

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	121-1	FULTON	31	1
		ILLINOIS	CONTRACT NO. 68974	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 574 (IL 41)

SECTION 121-1

FULTON COUNTY

C-94-093-10

D-94-039-10

INDEX OF SHEETS

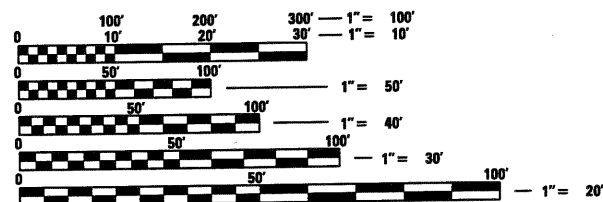
1. Cover Sheet
2. Commitments and General Notes
3. Status of Utilities
- 4-5. Summary of Quantities
6. Typical Sections
7. Stage Typical sections
- 8-11. Schedule of Quantities
12. Existing and Removal Plans
13. Proposed Plans
14. Profile Sheet
15. Landscaping and erosion control plans
16. Underdrain Detail
17. French Drain Detail
- 18-26. Cross Section Sheets
- 27-31. Cadd Standards:
205001-D4
281001-D4
542011-D4
780001-D4

LIST OF STANDARDS:

- | | |
|-----------|-----------|
| 280001-05 | 701006-03 |
| 542301-02 | 701201-03 |
| 601101-01 | 701301-03 |
| 666001-01 | 701901-01 |
| 701001-02 | 704001-06 |

TRAFFIC DATA:

ADT = 2,200 (2009)
MU % = 4.55%
SU % = 4.09 %

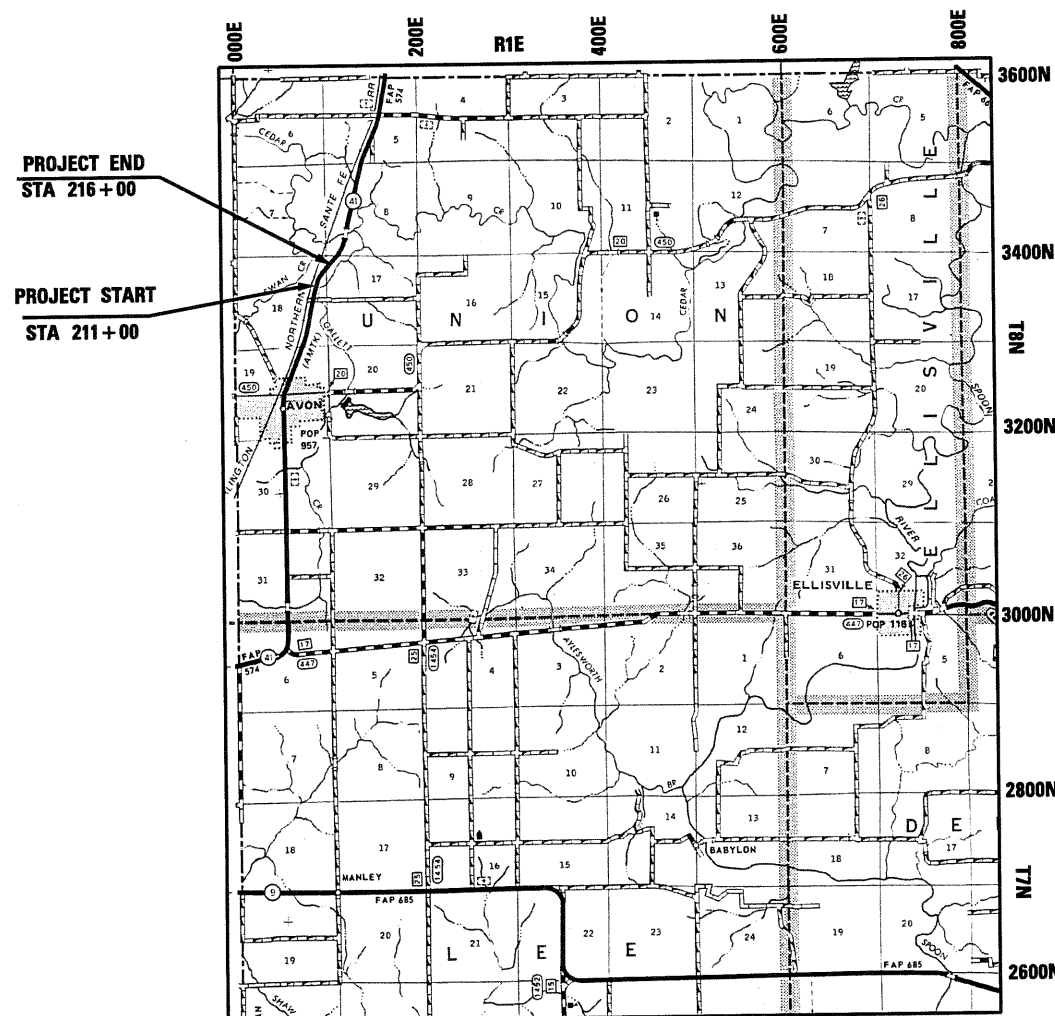


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

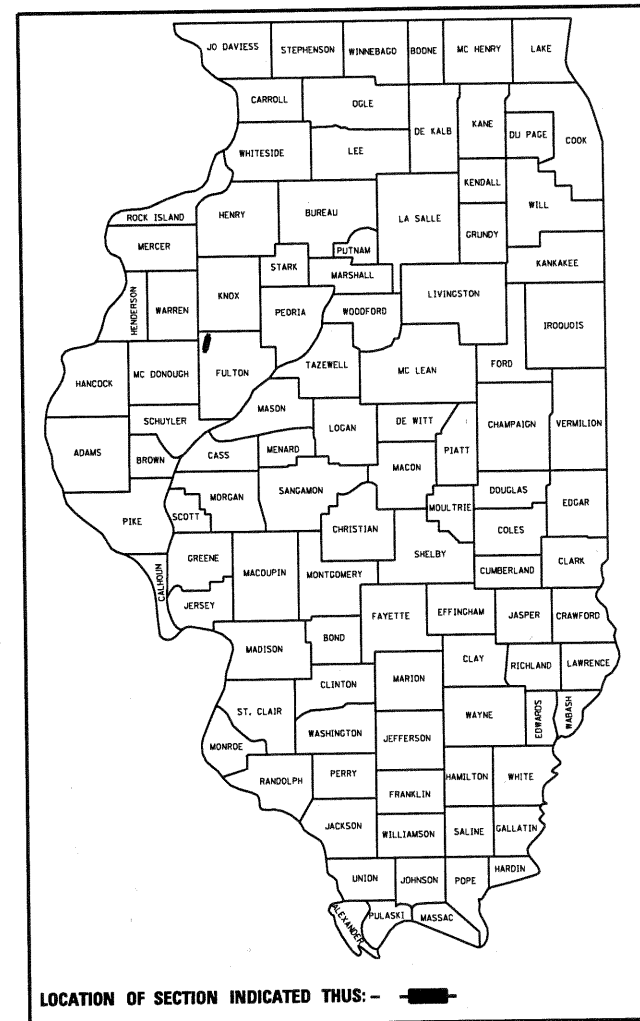
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: RICHARD DOTSON (309)671-3455
SQUAD LEADER: ELIAS ELDERZI (309)671-3459

CATALOG NO. 034443-00D
CONTRACT NO. 68974



GROSS LENGTH = 500 FT. = 0.0947 MILES
NET LENGTH = 500 FT. = 0.0947 MILES



PROJECT DESCRIPTION:
IMPROVEMENTS TO SLOPE FAILURE ALONG LT & RT SIDES OF IL 41,
APPROXIMATELY 1 MILE NORTH OF AVON (APPROX. 200'-300' NORTH
OF SHOE FLY ROAD)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JUNE 08 2010
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Aug 13 2010
Scott E. Stitt P.E./lc
acting ENGINEER OF DESIGN AND ENVIRONMENT

Aug 13 2010
Christine M. Reed/lc
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

COMMITMENTS

No Commitments have been made for this project

GENERAL NOTES

PLAN ELEVATIONS – U. S. G. S. MEAN SEA LEVEL DATUM

All elevations shown on the plans are established from U. S. G. S. mean sea level datum.

UTILITIES – LOCATIONS / INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown — all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

TREE REMOVAL – UTILITY RELOCATION

Tree removal may be necessary prior to utility companies being able to relocate their facilities outside the construction limits. The Contractor should coordinate any contract tree removal activities with the utility companies to eliminate conflicts and potential delays caused by utility tree removal activities or incomplete utility relocations.

TREE REMOVAL

The District Four Tree Committee should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

ORDERING LENGTH CONFIRMATION – DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Environmental Survey Request)
- * A location map showing the size limits and location of the use area
- * Signed property owner agreement form-D4 PI0100
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form-D4 PI0101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

ENGINEERS FIELD OFFICE

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):
All of the telephone lines provided shall have unpublished numbers.

JOB SPECIFIC NOTE:

Existing guardrail to be removed shall become the property of Illinois Department of Transportation. Please Contact Dave Cambell at (309) 837-5837.

FILE NAME = D468974-sht-gennote.dgn	USER NAME = crespole	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 41 SLOPE REPAIR COMMITMENTS AND GENERAL NOTES	F.A.P. RTE. 574	SECTION 12I-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 2
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT CONTRACT NO. 68974		
	PLOT DATE = 6/15/2018	CHECKED -	REVISED -							
		DATE -	REVISED -							

STATUS OF UTILITIES

AMEREN IP (GAS)

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 41	Rt. 32' to 65'	212+00 to 214+50	Gas Main	Slope Repair	Relocate

CENTURY TELEPHONE

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 41	Lt. 18' to 23'	212+60 to 214+20	(3) Fiber Optic Cable	Slope Repair & Guardrail	Relocate

AMEREN IP (ELECTRIC) & MEDIA COMMUNICATIONS

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 41	35' Rt.	212+45	Power Pole	Slope Repair	Relocate
IL 41	35' Rt.	214+05	Power Pole	Slope Repair	Relocate

FILE NAME = D468974-SHT-UTILITIES.dgn	USER NAME = crespole	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 41 SLOPE REPAIR
STATUS OF UTILITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	121-1	Fulton	31	3
CONTRACT NO. 68974				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100% STATE Y009	
				ROADWAY	RURAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	49	49	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	37	37	
20200100	EARTH EXCAVATION	CU YD	707	707	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1933	1933	
20400800	FURNISHED EXCAVATION	CU YD	2968	2968	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	863	863	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3212	3212	
25000300	SEEDING, CLASS 3	ACRE	0.75	0.75	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	60	60	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	60	60	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	60	60	
25100115	MULCH, METHOD 2	ACRE	0.75	0.75	
25100630	EROSION CONTROL BLANKET	SQ YD	2993	2993	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	140	140	
28000305	TEMPORARY DITCH CHECKS	FOOT	49	49	
28000400	PERIMETER EROSION BARRIER	FOOT	473	473	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28100105	STONE RIPRAP, CLASS A3	SQ YD	323	323	
28100107	STONE RIPRAP, CLASS A4	SQ YD	39	39	
28100125	STONE RIPRAP, CLASS B3	SQ YD	180	180	
28200200	FILTER FABRIC	SQ YD	82	82	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	153	153	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100% STATE Y009	
				ROADWAY	RURAL
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2	
50105220	PIPE CULVERT REMOVAL	FOOT	53	53	
50800105	REINFORCEMENT BARS	POUND	60	60	
52100510	ANCHOR BOLTS, 3/4"	EACH	16	16	
542A1075	PIPE CULVERTS, CLASS A, TYPE 2 30"	FOOT	20	20	
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	29	29	
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1	
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1	
54248510	CONCRETE COLLAR	CU YD	1.5	1.5	
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4	4	
60100080	FRENCH DRAINS	CU YD	33.5	33.5	
60100905	PIPE DRAINS 4"	FOOT	177	177	
60109620	BACKSLOPE DRAINS, TYPE 2, 4"	FOOT	775	775	
63200310	GUARDRAIL REMOVAL	FOOT	200	200	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	LSUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4800	4800	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1584	1584	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400	400	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300	300	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1800	1800	

*SPECIALTY ITEM

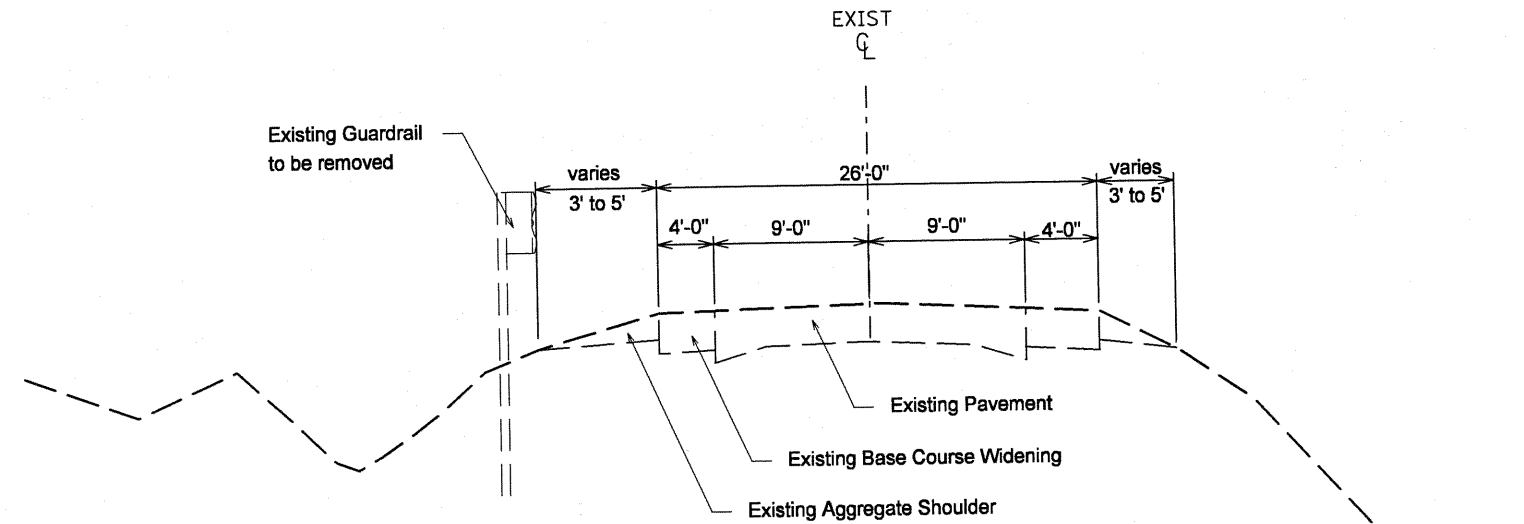
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	PLOT SCALE = 1/8" = 100.0000' / IN.	DRAWN -	REVISD -								
	PLOT DATE = 6/21/2010	CHECKED -	REVISD -								
		DATE -	REVISD -								

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100% STATE Y009	ROADWAY RURAL
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
Z0022800	FENCE REMOVAL	FOOT	520		520
* Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2
* Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2		2
Z0054500	ROCK FILL	TON	828		828

