11-08-2013 LETTING ITEM 032

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102BR	KANKAKEE	53	1
	ILLINOIS	CONTRACT NO. 66B66		

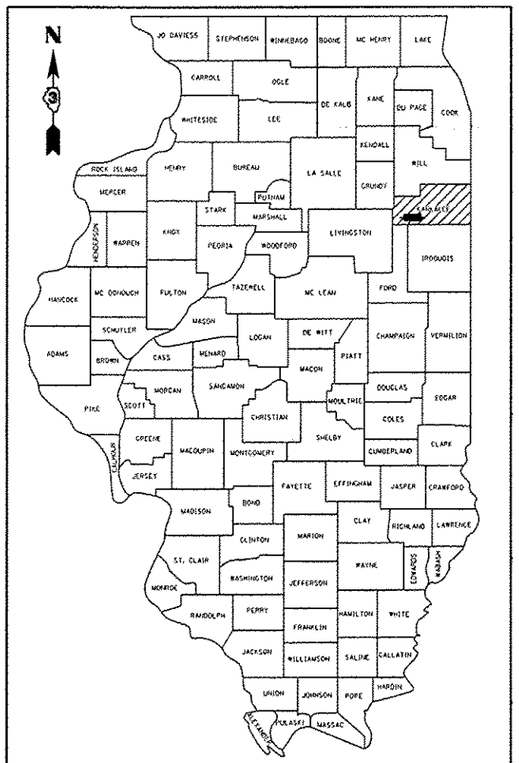
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAS ROUTE 1323 (IL 115)
SECTION 102 BR
PROJECT : ACRS-1323(115)
SUPERSTRUCTURE REPLACEMENT
KANKAKEE COUNTY

C-93-015-13

P-93-044-04
D-93-016-13



LOCATION OF SECTION INDICATED THUS:-

MAJOR COLLECTOR (RURAL)
2011 ADT = 1750

PV = 96% SU = 2% MU = 2%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

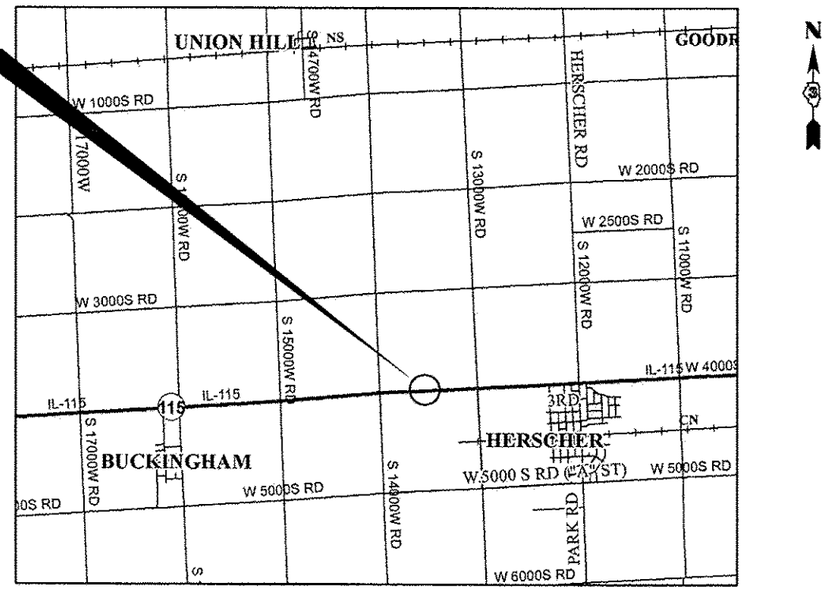
SUBMITTED August 13 20 13
Paul A. Loebach
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
October 4 20 13
John D. Baranzelli P.E. by auth
ENGINEER OF DESIGN AND ENVIRONMENT
October 4 20 13
Omer Osman, P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

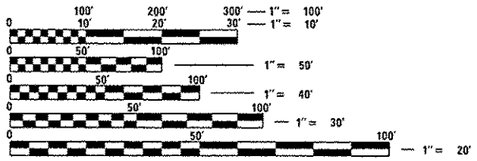
FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

SN 046-0109
REMOVE AND REPLACE
EXISTING SUPERSTRUCTURE



GROSS LENGTH = 505 FT. = 0.10 MILE
NET LENGTH = 505 FT. = 0.10 MILE

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



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: CRAIG REED, P.E.
UNIT CHIEF: BRAD DUNCAN, P.E.
DISTRICT 3 NO. (815) 434-6131

CONTRACT NO. 66B66

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

BLR 21-9	TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APP OF T.C.D. RURAL LOCAL HIGHWAY (2-LANE 2-WAY RURAL TRAF.) (ROAD CLOSED TO THRU TRAFFIC)
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-09	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
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
701006-04	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-02	TRAFFIC CONTROL DEVICES
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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 SEEDED 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 SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

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

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

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

COMMONWEALTH EDISON
AT & T

COMMITMENTS

WIDEN FIELD ENTRANCES AT STA. 605+44 RT & STA. 605+55 LT TO MAXIMUM POLICY AS SHOWN ON THE PLANS

INSTALL SILT FENCE ALONG WETLAND AREAS TO PREVENT FURTHER IMPACTS AS SHOWN ON THE PLANS.

COMMITMENT WAS MADE REGARDING PROPER DISPOSAL OF THE ASBESTOS WEARING PADS AS DETAILED IN THE SPECIAL PROVISION.

THE RESIDENT ENGINEER SHALL CONTACT A REPRESENTATIVE OF THE KANKAKEE COUNTY HIGHWAY DEPARTMENT FOR A BEFORE AND AFTER INSPECTION OF THE COUNTY HIGHWAY ROADS TO BE USED FOR THE DETOUR SHOWN IN THE PLANS.

NO EARTH/EMBANKMENT MATERIAL MAY BE REMOVED OFFSITE. THE EARTH SOIL MAY BE MOVED AS LONG AS IT STAYS ON THE SITE. IF CONSTRUCTION OPERATIONS REQUIRE THAT EARTH MATERIAL TO BE REMOVED OFFSITE THE DISTRICT 3 ENVIRONMENTAL UNIT SHALL BE CONTACTED PRIOR TO ANY EARTH REMOVAL OPERATIONS. ANY EARTH REMOVAL OPERATIONS AT THIS SITE, AS DIRECTED BY THE ENGINEER, WILL REQUIRE OBTAINING AN ENVIRONMENTAL FIRM TO MONITOR THE OFFSITE REMOVAL AT THE EXPENSE OF THE CONTRACTOR.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: 8-12-13

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

Wayne L. Phillips
DISTRICT MATERIALS ENGINEER

_____
DISTRICT OPERATIONS ENGINEER

FILE NAME = c:\pw_work\pwidot\duncanbd\dms68355\EP64404-sht-cover.dgn	USER NAME = duncanbd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					1323	102BR	KANKAKEE	53	2
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 66B66		
	PLOT DATE = 8/6/2013	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FEDERAL 20% STATE ROADWAY 0004	CONSTRUCTION CODE 80% FEDERAL 20% STATE BRIDGE 0011 SN 046-0109
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	12	12	
	20101000	TEMPORARY FENCE	FOOT	57	57	
	20200100	EARTH EXCAVATION	CU YD	497	497	
	20400800	FURNISHED EXCAVATION	CU YD	589	589	
*	25000300	SEEDING, CLASS 3	ACRE	0.65	0.65	
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	58	58	
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	58	58	
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	58	58	
*	25100630	EROSION CONTROL BLANKET	SQ YD	3157	3157	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	65	65	
	28000305	TEMPORARY DITCH CHECKS	FOOT	42	42	
	28000400	PERIMETER EROSION BARRIER	FOOT	971	971	
	28100107	STONE RIPRAP, CLASS A4	SQ YD	665		665
	28200200	FILTER FABRIC	SQ YD	665		665

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* SPECIALTY ITEMS

Rev.

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	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	3
		CONTRACT NO. 66866		
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FEDERAL 20% STATE ROADWAY 0004	CONSTRUCTION CODE 80% FEDERAL 20% STATE BRIDGE 0011 SN 046-0109
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	99	99	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	40	40	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	80	80	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	34	34	
44000100	PAVEMENT REMOVAL	SQ YD	200	200	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	55	55	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	486	486	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	3.7		3.7
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4	
50105220	PIPE CULVERT REMOVAL	FOOT	42	42	
50200100	STRUCTURE EXCAVATION	CU YD	48		48
50300225	CONCRETE STRUCTURES	CU YD	19.8		19.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	95		95

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	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 2 OF 5 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	4
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		

				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BRIDGE
				0004	0011
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		SN 046-0109
50300260	BRIDGE DECK GROOVING	SQ YD	495		495
50300300	PROTECTIVE COAT	SQ YD	528		528
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2827		2827
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	29270		29270
50901050	STEEL RAILING, TYPE SM	FOOT	237		237
51500100	NAME PLATES	EACH	1		1
54213450	END SECTIONS 15"	EACH	4	4	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	104	104	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	28		28
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75	75	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	458	458	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8	

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* SPECIALTY ITEMS

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	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 3 OF 5 SHEETS | STA. | TO STA.

Rev.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	5
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		

				CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BRIDGE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0011
					SN 046-0109
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	202	202	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7	7	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2020	2020	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	260	260	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	6	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6	
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	646	646	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	957	957	
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	315		315

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* SPECIALTY ITEMS

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	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 4 OF 5 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	6
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FEDERAL 20% STATE ROADWAY 0004	CONSTRUCTION CODE: 80% FEDERAL 20% STATE BRIDGE 0011 SN 046-0109
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	52		52
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	56		56
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	129		129
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	4.5		4.5
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	115		115
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42.5	42.5	

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Rev.

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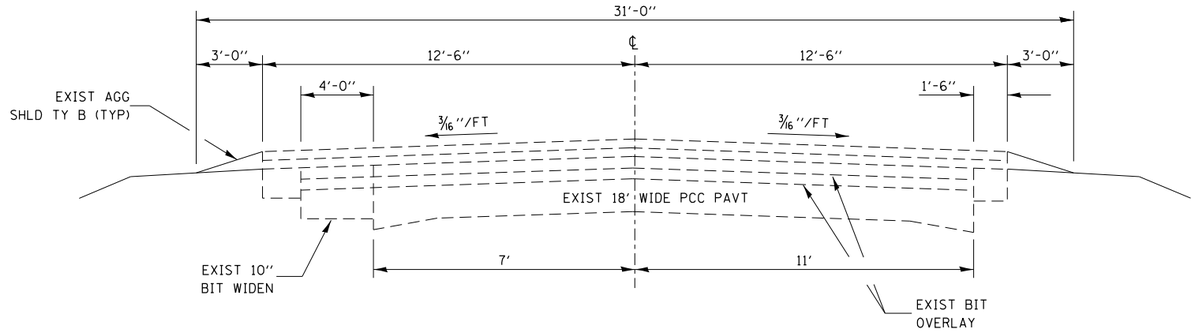
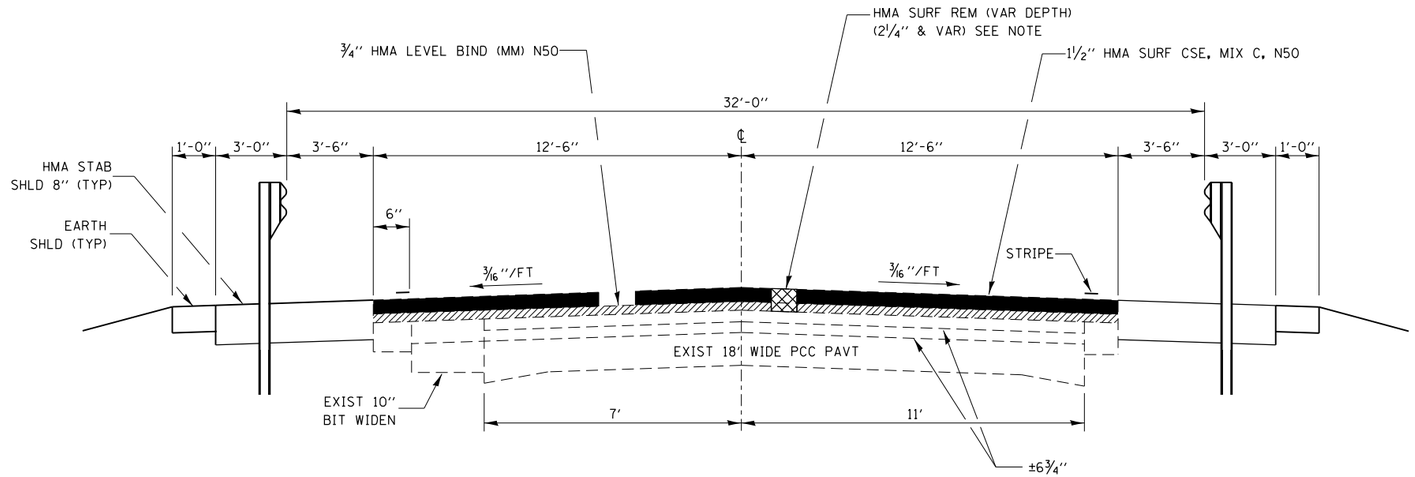
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -					CONTRACT NO. 66B66		
	PLOT DATE = 8/12/2013	CHECKED -	REVISED -		SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -							



EXISTING TYPICAL SECTION

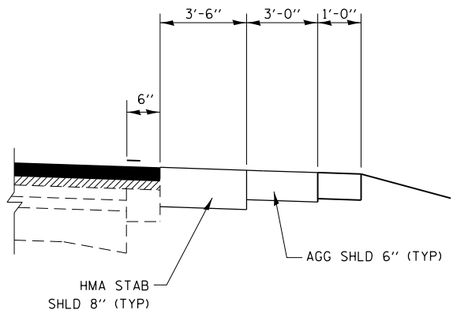
MIXTURE TABLE

	HMA SURFACE	HMA LEVEL BINDER	HMA SHOULDERS 8"
PG GRADE	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	2.0% @ N30
MIXTURE COMPOSITION	IL 9.5	IL 9.5	OTHER
FRICTION AGGREGATE	MIXTURE C		
DENSITY TEST METHOD	CORES	SATISFACTION OF ENGINEER	CORES



PROPOSED TYPICAL SECTION

NOTE: IL 115 SHALL BE MILLED TO ALLOW FOR A MINIMUM OF 2 1/4" OF HMA RESURFACING. THE MILLING IS VARIABLE DUE TO THE FACT THAT THERE MAY BE LOCATIONS THAT REQUIRE LESS THAN 2 1/4" MILLING TO MEET THE NECESSARY RESURFACING THICKNESS.



AT LOCATIONS WITHOUT GUARDRAIL

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	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY TYPICAL SECTIONS
SN 046-0109

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	8
		CONTRACT NO. 66B66		
	ILLINOIS	FED. AID PROJECT		

EARTHWORK

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE(+) OR SHORTAGE(-)
STA. TO STA.	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
600+00 - 603+00	372.8	280	336.9	-57
603+00 - 606+00	124.2	93	625.1	-532
TOTAL	497	373	962	-589

PAVEMENT

LOCATION	HMA SURF REMOVAL VAR DEPTH	BIT MAT PR CT SPL	LEVEL BIND (MM) N50	HMA SURF CSE MIX C N50	BRIDGE APPR PAVT CONN FLEXIBLE
	SQ YD	POUND	TON	TON	SQ YD
600+80 - 602+27.75	410	276.8	17.2	34.4	
602+27.75 - 602+33.75					17
602+33.75 - 603+82.25	BRIDGE OMISSION				
603+82.25 - 603+88.25					17
603+88.25 - 605+85	547	369.2	23.0	45.9	
TOTAL	957	646	40	80	34

SHOULDER

LOCATION	HMA SHOULDER 8''	AGG SHOULDER 6''
	SQ YD	SQ YD
600+80 - 601+06.4 RT		9
600+80 - 601+44.8 LT		22
604+71.4 - 605+21 RT		17
605+09.8 - 605+31 LT		7
600+80 - 601+06.4 RT	10	
600+80 - 601+44.8 LT	25	
601+06.4 - 602+48.75 RT	108	
601+44.8 - 602+48.75 LT	80	
603+67.25 - 604+71.4 RT	81	
603+67.25 - 605+09.8 LT	109	
604+71.4 - 605+85 RT	44	
608+09.8 - 605+85 LT	29	
TOTAL	486	55

ROW MARKERS

LOCATION	OFFSET	FURN & ERECT ROW MARKERS
		EACH
600+00	35' LT	1
600+00	34' RT	1
601+00	60' LT	1
601+00	60' RT	1
605+00	60' LT	1
605+00	60' RT	1
606+00	35' LT	1
606+00	34' RT	1
TOTAL		8

PAVEMENT MARKING

LOCATION	PAINT LINE 4'' 2 APPLICATIONS	PAINT LINE 6'' 2 APPLICATIONS	RAISED REFL PAVT MARK
	SQ YD	SQ YD	EACH
600+80 - 605+85	2020	260	6
TOTAL	2020	260	6

GUARDRAIL

LOCATION	SIDE	SPBGR TYPE A 6 FT POSTS	TRAF BARR TERM TYPE 6A	TRAF BARR TERM TY 1 SPEC, FLR	GUARDRAIL MARKERS TYPE A	TERM MARK DIRECT APPLIED	GUARDRAIL REM
		FOOT	EACH	EACH	EACH	EACH	FOOT
601+16.5 - 602+48.75	RT	37.5	1	1	2	1	127
601+55 - 602+48.75	LT		1	1	2	1	102
603+62.25 - 604+61	RT		1	1	2	1	102
603+62.25 - 605+00	LT	37.5	1	1	2	1	127
TOTAL		75	4	4	8	4	458

DRAINAGE

LOCATION	PIPE CULV CL D, TY 1 15''	END SECTION 15''	PIPE CULVERT REMOVAL	CONCRETE HEADWALL REMOVAL
	FOOT	EACH	FOOT	EACH
605+45 RT	52	2	23	2
605+55 LT	52	2	19	2
TOTAL	104	4	42	4

SEEDING

LOCATION	SIDE	SEEDING CLASS 3	EROSION CONTROL BLANKET	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	TEMP EROS CONT SEEDING
		ACRE	SQ YD	POUND	POUND	POUND	POUND
600+00 - 602+50	LT	0.17	823	15	15	15	17
603+50 - 606+00	LT	0.16	782	14	14	14	16
600+00 - 602+50	RT	0.15	729	14	14	14	15
603+50 - 606+00	RT	0.17	823	15	15	15	17
TOTAL		0.65	3157	58	58	58	65

TEMPORARY EROSION CONTROL SYSTEMS

STATION	LOCATION	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
		FOOT	FOOT
602+30	LT	7	
602+30	RT	7	
603+70	LT	7	
603+70	RT	7	
605+90	LT	7	
605+90	RT	7	
600+20 - 603+00	LT		289
600+27 - 602+80	RT		277
603+18 - 605+16	LT		198
603+18 - 605+24	RT		207
TOTALS		42	971

TEMPORARY EROSION CONTROL SEEDING QUANTITY (NOT SHOWN) BASED ON FINAL SEEDING

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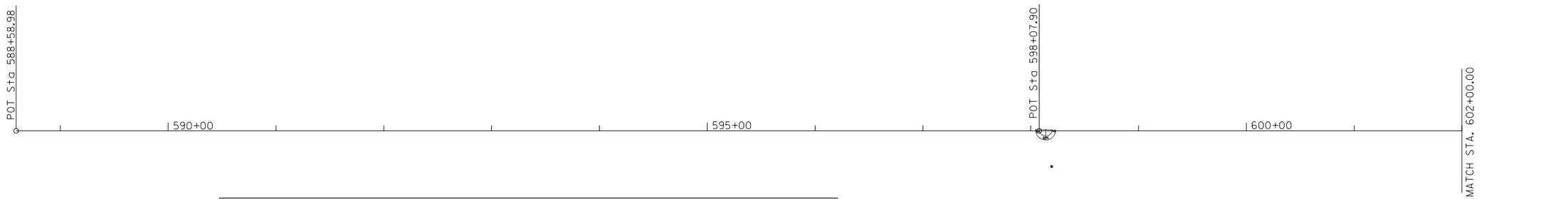
	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES

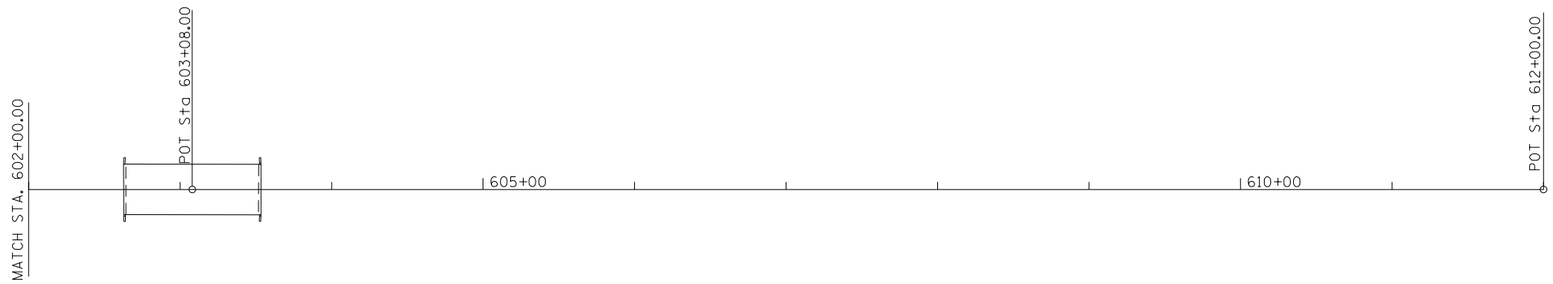
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	9
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			



HORIZONTAL CONTROL POINTS				
POINT	NORTHING	EASTING	STATION EXISTING ALIGNMENT	DESCRIPTION
POINT 10	1598866.8430	1042892.9410	588+58.98	POT
CP 115505	1598819.8270	1041964.0670	597+88.80	CONTROL POINT
POINT 12	1598840.2994	1041944.3902	598+07.90	POT
POINT 13	1598826.3104	1041444.4859	603+08	POT
POINT 14	1598801.3591	1040552.8349	612+00	POT

0 50 100



BENCHMARKS						
NO.	NORTHING	EASTING	STATION EXISTING ALIGNMENT	OFFSET EXISTING ALIGNMENT	ELEVATION	DESCRIPTION
CP 115505	1598819.8270	1041964.0670	597+88.80	21.02' LT	646.96	80d SPIKE IN FIELD ENTRANCE (S.E. QUAD)
BM 1	1598802.0130	1041912.2570	598+41.09	37.37' LT	647.05	CHIS SQUARE TOP NORTH EDGE CONC GRAIN BIN FOUNDATION
BM 2	1598867.7940	1041705.2680	600+46.16	34.17' RT	645.43	RAILROAD SPIKE IN POWER POLE
BM 3	1598844.2260	1041488.3320	602+63.67	16.68' RT	648.03	CHIS SQUARE ON TOP NE WINGWALL
			604+43	RT	645.78	RAILROAD SPIKE IN POWER POLE

0 50 100

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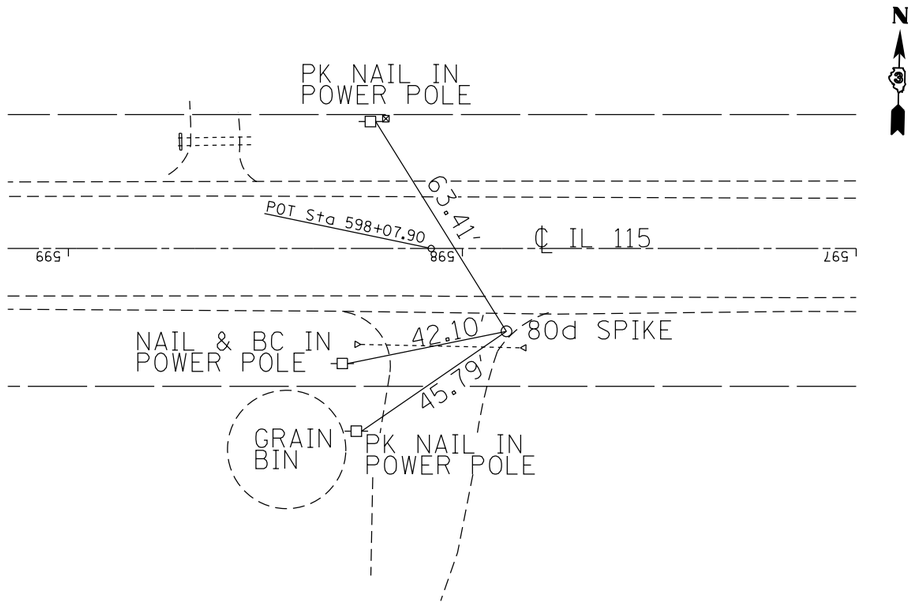
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

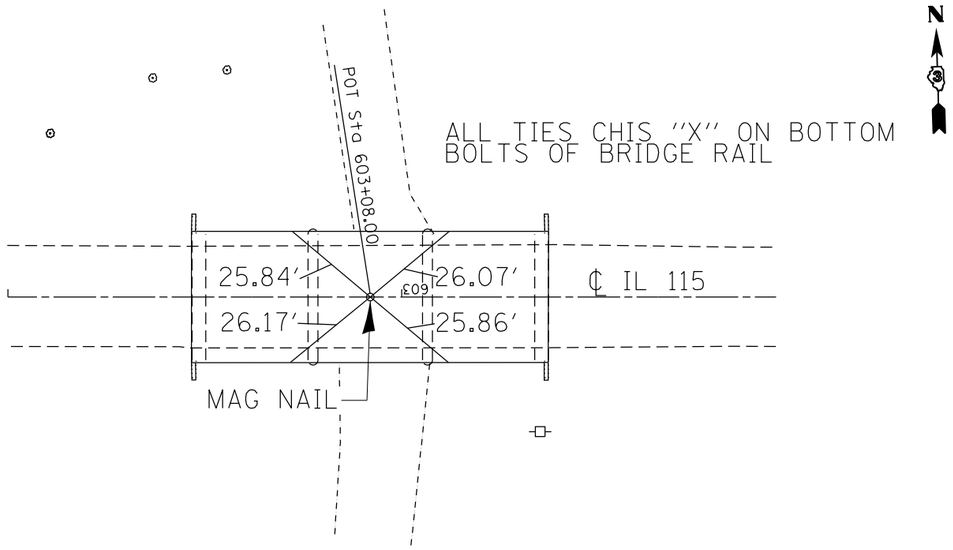
ALIGNMENT, TIES & BENCHMARKS

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

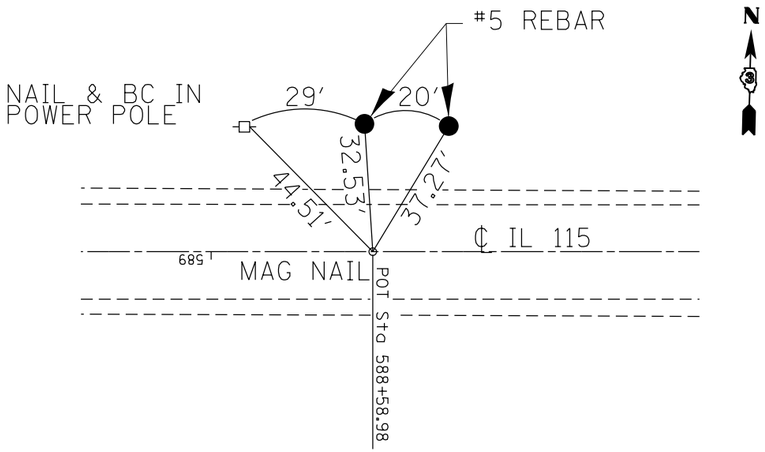
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	10
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		



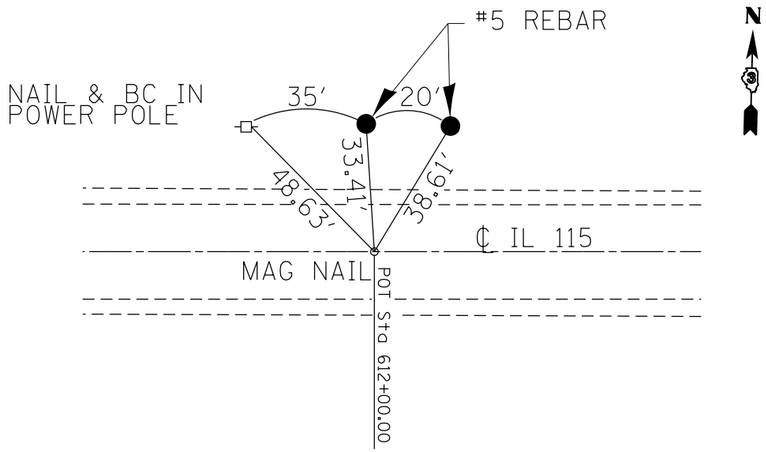
115505 STA. 597 + 88.80, 21.02' LT



SN 048–0109 STA. 603 + 08.00



POT STA. 588 + 58.98



POT STA. 612 + 00.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

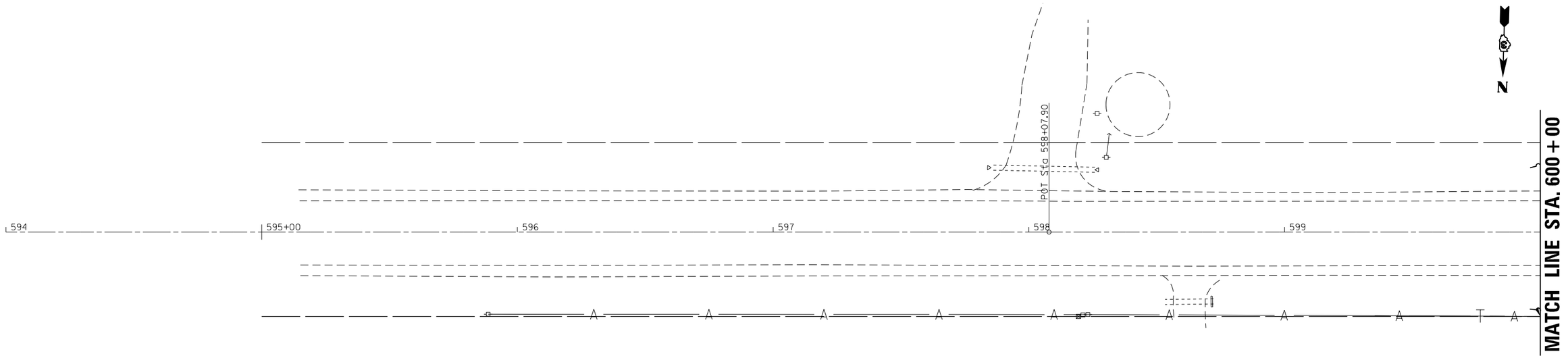
ALIGNMENT, TIES & BENCHMARKS

SCALE: NTS | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	11
		CONTRACT NO. 66B66		
	ILLINOIS	FED. AID PROJECT		

PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		RT. OF WAY CHECKED
		CADD FILE NAME
		NOTE BOOK
		NO.



PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		CROSS SECTIONS CHECKED
		BM. NOTED
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		NOTE BOOK
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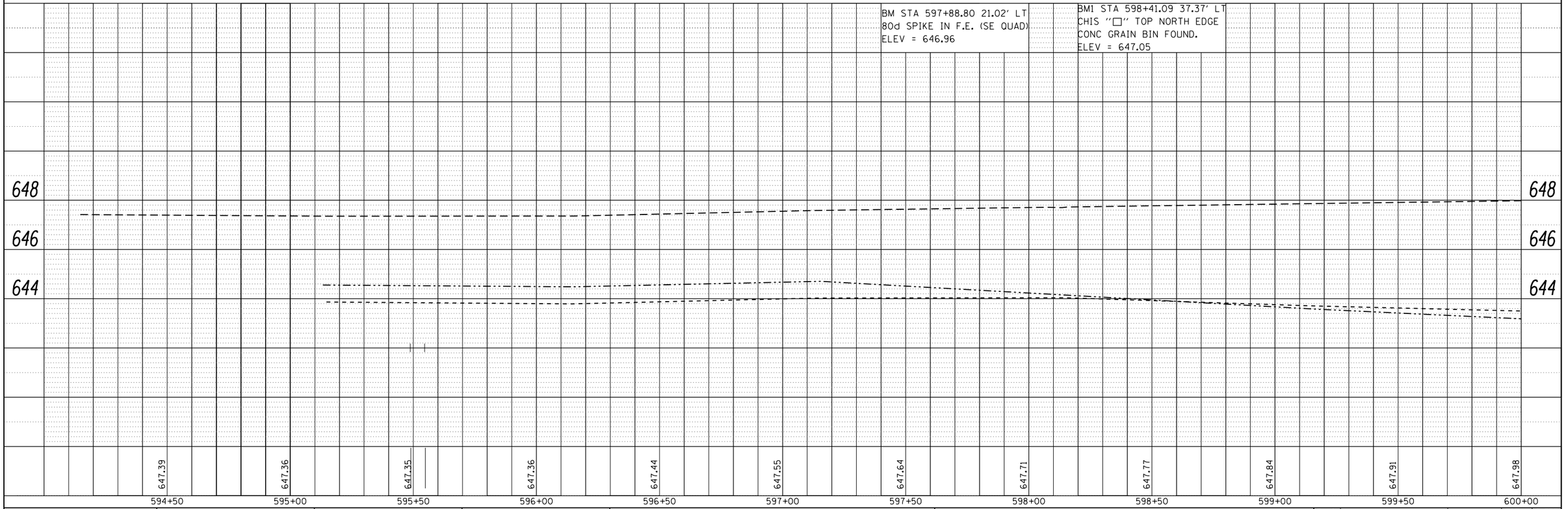

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 594+00 | TO STA. 600+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	12

CONTRACT NO. 66B66

ILLINOIS FED. AID PROJECT

STA. 601±54 LT - STA. 602±49 LT
1 - TBT TY 6A
1 - TBT TY 1 (FLR) SPL

+77, 50′ LT
PER EROS BAR
& TEMP FENCE

+70, 60′ LT
PER EROS BAR
& TEMP FENCE

WETLAND

+00, 50′ LT
PER EROS BAR
& TEMP FENCE

PAUL SAFFER
14-30-200-001

STA. 603±67 LT - STA. 605±00 LT
37.5′ - SPBGR TY A
1 - TBT TY 6A
1 - TBT TY 1 (FLR) SPL

STA. 605+55, 34.7′ LT
15″ X 52′ CL D PIPE CULVERT
2 - END SECTIONS
STA. 605±83, 29.2′ LT US INV= 644.66
STA. 605±32, 39.3′ LT DS INV= 643.64

PROP ROW
STA 601+00, 60′

PROP ROW
STA 600+00, 35′

PROP ROW
STA 605+00, 60′

PROP ROW
STA 606+00, 35′

IMPROVEMENT ENDS
STA 605+85

MATCH LINE STA. 600+00

MATCH LINE STA. 606+00

HMA SHLDS 8″ (TYP.)

35′ EXIST ROW

35′ EXIST ROW

IMPROVEMENT BEGINS
STA 600+80

3.5′

3′

3′

24′

45° X52′ CMP

FE

+55

600+00

601

25′

IL 115

602

POT Sta 603+09.00

603

604

605+00

FE

+45

BRIDGE APPROACH PAVT
CONNECTOR (FLEX) (TYP.)

EARTH SHLDS (TYP.)

33′ EXIST ROW

33′ EXIST ROW

3′ - AGG SHLDS
TY B 6″ (TYP.)

45° X52′ CMP

PROP ROW
STA 606+00, 33′

PROP ROW
STA 600+00, 33′

PROP ROW
STA 605+00, 60′

PROP ROW
STA 601+00, 60′

WAYNE RAMSEY
14-19-300-002

+96, 45′ RT
PER EROS BAR
& TEMP FENCE

+80, 60′ RT
PER EROS BAR
& TEMP FENCE

WETLAND

STA. 601±16 RT - STA. 602±49 RT
37.5′ - SPBGR TY A
1 - TBT TY 6A
1 - TBT TY 1 (FLR) SPL

STA. 603±67 RT - STA. 604±62 RT
1 - TBT TY 6A
1 - TBT TY 1 (FLR) SPL

STA. 605+45, 35.1′ RT
15″ X 52′ CL D PIPE CULVERT
2 - END SECTIONS
STA. 605±73, 31.2′ RT US INV= 644.82
STA. 605±21, 38.4′ RT DS INV= 643.42

0 20 40 60
SCALE IN FEET

N

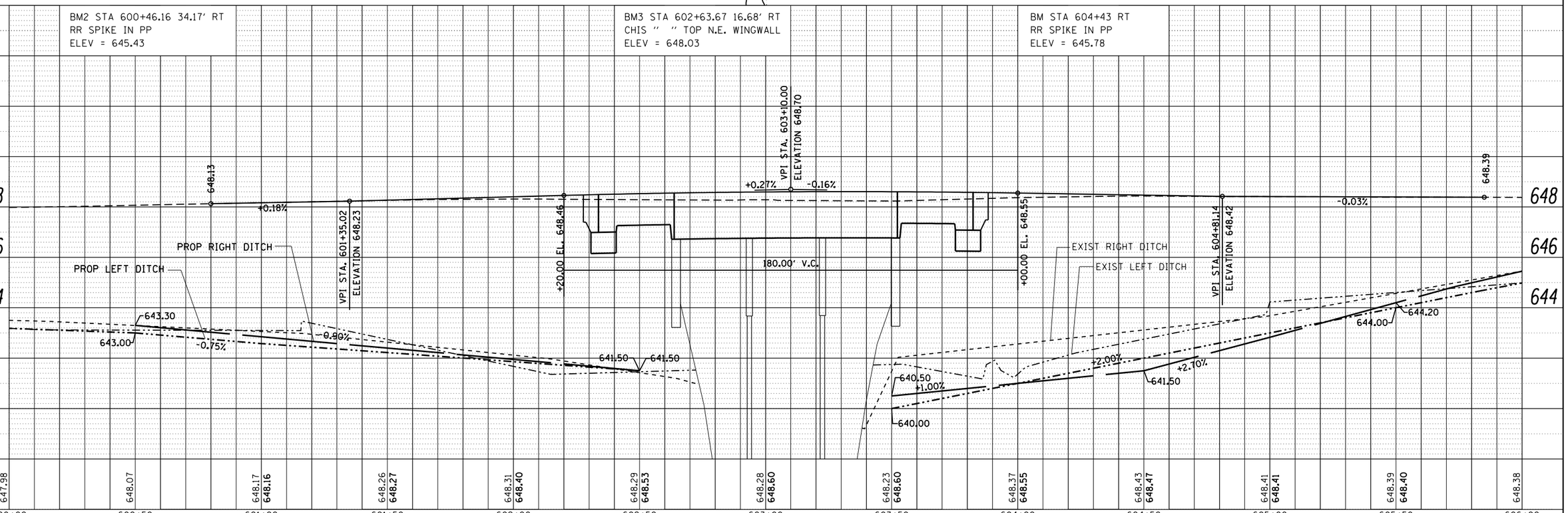
PLAN
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

BM2 STA 600+46.16 34.17′ RT
RR SPIKE IN PP
ELEV = 645.43

BM3 STA 602+63.67 16.68′ RT
CHIS ″ ″ TOP N.E. WINGWALL
ELEV = 648.03

BM STA 604+43 RT
RR SPIKE IN PP
ELEV = 645.78

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

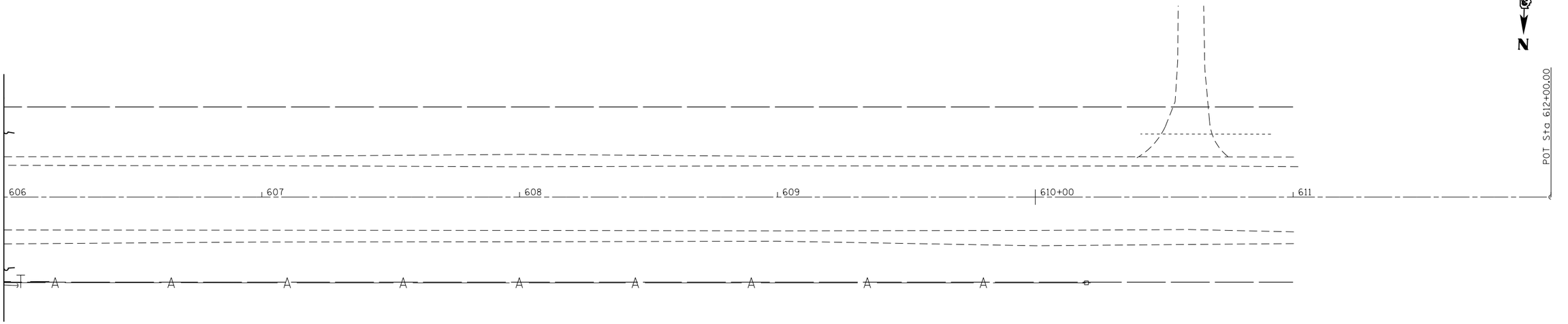
SCALE: 1″ = 20′ | SHEET NO. 2 OF 3 SHEETS | STA. 600+00 TO STA. 606+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	13
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

PLAN

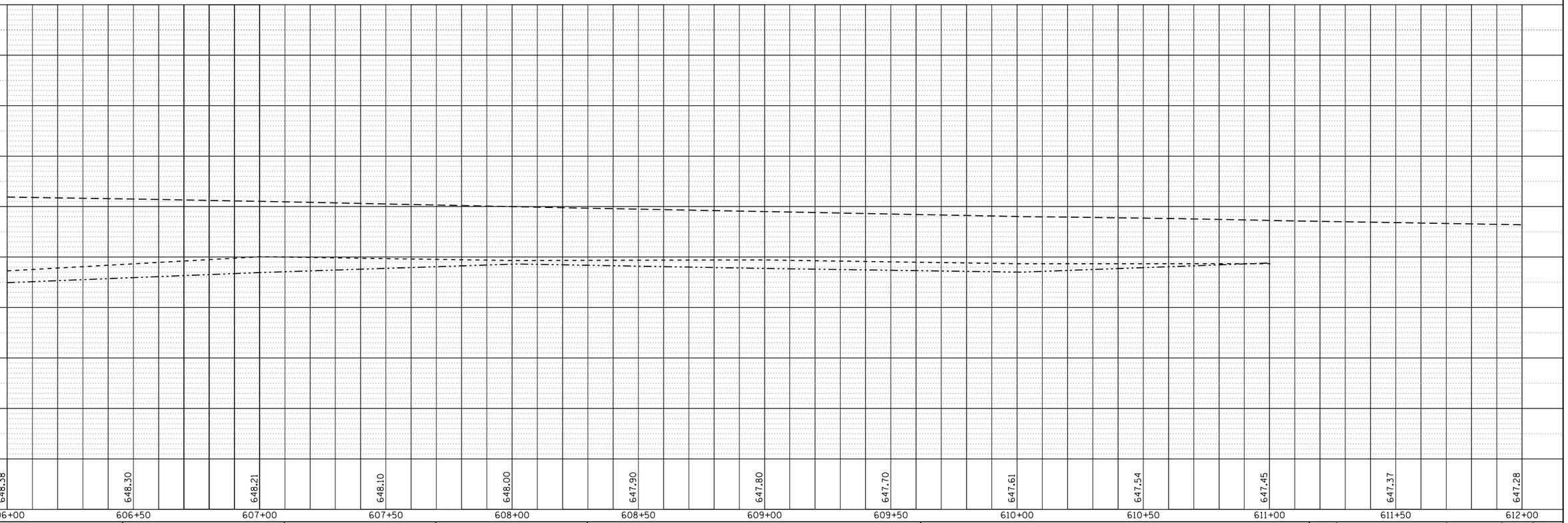
BY	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

MATCH LINE STA. 606+00



PROFILE

BY	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
BM. NOTED	
STRUCTURE NO'S/NS CHKD	
NOTE BOOK	
NO.	



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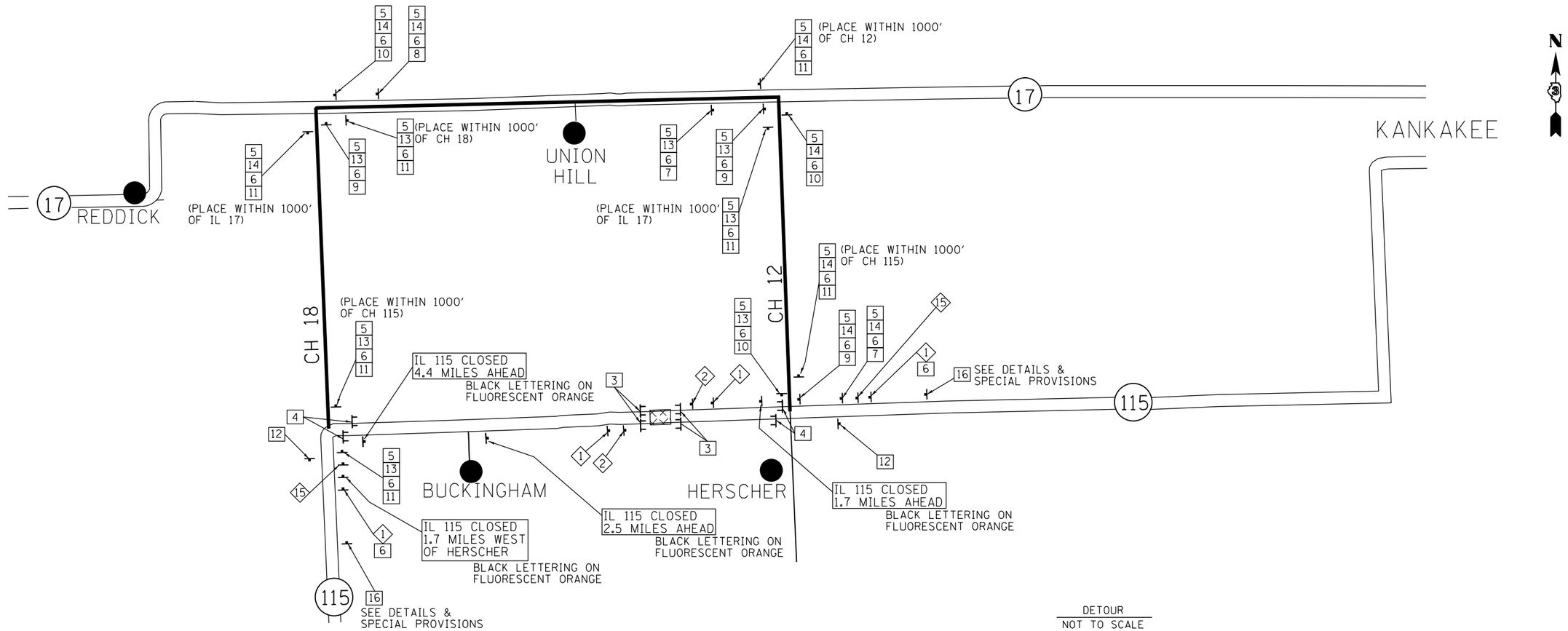
	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 606+00 | TO STA. 612+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	14
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		



DETOUR
NOT TO SCALE

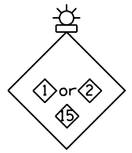
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED.
3. TYPE III BARRICADES AND ROAD CLOSURE SIGNS SHALL BE POSITIONED AS SHOWN, IN ACCORDANCE WITH HIGHWAY STANDARD 701901 AND AS DIRECTED BY THE ENGINEER.
4. TYPE A LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON EACH SIGN IN ADVANCE OF THE WORK DURING HOURS OF DARKNESS.
5. ALL WARNING SIGNS SHALL BE A MINIMUM OF 48" x 48" AND HAVE A BLACK LEGEND AND BORDER ON A FLUORESCENT ORANGE REFLECTORIZED BACKGROUND.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AT ALL TIMES.
7. ALL TYPE III BARRICADES UTILIZED FOR ROAD CLOSURES SHALL HAVE A LOW INTENSITY FLASHING LIGHT MOUNTED ON TOP OF EACH BARRICADE.
8. EXACT LOCATION OF ALL WARNING SIGNS AND BARRICADES SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
9. COVER CONFLICTING SIGNS. EXISTING DIRECTIONAL ARROWS MUST BE COVERED. THE CONTRACTOR SHALL NOT DRILL INTO THE FACE OF ANY EXISTING DIRECTIONAL/CONFLICTING SIGNS TO BE COVERED.

1. W20-3(O)-48 (ROAD CLOSED AHEAD)
2. W20-3(O)-48 (ROAD CLOSED 500 FT)
3. TYPE III BARRICADES W/ R-11-2-4830 (ROAD CLOSED) SIGN AND TYPE A LOW INTENSITY FLASHING LIGHTS
4. TYPE III BARRICADES W/ R-11-4-4830 (ROAD CLOSED TO THRU TRAFFIC) SIGN AND TYPE A LOW INTENSITY FLASHING LIGHTS
5. M4-8(O) (DETOUR) BLACK LETTERS ON FLUORESCENT ORANGE BACKGROUND
6. M1-4 (IL 115)
7. M5-1(R) (ADVANCED RIGHT TURN ARROW) BLACK LETTERS/FLUORESCENT ORANGE
8. M5-1(L) (ADVANCED LEFT TURN ARROW) BLACK LETTERS/FLUORESCENT ORANGE
9. M6-1(R) (RIGHT TURN ARROW) BLACK LETTERS/FLUORESCENT ORANGE
10. M6-1(L) (LEFT TURN ARROW) BLACK LETTERS/FLUORESCENT ORANGE
11. M6-3 (STRAIGHT ARROW) BLACK LETTERS/FLUORESCENT ORANGE
12. M4-8(a) (END DETOUR) BLACK LETTERS/FLUORESCENT ORANGE
13. M3-2 (EAST)
14. M3-4 (WEST)
15. W20-3(O)-48 (DETOUR AHEAD)
16. TEMPORARY INFORMATION SIGN

DETOUR ROUTE

WORK ZONE

TYPE A LOW INTENSITY FLASHING LIGHT



48" x 48" FLUORESCENT ORANGE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

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

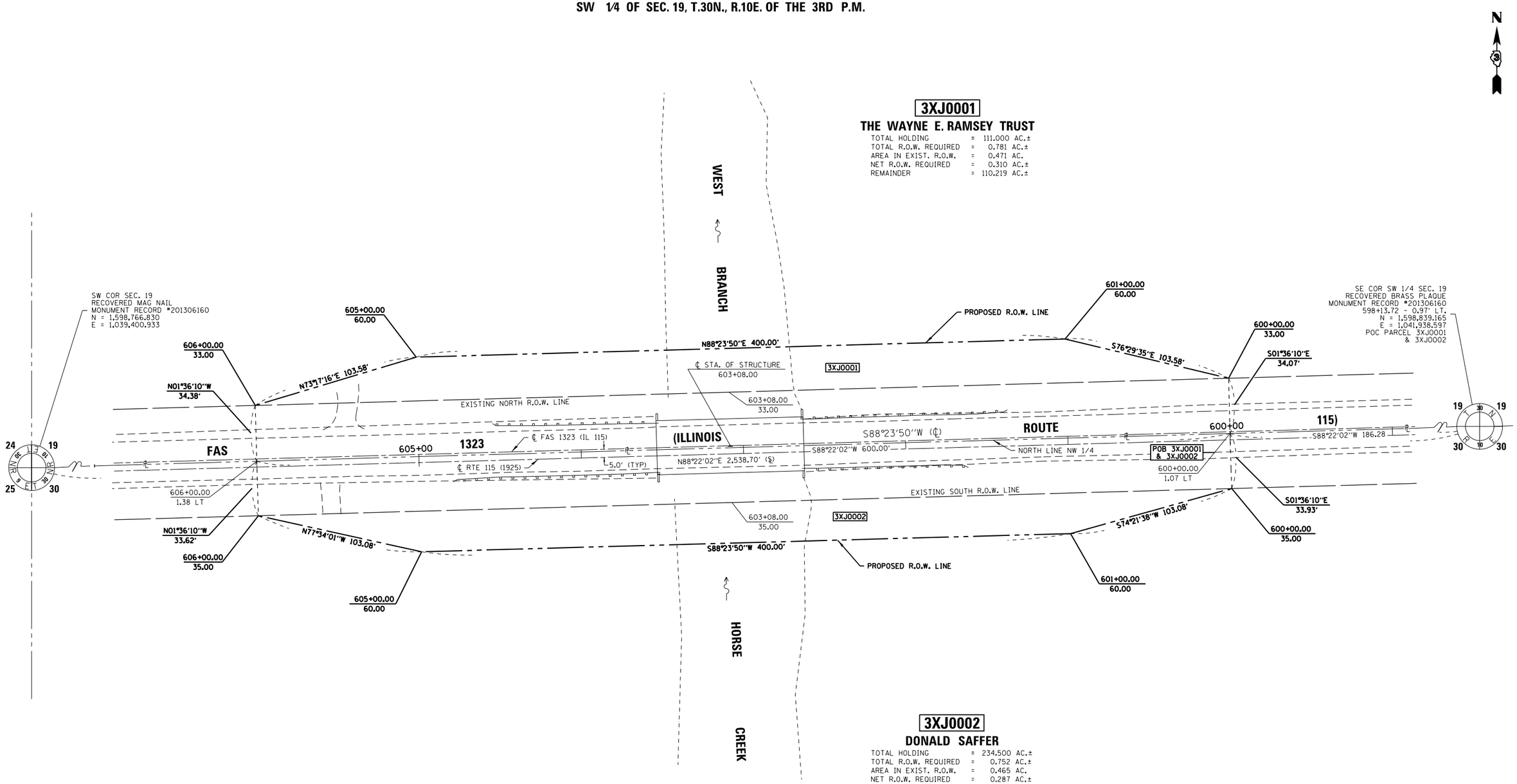
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	15

CONTRACT NO. 66B66

ILLINOIS FED. AID PROJECT

RECORDED AS DOCUMENT NO. _____

SW 1/4 OF SEC. 19, T.30N., R.10E. OF THE 3RD P.M.



I DARRELL A. POUNDSTONE, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED FAS 1323 (ILLINOIS ROUTE 115) WAS MADE BY RENWICK & ASSOCIATES, INC. UNDER MY DIRECTION, AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DATE:

ILLINOIS PROFESSIONAL LAND SURVEYOR
NO. 3485

11-30-2014
EXPIRATION DATE

SURVEY BOOK NO. _____

NOTES:

1. ALL BEARINGS AND DISTANCES (GRID) ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE NAD 83 (2007 ADJ).
2. GRID DISTANCE (AS LABELED) x 1.00004704 = GROUND DISTANCE

30' 0' 30' 60'

Renwick & Associates, Inc.
Professional Engineers & Land Surveyors
1304 Gemini Circle, Suite 4 ▼ Ottawa, IL 61350

NW 1/4 OF SEC. 30, T.30N., R.10E. OF THE 3RD P.M.

FILE NAME=	USER NAME =POUNDSTONE	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = MAY 2, 2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

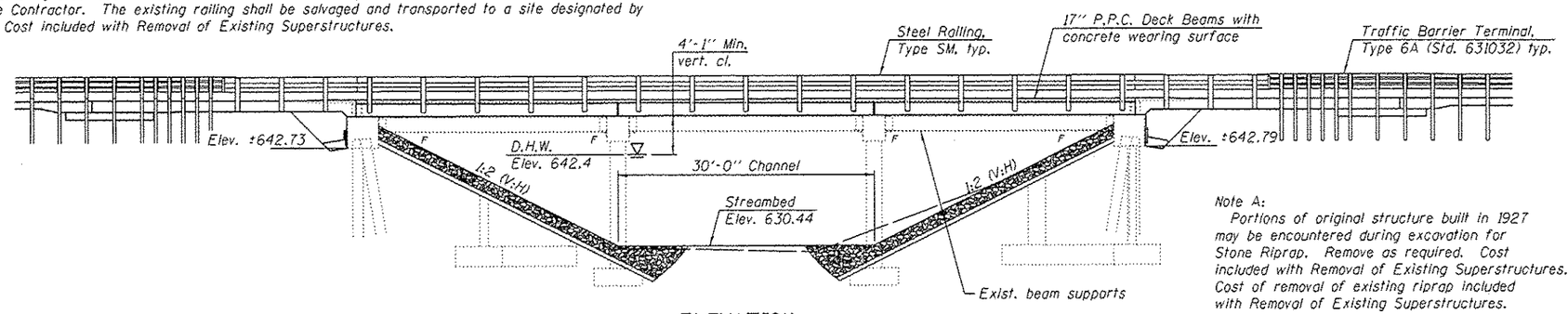
	PROJECT	JOB NO. R-93-001-13
SCALE: 1"=30'	SHEET NO. 1 OF 1 SHEETS	STA. 600+00.00 TO 606+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102BR	KANKAKEE	53	16
		CONTRACT NO. 66B66		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Benchmark: Chiseled "□" on top NE wingwall, 16.682' Rt. Sta. 602+63.67; Elev. 648.03

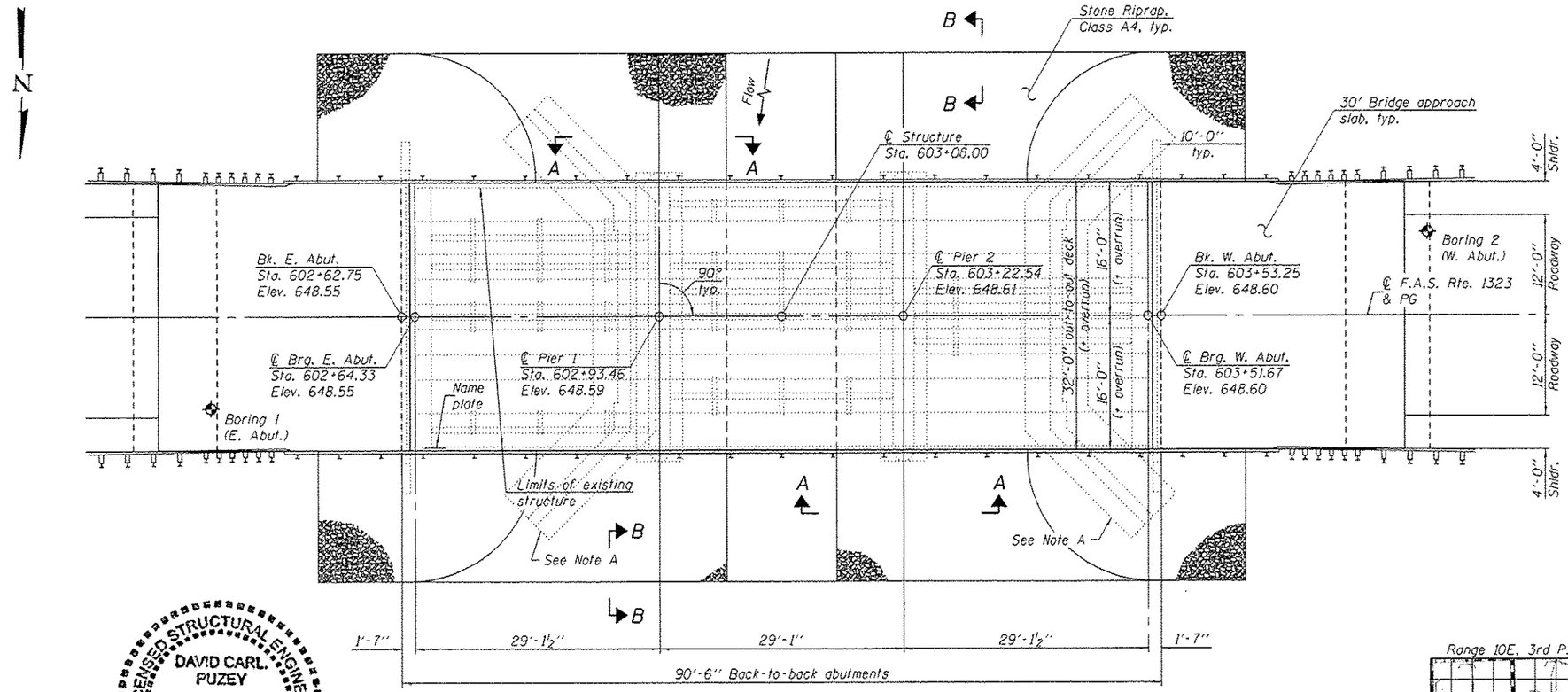
Existing structure: Structure No. 046-0109, built in 1981 as S.B.I. Rt. 115, Section 102BR at Sta. 603+08 as a three span PPC deck beam structure. 90'-6" back-to-back abutments, supported on concrete piles at abutments and spread footing piers. Existing superstructure and bridge approach slabs are to be removed and replaced. The existing structure shall be replaced during road closure.

Salvage: The existing steel beams located underneath the existing deck beams shall be removed and become property of the Contractor. The existing railing shall be salvaged and transported to a site designated by the Engineer. Cost included with Removal of Existing Superstructures.



ELEVATION

Note A:
Portions of original structure built in 1927 may be encountered during excavation for Stone Riprap. Remove as required. Cost included with Removal of Existing Superstructures. Cost of removal of existing riprap included with Removal of Existing Superstructures.



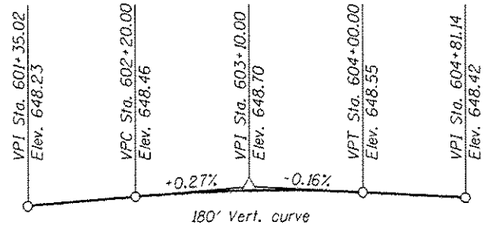
PLAN

Note: For Sections A-A and B-B, see sheet 2 of 22.

STATION 603+08.00
REBUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE. 1323 SEC. 102-BR
LOADING HL-93
STRUCTURE NO. 046-0109

NAME PLATE
See Std. 515001

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



PROFILE GRADE
(Along ℄ roadway)

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)
f'c = 3,500 psi (substructure repairs)
f'ci = 5,000 psi (wearing surface)
fy = 60,000 psi (Reinforcement)

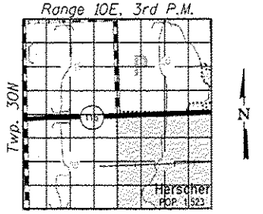
FIELD UNITS (EXIST. CONSTRUCTION)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
f_{pu} = 270,000 psi (½" low relax. strands)
f_{pbt} = 201,960 psi (½" low relax. strands)

LOADING HL-93 (NEW CONSTRUCTION)
Allow 50#/sq. ft. for future wearing surface.

LOADING HS20-44 (EXIST. CONSTRUCTION)

SEISMIC DATA
Seismic Performance Zone (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.042
Site Coefficient (S) = 1.2



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A.S. RTE. 1323 (IL RTE. 115)
OVER WEST BRANCH OF HORSE CREEK
SEC. 102-BR
KANKAKEE COUNTY
STATION 603+08.00
STRUCTURE NO. 046-0109

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS
Expires 11/30/14

DESIGNED - Fesseha Tekluaimanot	EXAMINED	DATE - 10/1/2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 046-0109	F.A.S. RTE. 1323 | SECTION 102-BR | COUNTY KANKAKEE | TOTAL SHEETS 53 | SHEET NO. 17
CHECKED -	PASSED	REVISED		SHEET NO. 1 OF 22 SHEETS	CONTRACT NO. 66866
DRAWN - h.t. duong		REVISED			ILLINOIS | FED. AID PROJECT
CHECKED - PT/CRA					

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

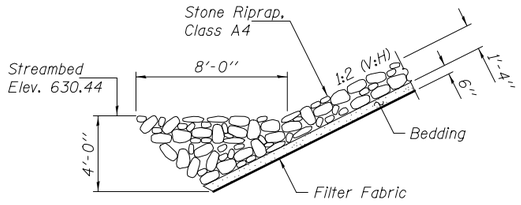
The Contractor is advised that the existing PPC Deck Beam are in a deteriorated condition with reduced load carrying capacity. It is the Contractors responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

Bolts for existing steel support beams shall be burned flush with the existing substructure surfaces. Grind existing anchor bolts smooth and seal with epoxy.

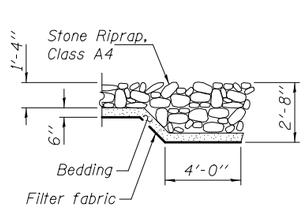
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.		52.0	52.0
Stone Riprap, Class A4	Sq. Yd.		665	665
Filter Fabric	Sq. Yd.		665	665
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		3.7	3.7
Structure Excavation	Cu. Yd.		48	48
Concrete Structures	Cu. Yd.		19.8	19.8
Concrete Superstructure	Cu. Yd.	95		95
Bridge Deck Grooving	Sq. Yd.	495		495
Protective Coat	Sq. Yd.	528		528
Concrete Wearing Surface, 5"	Sq. Yd.	315		315
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2827		2827
Reinforcement Bars, Epoxy Coated	Pound	29270		29270
Steel Railing, Type SM	Foot	237		237
Name Plates	Each	1		
Geocomposite Wall Drain	Sq. Yd.		28	28
Pipe Underdrains for Structures, 4"	Foot		115	115
Structural Repair of Concrete (Depth ≤ 5")	Sq. Ft.		129	129
Structural Repair of Concrete (Depth ≥ 5")	Sq. Ft.		4.5	4.5
Asbestos Bearing Pad Removal	Each		56	56

INDEX OF SHEETS



SECTION A-A



SECTION B-B

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)				
	E. Abut.	Pier 1	Pier 2	W. Abut.
Q500	642.73	627.14	627.14	642.79

WATERWAY INFORMATION

Drainage Area = 17.8 sq. mi.

