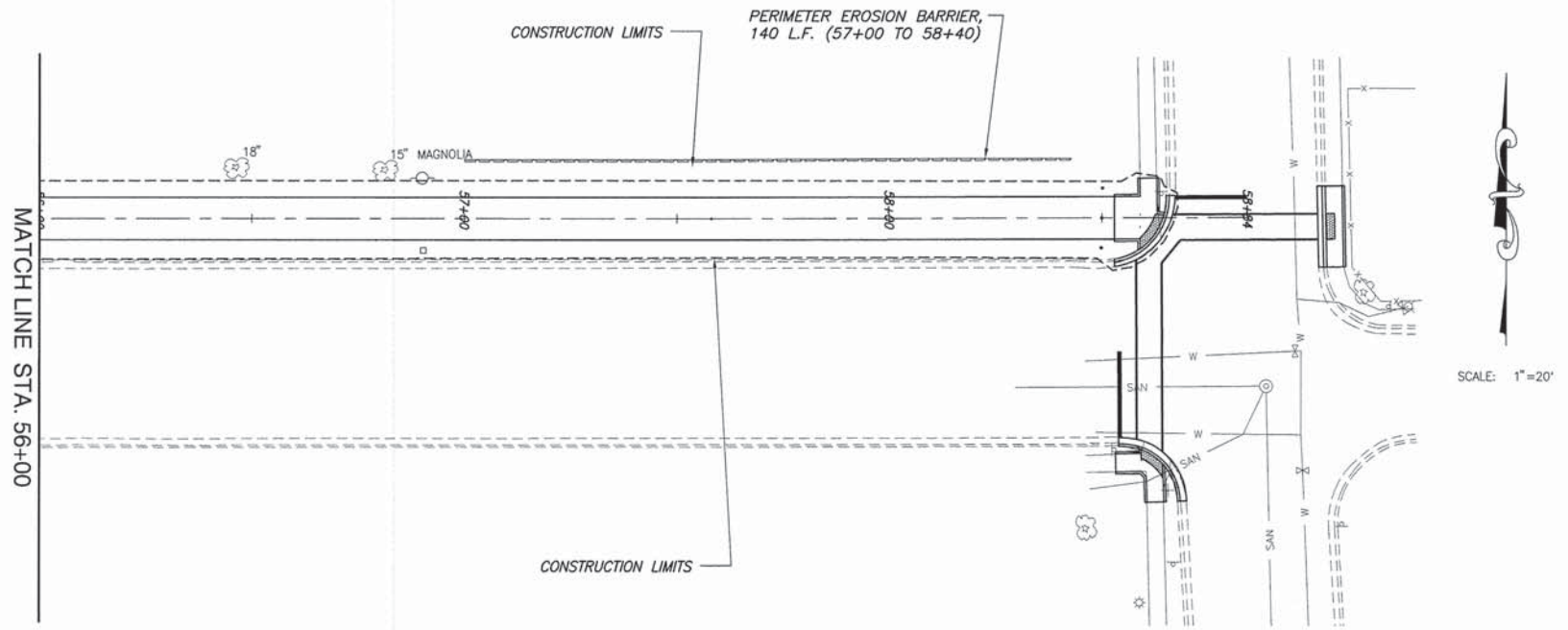


SCALE: 1"=20'

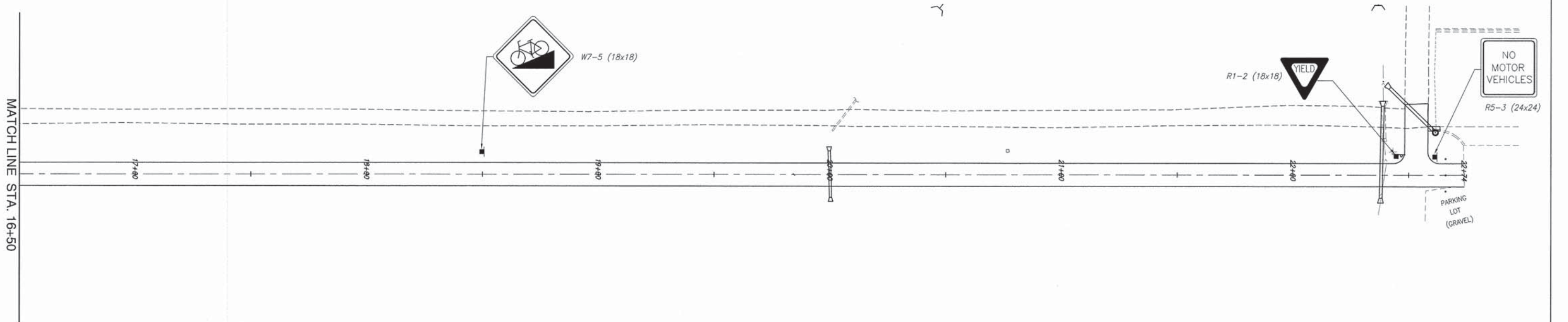
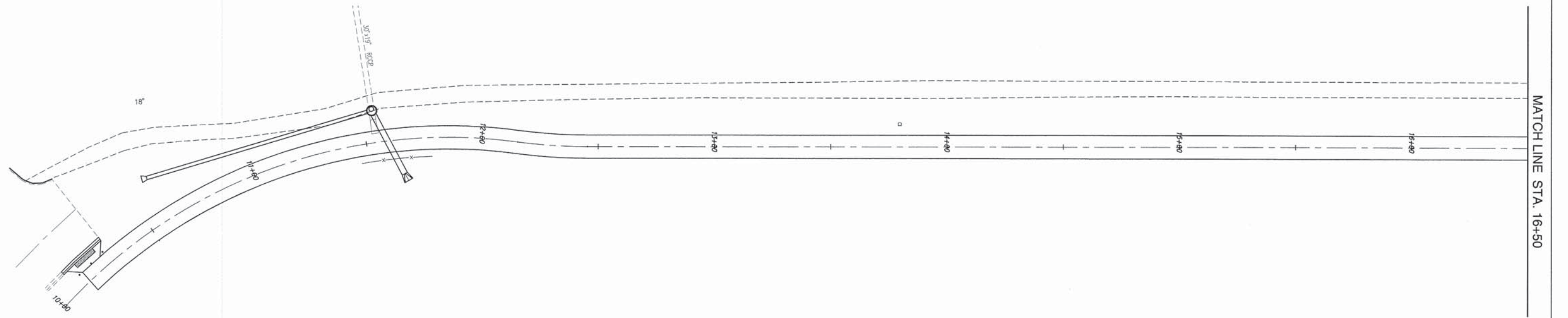
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT	RANDOLPH		25	10
STA. 50+00.00 TO STA. 58+84.00				
FEDERAL AID PROJECT		CONTRACT 97532		



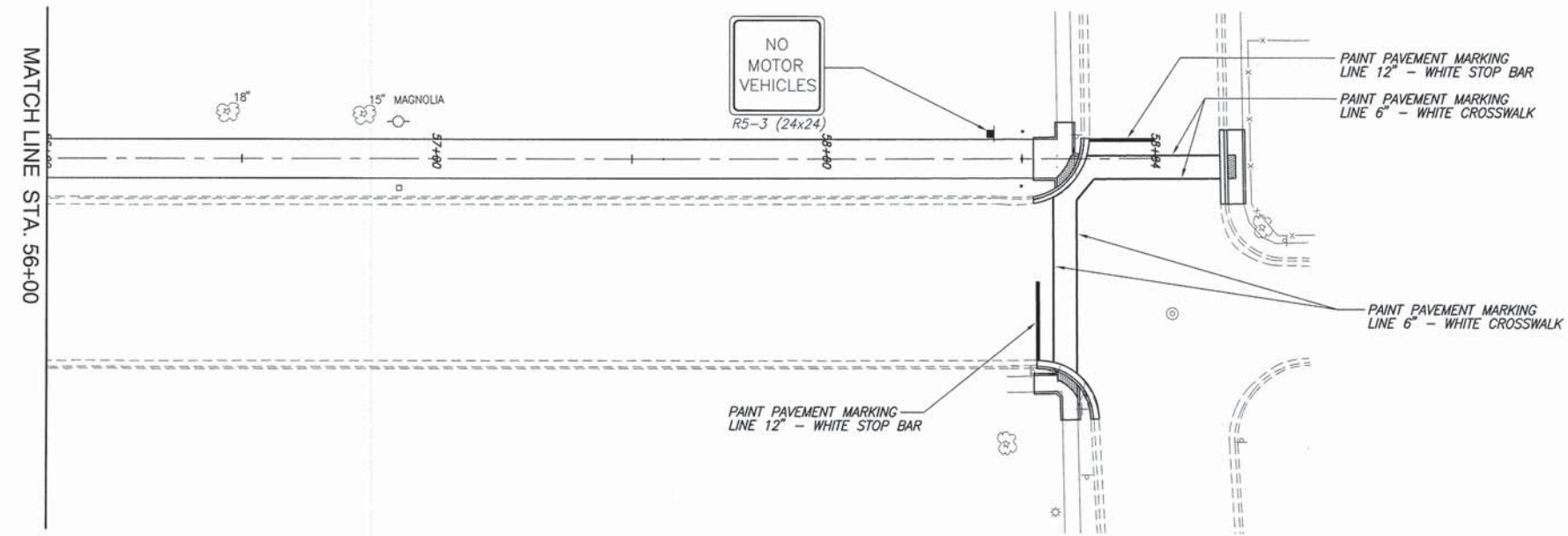
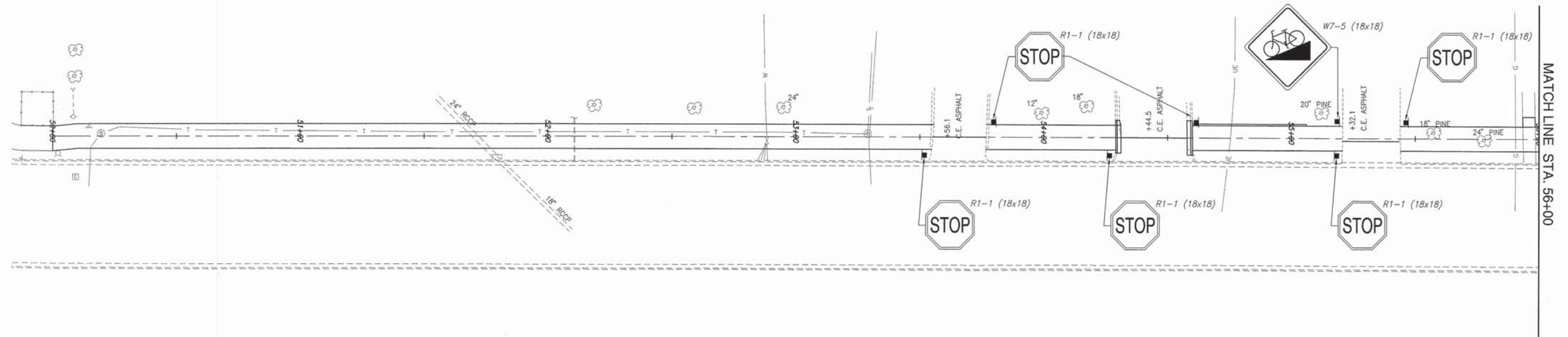
- LEGEND**
- INLET & PIPE PROTECTION
 - HEAVY DUTY EROSION CONTROL BLANKET
 - PERIMETER EROSION BARRIER
 - TEMPORARY DITCH CHECK



