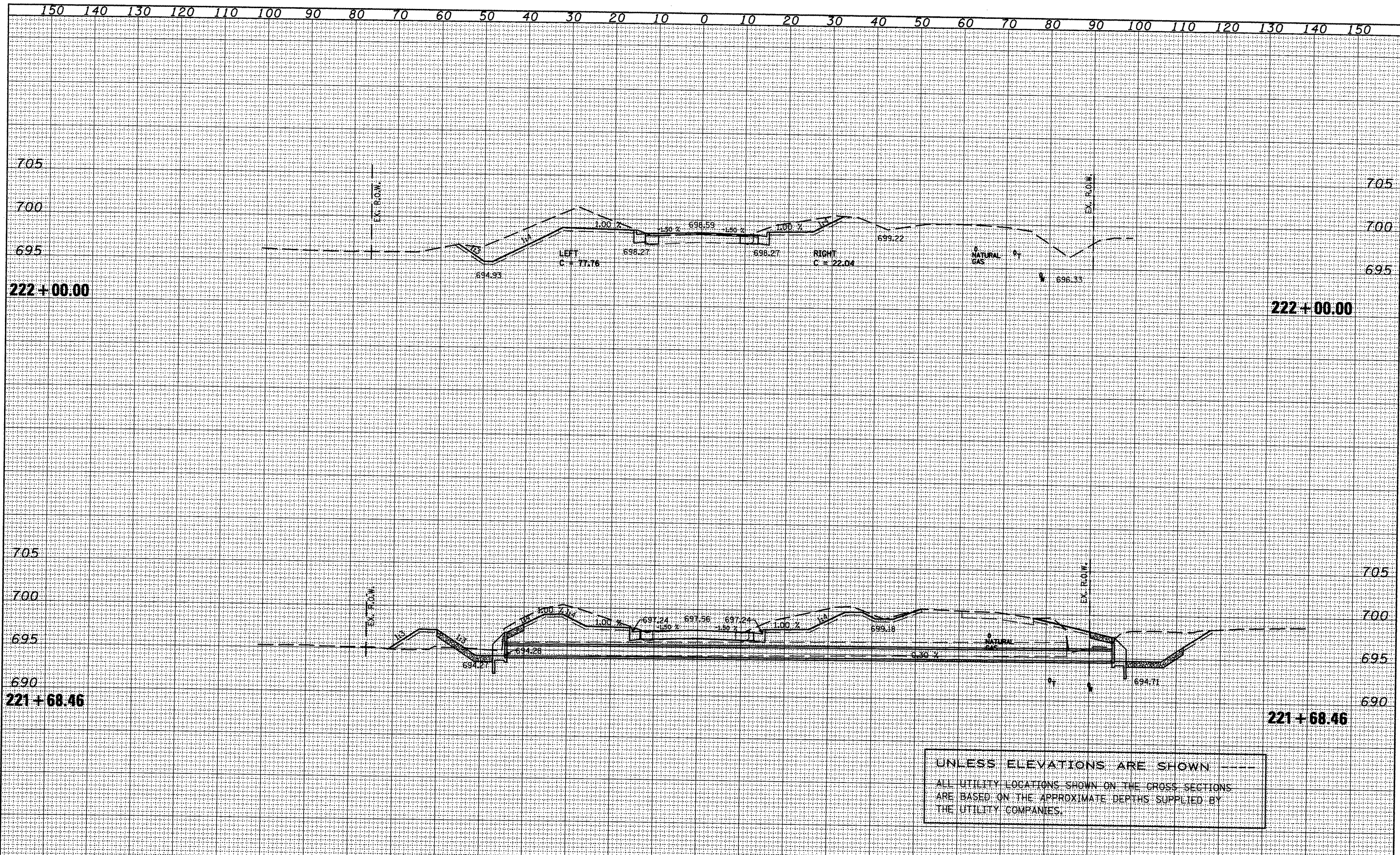


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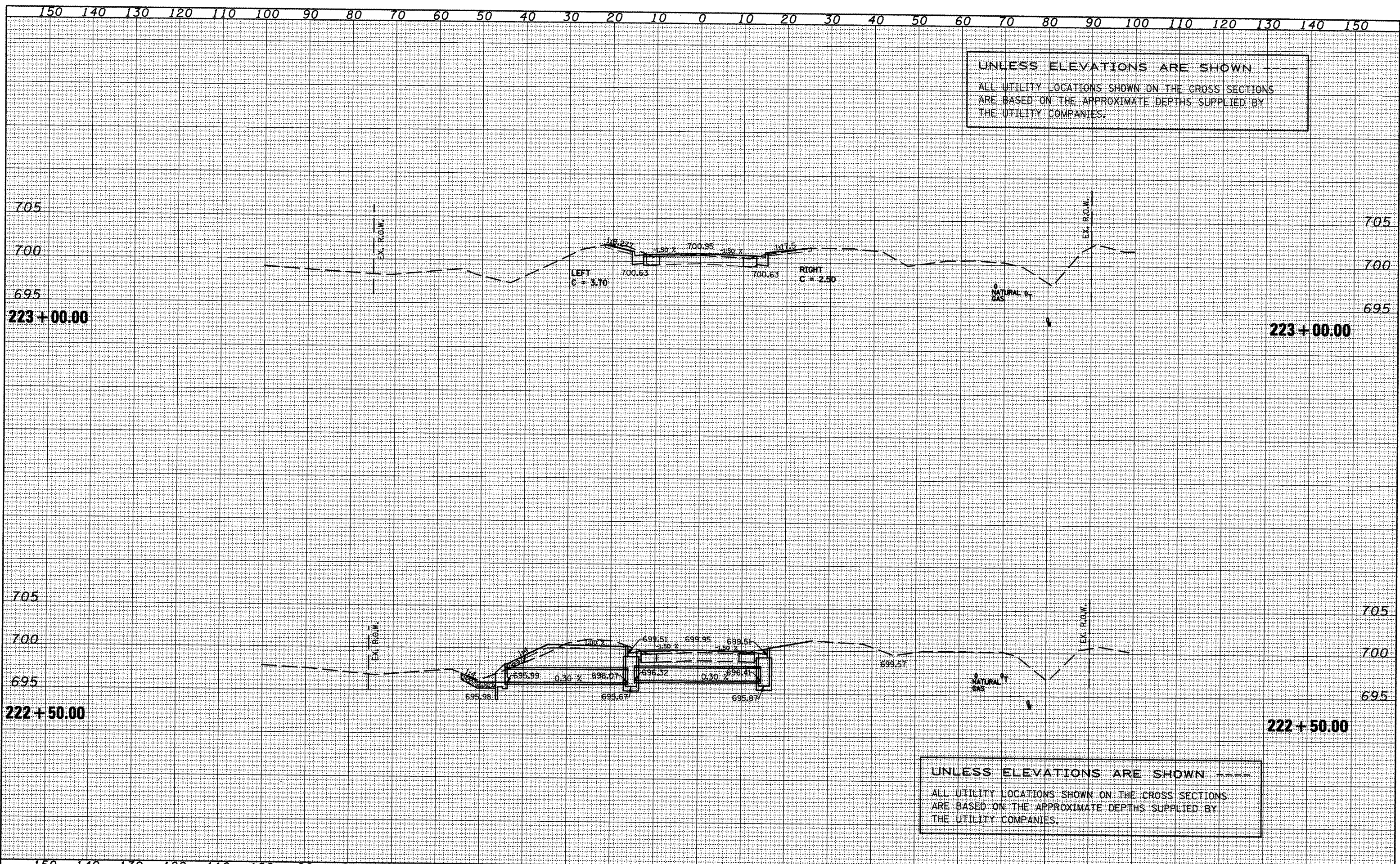
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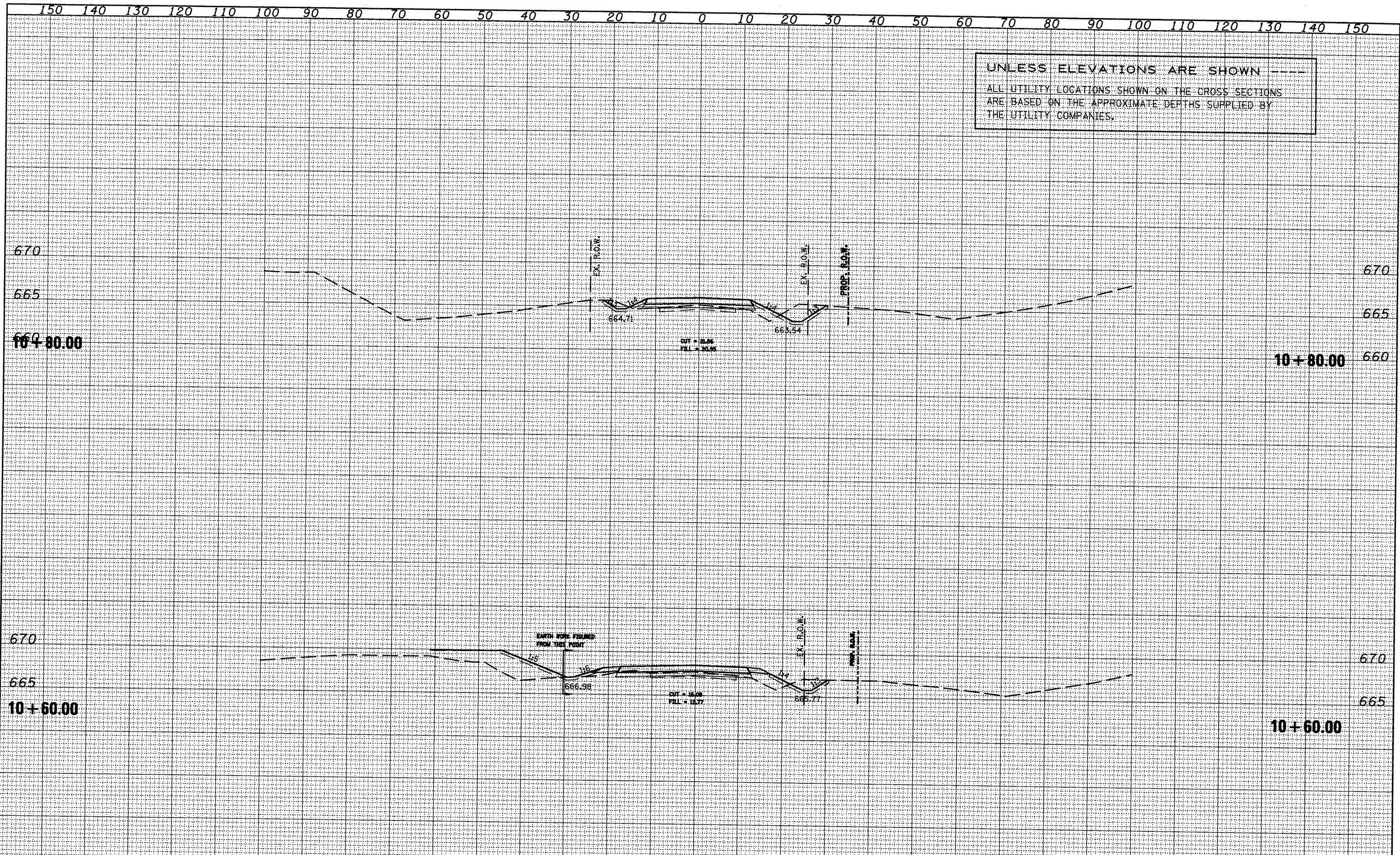
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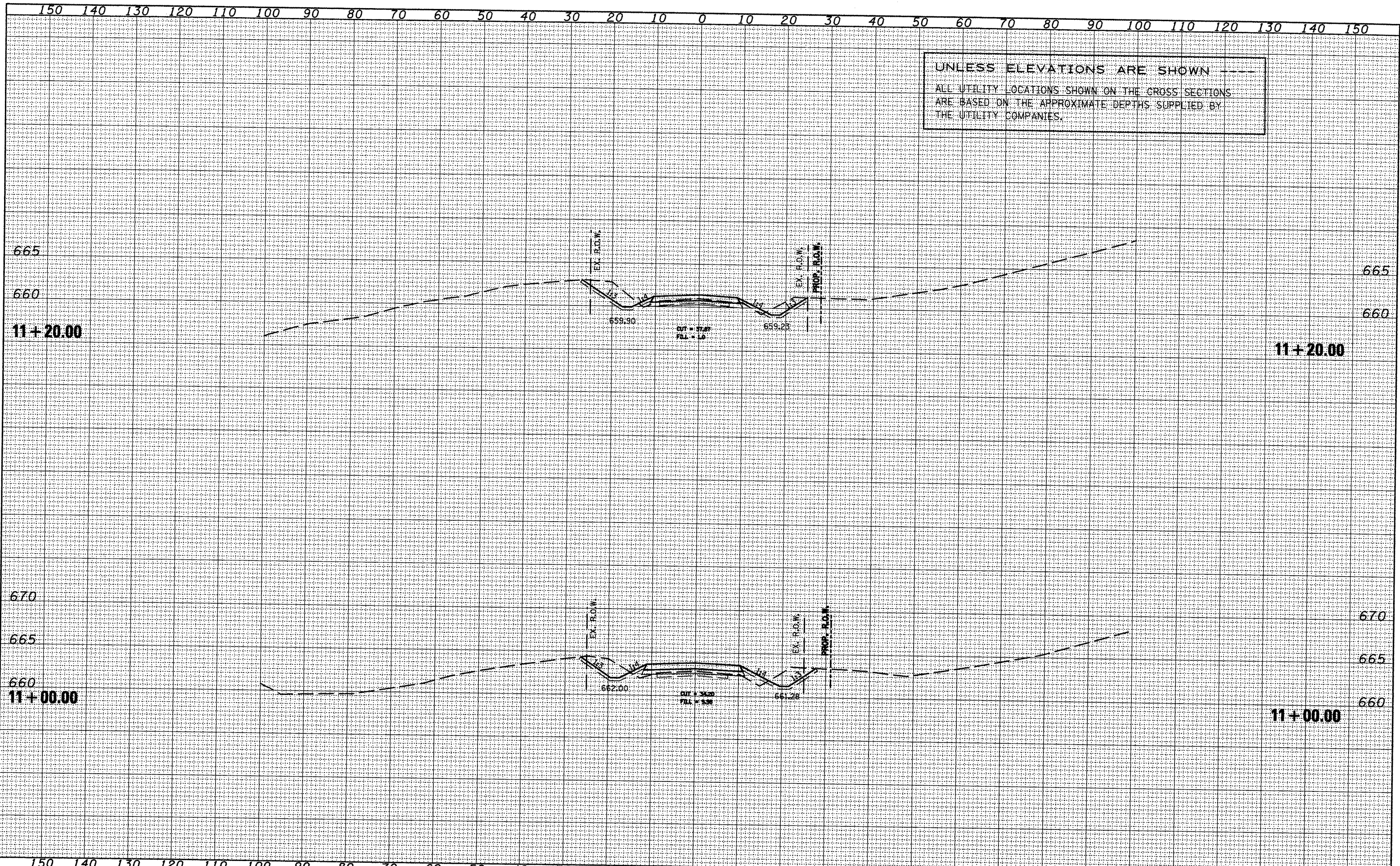


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PLLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	REVISED -		F. EAP. RTE. 665	SECTION (136,137)W&RS-31098R-2	COUNTY HENDERSON	TOTAL SHEETS 404	SHEET NO. 404
PLLOT DATE = 1/21/2009	DATE -	REVISED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 10+60.00 TO STA. 10+80.00	CONTRACT NO. 88773	
								ILLINOIS FED. AID PROJECT	

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USER NAME = ghidraam	DESIGNED -	REVISED -
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PLLOT DATE = 1/21/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEROAD NORTH 1700E

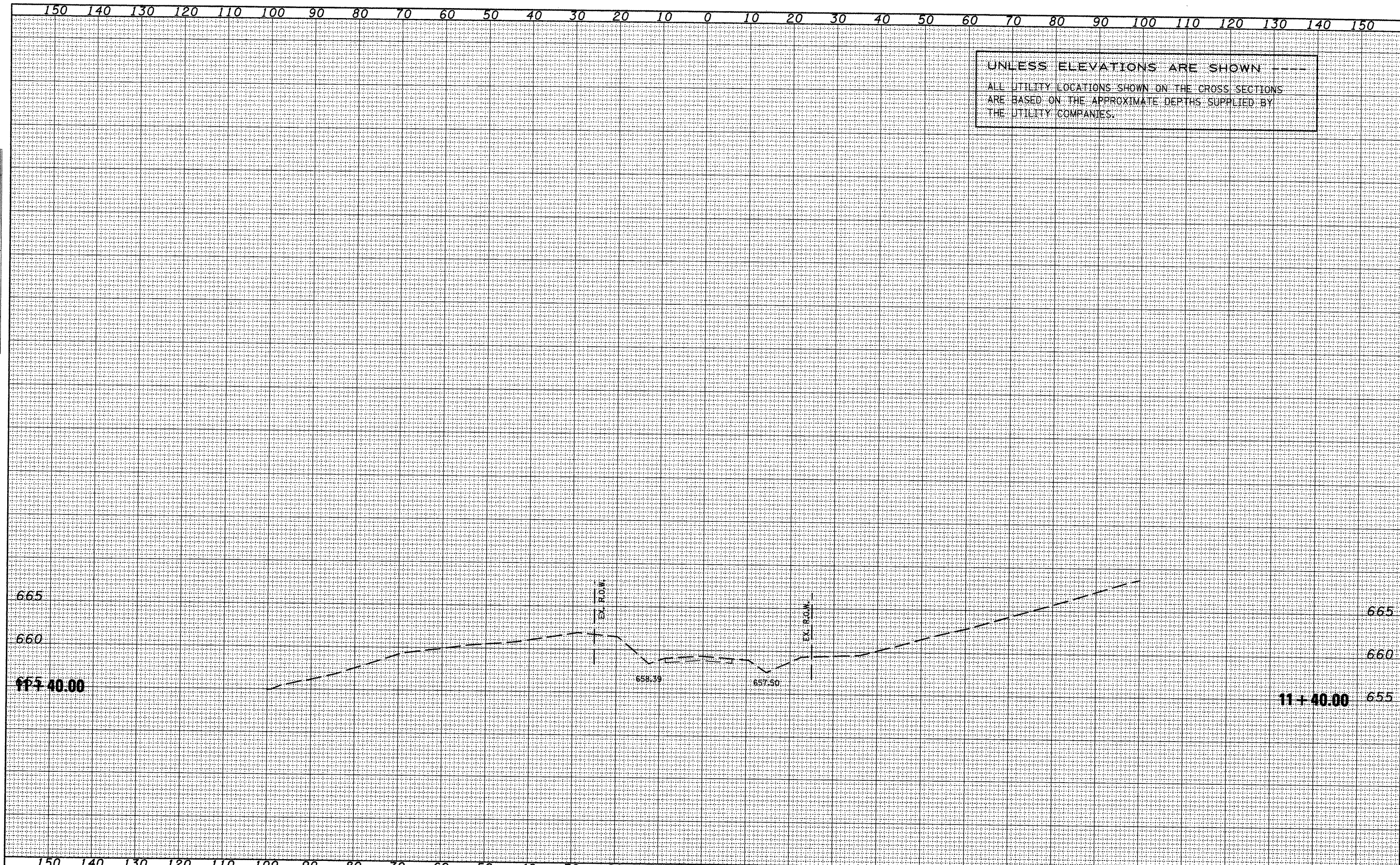
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F. & A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3+109BR-2	HENDERSON		405
CONTRACT NO. 88773			ILLINOIS FED. AID PROJECT	

FINAL SURVEY SURVEYED PLOTTED BY DATE
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ORIGINAL SURVEY SURVEYED PLOTTED BY DATE
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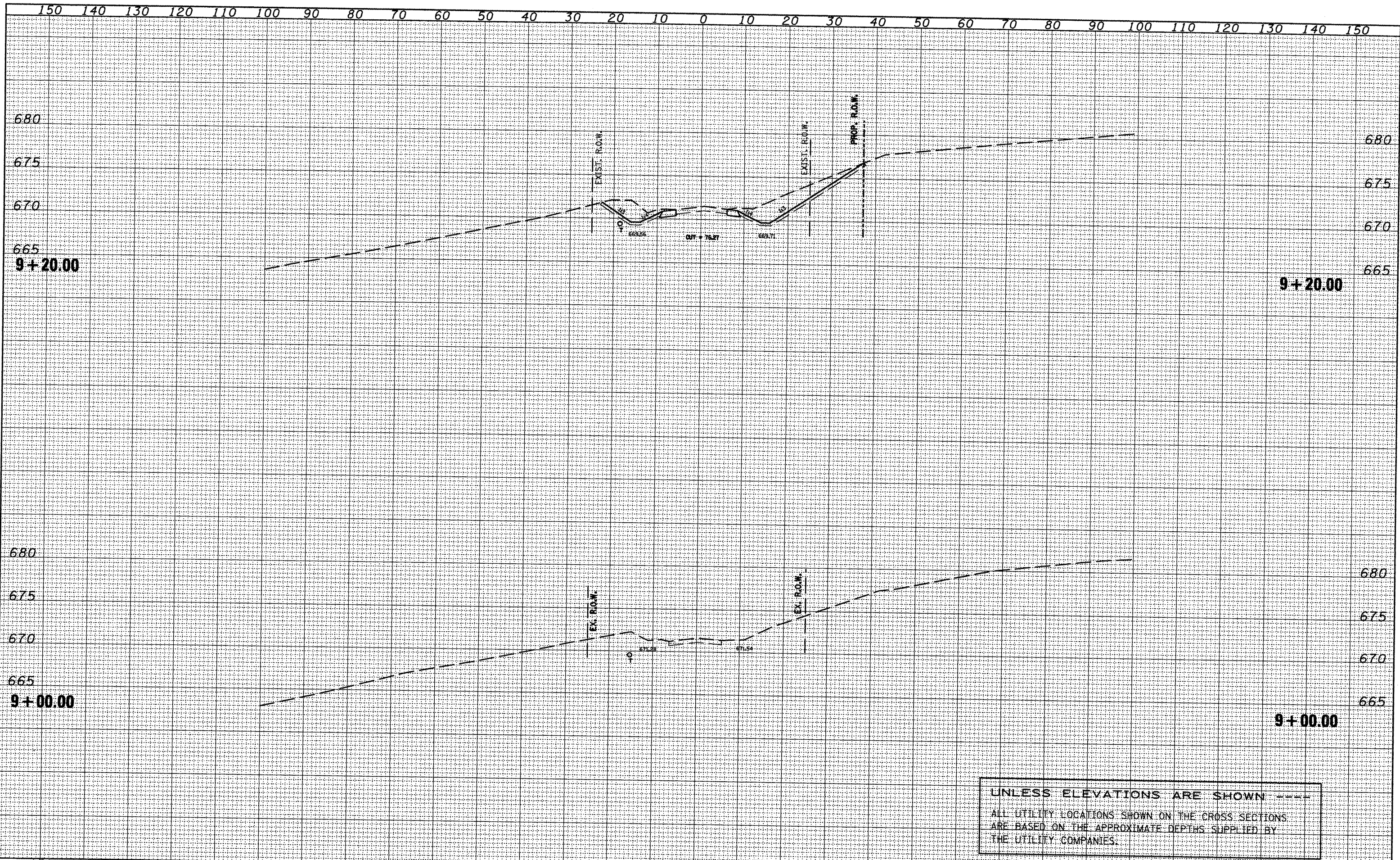
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	PLT DATE = 1/21/2009	CHECKED -	REVISED -								
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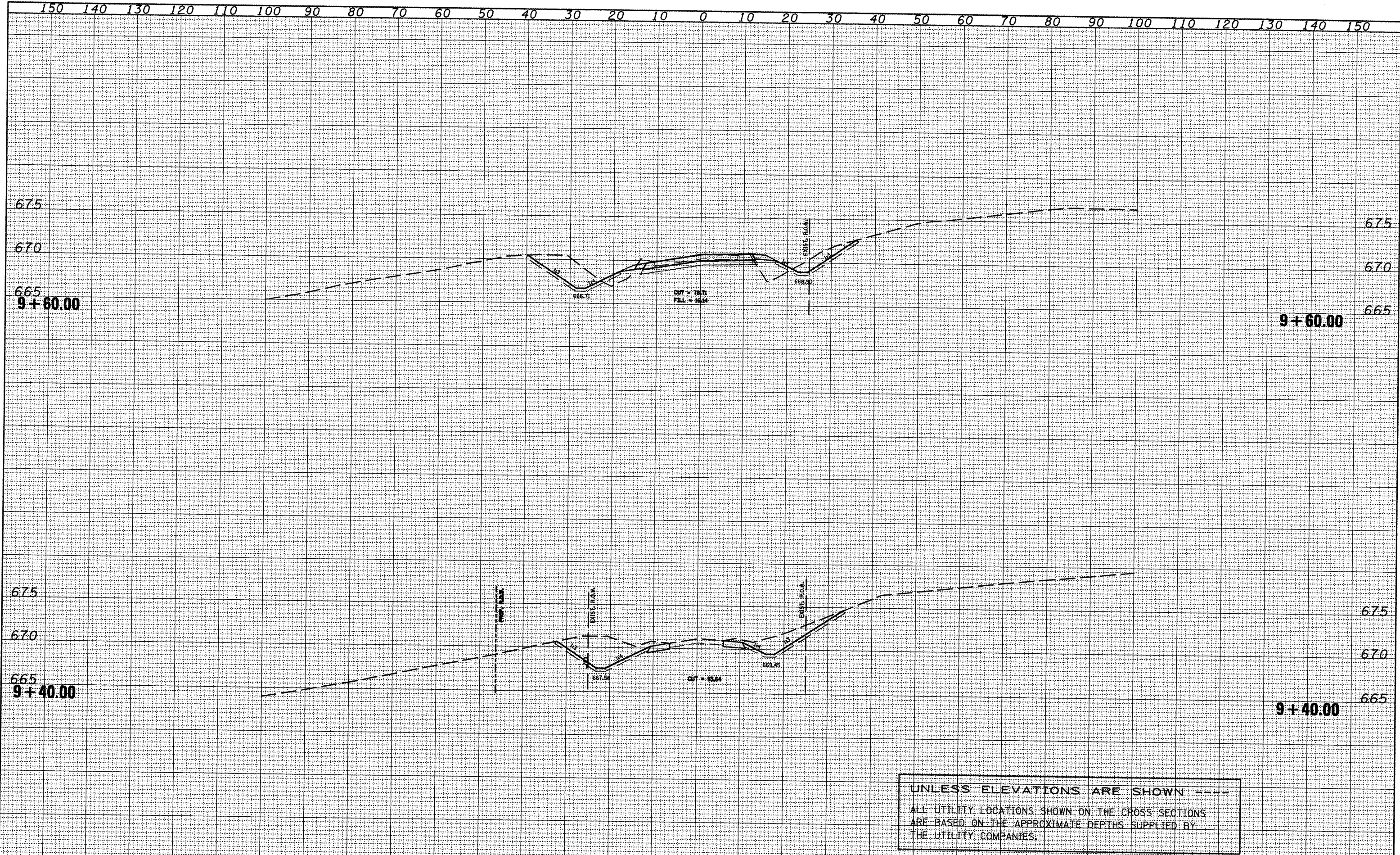


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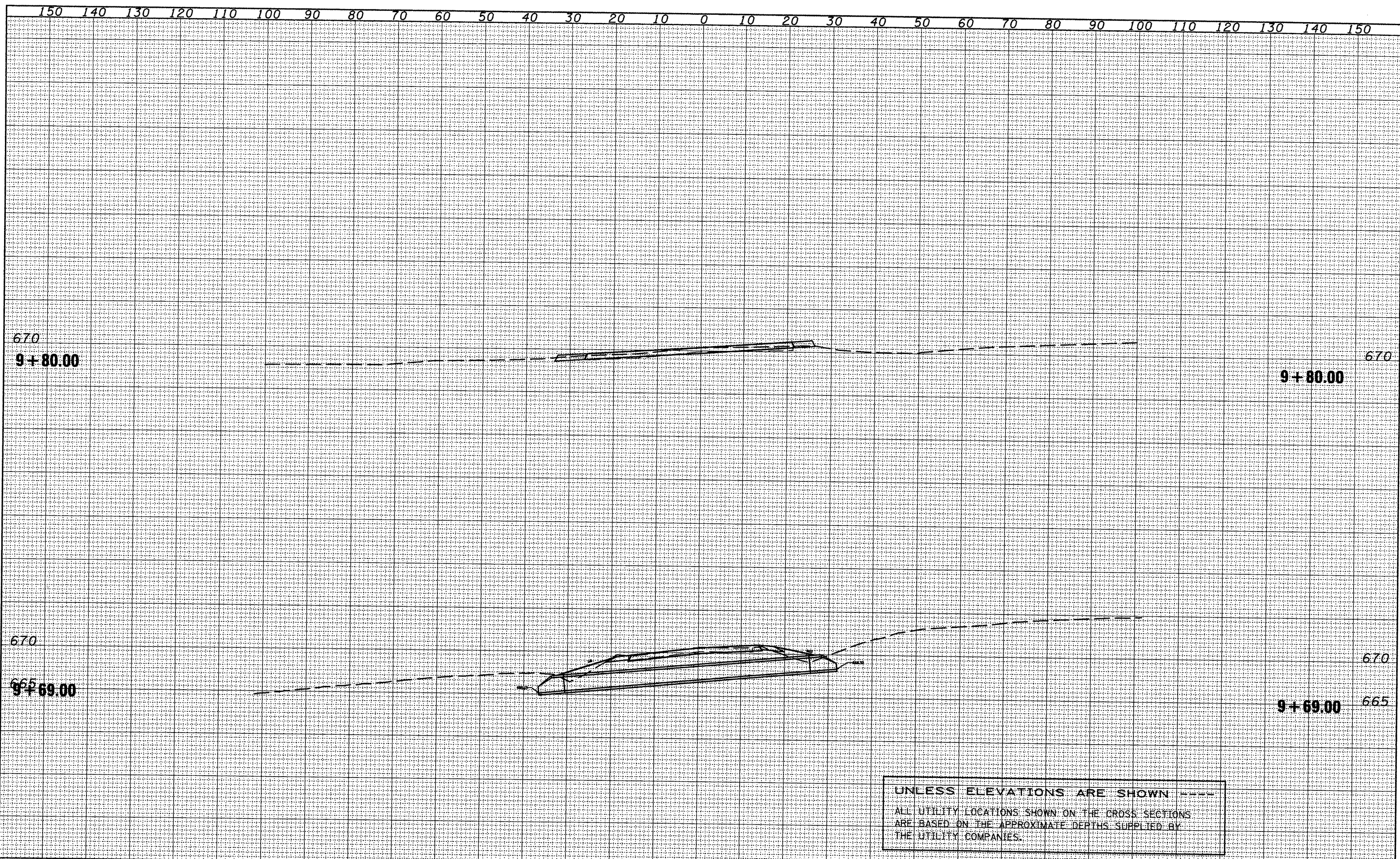
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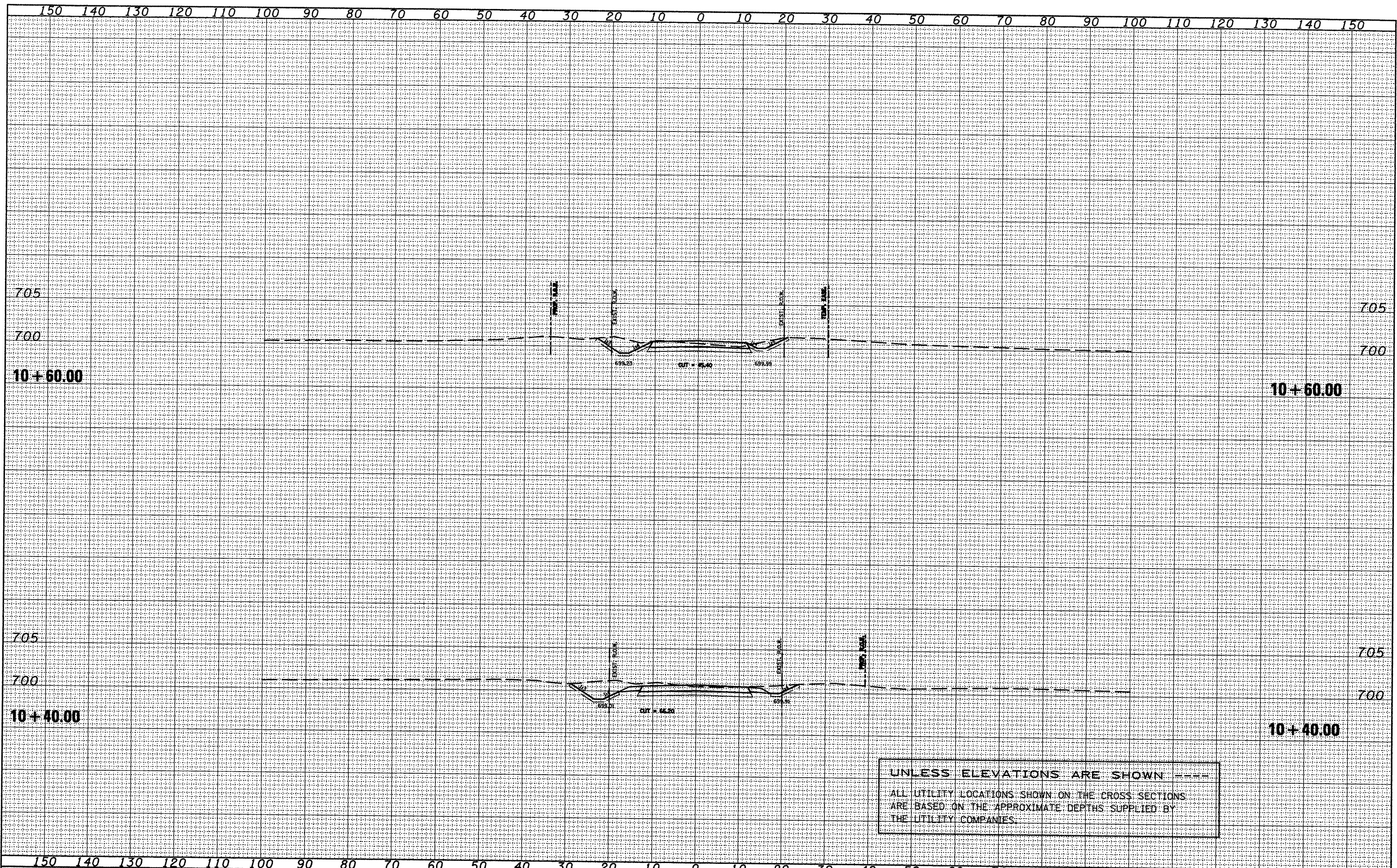
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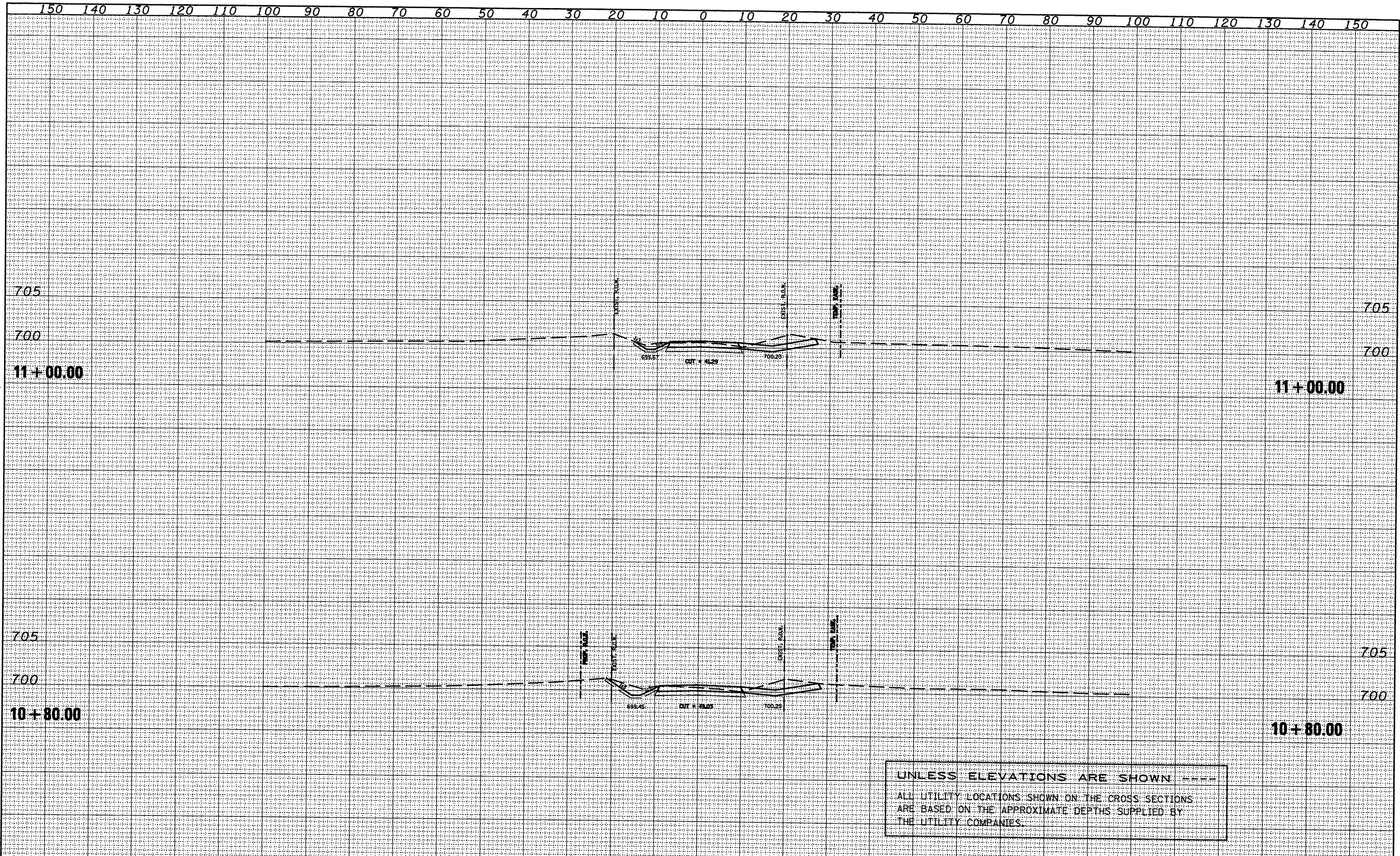
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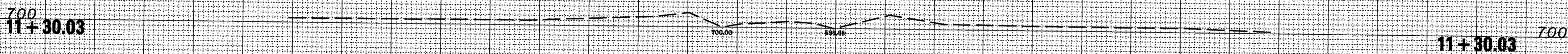
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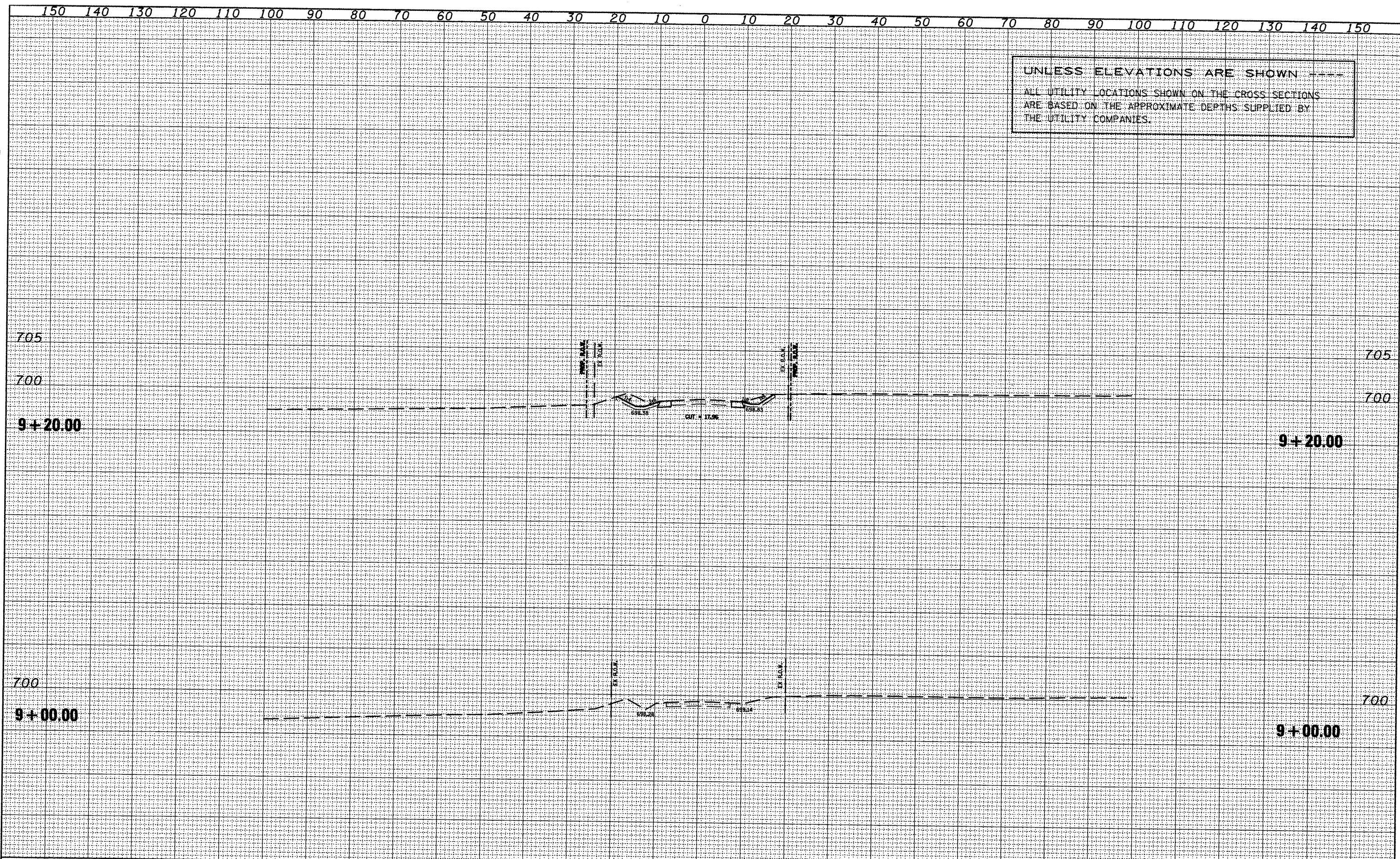
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		DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. 11+30.03	TO STA. 11+30.03	CONTRACT NO. 88773		
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									

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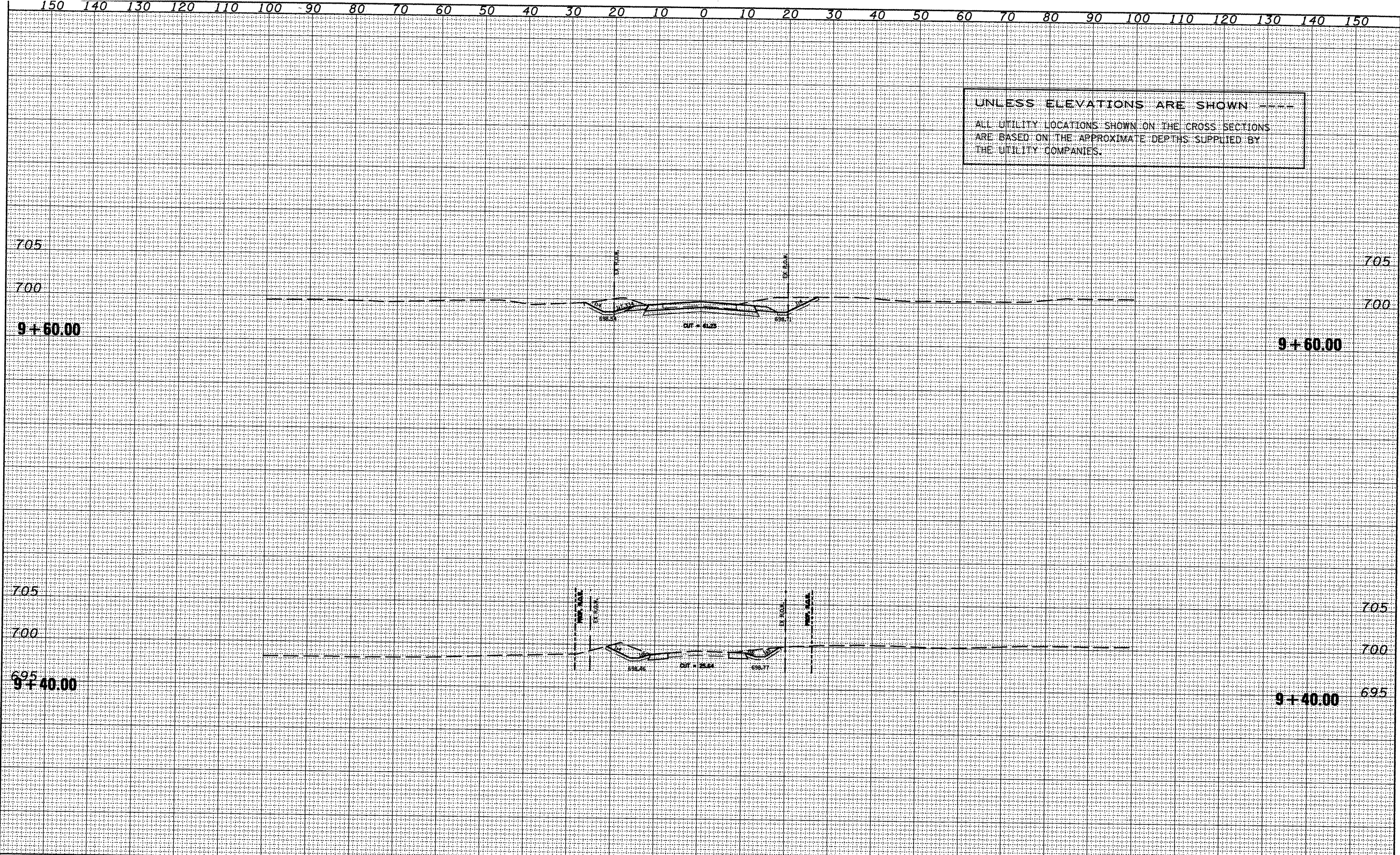


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		DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. 9+00.00 TO STA. 9+20.00	CONTRACT NO. 88773		
		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
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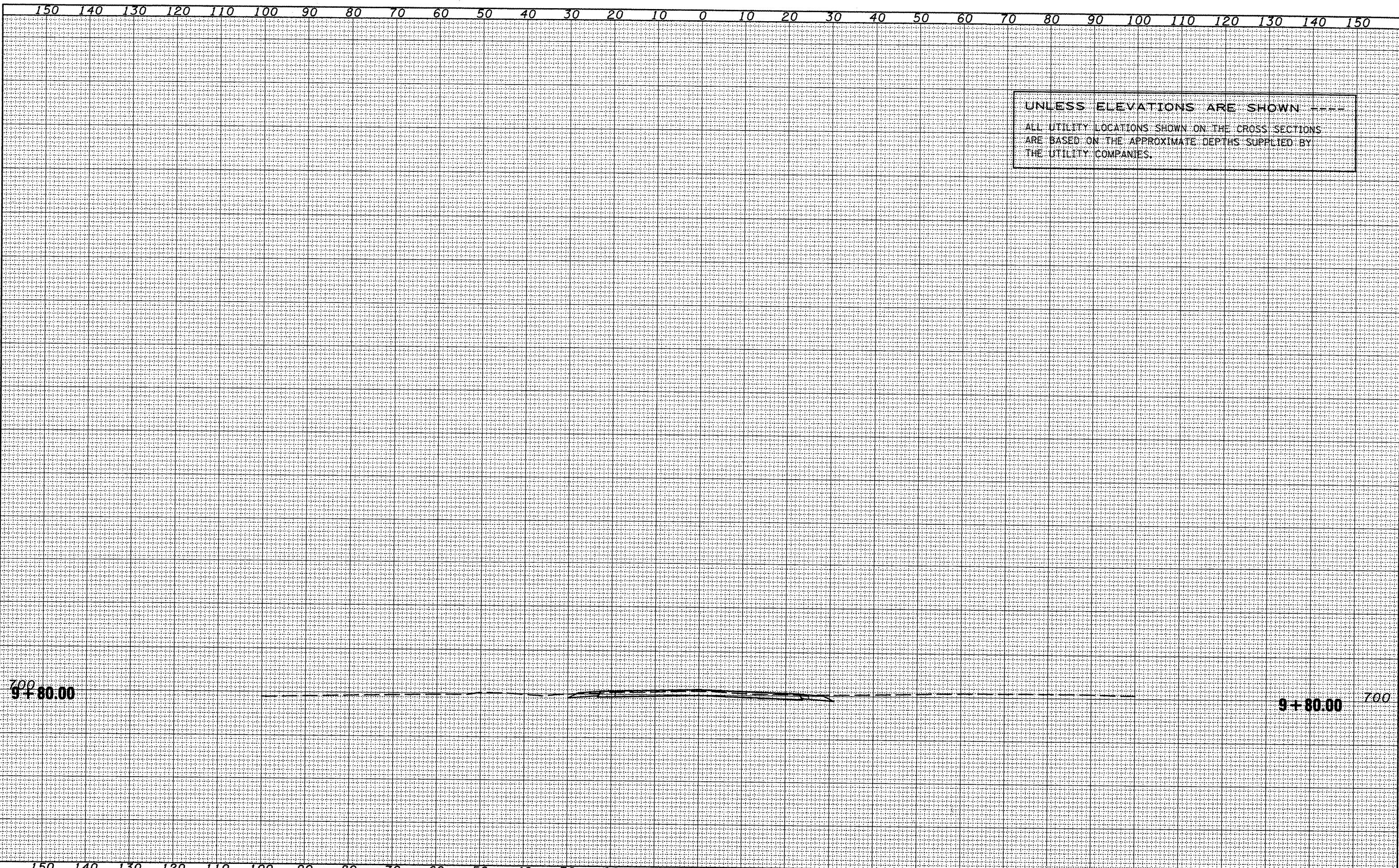
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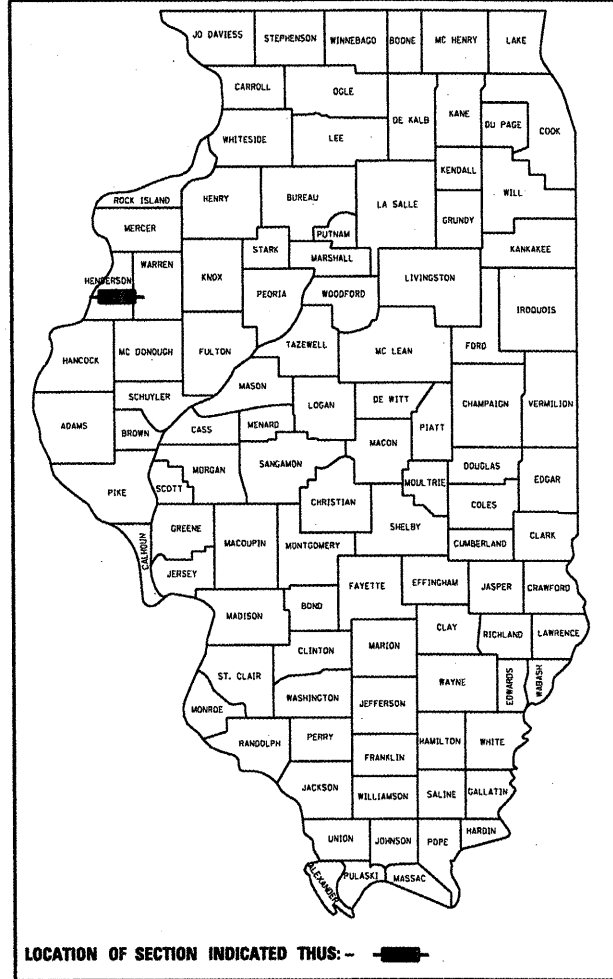
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		DRAWN -	REVISED -		665	(136.137)W&RS-3;109BR-2	HENDERSON	915			
		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 9+80.00 TO STA. 9+80.00		CONTRACT NO. 88773				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3;136R;109BR-2	HENDERSON	490	410
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 88773		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

D-94-068-96



LOCATION OF SECTION INDICATED THUS: —

**PROPOSED
HIGHWAY PLANS**

FAP ROUTES 665 & 534 (IL 116 & IL 94)
SECTION (136,137) W&RS-3;136R;109BR-2
PROJECT
TYPE OF IMPROVEMENT 3R
HENDERSON COUNTY

VOLUME II

C-94-347-96

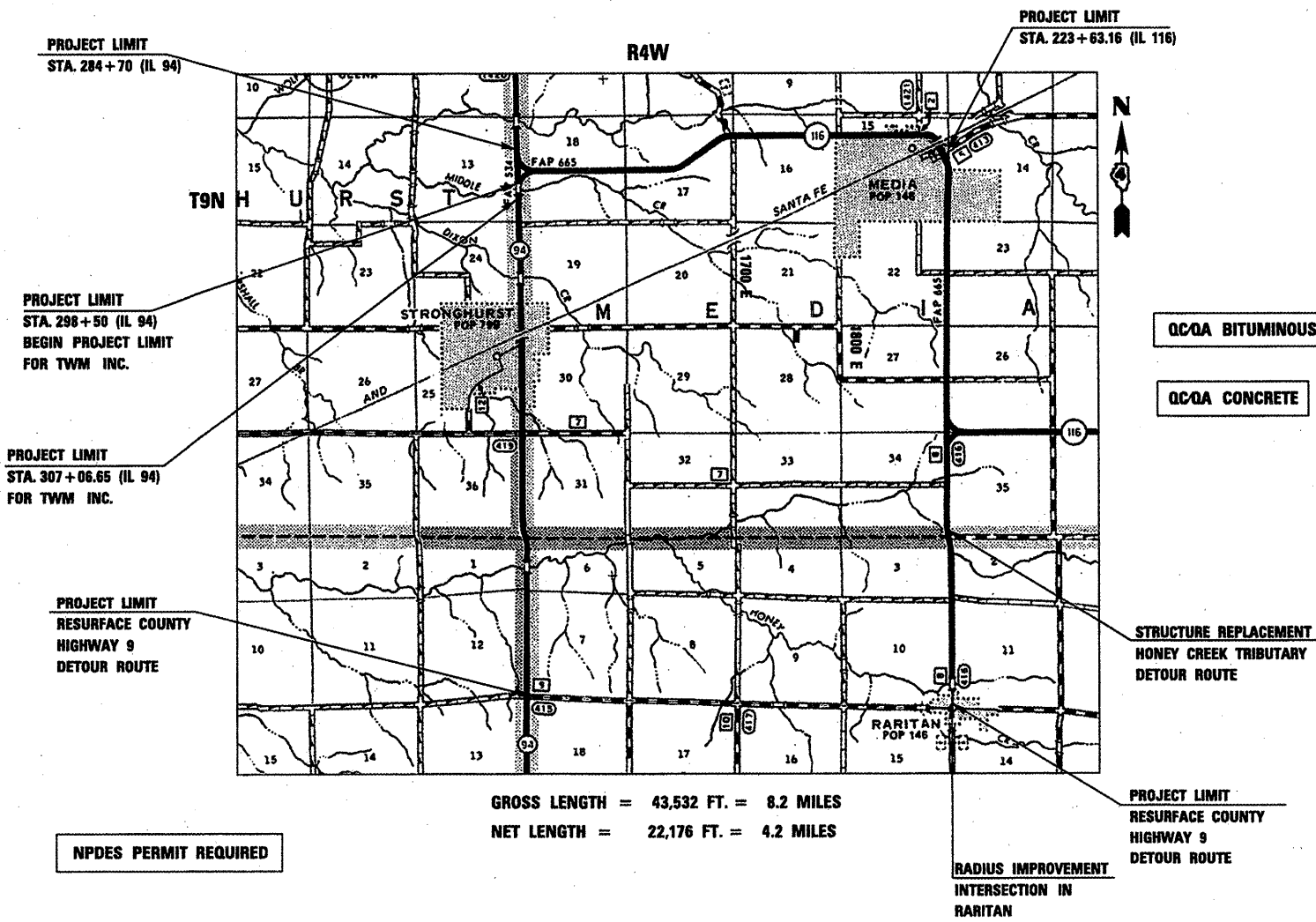
FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

FAP ROUTE 665 (IL 116) MINOR ARTERIAL AADT (2006) = 800 (ACTUAL) 1,000 (DESIGN) MU = 8% SU = 5%	FAP ROUTE 534 (IL 94) MINOR ARTERIAL TRUCK ROUTE CLASS III AADT (2006) = 1,750 MU = 5% SU = 4%
---	---

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



- QC/QA BITUMINOUS
- QC/QA CONCRETE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

PROJECT ENGINEER: RICH DOTSON (309)671-3455
PROJECT MANAGER: RON NOLTE (309)671-3470
CATALOG NO. 031267-00D
CONTRACT NO. 88773

GENERAL NOTES

UTILITIES - LOCATIONS/INFORMATION ON PLANS

UNLESS NOTED OTHERWISE, THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

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

1. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM NGVD29.

PROPERTY OWNER ACCESS REQUIREMENT

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURE.

TEMPORARY MATERIAL REQUIREMENTS - UTILITY AND DRIVEWAY CROSSING

INCIDENTAL BITUMINOUS SURFACE SHALL BE USED FOR ALL TEMPORARY SIDE ROAD CROSSINGS. AGGREGATE SURFACE COURSE MAY BE USED FOR ALL DRIVEWAY CROSSINGS EXCEPT DURING WINTER SHUTDOWN IN ACCORDANCE WITH ARTICLE 107.09.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

AGGREGATE FOR DRIVEWAY REPLACEMENT

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS.

NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

EMBANKMENT

THE EMBANKMENT SHALL BE PLACED AS SOON AS POSSIBLE TO ALLOW FOR AS MUCH SETTLEMENT AS POSSIBLE BEFORE THE APPROACH PAVEMENT IS CONSTRUCTED.

BITUMINOUS MATERIALS PRIME COAT

AN APPLICATION RATE OF 0.0015646 TONS PER SQUARE YARD SHALL BE USED FOR THIS PROJECT.

PAVING SURFACE COURSE, CONTINUOUS

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

PAVEMENT STATION & PLACEMENT

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH WIDE, 5 INCHES HIGH AND 5/8 INCH DEEP.

