06-12-2015 LETTING ITEM 087

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEE NO. 4 – 9

B–SMART REPAIRS

SN 023–0004
SN 023–0005

HMA 1 1/2" INLAY

SN 023–8026	SN 023–8031
SN 023–8027	SN 023–8032
SN 023–8028	SN 023–8033
SN 023–8029	SN 023–8034
SN 023–8030	SN 023–8310

OMISSIONS FROM PAVING

STATION 947+95.81 TO STATION 957+00.00
SN 023–0004 (BACK TO BACK OF DECK)
SN 023–0005 (BACK TO BACK OF APPROACH PAVEMENTS)

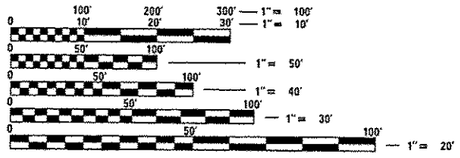
DESIGN DESIGNATION

N/A

CURRENT ADT 2014

LEG A = 3,000 (FAP 332)
LEG B = 3,150 (FAP 332)

LEG A IS FROM US 36 TO FAS 679 (HORACE–BROCTON RD)
LEG B IS FROM FAS 679 (HORACE–BROCTON RD) TO MOSS RD



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 PARIS & EDGAR TOWNSHIPS

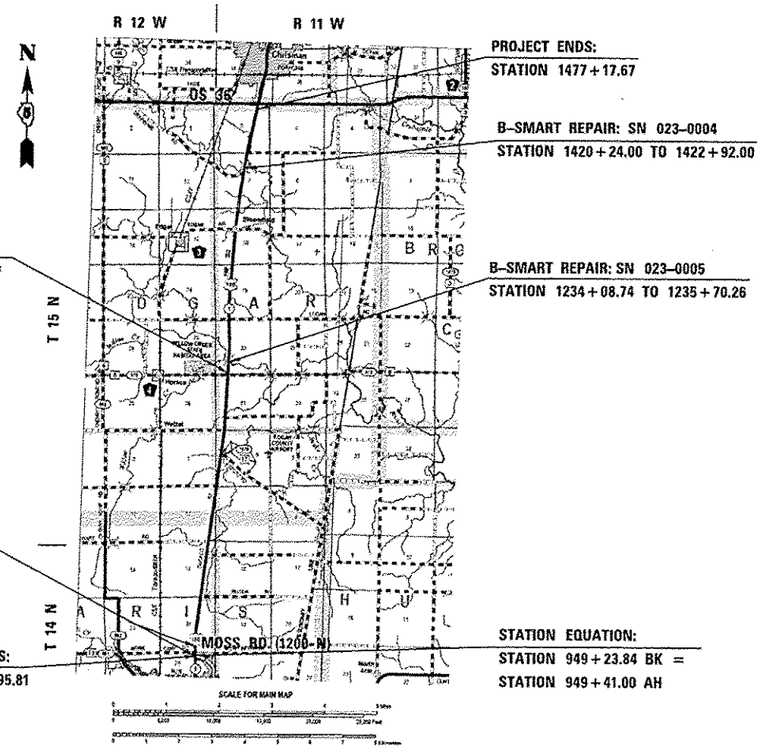
PROJECT ENGINEER: JASON STULTS
SQUAD LEADER: RYAN CARROLL
DESIGNER: AVOREE GORE
(217)465–4181

CONTRACT NO. 70839

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 332 (US 150 /IL 1)
SECTION [(CX–1)RS–3 & (C–X)RS–6)]BDR
PROJECT ACNHPP-0332(124)
RESURFACING (SMART) GUARDRAIL
EDGAR COUNTY
C–95–012–11
US 36 TO MOSS RD N OF PARIS

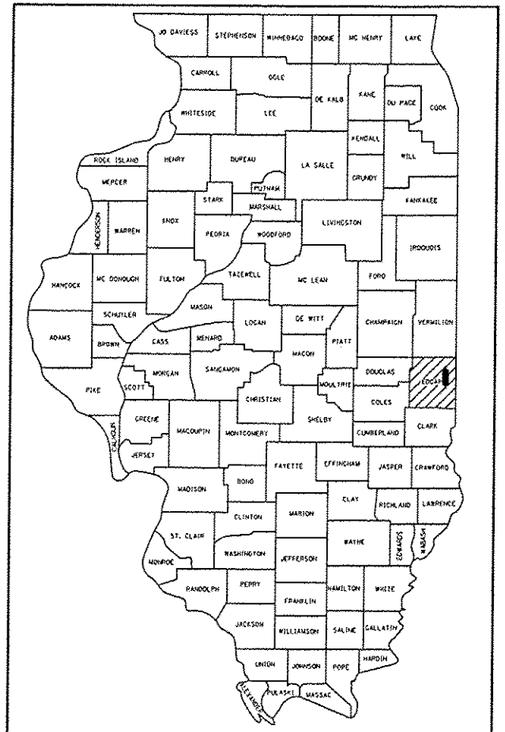


GROSS LENGTH = 52,898.16 FT. = 10.019 MILE
NET LENGTH = 51,781.57 FT. = 9.807 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	1
	ILLINOIS	CONTRACT NO. 70839		

*[(CX-1)RS-3 & (C-X)RS-6]BDR

D–95–012–11



LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 19 20 15
DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER
May 8 20 15
John D. Baranzelli, P.E. by authority
ENGINEER OF DESIGN AND ENVIRONMENT
May 8 20 15
Omer Osman, P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS/ HIGHWAY STANDARDS
3	GENERAL NOTES
4-9	SUMMARY OF QUANTITIES
10-11	EXISTING AND PROPOSED TYPICAL SECTIONS
12-20	SCHEDULE OF QUANTITIES
21-26	ALIGNMENTS, TIE POINTS AND BENCHMARKS
27-44	PLAN SHEETS
45	TEMPORARY CONCRETE BARRIER DETAIL S.N. 023-0004
46	TEMPORARY CONCRETE BARRIER DETAIL S.N. 023-0005
47-75	023-0005 B-SMART REPAIR PLAN SHEETS
76-111	023-0004 B-SMART REPAIR PLAN SHEETS
112	WIDTH RESTRICTION SIGNING DETAIL
113	WIDTH RESTRICTION SIGNING
114	DETAIL FOR INCIDENTAL RESURFACING AT SIDEROADS
115-118	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)
119	SURVEY MARKERS TYPE 1 & 2 (SPECIAL)
120-129	CROSS SECTION SHEETS - BOX CULVERT AT STATION 1090+12
130-135	CROSS SECTION SHEETS - BOX CULVERT AT STATION 1124+20
136-142	CROSS SECTION SHEETS - BOX CULVERT AT 1156+00
143-161	CROSS SECTION SHEETS - SN 023-0005 AT STATION 1234+89.50
162-171	CROSS SECTION SHEETS - SN 023-0004 AT STATION 1421+58.00

LIST OF STANDARDS

STANDARD NUMBER	NAME OF STANDARD
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
442201-03	CLASS C AND D PATCHES
630001-10	STEEL PLATE BEAM GUARDRAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-13	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER REPLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642006	SHOULDER RUMBLE STRIPS, 8 IN.
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
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
701321-14	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

G.N. - 100
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N. - 100A
ELECTRONIC FILES AND /OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.37
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800) 892-0123 OR 811.

G.N.-280
TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION.

G.N. - 406
THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N. - 406H
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT :

Location	IL 1/ US 150	IL 1/ US 150	IL 1/ US 150
Mixture Use	Surface/ Shoulders	Class D	Incidental
AC/PG	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 9.5	IL 19.0	IL 9.5
Friction Aggregate	Mix C	N.A.	Mix C
Mixture Weight	112	112	112
Quality Management Program	QCP	QC/QA	QC/QA
Sublot Size	1000 tons	N.A.	N.A.

G.N.-408B
THE INCIDENTAL HOT-MIX ASPHALT SURFACING SHALL BE COMPACTED AS REQUIRED BY THE SPECIFICATIONS FOR DESIGN NUMBER OF GYRATIONS BEING USED.

AT THE FOLLOWING LOCATIONS:

AIRPORT ROAD (1350 N)
HORACE-BROCTON ROAD

G.N.-442B – PATCHING SCHEDULES
THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G.N. - 631
IF THE CONTRACTOR ELECTS TO USE THE ALTERNATE MOUNTING METHOD OF THRU DRILLING THE MOUNTING HOLES FOR THE TRAFFIC BARRIER TERMINALS, TYPE 6, THE HOLES SHALL BE DRILLED USING A CORE DRILL. A HAMMER DRILL WILL NOT BE ALLOWED.

G.N. - 667
THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR LAYOUT OF THESE MARKERS.

G.N. - 703A
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N. - 781
RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N. - 1004.01
COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

NO COMMITMENTS

SUMMARY OF QUANTITIES
SHEET 1 OF 6

LOCATION OF WORK:	FAP 332 (US 150 / IL 1) RURAL STA. 957+00.00 TO STA. 1477+17.67	FAP 332 (US 150 / IL 1) RURAL SN 023-0004 STATION 1421+58.00	FAP 332 (US 150 / IL 1) RURAL SN 023-0005 STATION 1234+89.50
FUNDING BREAKOUT:	FEDERAL-- 80% STATE -- 20%	FEDERAL-- 80% STATE -- 20%	FEDERAL-- 80% STATE -- 20%
CONSTRUCTION TYPE CODE:	0004	0014 SEQ 1	0014 SEQ 2

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY
20200100	EARTH EXCAVATION	CU YD	94.0	94.0	0.0	0.0
20400800	FURNISHED EXCAVATION	CU YD	468.0	468.0	0.0	0.0
25000210	SEEDING, CLASS 2A	ACRE	1.0	1.0	0.0	0.0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90.0	90.0	0.0	0.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90.0	90.0	0.0	0.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90.0	90.0	0.0	0.0
25100115	MULCH, METHOD 2	ACRE	1.0	1.0	0.0	0.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100.0	100.0	0.0	0.0
28000305	TEMPORARY DITCH CHECKS	FOOT	15.0	15.0	0.0	0.0
28000400	PERIMETER EROSION BARRIER	FOOT	659.0	659.0	0.0	0.0
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	81,693.0	81,486.0	207.0	0.0
40600990	TEMPORARY RAMP	SQ YD	74.0	74.0	0.0	0.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	12,329.0	12,158.0	119.0	52.0
40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	468.0	468.0	0.0	0.0

* DENOTES SPECIALTY ITEM

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	4
	*(CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES
SHEET 2 OF 6

LOCATION OF WORK:	FAP 332 (US 150 / IL 1) RURAL STA. 957+00.00 TO STA. 1477+17.67	FAP 332 (US 150 / IL 1) RURAL SN 023-0004 STATION 1421+58.00	FAP 332 (US 150 / IL 1) RURAL SN 023-0005 STATION 1234+89.50
FUNDING BREAKOUT:	FEDERAL-- 80% STATE -- 20%	FEDERAL-- 80% STATE -- 20%	FEDERAL-- 80% STATE -- 20%
CONSTRUCTION TYPE CODE:	0004	0014	0014

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	TOTAL	TOTAL	TOTAL
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	88.0	88.0	0.0	0.0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	181,081.0	181,081.0	0.0	0.0
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	458.0	0.0	458.0	0.0
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	918.0	918.0	0.0	0.0
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	68.0	68.0	0.0	0.0
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	421.0	421.0	0.0	0.0
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	68.0	68.0	0.0	0.0
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	127.0	127.0	0.0	0.0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1,800.0	1,800.0	0.0	0.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	3,053.0	3,053.0	0.0	0.0
50102400	CONCRETE REMOVAL	CU YD	21.0	0.0	15.4	5.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	20.8	0.0	15.4	5.4
50300300	PROTECTIVE COAT	SQ YD	53.0	0.0	45.0	8.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,330.0	0.0	1,900.0	430.0

* DENOTES SPECIALTY ITEM

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	5
	*(CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES
SHEET 3 OF 6

LOCATION OF WORK:	FAP 332 (US 150 / IL 1) RURAL STA. 957+00.00 TO STA. 1477+17.67	FAP 332 (US 150 / IL 1) RURAL SN 023-0004 STATION 1421+58.00	FAP 332 (US 150 / IL 1) RURAL SN 023-0005 STATION 1234+89.50
FUNDING BREAKOUT:	FEDERAL– 80% STATE – 20%	FEDERAL– 80% STATE – 20%	FEDERAL– 80% STATE – 20%
CONSTRUCTION TYPE CODE:	0004	0014	0014

	CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY
	50800515	BAR SPLICERS	EACH	44.0	0.0	34.0	10.0
	50800530	MECHANICAL SPLICERS	EACH	36.0	0.0	36.0	0.0
	52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	28.0	0.0	14.0	14.0
	52100520	ANCHOR BOLTS, 1"	EACH	56.0	0.0	28.0	28.0
	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	1,290.0	0.0	756.0	534.0
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	150.0	150.0	0.0	0.0
*	63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	1,300.0	1,300.0	0.0	0.0
*	63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	50.0	50.0	0.0	0.0
*	63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	25.0	25.0	0.0	0.0
*	63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	37.5	37.5	0.0	0.0
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2.0	2.0	0.0	0.0
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8.0	8.0	0.0	0.0
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	18.0	18.0	0.0	0.0
	63200310	GUARDRAIL REMOVAL	FOOT	2,226.0	2,226.0	0.0	0.0

* DENOTES SPECIALTY ITEM

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	6
	*(CX-1)RS-3 & (C-X)RS-6)BOR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES
SHEET 4 OF 6

LOCATION OF WORK:	FAP 332 (US 150 / IL 1) RURAL STA. 957+00.00 TO STA. 1477+17.67	FAP 332 (US 150 / IL 1) RURAL SN 023-0004 STATION 1421+58.00	FAP 332 (US 150 / IL 1) RURAL SN 023-0005 STATION 1234+89.50
FUNDING BREAKOUT:	FEDERAL– 80% STATE – 20%	FEDERAL– 80% STATE – 20%	FEDERAL– 80% STATE – 20%
CONSTRUCTION TYPE CODE:	0004	0014	0014

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	100,845.0	100,845.0	0.0	0.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5.0	5.0	0.0	0.0
67100100	MOBILIZATION	L SUM	1.0	1.0	0.0	0.0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2.0	0.0	1.0	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	1.0	0.0	0.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0	1.0	0.0	0.0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2.0	0.0	1.0	1.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	10,482.0	10,482.0	0.0	0.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	119,908.0	119,908.0	0.0	0.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	41,540.0	41,540.0	0.0	0.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	887.5	0.0	487.5	400.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	737.5	0.0	412.5	325.0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4.0	0.0	2.0	2.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4.0	0.0	2.0	2.0

* DENOTES SPECIALTY ITEM

14

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	7
	*((CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES
SHEET 5 OF 6

LOCATION OF WORK:	FAP 332 (US 150 / IL 1) RURAL STA. 957+00.00 TO STA. 1477+17.67	FAP 332 (US 150 / IL 1) RURAL SN 023-0004 STATION 1421+58.00	FAP 332 (US 150 / IL 1) RURAL SN 023-0005 STATION 1234+89.50
FUNDING BREAKOUT:	FEDERAL-- 80% STATE -- 20%	FEDERAL-- 80% STATE -- 20%	FEDERAL-- 80% STATE -- 20%
CONSTRUCTION TYPE CODE:	0004	0014	0014

	CODE NO		ITEM		UNIT		TOTAL QUANTITY		QUANTITY		QUANTITY		QUANTITY
*	78000200		THERMOPLASTIC PAVEMENT MARKING - LINE 4"		FOOT		531.0		531.0		0.0		0.0
*	78000600		THERMOPLASTIC PAVEMENT MARKING - LINE 12"		FOOT		9.0		9.0		0.0		0.0
*	78001110		PAINT PAVEMENT MARKING - LINE 4"		FOOT		119,376.0		119,376.0		0.0		0.0
*	78100100		RAISED REFLECTIVE PAVEMENT MARKER		EACH		653.0		653.0		0.0		0.0
*	78100105		RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)		EACH		5.0		0.0		3.0		2.0
*	78200410		GUARDRAIL MARKERS, TYPE A		EACH		39.0		39.0		0.0		0.0
*	78201000		TERMINAL MARKER - DIRECT APPLIED		EACH		18.0		18.0		0.0		0.0
	78300200		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		EACH		658.0		658.0		0.0		0.0
	X0322194		POLYMER MODIFIED PORTLAND CEMENT MORTAR		SQ FT		21.0		0.0		17.0		4.0
	X0325682		PUMPABLE CONCRETE MIX		CU FT		1.8		0.0		1.8		0.0
	X4400196		HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL		SQ YD		965.0		965.0		0.0		0.0
*	X6330725		STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)		FOOT		50.0		50.0		0.0		0.0
*	X7830070		GROOVING FOR RECESSED PAVEMENT MARKING 5"		FOOT		531.0		531.0		0.0		0.0
*	X7830078		GROOVING FOR RECESSED PAVEMENT MARKING 13"		FOOT		9.0		9.0		0.0		0.0

* DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	8
	*((CX-1)RS-3 & (C-X)RS-6)BOR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES
SHEET 6 OF 6

LOCATION OF WORK:	FAP 332 (US 150 / IL 1) RURAL STA. 957+00.00 TO STA. 1477+17.67	FAP 332 (US 150 / IL 1) RURAL SN 023-0004 STATION 1421+58.00	FAP 332 (US 150 / IL 1) RURAL SN 023-0005 STATION 1234+89.50
FUNDING BREAKOUT:	FEDERAL-- 80% STATE -- 20%	FEDERAL-- 80% STATE -- 20%	FEDERAL-- 80% STATE -- 20%
CONSTRUCTION TYPE CODE:	0004	0014	0014

CODE NO	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY
XZ193400	SURVEY MARKER, TYPE 2 (SPECIAL)	EACH	18.0	18.0	0.0	0.0
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	3.0	0.0	0.0	3.0
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	28.0	0.0	14.0	14.0
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	1,277.0	0.0	747.0	530.0
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	26.0	0.0	26.0	0.0
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	14.0	0.0	8.0	6.0
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	20.0	0.0	12.0	8.0
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	65.0	0.0	38.0	27.0
Z0021904	SILICONE JOINT SEALER, 1"	FOOT	122.0	0.0	122.0	0.0
Z0021907	SILICONE JOINT SEALER, 1.75"	FOOT	44.5	0.0	0.0	44.5
Z0021914	SILICONE JOINT SEALER, 2.75"	FOOT	44.5	0.0	0.0	44.5
Z0041895	POLYMER CONCRETE	CU FT	22.6	0.0	13.5	9.1

* DENOTES SPECIALTY ITEM

12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

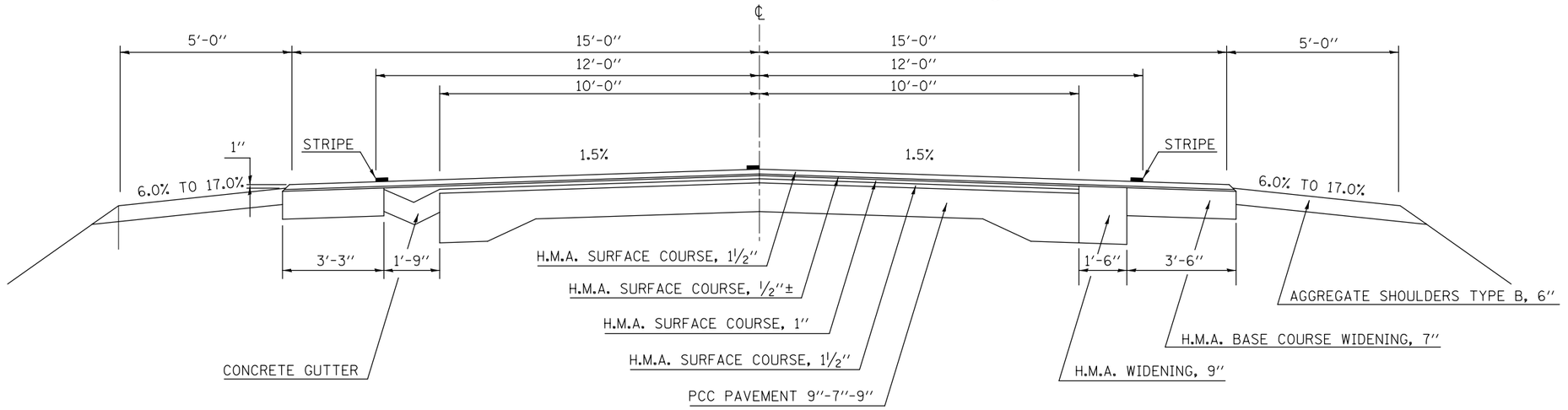
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	9
*((CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
ILLINOIS FED. AID PROJECT				

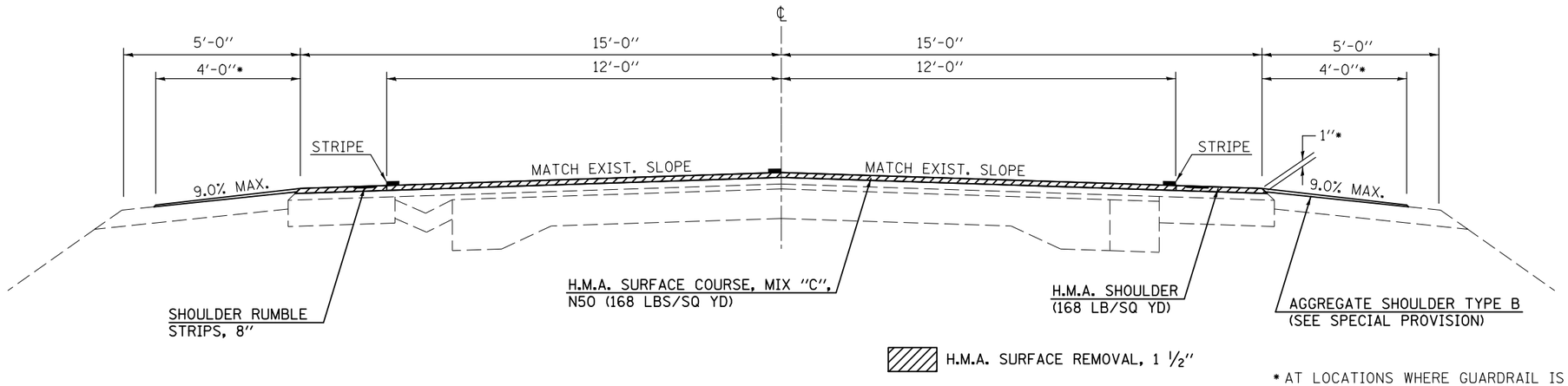
(1) EXISTING TYPICAL CROSS SECTION

STATION	TO	STATION
947+95.81		949+23.84
STATION EQUATION 949+23.84 BK = 949+41.00 AH		
949+41.00		1222+08.46
STATION EQUATION 1222+08.46 BK = 1222+15.00 AH		
1222+15.00		1222+48.34 (2)



(1) PROPOSED TYPICAL CROSS SECTION

STATION	TO	STATION
947+95.81		949+23.84
STATION EQUATION 949+23.84 BK = 949+41.00 AH		
949+41.00		1222+08.46
STATION EQUATION 1222+08.46 BK = 1222+15.00 AH		
1222+15.00		1222+48.34 (2)



* AT LOCATIONS WHERE GUARDRAIL IS PROPOSED, THE PROPOSED AGGREGATE SHOULDER WIDTH = 5′-0″ WITH THICKNESS AT EDGE OF HMA SHOULDER = 3″. SEE AGGREGATE SHOULDER, TYPE B SCHEDULE FOR LIMITS.

RESURFACING OMISSION
STA. 947+95.81 TO STA. 957+00.00

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	PLOT DATE = 3/18/2015	DATE - 02/23/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

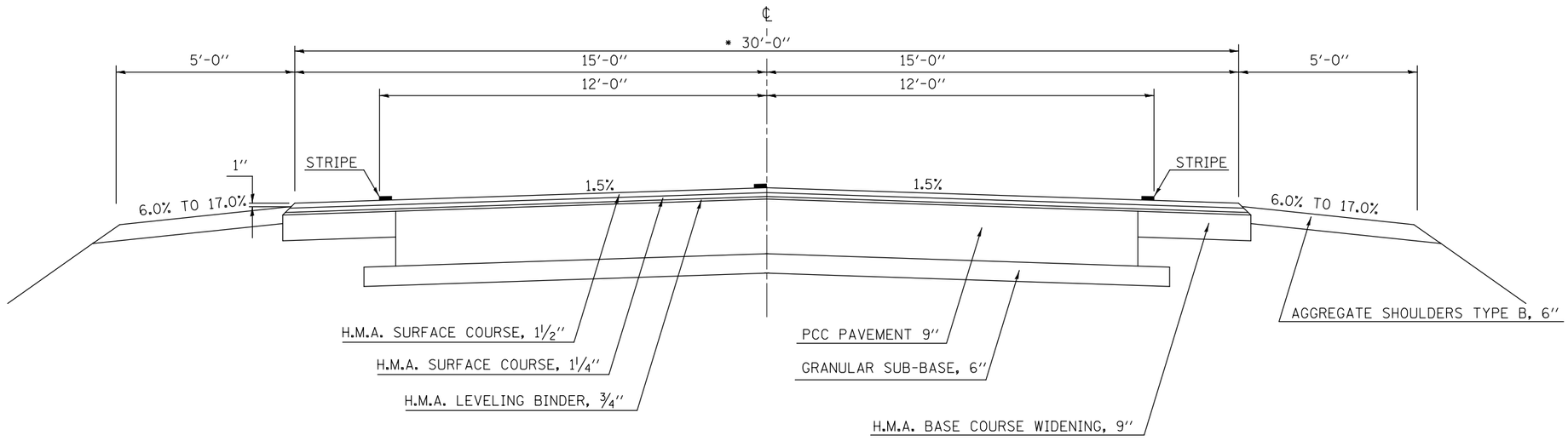
EXISTING & PROPOSED TYPICAL CROSS SECTIONS

SCALE: | SHEET 1 OF 2 SHEETS | STA. 947+95.81 TO STA. 1222+48.34

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	10
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

(2) EXISTING TYPICAL CROSS SECTION

STATION	TO	STATION
(1) 1222+48.34		1477+17.67



* VAR. 30′-0″ TO 40′-0″

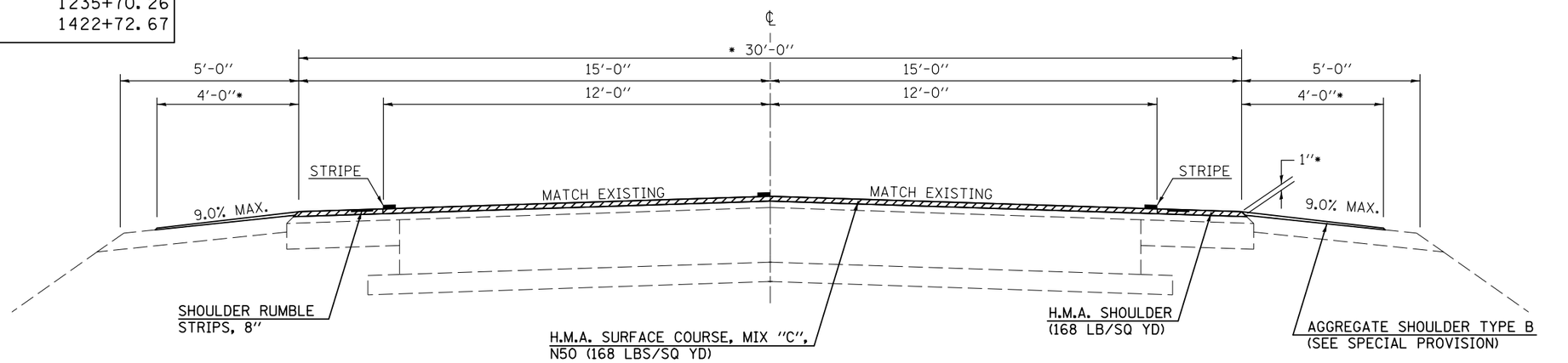
STATION	TO	STATION
1233+44.50		1234+04.50
1235+70.26		1236+34.50
1419+83.00		1420+43.24
1422+72.76		1423+38.00

*40′-0″

STATION	TO	STATION
1234+04.50		1235+70.26
1420+43.24		1422+72.67

(2) PROPOSED TYPICAL CROSS SECTION

STATION	TO	STATION
(1) 1222+48.34		1477+17.67



H.M.A. SURFACE REMOVAL, 1 ½″

* AT LOCATIONS WHERE GUARDRAIL IS PROPOSED, THE PROPOSED AGGREGATE SHOULDER WIDTH = 5′-0″ WITH THICKNESS AT EDGE OF HMA SHOULDER = 3″. SEE AGGREGATE SHOULDER, TYPE B SCHEDULE FOR LIMITS.