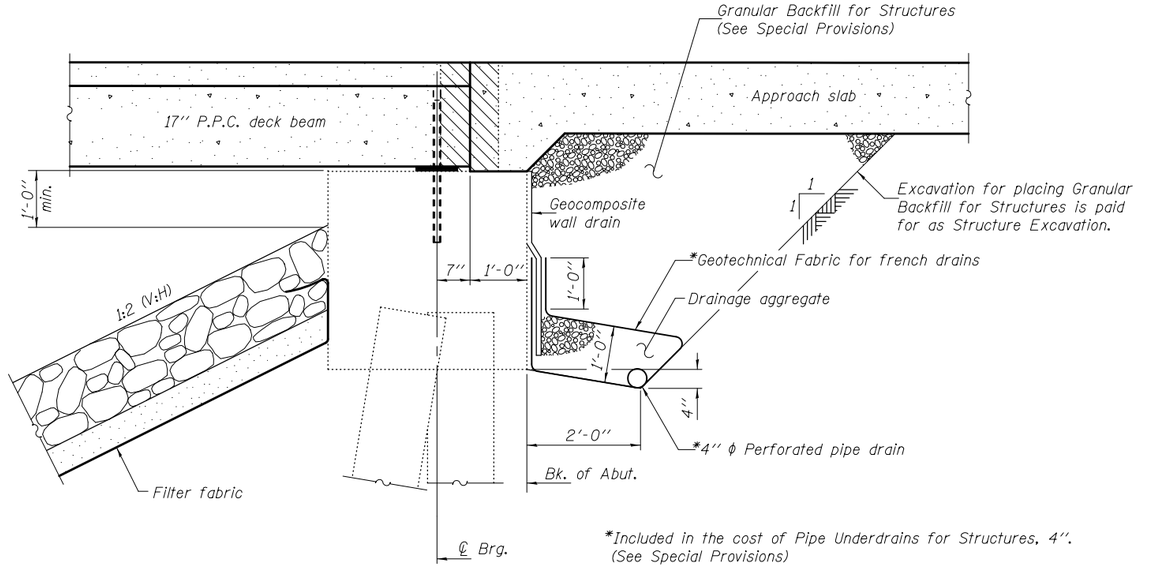
Exist. Low Grade Elev. 648.06 @ Sta. 601+50
Prop. Low Grade Elev. 648.07 @ Sta. 601+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	904	363	363	640.1	0.1	0.1	640.2	640.2
Design	50	1,320	504	504	642.4	0.1	0.1	642.5	642.5
Base	100	1,480	529	529	642.8	0.1	0.1	642.9	642.9
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1,860	578	578	643.5	0.1	0.1	643.6	643.6

10 year velocity through existing bridge = 2.5 ft./sec.
10 year velocity through proposed bridge = 2.5 ft./sec.

LEGEND

Concrete removal full width of cap. Typ. ea. abutment. See sheet 16 of 22.



*Included in the cost of Pipe Underdrains for Structures, 4". (See Special Provisions)

SECTION THRU ABUTMENT

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

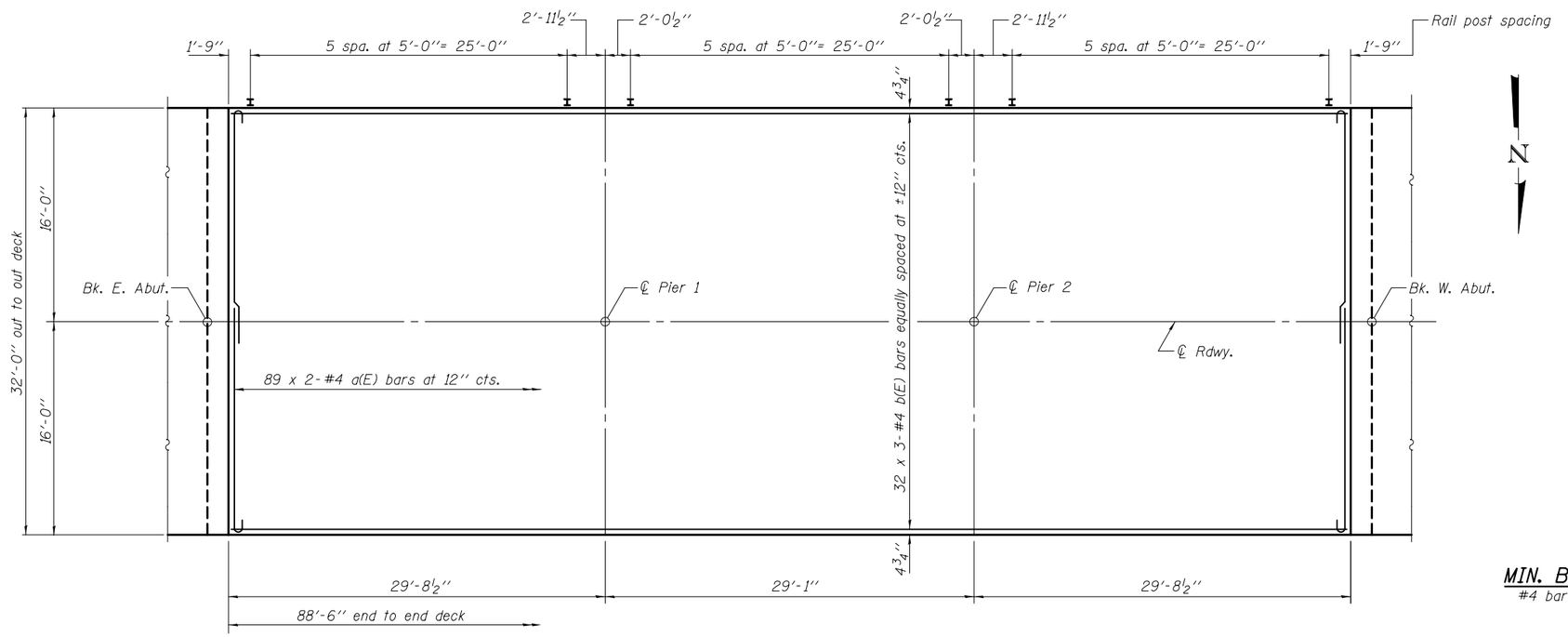
DESIGNED	-	Fess Teklehalmanot	
CHECKED	-	Ray Ahanchi	
DRAWN	-	h.t. duong	
CHECKED	-	FT/GRA	

EXAMINED — ACTING ENGINEER OF BRIDGE DESIGN
PASSED — ACTING ENGINEER OF BRIDGES AND STRUCTURES
DATE - OCTOBER 1, 2013
REVISED
REVISED

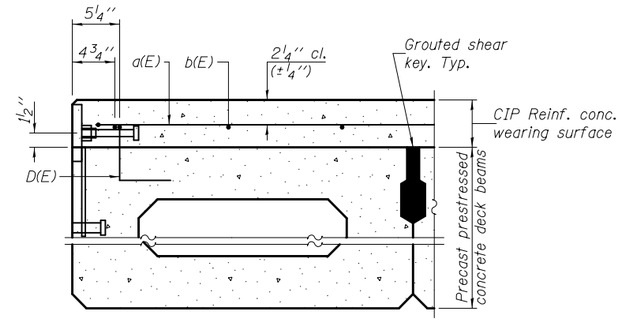
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 046-0109
SHEET NO. 2 OF 22 SHEETS

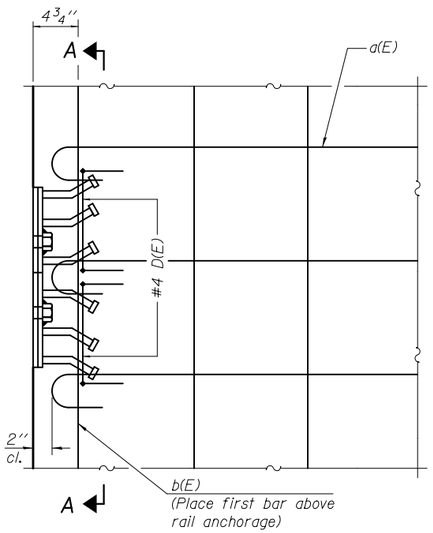
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	18
		CONTRACT NO. 66B66		
	ILLINOIS	FED. AID PROJECT		



PLAN



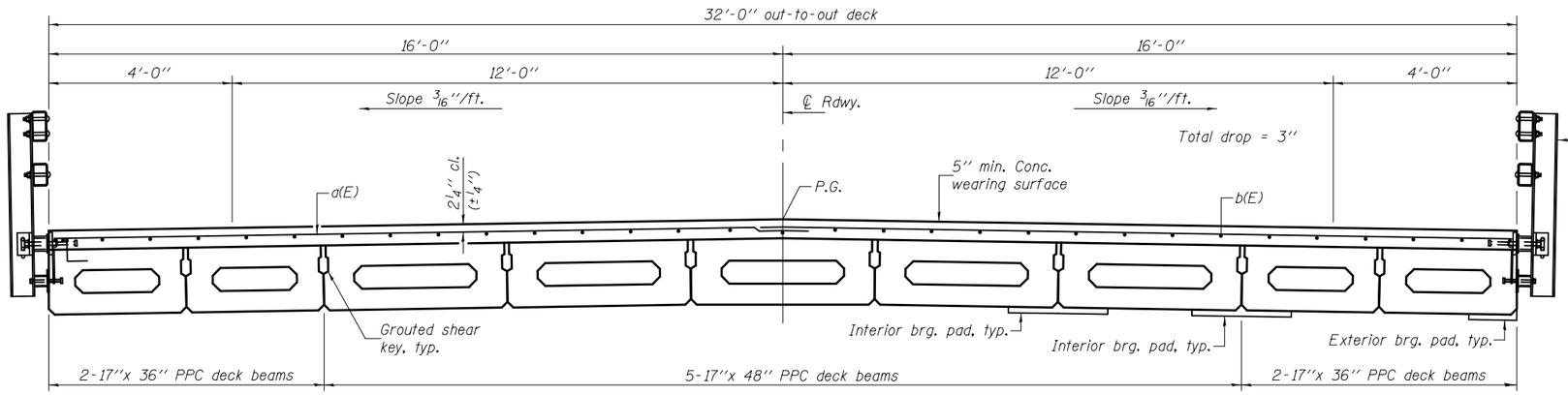
SECTION THRU FASCIA BEAM



PLAN

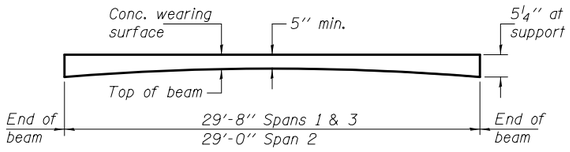
Notes: Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.
For v(E) bars, see sheet 4 of 22.

MIN. BAR LAP
#4 bar = 2'-7"

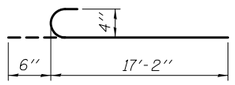


CROSS SECTION
(Looking west)

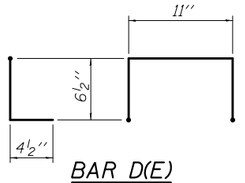
Notes: See sheets 9, 11, 13, 15 of 22 for fabric bearing pad details.



REINFORCED CONCRETE WEARING SURFACE PROFILE

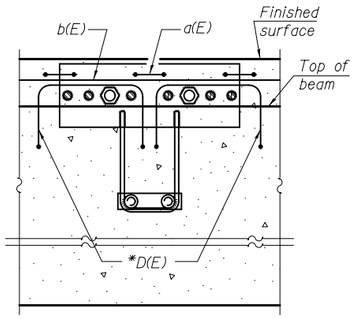


BAR a(E)



BAR D(E)

*Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam. See sheets 8 & 12 of 22.



SECTION A-A

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	178	#4	17'-8"	C
b(E)	96	#4	31'-2"	—
v(E)	66	#4	2'-4"	—
Reinforcement Bars, Epoxy Coated			Pound	4200
Concrete Wearing Surface, 5"			Sq. Yd.	315

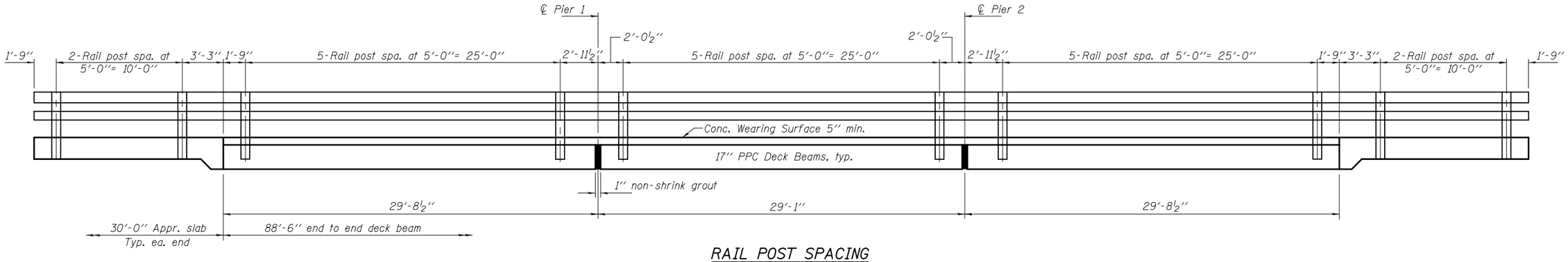
Bars indicated thus 32 x 3-#4 etc. indicates 32 lines of bars with 3 lengths per line.

DESIGNED	-	Eess Teklehalmanot	EXAMINED	ACTING ENGINEER OF BRIDGE DESIGN
CHECKED	-	Ray Ahanchi	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES
DRAWN	-	h.t. duong	DATE -	OCTOBER 1, 2013
CHECKED	-	FI/GRA	REVISED	—
			REVISED	—

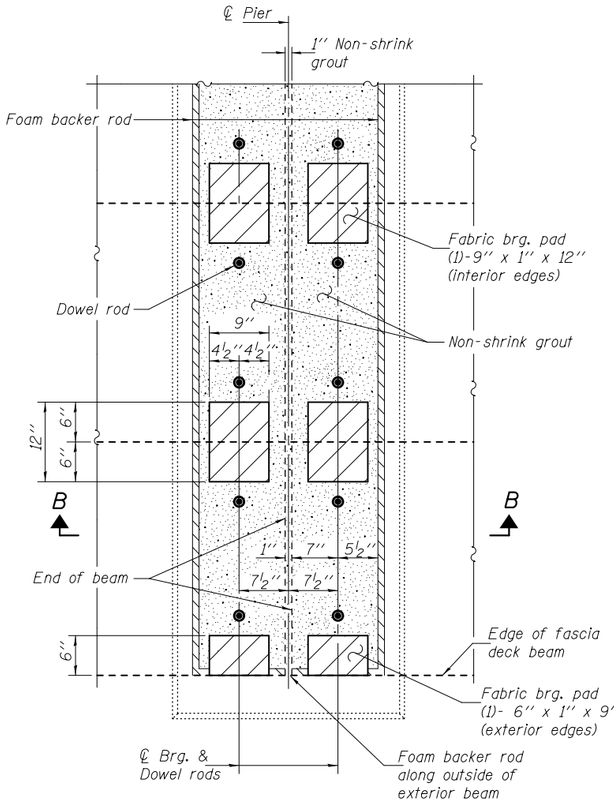
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 046-0109
SHEET NO. 3 OF 22 SHEETS

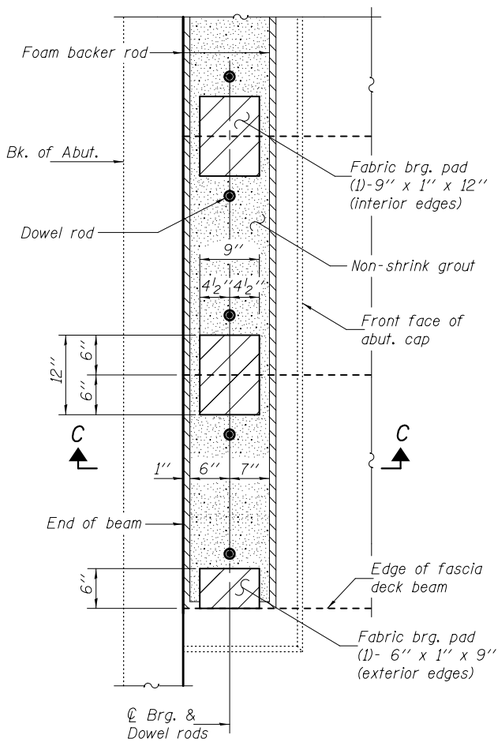
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	19
		CONTRACT NO. 66B66		
		ILLINOIS	FED. AID PROJECT	



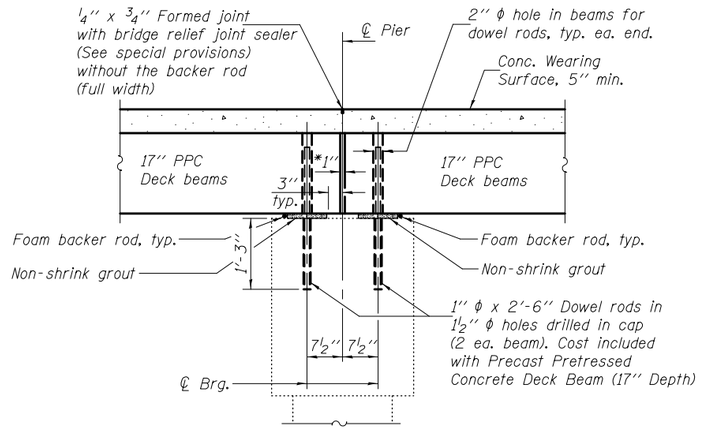
RAIL POST SPACING



PLAN
(At Pier)

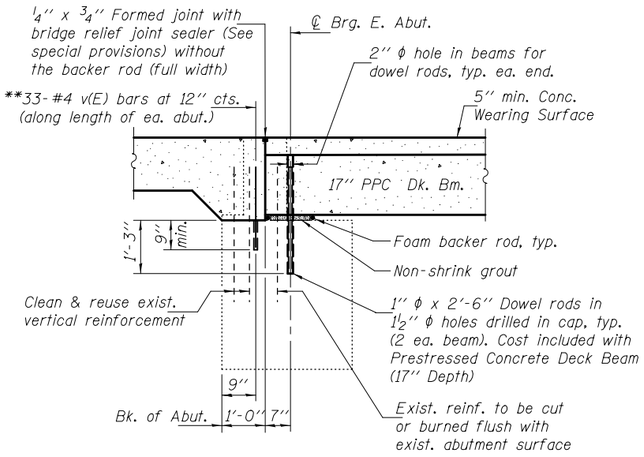


PLAN
(At Abutments)



SECTION B-B

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.



SECTION C-C
(West abut. similar by rotation)

**Epoxy grout v(E) bars in 9'' min. drilled holes according to Section 584 of the Std. Specs.

Notes: All concrete wearing surfaces shall be placed prior to casting the approach slab. See sheets 9, 11, 13, & 15 of 22 for fabric bearing pad details.

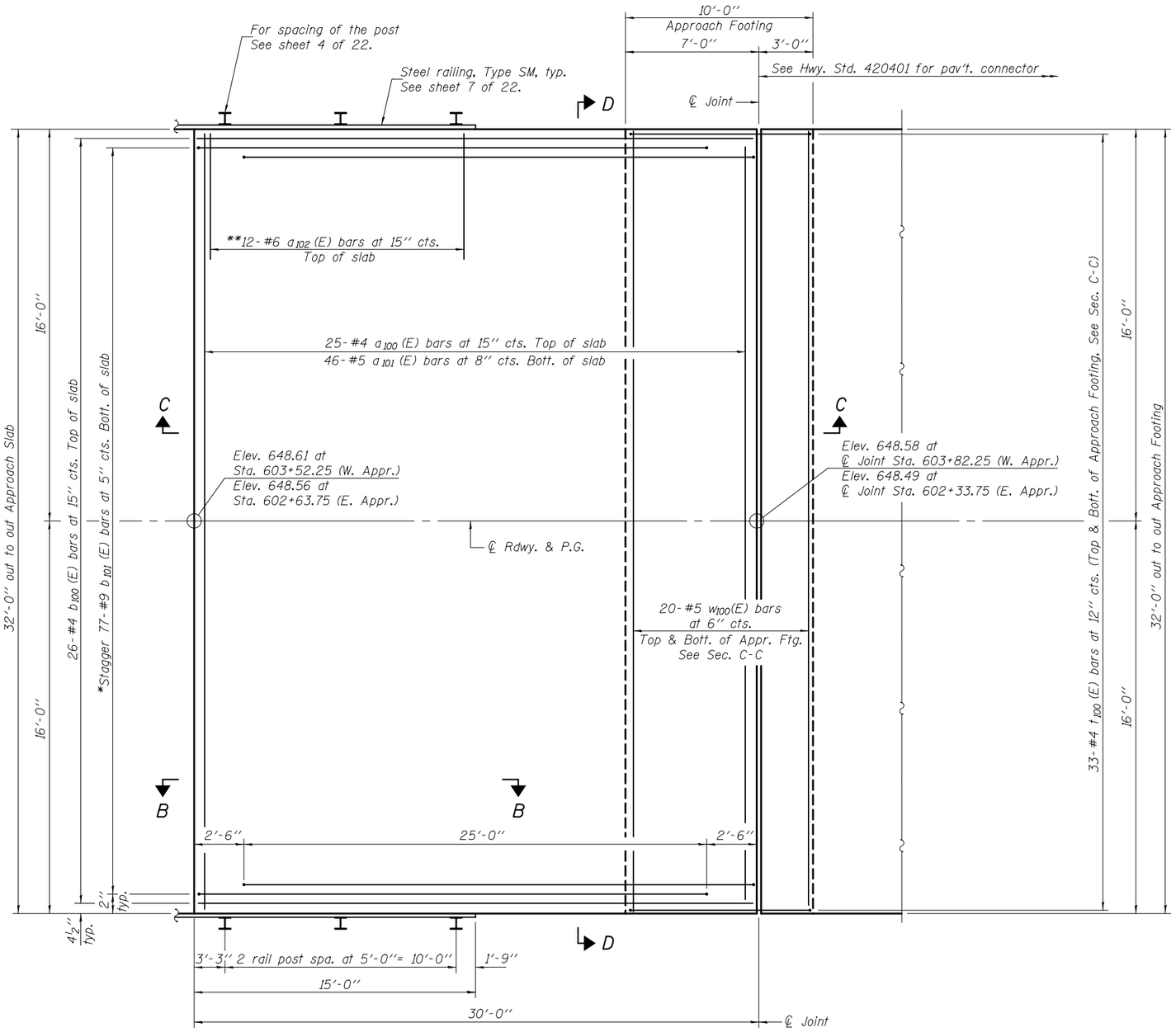
Existing vertical reinforcement bars extending into the new construction shall be cleaned, straightened and incorporated into the new construction. Cost included with Removal of Existing Superstructures.

Burn existing dowel rods flush with existing abutment and pier surfaces. Cost included with Removal of Existing Superstructures.

The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2-⅛'' fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.

DESIGNED - Fess Teklehalmanot	EXAMINED		DATE - OCTOBER 1, 2013	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SUPERSTRUCTURE DETAILS STRUCTURE NO. 046-0109**
CHECKED - Ray Ahanchi		ACTING ENGINEER OF BRIDGE DESIGN			SHEET NO. 4 OF 22 SHEETS
DRAWN - h.t. duong	PASSED		REVISED		
CHECKED - FT/GRA		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		

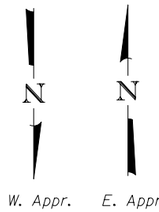
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	20
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		



PLAN

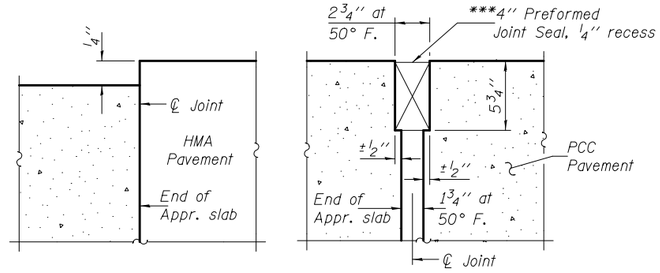
(West Approach shown - East Approach similar by mirror image)

*Tilt #9 b_{101} (E) bars as required to maintain clearance.
**Spaced between a_{100} (E) bars, typ. ea. rail.



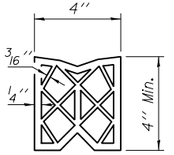
Notes: See sheet 6 of 22 for Sections C-C & D-D and View B-B.

***Cost included with Concrete Superstructure.



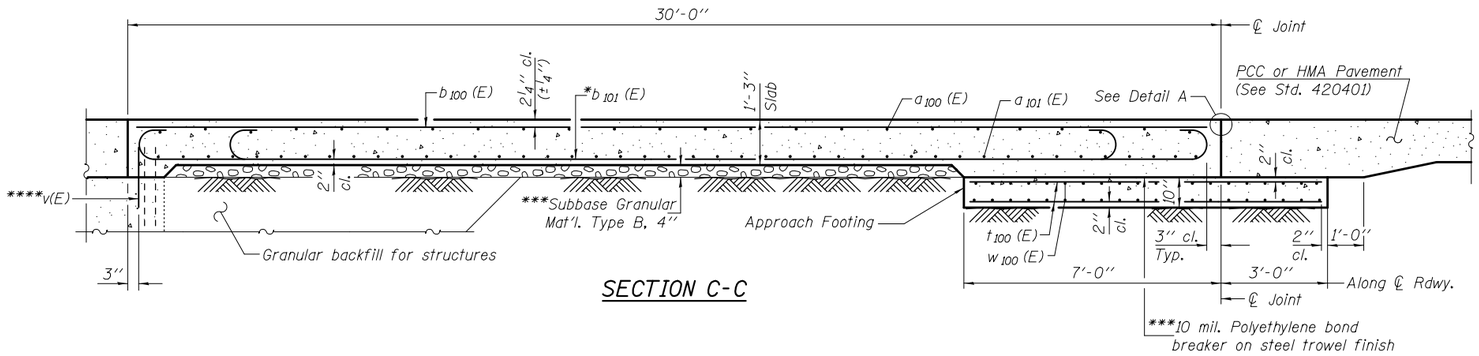
FLEXIBLE PAVEMENT RIGID PAVEMENT

DETAIL A

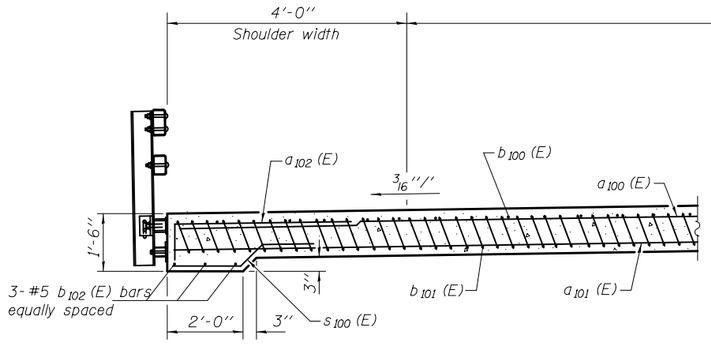


PREFORMED JOINT SEAL

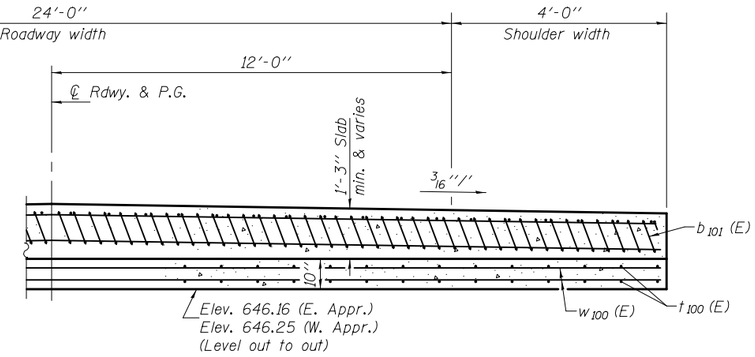
DESIGNED - Fess Teklehaimanot	EXAMINED	DATE - OCTOBER 1, 2013	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 046-0109**	F.A.S. RTE. 1323 / SECTION 102-BR / COUNTY KANKAKEE / TOTAL SHEETS 53 / SHEET NO. 21
CHECKED - Ray Ahanchi					CONTRACT NO. 66B66
DRAWN - h.t. duong	PASSED	REVISED		SHEET NO. 5 OF 22 SHEETS	ILLINOIS FED. AID PROJECT
CHECKED - FT/GRA	ACTING ENGINEER OF BRIDGE DESIGN; ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			



SECTION C-C



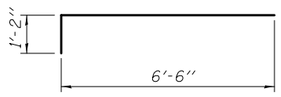
NEAR ABUTMENT



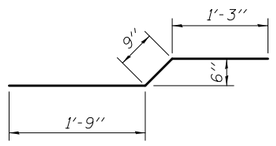
AT APPROACH FOOTING

SECTION D-D

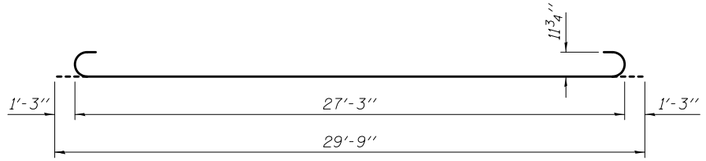
(See Plan for dimensions not shown)



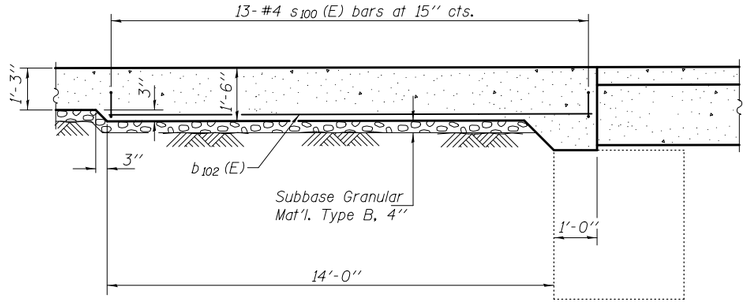
BAR a 102 (E)



BAR s 100 (E)



BAR b 101 (E)



VIEW B-B

Notes:

See sheet 5 of 22 for Detail A.
Approach slab shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For granular backfill for structures and drainage treatment details, see sheet 2 of 22.

*Tilt #9 b 101 (E) bars as required to maintain clearance.
***Cost included with Concrete Superstructure.
****Epoxy grout v(E) bars, see sheet 4 of 22.

