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

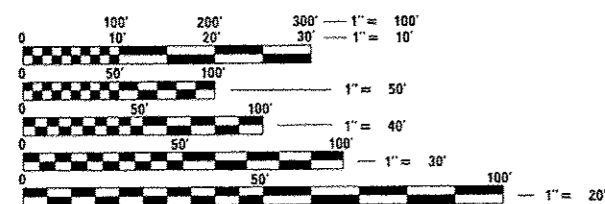
**F.A.P. ROUTE 796 (IL 115)**  
**SECTION 104BR & BR-1**  
**PROJECT: ACF-0796 (01B)**  
**STRUCTURE REPLACEMENTS**  
**KANKAKEE COUNTY**

C-93-020-15

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR-1 & BR-1	KANKAKEE	55	1
		ILLINOIS	CONTRACT NO. 66B74	



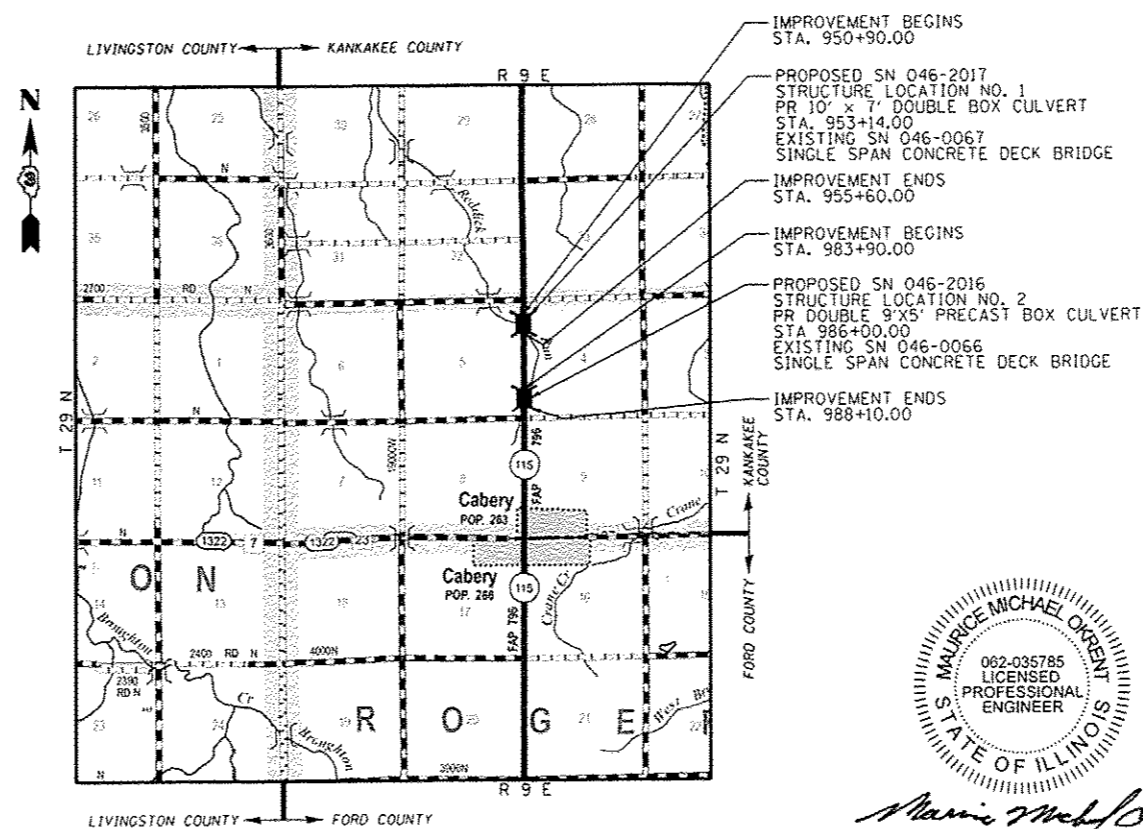
FOR LIST OF STANDARDS, SEE SHEET NO. 2



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

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

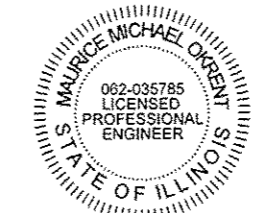
**PROJECT ENGINEER: DAVE ALEXANDER, P.E.**  
**UNIT CHIEF: DUANE LUKKARI, P.E.**  
**DISTRICT 3 NO. (815) 434-6131**  
**CONTRACT NO. 66B74**



- IMPROVEMENT BEGINS STA. 950+90.00
- PROPOSED SN 046-2017 STRUCTURE LOCATION NO. 1 PR 10' x 7' DOUBLE BOX CULVERT STA. 953+14.00 EXISTING SN 046-0067 SINGLE SPAN CONCRETE DECK BRIDGE
- IMPROVEMENT ENDS STA. 955+60.00
- IMPROVEMENT BEGINS STA. 983+90.00
- PROPOSED SN 046-2016 STRUCTURE LOCATION NO. 2 PR DOUBLE 9'x5' PRECAST BOX CULVERT STA. 986+00.00 EXISTING SN 046-0066 SINGLE SPAN CONCRETE DECK BRIDGE
- IMPROVEMENT ENDS STA. 988+10.00

**LOCATION MAP**  
(N.T.S.)

GROSS LENGTH = 3720 FT. = 0.705 MILE  
 NET LENGTH = 890 FT. = 0.169 MILE



*Maurice Michael Orent*  
 SIGNATURE  
 7/30/15  
 DATE  
 EXP 11/30/2015

**BLOOM**  
 COMPANIES, LLC  
 Infrastructure Innovation and Ingenuity

600 W. Fulton Street  
 Suite 701  
 Chicago, Illinois 60661  
 Phone: (312) 876-9500  
 Fax: (312) 876-9600

**FUNCTIONAL CLASSIFICATION**  
**MINOR ARTERIAL (NON-URBAN)**  
**CLASS II TRUCK ROUTE**  
 2013 ADT = 450  
 P.V. 76% S.U. 10% M.U. = 14%

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED August 6 2015  
*Paul W. ...*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 2 2015  
*John D. Baranzelli*  
 ENGINEER OF DESIGN AND ENVIRONMENT

Oct 2 2015  
*Omer Osman*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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**OF THE STATE OF ILLINOIS**

**GENERAL NOTES**

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

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 WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

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

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ALL ELEVATIONS REFERRING TO U.S.C.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 WILL 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
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:  
FRONTIER  
COMMONWEALTH EDISON  
NICOR

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:  
NONE

**COMMITMENTS**

ENVIRONMENTAL COORDINATION

ONLY ONE OF THE TWO STRUCTURES MAY BE CLOSED TO LOCAL TRAFFIC AT ANY TIME TO ALLOW ACCESS FOR THE PROPERTY OWNERS BETWEEN THE TWO STRUCTURES.

STRUCTURE NO. 046-0067 IS RESTRICTED TO LEGAL LOADS ONLY.

THE STRUCTURAL STEEL (I-BEAMS) FROM THE 2012 BRACING/SLAB SUPPORT PROJECT SHALL BE SALVAGED AND DELIVERED TO THE KANKAKEE MAINTENANCE YARD AS DIRECTED BY THE RESIDENT ENGINEER. THE RESIDENT ENGINEER SHALL COORDINATE WITH THE KANKAKEE MAINTENANCE YARD FIELD TECHNICIAN FOR THE LOCATION AND PLACEMENT OF THE BEAMS.

THE CONTRACTOR WILL SUPPLY THE NECESSARY EQUIPMENT TO OFFLOAD AND PLACE THE STEEL BEAMS AS DIRECTED BY THE FIELD TECHNICIAN. THIS WORK WILL BE INCLUDED IN THE PAY ITEM "REMOVAL OF EXISTING STRUCTURES NO. 1."

COMPLIANCE WITH THE TEMPORARY CONSTRUCTION/WATERWAY PERMITS (CORPS OF ENGINEERS) REQUIREMENTS.

**HIGHWAY STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
630001-10	STEEL PLATE BEAM GUARDRAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY FROM PAVEMENT EDGE
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701311-03	LANE CLOSURE, 2L 2W, MOVING OPERATIONS - DAY ONLY
701901-04	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

	HMA BINDER	HMA LEVEL BINDER	HMA SURFACE	BOTTOM LIFT HMA SHOULDERS	TOP LIFT HMA SHOULDERS
PG GRADE	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL-19.0	IL-9.5FG	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE	-	-	MIXTURE C	-	MIXTURE C
DENSITY TEST METHOD	CORES	GROWTH CURVE	CORES	CORES	CORES
MIXTURE WEIGHT	112" / SQ. YD. / IN.	112" / SQ. YD. / IN.	112" / SQ. YD. / IN.	112" / SQ. YD. / IN.	112" / SQ. YD. / IN.
QUALITY MANAGEMENT PROGRAM	OC/OA	OC/OA	OC/OA	OC/OA	OC/OA
SUBLOT SIZE	N/A	N/A	N/A	N/A	N/A
LOCATIONS	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT

\* 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 OC/OA SPECIFICATIONS.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: Don Beauvil  
DISTRICT STUDIES & PLANS ENGINEER

DATE: August 6, 2015

EXAMINED BY: Robert Jones (and)  
DISTRICT CONSTRUCTION ENGINEER

[Signature]  
DISTRICT MATERIALS ENGINEER

[Signature]  
DISTRICT OPERATIONS ENGINEER

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS, GENERAL  
NOTES AND COMMITMENTS

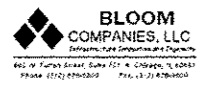
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	2
CONTRACT NO. 66874			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				SN 046-0067 (EX)	SN 046-0066 (EX)
				BOX CULVERT 0011	BOX CULVERT 0011
				SN 046-2017	SN 046-2016
20200100	EARTH EXCAVATION	CU YD	766	433	333
20400800	FURNISHED EXCAVATION	CU YD	238	238	0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	606	332	274
25000210	SEEDING, CLASS 2A	ACRE	0.79	0.47	0.32
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	73	43	30
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	73	43	30
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	73	43	30
25100630	EROSION CONTROL BLANKET	SQ YD	3835	2288	1547
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	237	141	96
28000305	TEMPORARY DITCH CHECKS	FOOT	126	90	36
28000400	PERIMETER EROSION BARRIER	FOOT	442	52	390
28100107	STONE RIPRAP, CLASS A4	SQ YD	548	251	297
28200200	FILTER FABRIC	SQ YD	548	251	297
31100500	SUBBASE GRANULAR MATERIAL, TYPE A 6"	SQ YD	409	162	247

• SPECIALTY ITEMS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	3
			CONTRACT NO. 66B74	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				SN 046-0067 (EX)	SN 046-0066 (EX)
				BOX CULVERT 0011	BOX CULVERT 0011
				SN 046-2017	SN 046-2016
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3251	1507	1744
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	0.78	0.41	0.37
40600525	LEVELING BINDER (HAND METHOD), N50	TON	1.29	0.68	0.61
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	101	57	44
40600990	TEMPORARY RAMP	SO YD	160	80	80
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	201	80	121
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	185	98	87
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	2576	1360	1216
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	43	24	19
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	846	402	444
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	32080	12420	19660
51500100	NAME PLATES	EACH	2	1	1

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 PROJECT - ILLINOIS STATE HIGHWAY DEPARTMENT OF TRANSPORTATION  
 DRAWING - ILLINOIS STATE HIGHWAY DEPARTMENT OF TRANSPORTATION



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

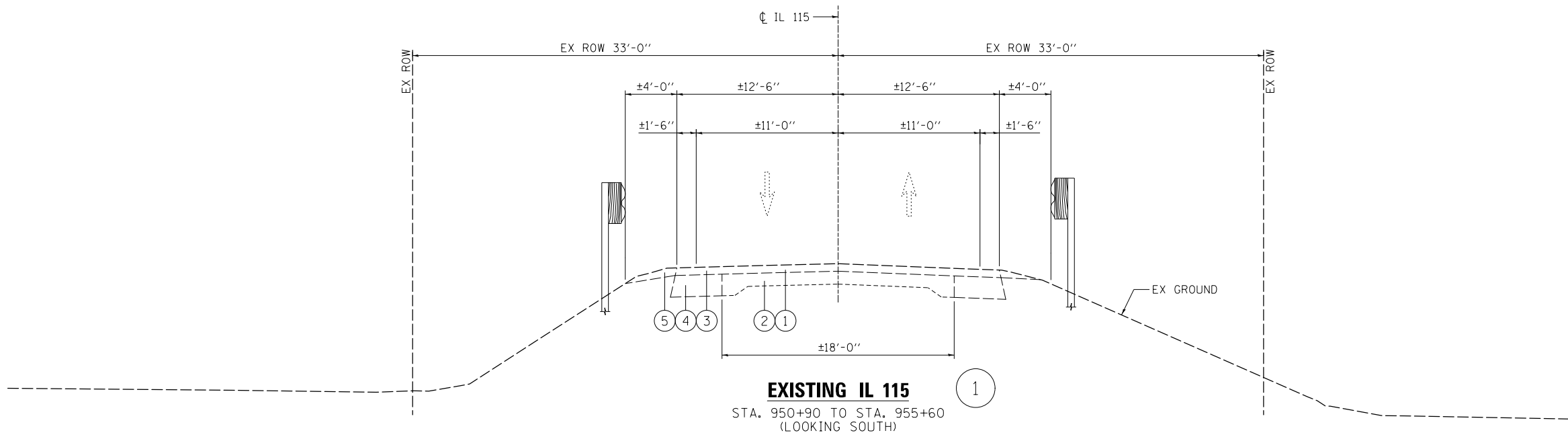
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SCALE:	SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	4
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				



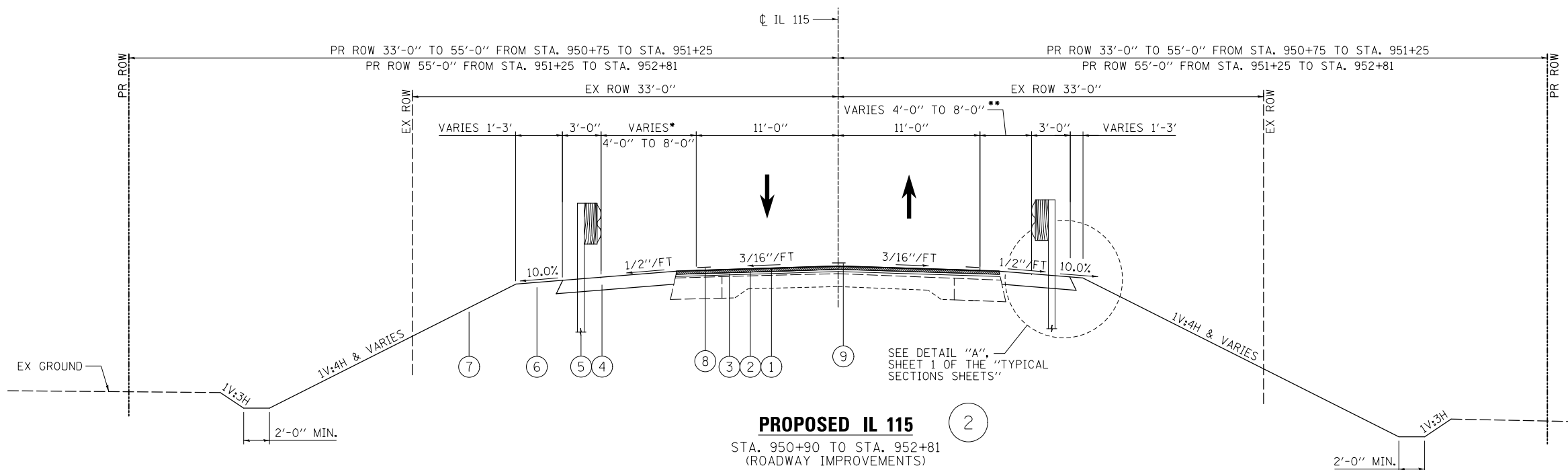






**EXISTING IL 115**  
 STA. 950+90 TO STA. 955+60  
 (LOOKING SOUTH)

- ① 6" HMA OVERLAY
- ② 9"-6"-9" PCC PAVEMENT
- ③ 8" MIN HMA SHOULDER
- ④ 10" HMA 4'-0" WIDENING
- ⑤ AGGREGATE SHOULDER

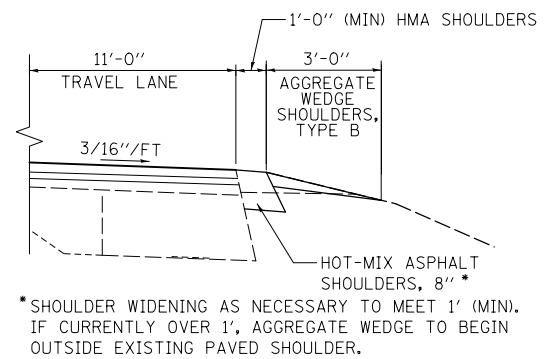


**PROPOSED IL 115**  
 STA. 950+90 TO STA. 952+81  
 (ROADWAY IMPROVEMENTS)

- ① 2 1/2" HMA SURFACE REMOVAL
- ② 1 1/2" HMA SURFACE COURSE
- ③ 1" LEVELING BINDER
- ④ 8" HMA SHOULDER
- ⑤ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6'-0" POSTS
- ⑥ EARTH SHOULDER
- ⑦ EROSION CONTROL BLANKET
- ⑧ PAINT PAVEMENT MARKING LINE 4"
- ⑨ PAINT PAVEMENT MARKING LINE 6"

\*1'-6" WIDE HMA SHOULDER:  
 STA. 950+90.00 TO STA. 951+58±  
 3'-0" WIDE AGGREGATE SHOULDER:  
 STA. 950+90.00 TO STA. 951+58±  
 SEE DETAIL "A"

\*\*1'-6" WIDE HMA SHOULDER:  
 STA. 950+90.00 TO STA. 951+58±  
 3'-0" WIDE AGGREGATE SHOULDER:  
 STA. 950+90.00 TO STA. 951+58±  
 SEE DETAIL "A"



\*SHOULDER WIDENING AS NECESSARY TO MEET 1' (MIN). IF CURRENTLY OVER 1', AGGREGATE WEDGE TO BEGIN OUTSIDE EXISTING PAVED SHOULDER.

**DETAIL "A"**

AGGREGATE SHOULDER LOCATIONS  
 - NO GUARD RAIL

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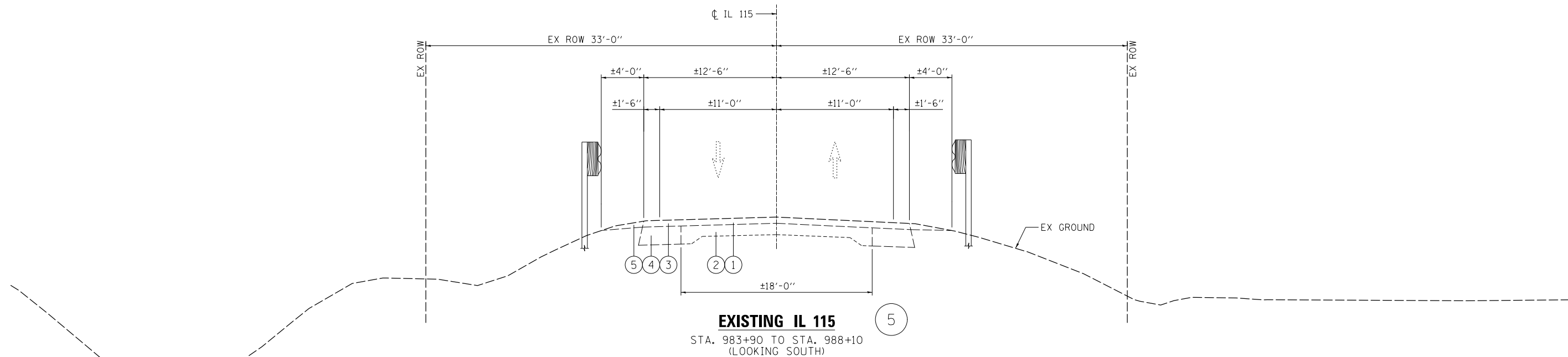
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
 SN 046-2017**

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B74	

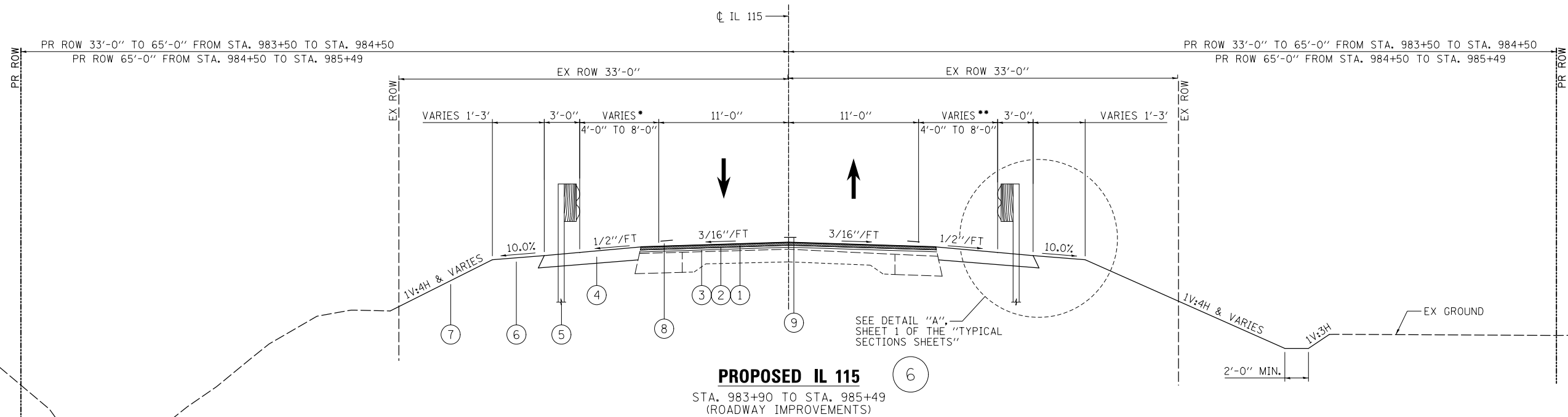




**EXISTING IL 115**

STA. 983+90 TO STA. 988+10  
(LOOKING SOUTH)

- ① 6" HMA OVERLAY
- ② 9"-6"-9" PCC PAVEMENT
- ③ 8" MIN HMA SHOULDER
- ④ 10" HMA 4'-0" WIDENING
- ⑤ AGGREGATE SHOULDER



**PROPOSED IL 115**

STA. 983+90 TO STA. 985+49  
(ROADWAY IMPROVEMENTS)

\*1'-6" WIDE HMA SHOULDER:  
STA. 983+90.00 TO STA. 984+69.93±  
3'-0" WIDE AGGREGATE SHOULDER:  
STA. 983+90.00 TO STA. 984+77.99±  
SEE DETAIL "A"

- ① 2 1/2" HMA SURFACE REMOVAL
- ② 1 1/2" HMA SURFACE COURSE
- ③ 1" LEVELING BINDER
- ④ 8" HMA SHOULDER
- ⑤ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6'-0" POSTS
- ⑥ EARTH SHOULDER
- ⑦ EROSION CONTROL BLANKET
- ⑧ PAINT PAVEMENT MARKING LINE 4"
- ⑨ PAINT PAVEMENT MARKING LINE 6"

\*\*1'-6" WIDE HMA SHOULDER:  
STA. 983+90.00 TO STA. 984+67.81±  
3'-0" WIDE AGGREGATE SHOULDER:  
STA. 983+90.00 TO STA. 984+73.91±  
SEE DETAIL "A"

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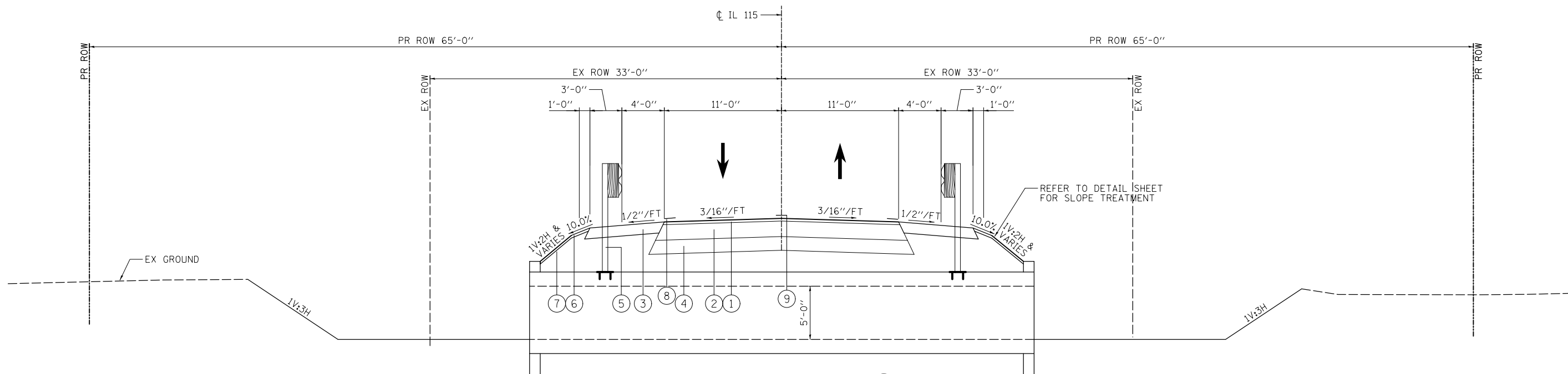
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	DATE - 3/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
SN 046-2016**

SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

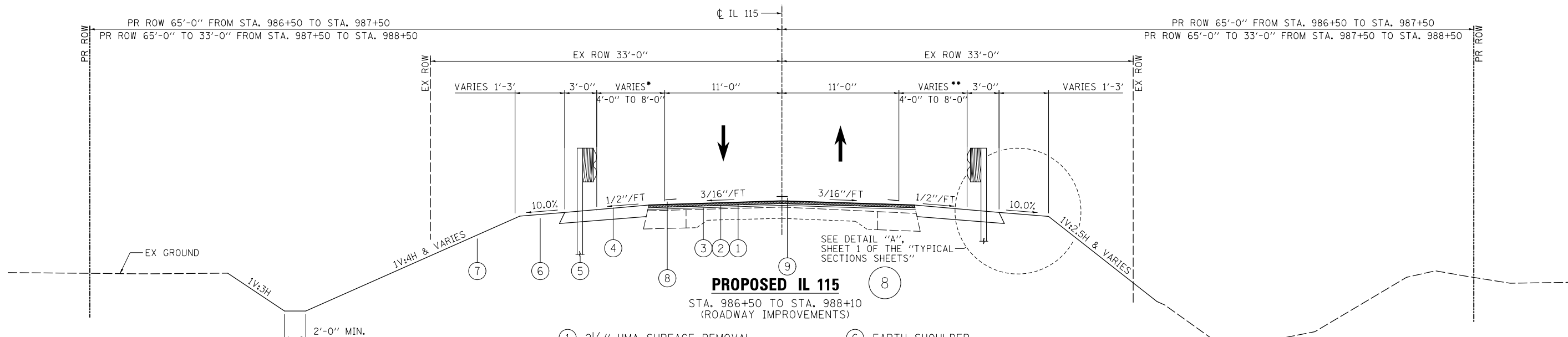
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	9
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	



**PROPOSED IL 115** (7)

STA. 985+49 TO STA. 986+50  
(FULL ROADWAY RECONSTRUCTION & BOX CULVERT REPLACEMENT)

- ① 1/2" HMA SURFACE COURSE
- ② 8 3/4" HMA BINDER COURSE
- ③ 8" HMA SHOULDER
- ④ 6" SUBBASE GRANULAR MATERIAL, TYPE A
- ⑤ GUARDRAIL (ATTACHED TO CULVERT)
- ⑥ EARTH SHOULDER
- ⑦ EROSION CONTROL BLANKET
- ⑧ PAINT PAVEMENT MARKING LINE 4"
- ⑨ PAINT PAVEMENT MARKING LINE 6"



**PROPOSED IL 115** (8)

STA. 986+50 TO STA. 988+10  
(ROADWAY IMPROVEMENTS)

- ① 2 1/2" HMA SURFACE REMOVAL
- ② 1 1/2" HMA SURFACE COURSE
- ③ 1" LEVELING BINDER
- ④ 8" HMA SHOULDER
- ⑤ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6'-0" POSTS
- ⑥ EARTH SHOULDER
- ⑦ EROSION CONTROL BLANKET
- ⑧ PAINT PAVEMENT MARKING LINE 4"
- ⑨ PAINT PAVEMENT MARKING LINE 6"

\*1'-6" WIDE HMA SHOULDER:  
STA. 987+32.58± TO STA. 988+10.00  
3'-0" WIDE AGGREGATE SHOULDER:  
STA. 987+26.67± TO STA. 988+10.00  
SEE DETAIL "A"

\*\*1'-6" WIDE HMA SHOULDER:  
STA. 987+28.13± TO STA. 988+10.00  
3'-0" WIDE AGGREGATE SHOULDER:  
STA. 987+22.03± TO STA. 988+10.00  
SEE DETAIL "A"

MODEL NAME: Detail  
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PLOT DATE = 7/29/2015	DATE - 3/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
SN 046-2016**

SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B74	

**REMOVAL OF PAVING MATERIALS**

STATION TO STATION	HMA SURFACE REMOVAL, 2 1/2"	APPROACH SLAB REMOVAL
	(SQ. YD.)	(SQ YD)
STA 950+90 TO STA 952+81	552	
STA 952+81 TO STA 953+14	96	58
STA 953+14 TO STA 953+47	96	61
STA 953+47 TO STA 955+60	616	
STA 983+90 TO STA 985+49	460	
STA 985+49 TO STA 986+00	148	102
STA 986+00 TO STA 986+50	145	102
STA 986+50 TO STA 988+10	463	
TOTALS	2576	323

**POROUS GRANULAR EMBANKMENT**

LOCATION	POROUS GRANULAR EMBANKMENT
	CU YD
STA. 952+88 TO 953+40	332
STA. 985+68 TO 986+32	274
TOTAL	606

**EARTHWORK**

LOCATION	EARTH EXCAVATION (CY)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK ** BALANCE WASTE (+) OR SHORTAGE (-)
STA. 950+90 TO 955+60	433	325	563	-238
STA. 983+90 TO 988+10	333	250	230	20
TOTAL	766	575	793	

\* ASSUMED SHRINKAGE FACTOR: 0.25  
 \*\* SHORTAGE IS FURNISHED EXCAVATION. DUE TO STAGING AND LIMITED VOLUME, WASTE WILL NOT BE COUNTED TOWARD SHORTAGE FOR COMPUTATION OF FURNISHED EXCAVATION

**SEEDING /FERTILIZING**

LOCATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
	ACRE	POUND	POUND	POUND	SQ YD	POUND	FOOT	FOOT
STA 950+90 RT TO STA 952+75 RT	0.11	10	10	10	554	33	9	
STA 952+75 RT TO STA 953+50 RT	0.03	3	3	3	136	9	18	
STA 953+50 RT TO STA 955+60 RT	0.11	10	10	10	518	33	18	
STA 950+90 LT TO STA 952+75 LT	0.09	8	8	8	433	27	9	
STA 952+75 LT TO STA 953+50 LT	0.03	3	3	3	143	9	18	52
STA 953+50 LT TO STA 955+60 LT	0.10	9	9	9	503	30	18	
STA 983+90 RT TO STA 985+75 RT	0.06	5	5	5	307	18	9	115
STA 985+75 RT TO STA 987+00 RT	0.06	6	6	6	265	18	9	110
STA 987+00 RT TO STA 988+10 RT	0.03	3	3	3	161	9		60
STA 983+90 LT TO STA 985+00 LT	0.01	1	1	1	48	3		105
STA 985+00 LT TO STA 986+25 LT	0.05	5	5	5	227	15	9	
STA 986+25 LT TO STA 988+10 LT	0.11	10	10	10	538	33	9	
TOTAL	0.79	73	73	73	3835	237	126	442

**RIGHT OF WAY MARKERS**

LOCATION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	REMOVE RIGHT-OF-WAY MARKERS
	(EACH)	(EACH)
950+75 33' RT	1	
951+25 55' RT	1	
955+25 55' RT	1	
955+75 33' RT	1	
950+75 33' LT	1	
951+25 55' LT	1	
955+25 55' LT	1	
955+75 33' LT	1	
983+50 33' RT	1	
984+50 65' RT	1	
987+50 65' RT	1	
988+50 33' RT	1	
983+50 33' LT	1	
984+50 65' LT	1	
987+50 65' LT	1	
988+50 32.34' LT	1	
TOTALS	16	8

**PAVEMENT MARKING LINE AND RAISED REFLECTIVE PAVEMENT MARKERS**

LOCATION	PAINT PAVEMENT* MARKING - LINE 4"	PAINT PAVEMENT* MARKING - LINE 6"	RAISED REFLECTIVE PAVEMENT MARKERS	RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL
	FOOT	FOOT	EACH	EACH
STA 950+90 TO STA 955+60		240	7	7
STA 950+90 LT TO STA 955+60 LT	940			
STA 950+90 RT TO STA 955+60 RT	940			
STA 983+90 TO STA 988+10		220	6	6
STA 983+90 LT TO STA 988+10 LT	840			
STA 983+90 RT TO STA 988+10 RT	840			
TOTAL	3560	460	13	13

\* TWO APPLICATIONS REQUIRED. EACH PAID FOR.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	11
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	



**GUARDRAIL**

LOCATION	SPBGR, TYPE A	SPBGR, ATTACHED	TRAF BAR TERM	GUARDRAIL	GUARDRAIL	TERMINAL
	6 FT POSTS	TO STRUCTURES	TY 1 SP FLR	REMOVAL	MARKERS, TYPE A	MARKER - DIRECT APPLIED
	FOOT	FOOT	EACH	FOOT	EACH	EACH
STA 951+75.70 RT			1			1
STA 952+22.57 RT TO STA 952+97.57 RT	75				1	
STA 952+97.57 RT TO STA 953+24.83 RT		27.3			2	
STA 953+24.83 RT TO STA 953+37.33 RT	12.5				1	
STA 953+84.21 RT			1			1
STA 952+43.80 LT			1			1
STA 952+90.67 LT TO STA 953+03.17 LT	12.5				1	
STA 953+03.17 LT TO STA 953+30.43 LT		27.3			2	
STA 953+30.43 LT TO STA 954+05.43 LT	75				1	
STA 954+52.31 LT			1			1
STA 952+24.55 RT TO STA 954+03.30 RT				179		
STA 952+24.71 LT TO STA 954+03.56 LT				179		
STA 984+89.49 RT			1			1
STA 985+36.36 RT TO STA 985+98.86 RT	62.5				1	
STA 985+98.86 RT TO STA 986+35.53 RT		37			2	
STA 986+35.53 RT TO STA 986+60.53 RT	25				1	
STA 987+07.41 RT			1			1
STA 984+92.62 LT			1			1
STA 985+39.49 LT TO STA 985+64.49 LT	25				1	
STA 985+64.49 LT TO STA 986+01.15 LT		37			2	
STA 986+01.15 LT TO STA 986+63.65 LT	62.5				1	
STA 987+10.53 LT			1			1
STA 985+20.28 RT TO STA 987+11.52 RT				191		
STA 984+88.22 LT TO STA 986+79.49 LT				191		
TOTAL	350	129	8	740	16	8

**PAVING MATERIALS**

STATION TO STATION	SUBBASE GRANULAR MATERIAL, TYPE A 6" (SQ YD)	LEVELING BINDER (MACHINE METHOD), N50 (TON)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (TON)	AGGREGATE WEDGE SHOULDERS, TYPE B (TON)	HOT-MIX ASPHALT SHOULDERS 8" (SQ YD)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)
SN 046-2017							
950+90 952+81		27		40	11	155	358
952+81 953+47	162		80	14		104	749
953+47 955+60		30		44	13	143	399
SN 046-2016							
983+90 985+49		22		33	9	137	298
985+49 986+50	247		121	21		158	1146
986+50 988+10		22		33	10	149	300
TOTALS	409	101	201	185	43	846	3251

**RIPRAP**

LOCATION	STONE RIPRAP, CLASS A4	FILTER FABRIC
	(SQ YD)	(SQ YD)
SN 046-2017		
LEFT	127	127
RIGHT	124	124
SN 046-2016		
LEFT	147	147
RIGHT	150	150
TOTALS	548	548

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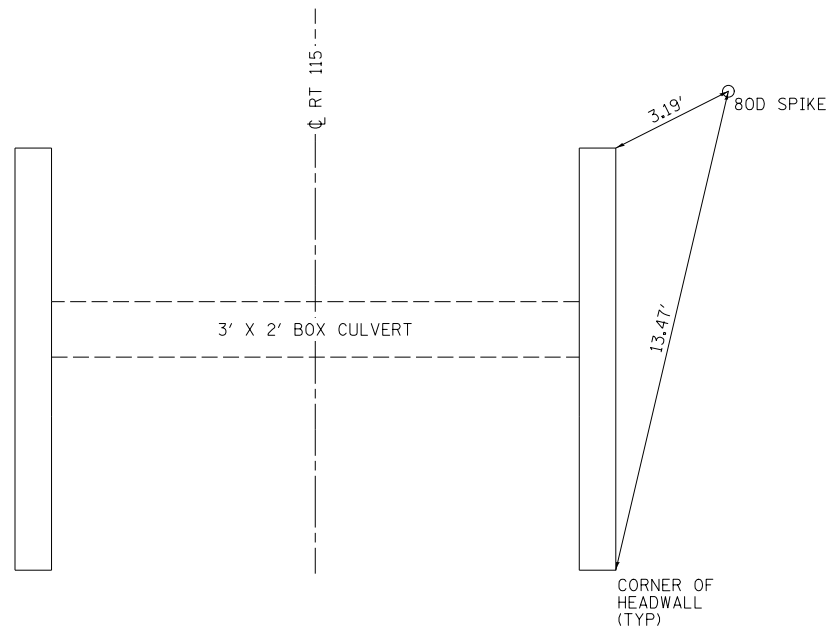
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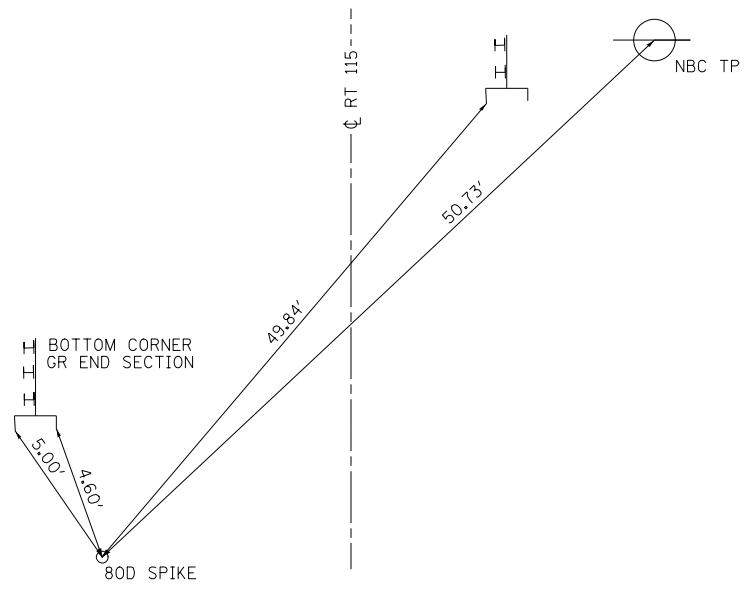
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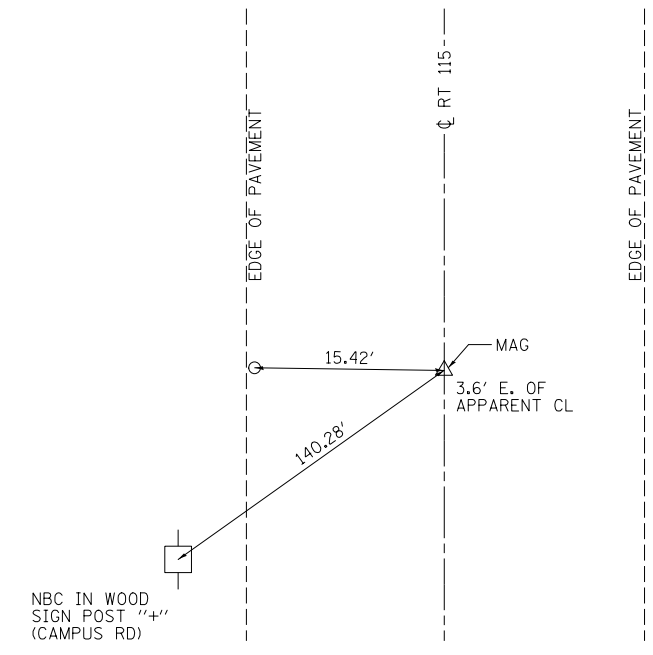
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796	104BR & BR-1	KANKAKEE	55	12
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	



