

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

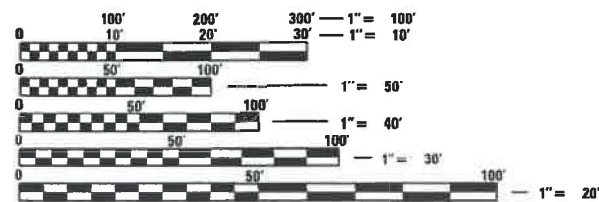
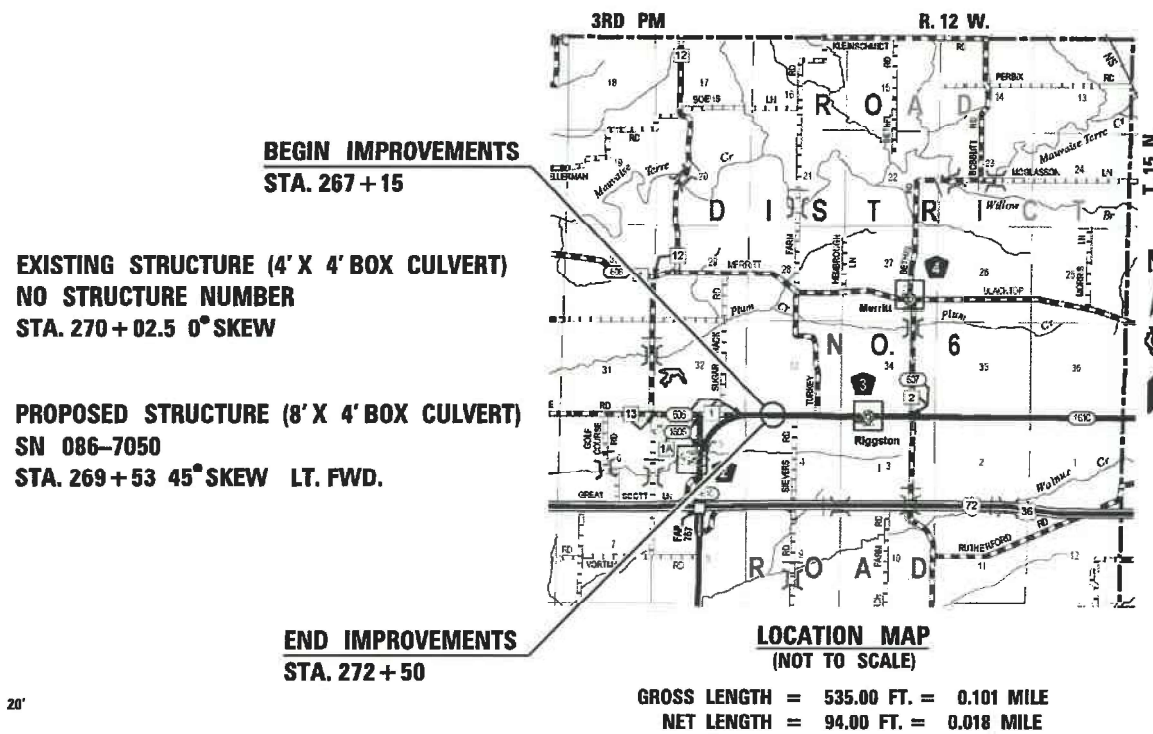
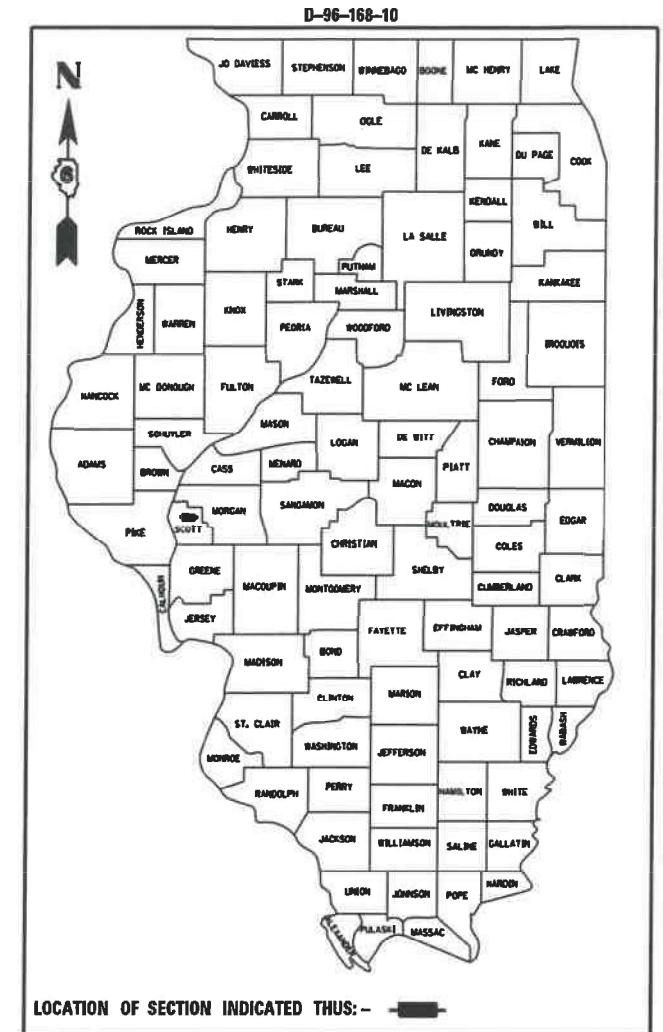
F.A.S. RTE. 1610	SECTION 22CR	COUNTY SCOTT	TOTAL SHEETS 31	SHEET NO. 1
ILLINOIS			CONTRACT NO. 72D40	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY CLASSIFICATION

A.D.T. (2015) - 1,850 PV = 95.68
DESIGN SPEED - 55 MPH SU = 2.7%
POSTED SPEED - 55 MPH MU = 1.62%
CLASSIFICATION: MAJOR COLLECTOR

F.A.S. ROUTE 1610 (OLD US 36)
SECTION 22CR
PROJECT STP - VK37(672)
BRIDGE REPLACEMENT OVER DRAINAGE DITCH
SCOTT COUNTY
C-96-168-10



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

CHRISTOPHER P. KOLLER
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
EXPIRATION: 11/30/2021

Christopher P. Koller 12/14/20

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 9 20 20

Jay P. Myer REGIONAL ENGINEER
August 13, 2021

Scott A. Elk ENGINEER OF DESIGN AND ENVIRONMENT
August 13, 2021

James J. Guerin DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PROJECT ENGINEER: JAY WAVERING (217) 785-9046
CONTRACT NO. 72D40

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OF THE STATE OF ILLINOIS

GENERAL NOTES

- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR HORIZONTAL CONTROL.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	EXISTING MONUMENT	TYPE
CB2251	266 + 31.04	9.08' LT.	1102915.025	2220237.971	N1/4 CORNER SECTION 4, T.14N., R.12W., 3RD P.M.	PK NAIL	1
CB2256	266 + 75.16	9.02' LT.	1102915.363	2220193.857	S1/4 CORNER SECTION 33, T.15N., R.12W., 3RD P.M.	PK NAIL	1

- TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05.
- BEFORE ORDERING BOX CULVERT LENGTHS, PIPE CULVERTS OR STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- LAYOUT OF RIPRAP MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

6. THE FOLLOWING APPLICATION RATES WERE USED FOR QUANTITY CALCULATIONS:

COMPACTED AGGREGATE TYPE A	1.8 TON /CU. YD.
AGGREGATE SHOULDERS TYPE B	1.6 TON /CU. YD.
ALL HOT MIX ASPHALT ITEMS	0.056 TONS /SQ. YD.*INCH
BITUMINOUS MATERIALS (PRIME COAT) ON AGG.	0.25 LB./SQ. FT.
BITUMINOUS MATERIALS (TACK COAT) ON MILLED HMA	0.05 LB./SQ. FT.
BITUMINOUS MATERIALS FOG COAT BETWEEN HMA LIFTS	0.025 LB./SQ. FT.
NITROGEN FERTILIZER NUTRIENT	90 LBS /ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS /ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS /ACRE
MULCH	2.0 TON /ACRE
AGRICULTURAL GROUND LIMESTONE	2.0 TON /ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS /ACRE
STONE RIPRAP	1.5 TONS /CU. YD.

COMMITMENTS




NONE AS OF 10/13/2020.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3-6	SUMMARY OF QUANTITIES
7-9	TYPICAL SECTIONS
10-11	SCHEDULE OF QUANTITIES
12	ALIGNMENT, TIES, & BENCHMARKS
13	PLAN AND PROFILE
14	MAINTENANCE OF TRAFFIC DETOUR PLAN
15	EROSION CONTROL PLANS
16-21	STRUCTURE PLANS
22-28	OLD US 36 CROSS SECTIONS
29-31	DITCH CROSS SECTIONS

IDOT HIGHWAY STANDARDS

000001-08	667101-02	701311-03
001001-02	701001-02	701901-08
001006	701006-05	780001-05
280001-07	701011-04	781001-04
515001-04	701201-05	BLR 21-9
666001-01	701301-04	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT 6	
EXAMINED	December 2 20 20
 ENGINEER OF OPERATIONS	
EXAMINED	November 30 20 20
 ENGINEER OF PROJECT IMPLEMENTATION	
EXAMINED	December 3 20 20
 ENGINEER OF PROGRAM DEVELOPMENT	

REV. - MS



USER NAME *	DESIGNED -	REVISED -
PLOT SCALE *	DRAWN -	REVISED -
PLOT DATE *	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	2
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				

PPS# 6-00527-0000
 80% FED 20% ST
 BOX CULVERT
 0004
 RURAL
 SN 086-7050

CODE	ITEM	UNIT	TOTAL	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	238	238
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	189	189
20200100	EARTH EXCAVATION	CU YD	1100	1100
20300100	CHANNEL EXCAVATION	CU YD	527	527
20800150	TRENCH BACKFILL	CU YD	8	8
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	500	500
25000200	SEEDING, CLASS 2	ACRE	1.5	1.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135	135
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135	135
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135	135
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3	3
25100115	MULCH, METHOD 2	ACRE	1.5	1.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150
28000305	TEMPORARY DITCH CHECKS	FOOT	207	207

REV. - MS



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	3
CONTRACT NO. 72D40			ILLINOIS FED. AID PROJECT	

PPS# 6-00527-0000
 80% FED 20% ST
 BOX CULVERT
 0004
 RURAL
 SN 086-7050

CODE	ITEM	UNIT	TOTAL	
28000315	AGGREGATE DITCH CHECKS	TON	7	7
28100207	STONE RIPRAP, CLASS A4	TON	311	311
28200200	FILTER FABRIC	SQ YD	484	484
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	286	286
42000520	PORTLAND CEMENT CONCRETE PAVEMENT 11"	SQ YD	265	265
44000100	PAVEMENT REMOVAL	SQ YD	230	230
44004250	PAVED SHOULDER REMOVAL	SQ YD	32	32
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	48	48
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	48	48
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5950	5950
51500100	NAME PLATES	EACH	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	33.7	33.7
54010804	PRECAST CONCRETE BOX CULVERTS 8' X 4'	FOOT	70	70



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72D40	

PPS# 6-00527-0000
 80% FED 20% ST
 BOX CULVERT
 0004
 RURAL
 SN 086-7050

CODE	ITEM	UNIT	TOTAL	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	117	117
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	120	120
61133200	FIELD TILE JUNCTION VAULTS, 3' DIAMETER	EACH	2	2
63200310	GUARDRAIL REMOVAL	FOOT	150	150
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	120	120
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	1190	1190
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	117	117
* X2600012	REMOVE AND RELOCATE SIGN PANEL AND POLE ASSEMBLY	EACH	1	1
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
Z0016702	DETOUR SIGNING	L SUM	1	1

* SPECIALTY ITEM



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	5
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				

PPS# 6-00527-0000
 80% FED 20% ST
 BOX CULVERT
 0004
 RURAL
 SN 086-7050

CODE	ITEM	UNIT	TOTAL	
Z0023602	GRANULAR CULVERT BACKFILL	CU YD	174	174
Z0049799	PROTECTING OR RESETTING SURVEY MARKERS	EACH	2	2



Veenstra & Kimm, Inc.
 Springfield, IL. Phone: (217)544-8033

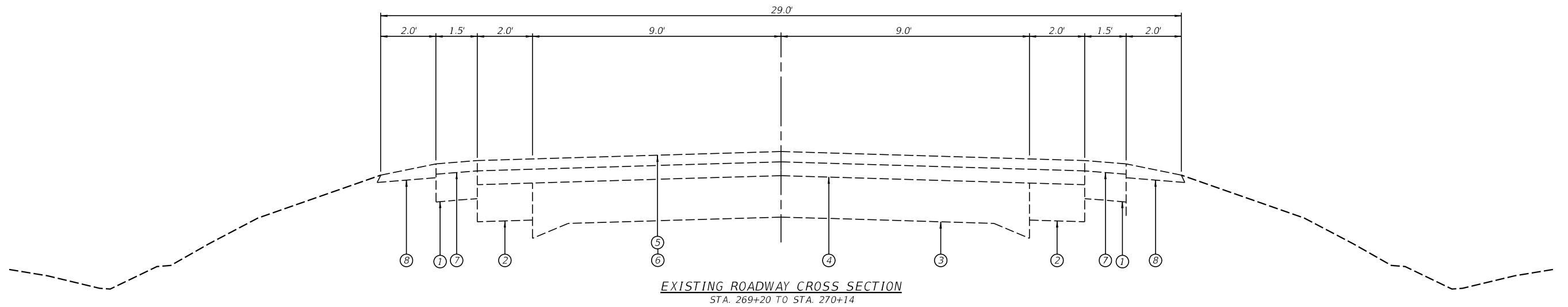
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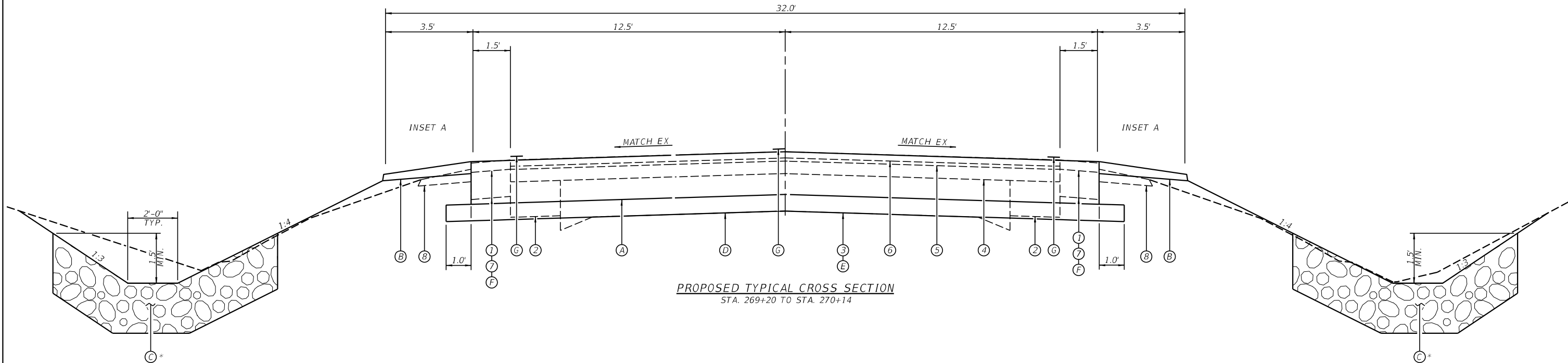
SUMMARY OF QUANTITIES

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	6
				CONTRACT NO. 72D40
ILLINOIS FED. AID PROJECT				

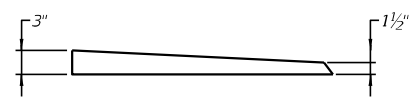


EXISTING ROADWAY CROSS SECTION
STA. 269+20 TO STA. 270+14



PROPOSED TYPICAL CROSS SECTION
STA. 269+20 TO STA. 270+14

* SEE PLAN & PROFILE SHEETS
& CROSS SECTIONS FOR RIPRAP
LOCATIONS



AGGREGATE WEDGE DETAIL
INSET A

LEGEND

- 1 - EX BIT SHLDR 6" MIN
- 2 - EX PCC BASE COURSE WIDENING 8"
- 3 - EX PCC PAVEMENT 9"-6"-9"
- 4 - EX BIT SURFACE 3"
- 5 - EX LEVELING BINDER MACHINE METHOD 3/4"
- 6 - EX BIT SURFACE COURSE 1 1/2"
- 7 - EX BIT SHLDR
- 8 - EX AGGREGATE SHLDR, TY B
- A - PR PORTLAND CONCRETE CEMENT PAVEMENT 11"
- B - PR AGGREGATE SHOULDER WEDGE
- C - PR CLASS A4 RIPRAP
- D - PR AGGREGATE BASE COURSE TYPE B, 4"
- E - PR PAVEMENT REMOVAL
- F - PR PAVED SHOULDER REMOVAL
- G - PR PAINT PAVEMENT MARKING - LINE 5"



