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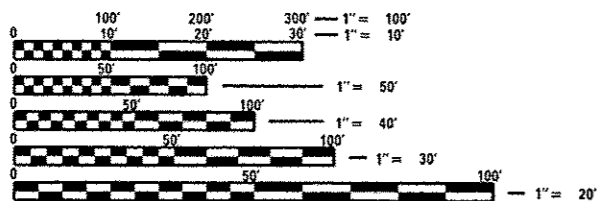
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAP ROUTE 796 (IL 115)
SECTION (106 BR-1 & BR-4)BR
PROJECT: ACBHF-0796(017)
BRIDGE SUPERSTRUCTURE REPLACEMENTS
FORD COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	1
		ILLINOIS	CONTRACT NO. 66980	

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

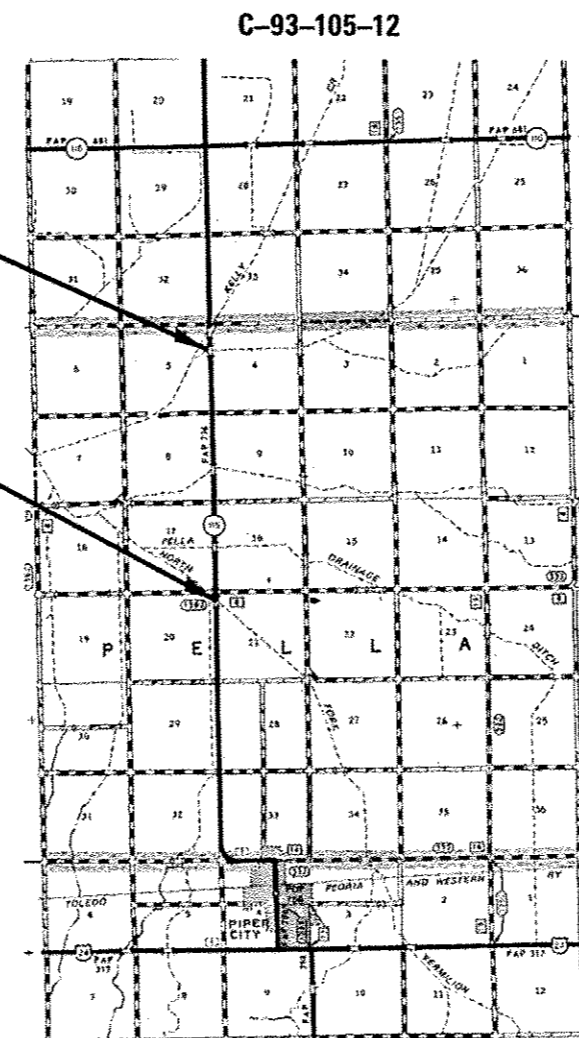
BLR 22-7	TYPICAL APP OF T.C.D. RURAL LOCAL HIGHWAY (2-LANE 2-WAY RURAL TRAF.) (ROAD CLOSED TO THRU TRAFFIC)
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-09	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-11	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701011-03	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS 45 MPH
701901-03	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



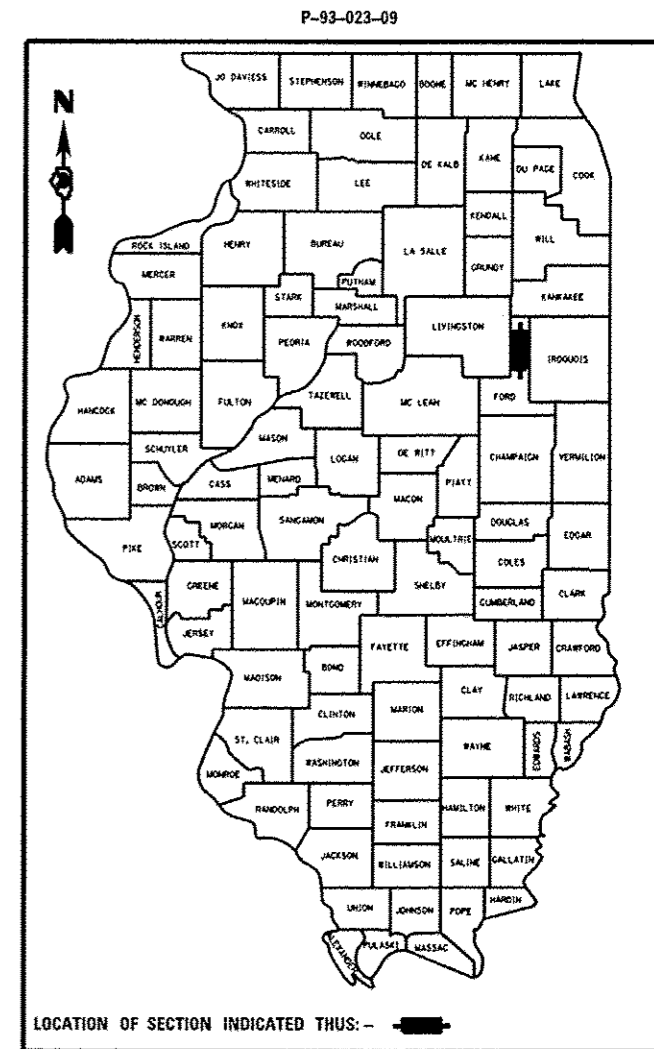
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JOE KANNEL
PROJECT MANAGER: PAT BRABOY
 DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66980



SN 027-0072 GROSS LENGTH = NET LENGTH = 0.13 MILE
 SN 027-0073 GROSS LENGTH = NET LENGTH = 0.14 MILE
PROJECT TOTAL GROSS LENGTH = NET LENGTH = 0.27 MILE



FUNCTIONAL CLASSIFICATION-
MINOR ARTERIAL (RURAL)
 2009 ADT = 550 VPD
 PV = 81.82% SU = 7.27% MU = 10.91%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *Paul A. Tushnet* 20 12
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

John D. Baromyelli P.E. 20 12
 acting ENGINEER OF DESIGN AND ENVIRONMENT

William R. Freiler 20 12
 acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

THE THICKNESS OF HMA 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 HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS, EXCEPTIONS WILL BE SHOWN ON THE PLANS.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE REMOVAL OF END SECTIONS SHALL BE INCLUDED IN THE COST OF PIPE CULVERT REMOVAL.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

SHORT TERM PAVEMENT MARKINGS SHALL BE USED FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

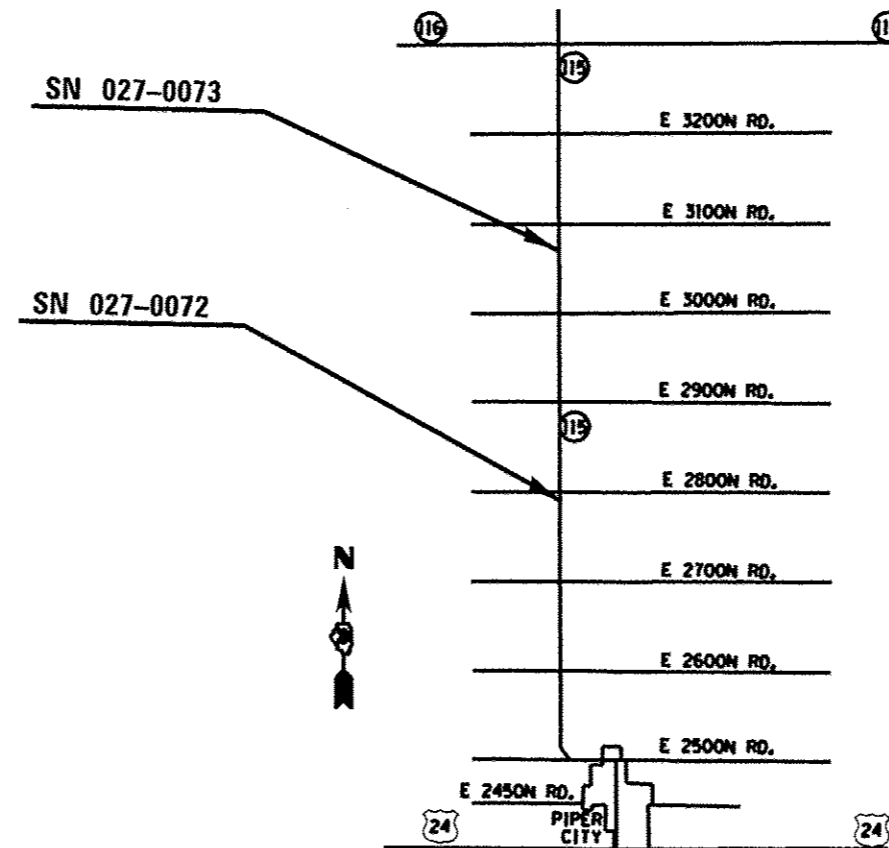
ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BIT MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375	GAL / SQ YD
BITUMINOUS MATERIALS (PRIME COAT)	0.08	GAL / SQ YD
FOG COAT (BETWEEN ADDITIONAL HMA LIFTS)	0.05	GAL / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

- COMMITMENTS:
- 1) ENVIRONMENTAL COORDINATION
 - 2) R.E. TO CONTACT PROPERTY OWNER IN S.E. QUADRANT OF S.N. 027-0073 2 WEEKS PRIOR TO CONSTRUCTION TO LOCATE EXISTING DRAINAGE TILE.
 - 3) DO NOT DISTURB DRAINAGE TILE IN THE S.E. QUADRANT OF S.N. 027-0073 AT THE LOCATION SHOWN ON THE PLANS.
 - 4) R.E. TO CONTACT EMERGENCY SERVICES TWO WEEKS PRIOR TO ROAD CLOSURE.
 - 5) R.E. TO PERFORM A VIDEO INSPECTION OF ROADS WITH TOWNSHIP COMMISSIONERS BEFORE AND AFTER DETOUR
 - 6) EXISTING STRUCTURAL STEEL SUPPORTS UNDER SN 027-0072 SHALL BE SALVAGED AND DELIVERED BY THE CONTRACTOR TO THE ASHKUM MAINTENANCE YARD
 - 7) IDNR/OWR STATEMENT PERMIT #12



LOCATION MAP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: [Signature]
DISTRICT STUDIES & PLANS ENGINEER

DATE: 11-2-12

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

FILE NAME *	USER NAME * USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND LOCATION MAP	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			796	1106 BR-1 & BR-4BR	FORD	78	2	
	PLOT SCALE * #SCALE#	CHECKED -	REVISED -			CONTRACT NO. 66980					
	PLOT DATE * #DATE#	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

80% FED. / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE	CONSTR. CODE
				ROADWAY	SN	SN
				0004 RURAL	027-0072 ROADWAY 0014 RURAL	027-0073 ROADWAY 0014 RURAL
20200100	EARTH EXCAVATION	CU YD	953	953		
20400800	FURNISHED EXCAVATION	CU YD	2071	2071		
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	200	200		
25000210	SEEDING, CLASS 2A	ACRE	1.6	1.6		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	141	141		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	141	141		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	141	141		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	7600	7600		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	314	314		
28000305	TEMPORARY DITCH CHECKS	FOOT	240	240		
28000400	PERIMETER EROSION BARRIER	FOOT	2135	2135		
28100107	STONE RIPRAP, CLASS A4	SO YD	1417		829	588
28200200	FILTER FABRIC	SO YD	1417		829	588
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	379	379		

FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY		F.A.P. RTE. 796	SECTION (106 BR-1 & BR-4BR)	COUNTY FORD	TOTAL SHEETS 78	SHEET NO. 3		
Default	PLOT SCALE * #SCALE#	CHECKED -	REVISED -				SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 66980			
	PLOT DATE * #DATE#	DATE -	REVISED -				ILLINOIS FED. AID PROJECT						

80% FED. / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE	CONSTR. CODE
				ROADWAY	SN	SN
				0004	027-0072	027-0073
				RURAL	ROADWAY 0014	ROADWAY 0014
40600300	AGGREGATE (PRIME COAT)	TON	6	6		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1		
40600525	LEVELING BINDER (HAND METHOD), N50	TON	1	1		
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	222	222		
40600990	TEMPORARY RAMP	SO YD	32	32		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	245	245		
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SO YD	85	85		
44000100	PAVEMENT REMOVAL	SO YD	405	405		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	42	42		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	1365	1365		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	2		1	1
50102400	CONCRETE REMOVAL	CU YD	27.4		5.4	22.0
50200100	STRUCTURE EXCAVATION	CU YD	138		70	68
50300225	CONCRETE STRUCTURES	CU YD	75.4		35.1	40.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	577.6		325.3	252.3

FILE NAME *	USER NAME * #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			796	(106 BR-1 & BR-4BR)	FORD	78	4	
#MODELNAME#		CHECKED -	REVISED -			CONTRACT NO. 66980					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

80% FED. / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE	CONSTR. CODE
				ROADWAY	SN	SN
				0004	027-0072	027-0073
				RURAL	RURAL	RURAL
50300260	BRIDGE DECK GROOVING	SQ YD	1007		554	453
50300300	PROTECTIVE COAT	SQ YD	1288		709	579
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	179330		113190	66140
51500100	NAME PLATES	EACH	2		1	1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	92		92	
54213453	END SECTIONS 18"	EACH	1	1		
54213471	END SECTIONS 36"	EACH	6	6		
542D1055	PIPE CULVERTS, CLASS D, TYPE 2 10"	FOOT	103	103		
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	50	50		
542D1081	PIPE CULVERTS, CLASS D, TYPE 2 36"	FOOT	299	299		
55100900	STORM SEWER REMOVAL 18"	FOOT	50	50		
55101600	STORM SEWER REMOVAL 36"	FOOT	255	255		
59000200	EPOXY CRACK INJECTION	FOOT	157		115	42
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	64		40	24

FILE NAME *	USER NAME * #USER*	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - _____	REVISED - _____					796	1106 BR-1 & BR-4BR	FORD	78	5
MODELNAME#		CHECKED - _____	REVISED - _____					CONTRACT NO. 66980				
	PLOT SCALE * #SCALE#	DATE - _____	REVISED - _____	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____			ILLINOIS FED. AID PROJECT					

80% FED. / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE		
				ROADWAY	SN	SN
				0004	027-0072	027-0073
				ROADWAY	ROADWAY	ROADWAY
				RURAL	0014	0014
					RURAL	RURAL
60801010	FLAP GATE 10"	EACH	1	1		
60801018	FLAP GATE 18"	EACH	1	1		
60801036	FLAP GATE 36"	EACH	6	6		
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	1	1		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	441	441		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	8		
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	7	7		
63200310	GUARDRAIL REMOVAL	FOOT	1361	1361		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	15	15		

* specialty items

80% FED. / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE	CONSTR. CODE
				ROADWAY	SN	SN
				ROADWAY	027-0072	027-0073
				0004	ROADWAY	ROADWAY
				RURAL	0014	0014
					RURAL	RURAL
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5		
67100100	MOBILIZATION	L SUM	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	426	426		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2840	2840		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	355	355		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	47	47		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5680	5680		
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	710	710		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	18	18		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	11	11		
* 78200510	BARRIER WALL MARKERS, TYPE A	EACH	8	8		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	7	7		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18		

*Specialty Items

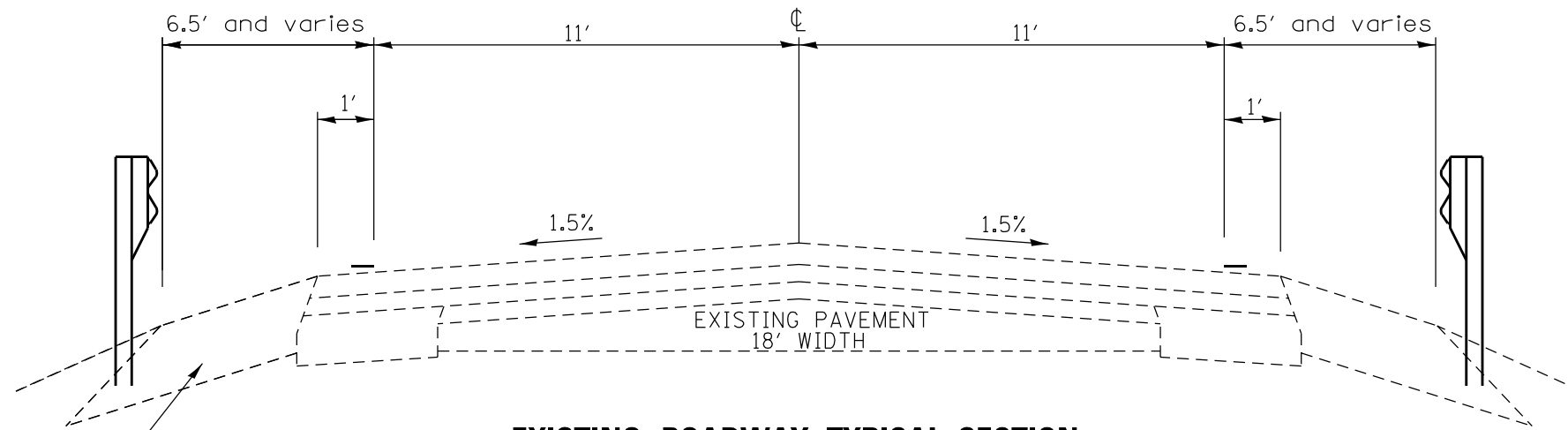
FILE NAME *	USER NAME * #USER*	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - _____	REVISED - _____				796	(106 BR-1 & BR-4)BR	FORD	78	7
MODEL NAME#	PLOT SCALE * #SCALE#	CHECKED - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 66980		ILLINOIS FED. AID PROJECT		
	PLOT DATE * #DATE#	DATE - _____	REVISED - _____								

80% FED. / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	CONSTR. CODE	CONSTR. CODE
				ROADWAY	SN	SN
				0004	027-0072	027-0073
				RURAL	ROADWAY	ROADWAY
					0014	0014
					RURAL	RURAL
X0324079	EXISTING FIELD TILE REMOVAL	FOOT	200	200		
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	112		62	50
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	1059	1059		
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1		
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	18		18	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SO FT	9		7	2
Z0023000	FIELD TILE INSPECTION STRUCTURE	EACH	1	1		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	261		146	115

* SPECIALTY ITEMS

FILE NAME *	USER NAME * #USER#	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE * #SCALE#	DRAWN - _____	REVISED - _____				796	(106 BR-1 & BR-4)BR	FORD	78	8	
#MODELNAME#	PLOT DATE * #DATE#	CHECKED - _____	REVISED - _____		SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 66980				
		DATE - _____	REVISED - _____		ILLINOIS FED. AID PROJECT							



EXISTING ROADWAY TYPICAL SECTION

027-0072

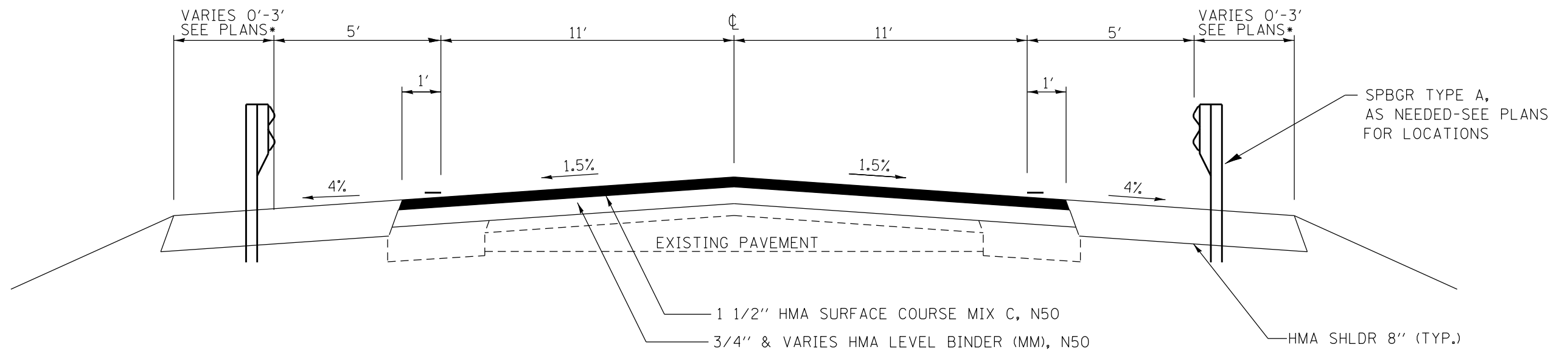
STA 1738 + 25 TO STA 1740 + 50

STA 1742 + 29 TO STA 1745 + 00

027-0073

STA 1590 + 50 TO STA 1593 + 20

STA 1594 + 69 TO STA 1597 + 95



PROPOSED ROADWAY TYPICAL SECTION

027-0072

STA 1738 + 25 TO STA 1740 + 50

STA 1742 + 29 TO STA 1745 + 00

027-0073

STA 1590 + 50 TO STA 1593 + 20

STA 1594 + 69 TO STA 1597 + 95

*GREATER THAN 3' NEAR THE TBT, TI (SPEC) END SECTION-SEE STD 630201

	HMA Surface	HMA Leveling Binder	HMA Shoulders
PG Grade	PG64-22	PG64-22	PG64-22
Design Air Voids	4.0% @ N50	4.0% @ N50	4.0% @ N50
Mixture Composition	IL 9.5	IL 9.5	IL 19.0
Friction Aggregate	Mixture C		
Density Test Method	Cores	Cores	Cores

MAINLINE SCHEDULE											
STA. TO STA.	LENGTH	AREA	HMA SURF CSE MIX C N50	LEVEL BINDER (MM)	LEVEL BINDER (HM)	MIX FOR JTS, CRACKS & FLGWYS	BIT. MAT'L (PR CT)	AGG. (PR CT)	AGG SHLD TY B (1)	TEMP RAMP	
FORD COUNTY	FT	SO YD	TONS	TONS	TONS	TONS	GAL	TONS	TONS	SO YD	
SN 027-0072											
1738+25	1740+50	225	600	50.4	25.2	0.3	0.2	78.0	1.2	10.0	8.0
1742+29	1745+00	271	723	60.7	30.4	0.4	0.2	93.9	1.4	10.0	8.0
SUBTOTAL		496	1,323	111	56	1	0	172	3	20	16
SN 027-0073											
1590+50	1593+20	270	720	60.5	80.2	0.4	0.2	93.6	1.4	11.0	8.0
1594+69	1597+95	326	869	73.0	86.5	0.4	0.3	113.0	1.7	11.0	8.0
SUBTOTAL		596	1,589	134	167	1	0	207	3	22	16
GRAND TOTALS				245	222	1	1	379	6	42	32

(1) AGGREGATE SHOULDER QUANTITY WILL ONLY BE PLACED BEHIND THE APPROACH PAVEMENTS ON THIS PROJECT

GUARDRAIL								
		TERM	TBT TY I	SPBGR TY A	TBT TY	GR		GR
	NBL/SBL	MRK, DA	SP (FLARED)	6' POSTS (FOOT)	6 (EACH)	MKR	HMA SHLDS 8"	REMOVAL
STA TO STA		EA	EA	FT	EA	EA	SO YD	FOOT
SN # 027-0072								
N.E. QUADRANT OF STRUCTURE	NBI	1	1	9	1	1	151	160
N.W. QUADRANT OF STRUCTURE	SBI	1	1	35	1	1	149	258
S.E. QUADRANT OF STRUCTURE	NBI	1	1	34	1	1	170	152
S.W. QUADRANT OF STRUCTURE	SBI			276	1	3	213	242
SN # 027-0072 SUBTOTAL		3	3	354	4	6	683	812
SN # 027-0073								
N.E. QUADRANT OF STRUCTURE	NBI	1	1	9	1	1	144	130
N.W. QUADRANT OF STRUCTURE	SBI	1	1	35	1	1	153	164
S.E. QUADRANT OF STRUCTURE	NBI	1	1	34	1	1	197	127
S.W. QUADRANT OF STRUCTURE	SBI	1	1	9	1	1	188	128
SN # 027-0073 SUBTOTAL		4	4	87	4	5	682	549
GRAND TOTAL		7	7	441	8	11	1365	1361

EARTH EXCAVATION SCHEDULE					
(1)	(2)	(3)	(4)	(5)	
STA TO STA	EARTH EX	EARTH EX ADJ FOR SHRINKAGE	EMBANK	EARTHWORK BAL WASTE(+) OR SHORTAGE(-)	
	LANE	CU YD	CU YD	CU YD	CU YD
SN 027-0072					
	SB/NB	489	367	1003	-636
SN 027-0073					
	SB/NB	464	348	1783	-1435
GRAND TOTALS		953	715	2786	-2071

BARRIER WALL MARKERS			
	BARRIER WALL MARKERS TYPE A	NORTHBOUND	SOUTHBOUND
LOCATION	EACH	EACH	EACH
SN 072-0072	4	2	2
SN 072-0073	4	2	2
GRAND TOTAL	8	4	4

COLUMNS 2, AND 4-LOCATION AND QUANTITIES FROM CROSS SECTIONS
 COLUMN 3- QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25% (1- SHRINKAGE FACTOR)
 COLUMN 5 EARTHWORK REQUIRED (PAY FOR AS FUNISHED EXCAVATION)

NOTE ALL MATERIAL EXCAVATED ON THIS PROJECT MUST BE USED AS FILL. NO MATERIAL WILL BE ALLOWED TO BE REMOVED FROM THE JOB SITE

- EARTH EX QUANTITY FROM GUARDRAIL SCHEDULE
- THE EARTHWORK QUANTITIES PROVIDED AT THESE LOCATIONS ARE FOR THE DITCH. REFER TO DETAIL
- THE EARTHWORK QUANTITIES PROVIDED ARE FOR THE EXCAVATION IN FRONT OF THE BOX CULVERT

NO EXCAVATED MATERIAL IS ALLOWED TO BE REMOVED FROM THE PROJECT

SEEDING SCHEDULE									
LOCATION	LANE	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	HEAVY DUTY EROSION CONTROL BLANKET	TEMP DITCH CHECKS	PERIMETER EROSION BARRIER*	TEMP EROSION CONTROL SEEDING
STA TO STA		ACRE	POUND	POUND	POUND	S.Y.	FOOT	FOOT	POUND
S.N. 027-0072 (N.E. QUADRANT)	NB	0.24	22	22	22	1162	30	309	48
S.N. 027-0072 (N.W. QUADRANT)	SB	0.19	17	17	17	920	30	191	38
S.N. 027-0072 (S.E. QUADRANT)	NB	0.17	15	15	15	823	30	214	34
S.N. 027-0072 (S.W. QUADRANT)	SB	0.06	5	5	5	290	30	354	12
S.N. 027-0072 SUBTOTAL		0.66	59	59	59	3195	120	1068	132
S.N. 027-0073 (N.E. QUADRANT)	NB	0.19	17	17	17	920	30	236	38
S.N. 027-0073 (N.W. QUADRANT)	SB	0.22	20	20	20	1065	30	247	44
S.N. 027-0073 (S.E. QUADRANT)	NB	0.23	21	21	21	1113	30	295	46
S.N. 027-0073 (S.W. QUADRANT)	SB	0.27	24	24	24	1307	30	289	54
S.N. 027-0073 SUBTOTAL		0.91	82	82	82	4405	120	1067	182
GRAND TOTAL		1.6	141	141	141	7600	240	2135	314

*PLACE ALONG CREEK, SOUTH SIDE AND NORTH SIDE

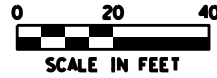
DRAINAGE SCHEDULE														
LOCATION	PIPE CULVERT, CLASS D, TYPE 2, 36"	PIPE CULVERT, CLASS D, TYPE 2, 18"	PIPE CULVERT, CLASS D, TYPE 2, 10"	END SECTIONS 36"	END SECTIONS 18"	STORM SEWER REMOVAL 18"	STORM SEWER REMOVAL 36"	EXPLORATION TRENCH 52" DEPTH	10" FLAP GATE	18" FLAP GATE	36" FLAP GATE	FIELD TILE JUNCTION VAULT 2'	FIELD TILE INSPECTION STRUCTURE	EXISTING FIELD TILE REMOVAL
STA TO STA	FOOT	FOOT	FOOT	EACH	EACH	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT
SN 027-0072														
STA 1740+80 LT TO 1741+50 LT	70			1							1			
STA 1740+23.32 RT TO STA 1740+73.32 RT		50			1					1				
STA 1742+68.61 LT TO STA 1742+11.63 LT	57			1		50	95	100			1			
SN 027-0072 SUBTOTAL	127	50		2	1	50	95	100		1	2	0		0
SN 027-0073														
STA 1593+32 RT TO STA 1593+73.98 RT	42			1							1			
STA 1593+32 LT TO STA 1593+68.78 LT	37			1							1			
STA 1594+67 RT TO STA 1594+22.13 RT	45			1							1			
STA 1594+65 LT TO STA 1594+17.04 LT	48			1							1			
REMOVE DRAIN TILE STA 1594+17.33 TO STA 1595+17.33,-29.5' LT							160	100						100
NEW DRAIN TILE STA 1595+17.33M,-29.66' LT, STA 1594+67.5,-45.85 LT, STA 1594+16.66,-45.50' LT			103						1			1	1	
SN 027-0073 SUBTOTAL	172	0	103	4		0	160	100	1	0	4	1	1	100 200
TOTAL	299	50	103	6	1	50	255	200	1	1	6	1	1	200

PAVEMENT MARKING SCHEDULE										
LOCATION		DISTANCE	PAINT PVT MK 4"	PAINT PVT MK 6"	TEMP MARK 4"	TEMP MARK 6"	SHORT-TERM MARK	WORK ZONE PAVT MARK REM	RAISED REFLECTIVE PVMT MARKERS	REMOVAL RAISED REFLECTIVE PVT MARKERS
STA		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SO. FT.	EACH	EACH
027-0072										
1738+25	TO 1745+00	675	1350	169	1350	169	203	22	8	8
(2) DOUBLE APPLICATION			1350	169						
027-0072 SUBTOTAL			2700	338	1350	169	203	22	8	8
027-0073										
1590+50	TO 1597+95	745	1490	186	1490	186	224	25	9	9
(2) DOUBLE APPLICATION			1490	186						
027-0073 SUBTOTAL			2980	373	1490	186	224	25	9	9
GRAND TOTAL		1420	5680	710	2840	355	426	47	18	18

(1) R.E. TO VERIFY NO PASSING ZONES PRIOR TO MILLING OPERATION
(2) PAINT MUST BE DONE IN A DOUBLE APPLICATION

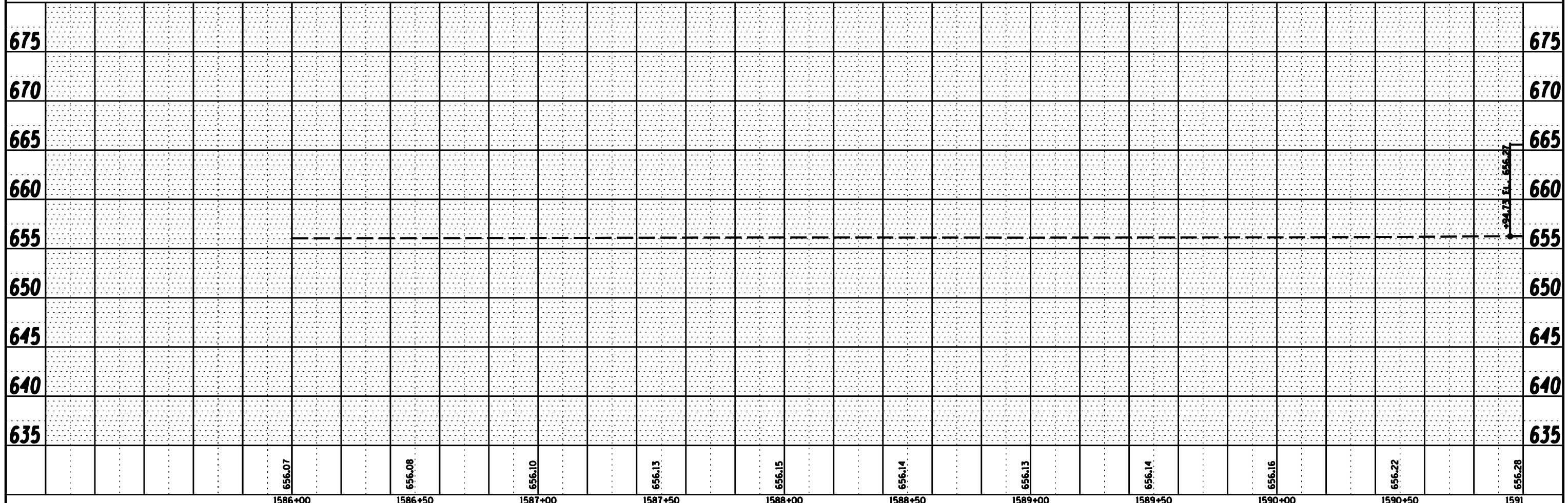
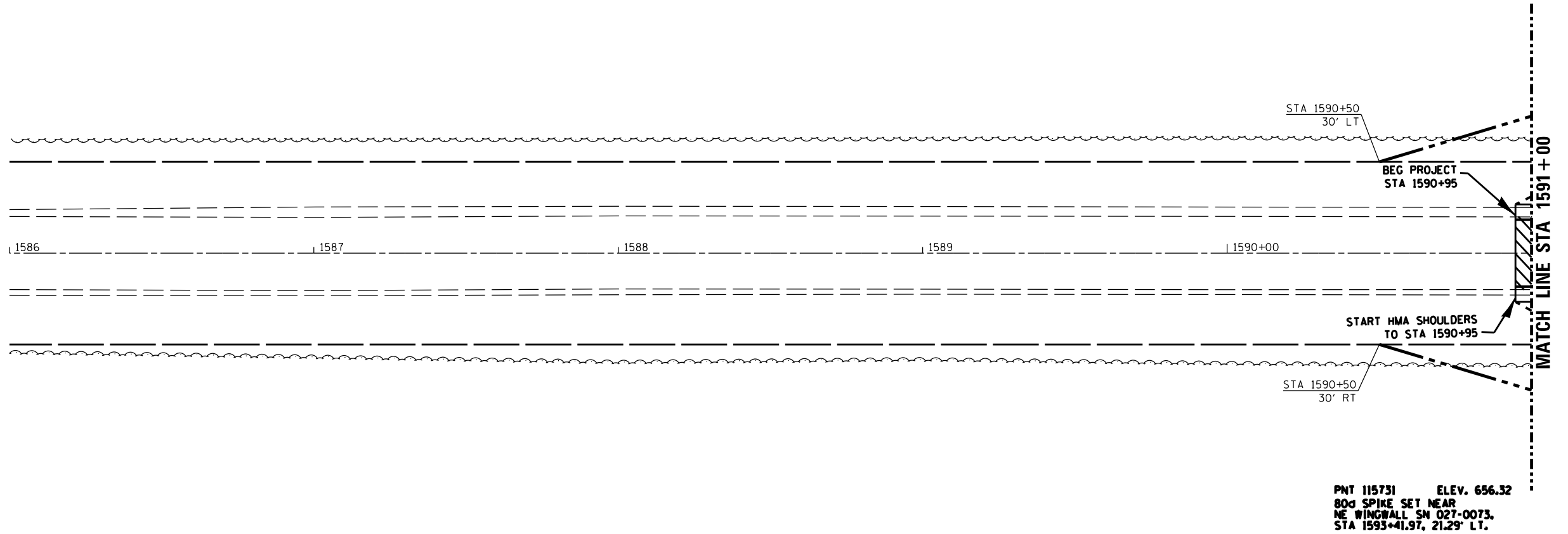
PAVEMENT REMOVAL AND BR APPR PVT CONN SCHEDULE					
STA. TO STA.	LENGTH	AREA	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	HMA SURFACE REMOVAL VARIABLE DEPTH	PAVEMENT REMOVAL
FORD COUNTY	FT	SO YD	SO YD	SO YD	SO YD
SN 027-0072					
1738+25	1739+15	90		240	
1744+10	1745+00	90		240	
1740+52	1740+58	6	21.3		
1740+58	1740+88	30			101.3
1742+20	1742+26	6	21.3		
1741+90	1742+20	30			101.3
SUBTOTAL		180	480	480	202.7
SN 027-0073					
1590+95	1592+15	120		320	
1596+98	1597+95	97		259	
1593+20	1593+26	6	21.3		
1593+26	1593+56	30			101.3
1594+33	1594+39	6	21.3		
1594+39	1594+69	30			101.3
SUBTOTAL		217	579	579	202.7
GRAND TOTALS			85	1059	405

R.O.W. MARKERS	
LOCATION	FURNISH AND ERECT ROW MARKERS
027-0072	EACH
STA 1738+18 85' RT	1
STA 1738+22 85' LT	1
STA 1738+88.68 60' RT	1
STA 1738+91.49 60' LT	1
STA 1740+78.60 60' RT	1
STA 1744+00 60' LT	1
STA 1745+00 30.92' LT	1
027-0073	
STA 1590+50 30' RT	1
STA 1590+50 30' LT	1
STA 1591+50 60' RT	1
STA 1591+50 60' LT	1
STA 1597+00 60' RT	1
STA 1597+00 60' LT	1
STA 1598+00 30' RT	1
STA 1598+00 30' LT	1
GRAND TOTAL	15



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

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	CHECKED		
	GRADES		
	STRUCTURE		
	NOTATION		



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 DATE = *DATE*
 TIME = *TIME*
 SCALE = *SCALE*

FILE NAME =
 FILES

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

DESIGNED -	REVISED -
DRAWN - RJT	REVISED -
CHECKED - ELH	REVISED -
DATE - 06/28/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

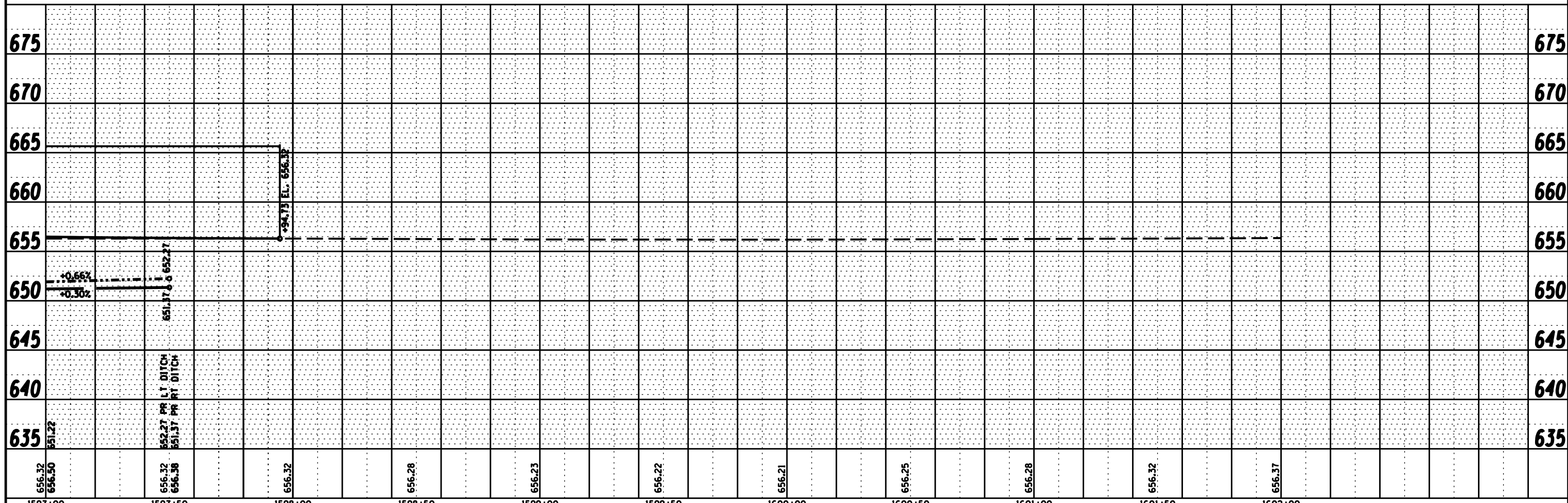
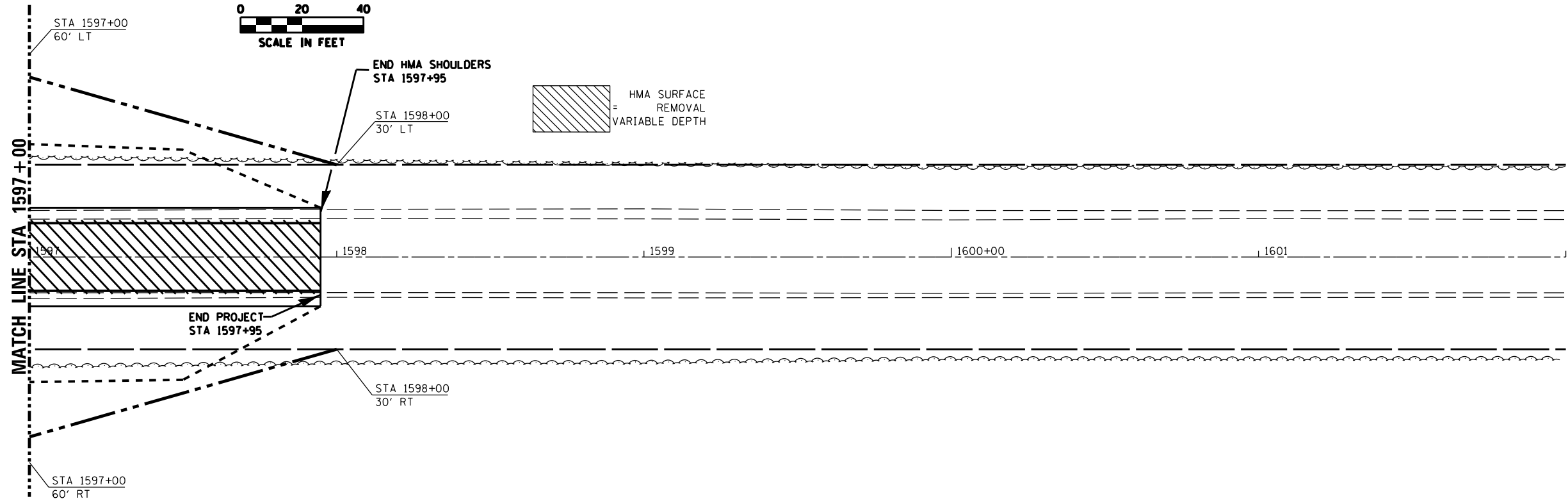
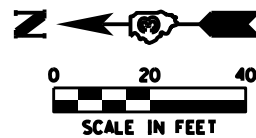
ILLINOIS ROUTE 115 PLAN & PROFILE SN 027-0073

SCALE: AS SHOWN SHEET NO. 1 OF 3 SHEETS STA. 1586+00 TO STA. 1591+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1BR)	FORD	78	13
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 66980	

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

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

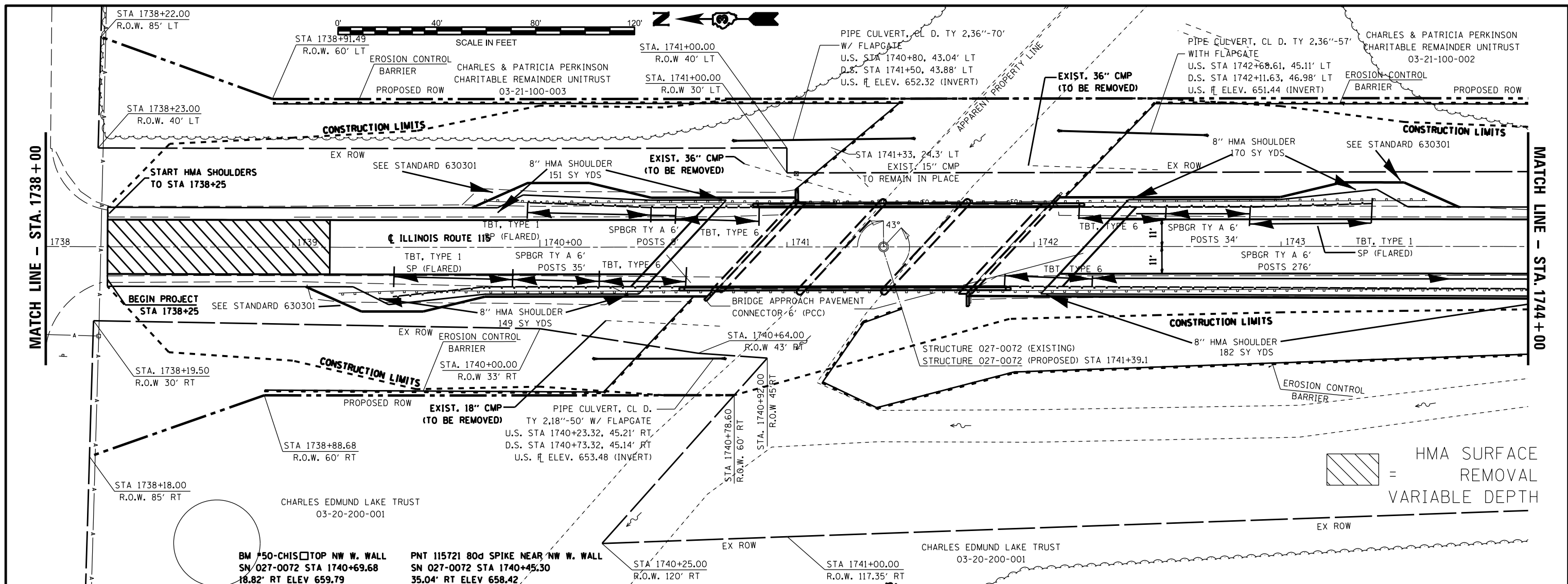


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 SCALE: *SCALE*

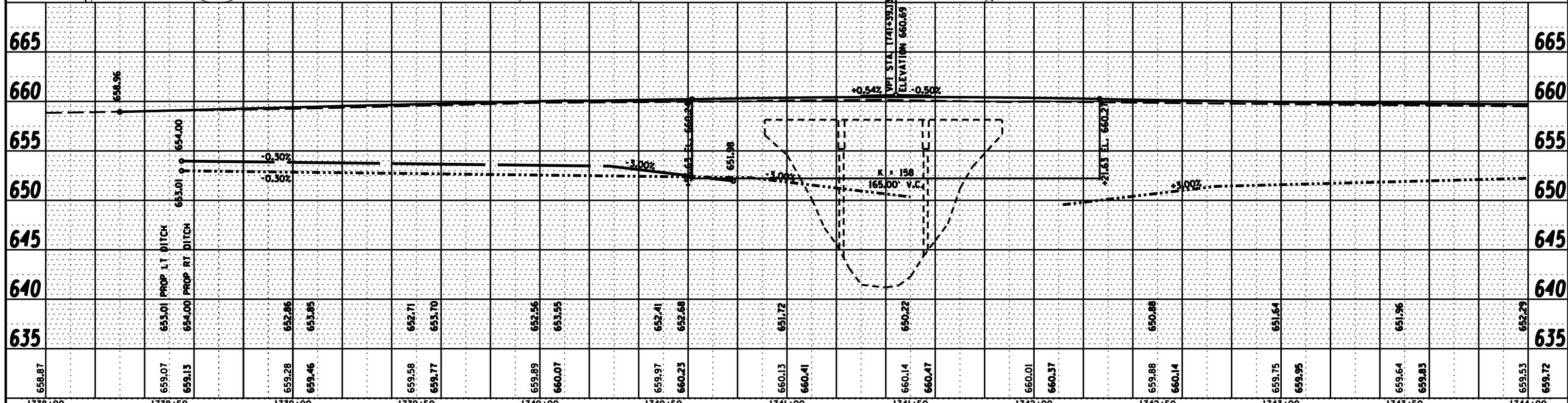
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FILES		DRAWN - RJT	REVISED -					796	(106 BR-1BR)	FORD	78	15	
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PLOT DATE = *DATE*		DATE - 06/28/10	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: HORIZ 1"=20' (VERT) 1"=5'				SCALE: AS SHOWN				SHEET NO. 3 OF 3 SHEETS		STA. 1597+00 TO STA. 1602+00			

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

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



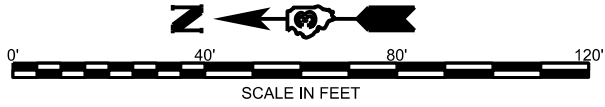
= HMA SURFACE REMOVAL VARIABLE DEPTH



FILE NAME =	USER NAME = *USER*	DESIGNED - JMS 7/07/09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 115 PLAN AND PROFILE SN 027-0072	F.A.P. RTE. 796	SECTION 10618R-418R	COUNTY FORD	TOTAL SHEETS 78	SHEET NO. 17	
FILES	PLOT SCALE = *SCALE*	DRAWN - JPC 7/07/09	REVISED -			SCALE: AS SHOWN	SHEET NO. 2 OF 3 SHEETS	STA. 1738+00 TO STA. 1744+00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CONTRACT NO. 66980	
	PLOT DATE = *DATE*	CHECKED - ELH 7/07/09	REVISED -								
SCALE: (HORIZ) 1"=20' (VERT) 1"=5'		DATE - 7/07/09	REVISED -								

