

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	*	FORD	92	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.	66698	

(107)BR & BR-1, (108)BR & BR-1

D-93-046-06 P-93-071-98 P-93-070-98 P-93-004-05
D-93-051-04 P-93-051-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 798 (IL RTE 115)
SECTION (107)BR&BR-1; (108)BR&BR-1
PROJECT ACF-ACBRF-0798(004)
FORD COUNTY
C-93-026-07

REMOVAL AND REPLACEMENT OF FOUR STRUCTURES OVER UNNAMED DITCHES
ON IL 115 BETWEEN PIPER CITY TO ROBERTS

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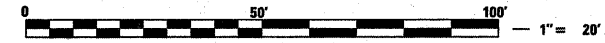
FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL
2009 ADT = 850
P.V. = 85.0% S.U. = 7.5% M.U. = 7.5%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 28, 2008
George Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 3, 2008
Eric E. Harnett
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

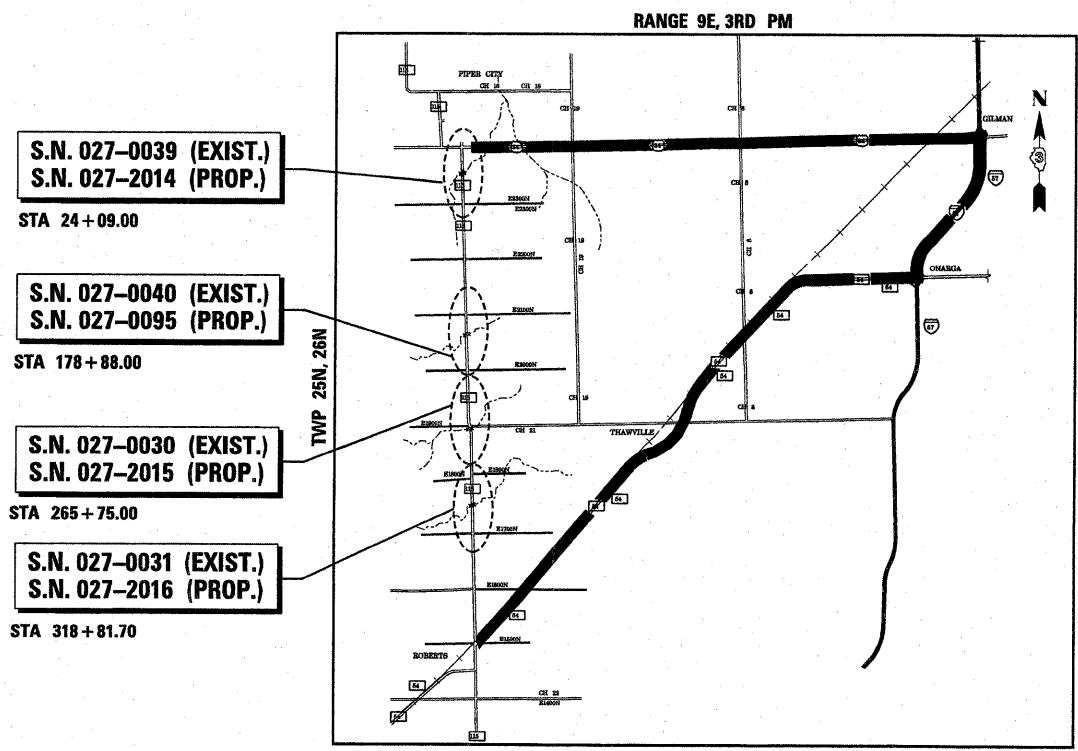
October 3, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



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

DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: JOSEPH KANNEL
UNIT CHIEF: MICHELE LINDEMANN
TOWNSHIP: LYMAN, BRENTON
CONTRACT NO. 66698



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 2506 FT. = 0.475 MI
NET LENGTH = 2506 FT. = 0.475 MI.

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THE TOP 6 INCHES OF TOPSOIL SHALL BE STRIPPED FROM ALL DISTURBED AREAS OUTSIDE OF THE EXISTING BRIDGE ABUTMENTS. THIS MATERIAL SHALL BE STOCKPILED AT A LOCATION APPROVED BY THE ENGINEER AND REPLACED AFTER MAJOR GRADING OPERATIONS ARE COMPLETED. THIS WORK SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT. SEE EARTHWORK QUANTITIES LEGEND THIS SHEET.

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.

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 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.

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

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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 EARTH EXCAVATION.

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.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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 OR THE COPY INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08	GAL / SQ YD OR
	0.375	GAL / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: EASTERN ILLINI ELECTRIC & VERIZON NORTH, INC.

THE SIGNS DISPLACED BY SHOULDER WIDENING ARE TO BE REINSTALLED IN LOCATIONS AS DETERMINED BY THE ENGINEER AND THE COST SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

STANDARDS

BLR 22-5	TYPICAL APP OF T.C.D. RURAL LOCAL HIGHWAY (2-LANE 2-WAY RURAL TRAF.) (ROAD CLOSED TO THRU TRAFFIC)
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420401-06	BRIDGE APPROACH PAVEMENT
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RS OR WIDENING & RS PROJECTS
515001-02	NAME PLATE FOR BRIDGES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401	METAL END SECTION FOR PIPE CULVERTS
601101	CONCRETE HEADWALL FOR PIPE DRAINS
609006-03	BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
630001-07	STEEL PLATE BEAM GUARDRAIL
630101-07	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-05	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-06	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
665001-01	WOVEN WIRE FENCE
666001	RIGHT-OF-WAY MARKERS
667101	PERMANENT SURVEY MARKERS
701001-01	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 4.5 m (15') AWAY
701006-02	OFF-ROAD OPERATIONS 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-01	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS P 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS P 45 MPH
701901	TRAFFIC CONTROL DEVICES
720011	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
780001-01	TYPICAL PAVEMENT MARKINGS

COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Rick Powell
DISTRICT STUDIES & PLANS ENGINEER

DATE: 8-28-08

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = carpenterd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\carpenterd\dms30072\306698-shr-cover.dgn		DRAWN -	REVISED -						92	2	
		CHECKED -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
		DATE -	REVISED -			CONTRACT NO.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES				80%/20% FED./STATE			
CODE NO.	CONSTRUCTION CODE TYPE: ITEM	UNIT	TOTAL QUANT	X088-2A	X088-2A	X088-2A	X020-2A
				027-2015 ACBRF QUANT	027-2016 ACBRF QUANT	027-2014 ACF QUANT	027-0095 ACF QUANT
20200100	EARTH EXCAVATION	CU YD	815	320	170	50	275
20300100	CHANNEL EXCAVATION	CU YD	390				390
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1386	590	284	512	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	378.8	44	37	227	70.8
21400100	GRADING AND SHAPING DITCHES	FOOT	3266	1062	1100	1104	
25000300	SEEDING, CLASS 3	ACRE	1.68	.37	.44	.37	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	150	33	39	33	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	150	33	39	33	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	150	33	39	33	45
25100630	EROSION CONTROL BLANKET	SQ YD	10368	2582	2530	2836	2420
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	268	37	44	37	150
28000300	TEMPORARY DITCH CHECKS	EACH	38	10	9	10	9
28000400	PERIMETER EROSION BARRIER	FOOT	891	306	485	100	
28000500	INLET AND PIPE PROTECTION	EACH	6	2	1	3	
28100107	STONE RIPRAP, CLASS A4	SQ YD	1908	437	389	555	527
28200200	FILTER FABRIC	SQ YD	1908	437	389	555	527
31100500	SUB-BASE GRANULAR MATERIAL, TYPE A 6"	SQ YD	695	217	276	202	
35501327	HOT-MIX ASPHALT BASE COURSE, 10 3/4"	SQ YD	599	187	238	174	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	27				27
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	743	161	160	134	288
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	1	1	1	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	207	83	26	42	56
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1280	320	320	320	320
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	624	169	168	141	146
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	194				194
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	44				44
44000100	PAVEMENT REMOVAL	SQ YD	1112	231	355	225	301
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	3771	1162	1329	1280	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	71	10	23	20	18
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	2975	797	844	788	546
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1			
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1	
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1		1		

SUMMARY OF QUANTITIES (CONTINUED)				80%/20% FED./STATE			
CODE NO.	CONSTRUCTION CODE TYPE: ITEM	UNIT	TOTAL QUANT	X088-2A	X088-2A	X088-2A	X020-2A
				027-2015 ACBRF QUANT	027-2016 ACBRF QUANT	027-2014 ACF QUANT	027-0095 ACF QUANT
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1				1
50105200	REMOVE EXISTING CULVERTS	EACH	4	2	1		1
50200100	STRUCTURE EXCAVATION	CU YD	2850	867	515	1348	120
50300100	FLOOR DRAINS	EACH	8				8
50300225	CONCRETE STRUCTURES	CU YD	73.8				73.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	162.8				162.8
50300260	BRIDGE DECK GROOVING	SQ YD	252				252
50300300	PROTECTIVE COAT	SQ YD	540				540
50800105	REINFORCEMENT BARS	POUND	27890	5050	16370	6470	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	35130	790	350	1080	32910
51201400	FURNISHING STEEL PILES HP10X42	FOOT	766				766
51202305	DRIVING PILES	FOOT	766				766
51203400	TEST PILE STEEL HP10X42	EACH	2				2
51500100	NAME PLATES	EACH	4	1	1	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	187	51	70	66	
54011208	PRECAST CONCRETE BOX CULVERT 12' X 8'	FOOT	98	98			
54021006	PRECAST CONCRETE BOX CULVERT 10' X 6' (M273)	FOOT	64		64		
54021210	PRECAST CONCRETE BOX CULVERT 12' X 10' (M273)	FOOT	84			84	
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	42				42
54200223	PIPE CULVERTS, CLASS C, TYPE 1 18"	FOOT	77	77			
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	30		30		
54213447	END SECTIONS 12"	EACH	4				4
54213450	END SECTIONS 15"	EACH	2				2
54213453	END SECTIONS 18"	EACH	6	4	2		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	44				44
60100945	PIPE DRAINS 12"	FOOT	36				36
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	110				110
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	4				4
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1875	437.5	612.5	300	525
63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	225	100	75	50	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4				4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	10	2	4		4
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	6	2		4	

* SPECIALITY ITEM

* (107)BR & BR-1, (108)BR & BR-1

SUMMARY OF QUANTITIES (CONTINUED)				80%/20% FED/STATE			
CODE NO.	CONSTRUCTION CODE TYPE: ITEM	UNIT	TOTAL QUANT	X088-2A	X088-2A	X088-2A	X020-2A
				027-2015 ACBRF QUANT	027-2016 ACBRF QUANT	027-2014 ACF QUANT	027-0095 ACF QUANT
63200310	GUARDRAIL REMOVAL	FOOT	2417	500	869	558	490
66500105	WOVEN WIRE FENCE, 4'	FOOT	149		149		
66502300	WOVEN WIRE FENCE REMOVAL	FOOT	141		141		
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	19	3	8	8	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	1.5	1.5	1.5	1.5
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.25	0.25	0.25	0.25
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.25	0.25	0.25	0.25
70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	0.25	0.25	0.25	0.25
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5488	1716	1400	1200	1172
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	640	155	175	150	160
78200410	GUARDRAIL MARKERS, TYPE A	EACH	98	30	36	22	10
78200420	GUARDRAIL MARKERS, TYPE B	EACH	2				2
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	16	4	4	4	4
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1				1
X7011005	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	0.25	0.25	0.25	0.25
XX006675	FIELD TILE REPLACEMENT	FOOT	30				30

* SPECIALITY ITEM

* (107)BR & BR-1, (108)BR & BR-1

INDEX OF SHEETS

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- SCHEDULE OF QUANTITIES
- ALIGNMENT AND TIES
- PLAN AND PROFILE SHEETS
- DETOUR PLAN SHEET
- EROSION & SEDIMENT CONTROL SHEETS
- DRAINAGE PLAN AND PROFILE SHEETS
- RIGHT OF WAY SHEET
- PAVEMENT MARKING AND LANDSCAPING SHEETS
- STRUCTURAL SHEETS
- EXISTING PLAN - STRUCTURAL
- DISTRICT DETAILS
- CROSS SECTIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

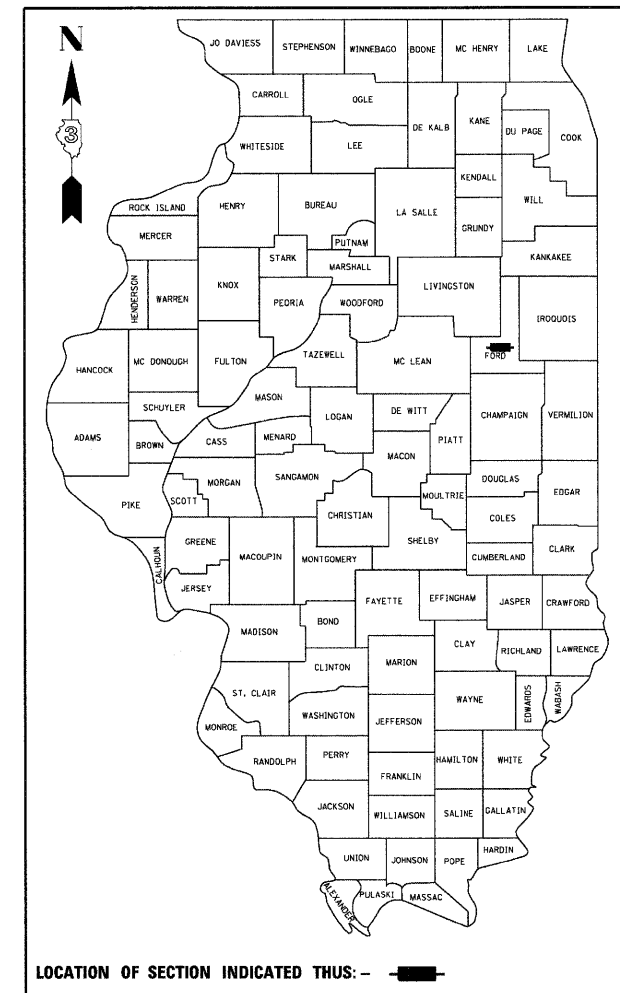
FAP ROUTE 798 (IL RTE 115)
SECTION 107-BR, 108-BR, 108-BR-1
PROJECT
FORD COUNTY

C - 93 - 026 - 07

REPLACE THREE SINGLE SPAN REINFORCED CONCRETE
SLAB BRIDGES OVER A DRAINAGE DITCH WITH
THREE DOUBLE BOX CULVERTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR, 108-BR, 108-BR-1	FORD	92	5
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 66698		

P-93-071-98 D-93-046-06
P-93-070-98
P-93-044-05



LOCATION OF SECTION INDICATED THUS: — ■ —

FUNCTION CLASSIFICATION

RURAL MINOR ARTERIAL
2009 ADT = 850
P.V. = 85.0% S.U. = 7.5% M.U. = 7.5%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

20 _____

ENGINEER OF DESIGN AND ENVIRONMENT

20 _____

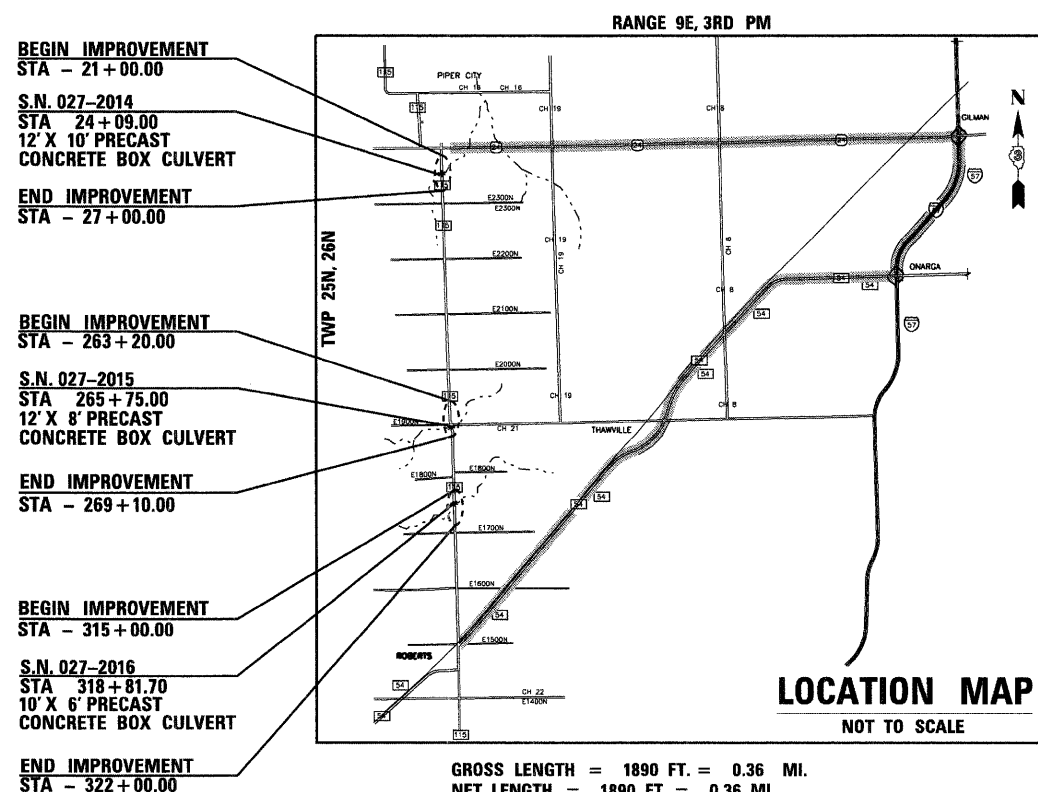
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



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

DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: JOSEPH KANNEL, P.E.
UNIT CHIEF: MICHELE LINDEMANN, P.E.
TOWNSHIP: LYMAN, BRENTON
CONTRACT NO. 66698



BEGIN IMPROVEMENT
STA - 21 + 00.00

S.N. 027-2014
STA 24 + 09.00
12' X 10' PRECAST
CONCRETE BOX CULVERT

END IMPROVEMENT
STA - 27 + 00.00

BEGIN IMPROVEMENT
STA - 263 + 20.00

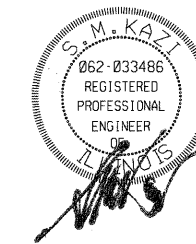
S.N. 027-2015
STA 265 + 75.00
12' X 8' PRECAST
CONCRETE BOX CULVERT

END IMPROVEMENT
STA - 269 + 10.00

BEGIN IMPROVEMENT
STA - 315 + 00.00

S.N. 027-2016
STA 318 + 81.70
10' X 6' PRECAST
CONCRETE BOX CULVERT

END IMPROVEMENT
STA - 322 + 00.00



Syed M. Kazi
Licensed Professional Engineer
State of Illinois
Lic. No. 062-033486
Expires: 11-30-2009
Signature and Seal apply
to Civil Drawings



Syed M. Kazi
Licensed Structural Engineer
State of Illinois
Lic. No. 081-004047
Expires: 11-30-2008
Signature and Seal apply
to Structural Drawings

DELTA ENGINEERING, INC.
CONSULTING ENGINEERS, CONSTRUCTION MANAGERS, SURVEYORS
111 West Jackson Blvd., Suite 910 Chicago, IL 60604-2001

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

1. 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.
2. 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.
3. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
4. BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS & FIELD VERIFY.
5. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
6. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
7. 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.
8. 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 EARTH EXCAVATION.
9. 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.
10. ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
11. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
12. 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.
13. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08	GAL / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE
14. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE: VERIZON AND EASTERN ILLINI ELECTRIC CO-OP
15. THE SIGNS DISPLACED BY SHOULDER WIDENING ARE TO BE REINSTALLED IN LOCATIONS AS DETERMINED BY THE ENGINEER AND THE COST SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

LIST OF STANDARDS

- | | |
|-------------|--|
| 000001-05 | STANDARDS SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-01 | AREA OF REINFORCEMENT BARS |
| 280001-04 | TEMPORARY EROSION CONTROL SYSTEMS |
| 482001-02 | HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT |
| 482011-03 | HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS |
| 515001-02 | NAME PLATE FOR BRIDGES |
| 542301-01 | PRECAST REINFORCED CONCRETE FLARED END SECTION |
| 542401 | METAL END SECTION FOR PIPE CULVERTS |
| 630001-07 | STEEL PLATE BEAM GUARDRAIL |
| 630101-07 | GUARDRAIL MOUNTED ON EXISTING CULVERTS |
| 630201-05 | PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL |
| 630301-04 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 635006-02 | REFLECTOR AND TERMINAL MARKER PLACEMENT |
| 635011-01 | REFLECTOR MARKER AND MOUNTING DETAILS |
| 665001-01 | WOVEN WIRE FENCE |
| 666001 | RIGHT OF WAY MARKERS |
| 667101 | PERMANENT SURVEY MARKERS |
| 701001-01 | OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') AWAY |
| 701006-02 | OFF-ROAD OPERATIONS, 2L, 2W, 4.5M (15') TO 600MM (24") FROM PAVEMENT EDGE |
| 701011-01 | OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 701201-02 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH |
| 701301-02 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701306-01 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH |
| 701901 | TRAFFIC CONTROL DEVICES |
| 720011 | METAL POSTS FOR SIGNS, MARKERS & DELINEATORS |
| 780001-01 | TYPICAL PAVEMENT MARKINGS |
| B.L.R. 22-5 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC) |

COMMITMENTS

FILE NAME =	USER NAME = carpentardj	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND LIST OF STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca\pwwork\pwwid\carpentardj\dms30072\general.dgn		DRAWN - RM/FZ/DK/NS	REVISED -			798	107-BR, 108-BR, 108-BR-1	FORD	92	6	
PLOT SCALE = 2.1176' / IN.		CHECKED - AS	REVISED -			CONTRACT NO. 66698					
PLOT DATE = Aug 22, 2008 - 02:01:05 PM		DATE - AUGUST 2008	REVISED -			SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

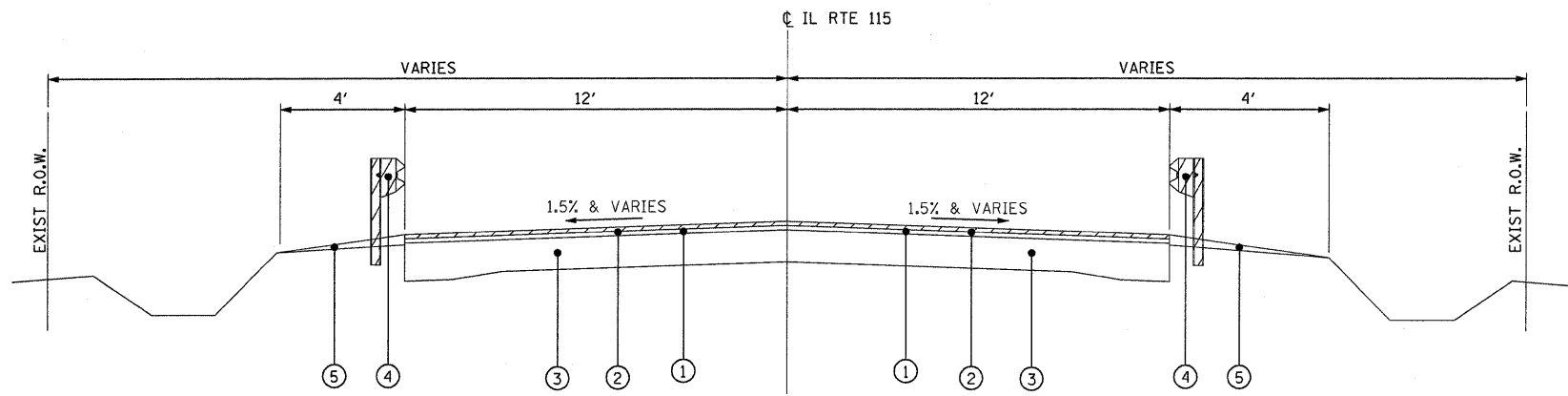
BILL OF MATERIALS

CODE NO.	CONSTRUCTION CODE TYPE: ITEM	UNIT	TOTAL QUANTITY	X088-2A	X088-2A	X088-2A
				027-2015	027-2016	027-2014
20200100	EARTH EXCAVATION	CU YD	540	320	170	50
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1386	590	284	512
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	308	44	37	227
21400100	GRADING AND SHAPING DITCHES	FOOT	3266	1062	1100	1104
25000300	SEEDING, CLASS 3	ACRE	1.18	.37	.44	.37
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	105	33	39	33
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	105	33	39	33
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	105	33	39	33
25100630	EROSION CONTROL BLANKET	SQ YD	7948	2582	2530	2836
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	118	37	44	37
28000300	TEMPORARY DITCH CHECKS	EACH	29	10	9	10
28000400	PERIMETER EROSION BARRIER	FOOT	891	306	485	100
28000500	INLET AND PIPE PROTECTION	EACH	6	2	1	3
28100107	STONE RIPRAP, CLASS A4	SQ YD	1381	437	389	555
28200200	FILTER FABRIC	SQ YD	1381	437	389	555
31100500	SUB-BASE GRANULAR MATERIAL, TYPE A 6"	SQ YD	695	217	276	202
355011327	HOT-MIX ASPHALT BASE COURSE 10 3/4"	SQ YD	599	187	238	174
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	455	161	160	134
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	1	1	1
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	151	83	26	42
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	960	320	320	320
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	478	169	168	141
44000100	PAVEMENT REMOVAL	SQ YD	811	231	355	225
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	3771	1162	1329	1280
48101200	AGGREGATE SHOULDERS, TYPE B	TON	53	10	23	20
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	2429	797	844	788
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1		1	

BILL OF MATERIALS

CODE NO.	CONSTRUCTION CODE TYPE: ITEM	UNIT	TOTAL QUANTITY	X088-2A	X088-2A	X088-2A
				027-2015	027-2016	027-2014
50105200	REMOVE EXISTING CULVERTS	EACH	3	2	1	
50200100	STRUCTURE EXCAVATION	CU YD	2730	867	515	1348
50800105	REINFORCEMENT BARS	POUND	27890	5050	16370	6470
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2220	790	350	1080
51500100	NAME PLATES	EACH	3	1	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	187	51	70	66
54011208	PRECAST CONCRETE BOX CULVERT 12' X 8'	FOOT	98	98		
54021006	PRECAST CONCRETE BOX CULVERT 10' X 6' (M273)	FOOT	64		64	
54021210	PRECAST CONCRETE BOX CULVERT 12' X 10' (M273)	FOOT	84			84
54200223	PIPE CULVERTS, CLASS C, TYPE 1 18"	FOOT	77	77		
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	30		30	
54213453	END SECTIONS 18"	EACH	6	4	2	
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1350	437.5	612.5	300
63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	225	100	75	50
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	2	4	
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	6	2		4
63200310	GUARDRAIL REMOVAL	FOOT	1927	500	869	558
66500105	WOVEN WIRE FENCE, 4'	FOOT	149		149	
66502300	WOVEN WIRE FENCE REMOVAL	FOOT	141		141	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	19	3	8	8
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	2	2
67100100	MOBILIZATION	L SUM	1	0.33	0.33	0.33
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.33	0.33	0.33
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.33	0.33	0.33
70100835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	0.33	0.33	0.33
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4316	1716	1400	1200
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	480	155	175	150
78200410	GUARDRAIL MARKERS, TYPE A	EACH	88	30	36	22
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	4	4	4
X7011005	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	0.33	0.33	0.33

* SPECIALITY ITEM



EXISTING STRUCTURE TYPICAL SECTION

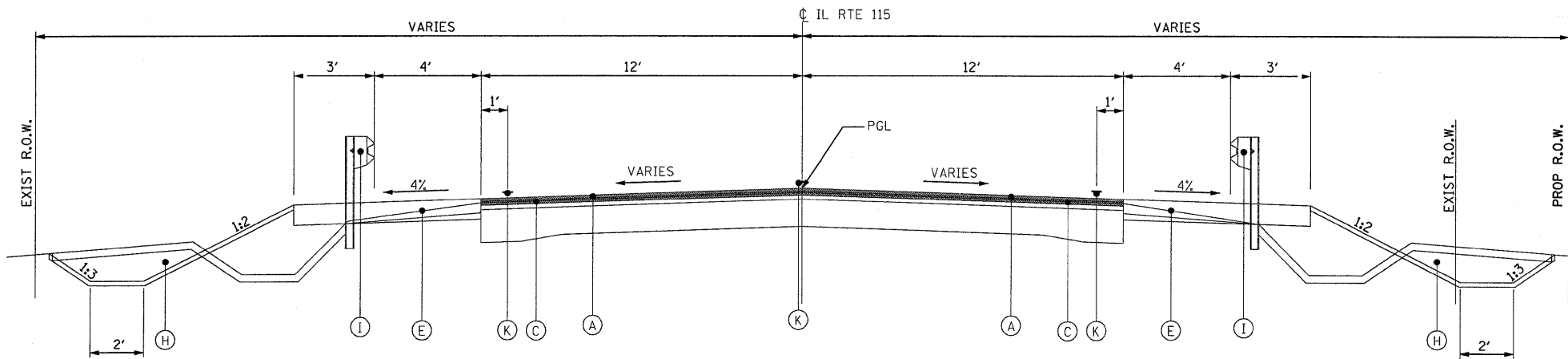
NTS
FROM STA 21+00 TO STA 23+95.97
FROM STA 24+21.98 TO STA 27+00

BITUMINOUS MIXTURE REQUIREMENTS

PAY ITEM	HMA LEVEL BINDER	HMA SURFACE	HMA BINDER	HMA SHOULDERS
PG GRADE	PG64-22	PG64-22	PG64-22	PG58-22
MAX. % RAP ALLOWABLE **	25%	15%	25%	50%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	3.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 OR IL 9.5	IL 19.0	IL 19.0
FRICTION AGGREGATE		MIXTURE C		
DENSITY TEST METHOD	SATISFACTION OF THE ENGINEER	NUCLEAR / CORES	NUCLEAR / CORES	*

* MATERIAL SHALL BE COMPACTED TO 93.0 - 97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

** IF RAP OPTION IS DIFFERENT THAN LISTED ABOVE, THE PG GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.



PROPOSED ROADWAY WITH GUARD RAIL TYPICAL SECTION

NTS

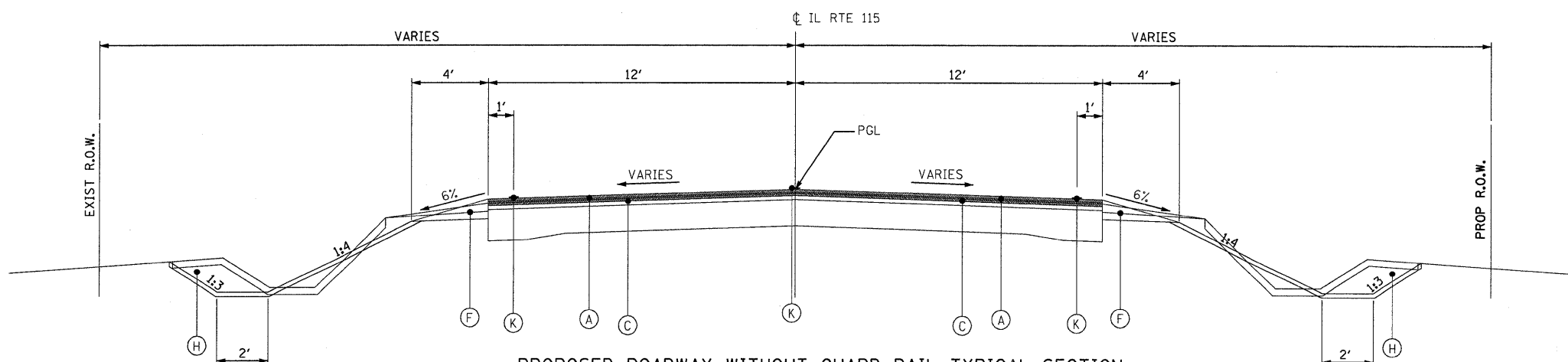
LEGEND:

EXISTING

- ① EXISTING HOT-MIX ASPHALT BINDER/SURFACE COURSE ± 3"
- ② HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"
- ③ EXISTING PCC PAVEMENT, ± 12"
- ④ EXISTING GUARD RAIL REMOVAL
- ⑤ EXISTING AGGREGATE SHOULDER

PROPOSED

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2"
- Ⓑ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- Ⓒ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, VARIABLE DEPTH
- Ⓓ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 6"
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- Ⓕ PROPOSED AGGREGATE SHOULDER, TYPE B
- Ⓖ PROPOSED POROUS GRANULAR EMBANKMENT
- Ⓗ PROPOSED EARTH EXCAVATION
- Ⓘ PROPOSED STEEL PLATE BEAM GUARD RAIL
- Ⓝ PROPOSED PRECAST CONCRETE BOX CULVERT, 12' X 10' (M273)
- Ⓚ PAVEMENT MARKING, SEE PAVEMENT MARKING SHEET FOR DETAIL



PROPOSED ROADWAY WITHOUT GUARD RAIL TYPICAL SECTION

NTS

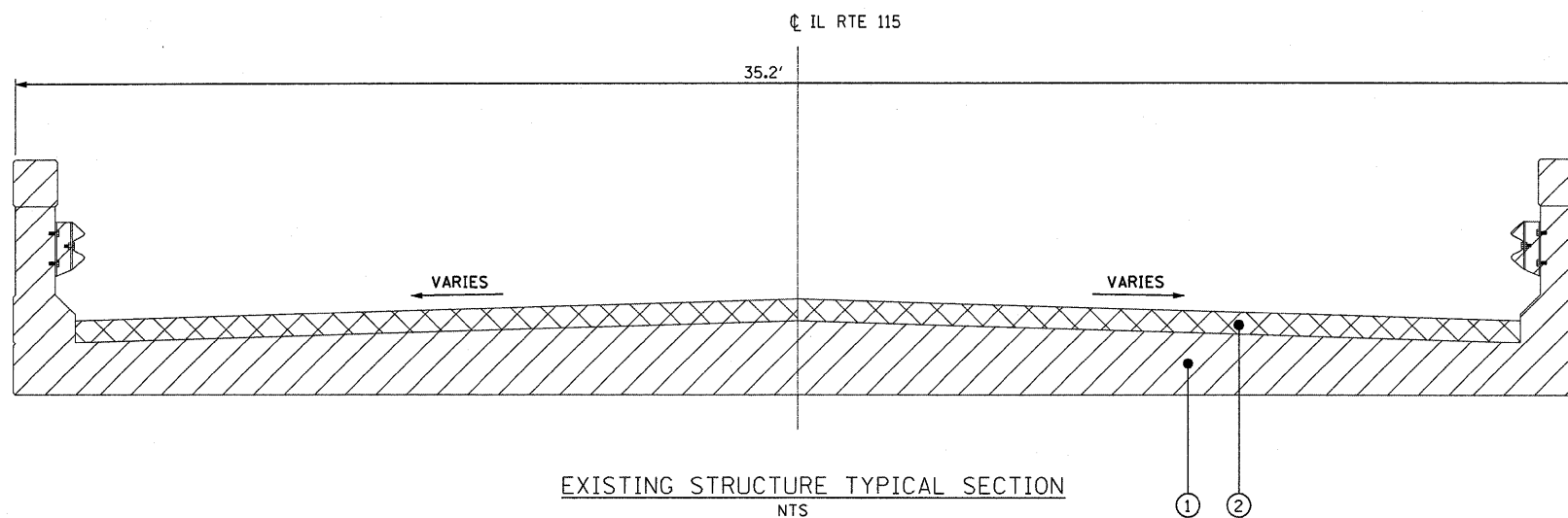
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
SN 027-2014 SHEET 1 OF 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR, 108-BR, 108-BR-1	FORD	92	8
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND:

EXISTING:

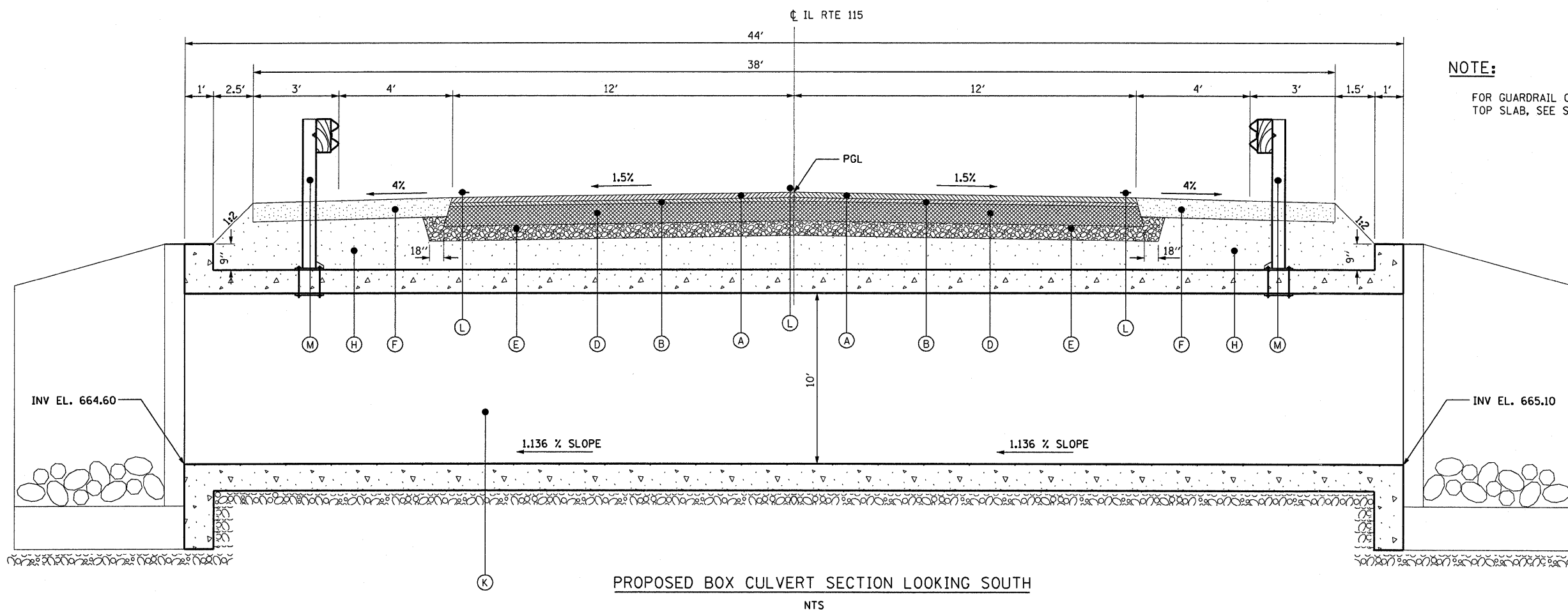
- ① REMOVAL OF EXISTING STRUCTURES NO. 2
- ② PAVEMENT REMOVAL

PROPOSED

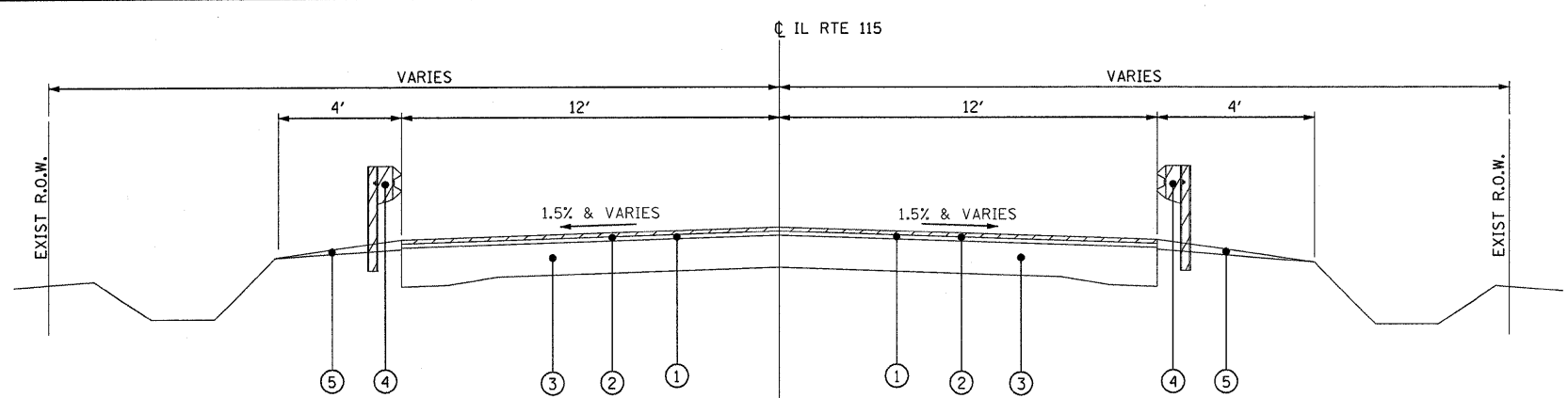
- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2"
- Ⓑ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- Ⓒ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, VARIABLE DEPTH
- Ⓓ PROPOSED HOT-MIX ASPHALT BASE COURSE 10 3/4"
- Ⓔ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 6"
- Ⓕ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- Ⓖ PROPOSED AGGREGATE SHOULDER, TYPE B
- Ⓗ PROPOSED POROUS GRANULAR EMBANKMENT
- Ⓘ PROPOSED EARTH EXCAVATION
- Ⓝ PROPOSED STEEL PLATE BEAM GUARD RAIL
- Ⓚ PROPOSED PRECAST CONCRETE BOX CULVERT 12' X 10' (M273)
- Ⓛ PAVEMENT MARKING, SEE PAVEMENT MARKING SHEET FOR DETAIL
- Ⓜ STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES.

NOTE:

FOR GUARDRAIL CONNECTION TO CULVERT TOP SLAB, SEE STRUCTURAL SHEETS.



FILE NAME =	USER NAME = carpentardj	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS SN 027-2014 SHEET 2 OF 2			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ct:\pwr\work\PMIDOT\CARPENTERDJ\dms38872	typ-0839-sht2.dgn	DRAWN - RM/FZ/DK/NS	REVISED -		SCALE: NTS	SHEET NO.	OF SHEETS	STA.	TO STA.	798	107 BR, 108-BR, 108-BR-1	FORD	92	9
	PLOT SCALE = 21.1764' / IN.	CHECKED - AS	REVISED -											
	PLOT DATE = Aug 22, 2008 - 01:54:25 PM	DATE - AUGUST 2008	REVISED -											
										CONTRACT NO. 66698				
										FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



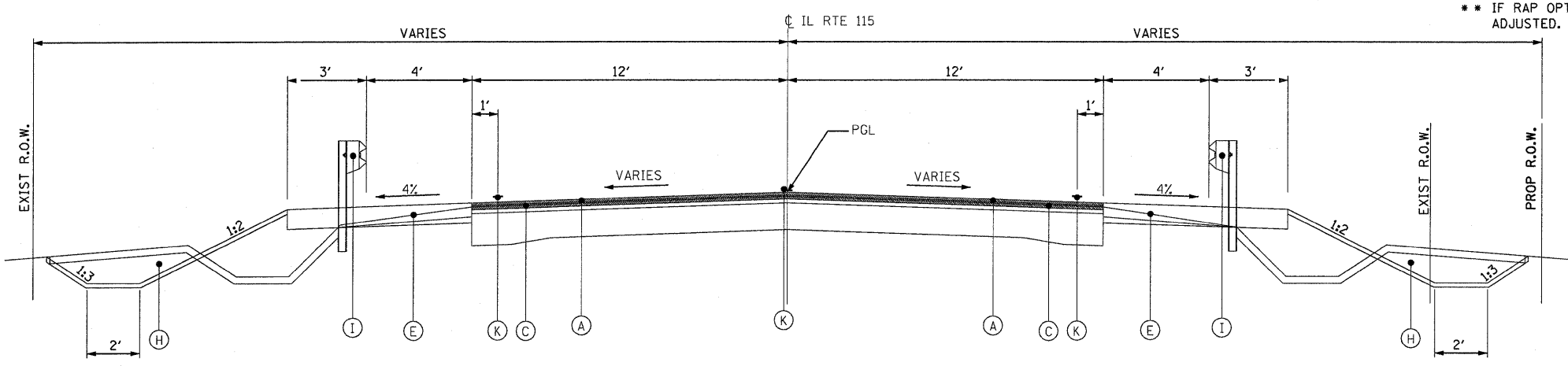
EXISTING ROADWAY TYPICAL SECTION
 NTS
 FROM STA 264+56.69 TO STA 265+62.20
 FROM STA 265+87.92 TO STA 269+10

BITUMINOUS MIXTURE REQUIREMENTS

PAY ITEM	HMA LEVEL BINDER	HMA SURFACE	HMA BINDER	HMA SHOULDERS
PG GRADE	PG64-22	PG64-22	PG64-22	PG58-22
MAX. % RAP ALLOWABLE **	25%	15%	25%	50%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	3.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 OR IL 9.5	IL 19.0	IL 19.0
FRICTION AGGREGATE		MIXTURE C		
DENSITY TEST METHOD	SATISFACTION OF THE ENGINEER	NUCLEAR / CORES	NUCLEAR / CORES	*

* MATERIAL SHALL BE COMPACTED TO 93.0 - 97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

** IF RAP OPTION IS DIFFERENT THAN LISTED ABOVE, THE PG GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.



PROPOSED ROADWAY WITH GUARD RAIL TYPICAL SECTION
 NTS

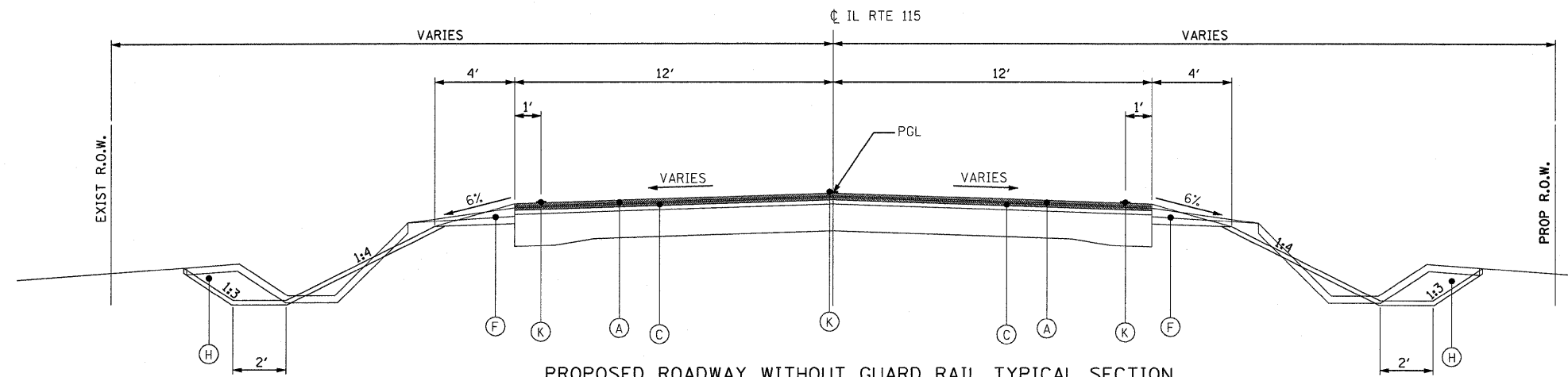
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EXISTING

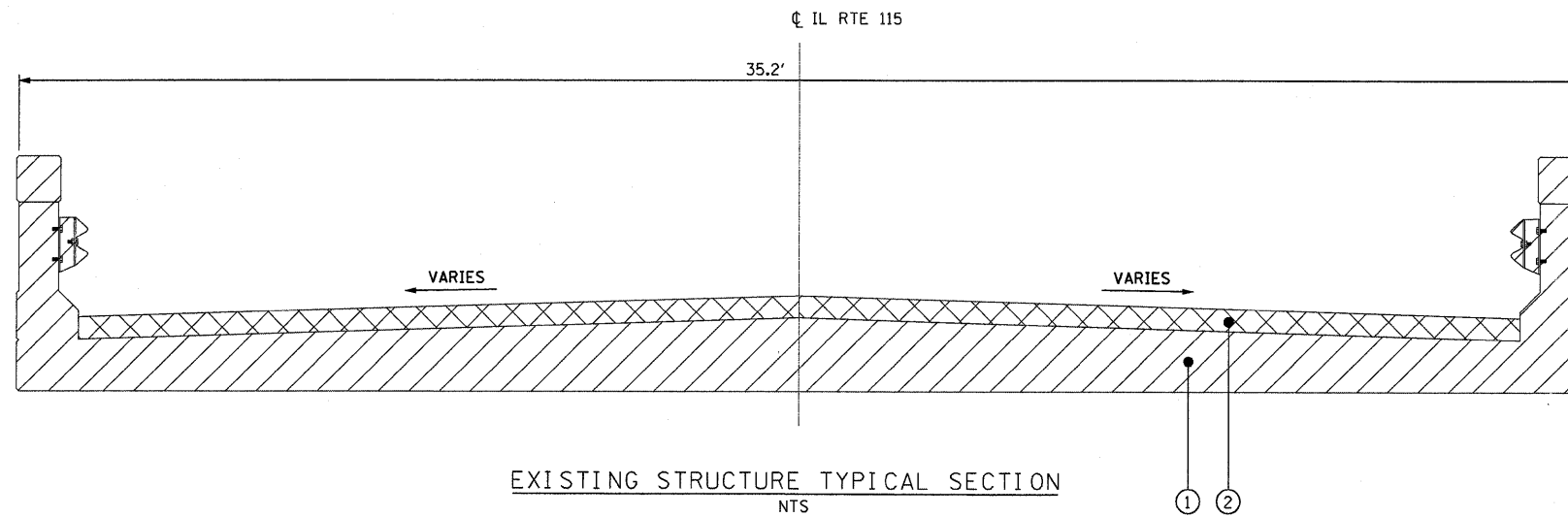
- ① EXISTING HOT-MIX ASPHALT BINDER/SURFACE COURSE ± 3"
- ② HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"
- ③ EXISTING PCC PAVEMENT, ± 12"
- ④ EXISTING GUARD RAIL REMOVAL
- ⑤ EXISTING AGGREGATE SHOULDER

PROPOSED

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2"
- Ⓑ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- Ⓒ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, VARIABLE DEPTH
- Ⓓ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 6"
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- Ⓕ PROPOSED AGGREGATE SHOULDERS, TYPE B
- Ⓖ PROPOSED POROUS GRANULAR EMBANKMENT
- Ⓗ PROPOSED EARTH EXCAVATION
- Ⓘ PROPOSED STEEL PLATE BEAM GUARD RAIL
- Ⓝ PROPOSED PRECAST CONCRETE BOX CULVERT, 12' X 8'
- Ⓚ PAVEMENT MARKING, SEE PAVEMENT MARKING SHEET FOR DETAIL



PROPOSED ROADWAY WITHOUT GUARD RAIL TYPICAL SECTION
 NTS



EXISTING STRUCTURE TYPICAL SECTION
NTS

LEGEND:

EXISTING:

① REMOVAL OF EXISTING STRUCTURES NO. 1

② PAVEMENT REMOVAL

PROPOSED

Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2"

Ⓑ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, 3/4"

Ⓒ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, VARIABLE DEPTH

Ⓓ PROPOSED HOT-MIX ASPHALT BASE COURSE 10 3/4"

Ⓔ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 6"

Ⓕ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"

Ⓖ PROPOSED AGGREGATE SHOULDER, TYPE B

Ⓗ PROPOSED POROUS GRANULAR EMBANKMENT

Ⓘ PROPOSED EARTH EXCAVATION

Ⓝ PROPOSED STEEL PLATE BEAM GUARD RAIL

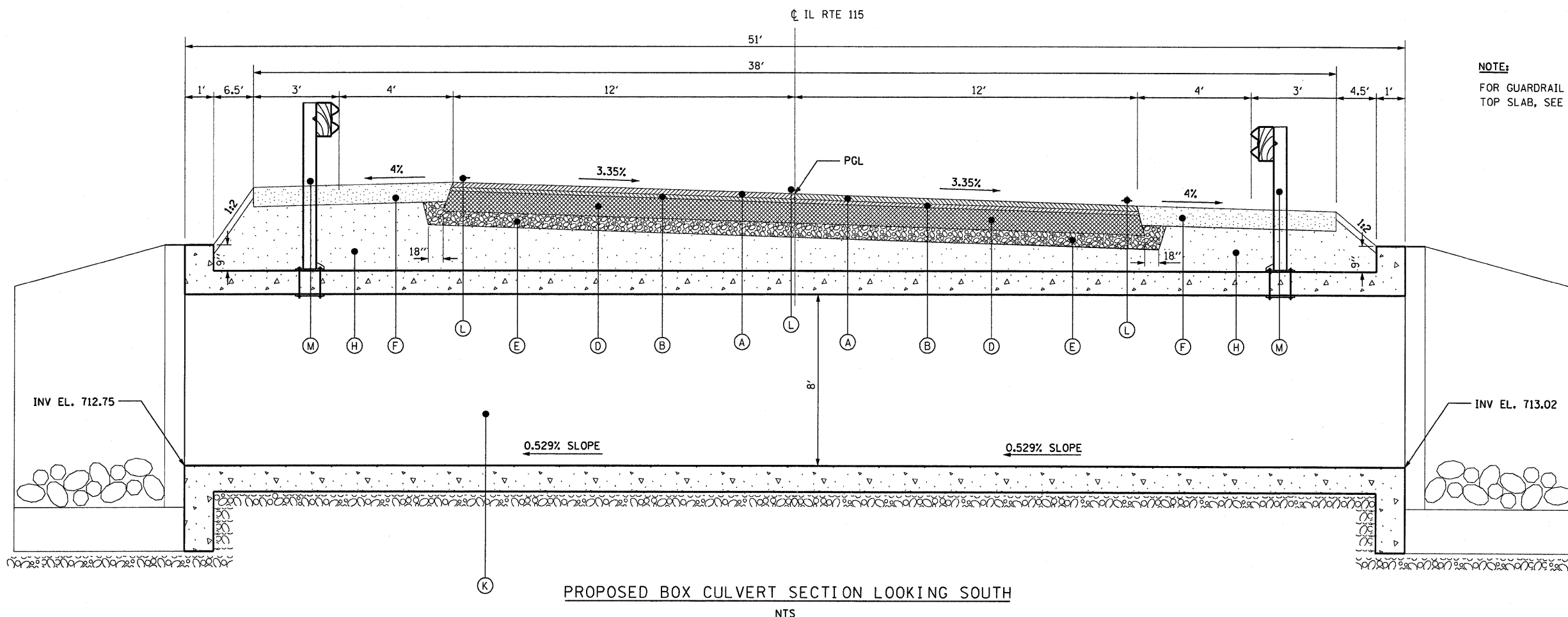
Ⓚ PROPOSED PRECAST CONCRETE BOX CULVERT 12' X 8'

Ⓛ PAVEMENT MARKING, SEE PAVEMENT MARKING SHEET FOR DETAIL

Ⓜ STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES.

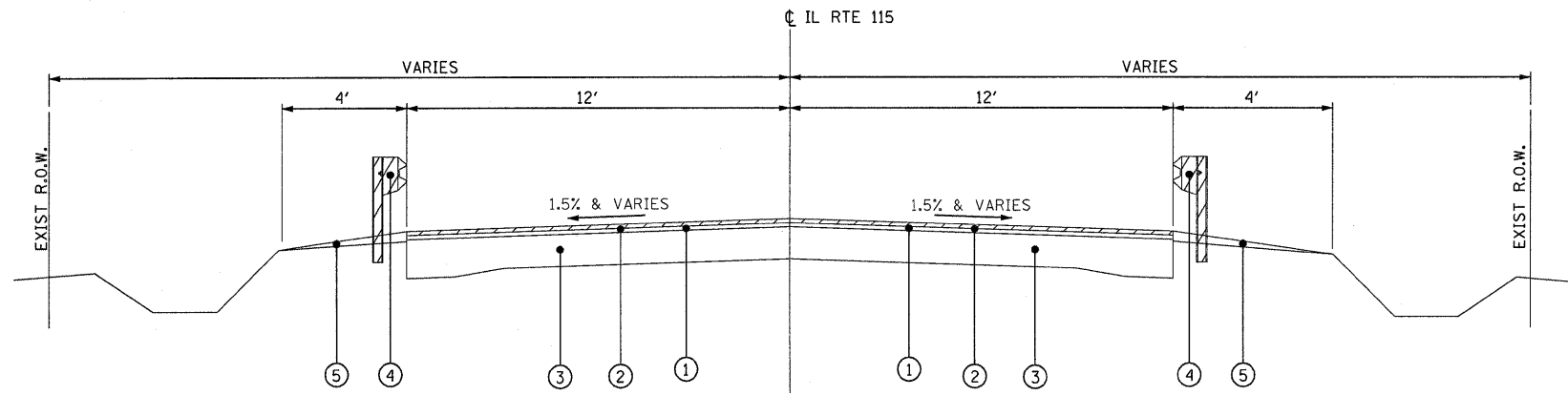
NOTE:

FOR GUARDRAIL CONNECTION TO CULVERT TOP SLAB, SEE STRUCTURAL SHEETS.



PROPOSED BOX CULVERT SECTION LOOKING SOUTH
NTS

FILE NAME =	USER NAME = carpentardj	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS SN 027-2015 SHEET 2 OF 2			F.A.P. RTE. 798	SECTION 107 BR, 108-BR, 108-BR-1	COUNTY FORD	TOTAL SHEETS 92	SHEET NO. 11
ca:\pwr_work\p\WIDOT\CARPENTERDJ\dms30072	typ-0030-sh12.dgn	DRAWN - RM/FZ/DK/NS	REVISED -		SCALE: 1/8" = 1'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 66698		
	PLOT SCALE = 21.1764' / IN.	CHECKED - AS	REVISED -							ILLINOIS FED. AID PROJECT		
	PLOT DATE = Aug 22, 2008 - 01:48:09 PM	DATE - AUGUST 2008	REVISED -									



EXISTING ROADWAY TYPICAL SECTION

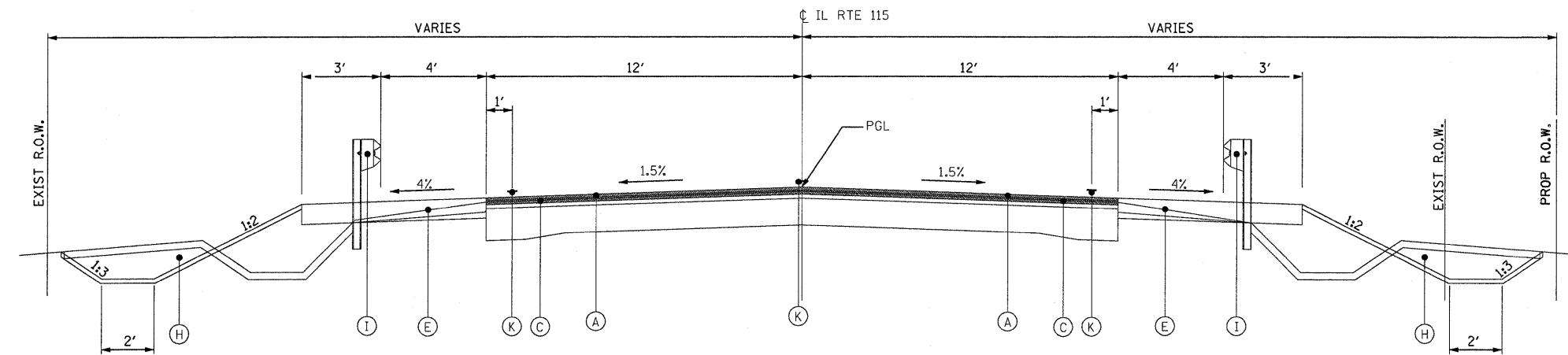
NTS
 FROM STA 315+00 TO STA 318+69.43
 FROM STA 318+95.77 TO STA 322+00

BITUMINOUS MIXTURE REQUIREMENTS

PAY ITEM	HMA LEVEL BINDER	HMA SURFACE	HMA BINDER	HMA SHOULDERS
PG GRADE	PG64-22	PG64-22	PG64-22	PG58-22
MAX. % RAP ALLOWABLE **	25%	15%	25%	50%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	3.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 OR IL 9.5	IL 19.0	IL 19.0
FRICTION AGGREGATE		MIXTURE C		
DENSITY TEST METHOD	SATISFACTION OF THE ENGINEER	NUCLEAR / CORES	NUCLEAR / CORES	*

* MATERIAL SHALL BE COMPACTED TO 93.0 - 97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

** IF RAP OPTION IS DIFFERENT THAN LISTED ABOVE, THE PG GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.



PROPOSED ROADWAY WITH GUARD RAIL TYPICAL SECTION

NTS

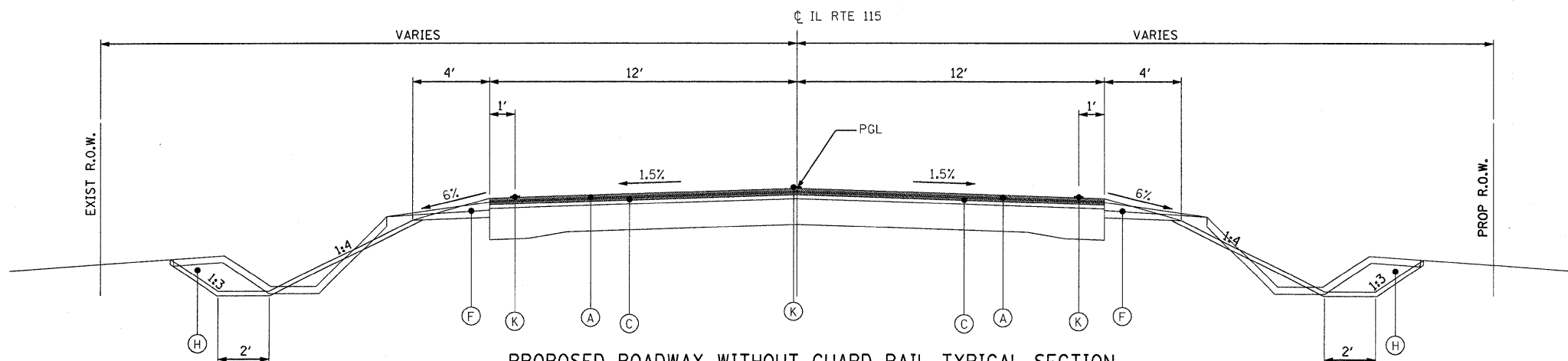
LEGEND:

EXISTING

- ① EXISTING HOT-MIX ASPHALT BINDER/SURFACE COURSE ± 3"
- ② HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"
- ③ EXISTING PCC PAVEMENT, ± 12"
- ④ EXISTING GUARD RAIL REMOVAL
- ⑤ EXISTING AGGREGATE SHOULDER

PROPOSED

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2"
- Ⓑ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- Ⓒ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, VARIABLE DEPTH
- Ⓓ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 6"
- Ⓔ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- Ⓕ PROPOSED AGGREGATE SHOULDERS, TYPE B
- Ⓖ PROPOSED POROUS GRANULAR EMBANKMENT
- Ⓗ PROPOSED EARTH EXCAVATION
- Ⓘ PROPOSED STEEL PLATE BEAM GUARD RAIL
- Ⓝ PROPOSED PRECAST CONCRETE BOX CULVERT, 10' X 6' (M273)
- Ⓚ PAVEMENT MARKING, SEE PAVEMENT MARKING SHEET FOR DETAIL



PROPOSED ROADWAY WITHOUT GUARD RAIL TYPICAL SECTION

NTS

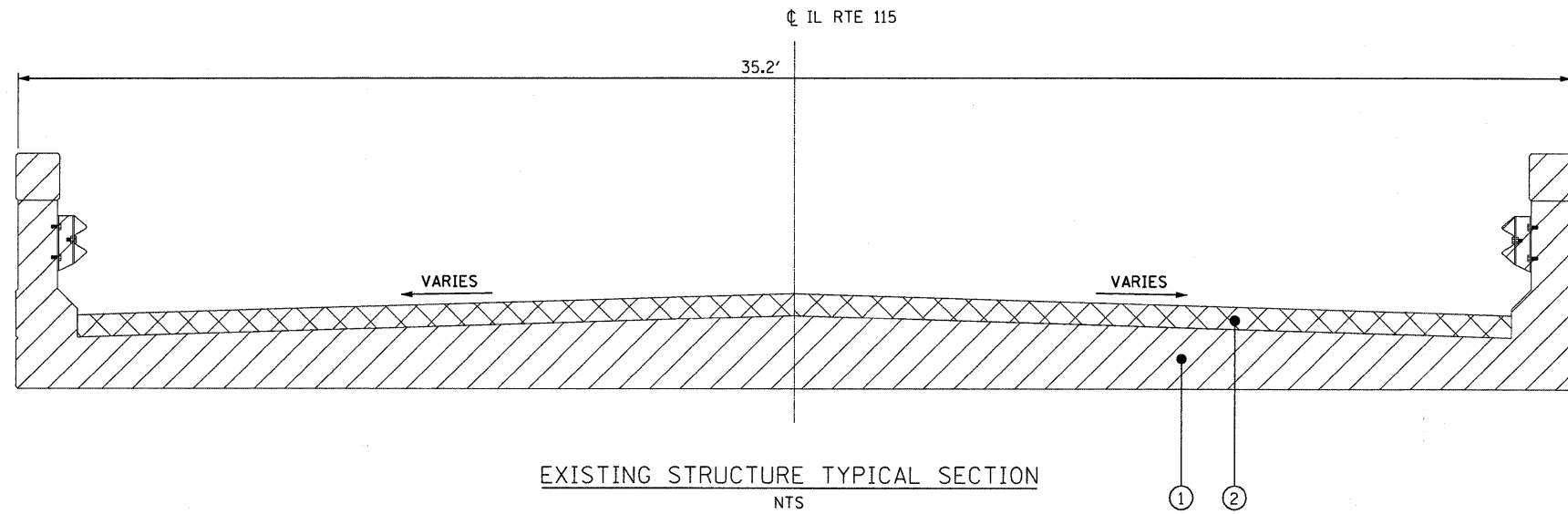
FILE NAME =	USER NAME = carpenterd	DESIGNED - DB	REVISED -
01\pwork\PMIDOT\CARPENTERD\j\dms30072	typ-0031-sh1.dgn	DRAWN - RM/FZ/DK/NS	REVISED -
	PLOT SCALE = 21.1764' / IN.	CHECKED - AS	REVISED -
	PLOT DATE = Aug 22, 2008 - 01:46:04 PM	DATE - AUGUST 2008	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 SN 027-2016 SHEET 1 OF 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR, 108-BR, 108-BR-1	FORD	92	12
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND:

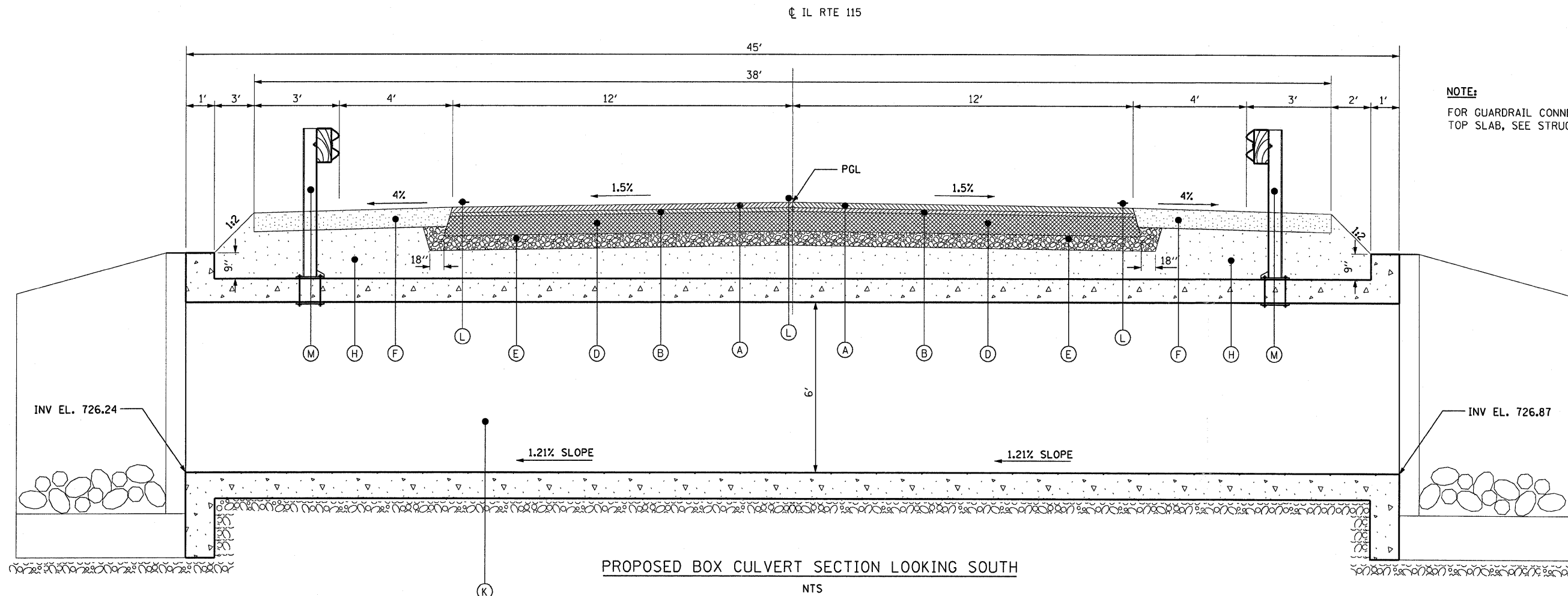
EXISTING:

- ① REMOVAL OF EXISTING STRUCTURES NO. 3
- ② PAVEMENT REMOVAL

PROPOSED

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2"
- Ⓑ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- Ⓒ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, VARIABLE DEPTH
- Ⓓ PROPOSED HOT MIX ASPHALT BASE COURSE 10 3/4"
- Ⓔ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 6"
- Ⓕ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- Ⓖ PROPOSED AGGREGATE SHOULDER, TYPE B
- Ⓗ PROPOSED POROUS GRANULAR EMBANKMENT
- Ⓘ PROPOSED EARTH EXCAVATION
- Ⓝ PROPOSED STEEL PLATE BEAM GUARD RAIL
- Ⓚ PROPOSED PRECAST CONCRETE BOX CULVERT, 10' X 6'
- Ⓛ PAVEMENT MARKING, SEE PAVEMENT MARKING SHEET FOR DETAIL
- Ⓜ STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES.

EXISTING STRUCTURE TYPICAL SECTION
NTS



PROPOSED BOX CULVERT SECTION LOOKING SOUTH
NTS

NOTE:
ALL DIMENSIONS ARE SHOWN PERPENDICULAR TO CENTERLINE OF ROADWAY.
STRUCTURE NO. S.N. 027-2016 IS 30° LT SKEW PERPENDICULAR TO CENTERLINE OF ROADWAY.