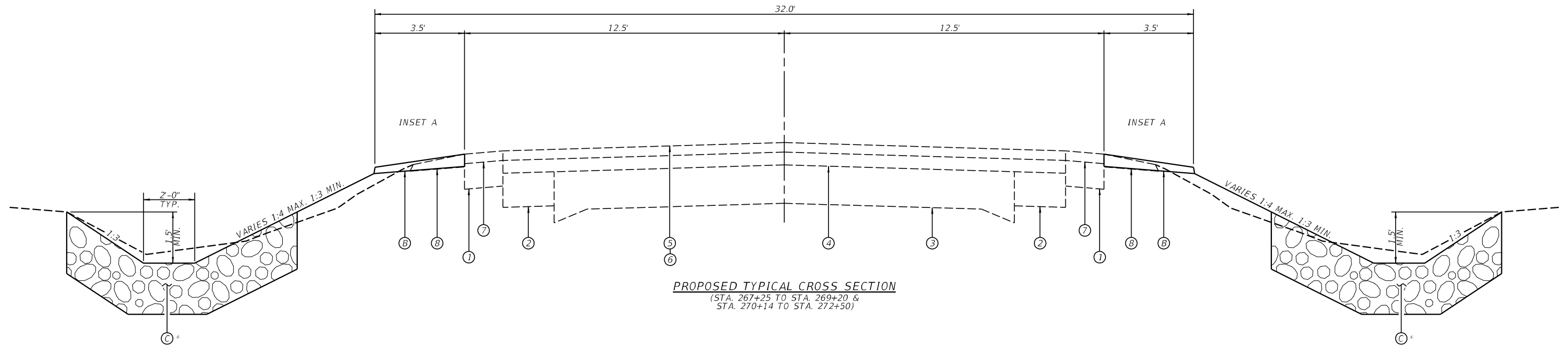
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STATE OF ILLINOIS
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TYPICAL ROADWAY SECTIONS

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

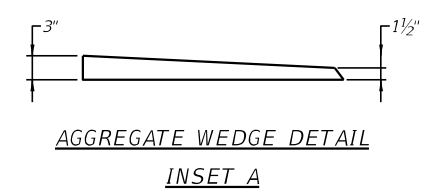
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	7
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				



* SEE PLAN & PROFILE SHEETS
 & CROSS SECTIONS FOR RIPRAP
 LOCATIONS

LEGEND

- 1 - EX BIT SHLDR 6" MIN
- 2 - EX PCC BASE COURSE WIDENING 8"
- 3 - EX PCC PAVEMENT 9"-6"-9"
- 4 - EX BIT SURFACE 3"
- 5 - EX LEVELING BINDER MACHINE METHOD ¾"
- 6 - EX BIT SURFACE COURSE 1½"
- 7 - EX BIT SHLDR
- 8 - EX AGGREGATE SHLDR, TY B
- A - PR PORTLAND CONCRETE CEMENT PAVEMENT 11"
- B - PR AGGREGATE SHOULDER WEDGE
- C - PR CLASS A4 RIPRAP
- D - PR AGGREGATE BASE COURSE TYPE B, 4"
- E - PR PAVEMENT REMOVAL
- F - PR PAVED SHOULDER REMOVAL
- G - PR PAINT PAVEMENT MARKING - LINE 5"



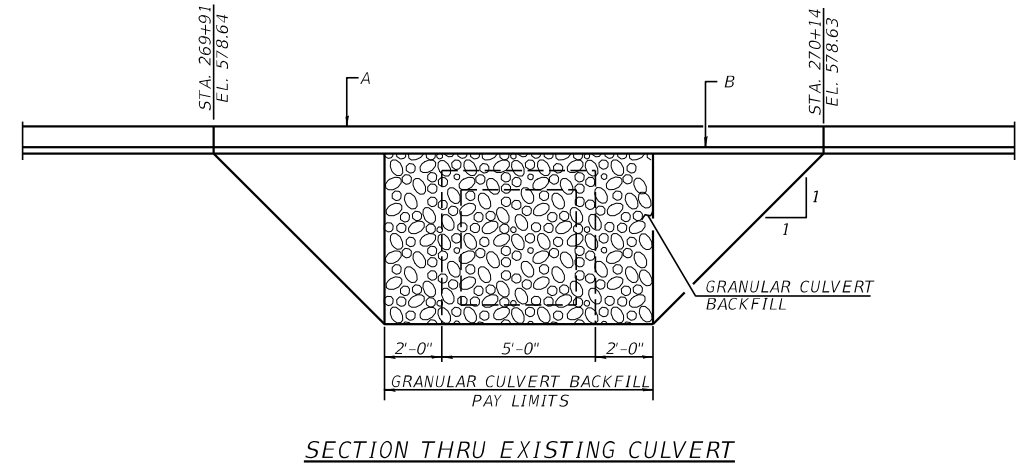
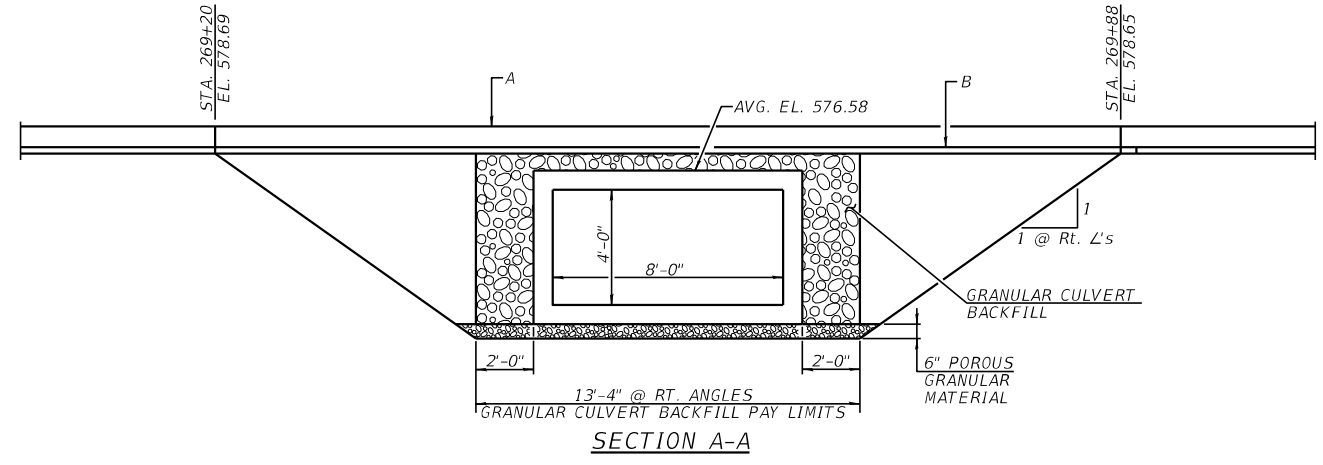
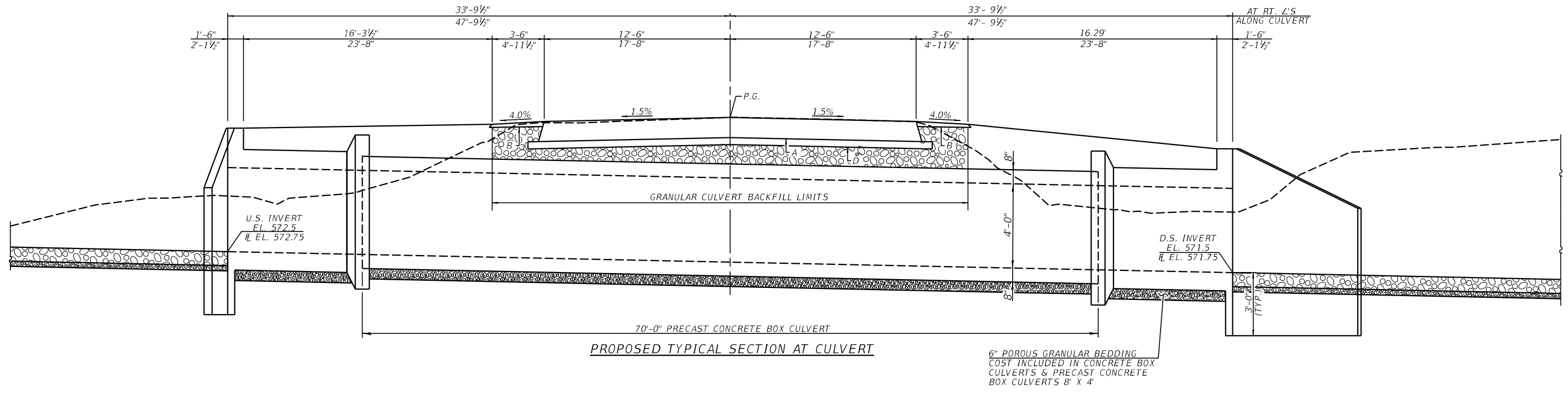
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	8
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- 1 - EX BIT SHLDR 6" MIN
 - 2 - EX PCC BASE COURSE WIDENING 8"
 - 3 - EX PCC PAVEMENT 9'-6"-9"
 - 4 - EX BIT SURFACE 3"
 - 5 - EX LEVELING BINDER MACHINE METHOD 3/4"
 - 6 - EX BIT SURFACE COURSE 1 1/2"
 - 7 - EX BIT SHLDR
 - 8 - EX AGGREGATE SHLDR, TY B
 - A - PR PORTLAND CEMENT CONCRETE PAVEMENT 11"
 - B - PR AGGREGATE SHOULDER WEDGE
 - C - PR CLASS A4 RIPRAP
 - D - PR AGGREGATE BASE COURSE TYPE B, 4"
 - E - PR PAVEMENT REMOVAL
 - F - PR PAVED SHOULDER REMOVAL
 - G - PR PAINT PAVEMENT MARKING - LINE 5"



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	9
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				

TREE REMOVAL SCHEDULE		
LOCATION	20100110	20100210
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	UNIT	UNIT
STA. 266+85 150' RT.	15	
STA. 266+85 150' RT.	9	
STA. 266+85 150' RT.	12	
STA. 266+85 150' RT.		16
STA. 266+87 129' RT.	9	
STA. 267+05 114' RT.		67
STA. 267+05 100' RT.		18
STA. 267+05 100' RT.		20
STA. 267+11 100' RT.		19
STA. 267+11 100' RT.		17
STA. 267+20 82' RT.	7	
STA. 267+20 95' RT.	12	
STA. 267+20 104' RT.	7	
STA. 267+26 88' RT.	15	
STA. 267+32 95' RT.	9	
STA. 267+38 90' RT.	7	
STA. 267+60 69' RT.	14	
STA. 267+66 54' RT.	13	
STA. 267+75 77' RT.		32
STA. 267+75 64' RT.	10	
STA. 267+90 74' RT.	14	
STA. 267+90 74' RT.	7	
STA. 267+90 74' RT.	8	
STA. 268+14 66' RT.	15	
STA. 268+14 66' RT.	10	
STA. 268+14 66' RT.	11	
STA. 268+14 66' RT.	6	
STA. 268+14 66' RT.	7	
STA. 268+24 63' RT.	6	
STA. 268+24 63' RT.	6	
STA. 269+90 97' RT.	9	
TOTAL	238	189

EARTHWORK					
LOCATION	20200100	20300100	EARTH	EMBANKMENT	EARTHWORK
	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE		
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 267+15 TO STA. 272+50	1100		825	338	487
STA. 10+00 TO STA. 12+34.37		431	323	194	129
STA. 13+29.95 TO STA. 14+00		96	72	52	20
TOTAL	1,100	527	1,220	584	636

20800150 TRENCH BACKFILL	
LOCATION	20800150
	TRENCH BACKFILL
	CU. YD.
STA. 270+00 16' LT. TO STA. 270+00 16' RT.	8
TOTAL	8

STONE RIPRAP AND FILTER FABRIC SCHEDULE		
LOCATION	28100207	28200200
	STONE RIPRAP, CLASS A4	FILTER FABRIC
	TON	SQ. YD.
STA. 268+50 TO STA. 269+01 RT.	53	80
STA. 269+16 TO STA. 269+75 RT.	61	92
STA. 269+25 TO STA. 269+78 LT.	53	90
STA. 270+05 TO STA. 270+50 LT.	42	69
RIPRAP AT EACH END OF STRUCTURE	102	153
TOTAL	311	484

21301052 EXPLORATION TRENCH 52" DEPTH	
LOCATION	21301052
	EXPLORATION TRENCH 52" DEPTH
	FOOT
STA. 268+75 TO STA. 271+25 40' LT.	250
STA. 268+00 TO STA. 270+50 40' RT.	250
TOTAL	500

PERMANENT SEEDING						
LOCATION	25000200	25000400	25000500	25000600	25000700	25100115
	SEEDING CLASS 2	NITROGEN FERT. NUT.	PHOSPHORUS FERT. NUT.	POTASSIUM FERT. NUT.	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	POUND	POUND	POUND	TON	ACRE
STA. 266+75 TO STA. 270+85.20 RT. EDGE OF PAVT. TO ROW (EASEMENT AREA)	0.44	40	40	40	0.88	0.44
STA. 266+75 TO STA. 272+85 RT. EDGE OF PAVT. TO ROW	0.44	40	40	40	0.88	0.44
STA. 266+75 TO STA. 272+85 LT. EDGE OF PAVT. TO ROW	0.48	43	43	43	0.96	0.48
STA. 269+50 TO STA. 271+00 LT. EDGE OF PAVT. TO ROW (EASEMENT AREA)	0.10	9	9	9	0.20	0.10
TOTAL	1.46	132	132	132	2.9	1.46
USE 1.5 ACRE USE 135 POUNDS USE 135 POUNDS USE 135 POUNDS USE 3.0 TON USE 1.5 ACRE						

EROSION CONTROL SCHEDULE			
LOCATION	28000250	28000305	28000315
	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	AGGREGATE DITCH CHECKS
	POUND	FOOT	TON
STA. 266+75 TO STA. 270+85.20 RT. EDGE OF PAVT. TO ROW (EASEMENT AREA)	45		
STA. 266+75 TO STA. 272+85 RT. EDGE OF PAVT. TO ROW	45		
STA. 266+75 TO STA. 272+85 LT. EDGE OF PAVT. TO ROW	50		
STA. 269+50 TO STA. 271+00 LT. EDGE OF PAVT. TO ROW (EASEMENT AREA)	10		
STA. 268+00 32' LT & 29' RT		26	
STA. 268+50 34' LT & 33' RT		26	
STA. 269+00 37' LT		13	
STA. 269+00 46' RT		25	
STA. 269+50 41' LT & 41' RT		26	
STA. 270+00 33' RT		13	
STA. 270+50 38' LT & 30' RT		26	
STA. 271+00 34' LT & 27' RT		26	
STA. 271+50 30' LT & 30' RT		26	
STA. 13+75 (IN DITCH)			7
TOTAL	150	207	7

42000520 PORTLAND CEMENT CONCRETE PAVEMENT 11"	
LOCATION	42000520
	PORTLAND CEMENT CONCRETE PAVEMENT 11"
	SQ. YD.
STA. 269+20 TO STA. 270+14	265
TOTAL	265

AGGREGATE SCHEDULE		
LOCATION	35101600	48102100
	AGGREGATE BASE COURSE, TYPE B 4"	AGGREGATE WEDGE SHOULDER, TYPE B
	SQ. YD.	TON
STA. 269+20 TO STA. 270+14	286	
STA. 267+25 TO STA. 272+40 LT & RT		48
TOTAL	286	48

REV. - MS

REMOVAL SCHEDULE					
LOCATION	44000100 PAVEMENT REMOVAL SQ. YD.	44004250 PAVED SHOULDER REMOVAL SQ. YD.	50105220 PIPE CULVERT REMOVAL FOOT	63200310 GUARDRAIL REMOVAL FOOT	X2600012 REMOVE & RELOCATE SIGN PANEL & POLE ASSEMBLY EACH
STA. 269+20 TO STA. 270+14	230				
STA. 269+20 TO STA. 270+14 LT & RT		32			
STA. 269+50 TO STA. 269+80 25' RT.			30		
STA. 270+31 TO STA. 270+49 22' LT			18		
STA. 269+62 TO STA. 270+37 RT				75	
STA. 269+67 TO STA. 270+42 LT				75	
STA. 268+72 26' RT					1
TOTAL	230	32	48	150	1

61101013 STORM SEWERS PROTECTED, CLASS A, 12"	
LOCATION	61101013 STORM SEWERS PROTECTED, CLASS A, 12" FOOT
STA. 270+00 60' LT. TO STA. 270+00 60' RT.	120
TOTAL	120

78001120 PAINT PAVEMENT MARKING - LINE 5"			
LOCATION	30' SKIP 10' DASH YELLOW FOOT	SOLID YELLOW LINE FOOT	EDGE LINE WHITE FOOT
	STA. 267+25 TO STA. 272+50	140	
SUBTOTAL	140	0	1050
TOTAL			1190

61133200 FIELD TILE JUNCTION VAULTS, 3' DIAMETER	
LOCATION	61133200 FILED TILE JUNCTION VAULTS, 3' DIAMETER EACH
STA. 269+22 40' LT	1
STA. 270+70 37' RT	1
TOTAL	2

Z0023602 GRANULAR CULVERT BACKFILL	
LOCATION	Z0023602 GRANULAR CULVERT BACKFILL CU. YD.
STA. 269+30.37 TO STA. 269+75.63 (PROPOSED STRUCTURE)	112
STA. 269+98 TO STA. 270+07 (EXISTING STRUCTURE)	62
TOTAL	174

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	66600105 FURN. & ERECT ROW MARKERS EACH
STA. 266+75 33' LT	1
STA. 268+00 60' LT	1
STA. 271+00 60' LT	1
STA. 272+85 33' LT	1
STA. 267+25 30' RT	1
STA. 268+50 60' RT	1
STA. 270+75 60' RT	1
STA. 272+85 35' RT	1
TOTAL	8

Z0049799 PROTECTING OR RESETTING SURVEY MARKERS	
LOCATION	Z0049799 PROTECTING OR RESETTING SURVEY MARKERS EACH
STA. 266+31.04 9.08' LT. (PK NAIL)	1
STA. 266+75.16 9.02' LT. (PK NAIL)	1
TOTAL	2

70107025 CHANGEABLE MESSAGE SIGN	
LOCATION	70107025 CHANGEABLE MESSAGE SIGN CAL DAY
WB I-72 BL / MORTON AVE. - EAST OF US 67 INTERCHANGE	30
NB OLD US 36 - SOUTH OF I-72 INTERCHANGE	30
EB I-72 - WEST OF OLD US 36 / IL 106 WINCHESTER (EXIT 52)	30
WB I-72 / JACKSONVILLE US 67 NORTH (EXIT 60B) - EAST OF THIS INTERCHANGE	30
TOTAL	120



