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LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-07	701206-05
001001-02	701301-04
200001-07	701306-04
402001-02	701311-03
515001-03	701321-17
542401-03	701326-04
638001-12	701801-08
630301-08	704001-08
631046-04	725001-01
666001-01	782006
701006-05	BLR 21-9
701201-05	

LIST OF DISTRICT 4 CADD STANDARDS

205001-04
406101-04
406301-04
630101-04
780001-04

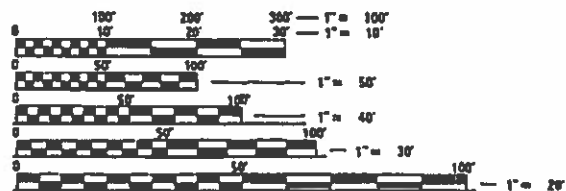
DESIGN DESIGNATION
MAJOR COLLECTOR
CLASS II LOCAL TRUCK ROUTE

TRAFFIC DATA

048-1002 / 048-2503 IL 167
EXISTING ADT = 1,250 (2017)
%SU = 5.6%
%MU = 2.4%
UNPOSTED SPEED

048-1004 / 048-2504 IL 167
EXISTING ADT = 1,800 (2017)
%SU = 9.3%
%MU = 4.0%
POSTED SPEED LIMIT = 50 MPH

THE IMPROVEMENT IS LOCATED WITHIN THE VILLAGE OF WATAGA



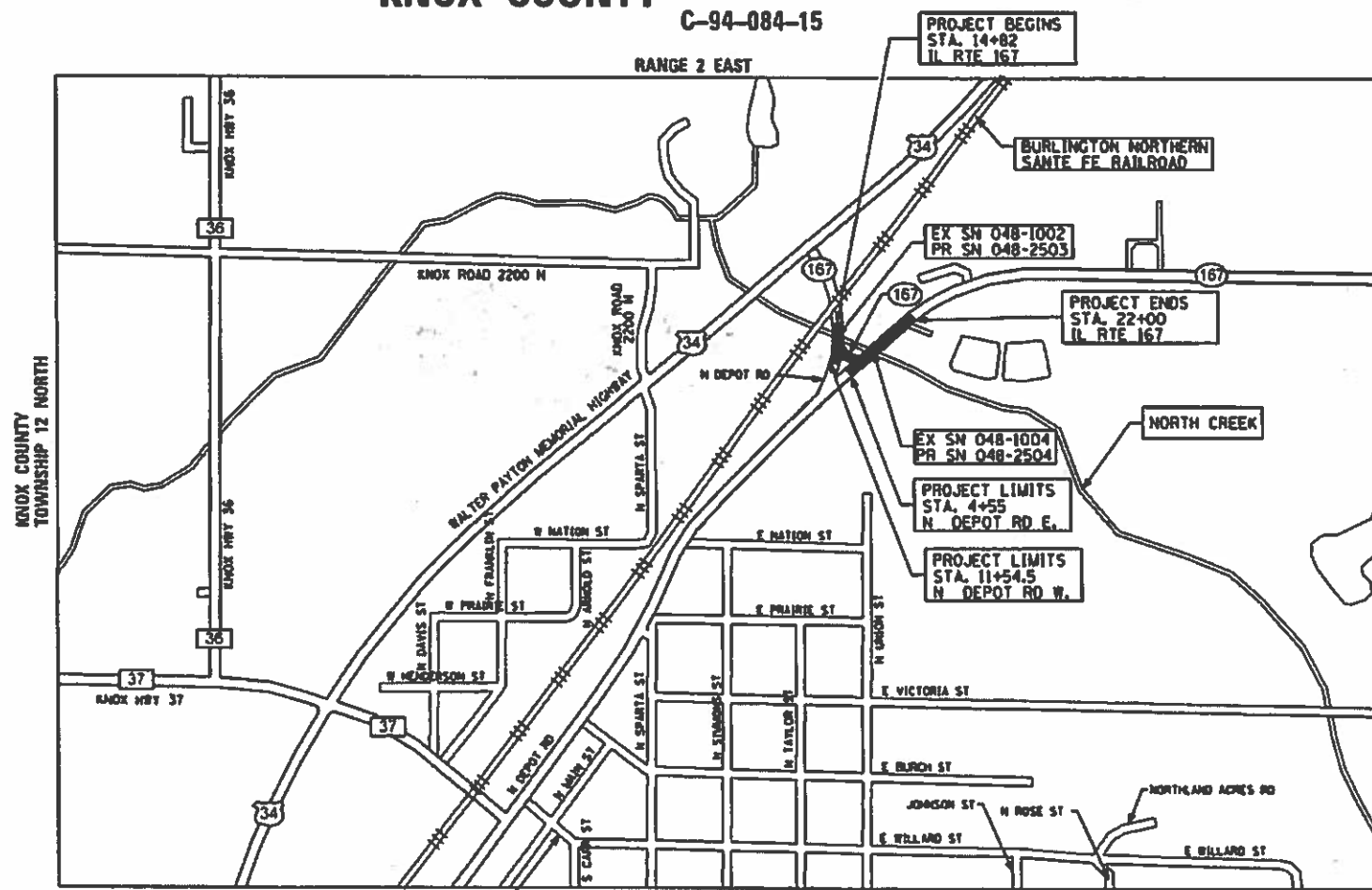
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MIKE LEWIS 309-671-3454
PROJECT MANAGER: ELIAS ELDERZI 309-671-3459
CONTRACT NO. 68C65

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
BOX CULVERT REPLACEMENTS**

FAS ROUTE 379
IL ROUTE 167 OVER NORTH CREEK
EXISTING SN: 048-1002 AND 048-1004
PROPOSED SN: 048-2503 AND 048-2504
SECTION (6,101) CR
PROJECT STP-MZYZ(554)
KNOX COUNTY



IL 167 LENGTH = 718.00 FT. = 0.136 MILE
N. DEPOT ROAD WEST LENGTH = 76.30 FT. = 0.014 MILE
N. DEPOT ROAD EAST LENGTH = 103.00 FT. = 0.020 MILE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	6,101 CR	KNOX	92	1
		ILLINOIS	CONTRACT NO. 68C65	

D-94-046-15



PROFESSIONAL ENGINEER'S SIGN & SEAL
Christalyn P. Kellam 4/5/19
EXPIRES: 11/30/2019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED: *June 24 2019*
Paul A. [Signature]
REGION THREE ENGINEER
Aug 16 2019
ENGINEER OF DESIGN AND ENVIRONMENT
Aug 16 2019
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATUS OF UTILITIES TO BE ADJUSTED

ROUTE/STREET	OFFSET	LOCATION	OWNER	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
IL 167	27' RT.	STA. 5 + 47 (NORTH DEPOT RD)	AMEREN	POLE	EARTHWORK /DITCH CUT	CONFLICT
IL 167	36' LT.	STA. 18 + 90	AMEREN	POLE	EARTHWORK /DITCH CUT CONSTRUCTION	CONFLICT
IL 167	46' LT.	STA. 20 + 09	AMEREN	POLE	EARTHWORK /DITCH CUT	CONFLICT
IL 167	37' LT.	STA. 21 + 27	AMEREN	POLE	EARTHWORK /DITCH CUT	CAUTION
IL 167	28' RT.	STA. 5 + 98 (NORTH DEPOT RD)	AMEREN	NO POLE FOUND		
IL 167	27' LT. AND VAR.	STA. 14 + 82 TO STA. 15 + 85	CENTURY LINK	BURIED COPPER CABLE	EARTHWORK /BENCHING	CONFLICT
IL 167	27' LT.	STA. 15 + 85 TO STA. 16 + 30 ±	CENTURY LINK	BURIED COPPER CABLE	BOX CULVERT	CONFLICT
IL 167	38' LT.	STA. 17 + 11	CENTURY LINK	PEDESTAL	EARTHWORK	CONFLICT
IL 167	38' LT. TO 24' LT.	STA. 17 + 11 TO STA. 18 + 53	CENTURY LINK	BURIED COPPER CABLE	EARTHWORK /BENCHING	CONFLICT
IL 167	24' LT. TO 27' LT.	STA. 18 + 53 TO STA. 18 + 90 ±	CENTURY LINK	BURIED COPPER CABLE	BOX CULVERT	CONFLICT
IL 167	27' LT. AND VAR.	STA. 18 + 90 ± TO STA. 20 + 00 ±	CENTURY LINK	BURIED COPPER CABLE	EARTHWORK /BENCHING	CONFLICT
IL 167	32' LT. AND VAR.	STA. 20 + 00 ± TO STA. 21 + 30 ±	CENTURY LINK	BURIED COPPER CABLE	EARTHWORK /DITCH CUT	CONFLICT
N. DEPOT ROAD /IL 167	26' RT. AND VAR.	STA. 4 + 75 TO STA. 22 + 00	CENTURY LINK	BURIED COPPER CABLE	EARTHWORK /RIPRAP DITCH	CONFLICT

BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE HMA SURFACE COURSE.

PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

CROSSING EXISTING STRUCTURES WITH EQUIPMENT

THE FOLLOWING STRUCTURES SN 055-0015 MAY BE CROSSED WITH MILLING MACHINE. ANY STRUCTURES NOT LISTED ABOVE SHALL BE VERIFIED BY THE RESIDENT PRIOR TO BEGINNING WORK.

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.

RIGHT-OF-WAY MARKERS

WHEN INSTALLING RIGHT-OF-WAY MARKERS, CARE SHALL BE TAKEN TO NOT DISTURB ANY EXISTING PROPERTY/RIGHT-OF-WAY PINS. IF A PROPERTY/RIGHT-OF-WAY PIN IS FOUND AT THE LOCATION OF A PROPOSED RIGHT-OF-WAY MARKER, THE MARKER SHALL BE PLACED ONE (1) FOOT IN FRONT OF THE PIN.

SIGNING

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

PROJECT SPECIFIC NOTES

1. THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIXED ASPHALT MIXTURES ARE PLACED.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
3. NO TREE REMOVAL FROM APRIL 1 TO SEPTEMBER 30.
4. THE RESIDENT ENGINEER SHALL SUBMIT A FINAL COUNT OF TREES REMOVED SO THAT THEY WILL BE PROPERLY REPLACED IN THE TREE BACKING PROGRAM. PLEASE CONTACT SUSAN DAVIS AT 309-671-4485 FOR FINAL COUNT.
5. AT ANY TIME IF ANY PERSONNEL OR MACHINERY ENCROACHES ON THE RAILROAD PROPERTY ANY FINES INCURRED FOR THIS ACTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CALCULATION FACTORS

AGGREGATE SHOULDERS AND BASES: 0.05833 TON /SQ YD /INCH
 HOT MIX ASPHALT: 0.056 TON /SQ YD /INCH
 TEMPORARY EROSION CONTROL SEEDING: 100 LBS /ACRE
 STONE DUMPED RIPRAP: 1.5 TON /CU YD
 GUARDRAIL AGGREGATE EROSION CONTROL: 1.5 TON /CU.YD.
 POLYMERIZED TACK COAT – 0.08 LB /SQ. FT. (MILLED SURFACES)
 – 0.04 LB /SQ. FT. (FOG COAT)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE COURSE (1.5") AND BINDER COURSE	BASE COURSE (LOWER LIFTS)	LEVEL BINDER (1")	SHOULDERS (LOWER LIFTS)	SHOULDERS (SURFACE LIFT)
AC /PC	PG 64-22	PG 64-22	SBS OR SBR 76-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% AT N=50	4.0% AT N=50	4.0% AT N=50	4.0% AT N=50	4.0% AT N=50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0	IL 4.75	IL 19.0	IL 9.5
FRICTION AGGREGATE	MIX C	NA	NA	NA	MIX C
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA	QCQA

- NOTE: 1) INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 2) FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES IS DETERMINED TO BE 112.0 LBS./Y³/IN., UNLESS OTHERWISE NOTED.
 3) SUBLOT SIZES FOR PFP AND QCP MIXES WILL BE 1000 TONS, UNLESS OTHERWISE AGREED TO BY THE ENGINEER AND THE PAVING CONTRACTOR.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, COMMITMENTS &
PROJECT SPECIFIC GENERAL NOTES**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	3
CONTRACT NO. 68C65			ILLINOIS FED. AID PROJECT	

STATUS OF UTILITIES TO BE ADJUSTED

ROUTE/STREET	OFFSET	LOCATION	OWNER	TYPE OF UTILITY	TYPE OF CONFLICT	DISPOSITION
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IL 167	27' LT. AND VAR.	STA. 18 + 90 ± TO STA. 20 + 00 ±	CENTURY LINK	BURIED COPPER CABLE	EARTHWORK /BENCHING	CONFLICT
IL 167	32' LT. AND VAR.	STA. 20 + 00 ± TO STA. 21 + 30 ±	CENTURY LINK	BURIED COPPER CABLE	EARTHWORK /DITCH CUT	CONFLICT
N. DEPOT ROAD /IL 167	26' RT. AND VAR.	STA. 4 + 75 TO STA. 22 + 00	CENTURY LINK	BURIED COPPER CABLE	EARTHWORK /RIPRAP DITCH	CONFLICT

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3. THE RESIDENT ENGINEER SHALL SUBMIT A FINAL COUNT OF TREES REMOVED SO THAT THEY WILL BE PROPERLY REPLACED IN THE TREE BACKING PROGRAM. PLEASE CONTACT SUSAN DAVIS AT 309-671-4485 FOR FINAL COUNT.
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HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE COURSE (1.5") AND BINDER COURSE	BASE COURSE (LOWER LIFTS)	LEVEL BINDER (1")	SHOULDERS (LOWER LIFTS)	SHOULDERS (SURFACE LIFT)
AC /PC	PG 64-22	PG 64-22	SBS OR SBR 76-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% AT N=50	4.0% AT N=50	4.0% AT N=50	4.0% AT N=50	4.0% AT N=50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0	IL 4.75	IL 19.0	IL 9.5
FRICTION AGGREGATE	MIX C	NA	NA	NA	MIX C
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA	QCQA

- NOTE: 1) INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
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CALCULATION FACTORS

AGGREGATE SHOULDERS AND BASES: 0.05833 TON /SQ YD /INCH
 HOT MIX ASPHALT: 0.056 TON /SQ YD /INCH
 TEMPORARY EROSION CONTROL SEEDING: 100 LBS /ACRE
 STONE DUMPED RIPRAP: 1.5 TON /CU YD
 GUARDRAIL AGGREGATE EROSION CONTROL: 1.5 TON /CU.YD.
 POLYMERIZED TACK COAT – 0.08 LB /SQ. FT. (MILLED SURFACES)
 – 0.04 LB /SQ. FT. (FOG COAT)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, COMMITMENTS &
PROJECT SPECIFIC GENERAL NOTES**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	3
CONTRACT NO. 68C65			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	
				ROADWAY 0004	
20100500	TREE REMOVAL, ACRES	ACRE	0.5	0.5	
20200100	EARTH EXCAVATION	CU YD	2119	2119	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	54	54	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1681	1681	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	649	649	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	3002	3002	
25000210	SEEDING, CLASS 2A	ACRE	1.0	1.0	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90	
25100115	MULCH, METHOD 2	ACRE	1.0	1.0	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	3002	3002	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	
28000305	TEMPORARY DITCH CHECKS	FOOT	38	38	



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C65	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	ROADWAY
					0004
28000400	PERIMETER EROSION BARRIER	FOOT	977		977
28000500	INLET AND PIPE PROTECTION	EACH	1		1
28100207	STONE RIPRAP, CLASS A4	TON	480		480
28100227	STONE RIPRAP, CLASS B4	TON	289		289
28200200	FILTER FABRIC	SO YD	1393		1393
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	505		505
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	339		339
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SO YD	255		255
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	1088		1088
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	108		108
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	524		524
40602978	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N50	TON	149		149
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	204		204
44000100	PAVEMENT REMOVAL	SO YD	339		339



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C65	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	ROADWAY 0004
44000400	GUTTER REMOVAL	FOOT	483		483
48101200	AGGREGATE SHOULDERS, TYPE B	TON	96		96
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	959		959
48203100	HOT-MIX ASPHALT SHOULDERS	TON	43		43
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	40		40
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	406		406
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	86720		86,920
50800515	BAR SPLICERS	EACH	106		106
51500100	NAME PLATES	EACH	2		2
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	883		883
52200600	GEOTEXTILE RETAINING WALL	SO FT	245		245
54003000	CONCRETE BOX CULVERTS	CU YD	479.1		479.1



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C65	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	ROADWAY
					0004
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	64		64
54213450	END SECTIONS 15"	EACH	4		4
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	800		800
* 63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	2		2
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4
63200310	GUARDRAIL REMOVAL	FOOT	507		507
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	14		14
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9		9
67100100	MOBILIZATION	L SUM	1		1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	10		10
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1
70106700	TEMPORARY RUMBLE STRIPS	EACH	15		15
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4334		4334
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	36		36

*= SPECIALTY ITEM



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PLOT SCALE =	DRAWN -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C65	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	ROADWAY 0004
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	3098	3098	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	875	875	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	400	400	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4334	4334	
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	36	36	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	374	374	
▪ X0328001	REGENERATIVE AIR SWEEPER	SO YD	1896	1896	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	1896	1896	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	28	28	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	1033	1033	

*= SPECIALTY ITEM



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101) CR	KNOX	92	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C65	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE	ROADWAY 0004
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	54		54
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	114		114
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
∅ Z0076600	TRAINEES	HOUR	1000		1000
Z0022800	FENCE REMOVAL	FOOT	557		557
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000		1000
• Z0054500	ROCK FILL	TON	1039		1039

*= SPECIALTY ITEM ∅ 0042

EARTHWORK				
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 11+54.5 TO STA. 12+00 (N. DEPOT RD. W.)	18	13	1	12
STA. 4+55 TO STA. 5+35.62 (N. DEPOT RD. E.)	52	39	9	30
STA. 5012.3 TO 5373 (CHANNEL EXCLUDING CULVERTS)	271	203	79	124
STA. 18+25 TO STA. 22+00 (IL 167 STAGE II)	485	364	966	-602
STA. 14+82 TO STA. 22+00 (IL 167 FINAL)	1293	970	550	420
TOTAL	2119	1589	1605	-16

NOTE: NO FURNISHED EXCAVATION WILL BE REQUIRED AS THE EXCAVATION FOR STONE RIPRAP, CLASS B4 WILL BE ADEQUATE FOR THIS QUANTITY.

X0328001 REGENERATIVE AIR SWEEPER	
LOCATION	REGENERATIVE AIR SWEEPER SQ. YD.
STA. 15+27 TO STA. 21+55	1771
STA. 5+10 TO STA. 5+36 (N. DEPOT RD. E.)	96
STA. 12+22 TO STA. 12+30 (N. DEPOT RD. W.)	29
TOTAL	1896

20100500 TREE REMOVAL	
LOCATION	TREE REMOVAL ACRE
STA. 15+28 30' RT. TO STA. 16+30 41.56' RT. (PROP. ROW)	0.06
STA. 15+22 (21' TO 37' LT.) TO STA. 19+00 85' LT.	0.20
STA. 4+85 46' RT. (N. DEPOT RD.) TO STA. 20+18 48' RT. (ESMT. AND ROW.)	0.23
TOTAL	0.49

USE 0.5 ACRE

20200500 EARTH EXCAVATION (WIDENING)	
LOCATION	EARTH EXCAVATION (WIDENING) CU. YD.
STA. 4+20 (N. DEPOT RD. E.) TO STA. 20+70 (IL 167)	54
TOTAL	54

21101615 TOPSOIL FURNISH AND PLACE, 4" & 25100635 HEAVY DUTY EROSION CONTROL BLANKET		
LOCATION	TOPSOIL FURNISH AND PLACE, 4"	HEAVY DUTY EROSION CONTROL BLANKET
	SO. YD.	SO. YD.
STA. 14+82 TO STA. 22+00 LT.	2203	2203
STA. 14+82 TO STA. 22+00 RT.	799	799
TOTAL	3002	3002

STONE RIPRAP AND FILTER FABRIC			
LOCATION	28100207 STONE RIPRAP CLASS A4	28100227 STONE RIPRAP CLASS B4	28200200 FILTER FABRIC
	TON	TON	SO YD
STA. 50+12.3 TO STA. 50+39.3 (ALONG CHANNEL)	88		176
STA. 51+36.8 TO STA. 52+45.2 (ALONG CHANNEL)	296		593
STA. 53+44.8 TO STA. 53+73 (ALONG CHANNEL)	59		119
STA. 15+25 TO STA. 16+25 RT.		106	141
STA. 18+50 TO STA. 18+66 RT.		20	40
STA. 18+87 TO STA. 20+50 LT.		109	215
STA. 4+75 TO STA. 5+50 RT. (N. DEPOT RD. E.)		33	66
STA. 11+75 TO STA. 12+25 LT. (N. DEPOT RD. W.)		21	43
SN 048-2503 ON TOP OF CULVERT E. SIDE	17		
SN 048-2504 ON TOP OF CULVERT W. SIDE	10		
SN 048-2504 ON TOP OF CULVERT E. SIDE	10		
TOTAL	480	289	1393

28000305 TEMPORARY DITCH CHECKS	
LOCATION	TEMPORARY DITCH CHECKS FOOT
STA. 15+25 23' RT.	7
STA. 15+88 43' RT.	7
STA. 5+50 (N. DEPOT RD. E.) 41' RT.	8
STA. 19+00 69' LT.	8
STA. 20+00 44' LT.	8
TOTAL	38

54200220 PIPE CULVERTS, CLASS D, TYPE 1, 15"	
LOCATION	PIPE CULVERTS CLASS D, TYPE 1 15" FOOT
STA. 21+27 TO STA. 21+63	36
STA. 21+56 TO STA. 21+84	28
TOTAL	64

48101200 AGGREGATE SHOULDERS, TYPE B	
LOCATION	AGGREGATE SHOULDERS, TYPE B TON
STA. 11+76 (N. DEPOT ROAD W.) RT. TO STA. 5+10.7 (N. DEPOT ROAD E.) LT.	22
STA. 20+00 TO STA. 22+00 RT.	31
STA. 21+03 TO STA. 22+00 LT.	5
F.E. STA. 21++46.5 LT.	23
P.E. STA. 21+62 RT.	15
TOTAL	96

54213445 END SECTIONS 15"	
LOCATION	END SECTIONS 15" EACH
STA. 21+27 28.5' LT.	1
STA. 21+56 29' RT.	1
STA. 21+63 25' LT.	1
STA. 21+84 23.5' RT.	1
TOTAL	4



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C65	

PERMANENT SEEDING						
	25000210 SEEDING, CLASS 2A	25000400 NITROGEN FERT. NUTRIENT	25000500 PHOSPHORUS FERT. NUTRIENT	25000600 POTASSIUM FERT. NUTRIENT	25100115 MULCH, METHOD 2	28000250 TEMPORARY EROSION CONTROL SEEDING
	ACRE	POUND	POUND	POUND	ACRE	POUND
STA. 14+69.34 TO STA. 22+00 LT. TO R.O.W.	0.49	44	44	44	0.49	49
STA. 14+82 TO STA. 11+54.5 (N. DEPOT ROAD W.) RT. TO R.O.W.	0.07	6	6	6	0.07	7
STA. 11+54.5 (N. DEPOT ROAD W.) RT. TO STA. 4+55 (N. DEPOT ROAD E.) LT.	0.04	4	4	4	0.04	4
STA. 4+55 (N. DEPOT ROAD E.) TO STA. 22+00 RT. TO R.O.W.	0.33	30	30	30	0.33	33
TOTAL	0.93	84	84	84	0.93	93

USE 1.0 ACRE USE 90 LB. USE 90 LB. USE 90 LB. USE 1.0 ACRE USE 100 POUNDS

28000400 PERIMETER EROSION BARRIER	
LOCATION	PERIMETER EROSION BARRIER FOOT
STA. 15+00 29' RT. TO STA. 15+40 40' RT.	40
STA. 15+55 55' RT. TO STA. 16+30 40' RT.	90
STA. 15+00 49' LT. TO STA. 21+40 49' LT.	426
STA. 4+50 (N. DEPOT RD. E.) 29' RT. TO STA. 6+20 74' RT.	180
STA. 19+15 74' RT. TO STA. 21+50 39' RT.	241
TOTAL	977

TABULATION OF RESURFACING QUANTITIES					
LOCATION	40600982 HMA SURFACE REMOVAL-BUTT JOINT SQ YD	40600295 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) POUND	40600827 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50 TON	40602978 HOT MIX ASPHALT BINDER COURSE, IL-9.5, N50 TON	40603310 HMA SURFACE COURSE, MIX "C", N50 TON
STA. 14+82 TO STA. 15+27	115				
STA. 21+55 TO STA. 22+00	115				
STA. 4+55 TO STA. 5+10 (N. DEPOT RD. E.)	174	97			
STA. 11+54.50 TO STA. 12+22 (N. DEPOT RD. W.)	120	91			
STA. 14+82 TO STA. 22+00		900	100	144	168
STA. 5+10 TO STA. 5+50 (N. DEPOT RD. E.)			6	4	19
STA. 11+85 TO STA. 12+15 (N. DEPOT RD. W.)			2	1	17
TOTAL	524	1088	108	149	204

28000500 INLET AND PIPE PROTECTION	
LOCATION	INLET AND PIPE PROTECTION EACH
STA. 21+63 27' LT.	1
TOTAL	1

HOT-MIX ASPHALT SHOULDERS		
LOCATION	48203029 HOT-MIX ASPHALT SHOULDERS 8" SQ YD	48203100 HOT-MIX ASPHALT SHOULDERS TON
STA. 14+82 TO STA. 11+54.50 (N. DEPOT ROAD W.)	102	
STA. 14+82 TO STA. 18+50	146	
STA. 3+83 (N. DEPOT ROAD E.) TO STA. 22+00 LT.	419	
STA. 4+55 (N. DEPOT ROAD E.) TO STA. 20+70 RT.	247	
STA. 20+70 TO STAGE 22+00 STAGE I	45	
STA. 18+50 TO STA. 21+75 RT.		43
TOTAL	959	43

35501316 HOT-MIX ASPHALT BASE COURSE, 8" & 44000100 PAVEMENT REMOVAL		
LOCATION	HOT-MIX ASPHALT BASE COURSE 8" SQ YD	PAVEMENT REMOVAL SQ YD
STA. 15+55 TO STA. 16+22	179	179
STA. 18+47 TO STA. 19+07	160	160
TOTAL	339	339

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"	
LOCATION	AGGREGATE SUBGRADE IMPROVEMENT 12" SQ YD
STA. 14+82 TO STA. 15+55 LT.	25
STA. 15+55 TO STA. 16+22	253
STA. 18+47 TO STA. 19+07	227
TOTAL	505

35600708 HOT-MIX ASPHALT BASE COURSE WIDENING 8"	
LOCATION	HOT-MIX ASPHALT BASE COURSE WIDENING 8" SQ YD
STA. 14+82 TO STA. 15+55	16
STA. 4+20 (N. DEPOT RD. E.) TO STA. 20+70	239
TOTAL	255

44000400 GUTTER REMOVAL	
LOCATION	GUTTER REMOVAL FOOT
STA. 14+83 TO STA. 19+90 LT.	483
TOTAL	483



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	11
CONTRACT NO. 68C65			ILLINOIS FED. AID PROJECT	

GUARDRAIL SCHEDULE					
LOCATION	63000001	63100101	63100167	72501000	63200310
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 10	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REMOVAL
	FOOT	EACH	EACH	EACH	FOOT
STA. 14+46.9 TO STA. 14+50 LT.		1			
STA. 14+ 50 TO STA. 19+84.9 LT.	500				
STA. 19+84.9 TO STA. 20+34.9 LT.			1		
STA. 20+34.9 LT.				1	
STA. 14+93.8 TO STA. 14+96.9 RT.		1			
STA. 14+96.9 LT. TO STA. 12+30.9 (N. DEPOT RD. W.) LT.	137.5				
STA. 11+79.5 TO STA. 12+30.9 (N. DEPOT RD. W) LT.			1		
STA. 11+79.5 (N. DEPOT RD. W) LT.				1	
STA. 4+57.9 (N. DEPOT RD. E.) RT.				1	
STA. 4+57.9 TO STA. 5+07.9 (N. DEPOT RD. E.) RT.			1		
STA. 5+07.9 (N. DEPOT RD. E.) TO STA. 19+30.5 RT.	162.5				
STA. 19+30.5 TO STA. 19+80.5 RT.			1		
STA. 19+80.5 RT.				1	
STA. 14+42 TO STA. 17+07 LT.					252
STA. 4+67 (N. DEPOT RD. E.) TO STA. 19+84.5 RT.					255
TOTAL	800	2	4	4	507

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS
	EACH
STA. 14+69.34 27.78' LT.	1
STA. 15+00.00 50' LT.	1
STA. 15+26.79 30' RT.	1
STA. 15+75.00 78.47' RT.	1
STA. 16+00 70.89 LT.	1
STA. 16+25 95.14' LT.	1
STA. 16+30 41.56' LT.	1
STA. 19+00 85.00' LT.	1
STA. 20+00 50.36' LT.	1
STA. 4+50 30.00' RT. (N. DEPOT RD.)	1
STA. 6+00 75.00' RT. (N. DEPOT RD.)	1
STA. 19+15 75.00' RT.	1
STA. 19+50 55.00' RT.	1
STA. 21+00 40.00' RT.	1
TOTAL	14

TEMPORARY CONCRETE BARRIER				
LOCATION	70400100	70400200	70600260	70600332
	TEMPOORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY, FULLY REDIRECTIVE, NARROW) TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE, FULLY REDIRECTIVE, NARROW) TEST LEVEL 3
	FOOT	FOOT	EACH	EACH
STA. 4+18.4 (N. DEPOT RD. E.) TO STA. 20+77.5 - STAGE I	400			
STA. 3+78.0 (N. DEPOT RD. E.) TO STA. 21+12.0 - STAGE II	475			
STA. 4+27.5 (N. DEPOT RD. E.) TO STA. 20+62.4 - STAGE II		400		
STA. 3+93.4 TO STA. 4+18.4 (N. DEPOT RD. E.) - STAGE I			1	
STA. 20+77.5 TO STA. 21+02.5 - STAGE I			1	
STA. 4+02.5 TO STA. 4+27.5 (N. DEPOT RD. E.) - STAGE II			1	
STA. 20+62.4 TO STA. 20+87.4 - STAGE II			1	
STA. 3+53.0 TO STA. 3+78.0 (N. DEPOT RD. E.)				1
STA. 21+12.0 TO STA. 21+37.0 RT.				1
TOTAL	875	400	4	2

EXISTING SIGN LOCATIONS	
SIGN AND LOCATION	EXISTING SIGNS
	EACH
N. DEPOT ROAD E.	
STOP SIGN AHEAD SIGN - STA. 3+40 30' LT.	1
US 34/IL 167 INFORMATION SIGN - STA. 3+38 21' LT.	1
STOP SIGN FOR SOUTHBOUND TRAFFIC - STA. 3+36 13' LT.	1
50 MPH WITH ARROW ADVISORY SPEED SIGN - STA. 4+86 24' RT.	1
N. DEPOT ROAD W.	
13'-4" CLEARANCE SIGN - STA. 11+48 21' LT.	1
STOP SIGN FOR NORTHBOUND TRAFFIC - STA. 11+58 20' RT. (DUAL SIGN ON ONE POST)	
IL 167	
CHEVRON - STA. 14+51 13' LT.	1
CHEVRON - STA. 14+97 13' RT.	1
13 FT. 4 IN. WARNING SIGN - STA. 14+72 18' LT.	1
STOP SIGN AHEAD SIGN - STA. 15+93 17' LT.	1
WATAGA/VICTORIA WITH ARROW INFORMATION SIGN - STA. 16+18 29' RT.	1
IL 167 MILEAGE SIGN - STA. 17+05 28' RT.	1
IL 167 WITH ARROW LEFT INFORMATIONAL SIGN - STA. 17+01 33' RT.	1
JUNCTION US 34 INFORMATIONAL SIGN - STA. 16+77 20' LT.	1
13'-4" CLEARANCE SIGN - STA. 17+57 28' LT.	1
STOP SIGN FOR EASTBOUND TRAFFIC - STA. 17+73 22' RT.	1
IL 167 WITH ARROW RIGHT INFORMATIONAL SIGN - STA. 17+75 28' RT.	1
TOTAL	16

50105220 PIPE CULVERT REMOVAL	
LOCATION	PIPE CULVERT REMOVAL
	FOOT
STA. 21+36 TO STA. 21+56 30' LT.	20
STA. 21+56 TO STA. 21+76 24' RT.	20
TOTAL	40



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	12
			CONTRACT NO. 68C65	
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING

LOCATION	70300220 TEMPORARY PAVEMENT MARKING - LINE 4"		70300280 TEMPORARY PAVEMENT MARKING - LINE 24"	78009004 MODIFIED URETHANE PAVEMENT MARKING - LINE 4"		78009024 MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	70300904 PAVEMENT MARKING TAPE, TYPE IV 4"	X7030005 TEMPORARY PAVEMENT MARKING REMOVAL	X0327980 PAVEMENT MARKING REMOVAL WATER BLASTING
	SOLID WHITE EDGE LINE	SOLID DOUBLE YELLOW	SOLID WHITE	SOLID WHITE EDGE LINE	SOLID DOUBLE YELLOW	SOLID WHITE	SOLID WHITE		
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.	SQ. FT.
N. DEPOT RD. E.									
STA. 2+15 TO STA. 22+75	800 RT.	1600		800 RT.	1600				
STA. 4+55 TO STA. 5+36	81 LT.			81 LT.					
N. DEPOT RD. W.									
STA. 11+54.5 TO STA. 14+82	228 LT.			228 LT.					
STA. 11+54.5 TO STA. 12+03	49 RT.	98		49 RT.	98				
IL 167									
STA. 14+82 TO STA. 22+00	693 LT.			693 LT.					
STA. 14+82 TO STA. 18+00		636			636				
STA. 16+65 TO STA. 18+00	149 RT.			149 RT.					
STA. 11+57 (N. DEPOT RD. W.) RT.			12			12			
STA. 3+36 (N. DEPOT RD. E.) LT.			12			12			
STA. 17+74 RT.			12			12			
STA. 2+15 (N. DEPOT RD. E.) TO STA. 22+75 LT. - STAGE I							804	268	
STA. 3+00 (N. DEPOT RD. E.) TO STA. 22+75 RT. - STAGE I							715	239	
STA. 2+15 (N. DEPOT RD. E.) TO STA. 22+75 LT. - STAGE II							777	259	
STA. 2+15 (N. DEPOT RD. E.) TO STA. 22+75 RT. - STAGE II							802	267	
STA. 2+15 TO STA. 5+00 (N. DEPOT RD. E.) DOUBLE CENTERLINE									190
STA. 20+00 TO STA. 22+75 DOUBLE CENTERLINE									184
SUB-TOTAL	2000	2334		2000	2334				
TOTAL		4334	36		4334	36	3098	1033	374

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS	
LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS
	EACH
STA. 2+61 16' RT.	0.25
STA. 2+86 16' LT.	0.25
STA. 22+00 16' RT.	0.25
STA. 22+26.2 16' LT.	0.25
TOTAL	1

X4401198 HOT-MIX ASPHALT REMOVAL, VARIABLE DEPTH	
LOCATION	HMA SURFACE REMOVAL, VARIABLE DEPTH
	SQ. YD.
STA. 15+27 TO STA. 21+55	1771
STA. 5+10 TO STA. 5+36 (N. DEPOT RD. E.)	96
STA. 12+22 TO STA. 12+30 (N. DEPOT RD. W.)	29
TOTAL	1896

Z0001002 GUARDRAIL AGGREGATE EROSION CONTROL	
LOCATION	GUARDRAIL AGGREGATE EROSION CONTROL
	TON
STA. 14+82 TO STA. 11+54.50 N. DEPOT RD. W.	34
STA. 14+82 TO STA. 18+50 LT.	49
STA. 4+55 N. DEPOT RD. E. TO STA. 20+00 RT.	31
TOTAL	114

70106700 TEMPORARY RUMBLE STRIPS	
LOCATION	TEMPORARY RUMBLE STRIPS
	EACH
STA. 27+76 (SW BOUND)	5
STA. 31+76 (SW BOUND)	5
STA. 33+76 (SW BOUND)	5
TOTAL	15

X7040125 PINNING TEMPORARY CONCRETE BARRIER	
LOCATION	PINNING TEMPORARY CONCRETE BARRIER
	EACH
STA. 18+23.0 TO STA. 20+50.0 LT. (STAGE II)	54
TOTAL	54

Z0022800 FENCE REMOVAL	
LOCATION	FENCE REMOVAL
	FOOT
STA. 18+76 33' LT. TO STA. 21+10 50' LT.	247
STA. 19+25 68' RT. TO STA. 21+60 40' RT.	310
TOTAL	557

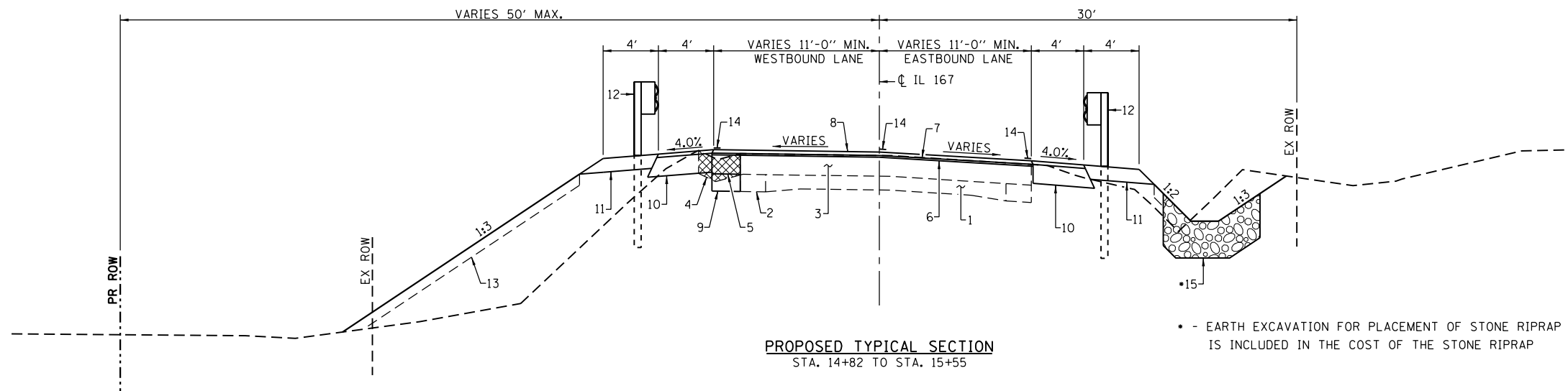


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DEPARTMENT OF TRANSPORTATION**

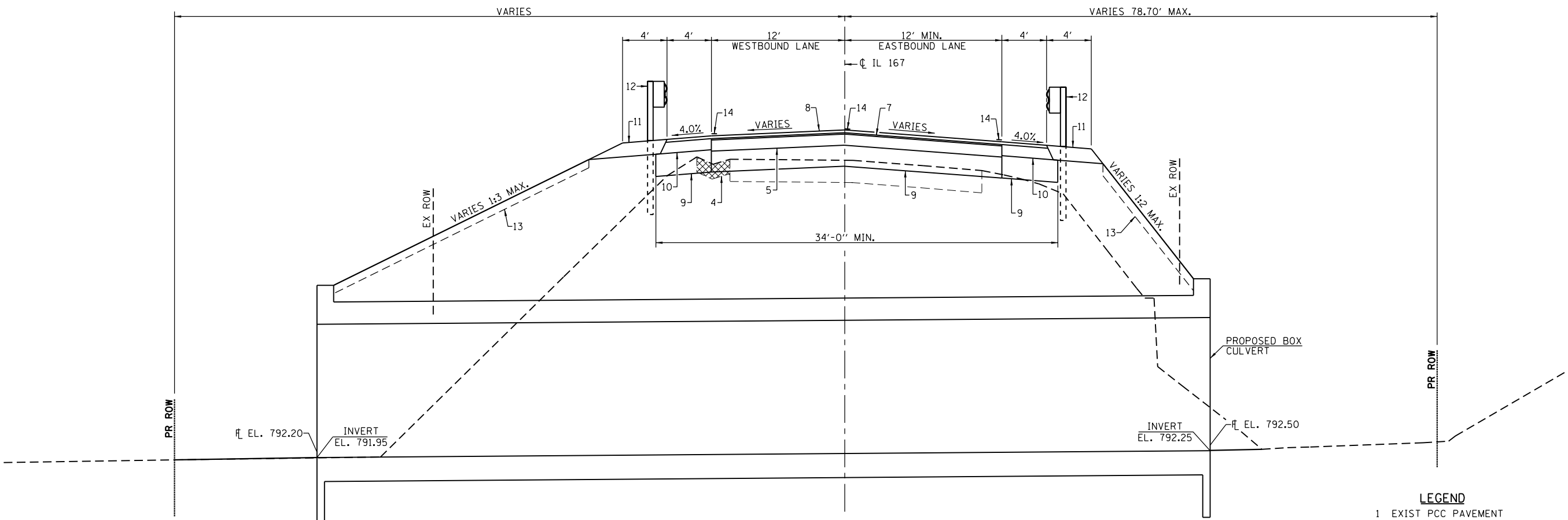
QUANTITY SCHEDULES		
SCALE:	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	13
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



• - EARTH EXCAVATION FOR PLACEMENT OF STONE RIPRAP IS INCLUDED IN THE COST OF THE STONE RIPRAP

PROPOSED TYPICAL SECTION
STA. 14+82 TO STA. 15+55



PROPOSED TYPICAL SECTION
STA. 15+55 TO STA. 16+22

LEGEND

- 1 EXIST PCC PAVEMENT
- 2 EXIST HMA WIDENING
- 3 EXIST HMA OVERLAYS
- 4 EXIST CONCRETE GUTTER
- 5 PROP HMA BASE COURSE 8"
- 6 PROP HMA SURFACE REMOVAL (1" MIN. AT CENTERLINE)
- 7 PROP POLYMERIZED LEVELING BINDER (MACHINE METHOD) 1"
- 8 PROP HMA SURFACE COURSE, MIX C 1 1/2"
- 9 PROP AGGREGATE SUBGRADE IMPROVEMENT 12"
- 10 PROP HMA SHLD 8"
- 11 PROP AGGREGATE EROSION CONTROL SHLD 8"
- 12 PROP GUARDRAIL
- 13 PROP TOPSOIL 4" AND EROSION CONTROL BLANKET
- 14 PROP MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- 15 PROP STONE RIPRAP CLASS B4
- 16 PROP HMA BINDER COURSE IL-9.5 N50
- 17 PROP HMA BASE COURSE WIDENING 8"
- 18 PROP HMA SHOULDER (VAR. DEPTH)
- 19 PROP AGGREGATE SHOULDERS, TYPE B



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

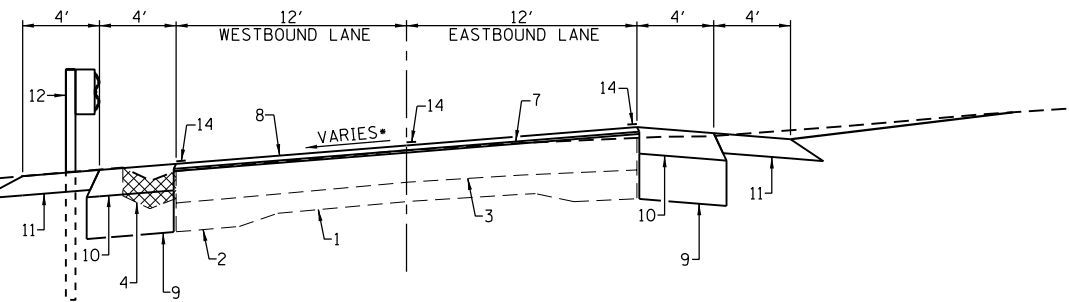
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

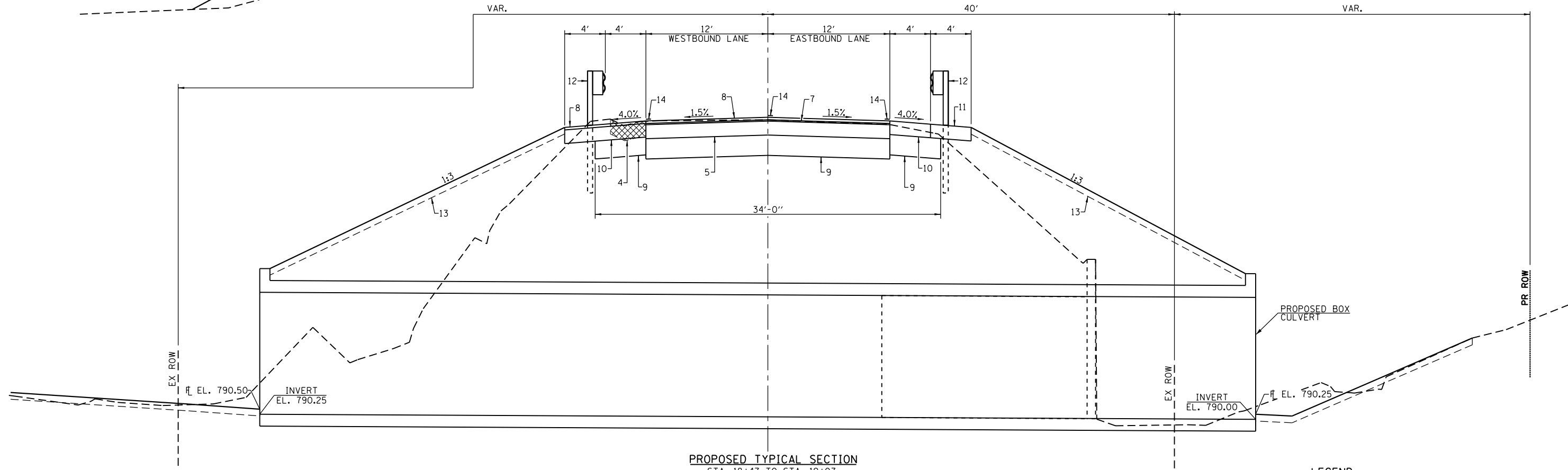
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	14
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

• FULL SUPERELEVATION (4%)
FROM STA. 16+65 TO STA. 17+99



PROPOSED TYPICAL SECTION
STA. 16+22 TO STA. 18+47



PROPOSED TYPICAL SECTION
STA. 18+47 TO STA. 19+07

LEGEND

- 1 EXIST PCC PAVEMENT
- 2 EXIST HMA WIDENING
- 3 EXIST HMA OVERLAYS
- 4 EXIST CONCRETE GUTTER
- 5 PROP HMA BASE COURSE 8"
- 6 PROP HMA SURFACE REMOVAL (1" MIN. AT CENTERLINE)
- 7 PROP POLYMERIZED LEVELING BINDER (MACHINE METHOD) 1"
- 8 PROP HMA SURFACE COURSE, MIX C 1 1/2"
- 9 PROP AGGREGATE SUBGRADE IMPROVEMENT 12"
- 10 PROP HMA SHLD 8"
- 11 PROP AGGREGATE EROSION CONTROL SHLD 8"
- 12 PROP GUARDRAIL
- 13 PROP TOPSOIL 4" AND EROSION CONTROL BLANKET
- 14 PROP MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- 15 PROP STONE RIPRAP CLASS B4
- 16 PROP HMA BINDER COURSE IL-9.5 N50
- 17 PROP HMA BASE COURSE WIDENING 8"
- 18 PROP HMA SHOULDER (VAR. DEPTH)
- 19 PROP AGGREGATE SHOULDERS, TYPE B



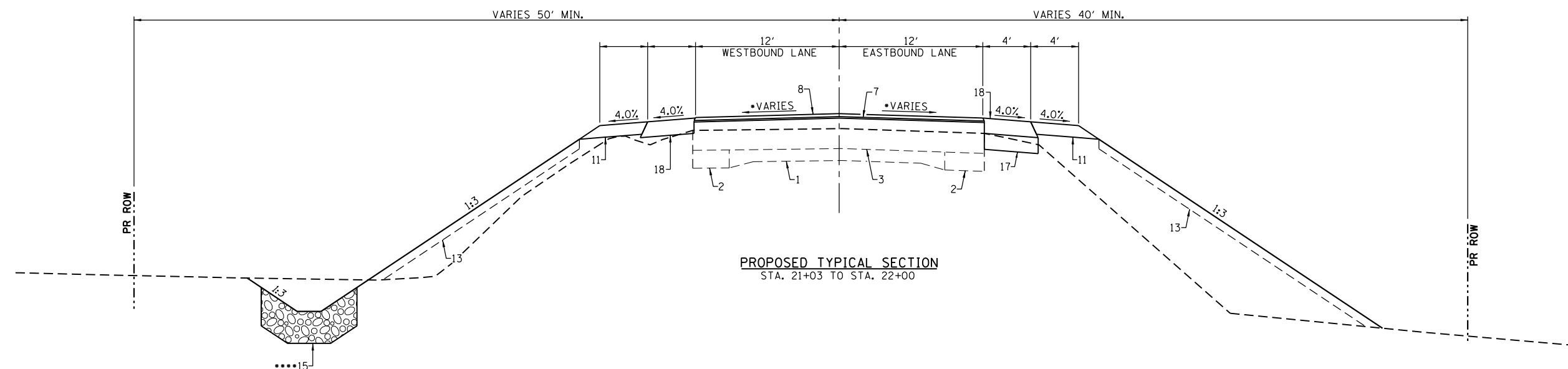
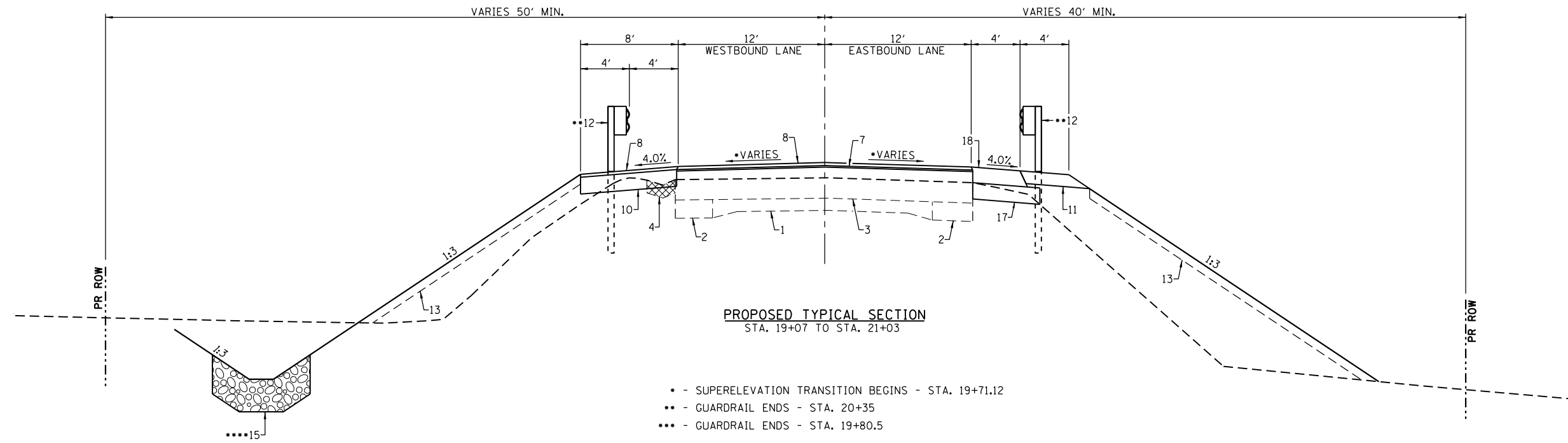
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

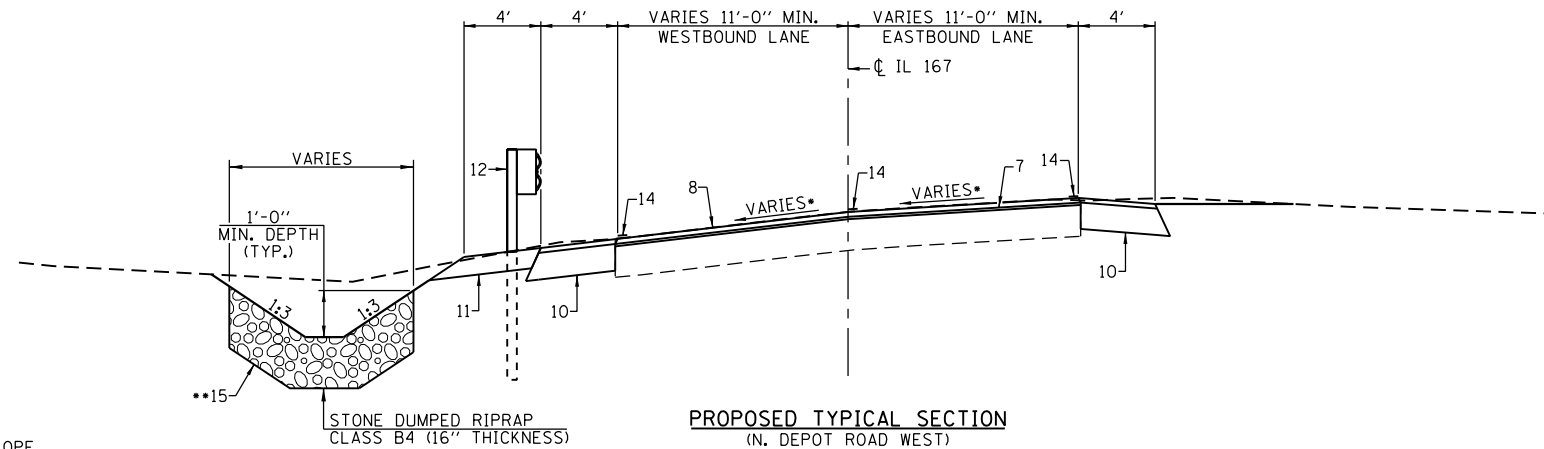
PROPOSED TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	15
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