B-SMART REPAIRS

SN 023-0005 STA. 1234+08.74 TO STA. 1235+70.26
SN 023-0004 STA. 1420+24.00 TO STA. 1422+92.00

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	PLOT DATE = 3/18/2015	DATE - 02/23/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED TYPICAL CROSS SECTIONS

SCALE: | SHEET 2 OF 2 SHEETS | STA. 1222+48.34 TO STA. 1477+17.67

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	11
	*(CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

SHEET 1 OF 9

SCHEDULE OF EARTHWORK QUANTITIES							
LOCATION			20200100 EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	20400800 FURNISHED EXCAVATION
STATION	TO	STATION	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
1088+16.00		1092+34.00	45.0	33.8	224	-190.3	190.3
1122+39.45		112+59.95	22.0	16.5	70	-53.5	53.5
1153+67.00		1157+87.45	3.0	2.3	50	-47.8	47.8
1232+27.82		1239+63.76	16.0	12.0	60	-48.0	48.0
1418+98.05		1423+65.86	8.0	6.0	134	-128.0	128.0
		TOTAL =	94.0	70.5	538.0	-467.5	467.5
		ROUNDED TOTAL =	94	71	538	-468	468

NOTES:
1) THE SHRINKAGE FACTOR USED IS 25%
2) SHRINKAGE, EMBANKMENT, AND BALANCE DATA IS FOR INFORMATION ONLY

SEEDING SCHEDULE									
LOCATION			AREA	25000210 SEEDING CLASS 2A	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHORUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100105 MULCH METHOD, 2	28000250 TEMPORARY EROSION CONTROL SEEDING
STATION	TO	STATION	(SQ FT)	(ACRE)	(POUND)	(POUND)	(POUND)	(ACRE)	(POUND)
1088+16.00		1092+34.00	10,898.59	0.3	22.5	22.5	22.5	0.3	25.0
1122+39.45		112+59.95	4,999.27	0.1	10.3	10.3	10.3	0.1	11.5
1153+67.00		1157+87.45	4,138.61	0.1	8.6	8.6	8.6	0.1	9.5
1232+27.82		1239+63.76	8,333.15	0.2	17.2	17.2	17.2	0.2	19.1
1418+98.05		1423+65.86	9,747.29	0.2	20.1	20.1	20.1	0.2	22.4
		TOTAL =	38,116.91	0.9	78.8	78.8	78.8	0.9	87.5
		ROUNDED TOTAL =	38,117	1.0	90	90	90	1.0	100.0

28000305 TEMPORARY DITCH CHECK				
LOCATION				QUANTITY
	SIDE	STATION	O/S (FT)	(FOOT)
023-0004	RT	1419+55.00	46.0	15.0
			TOTAL =	15.0

28000400 PERIMETER EROSION BARRIER							
LOCATION							QUANTITY
	SIDE	STATION	O/S (FT)	TO	STATION	O/S (FT)	(FT)
BOX CULVERT 1090+09	LT	1088+00.00	26'		1088+50.00	29'	50.0
	LT	1088+50.00	29'		1089+00.00	28'	50.0
	LT	1089+00.00	28'		1089+50.00	30'	50.0
	LT	1089+50.00	30'		1090+00.00	32'	50.0
	LT	1090+18.00	35'		1090+52.00	33'	34.0
023-0005	LT	1235+50.00	32'		1236+50.00	32'	100.0
	LT	1236+50.00	32'		1238+50.00	30'	200.0
	LT	1238+50.00	30'		1239+50.00	28'	100.0
023-0004	RT	1419+75.00	47'		1420+00.00	47'	25.0
						TOTAL =	659.0
						ROUNDED TOTAL =	659

40600990 TEMPORARY RAMP					
LOCATION	STATION	SIDE	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
START OF JOB	957+00.00		5.0	30.0	16.7
AIRPORT ROAD (1350 N)	1144+83.86	RT	5.0	33.0	18.3
HORACE-BROCTON ROAD	1221+87.73	RT	5.0	40.0	22.2
END OF JOB	1477+17.67		5.0	30.0	16.7
				TOTAL =	73.9
				ROUNDED TOTAL =	74

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$MODELNAME$	PLOT DATE = 3/17/2015	DATE - 02/23/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 1 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	12
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
ILLINOIS	FED. AID PROJECT			

SCHEDULE OF QUANTITIES

SHEET 2 OF 9

SCHEDULE OF MAINLINE RESURFACING QUANTITIES

LOCATION					LENGTH	LANE WIDTH	SHOULDER WIDTH	AREA		HMA SC THICKNESS	40600275 BITUMINOUS MATERIALS PRIME COAT		40603310 HMA SC MIX "C" N50	44000155 HMA SURFACE REM, 1.5"	48203100 HMA SHOULDERS
								MAINLINE	SHOULDER		MAINLINE	SHOULDER			
		STATION	TO	STATION	(FOOT)	(FOOT)	(FOOT)	(SQ YD)	(SQ YD)	(INCHES)	(POUNDS)		(TON)	(SQ YD)	(TON)
	NB	957+00.00		1222+08.46	26,508.5	12.0	3.0	35,344.6	8,836.2	1.5	15,905.1	3,976.3	2,968.9	44,180.8	742.2
STATION EQUATION		1222+08.46 (BK)	=	1222+15.00 (AH)											
	NB	1222+15.00		1233+35.00	1,120.0	12.0	3.0	1,493.3	373.3	1.5	672.0	168.0	125.4	1,866.7	31.4
	NB	1233+35.00		1234+08.74	73.7	12.0	5.5	98.3	45.1	1.5	44.2	20.3	8.3	143.4	3.8
	NB	1234+08.74		1234+17.05	8.3	0.0	8.0	0.0	7.4	1.5	0.0	3.3	0.0	7.4	0.6
B-SMART REPAIRS		1234+17.05		1235+62.17											
	NB	1235+62.17		1235+70.26	8.1	0.0	8.0	0.0	7.2	1.5	0.0	3.2	0.0	7.2	0.6
	NB	1235+70.26		1236+40.89	70.6	12.0	5.5	94.2	43.2	1.5	42.4	19.4	7.9	137.3	3.6
	NB	1236+40.89		1419+70.28	18,329.4	12.0	3.0	24,439.2	6,109.8	1.5	10,997.6	2,749.4	2,052.9	30,549.0	513.2
	NB	1419+70.28		1420+24.00	53.7	12.0	5.5	71.6	32.8	1.5	32.2	14.8	6.0	104.5	2.8
B-SMART REPAIRS		1420+24.00		1422+90.00											
	NB	1422+92.00		1423+25.00	33.0	12.0	5.5	44.0	20.2	1.5	19.8	9.1	3.7	64.2	1.7
	NB	1423+25.00		1477+17.67	5,392.7	12.0	3.0	7,190.2	1,797.6	1.5	3,235.6	808.9	604.0	8,987.8	151.0
	SB	957+00.00		1222+08.46	26,508.5	12.0	3.0	35,344.6	8,836.2	1.5	15,905.1	3,976.3	2,968.9	44,180.8	742.2
STATION EQUATION		1222+08.46 (BK)	=	1222+15.00 (AH)											
	SB	1222+15.00		1233+35.00	1,120.0	12.0	3.0	1,493.3	373.3	1.5	672.0	168.0	125.4	1,866.7	31.4
	SB	1233+35.00		1234+09.00	74.0	12.0	5.5	98.7	45.2	1.5	44.4	20.4	8.3	143.9	3.8
	SB	1234+08.74		1234+17.05	8.3	0.0	8.0	0.0	7.4	1.5	0.0	3.3	0.0	7.4	0.6
B-SMART REPAIRS		1234+17.05		1235+62.17											
	SB	1235+62.17		1235+70.26	8.1	0.0	8.0	0.0	7.2	1.5	0.0	3.2	0.0	7.2	0.6
	SB	1235+70.26		1236+40.89	70.6	12.0	5.5	94.2	43.2	1.5	42.4	19.4	7.9	137.3	3.6
	SB	1236+40.89		1419+50.00	18,309.1	12.0	3.0	24,412.1	6,103.0	1.5	10,985.5	2,746.4	2,050.6	30,515.2	512.7
	SB	1419+50.00		1420+24.00	74.0	12.0	5.5	98.7	45.2	1.5	44.4	20.4	8.3	143.9	3.8
B-SMART REPAIRS		1420+24.00		1422+90.00											
	SB	1422+92.00		1477+17.67	5,425.7	12.0	3.0	7,234.2	1,808.6	1.5	3,255.4	813.9	607.7	9,042.8	151.9
	SB	1423+25.00		1477+17.67	5,392.7	12.0	3.0	7,190.2	1,797.6	1.5	3,235.6	808.9	604.0	8,987.8	151.0
										SUBTOTAL=	65,133.7	16,352.8	12,158.3	181,081.0	3,052.5
										B-SMART REPAIRS =	207.0		171.0	0.0	0.0
										TOTAL =	81,693.4		12,329.3	181,081.0	3,052.5
										ROUNDED TOTAL =	81,693		12,329	181,081	3,053

INCIDENTAL HOT-MIX ASPHALT SURFACING

			INCIDENTAL AREA	AVERAGE THICKNESS	40800025 BIT MAT'L PRIME COAT	40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING	X4400196 HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL
STATION		TYPE	(SQ YD)	(INCH)	(POUNDS)	(TON)	(SQ YD)
1007+24.21	RT	SR	71.42	1.50	32.14	6.00	71.42
1047+45.75	RT	SR	53.32	1.50	23.99	4.48	53.32
1060+02.71	LT	SR	76.08	1.50	34.24	6.39	76.08
1114+39.70	LT	SR	52.88	1.50	23.80	4.44	52.88
1144+88.86	RT	SR	52.05	1.50	23.42	4.37	52.05
1168+36.01	LT	SR	73.42	1.50	33.04	6.17	73.42
1180+18.22	RT	SR	65.98	1.50	29.69	5.54	65.98
1221+87.73	RT	SR	85.98	1.50	38.69	7.22	85.98
1274+98.60	RT	SR	88.12	1.50	39.65	7.40	88.12
1274+98.60	LT	SR	81.95	1.50	36.88	6.88	81.95
1361+98.97	RT	SR	58.65	1.50	26.39	4.93	58.65
1362+00.93	LT	SR	89.56	1.50	40.30	7.52	89.56
1415+67.20	LT	SR	62.08	1.50	27.94	5.21	62.08
1436+40.25	RT	SR	52.97	1.50	23.84	4.45	52.97
				TOTAL =	467.36	87.24	964.46
				ROUNDED TOTAL =	468.0	88.0	965.0

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$MODELNAME$	PLOT DATE = 3/16/2015	DATE - 02/23/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 2 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	13
*E(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

SHEET 3 OF 9

48101200 AGGREGATE SHOULDERS, TYPE B								
LOCATION				LENGTH	WIDTH	AVERAGE AREA	VOLUME	AGGREGATE SHOULDERS
	STATION	TO	STATION	(FOOT)	(FOOT)	(SQ FT)	(CU YD)	TY B (TONS)
RT	957+00.00		1006+94.44	4,994.4	4.0	0.25	46.2	83.2
RT	1007+54.35		1033+73.26	2,618.9	4.0	0.25	24.2	43.6
RT	1034+50.16		1047+26.56	1,276.4	4.0	0.25	11.8	21.3
RT	1047+72.95		1058+50.12	1,077.2	4.0	0.25	10.0	18.0
RT	1059+02.77		1087+66.00	2,863.2	4.0	0.25	26.5	47.7
RT	1087+66.00		1092+34.00	468.0	5.0	1.04	18.0	32.4
RT	1092+34.00		1125+20.06	3,286.1	4.0	0.25	30.4	54.8
RT	1125+54.98		1140+62.04	1,507.1	4.0	0.25	14.0	25.1
RT	1141+20.85		1144+67.05	346.2	4.0	0.25	3.2	5.8
RT	1145+12.60		1145+94.08	81.5	4.0	0.25	0.8	1.4
RT	1148+91.71		1153+67.00	475.3	4.0	0.25	4.4	7.9
RT	1153+67.00		1157+87.45	420.4	5.0	1.04	16.2	29.2
RT	1157+87.45		1158+38.84	51.4	4.0	0.25	0.5	0.9
RT	1158+95.48		1179+99.90	2,104.4	4.0	0.25	19.5	35.1
RT	1180+43.60		1221+61.26	4,117.7	4.0	0.25	38.1	68.6
RT	1222+19.50		1232+27.82	1,008.3	4.0	0.25	9.3	16.8
RT	1232+27.82		1233+35.00	107.2	5.0	1.04	4.1	7.4
RT	1233+35.00		1234+17.05	82.1	2.5	0.52	1.6	2.8
RT	1235+62.17		1236+40.89	78.7	2.5	0.52	1.5	2.7
RT	1236+40.89		1236+76.26	35.4	5.0	1.04	1.4	2.5
RT	1236+76.26		1243+71.63	695.4	4.0	0.25	6.4	11.6
RT	1244+00.63		1244+72.30	71.7	4.0	0.25	0.7	1.2
RT	1244+97.61		1246+69.30	171.7	4.0	0.25	1.6	2.9
RT	1247+27.23		1252+85.32	558.1	4.0	0.25	5.2	9.3
RT	1253+10.36		1256+03.13	292.8	4.0	0.25	2.7	4.9
RT	1256+32.24		1274+73.61	1,841.4	4.0	0.25	17.0	30.7
RT	1275+19.42		1356+44.47	8,125.1	4.0	0.25	75.2	135.4
RT	1356+79.85		1358+84.54	204.7	4.0	0.25	1.9	3.4
RT	1359+31.83		1361+78.08	246.3	4.0	0.25	2.3	4.1
RT	1362+23.13		1363+03.44	80.3	4.0	0.25	0.7	1.3
RT	1363+26.92		1365+46.69	219.8	4.0	0.25	2.0	3.7
RT	1366+35.95		1414+60.28	4,824.3	4.0	0.25	44.7	80.4
RT	1414+91.59		1418+53.66	362.1	4.0	0.25	3.4	6.0
RT	1418+53.66		1419+69.61	115.9	5.0	1.04	4.5	8.0
RT	1419+69.61		1420+78.37	108.8	2.5	0.52	2.1	3.8
RT	1422+70.80		1423+35.96	65.2	2.5	0.52	1.3	2.3
RT	1423+35.96		1423+86.90	50.9	5.0	1.04	2.0	3.5
RT	1423+86.90		1436+21.47	1,234.6	4.0	0.25	11.4	20.6
RT	1436+69.72		1449+63.80	1,294.1	4.0	0.25	12.0	21.6
RT	1449+93.08		1477+17.67	2,724.6	4.0	0.25	25.2	45.4
							RIGHT TOTAL =	907.2

48101200 AGGREGATE SHOULDERS, TYPE B								
LOCATION				LENGTH	WIDTH	AVERAGE AREA	VOLUME	AGGREGATE SHOULDERS
	STATION	TO	STATION	(FOOT)	(FOOT)	(SQ FT)	(CU YD)	TY B (TONS)
LT	957+00.00		986+02.69	2,902.7	4.0	0.25	26.9	48.4
LT	986+50.58		1001+95.49	1,544.9	4.0	0.25	14.3	25.7
LT	1002+46.02		1007+48.11	502.1	4.0	0.25	4.6	8.4
LT	1008+02.67		1027+95.00	1,992.3	4.0	0.25	18.4	33.2
LT	1028+73.73		1058+45.10	2,971.4	4.0	0.25	27.5	49.5
LT	1058+98.28		1060+72.43	174.1	4.0	0.25	1.6	2.9
LT	1061+53.57		1087+19.38	2,565.8	4.0	0.25	23.8	42.8
LT	1087+49.91		1088+16.00	66.1	4.0	0.25	0.6	1.1
LT	1088+16.00		1092+34.00	418.0	5.0	1.04	16.1	29.0
LT	1092+34.00		1115+16.23	2,282.2	4.0	0.25	21.1	38.0
LT	1115+62.93		1122+39.45	676.5	4.0	0.25	6.3	11.3
LT	1122+39.45		1125+94.95	355.5	5.0	1.04	13.7	24.6
LT	1125+94.95		1138+53.62	1,258.7	4.0	0.25	11.7	21.0
LT	1143+89.16		1154+85.27	1,096.1	4.0	0.25	10.1	18.3
LT	1161+07.93		1168+12.66	704.7	4.0	0.25	6.5	11.7
LT	1168+61.28		1219+55.86	5,094.6	4.0	0.25	47.2	84.9
LT	1219+84.12		1220+64.64	80.5	4.0	0.25	0.7	1.3
LT	1222+33.58		1232+77.82	1,044.2	4.0	0.25	9.7	17.4
LT	1232+77.82		1233+35.00	57.2	5.0	1.04	2.2	4.0
LT	1233+35.00		1234+17.05	82.1	2.5	0.52	1.6	2.8
LT	1235+62.17		1236+40.89	78.7	2.5	0.52	1.5	2.7
LT	1236+40.89		1239+63.76	322.9	5.0	1.04	12.4	22.4
LT	1239+63.76		1239+76.43	12.7	4.0	0.25	0.1	0.2
LT	1240+06.38		1246+84.50	678.1	4.0	0.25	6.3	11.3
LT	1247+15.60		1254+00.30	684.7	4.0	0.25	6.3	11.4
LT	1254+32.60		1256+58.83	226.2	4.0	0.25	2.1	3.8
LT	1256+89.75		1259+43.22	253.5	4.0	0.25	2.3	4.2
LT	1259+77.25		1272+93.16	1,315.9	4.0	0.25	12.2	21.9
LT	1273+44.90		1274+38.63	93.7	4.0	0.25	0.9	1.6
LT	1275+19.08		1356+57.28	8,138.2	4.0	0.25	75.4	135.6
LT	1356+94.89		1361+76.45	481.6	4.0	0.25	4.5	8.0
LT	1362+24.65		1374+19.49	1,194.8	4.0	0.25	11.1	19.9
LT	1374+53.24		1375+19.52	66.3	4.0	0.25	0.6	1.1
LT	1375+50.77		1414+19.70	3,868.9	4.0	0.25	35.8	64.5
LT	1414+47.20		1415+39.67	92.5	4.0	0.25	0.9	1.5
LT	1415+92.41		1419+29.10	336.7	4.0	0.25	3.1	5.6
LT	1419+29.10		1419+49.59	20.5	5.0	1.04	0.8	1.4
LT	1419+49.59		1420+04.32	54.7	2.5	0.52	1.1	1.9
LT	1422+35.43		1423+05.56	70.1	2.5	0.52	1.4	2.4
LT	1423+05.56		1424+24.84	119.3	5.0	1.04	4.6	8.3
LT	1424+24.84		1433+85.26	960.4	4.0	0.25	8.9	16.0
LT	1434+45.53		1476+05.08	4,159.5	4.0	0.25	38.5	69.3
LT	1476+43.84		1477+17.67	73.8	4.0	0.25	0.7	1.2
							LEFT TOTAL =	892.8
							TOTAL =	1,800.1
							USE =	1,800

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-schedule.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES
		DRAWN - ASG	REVISED -		
$MODELNAME$	PLOT SCALE = 40.0000 ' / in.	CHECKED - RTC	REVISED -		SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.
	PLOT DATE = 3/18/2015	DATE - 02/23/15	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	14
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

SHEET 4 OF 9

FULL DEPTH PATCHING									
STATION	NB/SB	LANE	LENGTH	WIDTH	CLASS D PATCHES				
					44201815 TYPE II 14 INCH	44201819 TYPE III 14 INCH	44201821 TYPE IV 14 INCH	44201803 TYPE II 13INCH	44201807 TYPE III 13 INCH
			(FOOT)	(FOOT)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
960+23.00	NB	DL	6	12	8.0				
960+23.00	SB	DL	6	12	8.0				
963+62.00	NB	DL	12	12		16.0			
969+02.00	NB	DL	8	12	10.7				
974+59.00	NB	DL	6	12	8.0				
974+59.00	SB	DL	6	12	8.0				
978+54.00	NB	DL	6	12	8.0				
981+88.00	NB	DL	12	12		16.0			
988+86.00	NB	DL	10	12	13.3				
988+86.00	SB	DL	6	12	8.0				
991+89.00	NB	DL	25	12			33.3		
992+51.00	NB	DL	8	12	10.7				
992+51.00	SB	DL	8	12	10.7				
992+78.00	NB	DL	6	12	8.0				
993+13.00	NB	DL	25	12			33.3		
996+13.00	SB	DL	8	12	10.7				
997+64.00	NB	DL	6	12	8.0				
1000+99.00	NB	DL	15	12		20.0			
1000+99.00	SB	DL	6	12	8.0				
1017+07.00	NB	DL	6	12	8.0				
1017+21.00	NB	DL	8	12	10.7				
1017+21.00	SB	DL	6	12	8.0				
1025+04.00	NB	DL	10	12	13.3				
1034+55.00	NB	DL	8	12	10.7				
1034+55.00	SB	DL	6	12	8.0				
1034+78.00	NB	DL	20	12			26.7		
1034+78.00	SB	DL	12	12		16.0			
1035+15.00	NB	DL	6	12	8.0				
1035+15.00	SB	DL	6	12	8.0				
1038+62.00	NB	DL	8	12	10.7				
1038+62.00	SB	DL	6	12	8.0				
1044+07.00	NB	DL	6	12	8.0				
1044+07.00	SB	DL	6	12	8.0				
1048+86.00	NB	DL	10	12	13.3				
1048+86.00	SB	DL	10	12	13.3				
1054+04.00	NB	DL	10	12	13.3				
1071+51.00	NB	DL	25	12			33.3		
1084+69.00	NB	DL	6	12	8.0				
1108+16.00	NB	DL	10	12	13.3				
1108+16.00	SB	DL	10	12	13.3				
1112+72.00	NB	DL	6	12	8.0				
1112+72.00	SB	DL	6	12	8.0				
1152+12.00	NB	DL	6	12	8.0				
1152+12.00	SB	DL	6	12	8.0				
1176+23.00	NB	DL	6	12	8.0				
1176+23.00	SB	DL	6	12	8.0				
1195+80.00	NB	DL	6	12	8.0				
1195+80.00	SB	DL	6	12	8.0				
1199+77.00	NB	DL	6	12	8.0				
1199+77.00	SB	DL	6	12	8.0				
1200+63.00	NB	DL	10	12	13.3				
1206+96.00	NB	DL	6	12	8.0				
1206+96.00	SB	DL	6	12	8.0				
1222+98.00	NB	DL	6	12				8.0	
1222+98.00	SB	DL	6	12				8.0	
1224+79.00	NB	DL	8	12				10.7	
1224+79.00	SB	DL	6	12				8.0	
1225+80.00	NB	DL	6	12				8.0	
1225+80.00	SB	DL	6	12				8.0	
1226+81.00	NB	DL	6	12				8.0	
1226+81.00	SB	DL	6	12				8.0	
				SUBTOTAL =	421.3	68.0	126.7	66.7	0.0

FULL DEPTH PATCHING									
STATION	NB/SB	LANE	LENGTH	WIDTH	CLASS D PATCHES				
					44201815 TYPE II 14 INCH	44201819 TYPE III 14 INCH	44201821 TYPE IV 14 INCH	44201803 TYPE II 13INCH	44201807 TYPE III 13 INCH
			(FOOT)	(FOOT)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
1228+84.00	NB	DL	8	12				10.7	
1228+84.00	SB	DL	8	12				10.7	
1229+82.00	NB	DL	6	12				8.0	
1229+82.00	SB	DL	6	12				8.0	
1230+89.00	NB	DL	6	12				8.0	
1230+89.00	SB	DL	6	12				8.0	
1239+75.00	NB	DL	6	12				8.0	
1239+75.00	SB	DL	6	12				8.0	
1242+89.00	NB	DL	12	12					16.0
1242+89.00	SB	DL	12	12					16.0
1243+74.00	NB	DL	8	12				10.7	
1243+89.00	SB	DL	8	12				10.7	
1245+77.00	NB	DL	8	12				10.7	
1245+77.00	SB	DL	8	12				10.7	
1247+79.00	NB	DL	6	12				8.0	
1247+79.00	SB	DL	6	12				8.0	
1249+79.00	NB	DL	8	12				10.7	
1249+79.00	SB	DL	8	12				10.7	
1251+80.00	NB	DL	6	12				8.0	
1251+80.00	SB	DL	6	12				8.0	
1258+86.00	NB	DL	8	12				10.7	
1258+86.00	SB	DL	8	12				10.7	
1260+86.00	NB	DL	6	12				8.0	
1260+86.00	SB	DL	6	12				8.0	
1263+89.00	NB	DL	6	12				8.0	
1263+89.00	SB	DL	6	12				8.0	
1267+92.00	NB	DL	6	12				8.0	
1267+92.00	SB	DL	6	12				8.0	
1268+93.00	NB	DL	6	12				8.0	
1268+93.00	SB	DL	6	12				8.0	
1269+95.00	NB	DL	6	12				8.0	
1269+95.00	SB	DL	6	12				8.0	
1270+97.00	NB	DL	6	12				8.0	
1270+97.00	SB	DL	6	12				8.0	
1272+95.00	NB	DL	6	12				8.0	
1272+95.00	SB	DL	6	12				8.0	
1273+95.00	NB	DL	6	12				8.0	
1273+95.00	SB	DL	6	12				8.0	
1275+94.00	NB	DL	10	12				13.3	
1275+94.00	SB	DL	10	12				13.3	
1276+95.00	NB	DL	10	12				13.3	
1277+98.00	NB	DL	8	12				10.7	
1277+98.00	SB	DL	8	12				10.7	
1278+97.00	NB	DL	6	12				8.0	
1279+99.00	NB	DL	8	12				10.7	
1281+98.00	NB	DL	6	12				8.0	
1281+98.00	SB	DL	6	12				8.0	
1282+98.00	NB	DL	6	12				8.0	
1282+98.00	SB	DL	6	12				8.0	
1283+97.00	NB	DL	6	12				8.0	
1284+41.00	NB	DL	6	12				8.0	
1284+99.00	NB	DL	8	12				10.7	
1285+99.00	NB	DL	6	12				8.0	
1285+99.00	SB	DL	6	12				8.0	
1287+00.00	NB	DL	6	12				8.0	
1288+00.00	NB	DL	6	12				8.0	
1288+00.00	SB	DL	6	12				8.0	
1289+00.00	NB	DL	6	12				8.0	
1289+00.00	SB	DL	6	12				8.0	
1291+00.00	NB	DL	6	12				8.0	
1291+00.00	SB	DL	6	12				8.0	
				SUBTOTAL =	0.0	0.0	0.0	525.3	32.0

FULL DEPTH PATCHING									
STATION	NB/SB	LANE	LENGTH	WIDTH	CLASS D PATCHES				
					44201815 TYPE II 14 INCH	44201819 TYPE III 14 INCH	44201821 TYPE IV 14 INCH	44201803 TYPE II 13INCH	44201807 TYPE III 13 INCH
			(FOOT)	(FOOT)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
1292+02.00	NB	DL	6	12				8.0	
1292+02.00	SB	DL	6	12				8.0	
1294+05.00	NB	DL	6	12				8.0	
1294+05.00	SB	DL	6	12				8.0	
1295+03.00	NB	DL	6	12				8.0	
1295+03.00	SB	DL	6	12				8.0	
1296+04.00	NB	DL	6	12				8.0	
1296+04.00	SB	DL	6	12				8.0	
1299+06.00	NB	DL	6	12				8.0	
1299+06.00	SB	DL	6	12				8.0	
1303+09.00	NB	DL	6	12				8.0	
1303+09.00	SB	DL	6	12				8.0	
1308+14.00	NB	DL	6	12				8.0	
1308+14.00	SB	DL	6	12				8.0	
1310+12.00	NB	DL	6	12				8.0	
1310+12.00	SB	DL	6	12				8.0	
1316+14.00	NB	DL	6	12				8.0	
1316+14.00	SB	DL	6	12				8.0	
1319+15.00	NB	DL	6	12				8.0	
1319+15.00	SB	DL	6	12				8.0	
1332+34.00	NB	DL	15	12					20.0
1334+35.00	NB	DL	6	12				8.0	
1341+30.00	NB	DL	10	12				13.3	
1341+30.00	SB	DL	10	12				13.3	
1349+34.00	NB	DL	10	12				13.3	
1349+34.00	SB	DL	10	12				13.3	
1355+34.00	NB	DL	6	12				8.0	
1355+34.00	SB	DL	6	12				8.0	
1375+79.00	NB	DL	6	12				8.0	
1375+79.00	SB	DL	6	12				8.0	
1379+31.00	NB	DL	6	12				8.0	
1395+27.00	NB	DL	12	12					16.0
1395+27.00	SB	DL	10	12				13.3	
1396+27.00	NB	DL	10	12				13.3	
1396+27.00	SB	DL	10	12				13.3	
1412+26.00	NB	DL	6	12				8.0	
1434+35.00	SB	DL	6	12				8.0	
1434+35.00	NB	DL	6	12				8.0	
				SUBTOTAL =	0.0	0.0	0.0	325.3	36.0
				TOTAL =	421.3	68.0	126.7	917.3	68.0
				ROUNDED TOTAL =	421	68	127	918	68

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D5708 39-sht-schedule.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - ASG	REVISED -	
$MODELNAME$	PLOT SCALE = 40.0000 ' / in.	CHECKED - RTC	REVISED -	
	PLOT DATE = 3/17/2015	DATE - 02/23/15	REVISED -	

SCHEDULE OF QUANTITIES

SCALE: | SHEET 4 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	15
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
ILLINOIS	FED. AID PROJECT			

SCHEDULE OF QUANTITIES

SHEET 5 OF 9

GUARDRAIL & TRAFFIC BARRIER SCHEDULE

LOCATION				63000001 SPBGR TYPE A, 6 FT POSTS	63000003 SPBGR TYPE A, 9 FT POSTS	63000005 SPBGR TYPE B	63000009 SPBGR TYPE B 9 FT POSTS	63000025 SPBGR ATTACHED TO STRUCTURES	63100045 TBT TYPE 2	63100085 TBT TYPE 6	63100167 TBT TYPE 1 (SPEC) TANG	78201000 TERMINAL MARKER DIR APP	63200310 GUARDRAIL REMOVAL	X6330725 SPBGR (SHORT RADIUS)
SIDE	STATION	TO	STATION	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)	(FOOT)
BOX CULVERT AT 1090+12														
RT	1087+14.40		1090+42.30										327.9	
RT	1088+00.00		1088+50.00								1.0	1.0		
RT	1088+50.00		1091+50.00		300.0									
RT	1091+50.00		1092+00.00								1.0	1.0		
LT	1088+50.00		1089+00.00								1.0	1.0		
LT	1089+00.00		1091+50.00		250.0									
LT	1091+50.00		1092+00.00								1.0	1.0		
BOX CULVERT AT 1124+20														
LT	1123+59.06		1124+72.41										113.4	
LT	1122+73.45		1123+23.45								1.0	1.0		
LT	1123+23.45		1123+98.45		75.0									
LT	1123+98.45		1124+10.95				12.5							
LT	1124+10.95		1124+23.45					12.5						
LT	1124+23.45		1124+35.95				12.5							
LT	1124+35.95		1125+10.95		75.0									
LT	1125+10.95		1125+60.95								1.0	1.0		
BOX CULVERT AT 1156+00														
RT	1155+26.61		1156+54.51										127.9	
RT	1153+97.48		1154+47.48								1.0	1.0		
RT	1154+47.48		1154+62.47											25.0
RT	1154+62.47								1.0					
RT	1155+02.68								1.0					
RT	1155+02.68		1155+15.97											25.0
RT	1155+15.97		1155+78.45	62.5										
RT	1155+78.45		1155+90.95			12.5								
RT	1155+90.95		1156+03.45					12.5						
RT	1156+03.45		1156+15.95			12.5								
RT	1156+15.95		1156+65.95								1.0	1.0		
LT	1155+39.50		1156+55.16										115.7	
LT	1155+28.45		1155+78.45								1.0	1.0		
LT	1155+78.45		1155+90.95			12.5								
LT	1155+90.95		1156+03.45					12.5						
LT	1156+03.45		1156+15.95			12.5								
LT	1156+15.95		1157+03.45	87.5										
LT	1157+03.45		1157+53.45								1.0	1.0		
			SUBTOTAL =	150.0	700.0	50.0	25.0	37.5	2.0	0.0	10.0	10.0	684.8	50.0

CONTINUED ON NEXT PAGE

FILE NAME =	USER NAME = piersonbr	DESIGNED - ASG	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D5708\DrawingData\Design\70839-sht-schedule.dgn		DRAWN - ASG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE - 02/23/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 5 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	16
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

SHEET 6 OF 9

GUARDRAIL & TRAFFIC BARRIER SCHEDULE (CONT.)														
LOCATION				63000001 SPBGR TYPE A, 6 FT POSTS	63000003 SPBGR TYPE A, 9 FT POSTS	63000005 SPBGR TYPE B	63000009 SPBGR TYPE B 9 FT POSTS	63000025 SPBGR ATTACHED TO STRUCTURES	63100045 TBT TYPE 2	63100085 TBT TYPE 6	63100167 TBT TYPE 1 (SPEC) TANG	78201000 TERMINAL MARKER DIR APP	63200310 GUARDRAIL REMOVAL	X6330725 SPBGR (SHORT RADIUS)
SIDE	STATION	TO	STATION	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)	(FOOT)
SN 023-0005 AT 1234+89.50														
RT	1232+04.73		1234+45.28										240.6	
RT	1232+61.82		1233+11.82								1.0	1.0		
RT	1232+99.35		1233+99.35		100.0									
RT	1233+86.82		1234+32.47							1.0				
RT	1235+33.42		1236+75.01										141.6	
RT	1235+46.61		1235+92.26							1.0				
RT	1235+92.26		1236+42.26								1.0	1.0		
LT	1232+54.80		1234+45.19										190.4	
LT	1233+11.82		1233+61.82								1.0	1.0		
LT	1233+61.82		1233+86.82		25.0									
LT	1233+86.82		1234+32.47							1.0				
LT	1235+33.94		1237+62.67										228.7	
LT	1235+46.61		1235+92.26							1.0				
LT	1235+92.26		1238+79.76		287.5									
LT	1238+79.76		1239+29.76								1.0	1.0		
SN 023-0004 AT 1421+58.00														
RT	1418+90.09		1421+06.20										216.1	
RT	1418+87.66		1419+37.66								1.0	1.0		
RT	1419+37.66		1420+50.16		112.5									
RT	1420+50.16		1420+95.81							1.0				
RT	1422+39.27		1423+83.51										144.2	
RT	1422+57.25		1423+02.90							1.0				
RT	1423+02.90		1423+52.90								1.0	1.0		
LT	1419+28.02		1420+69.27										141.3	
LT	1419+63.10		1420+13.10								1.0	1.0		
LT	1420+13.10		1420+58.75							1.0				
LT	1422+07.71		1424+46.00										238.3	
LT	1422+20.19		1422+65.84							1.0				
LT	1422+65.84		1423+40.84		75.0									
LT	1423+40.84		1423+90.84								1.0	1.0		
SUBTOTAL =				0.0	600.0	0.0	0.0	0.0	0.0	8.0	8.0	8.0	1,541.2	0.0
TOTAL =				150.0	1,300.0	50.0	25.0	37.5	2.0	8.0	18.0	18.0	2,226.0	50.0

78200410 GUARDRAIL MARKERS, TYPE A					
LOCATION				LENGTH	MARKERS TYPE A
	STATION	TO	STATION	(FOOT)	(EACH)
RT	1088+50.00		1092+00.00	350.0	5.0
LT	1089+00.00		1091+50.00	250.0	4.0
LT	1123+23.45		1125+10.95	187.5	4.0
RT	1155+15.97		1156+15.95	100.0	4.0
LT	1155+78.45		1157+03.45	125.0	4.0
RT	1232+99.35		1234+32.47	133.1	2.0
RT	1235+46.61		1235+92.26	45.6	1.0
LT	1233+61.82		1234+32.47	70.6	1.0
LT	1235+46.61		1238+79.76	333.1	5.0
RT	1419+37.66		1420+95.81	158.1	2.0
RT	1422+57.25		1423+02.90	45.6	1.0
LT	1420+13.10		1420+58.75	45.6	1.0
LT	1420+20.19		1423+40.84	320.6	5.0
			TOTAL =		39.0