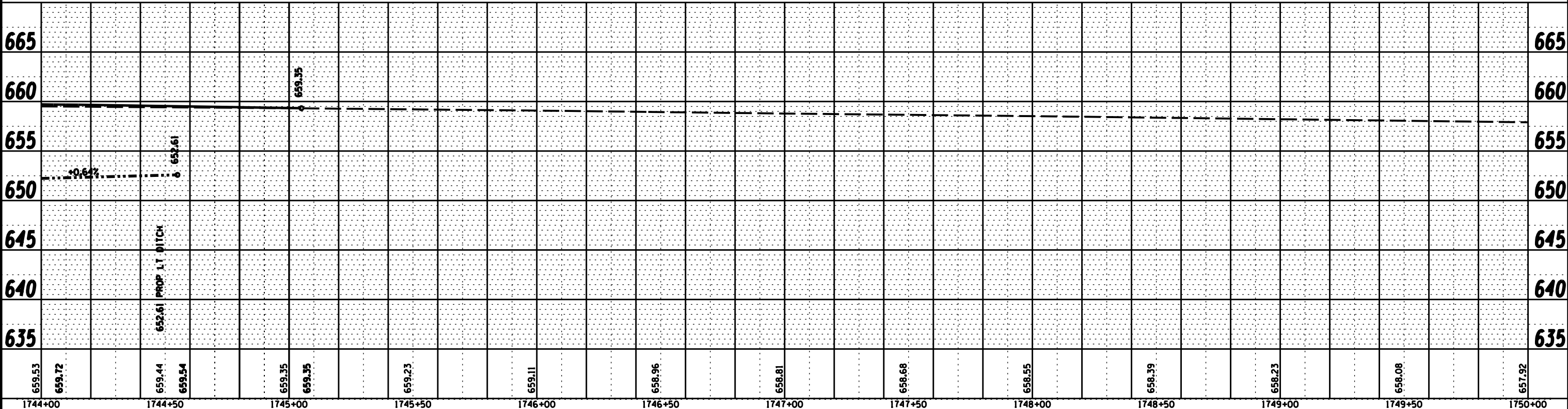
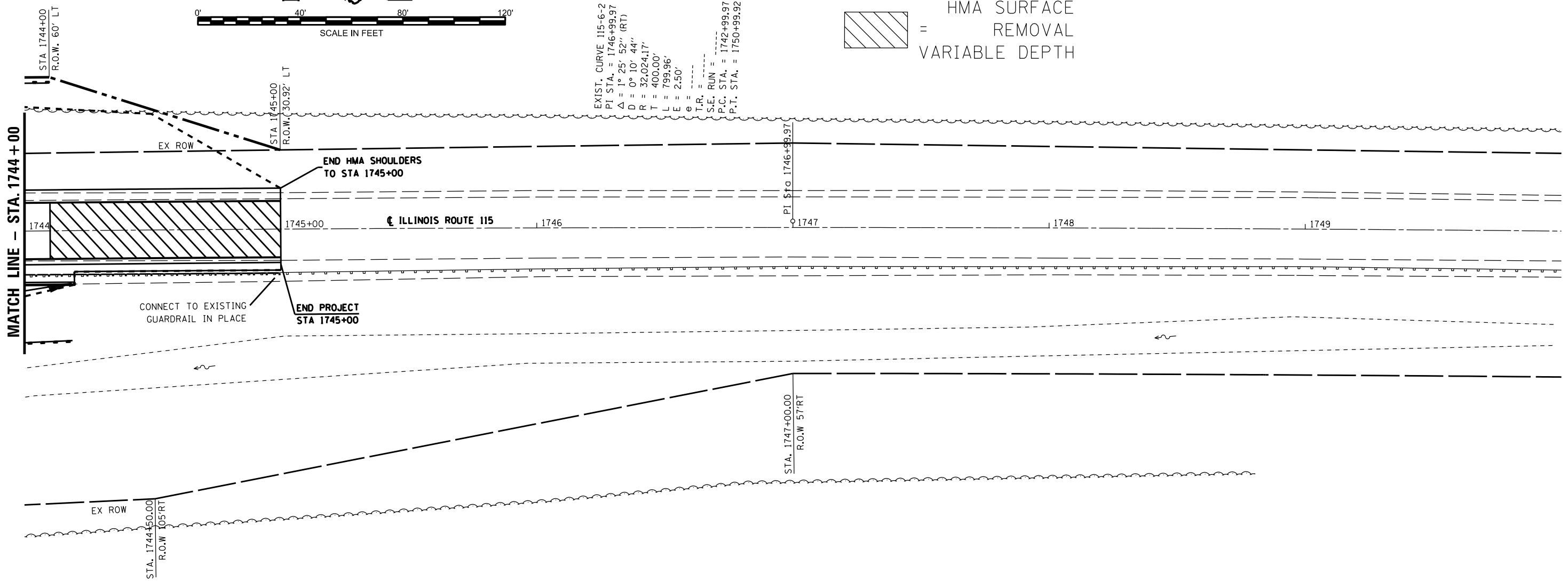
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
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	CADD FILE NAME	

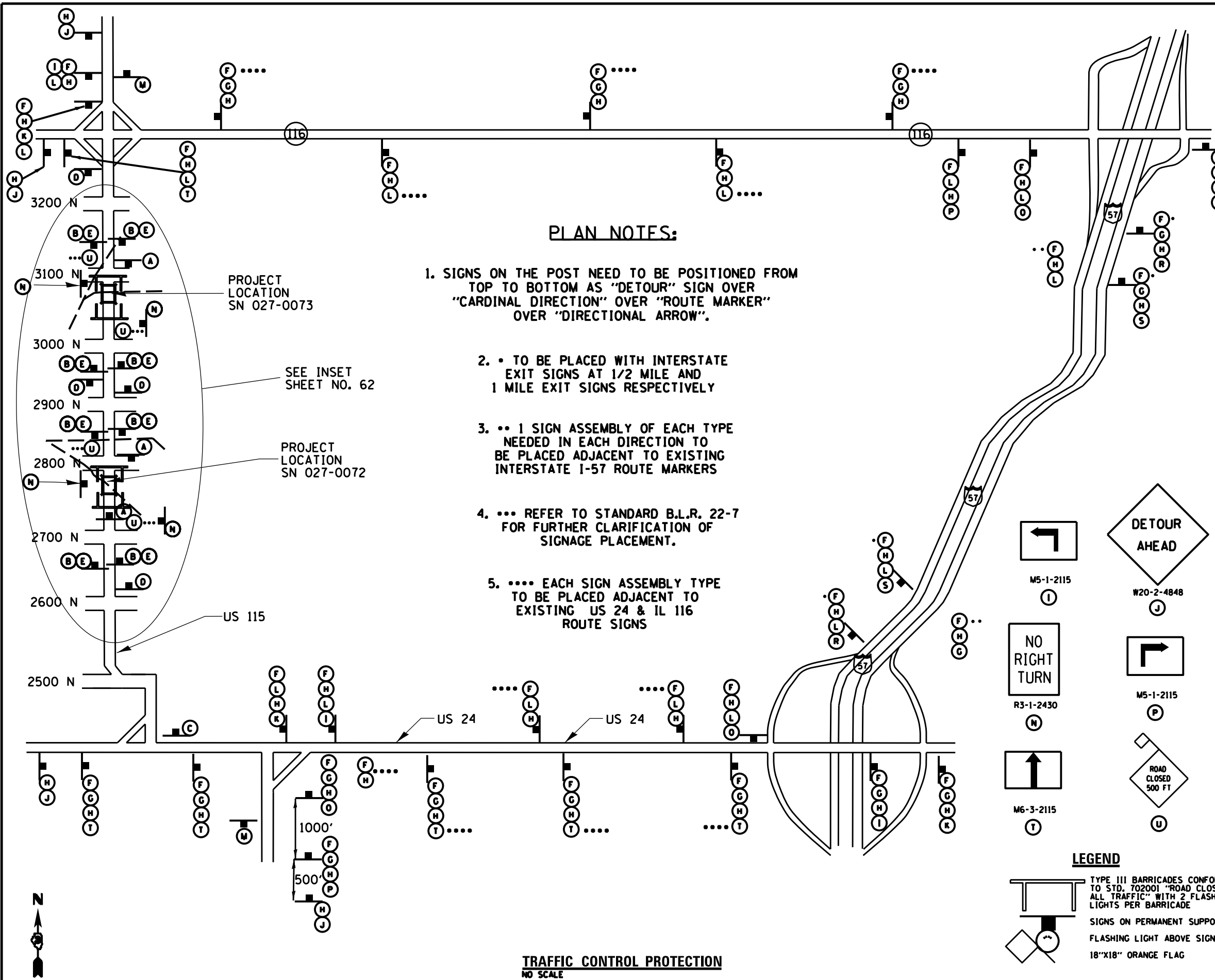


EXIST. CURVE 115-6-2
 P.I. STA. = 1746+99.97
 $\Delta = 1^\circ 25' 52''$ (RT)
 $D = 0^\circ 10' 44''$
 $R = 32,024.17'$
 $T = 400.00'$
 $L = 799.96'$
 $E = 2.50'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 1742+99.97
 P.T. STA. = 1750+99.92

= HMA SURFACE REMOVAL VARIABLE DEPTH



FILE NAME =	USER NAME = *USER*	DESIGNED - JMS 7/07/09	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 115 PLAN AND PROFILE SN 027-0072			F.A.P. RTE. 796	SECTION 1061BR-41BR	COUNTY FORD	TOTAL SHEETS 78	SHEET NO. 18			
FILES	PLOT SCALE = *SCALE*	CHECKED - ELH 7/07/09	REVISED -					SCALE: AS SHOWN SHEET NO. 3 OF 3 SHEETS STA. 1744+00 TO STA. 1750+00			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: (HORIZ) 1"=20' (VERT) 1"=5'	PLOT DATE = *DATE*	DATE - 7/07/09	REVISED -					CONTRACT NO. 66980							



PLAN NOTES:

1. SIGNS ON THE POST NEED TO BE POSITIONED FROM TOP TO BOTTOM AS "DETOUR" SIGN OVER "CARDINAL DIRECTION" OVER "ROUTE MARKER" OVER "DIRECTIONAL ARROW".
2. • TO BE PLACED WITH INTERSTATE EXIT SIGNS AT 1/2 MILE AND 1 MILE EXIT SIGNS RESPECTIVELY
3. •• 1 SIGN ASSEMBLY OF EACH TYPE NEEDED IN EACH DIRECTION TO BE PLACED ADJACENT TO EXISTING INTERSTATE I-57 ROUTE MARKERS
4. ••• REFER TO STANDARD B.L.R. 22-7 FOR FURTHER CLARIFICATION OF SIGNAGE PLACEMENT.
5. •••• EACH SIGN ASSEMBLY TYPE TO BE PLACED ADJACENT TO EXISTING US 24 & IL 116 ROUTE SIGNS

ROAD CLOSED
R11-2-4830
A

ROAD CLOSED AHEAD
W20-3-4848
B

BRIDGE OUT 1/2 MILES AHEAD LOCAL TRAFFIC ONLY
R11-3-6030
C

BRIDGE OUT 1/2 MILE AHEAD LOCAL TRAFFIC ONLY
R11-3-6030
E

BRIDGE OUT 1/2 MILES AHEAD LOCAL TRAFFIC ONLY
R11-3-6030
D

DETOUR
M4-8-2412
F

NORTH
M3-1-2412
G

115
M1-4-3024
H

DETOUR AHEAD
W20-2-4848
J

NO RIGHT TURN
R3-1-2430
N

ROAD CLOSED 500 FT
U

SOUTH
M3-3-2412
L

END DETOUR
M4-8a-2418
M

DETOUR AHEAD
M5-1-2115
I

NO RIGHT TURN
M5-1-2115
P

ROAD CLOSED 500 FT
M6-3-2115
T

DETOUR AHEAD
M6-1-2115
K

DETOUR AHEAD
M6-2-2115
R

DETOUR AHEAD
M5-2-2115
S

LEGEND

TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE

SIGNS ON PERMANENT SUPPORTS

FLASHING LIGHT ABOVE SIGN

18"x18" ORANGE FLAG

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS NOTED OTHERWISE.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL)
5. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING THE ILLINOIS 115 ROUTE MARKERS FOR THIS PROJECT. THE ROUTE MARKERS NEED TO BE 30" x 24" BLACK ON WHITE WITH 30 LETTERING FOR "ILLINOIS" AND 100 LETTERING FOR "115". THE CONTRACTOR SHALL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO PLACING THE DETOUR.

TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR

TRAFFIC CONTROL PROTECTION
NO SCALE

FILE NAME = *FILEL*	USER NAME = *USERS*	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = *SCALE*	CHECKED - DATE -	REVISED - REVISED -			796	1106 BR-1 & BR-418R	FORD	78	19	
	PLOT DATE = *DATE*					CONTRACT NO. 66980					
						ILLINOIS FED. AID PROJECT					

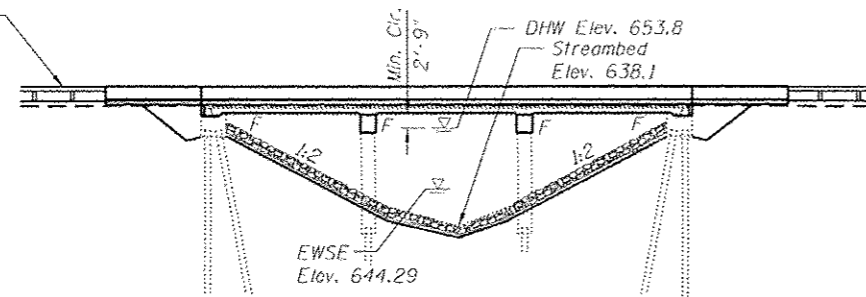
Bench Mark: Cut "C" top NE wingwall Sta. 1593+56.97, 18.45' L.L., Elev. 657.07

Existing Structure: S.N. 027-0073 originally constructed in 1983 as FA Route 796. Section 106 BR-1. Three simple span bridge constructed of 11" PPC Deck Beams supported on pile bent abutments and solid wall encased pile piers supported on concrete piles. Bk. to Bk. of abutment is 76'-10" and out to out width is 34'-8"

Traffic shall be detoured during construction.

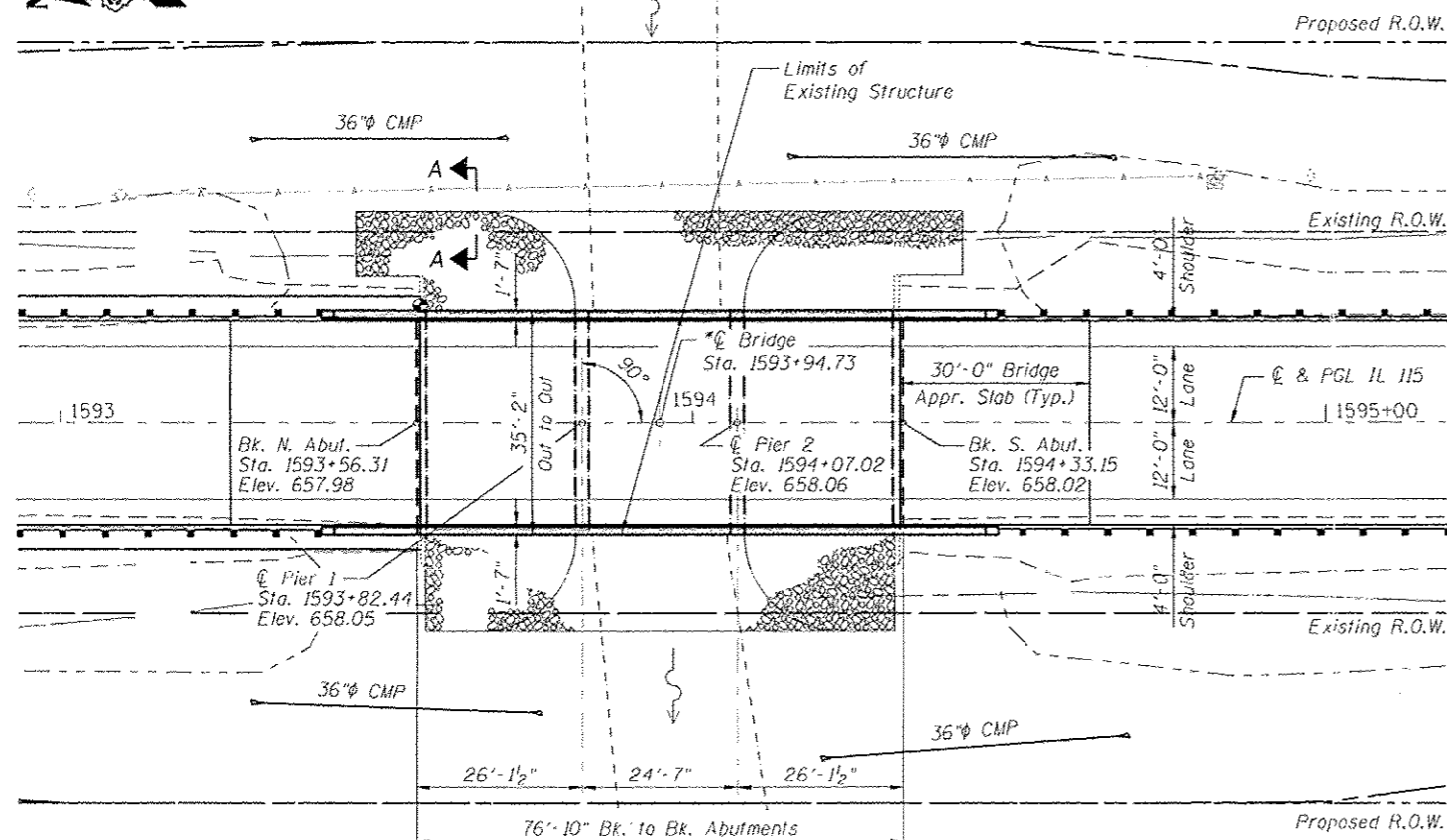
No Salvage.

Traffic Barrier Terminal Type 6 Std. 631031 (Typ.)



ELEVATION

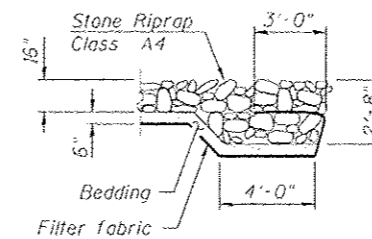
* Bridge station based on field survey dated May 2009



PLAN

SCOPE OF WORK

1. Remove existing PPC Deck Beams and replace with a continuous, three-span reinforced concrete slab.
2. Remove and replace approach slabs.
3. Remove and replace pier caps.
4. Remove each abutment backwall.
5. Repair abutment stems and pier pile encasements.
6. Replace rip rap.
7. Replace embankment and wall drains behind abutment stems.



SECTION A-A

WATERWAY INFORMATION

Drainage Area = 31.9 sq. mi.		Exist. Low Grade Elev. = 656.12 @ Sta. 1586+00		Prop. Low Grade Elev. = 656.12 @ Sta. 1586+00				
Flood	Freq. Yr.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	1050	571	653.8	0.0	0.0	653.9	653.9
Base	100	1190	630	654.8	0.0	0.0	654.8	654.8
Overtopping	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max. Calc.	500	1520	694	656.7	0.1	0.1	656.8	656.8

10-Year Velocity through Existing Bridge = 1.8 fps
10-Year Velocity through Proposed Bridge = 1.8 fps

DESIGN SCOUR ELEVATION TABLE

	N. Abut.	Pier 1	Pier 2	S. Abut.
0100	652.5	638.6	638.6	652.5
0500	652.5	637.2	637.2	652.5

LOADING HL-93

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

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications With 2010 Interims

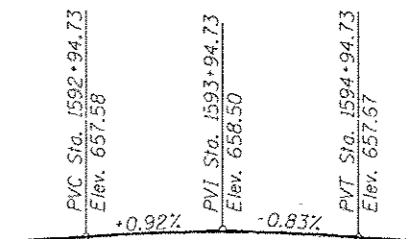
DESIGN STRESSES

FIELD UNITS

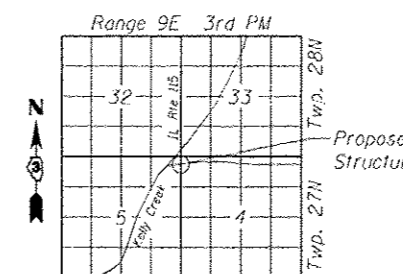
$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

SEISMIC DATA

SPC = A
A = 0.0439
S = 1.2



PROFILE GRADE (along IL Route 115)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

IL 115 OVER KELLY CREEK

FAP 796

SEC. (106 BR-1 & BR-4)BR

FORD COUNTY

STA. 1593+94.73

STRUCTURE NO. 027-0073

APPROVED

For Structural Adequacy Only

Carl Rungger
Engineer of Bridges & Structures



Robert J. ...
10.31.12
November 30, 2014
Expires

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 027-0073

SHEET NO. SB-01 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	20
CONTRACT NO. 66980				
[ILLINOIS] FED. AID PROJECT				

ZROKA Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME : SAW	DESIGNED : PM	REVISED :
PLOT SCALE : 0:2,000 1" = 110'	CHECKED : JLA	REVISED :
PLOT DATE : 10/30/2012	DRAWN : SAW	REVISED :
	CHECKED : PM	REVISED :

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu Yd		50	50
Stone Riprap, Class A4	Sq Yd		588	588
Filter Fabric	Sq Yd		588	588
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu Yd		22.0	22.0
Structure Excavation	Cu Yd		68	68
Concrete Structures	Cu Yd		40.3	40.3
Concrete Superstructure	Cu Yd	252.3		252.3
Bridge Deck Grooving	Sq Yd	453		453
Protective Coat	Sq Yd	579		579
Reinforcement Bars, Epoxy Coated	Pound	59,950	6,190	66,140
Name Plates	Each	1		1
Epoxy Crack Injection	Foot		42	42
Geocomposite Wall Drain	Sq Yd		24	24
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq Ft		2	2
Pipe Underdrains For Structures 4"	Foot		115	115

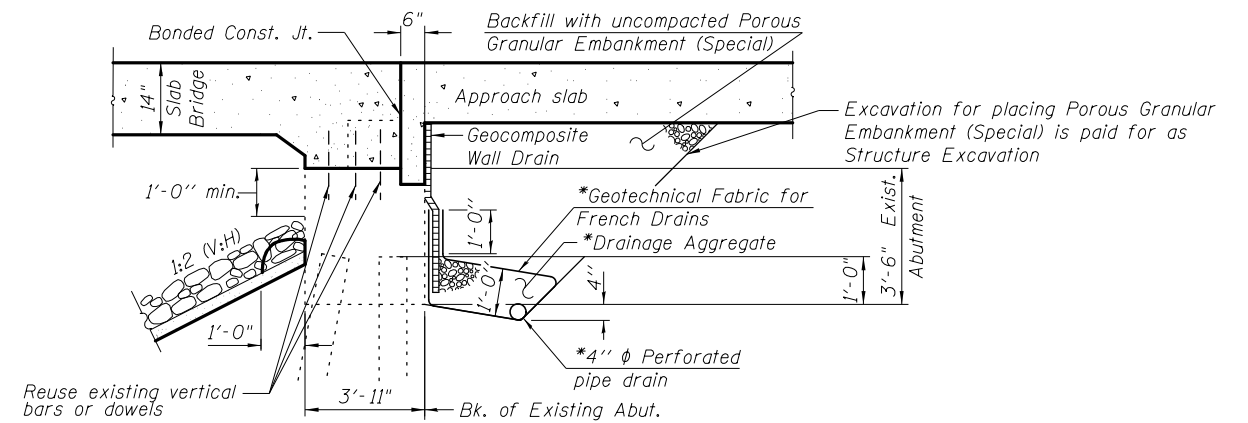
INDEX OF SHEETS

- SB-01. General Plan and Elevation
- SB-02. General Data
- SB-03. Top of Slab Elevations
- SB-04. North Approach Slab Elevations
- SB-05. South Approach Slab Elevations
- SB-06. Superstructure
- SB-07. Superstructure Details
- SB-08. Superstructure Details
- SB-09. Concrete Parapet Slipforming Option
- SB-10. Bridge Approach Slab Details
- SB-11. Bridge Approach Slab Details
- SB-12. Abutment Repairs
- SB-13. Pier Modifications

STATION 1593+94.73
RE-BUILT 201 BY
STATE OF ILLINOIS
F.A.P. RT. 796
SEC. (106 BR-1 & BR-4)BR
STR. NO. 027-0073

NAME PLATE
See Std. 515001

Existing Name Plate shall be cleaned and relocated next to the new Name Plate. Cost included with Name Plates.



SECTION THRU ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

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).

FILE NAME = \$FILEL\$



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USER NAME = \$USER\$	DESIGNED - PM	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

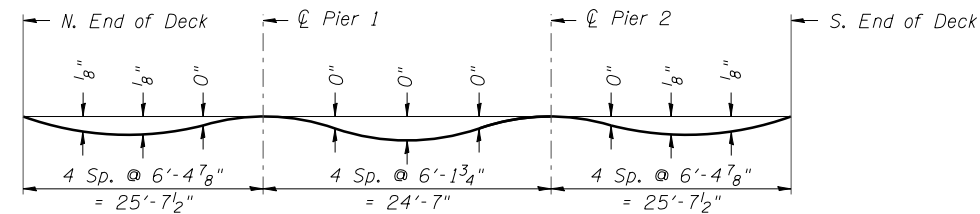
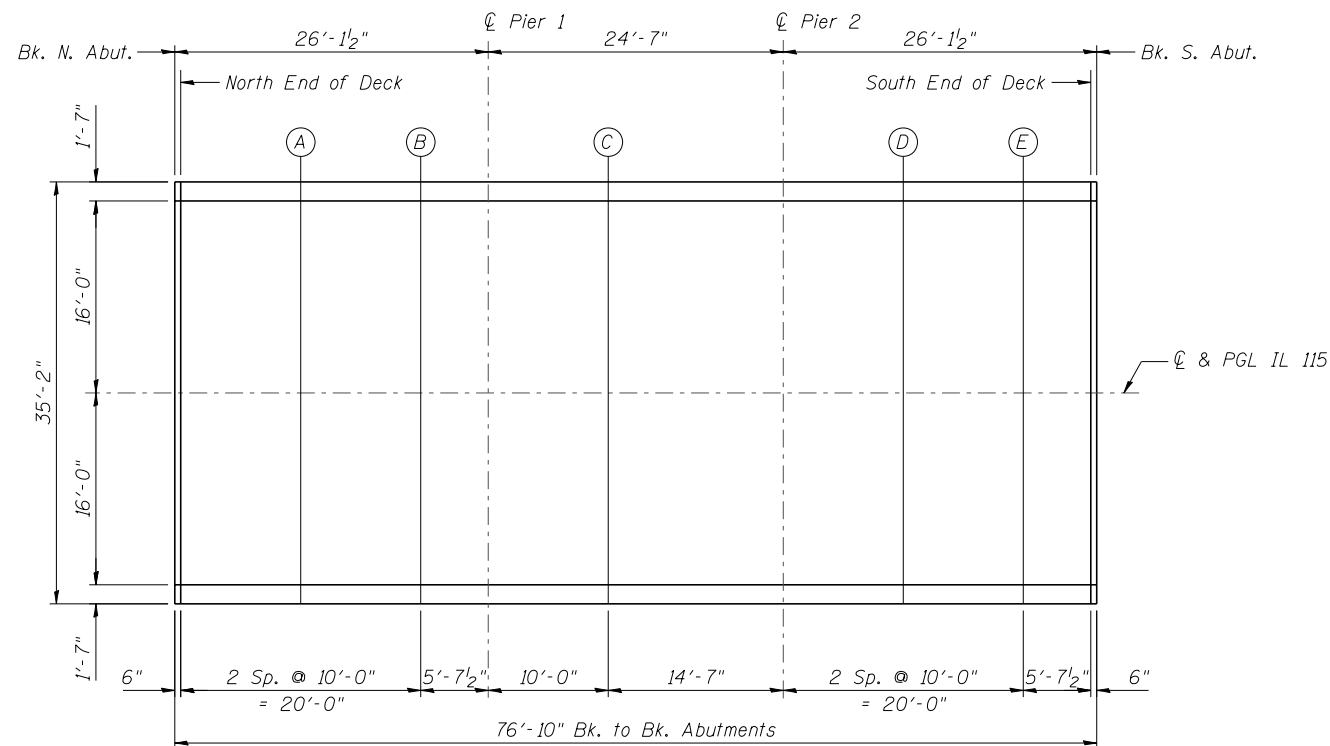
**GENERAL DATA
S.N. 027-0073**

SHEET NO. SB-02 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	21
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

CL ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1593+56.31	0.00	657.98	657.98
N. End of Deck	1593+56.81	0.00	657.98	657.98
A	1593+66.81	0.00	658.02	658.03
B	1593+76.81	0.00	658.04	658.05
CL Pier 1	1593+82.44	0.00	658.05	658.05
C	1593+92.44	0.00	658.06	658.06
CL Pier 2	1594+07.02	0.00	658.06	658.06
D	1594+17.02	0.00	658.05	658.06
E	1594+27.02	0.00	658.03	658.04
S. End of Deck	1594+32.65	0.00	658.02	658.02
Bk. S. Abut.	1594+33.15	0.00	658.02	658.02



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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 in table.

FILE NAME = ...665980-SN0270073-003-TopSlabElev.dgn



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**TOP OF SLAB ELEVATIONS
S.N. 027-0073**

SHEET NO. SB-03 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	22
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

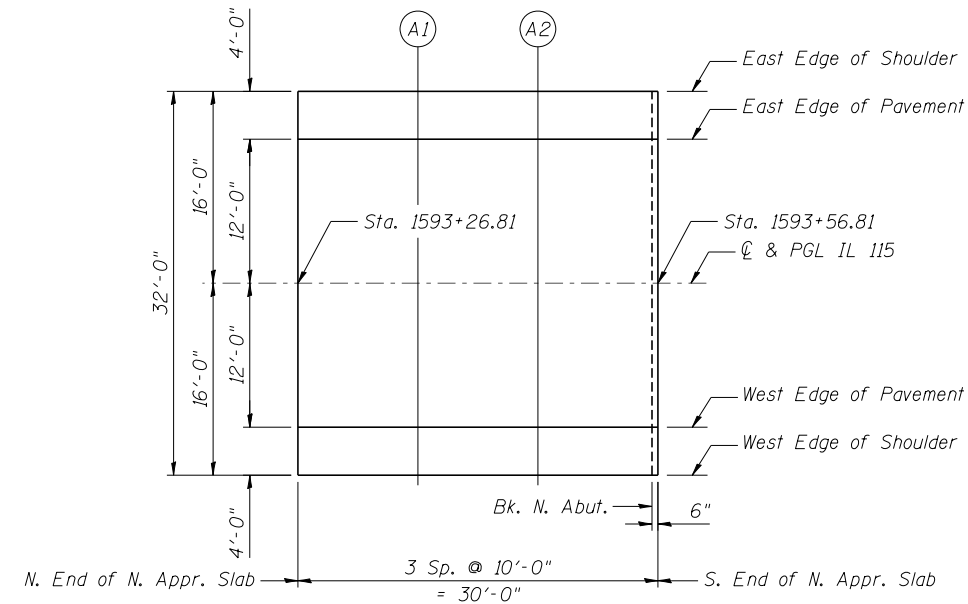
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmt.	1593+26.81	-16.00	657.56
A1	1593+36.81	-16.00	657.62
A2	1593+46.81	-16.00	657.67
S. End North Appr. Pvmt.	1593+56.81	-16.00	657.71

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmt.	1593+26.81	-12.00	657.64
A1	1593+36.81	-12.00	657.70
A2	1593+46.81	-12.00	657.75
S. End North Appr. Pvmt.	1593+56.81	-12.00	657.80

℄ ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmt.	1593+26.81	0.00	657.83
A1	1593+36.81	0.00	657.89
A2	1593+46.81	0.00	657.94
S. End North Appr. Pvmt.	1593+56.81	0.00	657.98



WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmt.	1593+26.81	12.00	657.64
A1	1593+36.81	12.00	657.70
A2	1593+46.81	12.00	657.75
S. End North Appr. Pvmt.	1593+56.81	12.00	657.80

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmt.	1593+26.81	16.00	657.56
A1	1593+36.81	16.00	657.62
A2	1593+46.81	16.00	657.67
S. End North Appr. Pvmt.	1593+56.81	16.00	657.71

FILE NAME = ...\\66580-S\0270073-004-NApprSlabElev.dgn



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STATE OF ILLINOIS
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NORTH APPROACH SLAB ELEVATIONS
S.N. 027-0073

SHEET NO. SB-04 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66980	

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmt.	1594+32.65	-16.00	657.75
A3	1594+42.65	-16.00	657.71
A4	1594+52.65	-16.00	657.67
S. End South Appr. Pvmt.	1594+62.65	-16.00	657.62

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmt.	1594+32.65	-12.00	657.83
A3	1594+42.65	-12.00	657.80
A4	1594+52.65	-12.00	657.75
S. End South Appr. Pvmt.	1594+62.65	-12.00	657.70

℄ ROADWAY & PROFILE GRADE LINE

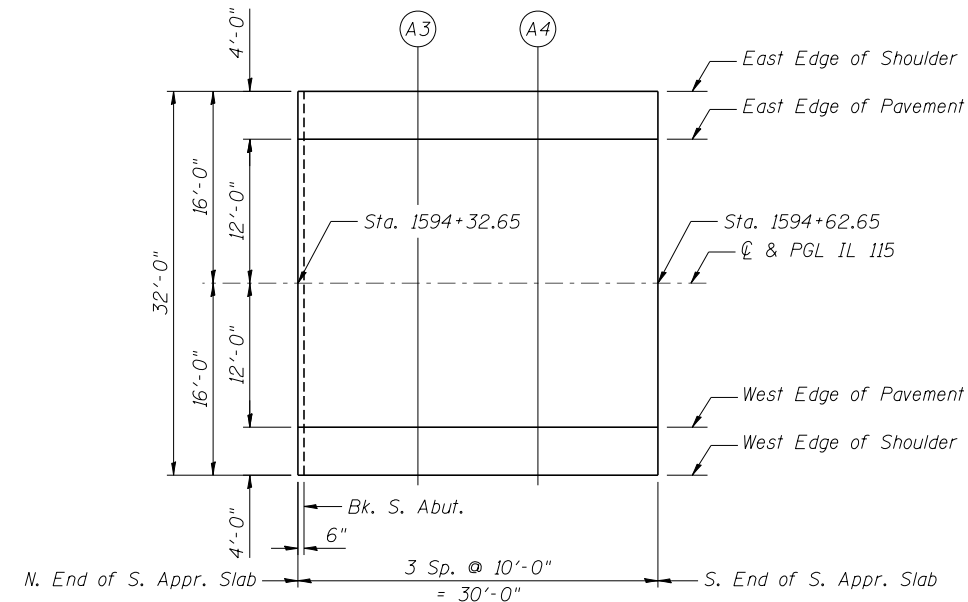
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmt.	1594+32.65	0.00	658.02
A3	1594+42.65	0.00	657.98
A4	1594+52.65	0.00	657.94
S. End South Appr. Pvmt.	1594+62.65	0.00	657.89

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmt.	1594+32.65	12.00	657.83
A3	1594+42.65	12.00	657.80
A4	1594+52.65	12.00	657.75
S. End South Appr. Pvmt.	1594+62.65	12.00	657.70

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmt.	1594+32.65	16.00	657.75
A3	1594+42.65	16.00	657.71
A4	1594+52.65	16.00	657.67
S. End South Appr. Pvmt.	1594+62.65	16.00	657.62



PLAN



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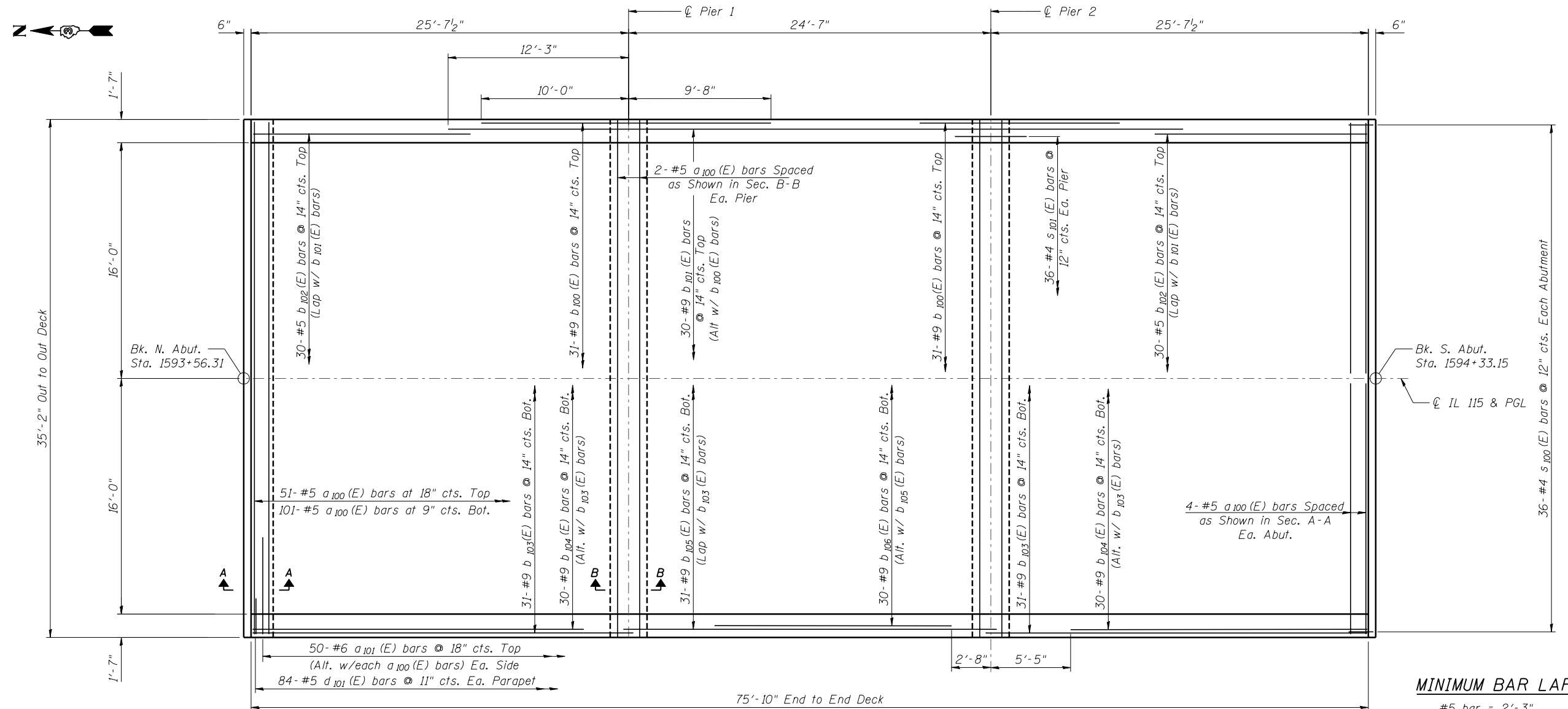
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH APPROACH SLAB ELEVATIONS
S.N. 027-0073**

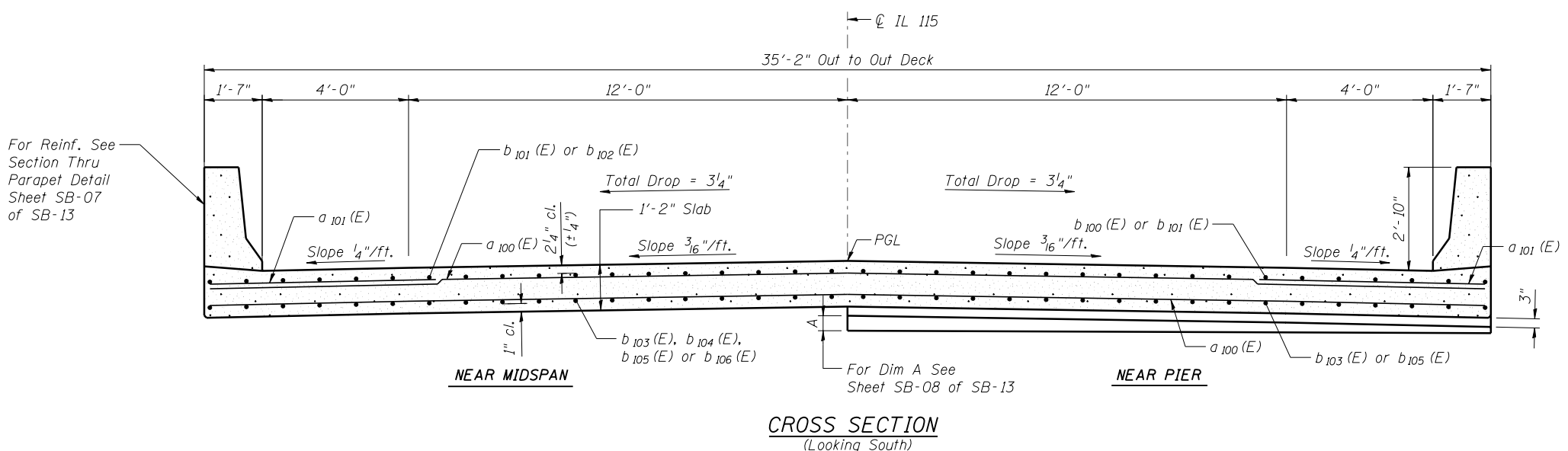
SHEET NO. SB-05 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	24
CONTRACT NO. 66980				ILLINOIS FED. AID PROJECT

Notes:
For Section A-A and Section B-B See Sheet SB-08 of SB-13.



MINIMUM BAR LAP
#5 bar = 2'-3"
#9 bar = 5'-11"



FILE NAME = ...665980-SN0270073-006-Superstructure.dgn

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Chicago, IL 60613

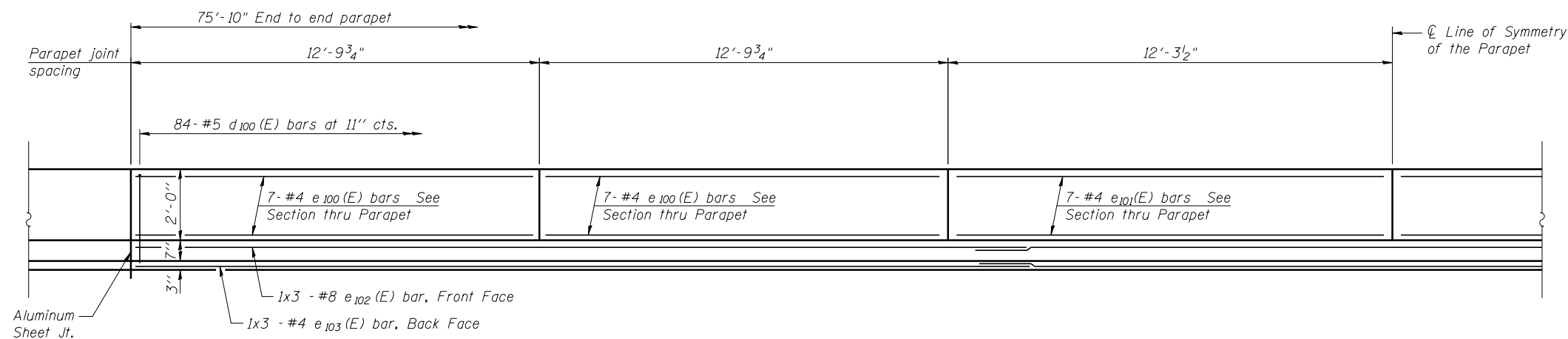
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
S.N. 027-0073

SHEET NO. SB-06 OF SB-13 SHEETS

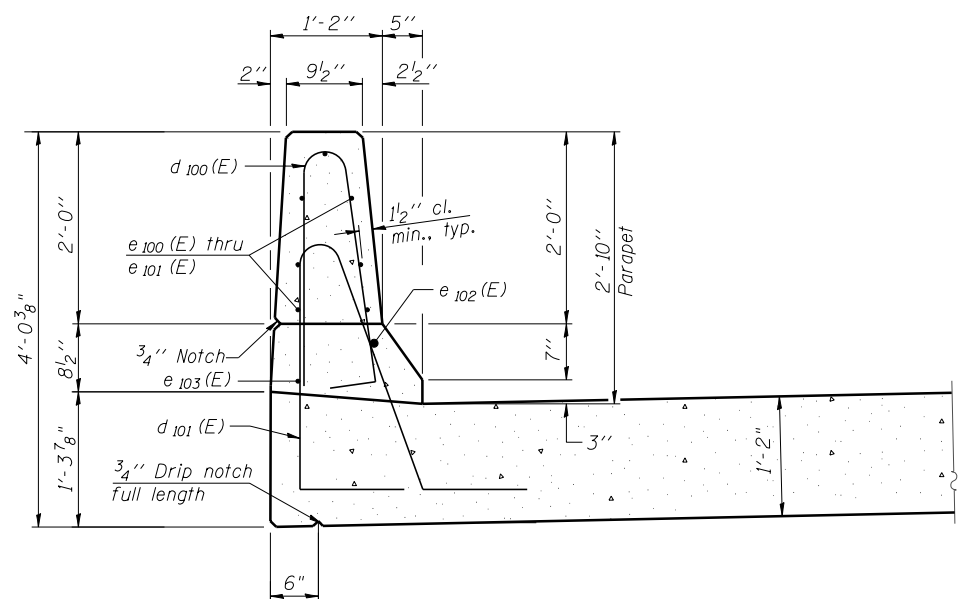
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	25
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				



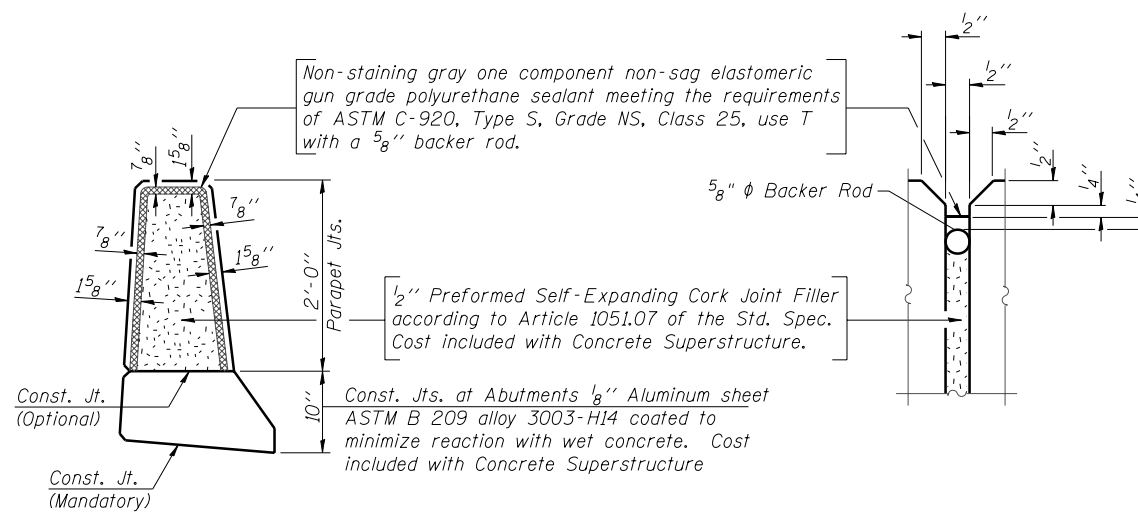
INSIDE ELEVATION OF PARAPET
 (East Parapet Shown, West Parapet Similar, Opposite Hand)

MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-0"
 #8 bar = 5'-2"



SECTION THRU PARAPET



PARAPET JOINT DETAILS

Note:

Bars indicated thus: 1x3-#4 etc. indicates 1 line of bars with 3 lengths per line.

FILE NAME = ...665980-SN0270073-007-SupDe1.dgn



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 Chicago, IL 60613

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

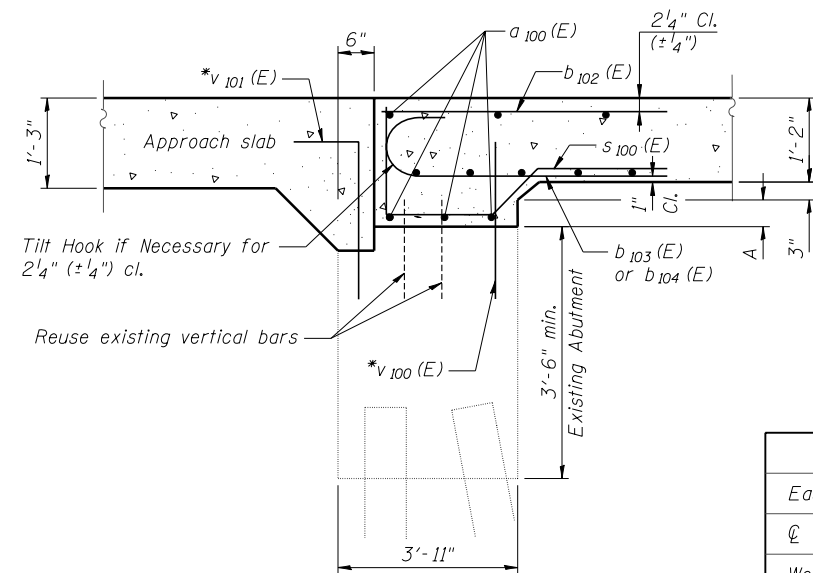
**SUPERSTRUCTURE DETAILS
 S.N. 027-0073**

SHEET NO. SB-07 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	26
				CONTRACT NO. 66980
ILLINOIS FED. AID PROJECT				

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a ₁₀₀ (E)	164	#5	34'-11"	—
a ₁₀₁ (E)	100	#6	6'-6"	—
b ₁₀₀ (E)	62	#9	19'-8"	—
b ₁₀₁ (E)	30	#9	49'-1"	—
b ₁₀₂ (E)	60	#5	15'-10"	—
b ₁₀₃ (E)	62	#9	26'-11"	C
b ₁₀₄ (E)	60	#9	21'-0"	C
b ₁₀₅ (E)	31	#9	25'-7"	—
b ₁₀₆ (E)	30	#9	19'-3"	—
d ₁₀₀ (E)	168	#5	5'-7"	D
d ₁₀₁ (E)	168	#5	7'-8"	D
e ₁₀₀ (E)	56	#4	12'-6"	—
e ₁₀₁ (E)	28	#4	12'-0"	—
e ₁₀₂ (E)	6	#8	28'-9"	—
e ₁₀₃ (E)	6	#4	26'-8"	—
s ₁₀₀ (E)	72	#4	6'-4"	S
s ₁₀₁ (E)	72	#4	6'-10"	S
Reinforcement Bars, Epoxy Coated			Pound	35,920
Concrete Superstructure			Cu. Yds.	141.4



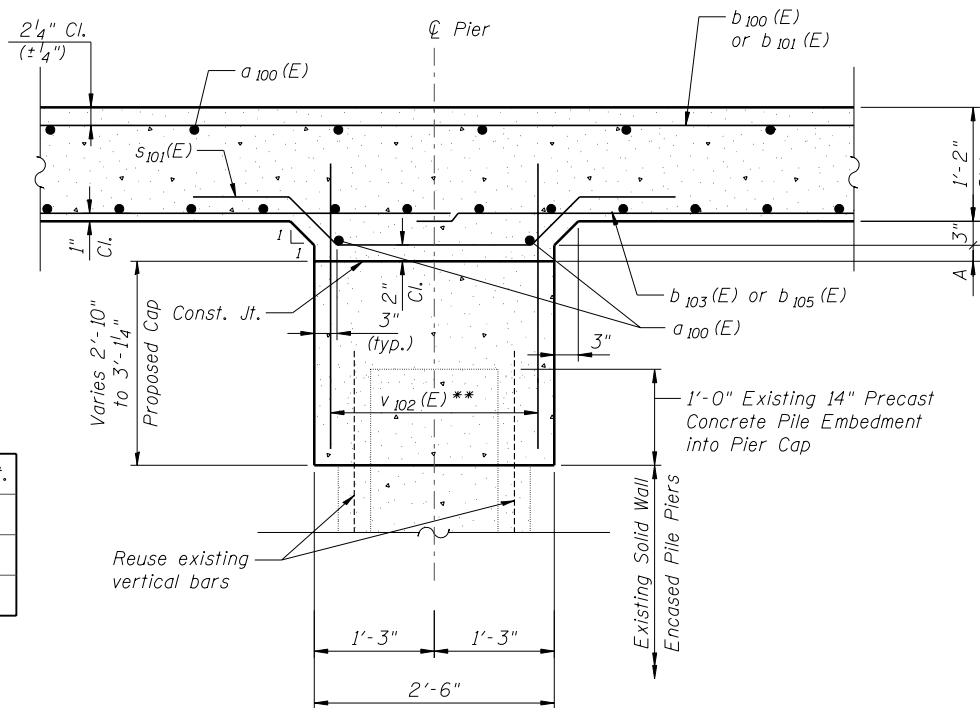
SECTION A-A

* v₁₀₀(E) and v₁₀₁(E) bars billed with Abutments

Note: Existing dowel bars not shown for clarity. See Sheet SB-12.