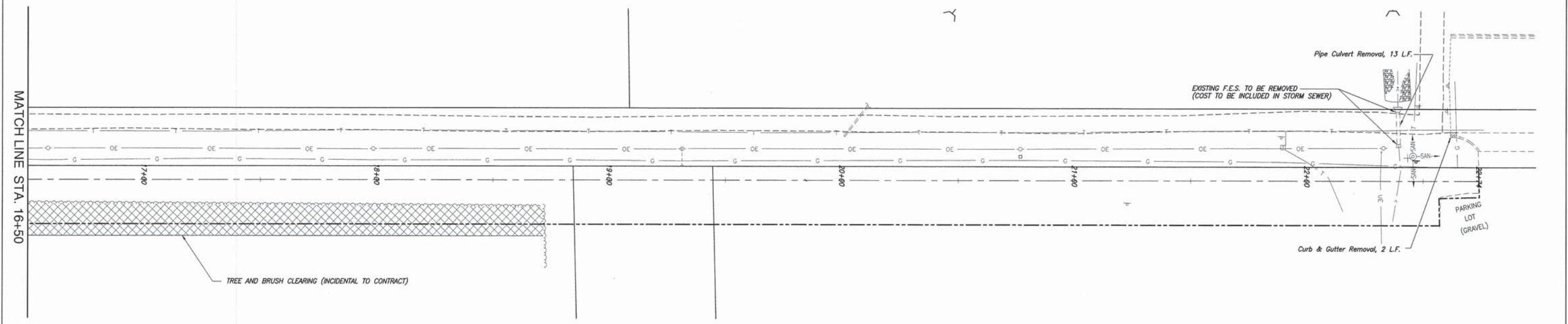
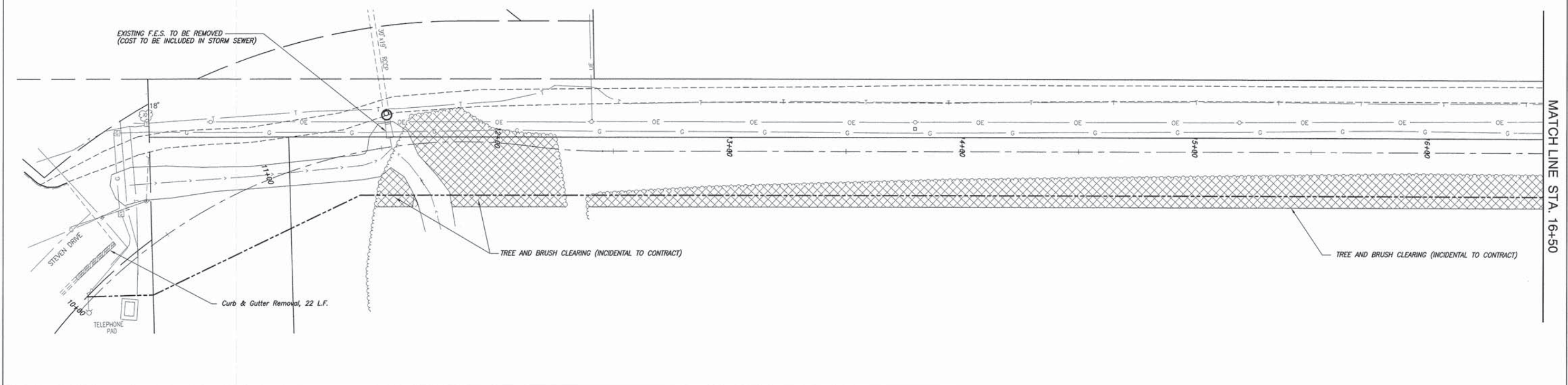
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT	RANDOLPH		24	11
STA. 10+00 TO STA. 22+74				
FEDERAL AID PROJECT		CONTRACT 97532		



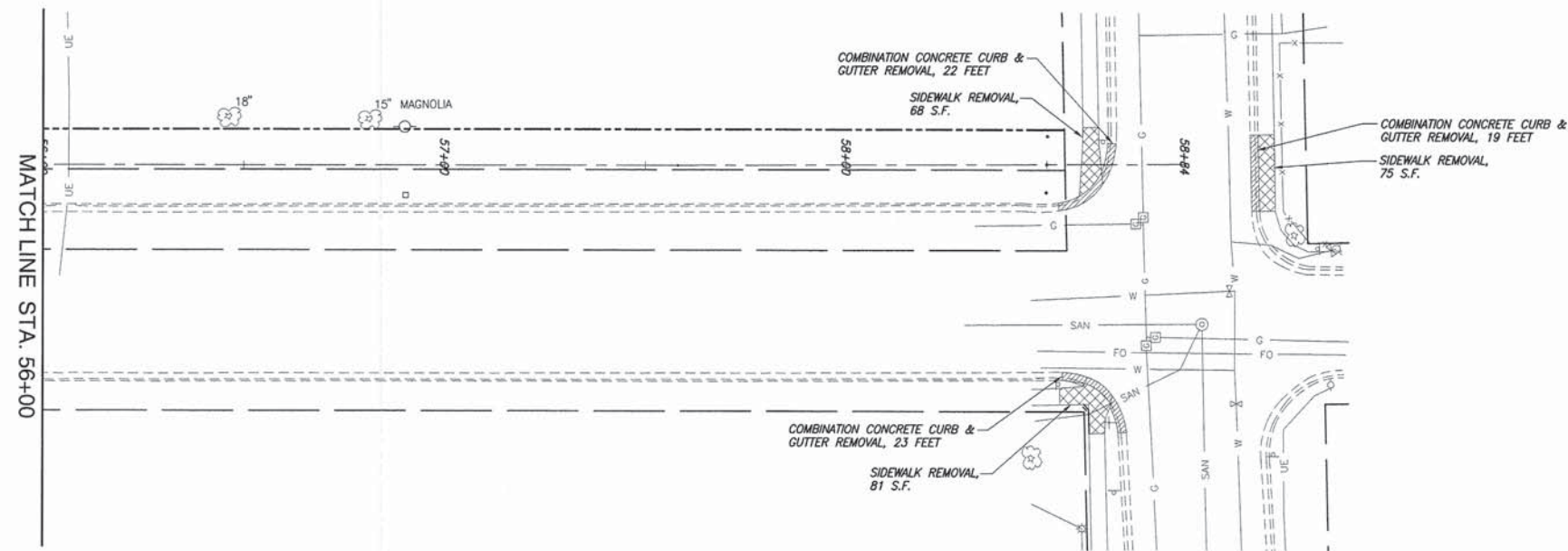
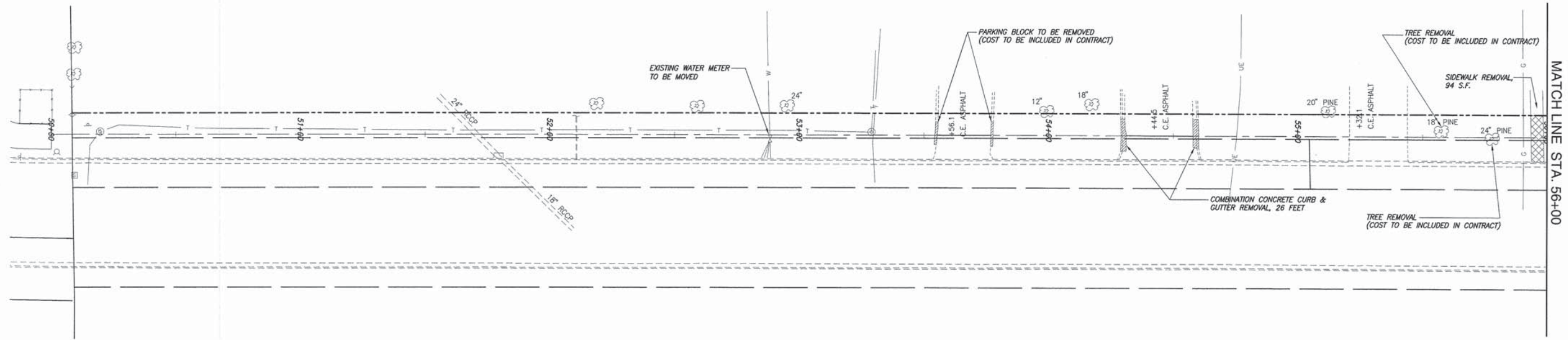
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10-00041-00-BT	RANDOLPH		24	12
STA. 50+00.00		TO	STA. 58+84.00	
FEDERAL AID PROJECT		CONTRACT 97532		