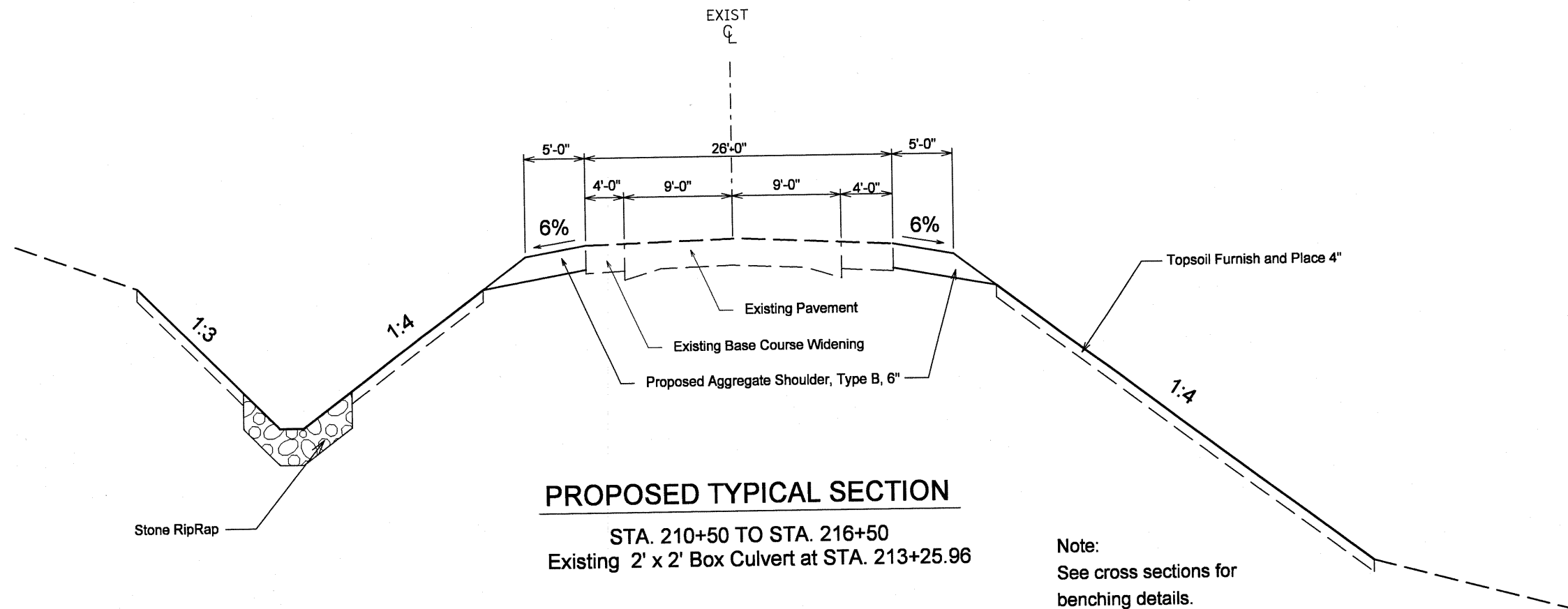
*SPECIALTY ITEM

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PLT DATE = 6/15/2010	CHECKED -	REVISED -	REVISED -	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 68974			
	DATE -	REVISED -								



EXISTING TYPICAL SECTION

STA. 210+50 TO STA. 216+50
Existing 2' x 2' Box Culvert at STA. 213+25.96



PROPOSED TYPICAL SECTION

STA. 210+50 TO STA. 216+50
Existing 2' x 2' Box Culvert at STA. 213+25.96

Note:
See cross sections for
benching details.

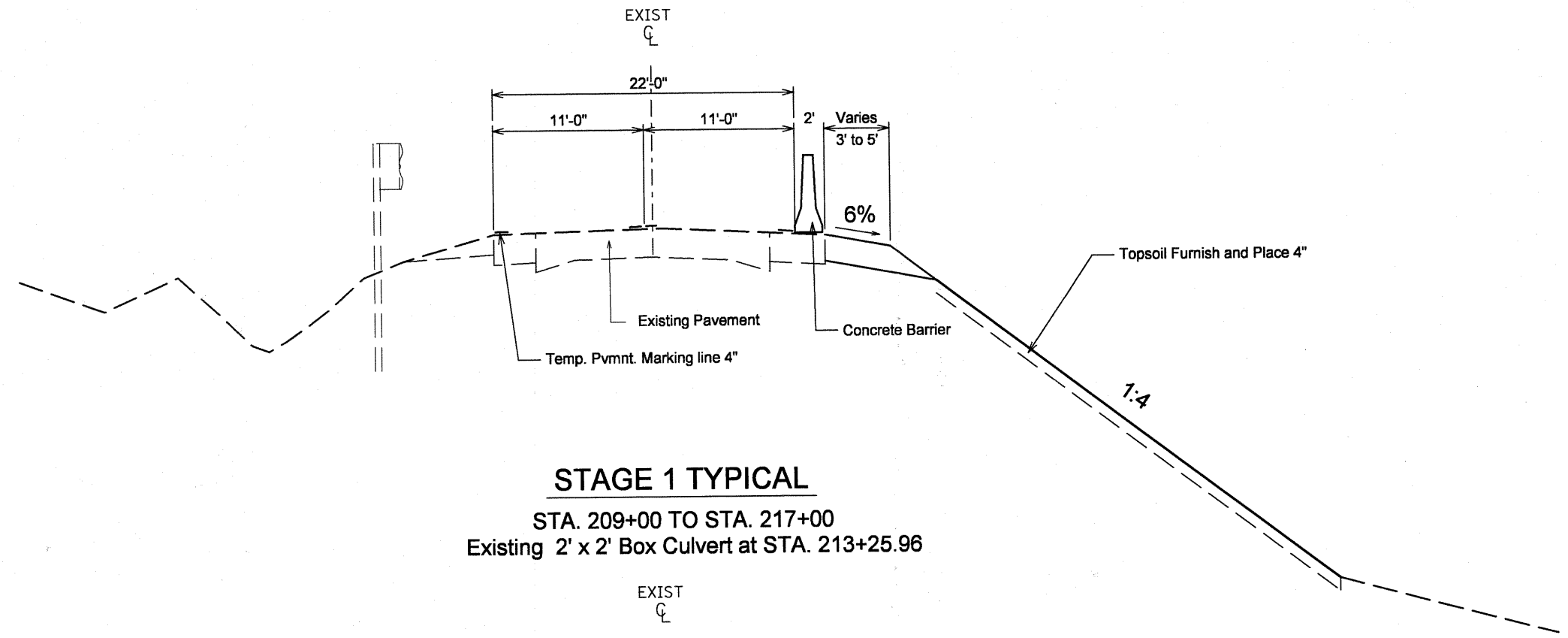
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		DRAWN -	REVISED -
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	PLOT DATE = 6/15/2010	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

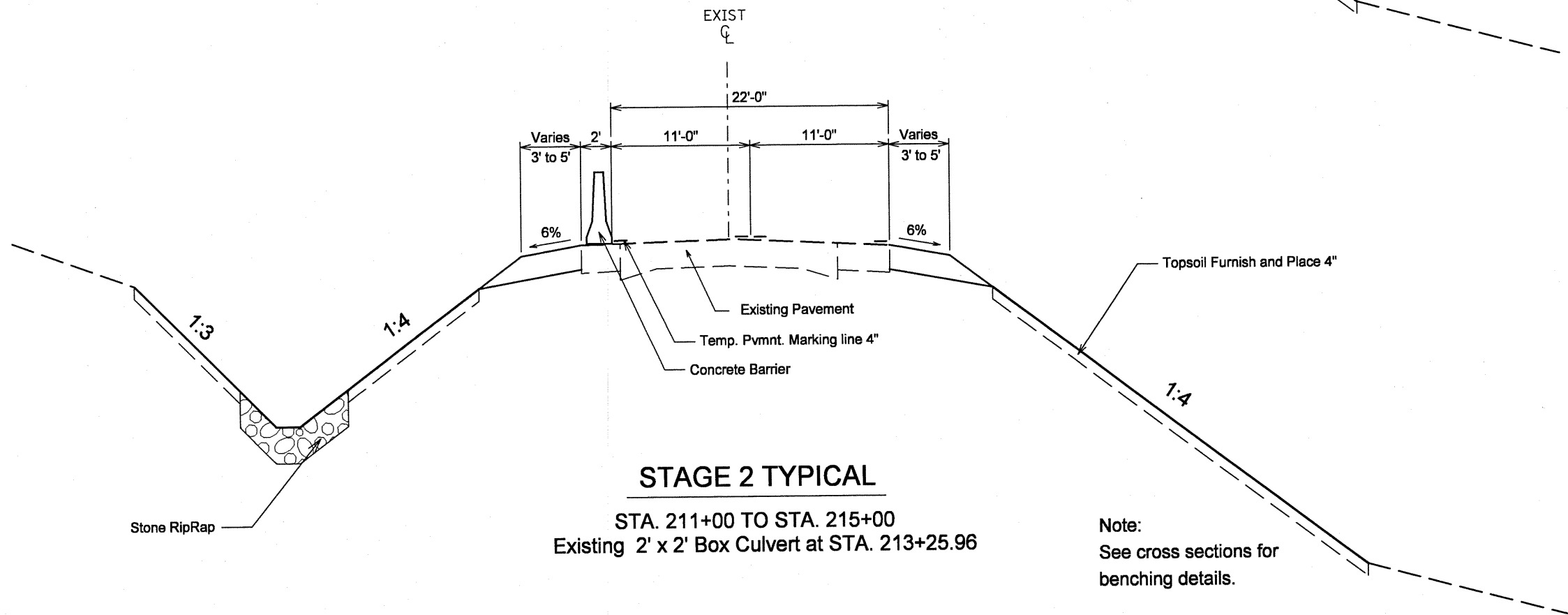
**IL RTE 41 SLOPE REPAIR
EXISTING & PROPOSED TYPICAL SECTION**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12I-1	Fulton	31	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68974	



STAGE 1 TYPICAL
 STA. 209+00 TO STA. 217+00
 Existing 2' x 2' Box Culvert at STA. 213+25.96



STAGE 2 TYPICAL
 STA. 211+00 TO STA. 215+00
 Existing 2' x 2' Box Culvert at STA. 213+25.96

Note:
 See cross sections for
 benching details.

FILE NAME = D468974-sht-typical.dgn	USER NAME = crespole	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

FLDT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
FLDT DATE = 6/15/2010	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RTE 41 SLOPE REPAIR
 STAGE TYPICAL SECTION**

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12I-1	Fulton	31	7
CONTRACT NO. 68974				
ILLINOIS FED. AID PROJECT				

TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
LOCATION	UNITS
Rt. Sta 212+36.01	10
Lt. Sta 212+99.98	12
Lt. Sta. 213+02.38	6
Lt. Sta 213+05.89	11
Lt. Sta 213+23.01	10
TOTAL = 49	

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
LOCATION	UNITS
Rt. Sta 213+20.98	37
TOTAL = 37	

TOPSOIL FURNISH AND PLACE, 4"	
LOCATION	SQ YD
Rt. Sta 211+25 to Sta 215+00	2,413
Lt. Sta 211+25 to Sta 215+00	799
TOTAL = 3,212	

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	
LOCATION	(CU YD)
Sta. 212+00 to 212+25	103.4
Sta. 212+25 to 212+50	200.6
Sta. 212+50 to 212+75	250.2
Sta. 212+75 to 213+00	265.2
Sta. 213+00 to 213+25.96	180.1
Sta. 213+25.96 to 213+50	192.3
Sta. 213+50 to 213+75	256.5
Sta. 213+75 to 214+00	301.1
Sta. 214+00 to 214+25	183.4
TOTAL = 1,933	

SCHEDULE OF EARTHWORK QUANTITIES					
LOCATION	EARTH EXCAVATION (CU YD)	EMBANKMENT (CU YD)	SHRINKAGE (25%)	EARTH WORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	FURNISHED EXCAVATION (CU YD)
Sta. 211+25 to 211+50	1.3	0	1.0	+1.0	-1.0
Sta. 211+50 to 211+75	3.0	7.4	2.3	-5.2	5.2
Sta. 211+75 to 212+00	3.1	32.5	2.3	-30.2	30.2
Sta. 212+00 to 212+25	15.6	120.3	11.7	-108.6	108.6
Sta. 212+25 to 212+50	33.6	213.4	25.2	-188.2	188.2
Sta. 212+50 to 212+75	46.5	313.6	34.9	-278.7	278.7
Sta. 212+75 to 213+00	53.2	400.1	39.9	-360.2	360.2
Sta. 213+00 to 213+25.96	127.2	414.0	95.4	-318.6	318.6
Sta. 213+25.96 to 213+50	161.6	396.9	121.2	-275.7	275.7
Sta. 213+50 to 213+75	132.1	439.1	99.1	-340.0	340.0
Sta. 213+75 to 214+00	81.0	546.3	60.8	-485.6	485.6
Sta. 214+00 to 214+25	26.4	437.8	19.8	-418.0	418.0
Sta. 214+25 to 214+50	7.2	136.1	5.4	-130.7	130.7
Sta. 214+50 to 214+75	8.4	32.7	6.3	-26.4	26.4
Sta. 214+75 to 215+00	7.1	8.3	5.3	-3.0	3.0
TOTAL =	707.30	3,498.50	530.48	-2,968.00	2,968.00

SEEDING, CLASS 3	
LOCATION	ACRE
Rt. Sta 211+25 to Sta 215+00	0.58
Lt. Sta 211+25 to Sta 215+00	0.17
TOTAL = 0.75	

PHOSPHORUS FERTILIZER NUTRIENT	
LOCATION	POUND
Rt. Sta 211+25 to Sta 215+00	45.0
Lt. Sta 211+25 to Sta 215+00	15.0
TOTAL = 60.0	

NITROGEN FERTILIZER NUTRIENT	
LOCATION	POUND
Rt. Sta 211+25 to Sta 215+00	45.0
Lt. Sta 211+25 to Sta 215+00	15.0
TOTAL = 60.0	

POTASSIUM FERTILIZER NUTRIENT	
LOCATION	POUND
Rt. Sta 211+25 to Sta 215+00	45.0
Lt. Sta 211+25 to Sta 215+00	15.0
TOTAL = 60.0	

FILE NAME = D468974-shc-schedule.dgn

USER NAME = crespole

DESIGNED -

REVISED -

PLOT SCALE = 100.0000' / IN.