FILE NAME = c:\pwork\pwork\DOT\CARPENTERD\j\dms30072	USER NAME = carpenterdj	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS SN 027-2016 SHEET 2 OF 2		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	typ-0231-aht2.dgn	DRAWN - RM/FZ/DK/NS	REVISED -		SCALE: NTS	SHEET NO. OF SHEETS	STA. TO STA.	798	107 BR, 108-BR, 108-BR-1	FORD	92
PLOT SCALE = 20,0000' / IN.	CHECKED - AS	DATE - AUGUST 2008	REVISED -					CONTRACT NO. 66698			
PLOT DATE = Aug 22, 2008 - 01:45:09 PM								ILLINOIS FED. AID PROJECT			

PAVEMENT SCHEDULE													
LOCATION		SIDE	SUBBASE GRANULAR MATERIAL TYPE A, 6"	PROPOSED HMA BASE COURSE 10 3/4"	HOT-MIX ASPHALT SHOULDERS 8"	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	PAVEMENT REMOVAL	PROPOSED AGGREGATE SHOULDER, TYPE B	MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS	BITUMINOUS MATERIAL (PRIME COAT)	LEVELING BINDER (MACHINE METHOD), N50	HOT MIX ASPHALT SURFACE CSE MIX "C", N50
STATION	TO STATION												
21+00.00	TO 21+60.00					160							
21+00.00	TO 22+51.67	LT						6					
21+00.00	TO 22+29.98	RT						5					
21+00.00	TO 23+79.20										19		
21+60.00	TO 26+40.00									1,280			
22+51.67	TO 25+91.88	LT			399								
22+29.98	TO 25+65.12	RT			389								
23+79.20	TO 24+38.80		202	174			225				7		
24+38.80	TO 27+00.00										16		
25+91.88	TO 27+00.00	LT						4					
25+65.12	TO 27+00.00	RT						5					
26+40.00	TO 27+00.00					160							
21+00.00	TO 27+00.00										134		141
ASSUMED													
TOTAL													
			202	174	788	320	1,280	225	20	1	134	42	141

GUARDRAIL SCHEDULE									
LOCATION		SIDE	GUARDRAIL REMOVAL (FOOT)	GUARDRAIL ATTACHED TO STRUCTURE (FOOT)	STEEL PLATE BEAM GUARD RAIL, TYPE A (FOOT)	TBT TY 1 (SPECIAL) FLARED (EACH)	TERMINAL MARKER - DIRECT APPLIED (EACH)	GUARDRAIL MARKER (EACH)	
STATION	TO STATION								LT/RT
22+30.00	TO 25+86.00	LT	358						
23+09.00	TO 25+09.00	RT	200						
22+59.00	TO 23+09.00	RT				1	1		
22+84.00	TO 23+34.00	LT				1	1		
23+09.00	TO 23+96.50	RT			88				
23+34.00	TO 23+96.50	LT			63				
23+96.50	TO 24+21.50	LT		25					
23+96.50	TO 24+21.50	RT		25					
24+21.50	TO 24+84.00	RT			63				
24+21.50	TO 25+09.00	LT			88				
24+84.00	TO 25+34.00	RT				1	1		
25+09.00	TO 25+59.00	LT				1	1		
22+81.28	TO 25+36.73	RT						11	
22+81.28	TO 25+56.62	LT						11	
TOTAL									
			558	50	300	4	4	22	

SEEDING AND EROSION CONTROL SCHEDULE											
LOCATION		SIDE	SEEDING CL 3 (ACRE)	NIT FERT NUT (LB)	PHOS FERT NUT (LB)	POT FERT NUT (LB)	TEMP EROSION CONTROL SEEDING (LB)	EROSION CONTROL BLANKET (SQ FT)	PERIMETER EROSION BARRIER (LF)	INLET & PIPE PROTECTION (EACH)	TEMP DITCH CHECKS (EACH)
STATION	TO STATION										
21+00.00	TO 27+00.00	LT	0.19	17	17	17	19	1,209			
21+00.00	TO 27+00.00	RT	0.18	16	16	16	18	1,072			
23+50.00	TO 25+00.00	LT						283			
23+50.00	TO 25+00.00	RT						256			
25+86.63	TO 25+97.47	LT						8			
25+94.48	TO 26+03.91	RT						8			
26+33.00		RT							1		
26+25.00		LT							1		
26+70.00		LT							1		
23+40.00		LT								1	
23+40.00		RT								1	
23+98.00		LT								1	
23+98.00		RT								1	
24+20.00		LT								1	
24+20.00		RT								1	
25+10.00		LT								1	
25+10.00		RT								1	
26+84.00		LT								1	
28+48+00		RT								1	
NE OF BRIDGE		LT							27		
SE OF BRIDGE		LT							27		
NW OF BRIDGE		RT							23		
SW OF BRIDGE		RT							23		
TOTAL											
			0.37	33	33	33	37	2836	100	3	10

PAVEMENT MARKING SCHEDULE				
LOCATION		SIDE	PAINT PAVEMENT MARKING-LINE 4"	PAINT PAVEMENT MARKING-LINE 6"
STATION	TO STATION			
21+00.00	TO 27+00.00	LT	600	
21+00.00	TO 27+00.00	RT	600	
21+00.00	TO 27+00.00	CL		150
TOTAL				
			1,200	150

RIPRAP SCHEDULE				
LOCATION		SIDE	STONE RIPRAP CLASS A4	FILTER FABRIC
STATION	TO STATION			
23+50.00	TO 25+00.00	LT	283	283
23+50.00	TO 25+00.00	RT	256	256
25+86.63	TO 25+97.47	LT	8	8
25+94.48	TO 26+03.91	RT	8	8
TOTAL				
			555	555

EARTHWORK SCHEDULE							
STATION		SIDE	CUT VOLUME EARTH EXCAVATION	ADJUSTED FOR SHRINKAGE	FILL VOLUME EMBANKMENT (FURNISHED EXCAVATION)	EARTHWORK BALANCE	SUB TOTAL
FROM	TO						
21+00.00	TO 27+00.00	LT	365	274	250	24	24
21+00.00	TO 27+00.00	RT	335	251	225	26	26
TOTAL							
							50

GRADING AND SHAPING DITCHES				
LOCATION		SIDE	GRADING AND SHAPING DITCHES	
STATION	TO STATION			LT/RT
21+00.00	TO 23+85.00	LT	285	
21+00.00	TO 23+85.00	RT	285	
24+33.00	TO 27+00.00	LT	287	
24+33.00	TO 27+00.00	RT	287	
TOTAL				
			1,104	

RIGHT-OF-WAY MARKERS	
LOCATION	EACH
STA. 21+00, 33' RT	1
STA. 22+00, 55' RT	1
STA. 22+00, 33' LT	1
STA. 23+00, 60' LT	1
STA. 25+00, 55' RT	1
STA. 26+00, 33' RT	1
STA. 26+34, 60' LT	1
STA. 26+34, 33' LT	1
TOTAL	
	8

PAVEMENT SCHEDULE															
LOCATION			SIDE	SUBBASE GRANULAR MATERIAL TY A, 6"	PROPOSED HMA BASE COURSE 10 3/4"	HOT-MIX ASPHALT SHOULDERS 8"	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	PAVEMENT REMOVAL	PROPOSED AGGREGATE SHOULDER TYPE B	LEVELING BINDER (MACHINE METHOD), N50	HOT MIX ASPHALT SURFACE CSE MIX "C", N50	BITUMINOUS MATERIAL (PRIME COAT)	MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS	HOT-MIX ASPHALT SURFACE REMOVAL 3/4"	
STATION	TO	STATION	LT/RT	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(TON)	(TON)	(GAL)	(TON)	(SQ YD)	
262+90.00	TO	263+50.00	LT				160		2						
262+90.00	TO	263+50.00	RT						2						
263+50.00	TO	264+14.36	LT						1						
263+50.00	TO	263+93.77	RT						1						
263+20.00	TO	269+10.00								149	142				
263+50.00	TO	265+42.82							31					514	
264+13.95	TO	264+25.64	RT						1						
264+21.73	TO	268+07.66	RT			370									
264+40.03	TO	264+44.09	LT						1						
264+44.16	TO	269+10.00	LT			427									
265+42.82	TO	266+07.06		217	187			231	8						
266+07.06	TO	268+50.00												648	
266+07.06	TO	269+10.00							44						
269+07.66	TO	269+10.00	RT						4						
268+50.00	TO	269+10.00					160						1		
ASSUMED THAWVILLE ROAD				LT						12	11				
THAWVILLE ROAD				RT						8	8				
TOTAL					217	187	797	320	231	12	83	169	161	1	1,162

EARTHWORK SCHEDULE							
STATION		SIDE	CUT VOLUME	ADJUSTED	FILL VOLUME	EARTHWORK	SUB TOTAL
			EARTH EXCAVATION	FOR SHRINKAGE	EMBANKMENT	BALANCE	
					WASTE (+) OR SHORTAGE (-)		
FROM	TO		CU YD	CU YD		CU YD	
262+90.00	269+10.00	LEFT	570	428	216	212	212
262+90.00	269+10.00	RIGHT	338	254	184	70	70
TOTAL							281

SEEDING AND EROSION CONTROL SCHEDULE												
LOCATION		SIDE	SEEDING CL 3	NIT FERT NUT	PHOS FERT NUT	POT FERT NUT	TEMP EROSION CONTROL SEEDING	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	INLET & PIPE PROTECTION	TEMP DITCH CHECKS	
STATION TO STATION			(ACRE)	(LB)	(LB)	(LB)	(LB)	(SQ FT)	(LF)	(EACH)	(EACH)	
262+90.00	TO	269+10.00	LT	0.19	17	17	17	1,097				
262+90.00	TO	269+10.00	RT	0.18	16	16	16	1,048				
264+00.17	TO	266+50.62	LT					238				
264+99.76	TO	266+51.69	RT					189				
268+00.00	TO	269+10.00	LT						110			
268+00.00	TO	269+10.00	RT						110			
263+70.00	TO		RT								1	
263+80.00	TO		LT							1	1	
263+80.00	TO		RT							1	1	
263+90.00	TO		LT							1	1	
264+23.00	TO		RT							1	1	
264+48.00	TO		LT					5				
264+90.00	TO		LT					5				
265+63.00	TO		LT								1	
265+63.00	TO		RT								1	
265+87.00	TO		LT								1	
265+87.00	TO		RT								1	
266+60.00	TO		LT								1	
266+60.00	TO		RT								1	
NE OF BRIDGE	TO		LT						28			
SE OF BRIDGE	TO		LT						22			
NW OF BRIDGE	TO		RT						19			
SW OF BRIDGE	TO		RT						17			
TOTAL				0.37	33	33	33	37	2582	306	2	10

DRAINAGE STRUCTURE SCHEDULE							
LOCATION		SIDE	REMOVE EXISTING CULVERTS	PIPE CULVERTS CLASS C, TY 1 18"	END SECTIONS 18"	STONE RIPRAP CLASS A4	FILTER FABRIC
STATION	TO	STATION	(EACH)	(FOOT)	(EACH)	(SQ YD)	(SQ YD)
263+86.95	TO		RT		1		
263+92.00	TO	264+21.00	RT	1			
263+99.00	TO	264+50.00	LT	1			
264+03.84	TO		LT		1		
263+89.95	TO	264+23.46	RT		33		
264+03.83	TO	264+48.02	LT		44		
264+23.46	TO		RT		1		
264+48.02	TO		LT		1		
265+00.00	TO	266+51.00	LT			238	238
265+00.00	TO	266+51.00	RT			189	189
264+23.00	TO		RT			5	5
264+48.00	TO		LT			5	5
TOTAL			2	77	4	437	437

GRADING AND SHAPING DITCHES				
LOCATION			SIDE	GRADING AND SHAPING DITCHES
STATION	TO	STATION	LT/RT	(FOOT)
262+90.00	TO	264+03.84	LT	114
262+90.00	TO	263+89.95	RT	60
264+48.02	TO	265+50.00	LT	102
264+23.46	TO	265+50.00	RT	127
266+00.00	TO	269+10.00	LT	310
266+00.00	TO	269+10.00	RT	310
TOTAL				1,023

GUARDRAIL SCHEDULE									
LOCATION			GUARDRAIL REMOVAL	GUARD RAIL ATTACHED TO STRUCTURES	STEEL PLATE BEAM GUARD RAIL, TYPE A	TBT, TY1 (SP) TANGENT	TBT, TY1 (SP) FLARED	TERMINAL MARKER-DIRECT APPLIED	GUARDRAIL MARKER
STATION	TO	STATION	(FOOT)	(FOOT)	(FT)	(EACH)	(EACH)	(EACH)	(EACH)
264+33.01	TO	266+75.05	RT	242					
264+37.50	TO	264+87.50	RT				1		
264+62.50	TO	265+12.50	LT				1		
264+75.77	TO	267+34.07	LT	258					
264+87.50	TO	265+50.00	RT			62.5			
265+12.50	TO	265+50.00	LT			37.5			
265+50.00	TO	266+00.00	LT		50				
265+50.00	TO	266+00.00	RT		50				
265+00.00	TO	268+12.50	LT			212.5			
265+00.00	TO	267+25.00	RT			125			
267+25.00	TO	267+75.00	RT				1		
268+12.50	TO	268+62.50	LT				1		
264+62.50	TO	268+62.50	LT						16
264+37.50	TO	267+75.00	RT						14
APPLIED AT EACH FACE OF TBT								4	
TOTAL			500	100	437.5	2	2	4	30

PAVEMENT MARKING SCHEDULE					
LOCATION			SIDE	PAINT PAVEMENT MARKING-LINE 4"	PAINT PAVEMENT MARKING-LINE 6"
STATION	TO	STATION		WHITE (FOOT)	YELLOW SKIP DASH (FOOT)
262+90.00	TO	263+80.78	LT	91	
262+90.00	TO	263+77.71	RT	88	
262+90.00	TO	269+10.00	CL	620	155
264+40.56	TO	269+10.00	RT	469	
264+81.83	TO	269+10.00	LT	448	
TOTAL				1,716	155

RIGHT-OF-WAY MARKERS		
LOCATION	EACH	
STA. 264+35.72, 50' RT	1	
STA. 266+00, 50' RT	1	
STA. 267+00, 34' RT	1	
TOTAL		3

PAVEMENT SCHEDULE															
LOCATION			SIDE	SUBBASE GRANULAR MATERIAL TY A, 6"	HMA BASE COURSE 10 3/4"	HOT-MIX ASPHALT SHOULDERS 8"	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	PAVEMENT REMOVAL	AGGREGATE SHOULDER, TYPE B	BITUMINOUS MATERIAL (PRIME COAT)	LEVELING BINDER (MACHINE METHOD), N50	HOT MIX ASPHALT SURFACE REMOVAL, 3/4"	MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS	HOT MIX ASPHALT SURFACE CSE MIX "C", N50	
STATION	TO	STATION		(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	GAL	(TON)	(SQ YD)	(TON)	(TON)	
315+00.00	TO	315+60.00					160			160					168
315+00.00	TO	322+00.00													
315+00.00	TO	318+40.85							5		9				
315+00.00	TO	318+54.36	LT												
315+00.00	TO	315+98.75	RT						10						
315+60.00	TO	318+40.85										749			
315+98.75	TO	321+02.26	RT			416									
316+54.36	TO	321+72.21	LT			428									
318+40.85	TO	319+22.54		276	238			355			10				
319+22.55	TO	321+40.00										580			
319+22.55	TO	322+00.00									7				
321+40.00	TO	322+00.00					160								
321+72.21	TO	322+00.00	LT						3						
321+02.25	TO	322+00.00	RT						5						
ASSUMMED														1	
TOTAL				276	238	844	320	355	23	160	26	1,329	1		168

EARTHWORK SCHEDULE							
STATION		SIDE	CUT VOLUME	ADJUSTED	FILL VOLUME	EARTHWORK	SUB TOTAL
			EARTH EXCAVATION	FOR SHRINKAGE	EMBANKMENT	BALANCE	
						WASTE (+) OR SHORTAGE (-)	
FROM	TO		CJ YD	CJ YD		CJ YD	
315+00.00	322+00.00	LEFT	150	113	120	-10.00	-10
315+00.00	322+00.00	RIGHT	440	415	235	180	180
TOTAL							170

SEEDING AND EROSION CONTROL SCHEDULE											
LOCATION		SIDE	SEEDING CL 3	NIT FERT NUT	PHOS FERT NUT	POT FERT NUT	TEMP EROSION CONTROL SEEDING	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER	INLET & PIPE PROTECTION	TEMP DITCH CHECKS
STATION TO STATION			(ACRE)	(LB)	(LB)	(LB)	(LB)	(SQ FT)	(LF)	(EACH)	(EACH)
315+00.00 TO 322+00.00		LT	0.16	14	14	14	16	759			
315+00.00 TO 322+00.00		RT	0.28	25	25	25	28	1,382			
315+45.00										1	
315+00.00 TO 317+00.00		LT						5	200		
315+92.72		RT									
318+00.00 TO 320+00.00		LT						188			
318+00.01 TO 319+50.00		RT						196			
315+30.00		RT									1
317+90.00		LT									1
317+90.00		RT									1
318+50.00		LT									1
318+90.00		RT									1
318+75.00		LT									1
319+15.00		RT									1
319+60.00		RT									1
320+10.00		LT									1
320+00.00 TO 322+00.00		LT						200			
NE OF BRIDGE		LT						15			
SE OF BRIDGE		LT						21			
NW OF BRIDGE		RT						24			
SW OF BRIDGE		RT						25			
TOTAL			0.44	39	39	39	44	2530	485	1	9

GUARDRAIL SCHEDULE									
LOCATION			SIDE	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARD RAIL, TYPE A	GUARDRAIL ATTACHED TO STRUCTURE	TBT TY 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL MARKER
STATION	TO	STATION	LT/RT	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)
316+35.00	TO	316+85.00	RT				1	1	
316+91.00	TO	317+41.00	LT				1	1	
316+35.00	TO	320+72.50	RT						18
316+85.00	TO	318+72.50	RT		187.5				
316+91.00	TO	321+41.00	LT						18
317+17.93	TO	323+08.53	RT	590					
317+41.00	TO	318+53.50	LT			112.5			
317+68.32	TO	320+46.96	LT	279					
318+53.50	TO	318+91.00	LT			37.5			
318+72.50	TO	319+10.00	RT			37.5			
318+91.00	TO	320+91.00	LT		200				
319+10.00	TO	320+22.50	RT		112.5				
320+22.50	TO	320+72.50	RT				1	1	
320+91.00	TO	321+41.00	LT				1	1	
TOTAL				869	612.5	75	4	4	36

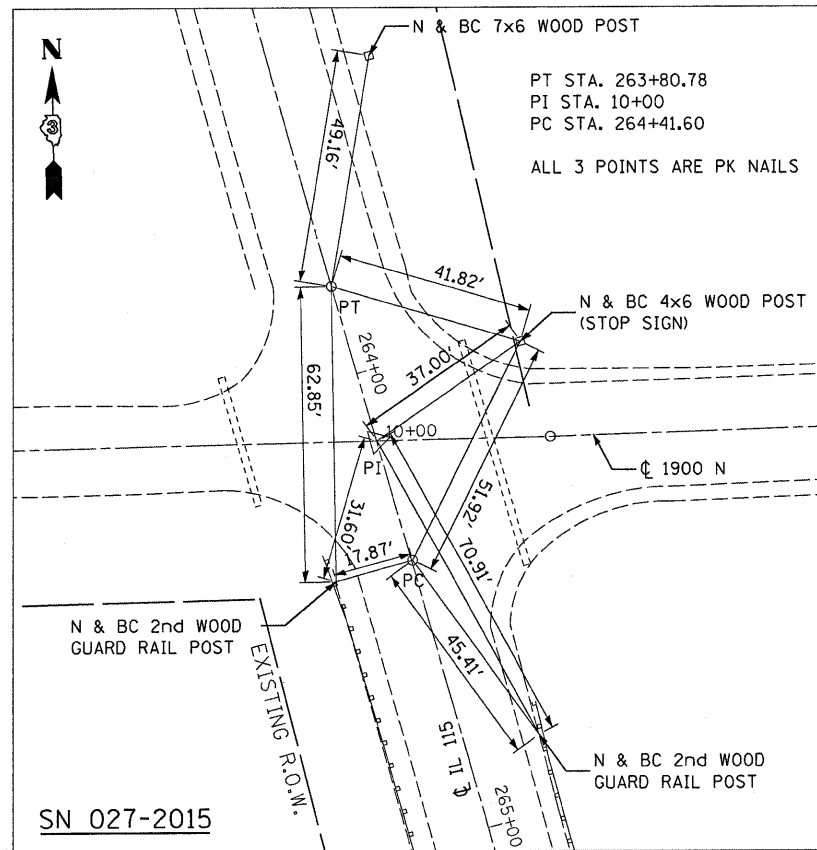
WOVEN WIRE FENCE SCHEDULE					
LOCATION		SIDE	WOVEN WIRE FENCE REMOVAL	WOVEN WIRE FENCE, 4"	
STATION	TO	STATION	LT/RT	(FOOT)	(EACH)
317+50	TO	318+50.00	LT		100
317+50	TO	318+50.00	LT	100	
318+80.00	TO	319+29.00	LT		49
318+88.00	TO	319+29.00	LT	41	
TOTAL				141	149

RIGHT-OF-WAY MARKERS		
LOCATION	EACH	
STA. 317+50, 34' RT	1	
STA. 317+50, 34' LT	1	
STA. 318+50, 50' RT	1	
STA. 319+00, 50' LT	1	
STA. 321+00, 50' LT	1	
STA. 322+00, 34' LT	1	
STA. 322+50, 50' RT	1	
STA. 323+50, 34' RT	1	
TOTAL		8

DRAINAGE STRUCTURE SCHEDULE								
LOCATION			SIDE	REMOVE EXISTING CULVERTS	PIPE CULVERT CLASS D, TY 1 18"	END SECTION 18"	STONE RIPRAP CLASS A4	FILTER FABRIC
STATION	TO	STATION	LT/RT	(EACH)	(FOOT)	(EACH)	(SQ. YD.)	(SQ. YD.)
315+47.20	TO	315+76.93	RT		30			
315+38.75			RT			1		
315+85.22			RT			1		
315+92.72			RT				5	5
316+35.07	TO	316+58.83	RT	1				
318+00.00	TO	320+00.00	LT				188	188
318+00.01	TO	319+50.00	RT				196	196
TOTAL				1	30	2	389	389

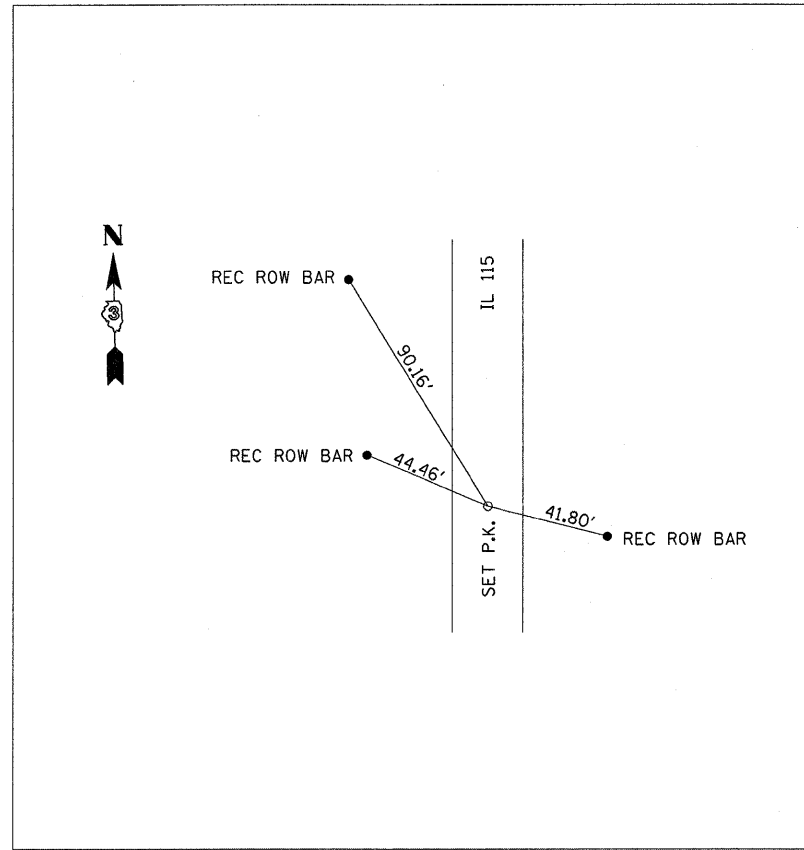
PAVEMENT MARKING SCHEDULE					
LOCATION			SIDE	PAINT PAVEMENT MARKING-LINE 4"	PAINT PAVEMENT MARKING-LINE 6"
STATION	TO	STATION	LT/RT	WHITE (FOOT)	YELLOW SKIP DASH (FOOT)
315+00.00	TO	322+00.00	LT	700	
315+00.00	TO	322+00.00	RT	700	
315+00.00	TO	322+00.00	CL		175
TOTAL				1,400	175

GRADING AND SHAPING DITCHES				
LOCATION			SIDE	GRADING AND SHAPING DITCHES
STATION	TO	STATION	LT/RT	(FOOT)
317+00.00	TO	318+41.00	LT	141
315+00.00	TO	318+79.00	RT	379
318+96.00	TO	322+00.00	LT	304
319+24.00	TO	322+00.00	RT	276
TOTAL				1,100



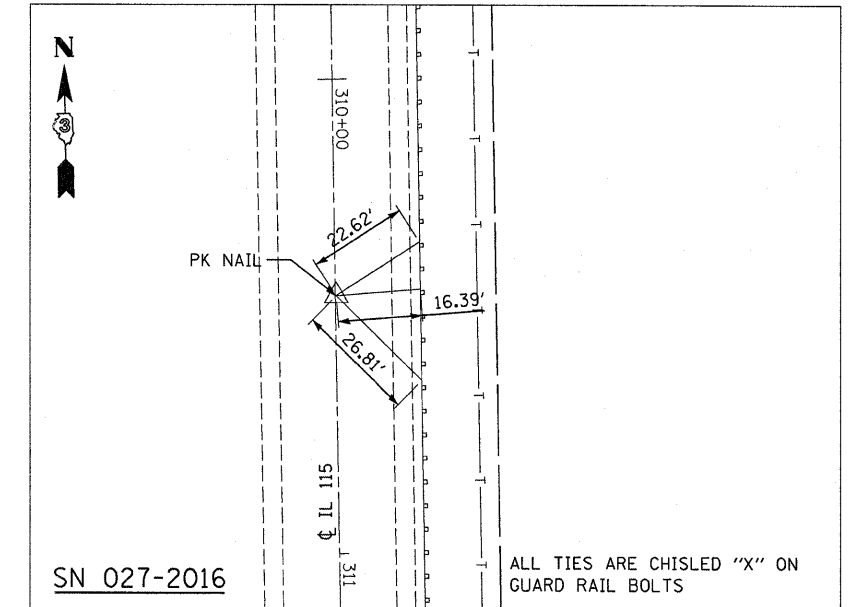
PT STA. 263+80.78, PI STA. 10+00, PC STA. 264+41.60

REPLACE WITH PERMANENT SURVEY MARKER



W 1/4 COR. SEC. 10

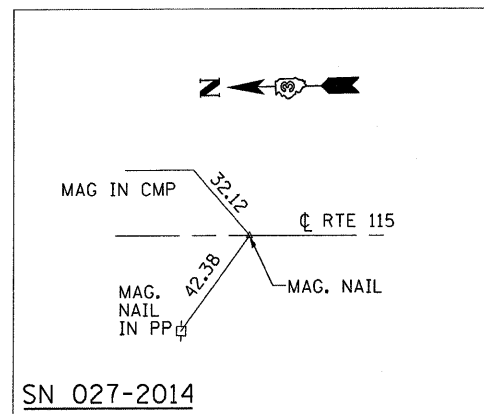
REPLACE WITH PERMANENT SURVEY MARKER



POT STA. 310+45.40

ALL TIES ARE CHISELED "X" ON GUARD RAIL BOLTS

MONUMENT RECORD
LAND SURVEY MONUMENTS SITUATED IN
SECTION 10 TWP 26 NORTH
RANGE 9 EAST, 3RD P.M.
FORD COUNTY, IL.



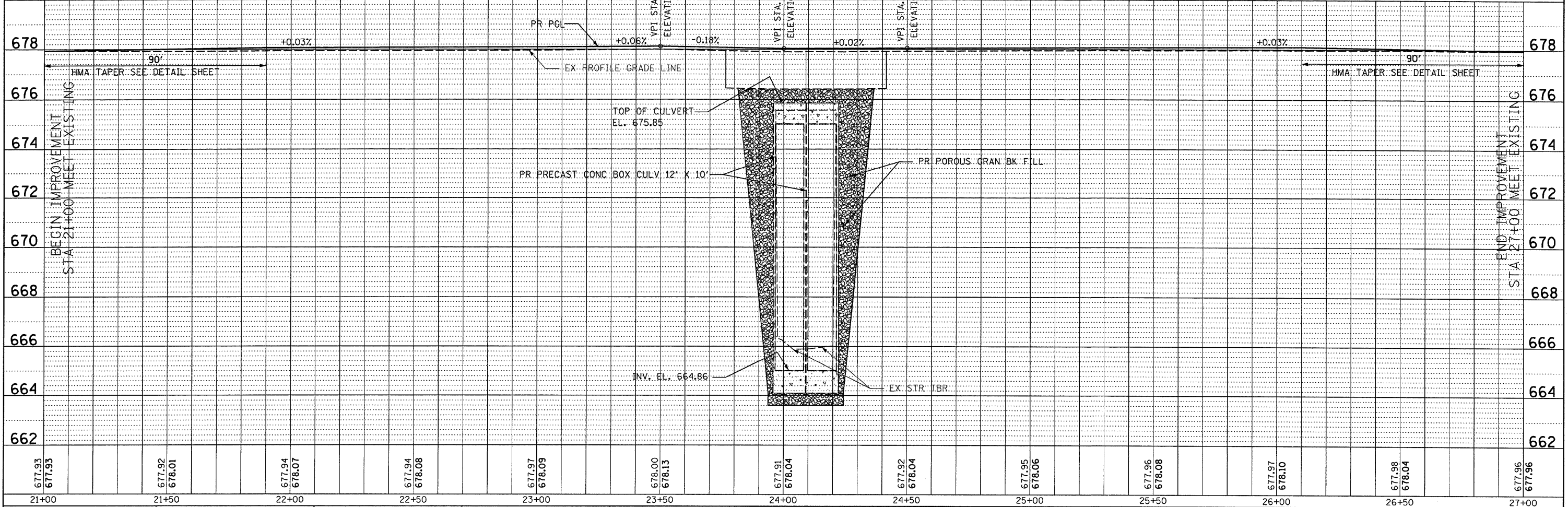
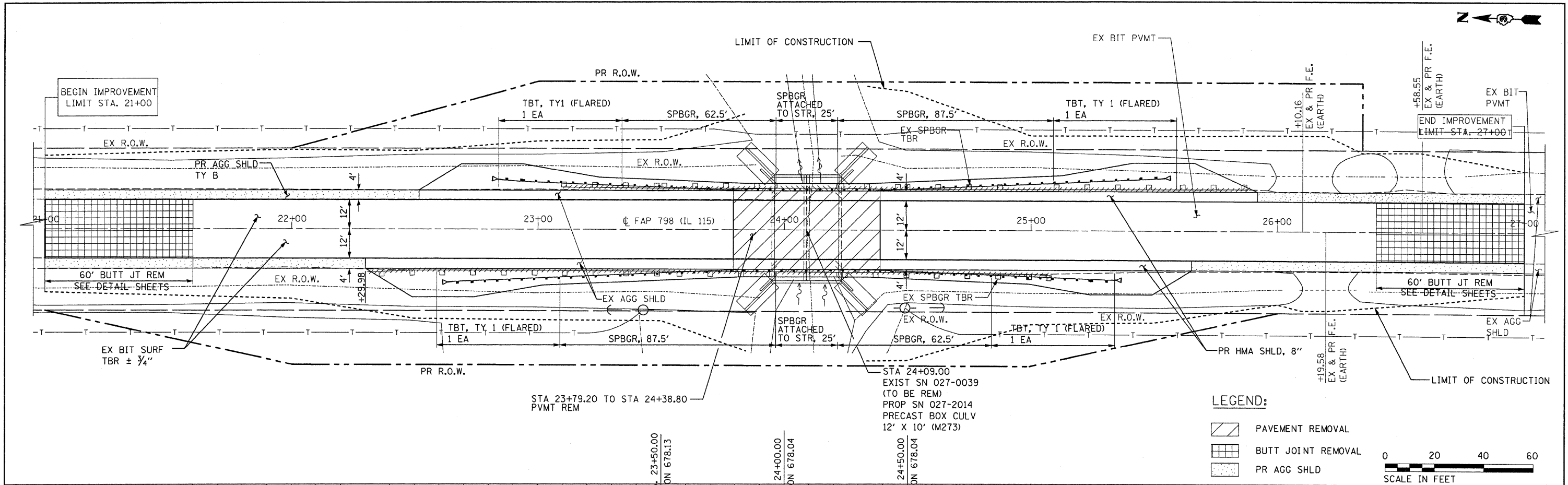
P.O.T. STA. 20+00.00
MAG. NAIL

BENCH MARK INFORMATION				
POINT ID	X	Y	Z	DESCRIPTION
For Culvert SN 027-2015 & SN 027-2016				
BM#1	1026847.737	1460189.013	729.22	R.R. SPIKE IN P.P. AT STA. 263+32.544, 150.47' RT
BM#2	1027206.924	1455002.317	736.876	R.R. SPIKE IN P.P. AT STA. 315+78.739, 32.528' RT
BM#3	1027225.83	1454673.613	735.048	CHISELED "X" AT TOP OF WINGWALL, STA. 319+07.705, 18.95' RT
For Culvert SN 027-2014				
TBM# 117	1026073.06	1484555.71	678.13	R.R. SPIKE IN P.P. WITH GUY WIRE, STA. 19+71, 31' RT
TBM#118	1026083.70	1484184.49	676.74	R.R. SPIKE IN P.P. WITH GUY WIRE, STA. 23+43, 32' RT

FILE NAME =	USER NAME = lindemannms	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT AND TIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr\pwork\PWIDOT\LINDEMANMS\dms30072	ALIGN&TIES.dgn	DRAWN - RM/FZ/DK/NS	REVISED -			798	107 BR, 108-BR, 108-BR-1	FORD	92	17	
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	PLOT DATE = Aug 28, 2008 - 09:27:49 AM	DATE - AUGUST 2008	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

PLAN SURVEYED BY DATE
 ALIGNED BY DATE
 RT. OF WAY CHECKED BY DATE
 ROAD FILE NAME

PROFILE SURVEYED BY DATE
 GRADES CHECKED BY DATE
 S.M. NOTED BY DATE
 STRUCTURE NOTATIONS CHRD



677.93 677.95	677.92 678.01	677.94 678.07	677.94 678.08	677.97 678.09	678.00 678.13	677.91 678.04	677.92 678.04	677.95 678.06	677.96 678.08	677.97 678.10	677.98 678.04	677.96 677.96
21+00	21+50	22+00	22+50	23+00	23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00

FILE NAME =
 c:\pwork\pwsdot\lindemann\ms30072\p

USER NAME = lindemann
 DESIGNED - DB
 DRAWN - RM/FZ/DK/NS
 CHECKED - AS
 DATE - AUGUST 2008

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

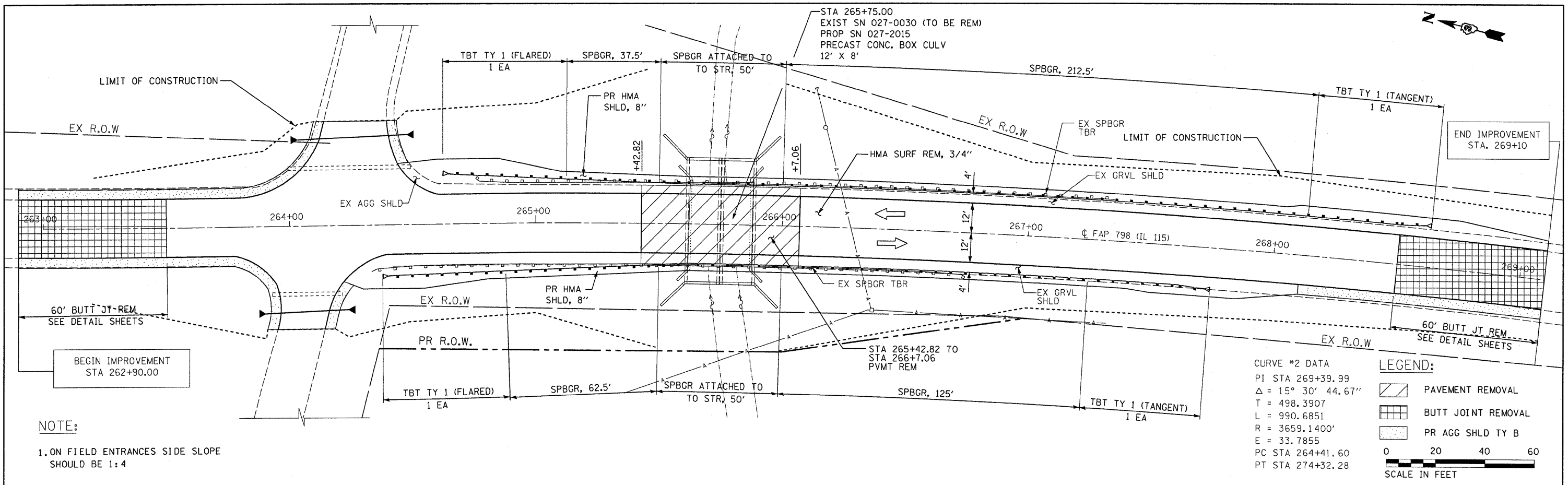
PLAN AND PROFILE
 SN 027-2014

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 21+00 TO STA. 27+00

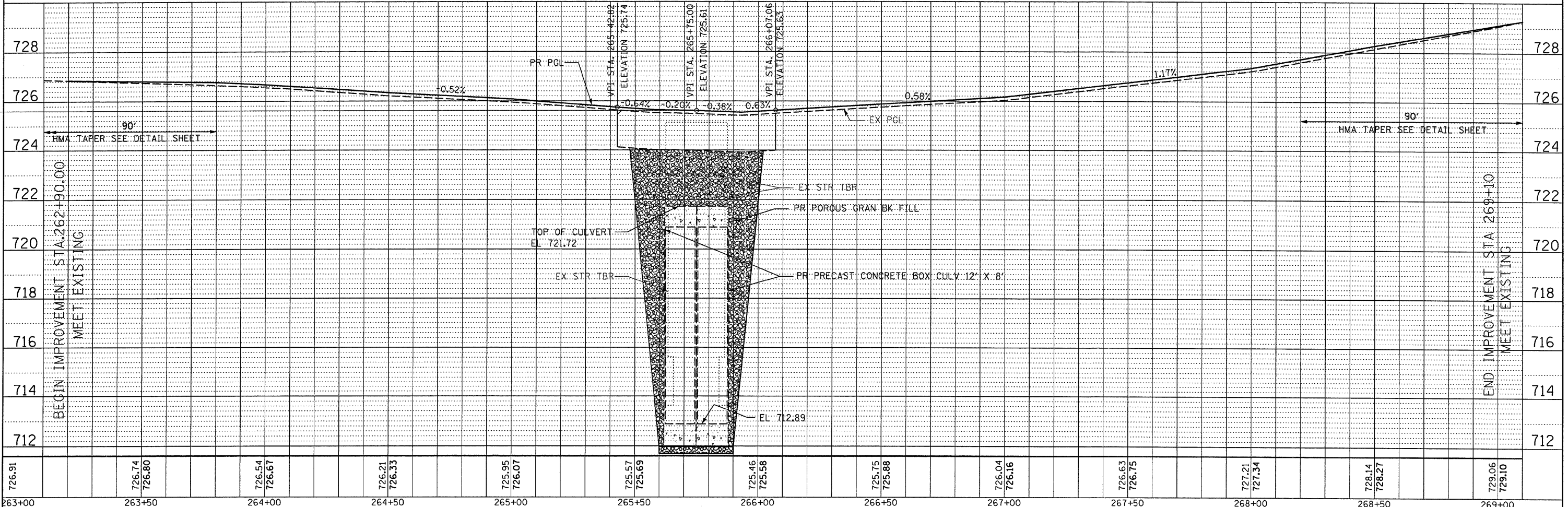
F.A.P. RTE. 798	SECTION 107-BR, 108-BR, 108-BR-1	COUNTY FORD	TOTAL SHEETS 92	SHEET NO. 18
CONTRACT NO. 66698				
ILLINOIS FED. AID PROJECT				

DATE
BY
SURVEYED
ALIGNMENT CHECKED
NOTE BOOK
PT. OF WAY CHECKED
NO.
ROAD FILE NAME

DATE
BY
PROFILE
GRADES CHECKED
NOTE BOOK
B.M. NOTED
STRUCTURE NOTATIONS CHECKED
NO.



NOTE:
1. ON FIELD ENTRANCES SIDE SLOPE SHOULD BE 1:4

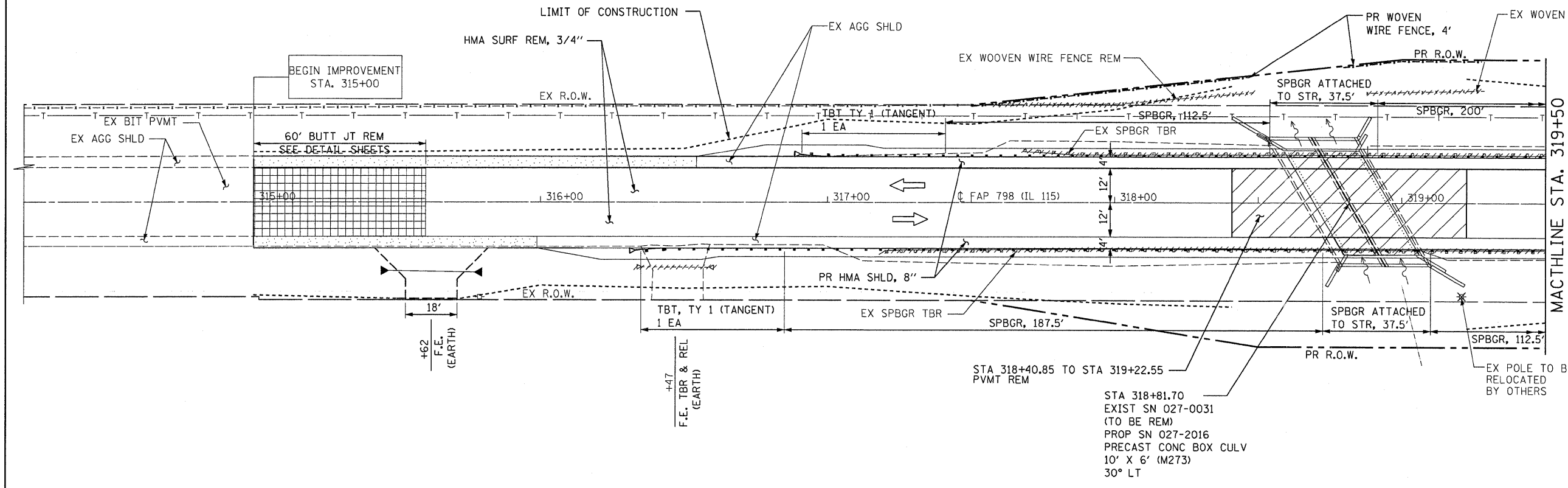


726.91	263+00	726.74 726.80	263+50	726.54 726.67	264+00	726.21 726.33	264+50	725.95 726.07	265+00	725.57 725.69	265+50	725.46 725.58	266+00	725.75 725.88	266+50	726.04 726.16	267+00	726.63 726.75	267+50	727.21 727.34	268+00	728.14 728.27	268+50	729.06 729.10	269+00														
FILE NAME =		USER NAME = lindemanns		DESIGNED - DB		REVISED -		DRAWN - RM/FZ/DK/NS		REVISED -		CHECKED - AS		REVISED -		DATE - AUGUST 2008		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				PLAN AND PROFILE SN 027-2015		SCALE: 1"=20'		SHEET NO. OF SHEETS		STA. 263+20.00 TO STA. 269+10.00		F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.		798 107-BR, 108-BR, 108-BR-1 FORD 92 19		CONTRACT NO. 66698		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



DATE _____ BY _____
 SURVEYED _____
 PLAN _____
 NOTE BOOK _____
 NO. _____

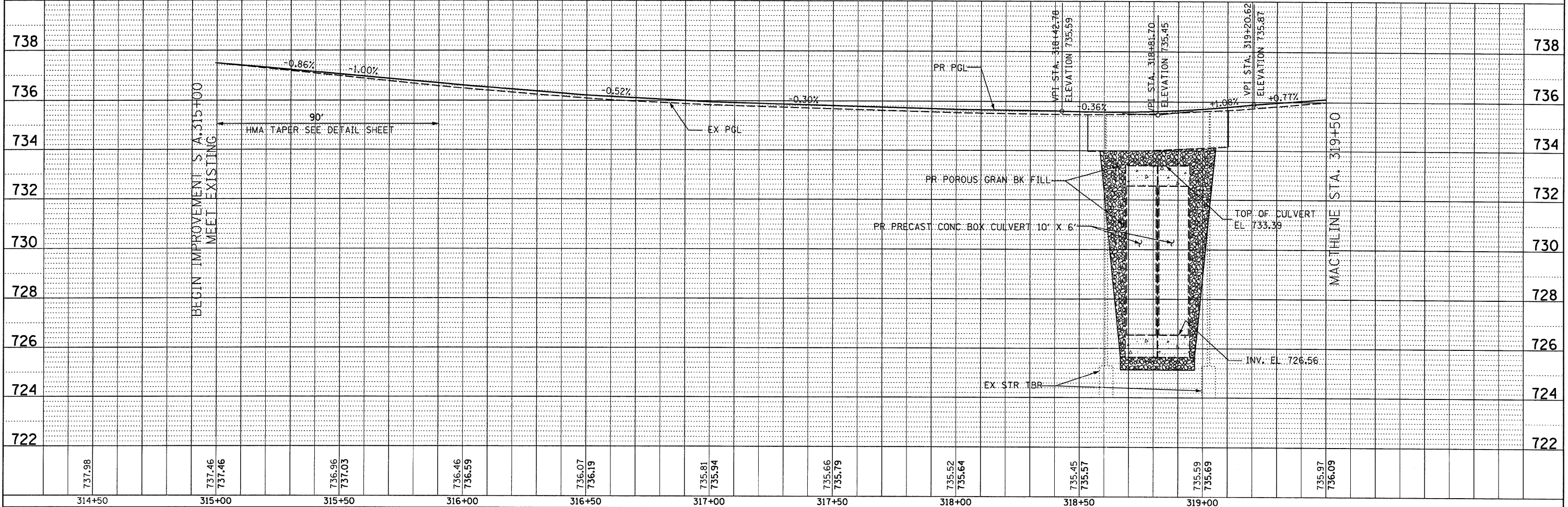
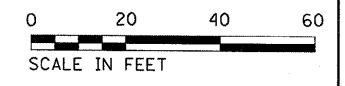
DATE _____ BY _____
 SURVEYED _____
 PROFILE _____
 NOTE BOOK _____
 NO. _____



NOTE:
 1. ON FIELD ENTRANCES SIDE SLOPE SHOULD BE 1:4

LEGEND:

 PAVEMENT REMOVAL
 BUTT JOINT REMOVAL
 PR AGG SHLD TY B

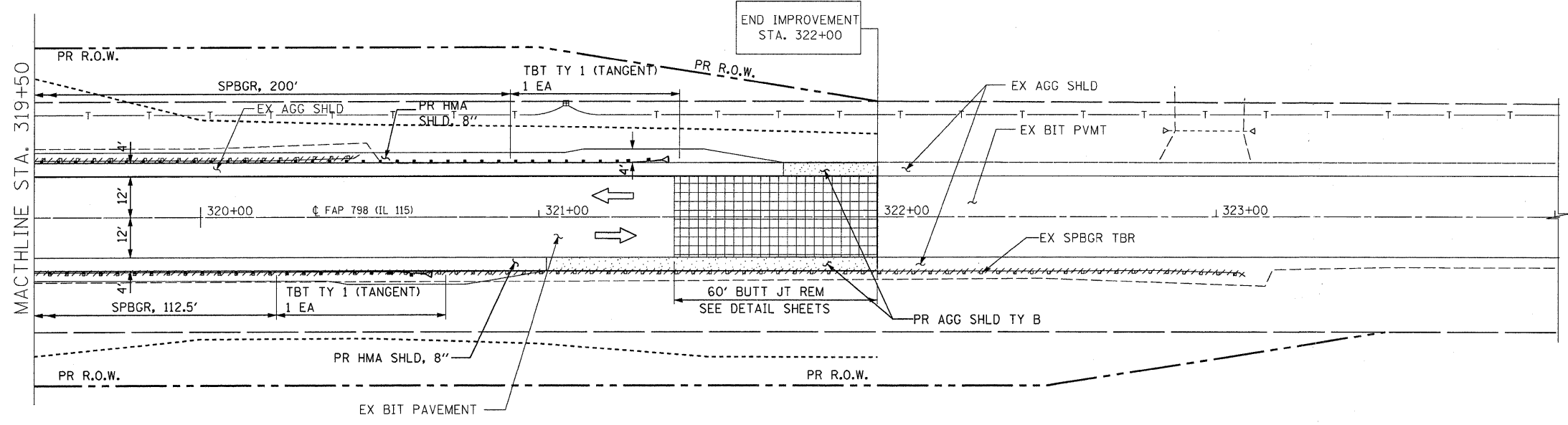


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PLOT SCALE = 20.00' / IN.	CHECKED AS	DATE AUGUST 2008	REVISED -		SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. 315+00 TO STA. 319+50	CONTRACT NO. 66698				
PLOT DATE = Aug 26, 2008 - 08:53:10 AM	DATE	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							



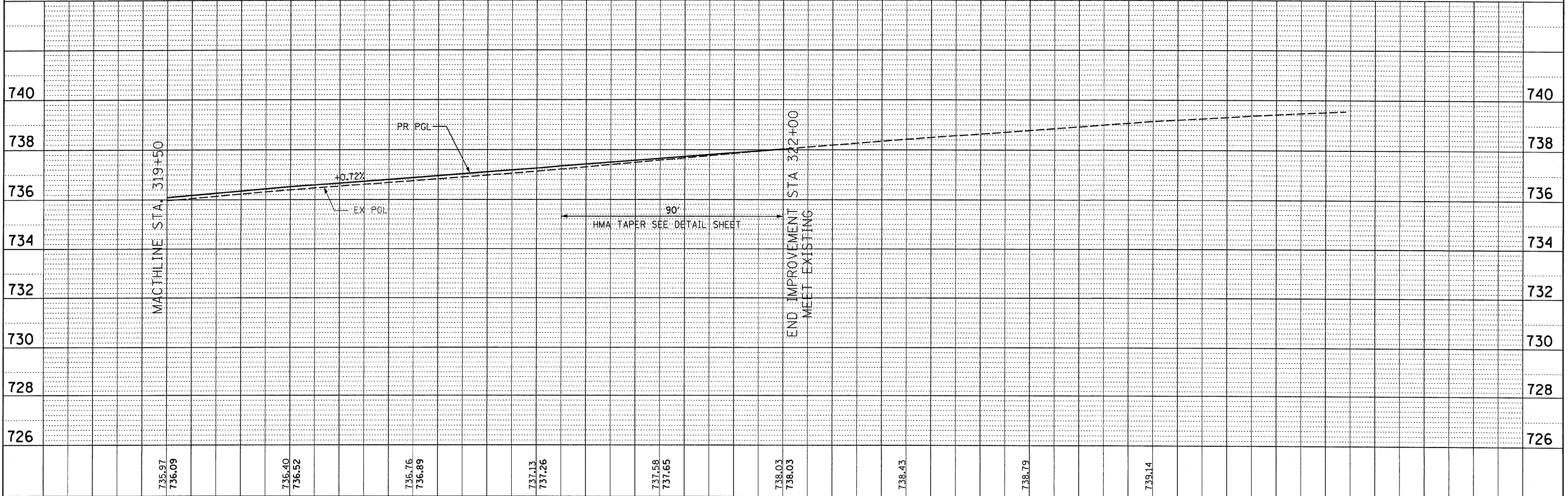
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NO.		
NO.		
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PROFILE	BY	DATE
NO.		
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NO.		

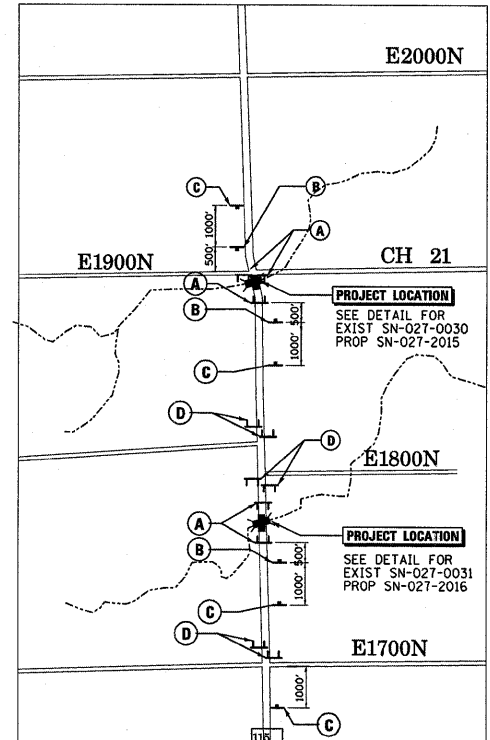
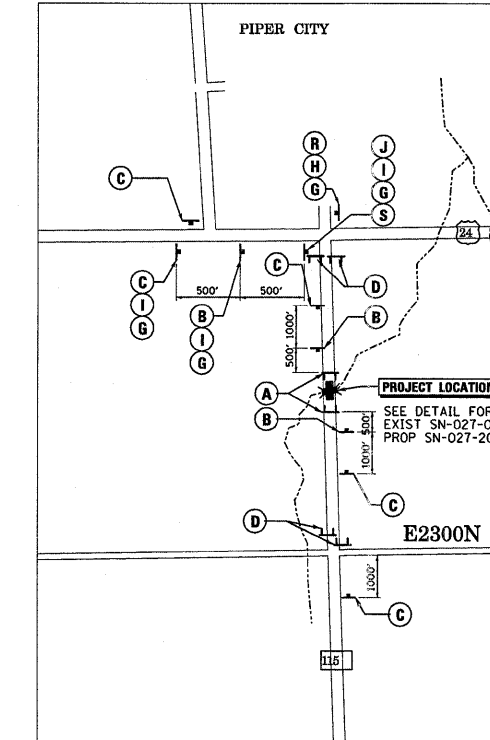
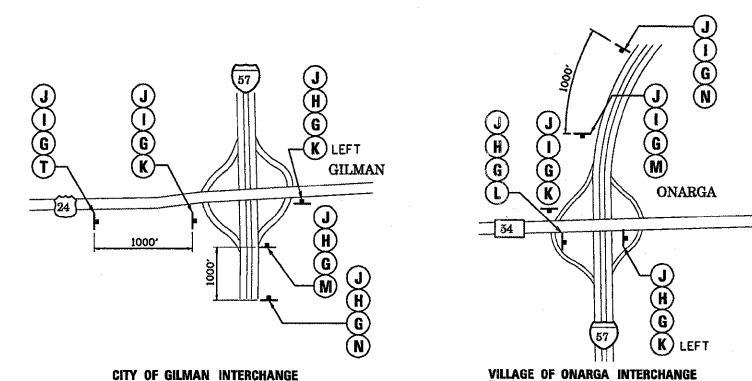
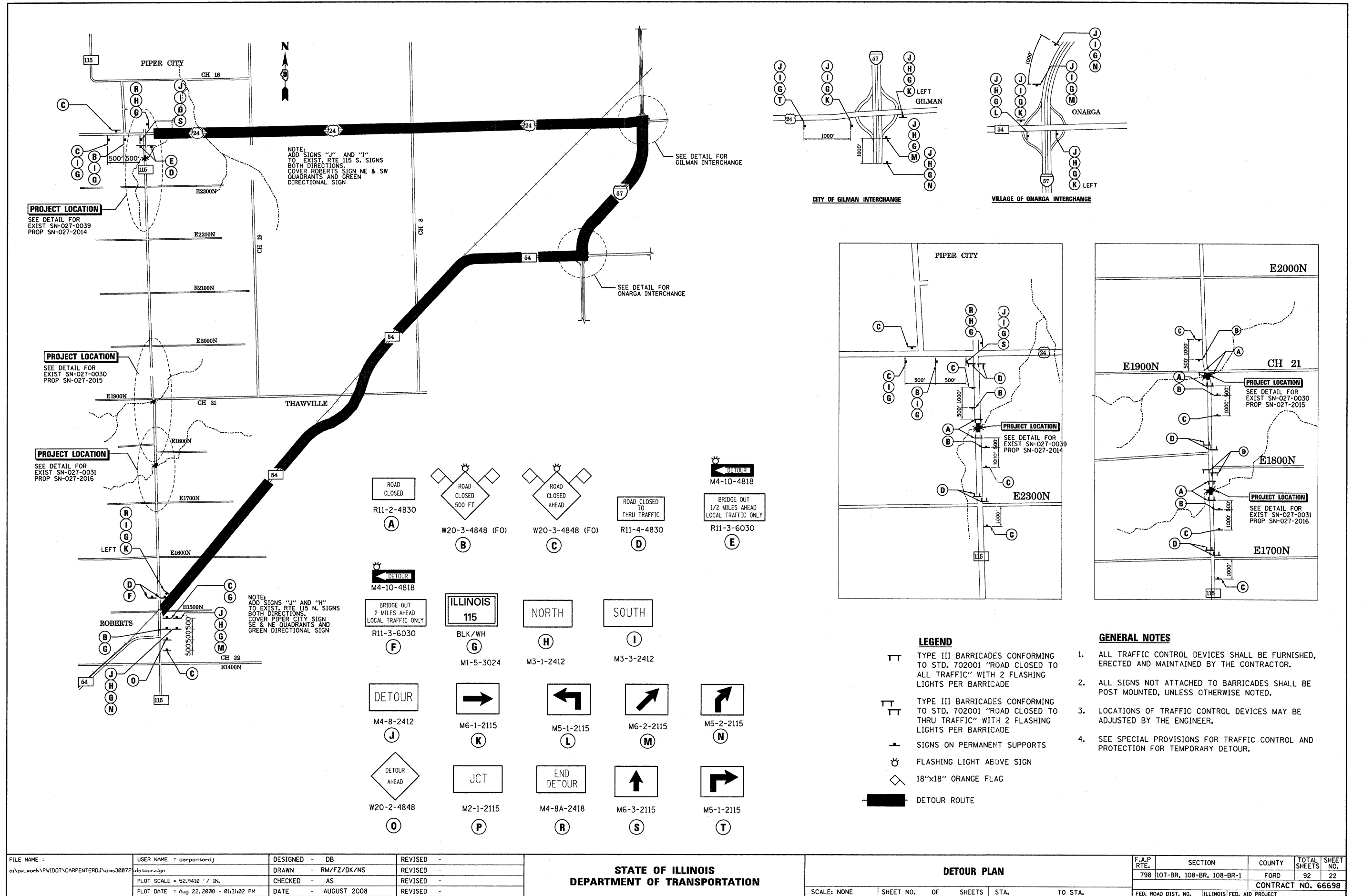


LEGEND:

	BUTT JOINT REMOVAL
	PR AGG SHLD



FILE NAME =	USER NAME = lndemannms	DESIGNED DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE SN 027-2016 SHEET 2 OF 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 20.00' / IN.	CHECKED AS	REVISED -				CONTRACT NO. 66698					
PLOT DATE = Aug 28, 2008 - 08:11:45 AM	DATE AUGUST 2008	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



ROAD CLOSED
R11-2-4830 (A)

ROAD CLOSED 500 FT
W20-3-4848 (F0) (B)

ROAD CLOSED AHEAD
W20-3-4848 (F0) (C)

ROAD CLOSED THRU TRAFFIC
R11-4-4830 (D)

BRIDGE OUT 1/2 MILES AHEAD LOCAL TRAFFIC ONLY
R11-3-6030 (E)

DETOUR
M4-10-4818

BRIDGE OUT 2 MILES AHEAD LOCAL TRAFFIC ONLY
R11-3-6030 (F)

ILLINOIS 115
BLK/WH
M1-5-3024 (G)

NORTH
M3-1-2412 (H)

SOUTH
M3-3-2412 (I)

DETOUR
M4-8-2412 (J)

RIGHT TURN
M6-1-2115 (K)

LEFT TURN
M5-1-2115 (L)

RIGHT TURN
M6-2-2115 (M)

RIGHT TURN
M5-2-2115 (N)

DETOUR AHEAD
W20-2-4848 (O)

JCT
M2-1-2115 (P)

END DETOUR
M4-8A-2418 (R)

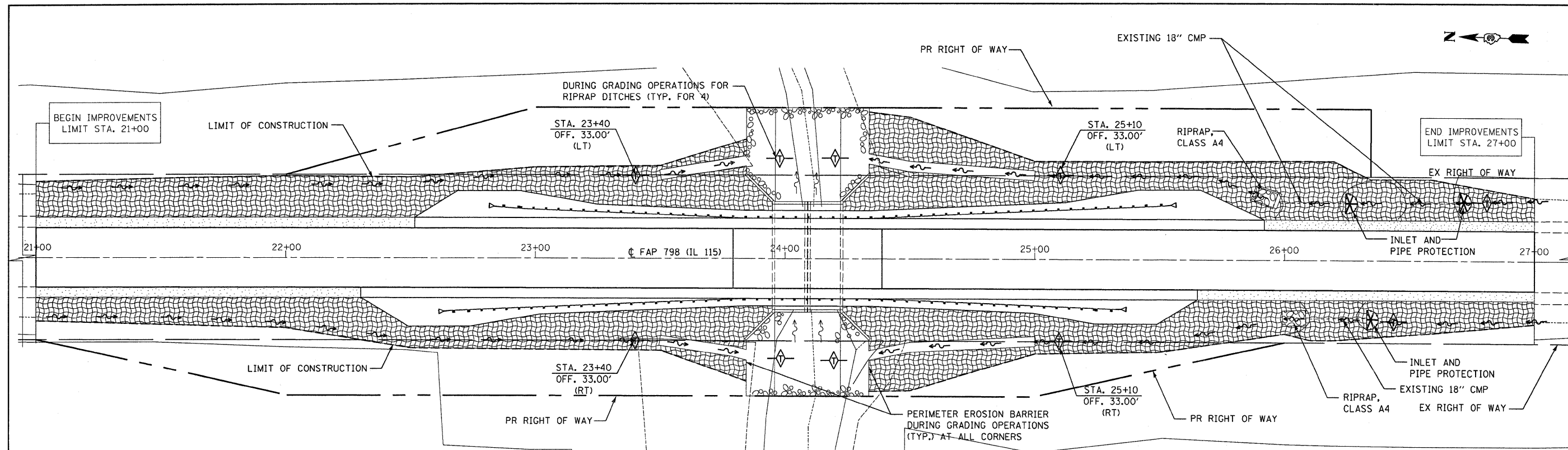
UPWARD TURN
M6-3-2115 (S)

RIGHT TURN
M5-1-2115 (T)

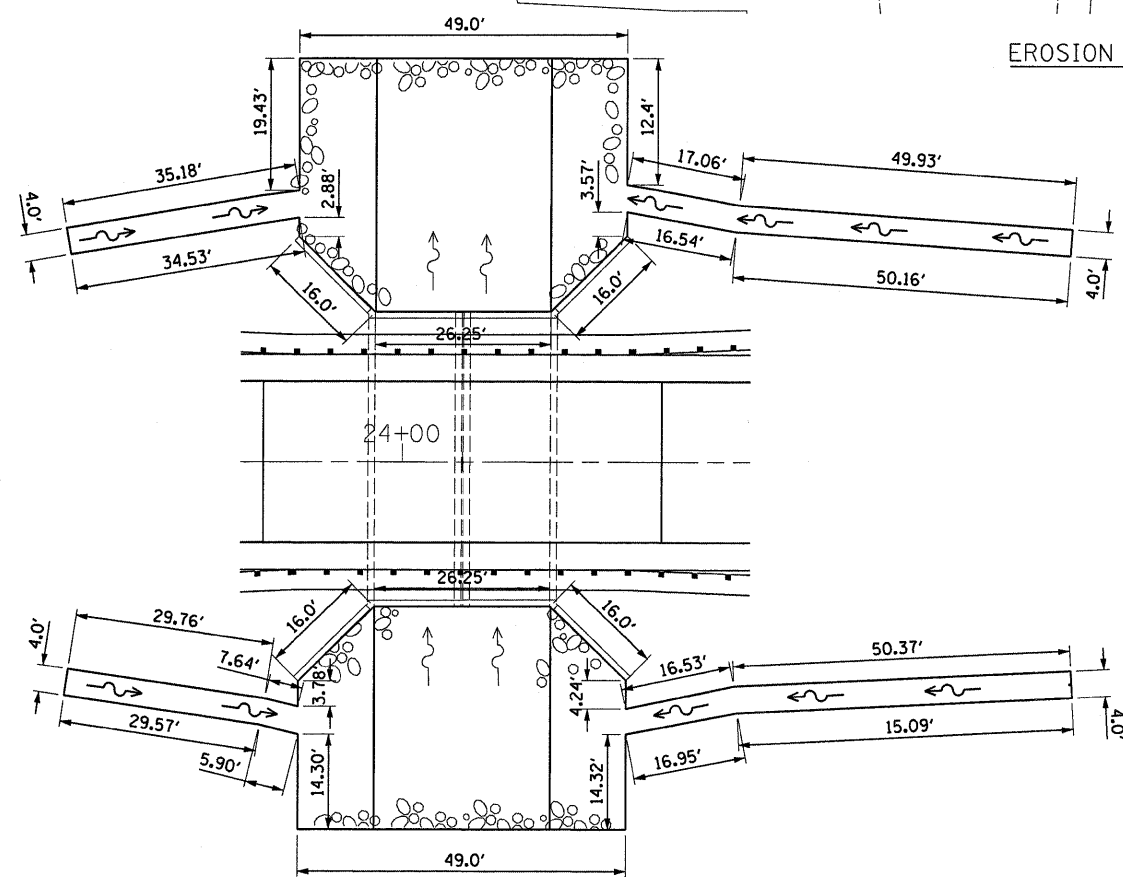
- LEGEND**
- TT TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
 - TT TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
 - + SIGNS ON PERMANENT SUPPORTS
 - ⚡ FLASHING LIGHT ABOVE SIGN
 - ◇ 18"x18" ORANGE FLAG
 - ▬ DETOUR ROUTE

- 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 OTHERWISE NOTED.
 3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
 4. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

FILE NAME =	USER NAME = carpentardj	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN							
drawn	drawn	DRAWN - RM/FZ/DK/NS	REVISED -		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS				
PLOT SCALE = 52,9410' / IN.		CHECKED - AS	REVISED -		798	107-BR, 108-BR, 108-BR-1	FORD	92				
PLOT DATE = Aug 22, 2008 - 01:31:02 PM		DATE - AUGUST 2008	REVISED -		CONTRACT NO. 66698							
				SCALE: NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT



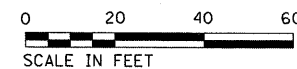
EROSION CONTROL PLAN



RIPRAP LAYOUT PLAN
N.T.S.

LEGEND:

- PROPOSED DITCH
- PROPOSED SWALE
- END SECTION
- TEMPORARY DITCH CHECK
- RIPRAP, CLASS A4
- EROSION CONTROL BLANKET AND PERMANENT SEEDING CLASS 3 (TEMPORARY EROSION CONTROL SEEDING AS NEEDED)
- INLET AND PIPE PROTECTION
- RIPRAP
- PERIMETER EROSION BARRIER



NEW SN 027-2014

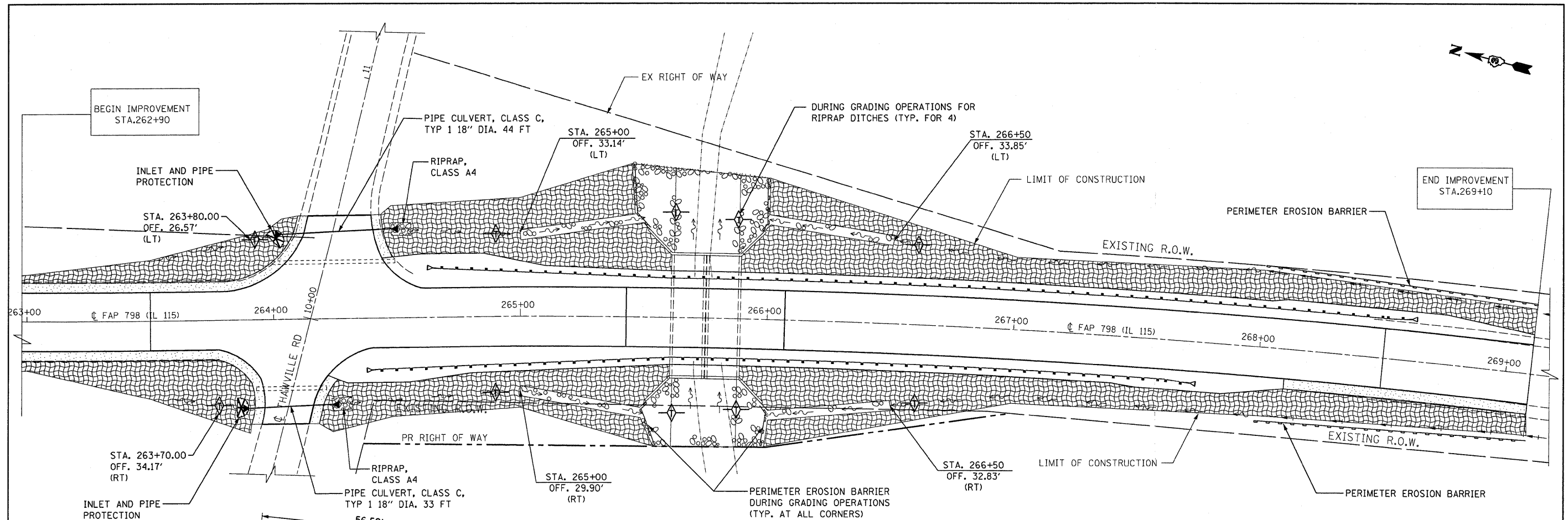
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	PLOT DATE = Aug 22, 2008 - 02:27:42 PM	DATE - AUGUST 2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN
SN 027-2014

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 21+00 TO STA. 27+00

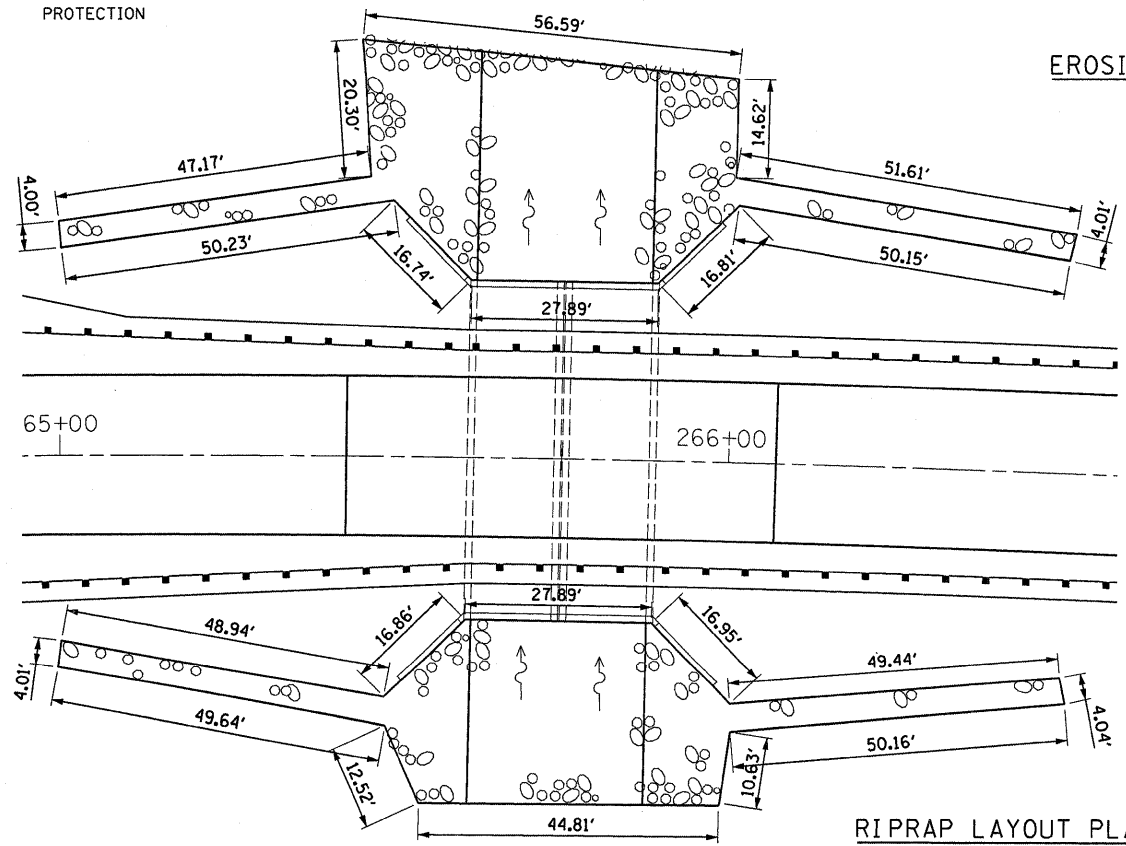
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR, 108-BR, 108-BR-1	FORD	92	23
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



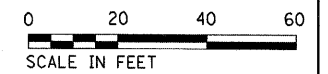
EROSION CONTROL PLAN

LEGEND:

- PROPOSED DITCH
- PROPOSED SWALE
- END SECTION
- TEMPORARY DITCH CHECK
- RIPRAP, CLASS A4
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET AND PERMANENT SEEDING CLASS 3 (TEMPORARY EROSION CONTROL SEEDING AS NEEDED)
- RIPRAP
- PERIMETER EROSION BARRIER



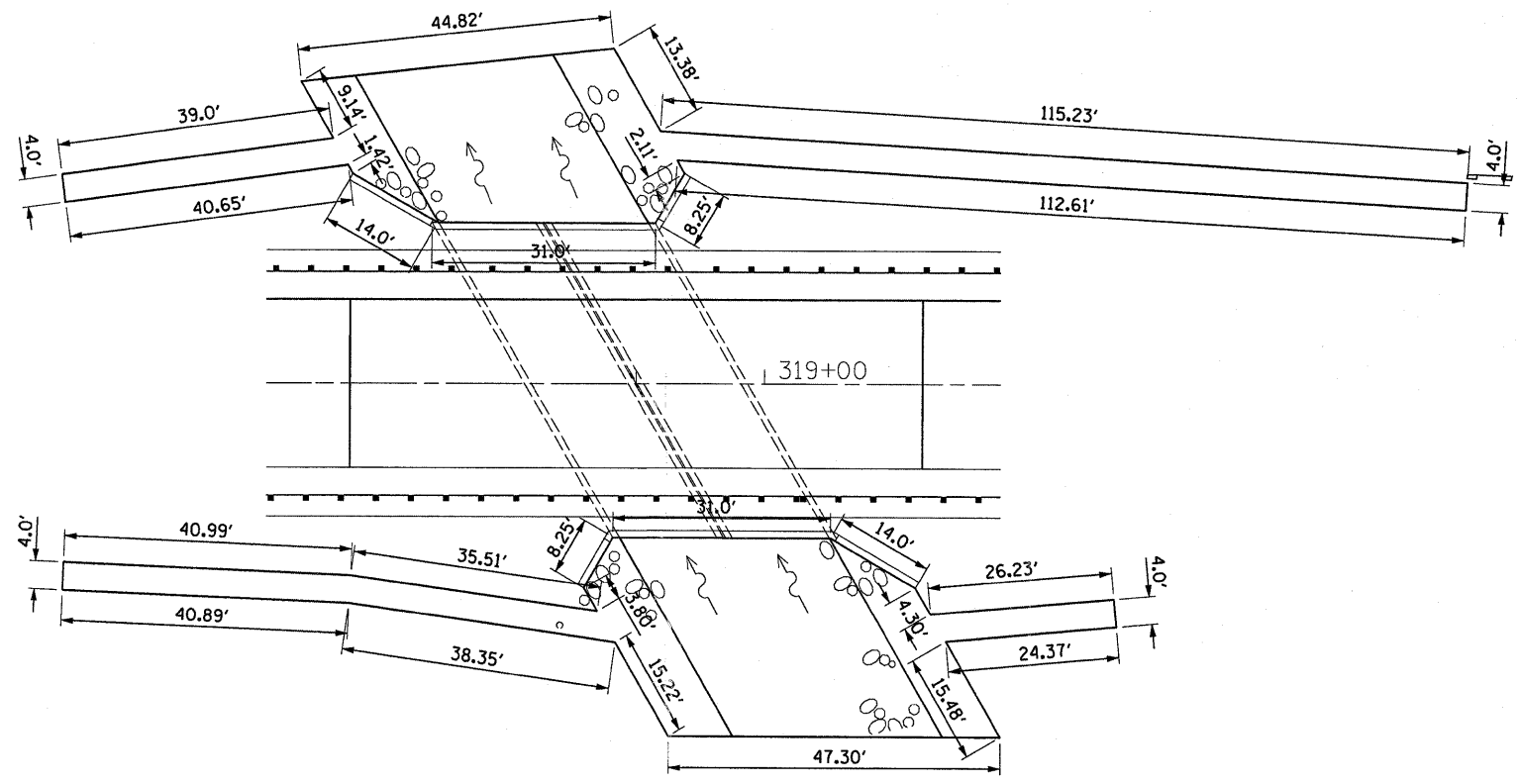
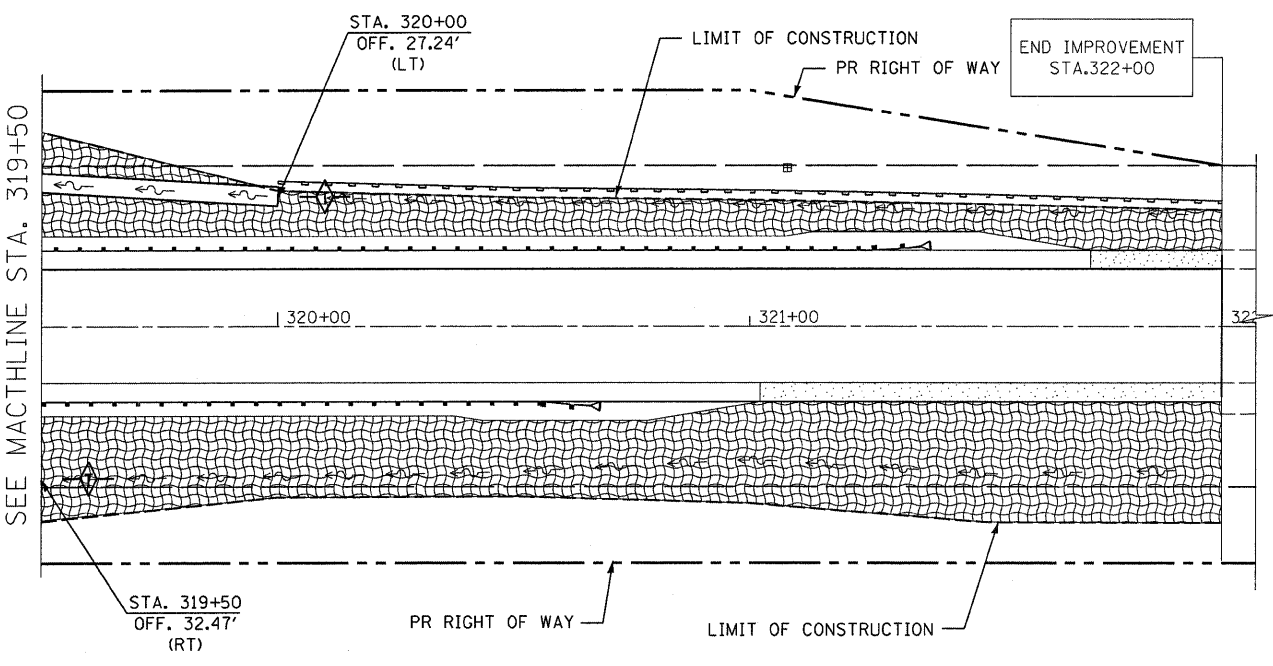
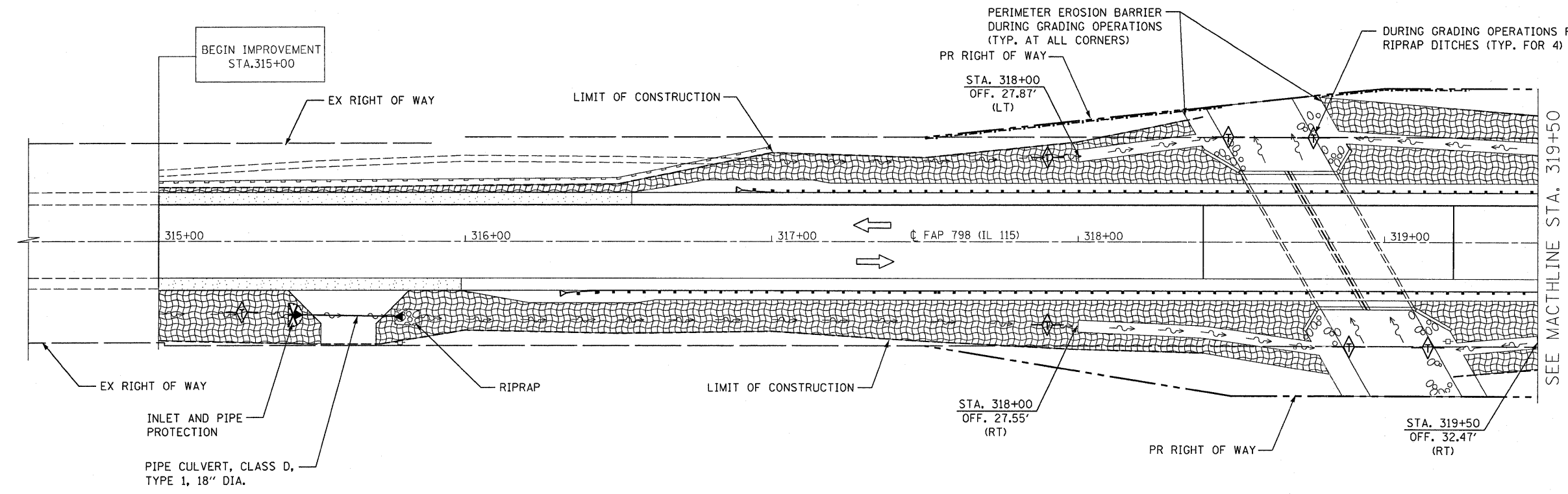
RIPRAP LAYOUT PLAN
N.T.S.