TWO APPROACHES
BILL OF MATERIAL

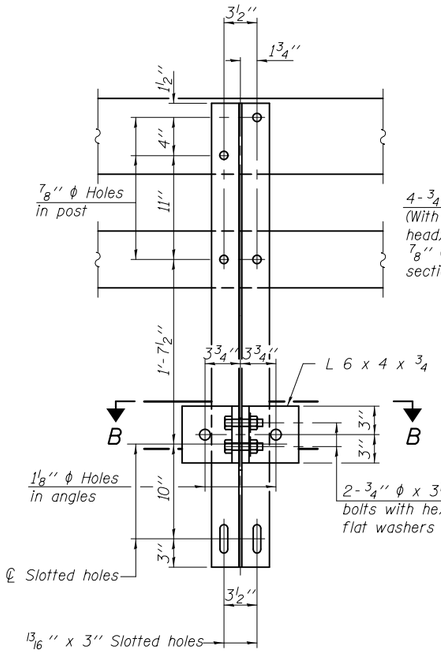
Bar	No.	Size	Length	Shape
a 100 (E)	50	#4	31'-8"	
a 101 (E)	92	#5	31'-8"	
a 102 (E)	48	#6	7'-8"	
b 100 (E)	52	#4	29'-8"	
b 101 (E)	154	#9	29'-9"	
b 102 (E)	12	#5	14'-8"	
s 100 (E)	52	#4	3'-9"	
t 100 (E)	132	#4	9'-8"	
w 100 (E)	80	#5	31'-8"	
Concrete Superstructure			Cu. Yd.	95
Concrete Structures			Cu. Yd.	19.8
Reinforcement Bars, Epoxy Coated			Pound	25070

DESIGNED -	Fess Teklehaimanot	EXAMINED	DATE - OCTOBER 1, 2013
CHECKED -	Ray Ahanchi		
DRAWN -	h.t. duong	PASSED	REVISED ___
CHECKED -	FT/GRA	ACTING ENGINEER OF BRIDGE DESIGN / ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED ___

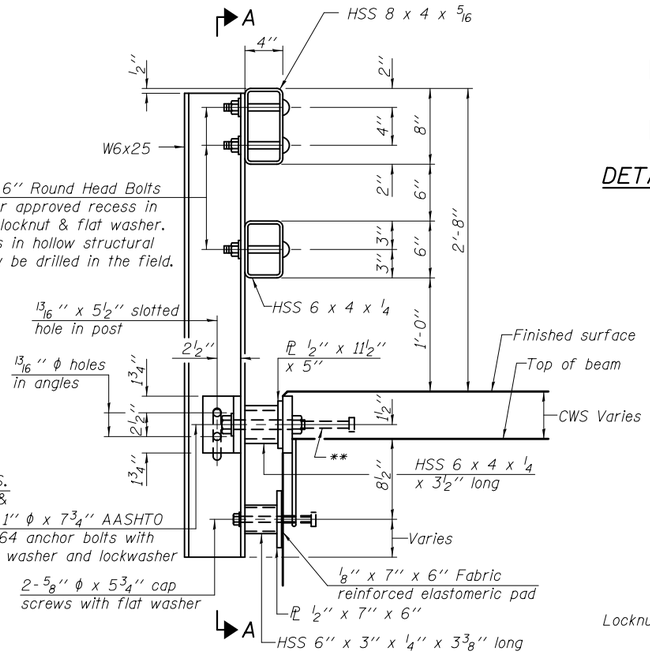
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 046-0109
SHEET NO. 6 OF 22 SHEETS

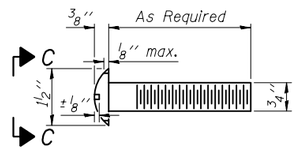
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	22
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			



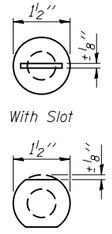
SECTION A-A



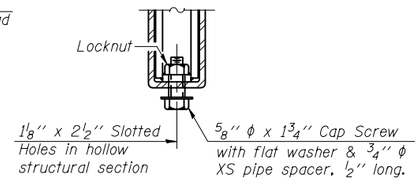
SECTION AT RAIL POST



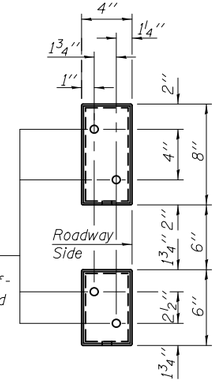
DETAIL OF ¾'' ϕ ROUND HEAD BOLT



VIEW C-C

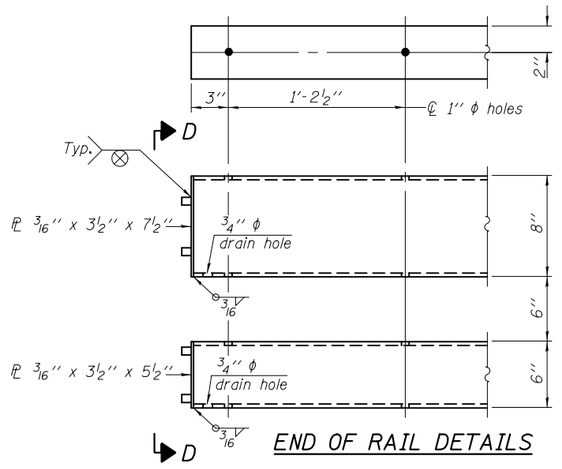


RAIL SPLICE CONNECTION AT EXPANSION JT.

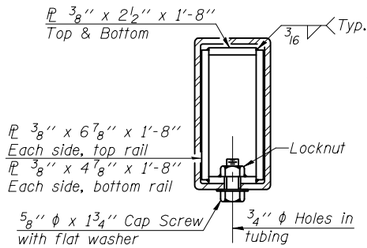


℄ -⅝'' reduced base welded studs. Provide 4-⅝'' washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032 .

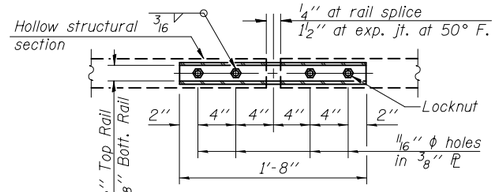
VIEW D-D



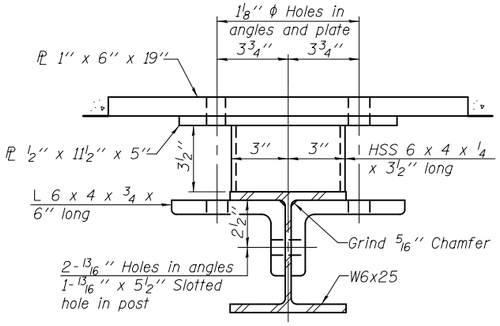
END OF RAIL DETAILS



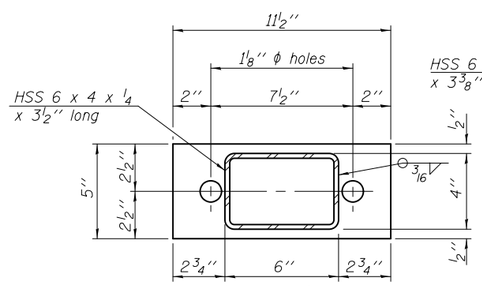
SECTION AT RAIL SPLICE



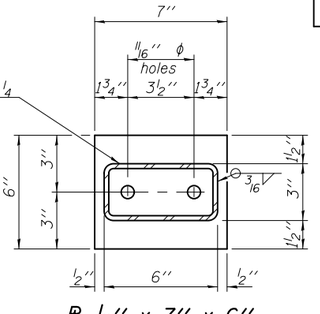
PLAN-BOTT. SPLICE PL TYPICAL



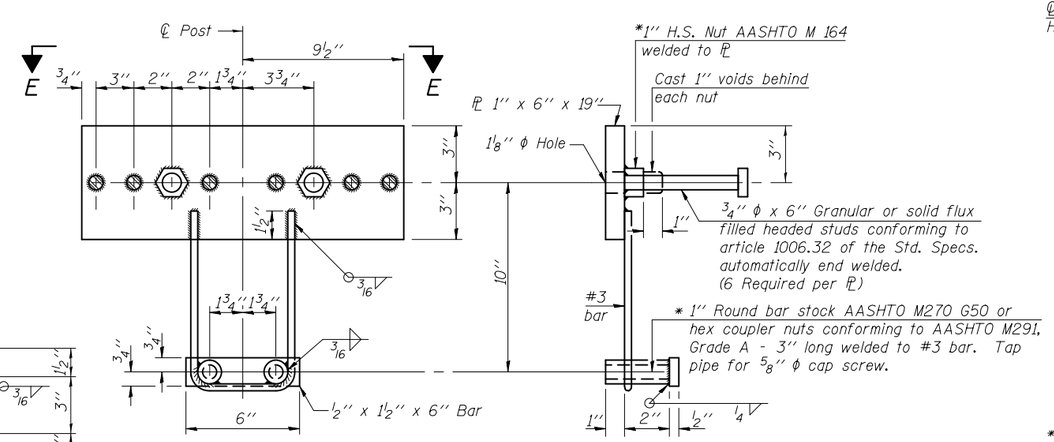
SECTION B-B



PL ½'' x 11½'' x 5''

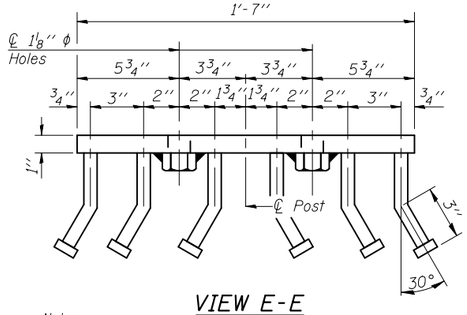


PL ½'' x 7'' x 6''



ANCHOR DEVICE

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.



VIEW E-E

Notes:

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient ¼'' x 6'' x 1'-2'' galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

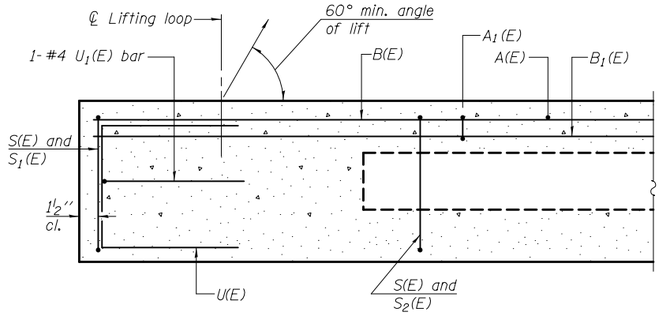
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	237

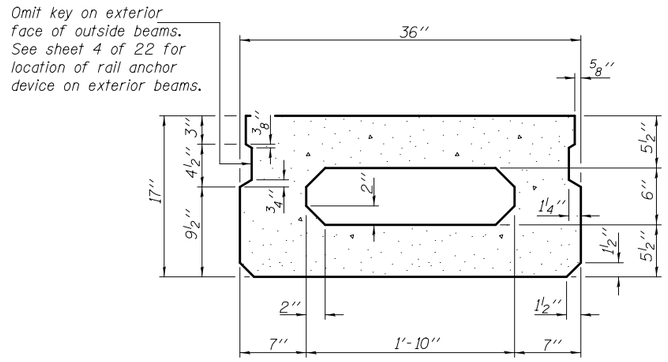
R-34CWS 7-1-10 (6'-3'' Maximum Post Spacing) (5'' minimum to 7⅛'' maximum CWS thickness)

DESIGNED - Fess Teklehalmanot	EXAMINED	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - Ray Ahanchi	PASSED	REVISED ___	STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE STRUCTURE NO. 046-0109
DRAWN - h.t. duong	ACTING ENGINEER OF BRIDGE DESIGN	REVISED ___	SHEET NO. 7 OF 22 SHEETS
CHECKED - FT/GRA	ACTING ENGINEER OF BRIDGES AND STRUCTURES		

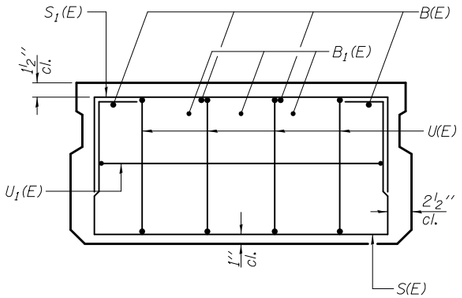
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	23
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		



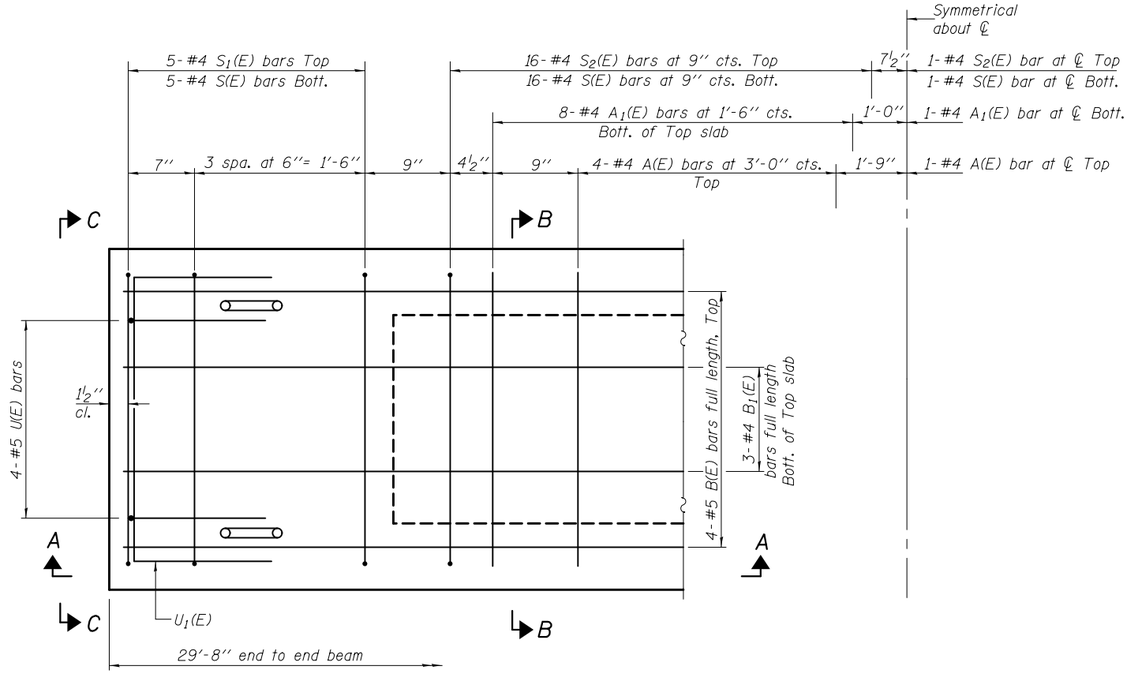
SECTION A-A



SECTION B-B
(Showing dimensions)

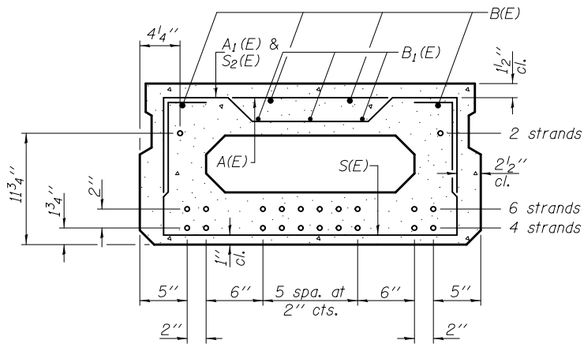


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MIN. BAR LAPS
#4 bar = 2'-0"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

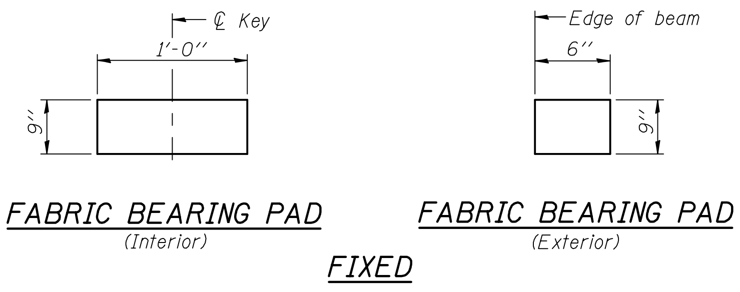
	Bar	No.	Size	Length	Shape
	A(E)	9	#4	2'-7"	—
	$A_1(E)$	17	#4	2'-10"	~
	B(E)	4	#5	29'-5"	—
	$B_1(E)$	3	#4	29'-5"	—
*	D(E)	12	#4	2'-9"	⌐¬
	S(E)	43	#4	5'-9"	⌐¬
	$S_1(E)$	10	#4	4'-3"	⌐¬
	$S_2(E)$	33	#4	4'-6"	⌐¬
	U(E)	8	#5	3'-8"	⊏
	$U_1(E)$	2	#4	5'-0"	⌐¬

*D(E) bars located on exterior face of outside beams only.

Note: See sheet 9 of 22 for additional details and Bill of Material.
See sheet 3 of 22 for detail of D(E) bar.

DESIGNED - Eass Teklehaimanot	EXAMINED	ACTING ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17" x 36" PPC DECK BEAM (SPANS 1 & 3) STRUCTURE NO. 046-0109
CHECKED - Ray Ahanchi	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED —		SHEET NO. 8 OF 22 SHEETS
DRAWN - h.t. duong			REVISED —		
CHECKED - ET/GRA					

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	24
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		

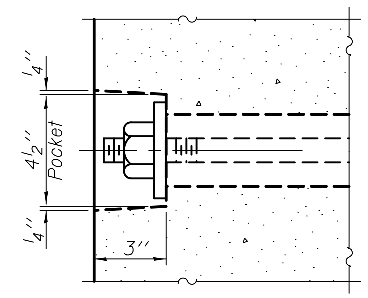


FABRIC BEARING PAD
(Interior)

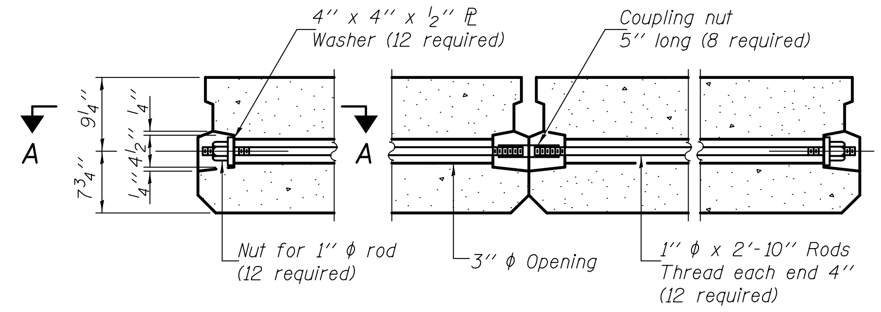
FABRIC BEARING PAD
(Exterior)

FIXED

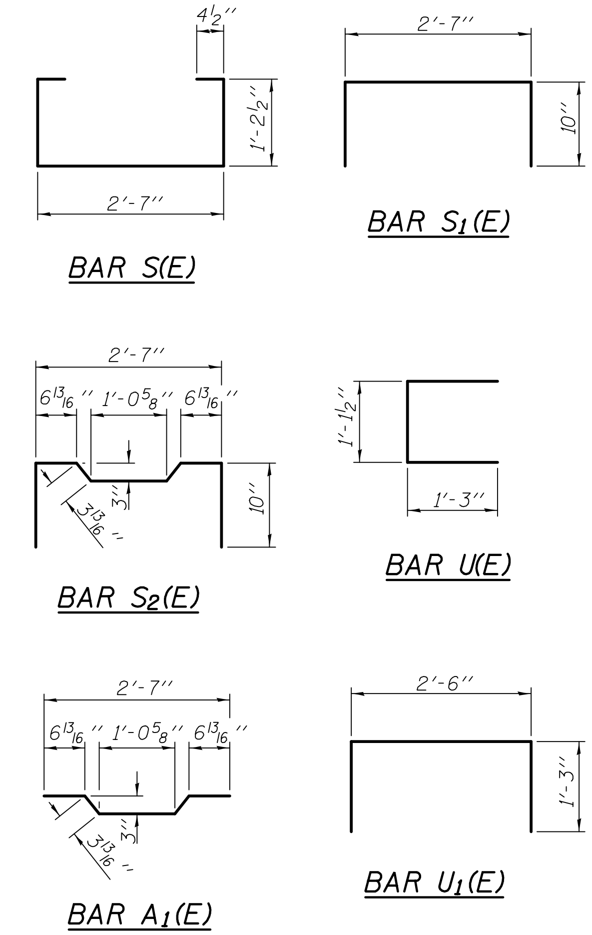
Notes:
All bearing pads shall be 1" thick.

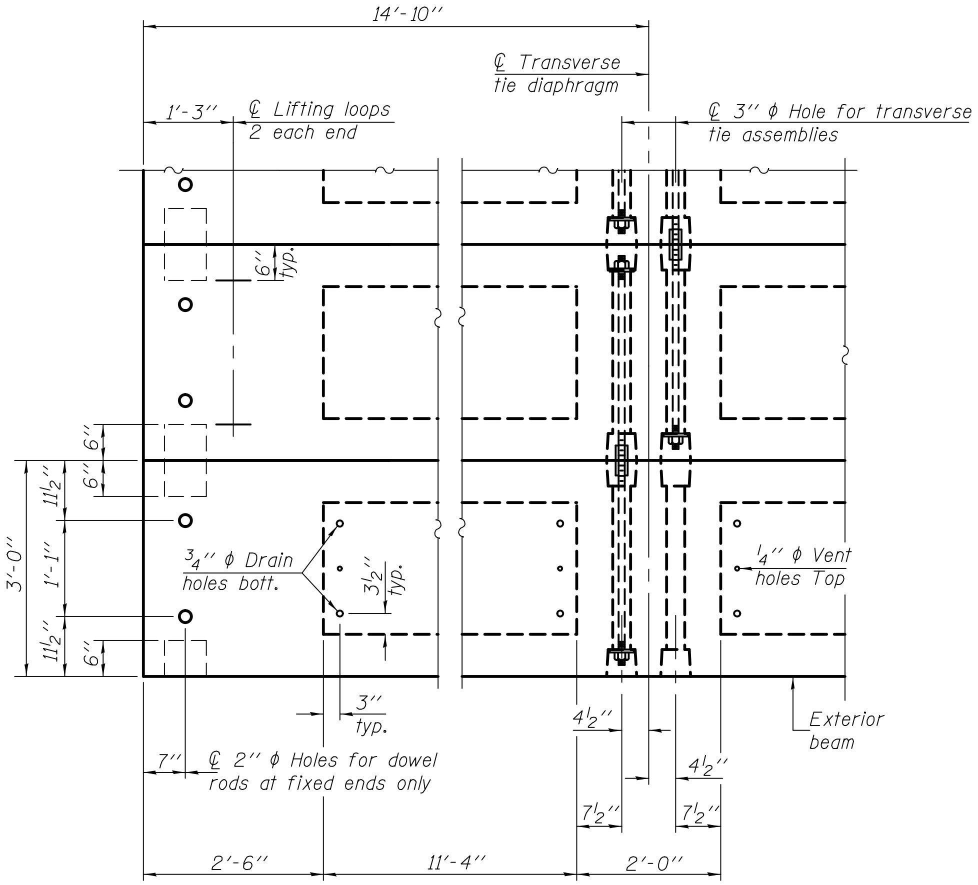


SECTION A-A



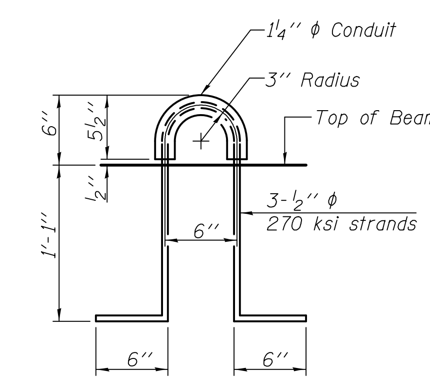
TYPICAL TRANSVERSE TIE ASSEMBLY





PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	712

PD-1736-OD 7-1-10

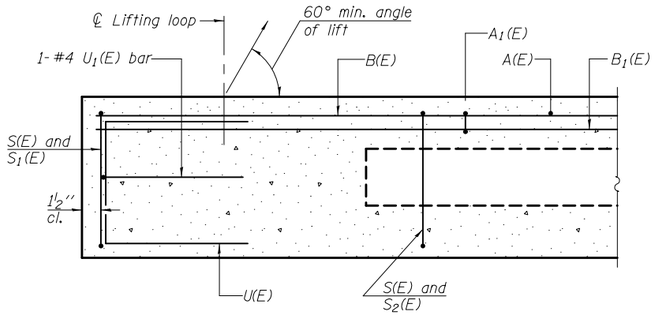
DESIGNED - Eess Teklehaimanot	EXAMINED	ACTING ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 1, 2013
CHECKED - Roy Ahanchi			
DRAWN - h.t. duong	PASSED	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED
CHECKED - ET/GRA			REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

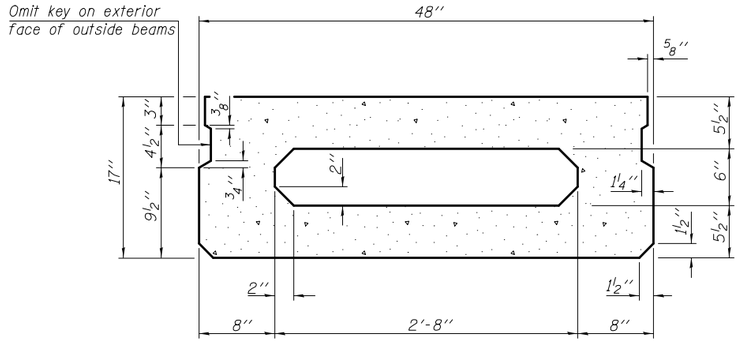
17" x 36" PPC DECK BEAM DETAILS (SPANS 1 & 3)
STRUCTURE NO. 046-0109

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	25
		CONTRACT NO. 66B66		

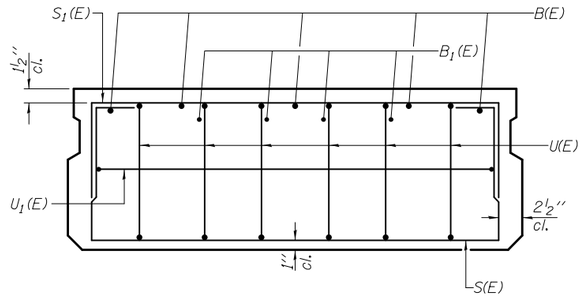
ILLINOIS FED. AID PROJECT



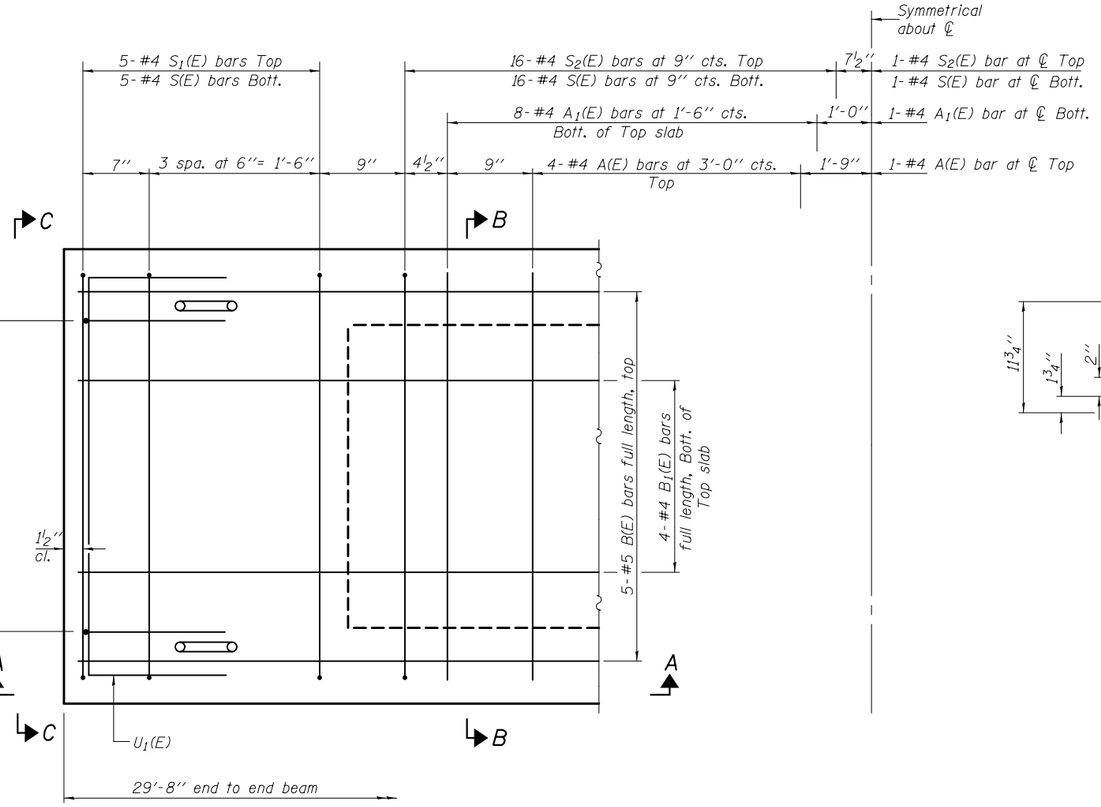
SECTION A-A



SECTION B-B
(Showing dimensions)

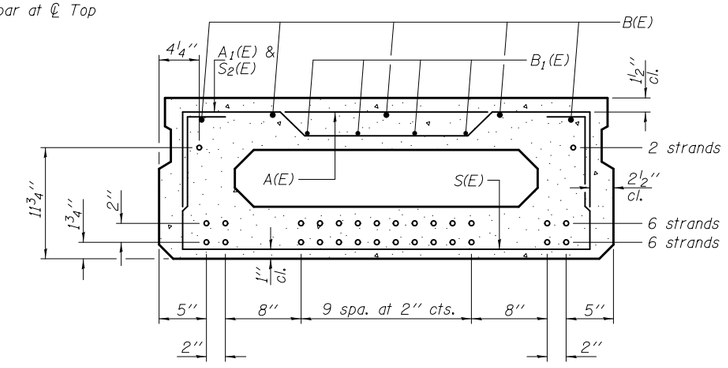


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MIN. BAR LAPS
#4 bar = 2'-0"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	9	#4	3'-7"	—
$A_1(E)$	17	#4	3'-10"	∼
B(E)	4	#5	29'-5"	—
$B_1(E)$	3	#4	29'-5"	—
S(E)	43	#4	6'-9"	⊔
$S_1(E)$	10	#4	5'-3"	⊓
$S_2(E)$	33	#4	5'-6"	⊓
U(E)	12	#5	3'-8"	⊏
$U_1(E)$	2	#4	6'-0"	⊓

Note: See sheet 11 of 22 for additional details and Bill of Material.

PD-1748-0 7-1-10

DESIGNED - Eass Teklehaimanot	EXAMINED	Jayne F. Schaffer ACTING ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17" x 48" PPC DECK BEAM (SPANS 1 & 3) STRUCTURE NO. 046-0109
CHECKED - Ray Ahanchi	PASSED	A Carl Purvis ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED —		SHEET NO. 10 OF 22 SHEETS
DRAWN - h.t. duong			REVISED —		
CHECKED - ET/GRA					

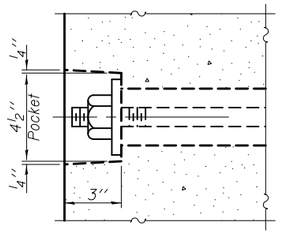
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	26
		CONTRACT NO. 66B66		
		ILLINOIS FED. AID PROJECT		

FABRIC BEARING PAD (Interior)

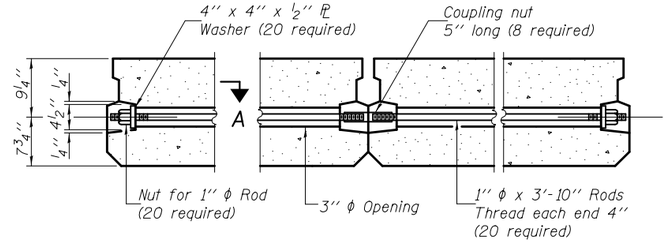
FABRIC BEARING PAD (Exterior)

FIXED

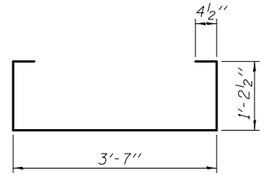
Notes:
All bearing pads shall be 1" thick.