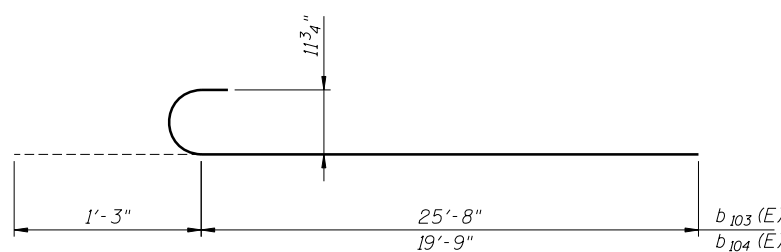
DIMENSION "A"

	N. Abut.	Pier 1	Pier 2	S. Abut.
East Edge of Bridge	3 ¹ / ₄ "	3 ³ / ₄ "	3 ⁷ / ₈ "	3 ³ / ₄ "
℄ Roadway & PGL	3 ⁵ / ₈ "	4 ¹ / ₈ "	4 ¹ / ₈ "	4 ¹ / ₈ "
West Edge of Bridge	3 ¹ / ₄ "	3 ³ / ₄ "	3 ⁷ / ₈ "	3 ³ / ₄ "

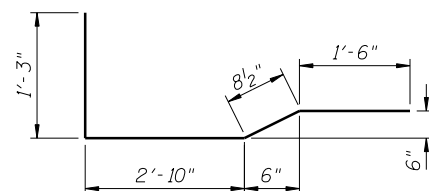


SECTION B-B

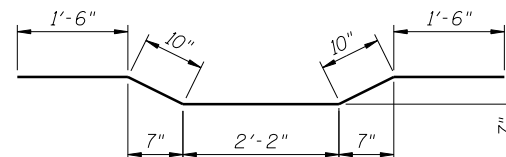
**v₁₀₂(E) bars billed with pier



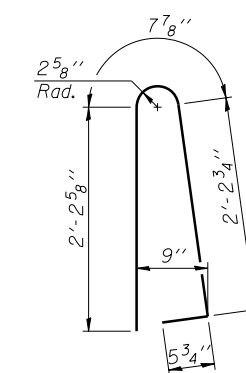
BARS b₁₀₃(E) & b₁₀₄(E)



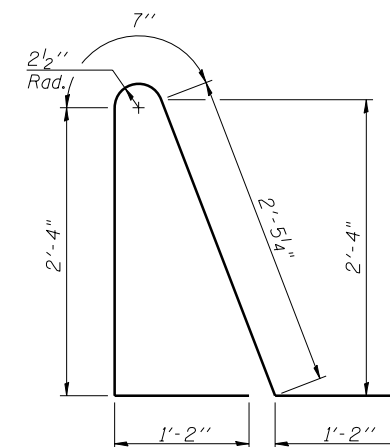
BAR s₁₀₀(E)



BAR s₁₀₁(E)



BAR d₁₀₀(E)



BAR d₁₀₁(E)

FILE NAME = ...G65980-SN0270073-008-SupDe-2.dgn



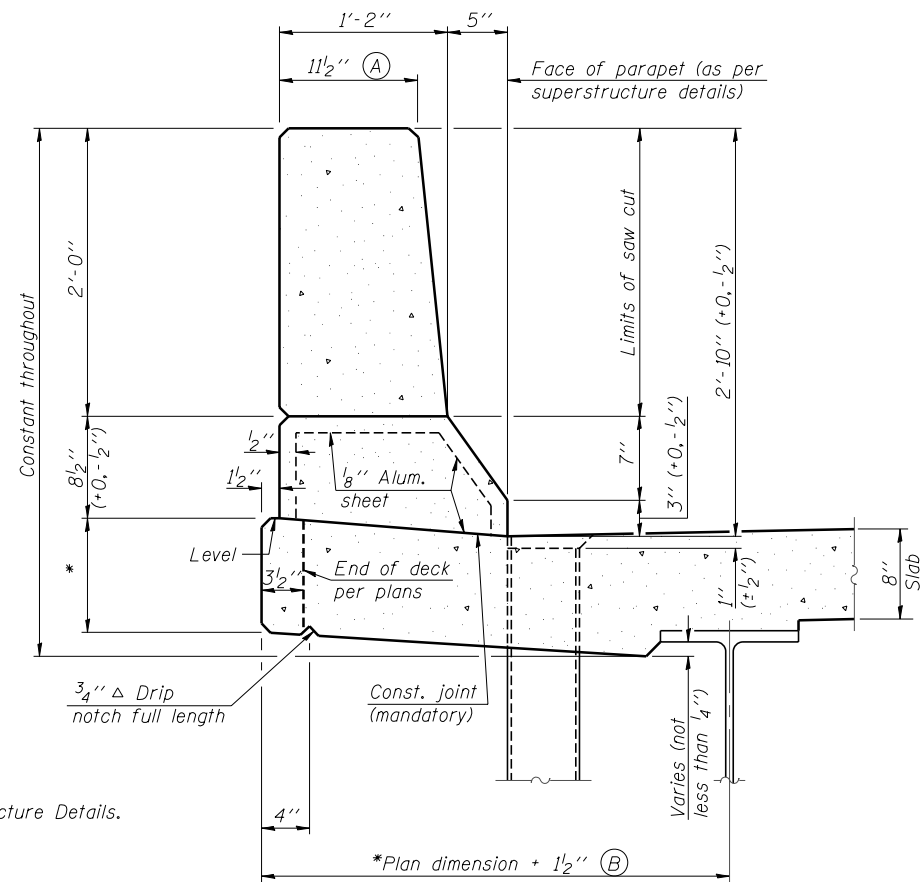
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
S.N. 027-0073**

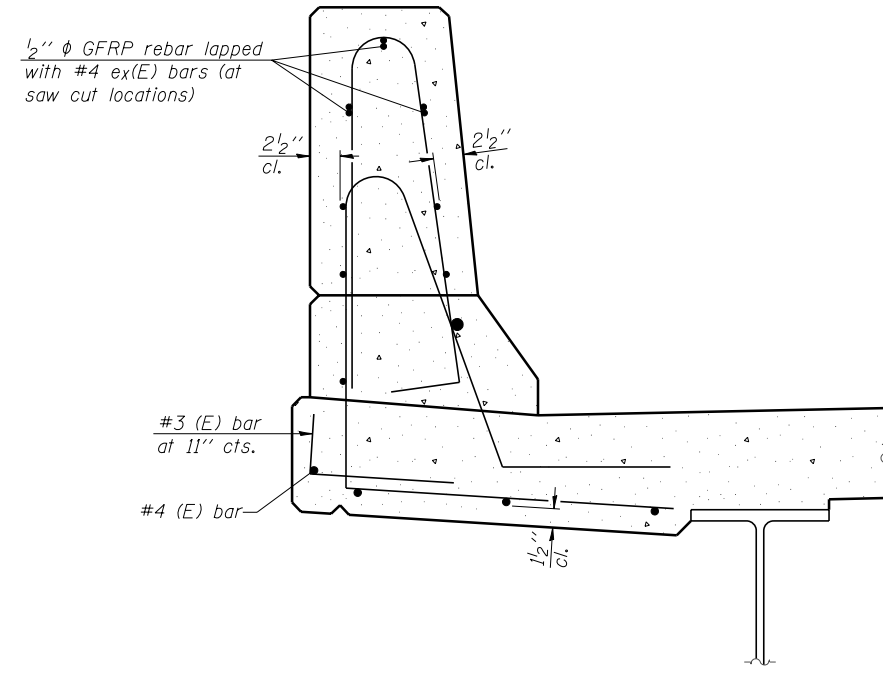
SHEET NO. SB-08 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	27
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				



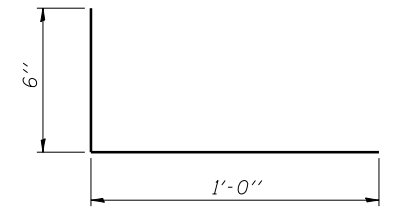
SECTION
(Showing dimensions)

* See Superstructure Details.

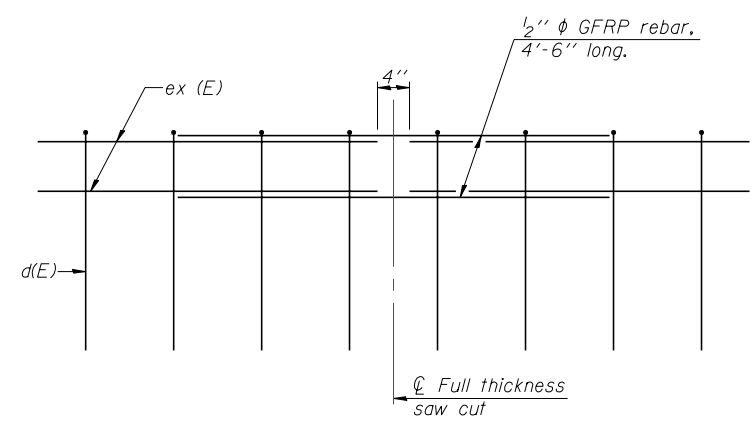


SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES
 All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete will be needed to revise dimension A and B. No adjustment in quantity for payment will be allowed for this option.
 Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.
 Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)

FILE NAME = ...665980-SN0270073-0003-SlipForming.dgn

SFP-34

7-1-10



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**STATE OF ILLINOIS
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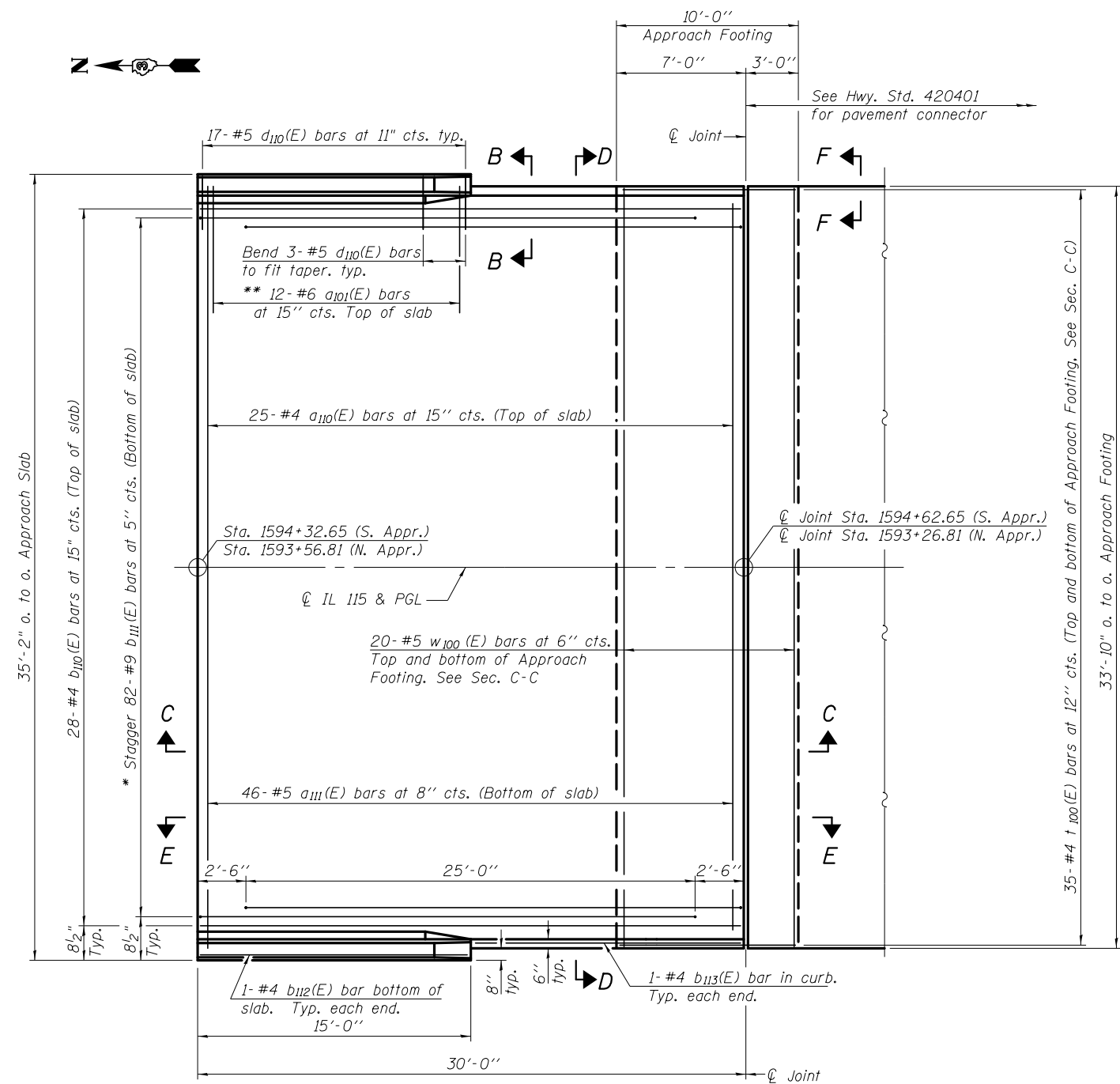
**CONCRETE PARAPET SLIPFORMING OPTION
S.N. 027-0073**

SHEET NO. SB-09 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	28
CONTRACT NO. 66980				

ILLINOIS FED. AID PROJECT

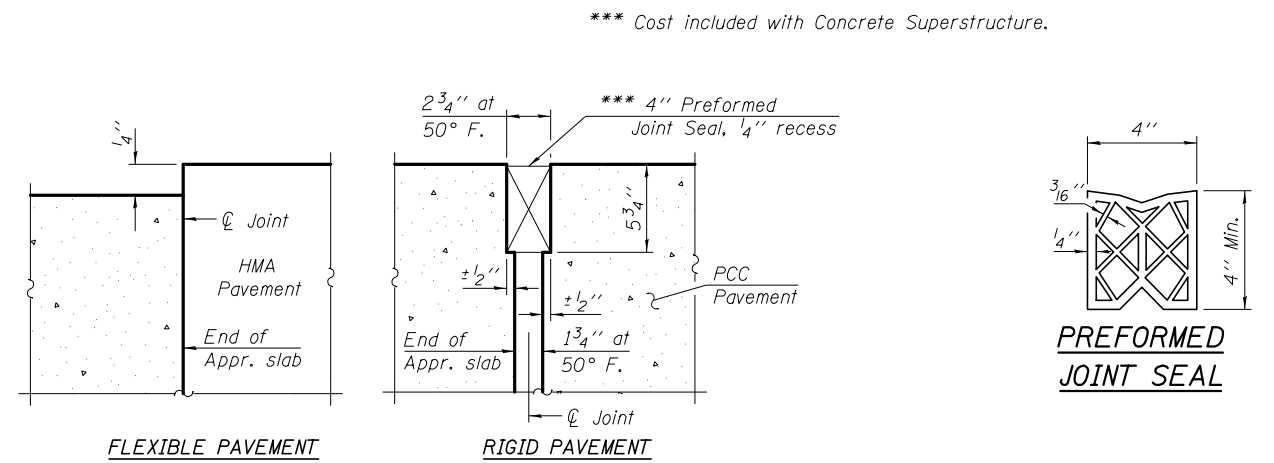
Notes:
See sheet SB-11 of SB-13 for Sections C-C & D-D and View E-E.
 $a_{110}(E)$ and $a_{111}(E)$ bar spacings measured along \varnothing Rdwy.



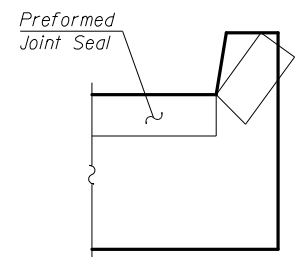
PLAN

South Approach Slab shown
North Approach Slab similar, opposite hand

* Tilt #9 $b_{111}(E)$ bars as required to maintain clearance.
** Space between $a_{110}(E)$ bars, typ. ea. parapet.

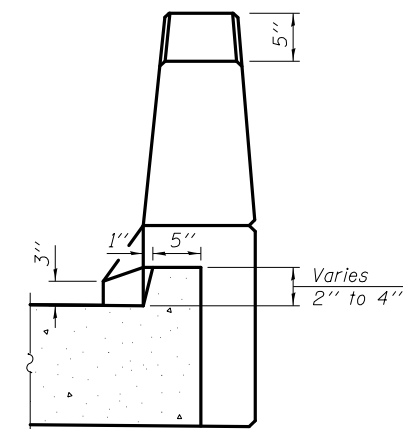


DETAIL A



VIEW F-F

Angle Preformed Joint Seal at 45°
at curbs when req'd for drainage.



VIEW B-B

(Sheet 1 of 2)

BA-0 7-1-10

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Zroka Engineering, P.C.
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Chicago, IL 60613

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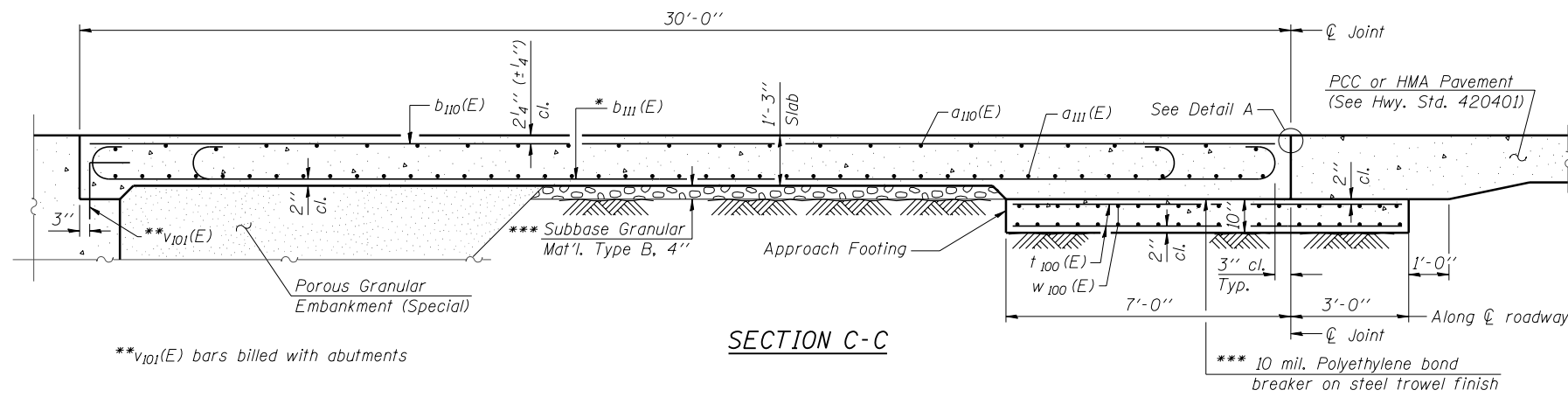
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
S.N. 027-0073

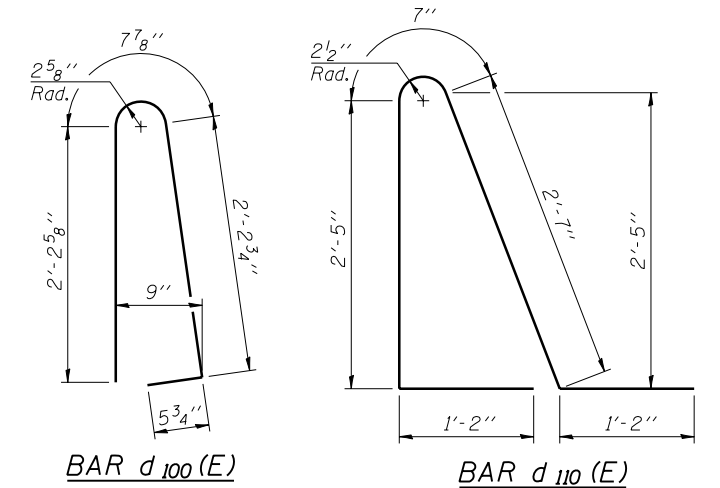
SHEET NO. SB-10 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66980				

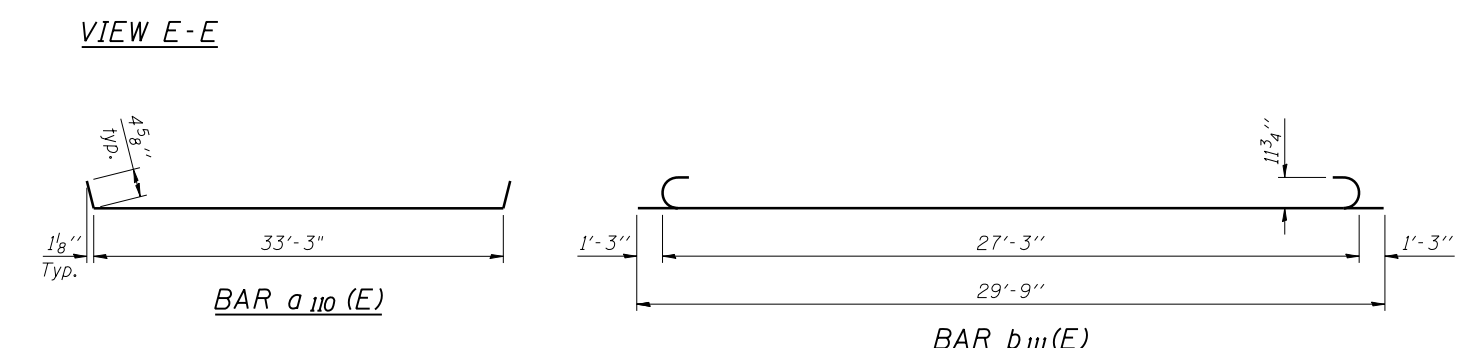
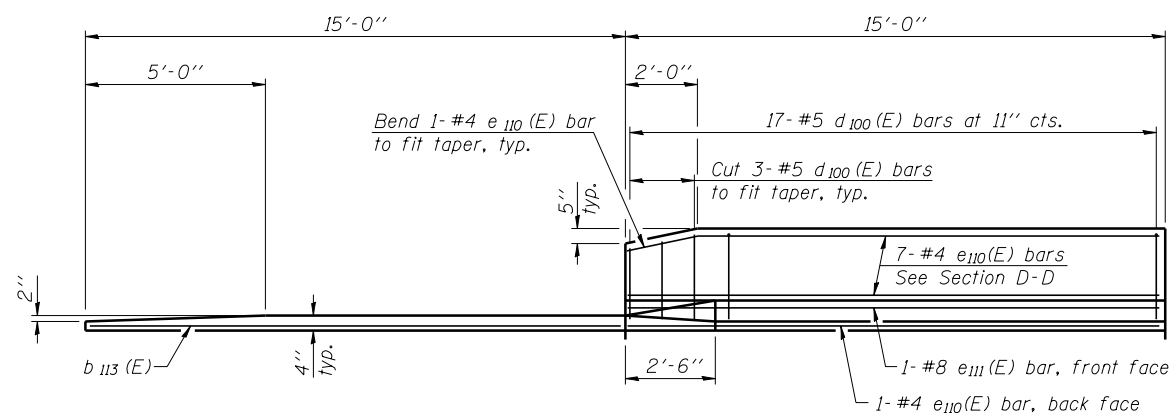
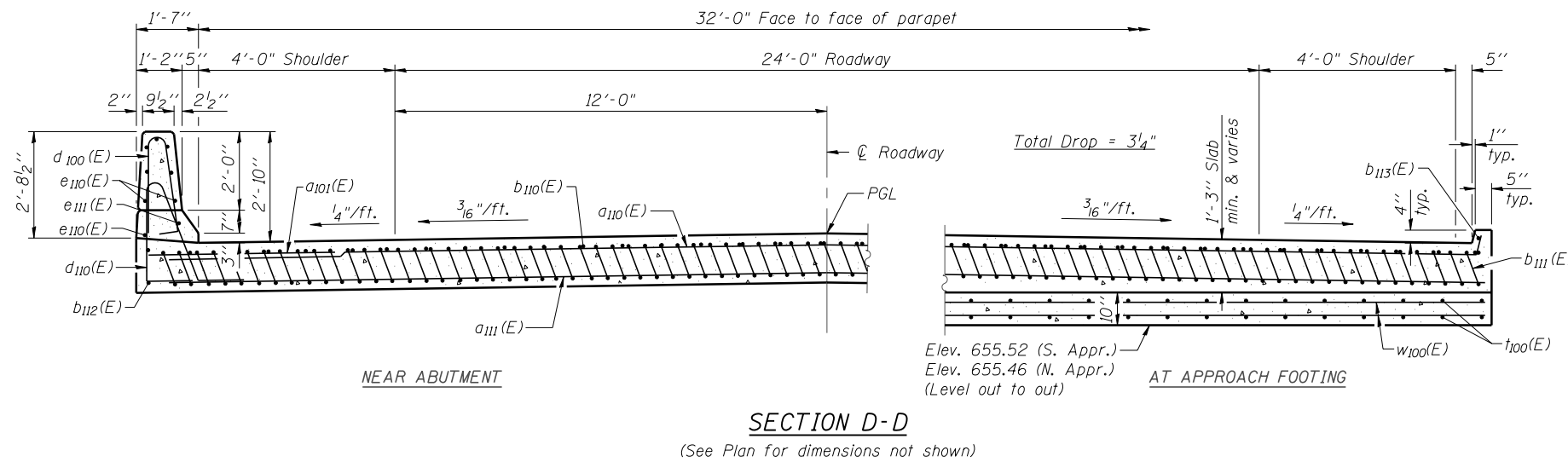
ILLINOIS FED. AID PROJECT



Notes:
 See sheet SB-10 of SB-13 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet SB-02 of SB-13.
 For $v_{101}(E)$ bar details, see sheet SB-12 of SB-13.



* Tilt #9 $b_{111}(E)$ bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_{101}(E)$	48	#6	6'-6"	—
$a_{110}(E)$	50	#4	34'-1"	—
$a_{111}(E)$	92	#5	33'-6"	—
$b_{110}(E)$	56	#4	29'-8"	—
$b_{111}(E)$	164	#9	29'-9"	—
$b_{112}(E)$	4	#4	14'-8"	—
$b_{113}(E)$	4	#4	14'-8"	—
$d_{100}(E)$	68	#5	5'-7"	—
$d_{110}(E)$	68	#5	7'-11"	—
$e_{110}(E)$	32	#4	14'-8"	—
$e_{111}(E)$	4	#8	14'-8"	—
$t_{100}(E)$	140	#4	9'-8"	—
$w_{100}(E)$	80	#5	33'-6"	—
Concrete Superstructure		Cu. Yd.	110.9	
Concrete Structures		Cu. Yd.	20.9	
Reinforcement Bars, Epoxy Coated		Pound	27,730	

BA-0 7-1-10



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PLOT DATE = 10/30/2012	DRAWN - SAW	REVISED -
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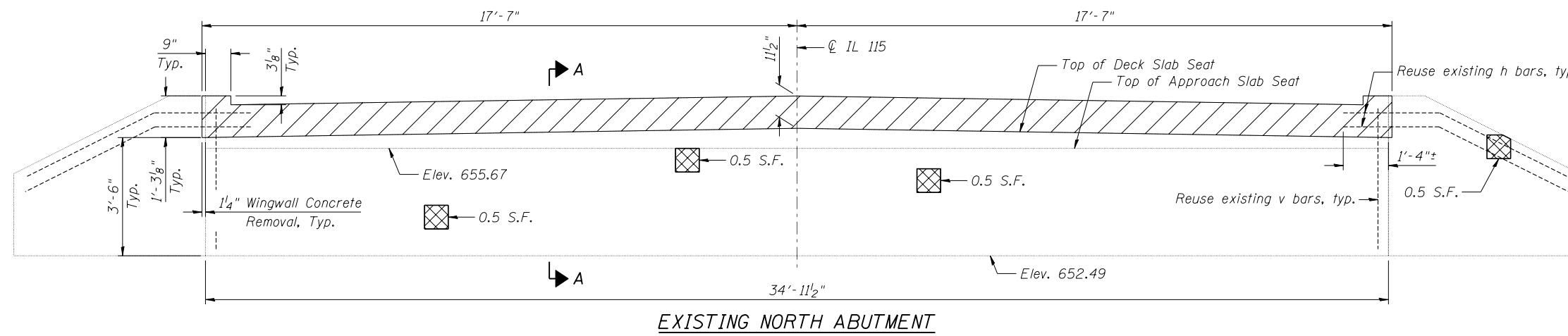
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 S.N. 027-0073

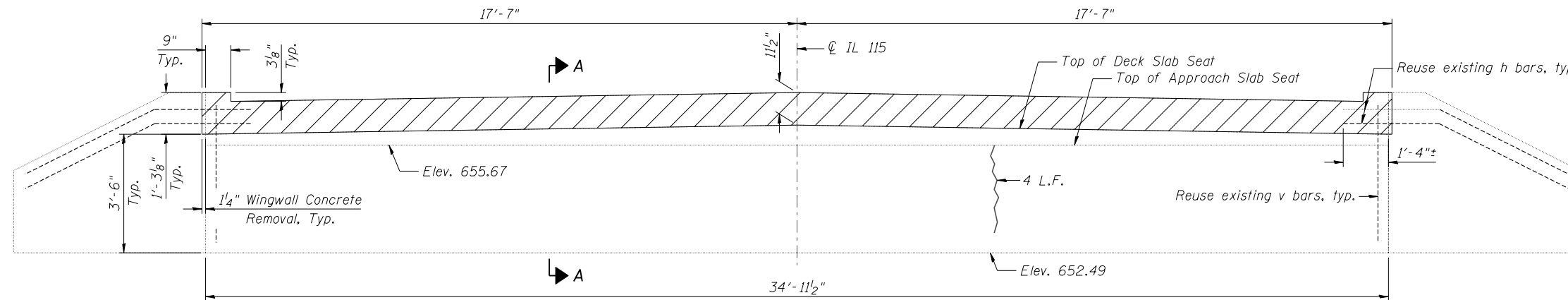
SHEET NO. SB-11 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	30
			CONTRACT NO. 66980	
ILLINOIS FED. AID PROJECT				

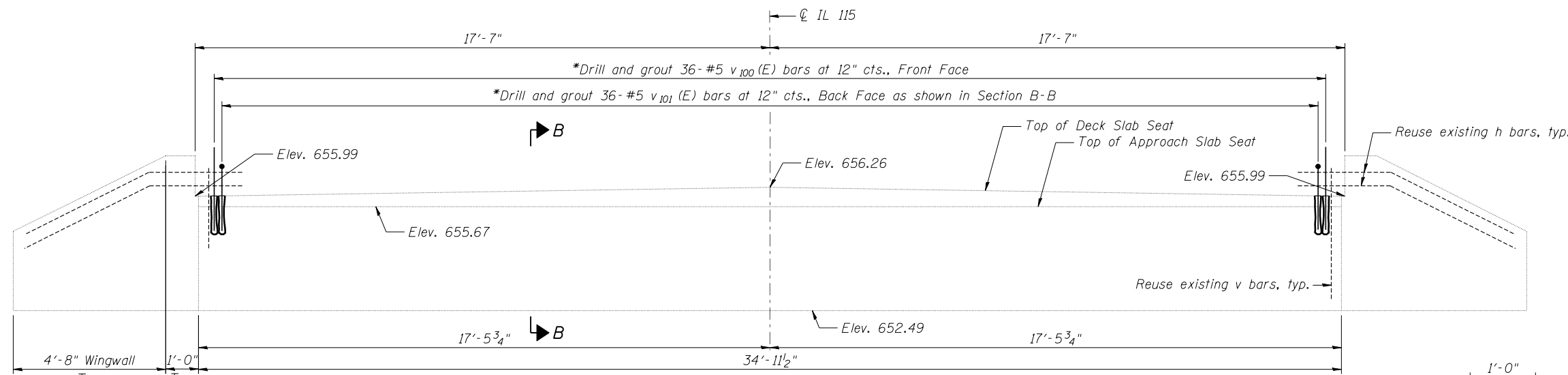
FILE NAME = ...66980-SN0270073-011-Appr-Slab2.dgn



EXISTING NORTH ABUTMENT



EXISTING SOUTH ABUTMENT



ABUTMENT ELEVATION, TYP.

*Drill and epoxy grout bars into existing concrete according to Section 584 of the Standard Specifications. Min. Embedment = 9" typ. Cost included with Reinforcement Bars, Epoxy Coated

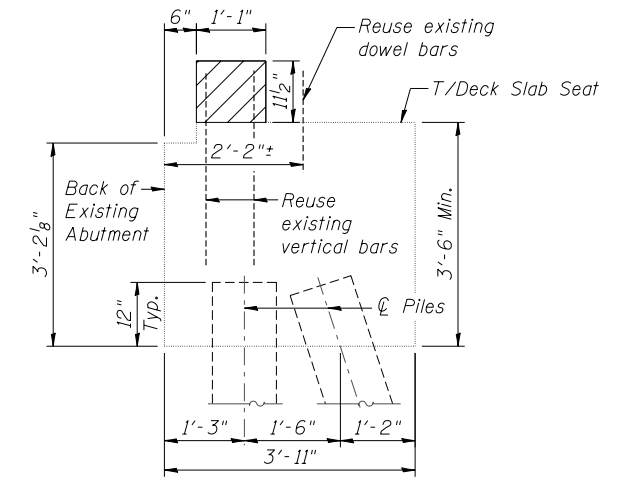
LEGEND

- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Epoxy Crack Injection

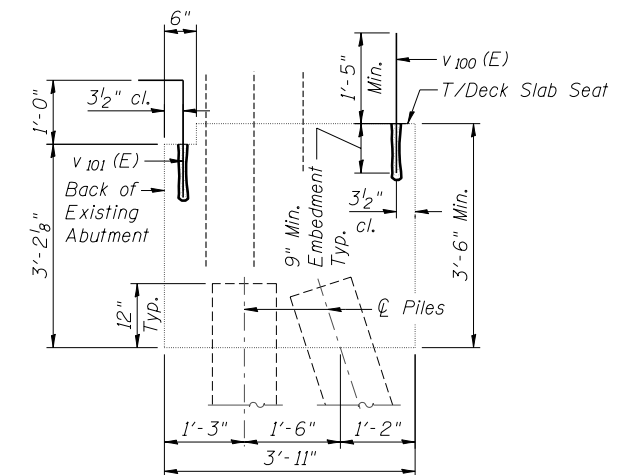
Notes:

Existing reinforcement and dowels shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

Repairs shown are based upon observations performed at the time of plan preparation and are for bidding purposes only. Actual areas to be repaired shall be determined by the Field Engineer at the time of construction.



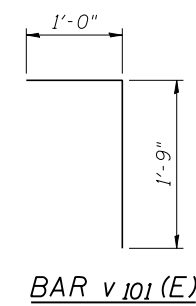
SECTION A-A



SECTION B-B

**TWO ABUTMENTS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
v 100 (E)	72	#5	2'-2"	—	
v 101 (E)	72	#5	2'-9"	└	
Reinforcement Bars, Epoxy Coated				Pound	370
Structure Excavation				Cu. Yd.	68
Concrete Removal				Cu. Yd.	2.8
Structural Repair of Concrete (Depth Equal to or Less Than 5")				Sq. Ft.	2
Epoxy Crack Injection				Foot	4



BAR v 101 (E)

FILE NAME = ...665980-SN0270073-012-AbutRepairs.dgn



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PLOT SCALE = 0:2.0000 ' / IN.	CHECKED - JLA	REVISED -
PLOT DATE = 10/30/2012	DRAWN - SAW	REVISED -
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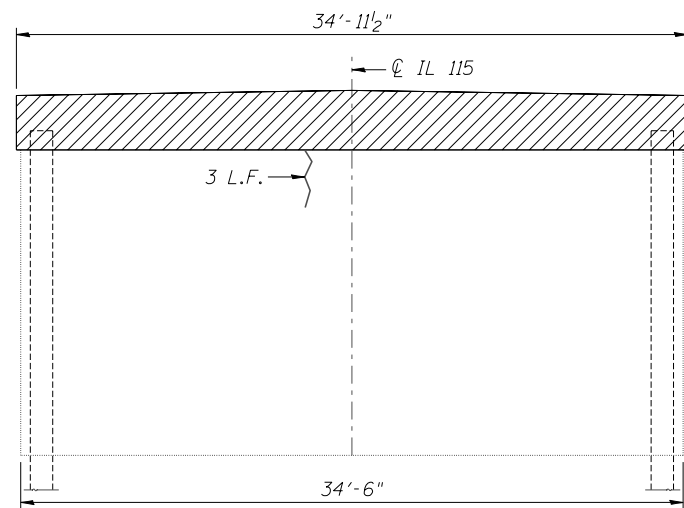
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT REPAIRS
S.N. 027-0073**

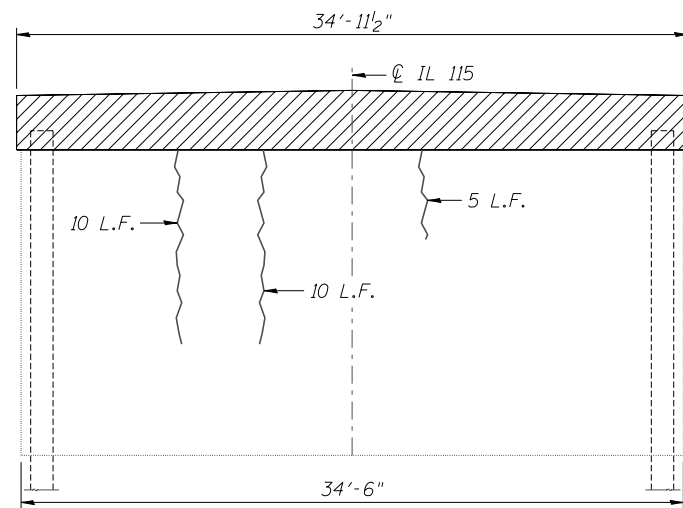
SHEET NO. SB-12 OF SB-13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	31
CONTRACT NO. 66980				

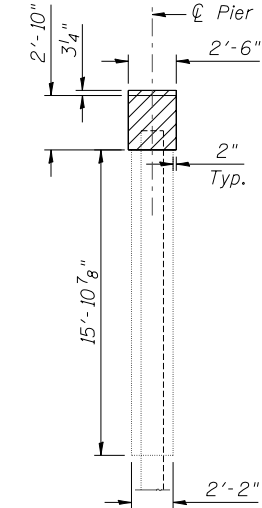
ILLINOIS FED. AID PROJECT



PIER 1 NORTH ELEVATION



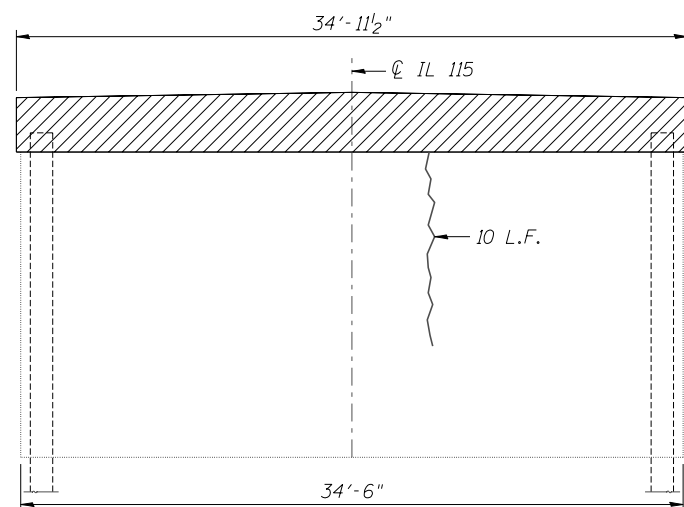
PIER 2 NORTH ELEVATION



TYPICAL END VIEW

TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p ₁₀₀ (E)	12	#7	34'-10"	—
s ₁₀₀ (E)	76	#4	10'-1"	□
u ₁₀₀ (E)	12	#6	8'-1"	□
v ₁₀₂ (E)	140	#5	4'-2"	—
Reinforcement Bars, Epoxy Coated			Pound	2,120
Concrete Removal			Cu. Yd.	19.2
Concrete Structures			Cu. Yd.	19.4
Epoxy Crack Injection			Foot	38



PIER 1 SOUTH ELEVATION

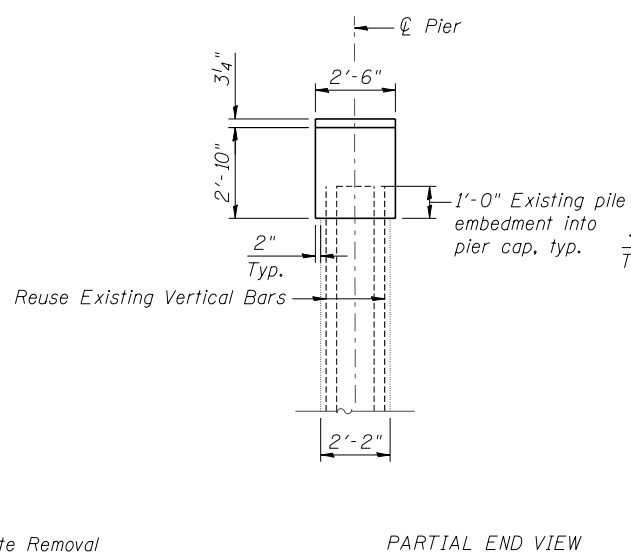
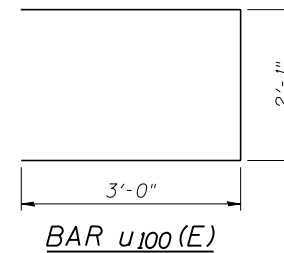
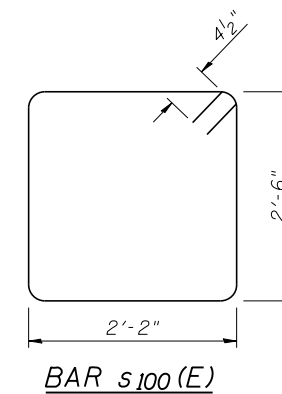
Notes:

Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

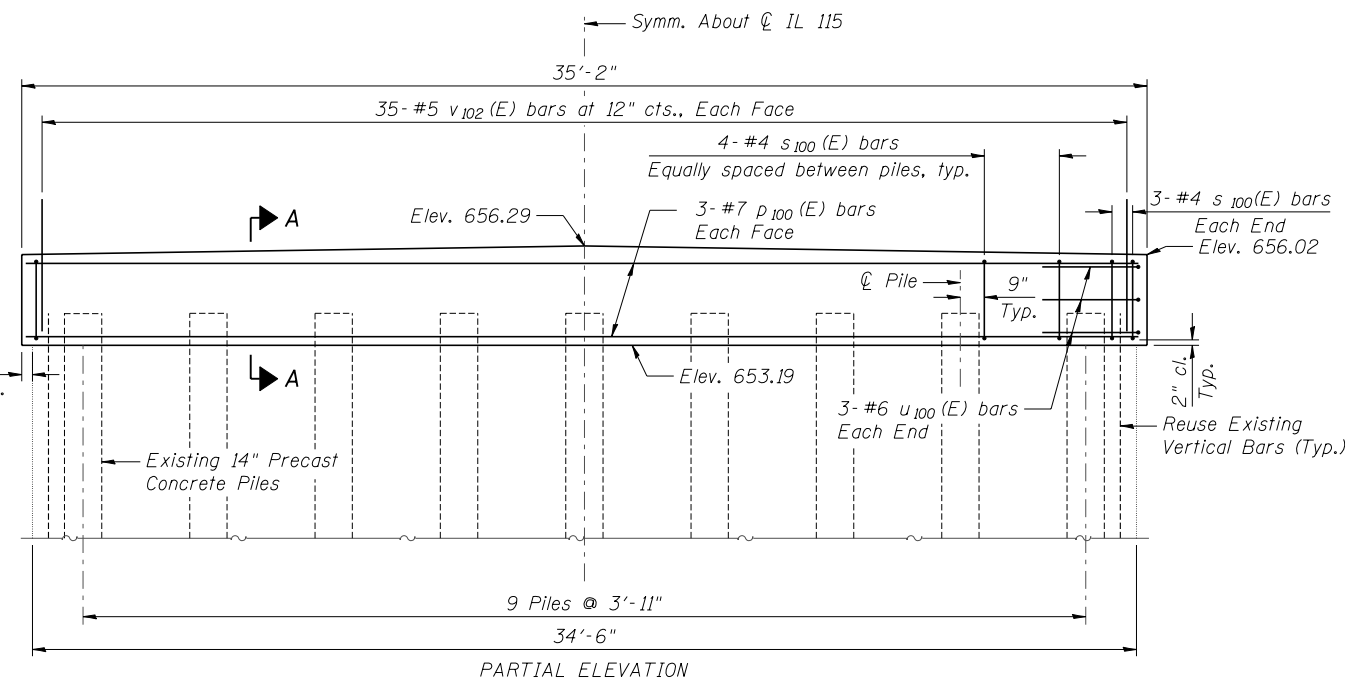
No repairs are required on the south elevation of Pier 2.

Repairs shown are based upon observations performed at the time of plan preparation and are for bidding purposes only. Actual areas to be repaired shall be determined by the Field Engineer at the time of construction.

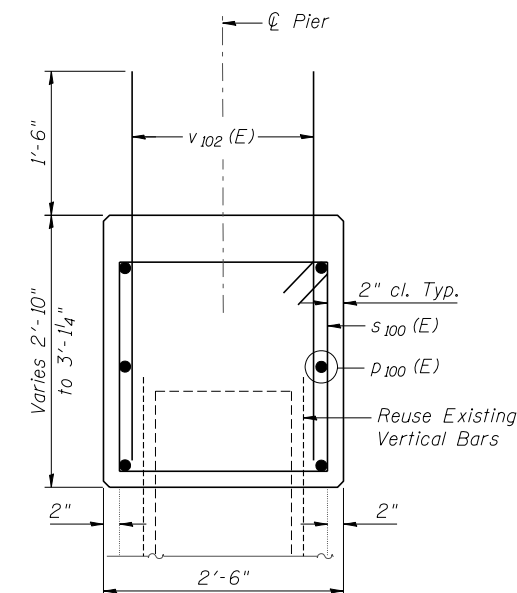
Where existing precast concrete piles are to extend from the remaining portion of the existing structure into new construction, the concrete shall be removed so as to leave the projecting piles clean and undamaged. The newly exposed piles to be incorporated into new concrete shall be blast-cleaned. Cost included with Concrete Removal.



PARTIAL END VIEW



PARTIAL ELEVATION



SECTION A-A

LEGEND

- Concrete Removal
- Epoxy Crack Injection

PIER CAP REPLACEMENT, TYP.

FILE NAME = ...G65980-SN0270073-013-PierRepor-a.dgn



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PLOT SCALE = 0:2.0000 '1' / IN.	CHECKED - JLA	REVISED -
PLOT DATE = 10/30/2012	DRAWN - SAW	REVISED -
	CHECKED - PM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER MODIFICATIONS
S.N. 027-0073

SHEET NO. SB-13 OF SB-13 SHEETS

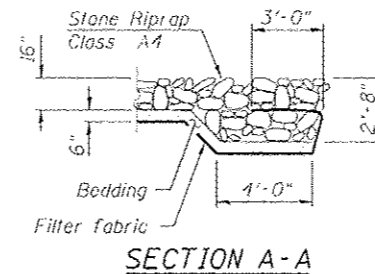
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	32
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

Bench Mark: Cut "C" top NW wingwall Sta. 1740+69.68, 18.8' RI., Elev. 659.79

Existing Structure: S.N. 027-0072 originally constructed in 1961 as FA Route 796, Section 106 BR-4. Three simple span bridge constructed of 17" PPC Deck Beams supported on pile bent abutments and solid wall enclosed pile piers. Bk. to Bk. of abutment is 106'-9 3/8" and out to out width is 36'-0".

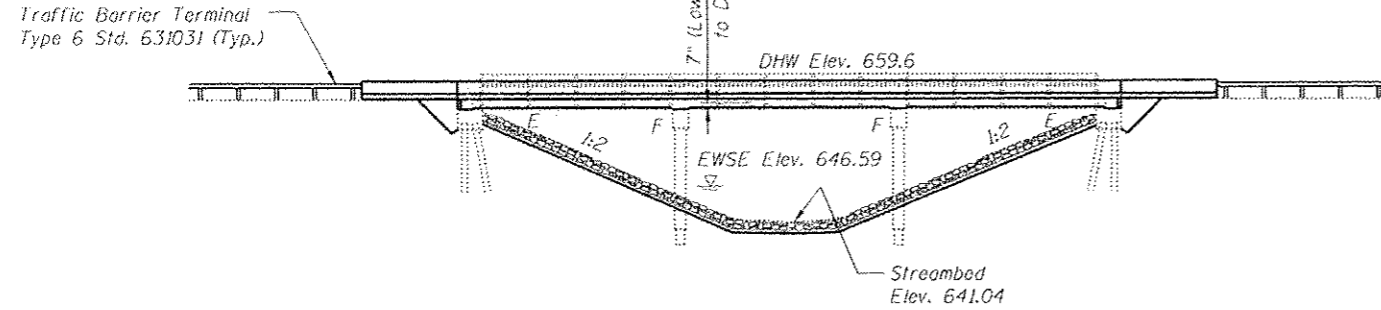
Existing superstructure shall be removed and replaced. Traffic shall be detoured during construction.