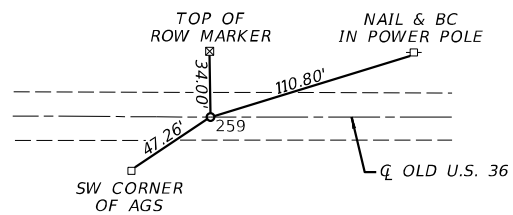
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

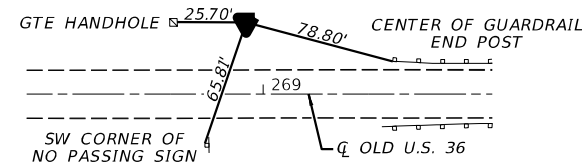
QUANTITY SCHEDULES

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

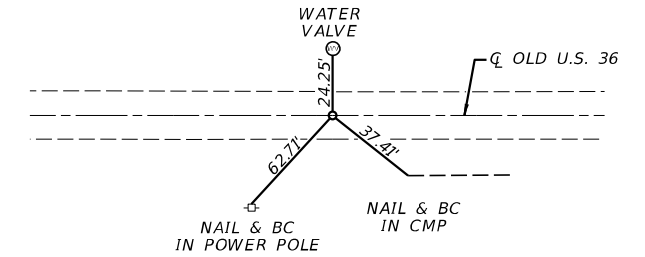
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	11
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				



P.I. STA. 259+00.00
 PK NAIL IN CHISELED "X"
 PI STA. 259+00.00
 N 2,220,969.0546
 E 1,102,919.5682



TRAVERSE #3
 #4 REBAR WITH CAP
 STA. 268+91.11
 N 2,219,977.729
 E 1,102,888.507

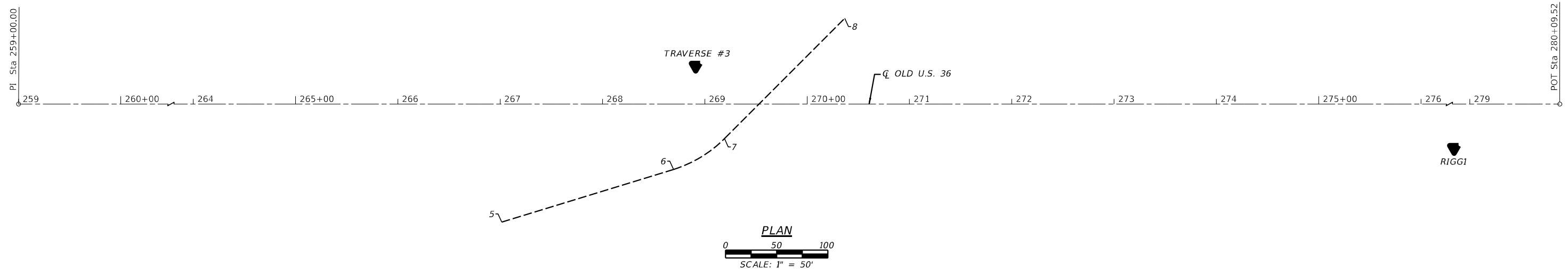


POT Sta 280+09.52
 PK NAIL IN CHISELED "X"
 POT Sta 280+09.52
 N 2,218,881.1640
 E 1,102,932.5290

POINT	NORTH	EAST	STATION	OFFSET	ELEVATION
1	1,102,861.265	2,223,651.589	232+16.96	-26.702	591.9470
Description : TRAVERSE STATION					
2	1,102,932.295	2,222,183.388	246+85.90	27.029	595.0570
Description : TRAVERSE STATION					
3	1,102,888.507	2,219,977.729	268+91.11	-37.214	578.5070
Description : TRAVERSE STATION					
4	1,102,934.562	2,221,047.360	258+21.88	15.915	582.5890
Description : TRAVERSE STATION					
RIGG1	1,102,973.420	2,219,237.080	276+32.28	43.100	580.4290
Description : National Geodetic Survey Primary Horizontal Control					
5	1103039.8058	2220168.3280	267+01.45	115.26	576.78
Description : POT IN CHANNEL 10+00.00 (CHANNEL)					
6	1102989.3849	2220000.1584	268+69.31	63.80	574.41
Description : POT IN CHANNEL 11+75.56 (CHANNEL)					
7	1102959.6881	2219950.0778	269+19.21	33.79	573.62
Description : POT IN CHANNEL 12+34.37 (CHANNEL)					
8	1102842.9031	2219831.8338	270+26.40	-75.74	571.40
Description : POT IN CHANNEL 14+00.56 (CHANNEL)					

ALL ELEVATIONS SHOWN ARE NAVD 88 DATUM.
 ALL COORDINATES SHOWN ARE STATE PLANE NAD83/1997ADJ IL WEST ZONE

BENCHMARKS
 BENCH MARK: NGS SURVEY DISK SET IN CONCRETE POST AT IDOT OPERATIONS YARD
 43' N OF Q OLD RT 36 & 33.5' S.E. OF Q OF ENTRANCE
 STA. 276+32.3, ELEV. 580.429



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

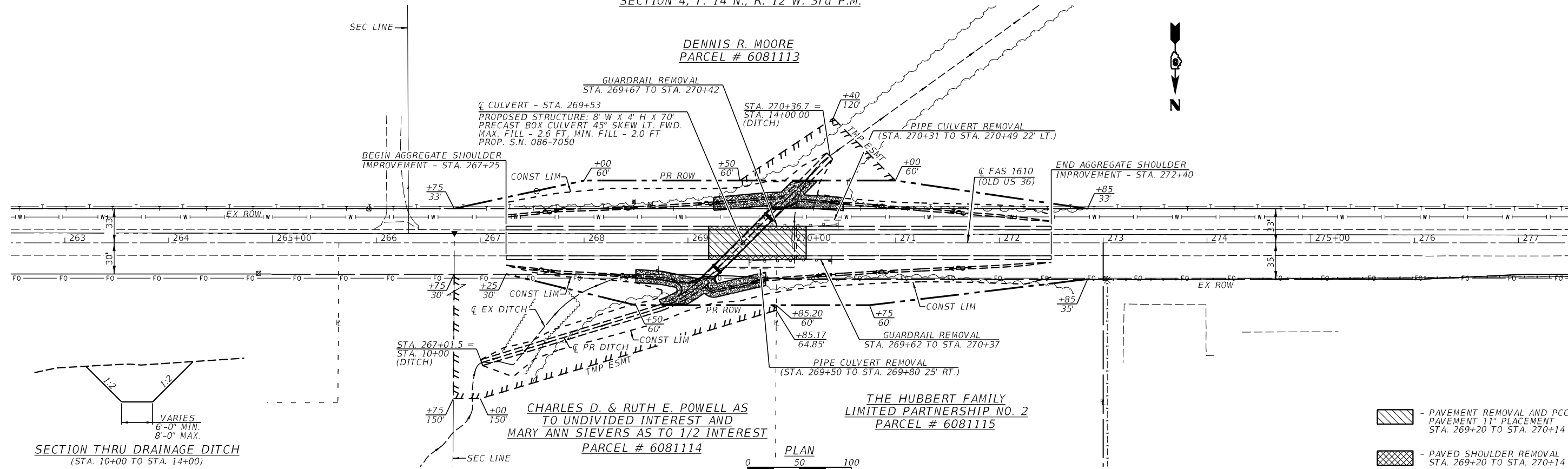
ALIGNMENT TIES & BENCHMARKS

SCALE: NONE SHEET NO. ___ OF ___ SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	12
CONTRACT NO. 78D40				
ILLINOIS FED. AID PROJECT				

SECTION 4, T. 14 N., R. 12 W. 3rd P.M.

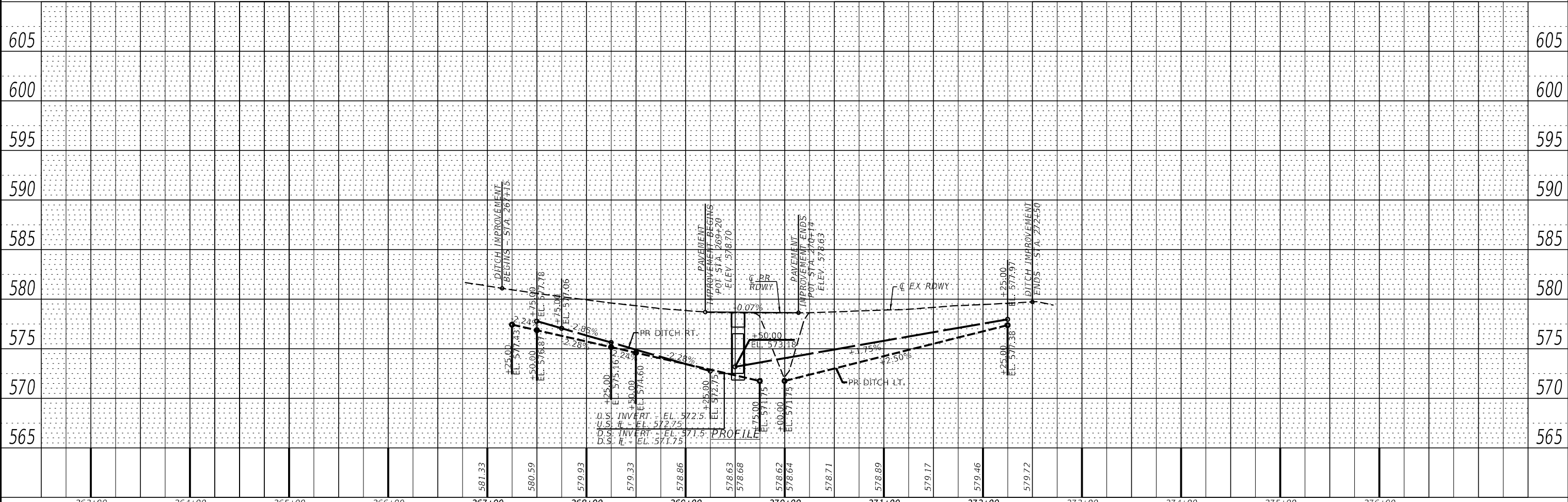
DENNIS R. MOORE
PARCEL # 6081113



PLAN	SURVIVED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVIVED	DATE
	PLOTTED	
	GRADED	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	

- PAVEMENT REMOVAL AND PCC PAVEMENT 11" PLACEMENT STA. 269+20 TO STA. 270+14
- PAVED SHOULDER REMOVAL STA. 269+20 TO STA. 270+14



263+00	264+00	265+00	266+00	267+00	268+00	269+00	270+00	271+00	272+00	273+00	274+00	275+00	276+00							
				581.33	580.59	579.03	579.33	578.86	578.63	578.68	578.62	578.64	578.71	578.89	579.17	579.46	579.72			

W&K
Springfield, IL Phone: (217)544-8033
IL Design Firm No. 184-001939

USER NAME = \$USERS	DESIGNED -	REVISED -
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PLOT DATE = \$DATES	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

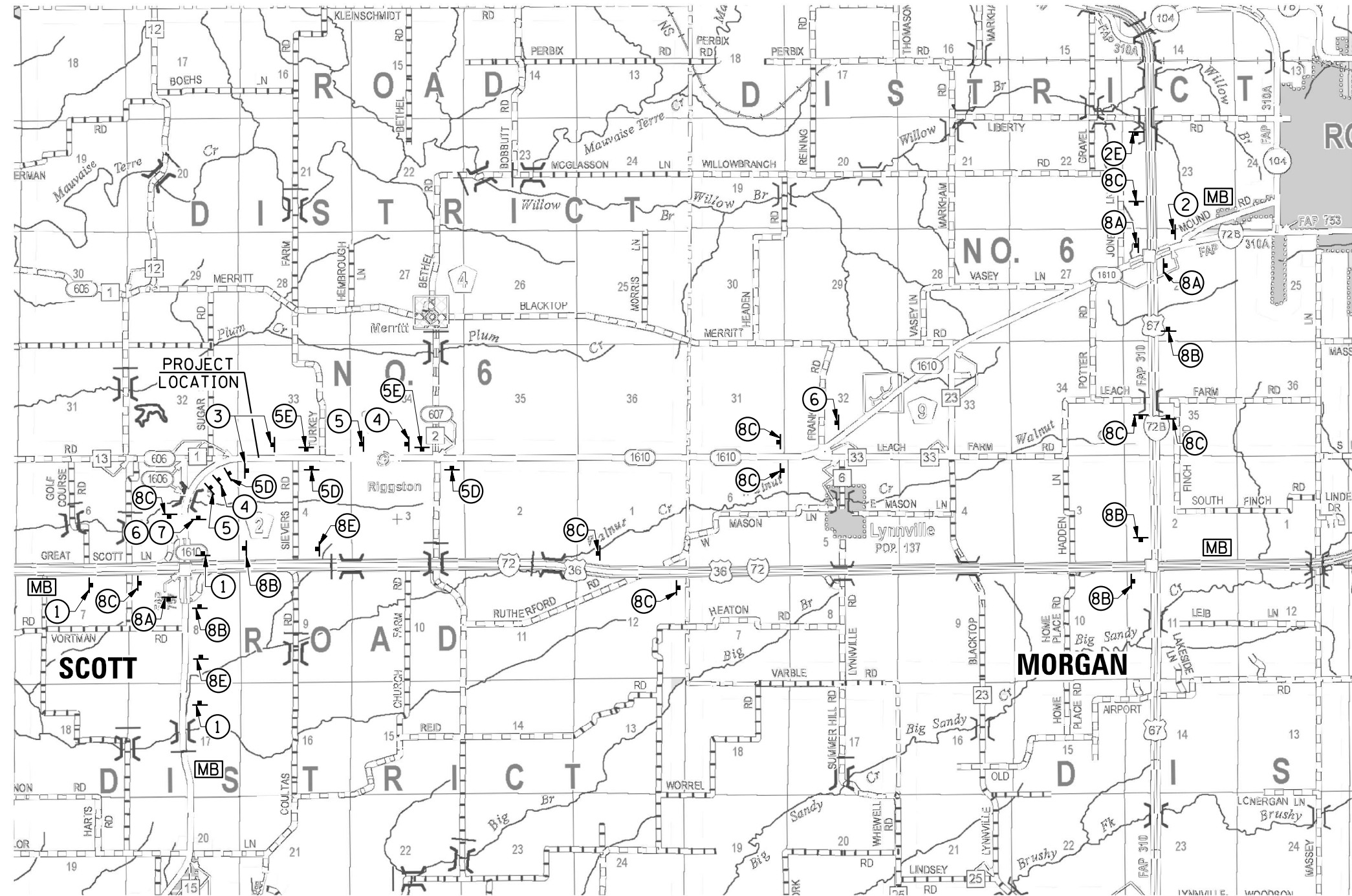
PLAN & PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	13
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				

TRAFFIC DETOUR ROUTE NOTES

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2016. THE DETAILS IN THESE PLANS, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- THE CONTRACTOR SHALL PROCEED WITH THE WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR IS IN EFFECT. SEE SPECIAL PROVISIONS FOR LIMITATIONS TO CLOSURE TIME AND DURATION.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE ROAD IS TO BE CLOSED. THE ENGINEER WILL CONTACT THE BUREAU OF OPERATIONS AS WELL AS LOCAL, TOWNSHIP AND COUNTY OFFICIALS CONCERNING THE CLOSURE.
- THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING AND MAINTENANCE PRIOR TO THE START OF WORK.
- LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH HIGHWAY STANDARD BLR 21 AND WITH THE ROAD CLOSURE PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR.
- ALL ROAD CLOSURE SIGNING SHALL BE MOUNTED AS INDICATED.
- ALL ROAD CLOSURE SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE BACKGROUNDS AND STANDARD BLACK BORDERS. ALL ROAD CLOSURE SIGNING SHALL BE NEW OR LIKE NEW CONDITION.
- THE SIZE OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND APPLICABLE TRAFFIC STANDARDS.
- AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THE ROAD CLOSURE SIGNING SHALL MEET THE REQUIREMENTS FOR A TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
- THE TYPE III BARRICADES USED AT POINTS OF CLOSURE TO THRU TRAFFIC ONLY SHALL NOT EXCEED 8 FEET IN WIDTH EACH FOR A SINGLE APPROACH LANE. ALL BARRICADES AT THESE LOCATIONS SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADE.
- THE "ROAD CLOSED" SIGN ON A TYPE III BARRICADE SHALL BE MOUNTED ACCORDING TO STANDARD 701901. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A - LOW INTENSITY FLASHING LIGHTS.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT, ARTICLES 701 THRU 703 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO WEEKS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE DISTRICT 6 BUREAU OF OPERATIONS.
- THE CONTRACTOR SHALL MAINTAIN OVERNIGHT ACCESS TO ALL PRIVATE DRIVEWAYS AND FIELD ENTRANCES DURING PERIODS OF CONSTRUCTION.