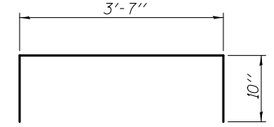
SECTION A-A



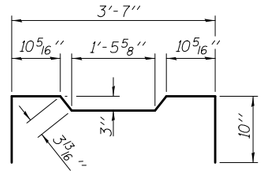
TYPICAL TRANSVERSE TIE ASSEMBLY



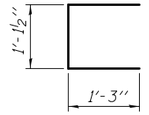
BAR S(E)



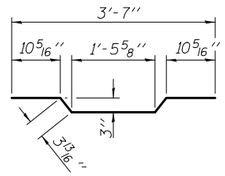
BAR S_1(E)



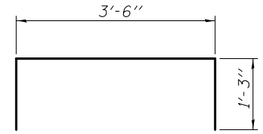
BAR S_2(E)



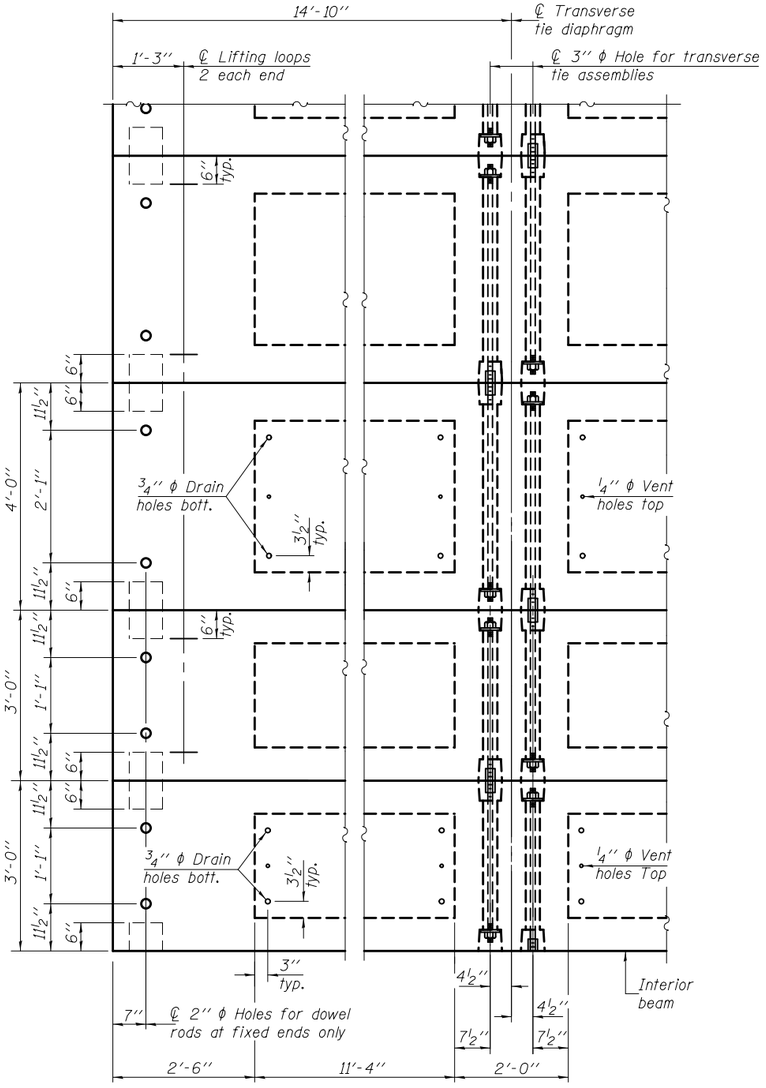
BAR U(E)



BAR A_1(E)

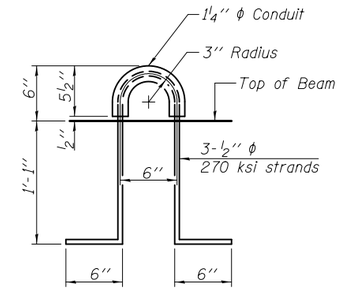


BAR U_1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1187

DESIGNED -	Eass Teklehaimanot	EXAMINED	DATE - OCTOBER 1, 2013
CHECKED -	Ray Ahanchi	PASSED	REVISED ___
DRAWN -	h.t. duong		REVISED ___
CHECKED -	ET/GRA		

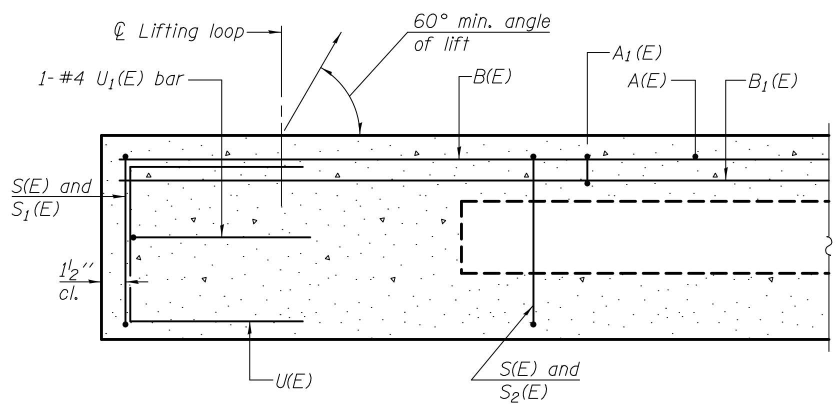
ACTING ENGINEER OF BRIDGE DESIGN

ACTING ENGINEER OF BRIDGES AND STRUCTURES

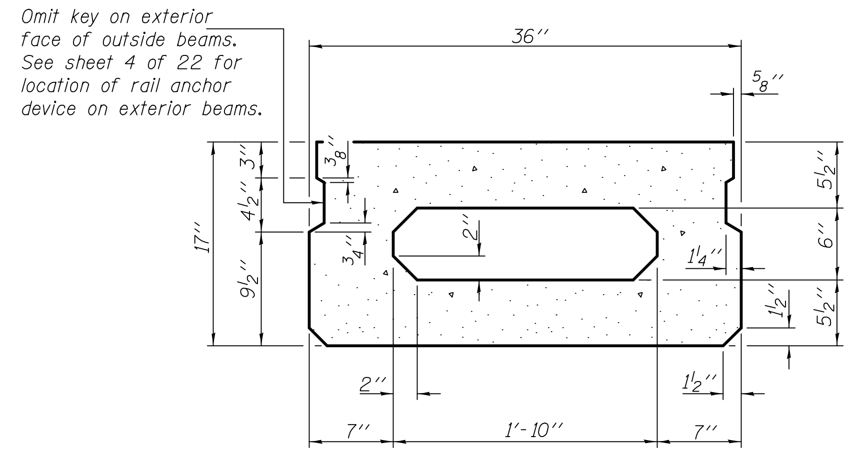
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 48" PPC DECK BEAM DETAILS (SPANS 1 & 3)
STRUCTURE NO. 046-0109
SHEET NO. 11 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	27
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

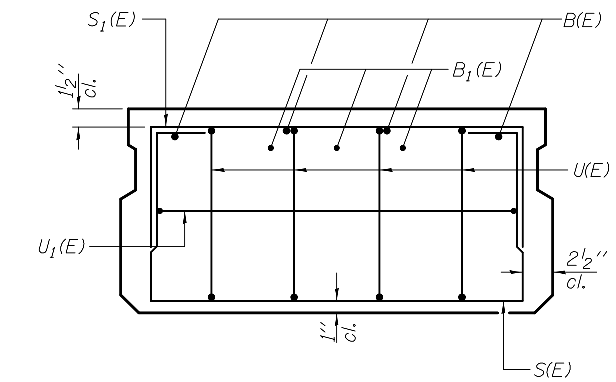


SECTION A-A

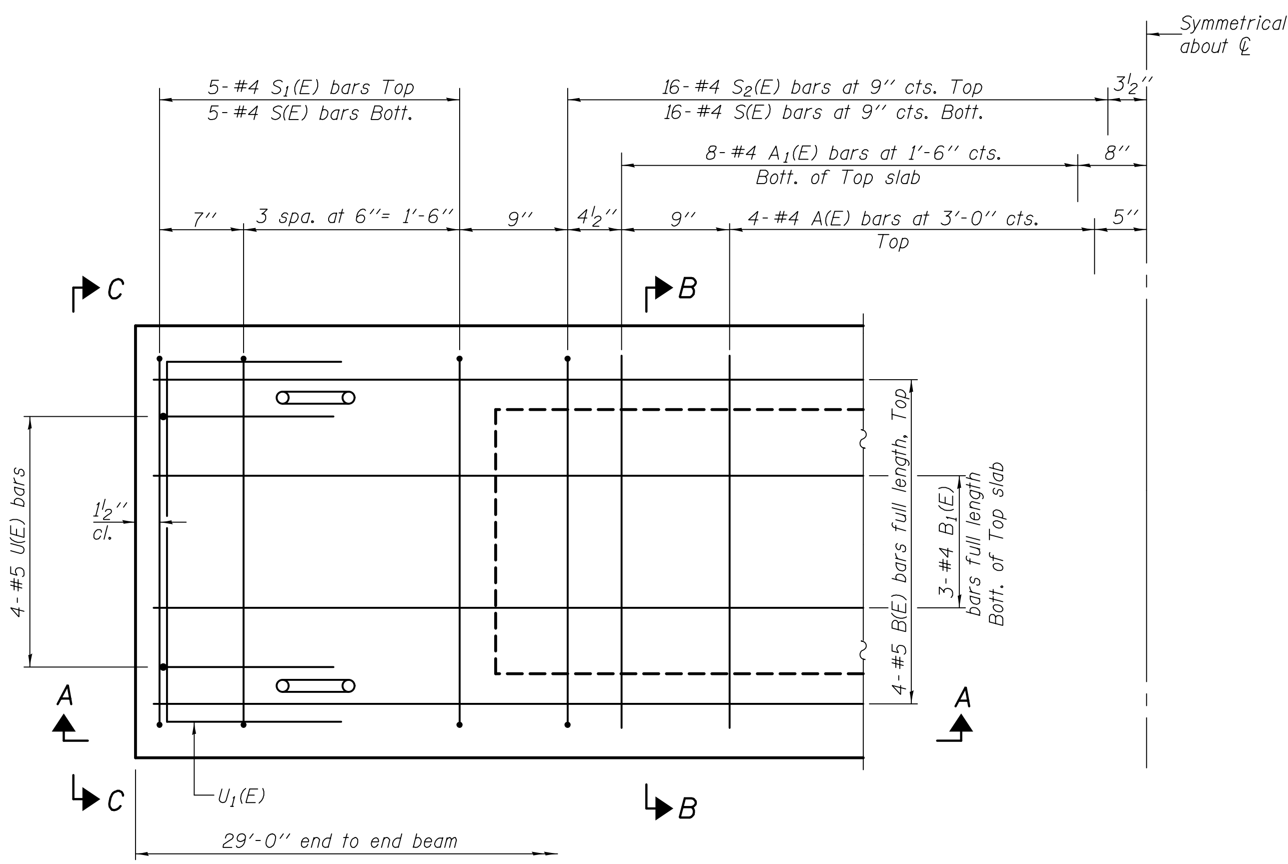


SECTION B-B

(Showing dimensions)

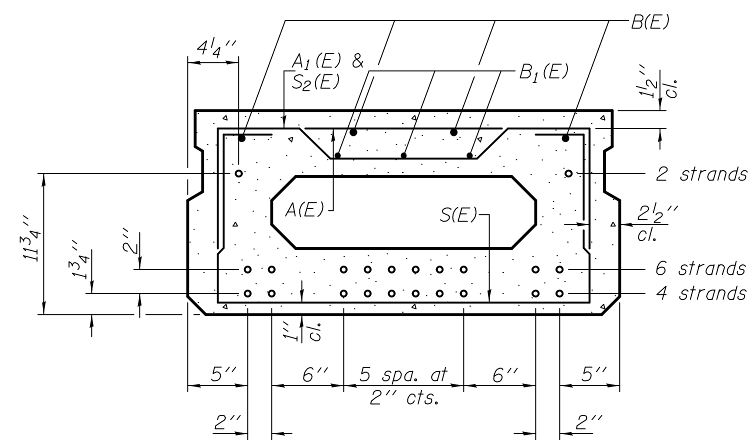


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S_2(E) bars may be adjusted up to 4″ in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MIN. BAR LAPS

#4 bar = 2′-0″
#5 bar = 2′-6″

BAR LIST

ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	8	#4	2′-7″	—
A_1(E)	16	#4	2′-10″	⌣
B(E)	4	#5	28′-9″	—
B_1(E)	3	#4	28′-9″	—
* D(E)	12	#4	2′-9″	⊓
S(E)	42	#4	5′-9″	⊔
S_1(E)	10	#4	4′-3″	⊓
S_2(E)	32	#4	4′-6″	⊓
U(E)	8	#5	3′-8″	⊏
U_1(E)	2	#4	5′-0″	⊓

*D(E) bars located on exterior face of outside beams only.

Note: See sheet 13 of 22 for additional details and Bill of Material.
See sheet 3 of 22 for detail of D(E) bar.

DESIGNED - Fess Teklehaimanot	EXAMINED — ACTING ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - Ray Ahanchi			
DRAWN - h.t. duong	PASSED — ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	
CHECKED - ET/GRA		REVISED	

17″ x 36″ PPC DECK BEAM (SPAN 2)
STRUCTURE NO. 046-0109
SHEET NO. 12 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	28

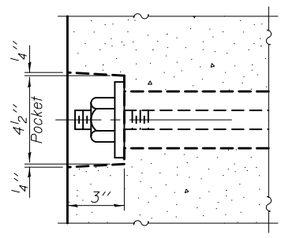
CONTRACT NO. 66B66
ILLINOIS FED. AID PROJECT

FABRIC BEARING PAD
(Interior)

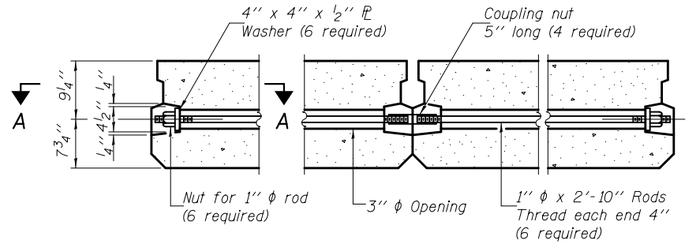
FABRIC BEARING PAD
(Exterior)

FIXED

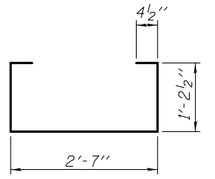
Notes:
All bearing pads shall be 1" thick.



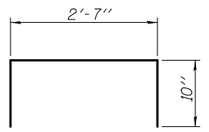
SECTION A-A



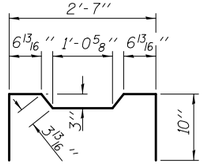
TYPICAL TRANSVERSE TIE ASSEMBLY



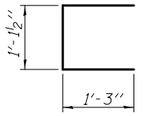
BAR S(E)



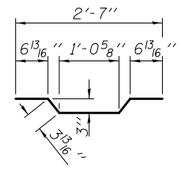
BAR S1(E)



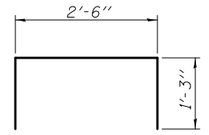
BAR S2(E)



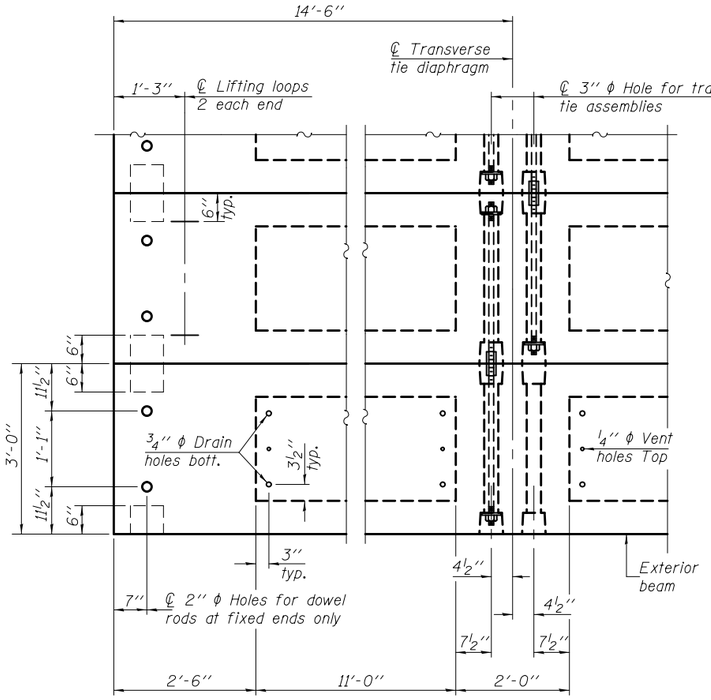
BAR U(E)



BAR A1(E)

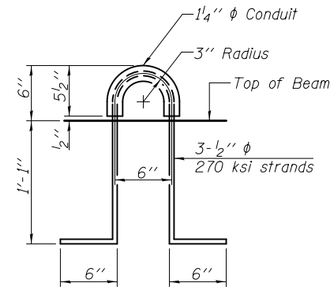


BAR U1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

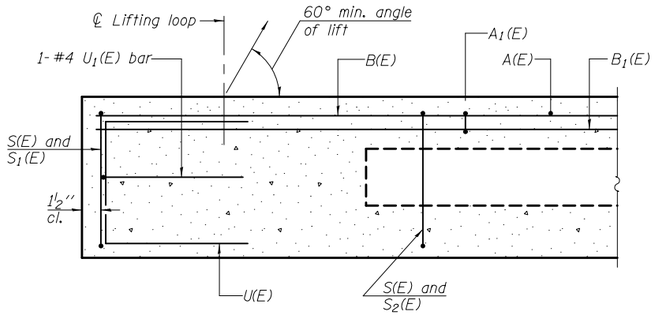
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

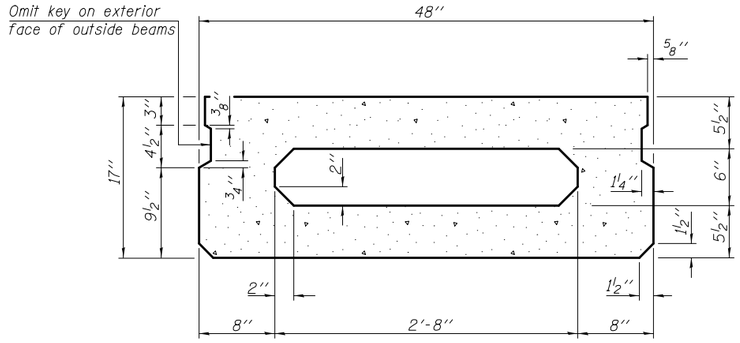
Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	348

PD-1736-0D 7-1-10

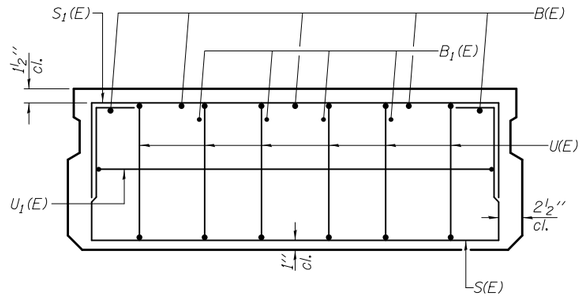
DESIGNED - Fess Teklehalmanot	EXAMINED	Jayne F. Liddle ACTING ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17" x 36" PPC DECK BEAM DETAILS (SPAN 2) STRUCTURE NO. 046-0109	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - Ray Ahanchi	PASSED	M. Carl Ingram ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED ___		SHEET NO. 13 OF 22 SHEETS	1323	102-BR	KANKAKEE	53	29
DRAWN - h.t. duong			REVISED ___						CONTRACT NO. 66B66	
CHECKED - ETZGRA								ILLINOIS	FED. AID PROJECT	



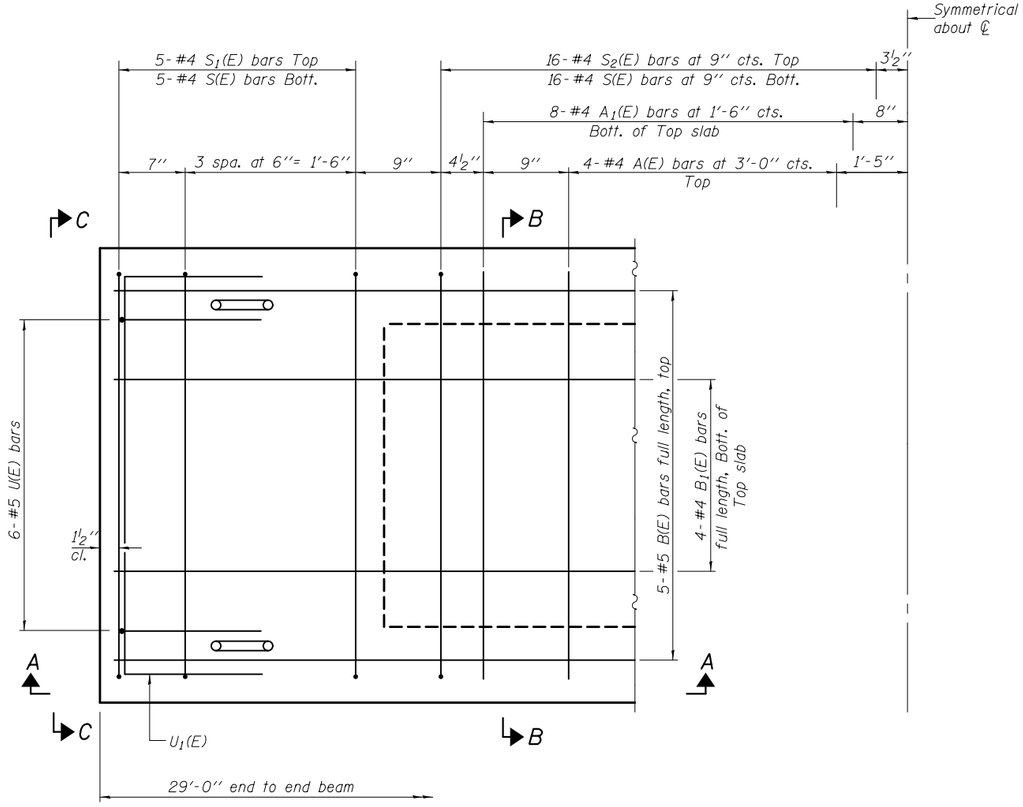
SECTION A-A



SECTION B-B
(Showing dimensions)

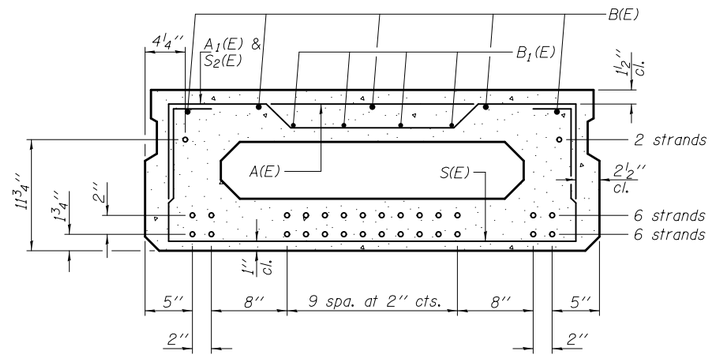


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4'' in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MIN. BAR LAPS
#4 bar = 2'-0''
#5 bar = 2'-6''

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	8	#4	3'-7''	—
$A_1(E)$	16	#4	3'-10''	~
B(E)	4	#5	28'-9''	—
$B_1(E)$	3	#4	28'-9''	—
S(E)	42	#4	6'-9''	⊔
$S_1(E)$	10	#4	5'-3''	⊓
$S_2(E)$	32	#4	5'-6''	⊓
U(E)	12	#5	3'-8''	⊏
$U_1(E)$	2	#4	6'-0''	⊓

Note: See sheet 15 of 22 for additional details and Bill of Material.

PD-1748-0 7-1-10

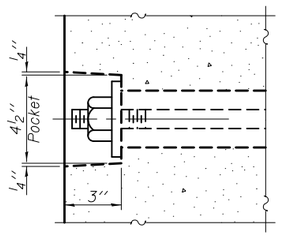
DESIGNED - Eass Teklehaimanot	EXAMINED		DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17" x 48" PPC DECK BEAM (SPAN 2) STRUCTURE NO. 046-0109	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - Ray Ahanchi	PASSED	ACTING ENGINEER OF BRIDGE DESIGN	REVISED —		SHEET NO. 14 OF 22 SHEETS	1323	102-BR	KANKAKEE	53	30
DRAWN - h.t. duong		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED —					CONTRACT NO. 66B66		
CHECKED - ET/GRA								ILLINOIS FED. AID PROJECT		

FABRIC BEARING PAD
(Interior)

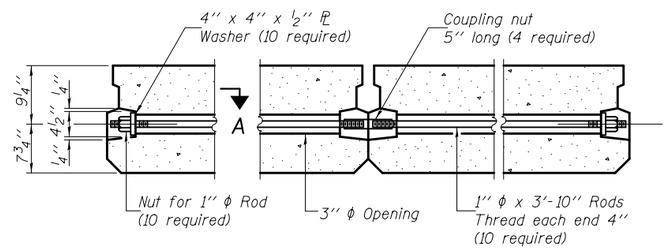
FABRIC BEARING PAD
(Exterior)

FIXED

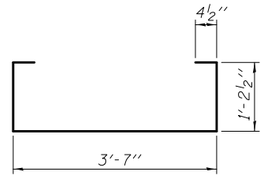
Notes:
All bearing pads shall be 1" thick.



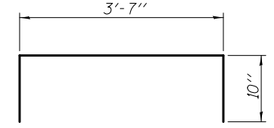
SECTION A-A



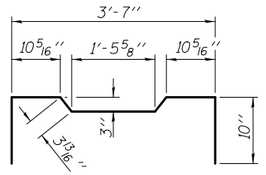
TYPICAL TRANSVERSE TIE ASSEMBLY



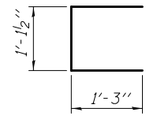
BAR S(E)



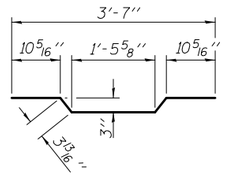
BAR S_1(E)



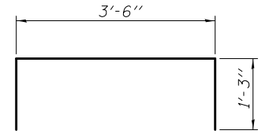
BAR S_2(E)



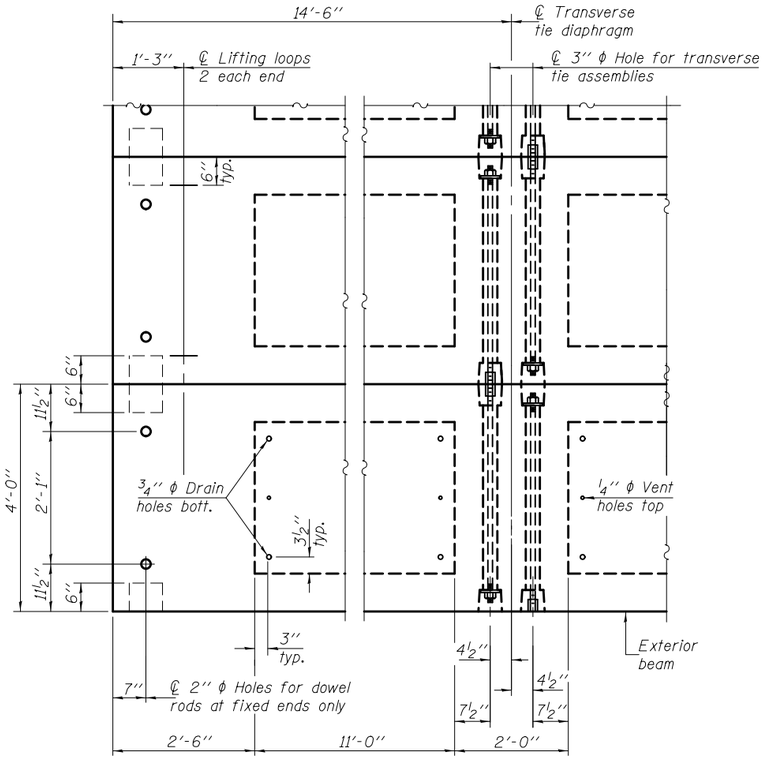
BAR U(E)



BAR A_1(E)

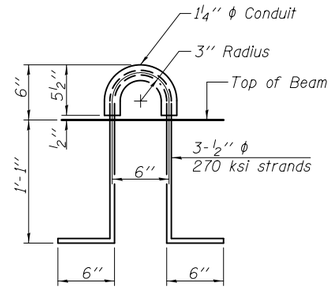


BAR U_1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

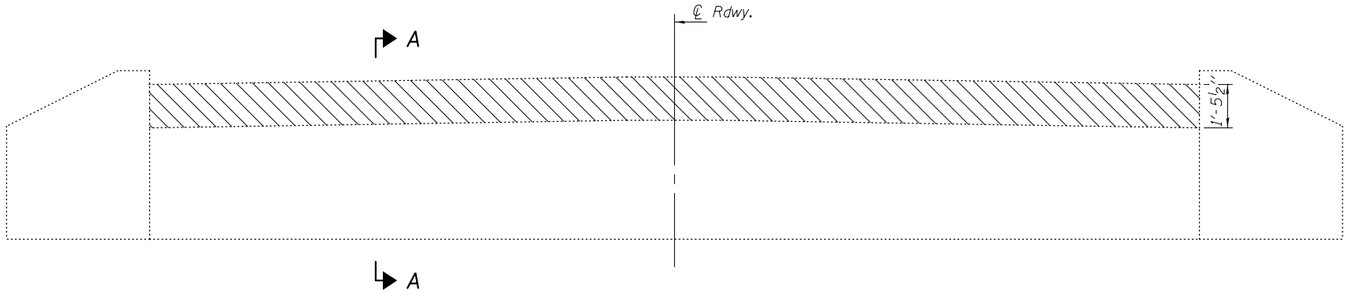
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	580

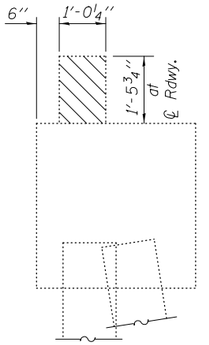
DESIGNED - Fess Tekiehalmanot	EXAMINED	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	17" x 48" PPC DECK BEAM DETAILS (SPAN 2) STRUCTURE NO. 046-0109
CHECKED - Ray Ahanchi	PASSED	REVISED ___		SHEET NO. 15 OF 22 SHEETS
DRAWN - h.t. duong	ACTING ENGINEER OF BRIDGE DESIGN	REVISED ___		
CHECKED - ET/GRA	ACTING ENGINEER OF BRIDGES AND STRUCTURES			

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	31
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

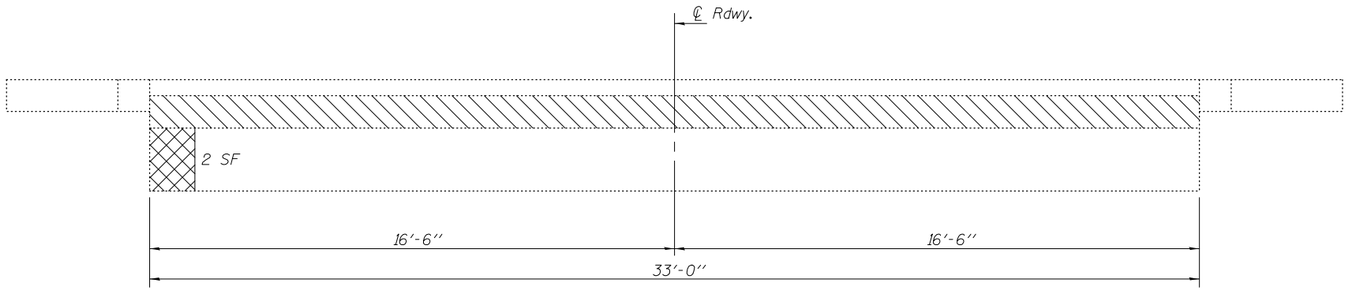


ELEVATION - WEST ABUTMENT

(Looking west - E. Abut. similar)



SECTION A-A



PLAN

LEGEND

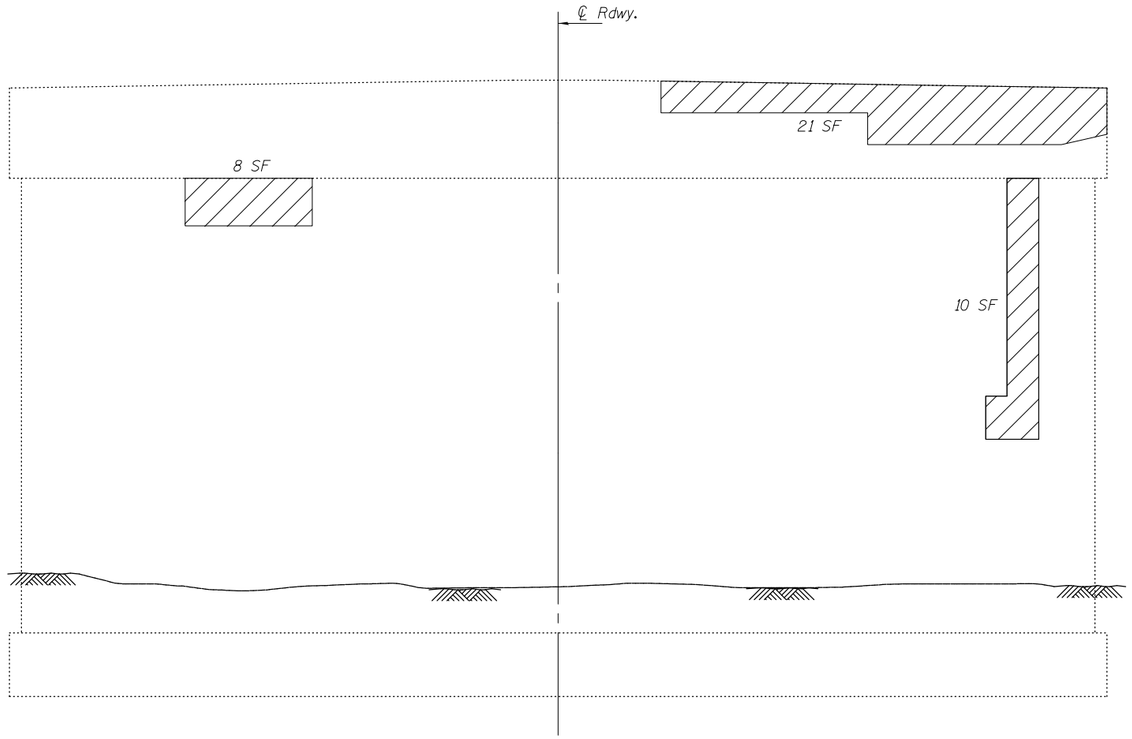
Structural Repair of Concrete
Depth > 5''