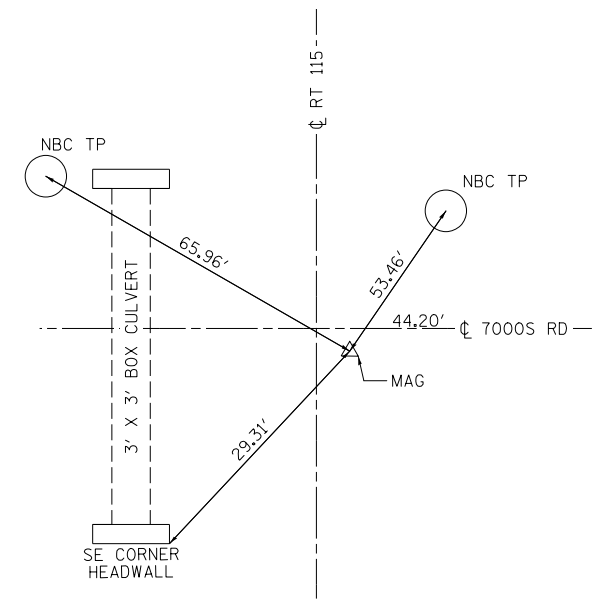
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 STA 1006+10.15, 19.14' LT,  
 5.95' LT OF EOP



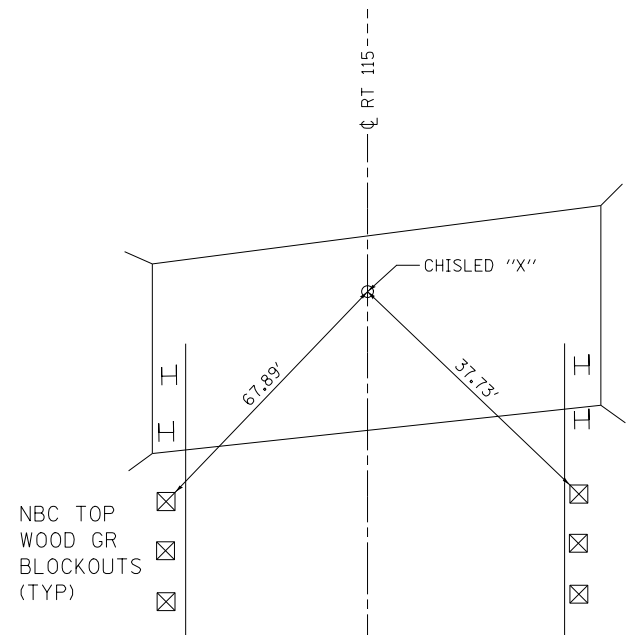
**CONTROL POINT #11542**  
 STA 987+16.05, 17.10' RT



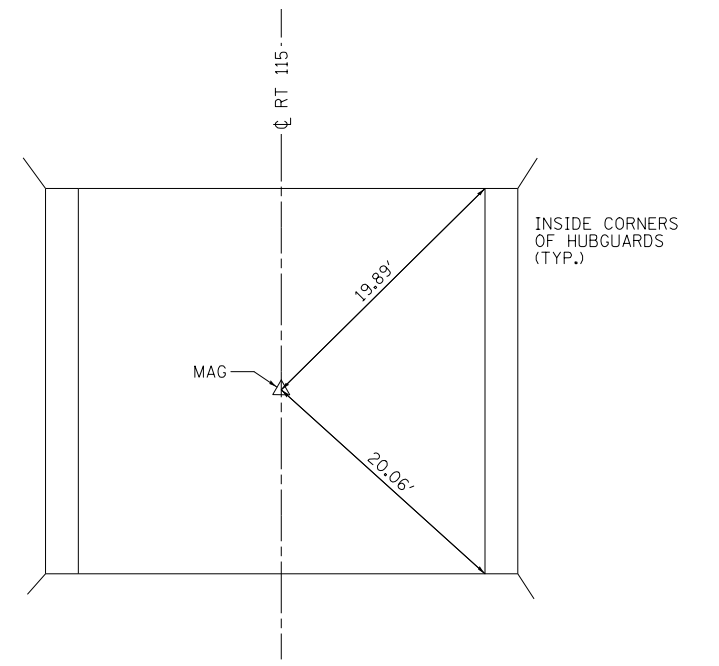
**CONTROL POINT "A"**  
 PI STA 937+60.00



**CONTROL POINT "B"**  
 PI STA 994+60.00



**CONTROL POINT "D"**  
 CL SN 0066 STA 986+00.00



**CONTROL POINT #5505**  
 CL SN 0067 STA 953+14.00

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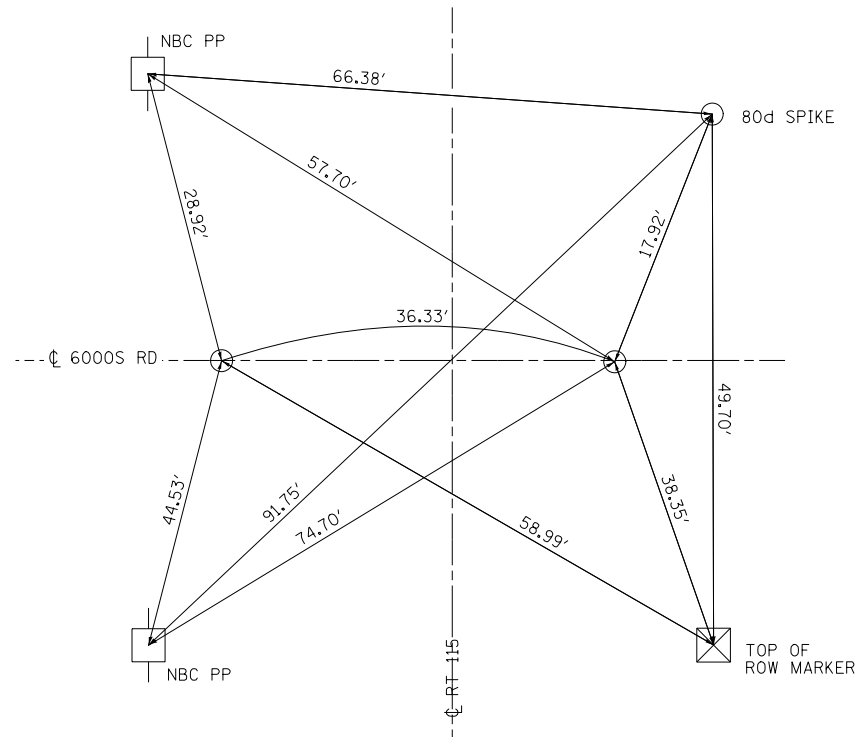
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT TIES AND BENCHMARKS**

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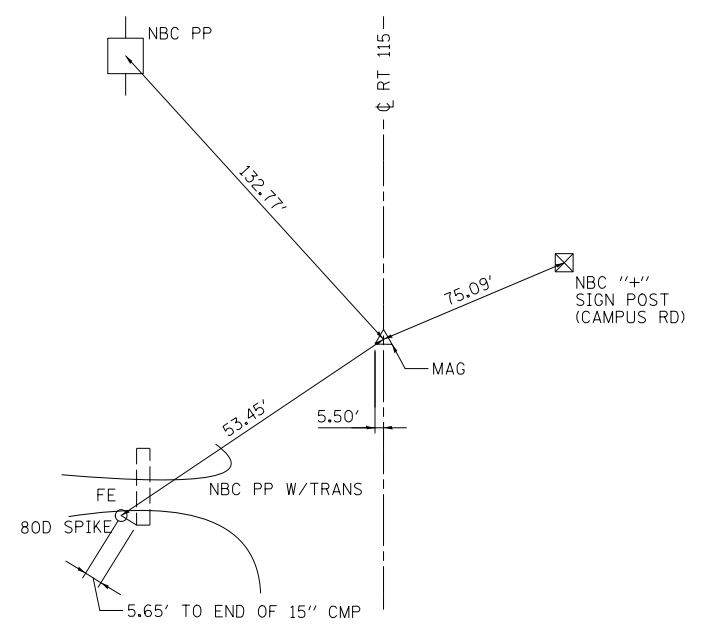
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796	104BR & BR-1	KANKAKEE	55	14
CONTRACT NO. 66B74				

ILLINOIS FED. AID PROJECT



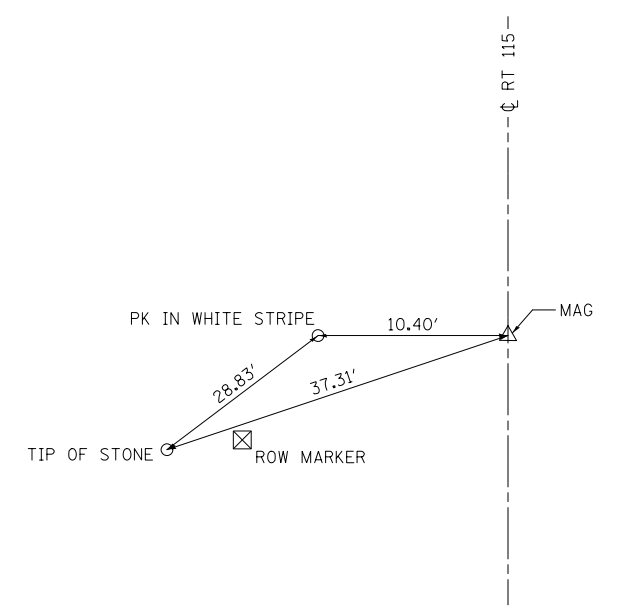
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STA 942+44.27, 33.59' LT  
 SEC COR RR SPIKE STA 942+57.21, 21.28' LT  
 SEC COR PK NAIL STA 942+58.69, 15.05' RT



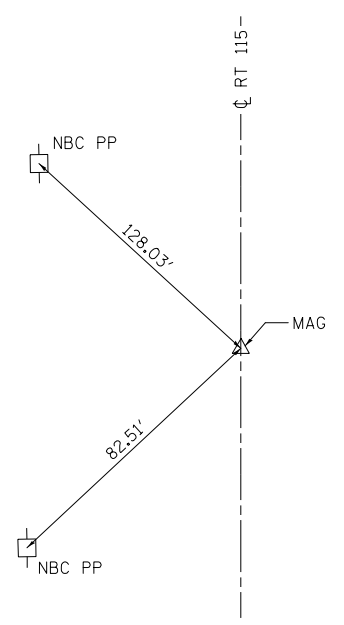
**CONTROL POINT #115040**

CP 115040 STA 948+07.96, 23.54' RT  
 PI STA 947+60.00



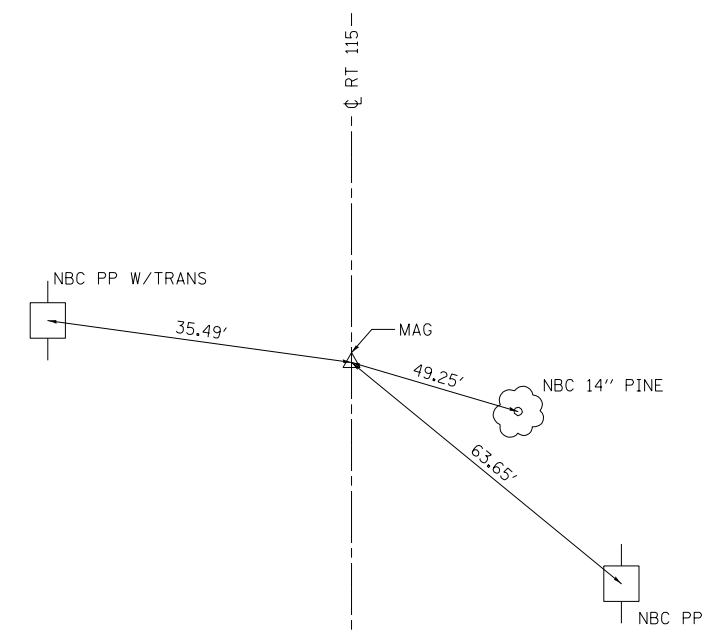
**CONTROL POINT "C"**

POT STA 981+00.00



**CONTROL POINT #5493**

POT STA 958+00.00



**CONTROL POINT "E"**

POT STA 11+46.00 CH9 = STA 100+00.00 N 30 RD  
 PI STA 965+80.00

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT TIES AND BENCHMARKS**

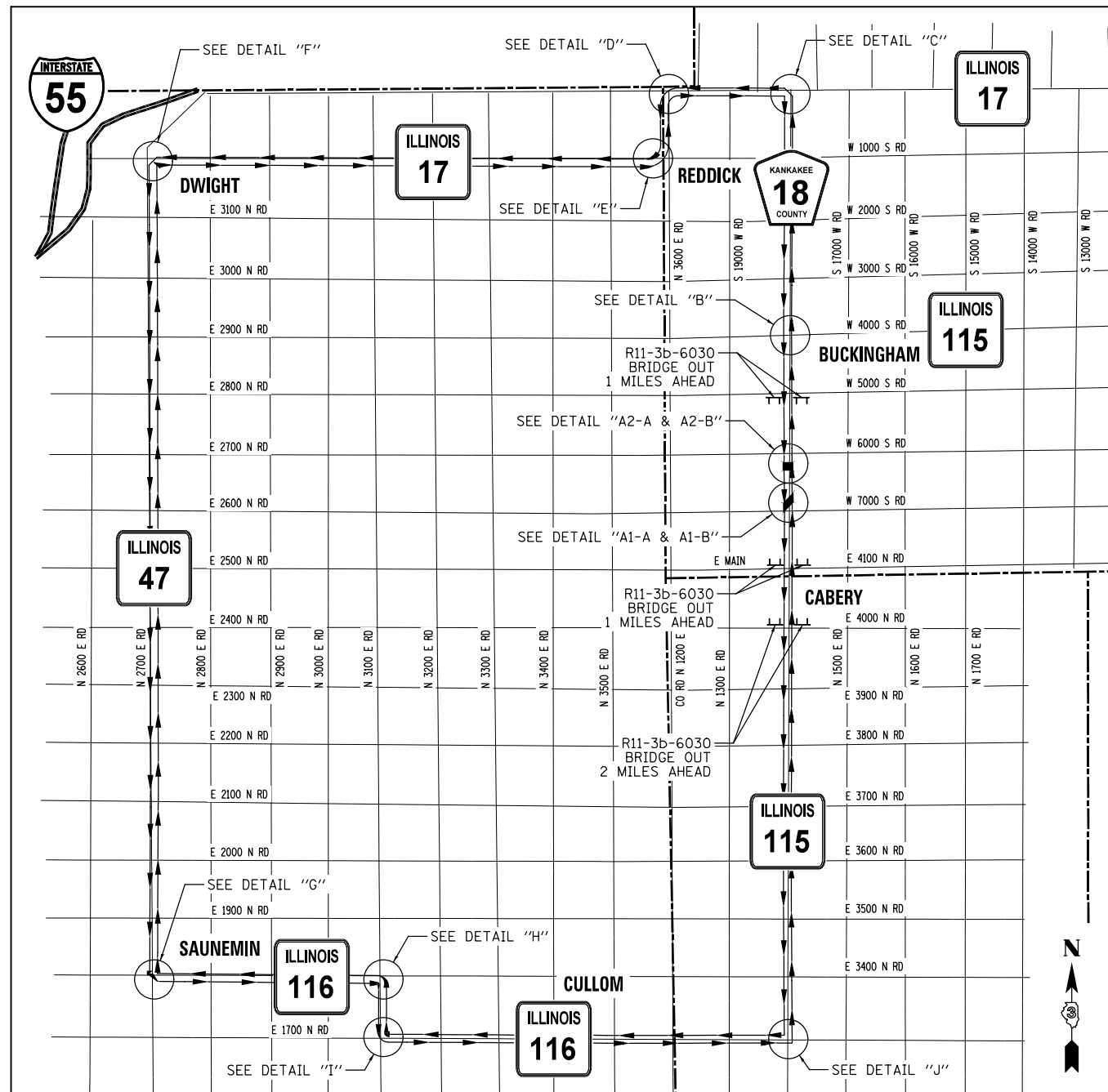
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CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				

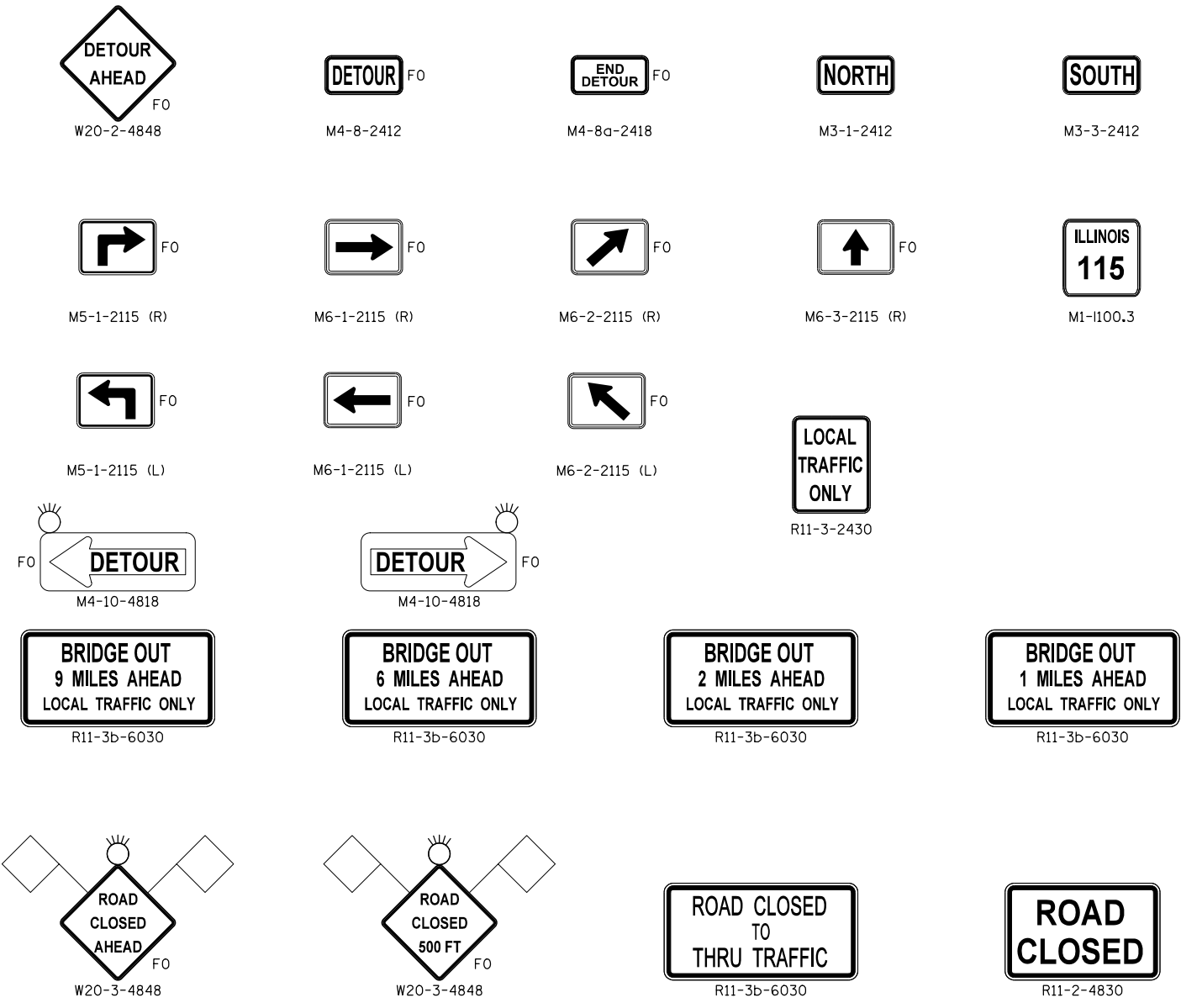








**DETOUR MAP**  
NTS



**LEGEND:**

- TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- SIGNS ON PERMANENT SUPPORTS
- 18"x18" ORANGE FLAG
- DETOUR ROUTE
- FO FLUORESCENT ORANGE
- FLASHING LIGHT
- COUNTY LINE

**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. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, THE HIGHWAY STANDARDS AND SPECIAL PROVISIONS.
5. CONTRACTOR SHALL CLOSE ONLY ONE STRUCTURE AT A TIME. LOCAL TRAFFIC WILL BE MAINTAINED TO THE AREA BETWEEN STRUCTURES.
6. CONFIRMATION DETOUR SIGNS WILL NEED TO BE INSTALLED ADJACENT TO EXISTING ROUTE MARKER SIGNS.
7. COVER OR REMOVE ANY EXISTING CONFLICTING DIRECTIONAL SIGNS. NOTE: NO DRILLING OR TAPE WILL BE ALLOWED ON THE FACE OF EXISTING SIGNS

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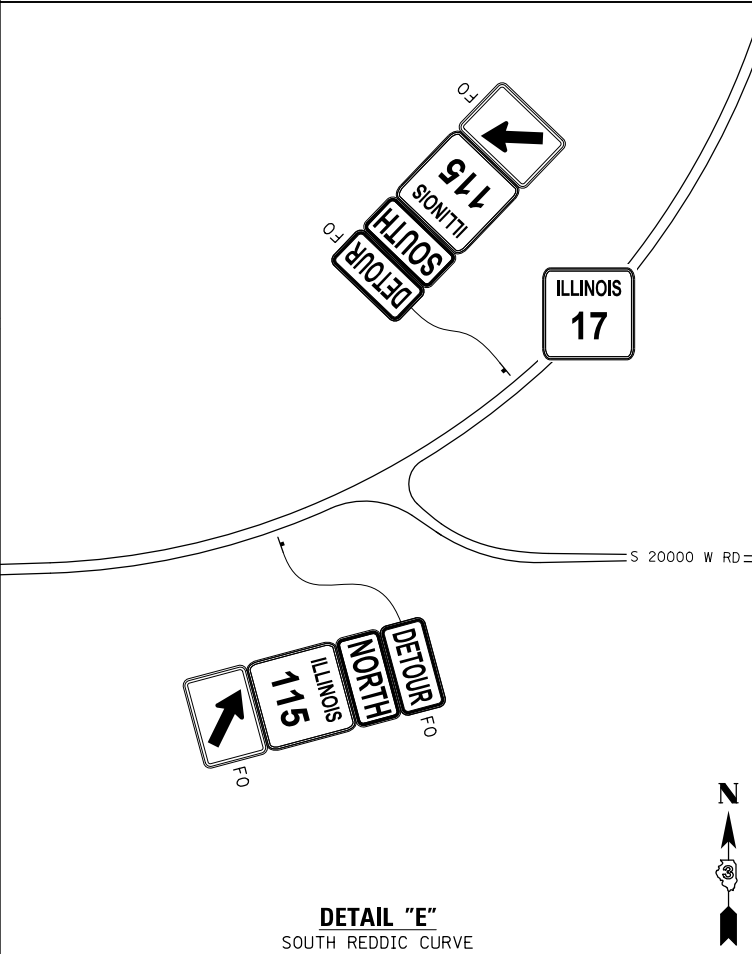
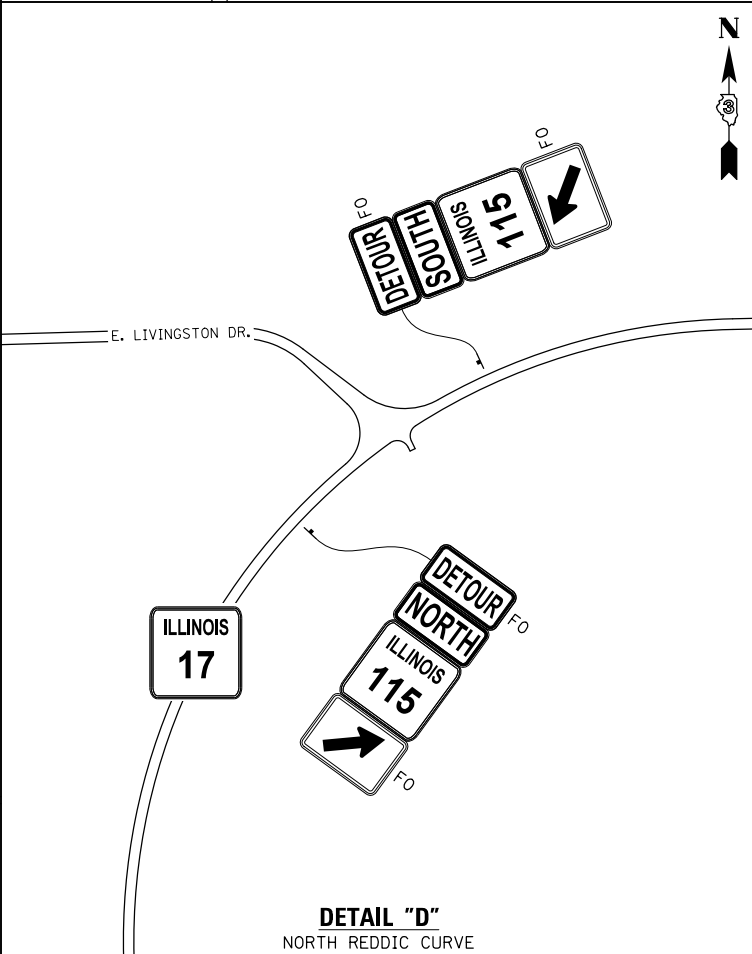
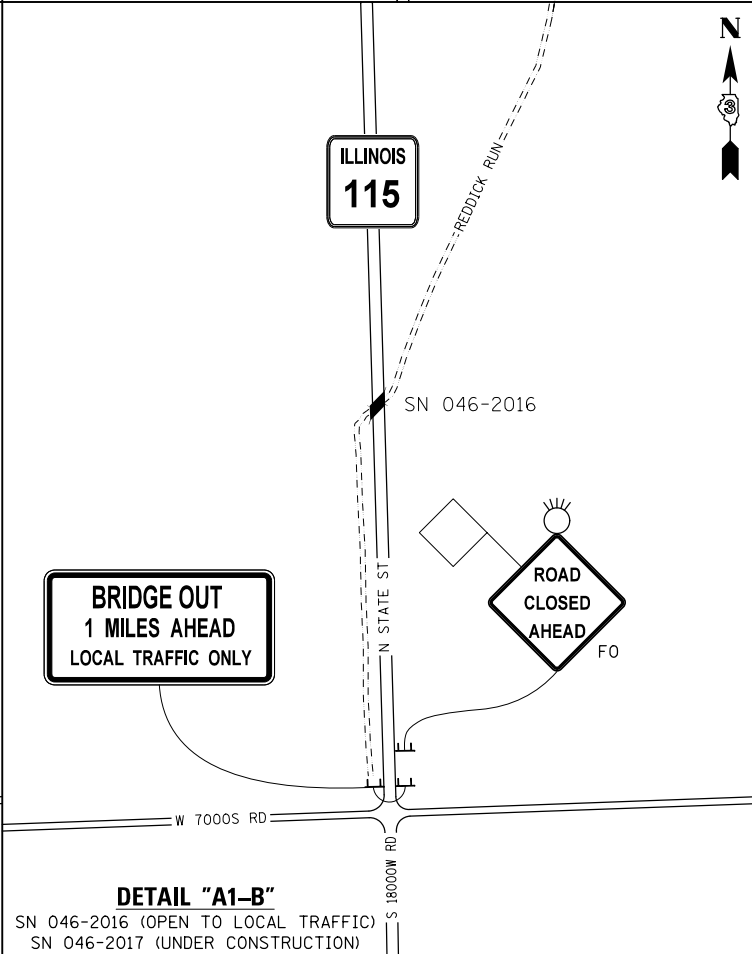
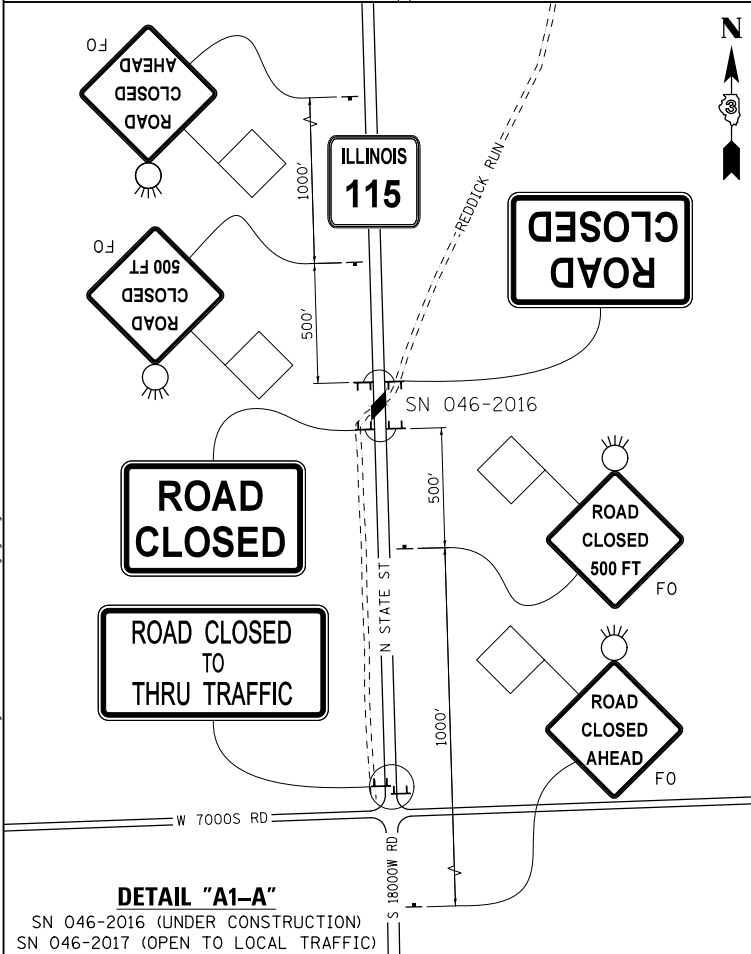
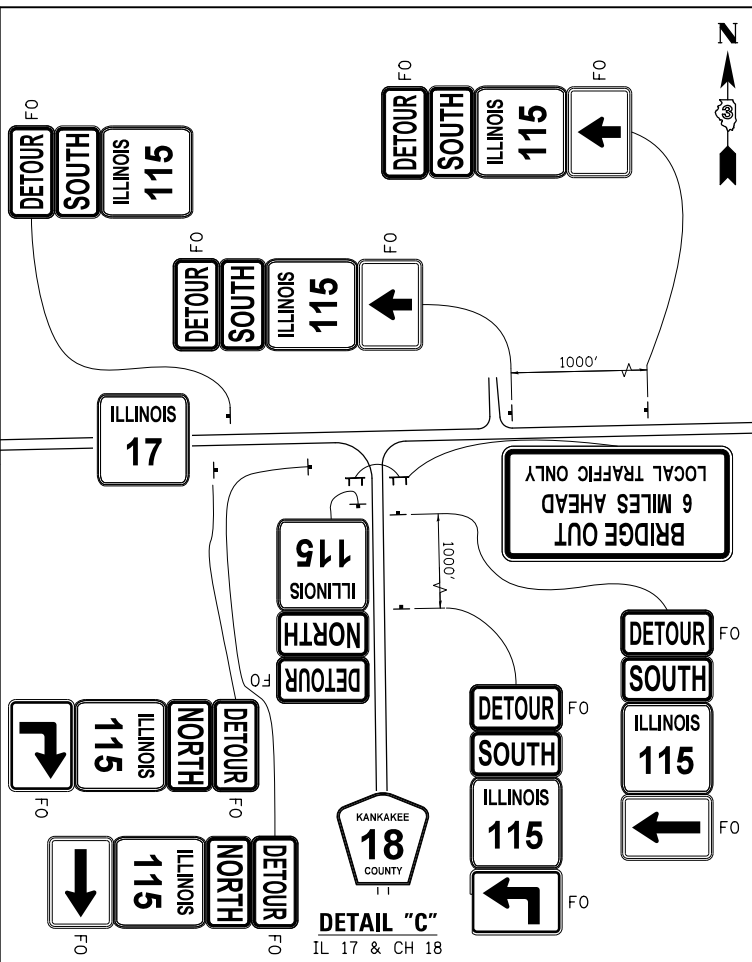
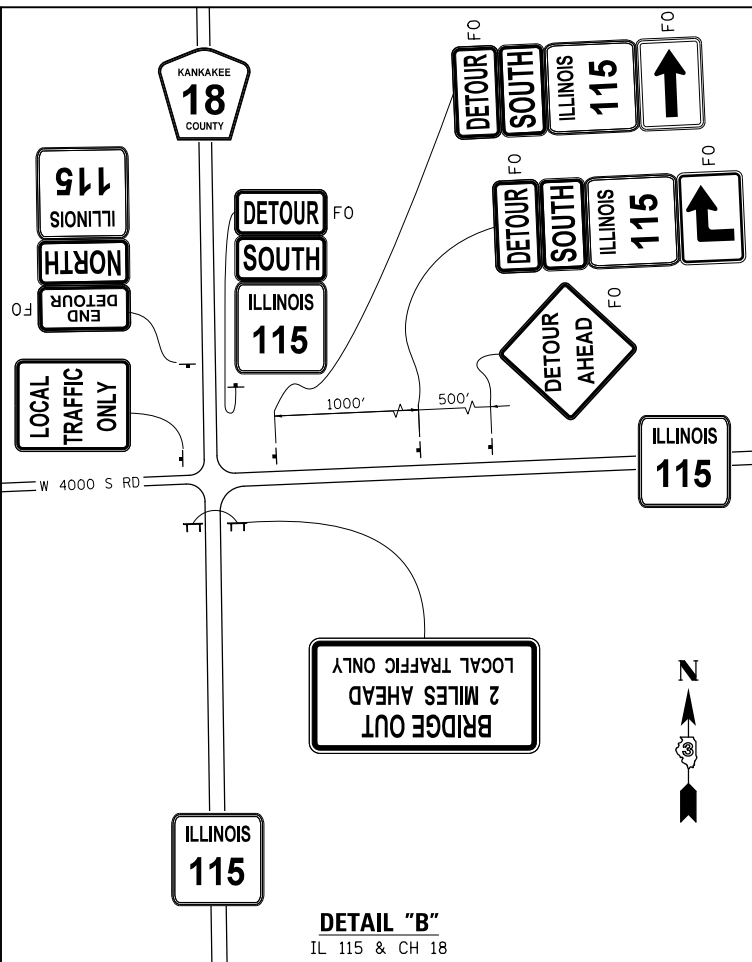
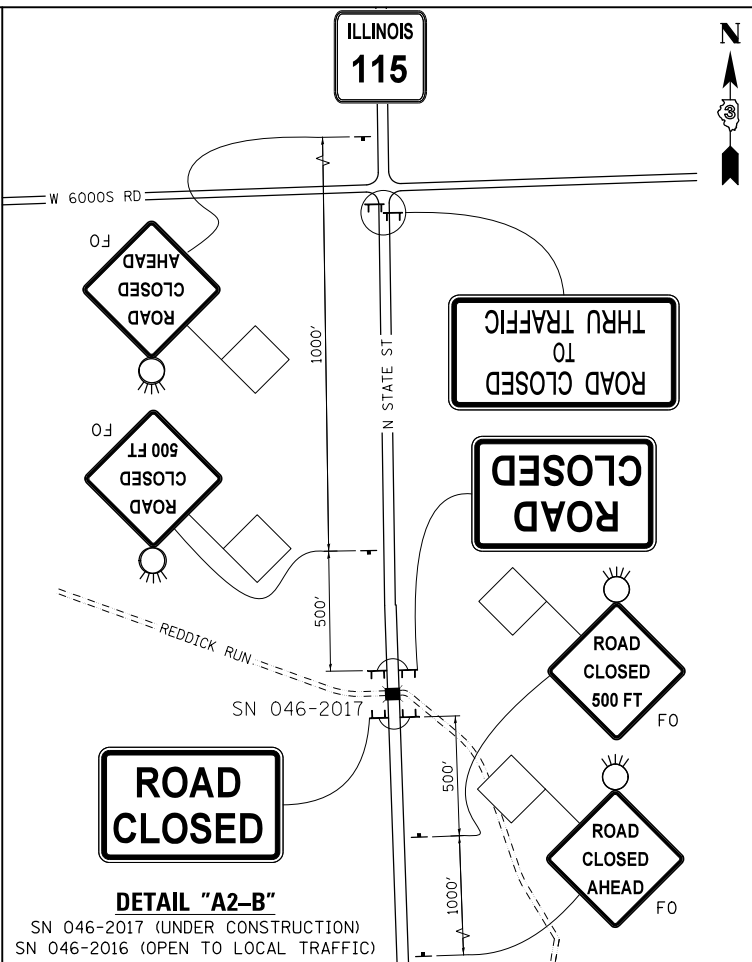
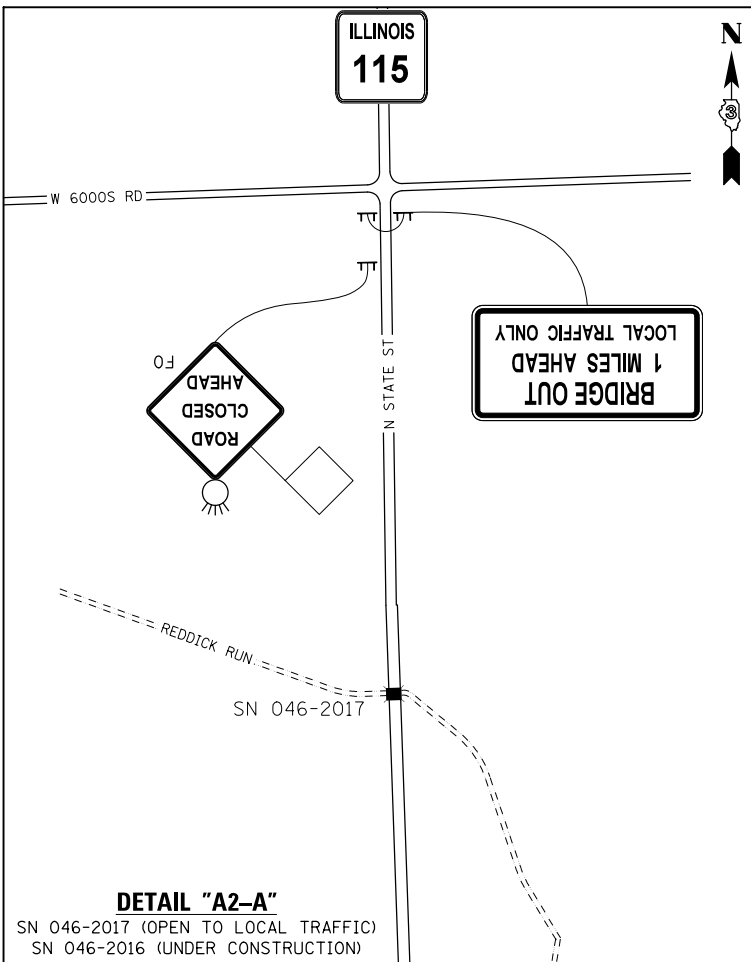
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN**

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	18
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	