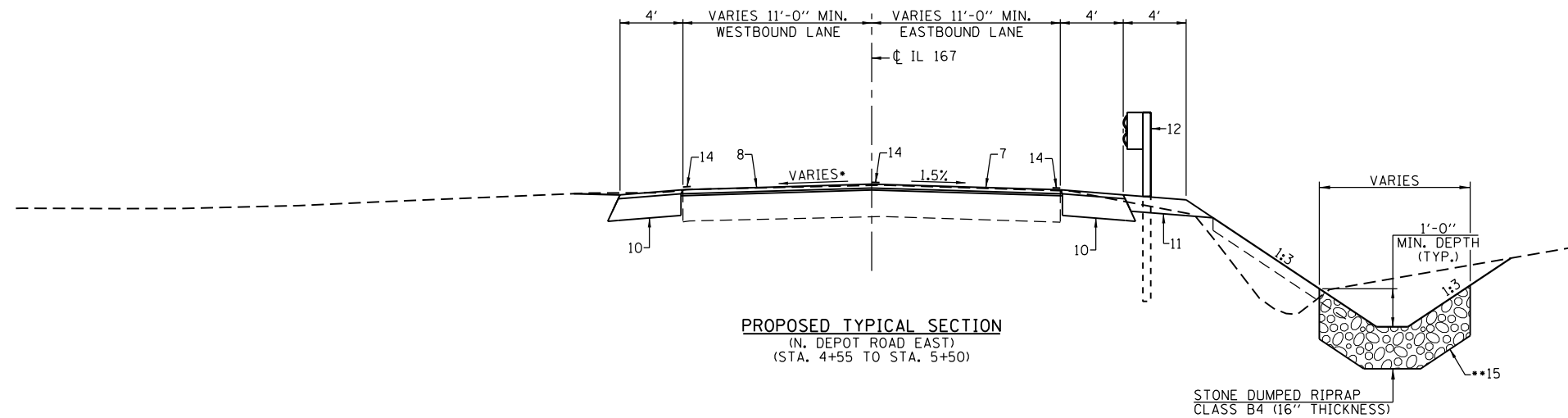


- LEGEND**
- 1 EXIST PCC PAVEMENT
 - 2 EXIST HMA WIDENING
 - 3 EXIST HMA OVERLAYS
 - 4 EXIST CONCRETE GUTTER
 - 5 PROP HMA BASE COURSE 8"
 - 6 PROP HMA SURFACE REMOVAL (1" MIN. AT CENTERLINE)
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 - 15 PROP STONE RIPRAP CLASS B4
 - 16 PROP HMA BINDER COURSE IL-9.5 N50
 - 17 PROP HMA BASE COURSE WIDENING 8"
 - 18 PROP HMA SHOULDER (VAR. DEPTH)
 - 19 PROP AGGREGATE SHOULDERS, TYPE B



PROPOSED TYPICAL SECTION
(N. DEPOT ROAD WEST)
(STA. 11+54.50 TO STA. 12+25)

- - SEE ROADWAY CROSS SLOPE PLAN AND CROSS SECTIONS
- ** - EARTH EXCAVATION FOR PLACEMENT OF STONE RIPRAP IS INCLUDED IN THE COST OF THE STONE RIPRAP



PROPOSED TYPICAL SECTION
(N. DEPOT ROAD EAST)
(STA. 4+55 TO STA. 5+50)

STONE DUMPED RIPRAP
CLASS B4 (16" THICKNESS)

LEGEND

- 1 EXIST PCC PAVEMENT
- 2 EXIST HMA WIDENING
- 3 EXIST HMA OVERLAYS
- 4 EXIST CONCRETE GUTTER
- 5 PROP HMA BASE COURSE 8"
- 6 PROP HMA SURFACE REMOVAL (1" MIN. AT CENTERLINE)
- 7 PROP POLYMERIZED LEVELING BINDER (MACHINE METHOD) 1"
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- 19 PROP AGGREGATE SHOULDERS, TYPE B



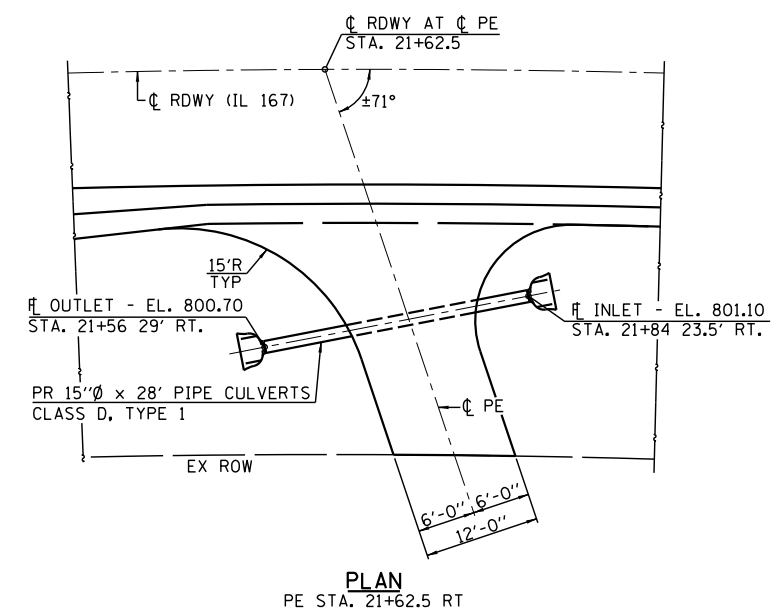
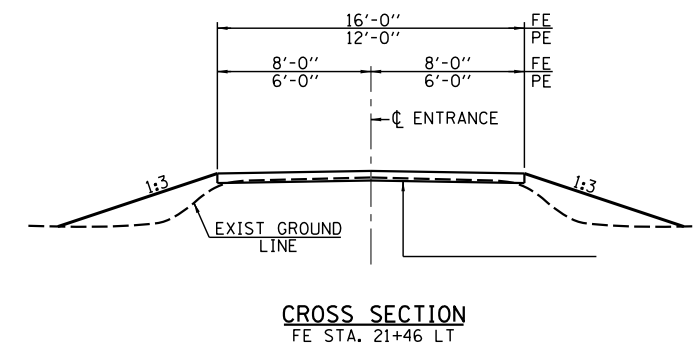
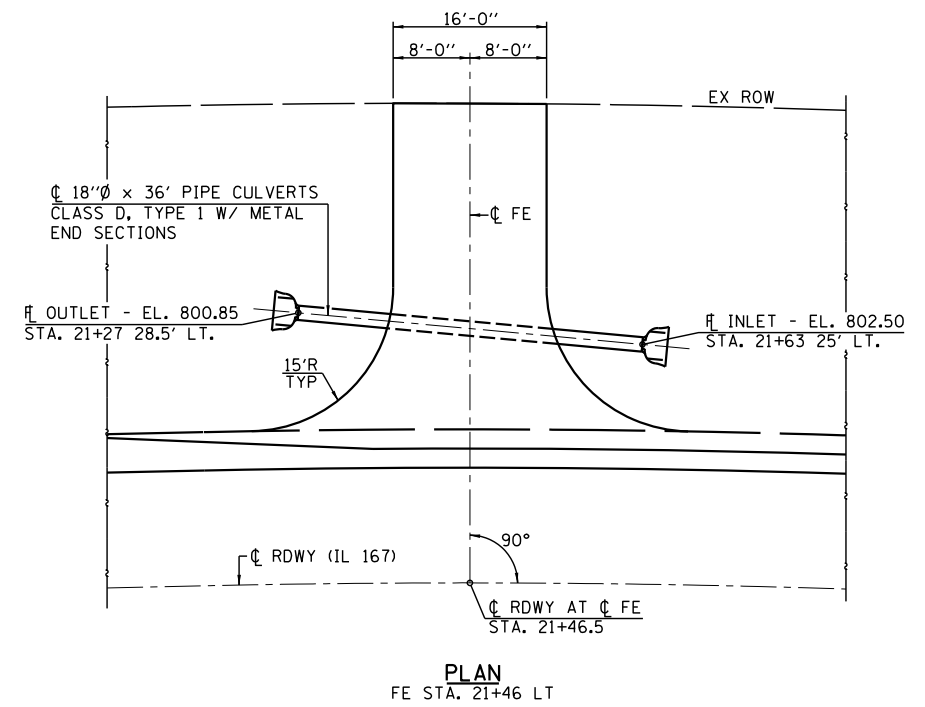
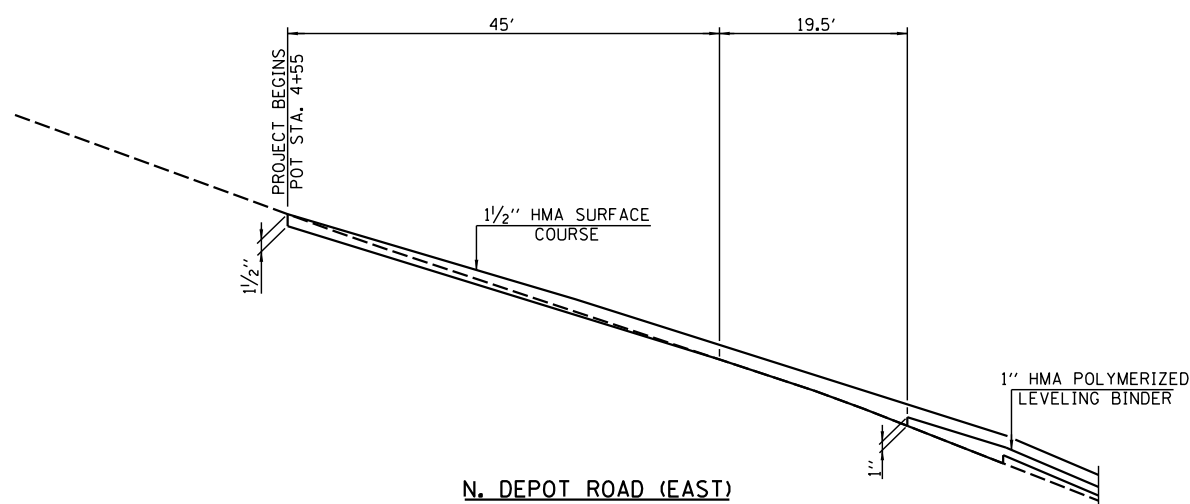
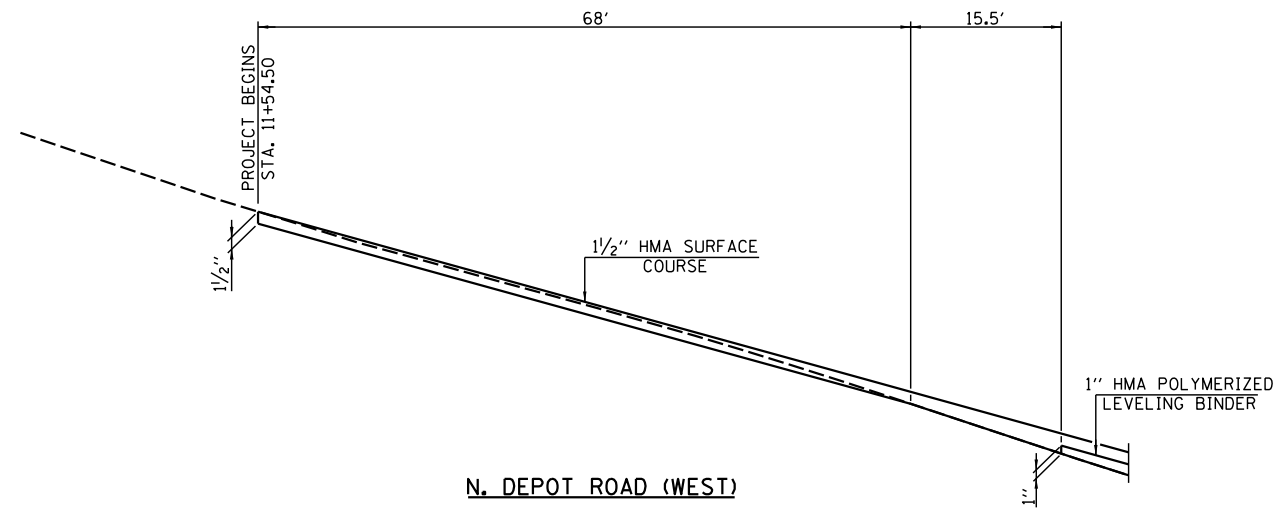
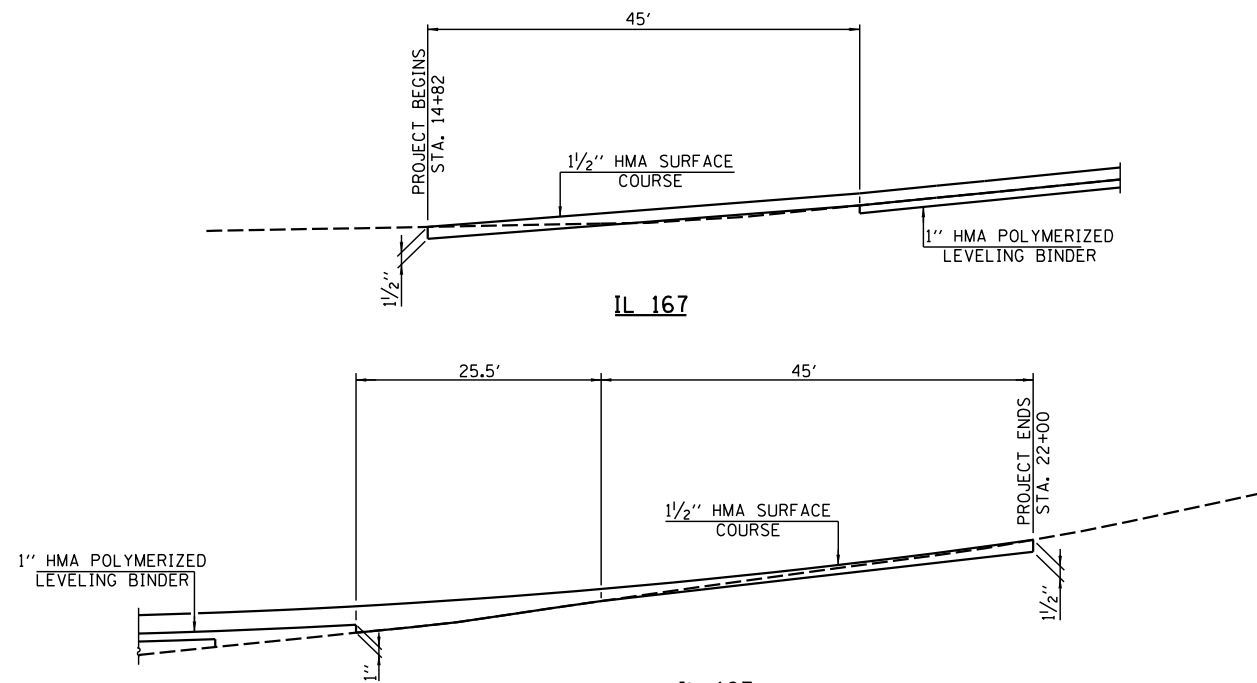
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	17
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



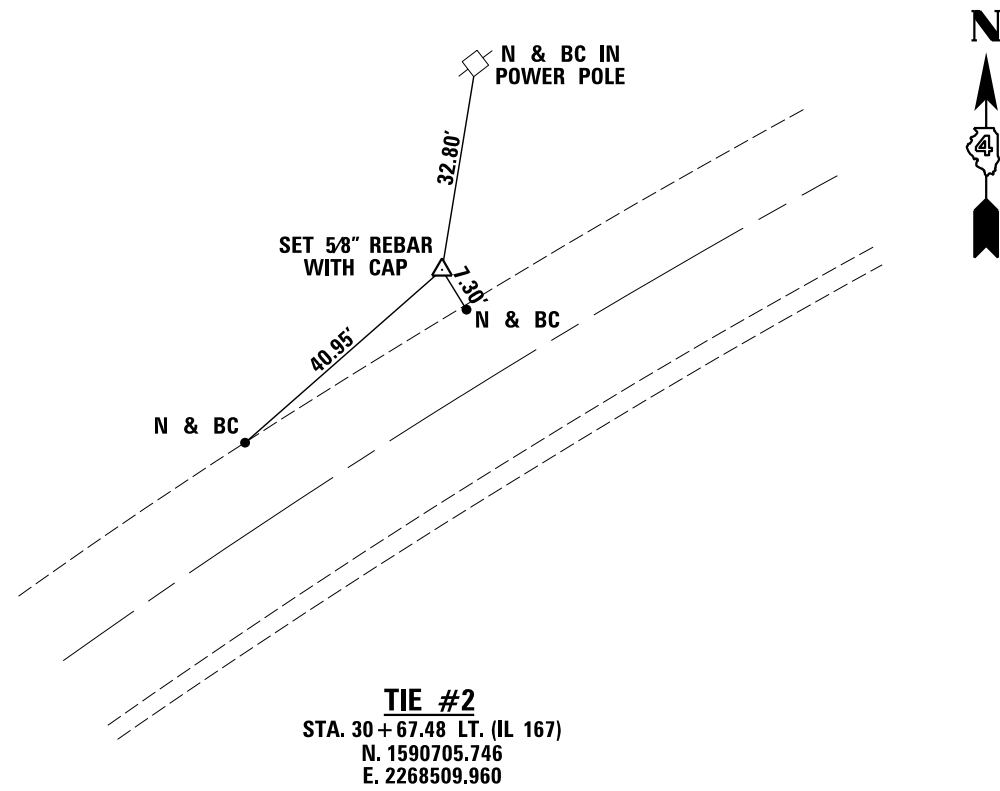
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

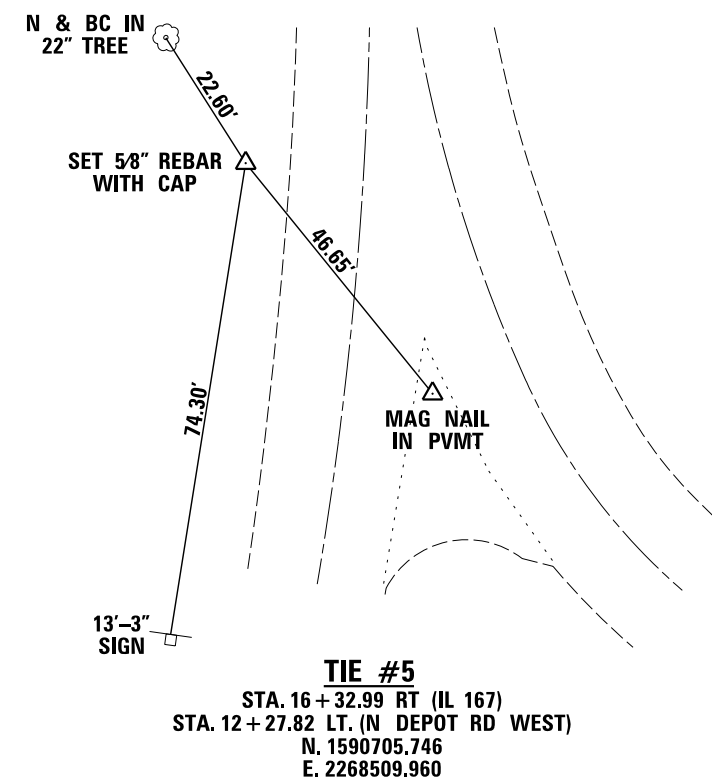
HMA BUTT JOINT DETAILS

SCALE: VARIES SHEET NO. 1 OF 1 SHEETS STA. 14+10 TO STA. 21+00

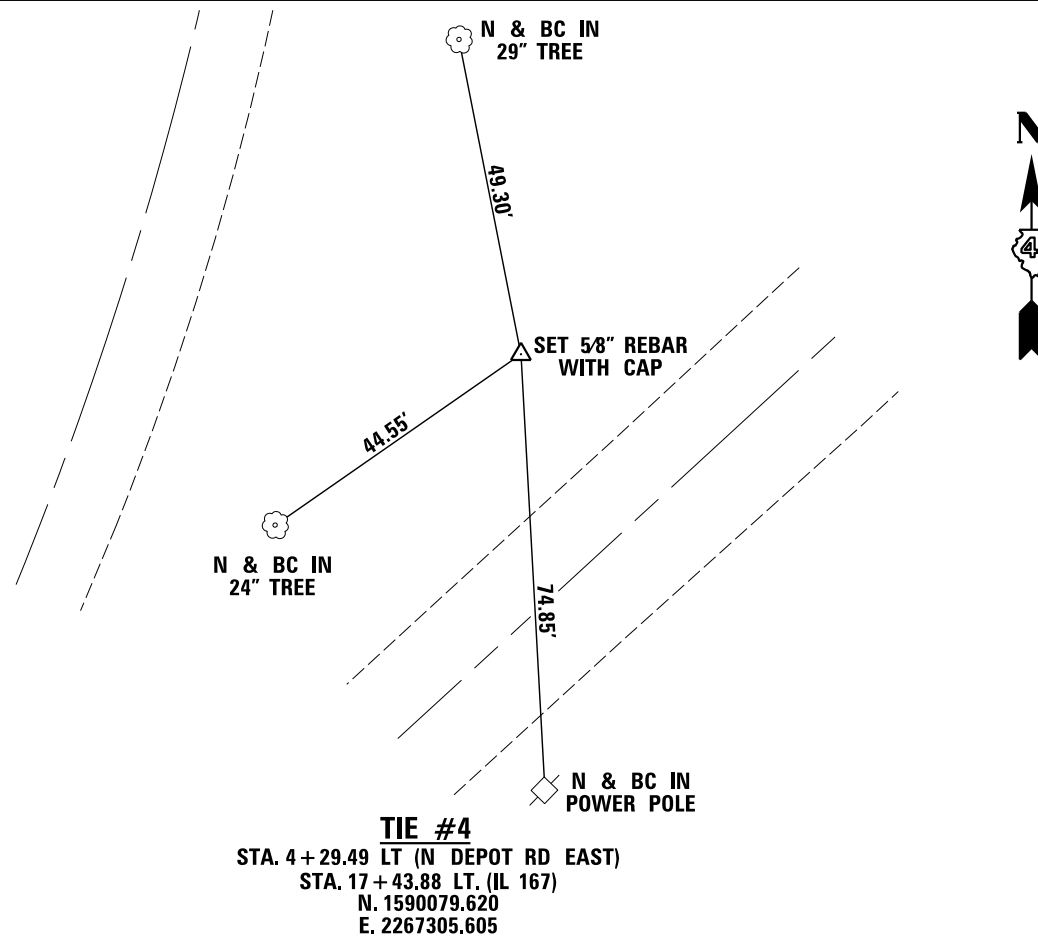
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	18
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



TIE #2
 STA. 30 + 67.48 LT. (IL 167)
 N. 1590705.746
 E. 2268509.960



TIE #5
 STA. 16 + 32.99 RT (IL 167)
 STA. 12 + 27.82 LT. (N DEPOT RD WEST)
 N. 1590705.746
 E. 2268509.960



TIE #4
 STA. 4 + 29.49 LT (N DEPOT RD EAST)
 STA. 17 + 43.88 LT. (IL 167)
 N. 1590079.620
 E. 2267305.605



BENCHMARKS: BM#4 - RAILROAD SPIKE IN POWER POLE
 25.5' RT. STA. 3 + 81.6 EL. 814.19
BM#5 - CUT SQUARE IN THE N.E. CORNER OF
CONCRETE PEDESTAL OF A FLASHING
RAILROAD SIGN
 18.5' RT. STA. 1 + 82.3 EL. 822.00



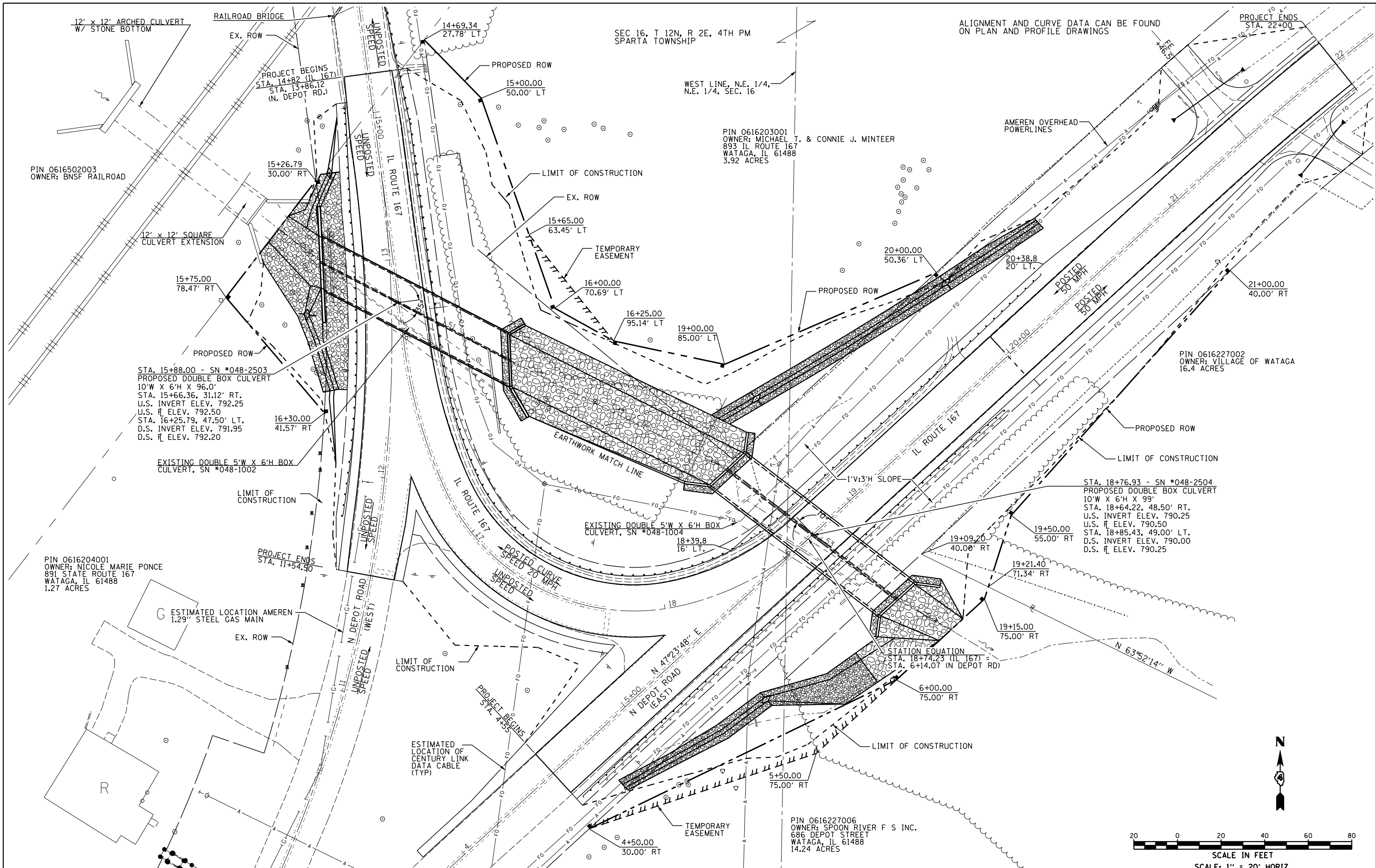
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES AND BENCHMARKS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	19
CONTRACT NO. 68C65				
<small>ILLINOIS FED. AID PROJECT</small>				



ALIGNMENT AND CURVE DATA CAN BE FOUND ON PLAN AND PROFILE DRAWINGS

SEC 16, T 12N, R 2E, 4TH PM SPARTA TOWNSHIP

WEST LINE, N.E. 1/4, N.E. 1/4, SEC. 16

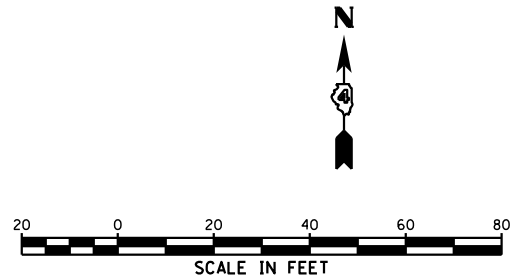
PIN 0616203001
OWNER: MICHAEL T. & CONNIE J. MINTEER
893 IL ROUTE 167
WATAGA, IL 61488
3.92 ACRES

PIN 0616227002
OWNER: VILLAGE OF WATAGA
16.4 ACRES

PIN 0616227006
OWNER: SPOON RIVER F S INC.
686 DEPOT STREET
WATAGA, IL 61488
14.24 ACRES

PIN 0616502003
OWNER: BNSF RAILROAD

PIN 0616204001
OWNER: NICOLE MARIE PONCE
891 STATE ROUTE 167
WATAGA, IL 61488
1.27 ACRES



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

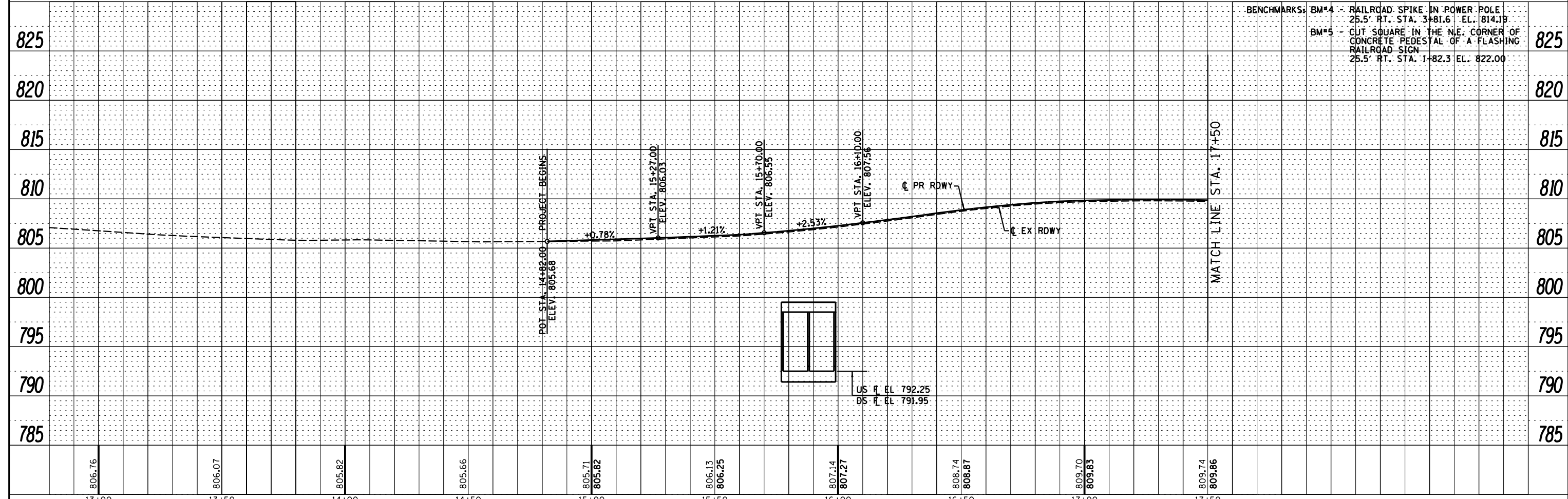
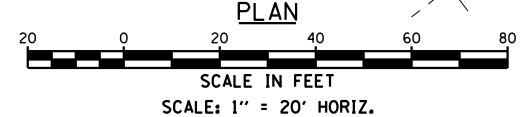
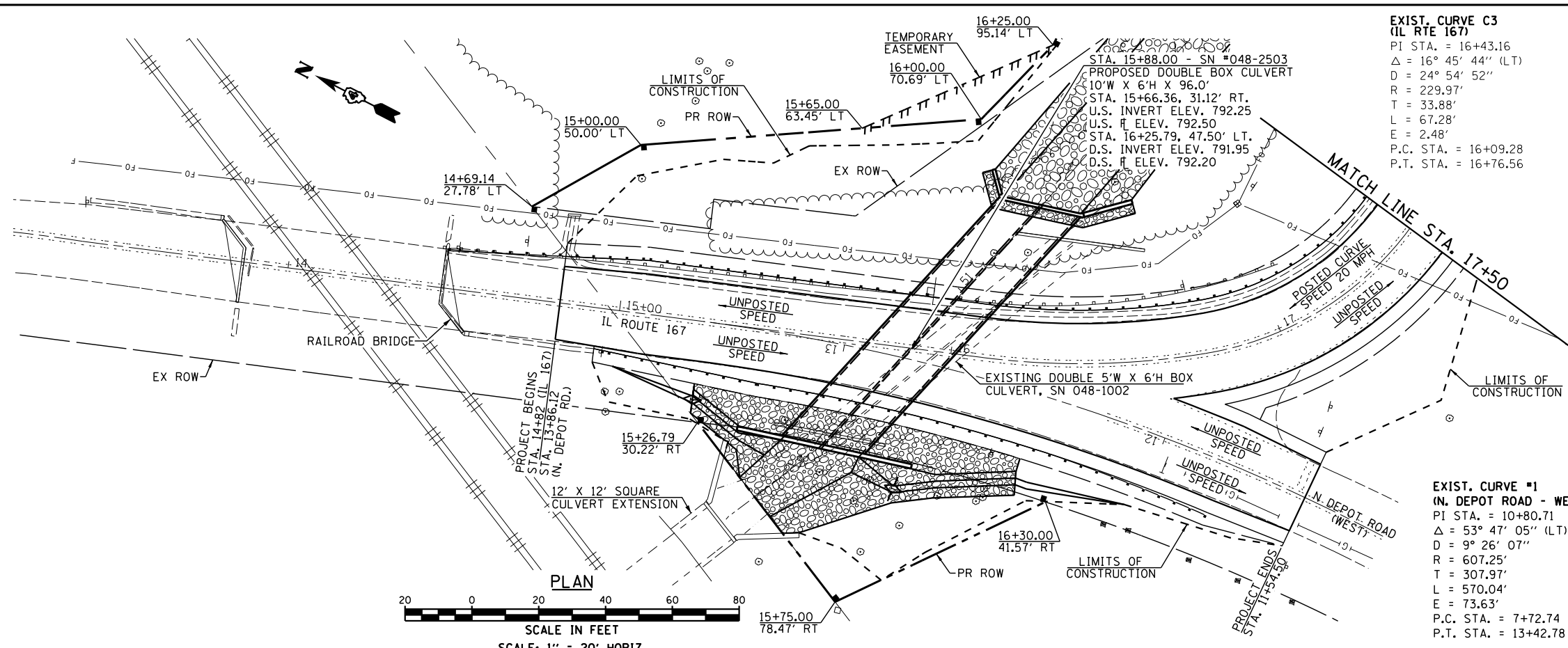
ROADWAY PLAN

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 14+10 TO STA. 21+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	20
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
NOTE BOOK NO.	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
NOTE BOOK NO.		



806.76	806.07	805.82	805.66	805.71	805.82	806.13	806.25	807.14	807.27	808.74	808.87	809.70	809.83	809.74	809.86
13+00	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50						

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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE - IL 167
 SCALE: 20' H, 5' V SHEET 1 OF 2 SHEETS STA. 13+00.00 TO STA. 17+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	21
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

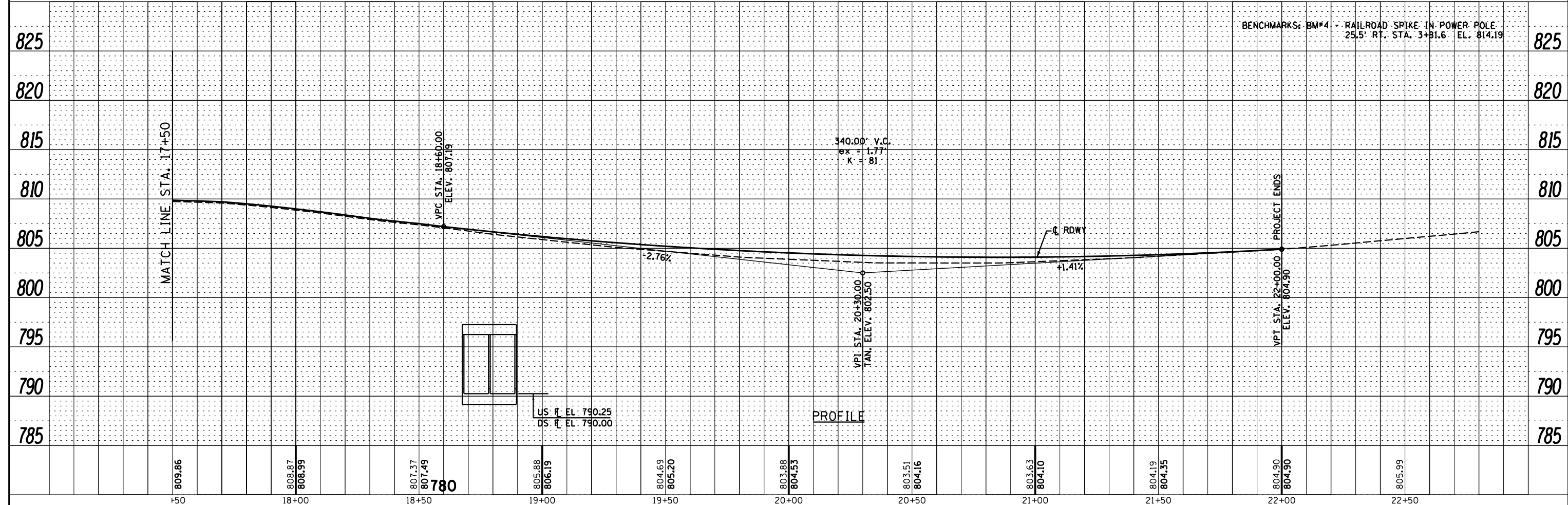
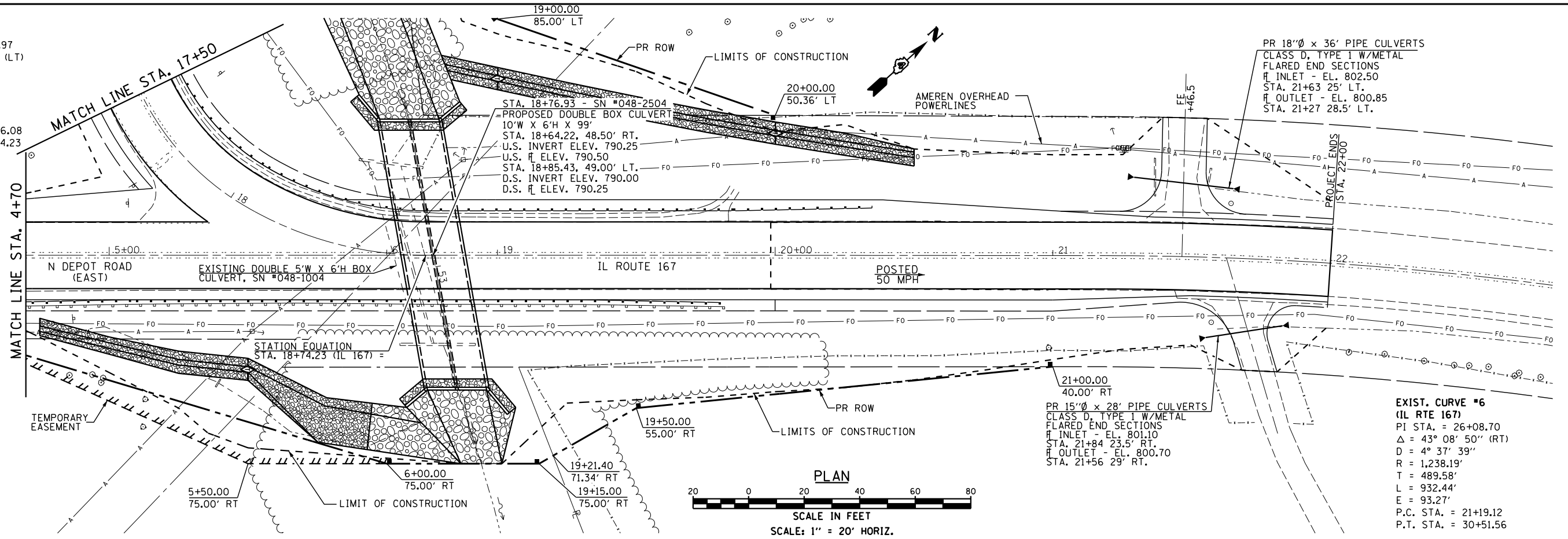
EXIST. CURVE #5
(IL RTE 167)
PI STA. = 18+40.97
 $\Delta = 30^\circ 20' 20''$ (LT)
D = 44° 31' 7.3"
R = 128.71'
T = 34.90'
L = 68.15'
E = 4.65'
P.C. STA. = 18+06.08
P.T. STA. = 18+74.23

PR 18"Ø x 36' PIPE CULVERTS
CLASS D, TYPE 1 W/METAL
FLARED END SECTIONS
H INLET - EL. 802.50
STA. 21+63 25' LT.
H OUTLET - EL. 800.85
STA. 21+27 28.5' LT.

EXIST. CURVE #6
(IL RTE 167)
PI STA. = 26+08.70
 $\Delta = 43^\circ 08' 50''$ (RT)
D = 4° 37' 39"
R = 1,238.19'
T = 489.58'
L = 932.44'
E = 93.27'
P.C. STA. = 21+19.12
P.T. STA. = 30+51.56

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



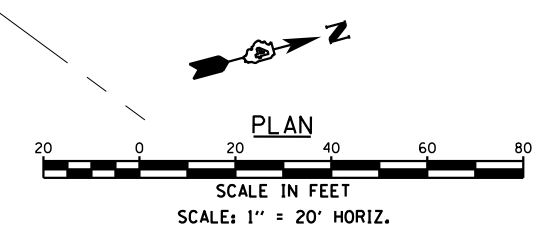
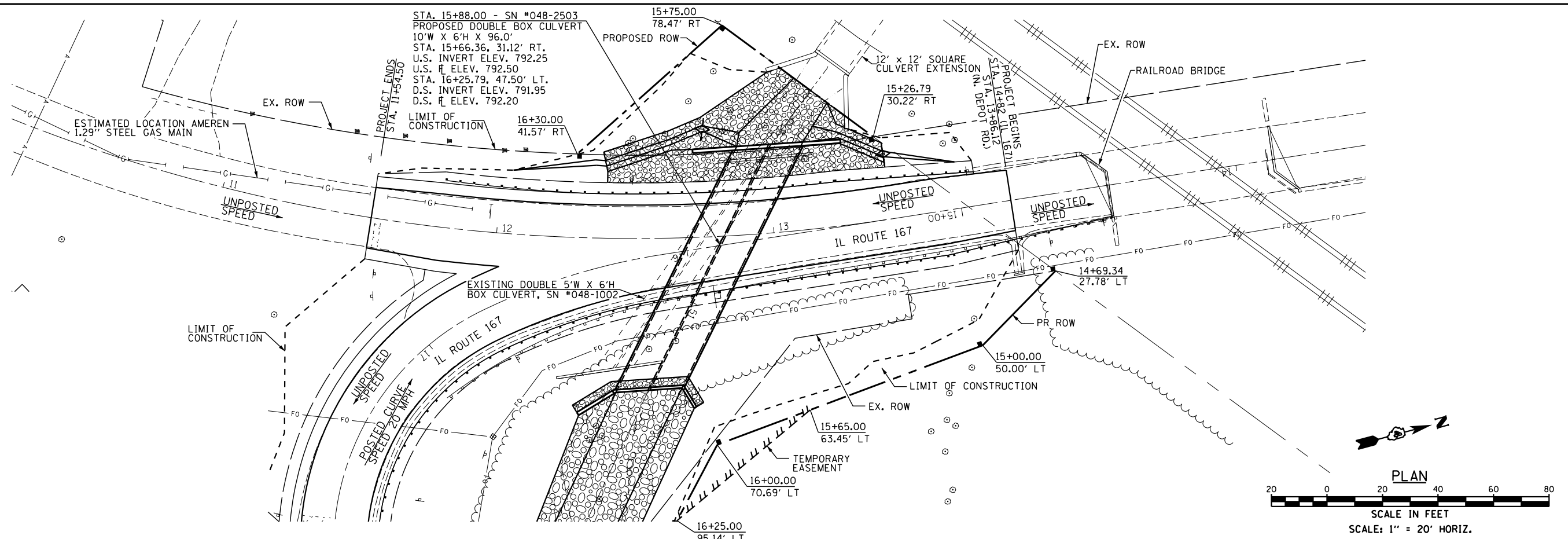
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

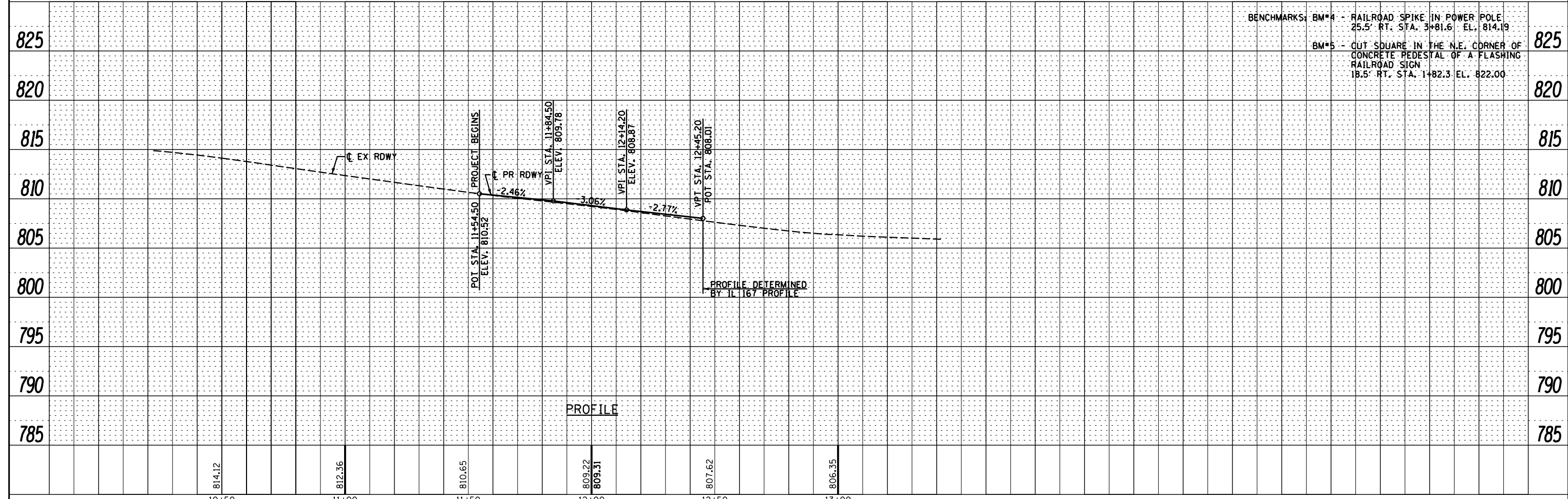
PLAN AND PROFILE - IL 167
SCALE: 20'H : 5'V SHEET 2 OF 2 SHEETS STA. 13+00 TO STA. 17+50

F.A.S. RTE. 379	SECTION (6.10) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 22
CONTRACT NO. 68C65				ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
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NOTE BOOK NO.	CADD FILE NAME	



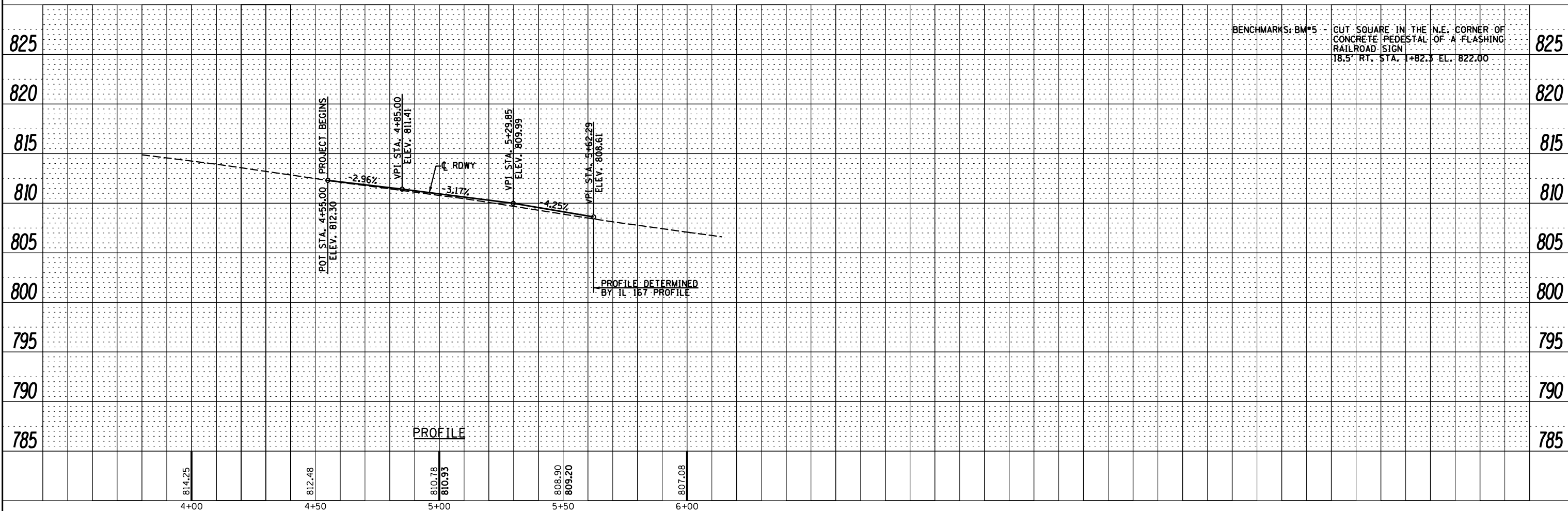
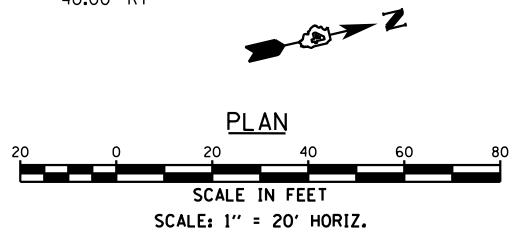
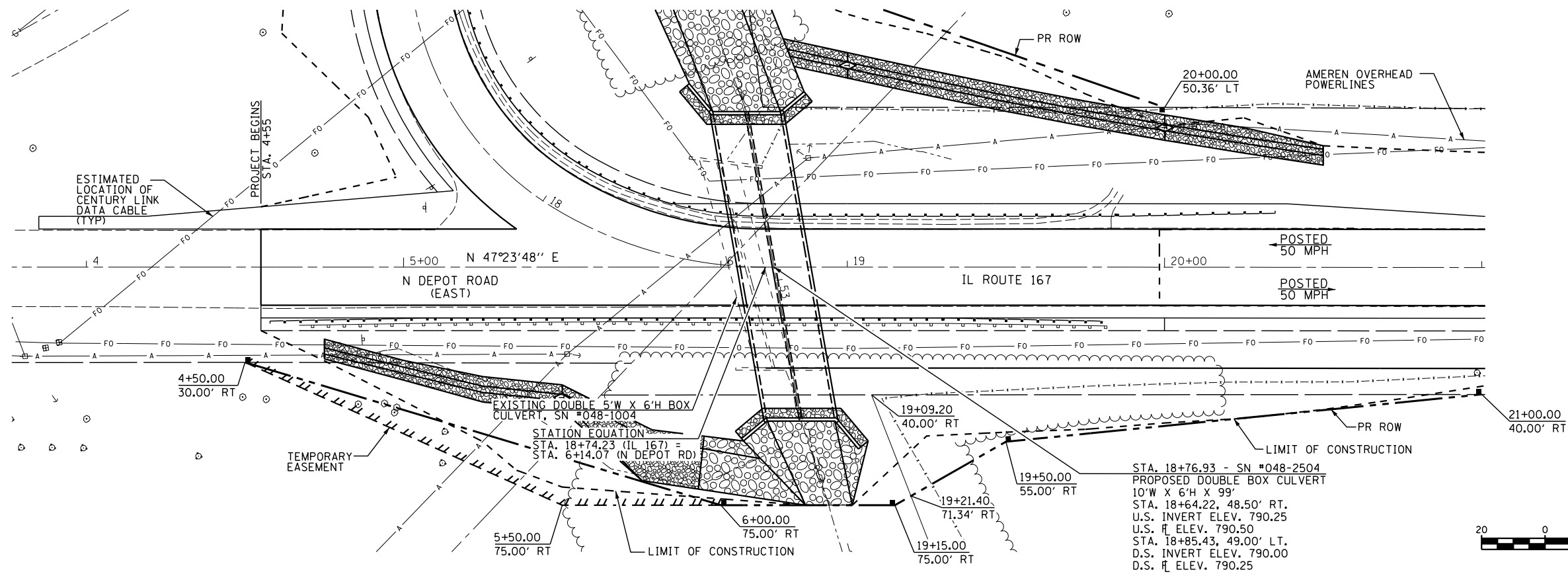
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	PLOTTED	
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	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	NOTATIONS CHECKED	



 Veenstra & Kimm, Inc. Springfield, IL Phone: (217)544-8033	USER NAME = *USER* DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE - N DEPOT ROAD (W)	F.A.S. RTE. 379 SECTION (6.101) CR COUNTY KNOX TOTAL SHEETS 92 SHEET NO. 23 CONTRACT NO. 68C65
	PLOT SCALE = *SCALE* PLOT DATE = *DATE*	SCALE: 20'H : 5'V SHEET 1 OF 1 SHEETS STA. 13+00 TO STA. 17+50			ILLINOIS FED. AID PROJECT