THE PAVEMENT NUMBER SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL 200 FEET

BOTTOM OF NUMBERS - 6 INCHES FROM THE INSIDE EDGE OF THE PAVEMENT MARKING .

LOCATION:

- 2, 3 & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
- MULTI - LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
- RAMPS - ALONG BASELINE EDGE OF PAVEMENT
- POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER
- FORMAT - XX+XX WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS

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.

SEEDING

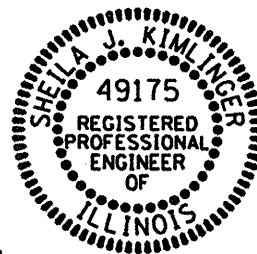
ALL EARTH SURFACES DISTURBED BY CONSTRUCTION OR AS DIRECTED BY THE ENGINEER SHALL BE SEEDED. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

- 1.6 ACRES SEEDING CLASS 2A
- 7749 SQ YD EROSION CONTROL BLANKET
- 150 POUNDS NITROGEN FERTILIZER NUTRIENT (@ 90 LBS. PER ACRE)
- 150 POUNDS PHOSPHORUS FERTILIZER NUTRIENT (@ 90 LBS. PER ACRE)
- 150 POUNDS POTASSIUM FERTILIZER NUTRIENT (@ 90 LBS. PER ACRE)

SEEDING CL 7 WILL BE USED FOR TEMPORARY EROSION CONTROL.

COMMITMENTS

- ALL DISTURBED AREAS OF EXISTING VEGETATION AND/OR TREE REMOVAL SHALL BE RE-ESTABLISHED IN ACCORDANCE WITH DISTRICT 4 RE-VEGETATION PLAN OR BRIDGE REPLACEMENT POLICY.
- THE ELEVEN (11) EXISTING STEEL "CARRIER" BEAMS (W24X90) SHALL BE DELIVERED TO THE HENDERSON COUNTY ENGINEER AT THE STRONGHURST, ILLINOIS YARD BY THE CONTRACTOR WHO PERFORMS THE BRIDGE REPLACEMENT.



Sheila Kimlinger 1/22/09
 SHEILA KIMLINGER P.E. DATE:
 LICENSE NO. 062-049175 EXPIRES: 11-30-2009

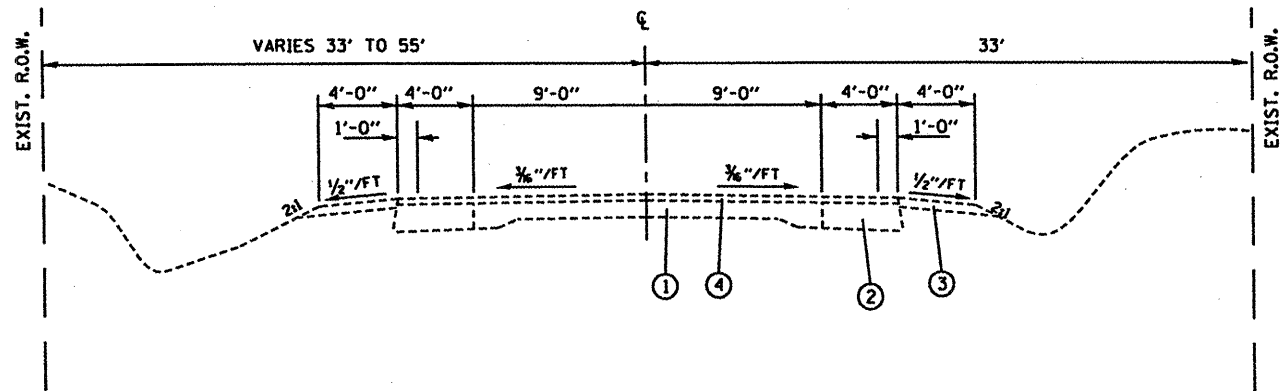
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	(136.137)W&RS-3;136R;109BR-2	HENDERSON	490	417
			CONTRACT NO. 88773	

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		CHECKED	SJK
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		REVISION	-



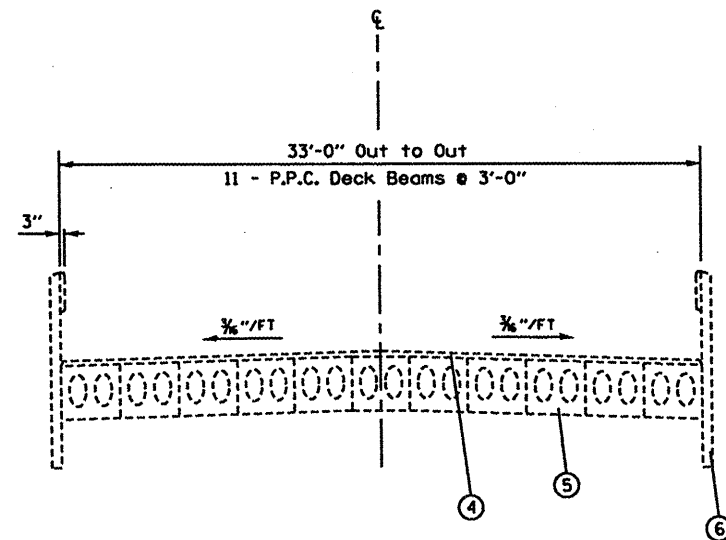
EXISTING TYPICAL SECTION

IL 94

STA. 298+50.00 TO STA. 301+46.45
 STA. 301+83.99 TO STA. 307+06.65

LEGEND

1. EXISTING 9"-6"-9" PCC PAVEMENT
2. EXISTING BASE COURSE WIDENING
3. EXISTING 6" AGGREGATE SHOULDERS
4. EXISTING HOT MIX ASPHALT OVERLAY
5. EXISTING 17" P.P.C. DECK BEAMS
6. EXISTING STEEL RAILING, TYPE S

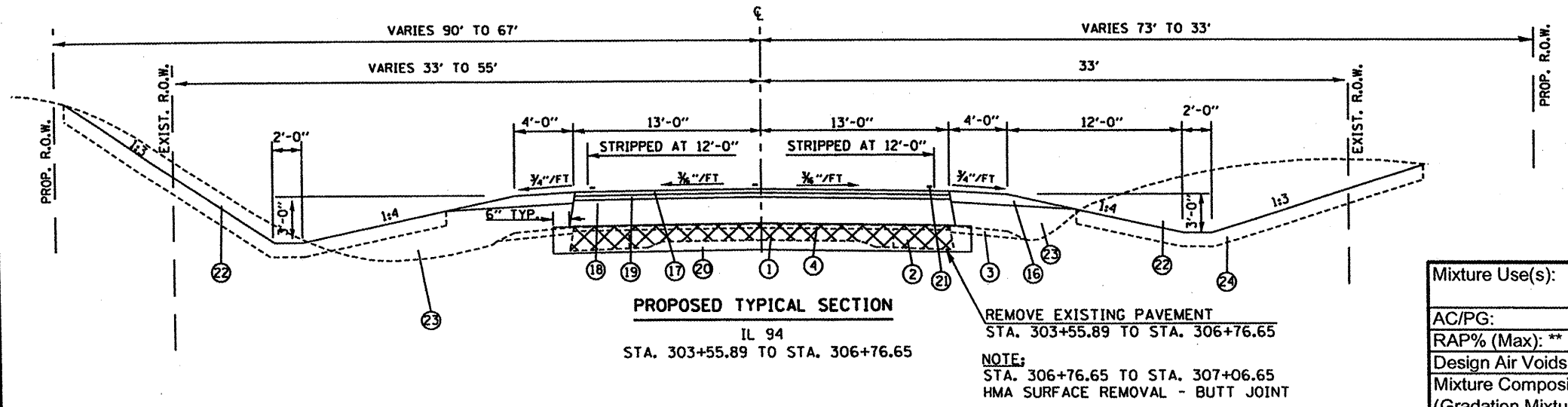
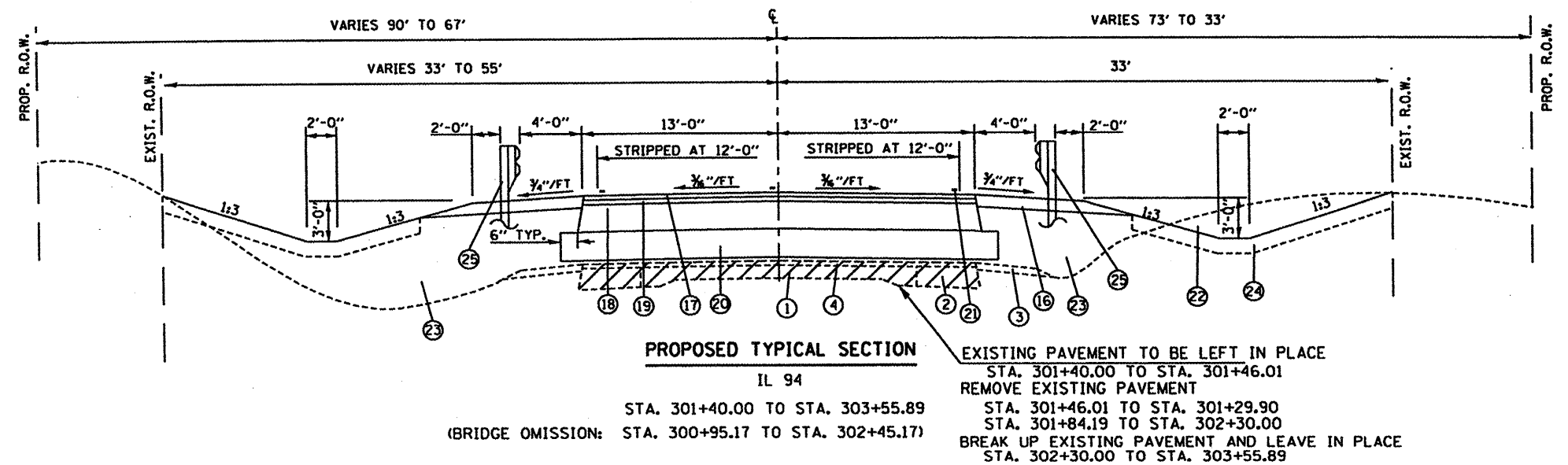
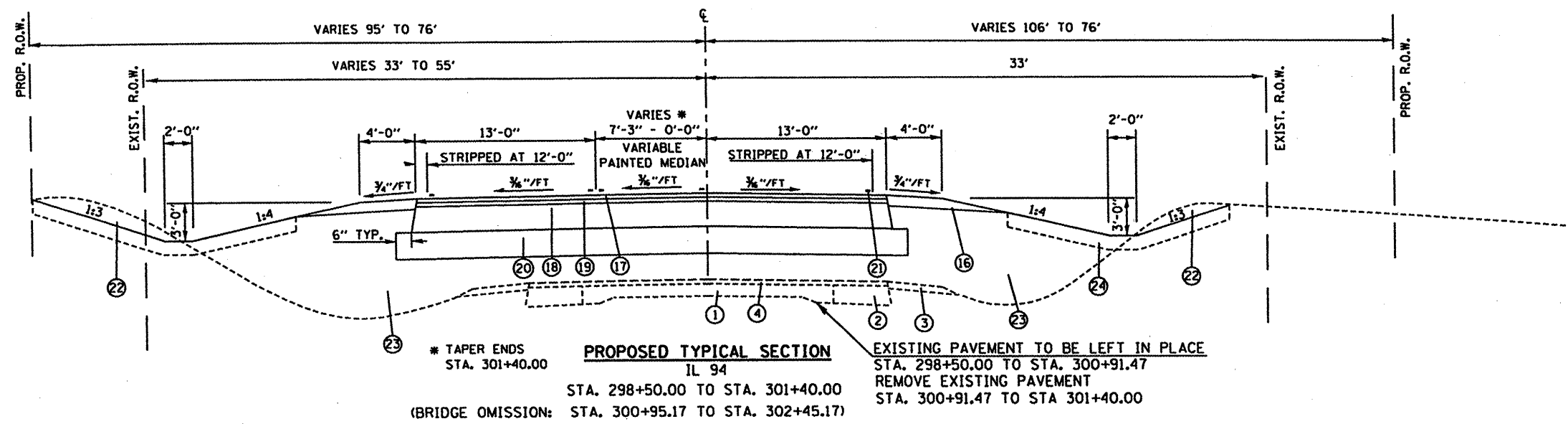


EXISTING TYPICAL SECTION

IL 94

STA. 301+46.45 TO STA. 301+83.99

FILE NAME =	USER NAME = jstein	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\056381\dgn\CADD SHEETS\0488773-shv-02-typical.dgn	DRAWN - JWS	REVISED -	534			136.137W&RS-3;136R109BR-2	HENDERSON	490	418	
PLOT SCALE = 10.0000 ' / IN.	CHECKED - SJK	REVISED -	CONTRACT NO. 50113							
PLOT DATE = 1/21/2009	DATE - 1/21/2009	REVISED -	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							
		SCALE: 1" = 50'			SHEET NO. 1 OF 1 SHEETS		STA. 298+50.00 TO STA. 307+06.65			



- LEGEND**
1. EXISTING 9"-6"-9" PCC PAVEMENT
 2. EXISTING BASE COURSE WIDENING
 3. EXISTING 6" AGGREGATE SHOULDERS
 4. EXISTING HOT MIX ASPHALT OVERLAY
 16. AGGREGATE SHOULDERS, TY-B, 6"
 17. HMA SURFACE, (IL 9.5 MIX), (SBS OR SBR 64-28), 2"
 18. HMA BINDER, LOWER LIFTS, 8 3/4"
 19. HMA BINDER, TOP LIFT, 2 1/4"
 20. SUB-BASE GRANULAR MAT. - TY-B, 12"
 21. EPOXY PAVEMENT MARKING
 22. EARTH EXCAVATION
 23. EMBANKMENT
 24. TOPSOIL, 4"
 25. STEEL PLATE BEAM GUARDRAIL (SEE SCHEDULES FOR STATIONS)
- NOTE:
ITEMS 17, 18, AND 19 ARE PAID FOR AS HMA PAVEMENT, "FULL DPTH", 13".

- NOTES:**
PER ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION THE EXISTING PAVEMENT WILL BE TREATED AS FOLLOWS:
- LEFT IN PLACE FROM STA. 298+50.00 TO STA. 300+91.47
 - BROKEN UP FROM STA. 302+30.00 TO STA. 303+55.89
 - REMOVED FROM STA. 300+91.47 TO STA. 301+46.01, STA. 301+84.19 TO STA. 302+30.00 AND STA. 303+55.89 TO STA. 306+76.65

STRUCTURAL DESIGN INFORMATION

ROAD CLASSIFICATION: MINOR ARTERIAL (NON-URBAN)

STRUCTURAL DESIGN TRAFFIC
PV = 1,592 SU = 88 MU = 70

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE
PV = 50% SU = 50% MU = 50%

MINIMUM SUBGRADE SUPPORT RATING:

FLEXIBLE PAVEMENT DESIGN:
13" FULL DEPTH HMA
12" SUBBASE

Mixture Use(s):	Full Depth Bituminous (Lower Lifts)	Full Depth Bituminous (Top Binder Lift)	Full Depth Bituminous (Surface Lift)
AC/PG:	PG 64-22	SBS or SBR 64-28	SBS or SBR 64-28
RAP% (Max): **	25%	10%	10%
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Gradation Mixture)	IL 19.0	IL 19.0	IL 9.5 or IL 12.5
Friction Aggregate:	N.A.	N.A.	Mixture D (Dolomite Only)

EARTHWORK SCHEDULE								
LOCATION (STATION TO STATION)		CHANNEL EXCAVATION (CU YD)	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE FACTOR (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)	
ILLINOIS RT. 94								
298+50.00	TO	300+91.47		372	279.0	4,413	-4,134	3,384
300+91.47	TO	302+30.00		169	128.8	946	-819	927
SN: 036-0069		378						
302+30.00	TO	303+55.89		229	171.8	612	-440	990
303+55.89	TO	306+76.65		1,539	1,154.3	377	777	2,448
309+20.00	TO	309+80.00		2	1.5	44	-43	0
TOTAL:		378		2,311	1,733	6,392	-4,659	7,749

TEMPORARY FENCE SCHEDULE				
LOCATION (STATION TO STATION)				TEMPORARY FENCE (FOOT)
ILLINOIS RT. 94				
298+50.00	TO	305+87.98	RT	759.00
299+80.86	TO	307+47.53	LT	758.00
TOTAL:				1,517

SEEDING SCHEDULE						
LOCATION (STATION TO STATION)		SEEDING CLASS 2A (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	TEMP. EROSION CONTROL SEEDING (ACRE) (6 APPL.)
ILLINOIS ROUTE 94						
298+50.00	TO	300+91.47	0.7	63.0	63.0	4.2
300+91.47	TO	302+30.00	0.2	17.1	17.1	1.1
302+30.00	TO	303+55.89	0.2	18.0	18.0	1.2
303+55.89	TO	306+76.65	0.5	45.9	45.9	3.1
309+20.00	TO	309+80.00	0.0	0.0	0.0	0.0
TOTAL:		1.6	144.0	144.0	144.0	9.6
PAY TOTAL:		1.6	150.0	150.0	150.0	9.6

GEOTECHNICAL FABRIC-MIDDLE CREEK	
LOCATION	GEOTECH. FABRIC FOR GRND. STAB.
IL 94	SQ. YD.
STA. 298+50 TO 301.01.17	930
STA. 302+39.17 TO 306+76.65	1418
TOTAL	2348

ROW MARKER SCHEDULE				
LOCATION (STATION TO STATION)				FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS (EACH)
ILLINOIS ROUTE 94				
299+00.00	93.00	RT		1
300+00.00	81.00	RT		1
300+95.00	95.00	LT		1
301+00.00	81.00	RT		1
302+00.00	68.00	LT		1
302+00.00	70.00	RT		1
302+50.00	90.00	LT		1
303+00.00	65.00	RT		1
303+25.00	90.00	LT		1
303+50.00	70.00	LT		1
303+50.00	73.00	RT		1
304+15.00	73.00	RT		1
304+35.00	50.00	RT		1
305+00.00	50.00	RT		1
305+85.00	33.00	RT		1
307+00.00	70.00	LT		1
307+50.00	55.00	LT		1
TOTAL:				17

PERMANENT SURVEY MARKERS SCHEDULE		
LOCATION		PERMANENT SURVEY MARKERS, TYPE I (EACH)
ILLINOIS ROUTE 94		
301+70.17	CL	1
303+00.00	CL	1
TOTAL:		2

FENCE REMOVAL SCHEDULE						
LOCATION (STATION TO STATION)						FENCE REMOVAL (FOOT)
ILLINOIS RT. 94						
298+50.00	35.27	TO	299+54.26	35.66	RT	104.26
299+54.26	35.66	TO	299+90.17	33.23	RT	35.99
299+90.17	33.23	TO	300+73.30	56.23	RT	86.25
300+73.30	56.23	TO	301+21.32	72.36	RT	50.66
301+21.32	72.36	TO	301+17.56	44.94	RT	27.68
301+17.56	44.94	TO	301+66.23	44.76	RT	48.67
302+20.18	69.10	TO	302+16.09	38.00	RT	31.37
302+16.09	38.00	TO	305+87.98	40.00	RT	371.90
299+80.86	111.37	TO	299+85.22	73.92	LT	37.70
299+85.22	73.92	TO	300+00.35	60.17	LT	20.44
300+00.35	60.17	TO	300+31.00	61.72	LT	30.69
300+31.00	61.72	TO	301+36.20	54.02	LT	105.48
301+36.20	54.02	TO	301+48.18	54.96	LT	12.02
301+94.63	54.07	TO	303+74.61	58.59	LT	180.04
303+74.61	58.59	TO	307+47.53	57.85	LT	372.92
TOTAL:						1,517

PIPE CULVERT SCHEDULE									
LOCATION (STATION TO STATION)					PIPE CULVERTS, TYPE 2, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 15" (FOOT)		METAL END SECTIONS, 15" (EACH)	PIPE CULVERT REMOVAL (FOOT)	
ILLINOIS ROUTE 94									
299+94.40	28.28	RT	TO	300+21.54	28.44	RT			28
302+91.75	27.45	LT	TO	303+13.77	23.87	LT			23
303+63.33	44.88	RT	TO	304+02.86	36.37	RT	37	2	
303+68.00	21.68	RT	TO	303+85.01	21.03	RT			18
309+35.35	30.47	LT	TO	309+75.84	32.22	LT	37	2	
TOTAL:							74	4	69

RIPRAP SCHEDULE						
LOCATION (STATION TO STATION)			STONE RIPRAP, CLASS B4 (SQ YD)	STONE RIPRAP, CLASS A5 (SQ YD)	FILTER FABRIC (SQ YD)	
ILLINOIS ROUTE 94						
303+53.81	46.31	RT	14			14
309+75.84	32.22	LT	15			15
SN: 036-0069				699		699
TOTAL:			29	699	728	

INLET AND PIPE PROTECTION SCHEDULE				
LOCATION (STATION TO STATION)			INLET AND PIPE PROTECTION (EACH)	
ILLINOIS RT. 94				
304+02.86	36.37	RT		1
309+35.35	30.47	LT		1
TOTAL:			2	

PERIMETER EROSION BARRIER SCHEDULE									
LOCATION (STATION TO STATION)						PERIMETER EROSION BARRIER (FOOT)			
ILLINOIS RT. 94									
298+50.00	83.50	RT	TO	299+00.00	74.20	RT			50.9
299+00.00	74.20	RT	TO	300+00.00	73.90	RT			99.8
300+00.00	73.90	RT	TO	301+00.00	72.60	RT			100.0
301+00.00	72.60	RT	TO	301+25.00	66.40	RT			25.8
306+43.00	26.60	RT	TO	307+06.00	20.00	RT			100.0
298+50.00	92.80	LT	TO	299+50.00	90.00	LT			100.0
299+50.00	90.00	LT	TO	300+00.00	78.30	LT			51.2
300+00.00	78.30	LT	TO	300+50.00	73.90	LT			50.2
TOTAL:						578			

TEMPORARY DITCH CHECK SCHEDULE		
LOCATION (STATION TO STATION)		TEMPORARY DITCH CHECK (EACH)
ILLINOIS RT. 94		
299+00.00	LT	1
299+25.00	RT	1
299+56.00	LT	1
300+30.00	RT	1
300+40.00	LT	1
302+10.00	RT	1
302+20.00	LT	1
302+25.00	RT	1
302+45.00	RT	1
302+66.00	LT	1
302+82.00	LT	1
302+85.00	RT	1
302+96.00	LT	1
303+15.00	RT	1
303+21.00	LT	1
303+35.00	RT	1
303+45.00	LT	1
303+95.00	LT	1
304+25.00	RT	1
305+15.00	RT	1
305+55.00	RT	1
305+70.00	LT	1
306+05.00	RT	1
306+25.00	LT	1
TOTAL:		24

EROSION CONTROL BLANKET SCHEDULE							
LOCATION (STATION TO STATION)			EROSION CONTROL BLANKET (SQ YD)	HEAVY DUTY EROSION CONTROL BLANKET (SQ YD)			
ILLINOIS RT. 94							
298+50.00		TO	300+91.47	3,384			
300+91.47		TO	302+30.00	927			
302+30.00		TO	303+55.89	990			
302+40.18	22.25	LT	TO	302+40.18	45.14	LT	25
302+43.16	22.32	RT	TO	302+43.16	51.11	RT	32
303+55.89		TO	306+76.65	2,448			
TOTAL:			7,749	57			

FILE NAME =	USER NAME = jstain	DESIGNED - JWS	REVISED -
P:\050381\dgn\CADD SHEETS\0408773-ahr-004_006-schedule.dgn		DRAWN - JWS	REVISED -
	PLOT SCALE = 333.3333' / IN.	CHECKED - SJK	REVISED -
	PLOT DATE = 1/21/2009	DATE - 1/21/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	1136.137W&RS-3136R1098R-2	HENDERSON	490	421
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 88773	

GUARDRAIL SCHEDULE										
LOCATION (STATION TO STATION)				TRAFFIC BARRIER TERMINAL TYPE 6 (EACH)	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) (EACH)	STEEL PLATE BEAM GUARDRAIL, TYPE A (FOOT)	GUARDRAIL REFLECTORS (EACH)	TERMINAL MARKER - DIRECT APPLIED (EACH)	GUARDRAIL REMOVAL (FOOT)	GUARDRAIL AGGREGATE EROSION CONTROL (TON)
ILLINOIS RT. 94										
298+55.51	TO	301+02.94	RT		1			1		53
298+89.51	TO	299+39.51	RT				7			
298+89.51	TO	303+66.31	RT							
299+39.51	TO	300+89.51	RT			150.0				
299+40.00	TO	300+99.31	LT							34
299+74.01	TO	300+24.01	LT		1			1		
299+74.01	TO	304+50.83	LT				7			
300+24.01	TO	300+86.51	LT			62.5				
300+40.00	TO	301+29.00	LT						89	
300+40.00	TO	301+29.00	RT						89	
300+86.51	TO	301+29.66	LT	1						
300+89.51	TO	301+32.66	RT	1						
302+01.00	TO	302+90.00	LT						89	
302+01.00	TO	302+90.00	RT						89	
302+07.68	TO	302+50.83	LT	1						
302+10.66	TO	302+53.81	RT	1						
302+37.40	TO	304+84.83	LT							53
302+40.95	TO	303+71.48	RT							29
302+50.83	TO	304+00.83	LT			150.0				
302+53.81	TO	303+16.31	RT			62.5				
303+16.31	TO	303+66.31	RT		1			1		
304+00.83	TO	304+50.83	LT		1			1		
TOTAL:				4	4	425	14	4	356	169

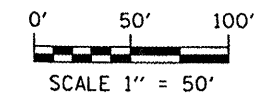
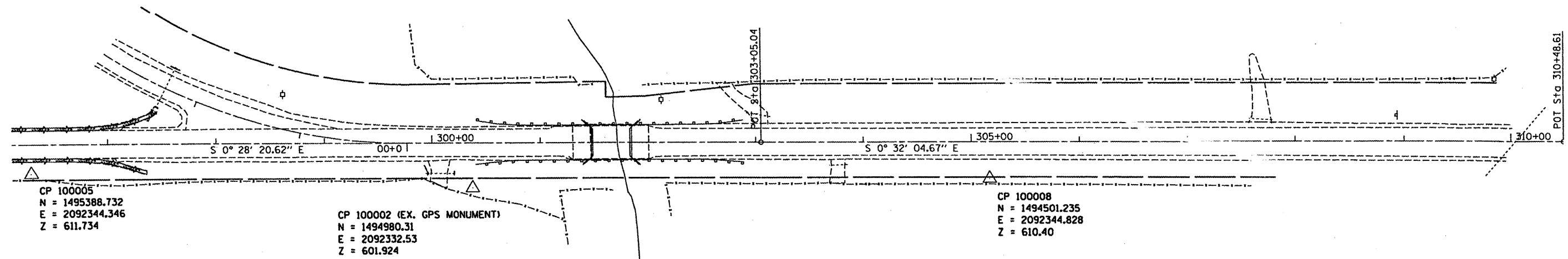
EPOXY PAVEMENT MARKING SCHEDULE							
LOCATION (STATION TO STATION)			SHORT-TERM PAVEMENT MARKING (FOOT)	WORK ZONE PAVEMENT MARKING REMOVAL (SQ FT)	12" MARKINGS SOLID YELLOW (FOOT)	4" MARKINGS SOLID WHITE (FOOT)	4" MARKINGS SOLID YELLOW (FOOT)
ILLINOIS RT. 94							
298+50.00	TO	301+40.00	116	39	54	580	1160
301+40.00	TO	303+40.00	40	13		400	400
303+40.00	TO	307+06.65	73	24		734	92
TOTAL:			229	76	54	1,714	1,652
PAY TOTAL:			229	76	54		3,366

ENTRANCE SCHEDULE				
LOCATION (STATION, DIRECTION)			INCIDENTAL HOT-MIX ASPHALT SURFACING (TON)	AGGREGATE SURFACE COURSE, TYPE B (TON)
ILLINOIS RT. 94				
303+81.48	RT	F.E.	10	43
309+52.50	LT	F.E.	10	22
TOTAL:			20	65

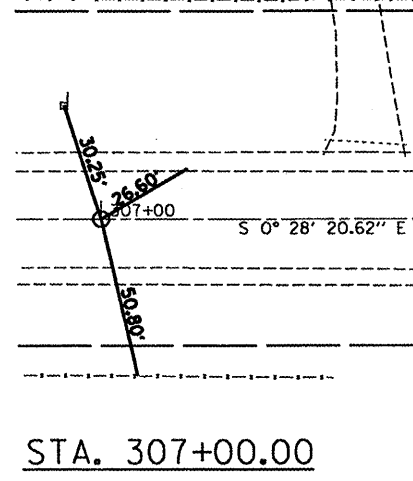
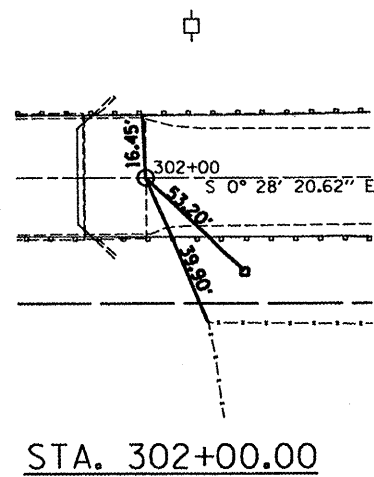
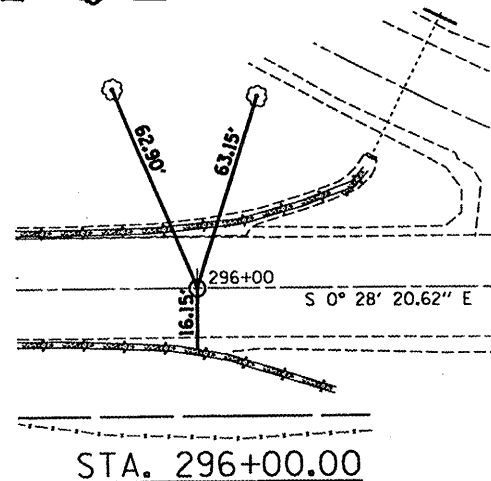
PAVING SCHEDULE														
LOCATION (STATION TO STATION)			HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (SQ YD)	PAVEMENT REMOVAL (SQ YD)	PAVEMENT BREAKING (SQ YD)	SUB-BASE GRANULAR MATERIAL, TYPE B 12" (SQ YD)	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (TON)	HOT MIX ASPHALT PAVEMENT (FULL DEPTH), 13" (SQ YD)	MATERIAL TRANSFER DEVISE (TON)	BRIDGE APPROACH PAVEMENT (SQ YD)	BRIDGE APPROACH PAVEMENT (SPECIAL) (SQ YD)	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) (SQ YD)	AGGREGATE SHOULDERS TYPE B, 6" (SQ YD)
ILLINOIS RT. 94														
298+50.00	TO	300+95.13					1.4		821	198				
298+50.00	TO	301+01.17				930								224
300+91.47	TO	301+46.01		172										
300+95.17	TO	301+01.17					0.04						24	
301+01.17	TO	301+31.17									116			
301+84.19	TO	302+30.00		144										
302+09.17	TO	302+39.17								114				
302+39.17	TO	302+45.17											23	
302+39.17	TO	306+76.65				1418								
302+39.17	TO	307+06.65												416
302+45.17	TO	307+06.65					2.2		1247	301				
303+30.00	TO	303+55.89			359									
303+55.89	TO	306+76.65		911										
306+76.65	TO	307+06.65	87					10		10				
TOTAL:			87	1227	359	2,348	3.7	10	2,068	509	114	116	47	640



△ CP 100011
 N = 1495056.667
 E = 2092663.728
 Z = 601.86



ALIGNMENT TIES



BENCHMARKS

B.M.(CB-1)- Railroad spike in powerpole at South entrance to rest area +/- 500' North of existing structure (036-0012) on East side of IL RT 94.

Elev. 609.424

B.M.(CB-2)- Chiseled "□" on NE corner of bridge approach deck of existing structure (036-0012).

Elev. 605.42

B.M.(CB-3)- Railroad spike in powerpole +/- 600' south of existing structure (036-0012) on East side of IL RT 94.

Elev. 619.28

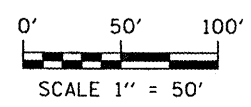
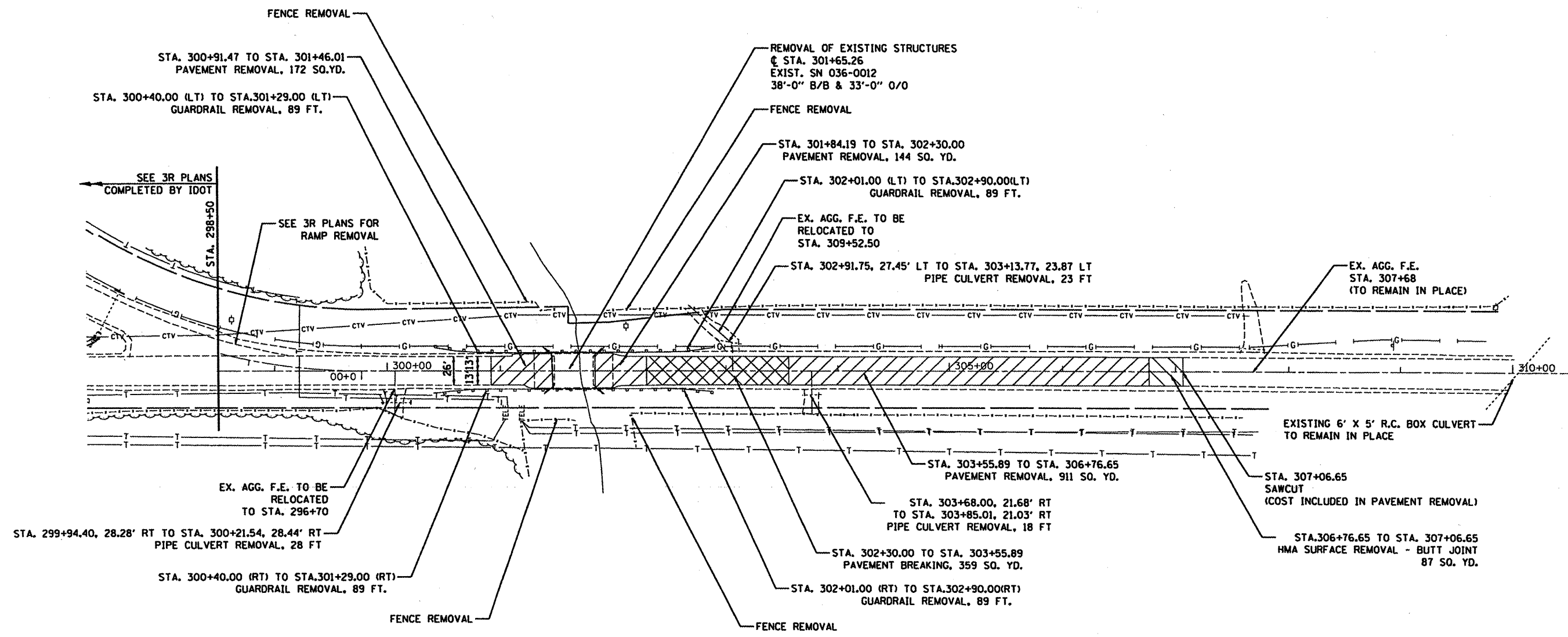
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PLOT SCALE = 100.0000' / IN.		DRAWN - JWS	REVISED -
PLOT DATE = 1/21/2009		CHECKED - SJK	REVISED -
		DATE - 1/21/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 296+00.00 TO STA. 309+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	1136.137W&RS-3136R109BR-2	HENDERSON	490	1423
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 88773	



FILE NAME =
 P:\050381\dgn\CADD SHEETS\488773-sht-088-rem.dgn

USER NAME = jstain
 DRAWN - JWS
 PLOT SCALE = 1/21/2009
 PLOT DATE = 1/21/2009

DESIGNED - JWS	REVISED -
CHECKED - SJK	REVISED -
DATE - 1/21/2009	REVISED -

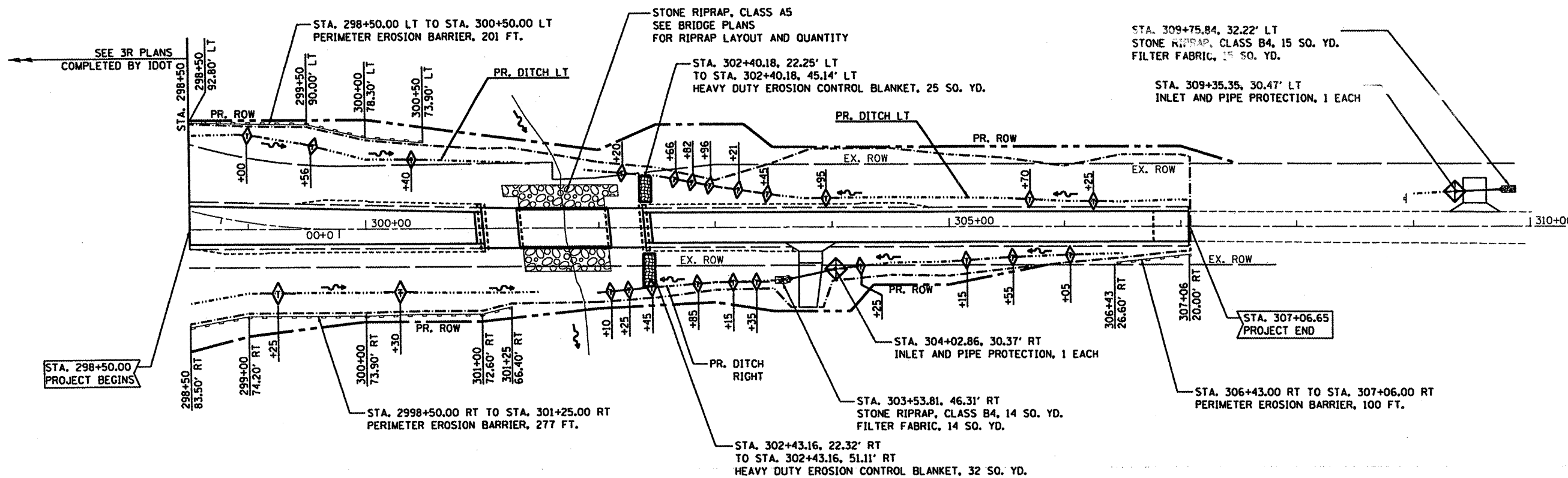
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EXISTING UTILITY INFORMATION AND REMOVAL ITEMS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	136.137W&RS-3;136R;109BR-2	HENDERSON	490	424
CONTRACT NO. 88773				

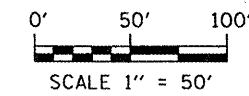
SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 296+00.00 TO STA. 307+06.65

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

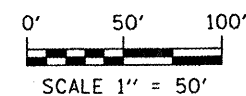
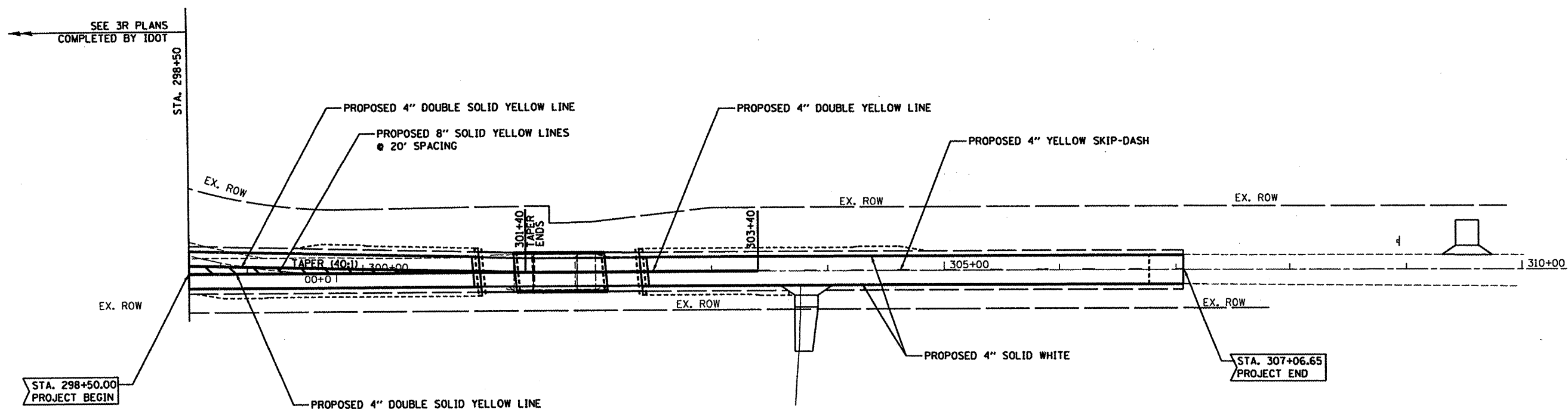


LEGEND

	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
	PROPOSED DITCH FLOWLINE
	CONSTRUCTION LIMITS
	HEAVY DUTY EROSION CONTROL BLANKET
	PROPOSED RIPRAP



FILE NAME = P:\050301\dgn\CADD SHEETS\0488773-shr-010-eros.dgn	USER NAME = jstein	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL DETAILS	F.A.P. RTE. 534	SECTION 136.137W&RS-3;136R;109BR-2	COUNTY HENDERSON	TOTAL SHEETS 490	SHEET NO. 426	
PLOT SCALE = 100.0000' / IN.	CHECKED - SJK	REVISIED -	SCALE: 1" = 50'			SHEET NO. 1 OF 1 SHEETS	STA. 298+50.00 TO STA. 309+80.00	FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 88773	
PLOT DATE = 1/21/2009	DATE - 1/21/2009	REVISIED -									

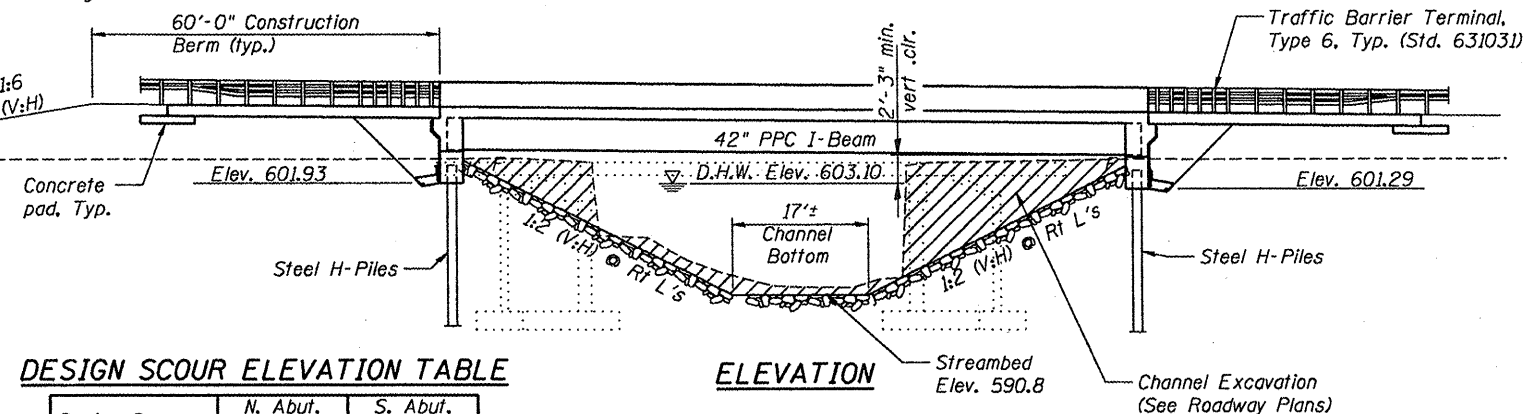


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	PLOT SCALE = 100.0000' / IN.	DRAWN - JWS	REVISED -			534	136.137W&RS-3136R1098R-2	HENDERSON	491	427
	PLOT DATE = 1/21/2009	CHECKED - SJK	REVISED -			CONTRACT NO. 88773				
	DATE - 1/21/2009	DATE - 1/21/2009	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
					SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEETS		STA. 298+50.00 TO STA. 309+80.00		

B.M. - Chiseled "□" on NE corner of bridge approach deck of existing structure.
Elev. 605.42

Existing Structure - S.N. 036-0012 is a single span, 17" PPC Deck Beam superstructure on closed, reinforced concrete abutments. Structure is 38'-0" back to back and 33'-0" out to out. The Structure was rebuilt as F.A. Rte 534, Section 109-BR-1, Sta. 301+61.00 in 1977. Traffic shall be detoured.

Salvage - All structural steel supports under the existing deck beams shall be salvaged and delivered by the contractor to the Henderson Co. yard in Stronghurst. Cost shall be included in Removal of Existing Structures.



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (Ft.)	N. Abut.	S. Abut.
	601.93	601.29

ELEVATION

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.038g
Site Coefficient (S) = 1.5

DESIGN STRESSES
FIELD UNITS

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

PRECAST PRESTRESSED UNITS

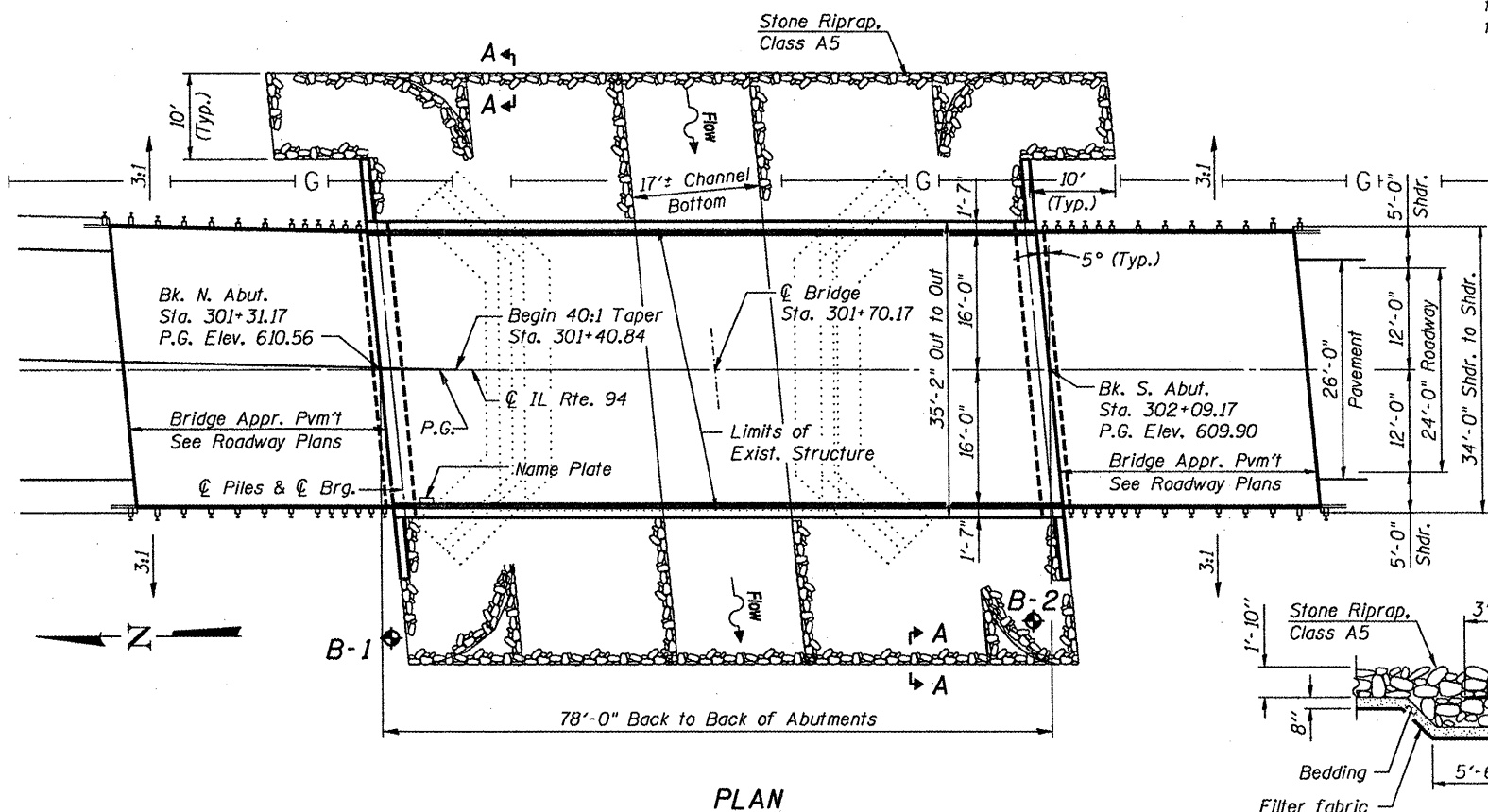
f'c = 7,000 psi
f'ci = 6,000 psi
fpu = 270,000 psi (1/2" low lax. strands)
fpbt = 201,960 psi (1/2" low lax. strands)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions
Reinforcement bars designated (E) shall be epoxy coated.
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
Slipforming of the parapets is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	163	163
Stone Riprap, Class A5	Sq. Yd.	-	-	699
Filter Fabric	Sq. Yd.	-	-	699
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	194	194
Concrete Structures	Cu. Yd.	-	37.4	37.4
Concrete Superstructure	Cu. Yd.	114.9	-	114.9
Bridge Deck Grooving	Sq. Yd.	260	-	260
Concrete Encasement	Cu. Yd.	-	4.2	4.2
Protective Coat	Sq. Yd.	343	-	343
Furnishing and Erecting Precast Prestressed Concrete I Beams, 42"	Foot	462	-	462
Reinforcement Bars, Epoxy Coated	Pound	21300	5040	26340
Bar Splicers	Each	64	-	64
Furnishing Steel Piles HP 12x53	Foot	-	906	906
Driving Piles	Foot	-	906	906
Test Pile Steel HP 12x53	Each	-	1	1
Name Plates	Each	1	-	1
Geocomposite Wall Drain	Sq. Yd.	-	77	77
Pipe Underdrains for Structures, 4"	Foot	-	180	180
Asbestos Bearing Pad Removal	Each	-	-	22



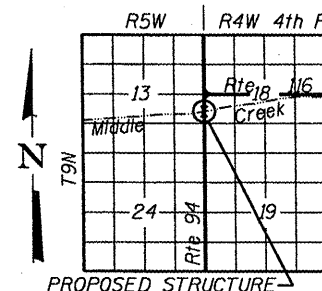
PLAN

INDEX OF SHEETS

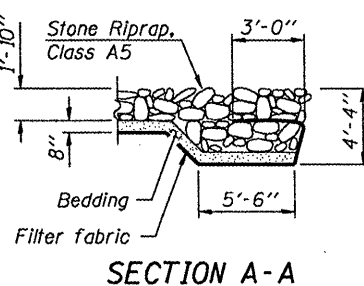
- 1 General Plan and Elevation
- 2-3 Top of Slab Elevations
- 4-5 Top of Approach Slab Elevations
- 6-7 Superstructure Details
- 8 Diaphragm Details
- 9 Framing Plan
- 10-11 42" PPC I-Beam
- 12-13 Abutments
- 14 Foundation Details
- 15 Bar Splicer Assembly Details
- 16-17 Soil Boring Logs

STATION 301+70.17
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 534 SECTION 109BR-2
LOADING HL93
STR. NO. 036-0069

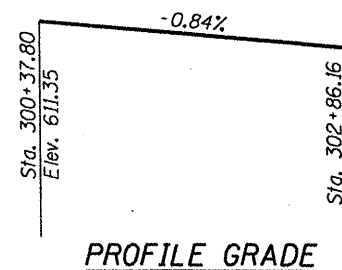
NAME PLATE
See Std. 515001



LOCATION SKETCH



SECTION A-A



PROFILE GRADE

WATERWAY INFORMATION

Drainage Area = 7.17 sq. mi.
Ex. Low Grade Elev. = 605.8 @ Sta. 300+10.97
Pr. Low Grade Elev. = 608.7 @ Sta. 304+18.62

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	2755	287	449	602.2	0.5	0.3	602.7	602.5
Base	100	3248	319	507	603.1	2.6	0.7	605.7	603.8
Overtopping	70	2900	322	-	603.2	2.6	-	605.8	-
Max. Calc.	500	4452	-	582	604.2	-	1.5	-	605.7

DESIGNED	ALN
CHECKED	MJJ
DRAWN	MJJ
CHECKED	ALN

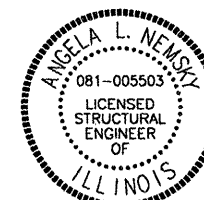
THOUVENOT, WADE & MOERCHEN, INC.
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Swansea, Illinois 62226
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SHEET NO. 1
SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-2	HENDERSON	490	428
CONTRACT NO. 88773			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

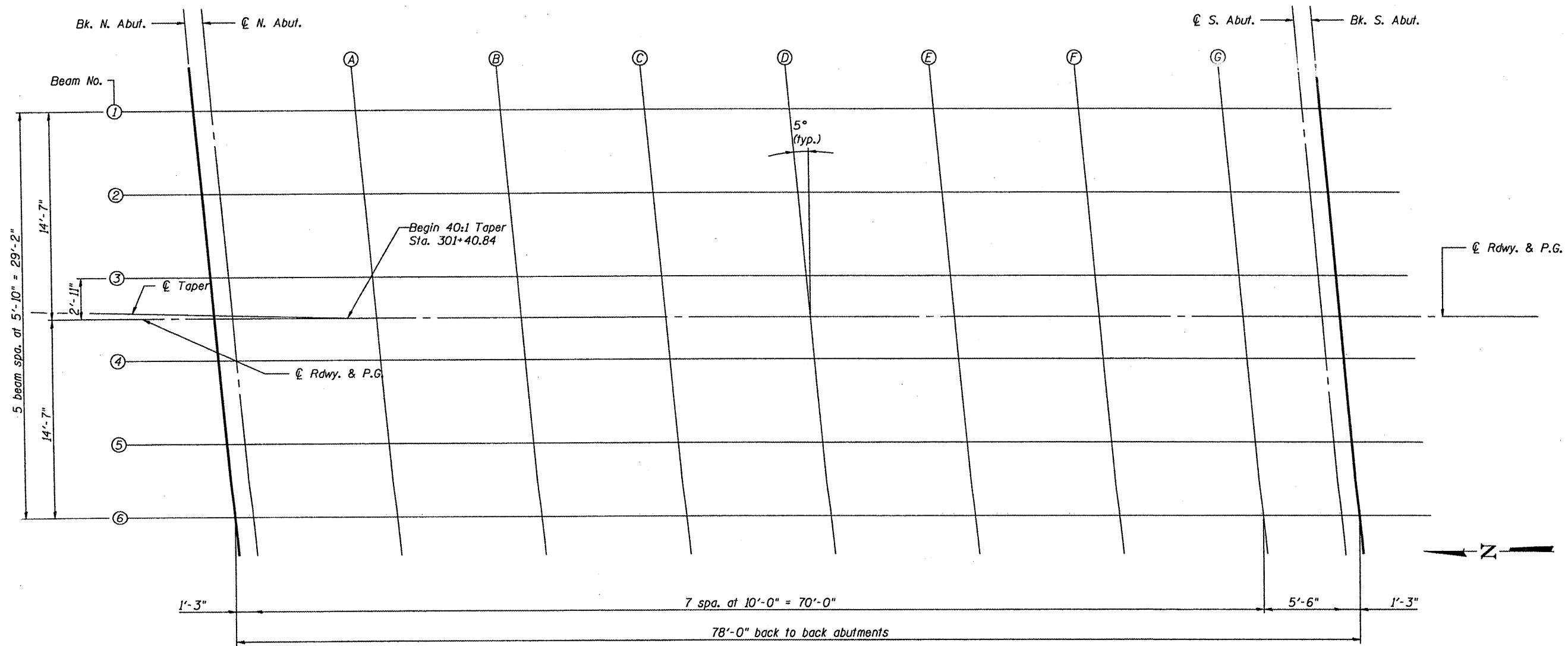


1/22/2009
ANGELA L. NEMSKY
EXPIRES 11-30-2010

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
IL RTE. 94 OVER MIDDLE CREEK
STATION 301+70.17
STRUCTURE NO. 036-0069

1/22/2009 10:13:42 AM



PLAN

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

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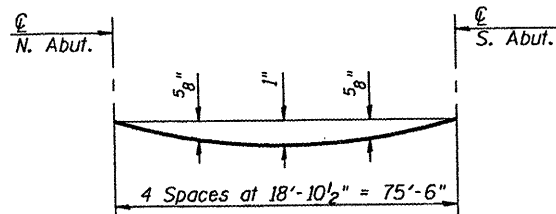
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SHEET NO. 2
SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-2	HENDERSON	490	429
CONTRACT NO. 88773				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 036-0069

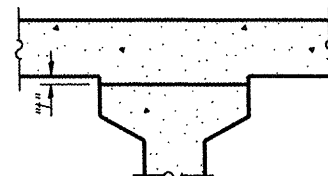


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on Sheet 2 of 17. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	301+29.89	-14.58	610.33	610.33
☉ N. Abut.	301+31.15	-14.58	610.32	610.32
A	301+41.15	-14.58	610.24	610.27
B	301+51.15	-14.58	610.15	610.21
C	301+61.15	-14.58	610.07	610.14
D	301+71.15	-14.58	609.98	610.06
E	301+81.15	-14.58	609.90	609.96
F	301+91.15	-14.58	609.82	609.86
G	302+01.15	-14.58	609.73	609.75
☉ S. Abut.	302+06.64	-14.58	609.68	609.68
Bk. S. Abut.	302+07.89	-14.58	609.67	609.67

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	301+30.40	-8.75	610.43	610.43
☉ N. Abut.	301+31.66	-8.75	610.42	610.42
A	301+41.66	-8.75	610.34	610.37
B	301+51.66	-8.75	610.25	610.31
C	301+61.66	-8.75	610.17	610.24
D	301+71.66	-8.75	610.08	610.16
E	301+81.66	-8.75	610.00	610.07
F	301+91.66	-8.75	609.92	609.96
G	302+01.66	-8.75	609.83	609.85
☉ S. Abut.	302+07.15	-8.75	609.79	609.79
Bk. S. Abut.	302+08.40	-8.75	609.77	609.77