SCHEDULE OF QUANTITIES

SHEET 7 OF 9

64200108 SHOULDER RUMBLE STRIPS, 8 INCH				
LOCATION				LENGTH
	STATION	TO	STATION	(FOOT)
RT	957+00.00		965+82.89	882.9
RT	966+34.38		979+90.22	1,355.8
RT	980+45.01		1006+89.67	2,644.7
RT	1007+54.35		1024+33.29	1,678.9
RT	1024+85.02		1033+68.01	883.0
RT	1034+55.26		1047+21.70	1,266.4
RT	1047+79.64		1058+56.96	1,077.3
RT	1058+95.65		1062+50.22	354.6
RT	1062+91.51		1074+30.36	1,138.9
RT	1074+71.64		1085+61.16	1,089.5
RT	1086+04.21		1097+58.20	1,154.0
RT	1097+97.77		1106+34.73	837.0
RT	1106+70.58		1116+22.18	951.6
RT	1116+62.84		1125+15.47	852.6
RT	1125+79.85		1140+51.70	1,471.8
RT	1141+20.85		1144+61.84	341.0
RT	1145+17.84		1147+32.41	214.6
RT	1147+71.92		1148+21.85	49.9
RT	1148+51.98		1154+83.47	631.5
RT	1155+19.25		1158+33.85	314.6
RT	1159+01.83		1159+26.78	24.9
RT	1159+70.80		1168+11.88	841.1
RT	1168+63.67		1179+92.43	1,128.8
RT	1180+50.81		1191+49.45	1,098.6
RT	1191+89.77		1218+77.61	2,687.8
RT	1219+24.24		1221+54.28	230.0
RT	1222+55.17		1234+09.01	1,153.8
RT	1235+69.99		1242+79.34	709.3
RT	1243+17.68		1243+66.84	49.2
RT	1244+07.33		1244+67.15	59.8
RT	1245+02.15		1246+62.53	160.4
RT	1247+30.09		1252+79.33	549.2
RT	1253+19.38		1255+97.62	278.2
RT	1256+37.61		1261+54.78	517.2
RT	1261+91.58		1274+64.22	1,272.6
RT	1275+26.34		1301+61.37	2,635.0
RT	1301+98.69		1328+38.67	2,640.0
RT	1328+83.10		1340+25.56	1,142.5
RT	1340+77.32		1356+28.07	1,550.8
RT	1356+95.24		1358+36.96	141.7
RT	1359+31.83		1361+67.46	235.6
RT	1362+28.53		1362+98.08	69.5
RT	1363+31.26		1365+52.96	221.7
RT	1366+17.05		1382+07.48	1,590.4
RT	1382+53.00		1385+35.13	282.1
RT	1386+64.53		1392+36.49	572.0
RT	1392+81.03		1396+13.31	332.3
RT	1396+60.09		1414+55.20	1,795.1
RT	1414+96.28		1420+24.00	527.7
RT	1422+92.00		1436+15.94	1,323.9
RT	1436+73.92		1449+56.38	1,282.5
RT	1449+98.19		1455+26.27	528.1
RT	1455+72.88		1463+28.63	755.8
RT	1463+69.95		1468+70.21	500.3
RT	1469+05.03		1477+17.67	812.6
			SUB TOTAL =	48,891.4

64200108 SHOULDER RUMBLE STRIPS, 8 INCH				
LOCATION				LENGTH
	STATION	TO	STATION	(FOOT)
LT	957+00.00		979+58.90	2,258.9
LT	980+10.35		985+96.04	585.7
LT	986+57.26		987+10.71	53.5
LT	987+78.53		991+40.36	361.8
LT	991+95.22		1000+97.89	902.7
LT	1001+43.61		1001+89.74	46.1
LT	1002+50.56		1007+38.05	487.5
LT	1008+53.36		1024+26.92	1,573.6
LT	1024+80.24		1027+92.62	312.4
LT	1028+81.20		1033+55.31	474.1
LT	1034+01.95		1042+79.47	877.5
LT	1043+27.07		1058+42.73	1,515.7
LT	1059+13.64		1060+67.61	154.0
LT	1061+41.88		1074+02.96	1,261.1
LT	1074+52.10		1087+12.73	1,260.6
LT	1087+55.79		1092+58.84	503.1
LT	1092+99.10		1097+46.71	447.6
LT	1097+96.30		1101+33.29	337.0
LT	1101+79.11		1114+11.32	1,232.2
LT	1114+69.84		1115+99.38	129.5
LT	1116+55.93		1140+70.78	2,414.9
LT	1141+15.59		1141+60.66	45.1
LT	1141+93.35		1148+35.69	642.3
LT	1148+87.54		1158+64.14	976.6
LT	1158+93.02		1168+07.48	914.5
LT	1168+68.75		1194+74.31	2,605.6
LT	1195+22.52		1218+40.47	2,318.0
LT	1219+03.63		1219+50.86	47.2
LT	1219+89.61		1221+10.29	120.7
LT	1222+37.63		1234+09.01	1,171.4
LT	1235+69.99		1239+69.95	400.0
LT	1240+15.72		1246+78.46	662.7
LT	1247+22.81		1248+94.40	171.6
LT	1249+36.04		1252+42.56	306.5
LT	1252+86.93		1253+95.13	108.2
LT	1254+39.76		1256+54.22	214.5
LT	1256+95.85		1259+37.82	242.0
LT	1259+84.40		1261+95.42	211.0
LT	1262+28.78		1266+03.06	374.3
LT	1266+53.00		1273+00.78	647.8
LT	1273+49.95		1274+34.12	84.2
LT	1275+25.27		1311+97.04	3,671.8
LT	1275+25.27		1311+97.04	3,671.8
LT	1312+41.98		1328+25.45	1,583.5
LT	1328+84.86		1340+25.56	1,140.7
LT	1340+77.32		1356+51.58	1,574.3
LT	1357+00.31		1361+69.91	469.6
LT	1362+30.32		1363+71.91	141.6
LT	1364+12.98		1365+69.46	156.5
LT	1366+41.03		1367+59.23	118.2
LT	1367+92.22		1374+14.95	622.7
LT	1374+61.49		1375+14.65	53.2
LT	1375+57.84		1382+12.20	654.4
LT	1382+55.84		1389+93.27	737.4
LT	1390+88.08		1392+31.84	143.8
			SUB TOTAL =	44,192.6

64200108 SHOULDER RUMBLE STRIPS, 8 INCH				
LOCATION				LENGTH
	STATION	TO	STATION	(FOOT)
LT	1392+73.61		1404+77.49	1,203.9
LT	1405+26.32		1414+13.17	886.9
LT	1414+52.21		1415+33.53	81.3
LT	1416+83.10		1420+24.00	340.9
LT	1422+92.00		1433+90.19	1,098.2
LT	1434+37.71		1454+17.11	1,979.4
LT	1454+57.95		1463+42.71	884.8
LT	1463+76.97		1475+99.00	1,222.0
LT	1476+54.85		1477+17.67	62.8
			SUB TOTAL =	7,760.1
			TOTAL =	100,844.1
			ROUNDED TOTAL =	100.845

SCHEDULE OF QUANTITIES

SHEET 8 OF 9

WORK ZONE PAVEMENT MARKING SCHEDULE								
LOCATION						70300100 SHORT TERM PAVEMENT MARKINGS (2-APPS)	70300220 TEMPORARY PAVEMENT MARKING LINE - 4"	70301000 WORK ZONE PAVEMENT MARKING REMOVAL
	STATION	TO	STATION	TYPE / COLOR	# OF LINES	FOOT	FOOT	SQ FT
				WHITE				
RT	957+00.00		1006+89.67	EDGE / WHITE	1	-	4,989.7	1,663.2
RT	1007+54.35		1047+21.70	EDGE / WHITE	1	-	3,967.3	1,322.5
RT	1047+79.64		1144+61.84	EDGE / WHITE	1	-	9,682.2	3,227.4
RT	1145+17.84		1179+92.43	EDGE / WHITE	1	-	3,474.6	1,158.2
RT	1180+50.81		1221+54.28	EDGE / WHITE	1	-	4,103.5	1,367.8
RT	1222+55.17		1274+64.22	EDGE / WHITE	1	-	5,209.1	1,736.4
RT	1275+26.34		1361+67.46	EDGE / WHITE	1	-	8,641.1	2,880.4
RT	1362+28.53		1436+15.94	EDGE / WHITE	1	-	7,387.4	2,462.5
RT	1436+73.92		1477+17.67	EDGE / WHITE	1	-	4,043.8	1,347.9
LT	957+00.00		1060+67.61	EDGE / WHITE	1	-	10,367.6	3,455.9
LT	1061+41.88		1114+11.32	EDGE / WHITE	1	-	5,269.4	1,756.5
LT	1114+69.84		1168+07.48	EDGE / WHITE	1	-	5,337.6	1,779.2
LT	1168+68.75		1221+10.29	EDGE / WHITE	1	-	5,241.5	1,747.2
LT	1222+37.63		1274+34.12	EDGE / WHITE	1	-	5,196.5	1,732.2
LT	1275+25.27		1361+69.91	EDGE / WHITE	1	-	8,644.6	2,881.5
LT	1362+30.32		1415+33.53	EDGE / WHITE	1	-	5,303.2	1,767.7
LT	1416+03.10		1477+17.67	EDGE / WHITE	1	-	6,114.6	2,038.2
				YELLOW				
	957+00.00		1222+08.46	CL SKIP-DASH / YELLOW	1	5,301.7	6,627.1	3,092.65
STA EQ	1222+08.46 (BK)		1222+15.00 (AH)					
	1222+15.00		1475+85.00	CL SKIP-DASH / YELLOW	1	5,074.0	6,342.5	2,959.83
	1217+54.00		1222+08.46	NB NO PASSING ZONE	1	-	454.5	151.5
STA EQ	1222+08.46 (BK)		1222+15.00 (AH)					
	1222+15.00		1224+42.00	NB NO PASSING ZONE	1	-	227.0	75.7
	1228+25.00		1234+38.00	SB NO PASSING ZONE	1	-	613.0	204.3
	1236+70.00		1245+57.00	NB NO PASSING ZONE	1	-	887.0	295.7
	1247+69.00		1255+73.00	SB NO PASSING ZONE	1	-	804.0	268.0
	1471+37.67		1475+85.00	NB NO PASSING ZONE	1	-	447.3	149.1
	1475+85.00		1477+17.76	YELLOW THERMO	4	106.2	531.0	17.7
					TOTAL =	10,481.9	119,907.2	41,539.0
					ROUNDED TOTAL =	10,482	119,908	41,540

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		DRAWN - ASG	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/17/2015	DATE - 02/23/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 8 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	19
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
ILLINOIS	FED. AID PROJECT			

SCHEDULE OF QUANTITIES

SHEET 9 OF 9

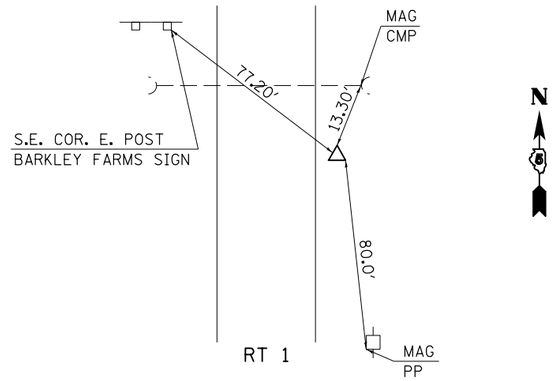
PAVEMENT MARKING SCHEDULE										
LOCATION				DESCRIPTION		78000200 THERMOPLASTIC PAVEMENT MARKING LINE 4"	78000600 THERMOPLASTIC PAVEMENT MARKING LINE 12"	78001110 PAINT PAVEMENT MARKING LINE 4"	X7830070 GROOVING FOR RECESSED PAVEMENT MARKING 5"	X7830078 GROOVING FOR RECESSED PAVEMENT MARKING 13"
	STATION	TO	STATION	TYPE / COLOR	# OF LINES	FOOT	FOOT	FOOT	FOOT	FOOT
WHITE										
RT	957+00.00		1006+89.67	EDGE / WHITE	1	-	-	4,989.7	-	-
RT	1007+54.35		1047+21.70	EDGE / WHITE	1	-	-	3,967.3	-	-
RT	1047+79.64		1144+61.84	EDGE / WHITE	1	-	-	9,682.2	-	-
RT	1145+17.84		1179+92.43	EDGE / WHITE	1	-	-	3,474.6	-	-
RT	1180+50.81		1221+54.28	EDGE / WHITE	1	-	-	4,103.5	-	-
RT	1222+55.17		1274+64.22	EDGE / WHITE	1	-	-	5,209.1	-	-
RT	1275+26.34		1361+67.46	EDGE / WHITE	1	-	-	8,641.1	-	-
RT	1362+28.53		1436+15.94	EDGE / WHITE	1	-	-	7,387.4	-	-
RT	1436+73.92		1477+17.67	EDGE / WHITE	1	-	-	4,043.8	-	-
LT	957+00.00		1060+67.61	EDGE / WHITE	1	-	-	10,367.6	-	-
LT	1061+41.88		1114+11.32	EDGE / WHITE	1	-	-	5,269.4	-	-
LT	1114+69.84		1168+07.48	EDGE / WHITE	1	-	-	5,337.6	-	-
LT	1168+68.75		1221+10.29	EDGE / WHITE	1	-	-	5,241.5	-	-
LT	1222+37.63		1274+34.12	EDGE / WHITE	1	-	-	5,196.5	-	-
LT	1275+25.27		1361+69.91	EDGE / WHITE	1	-	-	8,644.6	-	-
LT	1362+30.32		1415+33.53	EDGE / WHITE	1	-	-	5,303.2	-	-
LT	1416+03.10		1477+17.67	EDGE / WHITE	1	-	-	6,114.6	-	-
YELLOW										
	957+00.00		1222+08.46	CL SKIP-DASH / YELLOW	1	-	-	6,627.1	-	-
STA EQ	1222+08.46 (BK)		1222+15.00 (AH)							
	1222+15.00		1475+85.00	CL SKIP-DASH / YELLOW	1	-	-	6,342.5	-	-
	1217+54.00		1222+08.46	NB NO PASSING ZONE	1	-	-	454.5	-	-
STA EQ	1222+08.46 (BK)		1222+15.00 (AH)							
	1222+15.00		1224+42.00	NB NO PASSING ZONE	1	-	-	227.0	-	-
	1228+25.00		1234+38.00	SB NO PASSING ZONE	1	-	-	613.0	-	-
	1236+70.00		1245+57.00	NB NO PASSING ZONE	1	-	-	887.0	-	-
	1247+69.00		1255+73.00	SB NO PASSING ZONE	1	-	-	804.0	-	-
	1471+37.67		1475+85.00	NB NO PASSING ZONE	1	-	-	447.3	-	-
	1475+85.00		1477+17.76	YELLOW THERMO	4	531.0	-	-	531.0	-
	1475+85.00		1477+17.76	DIAGONALS		-	9.0	-	-	9.0
					TOTAL =	531.0	9.0	119,376.2	531.0	9.0
					ROUNDED TOTAL =	531	9	119,376	531	9

RAISED REFLECTIVE PAVEMENT MARKERS						
				78100100 TWO-WAY AMBER	78100105 TWO-WAY AMBER	78300200 RRPM REMOVAL
STATION	TO	STATION	FOOT	EACH	EACH	EACH
957+00.00		1222+08.46	26,508.5	331	-	331
1222+08.46 (BK)	=	1222+15.00 (AH)				
1222+15.00		1234+08.74	1,193.7	15	-	15
1234+08.74		1235+70.26	161.5	-	2	2
1235+70.26		1420+24.00	18,453.7	231	-	231
1420+24.00		1422+92.00	268.0	-	3	3
1422+92.00		1475+85.00	5,293.0	66	-	66
1475+85.00		1477+17.76	132.8	10	-	10
			TOTAL =	653	5	658
			ROUNDED TOTAL =	653	5	658

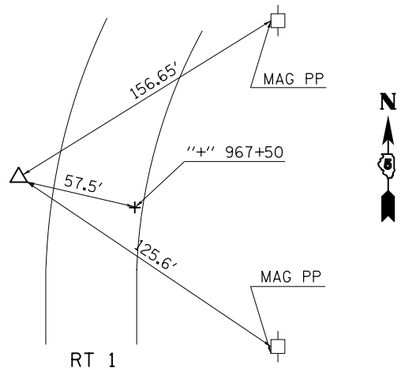
XZ193400 SURVEY MARKER, TYPE 2 (SPECIAL)			
DESCRIPTION	STATION	EXISTING TYPE	EACH
PC	963+04.24	MAG NAIL	1.0
PT	973+02.58	MAG NAIL	1.0
PC	1030+54.33	MAG NAIL	1.0
PI	1035+54.80	MAG NAIL	1.0
PT	1040+55.26	MAG NAIL	1.0
PC	1064+98.60	MAG NAIL	1.0
PI	1069+98.60	MAG NAIL	1.0
PT	1074+98.60	MAG NAIL	1.0
PC	1162+86.05	MAG NAIL	1.0
PI	1166+86.83	MAG NAIL	1.0
PT	1170+87.17	MAG NAIL	1.0
PC	1245+96.00	MAG NAIL	1.0
PI	1250+96.00	MAG NAIL	1.0
PT	1255+95.24	MAG NAIL	1.0
PC	1274+90.93	MAG NAIL	1.0
PT	1294+88.60	MAG NAIL	1.0
PC	1344+54.92	MAG NAIL	1.0
PT	1454+37.92	MAG NAIL	1.0
		TOTAL =	18.0

ALIGNMENT, TIE POINTS AND BENCHMARKS

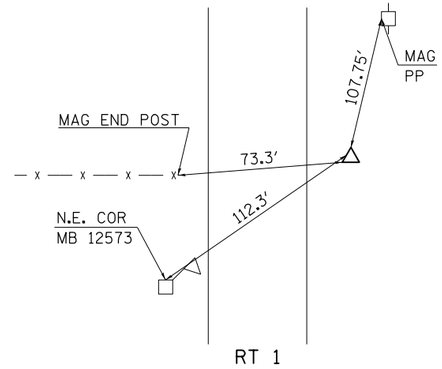
TS 400 IP W/CAP
STA. 956 + 17.42, 23.54′ RT.



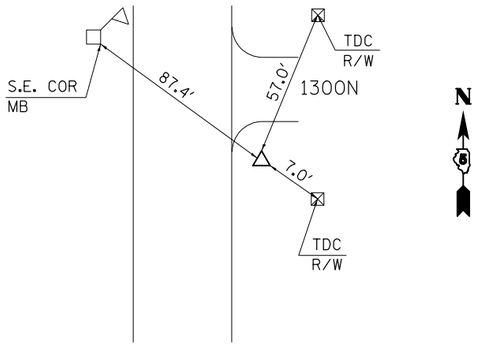
TS 401 IP W/CAP
STA. 967 + 97.79, –22.31′ LT.



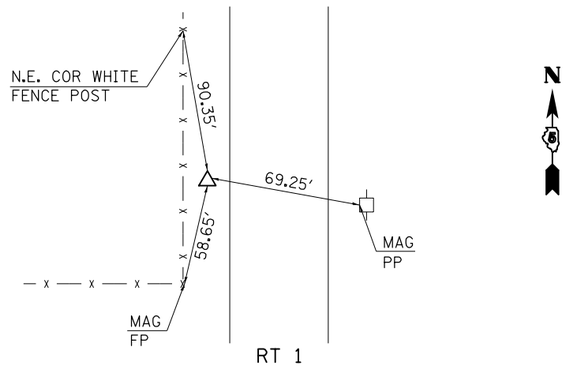
TS 402 IP W/CAP
STA. 988 + 43.75, 21.46′ RT.



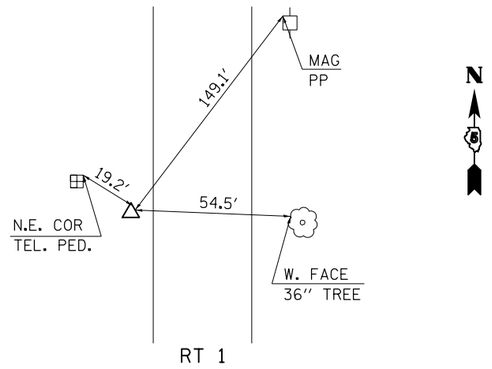
TS 403 IP W/CAP
STA. 1007 + 00.68, 33.38′ RT.



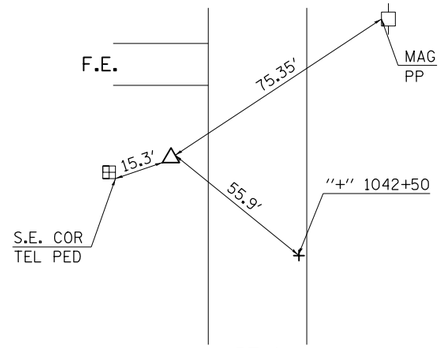
TS 404 IP W/CAP
STA. 1027 + 13.18, –25.11′ LT.



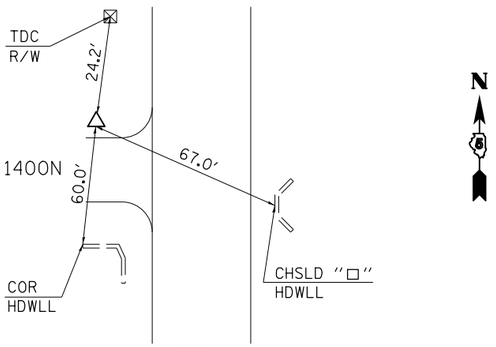
BIS–42 DISK IN CONC.
STA. 1035 + 07.23, –22.20′ LT.



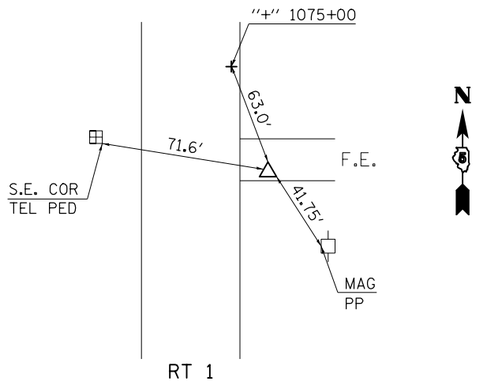
TS 405 IP W/CAP
STA. 1042 + 93.18, –24.15′ LT.



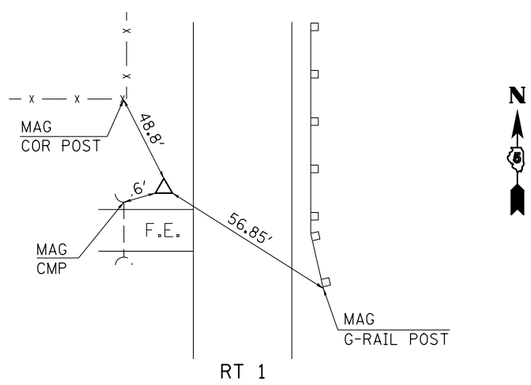
TS 406 IP W/CAP
STA. 1061 + 25.67, –32.84′ LT.



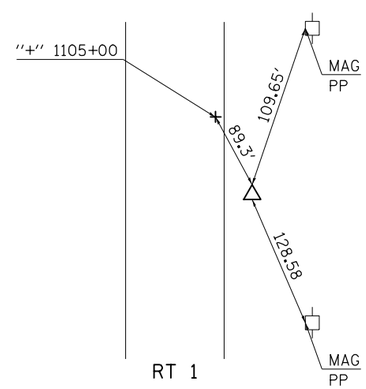
TS 407 IP W/CAP
STA. 1074 + 39.68, 25.10′ RT.



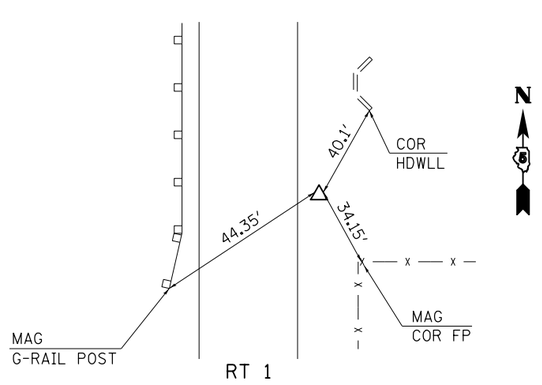
TS 408 IP W/CAP
STA. 1087 + 54.09, –21.39′ LT.



TS 409 IP W/CAP
STA. 1104 + 08.96, 23.97′ RT.



TS 410 IP W/CAP
STA. 1123 + 69.23, 22.74′ RT.



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	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

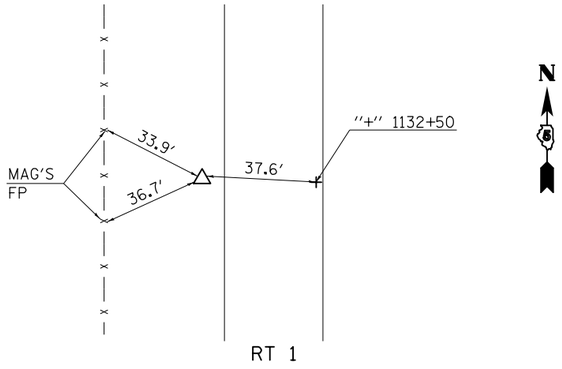
ALIGNMENTS, TIE POINTS AND BENCHMARKS

SCALE: NONE | SHEET 1 OF 6 SHEETS | STA. | TO STA.

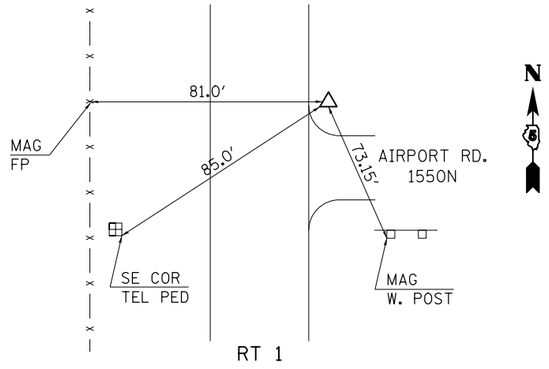
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	21
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

ALIGNMENT, TIE POINTS AND BENCHMARKS

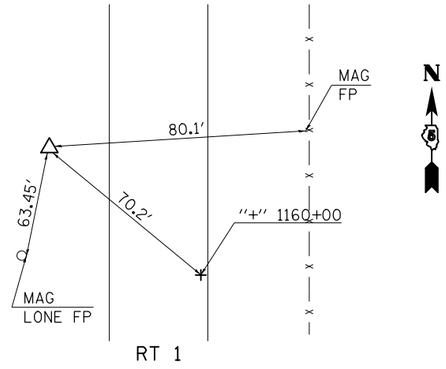
TS 411 IP W/CAP
STA. 1132 + 51.50, –24.18' LT.



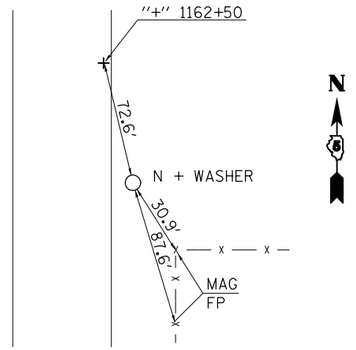
TS 412 IP W/CAP
STA. 1145 + 19.64, 29.15' RT.



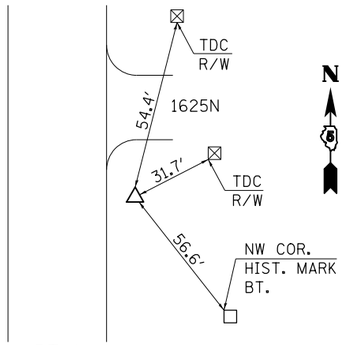
TS 413 IP W/CAP
STA. 1160 + 55.11, –22.87' LT.



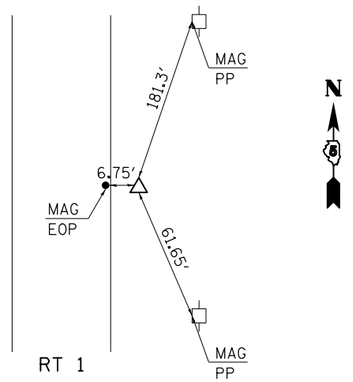
BIS 41 DISK IN CONC.
STA. 1161 + 73.68, 21.23' RT.



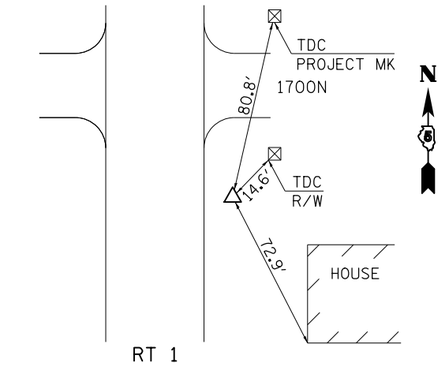
TS 414 IP W/CAP
STA. 1179 + 89.66, 21.13' RT.



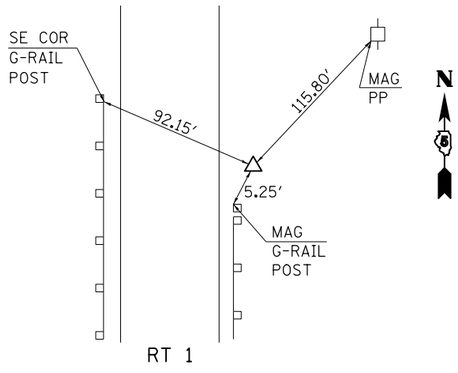
TS 415 IP W/CAP
STA. 1198 + 93.94, 21.35' RT.



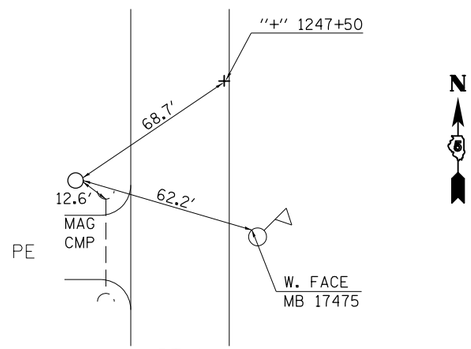
TS 416 IP W/CAP
STA. 1221 + 47.96, 27.57' RT.



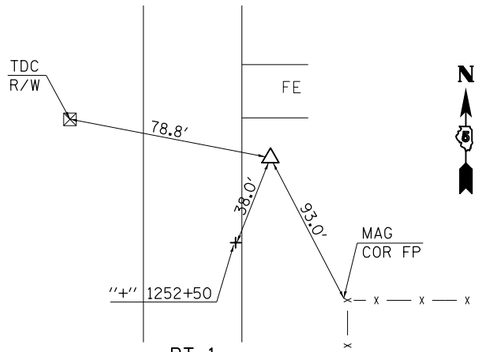
TS 417 IP W/CAP
STA. 1236 + 78.38, 21.00' RT.



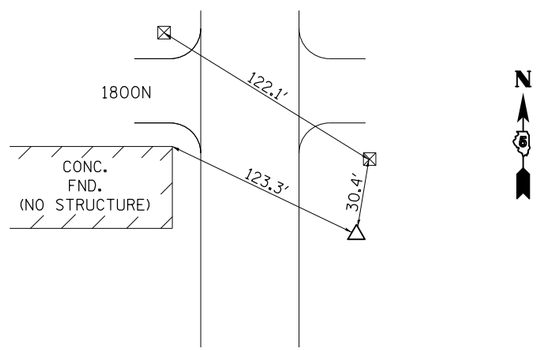
BIS–40 DISK IN CONC.
STA. 1247 + 10.94, –41.51' LT.



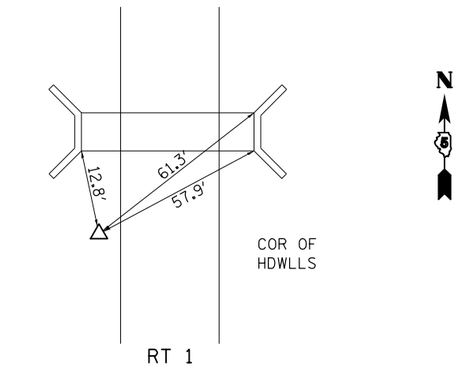
TS 418 IP W/CAP
STA. 1252 + 84.43, 24.44' RT.



NGS IE 105, TS 419 ROD IN VAULT
STA. 1274 + 42.97, 42.33' RT.



TS 420 IP W/CAP
STA. 1294 + 87.94, –26.38' LT.