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	NO. _____
	FILE NAME

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS OK'D
	NO. _____



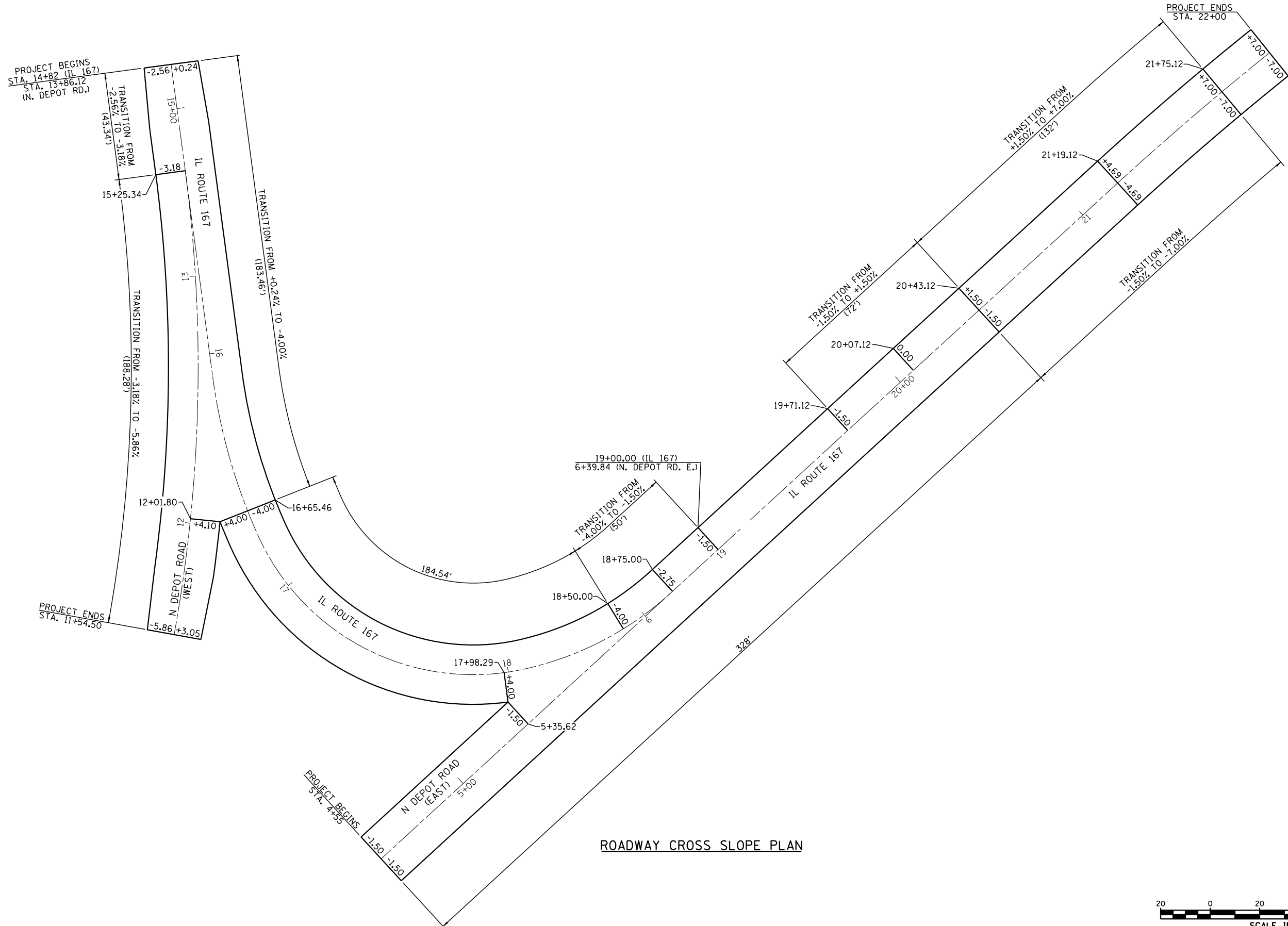
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PLOT DATE = *DATE*	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

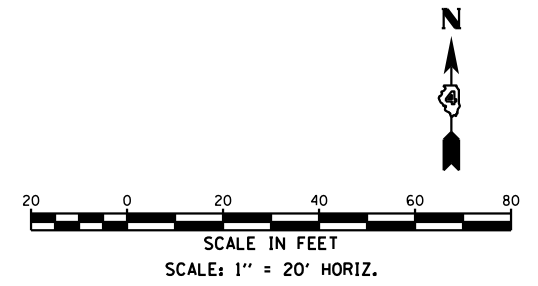
PLAN AND PROFILE - N. DEPOT ROAD (E)

SCALE: 20'H : 5'V SHEET 1 OF 1 SHEETS STA. 13+00 TO STA. 17+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	24
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



ROADWAY CROSS SLOPE PLAN



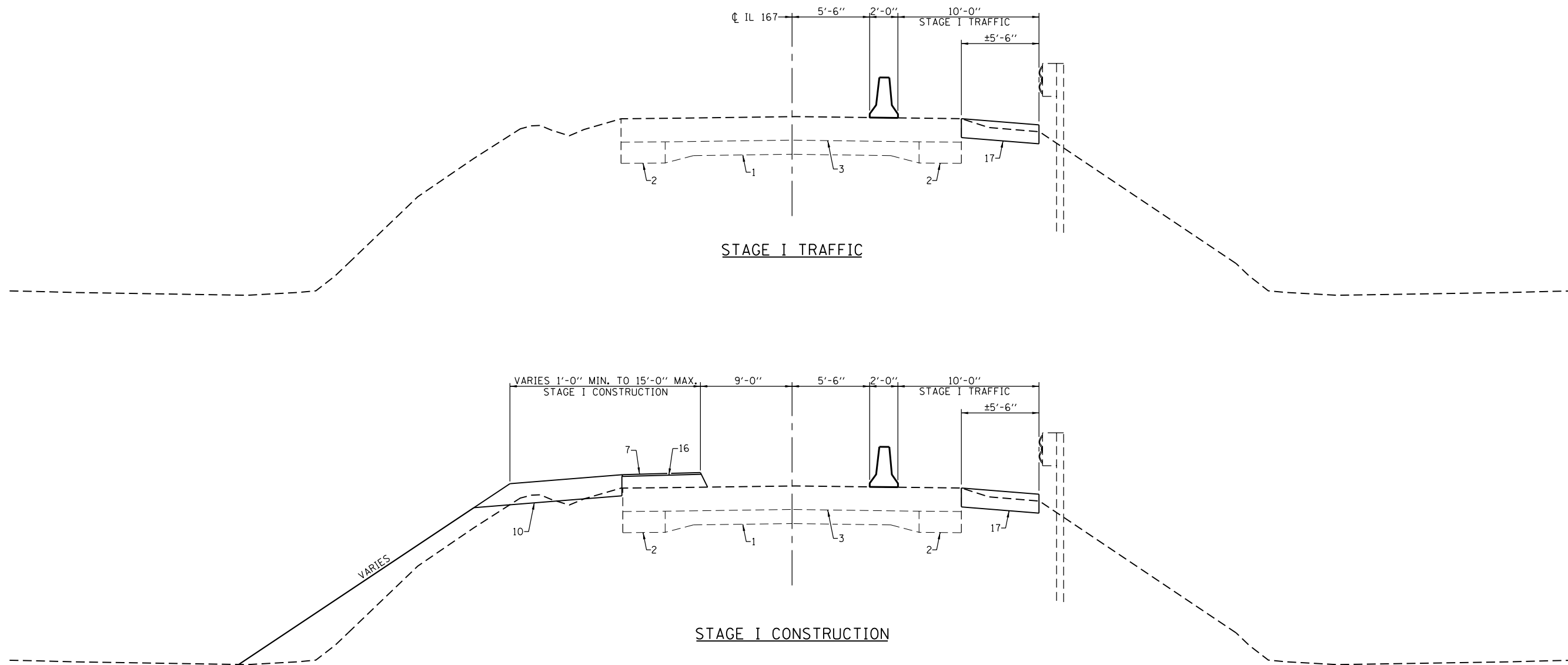
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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SLOPE PLAN

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	25
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



LEGEND

- 1 EXIST PCC PAVEMENT
- 2 EXIST HMA WIDENING
- 3 EXIST HMA OVERLAYS
- 4 EXIST CONCRETE GUTTER
- 5 PROP HMA BASE COURSE 8"
- 6 PROP HMA SURFACE REMOVAL (1" MIN. AT CENTERLINE)
- 7 PROP POLYMERIZED LEVELING BINDER (MACHINE METHOD) 1"
- 8 PROP HMA SURFACE COURSE, MIX C 1 1/2"
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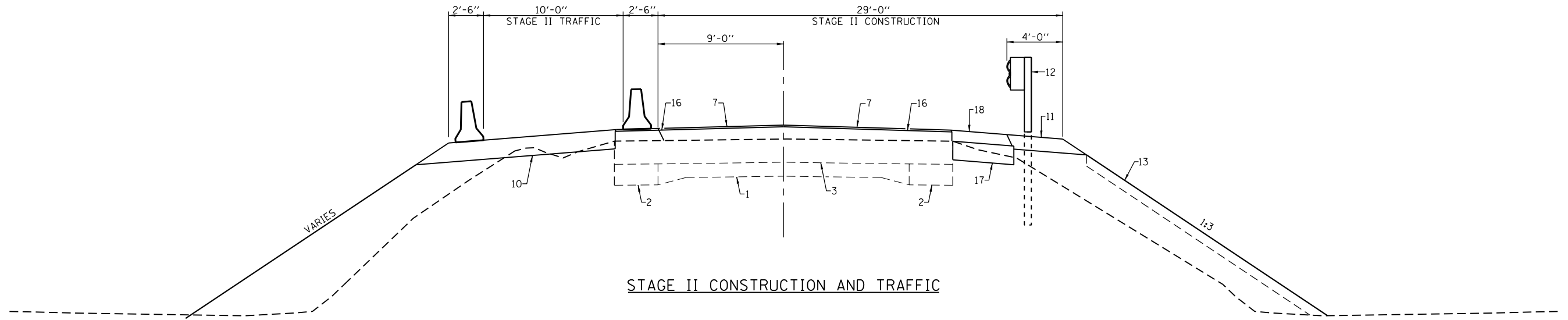
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PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

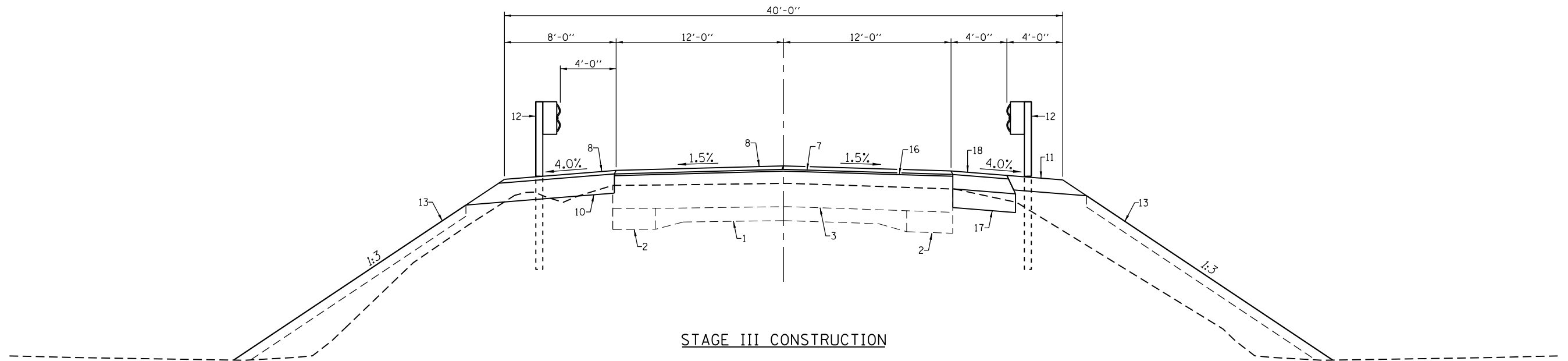
STAGING TYPICAL SECTIONS - 048-2504

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	26
			CONTRACT NO. 68C65	
ILLINOIS FED. AID PROJECT				



STAGE II CONSTRUCTION AND TRAFFIC



STAGE III CONSTRUCTION

LEGEND

- 1 EXIST PCC PAVEMENT
- 2 EXIST HMA WIDENING
- 3 EXIST HMA OVERLAYS
- 4 EXIST CONCRETE GUTTER
- 5 PROP HMA BASE COURSE 8"
- 6 PROP HMA SURFACE REMOVAL (1" MIN. AT CENTERLINE)
- 7 PROP POLYMERIZED LEVELING BINDER (MACHINE METHOD) 1"
- 8 PROP HMA SURFACE COURSE, MIX C 1 1/2"
- 9 PROP AGGREGATE SUBGRADE IMPROVEMENT 12"
- 10 PROP HMA SHLD 8"
- 11 PROP AGGREGATE EROSION CONTROL SHLD 8"
- 12 PROP GUARDRAIL
- 13 PROP TOPSOIL 4" AND EROSION CONTROL BLANKET
- 14 PROP MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- 15 PROP STONE RIPRAP CLASS B4
- 16 PROP HMA BINDER COURSE IL-9.5 N50
- 17 PROP HMA BASE COURSE WIDENING 8"
- 18 PROP HMA SHOULDER (VAR. DEPTH)
- 19 PROP AGGREGATE SHOULDERS, TYPE B



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING TYPICAL SECTIONS - 048-2504

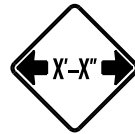
SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	27
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

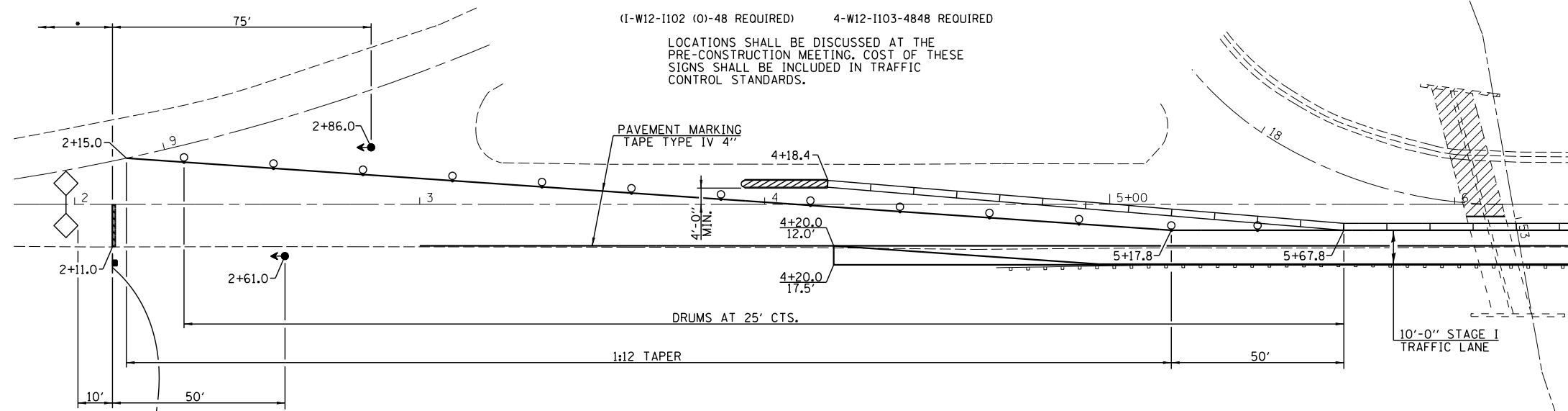
1. THE DISTRICT TRAFFIC DEPARTMENT SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO PLACING THE TEMPORARY SIGNALS IN OPERATION SO THAT ARRANGEMENTS CAN BE MADE TO INSPECT THE INSTALLATION AND SET THE TIMING OF THE SIGNALS.
2. THE SIGNALS, CONTROLLER CABINET AND SERVICE POLE SHALL BE PLACED BEHIND GUARDRAIL (EXISTING OR PROPOSED) OR SHOULDER BREAK WHEN APPLICABLE. SEE TABLE ON SHEET FOR MAXIMUM SIGNAL PLACEMENT.
3. SEE TABLES ON SHEET FOR LOOP DETECTOR LOCATIONS AND NUMBER OF LOOP TURNS.
4. AT ANY TIME THAT THE SIGNALS ARE NOT OPERATING THE SIGNAL HEADS SHALL BE HOODED AND THE SIGNAL AHEAD SIGN COVERED OR REMOVED.
5. THE LEFT SIGNAL SHALL NORMALLY BE MOUNTED AT A HEIGHT OF 10' (3.0 M) ABOVE THE ROAD SURFACE MEASURED TO THE BOTTOM OF THE SIGNAL HEAD. THE RIGHT SIGNAL SHALL NORMALLY BE MOUNTED AT A HEIGHT OF 14' (4.2 M) ABOVE THE ROAD SURFACE AND MEASURED TO THE BOTTOM OF THE SIGNAL HEAD. BACKPLATES WILL BE REQUIRED ON ALL SIGNALS.
6. ALL LENSES SHALL BE 12" (300 MM) NOMINAL DIAMETER. THE RIGHT SIGNAL HEAD SHALL BE AIMED SO THE CENTERS OF THE LIGHT BEAMS OF THE INDICATIONS ARE DIRECTED TOWARD A POINT IN THE CENTER OF THE APPROACH LANE 500' (150 M) IN ADVANCE OF THE SIGNAL. THE LEFT INDICATION SHALL BE AIMED AT A POINT IN THE CENTER OF THE APPROACH LANE 100' (30 M) IN ADVANCE OF THE STOP LINE.
7. ALL EXISTING PAVEMENT MARKINGS IN THE OPEN LANE ARE TO BE REMOVED FROM STOP LINE TO STOP LINE AND SHALL BE PAID FOR AS PART OF STANDARD 701321.
8. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
10. ALL VEHICLES, EQUIPMENT, AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
11. FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK AREA DURING HOURS OF DARKNESS AND INSTALLED ABOVE THE FIRST TWO SIGNS IN EACH SERIES.
12. ON BOTH APPROACHES, EXISTING CENTER LINE PAVEMENT MARKINGS LOCATED BETWEEN THE STOP BARS AND THE TEMPORARY CONCRETE BARRIER OR BRIDGE RAIL SHALL BE REMOVED AS SOON AS THE BARRIER OR RAILS IS IN PLACE AND REPLACED WITH TEMPORARY OR PERMANENT PAVEMENT MARKING AS SOON AS THE BARRIER OR RAIL IS REMOVED.
13. SEE SPECIAL PROVISIONS FOR THE TRAFFIC SIGNAL CONTROLLER AND DETECTOR LOOP REQUIREMENTS.
14. CHANGEABLE MESSAGE SIGNS WILL BE PLACED AT EACH END OF THE PROJECT FOR ONE WEEK TO ADVANCE WARN THE PUBLIC OF WHEN THE DETOUR WILL START.
15. WHEN SPECIFIED, TEMPORARY RUMBLE STRIPS SHALL BE INSTALLED WHERE SHOWN. (STANDARD 702001)

MAX WIDTH
XX'-XX"
X MILES
AHEAD



(1-W12-1102 (0)-48 REQUIRED) 4-W12-1103-4848 REQUIRED

LOCATIONS SHALL BE DISCUSSED AT THE PRE-CONSTRUCTION MEETING. COST OF THESE SIGNS SHALL BE INCLUDED IN TRAFFIC CONTROL STANDARDS.



STAGE I

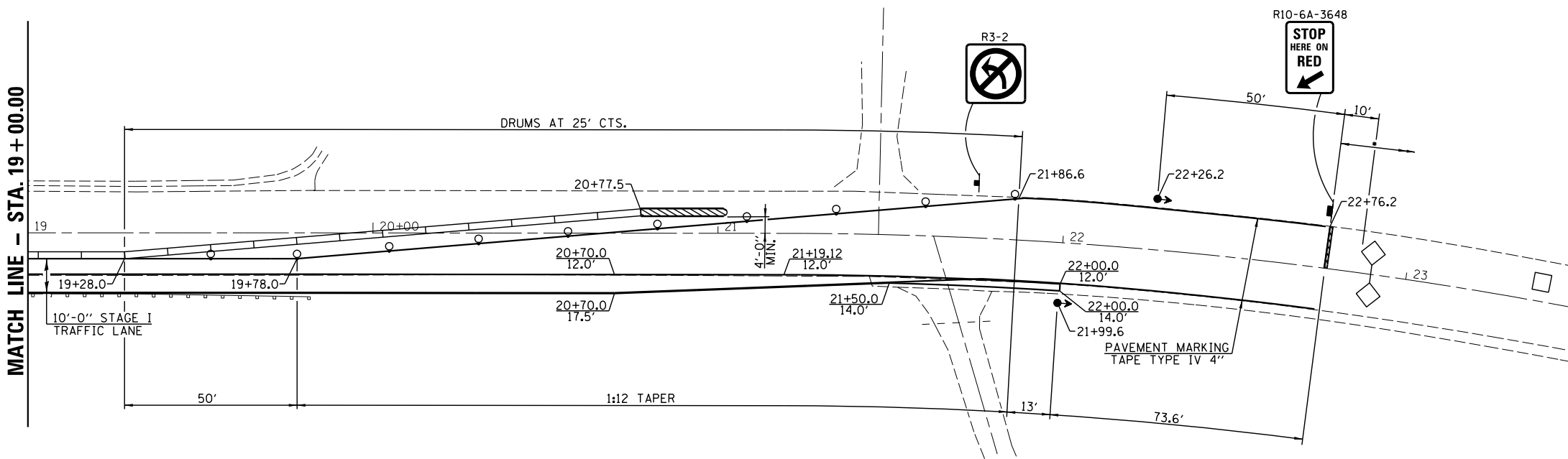


R10-6A-3648

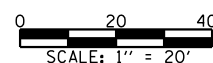
• REMAINDER OF SIGNING PER STD. 701321 AND AS SHOWN

TRAFFIC SIGNAL SEQUENCE									
PHASE	A		B		C				
INTERVAL	1	2	3	4	5	6	7	8	9
NORTHBOUND	G	Y	R	R	R	R	R	R	R
SOUTHBOUND	R	R	R	G	Y	R	R	R	R
ENTRANCE	R	R	R	R	R	R	G	Y	R

MATCH LINE - STA. 19 + 00.00



STAGE I



SYMBOLS

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- IMPACT ATTENUATOR



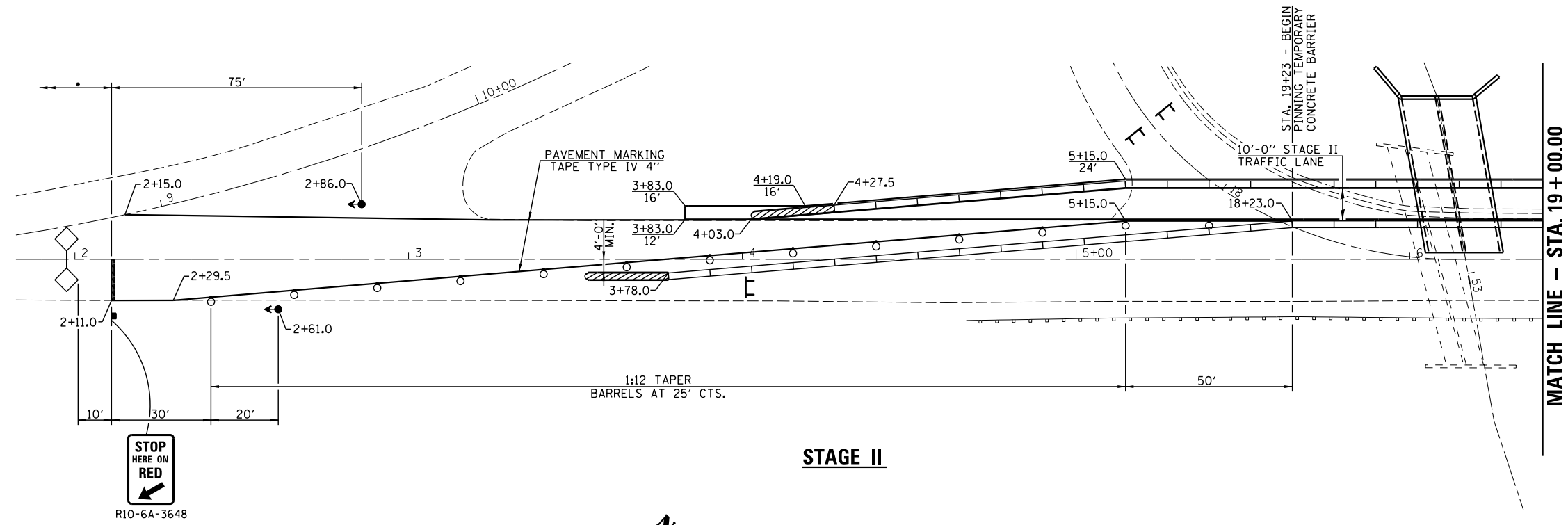
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PLOT DATE =	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

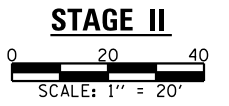
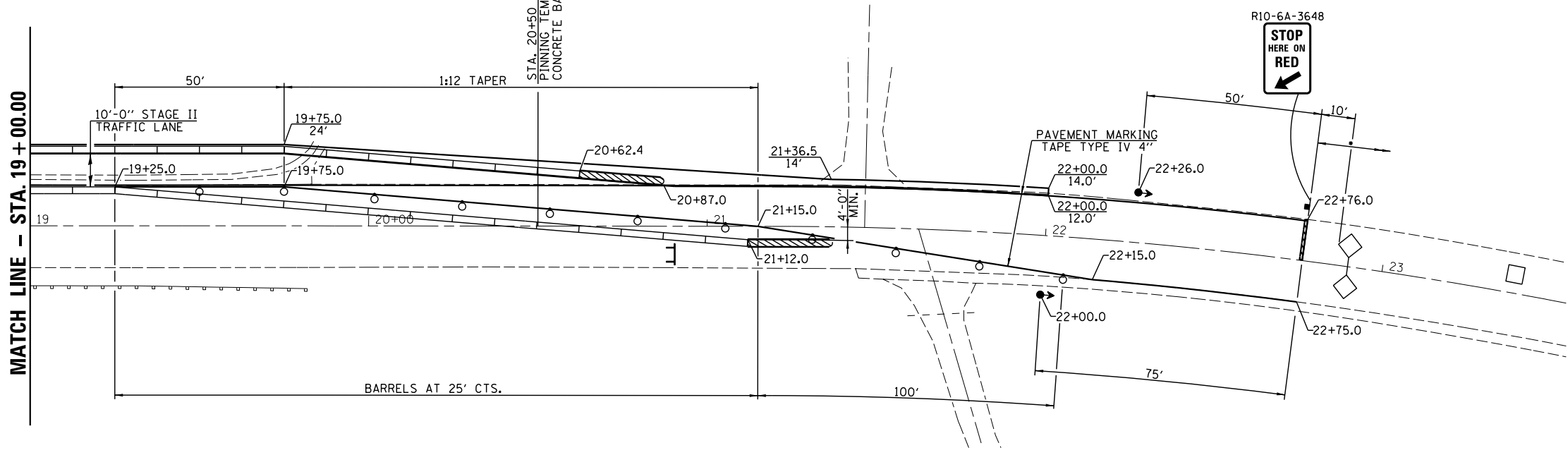
STAGING PLAN SN 048-2504

SCALE: 1"=20' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	28
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



• REMAINDER OF SIGNING PER
 STD. 701321
 SPACING OF SIGNING PER
 STD. 701501 (SOUTH SIDE
 ONLY)



- SYMBOLS**
- ARROW BOARD
 - WORK AREA
 - SIGN
 - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE III BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TEMPORARY CONCRETE BARRIER
 - MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
 - IMPACT ATTENUATOR



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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGING PLAN SN 048-2504

SCALE: 1"=20' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	29
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

SUGGESTED STAGE CONSTRUCTION SEQUENCE

STAGE	PROPOSED CONSTRUCTION SN 048-2503	PROPOSED TRAFFIC CONTROL
I	<p>INSTALL TRAFFIC CONTROL FOR ROAD CLOSURE PER DETOUR PLAN.</p> <p>COMPLETE ALL TREE REMOVAL FOR THE PROJECT NORTH, SOUTH AND WEST OF IL 167.</p> <p>REMOVE EXISTING PAVEMENT AND EXISTING STRUCTURE (SN 048-1002), GUARDRAIL AND GUTTER.</p> <p>COMPLETE BUILDING THE PROPOSED STRUCTURE.</p> <p>INSTALL HMA PAVEMENT, HMA LEVELING BINDER, HMA SHOULDERS 8" AND PERFORM CHANNEL CLEANING AT STRUCTURE.</p> <p>COMPLETE ANY OTHER NECESSARY PROPOSED WORK ON IL 167 AND N. DEPOT ROAD WEST.</p>	<p>CLOSE IL 167 FROM US 34 TO N. DEPOT ROAD EAST USING TC & P STANDARD BLR 21 AND DETOUR PLAN.</p>

STAGE	PROPOSED CONSTRUCTION SN 048-2504	PROPOSED TRAFFIC CONTROL
PRE STAGE I	<p>PERFORM EARTH EXCAVATION WIDENING, INSTALL HMA BASE COURSE WIDENING 8", TEMPORARY CONCRETE BARRIER AND STRIPING PER STAGING PLAN.</p>	<p>USE TCP STANDARD 701326.</p>
I	<p>INSTALL NECESSARY TRAFFIC CONTROL PER STAGING PLAN.</p> <p>PERFORM EARTH EXCAVATION WIDENING, INSTALL HMA BASE COURSE WIDENING 8", TEMPORARY CONCRETE BARRIER AND STRIPING PER STAGING PLAN.</p> <p>REMOVE PAVEMENT AND WEST PORTION OF SN 048-1004. COMPLETE THE WEST PORTION OF THE PROPOSED STRUCTURE.</p> <p>INSTALL EMBANKMENT PER STAGE II CROSS SECTIONS INCLUDING DITCHES. ALSO INSTALL HMA PAVEMENT, HMA BINDER, LEVELING BINDER AND HMA SHOULDERS 8" PER STAGING TYPICALS. PERFORM CHANNEL CLEANING.</p>	<p>USE TCP STANDARDS 701321, 701306 AND 701501. OPEN N. DEPOT ROAD SO TRAFFIC CAN ACCESS US 34 FROM WATAGA AND VICE VERSA.</p>
II	<p>INSTALL TEMPORARY CONCRETE BARRIER AND STRIPING PER STAGING PLAN.</p> <p>COMPLETE TREE REMOVAL EAST OF IL 167 AND REMOVE PAVEMENT AND EAST PORTION OF SN 048-1004. COMPLETE THE EAST PORTION OF THE PROPOSED STRUCTURE.</p> <p>REMOVE 1.5' OF HMA BASE COURSE WIDENING, INSTALL HMA PAVEMENT, HMA BINDER, LEVELING BINDER, HMA SHOULDERS 8", AND AGGREGATE EROSION CONTROL.</p> <p>INSTALL EMBANKMENT AND TOPSOIL PER FINAL CROSS SECTIONS AND COMPLETE CHANNEL CLEANING AT STRUCTURE.</p> <p>INSTALL GUARDRAIL ON EAST SIDE OF STRUCTURE.</p> <p>INSTALL HMA SURFACE COURSE UP TO CENTERLINE WHILE TEMPORARY CONCRETE BARRIER IS IN PLACE.</p>	<p>USE TCP STANDARD 701321</p>
III	<p>REMOVE EXCESS HMA SHOULDER 8" ON WEST SIDE.</p> <p>COMPLETE EMBANKMENT AND TOPSOIL, GUARDRAIL INSTALLATION, HMA SURFACE COURSE, LANDSCAPING AND STRIPING PER PLANS.</p> <p>REMOVE ALL DETOUR AND TRAFFIC CONTROL SIGNAGE AND OPEN ROAD TO TRAFFIC.</p>	<p>USE TCP STANDARDS 701006, 701301, 701306 AND 701311.</p>



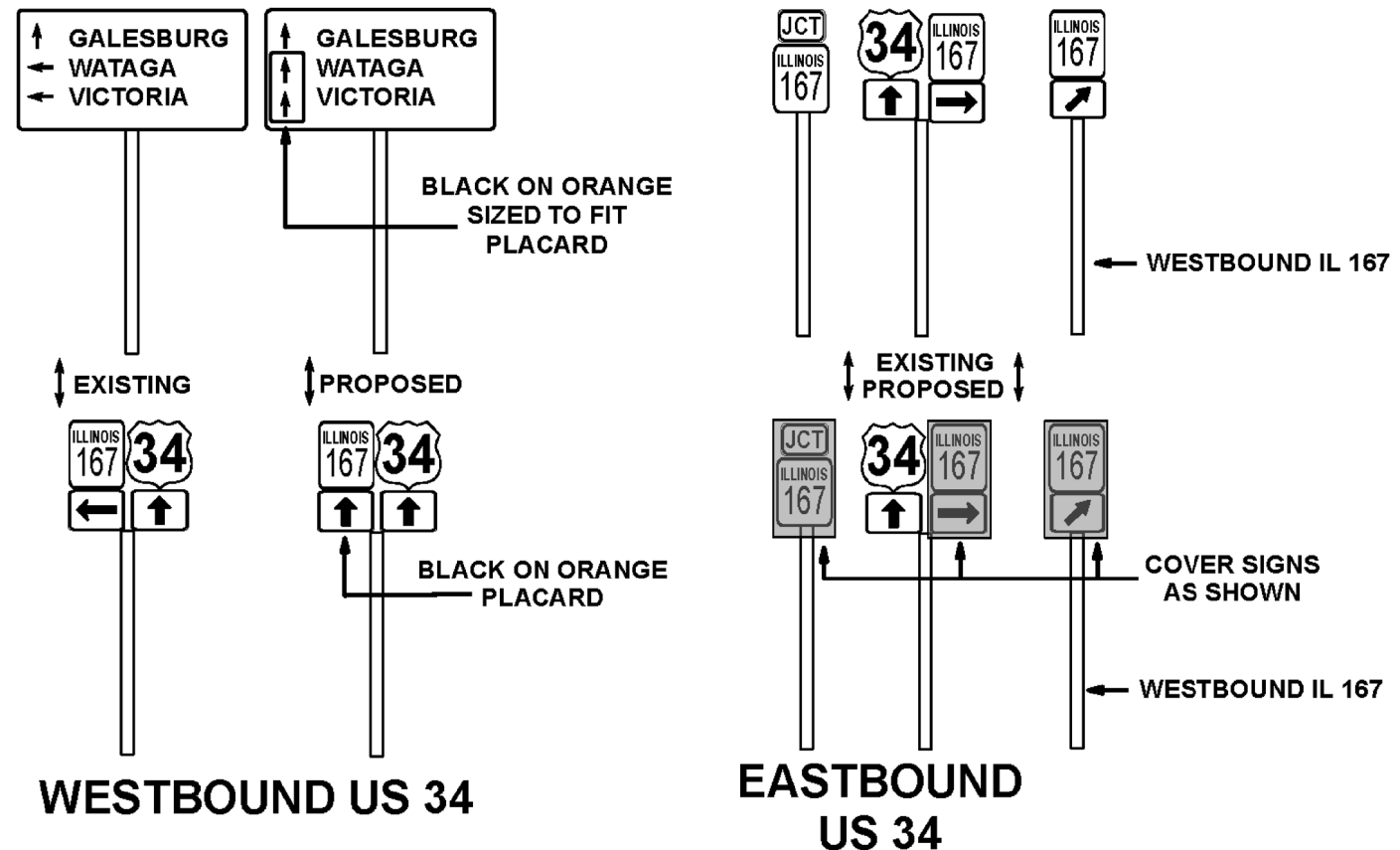
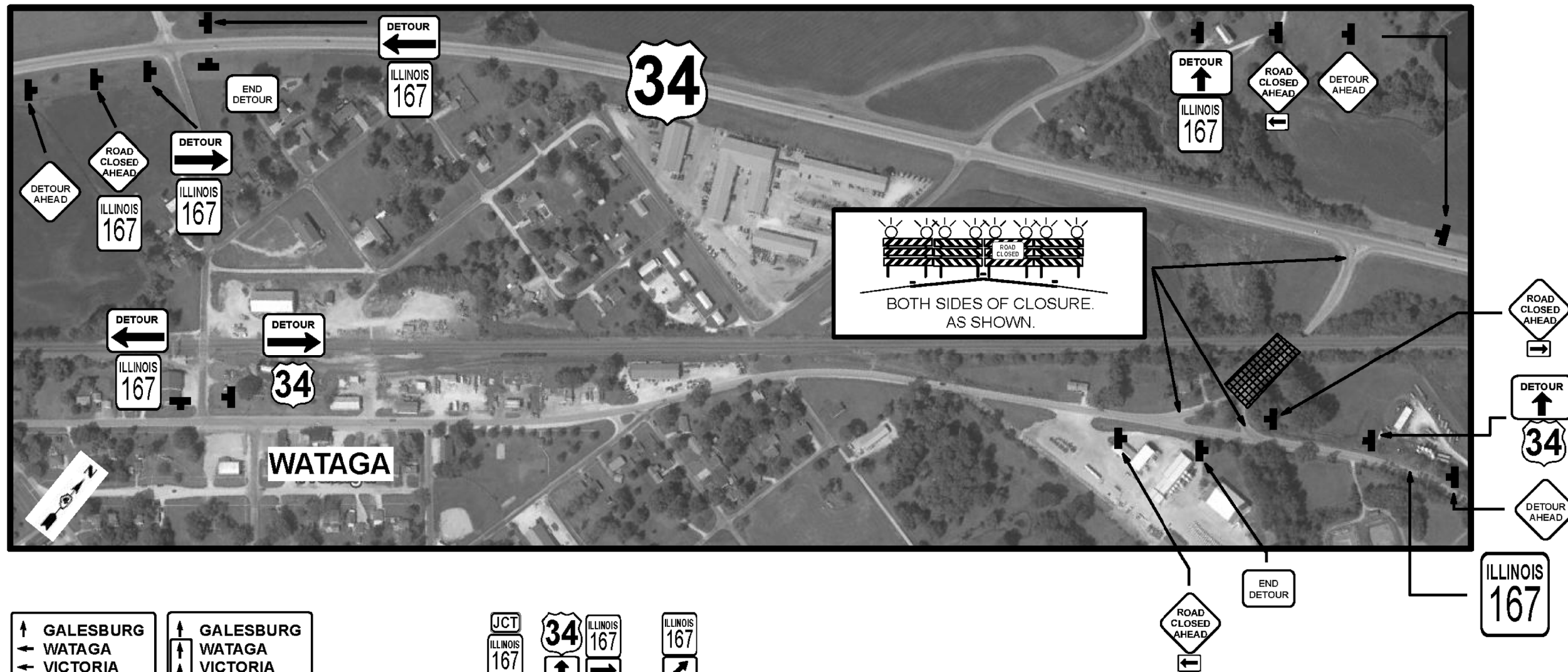
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE CONSTRUCTION SEQUENCE

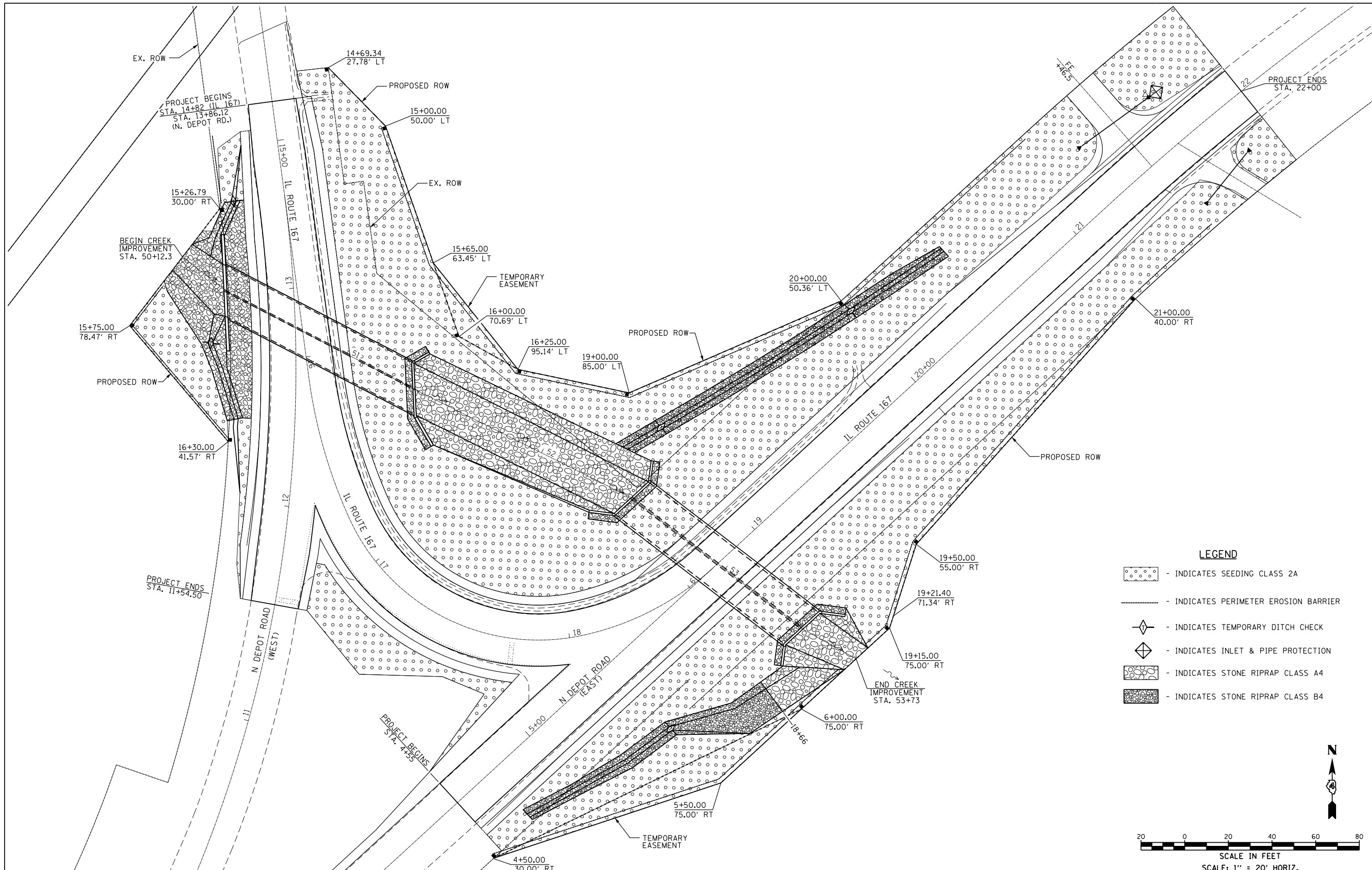
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	30
				CONTRACT NO. 68C65
ILLINOIS FED. AID PROJECT				

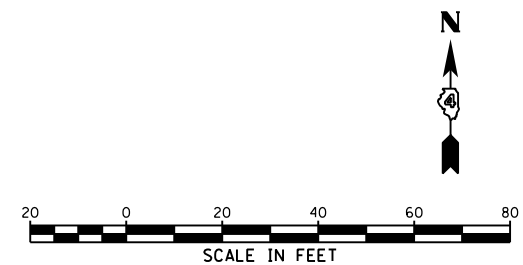


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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	31
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- INDICATES SEEDING CLASS 2A
 - INDICATES PERIMETER EROSION BARRIER
 - INDICATES TEMPORARY DITCH CHECK
 - INDICATES INLET & PIPE PROTECTION
 - INDICATES STONE RIPRAP CLASS A4
 - INDICATES STONE RIPRAP CLASS B4



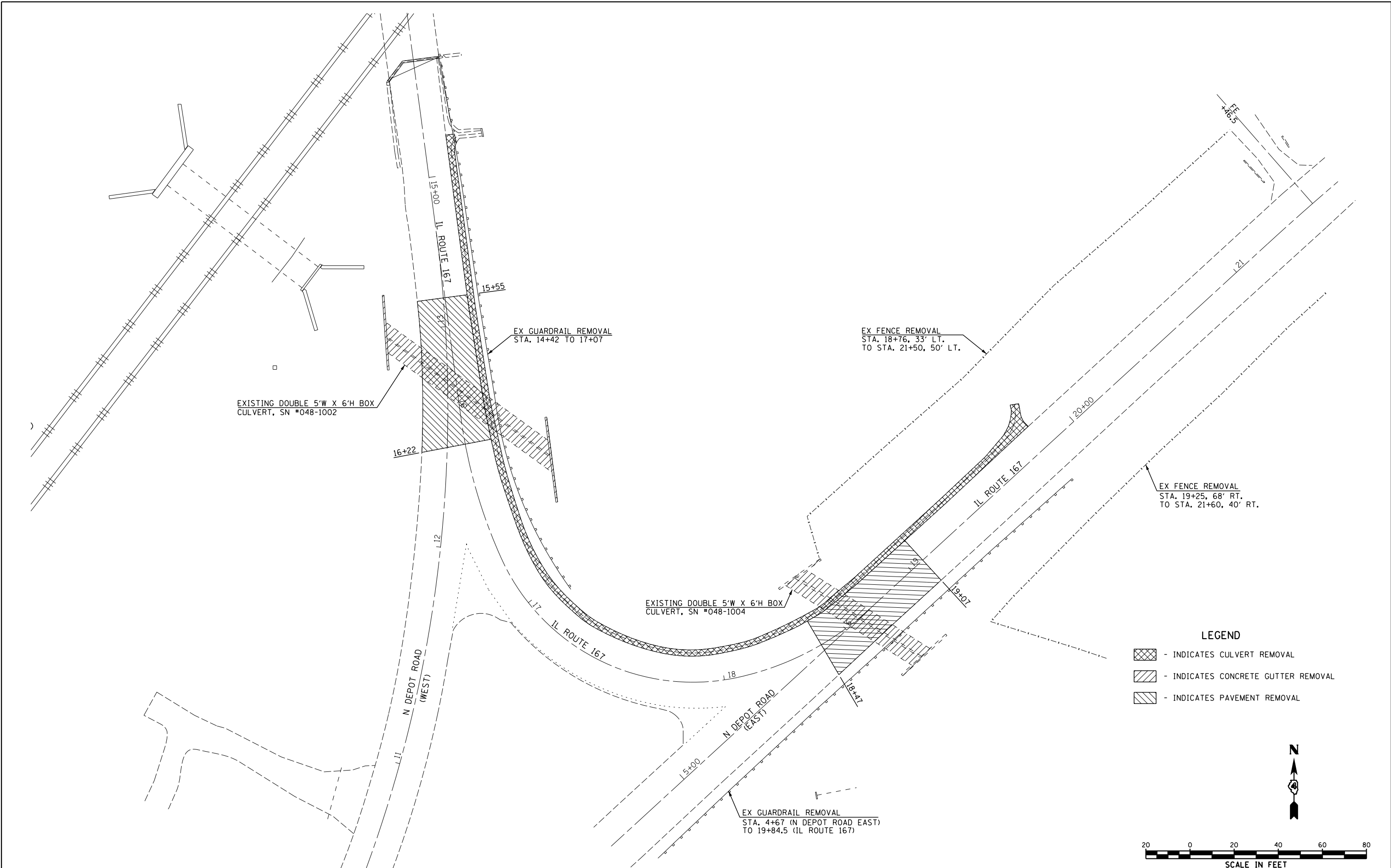
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 14+10 TO STA. 21+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	33
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



EXISTING DOUBLE 5'W X 6'H BOX
CULVERT, SN #048-1002

EX GUARDRAIL REMOVAL
STA. 14+42 TO 17+07

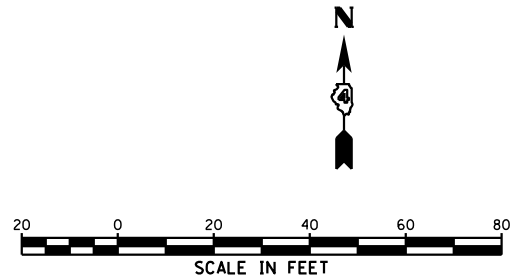
EX FENCE REMOVAL
STA. 18+76, 33' LT.
TO STA. 21+50, 50' LT.

EX FENCE REMOVAL
STA. 19+25, 68' RT.
TO STA. 21+60, 40' RT.

EXISTING DOUBLE 5'W X 6'H BOX
CULVERT, SN #048-1004

EX GUARDRAIL REMOVAL
STA. 4+67 (N DEPOT ROAD EAST)
TO 19+84.5 (IL ROUTE 167)

- LEGEND**
- INDICATES CULVERT REMOVAL
 - INDICATES CONCRETE GUTTER REMOVAL
 - INDICATES PAVEMENT REMOVAL



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 14+10 TO STA. 21+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	34
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

Benchmark: BM#3 - Railroad spike in power pole 2948779, northwesterly side of IL167 where the road curves from northeast to east on the north side of Wataga, IL.
 Station 28+04.60, 67.5' LT., Elev. = 823.29
 Existing Structure: Cast in place double barrel box culvert (6'-0" x 5'-0") with cast in place wingalls (SN 048-1002) built in 1928 under Section 101.
 Traffic to be detoured. Project will be built under road closure.

No Salvage.

**See Roadway Plans, Sheet 24

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
Ed. Carl Kung
 ENGINEER OF BRIDGES AND STRUCTURES

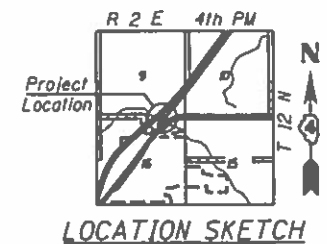
- INDEX OF SHEETS**
1. General Plan & Elevation
 2. General Data
 3. Culvert Plan
 - 4-6. Culvert Details
 7. Soil Borings

LOADING HL 93
 Allow 50#/sq. ft. for future wearing surface
DESIGN SPECIFICATIONS
 2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.

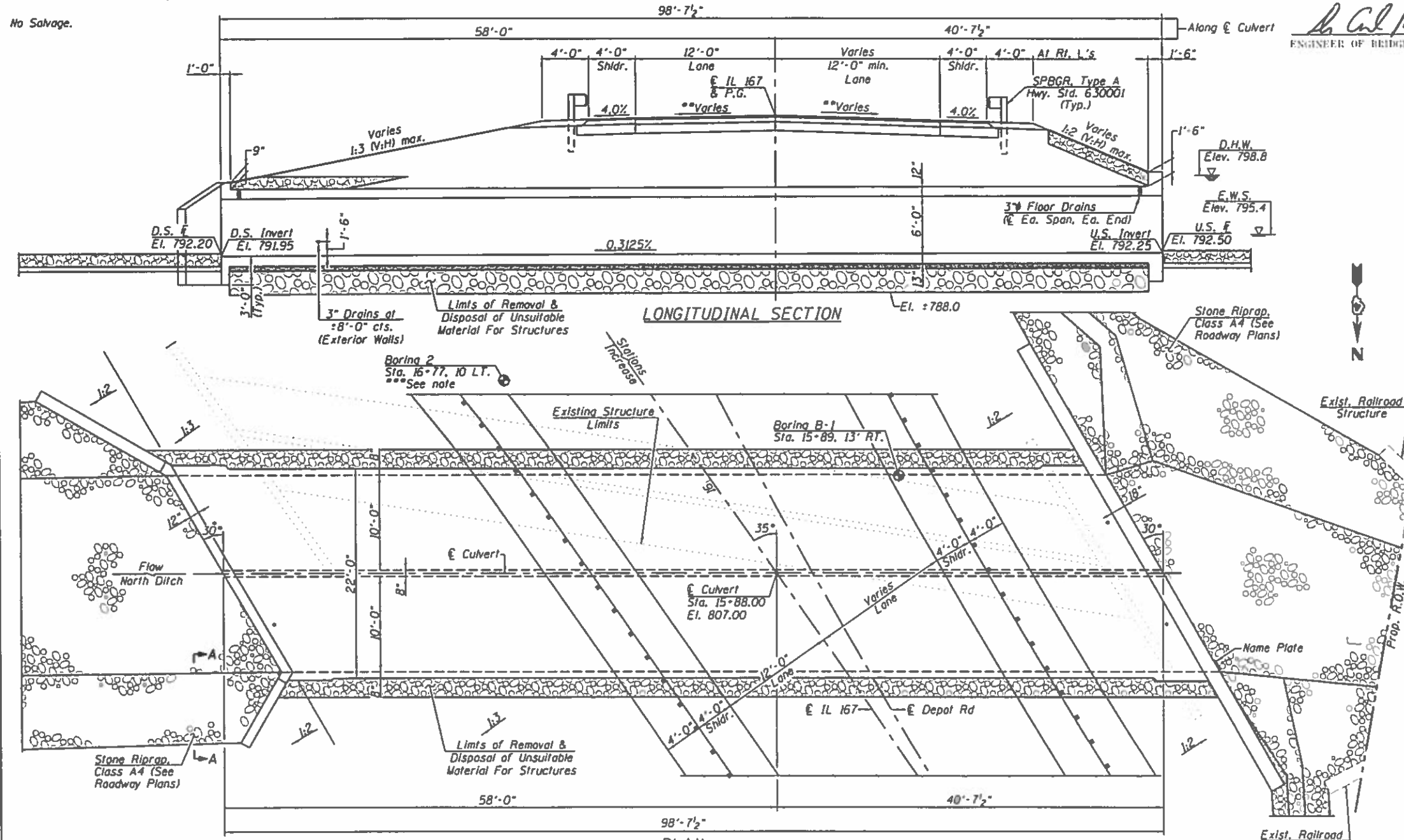
DESIGN STRESSES
FIELD UNITS
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

STA. 15+88.00
 BUILT 20 BY
 STATE OF ILLINOIS
 FAS RTE. 379 SEC. 16,101CR
 LOADING HL 93
 STR. NO. 048-2503

NAME PLATE
 (Standard 515001)



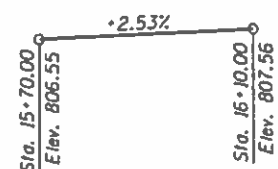
***Note: Boring 2 is not displayed in its correct location. This boring is located 89.0' from the E Culvert Sta. 15+88.00 along E IL 167.