The Structural Steel Supports under SN 027-0072 (as shown in the roadway plans) shall be the only items that shall be salvaged. These supports shall be brought to the Astikum maintenance yard-see Special Provisions.



SCOPE OF WORK

1. Remove existing PPC Deck Beams and replace with a continuous, three-span reinforced concrete slab.
2. Remove and replace approach slabs.
3. Remove and replace each abutment backwall.
4. Repair abutment stems and pier pile encasements.
5. Replace rip rap.
6. Replace embankment and wall drains behind abutment stems.



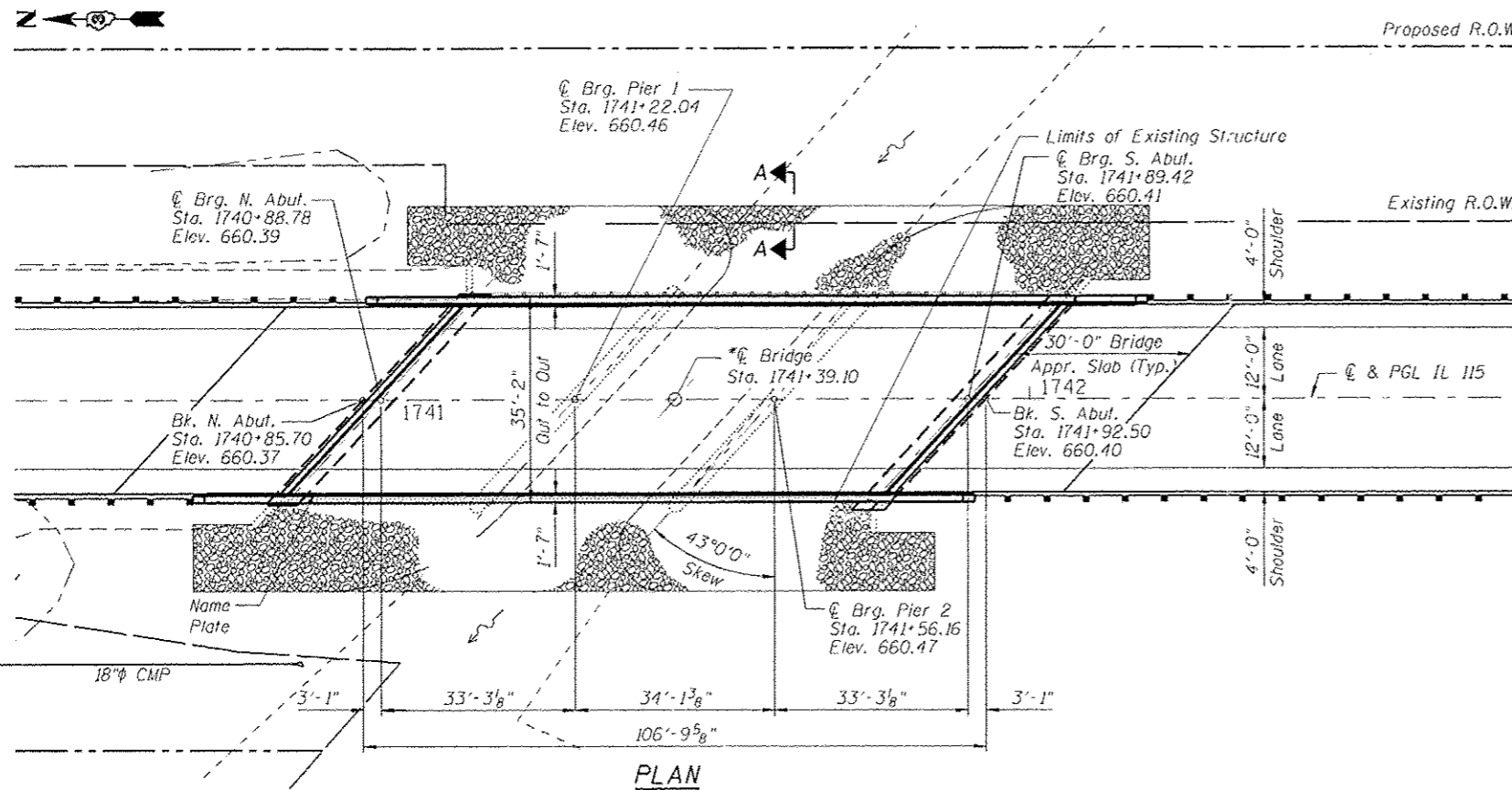
ELEVATION

* Bridge based on field survey dated May 2009



Signature: *[Signature]* Date: 10-31-12
 Expires: November 30, 2014

APPROVED
 For Structural Adequacy Only
[Signature]
 Engineer of Bridges & Structures



PLAN

WATERWAY INFORMATION

Drainage Area = 35.6 sq. mi. Exist. Low Grade Elev. = 656.86 @ Sta. 1734+00
 Prop. Low Grade Elev. = 656.86 @ Sta. 1734+00

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Not. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	4710	644	672	659.6	0.7	0.6	660.3	660.3
Base	100	5490	642	670	660.2	0.5	0.4	660.6	660.6
Overtopping	5	2210	N/A	N/A	657.1	0.2	0.1	657.3	657.2
Max. Calc.	500	7370	640	669	660.5	0.5	0.5	661.0	661.0

10-Year Velocity through Existing Bridge = 5.0 fps
 10-Year Velocity through Proposed Bridge = 5.0 fps

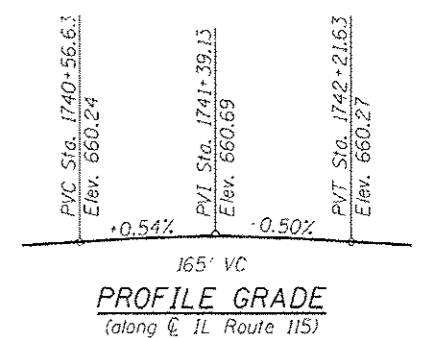
LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS
 2010 AASHTO LRFD Bridge Design Specifications With 2010 Interims

DESIGN STRESSES

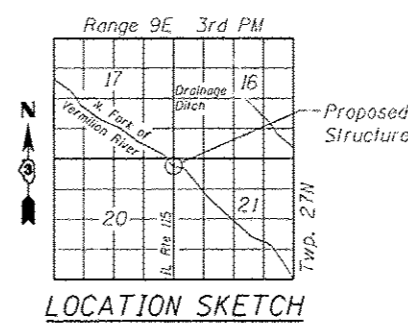
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

SEISMIC DATA
 SPC = A
 $A = 0.0439$
 $S = 1.2$



DESIGN SCOUR ELEVATION TABLE

	N. Abut.	Pier 1	Pier 2	S. Abut.
0100	655.5	635.0	635.0	655.4
0500	655.5	635.6	635.6	655.4



LOCATION SKETCH

GENERAL PLAN
 IL 115 OVER N. FORK OF VERMILION RIVER
 FAP 796
 SEC. (106 BR-1 & BR-4)BR
 FORD COUNTY
 STA. 1741+39.10
 STRUCTURE NO. 027-0072



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PL01 DATE = 10/30/2012	DRAWN = SAW	REVISED =
	CHECKED = LAS	REVISED =

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
 S.N. 027-0072
 SHEET NO. SA-01 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	33
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu Yd		62	62
Stone Riprap, Class A4	Sq Yd		829	829
Filter Fabric	Sq Yd		829	829
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu Yd		5.4	5.4
Structure Excavation	Cu Yd		70	70
Concrete Structures	Cu Yd		35.1	35.1
Concrete Superstructure	Cu Yd	325.3		325.3
Bridge Deck Grooving	Sq Yd	554		554
Protective Coat	Sq Yd	709		709
Reinforcement Bars, Epoxy Coated	Pound	106,530	6,660	113,190
Name Plates	Each			1
Preformed Joint Strip Seal	Foot	92		92
Epoxy Crack Injection	Foot		115	115
Geocomposite Wall Drain	Sq Yd		40	40
Asbestos Bearing Pad Removal	Each		18	18
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq Ft		7	7
Pipe Underdrains For Structures, 4"	Foot		146	146

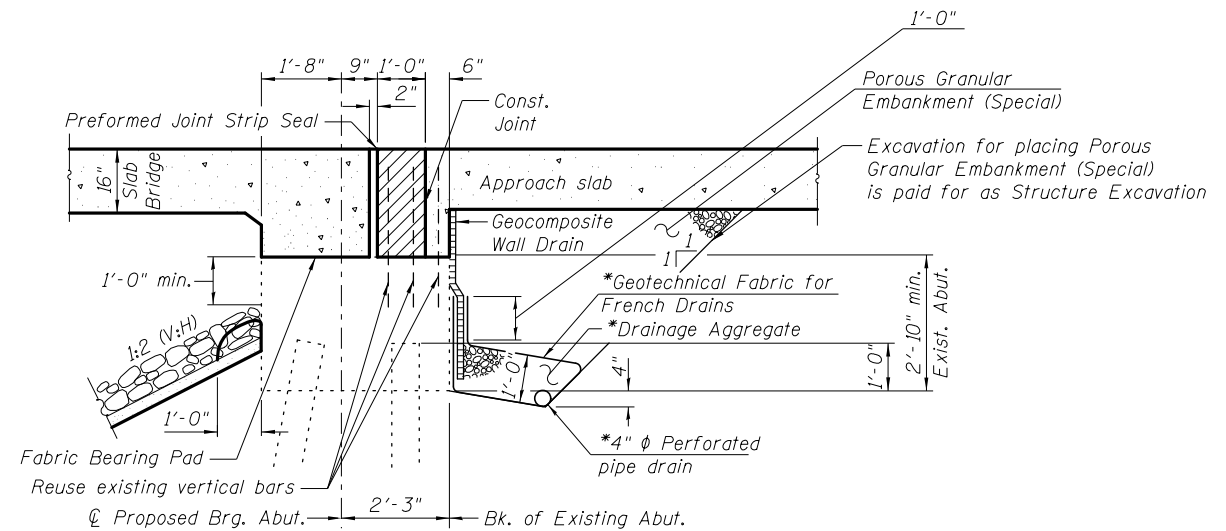
INDEX OF SHEETS

- SA-01. General Plan
- SA-02. General Data
- SA-03. Top of Slab Elevations
- SA-04. North Approach Slab Elevations
- SA-05. South Approach Slab Elevations
- SA-06. Superstructure
- SA-07. Superstructure Details 1
- SA-08. Superstructure Details 2
- SA-09. Concrete Parapet Slipforming Option
- SA-10. Preformed Joint Strip Seal
- SA-11. Bridge Approach Slab Details
- SA-12. Bridge Approach Slab Details
- SA-13. North Abutment Repairs
- SA-14. South Abutment Repairs
- SA-15. Pier Repairs

STATION 1741+39.10
REBUILT 201 BY
STATE OF ILLINOIS
F.A.P. RT. 796
SEC. (106 BR-1 & BR-4)BR
LOADING HL-93
STR. NO. 027-0072

NAME PLATE
See Std. 515001

Existing Name Plate shall be cleaned and relocated next to the new Name Plate. Cost included with Name Plates.



SECTION THRU ABUTMENT
(Horizontal dimensions are at right angles)

* Included in the cost of Pipe Underdrains for Structures.

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).

GENERAL DATA
STRUCTURE NO. 027-0072

FILE NAME = \$FILEL\$



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = \$USER\$	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

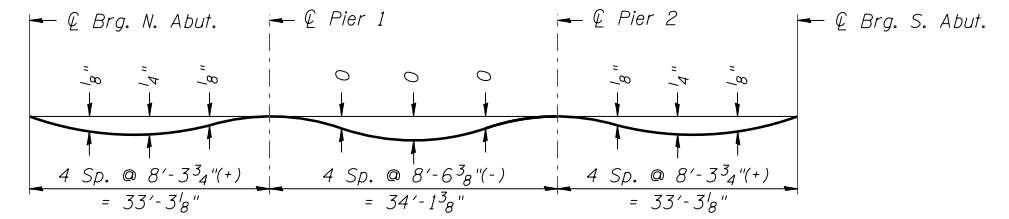
GENERAL DATA
S.N. 027-0072

SHEET NO. SA-02 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	34
CONTRACT NO. 66980			ILLINOIS FED. AID PROJECT	

CL ROADWAY & PGL

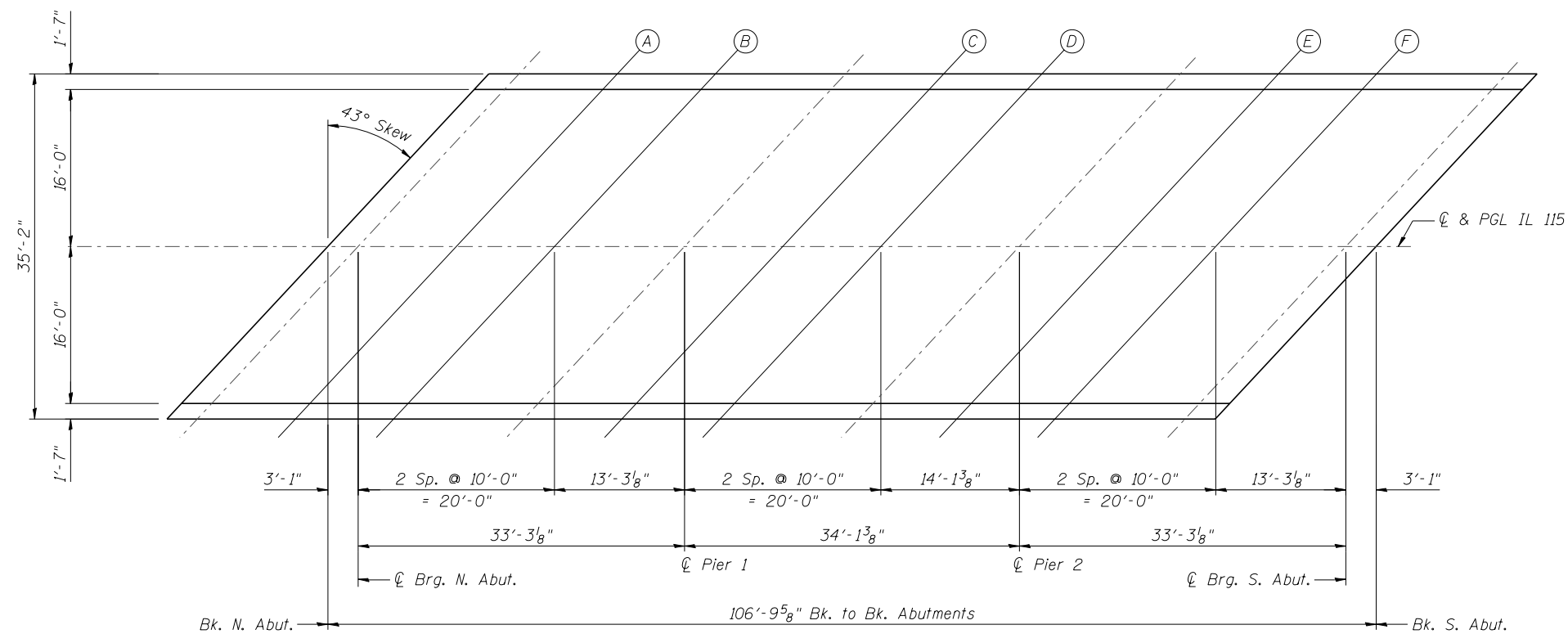
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	1740+85.70	0.00	660.37	660.37
CL Brg N Abut.	1740+88.78	0.00	660.39	660.39
A	1740+98.78	0.00	660.42	660.43
B	1741+08.78	0.00	660.44	660.46
CL Pier 1	1741+22.04	0.00	660.46	660.46
C	1741+32.04	0.00	660.47	660.47
D	1741+42.04	0.00	660.48	660.48
CL Pier 2	1741+56.16	0.00	660.47	660.47
E	1741+66.16	0.00	660.46	660.47
F	1741+76.16	0.00	660.44	660.46
CL Brg S. Abut.	1741+89.42	0.00	660.41	660.41
Bk. S. Abut.	1741+92.50	0.00	660.40	660.40



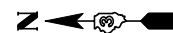
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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 in table.



PLAN



**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 027-0072**

FILE NAME = ...665980-SN0270072-003-TopSlabElev.dgn



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

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PLOT SCALE = 0:2.0000 ' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 10/30/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
S.N. 027-0072**

SHEET NO. SA-03 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	35
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

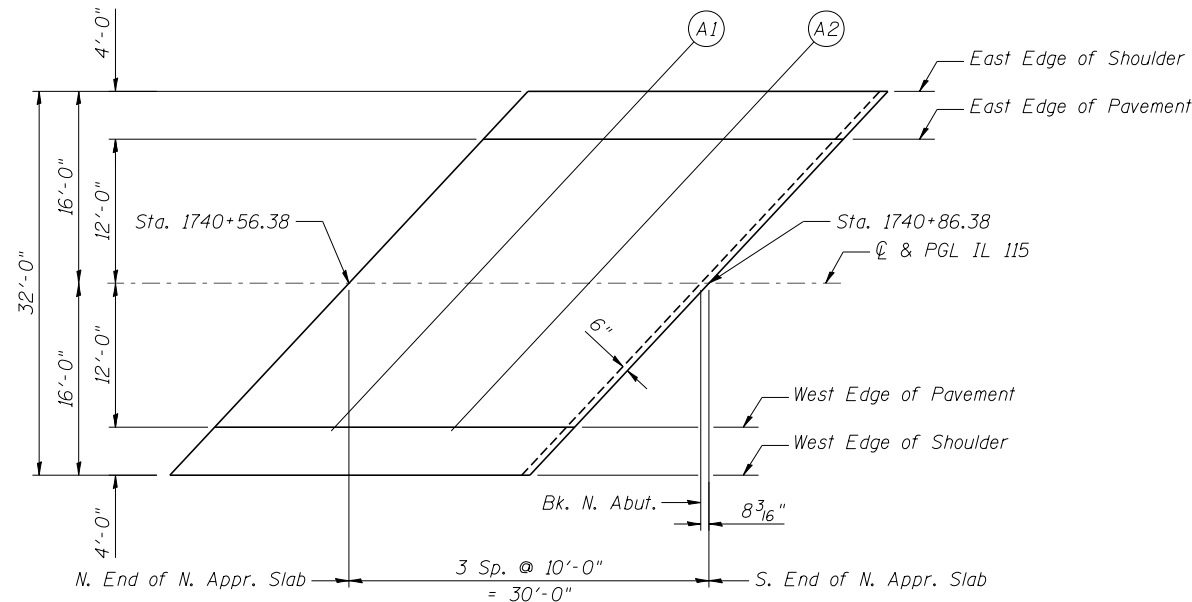
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmf.	1740+71.30	-16.00	660.05
A1	1740+81.30	-16.00	660.09
A2	1740+91.30	-16.00	660.12
S. End North Appr. Pvmf.	1741+01.30	-16.00	660.15

EAST EDGE OF PAVEMENT

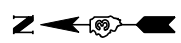
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmf.	1740+67.57	-12.00	660.11
A1	1740+77.57	-12.00	660.16
A2	1740+87.57	-12.00	660.19
S. End North Appr. Pvmf.	1740+97.57	-12.00	660.23

CL ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmf.	1740+56.38	0.00	660.24
A1	1740+66.38	0.00	660.29
A2	1740+76.38	0.00	660.34
S. End North Appr. Pvmf.	1740+86.38	0.00	660.38



PLAN



WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmf.	1740+45.19	12.00	660.00
A1	1740+55.19	12.00	660.05
A2	1740+65.19	12.00	660.10
S. End North Appr. Pvmf.	1740+75.19	12.00	660.15

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Pvmf.	1740+41.46	16.00	659.89
A1	1740+51.46	16.00	659.95
A2	1740+61.46	16.00	660.00
S. End North Appr. Pvmf.	1740+71.46	16.00	660.05

NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 027-0072

FILE NAME = ...665980-SN0270072-004-NApprSlabElev.dgn



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PLOT SCALE = 0:2.0000 '1' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 10/30/2012	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH APPROACH SLAB ELEVATIONS
S.N. 027-0072

SHEET NO. SA-04 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	36
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

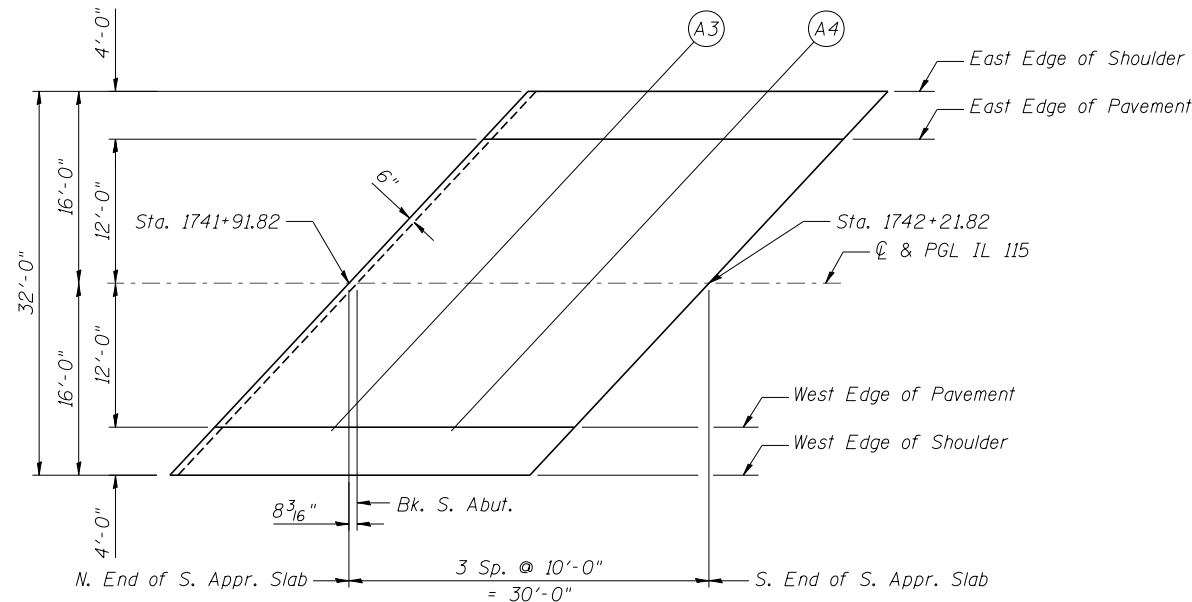
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmf.	1742+06.74	-16.00	660.07
A3	1742+16.74	-16.00	660.03
A4	1742+26.74	-16.00	659.98
S. End South Appr. Pvmf.	1742+36.74	-16.00	659.93

EAST EDGE OF PAVEMENT

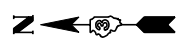
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmf.	1742+03.01	-12.00	660.17
A3	1742+13.01	-12.00	660.13
A4	1742+23.01	-12.00	660.08
S. End South Appr. Pvmf.	1742+33.01	-12.00	660.03

CL ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmf.	1741+91.82	0.00	660.40
A3	1742+01.82	0.00	660.36
A4	1742+11.82	0.00	660.32
S. End South Appr. Pvmf.	1742+21.82	0.00	660.28



PLAN



WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmf.	1741+80.63	12.00	660.24
A3	1741+90.63	12.00	660.22
A4	1742+00.63	12.00	660.18
S. End South Appr. Pvmf.	1742+10.63	12.00	660.14

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Pvmf.	1741+76.90	16.00	660.17
A3	1741+86.90	16.00	660.14
A4	1741+96.90	16.00	660.11
S. End South Appr. Pvmf.	1742+06.90	16.00	660.07

SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 027-0072

FILE NAME = ...665980-SN0270072-005-SApprSlabElev.dgn



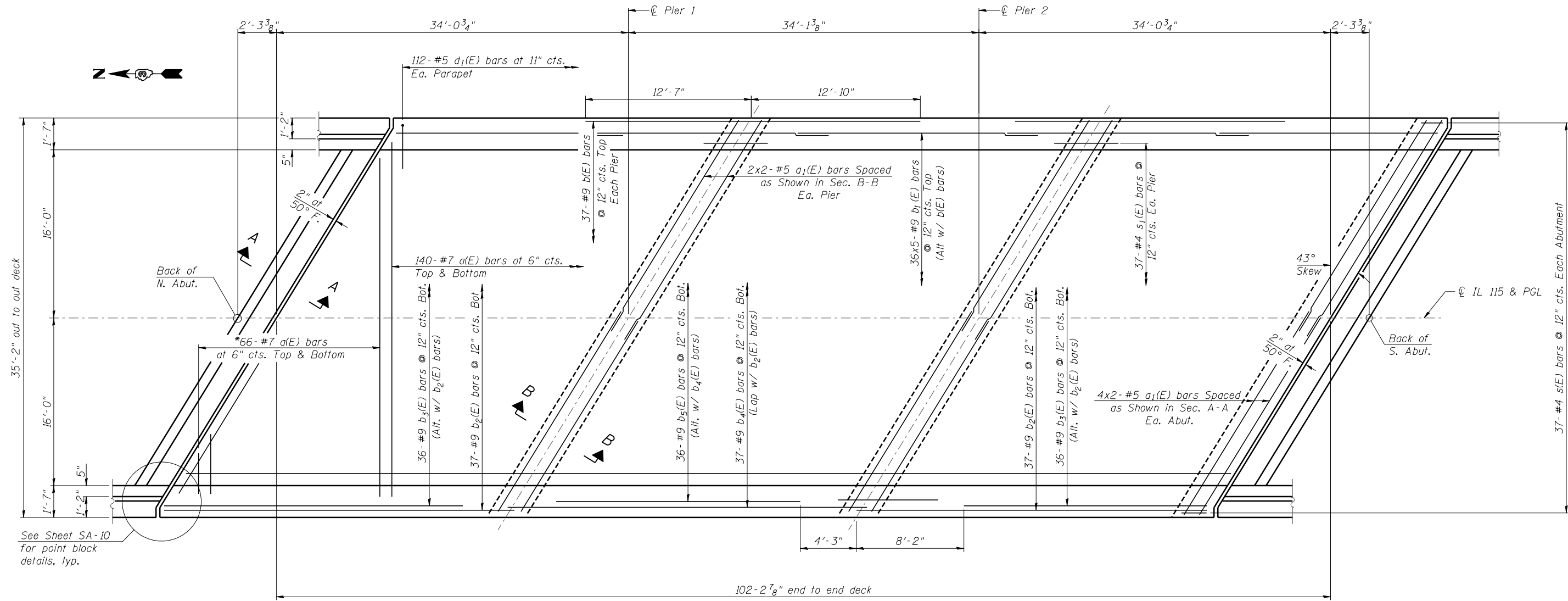
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PLOT SCALE = 0:2.0000 ' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 10/30/2012	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH APPROACH SLAB ELEVATIONS
S.N. 027-0072

SHEET NO. SA-05 OF SA-15 SHEETS

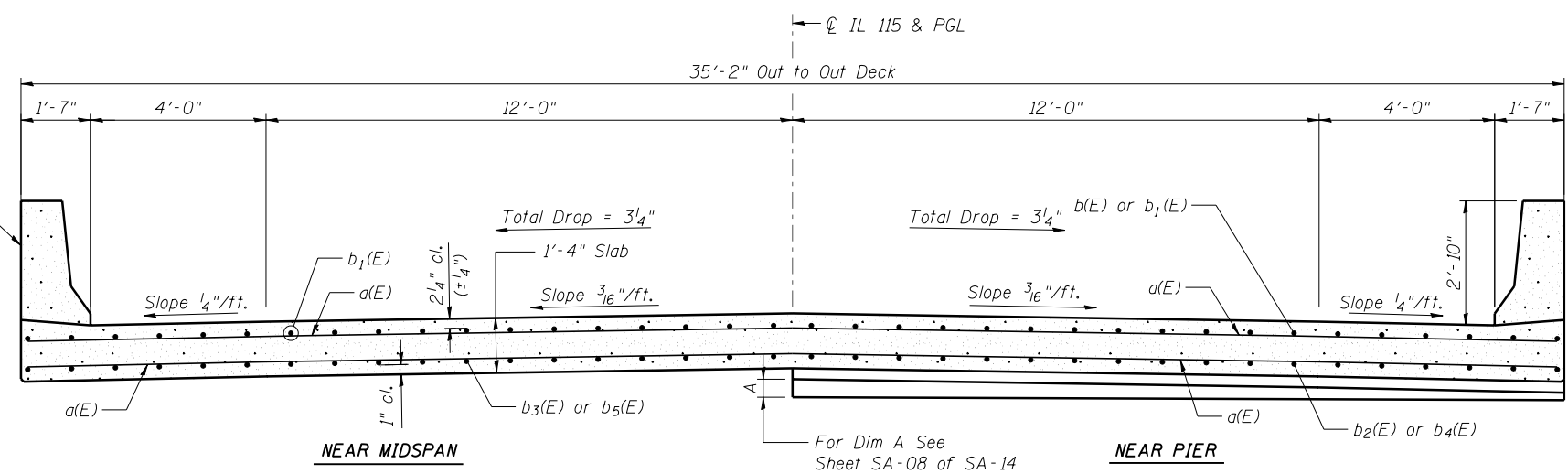
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66980	



PLAN

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

Notes:
See Sheet SA-08 of SA-15 for superstructure details
and Bill of Material.
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars
with 2 lengths per line.
See Sheet SA-07 of SA-15 for parapet reinforcement.
See Sheet SA-08 of SA-15 for Sections A-A and B-B.
Dimensions are based on a Rolled Rail Strip Seal Joint. If
the Contractor elects to use the Welded Rail Strip Seal
Joint, deck dimensions may require adjustments to satisfy
the details on Base Sheet EJ-SSJ.



CROSS SECTION
(Looking South)

MINIMUM BAR LAP

#5 bar = 2'-3"
#9 bar = 5'-11"

**SUPERSTRUCTURE
STRUCTURE NO. 027-0072**

FILE NAME = ...665980-SN0270072-006-Superstructure.dgn



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PLOT SCALE = 0:2.0000 ' / IN.	CHECKED - DAZ	REVISED -
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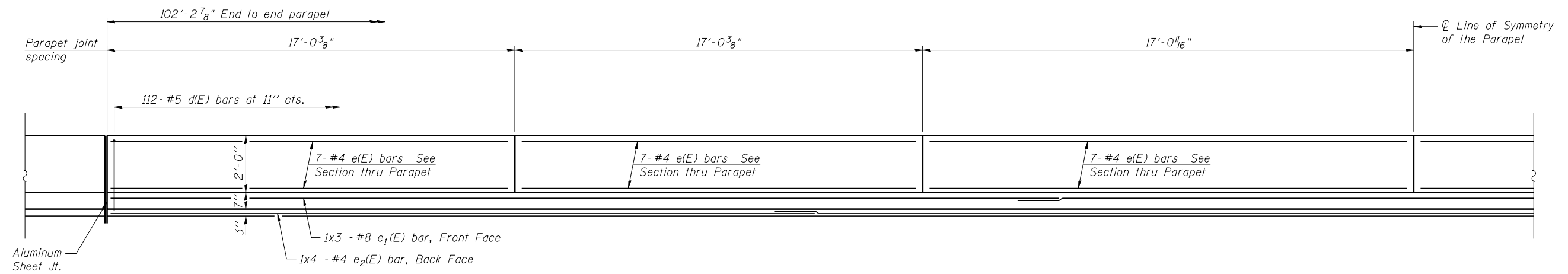
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE
S.N. 027-0072**

SHEET NO. SA-06 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	38
CONTRACT NO. 66980				

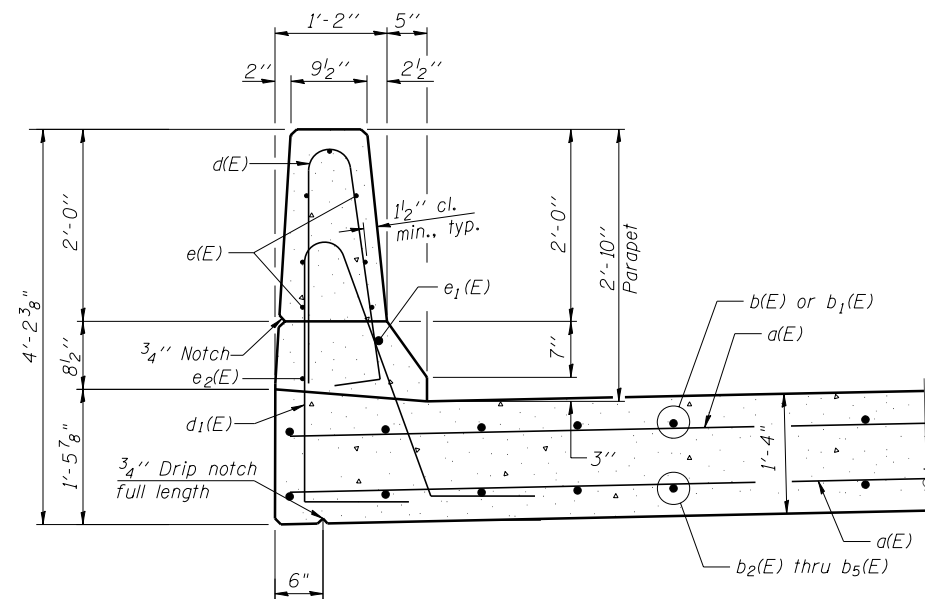
ILLINOIS FED. AID PROJECT



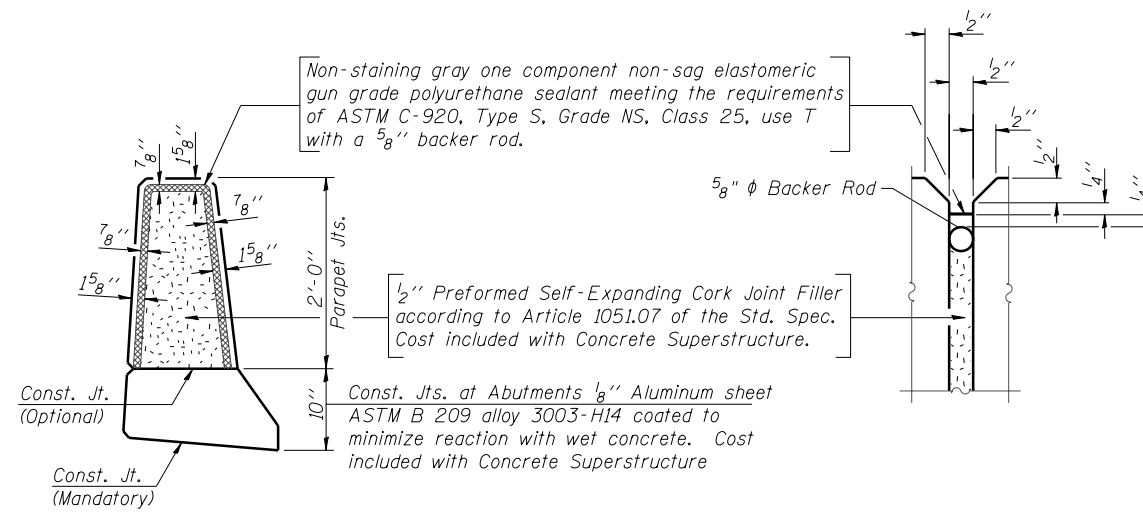
INSIDE ELEVATION OF PARAPET
(East Parapet Shown, West Parapet Similar, Opposite Hand)

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



SECTION THRU PARAPET



PARAPET JOINT DETAILS

SUPERSTRUCTURE DETAILS 1
STRUCTURE NO. 027-0072

FILE NAME = ...G659B0-SN0270072-007-SupDet1.dgn



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Chicago, IL 60613

USER NAME = SAW	DESIGNED - LAS	REVISED -
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STATE OF ILLINOIS
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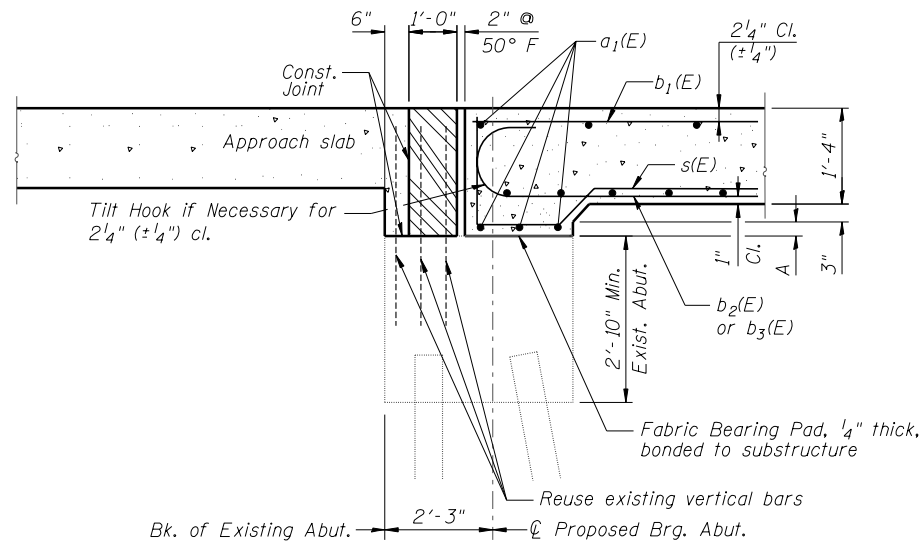
SUPERSTRUCTURE DETAILS 1
S.N. 027-0072

SHEET NO. SA-07 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	39
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

**SUPERSTRUCTURE
BILL OF MATERIAL**

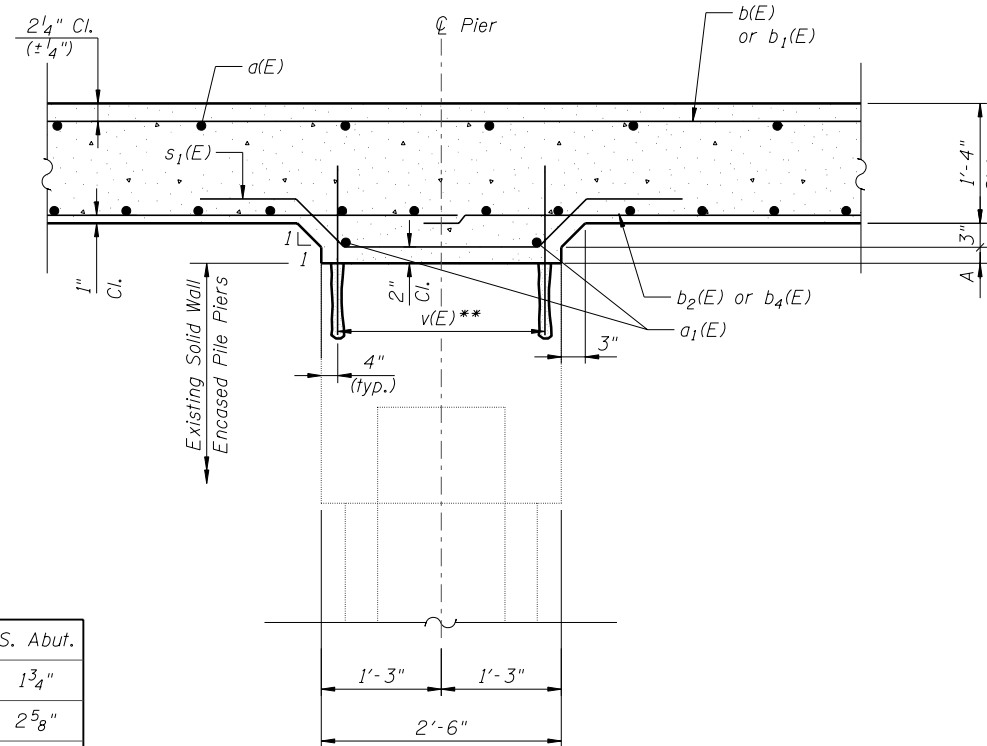
Bar	No.	Size	Length	Shape
a(E)	412	#7	34'-10"	—
a ₁ (E)	24	#5	25'-0"	—
b(E)	74	#9	25'-5"	—
b ₁ (E)	180	#9	25'-2"	—
b ₂ (E)	74	#9	36'-1"	U
b ₃ (E)	72	#9	27'-6"	U
b ₄ (E)	37	#9	35'-2"	—
b ₅ (E)	36	#9	25'-8"	—
d(E)	224	#5	5'-7"	U
d ₁ (E)	224	#5	7'-11"	U
e(E)	84	#4	16'-8"	—
e ₁ (E)	6	#8	37'-6"	—
e ₂ (E)	8	#4	27'-1"	—
s(E)	74	#4	6'-3"	U
s ₁ (E)	74	#4	7'-1"	U
Reinforcement Bars, Epoxy Coated			Pound	80,630
Concrete Superstructure			Cu. Yds.	210.3



SECTION A-A

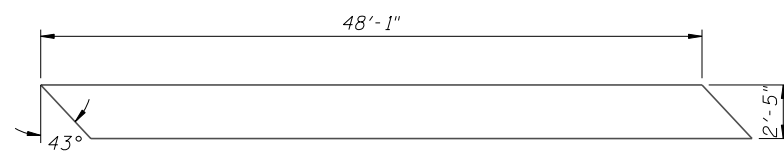
DIMENSION "A"

	N. Abut.	Pier 1	Pier 2	S. Abut.
East Edge of Bridge	1 ³ / ₈ "	2"	2 ¹ / ₄ "	1 ³ / ₄ "
℄ Roadway & PGL	1 ³ / ₄ "	2 ¹ / ₄ "	2 ⁵ / ₈ "	2 ⁵ / ₈ "
West Edge of Bridge	3 ⁴ / ₄ "	1 ⁵ / ₈ "	1 ³ / ₄ "	1 ³ / ₄ "



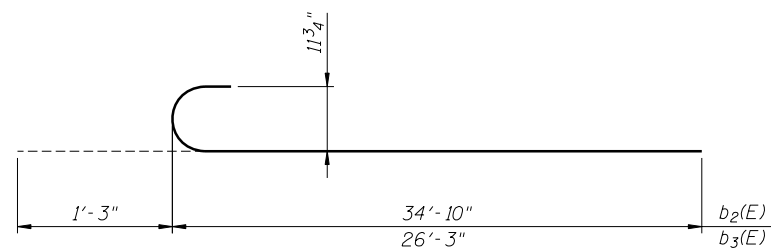
SECTION B-B

** v(E) bars filled with pier

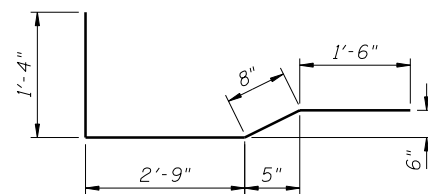


FABRIC BEARING PAD

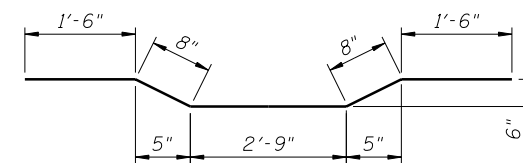
This work shall consist of furnishing and installing expansion bearings pads at the locations shown and as detailed on the plans. The materials shall be according to Section 1082 of the Standard Specifications. The cost of this work shall be included with Concrete Superstructures.