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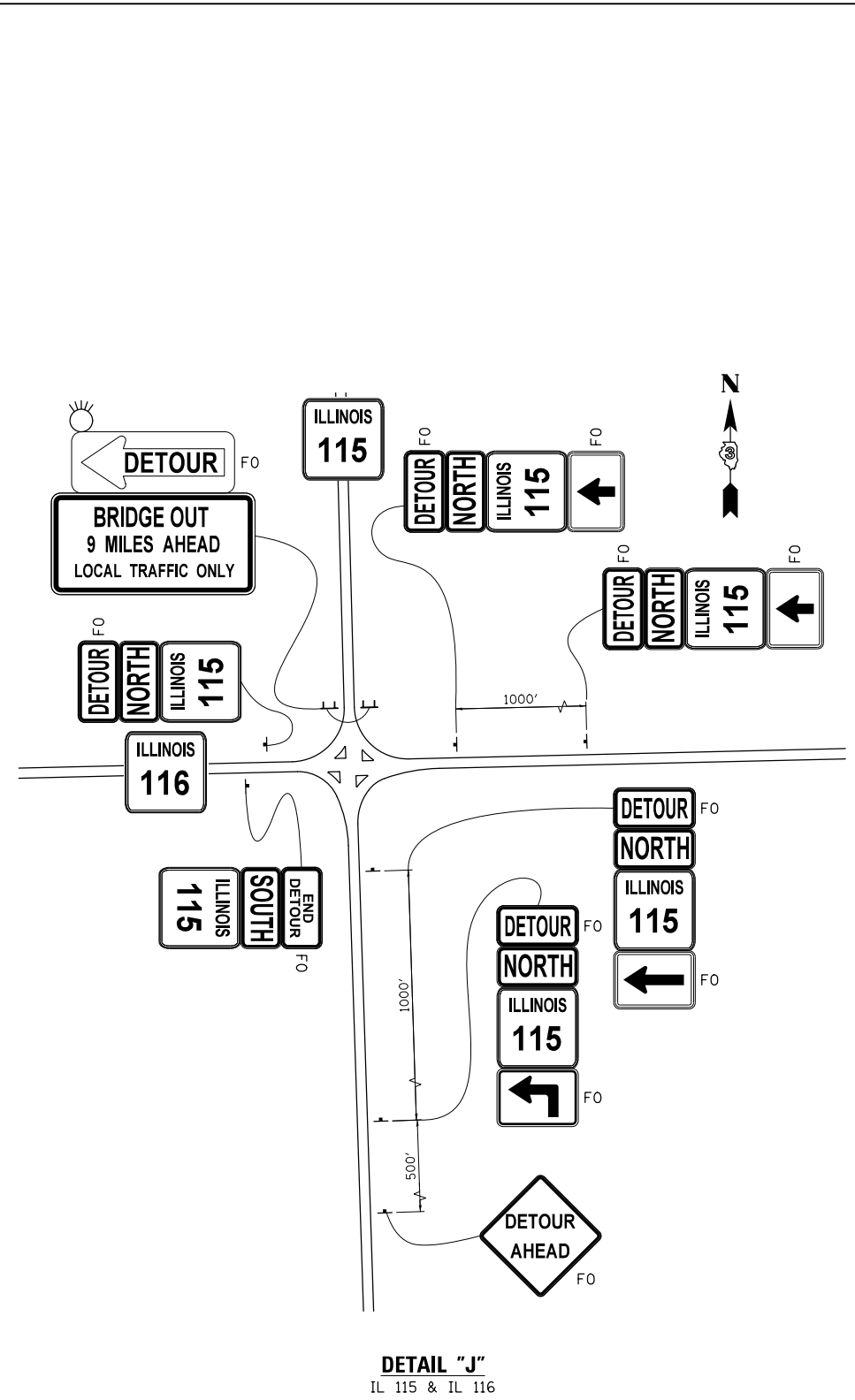
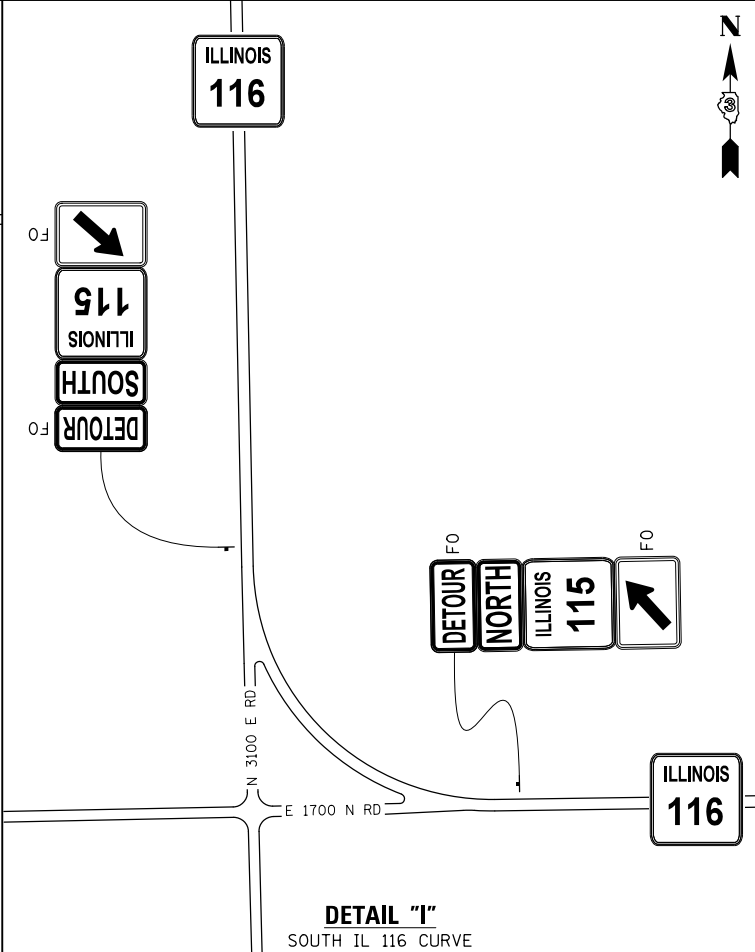
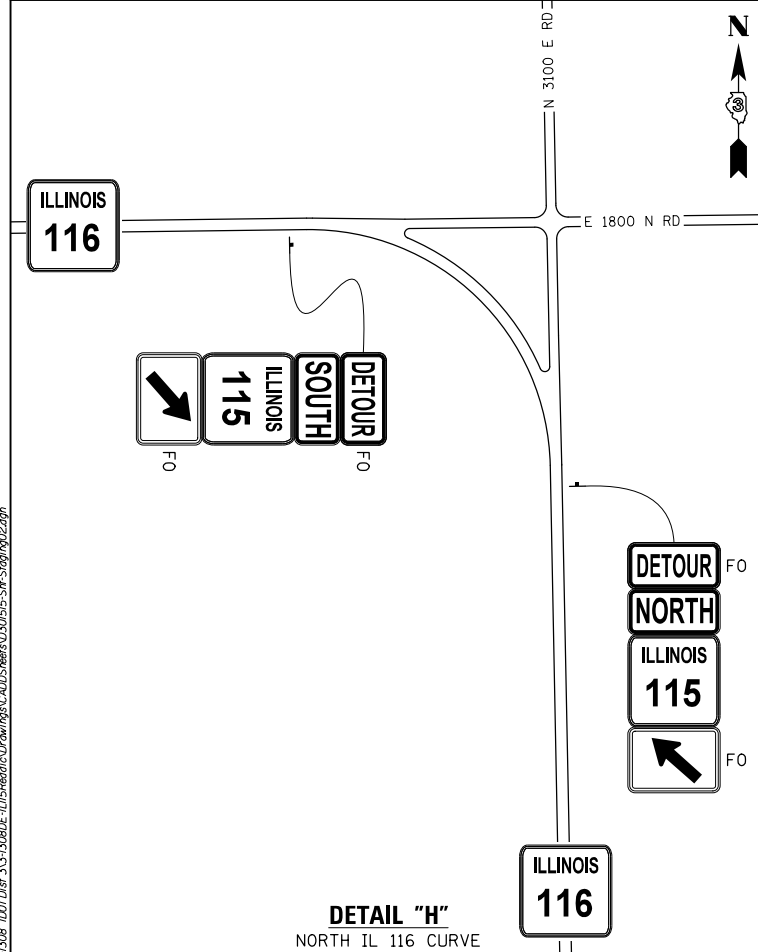
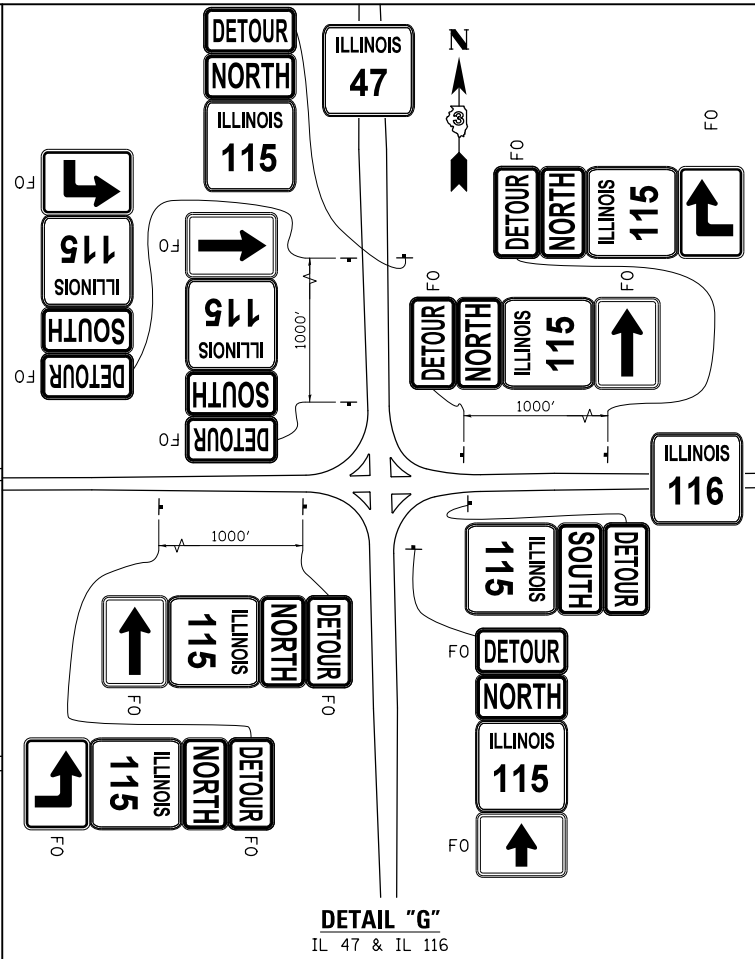
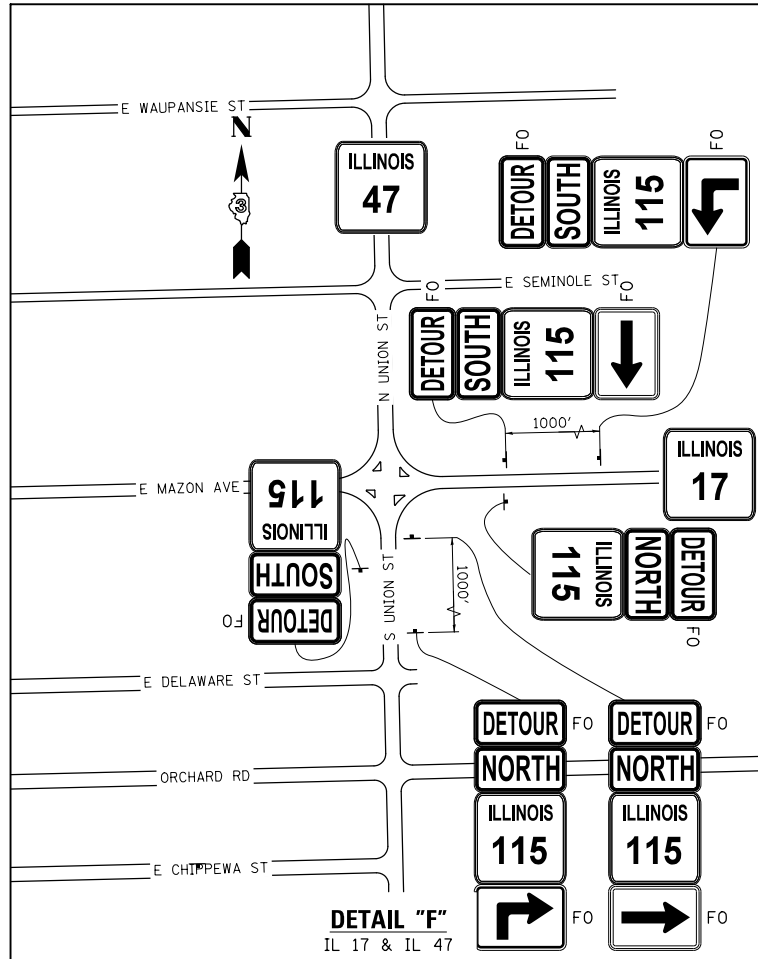


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PLOT DATE = 7/29/2015	DATE - 3/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN**  
SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	19
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	



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DESIGNED - MMO  
 DRAWN - BRL  
 CHECKED - MMO  
 DATE - 3/9/2015

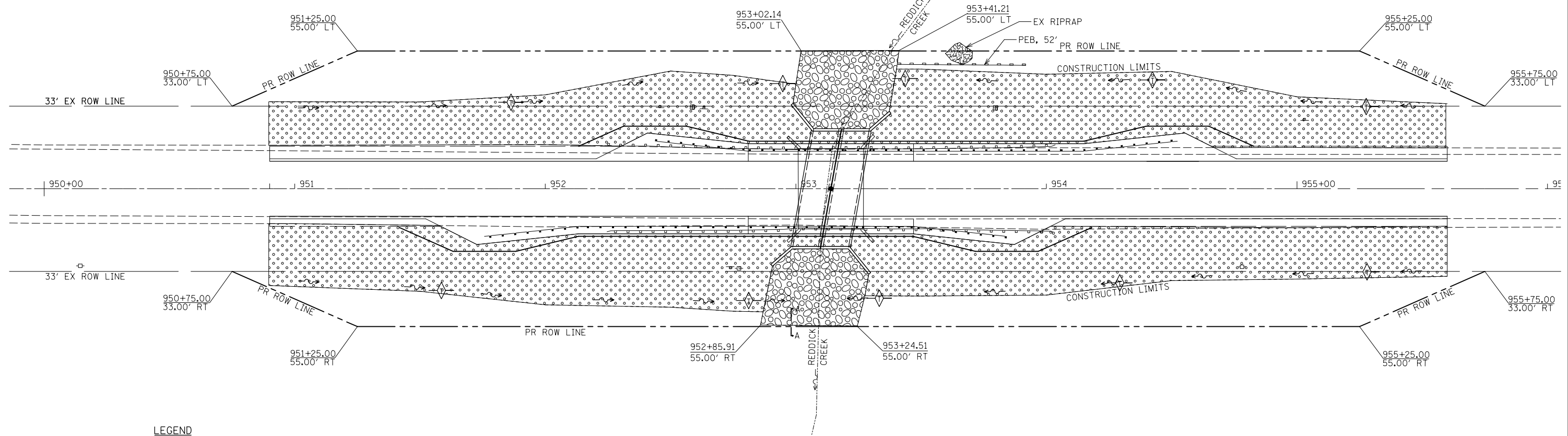
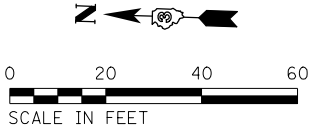
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

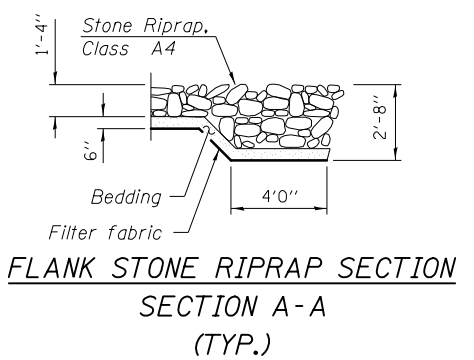
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	20
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- TEMPORARY DITCH CHECK @ 100' SPACING UNLESS OTHERWISE NOTED
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING, EROSION CONTROL BLANKET & SEEDING, CLASS 2A
- STONE RIPRAP, CLASS A4 & FILTER FABRIC (PROPOSED)
- STONE RIPRAP (EXISTING)



**NOTES**

1. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY OR PROPOSED RIGHT-OF-WAY.
2. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH 1/2" OR GREATER RAIN EVENT.

MODEL NAME: D:\road\...  
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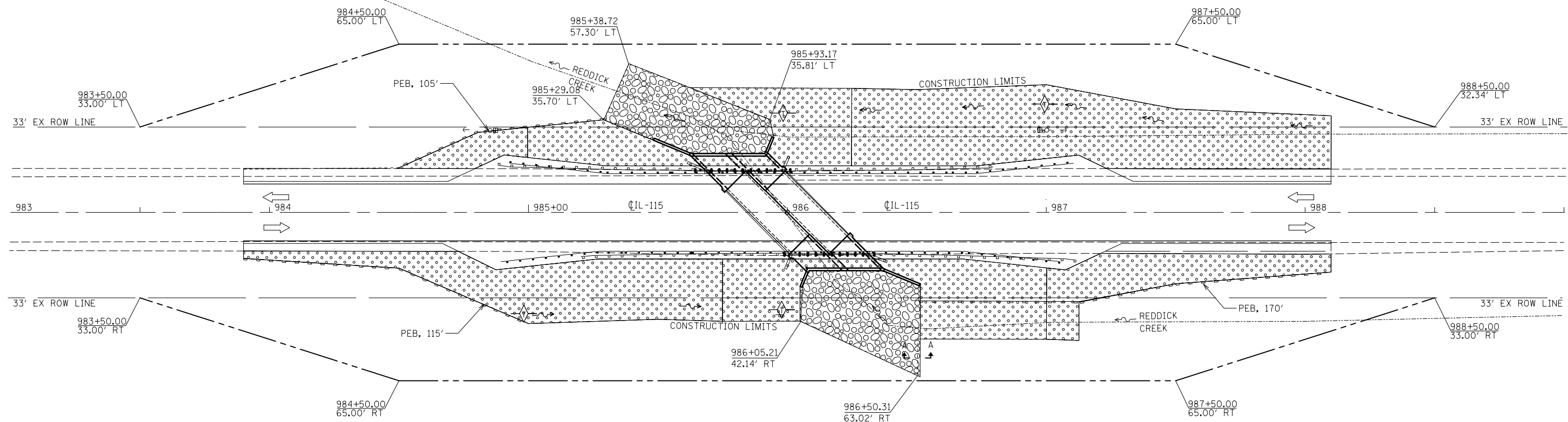
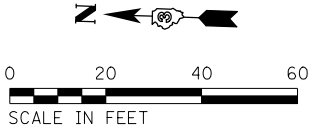
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	DRAWN - BRL	REVISED -
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PLOT DATE = 7/29/2015	DATE - 3/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN  
STRUCTURE NO. 046-2017**

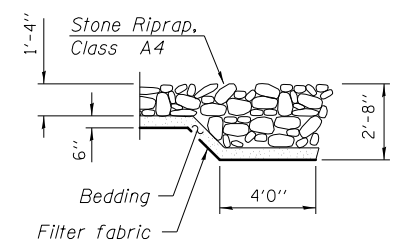
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	21
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	



**LEGEND**

- TEMPORARY DITCH CHECK @ 100' SPACING UNLESS OTHERWISE NOTED
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING, EROSION CONTROL BLANKET & SEEDING, CLASS 2A
- STONE RIPRAP, CLASS A4 & FILTER FABRIC (PROPOSED)



**FLANK STONE RIPRAP SECTION  
SECTION A-A  
(TYP.)**

**NOTES**

1. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY OR PROPOSED RIGHT-OF-WAY.
2. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH 1/2" OR GREATER RAIN EVENT.

MODEL NAME: Default  
 FILE NAME: F:\31508\DOT\DOT\31-13080E\115\Fabric\Drawings\04605sheet030515-Str\_erosion.dwg



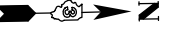
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PLOT SCALE = 40.0000' / in.	DRAWN - BRL	REVISED -
PLOT DATE = 7/29/2015	CHECKED - MMO	REVISED -
	DATE - 3/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL PLAN STRUCTURE NO. 046-2016</b>			
SCALE: 1" = 20'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	22
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	

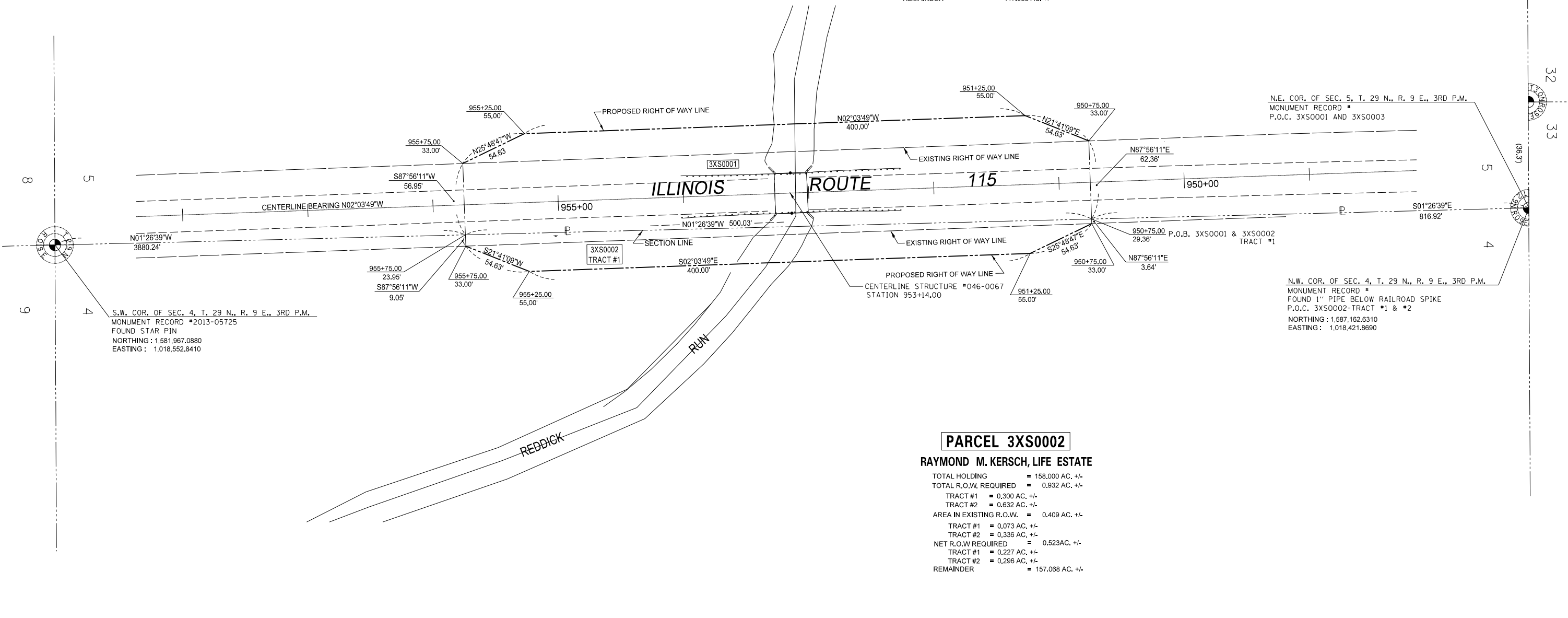
NORTHEAST 1/4 OF SEC. 5,  
T. 29 N., R. 9 E., 3RD P.M.



**PARCEL 3XS0001**

LEE CLEMENT SCHROCK, TRUSTEE, ET AL

TOTAL HOLDING = 118,900 AC. +/-  
 TOTAL R.O.W. REQUIRED = 0,921 AC. +/-  
 AREA IN EXISTING R.O.W. = 0,682 AC. +/-  
 NET R.O.W. AREA = 0,230 AC. +/-  
 REMAINDER = 117,988 AC. +/-



S.W. COR. OF SEC. 4, T. 29 N., R. 9 E., 3RD P.M.  
 MONUMENT RECORD #2013-05725  
 FOUND STAR PIN  
 NORTHING: 1,581,967.0880  
 EASTING: 1,018,552.8410

N.E. COR. OF SEC. 5, T. 29 N., R. 9 E., 3RD P.M.  
 MONUMENT RECORD #  
 P.O.C. 3XS0001 AND 3XS0003

N.W. COR. OF SEC. 4, T. 29 N., R. 9 E., 3RD P.M.  
 MONUMENT RECORD #  
 FOUND 1" PIPE BELOW RAILROAD SPIKE  
 P.O.C. 3XS0002-TRACT #1 & #2  
 NORTHING: 1,587,162.6310  
 EASTING: 1,018,421.8690

**PARCEL 3XS0002**

RAYMOND M. KERSCH, LIFE ESTATE

TOTAL HOLDING = 158,000 AC. +/-  
 TOTAL R.O.W. REQUIRED = 0,932 AC. +/-  
 TRACT #1 = 0,300 AC. +/-  
 TRACT #2 = 0,632 AC. +/-  
 AREA IN EXISTING R.O.W. = 0,409 AC. +/-  
 TRACT #1 = 0,073 AC. +/-  
 TRACT #2 = 0,336 AC. +/-  
 NET R.O.W. REQUIRED = 0,523 AC. +/-  
 TRACT #1 = 0,227 AC. +/-  
 TRACT #2 = 0,296 AC. +/-  
 REMAINDER = 157,068 AC. +/-

**SURVEYOR'S STATEMENT**

I, JEFFERY J. CIMEI, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS. THAT THE SURVEY OF F.A.P. 796 (IL 115) WAS MADE BY ME OR UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



BY: JEFFERY J. CIMEI, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3733 (EXPIRES NOV. 2016) DATED: \_\_\_\_\_

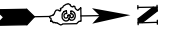
NORTHWEST 1/4 OF SEC. 4,  
T. 29 N., R. 9 E., 3RD P.M.

NOTE: BEARINGS AND DISTANCES ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, (GRID) EAST ZONE, (NAD-83, 2011 ADJ.).  
 ALL AREAS ARE BASED ON GROUND MEASUREMENTS  
 COMBINED FACTOR = 0.99994653  
 TOTAL HOLDING AREA TAKEN FROM TAX ASSESSOR (NOT SURVEYED)



FILE NAME F:\3-1308 IDOT\1st 3\3-1308DE-IL115Reddic	USER NAME = hferrera	DESIGNED - JJC	REVISED 01-22-15 JJC PROPOSED R.O.W.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS		F.A.P. RTE. 796	SECTION 104 BR & BR-1	COUNTY KANKAKEE	TOTAL SHEETS 55	SHEET NO. 23
	DRAWING\CAD\Drawings\0301515-Sht-ROW01.dgn	DRAWN - JJC	REVISED -		PROJECT	JOB NO. R-93-014-13	CONTRACT NO. 66B74		ILLINOIS FED. AID PROJECT		
	PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -	SCALE: 1" = 40'	SHEET 1 OF 2 SHEETS	STA. 950+75.00 TO STA. 955+75.00					
	PLOT DATE = 7/29/2015	DATE -	REVISED -								

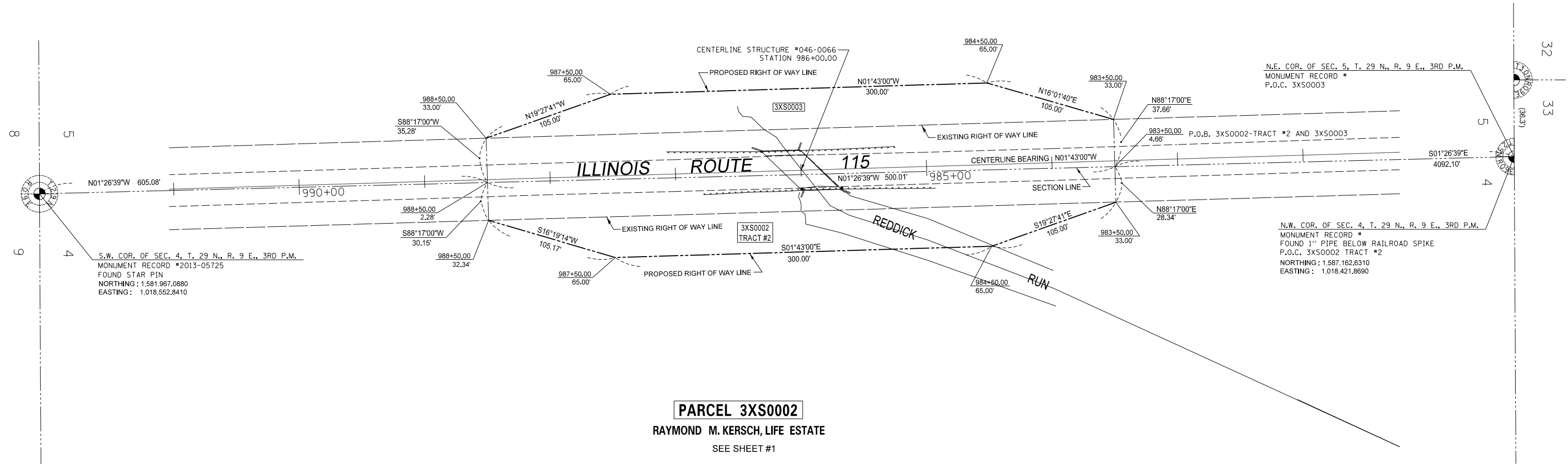
SOUTHEAST 1/4 OF SEC. 5,  
T. 29 N., R. 9 E., 3RD P.M.



**PARCEL 3XS0003**

WAYNE SIEDENTOP

TOTAL HOLDING = 20.000 AC. +/-  
TOTAL R.O.W. REQUIRED = 0.714 AC. +/-  
AREA IN EXISTING R.O.W. = 0.419 AC. +/-  
NET R.O.W. AREA = 0.295 AC. +/-  
REMAINDER = 19.286 AC. +/-



**PARCEL 3XS0002**

RAYMOND M. KERSCH, LIFE ESTATE

SEE SHEET #1

**SURVEYOR'S STATEMENT**

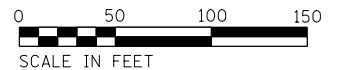
I, JEFFERY J. CIMEI, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS. THAT THE SURVEY OF F.A.P. 796 (IL 115) WAS MADE BY ME OR UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



BY: JEFFERY J. CIMEI, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3733 (EXPIRES NOV. 2016) DATED: \_\_\_\_\_

SOUTHWEST 1/4 OF SEC. 4,  
T. 29 N., R. 9 E., 3RD P.M.

NOTE: BEARINGS AND DISTANCES ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, (GRID) EAST ZONE, (NAD-83, 2011 ADJ.).  
ALL AREAS ARE BASED ON GROUND MEASUREMENTS  
COMBINED FACTOR = 0.99994653  
TOTAL HOLDING AREA TAKEN FROM TAX ASSESSOR (NOT SURVEYED)

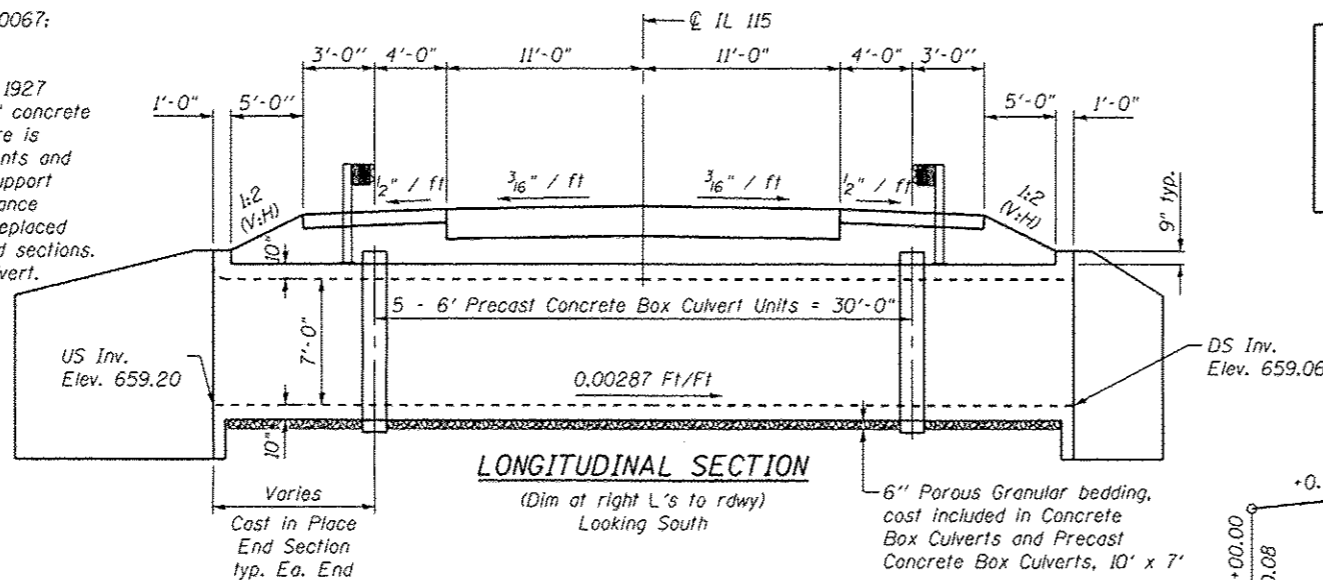


FILE NAME F:\3-1308 10DOTdist 3\3-1308DE-IL115Reddic	USER NAME = hferrera Drawings\CADD\Sheets\0301515-Sht-ROW01.dgn	DESIGNED - JJC DRAWN - JJC	REVISED REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIGHT OF WAY PLANS</b>		F.A.P. RTE. 796	SECTION 104 BR & BR-1	COUNTY KANKAKEE	TOTAL SHEETS 55	SHEET NO. 24
PLOT SCALE = 80.0000' / in.	CHECKED -	REVISED -	SCALE: 1" = 40'		PROJECT SHEET 2 OF 2 SHEETS	JOB NO. R-93-014-13 STA. 983+50.00 TO STA. 988+50.00	CONTRACT NO. 66B74				
PLOT DATE = 7/29/2015	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

Benchmark: Chiseled square northwest corner SN 046-0067;  
Sta. 953+27.20, 17.69' L1., Elev. 670.04.

Existing Structure: S.N. 046-0067 was constructed in 1927 as SBI Route 115, Section 104B and consists of a 16.5" concrete slab with a 4" bituminous overlay. The existing structure is 26'-0" back to back of existing closed concrete abutments and 32'-2" out to out of deck with a 0° skew. In 2012 support beams were installed to support the deck under Maintenance Contract 66C30. The structure is to be removed and replaced with a precast double box culvert with cast in place end sections. Traffic is to be detoured during construction of the culvert.

Salvage: The steel support system underneath the existing deck shall be carefully removed as directed by the Resident Engineer. The structural steel (I-beams) shall be salvaged and delivered to the Kankakee maintenance yard as directed by the Resident Engineer. The Resident Engineer shall coordinate with the Kankakee maintenance yard field technician for the location and placement of the beams. The Contractor will supply the necessary equipment to offload and place the steel beams as directed by the Field Technician. This work will be included in the pay item "Removal of Existing Structures No. 1."



STATION 953+14  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RT. 796 SEC. 104 BR  
LOADING HL-93  
STRUCTURE NO. 046-2017

NAME PLATE  
See Std. 515001

**GENERAL NOTES**

Precast Concrete Box Culverts Sections shall conform to the requirements of ASTM C1577.  
Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.  
Reinforcement bars designated (E) shall be epoxy coated.  
See Erosion Control Plan Sheet for layout of Stone Riprap, Class A4.  
Quantities for Stone Riprap are included in the Roadway Plans.

**INDEX OF SHEETS**

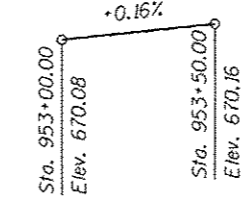
- 1 General Plan and Elevation
- 2-3 Culvert Details
- 4 Guardrail Attachment Details
- 5 Boring Logs

**WATERWAY INFORMATION**

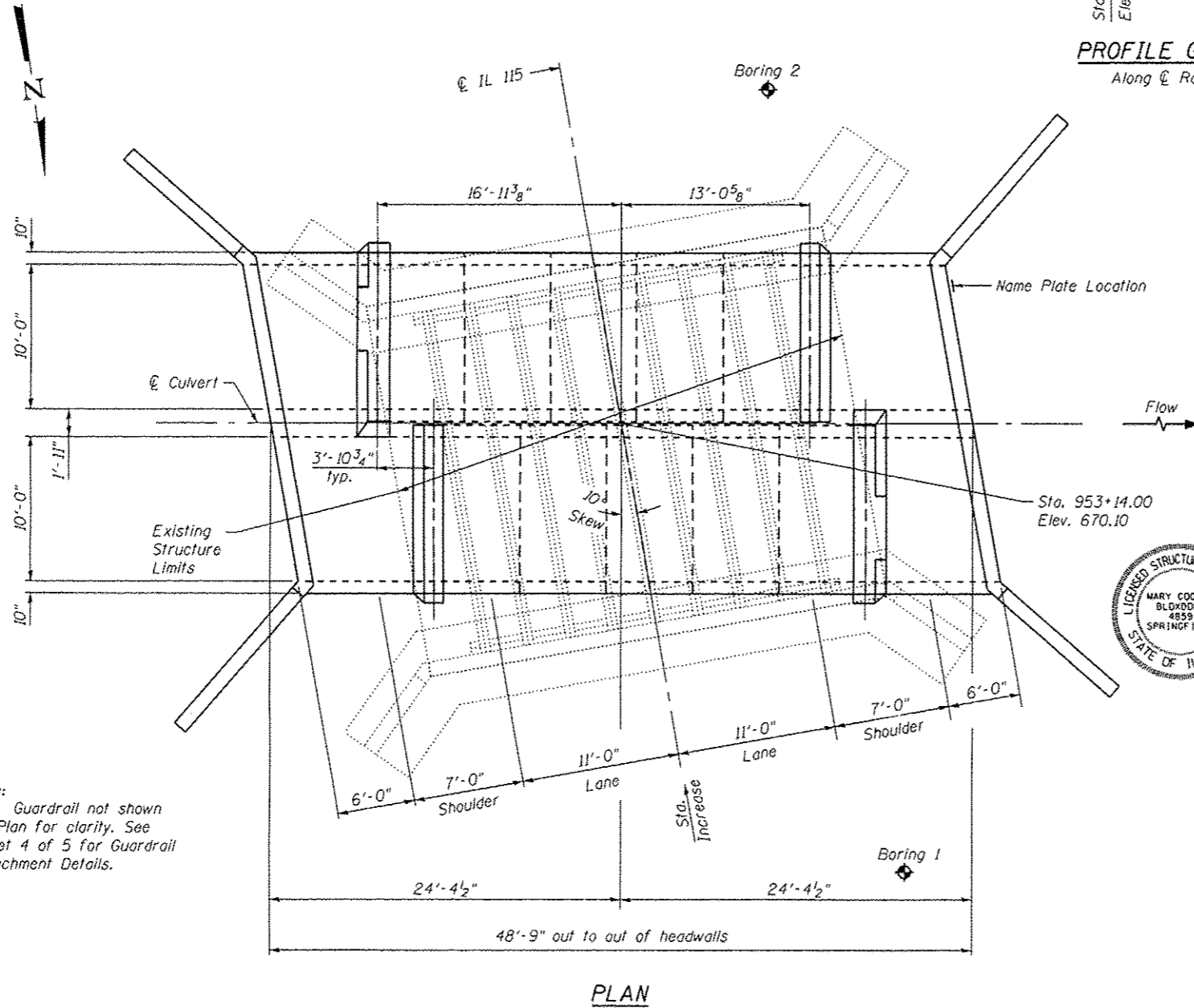
Drainage Area = 1.58 Sq. Mi.      Exist. Low Grade El. 669.31 @ Sta. 952+00  
Prop. Low Grade El. 669.31 @ Sta. 952+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	177	91	96	664.5	0.0	0.0	664.5	664.5
Base	50	261	109	111	665.2	0.0	0.0	665.2	665.2
Max. Calc.	100	295	115	116	665.5	0.0	0.0	665.5	665.5
Overtopping	500	373	123	123	665.8	0.0	0.0	665.9	665.8
Overtopping	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

10-year velocity exist. 2.1 fps      10-year velocity prop. 1.7 fps



PROFILE GRADE  
Along & Rdwy.