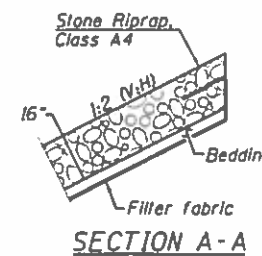
WATERWAY INFORMATION

Drainage Area = 1.27 Sq. Mi.		Existing Overtopping Elevation 805.6 @ Sta. 14+56		Proposed Overtopping Elevation 805.6 @ Sta. 14+56		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
	10	471	55	797.8	1.3	799.1
Design	50	766	60	798.8	6.6	805.4
Base	100	904	60	799.2	6.8	806.0
OVT(E)	50	766	60	798.8	6.6	805.4
OVT(P)	>500	N/A	120	N/A	N/A	N/A
Max. Calc.	500	1240	60	800.0	6.8	806.8

10 Year Outlet Velocity from Existing Structure = 8.9 fps
 10 Year Outlet Velocity from Proposed Structure = 4.9 fps



PROFILE GRADE
 (Along E IL 167)



SECTION A-A



M. B. Henderson 6/1/19
 EXPIRATION: 11/30/2020

GENERAL PLAN & ELEVATION
 IL ROUTE 167 OVER NORTH DITCH
 F.A.S. ROUTE 379 - SECTION (6,10)1CR
 KNOX COUNTY
 STA. 15+88.00
 STRUCTURE NO. 048-2503



USER NAME	DESIGNED	REVISIONS
	-	-
	-	-
	-	-
	-	-
	-	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION

SHEET NO. 1 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	16,101CR	KNOX	92	35
CONTRACT NO. 68C65				

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	563
Removal of Existing Structures No. 1	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	257
Reinforcement Bars, Epoxy Coated	Pound	41720
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	247.6
Rock Fill	Ton	616
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	325

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 At least 6 ft. of the barrel shall be poured monolithically with the wingwalls.
 Precast alternate not allowed.
 The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

EXISTING CURVE DATA

(IL RTE 167)

PI STA. = 16+43.16
 $\Delta = 16^\circ 45' 44''$ (LT)
 $D = 24^\circ 54' 52''$
 $R = 229.97'$
 $T = 33.88'$
 $L = 67.28'$
 $E = 2.48'$
 P.C. STA. = 16+09.28
 P.T. STA. = 16+76.56

EXISTING CURVE DATA

(N. DEPOT ROAD)

PI STA. = 10+80.71
 $\Delta = 53^\circ 47' 05''$ (LT)
 $D = 9^\circ 26' 07''$
 $R = 607.25'$
 $T = 307.97'$
 $L = 570.04'$
 $E = 73.63'$
 P.C. STA. = 7+72.74
 P.T. STA. = 13+42.78



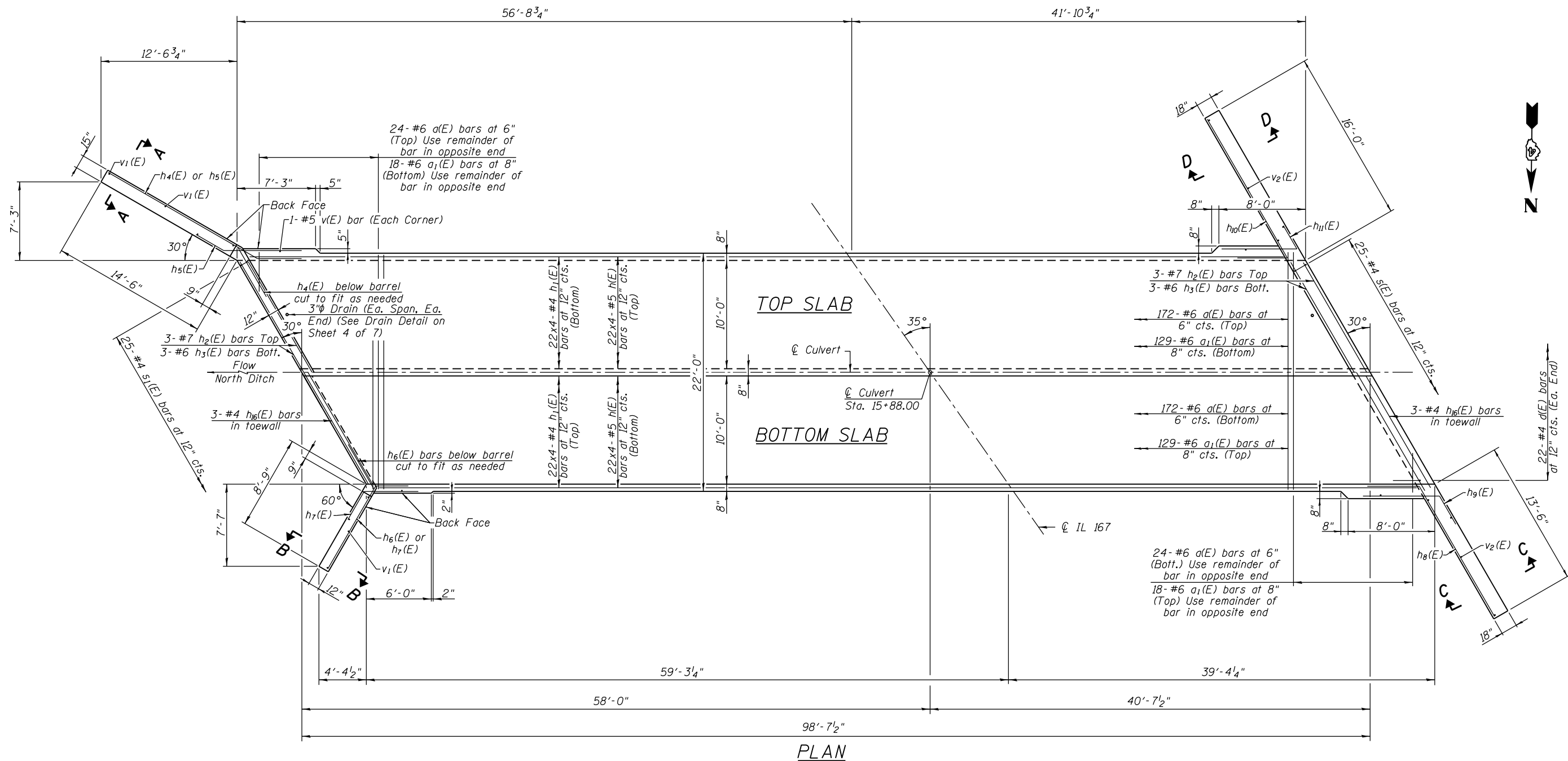
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 048-2503**

SHEET NO. 2 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101)CR	KNOX	92	36
			CONTRACT NO. 68C65	
ILLINOIS FED. AID PROJECT				



MIN. BAR LAPS
 #4 bars = 2'-7"
 #5 bars = 3'-2"

At least six feet of the barrel shall be poured monolithically with the wingwalls.



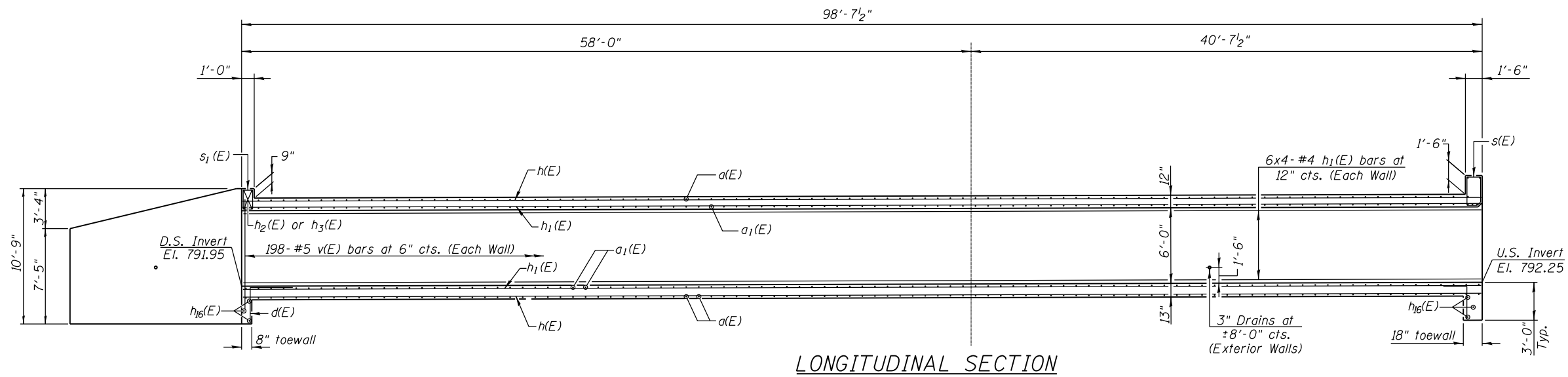
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PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

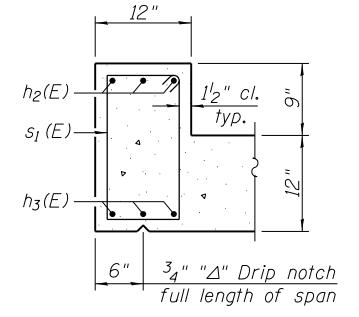
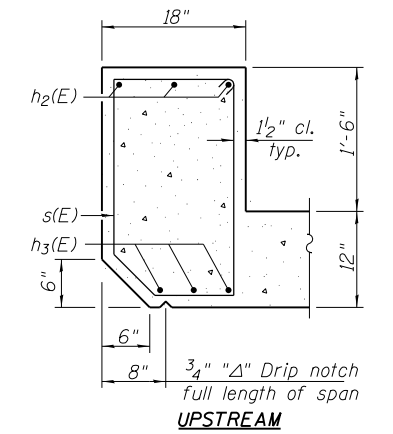
**CULVERT PLAN
STRUCTURE NO. 048-2503**

SHEET NO. 3 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,10)CR	KNOX	92	37
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



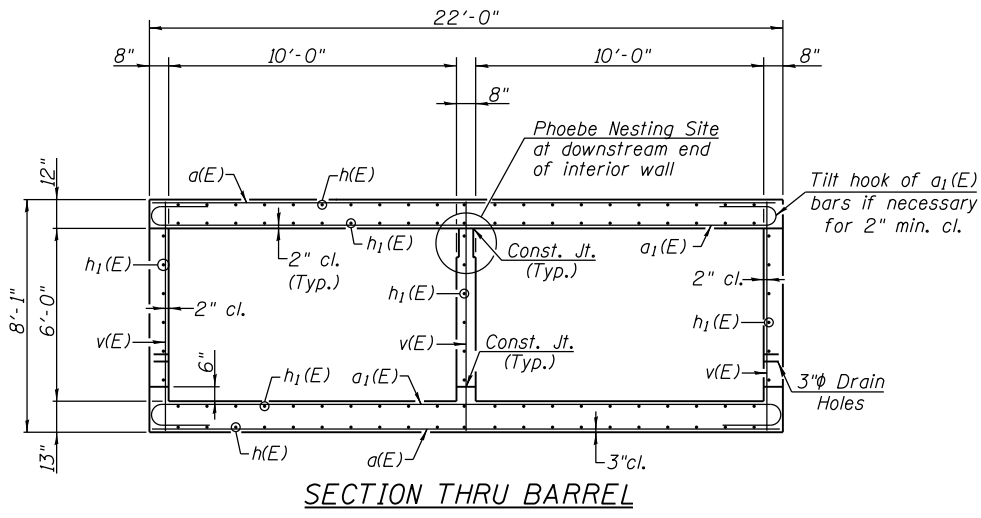
LONGITUDINAL SECTION



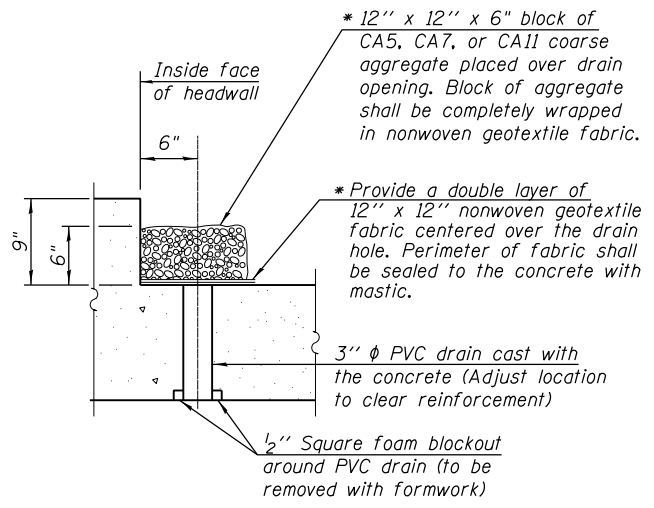
SECTION THRU HEADWALL

MIN. BAR LAP

#4 bars = 2'-7"
#5 bars = 3'-2"



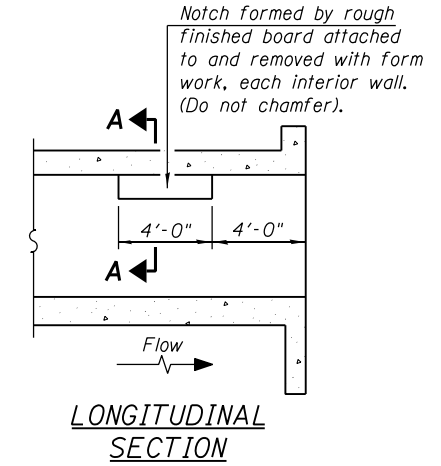
SECTION THRU BARREL



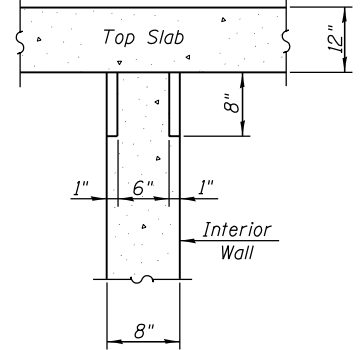
DRAIN DETAIL

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

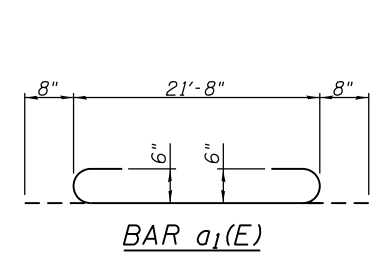
* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



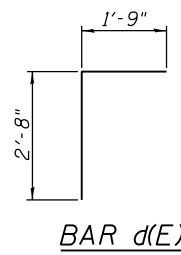
LONGITUDINAL SECTION



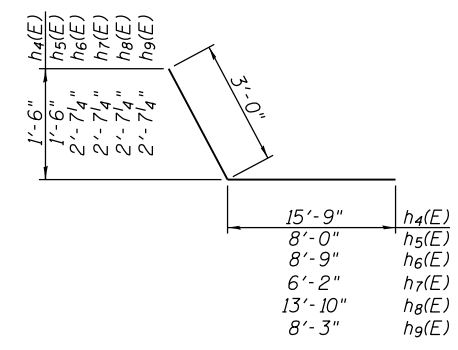
SECTION A-A PHOEBE NESTING SITE DETAILS (Downstream End Only)



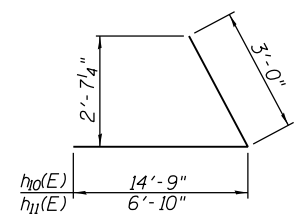
BAR a₁(E)



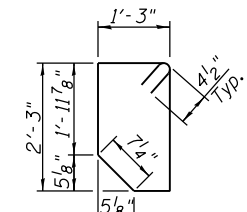
BAR d(E)



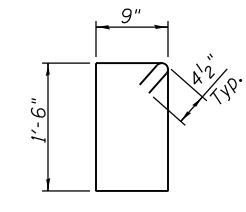
BARS h₄(E), h₅(E), h₆(E), h₇(E), h₈(E) & h₉(E)



BARS h₁₀(E) & h₁₁(E)



BAR s(E)



BAR s₁(E)

BILL OF MATERIAL

Bar No.	Size	Length	Shape
a(E)	392 #6	21'-8"	—
a ₁ (E)	294 #6	23'-0"	—
d(E)	44 #4	4'-5"	—
h(E)	176 #5	27'-1"	—
h ₁ (E)	248 #4	26'-7"	—
h ₂ (E)	6 #7	25'-5"	—
h ₃ (E)	6 #6	25'-5"	—
h ₄ (E)	15 #7	18'-9"	—
h ₅ (E)	16 #7	11'-0"	—
h ₆ (E)	14 #5	11'-9"	—
h ₇ (E)	16 #5	9'-2"	—
h ₈ (E)	13 #7	16'-10"	—
h ₉ (E)	11 #7	11'-3"	—
h ₁₀ (E)	12 #8	17'-9"	—
h ₁₁ (E)	11 #8	9'-10"	—
h ₁₂ (E)	6 #5	15'-6"	—
h ₁₃ (E)	6 #5	18'-0"	—
h ₁₄ (E)	5 #7	19'-5"	—
h ₁₅ (E)	5 #8	20'-0"	—
h ₁₆ (E)	6 #4	25'-6"	—
s(E)	25 #4	7'-5"	—
s ₁ (E)	25 #4	5'-3"	—
v(E)	598 #5	7'-9"	—
v ₁ (E)	8 #4	10'-5"	—
v ₂ (E)	8 #4	11'-2"	—
Concrete Box Culverts	Cu. Yd.	247.6	
Reinforcement Bars, Epoxy Coated	Pound	41720	



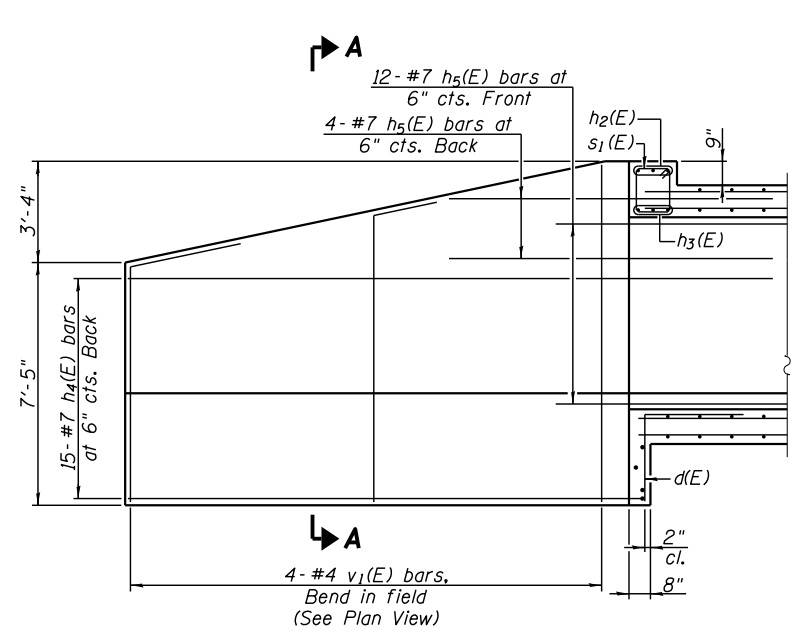
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PLOT SCALE =	CHECKED - MAH	REVISED -
PLOT DATE = 2/18/2019	DRAWN - JRP	REVISED -
	CHECKED - MAH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

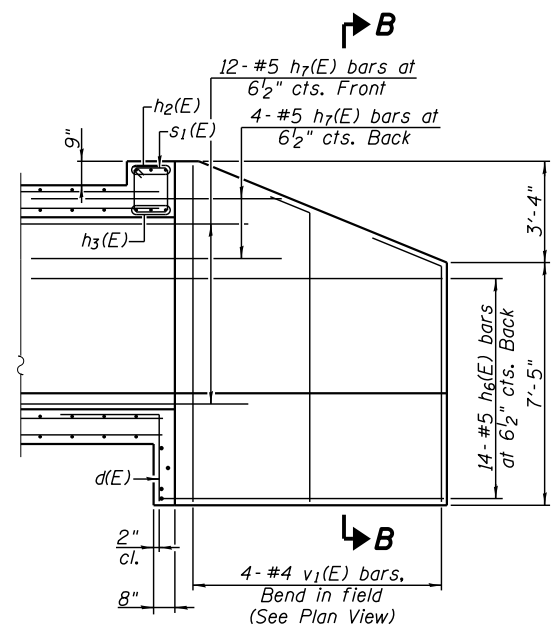
CULVERT DETAILS
STRUCTURE NO. 048-2503

SHEET NO. 4 OF 7 SHEETS

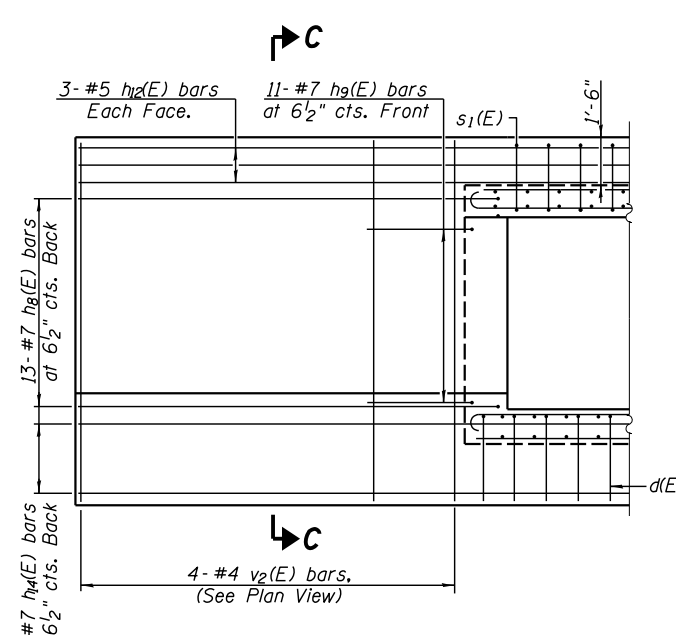
F.A.S. RTE. 379	SECTION (6,10)ICR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 38
CONTRACT NO. 68C65				ILLINOIS FED. AID PROJECT



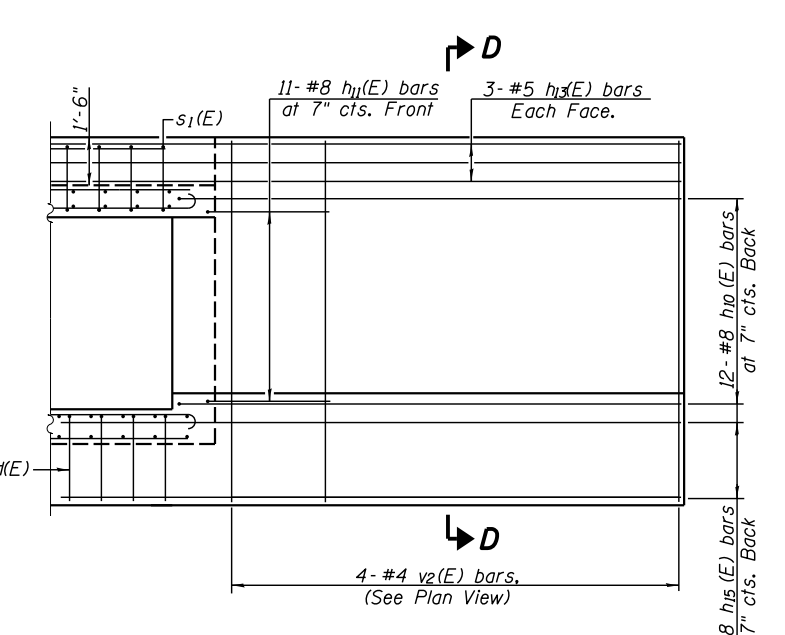
ELEVATION
(Southeast Wing)



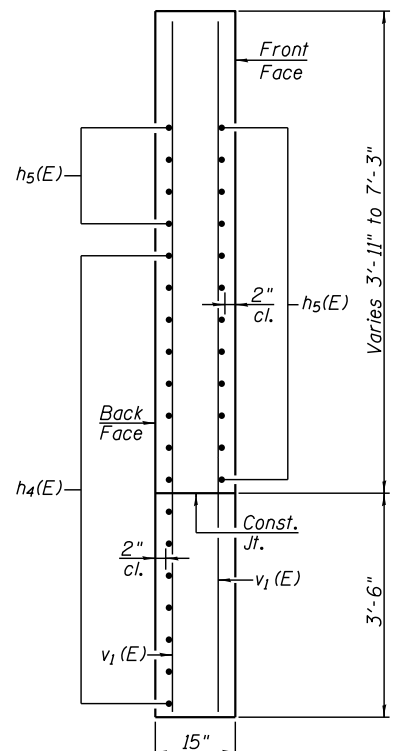
ELEVATION
(Northeast Wing)



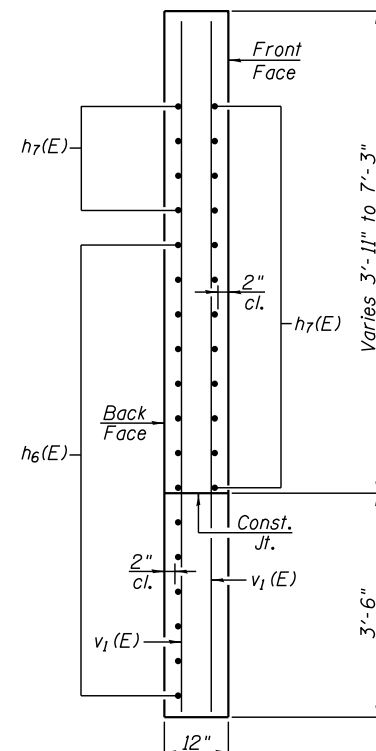
ELEVATION
(Northwest Wing)



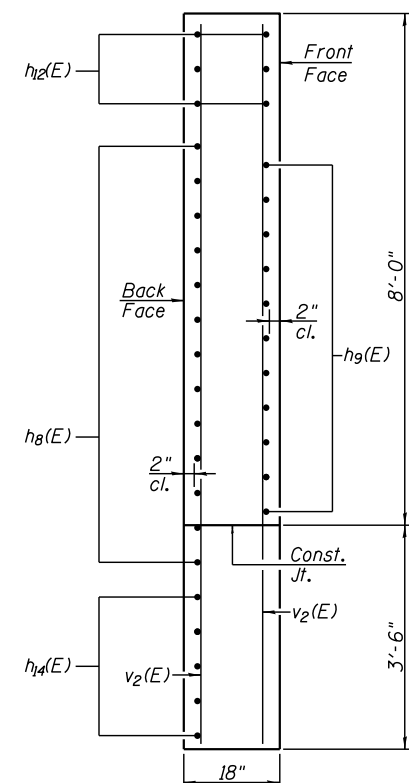
ELEVATION
(Southwest Wing)



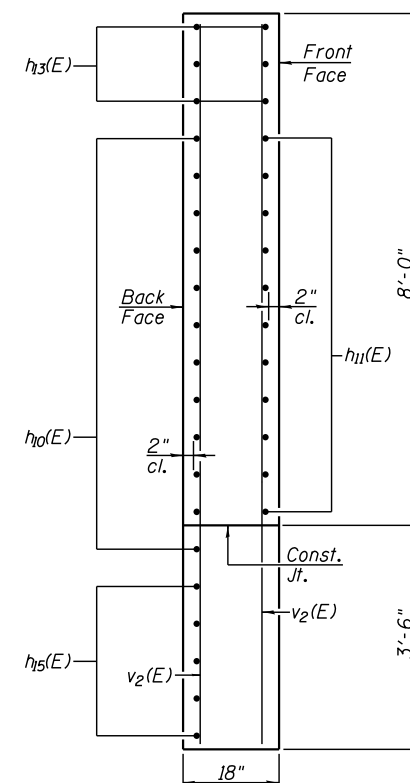
SECTION A-A
(Southeast Wing)



SECTION B-B
(Northeast Wing)



SECTION C-C
(Northwest Wing)



SECTION D-D
(Southwest Wing)



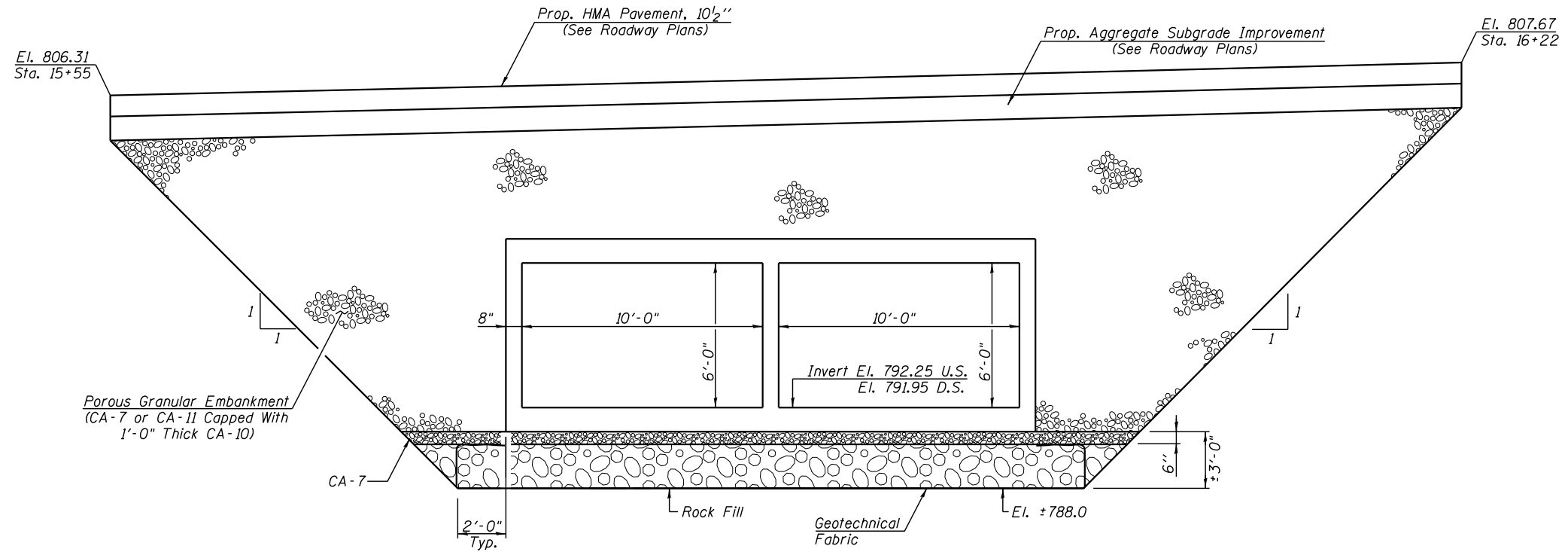
USER NAME =	DESIGNED -	REVISD -
	CHECKED -	REVISD -
PLOT SCALE =	DRAWN -	REVISD -
PLOT DATE =	CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

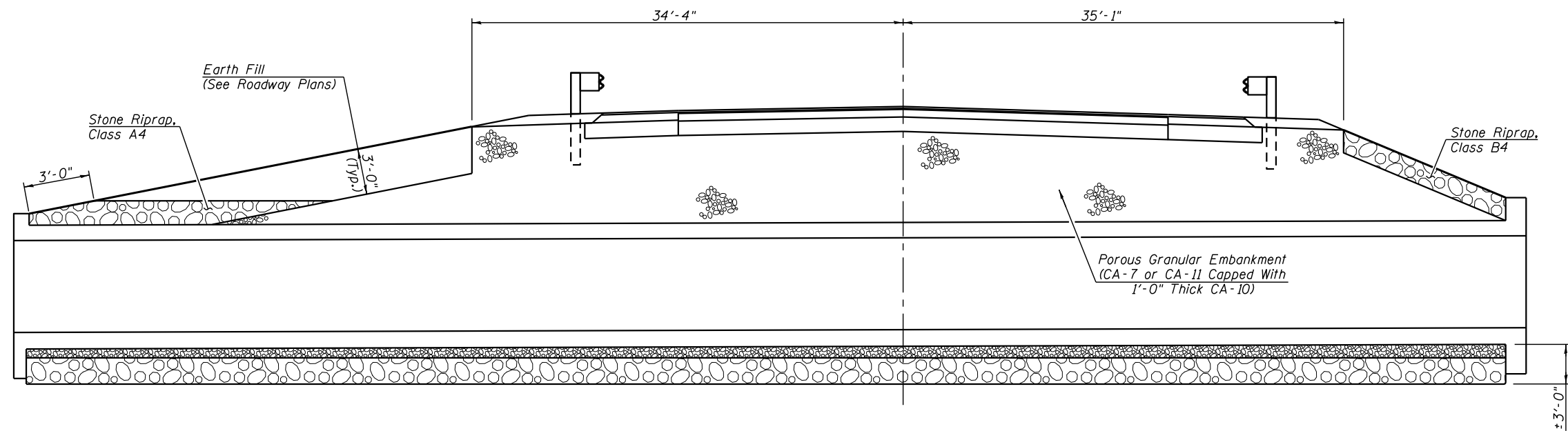
CULVERT DETAILS
STRUCTURE NO. 048-2503

SHEET NO. 5 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101)CR	KNOX	92	39
			CONTRACT NO. 68C65	
ILLINOIS FED. AID PROJECT				



SECTION THRU CULVERT
(Looking Northeast)



ELEVATION



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS
STRUCTURE NO. 048-2503**

SHEET NO. 6 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101)CR	KNOX	92	40
CONTRACT NO. 68C65				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Date 6/28/17

ROUTE FAS 379 (IL 167) DESCRIPTION Structure Boring for Culvert Replacement LOGGED BY JLO/JW

SECTION (6, 101) CR LOCATION West end of west culvert, SEC. 16, TWP. 12 N, RNG. 2 E, 4th PM, Latitude 41d 01' 58.7" N, Longitude 90d 16' 24.4" W

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE AUTO

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil data columns (D, B, U, M, etc.)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/28/17

ROUTE FAS 379 (IL 167) DESCRIPTION Structure Boring for Culvert Replacement LOGGED BY JLO/JW

SECTION (6, 101) CR LOCATION East end of west culvert, SEC. 16, TWP. 12 N, RNG. 2 E, 4th PM, Latitude 41d 01' 57.9" N, Longitude 90d 16' 23.8" W

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE AUTO

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil data columns (D, B, U, M, etc.)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/28/17

ROUTE FAS 379 (IL 167) DESCRIPTION Structure Boring for Culvert Replacement LOGGED BY JLO/JW

SECTION (6, 101) CR LOCATION Midway between culverts, SEC. 16, TWP. 12 N, RNG. 2 E, 4th PM, Latitude 41d 01' 58.9" N, Longitude 90d 16' 22.2" W

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE AUTO

Table with columns for STRUCT. NO., BORING NO., Station, Offset, Ground Surface Elev., and soil data columns (D, B, U, M, etc.)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, REVISED, DRAWN, CHECKED, REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORINGS STRUCTURE NO. 048-2503

SHEET NO. 7 OF 7 SHEETS

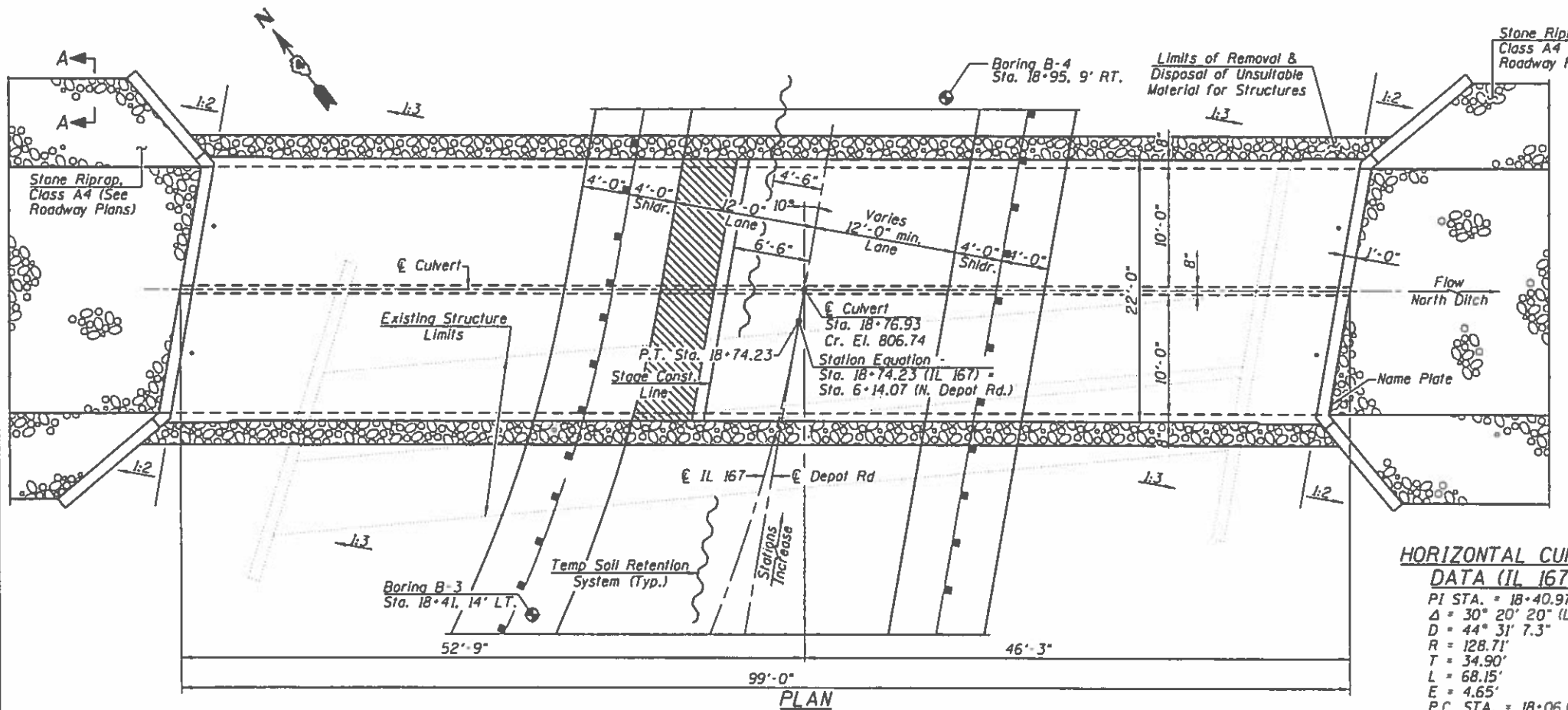
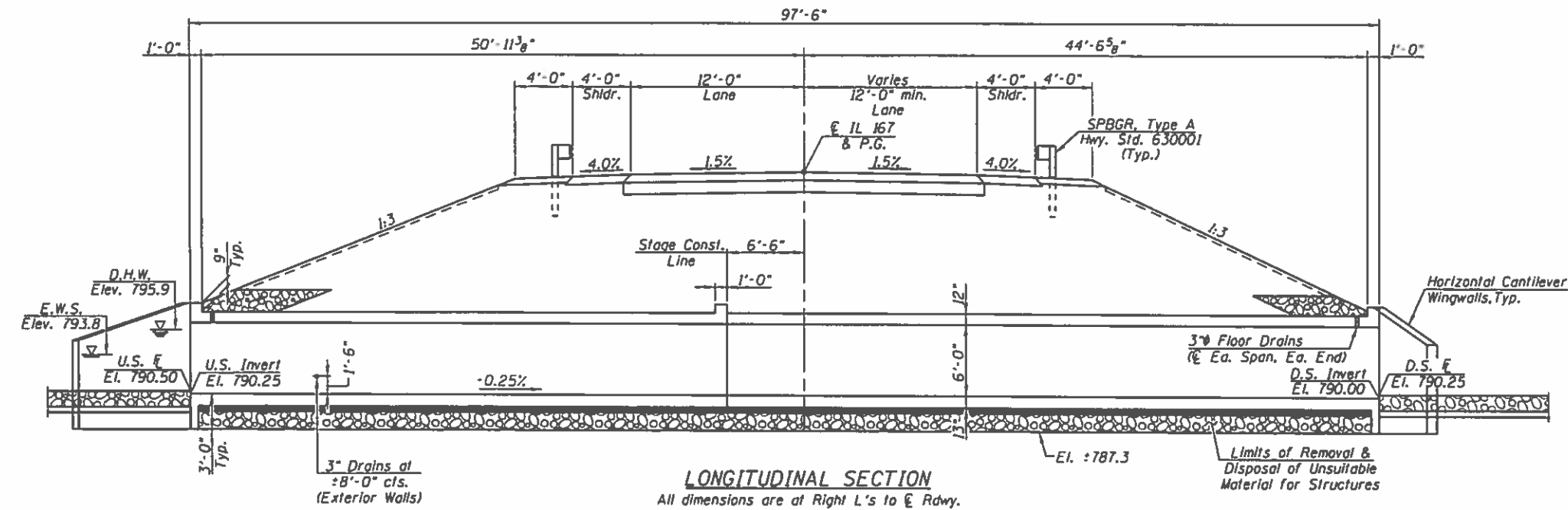
Table with columns for F.A.S. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.

ILLINOIS FED. AID PROJECT

Benchmark: BM#3 - Railroad spike in power pole 2948779, northwesterly side of IL 167 where the road curves from northeast to east on the north side of Wataga, IL.
Station 28+04.60, 67.5' LT., Elev. = 823.29

Existing Structure: Cast in place double barrel box culvert (6'-0" H x 5'-0" W x 68'-6" L) with cast in place wingwalls (SN 048-1004) built in 1928 under Section 101. Traffic to be maintained utilizing Stage Construction.

No Salvage.



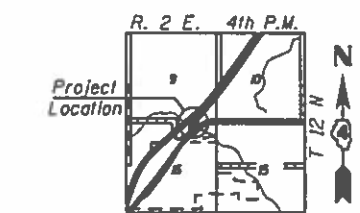
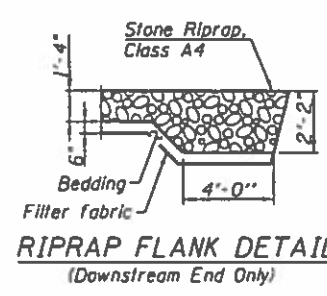
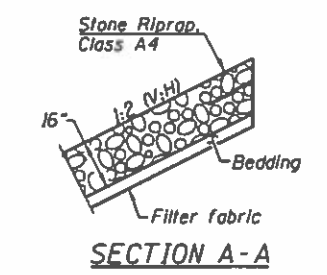
▨ - Indicates Limits of Geotextile Retaining Wall

DESIGNED - KES	REVISIONS
CHECKED - VVR	REVISIONS
DRAWN - JRP	REVISIONS
CHECKED - KES	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL CURVE DATA (IL 167)
 PI STA. = 18+40.97
 Δ = 30° 20' 20" (LT)
 D = 44° 31' 7.3"
 R = 128.71'
 T = 34.90'
 L = 68.15'
 E = 4.65'
 P.C. STA. = 18+06.08
 P.T. STA. = 18+74.23

- INDEX OF SHEETS**
1. General Plan & Elevation
 2. General Data
 3. Staging Construction Details
 4. Temporary Concrete Barrier
 5. Geotextile Retaining Wall Details
 6. Culvert Plan
 - 7-8. Culvert Details
 9. Bar Splicer Assembly Details
 10. Borings



STA. 18+76.93
BUILT 20 BY
STATE OF ILLINOIS
FAS RTE. 379 SEC. 16.101CR
LOADING HL 93
STR. NO. 048-2504

NAME PLATE
(Standard 515001)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Dr. Carl Rupp
ENGINEER OF BRIDGES AND STRUCTURES



M. A. Hennebohn 6/5/19
EXPIRATION: 11/30/2020

GENERAL PLAN & ELEVATION
IL ROUTE 167
OVER NORTH DITCH
F.A.S. ROUTE 379 - SECTION (16.10)1CR
KNOX COUNTY
STA. 18+76.93
STRUCTURE NO. 048-2504

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	16.101CR	KNOX	92	42
			CONTRACT NO. 68C65	



GENERAL PLAN & ELEVATION
STRUCTURE NO. 048-2504
SHEET NO. 1 OF 10 SHEETS

ILLINOIS FED. AID PROJECT

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	1118
Removal of Existing Structures No. 2	Each	1
Removal & Disposal of Unsuitable Material for Structures	Cu. Yd.	149
Reinforcement Bars, Epoxy Coated	Pound	45200
Bar Splicers	Each	106
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	883
Geotextile Retaining Wall	Sq. Ft.	245
Concrete Box Culverts	Cu. Yd.	231.5
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	324
Rock Fill	Ton	423

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	471	50	100	795.5	0.9	0.0	796.4	794.7
Design	50	766	54	108	795.9	3.2	0.0	799.1	795.5
Base	100	904	56	112	796.1	3.8	0.1	799.9	796.2
OVT(E)	200	1020	58	N/A	796.3	4.7	N/A	801.0	N/A
OVT(P)	>500		N/A	120		N/A		N/A	
Max. Calc.	500	1240	60	120	796.5	5.4	1.4	801.9	797.9

Existing Overtopping Elevation 803.5 @ Sta. 20+37
 Proposed Overtopping Elevation 803.5 @ Sta. 20.37
 Drainage Area = 1.27 Sq. Mi.
 10 Year Outlet Velocity from Existing Structure = 9.4 fps
 10 Year Outlet Velocity from Proposed Structure = 4.8 fps

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 At least 6 ft. of the barrel shall be poured monolithically with the wingwalls.
 Precast alternate not allowed.
 The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

LOADING HL 93

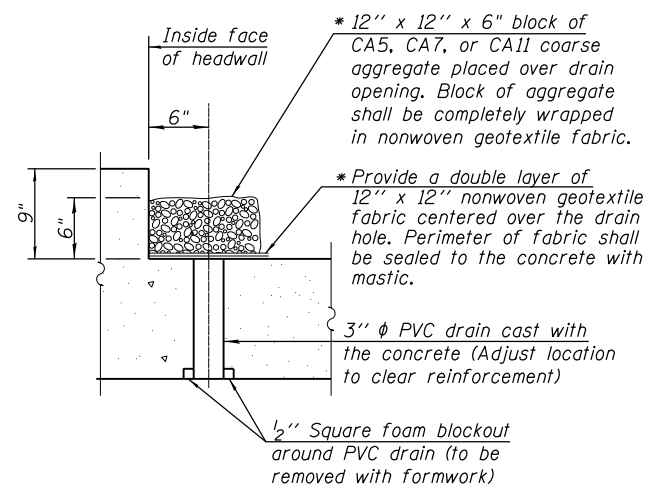
Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.

DESIGN STRESSES

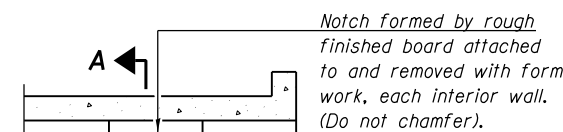
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)



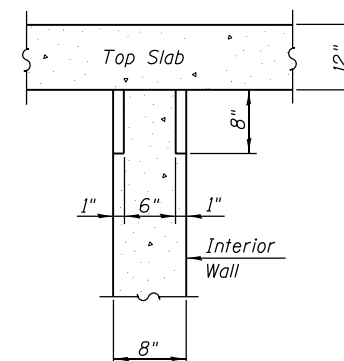
DRAIN DETAIL

(All costs associated with furnishing and constructing the above 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.*



LONGITUDINAL SECTION

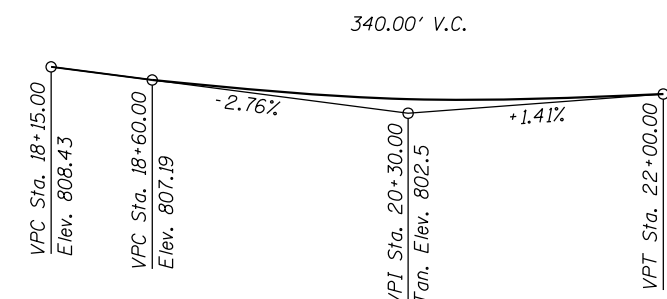


SECTION A-A

PHOEBE NESTING

SITE DETAILS

(Downstream End Only)



PROFILE GRADE

(Along CL IL 167)



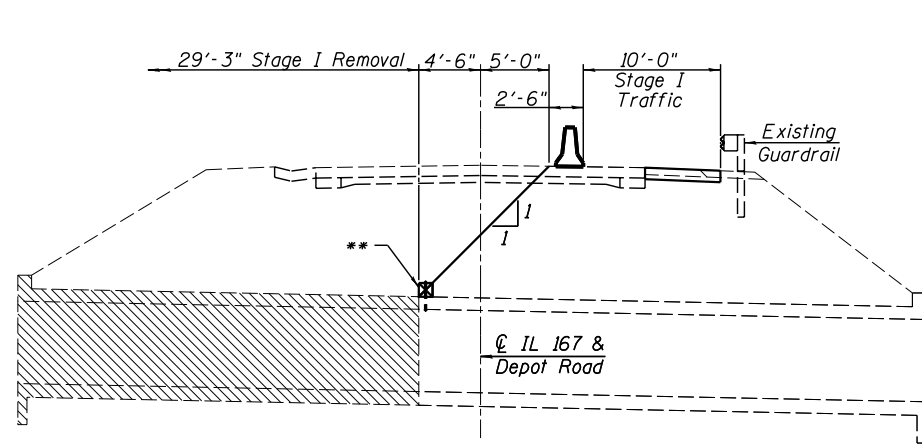
USER NAME =	DESIGNED - KES	REVISED -
	CHECKED - VVR	REVISED -
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - KES	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

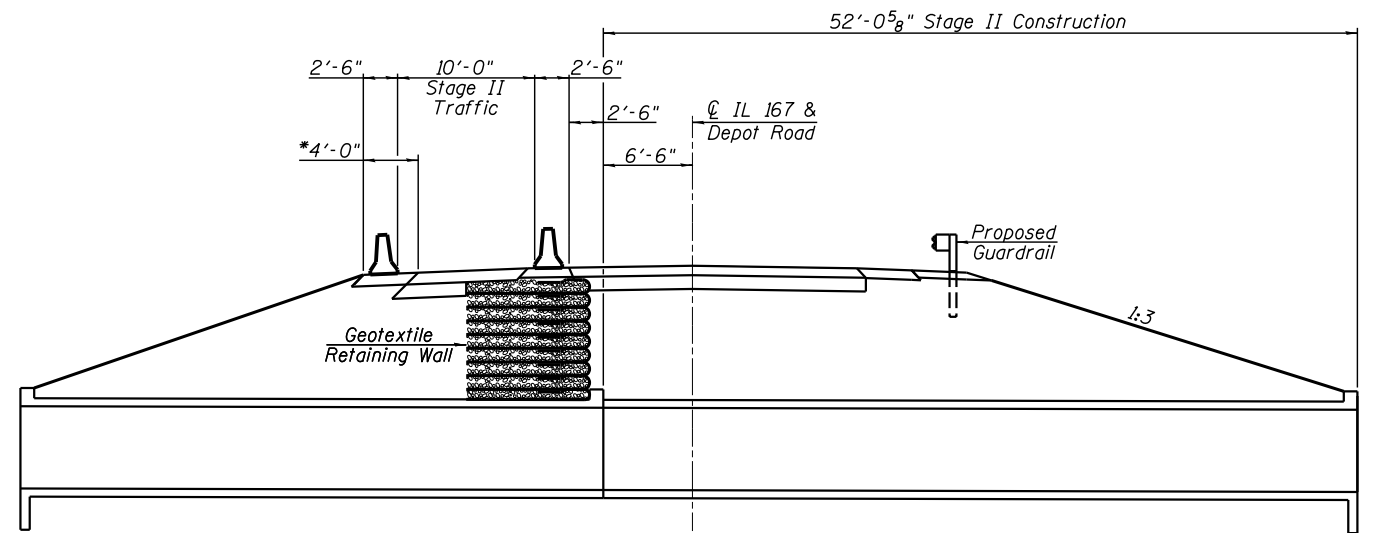
**GENERAL DATA
 STRUCTURE NO. 048-2504**

SHEET NO. 2 OF 10 SHEETS

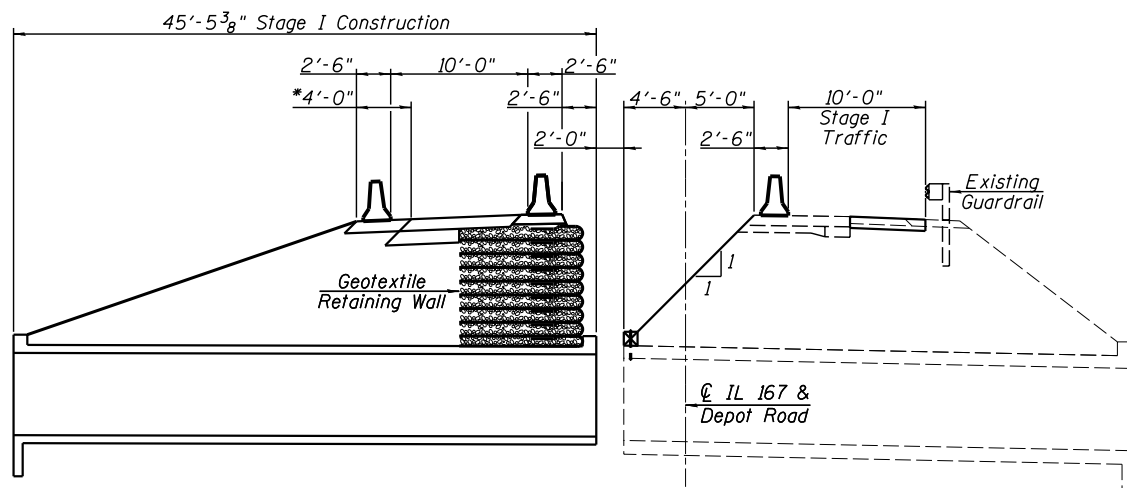
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101)CR	KNOX	92	43
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C65	



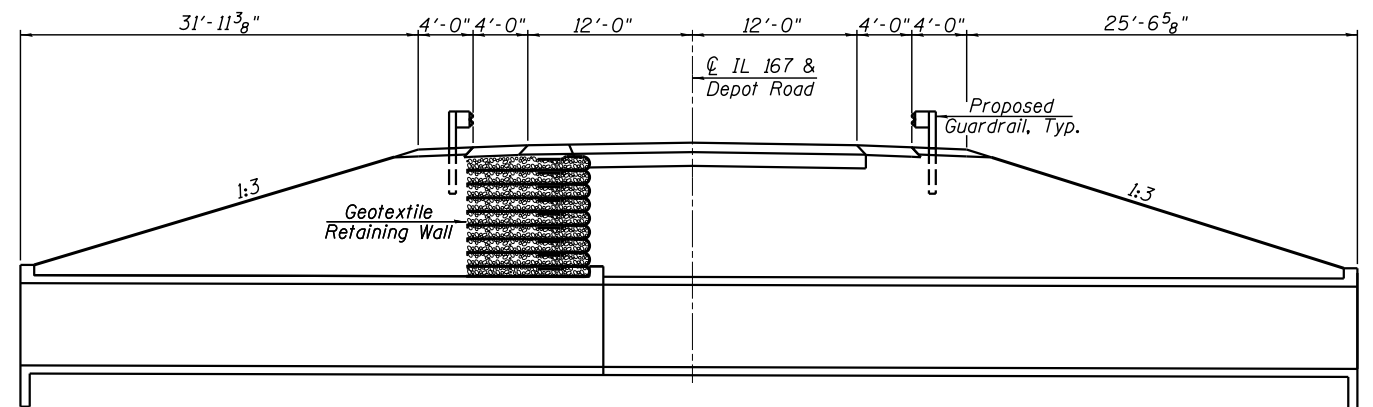
STAGE I REMOVAL
(Dimensions are at Rt. Angles to \bar{C} Rdwy.)