ROAD CLOSURE PLAN
NOT TO SCALE

LEGEND

- † SIGN POST MOUNTED
- ⌈ TYPE III BARRICADE
- MB MESSAGE BOARD

ROAD CLOSURE SIGNS

<p>1 ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY R11-3a POST MOUNTED</p>	<p>2 ROAD CLOSED 8 MILES AHEAD LOCAL TRAFFIC ONLY R11-3a POST MOUNTED</p>	<p>3 ROAD CLOSED R11-2 (48x30) MOUNTED ON TYPE III BARRICADE (SEE NOTE 14) PER BLR 21</p>	<p>4 ROAD CLOSED 500 FT W20-3 (O) (48x48) SIGN WITH FLASHING LIGHT POST MOUNTED</p>	<p>5 ROAD CLOSED AHEAD W20-3 (O) (48x48) SIGN WITH FLASHING LIGHT POST MOUNTED</p>	<p>6 ROAD CONSTRUCTION AHEAD W20-1-103 (O) (48x48) SIGN WITH FLASHING LIGHT POST MOUNTED</p>	<p>7 END DETOUR ILLINOIS OLD U.S. 36 M4-8a (24x18) M1-100a (30x24) POST MOUNTED</p>	<p>8 DETOUR ILLINOIS OLD U.S. 36 M4-8 (24x12) (O) M1-100a (30x24) (SEE DIRECTIONAL ARROWS) POST MOUNTED</p>
--	---	---	---	--	--	---	---

DIRECTIONAL ARROWS

- | | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <p>A
M6-1
(21x15)</p> | <p>B
M6-1
(21x15)</p> | <p>C
M6-3
(21x15)</p> | <p>D
M5-1
(21x15)</p> | <p>E
M5-1
(21x15)</p> |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|



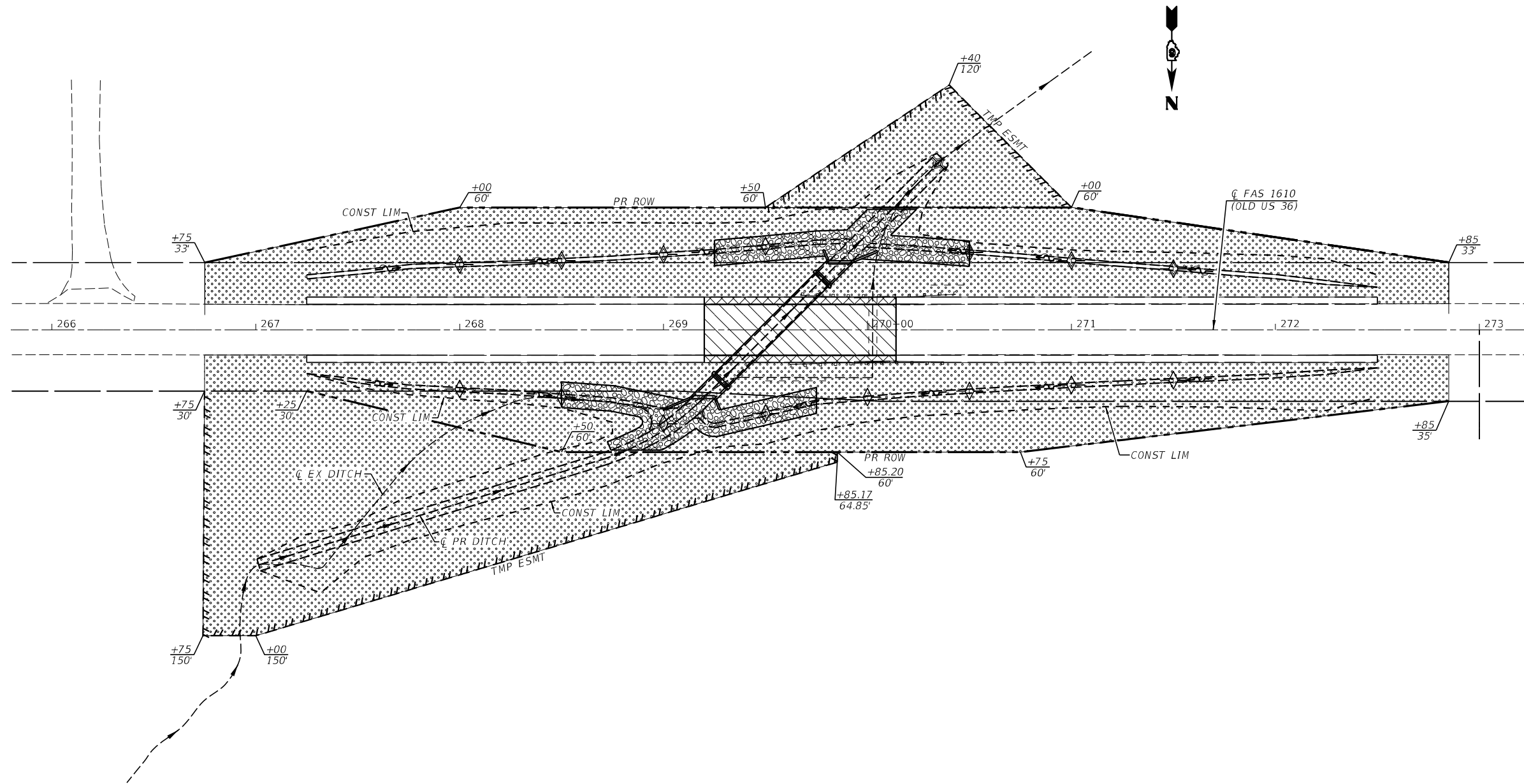
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PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

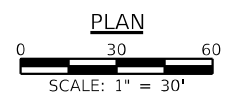
MAINTENANCE OF TRAFFIC
DETOUR PLAN

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	14
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- SEEDING, CLASS 2 & TEMPORARY EROSION CONTROL SEEDING
 - TEMPORARY DITCH CHECK
 - INLET PIPE PROTECTION
 - AGGREGATE DITCH CHECK



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	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1" = 30'	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	15
CONTRACT NO. 72040				
ILLINOIS FED. AID PROJECT				

Benchmark: NGS Survey Disk set in concrete post at IDOT Operations Yard, 43.5' north of centerline of Old Rte 36 and 33.5' east of centerline of entrance. Elevation 580.429

Existing Structure: Original Culvert was built in 1926 as part of S.B.I. Route 36, Section 22. The structure was a single cell 4'-0" H x 4'-0" W Reinforced Concrete Box Culvert, 35'-4" out-to-out of headwalls. The structure was extended by 8'-0" to the north as part of S.B.I. Route 36, Section 22RS, 22X in 1960. The existing length is 43'-4".
Traffic to be detoured. Project will be built under road closure.

No salvage.

WATERWAY INFORMATION

Drainage Area = 0.2 Sq. Mi. Existing Low Grade Elev. 578.6 @ Sta. 269+53
Proposed Low Grade Elev. 578.6 @ Sta. 269+53

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Overtopping (Ex)	10	134	12	21	575.1	2.7	0.6	577.8	575.7
Design	39	200	13	24	575.5	3.1	1.5	578.6	577.0
Base	50	224	14	25	575.6	3.3	1.8	578.9	577.4
Overtopping (Pr)	100	266	15	26	575.8	3.2	2.2	579.0	578.0
Max. Calc.	350	331	16	29	576.0	3.1	2.6	579.1	578.6
	500	370	16	30	576.2	3.0	2.8	579.2	579.0

INDEX OF SHEETS

1. General Plan & Elevation
2. Culvert Plan
- 3-4. Culvert Details
5. Collar Details
6. Soil Boring Logs

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
Reinforcement bars designated (E) shall be epoxy coated.
At least 6 ft. of the barrel shall be poured monolithically with the wingwalls.
The design fill height for this box is 2 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
Precast concrete box culverts shall be backfilled with Granular Culvert Backfill as shown on Sheet 3 of 6. Granular backfill to extend 2 ft. beyond the exterior walls.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

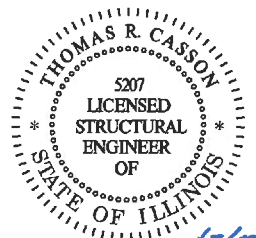
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 5,000 psi
fy = 60,000 psi (Reinforcement)

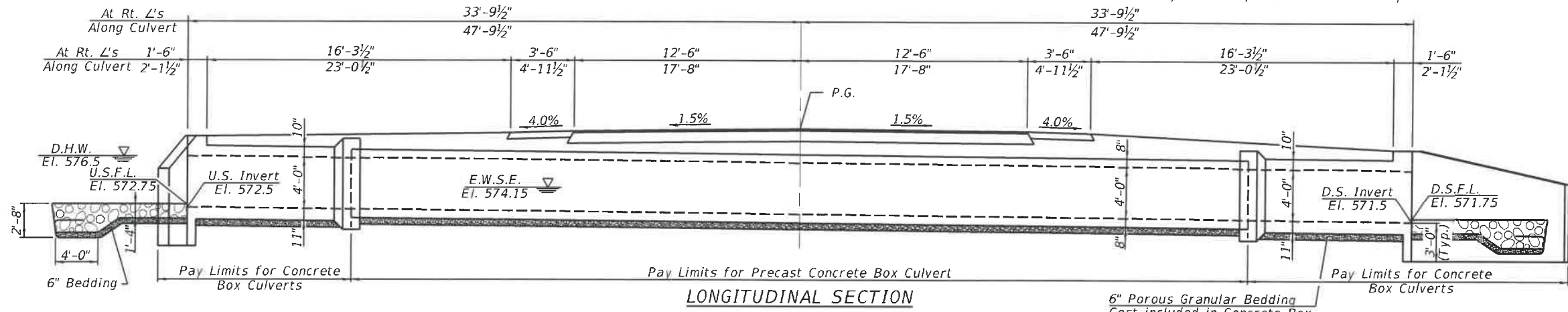
DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.



Thomas R. Casson
Expires: 11/30/2022

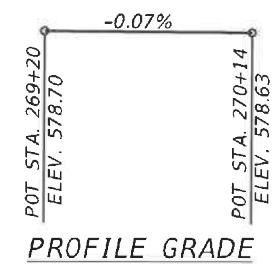
**GENERAL PLAN & ELEVATION
OLD US 36 OVER DRAINAGE DITCH
F.A.S. 1610 - SEC. 22CR
SCOTT COUNTY
STATION 269+53.00
STRUCTURE NO. 086-7050**



LONGITUDINAL SECTION

TOTAL BILL OF MATERIAL

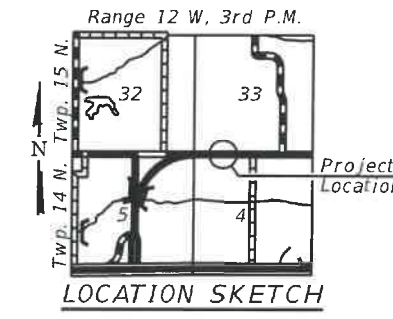
ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Ton	102
Filter Fabric	Sq. Yd.	153
Removal of Existing Structures	Each	1
Reinforcement Bars, Epoxy Coated	Pound	5950
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	33.7
Precast Concrete Box Culverts 8' x 4'	Foot	70
Geocomposite Wall Drain	Sq. Yd.	117
Membrane Waterproofing System for Buried Structures	Sq. Yd.	117
Granular Culvert Backfill	Cu. Yd.	112



PROFILE GRADE

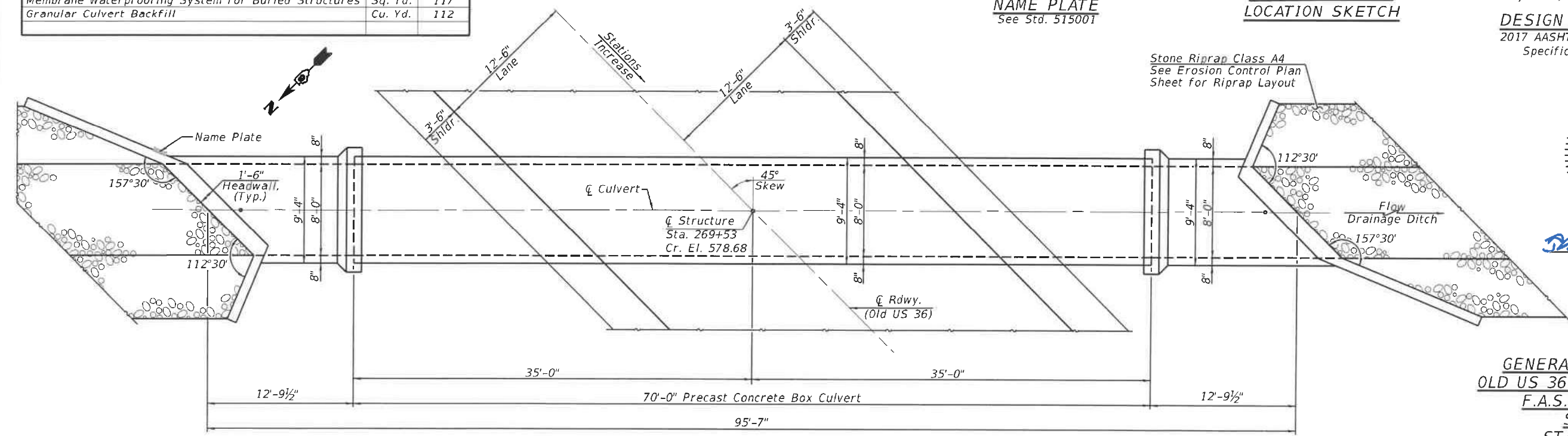
STATION BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE 1610 - SEC. 22CR
LOADING HL-93
STRUCTURE NO. 086-7050

NAME PLATE
See Std. 51500T



LOCATION SKETCH

Stone Riprap Class A4
See Erosion Control Plan
Sheet for Riprap Layout



PLAN



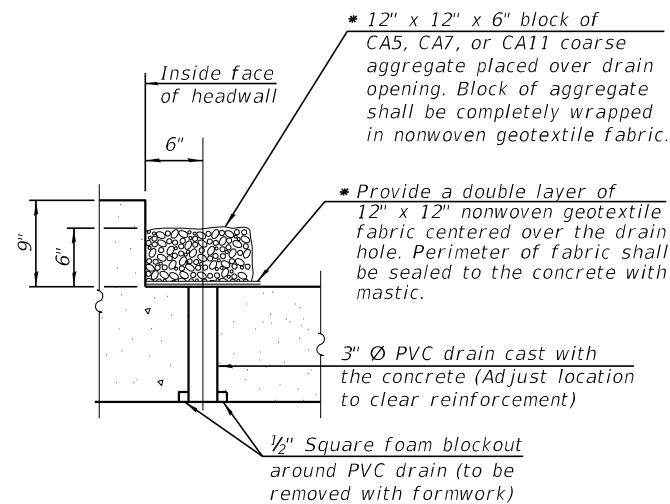
USER NAME	DESIGNED	REVIS
PLOT SCALE	CHECKED	REVIS
PLOT DATE	DRAWN	REVIS
	CHECKED	REVIS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 086-7050**

SHEET NO. 1 OF 6 SHEETS

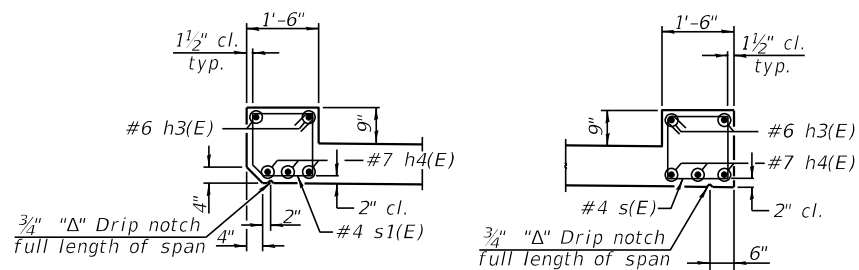
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72D40	



DRAIN DETAIL

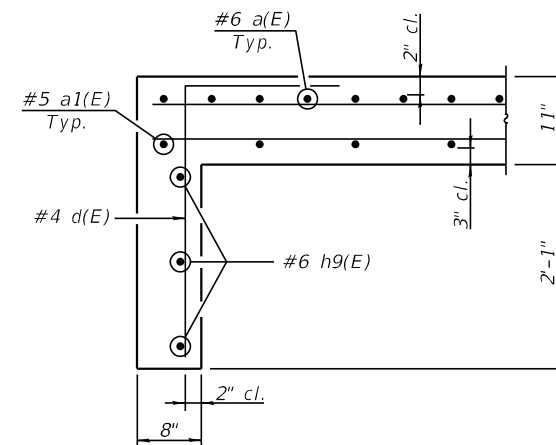
(All costs associated with furnishing and constructing the drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

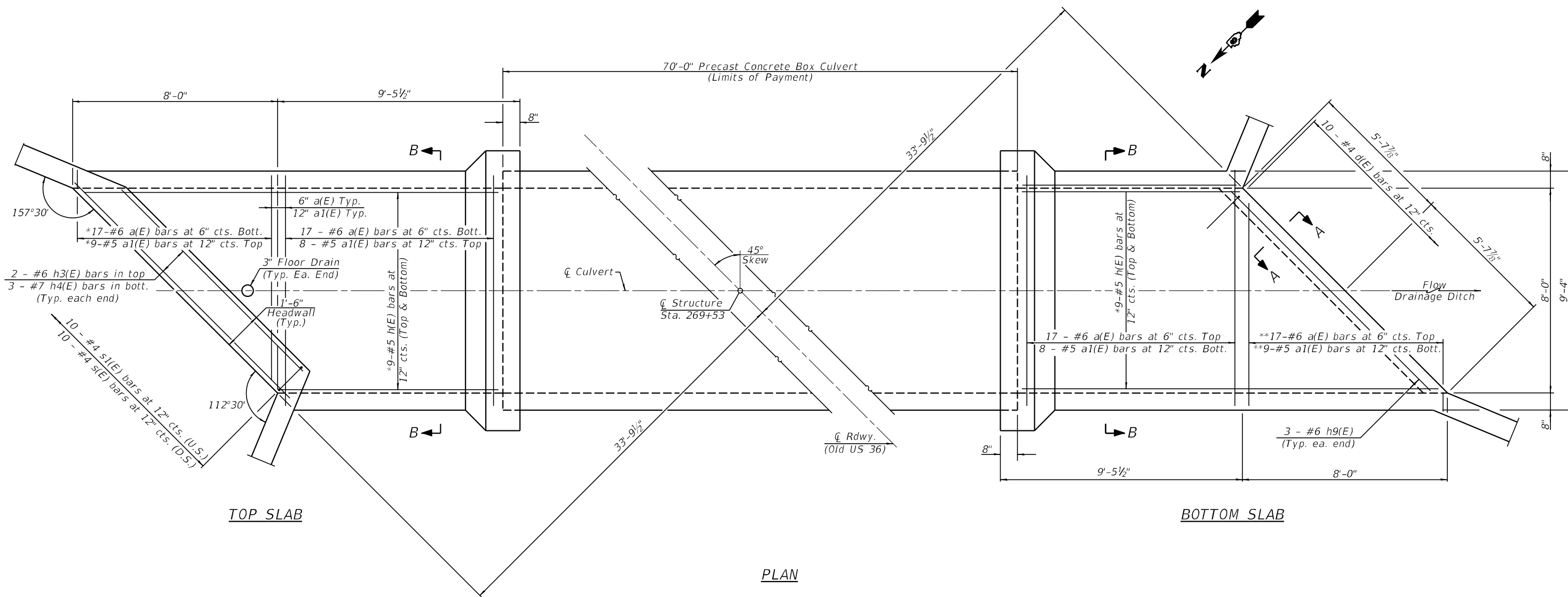


AT UPSTREAM END AT DOWNSTREAM END

HEADWALL SECTION



SECTION A-A



TOP SLAB

BOTTOM SLAB

PLAN

** Cut to fit. Use remainder of bar in opposite end.
At least 6 ft. of the barrel shall be poured monolithically with the wingwalls.