Note: Guardrail not shown on Plan for clarity. See Sheet 4 of 5 for Guardrail Attachment Details.

**LOADING HL-93**

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

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 6th Edition

**DESIGN STRESSES**

**PRECAST UNITS**

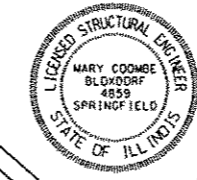
f'c = 5,000 psi  
fy = 65,000 psi (Welded Wire Fabric)

**FIELD UNITS**

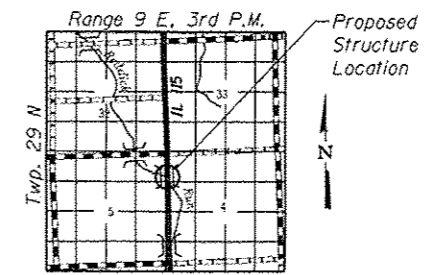
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1
Precast Concrete Box Culverts 10' x 7'	Foot	60
Concrete Box Culverts	Cu. Yd.	69.9
Steel Plate Beam Guardrail Attached to Structures	Foot	55
Name Plates	Each	1
Reinforcement Bars, Epoxy Coated	Pound	12,420



ILLINOIS STRUCTURAL NO. 4859  
EXPIRES 11/30/16  
DATE: 07/21/2015



LOCATION SKETCH

**GENERAL PLAN AND ELEVATION  
IL ROUTE 115 OVER REDDICK CREEK**

F.A.P. RT. 796 - SEC. 104BR  
KANKAKEE COUNTY  
STATION 953+14.00  
STRUCTURE NO. 046-2017

FILE NAME: C:\Users\hcoombe\Documents\2015\115\115-046-2017.dgn  
PROJECT NO. 115-046-2017

**Coombe-Bloxdorf P.C.**  
- CIVIL ENGINEERS -  
- STRUCTURAL ENGINEERS -  
- LAND SURVEYORS -  
Design Firm License No. 104-002703

USER NAME: hco	DESIGNED: AMC	REVISED:
PLOT SCALE: 1/8" = 1'-0"	CHECKED: MCB	REVISED:
PLOT DATE: 7/24/2015	DRAWN: CFC	REVISED:
	CHECKED: CME	REVISED:

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
STRUCTURE NO. 046-2017  
SHEET NO. 1 OF 5 SHEETS

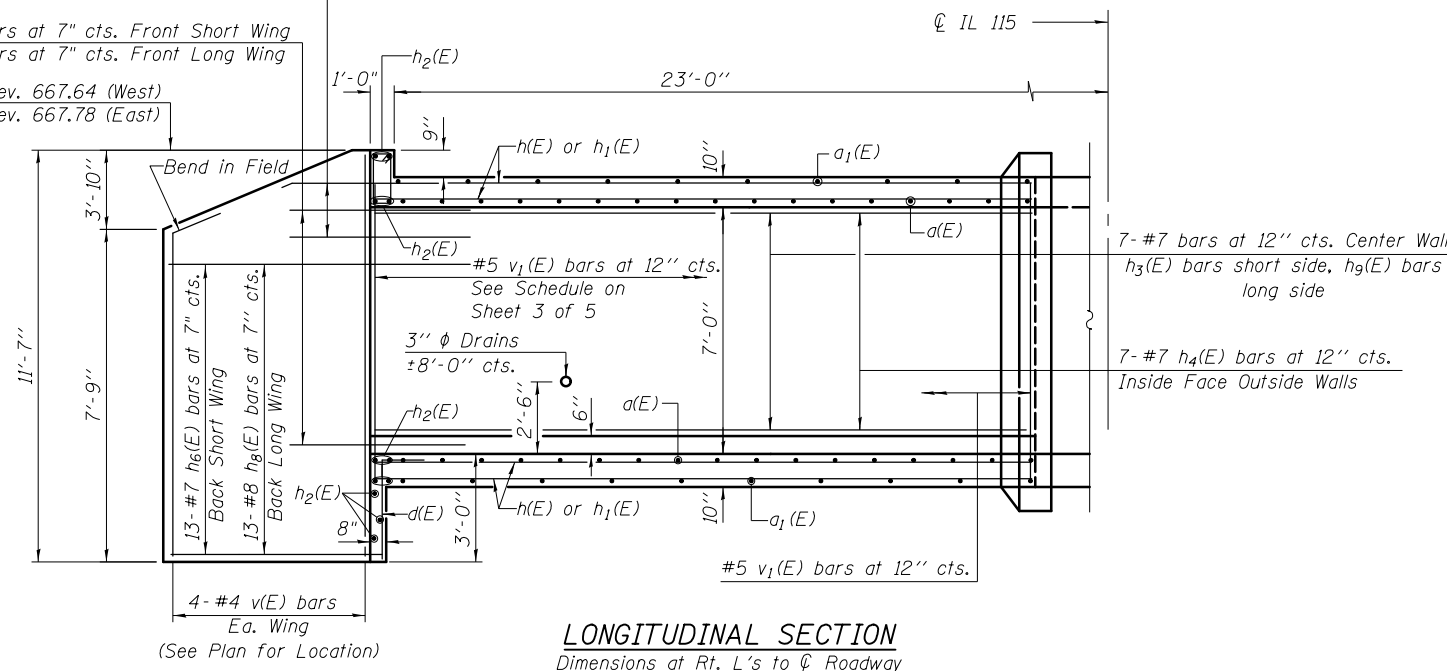
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR	KANKAKEE	55	25
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				



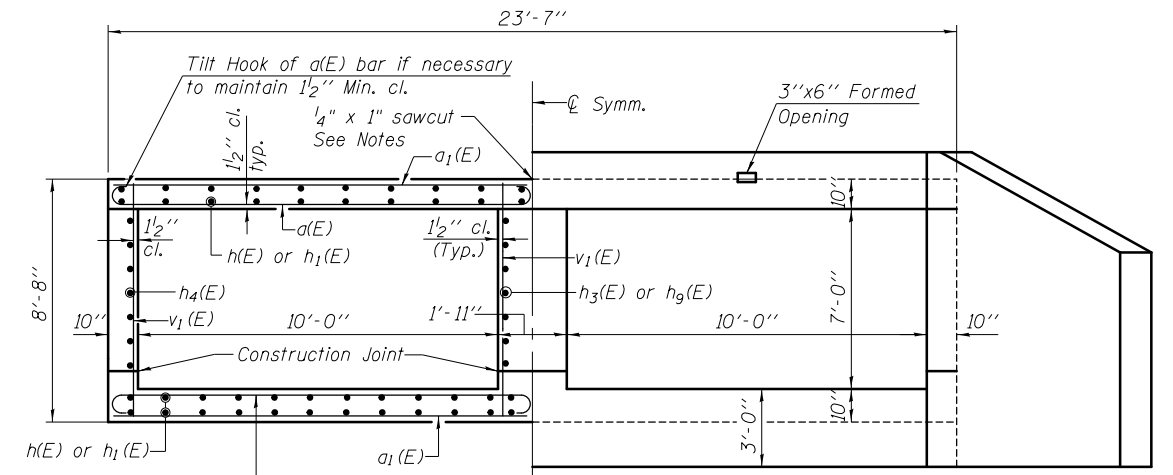
6- #7 h<sub>5</sub>(E) bars at 7" cts. Back Short Wing  
6- #8 h<sub>7</sub>(E) bars at 7" cts. Back Long Wing

13- #7 h<sub>5</sub>(E) bars at 7" cts. Front Short Wing  
13- #8 h<sub>7</sub>(E) bars at 7" cts. Front Long Wing

Elev. 667.64 (West)  
Elev. 667.78 (East)

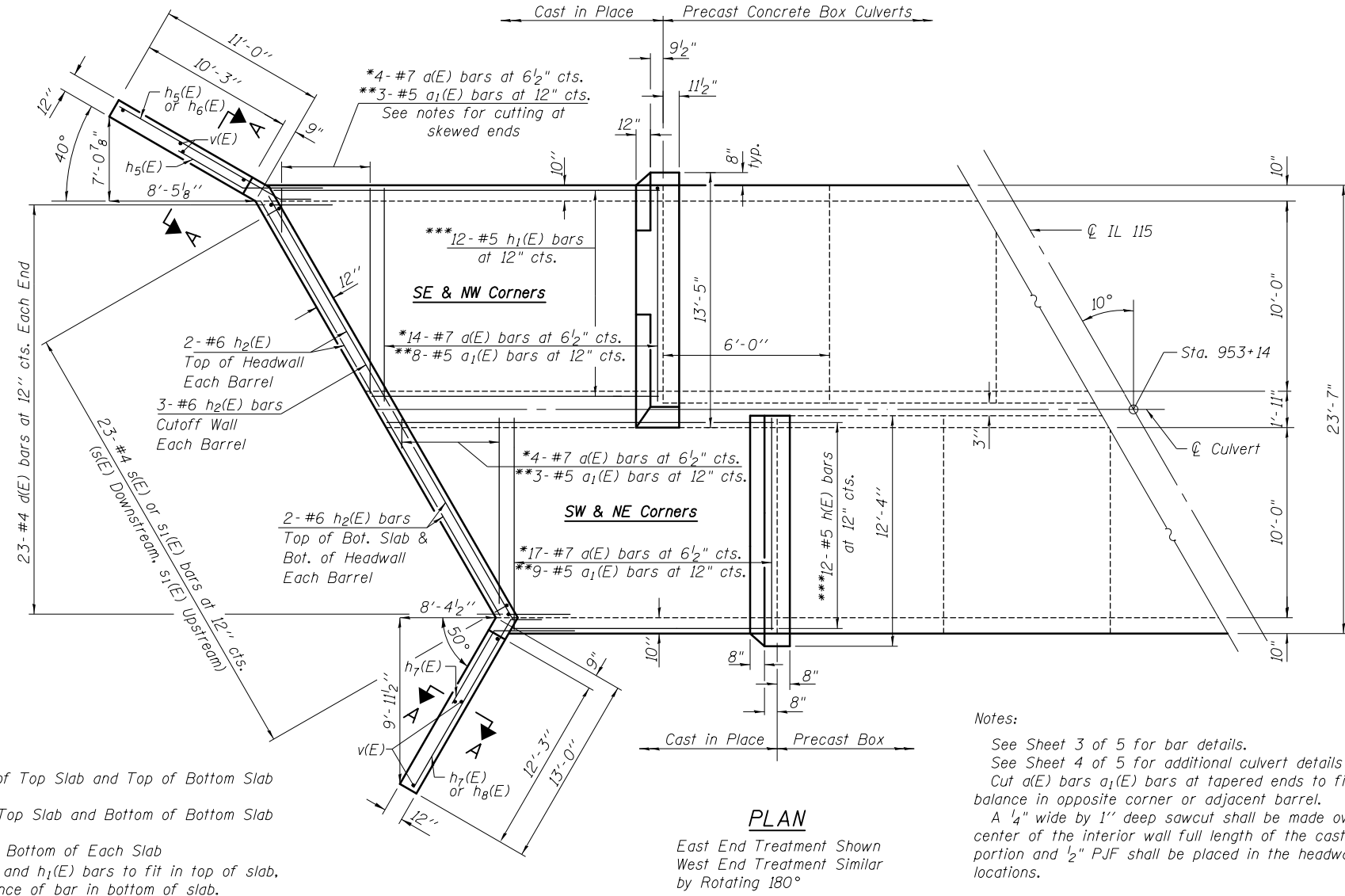


**LONGITUDINAL SECTION**  
Dimensions at Rt. L's to  $\phi$  Roadway



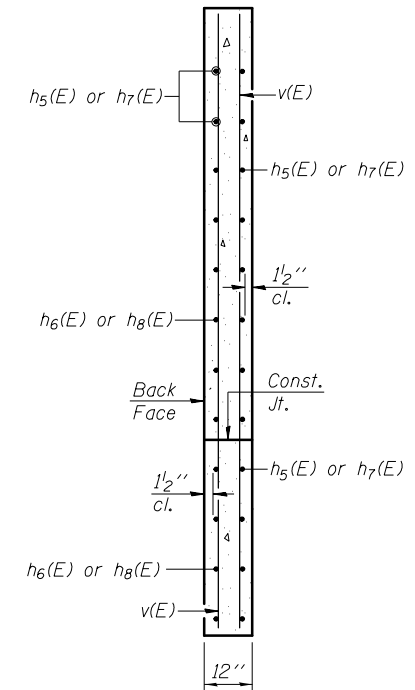
**HALF END ELEVATION CIP BARREL**

**HALF SECTION THRU CIP BARREL**



**PLAN**

East End Treatment Shown  
West End Treatment Similar  
by Rotating 180°

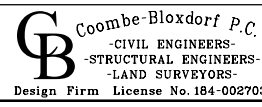


**SECTION A-A**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	140	#7	13'-0"	C	
a <sub>1</sub> (E)	80	#5	11'-4"	—	
d(E)	46	#4	4'-6"	└	
h(E)	24	#5	19'-10"	—	
h <sub>1</sub> (E)	24	#5	16'-2"	—	
h <sub>2</sub> (E)	36	#6	11'-6"	—	
h <sub>3</sub> (E)	14	#7	7'-0"	—	
h <sub>4</sub> (E)	28	#7	9'-0"	—	
h <sub>5</sub> (E)	38	#7	8'-0"	—	
h <sub>6</sub> (E)	26	#7	14'-0"	—	
h <sub>7</sub> (E)	38	#8	8'-0"	—	
h <sub>8</sub> (E)	26	#8	16'-0"	—	
h <sub>9</sub> (E)	14	#7	10'-11"	—	
s(E)	23	#4	4'-11"	—	
s <sub>1</sub> (E)	23	#4	4'-9"	—	
v(E)	16	#4	11'-3"	—	
v <sub>1</sub> (E)	80	#5	8'-4"	—	
x(E)	78	#4	5'-2"	—	
x <sub>1</sub> (E)	24	#4	17'-9"	—	
x <sub>2</sub> (E)	8	#4	6'-6"	—	
x <sub>3</sub> (E)	4	#4	3'-8"	—	
x <sub>4</sub> (E)	58	#4	5'-7"	—	
Concrete Box Culverts				Cu. Yd.	69.9
Reinforcement Bars, Epoxy Coated				Pound	12,420
Precast Concrete Box Culverts, 10'x7'				Foot	60

Notes:  
See Sheet 3 of 5 for bar details.  
See Sheet 4 of 5 for additional culvert details and dimensions.  
Cut a(E) bars a<sub>1</sub>(E) bars at tapered ends to fit skew, use  
balance in opposite corner or adjacent barrel.  
A 1/4" wide by 1" deep sawcut shall be made over the  
center of the interior wall full length of the cast-in-place  
portion and 1/2" P.J.F shall be placed in the headwalls at these  
locations.



USER NAME = hferrera	DESIGNED - AMC	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 0:2.000000 '1' / in.	DRAWN - MMY	REVISED -
PLOT DATE = 7/29/2015	CHECKED - CME	REVISED -

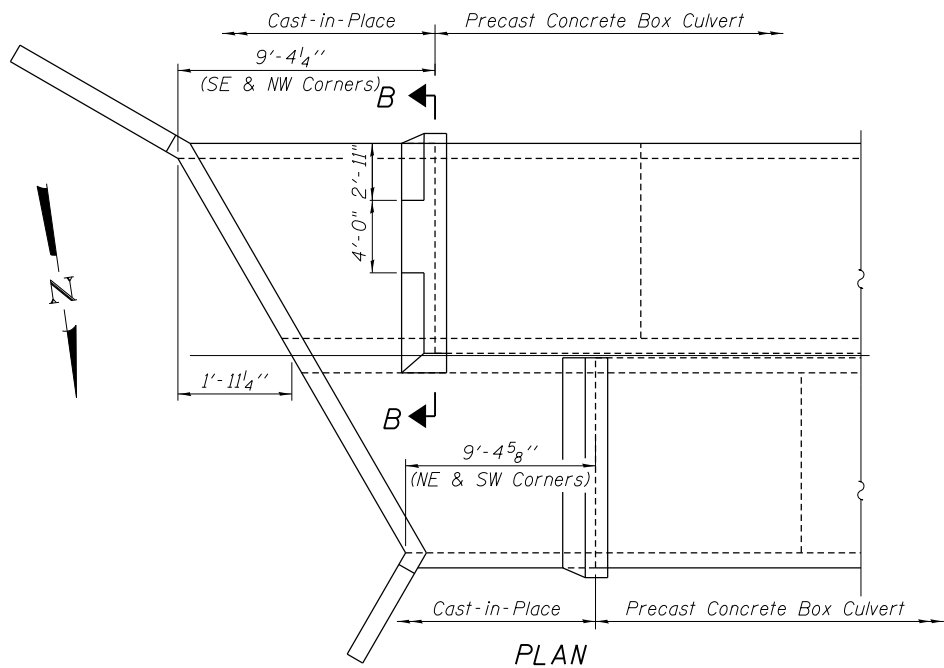
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS  
STRUCTURE NO. 046-2017**

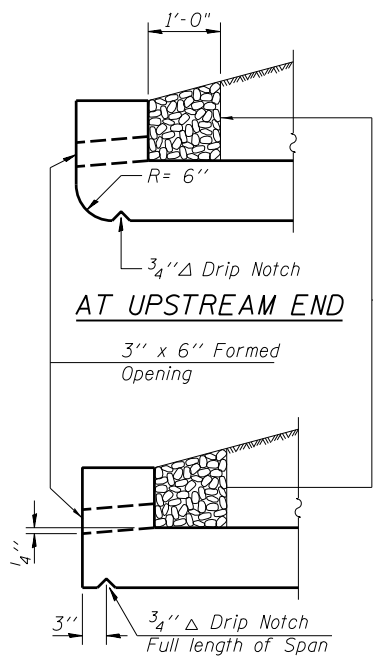
SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR	KANKAKEE	55	26
				CONTRACT NO. 66B74
ILLINOIS FED. AID PROJECT				

FILE NAME = I:\046-2017-013\046-2017-013\1080E-IL115\Roads\Drawings\CADD\Sheets\0462017-66B74-002-culv-ds.dgn  
CB PROJECT NO. 108063-5



**PLAN**

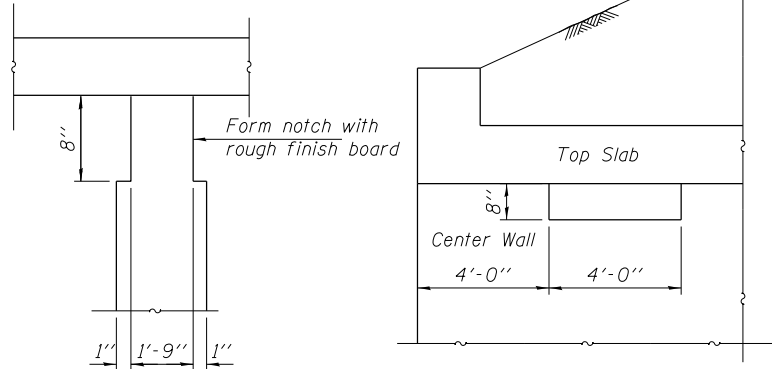


**AT UPSTREAM END**

**AT DOWNSTREAM END**

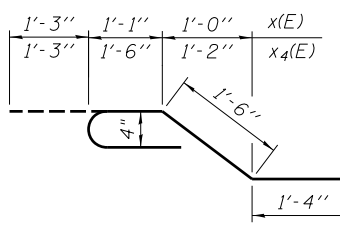
**DRAIN DETAIL**

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

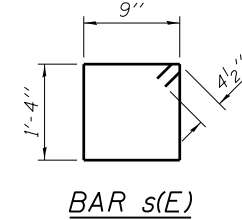


**DOWNSTREAM END**

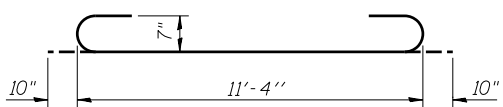
(Showing Phoebe Nesting Ledge)



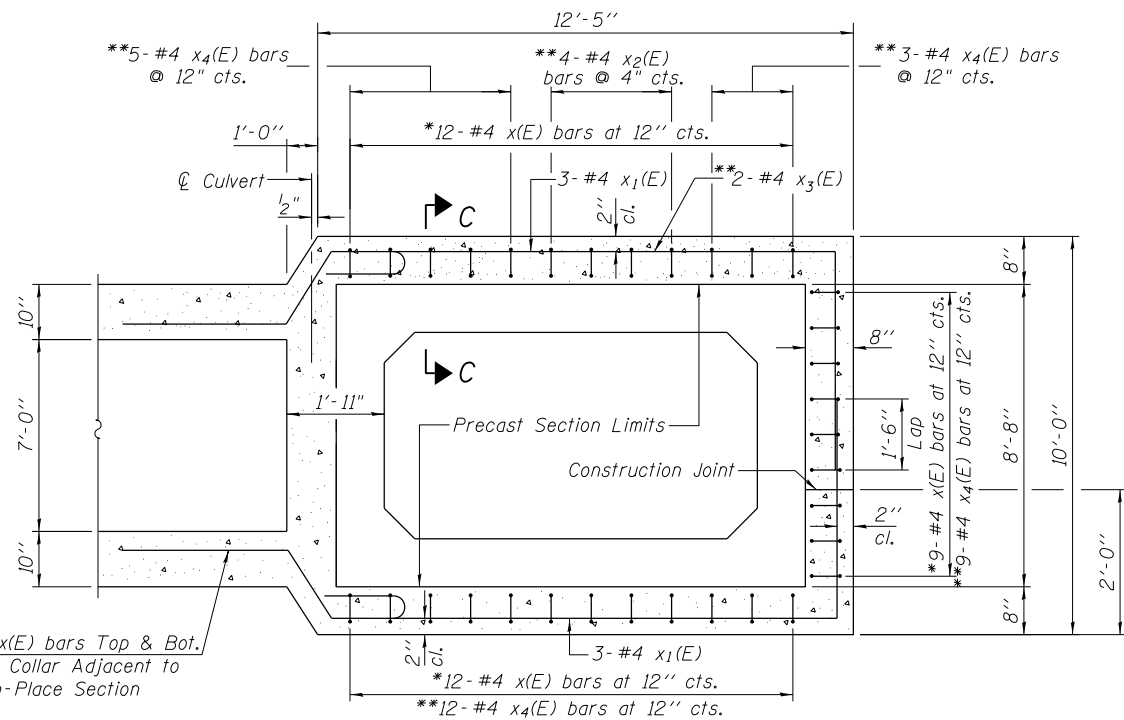
**BAR x(E) or x4(E)**



**BAR s(E)**

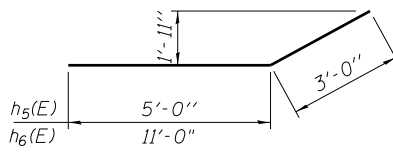


**BAR d(E)**

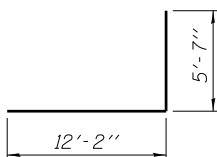


**SECTION B-B**

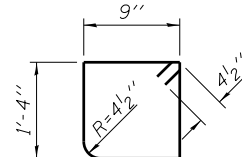
Thru Cast-in-Place Collar



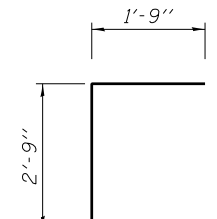
**BARS h5(E) or h6(E)**



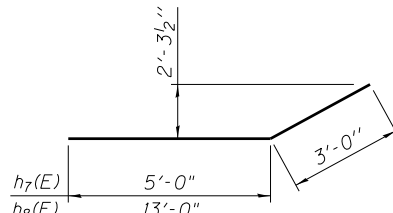
**BAR x1(E)**



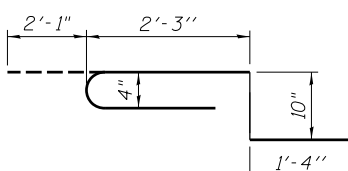
**BAR s1(E)**



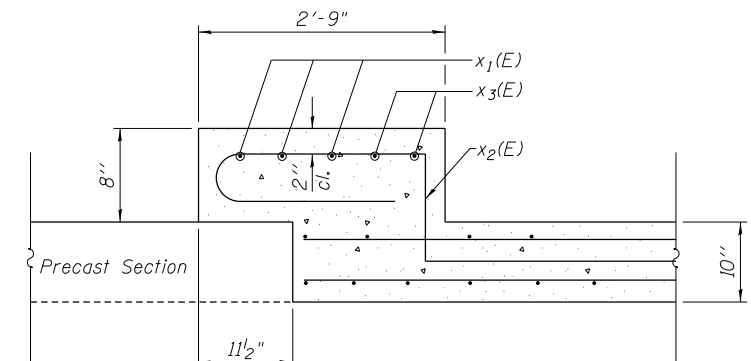
**BAR d(E)**



**BARS h7(E) or h8(E)**



**BAR x2(E)**



**SECTION C-C THRU RAIL POST SEATS**

(First 2 of 7 in SE & NW collars)

**SCHEDULE OF V1(E) BARS IN CULVERT WALLS**

EAST END OF CULVERT			
NORTH WALL	CENTER WALL		SOUTH WALL
	NORTH FACE	SOUTH FACE	
10- #5 v1(E) at 12" cts.	12- #5 v1(E) at 12" cts.	8- #5 v1(E) at 12" cts.	10- #5 v1(E) at 12" cts.

WEST END OF CULVERT			
NORTH WALL	CENTER WALL		SOUTH WALL
	NORTH FACE	SOUTH FACE	
10- #5 v1(E) at 12" cts.	8- #5 v1(E) at 12" cts.	12- #5 v1(E) at 12" cts.	10- #5 v1(E) at 12" cts.

FILE NAME: I:\DOTD\13-13080E-IL115\FedEx\Drawings\CADD\Sheets\0462817-66B74-003-06.dgn  
 CB PROJECT NO. 10863-5

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS-  
 STRUCTURAL ENGINEERS-  
 LAND SURVEYORS  
 Design Firm License No. 184-002703

USER NAME = hferrero	DESIGNED - AMC	REVISED -
PLOT SCALE = 0:2.000000 '1' / in.	CHECKED - MCB	REVISED -
PLOT DATE = 7/29/2015	DRAWN - MMY	REVISED -
	CHECKED - CME	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

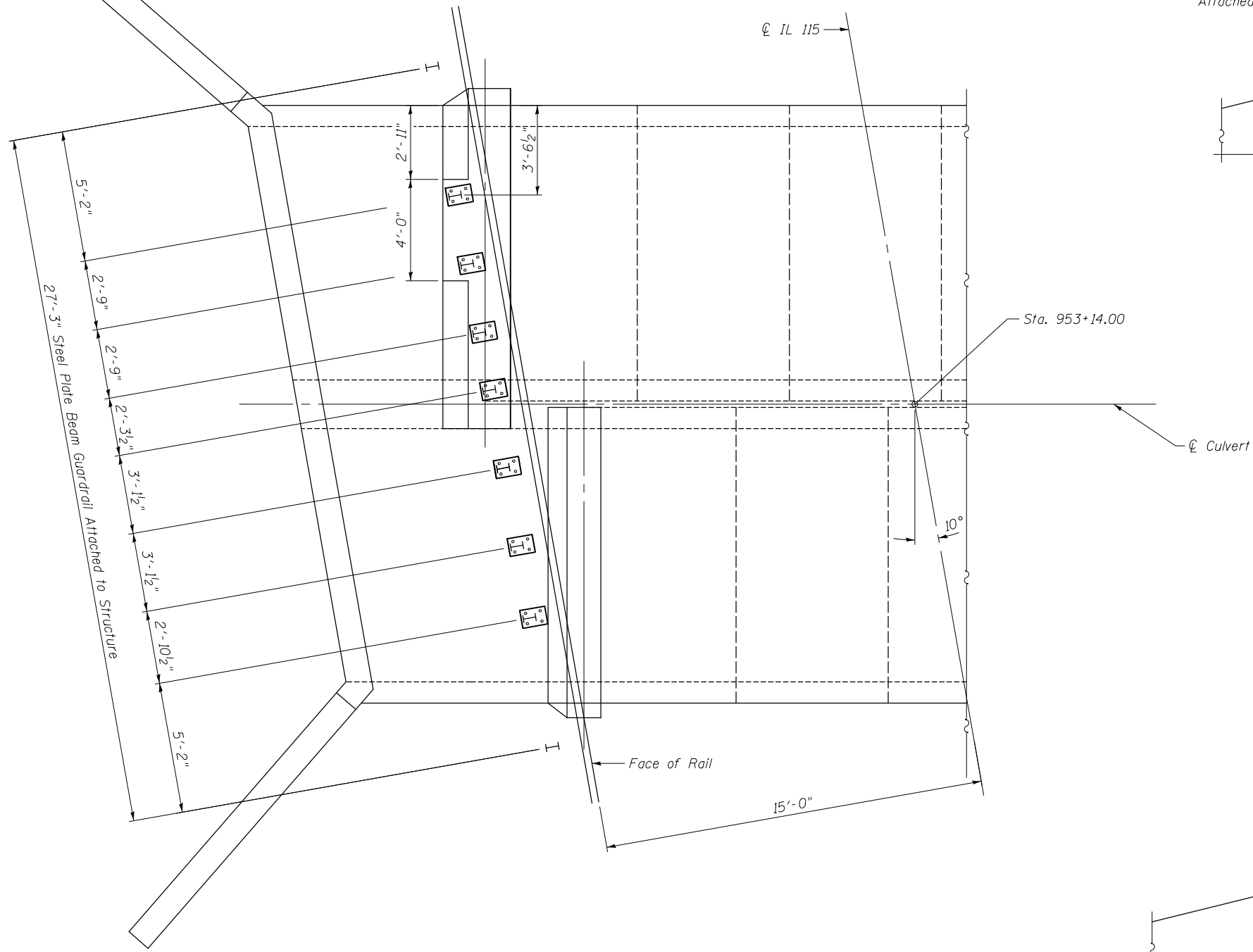
**CULVERT DETAILS**  
**STRUCTURE NO. 046-2017**

SHEET NO. 3 OF 5 SHEETS

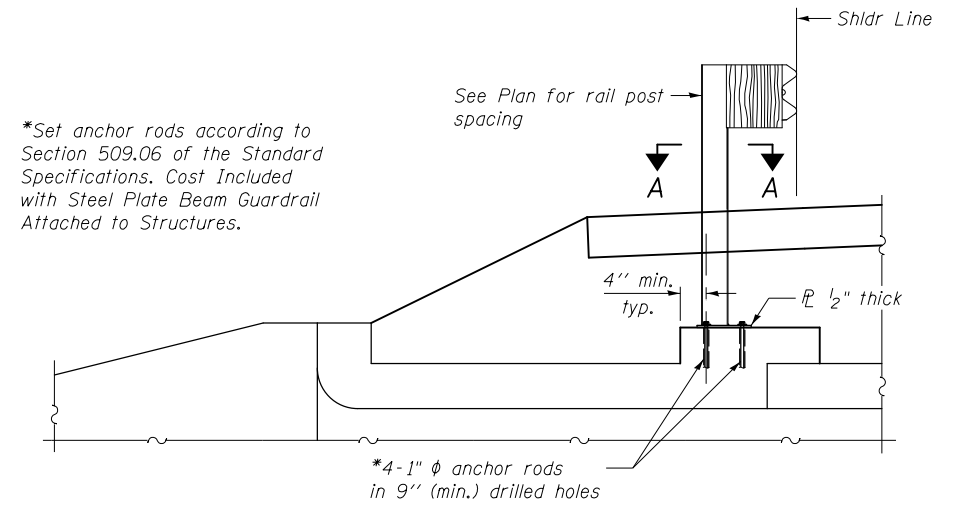
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR	KANKAKEE	55	27
CONTRACT NO. 66B74				

ILLINOIS FED. AID PROJECT

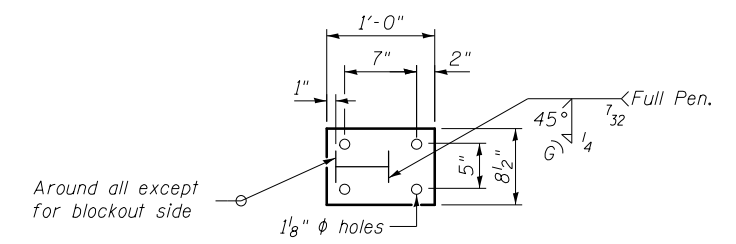
Note:  
 Collar dimensions shall be verified in the field and adjusted if necessary to accommodate rail connections. Cost included with Steel Plate Beam Guardrail Attached to Structures. Space reinforcement in collars to miss drilled holes for anchor rods.  
 Any adjustments to the guardrail such as drilling of new holes or cutting to fit will be included in the cost of Steel Plate Beam Guardrail Attached to Structures.



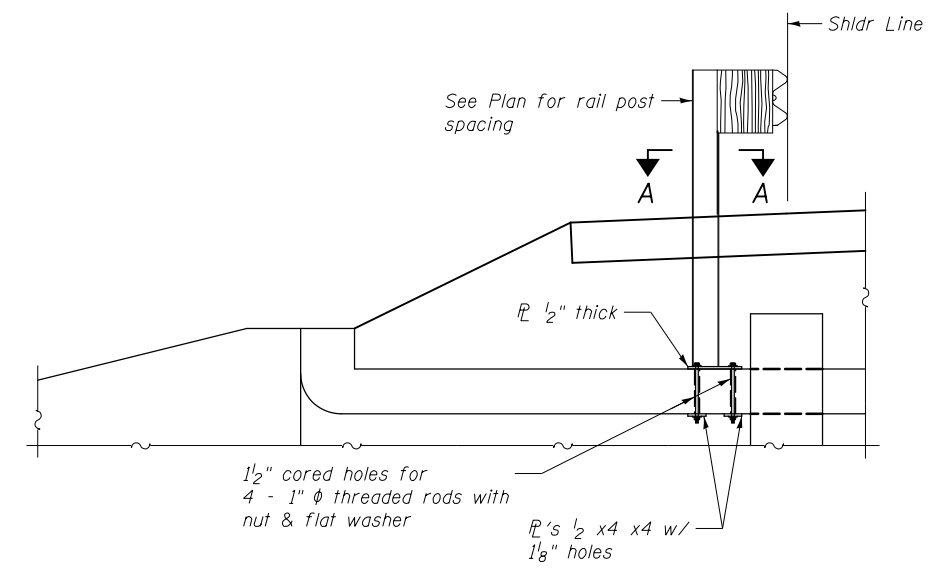
**PLAN**  
 East End Shown  
 (West End similar by rotating 180°)



**SECTION THRU CAST-IN-PLACE COLLAR**  
 Showing Guardrail Connection



**SECTION A-A**



**SECTION THRU BARREL**  
 Showing Guardrail Connection

FILE NAME = I:\DOTD\st\_3\3-13080E-IL115\Redline\Drawings\CADD\Sheets\0462017-66B74-004-rail.dgn  
 CB PROJECT NO. 100963-5

**Coombe-Bloxdorf P.C.**  
 - CIVIL ENGINEERS -  
 - STRUCTURAL ENGINEERS -  
 - LAND SURVEYORS -  
 Design Firm License No. 184-002703

USER NAME = hferrera	DESIGNED - AMC	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 5/4" = 1' / in.	DRAWN - MMY	REVISED -
PLOT DATE = 7/29/2015	CHECKED - CME	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL ATTACHMENT DETAILS**  
**STRUCTURE NO. 046-2017**

SHEET NO. 4 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR	KANKAKEE	55	28
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

Date 1/8/13

ROUTE IL 115 DESCRIPTION IL 115 over Reddick Creek, 1.7 miles North of Cabery LOGGED BY Larry Myers

SECTION 104-B LOCATION NE 1/4, SEC. 5, TWP. 29N, RNG. 9E, Latitude 41.021683, Longitude -88.209552

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 046-0067 (Exist.)  
 Station 953+12

BORING NO. 1 (N.W. Quad.)  
 Station 952+80  
 Offset 14.0 ft Rt.  
 Ground Surface Elev. 669.82 ft

DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (%)	DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (%)
667.32	Augered Shoulder Stone, Brown Silty Clay Loam Till Fill			6	Hard Gray Silty Clay Loam Till (continued)	5.3	16
				8			
				10			
				5			
	Hard Brown Silty Clay Loam Till & Black Silty Clay Loam Fill	>4.5	22	6		4.8	17
		P		7		S	
				-25			
				4			
				5		4.8	18
		>4.5	26	7		S	
		P					
				642.82			
					Very Stiff Gray Silty Clay Loam Till		
				3			
	Very Stiff Brown & Gray Silty Clay Loess	3.0	24	4		3.4	17
		P		5		B	
				660.32			
					Very Stiff Brown Silty Clay Loam Till		
				-10			
				3			
				3		3.2	23
				4		B	
				657.82			
					Hard Grayish Brown Silty Clay Loam Till		
				5			
				6		5.1	18
				9		S	
				655.32			
					Hard Gray Silty Clay Loam Till		
				-15			
				6			
				6		5.1	20
				8		S	
				633.32			
					End of Boring		
				5			
				8		5.1	17
				8		S	
				-20			

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



# SOIL BORING LOG

Date 1/8/13

ROUTE IL 115 DESCRIPTION IL 115 over Reddick Creek, 1.7 miles North of Cabery LOGGED BY Larry Myers

SECTION 104-B LOCATION NE 1/4, SEC. 5, TWP. 29N, RNG. 9E, Latitude 41.02153, Longitude -88.209547

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

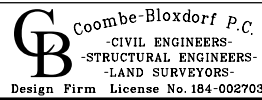
STRUCT. NO. 046-0067 (Exist.)  
 Station 953+12

BORING NO. 2 (S.W. Quad.)  
 Station 953+35  
 Offset 14.0 ft Rt.  
 Ground Surface Elev. 669.83 ft

DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (%)	DEPTH (ft)	SOIL DESCRIPTION	U (tsf)	M (%)
667.33	Augered Shoulder Stone, Brown Silty Clay Loam Till Fill			6	Hard Gray Silty Clay Loam Till (continued)	4.8	17
				7		S	
				7			
				5			
	Hard Brown Silty Clay Loam Till Fill & Black Silty Clay Loam Fill	>4.5	20	5		4.3	18
		P		6		S	
				-25			
				4			
				4		4.5	17
				4		P	
				642.83			
					Very Stiff Gray Silty Clay Loam Till		
				4			
	Very Stiff Brown & Gray Silty Clay Loess	3.5	24	4		3.8	18
		P		3		B	
				662.33			
					Very Stiff Brown Silty Clay Loam Till		
				-10			
				2			
				2		2.5	27
				2		P	
				657.83			
					Very Stiff Brown Silty Clay Loam Till, Soft in top 1' (12.5' - 13.5')		
				WH			
				2		3.0	22
				5		B	
				655.33			
					Hard Gray Silty Clay Loam Till		
				-15			
				6			
				8		5.2	15
				10		S	
				633.33			
					End of Boring		
				5			
				6		4.8	18
				7		S	
				-20			

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

FILE NAME: I:\DOT\13-13080E-IL115Reddick\Drawings\CADD\Sheets\0462017-66B74-005-bor-rngs.dgn  
 CB PROJECT NO. 10063-5



USER NAME = hferrera	DESIGNED - AMC	REVISED -
	CHECKED - MCB	REVISED -
PLOT SCALE = 0:2.000000 '1' / in.	DRAWN - MMY	REVISED -
PLOT DATE = 7/29/2015	CHECKED - CME	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS  
 STRUCTURE NO. 046-2017

SHEET NO. 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR	KANKAKEE	48	29
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled "X" on the southeast wingwall of S.N. 046-0066:  
Sta. 953+27.28, 17.69' L.I., Elev. 670.04.