STAGE II CONSTRUCTION
(Dimensions are at Rt. Angles to \bar{C} Rdwy.)



STAGE I CONSTRUCTION
(Dimensions are at Rt. Angles to \bar{C} Rdwy.)

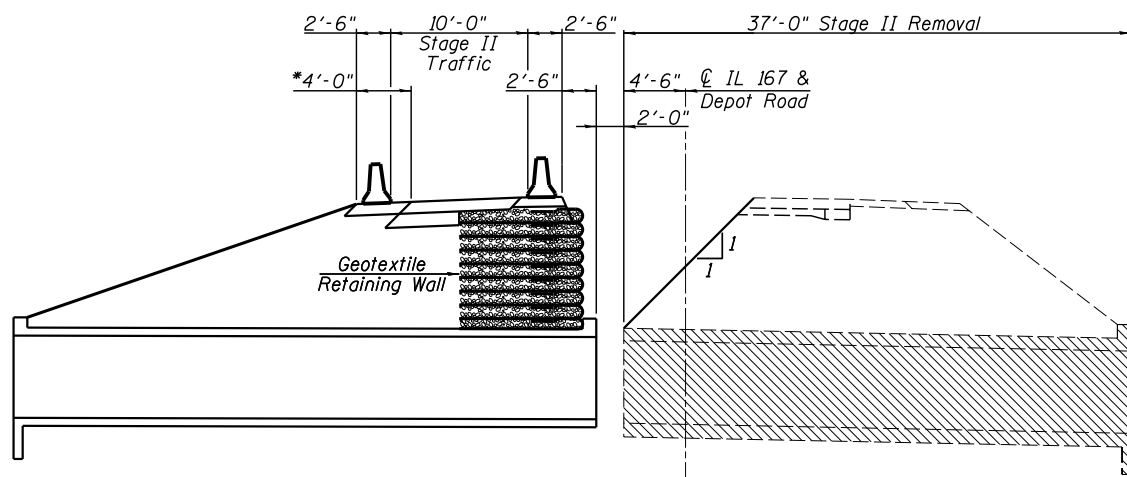


PROPOSED CROSS SECTION
(Dimensions are at Rt. Angles to \bar{C} Rdwy.)

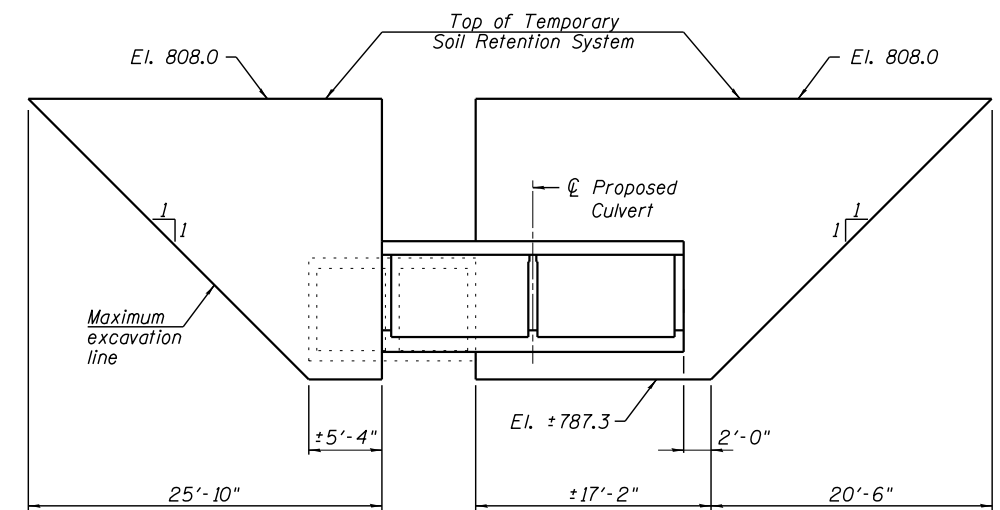
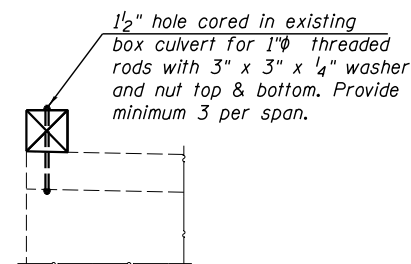
Note: Hatched area indicates removal of existing structure.

* Temporary widening for Stage II Traffic to be removed during Stage III Construction

** Temporary timber blocking as required. Cost included with Temporary Soil Retention System

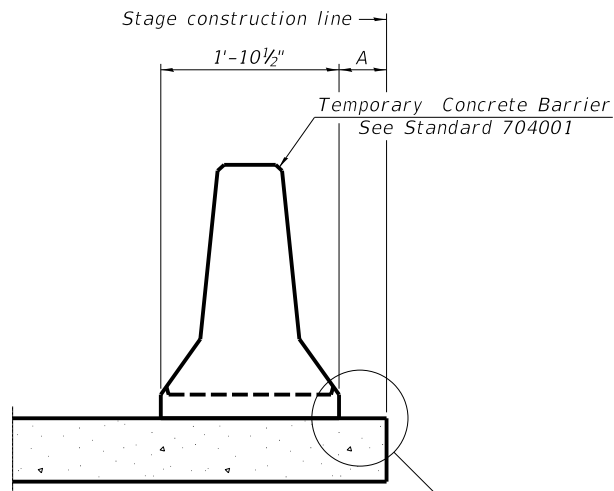


STAGE II REMOVAL
(Dimensions are at Rt. Angles to \bar{C} Rdwy.)



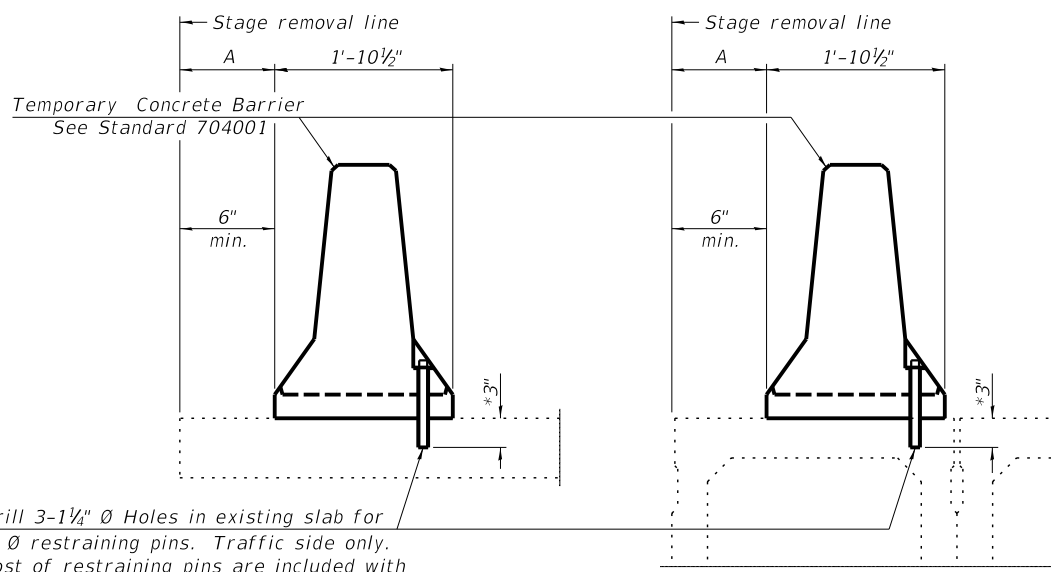
TEMPORARY SOIL RETENTION SYSTEM

(Looking West)
(Dimensions are at Rt. Angles to \bar{C} Culvert)



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

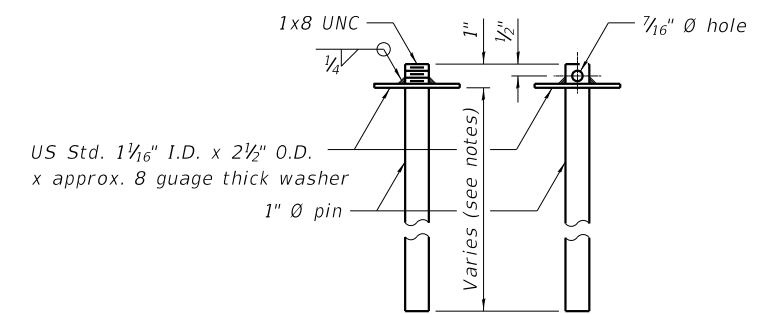


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

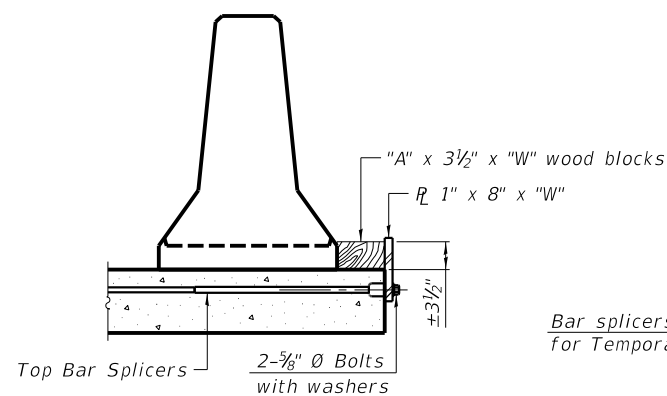
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

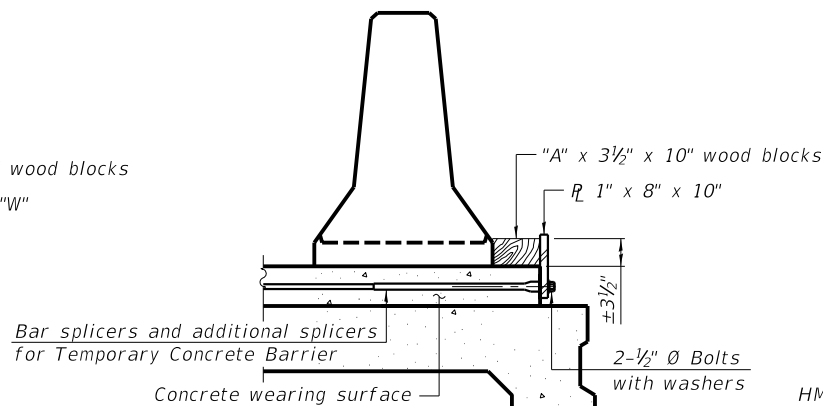


RESTRAINING PIN

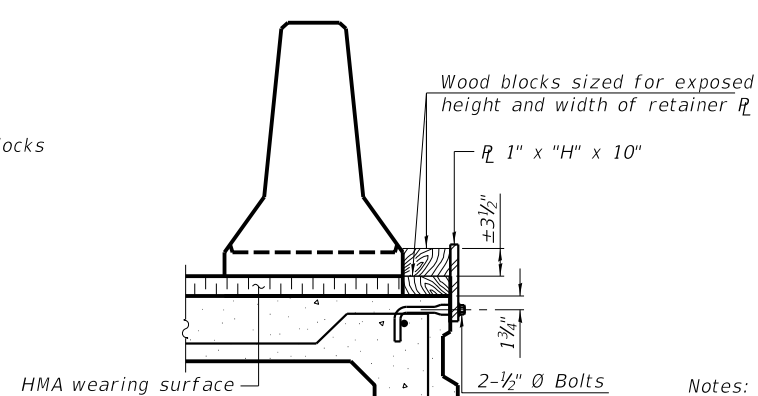
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



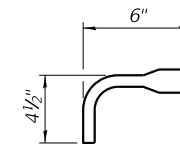
DETAIL I



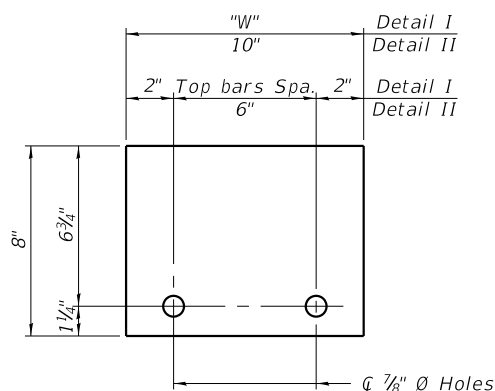
DETAIL II



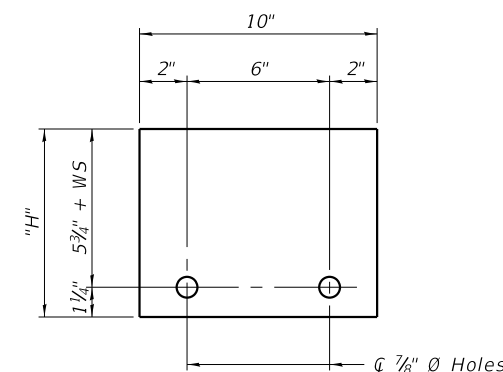
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

8-11-2017



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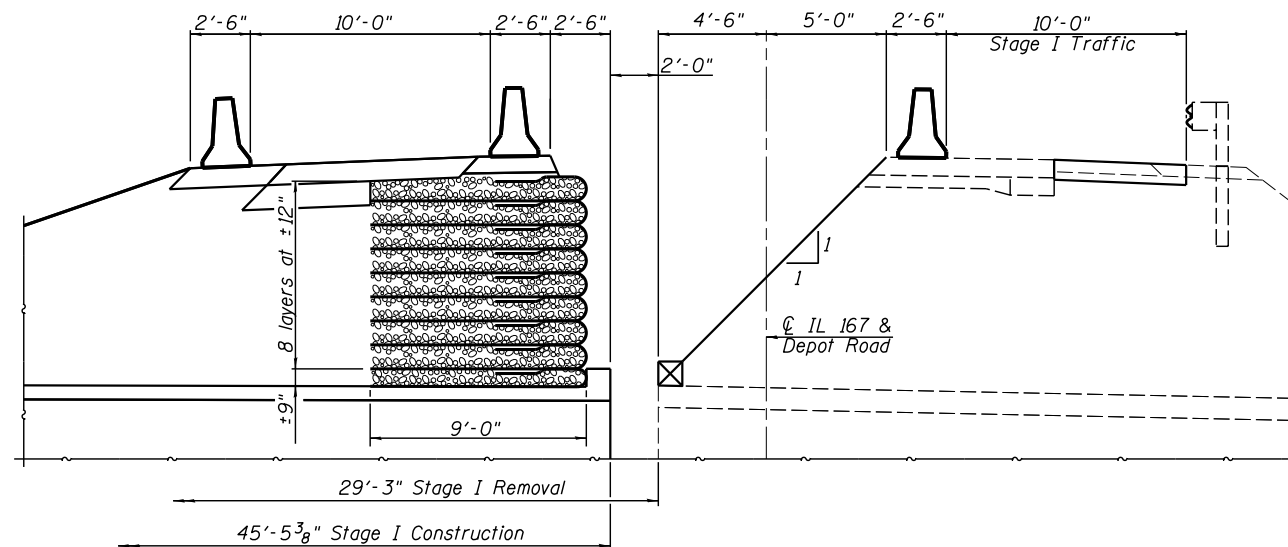
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 048-2504

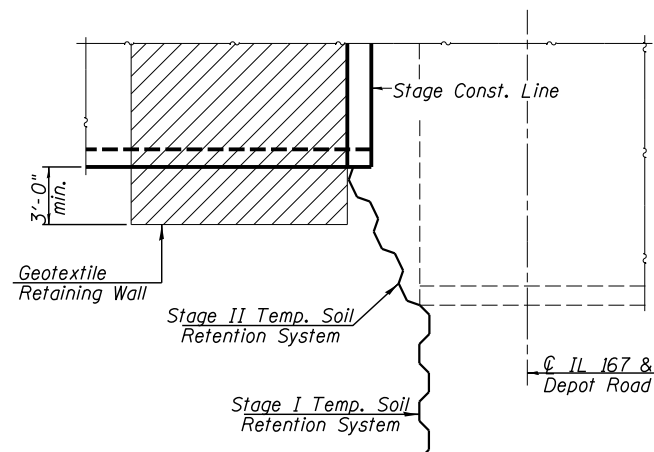
SHEET NO. 4 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,10)CR	KNOX	92	45
CONTRACT NO. 68C65				

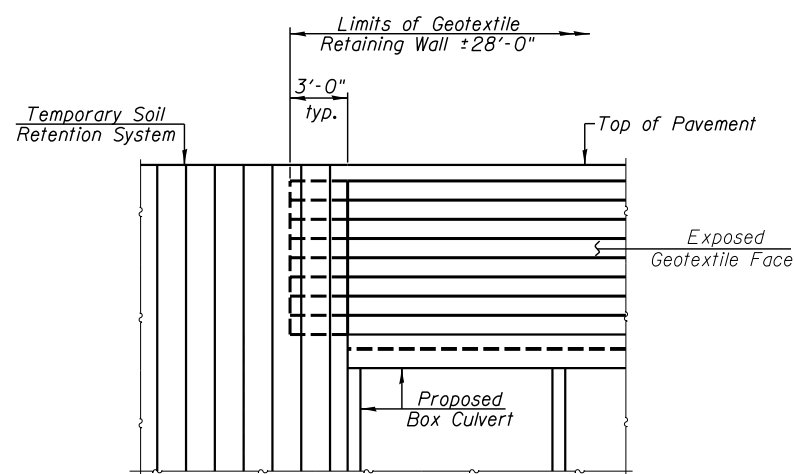
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TYPICAL SECTION

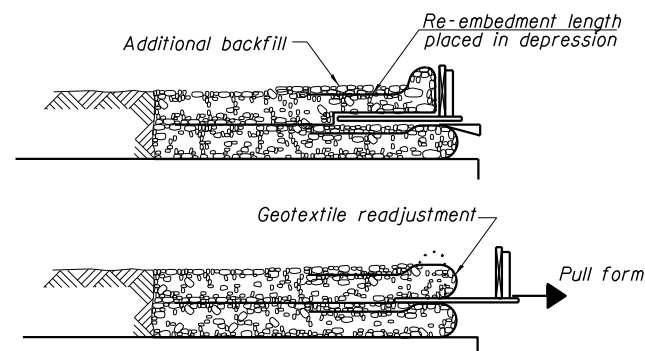
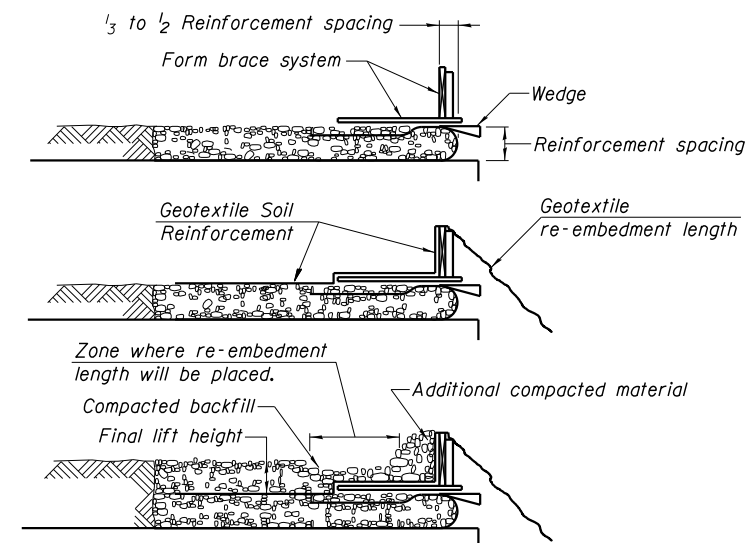


PLAN



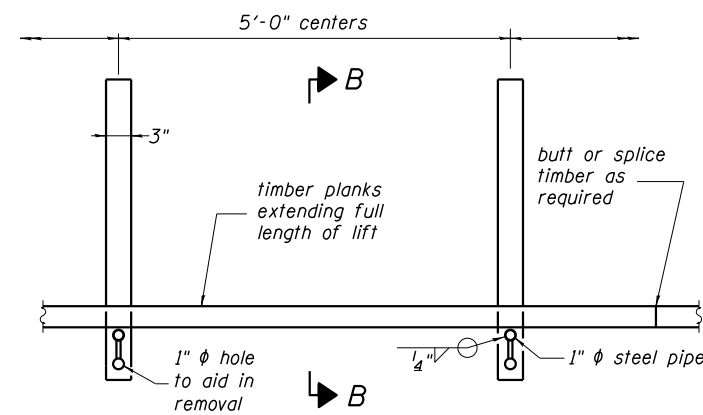
ELEVATION

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 40 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of T min. shall be submitted to the engineer for approval.

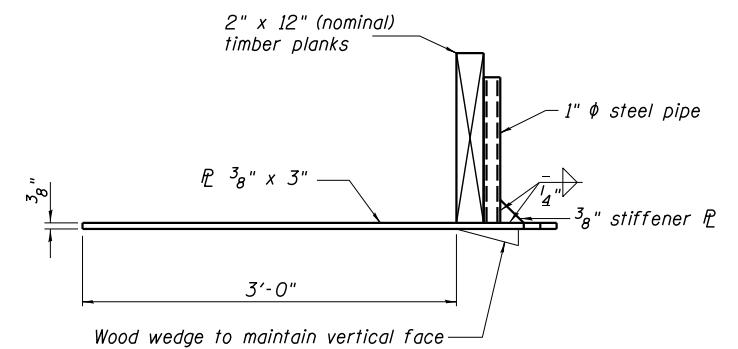


GEOTEXTILE WALL CONSTRUCTION PROCEDURE

1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact backfill material in lifts to final lift height, create ($\pm 3''$) depression in zone where re-embedment length will be located and place additional height of compacted material against form brace.
4. Fold Geotextile re-embedment length back over form brace into zone where depression was made in backfill and place additional compacted backfill, ($\pm 3''$) to embed geotextile and bring to final lift height.
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face and level with plan reinforcement spacing.



PLAN



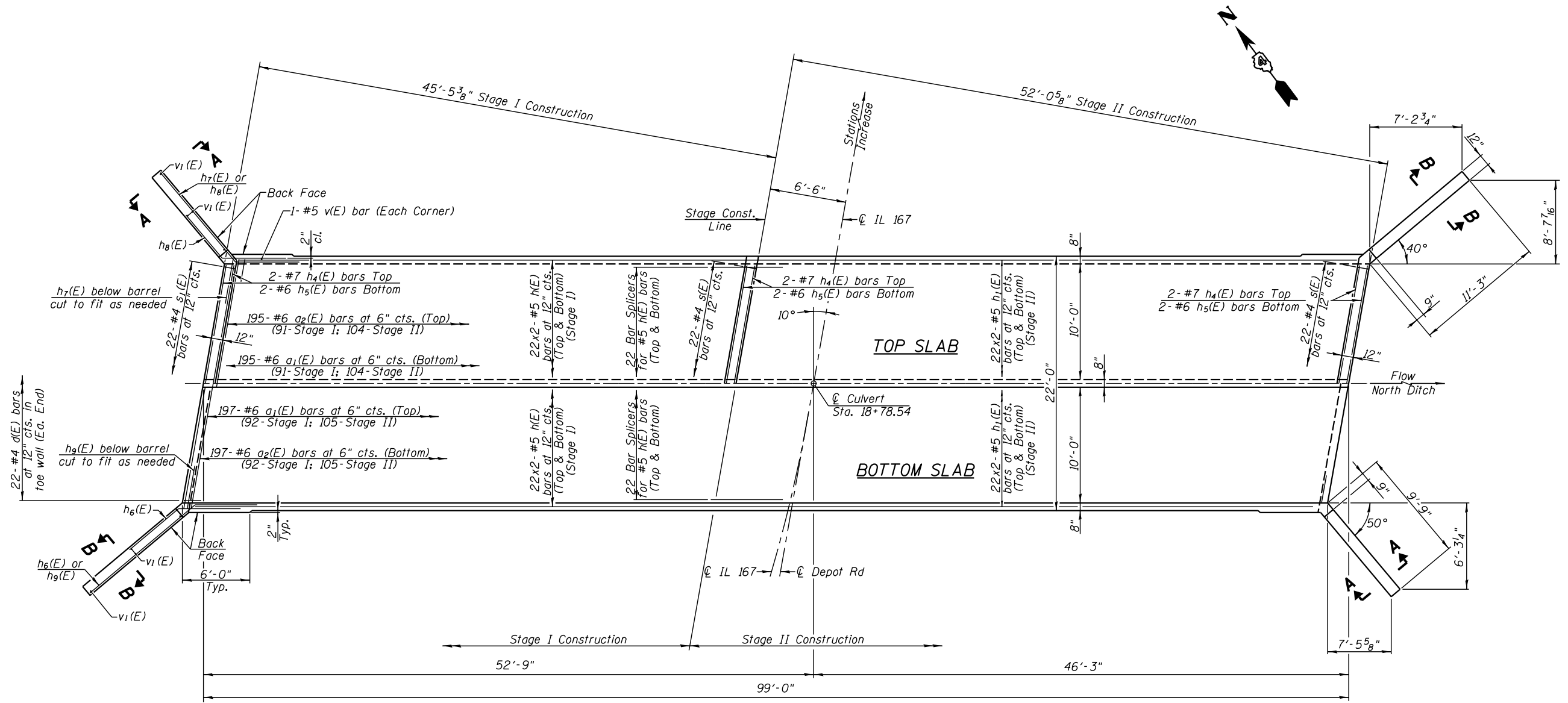
SECTION B-B

GEOTEXTILE TEMPORARY FORM BRACE DETAIL

Note:
The temporary form brace detail is provided as a guide. The contractor is responsible for the design and performance of the form system used.

BILL OF MATERIAL

Item	Unit	Quantity
Geotextile Retaining Wall	Sq. Ft.	245



PLAN

MIN. BAR LAPS
 #4 bars = 2'-7"
 #5 bars = 3'-2"

Notes:
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Bars indicated thus 32x2-#5 etc. indicates 32 lines of bars with 2 lengths per line.
 See Sheet 7 of 10 for Section A-A and Section B-B.



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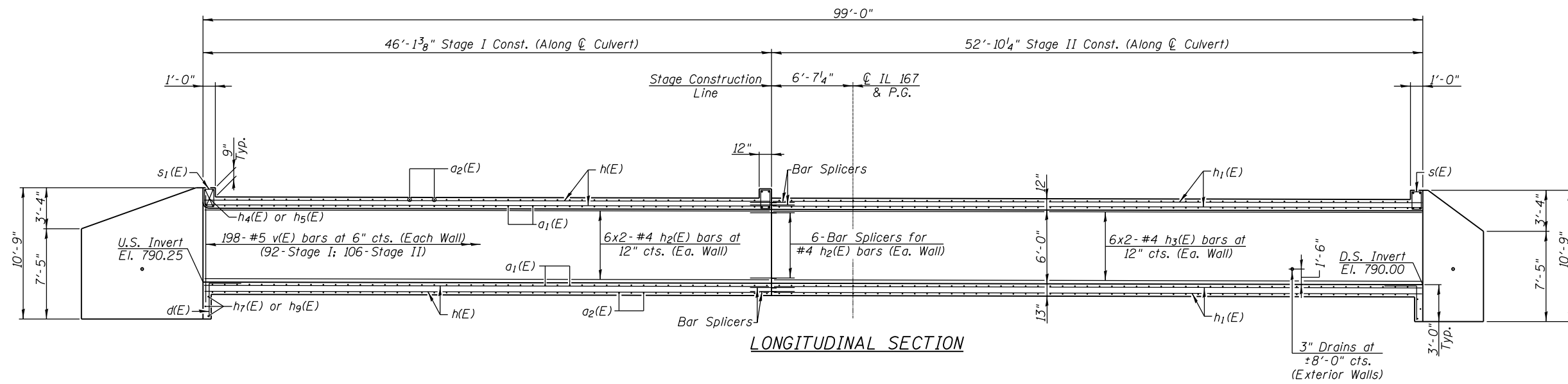
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT PLAN
 STRUCTURE NO. 048-2504

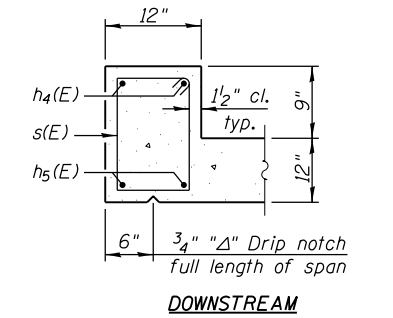
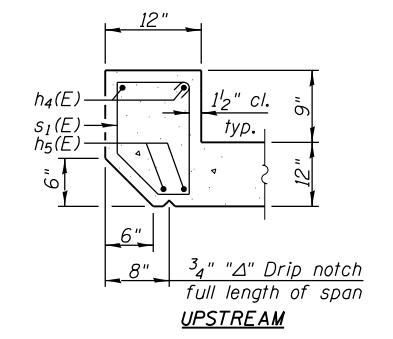
SHEET NO. 6 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68C65				

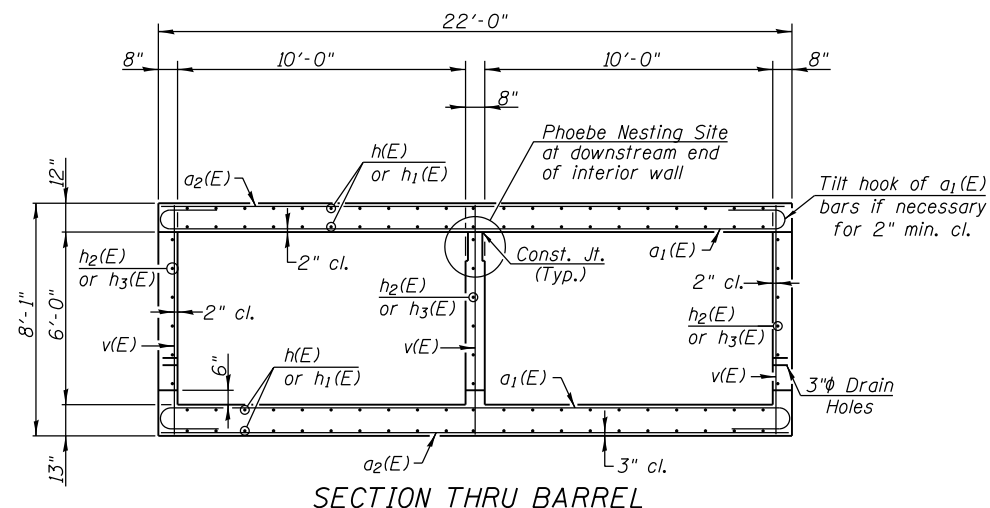
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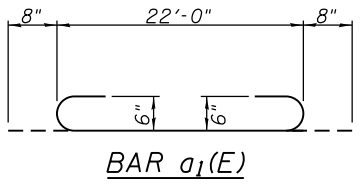
LONGITUDINAL SECTION



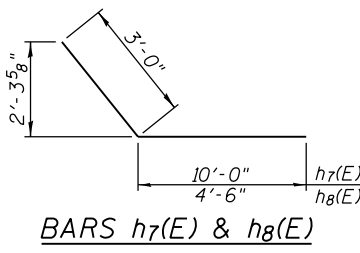
SECTION THRU HEADWALL



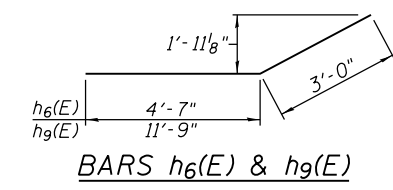
SECTION THRU BARREL



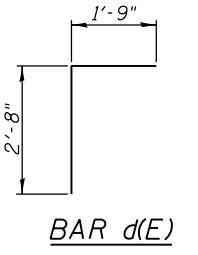
BAR a1(E)



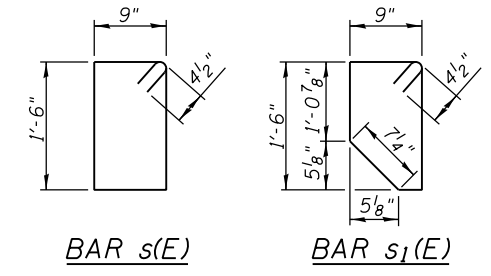
BARS h7(E) & h8(E)



BARS h6(E) & h9(E)

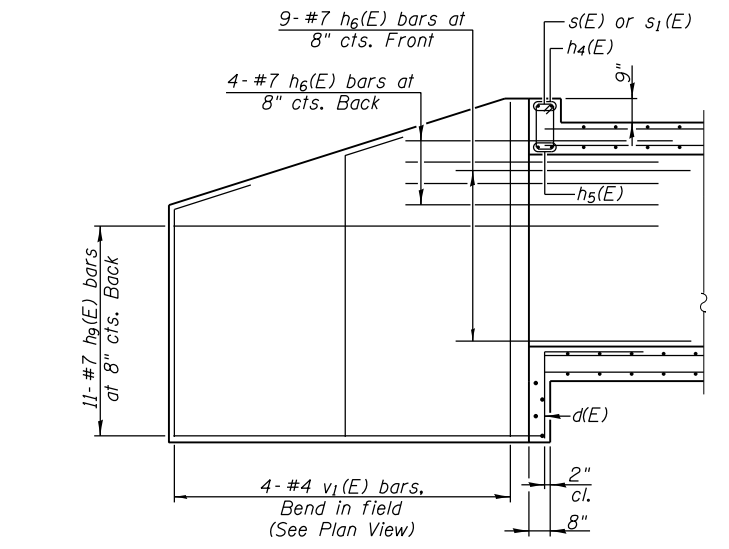


BAR d(E)

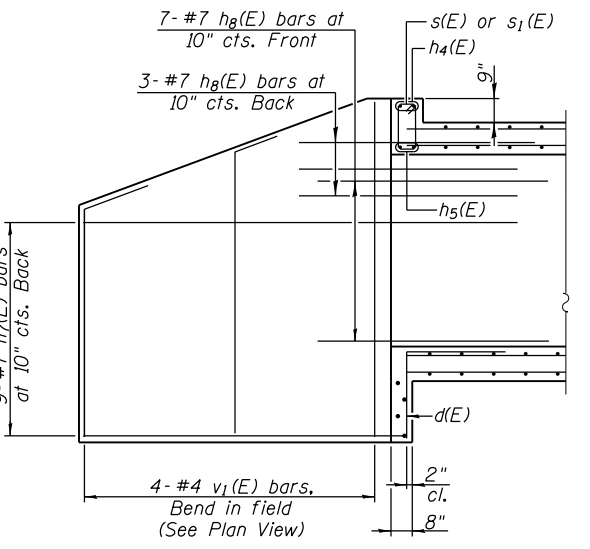


BAR s(E)

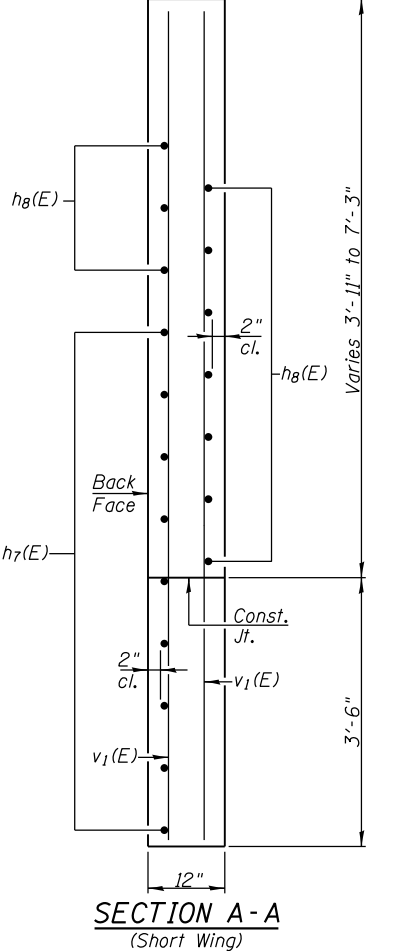
BAR s1(E)



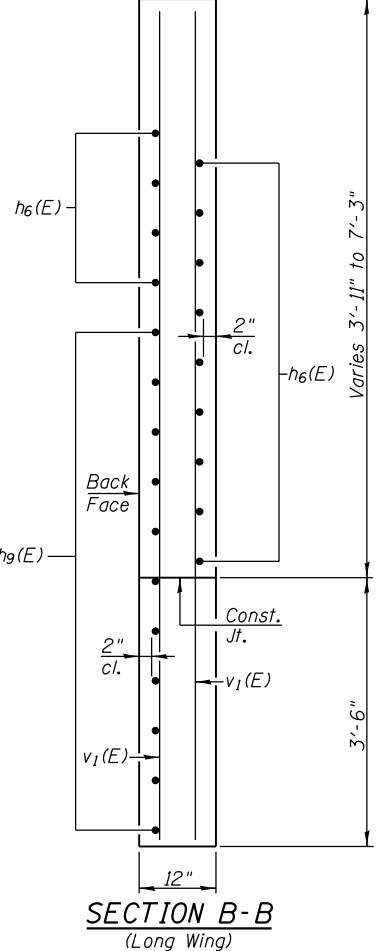
ELEVATION (Long Wing)



ELEVATION (Short Wing)



SECTION A-A (Short Wing)



SECTION B-B (Long Wing)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	392	#6	23'-4"	U
a2(E)	392	#6	22'-0"	U
d(E)	44	#4	4'-5"	L
h(E)	176	#5	24'-7"	—
h1(E)	176	#5	27'-11"	—
h2(E)	36	#4	24'-5"	—
h3(E)	36	#4	27'-8"	—
h4(E)	6	#7	22'-0"	—
h5(E)	6	#6	22'-0"	—
h6(E)	26	#7	7'-7"	—
h7(E)	18	#7	13'-0"	—
h8(E)	20	#7	7'-6"	—
h9(E)	22	#7	14'-9"	—
s(E)	44	#4	5'-3"	□
s1(E)	22	#4	5'-0"	□
v(E)	598	#5	7'-9"	—
v1(E)	16	#4	10'-5"	—
Concrete Box Culverts		Cu. Yd.	231.5	
Reinforcement Bars,		Pound	45,200	
Epoxy Coated				



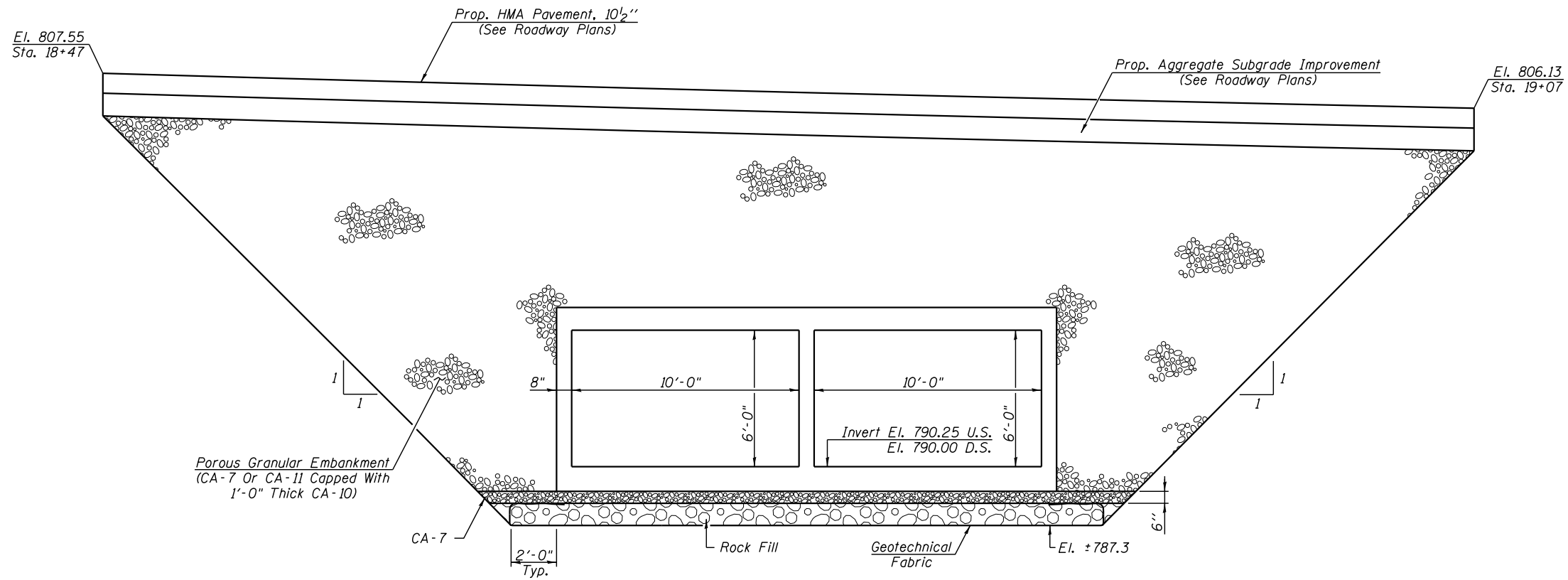
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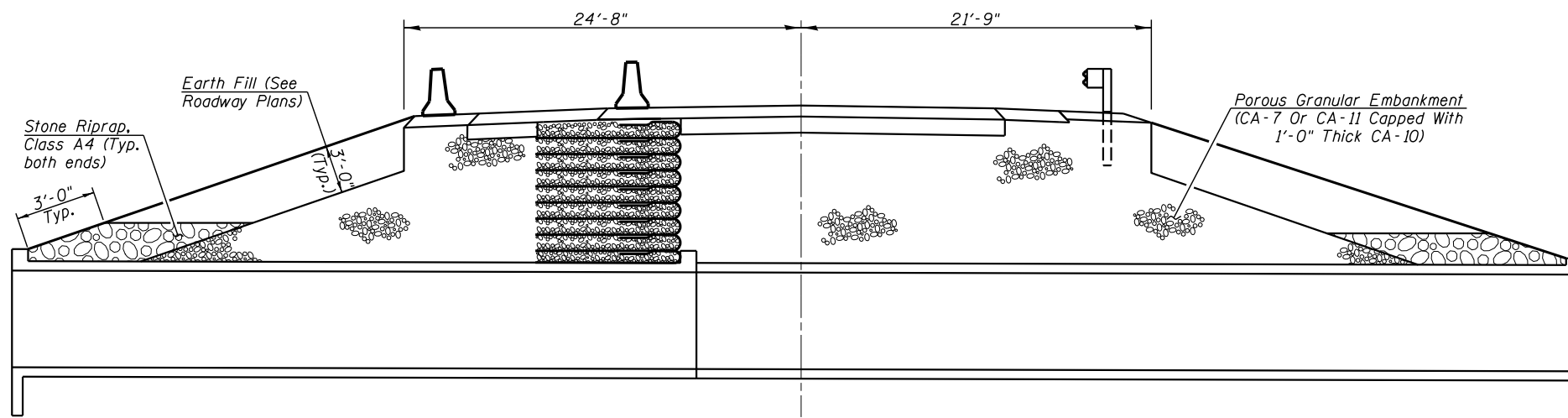
CULVERT DETAILS
STRUCTURE NO. 048-2504

SHEET NO. 7 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,10)ICR	KNOX	92	48
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



SECTION THRU CULVERT
(Looking Northwest)



ELEVATION



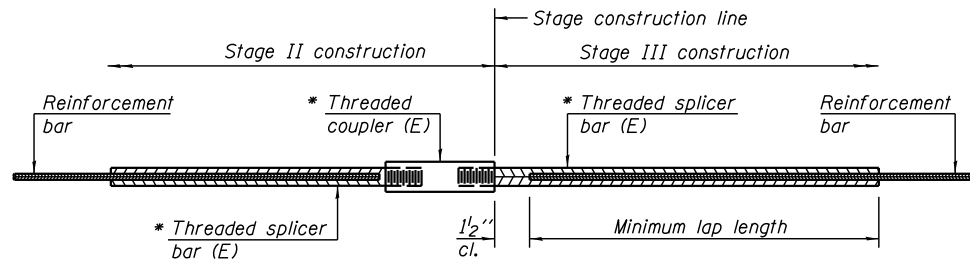
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PLOT DATE =	CHECKED -	REVISED - KES

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**CULVERT DETAILS
STRUCTURE NO. 048-2504**

SHEET NO. 8 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101)CR	KNOX	92	49
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

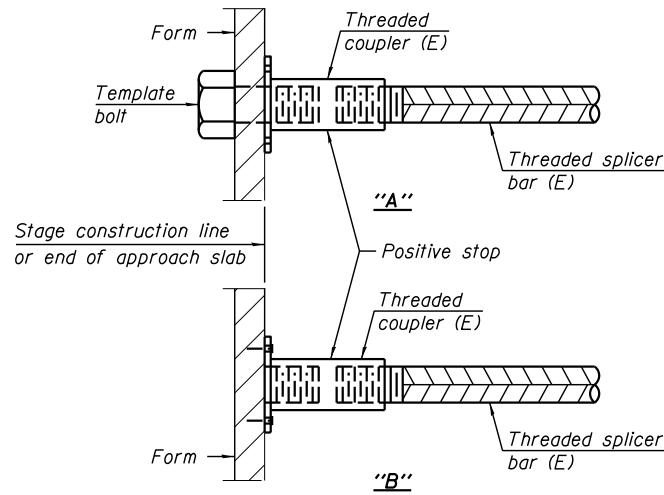


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#5	44	3'-2"
Bottom Slab	#5	44	3'-2"
Interior Wall	#4	6	2'-5"
Exterior Walls	#4	12	2'-5"

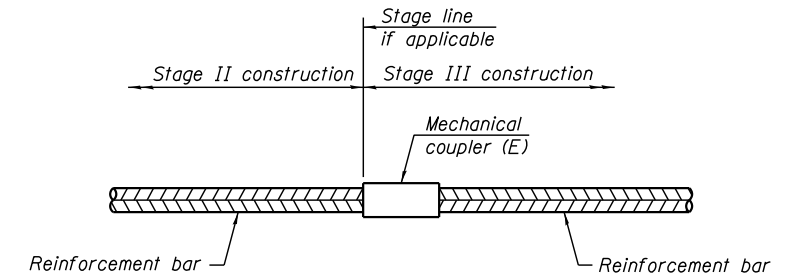


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

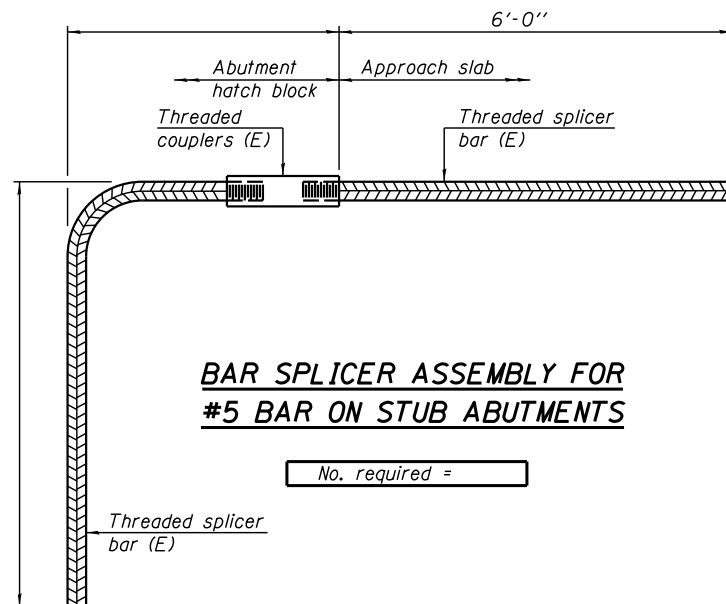
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017



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BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 048-2504

SHEET NO. 9 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101)CR	KNOX	92	50
CONTRACT NO. 68C65			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

Date 6/28/17

ROUTE FAS 379 (IL 167) DESCRIPTION Structure Boring for Culvert Replacement LOGGED BY JLO/JW

SECTION (6, 101) CR LOCATION West end of east culvert, SEC. 16, TWP. 12 N, RNG. 2 E, 4th PM, Latitude 41d 01' 57.6" N, Longitude 90d 16' 22.2" W

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 048-1004 EX
Station 048-2504 PR
BORING NO. B-3
Station 18+41
Offset 14.0 ft LT
Ground Surface Elev. 807.18 ft

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	SOIL DESCRIPTION
806.18	HMA and PCC PAVEMENT	786.18	Gray, Wet, Loose SAND (continued)	785.68	Gray, Moist, Stiff SILTY CLAY TILL	783.38	Black, Moist, Hard COAL
3		6	1.81B	15	B	50@4'	18
4		2.1		2.8	P		
5		B					
798.68	FILL: Light Brown/Light Gray, Moist, Stiff to Very Stiff SILTY CLAY	797.35	Light Brown, Moist, Medium Stiff to Stiff SILTY CLAY	789.85	Dark Gray, Moist to Wet, Loose SILTY SAND and GRAVEL with sand seams	787.35	Gray, Wet, Dense SAND and GRAVEL
2		2	0.9	2		6	
3		4	B	3		29	
5		4	B	6		14	
796.18	FILL: Black/Green, Moist, Medium Stiff SILTY CLAY with brick fragments	789.85	Becomes Dark Gray/Black	787.35	Gray, Wet, Dense SAND and GRAVEL		
1		3	1.8				
4		5	B				
3		6	B				
793.68	Black, Moist, Medium Stiff SILTY CLAY (Topsoil)	789.85	Becomes Light Brown/Light Gray	787.35	Gray, Wet, Dense SAND and GRAVEL		
3		3	1.8				
4		5	B				
16		6	B				
788.68	Gray, Wet, Loose SAND	789.85	Dark Gray, Moist to Wet, Loose SILTY SAND and GRAVEL with sand seams	787.35	Gray, Wet, Dense SAND and GRAVEL		
3		2					
4		3					
4		6					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 6/28/17

ROUTE FAS 379 (IL 167) DESCRIPTION Structure Boring for Culvert Replacement LOGGED BY JLO/JW

SECTION (6, 101) CR LOCATION East end of east culvert, SEC. 16, TWP. 12 N, RNG. 2 E, 4th PM, Latitude 41d 01' 57.7" N, Longitude 90d 16' 21.4" W

COUNTY Knox DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 048-1004 EX
Station 048-2504 PR
BORING NO. B-4
Station 18+95
Offset 9.0 ft RT
Ground Surface Elev. 805.85 ft

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	SOIL DESCRIPTION
804.85	HMA and PCC PAVEMENT	784.85	Gray, Wet, Dense SAND and GRAVEL (continued)	784.35	Gray, Wet, Very Stiff CLAY with sand (Till)	782.05	with dolomite
3		3	7	7		50@4'	
5		5	B	42			
797.35	Light Brown, Moist, Medium Stiff to Stiff SILTY CLAY	789.85	Becomes Dark Gray/Black	787.35	Gray, Wet, Dense SAND and GRAVEL		
2		3	0.9				
4		4	B				
10		6	B				
789.85	Dark Gray, Moist to Wet, Loose SILTY SAND and GRAVEL with sand seams	787.35	Gray, Wet, Dense SAND and GRAVEL				
2		6					
3		29					
6		14					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



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PLOT DATE =	CHECKED -	REVISED -