FILE NAME =		USER NAME = carpenterdj	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN SN 027-2015		SN 027-2015				
DRAWN - RM/FZ/DK/NS		CHECKED - AS	DATE - AUGUST 2008	REVISED -				F.A.P. RTE. 798	SECTION 107-BR, 108-BR, 108-BR-1	COUNTY FORD	TOTAL SHEETS 92	SHEET NO. 24
PLOT SCALE = 2L:18' / 1" IN.								SCALE: 1"=20'		SHEET NO. OF SHEETS STA. 263+20 TO STA. 269+10		CONTRACT NO. 66698
PLOT DATE = Aug 22, 2008 - 8:12:28:12 PM								FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

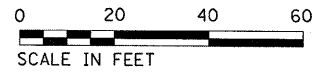


- LEGEND:**
- PROPOSED DITCH
 - PROPOSED SWALE
 - END SECTION
 - TEMPORARY DITCH CHECK
 - RIPRAP, CLASS A4
 - EROSION CONTROL BLANKET AND PERMANENT SEEDING CLASS 3 (TEMPORARY EROSION CONTROL SEEDING AS NEEDED)
 - INLET AND PIPE PROTECTION
 - RIPRAP
 - PERIMETER EROSION BARRIER



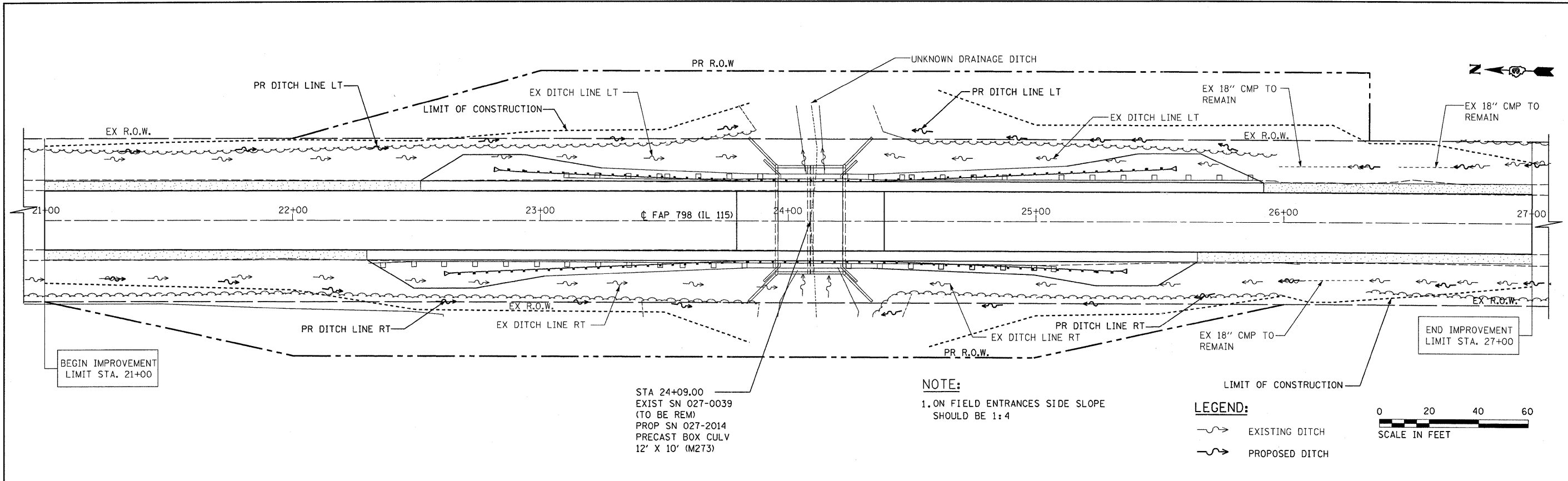
EROSION CONTROL PLAN

RIPRAP LAYOUT PLAN
N.T.S.



FILE NAME =	USER NAME = carpenterd_j	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN SN 027-2016			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT SCALE = 20.00' / IN.	CHECKED - AS	REVISED -		STA. 315+00	TO STA. 322+00		CONTRACT NO. 66698					
	PLOT DATE = Aug 22, 2008 - 01:26:25 PM	DATE - AUGUST 2008	REVISED -		ILLINOIS FED. AID PROJECT								

DATE: _____
 BY: _____
 SURVEYED: _____
 CHECKED: _____
 PLAN: _____
 NOTE BOOK NO.: _____
 CAD FILE NAME: _____

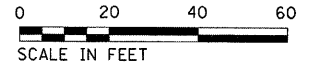


STA 24+09.00
 EXIST SN 027-0039
 (TO BE REM)
 PROP SN 027-2014
 PRECAST BOX CULV
 12' X 10' (M273)

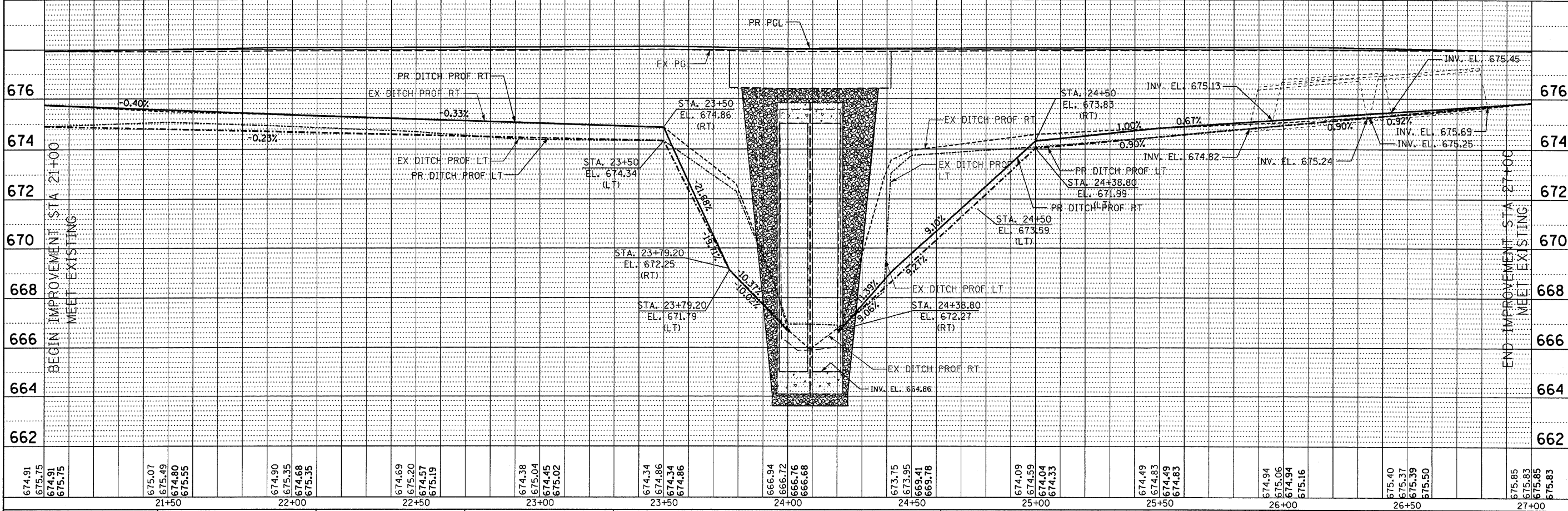
NOTE:
 1. ON FIELD ENTRANCES SIDE SLOPE
 SHOULD BE 1:4

LEGEND:

- EXISTING DITCH
- PROPOSED DITCH



DATE: _____
 BY: _____
 SURVEYED: _____
 CHECKED: _____
 PROFILE: _____
 NOTE BOOK NO.: _____
 STRUCTURE NOTATIONS CHRD: _____



674.91	675.75	674.91	675.75	675.07	675.49	674.80	675.55	674.90	675.35	674.68	675.35	674.69	675.20	674.45	675.02	674.38	675.04	674.45	675.02	674.34	674.96	674.34	674.86	666.94	666.72	666.76	666.68	673.75	673.95	669.41	669.78	674.09	674.59	674.04	674.33	674.49	674.83	674.49	674.83	674.94	675.06	674.94	675.16	675.40	675.37	675.39	675.50	675.85	675.83	675.85	675.83								
				21+50					22+00					22+50					23+00					23+50					24+00					24+50					25+00					25+50					26+00					26+50					27+00

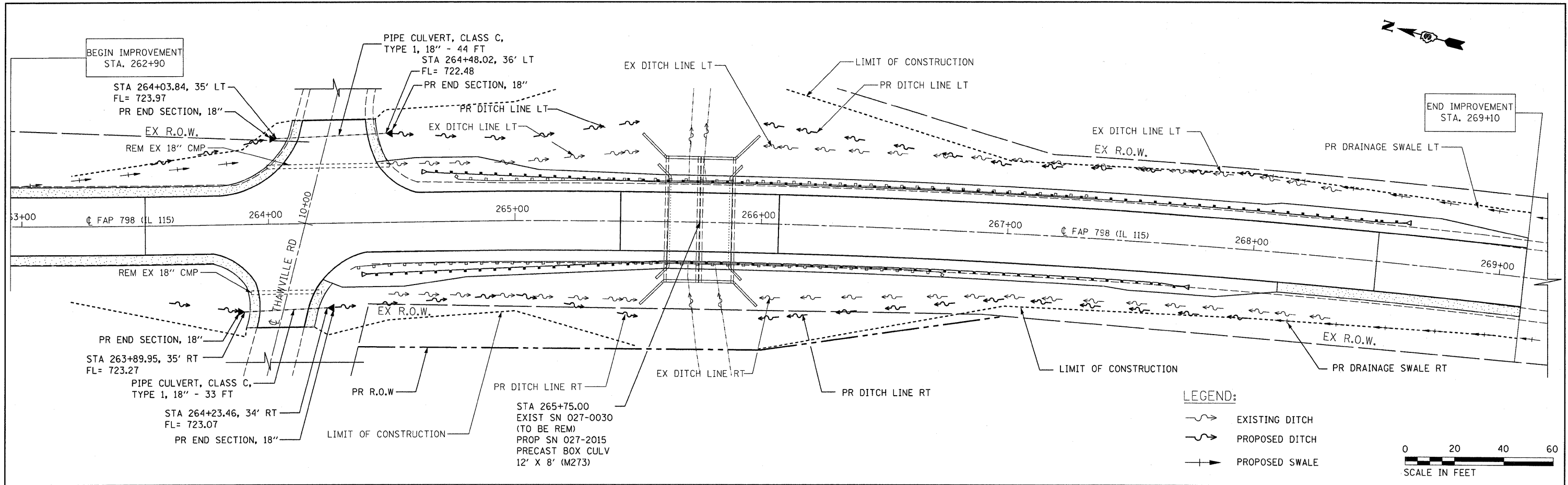
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
 SN 027-2014

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR, 108-BR, 108-BR-1	FORD	92	26
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 21+00 TO STA. 27+00

DATE: _____ BY: _____
 SURVEYED: _____
 PLAN: _____
 NOTE BOOK: _____
 NO.: _____

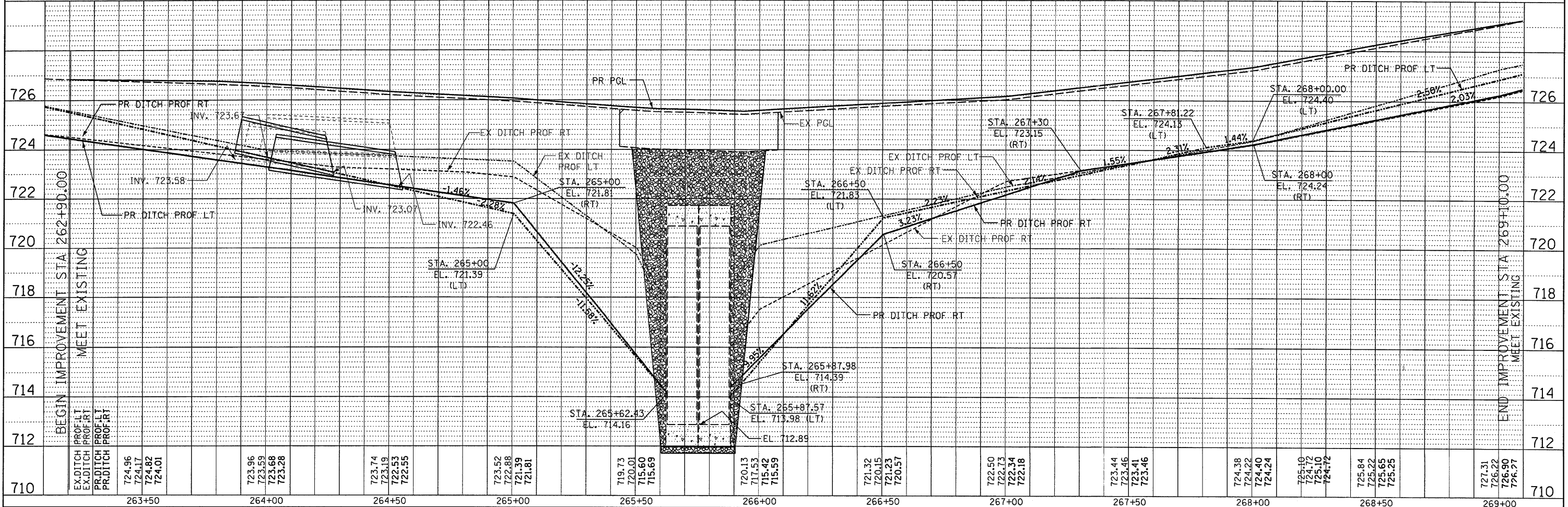


LEGEND:

- EXISTING DITCH
- PROPOSED DITCH
- PROPOSED SWALE

0 20 40 60
 SCALE IN FEET

DATE: _____ BY: _____
 SURVEYED: _____
 PROFILE: _____
 NOTE BOOK: _____
 NO.: _____



710	EX-DITCH	724.96	723.96	723.74	723.52	719.73	720.13	721.32	722.50	723.44	724.38	725.10	725.84	727.31
	DITCH	724.17	723.59	723.19	722.88	720.01	717.53	720.15	722.73	723.46	724.22	724.72	725.22	726.22
	PR-DITCH	724.01	723.68	722.55	721.39	715.60	715.42	720.23	722.34	723.41	724.00	724.72	725.65	726.90
	PR-DITCH		723.28		721.81	715.69	715.59	720.57	722.18	723.46	724.24		725.25	726.71
		263+50	264+00	264+50	265+00	265+50	266+00	266+50	267+00	267+50	268+00	268+50	269+00	

FILE NAME =
 USER NAME = 1ndemannms
 DESIGNED - DB
 DRAWN - RM/FZ/DK/NS
 CHECKED - AS
 DATE - AUGUST 2008

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

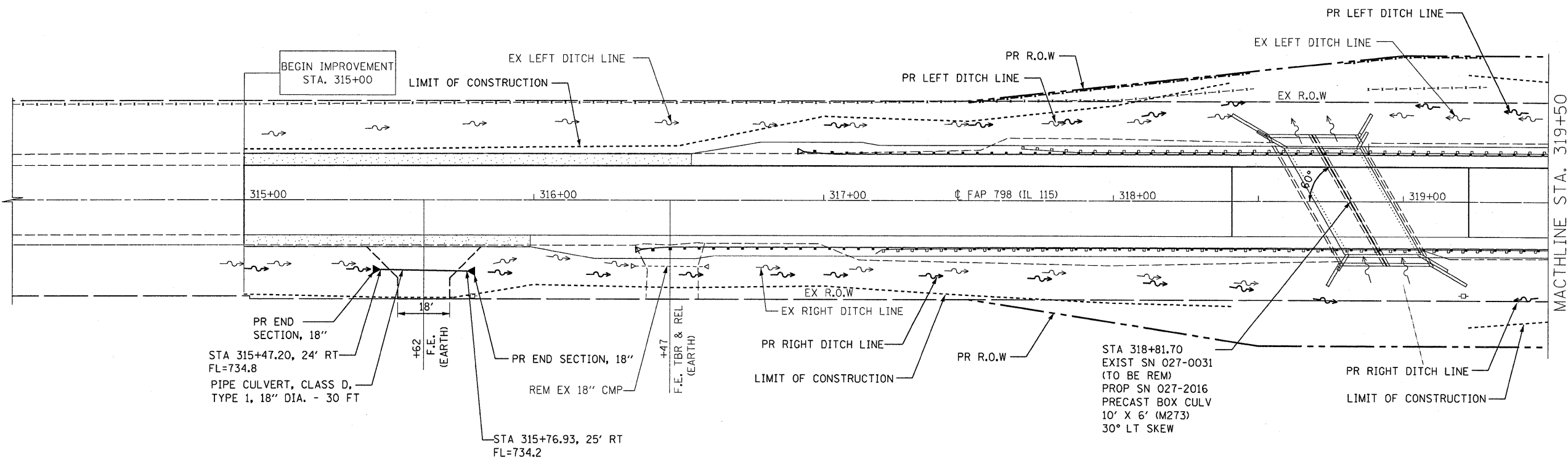
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

S.N. 027-2015 DRAINAGE PLAN AND PROFILE
 SCALE: 1"=20' SHEET NO. OF SHEETS STA. 264+56.69 TO STA. 268+45

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 798 107-BR, 108-BR, 108-BR-1 FORD 92 27
 CONTRACT NO. 66698
 ILLINOIS FED. AID PROJECT

PLAN	DATE
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	

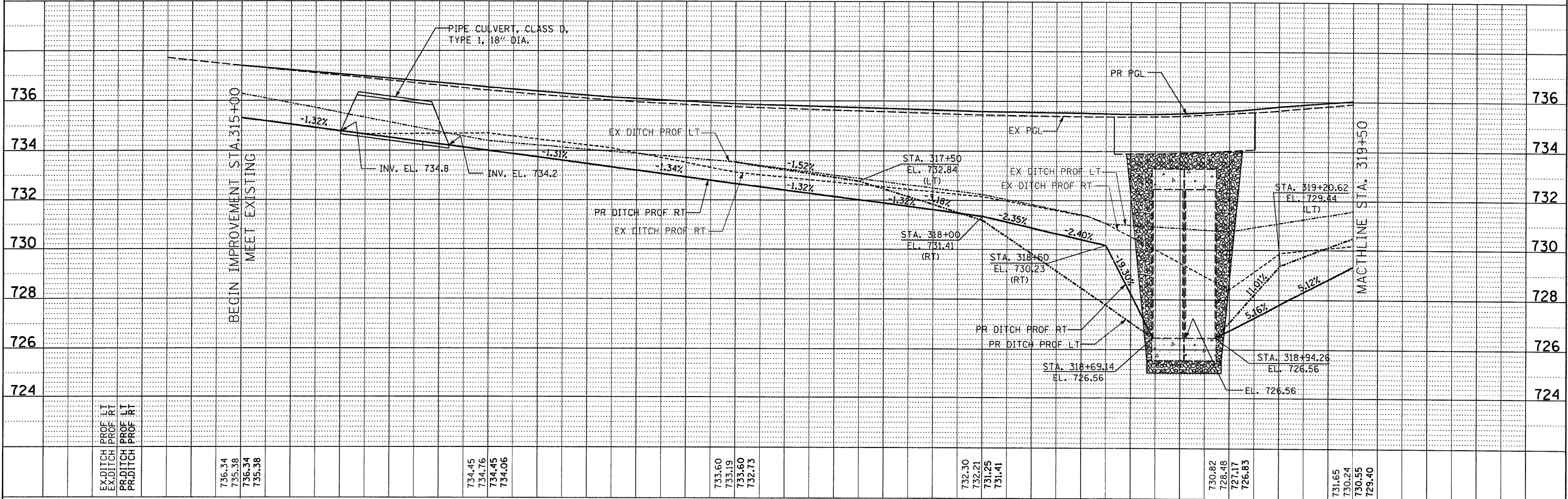
PROFILE	DATE
BY	
REVISIONS	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	
DATE	



LEGEND:

- EXISTING DITCH
- PROPOSED DITCH
- PROPOSED SWALE

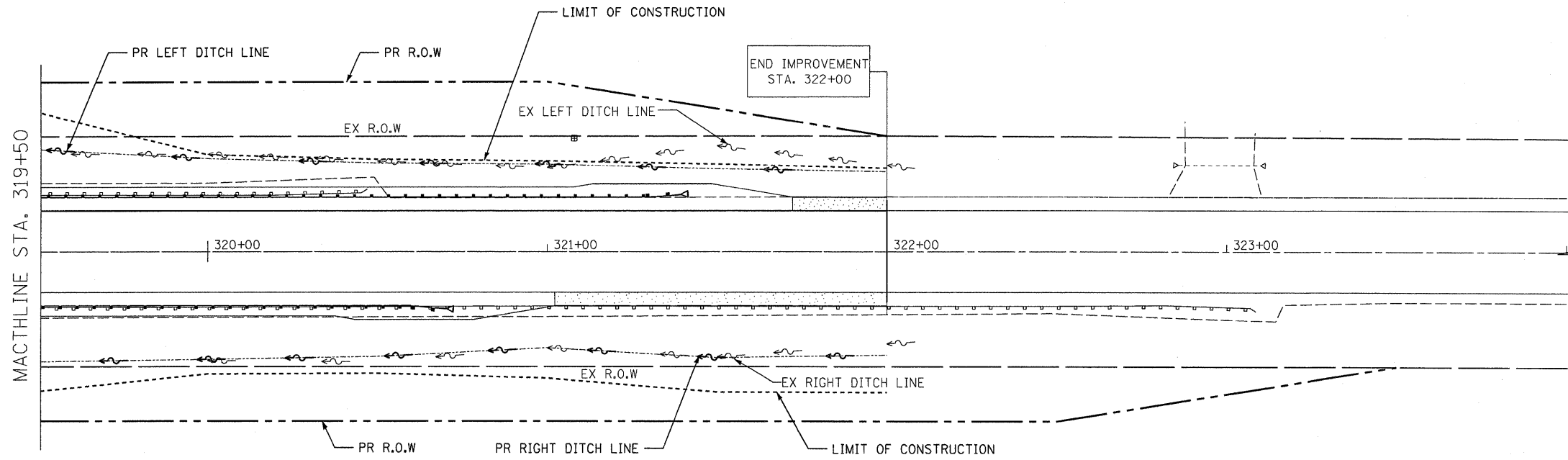
0 20 40 60
SCALE IN FEET



FILE NAME =	USER NAME = lndemannms	DESIGNED DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DRAINAGE PLAN AND PROFILE SN 027-2016 SHEET 1 OF 2		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DATE	DATE	CHECKED AS	REVISED -					798	107-BR, 108-BR, 108-BR-1	FORD	92	28
SCALE = 1"=20'	DATE	DATE	REVISED -					CONTRACT NO. 66698				
SCALE: 1"=20'	DATE	DATE	REVISED -					ILLINOIS FED. AID PROJECT				

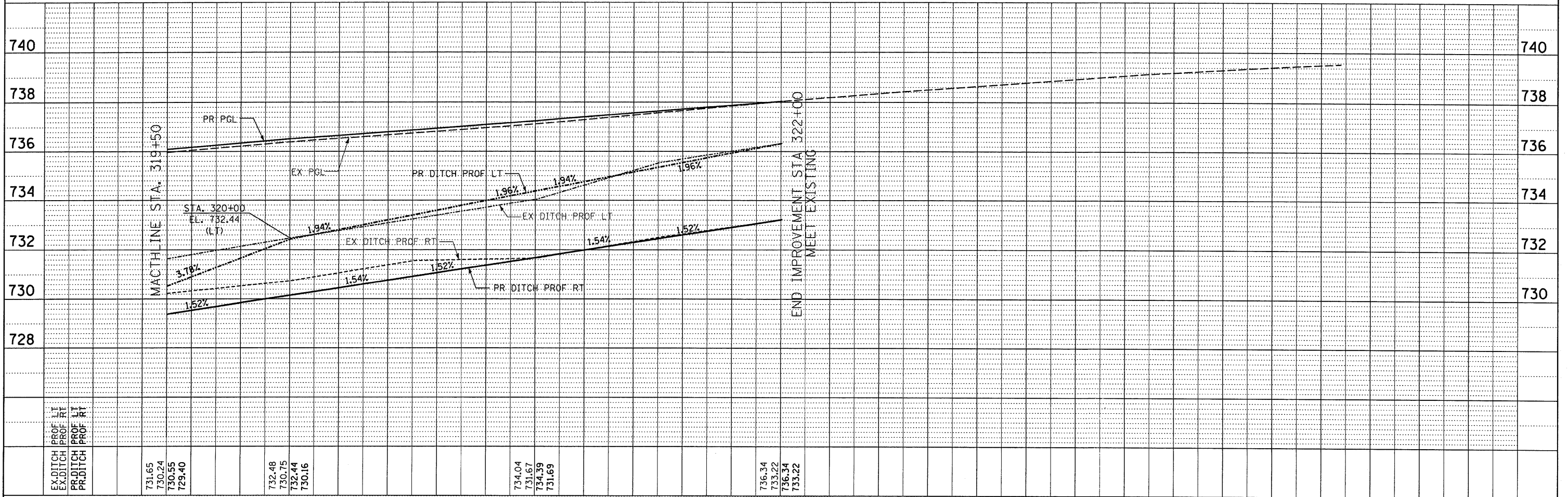
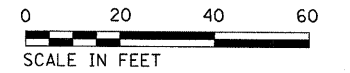
PLAN	DATE
BY	
DATE	
REVISIONS	
NO.	
DATE	
BY	
DATE	
REVISIONS	
NO.	
DATE	
BY	
DATE	

PROFILE	DATE
BY	
DATE	
REVISIONS	
NO.	
DATE	
BY	
DATE	
REVISIONS	
NO.	
DATE	
BY	
DATE	



LEGEND:

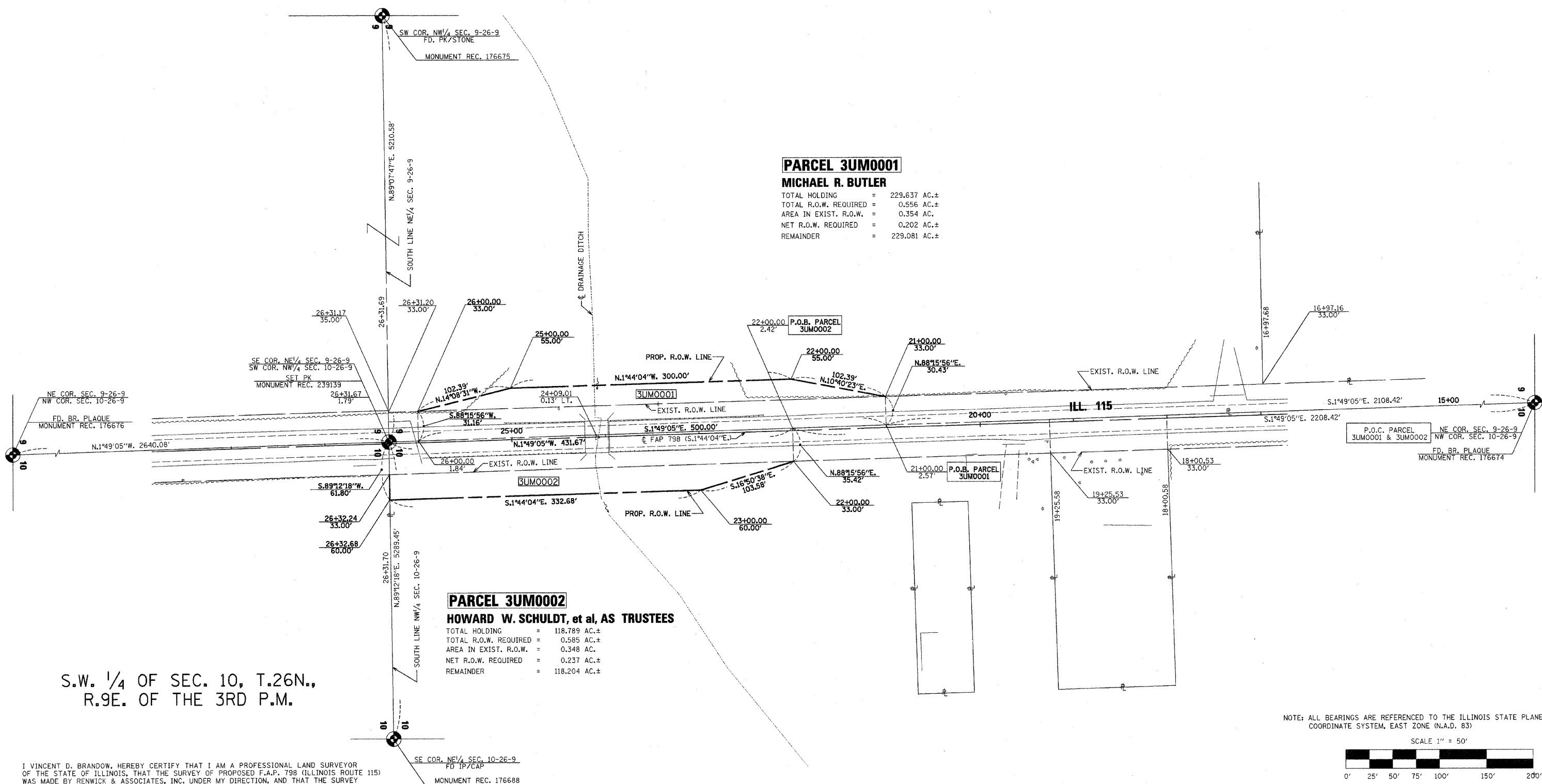
- EXISTING DITCH
- PROPOSED DITCH
- PROPOSED SWALE



FILE NAME =	USER NAME = lndemnmms	DESIGNED DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE SN 027-2016 SHEET 2 OF 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\lndemnmms\dms30072\d	designer\util-0031A.dgn	DRAWN RM/FZ/DK/NS	REVISED -			798	107-BR, 108-BR, 108-BR-1	FORD	92	29	
	PLOT SCALE = 20.00' / IN.	CHECKED AS	REVISED -			CONTRACT NO. 66698					
	PLOT DATE = Aug 27, 2008 - 07:36:18 AM	DATE AUGUST 2008	REVISED -			SCALE: 1"=20'	SHEET NO.	OF	SHEETS	STA. 319+50	TO STA. 322+00

S.E. 1/4 OF SEC. 9, T.26N.,
R.9E. OF THE 3RD P.M.

N.E. 1/4 OF SEC. 9, T.26N., R.9E. OF THE 3RD P.M.



PARCEL 3UM0001
MICHAEL R. BUTLER
 TOTAL HOLDING = 229.637 AC.±
 TOTAL R.O.W. REQUIRED = 0.556 AC.±
 AREA IN EXIST. R.O.W. = 0.354 AC.
 NET R.O.W. REQUIRED = 0.202 AC.±
 REMAINDER = 229.081 AC.±

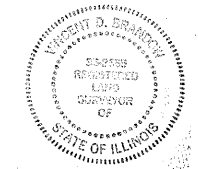
PARCEL 3UM0002
HOWARD W. SCHULTZ, et al, AS TRUSTEES
 TOTAL HOLDING = 118.789 AC.±
 TOTAL R.O.W. REQUIRED = 0.585 AC.±
 AREA IN EXIST. R.O.W. = 0.348 AC.
 NET R.O.W. REQUIRED = 0.237 AC.±
 REMAINDER = 118.204 AC.±

S.W. 1/4 OF SEC. 10, T.26N.,
R.9E. OF THE 3RD P.M.

I VINCENT D. BRANDOW, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED F.A.P. 798 (ILLINOIS ROUTE 115) WAS MADE BY RENWICK & ASSOCIATES, INC. 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. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DATE: 04-11-08

Vincent D. Brandow
 ILLINOIS PROFESSIONAL LAND SURVEYOR
 NO. 2655

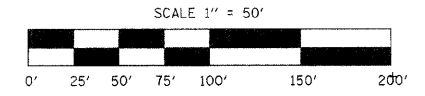


SURVEY BOOK NO. _____

11-30-08
 EXPIRATION DATE

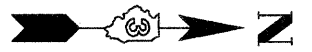
N.W. 1/4 OF SEC. 10, T.26N., R.9E. OF THE 3RD P.M.

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83)



RIGHT OF WAY PLANS	
ROUTE	F.A.P. 798 (ILL. ROUTE 115)
SECTION	107BR
PROJECT	
COUNTY	FORD
JOB NUMBER	R-93-005-07
STATION	20+00 TO 27+00
SHEET	1 OF 1 SCALE 1" = 50'

NE 1/4 OF SEC. 4 T.25N., R.9E. OF THE 3RD P.M.

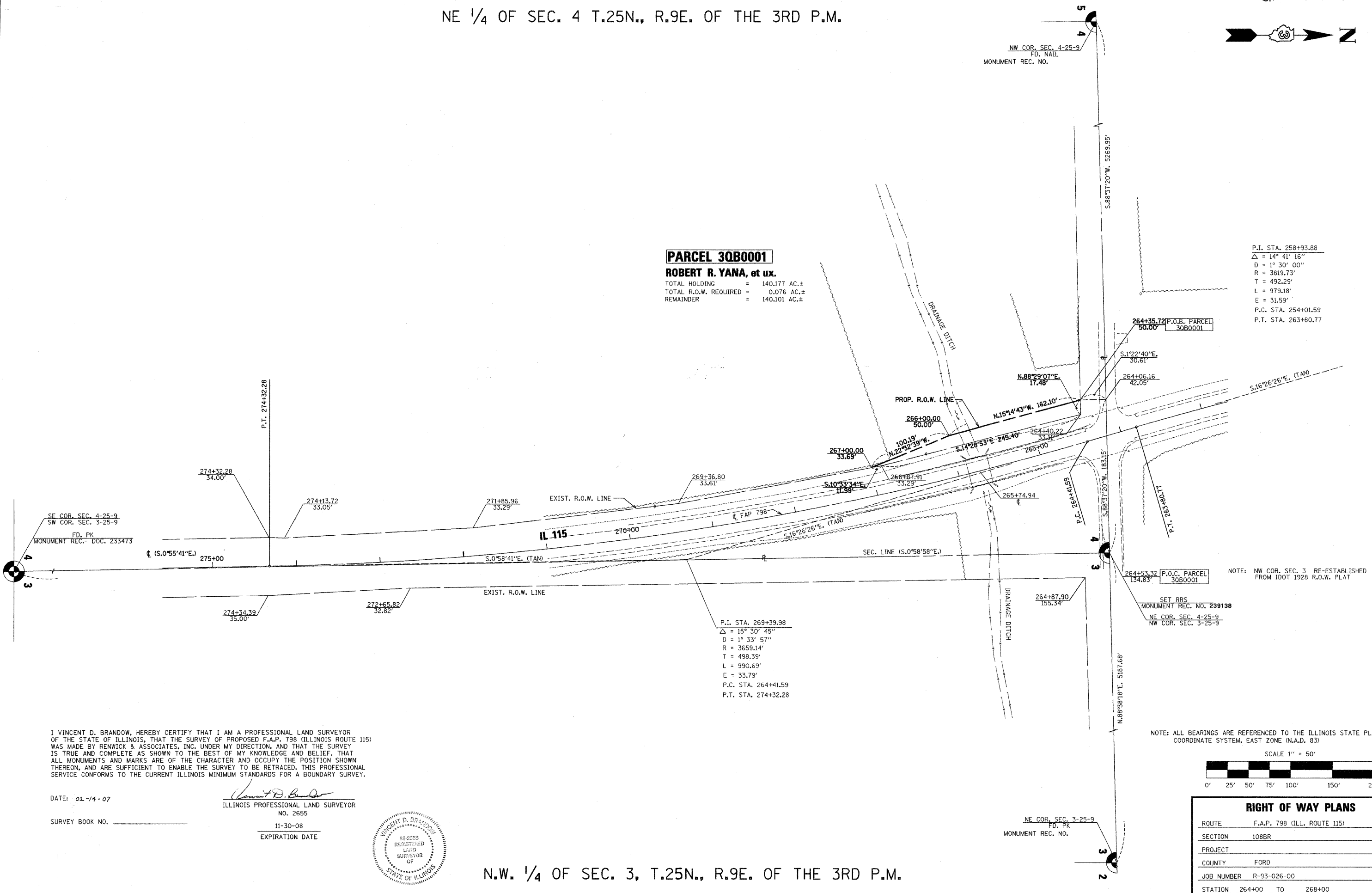


PARCEL 30B0001

ROBERT R. YANA, et ux.

TOTAL HOLDING = 140.177 AC.±
TOTAL R.O.W. REQUIRED = 0.076 AC.±
REMAINDER = 140.101 AC.±

P.I. STA. 258+93.88
Δ = 14° 41' 16"
D = 1° 30' 00"
R = 3819.73'
T = 492.29'
L = 979.18'
E = 31.59'
P.C. STA. 254+01.59
P.T. STA. 263+80.77



NOTE: NW COR. SEC. 3 RE-ESTABLISHED FROM IDOT 1928 R.O.W. PLAT

P.I. STA. 269+39.98
Δ = 15° 30' 45"
D = 1° 33' 57"
R = 3659.14'
T = 498.39'
L = 990.69'
E = 33.79'
P.C. STA. 264+41.59
P.T. STA. 274+32.28

I VINCENT D. BRANDOW, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED F.A.P. 798 (ILLINOIS ROUTE 115) WAS MADE BY RENWICK & ASSOCIATES, INC. 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. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DATE: 02-14-07

Vincent D. Brandow
ILLINOIS PROFESSIONAL LAND SURVEYOR
NO. 2655

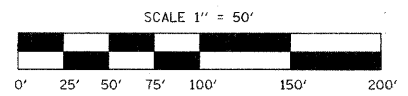
SURVEY BOOK NO. _____

11-30-08
EXPIRATION DATE



N.W. 1/4 OF SEC. 3, T.25N., R.9E. OF THE 3RD P.M.

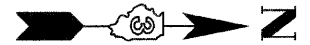
NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83)



RIGHT OF WAY PLANS

ROUTE	F.A.P. 798 (ILL. ROUTE 115)
SECTION	108BR
PROJECT	
COUNTY	FORD
JOB NUMBER	R-93-026-00
STATION	264+00 TO 268+00
SHEET	1 OF 1 SCALE 1" = 50'

NE 1/4 OF SEC. 4 T.25N., R.9E. OF THE 3RD P.M.



PARCEL 3UL0001

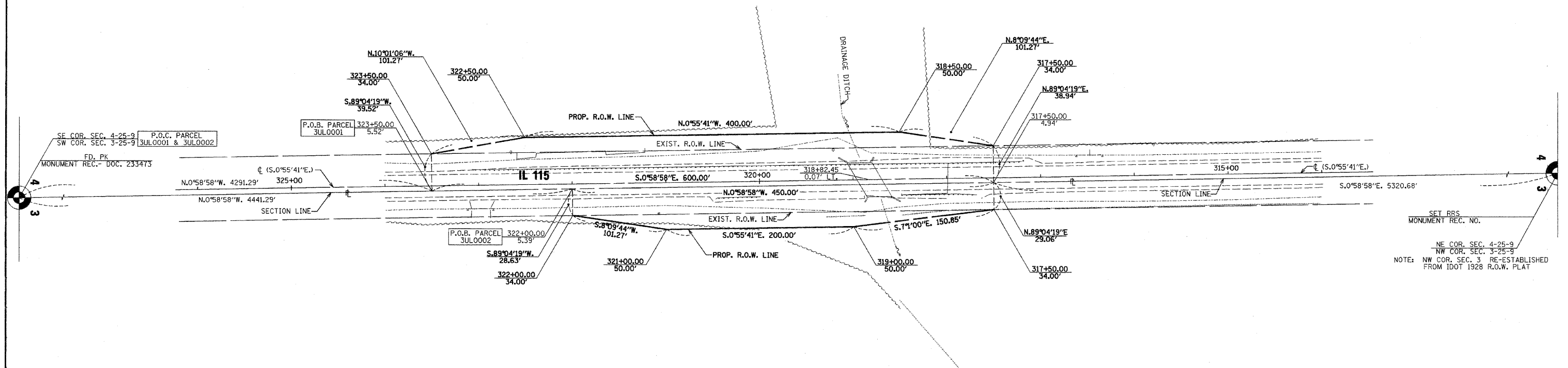
VERA EVADELL JOHNSON, LIFE ESTATE

TOTAL HOLDING = 165.441 AC.±
 TOTAL R.O.W. REQUIRED = 0.724 AC.±
 AREA IN EXIST. R.O.W. = 0.540 AC.±
 NET R.O.W. REQUIRED = 0.184 AC.±
 REMAINDER = 164.717 AC.±

PARCEL 3UL0002

DOROTHY L. BRADBURY, TRUSTEE

TOTAL HOLDING = 228.615 AC.±
 TOTAL R.O.W. REQUIRED = 0.417 AC.±
 AREA IN EXIST. R.O.W. = 0.298 AC.±
 NET R.O.W. REQUIRED = 0.119 AC.±
 REMAINDER = 228.198 AC.±



SE COR. SEC. 4-25-9 P.O.C. PARCEL
 SW COR. SEC. 3-25-9 3UL0001 & 3UL0002
 FD. PK.
 MONUMENT REC. DOC. 233473

SET RRS
 MONUMENT REC. NO.
 NE COR. SEC. 4-25-9
 NW COR. SEC. 3-25-9
 NOTE: NW COR. SEC. 3 RE-ESTABLISHED
 FROM IDOT 1928 R.O.W. PLAT

I VINCENT D. BRANDOW, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED F.A.P. 798 (ILLINOIS ROUTE 115) WAS MADE BY RENWICK & ASSOCIATES, INC. 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. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DATE: 2-14-2007

Vincent D. Brandow
 ILLINOIS PROFESSIONAL LAND SURVEYOR
 NO. 2655

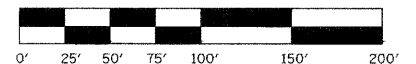


SURVEY BOOK NO. _____

11-30-08
 EXPIRATION DATE

NOTE: ALL BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (N.A.D. 83)

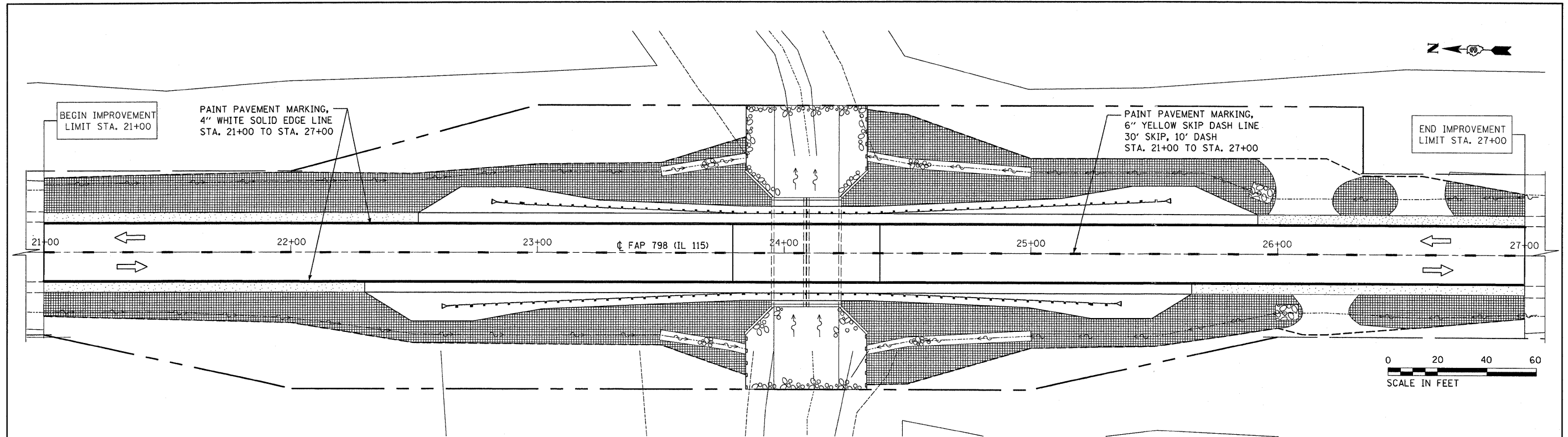
SCALE 1" = 50'



RIGHT OF WAY PLANS

ROUTE	F.A.P. 798 (ILL. ROUTE 115)
SECTION	108BR-1
PROJECT	
COUNTY	FORD
JOB NUMBER	R-93-004-07
STATION	317+00 TO 325+00
SHEET	1 OF 1 SCALE 1" = 50'

N.W. 1/4 OF SEC. 3, T.25N., R.9E. OF THE 3RD P.M.



PAVEMENT MARKING DETAILS AND LANDSCAPING PLAN

LEGEND:



RIPRAP, CLASS A4



PERMANENT SEEDING CLASS 3
WITH EROSION CONTROL BLANKET
(TEMPORARY EROSION CONTROL
SEEDING AS NEEDED)

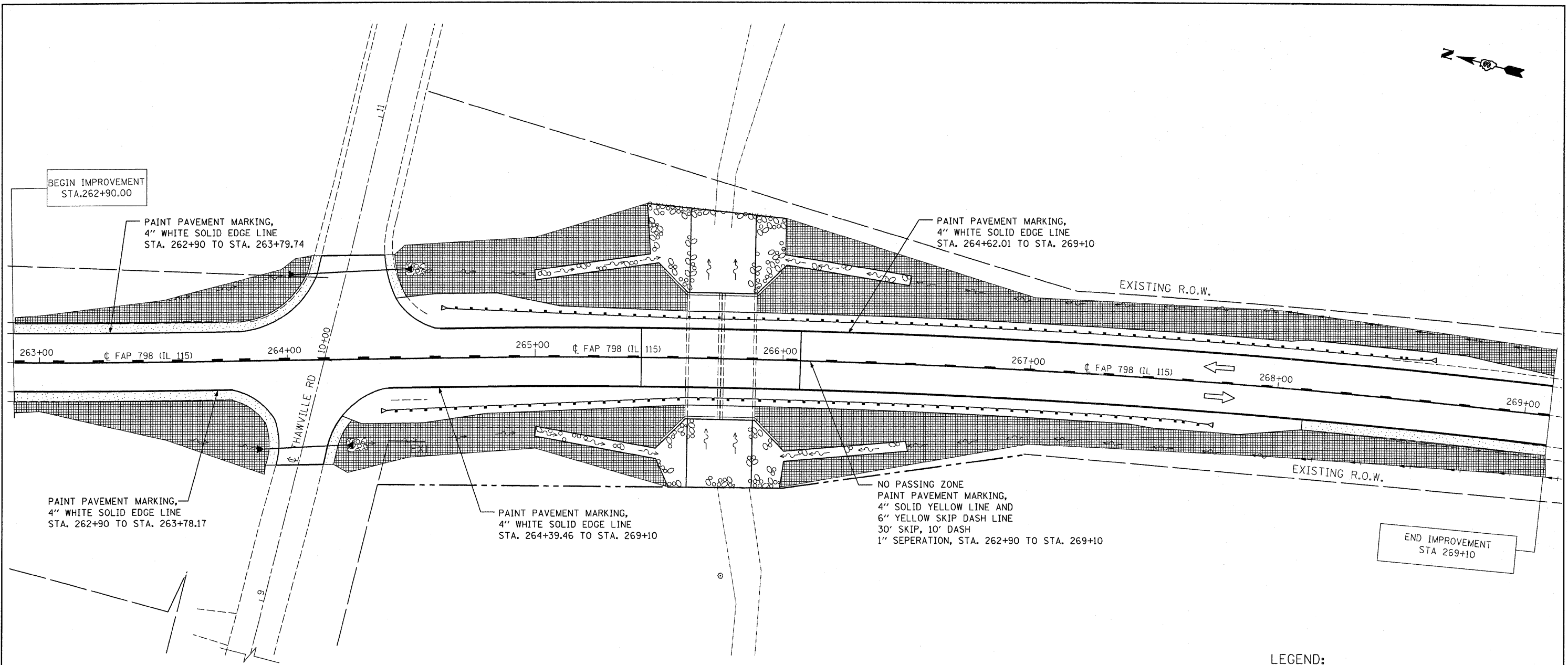
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	PLOT DATE = Aug 22, 2008 - 01:17:35 PM	DATE - AUGUST 2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND LANDSCAPING PLAN
SN 027-2014

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 21+00.00 TO STA. 27+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR, 108-BR, 108-BR-1	FORD	92	33
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BEGIN IMPROVEMENT
STA. 262+90.00

PAINT PAVEMENT MARKING,
4" WHITE SOLID EDGE LINE
STA. 262+90 TO STA. 263+79.74

PAINT PAVEMENT MARKING,
4" WHITE SOLID EDGE LINE
STA. 264+62.01 TO STA. 269+10

PAINT PAVEMENT MARKING,
4" WHITE SOLID EDGE LINE
STA. 262+90 TO STA. 263+78.17



PAINT PAVEMENT MARKING,
4" WHITE SOLID EDGE LINE
STA. 264+39.46 TO STA. 269+10

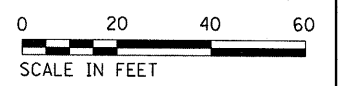
NO PASSING ZONE
PAINT PAVEMENT MARKING,
4" SOLID YELLOW LINE AND
6" YELLOW SKIP DASH LINE
30' SKIP, 10' DASH
1" SEPERATION, STA. 262+90 TO STA. 269+10

END IMPROVEMENT
STA 269+10

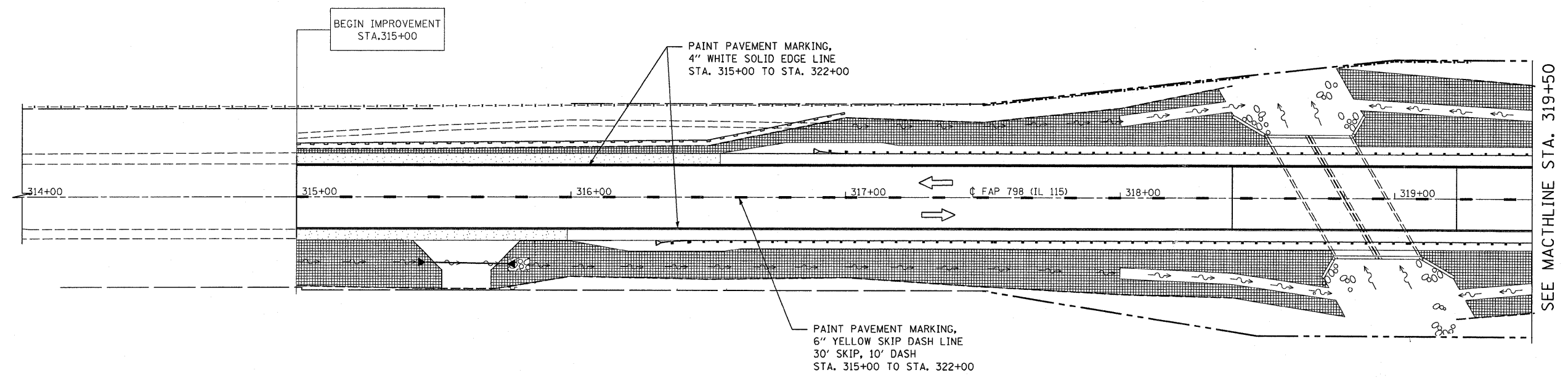
PAVEMENT MARKING DETAILS AND LANDSCAPING PLAN

LEGEND:

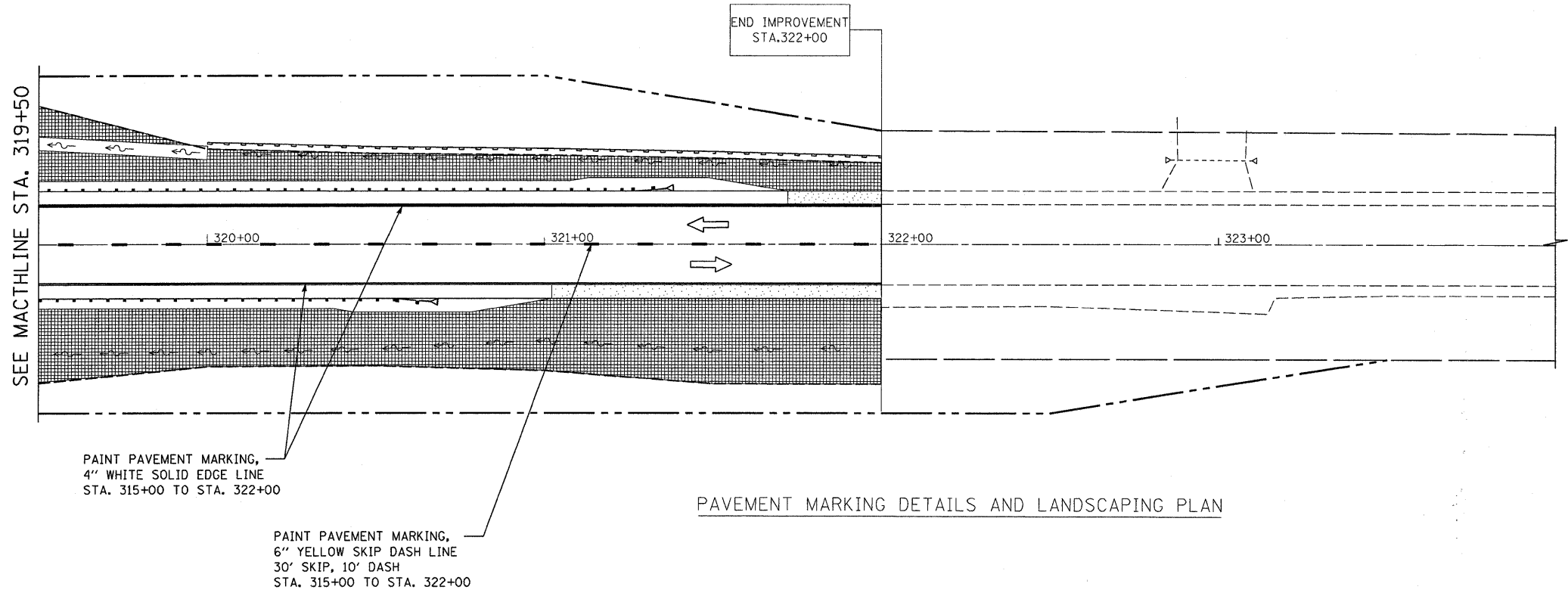
-  RIPRAP, CLASS A4
-  PERMANENT SEEDING CLASS 3
WITH EROSION CONTROL BLANKET
(TEMPORARY EROSION CONTROL
SEEDING AS NEEDED)



FILE NAME = c:\pwork\p\WIDOT\CARPENTERD\J\dms30072	USER NAME = carpenterd cpvmt-landscp-0030.dgn	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND LANDSCAPING PLAN SN 027-2015			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.00' / IN.	DRAWN - RM/FZ/DK/NS	REVISED -		SCALE: 1"=20'	SHEET NO.	OF	SHEETS	STA. 264+56.69	TO STA. 268+45	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	PLOT DATE = Aug 22, 2008 - 01:16:30 PM	CHECKED - AS	REVISED -									
		DATE - AUGUST 2008	REVISED -									



SEE MACTHLINE STA. 319+50

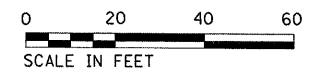


SEE MACTHLINE STA. 319+50

LEGEND:

- RIPRAP, CLASS A4
- PERMANENT SEEDING CLASS 3 WITH EROSION CONTROL BLANKET (TEMPORARY EROSION CONTROL SEEDING AS NEEDED)

PAVEMENT MARKING DETAILS AND LANDSCAPING PLAN



FILE NAME = e:\pwork\pwidot\carpenterj\dms30072	USER NAME = carpenterj	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND LANDSCAPING PLAN SN 027-2016	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - RM/FZ/DK/NS	REVISED -			798	107-BR, 108-BR, 108-BR-1	FORD	92	35	
		CHECKED - AS	REVISED -			CONTRACT NO. 66698					
		DATE - AUGUST 2008	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE: 1" = 20'		SHEET NO. OF SHEETS		STA. 315+00 TO STA. 322+00			

Bench Mark No. 112:
Chiseled square top west side of headwall, Elev. 671.771
Existing Structure:

The existing structure number 027-0039, built in 1927 as SBI Route 115, Section 107BR, Ford County at station 24+09.00 is a one span reinforced concrete slab bridge, with closed abutments supported on untreated timber piles. The existing bridge is 26'-0" long back to back of abutments & 36'-2" wide out to out of slab. The existing structure to be removed and replaced by 2-12' wide x 10' deep Pre-Cast Concrete Box Culverts. Traffic to be maintained utilizing detour.
No Salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

- S1 General Plan and Elevation
- S2 Wingwall Sections and Details
- S3 Headwall Sections and Details
- S4 Soil Boring Logs

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S1
F.A.P. 798	*	FORD	92	36	S4 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-			

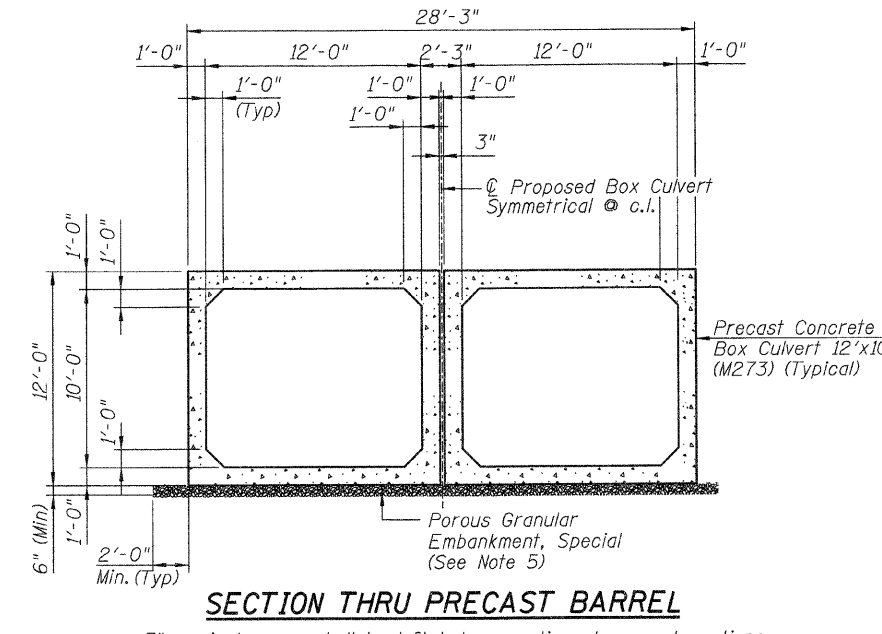
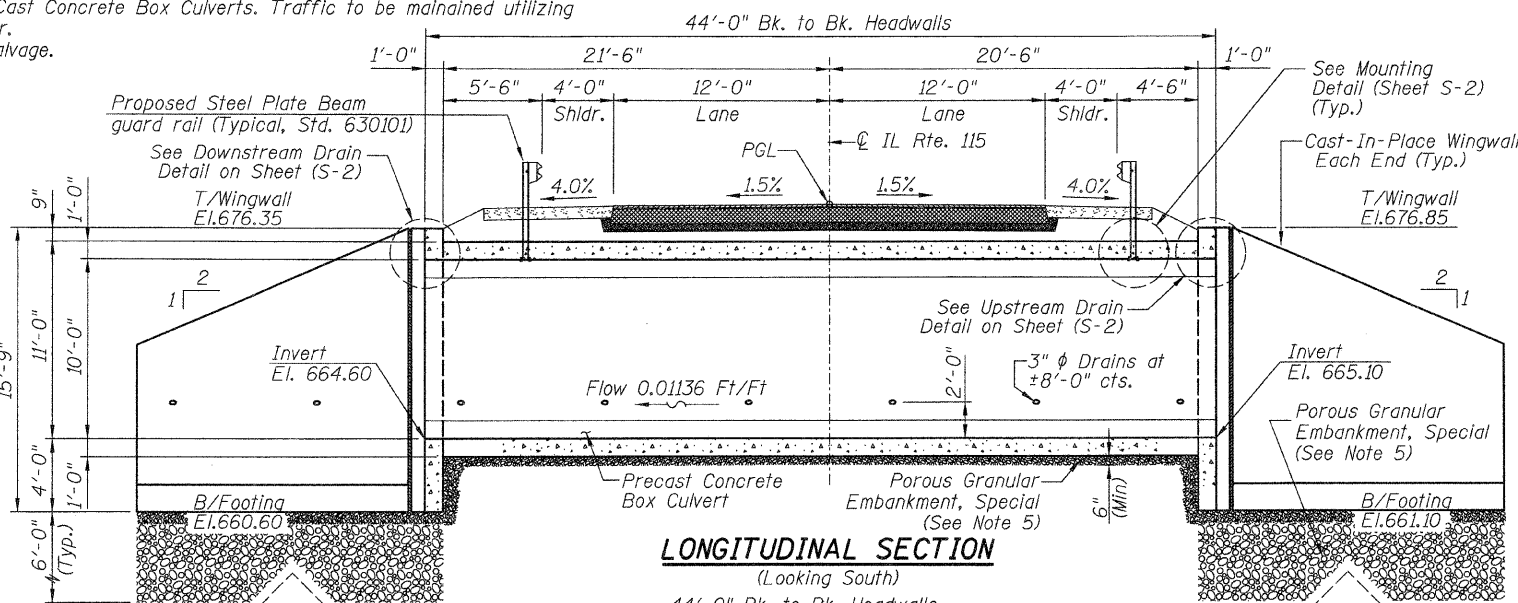
* 107-BR,108-BR,108-BR-1 Contract # 66698

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	512.0
Porous Granular Embankment, Special	Cu. Yd.	227.0
Removal of Existing Structures No. 3	Each	1
Structure Excavation	Cu. Yd.	1,348.0
Reinforcement Bars	Pound	6,470.0
Reinforcement Bars, (Epoxy Coated)	Pound	1,080.0
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	66.0
Precast Concrete Box Culvert 12'x10' (M273)	Foot	84.0

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706, Grade 60 (IL Modified). See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
4. Excavation behind existing abutment walls shall be done before removing the existing superstructure.
5. The material used to replace the unsuitable material removed below the bottom of the proposed precast concrete box culvert and cast-in-place concrete wingwalls shall be clean crushed material CA-1 on the bottom 5'-6" layer and CA-7 on the top 6" layer and shall be paid for as "Porous Granular Embankment, Special".



3" nominal space shall be left between adjacent precast sections. After the precast cells are in place and backfill has been placed to mid height of the precast concrete box section on each side, the space between the cells shall be filled with class SI concrete. Cast included with pay item for "precast concrete box culvert 12'x10' (M273)".