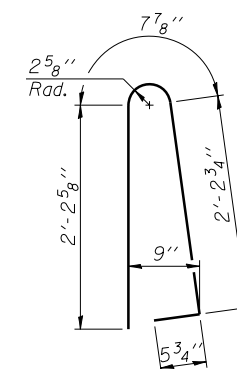
BARS b₂(E) & b₃(E)



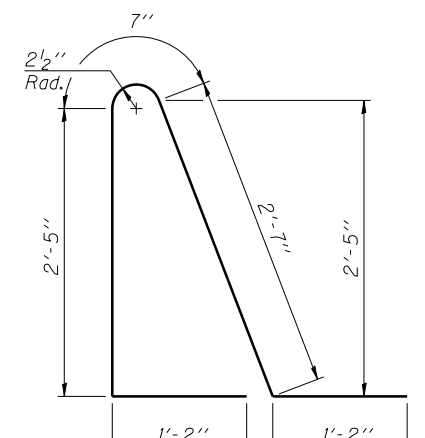
BAR s(E)



BAR s₁(E)



BAR d(E)



BAR d₁(E)

**SUPERSTRUCTURE DETAILS 2
STRUCTURE NO. 027-0072**

FILE NAME = ...665980-SN0270072-008-SupDet-2.dgn



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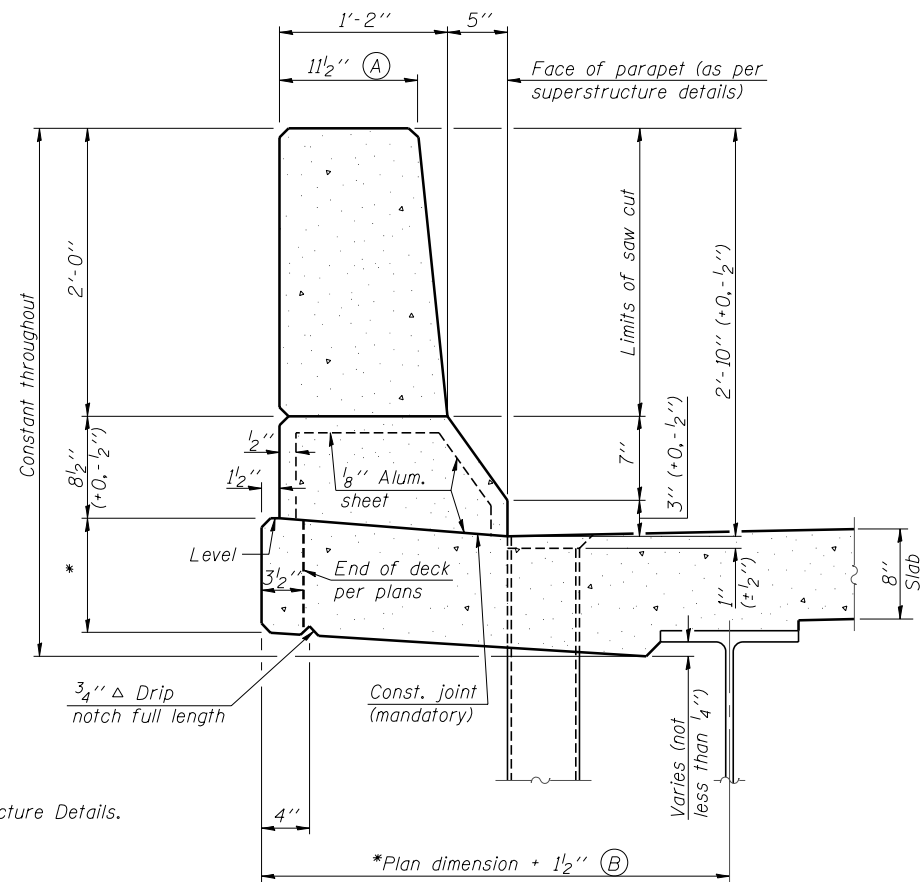
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**STATE OF ILLINOIS
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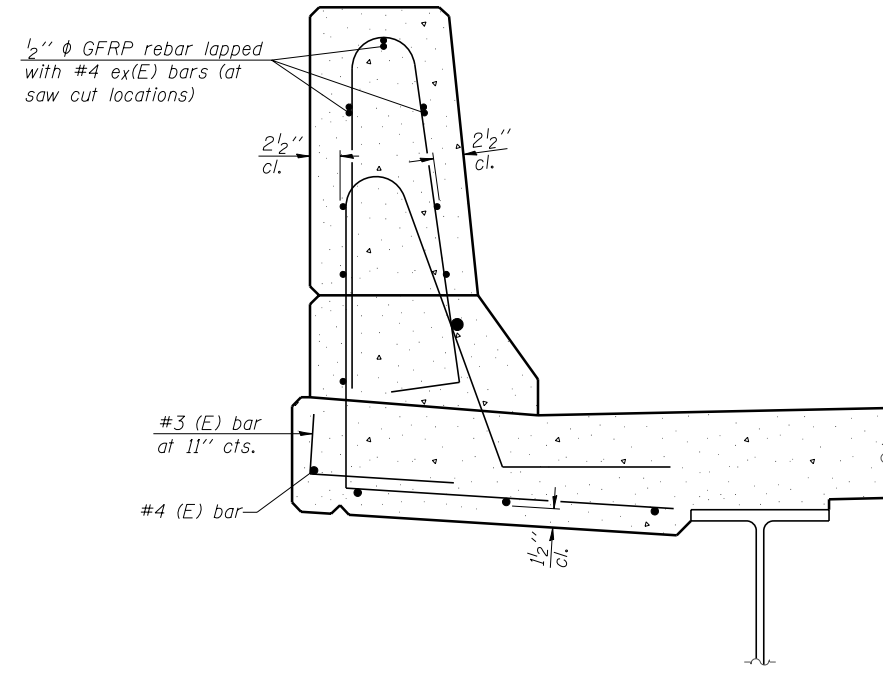
**SUPERSTRUCTURE DETAILS 2
S.N. 027-0072**

SHEET NO. SA-08 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	40
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

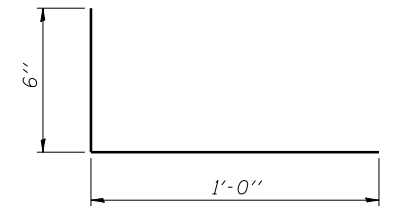


SECTION
(Showing dimensions)

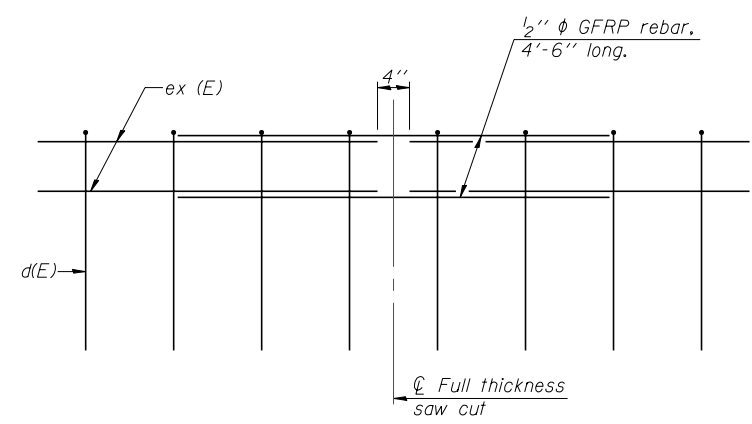


SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES
 All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete will be needed to revise dimensions A and B. No adjustment in quantity for payment will be allowed for this option. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 027-0072

SFP-34

7-1-10



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

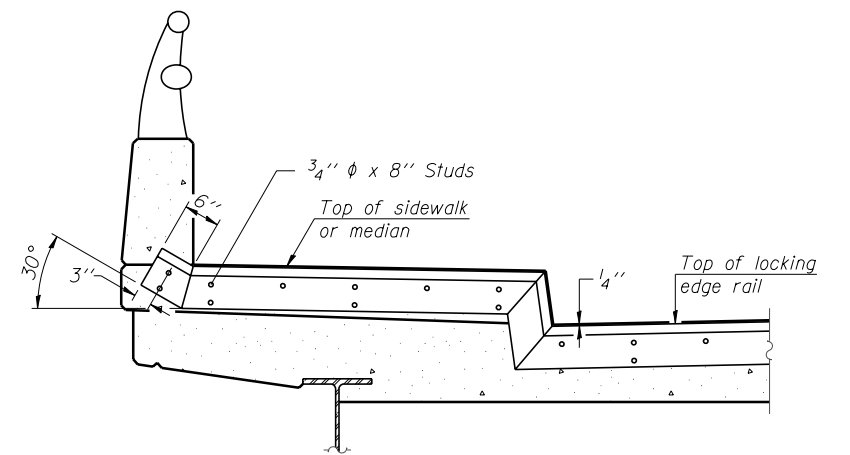
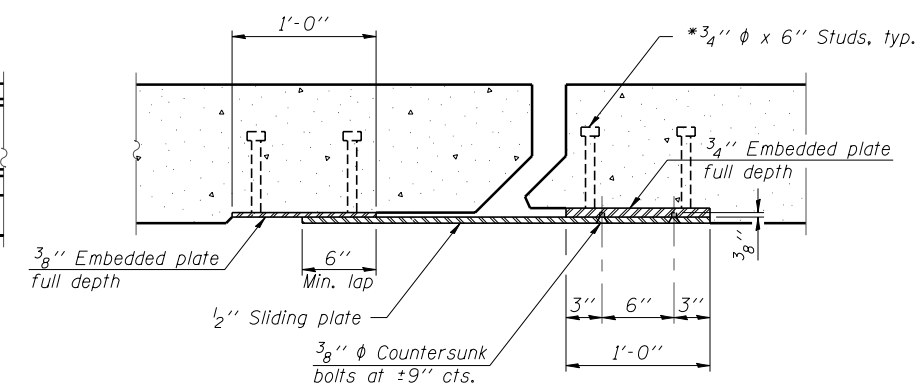
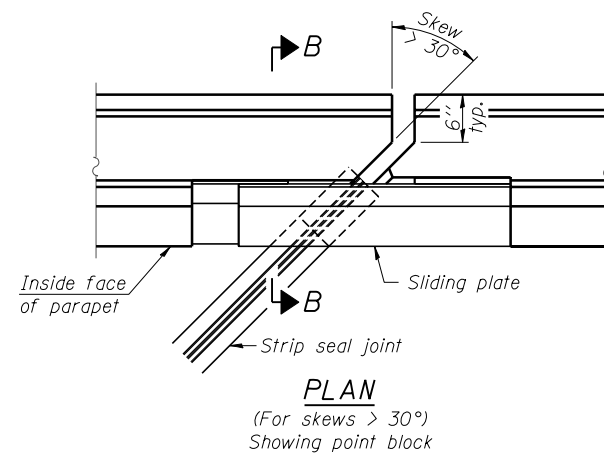
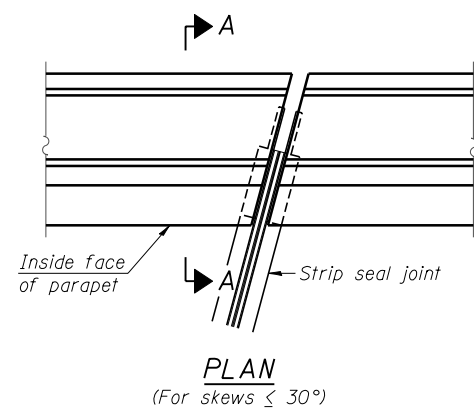
CONCRETE PARAPET SLIPFORMING OPTION
S.N. 027-0072

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	41
CONTRACT NO. 66980				

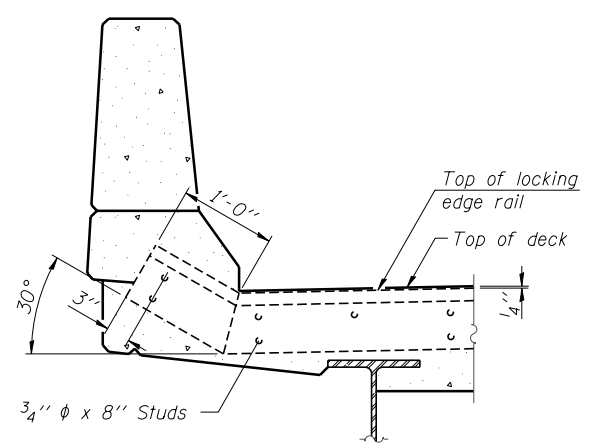
SHEET NO. SA-09 OF SA-15 SHEETS

ILLINOIS FED. AID PROJECT

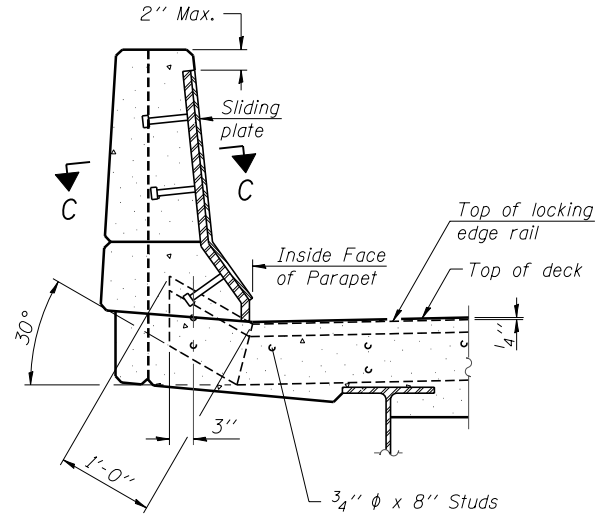
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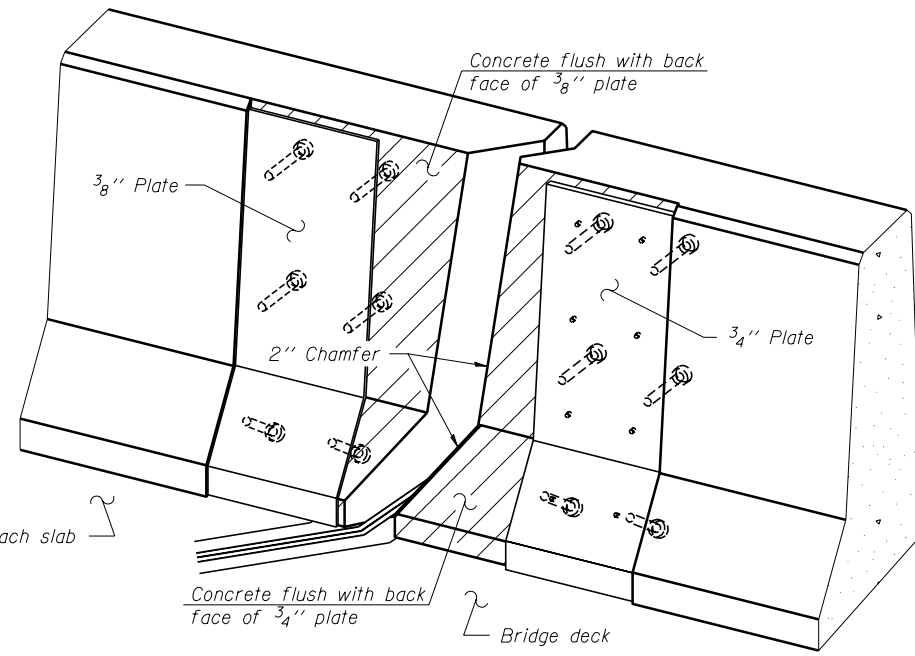
TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A

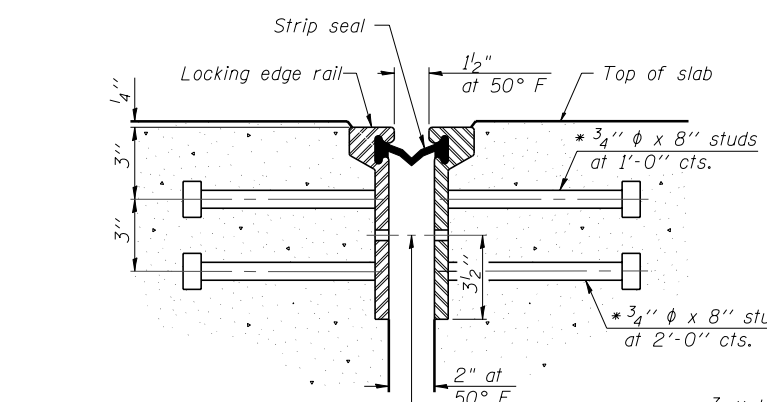


SECTION B-B

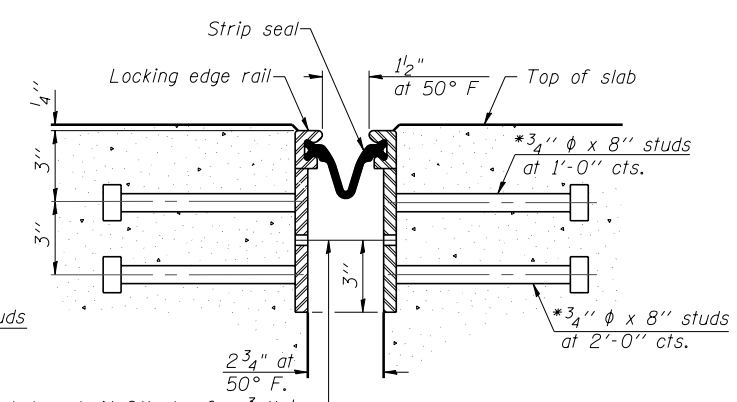


TRIMETRIC VIEW (Showing back plates only)

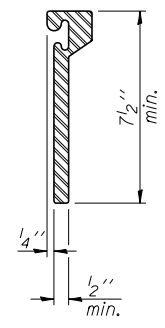
Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.
The manufacturer's recommended installation methods shall be followed.
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.
Parapet plates and anchorage studs for skews > 30 degrees included in the cost of Preformed Joint Strip Seal.



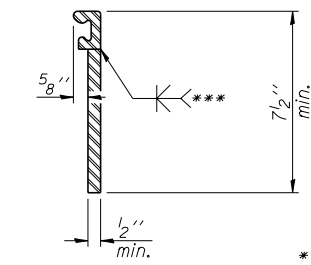
SECTION THRU ROLLED RAIL JOINT



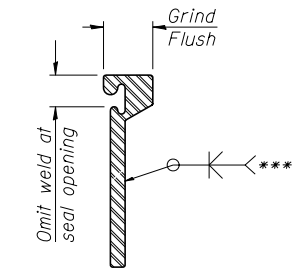
SECTION THRU WELDED RAIL JOINT



ROLLED EXTRUDED RAIL



WELDED RAIL



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.

*** Back gauge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	92

PREFORMED JOINT STRIP SEAL STRUCTURE NO. 027-0072

FILE NAME = ...665980-SN0270072-010-P.J.J.S.dgn

ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

EJ-SSJ 7-1-10

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PLOT SCALE = 0:2.0000 "/td> <td>CHECKED - DAZ</td> <td>REVISED -</td>	CHECKED - DAZ	REVISED -
PLOT DATE = 10/30/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL S.N. 027-0072

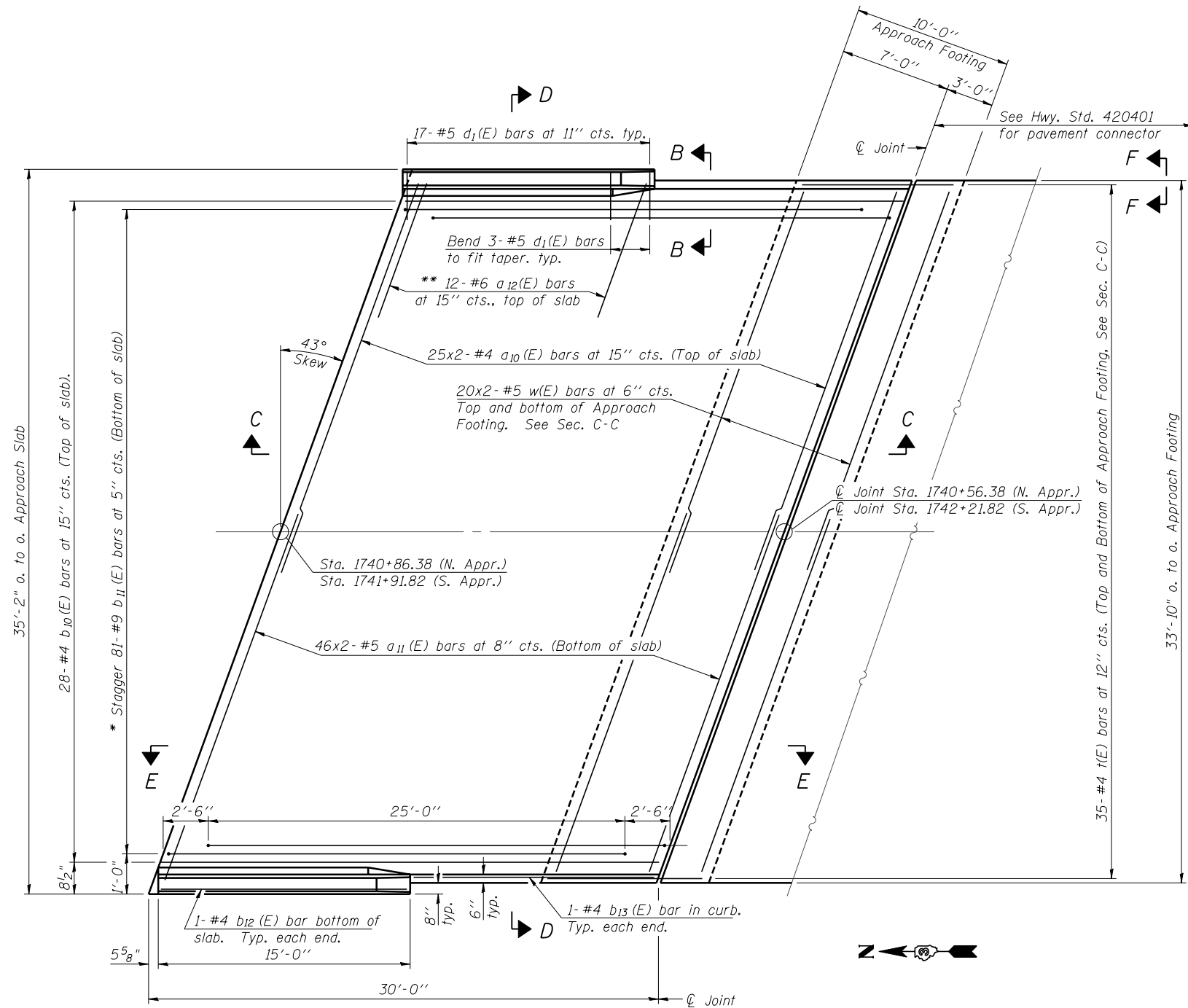
SHEET NO. SA-10 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	42
CONTRACT NO. 66980			ILLINOIS FED. AID PROJECT	

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

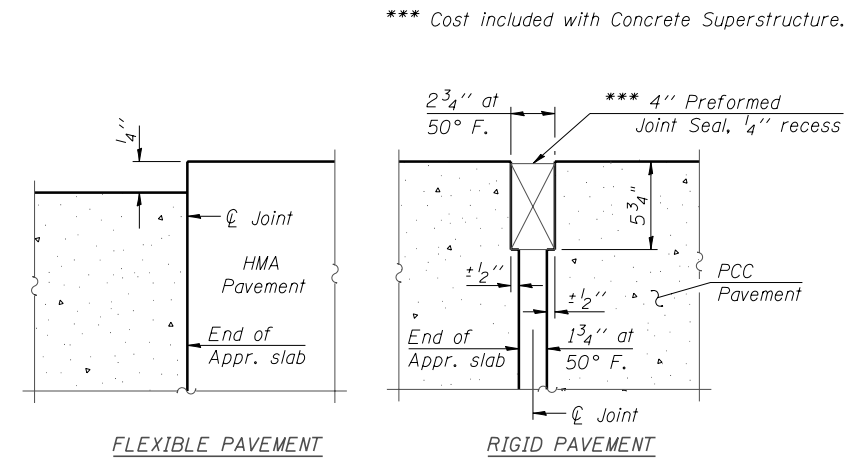
Notes:
See sheet SA-12 of SA-15 for Sections C-C & D-D and View E-E.
a₁₀(E) and a₁₁(E) bar spacings measured along \bar{C} Rdwy.

*** Cost included with Concrete Superstructure.

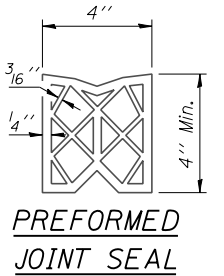


PLAN

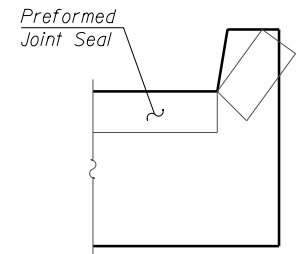
* Tilt #9 b₁₁(E) bars as required to maintain clearance.
** Space between a(E) bars, typ. each parapet.



DETAIL A

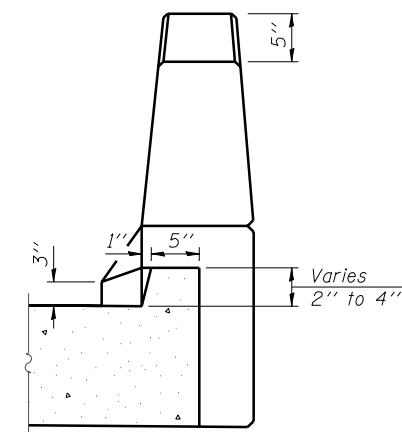


PREFORMED JOINT SEAL



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

MINIMUM BAR LAP

#4 bar = 1'-10"
#5 bar = 2'-3"

BA-L

7-1-10

(Sheet 1 of 2)



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PLOT DATE = 10/30/2012	DRAWN - SAW	REVISED -
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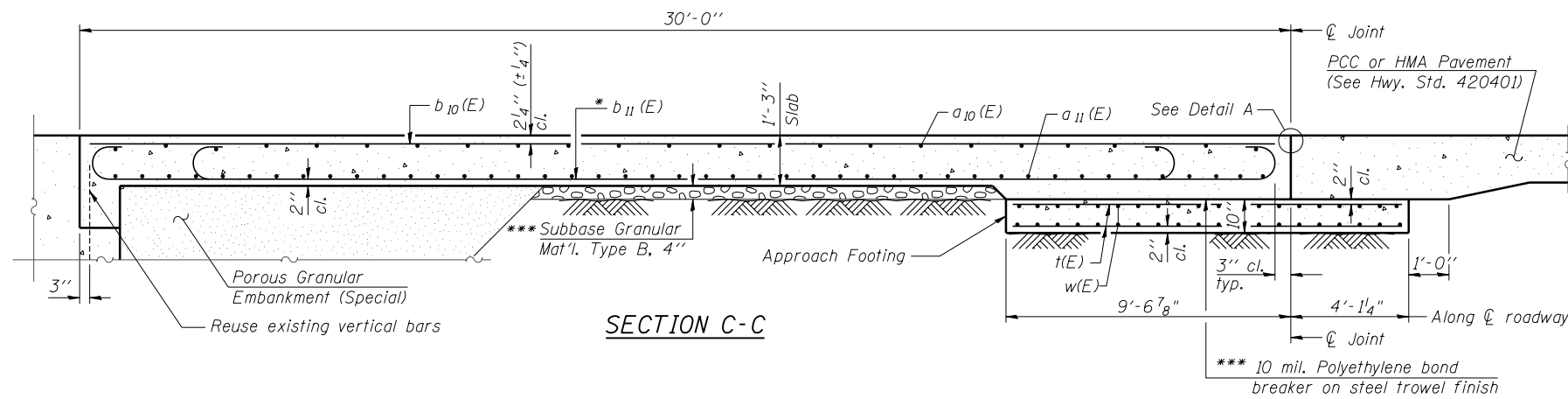
BRIDGE APPROACH SLAB DETAILS
S.N. 027-0072

SHEET NO. SA-11 OF SA-15 SHEETS

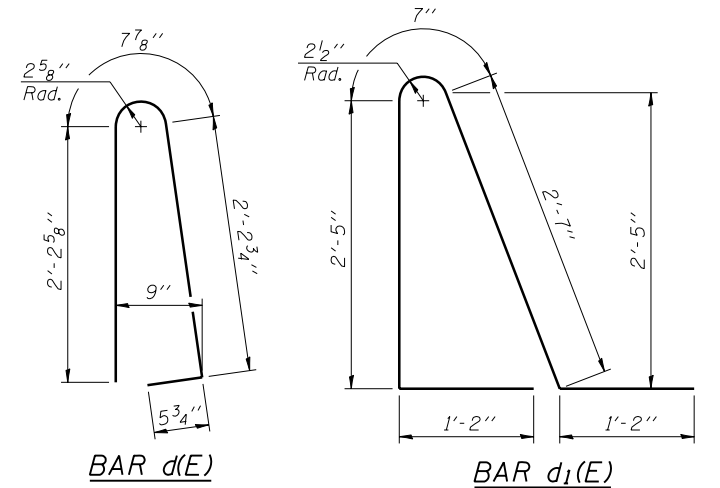
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 027-0072

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 66980	
ILLINOIS FED. AID PROJECT				

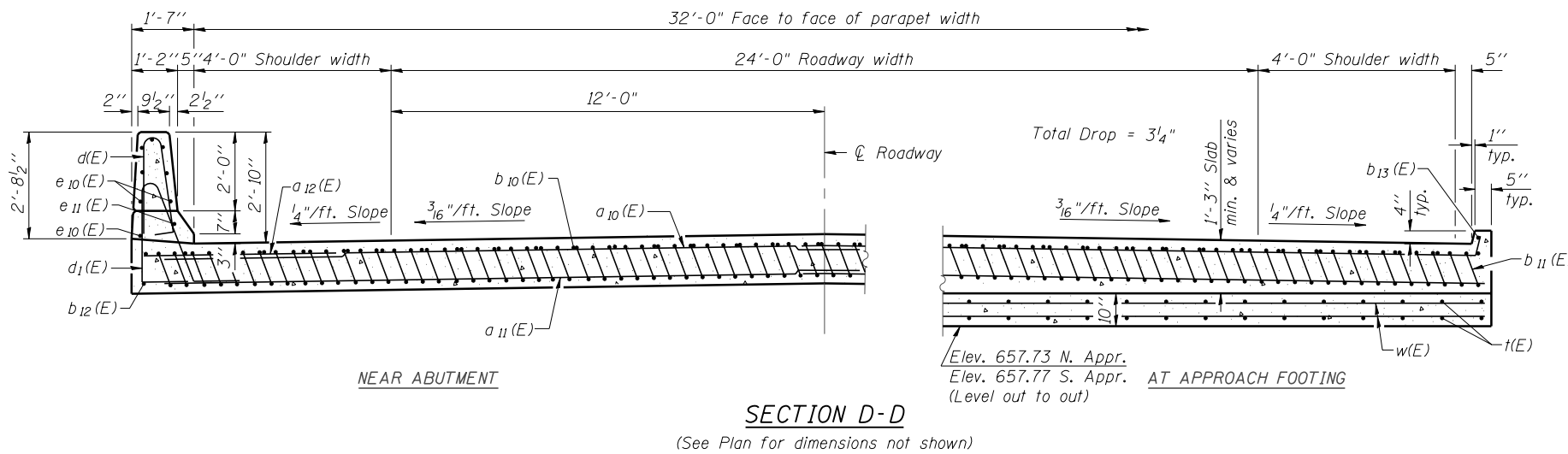
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Notes:
 See sheet SA-11 of SA-15 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet SA-02 of SA-15.
 For additional parapet details, see sheet SA-07 of SA-15.

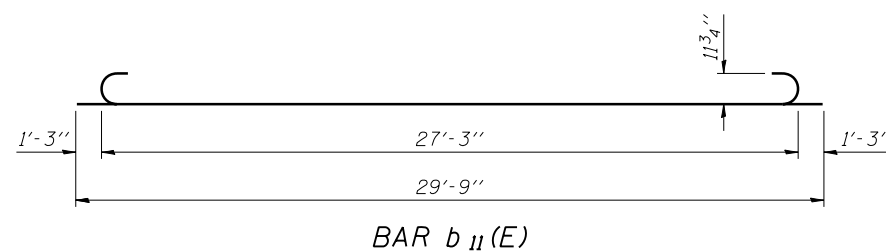
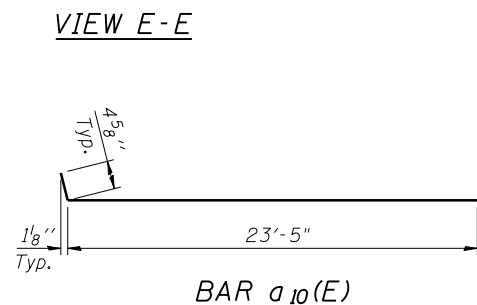
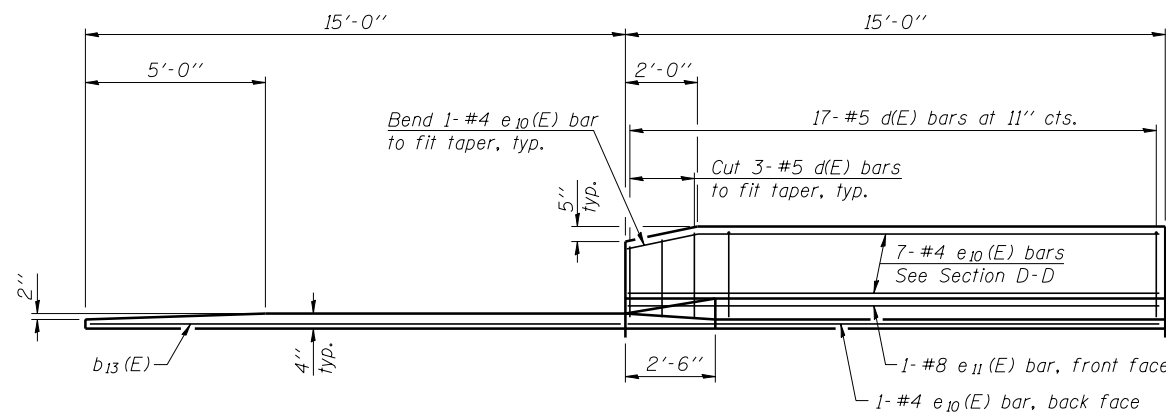


* Tilt #9 b₁₁(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.



**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a ₁₀ (E)	100	#4	23'-10"	┌───┐
a ₁₁ (E)	184	#5	25'-2"	┌───┐
a ₁₂ (E)	48	#6	6'-6"	┌───┐
b ₁₀ (E)	56	#4	29'-8"	┌───┐
b ₁₁ (E)	162	#9	29'-9"	┌───┐
b ₁₂ (E)	4	#4	14'-8"	┌───┐
b ₁₃ (E)	4	#4	14'-8"	┌───┐
d(E)	68	#5	5'-7"	┌───┐
d ₁ (E)	68	#5	7'-11"	┌───┐
e ₁₀ (E)	32	#4	14'-8"	┌───┐
e ₁₁ (E)	4	#8	14'-8"	┌───┐
t(E)	140	#4	13'-4"	┌───┐
w(E)	160	#5	24'-3"	┌───┐
Concrete Superstructure		Cu. Yd.	115.0	
Concrete Structures		Cu. Yd.	28.5	
Reinforcement Bars, Epoxy Coated		Pound	31,200	



(Sheet 2 of 2)

**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 027-0072**

FILE NAME = ...E65980-SN0270072-012-Appr-Slab2.dgn

BA-L

7-1-10



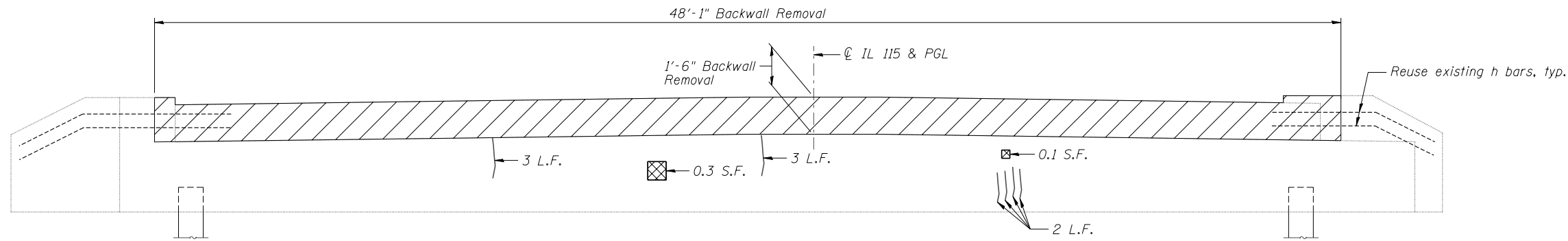
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	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

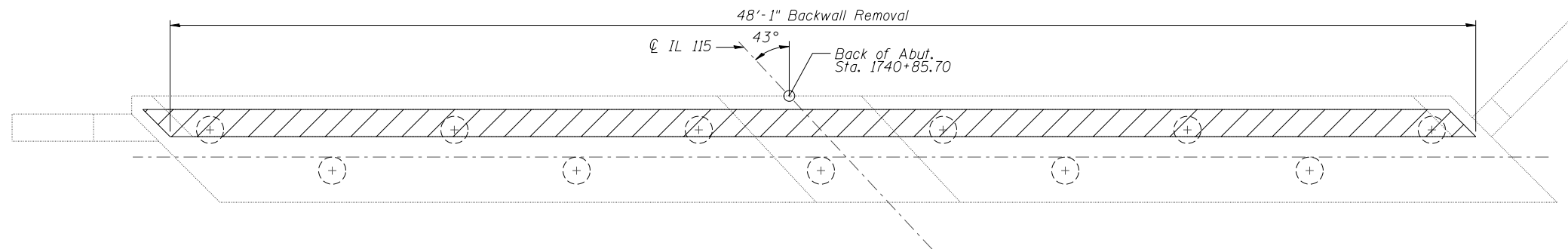
**BRIDGE APPROACH SLAB DETAILS
 S.N. 027-0072**

SHEET NO. SA-12 OF SA-15 SHEETS

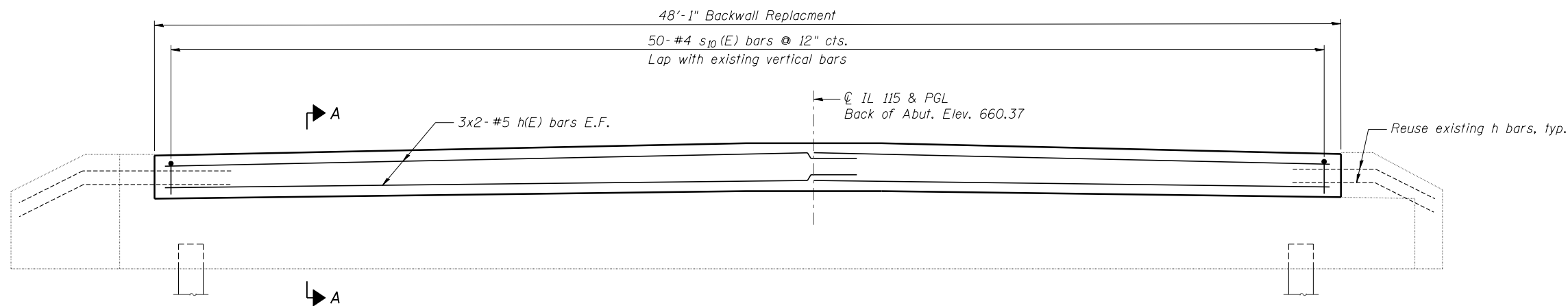
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	44
				CONTRACT NO. 66980
ILLINOIS FED. AID PROJECT				



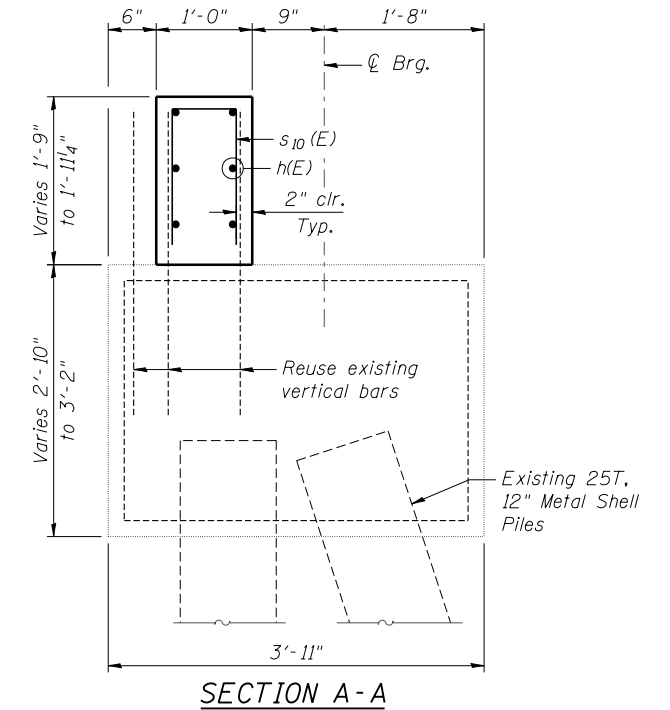
EXISTING ELEVATION
(Looking North)



EXISTING PLAN



PROPOSED ELEVATION
(Looking North)



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	26'-3"	—
s10(E)	50	#4	3'-6"	Π
Concrete Removal			Cu. Yd.	2.7
Structure Excavation			Cu. Yd.	35
Reinforcement Bars, Epoxy Coated			Pound	450
Concrete Structures			Cu. Yd.	3.3
Structural Repair of Concrete (Depth Equal to or Less Than 5")			Sq. Ft.	1
Epoxy Crack Injection			Foot	14

LEGEND

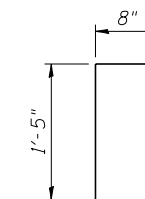
- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Epoxy Crack Sealing

MINIMUM BAR LAP
#5 bar = 3'-8"

Existing reinforcement and dowels shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

Repairs shown are based upon observations performed at the time of plan preparation and are for bidding purposes only. Actual areas to be repaired shall be determined by the Field Engineer at the time of construction.

Bars indicated thus 3x2-#5 etc. indicates 3 lines of bars with 2 lengths per line.



BAR s10(E)

NORTH ABUTMENT REPAIRS
STRUCTURE NO. 027-0072

FILE NAME = ...G65980-SN0270072-013-NorthAbutmentRepairs.dgn



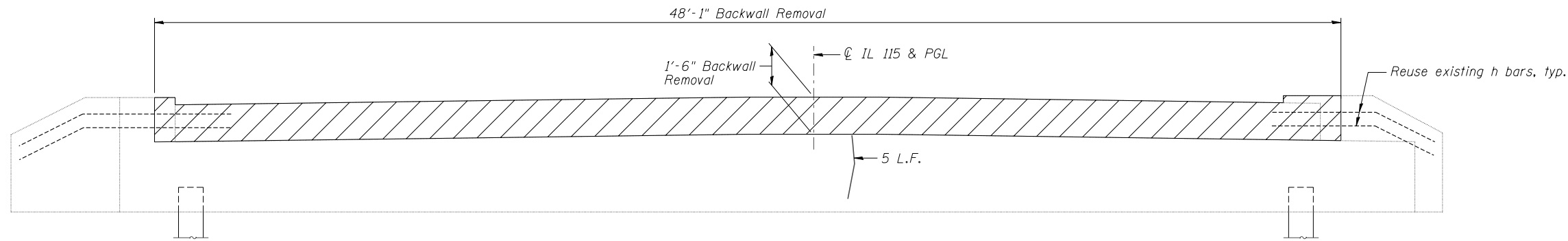
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PLOT SCALE = 0:2.0000 ' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 10/30/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

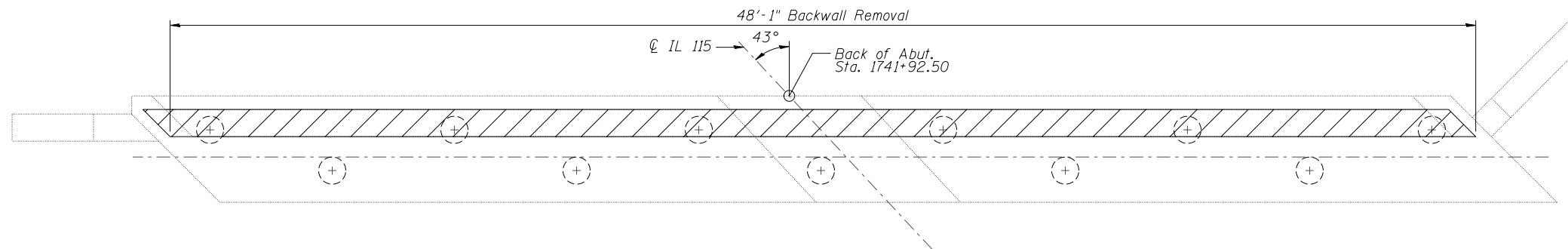
NORTH ABUTMENT REPAIRS
S.N. 027-0072

SHEET NO. SA-13 OF SA-15 SHEETS

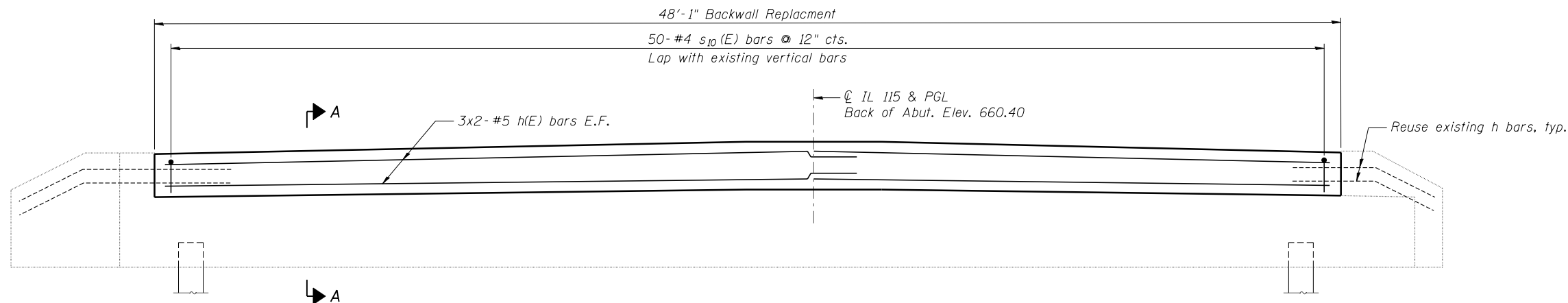
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	45
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				



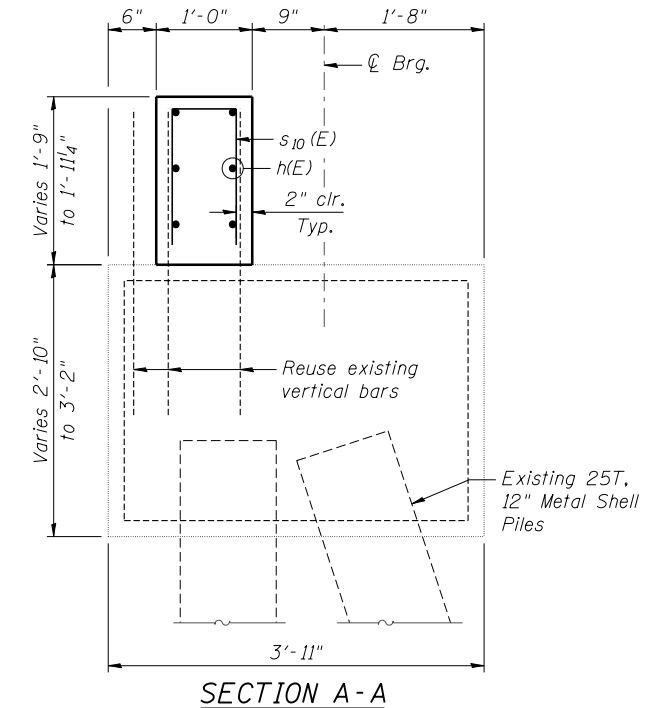
EXISTING ELEVATION
(Looking South)



EXISTING PLAN



PROPOSED ELEVATION
(Looking South)



LEGEND

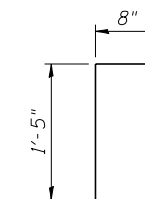
- Concrete Removal
- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Epoxy Crack Sealing

MINIMUM BAR LAP
#5 bar = 3'-8"

Existing reinforcement and dowels shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

Repairs shown are based upon observations performed at the time of plan preparation and are for bidding purposes only. Actual areas to be repaired shall be determined by the Field Engineer at the time of construction.

Bars indicated thus 3x2-#5 etc. indicates 3 lines of bars with 2 lengths per line.



BAR s₁₀(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	26'-3"	—
s ₁₀ (E)	50	#4	3'-6"	Π
Concrete Removal			Cu. Yd.	2.7
Structure Excavation			Cu. Yd.	35
Reinforcement Bars, Epoxy Coated			Pound	450
Concrete Structures			Cu. Yd.	3.3
Epoxy Crack Injection			Foot	5

SOUTH ABUTMENT REPAIRS
STRUCTURE NO. 027-0072

FILE NAME = ...G65980-SN0270072-014-SouthAbutRepairs.dgn



USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 0:2.0000 ' : / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 10/30/2012	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT REPAIRS
S.N. 027-0072

SHEET NO. SA-14 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	46
CONTRACT NO. 66980			ILLINOIS FED. AID PROJECT	

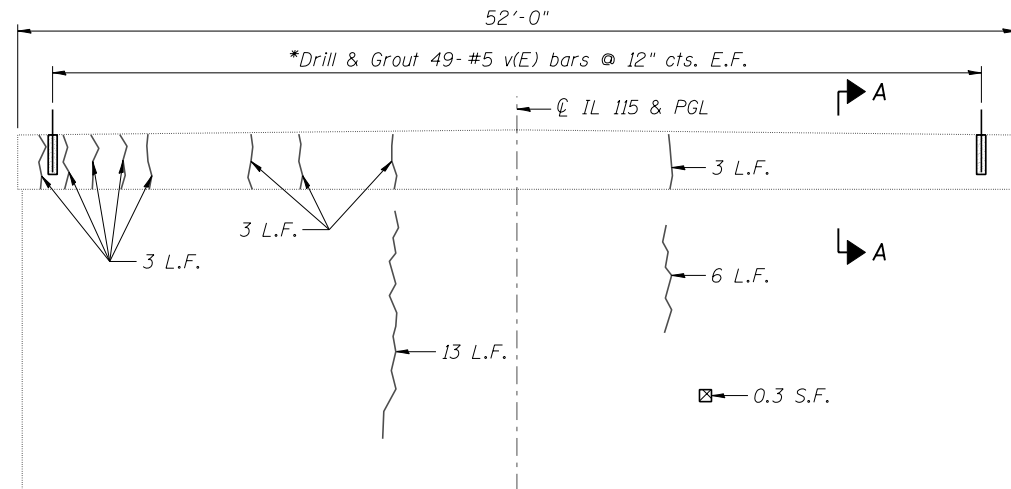
**TWO PIERS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
v(E)	196	5	2'-3"	—	
Reinforcement Bars, Epoxy Coated				Pound	460
Structural Repair of Concrete (Depth Equal to or Less Than 5")				Sq. Ft.	6
Epoxy Crack Injection				Foot	96

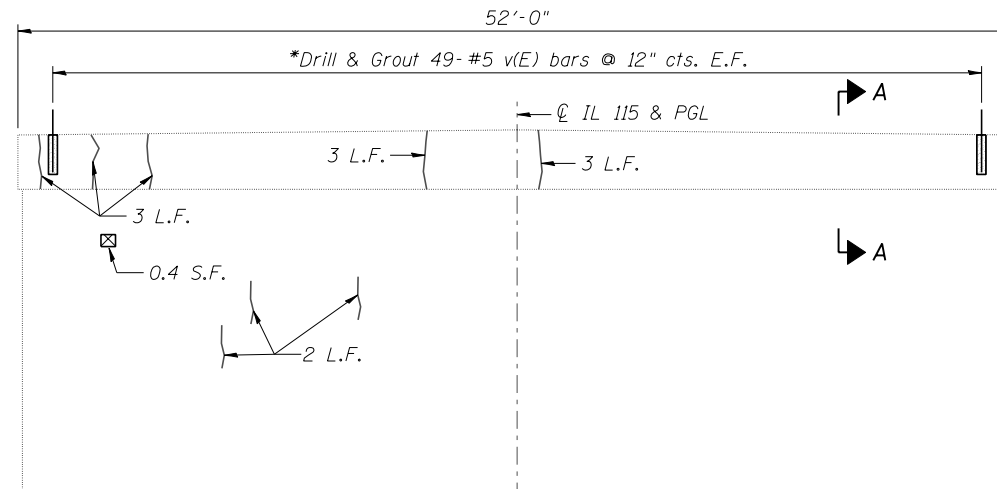
Notes:

*Drill and epoxy grout bars into existing concrete according to Section 584 of the Standard Specifications. Embedment = 9" typ. Cost included with Reinforcement Bars, Epoxy Coated.

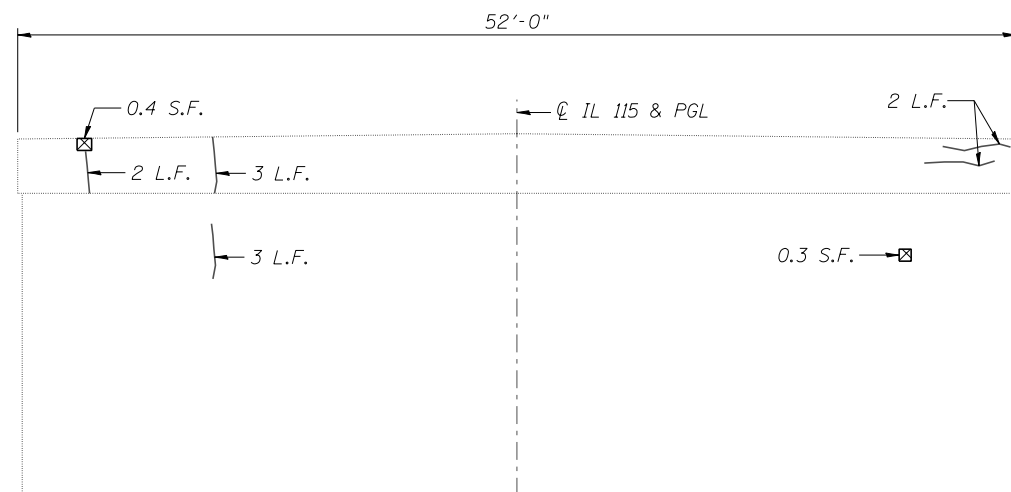
Repairs shown are based upon observations performed at the time of plan preparation and are for bidding purposes only. Actual areas to be repaired shall be determined by the Field Engineer at the time of construction.



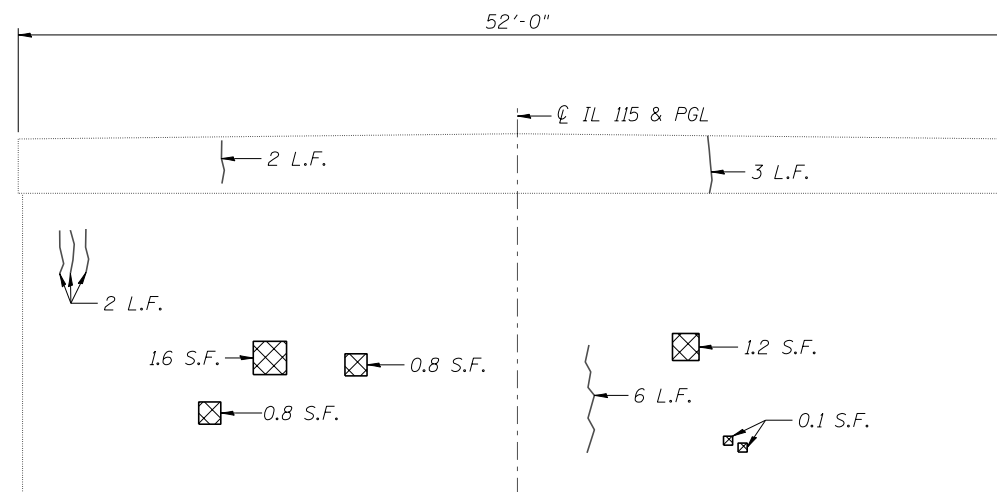
PIER 1 ELEVATION
(Looking North)



PIER 2 ELEVATION
(Looking North)

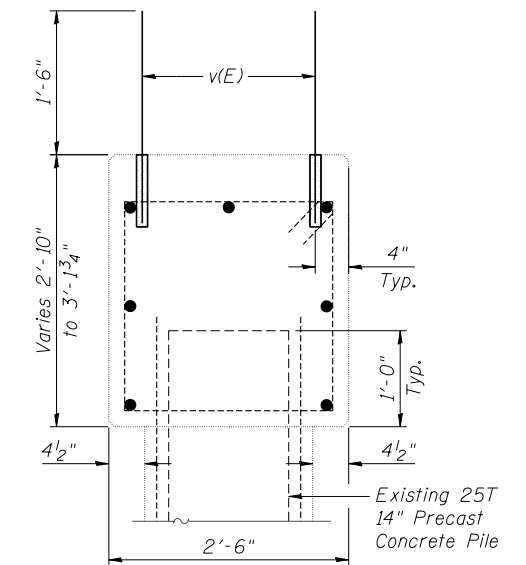


PIER 1 ELEVATION
(Looking South)



PIER 2 ELEVATION
(Looking South)

Note: Piles not shown in elevation views for clarity.