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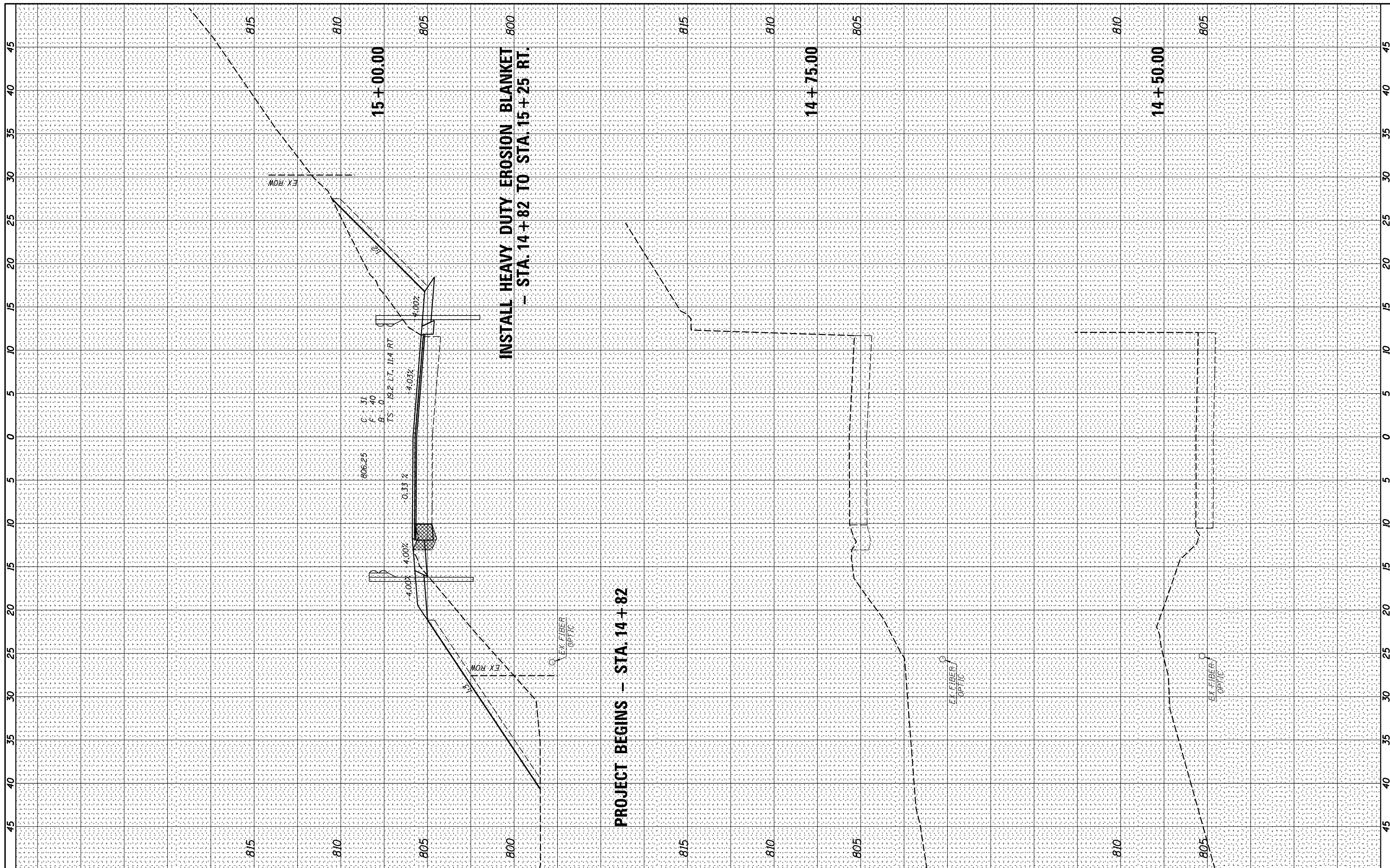
BORINGS
STRUCTURE NO. 048-2504

SHEET NO. 10 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101)CR	KNOX	92	51
CONTRACT NO. 68C65			ILLINOIS FED. AID PROJECT	

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

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



USER NAME = *USER*	DESIGNED -	REVISER -
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PLOT DATE = *DATE*	CHECKED -	REVISER -
	DATE -	REVISER -

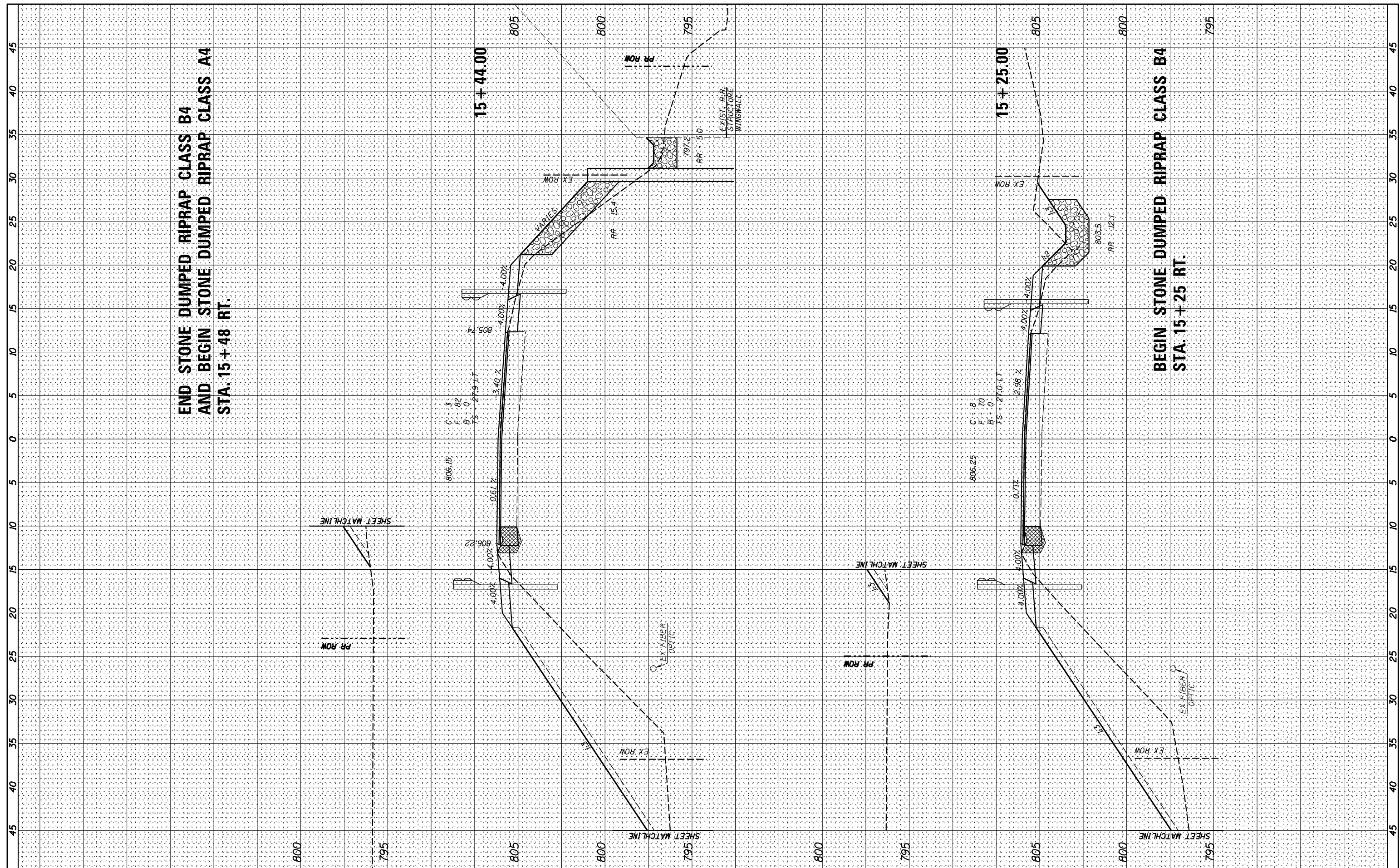
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL 167 (FINAL)
SCALE: SHEET 1 OF 16 SHEETS STA. 14+50.00 TO STA. 15+00.00

F.A.S. RTE. 379	SECTION (6,101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 52
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

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

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



**END STONE DUMPED RIPRAP CLASS B4
AND BEGIN STONE DUMPED RIPRAP CLASS A4
STA. 15+48 RT.**

**BEGIN STONE DUMPED RIPRAP CLASS B4
STA. 15+25 RT.**



USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED	-	REVISOR	-
DRAWN	-	REVISION	-
CHECKED	-	REVISION	-
DATE	-	REVISION	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

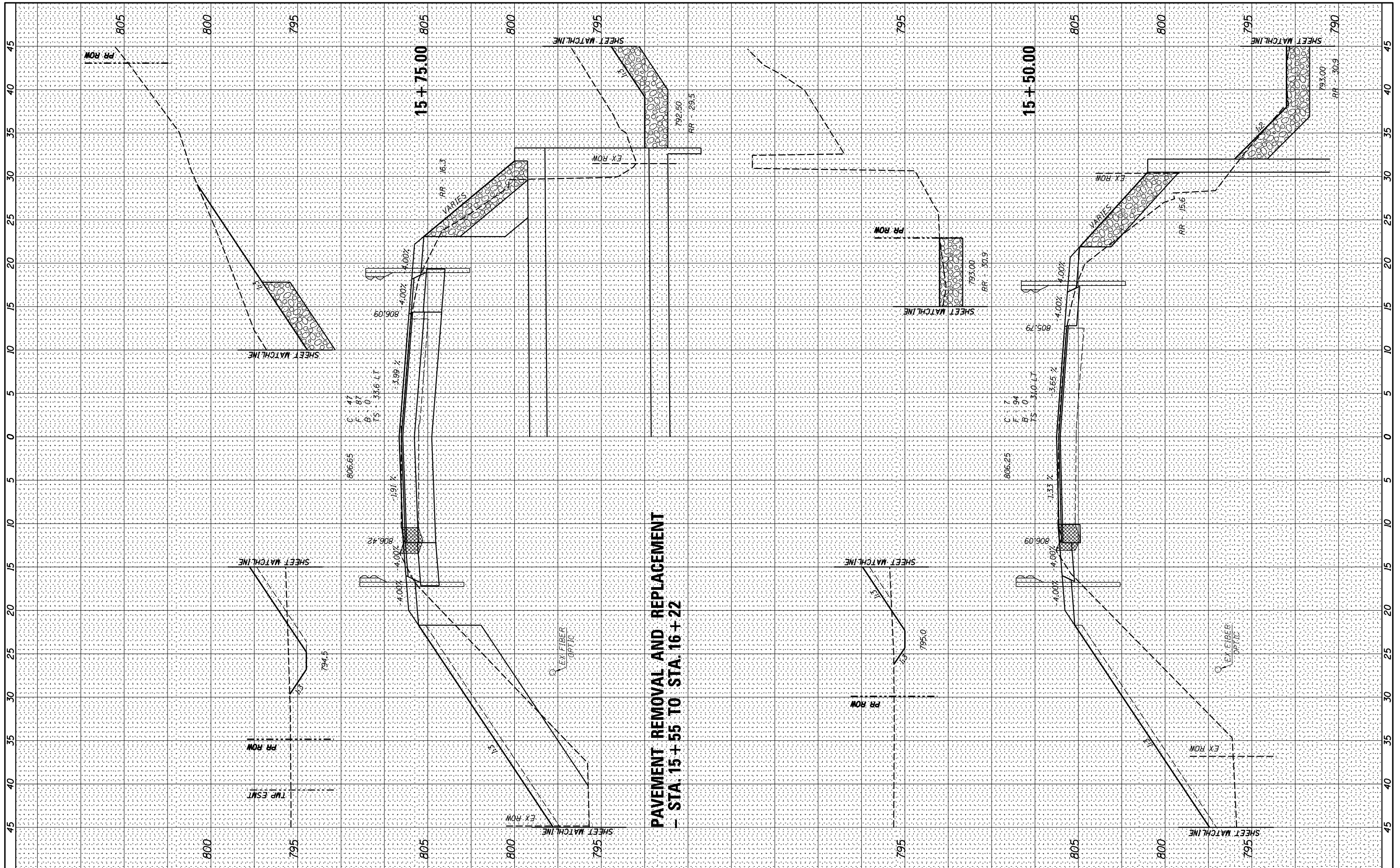
CROSS SECTIONS - IL 167 (FINAL)

SCALE: _____ SHEET 2 OF 16 SHEETS STA. 15+25.00 TO STA. 15+44.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101) CR	KNOX	92	53
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

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

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



**PAVEMENT REMOVAL AND REPLACEMENT
- STA. 15+55 TO STA. 16+22**

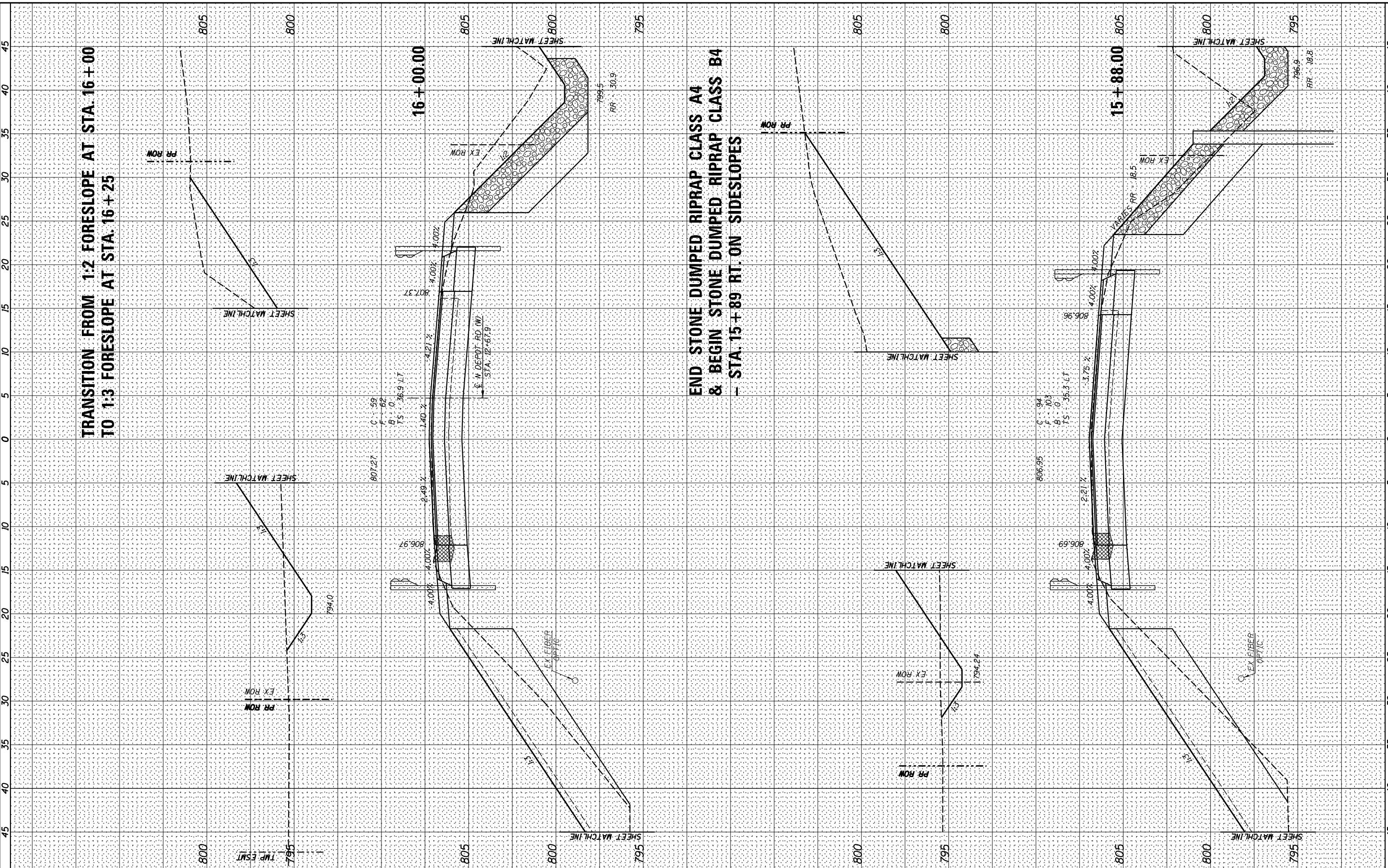


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PLOT SCALE = *SCALE*	DRAWN -	REVISED -
PLOT DATE = *DATE*	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IL 167 (FINAL)
SCALE: _____ SHEET 3 OF 16 SHEETS STA. 15+50.00 TO STA. 15+75.00

F.A.S. RTE. 379	SECTION (6,101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 54
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				



TRANSITION FROM 1:2 FORESLOPE AT STA. 16 + 00
TO 1:3 FORESLOPE AT STA. 16 + 25

END STONE DUMPED RIPRAP CLASS A4
& BEGIN STONE DUMPED RIPRAP CLASS B4
- STA. 15 + 89 RT. ON SIDESLOPES

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	

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

USER NAME = *USER*
PLOT SCALE = *SCALE*
PLOT DATE = *DATE*

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: _____	SHEET 4	OF 16	SHEETS	STA. 15+88.00	TO STA. 16+00.00
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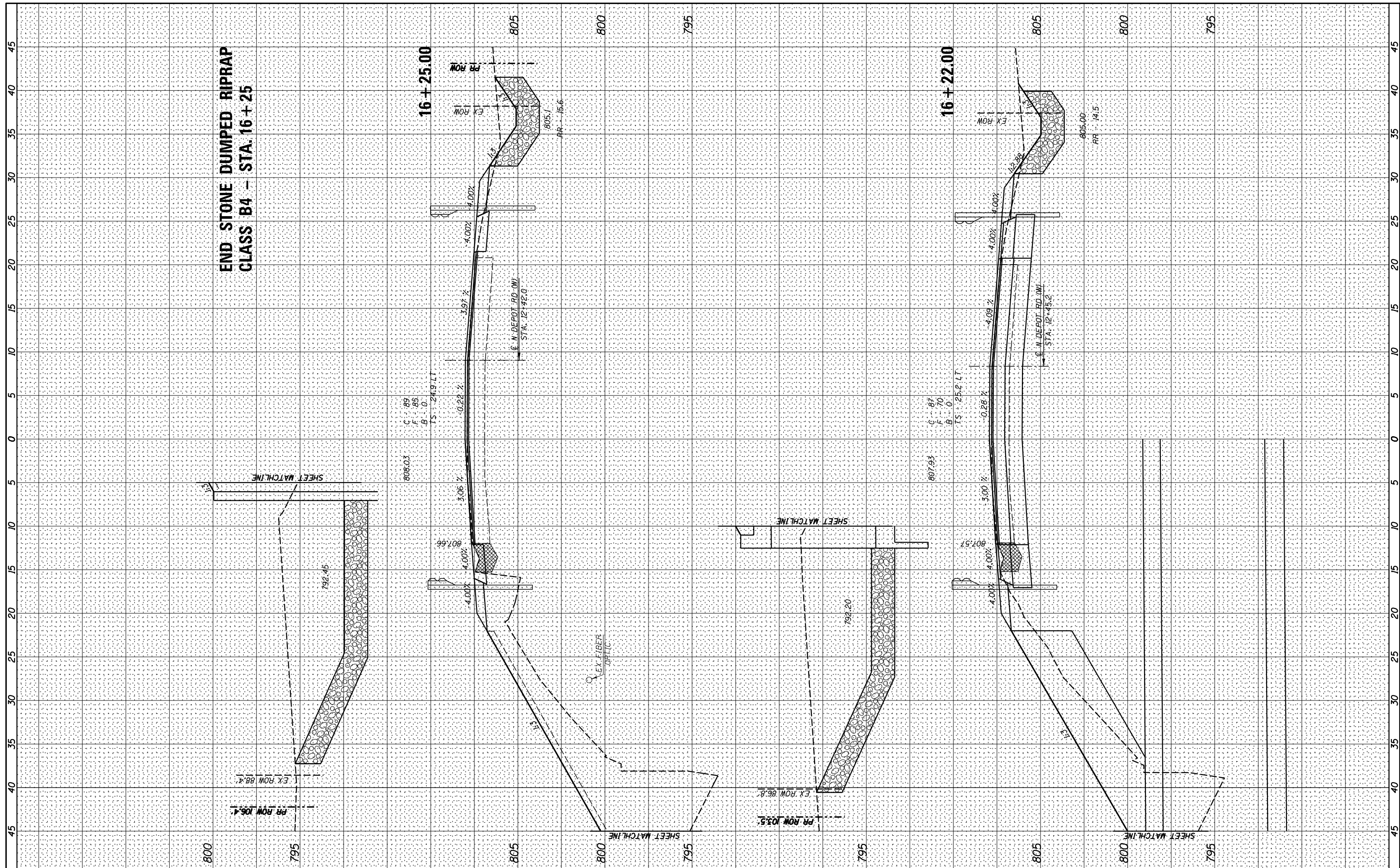
CROSS SECTIONS - IL 167 (FINAL)

F.A.S. RTE. 379	SECTION (6.101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 55
CONTRACT NO. 68C65				ILLINOIS FED. AID PROJECT

BY	DATE

BY	DATE

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



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 IL Design Firm No. 184-001939

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

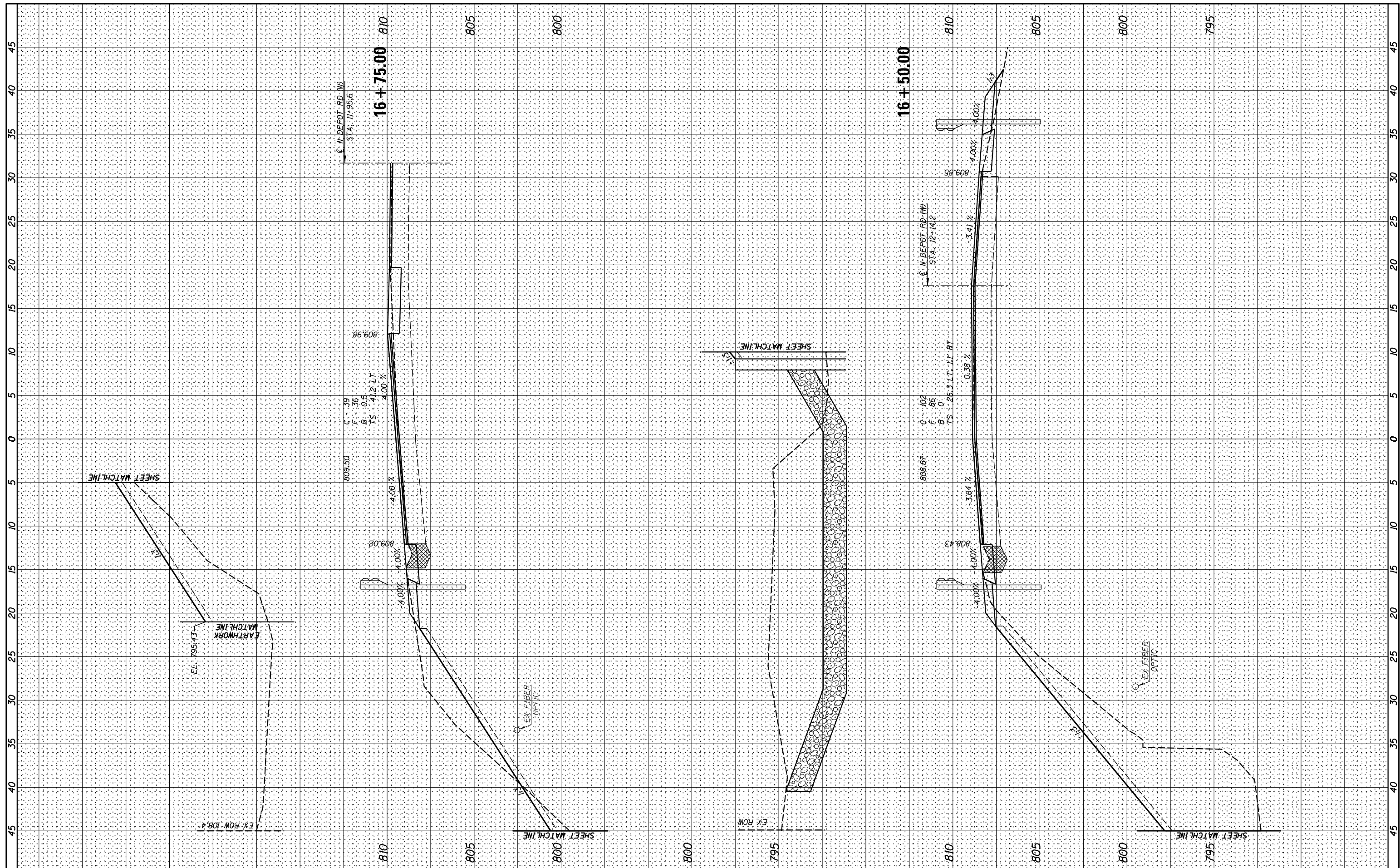
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL 167 (FINAL)
 SCALE: _____ SHEET 5 OF 16 SHEETS STA. 16+22.00 TO STA. 16+25.00

F.A.S. RTE. 379	SECTION (6,101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 56
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

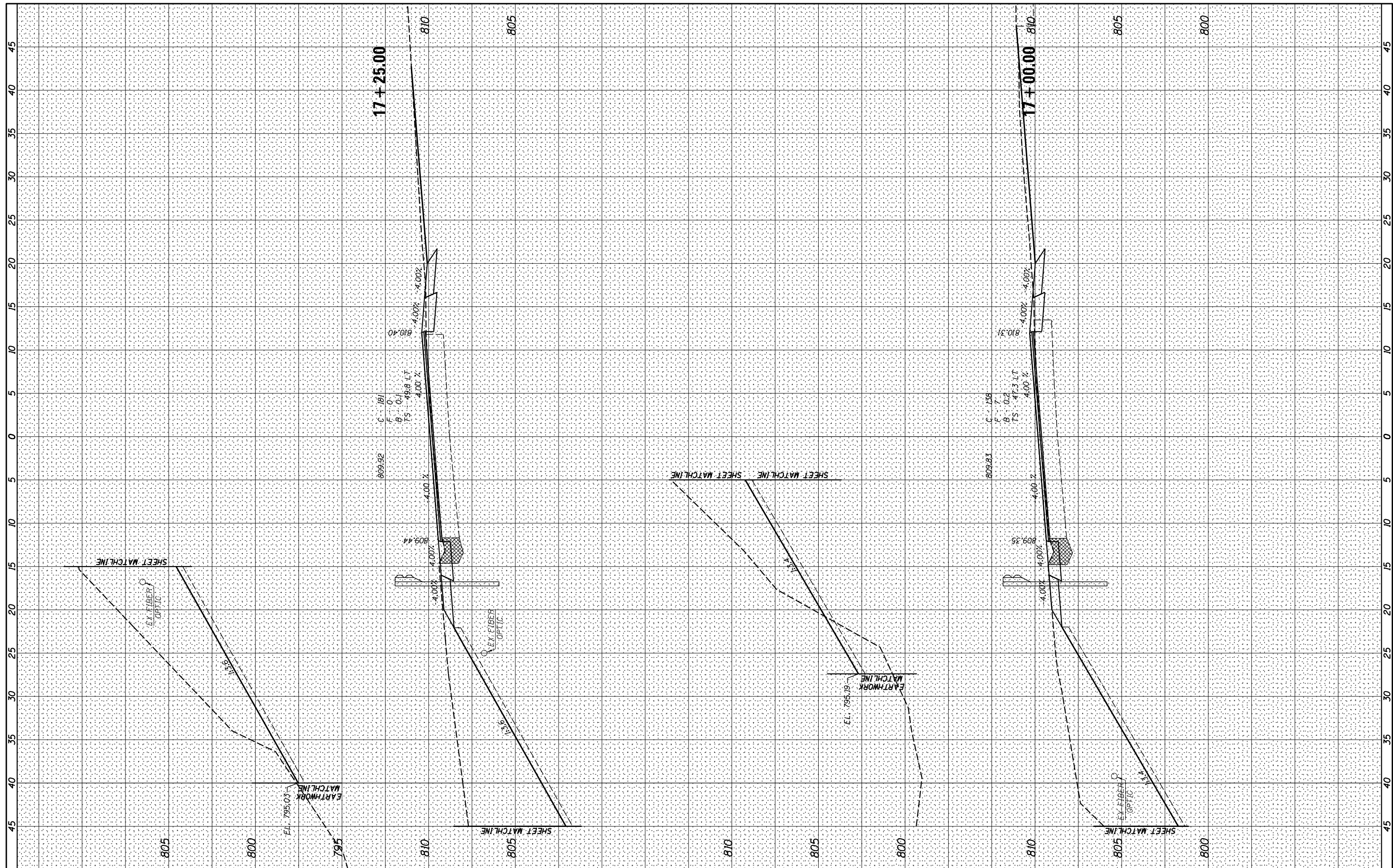
CROSS SECTIONS - IL 167 (FINAL)

SCALE: _____ SHEET 6 OF 16 SHEETS STA. 16+50.00 TO STA. 16+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101) CR	KNOX	92	57
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

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

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



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

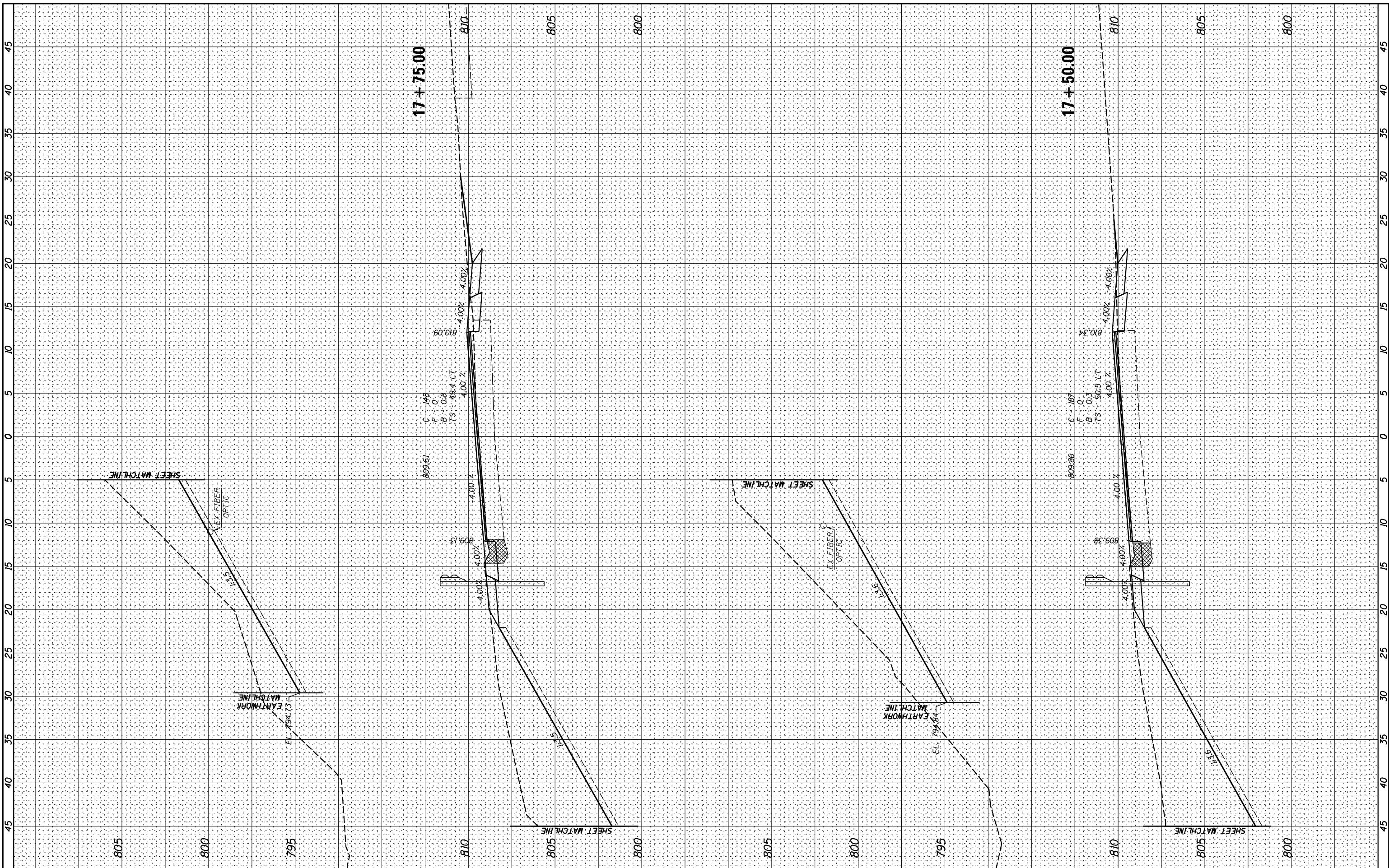
CROSS SECTIONS - IL 167 (FINAL)

SCALE: _____ SHEET 7 OF 16 SHEETS STA. 17+00.00 TO STA. 17+25.00

F.A.S. RTE. 379	SECTION (6,101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 58
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED





 Springfield, IL Phone: (217)544-8033

 IL Design Firm No. 184-001939

USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED - _____
 DRAWN - _____
 CHECKED - _____
 DATE - _____

REVISED - _____
 REVISED - _____
 REVISED - _____
 REVISED - _____

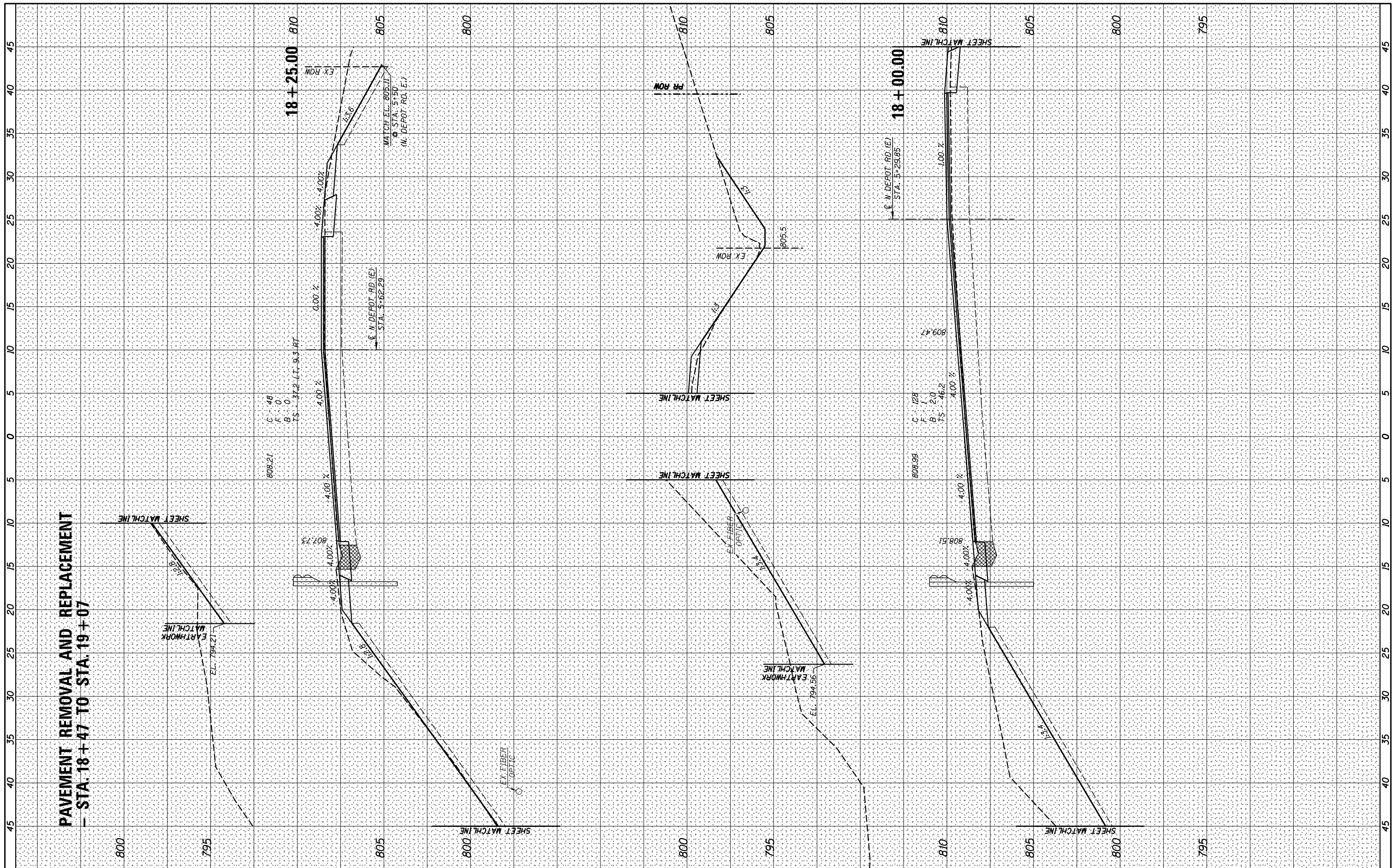
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL 167 (FINAL)
 SCALE: _____ SHEET 8 OF 16 SHEETS STA. 17+50.00 TO STA. 17+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,101) CR	KNOX	92	59
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

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

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



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 IL Design Firm No. 184-001939

USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

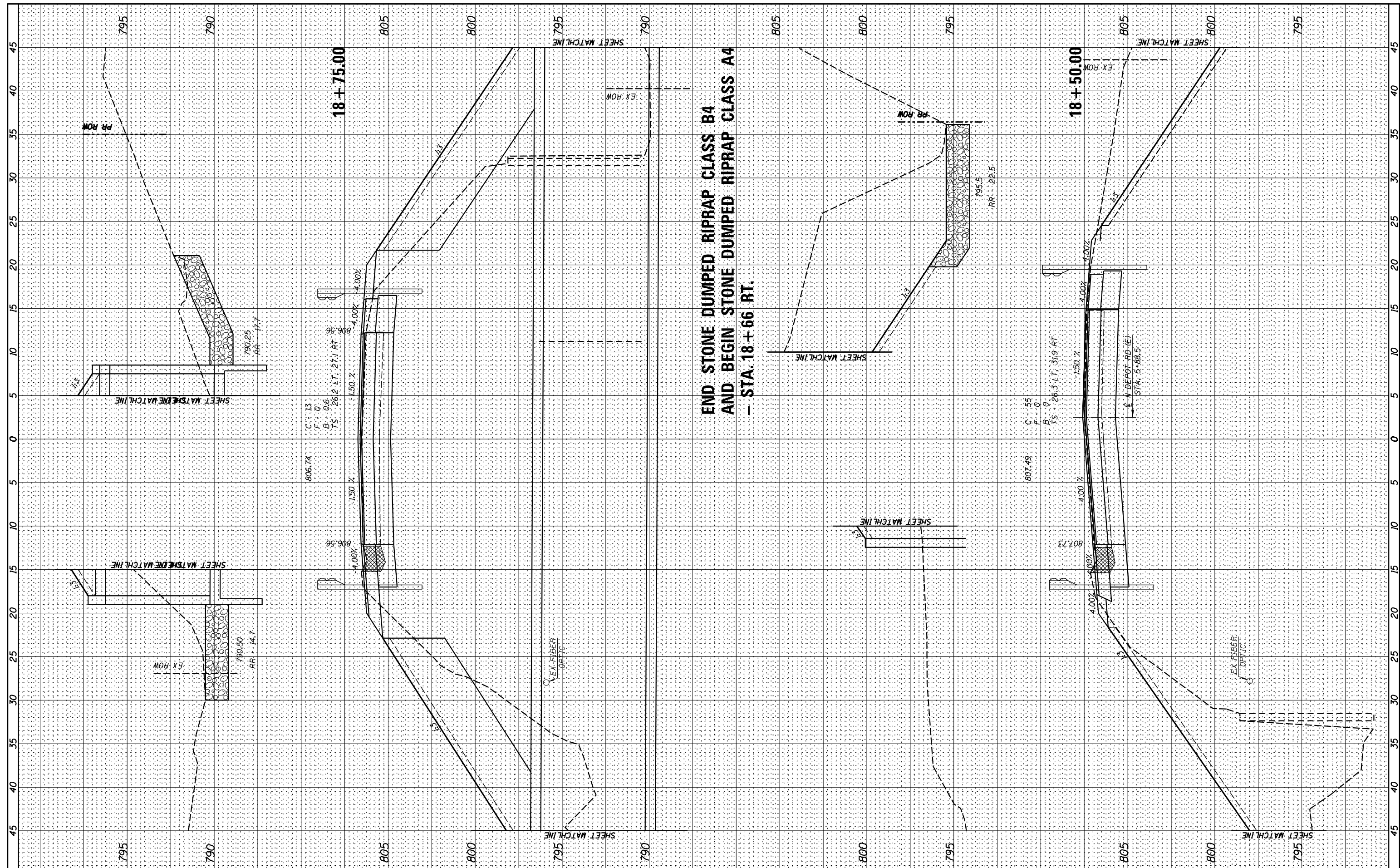
CROSS SECTIONS - IL 167 (FINAL)

SCALE: _____ SHEET 9 OF 16 SHEETS STA. 18+00.00 TO STA. 18+25.00

F.A.S. RTE. 379	SECTION (6,101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 60
				CONTRACT NO. 68C65
ILLINOIS FED. AID PROJECT				

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

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



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

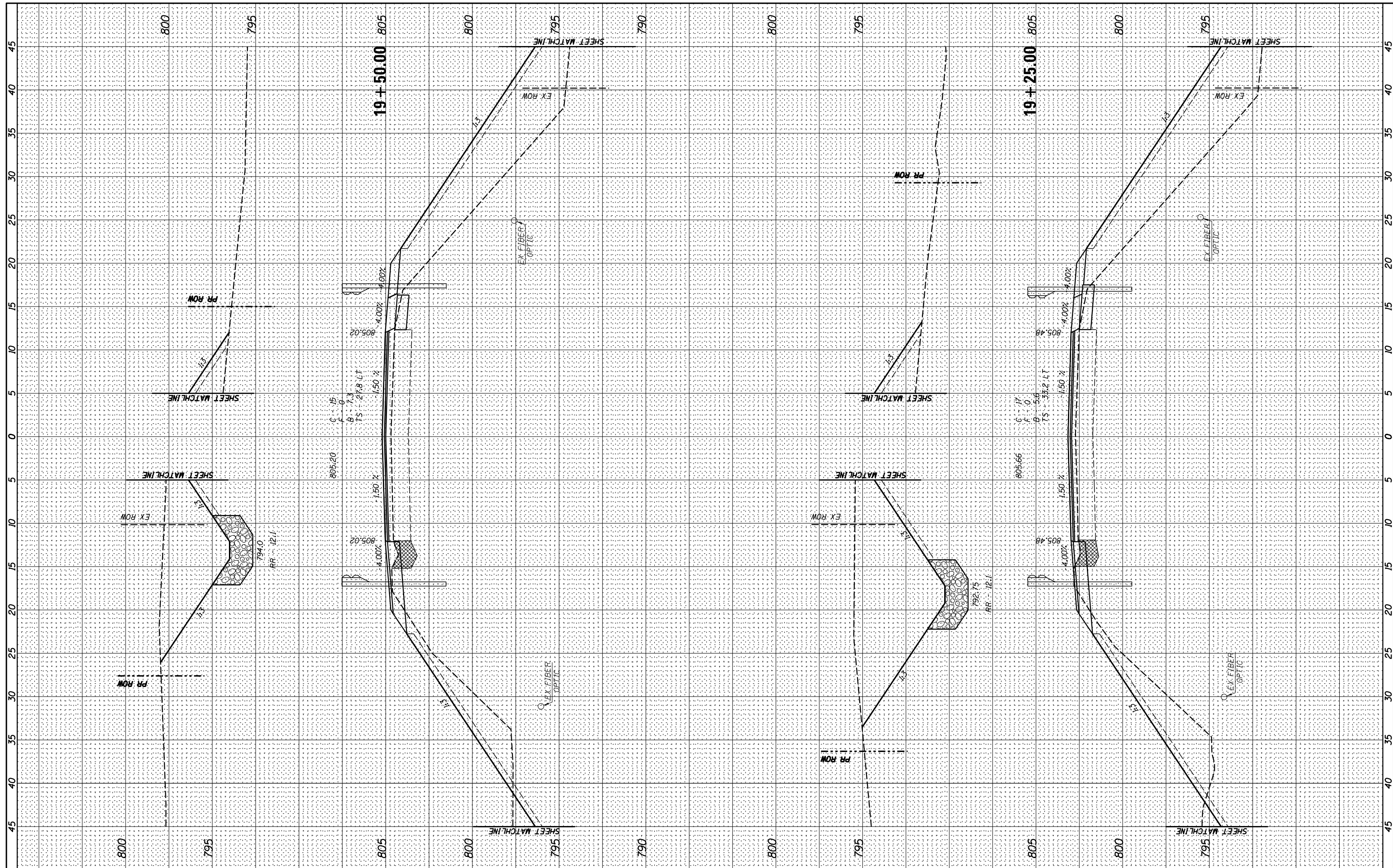
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL 167 (FINAL)
SCALE: _____ SHEET 10 OF 16 SHEETS STA. 18+50.00 TO STA. 18+75.00

F.A.S. RTE. 379	SECTION (6,101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 61
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED



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USER NAME = *USER*	DESIGNED -	REVISD -
	DRAWN -	REVISD -
	CHECKED -	REVISD -
	DATE -	REVISD -

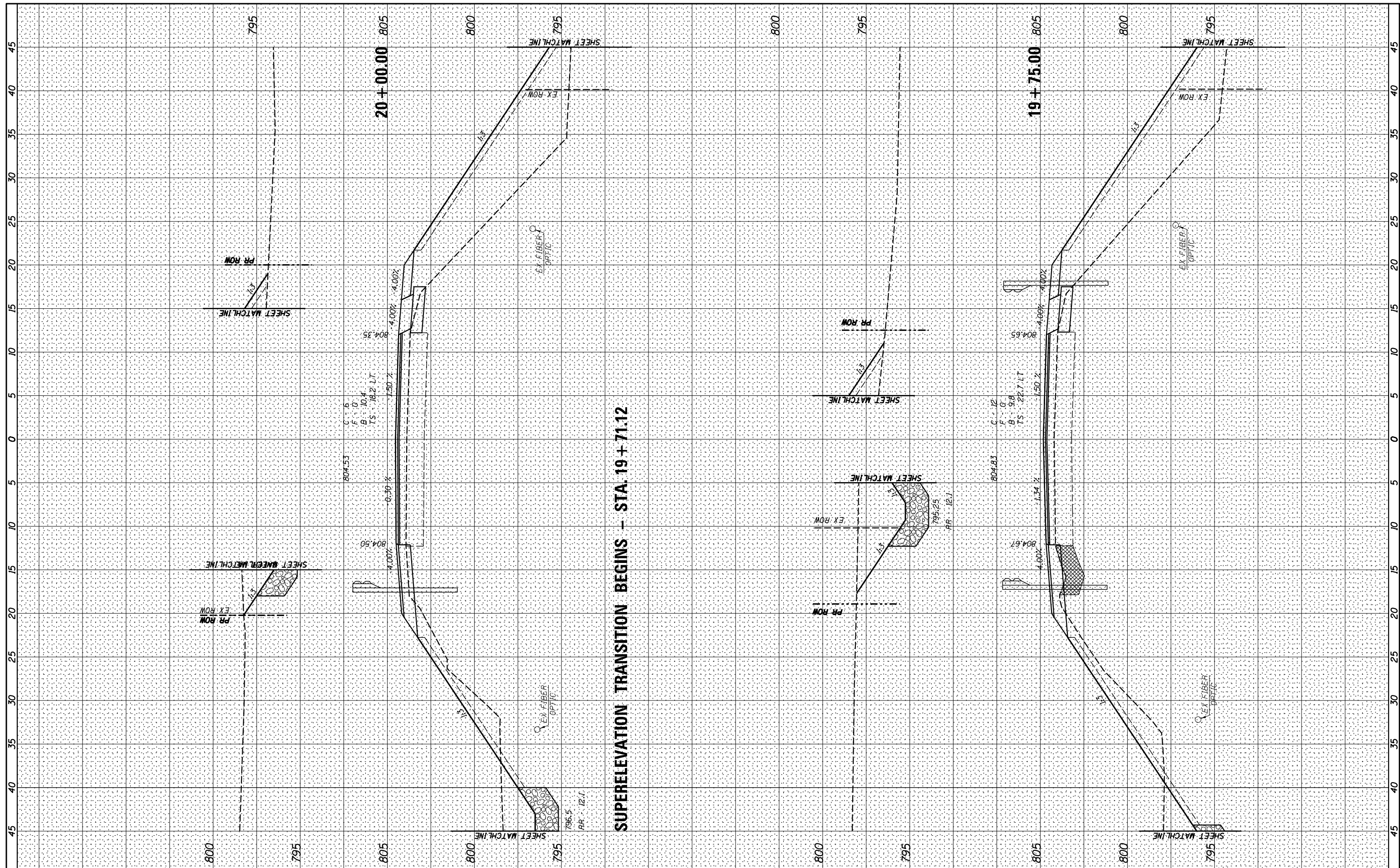
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IL 167 (FINAL)
SCALE: _____ SHEET 12 OF 16 SHEETS STA. 19+25.00 TO STA. 19+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	63
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

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

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



SUPERELEVATION TRANSITION BEGINS - STA. 19+71.12



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

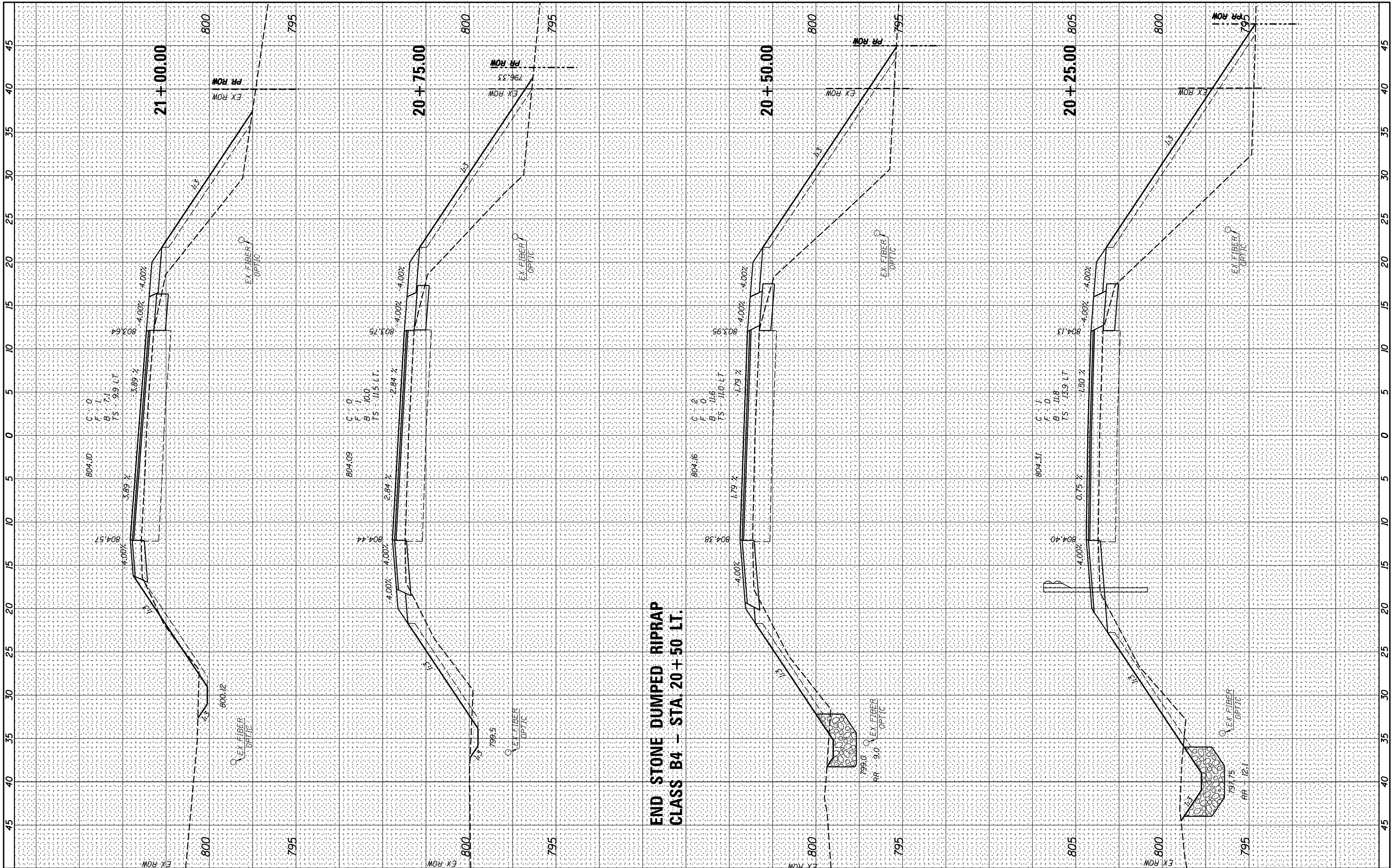
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IL 167 (FINAL)	
SCALE: _____	SHEET 13 OF 16 SHEETS STA. 19+75.00 TO STA. 20+00.00

F.A.S. RTE. 379	SECTION (6.101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 64
CONTRACT NO. 68C65				
<small>ILLINOIS FED. AID PROJECT</small>				

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

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



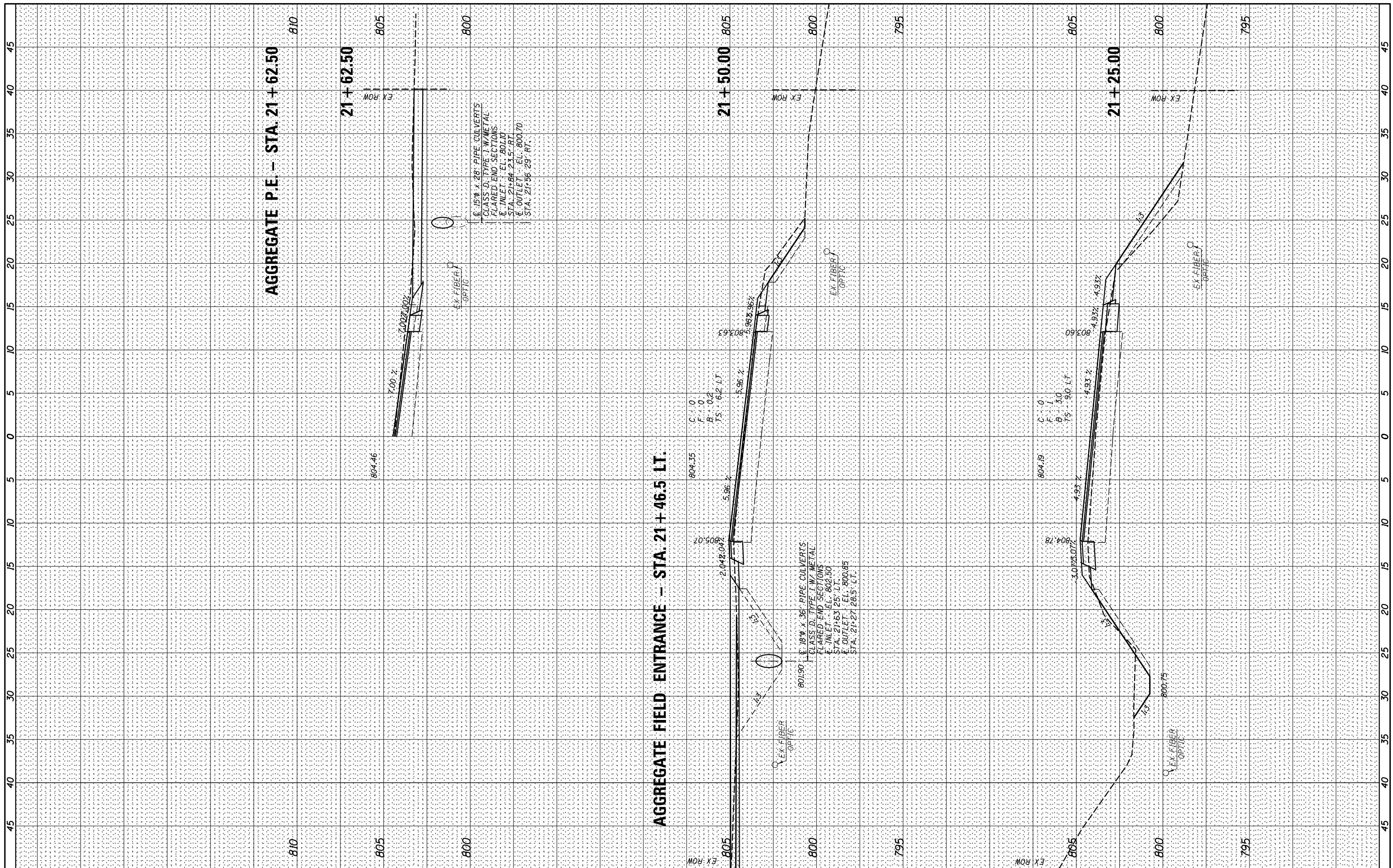
END STONE DUMPED RIPRAP
CLASS B4 - STA. 20+50 LT.