HIGHWAY CLASSIFICATION

F.A.P. RTE. 798-IL RTE 115
Functional Class: Minor Arterial (Non-Urban)
ADT: 750 (2005); ADT 1000 (2025)
ADTT: 175 (2005); 230 (2025)
DHW: 75
Design Speed: 55 Mph
Posted Speed: 55 Mph

LOADING HS20-44

Allow 50 #/sq. ft. for Future Wearing Surface

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

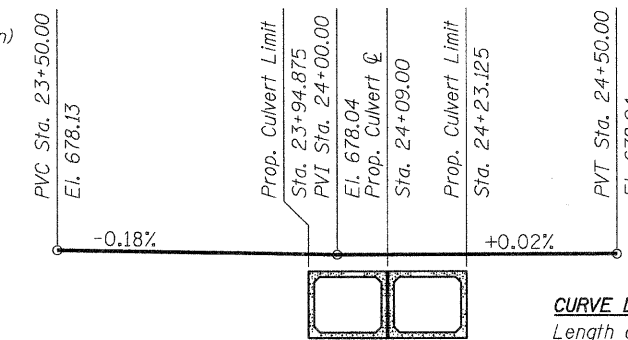
Field Units
Cast-In-Place Reinforced Concrete
f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)
Precast Concrete Box Culvert, Design as per AASHTO M 273 (ASTM C850).
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)

SEISMIC DATA

Seismic Performance Category (S.P.C.)=A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1211	202	222	674.33	0.6	0.2	674.97	674.52
Base	50	2001	229	240	676.62	1.4	1.0	677.98	677.63
Overtopping (Exist.)	100	2358	229	240	677.30	2.2	0.9	679.51	678.15
Overtopping (Prop.)	21	1583	229	240	675.51	2.4	0.5	677.91	675.99
Max. Calc.	59	2110	229	240	676.85	1.9	1.1	678.70	677.91
	500	3233	-	-	677.95	-	-	-	-

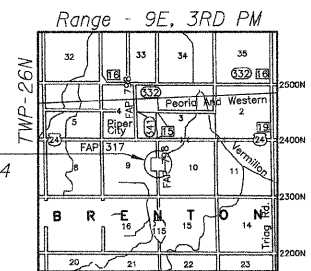


CURVE DATA:
Length of Curve = 100.00 Ft.
PVI Sta 24+00.00
El. 678.04'

PROFILE GRADE
(Along IL. Route 115)

STATION 24+09.00
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 798 SEC. 107BR
LOADING HS20-44
STR. NO. 027-2014

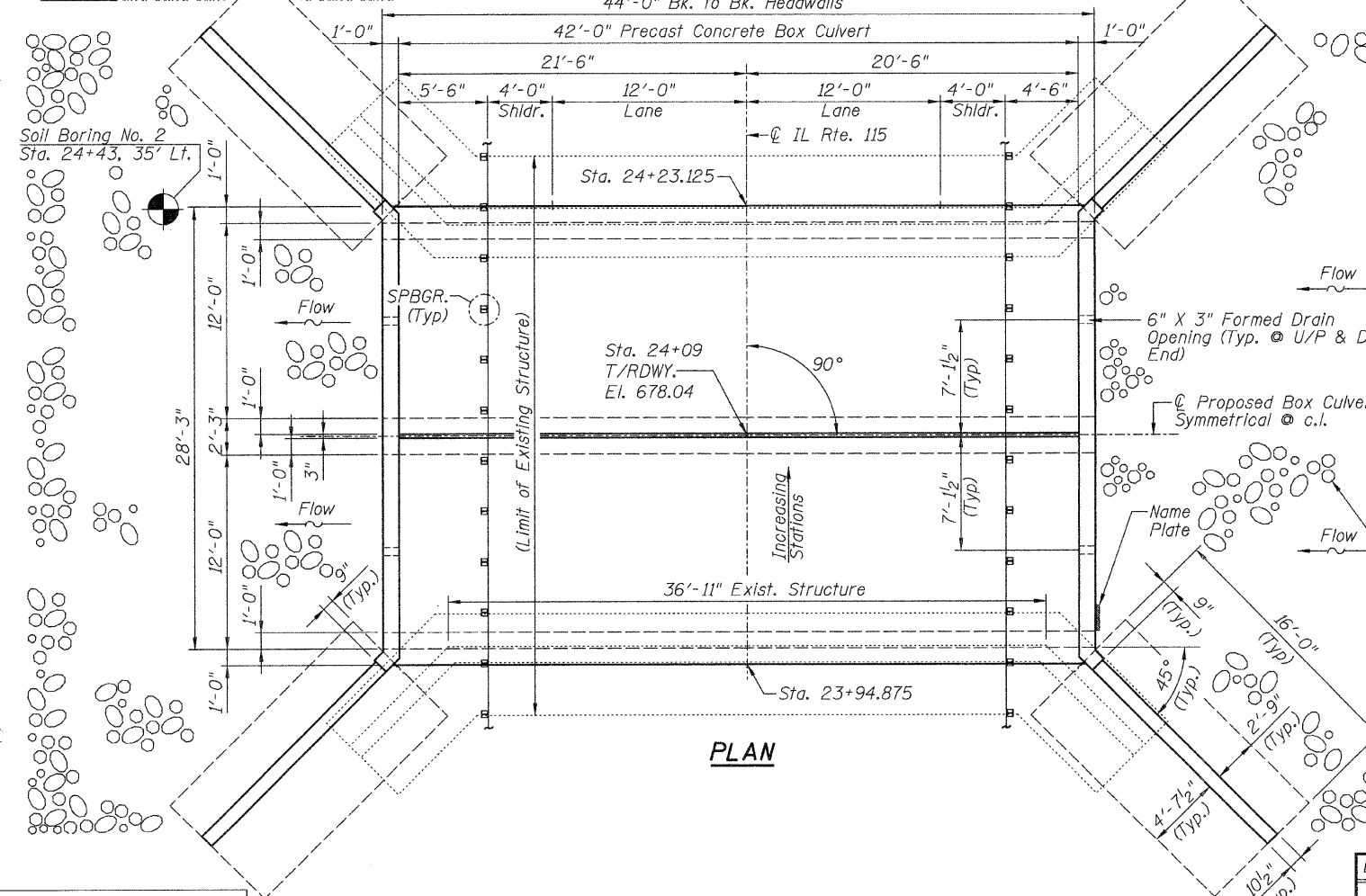
NAME PLATE
See Std. 515001



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 107-BR
FORD COUNTY
STATION 24+09.00
EXISTING STRUCTURE NO. 027-0039
PROPOSED STRUCTURE NO. 027-2014

Scale: None August 2008



DESIGNED	GBC/GMK
CHECKED	GBC/SMK/GMK
DRAWN	RR
CHECKED	SMK

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

Indicates Boring Location

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

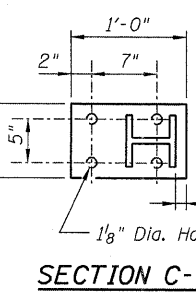
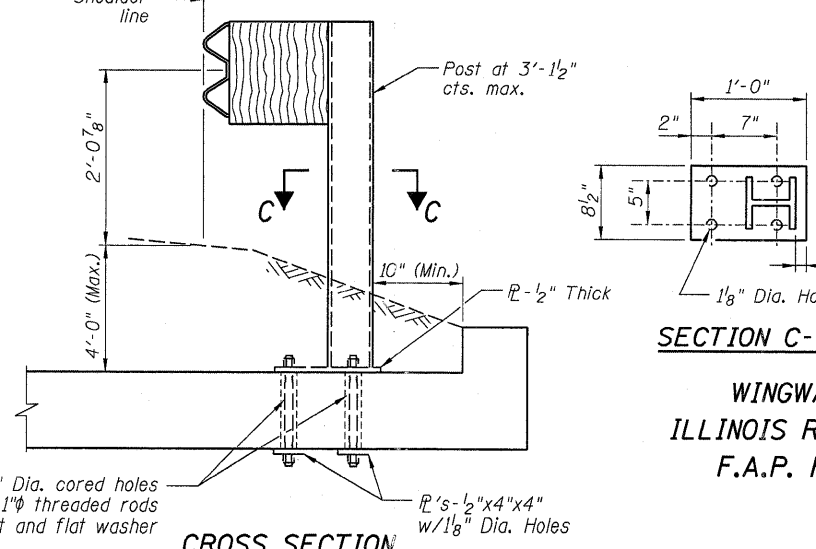
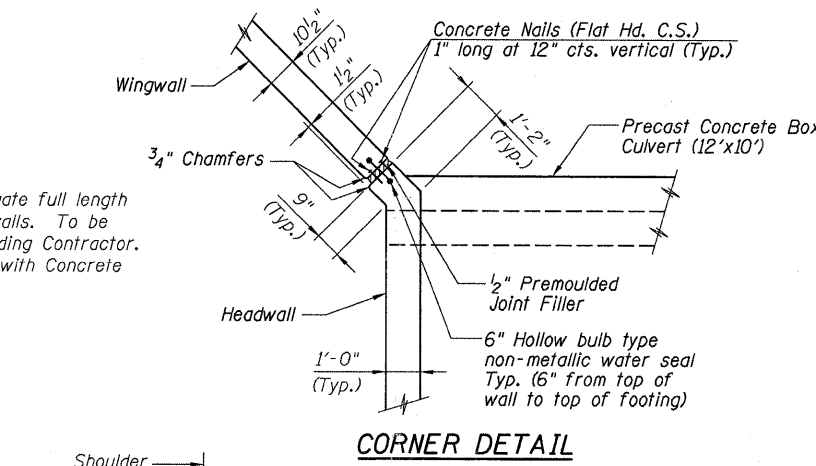
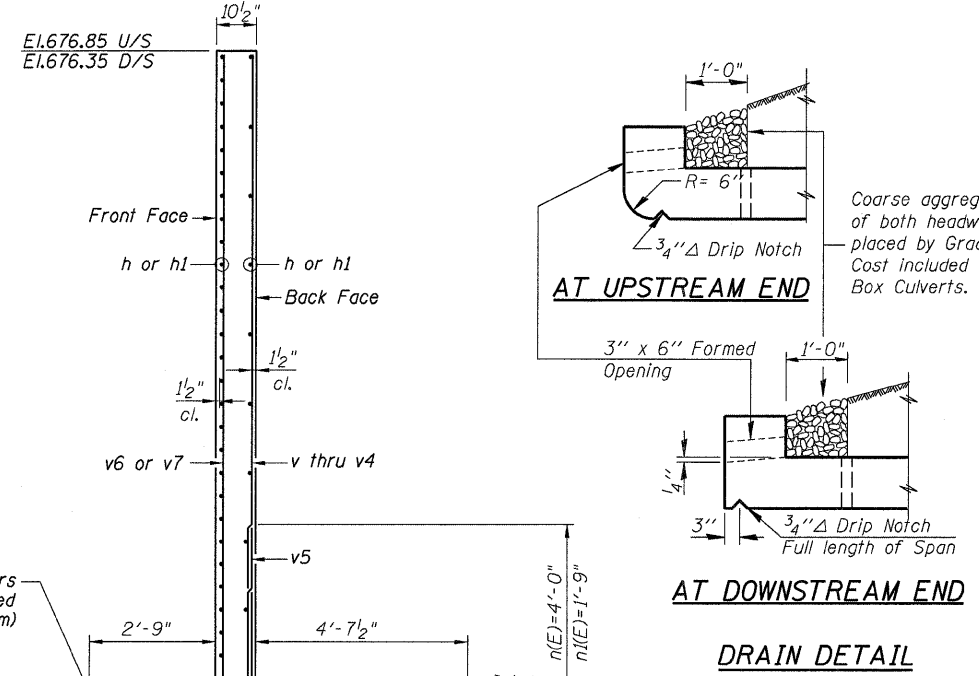
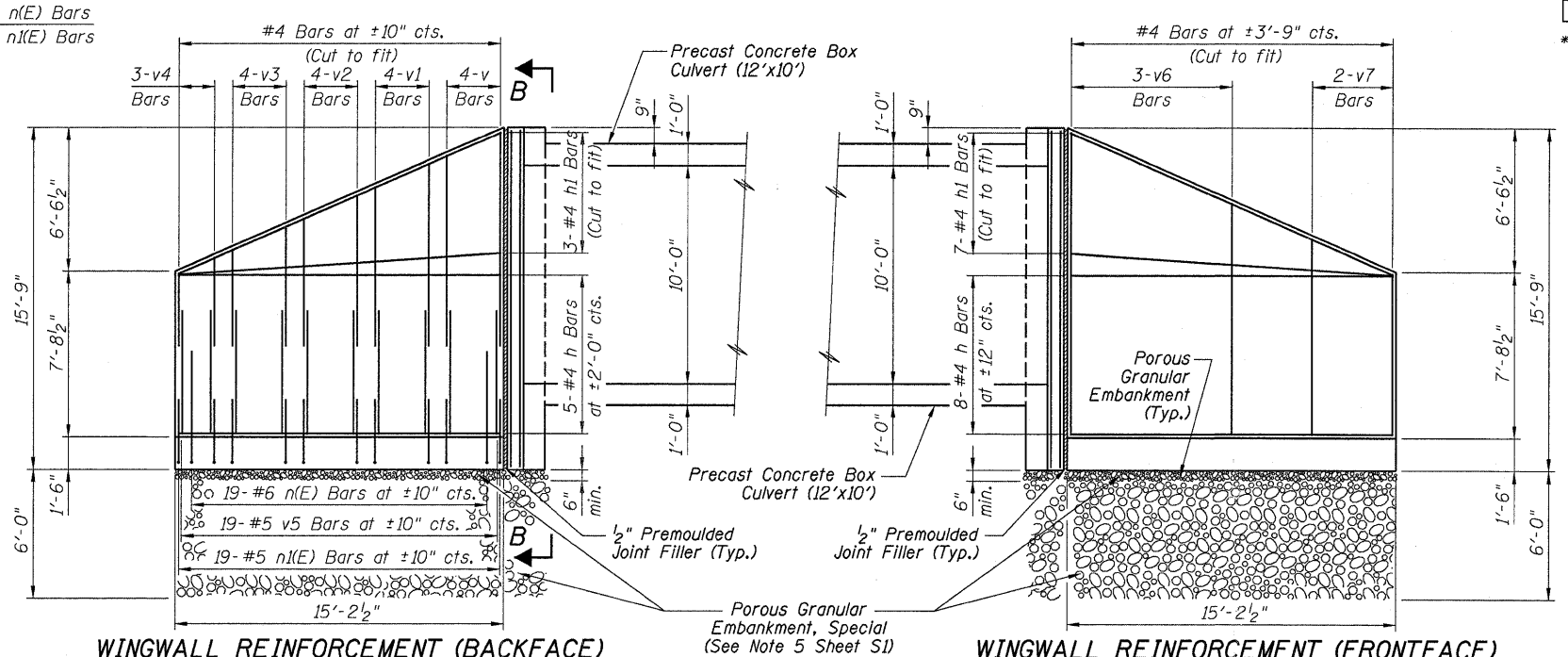
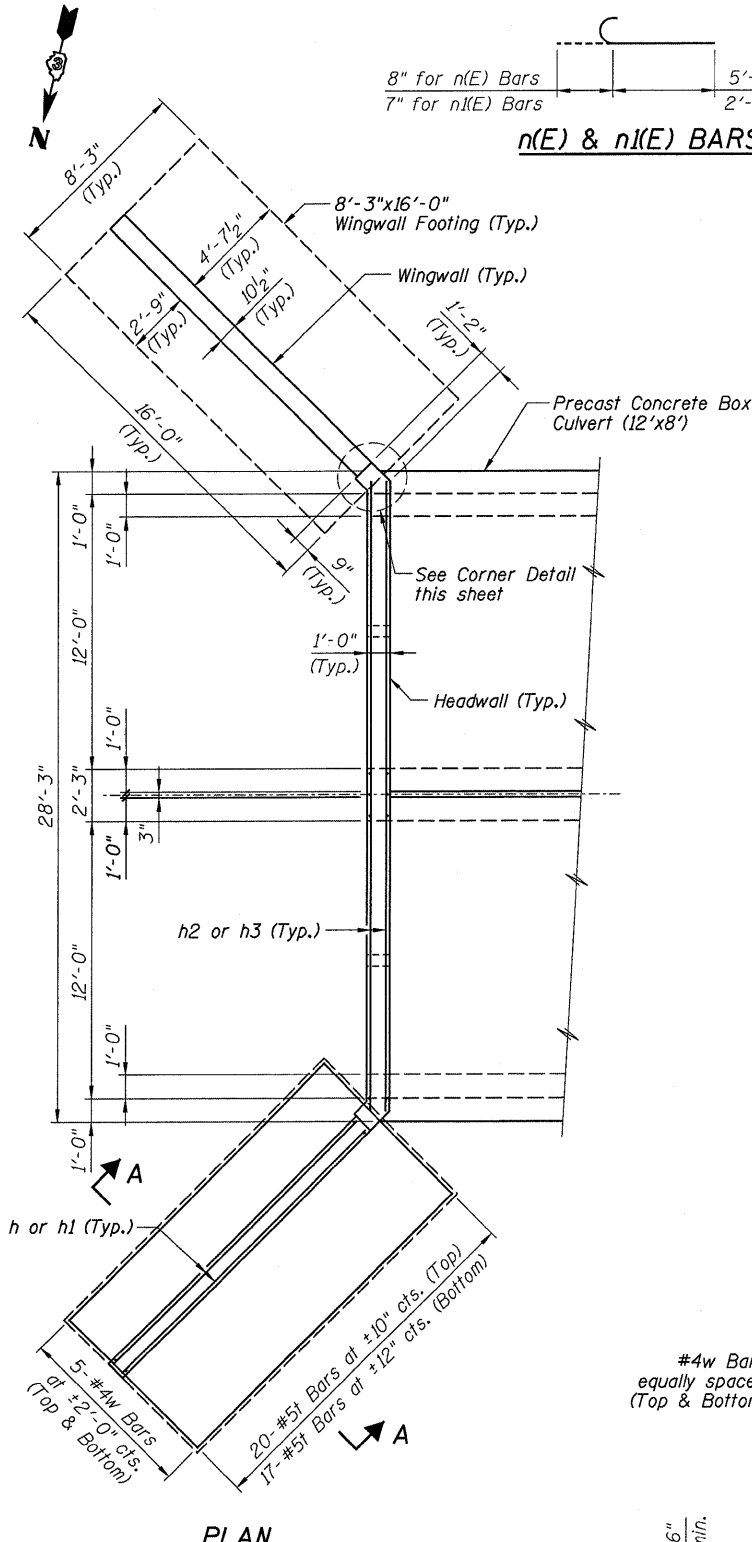
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S2
F.A.P. 798	*	FORD	92	37	S4 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

* 107-BR, 108-BR, 108-BR-1 Contract # 66698

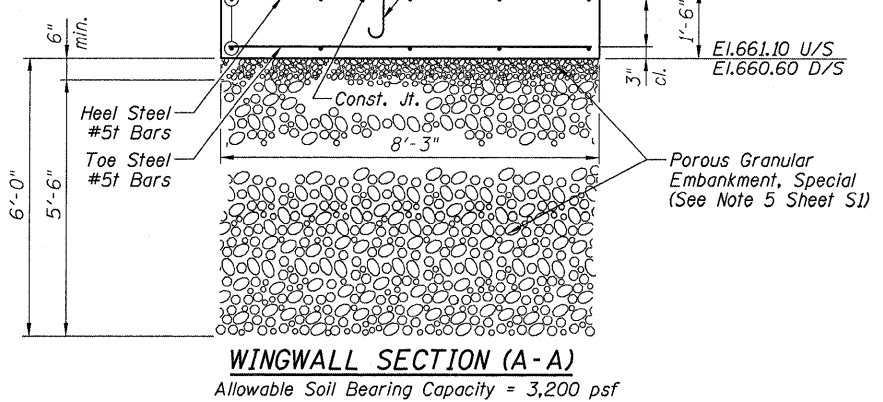
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d1	16	#4	5'-8"	
d2	16	#4	5'-0"	
h	56	#4	15'-0"	
h1	40	#4	16'-4"	
h2	8	#8	27'-5"	
h3	12	#7	27'-5"	
h4	12	#5	27'-5"	
n(E)	76	#6	5'-10"	
n(E)	76	#5	3'-6"	
n2(E)	28	#4	6'-0"	
s	56	#4	5'-3"	
s1	32	#4	3'-3"	
s2	16	#4	6'-3"	
t	148	#5	8'-0"	
u	112	#4	5'-9"	
v	16	#4	9'-10"	
v1	16	#4	8'-5"	
v2	16	#4	7'-0"	
v3	16	#4	5'-7"	
v4	12	#4	4'-2"	
v5	76	#5	5'-9"	
v6	12	#4	13'-11"	
v7	8	#4	9'-1"	
v8	12	#4	11'-6"	
v9	8	#4	12'-2"	
v10	8	#4	13'-2"	
w	40	#4	15'-9"	
Concrete Box Culvert			Cu. Yd.	66
Reinforcement Bars, Epoxy Coated			Pound	1,080
Reinforcement Bars			Pound	6,470

Notes:
1. Quantities shown are for four wingwalls and two headwalls.



DESIGNED	GBC/GMK	EXAMINED	
CHECKED	GBC/SMK/GMK	PASSED	
DRAWN	RR	ENGINEER OF BRIDGE DESIGN	
CHECKED	SMK	ENGINEER OF BRIDGES AND STRUCTURES	

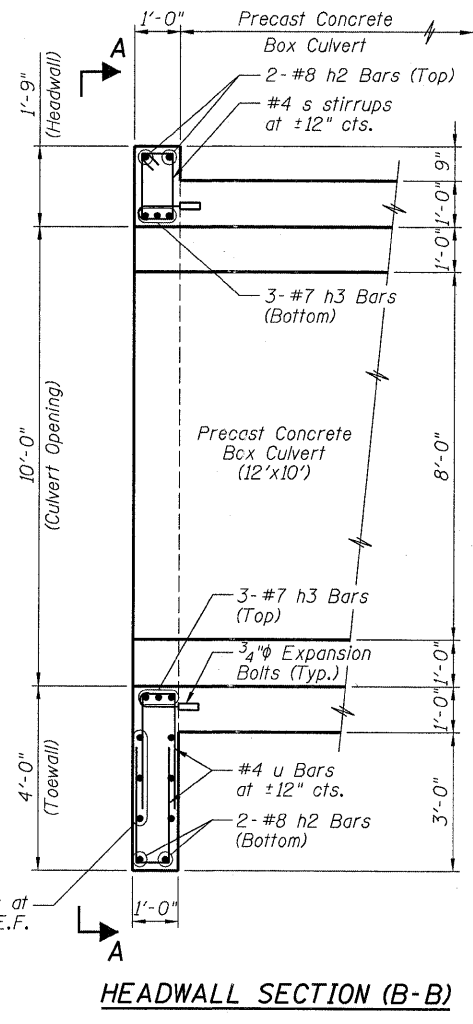
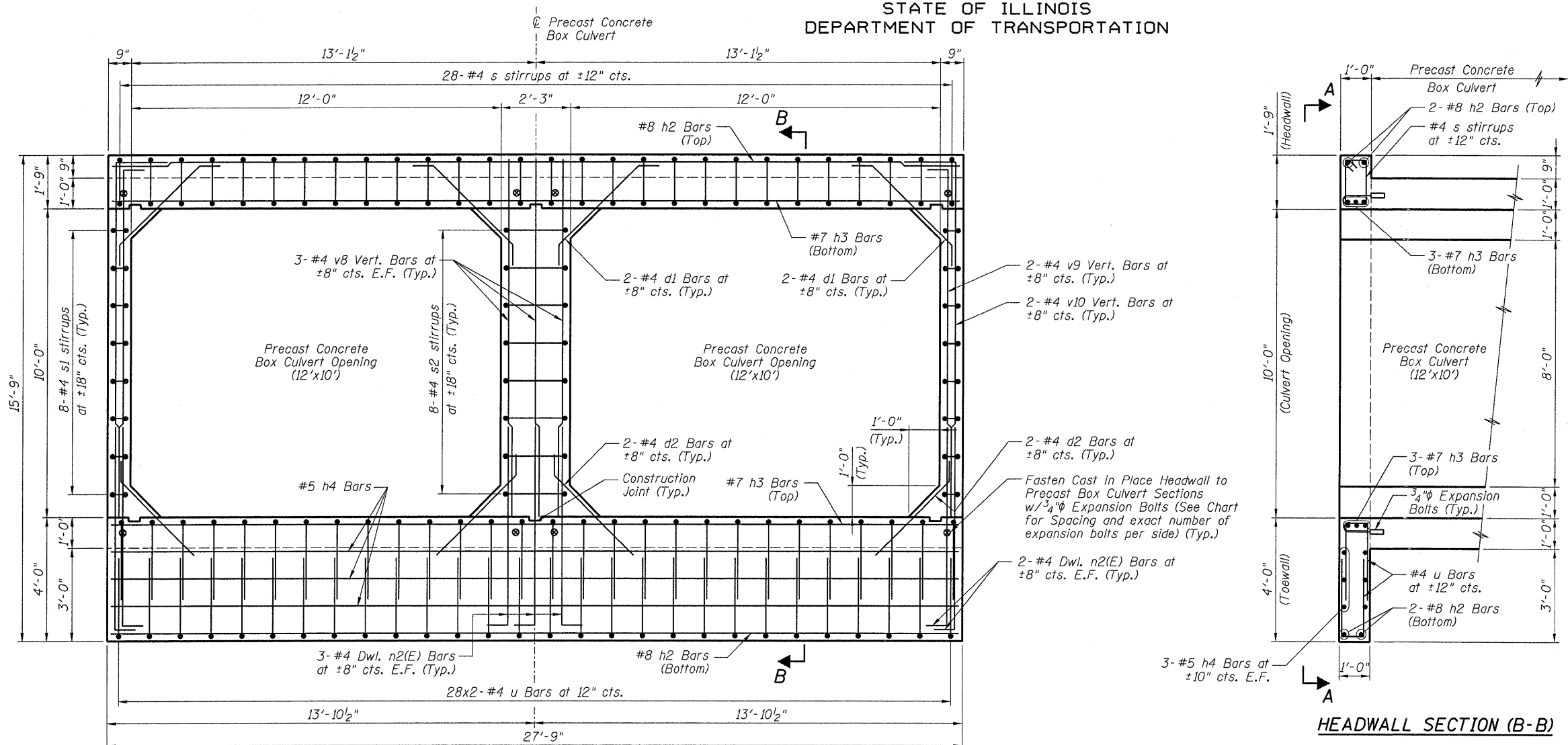


WINGWALL SECTIONS AND DETAILS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 107-BR
FORD COUNTY
STATION 24+09.00
EXISTING STRUCTURE NO. 027-0039
PROPOSED STRUCTURE NO. 027-2014
Scale: None August 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.	SHEET NO. S3 S4 SHEETS
F.A.P. 798	*	FORD	92	38	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

* 107-BR,108-BR,108-BR-1 Contract # 66698

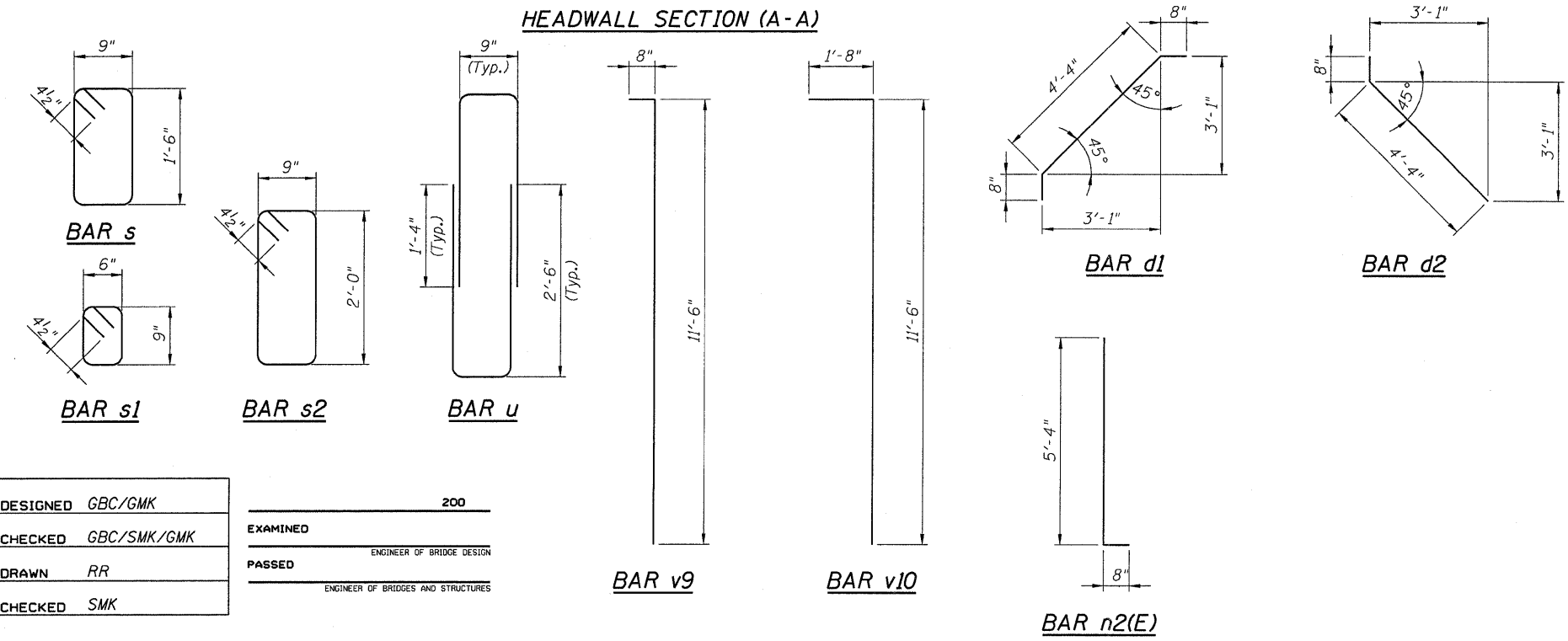


EXPANSION BOLT TABLE

Clear Span or Clear Height	No. of 3/4" Expansion bolts Req'd per side	
	No. *	Spacing
10.0	7	18"
12.0	8	19"

- Notes:
1. Use minimum of (1) one expansion bolt at each corner.
 2. Total number of expansion bolts required = 120.
 3. Expansion bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete. Precast concrete manufacturer shall provide holes in precast concrete box culvert for 3/4" expansion bolt inserts at specified locations.
 4. Cost of 3/4" expansion bolts included with pay item for "Precast Concrete Box Culvert 12'x10" (M273).

HEADWALL SECTION (A-A)



DESIGNED	GBC/GMK	200
CHECKED	GBC/SMK/GMK	
DRAWN	RR	
CHECKED	SMK	
EXAMINED	ENGINEER OF BRIDGE DESIGN	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES	

HEADWALL SECTIONS AND DETAILS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 107-BR
FORD COUNTY
STATION 24+09.00
EXISTING STRUCTURE NO. 027-0039
PROPOSED STRUCTURE NO. 027-2014
Scale: None August 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 798	SECTION #	COUNTY FORD	SHEET NO. 92	SHEET NO. 39
S4 SHEETS				
FED. ROAD DIST. NO. 7				
ILLINOIS FED. AID PROJECT-				

* 107-BR, 108-BR, 108-BR-1 Contract # 66698



SOIL BORING LOG

Page 1 of 1

Date 10/8/05

ROUTE FAP 798 (IL 115) DESCRIPTION IL 115 over Drainage Ditch LOGGED BY Larry Myers

SECTION (107) BR LOCATION NE 1/4, SEC. 9, TWP. 26N, RNG. 9E, 3rd PM

COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME automatic

STRUCT. NO.	Station	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	Failure Mode	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	Failure Mode
027-0039	024+09					Surface Water Elev. 686.67 ft Stream Bed Elev. _____ ft				
#1: NW quad	23+75					Groundwater Elev.: First Encounter _____ R Upon Completion 664.9 R V After _____ Hrs.				
	27.00ft Rt									
	674.92 ft					Augered, brown to black, Silty Clay fill				
		2								
	672.92					Stiff, brown to gray, Silty Clay				
		3	2.0	25.2						
		3	P							
		1								
		4								
	668.42					Hard, gray, Silt to Loam Till				
		2	1.0	25.0						
		2	P							
	668.42					Stiff, gray, Silty Clay Loam Till				
		3								
		4	1.3	14.1						
		4	B							
		3								
		3	1.5	14.3						
		3	B							
		2								
		4	1.9	14.5						
		5	B							
	660.42					Stiff, gray, Silt and fine, Sand				
		3								
		3	1.5	21.0						
		1	P							
	658.42					Loose, gray, loamy, fine, Sand to coarse, Gravel				
		3								
		4		8.2						
		5								
	655.92									
		5								

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



SOIL BORING LOG

Page 1 of 1

Date 10/11/05

ROUTE FAP 798 (IL 115) DESCRIPTION IL 115 over Drainage Ditch LOGGED BY Larry Myers

SECTION (107) BR LOCATION NE 1/4, SEC. 9, TWP. 26N, RNG. 9E, 3rd PM

COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME automatic

STRUCT. NO.	Station	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	Failure Mode	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	Failure Mode
027-0039	024+09					Surface Water Elev. 686.67 ft Stream Bed Elev. _____ ft				
#2: SE quad	24+43					Groundwater Elev.: First Encounter _____ R Upon Completion 664.6 R V After _____ Hrs.				
	35.00ft Lt									
	675.61 ft					Augered, black, Silty Clay fill				
		3								
	673.11					Hard, black, Silty Clay fill				
		3	>4.5	8.0						
		3	P							
	671.11					Very stiff, brown to gray, Silty clay Loam Till				
		3								
		3	3.5	18.3						
		4	P							
	668.61					Stiff, brown to gray, Silty Clay Loam Till				
		3								
		6	1.1	16.6						
		7	S							
	665.61					Very stiff, gray, Silty Clay Loam Till				
		3								
		6	2.2	17.2						
		7	B							
		5								
		7	3.5	13.0						
		8	B							
	661.11					Stiff, brown, Silt with minor Clay				
		2								
		2	1.0	19.2						
		2	P							
	658.11					Loose, brown, fine, Sand to coarse, Gravel				
		1								
		2		20.4						
		5								
	656.11									
		5								

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

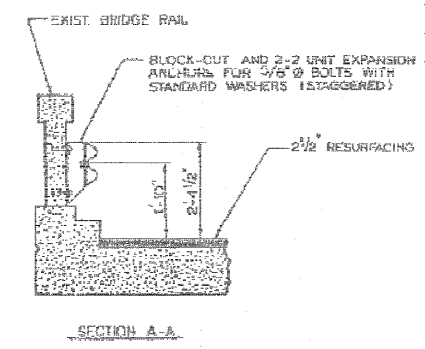
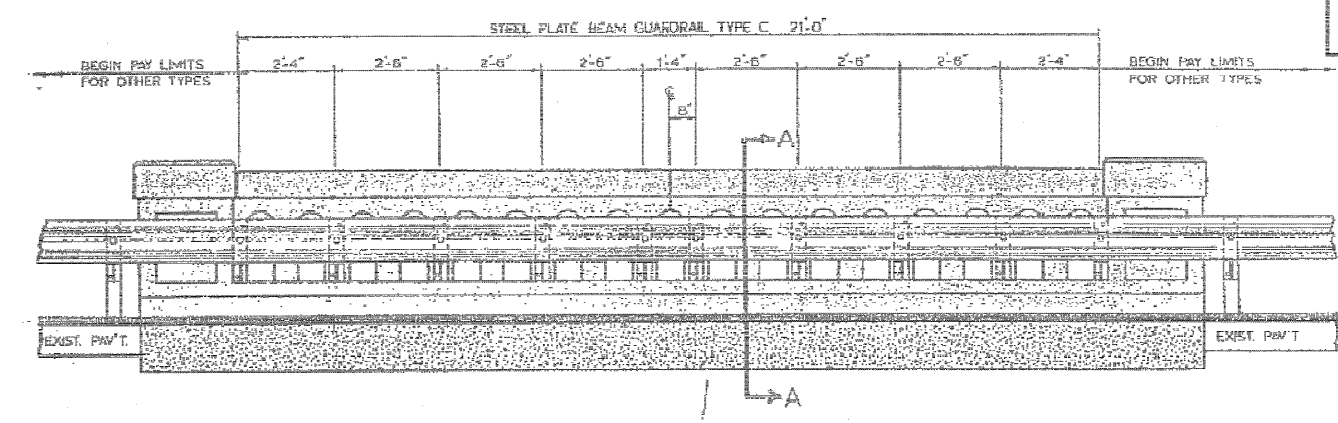
DESIGNED GBC/GMK	200
CHECKED GBC/SMK/GMK	EXAMINED
DRAWN RR	ENGINEER OF BRIDGE DESIGN
CHECKED SMK	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

SOIL BORING LOGS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 107-BR
FORD COUNTY
STATION 24+09.00
EXISTING STRUCTURE NO. 027-0039
PROPOSED STRUCTURE NO. 027-2014
Scale: None August 2008

**EXISTING PLANS
FOR INFORMATION ONLY**

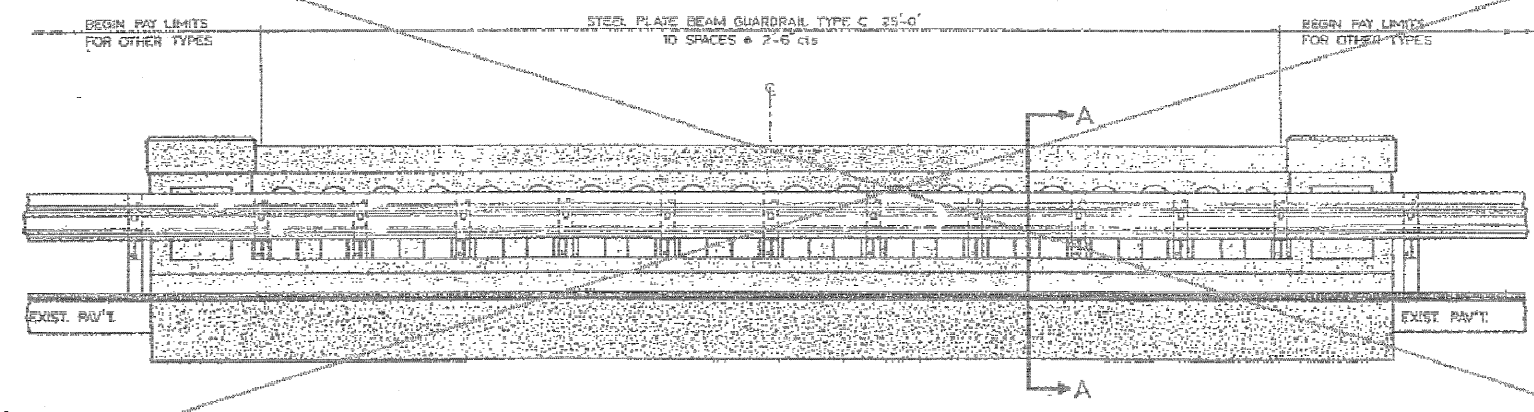
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
EA 798	4	FORD	32	32
ILLINOIS PROJECT				
* (K7, 108) W.G.R.S				

STR. NO. 027-0030
STR. NO. 027-0031
STR. NO. 027-0038



GUARDRAIL ATTACHED TO EXISTING BRIDGE RAIL

STRUCTURE No. 027-0030
027-0030
027-0031
027-0032



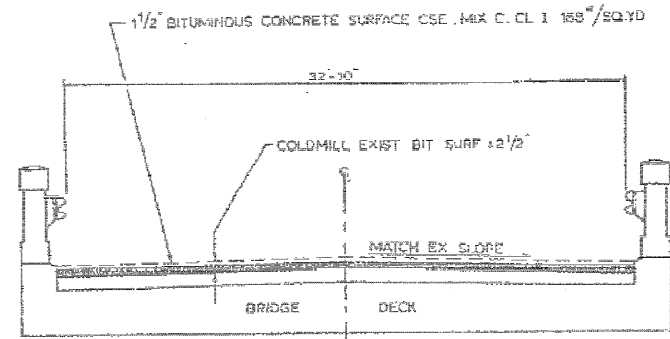
GUARDRAIL ATTACHED TO EXISTING BRIDGE RAIL

STRUCTURE No. 027-0040

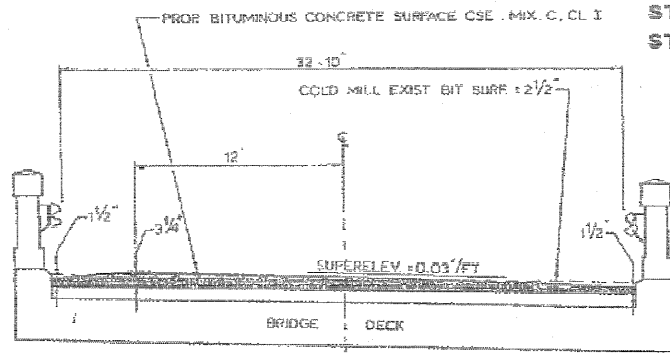
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	PLOT SCALE = 1/8" = 1'-0"	CHECKED - GC/GMK	REVISED - ---			CONTRACT NO. 66698					
	PLOT DATE = Aug 22, 2008 - 11:51:24 AM	DATE - August 2008	REVISED - ---			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FA 798	#	FORD	92	3
E.H.W.A. PER. 4 ILLINOIS PROJECT #107.108) W&RS				

EXISTING PLANS FOR INFORMATION ONLY

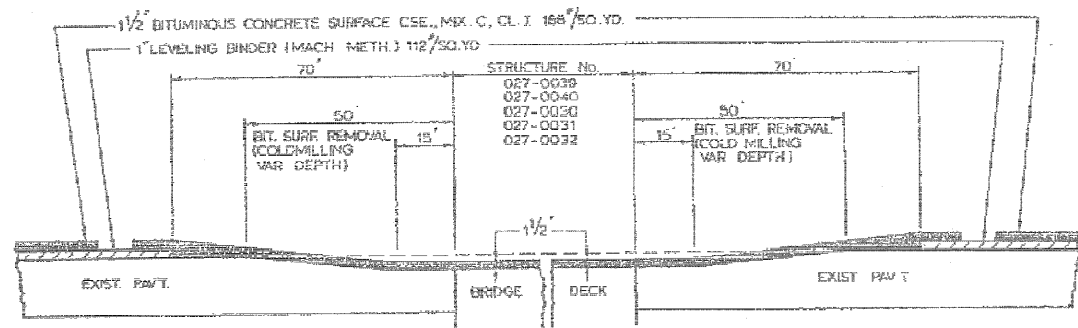


TYPICAL SECTION
STRUCTURE Nos. 027-0030
027-0040
027-0031
027-0032

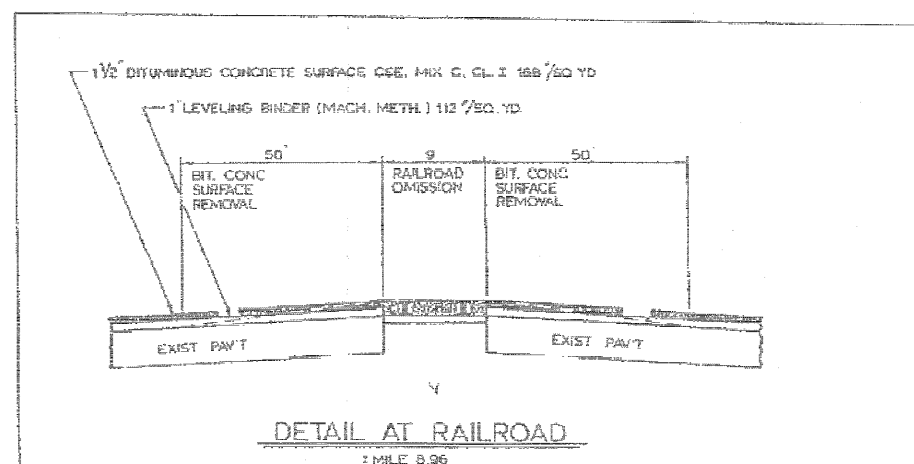


TYPICAL SECTION
STRUCTURE No. 027-0030

STR. NO. 027-0030
STR. NO. 027-0031
STR. NO. 027-0039



TYPICAL TAPER FOR STRUCTURES



DETAIL AT RAILROAD
1/2 MILE 8.96

FILE NAME =	USER NAME = carpenterd	DESIGNED - CC/GMK	REVISED -
c:\pwork\pwork\carpenterd\dms30072\	exist_struct.1.2.dgn	DRAWN - RR	REVISED -
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	PLOT DATE = Aug 22, 2008 - 11:49:28 AM	DATE - August 2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS - STRUCTURAL			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR,108-BR,108-BR-1	FORD	92	41
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

B.M. #3 34W in F.F. Rt. Sta. 2149 Elev. 103.02
 Existing structure: I-Beam bridge 75' rdy
 22'-span. To be removed by bridge contractor.

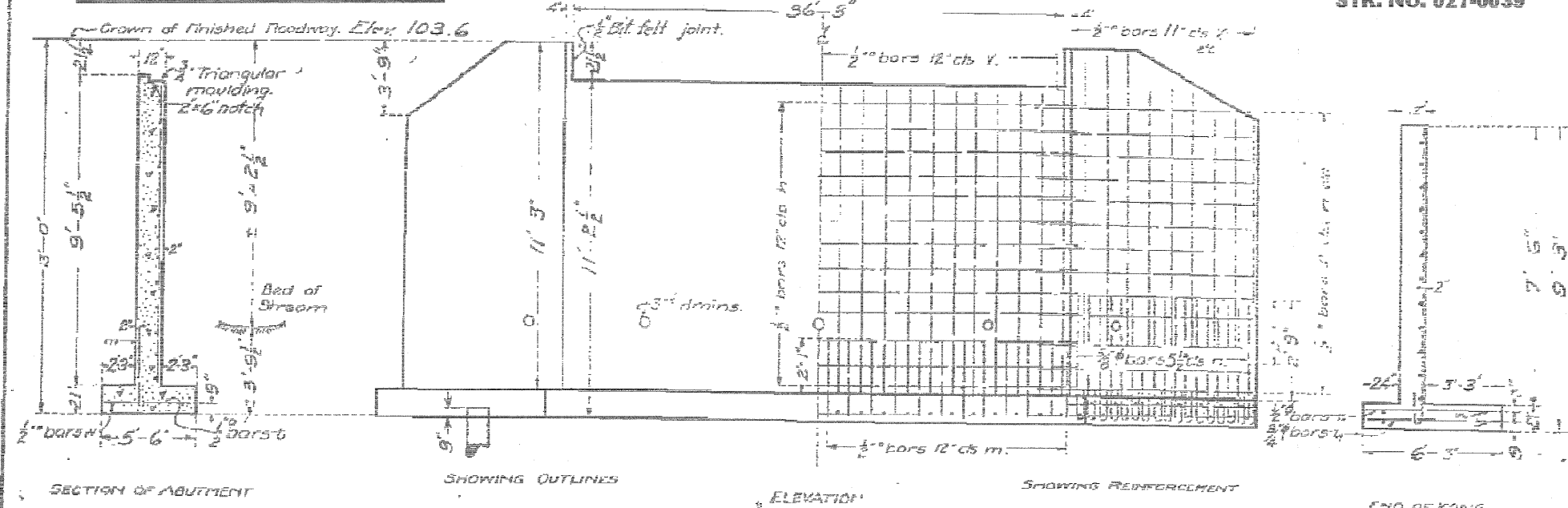
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDING
 DIVISION OF HIGHWAYS

PROJECT NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.	Sheet No. 2 of 2 Sheets.
115	Ford	107B	25	25	

**EXISTING PLANS
 FOR INFORMATION ONLY**

**R.C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 13 FEET**

STR. NO. 027-0039



SECTION OF ABUTMENT

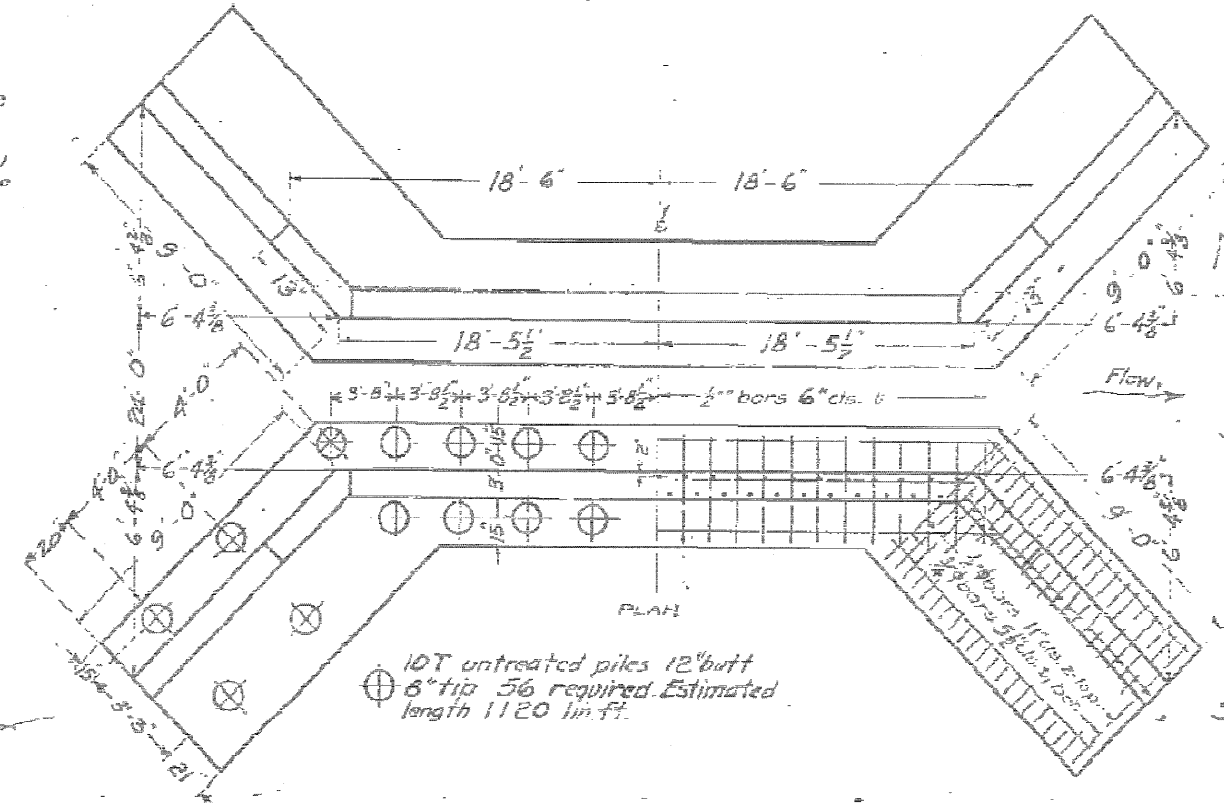
SHOWING OUTLINES

ELEVATION

SHOWING REINFORCEMENT

END OF WING

Close X concrete shall be used throughout.
 All reinforcing steel shall be securely wired in place before concrete is poured.



PLAN

BILL OF MATERIAL

20#	15	312	120.75
12#	74	27	9.0
8#	8	27	10.0
16#	16	27	8.6
4#	16	27	7.0
<hr/>			
-	40	27	12.0
12#	32	27	10.6
2#	8	27	6.6
<hr/>			
-	60	27	5.3
12#	154	27	5.8
2#	88	27	6.0
2#	88	27	6.0
W	8	27	20.0
M	16	27	10.0
M	74	27	3.0

Reinforcing Steel lbs. 4550
 Concrete Cu. Yds. X - 78.0

COMPUTED	-	HPD/lll
CHECKED	-	ED/Laurin
DRAWN	-	74/Zobler
CHECKED	-	HPD
ASSEMBLED	-	HPD
CHECKED	-	HPD

DESIGNED: Dec 6, 2008
 DRAWN: [Signature]
 CHECKED: [Signature]
 APPROVED: [Signature]
 CHIEF HIGHWAY ENGINEER

SBI ROUTE 115 SEC 107B
 FORD COUNTY
 STA 24+09

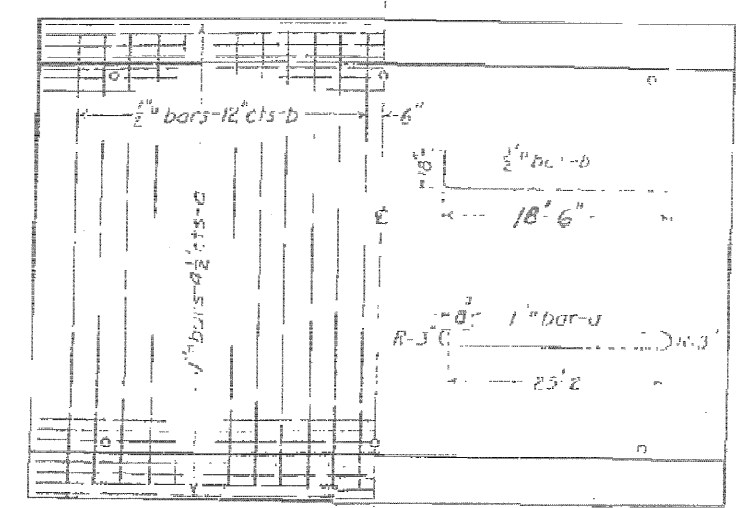
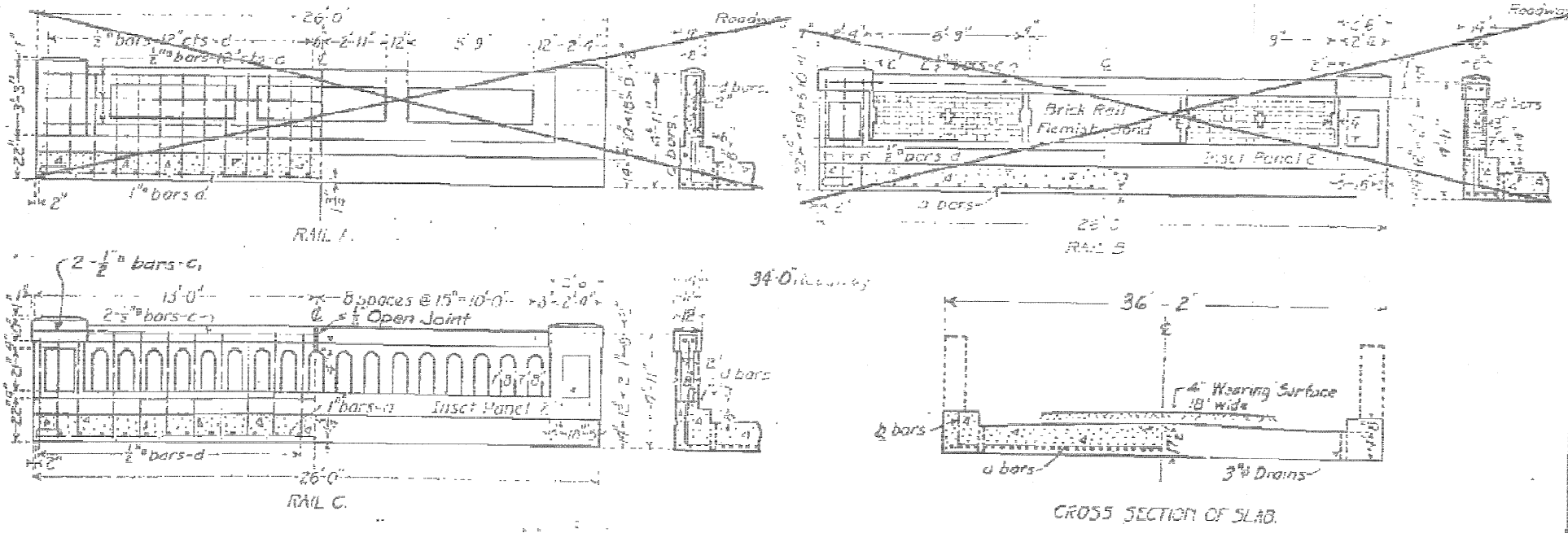
576

**EXISTING PLANS
FOR INFORMATION ONLY**

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

ROAD ISSUE ROUTE NO.	COUNTY	SEC	TOTAL SHEETS	SHEET NO.
115	Ford	107B	28	25

**REINFORCED CONCRETE SLAB
SPAN - TWENTY FOUR FEET
STR. NO. 027-0039**



BILL OF MATERIAL

	16 FT ROADWAY	18 FT ROADWAY	20 FT ROADWAY	24 FT ROADWAY	34 FT ROADWAY
RAIL A	Bars No. Size Length a 48 1" 28'-0" b 24 1/2" 20'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 5570 Concrete-Cu Yds 280	Bars No. Size Length a 53 1" 28'-0" b 24 1/2" 20'-0" c 6 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 5820 Concrete-Cu Yds 307	Bars No. Size Length a 58 1" 28'-0" b 24 1/2" 20'-0" c 6 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 6340 Concrete-Cu Yds 329	Bars No. Size Length a 169 1" 28'-0" b 84 1/2" 20'-0" c 4 1/2" 25'-6" d 112 1/2" 4'-6" Steel-Lbs 1470 Concrete-Cu Yds 378	Bars No. Size Length a 185 1" 28'-0" b 92 1/2" 20'-0" c 4 1/2" 25'-6" d 112 1/2" 4'-6" Steel-Lbs 2160 Concrete-Cu Yds 432
RAIL B	Bars No. Size Length a 48 1" 28'-0" b 24 1/2" 20'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 5570 Concrete-Cu Yds 280 Brick Rail-Cu Yds 2.0	Bars No. Size Length a 53 1" 28'-0" b 24 1/2" 20'-0" c 6 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 5820 Concrete-Cu Yds 307 Brick Rail-Cu Yds 2.0	Bars No. Size Length a 58 1" 28'-0" b 24 1/2" 20'-0" c 6 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 6340 Concrete-Cu Yds 329 Brick Rail-Cu Yds 2.0	Bars No. Size Length a 169 1" 28'-0" b 84 1/2" 20'-0" c 4 1/2" 25'-6" d 112 1/2" 4'-6" Steel-Lbs 1470 Concrete-Cu Yds 378 Brick Rail-Cu Yds 2.0	Bars No. Size Length a 185 1" 28'-0" b 92 1/2" 20'-0" c 4 1/2" 25'-6" d 112 1/2" 4'-6" Steel-Lbs 2160 Concrete-Cu Yds 432 Brick Rail-Cu Yds 2.0
RAIL C	Bars No. Size Length a 48 1" 28'-0" b 24 1/2" 20'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 5570 Concrete-Cu Yds 280	Bars No. Size Length a 53 1" 28'-0" b 24 1/2" 20'-0" c 6 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 5820 Concrete-Cu Yds 307	Bars No. Size Length a 58 1" 28'-0" b 24 1/2" 20'-0" c 6 1/2" 25'-6" d 12 1/2" 4'-6" Steel-Lbs 6340 Concrete-Cu Yds 329	Bars No. Size Length a 169 1" 28'-0" b 84 1/2" 20'-0" c 4 1/2" 25'-6" d 112 1/2" 4'-6" Steel-Lbs 1470 Concrete-Cu Yds 378	Bars No. Size Length a 185 1" 28'-0" b 92 1/2" 20'-0" c 4 1/2" 25'-6" d 112 1/2" 4'-6" Steel-Lbs 2160 Concrete-Cu Yds 432

Use class A Concrete throughout

USE RAIL C, 34 FT ROADWAY.

COMPUTED - *[Signature]*
CHECKED - *[Signature]*
DRAWN - *[Signature]*
CHECKED - *[Signature]*
APPROVED - *[Signature]*
DATE - August 2008

**SBI. ROUTE 115 SEC 107B
FORD COUNTY
STA 24+09**

Bench Mark No. 1:
Set rail road spike in power pole sta. 263+32.544,
150,470 ft. right, El. 729,220.

Existing Structure:
The existing structure number 027-0030, built in 1928 as SBI Route 115,
Section 108B, Ford County at station 265+74.96. The structure is a one
span reinforced concrete slab bridge. With closed abutments supported
on untreated timber piles. The existing bridge is 26'-0" long back to back
of abutments & 36'-2" wide out to out of slab. The existing structure to
be removed and replaced by 2-12' wide x 8' deep Pre-Cast Concrete Box
Culverts. Traffic to be maintained utilizing detour.
No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

- S1 General Plan and Elevation
- S2 Wingwall Sections and Details
- S3 Headwall Sections and Details
- S4 Soil Boring Logs

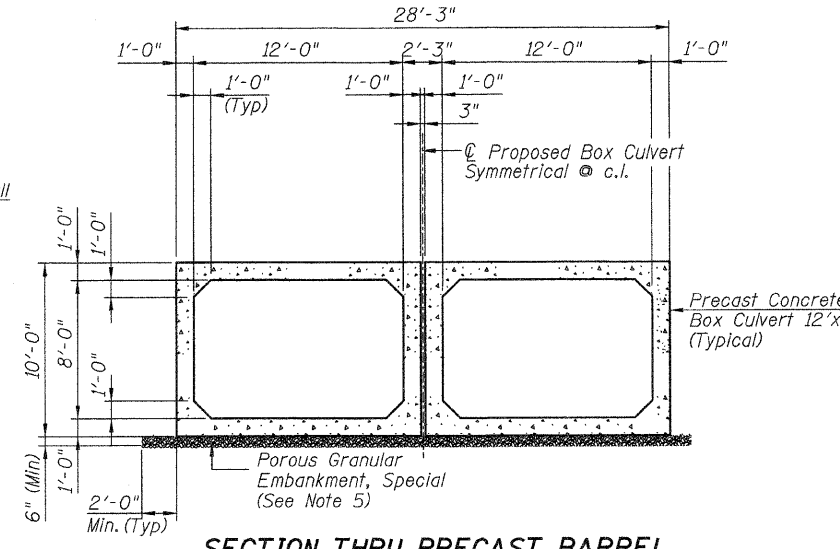
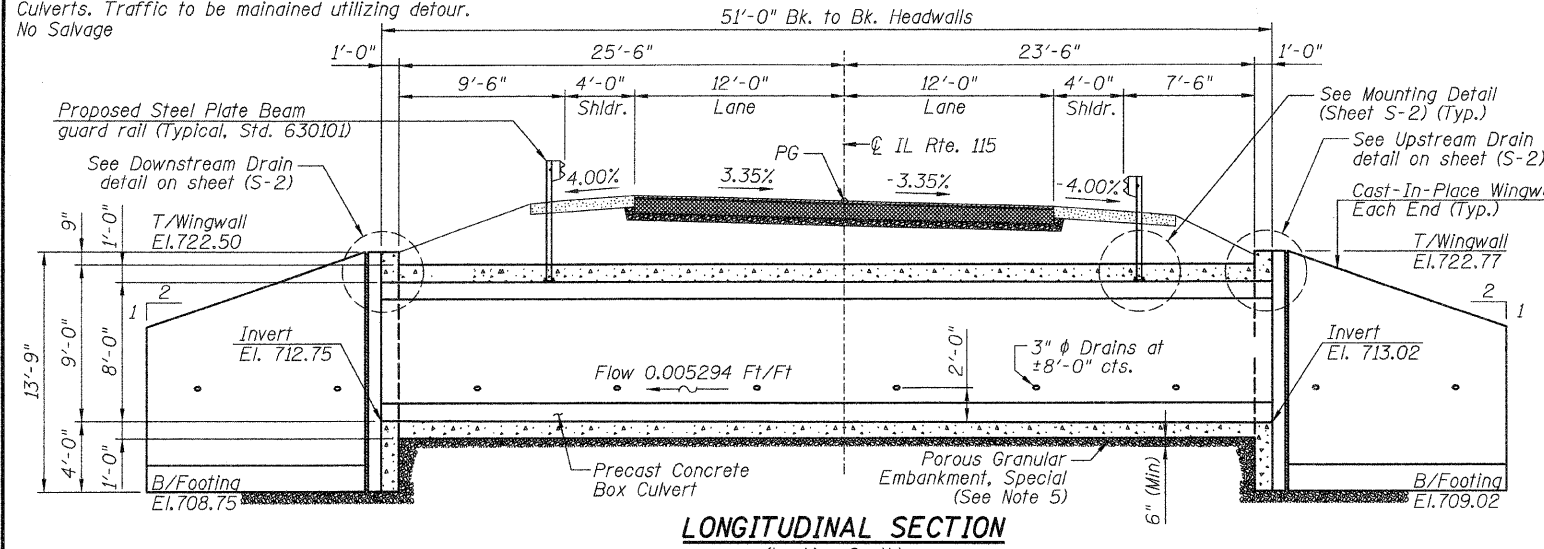
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S1
F.A.P. 798	*	FORD	92	44	S4 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	*107-BR, 108-BR, 108-BR-1 Contract #66698		

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	590.0
Porous Granular Embankment, Special	Cu. Yd.	44.0
Removal of Existing Structures No. 1	Each	1
Structure Excavation	Cu. Yd.	867.0
Reinforcement Bars	Pound	5,050.0
Reinforcement Bars, (Epoxy Coated)	Pound	790.0
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	51.0
Precast Concrete Box Culvert 12'x8'	Foot	98.0

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706, Grade 60 (IL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Excavation behind existing abutment walls shall be done before removing the existing superstructure.
- The material used to replace the unsuitable material removed below the bottom of the proposed precast concrete box culvert and cast-in-place concrete wingwalls shall be clean crushed material CA-7 for 6" layer and shall be paid for as "Porous Granular Embankment, Special".



3" nominal space shall be left between adjacent precast sections. After the precast cells are in place and backfill has been placed to mid height of the precast concrete box section on each side, the space between the cells shall be filled with class SI concrete. Cost included with pay item for "precast concrete box culvert 12'x8'".

HIGHWAY CLASSIFICATION

F.A.P. RTE. 798-IL RTE 115
Functional Class: Minor Arterial
ADT: 800 (2005); ADT 1000 (2018)
ADTT: 15%
DHV: 91 (1998); 125 (2018)
Design Speed: 55 Mph
Posted Speed: 55 Mph

LOADING HS20-44

Allow 50 #/sq. ft. for Future Wearing Surface

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

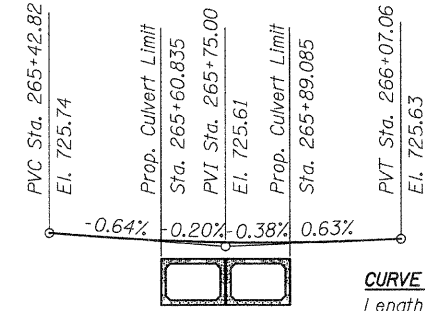
Field Units
Cast-In-Place Reinforced Concrete
f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)
Precast Concrete Box Culvert, Design as per AASHTO M 259 (ASTM C789):
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)

SEISMIC DATA

Seismic Performance Category (S.P.C.)=A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

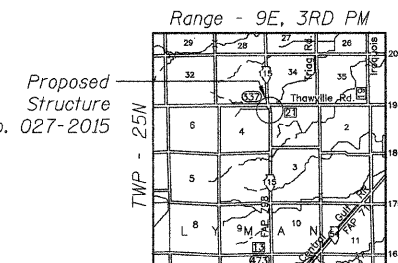
WATERWAY INFORMATION

Drainage Area = 1.51 sq. mi.		Exist. Low Grade Elev. = 725.64 @ Sta. 791+79.76		Prop. Low Grade Elev. = 725.64 @ Sta. 791+79.76		
Flood	Freq. Yr.	Q C.F.S.	Opening Exist. Prop.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
	10	767	129 184	720.7	0.2 0.0	720.9 720.7
Design	50	1308	162 192	722.1	0.5 0.4	722.7 722.5
Base	100	1558	170 192	722.5	0.9 0.9	723.4 723.4
Overtopping	-	-	-	-	-	-
Max. Calc.	500	2182	181 192	723.2	2.1 2.3	725.2 725.5



CURVE DATA:

Length of Curve = 64.24 Ft.
PVI Sta 265+75.00
El. 725.61'

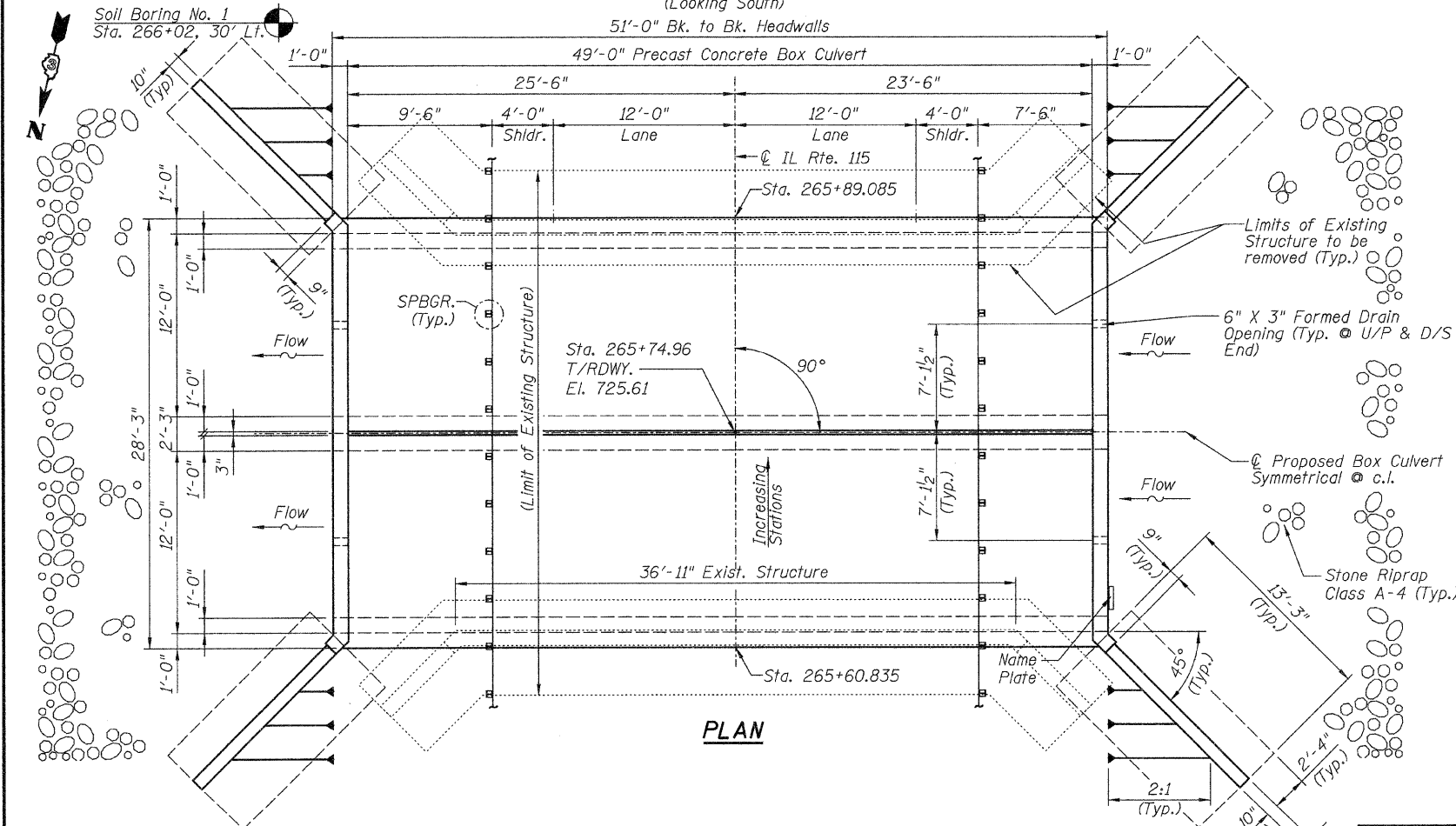


STATION 265+74.96
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 798 SEC. 108-B
LOADING HS20-44
STR. NO. 027-2015

NAME PLATE
See Std. 515001

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 108-BR-1
FORD COUNTY
STATION 265+74.96
EXISTING STRUCTURE NO. 027-0030
PROPOSED STRUCTURE NO. 027-2015

Scale: None August 2008



DESIGNED	GBC/GMK
CHECKED	GBC/SMK/GMK
DRAWN	RR
CHECKED	SMK

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

Indicates Boring Location

Soil Boring No. 2
Sta. 265+45, 30' Rt.