Concrete Removal

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth greater than 5 in.)	Sq. Ft.	2.0
Concrete Removal	Cu. Yd.	3.7

DESIGNED - Eass Teklehaimanot	EXAMINED	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL CONCRETE REPAIR & CONCRETE REMOVAL DETAILS STRUCTURE NO. 046-0109	F.A.S. RTE. 1323 · SECTION 102-BR · COUNTY KANKAKEE · TOTAL SHEETS 53 · SHEET NO. 32
CHECKED - Ray Ahanchi					CONTRACT NO. 66B66
DRAWN - h.t. duong	PASSED	REVISED —		SHEET NO. 16 OF 22 SHEETS	ILLINOIS FED. AID PROJECT
CHECKED - ET/GRA	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED —			



PIER 1 ELEVATION (EAST PIER)

West Face

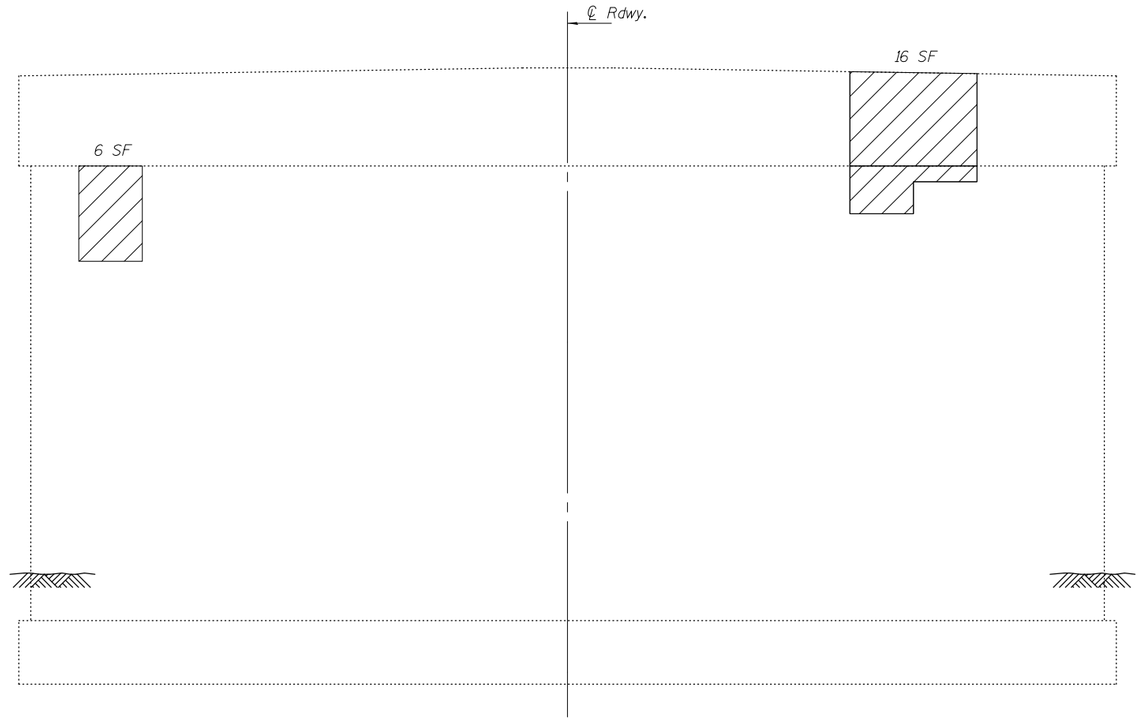
LEGEND

Structural Repair of Concrete
Depth ≤ 5''

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	39.0

DESIGNED - Eass Teklehaimanot	EXAMINED	DATE - OCTOBER 1, 2013	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**STRUCTURAL CONCRETE REPAIR STRUCTURE NO. 046-0109**	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - Ray Ahanchi					1323	102-BR	KANKAKEE	53	33
DRAWN - h.t. duong	PASSED	REVISED					CONTRACT NO. 66B66		
CHECKED - ET/GRA	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 17 OF 22 SHEETS		ILLINOIS	FED. AID PROJECT		



PIER 1 ELEVATION (EAST PIER)

East Face

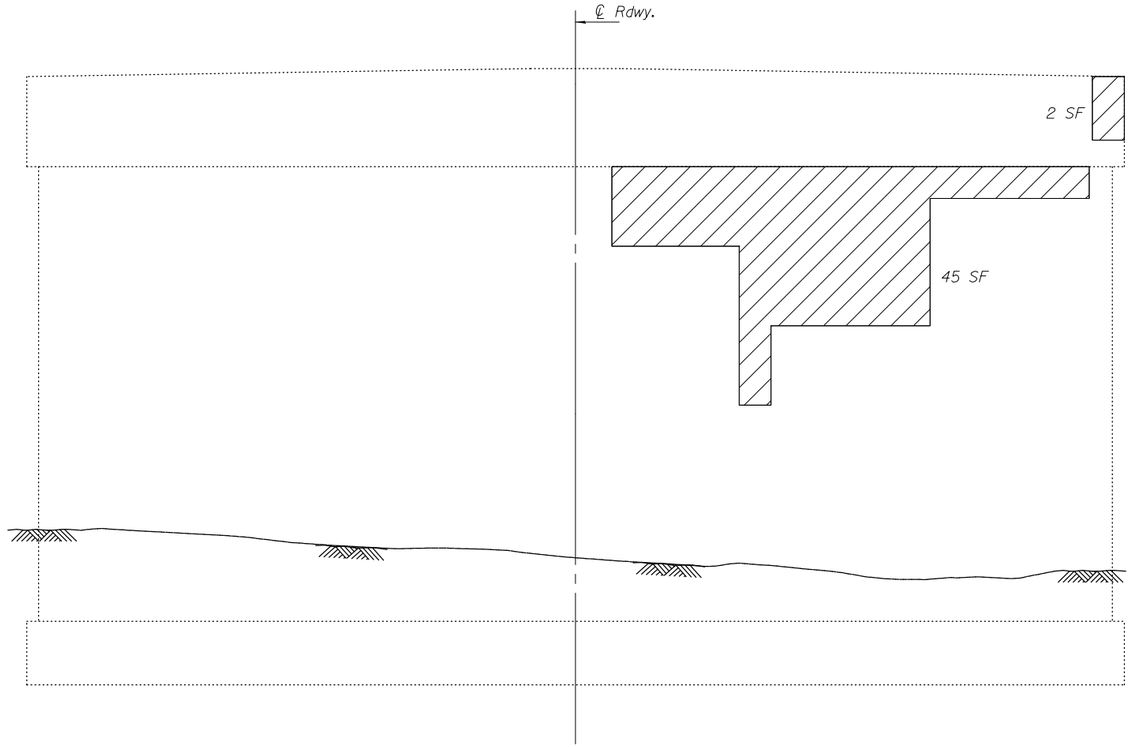
LEGEND

Structural Repair of Concrete
Depth ≤ 5″

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	22.0

DESIGNED - Fess Teklehalmanot	EXAMINED	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL CONCRETE REPAIR STRUCTURE NO. 046-0109	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - Ray Ahanchi					1323	102-BR	KANKAKEE	53	34
DRAWN - h.t. duong	PASSED	REVISED		SHEET NO. 18 OF 22 SHEETS			CONTRACT NO. 66B66		
CHECKED - FT/GRA	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED					ILLINOIS FED. AID PROJECT		



PIER 2 ELEVATION (WEST PIER)

West Face

LEGEND

Structural Repair of Concrete
Depth ≤ 5''

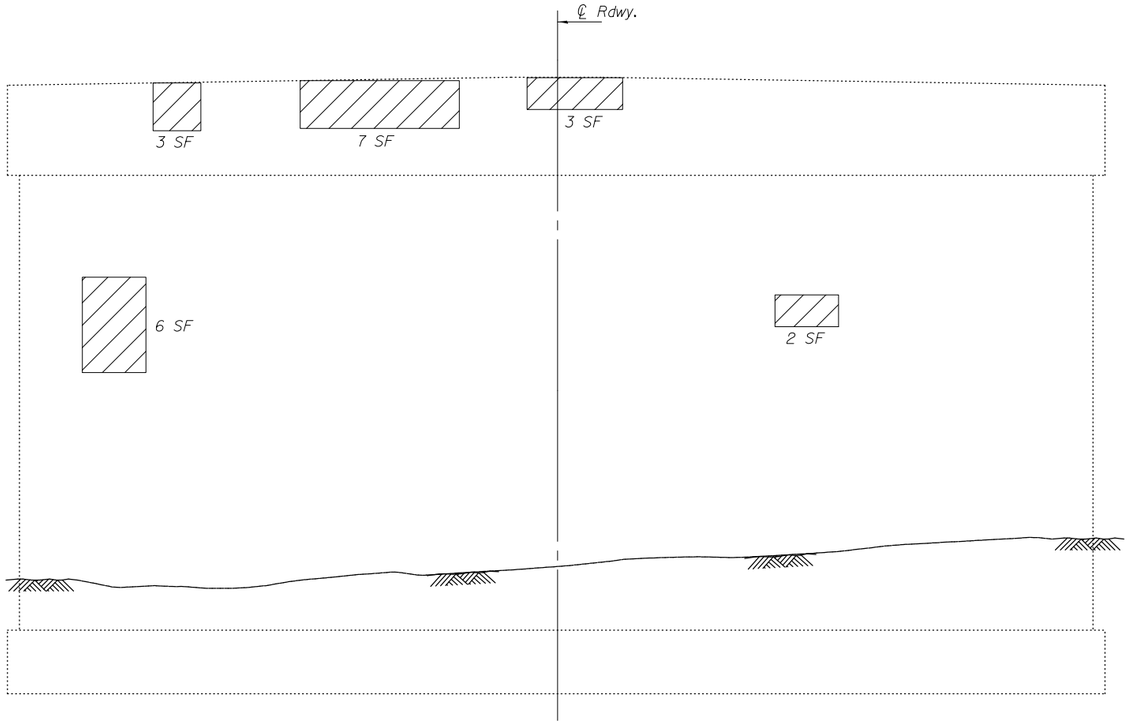
BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	47.0

DESIGNED - Fess Teklehalmanot	EXAMINED	DATE - OCTOBER 1, 2013	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - Ray Ahanchi			
DRAWN - h.t. duong	PASSED	REVISED	
CHECKED - FT/GRA	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

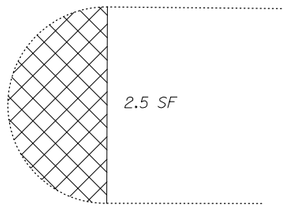
STRUCTURAL CONCRETE REPAIR
STRUCTURE NO. 046-0109
SHEET NO. 19 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	35
		CONTRACT NO. 66B66		
	ILLINOIS	FED. AID PROJECT		



PIER 2 ELEVATION (WEST PIER)

East Face



PIER 2 PLAN (SOUTH PIER CAP)

LEGEND

Structural Repair of Concrete
Depth > 5''

Structural Repair of Concrete
Depth ≤ 5''

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth greater than 5 in.)	Sq. Ft.	2.5
Structural Repair of Concrete (Depth equal to or less than 5 in.)	Sq. Ft.	21.0

DESIGNED - Fess Teklehalmanot	EXAMINED	DATE - OCTOBER 1, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL CONCRETE REPAIR STRUCTURE NO. 046-0109	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - Ray Ahanchi					1323	102-BR	KANKAKEE	53	36
DRAWN - h.t. duong	PASSED	REVISED						CONTRACT NO. 66B66	
CHECKED - FT/GRA		REVISED		SHEET NO. 20 OF 22 SHEETS			ILLINOIS FED. AID PROJECT		

Jayne F. Schlipf
ACTING ENGINEER OF BRIDGE DESIGN
J. Carl Tracy
ACTING ENGINEER OF BRIDGES AND STRUCTURES

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 11/28/79

ROUTE SBI-115 DESCRIPTION State Route 115 over Horse Creek LOGGED BY G. Legan

SECTION 102 BR LONGITUDE _____ LATITUDE _____

COUNTY Kankakee DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 046-0109
Station 603+08

BORING NO. 1 (E. Abut.)
Station 602+40
Offset 11' Rt.
Ground Surface Elev. 101.8 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				DARK BROWN SILTY CLAY LOAM
99.8				
				VERY STIFF-DARK BROWN TO BLACK-SILTY CLAY LOAM (FILL-SOME ORGANIC MAT.)
-5	11	2.2 S	21	
96.3				
				MEDIUM-YELLOW-FINE SAND (WATER AND SOME COARSE SAND PARTICLES AT 8.5')
	10		7	
-10	12		18	
90.3	7		17	
		5.2 S	17	HARD-OLIVE GRAY-SILTY CLAY TILL
	22			
88.8				
				HARD-GRAY-SILTY CLAY TILL
-15	32	6.2 B	15	
		5.8 B	16	
	35			
-20	34	8.2 B	15	

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				HARD-GRAY-SILTY CLAY TILL (continued)
	31	7.4 B	16	
-25	27	5.8 B	15	
	26	5.4 B	18	
-30	23			
71.3				
				DENSE-BROWNISH GRAY-COARSE SAND (WITH FINE GRAVEL AT 32.5)
	35		16	
68.8				
				SOFT-GRAY-SILT
67.8	9		23	
-35	27	2.0 S	15	VERY STIFF-GRAY-SILTY LOAM TILL
64.8	9	2.5 P	14	
	27	5.4 S	14	
				HARD-OLIVE GRAY-SILTY CLAY TILL
-40	34	5.8 B	15	

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. 11-11)

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 11/28/79

ROUTE SBI-115 DESCRIPTION State Route 115 over Horse Creek LOGGED BY G. Legan

SECTION 102 BR LONGITUDE _____ LATITUDE _____

COUNTY Kankakee DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 046-0109
Station 603+08

BORING NO. 1 (E. Abut.)
Station 602+40
Offset 11' Rt.
Ground Surface Elev. 101.8 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				HARD-OLIVE GRAY-SILTY CLAY TILL (continued)
	28	4.7 B	14	
56.8 -45	29	5.8 B	13	
-50				
-55				
-60				

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. 11-11)

DESIGNED - ___	EXAMINED _____ ACTING ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 1, 2013	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SOIL BORING LOGS STRUCTURE NO. 046-0109**	F.A.S. RTE. 1323 / SECTION 102-BR / COUNTY KANKAKEE / TOTAL SHEETS 53 / SHEET NO. 37
CHECKED - ___		REVISED ___		SHEET NO. 21 OF 22 SHEETS	CONTRACT NO. 66B66
DRAWN - ___	PASSED _____ ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED ___			ILLINOIS FED. AID PROJECT
CHECKED - ___					

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 11/29/79

ROUTE SBI-115 DESCRIPTION State Route 115 over Horse Creek LOGGED BY G. Legan

SECTION 102 BR LONGITUDE _____ LATITUDE _____

COUNTY Kankakee DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 046-0109
Station 603+08

BORING NO. 2 (W. Abut.)
Station 603+85
Offset 10' Lt.
Ground Surface Elev. 101.8 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF-DARK BROWN-SILTY CLAY LOAM					32	9.7 B	14
99.8							
STIFF-BROWNISH BLACK SILTY CLAY LOAM (FILL-SOME ORGANIC MAT.)	7	1.3 P	27	HARD-GRAY-SILTY CLAY TILL	33	7.4 B	16
-5				-25			
	3	1.0 P	35		26	6.4 S	17
95.3							
MEDIUM-BROWNISH BLACK SILTY CLAY LOAM	6	1.0 S	35	73.8	14	4.7 B	23
92.8				DENSE-GRAY-COARSE SAND AND FINE GRAVEL 72.8	16		
STIFF-MOTTLED OLIVE GRAY AND REDDISH BROWN SILTY CLAY LOAM	8	1.6 B	23	SOFT-GRAY-SILTY LOAM 71.8 -30	6	1.0 P	23
-10				SOFT-GRAY-SILTY LOAM	28	0.9 S	16
90.3				70.3			
HARD-OLIVE GRAY-SILTY CLAY LOAM TILL	12	4.9 B	19	STIFF-GRAY-SILTY LOAM	20	1.3 P	25
87.8				67.8			
HARD-GRAY-SILTY CLAY TILL (12" PIECES LIMESTONE AT 15.5')	29	9.5 B	13	-35 VERY STIFF-GRAY-SILTY LOAM TILL	22	2.3 B	13
-15				65.3			
	30	7.8 S	14	HARD-DARK GRAY-SILTY CLAY TILL	44	7.8 B	16
-20				-40			

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. 11-11)

Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Date 11/29/79

ROUTE SBI-115 DESCRIPTION State Route 115 over Horse Creek LOGGED BY G. Legan

SECTION 102 BR LONGITUDE _____ LATITUDE _____

COUNTY Kankakee DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 046-0109
Station 603+08

BORING NO. 2 (W. Abut.)
Station 603+85
Offset 10' Lt.
Ground Surface Elev. 101.8 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
HARD-DARK GRAY-SILTY CLAY TILL (continued)		5.6 B	18
	34		
		6.4 S	17
	44		
-45			
	32	6.2 B	18
55.8			
-50			
-55			
-60			

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. 11-11)

DESIGNED - ___	EXAMINED _____ ACTING ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 1, 2013	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - ___			
DRAWN - ___	PASSED _____ ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED ___	
CHECKED - ___		REVISED ___	

SOIL BORING LOGS
STRUCTURE NO. 046-0109
SHEET NO. 22 OF 22 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102-BR	KANKAKEE	53	38
		CONTRACT NO. 66B66		
	ILLINOIS	FED. AID PROJECT		

B.M. [illegible] 30 Rt. Sta 598+70 Elev. 100.00

Existing Structure No. [illegible] built on S.B.I. Rte. 115, Section 2 B in 1927. Single Span R.C. thru girder or reinforced closed abut. Bk. to Bk. = 52'-0" Superstructure width C. to C. 26'-0". Contractor shall remove existing structure as necessary to accommodate proposed structure.

Traffic shall be detoured.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 115	102BR	KANKAKEE	25	11

SHEET NO. 1
7 SHEETS

GENERAL NOTES

See Proposal for Boring Data.

All structural steel shall be shop painted with two coats of basic lead silico chromate paint.

The contractor shall drive 1 (one) concrete test pile in a permanent location at East Abutment as directed by the Engineer before ordering the remainder of piles.

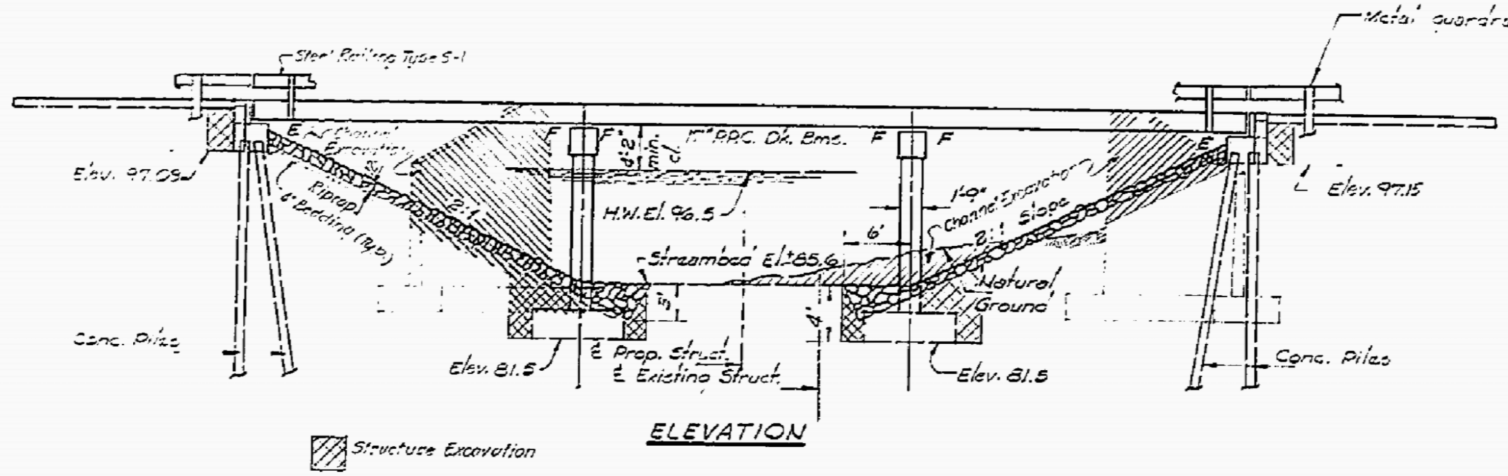
The top surface of the beams shall be finished in accordance with Article 503.16 of the Standard Specification except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of ¼".

The embankment configuration shown shall be the minimum embankment that must be constructed prior the construction of the abutments.

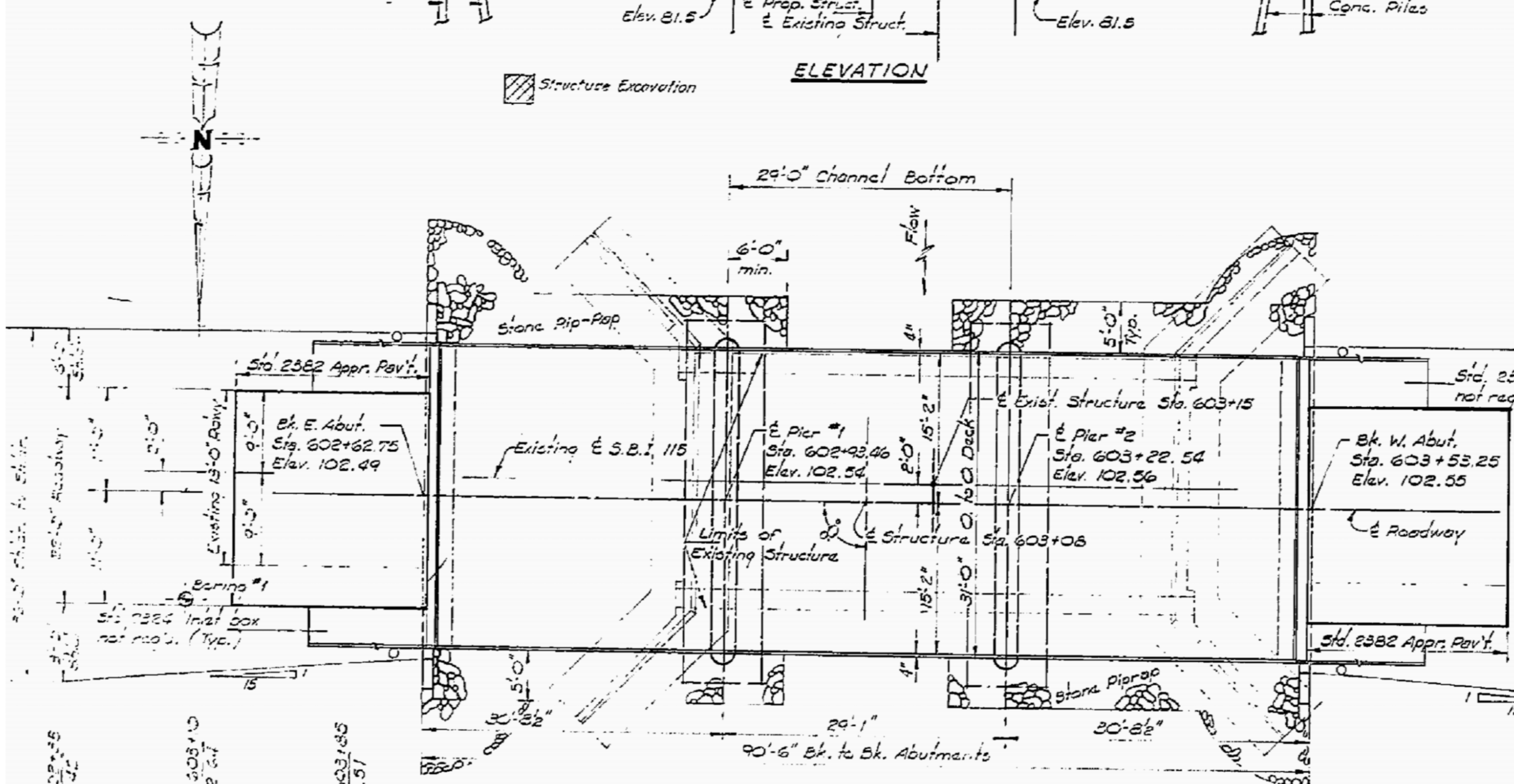
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of structural steel.

A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.



ELEVATION



PLAN

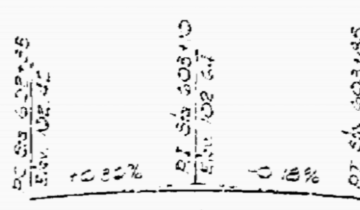
STATION 603+08
BUILT 198 BY
STATE OF ILLINOIS
S.B.I. RT. 115 SEC. 102 BR
LOADING HS 20
*STR. NO.

NAME PLATE

(See Std. 2113)
* To be supplied by District

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Channel Excavation	Cu.Yd.		650	650
Bituminous Conc Surf. Cse. Cl. I	Ton	24		24
Removal of Existing Structures	Each			1
Structure Excavation	Cu.Yd.		160	160
Class X Concrete	Cu.Yd.	1.4	145.4	146.8
P.P.C. Deck Beams (17")	Sq.Ft.	2697		2697
Structural Steel	Pound	4,390		4,390
Steel Railing Type S-1	Lin.Ft	174		174
Reinforcement Bars	Pound	190	10570	10760
Concrete Piles	Lin.Ft.		367	367
Test Piles (Concrete)	Each		1	1
Name Plates	Each			1
Stone Riprap	Sq.Yd.		370	370
Preformed Joint Seal (2½")	Lin.Ft.	63		63
Portland Cement Mortar Fairing Course	Lin.Ft.	683		683
Waterproofing Membrane System	Sq.Yd.	303		303



PROFILE GRADE S.B.I. Rte. 115

WATERWAY INFORMATION

Drainage Area 18.0 sq.mi. Low Grade Elev. 101.5' @ Sta.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft. Exist.	Opening Sq.Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	2023	408	514	96.5'	0.14	0.08	96.64	96.58
Base	100	2316	428	542	96.9'	0.22	0.12	97.12	97.02
	—	—	—	—	—	—	—	—	—
Max. Calc.	500	2991	463	593	97.6'	0.35	0.20	97.95	97.8

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi   fs = 20,000 psi (Struct.)
fy = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

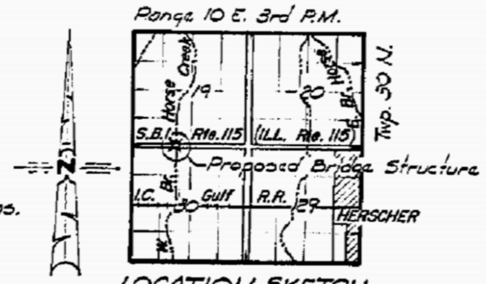
f'c = 5,000 psi   f'ci = 4,000 psi
f's = 270,000 psi (½" ø Strands)
fsi = 189,000 psi (½" ø Strands)

LOADING HS 20-44

Allow 25#/sq.ft. future wearing surface.

Design Specifications: 1977 AASHTO, 1978, 1979 and 1980 Interim Specifications.

Range 10 E. 3rd P.M.



LOCATION SKETCH

GENERAL PLAN
S.B.I. Rte. 115 Over West Branch of Horse Cr.
S.B.I. Rte. 115 SECTION 102 BR
KANKAKEE COUNTY
Sta. 603+08

DESIGNED [signature]
CHECKED Dale F. Schaub
DRAWN [signature]
CHECKED D.F.S.

EXAMINED June 22 1980
PASSED
APPROVED

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -
		CHECKED -	REVISED -
	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

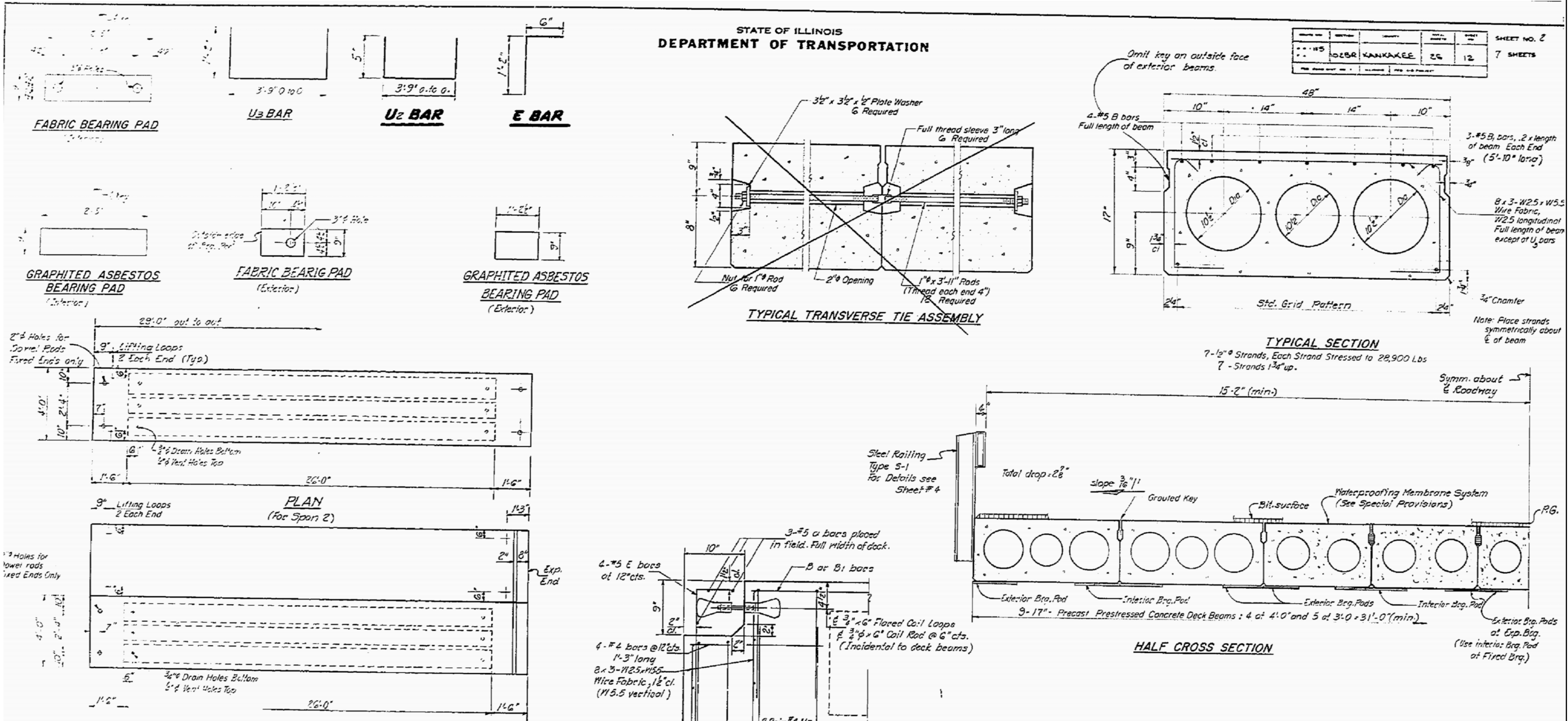
FOR INFORMATION ONLY
EXISTING STRUCTURE

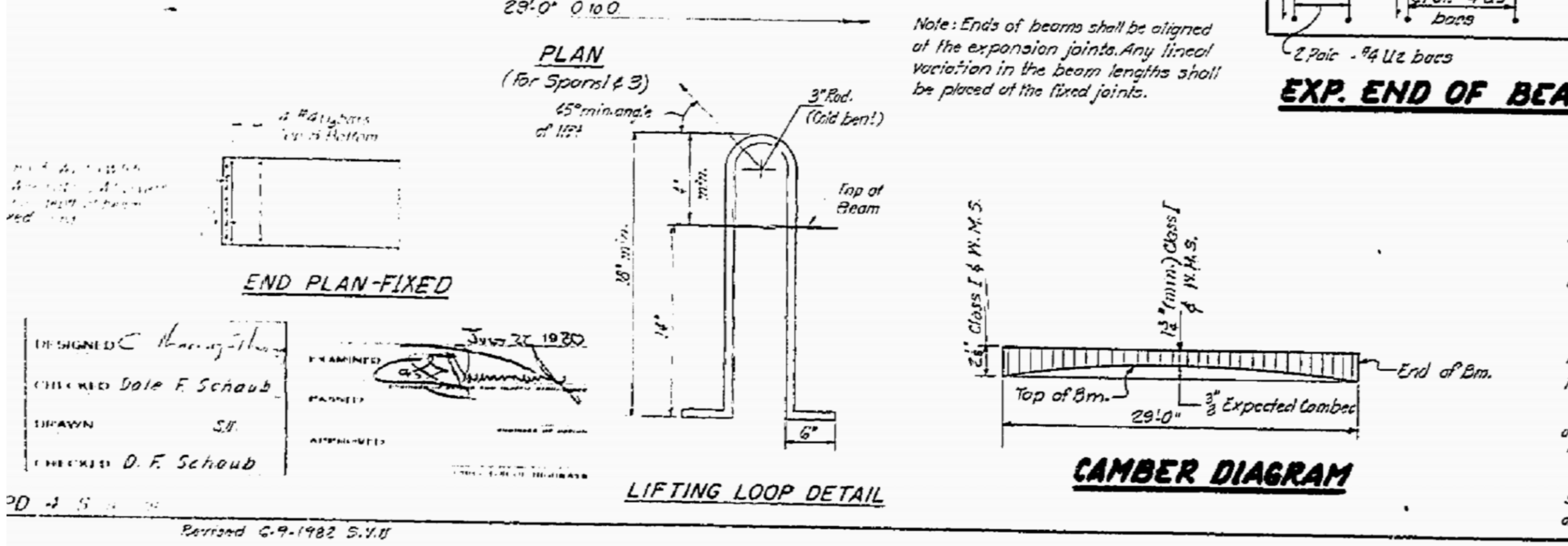
SCALE: | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	39

CONTRACT NO. 66B66

ILLINOIS FED. AID PROJECT





NOTES

Prestressing steel shall be non-galvanized high strength, stress relieved 7 wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq in.