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

F.A.S. RTE. 379	SECTION (6.101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 65
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

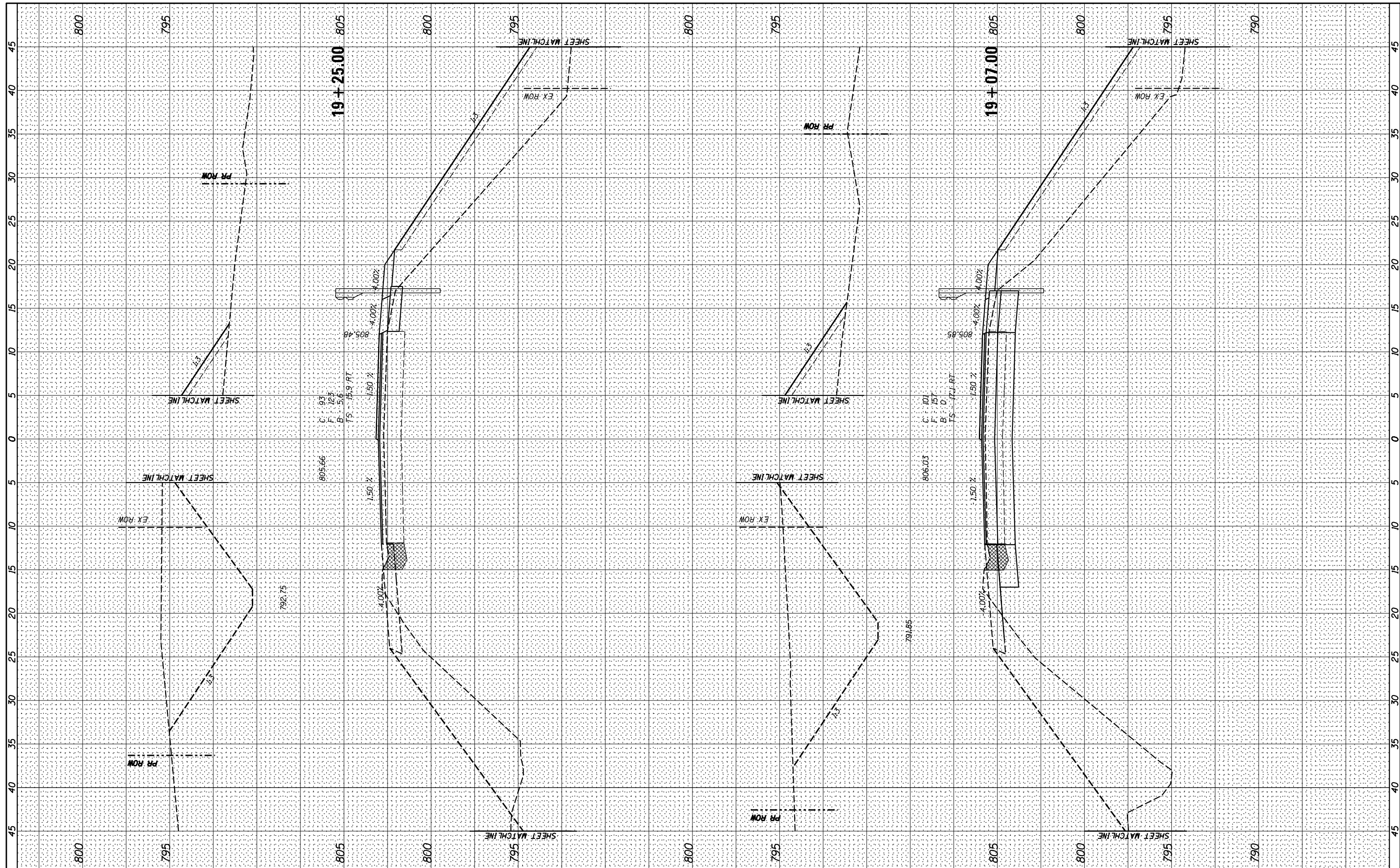
CROSS SECTIONS - IL 167 (FINAL)

SCALE: _____ SHEET 15 OF 16 SHEETS STA. 21+25.00 TO STA. 21+62.50

F.A.S. RTE. 379	SECTION (6,10) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 66
CONTRACT NO. 68C65				ILLINOIS FED. AID PROJECT

BY	DATE

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



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USER NAME = *USER*	DESIGNED -	REVISOR -
	DRAWN -	REVISOR -
	CHECKED -	REVISOR -
	DATE -	REVISOR -

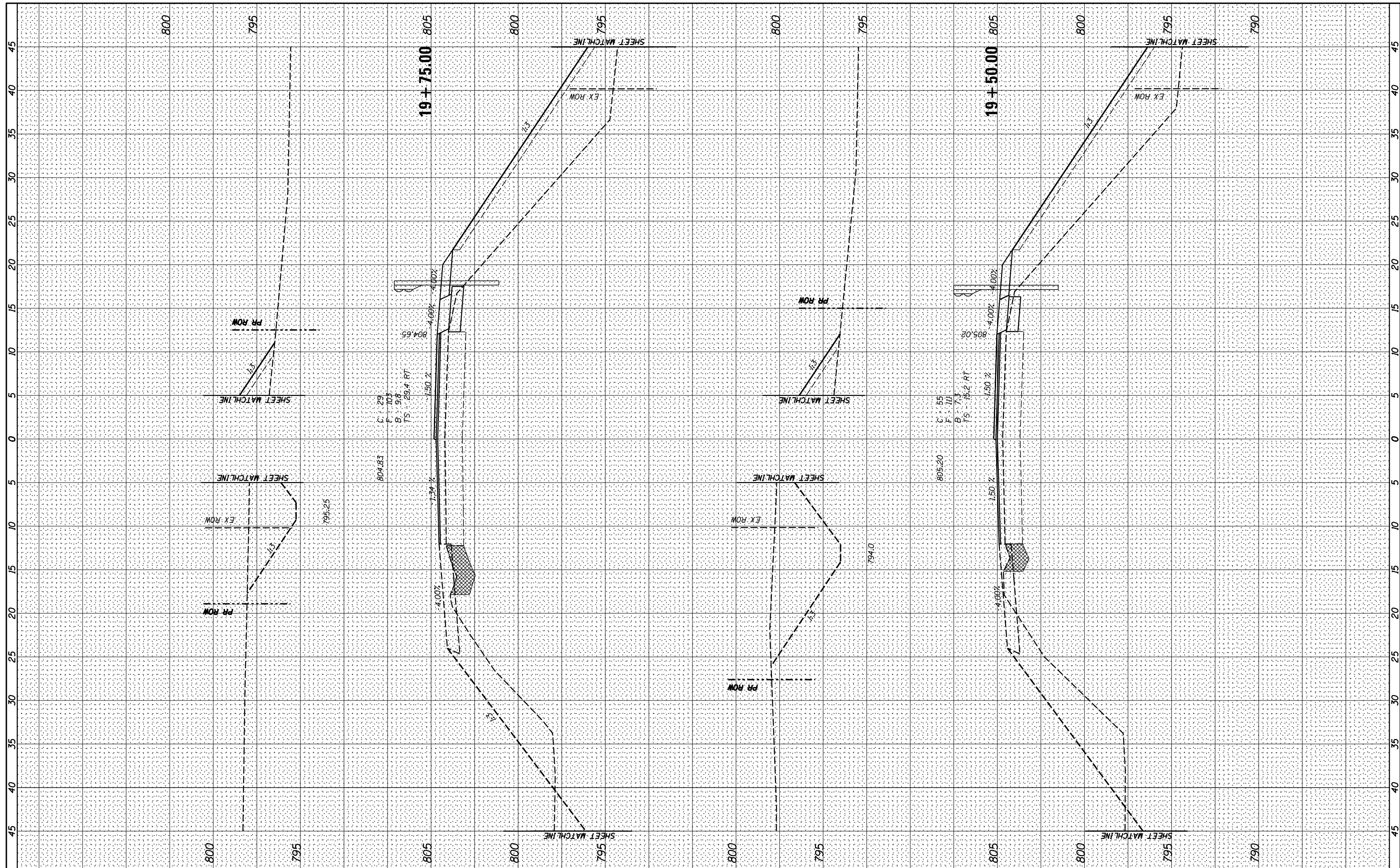
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IL 167 (STAGE II)
 SCALE: _____ SHEET 3 OF 7 SHEETS STA. 19+80.00 TO STA. 19+06.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	70
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS _____
 AREAS _____
 CHECKED _____

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS _____
 AREAS _____
 CHECKED _____



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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

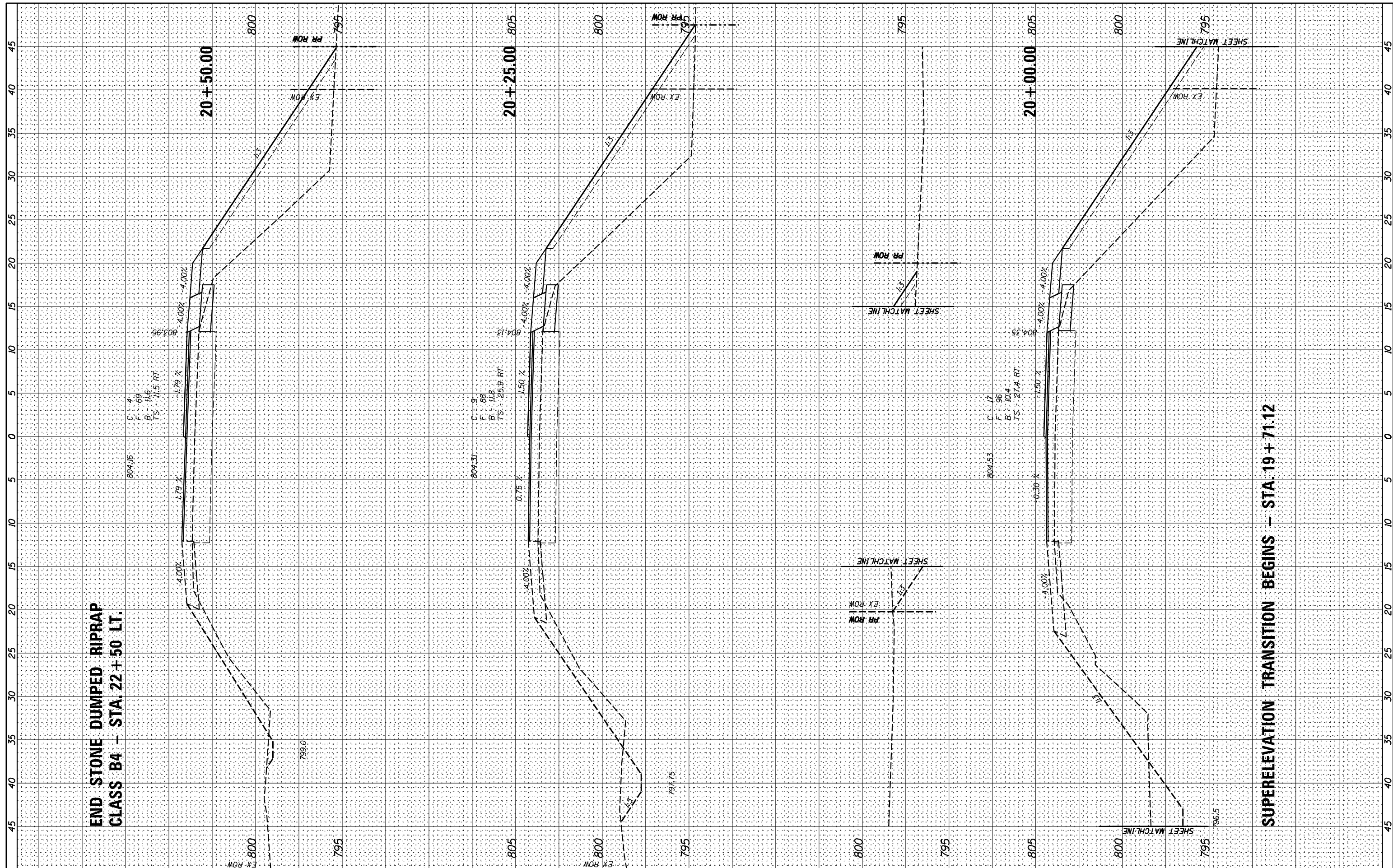
CROSS SECTIONS - IL 167 (STAGE II)

SCALE: _____ SHEET 4 OF 7 SHEETS STA. 19+50.00 TO STA. 19+05.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	71
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NO. _____

BY: _____ DATE: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NO. _____



USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED - _____
 DRAWN - _____
 CHECKED - _____
 DATE - _____

REVISED - _____
 REVISED - _____
 REVISED - _____
 REVISED - _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - IL 167 (STAGE II)

SCALE: _____ SHEET 5 OF 7 SHEETS STA. 20+30.00 TO STA. 20+50.00

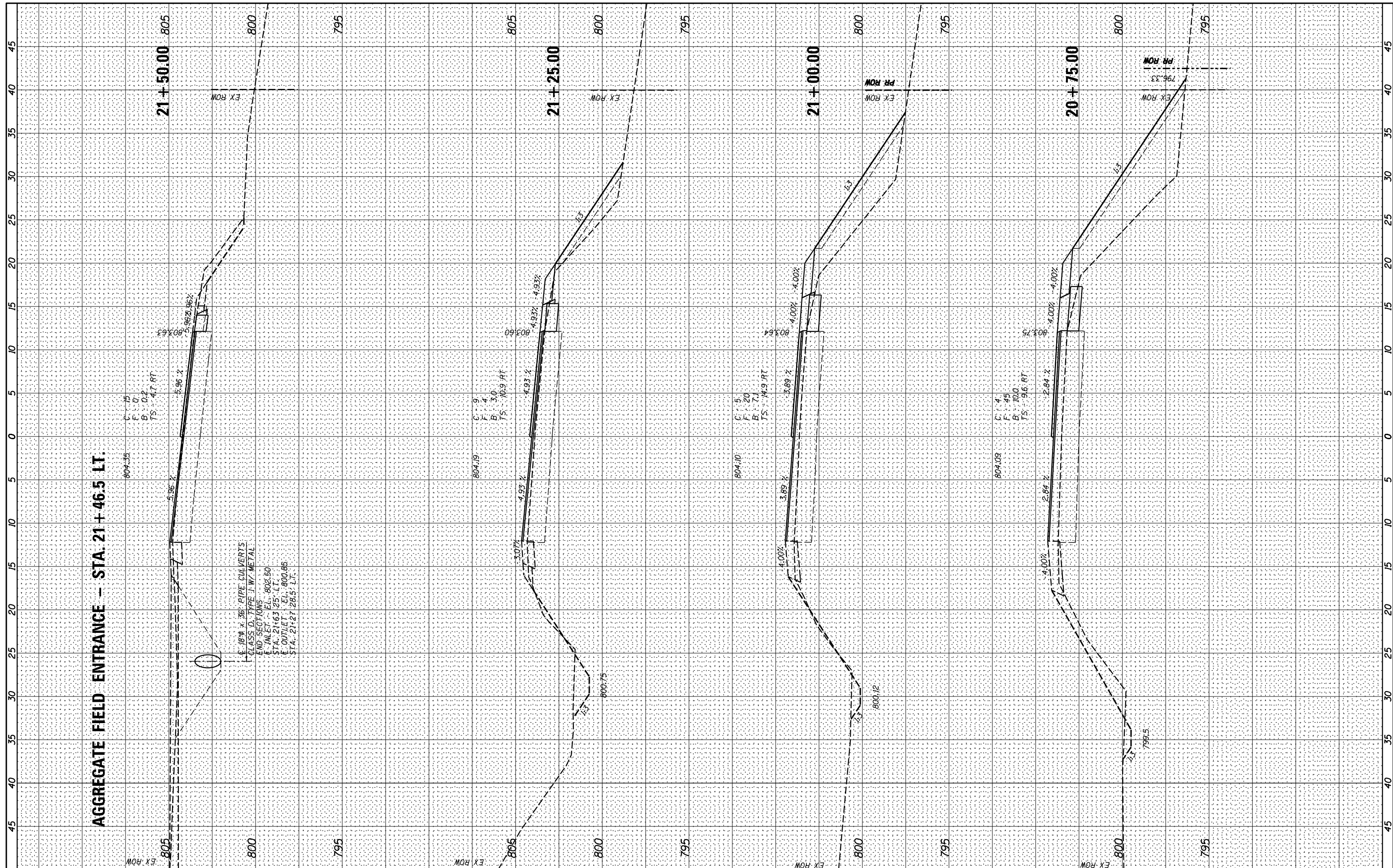
F.A.S. RTE. 379	SECTION (6.10) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 72
CONTRACT NO. 68C65				

SUPERELEVATION TRANSITION BEGINS - STA. 19+71.12

ILLINOIS FED. AID PROJECT

BY	DATE

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



AGGREGATE FIELD ENTRANCE - STA. 21+46.5 LT.

CLASS O. TYPE J-W METAL
 36" PIPE CULVERTS
 END SECTIONS
 INLET EL. 802.50
 STA. 21+63.25 LT.
 OUTLET EL. 800.85
 STA. 21+21.28 LT.



USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED	REVISOR
DRAWN	REVISOR
CHECKED	REVISOR
DATE	REVISOR

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

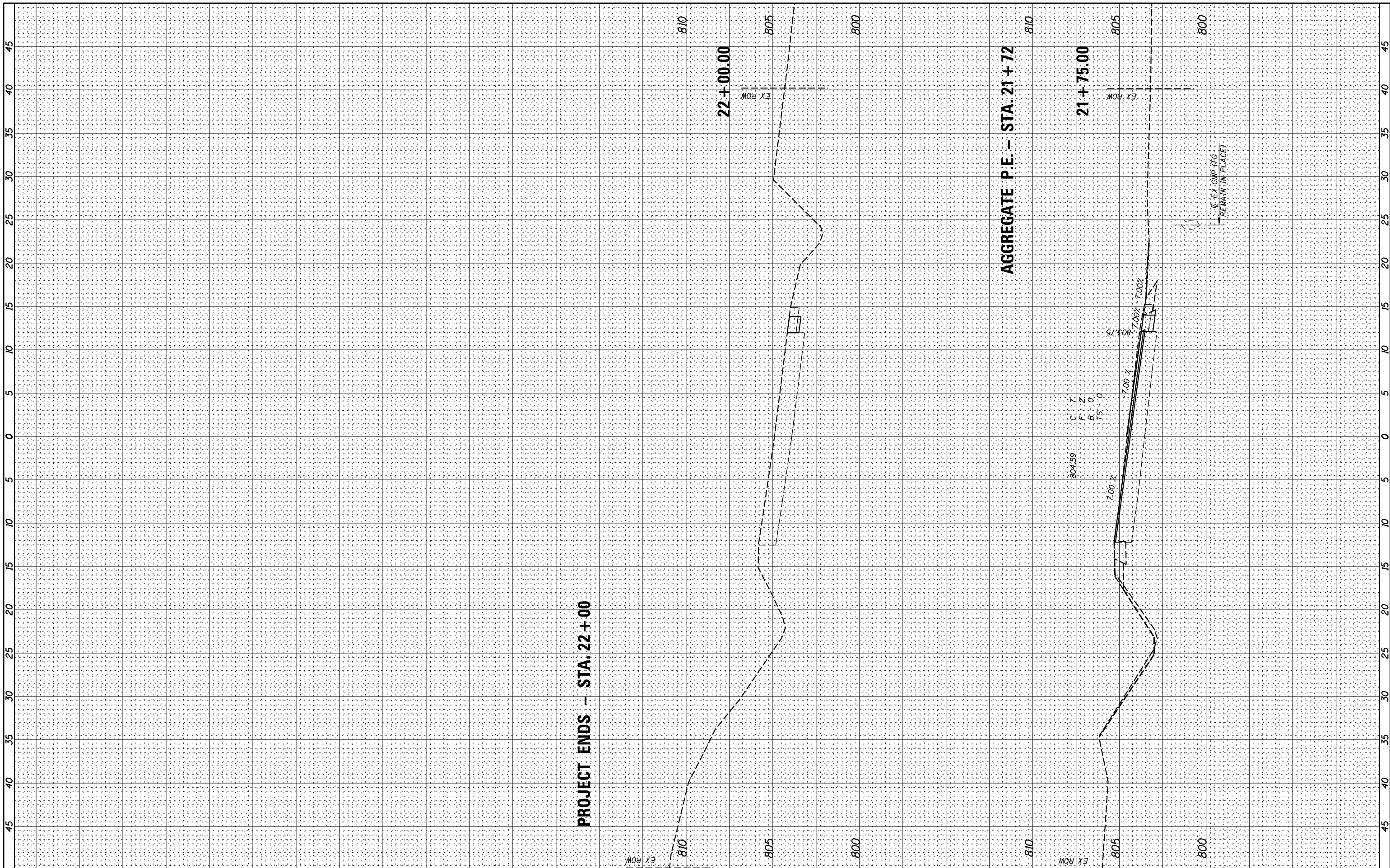
CROSS SECTIONS - IL 167 (STAGE II)

SCALE: _____ SHEET 6 OF 7 SHEETS STA. 20+75.00 TO STA. 21+80.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	73
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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

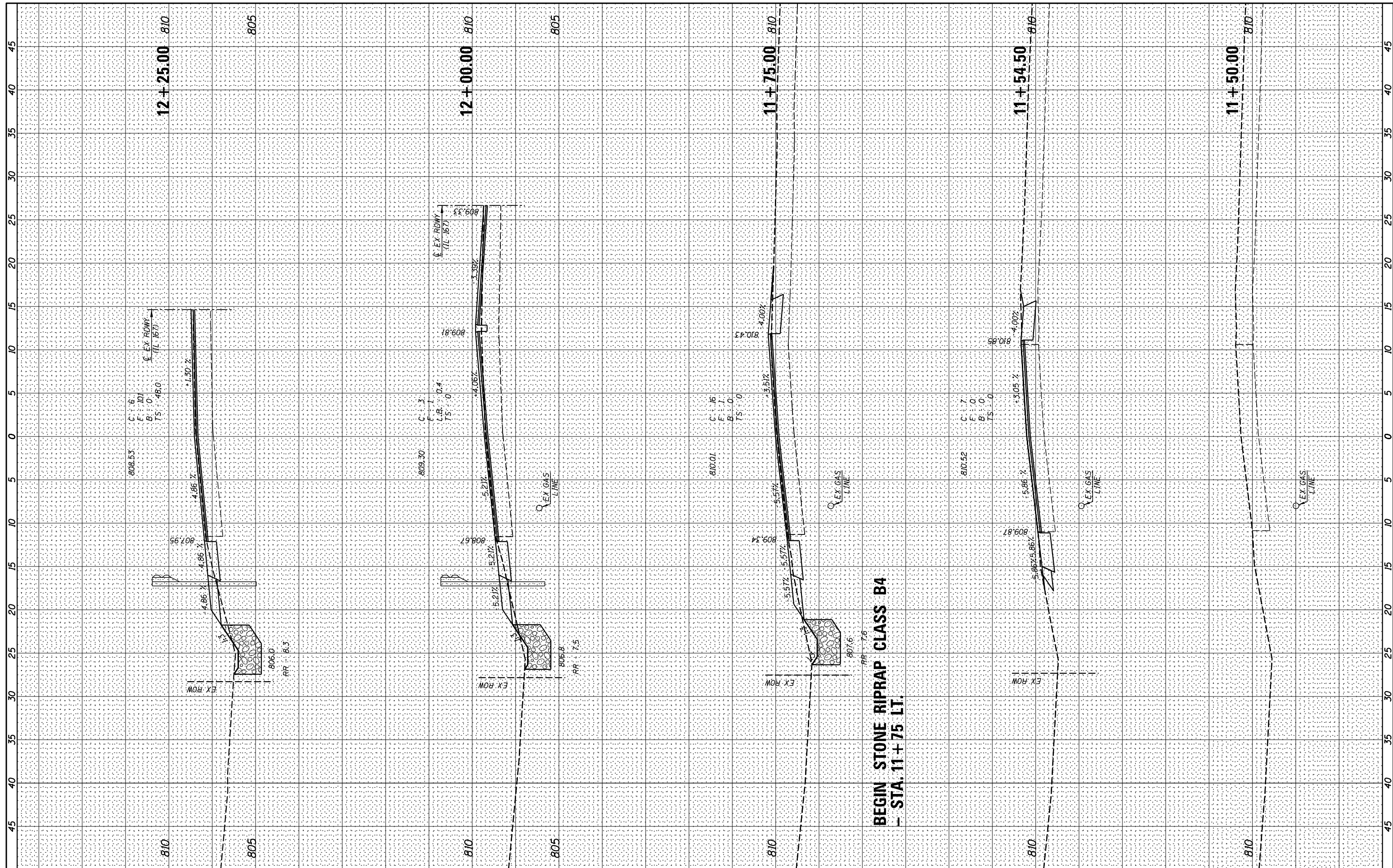
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - IL 167 (STAGE II)	
SCALE: _____	SHEET 7 OF 7 SHEETS STA. 21+36.00 TO STA. 22+06.00

F.A.S. RTE. 379	SECTION (6.101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 74
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS
	CHECKED



**BEGIN STONE RIPRAP CLASS B4
- STA. 11+75 LT.**



USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - N. DEPOT RD (WEST)

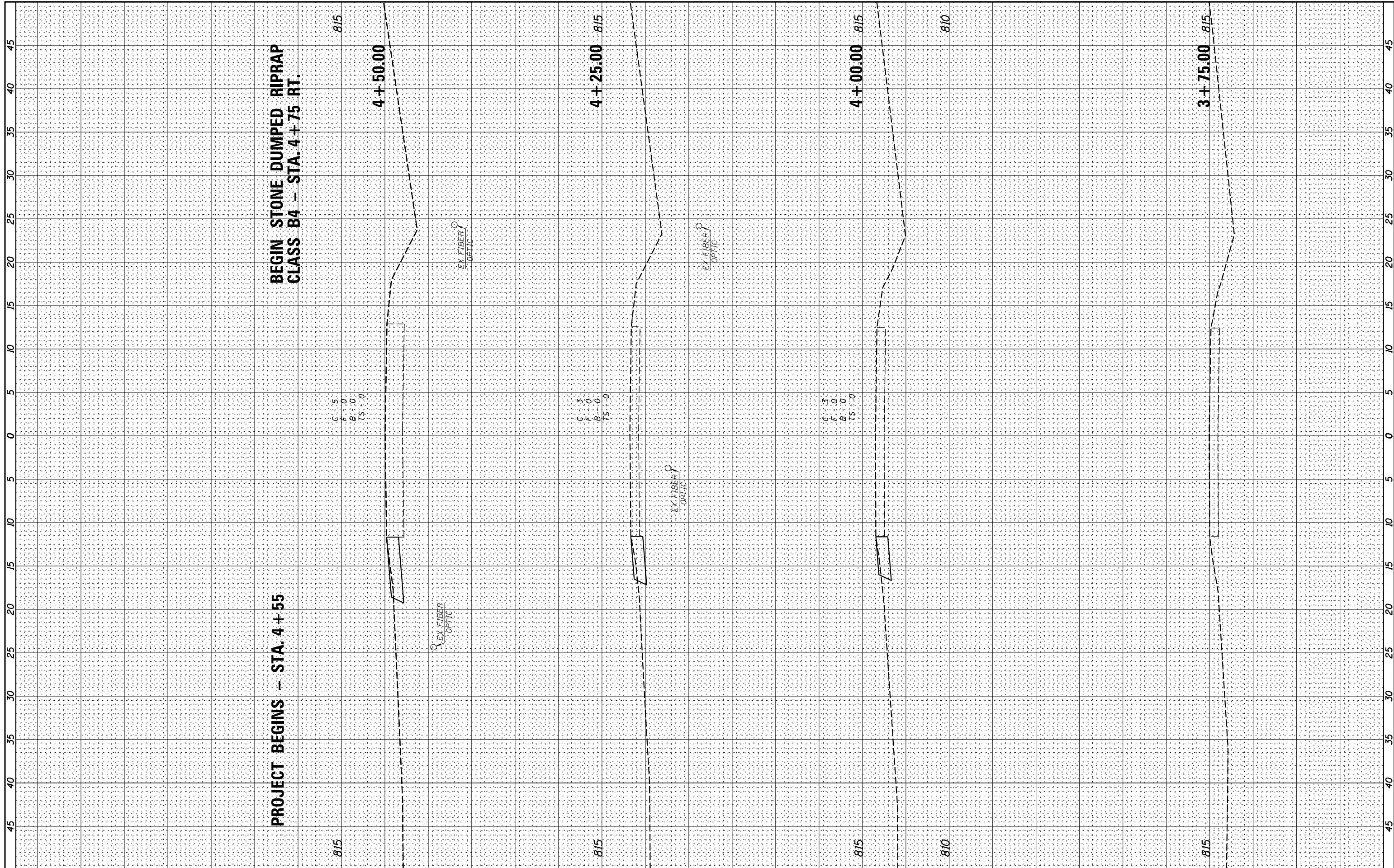
SCALE: SHEET 1 OF 1 SHEETS STA. 11+00.00 TO STA. 11+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	75
CONTRACT NO. 68C65				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = *USER*
 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - N DEPOT RD EAST

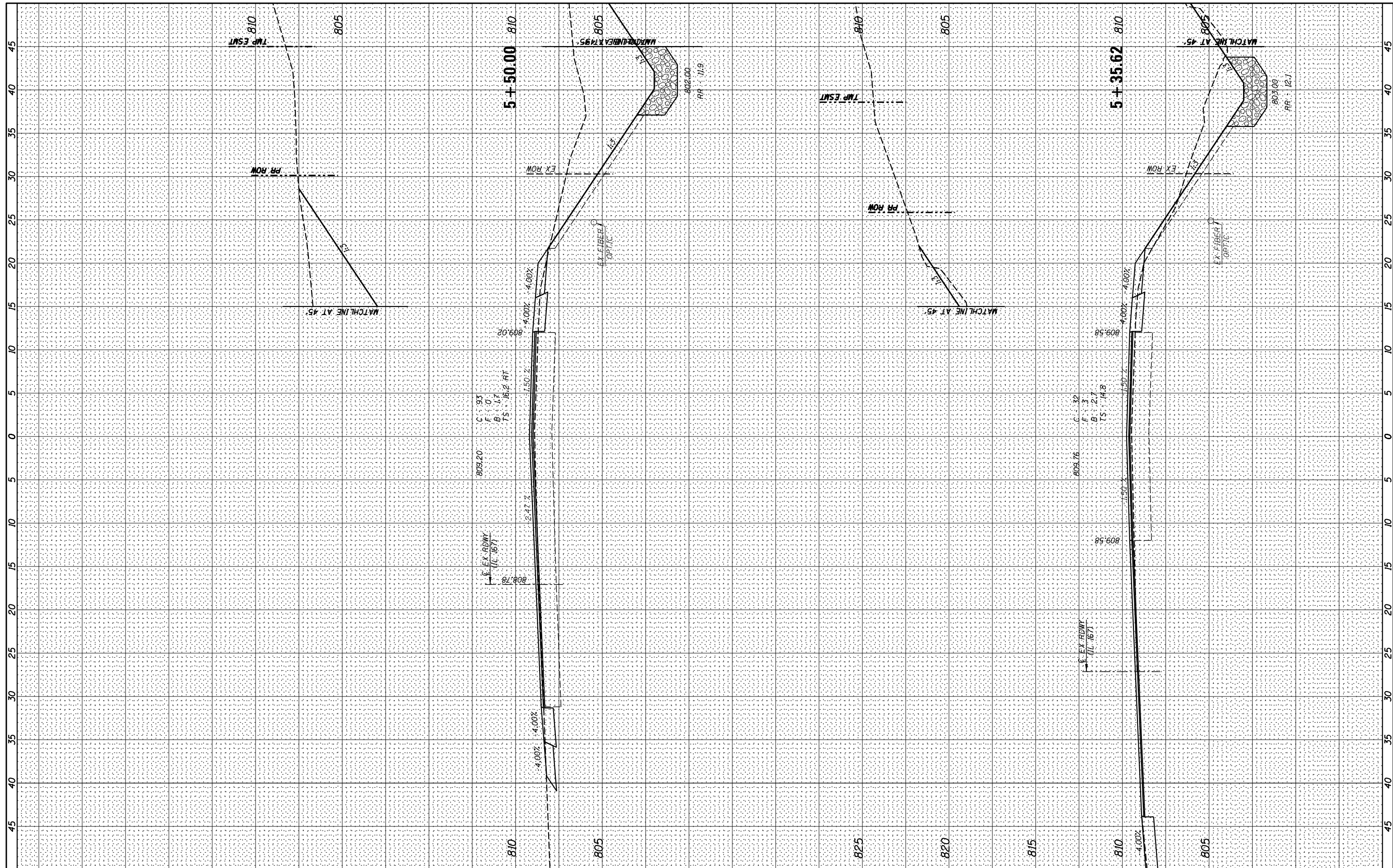
SCALE: SHEET 1 OF 3 SHEETS STA. 3+75.00 TO STA. 4+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	76
CONTRACT NO. 68C65				

ILLINOIS FED. AID PROJECT

BY	DATE

ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



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

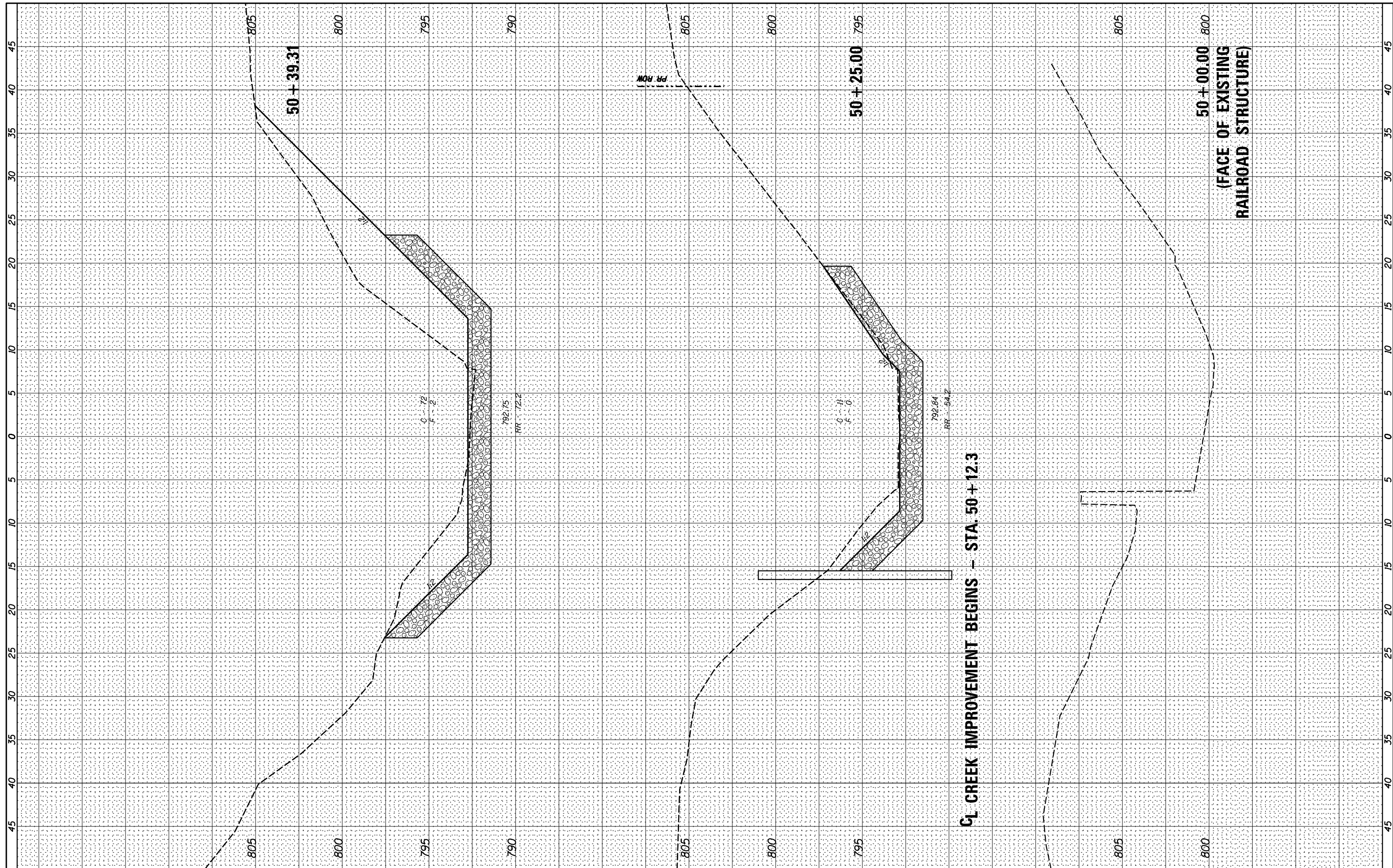
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - N DEPOT RD EAST
 SCALE: SHEET 3 OF 3 SHEETS STA. 5+35.62 TO STA. 5+50.00

F.A.S. RTE. 379	SECTION (6.101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 78
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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

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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

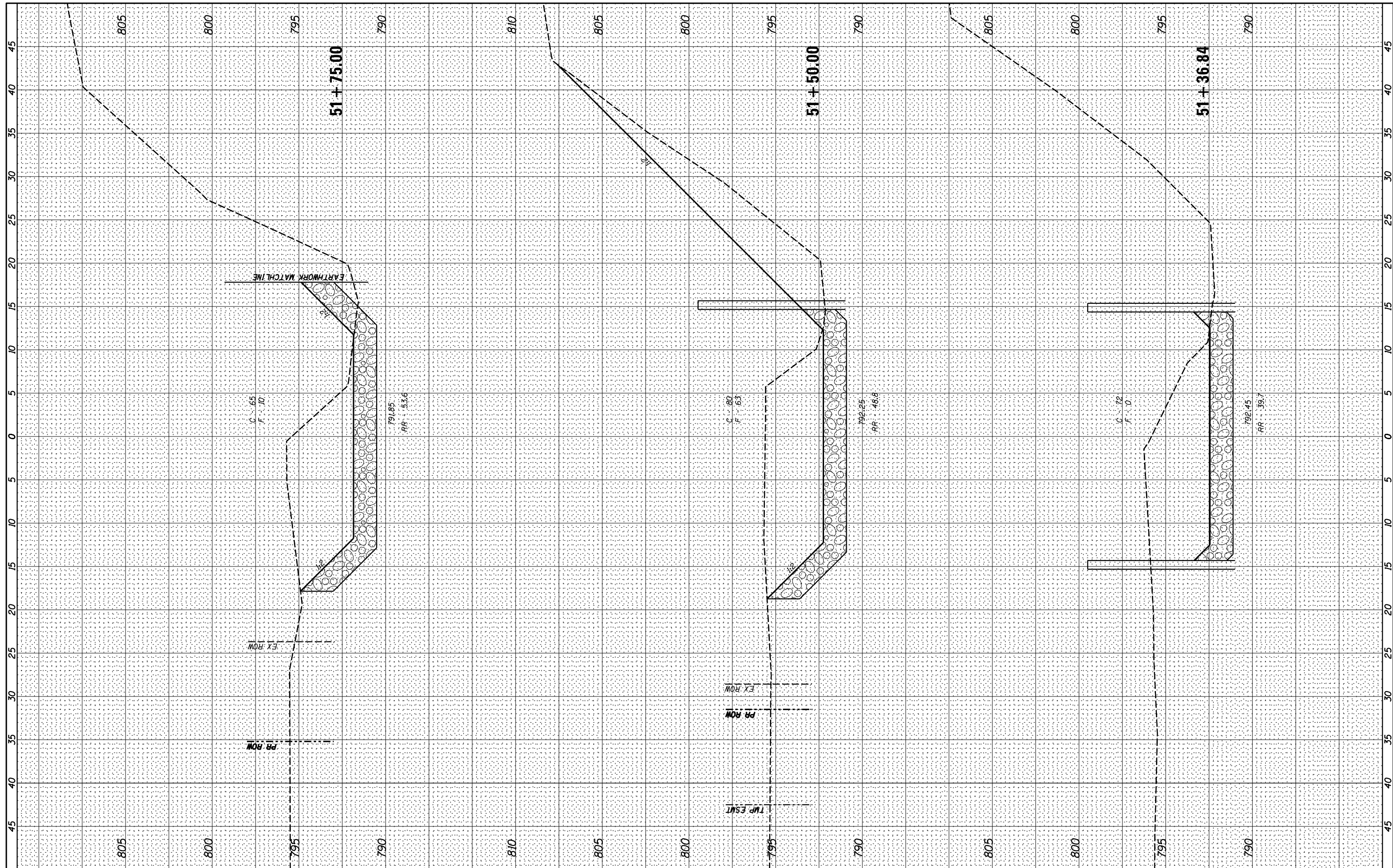
CROSS SECTIONS - CREEK

SCALE: _____ SHEET 1 OF 4 SHEETS STA. 50+00.00 TO STA. 50+39.31

F.A.S. RTE. 379	SECTION (6.101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 79
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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

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

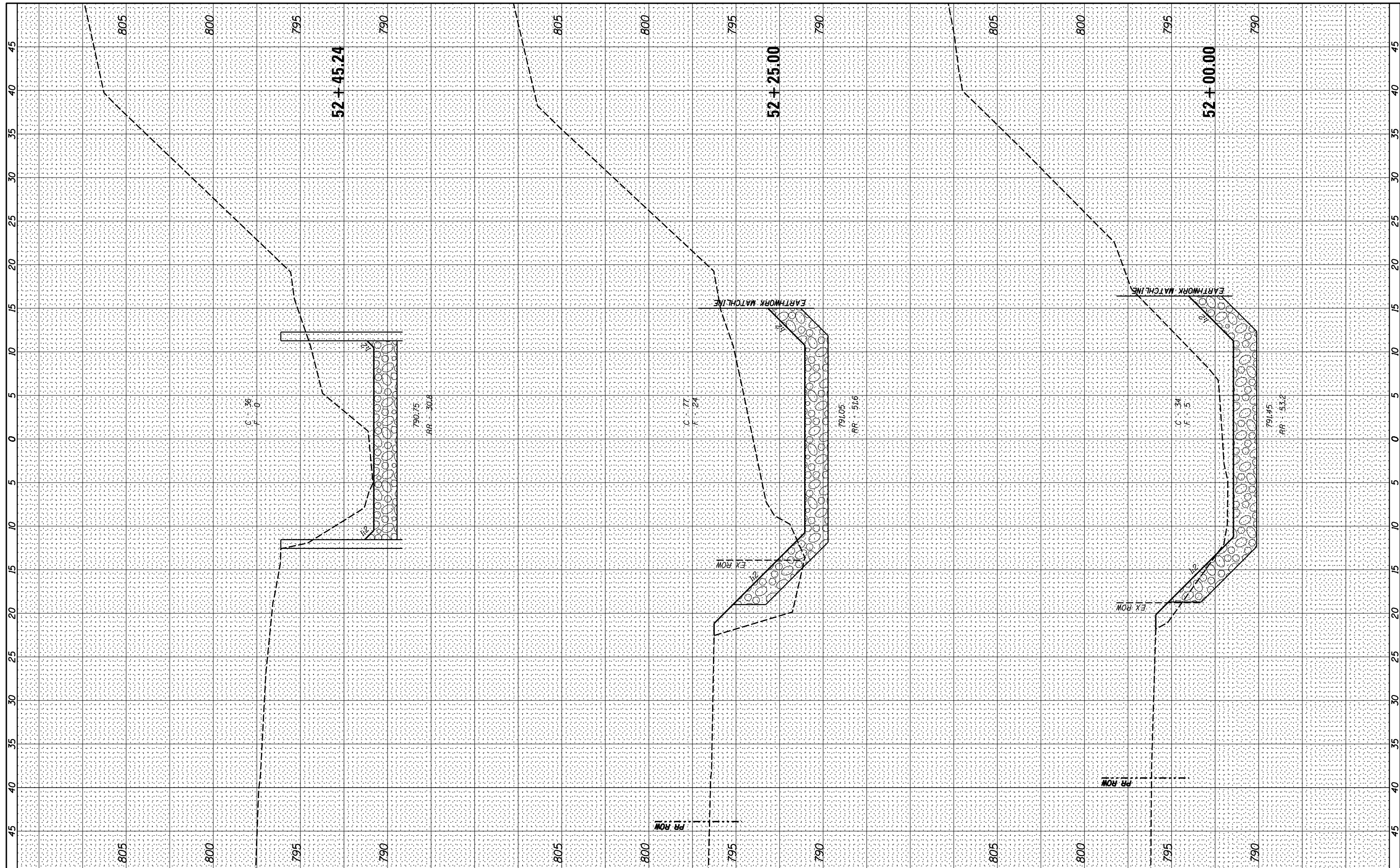
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - CREEK
 SCALE: _____ SHEET 2 OF 4 SHEETS STA. 51+36.84 TO STA. 51+50.00

F.A.S. RTE. 379	SECTION (6.101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 80
CONTRACT NO. 68C65				
<small>ILLINOIS FED. AID PROJECT</small>				

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

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



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

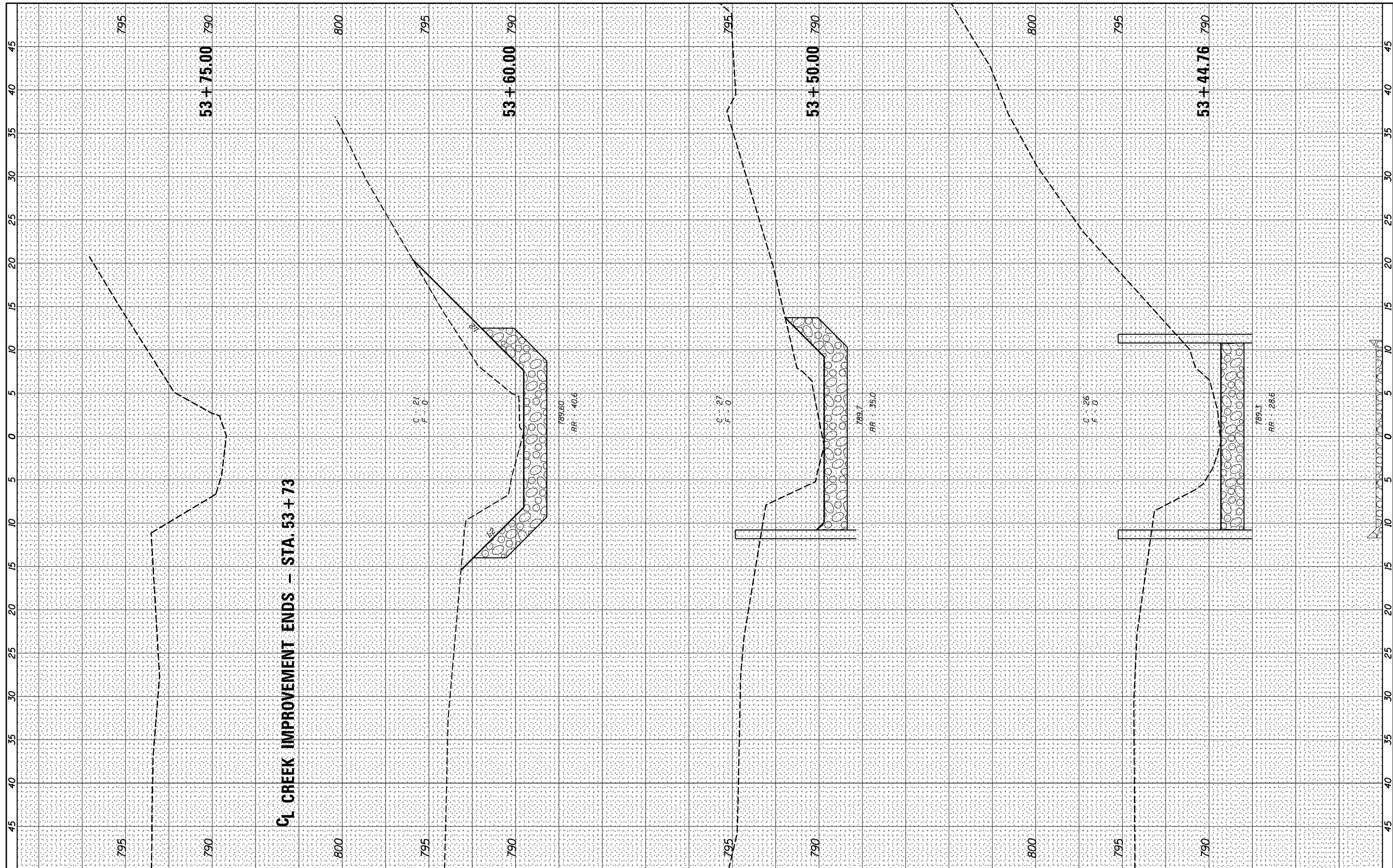
CROSS SECTIONS - CREEK

SCALE: _____ SHEET 3 OF 4 SHEETS STA. 51+75.00 TO STA. 52+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	81
CONTRACT NO. 68C65				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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

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

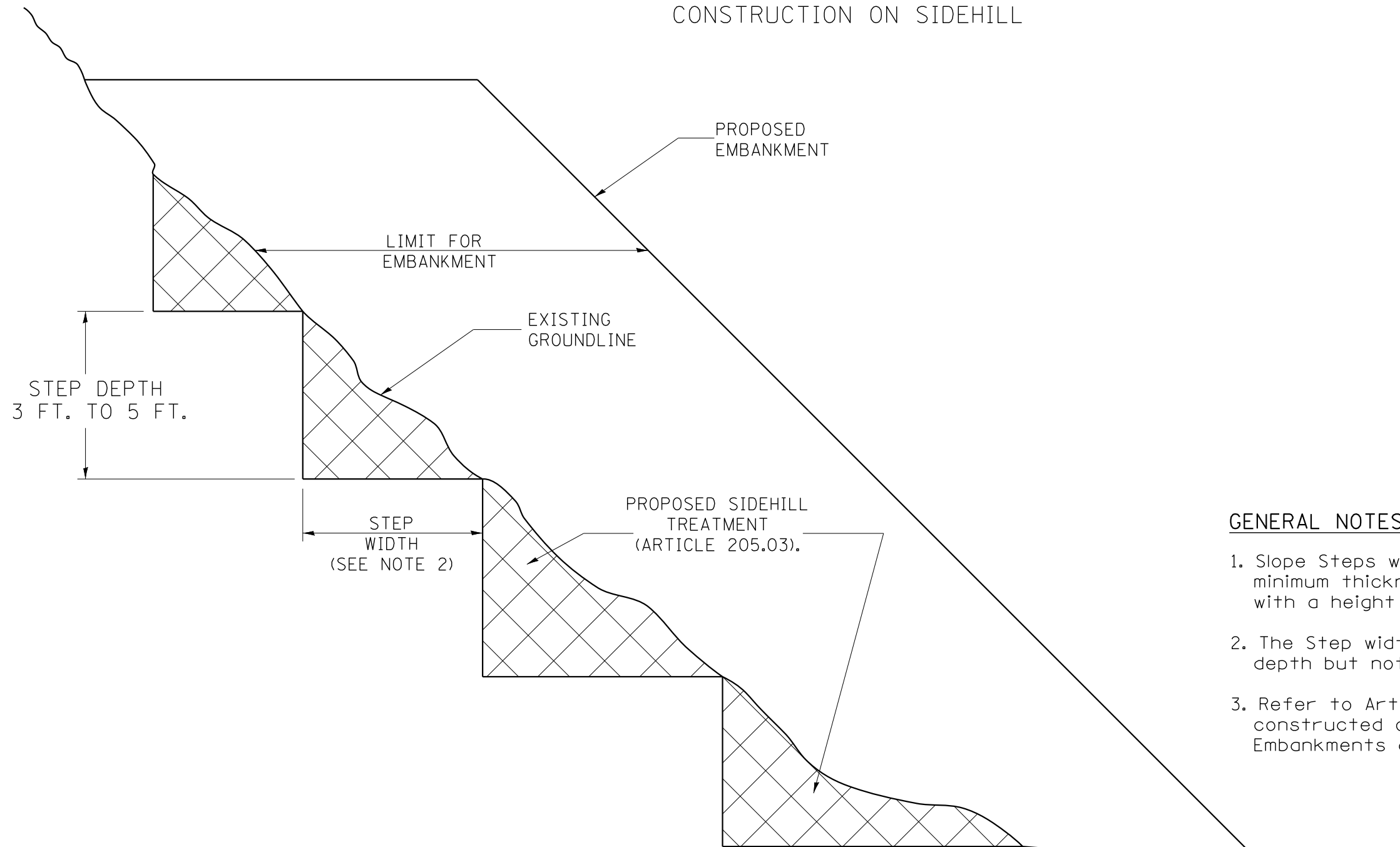
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - CREEK
SCALE: _____ SHEET 4 OF 4 SHEETS STA. 53+44.76 TO STA. 53+50.00

F.A.S. RTE. 379	SECTION (6.101) CR	COUNTY KNOX	TOTAL SHEETS 92	SHEET NO. 82
CONTRACT NO. 68C65				
ILLINOIS FED. AID PROJECT				

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



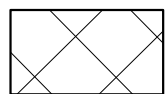
GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on a fills with a height of 10 feet or greater.
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.