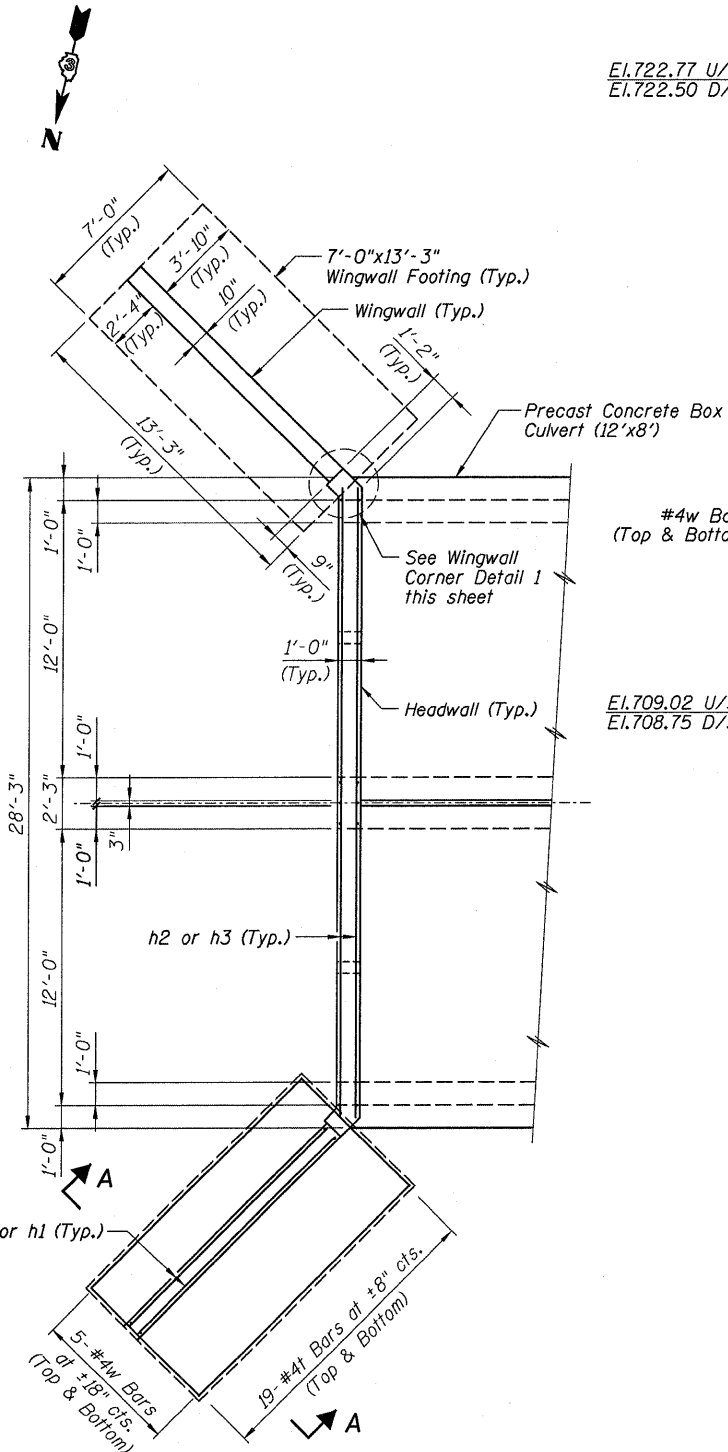


Syed M. Kazi
Licensed Structural Engineer
State of Illinois
Lic. No. 081-004047
Expires: 11-30-2008

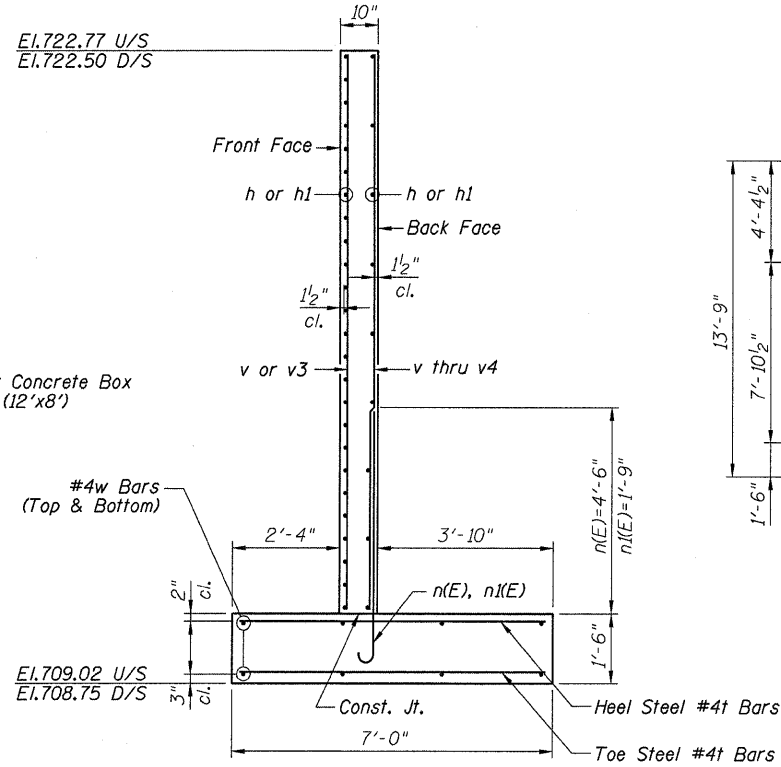
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 798	#	FORD	92	45
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

*107-BR, 108-BR, 108-BR-1 Contract #66698

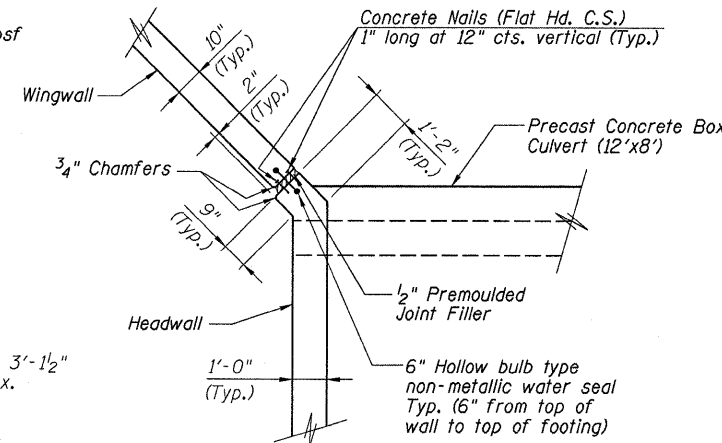


PLAN

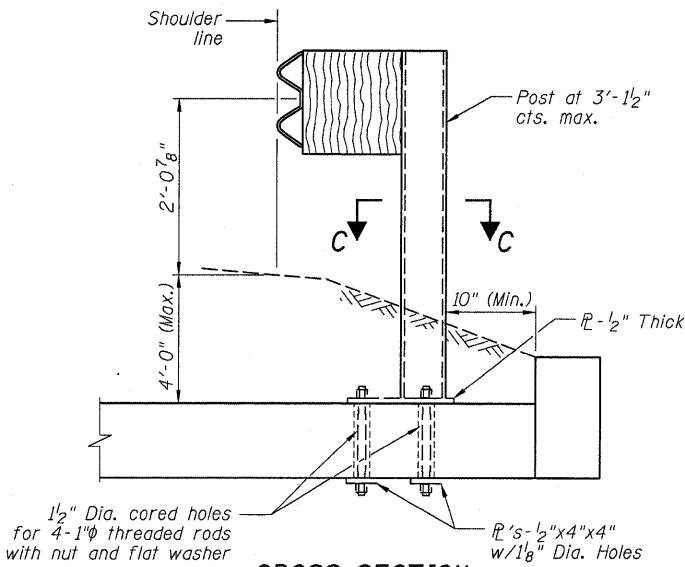


WINGWALL SECTION A-A

Allowable Soil Bearing Capacity = 3,526 psf

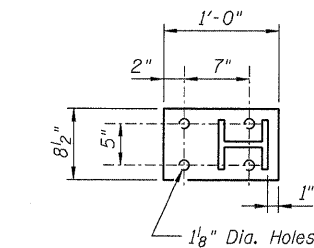


CORNER DETAIL

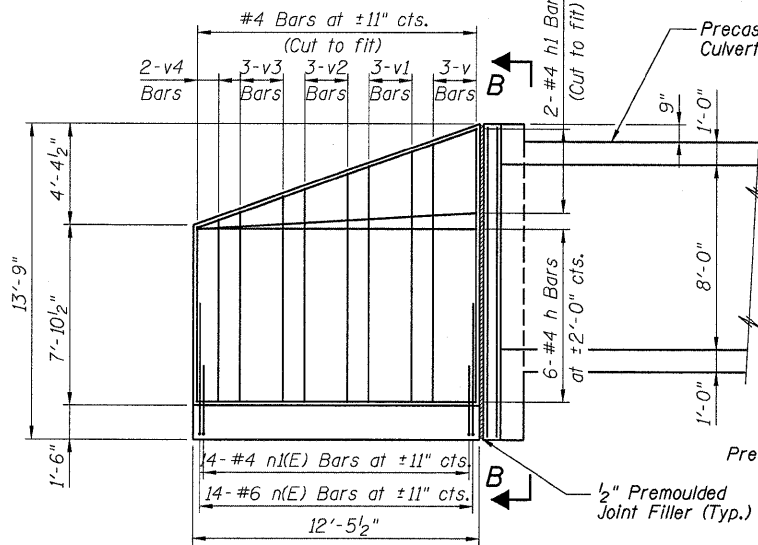


CROSS SECTION

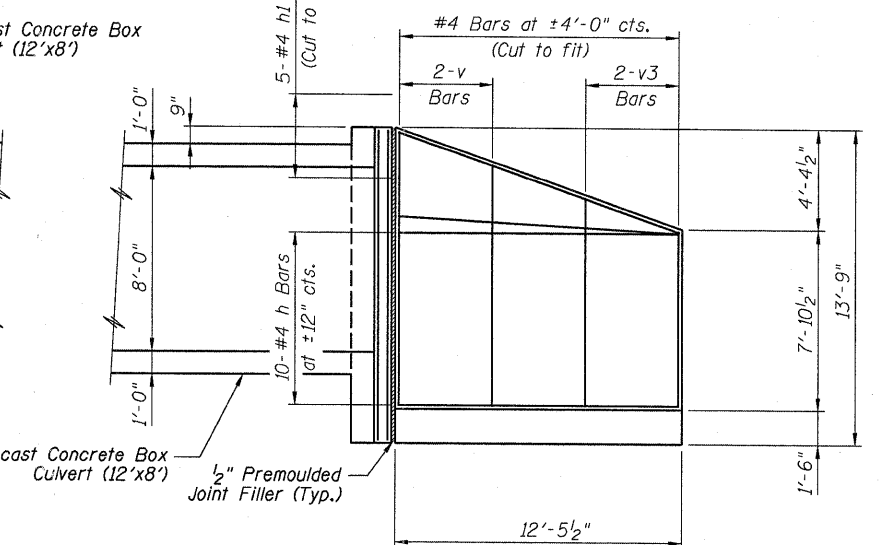
GUARD RAIL MOUNTED ON TOP
SLAB OF BOX CULVERT



SECTION C-C



WINGWALL REINFORCEMENT (BACKFACE)

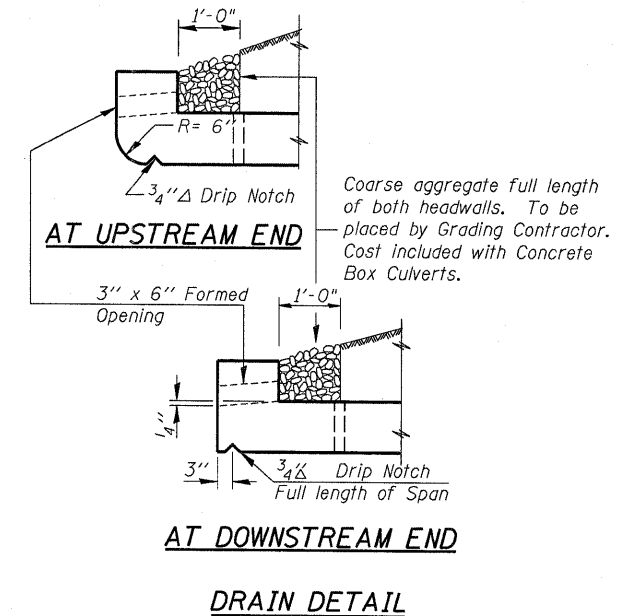


WINGWALL REINFORCEMENT (FRONTFACE)

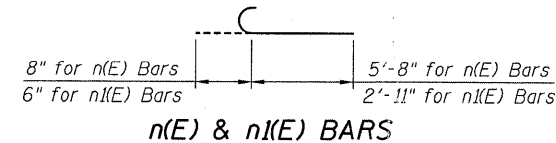
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d1	16	#4	5'-8"	
d2	16	#4	5'-0"	
h	64	#4	12'-3"	
h1	28	#4	13'-0"	
h2	8	#8	27'-5"	
h3	12	#7	27'-5"	
h4	12	#5	27'-5"	
n(E)	56	#6	6'-4"	
n1(E)	56	#4	3'-5"	
n2(E)	28	#4	6'-0"	
s	56	#4	5'-3"	
s1	28	#4	3'-3"	
s2	14	#4	6'-3"	
t	152	#4	6'-9"	
u	112	#4	5'-9"	
v	20	#4	11'-11"	
v1	12	#4	11'-0"	
v2	12	#4	10'-0"	
v3	20	#4	9'-0"	
v4	8	#4	8'-0"	
v5	12	#4	9'-6"	
v6	8	#4	10'-2"	
v7	8	#4	11'-2"	
w	40	#4	13'-0"	
Concrete Box Culvert	Cu. Yd.		51	
Reinforcement Bars, Epoxy Coated	Pound		790	
Reinforcement Bars	Pound		5,050	

Notes:
1. Quantities shown are for four wingwalls and two headwalls.



DRAIN DETAIL



n(E) & n1(E) BARS

DESIGNED	GBC/GMK
CHECKED	GBC/SMK/GMK
DRAWN	RR
CHECKED	SMK

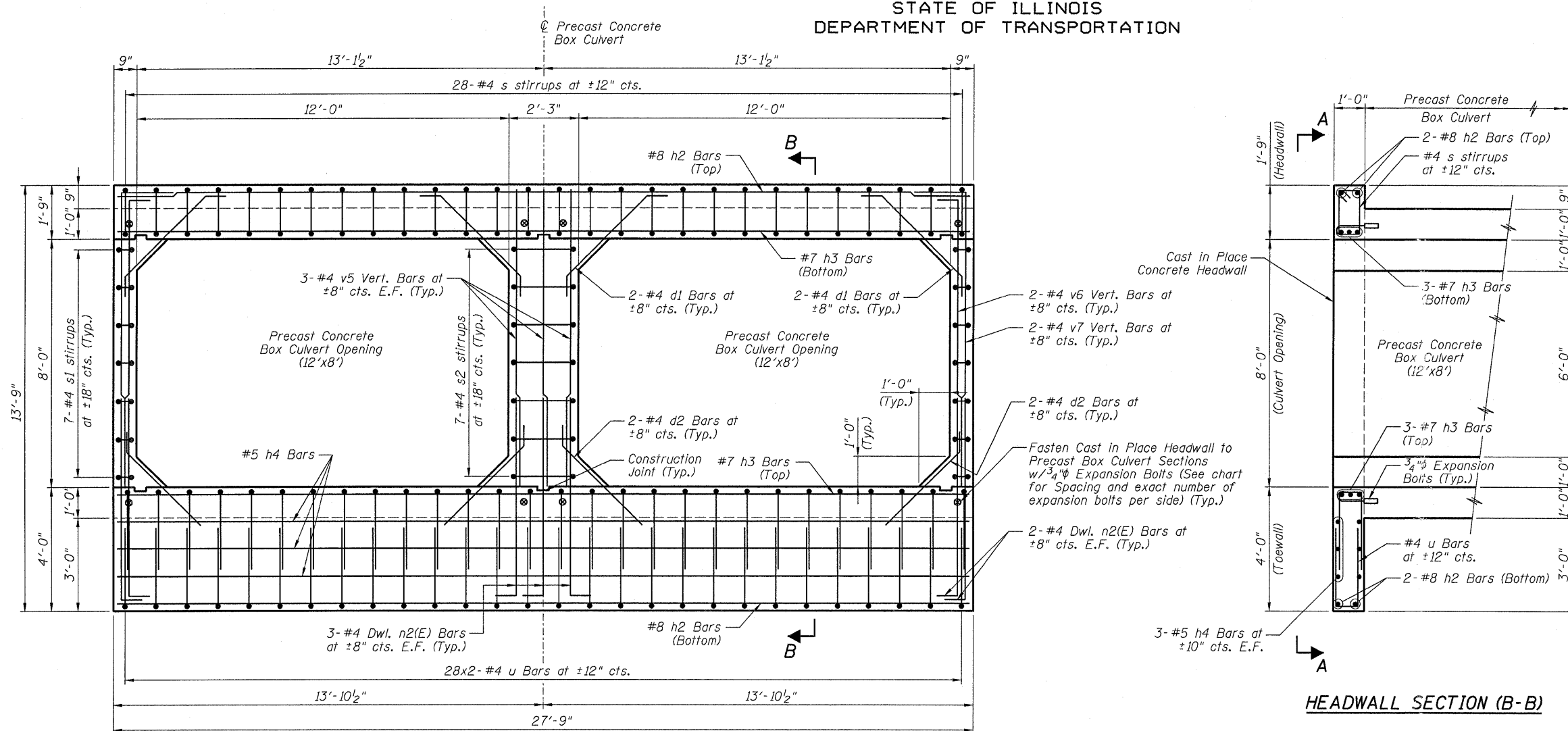
EXAMINED	200
PASSED	

WINGWALL SECTIONS AND DETAILS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 108-BR-1
FORD COUNTY
STATION 265+74.96
EXISTING STRUCTURE NO. 027-0030
PROPOSED STRUCTURE NO. 027-2015
Scale: None August 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S3 S4 SHEETS
F.A.P. 798	*	FORD	92	46	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-			

* 107-BR,108-BR,108-BR-1 Contract # 66698

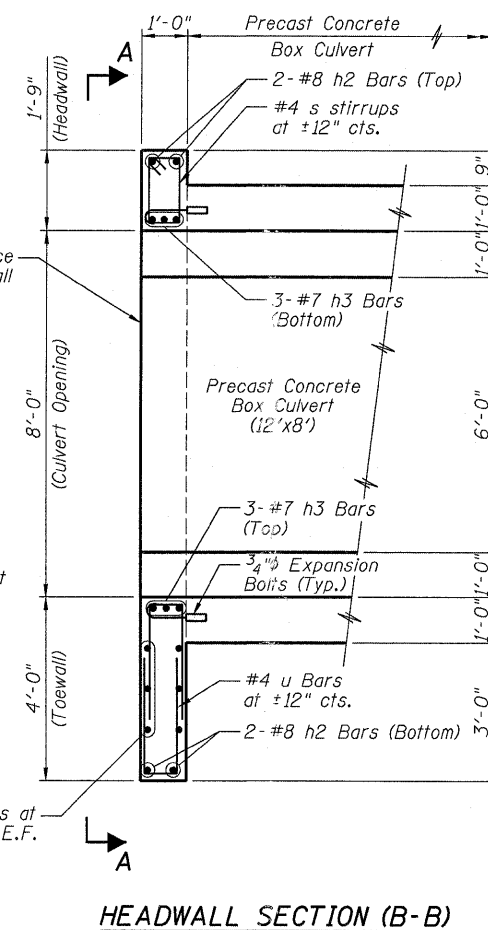


EXPANSION BOLT TABLE

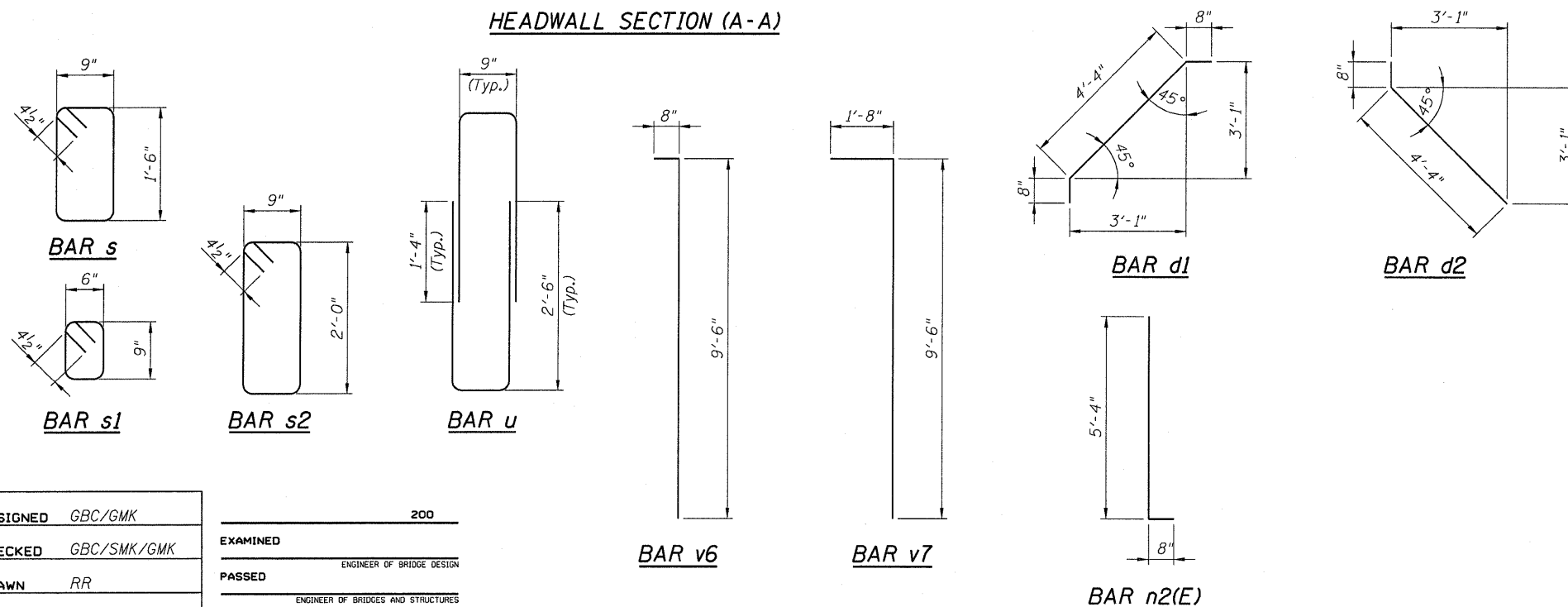
Clear Span or Clear Height	No. of $\frac{3}{4}$ " Expansion bolts Req'd per side	
	No. #	Spacing
8.0	6	17"
12.0	8	19"

Notes:

1. Use minimum of (1) one expansion bolt at each corner.
2. Total number of expansion bolts required = 112.
3. Expansion bolts shall be $\frac{3}{4}$ " hooked bolts. Hooked bolts shall extend a minimum of 9" into the new concrete. Precast concrete manufacturer shall provide holes in precast concrete box culvert for $\frac{3}{4}$ " expansion bolt inserts at specified locations.
4. Cost of $\frac{3}{4}$ " expansion bolts included with pay item for "Precast Concrete Box Culvert 12'x8'".



HEADWALL SECTION (A-A)



DESIGNED	GBC/GMK
CHECKED	GBC/SMK/GMK
DRAWN	RR
CHECKED	SMK

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

HEADWALL SECTIONS AND DETAILS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 108-BR-1
FORD COUNTY
STATION 265+74.96
EXISTING STRUCTURE NO. 027-0030
PROPOSED STRUCTURE NO. 027-2015

Scale: None August 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1

Date 10/6/05

ROUTE IL 115 DESCRIPTION IL 115- 3.97mi N of IL54 LOGGED BY Larry Myers
SECTION 108-B LOCATION NW 1/4, SEC. 3, TWP. 25n, RNG. 9E
COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	DEPTH H	BLOW S	UCS Qu	MOIST T	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	DEPTH H	BLOW S	UCS Qu	MOIST T	Description	Elev.
027-0030 265+75	1 SE quad 266+02	30.00ft Lt	219.91													
															Augered, black, Silty Clay with Gravel pieces- fill	
															Medium, gray, Silty Clay Till (continued)	
															Stiff, gray, Clay	197.91
															Stiff, gray brown, Silty Clay Loam Till	217.41
															Medium, brown gray, Silt and fine, Sand with minor, Clay	194.41
															Hard, brown, Silty Clay Till	212.91
															Very stiff, gray, Silty Clay Loam Till	191.41
															Very stiff, gray, Silty Clay Till	209.91
															End of Boring	183.41
															Medium, gray, Silty Clay Till	202.91

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

BBS, from 137 (Rev. 8-89)



SOIL BORING LOG

Page 1 of 1

Date 10/6/05

ROUTE IL 115 DESCRIPTION IL 115- 3.97mi N of IL54 LOGGED BY Larry Myers
SECTION 108-B LOCATION NW 1/4, SEC. 3, TWP. 25n, RNG. 9E
COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME automatic

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	DEPTH H	BLOW S	UCS Qu	MOIST T	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	DEPTH H	BLOW S	UCS Qu	MOIST T	Description	Elev.
027-0030 265+75	2 NW quad 265+45	30.00ft Rt	220.08													
															Augered, black, Silty Clay fill	
															Stiff, gray, Silty Clay Till (continued)	193.58
															Medium, brown, Silty Clay	218.08
															Stiff, gray brown, Silty Clay with layers of Silt	213.58
															Stiff, olive, Silty Clay Loam Till with Silt pocket at 34'	193.58
															Very stiff, gray brown, Silty Clay Loam Till- all gray after 11'	210.58
															Stiff, gray, Silty Clay Till	203.58

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

BBS, from 137 (Rev. 8-89)

DESIGNED	GBC/GMK
CHECKED	GBC/SMK/GMK
DRAWN	RR
CHECKED	SMK

200
EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

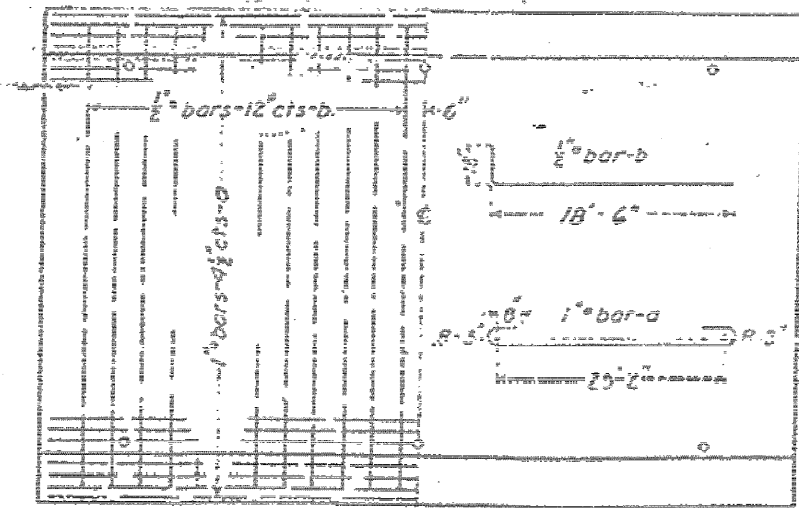
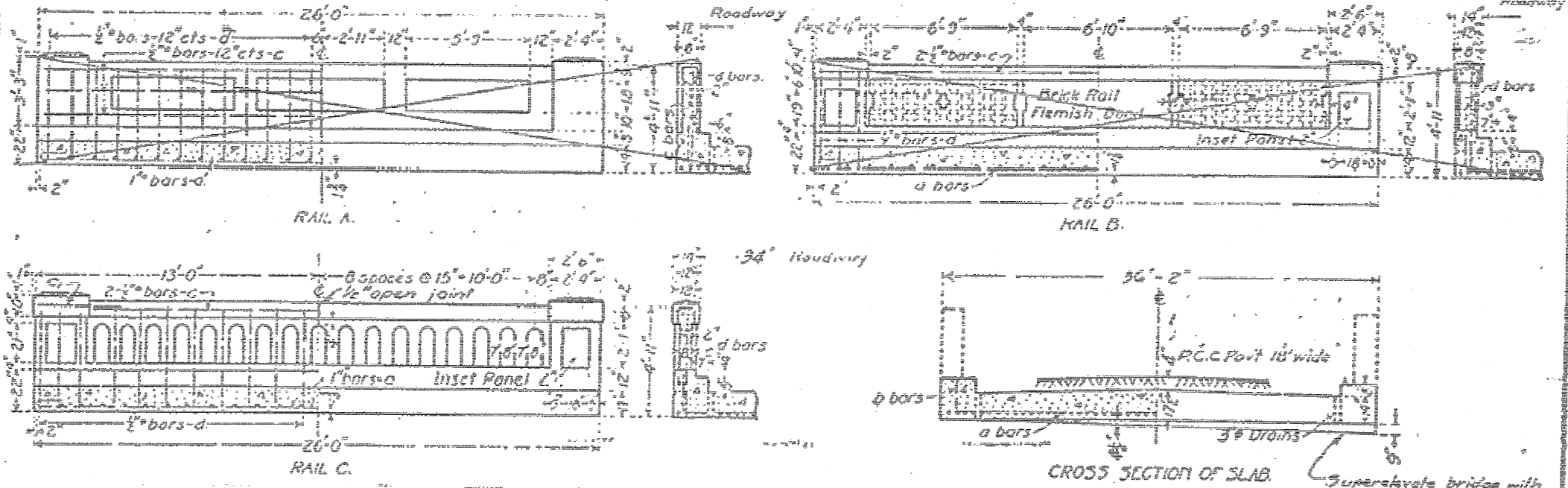
SOIL BORING LOGS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 108-BR-1
FORD COUNTY
STATION 265+74.96
EXISTING STRUCTURE NO. 027-0030
PROPOSED STRUCTURE NO. 027-2015
Scale: None August 2008

**EXISTING PLANS
FOR INFORMATION ONLY**

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

ROAD ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
115	Ford	108B	26	23

**REINFORCED CONCRETE SLAB
SPAN - TWENTY FOUR FEET
STR. NO. 027-0030**



BILL OF MATERIAL

	16 FT. ROADWAY	18 FT. ROADWAY	20 FT. ROADWAY	24 FT. ROADWAY	34 FT. ROADWAY
RAIL A	Steel Lbs. 5310 Concrete Cu Yds. 280	Steel Lbs. 5212 Concrete Cu Yds. 274	Steel Lbs. 6840 Concrete Cu Yds. 325	Steel Lbs. 8470 Concrete Cu Yds. 376	Steel Lbs. 9160 Concrete Cu Yds. 452
RAIL B	Steel Lbs. 3110 Concrete Cu Yds. 186	Steel Lbs. 3022 Concrete Cu Yds. 191	Steel Lbs. 6150 Concrete Cu Yds. 315	Steel Lbs. 1210 Concrete Cu Yds. 369	Steel Lbs. 1990 Concrete Cu Yds. 607
RAIL C	Steel Lbs. 5230 Concrete Cu Yds. 279	Steel Lbs. 5142 Concrete Cu Yds. 290	Steel Lbs. 6210 Concrete Cu Yds. 323	Steel Lbs. 7400 Concrete Cu Yds. 372	Steel Lbs. 10230 Concrete Cu Yds. 482

Use class X Concrete Throughout... USE RAIL C, 34' FT ROADWAY.

COMPUTED BY: J. J. Smith
CHECKED BY: J. J. Smith
DRAWN BY: J. J. Smith
DESIGNED BY: J. J. Smith
DATE: August 2008

SR. ROUTE 115 SECTION-108B
FORD COUNTY
STATION 265 + 75

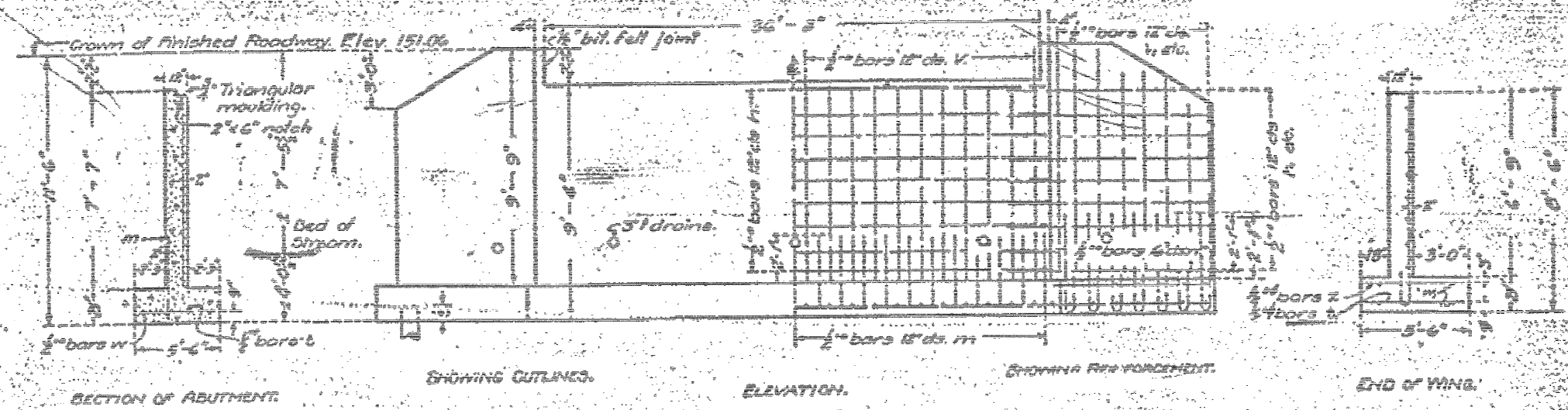
B.M. 29 - S.W. in T.P. 150' Lt. Sta. 264+50 Elev. 154.72
 Existing structure 16' I.B. span 14' Rdy. to be left in place.

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

PROJECT NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
115	Ford	108	92	25

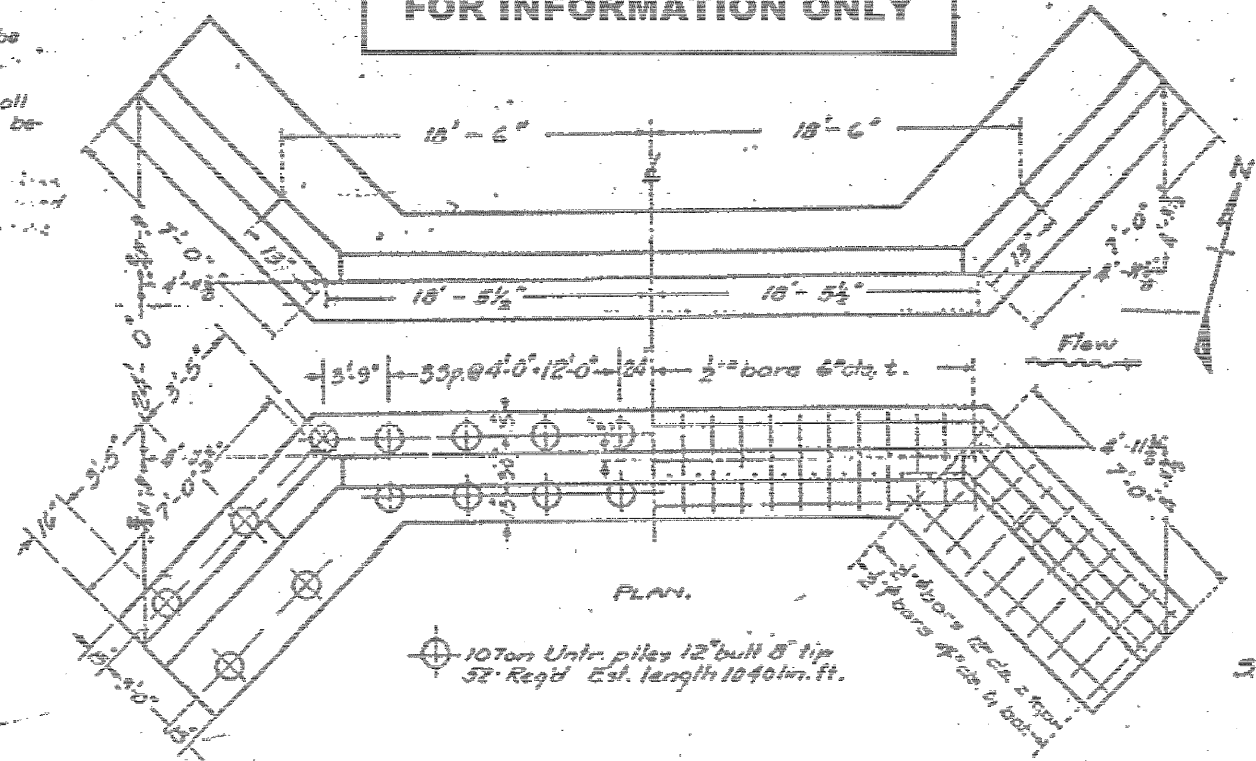
R.C. ABUTMENTS FOR SLAB BRIDGE
HEIGHT OVER ALL 11 FEET 6 INCHES

STR. NO. 027-0030



EXISTING PLANS FOR INFORMATION ONLY

Class X concrete shall be used throughout.
 All reinforcing steel shall be securely wired in place before concrete is poured.



BILL OF MATERIAL

Bars	No	Size	Length
v	72	1/2"	7'-0"
v	8	1/2"	9'-6"
v	8	1/2"	8'-0"
v	12	1/2"	6'-6"
m	32	1/2"	19'-0"
m	32	1/2"	8'-6"
b	168	1/2"	5'-5"
b	104	1/2"	5'-3"
x	32	1/2"	8'-5"
w	8	1/2"	19'-6"
w	16	1/2"	8'-0"
m	72	1/2"	7'-0"
n	56	1/2"	4'-5"

Reinforcing Steel Lbs. 7130
 Concrete Cu. Yds. 64.3

DESIGNED	GC/GMK
DRAWN	RR
CHECKED	GC/GMK
ASSEMBLED	J.R. Grohan
CHECKED	J.R. Grohan

J.R. Grohan
 J.R. Grohan
 J.R. Grohan

S.B.I. ROUTE 115 SECTION 108.5
 FORD COUNTY
 STATION 265+79

Bench Mark No. 2:
Set rail road spike in power pole sta. 315.78.739,
32,528 ft. right. El. 736.876.

Bench Mark No. 3:
Found Chiseled Square Top Wing Wall,
Sta. 319+07.705, 18,950 ft. Right,
El. 735.048.

Existing Structure:
The existing structure number 027-0031, built in 1928 is located 207 ft.
South of the original structure. The existing structure was built as SBI
Route 115, Section 108B, Ford County at station 318+82.42. The structure
is a one span reinforced concrete-slab bridge, with closed abutments
supported on untreated timber piles. The existing bridge is 26'-3 3/4" long
back to back of abutments & 36'-2" wide out to out of slab. The bridge
is at 30° RF skew. The existing structure to be removed and replaced by
2-10' wide x 6' deep Pre-Cast Concrete Box Culverts. Traffic to be
maintained utilizing detour.
No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

- S1 General Plan and Elevation
- S2 Wingwall Sections and Details
- S3 Headwall Sections and Details
- S4 Soil Boring Logs

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.P. 798	*	FORD	92	50
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

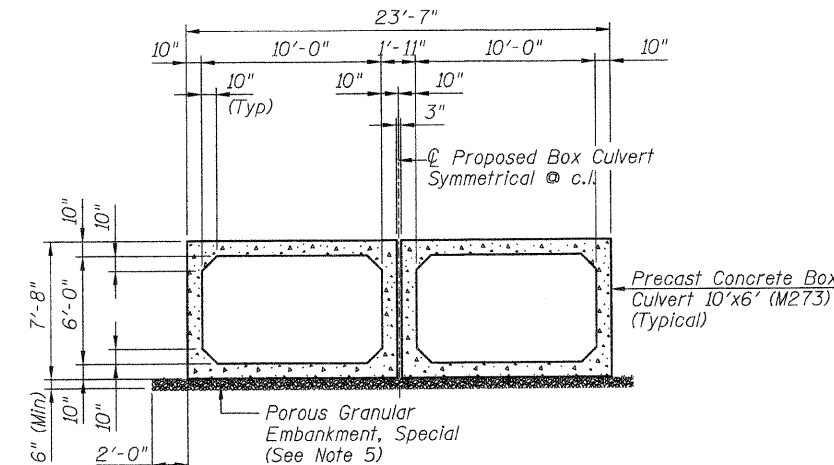
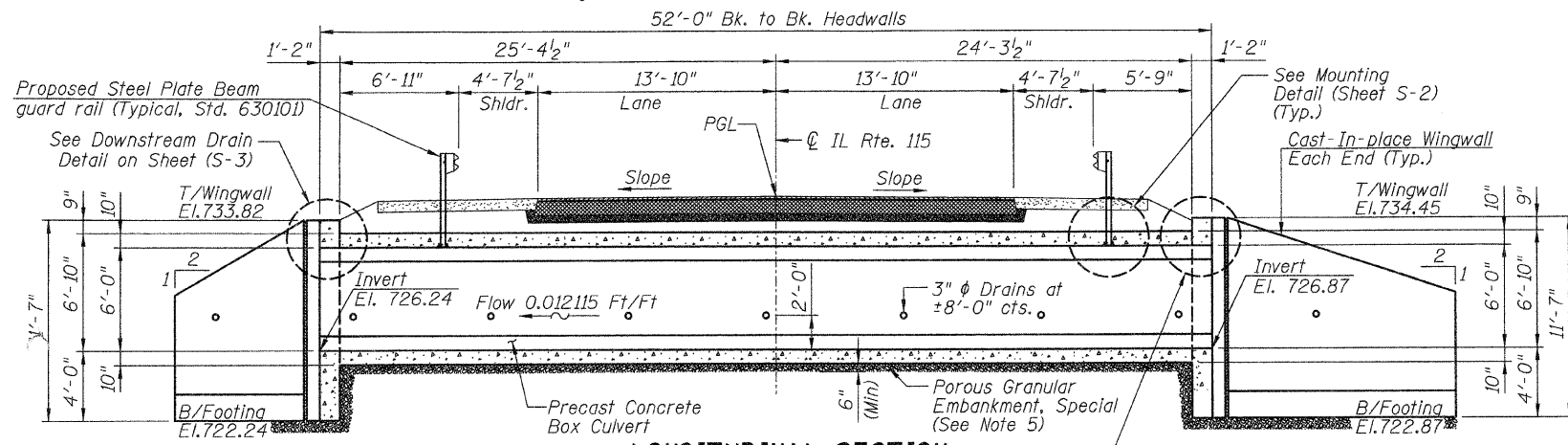
*107-BR,108-BR,108-BR-1 Contract #66698

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	284.0
Porous Granular Embankment, Special	Cu. Yd.	37.0
Removal of Existing Structures No. 2	Each	1
Structure Excavation	Cu. Yd.	515.0
Reinforcement Bars	Pound	16,370.0
Reinforcement Bars, (Epoxy Coated)	Pound	350.0
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	70.0
Precast Concrete Box Culvert 10'x6' (M273)	Foot	64.0

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706, Grade 60 (IL Modified). See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
4. Excavation behind existing abutment walls shall be done before removing the existing superstructure.
5. The material used to replace the unsuitable material removed below the bottom of the proposed precast concrete box culvert and cast-in-place concrete wingwalls shall be clean crushed material CA-7 for 6" layer and shall be paid for as "Porous Granular Embankment, Special".



3" nominal space shall be left between adjacent precast sections. After the precast cells are in place and backfill has been placed to mid height of the precast concrete box section on each side, the space between the cells shall be filled with class SI concrete. Cost included with pay item for "precast concrete box culvert 10'x6' (M273)

HIGHWAY CLASSIFICATION

F.A.P. RTE. 798-IL RTE 115
Functional Class: Minor Arterial
ADT: 800 (2005); ADT 1000 (2018)
DHW: 9K(1998); 125 (2018)
ADTT: 15.0 %
Design Speed: 55 Mph
Posted Speed: 55 Mph

LOADING HS20-44

Allow 50 #/sq. ft. for Future Wearing Surface

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

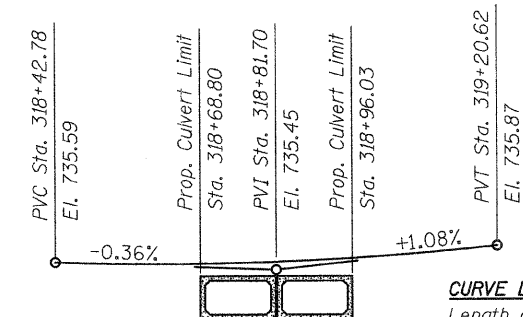
Field Units
Cast-In-Place Reinforced Concrete
f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)
Precast Concrete Box Culvert, Design as per AASHTO M 273 (ASTM C850).
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)

SEISMIC DATA

Seismic Performance Category (S.P.C.)=A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

WATERWAY INFORMATION

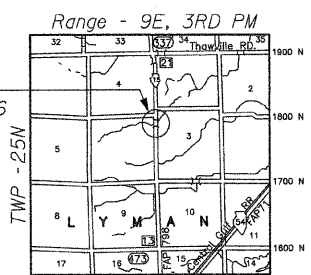
Drainage Area = 1.10 Sq. Mi.		Exist. Low Grade El. = 735.5 @ Sta. 318+75		Prop. Low Grade El. = 735.7 @ Sta. 318+75					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.			
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.			
Design	10	513	69.2	102.6	732.0	2.0	0.3	734.0	732.3
Base	50	867	87.9	120	732.9	2.5	0.7	735.5	733.6
Overtopping	100	1030	94.1	120	733.2	2.4	0.9	735.6	734.1
Max. Calc.	500	1432	96.6	120	734.0	2.4	1.5	736.4	735.5



CURVE DATA:
Length of Curve = 77.84 Ft.
PVI Sta 318+81.70
El. 735.45'

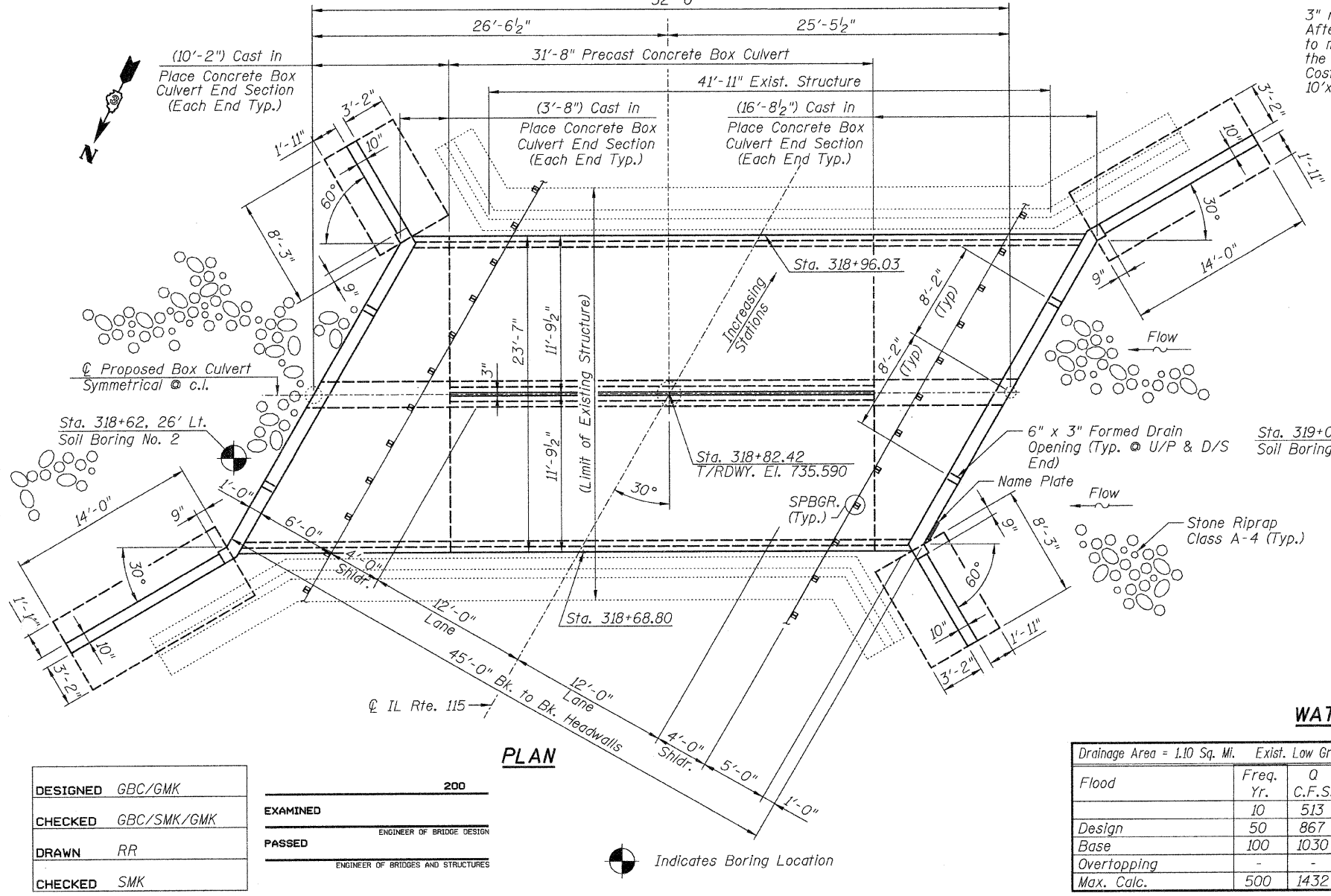
NAME PLATE

STATION 318+82.42
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 798 SEC. 108-B
LOADING HS20-44
STR. NO. 027-2016
See Std. 515001



GENERAL PLAN AND ELEVATION

ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 108-BR
FORD COUNTY
STATION 318+82.42
EXISTING STRUCTURE NO. 027-0031
PROPOSED STRUCTURE NO. 027-2016
Scale: None August 2008

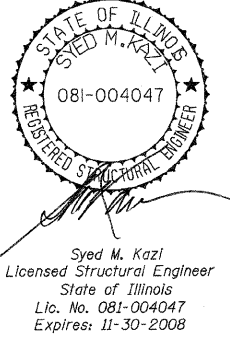


DESIGNED	GBC/GMK
CHECKED	GBC/SMK/GMK
DRAWN	RR
CHECKED	SMK

EXAMINED
ENGINEER OF BRIDGE DESIGN

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

Indicates Boring Location

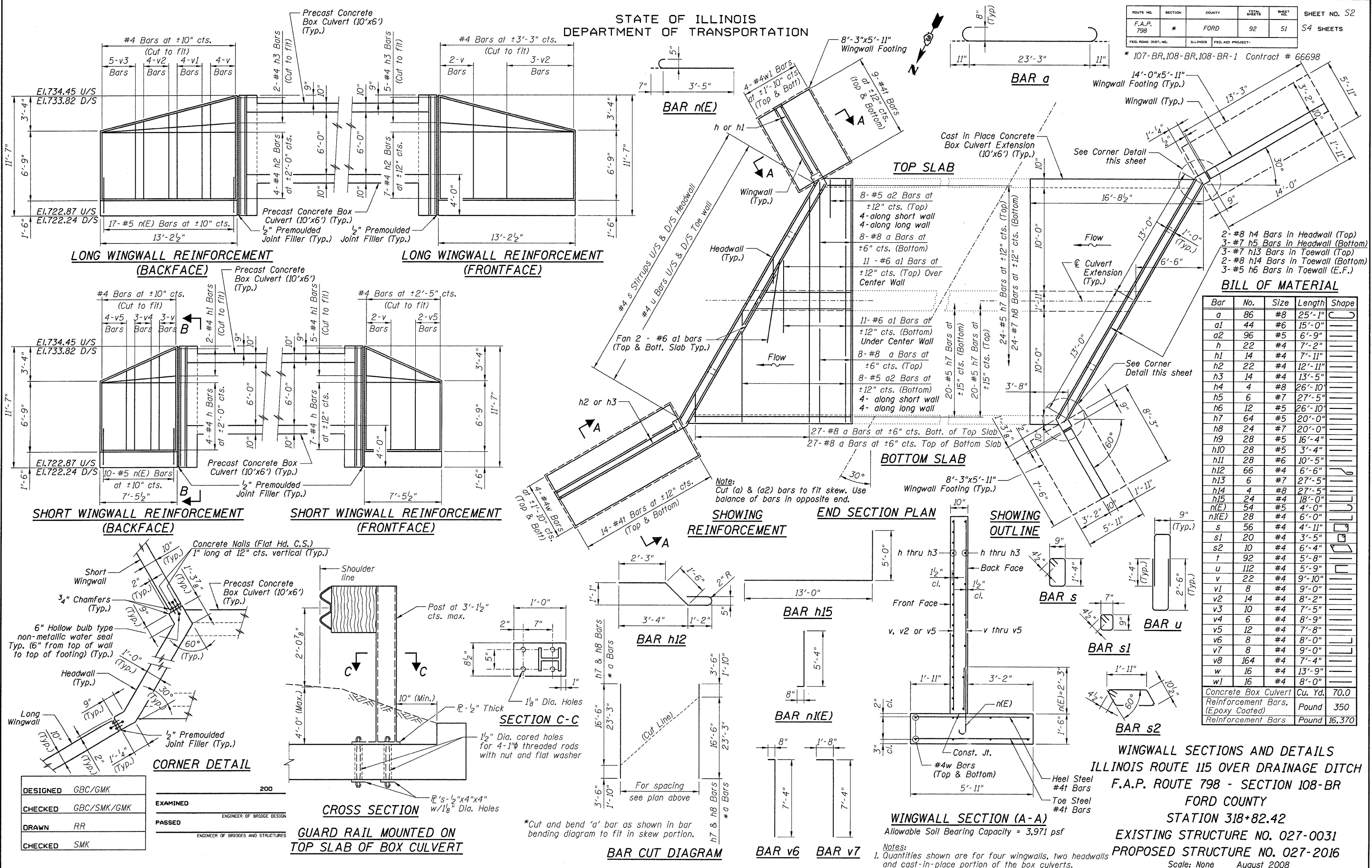


Syed M. Kazl
Licensed Structural Engineer
State of Illinois
Lic. No. 081-004047
Expires: 11-30-2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 798	*	FORD	92	51
S4 SHEETS				

* 107-BR, 108-BR, 108-BR-1 Contract # 66698



BILL OF MATERIAL

Bar No.	Size	Length	Shape
a	#8	25'-1"	U
a1	#6	15'-0"	U
a2	#5	6'-9"	U
h	#4	7'-2"	U
h1	#4	7'-11"	U
h2	#4	12'-11"	U
h3	#4	13'-5"	U
h4	#8	26'-10"	U
h5	#7	27'-5"	U
h6	#5	26'-10"	U
h7	#5	20'-0"	U
h8	#7	20'-0"	U
h9	#5	16'-4"	U
h10	#5	3'-4"	U
h11	#6	10'-5"	U
h12	#6	6'-6"	U
h13	#7	27'-5"	U
h14	#8	27'-5"	U
h15	#4	18'-0"	U
n(E)	#5	4'-0"	U
n(E)	#4	6'-0"	U
s	#4	4'-11"	U
s1	#4	3'-5"	U
s2	#4	6'-4"	U
t	#4	5'-8"	U
u	#4	5'-9"	U
v	#4	9'-10"	U
v1	#4	9'-0"	U
v2	#4	8'-2"	U
v3	#4	7'-5"	U
v4	#4	8'-9"	U
v5	#4	7'-8"	U
v6	#4	8'-0"	U
v7	#4	9'-0"	U
v8	#4	7'-4"	U
w	#4	13'-9"	U
w1	#4	8'-0"	U
Concrete Box Culvert	Cu. Yd.	70.0	
Reinforcement Bars, (Epoxy Coated)	Pound	350	
Reinforcement Bars	Pound	16,370	

DESIGNED	GBC/GMK	EXAMINED	200
CHECKED	GBC/SMK/GMK	PASSED	ENGINEER OF BRIDGE DESIGN
DRAWN	RR		ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	SMK		

CROSS SECTION
GUARD RAIL MOUNTED ON TOP SLAB OF BOX CULVERT

BAR CUT DIAGRAM
BAR v6 BAR v7

WINGWALL SECTION (A-A)
Allowable Soil Bearing Capacity = 3,971 psf

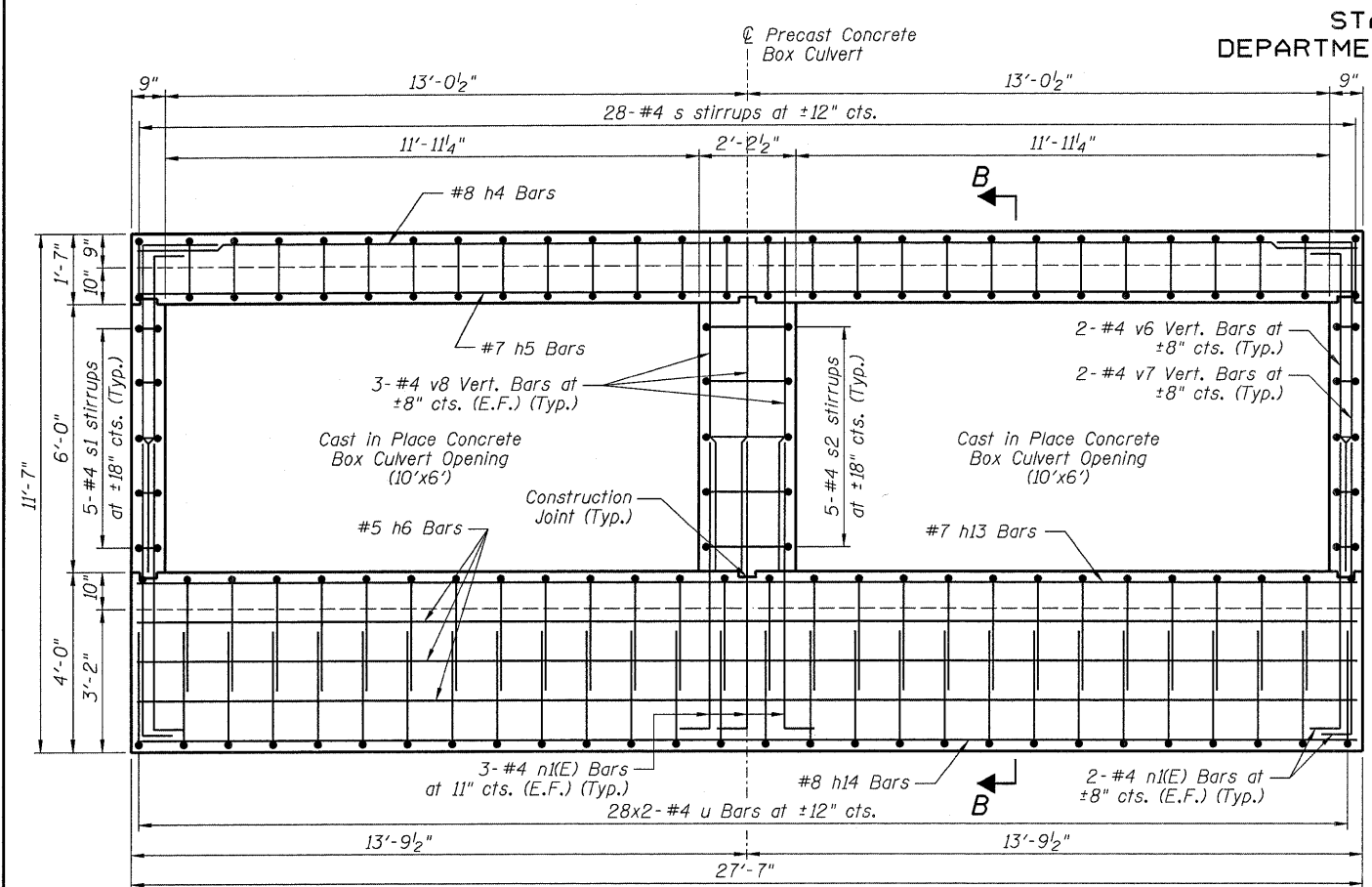
WINGWALL SECTIONS AND DETAILS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 108-BR
FORD COUNTY
STATION 318+82.42
EXISTING STRUCTURE NO. 027-0031
PROPOSED STRUCTURE NO. 027-2016
Scale: None August 2008

Notes:
1. Quantities shown are for four wingwalls, two headwalls and cast-in-place portion of the box culverts.

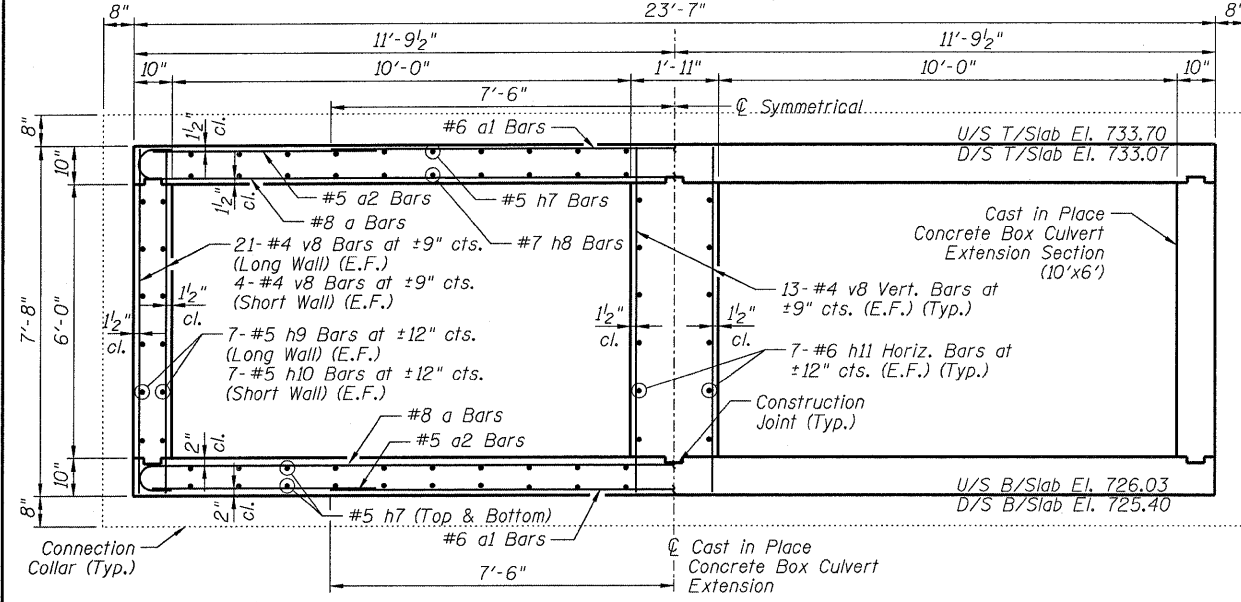
*Cut and bend 'a' bar as shown in bar bending diagram to fit in skew portion.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

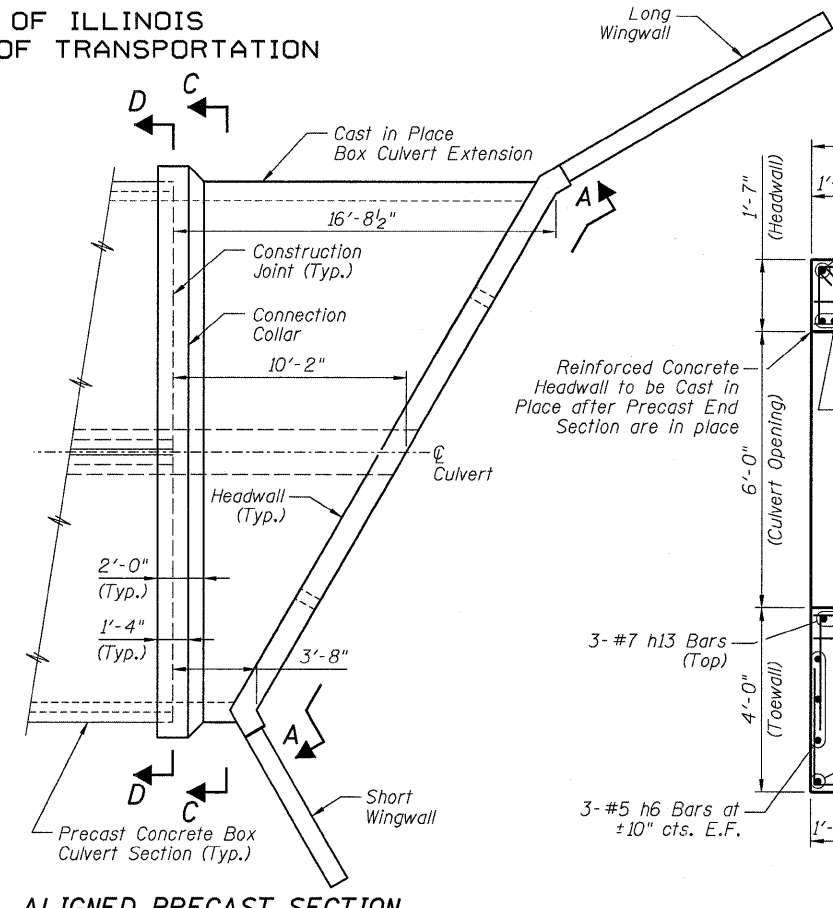
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. S3
F.A.P. 798	#	FORD	92	52	S4 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			



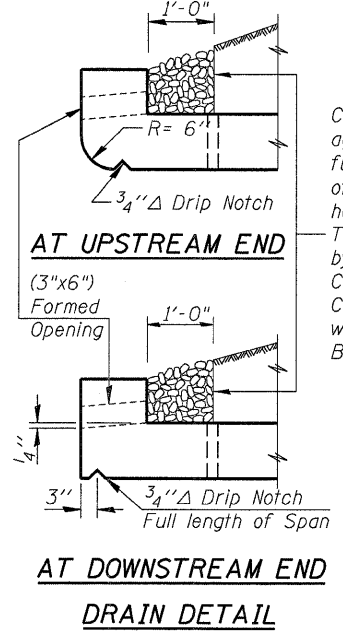
HEADWALL SECTION (A-A)
(Cut Along Skew)



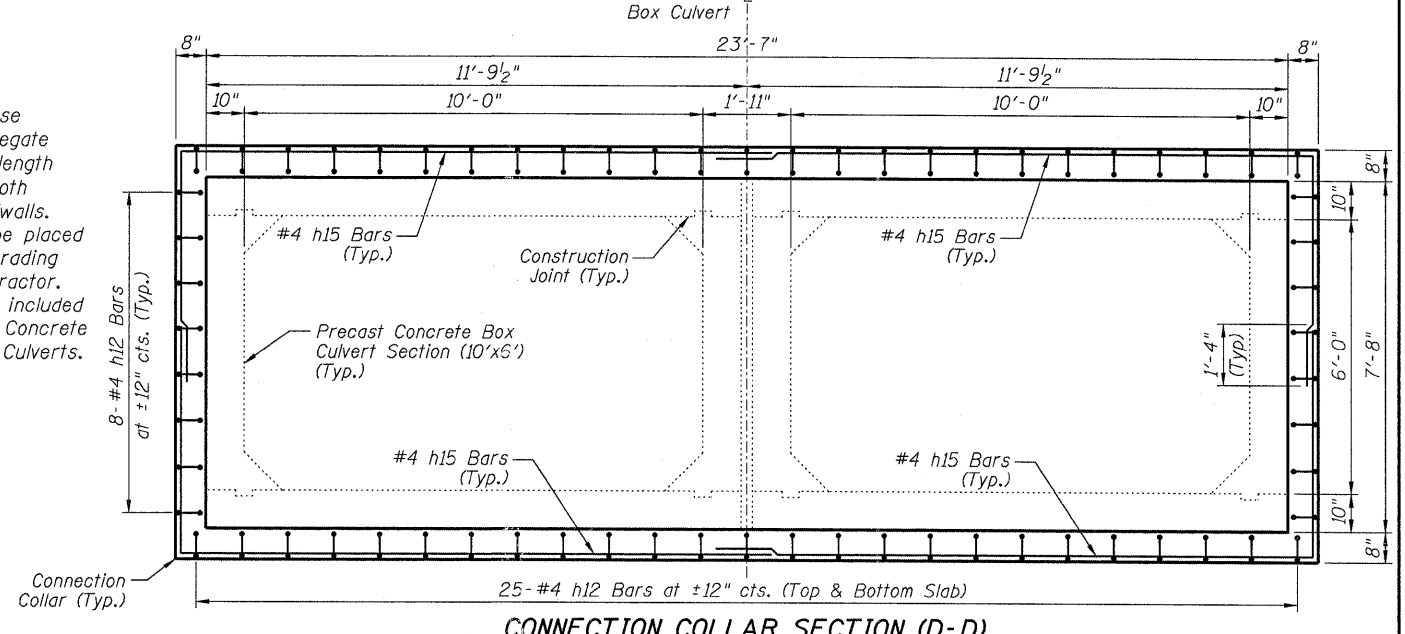
CAST IN PLACE BOX CULVERT EXTENSION SECTION (C-C)



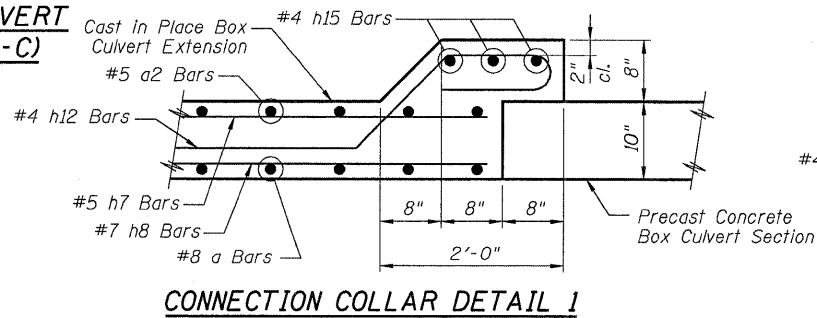
ALIGNED PRECAST SECTION



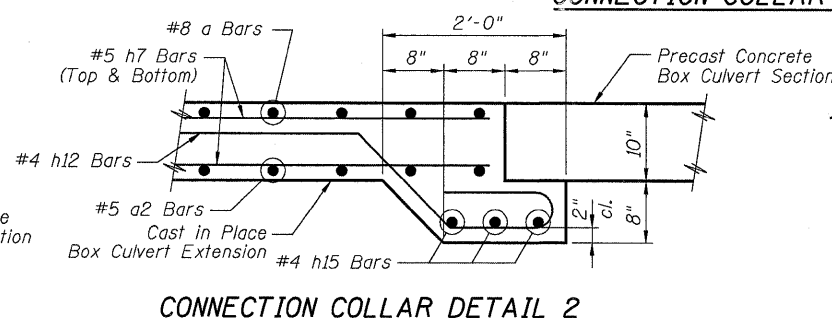
DRAIN DETAIL



CONNECTION COLLAR SECTION (D-D)



CONNECTION COLLAR DETAIL 1



CONNECTION COLLAR DETAIL 2

DESIGNED	GBC/GMK	200
CHECKED	GBC/SMK/GMK	ENGINEER OF BRIDGE DESIGN
DRAWN	RR	PASSED
CHECKED	SMK	ENGINEER OF BRIDGES AND STRUCTURES

HEADWALL SECTIONS AND DETAILS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 108-BR
FORD COUNTY
STATION 318+82.42
EXISTING STRUCTURE NO. 027-0031
PROPOSED STRUCTURE NO. 027-2016
Scale: None August 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. S4 S4 SHEETS
F.A.P. 798	*	FORD	92	53	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

* 107-BR,108-BR,108-BR-1 Contract # 66698



Illinois Department
of Transportation
Division of Highways
District #5, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 10/5/05

ROUTE IL 115 DESCRIPTION IL 115 over Drainage Ditch LOGGED BY Larry Myers

SECTION 108-B LOCATION NW 1/4, SEC. 3, TWP. 25, RNG. 9 E

COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME automatic

STRUCT. NO. 027-0031
Station 318+82.42
BORING NO. 1 SW Quad
Station 319+07
Offset 50.00ft RL
Ground Surface Elev. 732.05 ft

DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
				727.91				
				Stream Bed Elev.				
				Groundwater Elev.:				
				First Encounter				
				Upon Completion				
				After Hrs.				
				729.55				
				727.05				
				725.05				
				720.05				
				717.55				
				695.55				

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

BBS, from 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
District #5, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 10/5/05

ROUTE IL 115 DESCRIPTION IL 115 over Drainage Ditch LOGGED BY Larry Myers

SECTION 108-B LOCATION NW 1/4, SEC. 3, TWP. 25, RNG. 9 E

COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME automatic

STRUCT. NO. 027-0031
Station 318+82.42
BORING NO. 2 NE Quad
Station 318+82
Offset 26.00ft Lt
Ground Surface Elev. 732.19 ft

DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
				727.91				
				Stream Bed Elev.				
				Groundwater Elev.:				
				First Encounter				
				Upon Completion				
				After Hrs.				
				730.19				
				725.69				
				723.19				
				718.19				
				696.19				

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

BBS, from 137 (Rev. 8-99)

DESIGNED	GBC/GMK
CHECKED	GBC/SMK/GMK
DRAWN	RR
CHECKED	SMK

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

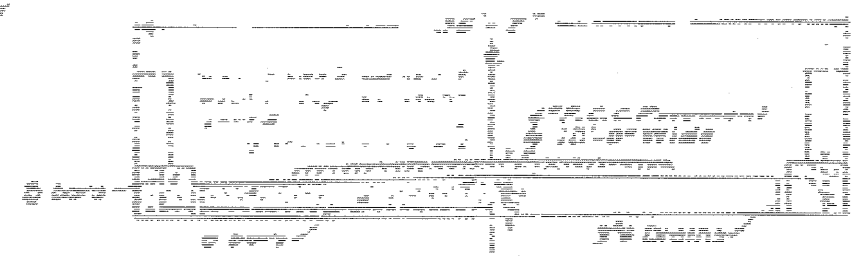
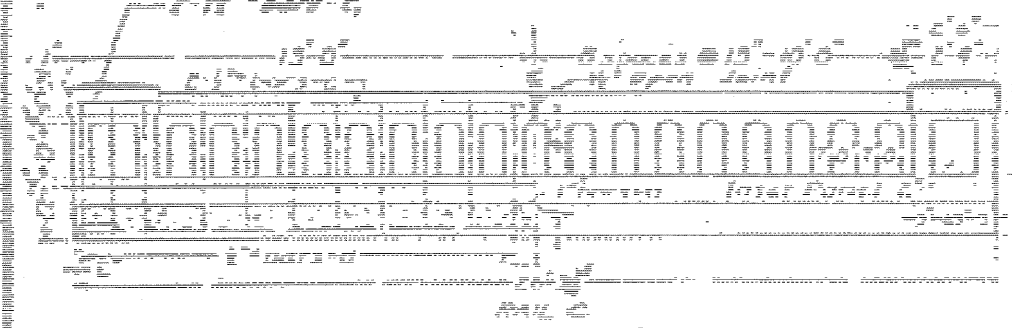
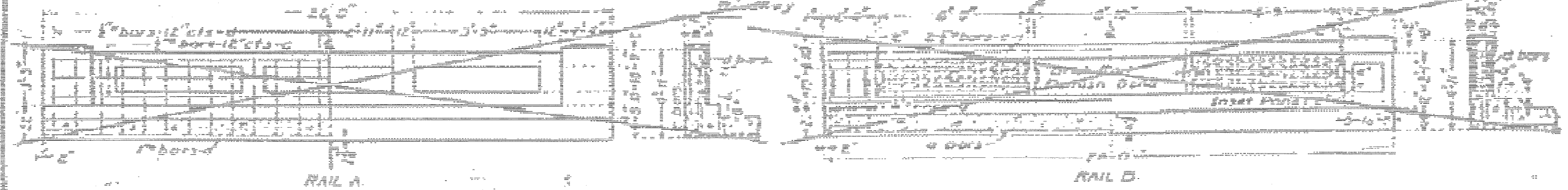
SOIL BORING LOGS
ILLINOIS ROUTE 115 OVER DRAINAGE DITCH
F.A.P. ROUTE 798 - SECTION 108-BR
FORD COUNTY
STATION 318+82.42
EXISTING STRUCTURE NO. 027-0031
PROPOSED STRUCTURE NO. 027-2016
Scale: None August 2008

**EXISTING PLANS
FOR INFORMATION ONLY**

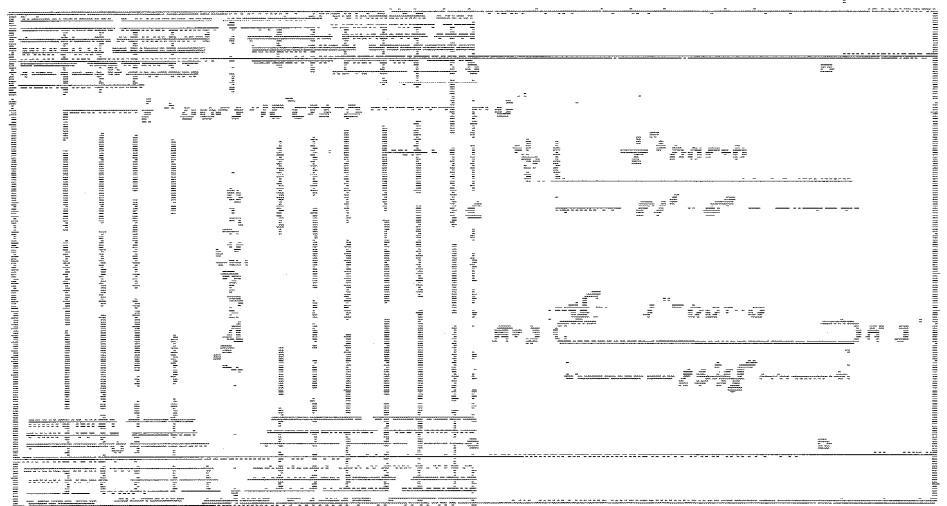
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
REINFORCED CONCRETE SLAB
SPAN - TWENTY FOUR FEET ON 4

ROUTE NO.	COUNTY	SECTION	TOTAL SHEETS	SHEET NO.
115	Ford	108-B	92	54

STR. NO. 027-0031



CROSS SECTION OF SLAB
AT RIGHT ABUTMENT
REL. OF MATERIAL

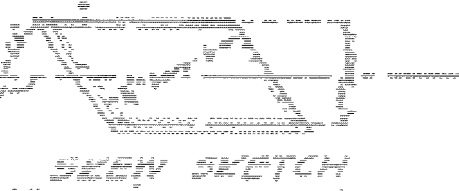


	12 FT ROADWAY	12 FT ROADWAY	12 FT ROADWAY	12 FT ROADWAY
Concrete Slab	12'-0"	12'-0"	12'-0"	12'-0"
Reinforcement
...

USE CLASS CONCRETE THROUGHOUT. USE RAIL E, 34 FT ROADWAY.