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$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

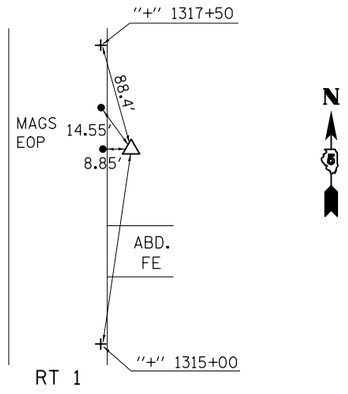
ALIGNMENTS, TIE POINTS AND BENCHMARKS

SCALE: NONE | SHEET 2 OF 6 SHEETS | STA. | TO STA.

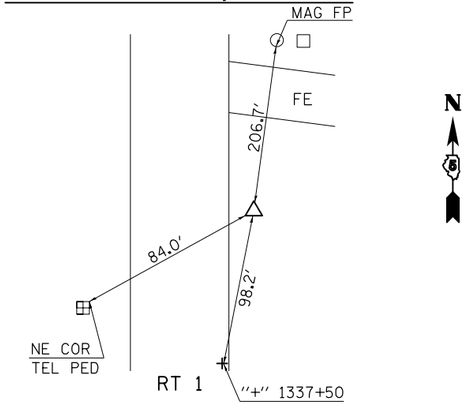
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	22
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS	FED. AID PROJECT		

ALIGNMENT, TIE POINTS AND BENCHMARKS

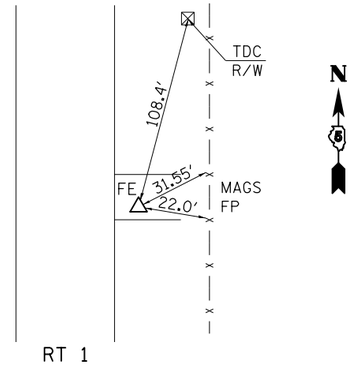
TS 421 IP W/CAP
STA. 1316 + 60.82, 23.22' RT.



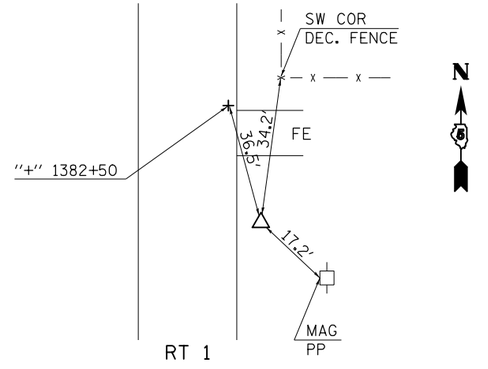
TS 422 IP W/CAP
STA. 1338 + 48.77, 23.23' RT.



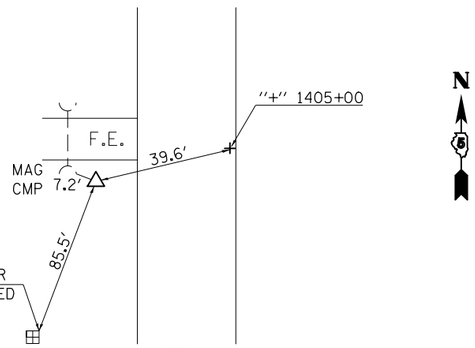
TS 423 IP W/CAP
STA. 1360 + 69.36, 28.99' RT.



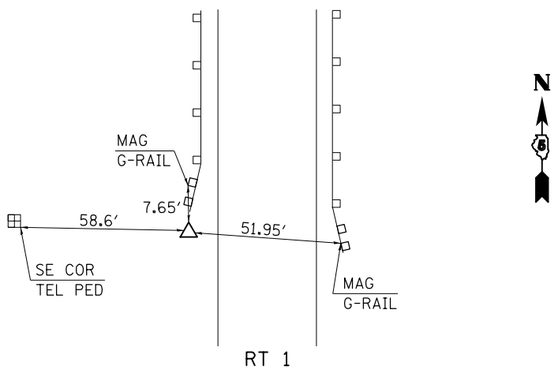
TS 424 IP W/CAP
STA. 1382 + 19.71, 34.08' RT.



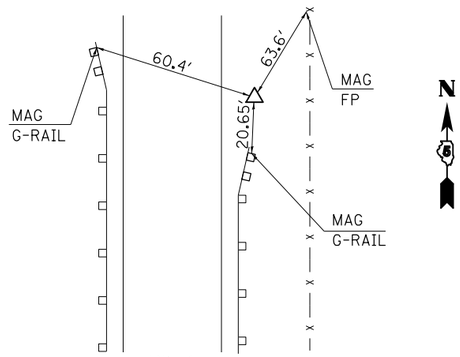
TS 425 IP W/CAP
STA. 1404 + 89.75, –25.72' LT.



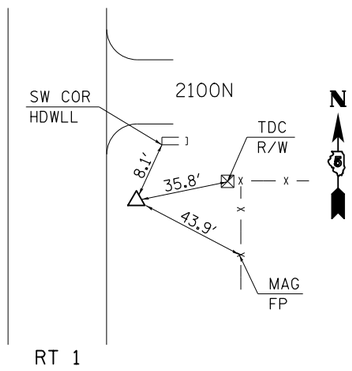
TS 426 IP W/CAP
STA. 1419 + 21.98, –20.51' LT.



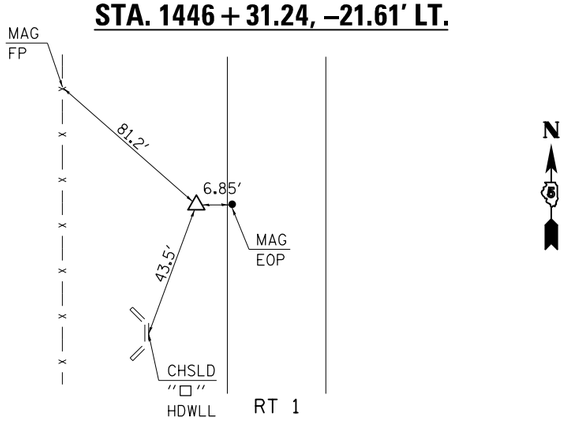
TS 427 IP W/CAP
STA. 1424 + 02.39, 22.38' RT.



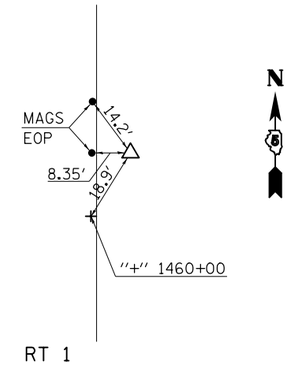
TS 428 IP W/CAP
STA. 1436 + 15.24, 24.72' RT.



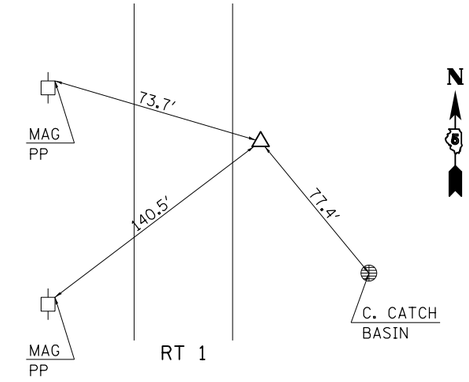
TS 429 IP W/CAP
STA. 1446 + 31.24, –21.61' LT.



TS 430 IP W/CAP
STA. 1460 + 16.69, 22.98' RT.



TS 431 IP W/CAP
STA. 1478 + 33.60, 26.97' RT.



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$MODELNAME$	PLOT DATE = 3/16/2015	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

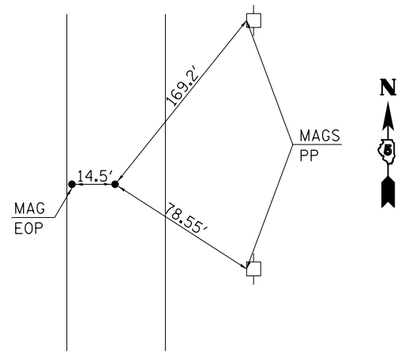
ALIGNMENTS, TIE POINTS AND BENCHMARKS

SCALE: NONE | SHEET 3 OF 6 SHEETS | STA. | TO STA.

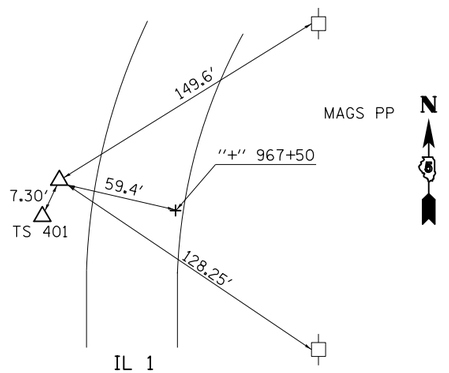
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	23
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS	FED. AID PROJECT		

ALIGNMENT, TIE POINTS AND BENCHMARKS

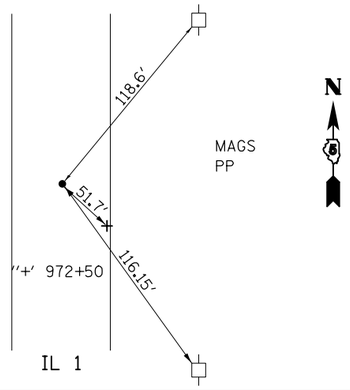
PC MAG
STA. 963 + 04.24



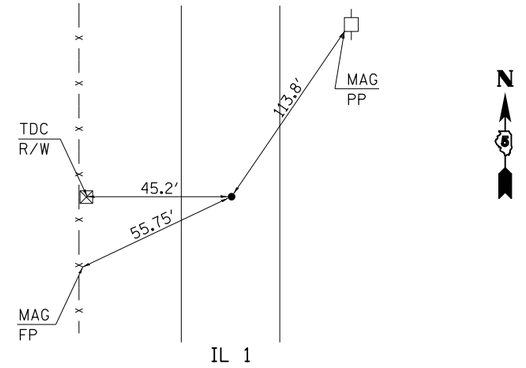
PI #292 IP W/CAP
STA. 968 + 04.24



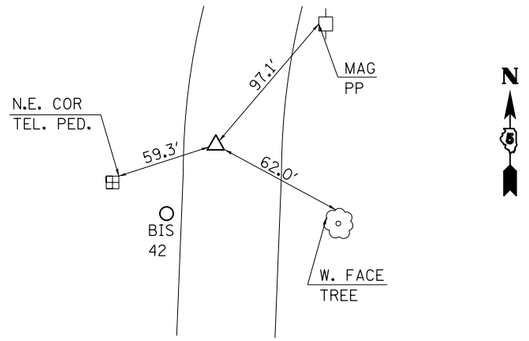
PT MAG
STA. 973 + 02.58



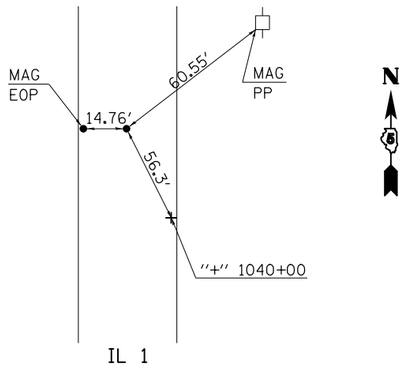
PC MAG
STA. 1030 + 54.33



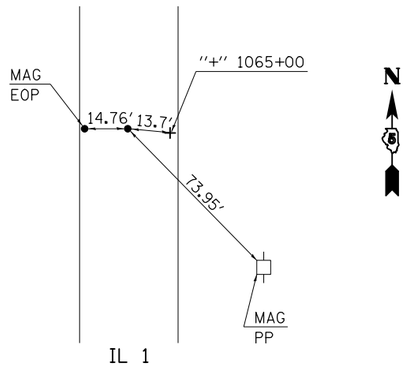
PI #294 MAG
STA. 1035 + 54.8



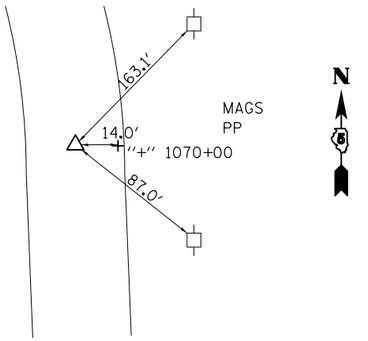
PT MAG
STA. 1040 + 55.26



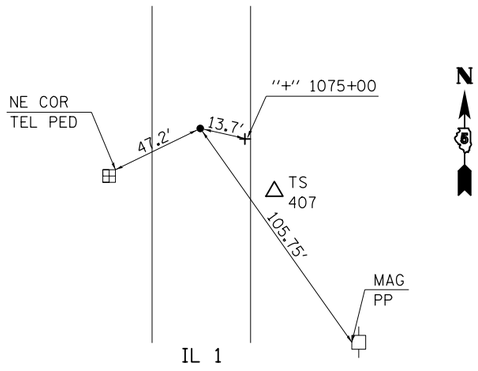
PC MAG
STA. 1064 + 98.6



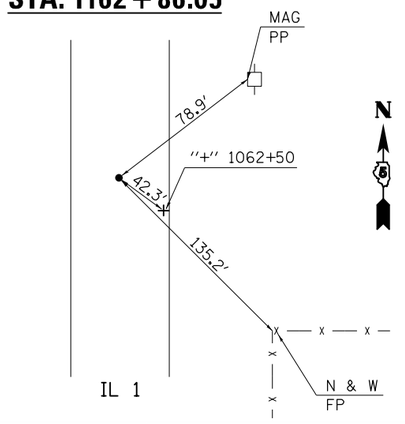
PI #235 MAG
STA. 1069 + 98.6



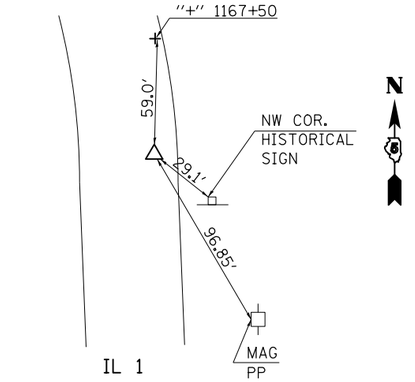
PT MAG
STA. 1074 + 98.6



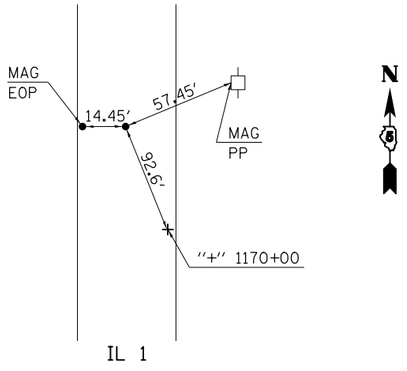
PC MAG
STA. 1162 + 86.05



PI #297 MAG
STA. 1166 + 86.83



PT
STA. 1170 + 87.17



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		DRAWN -	REVISED -
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$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

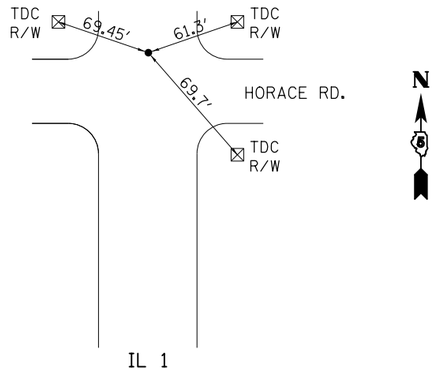
ALIGNMENTS, TIE POINTS AND BENCHMARKS

SCALE: NONE | SHEET 4 OF 6 SHEETS | STA. | TO STA.

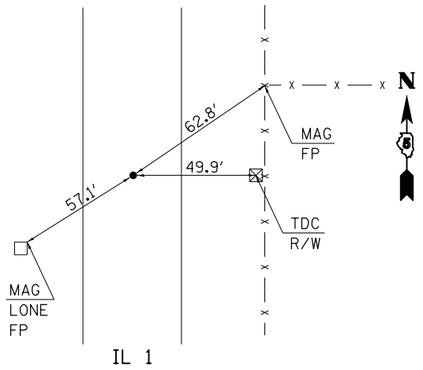
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	24
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

ALIGNMENT, TIE POINTS AND BENCHMARKS

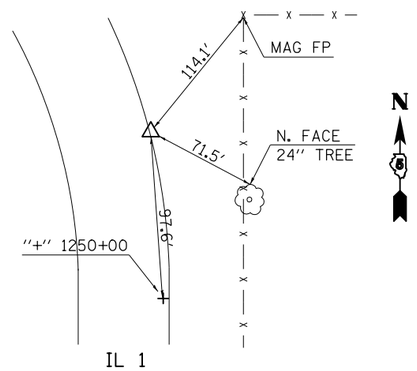
STA. EQU. 1222 + 08.46 BK. = 1222 + 15.00 AH, MAG, #2



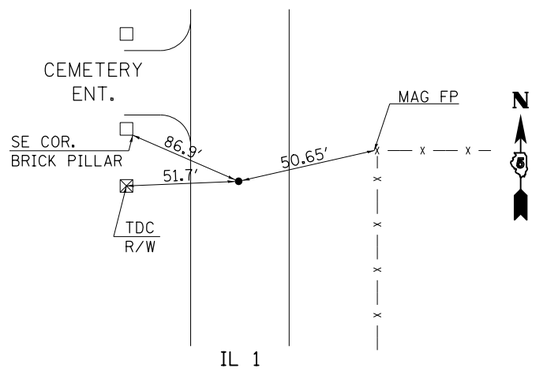
PC MAG
STA. 1245 + 96.00



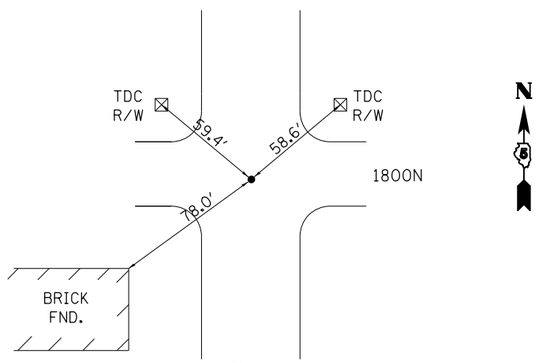
PI #298 MAG
STA. 1250 + 96.00



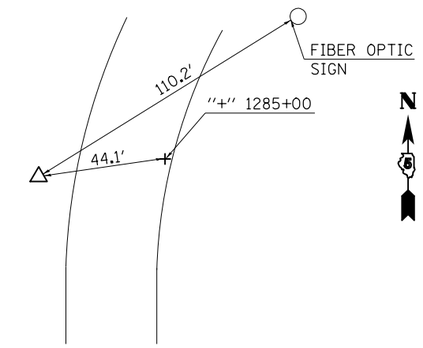
PT MAG
STA. 1255 + 95.24



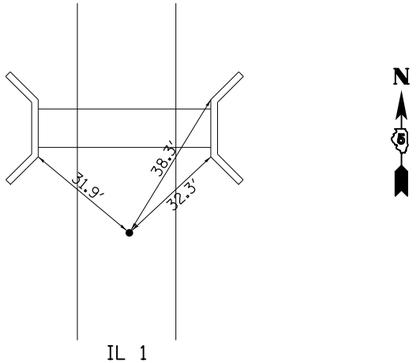
PC MAG
STA. 1274 + 90.93



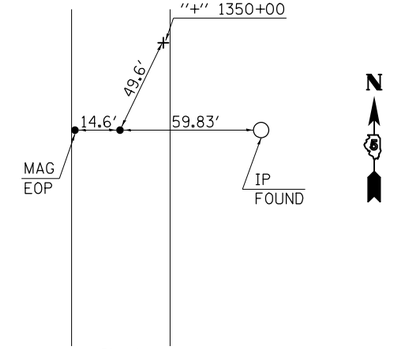
PI #243 IP W/CAP
STA. 1284 + 90.93



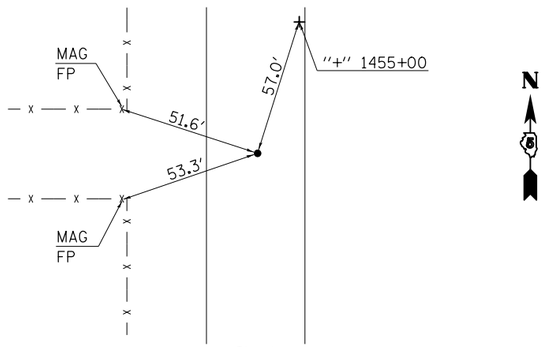
PT MAG
STA. 1294 + 88.60



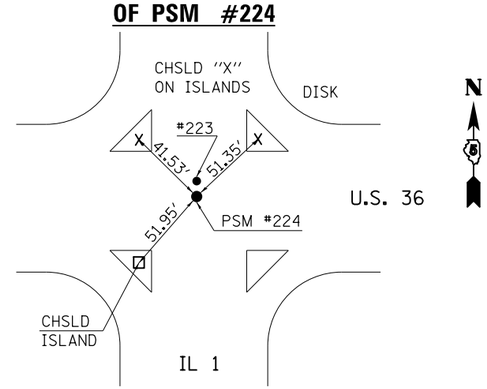
PC MAG
STA. 1344 + 54.92



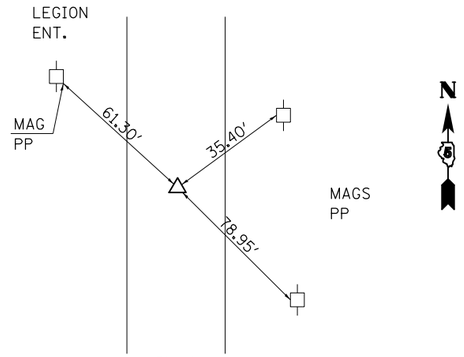
PT MAG
STA. 1454 + 37.92



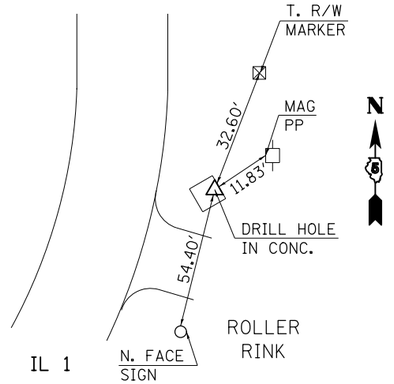
STA. 1484 + 54.85 #223 (NOT SET)
STA. 1484 + 54.55 #225
#223 ACTUAL INT PT 0.30' N. OF PSM #224



PI #3 IP FND
STA. 883 + 48.30



PI #59
STA. 926 + 21.80



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		DRAWN -	REVISED -
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$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

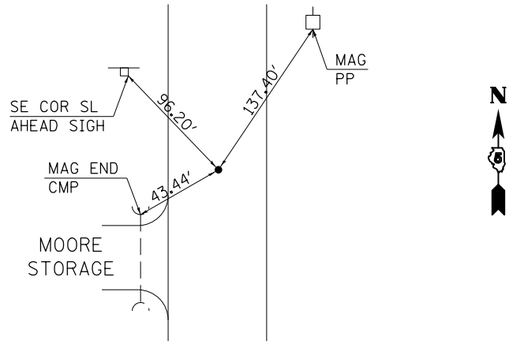
ALIGNMENTS, TIE POINTS AND BENCHMARKS

SCALE: NONE | SHEET 5 OF 6 SHEETS | STA. | TO STA.

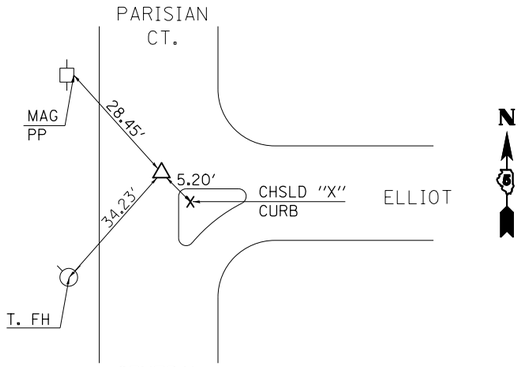
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	25
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

ALIGNMENT, TIE POINTS AND BENCHMARKS

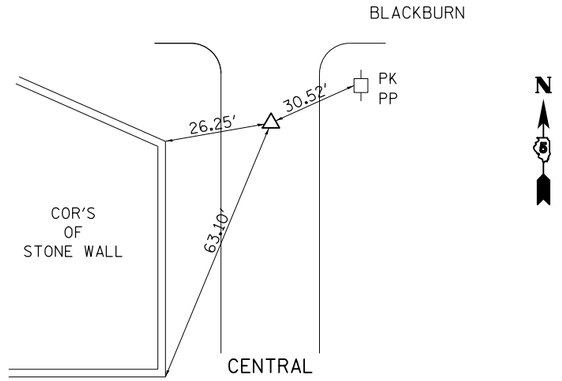
POT #1 IP FND.
STA. 949 + 23.83



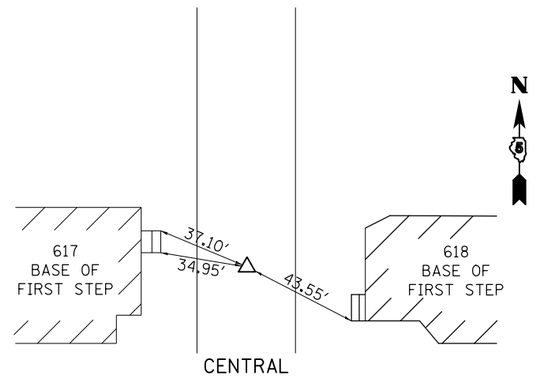
PI #17 MAG OVER IP
STA. 180 + 23.64



PI #61 IP FND
STA. 166 + 79.33



PI #62 IP FND
STA. 157 + 37.60



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$MODELNAME$	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

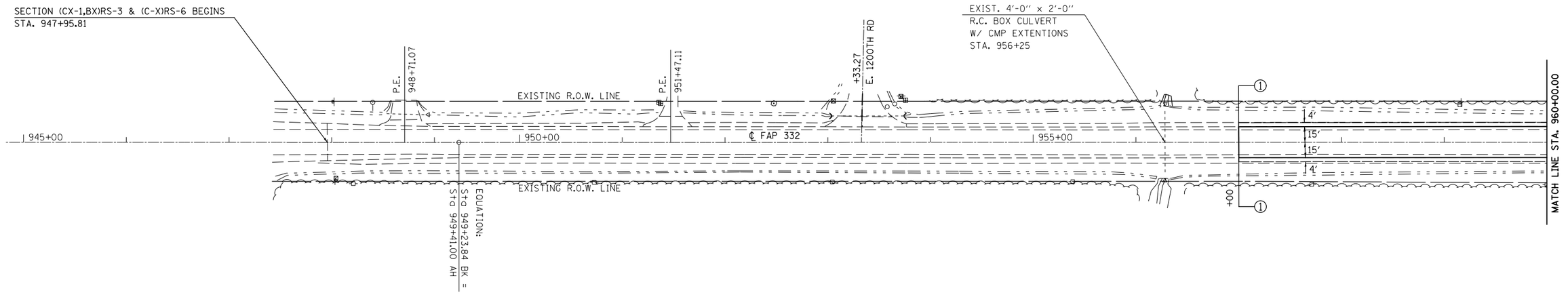
ALIGNMENTS, TIE POINTS AND BENCHMARKS

SCALE: NONE | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	26
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

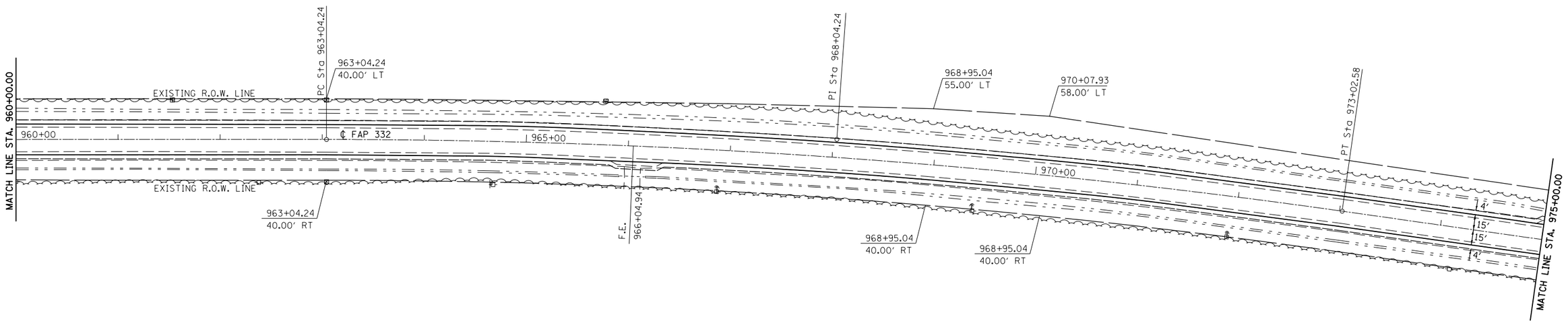
SEC. 25, T. 14 N., R. 12 W., 2ND P.M.

SEC. 24, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 24, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

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$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

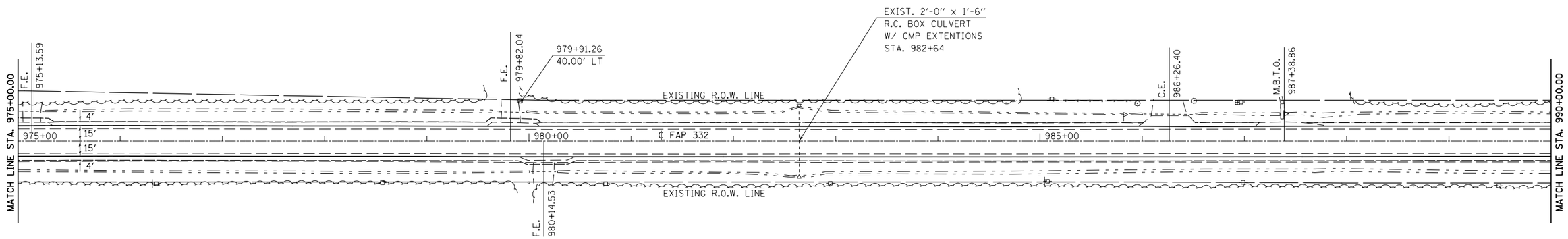
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 1 OF 18 SHEETS | STA. 945+00.00 TO STA. 975+00.00

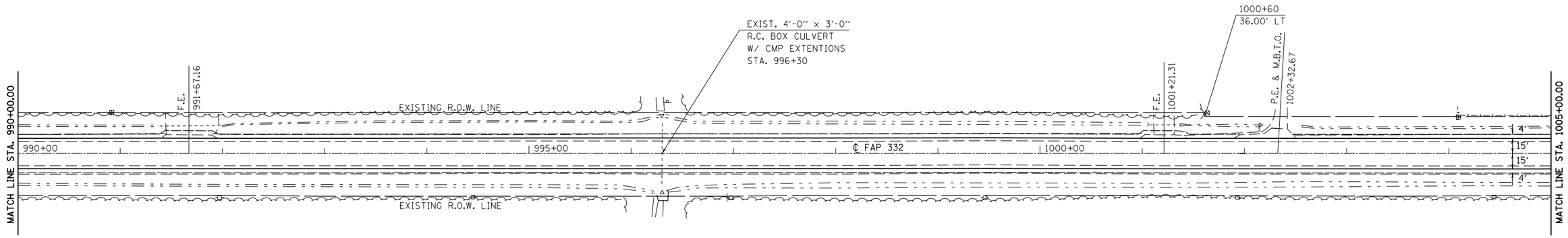
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	27
	•(CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 24, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 24, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

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$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

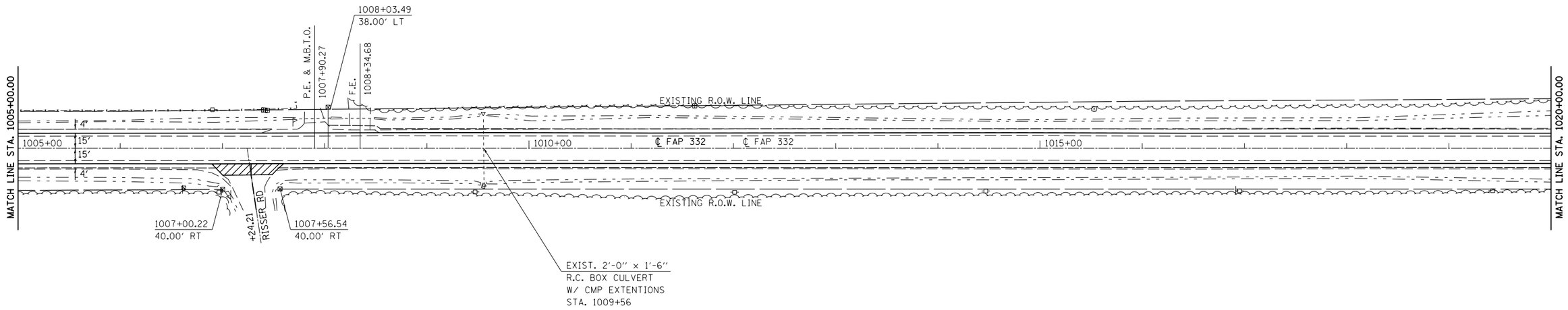
PLAN SHEET

SCALE: 1" = 50' | SHEET 2 OF 18 SHEETS | STA. 975+00.00 TO STA. 1005+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	28
	•((CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

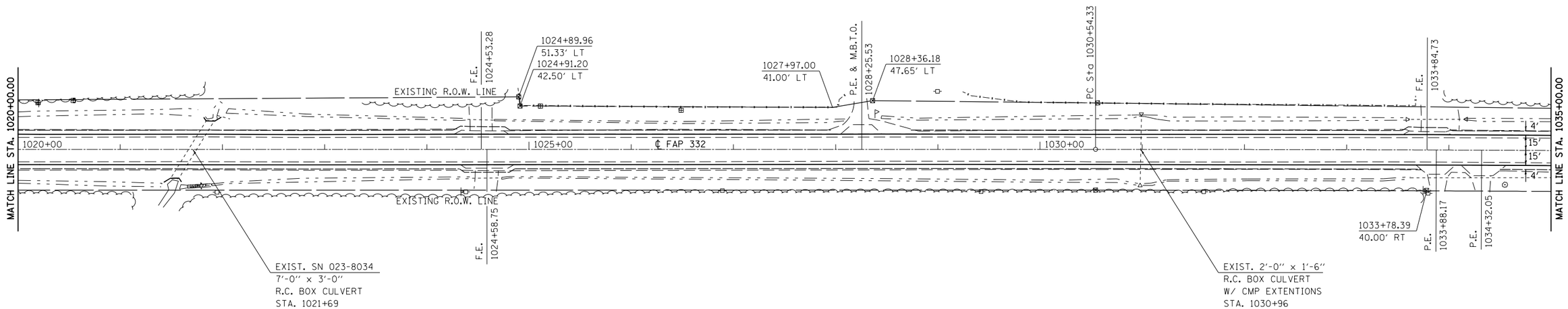
SEC. 24, T. 14 N.,
R. 12 W., 2ND P.M.