SECTION A-A

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5")
- Epoxy Crack Injection

**PIER REPAIRS
STRUCTURE NO. 027-0072**

FILE NAME = ...66580-SN0270072-015-PierRepairs.dgn



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PLOT SCALE = 0:2.0000 ' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 10/30/2012	DRAWN - SAW	REVISED -
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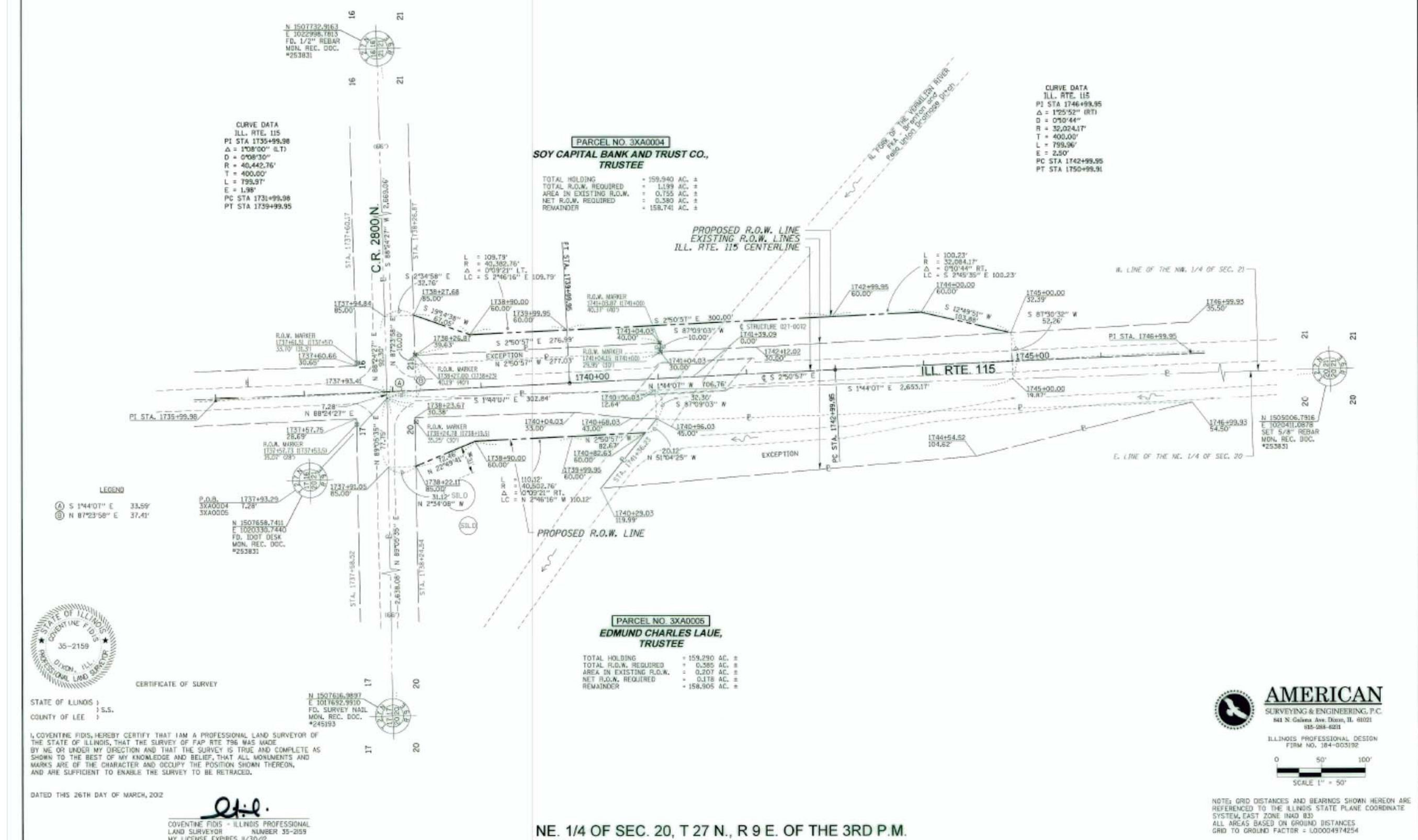
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER REPAIRS
S.N. 027-0072**

SHEET NO. SA-15 OF SA-15 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(106 BR-1 & BR-4)BR	FORD	78	47
CONTRACT NO. 66980				
ILLINOIS FED. AID PROJECT				

NW. 1/4 OF SEC. 21, T. 27 N., R. 9 E. OF THE 3RD P.M.



CURVE DATA
ILL. RTE. 115
PI STA 1735+99.98
Δ = 1°08'00" (L.T.)
D = 0°08'30"
R = 40,442.76'
T = 400.00'
L = 799.91'
E = 1.98'
PC STA 1731+99.98
PT STA 1739+99.95

PARCEL NO. 3XA0004
SOY CAPITAL BANK AND TRUST CO., TRUSTEE
TOTAL HOLDING = 159.940 AC. ±
TOTAL R.O.W. REQUIRED = 1.199 AC. ±
AREA IN EXISTING R.O.W. = 0.755 AC. ±
NET R.O.W. REQUIRED = 0.380 AC. ±
REMAINDER = 158.741 AC. ±

CURVE DATA
ILL. RTE. 115
PI STA 1746+99.95
Δ = 1°25'52" (R.T.)
D = 0°04'44"
R = 32,024.17'
T = 400.00'
L = 799.96'
E = 2.50'
PC STA 1742+99.95
PT STA 1750+99.91

LEGEND
④ S 1°44'01" E 33.59'
⑤ N 87°23'58" E 37.41'



CERTIFICATE OF SURVEY
STATE OF ILLINOIS }
COUNTY OF LEE } S.S.
I, COVENTINE FIDIS, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF F.A.P. RTE. 796 WAS MADE BY ME OR UNDER MY DIRECTION AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.
DATED THIS 26TH DAY OF MARCH, 2012
C.F.
COVENTINE FIDIS - ILLINOIS PROFESSIONAL LAND SURVEYOR NUMBER 35-2159 MY LICENSE EXPIRES 8/30/12

PARCEL NO. 3XA0005
EDMUND CHARLES LAUE, TRUSTEE
TOTAL HOLDING = 159.290 AC. ±
TOTAL R.O.W. REQUIRED = 0.585 AC. ±
AREA IN EXISTING R.O.W. = 0.207 AC. ±
NET R.O.W. REQUIRED = 0.178 AC. ±
REMAINDER = 158.905 AC. ±

NE. 1/4 OF SEC. 20, T. 27 N., R. 9 E. OF THE 3RD P.M.

AMERICAN
SURVEYING & ENGINEERING, P.C.
841 N. Galena Ave. Dixon, IL 61021
915-288-8211
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-005192
SCALE 1" = 50'

NOTE: GRID DISTANCES AND BEARINGS SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83). ALL AREAS BASED ON GROUND DISTANCES. GRID TO GROUND FACTOR = 1.00004974254

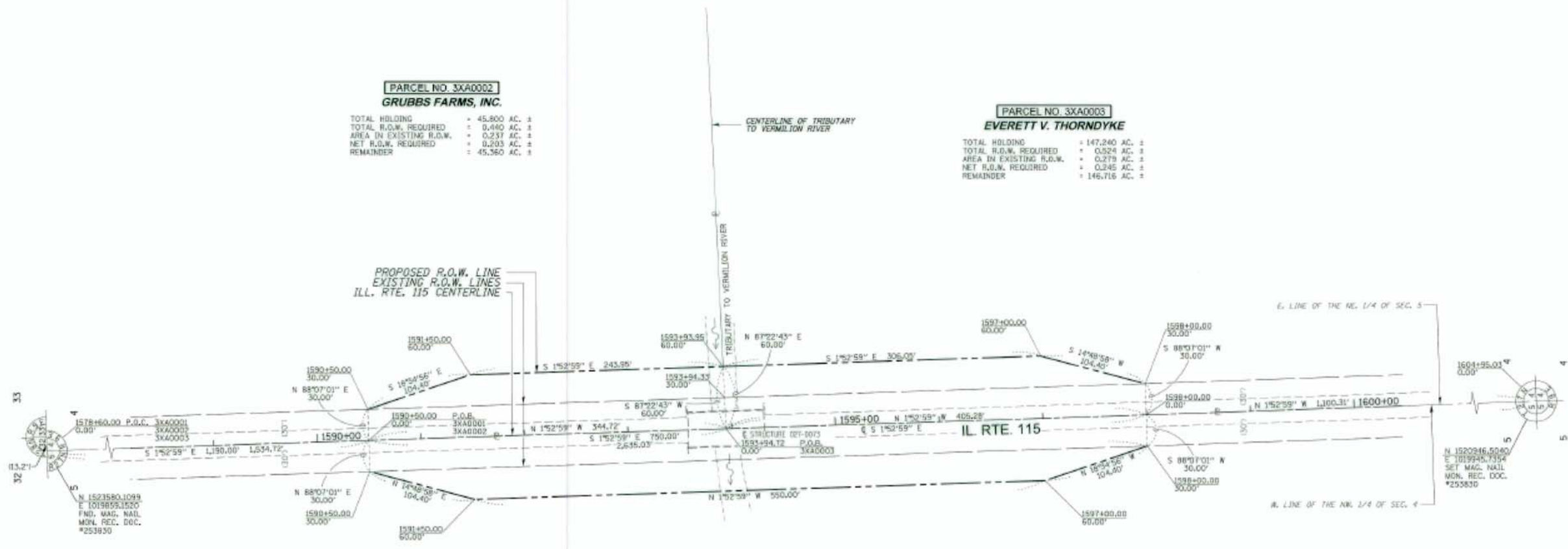
FILE NAME : *FILEL*	USER NAME : *USERS*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT-OF-WAY SHEETS		F.A.P. RTE. 796	SECTION 1106 BR-1 & BR-41BR	COUNTY FORD	TOTAL SHEETS 78	SHEET NO. 48	
Default	PLOT SCALE : *SCALE*	CHECKED -	REVISED -		SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____	CONTRACT NO. 66980	
	PLOT DATE : *DATE*	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

NW. 1/4 SEC. 4, T. 27 N., R. 9 E. OF THE 3RD P.M.



PARCEL NO. 3XA0002
GRUBBS FARMS, INC.
 TOTAL HOLDING = 45.800 AC. ±
 TOTAL R.O.W. REQUIRED = 0.440 AC. ±
 AREA IN EXISTING R.O.W. = 0.237 AC. ±
 NET R.O.W. REQUIRED = 0.203 AC. ±
 REMAINDER = 45.360 AC. ±

PARCEL NO. 3XA0003
EVERETT V. THORNDYKE
 TOTAL HOLDING = 147.240 AC. ±
 TOTAL R.O.W. REQUIRED = 0.524 AC. ±
 AREA IN EXISTING R.O.W. = 0.279 AC. ±
 NET R.O.W. REQUIRED = 0.245 AC. ±
 REMAINDER = 146.716 AC. ±



PARCEL NO. 3XA0001
AMERICAN NATIONAL BANK AND TRUST COMPANY OF CHICAGO, TRUSTEE
 TOTAL HOLDING = 318.360 AC. ±
 TOTAL R.O.W. REQUIRED = 0.964 AC. ±
 AREA IN EXISTING R.O.W. = 0.517 AC. ±
 NET R.O.W. REQUIRED = 0.447 AC. ±
 REMAINDER = 317.396 AC. ±



CERTIFICATE OF SURVEY

STATE OF ILLINOIS)
 COUNTY OF LEE)

I, COVENTRY FIDIS, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF F.A.P. RTE. 796 WAS MADE BY ME OR UNDER MY DIRECTION AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED THIS 26TH DAY OF MARCH, 2012

et al.
 COVENTRY FIDIS - ILLINOIS PROFESSIONAL LAND SURVEYOR NUMBER 35-2159 MY LICENSE EXPIRES 1/30/12

ASE JOB NO. 210007.2



AMERICAN
 SURVEYING & ENGINEERING, P.C.
 441 N. Galena Ave. Danz, IL 61881
 815-386-4231
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-003192



NOTE: GRID DISTANCES AND BEARINGS SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE 18AD 83. ALL AREAS BASED ON GROUND DISTANCES. GRID TO GROUND FACTOR = 0.00004974254

NE. 1/4 SEC. 5, T. 27 N., R. 9 E. OF THE 3RD P.M.

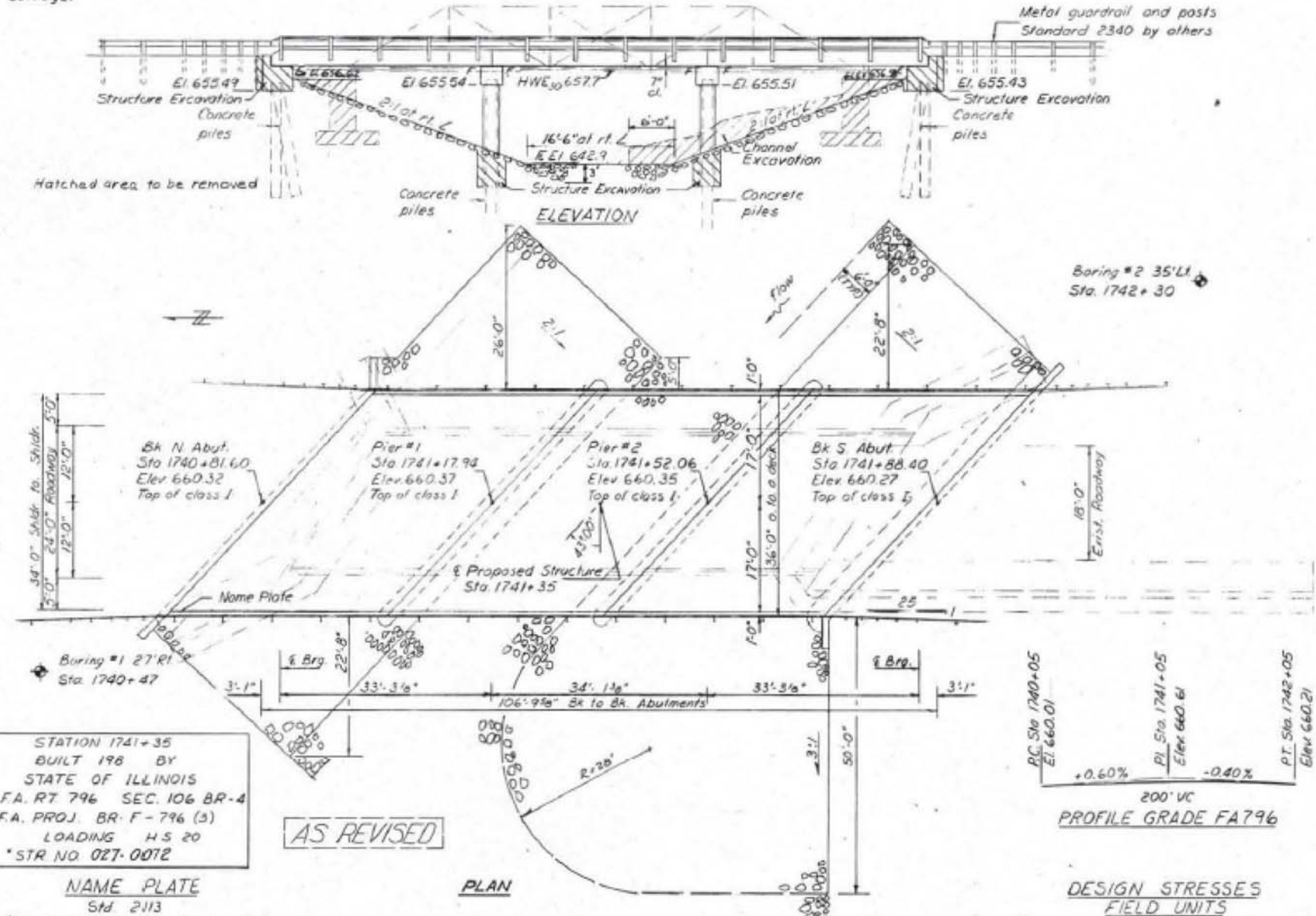
FILE NAME : #FILE#	USER NAME : #USER#	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT-OF-WAY SHEETS			F.A.P. RTE. 796	SECTION 1106 BR-1 & BR-41BR	COUNTY FORD	TOTAL SHEETS 78	SHEET NO. 49
Default	PLOT SCALE : #SCALE#	CHECKED - DATE -	REVISED - REVISED -		SCALE: _____	SHEET _____	OF _____	SHEETS	STA. _____	TO STA. _____	CONTRACT NO. 66980	
	PLOT DATE : #DATE#				ILLINOIS FED. AID PROJECT							

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
796	106 BR-4	FORD	59	30A	30

BM #1a on NE Wingwall Elev. 659.87
Existing Structure at Sta. 1741+35 built in 1927 as
SBI 115 Sec. 106-C (Superstructure), Sec. 106-B (Substructure),
Existing 80' span steel pony truss superstructure with 22'-0"
roadway and RC closed abutments to be removed and replaced
with a three span 17" PPC deck beam, pile bent piers and
open abutment structure.
Existing Bridge No. 027-0038
Traffic will be detoured.
No salvage.

- General Notes
- See Proposal for Boring Data.
 - Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.
 - The contractor shall drive two concrete test piles in a permanent location, one at the North Abutment and one at Pier 2 as directed by the Engineer before ordering the remainder of piles.
 - The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
 - Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
 - Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.



FOR INFORMATION ONLY

TOTAL BILL OF MATERIAL

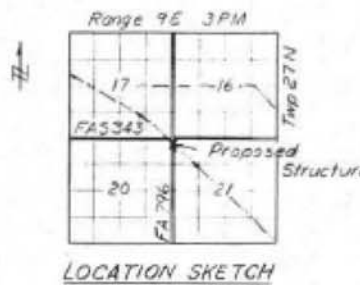
Item	Unit	Super	Sub	Total
Structure Excavation	Cu Yd.	-	171	171
Protective Coat	Sq Yd.	38	-	38
Removal of Existing Structures	Each	1	-	1
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	3672	-	3672
Class X Concrete	Cu Yd.	13.8	152.8	166.6
Reinforcement Bars	Pound	1440	13360	15000
Concrete Piles	Lin. Ft.	-	1248	1248
Test Piles (Concrete)	Each	-	2	2
Waterproofing Membrane System	Sq. Yd.	386	-	386
Name Plates	Each	1	-	1
Stone Rip-Rap	Sq. Yd.	-	970	970
Bit Con. SC Mix D. C. I.	Yon	44	-	44
Steel Railing, Type I	Lin. Ft.	201	-	201
Portland Cement Mortar Faring Course	Lin. Ft.	816	-	816
Neoprene Expansion Jt. E	Lin. Ft.	99	-	99

STATION 1741+35
BUILT 1927 BY
STATE OF ILLINOIS
F.A. RT. 796 SEC. 106 BR-4
F.A. PROJ. BR. F-796 (3)
LOADING H.S. 20
*STR. NO. 027-0072

NAME PLATE
Std. 2113
*Structure number to be supplied
by District.

AS REVISED

DESIGN STRESSES
FIELD UNITS
F_c = 3,500 psi
F_y = 60,000 psi
PRECAST PRESTRESSED UNITS
F_c = 5,000 psi
F_{ci} = 4,000 psi
F_s = 270,000 psi (12# strands)
F_{si} = 189,000 psi (12# strands)
LOADING HS 20-44
Allow 25 PSF for future wearing surface
Design Specification: 1977 AASHTO, 1978, 1979
Interim specifications as applicable.



David A. Schmelig
III Structural Engineer No. 81-3213

GENERAL PLAN & ELEVATION
FA Route 796 over the North Fork Vermilion River
FA Route 796 Sec. 106 BR-4
Ford County
Sta. 1741+35

WATERWAY INFORMATION

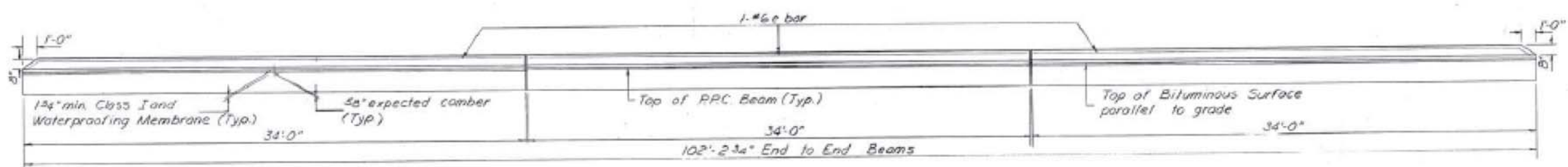
Drainage Area = 36.5 sq. mi. Low Grade Elev. = 659 at Sta.

Flood Yr.	Q cfs	Opening Sq. Ft.	lar	Head Ft.	Headwater El.
Design	30	2690	523 635	657.7	657.3 657.7
Base	100	3490	523 664	658.0	658.1 658.0
Overlapping					
Max. Chk.	500				

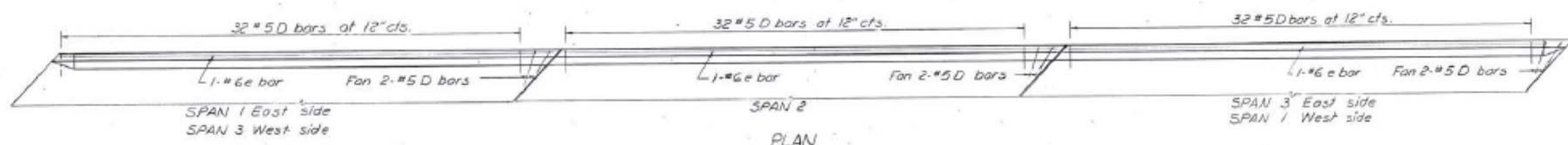
As Revised 8-28-81 L.W.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

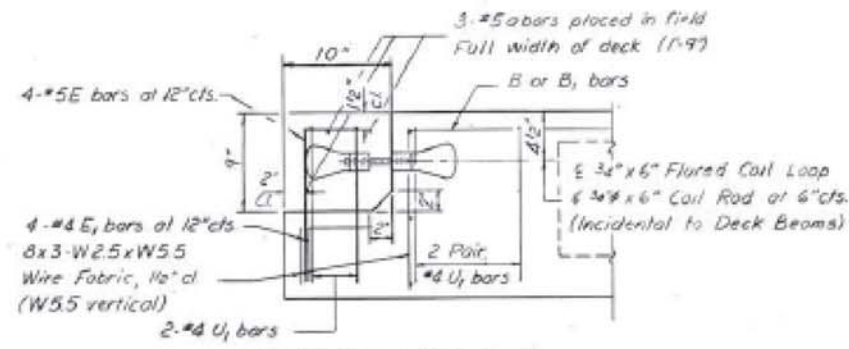
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	106 BR-4	FORD	39	32
SHEETS 10				



CURB ELEVATION AND BITUMINOUS SURFACE PROFILE
showing inside face of curb



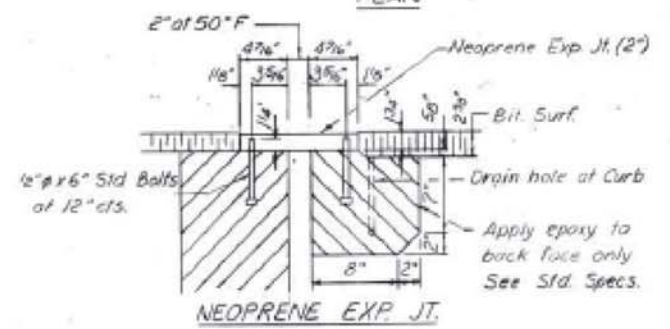
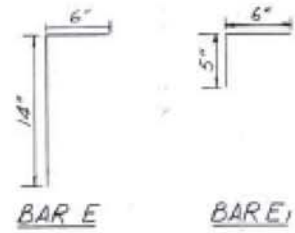
PLAN



END OF BEAM (EXP. END)

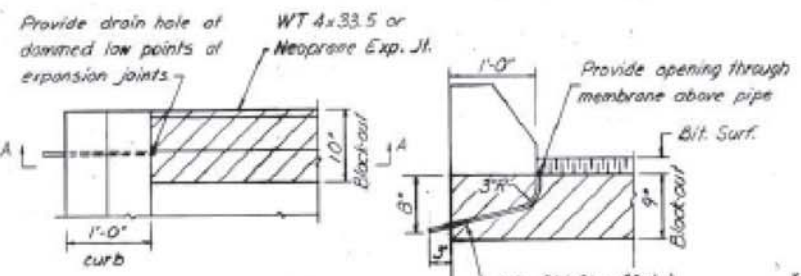
(Dimensions are at right angles)

NOTE: Transverse tie rods are not required at expansion ends of beams.



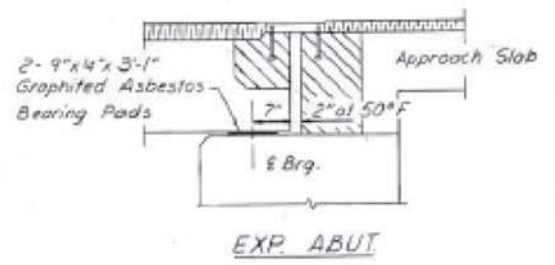
NEOPRENE EXP. JT.

NOTE: Ends of beams shall be aligned at the expansion joints. Any linear variation in the beam lengths shall be placed at the fixed joint. Dimensions are at right angles. Hatched areas to be poured after beams have been erected and joints grouted.

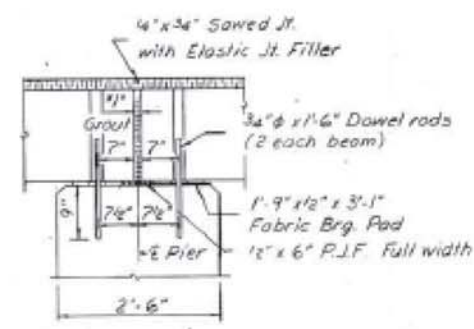


PLAN

SECTION AA



EXP. ABUT.



FIXED PIER

*1" Joint shall be packed with a very dry mix of 2:1 sand and PC mortar. 1" Dimension may vary plus or minus to accommodate tolerance in beam lengths.

FOR INFORMATION ONLY

BILL OF MATERIAL

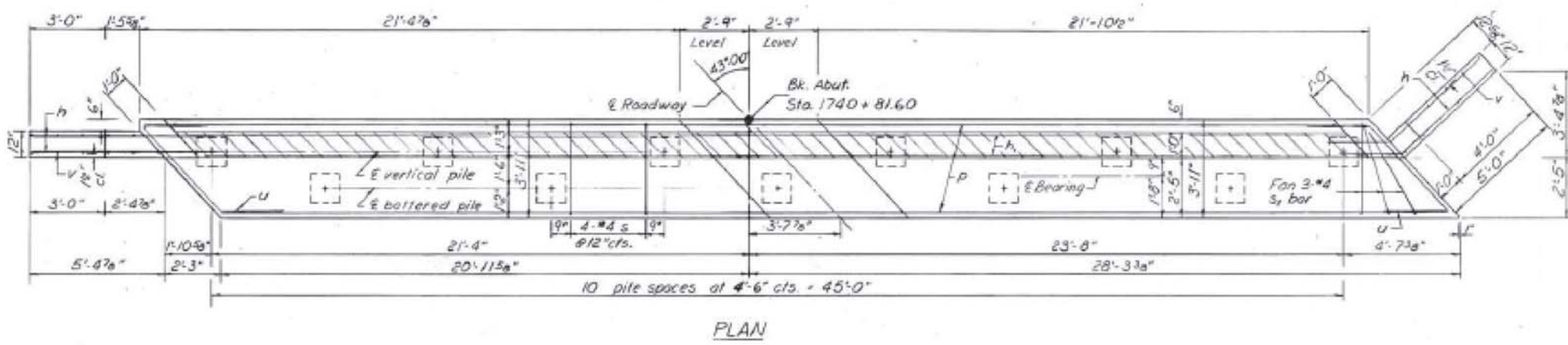
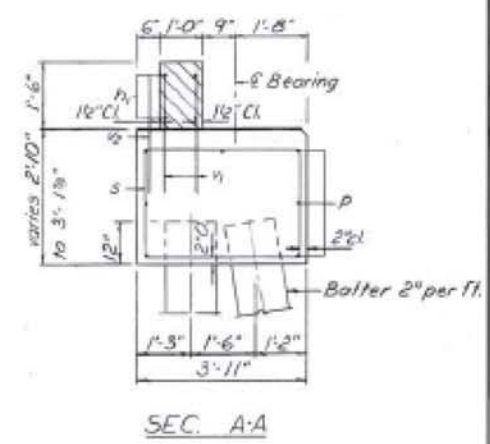
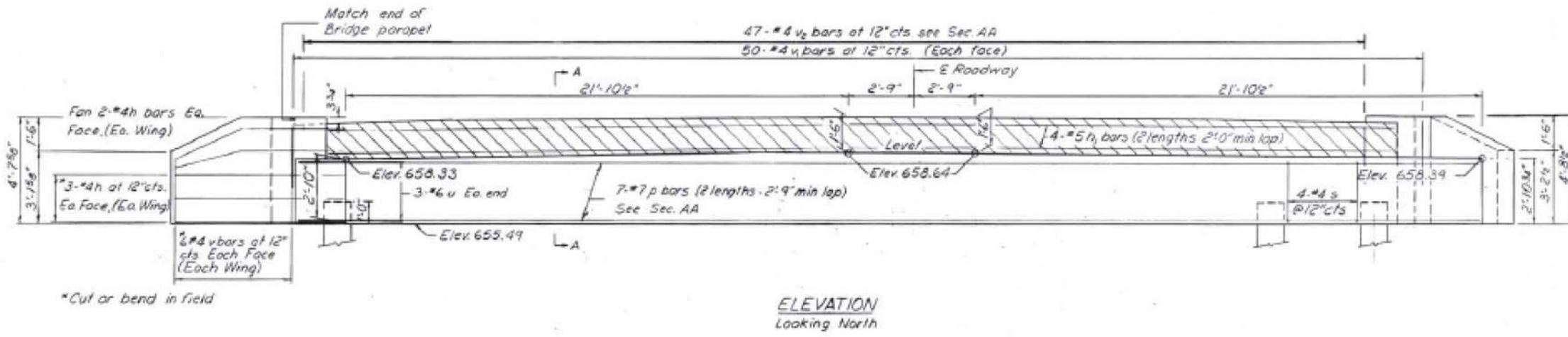
Bar	No	Size	Length	Shape
a	12	#5	25'-3"	—
d	204	#5	3'-10"	—
e	6	#6	33'-8"	—
Class X Concrete Cu Yd. 7.5				
Reinforcement Bars Pounds 1440				

SUPERSTRUCTURE DETAILS
FA Route 796 over the North Fork Vermilion River
FA Route 796 Sec. 106 BR-4
Ford County
Sta. 1741 +35

DESIGNED	D.A.S.
CHECKED	
DRAWN	P.A.S.
CHECKED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS	SHEET NO.
796	106 BR-4	FORD	39	34
SHEET NO. 5 SHEETS 10				



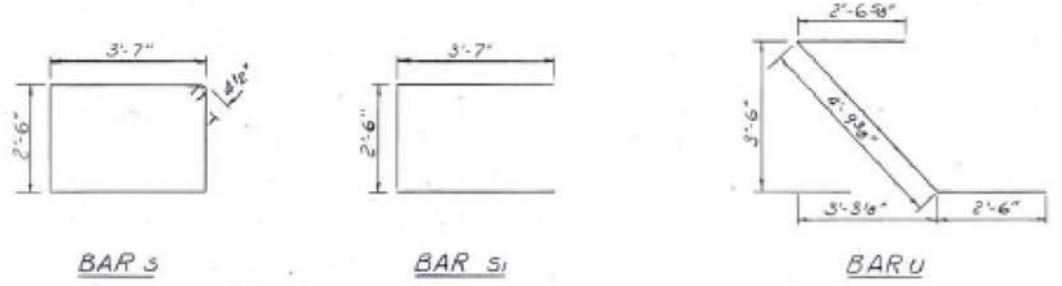
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n	20	#4	7'-6"	—
n _r	8	#5	25'-2"	—
p	14	#7	25'-9"	—
s	40	#4	12'-11"	□
s _r	3	#4	9'-8"	□
u	6	#6	9'-10"	—
v	24	#4	4'-5"	—
v _r	100	#4	2'-10"	—
v _r	47	#5	2'-10"	—
Class X Concrete				Cu.Yd 22.8
Reinforcement Bars				Found 100
Concrete Piles				Ln.Ft. 180
Test Piles (Concrete)				Each 1

FOR INFORMATION ONLY

DESIGNED	D.A.S.
CHECKED	
DRAWN	D.A.S.
CHECKED	

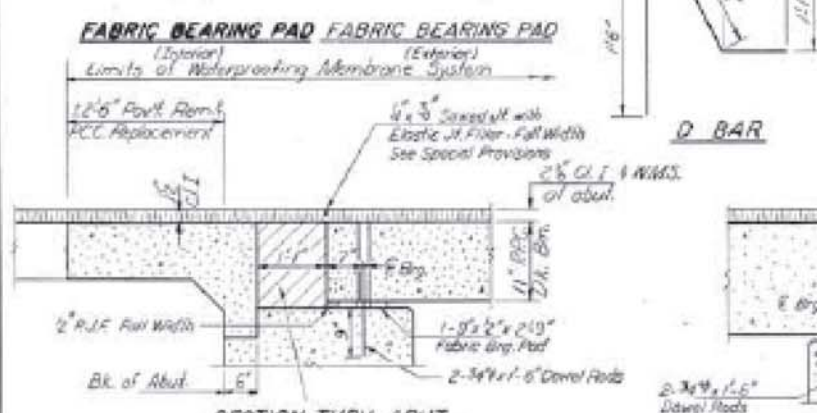
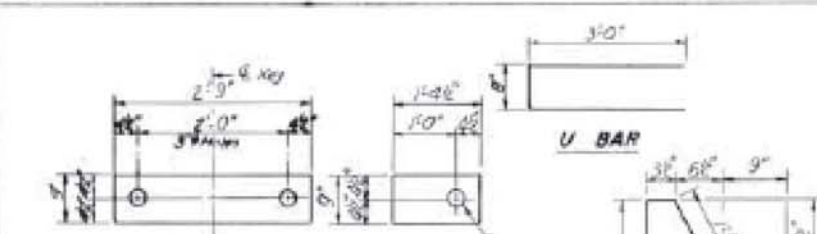
PILE DATA
 Type: Concrete
 Capacity: Drive to 25 Ton bearing
 Est. Length: 18'
 No. Req'd: 10 plus 1 Test pile placed in a permanent location



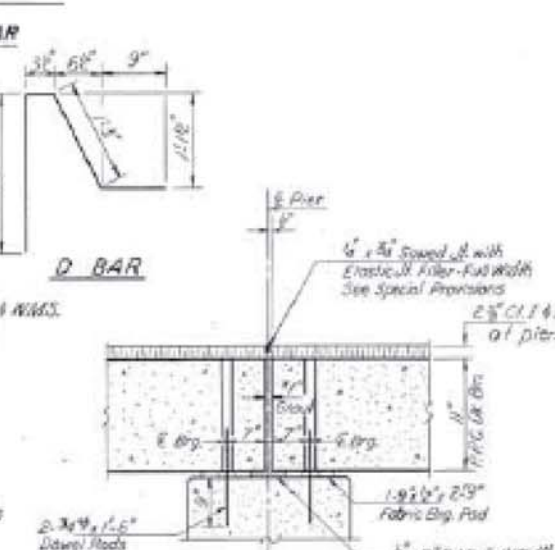
NORTH ABUTMENT
 FA Route 796 over the North Fork Vermillion River
 FA Route 796 Sec. 106 BR-4
 Ford County
 Sta. 1741 + 35

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

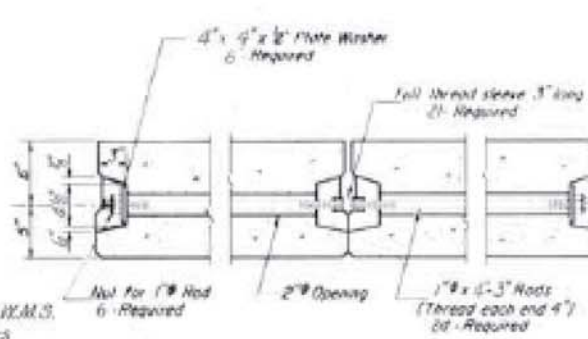
PROJECT NO.	106 BR-1	SECTION	FORD	34	16	SHEET NO. 2
DATE	10/26/81	SCALE	AS SHOWN			6 SHEETS



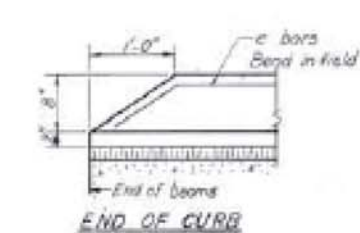
Notched area to be poured after beams are in place and joints grouted.



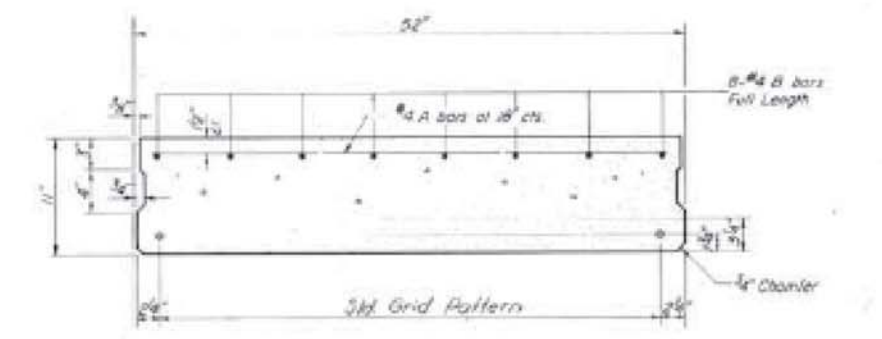
*1" joint shall be grouted with a very dry mix of 2-1 sand and P.C. mortar. This dimension may vary plus or minus to accommodate tolerance in beam lengths.



TYPICAL TRANSVERSE TIE ASSEMBLY

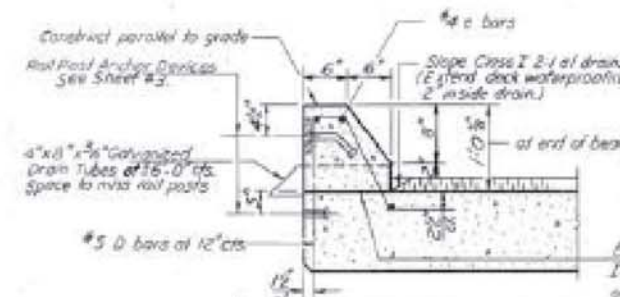
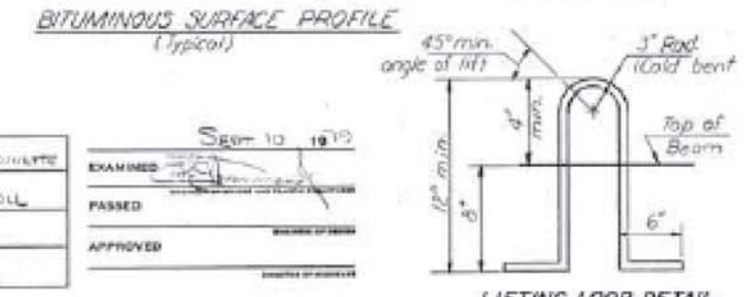
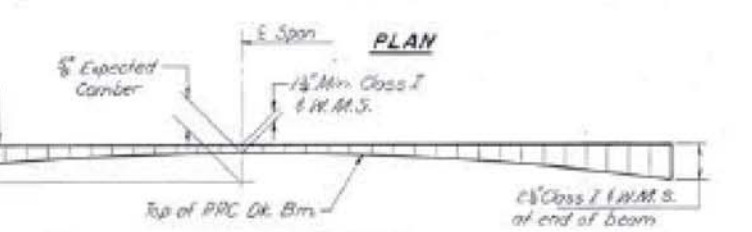
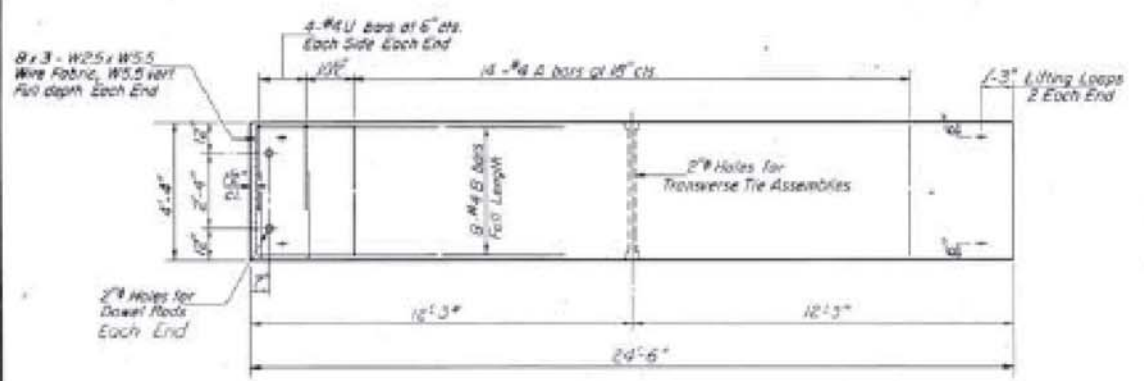


END OF CURB

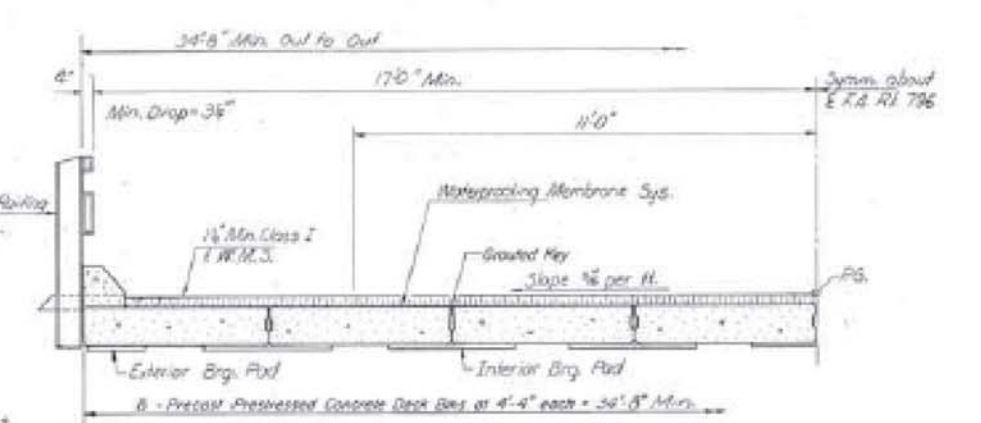


TYPICAL SECTION
5/8" Strands Each Strand Stressed to 28,900 lbs.
5-Strands 1 1/4" up, 2-Strands 5/4" up.

Note: Piece strands symmetrically about E axis.



SECTION THRU CURB
Curbs shall be poured in the field.
Class X Concrete & e bars for curbs are billed on Sheet #3.



HALF CROSS SECTION

FOR INFORMATION ONLY

BILL OF MATERIAL

Item	Unit	Total
Precast Prestressed Concrete Deck Beams(11' Depth)	Sq. Ft.	2548
Class X Concrete	Cu. Yd.	2.7

NOTES
Prestressing steel shall be non-galvanized high strength, stress relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 1/2" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs. or 2-1/2 #270 hot strands as shown.
The 1/2" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Packets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/2" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

SUPERSTRUCTURE
E.A. RT. 796 SEC. 106BR-1
FORD COUNTY
STA. 1594+0000

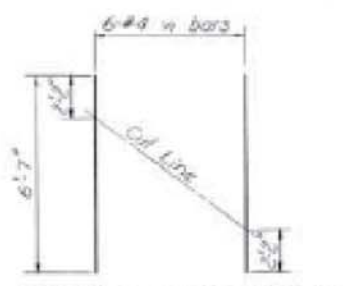
DESIGNED	REVISED	DATE
CHECKED	DRAWN	DATE
DRAWN	CHECKED	DATE
CHECKED	APPROVED	DATE

PD-2-S 8-1-78
Revised: 2-20-81 R.D.

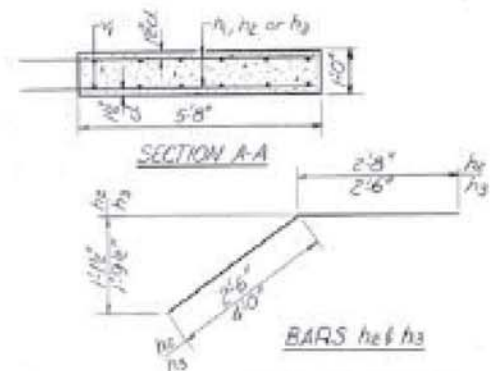
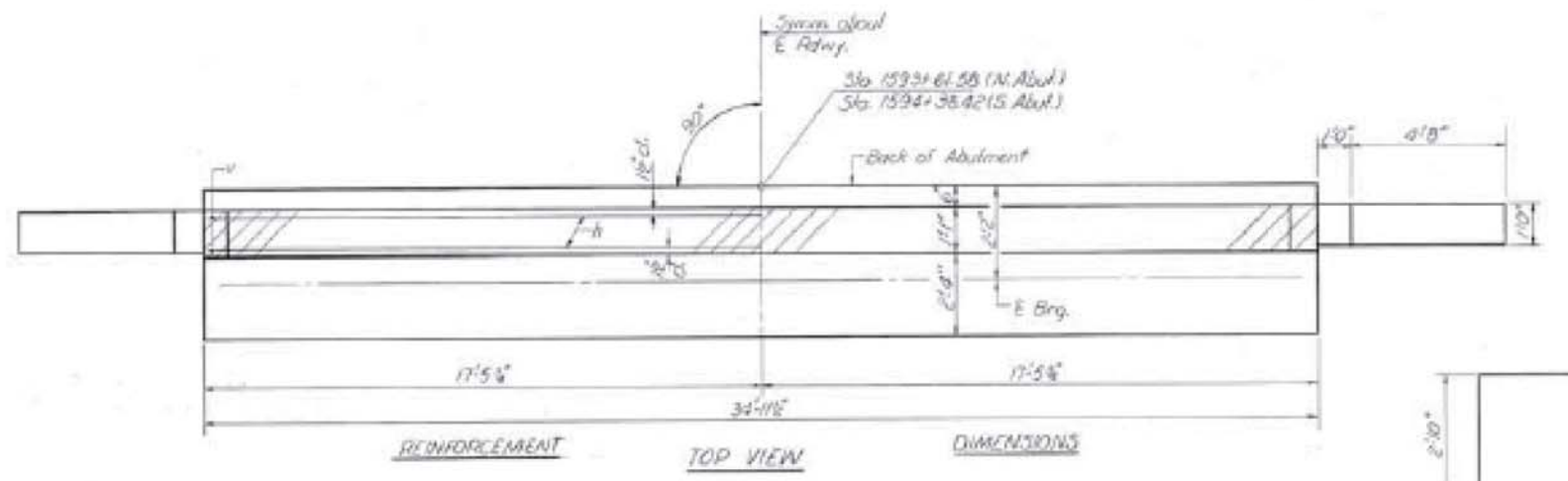
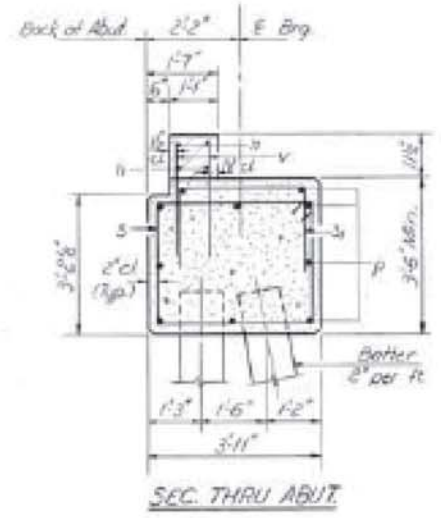
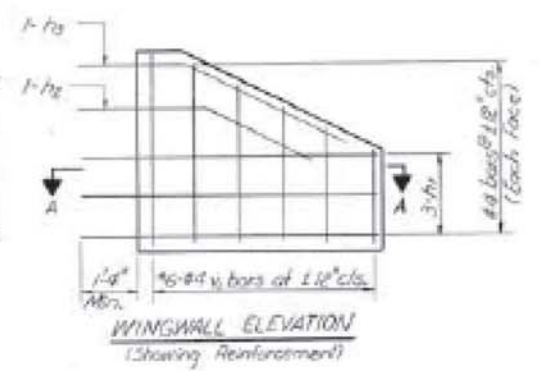
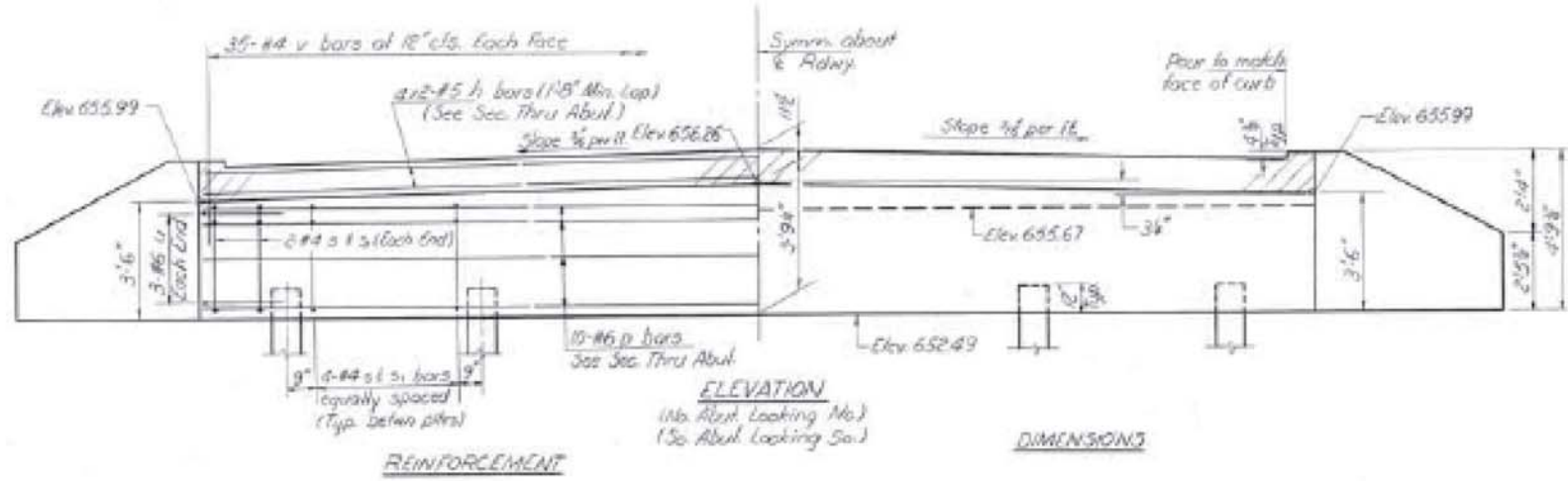
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	106 BR-1	FORD	34	18	SHEET NO. 9
PROJECT	FORD				6 SHEETS

PILE DATA
 Type: Concrete (12" Min. Shell)
 Capacity: 25 Tons
 Est. Length: 24' (N. Abut.) 16' (S. Abut.)
 No. Req'd: 3 at North Abut.
 8 at South Abut. in a permanent location of South Abut.