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	301+30.91	-2.92	610.52	610.52
☉ N. Abut.	301+32.17	-2.92	610.51	610.51
A	301+42.17	-2.92	610.42	610.45
B	301+52.17	-2.92	610.34	610.40
C	301+62.17	-2.92	610.26	610.33
D	301+72.17	-2.92	610.17	610.25
E	301+82.17	-2.92	610.09	610.15
F	301+92.17	-2.92	610.00	610.05
G	302+02.17	-2.92	609.92	609.93
☉ S. Abut.	302+07.66	-2.92	609.87	609.87
Bk. S. Abut.	302+08.91	-2.92	609.86	609.86

☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	301+31.17	0.00	610.56	610.56
☉ N. Abut.	301+32.42	0.00	610.55	610.55
A	301+42.42	0.00	610.47	610.50
B	301+52.42	0.00	610.38	610.44
C	301+62.42	0.00	610.30	610.37
D	301+72.42	0.00	610.21	610.29
E	301+82.42	0.00	610.13	610.20
F	301+92.42	0.00	610.05	610.09
G	302+02.42	0.00	609.96	609.98
☉ S. Abut.	302+07.91	0.00	609.92	609.92
Bk. S. Abut.	302+09.17	0.00	609.90	609.90

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	301+31.43	2.92	610.52	610.52
☉ N. Abut.	301+32.68	2.92	610.50	610.50
A	301+42.68	2.92	610.42	610.45
B	301+52.68	2.92	610.34	610.39
C	301+62.68	2.92	610.25	610.32
D	301+72.68	2.92	610.17	610.24
E	301+82.68	2.92	610.08	610.15
F	301+92.68	2.92	610.00	610.05
G	302+02.68	2.92	609.91	609.93
☉ S. Abut.	302+08.17	2.92	609.87	609.87
Bk. S. Abut.	302+09.42	2.92	609.86	609.86

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	301+31.94	8.75	610.42	610.42
☉ N. Abut.	301+33.19	8.75	610.41	610.41
A	301+43.19	8.75	610.32	610.35
B	301+53.19	8.75	610.24	610.30
C	301+63.19	8.75	610.16	610.23
D	301+73.19	8.75	610.07	610.15
E	301+83.19	8.75	609.99	610.05
F	301+93.19	8.75	609.90	609.95
G	302+03.19	8.75	609.82	609.83
☉ S. Abut.	302+08.68	8.75	609.77	609.77
Bk. S. Abut.	302+09.94	8.75	609.76	609.76

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	301+32.45	14.58	610.31	610.31
☉ N. Abut.	301+33.70	14.58	610.30	610.30
A	301+43.70	14.58	610.22	610.25
B	301+53.70	14.58	610.13	610.19
C	301+63.70	14.58	610.05	610.12
D	301+73.70	14.58	609.96	610.04
E	301+83.70	14.58	609.88	609.94
F	301+93.70	14.58	609.79	609.84
G	302+03.70	14.58	609.71	609.73
☉ S. Abut.	302+09.19	14.58	609.66	609.66
Bk. S. Abut.	302+10.45	14.58	609.65	609.65

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 036-0069**

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SHEET NO. 3 SHEETS 17	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	534	109BR-2	HENDERSON	490	430
			CONTRACT NO. 88773		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

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EAST FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pav't	300+99.64	-17.45	610.53
A	301+09.67	-17.11	610.45
B	301+19.70	-16.76	610.37
Bk. N. Abut.	301+29.73	-16.42	610.30

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pav't	301+00.03	-13.02	610.62
A	301+10.05	-12.77	610.54
B	301+20.07	-12.52	610.46
Bk. N. Abut.	301+30.10	-12.27	610.38

☉ TAPER

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pav't	301+01.08	-0.99	610.80
A	301+11.11	-0.74	610.72
B	301+21.13	-0.49	610.64
Bk. N. Abut.	301+31.15	-0.24	610.56

☉ ROADWAY & PROFILE GRADE

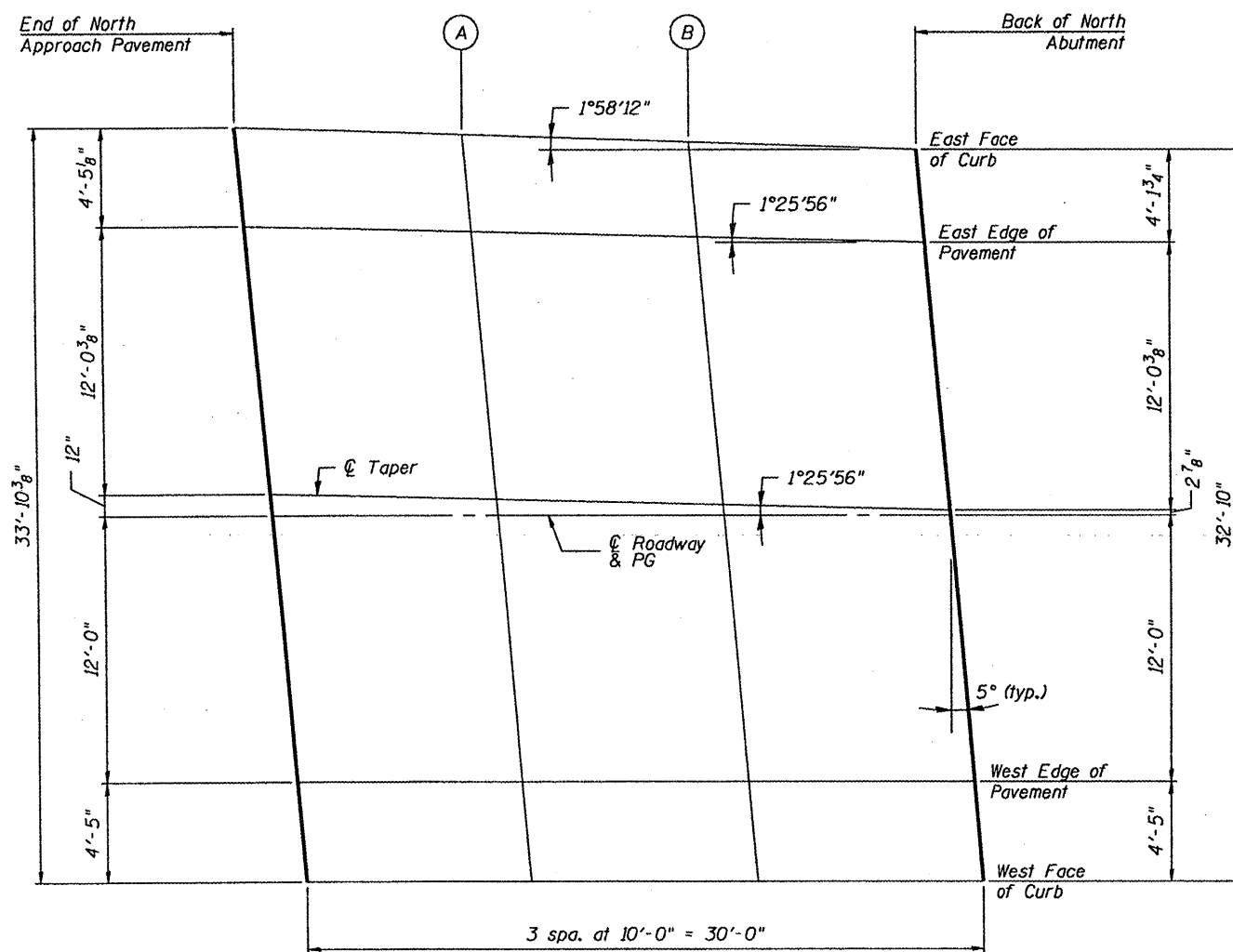
Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pav't	301+01.17	0.00	610.82
A	301+11.17	0.00	610.73
B	301+21.17	0.00	610.65
Bk. N. Abut.	301+31.17	0.00	610.56

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pav't	301+02.22	12.00	610.62
A	301+12.22	12.00	610.54
B	301+22.22	12.00	610.45
Bk. N. Abut.	301+32.22	12.00	610.37

WEST FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
End N. Appr. Pav't	301+02.61	16.42	610.52
A	301+12.61	16.42	610.44
B	301+22.61	16.42	610.36
Bk. N. Abut.	301+32.61	16.42	610.27



PLAN

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

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SHEET NO. 4
 SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-2	HENDERSON	490	431
CONTRACT NO.			88773	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

**TOP OF NORTH APPROACH SLAB
 STRUCTURE NO. 036-0069**

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EAST FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	302+07.73	-16.42	609.64
C	302+17.73	-16.42	609.55
D	302+27.73	-16.42	609.47
End of S. Appr. Pav't.	302+37.73	-16.42	609.38

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	302+08.12	-12.00	609.73
C	302+18.12	-12.00	609.64
D	302+28.12	-12.00	609.56
End of S. Appr. Pav't.	302+38.12	-12.00	609.47

ROADWAY & PROFILE GRADE

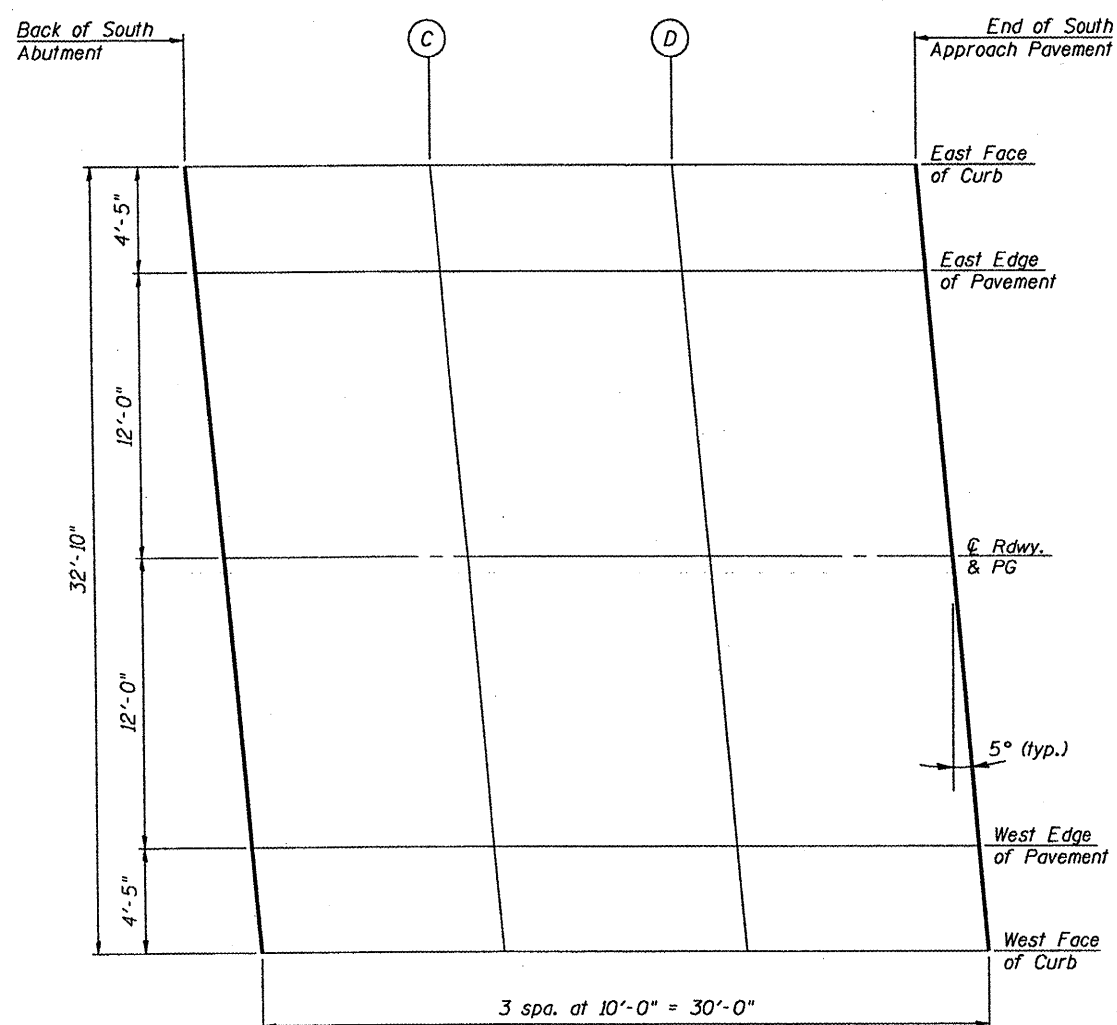
Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	302+09.17	0.00	609.90
C	302+19.17	0.00	609.82
D	302+29.17	0.00	609.74
End of S. Appr. Pav't.	302+39.17	0.00	609.65

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	302+10.22	12.00	609.71
C	302+20.22	12.00	609.62
D	302+30.22	12.00	609.54
End of S. Appr. Pav't.	302+40.22	12.00	609.46

WEST FACE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
Bk. S. Abut.	302+10.61	16.42	609.61
C	302+20.61	16.42	609.53
D	302+30.61	16.42	609.44
End of S. Appr. Pav't.	302+40.61	16.42	609.36



PLAN

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

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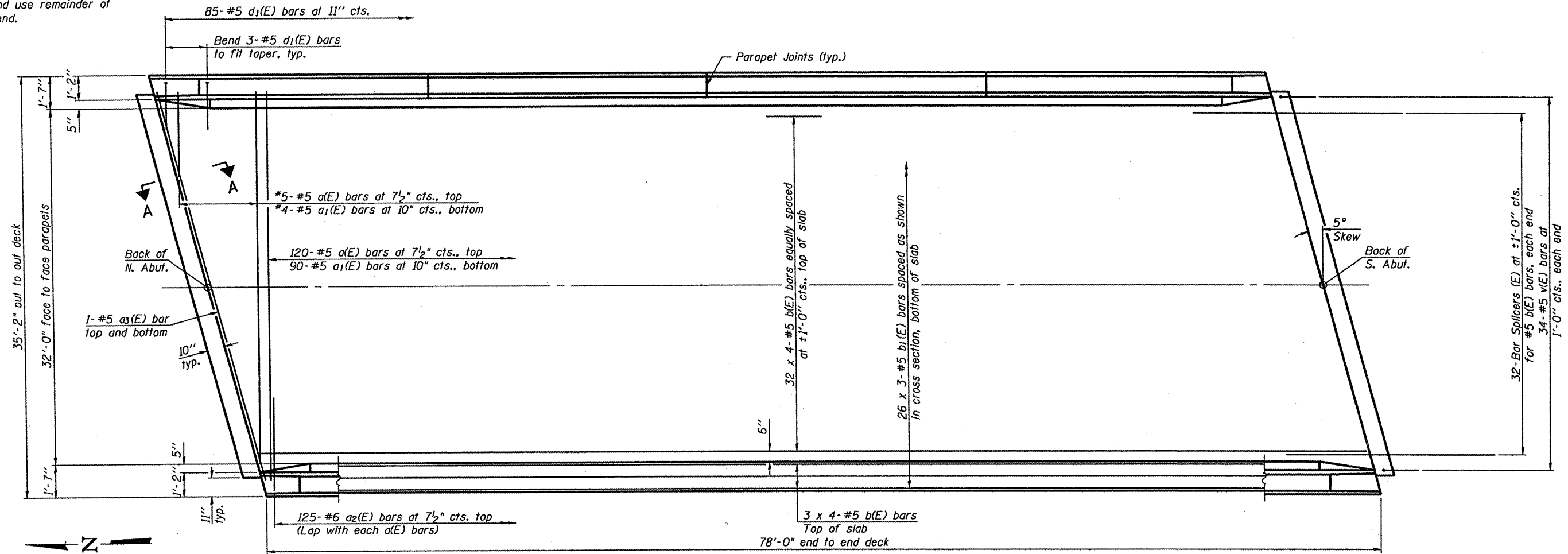


SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	534	109BR-2	HENDERSON	490	432
SHEETS 17	CONTRACT NO.		88773		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

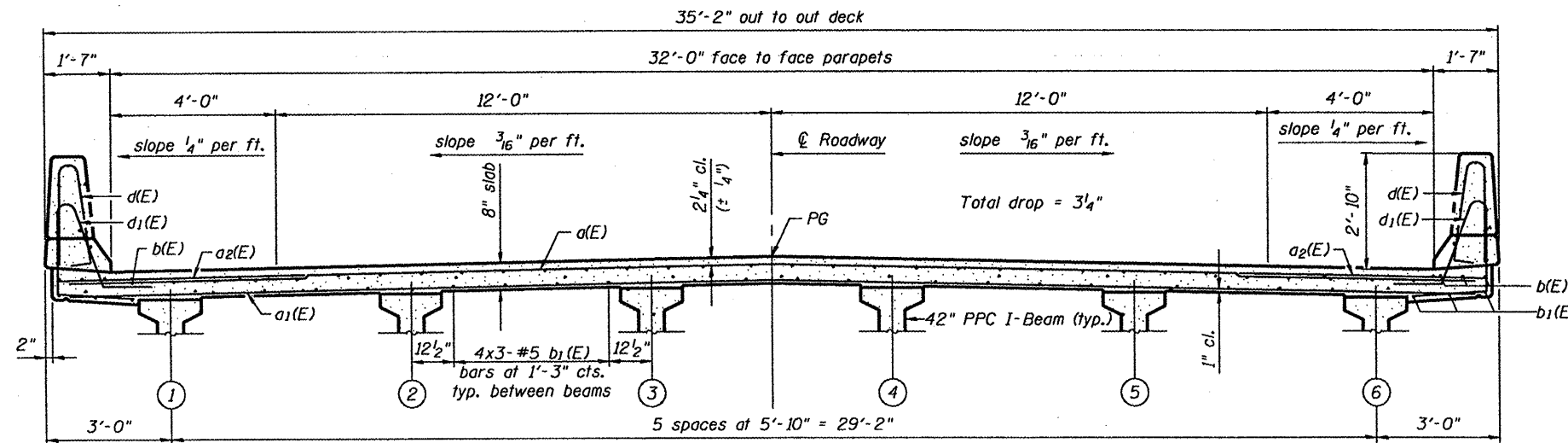
**TOP OF SOUTH APPROACH SLAB
 STRUCTURE NO. 036-0069**

1/21/2009 10:01:44 AM

* Order a(E) and a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.



PLAN



CROSS SECTION
(Looking South)

Notes:
See Sheet 7 of 17 for superstructure details and Bill of Material.
Bars indicated thus 32 x 2-#5 etc. indicates 32 lines of bars with 2 lengths per line.
See Sheet 7 of 17 for parapet reinforcement.

MINIMUM BAR LAP
(Slab)
#5 bar = 1'-8"

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

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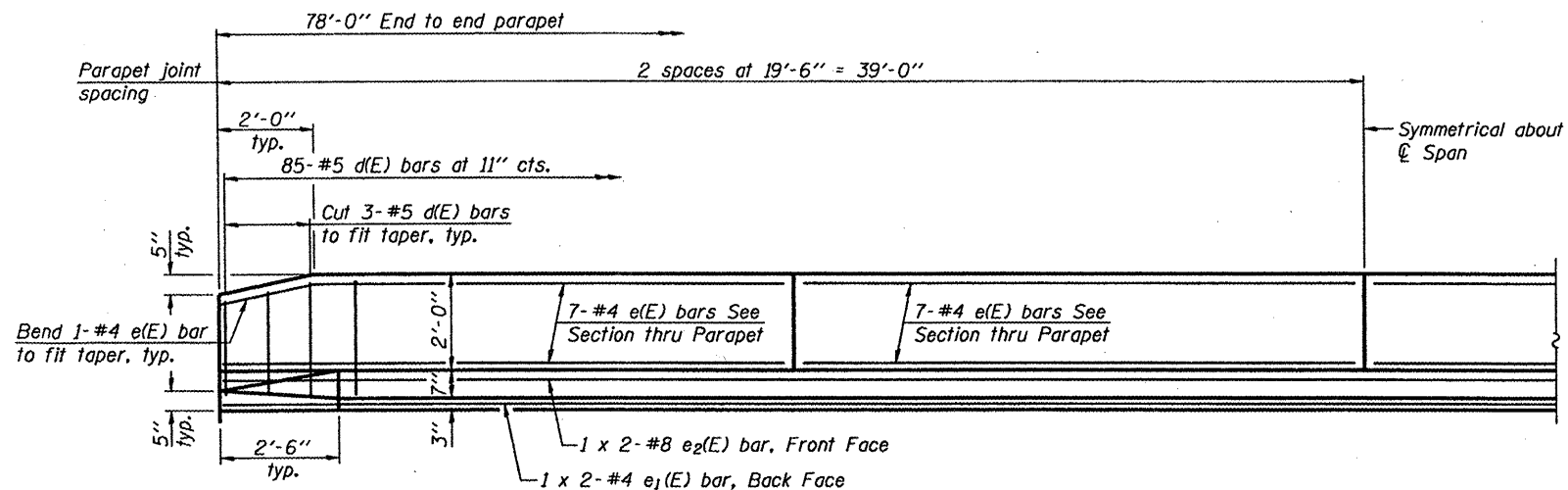
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SHEET NO. 6
SHEETS 17

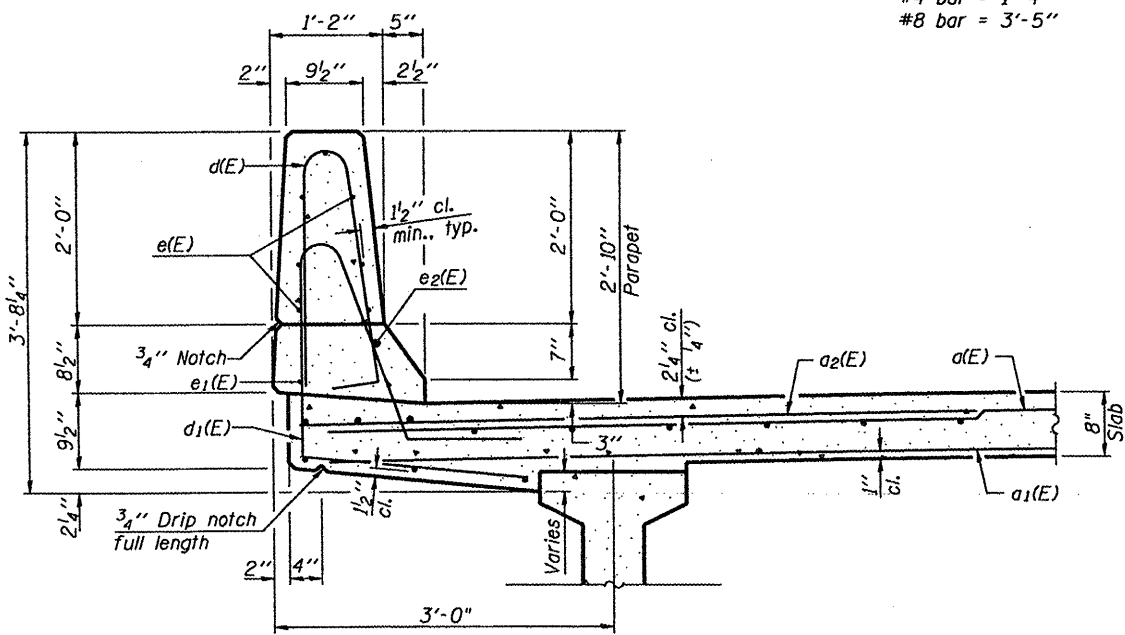
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-2	HENDERSON	490	433
CONTRACT NO. 88773				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

SUPERSTRUCTURE
STRUCTURE NO. 036-0069

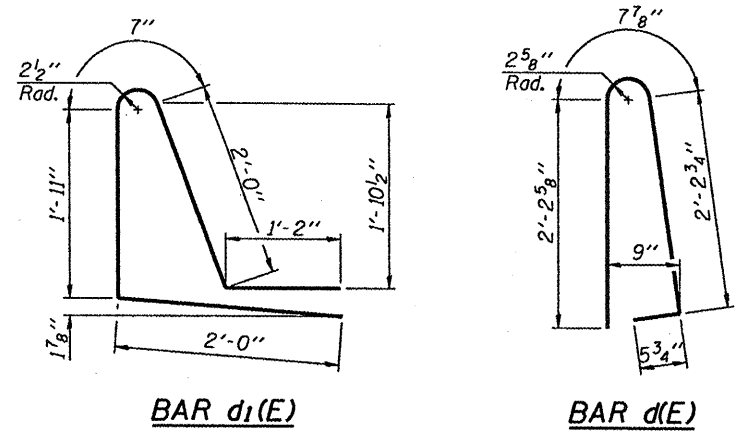


INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP
 (Parapet)
 #4 bar = 1'-4"
 #8 bar = 3'-5"

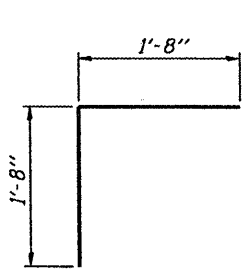


SECTION THRU PARAPET

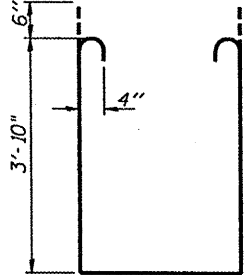


BAR d1(E)

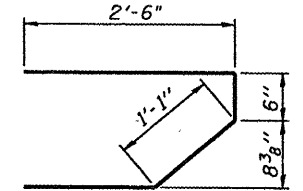
BAR d(E)



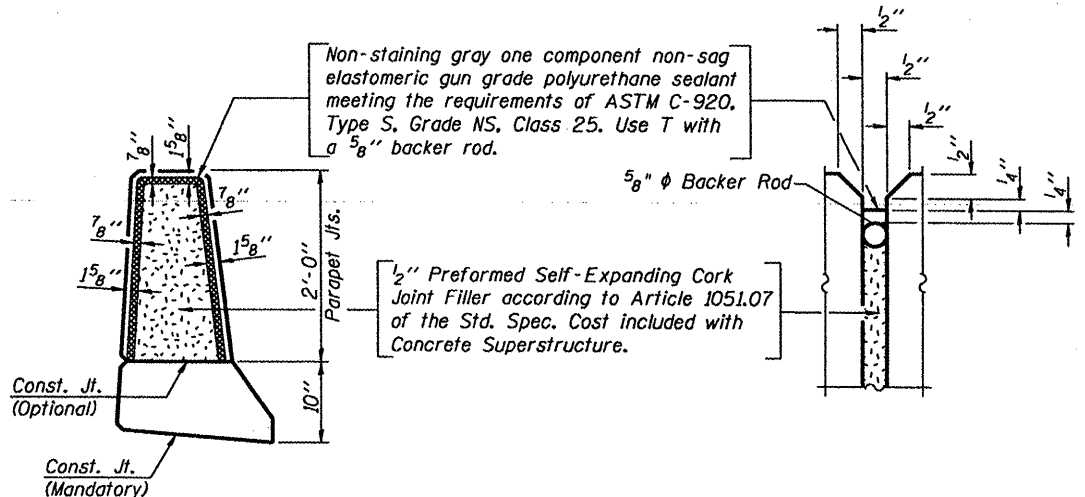
BAR v(E)



BAR s1(E)



BAR s(E)



PARAPET JOINT DETAILS

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	125	#5	34'-6"	—
a1(E)	94	#5	34'-2"	—
a2(E)	250	#6	6'-0"	—
a3(E)	4	#5	34'-10"	—
b(E)	152	#5	20'-8"	—
b1(E)	78	#5	27'-0"	—
d(E)	170	#5	5'-7"	—
d1(E)	170	#5	7'-8"	—
e(E)	56	#4	19'-2"	—
e1(E)	4	#4	39'-6"	—
e2(E)	4	#8	40'-7"	—
m(E)	4	#6	33'-1"	—
m1(E)	6	#6	34'-11"	—
m2(E)	24	#6	8'-2"	—
m3(E)	10	#6	3'-8"	—
m4(E)	4	#6	1'-9"	—
s(E)	72	#5	5'-7"	—
s1(E)	62	#4	10'-10"	—
v(E)	68	#5	3'-4"	—
Reinforcement Bars, Epoxy Coated		Lbs.	21,300	
Concrete Superstructure		Cu. Yds.	114.9	
Bar Splicers		Each	64	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

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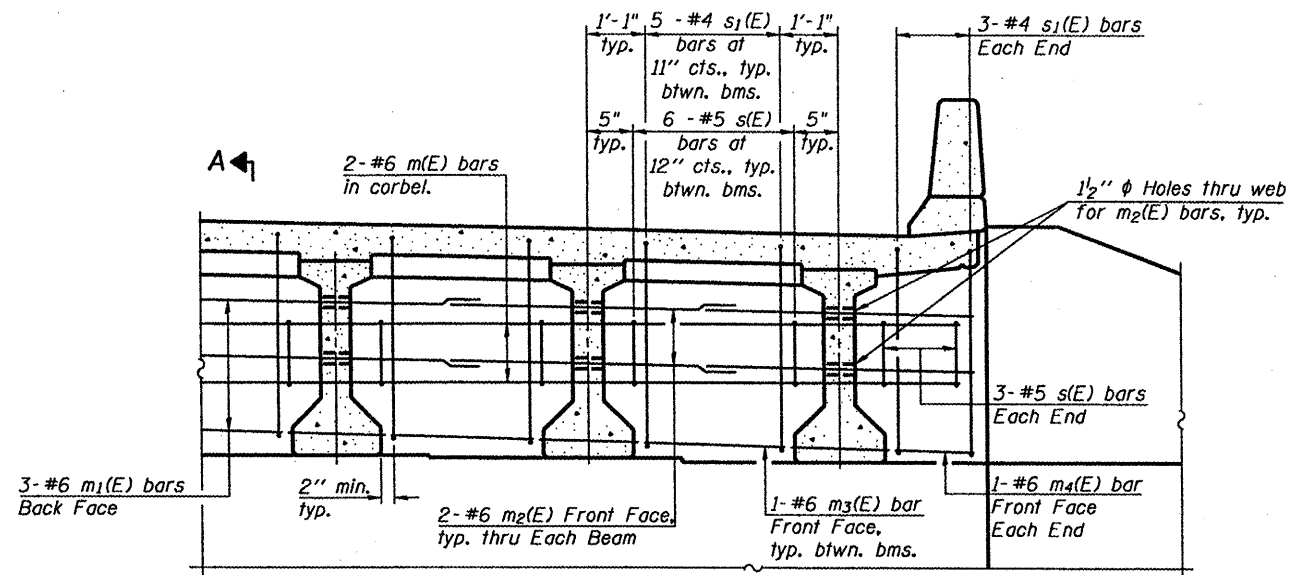


SHEET NO. 7
 SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 88773				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

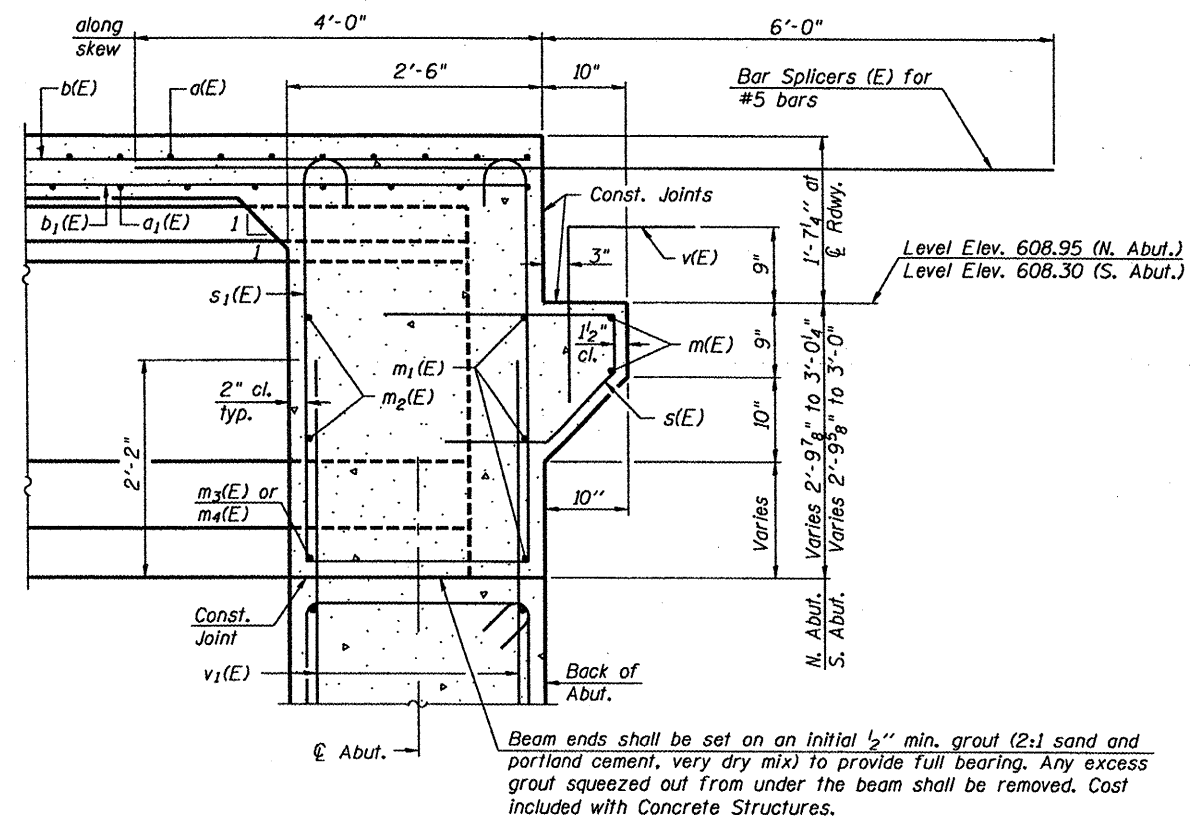
**SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 036-0069**

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DIAPHRAGM ELEVATION AT ABUTMENT

MIN. BAR LAP
#6 bar = 2'-9"



SECTION A-A

Dimensions at right angles to abutment, except as shown.

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 7 of 17.
Concrete in diaphragm is included with Concrete Superstructure on sheet 7 of 17.
For details of bars s(E) and s1(E) see sheet 7 of 17.
The s(E) and s1(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams.

Beam ends shall be set on an initial 1/2" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

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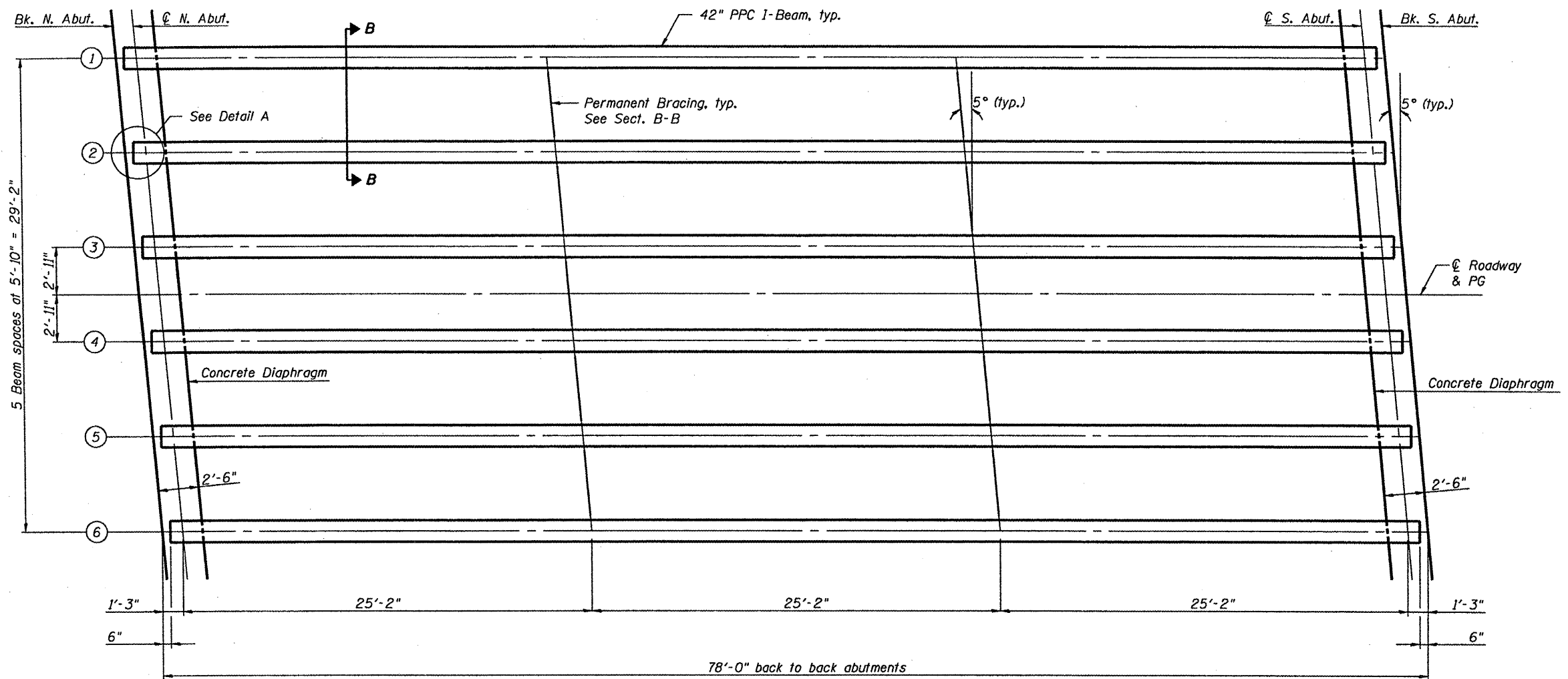


SHEET NO. 8
SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 88773				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

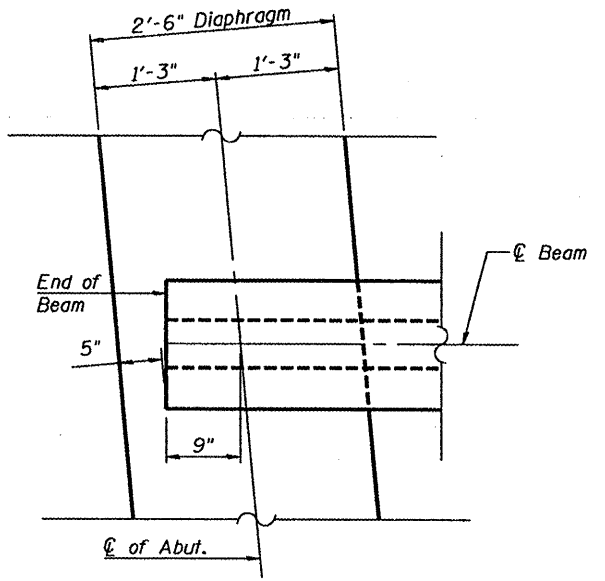
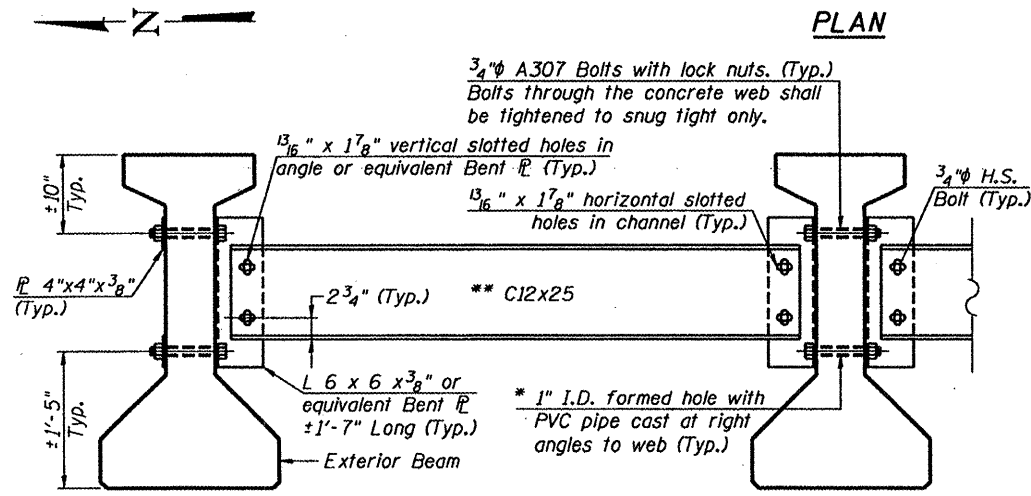
DIAPHRAGM DETAILS
STRUCTURE NO. 036-0069

Plotted by: jstein 1/21/2009 10:01:53 AM



		N. Abut.	S. Abut.
R _{DC1}	(k)	41.1	41.1
R _{DC2}	(k)	5.6	5.6
R _{DW}	(k)	11.0	11.0
R _{½ + Imp}	(k)	72.2	72.2
R _{Total}	(k)	129.9	129.9

		0.5 Sp. 1
I	(in ⁴)	90,956
I'	(in ⁴)	265,256
S _b	(in ³)	5,152.7
S _b '	(in ³)	8633
S _t	(in ³)	3,735.6
S _t '	(in ³)	23,526
DC1	(k/')	1.089
M _{DC1}	(k)	776
DC2	(k/')	0.150
M _{DC2}	(k)	107
DW	(k/')	0.292
M _{DW}	(k)	208
M _{½ + Imp}	(k)	1,076



NOTES:
 All materials for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
 Two hardened washers are required for each set of oversized holes. All holes shall be 1/16" unless otherwise noted.
 5/16" x 3" x 3" plate washers are required over all slotted holes. Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of furnishing and erecting prestressed beams. Calculated weight of structural steel = 1920 lbs

* Fabricator shall locate to miss strands within permissible tolerances.
 ** Alternate C12x30 channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on lighter section. The alternate, if utilized, shall be provided at no extra cost to the Department.

I: Non-composite moment of inertia of beam section (in⁴).
 I': Composite moment of inertia of beam section (in⁴).
 S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
 S_b': Composite section modulus for the bottom fiber of the prestressed beam (in³).
 S_t: Non-composite section modulus for the top fiber of the prestressed beam (in³).
 S_t': Composite section modulus for the top fiber of the prestressed beam (in³).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 M_{½ + Imp}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

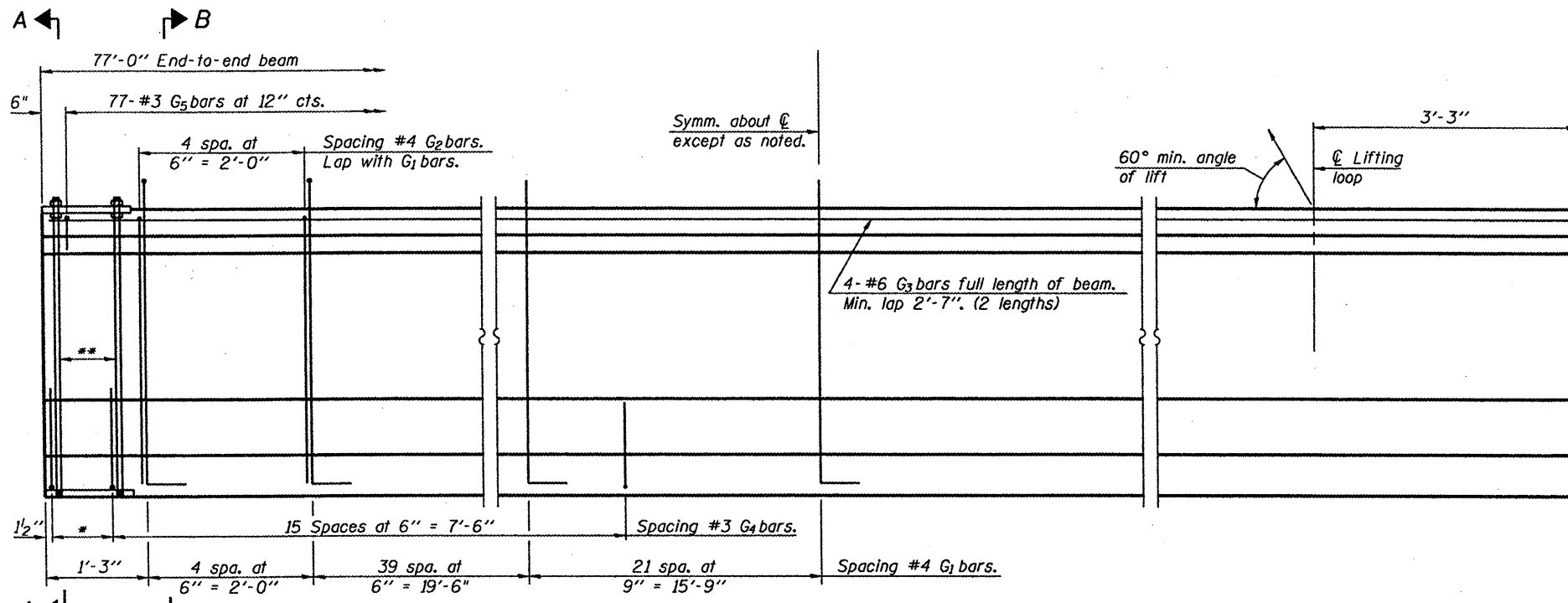
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SHEET NO. 9
 SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-2	HENDERSON	490	436
CONTRACT NO. 88773				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

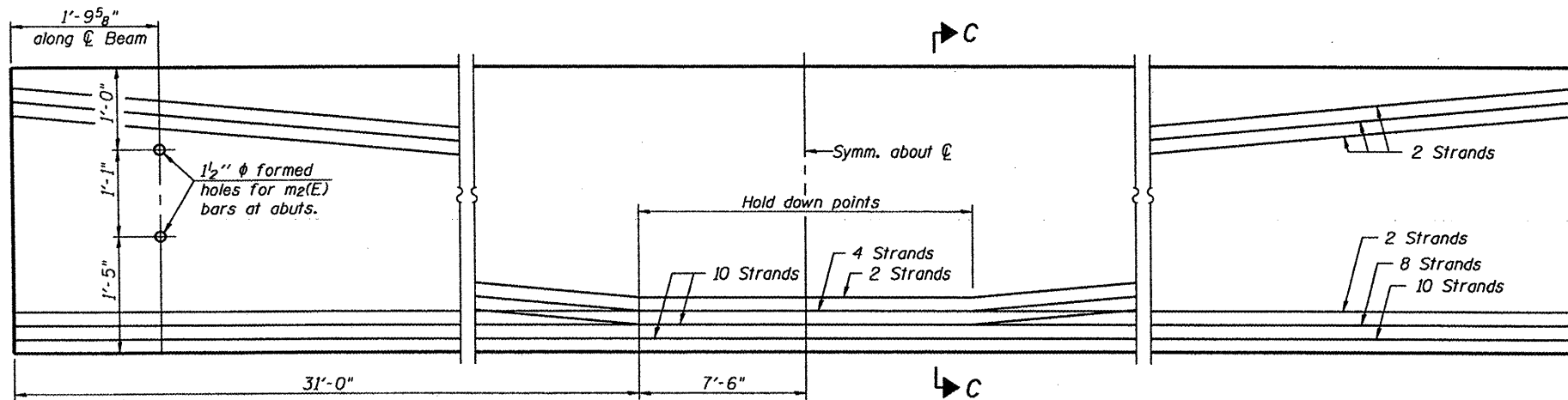
FRAMING PLAN
STRUCTURE NO. 036-0069



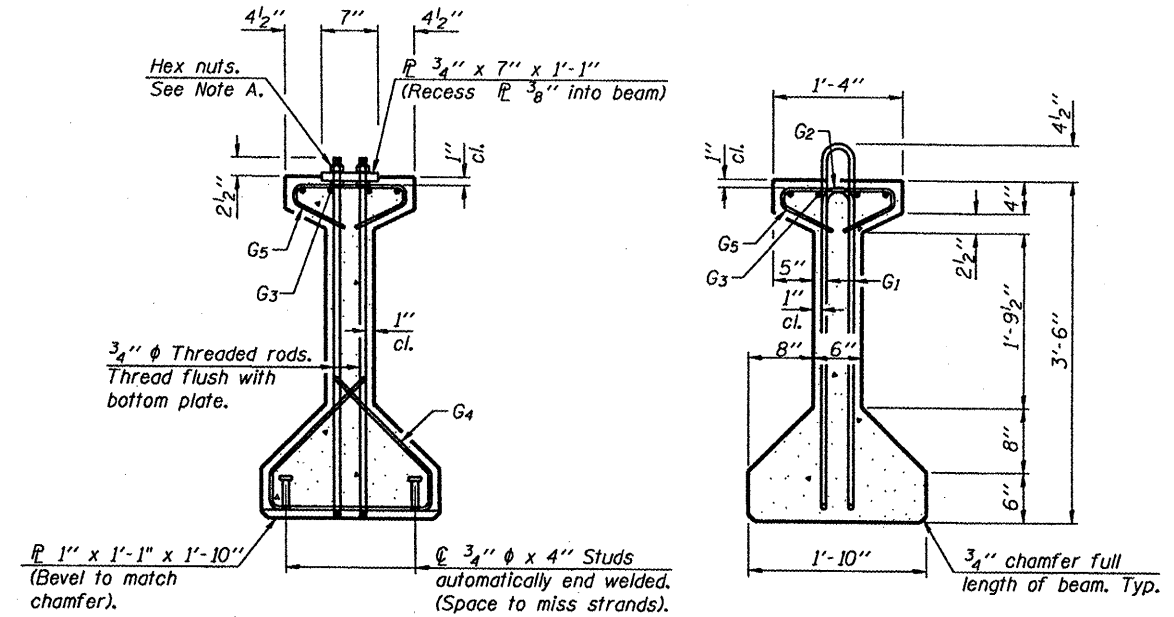
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

*3 spaces at 3" = 9".
**4-3/4" φ threaded dowel rods at 3' cts., Each Face.

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

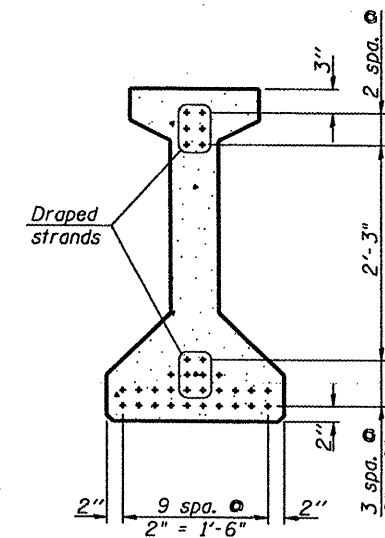


ELEVATION OF BEAM
(Showing prestressing steel)



SECTION A-A

SECTION B-B



SECTION C-C

*****BAR LIST**
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G ₁	129	#4	8'-5"	⏏
G ₂	10	#4	6'-8"	⏏
G ₃	8	#6	39'-6"	—
G ₄	38	#3	4'-11"	⏏
G ₅	77	#3	2'-6"	⏏

***For information only

Notes:
See sheet 11 of 17 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6,000 psi.

DESIGNED	MJJ
CHECKED	ALN
DRAWN	MJJ
CHECKED	ALN

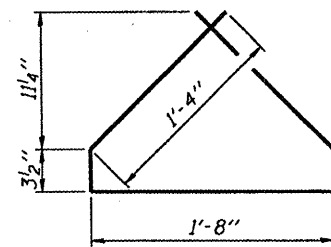
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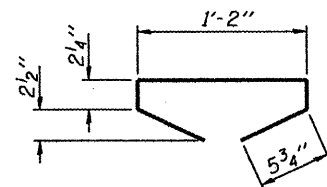
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SHEETS 17	CONTRACT NO. 88773		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		

42" PPC I-BEAM
STRUCTURE NO. 036-0069

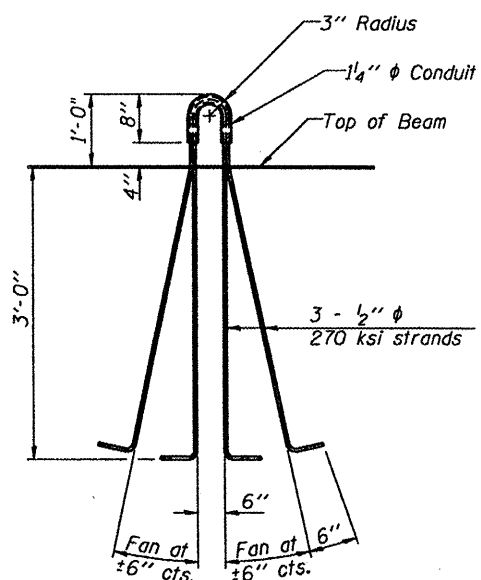
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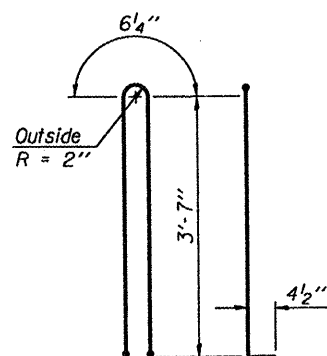
BAR G4



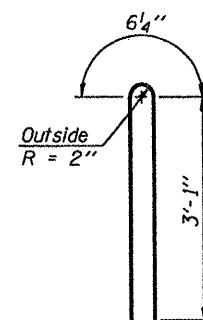
BAR G5



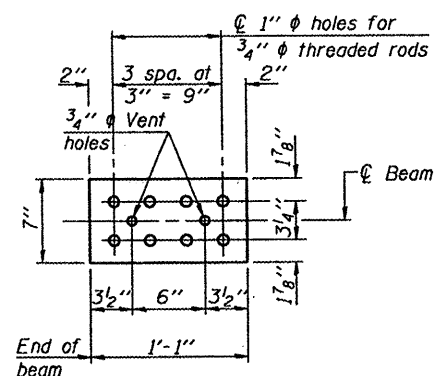
LIFTING LOOP DETAIL



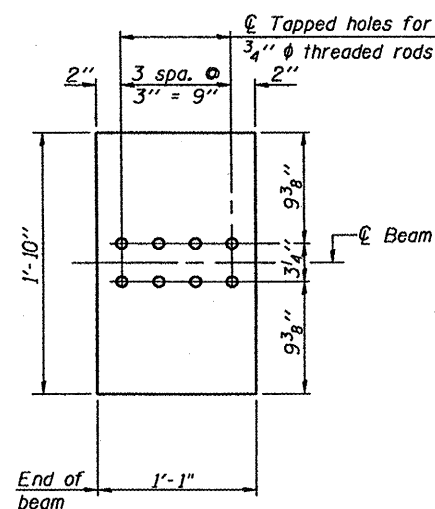
BAR G1



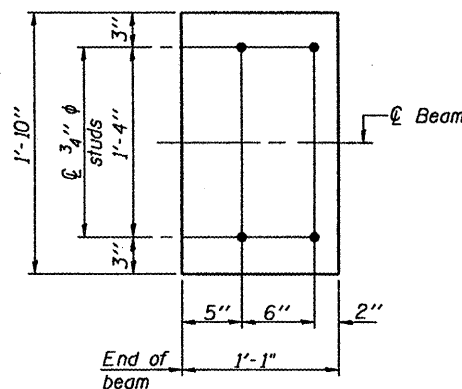
BAR G2



TOP PLATE



BOTTOM PLATE
(Showing threaded rods)



BOTTOM PLATE
(Showing studs)

See bearing details for pintle hole locations when required.