DESIGNED	GC/GMK
DRAWN	RR
CHECKED	GC/GMK
DATE	August 2008

Handwritten signatures and notes:
J. R. ...
...



2 B.I. ROUTE 115 - SECTION 108-B
FORD COUNTY
STATION 318+33

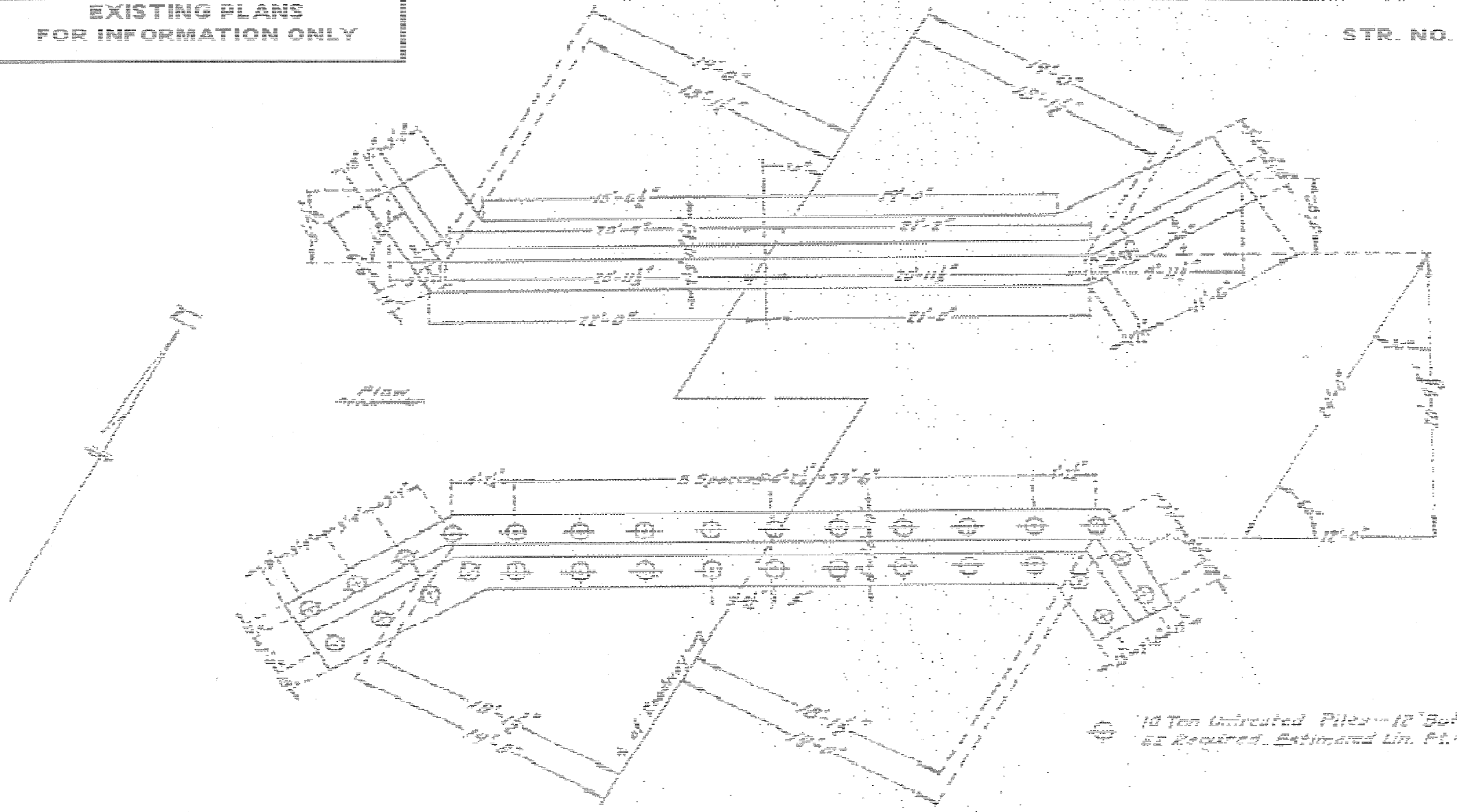
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

Sheet No. 3
9 Sheets -

ROAD ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
115	Ford	108-B	92	55

EXISTING PLANS
FOR INFORMATION ONLY

STR. NO. 027-0031



EXAMINED *[Signature]* 1928

DESIGNED *[Signature]*
BRIDGE ENGINEER

CHECKED *[Signature]*

APPROVED *[Signature]*
BRIDGE ENGINEER

S.B.I. ROUTE 115 - SECTION 108-B
FORD COUNTY
STATION 315+33

SPECIAL	DRAWN - <i>[Signature]</i>
	CHECKED - <i>[Signature]</i>

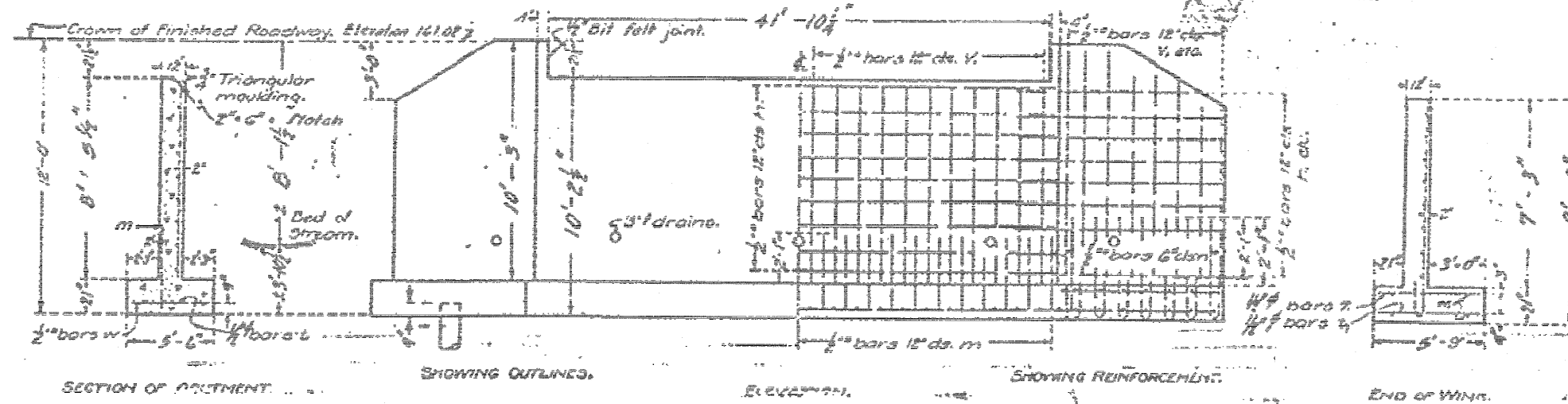
B.M. 24 Sp. 6W in T.P. Lt.
 Sta. 316+76 Elevation 160.81
 Existing Structure I-beam Span 13' Rdy. 13'
 To Be Removed By Bridge Contractor.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS
 R.C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 12 FEET

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
115	108B	Ford	26	24
FED. ROAD DIST. NO. 7		SECTION	FED. AID PROJECT	

Sheet No 2
 E Street
 STR. NO. 027-0031

**EXISTING PLANS
 FOR INFORMATION ONLY**



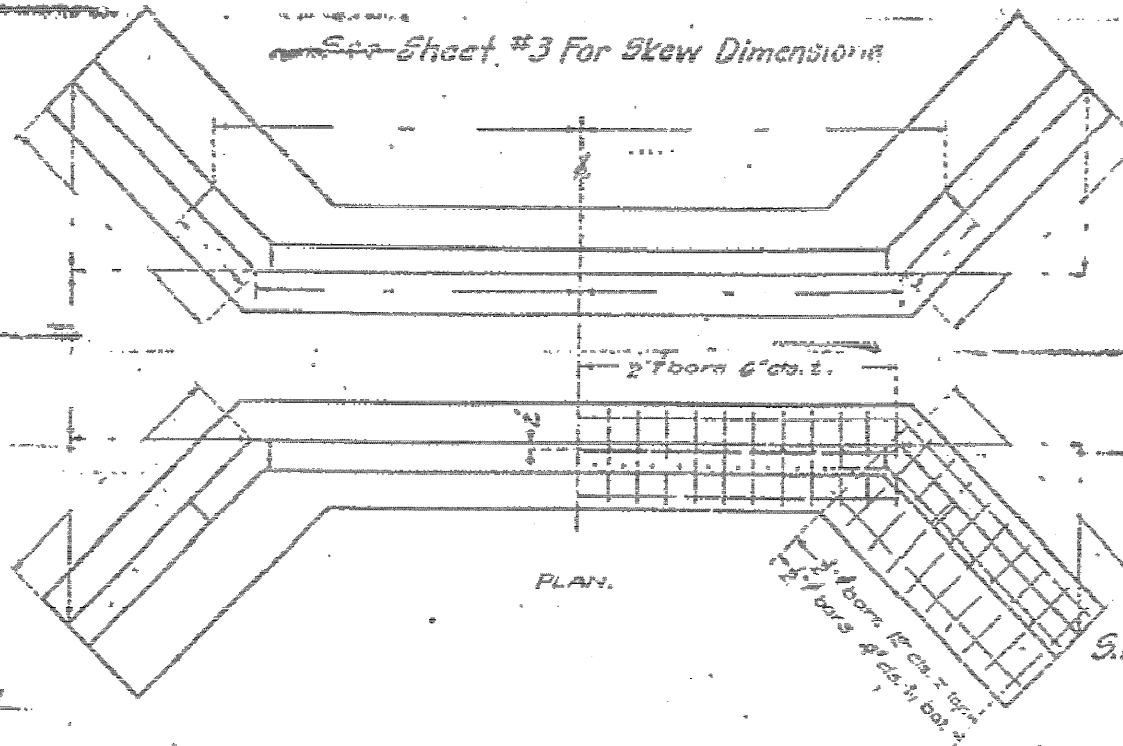
Class X concrete shall be used throughout.

All reinforcing steel shall be securely wired in place before concrete is poured.

Long Wing - 5V, 5V, 8h, 1h, 20d, 34d, 112, 4W.

Short Wing - 3V, 3V, 8h, 1h, 12, 2, 4W.

See Sheet #3 For Skew Dimensions



BILL OF MATERIAL.

QTY	NO	SIZE	LENGTH
V	86	5"	8'-0"
V	16	4"	9'-0"
V	15	4"	7'-0"
h	2	4"	5'-0"
h	96	4"	22'-0"
h	16	4"	17'-0"
h	10	4"	8'-0"
h	172	4"	5'-5"
h	126	4"	5'-0"
h	36	4"	5'-6"
w	8	4"	22'-0"
w	8	4"	15'-0"
w	86	4"	3'-0"
w	64	4"	4'-5"

Reinforcing Steel - Lbs. 3720

Concrete Co. Yds. 84.1

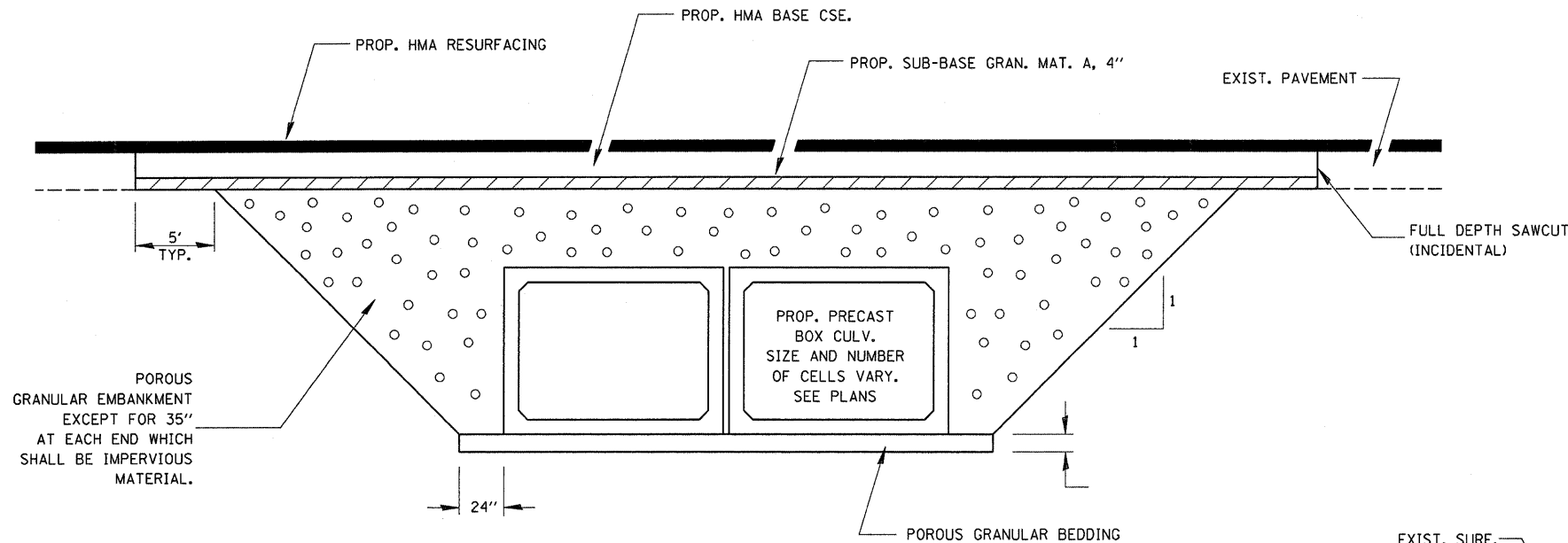
Wc 8 4" 5'-0"

DESIGNED	COMPILED - H.H. Duffell
DRAWN	CHECKED - F.D. Leary
CHECKED - H.H. Duffell	APPROVED - H.H. Duffell
DATE	DATE

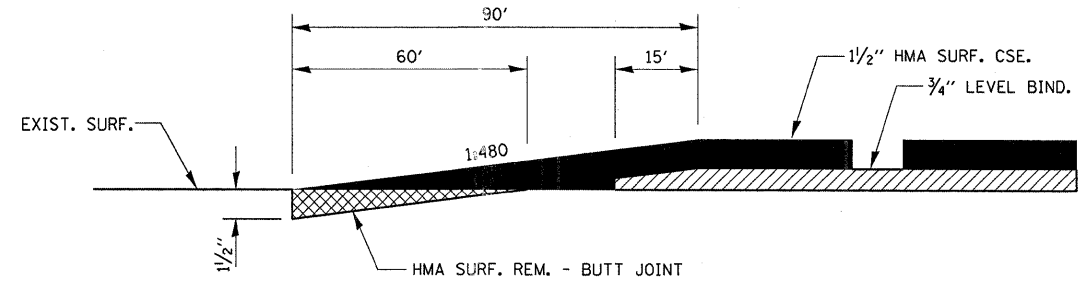
Drawn by
 Checked by
 Approved by
 Date

S.B.I. ROUTE 115 - SECTION 108-B
 FORD COUNTY
 STATION 318+83

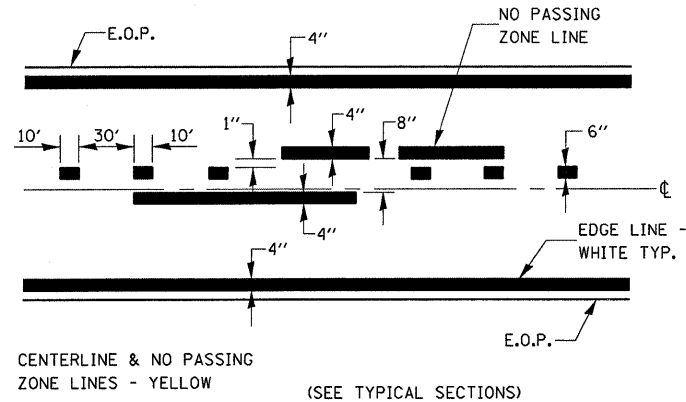
977



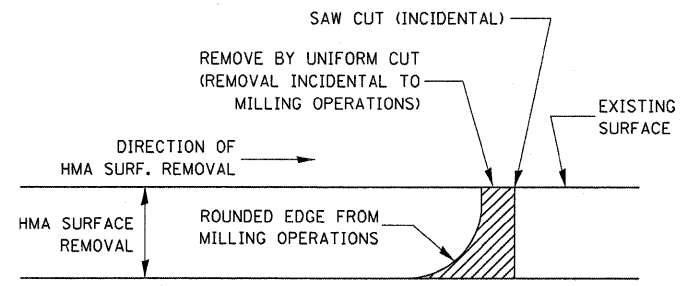
SECTION THROUGH PRECAST BOX CULVERT



BUTT JOINT

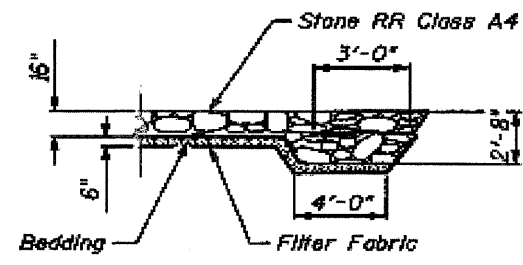


PAVEMENT MARKING

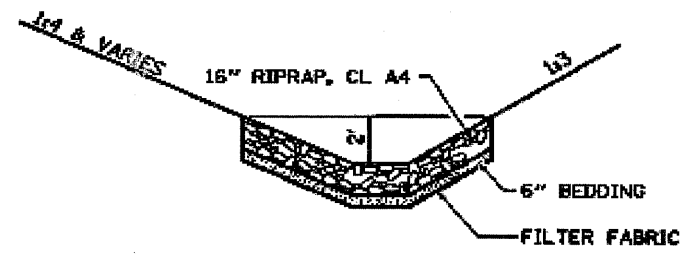


HMA DETAIL AT BUTT JOINTS

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.

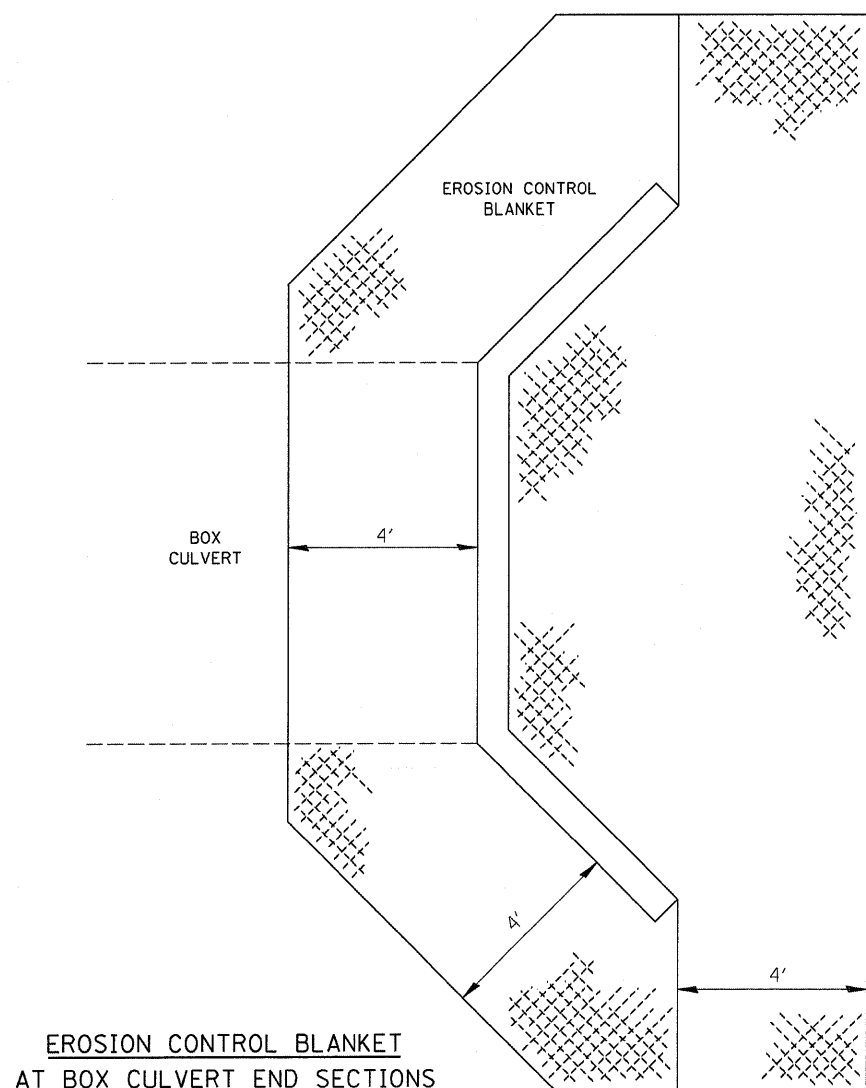


SECTION A-A FLANK DETAIL

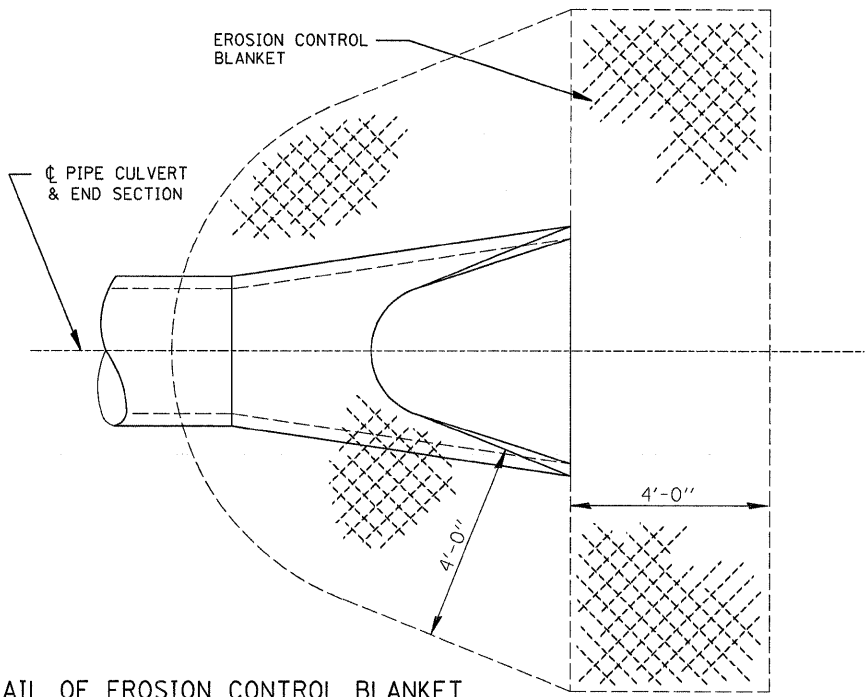


RIPRAP LINED DITCH DETAIL

FILE NAME = c:\pwork\pwidot\carpenter\dms30872	USER NAME = carpenterd district=adeti-sh3.dgn	DESIGNED - DB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS				F.A.P. RTE. 798	SECTION 107 BR, 108-BR, 108-BR-1	COUNTY FORD	TOTAL SHEETS 92	SHEET NO. 57
					SCALE: 1"=20'	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 66698		
					ILLINOIS FED. AID PROJECT								

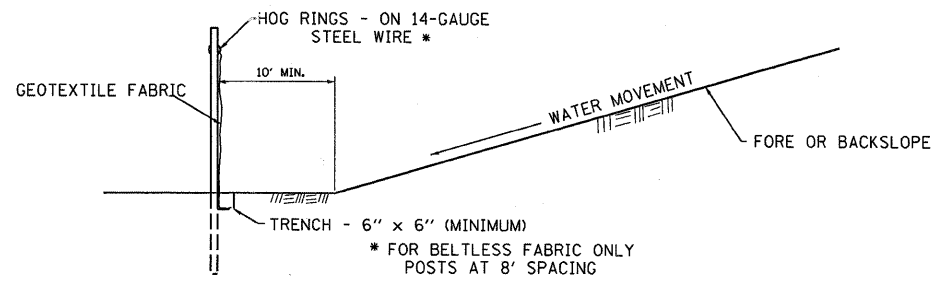
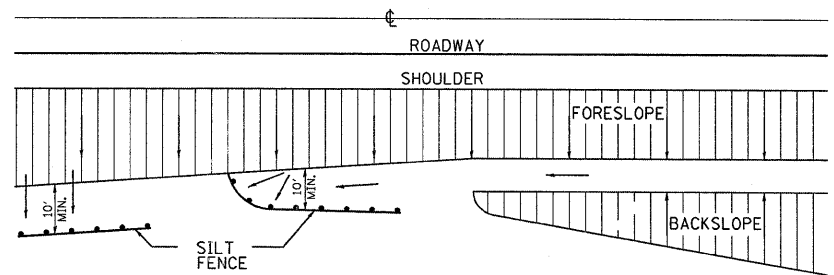


**EROSION CONTROL BLANKET
AT BOX CULVERT END SECTIONS**



**DETAIL OF EROSION CONTROL BLANKET
LINING AROUND END SECTION**

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



DETAILS OF SILT FENCE

**EROSION CONTROL DETAILS
FOR SILT FENCE**

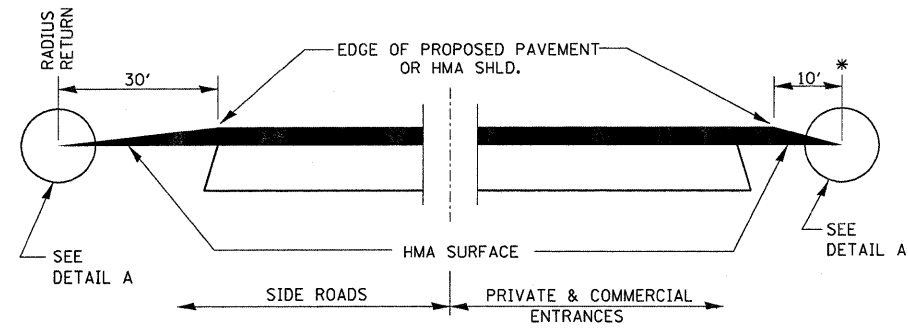
FILE NAME = c:\pwork\PIWIDOT\CARPENTERJ\dms30872	USER NAME = carpenterdj	DESIGNED - DB	REVISED -
	district-cadet1-sh1.dgn	DRAWN - RM/FZ/DK/NS	REVISED -
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	PLOT DATE = Aug 22, 2008 - 10:59:37 AM	DATE - AUGUST 2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

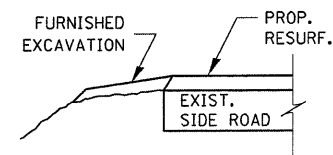
DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR, 108-BR, 108-BR-1	FORD	92	58
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

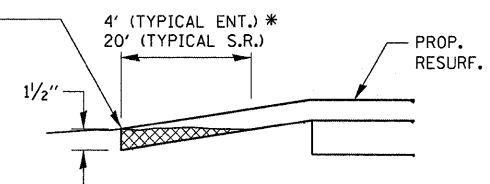


SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS

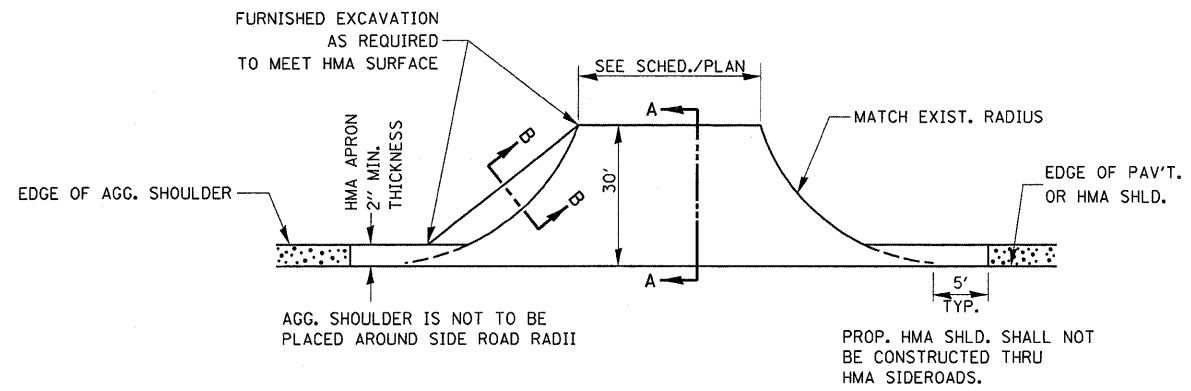


SECTION B-B

THE COST OF REMOVAL AT EXISTING HMA OR P.C.C. LOCATIONS SHALL BE PAID FOR PER SQ. YD. BY THE APPROPRIATE PAY ITEM. REMOVAL AT THE EXISTING AGG. LOCATIONS SHALL BE INCIDENTAL TO THE HMA. A-3 LOCATIONS SHALL BE FEATHER TAPERED.



DETAIL A



PLAN AT SIDE ROADS

FILE NAME =	USER NAME = carpenterdj	DESIGNED - DB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

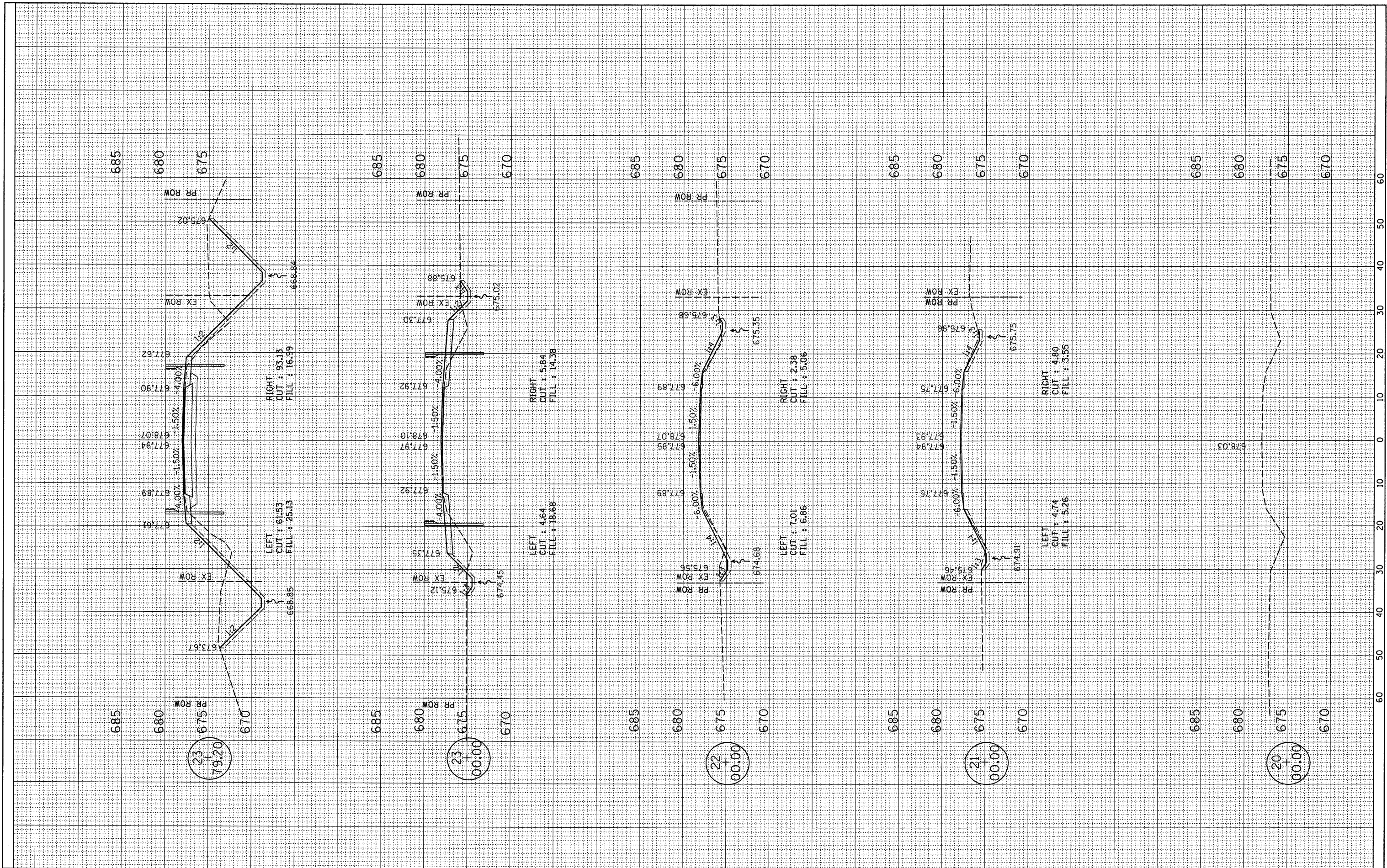
DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR, 108-BR, 108-BR-1	FORD	92	59
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
NO. _____	BY _____
NOTED	DATE
NO. _____	BY _____
PLotted	DATE
NO. _____	BY _____
Checked	DATE
NO. _____	BY _____
Template	DATE
NO. _____	BY _____
Areas	DATE
NO. _____	BY _____
Checked	DATE
NO. _____	BY _____

ORIGINAL SURVEY	DATE
NO. _____	BY _____
Plotted	DATE
NO. _____	BY _____
Checked	DATE
NO. _____	BY _____
Template	DATE
NO. _____	BY _____
Areas	DATE
NO. _____	BY _____
Checked	DATE
NO. _____	BY _____



FILE NAME =
 USER NAME = lindemanns
 DRAWN - RM/FZ/DK/NS
 CHECKED -
 DATE -

DESIGNED -
 DRAWN - RM/FZ/DK/NS
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION
 SN 027-2014 SHEET 1 OF 3**

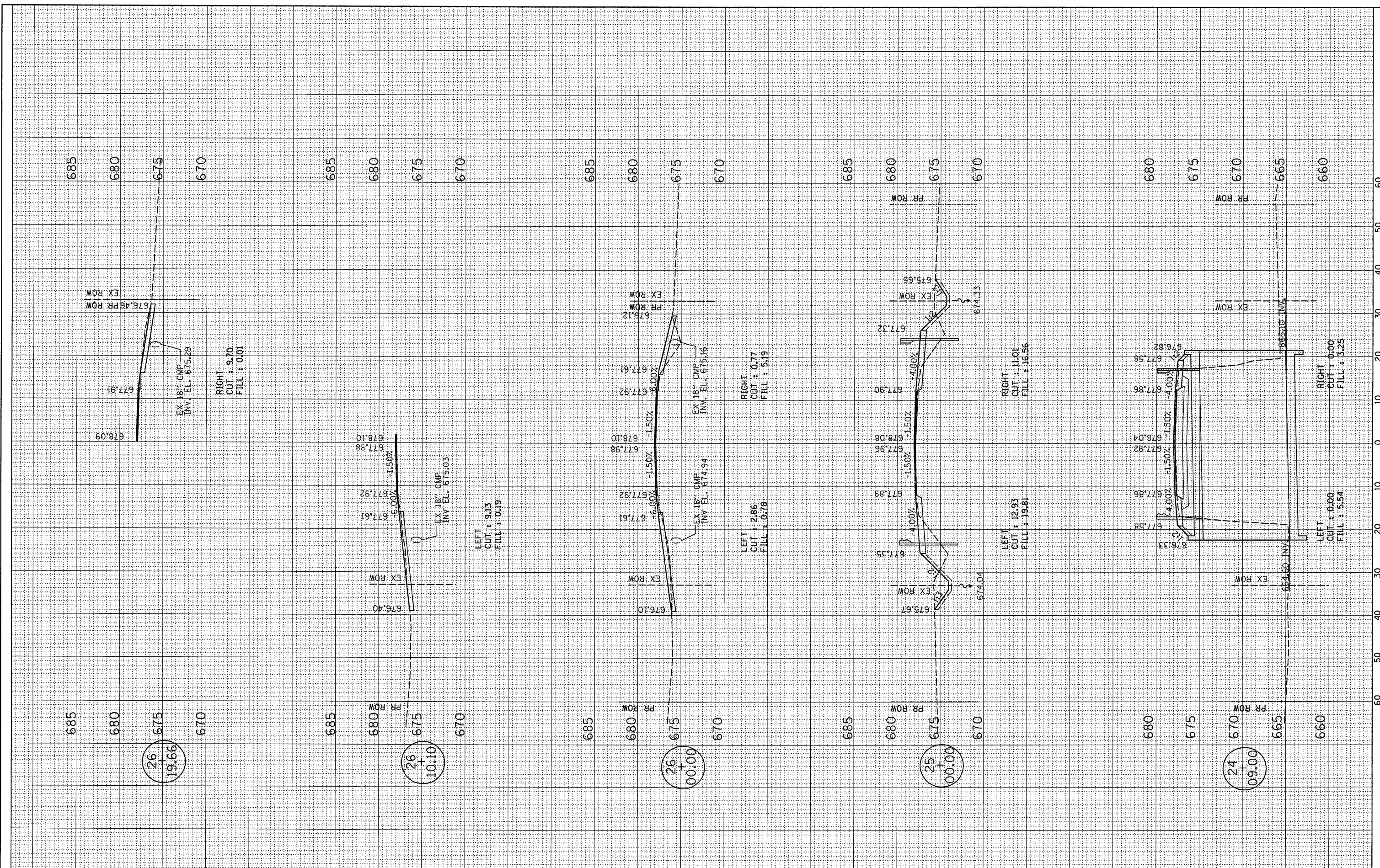
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 SCALE: 1"=5' (VERT)

SHEET NO. OF SHEETS STA. 20+00.00 TO STA. 23+79.20

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR, 108-BR, 108-BR-1	FORD	92	60
CONTRACT NO. 66698				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

FINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 DRAWN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 NO. _____

ORIGINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 DRAWN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 NO. _____



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c:\pw\work\PWIDOT\LINDEMANNS\dms38872\sscc-039.dgn		DRAWN - RM/FZ/DK/NS	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

PLOT SCALE = 10,0000' / IN.	DATE = Aug 28, 2008 - 07:35:22 AM
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION
 SN 027-2014 SHEET 2 OF 3**

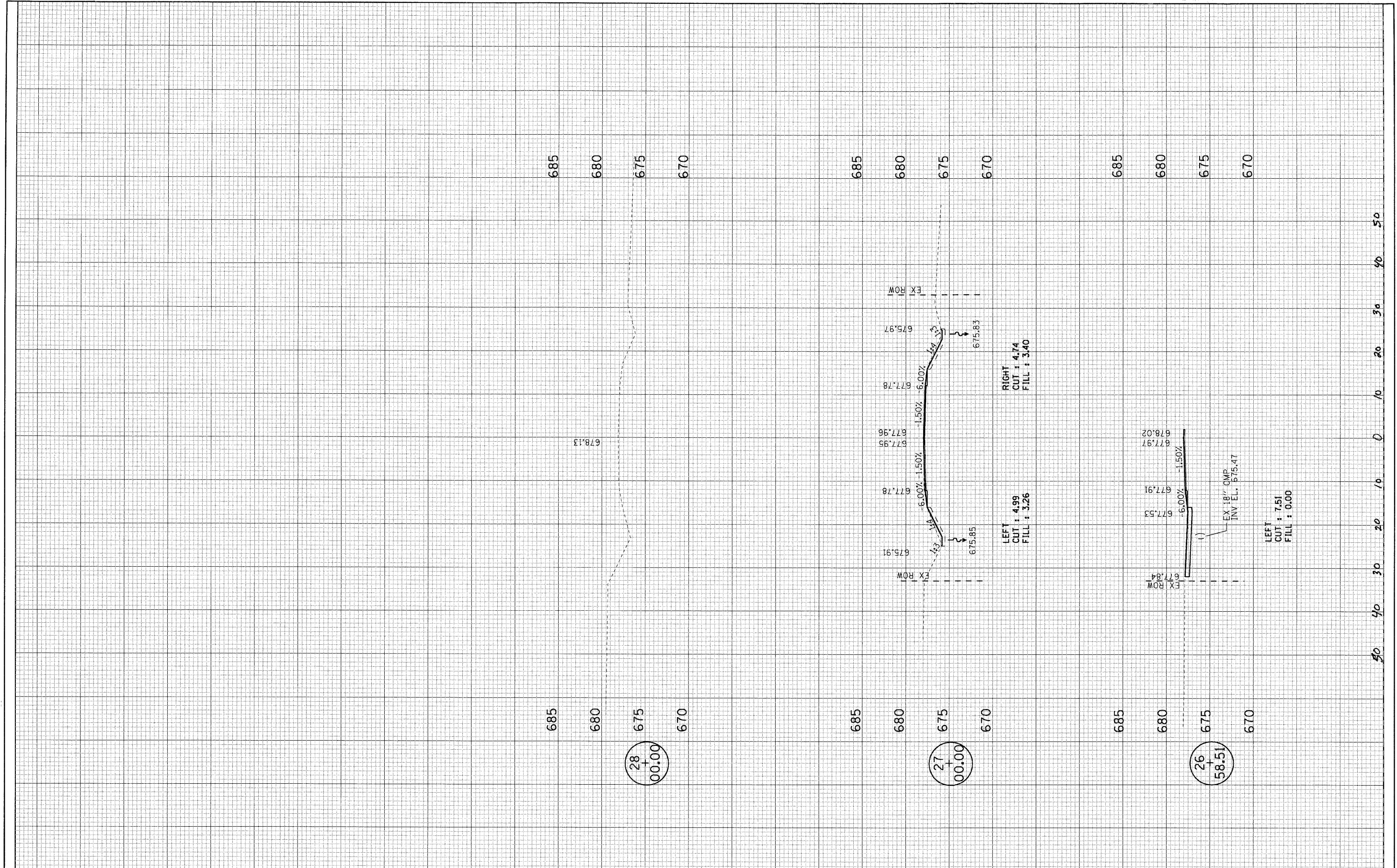
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 SCALE: 1"=5' (VERT)

SHEET NO. _____ OF _____ SHEETS STA. 24+09.00 TO STA. 26+58.51

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR, 108-BR, 108-BR-1	FORD	92	61
CONTRACT NO. 66698				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

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

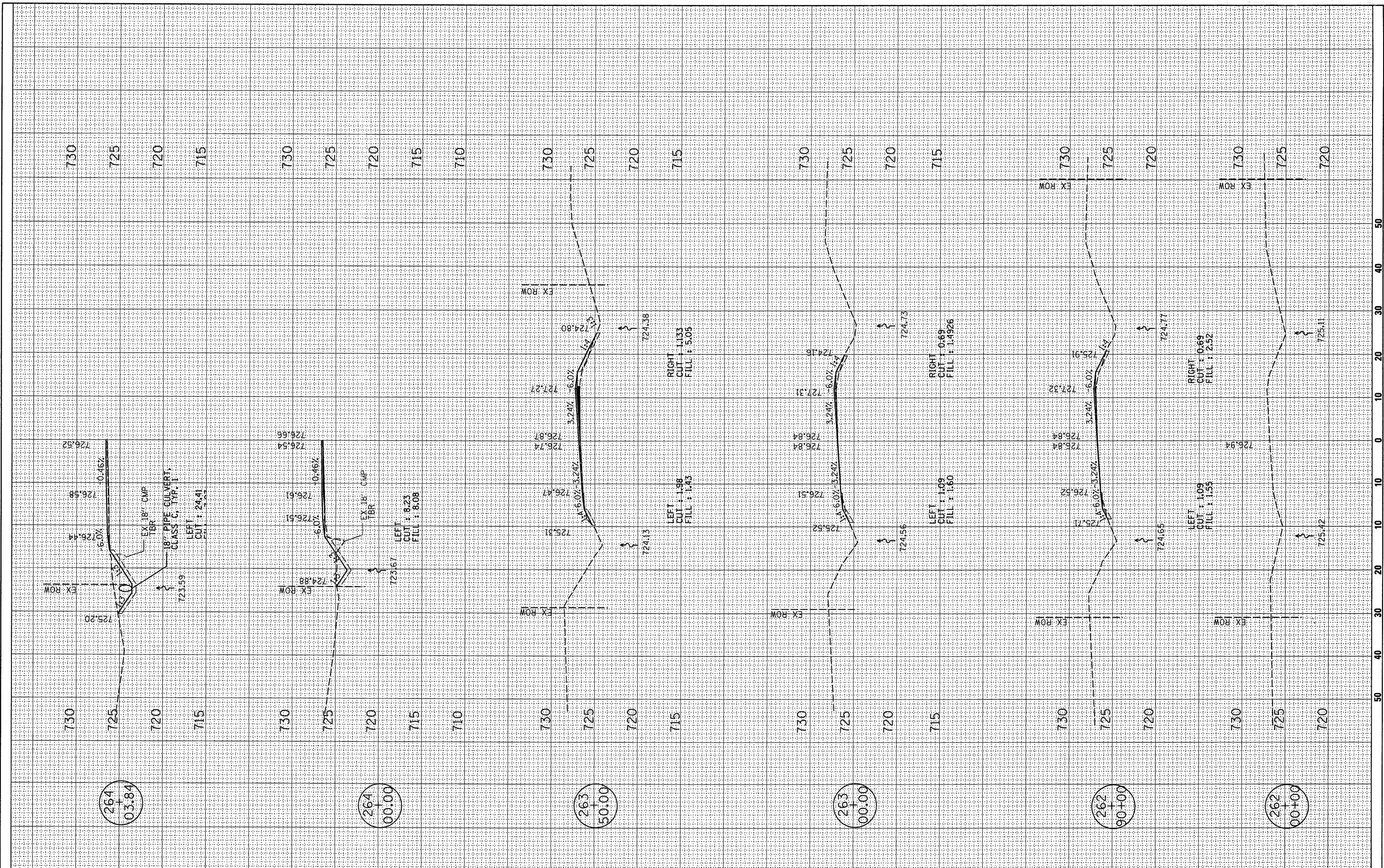
ORIGINAL SURVEY NOTE BOOK NO. SURVEYED PLOTTED TEMPLATE AREAS CHECKED BY DATE



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#FILEL*	PLOT SCALE = #SCALE*	DRAWN - RM/FZ/DK/NS	REVISED -		SCALE: 1"=10' (HOR)	SHEET NO. OF SHEETS	STA. 27+00.00 TO STA. 28+00.00	798	107-BR, 108-BR, 108-BR-1	FORD	92	62
	PLOT DATE = #DATE*	CHECKED -	REVISED -		SCALE: 1"=5' (VERT)							
		DATE -	REVISED -									
											CONTRACT NO. 66698	
											ILLINOIS FED. AID PROJECT	

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

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



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 PLOT DATE = Aug 28, 2008 - 07:32:57 AM

DESIGNED -	REVISED -
DRAWN - RM/FZ/DK/NS	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION
SN 027-2015 SHEET 1 OF 3**

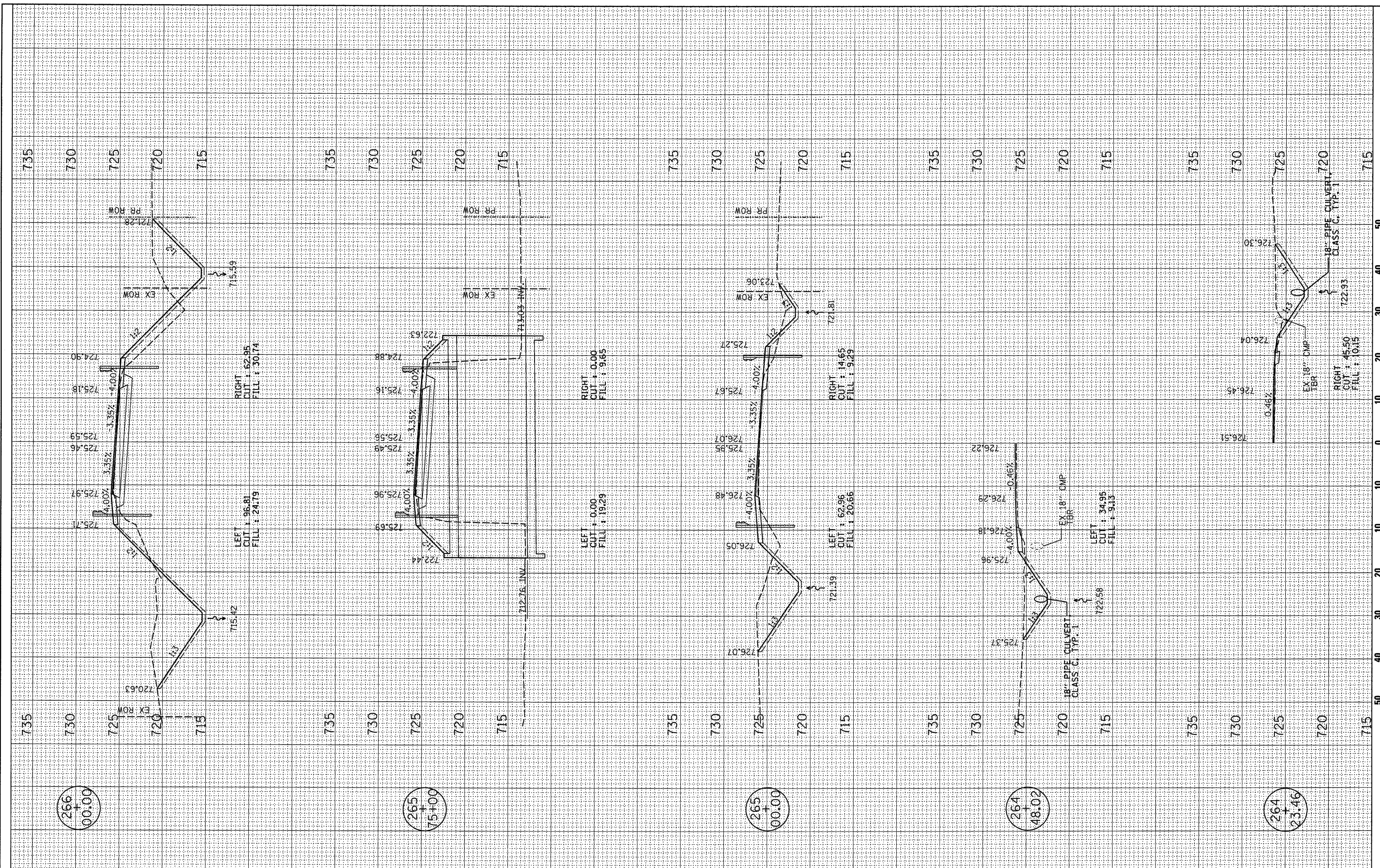
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SCALE: 1"=45' (VERT)

SHEET NO. OF SHEETS STA. 263+00.00 TO STA. 264+03.84

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR, 108-BR, 108-BR-1	FORD	92	63
CONTRACT NO. 66698				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

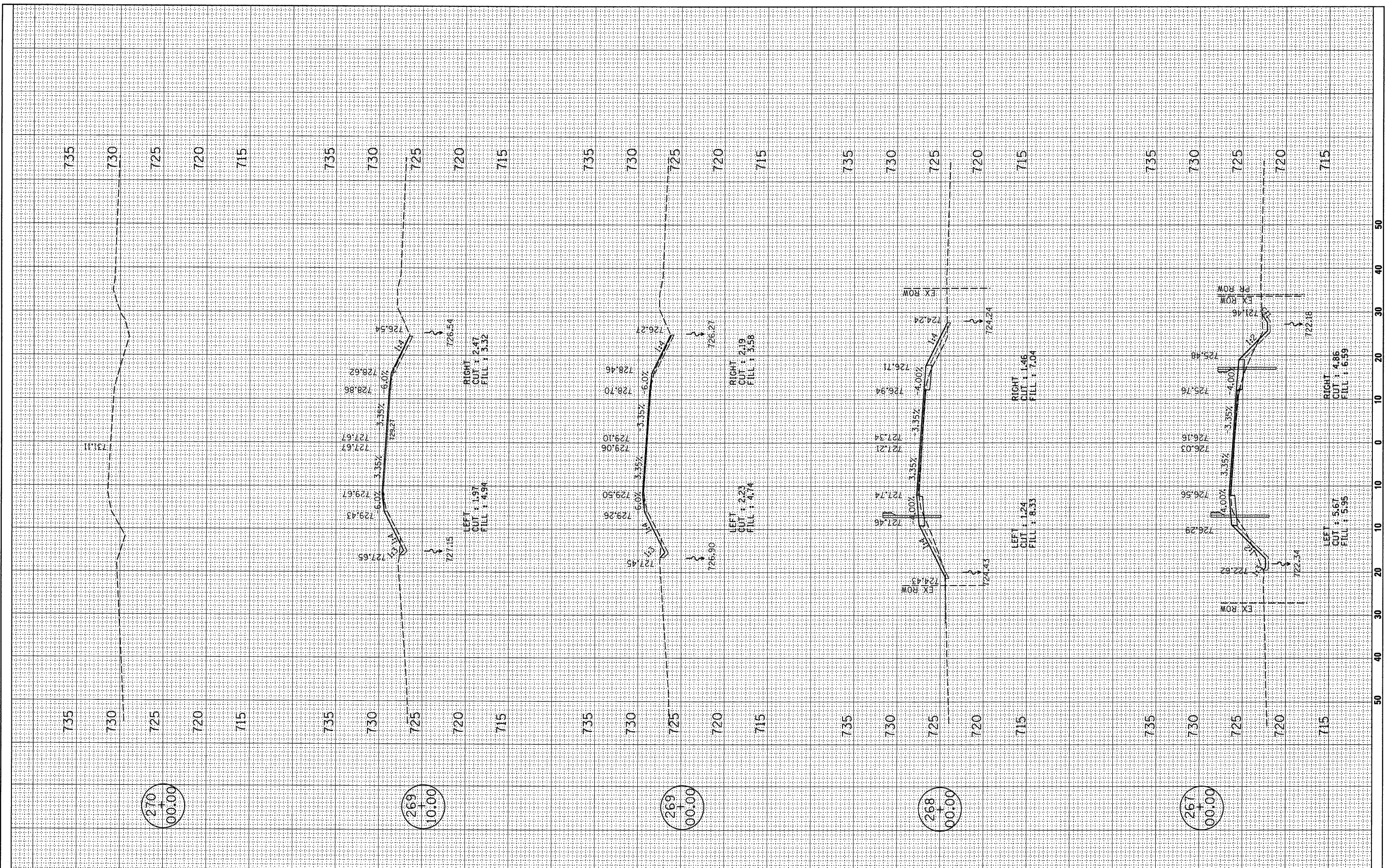
ORIGINAL SURVEY
 SURVEYED _____ BY _____ DATE _____
 PLOTTED _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS _____
 AREAS CHECKED _____
 NO. _____



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PLOT SCALE = 10.0000' / IN.	PLOT DATE = Aug 28, 2008 - 07:47:24 AM	CHECKED - DATE -	SCALE: 1"=10' (HOR) SCALE: 1"=15' (VERT)			SHEET NO. OF SHEETS	STA. 264+23.46 TO STA. 266+00.00	CONTRACT NO. 66698		ILLINOIS FED. AID PROJECT		

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

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



270
+
00.00

269
+
10.00

269
+
00.00

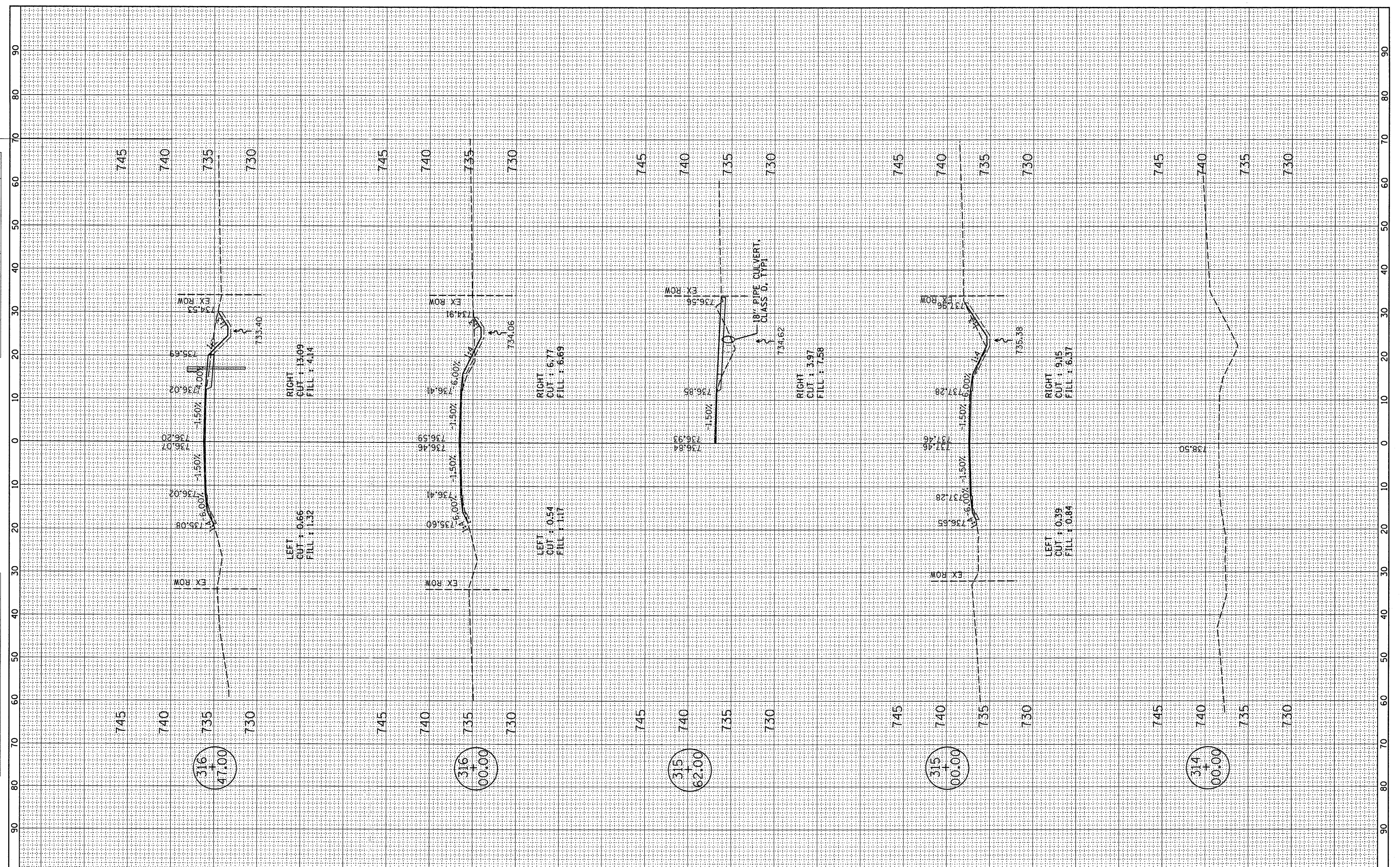
268
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00.00

267
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00.00

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ct:\pw\work\FWIDOT\LINDEMANMS\dms30072\wsec-030.dgn		DRAWN - RM/FZ/DK/NS	REVISED -			798	107-BR, 108-BR, 108-BR-1	FORD	92	65	
PLOT SCALE = 10,0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 66698					
PLOT DATE = Aug 28, 2008 - 07:32:42 AM		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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

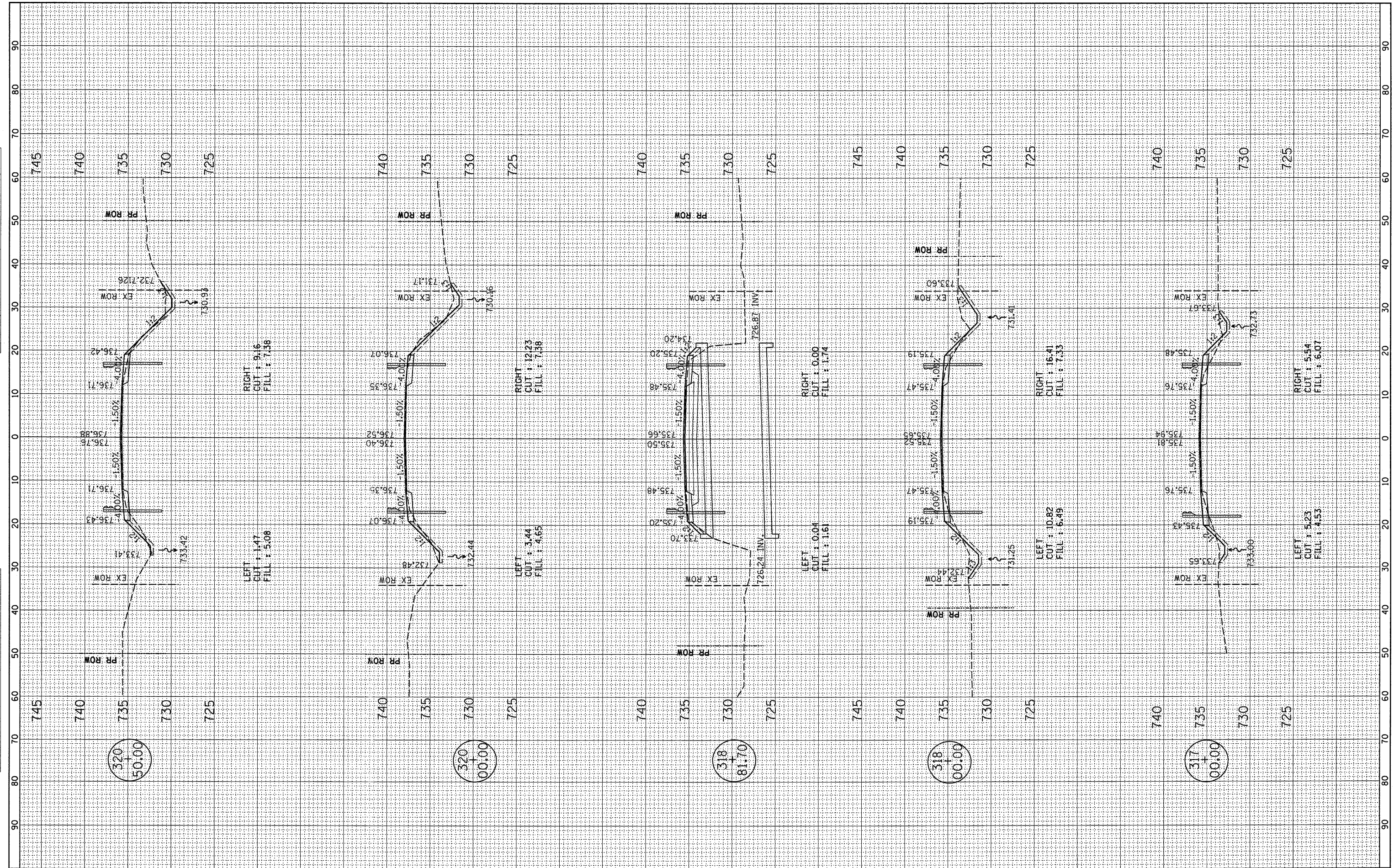
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 SURVEYED BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____
 NOTE BOOK NO.: _____
 TEMPLATE AREAS CHECKED: _____



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PLOT DATE = Aug 28, 2008 - 07:34:12 AM	DATE -	REVISED -	CONTRACT NO. 66698									
								FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FINAL SURVEY
 SURVEYED
 NOTE BOOK
 TEMPLATE
 AREAS
 CHECKED

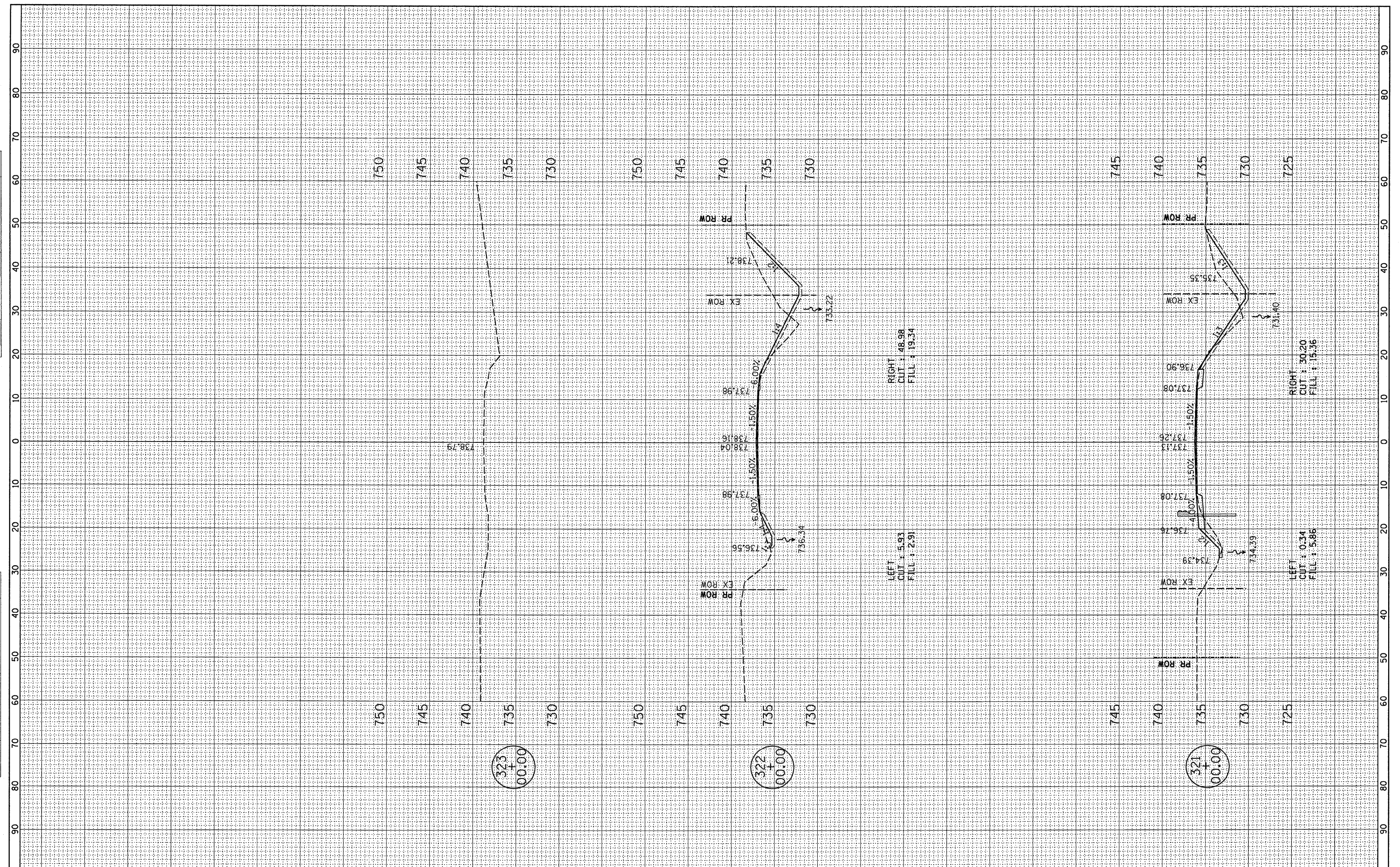
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 SURVEYED
 NOTE BOOK
 TEMPLATE
 AREAS
 CHECKED



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c:\pwork\PWIDOT\LINDEMANMS\dms30072\cso-031.dgn		DRAWN - RM/FZ/DK/NS	REVISED -			SCALE: 1"=10' (HOR)	SHEET NO.	OF	SHEETS	STA. 317+00.00	TO STA. 320+00.00	FED. ROAD DIST. NO.
PLOT SCALE = 1/8"=1' / IN.	CHECKED -	DATE -	REVISED -	SCALE: 1"=5' (VERT)							CONTRACT NO. 66698	
PLOT DATE = Aug 28, 2008 - 07:34:01 AM												

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

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



RIGHT
CUT : 48.98
FILL : 19.34

LEFT
CUT : 5.93
FILL : 2.91

RIGHT
CUT : 30.20
FILL : 15.36

LEFT
CUT : 0.34
FILL : 5.86

323
+
00:00

322
+
00:00

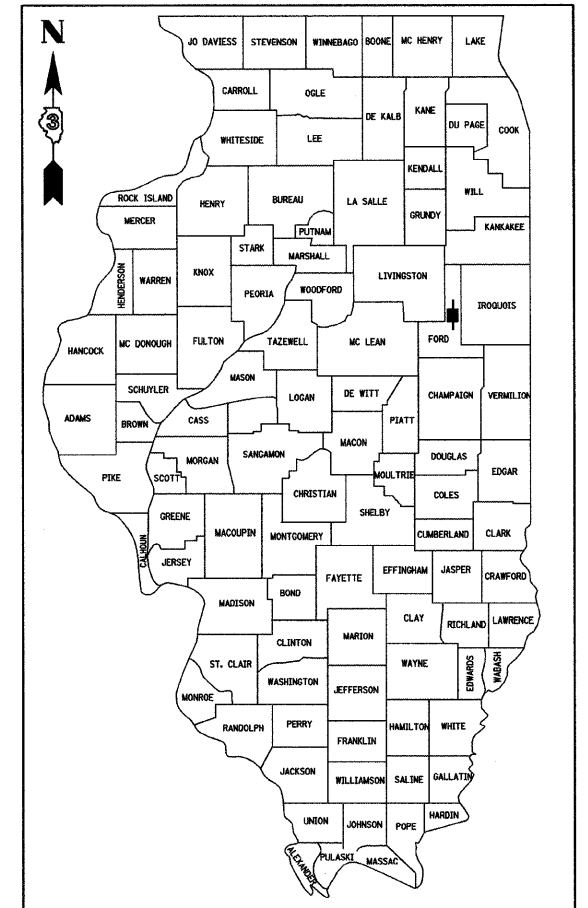
321
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00:00

FILE NAME =	USER NAME = lindemannms	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION SN 027-2016 SHEET 3 OF 3			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\p\WIDOT\LINDEMANMS\dms30072\Xsec-031.dgn		DRAWN - RM/FZ/DK/NS	REVISED -		SCALE: 1"=10' (HOR)	SHEET NO. OF SHEETS	STA. 321+00.00 TO STA. 323+00.00	798	107-BR, 108-BR, 108-BR-1	FORD	92	68
		CHECKED -	REVISED -		SCALE: 1"=15' (VERT)							
		DATE -	REVISED -									
												CONTRACT NO. 66698
												ILLINOIS FED. AID PROJECT

CONTRACT NO. 026-07			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
798	107 BR-1	FORD	92 69
ILLINOIS PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
FAP ROUTE 798 (IL RTE 115)
SECTION 107 BR-1
PROJECT
FORD COUNTY

P-93-039-03
D-93-051-04



LOCATION OF SECTION INDICATED THUS:

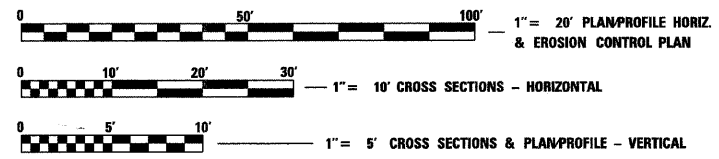
- INDEX OF SHEETS**
1. COVER SHEET
 2. GENERAL NOTES, INDEX & STDS. LIST
 3. BILL OF MATERIALS
 4. TYPICAL SECTIONS
 5. SCHEDULE OF QUANTITIES
 - 6-8. PLAN & PROFILE SHEETS
 9. DETOUR PLAN
 10. MISCELLANEOUS DETAILS
 11. EROSION & SEDIMENT CONTROL
 - 12-19. STRUCTURE PLANS
 20. EXISTING STRUCTURE PLANS
 - 21-23. ROADWAY CROSS SECTIONS
 24. CHANNEL CROSS SECTIONS

HIGHWAY STANDARDS
SEE SHEET 2

026-07
C - 93 - 096 - 04

STRUCTURE REPLACEMENT AT A DRAINAGE DITCH TRIBUTARY TO THE
NORTH FORK OF THE VERMILLION RIVER

R. 9 E., 3rd P.M.



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.

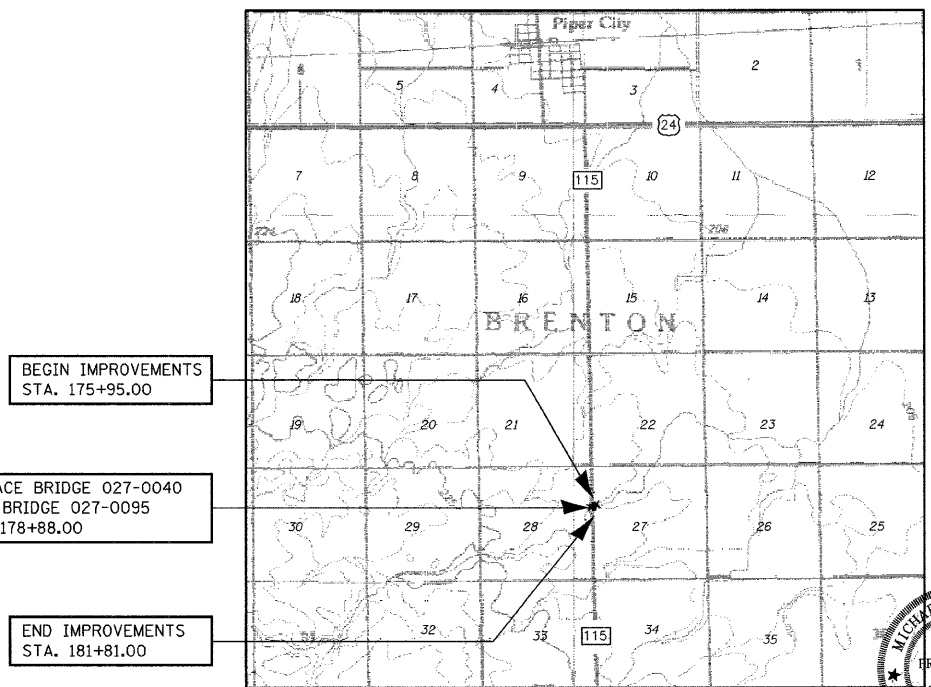
MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____

JULIE 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131

PROJECT ENGINEER: DAN DRAPER
UNIT CHIEF: PAT BRABOY
TOWNSHIP: BRENTON

CONTRACT NO. ~~56455~~ 66698



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 586.00 FT. = 0.111 MI.
NET LENGTH = 586.00 FT. = 0.111 MI.