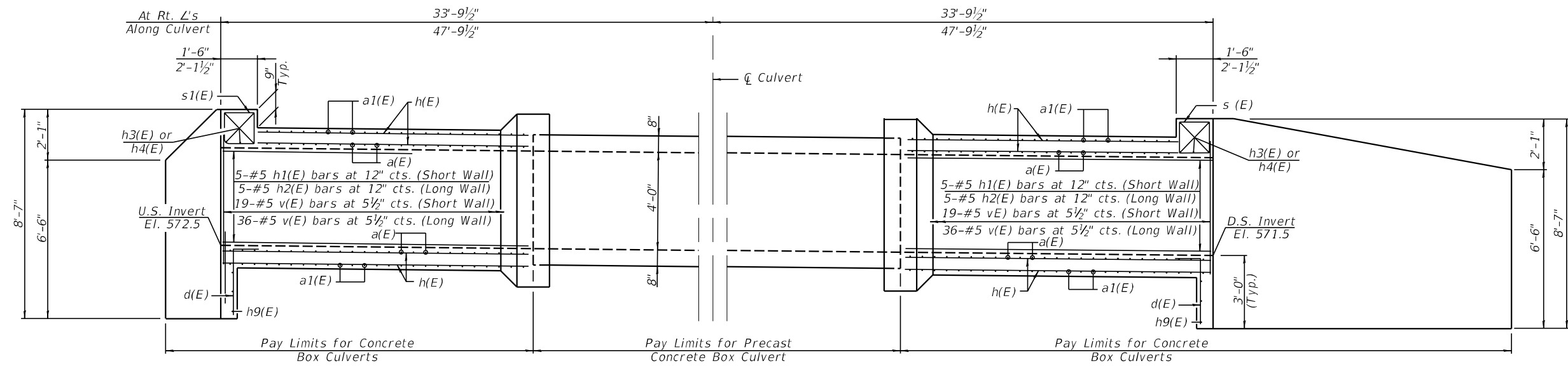
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	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

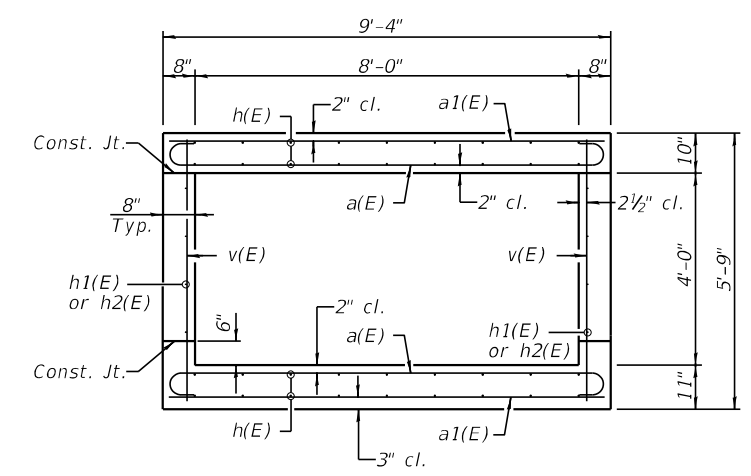
CULVERT PLAN
STRUCTURE NO. 086-7050

SHEET NO. 2 OF 6 SHEETS

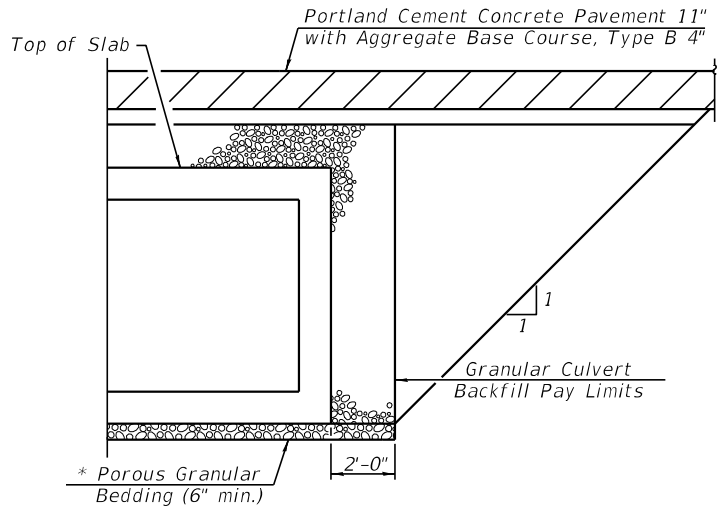
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	17
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				



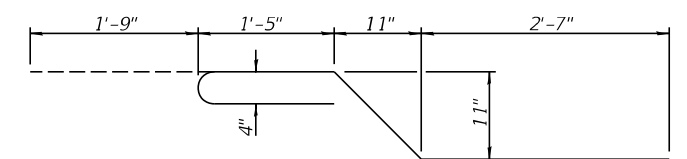
ELEVATION



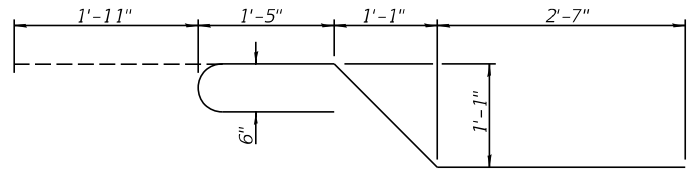
SECTION B-B



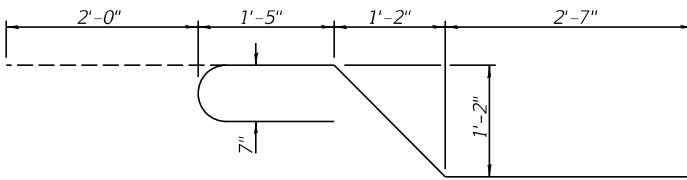
GRANULAR CULVERT BACKFILL DETAIL



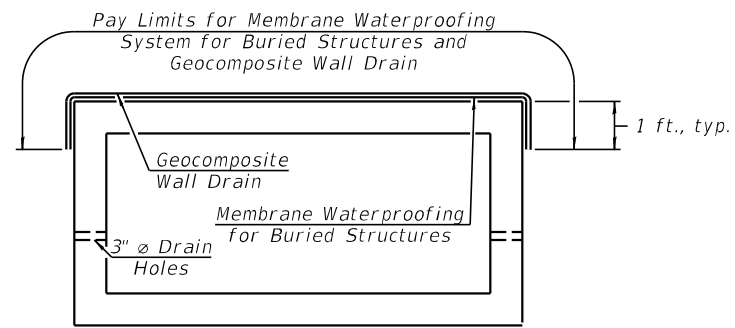
BAR x1(E)



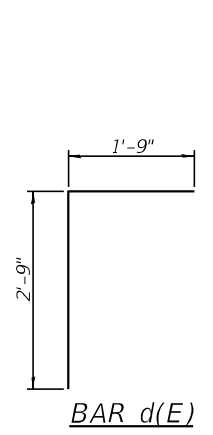
BAR x2(E)



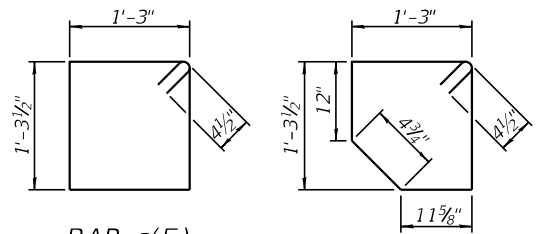
BAR x3(E)



WATERPROOFING MEMBRANE DETAIL

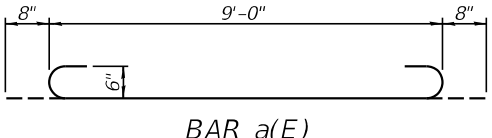


BAR d(E)

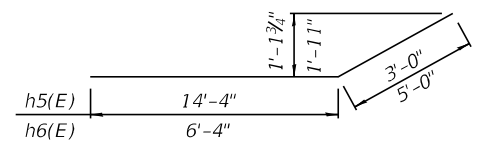


BAR s(E)

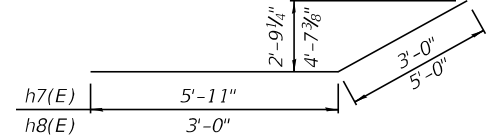
BAR s1(E)



BAR a(E)



BARs h5(E) & h6(E)



BARs h7(E) & h8(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	102	#6	10'-4"	U
a1(E)	50	#5	9'-0"	—
d(E)	20	#4	4'-6"	Γ
h(E)	18	#5	25'-0"	—
h1(E)	10	#5	8'-6"	—
h2(E)	10	#5	16'-7"	—
h3(E)	4	#6	10'-7"	—
h4(E)	6	#7	10'-7"	—
h5(E)	30	#6	17'-4"	—
h6(E)	22	#6	11'-4"	—
h7(E)	26	#4	8'-11"	—
h8(E)	22	#4	8'-0"	—
h9(E)	6	#6	12'-10"	—
s(E)	10	#4	5'-11"	□
s1(E)	10	#4	5'-9"	□
v(E)	110	#5	5'-5"	—
v1(E)	12	#5	6'-9"	—
v2(E)	18	#5	8'-3"	—
x(E)	12	#4	10'-4"	—
x1(E)	16	#4	7'-1"	—
x2(E)	20	#4	7'-6"	—
x3(E)	20	#4	7'-8"	—

Item	Unit	Quantity
Concrete Box Culverts	Cu. Yd.	33.7
Reinforcement Bars, Epoxy Coated	Pound	5950
Precast Concrete Box Culverts 8' x 4'	Foot	70

* Cost of Porous Granular Bedding included in Concrete Box Culverts & Precast Concrete Box Culverts 8'x4'.



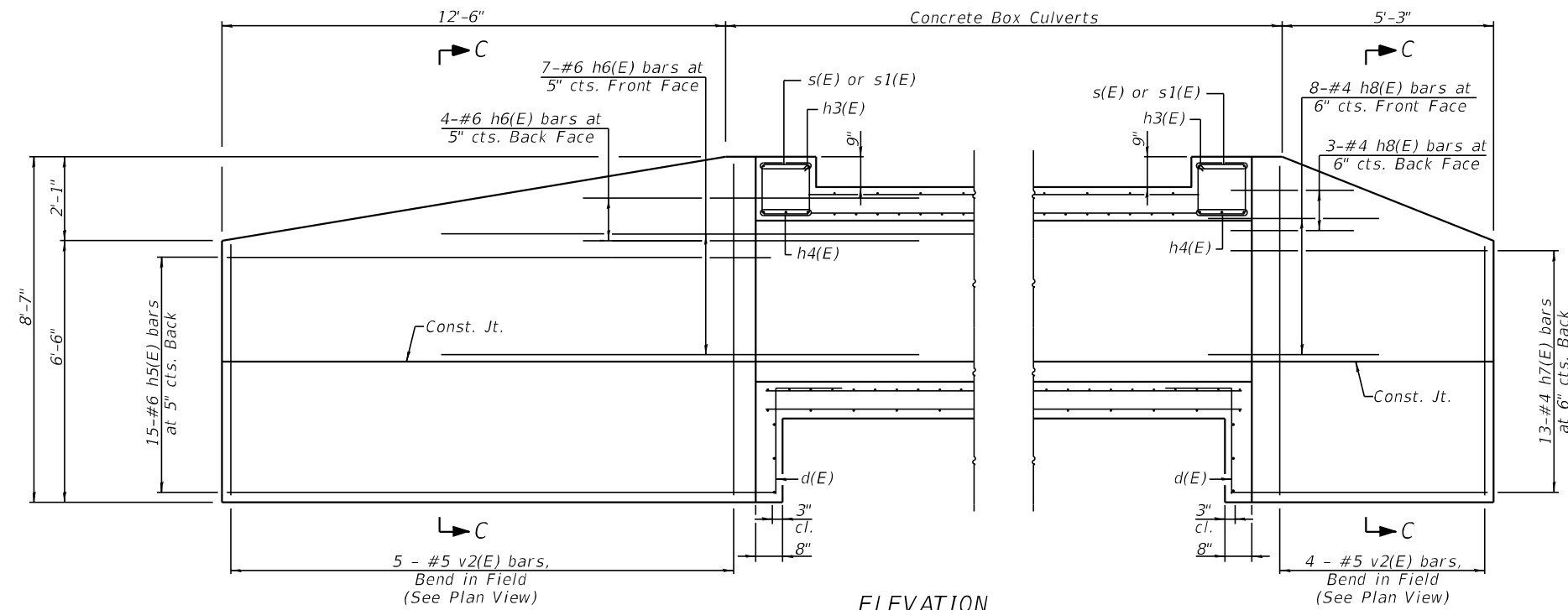
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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

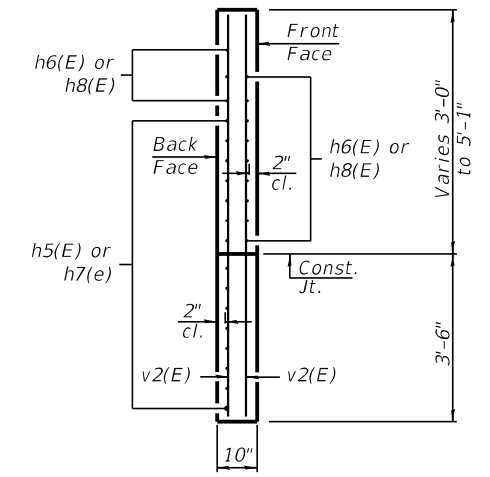
**CULVERT DETAILS
STRUCTURE NO. 086-7050**

SHEET NO. 3 OF 6 SHEETS

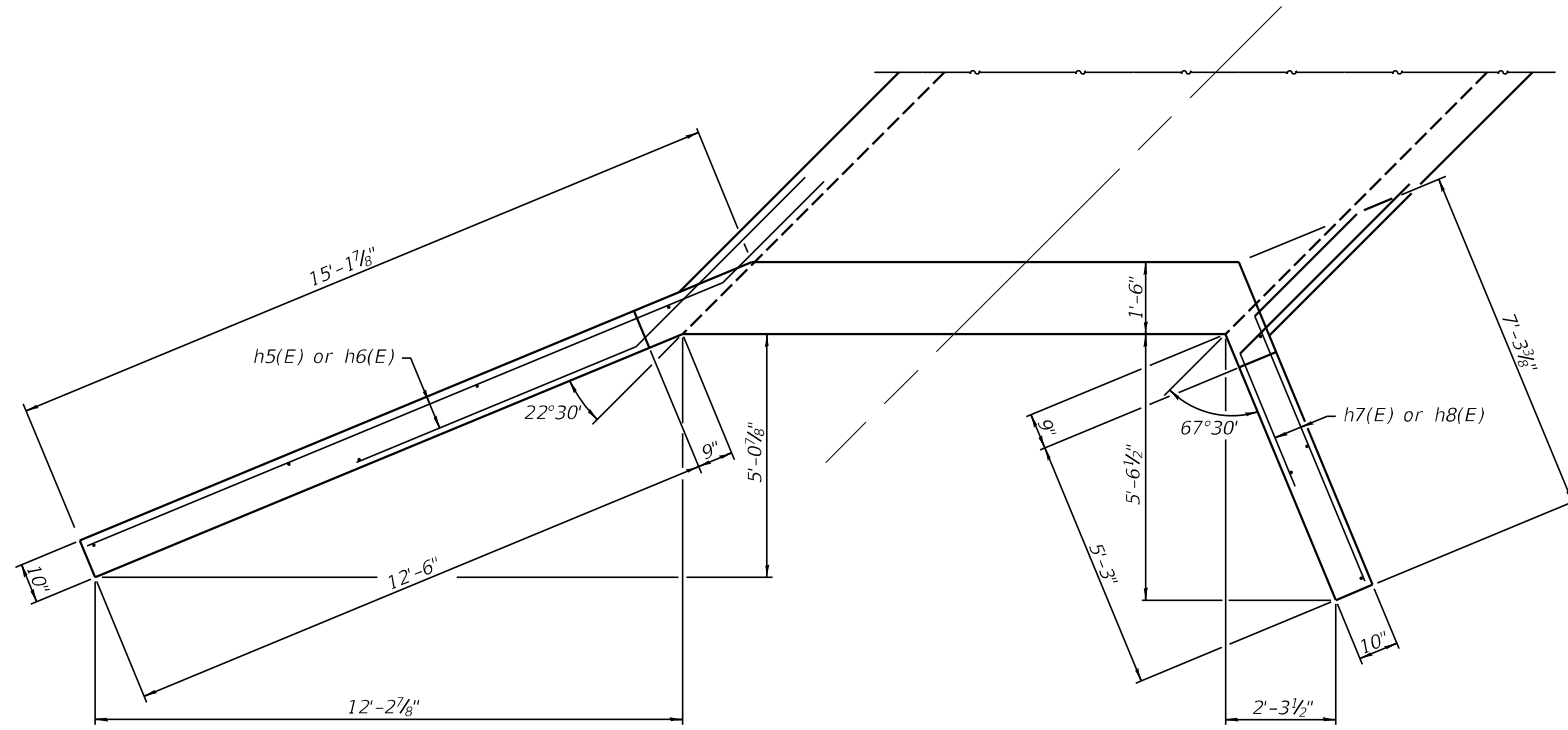
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	18
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				



ELEVATION



SECTION C-C



WINGWALL PLAN

At least 6 ft. of the barrel shall be poured monolithically with the wingwalls.