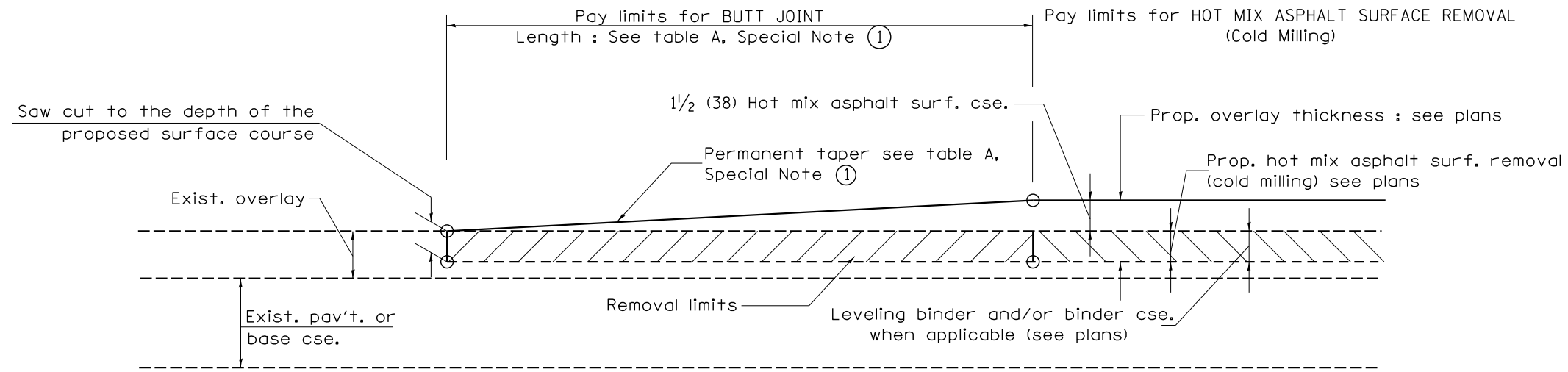
REPLACEMENT MATERIAL:



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

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

1:1=97	BENUM. 1-5.03. NEW REVISION BOX. REVISED TITLE	I.P.		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE STEPS DETAIL	
	BOX. REVISED GENERAL NOTES					
	REVISED IO 2007 SPEC.	M.A.				
				NOT TO SCALE	CADD SID. 205001-04	
						F.A.S. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 379 (6.10) CR KNOX 92 83 CONTRACT NO. 68C65 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



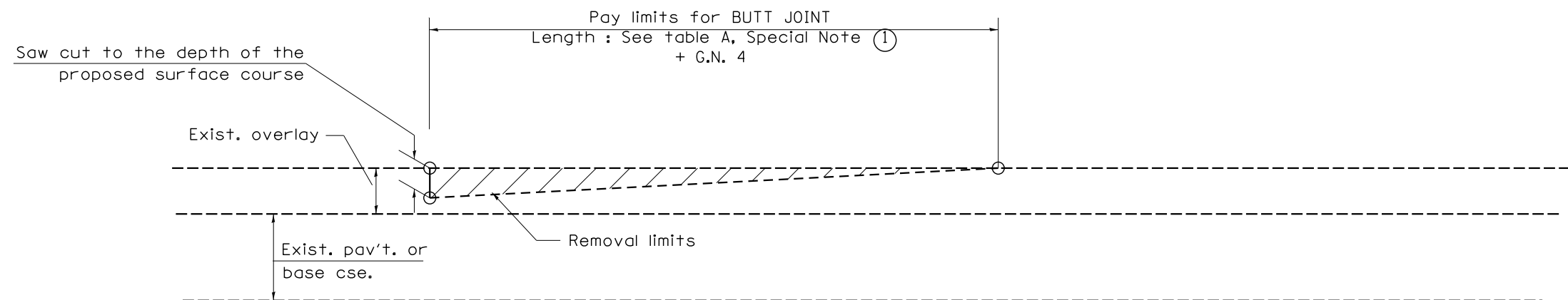
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

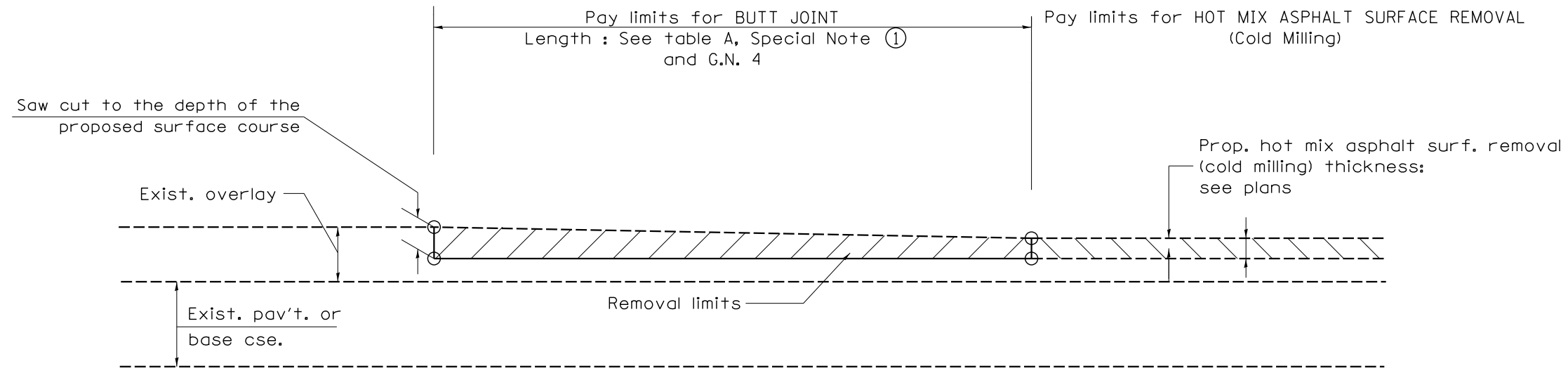
GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.

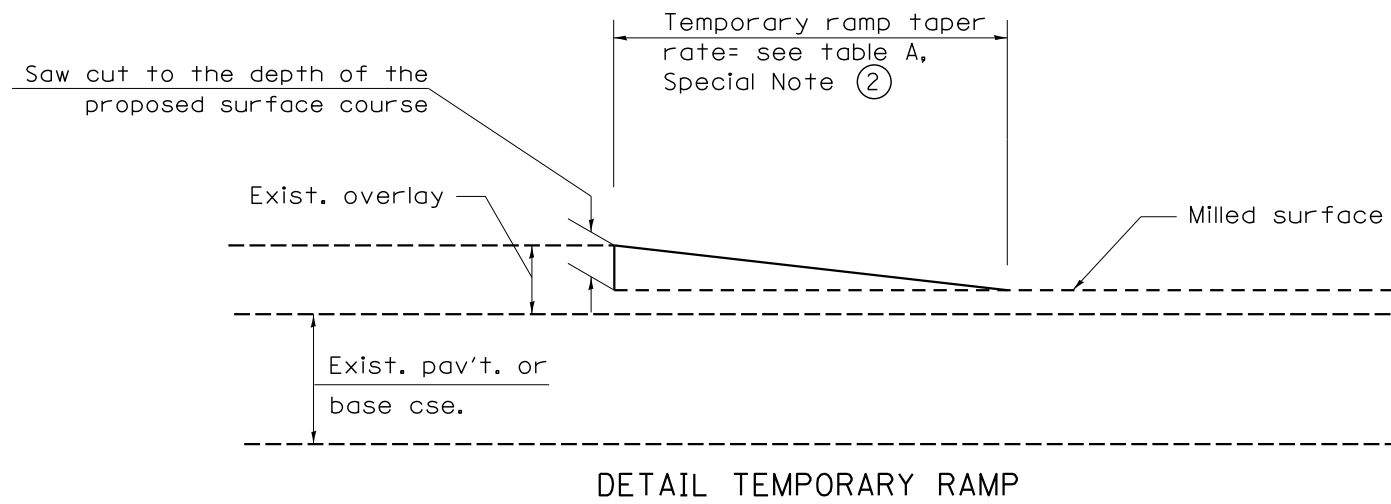


CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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



**CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



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

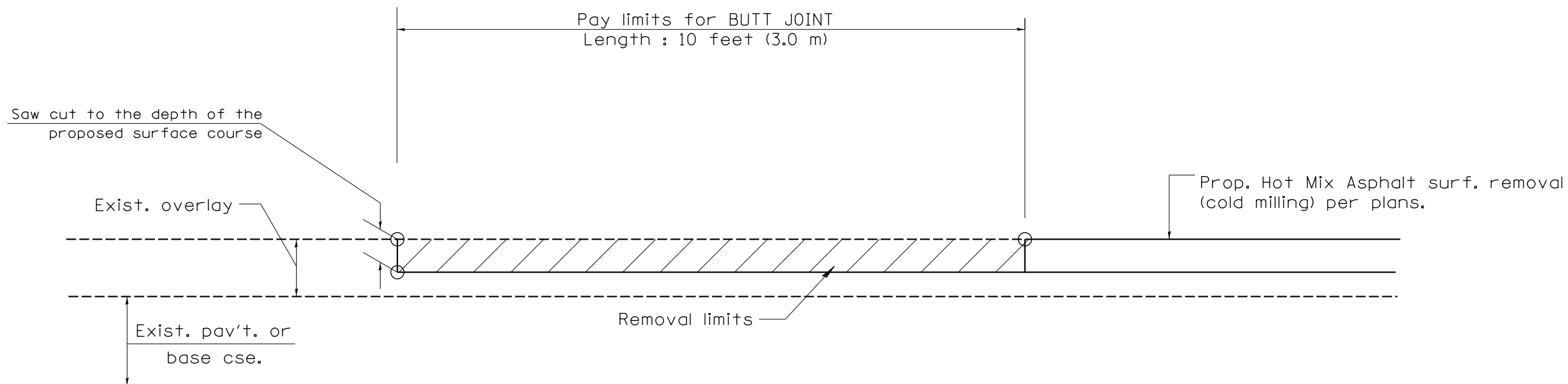
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHI_2_OF_3
CADD SID_406101:04

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	85
CONTRACT NO. 68C65				
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

BUTT JOINTS

SHI_3 OE_3
CADD SID_406101:04

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	86
CONTRACT NO. 68C65				
<small>FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT</small>				

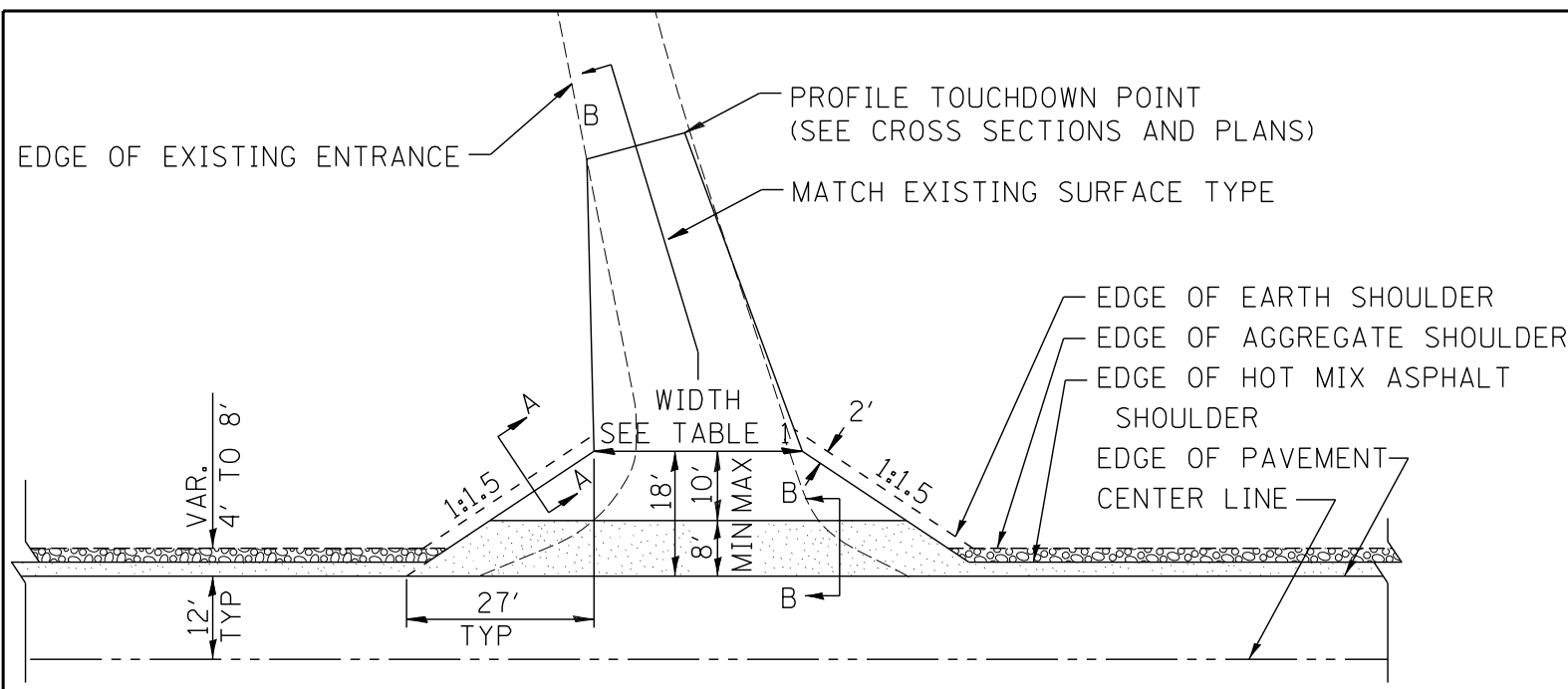
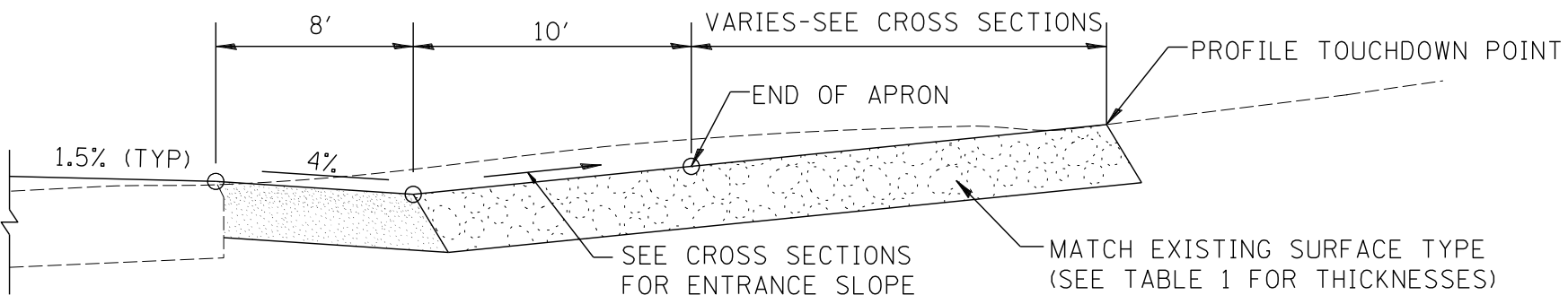
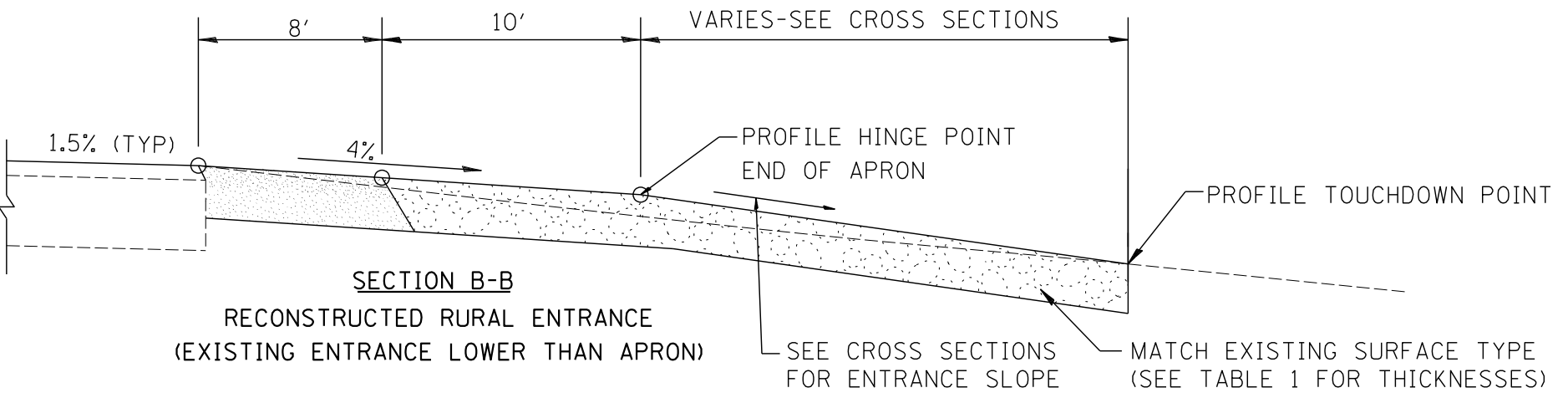


TABLE 1				
RURAL ENTRANCE DESIGN				
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL
	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	30' (9.0m)Max.
FLARE	1:1.5			
MAX. GRADE (G)	12%		10%	
SURFACE TYPE				
INCIDENTAL HOT MIX ASPHALT SURFACING	6"		8"	
AGGREGATE SURFACE COURSE	6"		8"	
PCC DRIVEWAY PAVEMENT	6"		7"	

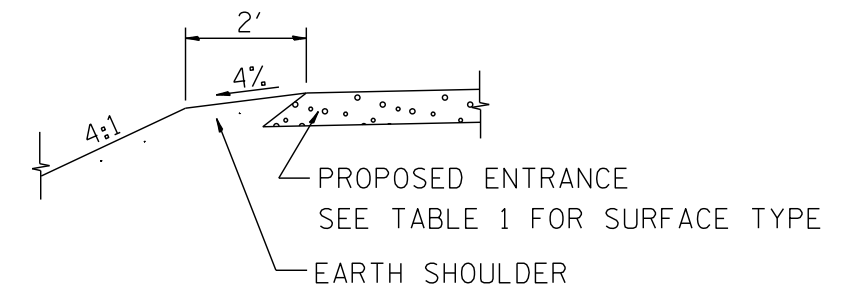
PLAN
COMMERCIAL / FARM-RELATED ENTRANCE



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE LOWER THAN APRON)



SECTION A-A
SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

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

01-01-97	BENJAMIN C. 103.06. NEW REVISION BOX	J.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGN NOTES	J.A.	9-15-15	UPDATED TABLE 1	B.D.
01-17-03	ADJUST DESIGN CHANGE ENTRANCE	J.A.B.	2-29-16	MINOR CORRECTIONS	B.D.
09-15-05	RADIUS FOR FLARE	M.M.A.			

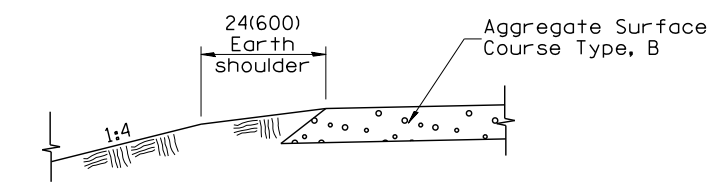
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

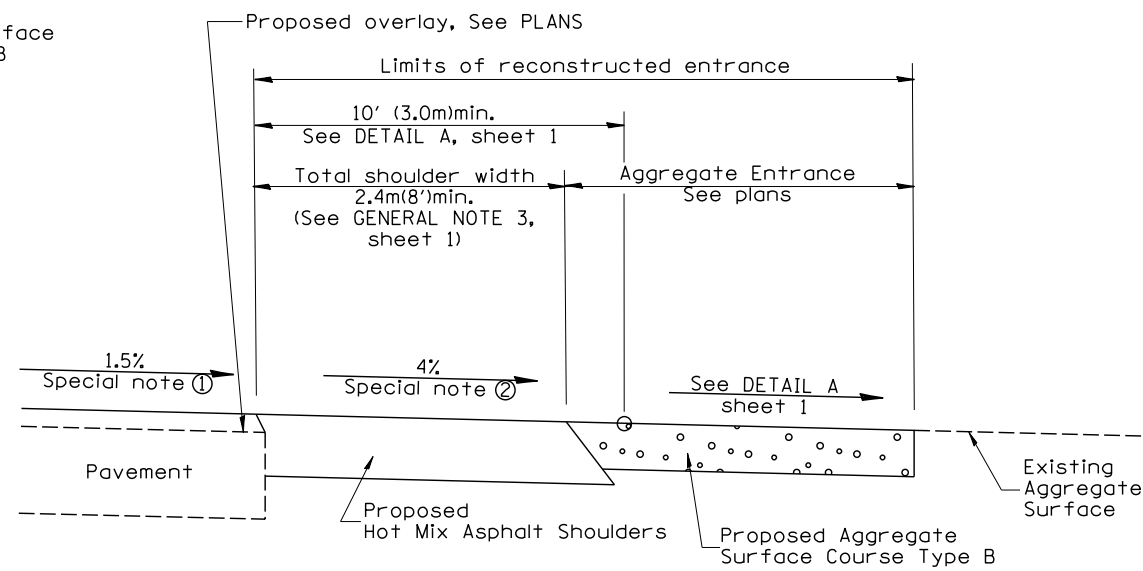
RURAL ENTRANCES FOR "3R" PROJECTS

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CADD_SID_406301:04

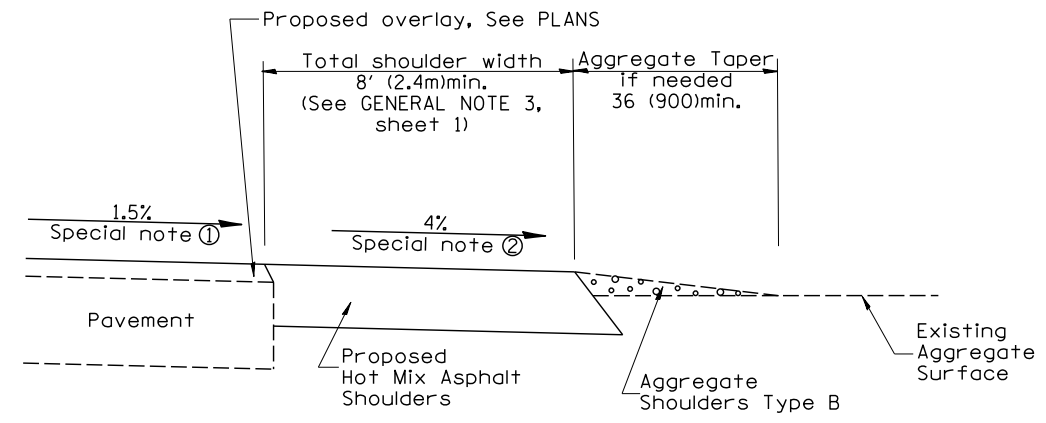
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.101) CR	KNOX	92	87
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68C65	



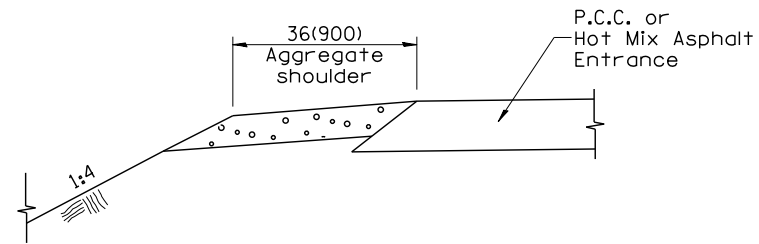
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



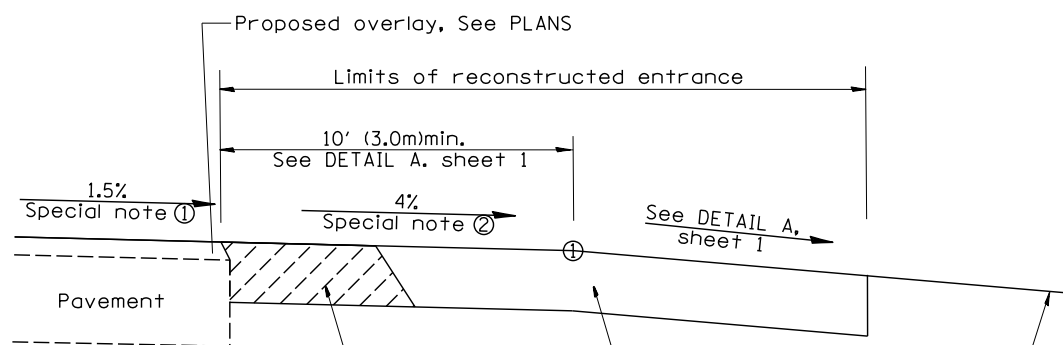
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



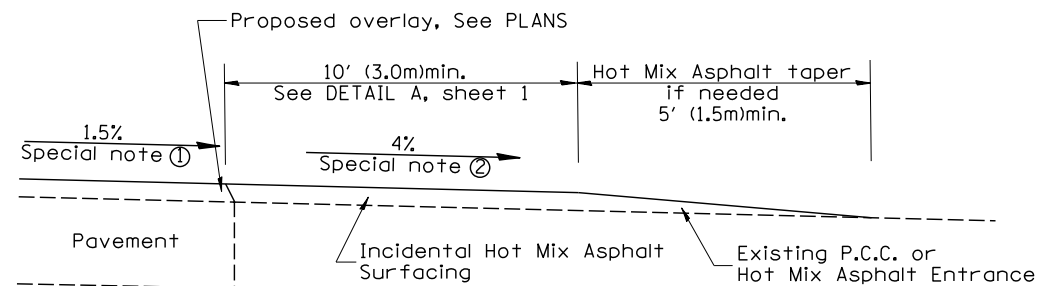
SECTION B-B
EXISTING AGGREGATE ENTRANCE



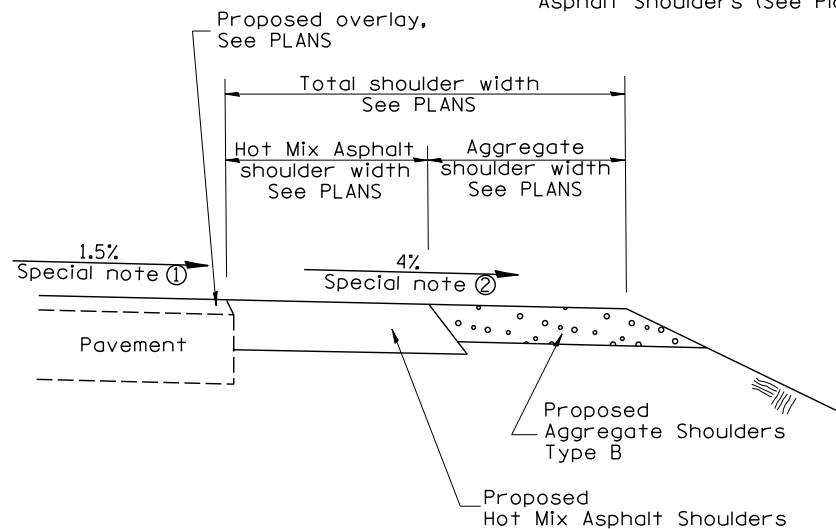
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



SECTION D-D
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION D-D
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION E-E
MAINLINE SHOULDER TREATMENT

SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL ENTRANCES FOR "3R" PROJECTS

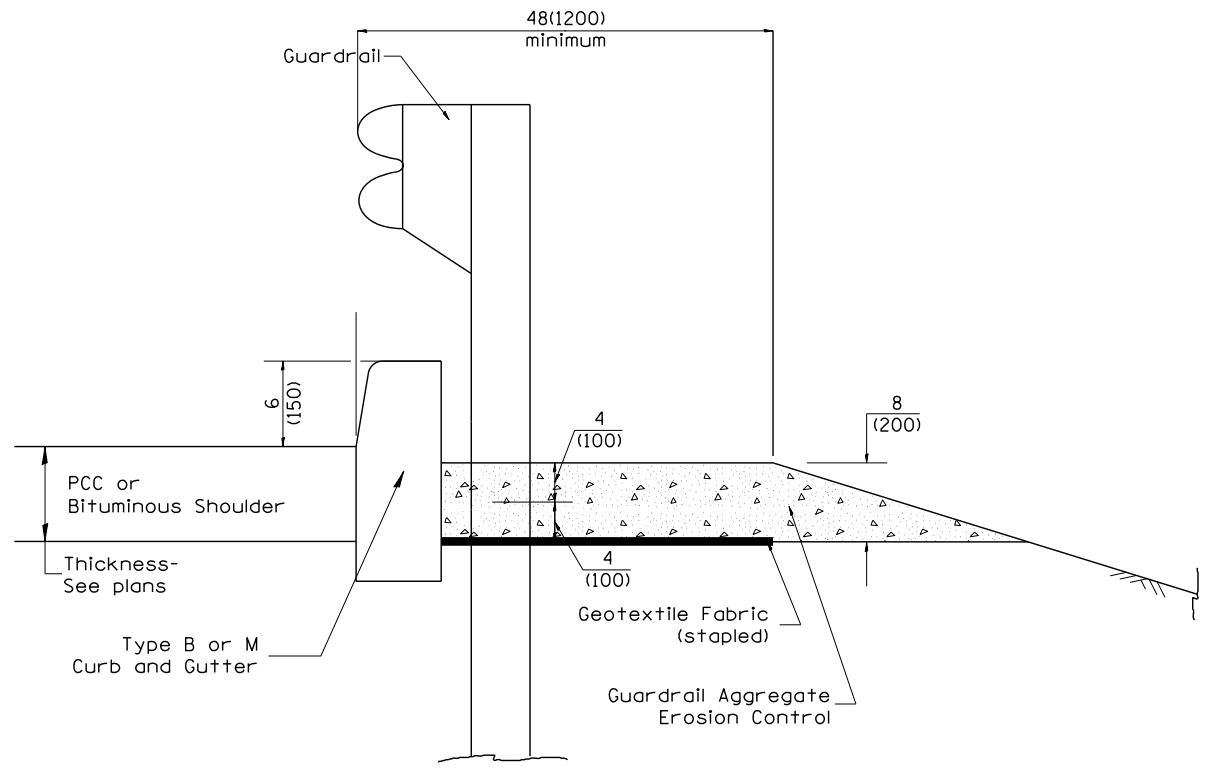
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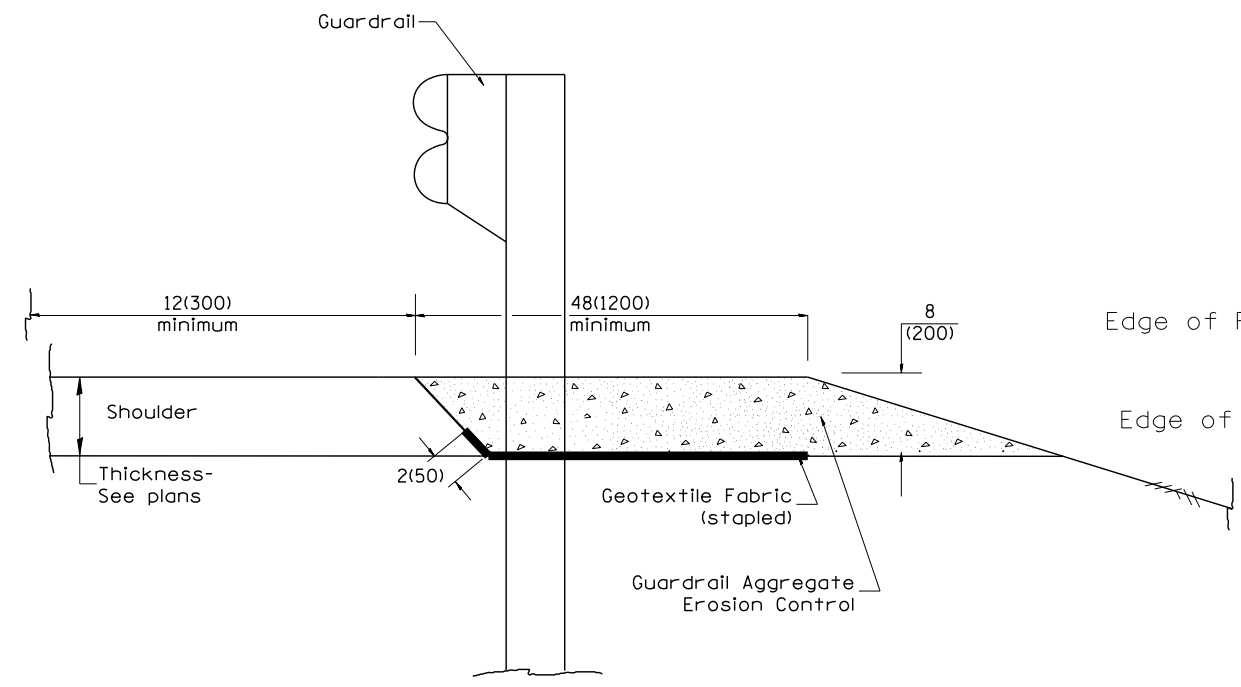
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6.10) CR	KNOX	92	88
CONTRACT NO. 68C65			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT	

DESIGNER NOTES:

1. CONSIDER USING A "B" CURB PAY ITEM AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE EQUAL TO OR GREATER THAN 1/2" AND AT INLETS. (INCLUDE DISTRICT SPECIAL PROVISION)
2. USE "GUARDRAIL AGGREGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1/2" (INCLUDE DISTRICT SPECIAL PROVISION).
3. INCLUDE STATE STANDARD 610001, IF APPLICABLE.
4. INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS AS NEEDED: SLOPE DRAINS FOR EXPOSED PIPES; SLOPE DRAINS FOR BURIED PIPES; SEEPAGE COLLARS FOR BURIED PIPES
5. SEE PAGE COLLARS FOR EXPOSED PIPES; CONCRETE THRUST BLOCKS AND PIPE ELBOW.
6. INCLUDE DISTRICT SPECIAL PROVISION - "AGGREGATE QUALITY" FOR PROJECTS LOCATED IN THE WESTERN AREA OF THE DISTRICT - APPROX. DIVIDING LINE IS IL 97.
7. DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES.
8. OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES.



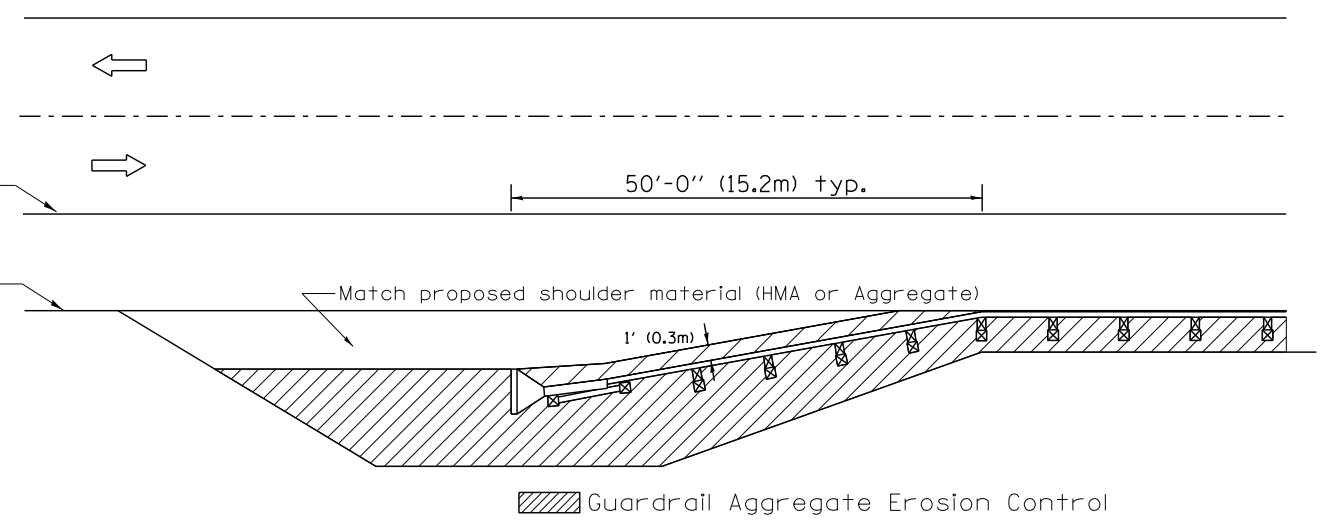
TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



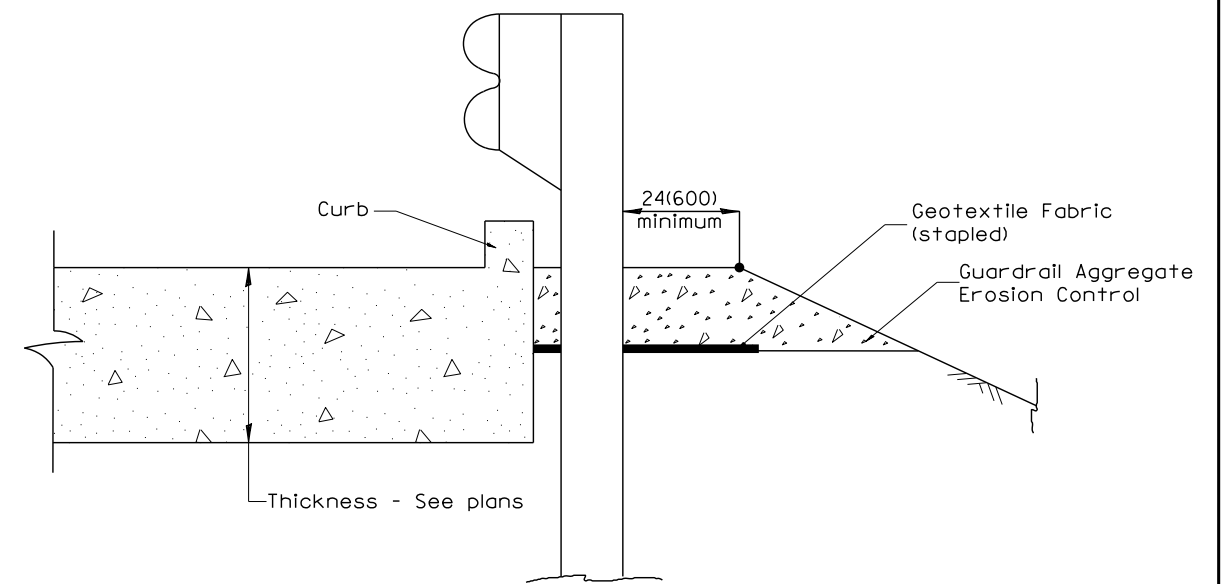
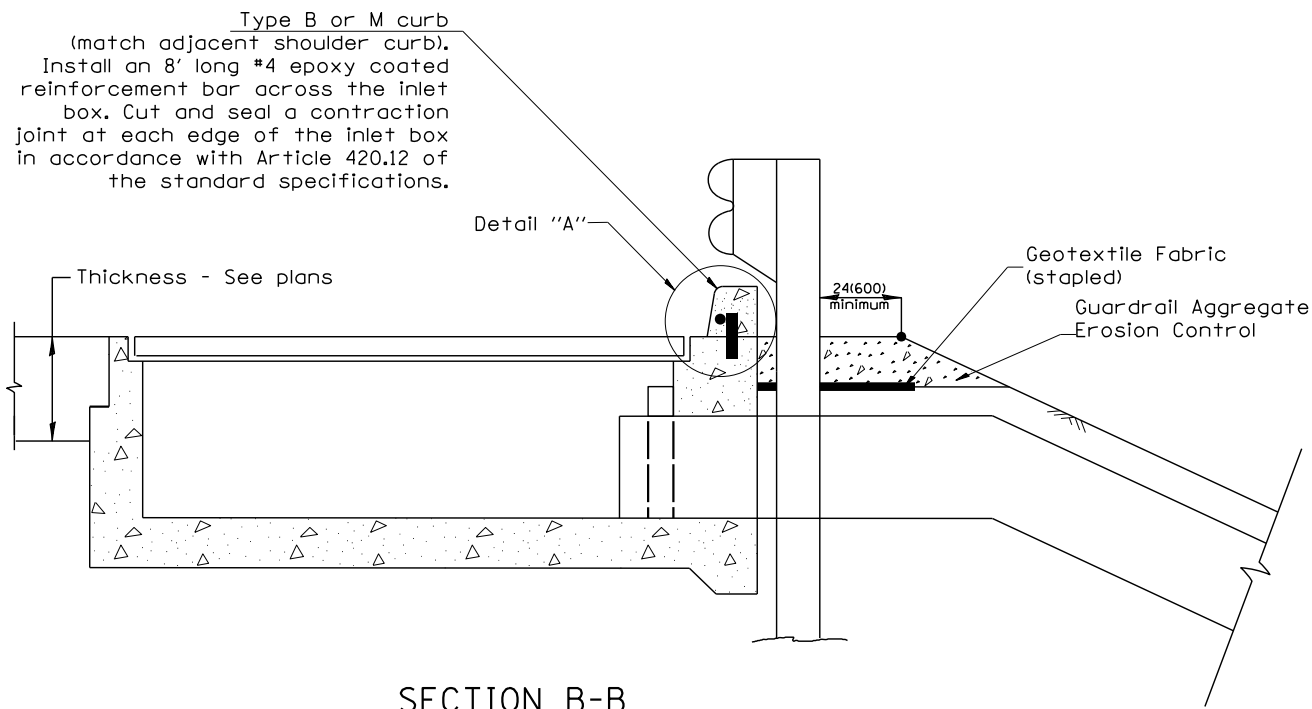
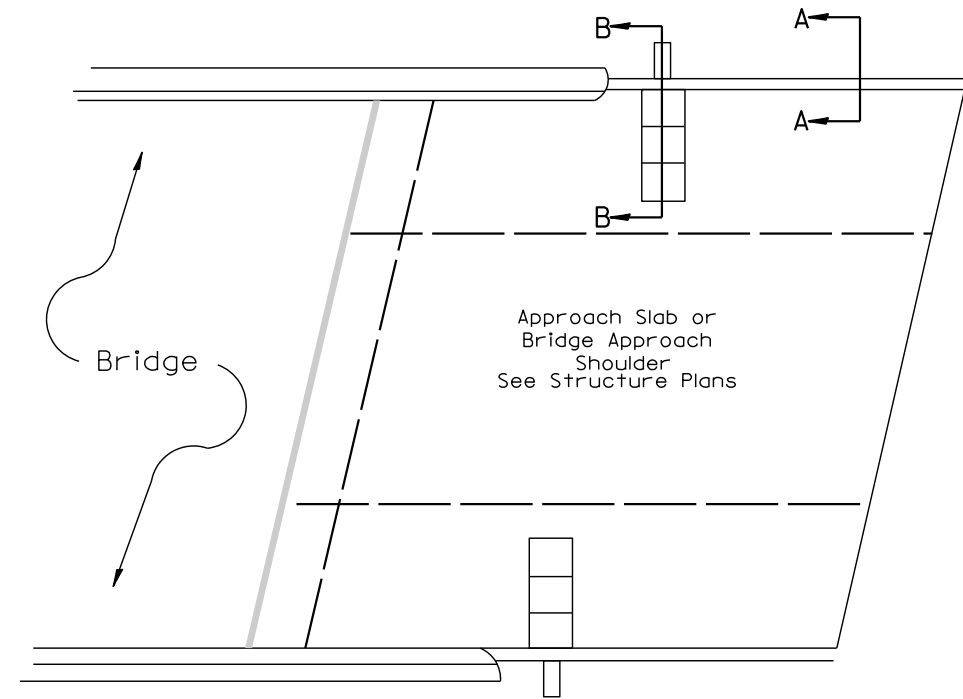
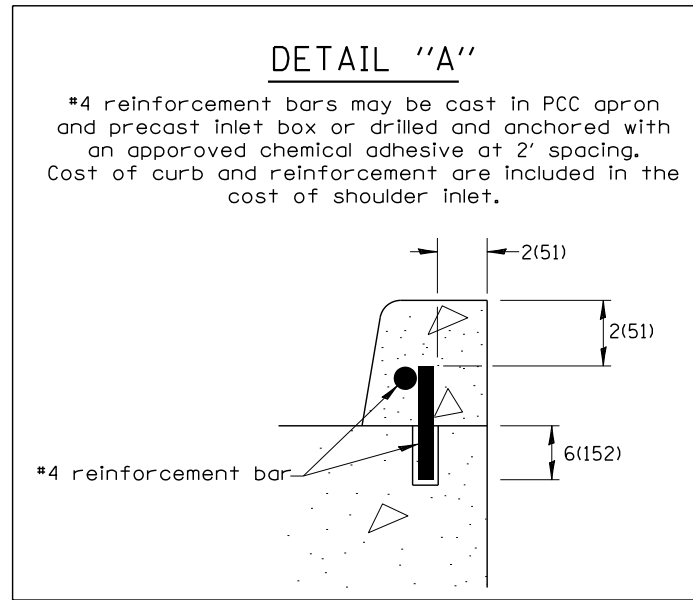
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	BENUM_C-22.01_NEW_REVISION_BOX	J.R.	3-7-11	Added Detail showing plan view	R.D.
03-01-97	CORRECT_SID_NUMBERS_IN_NOTES_PG_2	J.A.	8-10-12	Revised curb "B" and aggregate	R.D.
11-03-00	CORRECTION_TO_NOTES	M.A.	7-15-15	Addressed shoulder inlet curb	R.D.
10-16-06	REVISED_TO_2007_SPEC.	M.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS
NOT TO SCALE
SHI, J OF 2
CADD SID. 630101:04

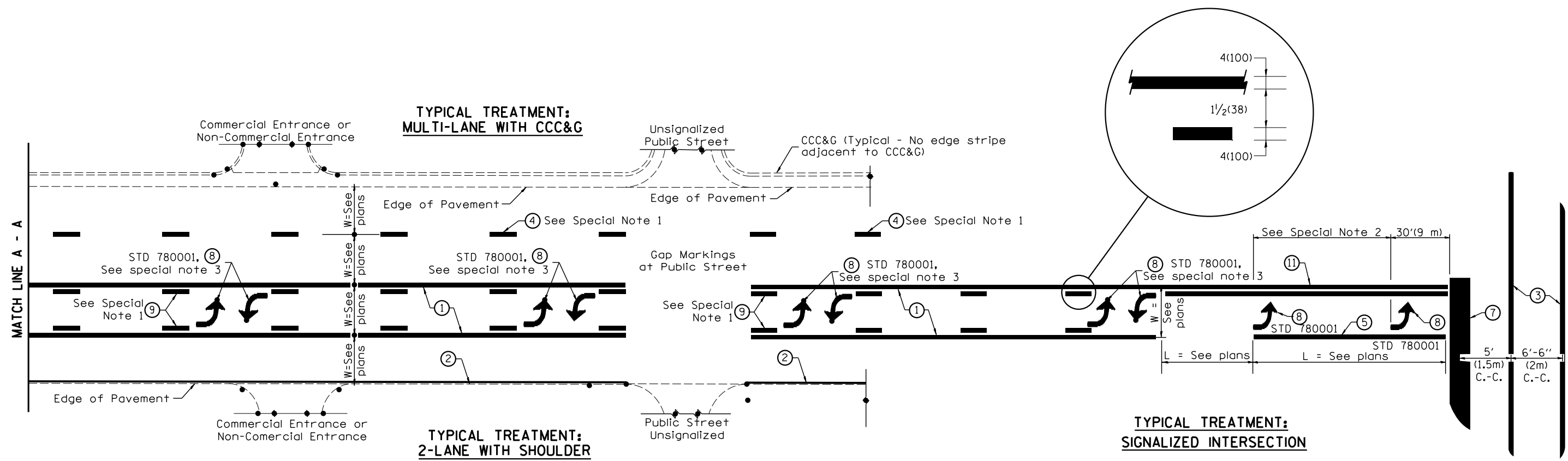
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	(6,10) CR	KNOX	92	89
CONTRACT NO. 68C65			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



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

FILE NAME	USER NAME = \$USER\$	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL EROSION CONTROL TREATMENTS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN	REVISED			379	(6.10) CR	KNOX	92	90	
	PLOT SCALE = \$SCALE\$	CHECKED	REVISED			SHI. 2 OF 2 CADD SID. 630101-04					
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE	REVISED			CONTRACT NO. 68C65					
					NOT TO SCALE		SHEET ___ OF ___ SHEETS		STA. _____		FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

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



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)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

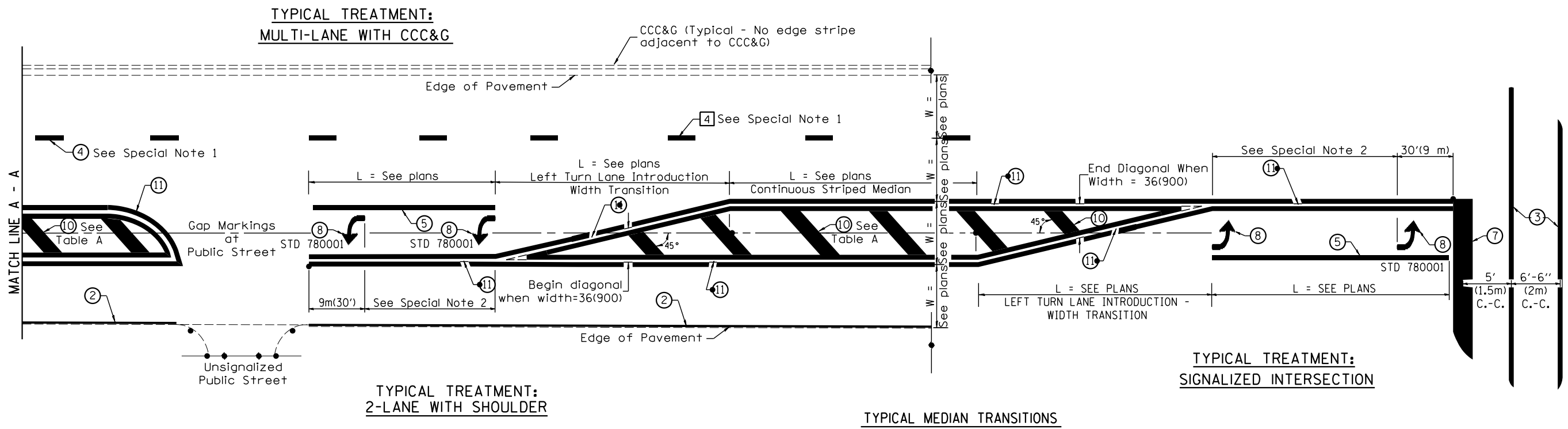
SPECIAL NOTES

- Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
- 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.
- 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

- Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
- See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
- Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
- Areas are grooved 1" beyond each edge for the following symbols:
Through Arrow= 14.8 sq. ft.
Large Left or Right Arrow= 21.9 sq. ft.
2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
Wrong Way Arrow= 29.5 sq. ft.
Railroad Crossing Symbol= 69.8 sq. ft.
(For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

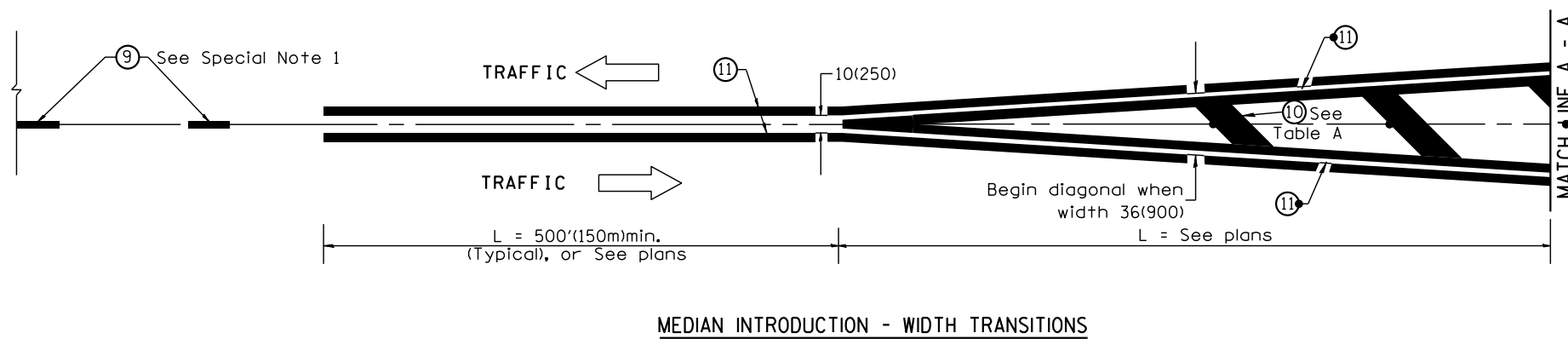
01-01-97	BENUM_E=8.03_NEW_REVISION_BOX	J.P.	10-16-06	REVISED_TO_2007_SPEC.		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
02-07-97	ADD_BI_DIRECTIONAL_DIMENSION	J.A.	2/29/16	ADDED_GROOVING_AREAS	B.D.			379	(6.10) CR	KNOX	92	91	
10-97	COBBECT_BI_DIRECTIONAL_DIMENSION	J.A.						SHI_I_0E_2 CADD_SID_780001-04					
08-02	ADD_CROSSWALK_DIMNS_WITH_I.S.	M.A.						CONTRACT NO. 68C65					
							NOT TO SCALE	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
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.