*FIELD CUTTING DIAGRAM
 Order 6 bars full lengths. Cut to fit as shown and use remainder of bars in opposite face.



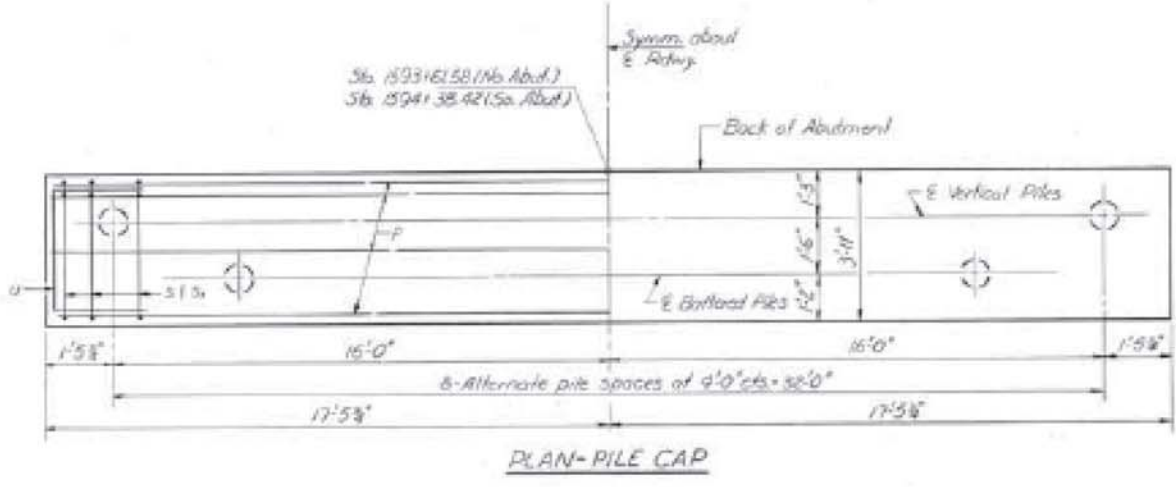
**TWO ABUTMENTS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
A	16	#5	18'-5"	—
h1	64	#4	6'-0"	—
h2	8	#4	5'-2"	—
h3	8	#4	6'-6"	—
B	20	#6	34'-7"	—
S	72	#4	23'-2"	□
3	72	#4	5'-1"	□
U	12	#6	9'-6"	□
V	140	#4	2'-2"	—
W	24	#4	6'-7"	—

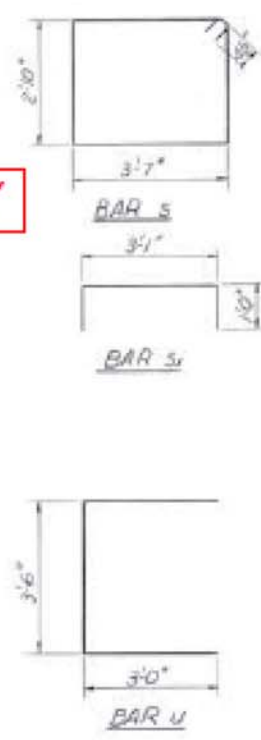
Class X Concrete Cu Wt. 390
 Reinforcement Bars Pound 2880
 Concrete Piles Lin. Ft. 344
 Test Piles, Concrete Each 1

NOTES:
 Bars indicated thus 3x2 #5 etc. indicates 3 lines of bars with 2 lengths per line.
 Hatched area to be poured after beams are in place and joints grouted. Quantity of Class X Concrete is included with superstructure.
 All edges shall have standard 1/4 chamfers except as noted.

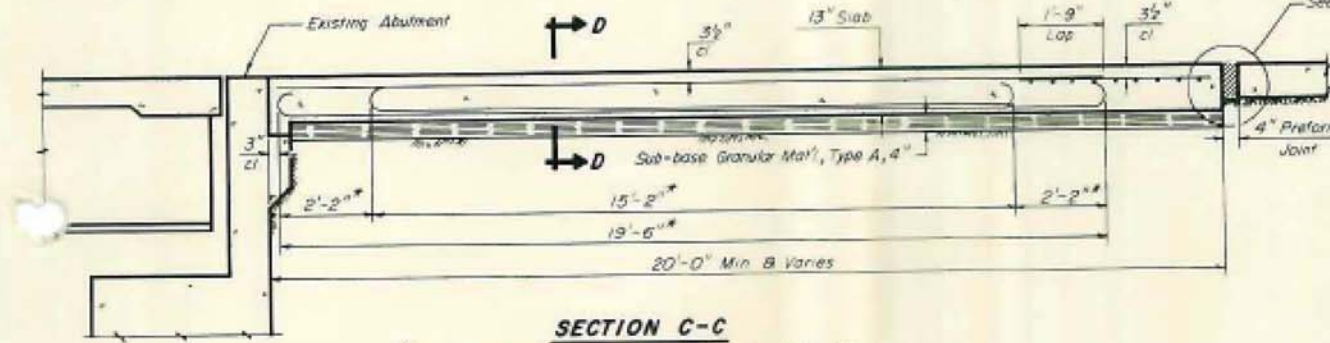
DESIGNED	Richard Bennett	EXAMINED	[Signature]
CHECKED	DAU KRULL	PASSED	[Signature]
DRAWN	R. Doty	APPROVED	[Signature]
CHECKED	D. K.		



FOR INFORMATION ONLY

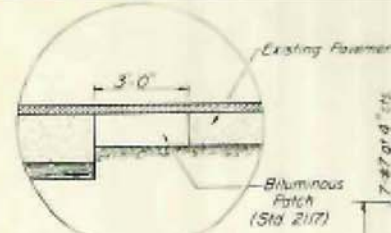


NORTH AND SOUTH ABUTMENTS
 E.A. RT. 796 SEC. 106 BR-1
 FORD COUNTY
 STA. 1594+00.00



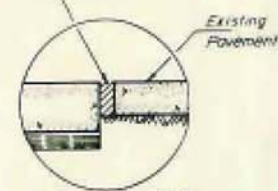
SECTION C-C

*Stagger alternate #7 bars as shown on plan - full width



DETAIL "A"

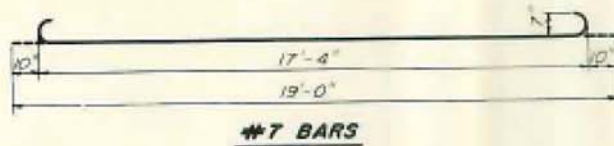
(When bituminous surface is being placed)



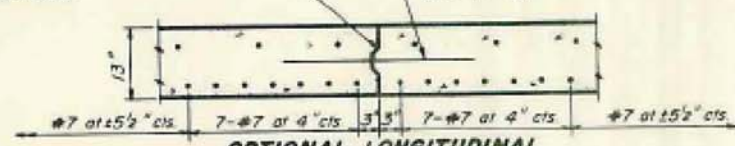
DETAIL "A"
(P.C.C. Pavement Construction)

Keyed Longitudinal Construction Joint in accordance with details shown on Standard 2323.

5/8" # Steel Tie Bars at 2'-0" cts

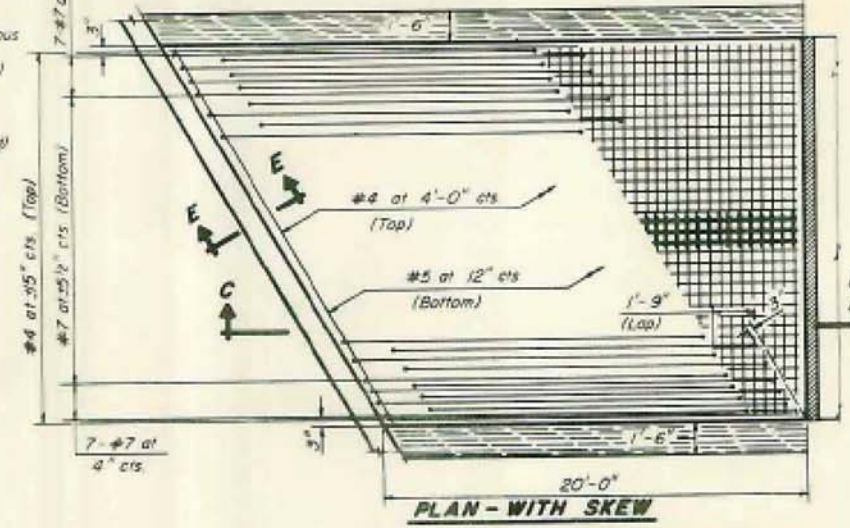


#7 BARS

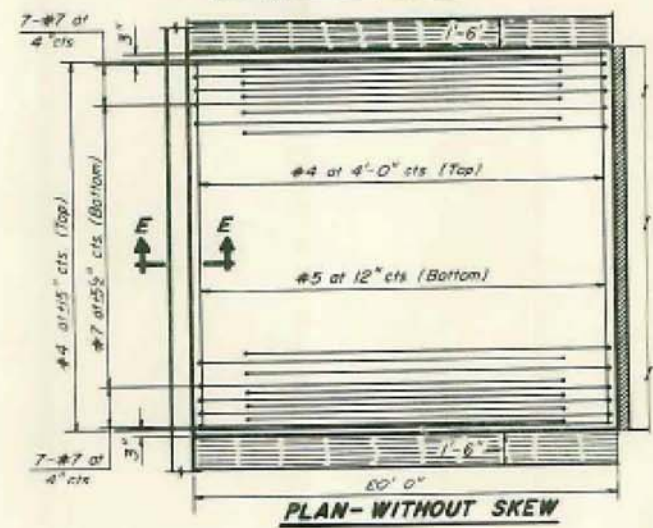


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

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

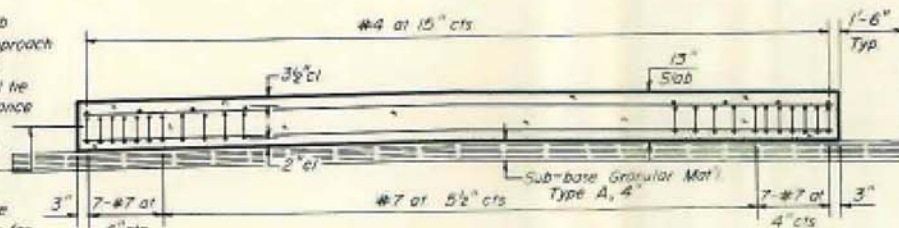


PLAN - WITH SKEW



PLAN - WITHOUT SKEW

When the road plans show curb and gutter, gutter, or bridge approach shoulder pavement adjacent to approach slabs, place 5/8" # steel tie bars at 2'-6" centers in accordance with the detail for Bulkhead Longitudinal Construction Joint shown on Standard 2323. Cost of the tie bars will be included in the contract unit price for the adjacent item. Transitions for curb and gutter or gutter shall be as shown on the plans.



SECTION D-D



SECTION E-E

Notes
For skews of less than 10° omit wire fabric. For skews of 10° or more use Welded Wire Fabric, 6"x6"-W5.5 x W5.5, placed 3/2" below top of slab. Expanded Metal weighing not less than 78 Pounds per 100 Sq Ft or a welded bar mat weighing not less than 78 Pounds per 100 Sq Ft having members of equal size in both directions and spaced not over 8" apart may be used instead of the Welded Wire Fabric, 6"x6"-W5.5 x W5.5, provided the expanded metal or bar mat is furnished at no additional cost to the State. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-53, Grade 60.

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f_c = 3500 \text{ psi}$
 $n = 8.5$

GENERAL NOTES

The cost of tie bars, expansion joint filler, sub-base, welded wire fabric and bituminous prime when required shall be considered as included in the unit cost of the Bridge Approach Pavement.
Preformed Expansion Joint Filler shall conform to Section 715 of the Standard Specifications. Width of Bridge Approach Slab shall be determined before the reinforcement bars are fabricated.
The bituminous patch, when required, will be paid for in accordance with Section 620 of the Standard Specifications.

FOR INFORMATION ONLY

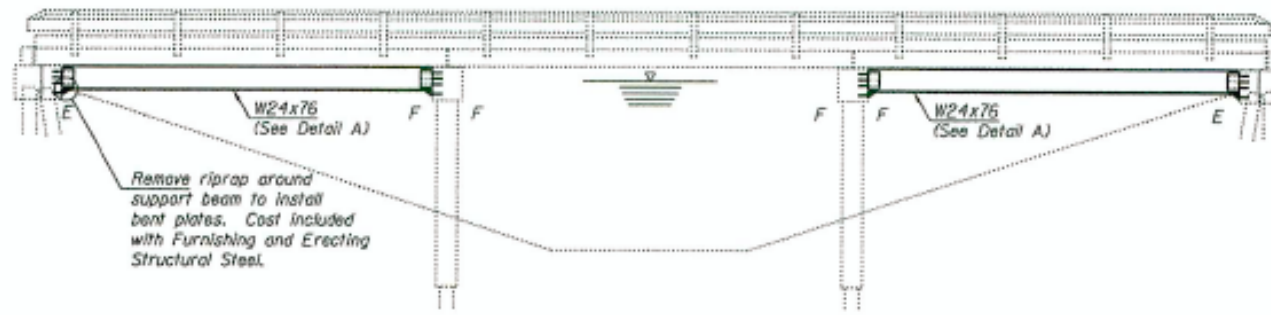
BRIDGE APPROACH PAVEMENT
Sheet 1 of 2
STANDARD 2382-1

Illinois Department of Transportation
PASSED: 4/19/79
APPROVED: 4/19/79
Engineer of Bridge and Traffic
Engineer of Design

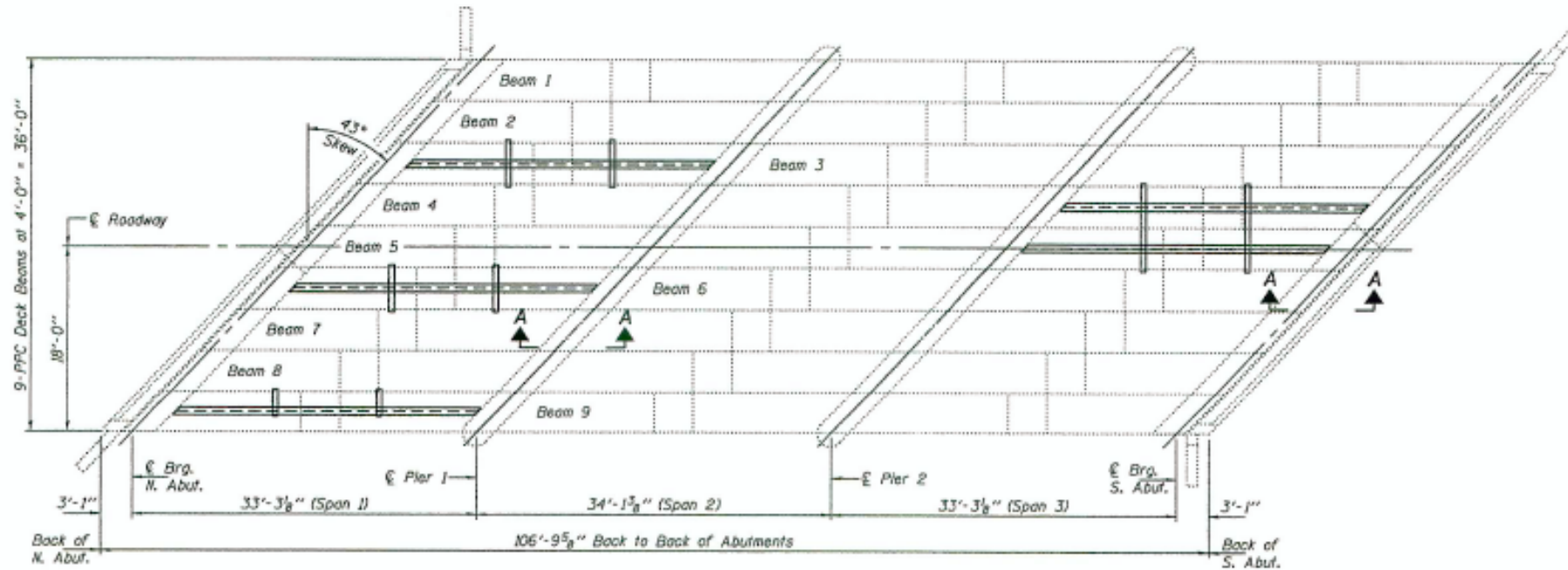
FILE NAME: #FILE#	USER NAME: #USERS#	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING APPROACH PAVEMENT SN 027-0072 &027-0073-FOR INFORMATION ONLY	F.A.P. RTE. 796	SECTION 1106 BR-1 & BR-4BR	COUNTY FORD	TOTAL SHEETS 78	SHEET NO. 59		
#MODELNAME#	PLOT SCALE: #SCALE#	DRAWN: -	REVISED: -			SCALE: _____	SHEET _____	OF _____	SHEETS _____	STA. _____	TO STA. _____	CONTRACT NO. 66980
	PLOT DATE: #DATE#	CHECKED: -	REVISED: -			ILLINOIS FED. AID PROJECT						
		DATE: -	REVISED: -									

* Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth = 36". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans. (Min. $S_x = 176 \text{ in}^2$)

Note A:
 E Transverse tie E's (2 per span). Place additional shims at midpoints between tie E's. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.

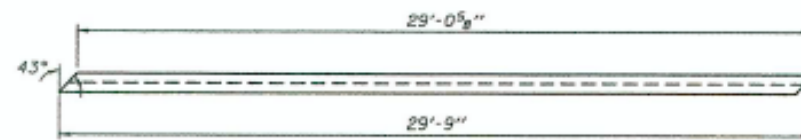


ELEVATION



PLAN

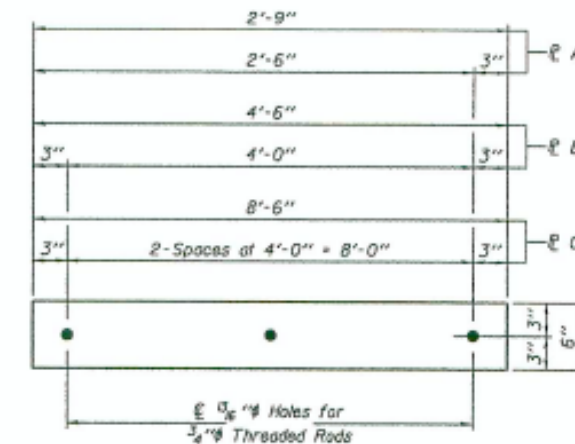
FOR INFORMATION ONLY



DETAIL A

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 35, unless otherwise noted.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures.
 See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods; Minimum embedment 9".
 If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams.
 The cost of epoxy grouting threaded rods on the pier cap, abutments and beams shall be included with Furnishing and Erecting Structural Steel.
 The Contractor has the option of using used steel. See Special Provisions.



TRANSVERSE TIE E'S

- E A 1/2" x 2'-9" x 6" (2 Req'd)
- E B 1/2" x 4'-6" x 6" (4 Req'd)
- E C 1/2" x 8'-6" x 6" (2 Req'd)

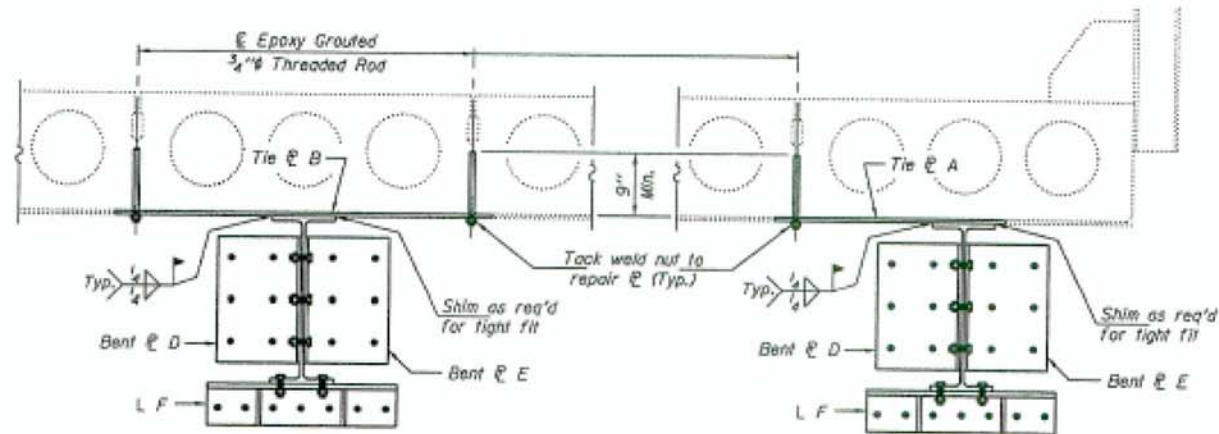
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	13840

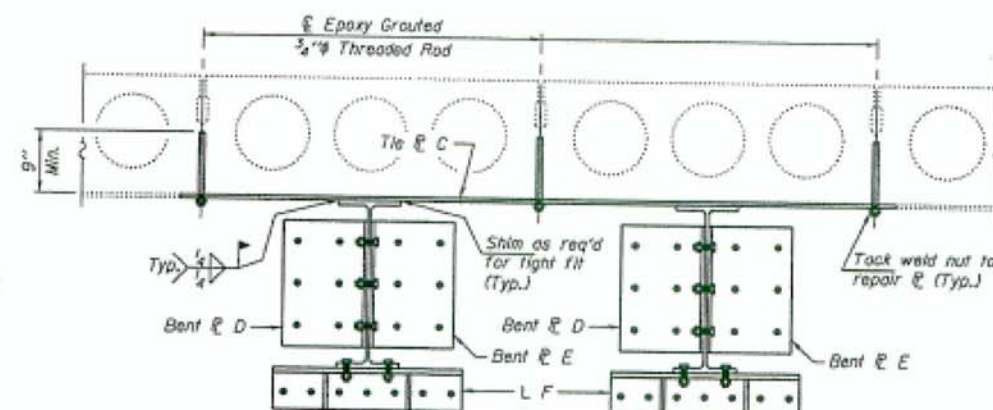


EXISTING STRUCTURAL STEEL SUPPORTS UNDER SN 027-0072 SHALL BE SALVAGED AND DELIVERED TO THE ASHKUM MAINTENANCE YARD BY THE CONTRACTOR. THE COST OF SALVAGING AND DELIVERING THE STEEL SUPPORTS SHALL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING SUPERSTRURE

FILE NAME :	USER NAME : *USERS*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURAL STEEL SUPPORTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILEL		DRAWN -	REVISED -			796	1106 BR-1 & BR-4BR	FORD	78	60	
MODELNAME		CHECKED -	REVISED -			CONTRACT NO. 66980					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

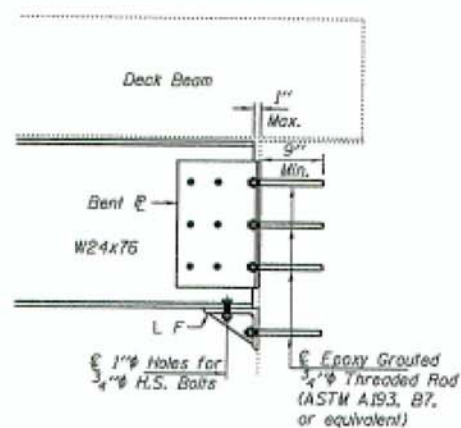


TYPICAL SECTION THRU SPAN 1, BEAMS 3 & 6

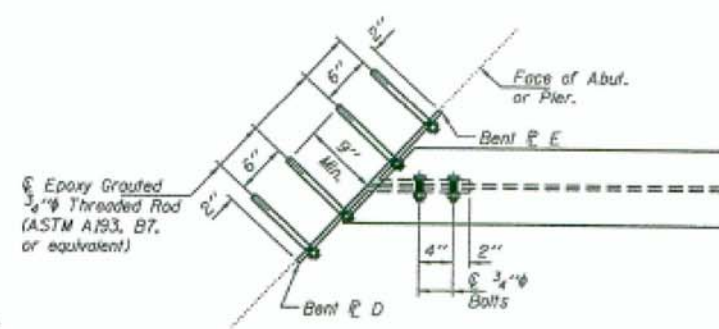


SECTION THRU SPAN 1, BEAM 9

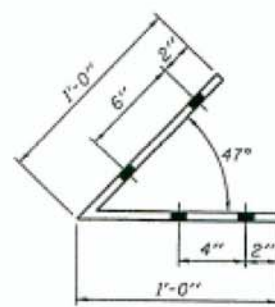
SECTION THRU SPAN 3, BEAMS 4 & 5



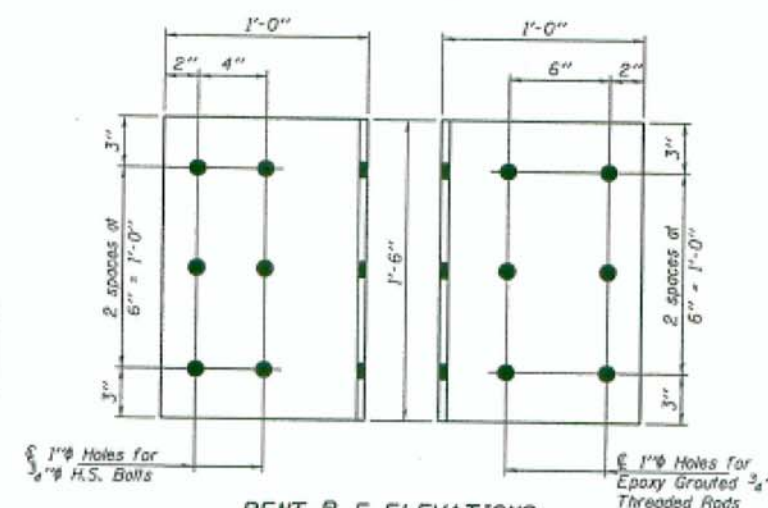
SECTION A-A



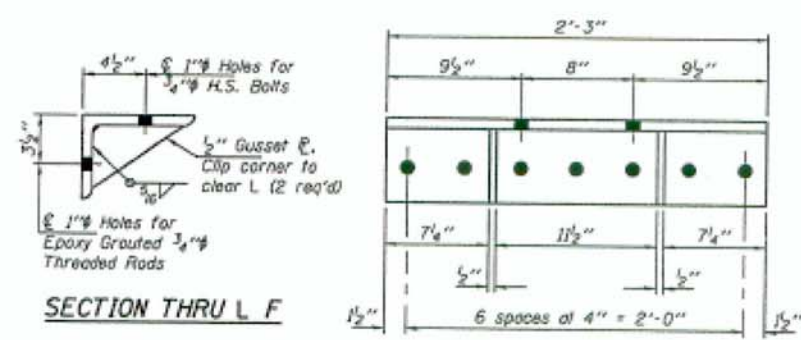
TYPICAL SECTION AT END OF SUPPORT BEAMS



BENT PLATE E
1/2" x 1'-6" x 2'-0"
(10 Required)

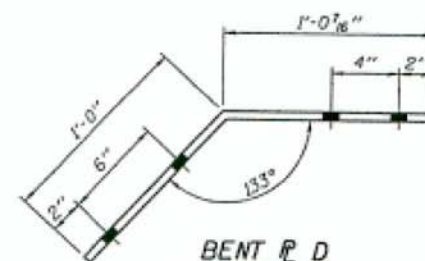


BENT PLATE E ELEVATIONS

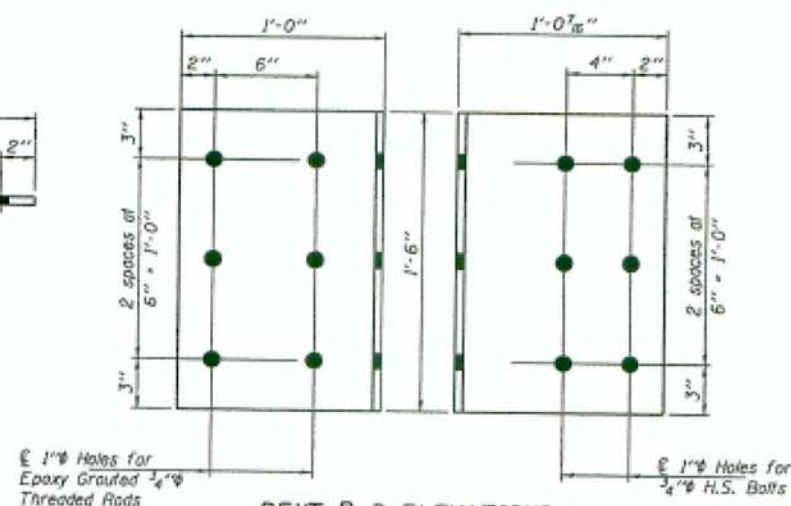


SECTION THRU L F

L F
L 8 x 6 x 3/4 x 2'-3"
(10 Required)



BENT PLATE D
1/2" x 1'-6" x 2'-0 7/16"
(10 Required)

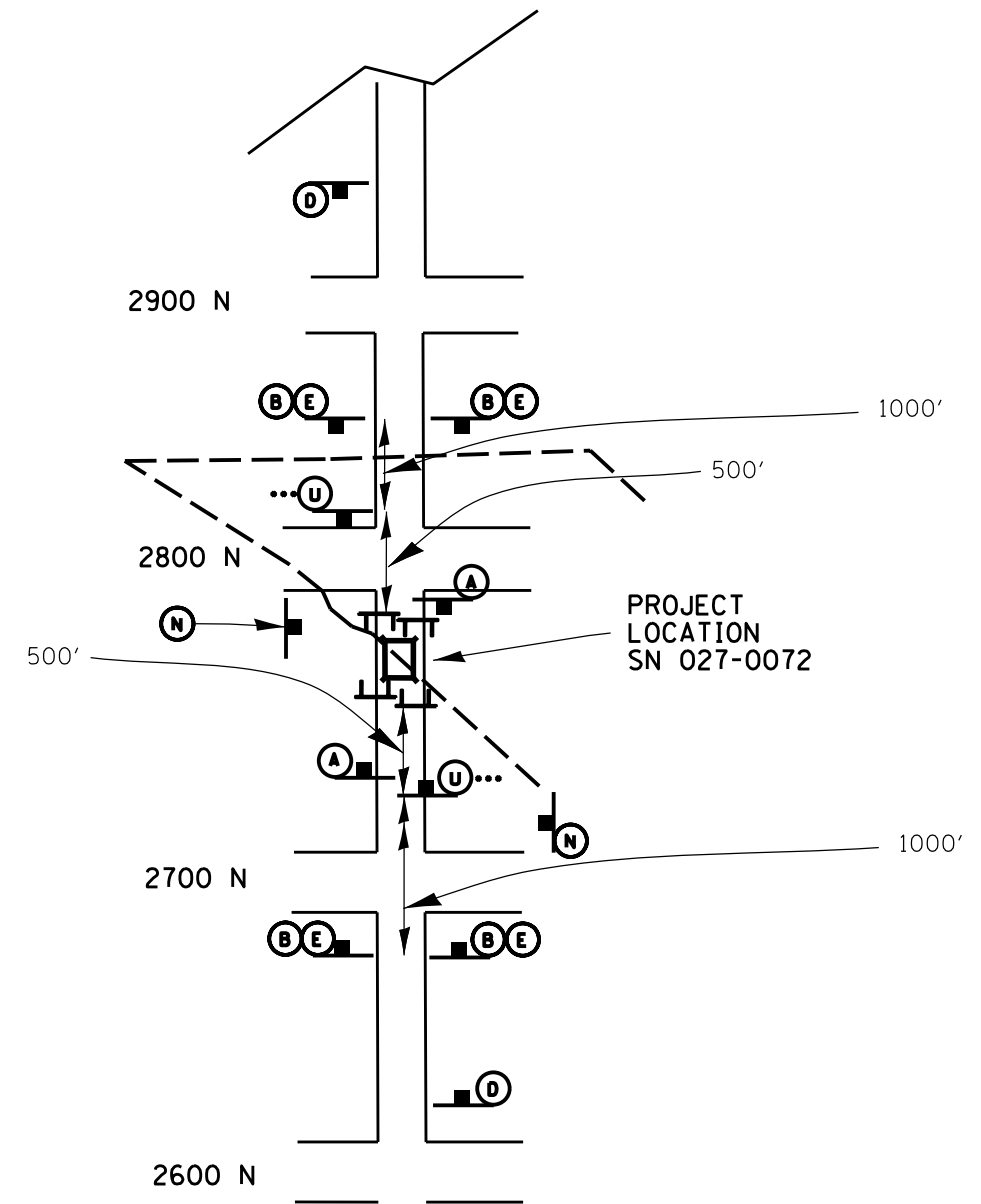
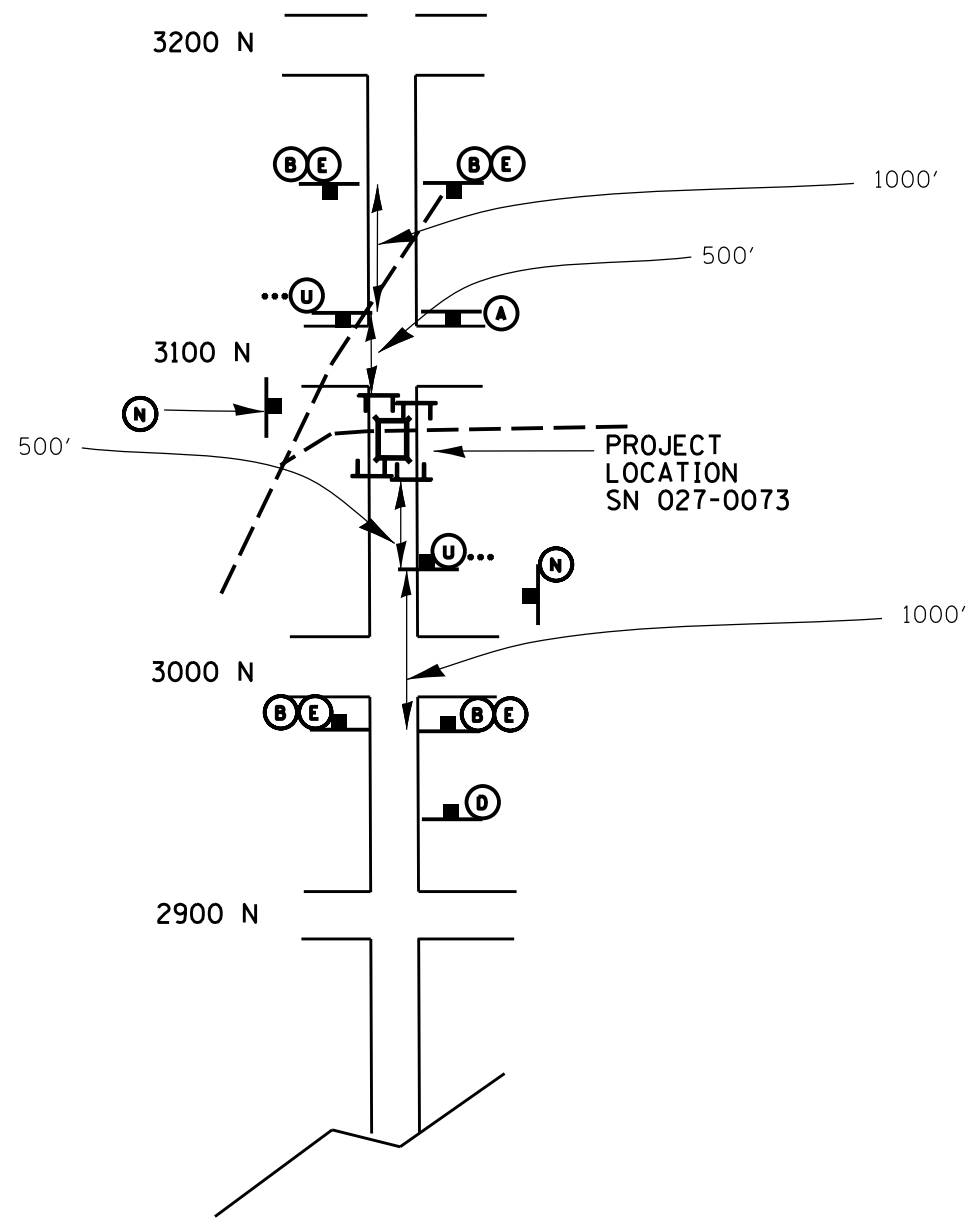


BENT PLATE D ELEVATIONS

FOR INFORMATION ONLY

EXISTING STRUTURAL STEEL SUPPORTS UNDER SN 027-0072 SHALL BE SALVAGED AND DELIVERED TO THE ASHKUM MAINTENANCE YARD BY THE CONTRACTOR. THE COST OF SALVAGING AND DELIVERING THE STEEL SUPPORTS SHALL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING SUPERSTRURE

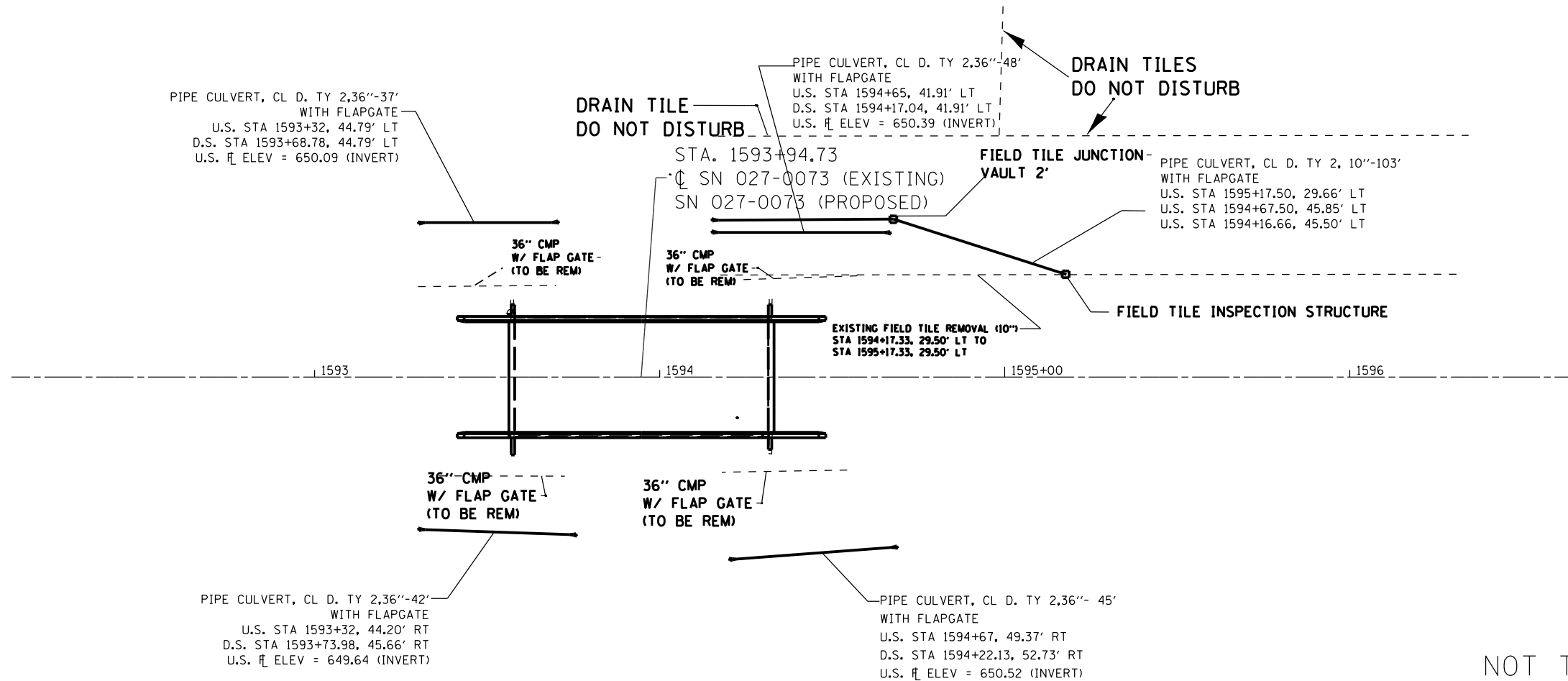
FILE NAME :	USER NAME : \$USERS	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURAL STEEL SUPPORTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILE\$		DRAWN -	REVISD -			796	1106 BR-1 & BR-41BR	FORD	78	61	
\$MODELNAME\$		CHECKED -	REVISD -			CONTRACT NO. 66980					
		DATE -	REVISD -			ILLINOIS FED. AID PROJECT					
		PLOT SCALE : \$SCALE\$		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____							



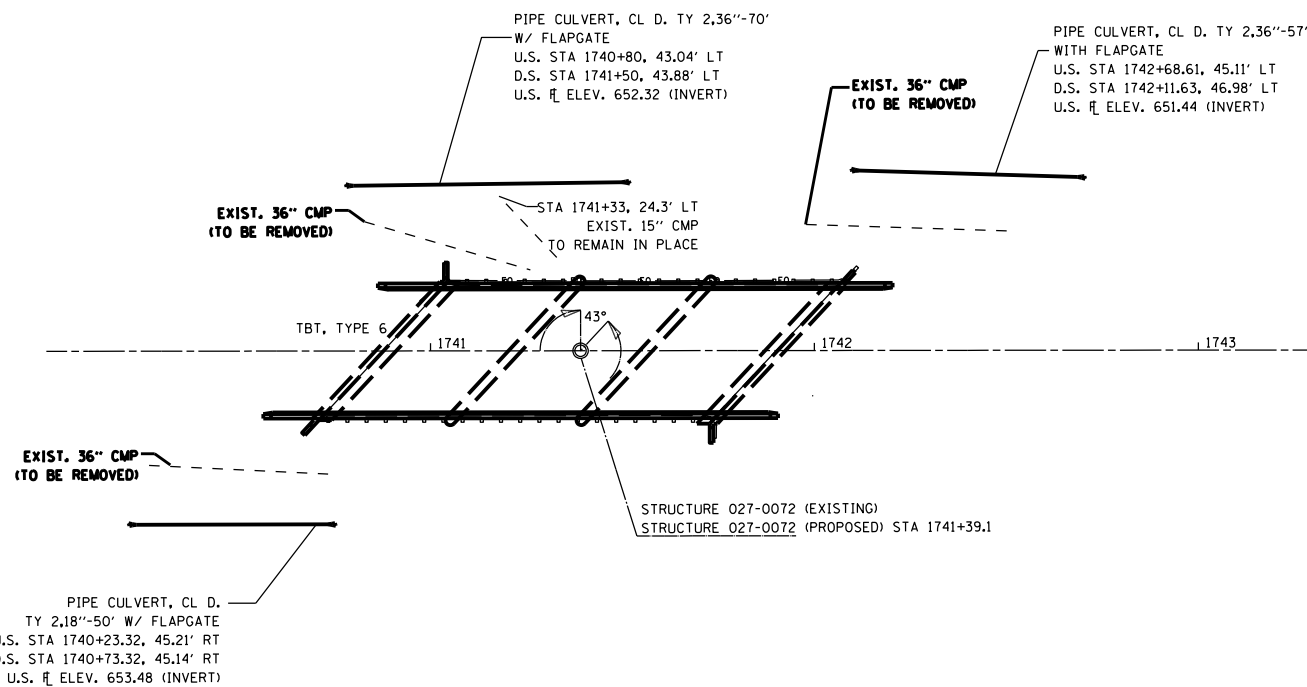
FOR DISTANCE REQUIREMENTS OF
 "B" AND "U" SIGN ASSEMBLIES
 REFER TO STANDARD B.L.R. 22-7
 AND PLAN NOTE #3 ON SHEET NO. 19

NOT TO SCALE

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = *SCALE*	CHECKED - ___	REVISED - ___				796	1106 BR-1 & BR-41BR	FORD	78	62
	PLOT DATE = *DATE*	DATE - ___	REVISED - ___		SCALE: _____ SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 66980				
							ILLINOIS FED. AID PROJECT				

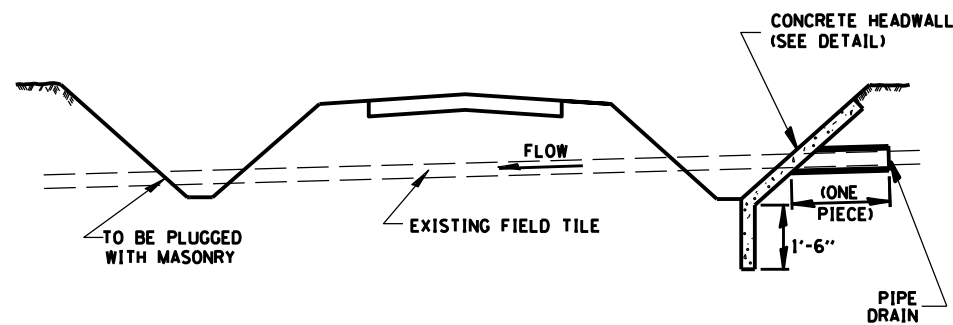
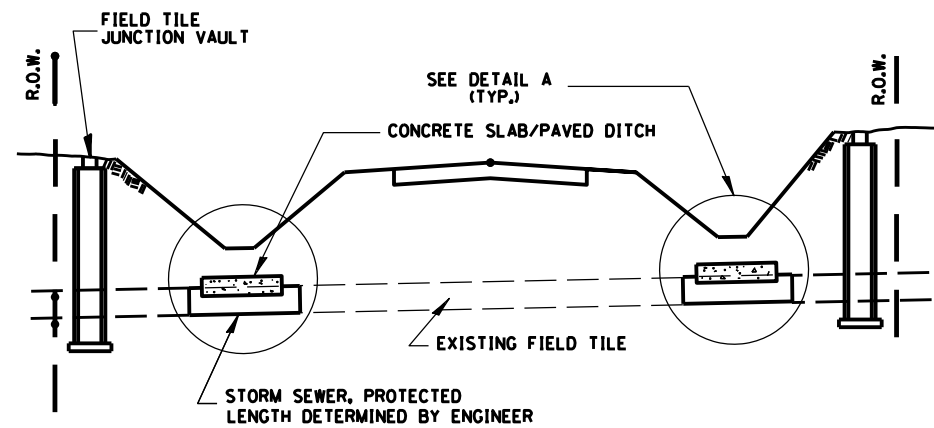


NOT TO SCALE

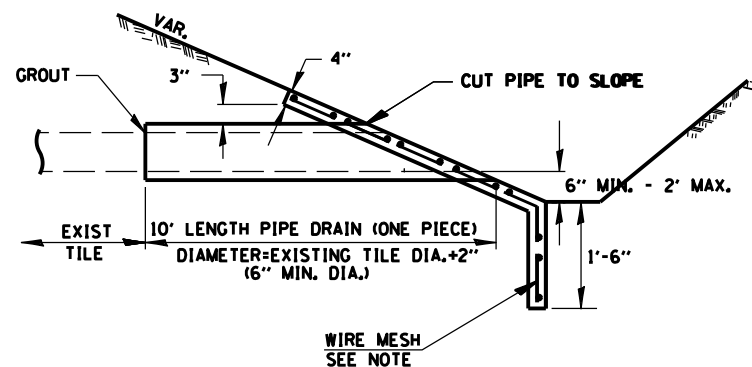
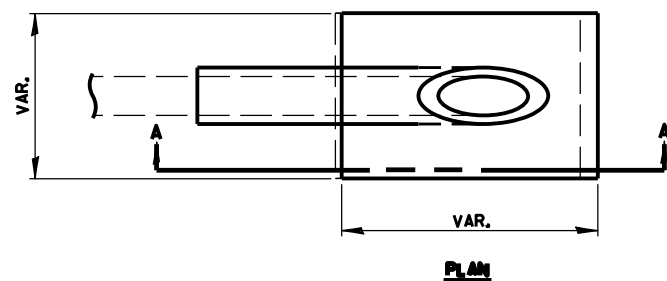


NOT TO SCALE

FILE NAME = *FILE*	USER NAME = *USER*	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAILS SN 027-0072 & 027-0073	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = *SCALE*	DRAWN - ___	REVISED - ___			796	1106 BR-1 & BR-41BR	FORD	78	63	
	PLOT DATE = *DATE*	CHECKED - ___	REVISED - ___			CONTRACT NO. 66980					
		DATE - ___	REVISED - ___			ILLINOIS FED. AID PROJECT					

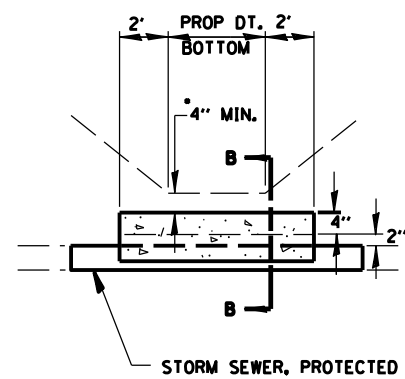


FIELD TILE REPLACEMENT



SECTION A-A

CLASS SI CONCRETE HEADWALLS



DETAIL A

NO SCALE

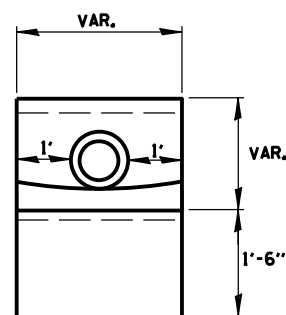
* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

NOTES

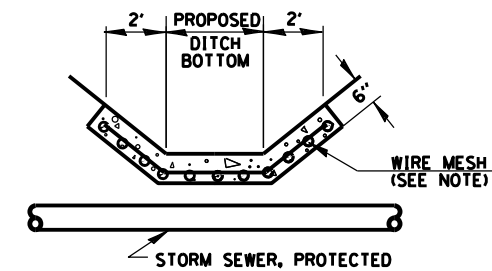
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

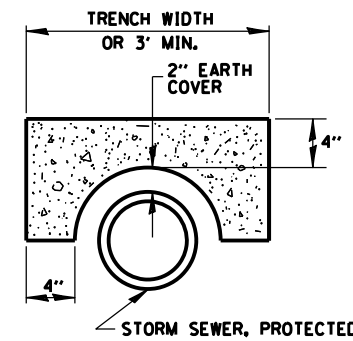


END VIEW

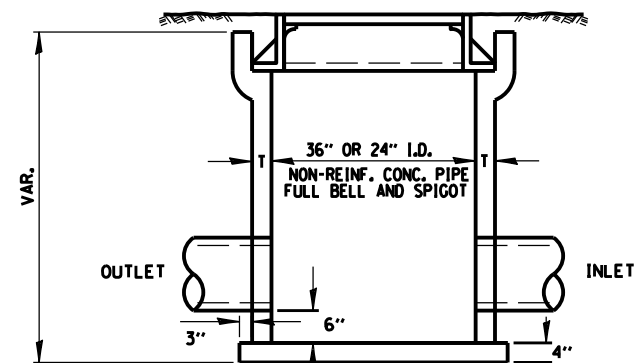


DETAIL C

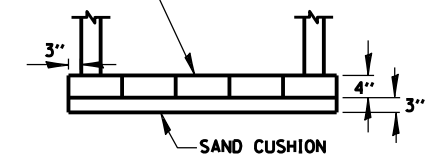
NO SCALE



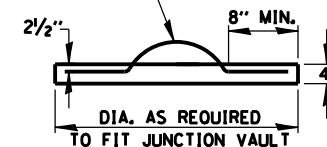
SECTION B-B



CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE



1 NO. 4 BAR LIFT LOOP

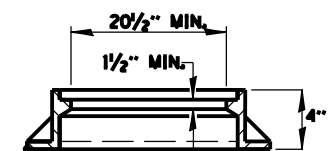
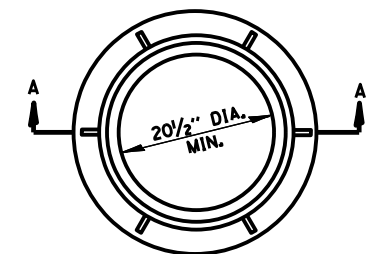


FIELD TILE JUNCTION VAULT

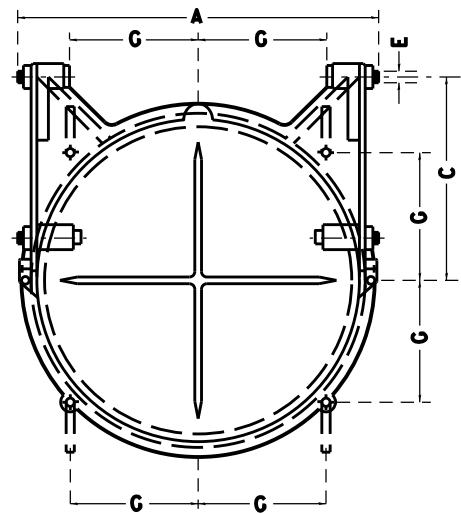
ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8"
CONCRETE BUILDING BRICK, GRADE A	8"

NOTES

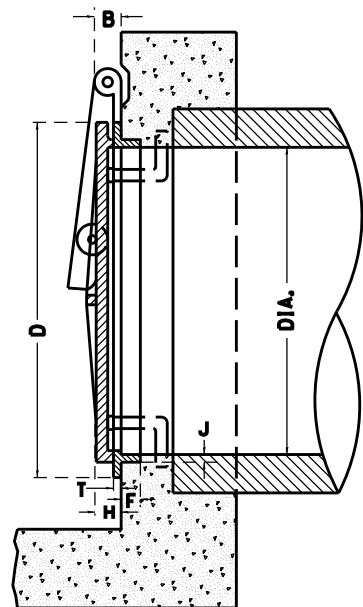
1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.