SEC. 13, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 13, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

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$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

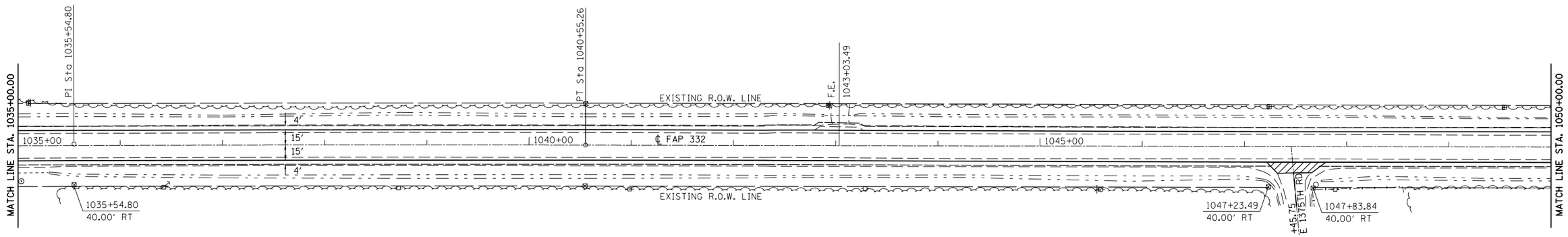
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 3 OF 18 SHEETS | STA. 1005+00.00 TO STA. 1035+00.00

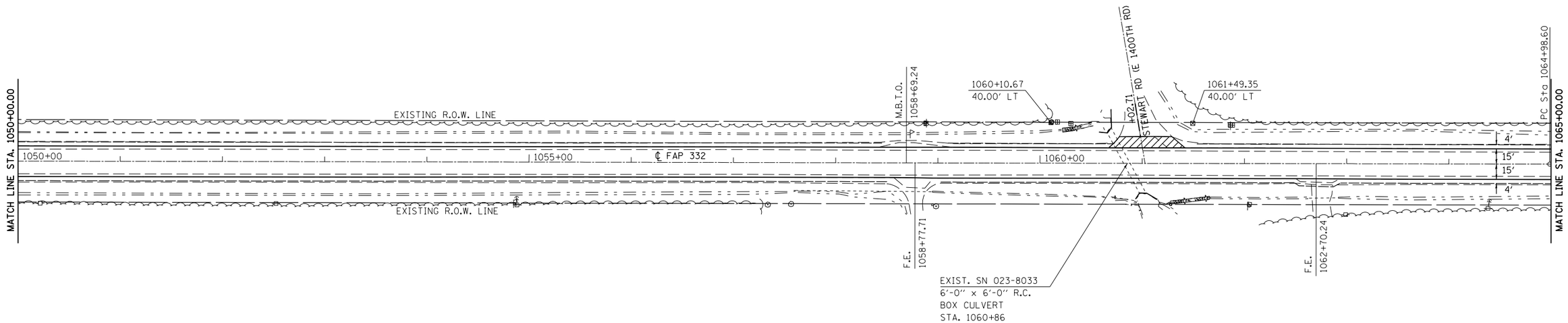
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	29
	*[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 13, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½″

SEC. 13, T. 14 N., R. 12 W., 2ND P.M. SEC. 12, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½″

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$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

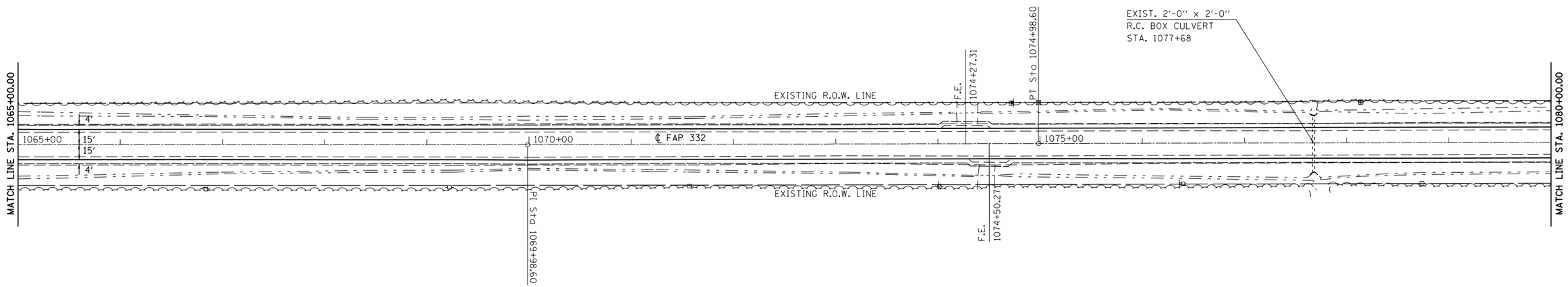
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1″ = 50′ | SHEET 4 OF 18 SHEETS | STA. 1035+00.00 TO STA. 1065+00.00

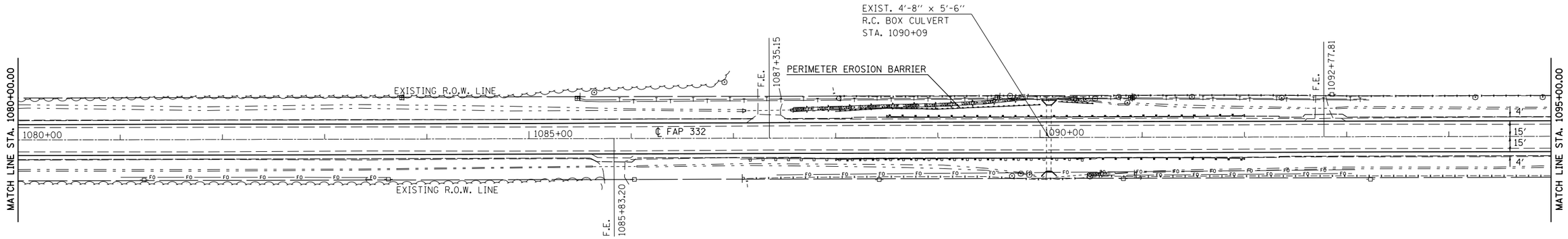
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	30
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 12, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 12, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

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$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

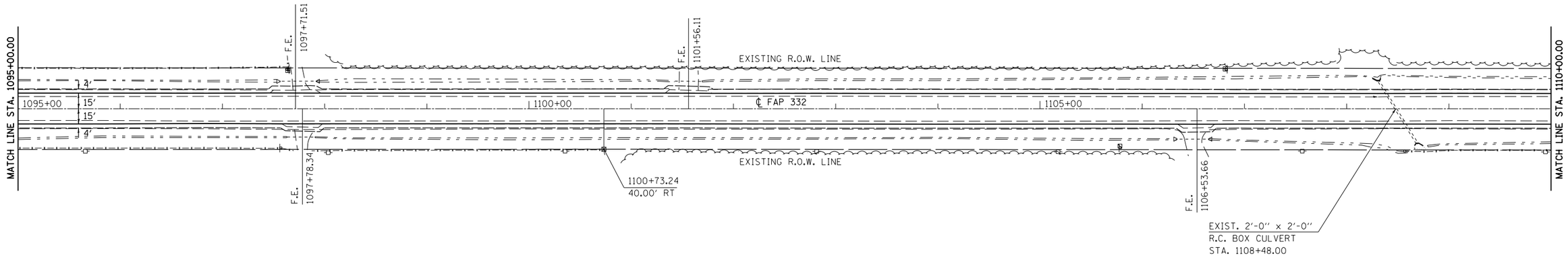
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 5 OF 18 SHEETS | STA. 1065+00.00 TO STA. 1095+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	31
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

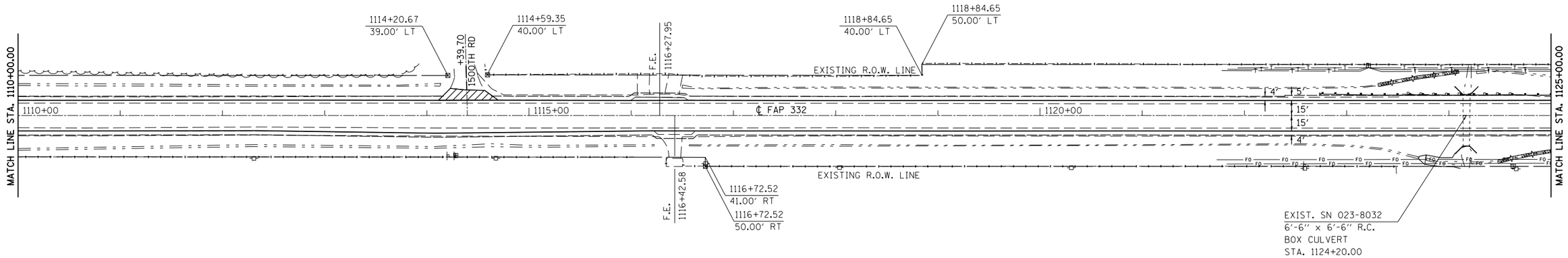
SEC. 12, T. 14 N., R. 12 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½″

SEC. 12, T. 14 N., R. 12 W., 2ND P.M.

SEC. 6, T. 14 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½″

FILE NAME =	USER NAME = goreas	DESIGNED - ASG	REVISED -
c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

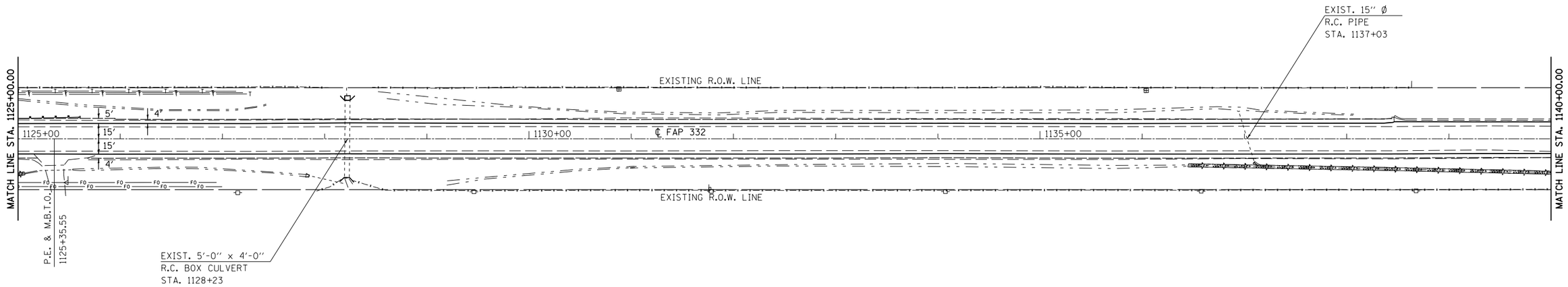
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1″ = 50′ | SHEET 6 OF 18 SHEETS | STA. 1095+00.00 TO STA. 1125+00.00

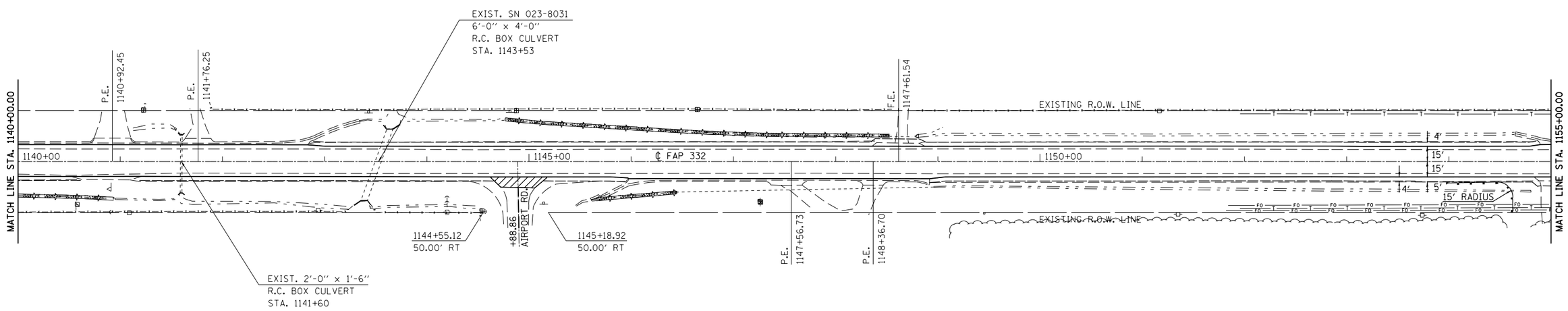
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	32
•E(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 6, T. 14 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½″

SEC. 6, T. 14 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½″

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D5708 39-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

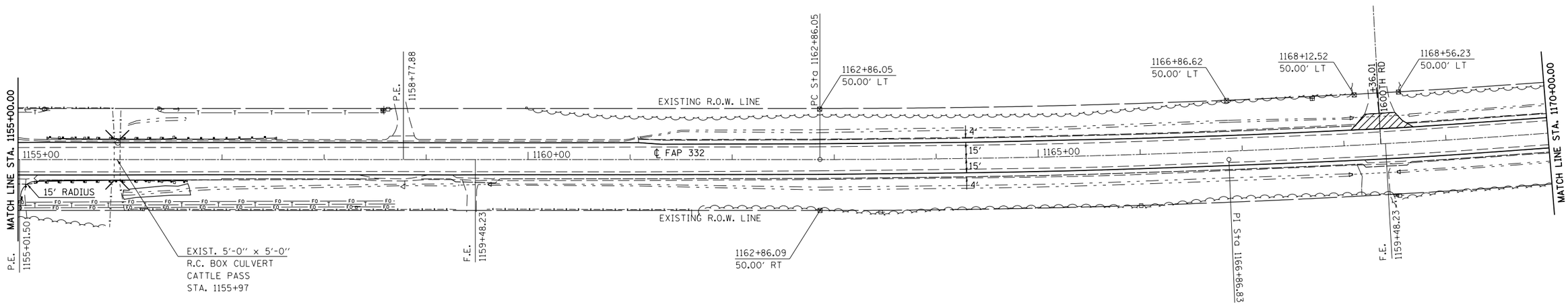
PLAN SHEET

SCALE: 1″ = 50′ | SHEET 7 OF 18 SHEETS | STA. 1125+00.00 TO STA. 1155+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	33
	•E(CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

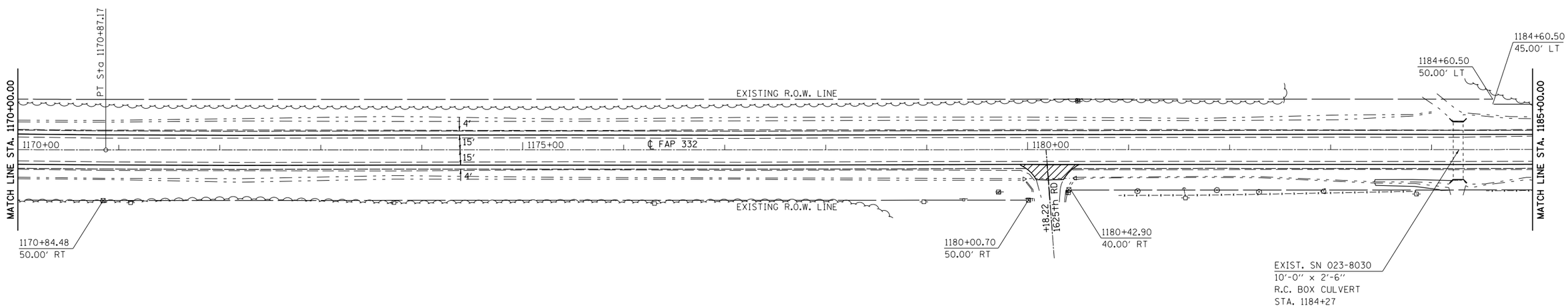
SEC. 6, T. 14 N., R. 11 W., 2ND P.M.

SEC. 31, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 31, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

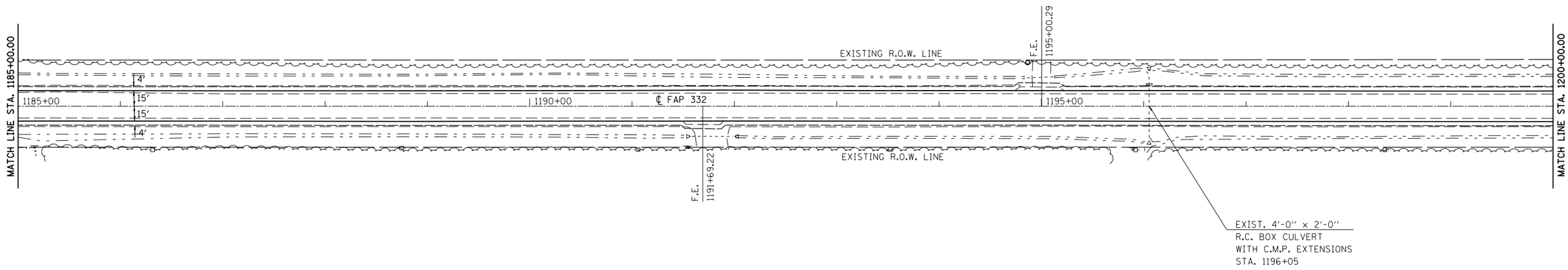
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 8 OF 18 SHEETS | STA. 1155+00.00 TO STA. 1185+00.00

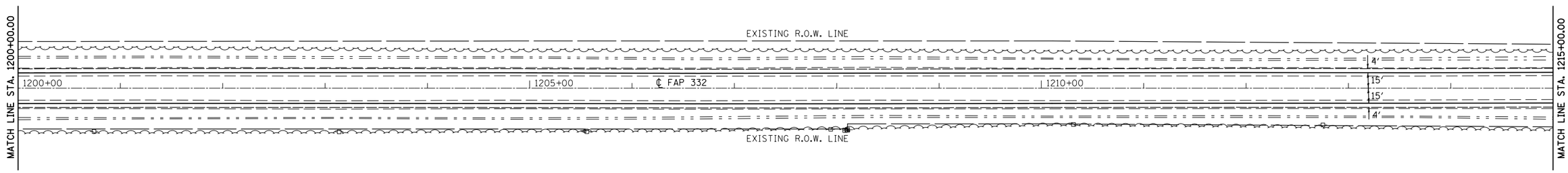
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	34
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 31, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 31, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

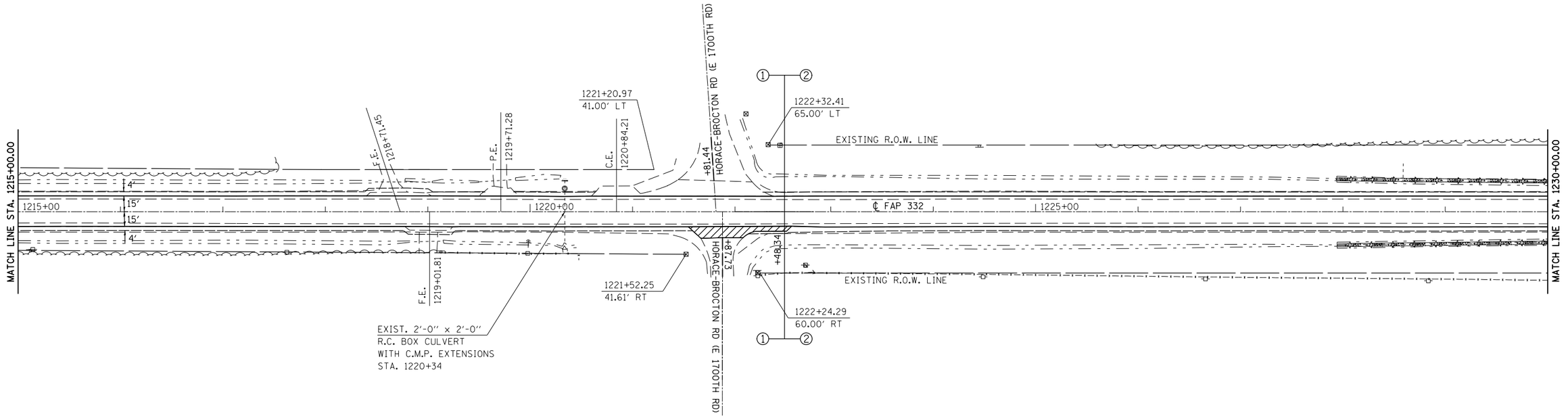
PLAN SHEET

SCALE: 1" = 50' | SHEET 9 OF 18 SHEETS | STA. 1185+00.00 TO STA. 1215+00.00

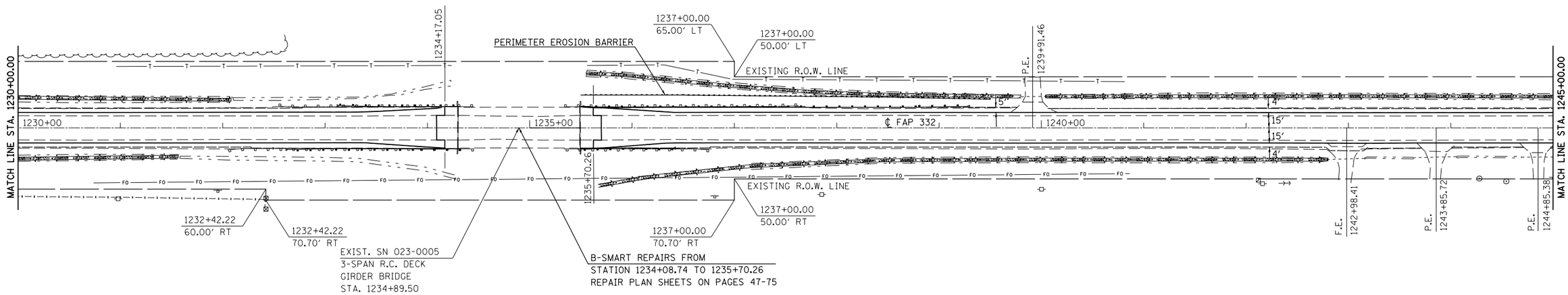
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	35
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 31, T. 15 N., R. 11 W., 2ND P.M.

SEC. 30, T. 15 N., R. 11 W., 2ND P.M.

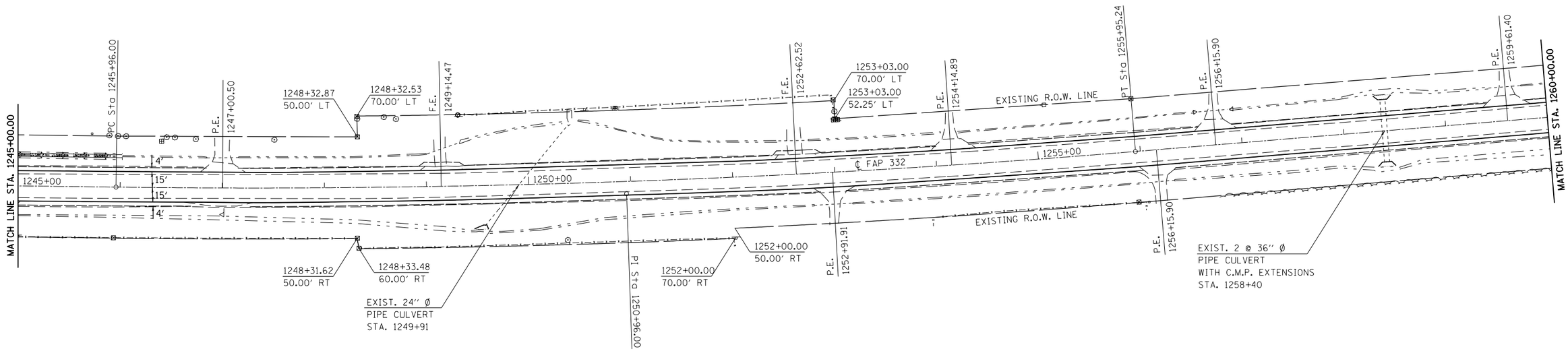


SEC. 30, T. 15 N., R. 11 W., 2ND P.M.



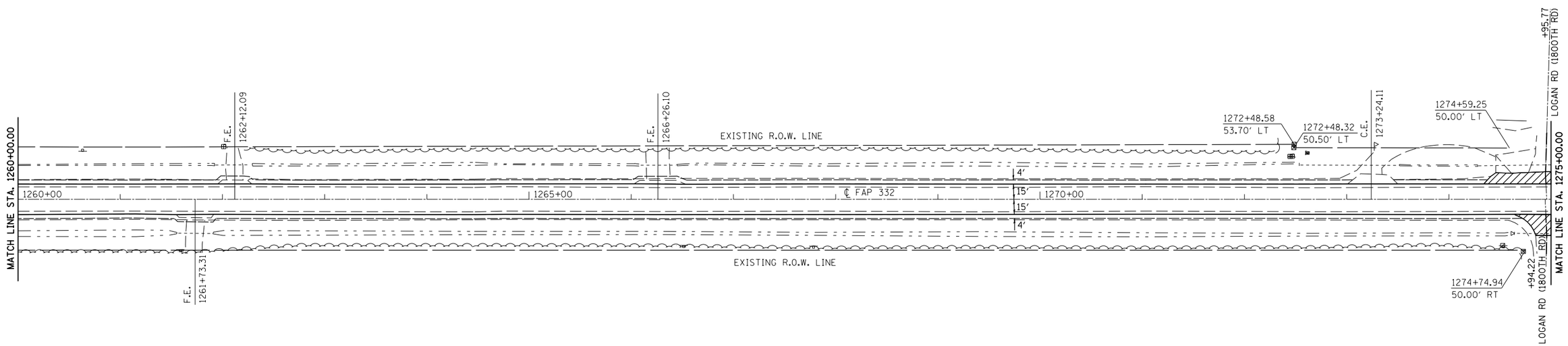
FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PLAN SHEET**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - ASG	REVISED -				332	•	EDGAR	171	36
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -				•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -		SCALE: 1" = 50' SHEET 10 OF 18 SHEETS STA. 1215+00.00 TO STA. 1245+00.00			ILLINOIS FED. AID PROJECT		

SEC. 30, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 30, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE -	REVISED -

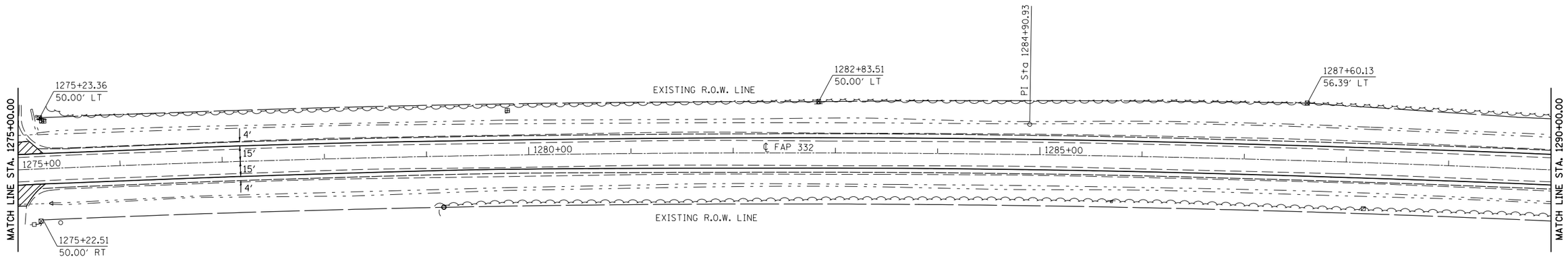
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 11 OF 18 SHEETS | STA. 1245+00.00 TO STA. 1275+00.00

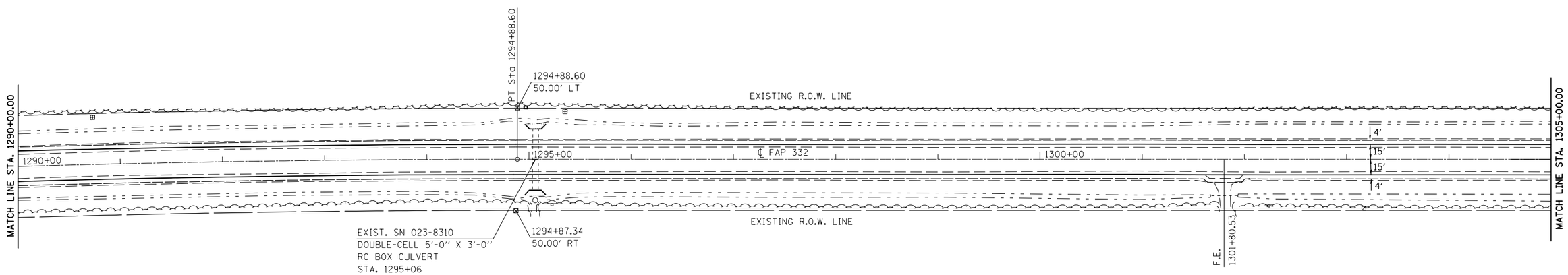
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	37
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 19, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 19, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

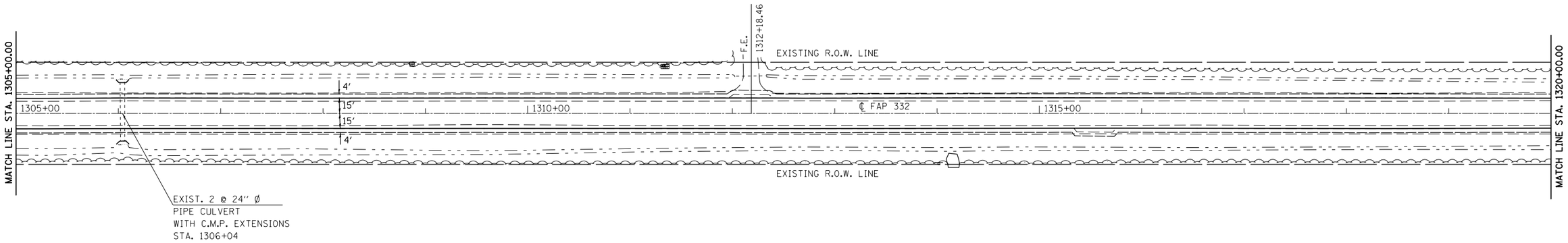
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 12 OF 18 SHEETS | STA. 1275+00.00 TO STA. 1305+00.00

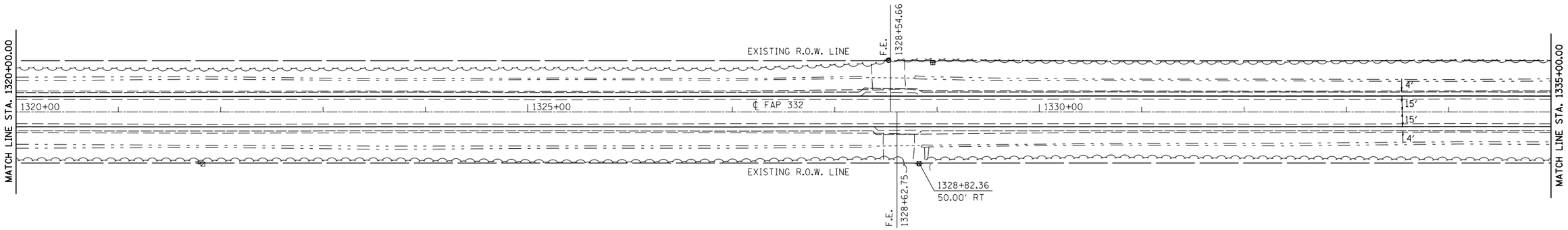
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	38
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 19, T. 15 N., R. 11 W., 2ND P.M.