DRAWN -

REVISED -

PLOT DATE = 6/15/2010

CHECKED -

REVISED -

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 41 SLOPE REPAIR
SCHEDULE OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12I-1	Fulton	31	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68974	

MULCH, METHOD 2	
LOCATION	ACRE
Rt. Sta 211+25 to Sta 215+00	0.58
Lt. Sta 211+25 to Sta 215+00	0.17
TOTAL = 0.75	

EROSION CONTROL BLANKET	
LOCATION	SQ YD
Rt. Sta 211+25 to Sta 215+00	2,385
Lt. Sta 211+25 to Sta 215+00	608
TOTAL = 2,993	

TEMPORARY EROSION CONTROL SEEDING	
LOCATION	POUND
Rt. Sta 211+25 to Sta 215+00	107.00
Lt. Sta 211+25 to Sta 215+00	33.00
TOTAL = 140.0	

Note: 2 Applications

TEMPORARY DITCH CHECKS	
LOCATION	FOOT
Lt. Sta. 212+77.41	10
Lt. Sta 213+06.80	15
Lt. Sta. 213+51.31	12
Lt. Sta 213+79.08	12
TOTAL = 49	

PERIMETER EROSION BARRIER	
LOCATION	FOOT
Rt. Sta. 211+38.68 to Sta. 215+05.88	473
TOTAL = 473	

INLET AND PIPE PROTECTION	
LOCATION	EACH
Lt. Sta. 213+20.68	1
Rt. Sta 213+34.85	1
TOTAL = 2	

STONE RIPRAP, CLASS A3	
LOCATION	SQ YD
Rt. Sta. 212+25	30
Rt. Sta. 212+27.4 to Sta. 213+34.2	165
Rt. Sta. 212+44.2 to Sta. 214+05.3	128
TOTAL = 323	

STONE RIPRAP, CLASS A4	
LOCATION	SQ YD
Lt. Sta. 213+20.68	11
Rt. Sta 213+34.85	28
TOTAL = 39	

STONE RIPRAP, CLASS B3	
LOCATION	SQ YD
Lt. Sta. 212+50 to Sta. 213+15.03	84
Lt. Sta. 213+24.38 to Sta. 214+06.66	96
TOTAL = 180	

FILTER FABRIC	
LOCATION	SQ YD
Lt. Sta. 213+20.68	11
Rt. Sta 212+25.00	43
Rt. Sta 213+34.85	28
TOTAL = 82	

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	
LOCATION	SQ YD
Rt. Sta. 212+00.00 to Sta. 214+00.00	863
TOTAL = 863	

AGGREGATE SHOULDERS, TYPE B	
LOCATION	TON
Lt. Sta. 212+00 to Sta. 214+50	64
Rt. Sta 211+50 to Sta. 215+00	89
TOTAL = 153	

CONCRETE HEADWALL REMOVAL	
LOCATION	EACH
Lt. Sta. 212+82.1	1
Lt. Sta. 213+26.08	1
TOTAL = 2	

PIPE CULVERT REMOVAL	
LOCATION	FOOT
Lt. Sta. 212+81.72 to Sta. 213+23.75 , 12" Dia. (CMP)	43
Lt. Sta. 213+25.96 (CMP)	10
TOTAL = 53	

PIPE CULVERTS, CLASS A, TYPE 2, 30"	
LOCATION	FOOT
Lt. Sta. 213+25.96	22
TOTAL = 22	

PIPE CULVERTS, CLASS A, TYPE 2, 36"	
LOCATION	FOOT
Rt. Sta. 213+25.96	29
TOTAL = 29	

FILE NAME = D468974-sht-schedule.dgn

USER NAME = crespole
 PLOT SCALE = 1/8" = 100.0000' / IN.
 PLOT DATE = 6/15/2010

DESIGNED - ___
 DRAWN - ___
 CHECKED - ___
 DATE - ___

REVISED - ___
 REVISED - ___
 REVISED - ___
 REVISED - ___

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL RTE 41 SLOPE REPAIR
 SCHEDULE OF QUANTITIES

SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12I-1	Fulton	31	9

CONTRACT NO. 68974
 ILLINOIS FED. AID PROJECT

PRECAST REINFORCED CONCRETE FLARED END SECTION, 30"	
LOCATION	EACH
Lt. Sta. 213+25.96	1
TOTAL = 1	

PRECAST REINFORCED CONCRETE FLARED END SECTION, 36"	
LOCATION	EACH
Rt. Sta. 213+34.85	1
TOTAL = 1	

CONCRETE COLLAR	
LOCATION	CU YD
Lt. Sta. 213+25.96	0.8
Rt. Sta. 213+25.96	0.7
TOTAL = 1.5	

REINFORCEMENT BARS	
LOCATION	POUNDS
Lt. Sta. 213+25.96	30
Rt. Sta. 213+25.96	30
TOTAL = 60	

ANCHOR BOLTS, 3/4 "	
LOCATION	EACH
Lt. Sta. 213+25.96	8
Rt. Sta. 213+25.96	8
TOTAL = 16	

FRENCH DRAINS	
LOCATION	CU YD
RT. STA. 212+25	33.5
TOTAL =33.5	

CONCRETE HEADWALL FOR PIPE DRAINS	
LOCATION	EACH
Rt. Sta. 214+00	1
Rt. Sta. 214+25	1
Rt. Sta. 214+50	1
Rt. Sta. 214+75	1
TOTAL = 4	

PIPE DRAINS 4"	
LOCATION	FOOT
Rt. Sta. 214+00	58
Rt. Sta. 214+25	47
Rt. Sta. 214+50	30
Rt. Sta. 214+75	42
TOTAL = 177	

BACKSLOPE DRAINS, TYPE 2, 4"	
LOCATION	FOOT
Rt. Sta. 212+25 TO 214+75	250
Rt. Sta. 212+25 TO 214+50	225
Rt. Sta. 212+50 TO 214+25	175
Rt. Sta. 212+75 TO 214+00	125
TOTAL = 775	

GUARDRAIL REMOVAL	
LOCATION	FOOT
Lt. Sta. 212+50 to Sta. 214+50	200
TOTAL = 200	

MOBILIZATION	
LOCATION	L. SUM
Jobsite	1
TOTAL = 1	

FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	EACH
Rt. Sta. 211+30, 30ft	1
Rt. Sta. 213+00, 150 ft	1
Rt. Sta. 215+00, 150 ft	1
Rt. Sta. 216+00, 30 ft	1
TOTAL = 4	

TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	
LOCATION	L. SUM
Jobsite	1
TOTAL = 1	

TEMPORARY PAVEMENT MARKING LINE 4"		
LOCATION	FOOT	
	EDGE (WHITE)	CENTERLINE (DOUBLE YELLOW)
Rt. Sta. 209+00 - 217+00	800	
Lt. Sta. 209+00 - 217+00	800	
Sta. 209+00 - 217+00		1,600
STAGE 2		
Rt. Sta. 211+00 - 215+00	400	
Lt. Sta. 211+00 - 215+00	400	
Sta. 211+00 - 215+00		800
TOTAL = 4,800		

PAINT PAVEMENT MARKING -LINE 4"		
LOCATION	FOOT	
	EDGE (WHITE)	CENTERLINE (SKIP DASH)
Rt. Sta. 209+00 - 217+00	800	
Lt. Sta. 209+00 - 217+00	800	
Sta. 209+00 - 217+00		200
TOTAL = 1,800		

FILE NAME =
D468974-sht-schedule.dgn

USER NAME = crespole

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 41 SLOPE REPAIR
SCHEDULE OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12I-1	Fulton	31	10
			CONTRACT NO. 68974	
ILLINOIS FED. AID PROJECT				

WORK ZONE PAVEMENT MARKING REMOVAL		
LOCATION	SQ FT	
EXISTING	EDGE (WHITE)	CENTERLINE (SKIP DASH)
Rt. Sta. 209+00 - 217+00	264	
Lt. Sta. 209+00 - 217+00	264	
Sta. 209+00 - 217+00		132
STAGE 1	EDGE (WHITE)	CENTERLINE (DOUBLE YELLOW)
Rt. Sta. 209+00 - 217+00	264	
Lt. Sta. 209+00 - 217+00	264	
Sta. 209+00 - 217+00		528
STAGE 2		
Rt. Sta. 211+00 - 215+00	132	
Lt. Sta. 211+00 - 215+00	132	
Sta. 211+00 - 215+00		264
TOTAL = 2,244		

FENCE REMOVAL	
LOCATION	FOOT
Rt. Sta. 211+00 to Sta. 212+48	147
Rt. Sta. 212+48	10
Rt. Sta. 212+48 to Sta. 213.95.74	145
Rt. Sta. 213+95.74	13
Rt. Sta. 213+95.74 to Sta. 216+00	205
TOTAL = 520	

ROCK FILL	
LOCATION	TON
Rt. Sta. 212+25 to 214+00	828
TOTAL = 828	

IMPACT ATTENUATOR, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	
LOCATION	EACH
Lt. Sta. 211+75	1
Lt. Sta. 214+79	1
TOTAL = 2	

TEMPORARY CONCRETE BARRIER	
LOCATION	FOOT
Rt. Sta. 211+25 to 215+25	400
TOTAL = 400	

IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE NARROW), TEST LEVEL 3	
LOCATION	EACH
Rt. Sta. 211+25	1
Rt. Sta. 215+30	1
TOTAL = 2	

RELOCATE TEMPORARY CONCRETE BARRIER	
LOCATION	FOOT
Lt. Sta. 211+75 to 214+75	300
TOTAL = 300	

CONSTRUCTION LAYOUT	
LOCATION	L. SUM
Jobsite	1
TOTAL = 1	

FILE NAME =
D468974-sh-t-schedule.dgn

USER NAME = crespole

DESIGNED -

REVISED -

DRAWN -

REVISED -

CHECKED -

REVISED -

DATE -

REVISED -

PLOT SCALE = 1/8" = 100.0000' / IN.

PLOT DATE = 6/21/2010

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 41 SLOPE REPAIR
SCHEDULE OF QUANTITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12I-1	Fulton	31	11
CONTRACT NO. 68974				

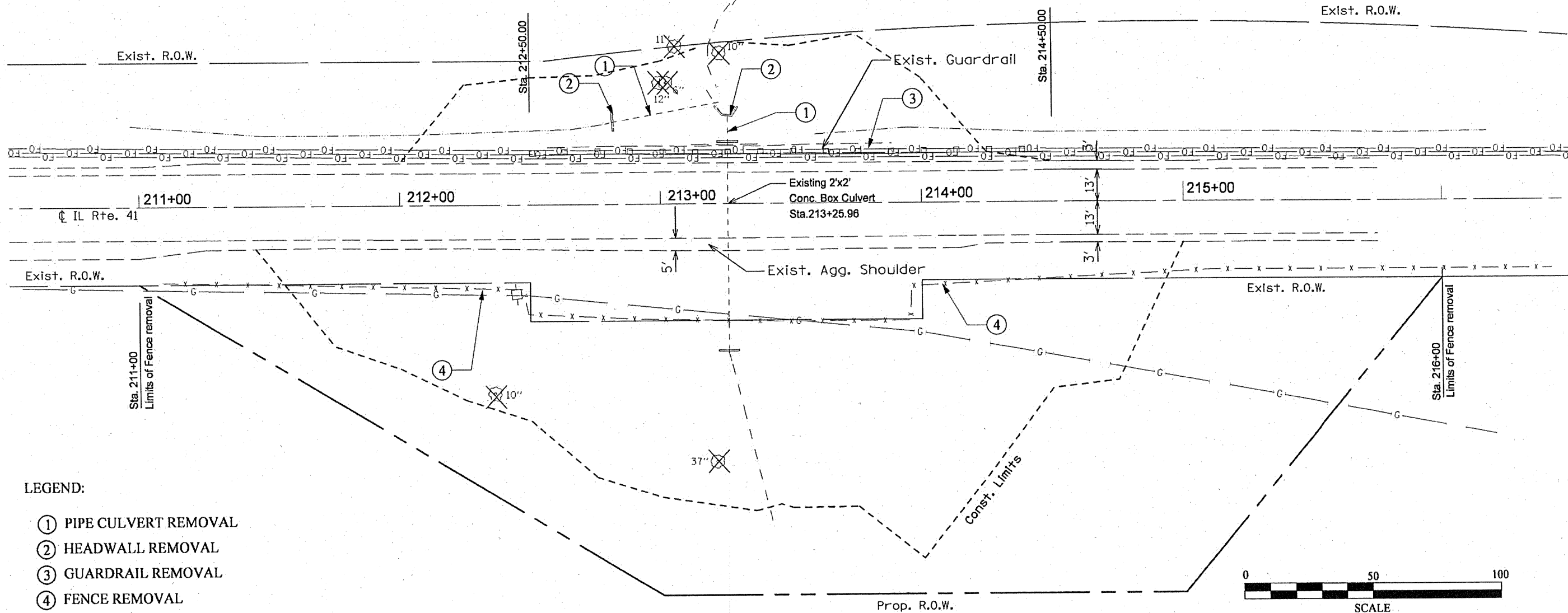
ILLINOIS FED. AID PROJECT

RAILROAD



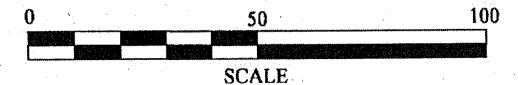
TRANSVERSE STATION
209+95.82, 18.6684 ft, Rt.
X=2224131.0232, Y= 1461419.7247
Elevation = 601.9935

VERTICAL CONTROL STATION
213+26,CL
X= 2224149.4019, Y=1461748.0738
Elevation = 599.6769

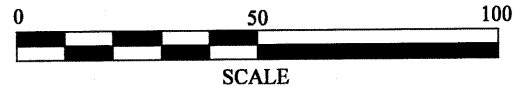
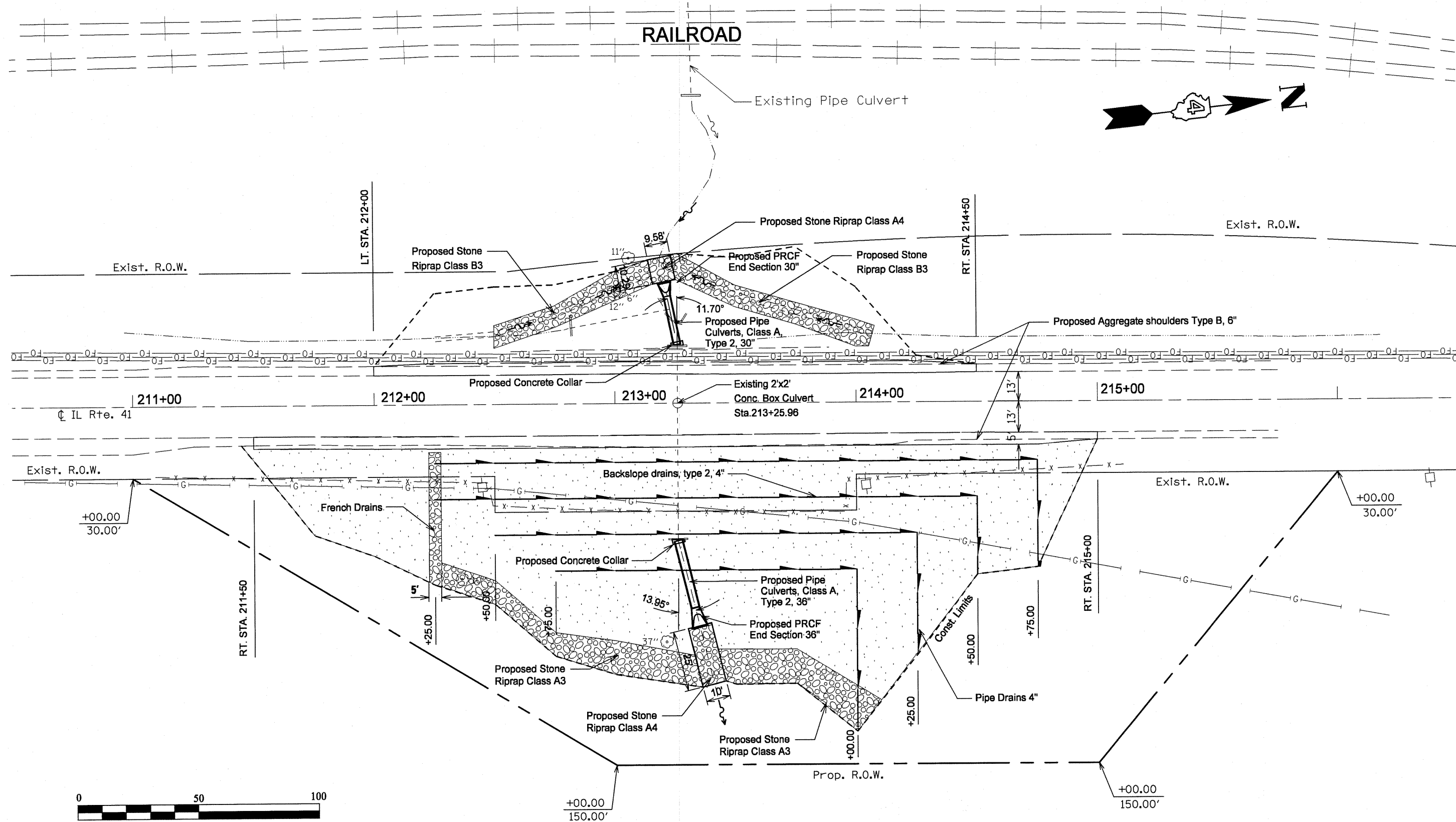


LEGEND:

- ① PIPE CULVERT REMOVAL
- ② HEADWALL REMOVAL
- ③ GUARDRAIL REMOVAL
- ④ FENCE REMOVAL
- ⊗ TREE REMOVAL



FILE NAME = D468974-SHT-EXIST.dgn	USER NAME = crespole	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 41 SLOPE REPAIR EXISTING AND REMOVAL PLANS			F.A.P. RTE. 574	SECTION 121-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 12
	PLDT SCALE = 40.8200' / IN.	CHECKED -	REVISED -					CONTRACT NO. 68974				
	PLDT DATE = 7/15/2018	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.					