Existing Structure: S.N. 046-0066 built in 1927 as SBI Route 115  
Sec 104-B at Sta. 986+00. The existing structure consists of a  
single span concrete slab structure on concrete abutments with  
concrete footings, 31'-1 1/2" Bk. to Bk. abutments and 32'-2"  
out-to-out deck. The existing structure is to be removed and  
replaced. IL-115 to be closed during construction.

No salvage

**INDEX OF SHEETS**

- 1 General Plan & Elevation
- 2 Top Slab Plan
- 3 Bottom Slab Plan
- 4 Collar & Wall Details
- 5 Wingwalls & Bill of Bars
- 6 Rail Post Spacing & Details
- 7-8 Soil Borings

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal Of Existing Structures No. 2	Each	1
Reinforcement Bars, Epoxy Coated	Pound	19,660
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	104.8
Precast Concrete Box Culverts 9' x 5'	Foot	72
Steel Plate Beam Guardrail, Attached To Structures	Foot	74

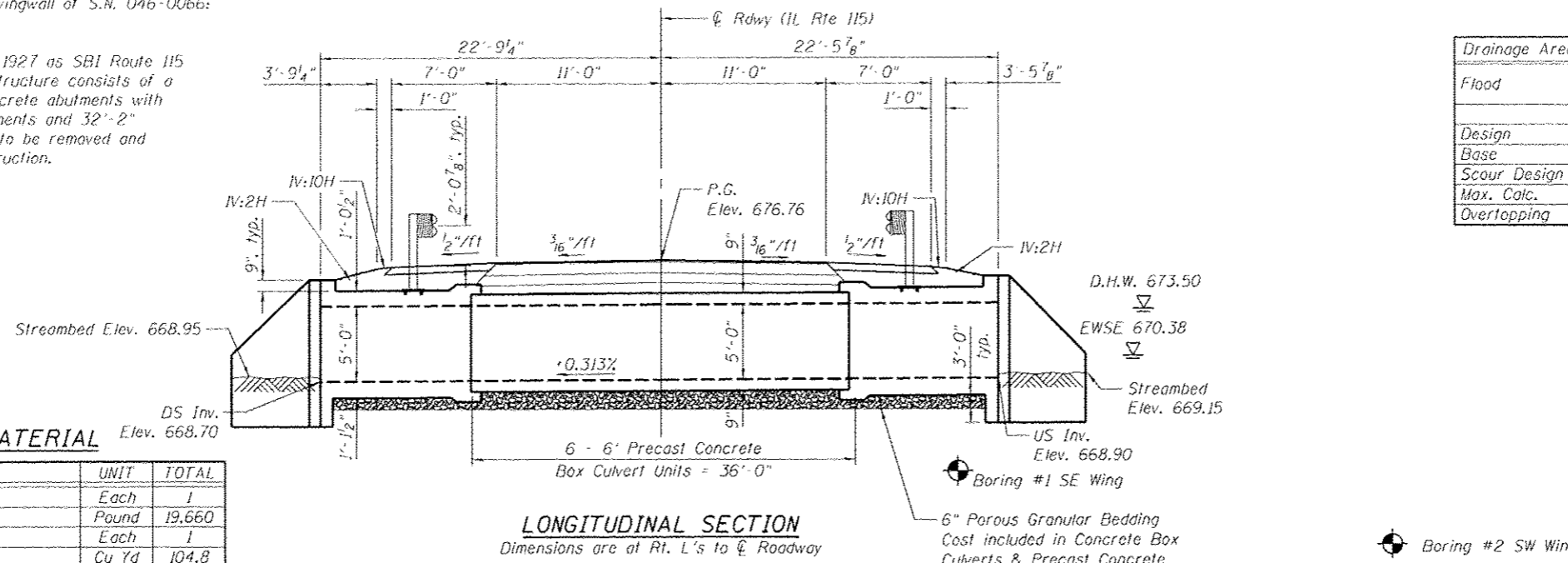
**WATERWAY INFORMATION**

Drainage Area = 1.32 sq mi Low Grade Elev. 676.03 @ Sta. 988+00

Flood	Freq. Yr.	O C.F.S.	Opening Exist. Sq. Ft.	Prop. Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	10	168	55	66	672.8	0.1 0.0	672.9 672.8
Base	50	250	70	78	673.5	0.1 0.1	673.6 673.6
Scour Design	100	282	74	82	673.7	0.2 0.1	673.8 673.8
Max. Calc.	200	315	77	84	673.8	0.2 0.2	674.0 674.0
Overlapping	500	359	81	87	674.0	0.2 0.2	674.2 674.2
	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A

**GENERAL NOTES**

- Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
- Reinforcement bars designated (E) shall be epoxy coated.
- Remove existing structure completely.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
- Precast concrete box culverts shall conform to the design requirements of ASTM C1577.



**LONGITUDINAL SECTION**

Dimensions are at Rt. L's to  $\phi$  Roadway

6" Porous Granular Bedding  
Cost included in Concrete Box Culverts & Precast Concrete Box Culverts 9' x 5'.

STATION 986+00.00  
BUILT 201 BY  
STATE OF ILLINOIS  
F.A.P. RTE 796 - SEC. 104 BR-1  
LOADING HL-93  
STRUCTURE NO. 046-2016

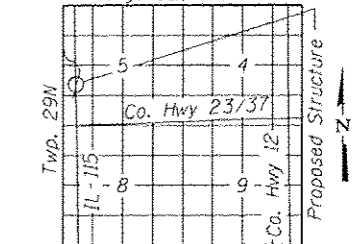
**NAME PLATE**

See Std. 515001

**LOADING HL-93**

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

Range 9E, 3rd P.M.



**LOCATION SKETCH**

**DESIGN STRESSES**

**FIELD UNITS**

- f'c = 3,500 psi
- f<sub>y</sub> = 60,000 psi (Reinforcement)
- PRECAST UNITS**
- f'c = 5,000 psi
- f<sub>y</sub> = 65,000 psi (welded wire fabric)

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

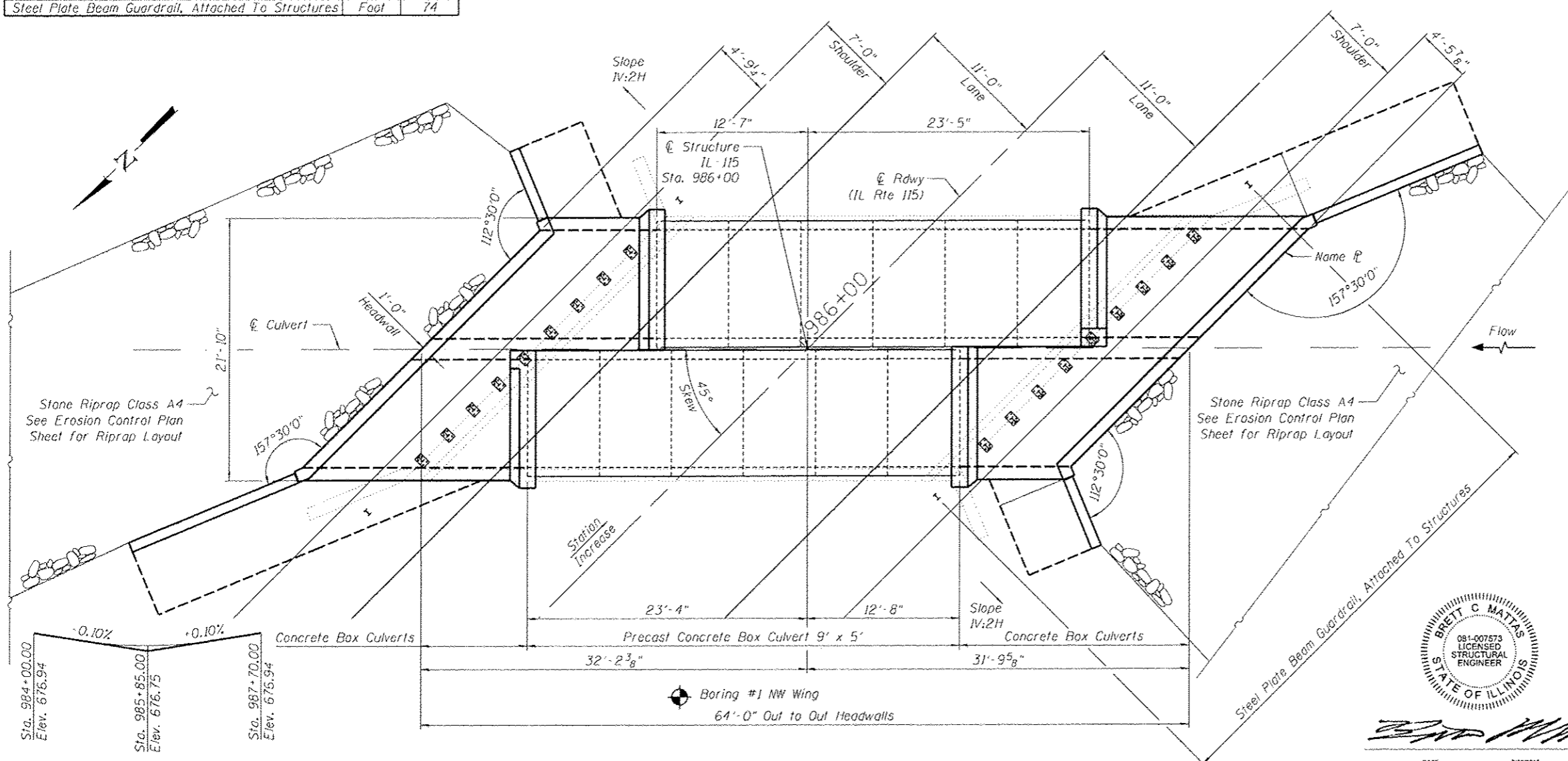
**GENERAL PLAN & ELEVATION**  
**ILLINOIS ROUTE 115 OVER REDDICK CREEK**

F.A.P. 796 - SEC. 104BR-1

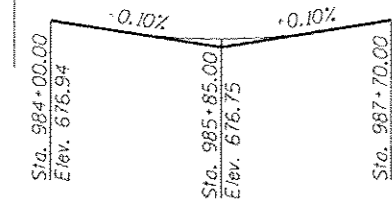
KANKAKEE COUNTY

STATION 986+00

STRUCTURE NO. 046-2016



**PLAN**



**PROFILE GRADE**

(Along  $\phi$  IL-115 P.G.)

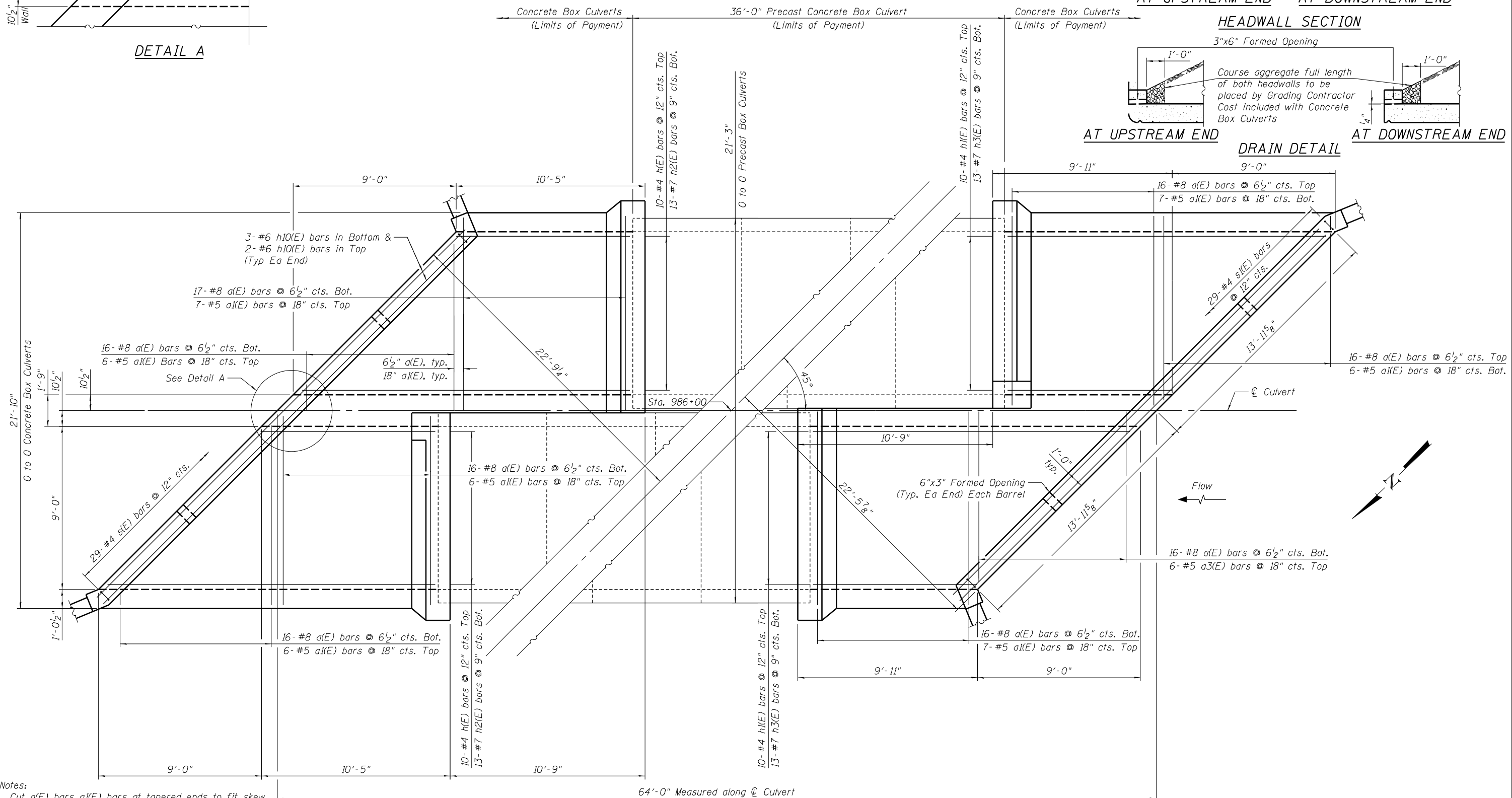
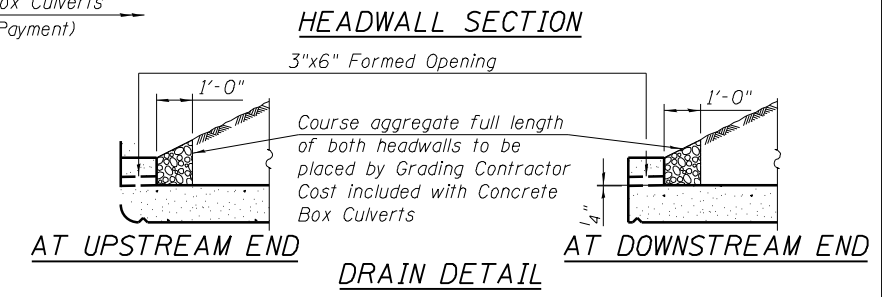
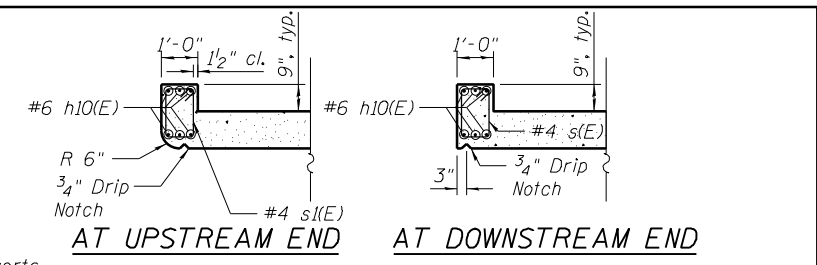
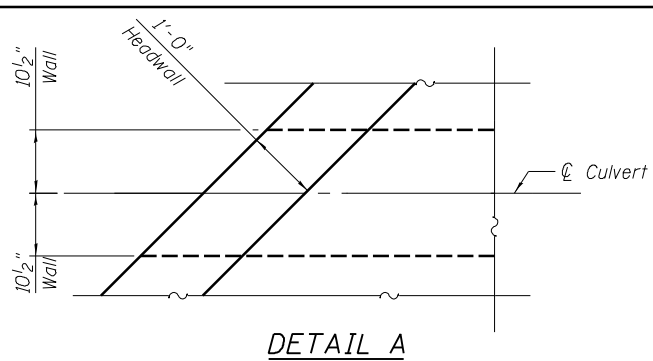


USER NAME: bmatias	DESIGNED: BCM	REVISD:
PLOT SCALE: N/A	CHECKED: CB	REVISD:
PLOT DATE: 7/30/2015	DRAWN: BCM	REVISD:
	CHECKED: 3/9/2015	REVISD:

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
STRUCTURE NO. 046-2016  
SHEET NO. 1 OF 8 SHEETS

F.A.P. RTE. 796	SECTION 104 BR-1	COUNTY KANKAKEE	TOTAL SHEETS 55	SHEET NO. 30
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				



Notes:  
 Cut a(E) bars a(E) bars at tapered ends to fit skew,  
 use balance in opposite corner or adjacent barrel.  
 Cut h(E), h1(E), h2(E), and h3(E) bars to fit top of slab,  
 use balance of bar in bottom of slab.

PLAN TOP SLAB

FILENAME: F:\3-1308 IDD\DD\st\_3\3-1308DE-ILLI5Redata\Submittals\Comments\_2015\_07\_31\Final\CD\Drawings\CADD\Sheets\0462016-66B74-002-TopPlan.dgn



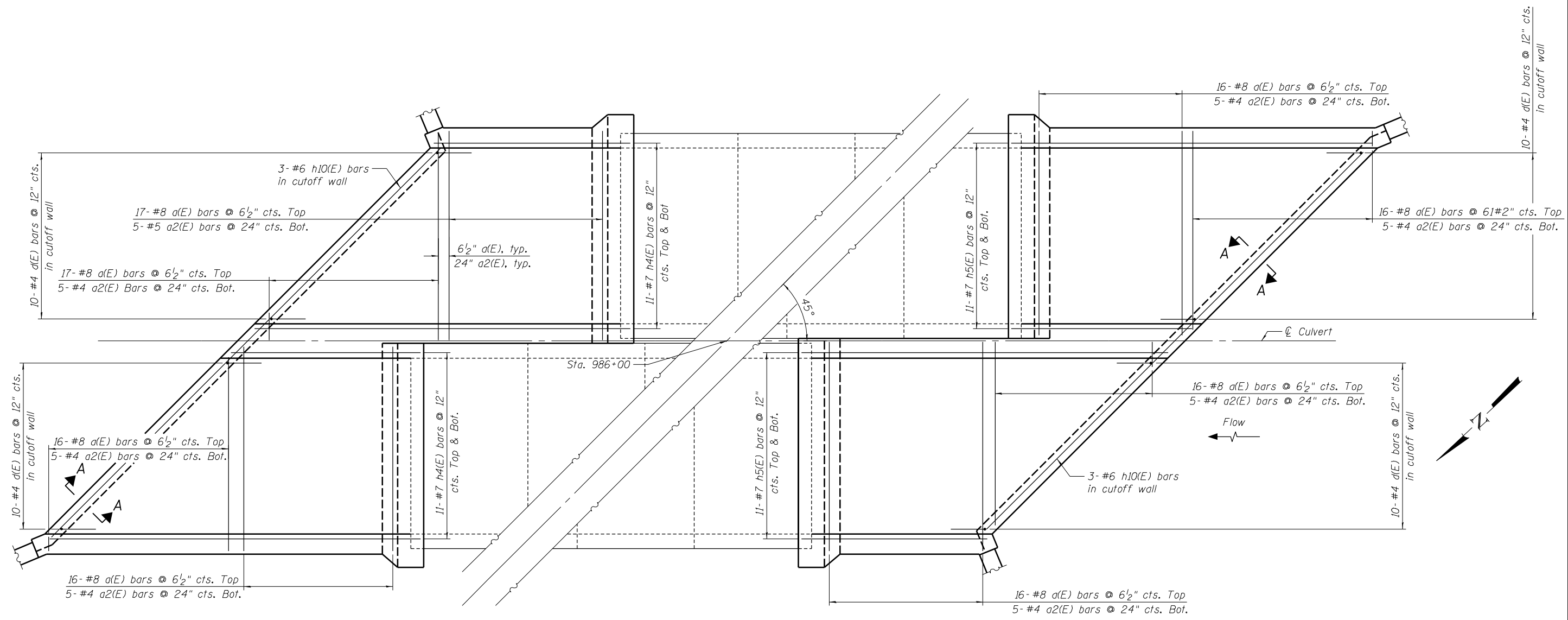
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 DESIGNED - BCM  
 CHECKED - XXX  
 PLOT SCALE = N/A  
 DRAWN - BCM  
 CHECKED - XXX  
 PLOT DATE = 7/30/2015

DESIGNED - BCM  
 CHECKED - XXX  
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 REVISED  
 REVISED  
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 REVISED

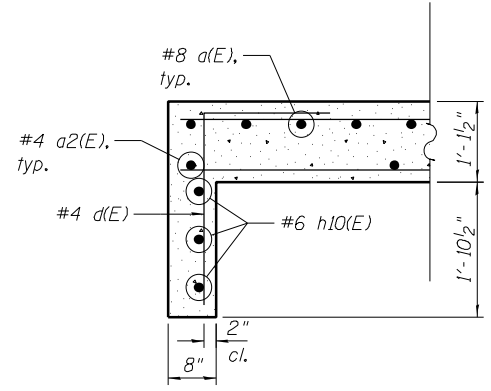
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP SLAB PLAN  
 STRUCTURE NO. 046-2016  
 SHEET NO. 2 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR-1	KANKAKEE	55	31
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				



PLAN BOTTOM SLAB



SECTION A-A

Notes:  
 Cut a(E) bars a2(E) bars at tapered ends to fit skew, use balance in opposite corner or adjacent barrel.  
 Cut h4(E) and h5(E) bars to fit top of slab, use balance of bar in bottom of slab.

FILENAME = F:\3-1308 IDDT\dwt\3-3-1308DE-IL1156\data\Submittals\Comments\2015\_07\_31\_Fma\CD\Drawings\CADD\Sheets\0462016-66B74-003-Box1\1.dgn



USER NAME = hferrero	DESIGNED - BCM	REVISED
	CHECKED - KO	REVISED
PLOT SCALE = N/A	DRAWN - BCM	REVISED
PLOT DATE = 7/30/2015	CHECKED - 6/26/2012	REVISED

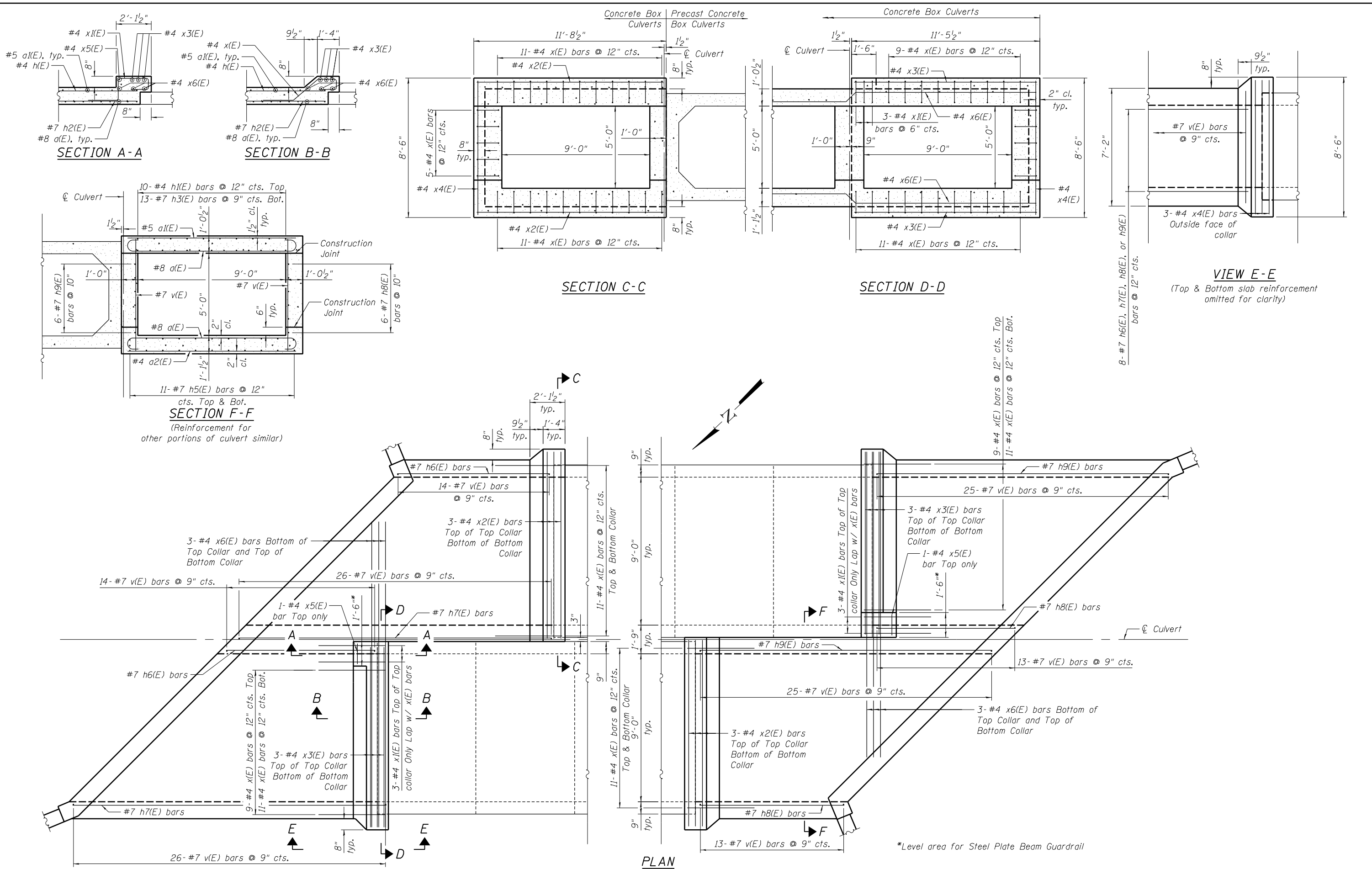
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BOTTOM SLAB PLAN  
 STRUCTURE NO. 046-2016

SHEET NO. 3 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR-1	KANKAKEE	55	32
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				





FILENAME: F:\3-1308 IDDT\dwt\3-1308DE-IL155\pdr\CD\Drawings\CADD\Sheets\04622016-66B74-004-Collar.scdgn  
 2015 07 31 11:59:00 AM  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 876-9800 Fax: (312) 876-9800



USER NAME = hferrero  
 PLOT SCALE = N/A  
 PLOT DATE = 7/30/2015

DESIGNED - BCM  
 CHECKED - BCM  
 DRAWN - KO  
 CHECKED - 8/22/2012

REVISED  
 REVISED  
 REVISED  
 REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

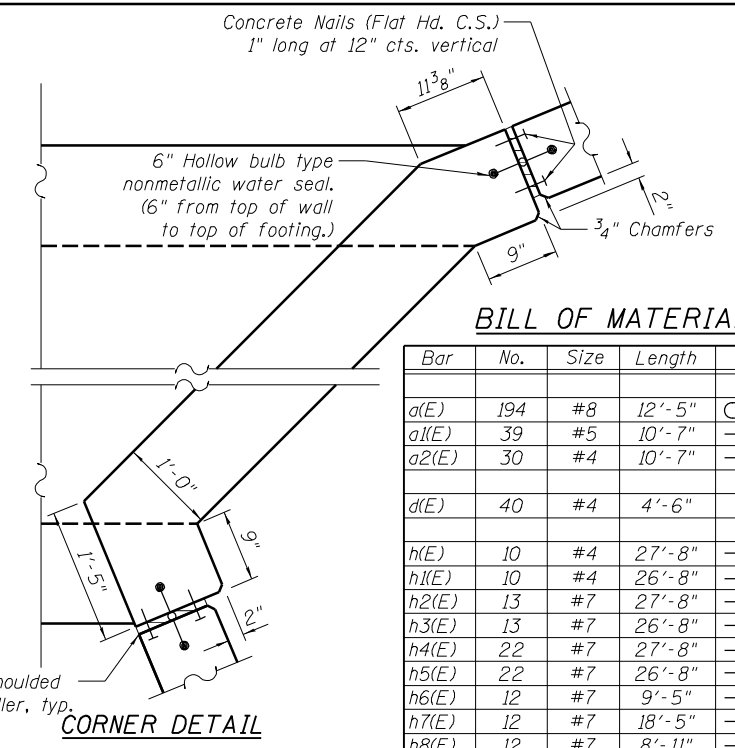
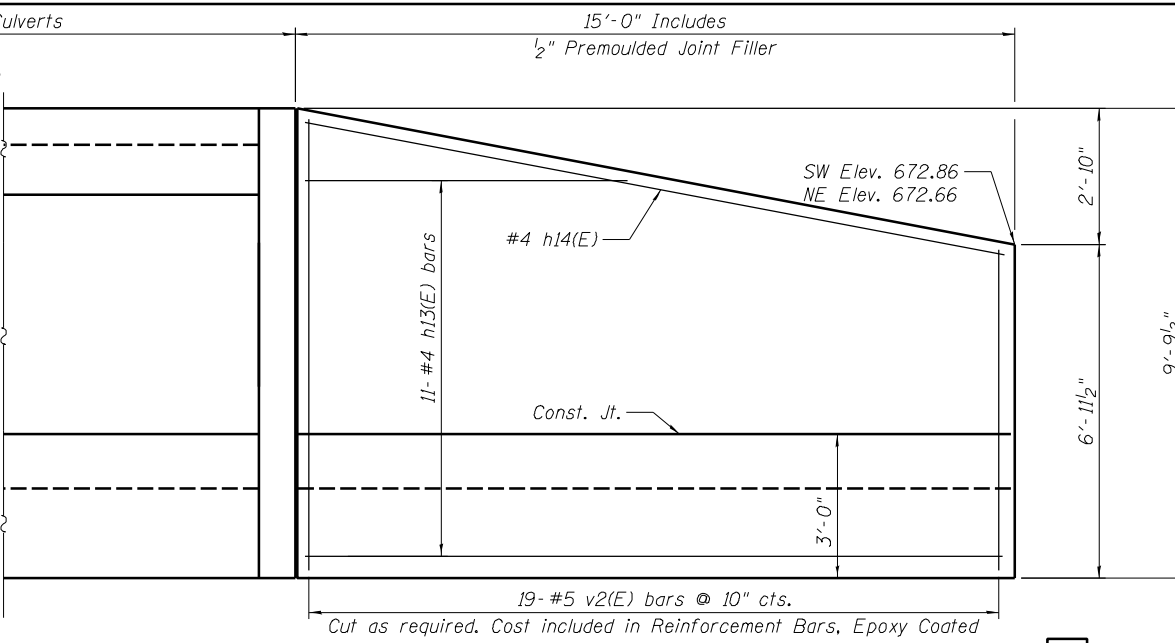
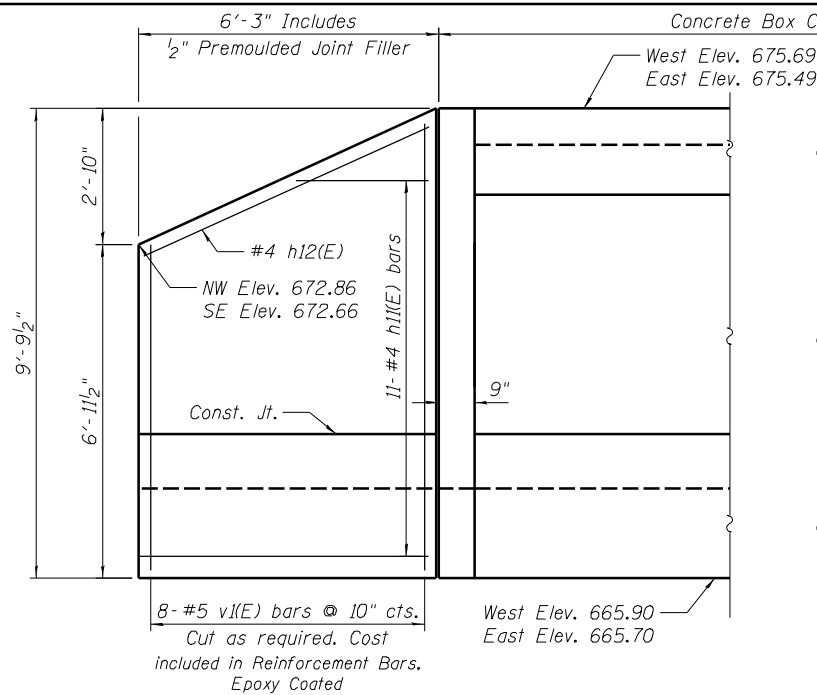
**COLLAR & WALL DETAILS**  
**STRUCTURE NO. 046-2016**

SHEET NO. 4 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR-1	KANKAKEE	55	33

CONTRACT NO. 66B74

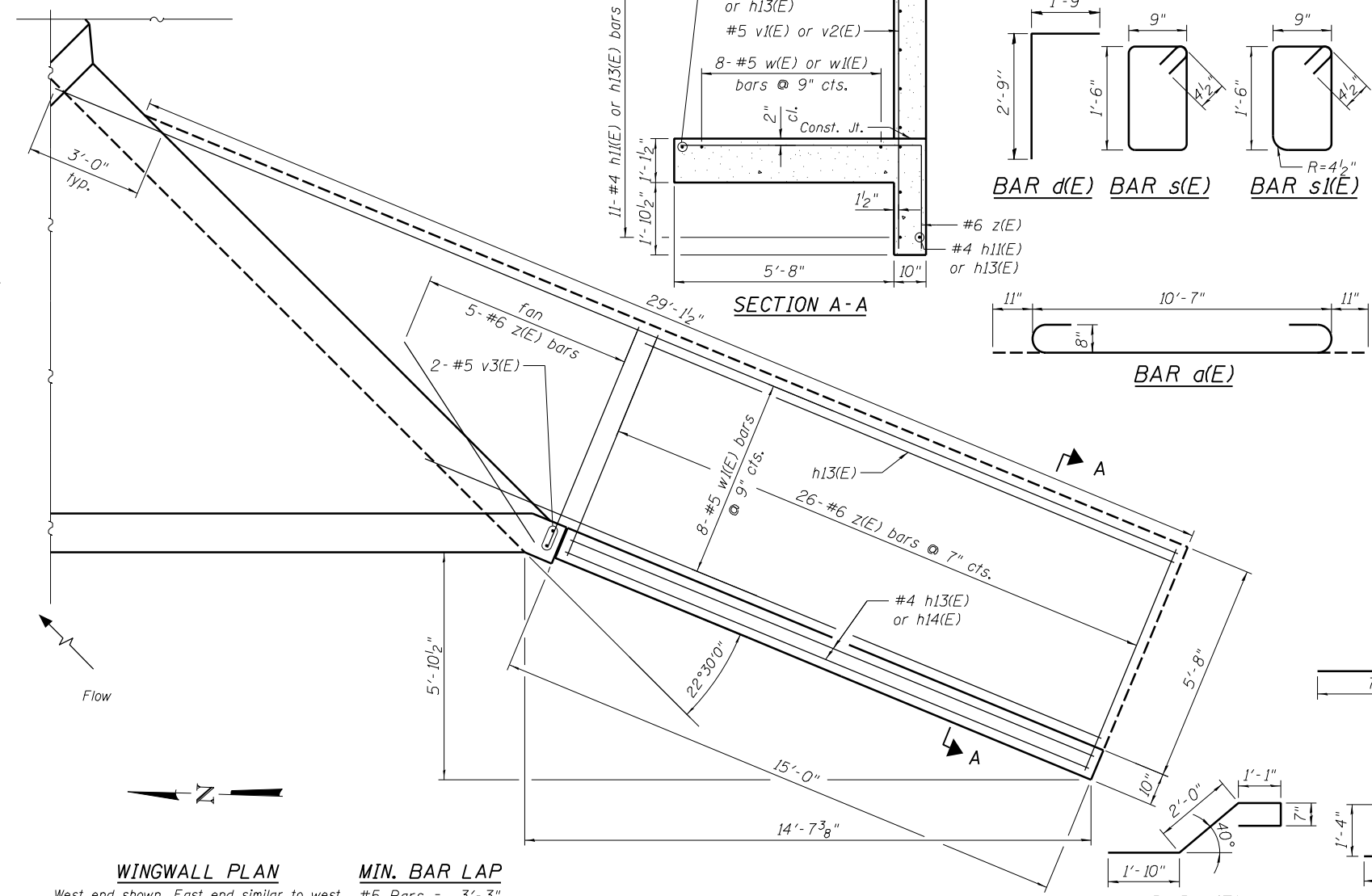
ILLINOIS FED. AID PROJECT



**BILL OF MATERIAL**

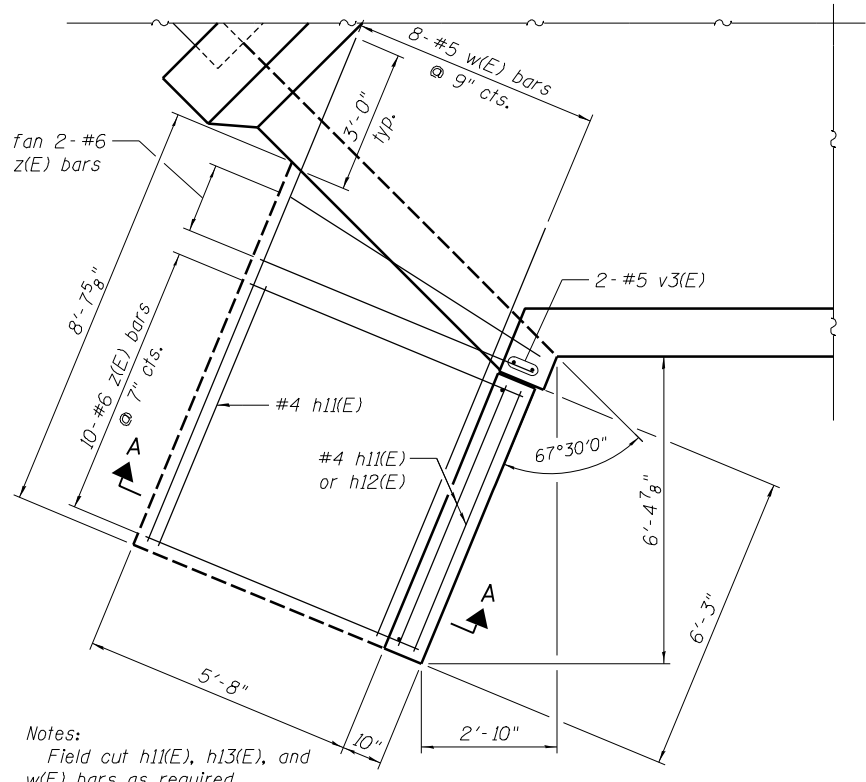
Bar	No.	Size	Length	Shape
a(E)	194	#8	12'-5"	[hook]
a1(E)	39	#5	10'-7"	[hook]
a2(E)	30	#4	10'-7"	[hook]
d(E)	40	#4	4'-6"	[hook]
h(E)	10	#4	27'-8"	[hook]
h1(E)	10	#4	26'-8"	[hook]
h2(E)	13	#7	27'-8"	[hook]
h3(E)	13	#7	26'-8"	[hook]
h4(E)	22	#7	27'-8"	[hook]
h5(E)	22	#7	26'-8"	[hook]
h6(E)	12	#7	9'-5"	[hook]
h7(E)	12	#7	18'-5"	[hook]
h8(E)	12	#7	8'-11"	[hook]
h9(E)	12	#7	17'-11"	[hook]
h10(E)	18	#6	28'-6"	[hook]
h11(E)	22	#4	5'-11"	[hook]
h12(E)	2	#4	6'-4"	[hook]
h13(E)	22	#4	14'-8"	[hook]
h14(E)	2	#4	14'-8"	[hook]
s(E)	29	#4	5'-2"	[hook]
s1(E)	29	#4	5'-0"	[hook]
v(E)	156	#7	6'-10"	[hook]
v1(E)	16	#5	9'-5"	[hook]
v2(E)	38	#5	9'-5"	[hook]
v3(E)	8	#5	9'-5"	[hook]
w(E)	16	#5	11'-6"	[hook]
w1(E)	16	#5	32'-3"	[hook]
x(E)	104	#4	6'-7"	[hook]
x1(E)	6	#4	6'-7"	[hook]
x2(E)	12	#4	11'-4"	[hook]
x3(E)	12	#4	11'-1"	[hook]
x4(E)	12	#4	8'-2"	[hook]
x5(E)	2	#4	1'-2"	[hook]
x6(E)	12	#4	18'-10"	[hook]
z(E)	88	#6	8'-10"	[hook]
Concrete Box Culverts		Cu. Yd.	104.8	
Reinforcement Bars, Epoxy Coated		Pound	19,660	
Precast Concrete Box Culverts 9'x5'		Foot	72	

**ELEVATION**  
Looking East  
West Wingwalls shown  
East Wingwalls similar



**WINGWALL PLAN**  
West end shown. East end similar to west wingwalls by rotation of 180°

**MIN. BAR LAP**  
#5 Bars = 3'-3"



Notes:  
Field cut h11(E), h13(E), and w(E) bars as required.