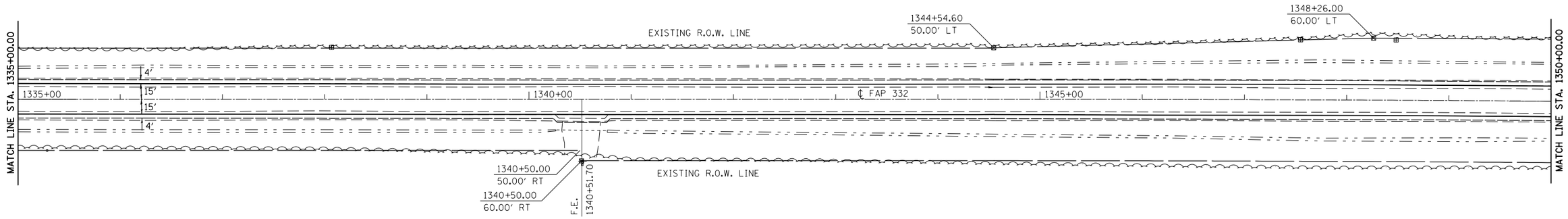
SEC. 19, T. 15 N., R. 11 W., 2ND P.M.

SEC. 18, T. 15 N., R. 11 W., 2ND P.M.



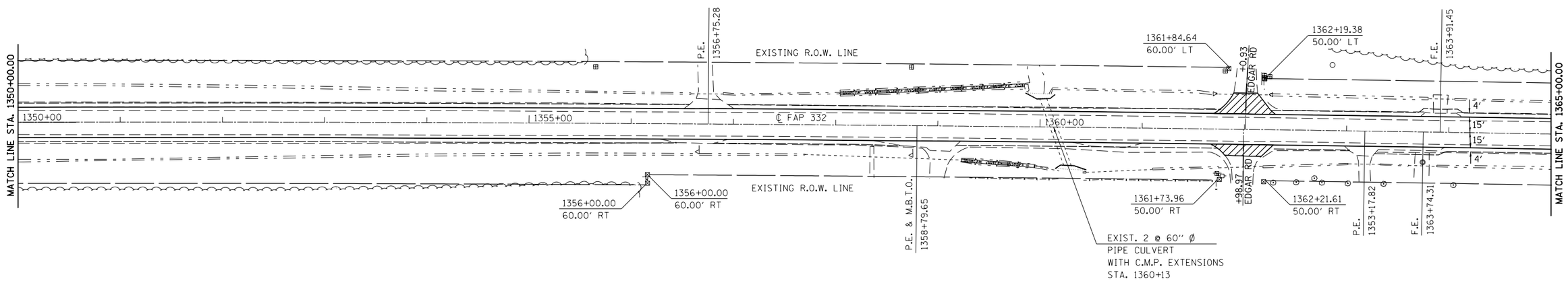
FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D5708 39-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PLAN SHEET**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ASG	REVISED -			332	•	EDGAR	171	39
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -			•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -		SCALE: 1'' = 50' SHEET 13 OF 18 SHEETS STA. 1305+00.00 TO STA. 1335+00.00			ILLINOIS FED. AID PROJECT		

SEC. 18, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 18, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

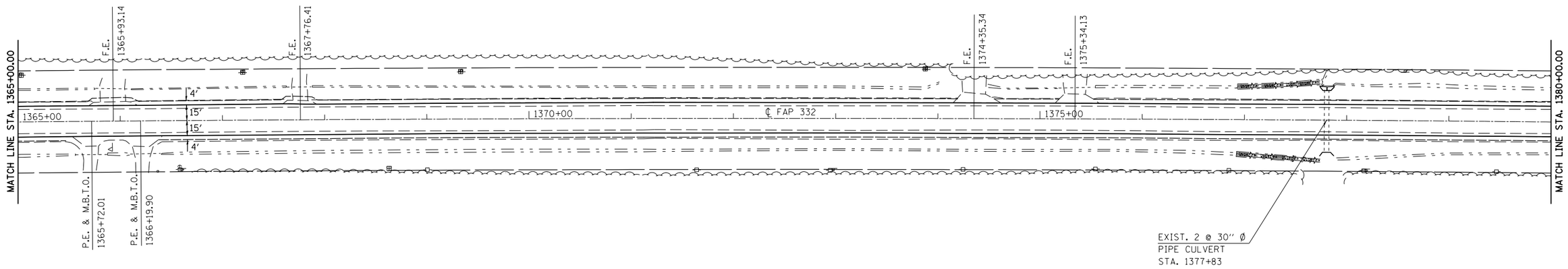
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 14 OF 18 SHEETS | STA. 1335+00.00 TO STA. 1365+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	40
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
ILLINOIS	FED. AID PROJECT			

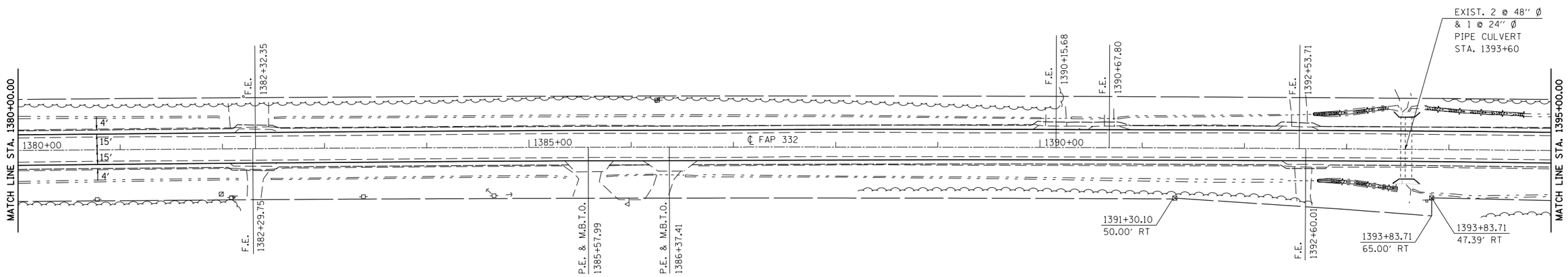
SEC. 18, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 18, T. 15 N., R. 11 W., 2ND P.M.

SEC. 7, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D5708839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

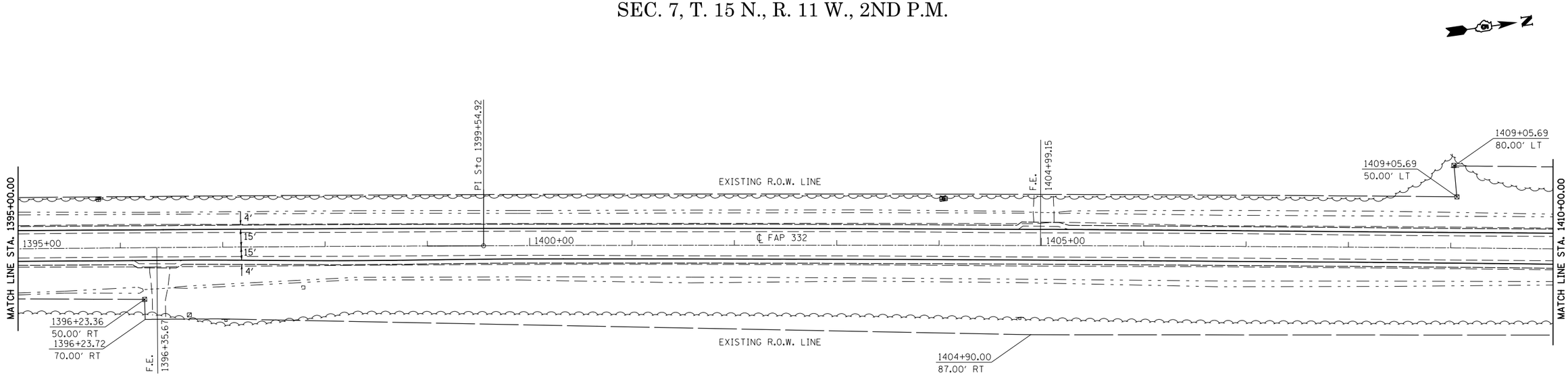
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 15 OF 18 SHEETS | STA. 1365+00.00 TO STA. 1395+00.00

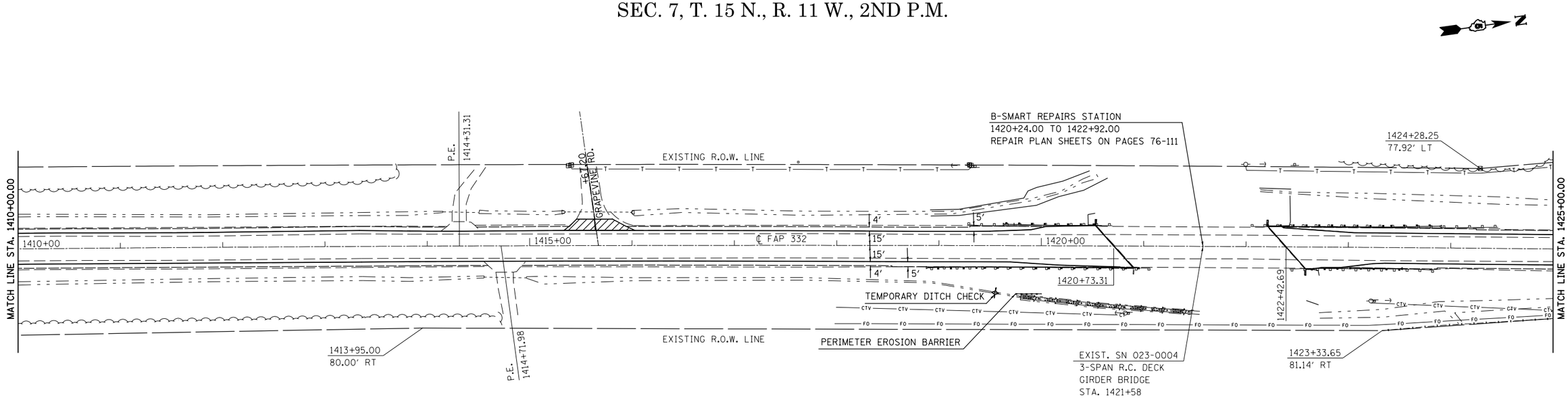
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	41
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SEC. 7, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 7, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/07/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

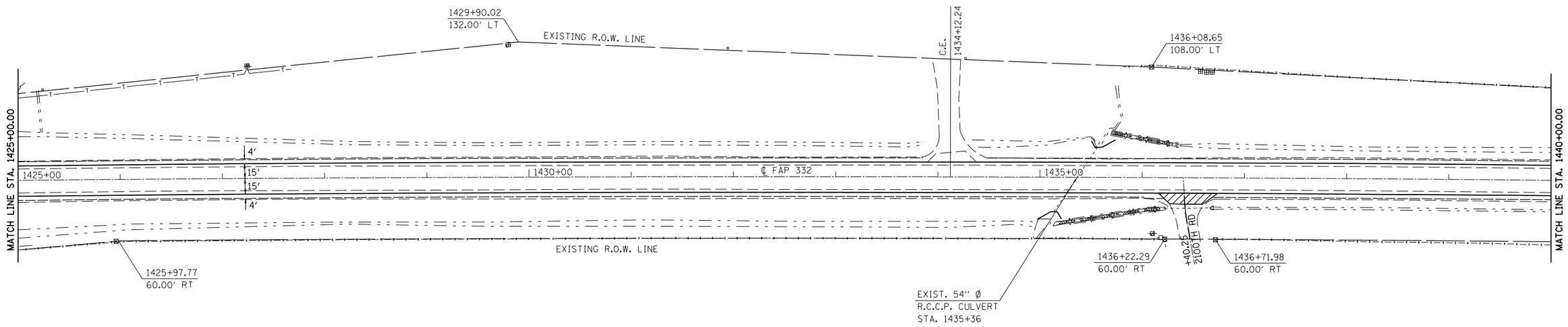
PLAN SHEET

SCALE: 1" = 50' | SHEET 16 OF 18 SHEETS | STA. 1395+00.00 TO STA. 1425+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	42
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
ILLINOIS	FED. AID PROJECT			

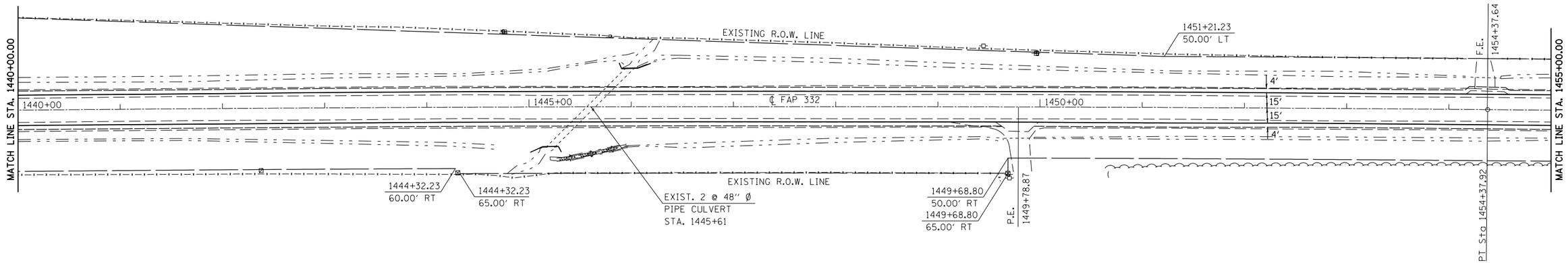
SEC. 7, T. 15 N., R. 11 W., 2ND P.M.

SEC. 6, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½''

SEC. 7, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½''

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 '/ in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/08/14	REVISED -

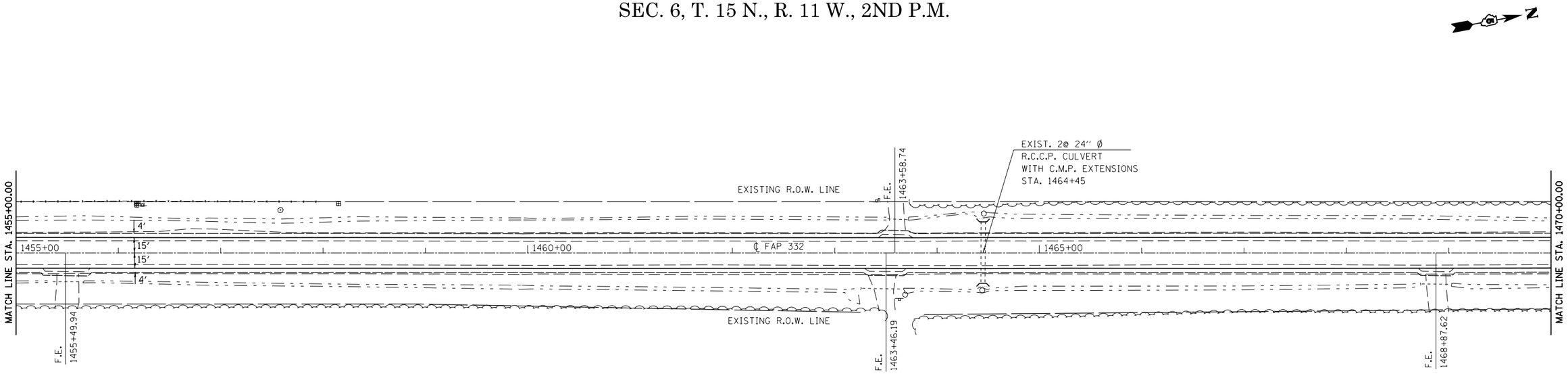
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1'' = 50' | SHEET 17 OF 18 SHEETS | STA. 1425+00.00 TO STA. 1455+00.00

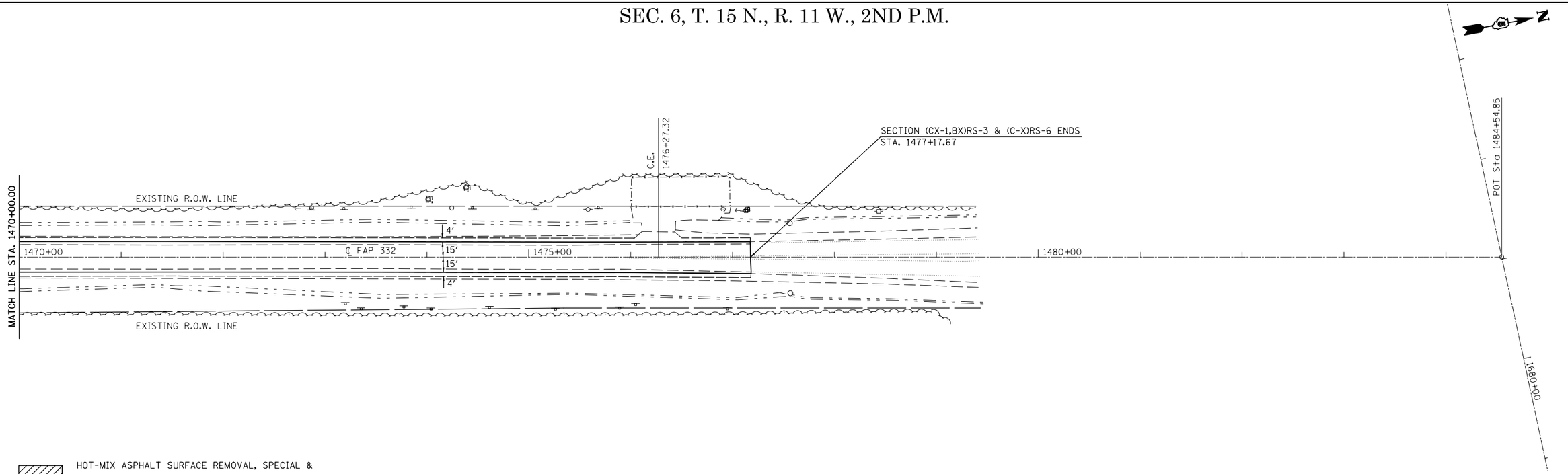
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	43
	•(CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS	FED. AID PROJECT		

SEC. 6, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

SEC. 6, T. 15 N., R. 11 W., 2ND P.M.



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL &
INCIDENTAL HOT-MIX ASPHALT SURFACING, 1 ½"

FILE NAME = c:\pw_work\pwidot\goreas\d0284280\D570839-sht-plan.dgn	USER NAME = goreas	DESIGNED - ASG	REVISED -
		DRAWN - ASG	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - RTC	REVISED -
$MODELNAME$	PLOT DATE = 3/18/2015	DATE - 08/08/14	REVISED -

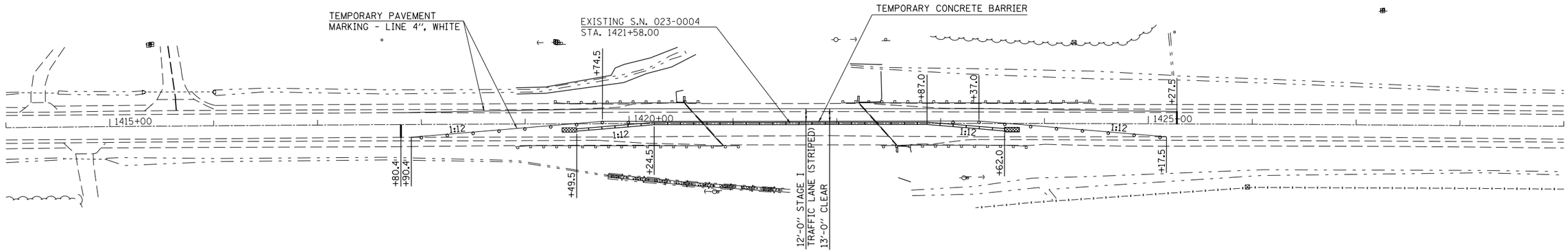
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1" = 50' | SHEET 18 OF 18 SHEETS | STA. 1455+00.00 TO STA. 1484+54.85

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	44
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

S.N. 023–0004
STAGE I

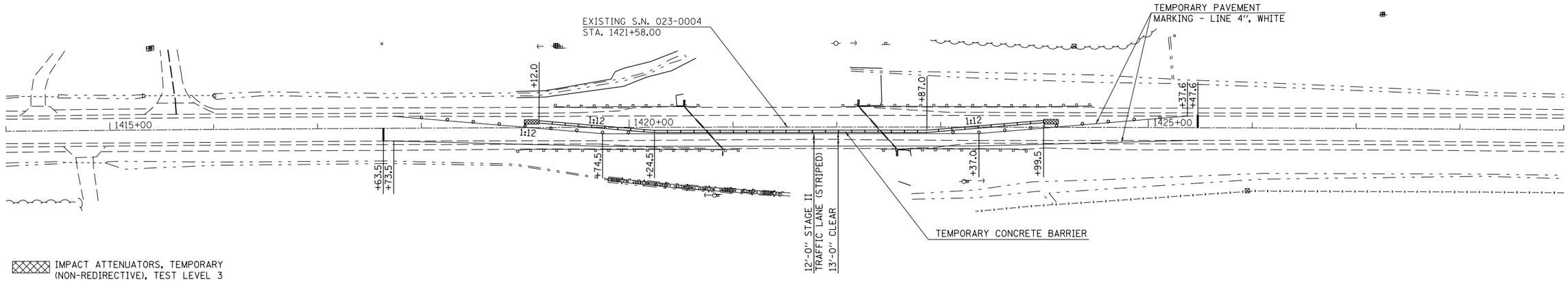


IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

NOTE:
ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

SEQUENCE OF CONSTRUCTION:
PLACE MAX WIDTH SIGNS AS SHOWN ON SHEETS 112 AND 113. RELOCATE BARRIER WALL AND IMPACT ATTENUATORS AND INSTALL OTHER TRAFFIC CONTROL MEASURES FOR STAGE II AS REQUIRED BY STANDARD 701321.

S.N. 023–0004
STAGE II



IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

SCHEDULE OF QUANTITIES - SN 023-0004 - STAGES I & II		
70400100	TEMPORARY CONCRETE BARRIER	487.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	412.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	2.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	2.0

NOTE:
ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

SEQUENCE OF CONSTRUCTION:
PLACE MAX WIDTH SIGNS AS SHOWN ON SHEETS 112 AND 113. RELOCATE BARRIER WALL AND IMPACT ATTENUATORS AND INSTALL OTHER TRAFFIC CONTROL MEASURES FOR STAGE II AS REQUIRED BY STANDARD 701321.

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$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

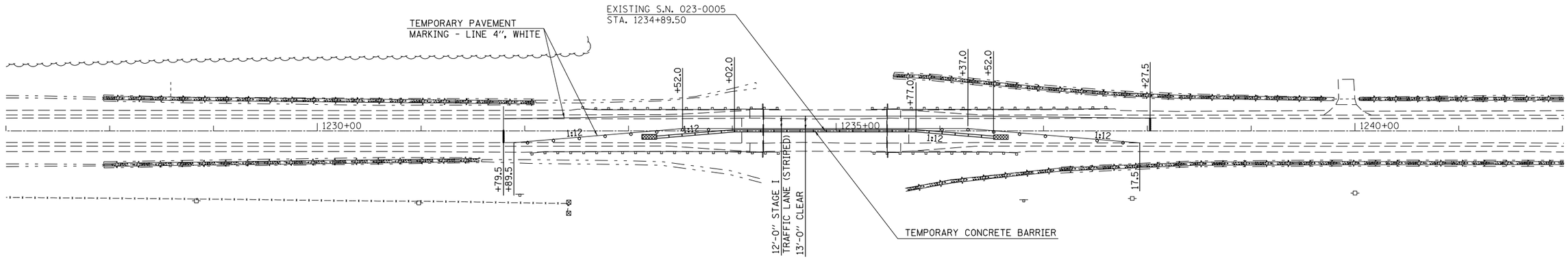
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER DETAIL
S.N. 023–0004

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	45
• [(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

S.N. 023–0005
STAGE I

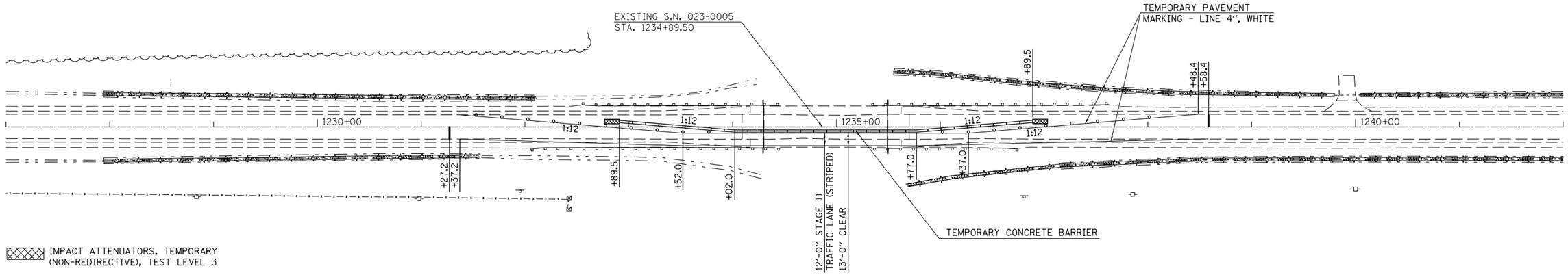


IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

NOTE:
ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

SEQUENCE OF CONSTRUCTION:
PLACE MAX WIDTH SIGNS AS SHOWN ON SHEETS 112 AND 113. RELOCATE BARRIER WALL AND IMPACT ATTENUATORS AND INSTALL OTHER TRAFFIC CONTROL MEASURES FOR STAGE II AS REQUIRED BY STANDARD 701321.

S.N. 023–0005
STAGE II



IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

SCHEDULE OF QUANTITIES - SN 023-0005 - STAGES I & II		
70400100	TEMPORARY CONCRETE BARRIER	400.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	325.0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	2.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	2.0

NOTE:
ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

SEQUENCE OF CONSTRUCTION:
PLACE MAX WIDTH SIGNS AS SHOWN ON SHEETS 112 AND 113. RELOCATE BARRIER WALL AND IMPACT ATTENUATORS AND INSTALL OTHER TRAFFIC CONTROL MEASURES FOR STAGE II AS REQUIRED BY STANDARD 701321.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER DETAIL
S.N. 023–0005

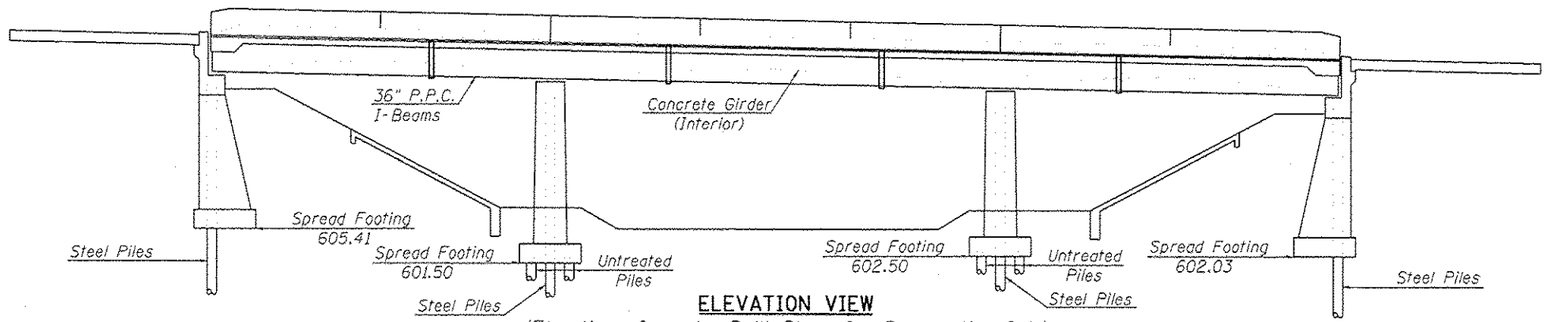
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	46
• ((CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

Structure 023-0005 was built in 1952 as SBI 1. Section CX-1-B at station 1234+89.5 by the state of Illinois in Edgar County. In 1986 the structure was reconstructured under section CX-1-BY. The exterior girders and parapets were removed and replaced with two Precast Prestressed Concrete I-Beams. The deck roadway width was increased to 40'.

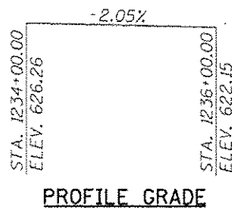
The existing structure is a three-span structure with back-to-back of abutment length of 121'-6¼". The structure measures 40'-0" from face-to-face of parapets and has an out-to-out width of 43'-2". The structure was built with a zero degree skew. The superstructure consist of three interior Reinforced Concrete Girders with two Precast Prestressed Concrete I-Beams on both sides supporting a 7½" reinforced concrete deck and a 1¾" HMA wearing surface. The superstructure is supported by full height spill through abutments and 2 solid column piers. The slopes are protected with concrete slope walls.

Method of Construction: STAGE CONSTRUCTION



ELEVATION VIEW

(Elevations from As-Built Plans for Perspective Only)



PROFILE GRADE

PLAN VIEW

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

D. Carl Puzey 4/27/15
Expires 11/30/16

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$MODELNAME$	PLOT DATE = 3/17/2015	DATE - 5/01/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PAN AND ELEVATION
S.N. 023-0005

SCALE: | SHEET 1 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	47
	*(1CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

PROPOSED WORK

1. Remove Existing Waterproofing Membrane System and H.M.A. Wearing Surface from Bridge Deck.
2. Partial Removal of Deck Ends and Hatch Block.
3. Clean and Fill ½" Drain Holes - See sheet 9 of 29.
4. Perform Partial-Depth and Full-Depth Patching.
5. Perform Beam End Repairs.
6. Replace Existing Bearings with Elastomeric Bearings at Abutments.
7. Place Reinforcement Bars, Pour Deck Ends, Hatch Block and Polymer Concrete.
8. Place Water Proofing Membrane System on Bridge Deck.
9. Place Hot-Mix Asphalt Surface Course, Mix "C", N50 on Bridge Deck.
10. Insert Backer Rod and Place Silicone Joint Sealer.

BILL OF MATERIALS

DESCRIPTION	UNIT OF MEASURE	QUANTITY
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	52.0
CONCRETE REMOVAL	CU YD	5.6
CONCRETE SUPERSTRUCTURE	CU YD	5.4
PROTECTIVE COAT	SQ YD	8.0
REINFORCEMENT BARS, EPOXY COATED	POUND	430.0
BAR SPLICERS	EACH	10.0
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	14.0
ANCHOR BOLTS, 1"	EACH	28.0
WATERPROOFING MEMBRANE SYSTEM	SQ YD	534.0
POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	4.0
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	3.0
JACK AND REMOVE EXISTING BEARINGS	EACH	14.0
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	530.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	6.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	8.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	27.0
SILICONE JOINT SEALER, 1.75"	FOOT	44.5
SILICONE JOINT SEALER, 2.75"	FOOT	44.5
POLYMER CONCRETE	CU FT	9.1

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Joint openings shall be adjusted according to article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

Care shall be take to prevent damage to the bottom T-Girder Section. If the existing T-Girder stems are damaged during construction, the contractor will be responsible for repairing damage at his expense to the satisfaction of the engineer.