FILE NAME =
D468974-SHT-PLAN1.dgn

USER NAME = crespole
DESIGNED -
DRAWN -
PLOT SCALE = 48.0000' / IN.
PLOT DATE = 6/15/2010

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

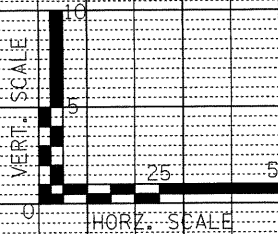
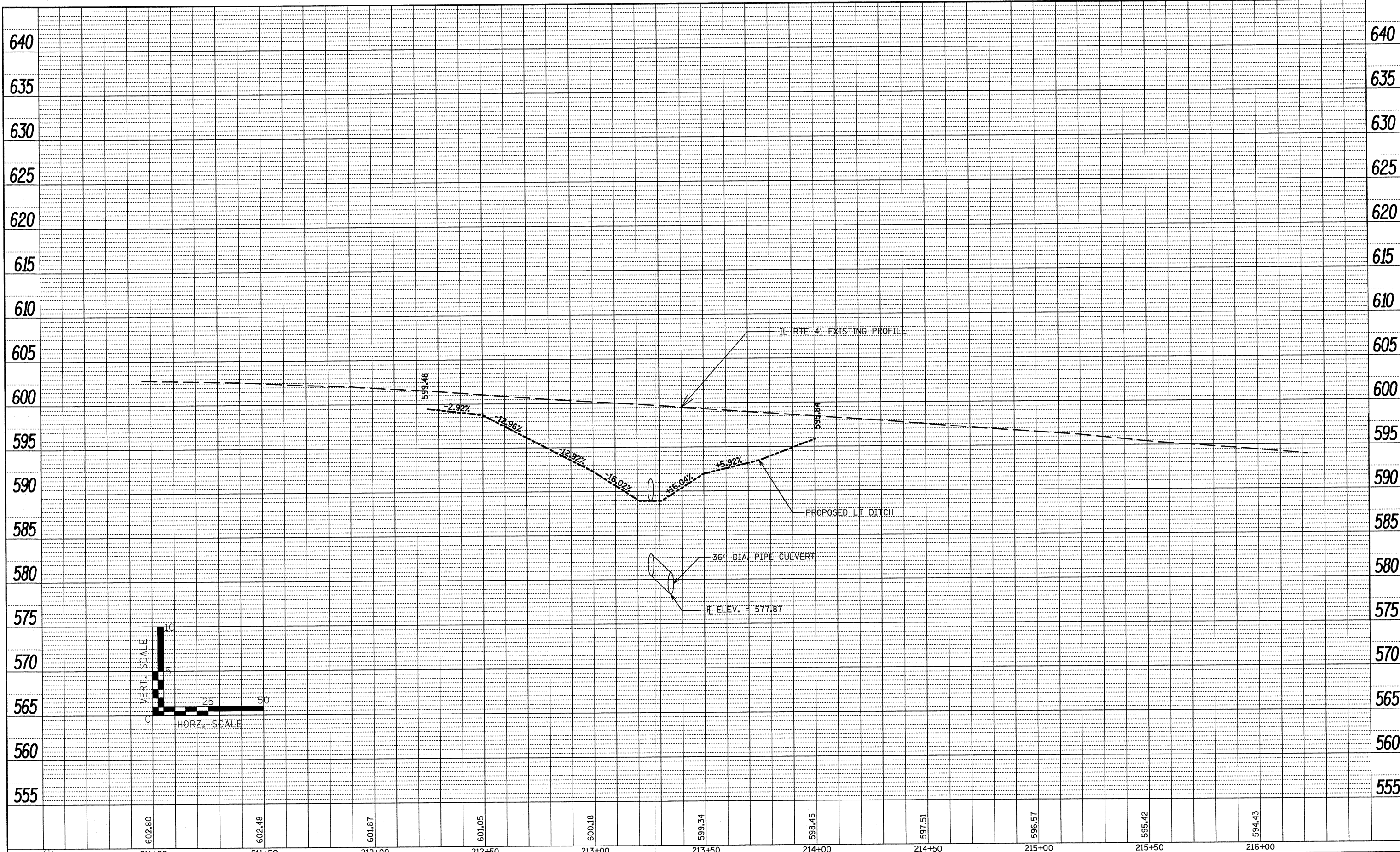
**IL RTE 41 SLOPE REPAIR
PROPOSED PLANS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 574	SECTION 121-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 13
CONTRACT NO. 68974				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK NO.		
	FILE NAME		



IL41EXCL
21050.000000

FILE NAME =
D468974-SHT-PROF2.dgn

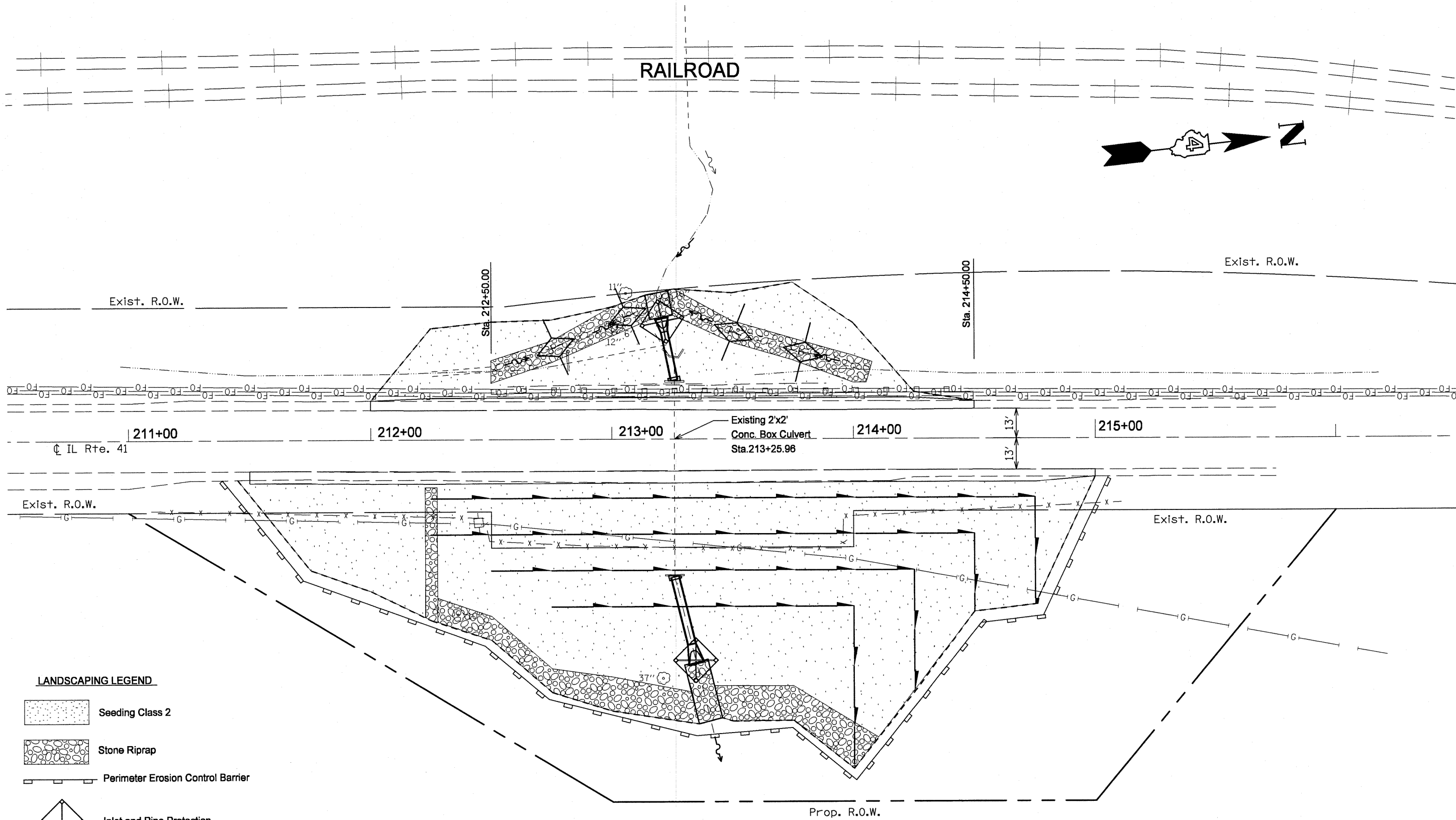
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PLLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -
PLLOT DATE = 6/15/2010	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

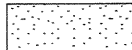

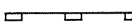
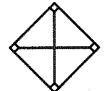

**IL RTE 41 SLOPE REPAIR
PROPOSED DITCH PROFILE**

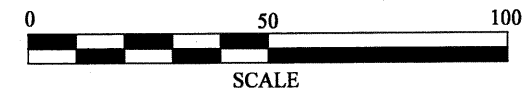
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 574	SECTION 121-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 14
CONTRACT NO. 68974			ILLINOIS FED. AID PROJECT	



LANDSCAPING LEGEND

-  Seeding Class 2
-  Stone Riprap
-  Perimeter Erosion Control Barrier
-  Inlet and Pipe Protection
-  Temporary Ditch Checks



FILE NAME =
D468974-sht-eros.dgn

USER NAME = crespole
 FLDT SCALE = 48.0000' / IN.
 FLDT DATE = 6/15/2010

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

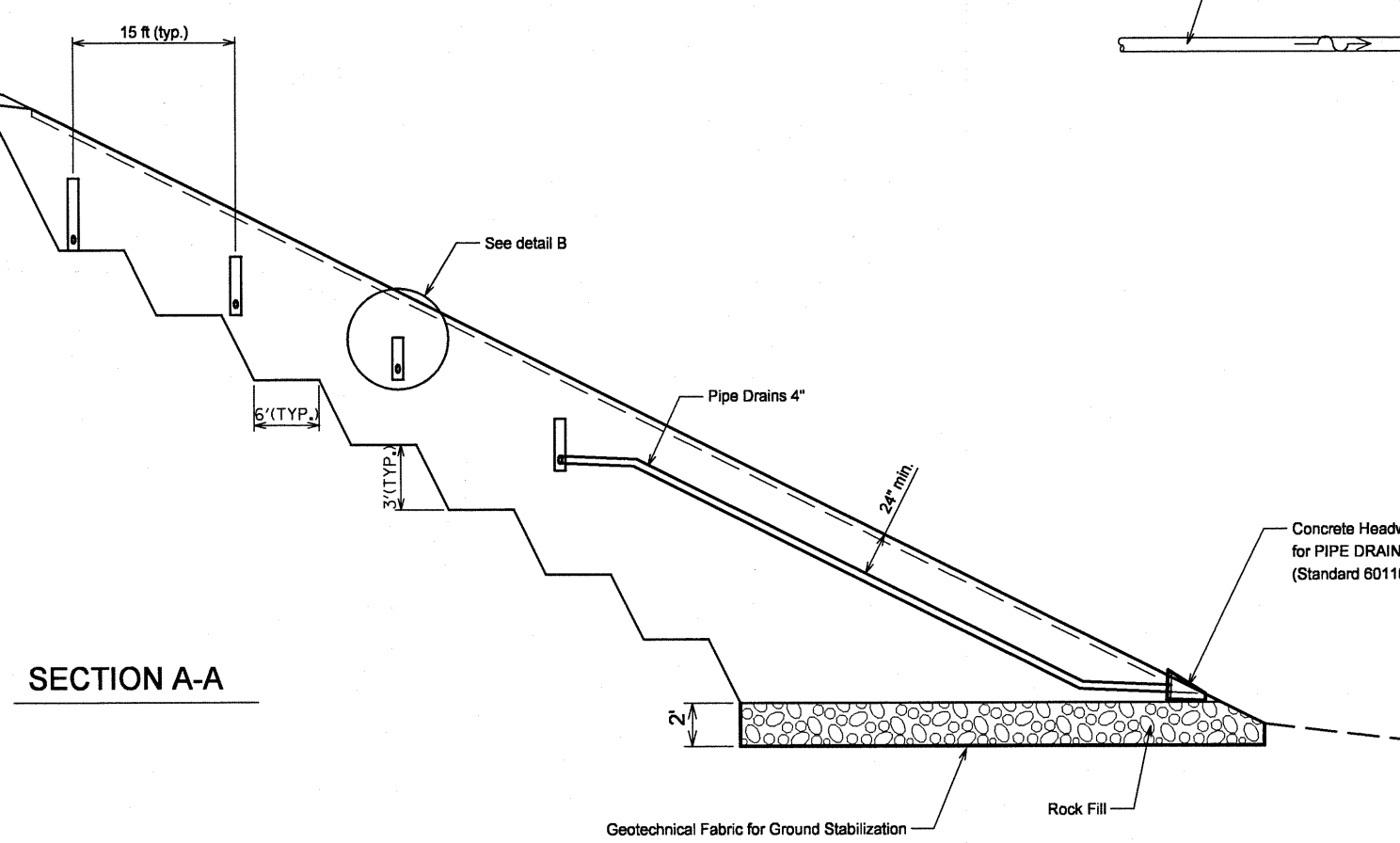
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RTE 41 SLOPE REPAIR
 LANDSCAPING & EROSION CONTROL PLANS**