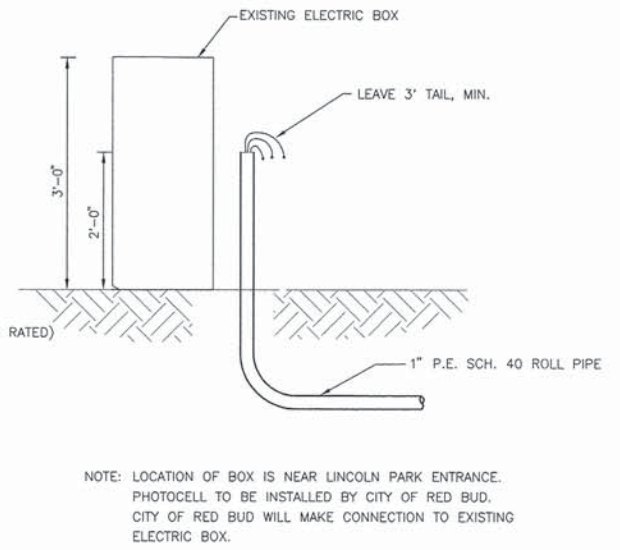
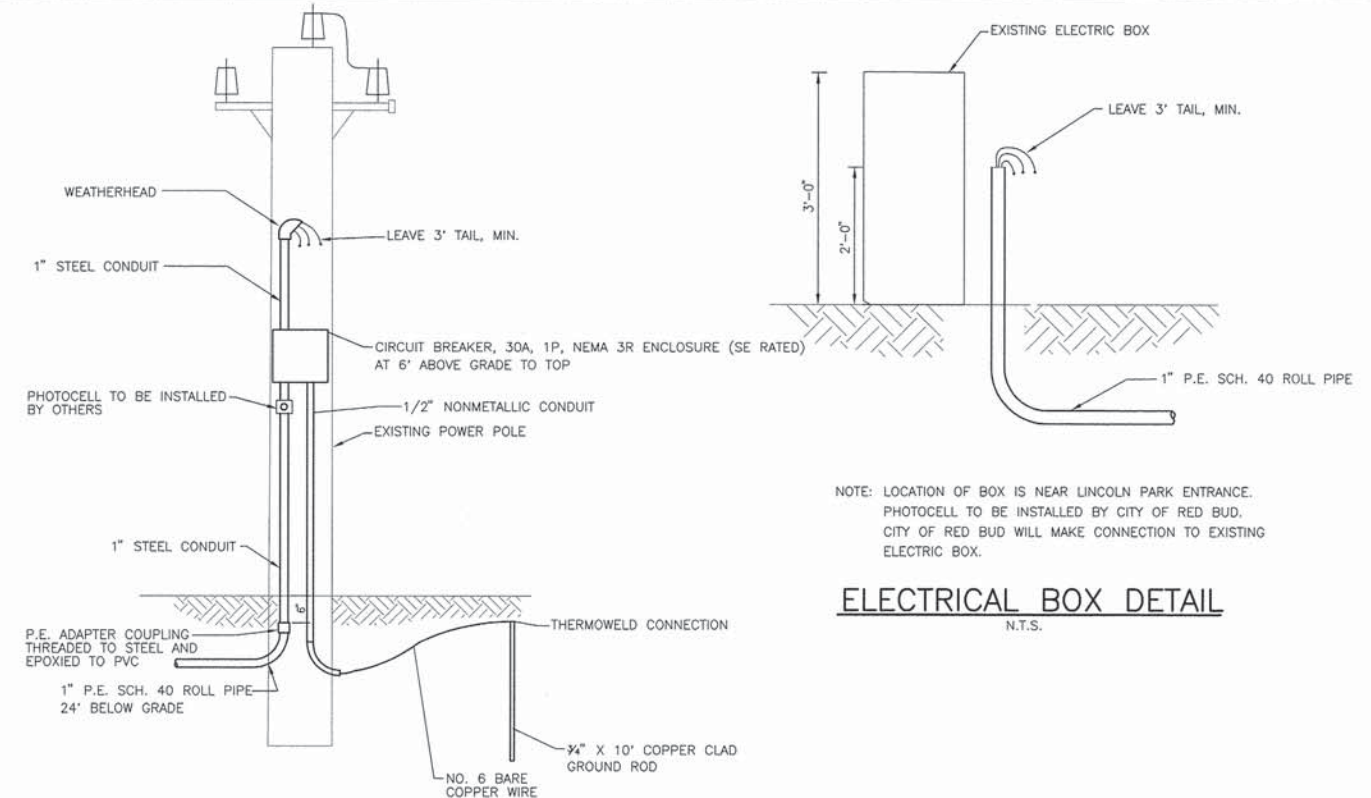
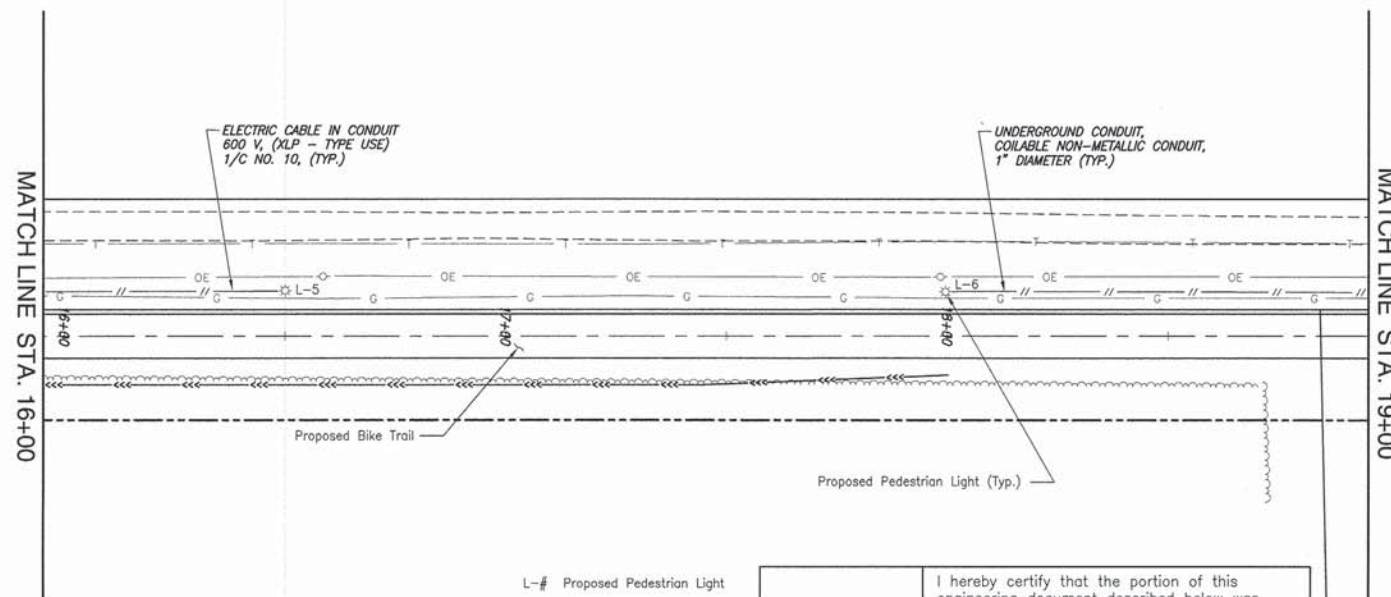
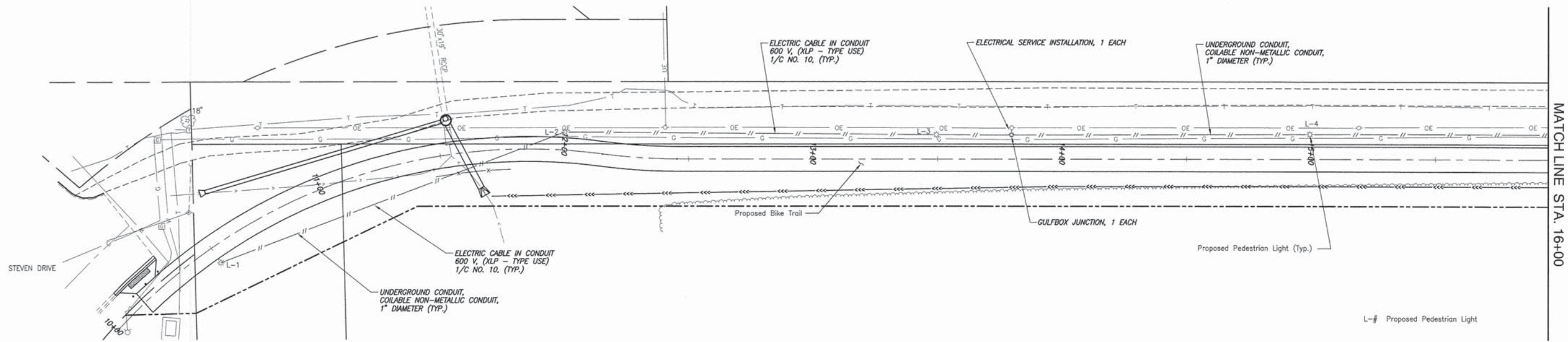
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT		RANDOLPH	24	13
STA. 10+00 TO STA. 22+74				
FEDERAL AID PROJECT		CONTRACT 97532		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT		RANDOLPH	24	14
STA. 50+00 TO STA. 58+84.00				
FEDERAL AID PROJECT		CONTRACT 97532		



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT		RANDOLPH	24	15
STA. 10+00 TO STA. 19+00				
FEDERAL AID PROJECT		CONTRACT 97532		



I hereby certify that the portion of this engineering document described below was prepared by me or under my direct supervision and responsible charge, and that I am a duly Licensed Professional Engineer under the laws of the State of Illinois.