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WINGWALLS & BILL OF BARS**  
**STRUCTURE NO. 046-2016**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR-1	KANKAKEE	55	34

CONTRACT NO. 66B74

SHEET NO. 5 OF 8 SHEETS

ILLINOIS FED. AID PROJECT

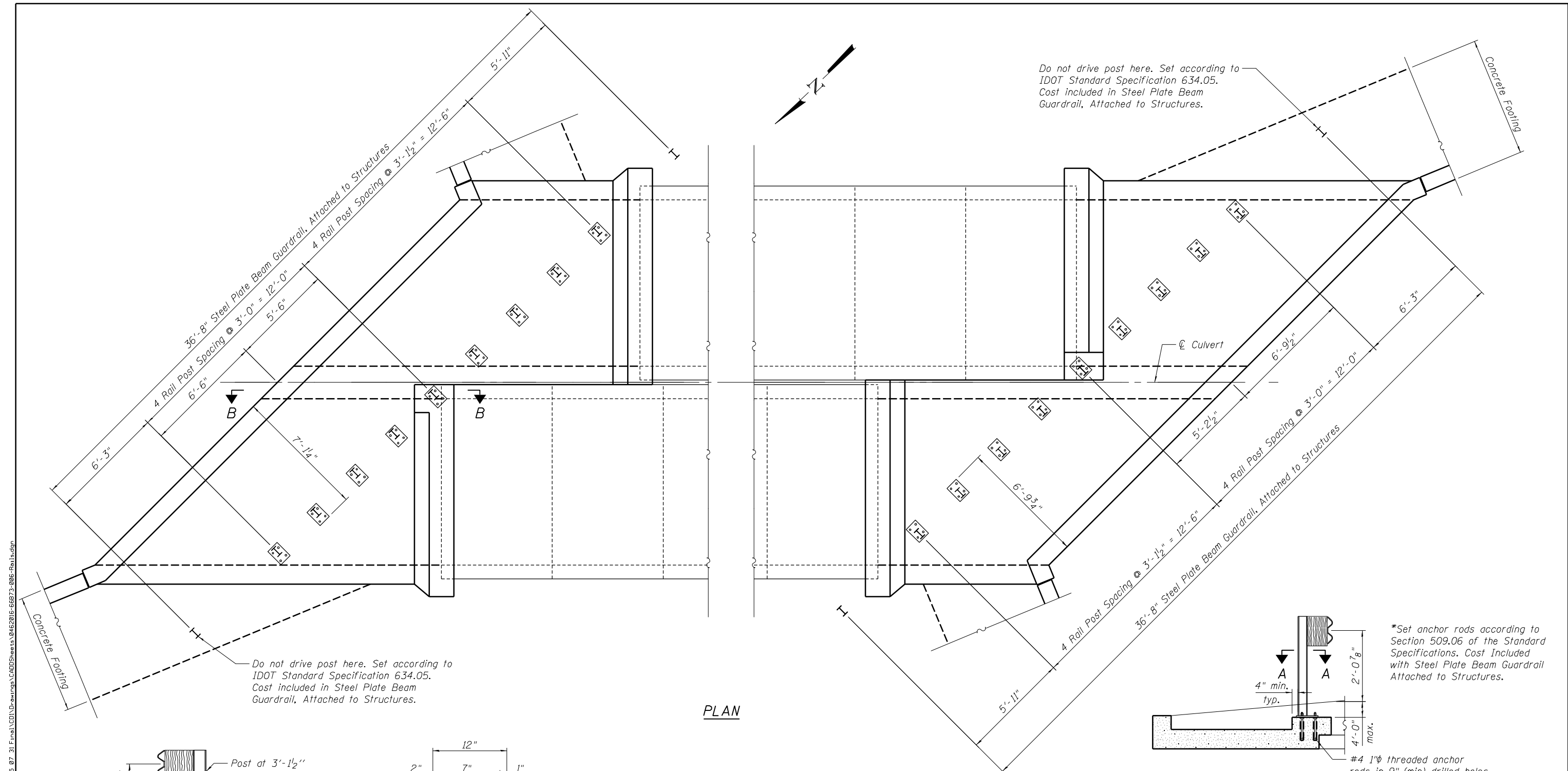
FILENAME: F:\3-1308 IDD\Dist\_3\3-1308DE-LL15P\data\Submittals\Comments\_2015\_07\_31\Final\CD\Drawings\CADD\Sheets\_0462016-66B74-005-Wingwalls.dgn  
 600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
 Phone: (312) 876-9800 Fax: (312) 876-9800

**BLOOM**  
**COMPANIES, LLC**  
Infrastructure Design and Digital  
600 W. Fulton Street, Suite 701 • Chicago, IL 60661  
Phone: (312) 876-9800 Fax: (312) 876-9800

USER NAME	DESIGNED	REVISIONS
hferrero	BCM	REVISED
	BCM	REVISED
	KO	REVISED
	8/22/2012	REVISED

PLOT SCALE = N/A  
PLOT DATE = 7/30/2015

FILENAME = F:\3-1308 IDOT\3-1308\3-1308\046-2016-66B74-006-Rail.dgn

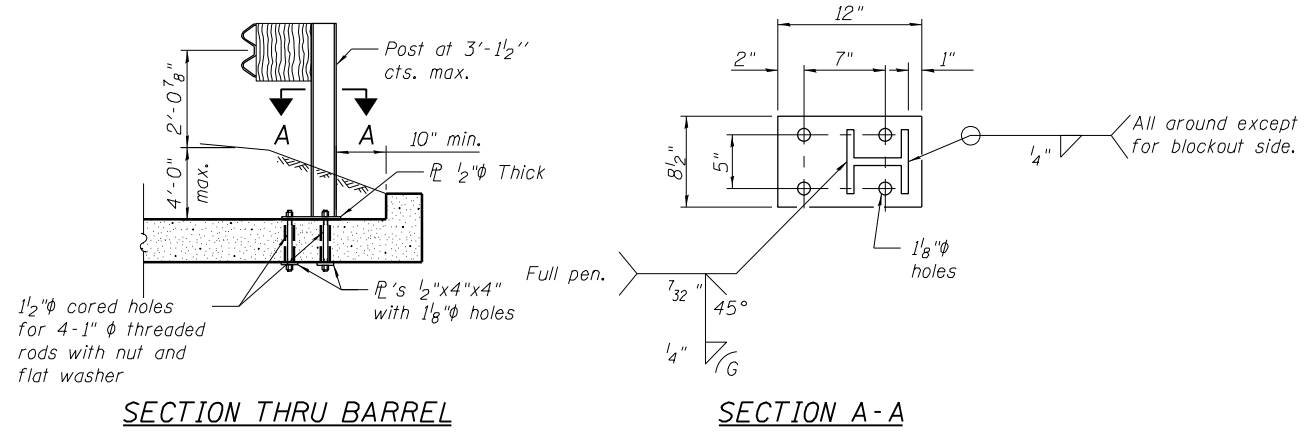


Do not drive post here. Set according to IDOT Standard Specification 634.05. Cost included in Steel Plate Beam Guardrail, Attached to Structures.

Do not drive post here. Set according to IDOT Standard Specification 634.05. Cost included in Steel Plate Beam Guardrail, Attached to Structures.

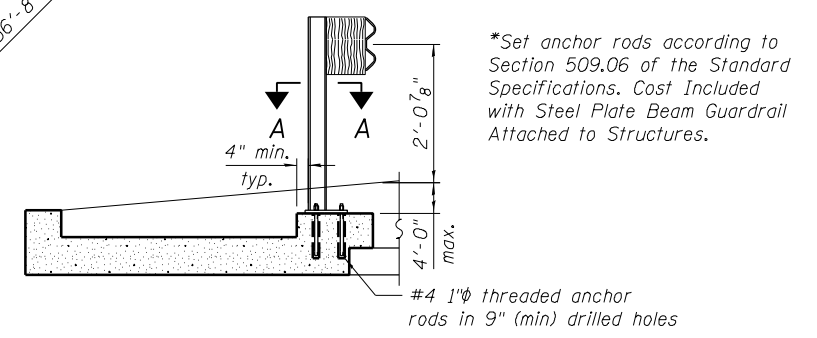
\*Set anchor rods according to Section 509.06 of the Standard Specifications. Cost Included with Steel Plate Beam Guardrail Attached to Structures.

PLAN



SECTION THRU BARREL

SECTION A-A



SECTION B-B

Notes:  
Collar dimensions shall be verified in the field and adjusted if necessary to accommodate rail connections. Cost included with Steel Plate Beam Guardrail Attached to Structures. Space reinforcement in collars to miss drilled holes for anchor rods.  
Cut guardrail panels to custom lengths and drill additional holes in the guardrail panels as required for non-standard post spacing. Cost included with Steel Plate Beam Guardrail Attached to Structures.



USER NAME = hferrero	DESIGNED - BCM	REVISED
DESIGNED - BCM	CHECKED - BCM	REVISED
PLOT SCALE = N/A	DRAWN - KO	REVISED
PLOT DATE = 7/30/2015	CHECKED - 8/22/2012	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RAIL POST SPACING & DETAILS  
STRUCTURE NO. 046-2016

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR-1	KANKAKEE	55	35
				CONTRACT NO. 66B74





**SOIL BORING LOG**

ROUTE FAP 796 (IL 115) DESCRIPTION IL 115 over Reddick Creek, 0.9 miles North of Cabery LOGGED BY Larry Myers

SECTION (104-B) LOCATION SE 1/4, SEC. 5, TWP. 29N, RNG. 9E,  
Latitude 41.012418, Longitude -88.209176

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 046-0066 (Exist.)  
Station 986+00  
BORING NO. 2 (S.W. Quad.)  
Station 986+57  
Offset 12.0 ft Rl.  
Ground Surface Elev. 676.81 ft

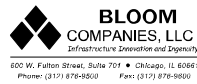
DEPTWHS	BLCS	UCS	MOTES	Surface Water Elev.	ft	DEPTWHS	BLCS	UCS	MOTES	
ft	(ft)	(/6")	(tsf)	(%)		ft	(ft)	(/6")	(tsf)	(%)
				669.89						
				669.71						
Augered HMA, White Shoulder Gravel, Black Silty Clay Loam Fill						4				
						5	4.5	16		
						5	S			
674.31										
Very Stiff Black Silty Clay Loam Fill	3					4				
	4	3.0	23			5	4.5	17		
	4	P				6	S			
671.81	-5									
Very Stiff Brown & Gray Silty Clay Loess	3					4				
	2	3.0	21			5	4.5	17		
	3	P				5	S			
669.31										
Very Stiff Brown Silty Clay Loam Till	3					4				
	2	3.1	21			5	4.5	14		
	3	S				7	S			
-10										
	2					4				
	2	3.9	20			5	4.5	15		
	4	S				6	S			
664.81										
Hard Brown & Gray Silty Clay Loam Till	6									
	9	5.2	17							
	12	S								
661.81	-15									
Hard Gray Silty Clay Loam Till - very uniform	4					4				
	6	4.6	15			5	4.5	14		
	6	S				5	S			
640.31										
End of Boring										
	4									
	5	4.6	15							
	6	S								
-20										

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

BBS, form 137 (Rev. 8-99)

**BORING #2: SW WING**

FILENAME - F:\3-1308 IDDTD\dwt\3-1308DE-IL115Reddick\_Submittals\115Reddick\_CADD\_Sheets\04622016-668713-008-Bor-log2.dgn



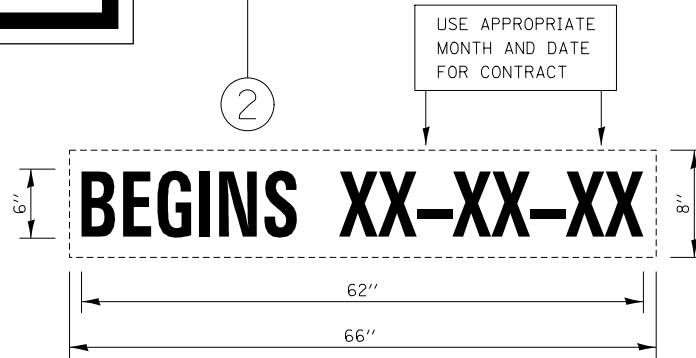
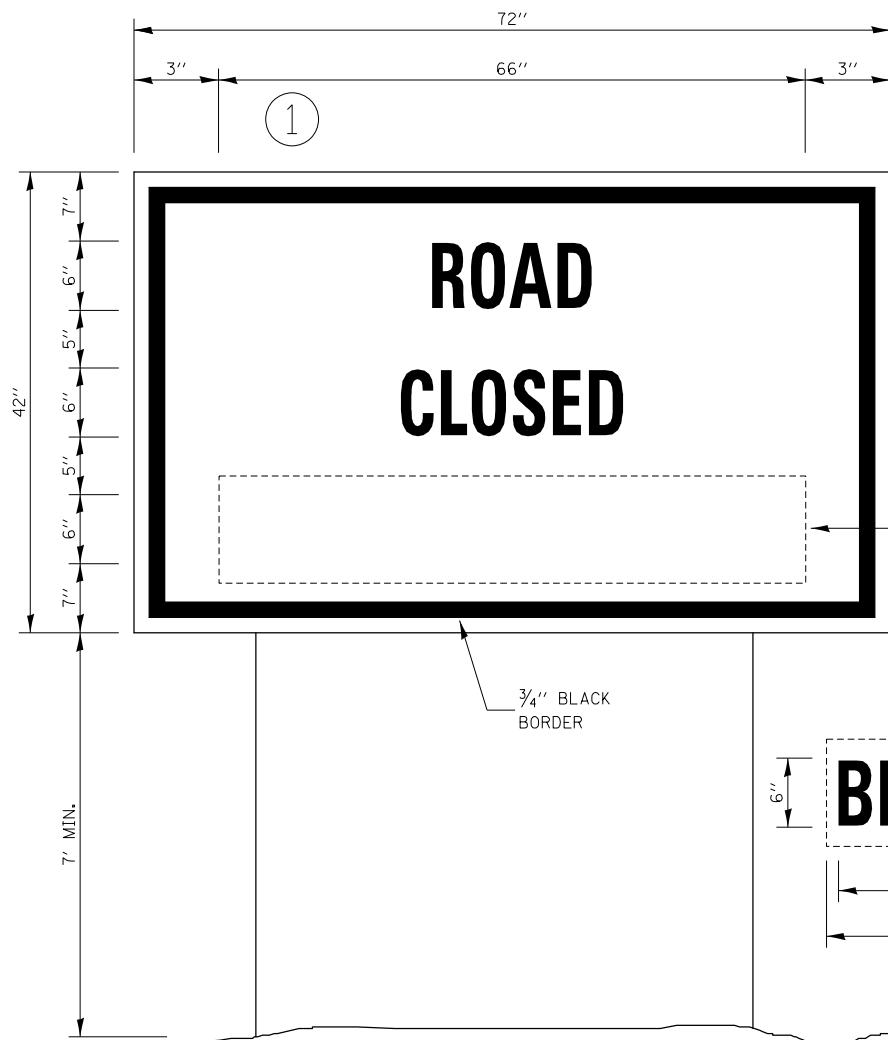
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	CHECKED -	REVISED
PLOT SCALE = N/A	DRAWN -	REVISED
PLOT DATE = 7/30/2015	CHECKED -	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS  
STRUCTURE NO. 046-2016**

SHEET NO. 8 OF 8 SHEETS

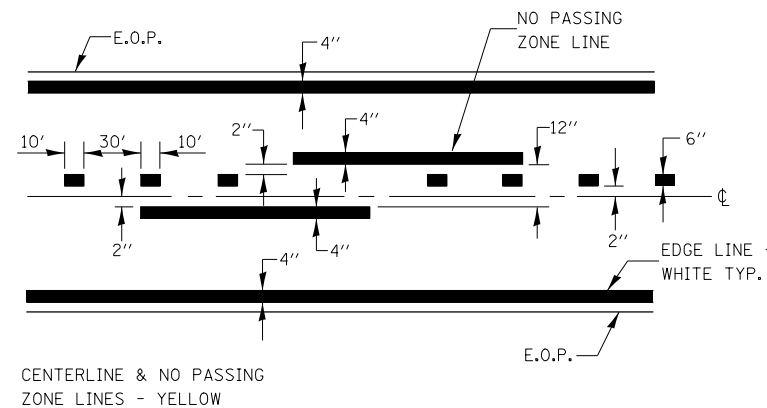
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR-1	KANKAKEE	55	37
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	



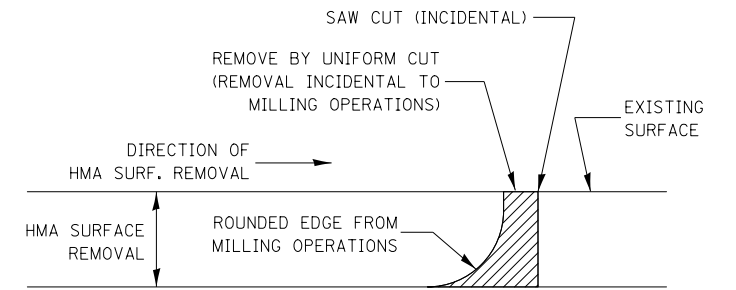
### TEMPORARY INFORMATION SIGNING

#### NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CLOSED AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



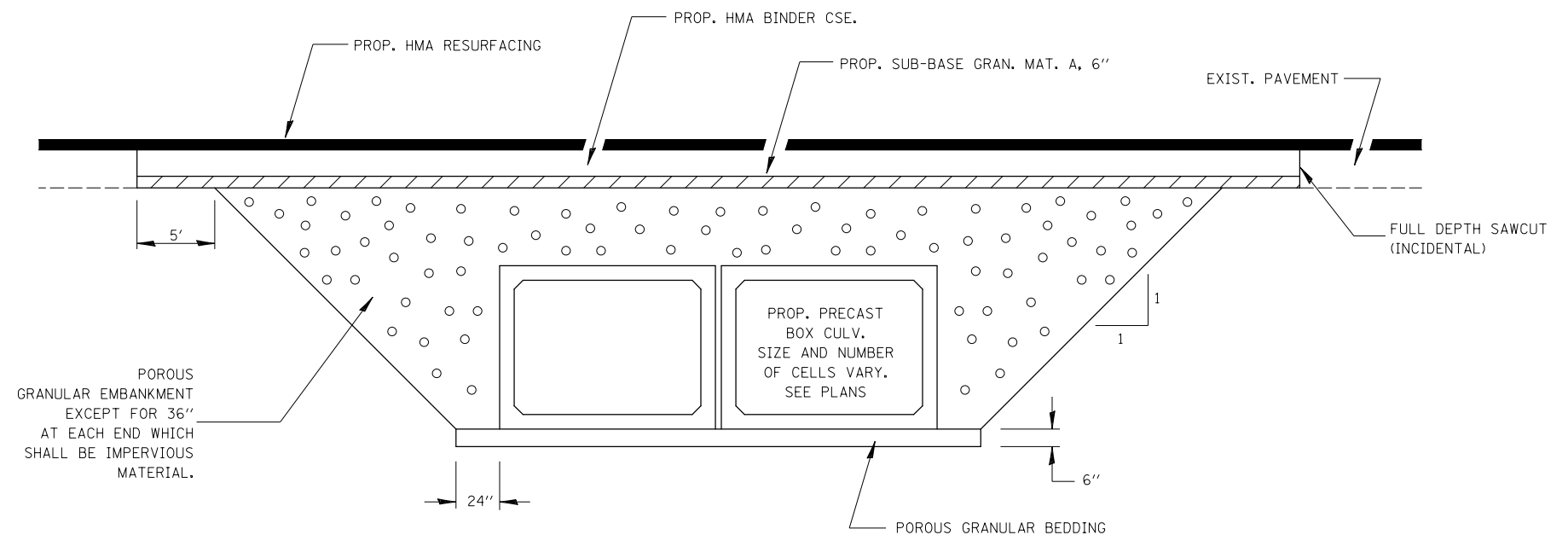
### PAVEMENT MARKING



#### 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



### SECTION THROUGH PRECAST BOX CULVERT & CIP ENDS

MODEL NAME: Detail  
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 DATE: 7/29/2015 10:29:55 AM



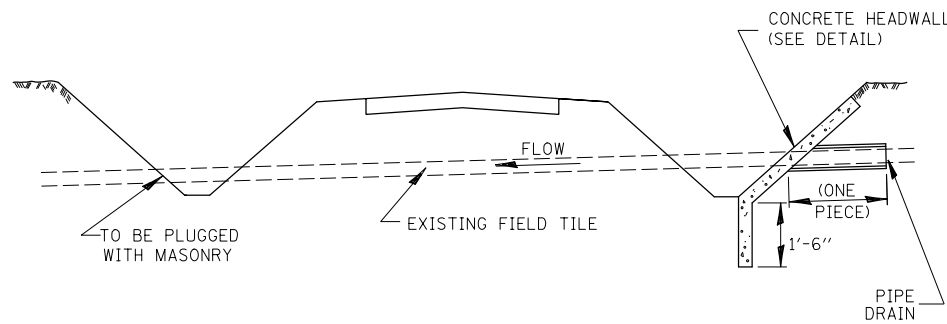
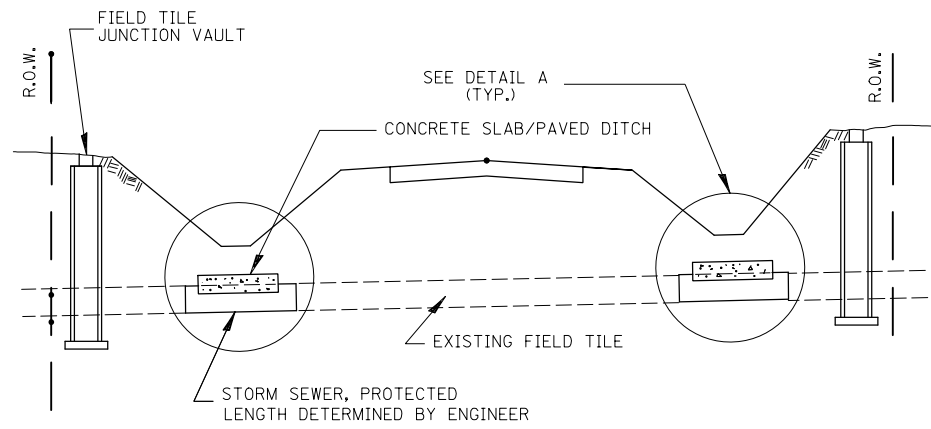
USER NAME = hferrera	DESIGNED - MMO	REVISED -
DRAWN - BRL	REVISED -	
PLOT SCALE = 100.0000' / 1"	CHECKED - MMO	REVISED -
PLOT DATE = 7/29/2015	DATE - 3/9/2015	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

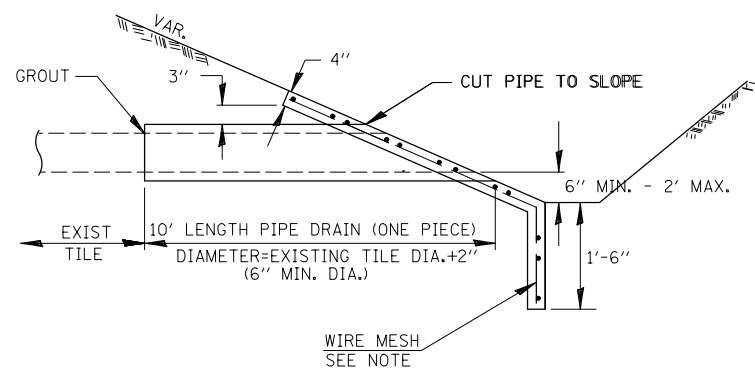
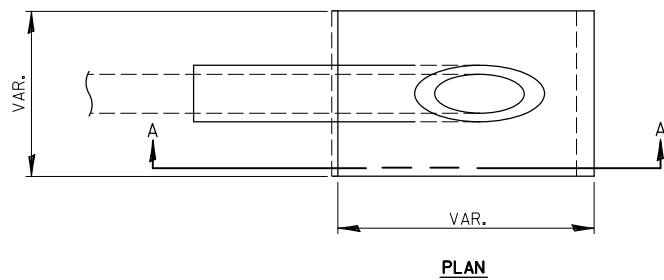
DETAILS

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	38
CONTRACT NO. 66B74			ILLINOIS FED. AID PROJECT	

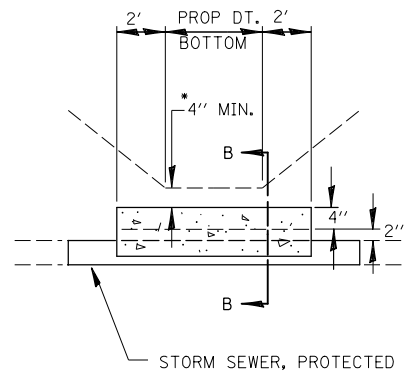


**FIELD TILE REPLACEMENT**



**SECTION A-A**

**CLASS SI CONCRETE HEADWALLS**



**DETAIL A**

NO SCALE

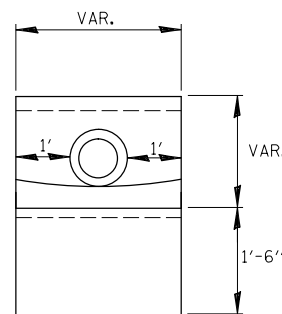
\* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

**NOTES**

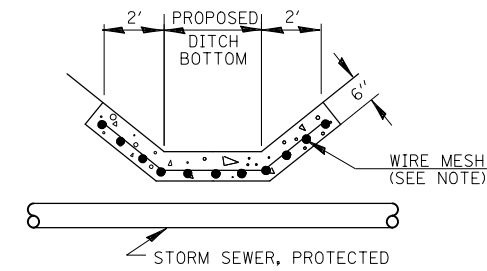
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING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

**NOTES**

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

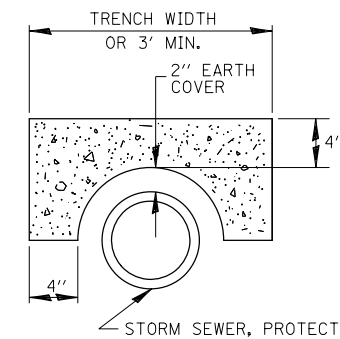


**END VIEW**

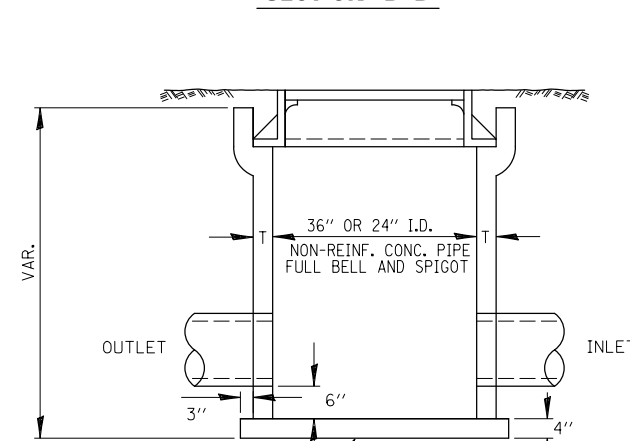


**DETAIL C**

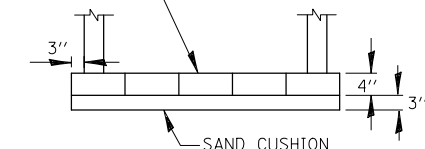
NO SCALE



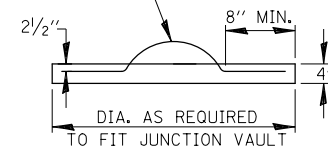
**SECTION B-B**



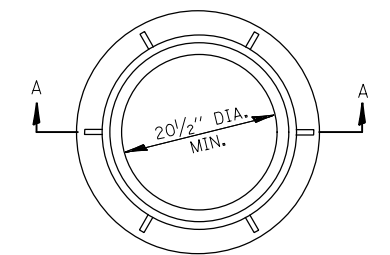
CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE



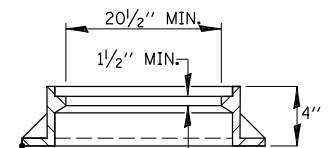
1 NO. 4 BAR LIFT LOOP



**FIELD TILE JUNCTION VAULT**



± 145#



**SECTION A-A**

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

**NOTES**

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

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 DATE - 7/29/2015



USER NAME = hferrera  
 PLOT SCALE = 100.0000' / 1"

DESIGNED - MMO  
 DRAWN - BRL  
 CHECKED - MMO  
 DATE -

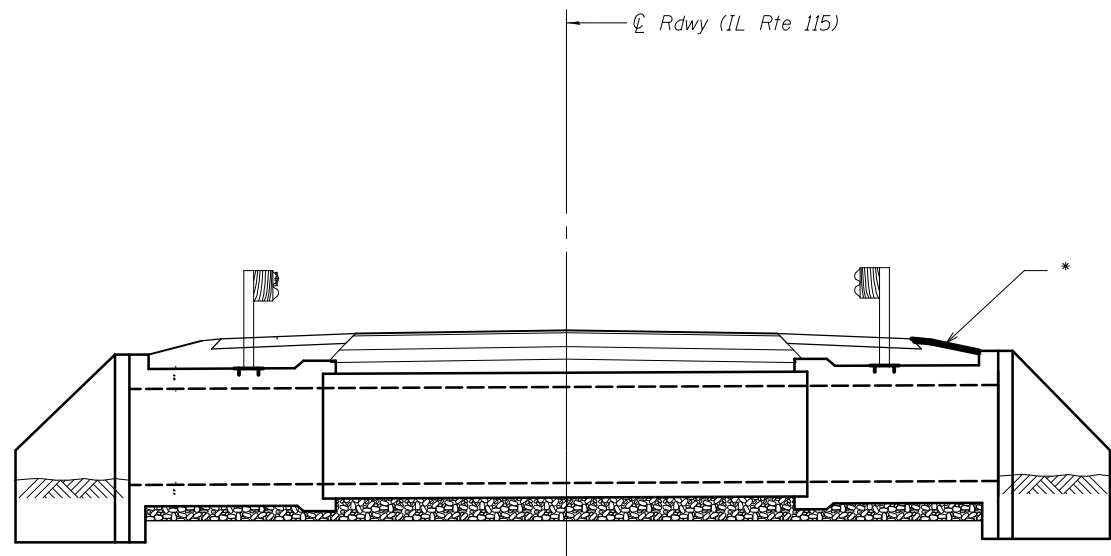
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

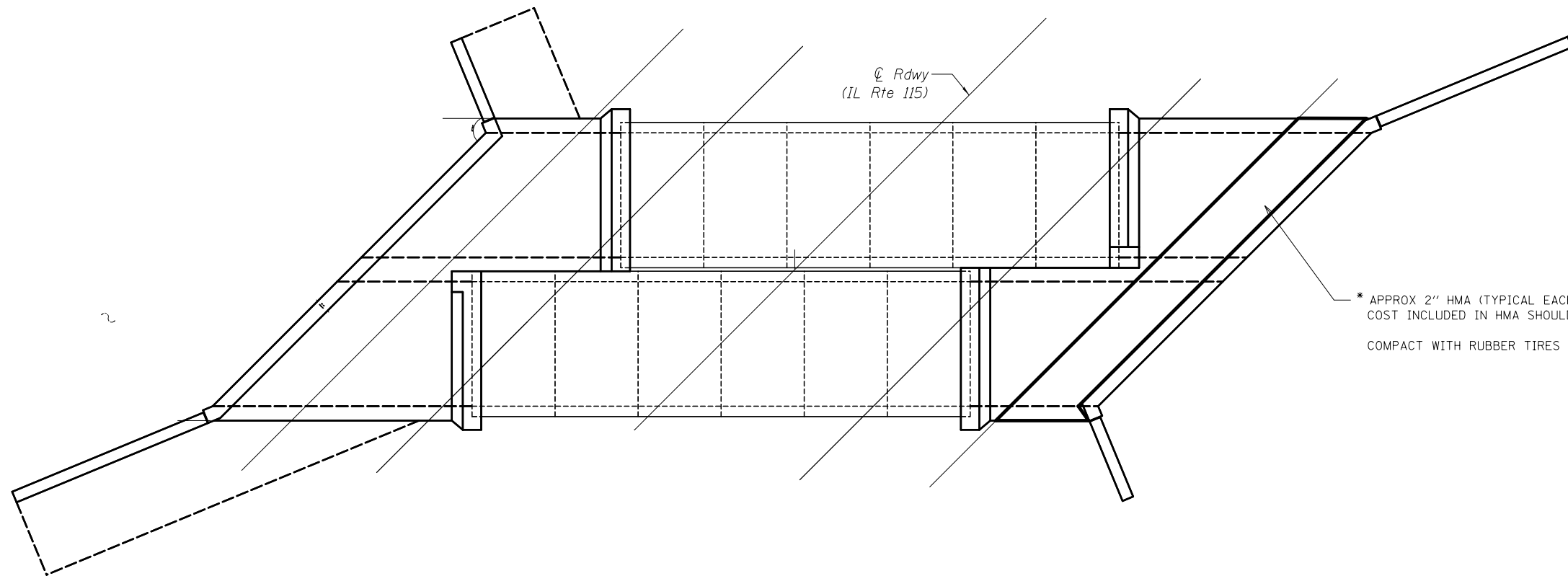
SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

**DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	39
				CONTRACT NO. 66B74
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION



\* APPROX 2" HMA (TYPICAL EACH SIDE OF BOTH BOX CULVERT LOCATIONS  
COST INCLUDED IN HMA SHOULDERS 8"  
COMPACT WITH RUBBER TIRES OR A PLATE COMPACTOR

PLAN

MODEL NAME: Detail  
 FILE NAME: F:\31588\DOT\DOT 31-13080E\115\Final\Drawings\CD05Sheet030815-SP\_Detail.dwg



USER NAME = hferrera	DESIGNED - MMO	REVISED -
	DRAWN - BRL	REVISED -
PLOT SCALE = 100.0000' / 1" =	CHECKED - MMO	REVISED -
PLOT DATE = 7/29/2015	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET 2 OF 2 SHEETS	STA. TO STA.
--------	---------------------	--------------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	40
				CONTRACT NO. 66B74
ILLINOIS FED. AID PROJECT				

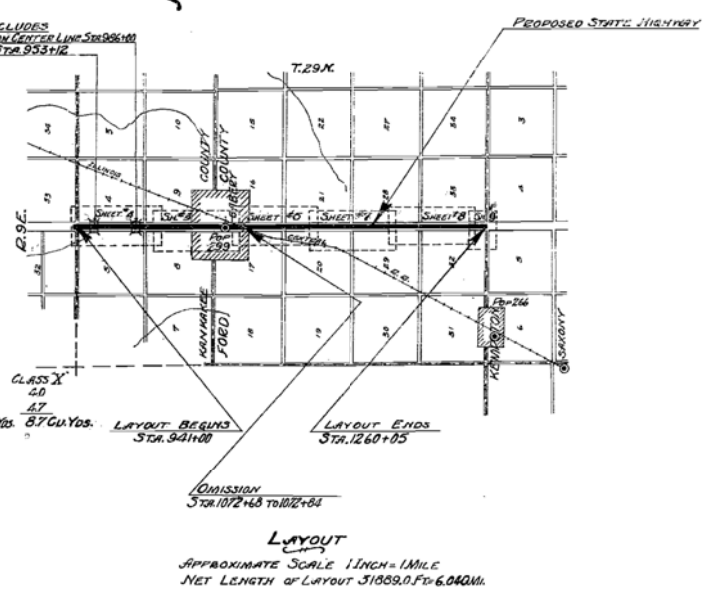


INDEX TO SHEETS	
SHEET NO.	TITLE PAGE
1	STANDARD CROSS SECTIONS NO. 1032-1130
2	STANDARD CROSS SECTIONS NO. 1210-1180 (with Cover)
3	PLAN & PROFILE STA. 941+00 STA. 1000+00
4	" " " " 1000+00 " " 1060+00
5	" " " " 1060+00 " " 1120+00
6	" " " " 1120+00 " " 1180+00
7	" " " " 1180+00 " " 1240+00
8	" " " " 1240+00 " " 1260+00
9	" " " " " " " "
1022 BRIDGE CROSS SECTIONS	
10	STANDARD GULCH DESIGN NO. 828-1
11	SPECIAL " " " " STA. (942+65) L&P; 1207+10
12	" " " " " " (994+60) R
13	" " " " " " (994+60) L
14	" " " " " " (994+60) R
15	" " " " " " (994+60) L
16	" " " " " " (994+60) R
17	" " " " " " (994+60) L
18	" " " " " " (994+60) R
19	" " " " " " (994+60) L
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21	" " " " " " (994+60) L
22	" " " " " " (994+60) R
23	" " " " " " (994+60) L
24	" " " " " " (994+60) R
25	" " " " " " (994+60) L
26	" " " " " " (994+60) R
27	" " " " " " (994+60) L
28	" " " " " " (994+60) R
29	" " " " " " (994+60) L
30	" " " " " " (994+60) R
31	" " " " " " (994+60) L
32	" " " " " " (994+60) R
33	" " " " " " (994+60) L
34	" " " " " " (994+60) R

115 FORD 104 34  
KANKAKEE 104 34

**ROUTE 115, SEC. 104-104B, FORD-KANKAKEE COUNTIES.**  
FROM A POINT NEAR THE S.W. CORNER OF SECTION 33, T. 30 N., R. 9 E. OF THE 3<sup>RD</sup> P.M. TO A POINT NEAR THE S.W. CORNER OF SECTION 33, T. 29 N., R. 9 E. OF THE 3<sup>RD</sup> P.M.

SUMMARY OF QUANTITIES	
<b>SECTION 104</b>	<b>SECTION 104-B</b>
30778 Cu. Yds. CLASS A EXCAVATION	2243 Cu. Yds. CLASS A CONCRETE
14131 Cu. Yds. BORROW	8.7 Cu. Yds. CLASS X CONCRETE
543 Rods of HEDGE PULLING	2770 LBS. REINFORCING STEEL
437036 Yds. PAVEMENT	1470 LIN. FT. UNTR. 10 TON PILING
123 SETTING C.O.W. MARKERS	2 NAME PLATES
242.7 Cu. Yds. CLASS A CONCRETE	
22.090 LBS. REINFORCING STEEL	



SUMMARY OF CONCRETE		
<b>SECTION 104</b>	<b>SECTION 104-B</b>	
22 STANDARD CULV. DESIGN NO. 828-13	CLASS A	418
SPECIAL " " " " STA. (942+65) L&P; 1207+10		17.1
" " " " " " (994+60) R		13.9
" " " " " " (994+60) L		35.4
" " " " " " (1006+18; 1059+00; 1084+33)		29.7
" " " " " " (1060+00)		23.0
" " " " " " (1148+00; 1163+00)		20.8
" " " " " " (1192+63)		11.2
" " " " " " (1241+00)		24.6
" " " " " " (1255+50)		45.9
TOTAL		267.4 Cu. Yds.