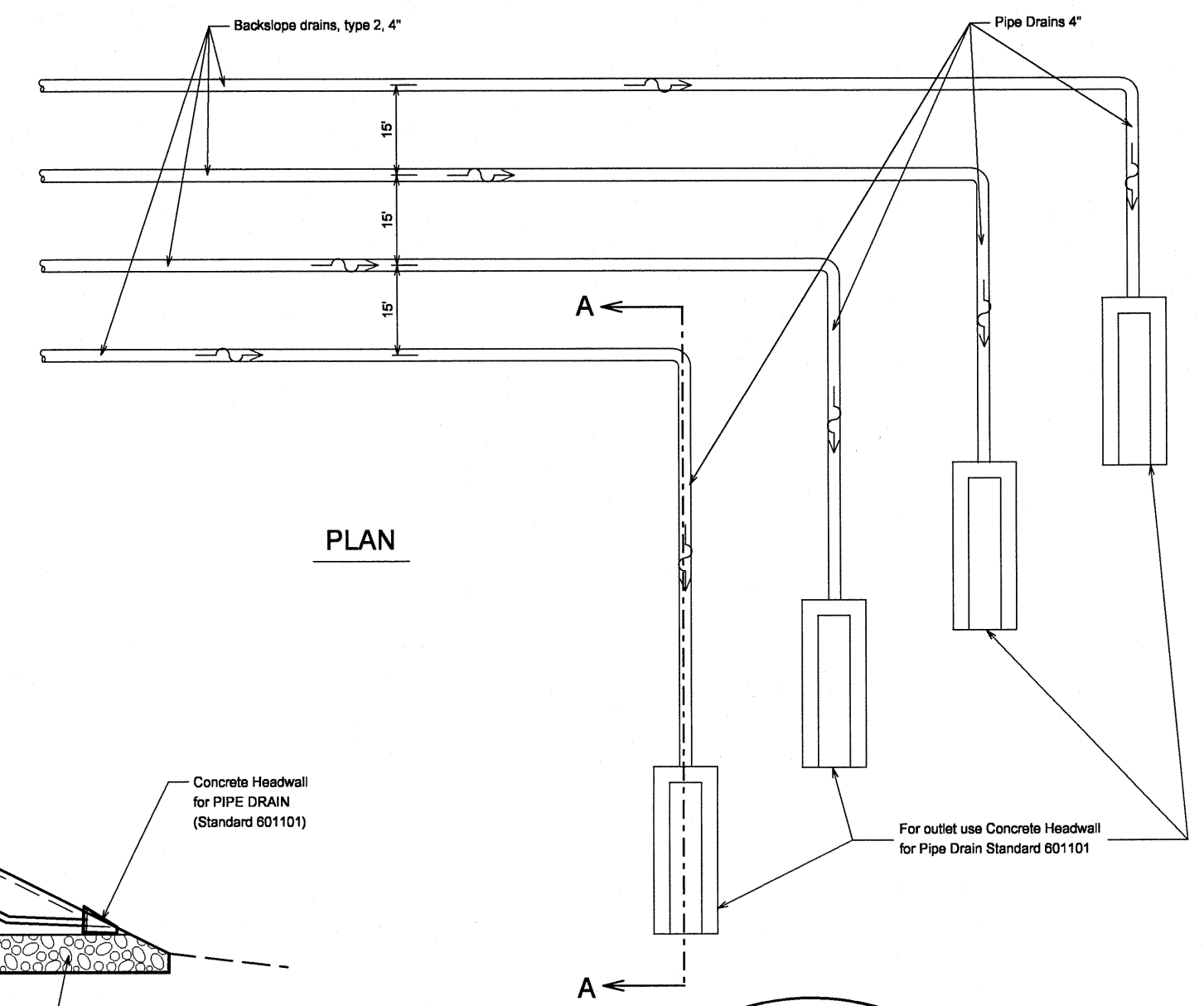
SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12-1	Fulton	31	15
				CONTRACT NO. 68974
ILLINOIS FED. AID PROJECT				

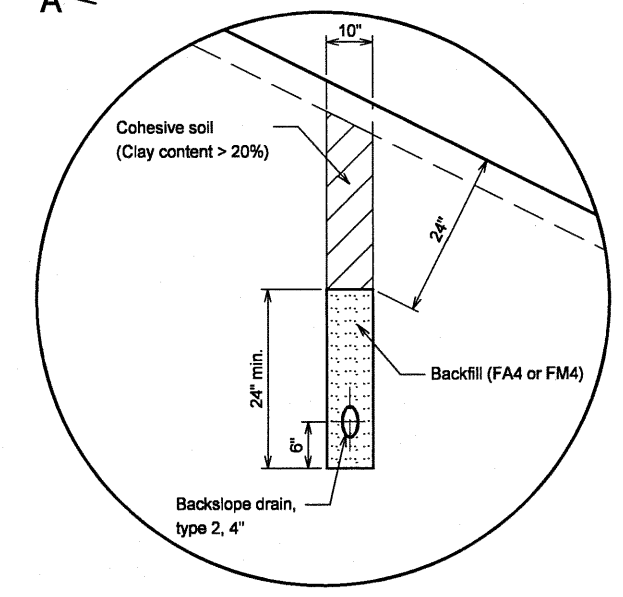
EXIST
CL



SECTION A-A



PLAN



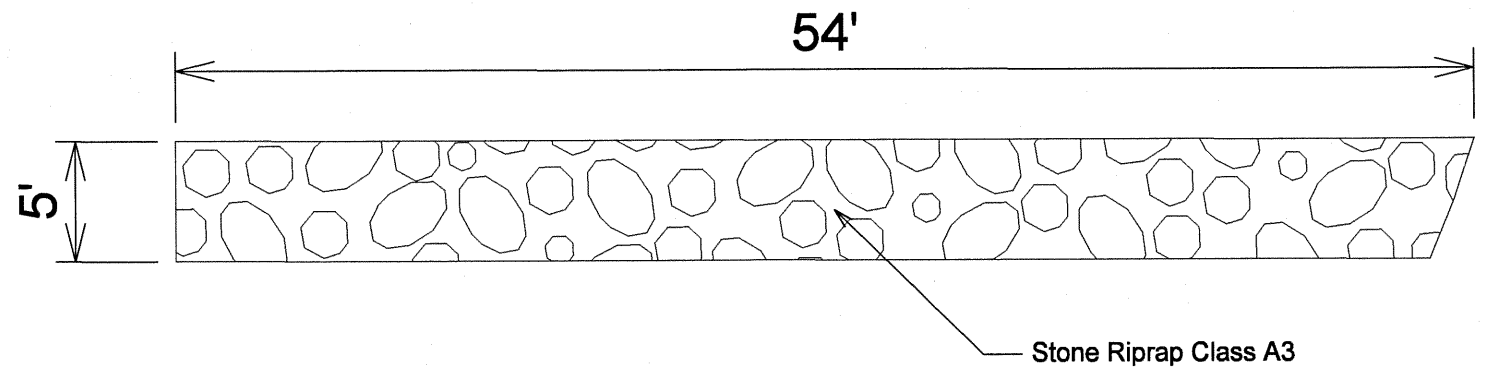
DETAIL "B"

GENERAL NOTES:

1. The District Geotechnical Engineer will determine the Backslope Drain design, after the backslope has been constructed.
2. This work shall be done in accordance with the applicable portion of articles 601 and 207 of the Standard Specifications and the District Special Provision for "Pipe Underdrain".

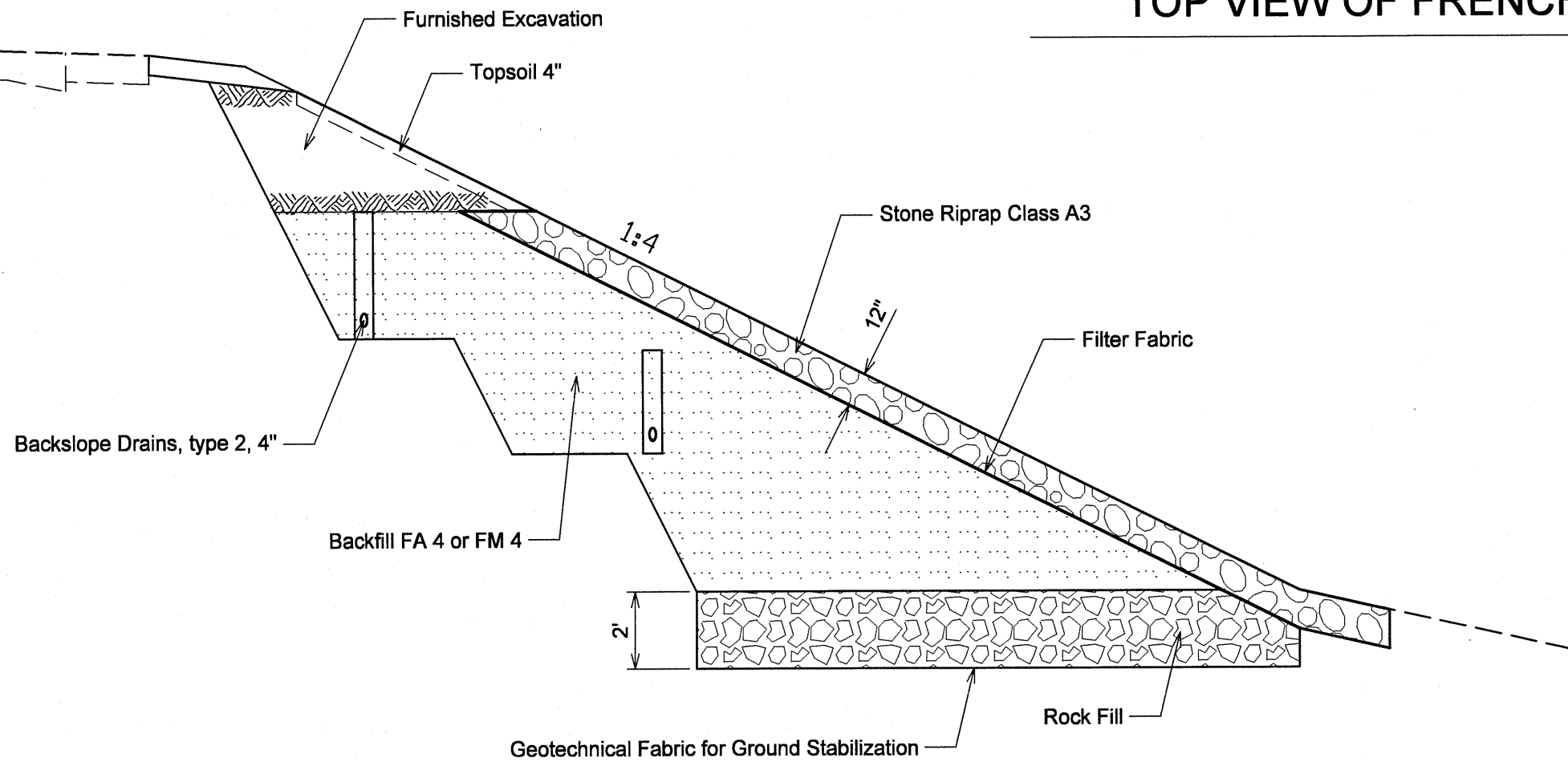
FILE NAME = D468974-SHT-DETAILS.DGN	USER NAME = crespole	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 41 SLOPE REPAIR BACKSLOPE DRAIN DETAIL		F.A.P. RTE. 574	SECTION 12E-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 16	
	PLOT SCALE = 48,0000' / IN.	DRAWN - _____	REVISED - _____		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 68974				
	PLOT DATE = 6/15/2010	CHECKED - _____	REVISED - _____		ILLINOIS FED. AID PROJECT							
		DATE - _____	REVISED - _____									

EXIST
CL



TOP VIEW OF FRENCH DRAIN

NTS



ELEVATION VIEW OF FRENCH DRAIN

NTS

FILE NAME =
D468974-SHT-DETAILS.DGN

USER NAME = crespole

DESIGNED -

REVISED -

DRAWN -

REVISED -

PLOT SCALE = 48.0000' / IN.

CHECKED -

REVISED -

PLOT DATE = 6/15/2010

DATE -

REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

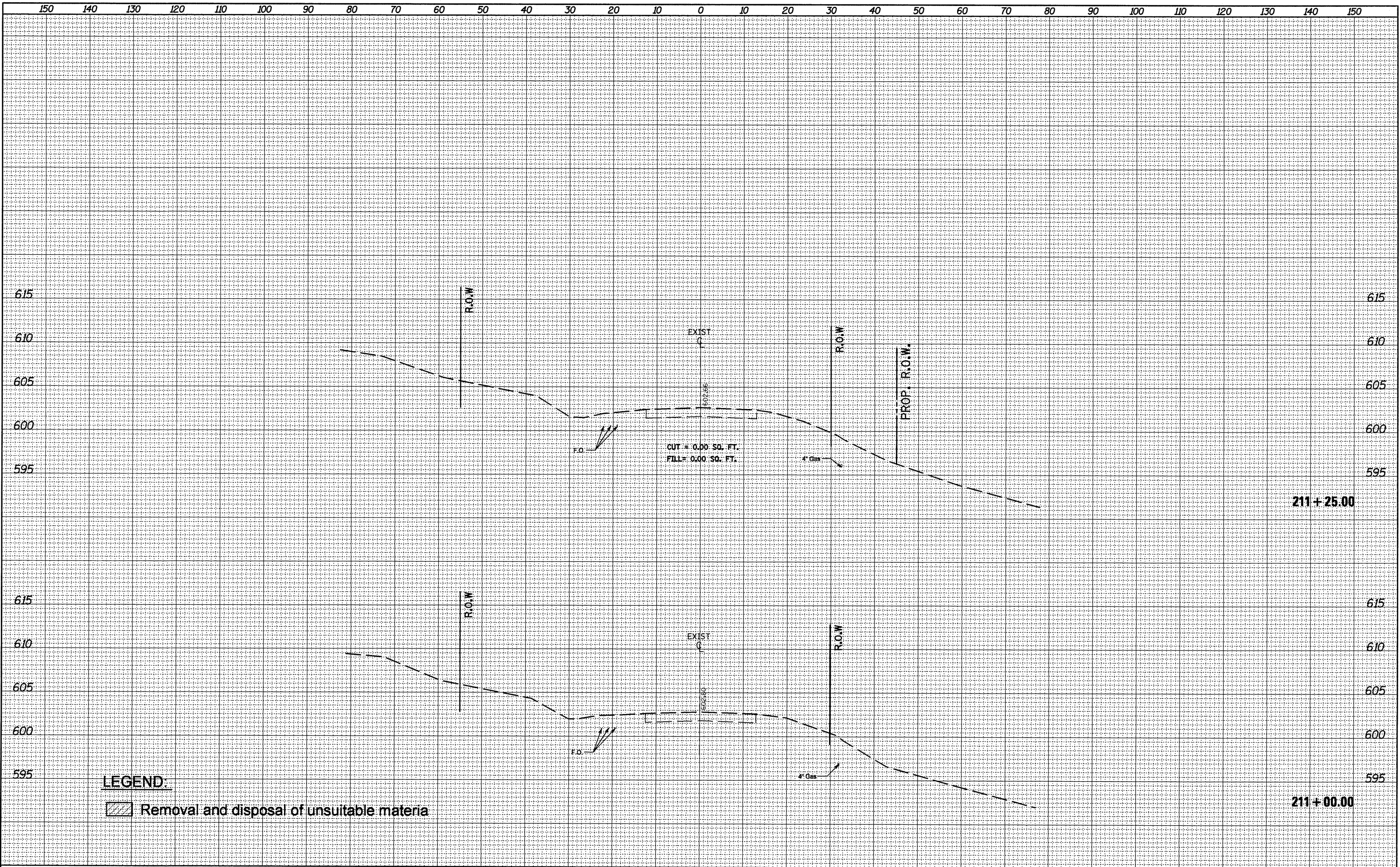
**IL RTE 41 SLOPE REPAIR
FRENCH DRAIN DETAIL**

SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12E-1	Fulton	31	17
				CONTRACT NO. 68974
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK NO.	
TEMPLATES	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK NO.	
TEMPLATES	
AREAS CHECKED	



LEGEND:

Removal and disposal of unsuitable materia

FILE NAME =
D468974-sht-xssht.dgn

USER NAME = crespole	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 6/15/2010	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

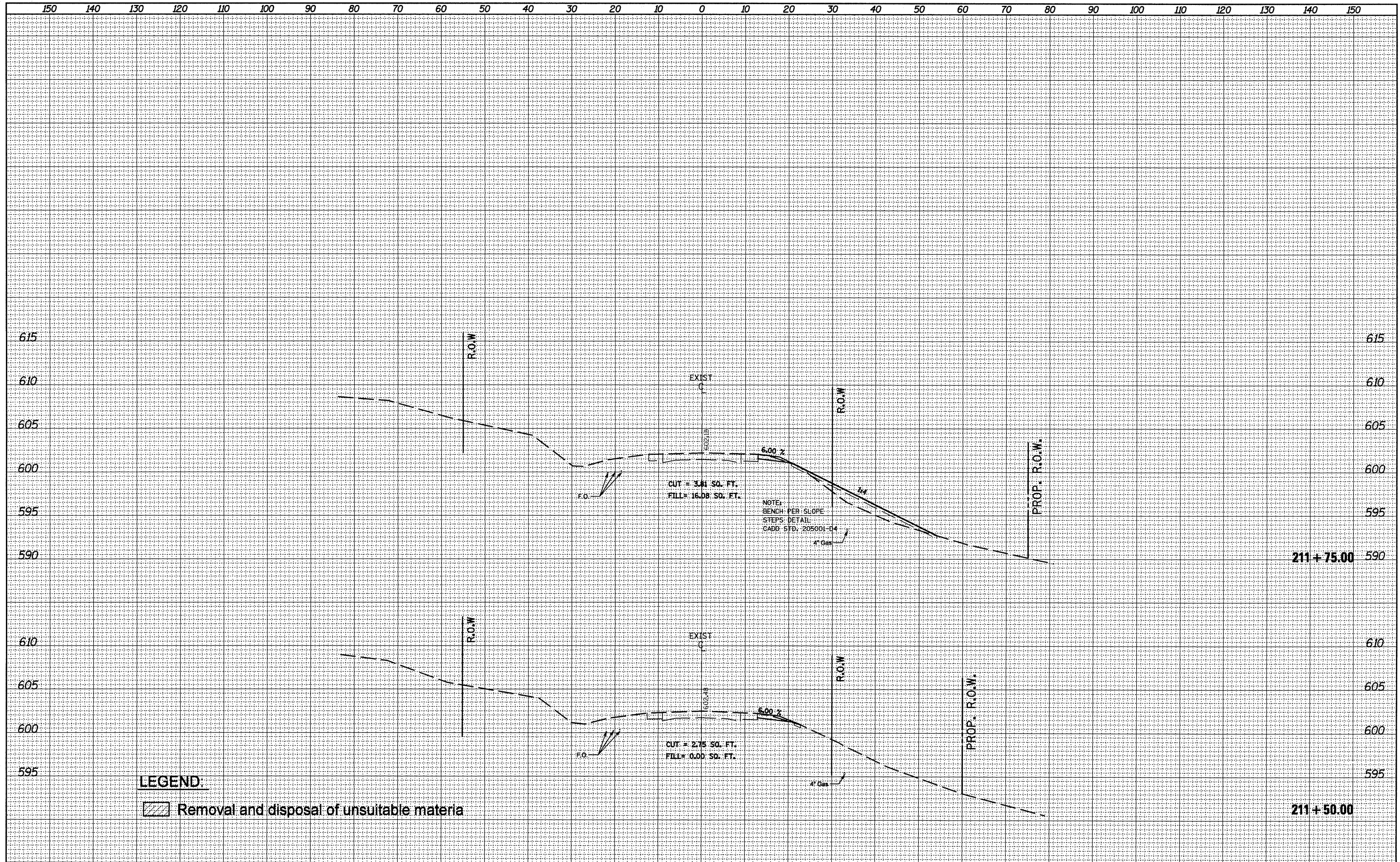
**IL RTE 41 SLOPE REPAIR
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 211+00.00 TO STA. 211+25.00

F.A.P. RTE. 574	SECTION 12I-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 18
			CONTRACT NO. 68974	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
REVIEWED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY	DATE
REVIEWED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



LEGEND

Removal and disposal of unsuitable materia

FILE NAME =
D468974-sht-ssht.dgn

USER NAME = crespole	DESIGNED -	REVISED -
PLLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLLOT DATE = 6/15/2010	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

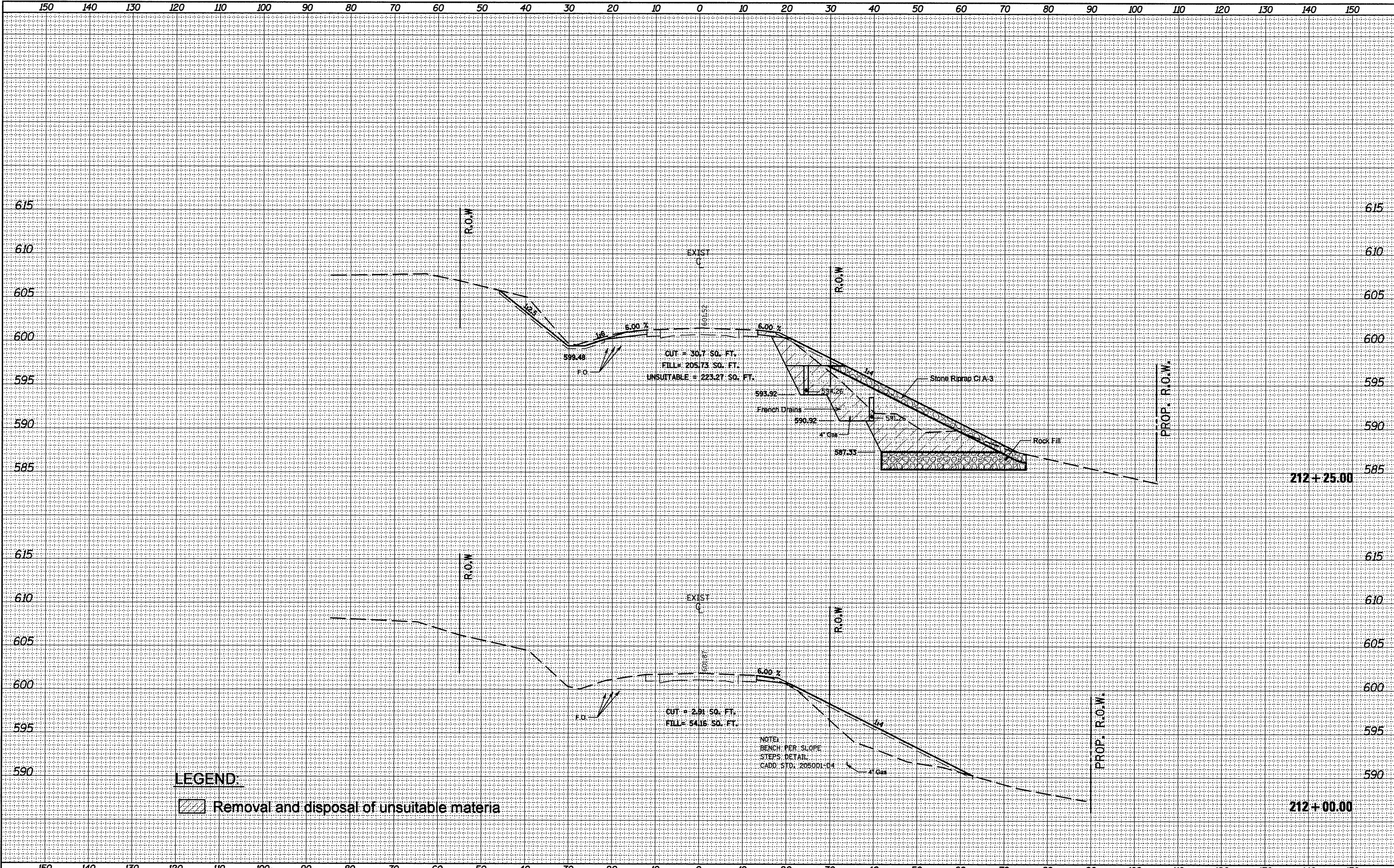
**IL RTE 41 SLOPE REPAIR
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 211+50.00 TO STA. 211+75.00

F.A.P. RTE. 574	SECTION 121-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 19
CONTRACT NO. 68974				ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



LEGEND:
 Removal and disposal of unsuitable materia

FILE NAME = 0468974-sht-xasht.dgn

USER NAME = crespole	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 6/15/2010	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

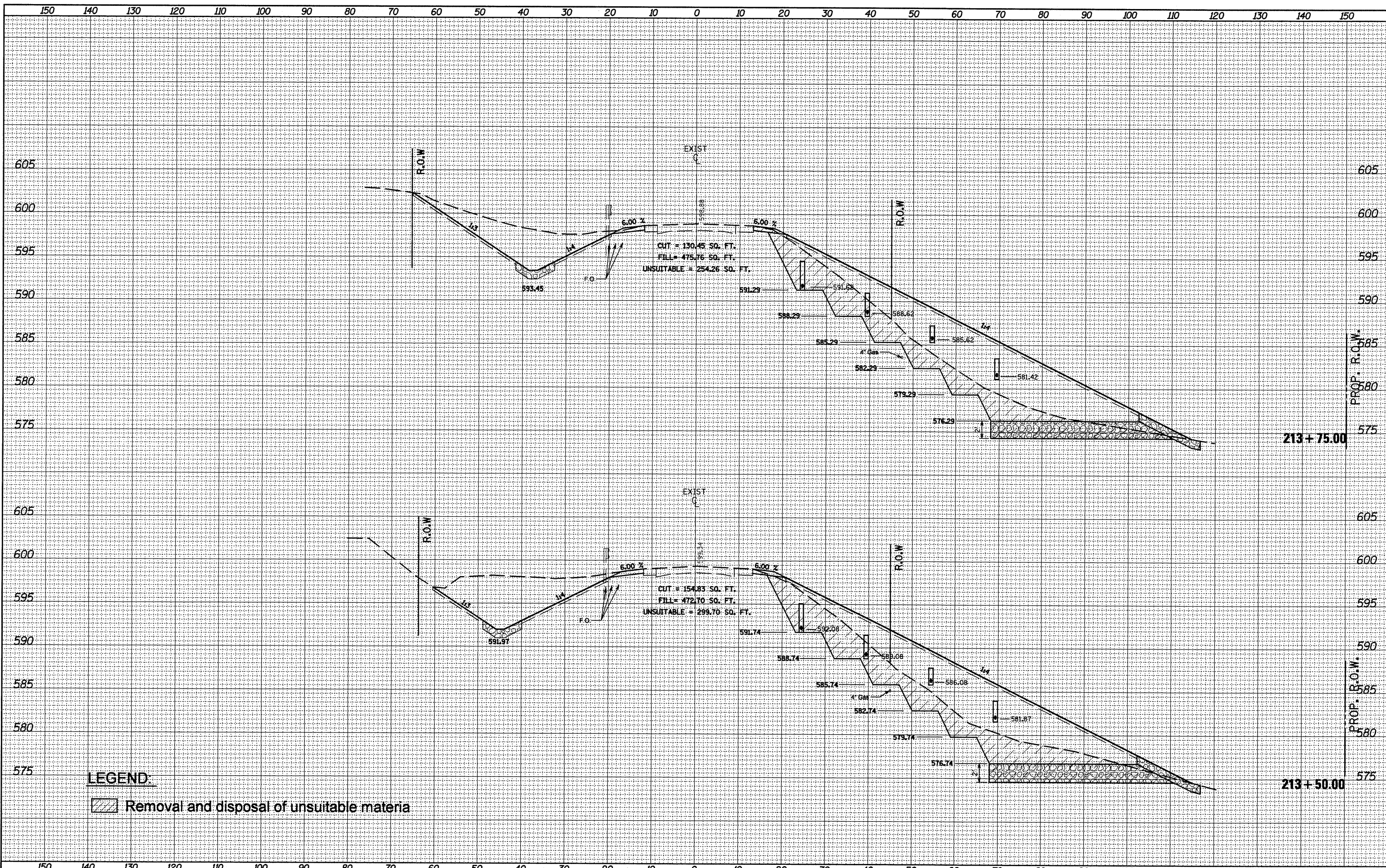
**IL RTE 41 SLOPE REPAIR
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 212+00.00 TO STA. 212+25.00

F.A.P. RTE. 574	SECTION 12I-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 20
CONTRACT NO. 68974				ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

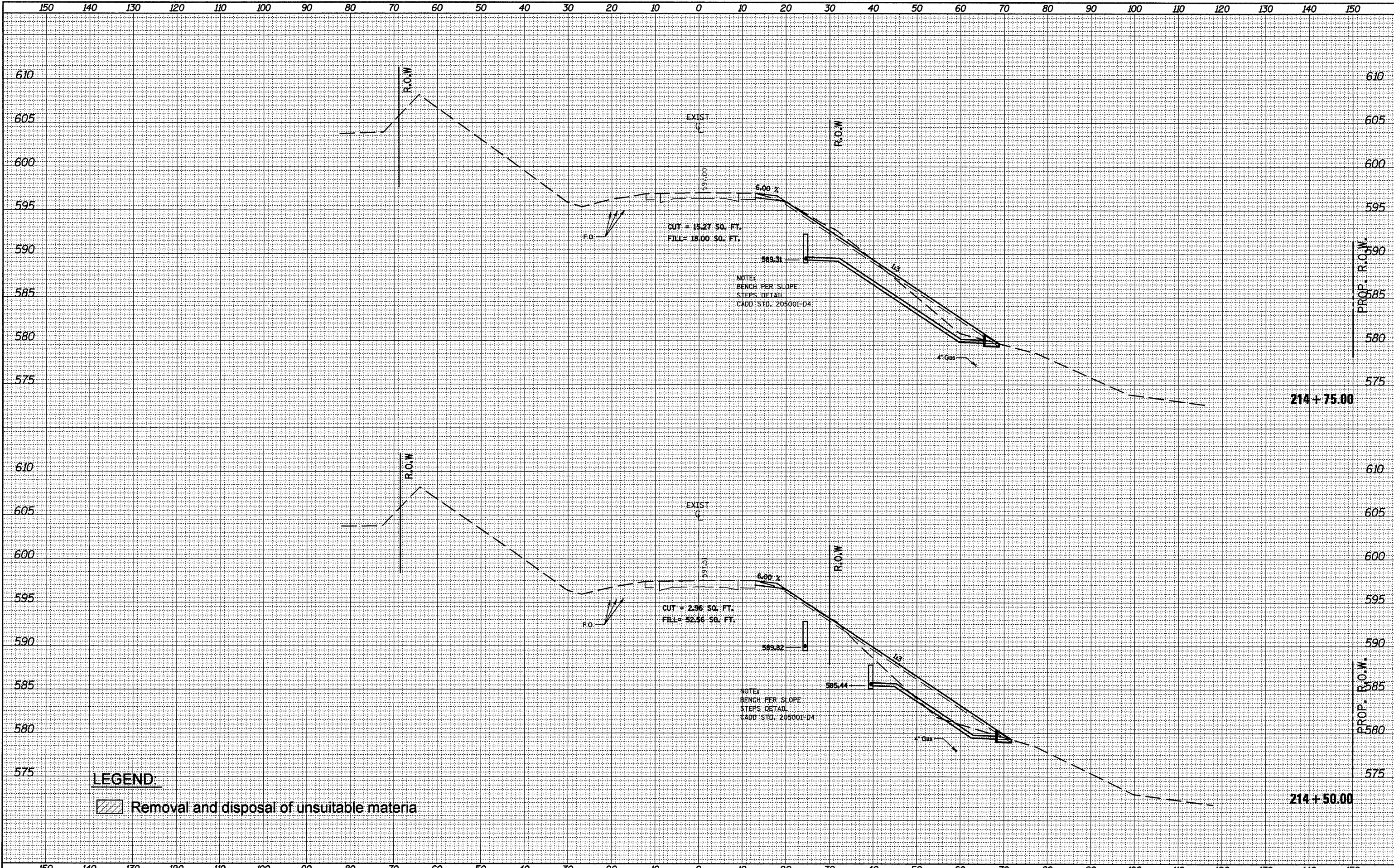
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME = D468974-sht-xasht.dgn	USER NAME = crespole	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 41 SLOPE REPAIR CROSS SECTIONS	F.A.P. RTE. 574	SECTION 121-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 23	
	PLOT SCALE = 28.0000' / IN.	CHECKED -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. 213+50.00 TO STA. 213+75.00		CONTRACT NO. 68974	
	PLOT DATE = 6/15/2010	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