John C. Dillaplain
 John C. Dillaplain
 6/6/13 Date of Signing
 11/30/13 Date of License Expiration

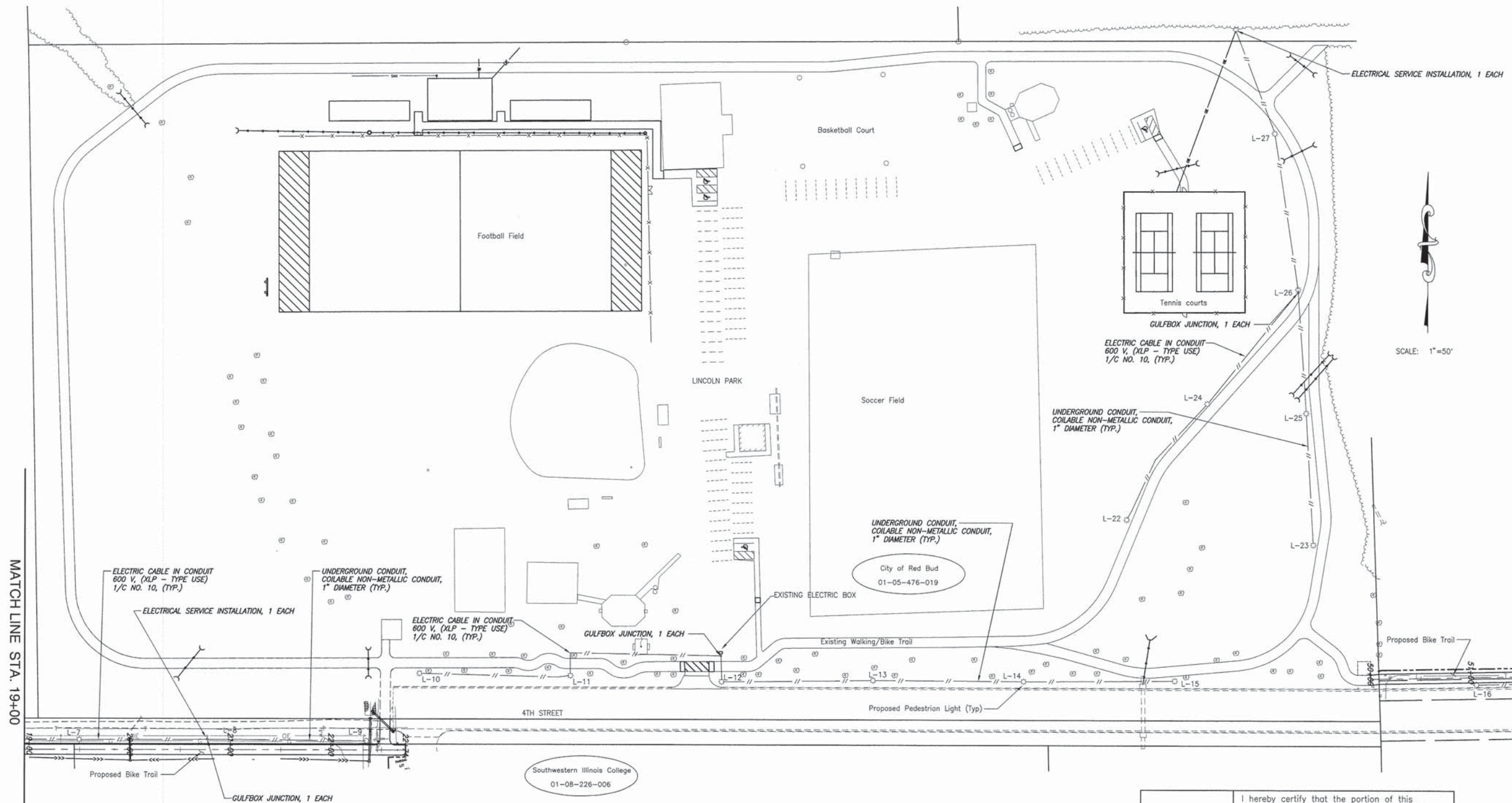
NOTES

1. VERTICAL CONDUIT SECTIONS ATTACHED TO THE SERVICE POLE SHALL BE INCIDENTAL TO THE SERVICE INSTALLATION. SUCH INSTALLATION OF CONDUIT ON THE SERVICE POLE SHALL BE DONE TO THE SATISFACTION OF THE CITY OF RED BUD UTILITY DEPARTMENT.

ELECTRICAL SERVICE INSTALLATION DETAIL
 N.T.S.

Engineering By
SOLUTIONS MEP
 ENGINEERING REDEFINED
 600 S. Holmes Ave., Suite One
 St. Louis, MO 63122
 (314) 966-6299
 www.solutions-mep.com
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT		RANDOLPH	24	16
STA. 19+00.00 TO		STA. 51+50.00		
FEDERAL AID PROJECT		CONTRACT 97532		



MATCH LINE STA. 19+00

MATCH LINE STA. 51+50

I hereby certify that the portion of this engineering document described below was prepared by me or under my direct supervision and responsible charge, and that I am a duly Licensed Professional Engineer under the laws of the State of Illinois.

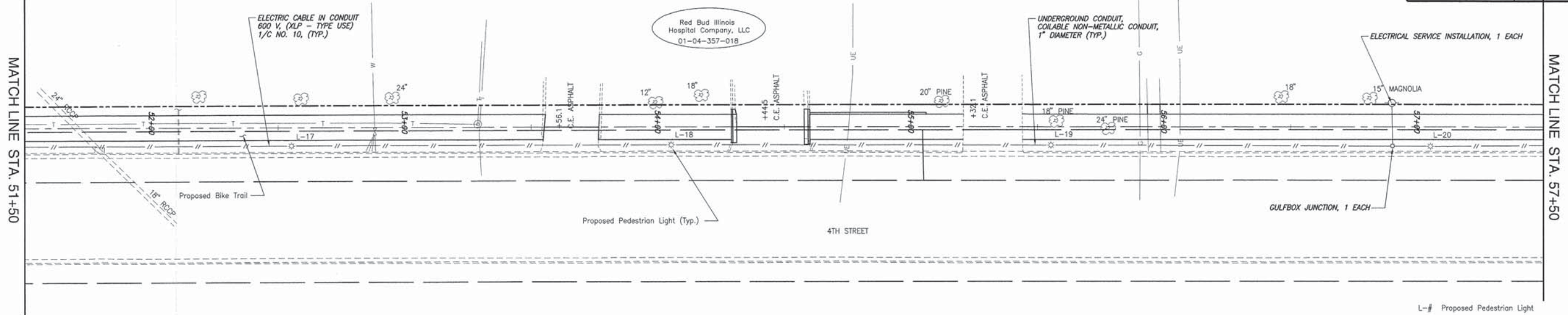
John Kilgallon
 John Kilgallon
 Date of Signing: 6/6/13
 Date of License Expiration: 11/30/17



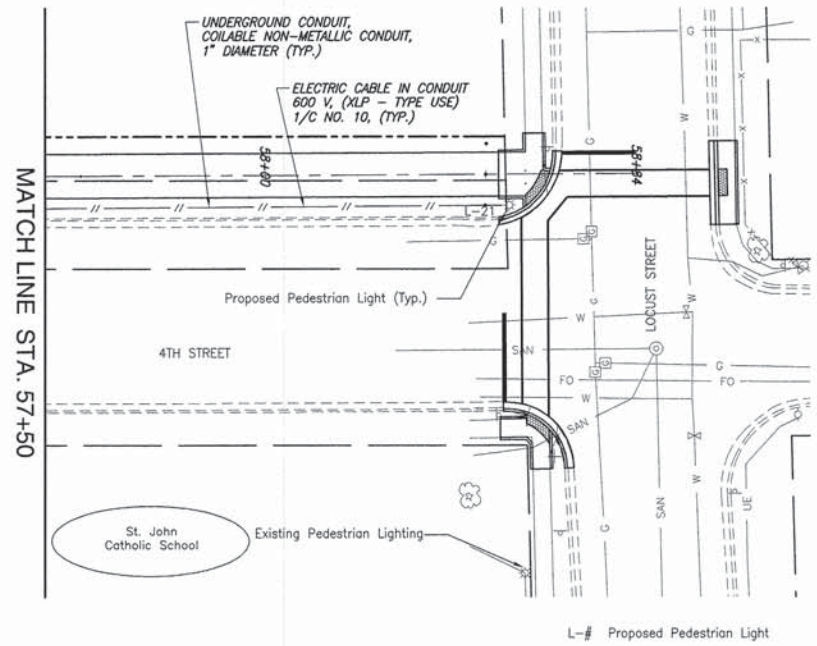
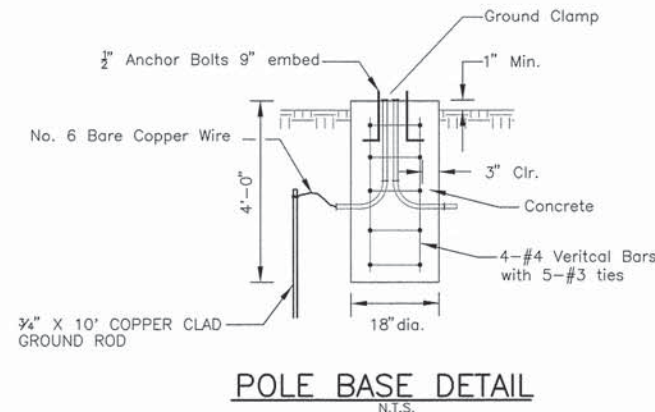
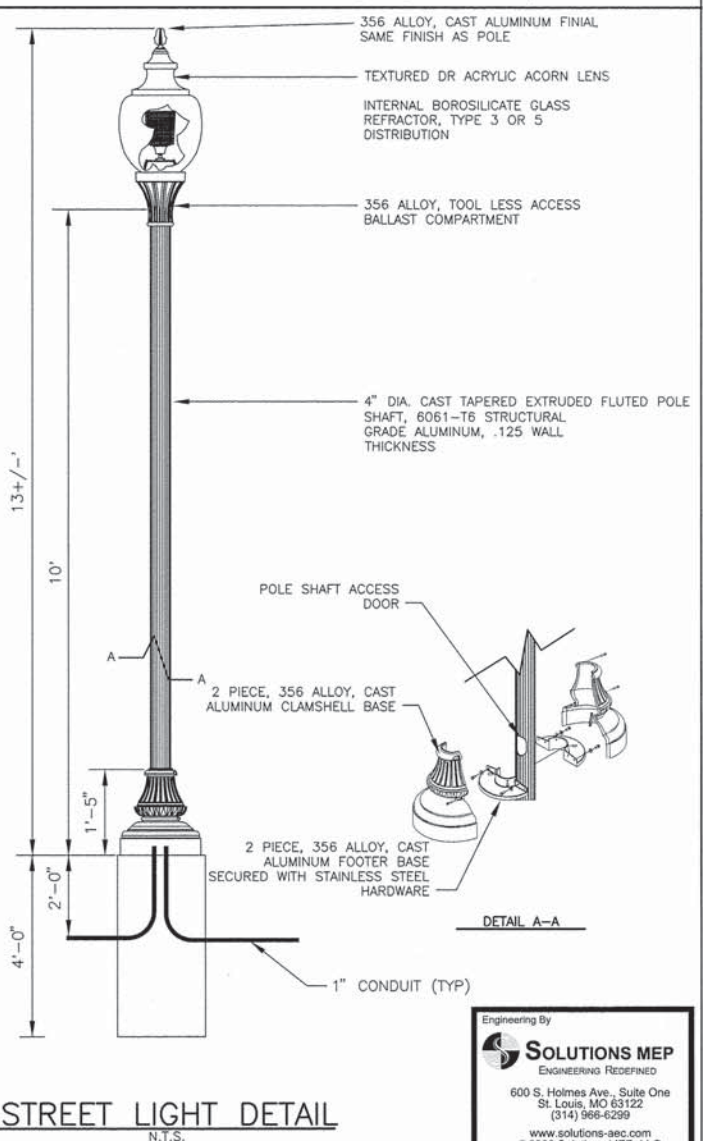
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 (314) 966-6299
 www.solutions-mep.com
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UTILITY PLAN 4TH STREET BIKE TRAIL CONNECTOR
 RANDOLPH COUNTY, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT	RANDOLPH	24	17	
STA. 51+50.00		TO	STA. 58+84.00	
FEDERAL AID PROJECT		CONTRACT 97532		