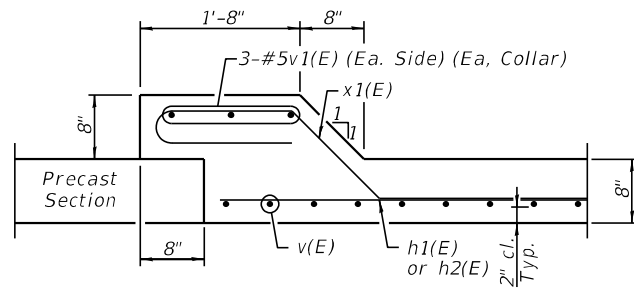
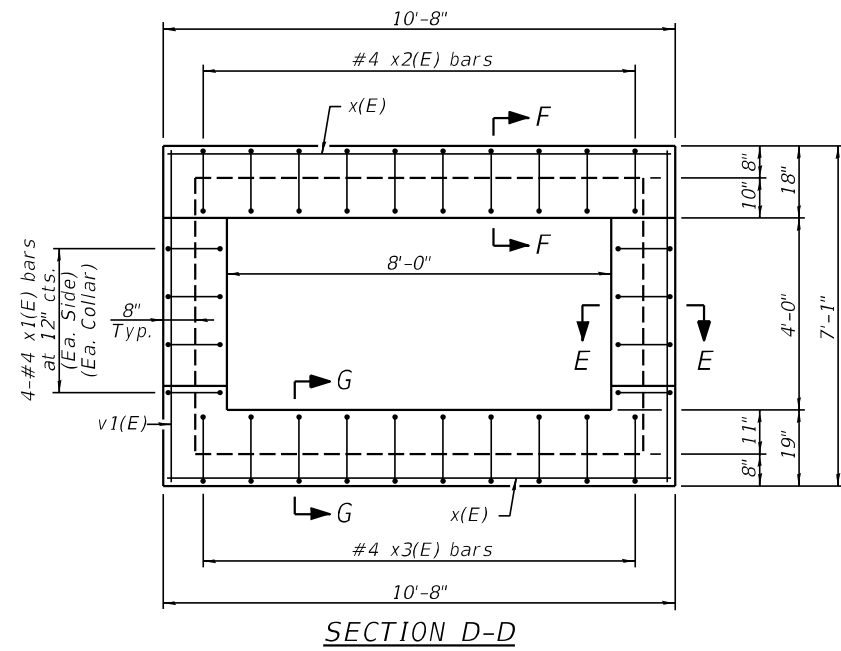
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	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

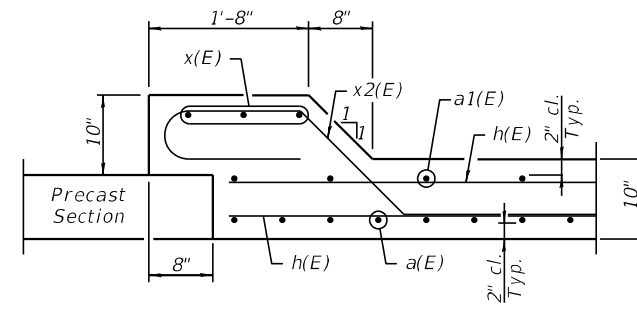
CULVERT DETAILS
STRUCTURE NO. 086-7050

SHEET NO. 4 OF 6 SHEETS

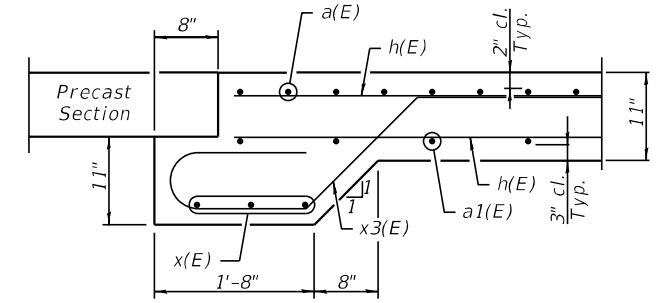
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	19
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				



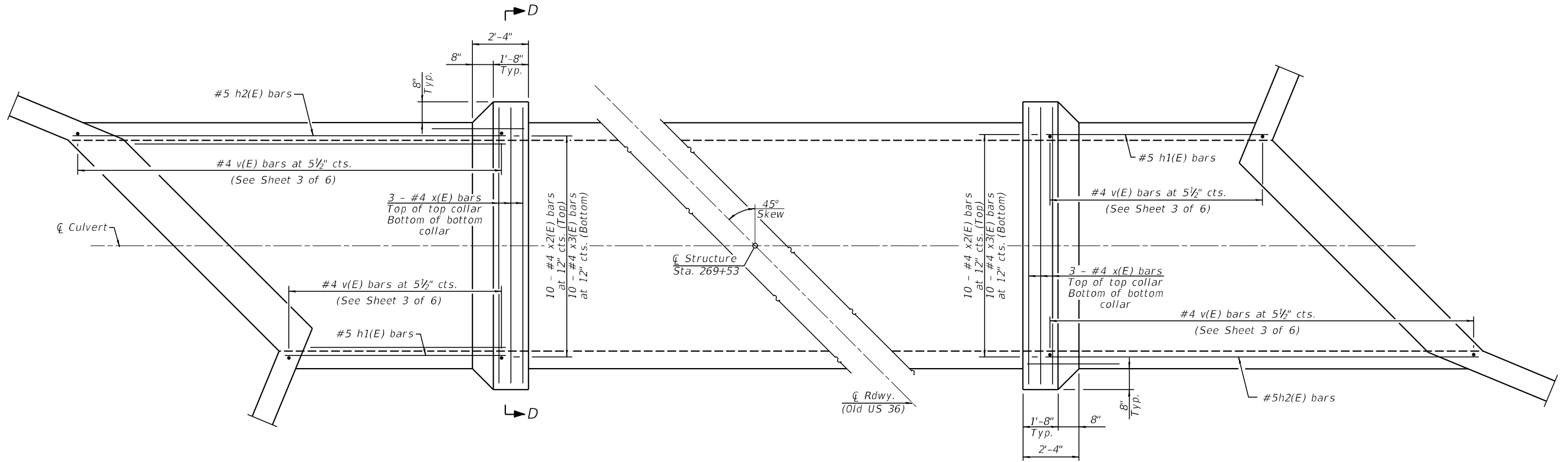
SECTION E-E



SECTION F-F



SECTION G-G



PLAN



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COLLAR DETAILS
STRUCTURE NO. 086-7050

SHEET NO. 5 OF 6 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1610	22CR	SCOTT	31	20
CONTRACT NO. 72D40				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 1

Date 11/23/11

ROUTE Old US 36 DESCRIPTION Over Unnamed Ditch LOGGED BY M. Tappan

SECTION 22CR LOCATION SW 1/4, SEC. 33, TWP. 15N, RNG. 12W, 3 PM

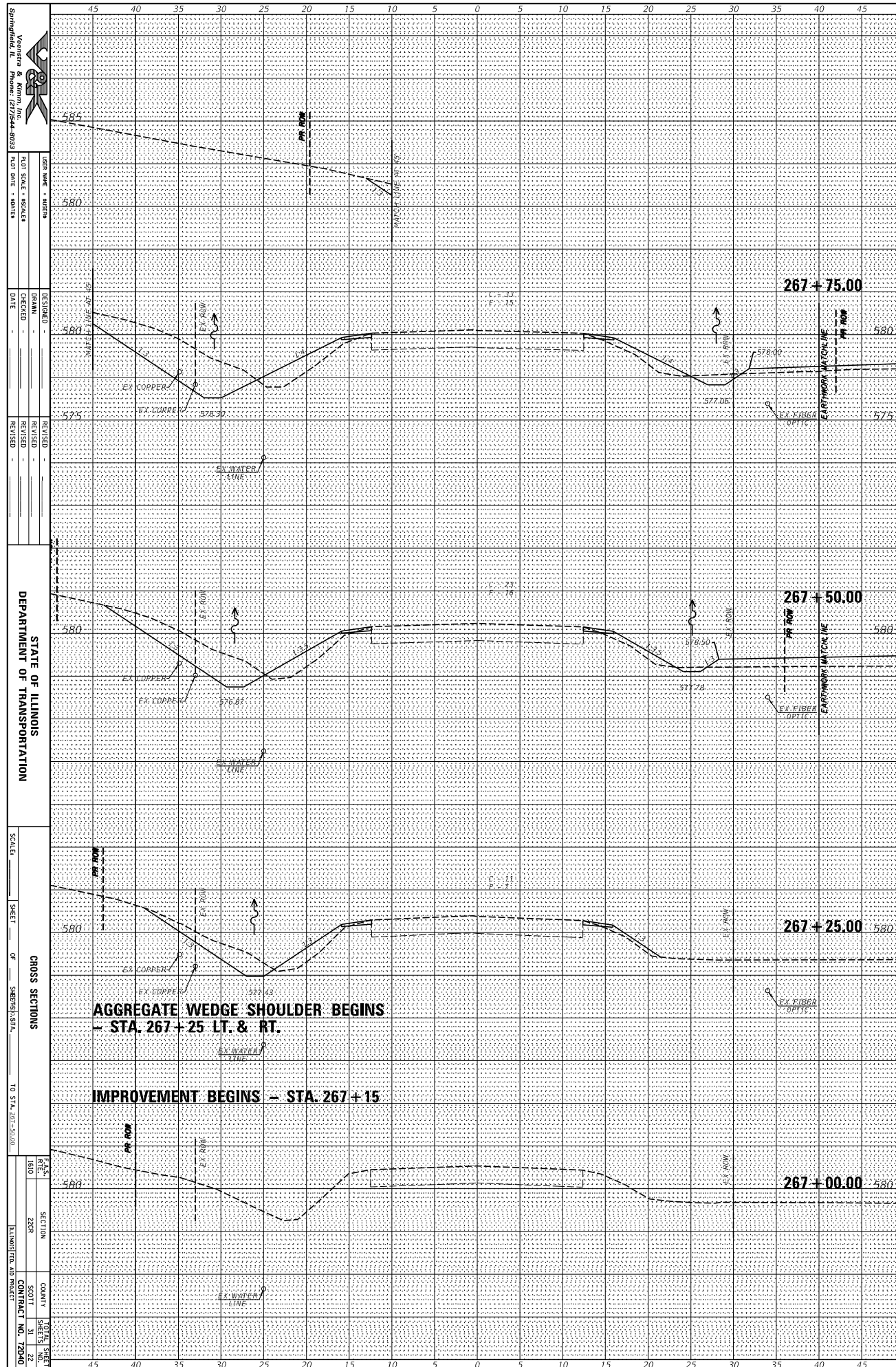
COUNTY Scott DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.		EX SN 086-7047		D		B		U		M		Surface Water Elev.		572.8		ft		D		B		U		M	
Station		270+28		E		L		O		S		Stream Bed Elev.		572.8		ft		E		L		O		S	
BORING NO.		1-NE		P		T		W		S		Groundwater Elev.:						H		S		Qu		T	
Station		269+97		T		H		S		Qu		▽ First Encounter													
Offset		14.0ft RT										▽ Upon Completion		Dry		ft									
Ground Surface Elev.		578.3		ft		(ft)		/6"		(tsf)		▼ After		Plugged		ft		(ft)		/6"		(tsf)		(%)	
Light Gray and Brown Moist SILT LOAM (Fill)						0						Light Gray and Brown Moist CLAY LOAM (Till) (continued)		2											
				1		.80		25				Gray		10		3.4		16							
				2		S-12						Gray Moist SILT LOAM (Till)		555.80											
Very Moist						0								2											
				1		.40		28						6		2.7		25							
				1		B								10		S-10									
Black Moist SILTY CLAY LOAM						573.30		-5				Boring Completed													
						0																			
				1		.70		29																	
				2		B																			
Very Dark Gray Moist SILTY CLAY						570.80																			
						0																			
				1																					
				2		1.2		25																	
				2		B																			
Gray and Brown Moist CLAY (Till)						568.30		-10																	
						0																			
				1																					
				2		1.8		23																	
				4		B																			
Light Brown and Gray Moist SILTY CLAY (Till)						565.80																			
						0																			
				1		1.0		23																	
				2		B																			
Light Gray and Brown Moist CLAY LOAM (Till)						563.30		-15																	
						0																			
				1																					
				4		3.7		18																	
				7		B																			
Light Brown and Gray																									
						2																			
				4		4.1		18																	
				8		B																			
						-20																			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREA		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREA		
	AREAS CHECKED		



Springfield, IL
 Vanover & Kimm, Inc.
 Phone: 217/544-8021
 USER NAME: MURPHY
 PLOT SCALE: HORIZONTAL
 PLOT DATE: 11/11/11
 DESIGNED: MURPHY
 CHECKED: MURPHY
 DATE: 11/11/11
 REVISIONS:
 REVISION NO. DATE BY
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 2 11/11/11 MURPHY
 3 11/11/11 MURPHY
 4 11/11/11 MURPHY
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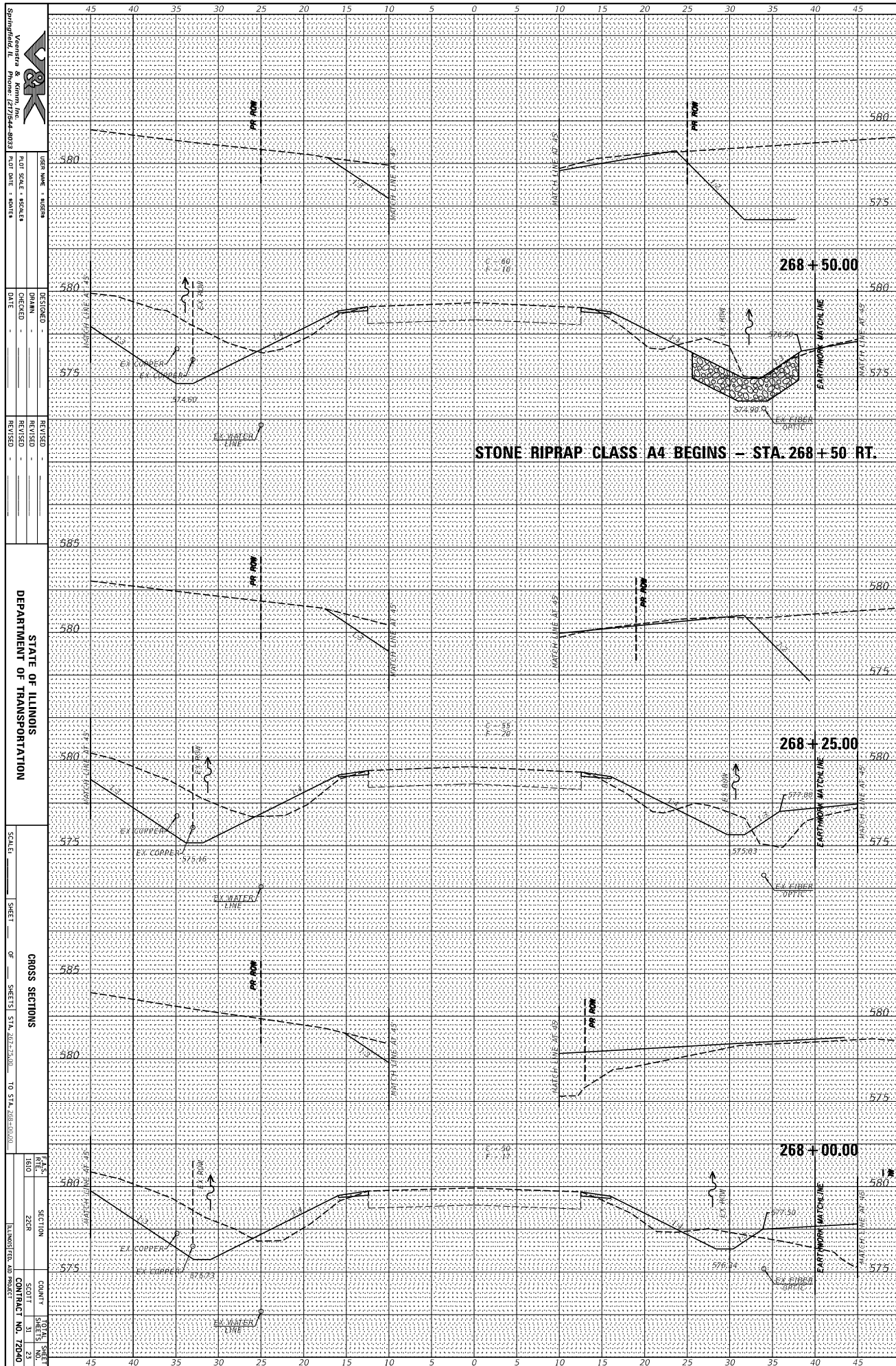
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: _____
SHEET _____ OF _____
CHROSS SECTIONS
TO STA. 267+50.00

PLAN SECTION
 1801 2228
 COUNTY SECTION
 SCOTT 31 22
 CONTRACT NO. 72010

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	PROF.		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	PROF.		
	AREAS CHECKED		