**SUMMARY**

STATION TO STATION	GROSS LENGTH ALONG TRANSIT LINE	CORRECTIONS FOR CURVES	CORRECTIONS FOR RELOCATIONS	NET LENGTH OF LAYOUT ALONG FINAL CENTER LINE	OMISSIONS	NET LENGTH TO BE IMPROVED IN FEET	PAVEMENT OVER BRIDGES		Sq. Yds. OF PAVEMENT	
							STRA.	FEET	Sq. Yds.	FT. TOTAL
041+00 1047+00	1003.0			1003.0		1003.0				
1047+00 1120+00	73.0			73.0		73.0				
1120+00 1260+05	1400.5			1400.5		1400.5				
TOTALS	3196.5			3196.5		3196.5				

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS  
DIVISION OF HIGHWAYS  
DATE: DECEMBER 17 1984  
M.J. FLEMING  
12-30-84  
12-30-84  
12-30-84

DESIGNED BY CLM 12/15/84

**EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"**

NOTE: NAME - C:\pwork\115\FordKank\Drawings\CADD\104-104B-115-FORD-KANKAKEE-104-34.DWG  
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USER NAME = hferrero	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	41
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				

B.M. #199 Spk and W. in Hedge  
Fence Left Sta 949+98 Elev. 142.94

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

REINFORCED CONCRETE SLAB  
SPAN - TWENTY FOUR FEET

BOND ISSUE ROUTE NO. 115 COUNTY FORD KANKAKEE SEC. 104-B TOTAL SHEETS 34 SHEET NO. 31

RAIL A  
RAIL B  
RAIL C

CROSS SECTION OF SLAB

BILL OF MATERIAL

	16 FT. ROADWAY	18 FT. ROADWAY	20 FT. ROADWAY	24 FT. ROADWAY	30 FT. ROADWAY
<b>RAIL A</b>	Bars No. Size Length a 23 1" 28'-0" b 24 1/2" 20'-0" c 6 1/2" 25'-6" d 52 3/4" 4'-6" Steel Lbs 5310 Concrete Cu Yds 280	Bars No. Size Length a 23 1" 28'-0" b 24 1/2" 22'-0" c 6 1/2" 25'-6" d 52 3/4" 4'-6" Steel Lbs 5520 Concrete Cu Yds 399	Bars No. Size Length a 23 1" 28'-0" b 24 1/2" 24'-0" c 6 1/2" 25'-6" d 52 3/4" 4'-6" Steel Lbs 6340 Concrete Cu Yds 329	Bars No. Size Length a 169 1" 28'-0" b 124 1/2" 28'-0" c 4 1/2" 25'-6" d 121 3/4" 4'-6" Steel Lbs 7470 Concrete Cu Yds 378	Bars No. Size Length a 185 1" 28'-0" b 48 1/2" 18'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel Lbs 9160 Concrete Cu Yds 452
<b>RAIL B</b>	Bars No. Size Length a 153 1" 28'-0" b 24 1/2" 22'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel Lbs 5110 Concrete Cu Yds 286 Brick Rail Cu Yds 20	Bars No. Size Length a 153 1" 28'-0" b 24 1/2" 22'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel Lbs 5830 Concrete Cu Yds 291 Brick Rail Cu Yds 20	Bars No. Size Length a 58 1" 28'-0" b 24 1/2" 24'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel Lbs 6120 Concrete Cu Yds 315 Brick Rail Cu Yds 20	Bars No. Size Length a 169 1" 28'-0" b 124 1/2" 28'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel Lbs 7210 Concrete Cu Yds 309 Brick Rail Cu Yds 20	Bars No. Size Length a 185 1" 28'-0" b 48 1/2" 18'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel Lbs 8860 Concrete Cu Yds 437 Brick Rail Cu Yds 20
<b>SPINDLE RAIL C</b>	Bars No. Size Length a 153 1" 28'-0" b 24 1/2" 22'-0" c 4 1/2" 25'-6" d 44 1/2" 4'-6" Steel Lbs 5230 Concrete Cu Yds 274	Bars No. Size Length a 153 1" 28'-0" b 24 1/2" 22'-0" c 4 1/2" 25'-6" d 44 1/2" 4'-6" Steel Lbs 5730 Concrete Cu Yds 298	Bars No. Size Length a 58 1" 28'-0" b 24 1/2" 24'-0" c 4 1/2" 25'-6" d 44 1/2" 4'-6" Steel Lbs 6270 Concrete Cu Yds 323	Bars No. Size Length a 169 1" 28'-0" b 124 1/2" 28'-0" c 4 1/2" 25'-6" d 44 1/2" 4'-6" Steel Lbs 7900 Concrete Cu Yds 372	Bars No. Size Length a 85 1" 28'-0" b 48 1/2" 18'-0" c 4 1/2" 25'-6" d 12 1/2" 4'-6" Steel Lbs 9100 Conc. A Cu Yds 411 Conc. X Cu Yds 30 c 18 1/2" 4'-6"

PLAN

Use Class A Concrete below top of hubguard Proportions 1:2 1/2 : 4  
Use Class X Concrete above top of hubguard Proportions 1:2:3 1/2

USE RAIL C, 30 FT ROADWAY.

STATION 953+12  
STATE BOND ISSUE ROUTE 115  
SECTION 104-B KANKAKEE CO.

Name Plate 1.

COMPUTED - *Walter H. Todd*  
CHECKED - *...*  
DRAWN - *...*  
CHECKED - *...*  
ASSEMBLED - *...*  
CHECKED - *...*

DESIGNED - *...*  
DRAWN - *...*  
CHECKED - *...*  
APPROVED - *...*

EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"

EX SN 046-0067 (PROP SN 046-2017)

USER NAME = hferrero	DESIGNED -	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/29/2015	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	42
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				

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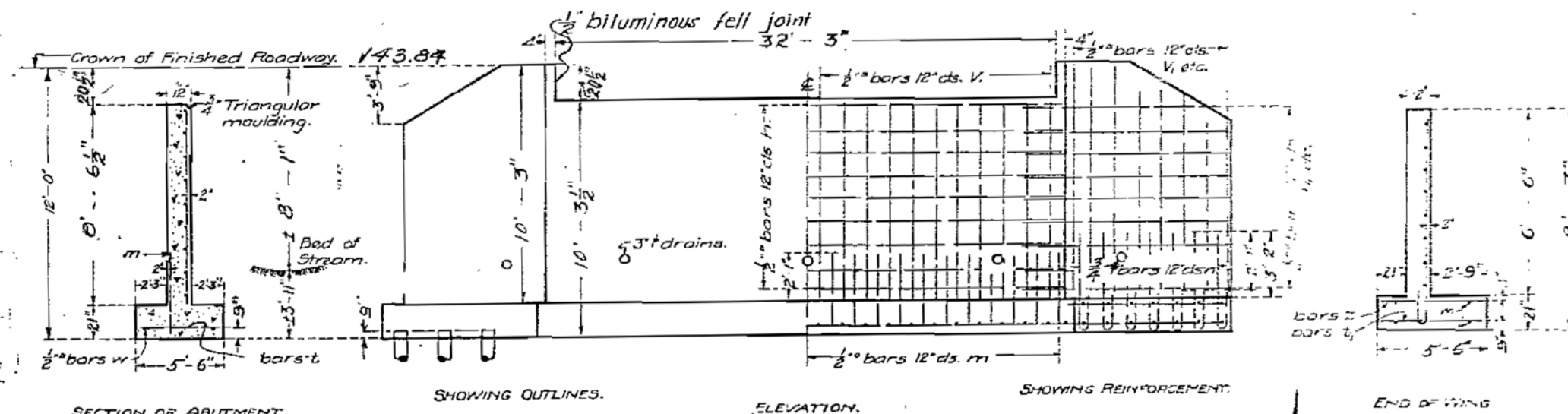
Existing I Beam Structure 15'-0" Span  
 14'-0" Rdy to be removed by contractor  
 B.M. #199 Spk and W. in Hedge Fence  
 Lt. Sta. 949+98 Elev. 142.94.

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

Sheet No 2  
 2 Sheets.

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
115	FORD KANKAKEE	104-B	34	31

R.C. ABUTMENTS FOR SLAB BRIDGE  
 HEIGHT OVER ALL 12 FEET

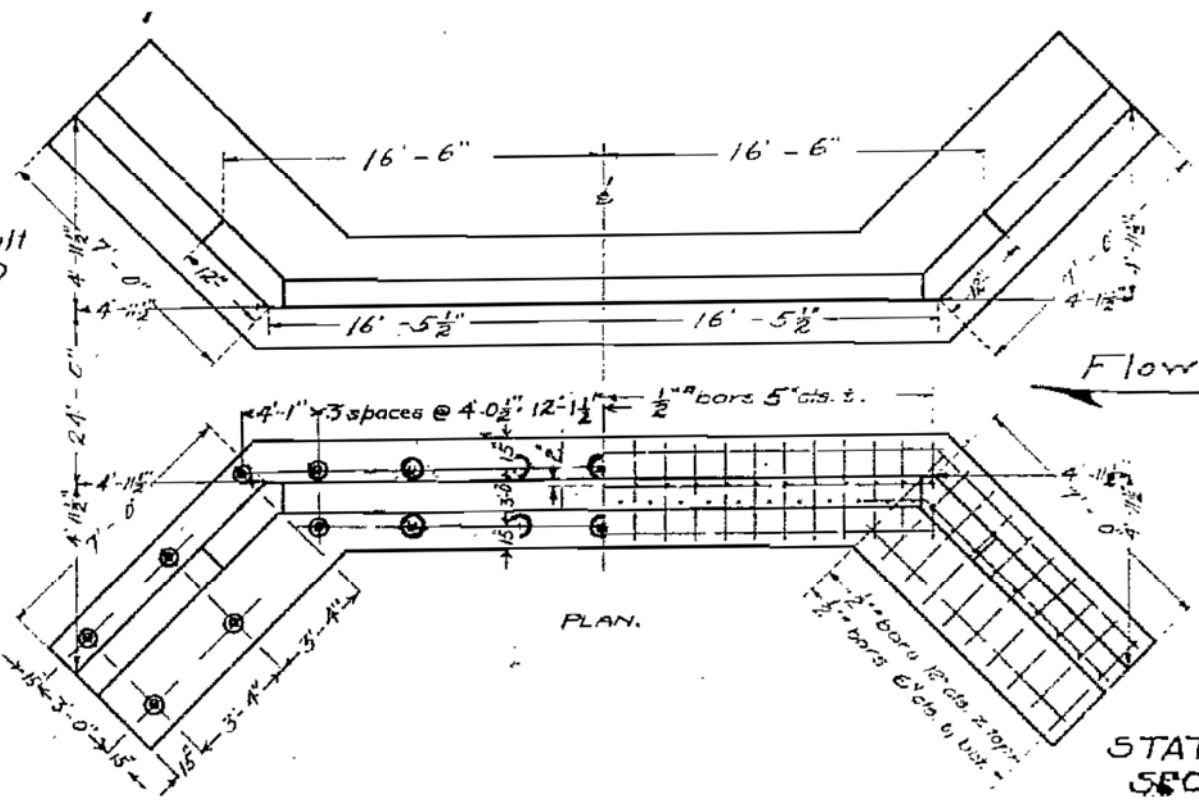


Class A concrete shall be used throughout  
 Proportions: 1:2 1/2:4.  
 All reinforcing steel shall be securely wired in place before concrete is poured.

© 10 Ton Unt. Piles 10" Bolt 8" Tip. 48 Required = 720 Lineal Feet.

STANDARD	COMPUTED - H.H. Duffell
	CHECKED - E.D. Looney
	DRAWN - J.P. Sullivan
SPECIAL	CHECKED - H.P.D.
	ASSEMBLED - M. S. Ferguson
	CHECKED - M. S. Ferguson

EXAMINED Dec 16 1925  
 A.F. Brunel  
 BRIDGE ENGINEER  
 APPROVED  
 Frank J. Shute  
 CHIEF HIGHWAY ENGINEER



BILL OF MATERIAL.

Bars	No.	Size	Length
V	66	1/2"	8'-0"
W	12	1/2"	8'-0"
U	8	1/2"	6'-6"
V	8	1/2"	5'-6"
h	36	1/2"	17'-6"
n	28	1/2"	9'-0"
h <sub>2</sub>	8	1/2"	6'-0"
b	156	1/2"	5'-3"
l	60	1/2"	5'-3"
z	28	1/2"	5'-3"
w	8	1/2"	17'-6"
W	16	1/2"	8'-0"
m	66	1/2"	3'-0"
n	28	1/2"	6'-3"
Reinforcing Steel Lbs.			3150
Concrete Cu. Yds.			61.9

STATION 953+12  
 STATE BOND, ISSUE ROUTE 115  
 SECTION 104B KANKAKEE CO.  
 877

EXISTING STRUCTURAL PLAN SHEETS  
 "FOR REFERENCE USE ONLY"

EX SN 046-0067 (PROP SN 046-2017)

USER NAME = hferrero	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 7/29/2015	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	43
				CONTRACT NO. 66B74
ILLINOIS FED. AID PROJECT				

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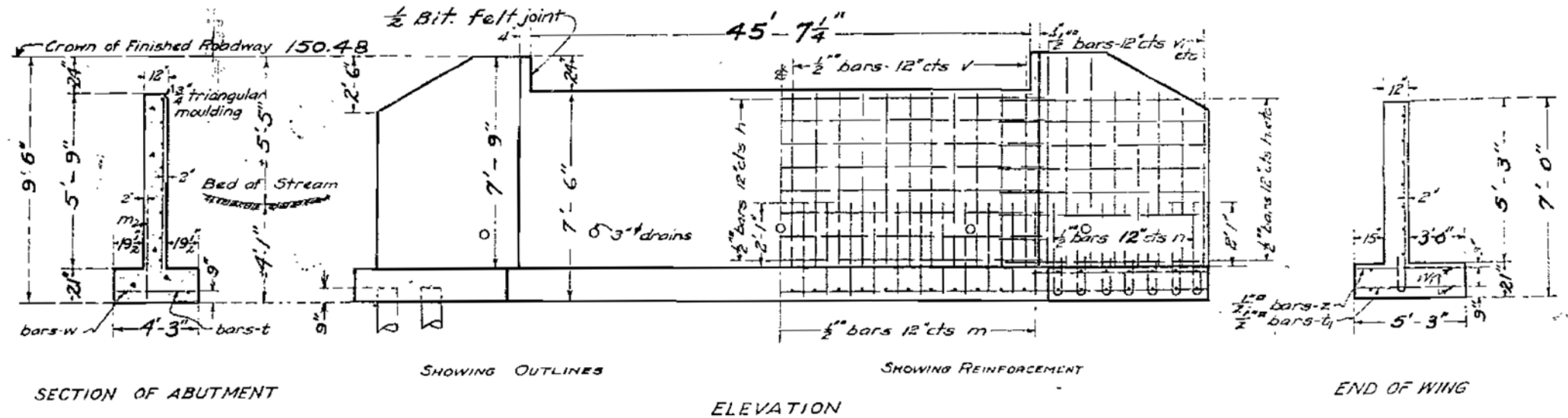
Note: Existing structure, steel I-beams, 20' span, 14' roadway to be removed by the bridge contractor. B.M. #207 Spk and Washer in Fc.P. Lt. Sta. 984+97. Elev. 148.35

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

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
115	FORD KANKAKEE	104B	34	32

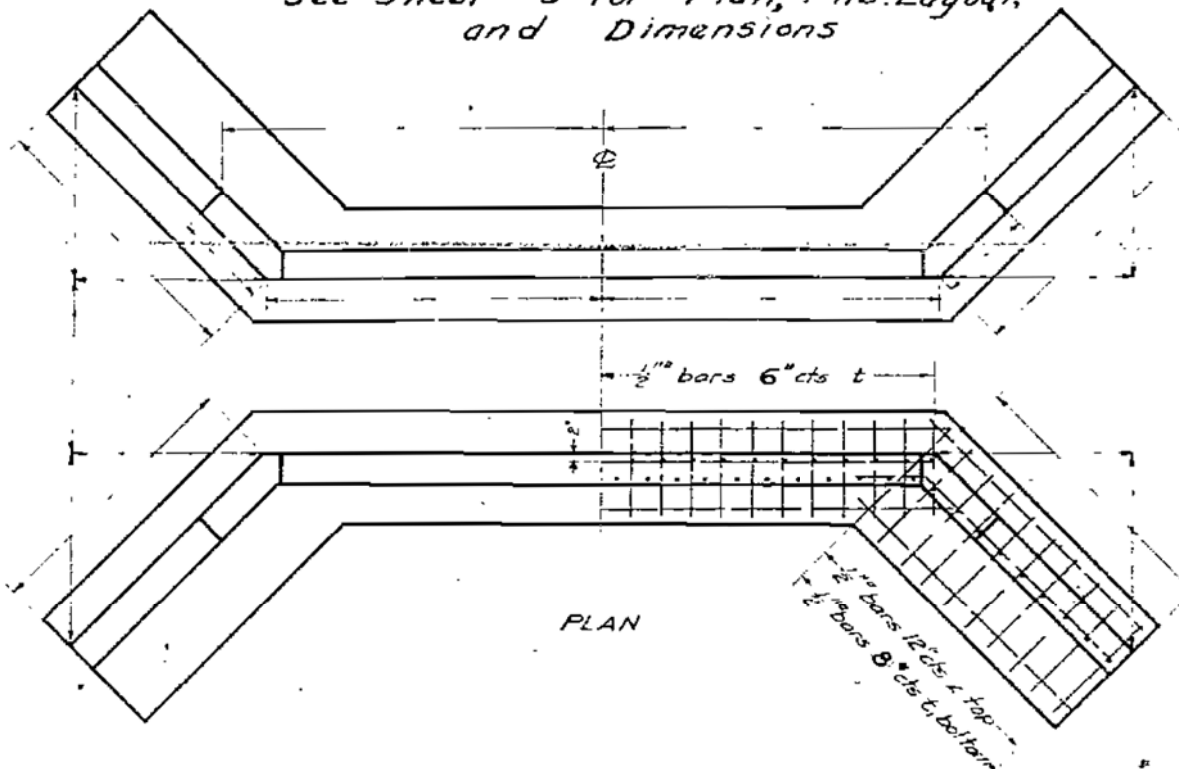
Sheet No 2  
3 Sheets

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



Note: Class A concrete shall be used throughout. Proportions 1:2 1/2:4. All reinforcing steel to be securely wired in place before concrete is poured.

See Sheet #3 for Plan, Pile Layout, and Dimensions



BILL OF MATERIAL

Bars	No	Size	Length
v	92	1/2"	5'-6"
v	12	1/2"	7'-6"
v	16	1/2"	6'-0"
w	8	1/2"	7'-0"
h	24	1/2"	24'-0"
h	12	1/2"	10'-6"
h	12	1/2"	8'-0"
t	184	1/2"	4'-0"
t	46	1/2"	5'-0"
z	32	1/2"	5'-0"
w	8	1/2"	24'-0"
w	8	1/2"	9'-6"
n	28	1/2"	4'-6"
m	92	1/2"	3'-0"
Reinforcing Steel			Lbs. 2840
Concrete			Cu Yds 61.4
Piling-10 Ton Lin.Pf.			750

STATION 986+00  
S.B.I. - ROUTE 115  
SEC. 104B - KANKAKEE CO.

975

EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"

EX SN 046-0066 (PROP SN 046-2016)

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PLOT DATE = 7/29/2015	CHECKED -	REVISED -
	DATE -	REVISED -

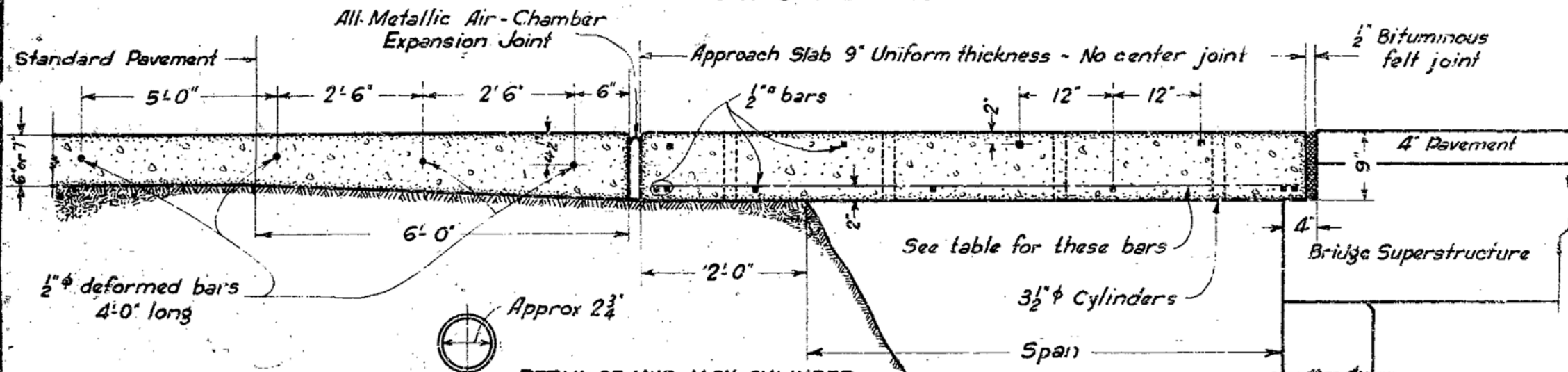
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

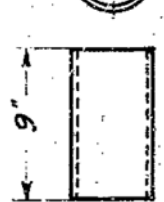
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	44
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				

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



BARS PARALLEL TO  $\phi$

SPAN	LENGTH	SIZE	SP'CG.
7'-0"	9'-0"	2" $\square$	6"
8'-0"	10'-0"	2" $\square$	5"
9'-0"	11'-0"	2" $\square$	5"
10'-0"	12'-0"	3" $\phi$	5"
11'-0"	13'-0"	3" $\phi$	4"
12'-0"	14'-0"	3" $\phi$	4"
13'-0"	15'-0"	3" $\phi$	5"
14'-0"	16'-0"	3" $\phi$	5"
15'-0"	17'-0"	3" $\phi$	4"
16'-0"	18'-0"	3" $\phi$	4"
17'-0"	19'-0"	7" $\phi$	5"
18'-0"	20'-0"	7" $\phi$	4"

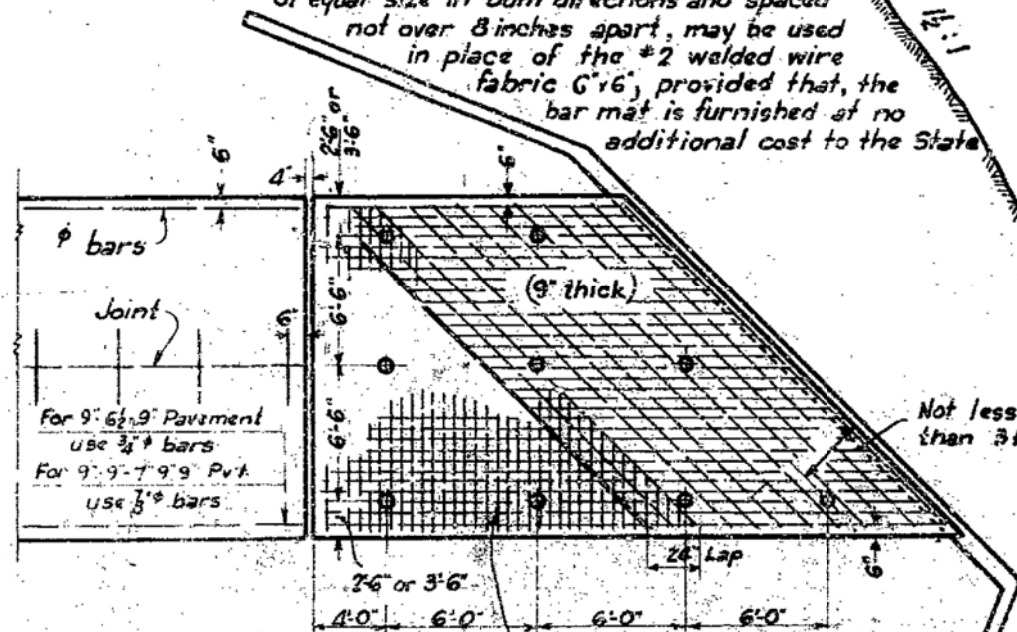


DETAIL OF MUD JACK CYLINDER

Standard black iron pipe cylinder to be filled with clay, tamped & hardened

NOTE: A welded bar mat weighing not less than 78 lbs. per 100 sqft having members of equal size in both directions and spaced not over 8 inches apart, may be used in place of the #2 welded wire fabric 6"x6", provided that, the bar mat is furnished at no additional cost to the State

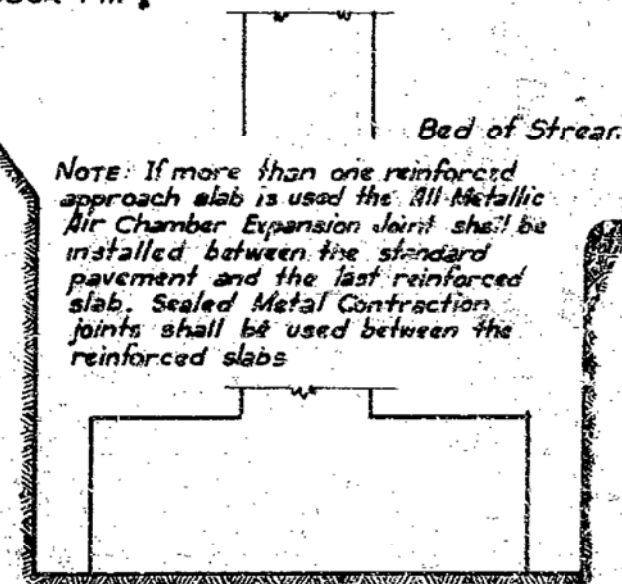
NOTE - The cost of constructing the pavement in accordance with this design at such points as are designated on the detail plans, including all extra materials except reinforcement, shall be included in the unit price bid for pavement. No extra compensation will be allowed except for reinforcement, which will be paid for at the contract unit prices for Reinforcement Bars and Welded Wire Fabric



PLAN  
SKEW BRIDGE

For skew of 10° or more use #2 welded wire fabric, 6"x6", placed 2" below top of slab  
For skew of less than 10°, omit fabric

Back Fill



NOTE: If more than one reinforced approach slab is used the All-Metallic Air Chamber Expansion Joint shall be installed between the standard pavement and the last reinforced slab. Sealed Metal Contraction joints shall be used between the reinforced slabs

EXAMINED *G. F. Burch*  
BRIDGE ENGINEER  
PASSED *A. J. Durman*  
ENGINEER OF DESIGN

APRIL 11, 1932  
RETRACED - (1-26-31) H.L.F.

STANDARD DETAILS  
FOR  
PAVEMENT AND CONSTRUCTION JOINT  
ADJACENT TO BRIDGES

STANDARD No 1203

EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"

NOTE: NAME, DATE, FILE NAME, FLS 1588 10/17/04 3:53:06E \\USFBack\Drawings\030565 SW E Plans.dgn

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	DRAWN -	REVISED -
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PLOT DATE = 7/29/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	45
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				



As Built

04-27-12 LETTING ITEM 169

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 796 (IL 115)  
SECTION (104B)i-1

BRIDGE REPAIRS  
SN 046-0066 OVER REDDICK CREEK  
0.9 MILES NORTH OF CABERY  
KANKAKEE COUNTY

C-93-064-12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104B)i-1	KANKAKEE	12	1
ILLINOIS			CONTRACT NO. 66B94	

- INDEX OF SHEETS**
1. COVER SHEET
  2. GENERAL NOTES
  3. SUMMARY OF QUANTITIES
  4. TYPICAL SECTION
  - 5 - 6. STAGING DETAILS
  7. WIDTH RESTRICTION SIGNING
  - 8 - 12. STRUCTURE DETAILS

- STANDARDS**
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
  - 001001-02 AREAS OF REINFORCEMENT BARS
  - 001006 DECIMAL OF AN INCH AND OF A FOOT
  - 420701-02 PAVEMENT FABRIC
  - 631032-07 TRAFFIC BARRIER TERMINAL, TYPE 6A
  - 701006-03 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
  - 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS < 45 MPH
  - 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
  - 701321-12 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
  - 701901-02 TRAFFIC CONTROL DEVICES
  - 704001-07 TEMPORARY CONCRETE BARRIER



RURAL  
MINOR ARTERIAL  
FAP 796 (IL 115)  
2011

ADT	500
P.V.	89.09%
S.U.	7.27%
M.U.	3.64%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

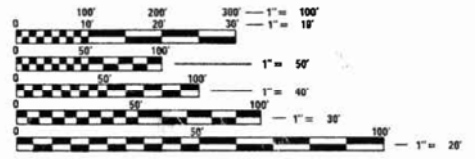
SUBMITTED 2-16 2012  
Eric S. Thek  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23 2012  
John D. Baranzelli, P.E.  
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 23 2010  
William R. Frey, Jr.  
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

PROJECT LOCATION  
STRUCTURE NO. 046-0066



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 NO. (815) 434-6131  
PROJECT ENGINEER JOE KANNEL P.E.  
UNIT CHIEF RON WOODSHANK  
TOWNSHIP NORTON  
CONTRACT NO. 66B94

EXISTING STRUCTURAL PLAN SHEETS  
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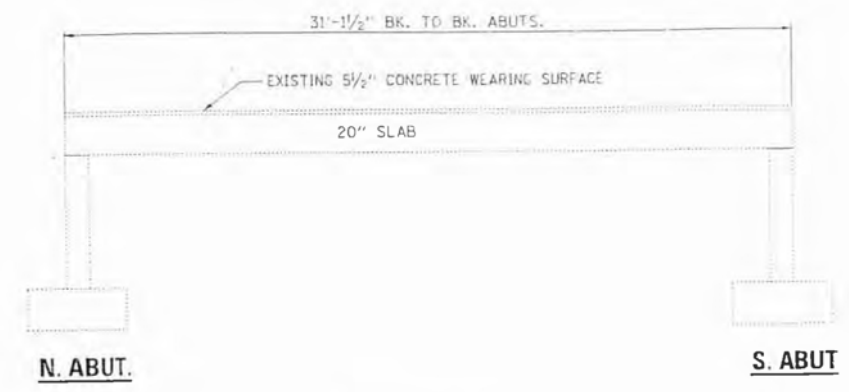
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DEPARTMENT OF TRANSPORTATION

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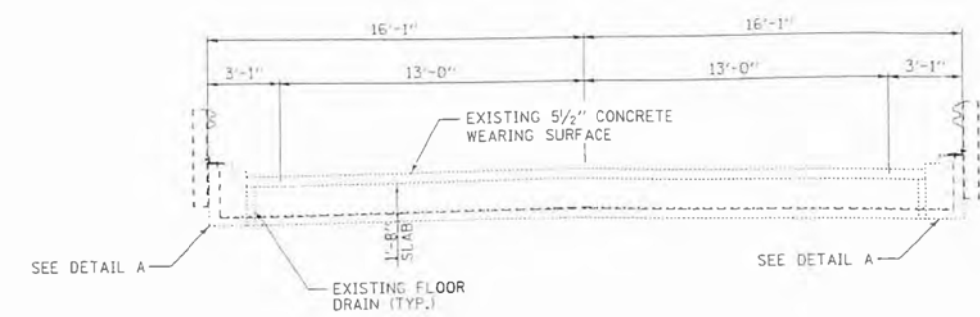
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS			CONTRACT NO. 66B74	
FED. AID PROJECT				

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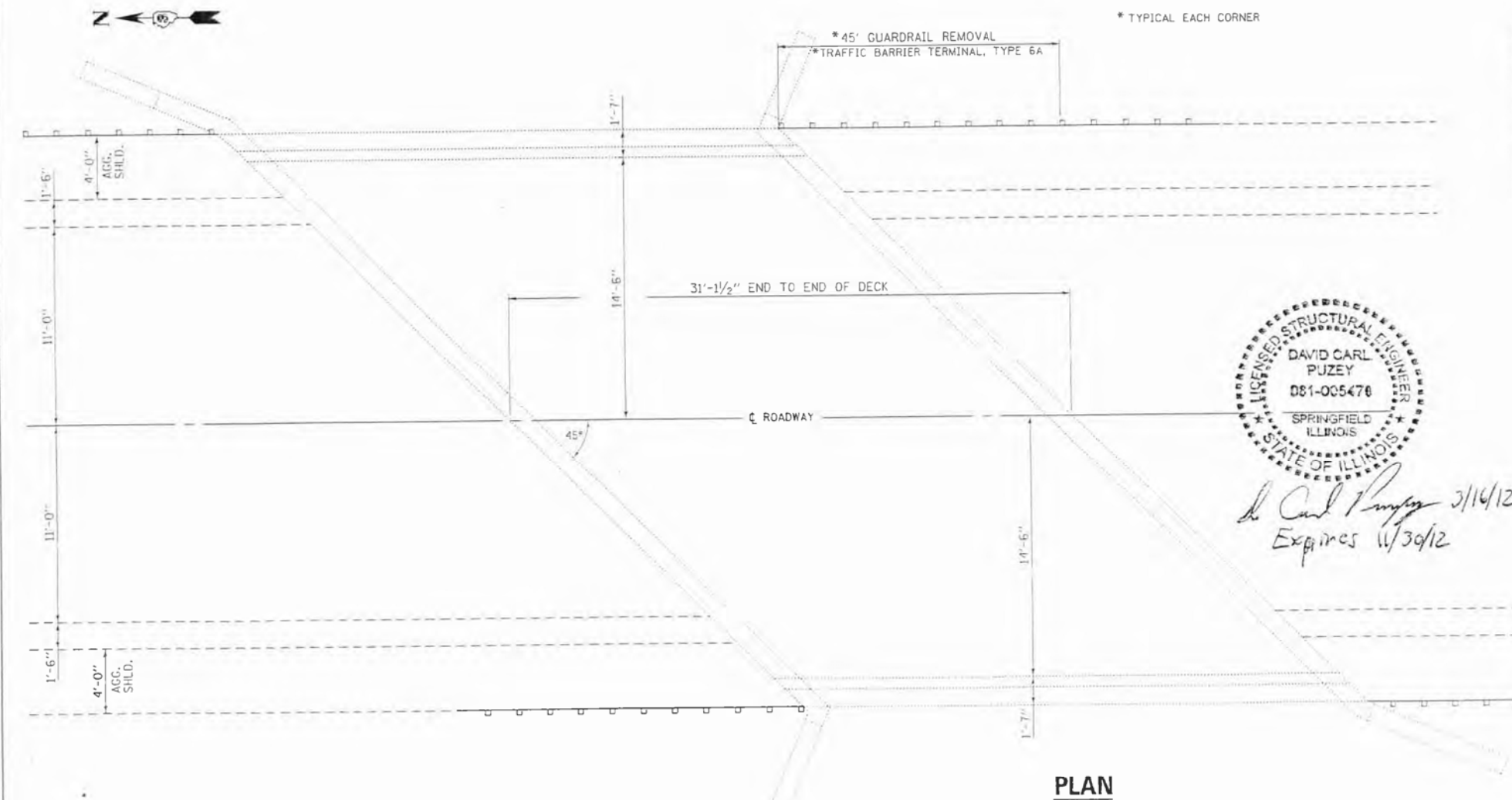
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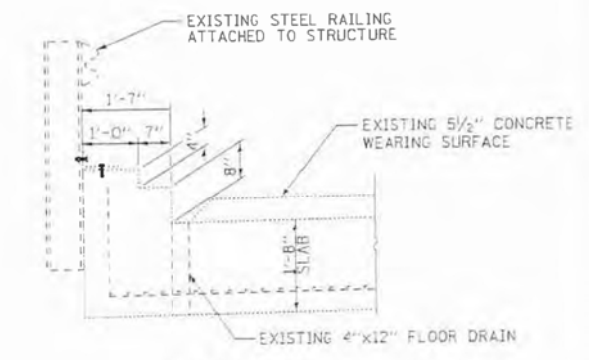
**ELEVATION**



**CROSS SECTION**



**PLAN**



**DETAIL A**



*David Carl Puzey 3/14/12  
Expires 11/30/12*

**TOTAL BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	30.4
CONCRETE SUPERSTRUCTURE	CU YD	44
REINFORCEMENT BARS EPOXY COATED	POUND	15870
BAR SPLICERS	EACH	66
STEEL RAILING TYPE SM	FOOT	62
STEEL RAILING REMOVAL	FOOT	62
CONCRETE WEARING SURFACE REMOVAL	SQ YD	90
BRIDGE DECK GROOVING	SQ YD	111
PROTECTIVE COAT	SQ YD	111
PREFORMED JOINT FILLER	FOOT	10

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING GENERAL PLAN AND ELEVATION  
FOR STRUCTURE NO. 046-0066

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR-1	KANKAKEE	12	8
			CONTRACT NO. 66B54	

**EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"**

EX SN 046-0066 (PROP SN 046-2016)

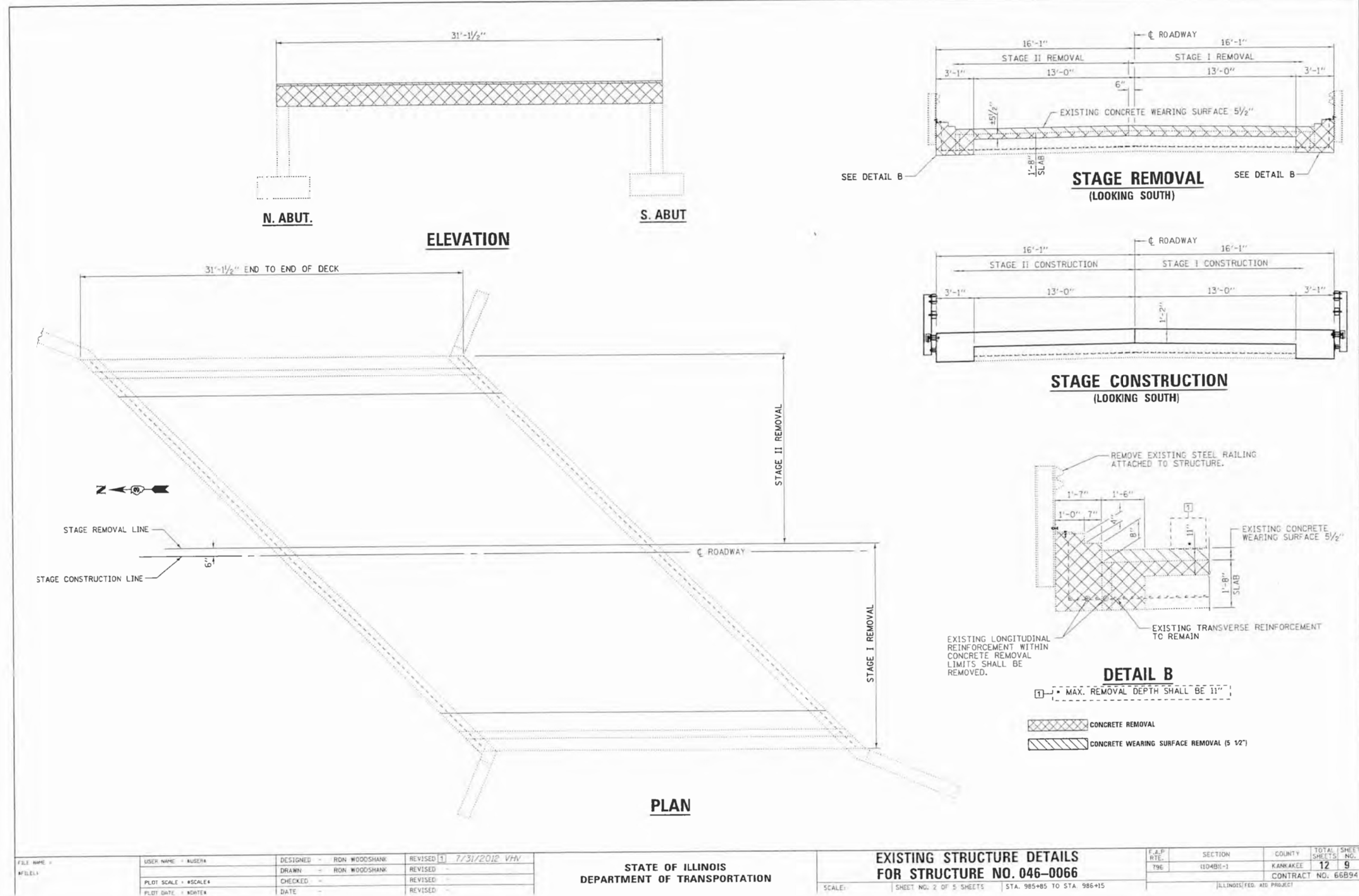
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PLOT DATE = 7/29/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS  
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	47
			CONTRACT NO. 66B74	
ILLINOIS FED. AID PROJECT				