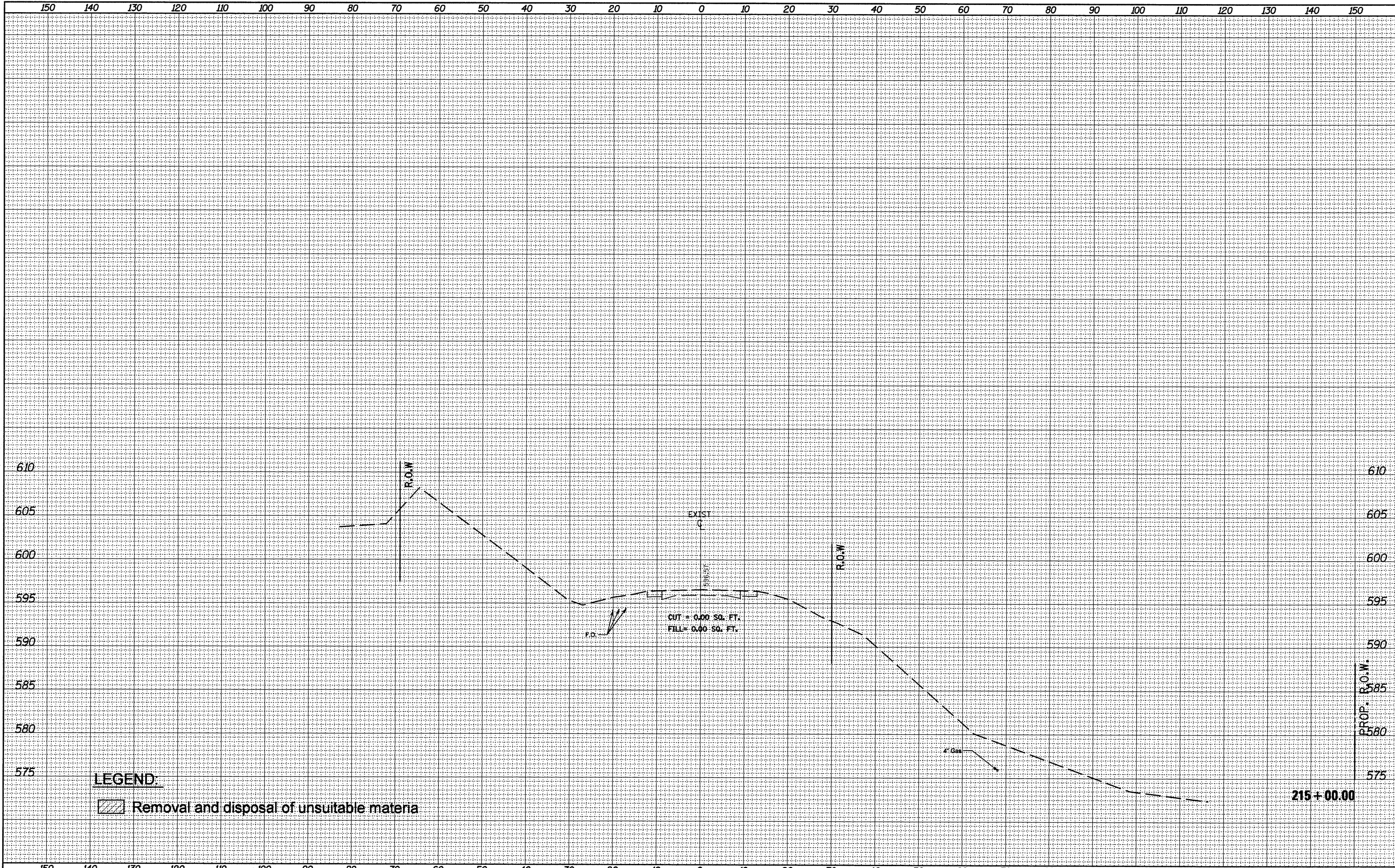
LEGEND

Removal and disposal of unsuitable material

FILE NAME = 0468974-sht-ssht.dgn	USER NAME = crespole	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 41 SLOPE REPAIR CROSS SECTIONS	F.A.P. RTE. 574	SECTION 12I-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 25		
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. 214+50.00 TO STA. 214+75.00	CONTRACT NO. 68974				
PLOT DATE = 6/15/2018	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									

FINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



LEGEND

Removal and disposal of unsuitable materia

FILE NAME = 0468974-sht-xshd.dgn

USER NAME = crespole	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 6/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

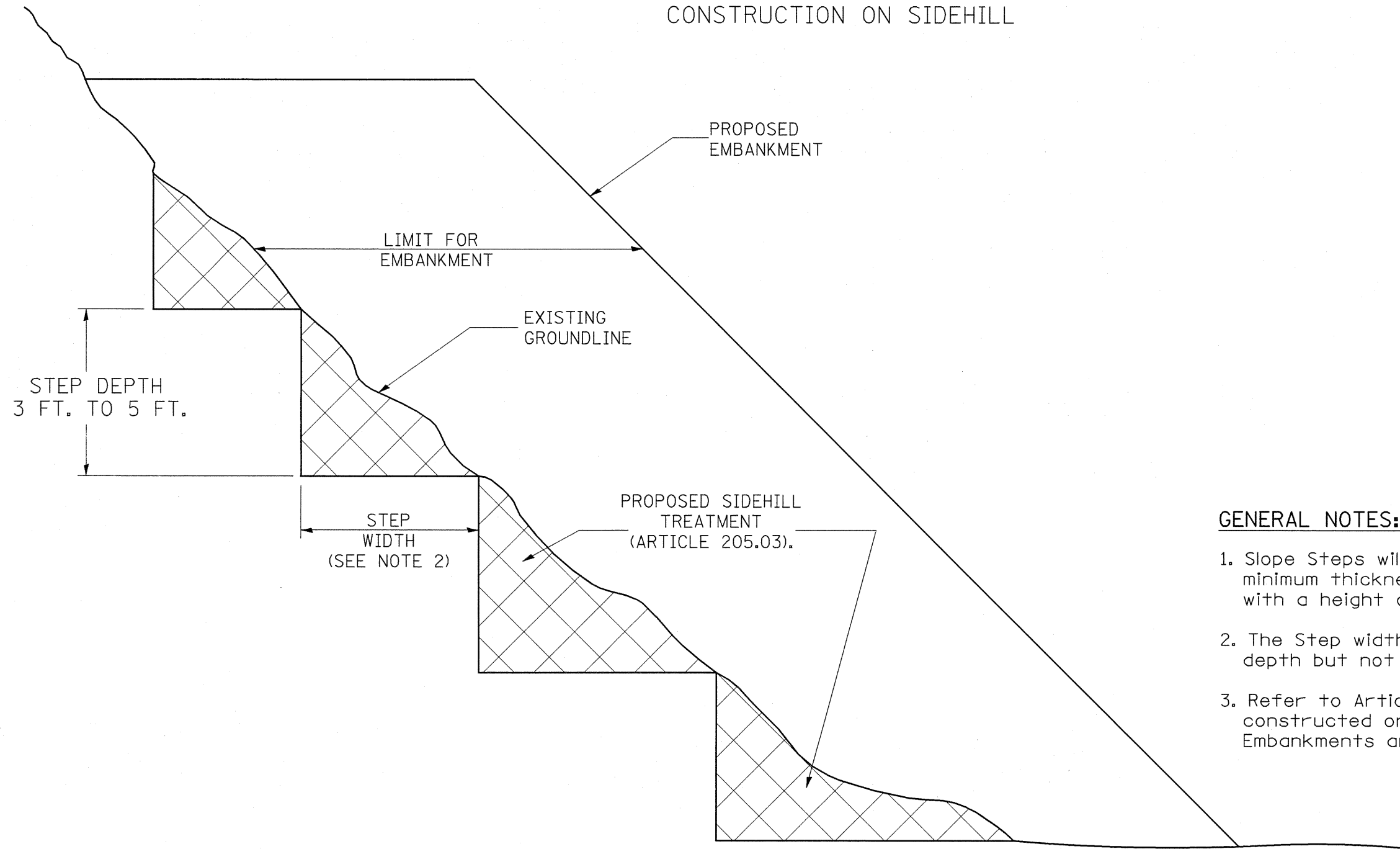
**IL RTE 41 SLOPE REPAIR
CROSS SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. 215+00.00 TO STA. 215+00.00

F.A.P. RTE. 574	SECTION 12I-1	COUNTY Fulton	TOTAL SHEETS 31	SHEET NO. 26
CONTRACT NO. 68974			ILLINOIS FED. AID PROJECT	

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



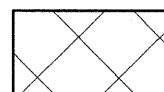
GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

REPLACEMENT MATERIAL:



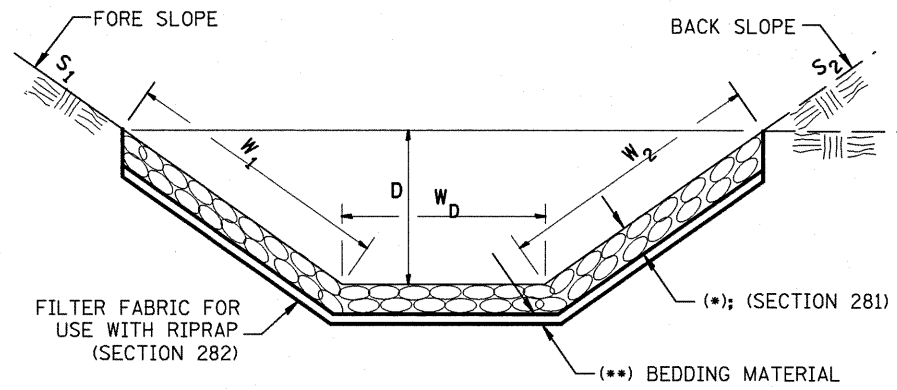
STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

All dimensions are in inches (millimeters)
unless otherwise noted.

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE STEPS DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-16-06	REVISED TO 2007 SPEC.	M.A.						574	12I-1	Fulton	31	27
CONTRACT NO. 68974												
							NOT TO SCALE	CADD STD. 205001-D4		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

Designer NOTES:
 1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
 2. (*) Designer to specify pay item including material, quality, and gradation.
 3. (**) Designer to specify thickness of bedding material.
 4. Include District Special Provision if needed.

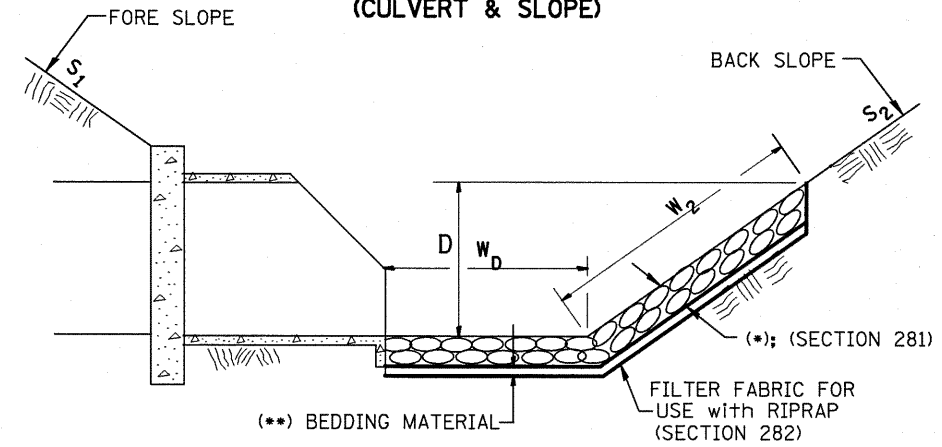
**CASE 1
(DITCH)**



(STONE RIPRAP CLASS B3)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
Lt. Sta. 212+50 to 213+20.98	11.67	79	153	
Lt. Sta. 213+30.98 to 214+06.57	11.4	80.4	154.5	
TOTAL			307.5	

(1) WIDTH = $W_1 + W_2 + W_D$

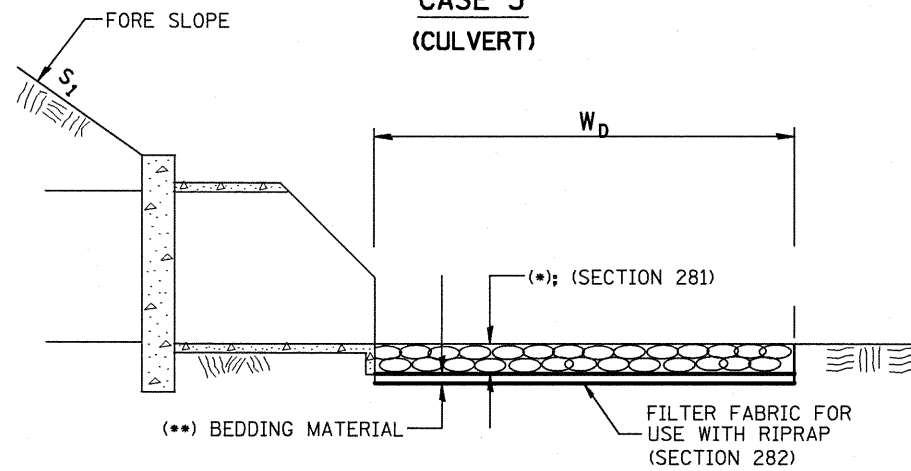
**CASE 2
(CULVERT & SLOPE)**



(STONE RIPRAP CLASS A4)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
Lt Sta. 213+25.96	10	22.5	25.1	25
TOTAL			25.1	25

(1) WIDTH = $W_2 + W_D$

**CASE 3
(CULVERT)**



(STONE RIPRAP CLASS A4)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
Rt Sta. 213+25.96	10	25	37.1	27.8
TOTAL			37.1	27.8

(1) WIDTH = W_D

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise noted.