Care shall be take to prevent damage to the existing floor drains. It the existing floor drains are damaged during construction, the contractor will be responsible for providing and installing an approved replacement at no additional cost to the department.

S.N. 023-0005 have been determined, through testing, not to involve Asbestos in a Bituminous deck wearing surface or waterproofing membrane. As certified with BBS from 2536, January 1, 2003.

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$MODELNAME$	PLOT DATE = 3/17/2015	DATE - 3/17/2014	REVISED -

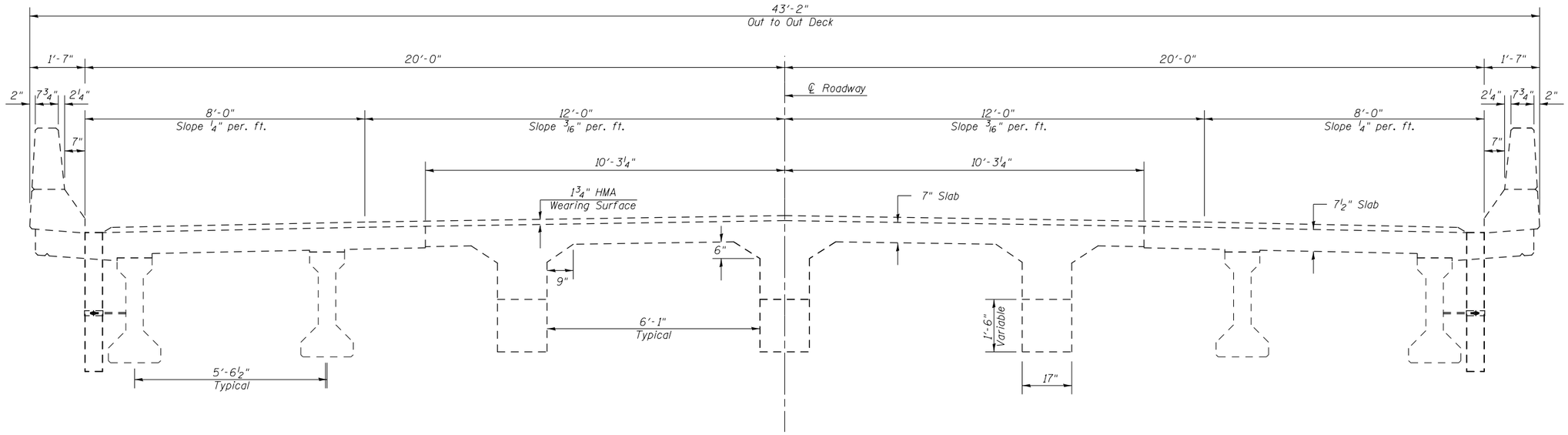
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
S.N. 023-0005

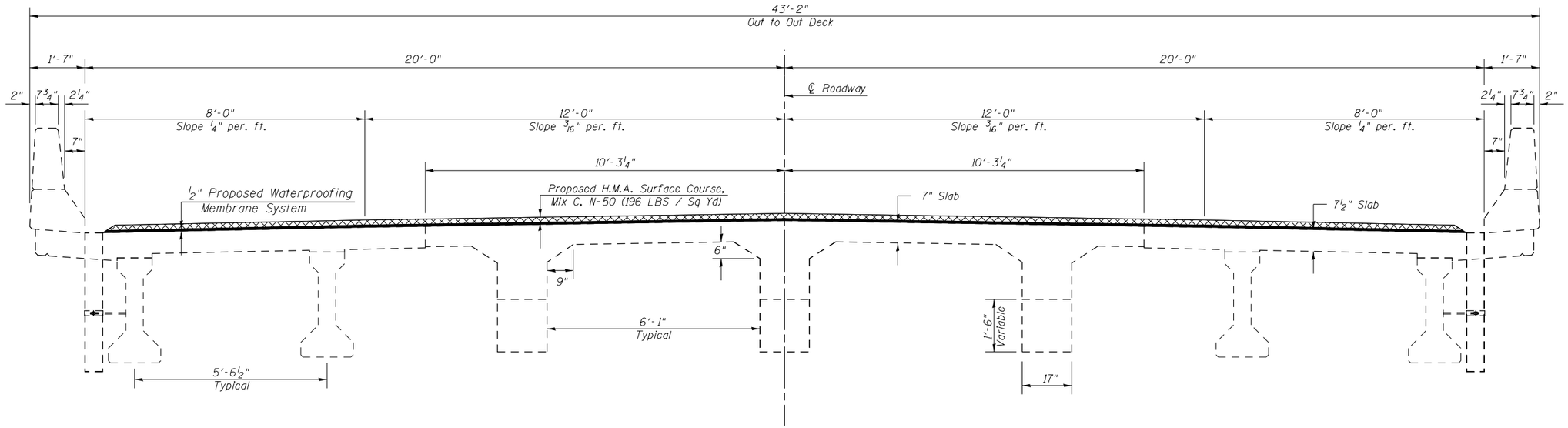
SCALE: | SHEET 2 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	48
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
ILLINOIS	FED. AID PROJECT			

EXISTING DECK CROSS SECTION



PROPOSED DECK CROSS SECTION



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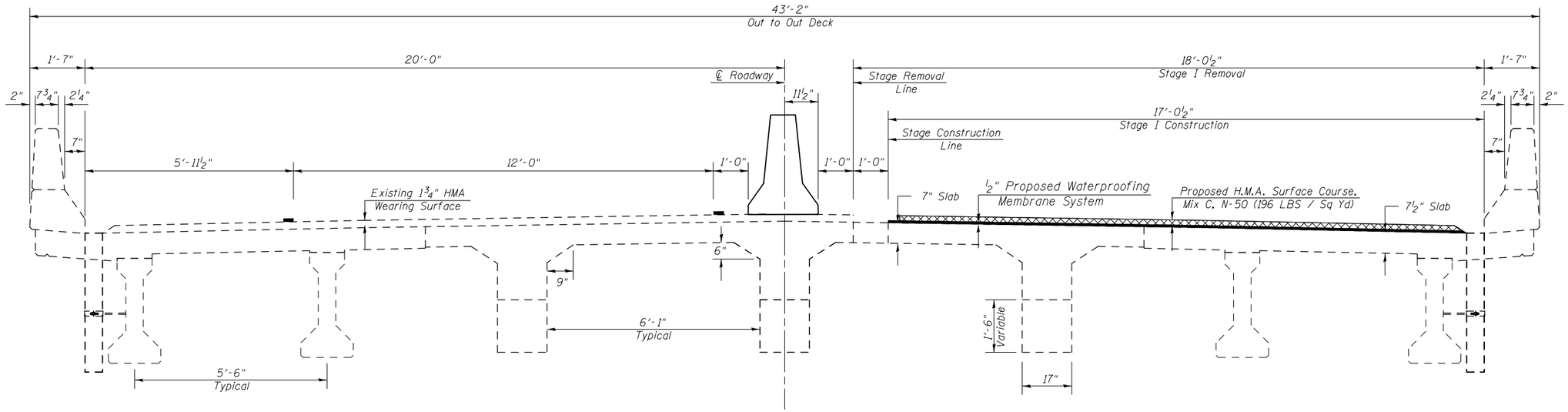
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL DECK CROSS SECTION
S.N. 023-0005

SCALE: | SHEET 3 OF 29 SHEETS | STA. | TO STA.

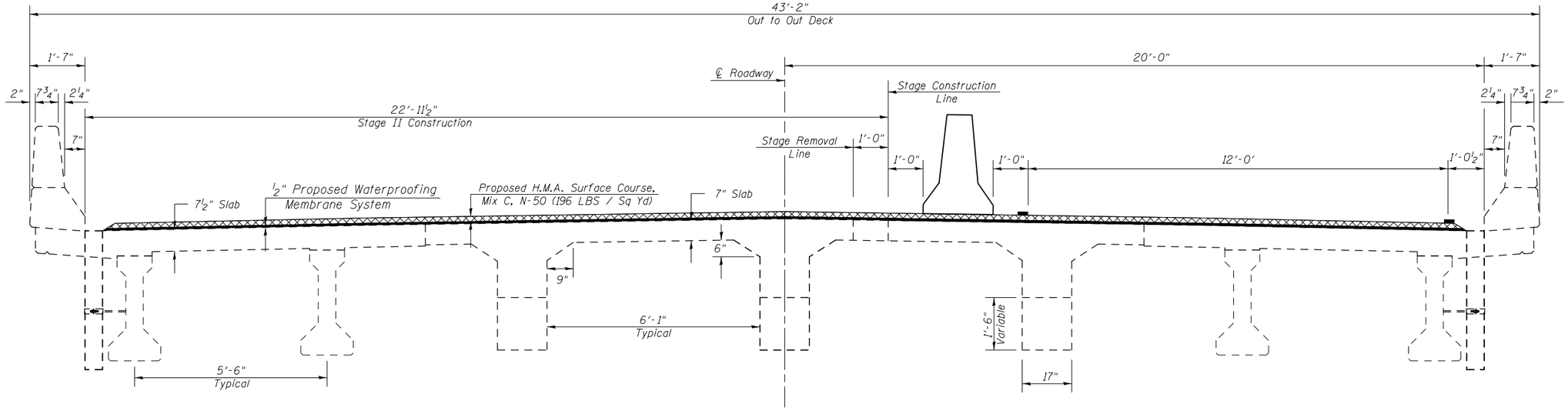
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	49
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

STAGE I CONSTRUCTION DETAIL
S.N. 023–0005



LOOKING NORTH

STAGE II CONSTRUCTION DETAIL
S.N. 023–0005



LOOKING NORTH

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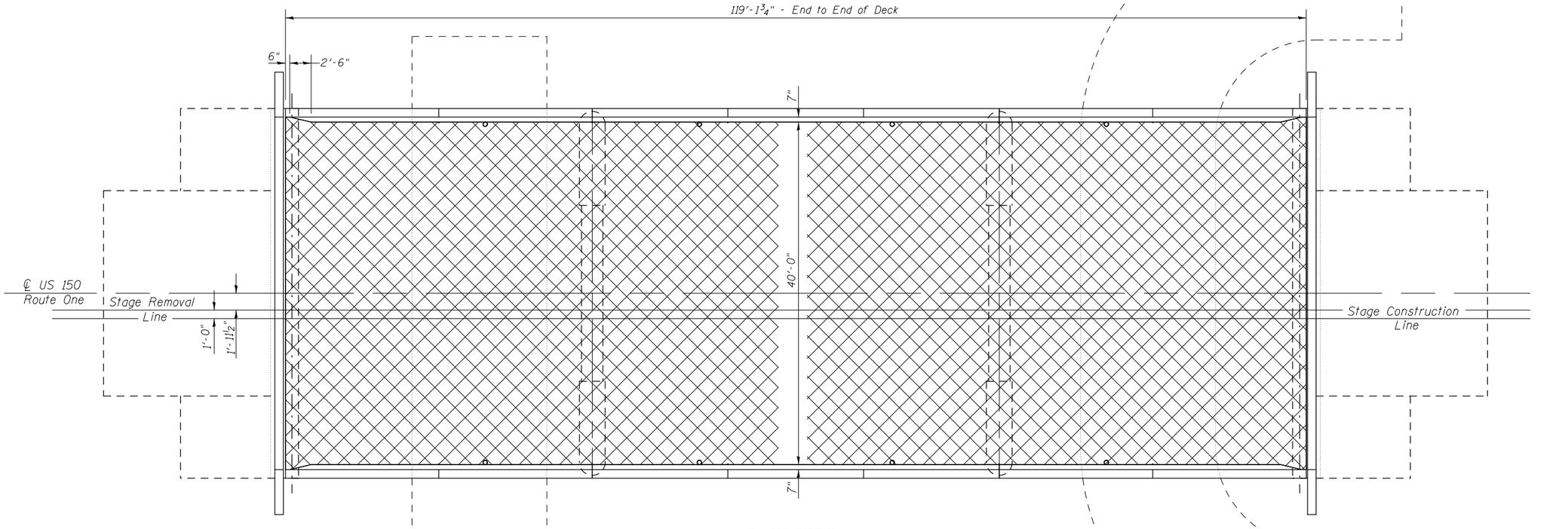
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAIL
S.N. 023–0005

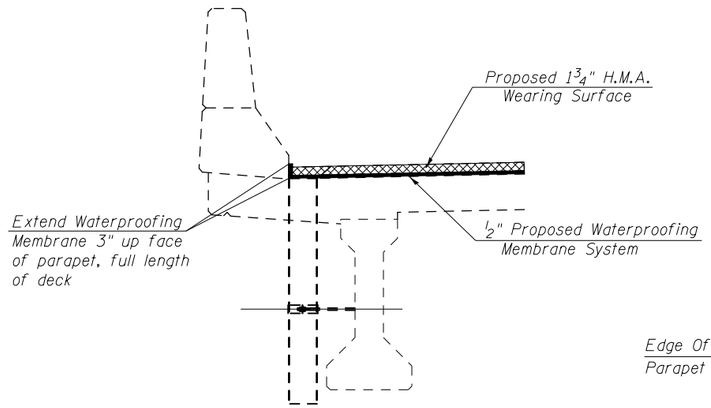
SCALE: | SHEET 4 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	50
•((CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
ILLINOIS FED. AID PROJECT				

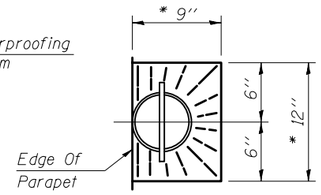
WEARING SURFACE PLAN
S.N.023–0005



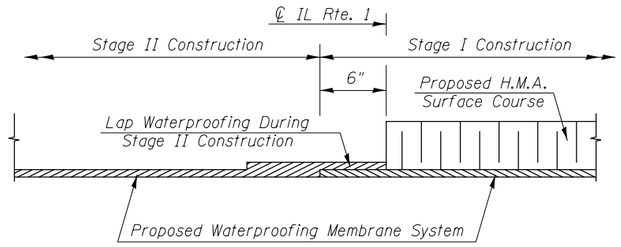
PLAN VIEW



SECTION AT DRAIN



TOP PLAN
* SLOPE TO DRAIN



WATERPROOFING TREATMENT
AT STAGE CONSTRUCTION

LEGEND

H.M.A. Surface Removal (Deck)
& Proposed 1¾" H.M.A. Wearing Surface
& Water Proofing Membrane System

BILL OF MATERIALS

ITEM	UNIT	TOTAL
H.M.A. SURFACE REMOVAL (DECK)	SQ YD	530.0
WATER PROOFING MEMBRANE SYSTEM	SQ YD	534.0
H.M.A. SURFACE COURSE, MIX C, N-50	TON	52.0

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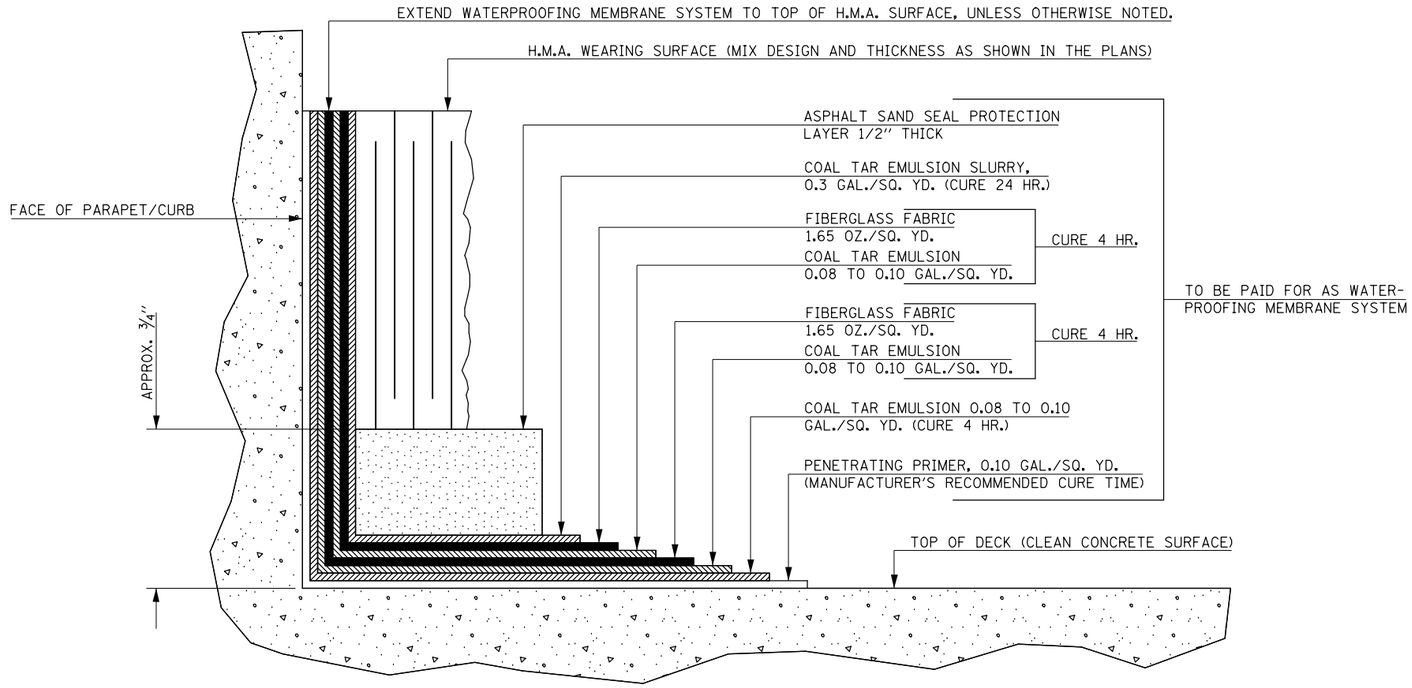
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEARING SURFACE PLAN
S.N. 023–0005

SCALE: | SHEET 5 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	51
	•E(CX-1)RS-3 & (C-X)RS-6)BDR			70839
	ILLINOIS FED. AID PROJECT			

WATERPROOFING MEMBRANE SYSTEM
S.N. 023–0005



NOTES

THIS DETAIL HAS BEEN INCLUDED TO ILLUSTRATE THE ASSOCIATED LAYERS AND CURE TIMES NECESSARY FOR THE PLACEMENT OF THE WATERPROOFING MEMBRANE SYSTEM. THIS DETAIL SHALL SUPPLEMENT, NOT SUPERSEDE, SECTION 581 OF THE STANDARD SPECIFICATIONS.

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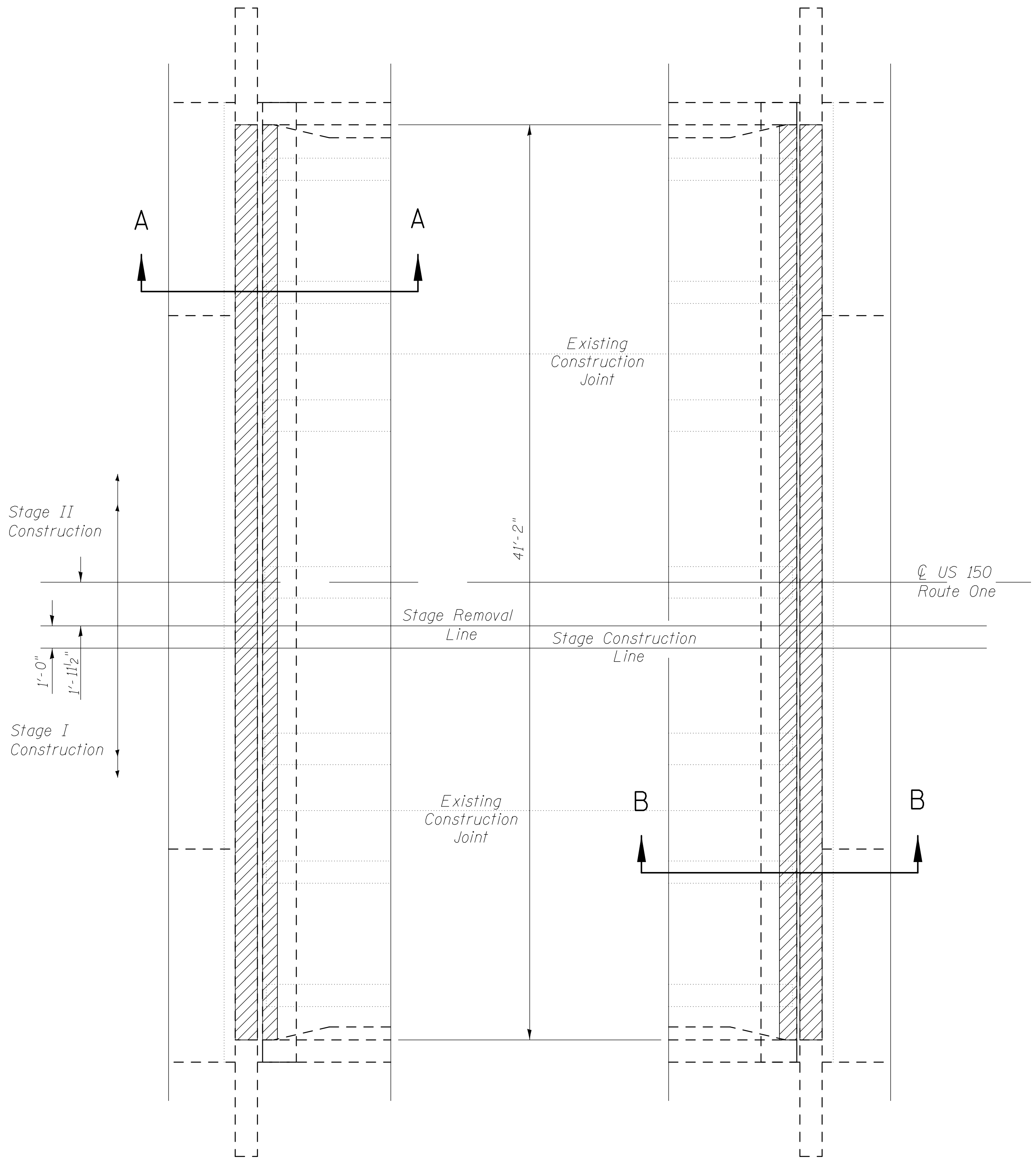
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATERPROOFING MEMBRANE SYSTEM
S.N. 023–0005

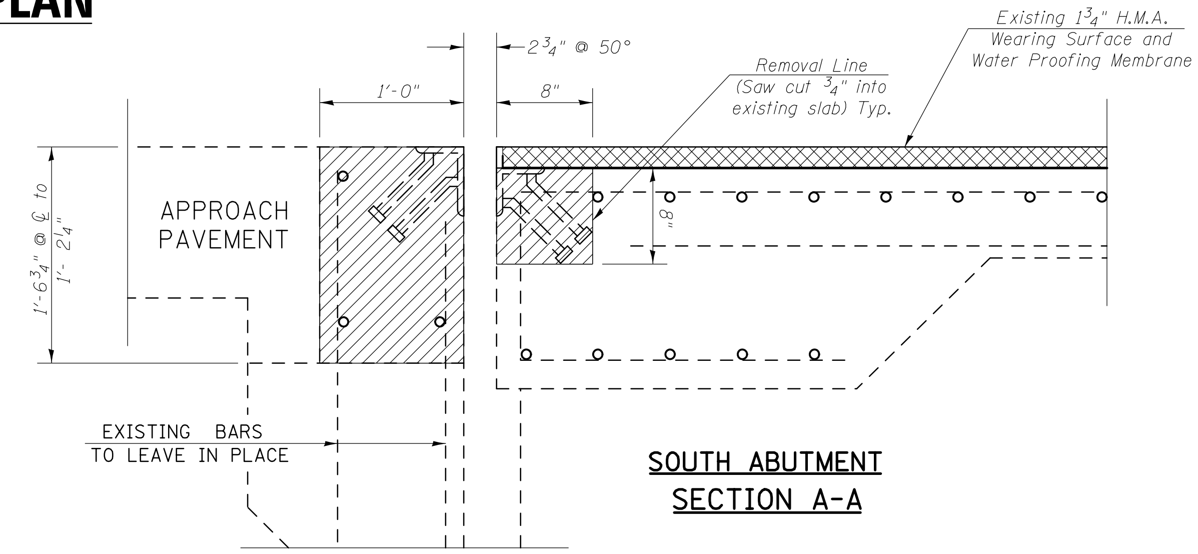
SCALE: | SHEET 6 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	52
*((CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
	ILLINOIS	FED. AID PROJECT		

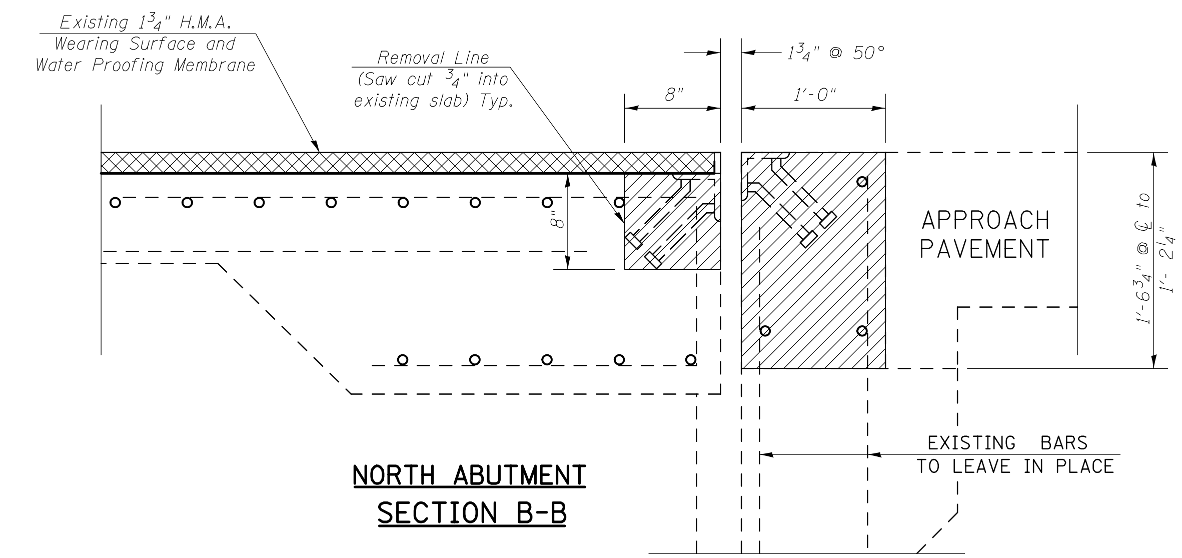
CONCRETE REMOVAL PLAN
S.N. 023–0005



PLAN VIEW PLAN VIEW



SOUTH ABUTMENT
SECTION A-A



NORTH ABUTMENT
SECTION B-B

NOTES:

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

THE EXISTING EXPANSION JOINT SYSTEMS SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. THE COST FOR THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

Concrete Removal (hatched)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	5.6

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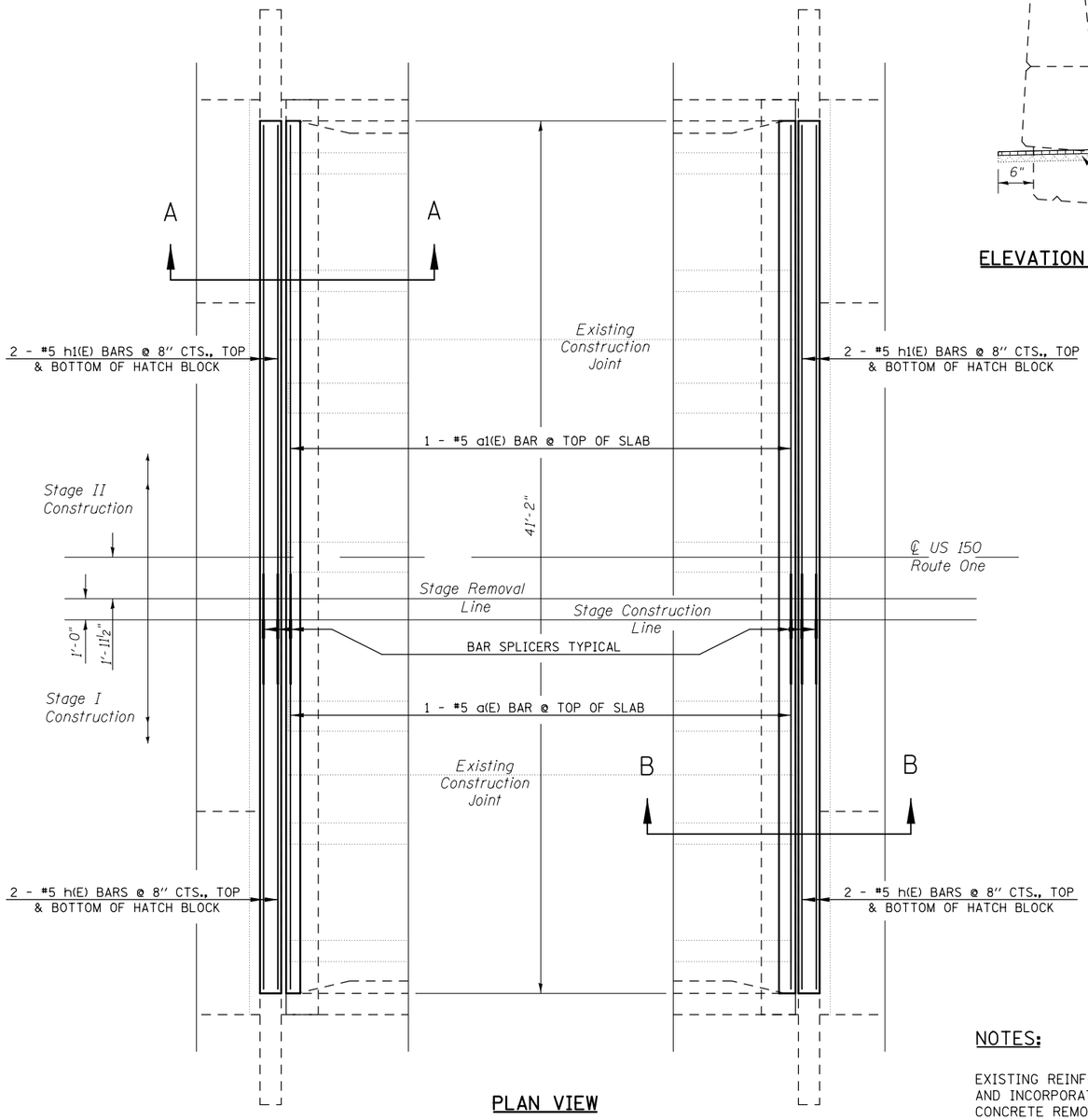
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN – CONCRETE REMOVAL
S.N. 023–0005

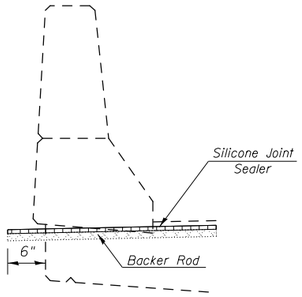
SCALE: SHEET 7 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	53
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

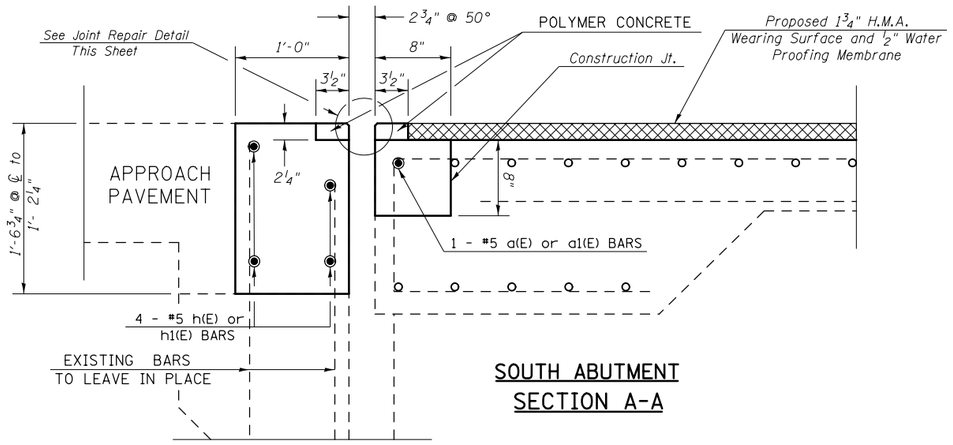
SUPERSTRUCTURE REPAIR DETAIL
S.N. 023–0005