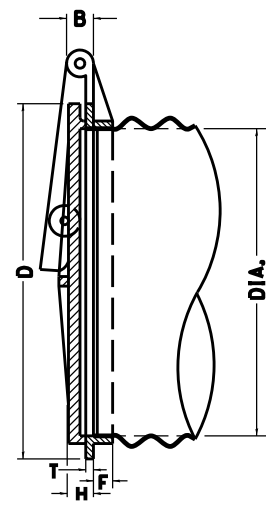
SECTION A-A



FRONT ELEVATION



SECTION



SECTION SHOWING METHOD OF APPLICATION TO CORRUGATED METAL PIPE

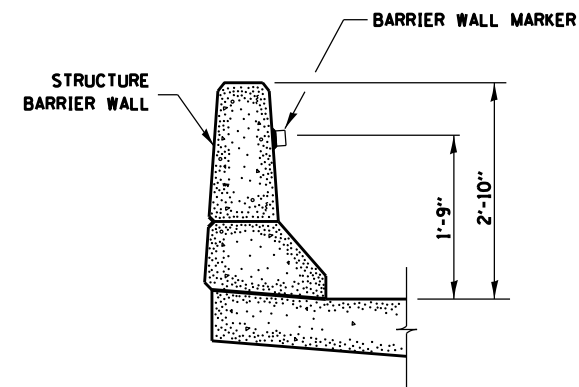
IT IS INTENDED THAT THE AUTOMATIC FLAP GATES SHALL BE A COMMERCIAL PRODUCT PRODUCED BY A RELIABLE MANUFACTURER. THE GATE MAY BE MADE OF CAST IRON, CAST STEEL OR OTHER SUITABLE MATERIALS. THE DESIGN MAY DIFFER FROM THE DRAWING IF IT WILL WORK IN A SATISFACTORY, TROUBLE FREE MANNER AND WILL WITHSTAND THE WATER PRESSURE AT THE INSTALLATION LOCATION. THE GATE SHALL BE APPROVED BY THE ENGINEER.

THE SIZE OF AUTOMATIC FLAP GATES SHALL REFER TO THE DIAMETER OF THE OUTLET PIPE OR OPENING.

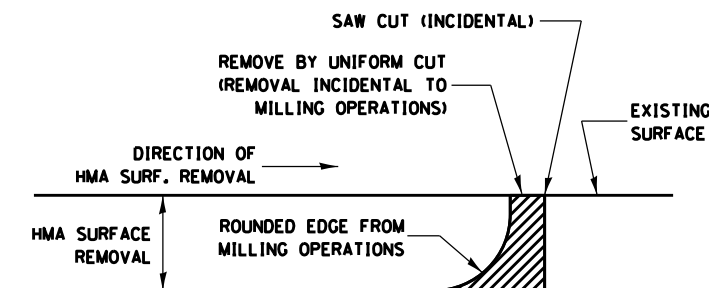
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR FLAP GATES OF THE SIZE SPECIFIED AND SHALL INCLUDE ALL MATERIALS AND COMPLETE INSTALLATION.

TABLE OF DIMENSIONS

DIAM	A	B	C	D	E	F	G	H	J	T
8"	10 3/4"	1 3/8"	5 1/16"	10"	1/2"	1 1/8"	3 9/16"	1 1/4"	3/8"	3/8"
10"	12 3/4"	1 3/8"	7 1/8"	12 1/4"	1/2"	1 1/8"	4 3/8"	1 1/2"	1/2"	7/16"
12"	14 3/4"	1 3/8"	8 1/2"	14 1/2"	1/2"	1 1/8"	5 1/8"	1 1/2"	1/2"	1/2"
14"	17 1/4"	1 3/8"	9 7/8"	16 3/4"	1/2"	1 1/4"	5 15/16"	1 1/2"	1/2"	9/16"
15"	17 3/4"	1 3/8"	10 5/8"	17 3/4"	1/2"	1 1/4"	6 1/4"	1 1/2"	1/2"	9/16"
16"	19 1/4"	1 3/8"	11 1/4"	18 3/4"	1/2"	1 1/4"	6 5/8"	1 1/2"	1/2"	9/16"
18"	22 1/4"	2"	12 5/8"	21"	3/4"	1 9/16"	7 1/16"	1 3/4"	9/16"	9/16"
20"	24 3/4"	2"	14 1/8"	23 3/4"	3/4"	1 3/8"	8 1/4"	1 3/4"	5/8"	5/8"
21"	25 1/4"	2"	14 7/8"	24 1/4"	3/4"	1 3/8"	8 9/16"	1 3/4"	5/8"	5/8"
24"	28 1/4"	2"	17"	27 1/2"	3/4"	1 1/2"	9 3/4"	1 3/4"	5/8"	5/8"
30"	35 1/4"	2 1/2"	20 1/2"	34"	1"	1 9/16"	12"	2"	1 1/16"	5/8"
36"	41 1/2"	2 1/2"	25"	40 7/8"	1"	2 1/16"	14 7/16"	2 1/4"	1 1/8"	11/16"
42"	47 1/2"	2 1/2"	29 3/4"	47"	1"	2 5/16"	16 5/8"	2 1/4"	1 1/8"	3/4"
48"	53 1/2"	2 1/2"	34"	54"	1"	2 3/4"	19 1/16"	2 1/4"	1 3/8"	3/4"
54"	60 3/4"	2 1/2"	38"	62 1/4"	1 1/4"	2 3/4"	22"	3"	1 1/2"	7/8"
60"	67"	2 1/2"	42"	68 1/2"	1 1/4"	2 3/4"	24 1/4"	3"	1 1/2"	15/16"
66"	73 3/8"	2 1/2"	47"	75"	1 1/4"	2 7/8"	26 1/2"	3"	1 1/2"	1"
72"	79"	2 1/2"	51"	82"	1 1/4"	3"	29"	3"	1 1/2"	1"
78"	86"	2 1/2"	55 1/4"	88 3/4"	1 1/4"	3 1/2"	31 3/8"	3"	1 5/8"	1 1/8"
84"	92 1/2"	3 1/2"	59 1/2"	95 1/2"	1 1/2"	3 1/2"	33 3/4"	3"	1 3/4"	1 1/4"

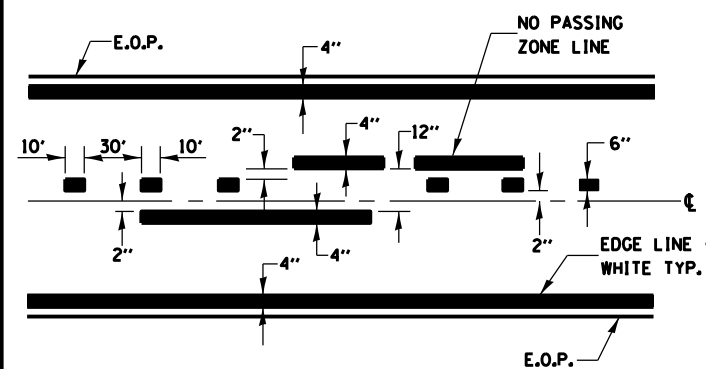


BARRIER WALL MARKER

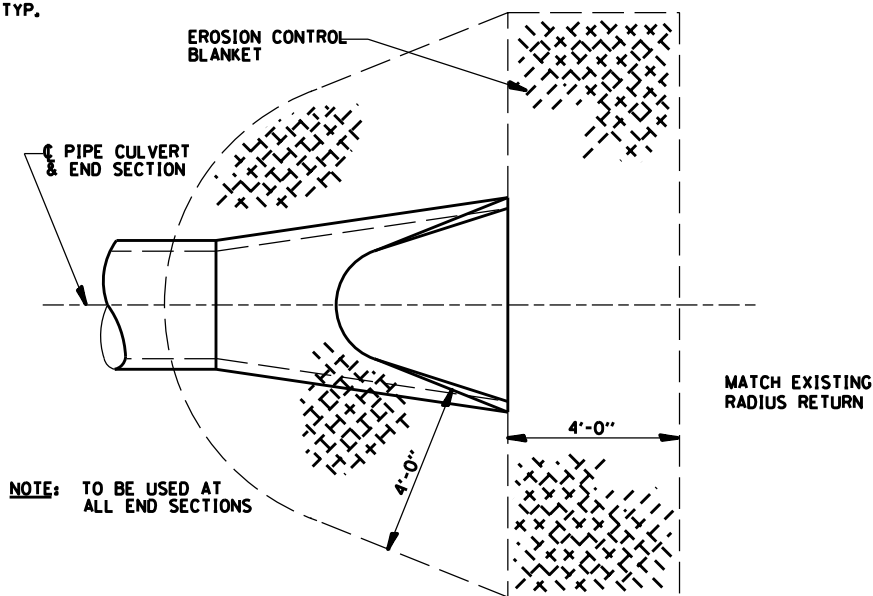


NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

HMA DETAIL AT BUTT JOINTS



PAVEMENT MARKING (SEE TYPICAL SECTIONS)



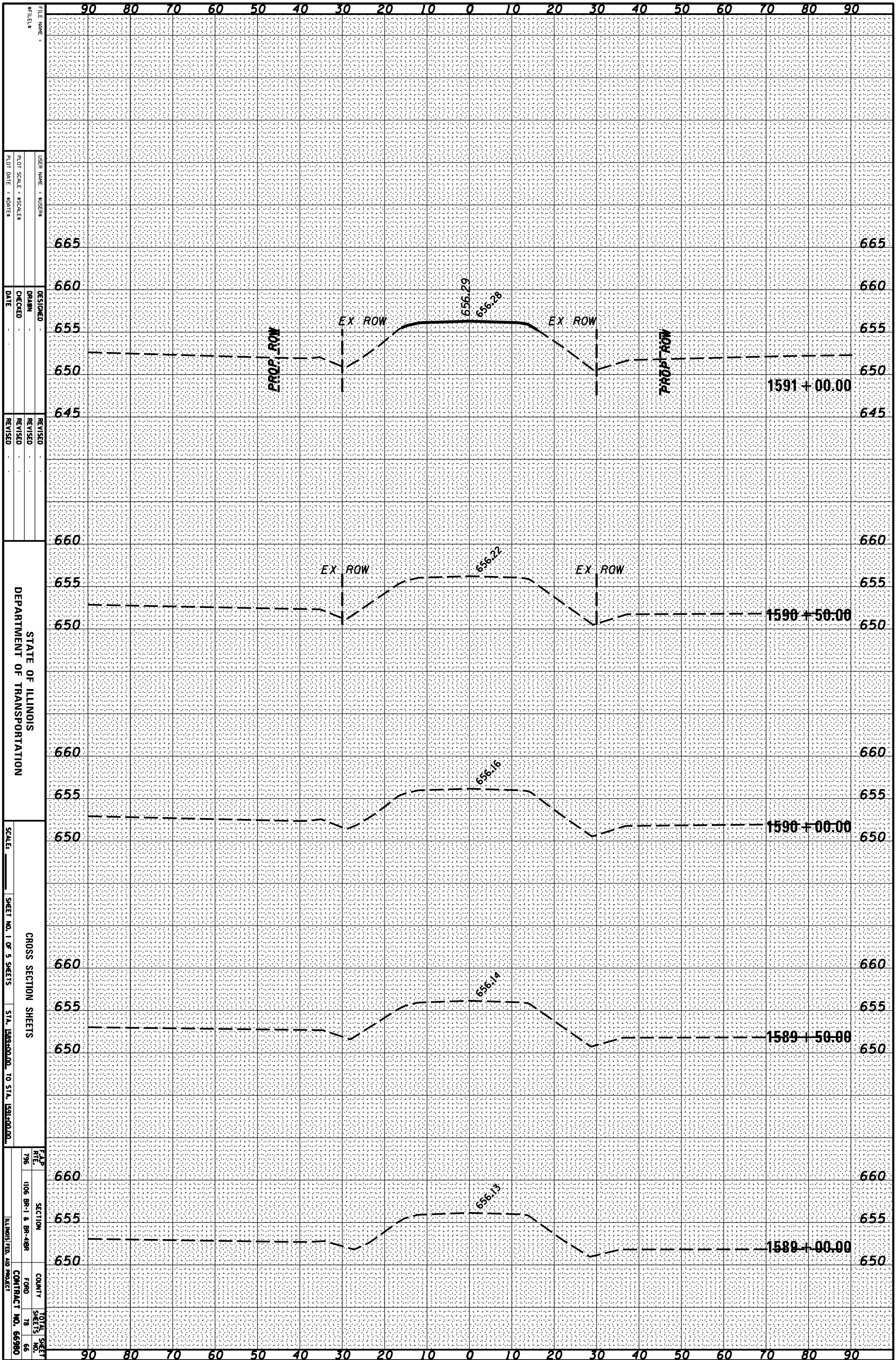
NOTE: TO BE USED AT ALL END SECTIONS

NOTE: PRC FLARED END SECTION SHOWN. TREATMENT SAME FOR OTHER END SECTIONS.

DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION

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

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



FILE NAME: _____
 USER NAME: SUSENS
 PLOT SCALE: 80 FEET = 1 INCH
 PLOT DATE: 8/20/15

DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 DATE: _____

REVISOR: _____
 REVISION: _____
 REVISION: _____
 REVISION: _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

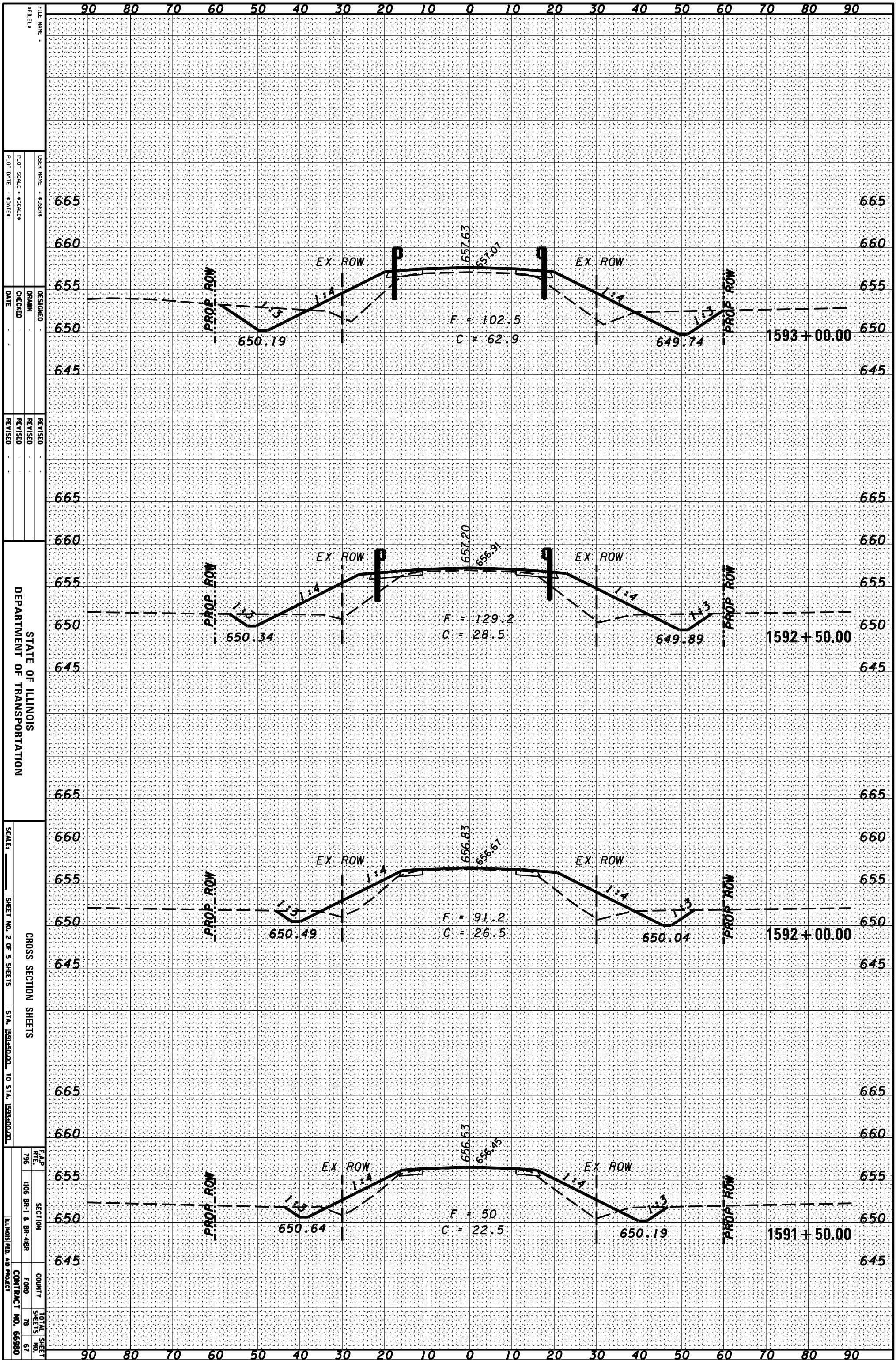
SCALE: _____
 SHEET NO. 1 OF 5 SHEETS
 STA. 1589+00.00 TO STA. 1591+00.00

CROSS SECTION SHEETS

F&P R/E: 796
 SECTION: 1106 BR-1 & BR-4BR
 COUNTY: FORD
 TOTAL SHEET NO.: 78
 SHEET NO.: 66
 ILLINOIS FPD AID PROJECT CONTRACT NO. 66980

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

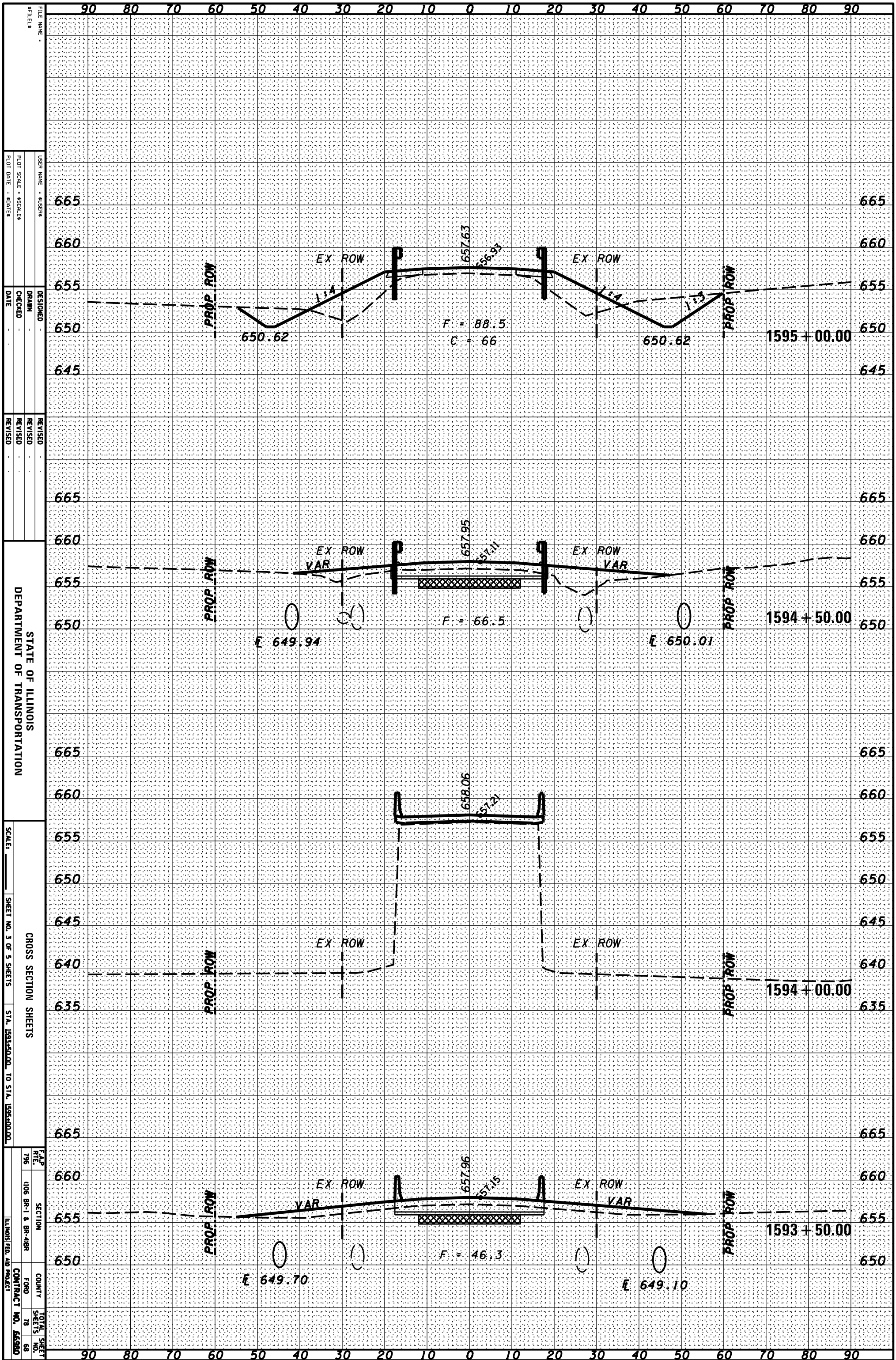
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NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME: _____
 USER NAME: SUSENS
 PLOT SCALE: 80 FEET
 PLOT DATE: 8/20/15
 DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 DATE: _____
 REVISIONS:
 REVISION NO. _____
 REVISION DATE _____
 REVISION DESCRIPTION _____
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SCALE: _____
 SHEET NO. 2 OF 5 SHEETS
 STA. 1591+50.00 TO STA. 1593+00.00
 CROSS SECTION SHEETS
 F&P RITE SECTION COUNTY TOTAL SHEETS NO.
 796 1106 BR-1 & BR-4BR FORD 78 67
 ILLINOIS FED. AID PROJECT CONTRACT NO. 66980

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

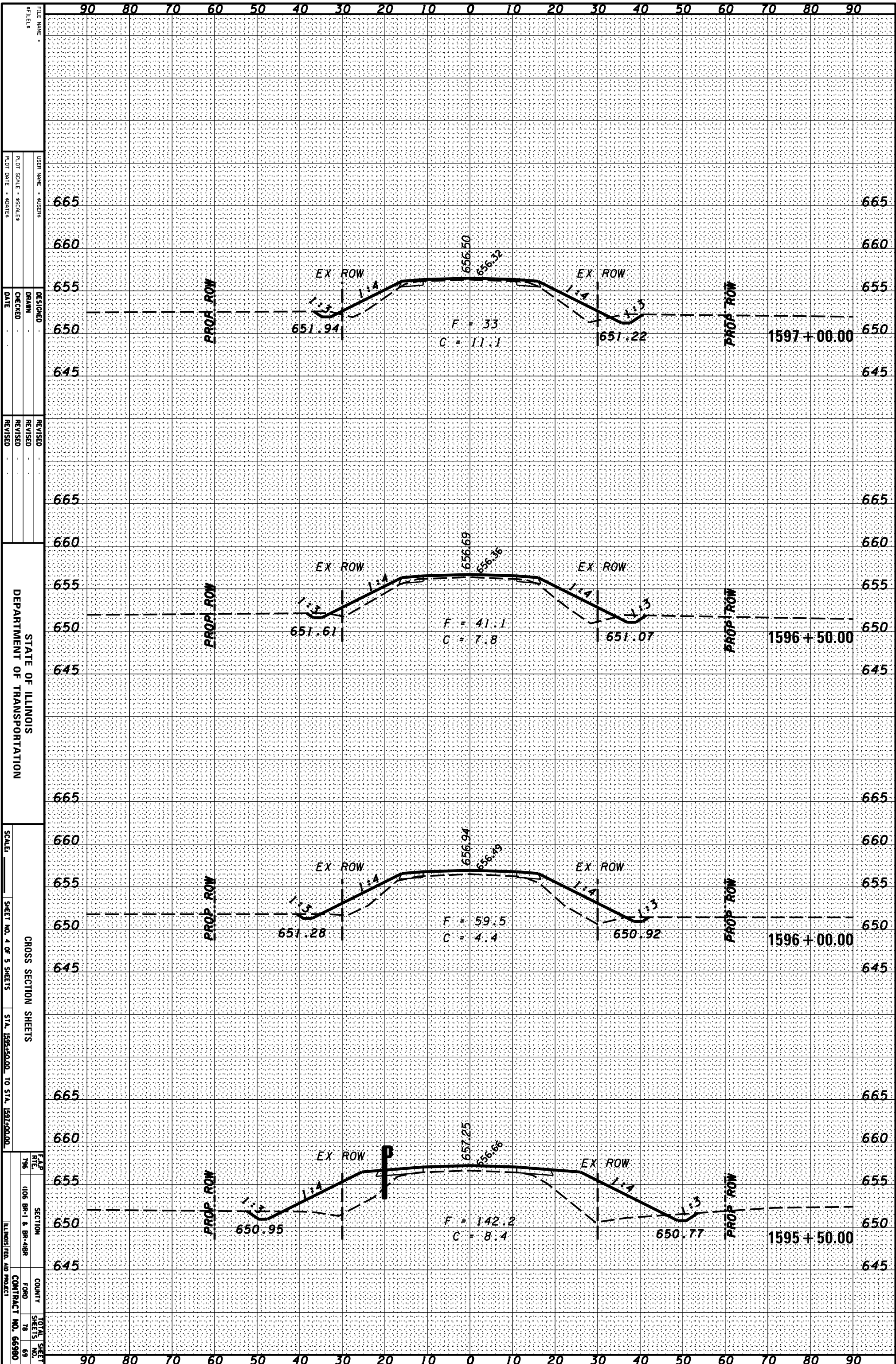
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



FILE NAME: _____
 USER NAME: SUSENS
 PLOT SCALE: 80 FEET
 PLOT DATE: 8/20/15
 DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 DATE: _____
 REVISIONS: _____
 REVISOR: _____
 REVISION: _____
 DEPARTMENT OF TRANSPORTATION
 SCALE: _____
 SHEET NO. 3 OF 5 SHEETS
 STA. 1593+50.00 TO STA. 1595+00.00
 CROSS SECTION SHEETS
 F&P R/E: 796
 SECTION: 1106 BR-1 & BR-4BR
 COUNTY: _____
 FORD: 78
 TOTAL SHEET NO.: 68
 ILLINOIS FLD. AID PROJECT CONTRACT NO. 663880

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME: _____
 USER NAME: SUSENS
 PLOT SCALE: 80 FEET = 1 INCH
 PLOT DATE: 8/20/15
 DESIGNED: _____
 DRAWN: _____
 CHECKED: _____
 DATE: _____
 REVISIONS:
 REVISION NO. _____ DATE _____ BY _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

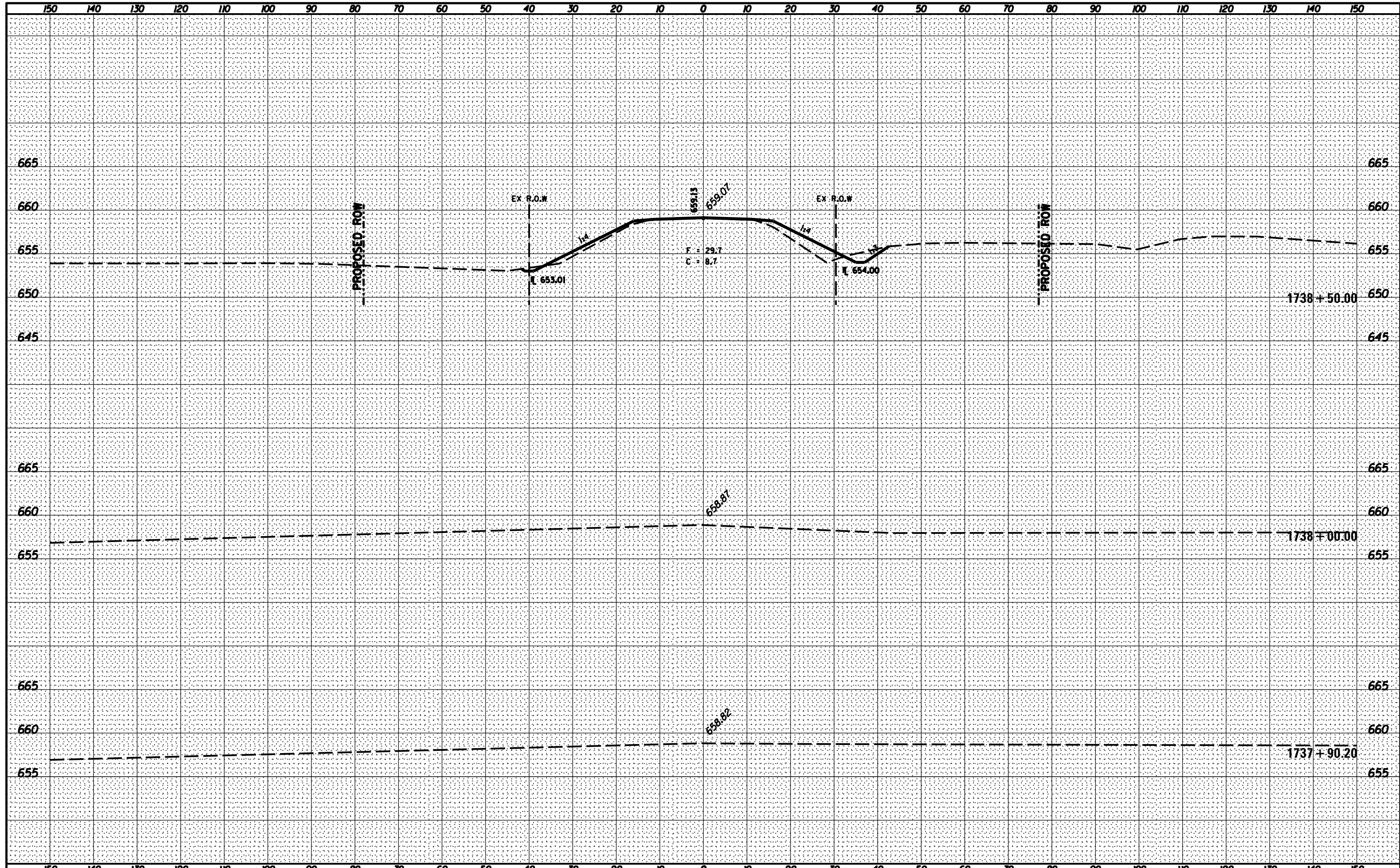
CROSS SECTION SHEETS
 STA. 1595+50.00 TO STA. 1597+00.00

SHEET NO. 4 OF 5 SHEETS

F&P R/E: 796
 SECTION: 1106 BR-1 & BR-4BR
 COUNTY: _____
 TOTAL SHEETS: 78
 SHEET NO.: 69
 ILLINOIS FLD. AID PROJECT CONTRACT NO. 66980

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

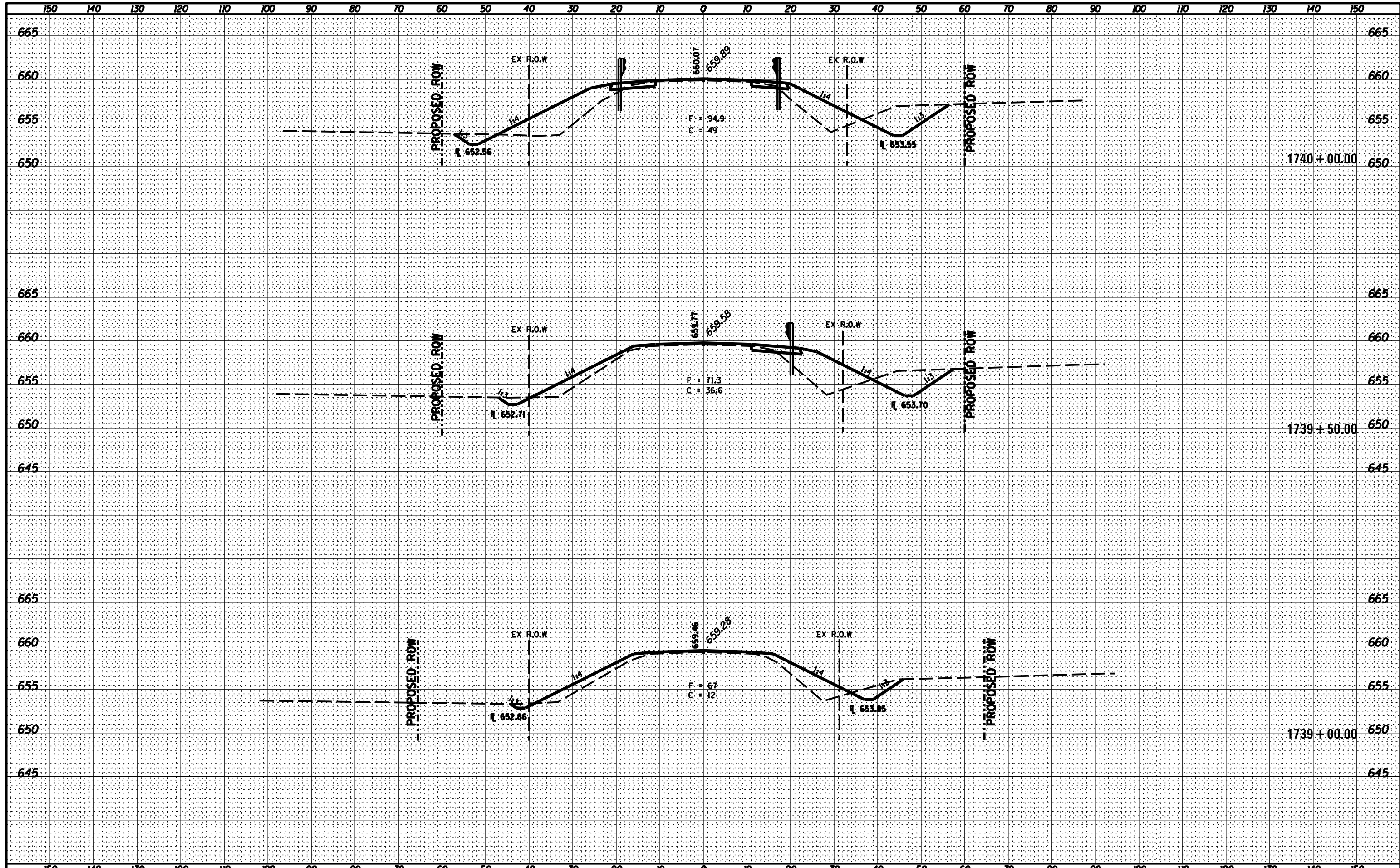
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BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	



FILE NAME =	USER NAME = *USERS*	DESIGNED -	REVISÉ -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISÉ -		796	1106 BR-1 & BR-41BR	FORD	78	71			
		CHECKED -	REVISÉ -		SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. 1737+90.20 TO STA. 1738+50.00			CONTRACT NO. 66980				
		DATE -	REVISÉ -					ILLINOIS FED. AID PROJECT				

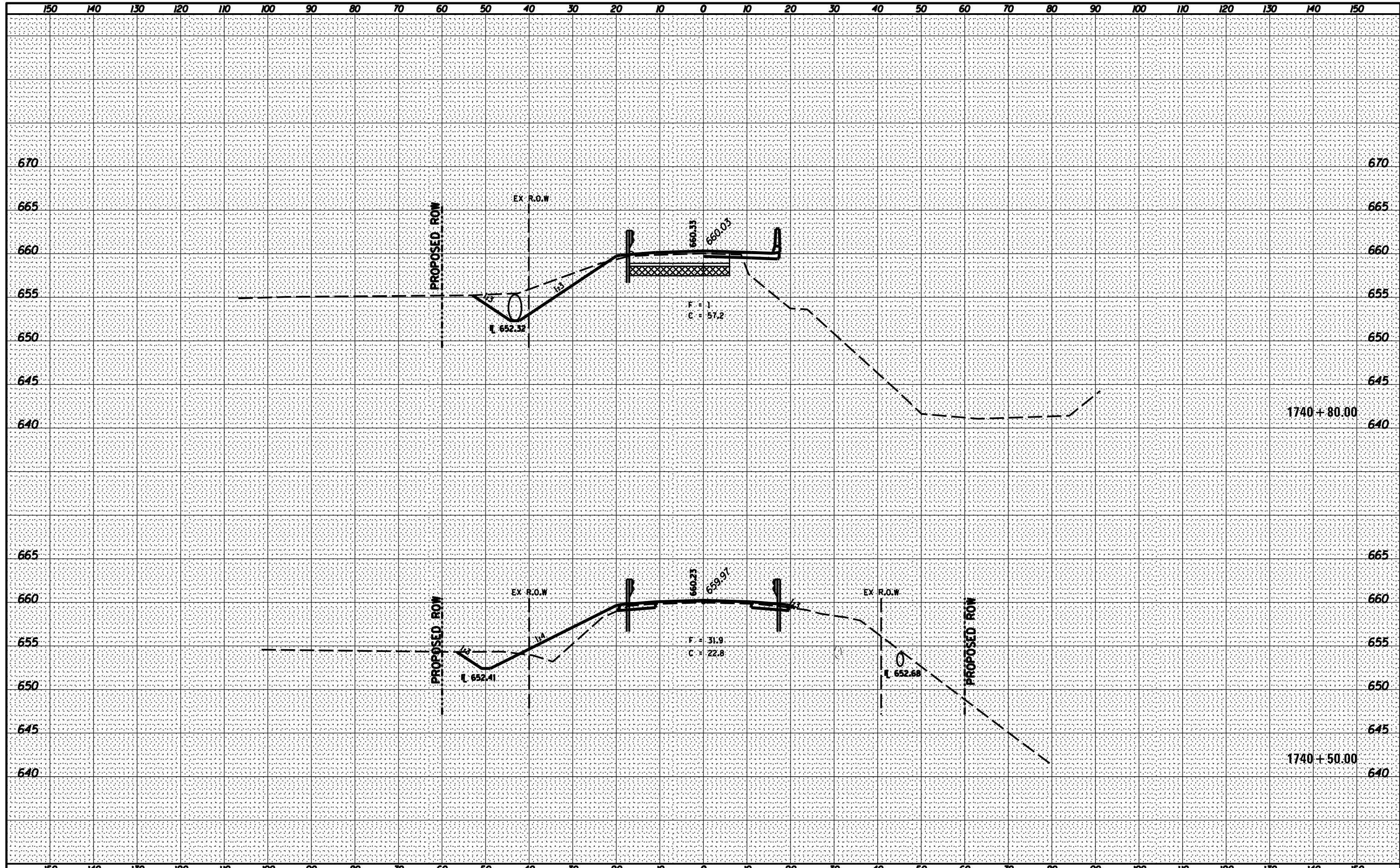
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BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

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



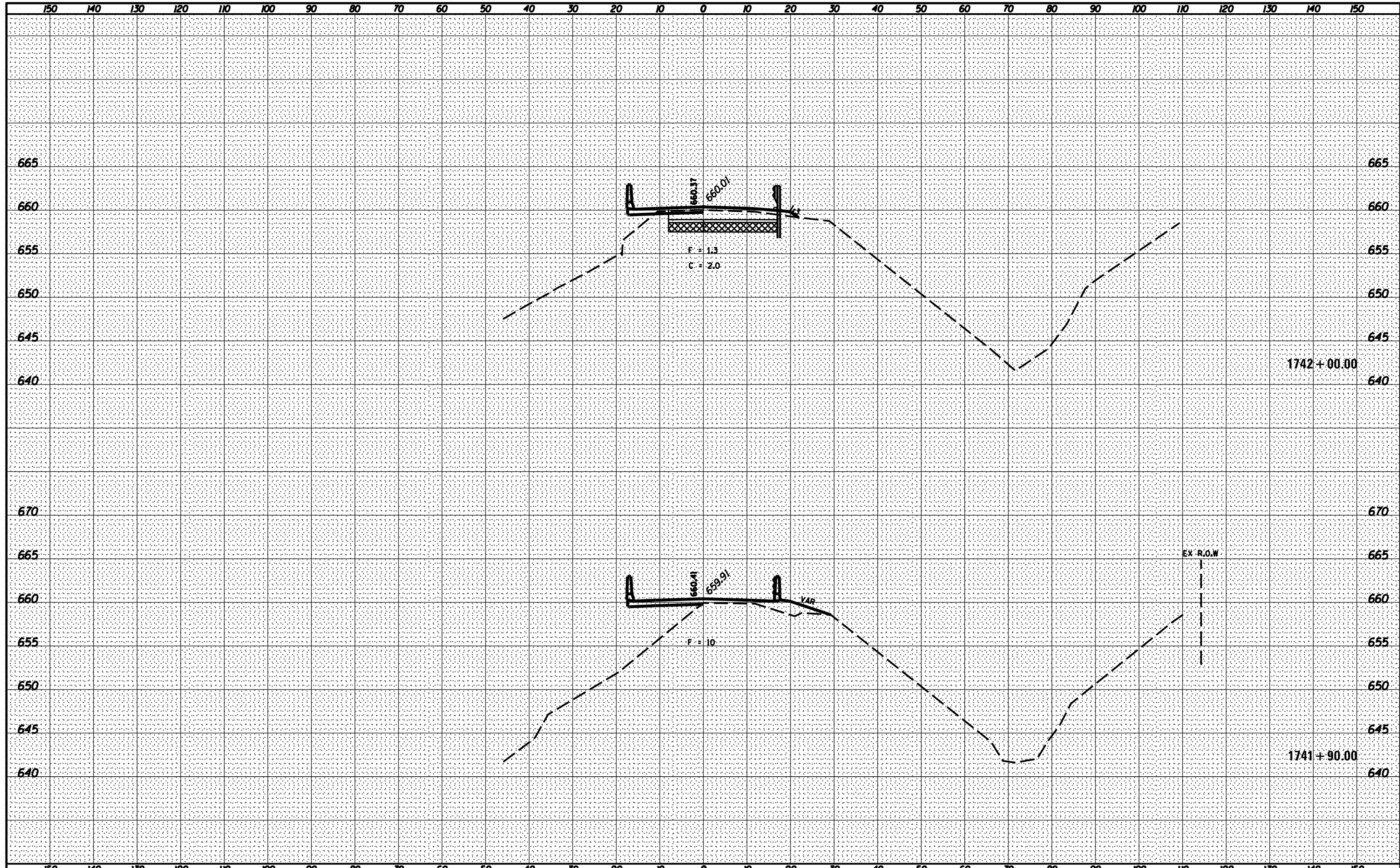
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BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	

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



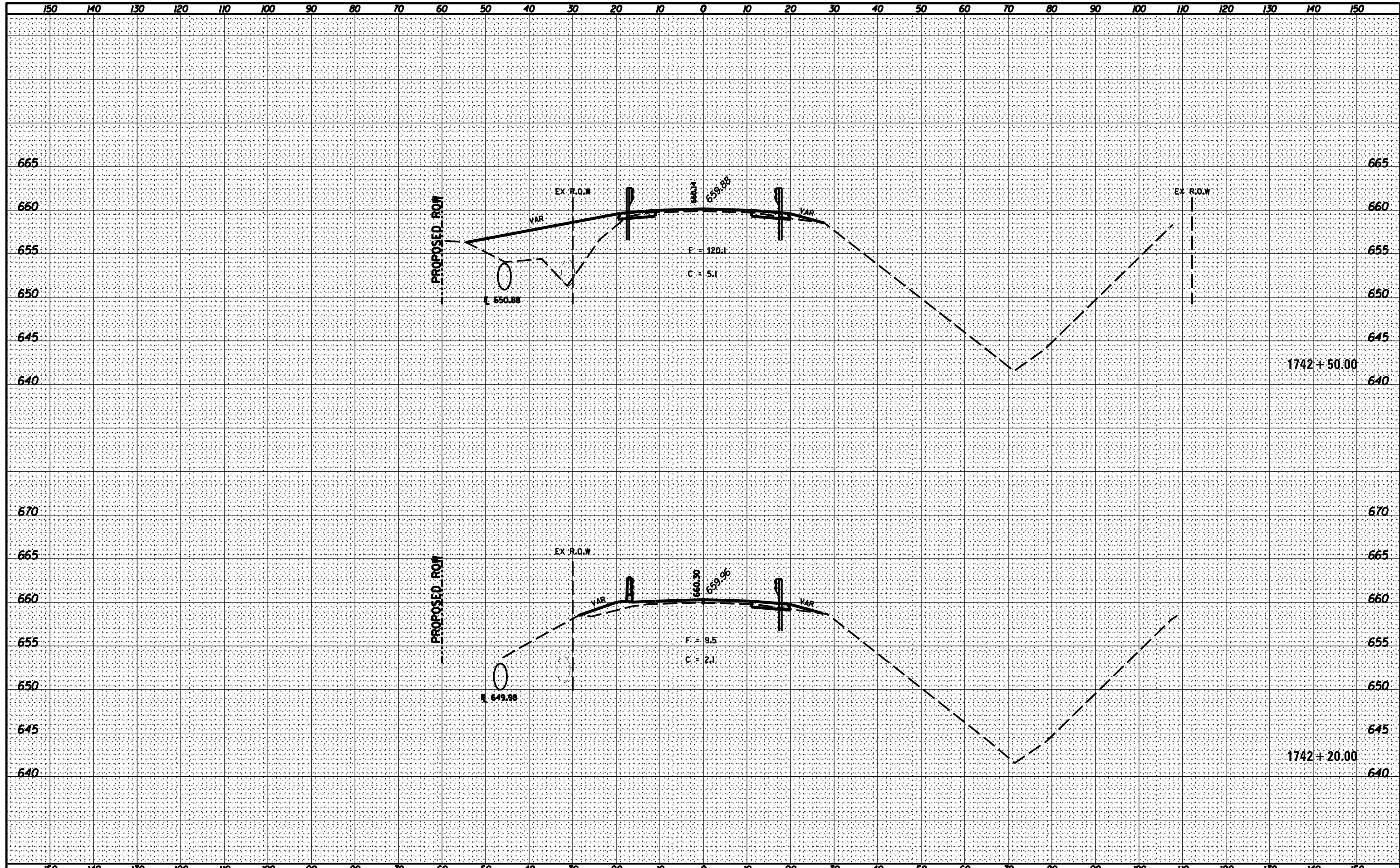
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BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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



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

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



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

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