1-1-97	RENUM. A-12.02, NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

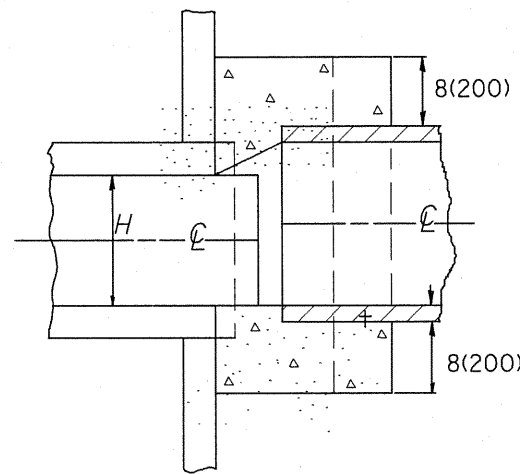
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIPRAP DITCH FOR EROSION PROTECTION

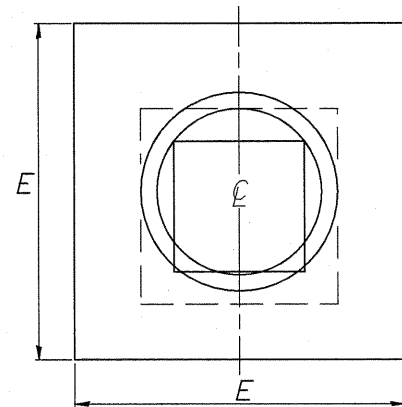
NOT TO SCALE

CADD STD. 281001-D4

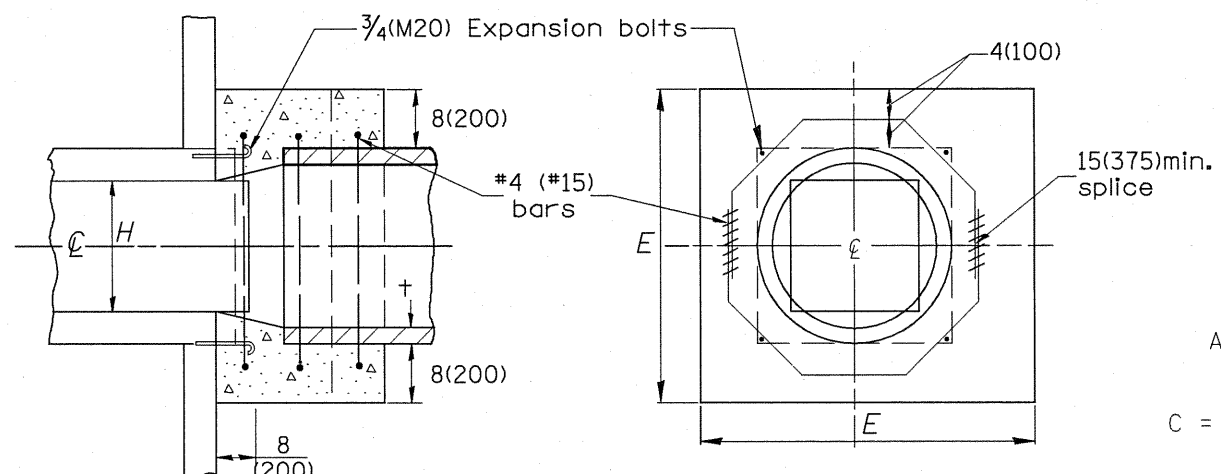
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12I-1	Fulton	31	28
CONTRACT NO. 68974				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



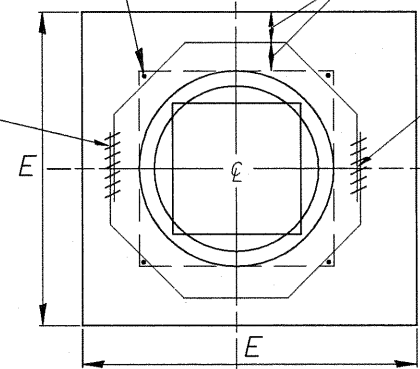
SECTION A-A



END VIEW



SECTION A-A



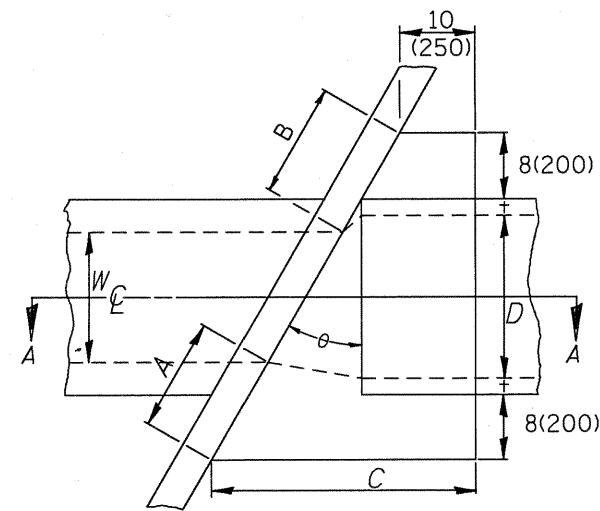
END VIEW

$$A = B = \frac{D - W}{2} + t + 8(200) \cos \theta$$

$$C = \tan \theta [D + 2t + 16(410)] + 10(250)$$

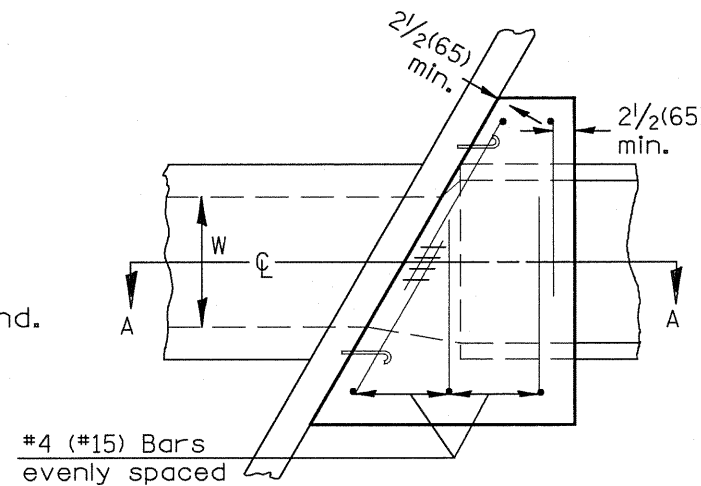
$$G = \frac{D + 2t + 8(200)}{2.4142 [\cos \theta]}$$

(Note: 'G' is based upon maximum skewed length)

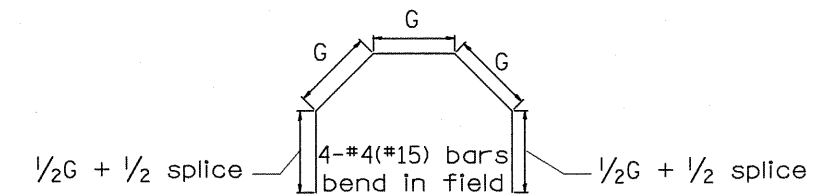


PLAN VIEW UP STREAM

NOTE: Dimensions are shown in Plan View of Up Stream End while Reinforcement is shown in plan view of Down Stream End.



PLAN VIEW DOWN STREAM



GENERAL NOTES

- The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement bars shall conform to section 508.
- Expansion bolts shall consist of approved expansion anchors, and 3/4 (M20) hook bolts which conform to section 1006.09. These bolts shall extend at least 8(200) into the new concrete.

EXISTING BOX		EACH COLLAR											
W	H	θ	A	B	C	D	E	t	CONCRETE	REINFORCEMENT BARS		EXPAN. BOLTS	
									CU. YD. (m ³)	G	L	KG(LBS.)	EACH
2'	2'	13.95	18.5"	18.5"	24"	36"	60"	4"	0.7	22"	8'-7"	30	8
2'	2'	11.70	18"	18"	20 3/4"	30"	53"	3.5"	0.8	19 1/2"	7'-8"	30	8

QUANTITIES

CALC. BY: _____ DATE: _____

CHECKED BY: _____ DATE: _____

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

01-01-97	RENUM. J-11.03, NEW REVISION BOX, REVISED	T.P.
10-16-06	REVISOR TO 2007 SPEC.	M.A.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

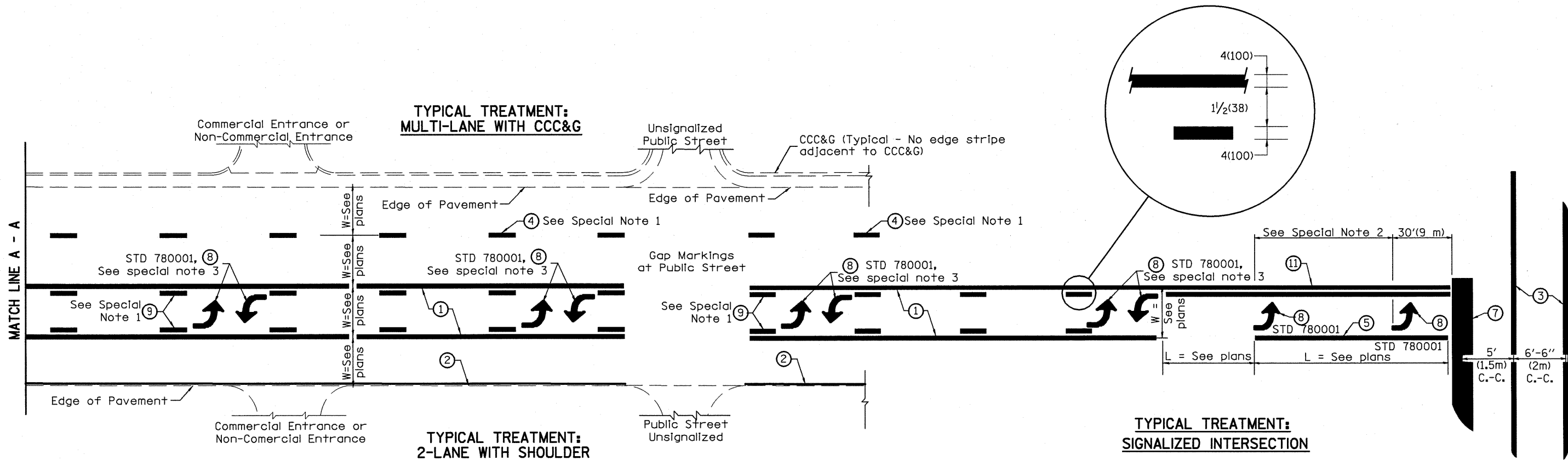
SKewed PIPE CULVERT EXTENSION COLLAR (WITH END SECTION)

NOT TO SCALE

CADD STD. 542011-D4

All dimensions are in Inches (millimeters) unless otherwise noted.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
574	12I-1	Fulton	31	29
CONTRACT NO. 68974				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE
WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION**

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m) min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m) min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) 45°
- ⑪ 4(100) Double Solid (Yellow) 11(280) C.-C. See Table A

SPECIAL NOTES

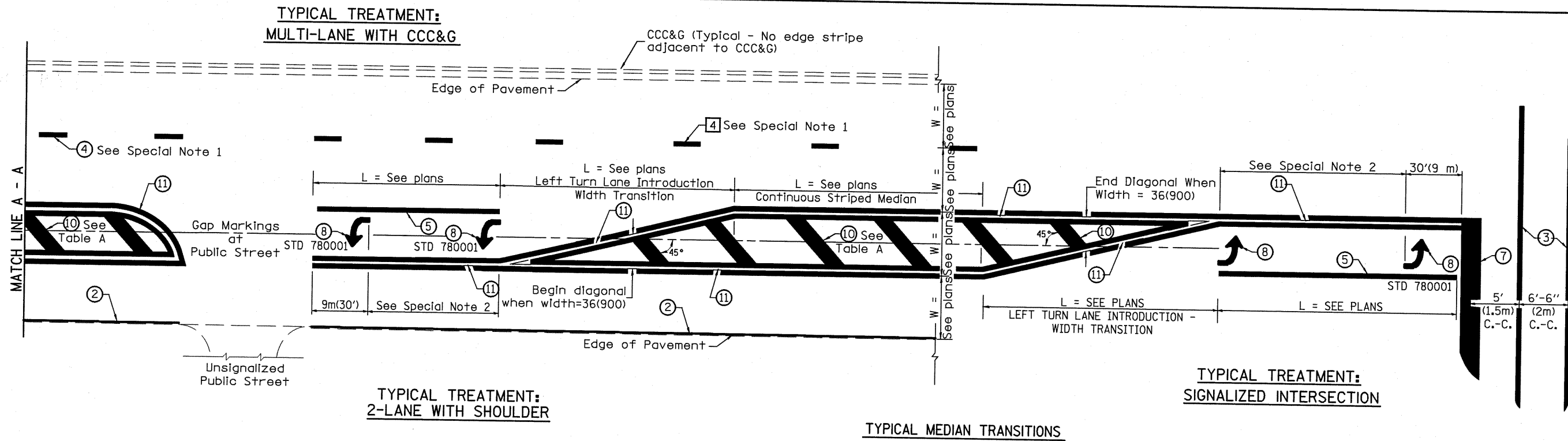
1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed Islands and medians, and through lane reductions.

DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)

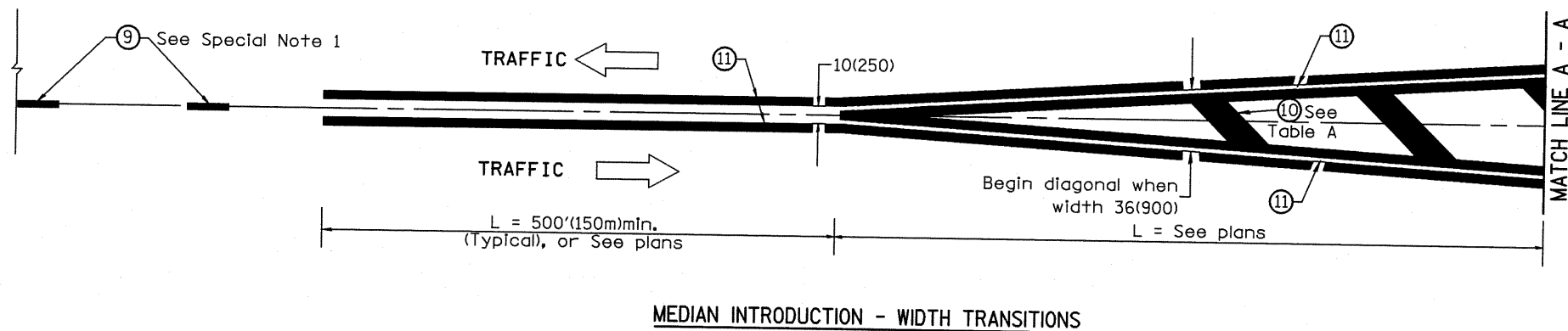
01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.					574	121-1	Fulton	31	30
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.									
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.									
						NOT TO SCALE	SHT. 1 OF 2 CADD STD. 780001-D4	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 68974	



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



All dimensions are in inches (millimeters) unless otherwise noted.