LIGHT FIXTURE SCHEDULE						
MANUFACTURE & CATALOG	VOLTAGE	LAMPS	GLOBE	MOUNTING	BASE	DESCRIPTION & REMARKS
SEE SPECIAL PROVISIONS	120	(1) 150W HIGH PRESSURE SODIUM	ACORN	POST TOP	CAST ALUMINUM	PROVIDE 10\"/>



GENERAL NOTES
 UNLESS OTHERWISE NOTED, SITE LIGHTING SHALL BE (2) #10, (1) #10G IN 1" CONDUIT.
 ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 817.04.

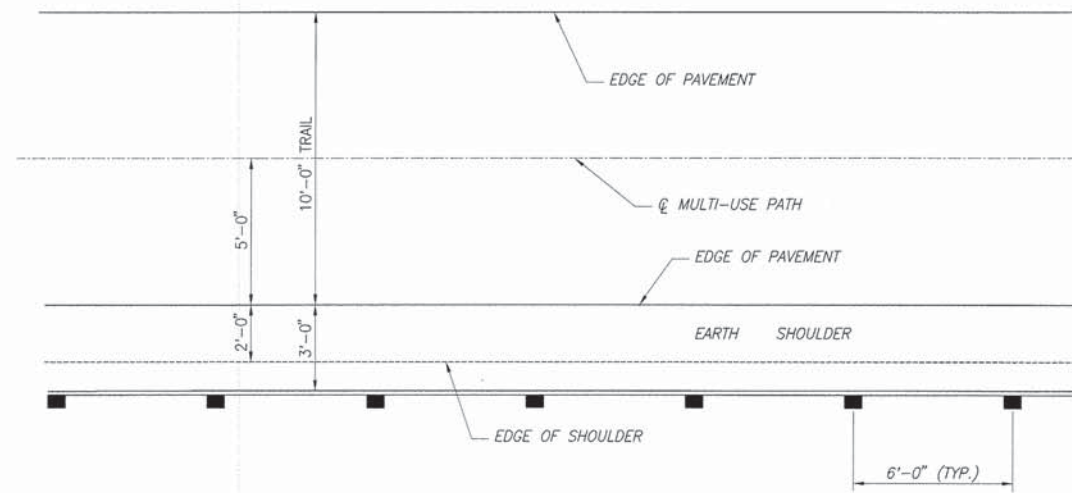
I hereby certify that the portion of this engineering document described below was prepared by me or under my direct supervision and responsible charge, and that I am a duly Licensed Professional Engineer under the laws of the State of Illinois.

John C. Dillapian
 John Dillapian
 6/6/13
 11/30/13

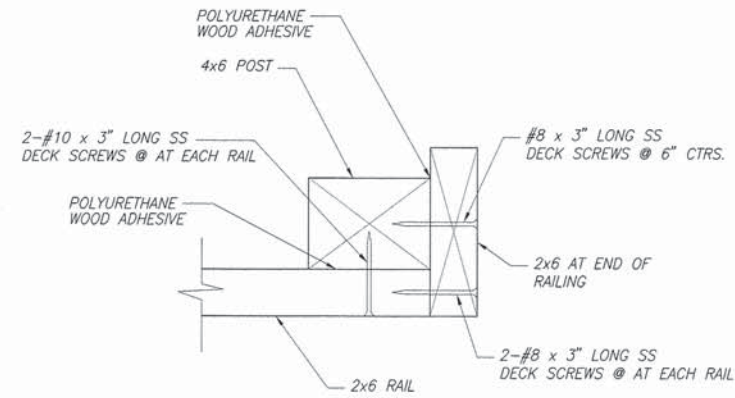


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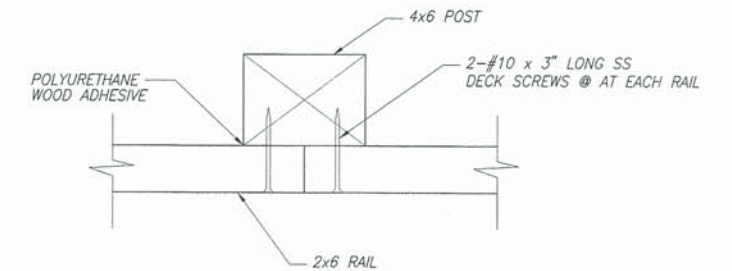
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT		RANDOLPH	24	18
STA 10+22.52 TO		STA. 58+16.33		
FEDERAL AID PROJECT		CONTRACT XXXXX		



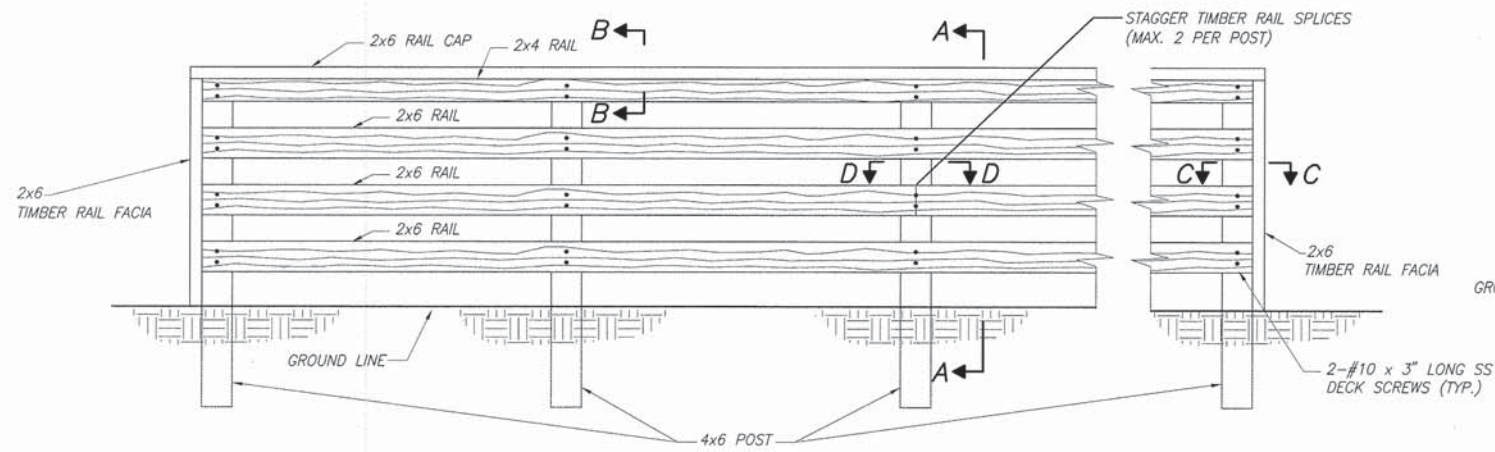
PLAN
N.T.S.



SECTION C-C
N.T.S.



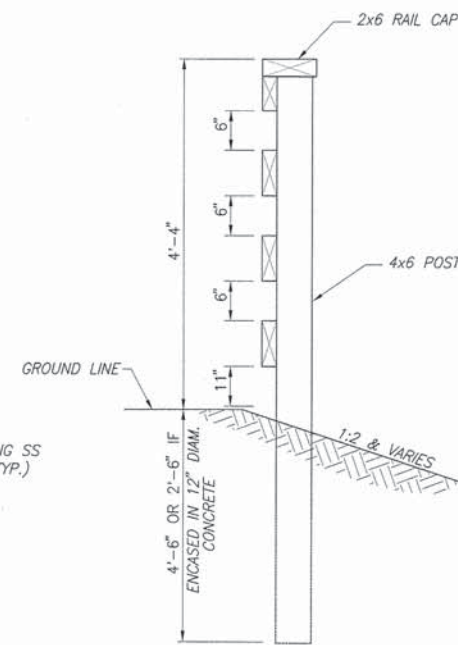
SECTION D-D
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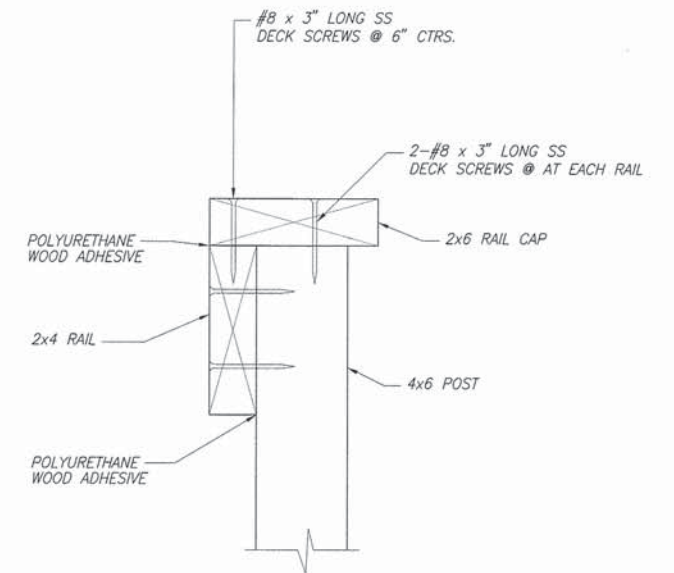
WOOD FENCE DETAIL
N.T.S.