Vannoy & Kimm, Inc.
Springfield, IL
Phone: 217/544-8025

USER NAME	MSB
PLT SCALE	1"=40'
PLT DATE	

DESIGNED	
CHECKED	
DATE	

REVISED	
REVISED	
REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

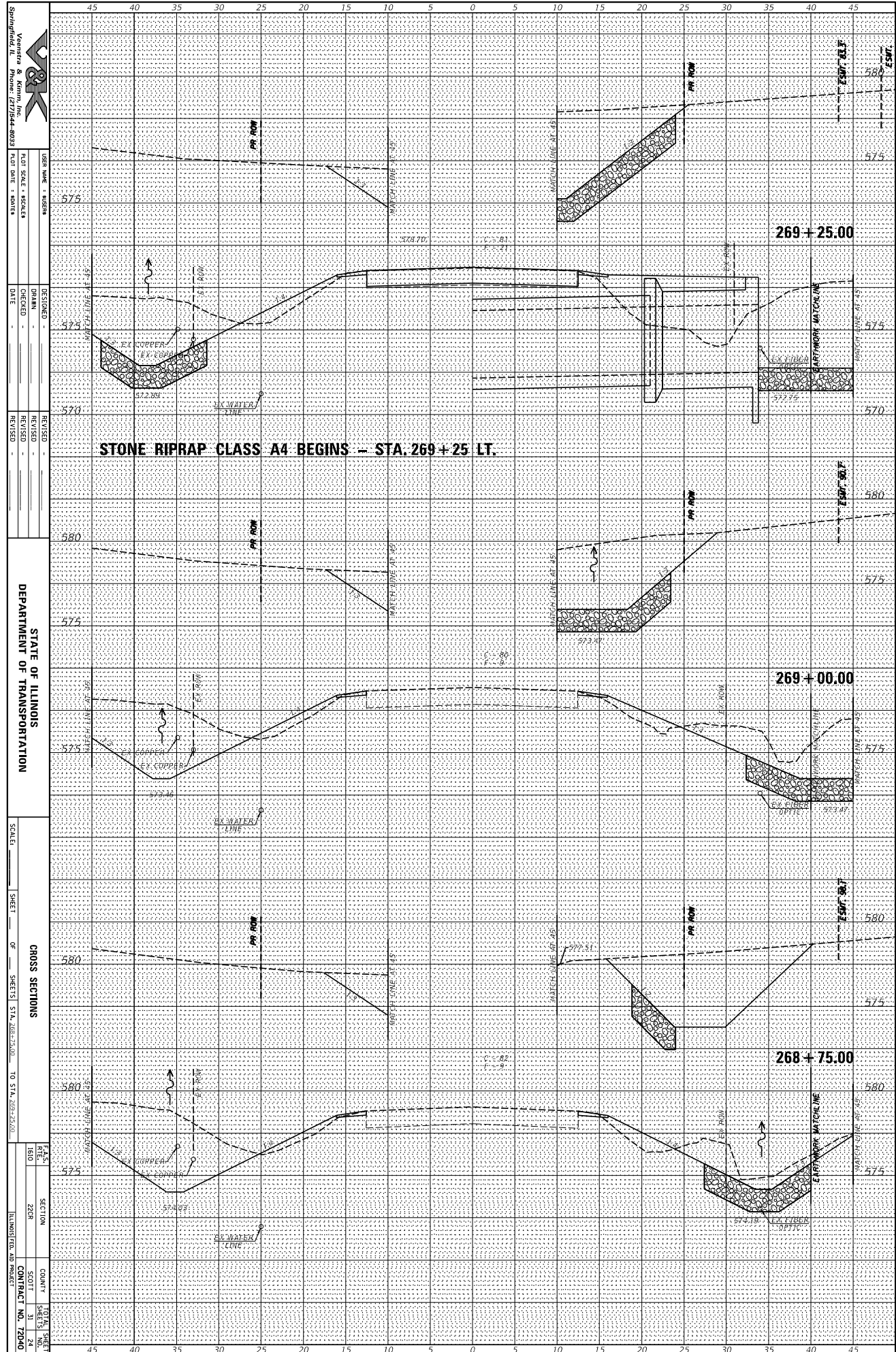
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SHEET	OF
SHEETS	STA. 267+75.00 TO STA. 268+00.00

CROSS SECTIONS

PLAN	
SECTION	
COUNTY	
SCOTT	
CONTRACT NO.	

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NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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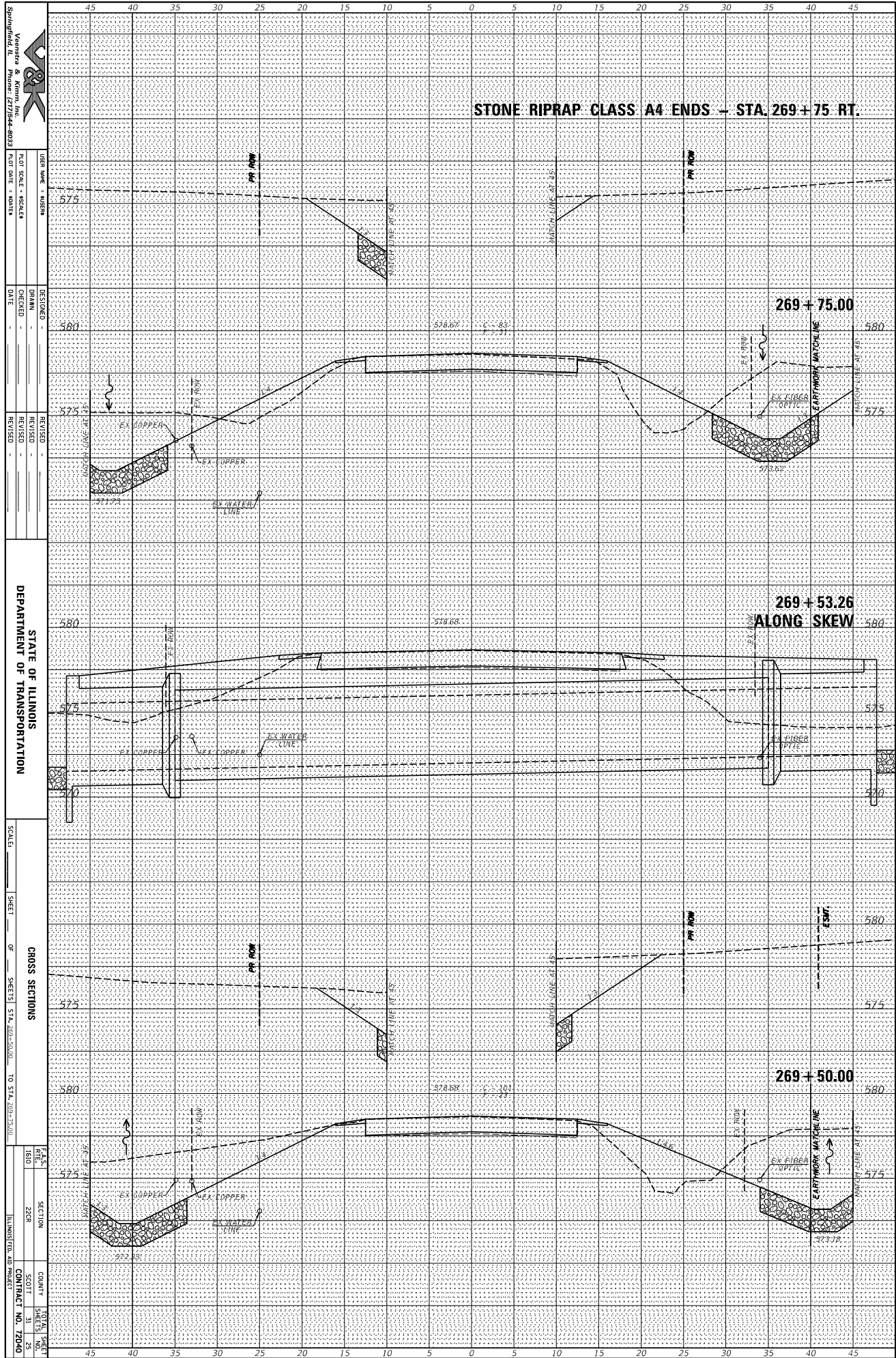
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NOTE BOOK	PLOTTED		
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	AREAS		
	CHECKED		



Springfield, IL
 Vanover & Kimm, Inc.
 Phone: 217/544-8021
 USER NAME: MURPHY
 PLOT SCALE: 1"=20' HORIZ.
 DATE: _____
 DESIGNED: _____
 CHECKED: _____
 REVISIONS: _____
 DEPARTMENT OF TRANSPORTATION
 CHROSS SECTIONS
 SHEET _____ OF _____ SHEETS STA. 268+75.00 TO STA. 269+25.00
 COUNTY: SCOTT
 SECTION: 228R
 CONTRACT NO. 72040

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NOTE BOOK	PLOTTED		
	TEMPLATE		
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	AREAS CHECKED		

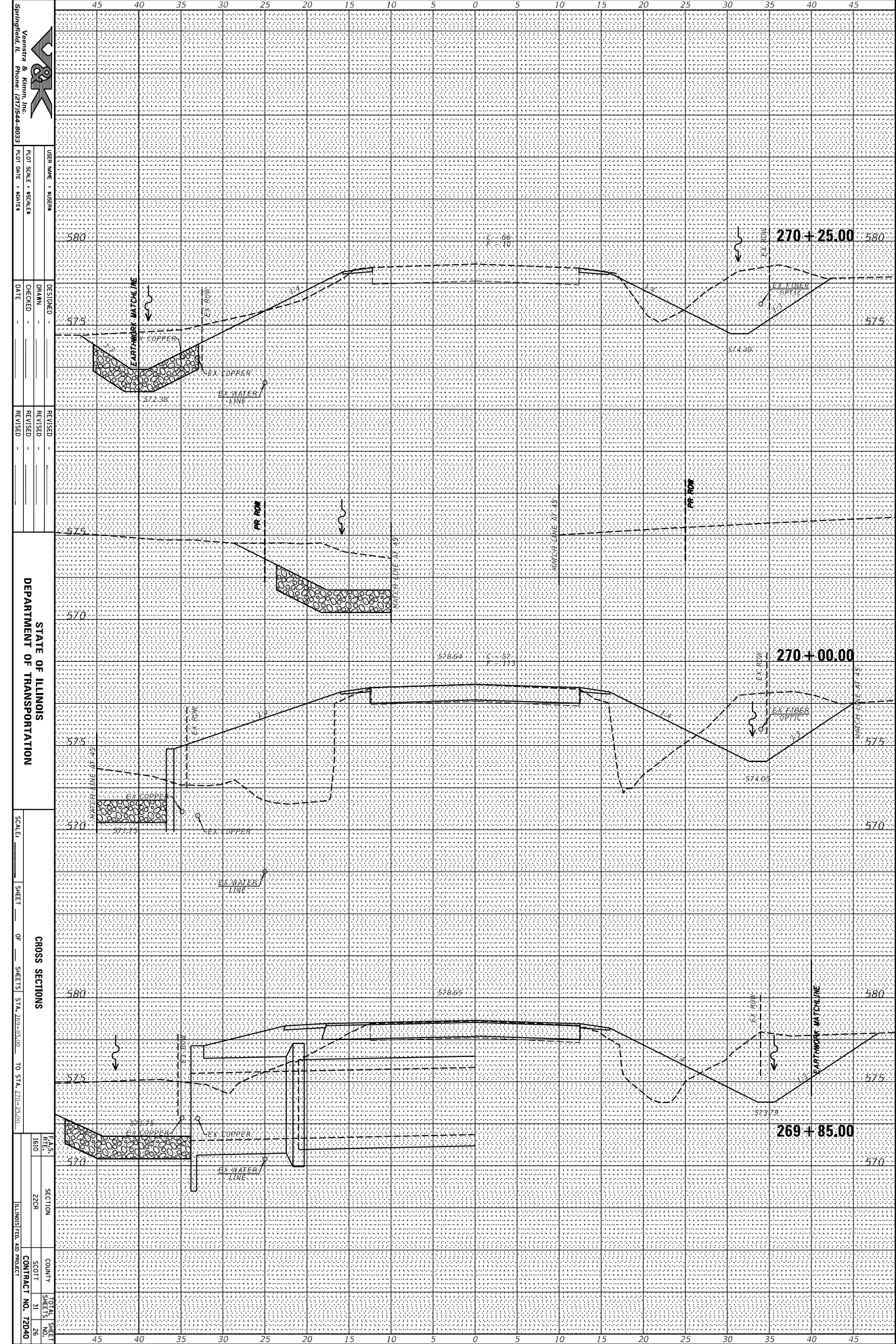
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NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



Springfield, IL
 Vanover & Kinnel, Inc.
 Phone: 217/244-8025
 USER NAME: RUSSEN
 PLOT SCALE: HORIZONTAL
 PLOT DATE: MONTHS
 DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 DATE: _____
 REVISION: _____
 REVISION: _____
 REVISION: _____
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SCALE: _____
 SHEET _____ OF _____ SHEETS
 STA. 269.50+00 TO STA. 269.75+00
 CROSS SECTIONS
 DATE: 1/16/01
 SECTION: 2228
 COUNTY: SCOTT
 CONTRACT NO. 72040

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NOTE BOOK	PLOTTED		
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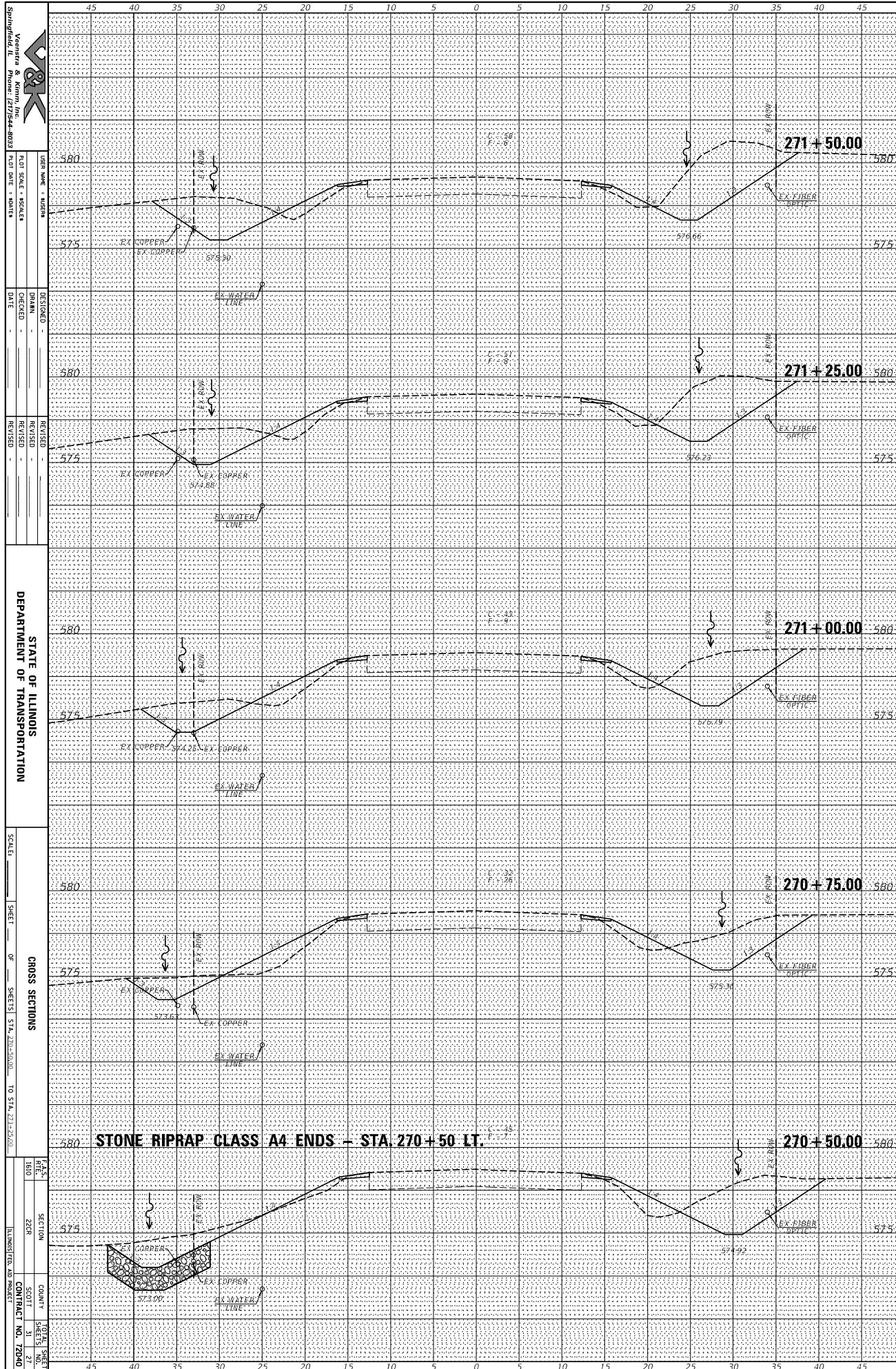
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NOTE BOOK	PLOTTED		
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	AREAS		
	CHECKED		



Springfield, IL
 Vanover & Kimm, Inc.
 Phone: 217/564-8021
 USER NAME: MURPHY
 PLOT SCALE: HORIZONTAL
 PLOT DATE: MONTHS
 DESIGNED: MURPHY
 CHECKED: MURPHY
 DATE: MURPHY
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 REVISIONS: MURPHY
 REVISIONS: MURPHY
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SCALE: MURPHY
 SHEET: MURPHY OF SHEETS STA. 269+25.00 TO STA. 270+25.00
 CROSS SECTIONS
 PLAN: MURPHY
 SECTION: MURPHY
 COUNTY: MURPHY
 CONTRACT NO. 72010