NOTES

Inserts for 3/4" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50. The bottom plates and studs shall be galvanized according to AASHTO M111. Threaded rods shall be ASTM F 1554 Grade 55.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42"	Ft.	462

DESIGNED	ASW
CHECKED	ALN
DRAWN	ASW
CHECKED	ALN

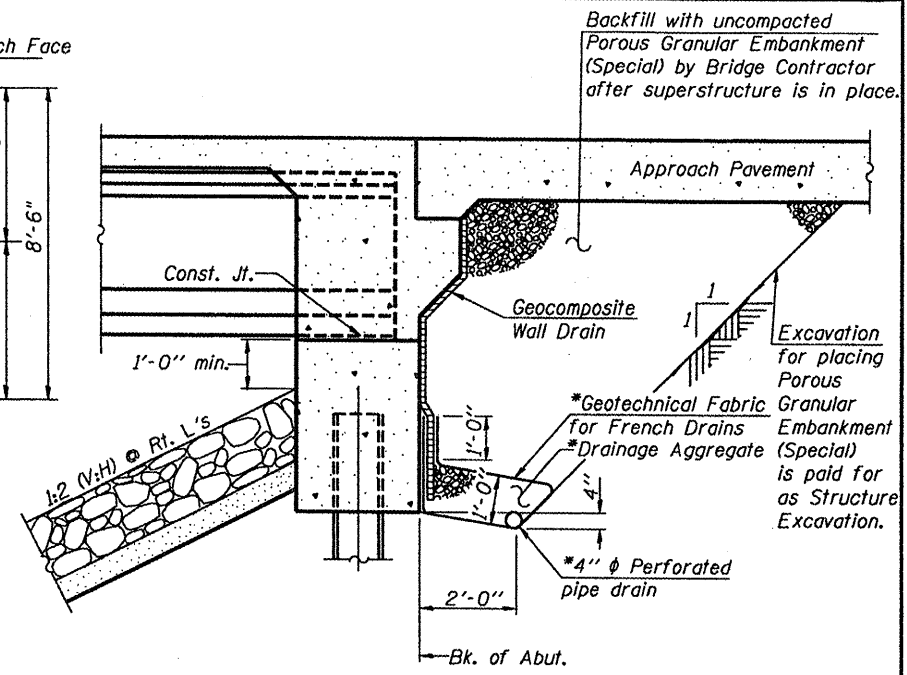
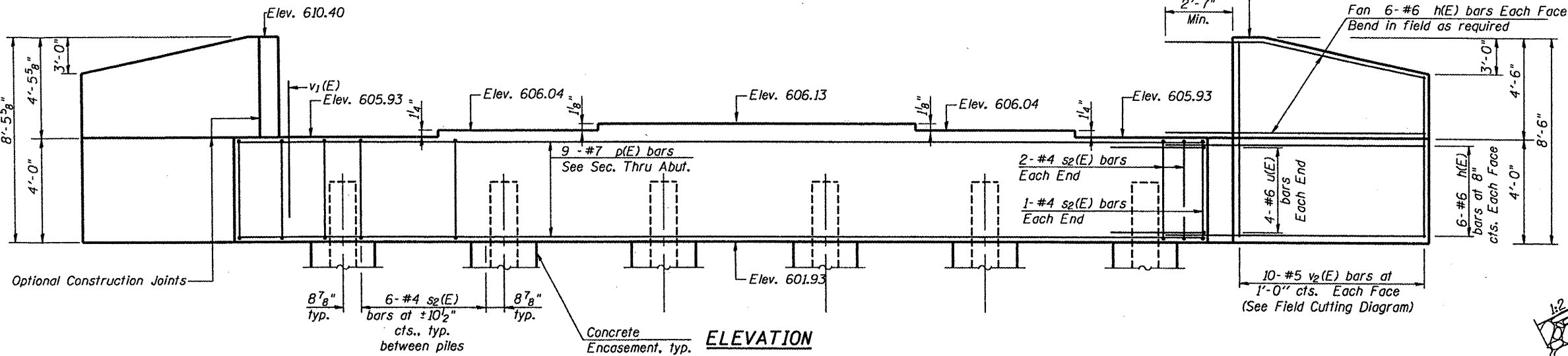
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SHEET NO. 11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SHEETS 17	CONTRACT NO. 88773				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT					

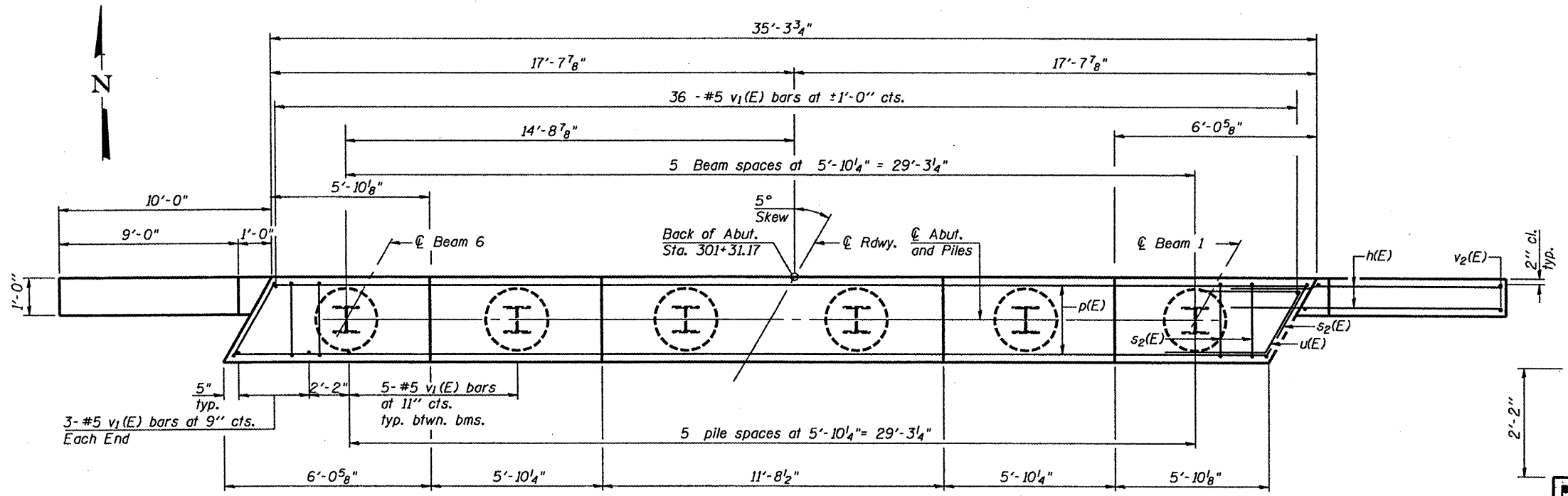
42" PPC I-BEAM DETAILS
 STRUCTURE NO. 036-0069

Notes: Pour steps monolithically with cap.



*Included in the cost of Pipe Underdrains for Structures.

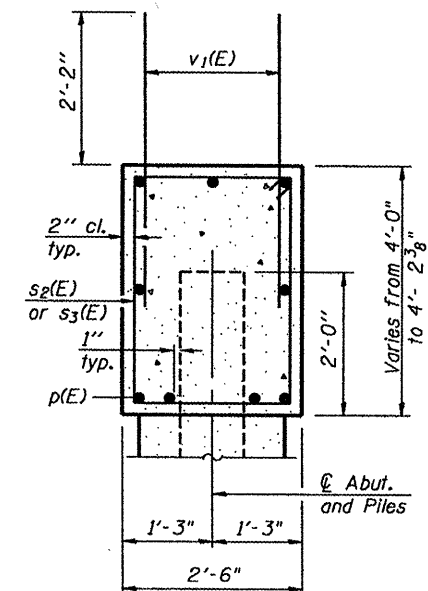
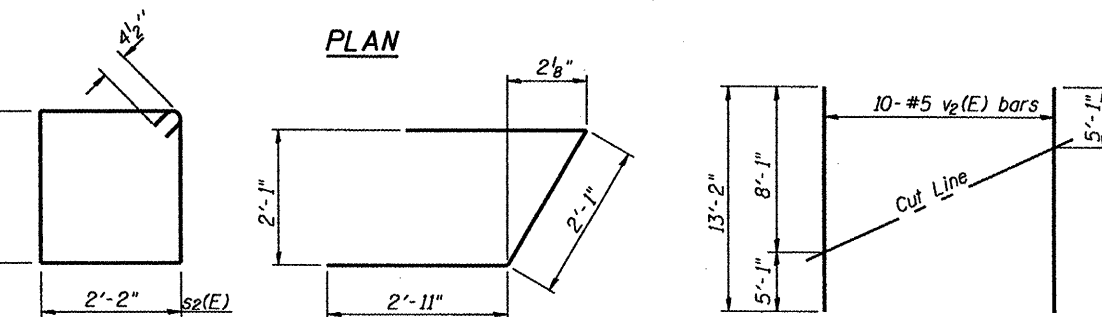
Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	48	#6	12'-7"	—
p(E)	9	#7	34'-11"	—
s ₂ (E)	36	#4	12'-5"	□
u(E)	8	#6	7'-11"	┘
v ₁ (E)	67	#5	4'-4"	—
v ₂ (E)	20	#5	13'-2"	—
Structure Excavation		Cu. Yd.	97	
Concrete Structures		Cu. Yd.	18.7	
Reinforcement Bars, Epoxy Coated		Pound	2520	
Furnishing Steel Piles, HPI2x53		Foot	420	
Driving Piles		Foot	420	
Test Pile, Steel HPI2x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

For details of piles and Concrete Encasement, see sheet 14 of 17.



PILE DATA

Type: HPI2x53
Nominal Required Bearing: 375 kips
Factored Resistance Available: 187.5 kips
Est. Length: 84 feet
No. Production Piles: 5
No. Test Piles: 1

Piles shall be driven through 18" diameter precored holes extending to elevation 593.5 according to Article 512.09(c) of the Standard Specifications. Piles shall be driven as soon as possible after precoring is completed. Cost included in driving piles.

DESIGNED	MJJ
CHECKED	ALN
DRAWN	ASW
CHECKED	ALN

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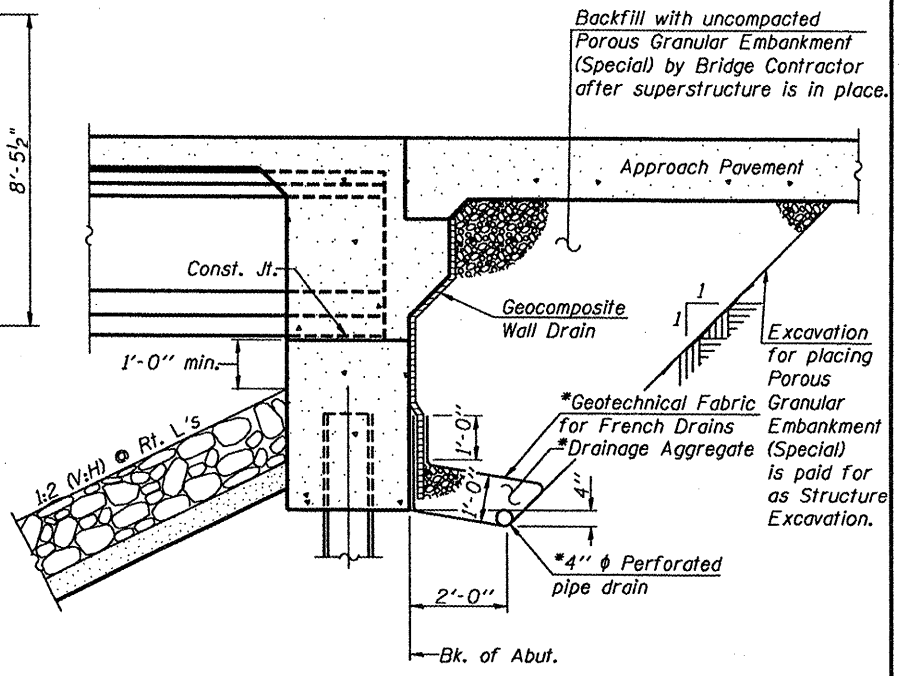
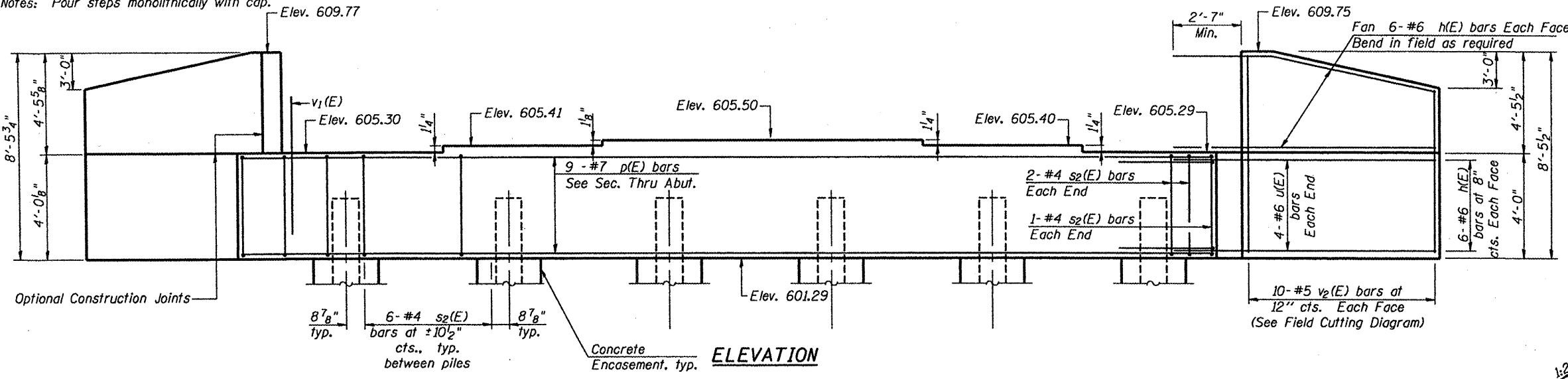
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SHEET NO. 12
SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-2	HENDERSON	490	439
CONTRACT NO.			88773	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

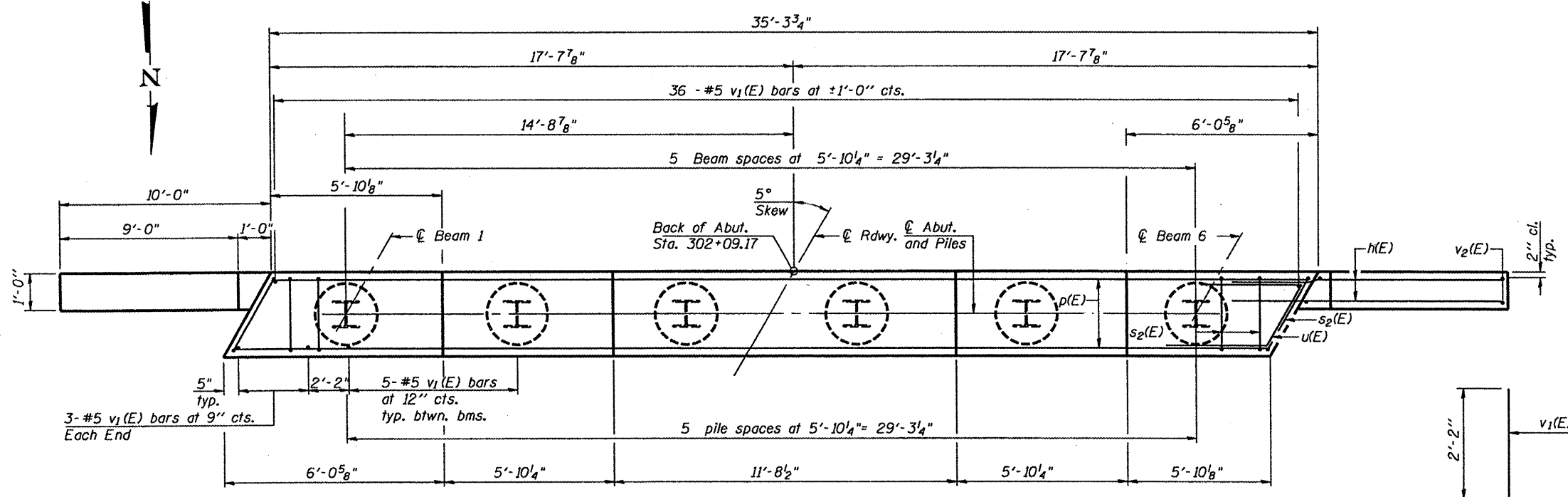
Notes: Four steps monolithically with cap.



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

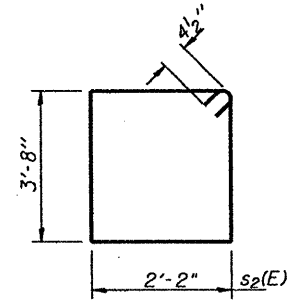
Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



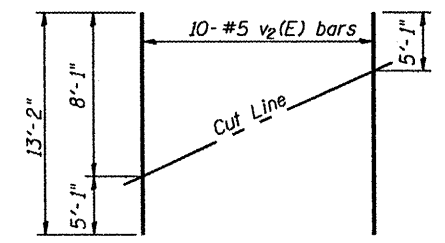
PLAN

PILE DATA

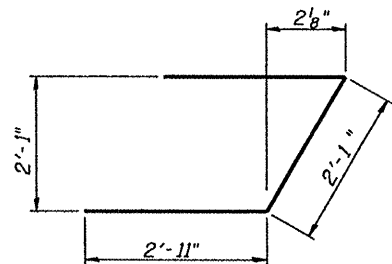
Type: HP12x53
Nominal Required Bearing: 375 kips
Factored Resistance Available: 187.5 kips
Est. Length: 81 feet
No. Production Piles: 6
No. Test Piles: 0
Piles shall be driven through 18" diameter precored holes extending to elevation 595.5 according to Article 512.09(c) of the Standard Specifications. Piles shall be driven as soon as possible after precoring is completed. Cost included in driving piles.



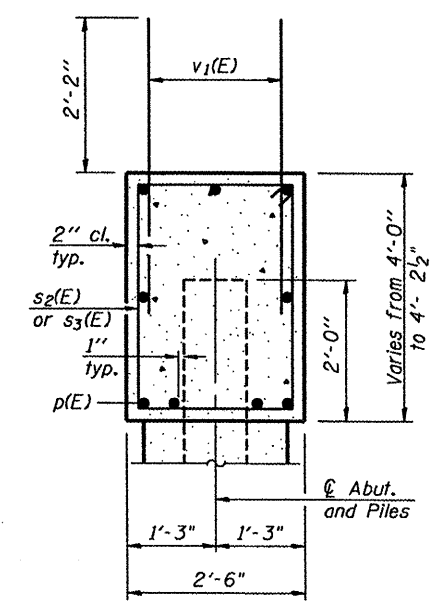
BARS s₂(E)



FIELD CUTTING DIAGRAM



BAR u(E)



SEC. THRU ABUT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	48	#6	12'-7"	—
p(E)	9	#7	34'-11"	—
s ₂ (E)	36	#4	12'-5"	□
u(E)	8	#6	7'-11"	┌
v ₁ (E)	67	#5	4'-4"	—
v ₂ (E)	20	#5	13'-2"	—
Structure Excavation	Cu. Yd.		97	
Concrete Structures	Cu. Yd.		18.7	
Reinforcement Bars, Epoxy Coated	Pound		2520	
Furnishing Steel Piles, HP12x53	Foot		486	
Driving Piles	Foot		486	
Concrete Encasement	Cu. Yd.		2.1	

For details of piles and Concrete Encasement, see sheet 14 of 17.

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 036-0069

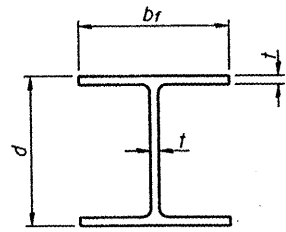
DESIGNED	MJJ
CHECKED	ALN
DRAWN	ASW
CHECKED	ALN

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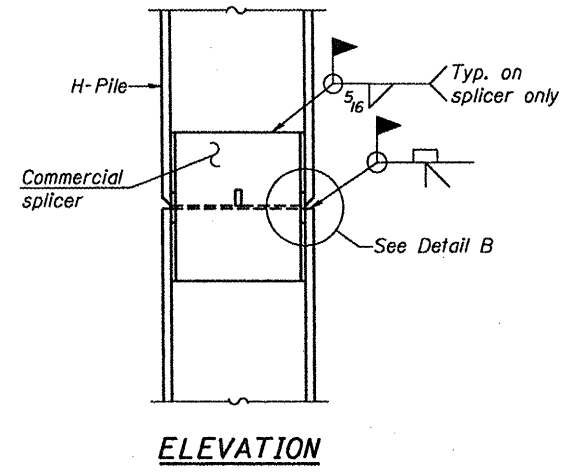
SHEET NO. 13
SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 88773				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

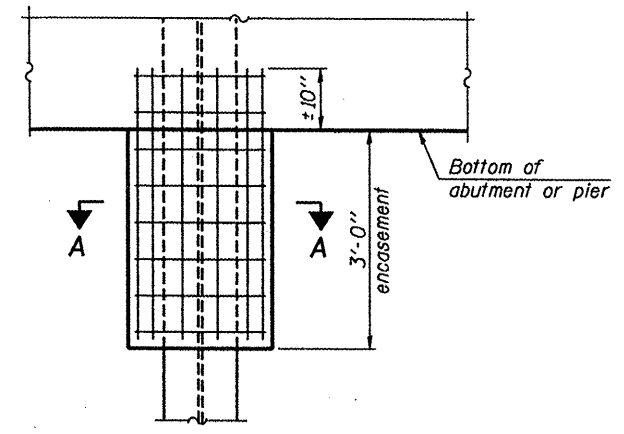


STEEL PILE TABLE

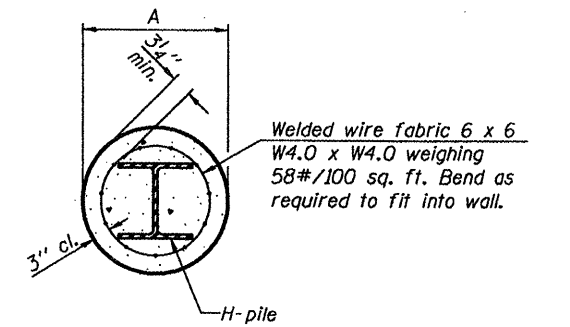
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION



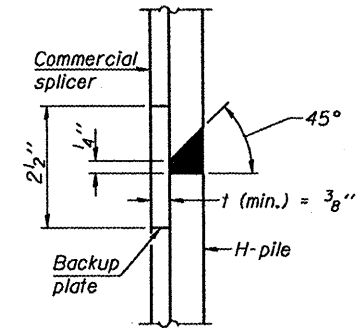
ELEVATION



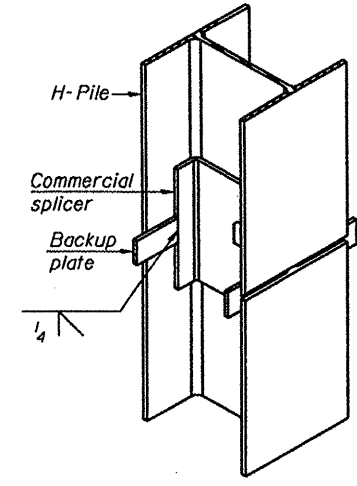
SECTION A-A

Note: Forms for encasement may be omitted when soil conditions permit.

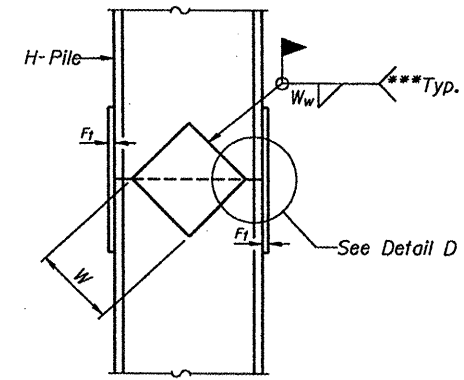
PILE ENCASEMENT



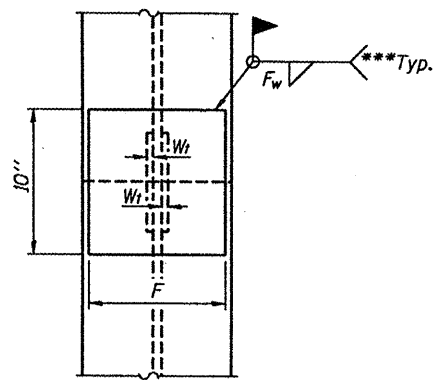
DETAIL "B"



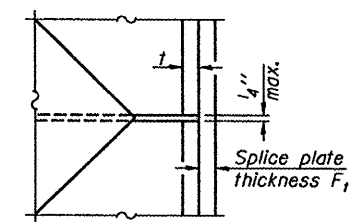
ISOMETRIC VIEW



ELEVATION



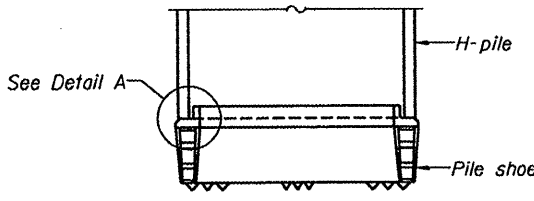
END VIEW



DETAIL D

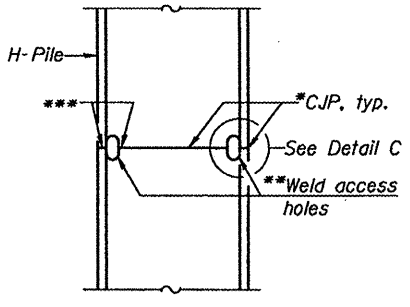
WELDED PLATE FIELD SPLICE

Designation	F	F ₁	F _w	W	W ₁	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



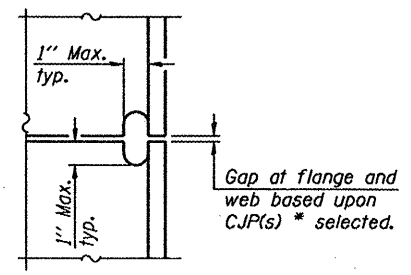
ELEVATION

H-PILE SHOE ATTACHMENT



ELEVATION

COMPLETE PENETRATION WELD SPLICE



DETAIL C

*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code-Steel.
 **Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code-Steel.
 ***Interrupt welds 1/4" from end of each pile.

Note: The steel H-piles shall be according to AASHTO M270 Grade 50.

DESIGNED	ASW
CHECKED	ALN
DRAWN	ASW
CHECKED	ALN

F-HP 5-16-08

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SHEET NO. 14
 SHEETS 17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	109BR-2	HENDERSON	490	441
CONTRACT NO. 88773				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

FOUNDATION DETAILS
 STRUCTURE NO. 036-0069

1/21/2008 10:02:22 AM

The diameter of this part is equal or larger than the diameter of bar spliced.

The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

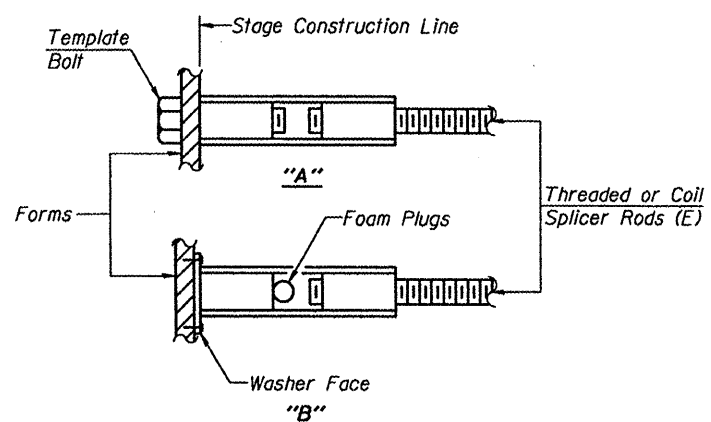
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



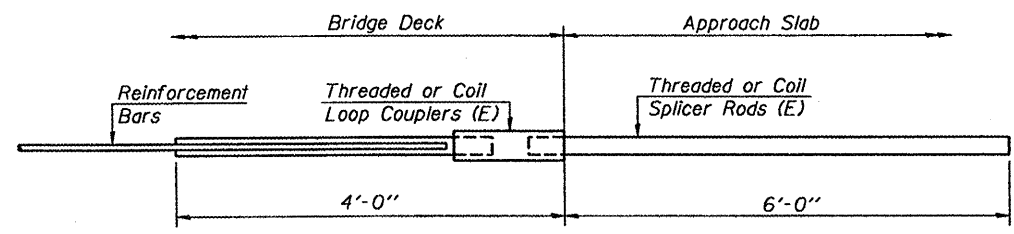
INSTALLATION AND SETTING METHODS

"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.

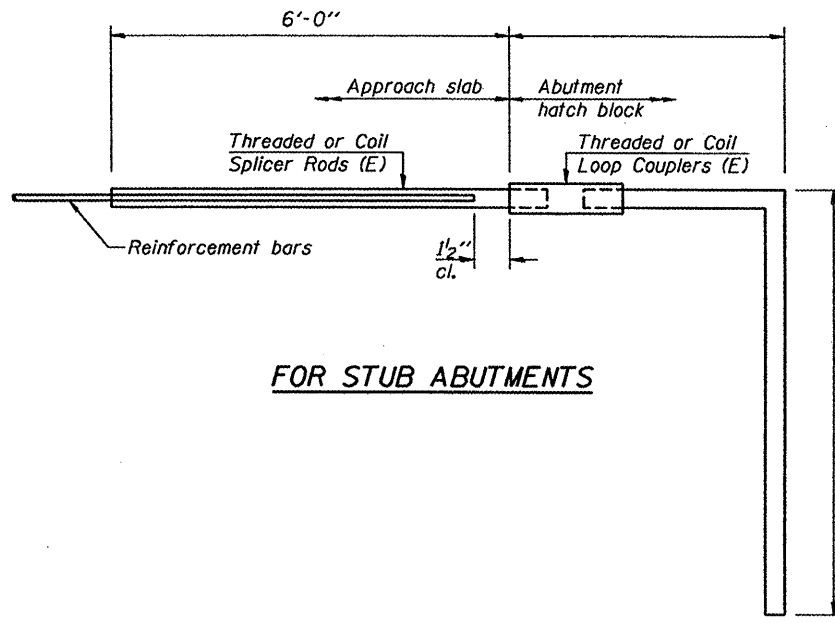
NOTES
 Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_s$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_s$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_s = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

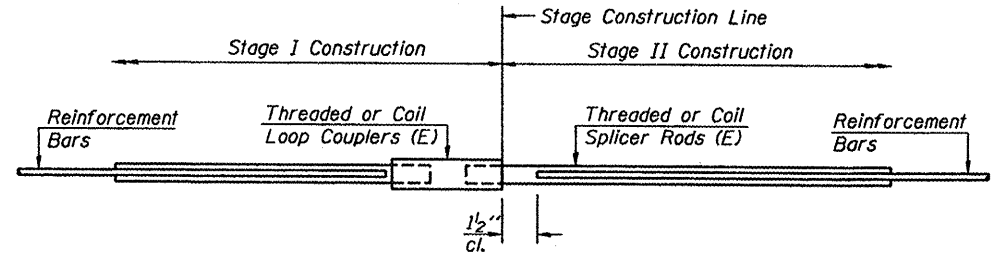
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



FOR STUB ABUTMENTS



STANDARD

Bar Size	No. Assemblies Required	Location

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 64

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =

DESIGNED MJJ
CHECKED ALN
DRAWN MJJ
CHECKED ALN

BSD-1 5-16-08

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SHEET NO. 15
 SHEETS 17

F.A.P. RTE. 534	SECTION 109BR-2	COUNTY HENDERSON	TOTAL SHEETS 490	SHEET NO. 442
CONTRACT NO. 88773			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT	

**BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 036-0069**

1/21/2009 10:02:28 AM
 Plotted by: jstein



SOIL BORING LOG

Date 11/21/06

ROUTE F.A. 87 (IL Rt 94) DESCRIPTION IL 94 Over Middle Creek, 1mi. N. of Stronghurst LOGGED BY SCI (BCR)

SECTION 109 BR-2 LOCATION SEC. 13, TWP. 9N. RNG. 5W

COUNTY Henderson DRILLING METHOD CME 850 w/HSA HAMMER TYPE Automatic

Table with columns for DEPTH, BLOW COUNTS (H, S, Qu), and SOIL DESCRIPTION. Includes data for Surface Water Elev., Stream Bed Elev., and Groundwater Elev. with associated blow counts and penetration values.

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, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 11/21/06

ROUTE F.A. 87 (IL Rt 94) DESCRIPTION IL 94 Over Middle Creek, 1mi. N. of Stronghurst LOGGED BY SCI (BCR)

SECTION 109 BR-2 LOCATION SEC. 13, TWP. 9N. RNG. 5W

COUNTY Henderson DRILLING METHOD CME 850 w/HSA HAMMER TYPE Automatic

Table with columns for DEPTH, BLOW COUNTS (H, S, Qu), and SOIL DESCRIPTION. Includes data for Surface Water Elev., Stream Bed Elev., and Groundwater Elev. with associated blow counts and penetration values.

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, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 11/21/06

ROUTE F.A. 87 (IL Rt 94) DESCRIPTION IL 94 Over Middle Creek, 1mi. N. of Stronghurst LOGGED BY SCI (BCR)

SECTION 109 BR-2 LOCATION SEC. 13, TWP. 9N. RNG. 5W

COUNTY Henderson DRILLING METHOD CME 850 w/HSA HAMMER TYPE Automatic

Table with columns for DEPTH, BLOW COUNTS (H, S, Qu), and SOIL DESCRIPTION. Includes data for Surface Water Elev., Stream Bed Elev., and Groundwater Elev. with associated blow counts and penetration values.

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, from 137 (Rev. 8-99)

DESIGNED MJJ CHECKED ALN DRAWN MJJ CHECKED ALN

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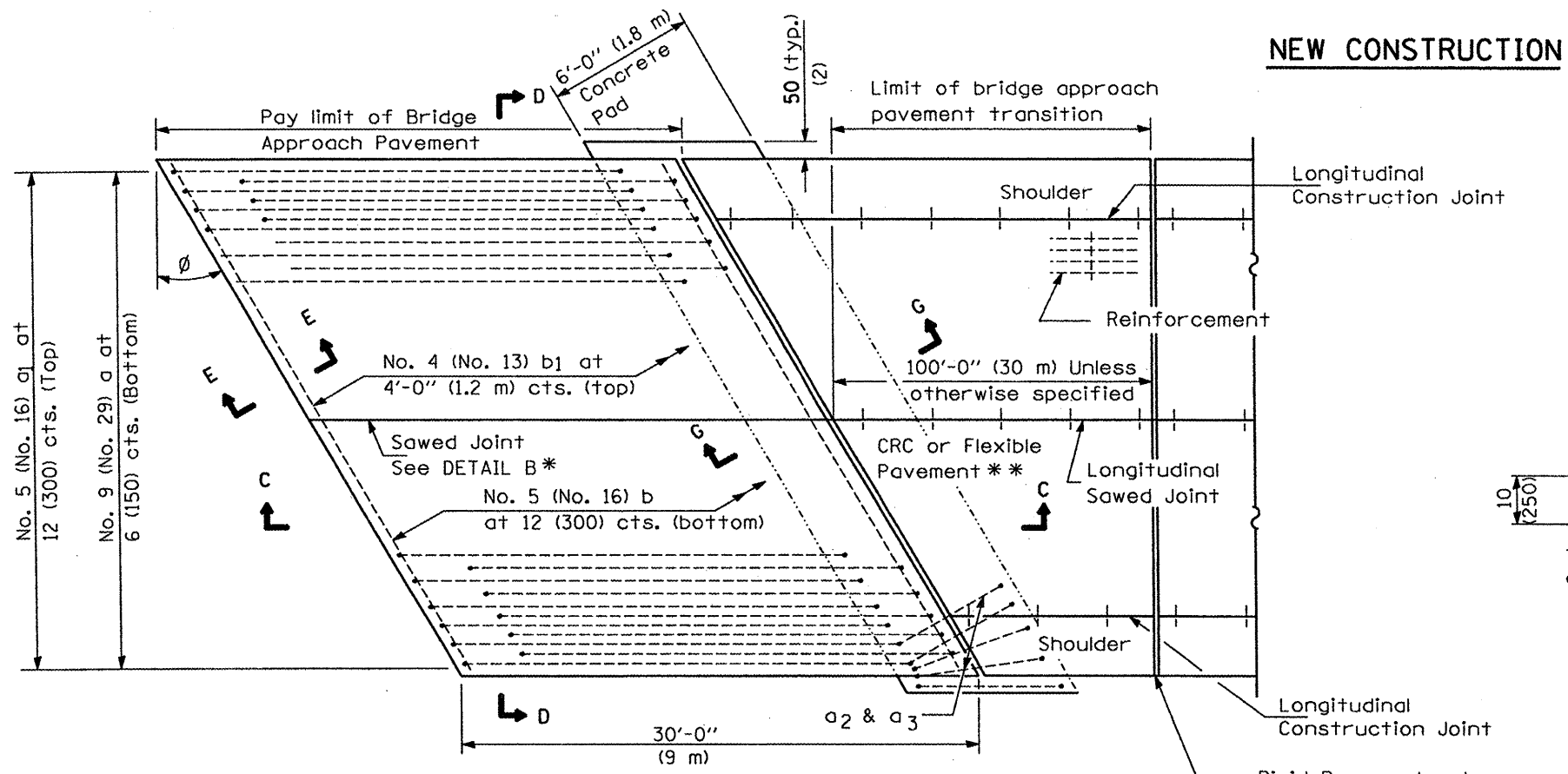
SHEET NO. 17 SHEETS 17

Table with columns: F.A.P. RTE. (534), SECTION (109BR-2), COUNTY (HENDERSON), TOTAL SHEETS (490), SHEET NO. (444), CONTRACT NO. (88773)

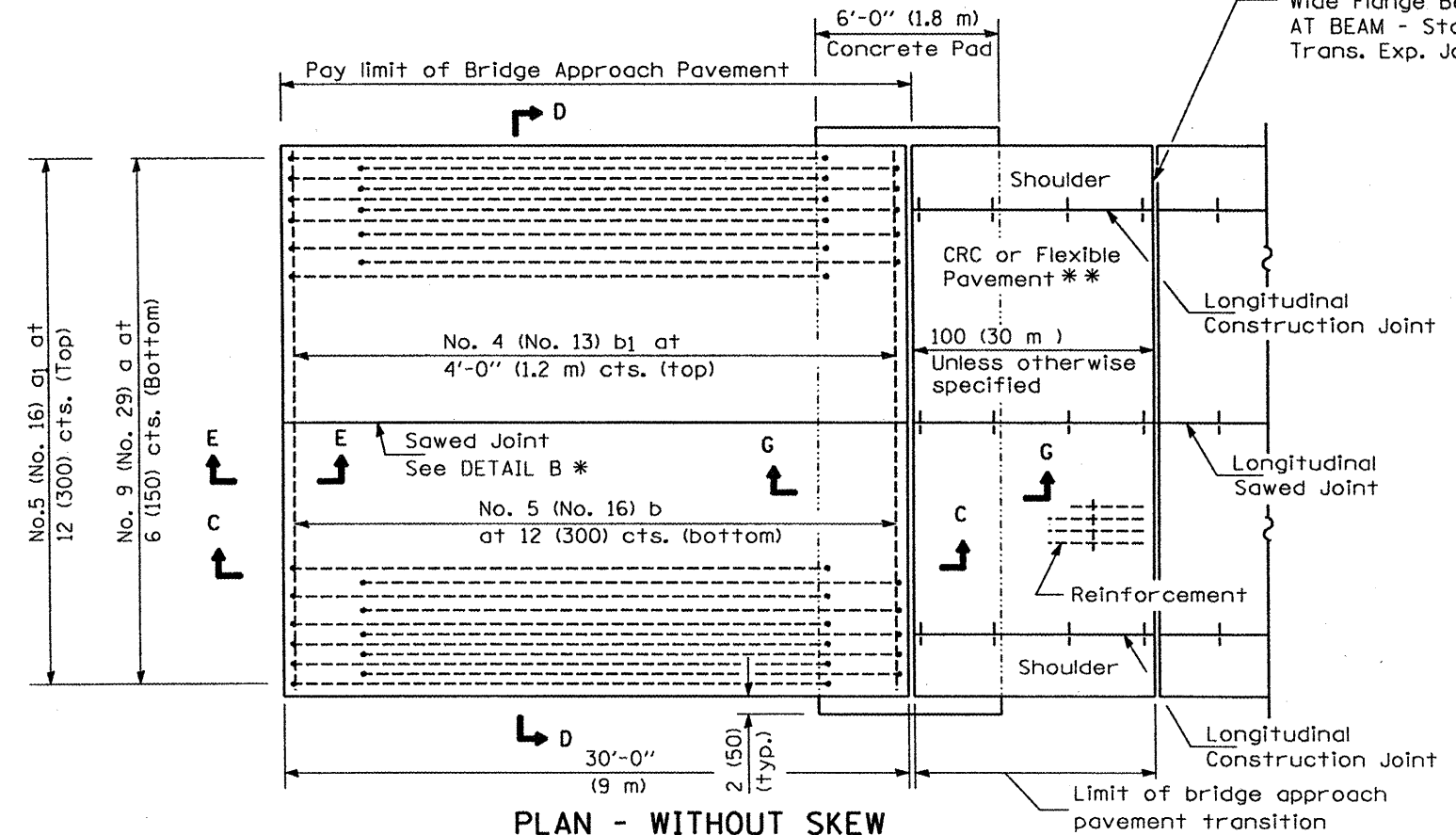
SOIL BORING LOG B-2 STRUCTURE NO. 036-0069

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT

1/21/2009 10:03:15 AM

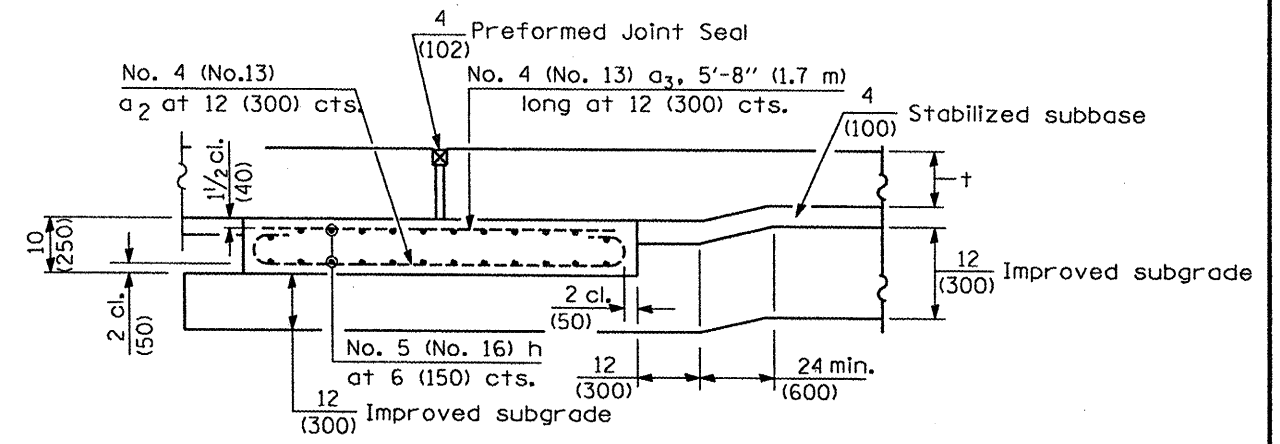
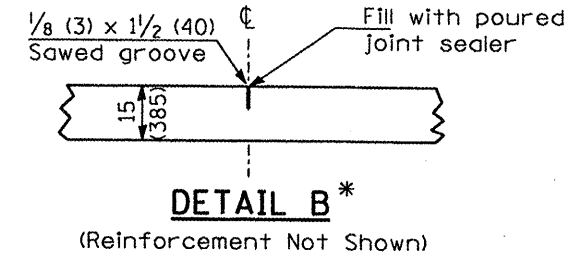


PLAN - WITH SKEW



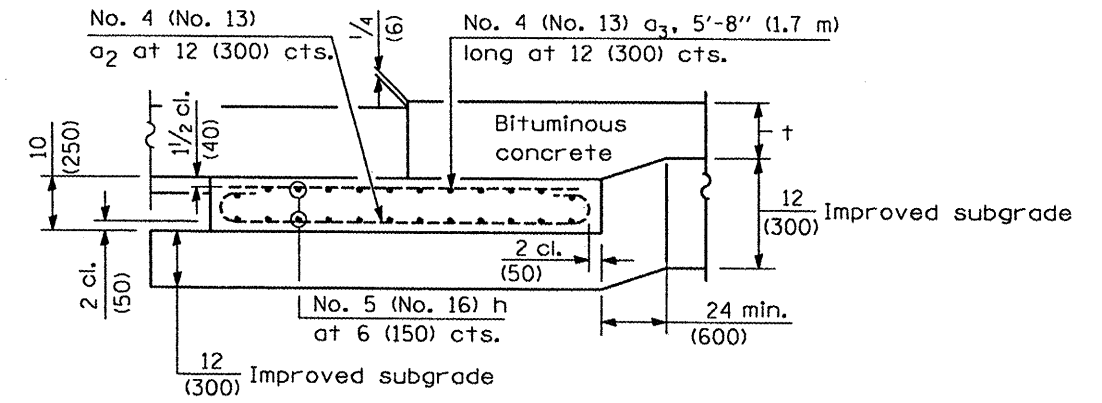
PLAN - WITHOUT SKEW

NEW CONSTRUCTION



SECTION G-G - RIGID PAVEMENT
(Showing reinforcement)

Rigid Pavement only:
Wide Flange Beam Terminal Joint (See DETAIL AT BEAM - Standard 421101 or 421106) or 2 (50)
Trans. Exp. Joint as detailed on Standard 420001.



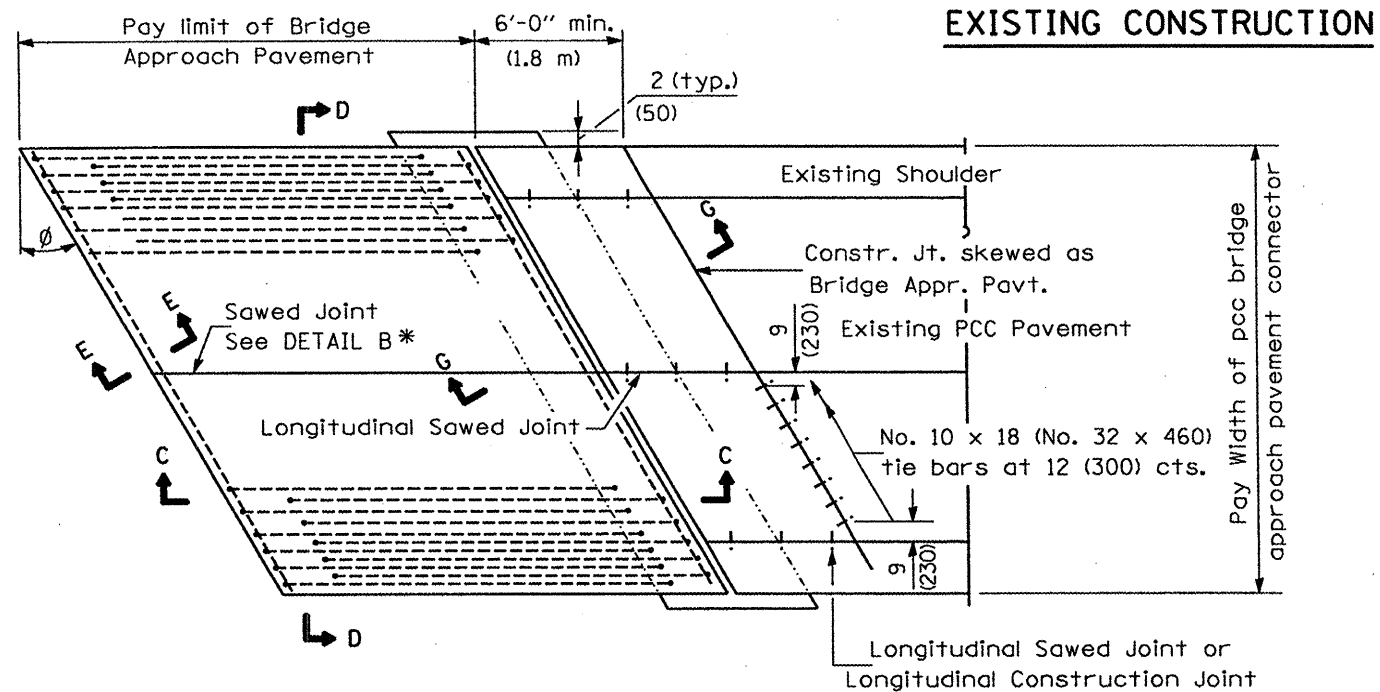
SECTION G-G - FLEXIBLE PAVEMENT
(Showing reinforcement)

GENERAL NOTES

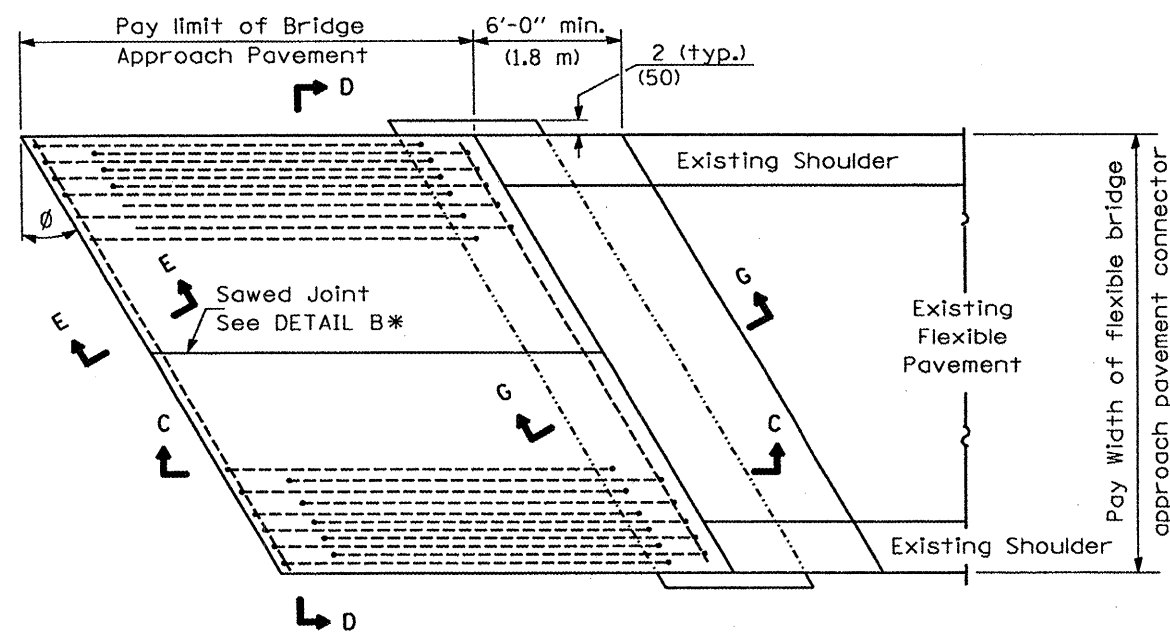
THICKNESS-"t"=Thickness of Pavement.
See Standard 421001 for reinforcement details not shown.
See Standard 420001 for joint details not shown.
All dimensions are in inches (millimeters) unless otherwise shown.

* Saw \perp or lane edge if poured two or more lane widths at a time.
** Omit Reinforcement, tie bars and Long. sawed Jt. for Flexible Pavement.

FILE NAME =	USER NAME = jstein	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\050301\dgn\CADD SHEETS\0488773-sht-29-032-details-approachslab.dgn	DRAWN - JWS	REVISED -	534			R136.137W&RS-3i136Ri109BR-2	HENDERSON	490	445	
PLOT SCALE = 1/8"=1'-0" (1:48)	CHECKED - SJK	REVISED -	CONTRACT NO. 88773							
PLOT DATE = 1/21/2009	DATE - 1/21/2009	REVISED -	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							
					SCALE: 1" = 50'	SHEET NO. 1 OF 4 SHEETS		STA.	TO STA.	

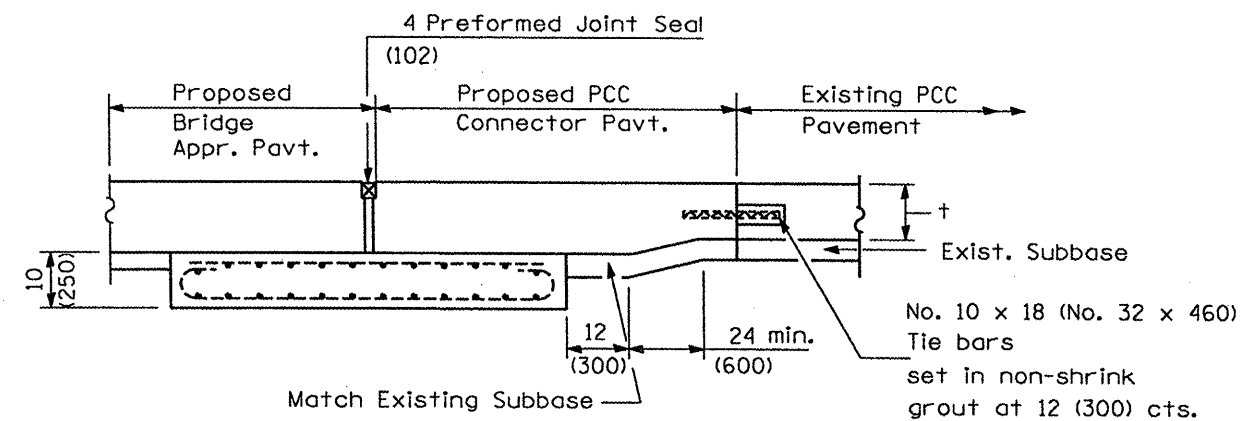


BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

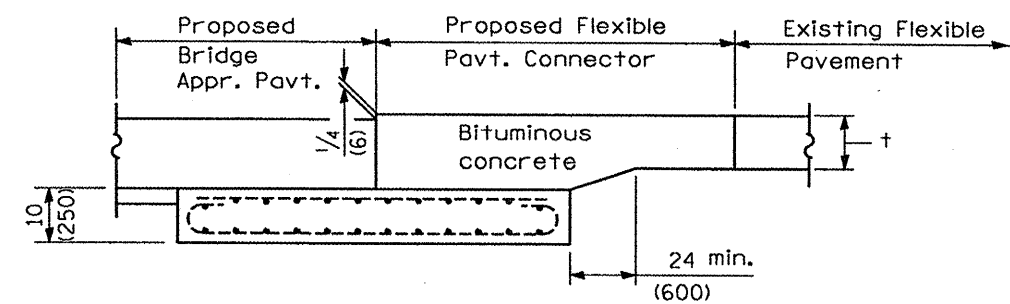


BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

EXISTING CONSTRUCTION

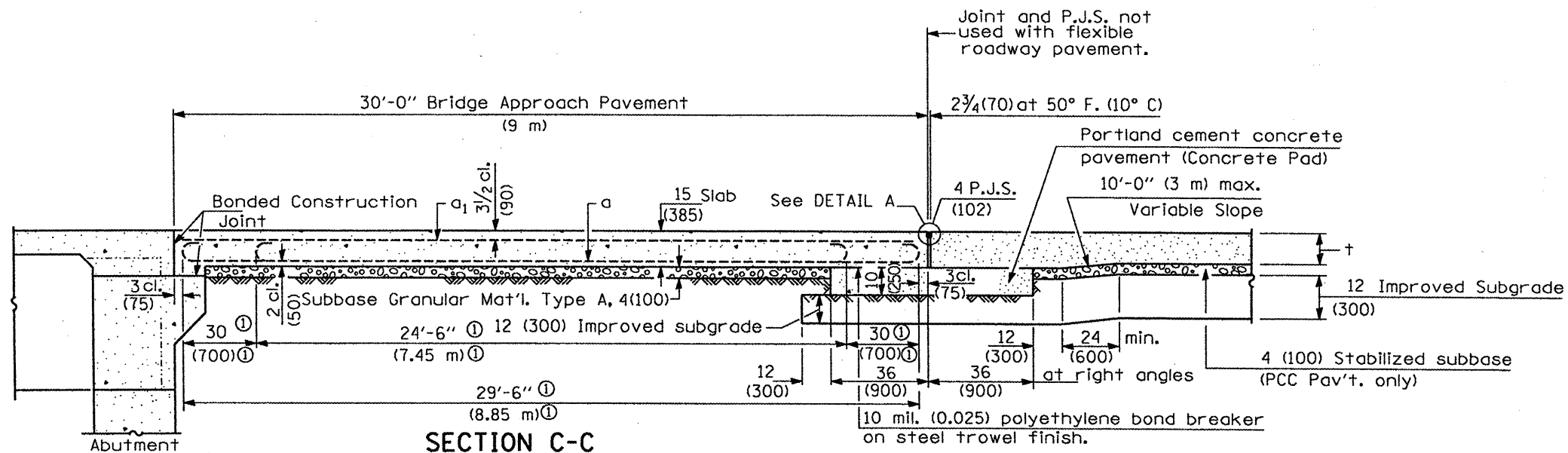


SECTION G-G - RIGID PAVEMENT

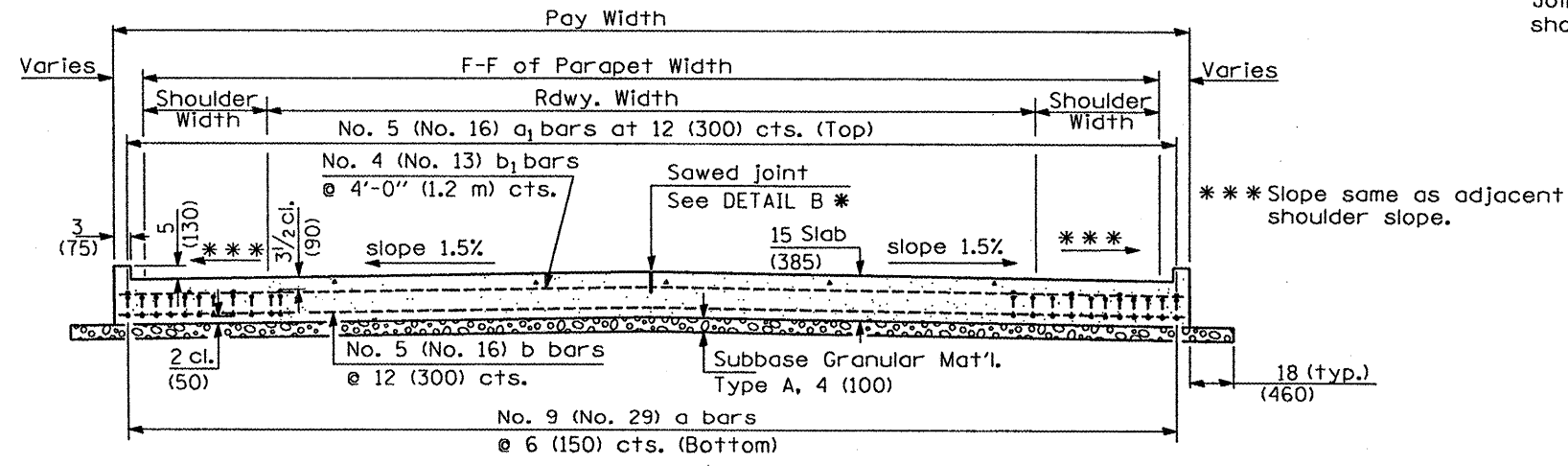
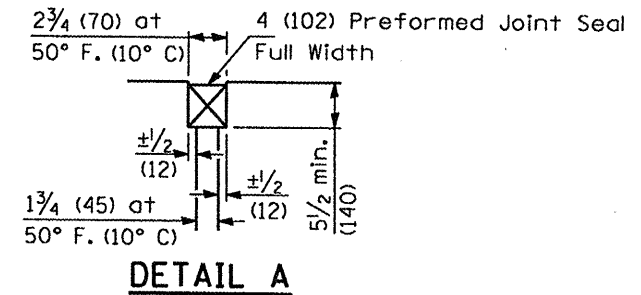
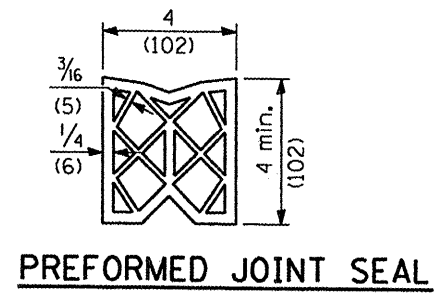


SECTION G-G - FLEXIBLE PAVEMENT

FILE NAME = P:\056381\dgn\CADD SHEETS\0488773-sh2-029-032-details-approachlab.dgn	USER NAME = jstain	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/8" = 1' / IN.	DRAWN - JWS	REVISED -				534	1136.137W&RS-3(136R)109BR-2	HENDERSON	490	446
	PLOT DATE = 1/21/2009	CHECKED - SJK	REVISED -				CONTRACT NO. 88773				
	DATE = 1/21/2009	DATE = 1/21/2009	REVISED -				FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				
				SCALE: 1" = 50'	SHEET NO. 2 OF 4 SHEETS	STA. TO STA.					