MICHAEL J. BRYANT, P.E., S.E.
IL LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 44543 EXPIRES NOVEMBER 30, 2007
IL LICENSED STRUCTURAL ENGINEER
ILLINOIS NO. 5324 EXPIRES NOVEMBER 30, 2006

5/26/06
DATE

FUNCTION CLASSIFICATION	RURAL MINOR ARTERIAL
DESIGN SPEED	55 MPH
POSTED SPEED	55 MPH
ADT	800 (2007); 900 (2017)
P.V.	76.6%
S.U.	12.7%
M.U.	10.7%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20 _____

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	70
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

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 EARTH EXCAVATION.

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 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.

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

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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 OR THE COPY INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08	GAL / SQ YD OR
	0.375	GAL / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
TEMPORARY DITCH CHECKS	5	TONS AGGREGATE

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- EASTERN ILLINI ELECTRIC
- VERIZON NORTH, INC

STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 420401-06 BRIDGE APPROACH PAVEMENT
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RS OR WIDENING & RS PROJECTS
- 515001-02 NAME PLATE FOR BRIDGES
- 542301-01 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401 METAL END SECTION FOR PIPE CULVERTS
- 601101 CONCRETE HEADWALL FOR PIPE DRAINS
- 609006-03 BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
- 630001-07 STEEL PLATE BEAM GUARDRAIL
- 630201-05 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-06 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 701001-01 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 4.5 m (15') AWAY
- 701006-02 OFF-ROAD OPERATIONS 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
- 701011-01 OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS P 45 MPH
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-01 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS P 45 MPH
- 701901 TRAFFIC CONTROL DEVICES
- 780001-01 TYPICAL PAVEMENT MARKINGS

COMMITMENTS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 798 (IL 115) SEC 107 BR-1, FORD COUNTY GENERAL NOTES AND STANDARDS LIST
NAME	DATE	
		SCALE: VERT. DRAWN BY HORIZ. CHECKED BY DATE

PLOT DATE = Aug 25, 2009 8:38:46 AM
 PLOT SCALE = 52.912 / IN.
 REFERENCE = #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	71
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BILL OF MATERIALS			
CODE NO.	CONSTRUCTION CODE TYPE: ITEM	X020-2A	
		UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	275
20300100	CHANNEL EXCAVATION	CU YD	390
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	70.8
28200200	FILTER FABRIC	SQ YD	543
25000300	SEEDING, CLASS 3	SQ YD	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45
25100630	EROSION CONTROL BLANKET	SQ YD	2420
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150
28000300	TEMPORARY DITCH CHECKS	EACH	9
28100107	STONE RIPRAP, CLASS A4	SQ YD	543
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	27
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	288
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	320
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	194
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	44
44000100	PAVEMENT REMOVAL	SQ YD	301
48101200	AGGREGATE SHOULDERS, TYPE B	TON	18
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	546
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1
50105200	REMOVE EXISTING CULVERTS	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	120
50300100	FLOOR DRAINS	EACH	8
50500225	CONCRETE STRUCTURES	CU YD	73.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	162.8
50300260	BRIDGE DECK GROOVING	SQ YD	252
50300300	PROTECTIVE COAT	SQ YD	540
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	32910

BILL OF MATERIALS (CONTINUED)			
CODE NO.	CONSTRUCTION CODE TYPE: ITEM	X020-2A	
		UNIT	TOTAL QUANTITY
51201400	FURNISHING STEEL PILES HPI0X42	FOOT	766
51202305	DRIVING PILES	FOOT	766
51203400	TEST PILE STEEL HPI0X42	EACH	2
51500100	NAME PLATES	EACH	1
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	4
54213447	END SECTIONS 12"	EACH	2
54213450	END SECTIONS 15"	EACH	42
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	44
60100945	PIPE DRAINS 12"	FOOT	36
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	110
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	4
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	525
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	490
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1172
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	160
78200410	GUARDRAIL MARKERS, TYPE A	EACH	10
78200420	GUARDRAIL MARKERS, TYPE B	EACH	2
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	56
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	146
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
X7011005	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1
XX006675	FIELD TILE REPLACEMENT	FOOT	30

• SPECIALITY ITEM

PLOT DATE = Aug 25, 2009 8:52:00 AM
 PLOT SCALE = 50:1
 REFERENCE = #REF#

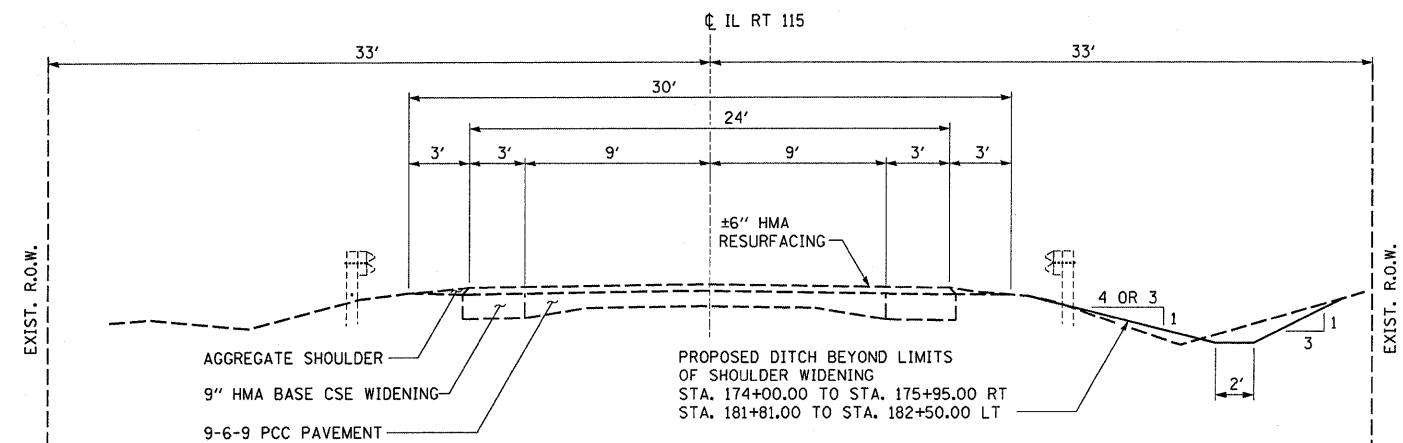
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAP ROUTE 798 (IL RTE 115)
 SEC 107 BR-1, FORD COUNTY

BILL OF MATERIALS

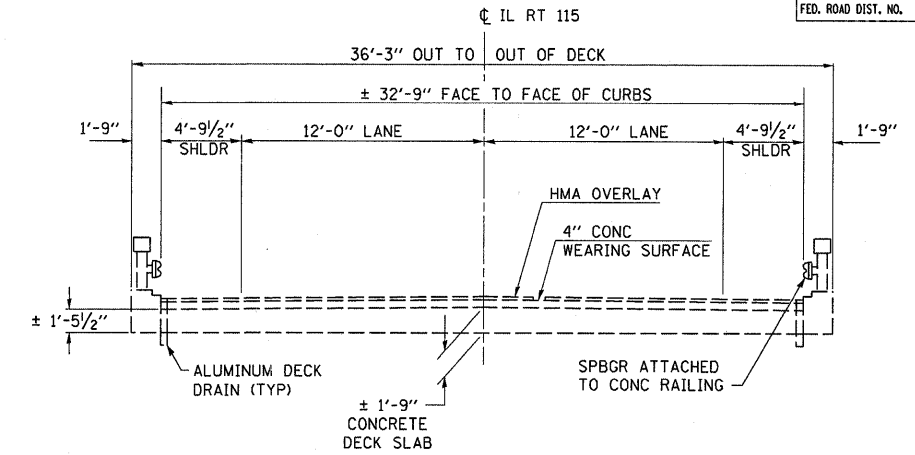
SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	72
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



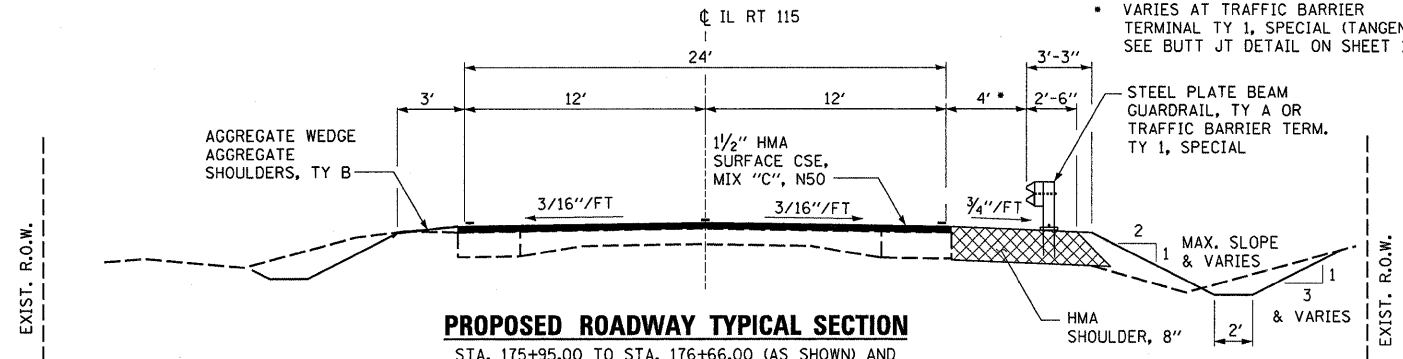
EXISTING ROADWAY TYPICAL SECTION

STA. 174+00 TO STA. 178+73 AND STA. 179+03 TO STA. 182+50



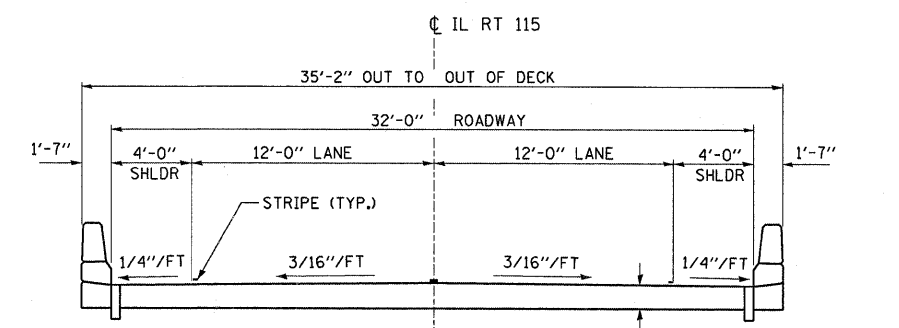
EXISTING BRIDGE CROSS SECTION

STA. 178+73 TO STA. 179+03



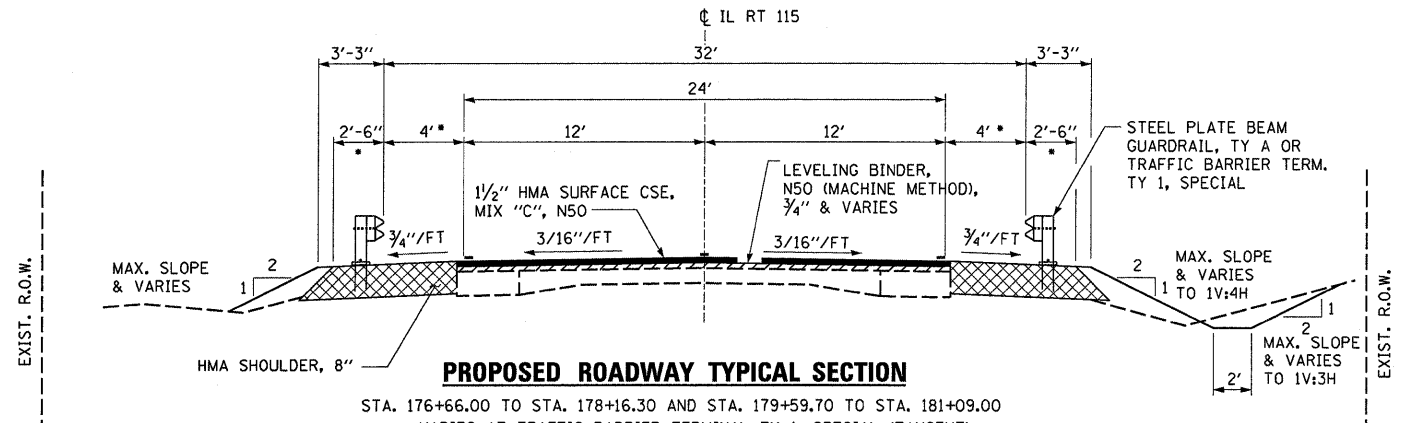
PROPOSED ROADWAY TYPICAL SECTION

STA. 175+95.00 TO STA. 176+66.00 (AS SHOWN) AND STA. 181+09.00 TO STA. 181+81.00 (SHOULDERS REVERSED TO THAT SHOWN)



PROPOSED BRIDGE CROSS SECTION

STA. 178+52.55 TO STA. 179+23.45



PROPOSED ROADWAY TYPICAL SECTION

STA. 176+66.00 TO STA. 178+16.30 AND STA. 179+59.70 TO STA. 181+09.00

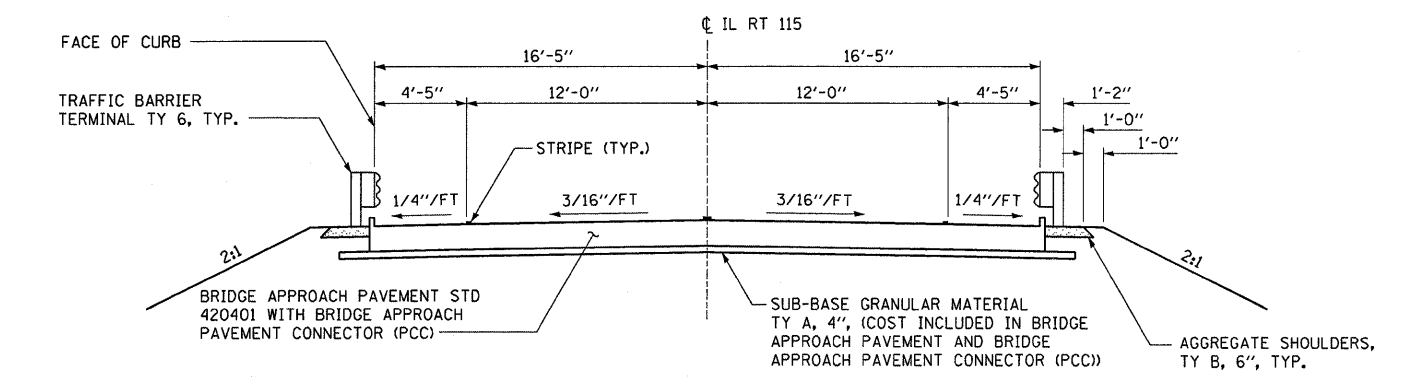
• VARIES AT TRAFFIC BARRIER TERMINAL TY 1, SPECIAL (TANGENT)

HMA MIXTURE REQUIREMENTS

	HMA LEVEL BINDER	HMA SURFACE	HMA SHOULDERS
PG GRADE	PG64-22	PG64-22	PG58-22
MAX % RAP ALLOWABLE **	25%	15%	50%
DESIGN AIR VOIDS	4.0% @ 50	4.0% @ N50	3.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 or IL 9.5	IL 19.0
FRICTION AGGREGATE		MIXTURE C	
DENSITY TEST METHOD	SATISFACTION OF THE ENGINEER	NUCLEAR / CORES	•

• MATERIAL SHALL BE COMPACTED TO 93.0 - 97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

** IF RAP OPTION IS DIFFERENT THAN LISTED ABOVE, THE PG GRADE MAY BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.



PROPOSED TYPICAL SECTION - BRIDGE APPROACH PAVEMENT

STA. 178+16.30 TO STA. 178+52.55 AND STA. 179+23.45 TO STA. 179+59.70

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 798 (IL RTE 115)
SEC 107 BR-1, FORD COUNTY

TYPICAL SECTIONS

SCALE: VERT. / HORIZ.
 DATE

DRAWN BY
 CHECKED BY

PLOT DATE = Aug 25, 2009 - 09:25:16 AM
 PLOT SCALE = 5/8" = 1' / IN.
 REFERENCE = #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	73
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	STRUCTURE EXCAVATION (CU YD)	STRUCTURE EXCAVATION MATERIAL ADJUSTED FOR SHRINKAGE (CU YD)	CHANNEL EXCAVATION (SUITABLE FOR FILL) (CU YD)	CHANNEL EXCAVATION (SUITABLE ADJUSTED FOR SHRINKAGE) (CU YD)	CHANNEL EXCAVATION (NOT SUITABLE FOR FILL) (CU YD)	EMBANKMENT (NOT A PAY ITEM) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	POROUS GRANULAR EMBANKMENT (SPECIAL) (CU YD)
NW CORNER CUTS AND FILLS	74	55						82	-27	
SW CORNER CUTS AND FILLS	73	55						40	15	
NE CORNER CUTS AND FILLS	47	35						42	-7	
SE CORNER CUTS AND FILLS	81	60						81	-21	
STRUCTURE EXCAVATION			120	90					90	
CHANNEL EXCAVATION					369	277	21		277	
POROUS GRANULAR EMBANKMENT										70.8
TOTAL	275	205	120	90	369	277	21	245	327	70.8

NOTE:
SHRINKAGE FACTOR = 0.75 FOR EARTH EXCAVATION & STRUCTURE EXCAVATION.
UNSUITABLE MATERIAL FROM CHANNEL EXCAVATION IS BETWEEN ABUTMENTS OF EXIST. STRUCTURE AND PROJECTED U.S. & D.S.

DRAINAGE STRUCTURE SCHEDULE

LOCATION	STONE RIPRAP CLASS A4 (SQ YD)	PIPE CULVERTS CLASS D, TY 1 15" (FOOT)	END SECTIONS 12" (EACH)	END SECTIONS 15" (EACH)	PIPE DRAIN 12" (FOOT)	TY B INLET STD 609006 (EACH)	FILTER FABRIC (SQ YD)
STATION TO STATION							
178+31 LT	4		1		9	1	4
178+47 RT	4		1		9	1	4
179+29 LT	4		1		9	1	4
179+45 RT	4		1		9	1	4
174+77.4, 23.3' RT BRIDGE (178+88)	527	42		2			527
TOTAL	543	42	4	2	36	4	543

GUARDRAIL SCHEDULE

LOCATION	STEEL PLATE BEAM GUARDRAIL TYPE A (FOOT)	TRAFFIC BARRIER TERM TY 6 (EACH)	TRAFFIC BARRIER TERM TY 1 SPECIAL (TANGENT) (EACH)	GUARDRAIL REMOVAL (FOOT)	GUARDRAIL MARKERS, TYPE A (EACH)	GUARDRAIL MARKERS, TYPE B (EACH)	TERMINAL MARKER - DIRECT APPLIED (EACH)
STATION TO STATION							
176+54.56	175						
177+26.75	87.5						
179+46.44	175						
179+61.75	87.5						
178+14.25		1					
178+29.56		1					
179+15.79		1					
179+31.10		1					
176+76.75			1				1
176+04.56			1				1
180+49.25			1				1
181+21.44			1				1
177+76				245			
177+22				245			
176+54 RT					1		
177+34 RT					1		
178+14 RT					1		
178+94 RT						1	
179+74 RT						1	
180+54 RT						1	
177+22 LT						1	
178+02 LT						1	
178+82 LT						1	
179+62 LT						1	
180+42 LT						1	
181+22 LT						1	
TOTAL	525	4	4	490	10	2	4

NOTE: COST OF REMOVAL OF EXISTING GUARDRAIL ATTACHED TO STRUCTURE, TO FIRST POST PAST BRIDGE, IS INCLUDED IN COST OF "REMOVAL OF EXISTING STRUCTURES"

SEEDING AND EROSION CONTROL SCHEDULE

LOCATION	SEEDING CLASS 3 (ACRE)	NITROGEN FERTILIZER NUTRIENTS (POUND)	PHOSPHORUS FERTILIZER NUTRIENTS (POUND)	POTASSIUM FERTILIZER NUTRIENTS (POUND)	EROSION CONTROL BLANKET (SQ YD)	TEMP EROSION CONTROL SEEDING (3 APPLICATIONS) (POUND)	TEMPORARY DITCH CHECKS (EACH)
STATION TO STATION							
175+95	0.1	9	9	9	484	30	
174+00	0.15	13.5	13.5	13.5	726	45	
179+15	0.15	13.5	13.5	13.5	726	45	
179+35	0.1	9	9	9	484	30	
175+78 RT							1
178+40 LT							1
177+00 RT							1
177+50 LT							1
178+52 RT							1
179+10 LT							1
179+50 RT							1
180+00 RT							1
180+50 LT							1
TOTAL	0.5	45	45	45	2420	150	9

APPLICATION RATE FOR FERTILIZERS = 90 LBS/ACRE

FIELD TILE REPLACEMENT SCHEDULE

LOCATION	FIELD TILE REPLACEMENT (FOOT)
STATION	
UNSPECIFIED	10
UNSPECIFIED	10
UNSPECIFIED	10
TOTAL	30

PIPE CULVERT REMOVAL SCHEDULE

LOCATION	REMOVE EXISTING CULVERTS (EACH)
STATION	
176+78	1
TOTAL	1

PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING-LINE 4" (FOOT)	PAINT PAVEMENT MARKING-LINE 6" (FOOT)
STATION TO STATION	WHITE (FOOT)	YELLOW SKIP DASH (FOOT)
175+95	1172	160
TOTAL	1172	160

PAVEMENT SCHEDULE

LOCATION	AGGREGATE SURFACE COURSE TYPE B (TON)	BITUMINOUS MATERIALS (PR CT) (GALLON)	HMA SURFACE REMOVAL BUTT JOINT (SQ YD)	PAVEMENT REMOVAL (SQ YD)	AGGREGATE SHOULDERS TYPE B (TON)	HMA SHOULDERS 8" (SQ YD)	HMA SURFACE CSE MIX "C", N50 (TON)	LEVELING BINDER (MACHINE METHOD), N50 (TON)
STATION TO STATION								
175+00 RT	27							
175+95		144					50	
179+59.70		144					50	
175+95			160					
181+21			160					
178+16.30				150.5				
179+03.20				150.5				
178+16.30					6			
179+23.45					6			
175+95 LT					3			
181+09 RT					3			
175+95 RT						167		
176+66 LT						106		
179+52± LT						106		
179+67.5± RT						167		
176+70								17
179+59.70								17
TOTAL	27	288	320	301	18	546	100	34

APPLICATION RATES FOR PRIME COAT = 0.08 GAL/SQ YD ON PAVEMENTS & 0.375 GAL/SQ YD ON AGGREGATE

BRIDGE APPROACH PAVEMENT SCHEDULE

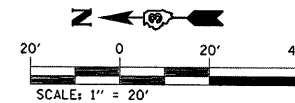
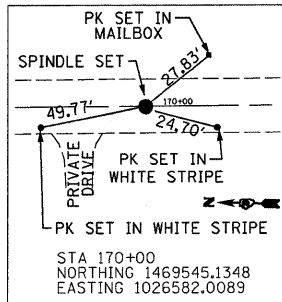
LOCATION	BRIDGE APPROACH PAVEMENT (SQ YD)	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) (SQ YD)	PROTECTIVE COAT (SQ YD)
STATION TO STATION			
178+22.55	97		114
179+23.45	97		114
178+16.30		22	
179+53.70		22	
TOTAL	194	44	228

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 798 (IL RTE 115) SEC 107 BR-1, FORD COUNTY SCHEDULE OF QUANTITIES
NAME	DATE	

SCALE: VERT. DATE DRAWN BY CHECKED BY

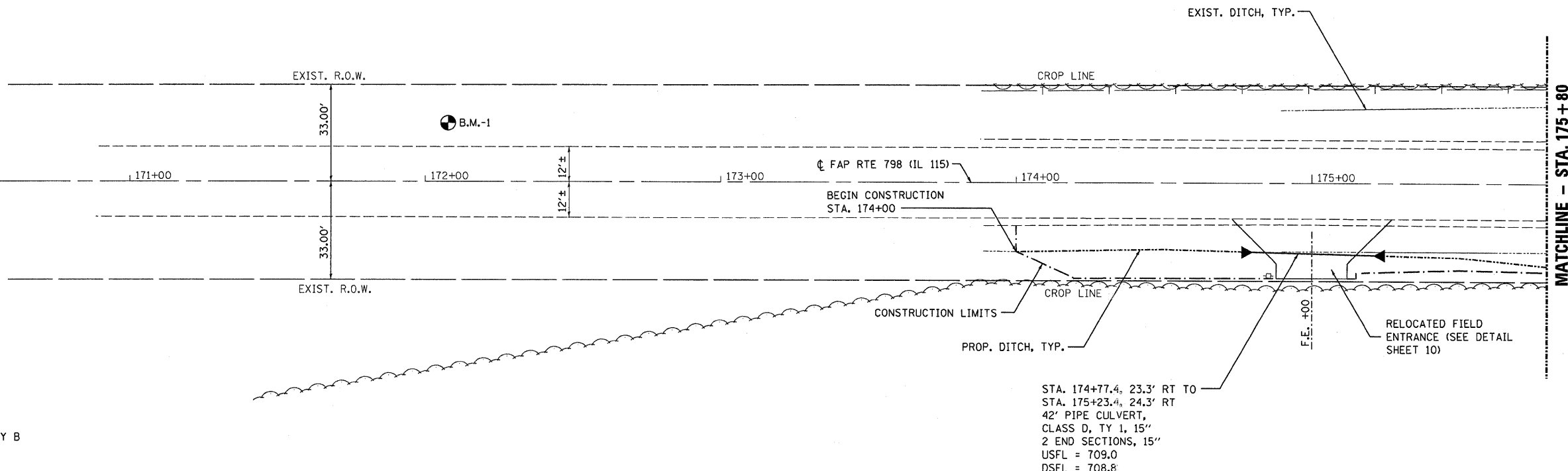
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	74
STA. 170+00		TO STA. 175+80		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CENTERLINE TIE



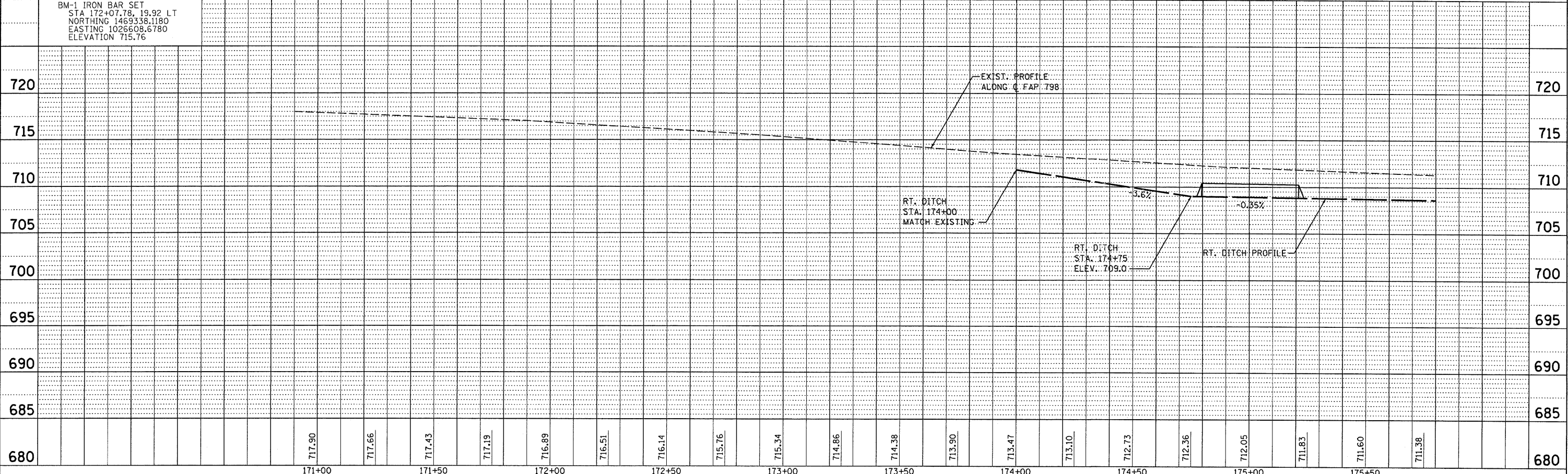
PLAN	DATE
BY	
DATE	
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DATE	

PROFILE	DATE
BY	
DATE	
DATE	
DATE	



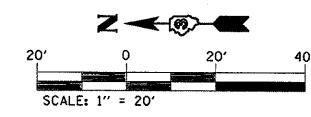
- LEGEND**
- HMA REMOVAL BUTT JT.
 - PAVEMENT REMOVAL
 - HMA SHOULDERS
 - AGGREGATE SHOULDERS, TY B
 - RIPRAP, CLASS A4

STA. 174+77.4, 23.3' RT TO
 STA. 175+23.4, 24.3' RT
 42' PIPE CULVERT,
 CLASS D, TY 1, 15"
 2 END SECTIONS, 15"
 USFL = 709.0
 DSFL = 708.8

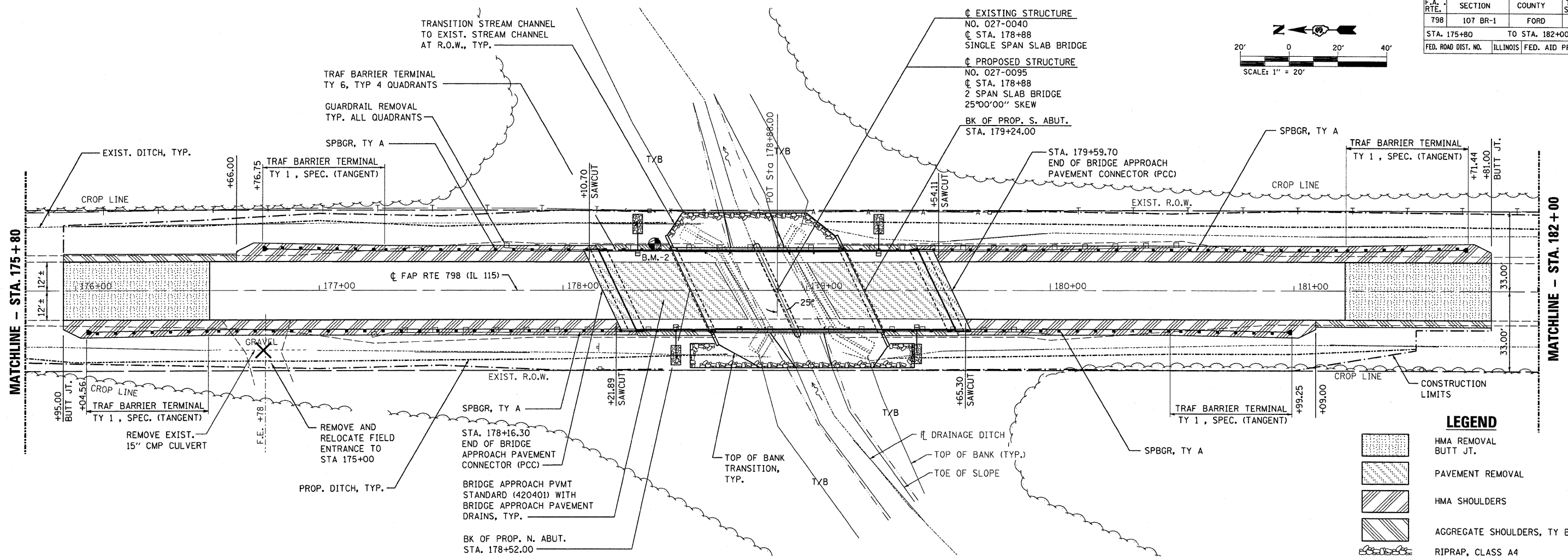


BM-1 IRON BAR SET
 STA 172+07.78, 19.92 LT
 NORTHING 1469338.1180
 EASTING 1026608.6780
 ELEVATION 715.76

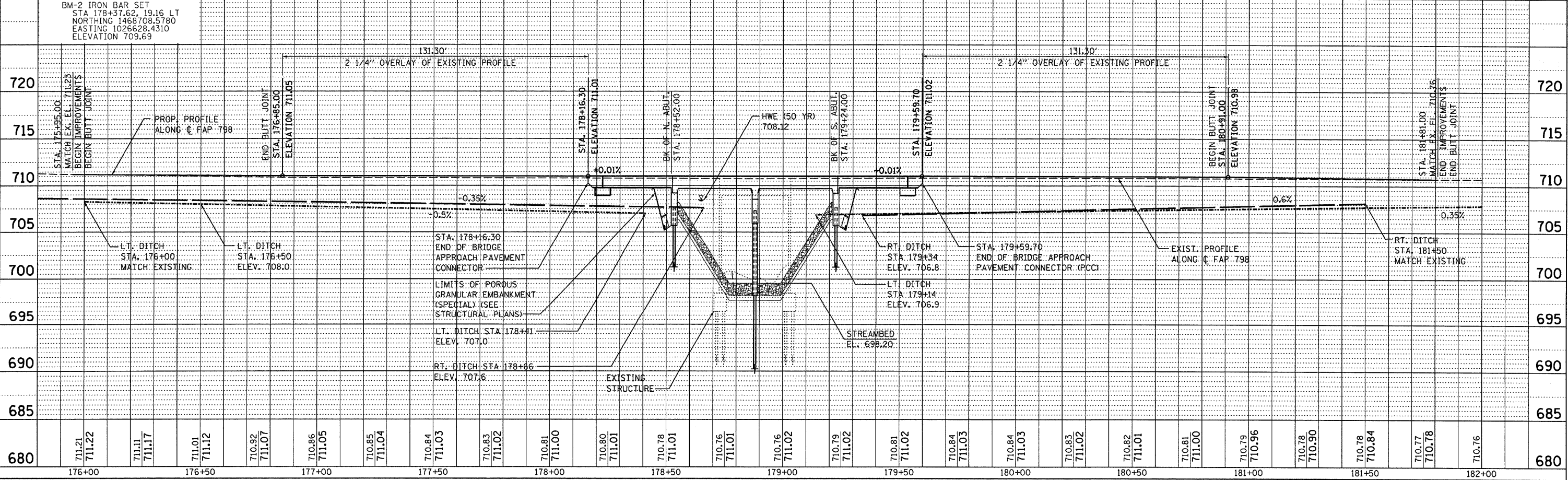
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	75
STA. 175+80		TO STA. 182+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	BY	
	CHECKED	
	BY	
	DATE	

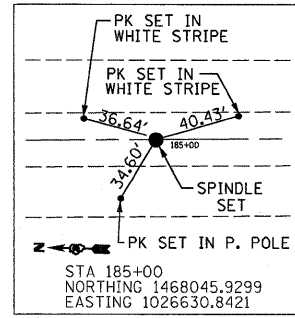


PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	BY	
	CHECKED	
	BY	
	DATE	

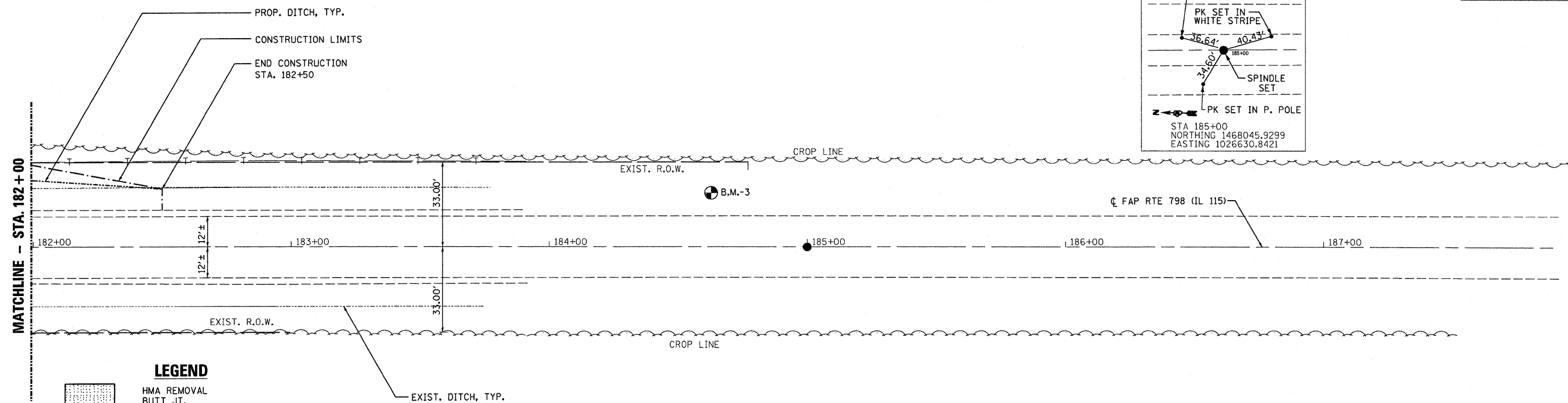


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	76
STA. 182+00		TO STA. 187+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CENTERLINE TIE

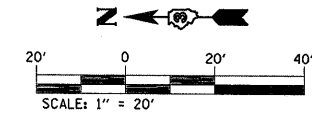


PLAN	SURVEYED	DATE
	ALLOWED	BY
	CHECKED	
	RT. OF WAY CHECKED	
	PAID FILE NAME	
	NO.	

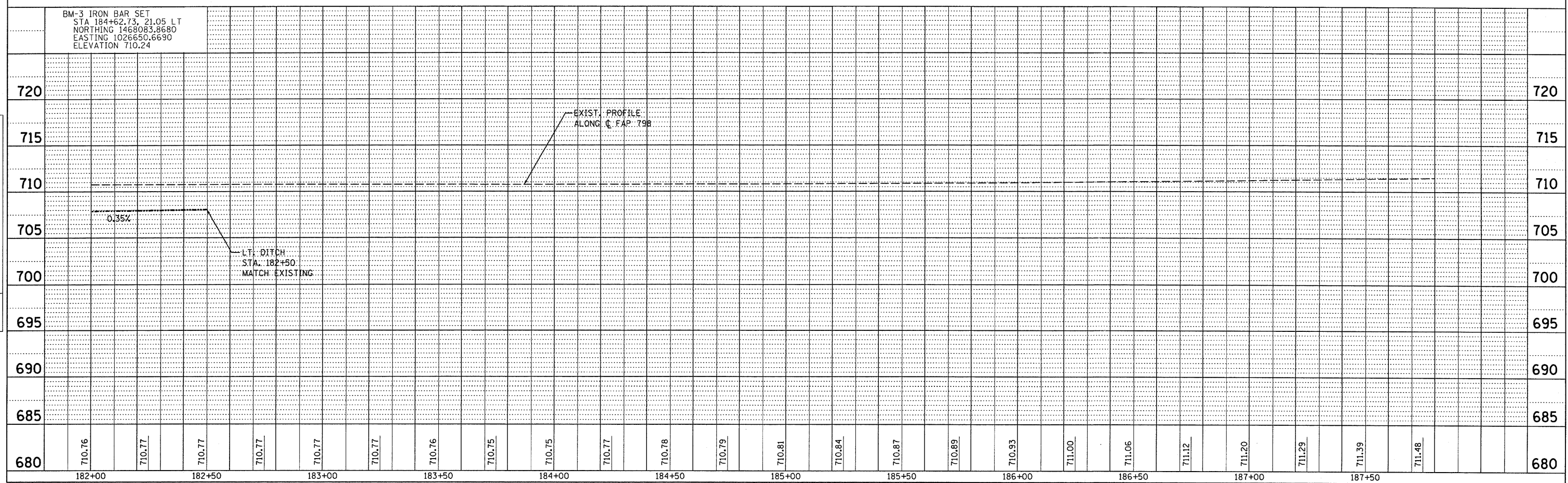


LEGEND

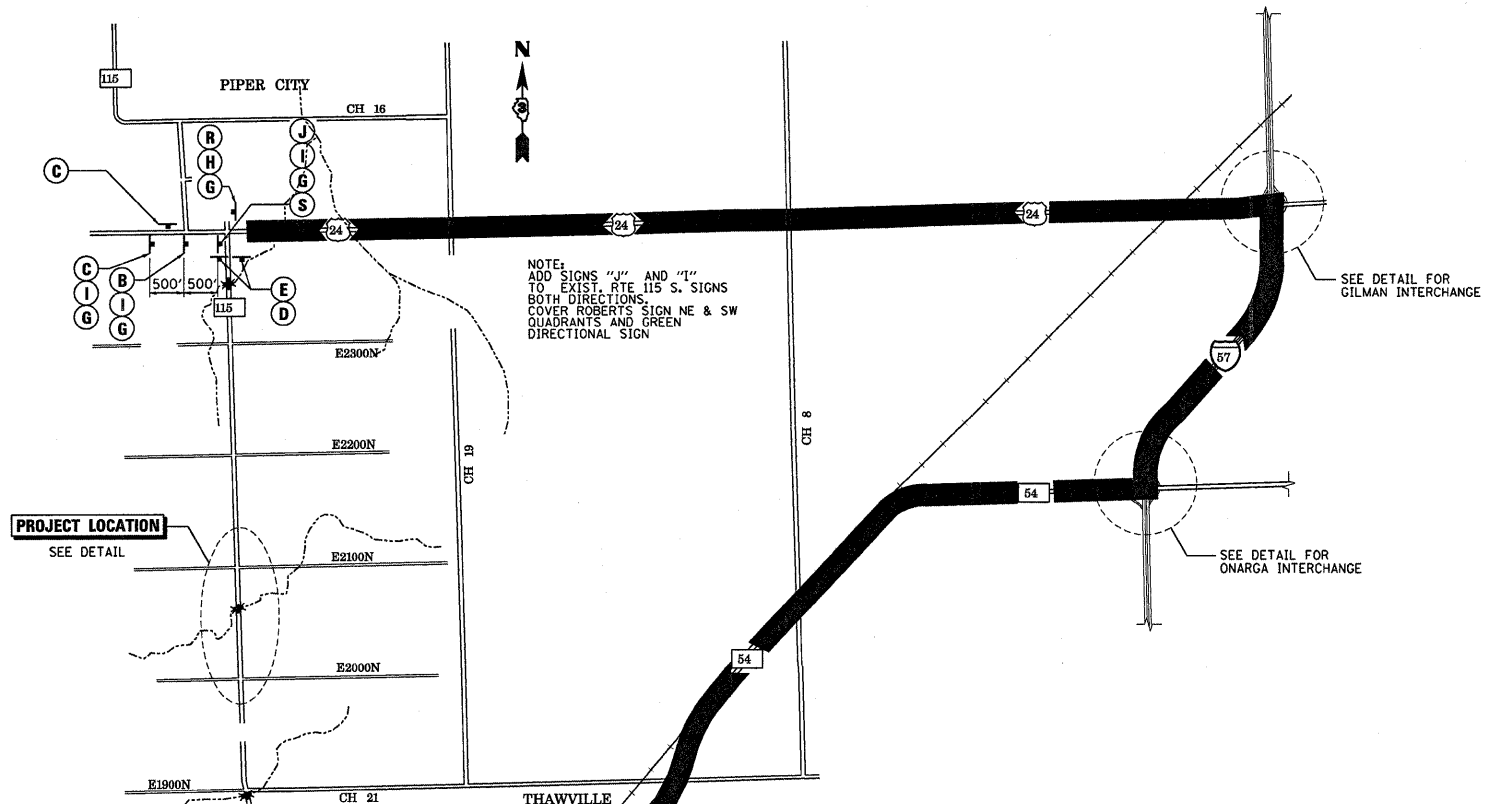
- HMA REMOVAL BUTT JT.
- PAVEMENT REMOVAL
- HMA SHOULDERS
- AGGREGATE SHOULDERS, TY B
- RIPRAP, CLASS A4



PROFILE	SURVEYED	DATE
	PROFILES	BY
	CHECKED	
	B.M. NOTED	
	STRUCTURE NOTATIONS GRD	
	NO.	

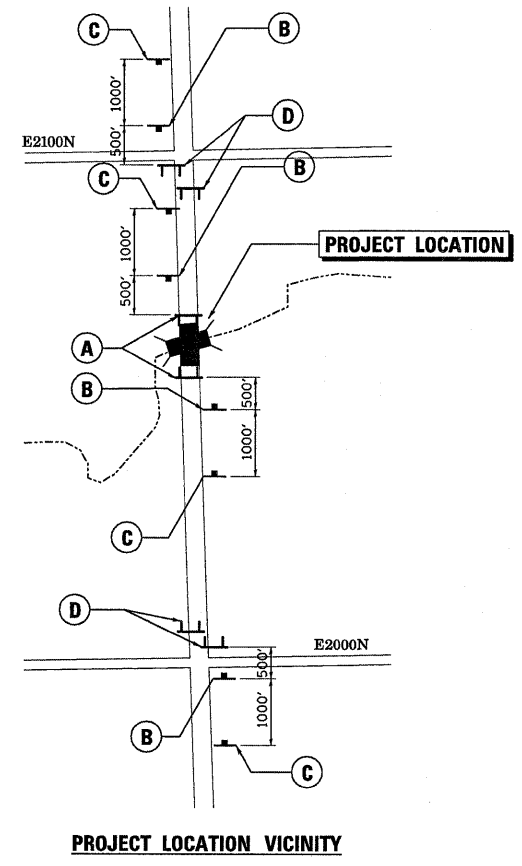
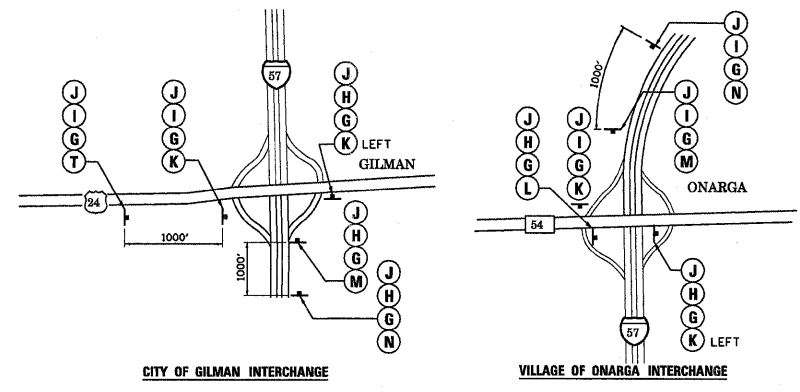


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	KANKAKEE	92	77
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE:
ADD SIGNS "J" AND "I"
TO EXIST. RTE 115 S. SIGNS
BOTH DIRECTIONS.
COVER ROBERTS SIGN NE & SW
QUADRANTS AND GREEN
DIRECTIONAL SIGN

NOTE:
ADD SIGNS "J" AND "H"
TO EXIST. RTE 115 N. SIGNS
BOTH DIRECTIONS.
COVER PIPER CITY SIGN
SE & NE QUADRANTS AND
GREEN DIRECTIONAL SIGN



LEGEND

- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- SIGNS ON PERMANENT SUPPORTS
- FLASHING LIGHT ABOVE SIGN
- 18"x18" ORANGE FLAG
- DETOUR ROUTE

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 OTHERWISE NOTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

ROAD CLOSED R11-2-4830 A	ROAD CLOSED 500 FT W20-3-4848 (FO) B	ROAD CLOSED AHEAD W20-3-4848 (FO) C	ROAD CLOSED TO THRU TRAFFIC R11-4-4830 D	BRIDGE OUT 1/2 MILES AHEAD LOCAL TRAFFIC ONLY M4-10-4818 R11-3-6030 E
DETOUR M4-10-4818 F	ILLINOIS 115 BLK/WH M1-5-3024 G	NORTH M3-1-2412 H	SOUTH M3-3-2412 I	
DETOUR M4-8-2412 J	→ M6-1-2115 K	← M5-1-2115 L	↗ M6-2-2115 M	↖ M5-2-2115 N
DETOUR AHEAD W20-2-4848 O	JCT M2-1-2115 P	END DETOUR M4-8A-2418 R	↑ M6-3-2115 S	→ M5-1-2115 T

REVISIONS	
NAME	DATE

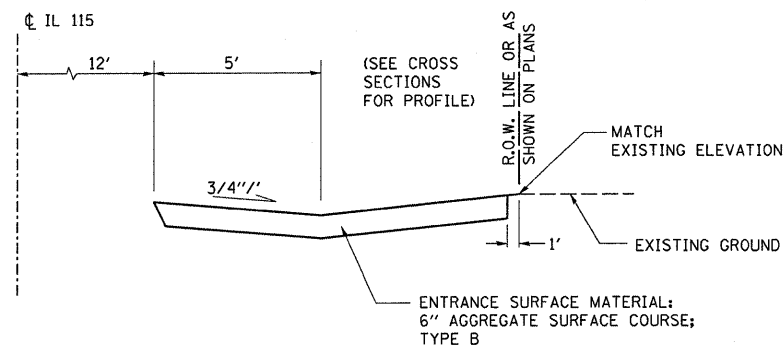
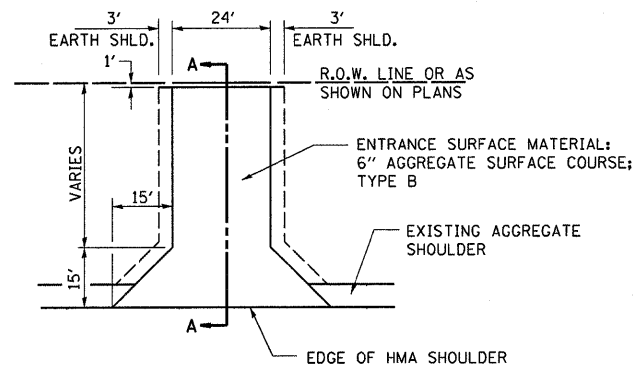
ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 798 (IL RTE 115)
SEC 107 BR-1, FORD COUNTY

DETOUR PLAN

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

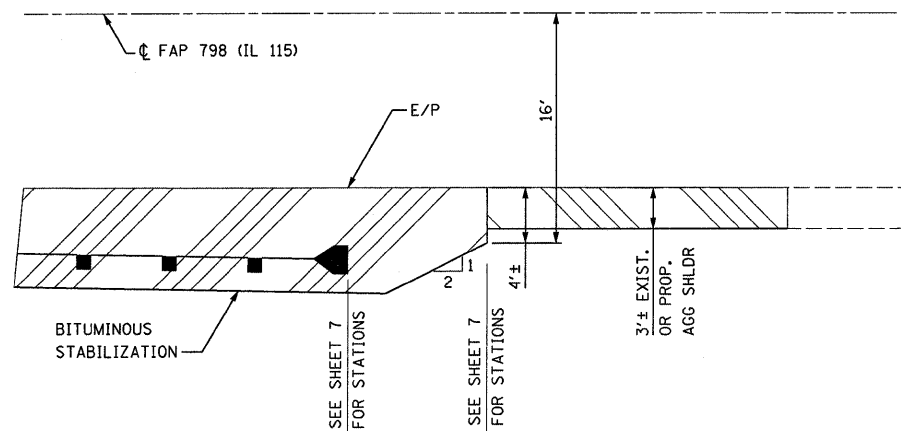
PLOT DATE : Aug 25, 2008 - 8:42:21 AM
 PLOT SCALE : 1/2"=100'
 REFERENCE : #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	78
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

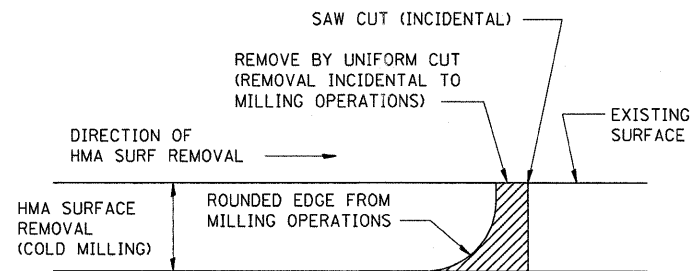


SECTION A-A

FIELD ENTRANCE DETAIL
STA. 175+00 RT

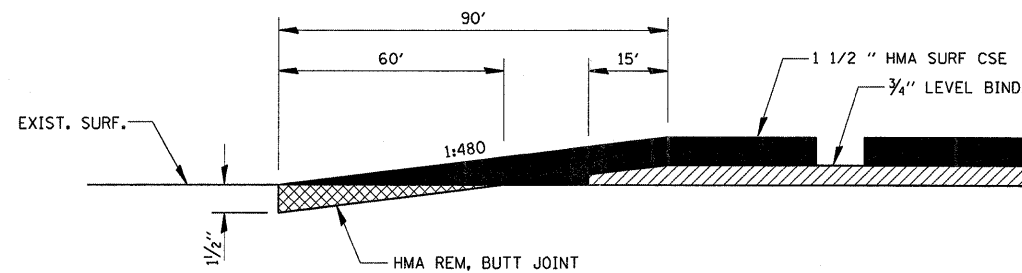


HMA SHOULDER STUB DETAIL
AT GUARDRAIL TERMINATION
MODIFIED STANDARD 630201

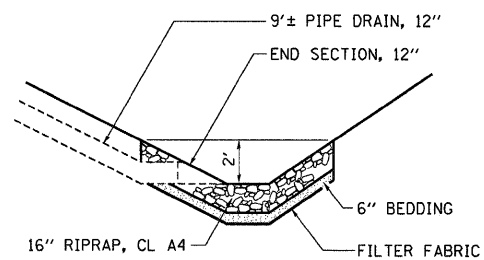


NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

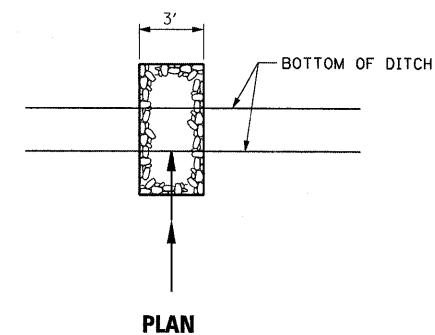
HMA DETAIL AT BUTT JOINTS



BUTT JOINT DETAIL



SECTION



PLAN

RIPRAP DETAIL AT BRIDGE APPROACH DRAIN OUTLET

(REFER TO STD. 609006)
STA. 178+31, 28' LT, R. ELEV. 707.1
STA. 178+47, 28' RT, R. ELEV. 707.7
STA. 179+29, 28' LT, R. ELEV. 706.9
STA. 179+45, 28' RT, R. ELEV. 706.9
(ADJUST STATIONS AS NEEDED TO MISS GUARDRAIL TERMINAL POST)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 798 (IL RTE 115)
SEC 107 BR-1, FORD COUNTY

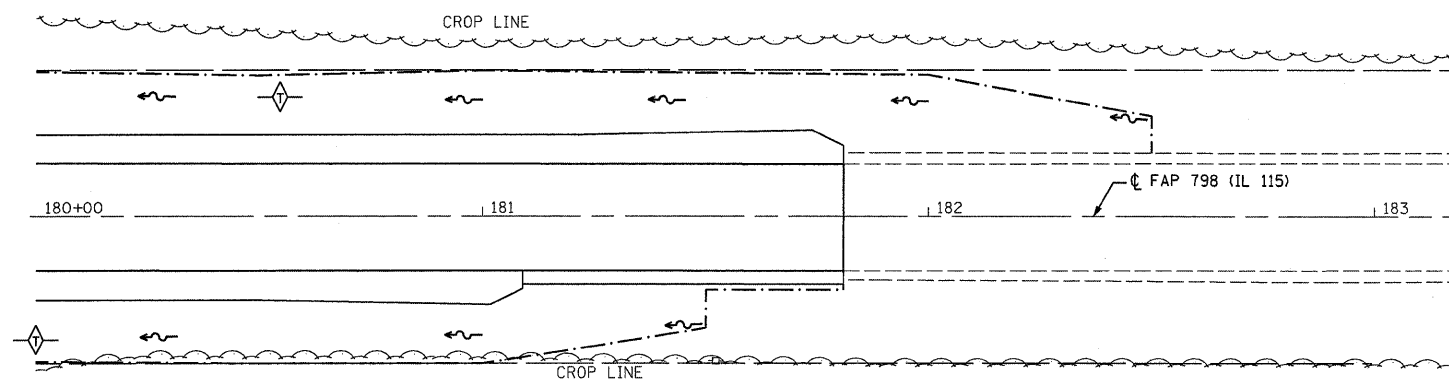
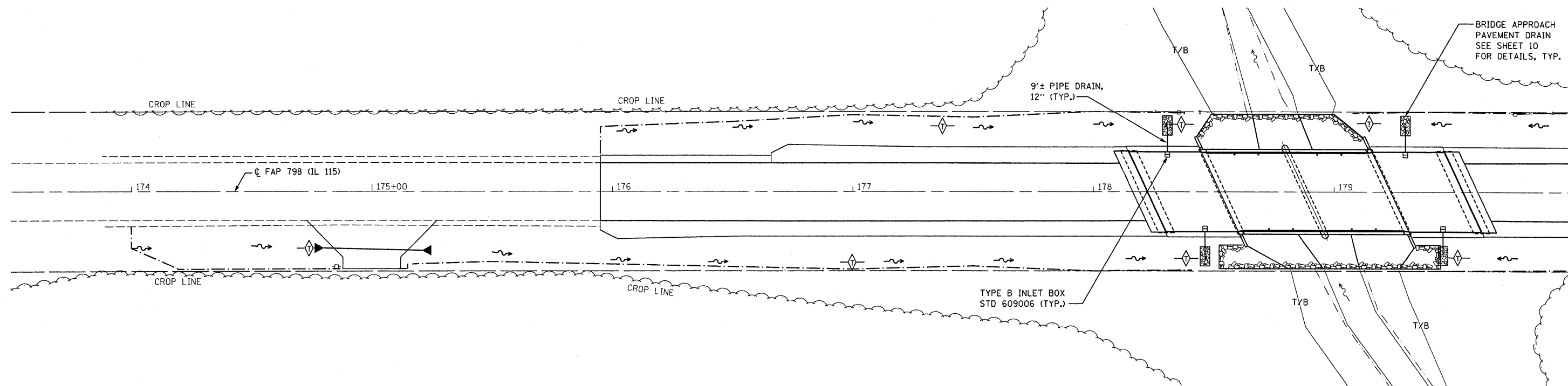
MISCELLANEOUS DETAILS

SCALE: VERT. / HORIZ. / DATE

DRAWN BY / CHECKED BY

PLOT DATE = Aug 25, 2009 09:21:03 AM
FILE NAME = I:\DOT\CORR\FERD1\dm-30872\IP-Misc\Det.dgn
PLOT SCALE = 52.9412 / IN.
REFERENCE = #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	79
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- CONSTRUCTION LIMITS
- ◇ TEMPORARY DITCH CHECK
- ~ PROPOSED DITCH
- ▒ RIPRAP, CLASS A4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP ROUTE 798 (IL RTE 115)
SEC 107 BR-1, FORD COUNTY
EROSION & SEDIMENT CONTROL

SCALE: VERT.
 HORIZ.
 DATE

DRAWN BY
 CHECKED BY

PLOT DATE = Aug 25, 2008 - 09:26:23 AM
 PLOT SCALE = 21.75' / IN.
 REFERENCE = #REF#

Bench Mark #2:
Iron Bar Set, Sta. 178+37.62, 19.16' Lt.
Elevation = 709.69

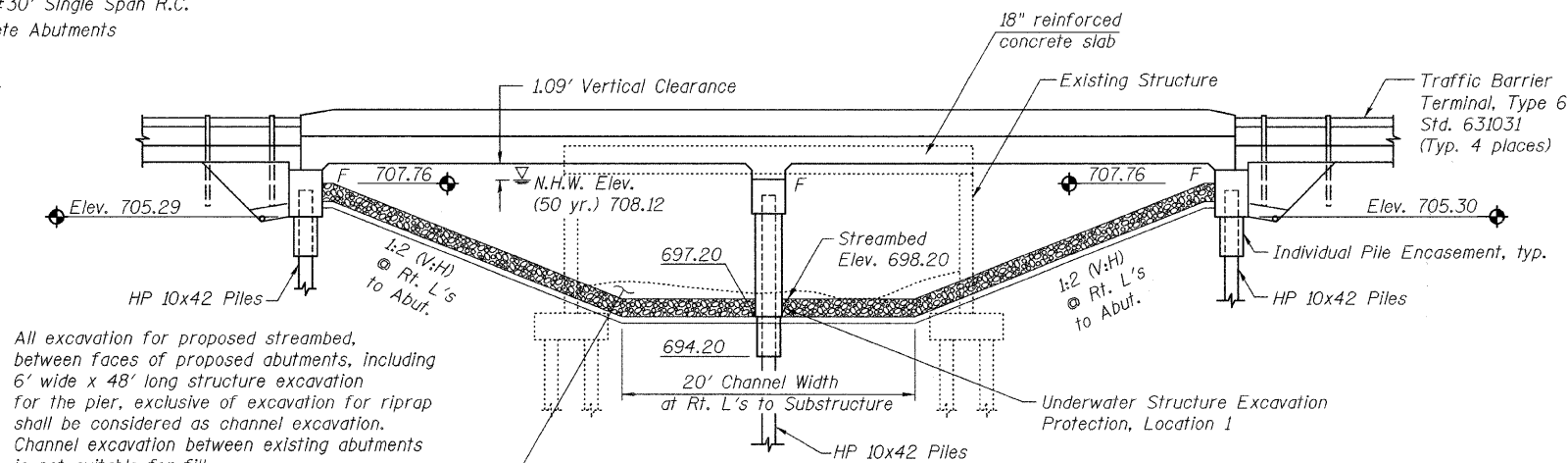
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAP 798	107 BR-1	FORD	92	80	8 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract # 66698

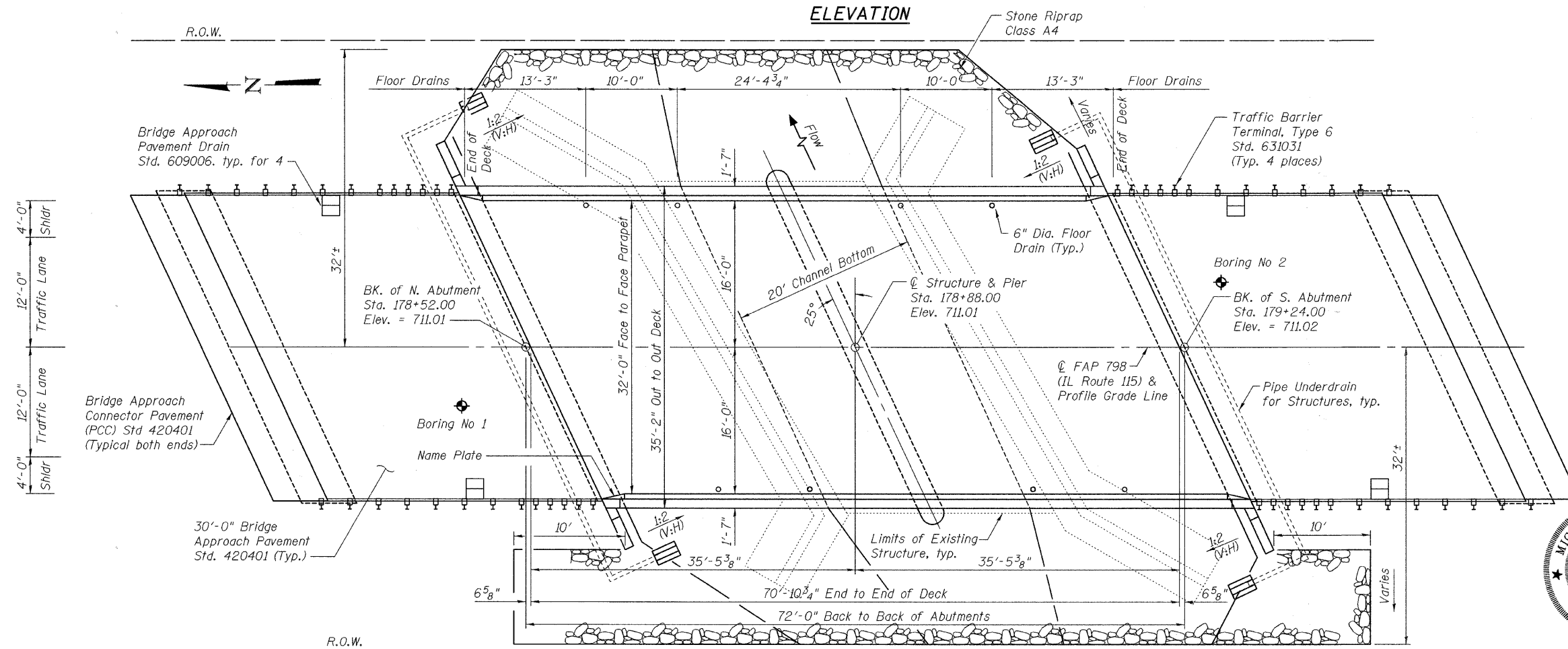
Existing Structure: S.N. 027-0040, Built in 1929 as a ±30' Single Span R.C.
Slab Bridge 36'-3" Wide (Out to Out) With Closed Concrete Abutments
Supported on Untreated Timber Piles.
Bridge Shall be Closed to Traffic During Reconstruction.

No Salvage



All excavation for proposed streambed, between faces of proposed abutments, including 6' wide x 48' long structure excavation for the pier, exclusive of excavation for riprap shall be considered as channel excavation. Channel excavation between existing abutments is not suitable for fill.

ELEVATION

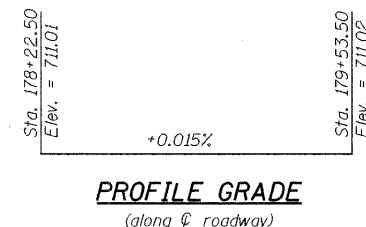


PLAN

WATERWAY INFORMATION

Drainage Area = 6.2 mi² Low Grade Elev. 710.76 ft. @ Sta. 182+00

Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head-Ft.		Headwater El.		
		Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
10	896	185	280	706.63	0.24	0.06	706.87	706.69
Design	50	1,353	219	708.12	0.58	0.14	708.70	708.26
Base	100	1,543	222	708.40	1.13	0.19	709.53	708.59
Max. Calc.	500	1,988	222	708.68	1.99	0.33	710.67	709.01



PROFILE GRADE
(along roadway)

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes, Details & Bill of Materials
3. Superstructure - Deck
4. Superstructure - Details
5. Substructure - Abutments
6. Substructure - Pier
7. Soil Borings
8. Soil Borings

STATION 178+88.00
BUILT 20-- BY
STATE OF ILLINOIS
FAP RTE 798 SEC 107 BR-1
LOADING HS20-44
STR. NO. 027-0095

LETTERING FOR NAME PLATE

Locate Name Plate at Northwest
Corner of Bridge (See Std. 515001)

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

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

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.045 g
Site Coefficient (S) = 1.2

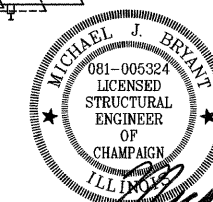
DESIGN STRESSES

FIELD UNITS

f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Michael J. Bryant (T)D
ENGINEER OF BRIDGES AND STRUCTURES

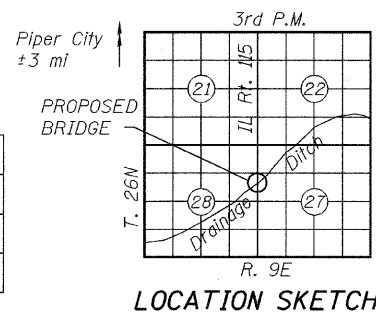


MICHAEL J. BRYANT, P.E., S.E.
IL LICENSED STRUCTURAL ENGINEER
ILLINOIS NO. 5324 EXPIRES NOVEMBER 30, 2006

5/24/06
DATE

GENERAL PLAN & ELEVATION
IL RTE 115 OVER DRAINAGE DITCH
TRIBUTARY TO NORTH VERMILION RIVER
FAP RTE 798 SECTION 107 BR-1
FORD COUNTY
STATION 178+88.00
S.N. 027-0095

DESIGNED MAJ/MSJ
CHECKED MJB
DRAWN MSJ
CHECKED WCC



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FAP 798	107 BR-1	FORD	92	81	2
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

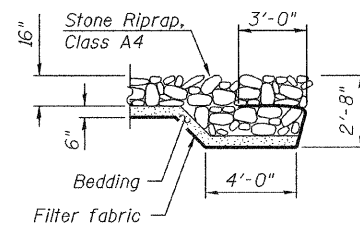
Contract # 66698

GENERAL NOTES

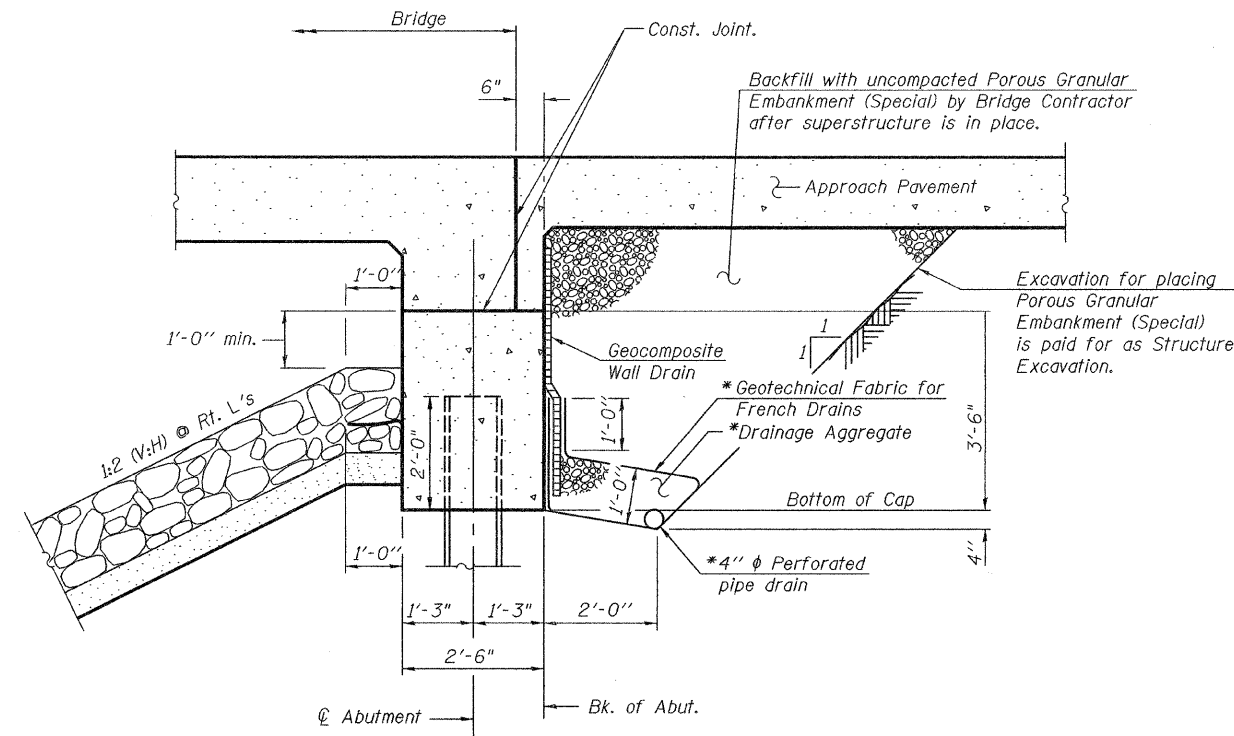
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach pavement.
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- All Construction joints shall be bonded.
- Excavation behind existing abutment walls shall be done before removing the existing superstructure.
- Slipforming of parapets is not allowed.
- The steel H piles shall be according to AASHTO M270 grade 50.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abut.	
Structure Excavation	Cu. Yd.		0	120	120
Driving Piles	Foot		260	506	766
Floor Drains	Each	8			8
Channel Excavation	Cu. Yd.			390	390
Porous Granular Embankment (Special)	Cu. Yd.			70.8	70.8
Concrete Structures	Cu. Yd.		45.5	28.3	73.8
Concrete Superstructure	Cu. Yd.	162.8			162.8
Bridge Deck Grooving	Sq. Yd.	252			252
Stone Riprap, Class A4	Sq. Yd.		527		527
Reinforcement Bars, Epoxy Coated	Pound	26690	2320	3900	32910
Furnishing Steel Piles HP 10x42	Foot		260	506	766
Test Pile Steel HP 10x42	Each		1	1	2
Filter Fabric	Sq. Yd.		527		527
Name Plates	Each	1			1
Removal of Existing Structures No. 4	Each	1			1
Protective Coat	Sq. Yd.	312			312
Geocomposite Wall Drains	Sq. Yd.			44	44
Pipe Underdrains for Structures, 4"	Foot			110	110
Underwater Structure Excavation Protection, Location 1	Each		1		1



RIPRAP FLANK DETAIL

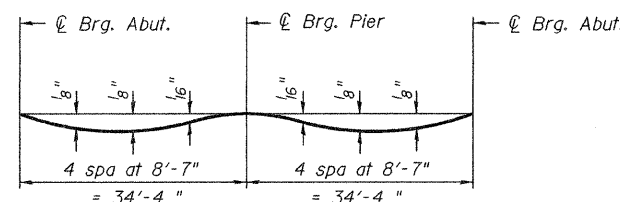


SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)
(Reinforcement not shown)

* Included in the cost of Pipe Underdrains for Structures, 4".