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	PLOT DATE = *DATE*	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS  
FOR STRUCTURE NO. 046-0066

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR-1	KANKAKEE	12	9
			CONTRACT NO. 66B94	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 2 OF 5 SHEETS STA. 985+85 TO STA. 986+15

EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"

EX SN 046-0066 (PROP SN 046-2016)

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PLOT DATE = 7/29/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

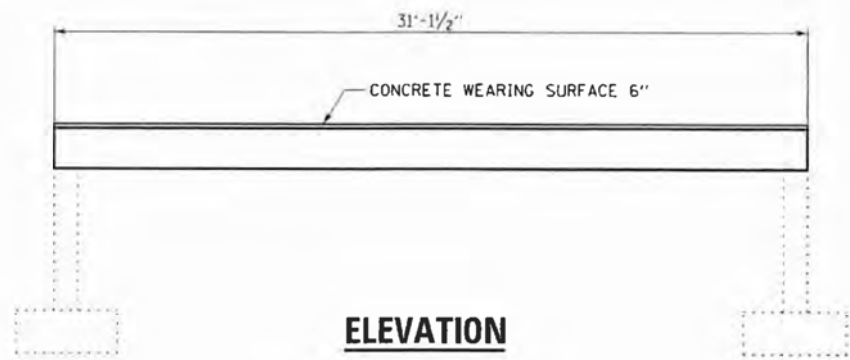
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SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

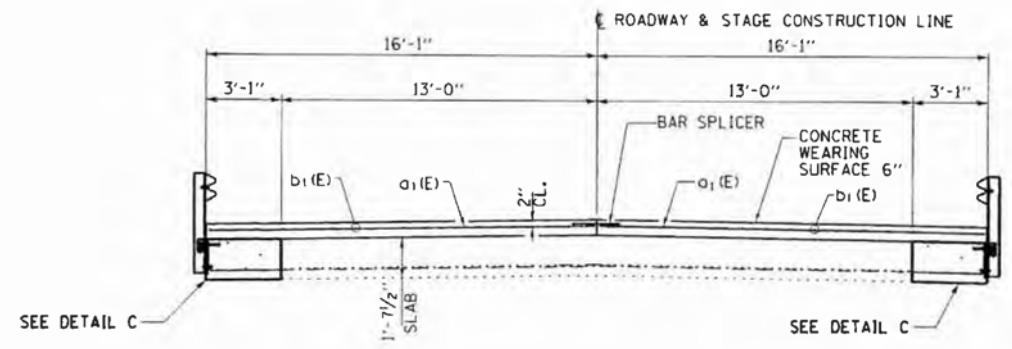
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	48
			CONTRACT NO. 66B74	
ILLINOIS FED. AID PROJECT				

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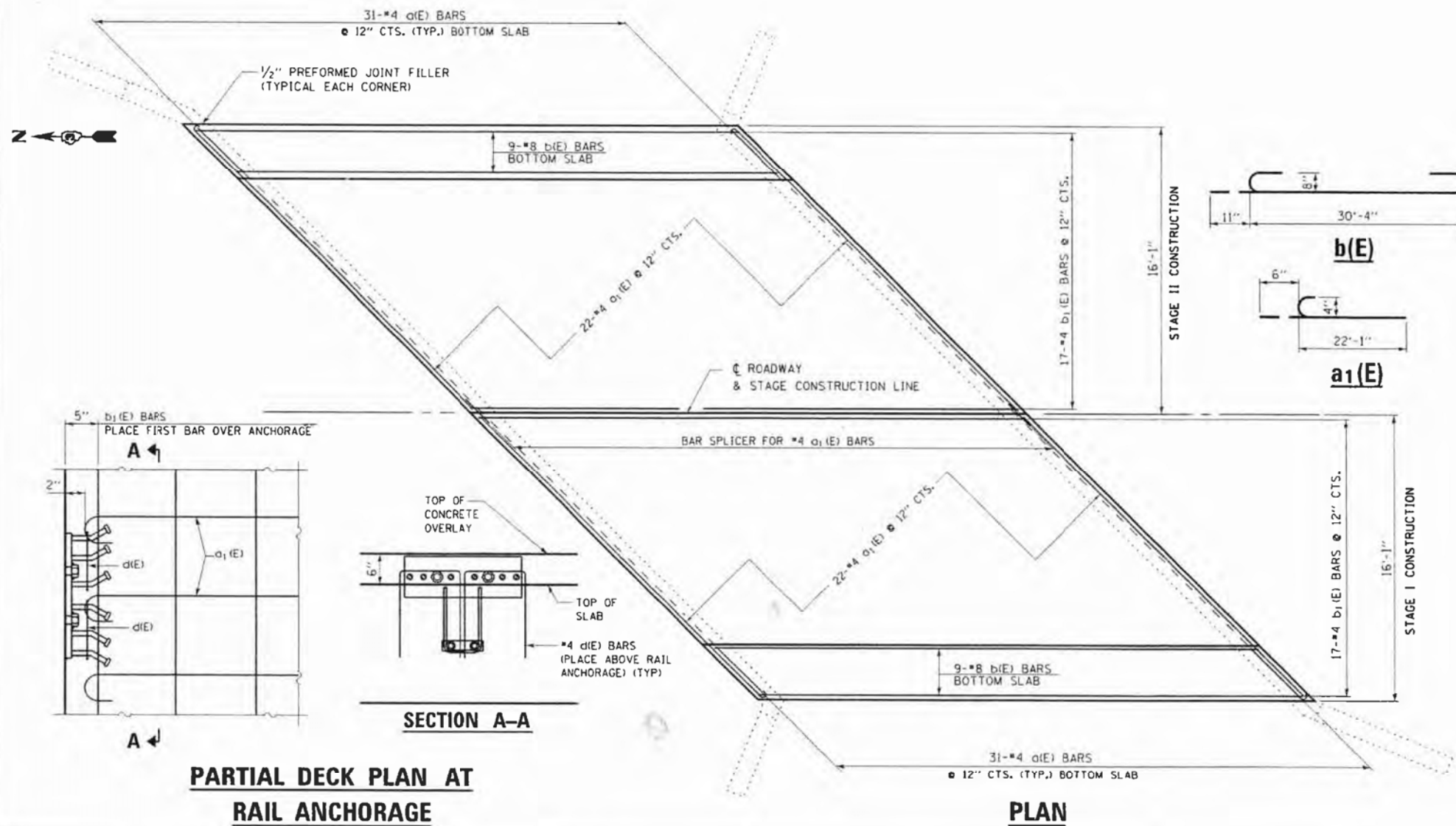




**ELEVATION**

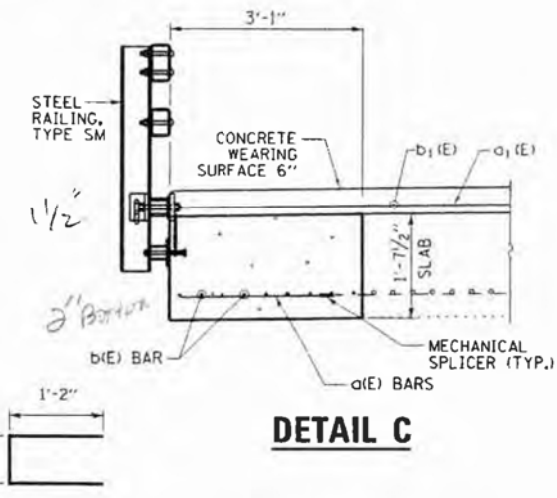


**CROSS SECTION**



**PARTIAL DECK PLAN AT RAIL ANCHORAGE**

**PLAN**



**DETAIL C**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	62	#4	2'-7"	—
a <sub>1</sub> (E)	44	#4	22'-7"	⌋
b(E)	18	#8	32'-2"	⌋
b <sub>1</sub> (E)	34	#4	30'-9"	—
d(E)	38	#4	3'-1"	⌋
CONCRETE REMOVAL			CU YD	16.7
CONCRETE SUPERSTRUCTURE			CU YD	11.6
REINFORCEMENT BARS EPOXY COATED			LBS.	3100
STEEL RAILING, TYPE SM			FOOT	62
STEEL RAILING REMOVAL			FOOT	62
CONCRETE BRIDGE DECK SCARIFICATION (3/8")			SO YD	90
CONCRETE WEARING SURFACE REMOVAL			SO YD	90
CONCRETE WEARING SURFACE 6"			SO YD	111
BRIDGE DECK GROOVING			SO YD	111
PROTECTIVE COAT			SO YD	111
PREFORMED JOINT FILLER			FOOT	10

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FILE NAME: F:\3588\DOT\DOT\3513080E\USF\Rebar\Drawings\C0505\Rebar\030505_Sm_E_Plans.dgn	USER NAME: woodshankr	DESIGNED: RON WOODSHANK	REVISED: -
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	PLOT DATE: 3/16/2012	DATE: -	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED STRUCTURE DETAILS  
FOR STRUCTURE NO. 046-0066  
SCALE: SHEET NO. 3 OF 5 SHEETS STA. 985+85 TO STA. 986+15

F.A.P. RTE. 796	SECTION (104BR)-1	COUNTY KANKAKEE	TOTAL SHEETS 12	SHEET NO. 10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B94	

**EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"**

**EX SN 046-0066 (PROP SN 046-2016)**

USER NAME: hferrero	DESIGNED: -	REVISED: -
	DRAWN: -	REVISED: -
PLOT SCALE: 2.0000' / in.	CHECKED: -	REVISED: -
PLOT DATE: 7/29/2015	DATE: -	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS  
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 796	SECTION 104BR & BR-1	COUNTY KANKAKEE	TOTAL SHEETS 55	SHEET NO. 49
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B74	

06-15-12 LETTING ITEM 150

INDEX OF SHEETS

- 1. COVER SHEET
- 2. GENERAL NOTES
- 3. SUMMARY OF QUANTITIES
- 4. TYPICAL SECTION
- 5. STRUCTURE PLANS

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-03 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \*\*e\*\* 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701901-02 TRAFFIC CONTROL DEVICES

AS Built

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

FAP 796 ROUTE (IL 115)  
 SECTION (104BR)I

BRIDGE REPAIR  
 FURNISHING & ERECTING STRUCTURAL STEEL  
 FOR SLAB SUPPORT ON SN 046-0067  
 KANKAKEE COUNTY  
 C-93-126-12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(104BR)I	KANKAKEE	5	1
		ILLINOIS	CONTRACT NO. 66C30	



RURAL  
 MIN ARTERIAL NON-URB  
 FAP 796 (IL 115)  
 2011

ADT	500
P.V.	91.6%
S.L.L.	5.8%
M.L.L.	2.6%

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED 4/6 20 12

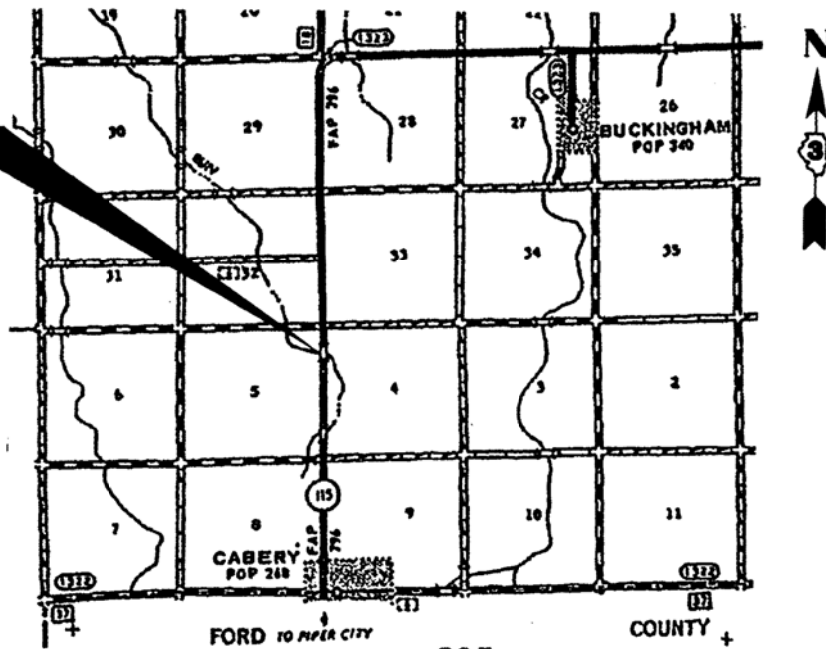
*Eric S. ...*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11 20 12  
*John D. ...*  
 ENGINEER OF DESIGN AND ENVIRONMENT

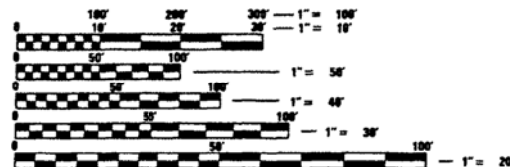
May 11 20 12  
*William R. ...*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

PROJECT LOCATION  
 SN 046-0067  
 STA. 953 + 12



GROSS LENGTH = 26 FT. = .005 MILE  
 NET LENGTH = 26 FT. = 0.005 MILE



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.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-882-0123  
 OR 811

DISTRICT NO. (815)-434-6131

PROJECT ENGINEER: JOE KANNEL, P.E.  
 UNIT CHIEF: RON WOODSHANK  
 TOWNSHIP: NORTON

CONTRACT NO. 66C30

EXISTING STRUCTURAL PLAN SHEETS  
 "FOR REFERENCE USE ONLY"

EX SN 046-0067 (PROP SN 046-2017)

USER NAME = hferrero	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 7/29/2015	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

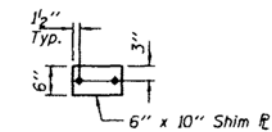
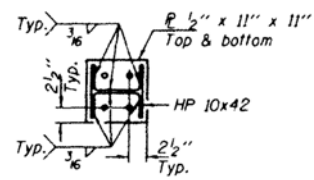
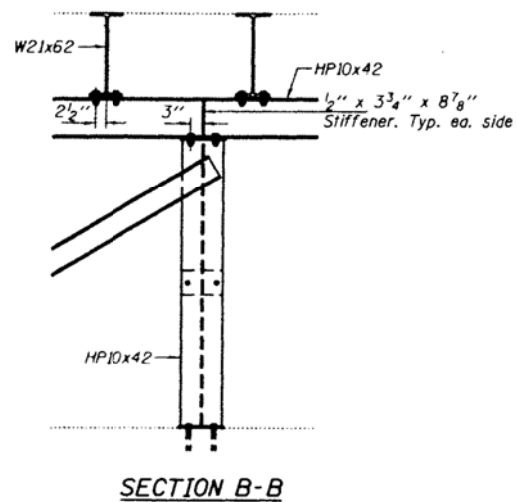
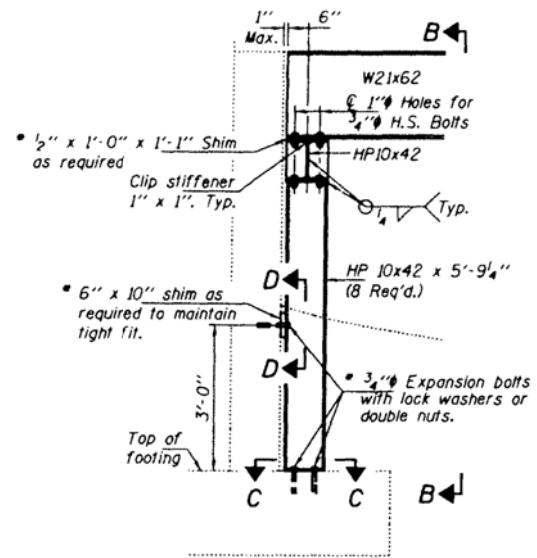
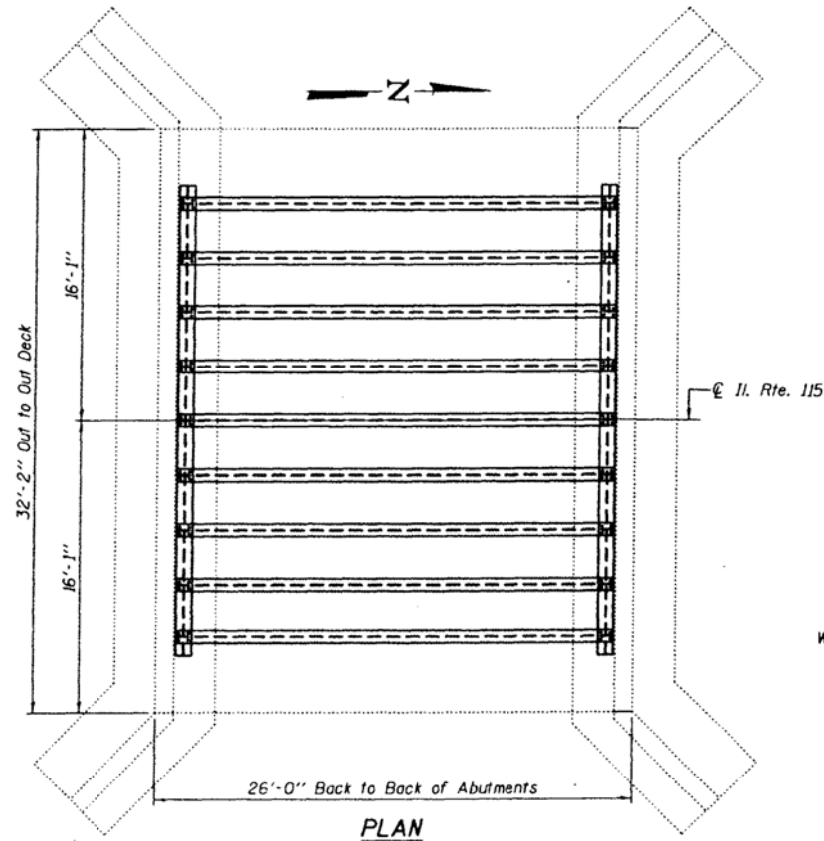
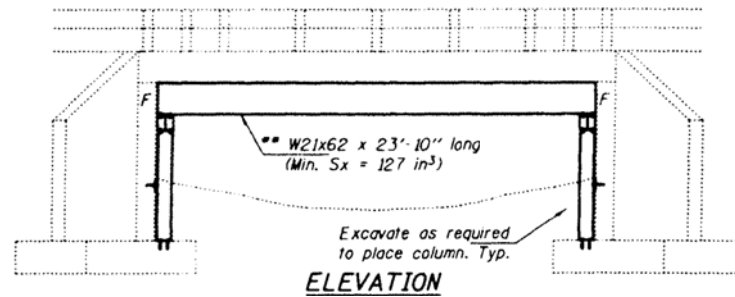
EXISTING STRUCTURAL PLANS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	50
		ILLINOIS	CONTRACT NO. 66B74	

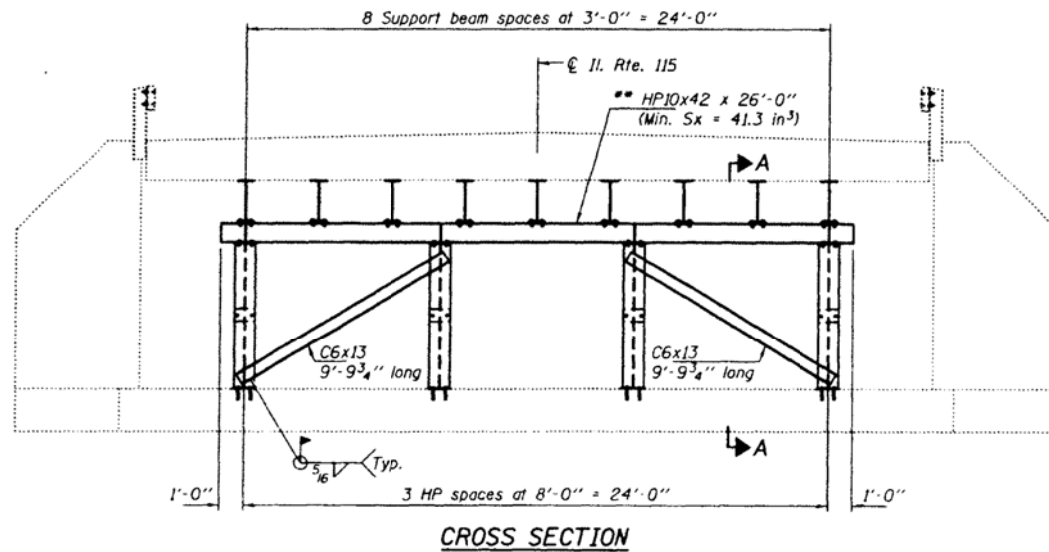
ILLINOIS FED. AID PROJECT

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**SECTION A-A**

\* Cost included with Furnishing & Erecting Structural Steel.



\* Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures. Maximum Girder depth = 21". No additional payment will be allowed if the contractor chooses a heavier steel section than the one specified in the plans.

**GENERAL NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The contractor is advised that the existing slab is in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the slab when developing construction procedures.

See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods; Minimum embedment 9".

If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the existing slab. To distribute load and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying surface.

The cost of epoxy grouting threaded rods on the abutments shall be included with Furnishing and Erecting Structural Steel.

The Contractor has the option of using used steel. See Special Provisions.

CALVIN  
LUNNY 217-564-6122



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	18590

DESIGNED: <i>[Signature]</i>	EXAMINED: <i>[Signature]</i>	DATE: MAY 8, 2012
CHECKED: <i>[Signature]</i>	PASSED: <i>[Signature]</i>	REVISED: _____
DRAWN: <i>[Signature]</i>	ACTING ENGINEER OF BRIDGES & STRUCTURES	REVISED: _____
CHECKED: <i>[Signature]</i>		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION  
IL 115 OVER RED DICK CREEK  
SN 046-0067

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	(104BR)	KANKAKEE	5	5
CONTRACT NO. 66C30				
ILLINOIS FED. AID PROJECT				

EXISTING STRUCTURAL PLAN SHEETS  
"FOR REFERENCE USE ONLY"

EX SN 046-0067 (PROP SN 046-2017)

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PLOT SCALE = 2.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/29/2015	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

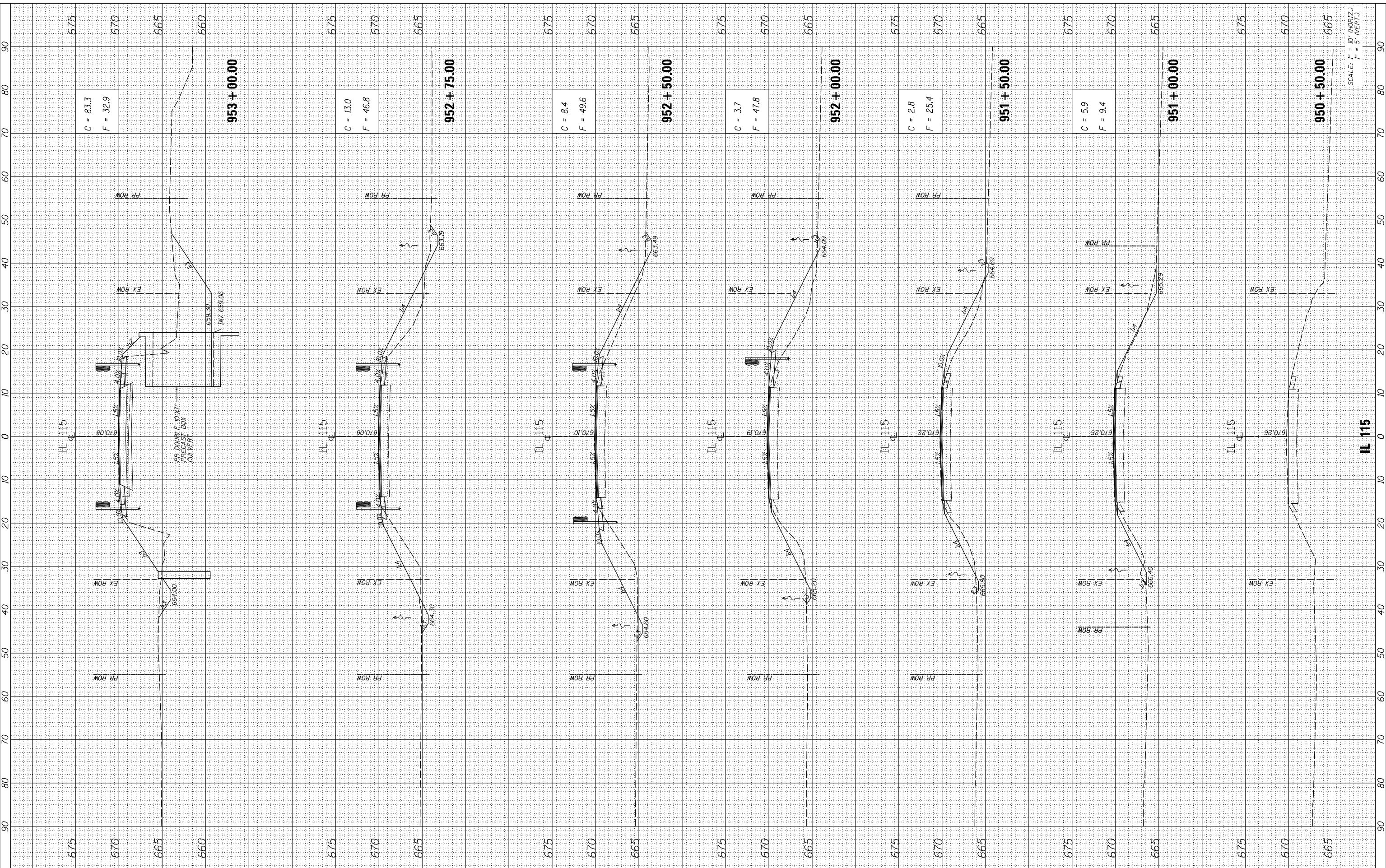
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796	104BR & BR-1	KANKAKEE	55	51
CONTRACT NO. 66B74				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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DESIGNED	- MMO
DRAWN	- BRL
CHECKED	- MMO
DATE	- 3/9/2015
PLOT SCALE	= 20.0000" / in.
PLOT DATE	= 7/29/2015

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-115 SN 046-2017  
CROSS SECTIONS**

SCALE: 1" = 10' SHEET OF SHEETS STA. 950+50.00 TO STA. 953+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104BR & BR-1	KANKAKEE	55	52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B74	



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_____	AREAS CHECKED	_____

ORIGINAL SURVEY	SURVEYED	DATE
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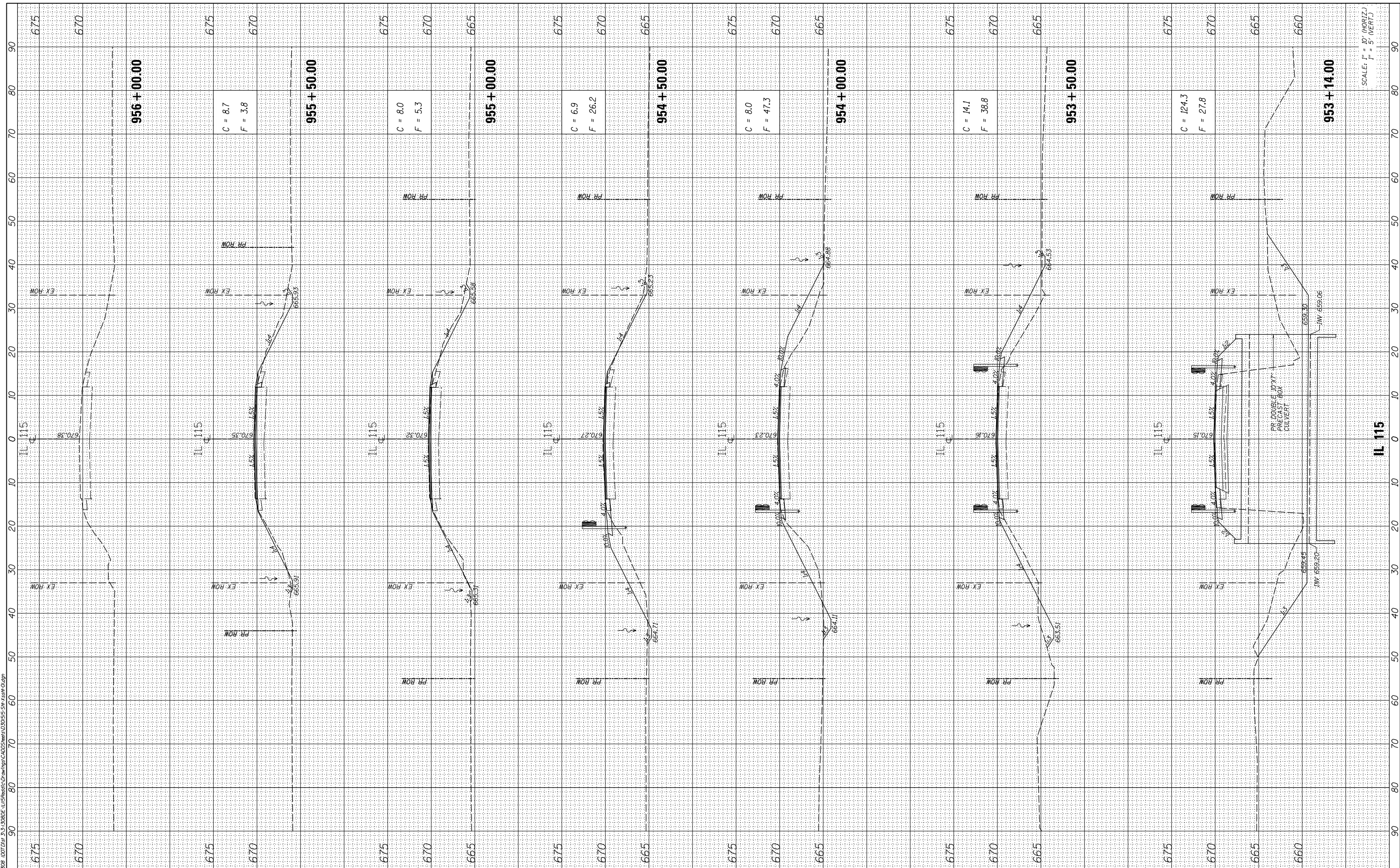
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PLOT DATE = 7/29/2015	DATE -	3/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 10' SHEET OF SHEETS STA. 953+14.00 TO STA. 956+00.00

**IL-115 SN 046-2017  
CROSS SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR & BR-1	KANKAKEE	55	53
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B74	



SCALE: 1" = 10' (HORIZ.)  
1" = 5' (VERT.)

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

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

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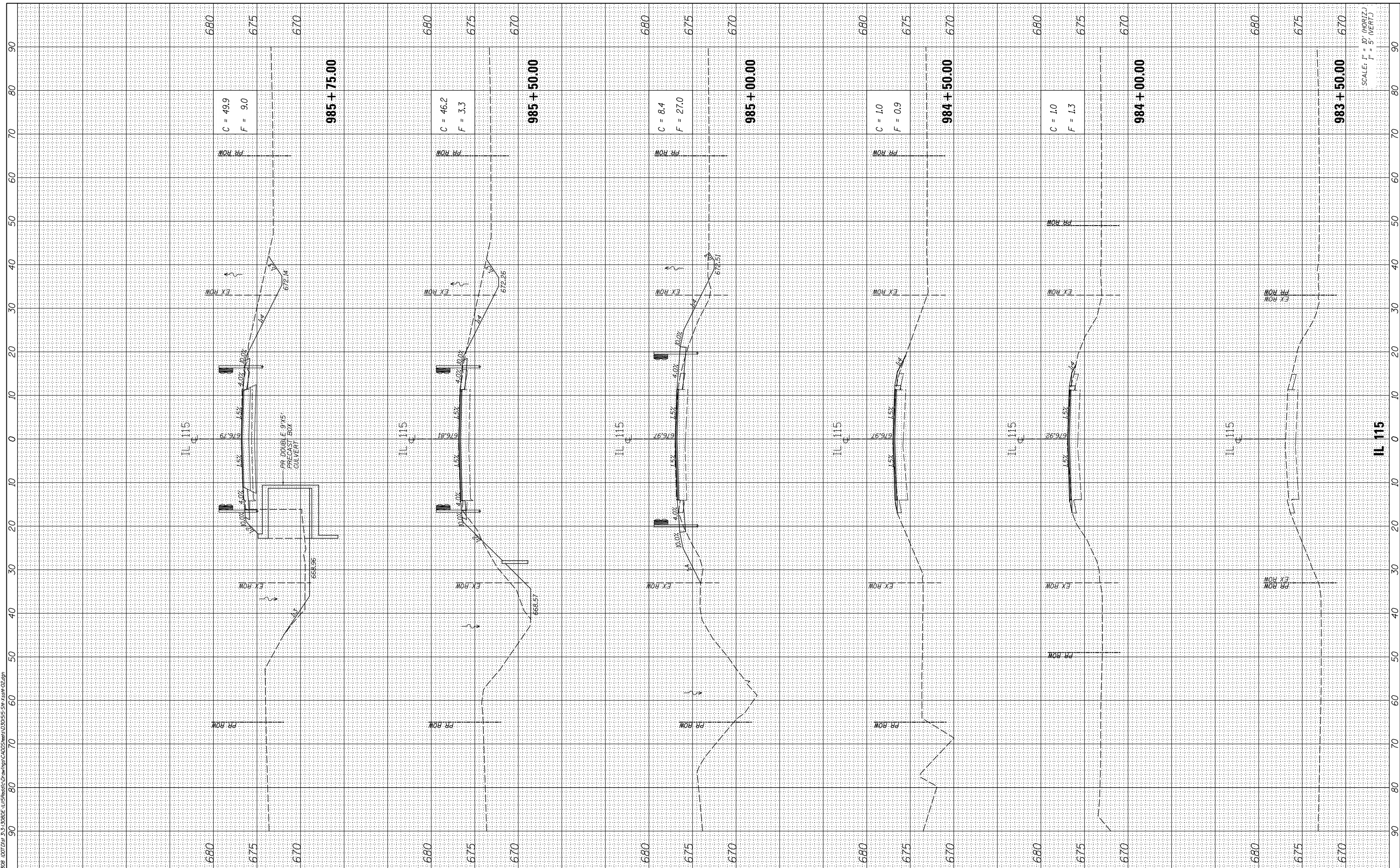
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PLOT DATE = 7/29/2015	CHECKED - MMO	REVISED -
	DATE - 3/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-115 SN 046-0066  
CROSS SECTIONS**

SCALE: 1" = 10' SHEET OF SHEETS STA. 983+50.00 TO STA. 985+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
796	104 BR & BR-1	KANKAKEE	55	54
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B74	



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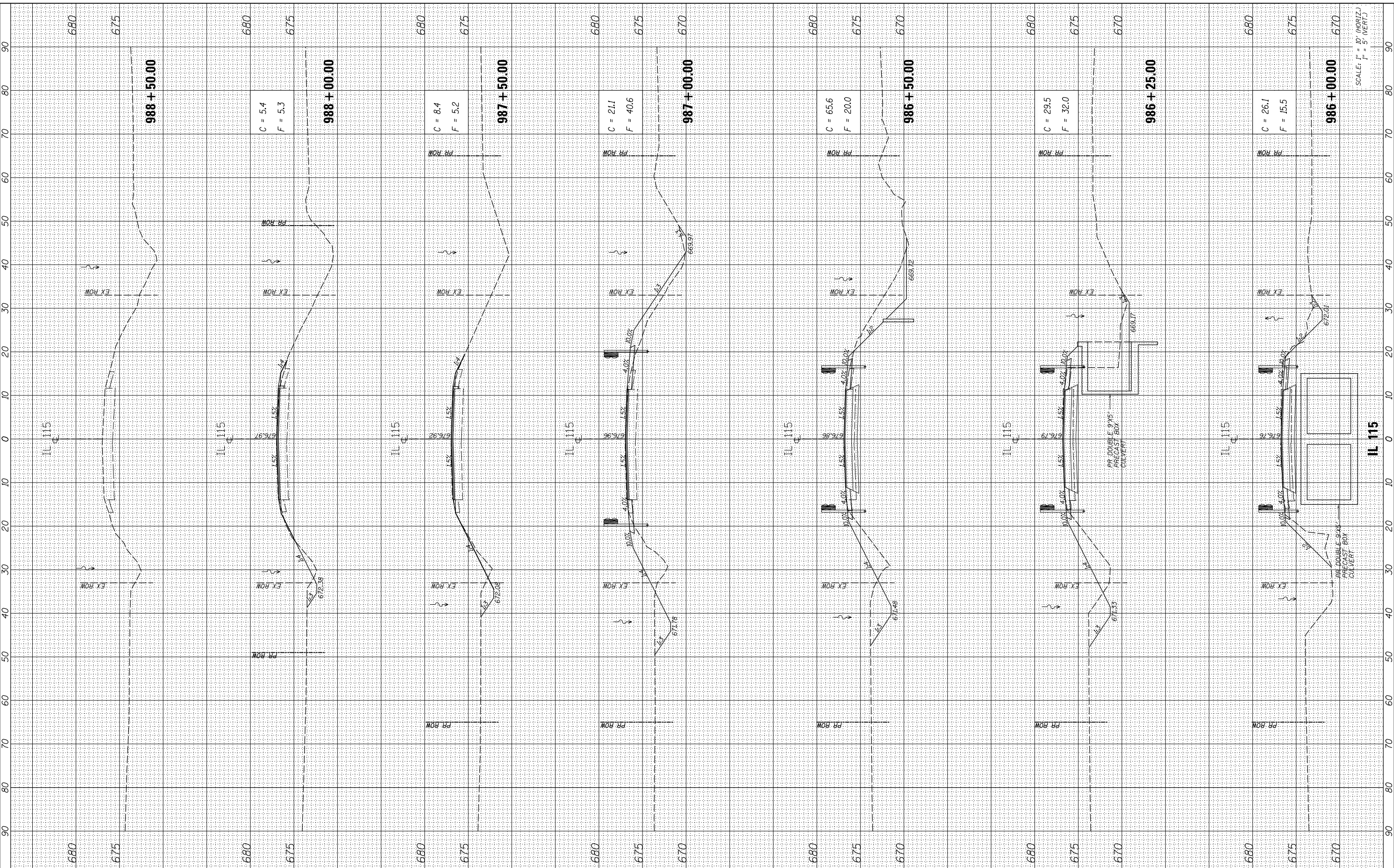
BY	DATE

BY	DATE

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NOTE BOOK \_\_\_\_\_  
AREAS CHECKED \_\_\_\_\_



SCALE: 1" = 10' (HORIZ.)  
1" = 5' (VERT.)



USER NAME = hferrera	DESIGNED - MMO	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - BRL	REVISED -
PLOT DATE = 7/29/2015	CHECKED - MMO	REVISED -
	DATE - 3/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL-115 SN 046-0066  
CROSS SECTIONS**

SCALE: 1" = 10' SHEET OF SHEETS STA. 986+00.00 TO STA. 988+50.00

F.A.P. RTE. 796	SECTION 104 BR & BR-1	COUNTY KANKAKEE	TOTAL SHEETS 55	SHEET NO. 55
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66B74	