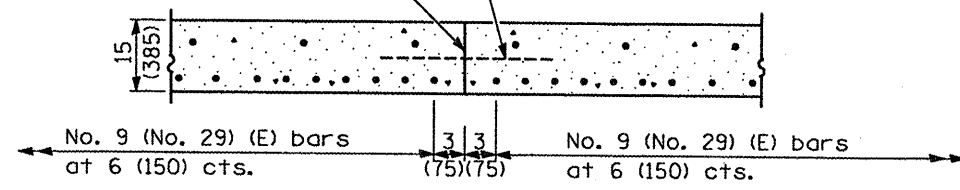


SECTION C-C
 ① Stagger No. 9 (No. 29) a bars as shown on plan - full width



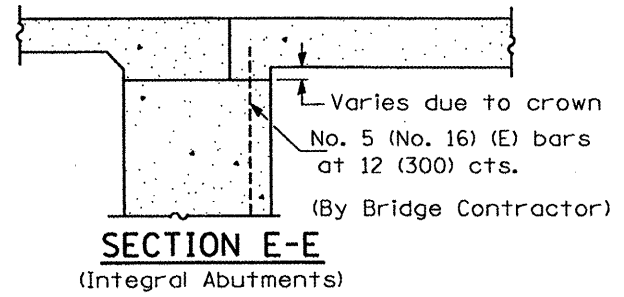
SECTION D-D
 (See Plan for Dimensions not shown)

Longitudinal Construction Joint in accordance with details shown on Standard 420001.

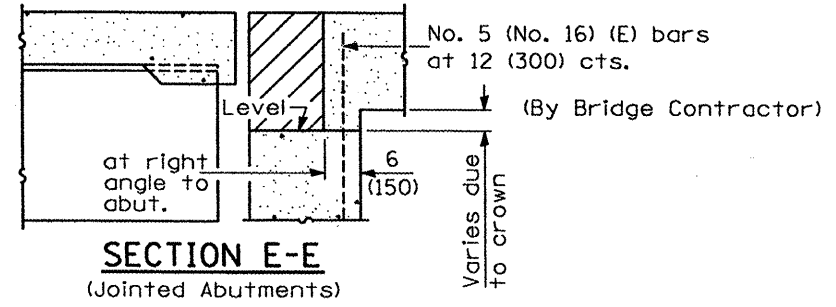


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

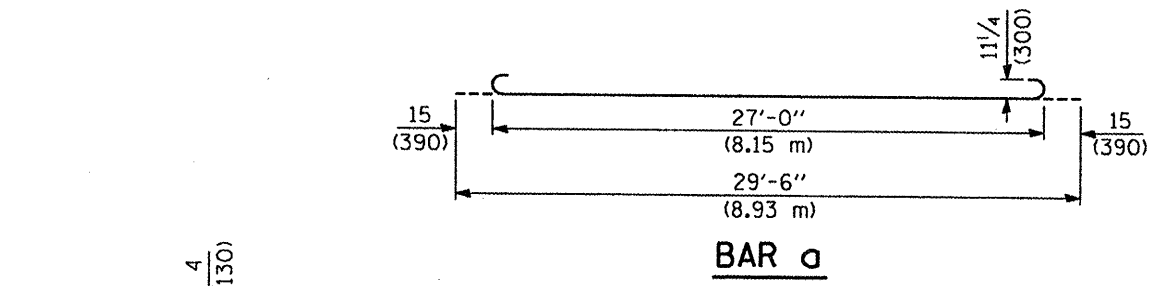
As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



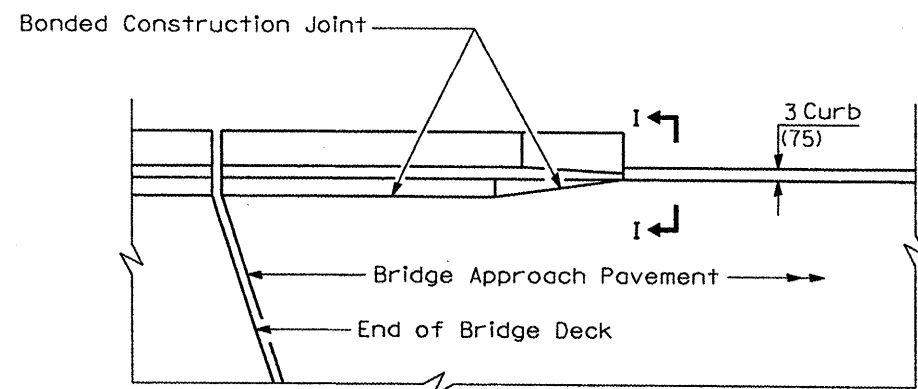
SECTION E-E
 (Integral Abutments)



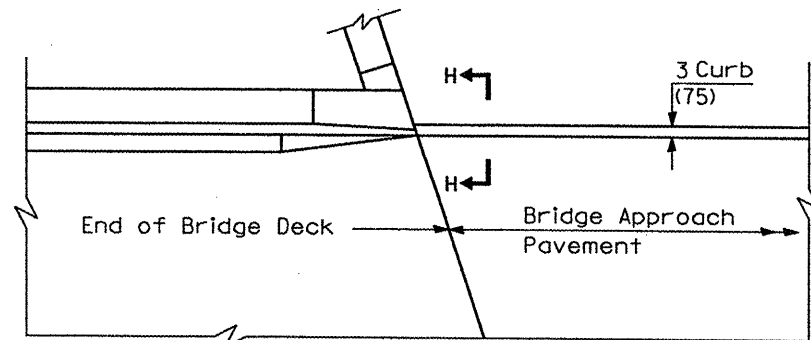
SECTION E-E
 (Jointed Abutments)



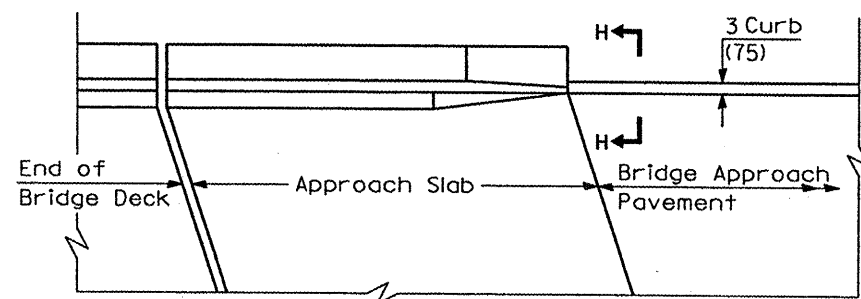
DESIGN STRESSES
 fy = 60,000 p.s.i. (400 MPa)
 f'c = 3,500 p.s.i. (24 MPa)
 n = 8.5



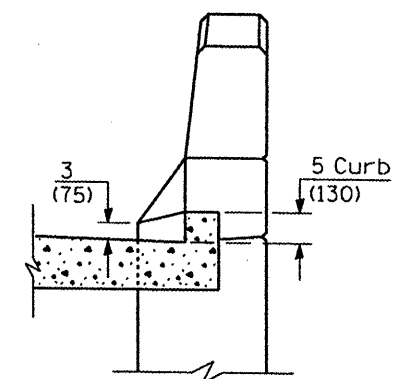
**PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT**



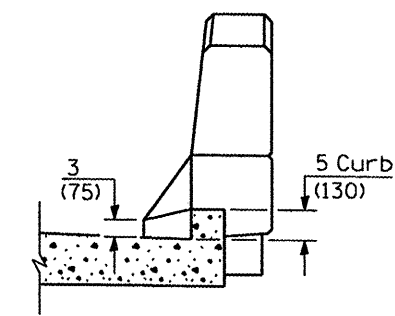
**PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT**



**PARAPET TO CURB TRANSITION
VAULTED ABUTMENT**



SECTION I - I



SECTION H - H

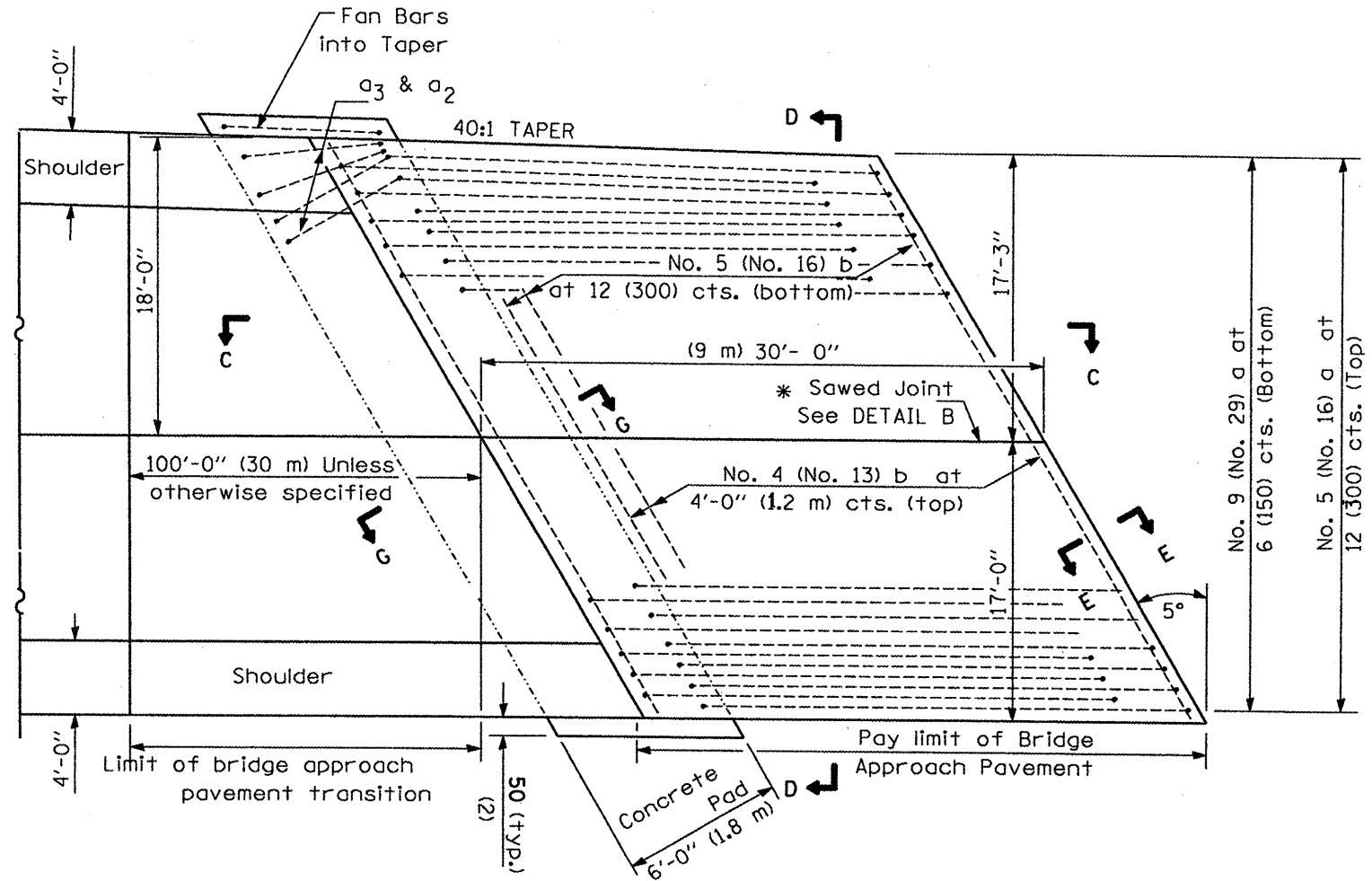
FILE NAME =	USER NAME = jstein	DESIGNED - JWS	REVISED -
F:\050301\cadd\cadd SHEETS\0488773-ah-29-032-details-approach1eb.dgn		DRAWN - JWS	REVISED -
		CHECKED - SJK	REVISED -
		DATE - 1/21/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE APPROACH PAVEMENT DETAILS

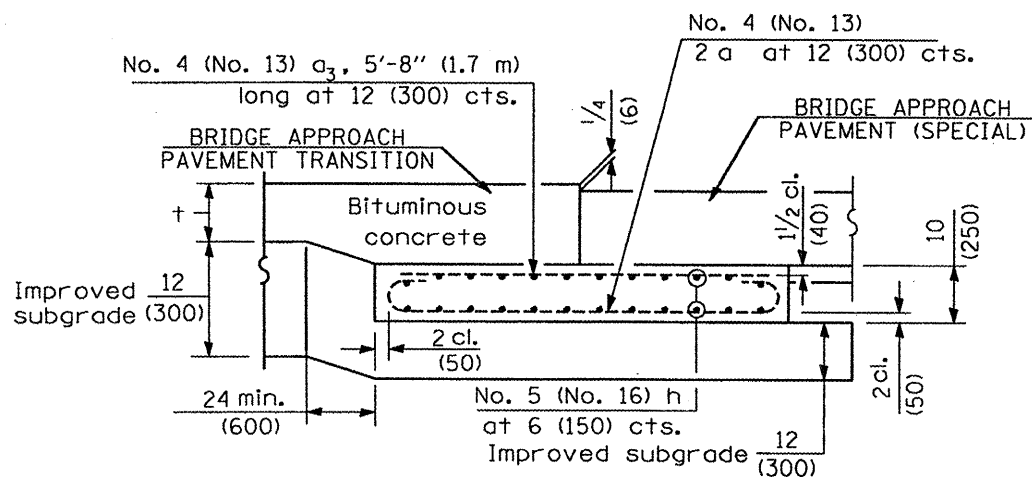
SCALE: 1" = 50' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	136.137W&RS-3:136R:109BR-2	HENDERSON	49	49
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			CONTRACT NO. 80113	

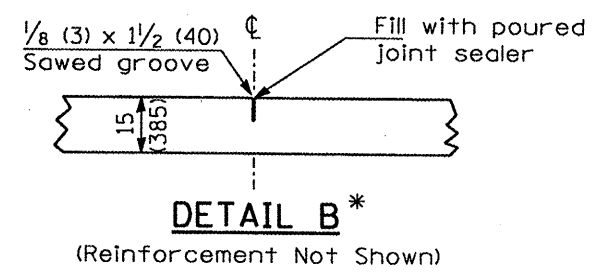


PLAN

* Saw ϕ or lane edge if poured two or more lane widths at a time.



SECTION G-G - FLEXIBLE PAVEMENT
(Showing reinforcement)



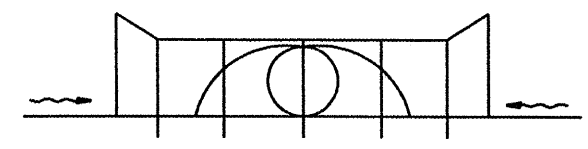
DETAIL B*

GENERAL NOTES

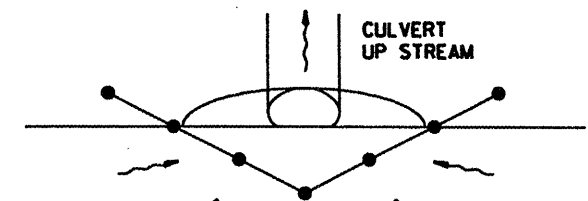
THICKNESS--"t"--Thickness of Pavement.
 See Standard 421001 for reinforcement details not shown.
 See Standard 420001 for joint details not shown.
 All dimensions are in inches (millimeters) unless otherwise shown.
 See Bridge Approach Pavement Details, Sheet 3 of 4 for Section C-C, D-D, E-E, Longitudinal Joint, Design Stresses and Bar Details.
 See Sheet 4 of 4 for Parapet to Curb Transition Detail and Section H-H.

FILE NAME =	USER NAME = jstein	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT (SPECIAL) DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Pr\050301\dgn\CA00 SHEETS\0488773-shr-33-detail\approach\lab.special.dgn		DRAWN - JWS	REVISED -			534	R136.137\WARS-3\136R109BR-2	HENDERSON	490	419	
PLOT SCALE = 1/8" = 1'-0"		CHECKED - SJK	REVISED -			SCALE: 1" = 50'					
PLOT DATE = 1/21/2009		DATE - 1/21/2009	REVISED -			SHEET NO. 1 OF 1 SHEETS		STA. 296+00.00 TO STA. 309+80.00		CONTRACT NO. 88773	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	136137WARS-31 136105BR-2	HENDERSON	490	420
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

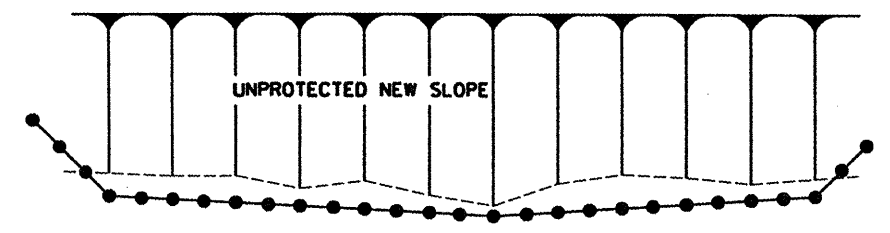


FRONT VIEW

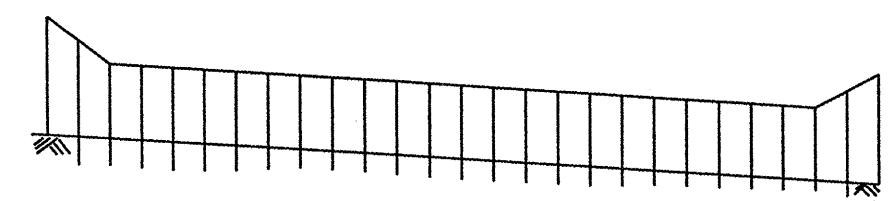


TOP VIEW

UPSTREAM PIPE CULVERT EROSION CONTROL



TOP VIEW



FRONT VIEW

GENERAL NOTES:

1. This work shall be performed in accordance with Sections 280 & 1081. of the Standard Specifications.
2. Additional Timber or Metal Post shall be installed, as needed.

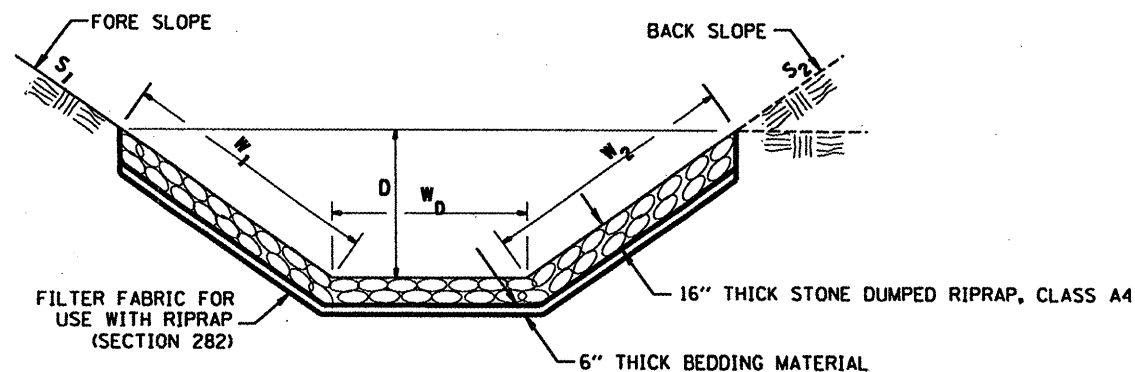
All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. A-12.05, NEW REVISION BOX	T.P.
3-11-03	ELIMINATED SILT FENCE DITCH CHECK	M.M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SPECIAL DETAIL SHEET
TYPICAL APPLICATION
OF
SILT FILTER FENCE
 CADD DETAIL 280001-D4
 SCALE: NOT DRAWN TO SCALE
 DRAWN BY CADD
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	036.13710885-34 136210885-2	HENDERSON	490	45
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

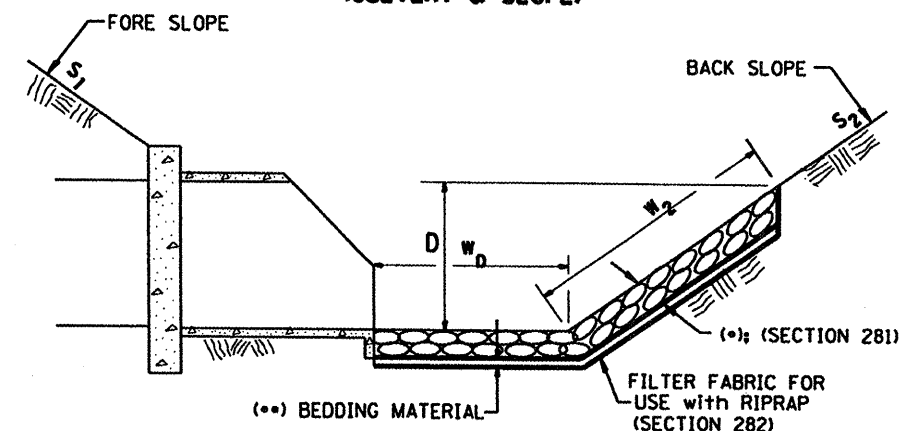
**CASE 1
(DITCH)**



STONE RIPRAP, CLASS B4				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	sq yds (m ²)	sq yds (m ²)
303+41.81 TO 303+53.81	9.5	12	14	14
309+75.84 TO 309+87.84	9.5	12	15	15
TOTAL			29	29

(1) WIDTH = $W_1 + W_2 + W_0$

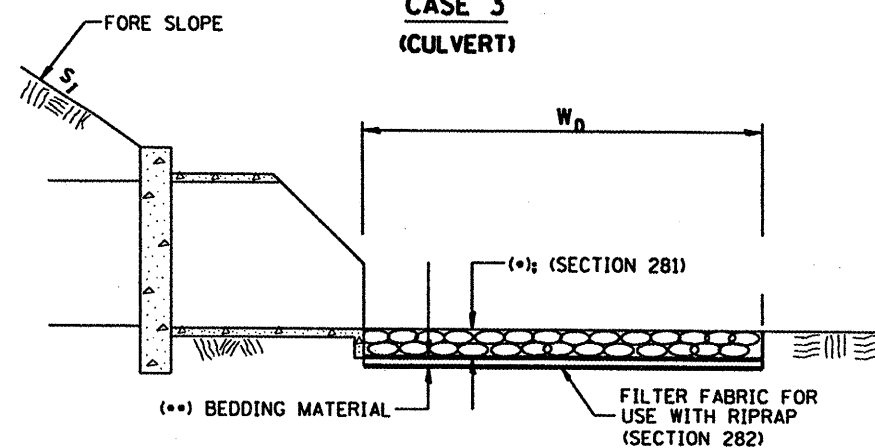
**CASE 2
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = $W_2 + W_0$

**CASE 3
(CULVERT)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = W_0

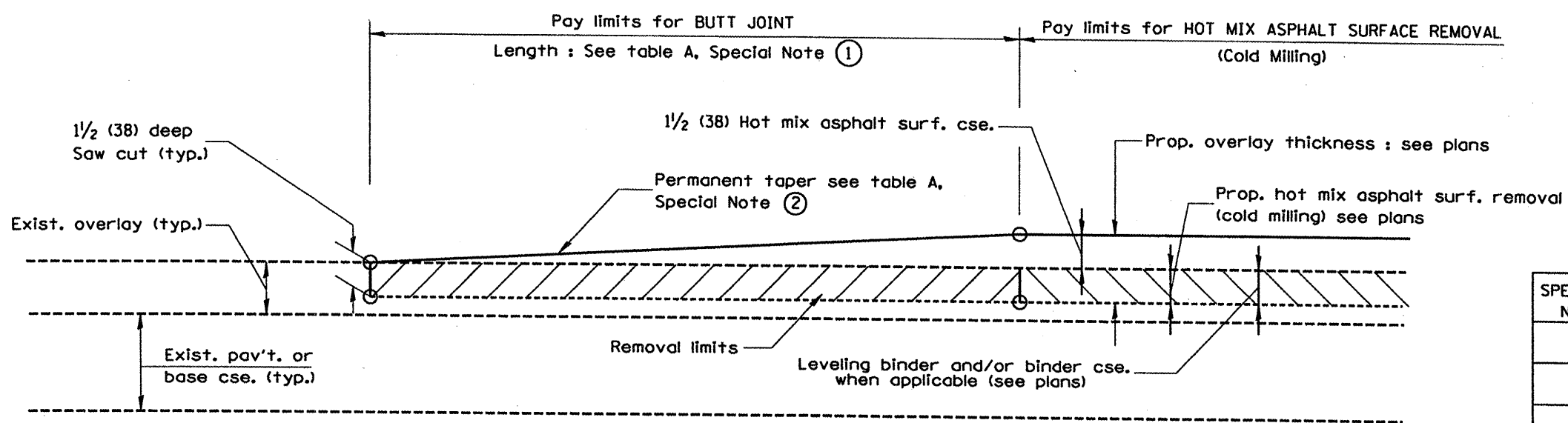
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SPECIAL DETAIL SHEET
RIPRAP DITCH FOR EROSION PROTECTION
CADD DETAIL 281001-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY CADD
CHECKED BY

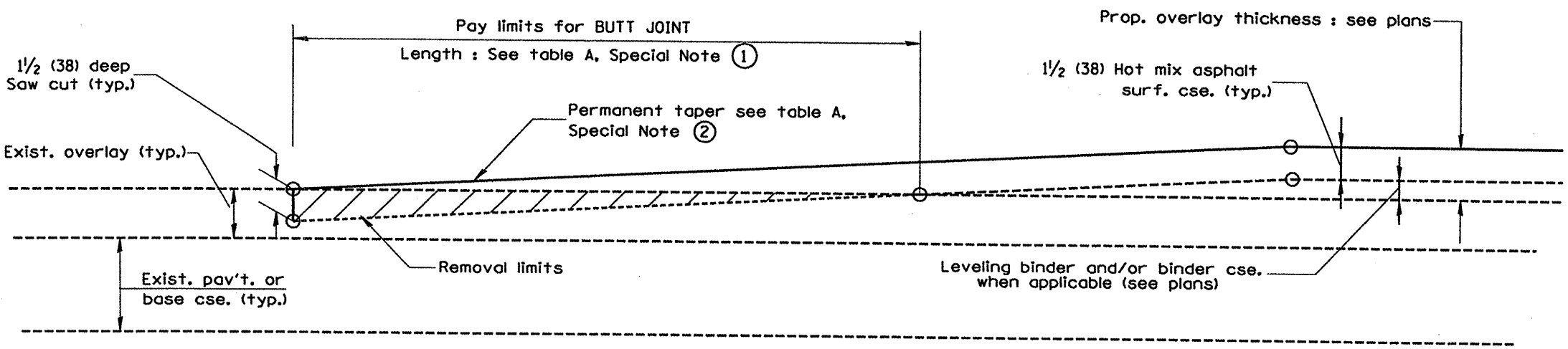
DATE	REVISIONS	BY
1-1-97	RENUM. A-12.02. NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200	HENDERSON	490	452
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DESIGNER NOTES:
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).
 2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



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



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

TABLE A
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

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.

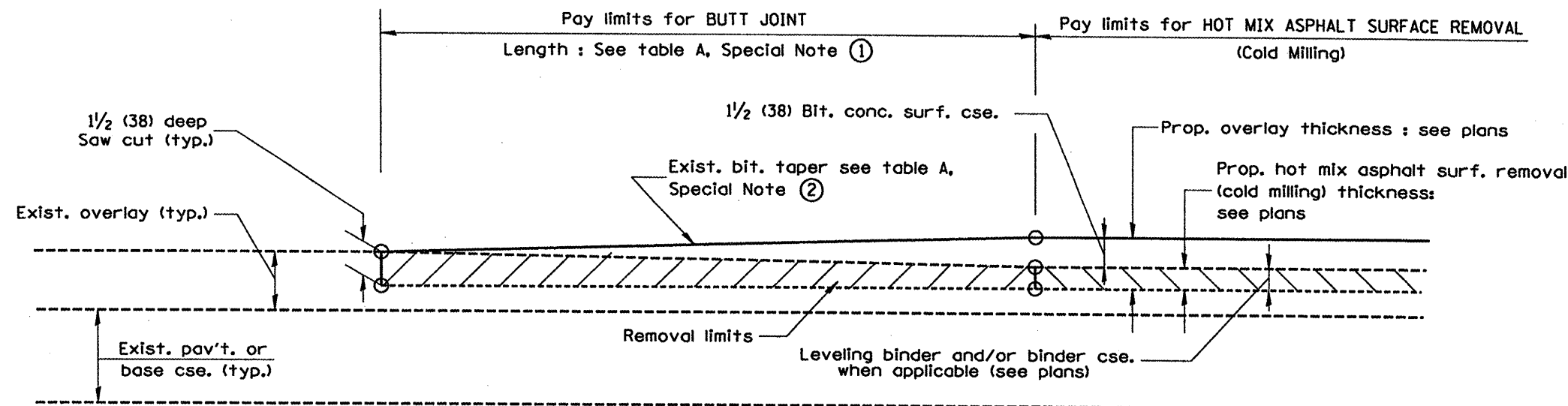
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

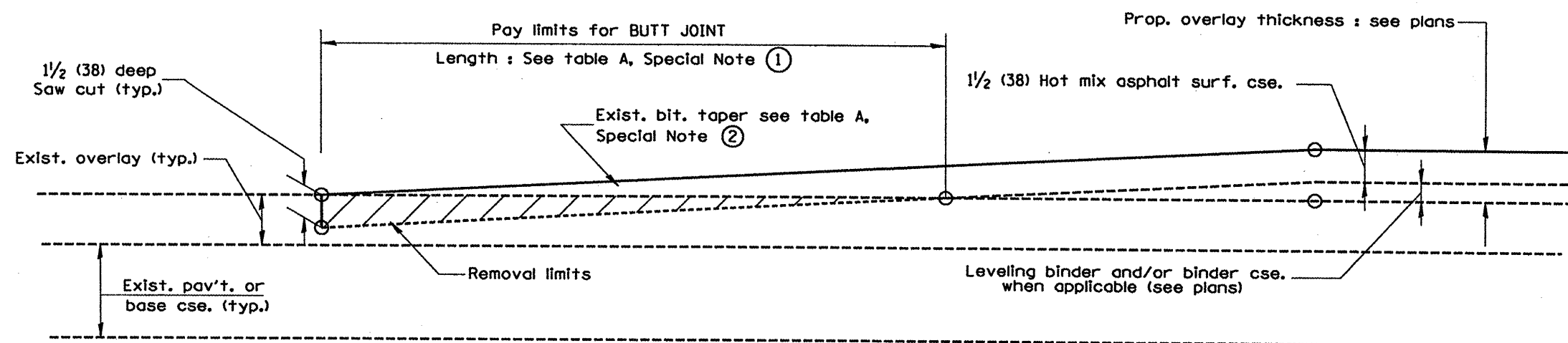
BUTT JOINTS
 CADD STD NO. 406101-D4 SHEET 1 OF 3
 SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
 DATE CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
4-1-97	CORRECTION TO DEPTH	J.A.
8-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

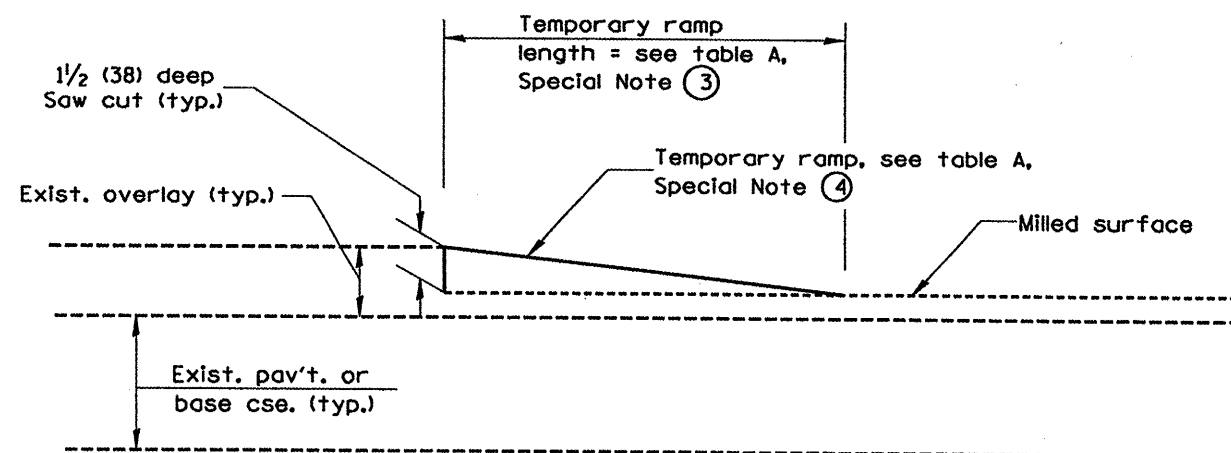
F.A.P. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	0136.1371/0485-3 136R1058R-2	HENDERSON	490	453
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



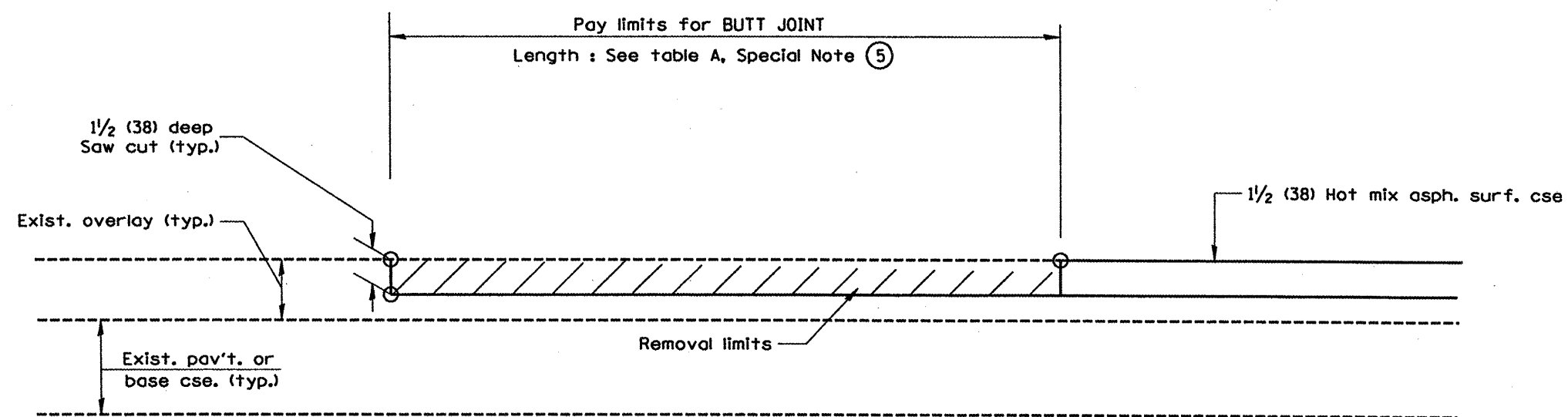
DETAIL TEMPORARY RAMP

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

BUTT JOINTS
CADD STD NO. 406101-D4 SHEET 2 OF 3
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	016.1379ARS-3 136R10BR-2	HENDERSON	490	454
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**

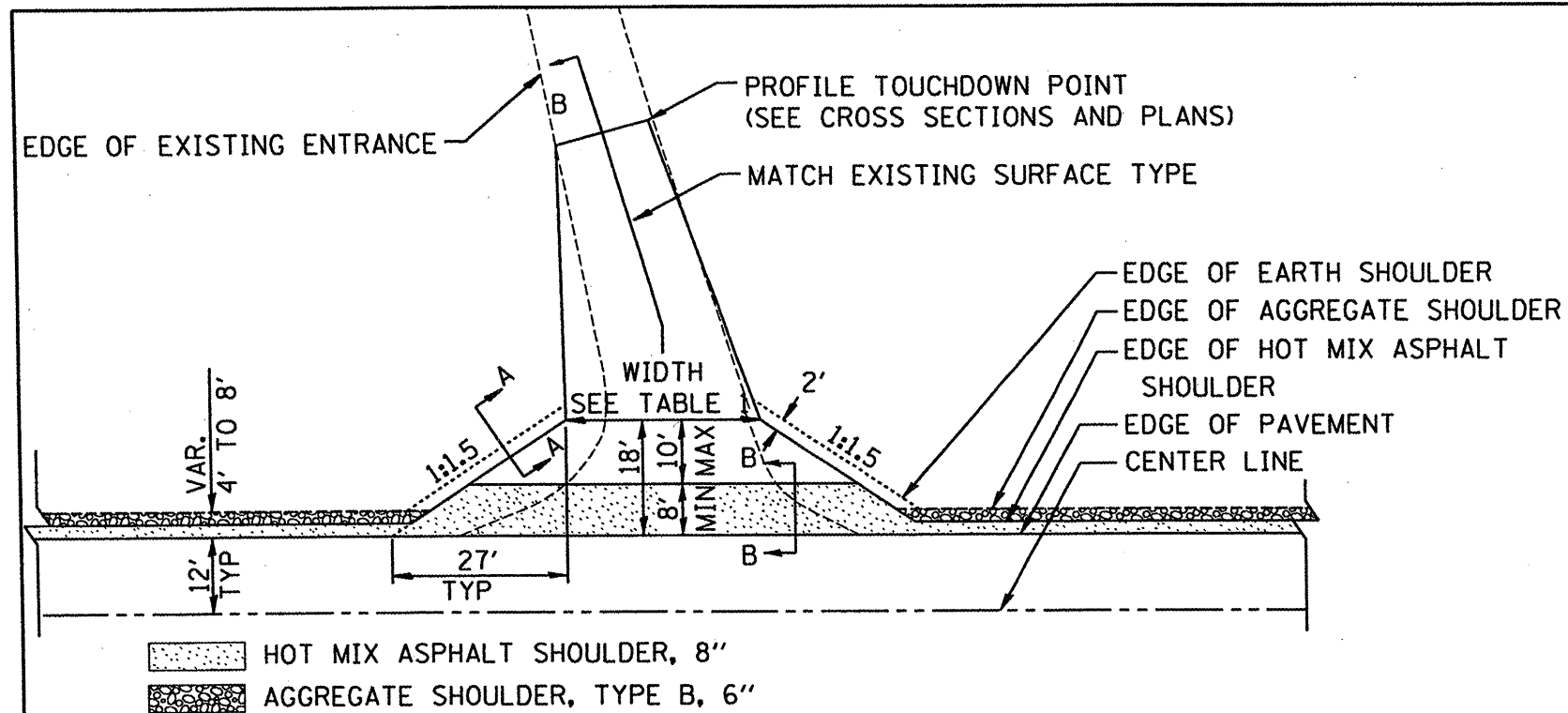
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

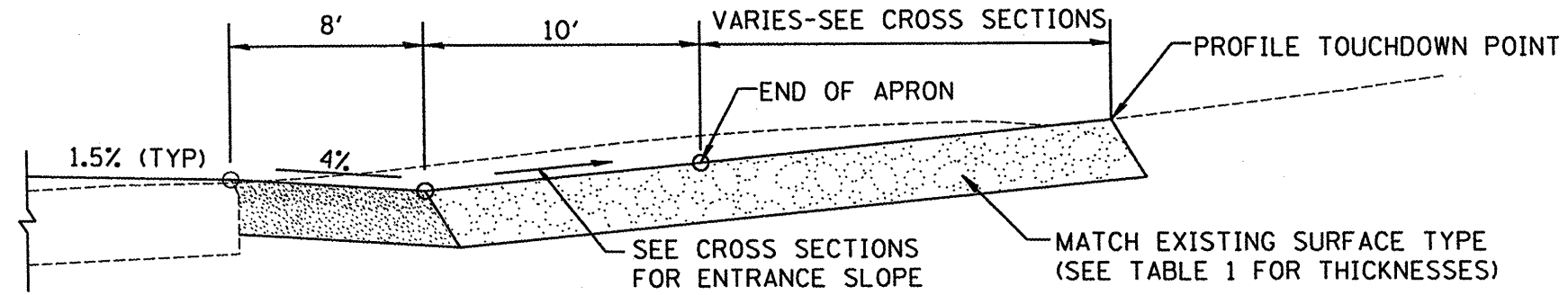
BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 3 OF 3
DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE
CHECKED BY

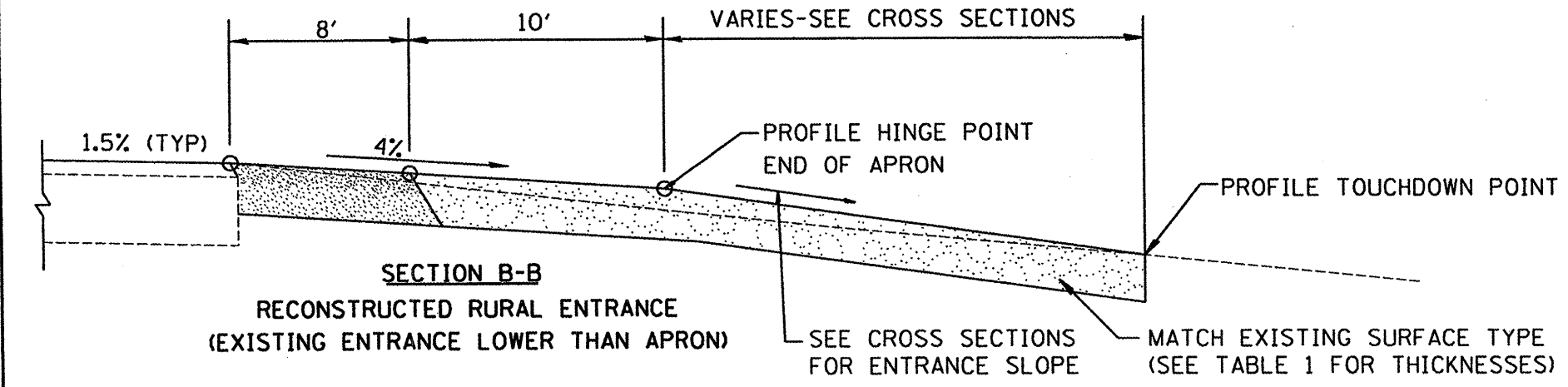
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	136.137WARS-3 136R103BR-2	HENDERSON	490	455
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



PLAN
COMMERCIAL / FARM-RELATED ENTRANCE

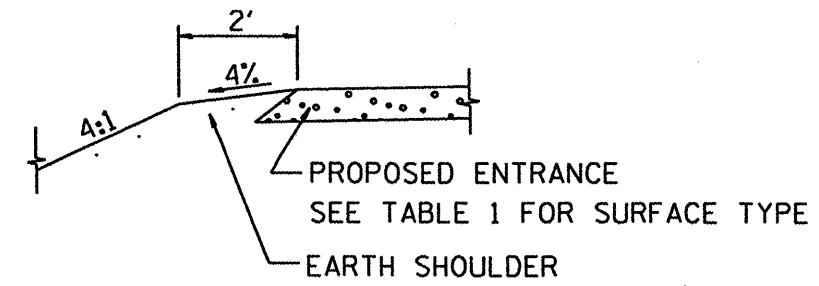


SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



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

TABLE 1				
RURAL ENTRANCE DESIGN				
ELEMENT	NON-COMMERCIAL	NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL	
			1-WAY OPERATION	2-WAY OPERATION
WIDTH (W)	12'(3.6m) Min., 24'(7.2m) Max.	20' (6.1m)Max., 30' (9.0m)Max.	14'(4.3m) Min., 24'(7.2m) Max.	24'(7.2m) Min., 35'(10.7m) Max.
FLARE	1:1.5			
MAX. GRADE (G)	12%	12%	10%	
SURFACE TYPE				
INCIDENTAL HOT MIX ASPHALT SURFACING	6"	—	8"	
AGGREGATE SURFACE COURSE	6"	8"	8"	
PCC DRIVEWAY PAVEMENT	6"	—	7"	



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.

DATE	REVISIONS	BY
1-1-97	RENUM. C-103.06, NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
1-17-03	ADJUST DESIGN, CHANGE ENTRANCE	J.A.T.R.
9-15-05	RADIUS FOR FLARE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

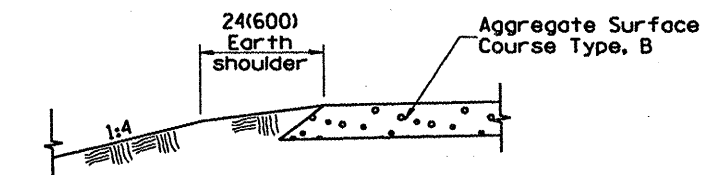
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

RURAL ENTRANCES FOR "3R" PROJECTS

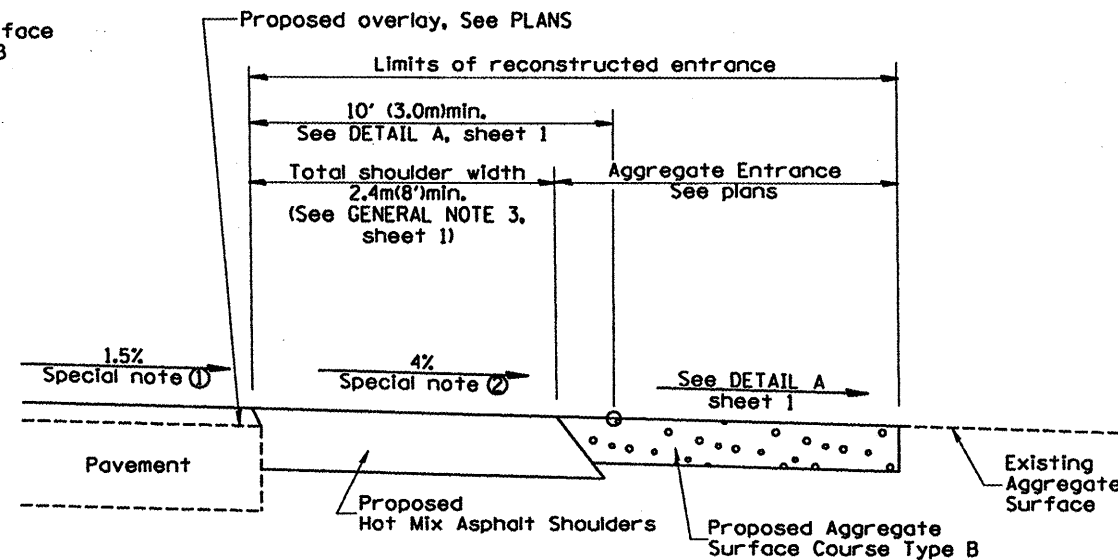
SHEET 1 OF 2

CADD STD NO. 406301-D4
SCALE: NOT DRAWN TO SCALE
DATE: _____ DRAWN BY: CADD
CHECKED BY: T. PICKERING

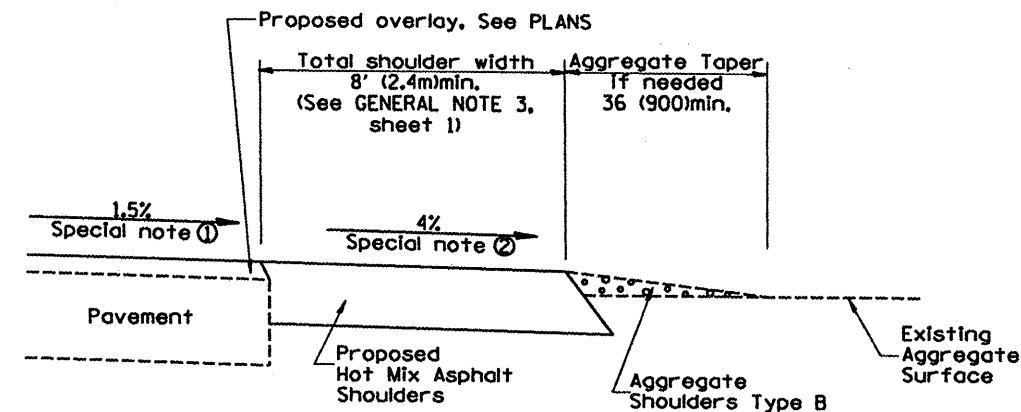
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET	SHEET NO.
534	136R1098R-2	HENDERSON	490	450
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



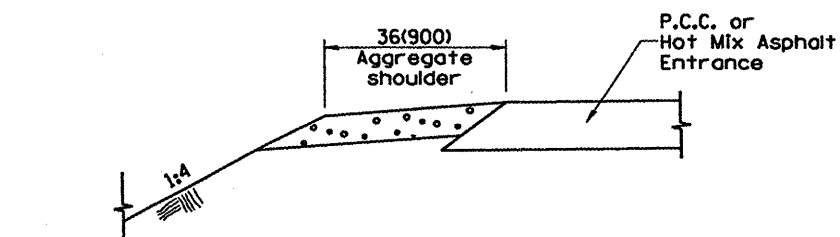
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



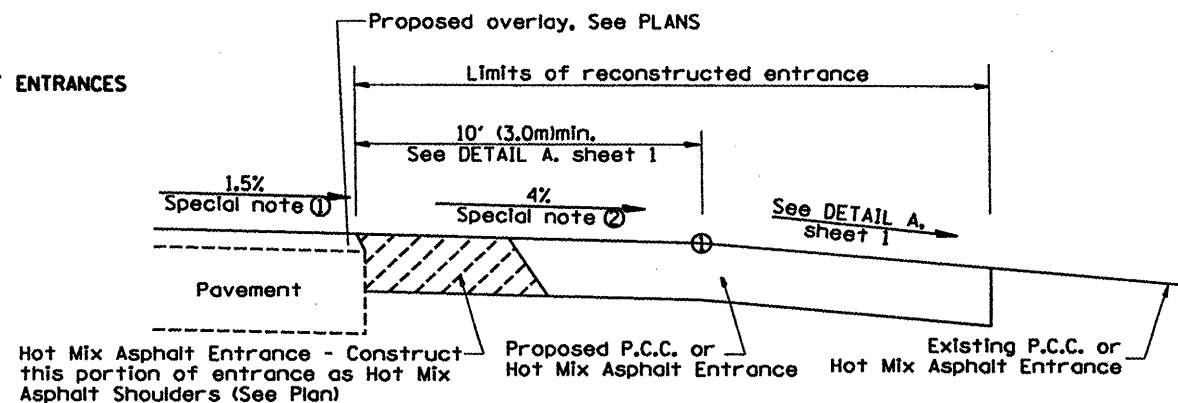
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



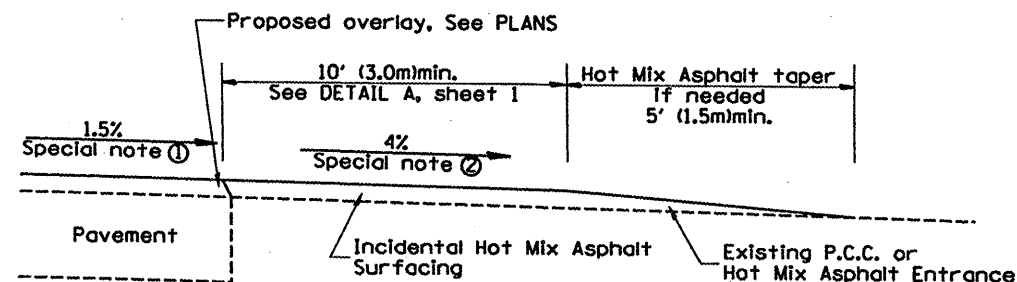
SECTION B-B
EXISTING AGGREGATE ENTRANCE



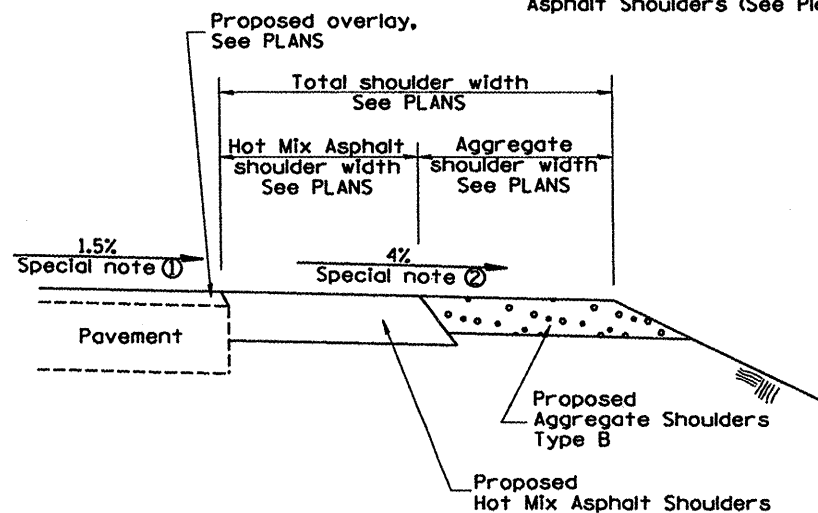
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



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

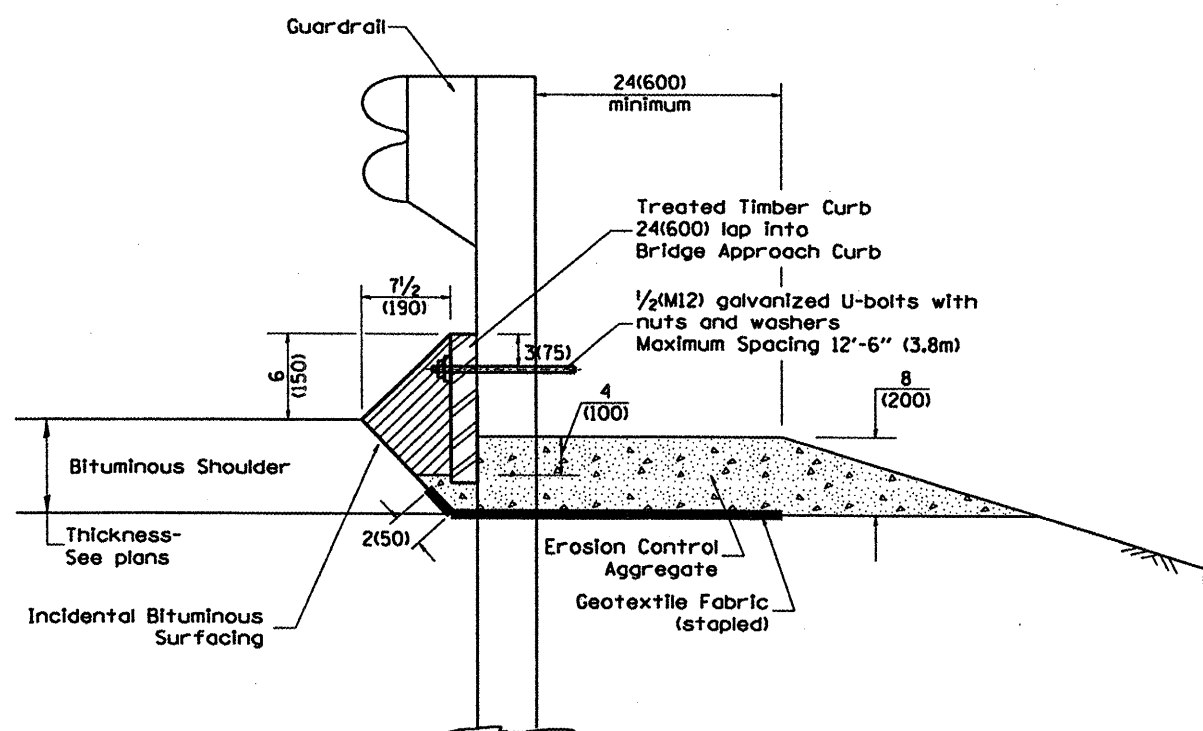
SPECIAL NOTES

- 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.

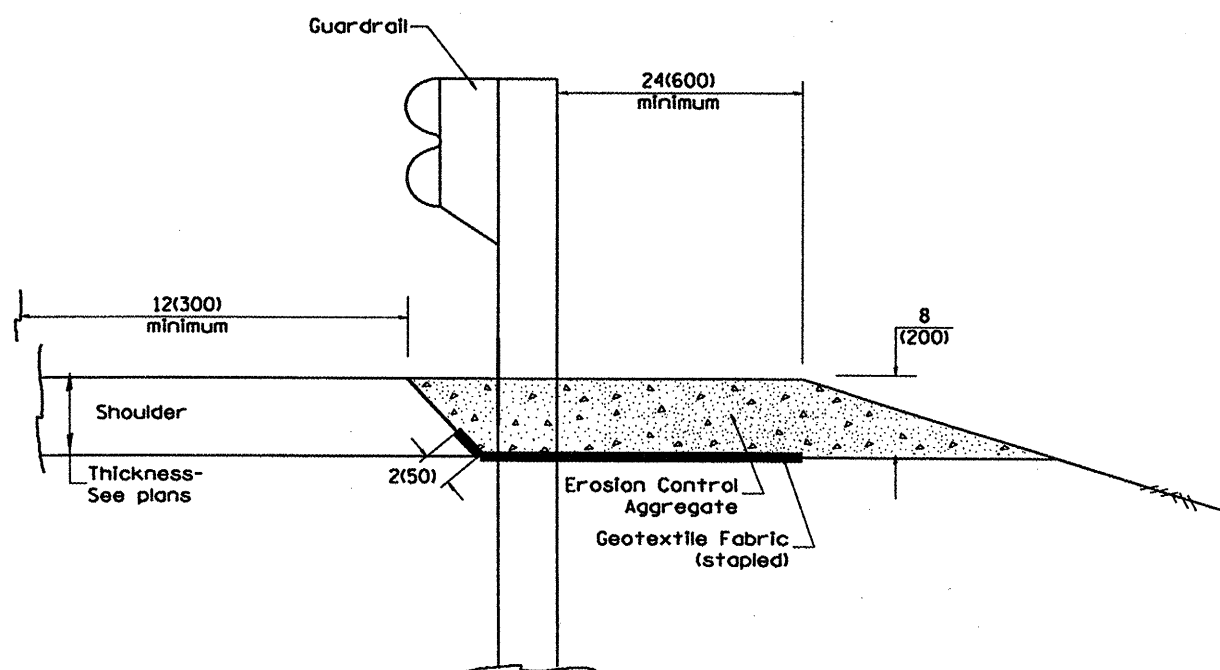
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H). All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
RURAL ENTRANCES FOR "3R" PROJECTS	
SHEET 2 OF 2	
CADD STD NO. 406301-D4	DRAWN BY CADD
SCALE: NOT DRAWN TO SCALE	CHECKED BY: T. PICKERING

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	036.137HWRS-3 136R102BR-2	HENDERSON	490	457
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m³)

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.