NOTES:
NO SPLICES ALLOWED ON END RAILING

TOP OF RAIL SHALL BE INSTALLED A MINIMUM OF 4'-4" ABOVE THE FINISHED GROUND LINE. ADJUST POST LENGTH ACCORDINGLY IN FIELD.

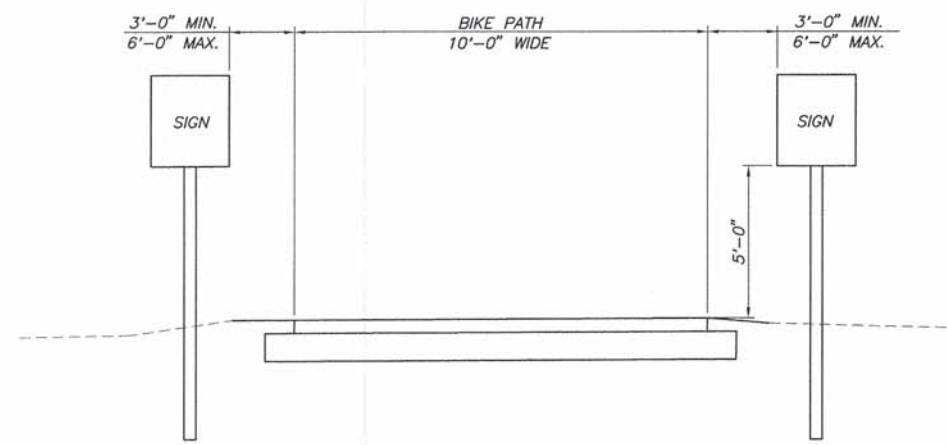


SECTION A-A
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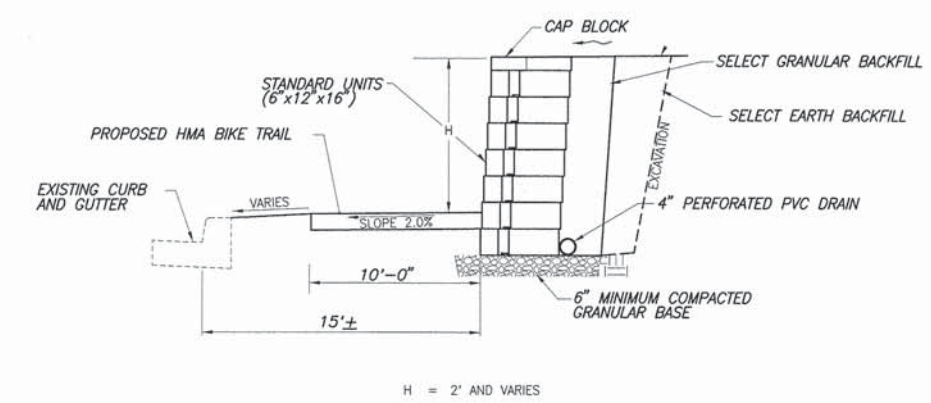


SECTION B-B
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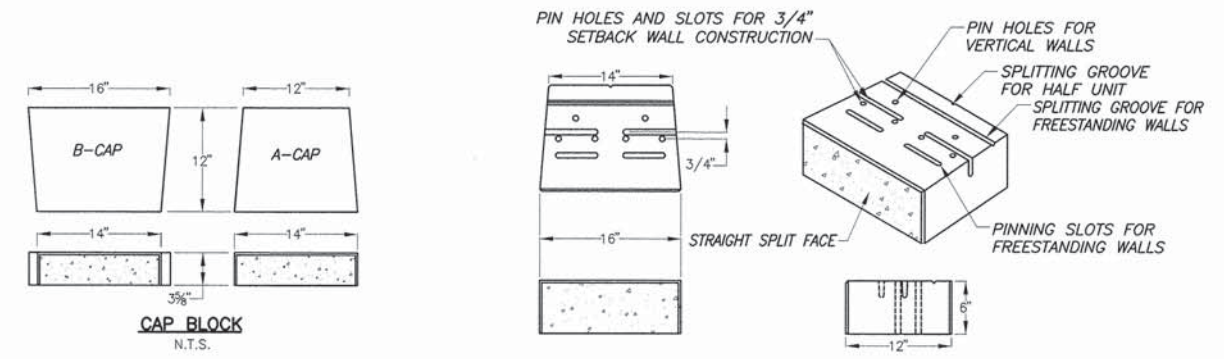
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
10-00041-00-BT		RANDOLPH	24	19
STA 10+22.52 TO		STA. 58+16.33		
FEDERAL AID PROJECT		CONTRACT 97532		



SIGN PLACEMENT DETAIL
N.T.S.

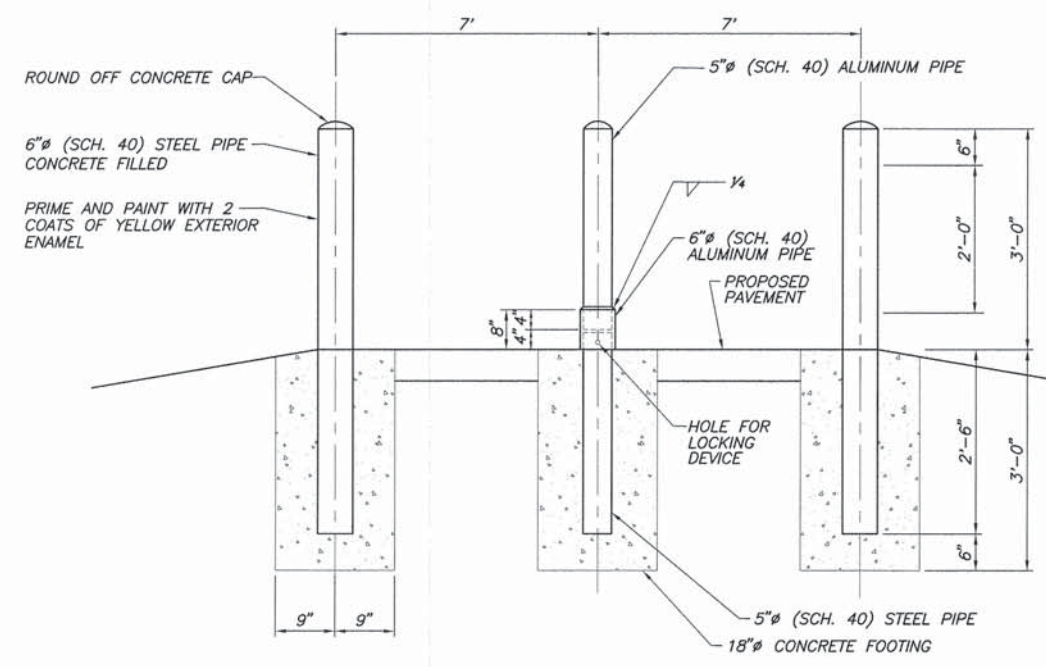


SEGMENTAL CONCRETE BLOCK WALL DETAIL
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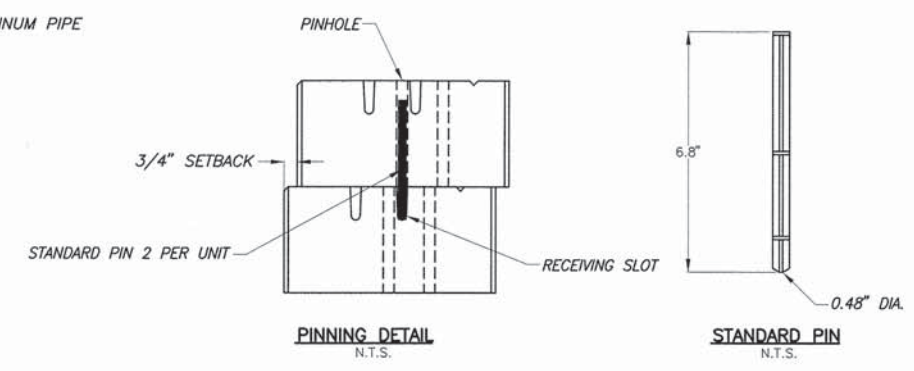
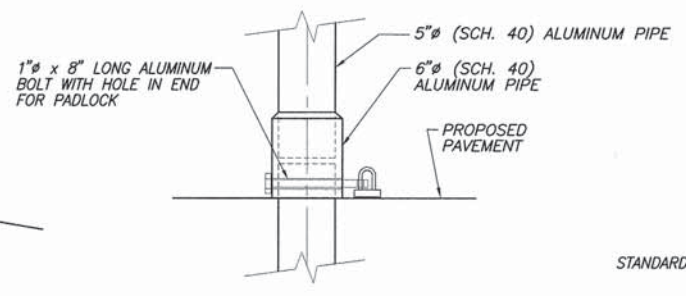


CAP BLOCK
N.T.S.

STANDARD UNIT
N.T.S.