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



Springfield, IL
 Vanover & Kimm, Inc.
 Phone: 217/544-8021

DESIGNED BY: _____
 CHECKED BY: _____
 DATE: _____

REVISIONS:
 1. _____
 2. _____
 3. _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: _____
 SHEET _____ OF _____ SHEETS STA. 270+50.00 TO STA. 271+25.00

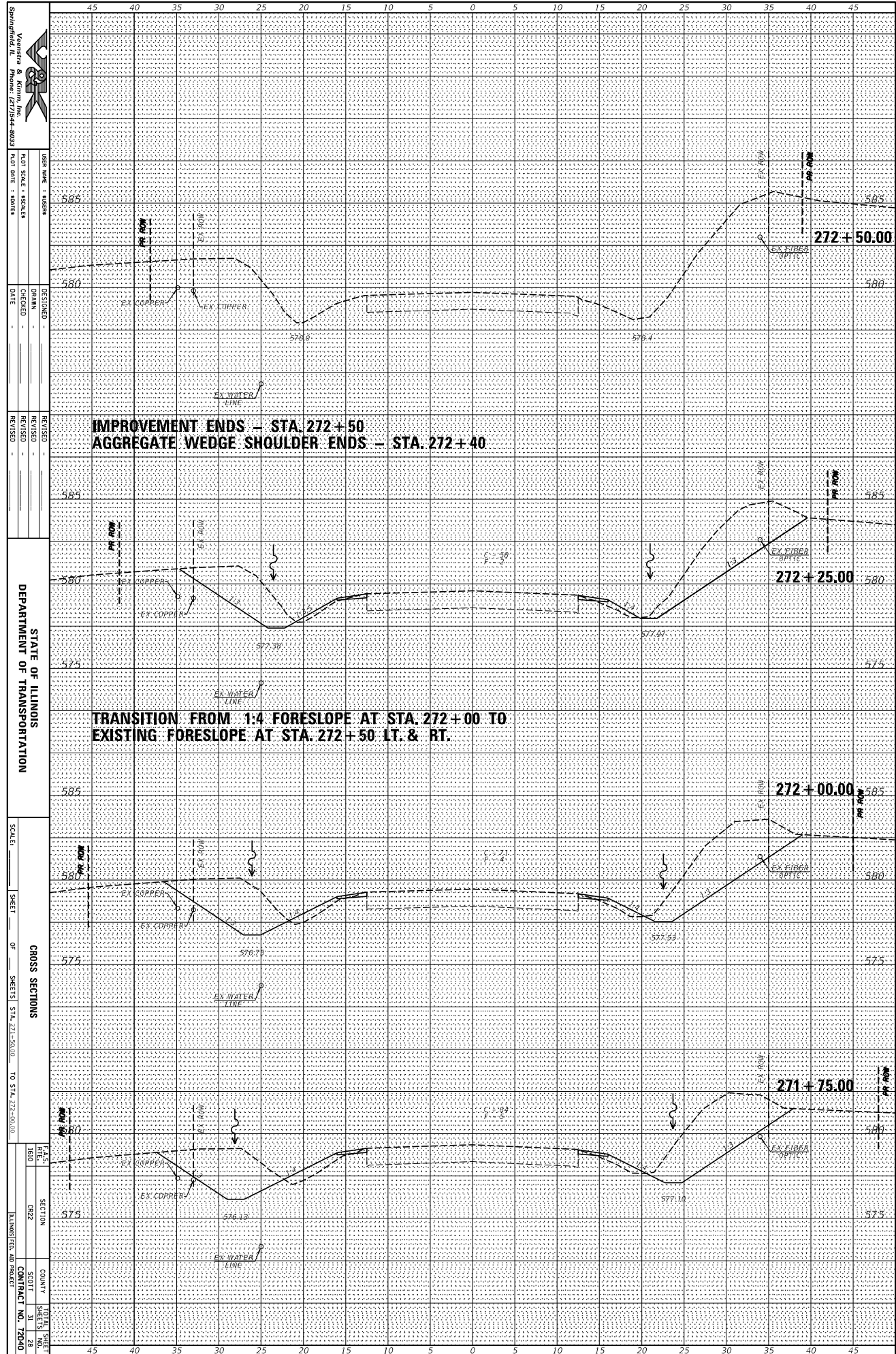
CHROSS SECTIONS

PLAN
 1800
 SECTION
 2228

COUNTY: _____
 DISTRICT: _____
 CONTRACT NO. 72040

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
	AREAS CHECKED		

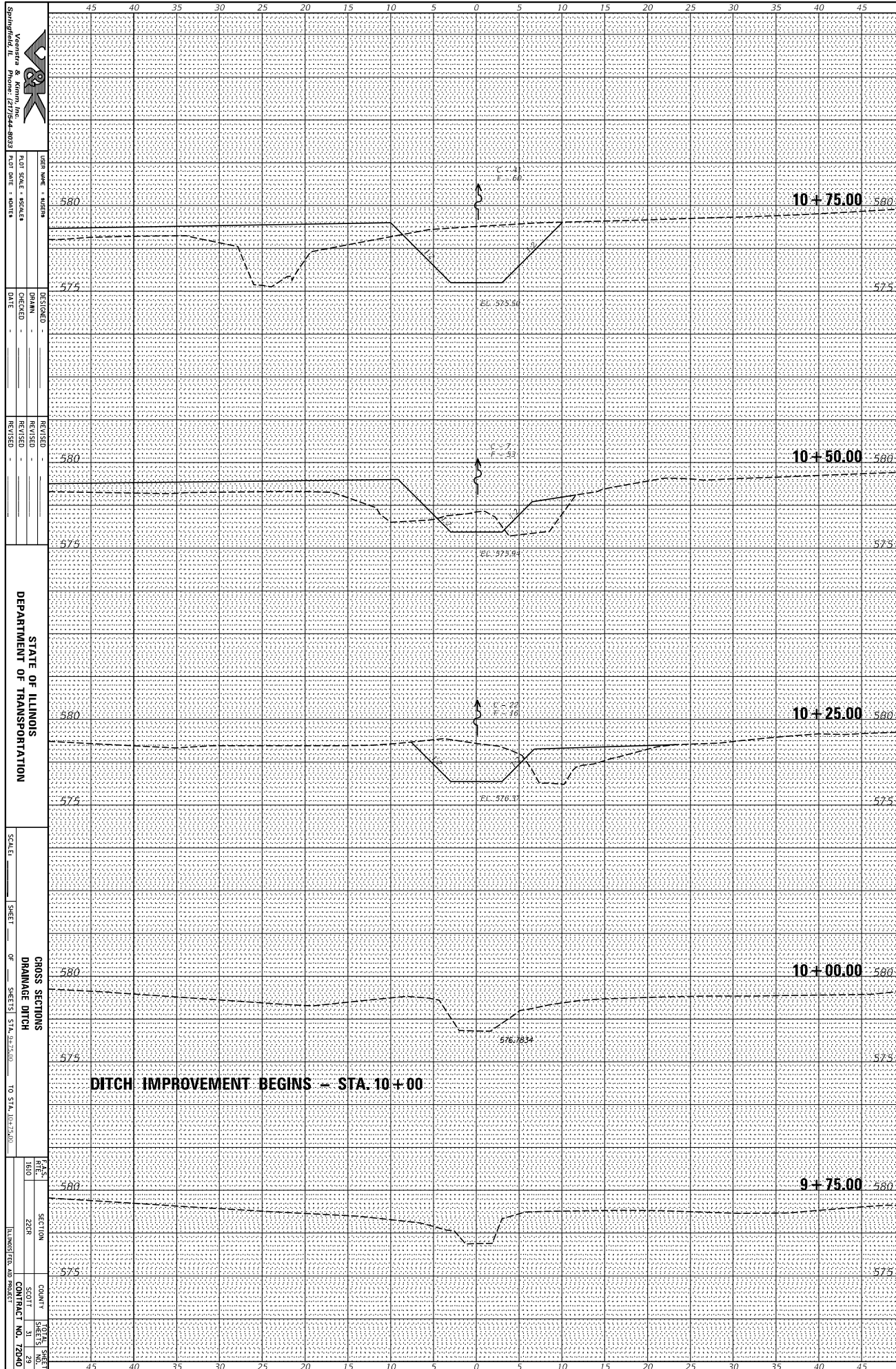
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



Springfield, IL
Vanessa & Kimm, Inc.
 Phone: 217/544-8021
 USER NAME: MURPHY
 PLOT SCALE: 1"=10'
 PLOT DATE: 11/20/11
 DESIGNED: [blank]
 CHECKED: [blank]
 DATE: [blank]
 REVISION: [blank]
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 SCALE: [blank]
 SHEET: [blank] OF [blank] SHEETS STA. 271+50.00 TO STA. 272+00.00
CROSS SECTIONS
 PLAN: [blank]
 SECTION: CR2
 COUNTY: SCOTT
 SHEET NO: 28
 CONTRACT NO: 72010
 ILLINOIS TFD AD PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
	AREAS CHECKED		



Springfield, IL
 Vanover & Kimm, Inc.
 Phone: 217/544-8021

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISIONS
 REVISION
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: _____

SHEET _____ OF _____ SHEETS STA. 9+35.00 TO STA. 10+75.00

CROSS SECTIONS
 DRAINAGE DITCH

P.A.S.
 1801

SECTION
 2208

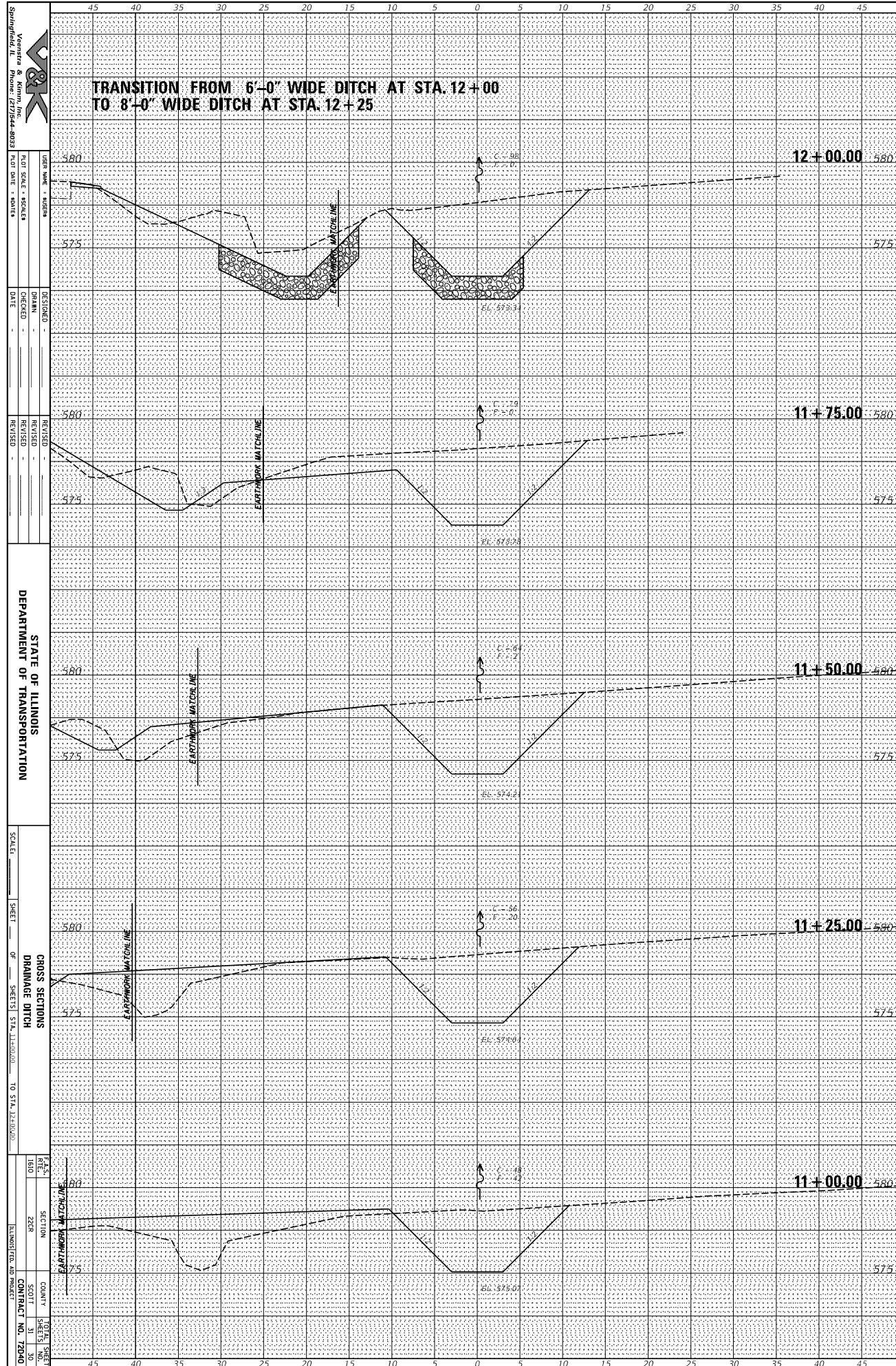
COUNTY
 SCOTT

SHEET NO.
 29

CONTRACT NO.
 72040

ORIGINAL SURVEY	SURVEYED	BY	DATE
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	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



Springfield, IL
 Vanover & Kinnon, Inc.
 Phone: 217/544-8021

DESIGNED BY: _____
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 CHECKED BY: _____
 DATE: _____

REVISIONS:
 REVISION NO. _____
 REVISION DATE _____

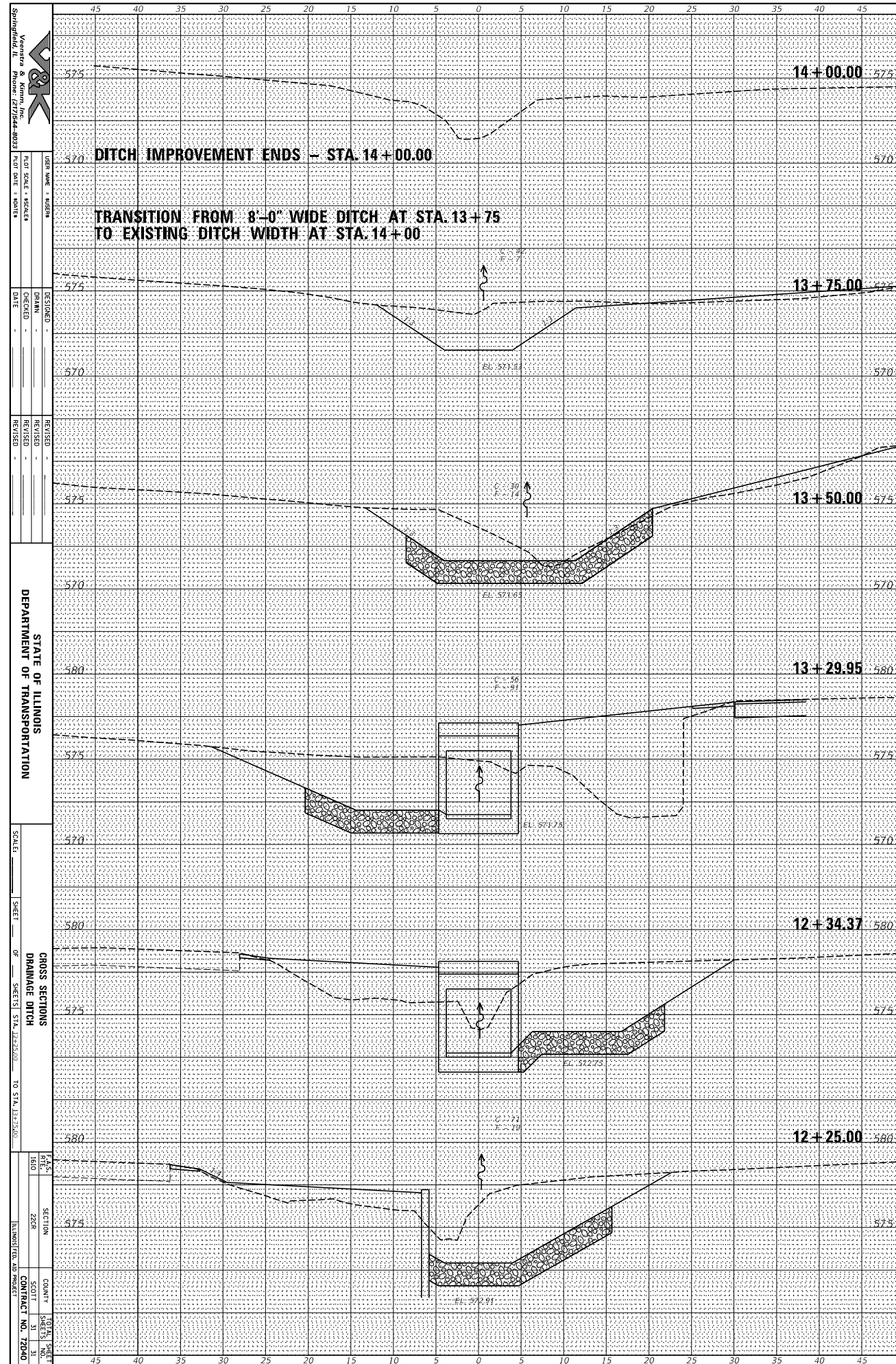
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: _____
 SHEET _____ OF _____ SHEETS
 CROSS SECTIONS
 DRAINAGE DITCH
 FROM STA. 11+00.00 TO STA. 12+00.00

PLANS:
 1801 SECTION 2228
 COUNTY: _____
 CONTRACT NO. 72010

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



Springfield, IL
 Vanover & Kimm, Inc.
 Phone: 217/544-8021

DESIGNED -
 CHECKED -
 DATE -

REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: _____

SHEET _____ OF _____ SHEETS STA. 12+25.00 TO STA. 14+00.00

CROSS SECTIONS
 DRAINAGE DITCH

P.A.S.
 1801

SECTION
 2208

COUNTY
 SCOTT

SHEET
 31

CONTRACT NO. 72010