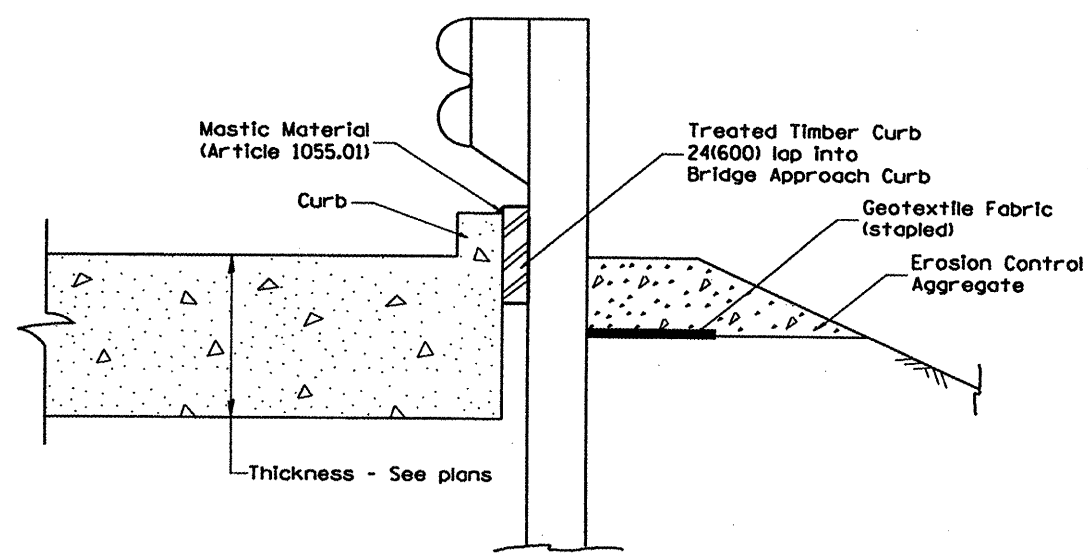
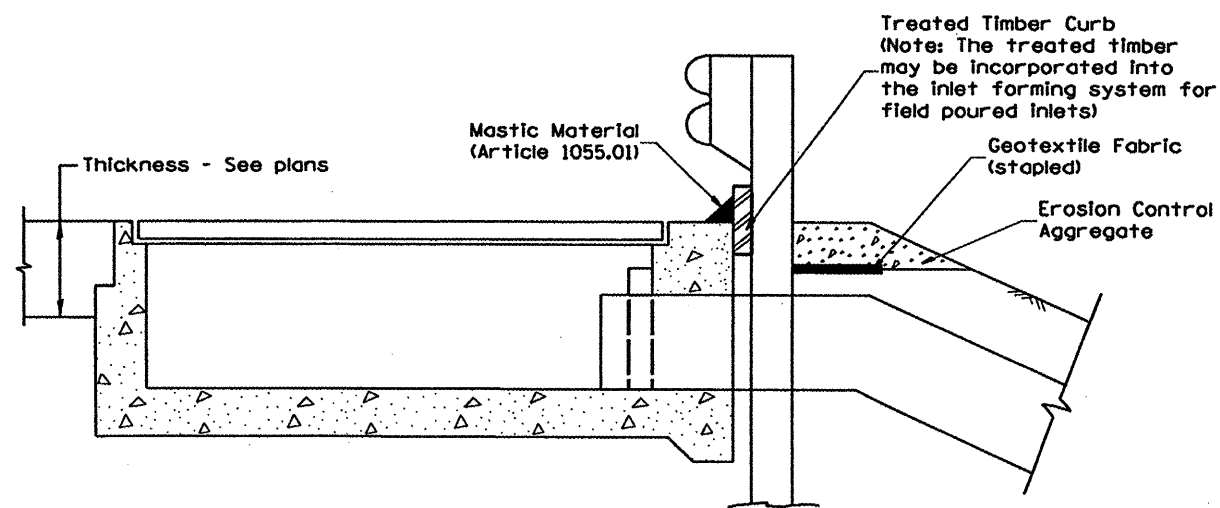
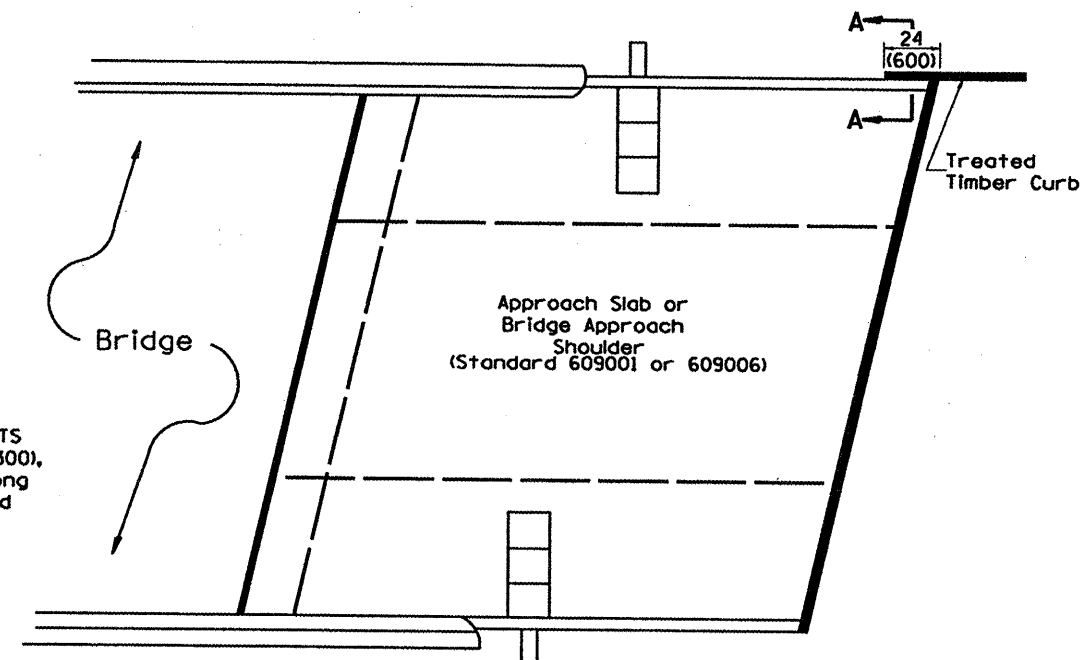
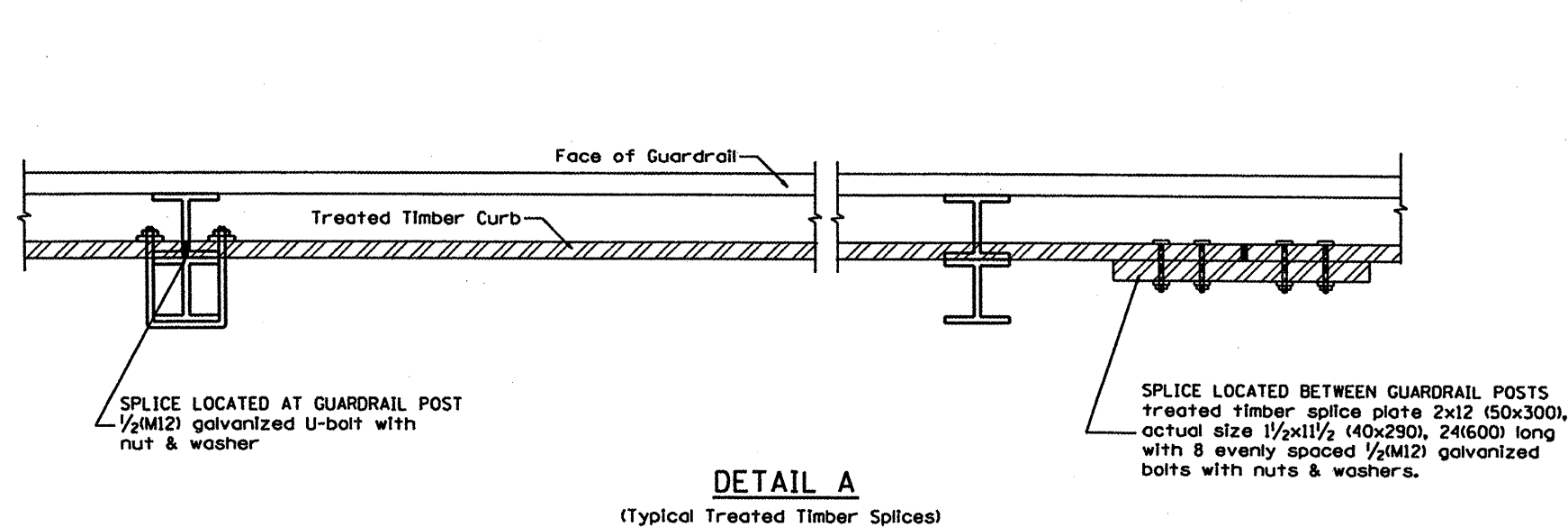
All dimensions are in inches (millimeters) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL EROSION CONTROL TREATMENTS	
CADD STD NO. 630101-04(1)	SHEET 1 OF 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

DATE	REVISIONS	BY
1-1-97	RENUM. C-22.01, NEW REVISION BOX	T.P.
3-1-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.
11-3-00	CORRECTION TO NOTES	M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

DESIGNER NOTE: 1. Use EROSION CONTROL CURBS at guardrail installations where grades are equal to or greater than 1% and at inlets, unless otherwise specified. 2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (Include District Special Provision). 3. Include State Standards 609001, 609006 or 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; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow. 5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.

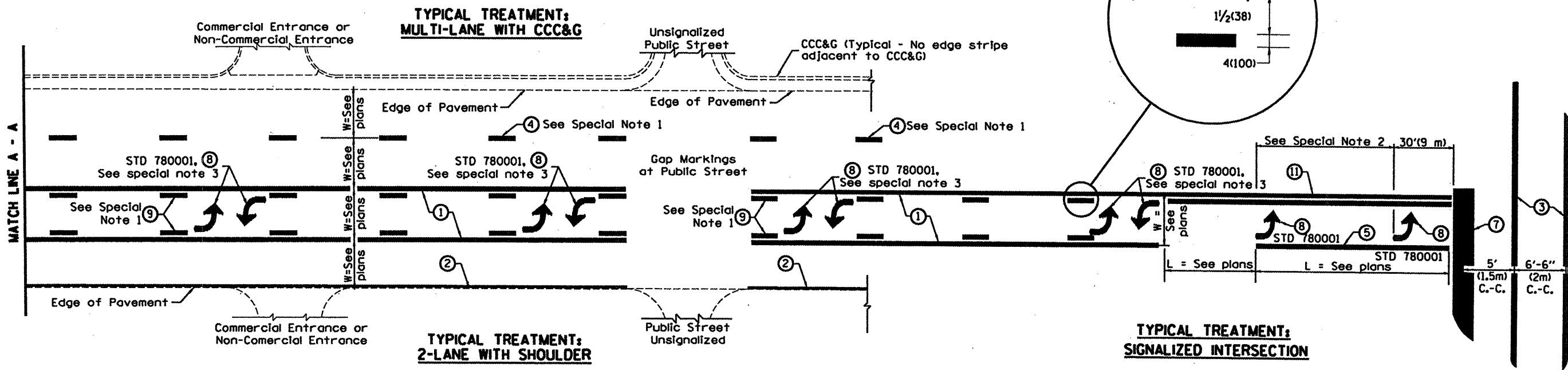
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	(136,137)HARRIS-34 (364)LOSER-2	HENDERSON	490	458
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

ILLINOIS DEPARTMENT OF TRANSPORTATION	
DISTRICT CADD STANDARD	
GUARDRAIL EROSION CONTROL TREATMENTS	
CADD STD NO. 630101-D4(2)	SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
	CHECKED BY

F.A.P. RYE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	136.137HWARS-3 136.137HWARS-2	HENDERSON	490	459
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

TYPICAL PAVEMENT MARKING LEGEND

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

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m) in C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m) in 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) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

SPECIAL NOTES

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

GENERAL NOTES

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

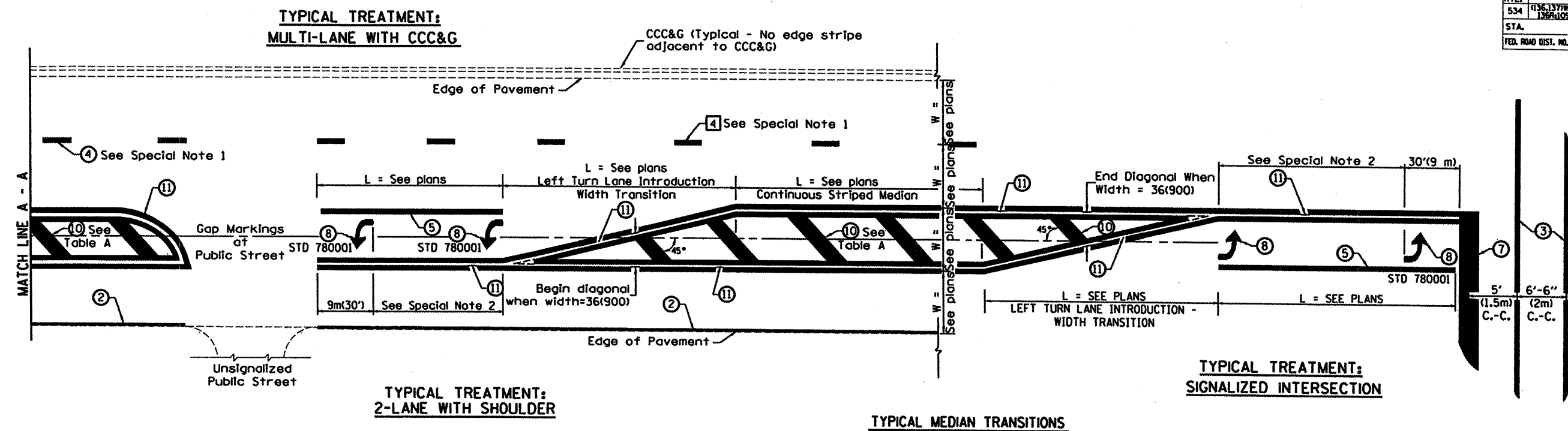
TYPICAL PAVEMENT MARKINGS

DATE	REVISIONS	BY
1-1-97	RENUM. F-8.03, NEW REVISION BOX	T.P.
2-7-97	ADD BI DIRECTIONAL DIMENSION	J.A.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.
8-02	ADD CROSSWALK DIMS. WITH T.S.	M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

CADD STANDARD 780001-D4 SHEET 1 OF 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY

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

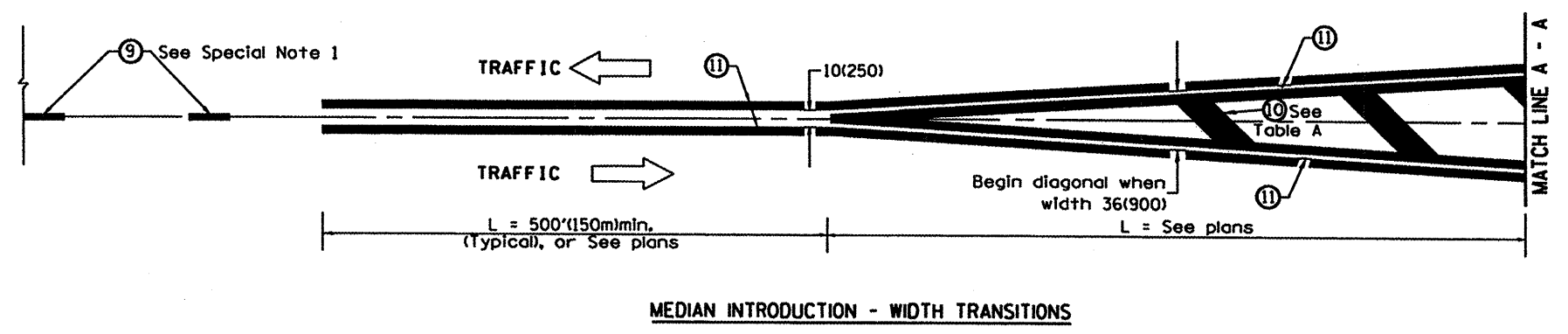
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
534	(136,137)WARS-3 (136)LOSER-2	HENDERSON	490	460
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

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



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

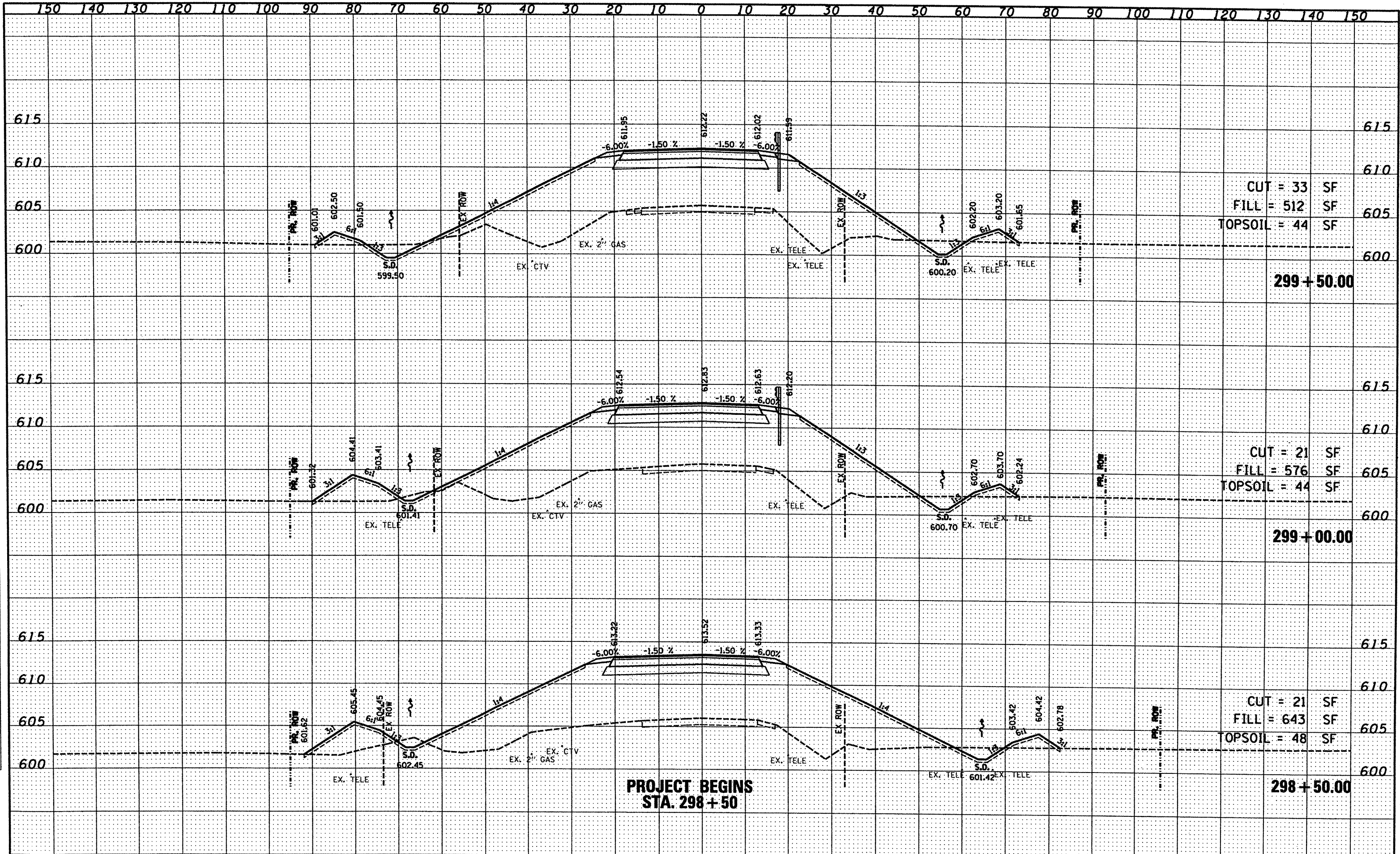
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

TYPICAL PAVEMENT MARKINGS

CADD STANDARD 780001-D4 SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY

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TEMPLATE	
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AREAS CHECKED	
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ORIGINAL SURVEY	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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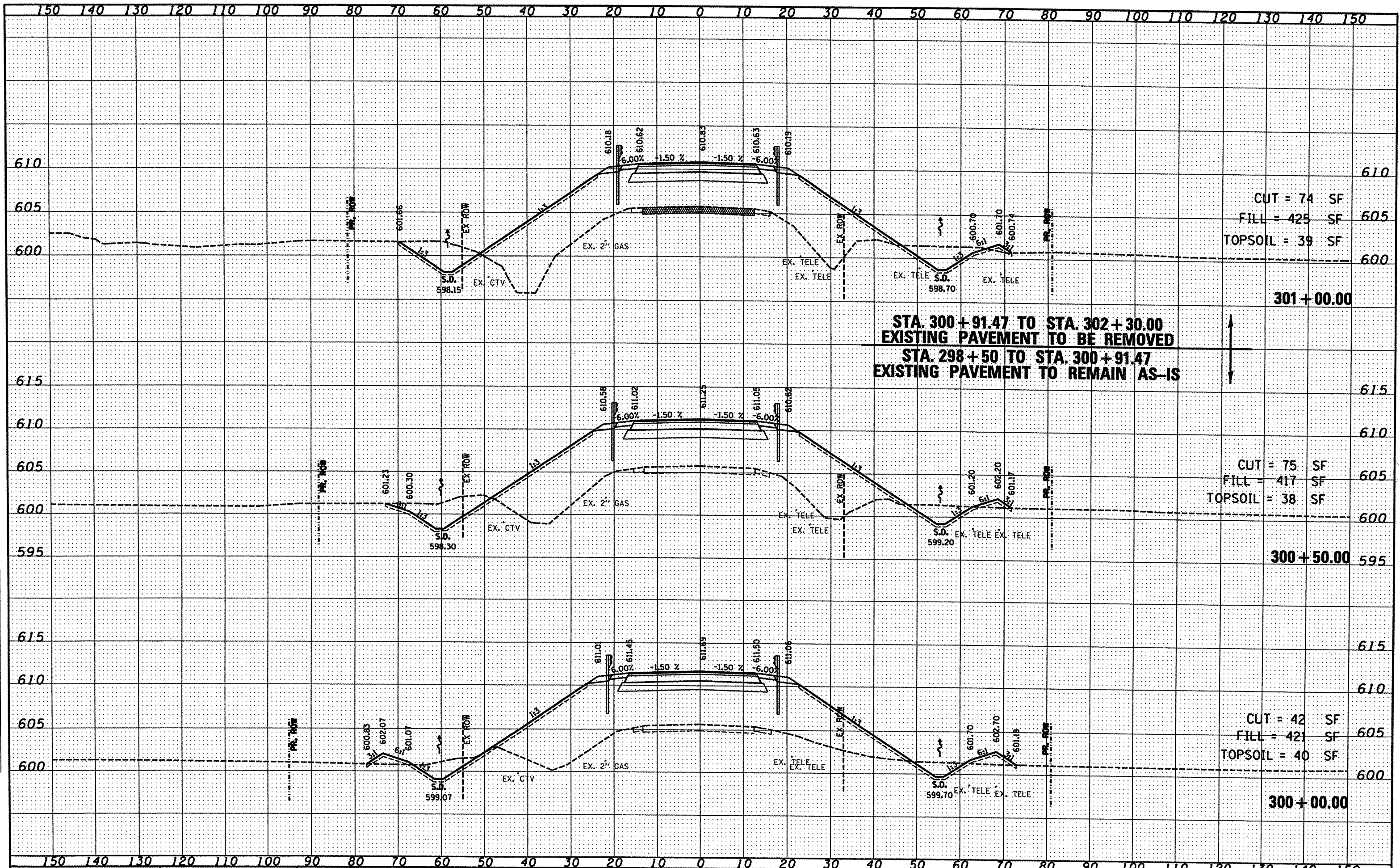
CUT = 33 SF
 FILL = 512 SF
 TOPSOIL = 44 SF
 299 + 50.00

CUT = 21 SF
 FILL = 576 SF
 TOPSOIL = 44 SF
 299 + 00.00

CUT = 21 SF
 FILL = 643 SF
 TOPSOIL = 48 SF
 298 + 50.00

**PROJECT BEGINS
 STA. 298 + 50**

FILE NAME = P:\050301\dgn\CADD SHEETS\0488773-sht-045.052	USER NAME = jstear	DESIGNED - JWS	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 94 CROSS SECTIONS			F.A.P. RTE. 534	SECTION H36.137W&RS-3136R109BR-2	COUNTY HENDERSON	TOTAL SHEETS NO. 490	SHEET NO. 46
PLOT SCALE = 28.0000' / IN.	DRAWN - JWS	CHECKED - SJK	REVISED - ---		SCALE: 1" = 20'	SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 88773				
PLOT DATE = 1/21/2009	DATE - 1/21/2009	REVISOR - ---	REVISOR - ---		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							



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NOTE BOOK	
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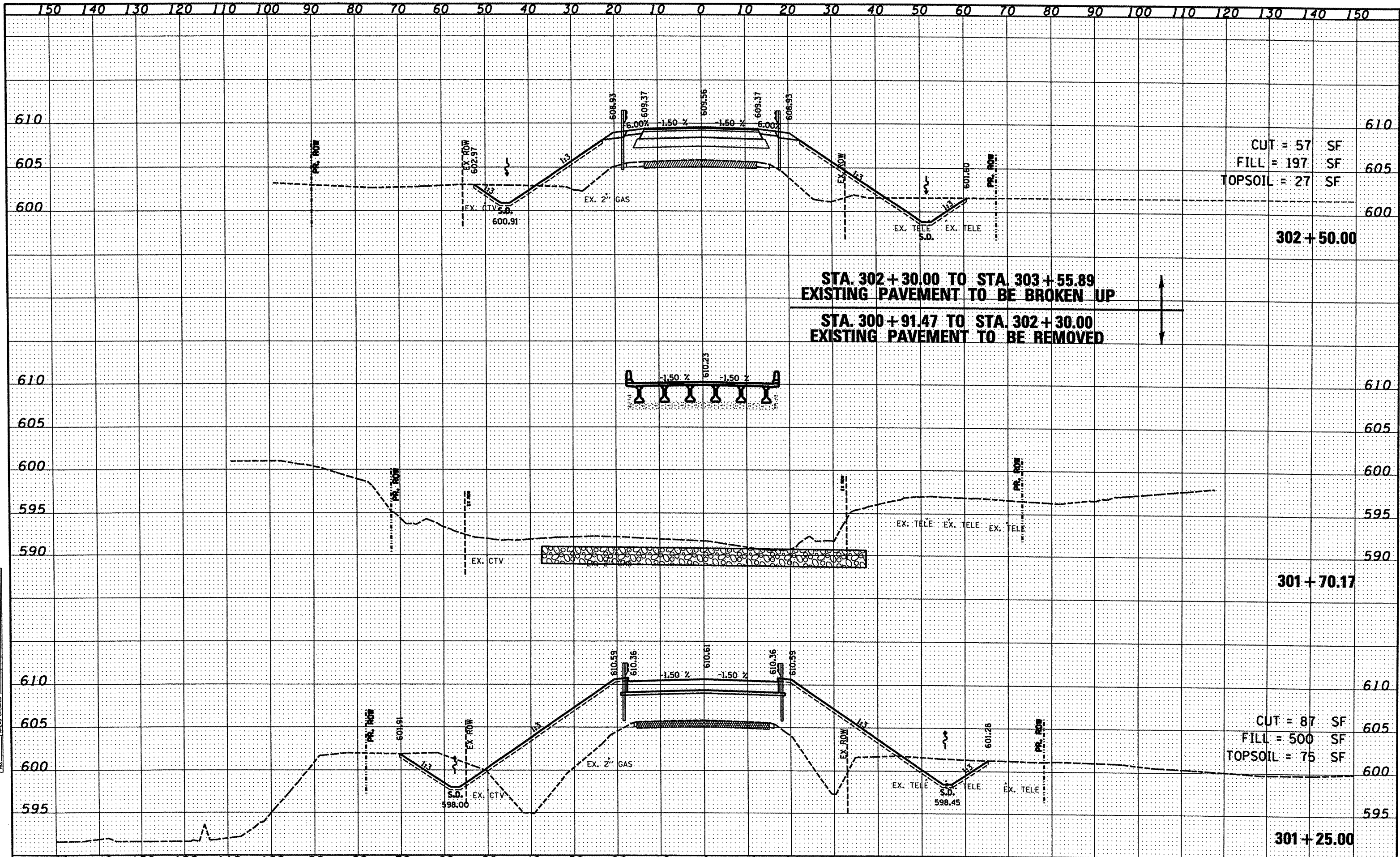
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	DATE - 1/21/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 94 CROSS SECTIONS

SCALE: 1" = 20'

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
534	136.137W&RS-3136R109BR-2	HENDERSON	490
			462
			CONTRACT NO. 88773



DATE	
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DESIGNED	
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 PLOT DATE = 1/21/2009

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DRAWN	- JWS	REVISED	-
CHECKED	- SJR	REVISED	-
DATE	- 1/21/2009	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

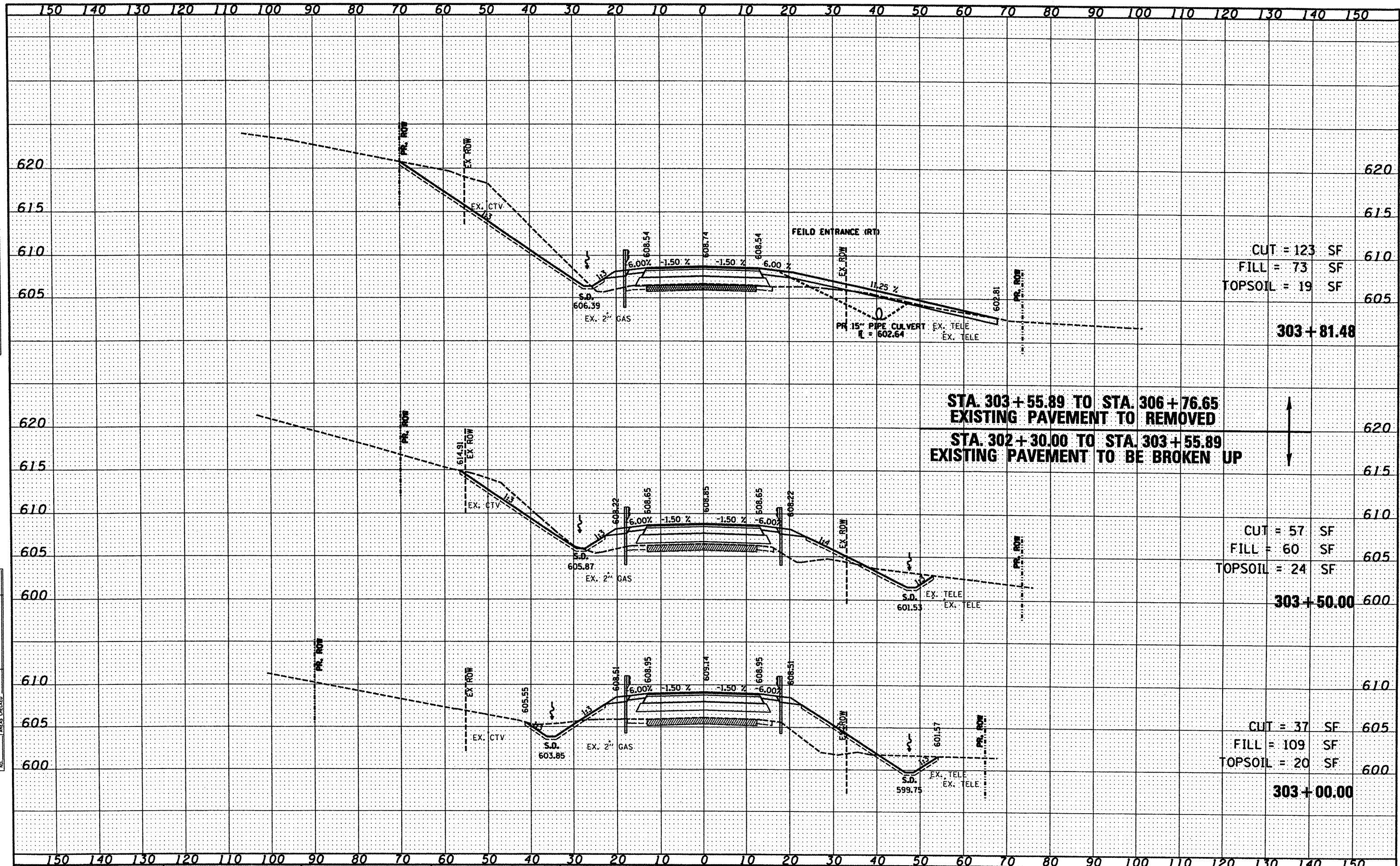
ILLINOIS ROUTE 94 CROSS SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.	SHEET NO.
534	1136.137W&RS-3136R109BR-2	HENDERSON	490	463
				CONTRACT NO. 88773

DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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NO.	



CUT = 123 SF
 FILL = 73 SF
 TOPSOIL = 19 SF

303+81.48

STA. 303+55.89 TO STA. 306+76.65
 EXISTING PAVEMENT TO BE REMOVED
 STA. 302+30.00 TO STA. 303+55.89
 EXISTING PAVEMENT TO BE BROKEN UP

CUT = 57 SF
 FILL = 60 SF
 TOPSOIL = 24 SF

303+50.00

CUT = 37 SF
 FILL = 109 SF
 TOPSOIL = 20 SF

303+00.00

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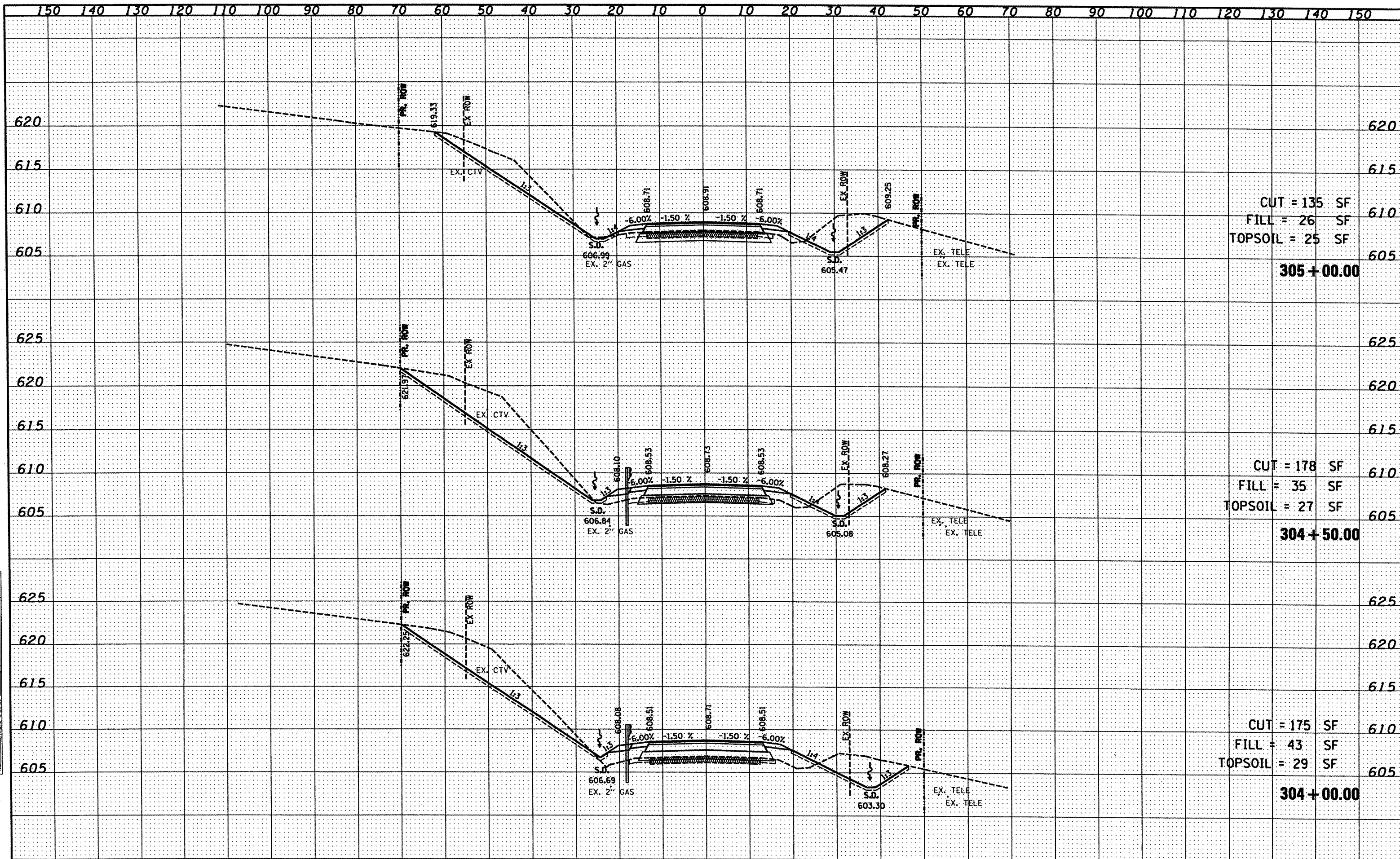
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 DRAWN - JWS
 CHECKED - SJK
 DATE - 1/21/2009

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 REVISED - ---

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 94 CROSS SECTIONS
 SCALE: 1" = 20'
 SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. SECTION COUNTY TOTAL SHEET
 RTE. 534 136.137W&RS-3:136R:1098R-2 HENDERSON 490 464
 CONTRACT NO. 88773

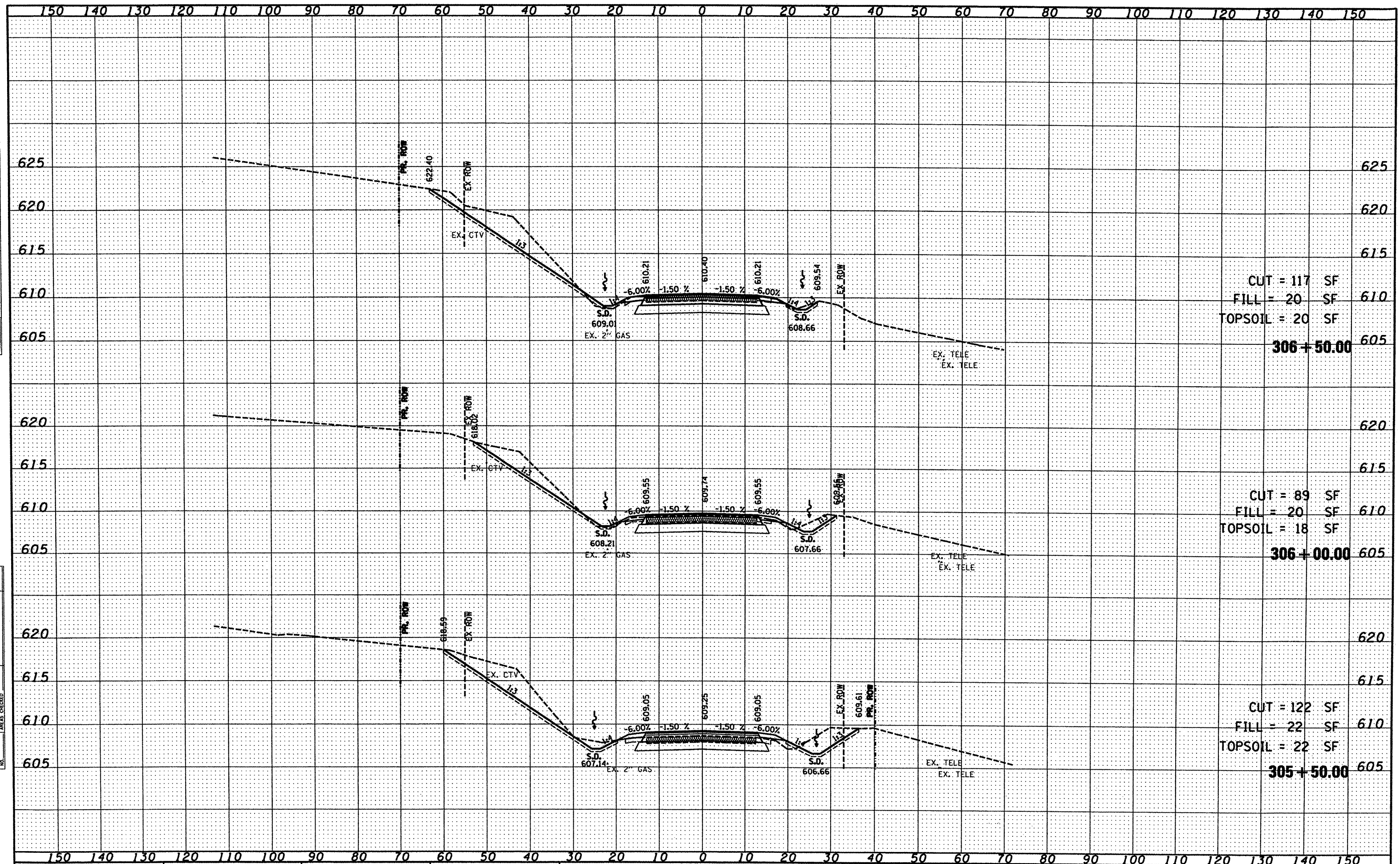


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 AREAS CHECKED _____

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



CUT = 117 SF
 FILL = 20 SF
 TOPSOIL = 20 SF
306+50.00

CUT = 89 SF
 FILL = 20 SF
 TOPSOIL = 18 SF
306+00.00

CUT = 122 SF
 FILL = 22 SF
 TOPSOIL = 22 SF
305+50.00

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 PLOT DATE = 1/21/2009

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 DRAWN - JWS
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 DATE - 1/21/2009

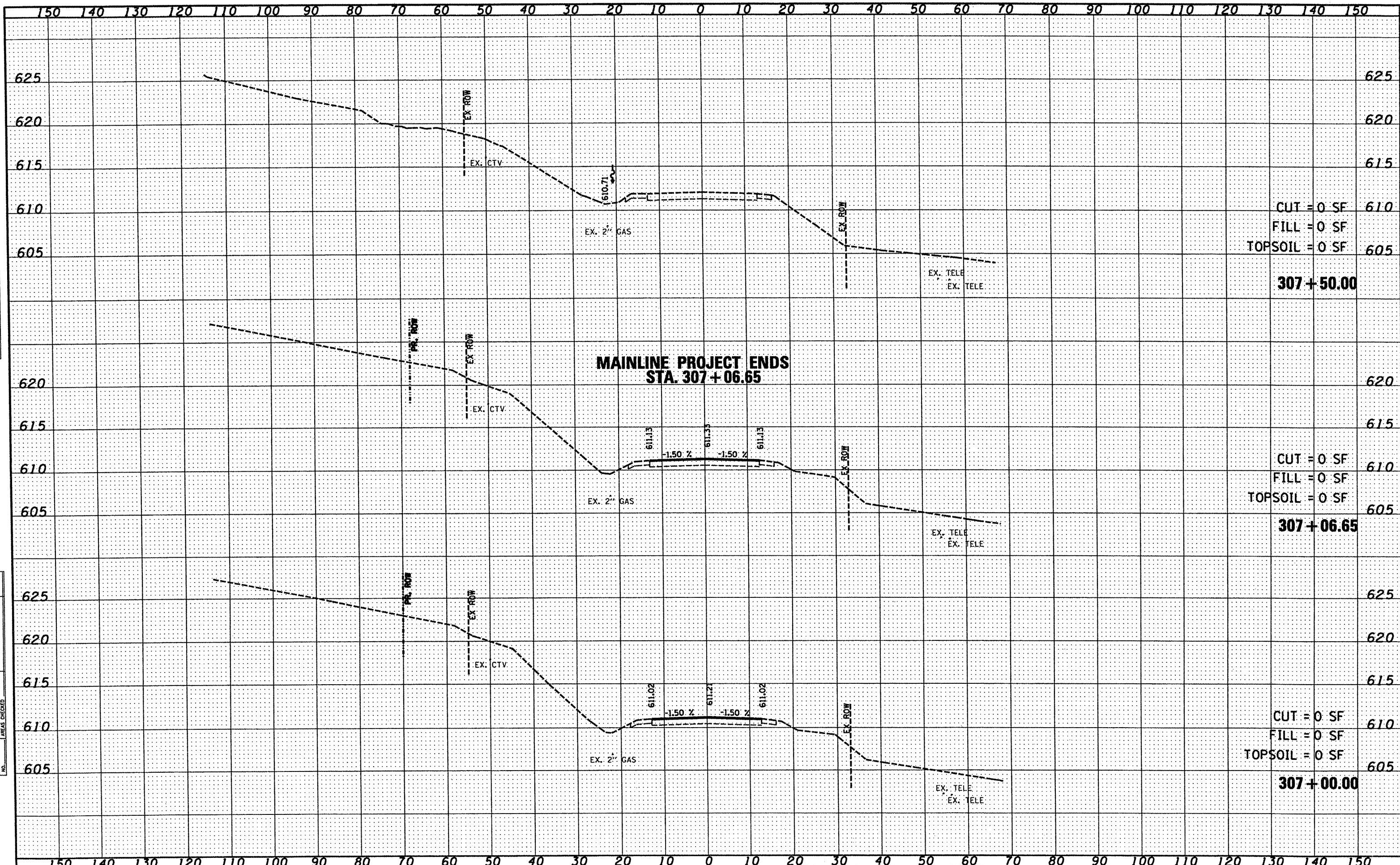
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 94 CROSS SECTIONS

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

F.A.P. RTE. 534
 SECTION 1136.1371WARS-3:136R1098R-2
 COUNTY HENDERSON
 TOTAL SHEETS 490
 SHEETS NO. 466
 CONTRACT NO. 88773



**MAINLINE PROJECT ENDS
STA. 307+06.65**

CUT = 0 SF
FILL = 0 SF
TOPSOIL = 0 SF
307+50.00

CUT = 0 SF
FILL = 0 SF
TOPSOIL = 0 SF
307+06.65

CUT = 0 SF
FILL = 0 SF
TOPSOIL = 0 SF
307+00.00

DATE: _____
BY: _____
SURVEYED: _____
PLOTTED: _____
NOTE BOOK: _____
NO. _____
AREAS CHECKED: _____

DATE: _____
BY: _____
ORIGINAL SURVEY: _____
NOTE BOOK: _____
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AREAS CHECKED: _____

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DRAWN - JWS
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DATE - 1/21/2009

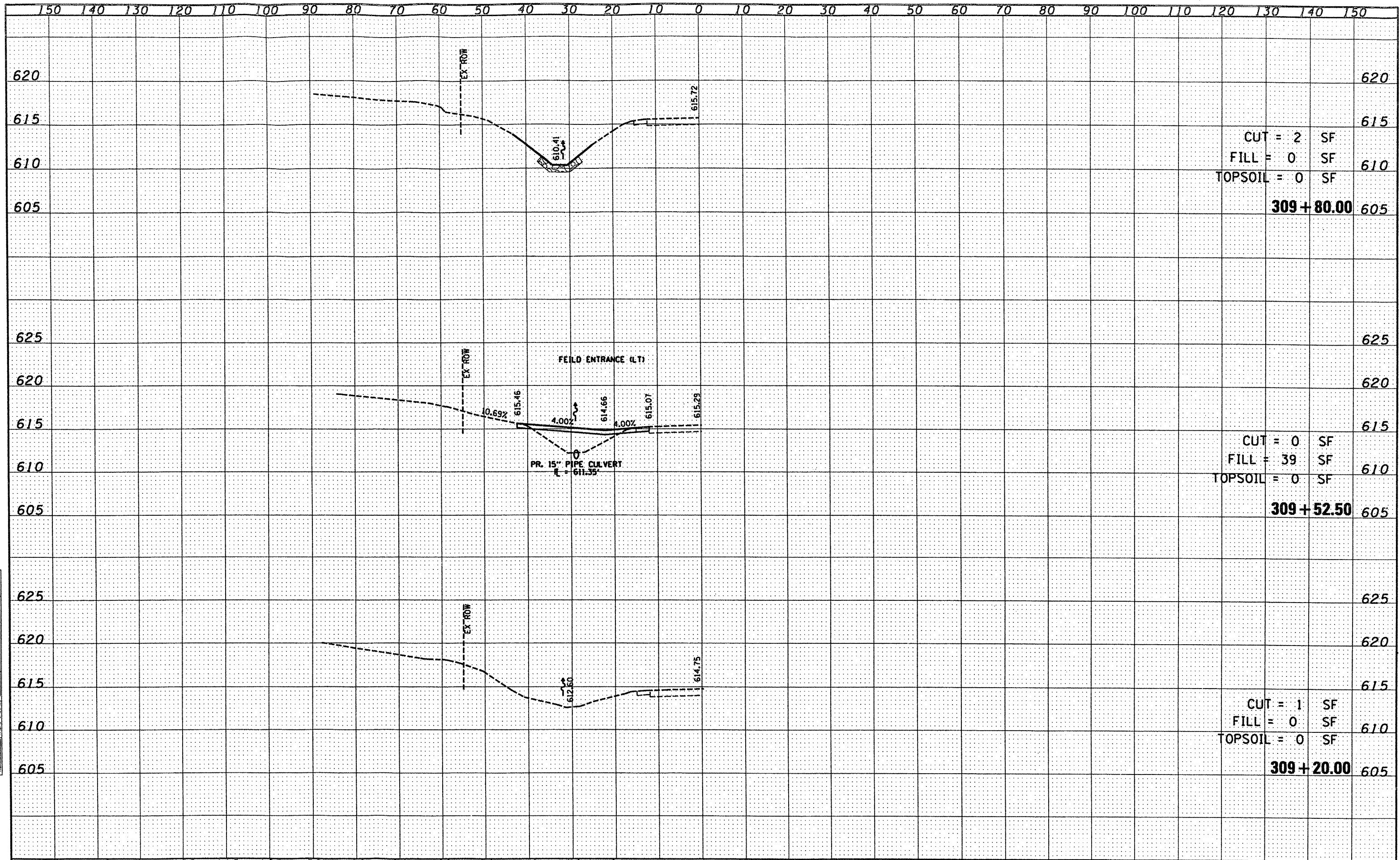
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REVISION NO. | DATE | DESCRIPTION
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2 | 1/21/2009 | REVISED
3 | 1/21/2009 | REVISED
4 | 1/21/2009 | REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 94 CROSS SECTIONS
SCALE: 1" = 20'
SHEET NO. ___ OF ___ SHEETS
STA. _____ TO STA. _____

F.A.P. RTE. 534
SECTION 1136.137W&RS-3;136R;1098R-2
COUNTY HENDERSON
TOTAL SHEETS 490
SHEET NO. 467
CONTRACT NO. 88773

FED. ROAD DIST. NO. 7 (ILLINOIS) FED. AID PROJECT



CUT = 2 SF
 FILL = 0 SF
 TOPSOIL = 0 SF
309 + 80.00

CUT = 0 SF
 FILL = 39 SF
 TOPSOIL = 0 SF
309 + 52.50

CUT = 1 SF
 FILL = 0 SF
 TOPSOIL = 0 SF
309 + 20.00

DATE	
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FINAL SURVEY	
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PLOTTED	
NOTE BOOK	
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AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY	
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NOTE BOOK	
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AREAS CHECKED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

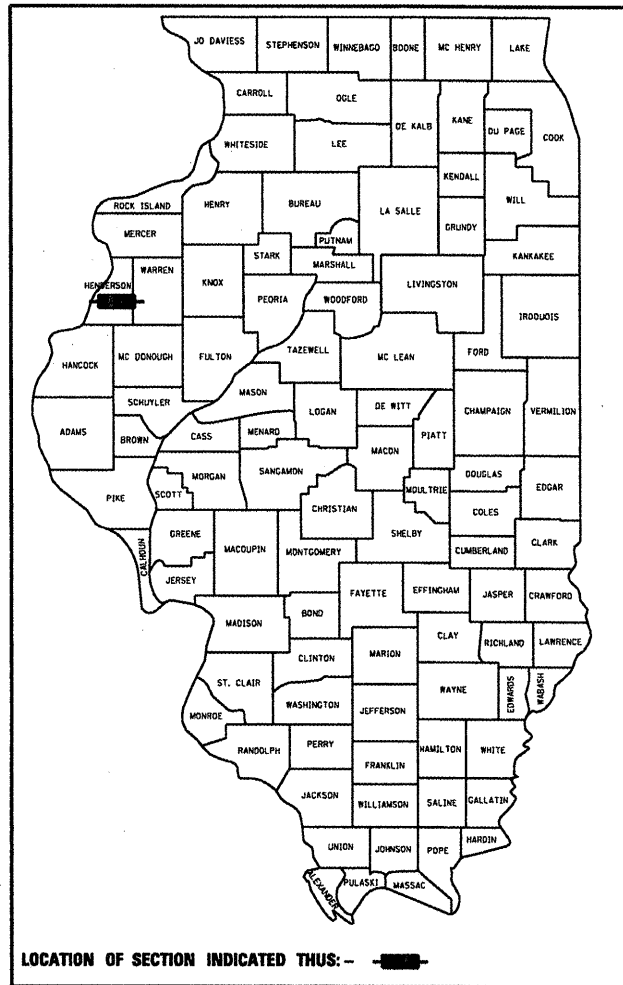
FAP ROUTES 665 & 534 (IL 116 & IL 94)
SECTION (136,137) W&RS-3;136R;109BR-2
PROJECT
TYPE OF IMPROVEMENT 3R
HENDERSON COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3;136R;109BR-2	HENDERSON	490	469
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	88773	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

VOLUME III

D-94-068-96

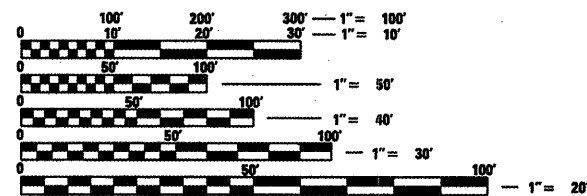


LOCATION OF SECTION INDICATED THUS: — ■ —

C-94-347-96

DESIGN DESIGNATION

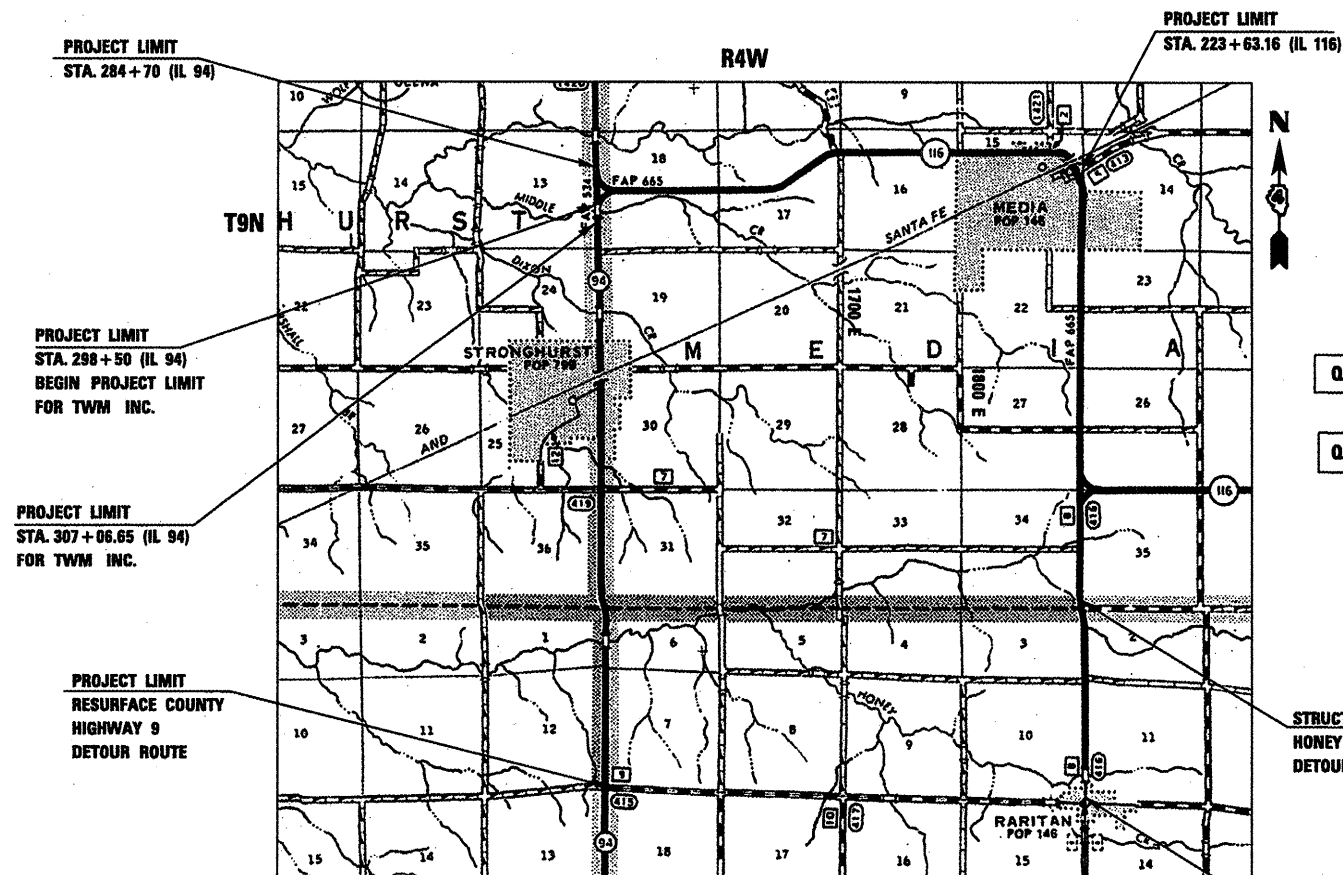
FAP ROUTE 665 (IL 116) MINOR ARTERIAL AADT (2006) = 800 (ACTUAL) 1,000 (DESIGN) MU = 8% SU = 5%	FAP ROUTE 534 (IL 94) MINOR ARTERIAL TRUCK ROUTE CLASS III AADT (2006) = 1,750 MU = 5% SU = 4%
---	---



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: RICH DOTSON (309)671-3455
PROJECT MANAGER: RON NOLTE (309)671-3470
CATALOG NO. 031267-00D
CONTRACT NO. 88773



GROSS LENGTH = 43,532 FT. = 8.2 MILES
NET LENGTH = 22,176 FT. = 4.2 MILES

NPDES PERMIT REQUIRED

QCQA BITUMINOUS

QCQA CONCRETE

STRUCTURE REPLACEMENT
HONEY CREEK TRIBUTARY
DETOUR ROUTE

PROJECT LIMIT
RESURFACE COUNTY
HIGHWAY 9
DETOUR ROUTE

RADIUS IMPROVEMENT
INTERSECTION IN
RARITAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

_____ 20 _____

ENGINEER OF DESIGN AND ENVIRONMENT

_____ 20 _____

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS, (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

PROPERTY OWNER ACCESS REQUIREMENT

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

GENERAL NOTES

1. THE THICKNESS OF BITUMINOUS 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 BITUMINOUS MIXTURE IS PLACED.
2. EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
3. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
4. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER AND SEEDED AS SOON AS POSSIBLE.
5. ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1 1/2" UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.
6. UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
7. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
9. IN ADDITION TO THE FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
10. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED.

11. THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND IS INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FORM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.
13. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEAL LEVEL DATUM. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.
14. THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKING (PHONE: 309-671-4460).

COMMITMENTS:

NONE

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

HOT MIX ASPHALT MATERIALS (PRIME COAT)	0.00038 TON/SQ. YD. (ON PAVEMENT)
HOT MIX ASPHALT MATERIALS (PRIME COAT)	0.001425 TON/SQ. YD. (ON AGG)
HOT MIX ASPHALT SURFACE / BINDER	0.056 TON/SQ. YD. PER 1" DEPTH
AGGREGATE MATERIAL	2.05 TON/CU. YD.
NITROGEN FERTILIZER NUTRIENT	90 LBS./ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS./ACRE
AGGREGATE PRIME COAT	0.002 TON/SQ. YD.

MIXTURE REQUIREMENTS

LOCATION(S)	SURFACE			
MIXTURE USE(S):	HOT MIX ASPHALT SURFACE COURSE MIX "D", N50 AND TEMPORARY RAMP	VAR. DEPTH BINDER	HMA SHOULDERS (LOWER LIFTS)	HMA SHOULDERS (SURFACE LIFT)
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
(MAX). RAP%	15%	25%	30%	30%
DESIGN AIR VOIDS	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N = 30	3.0% @ N = 30
MIXTURE COMPOSITION	IL 9.5 OR 12.5	IL 19.0	IL 19.0 L	IL 9.5 L
FRICTION AGGREGATE	MIX D	N/A	N/A	N/A

* IF THE RAP OPTIONS SELECTED THE ASPHALT CEMENT GRADE MAY BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

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 THE UPCHURCH GROUP, INC.

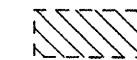
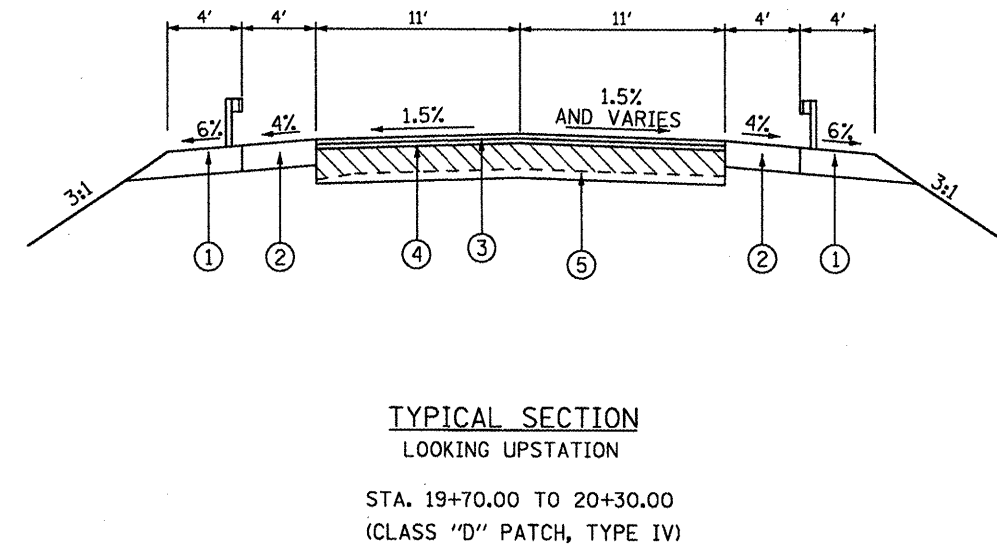
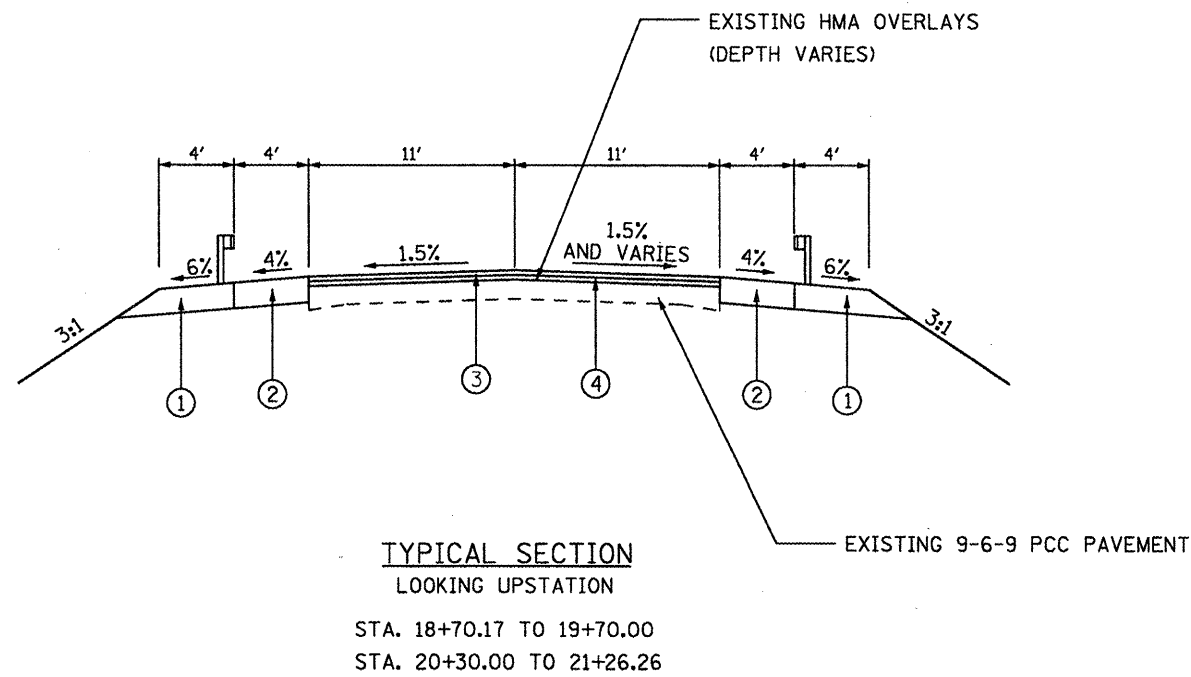
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	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND INDEX OF SHEETS
 COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3;136R;1098R-2	Henderson	470	470
CONTRACT NO. 88773				
FED. ROAD DIST. NO. 4 (ILLINOIS) FED. AID PROJECT				



EXIST PAV'T TO BE REMOVED
AND SHALL BE INCLUDED IN THE
COST OF THE CLASS D PATCHES
PAY ITEM.

SHOULDER NOTE:

PROVIDE AGGREGATE SHOULDER TYPE B 4' WIDE
STA. 18+70.17 LT TO STA. 19+00.17 LT
AND STA. 21+00.89 RT TO STA. 21+26.26 RT
(SEE PLAN AND PROFILE SHEET)

LEGEND

- ① PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL 8"
- ② PROPOSED HMA SHOULDER 8"
- ③ PROPOSED HMA SURFACE COURSE 1 1/2"
- ④ PROPOSED HMA BINDER COURSE (VARIES 3/4" TO 1 1/2")
- ⑤ PROPOSED CLASS D, PATCHES TYPE IV, 8 INCH

FILE NAME = typicalsections.dgn	USER NAME = _USER_	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		COUNTRY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK		665	1136,137W&RS-3;136R;109BR-2	Henderson	490	471
RUHMANN ENGINEERING, INC.	PLOT DATE = 2/19/2009 2:16:15 PM	CHECKED -	REVISED -	SCALE:	SHEET NO. 1 OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT		
		DATE -	REVISED -						CONTRACT NO. 88773		

ITEM NO. 28000300
TEMPORARY DITCH CHECKS

LOCATION	EACH
RT STA 18+50.99	1
RT STA 19+90.82	1
RT STA 19+72.08	1
RT STA 20+23.28	1
RT STA 21+07.97	1
RT STA 21+57.97	1
LT STA 18+49.22	1
LT STA 18+86.21	1
LT STA 19+70.40	1
LT STA 20+24.17	1
LT STA 21+07.97	1
LT STA 21+57.97	1
TOTAL = 12	

ITEM NO. 28000400
PERIMETER EROSION BARRIER

LOCATION	FOOT
RT STA 18+50 TO 19+87	137
RT STA 20+03 TO 21+50	147
LT STA 18+50 TO 19+86	136
LT STA 20+02 TO 21+50	148
TOTAL = 568	

ITEM NO. #4001878
HOT MIX ASPHALT BINDER COURSE
IL-9.5, N50 SPECIAL

LOCATION	THICKNESS	TON
STA 18+70.17 TO 21+26.26	VAR. 3/4" - 1 1/2"	54

ITEM NO. 40600215
POLYMERIZED BITUMINOUS MATERIALS
(PRIME COAT)

LOCATION	TON
STA 18+70.17 TO 21+26.26	0.5

ITEM NO. 40600982
HOT-MIX ASPHALT SURFACE REMOVAL
BUTT JOINT

LOCATION	SQ. YD.
STA 18+70.17 TO 19+00.17	74
STA 20+96.26 TO 21+26.26	74
TOTAL = 148	

ITEM NO. 40603335
HOT-MIX ASPHALT SURFACE COURSE
MIX "D", N50

LOCATION	THICKNESS	TON
STA 18+70.17 TO 21+26.26	1 1/2"	54

ITEM NO. 48101200
AGGREGATE SHOULDERS, TYPE B

LOCATION	TON
RT STA 21+00.89 TO 21+26.26	4
LT STA 18+70.17 TO 18+94.66	4
TOTAL = 8	

ITEM NO. 48203029
HOT-MIX ASPHALT SHOULDERS, 8"

LOCATION	SQ. YD.
RT STA 18+70.17 TO 21+00.89	102
LT STA 18+94.66 TO 21+26.26	103
TOTAL = 205	

ITEM NO. X0301512
GUARDRAIL AGGREGATE EROSION CONTROL

LOCATION	TON
RT STA 18+70.17 TO 21+00.89	41
LT STA 18+94.66 TO 21+26.26	41
TOTAL = 82	

ITEM NO. 44201747
CLASS "D" PATCH, TYPE IV, 8"

LOCATION	SQ. YD.
STA 19+32.22 TO 20+57.69	147

ITEM NO. 78001110
PAINT PAVEMENT MARKING - LINE 4"

LOCATION	FEET
STA 18+70.17 TO 21+26.26	512

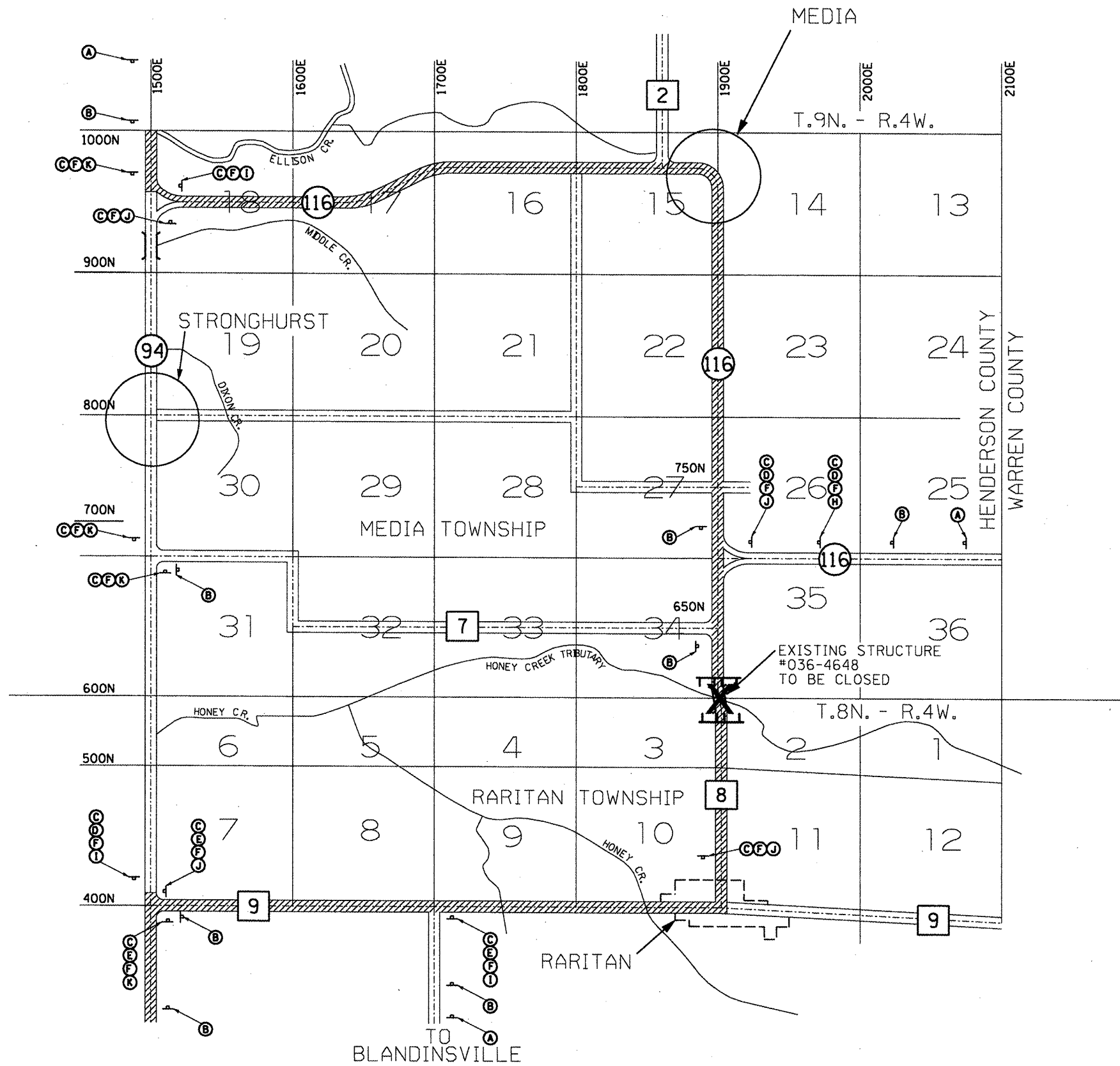
GUARDRAIL SCHEDULE		
ITEM	LOCATION	QUANTITY
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6.75 FT POSTS (ITEM NO. 63000002)	RT STA 19+59.88 TO STA. 19+84.88 LT STA 20+11.13 TO 20+36.13	25 LF 25 LF
STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURE (ITEM NO. 63000025)	RT STA 19+84.88 TO 20+11.13 LT STA (SAME AS ABOVE)	26.25 LF 26.25 LF
TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TAN) (ITEM NO. 63100167)	RT STA 19+09.88 TO 19+59.88 RT STA 20+11.13 TO 20+61.13 LT STA 19+34.88 TO 19+84.88 LT STA 20+36.13 TO 20+86.13	1 EA 1 EA 1 EA 1 EA
GUARDRAIL REMOVAL (ITEM NO. 63200310)	RT STA 19+63.29 TO 19+88.01 RT STA 20+10.78 TO 20+36.07 LT STA 19+63.11 TO 19+88.40 LT STA 20+11.05 TO 20+36.20	24.72 LF 25.29 LF 25.29 LF 25.15 LF
TERMINAL MARKER - DIRECT APPLIED (ITEM NO. 78201000)	RT STA 19+09.88 RT STA 20+61.13 LT STA 19+34.88 LT STA 20+86.13	1 EA 1 EA 1 EA 1 EA
GUARDRAIL MARKERS, TYPE A (ITEM NO. 78200410)	RT STA 19+59.88 TO 20+11.13 LT STA 19+84.88 TO 20+36.13	4 EA 4 EA

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FUHRMANN ENGINEERING, INC.	PLOT DATE = 2/19/2009 2:15:07 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES
COUNTRY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK
SCALE: SHEET NO. 2 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	136.137W&RS-3;136R;109BR-2	Henderson	490	172
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				CONTRACT NO. 88773



Sign Legend

- (A) W20-2-4848 DETOUR AHEAD
- (B) R11-3-6030 CH 8 CLOSED XX MILES N. OF RARITAN
- (C) M4-8-2412 DETOUR
- (D) M3-3-2115 SOUTH
- (E) M3-1-2115 NORTH
- (F) M1-5-2424 CH 8
- (G) M5-1-2115 ←
- (H) M5-1-2115 →
- (I) M6-1-2115 ←
- (J) M6-1-2115 →
- (K) M6-3-2115 ↑

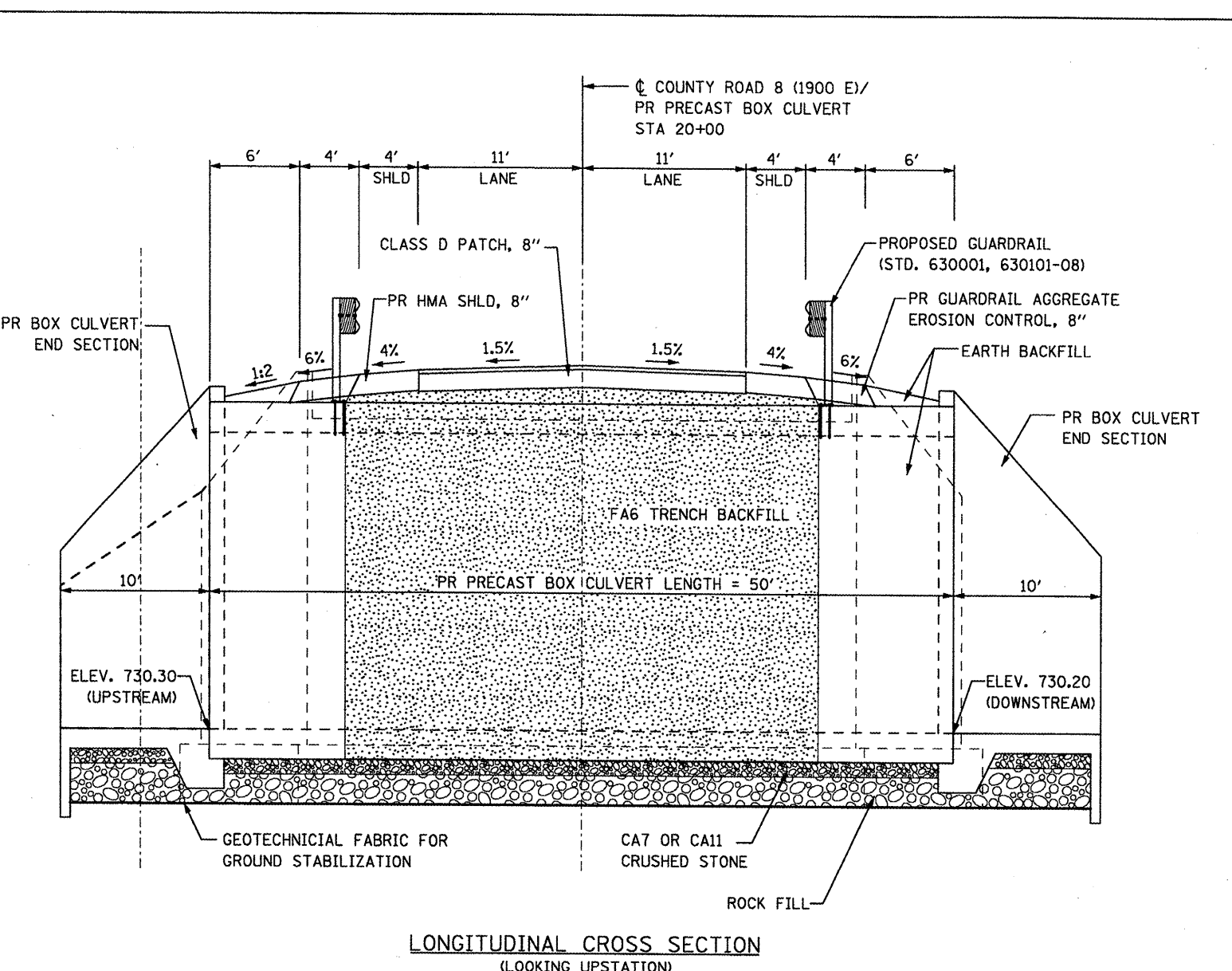
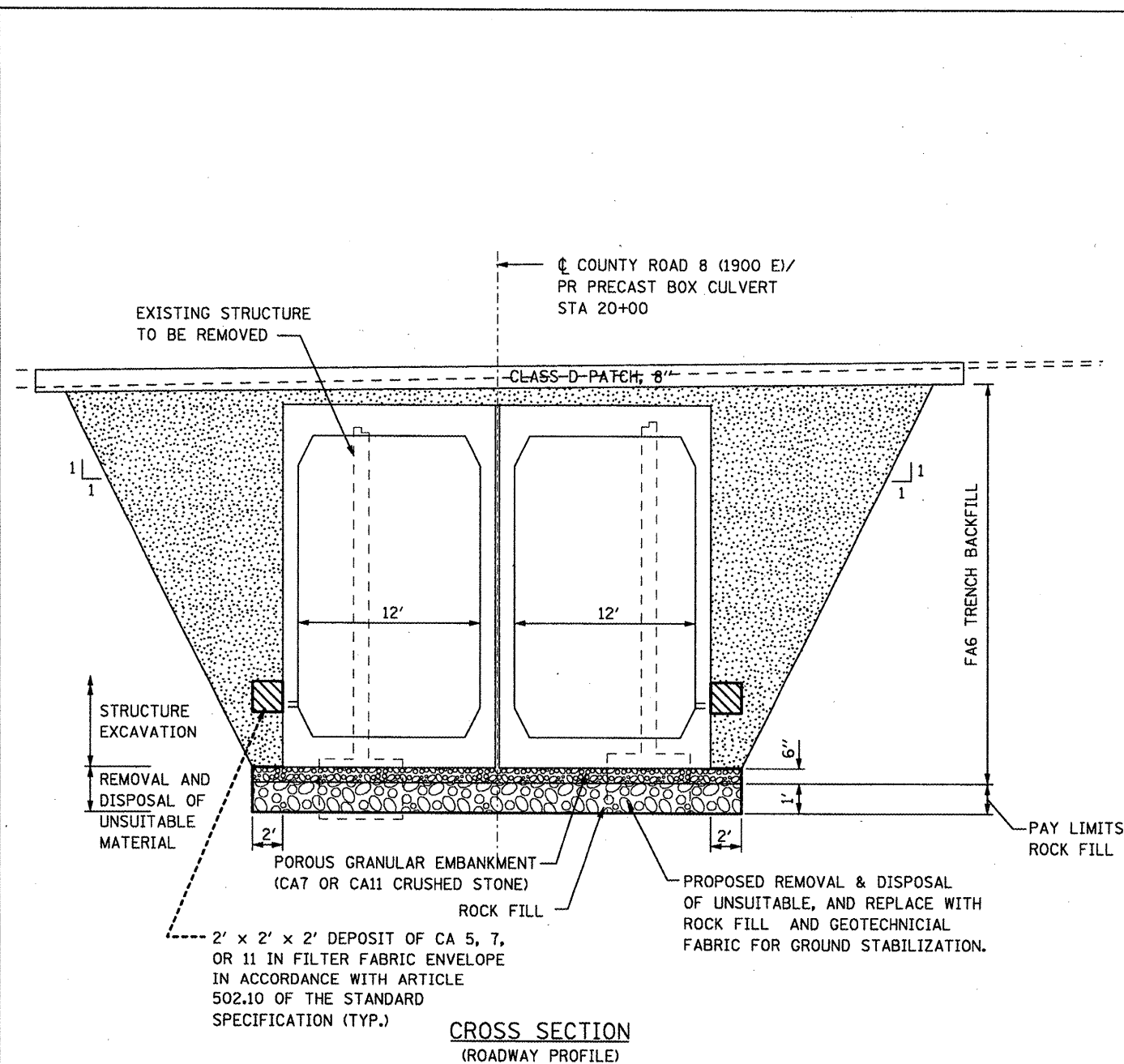
Legend

T — detour sign

X — closure

Sign placement and spacing will be as directed by the Resident Engineer

FILE NAME = CH8 Detour.dgn	USER NAME = k11markk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY DETOUR PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK		665	(136,137)W&RS-3h136R109BR-2	HENDERSON	47	47
		CHECKED -	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 88773			
		DATE -	REVISED -		FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT						



NOTES:

1. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 502 AND PAYMENT FOR STRUCTURE EXCAVATION SHALL BE IN ACCORDANCE TO ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS.
2. POROUS GRANULAR EMBANKMENT SHALL BE PLACED IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT PAY ITEM.
3. WRAP POROUS GRANULAR MATERIAL AND ROCK FILL IN FABRIC. THE FABRIC SHALL BE ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE PORTIONS OF SECTION 1080 AND SECTION 282 WITH 6 OR 8 OZ/SQ YD MATERIAL ALLOWED.
4. THE COST OF THE TRENCH BACKFILL SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT PAY ITEM.

ITEM	UNIT	QUANTITY
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	272
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ. YD.	331
STRUCTURE EXCAVATION	CU. YD.	671
ROCKFILL	TON	209

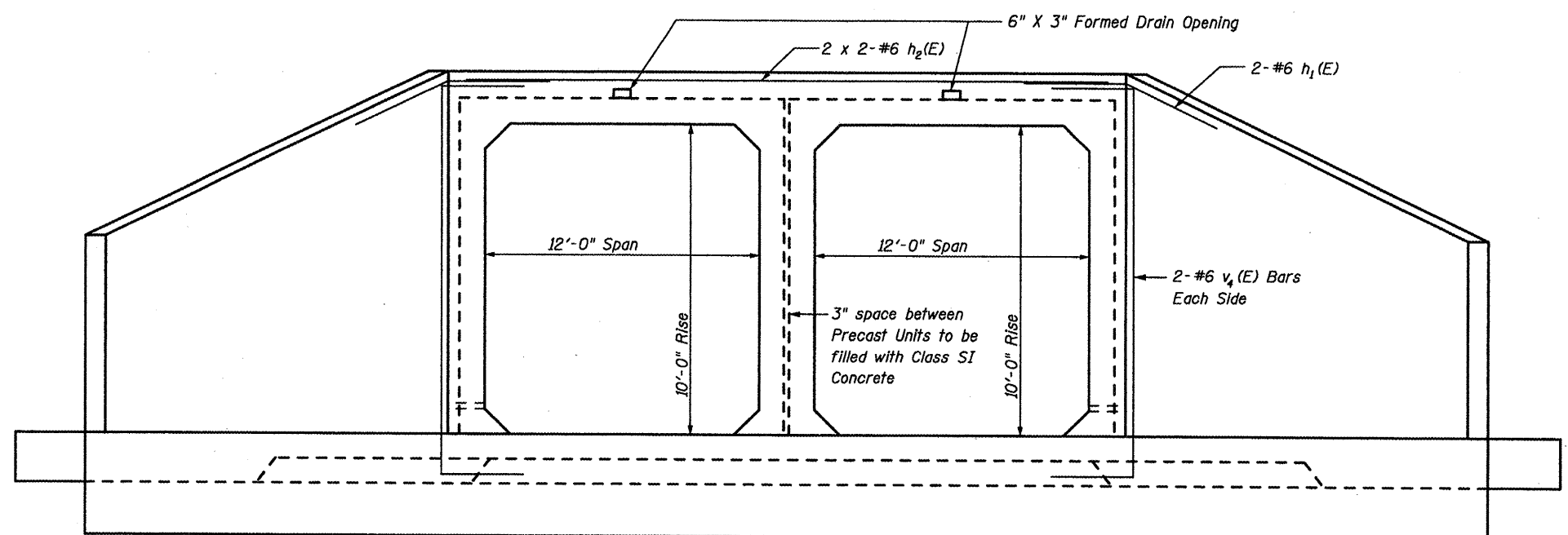
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

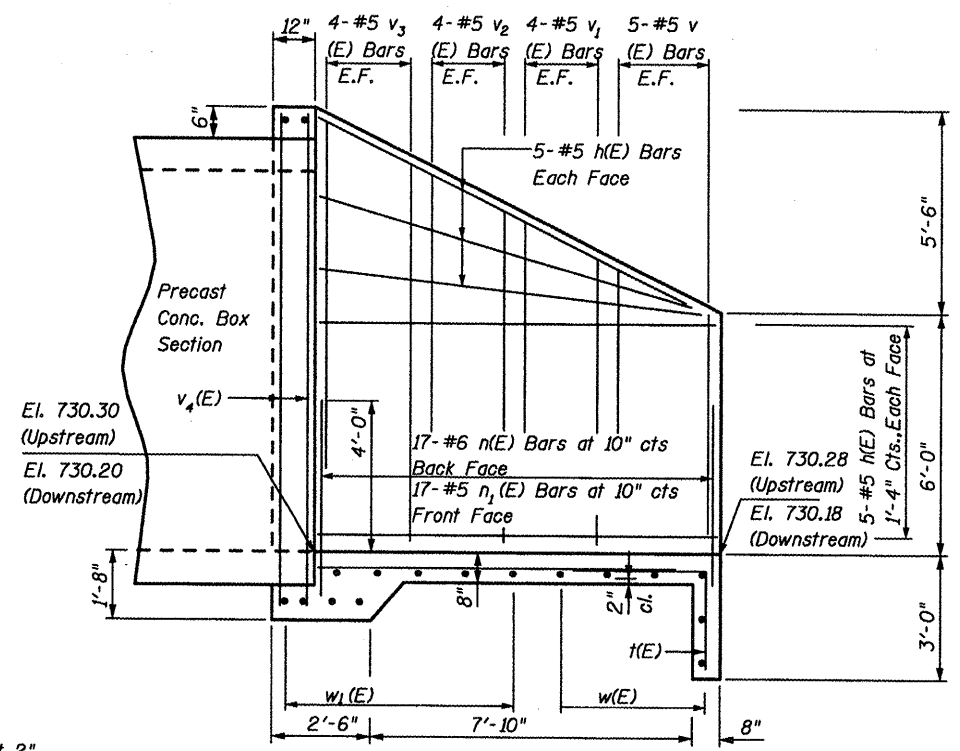
**EXCAVATION AND BACKFILL DETAILS FOR PRECAST BOX CULVERT
COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	1136.137W&RS-3;136R;109BR-2	Henderson	490	415
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT			CONTRACT NO. 88773	

THE UPCHURCH GROUP, INC.



END ELEVATION



HALF SIDE ELEVATION

NOTES

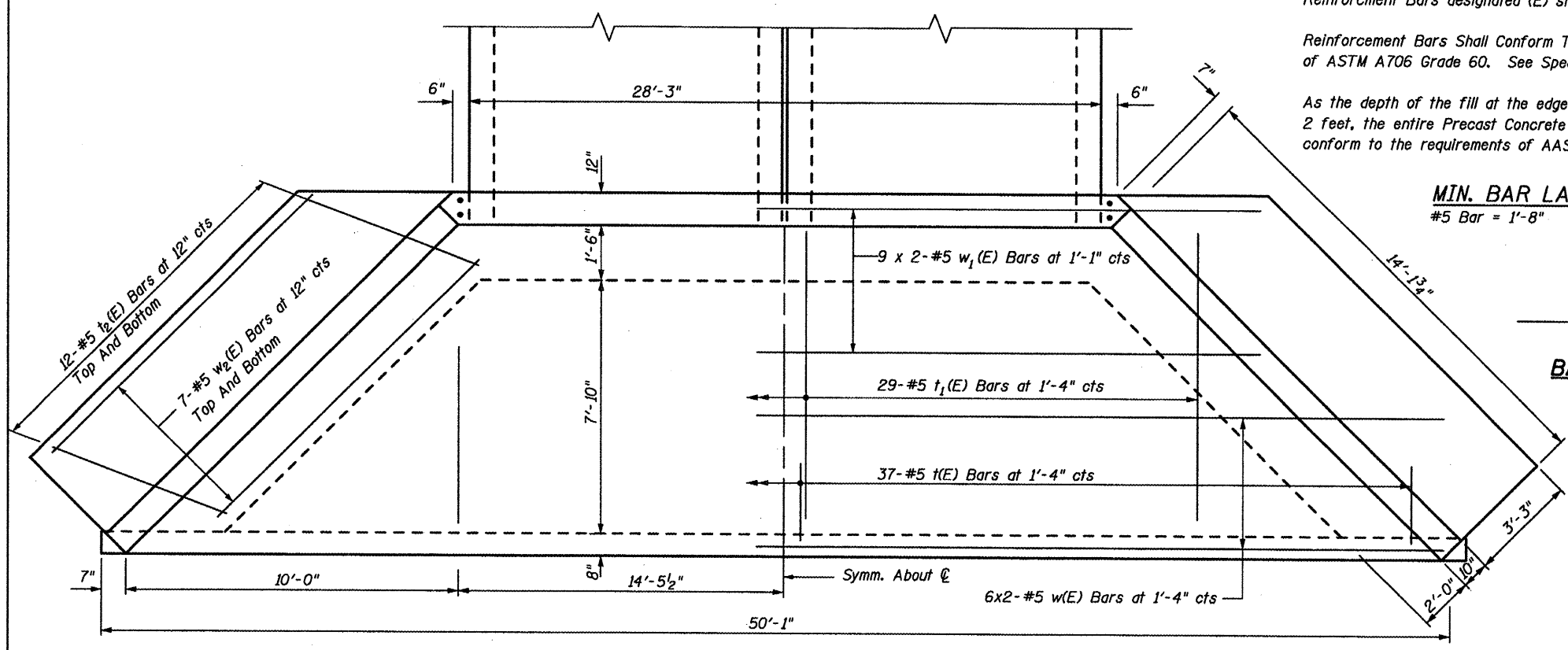
- Minimum Cover To Reinforcement 2".
- Exposed Edges Shall Be Beveled 3/4".
- Reinforcement Bars designated (E) shall be epoxy coated.
- Reinforcement Bars Shall Conform To The Requirements of ASTM A706 Grade 60. See Special Provisions.
- As the depth of the fill at the edge of shoulder is less than 2 feet, the entire Precast Concrete Box Culvert shall conform to the requirements of AASHTO M273.

BILL OF MATERIAL

(For Two End Sections)

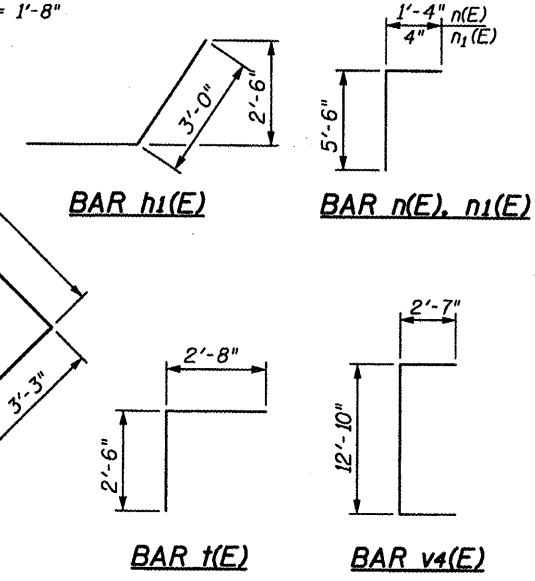
Bar	No.	Size	Length	Shape
h(E)	80	#5	13'-10"	—
h1(E)	8	#6	6'-0"	—
h2(E)	8	#6	15'-4"	—
n(E)	68	#6	6'-10"	┌
n1(E)	68	#5	5'-10"	┌
t(E)	74	#5	5'-2"	┌
t1(E)	58	#5	8'-8"	—
t2(E)	96	#5	6'-3"	—
v(E)	40	#5	5'-8"	—
v1(E)	32	#5	6'-4"	—
v2(E)	32	#5	7'-8"	—
v3(E)	32	#5	9'-0"	—
v4(E)	8	#6	18'-0"	—
w(E)	24	#5	25'-8"	—
w1(E)	36	#5	19'-9"	—
w2(E)	56	#5	11'-1"	—
Concrete Headwalls			Cu. Yd.	64
Reinforcement Bars, Epoxy Coated			Pound	7320

Bars indicated thus 6 x 2-#5 etc. indicates 6 lines of bars with 2 lengths per line.



PLAN

MIN. BAR LAP
#5 Bar = 1'-8"



FILE NAME = ...D488773-shr-culvert.dgn
 THE UPCHURCH GROUP, INC.

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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

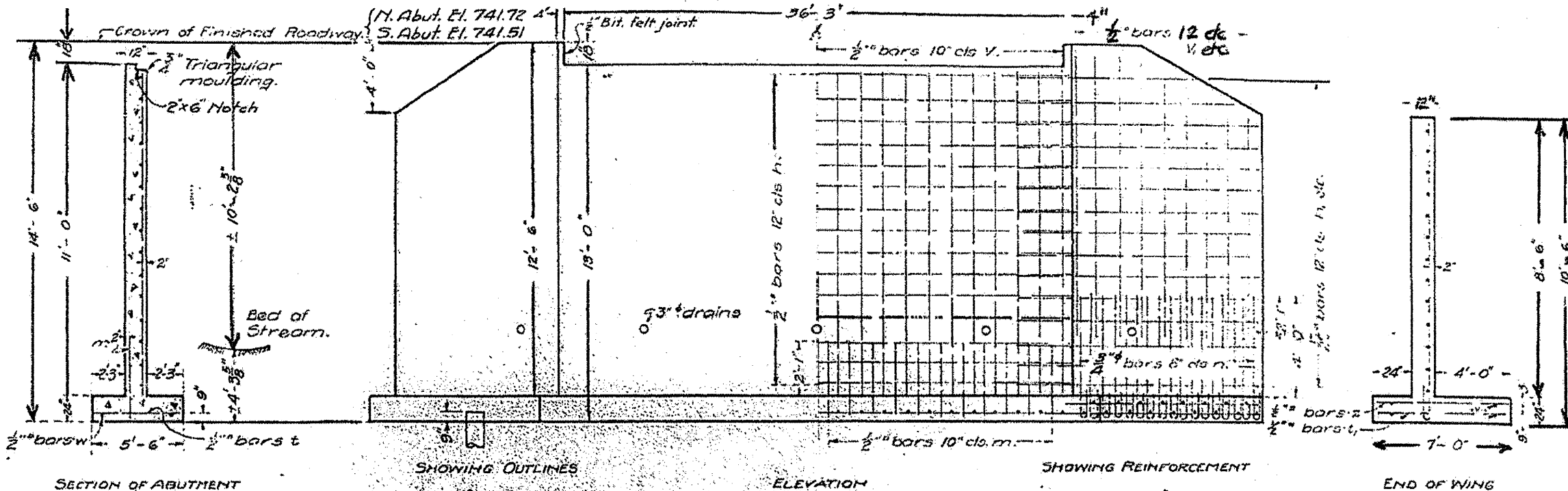
CULVERT END SECTION DETAILS
 COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	1136,137W&R5-3:136R109BR-2	Henderson	490	476
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT			CONTRACT NO. 88773	

Existing Structure - Slab bridge 18' span
 20' roadway to be removed by contractor
 B.M. #27 - S. & W. Vert. in 24" Elm
 Lt. Sta. 410+42 Elev. 754.48

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS
R.C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 14 FEET 6 INCHES

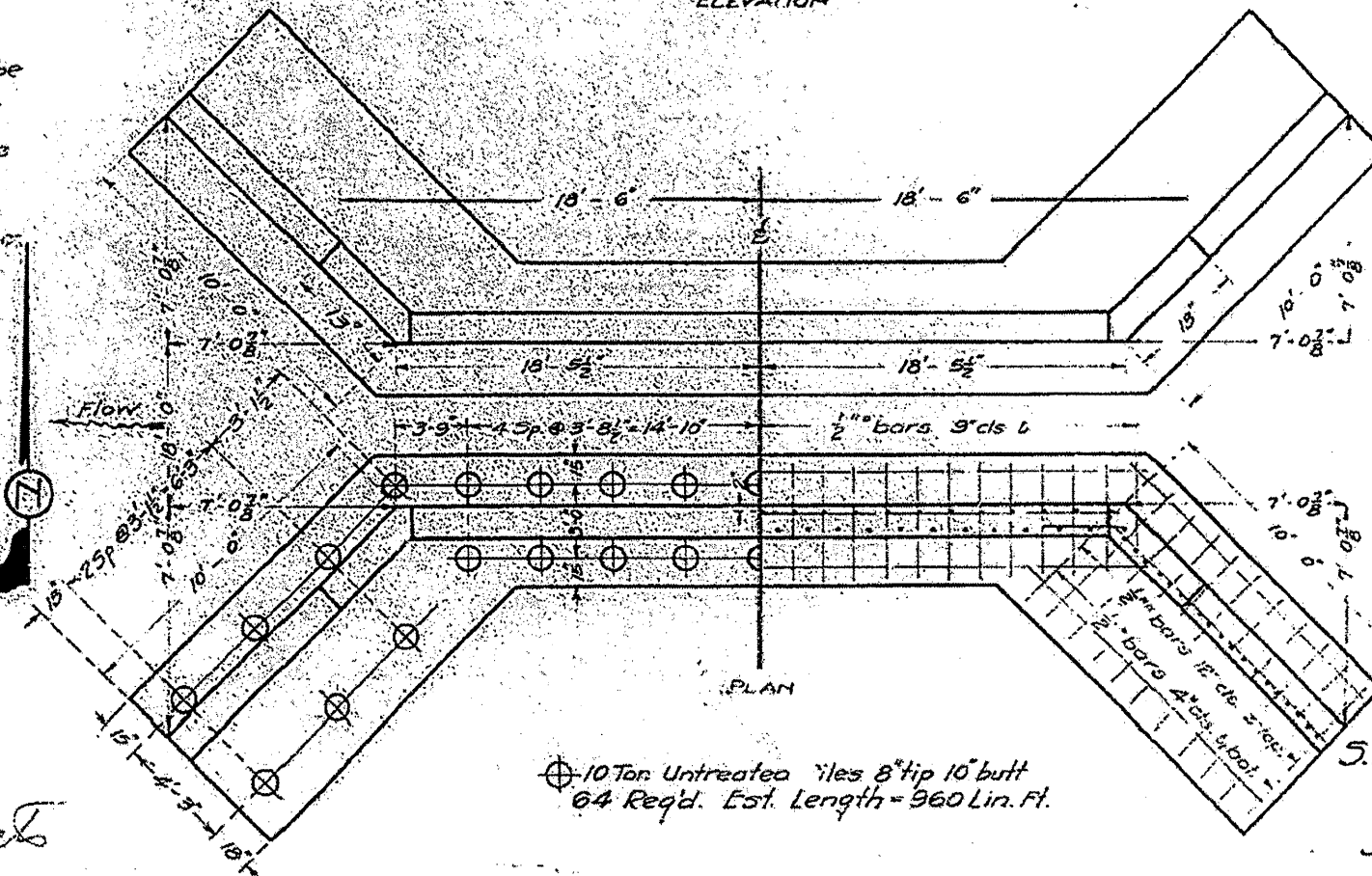
BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
97 A	Henderson	135	31	28



Class X Concrete shall be used in Footings.
 Proportions 1-2-3 1/2
 Class A concrete shall be used above top of footings.
 Proportions 1-2-3-4
 All reinforcing steel shall be securely wired in place before concrete is poured.

BILL OF MATERIAL

Bars	No	Size	Length
V	90	1/2"	10'-9"
V	12	1/2"	10'-0"
V	12	1/2"	8'-6"
V	16	1/2"	7'-0"
H	44	1/2"	19'-6"
H	36	1/2"	11'-6"
H	8	1/2"	7'-6"
T	80	3/4"	
L	100	1/2"	5'-3"
L	136	1/2"	6'-3"
L	40	1/2"	6'-9"
V	8	1/2"	19'-6"
V	16	1/2"	10'-6"
V	90	1/2"	3'-0"
Concrete Cl. A - Cu. Yds 433			
Reinforcing Steel - Lbs 5040			
Concrete Cl. X - Cu. Yds 49.8			



COMPUTED	H.P. Duffell
CHECKED	L.D. Looney
DRAWN	J.H. Walker
CHECKED	H.P.D.
ASSEMBLED	I.B. Kirkwood
CHECKED	F.R. Anderson

EXAMINED **W.C. 5-28**
J.F. Burch
 ENGINEER
Frank Chiles
 CHIEF HIGHWAY ENGINEER

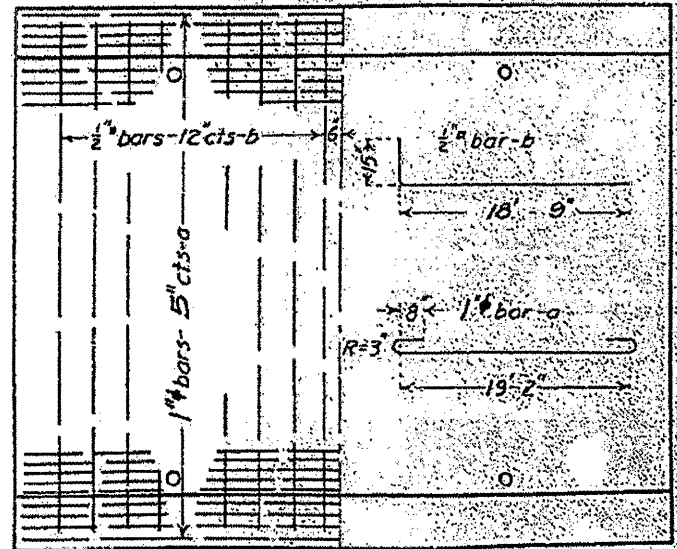
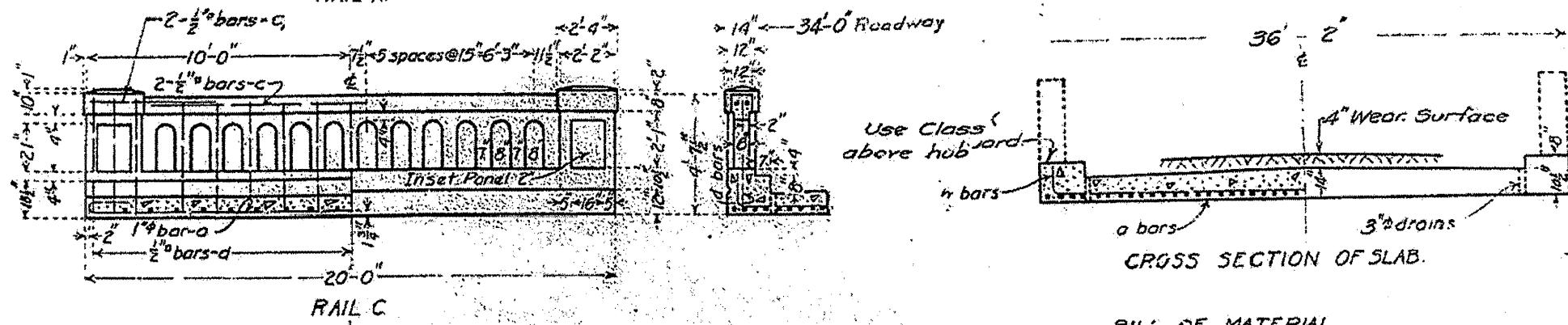
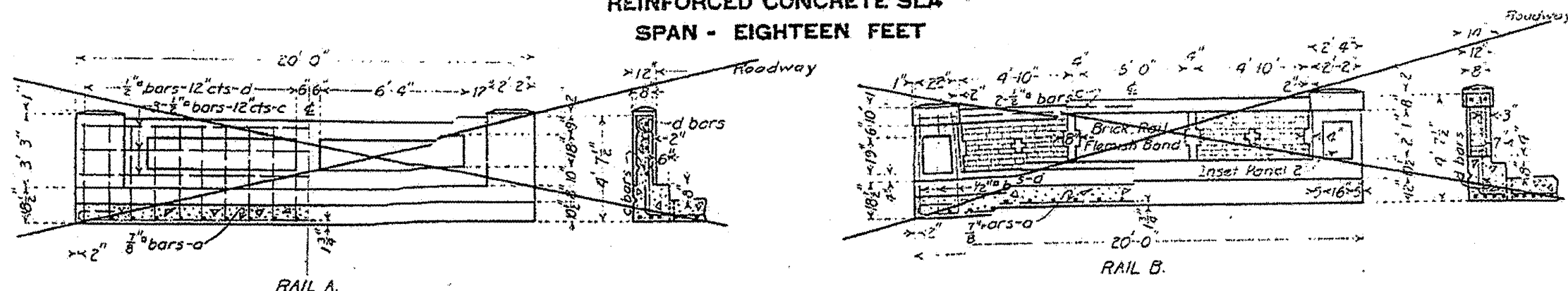
S.B.I. ROUTE 97A SEC. 135
 HENDERSON COUNTY
 STATION 413+70
 980

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
97A	Henderson	135	31	28

Sheet No. 28 of 31

REINFORCED CONCRETE SLAB
SPAN - EIGHTEEN FEET



BILL OF MATERIAL

	16 FT. ROADWAY	18 FT. ROADWAY	20 FT. ROADWAY	24 FT. ROADWAY	34 FT. ROADWAY
RAIL A	Steel-Lbs. 3120 Concrete-Cu.Yds. 17.7	Steel-Lbs. 3440 Concrete-Cu.Yds. 19.2	Steel-Lbs. 3750 Concrete-Cu.Yds. 20.6	Steel-Lbs. 4420 Concrete-Cu.Yds. 23.5	Steel-Lbs. 5430 Concrete-Cu.Yds. 27.9
RAIL B	Steel-Lbs. 2980 Concrete-Cu.Yds. 16.7	Steel-Lbs. 3300 Concrete-Cu.Yds. 18.1	Steel-Lbs. 3620 Concrete-Cu.Yds. 19.6	Steel-Lbs. 4290 Concrete-Cu.Yds. 22.5	Steel-Lbs. 5308 Concrete-Cu.Yds. 26.8
RAIL C	Steel-Lbs. 3060 Concrete-Cu.Yds. 17.4	Steel-Lbs. 3380 Concrete-Cu.Yds. 18.1	Steel-Lbs. 3700 Concrete-Cu.Yds. 20.1	Steel-Lbs. 4370 Concrete-Cu.Yds. 23.0	Steel-Lbs. 5390 Concrete-Cu.Yds. 28.5

Class A concrete to be used below top of hubguard Proportions 1:2:4
Class X Concrete to be used above top of hubguard Proportions 1:2:3 1/2

S.B.I. ROUTE 97A SEC. 135
HENDERSON COUNTY
STATION 413 + 70

COMPUTED	Walter S. Todd	DRAWN	W. S. Todd
CHECKED	J. H. Buchanan	DESIGNED	J. H. Buchanan
DRAWN	H. B. Delaney	APPROVED	J. H. Buchanan
CHECKED	at K. Delaney	ENGINEER OF DESIGN	J. H. Buchanan
ASSEMBLED	J. B. Kirkwood	APPROVED	J. H. Buchanan
CHECKED	F. R. Anderson	CHIEF HIGHWAY ENGINEER	J. H. Buchanan



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
 (136, 137)W&RS-3; 136R;
 SECTION 109BR-2 LOCATION Media Township; SW 1/4, SEC. 35, TWP. 9N, RNG. 4W,
 COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	DEPT	BLOGS	UCS	M	Surface Water Elev.	DEPT	BLOGS	UCS	M
Station	H	S	Qu	T	ft	H	S	Qu	T
036-0034 (existing)					733.10				
53					730.70				
19+67					724.1				
11 ft Lt					733.1				
742.1					Backfilled				
ASPHALT - 2 inches					SANDY LOAM: Gray (A-2)				
FILL: Milled asphalt and crushed rock					(continued)				
740.1									
FILL: Brown and dark brown sandy clay loam (A-6)									
738.6									
FILL: Dark brown clay loam (A-7)									
No recovery - auger cuttings obtained.									
736.6									
CLAY: Dark brown (A-7)					Trace thin organic deposits				
734.1									
SILTY CLAY LOAM: Gray (A-7)									
731.6									
SANDY CLAY LOAM: Gray, trace to some fine gravel (A-6)					Harder drilling at 32 feet.				
Approximately 8 inches of soft sediment observed in stream bed south of bridge to approximate El. 730.					SILTSTONE WITH SANDY SHALE: Gray				
729.1									
SANDY LOAM: Gray (A-2)					Upon removal of lead auger, carbide teeth were worn off.				
707.6					End of Boring at 34.5 ft.				

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)
 AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 1

ROUTE 534 (IL 94) DESCRIPTION Culvert Boring LOGGED BY SCI
 (136, 137)W&RS-3; 136R;
 SECTION 109BR-2 LOCATION Media Township; SW 1/4, SEC. 35, TWP. 9N, RNG. 4W,
 COUNTY Henderson DRILLING METHOD CME 45 w/HSA HAMMER TYPE Automatic

STRUCT. NO.	DEPT	BLOGS	UCS	M	Surface Water Elev.	DEPT	BLOGS	UCS	M
Station	H	S	Qu	T	ft	H	S	Qu	T
036-0034 (existing)					733.10				
54					730.70				
20+38					730.4				
13 ft Rt					729.4				
741.4					Backfilled				
CRUSHED ROCK - 8 inches estimated					SANDY LOAM: Gray (A-2)				
FILL: Brown silty clay loam (A-7)					(continued)				
740.7									
FILL: Brown and dark brown silty clay (A-6)									
737.4									
CLAY LOAM: Dark brown (A-7)									
735.9									
SANDY CLAY LOAM: Gray, trace organics (A-7)					Becomes light brown, trace to some organics and trace fine gravel				
733.4									
SANDY LOAM: Gray, trace fine gravel (A-2)									
730.9									
CLAY LOAM: Brown (A-7)					Harder drilling at 32 feet.				
Approximately 8 inches of soft sediment observed in stream bed south of bridge to approximate El. 730.					SILTSTONE WITH SANDY SHALE: Gray				
728.4									
Becomes gray and brown SANDY LOAM: Gray (A-2)					Carbide teeth on lead auger worn off in B-53. Additional augering with second lead auger in B-54 stopped at 33.5 feet due to possible breakage or excessive wear on carbide teeth.				
707.4					End of Boring at 34.0 ft.				

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)
 AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8-99)

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 THE UPCHURCH GROUP, INC.

USER NAME = _USER_
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 DATE -

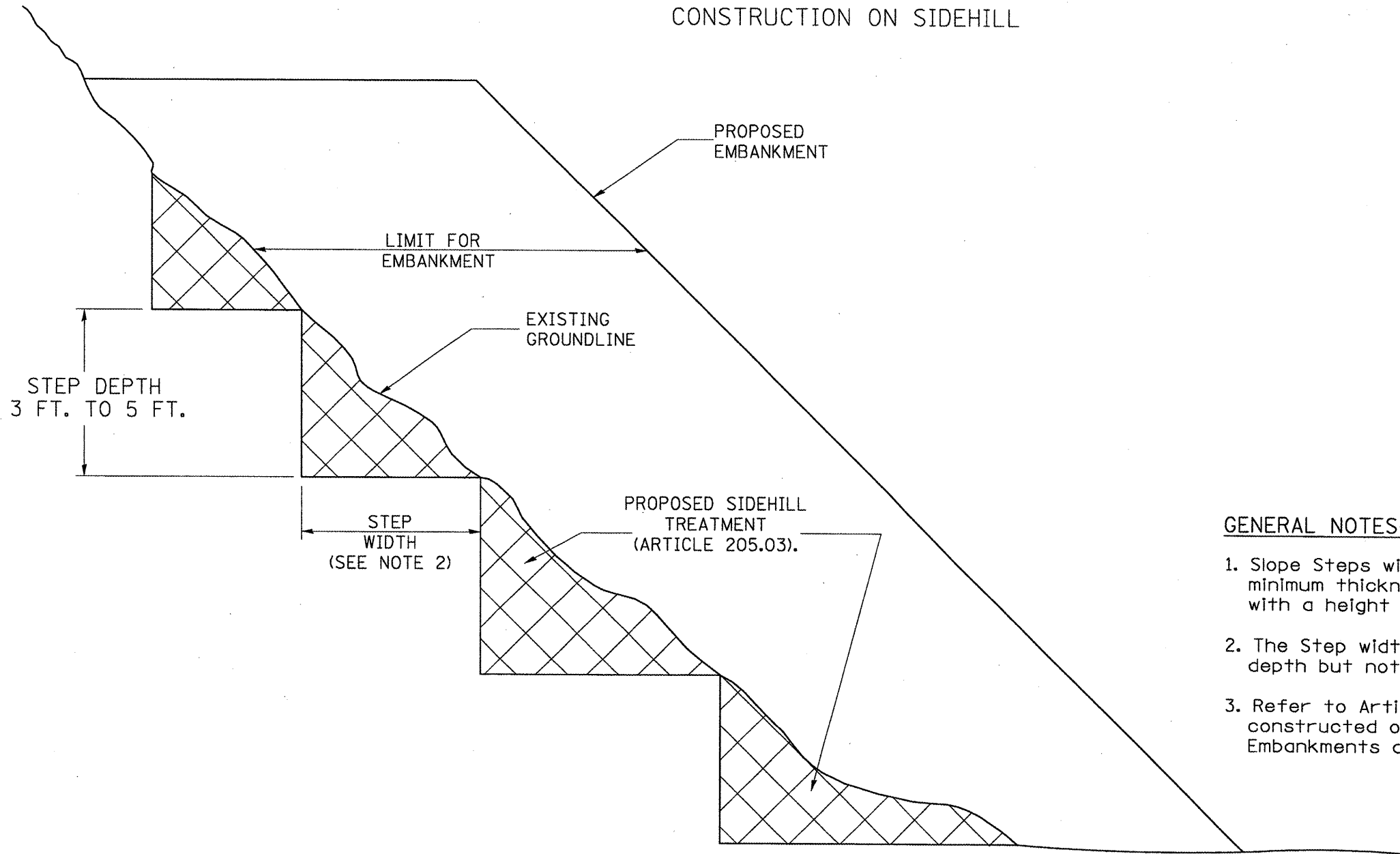
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 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
 COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 665 136,137W&RS-3;136R;109BR-2 Henderson 490 479
 CONTRACT NO. 88773
 FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT

SLOPE STEPS DETAIL
TYPICAL CROSS-SECTION EMBANKMENT
CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

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

REPLACEMENT MATERIAL:



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

DESIGNER NOTE:

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

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

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		1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX,	T.P.
	PLOT SCALE = #SCALE#		REVISED GENERAL NOTES.	
	PLOT DATE = 2/19/2009 2:07:41 PM	10-16-06	REVISED TO 2007 SPEC.	M.A.