Lifting loops shall be ½" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs or 2-½"φ 270 ksi strands as shown.

~~The 1"φ rods in the transverse tie assembly shall be tightened to a snug fit and the threads cut. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.~~

After beams have been erected, holes for the dowel anchors shall be drilled into the substructure and the anchor dowels shall be grouted in place and allowed to cure prior to grouting the shear keys.

Reinforcement bars shall conform to AASHTO M-31 or M 53, Grade 60.

The bearing surfaces shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

BILL OF MATERIAL

Bar	No	Size	Length	Shape
a	6	#5	31'-0"	

Precast Prestressed Concrete Deck Beams (17" x 48")	Sq Ft	1,392
Class X Concrete	Cu. Yd.	1.4
Reinforcement Bars	Pound	190

SUPERSTRUCTURE
S.B.I. RT. 115 SEC. 102 BR
KANKAKEE COUNTY
STA. 603+08.00

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	PLOT DATE = 8/12/2013	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
EXISTING STRUCTURE

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	40

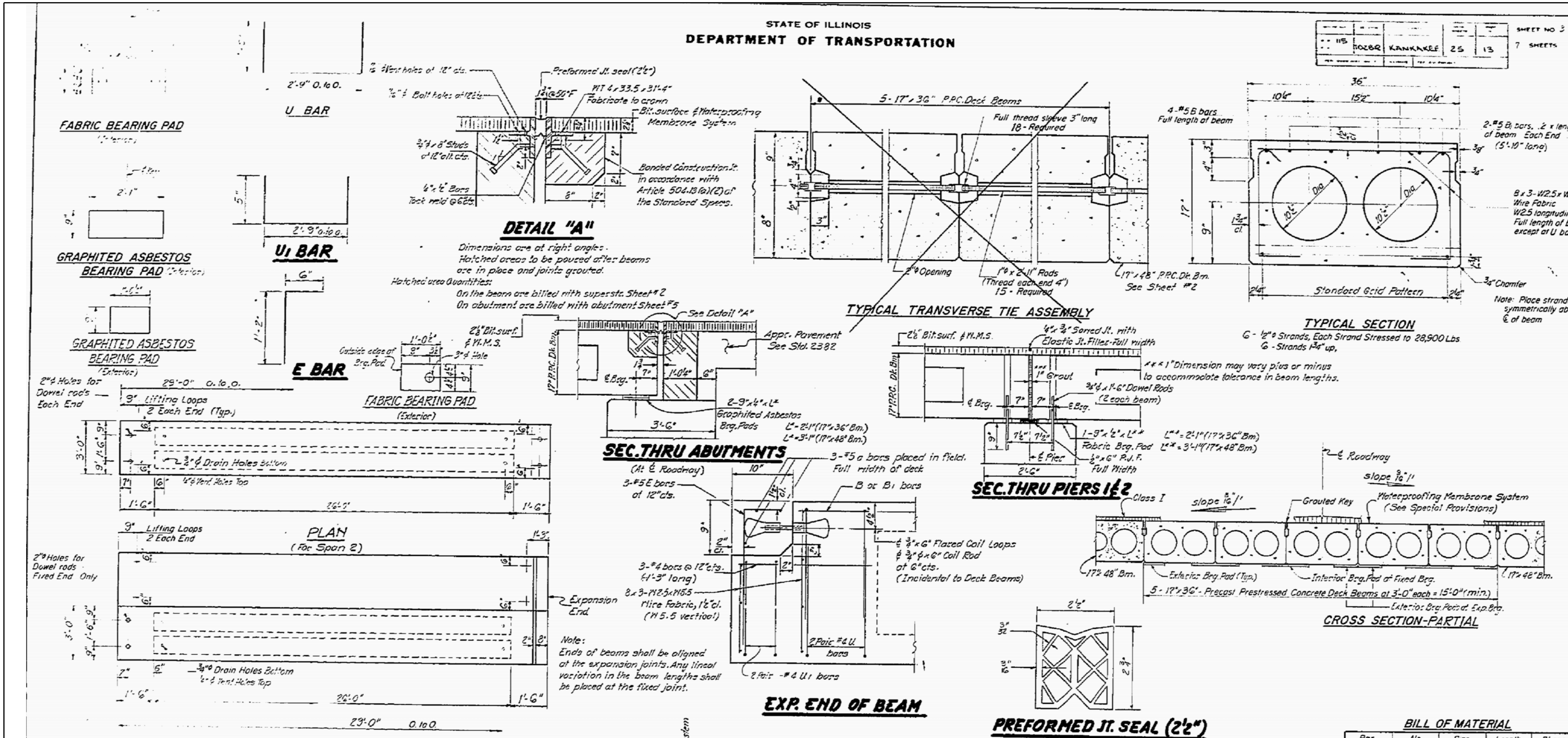
CONTRACT NO. 66B66

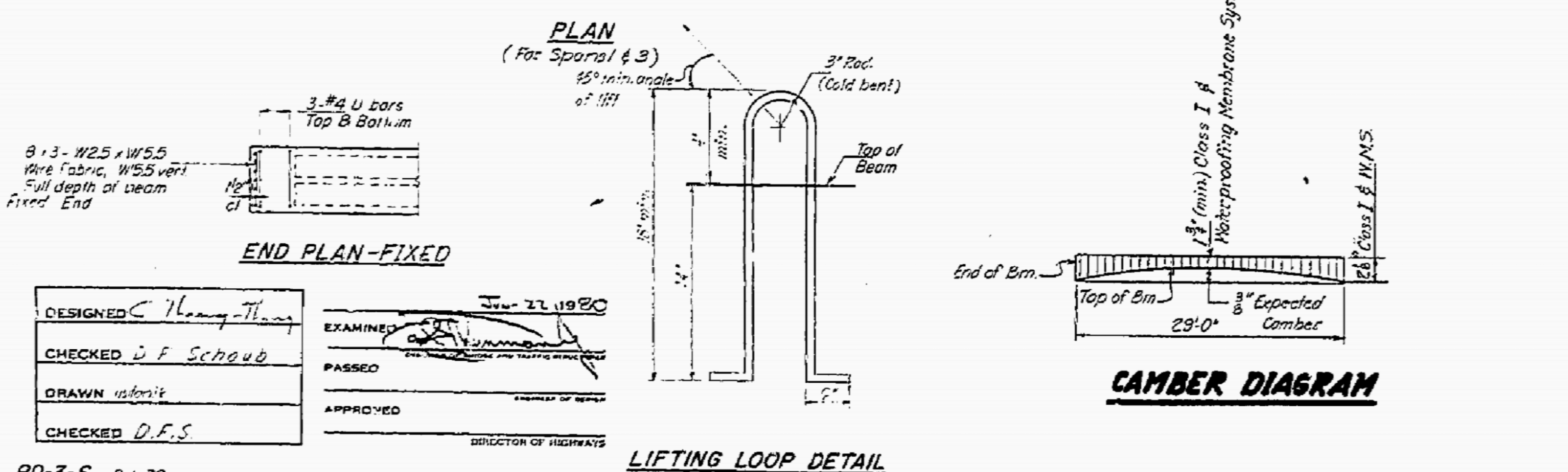
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

115	102BR	KANKAKEE	25	13

SHEET NO. 3
7 SHEETS





NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Lifting loops shall be ½" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs. or 2-½"⌀ 270 ksi strands as shown.

~~The 1"⌀ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.~~

After beams have been erected, holes for the dowel anchors shall be drilled into the substructure and the anchor dowels shall be grouted in place and allowed to cure prior to grouting the shear keys.

Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60.

The bearing seat surface shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims, of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

BILL OF MATERIAL

Bar	No	Size	Length	Shape
Precast Prestressed Concrete Deck Beams (17"x36")		Sq. Ft.	1,305	

SUPERSTRUCTURE
S.B.I. RT. 115 SEC. 102BR
KANKAKEE COUNTY
STA. 603+08.00

DESIGNED	C. Hwang-Thong
CHECKED	D. F. Schaub
DRAWN	Hafenrit
CHECKED	D. F. S.

Jun. 22 1980
EXAMINED
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

PD-3-S 8-1-78
Revised 0-9-1982 TKH

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
EXISTING STRUCTURE

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

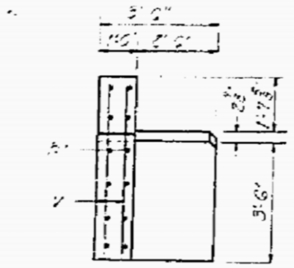
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	41

CONTRACT NO. 66B66
ILLINOIS FED. AID PROJECT

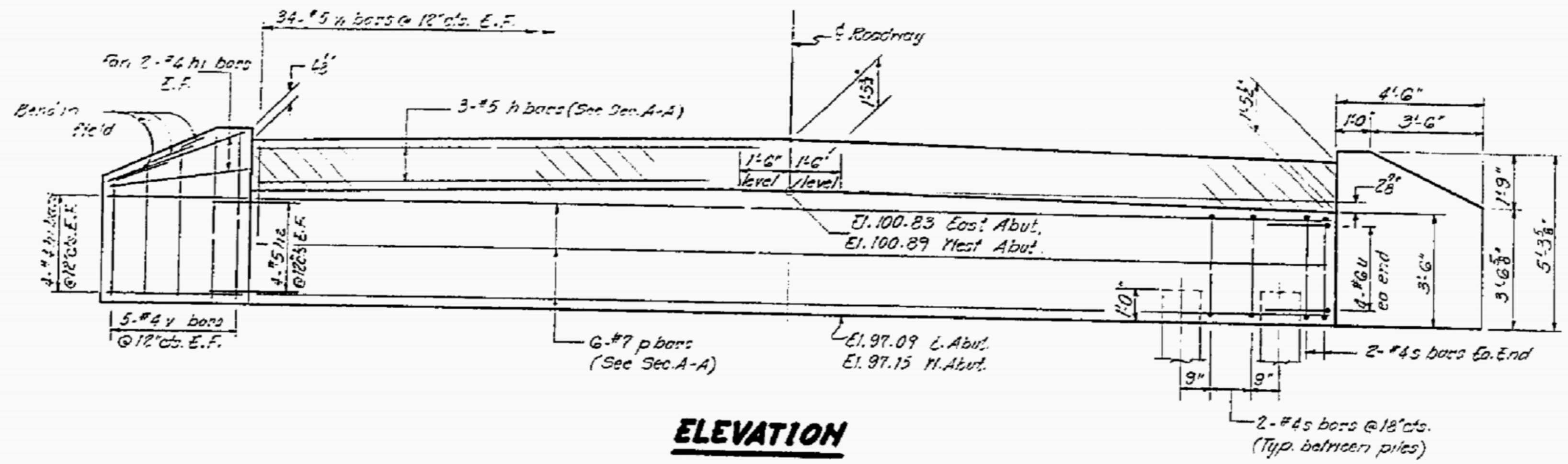
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 115	102BR	KANKAKEE	25	15

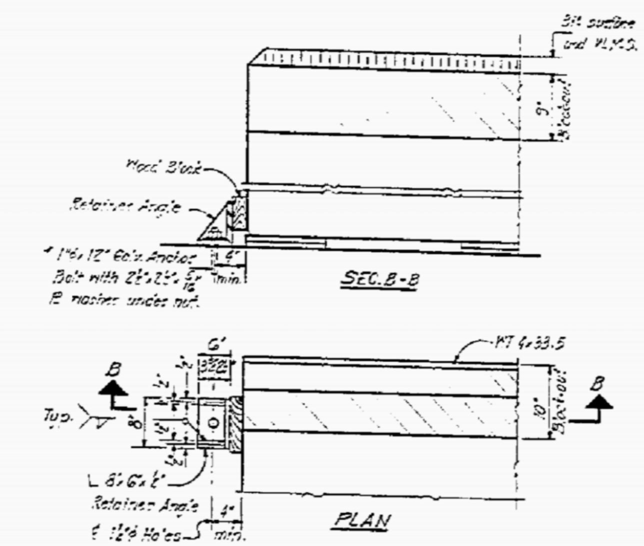
SHEET NO. 5
7 SHEETS



END VIEW



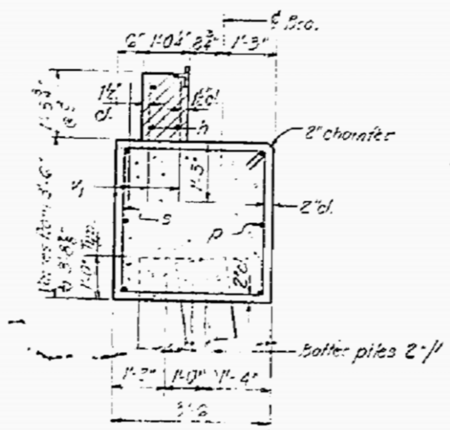
ELEVATION



RETAINER ANGLE AT EXPANSION JT.

* Anchor bolts may be cast into the masonry or placed in drilled holes and grouted in place. Cost including Retainer Angle and Accessories Incidental to Beams.

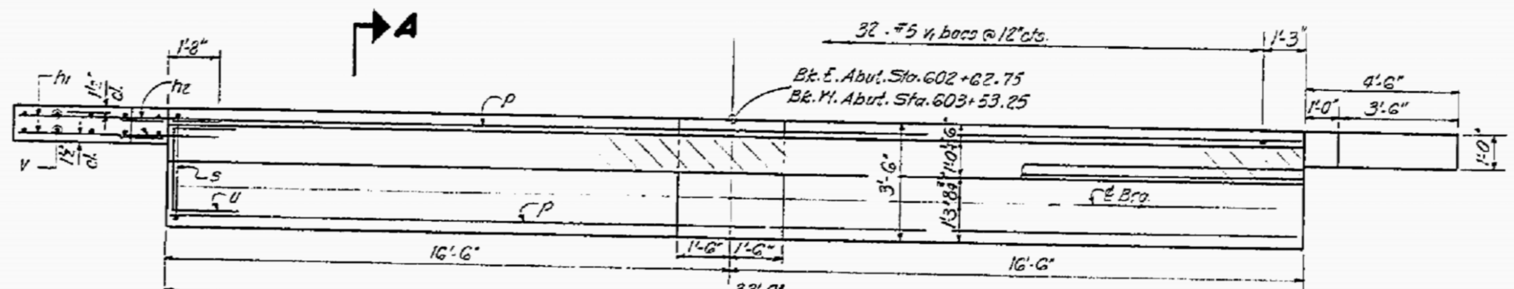
Note: After block-outs are poured and cured the retainer angles shall be removed. Anchor bolts may be left in place.



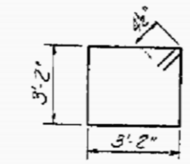
SEC. A-A

PILE DATA

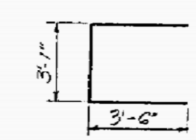
Type: Concrete
Capacity: 30 Tons
Est. Length: 18'-0" East Abut.
17'-0" West Abut.
No. Required: East Abut. 10 plus 1 test pile
West Abut. 11.



PLAN



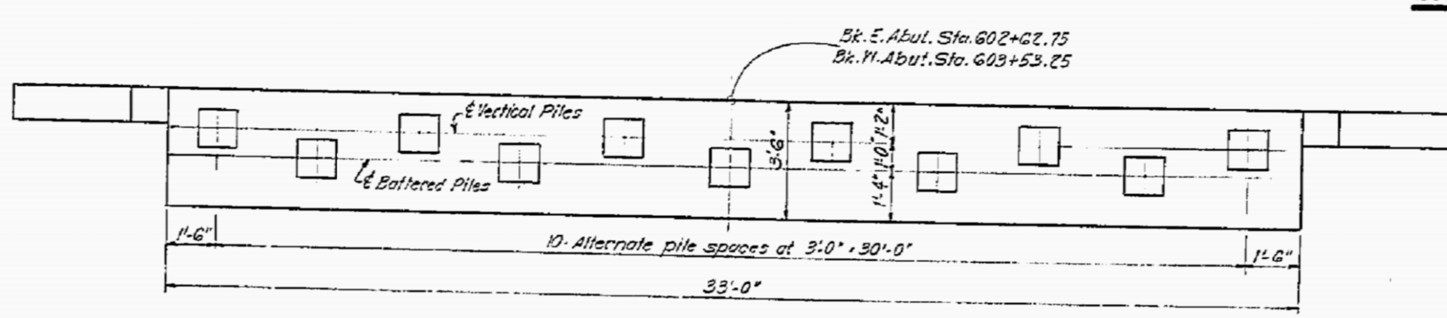
BAR s



BAR u

TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	6	#5	32'-9"	——
h1	48	#4	4'-3"	——
h2	32	#5	3'-5"	——
p	12	#7	32'-9"	——
s	48	#4	13'-5	◻
u	16	#6	10'-1"	⊏
v	40	#4	5'-0"	——
v1	200	#5	2'-6"	——
Class X Concrete			Cu. Yd.	36.7
Reinforcement Bars			Pound	2580
Concrete Piles			Lin. Ft.	367
Test Pile (Concrete)			Each	1



PILE LAYOUT

Notes:
Hatched area shall be poured after beams are in place.
All edges shall have standard ¾" chamfers except as noted.

DESIGNED	[signature]
CHECKED	D.F. Schaub
DRAWN	[illegible]
CHECKED	D.F.S.

EXAMINED [signature] June 22 1960
PASSED
APPROVED

ABUTMENTS
S.B.I. RT. 115 SEC. 102 BR
KANKAKEE CO.
STA. 603+08.00

FILE NAME =	USER NAME = duncanbd	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
EXISTING STRUCTURE

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	42

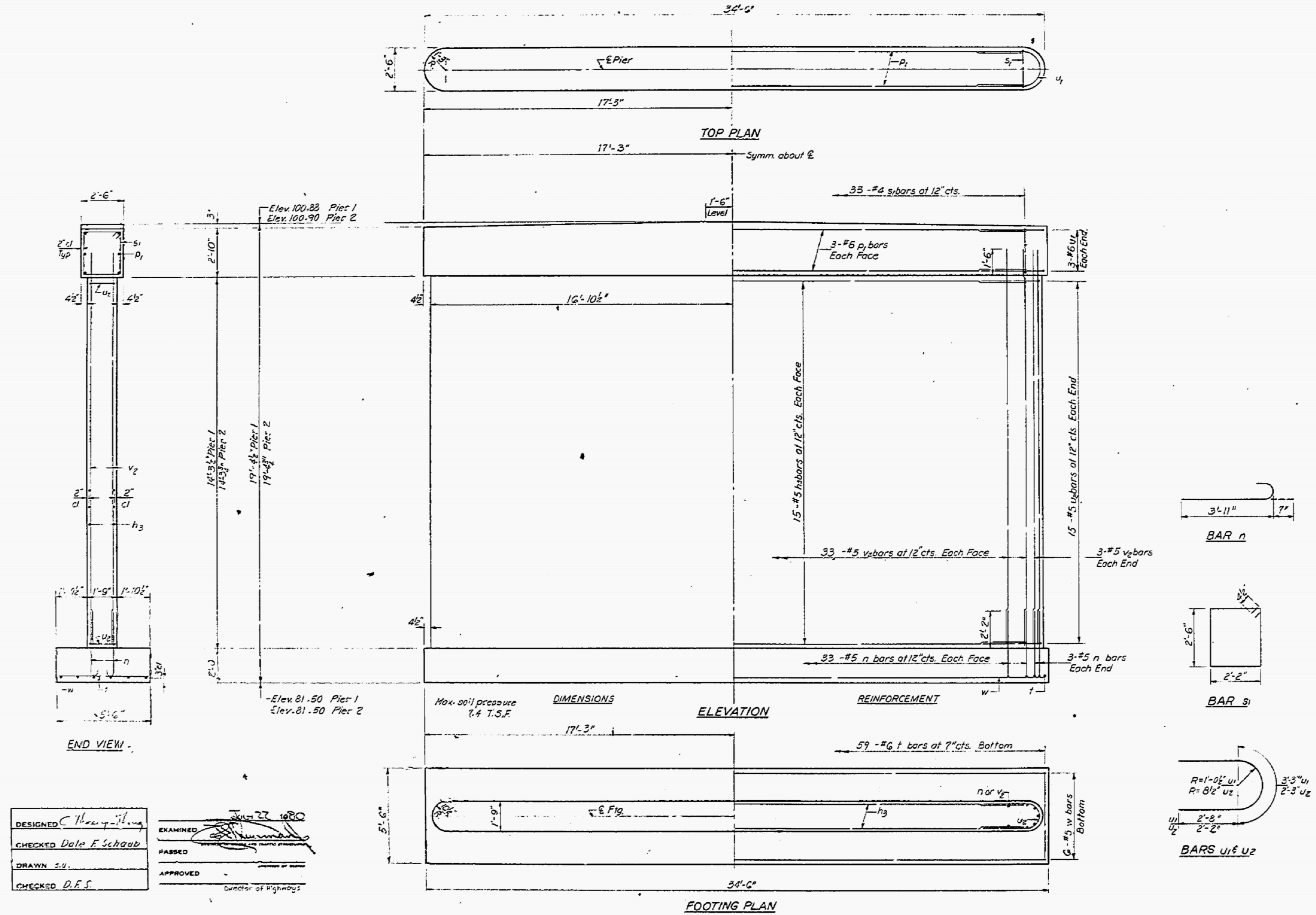
CONTRACT NO. 66B66
ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

S.B.I. 115	102BR	KANKAKEE	25	16

SHEET NO. 6
7 SHEETS

NOTE
All edges shall have standard 3/4" chamfer.



TWO PIERS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3	60	#5	31'-9"	—
n	144	#5	4'-6"	⊃
p1	12	#6	32'-0"	—
s1	66	#4	10'-1"	□
t	118	#6	5'-3	—
u1	12	#6	8'-7"	⊃
u2	60	#5	6'-7"	⊃
v2	144	#5	15'-10"	—
w	12	#5	34'-3"	—
Class X Concrete			Cu. Yds.	108.7
Reinforcement Bars			Lbs.	7990

PIERS 1 AND 2
S.B.I. RT. 115 SEC. 102 BR
KANKAKEE CO.
STA. 603+08.00

FILE NAME = c:\pw_work\pwidot\duncanbd\dms68355\EP04404-sht-FIO.dgn	USER NAME = duncanbd	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
EXISTING STRUCTURE

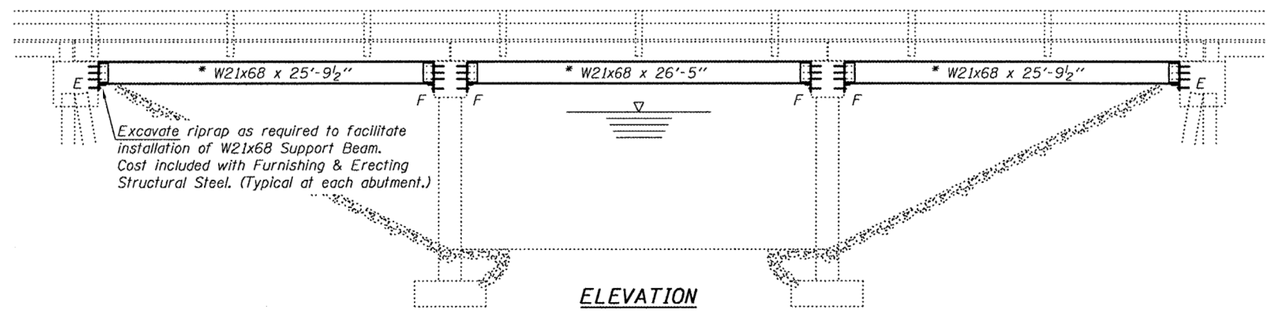
SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	43

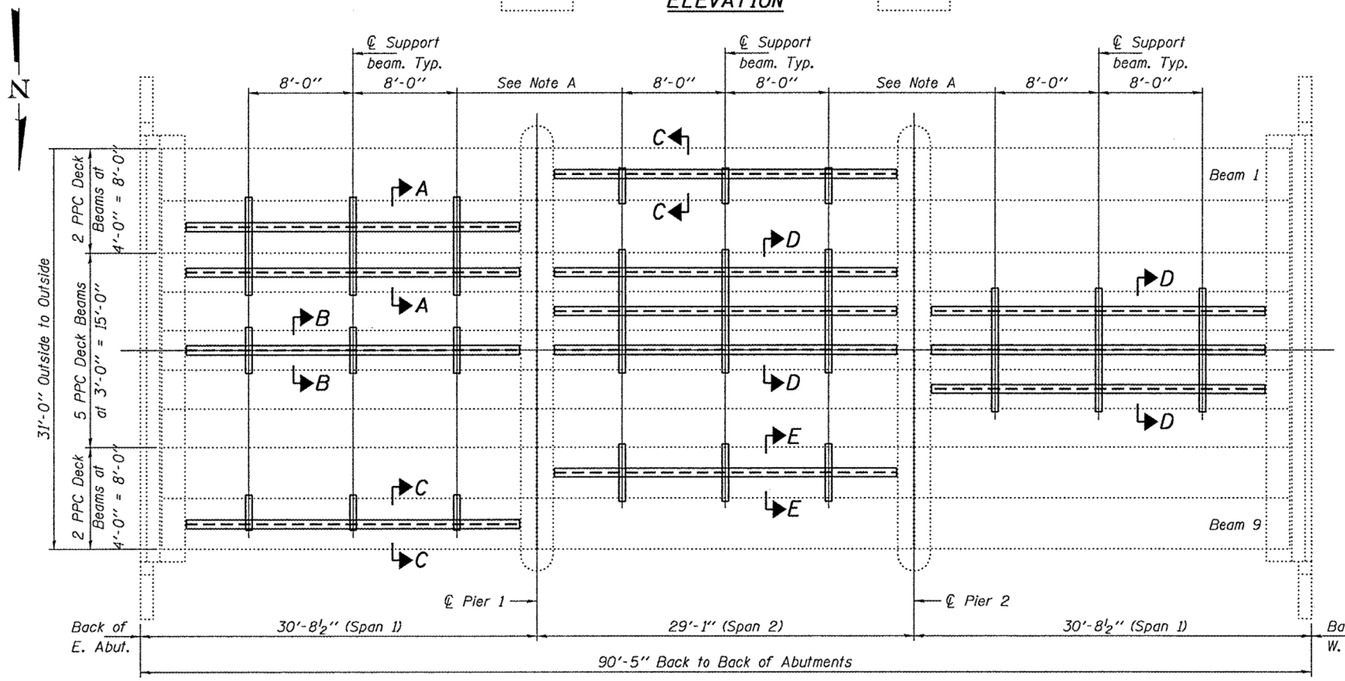
CONTRACT NO. 66B66
ILLINOIS FED. AID PROJECT

* 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. (Min. Sx = 140 in^3)

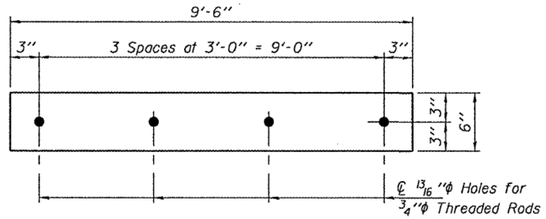
Note A:
℄ Transverse tie ℄'s (3 per span). Place additional shims at midpoints between tie ℄'s. Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.



ELEVATION



PLAN



TRANSVERSE TIE ℄ D
℄ ½" x 9'-6" x 6" (6 Req'd)

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.

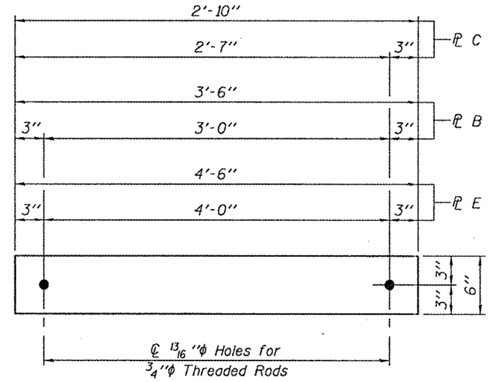
The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures.