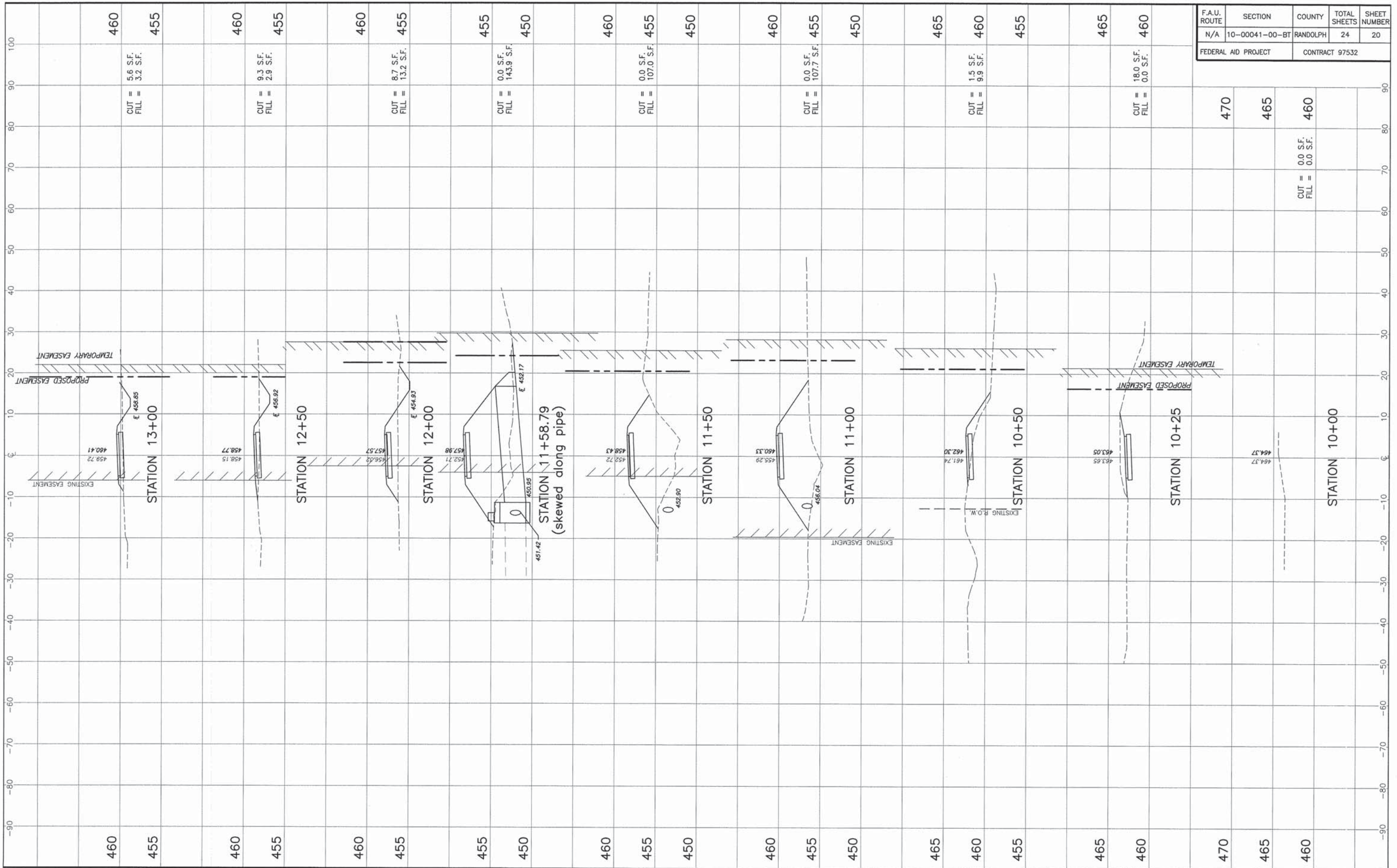


BOLLARD DETAIL
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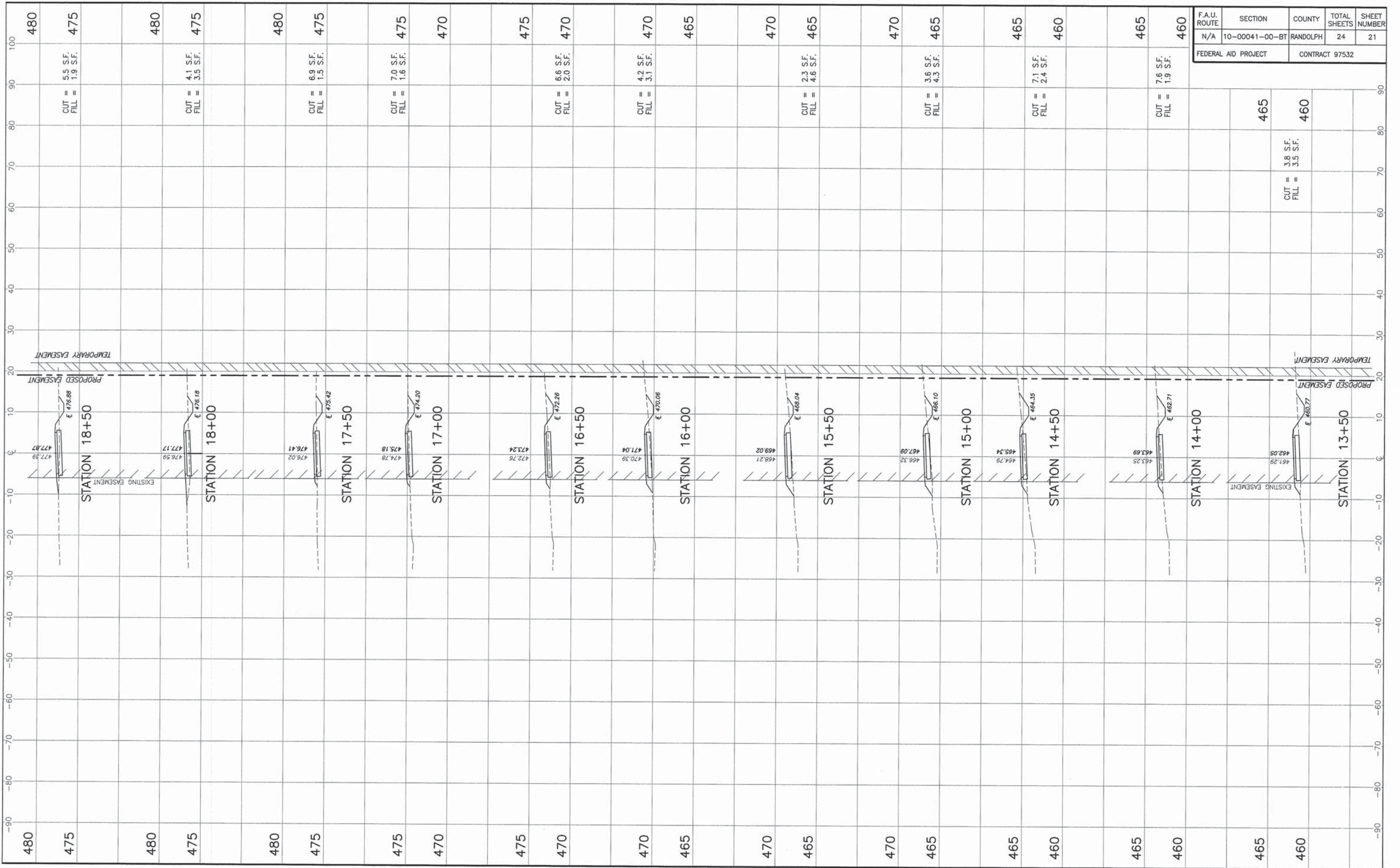
PINNING DETAIL
N.T.S.

STANDARD PIN
N.T.S.

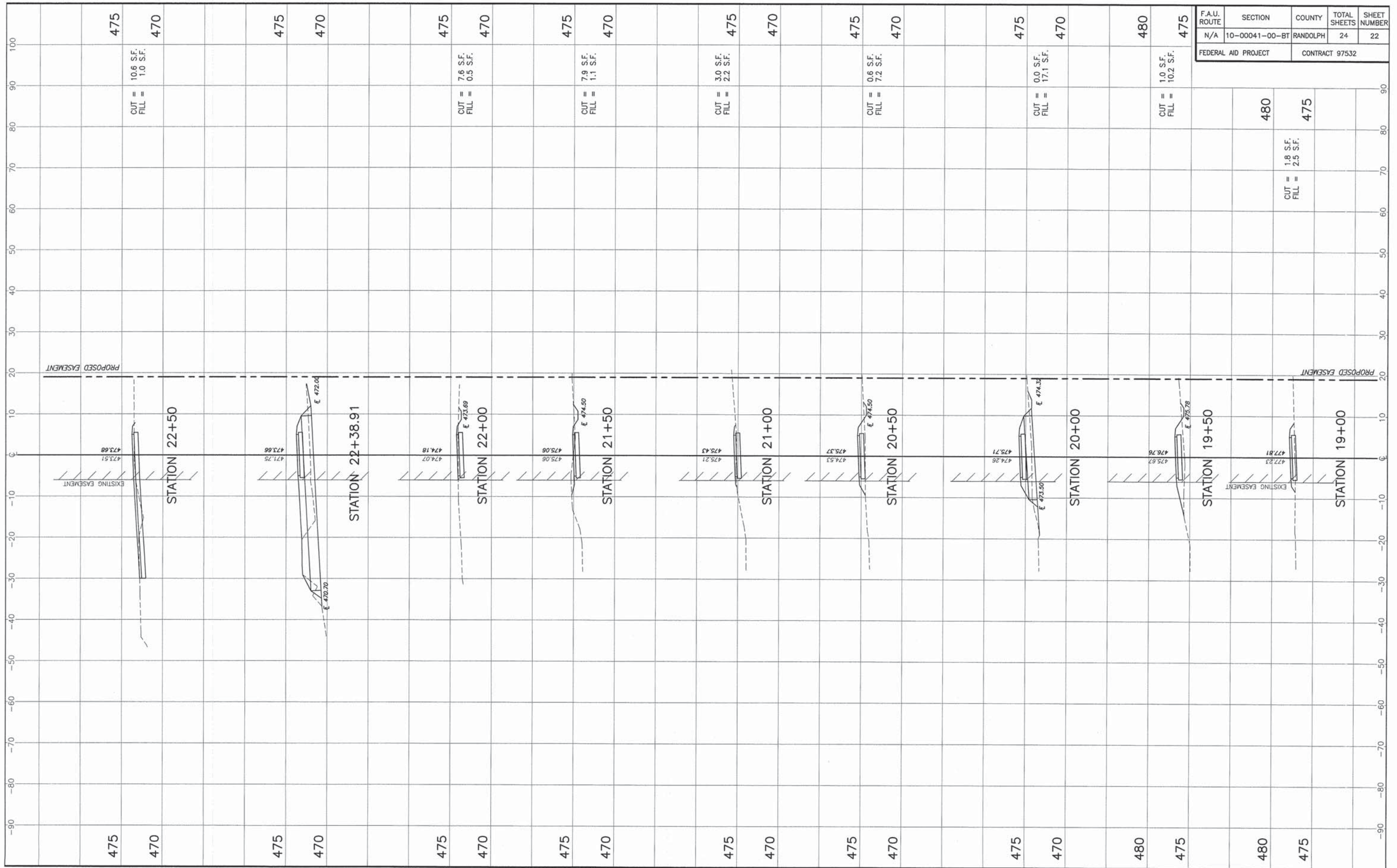


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
N/A	10-00041-00-BT	RANDOLPH	24	20
FEDERAL AID PROJECT		CONTRACT 97532		