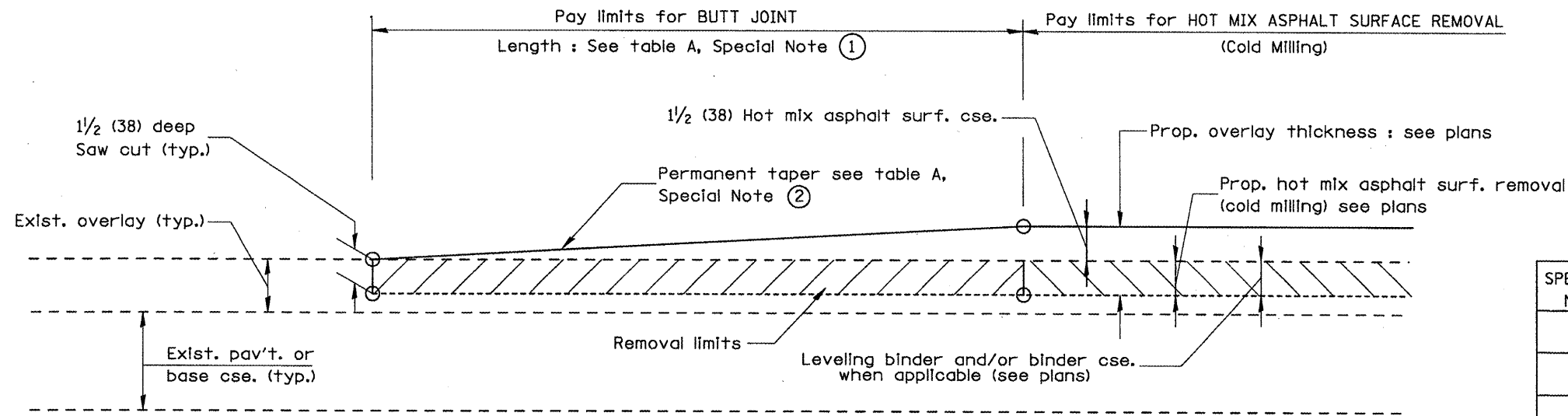
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPE STEPS DETAIL
COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	136,137W&RS-3136R109BR-2	Henderson	490	480
CADD STD 205001-04				CONTRACT NO. 88773
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).
 2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



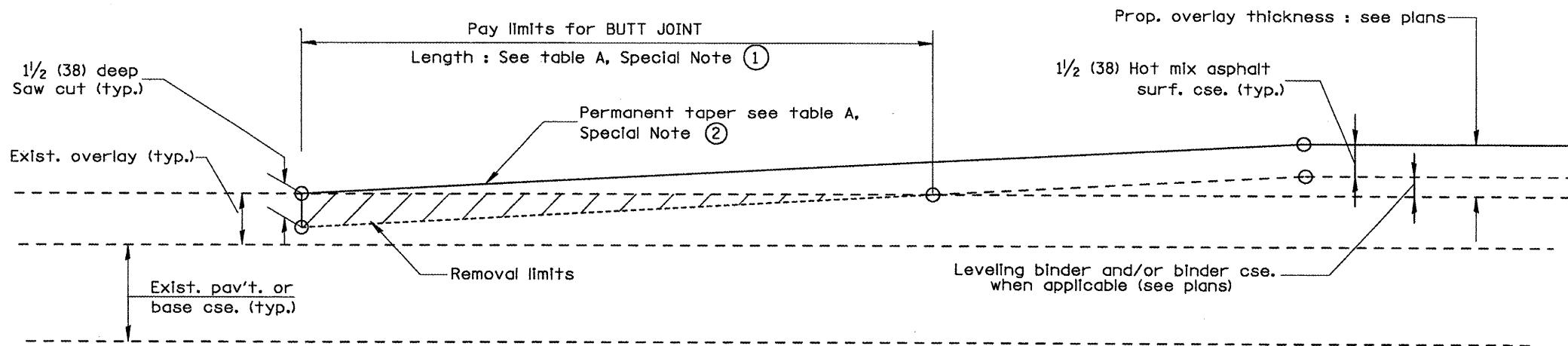
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

GENERAL NOTES

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- 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.
- 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.

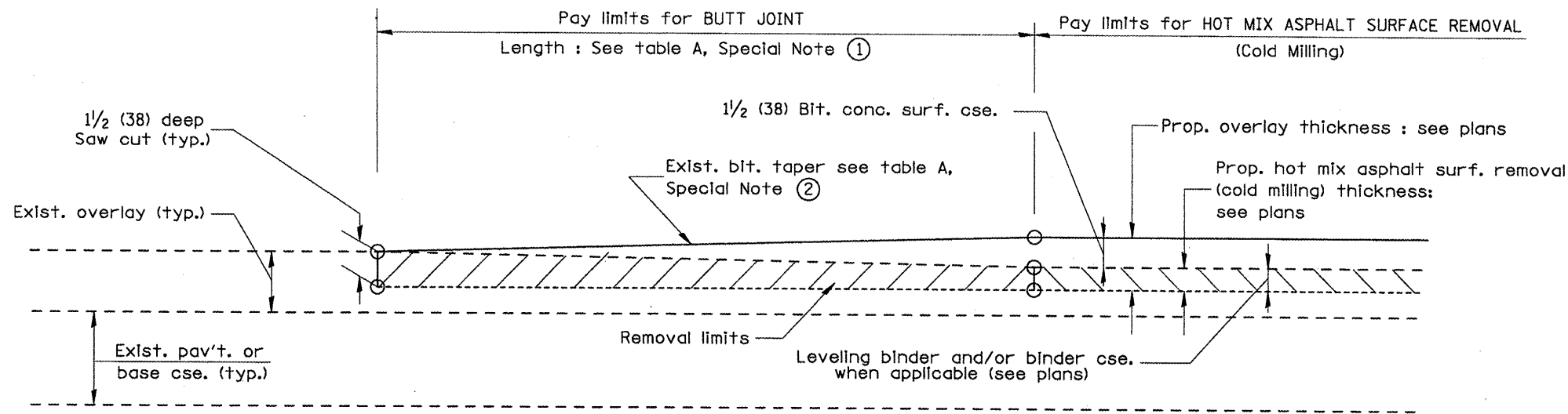


CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

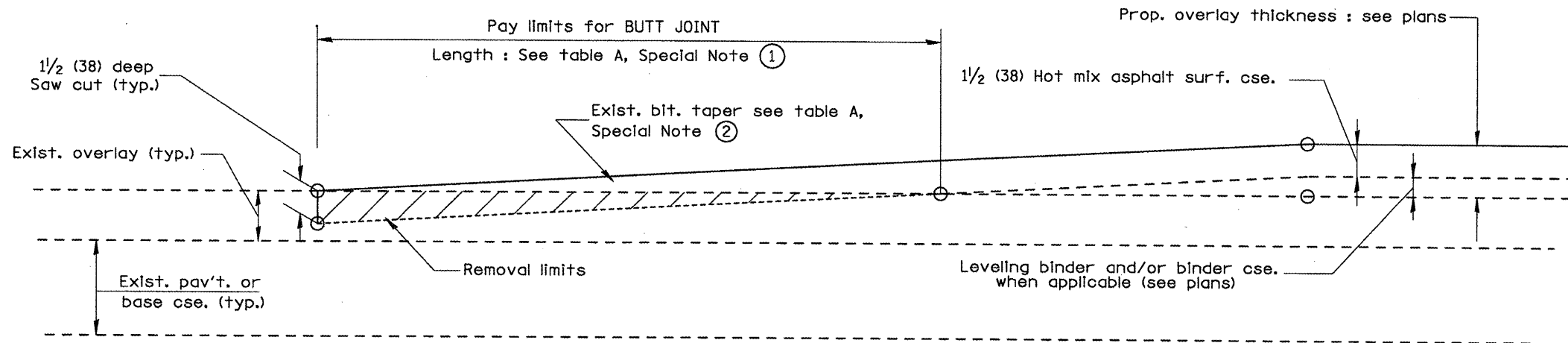
All dimensions are in inches (millimeters) unless otherwise noted.

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THE UPCHURCH GROUP, INC.	PLOT SCALE = #SCALE#	1-1-97	RENUM. C-23.01, NEW REVISION BOX	T.P.			665	136.1371W&RS-3;136R;109BR-2	Henderson	49048	
PLOT DATE = 2/19/2009 2:08:07 PM	9-15-05 REVISED DESIGNER NOTE/10-16-06 REVISED TO 2007 SPEC.	M.A.	CORRECTION TO DEPTH	J.A.			CADD STD 406101-04	SHT 1 OF 3	CONTRACT NO. 88773		

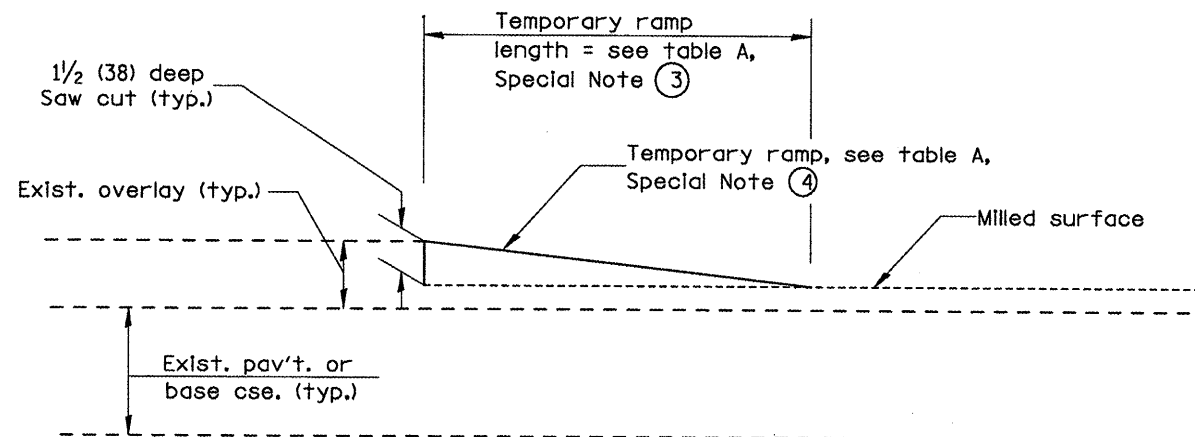
SCALE: NTS SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT



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



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



DETAIL TEMPORARY RAMP

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

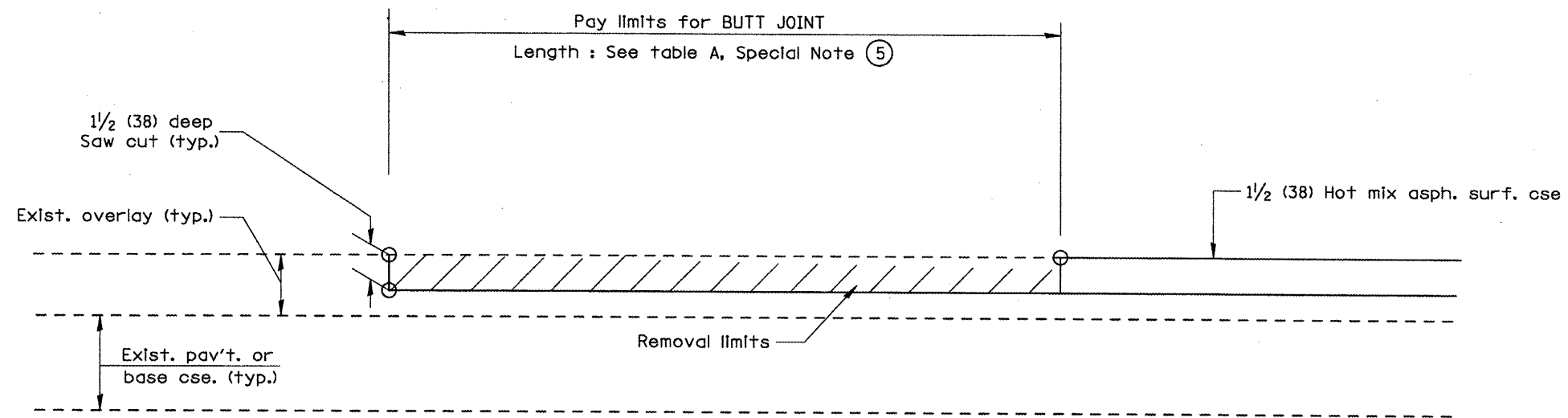
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PLOT DATE = 2/19/2009 2:08:24 PM				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS
COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	1136.137W&RS-3;136R;109BR-2	Henderson	490	482
CADD STD 406101-04		SHT 2 OF 3	CONTRACT NO. 88773	
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

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

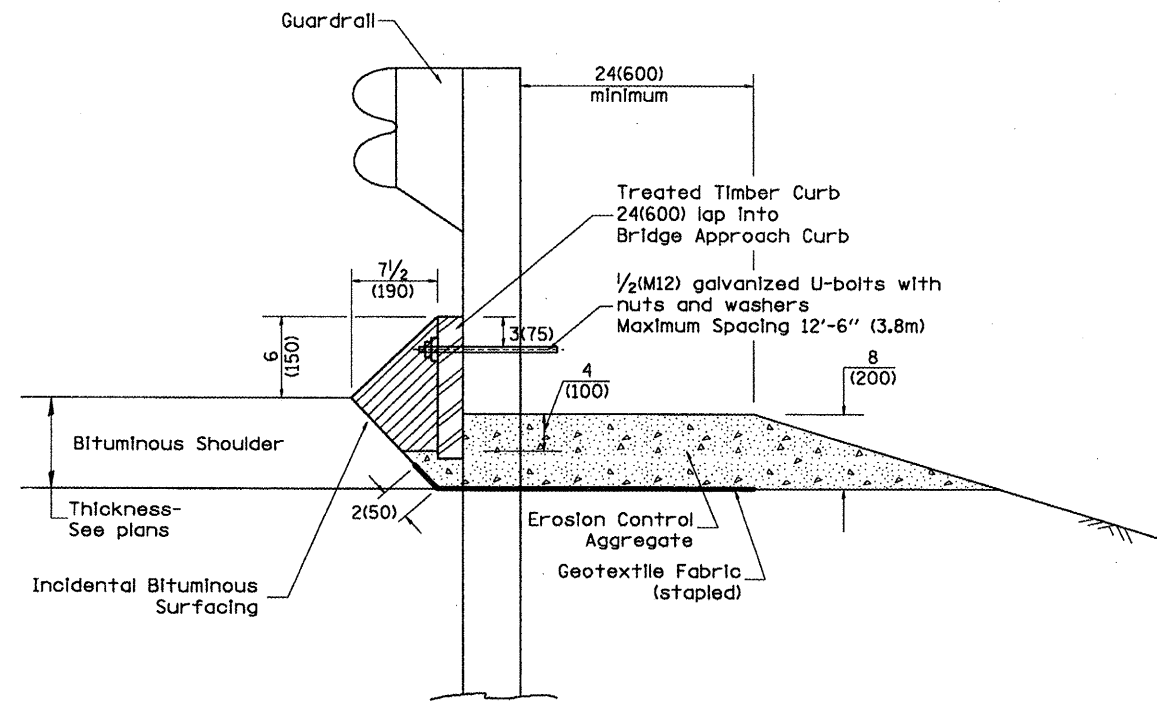


CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

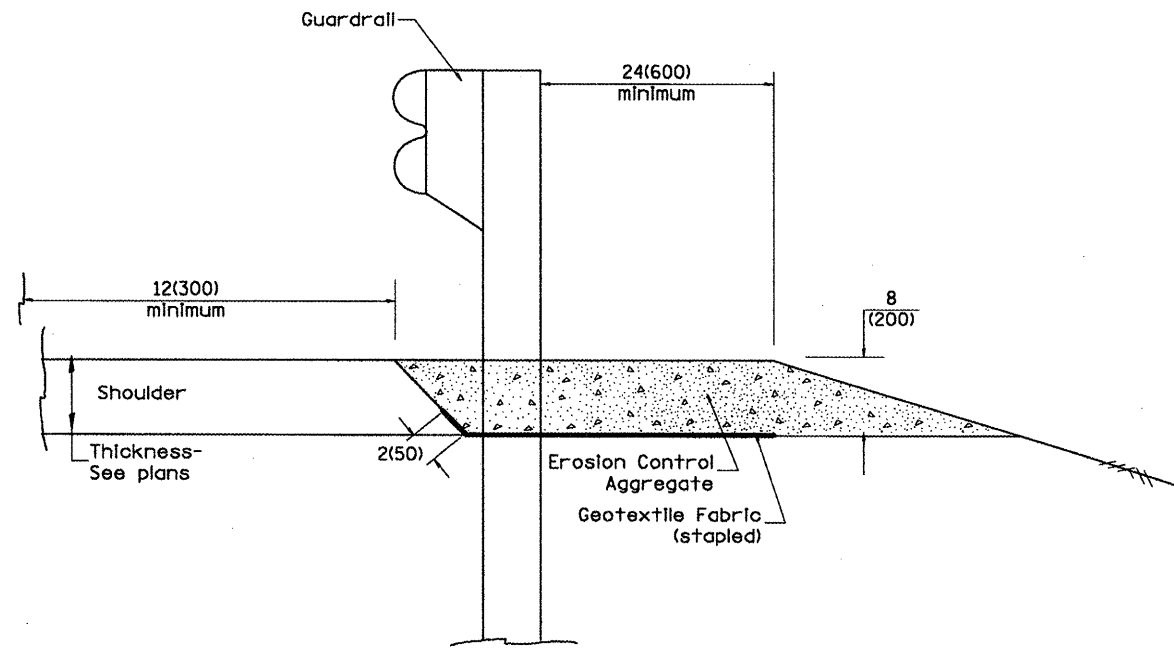
All dimensions are in inches (millimeters) unless otherwise noted.

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THE UPCHURCH GROUP, INC.	PLOT SCALE = #SCALE#					COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK	665	136.137W&RS-3:136R:109BR-2	Henderson	49	483	
PLOT DATE = 2/19/2009 2:08:41 PM						SCALE: NTS	SHEET NO.	OF SHEETS	STA.	TO STA.	CADD STD 406101-D4 SHT 3 OF 3	CONTRACT NO. 88773
											FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT	

DESIGNER NOTE: 1. Use EROSION CONTROL CURB at guardrail installations where grades are equal to or greater than 1% and at inlets. (Include District Special Provision)
 2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (Include District Special Provision)
 3. Include State Standards 609001, 609006 or 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; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
 5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

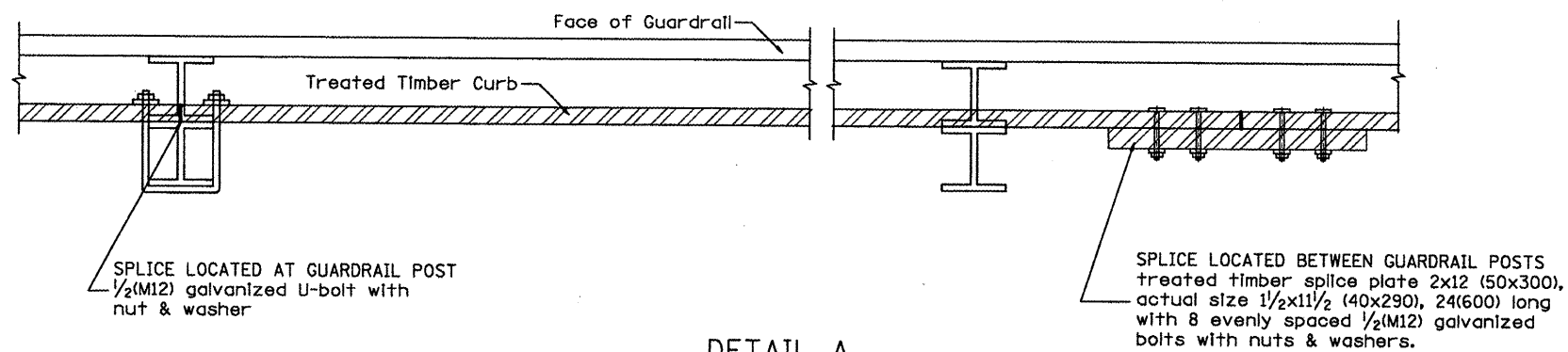
1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m³)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

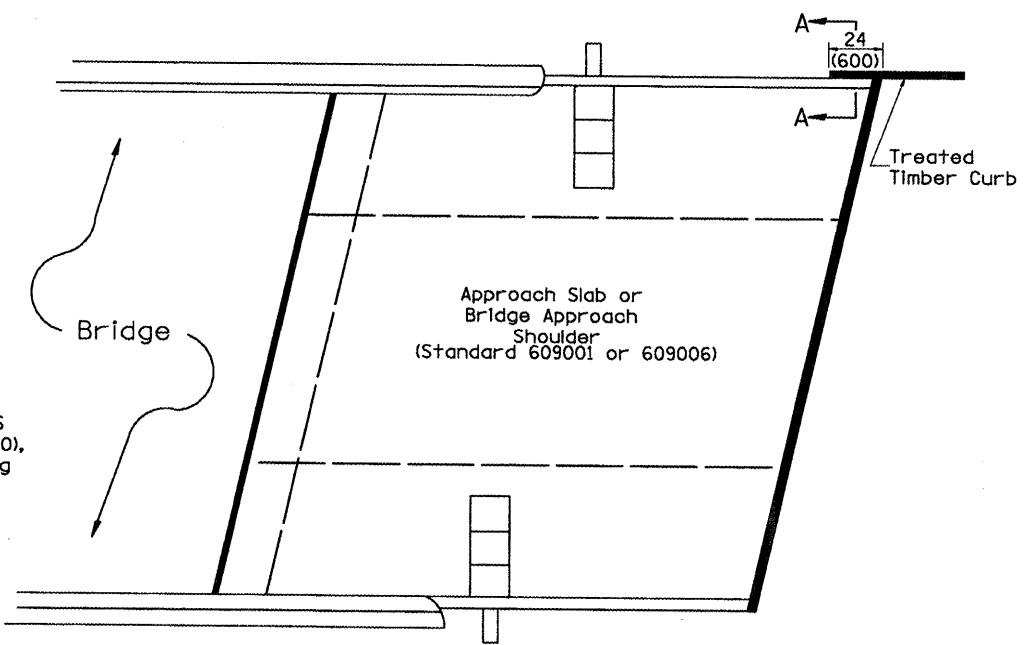
1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, 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.

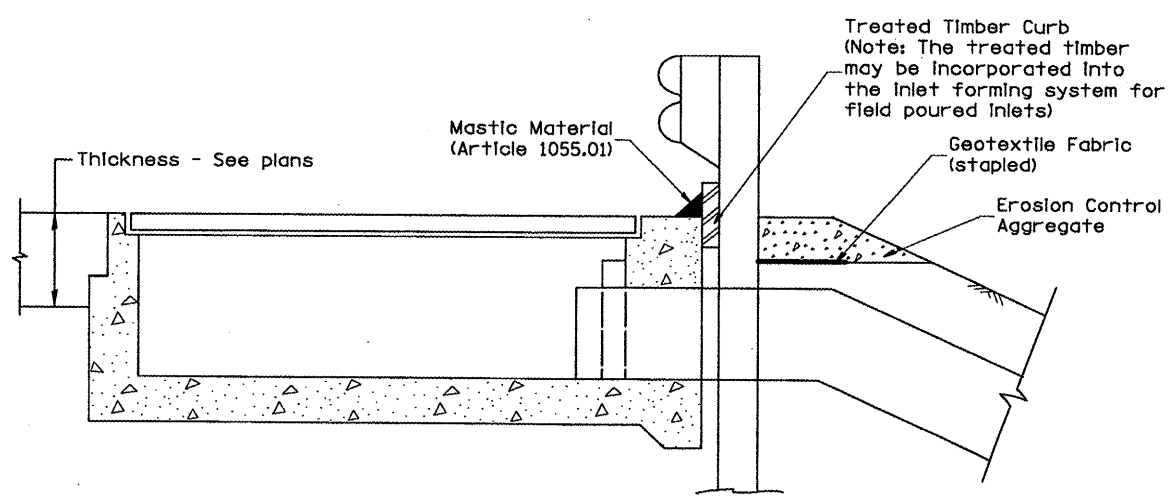
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THE UPCHURCH GROUP, INC.	PLOT SCALE = #SCALE#	3-1-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.		SCALE: NTS	SHEET NO. OF SHEETS	STA. TO STA.	CADD STD 630101-04	SHT 1 OF 2	CONTRACT NO. 88773		
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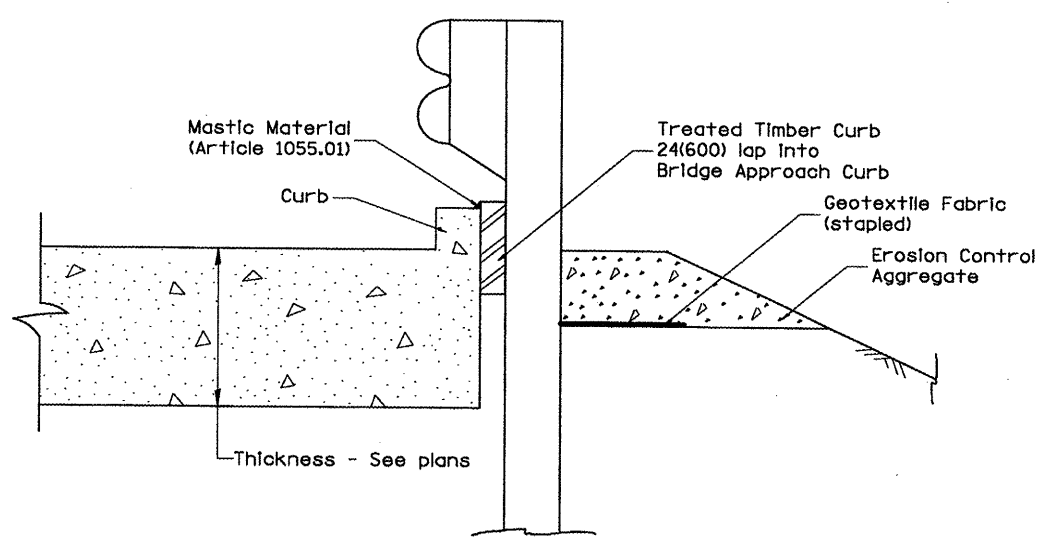
DETAIL A
(Typical Treated Timber Splices)



PLAN VIEW
APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)



TYPICAL SECTION WITH EROSION CONTROL CURB
AT INLETS TYPE E & F (STANDARD 610001)
AND INLET TYPE B (STANDARD 609001)



SECTION A-A
TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

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

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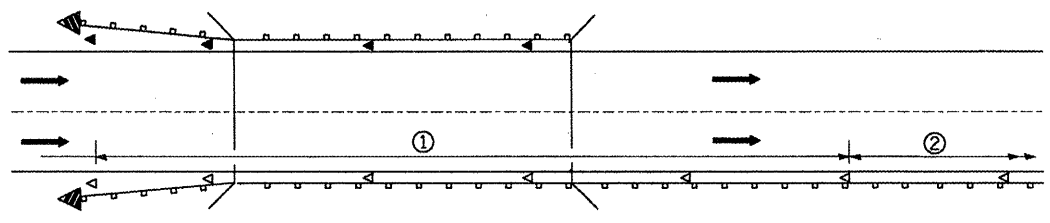
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS
COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	136.137W&RS-3;136R;109BR-2	Henderson	490	485
CADD STD 630101	SHT 2 OF 2	CONTRACT NO. 88773		
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT				

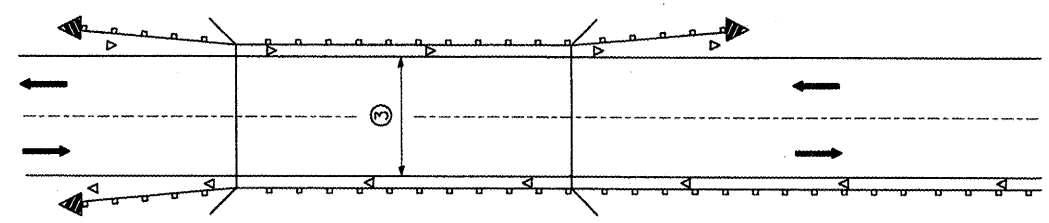
SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

DESIGNER NOTE:
 1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY; 1. TERMINAL MARKER, 2. TERMINAL MARK POST, AND 3. GUARDRAIL AND BARRIER WALL MARKERS."
 FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."
 2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. 720011.



- ① Spacing 80 ft. (24 m) max. for first 400 ft. (122 m) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).
- ② After 400 ft. (122 m), transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



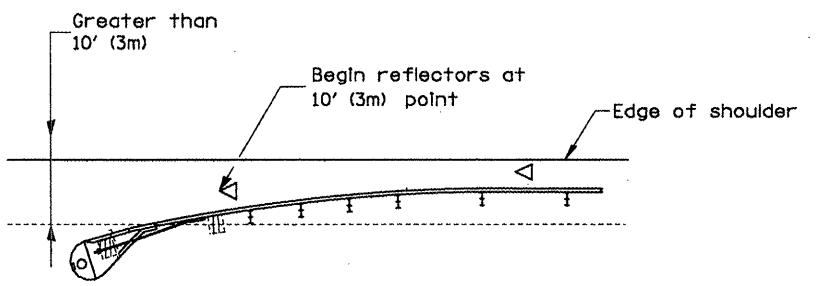
- ③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

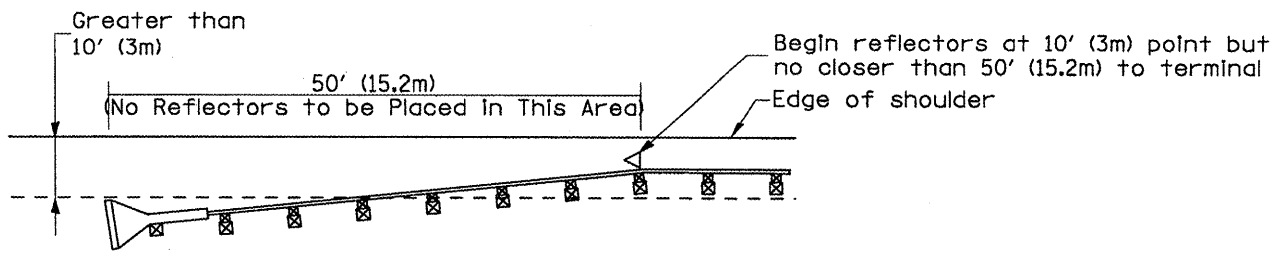
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ▴ Terminal Marker - Black/Yellow
Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 10' (3m) from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

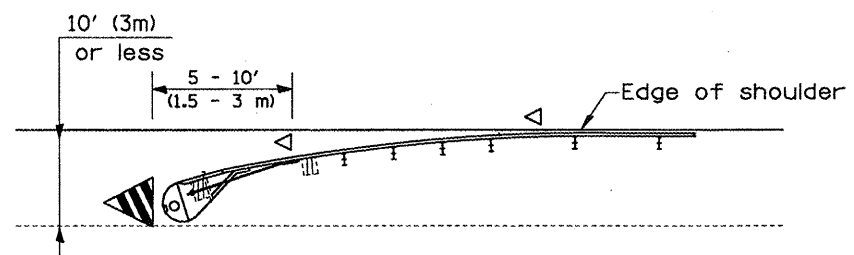
[Terminal over 10' (3m) from edge of shoulder]
*See Plans for Type



NOTE: Omit terminal marker when terminal over 10' from edge of paved shoulder or break point of unpaved shoulder.

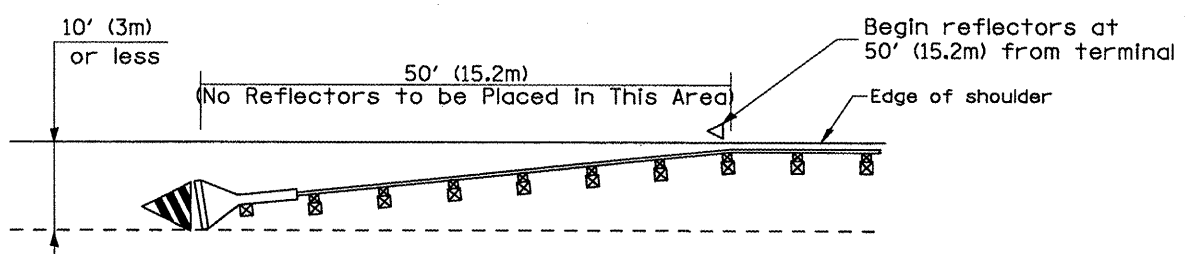
Traffic Barrier Terminal Type 1 (Special)

[Terminal over 10' (3m) from edge of shoulder]



Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 10' (3m) or less from edge of shoulder]
*See Plans for Type



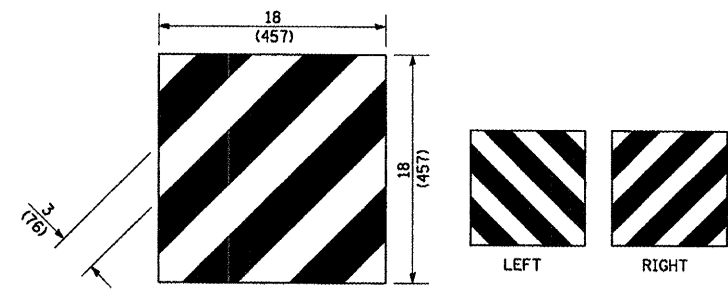
Traffic Barrier Terminal Type 1(Special)

[Terminal 10' (3m) or less from edge of shoulder]

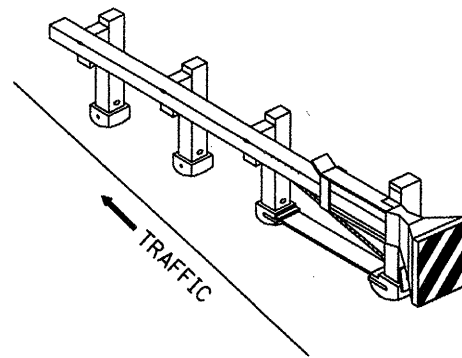
TERMINAL MARKER PLACEMENT

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

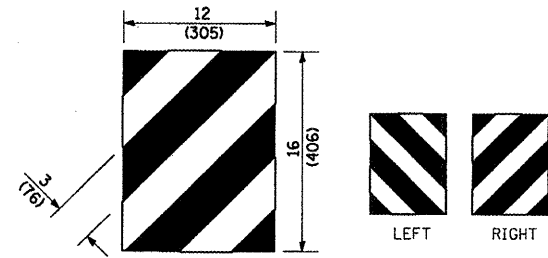
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THE UPCHURCH GROUP, INC.	PLOT SCALE = #SCALE#	3-1-97	CORRECT STD. SPEC. *	J.A.			SCALE: NTS	SHEET NO. OF SHEETS	STA. TO STA.	CADD STD 635101-04	SHT 1 OF 3	CONTRACT NO. 88773
	PLOT DATE = 2/19/2009 2:09:51 PM	10-16-06	REVISED TO 2007 SPEC.	M.A.						FED. ROAD DIST. NO. 4	ILLINOIS FED. AID PROJECT	



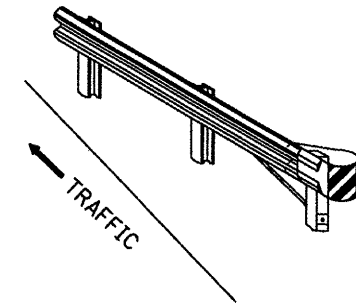
For Traffic Barrier Terminal Type 1 (Special)



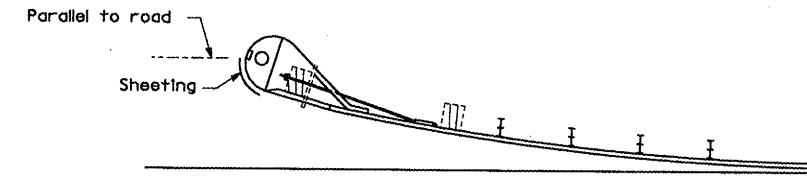
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



For Traffic Barrier Terminal Type (*)
and Post Mount
* See Plans for Type



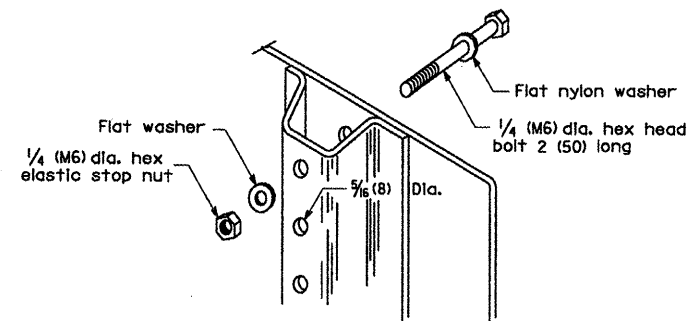
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (*)
* See Plans for Type



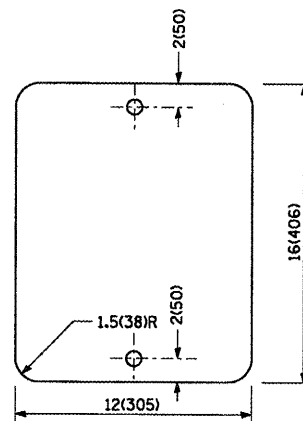
Sheeting Position for
Traffic Barrier Terminal Type (*)
* See Plans for Type

TERMINAL MARKER DETAILS

- Color: Black / Yellow reflectorized
- OM - I100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted

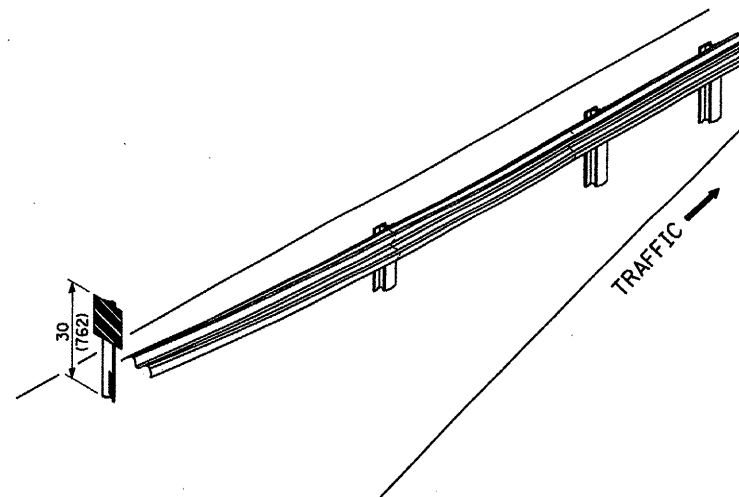


DETAIL OF MOUNTING TERMINAL MARKER TO POST



STANDARD TERMINAL MARKER

POST MOUNTED TERMINAL MARKER ASSEMBLY



ALTERNATE TREATMENT - POST MOUNTED
(For turned-down terminal where sheeting cannot be direct applied)

TERMINAL MARKER TREATMENTS

GENERAL NOTES

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

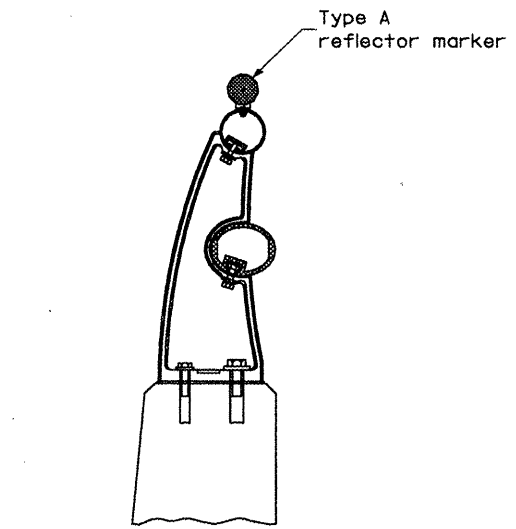
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

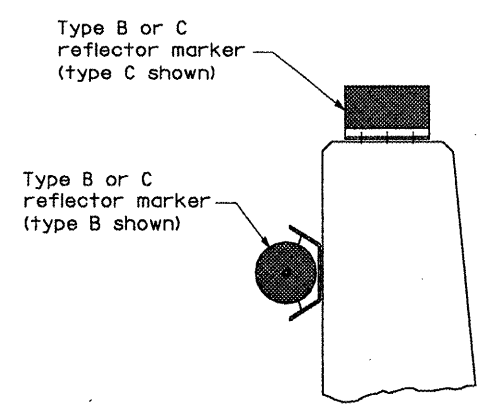
GUARDRAIL AND BARRIER WALL DELINEATION
COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	(136,137)W&RS-3;136R;109BR-2	Henderson	490	467
CADD STD 635101-04 SHY 2 OF 3			CONTRACT NO. 88773	
FED. ROAD DIST. NO. 4 [ILLINOIS] FED. AID PROJECT				

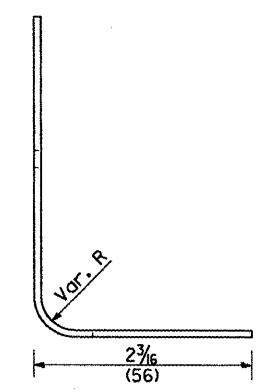
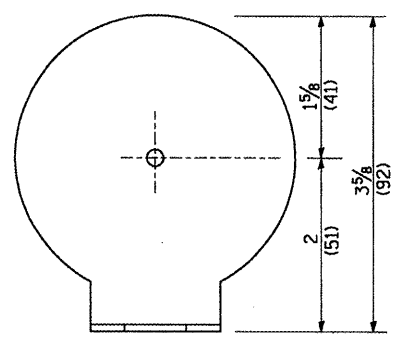
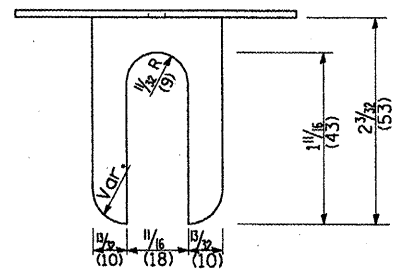


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR



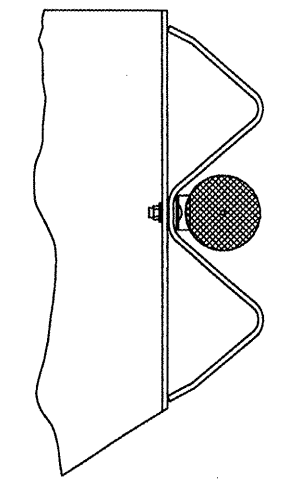
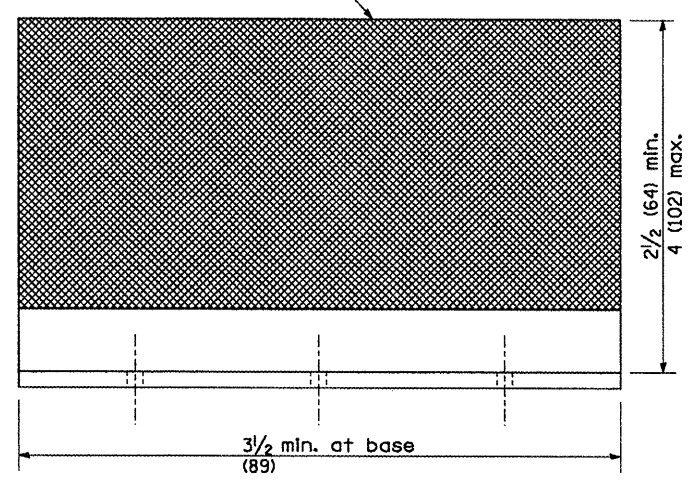
TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

REFLECTOR MOUNTING

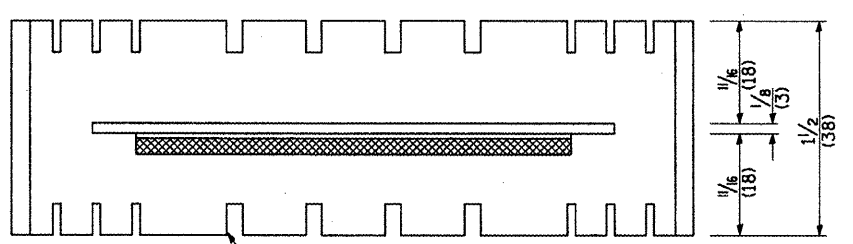


REFLECTOR MARKER TYPE A

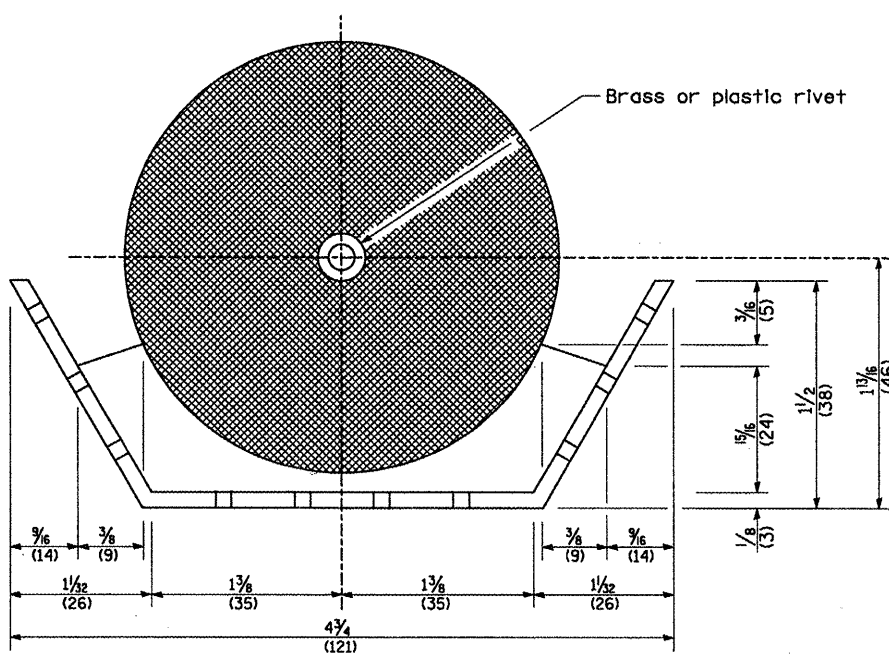
Min. reflective area 6 1/2 sq. in. (4,194 mm²) each side. May be rectangular or slight trapezoid.



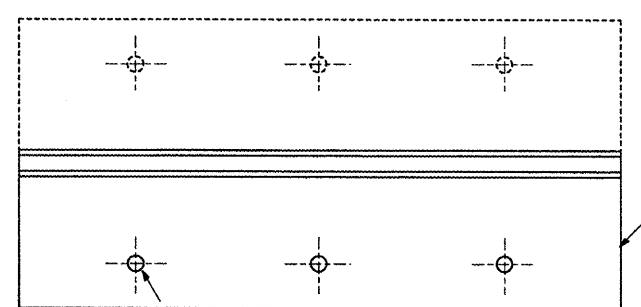
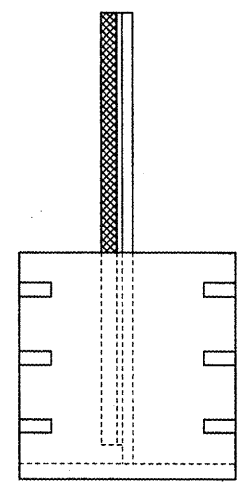
TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A



Adhesive weep slots or holes equally spaced on both sides

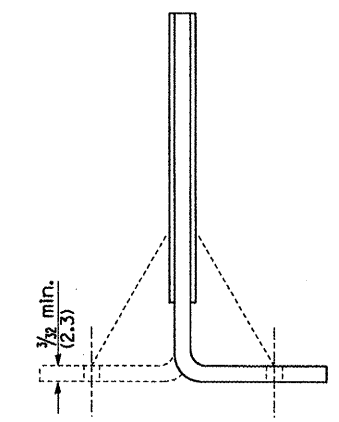


REFLECTOR MARKER TYPE B



3 min. adhesive weep holes or slots each side, variable spacing.

REFLECTOR MARKER TYPE C



Cross section may be "T" or "L" shaped and may have side supports at ends.

REFLECTORS

FILE NAME = ...D488773-shd-635101.dgn	USER NAME = _USER_	DATA	REVISED	BY
THE UPCHURCH GROUP, INC.	PLOT SCALE = #SCALE#			
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL AND BARRIER WALL DELINEATION
COUNTY ROAD 8 (1900 E) OVER BRANCH OF HONEY CREEK

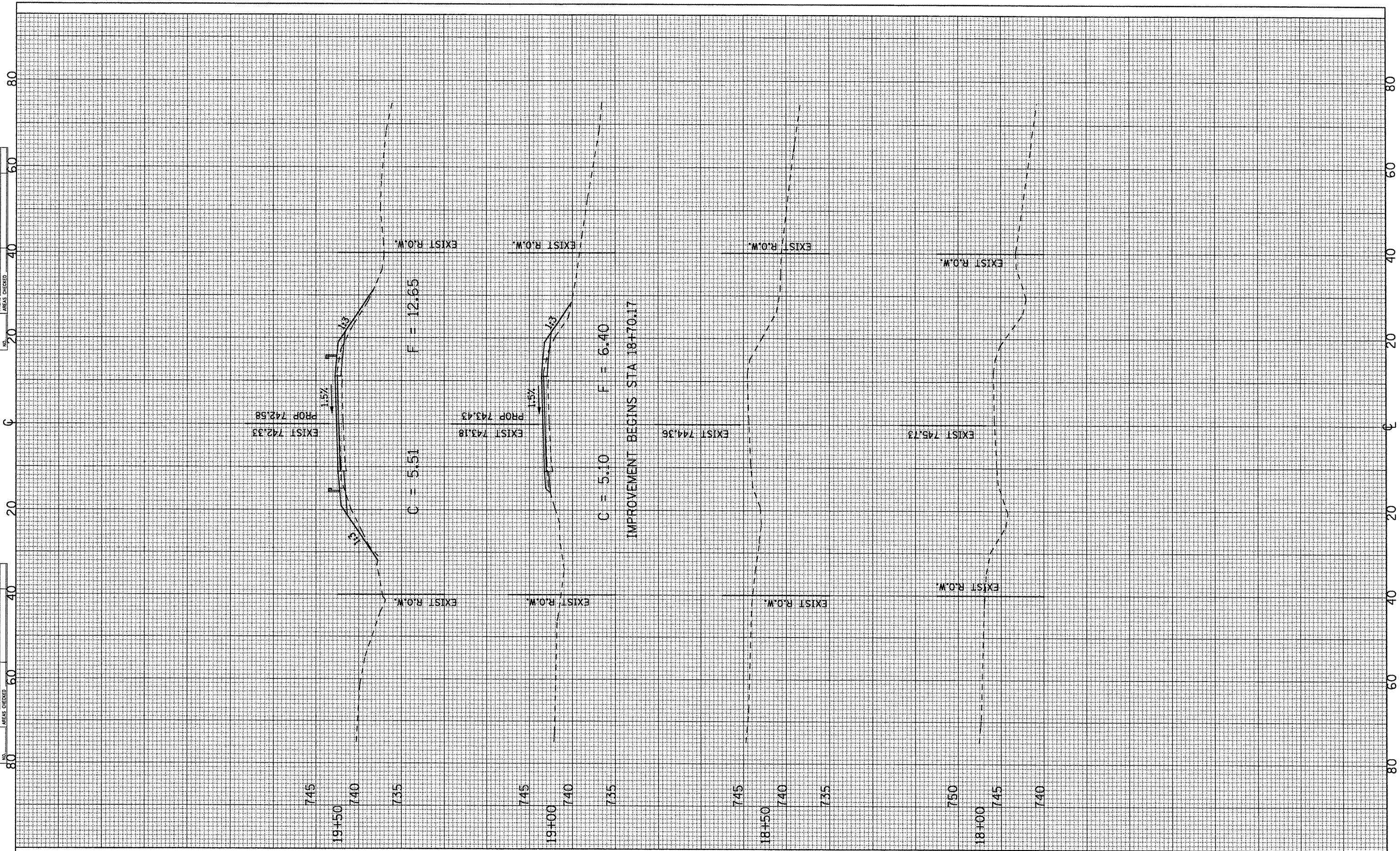
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	1136.137W&RS-3:136R:109BR-2	Henderson	490	408
CADO STD 635101-04	SHT 3 OF 3			CONTRACT NO. 88773
FED. ROAD DIST. NO. 4	ILLINOIS FED. AID PROJECT			

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

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

FINN	DATE
SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL	DATE
SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME = xsections2d.dgn
 FUHRMANN ENGINEERING, INC.

USER NAME = MAS
 PLOT SCALE = 1/4" = 10'
 PLOT DATE = 2/4/2009 9:08 A.M.

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

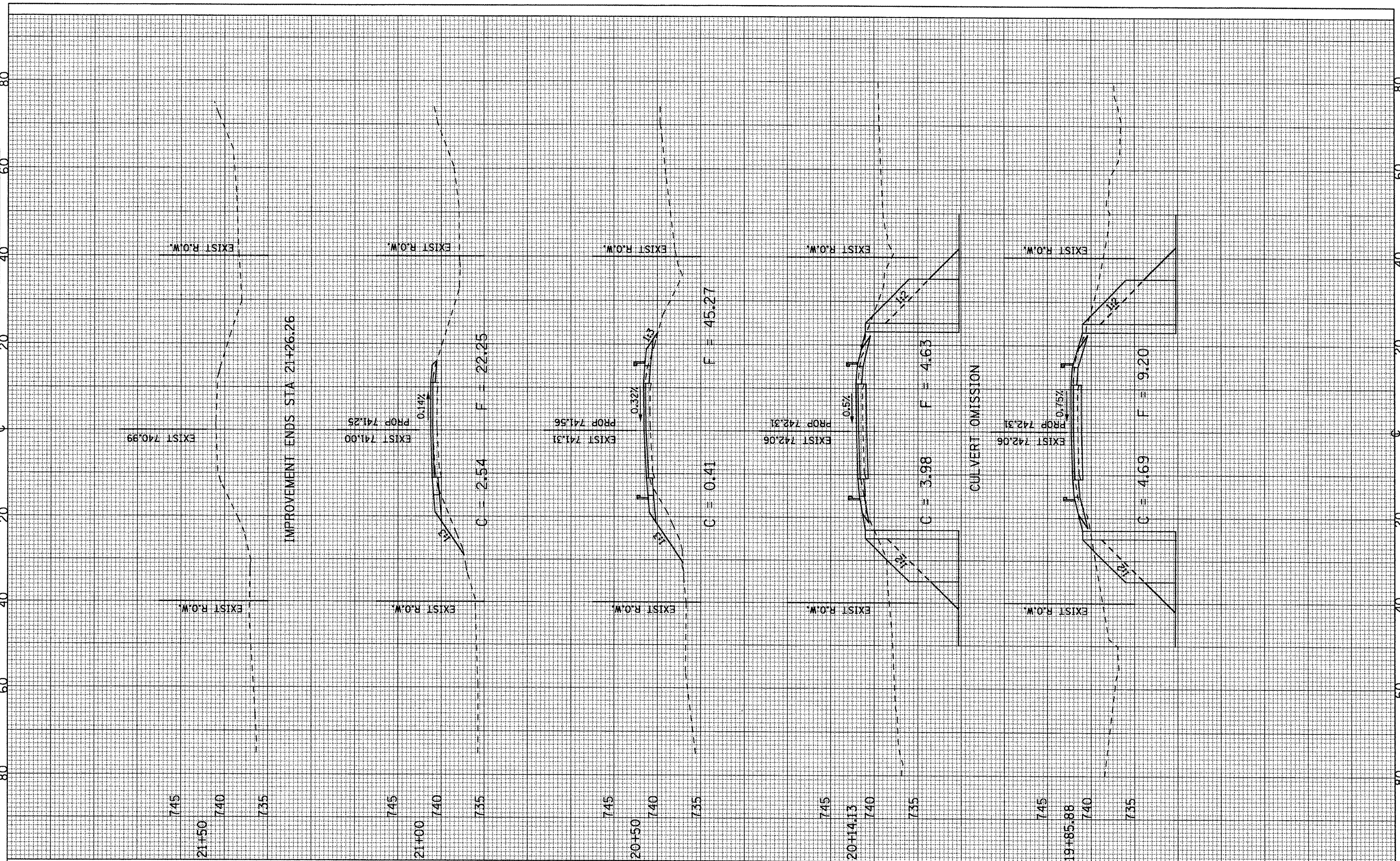
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 COUNTRY ROAD B (1900 E) OVER BRANCH OF HONEY CREEK
 SCALE: SHEET NO. 9 OF SHEETS STA. 18+00 TO STA. 19+50

F.A.P. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	1136.137W&RS-3;136R;1098R-2	Henderson	490	489
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 88773	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	REPLACED	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	REPLACED	
	AREAS CHECKED	



FILE NAME = xsections2d.dgn
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 FUHRMANN ENGINEERING, INC.

USER NAME = MAS
 PLOT SCALE = *SCALE*
 PLOT DATE = 2/4/2009 9:08 A.M.

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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 COUNTRY ROAD B (1900 E) OVER BRANCH OF HONEY CREEK**

SCALE: SHEET NO. 10 OF SHEETS STA. 19+84.88 TO STA. 21+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	1136.137/W&RS-3/136R1098R-2	Henderson	490	490
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 88773	