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

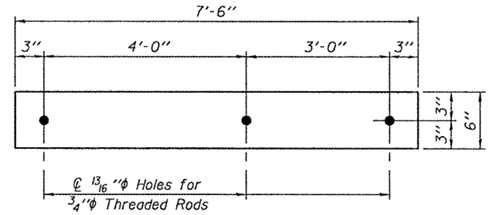
If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying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

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

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



TRANSVERSE TIE ℄'S B, C & E
℄ B ½" x 3'-6" x 6" (3 Req'd)
℄ C ½" x 2'-10" x 6" (6 Req'd)
℄ E ½" x 4'-6" x 6" (3 Req'd)



TRANSVERSE TIE ℄ A
℄ ½" x 7-6" x 6" (3 Req'd)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing and Erecting Structural Steel	Pound	29680

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD
ILLINOIS
STATE OF ILLINOIS

EXPIRES 11-30-2012

DESIGNED	Adnan T. Halloway	EXAMINED	
CHECKED		PASSED	
DRAWN	baliva	DATE	APRIL 6, 2011
CHECKED	ATH		

ACTING ENGINEER OF STRUCTURAL SERVICES
ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS
FAS 1323 OVER WEST BRANCH OF HORSE CREEK
SN 046-0109
SHEET NO. 1 OF 2 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	(102BR)I	KANKAKEE	7	6
		CONTRACT NO. 66B34		
	ILLINOIS FED. AID PROJECT			

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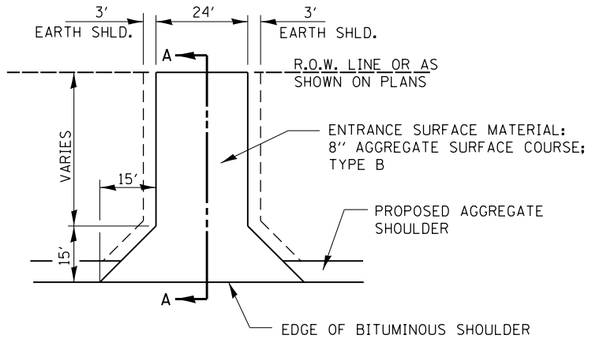
	PLOT DATE = 8/12/2013	CHECKED -	REVISED -
		DATE -	REVISED -

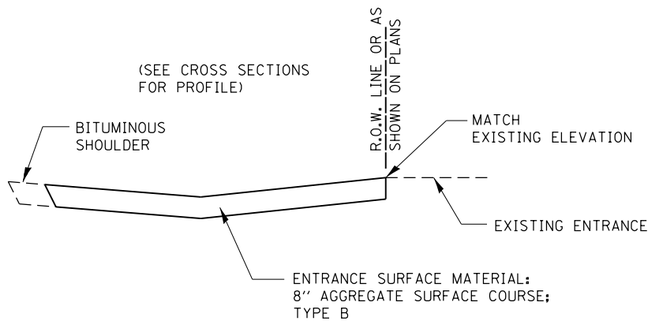
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
EXISTING STRUCTURE

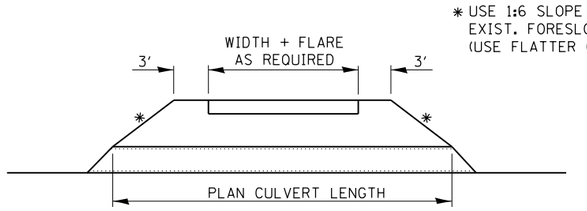
SCALE: | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	44
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

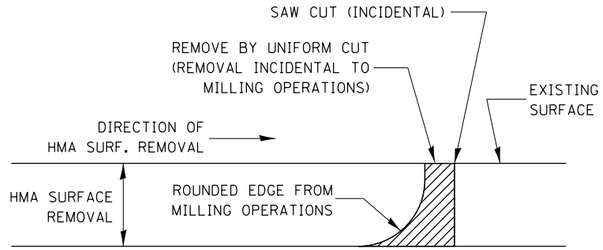




SECTION A–A

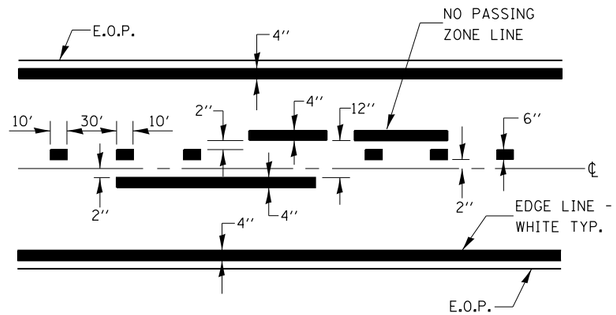


FIELD ENTRANCE DETAIL



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



(SEE TYPICAL SECTIONS)

PAVEMENT MARKING

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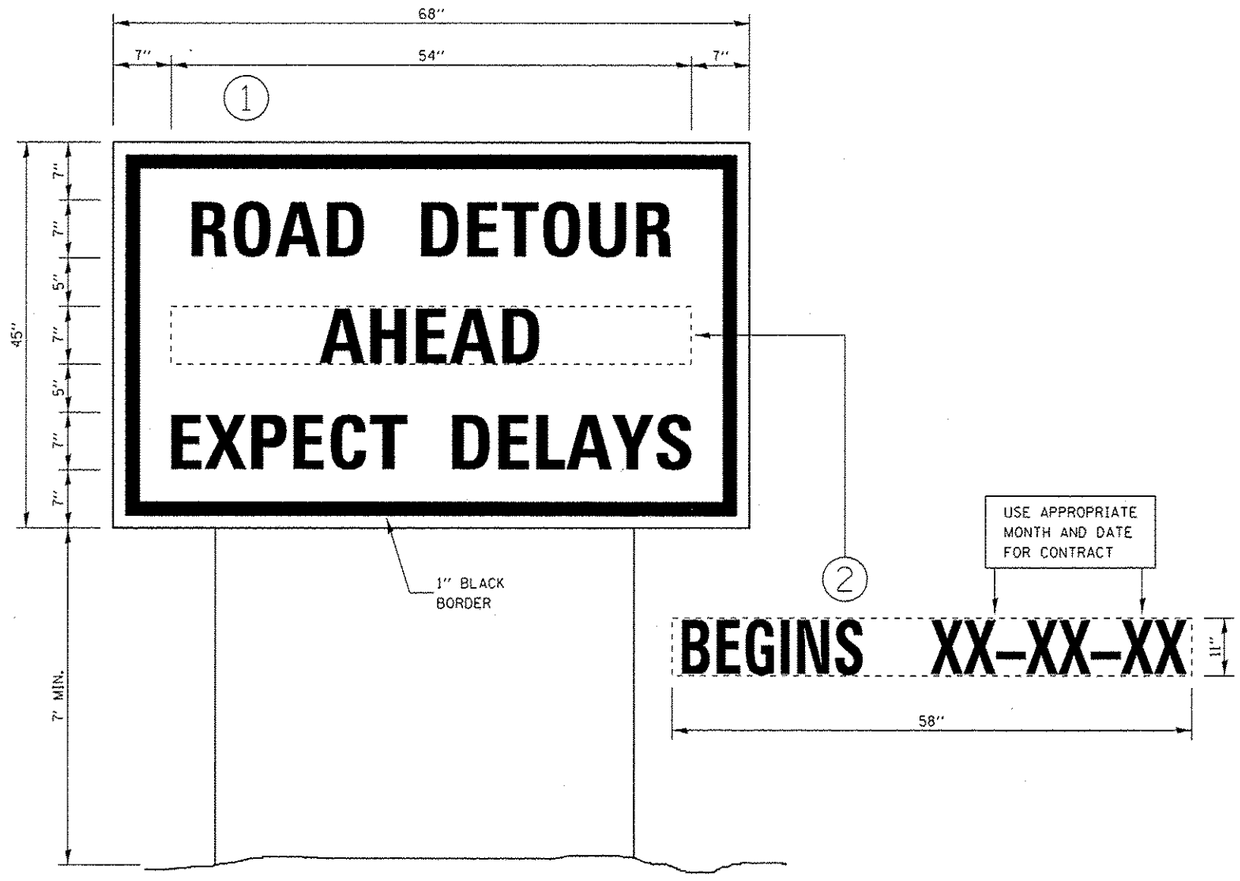
	DRAWN -	REVISED -				1323	102 BR	KANKAKEE	53	45
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -					CONTRACT NO. 66B66		
	PLOT DATE = 8/12/2013	DATE -	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



TEMPORARY INFORMATION SIGN

NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) A MINIMUM OF ONE WEEK PRIOR TO THE START OF DETOUR.
4. REMOVE PANEL (2) ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGN" FOR ADDITIONAL INFORMATION.

6.SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR TEMPORARY INFORMATION SIGN. INSTALLED SIGN PANEL 2 SHALL NOT BE MEASURED SEPERATELY BUT SHALL BE CONSIDERED INCLUDED IN THE SQUARE FOOTAGE OF SIGN 1.

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		DRAWN -	REVISED -
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	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

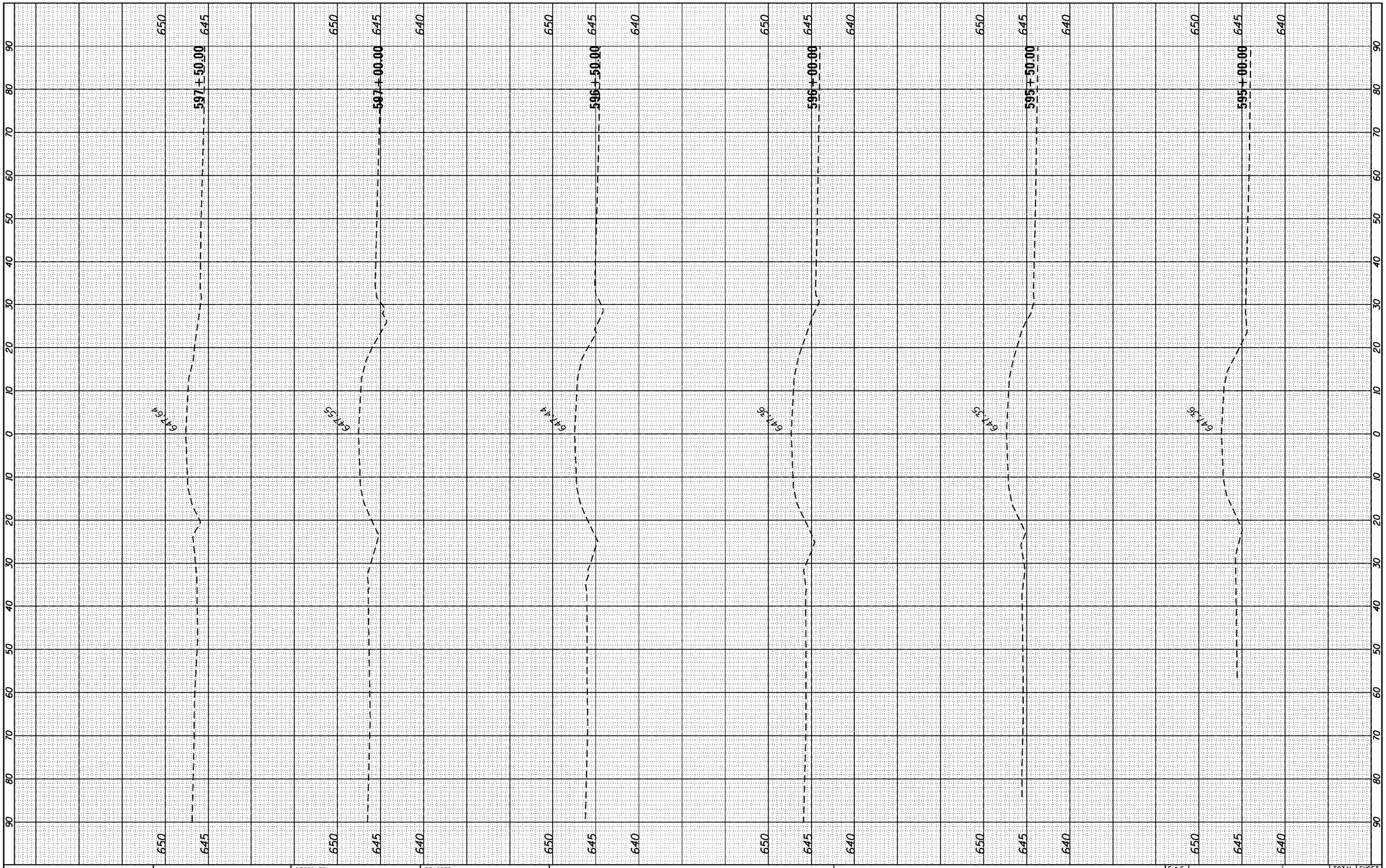
DETAILS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	46
		CONTRACT NO. 66866		
		ILLINOIS FED. AID PROJECT		

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

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



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Default	PLOT DATE = 8/12/2013	DATE -	REVISED -

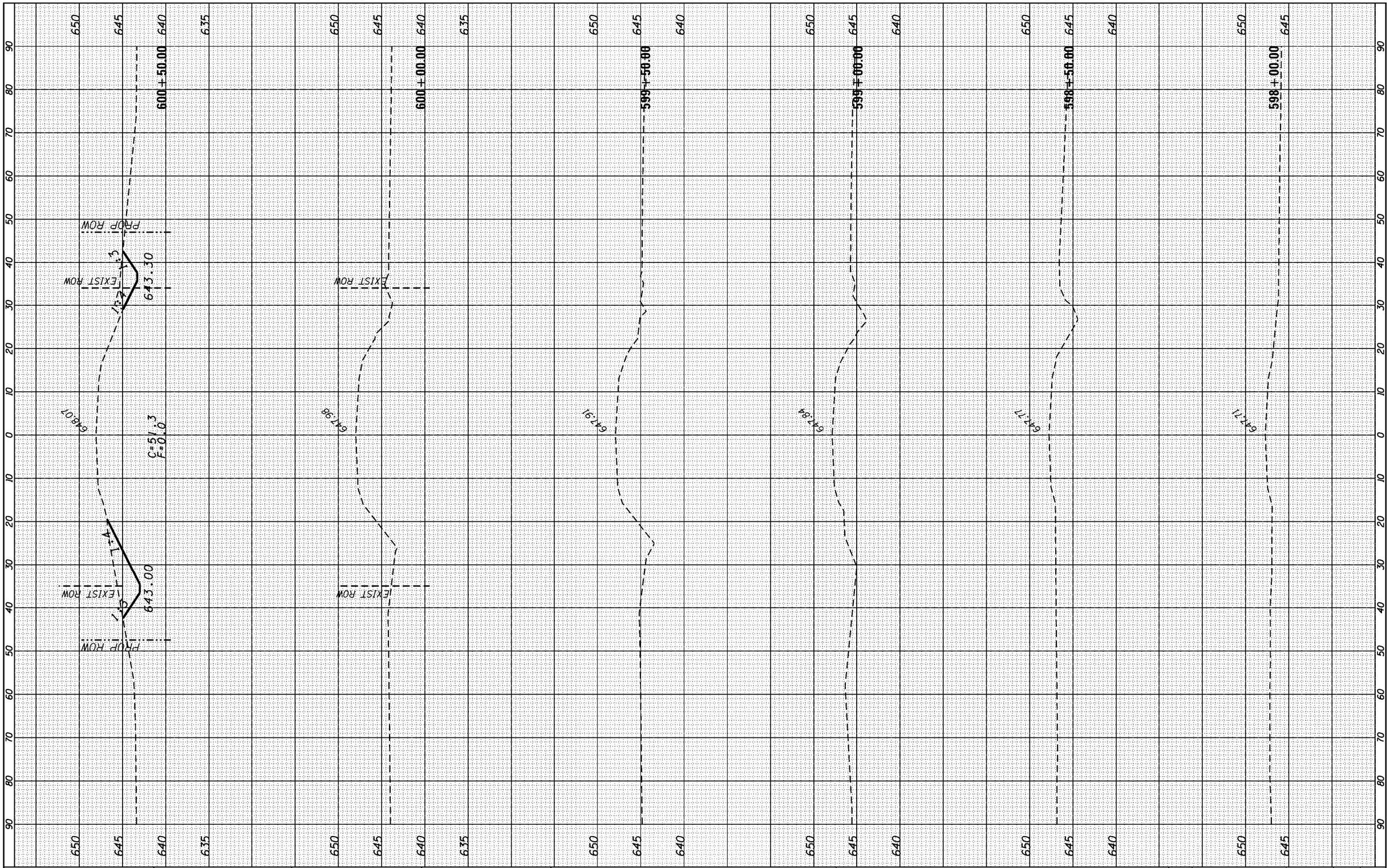
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET OF SHEETS | STA. 595+00.00 TO STA. 597+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	47
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

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

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



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Default	PLOT DATE = 8/12/2013	DATE -	REVISED -

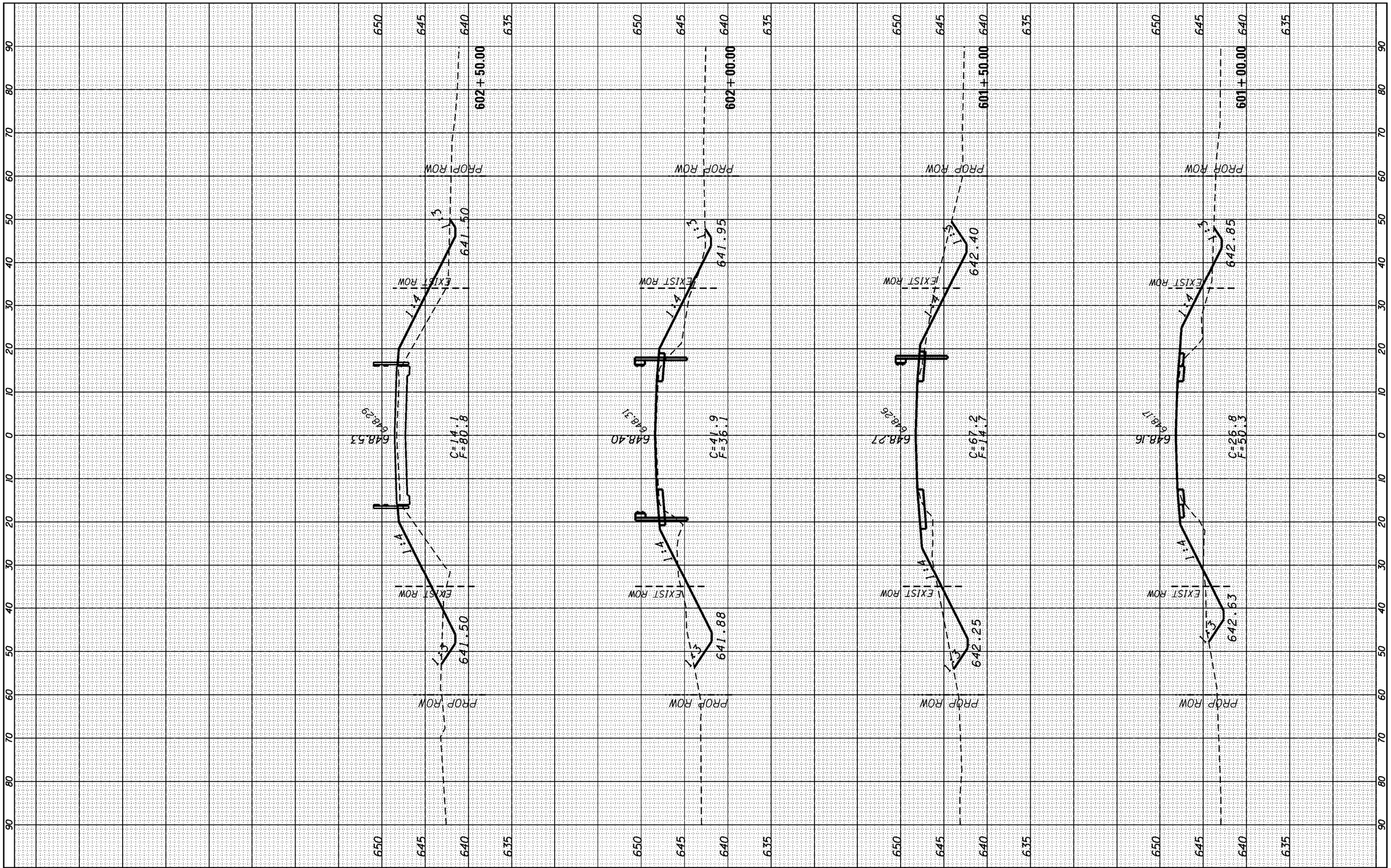
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET OF SHEETS | STA. 598+00.00 TO STA. 600+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	48
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

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

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET OF SHEETS | STA. 601+00.00 TO STA. 602+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	49
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

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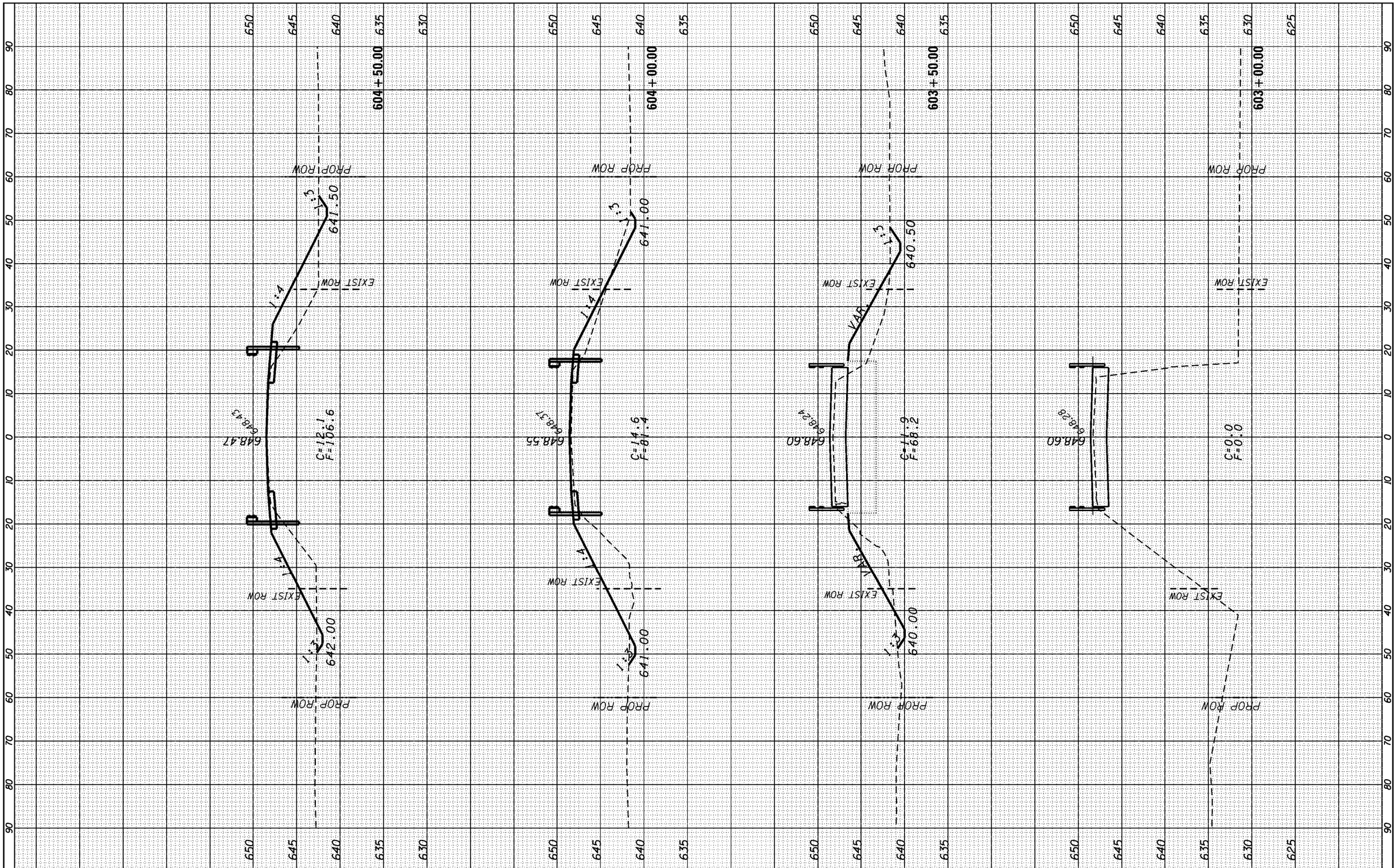
	AREAS CHECKED		



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	PLOT DATE = 8/12/2013	DATE -	REVISED -

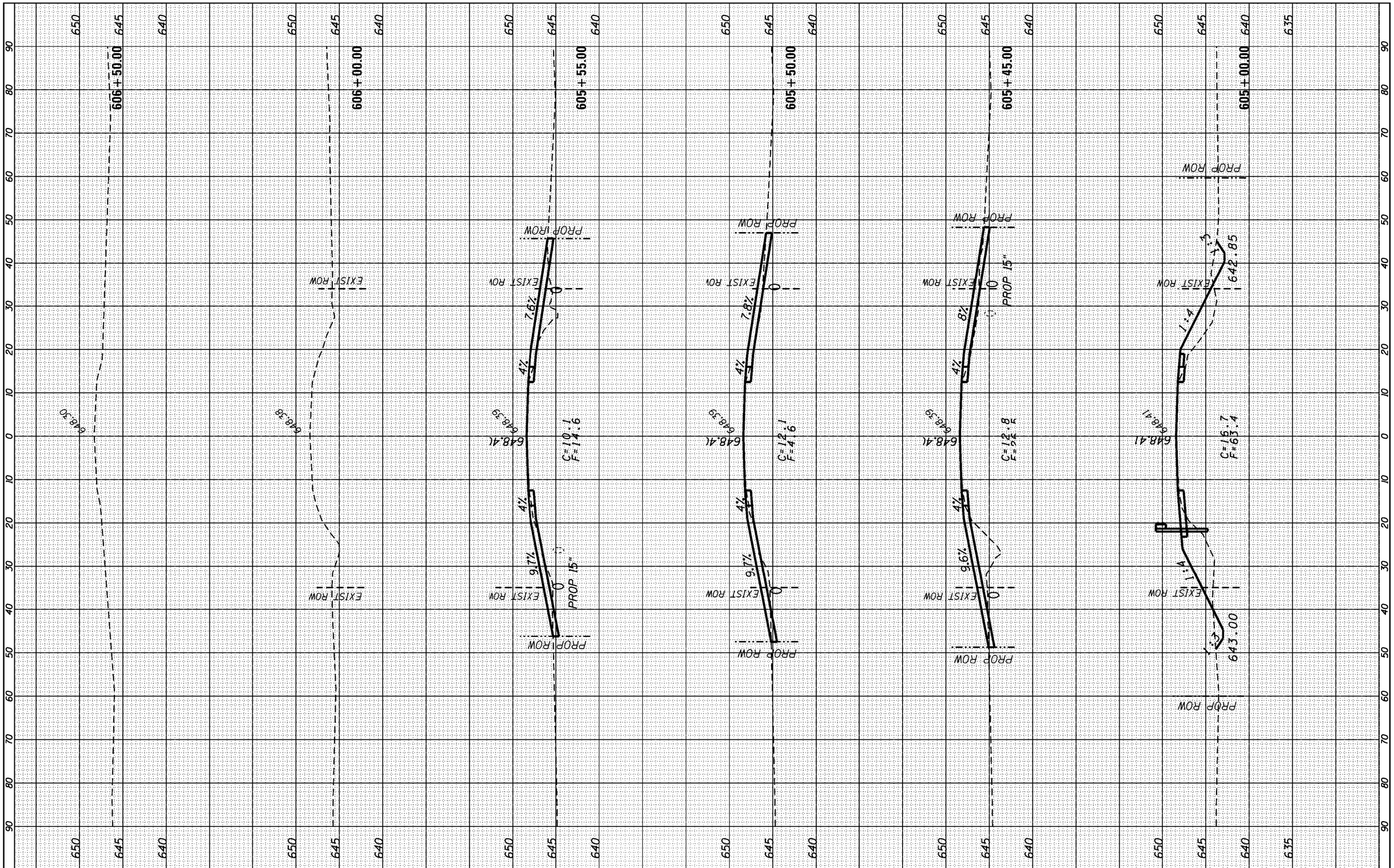
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET OF SHEETS | STA. 603+00.00 TO STA. 604+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	50
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

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

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



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	PLOT DATE = 8/12/2013	DATE -	REVISED -

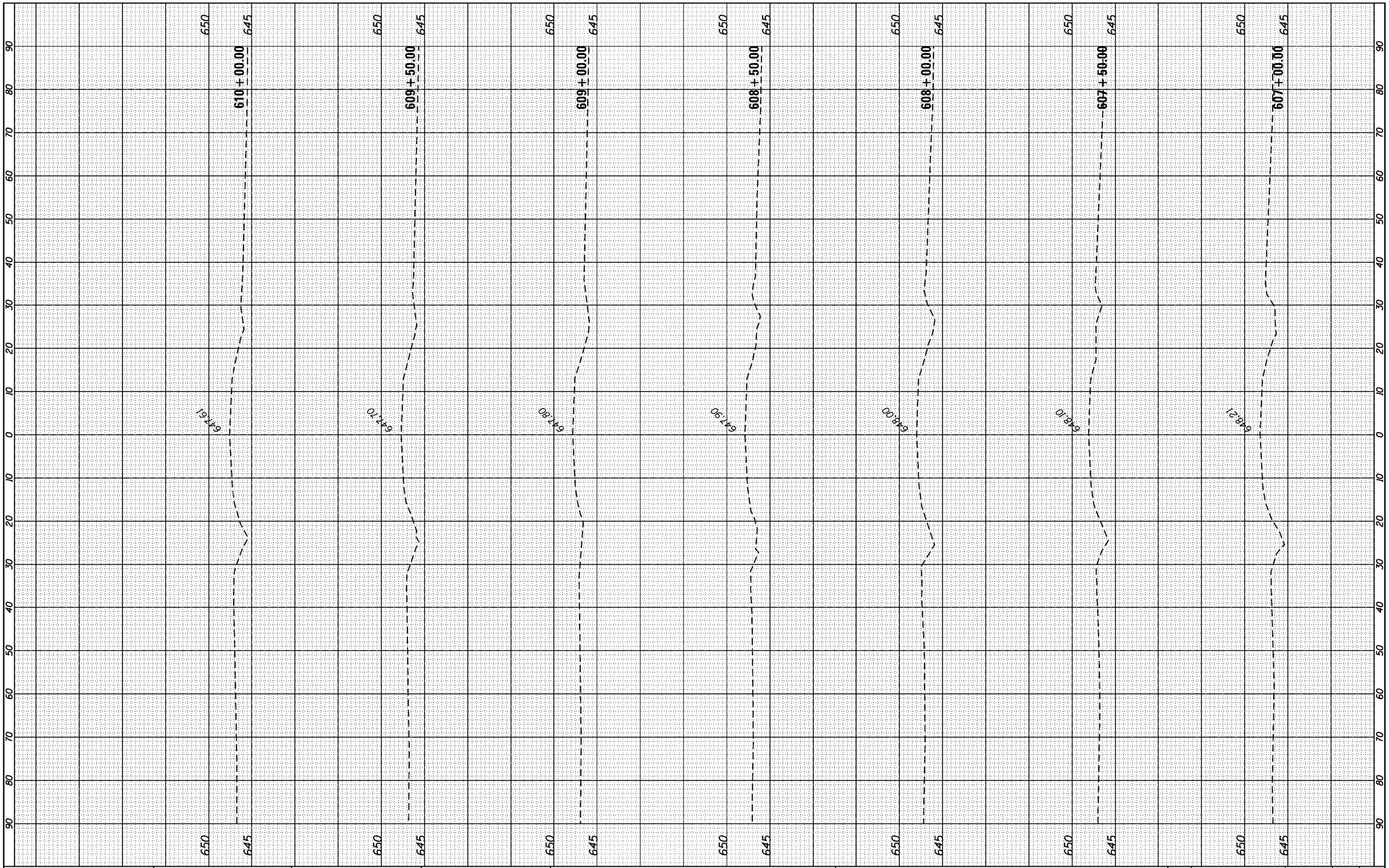
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET OF SHEETS | STA. 605+00.00 TO STA. 606+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	51
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

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

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



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Default	PLOT DATE = 8/12/2013	DATE -	REVISED -

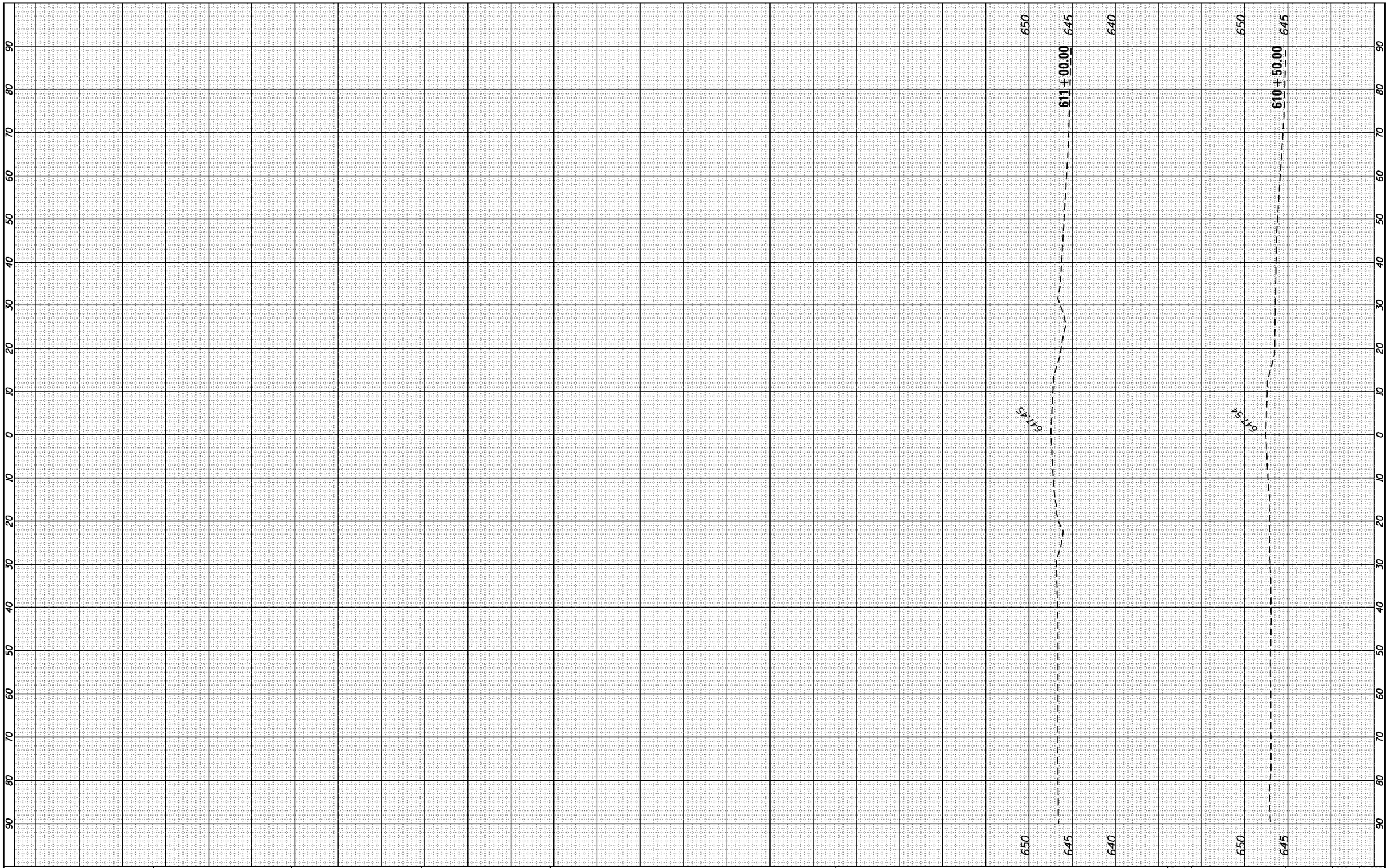
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET OF SHEETS | STA. 607+00.00 | TO STA. 610+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	52
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			

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

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



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Default	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: | SHEET OF SHEETS | STA. 610+50.00 TO STA. 611+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	53
		CONTRACT NO. 66B66		
	ILLINOIS FED. AID PROJECT			