STA. 10+00.00 - STA. 13+00.00 CROSS SECTIONS
 SECTION 10-00041-00-BT RANDOLPH COUNTY, ILLINOIS

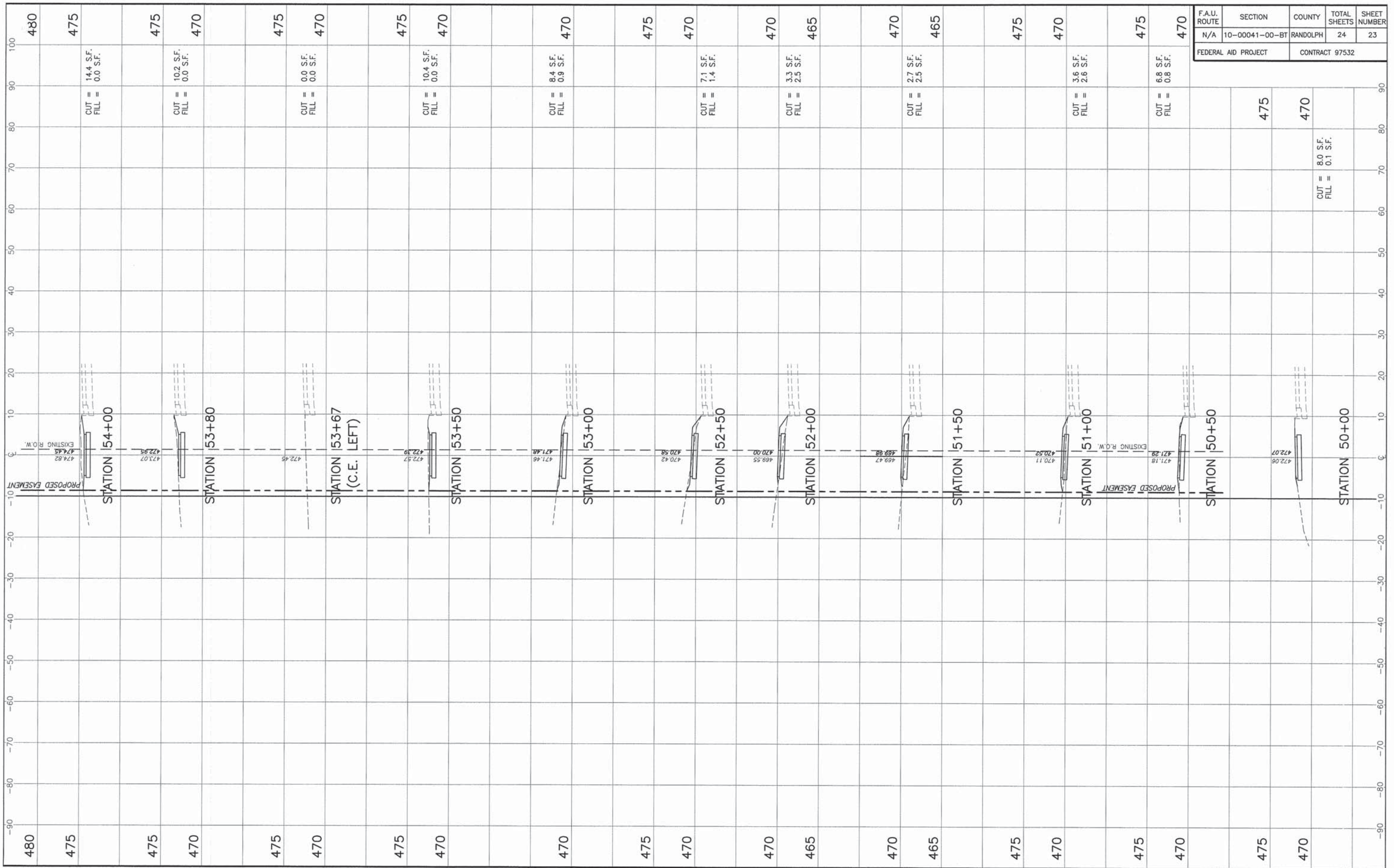


STA. 13+50.00 - STA. 18+50.00 CROSS SECTIONS
SECTION 10-00041-00-BT RANDOLPH COUNTY, ILLINOIS



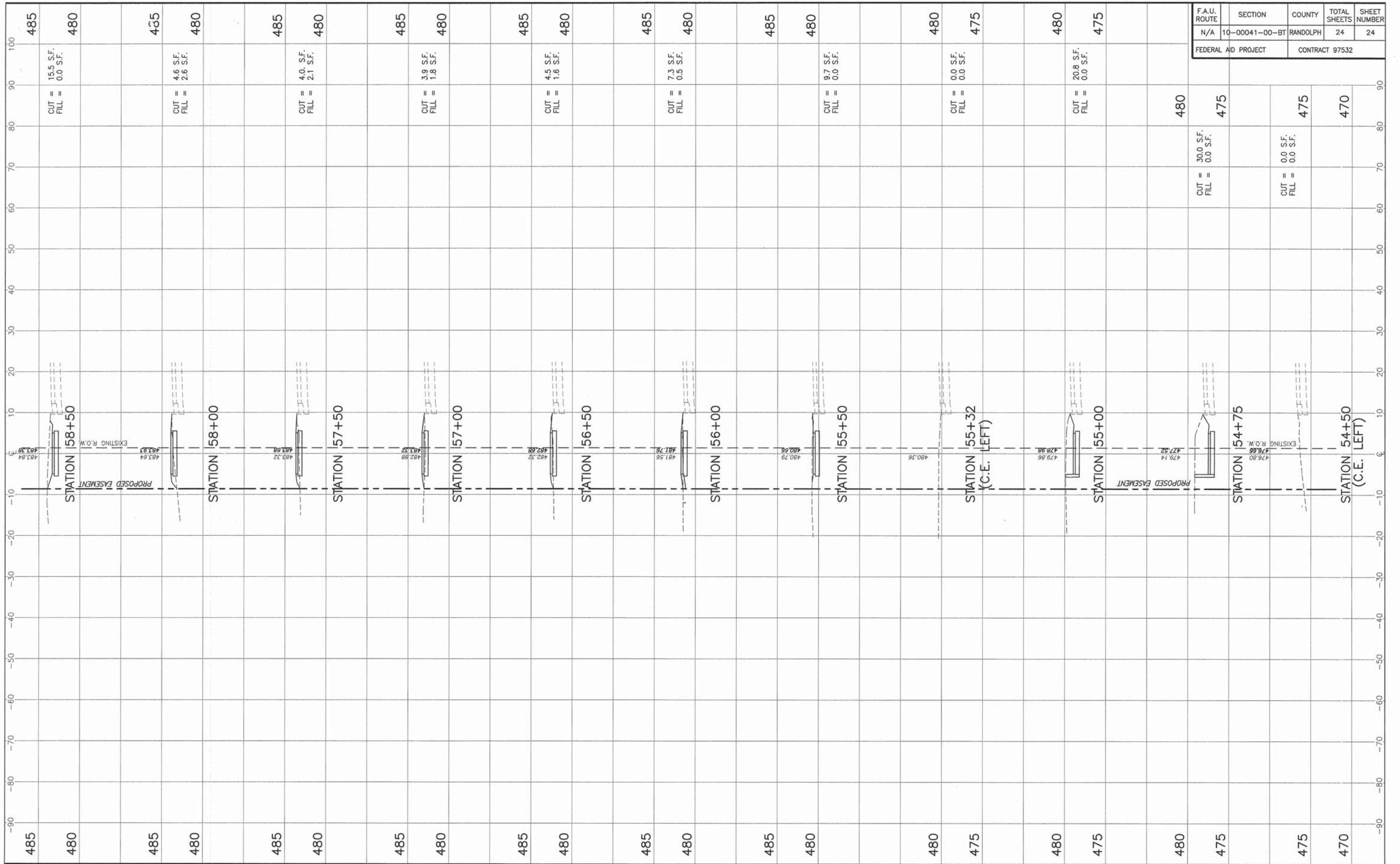
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
N/A	10-00041-00-BT	RANDOLPH	24	22
FEDERAL AID PROJECT		CONTRACT 97532		

STA. 19+00.00 - STA. 22+50.00 CROSS SECTIONS
SECTION 10-00041-00-BT RANDOLPH COUNTY, ILLINOIS



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
N/A	10-00041-00-BT	RANDOLPH	24	23

FEDERAL AID PROJECT CONTRACT 97532



F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
N/A	10-00041-00-BT	RANDOLPH	24	24
FEDERAL AID PROJECT		CONTRACT 97532		

STA. 54+50.00 - STA. 58+50.00 CROSS SECTIONS
SECTION 10-00041-00-BT RANDOLPH COUNTY, ILLINOIS