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend 12" beyond the end of the wingwall, turn 90°, and extend with non-perforated drain pipe 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).



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

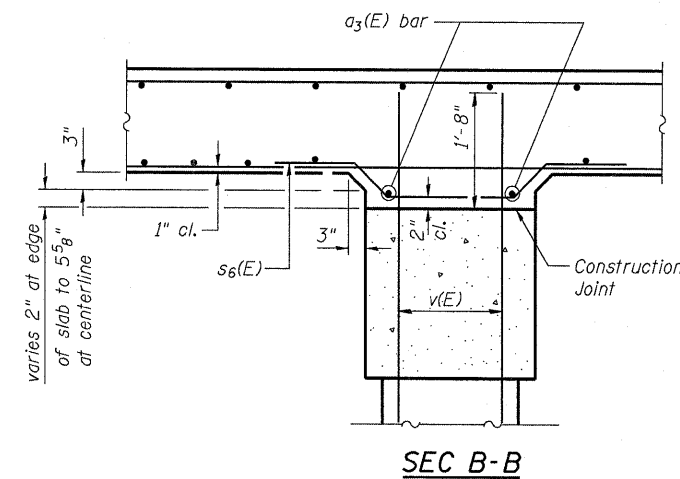
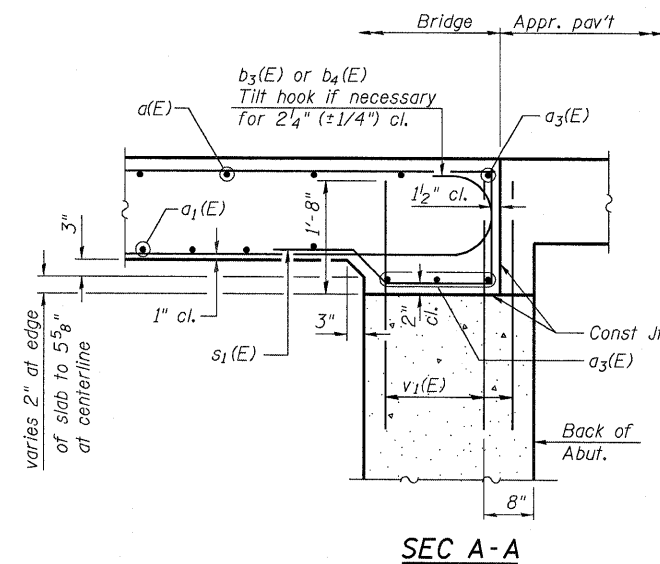
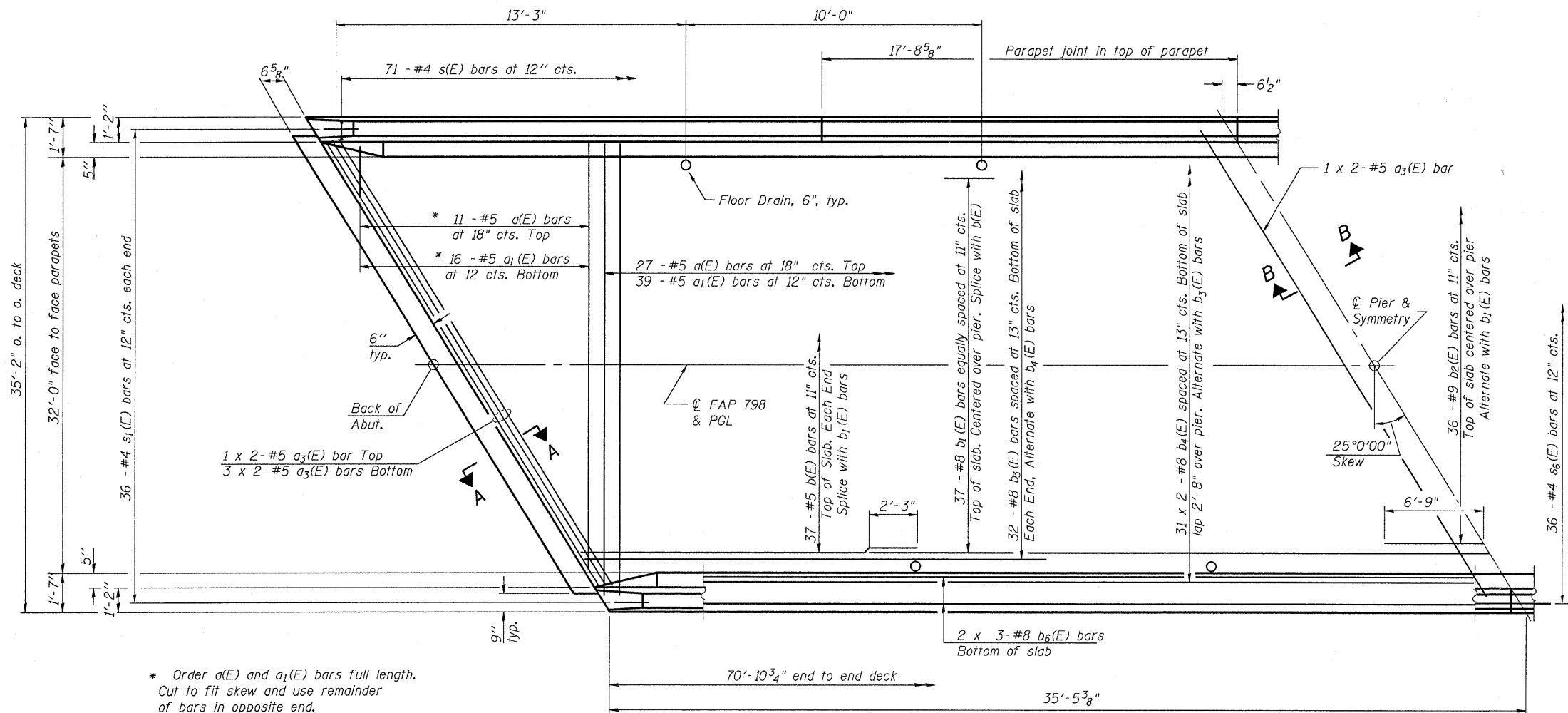
DESIGNED	MAJ/MSJ
CHECKED	MJB
DRAWN	MSJ
CHECKED	WCC

GENERAL NOTES, DETAILS
AND BILL OF MATERIALS
IL RTE 115 OVER DRAINAGE DITCH
TRIBUTARY TO NORTH VERMILLION RIVER
FAP RTE 798 SECTION 107 BR-1
FORD COUNTY
STATION 178+88.00
S.N. 027-0095

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

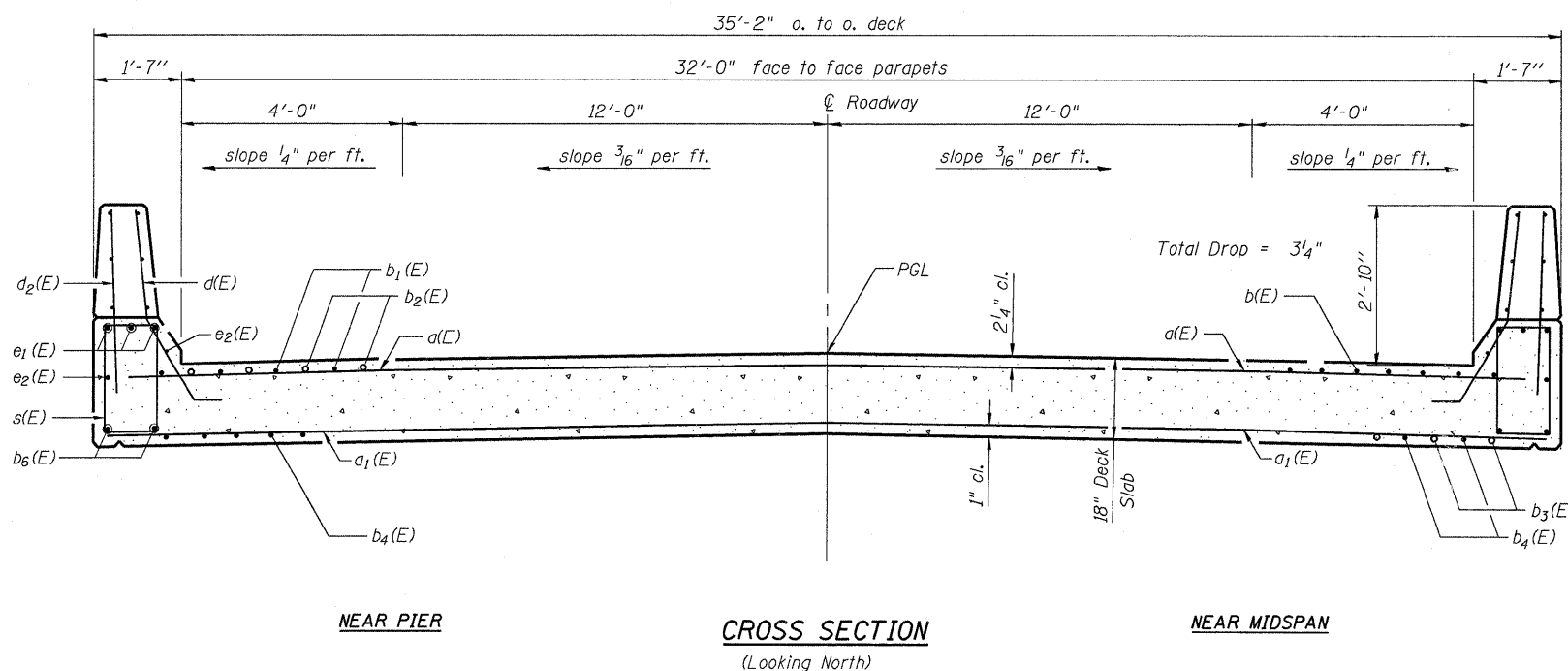
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 8 SHEETS
FAP 798	107 BR-1	FORD	92	82	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract # 66698



MINIMUM LAP LENGTHS	
Bar Size	Length
#5	2'-3"
#8	2'-8"

Notes:
See Sheet 4 of 8 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 4 of 8 for parapet reinforcement.



DESIGNED	MAJ
CHECKED	MJB
DRAWN	MSJ
CHECKED	WCC

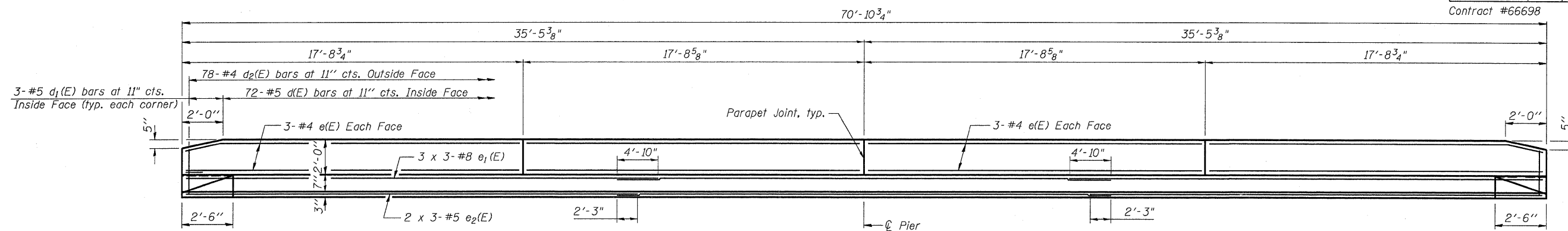
SUPERSTRUCTURE - DECK
IL RTE 115 OVER DRAINAGE DITCH
TRIBUTARY TO NORTH VERMILLION RIVER
FAP RTE 798 SECTION 107 BR-1
FORD COUNTY
STATION 178+88.00
S.N. 027-0095

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

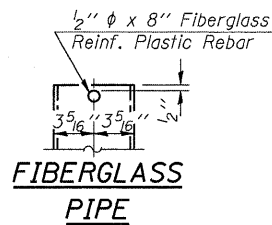
ROUTE NO.	SECTION	COUNTY	STATES	SHEET NO.
FAP 798	107 BR-1	FORD	92	83
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 4
8 SHEETS

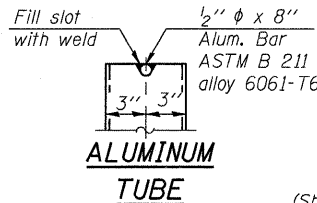
Contract #66698



INSIDE ELEVATION OF PARAPET



FIBERGLASS PIPE

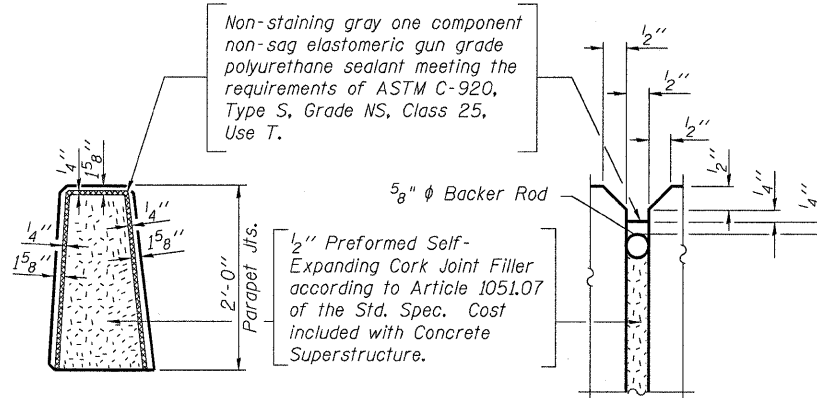


ALUMINUM TUBE



TOP PLAN (Showing Aluminum Tube)

Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25, Use T.



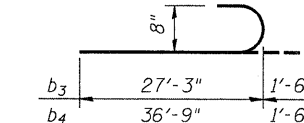
PARAPET JOINT DETAILS

Notes:
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Steel Structures Painting Council's Spec. SSPC-SPI prior to painting.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

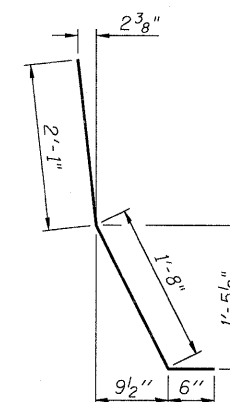
Bar Size	Length
#5	2'-3"
#8	4'-10"

SUPERSTRUCTURE BILL OF MATERIAL

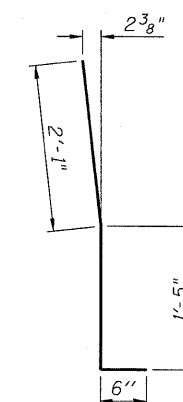
Bar No.	Size	Length	Shape
d(E)	38 #5	34'-0"	—
a1(E)	55 #5	34'-9"	—
a3(E)	20 #5	20'-6"	—
b(E)	74 #5	21'-6"	—
b1(E)	37 #8	32'-6"	—
b2(E)	36 #9	13'-6"	—
b3(E)	64 #8	28'-9"	—
b4(E)	62 #8	38'-3"	—
b6(E)	12 #8	25'-3"	—
d(E)	144 #5	4'-3"	—
d1(E)	12 #5	4'-0"	—
d2(E)	156 #4	3'-6"	—
e(E)	48 #4	17'-3"	—
e1(E)	18 #8	26'-9"	—
e2(E)	12 #5	25'-3"	—
s(E)	142 #4	6'-9"	—
s1(E)	72 #4	6'-3"	—
s6(E)	36 #4	8'-2"	—
Reinforcement Bars, Epoxy Coated		Pound	26690
Concrete Superstructure		Cu. Yds.	162.8



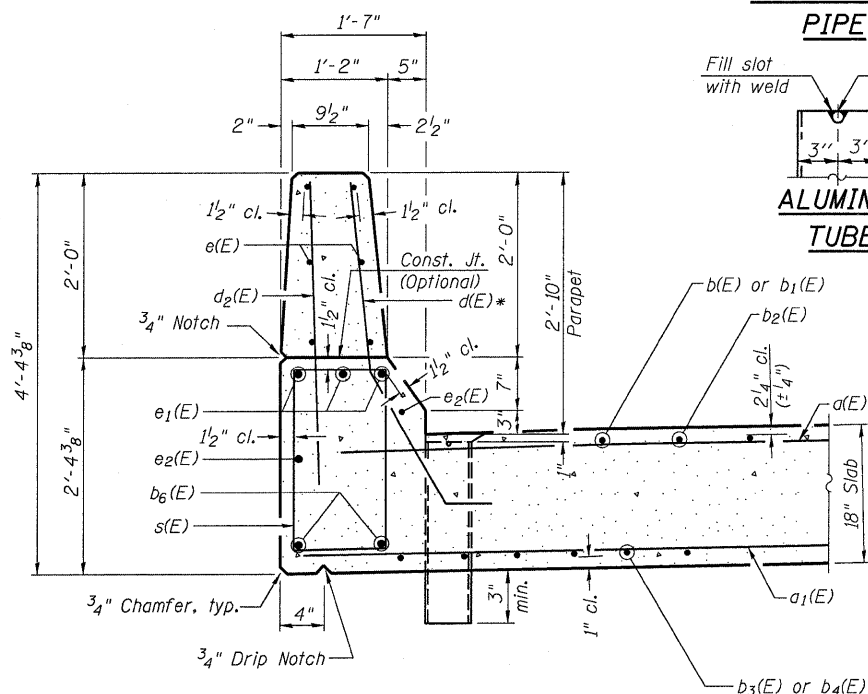
BAR b3 & b4 (E)



BAR d(E)

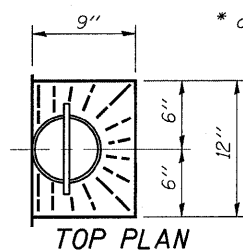


BAR d1(E)

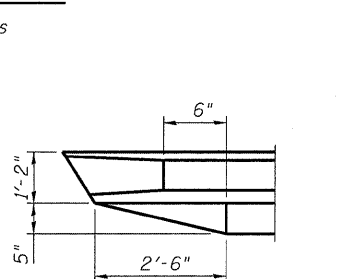


SECTION THRU PARAPET

* d1(E) at Ends of Parapets

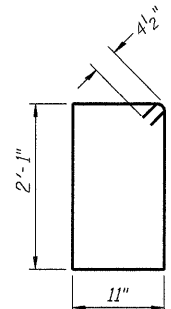


TOP PLAN

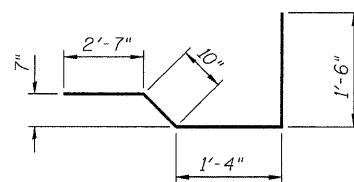


PARAPET TRANSITION

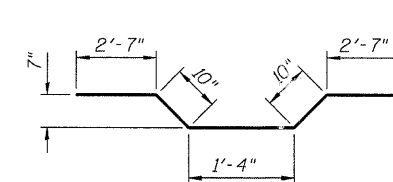
Typ. for outside parapets at abutments



BAR s(E)



BAR s1(E)



BAR s6(E)

DESIGNED MAJ
CHECKED MJB
DRAWN MSJ
CHECKED WCC

SUPERSTRUCTURE - DETAILS
IL RTE 115 OVER DRAINAGE DITCH
TRIBUTARY TO NORTH VERMILLION RIVER
FAP RTE 798 SECTION 107 BR-1
FORD COUNTY
STATION 178+88.00
S.N. 027-0095

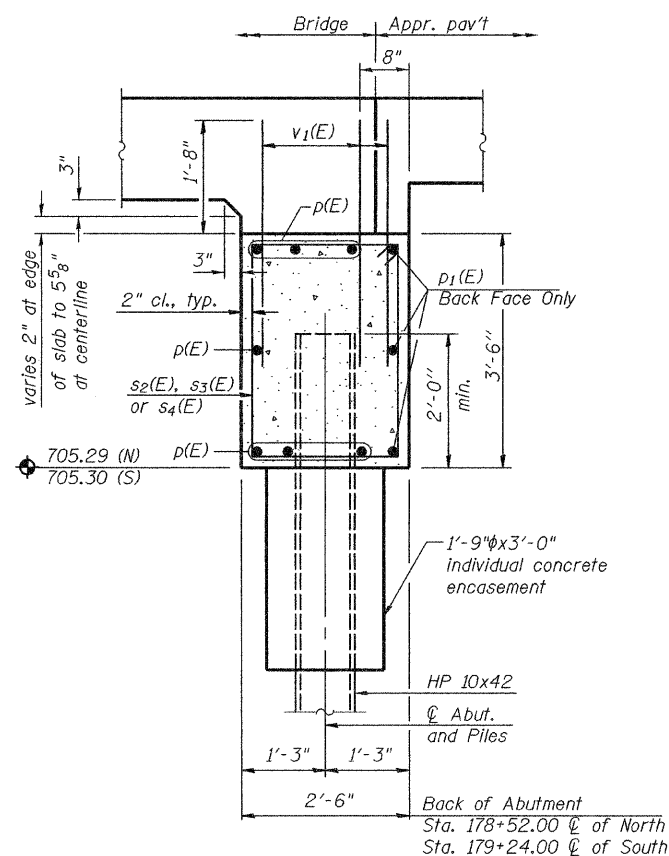
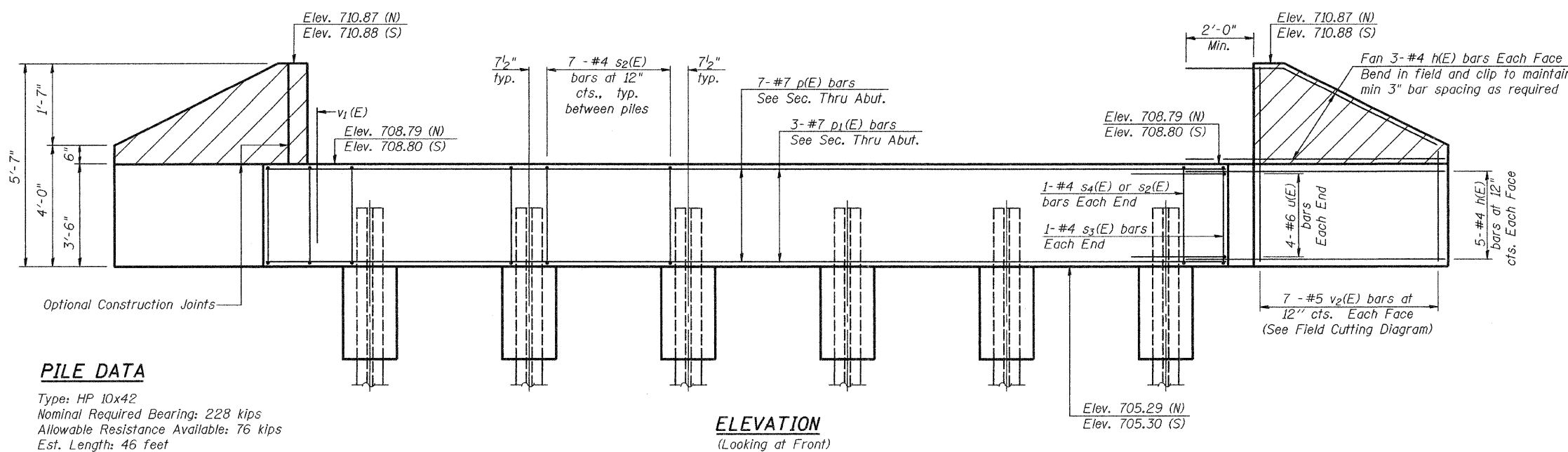
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 798	107 BR-1	FORD	92	84
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract # 66698

SHEET NO. 5
8 SHEETS

Notes: Reinforcement bars designated (E) shall be epoxy coated.
Hatched area to be poured after superstructure is in place



SEC. THRU ABUT.

BILL OF MATERIAL (2 ABUTS)

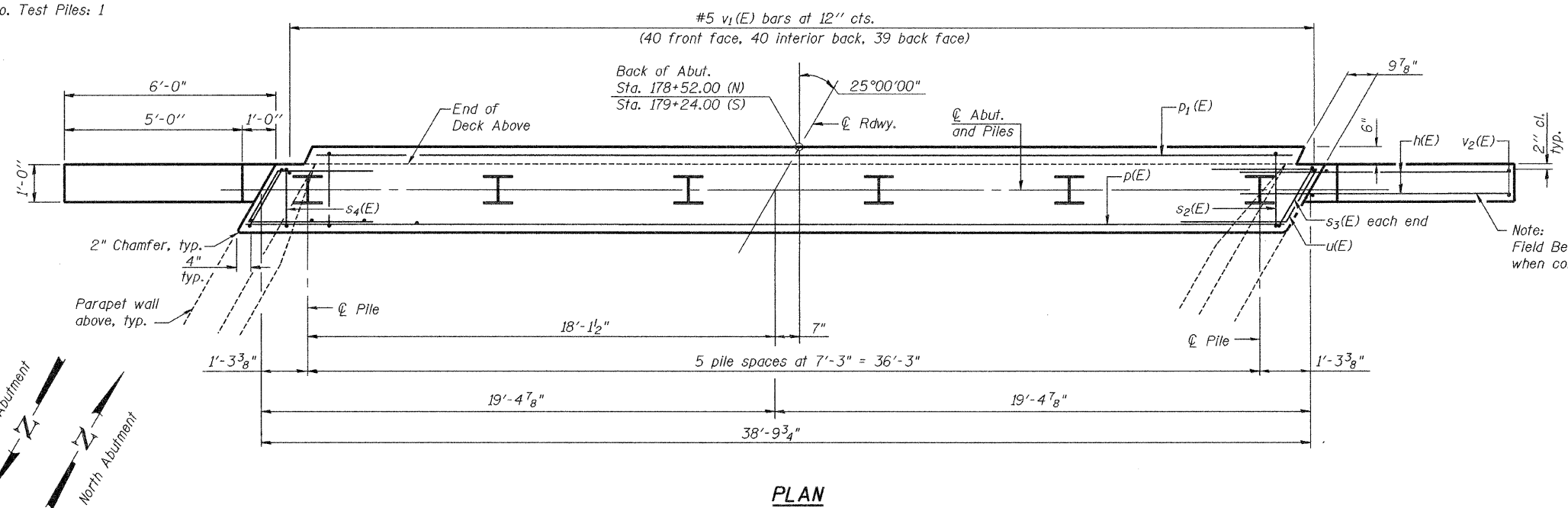
Bar	No.	Size	Length	Shape
h(E)	64	#4	8'-3"	—
p(E)	14	#7	38'-5"	—
p1(E)	6	#7	36'-10"	—
s2(E)	72	#4	11'-5"	□
s3(E)	4	#4	10'-9"	□
s4(E)	2	#4	10'-5"	□
u(E)	16	#6	9'-9"	∟
v1(E)	238	#5	3'-8"	—
v2(E)	28	#5	8'-11"	—
Concrete Structures		Cu. Yd.	28.3	
Reinforcement Bars, Epoxy Coated		Pound	3900	
Structure Exc. (N)		Cu. Yd.	60	
Structure Exc. (S)		Cu. Yd.	60	
Furnishing Steel Piles HP 10x42		Foot	506	
Driving Piles		Foot	506	
Test Piles Steel HP 10x42		Each	1	

SUBSTRUCTURE - ABUTMENTS
IL RTE 115 OVER DRAINAGE DITCH
TRIBUTARY TO NORTH VERMILLION RIVER
FAP RTE 798 SECTION 107 BR-1
FORD COUNTY
STATION 178+88.00
S.N. 027-0095

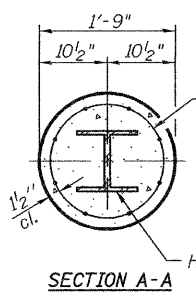
PILE DATA

Type: HP 10x42
Nominal Required Bearing: 228 kips
Allowable Resistance Available: 76 kips
Est. Length: 46 feet
No. Production Piles: 11
No. Test Piles: 1

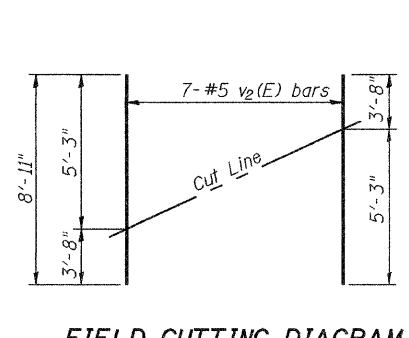
ELEVATION
(Looking at Front)



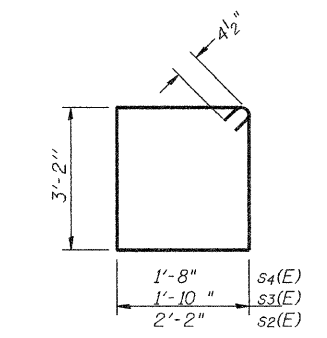
PLAN



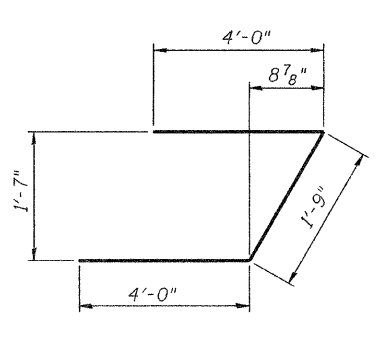
PILE ENCASEMENT DETAIL



FIELD CUTTING DIAGRAM



BARS s2(E), s3(E) & s4(E)



BAR u(E)

DESIGNED MSJ
CHECKED MJB
DRAWN MSJ
CHECKED WCC

AI-R

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 798	107 BR-1	FORD	92	85
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

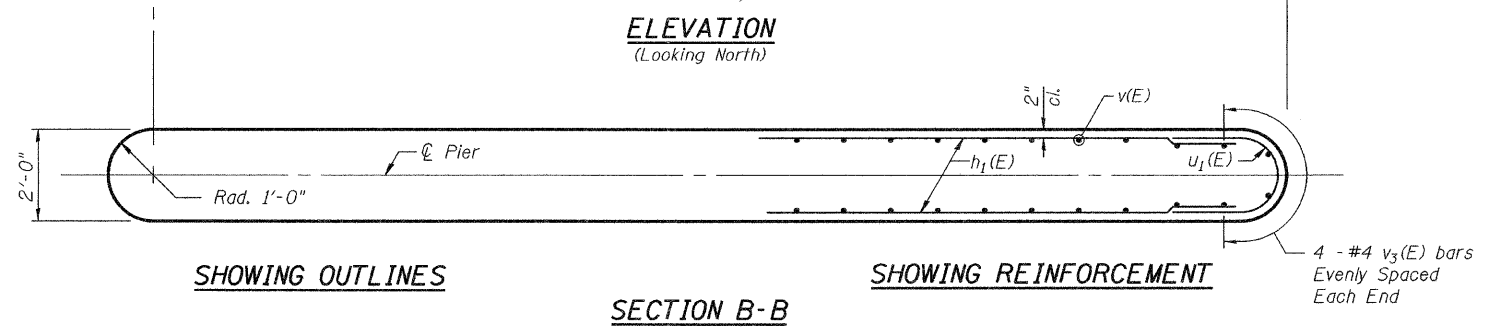
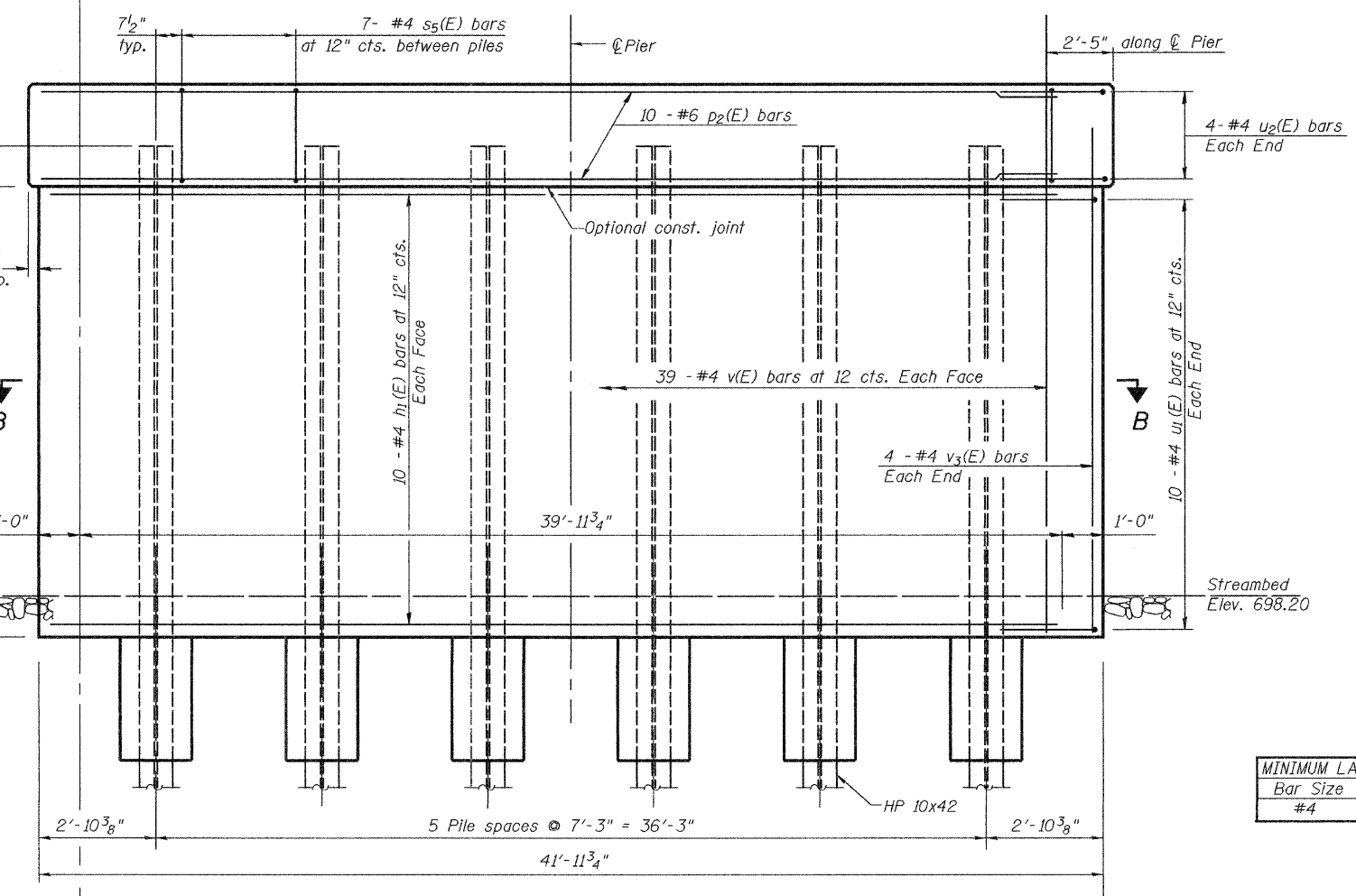
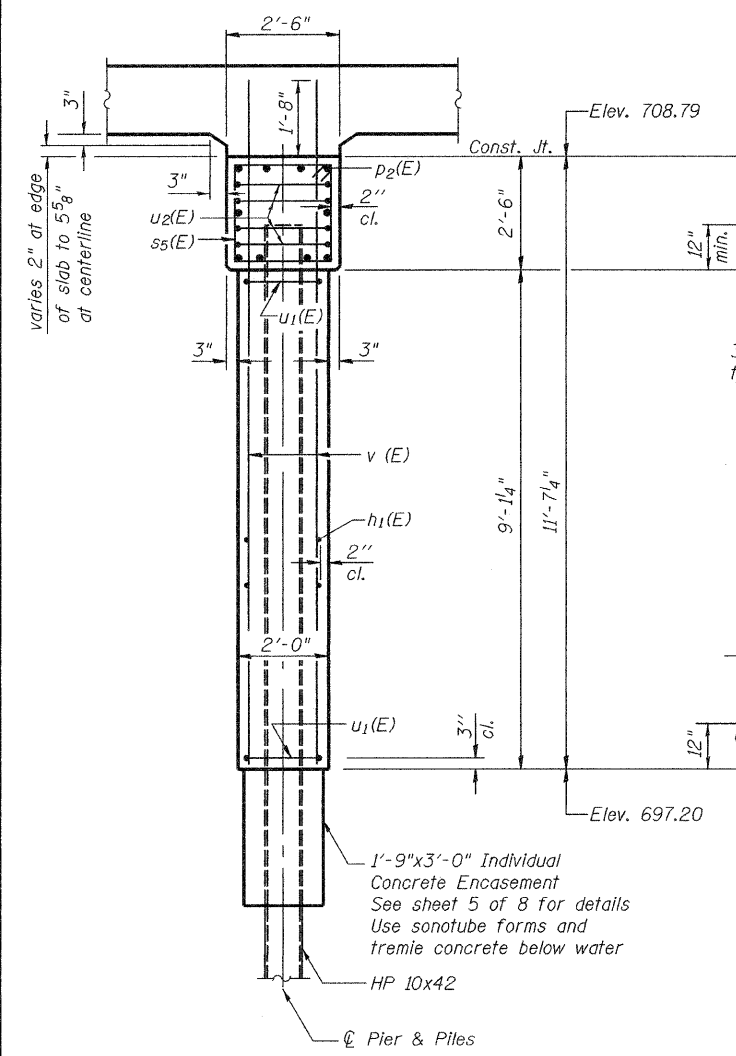
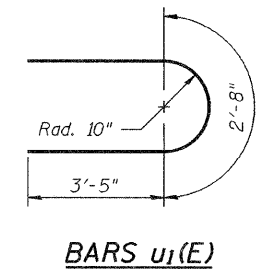
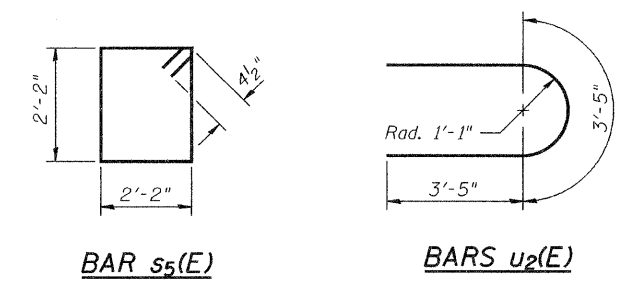
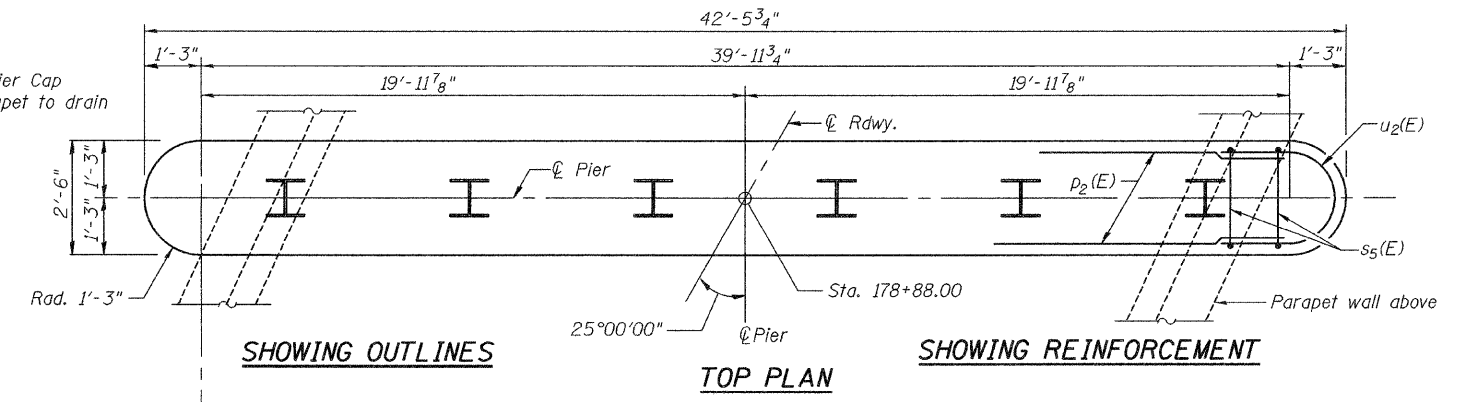
Contract # 66698

Notes: Reinforcement bars designated (E) shall be epoxy coated.
All Edges shall have standard 2" Chamfers

PILE DATA

Type: HP 10x42
Nominal Required Bearing: 396 kips
Allowable Resistance Available: 132 kips
Est. Length: 52 feet
No. Production Piles: 5
No. Test Piles: 1

Note:
Slope top of Pier Cap outside of parapet to drain



BILL OF MATERIAL

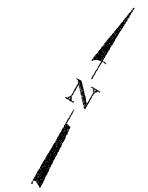
Bar	No.	Size	Length	Shape
h1(E)	20	#4	40'-0"	—
p2(E)	10	#6	40'-0"	—
s5(E)	39	#4	9'-5"	□
u1(E)	20	#4	9'-6"	U
u2(E)	8	#4	10'-3"	U
v(E)	78	#4	13'-3"	—
v3(E)	8	#4	11'-3"	—

Concrete Structures	Cu. Yd.	45.5
Reinforcement Bars, Epoxy Coated	Pound	2320
Furnishing Steel Piles HP 10x42	Foot	260
Driving Piles	Foot	260
Test Pile Steel HP 10x42	Each	1

Reinforcement Bars designated (E) shall be epoxy coated.

MINIMUM LAP LENGTHS	
Bar Size	Length
#4	2'-0"

DESIGNED	MSJ
CHECKED	MJB
DRAWN	MSJ
CHECKED	WCC



SUPERSTRUCTURE - PIER
IL RTE 115 OVER DRAINAGE DITCH
TRIBUTARY TO NORTH VERMILLION RIVER
FAP RTE 798 SECTION 107 BR-1
FORD COUNTY
STATION 178+88.00
S.N. 027-0095

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 798	107 BR-1	FORD	92	86
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 7
8 SHEETS

Contract # 66698



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 10/21/04

ROUTE IL 115 DESCRIPTION Over Drainage Ditch 3.4 mile South of US 24 LOGGED BY Larry Meyers

SECTION 107BR-1 LOCATION NE 14, SEC. 28, TWP. 26N, RNG. 9E

COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 027-0040
Station 178+89

BORING NO. 1 N. Abut
Station 178+45
Offset 6.50ft Rt
Ground Surface Elev. 710.75 ft

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Surface Water Elev. 699.41 ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter _____ ft
Upon Completion 687.8 ft ∇
After _____ Hrs. _____ ft

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Augured Bituminous, Concrete and Black Silty Clay.						
708.25						
Very Stiff Black Silty Clay Fill.						
	3					
	3	2.0	33.2			
	4	P				
705.75	-5					
Medium Gray Silty Clay Loam.						
	2					
	3	1.4	19.0			
	3	B				
	3					
	2	1.0	26.2			
	3	P				
700.25	-10					
Soft Brown Silty Clay/Silt.						
	2	0.8	26.6			
	1	P				
	2	0.3	30.1			
		P				
698.25						
Hard Gray Silty Clay Loam Till.						
	4					
	7	4.7	15.6			
	8	S				
	4					
	5	4.0	15.5			
	8	B				
	4					
	6	8.0	14.4			
	12	S				
	4					
	6	8.0	14.4			
	12	S				

Hard Gray Silty Clay Loam Till. (continued)						
	5					
	8	5.6	16.0			
	12	S				
688.75						
Hard Gray Silty Clay Till.						
	4					
	7	4.9	19.2			
	12	B				
	3					
	6	4.0	20.2			
	9	B				
682.75						
Very Stiff Gray Clay Till.						
	4					
	6	3.1	22.6			
	11	B				
	3					
	6	2.2	26.0			
	11	B				
	4					
	6	8.0	14.4			
	12	S				

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



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 10/21/04

ROUTE IL 115 DESCRIPTION Over Drainage Ditch 3.4 mile South of US 24 LOGGED BY Larry Meyers

SECTION 107BR-1 LOCATION NE 14, SEC. 28, TWP. 26N, RNG. 9E

COUNTY Ford DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 027-0040
Station 178+89

BORING NO. 1 N. Abut
Station 178+45
Offset 6.50ft Rt
Ground Surface Elev. 710.75 ft

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Surface Water Elev. 699.41 ft
Stream Bed Elev. _____ ft
Groundwater Elev.:
First Encounter _____ ft
Upon Completion 687.8 ft ∇
After _____ Hrs. _____ ft

Stiff Gray Clay with Silt Pockets at 41.5'. (continued)						
	2					
	4	1.6	26.4			
	7	B				
668.75						
Stiff Gray Sandy Clay Loam Till with Pockets (Layers) of Silt and Sand.						
	7					
	12	B				
	3					
	6	4.0	20.2			
	9	B				
662.75						
Very Dense Gray Fine Sand/Coarse Gravel, some Loamy Areas.						
	4					
	6	3.1	22.6			
	11	B				
	3					
	6	2.2	26.0			
	11	B				
	3					
	6	2.2	26.0			
	11	B				
	4					
	6	8.0	14.4			
	12	S				

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

DESIGNED	--
CHECKED	MJB
DRAWN	MSJ
CHECKED	WCC

SOIL BORINGS
IL RTE 115 OVER DRAINAGE DITCH
TRIBUTARY TO NORTH VERMILLION RIVER
FAP RTE 798 SECTION 107 BR-1
FORD COUNTY
STATION 178+88.00
S.N. 027-0095

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. SECTION COUNTY TOTAL SHEETS SHEET NO.
FAP 798 107 BR-1 FORD 92 87 8 SHEETS

Contract # 66698

<p style="font-weight: bold; margin: 0;">Illinois Department of Transportation</p> <small style="display: block; text-align: center;">Division of Highways Illinois Department of Transportation</small>	<h3 style="margin: 0;">SOIL BORING LOG</h3>	Page 1 of 2 Date 10/25/04																																																																																																																																																																																																								
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STRUCT. NO. <u>027-0040</u> Station <u>178+89</u> BORING NO. <u>2 S. Abut</u> Station <u>179+28</u> Offset <u>7.00ft Lt</u> Ground Surface Elev. <u>710.68</u> ft	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">D</th><th style="width: 5%;">B</th><th style="width: 5%;">U</th><th style="width: 5%;">M</th><td style="width: 60%;">Surface Water Elev. <u>699.41</u> ft</td><th style="width: 5%;">D</th><th style="width: 5%;">B</th><th style="width: 5%;">U</th><th style="width: 5%;">M</th></tr> <tr> <td style="font-size: 8px;">E P T H</td><td style="font-size: 8px;">L C S</td><td style="font-size: 8px;">O S</td><td style="font-size: 8px;">I S T</td><td style="font-size: 8px;">ft</td><td style="font-size: 8px;">E P T H</td><td style="font-size: 8px;">L C S</td><td style="font-size: 8px;">O S Q</td><td style="font-size: 8px;">I S T</td></tr> <tr> <td colspan="4"></td><td>Stream Bed Elev. _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>Groundwater Elev.: _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>First Encounter _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>Upon Completion _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>After _____ Hrs. _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>(ft) (6") (tsf) (%)</td><td colspan="4"></td></tr> </table>	D	B	U	M	Surface Water Elev. <u>699.41</u> ft	D	B	U	M	E P T H	L C S	O S	I S T	ft	E P T H	L C S	O S Q	I S T					Stream Bed Elev. _____ ft									Groundwater Elev.: _____ ft									First Encounter _____ ft									Upon Completion _____ ft									After _____ Hrs. _____ ft									(ft) (6") (tsf) (%)					<table border="1" style="width: 100%; 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STRUCT. NO. <u>027-0040</u> Station <u>178+89</u> BORING NO. <u>2 S. Abut</u> Station <u>179+28</u> Offset <u>7.00ft Lt</u> Ground Surface Elev. <u>710.68</u> ft	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">D</th><th style="width: 5%;">B</th><th style="width: 5%;">U</th><th style="width: 5%;">M</th><td style="width: 60%;">Surface Water Elev. <u>699.41</u> ft</td><th style="width: 5%;">D</th><th style="width: 5%;">B</th><th style="width: 5%;">U</th><th style="width: 5%;">M</th></tr> <tr> <td style="font-size: 8px;">E P T H</td><td style="font-size: 8px;">L C S</td><td style="font-size: 8px;">O S</td><td style="font-size: 8px;">I S T</td><td style="font-size: 8px;">ft</td><td style="font-size: 8px;">E P T H</td><td style="font-size: 8px;">L C S</td><td style="font-size: 8px;">O S Q</td><td style="font-size: 8px;">I S T</td></tr> <tr> <td colspan="4"></td><td>Stream Bed Elev. _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>Groundwater Elev.: _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>First Encounter _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>Upon Completion _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>After _____ Hrs. _____ ft</td><td colspan="4"></td></tr> <tr> <td colspan="4"></td><td>(ft) (6") (tsf) (%)</td><td colspan="4"></td></tr> </table>	D	B	U	M	Surface Water Elev. <u>699.41</u> ft	D	B	U	M	E P T H	L C S	O S	I S T	ft	E P T H	L C S	O S Q	I S T					Stream Bed Elev. _____ ft									Groundwater Elev.: _____ ft									First Encounter _____ ft									Upon Completion _____ ft									After _____ Hrs. _____ ft									(ft) (6") (tsf) (%)					<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td><td style="width: 5%;">WH</td><td style="width: 5%;"></td><td style="width: 85%;"></td></tr> <tr> <td style="width: 5%;">6</td><td style="width: 5%;">12</td><td style="width: 5%;">25.1</td><td style="width: 85%;"></td></tr> <tr> <td colspan="4" style="text-align: center;">662.68</td></tr> <tr> <td style="width: 5%;">-50</td><td style="width: 5%;">3</td><td style="width: 5%;"></td><td style="width: 85%;"></td></tr> <tr> <td style="width: 5%;">10</td><td style="width: 5%;">10</td><td style="width: 5%;">17.7</td><td style="width: 85%;"></td></tr> <tr> <td style="width: 5%;">10</td><td style="width: 5%;"></td><td style="width: 5%;"></td><td style="width: 85%;"></td></tr> <tr> <td colspan="4" style="text-align: center;">662.68</td></tr> <tr> <td style="width: 5%;">-50</td><td style="width: 5%;">13</td><td style="width: 5%;">17.6*</td><td style="width: 85%;"></td></tr> <tr> <td style="width: 5%;">31</td><td style="width: 5%;">37</td><td style="width: 5%;"></td><td style="width: 85%;"></td></tr> <tr> <td style="width: 5%;">37</td><td style="width: 5%;">12.4</td><td style="width: 5%;">8.8*</td><td style="width: 85%;"></td></tr> <tr> <td colspan="4" style="text-align: center;">654.18</td></tr> <tr> <td style="width: 5%;">58</td><td style="width: 5%;">S</td><td style="width: 5%;"></td><td style="width: 85%;"></td></tr> </table>		WH			6	12	25.1		662.68				-50	3			10	10	17.7		10				662.68				-50	13	17.6*		31	37			37	12.4	8.8*		654.18				58	S		
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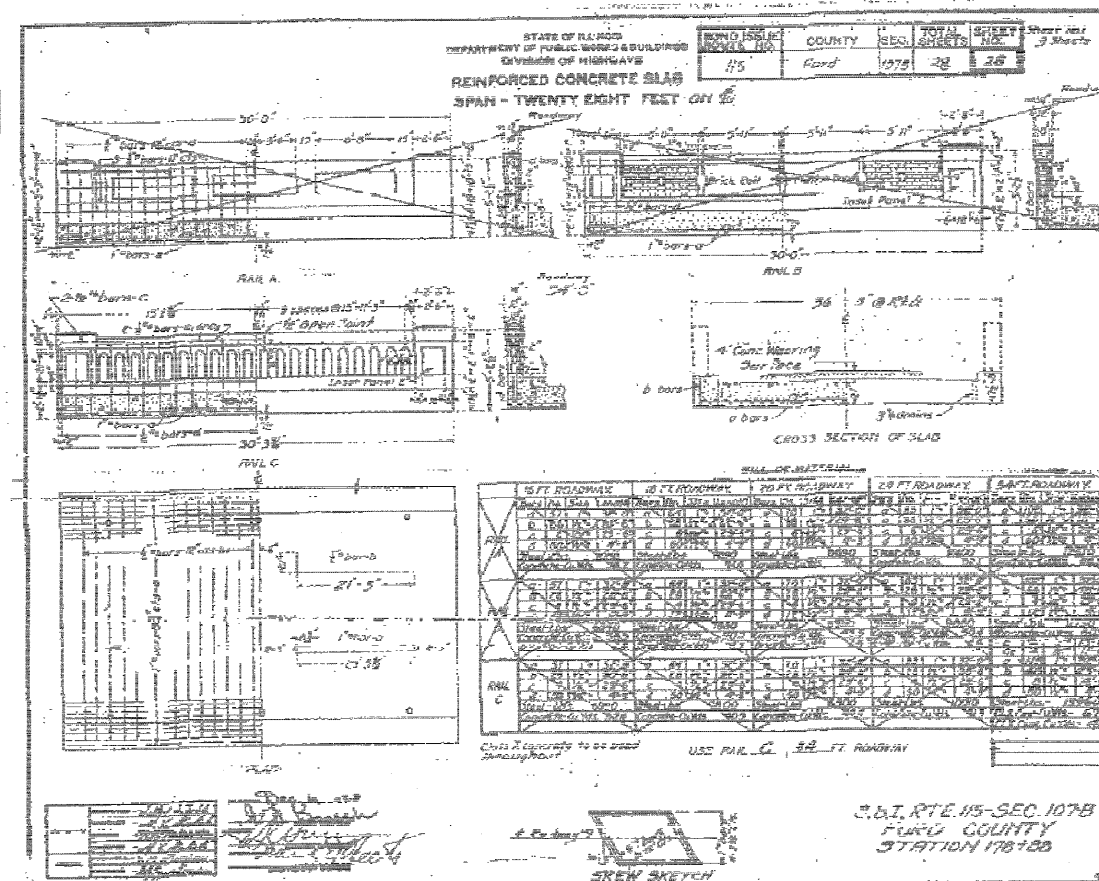
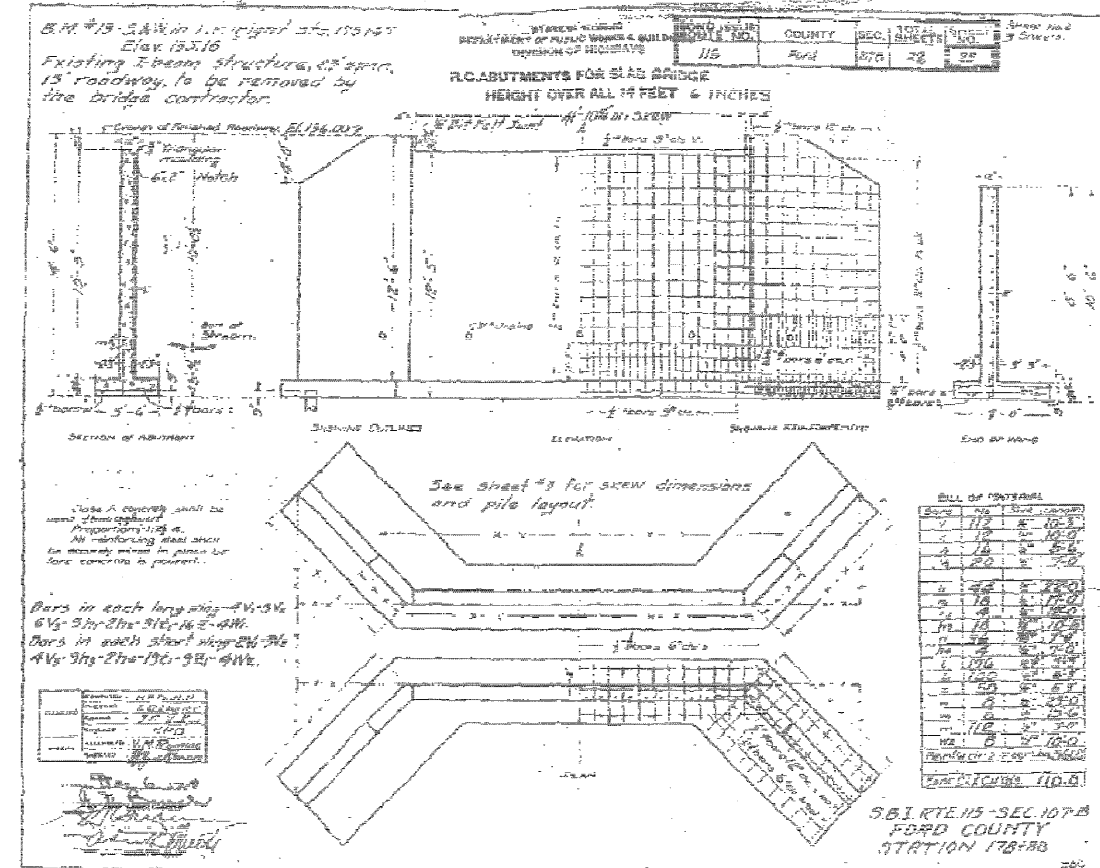
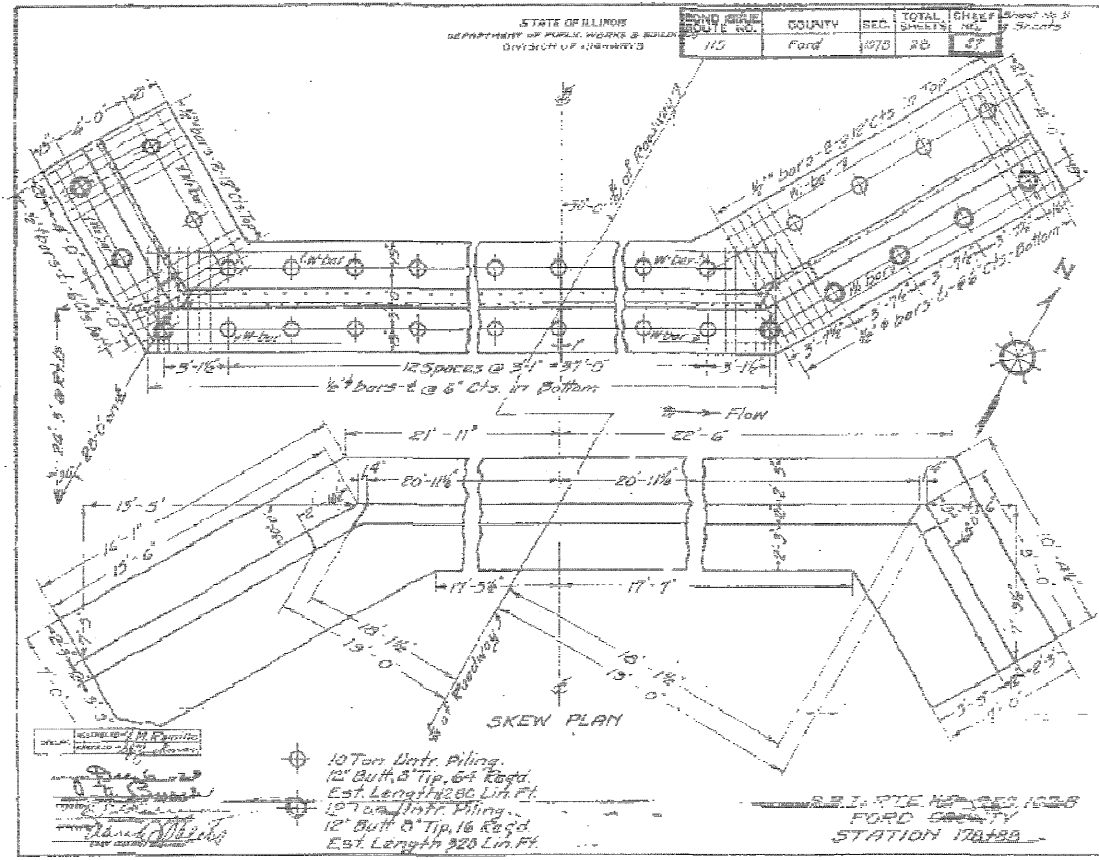
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED --
CHECKED MJB
DRAWN MSJ
CHECKED WCC

SOIL BORINGS
 IL RTE 115 OVER DRAINAGE DITCH
 TRIBUTARY TO NORTH VERMILLION RIVER
 FAP RTE 798 SECTION 107 BR-1
 FORD COUNTY
 STATION 178+88.00
 S.N. 027-0095

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107-BR1	FORD	92	88
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY



REVISIONS	
NAME	DATE

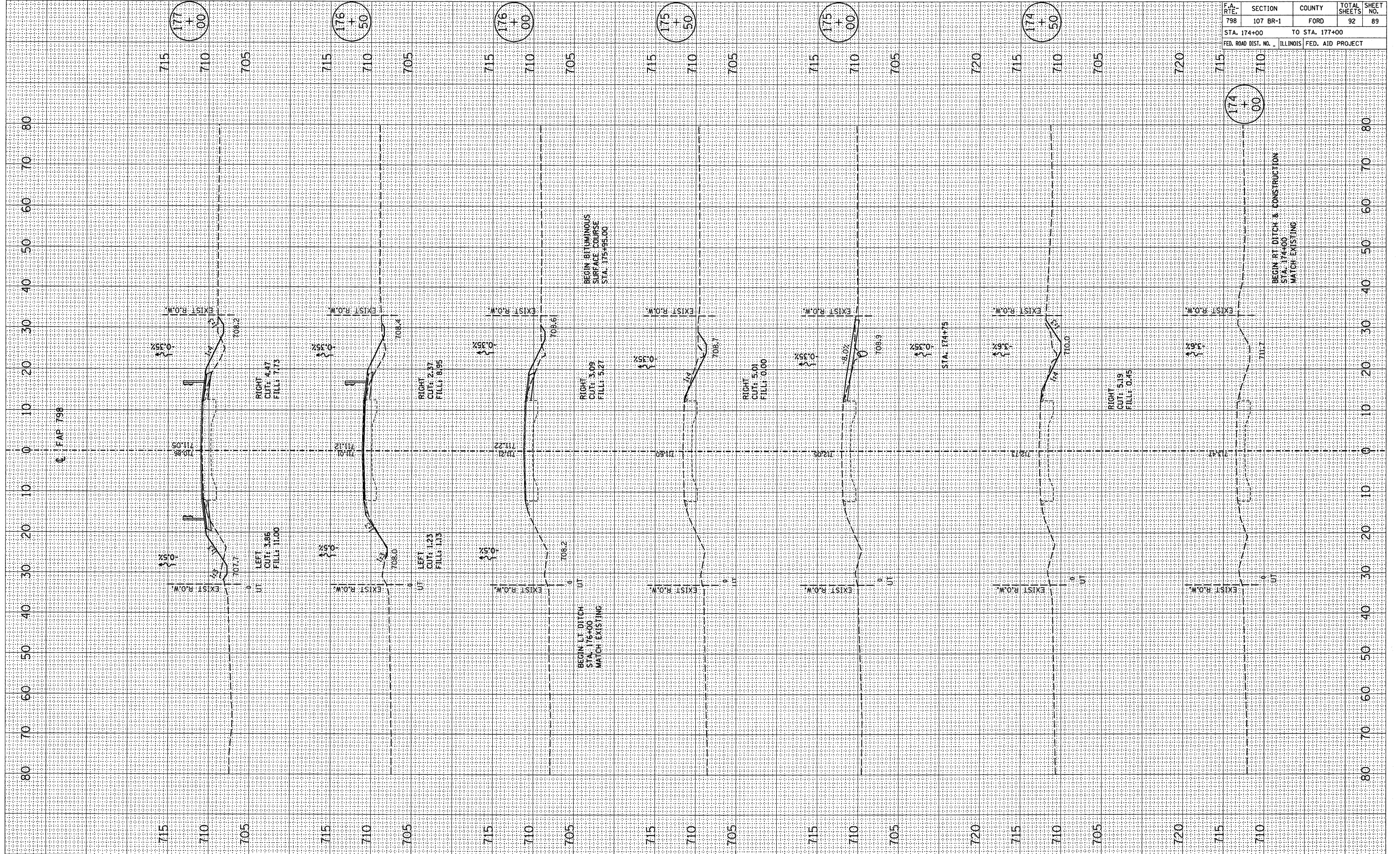
ILLINOIS DEPARTMENT OF TRANSPORTATION
 IAP ROUTE 798 (IL RTE 115)
 SEC 107 BR-1, FORD COUNTY

EXISTING STRUCTURE PLANS

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

PLOT DATE Aug 26, 2008 8:53:02 AM
 PLOT SCALE 1/8" = 1'-0"
 PLOT FILE C:\PLOT\ENTERED\66698\798-Ex-Struct.dgn
 REFERENCE REF

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	89
STA. 174+00		TO STA. 177+00		
FED. ROAD DIST. NO. - ILLINOIS		FED. AID PROJECT		



FINAL SURVEY	REVIEWED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

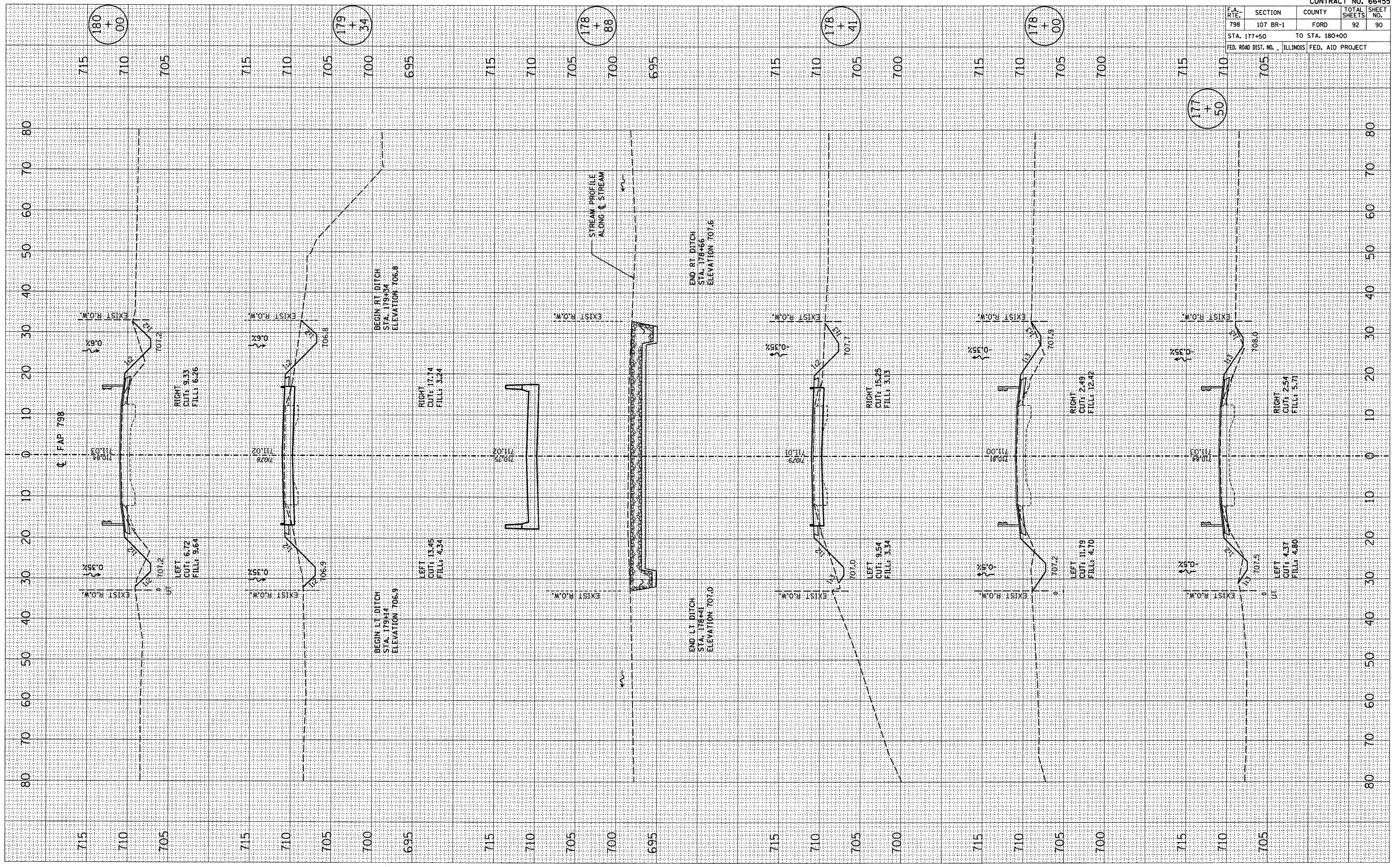
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NO.	PLOTTED		
	AREAS CHECKED		

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

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

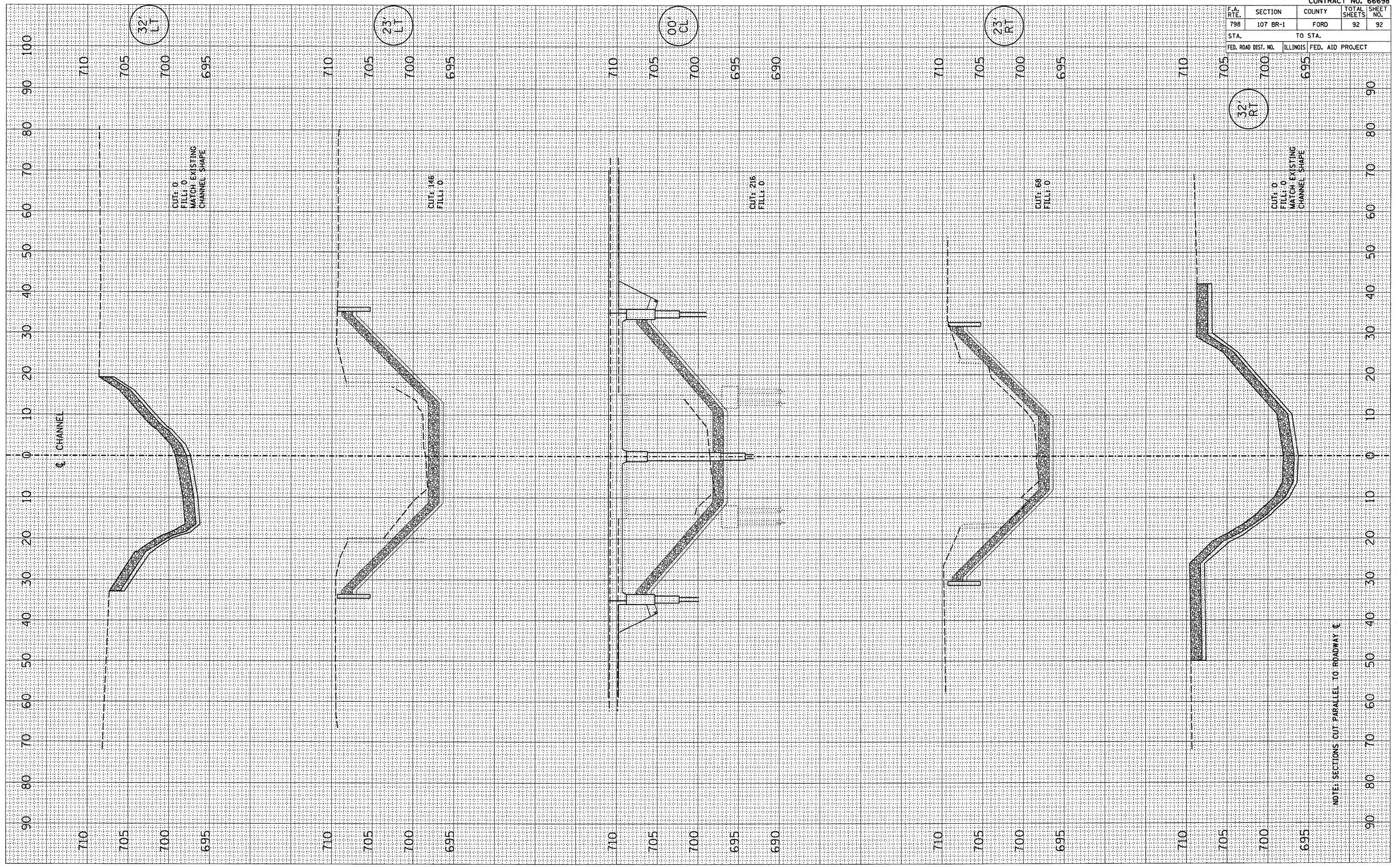


CONTRACT NO. 66455				
F.A. RATE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
798	107 BR-1	FORD	92	90
STA. 177+50		TO STA. 180+00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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 USER NAME = carpenter.dj

ORIGINAL SURVEY BY DATE
 REVIEWED BY DATE
 PLOTTED BY DATE
 PLOTTED BY DATE
 AREAS CHECKED

FINAL SURVEY BY DATE
 REVIEWED BY DATE
 PLOTTED BY DATE
 PLOTTED BY DATE
 AREAS CHECKED



32 LT

23 LT

00 CL

23 RT

32 RT

NOTE: SECTIONS CUT PARALLEL TO ROADWAY C

CONTRACT NO. 66698			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
798	107 BR-1	FORD	92
STA. TO STA.		SHEET NO.	
		92	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			