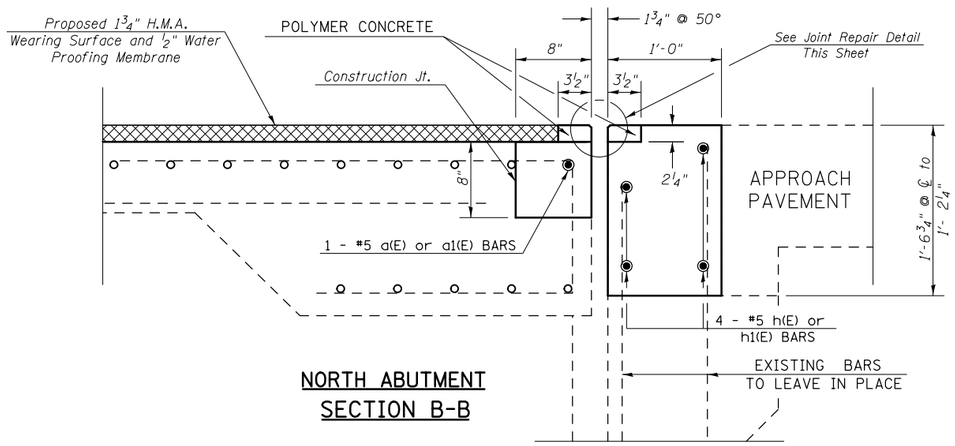
PLAN VIEW



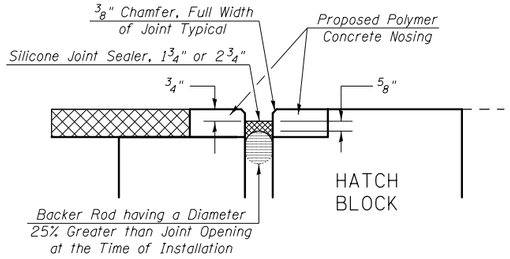
ELEVATION AT PARAPET



SOUTH ABUTMENT
SECTION A-A



NORTH ABUTMENT
SECTION B-B



JOINT REPAIR DETAIL

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	2	#5	17'-4"	——
a_1(E)	2	#5	23'-2"	——
h(E)	8	#5	17'-4"	——
h_1(E)	8	#5	23'-2"	——

REINFORCEMENT BARS (EPOXY COATED)	POUND	430.0
CONCRETE SUPERSTRUCTURE	CU YD	5.4
POLYMER CONCRETE	CU FT	9.1
BAR SPLICERS	EACH	10.0
PROTECTIVE COAT	SQ YD	7.0
SILICONE JOINT SEALER, 1.75"	FOOT	44.5
SILICONE JOINT SEALER, 2.75"	FOOT	44.5

NOTES:

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

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		DRAWN - ESS	REVISED -
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$MODELNAME$	PLOT DATE = 3/16/2015	DATE - 5/07/2014	REVISED -

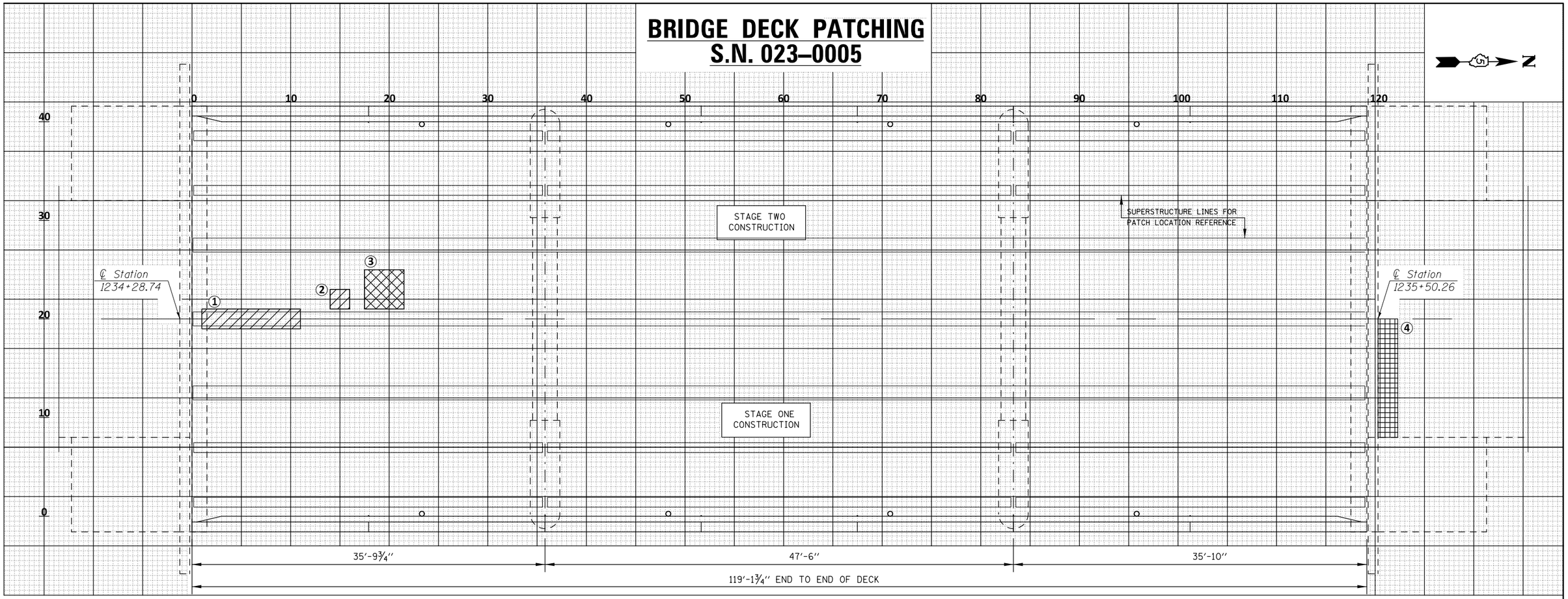
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE REPAIR PLAN
S.N. 023–0005

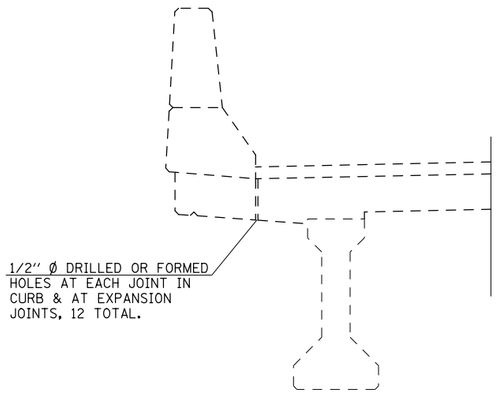
SCALE: | SHEET 8 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	54
	*(CX-1)RS-3 & (C-X)RS-6JBDR	CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

BRIDGE DECK PATCHING
S.N. 023–0005



PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH) SQ FT	DECK SLAB REPAIR (FD TY 1) SQ FT	DECK SLAB REPAIR (FD TY 2) SQ FT	
BRIDGE DECK PATCHING					
1	10.00 * 2.00	20.0			
2	2.00 * 2.00	4.0			
3	4.00 * 4.00			16.0	
APPROACH PAVEMENT PATCHING					
4	2.00 * 12.00	24.0			



DETAIL OF DRAIN HOLES AT CURB JOINTS

(TO BE PLUGGED) - SEE NOTES , THIS SHEET

NOTES:

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AFTER THE EXISTING H.M.A. WEARING SURFACE AND WATERPROOFING MEMBRANE ARE REMOVED. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON THIS SHEET.

CARE SHALL BE TAKEN TO PREVENT DAMAGE TO THE EXISTING FLOOR DRAINS. IF THE EXISTING FLOOR DRAINS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING AN APPROVED REPLACEMENT AT NO ADDITIONAL COST TO THE DEPARTMENT.

ALL (QTY. 12) ½″ Ø DRAIN HOLES AT CURB JOINTS SHALL BE CLEANED AND FILLED WITH A TWO COMPONENT NON-STAINING GRAY SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMERS - GUN GRADE WITH PRIMER. COST TO BE INCLUDED WITH DECK SLAB REPAIR.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ YD	27.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	6.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	8.0
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	3.0

LEGEND

DECK SLAB REPAIR (FULL-DEPTH)

DECK SLAB REPAIR (PARTIAL)

APPROACH SLAB REPAIR (PARTIAL DEPTH)

METHOD OF SURVEY: VISUAL

BRIDGE DECK PATCHING
EDGAR COUNTY
FAP 332 (IL 1)
SOUTH FORK
BROUILLETS CREEK

S.N. 023-0005

0005

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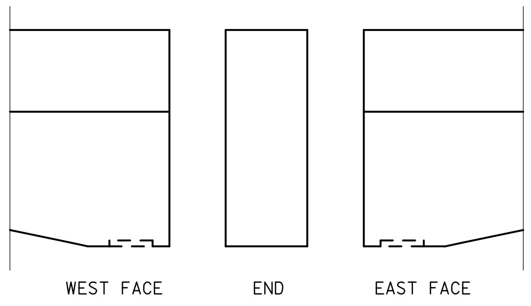
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING
S.N. 023–0005

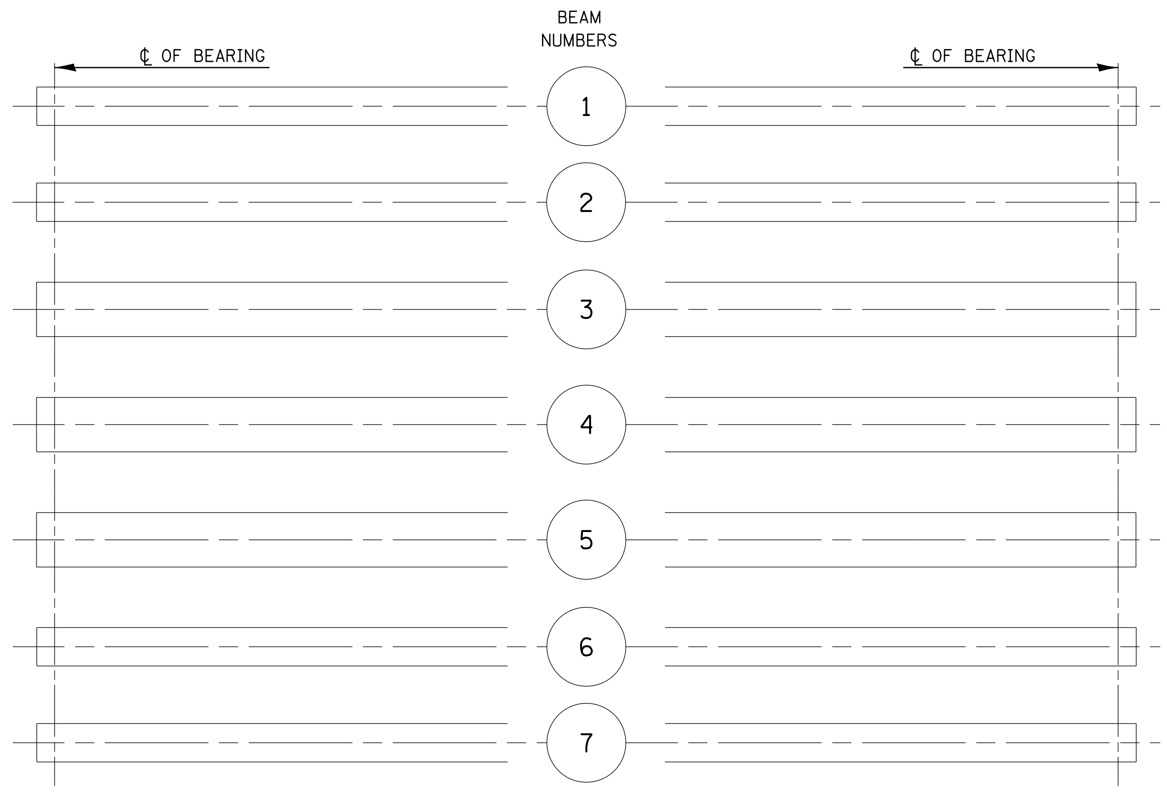
SCALE: | SHEET NO. 9 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	172	55
	•((CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

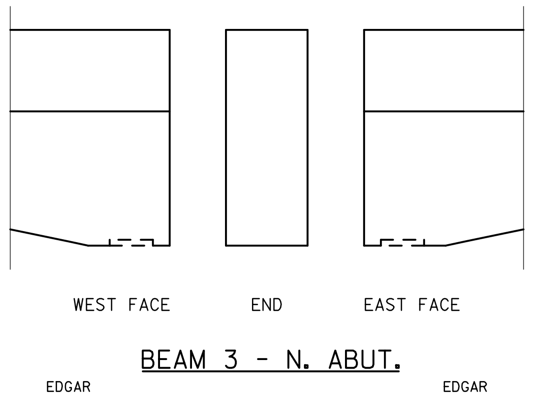
BEAM END REPAIR DETAILS
S.N. 023–0005



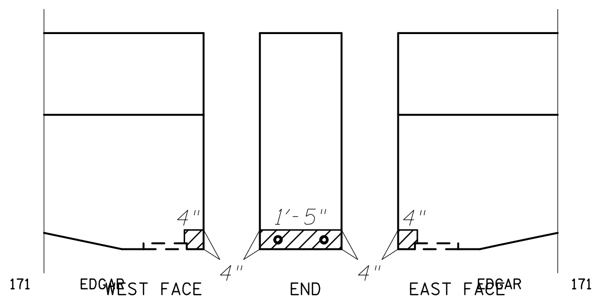
BEAM 3 - S. ABUT.



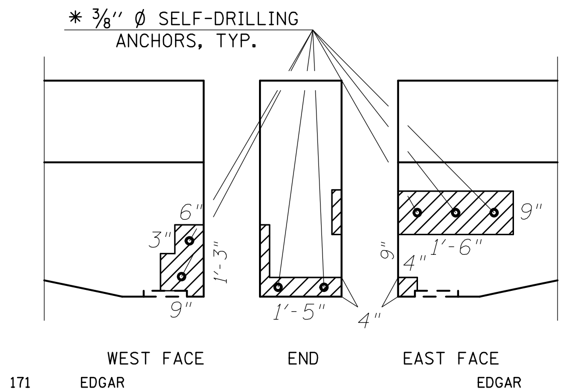
PARTIAL FRAMING PLAN



BEAM 3 - N. ABUT.

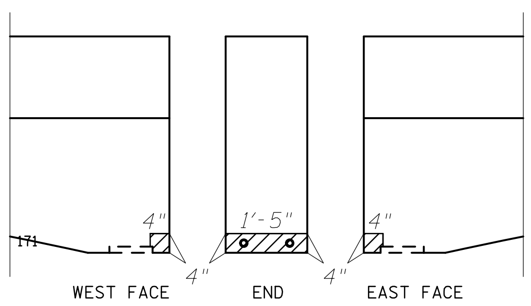


BEAM 4 - S. ABUT.

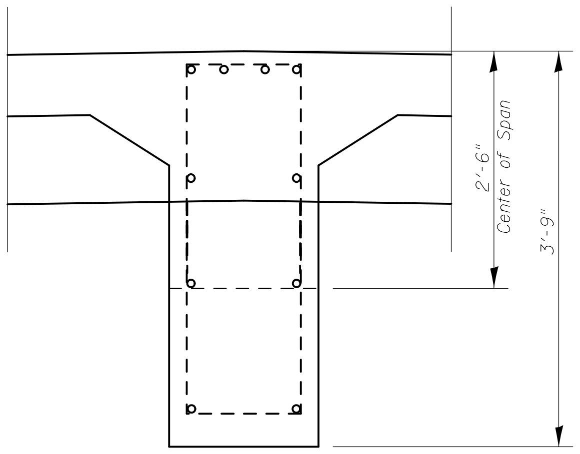


BEAM 4 - N. ABUT.

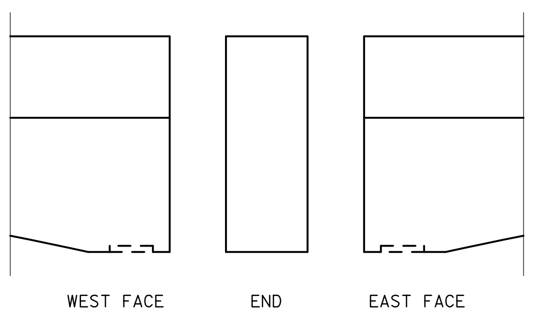
∗ ⅜" ∅ SELF-DRILLING ANCHORS, AS DEAMED NEEDED BY THE ENGINEER AT ALL POLYMER MODIFIED PORTLAND CEMENT MORTAR LOCATIONS



BEAM 5 - S. ABUT.



TYPICAL CROSS SECTION



BEAM 5 - N. ABUT.

NOTES:

THE REPAIR DIMENSIONS AND ESTIMATED QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. THIS INFORMATION IS BASED ON AN INSPECTION FROM APRIL OF 2014. ACTUAL QUANTITIES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. SEE SPECIAL PROVISION FOR POLYMER MODIFIED PORTLAND CEMENT MORTAR. COSTS FOR ALL WORK MATERIALS NECESSARY TO COMPLETE REPAIRS WILL BE PAID FOR AS POLYMER MODIFIED PORTLAND CEMENT MORTAR.

THE REMOVAL OF THE EXISTING CONCRETE AT THE T-GIRDER REPAIR LOCATIONS SHALL BE LIMITED TO ALL LOOSE OR DELAMINATED CONCRETE ONLY. THE CONTRACTOR SHALL USE EXTREME CARE DURING THIS REMOVAL PROCESS TO PREVENT ANY DAMAGE TO THE EXISTING REINFORCEMENT. SPECIAL ATTENTION SHALL ALSO BE GIVEN WHEN USING SELF-DRILLING ANCHORS IN THE PATCH AREAS.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	4.0
PROTECTIVE COAT	SQ YD	1.0

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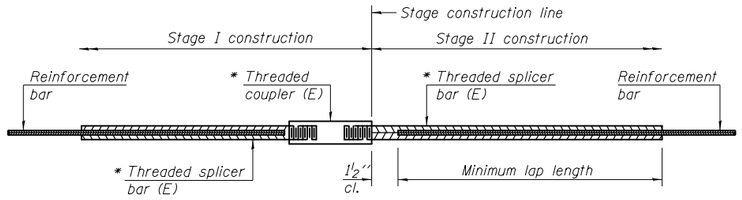
$MODELNAME$	PLOT DATE = 3/16/2015	DATE - 4/21/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM END REPAIR DETAILS
S.N. 023–0005

SCALE: SHEET 10 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	172	56
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

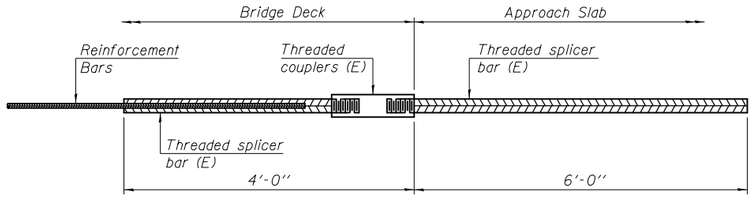
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Class C
Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1½" + thread length

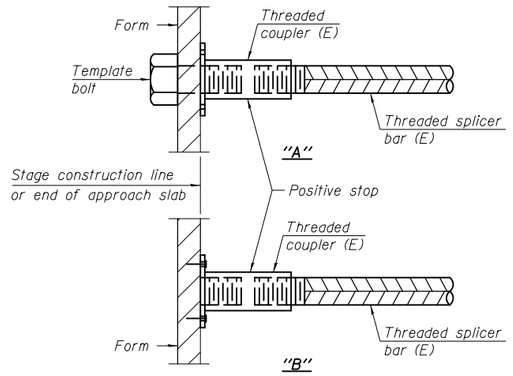
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Structure No.	Location	Bar size	No. assemblies required	Table for minimum lap length
023-0005	APPROACH PAVEMENT	#5	8	3
	DECK END	#5	2	3



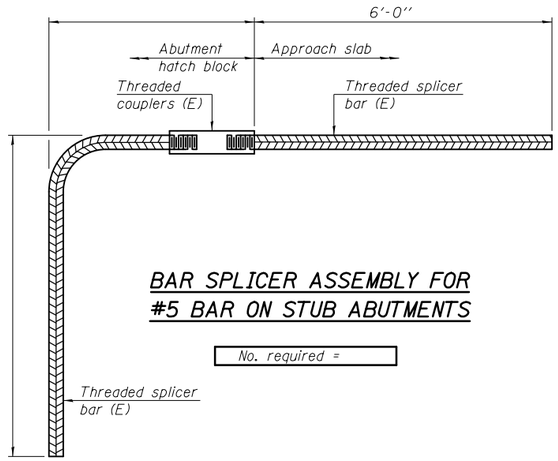
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



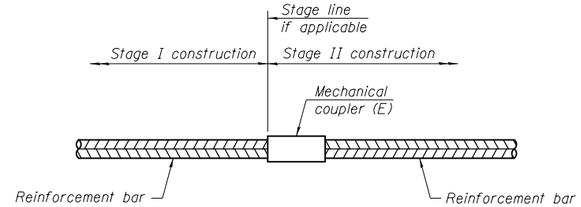
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

P.
332

BSD-1 1-27-12

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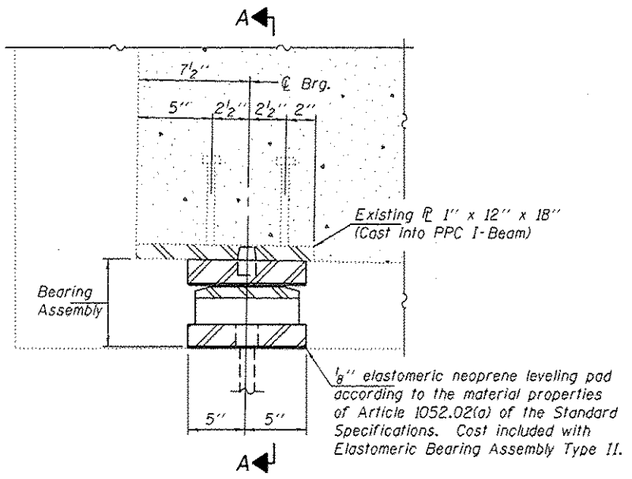
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

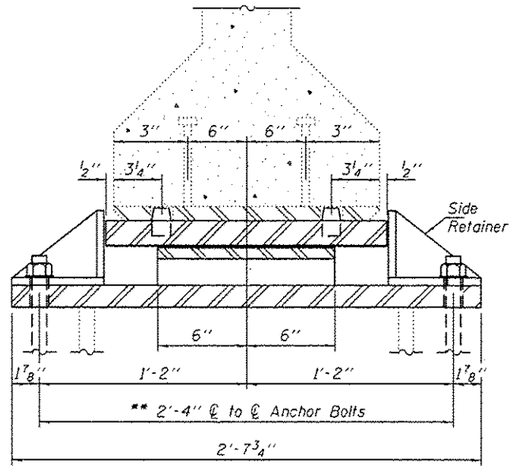
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 023-0004

SCALE: | SHEET 11 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	172	57
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
ILLINOIS FED. AID PROJECT				



ELEVATION AT SOUTH ABUTMENT



SECTION A-A

BEAM REACTIONS

R℞	(K)	29.0
R℄	(K)	35.3
Imp.	(K)	15.1
R (Total)	(K)	79.4

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 40 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

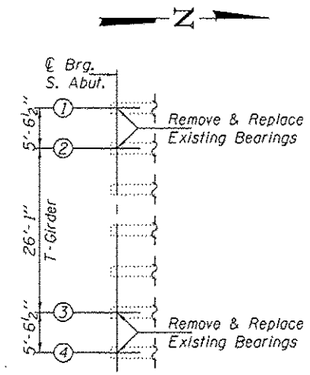
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

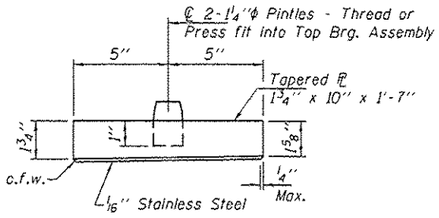
Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



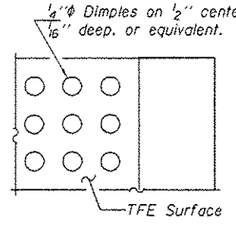
S. ABUT. LOCATION SKETCH

TYPE II TFE ELASTOMERIC EXP. BRG.

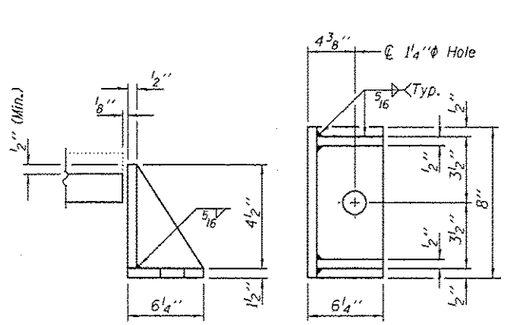
** ℄ 1"℗ x 12" Anchor bolts with 2½" x 2½" x 5/16" ℞ washer under nut. 1½"℗ holes in bottom ℞.



TOP BEARING ASSEMBLY

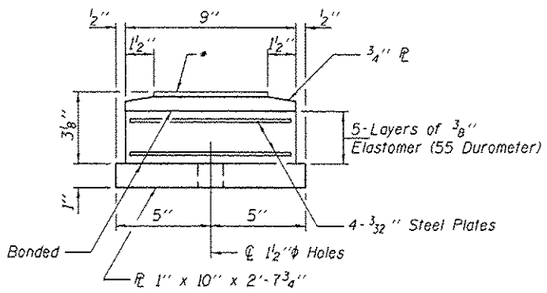


PLAN-PTFE SURFACE

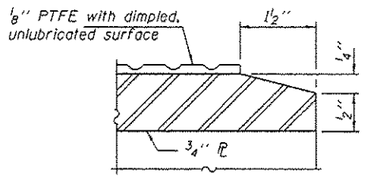


SIDE RETAINER

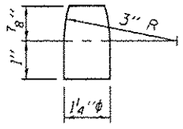
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BOTTOM BEARING ASSEMBLY



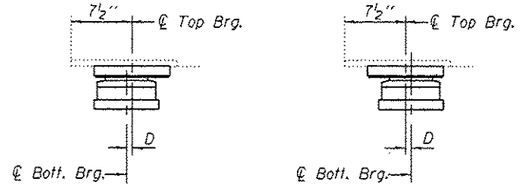
SECTION THRU PTFE



PINTLE

EXISTING BEARING REMOVAL DETAILS

Cost included with Jack and Remove Existing Bearings.



BELOW 50°F.
(Move bott. brg. away from fixed brg.)

ABOVE 50°F.
(Move bott. brg. toward fixed brg.)

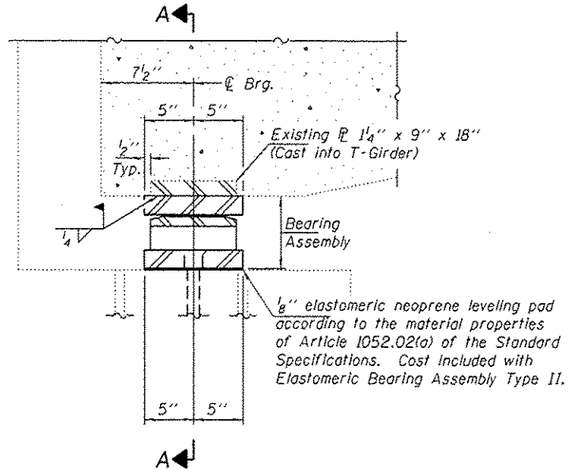
SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

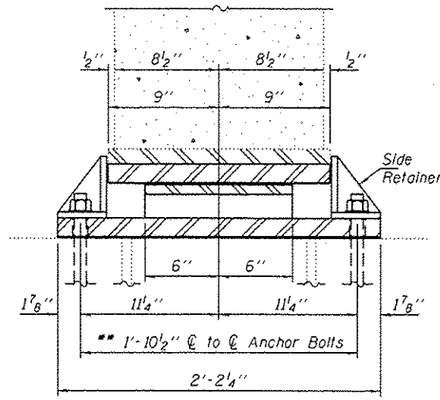
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	4
Jack and Remove Existing Bearings	Each	4
Anchor Bolts 1"℗	Each	8

DESIGNED SMR		DATE APRIL 22, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING REPLACEMENT – S. ABUT. AT PPC I-BEAMS 1 THRU 4 SN 023-0005	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED VHV		REVISED			132	(ICX-1)RS-3(IC-X)RS-6(BDR	EDGAR	171	58
DRAWN Steffen	PASSED	REVISED		SHEET NO. 12 OF 29 SHEETS			CONTRACT NO. 70389		
CHECKED SMR VHV	ACTING ENGINEER OF BRIDGES AND STRUCTURES						ILLINOIS FED. AID PROJECT		



ELEVATION AT SOUTH ABUTMENT



SECTION A-A

** ℄ 1"ϕ x 12" Anchor bolts with 2½" x 2½" x $\frac{5}{16}$" ℄ washer under nut. 1½"ϕ holes in bottom ℄.

BEAM REACTIONS

R℄	(K)	29.0
R℄	(K)	35.3
Imp.	(K)	15.1
R (Total)	(K)	79.4

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 40 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

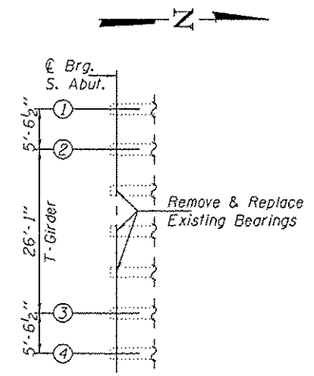
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

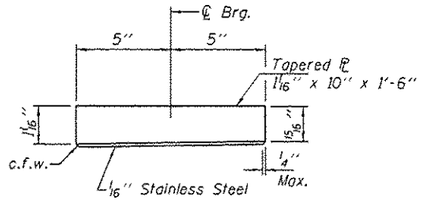
The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

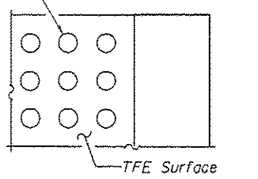


S. ABUT. LOCATION SKETCH

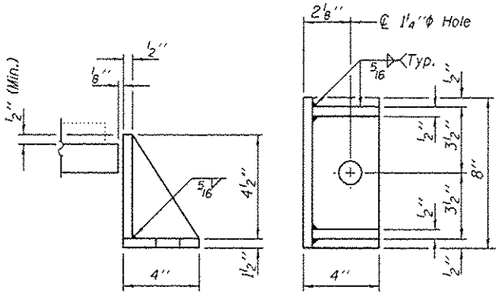
TYPE II TFE ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY

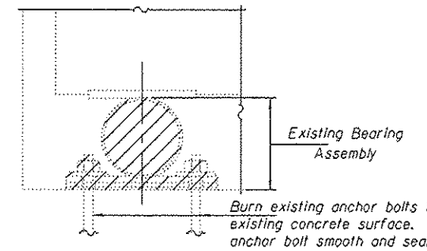


PLAN-PTFE SURFACE



SIDE RETAINER

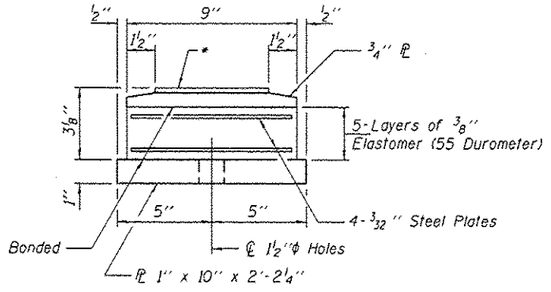
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



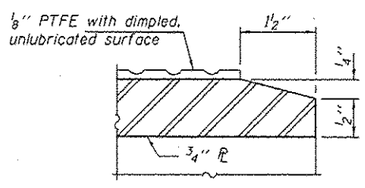
EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

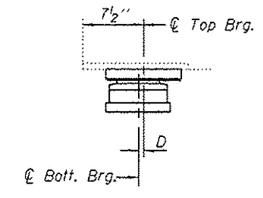
* ⅛" PTFE dimpled, unlubricated



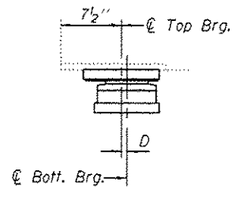
BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



BELOW 50°F.
(Move bott. brg. away from fixed brg.)



ABOVE 50°F.
(Move bott. brg. toward fixed brg.)

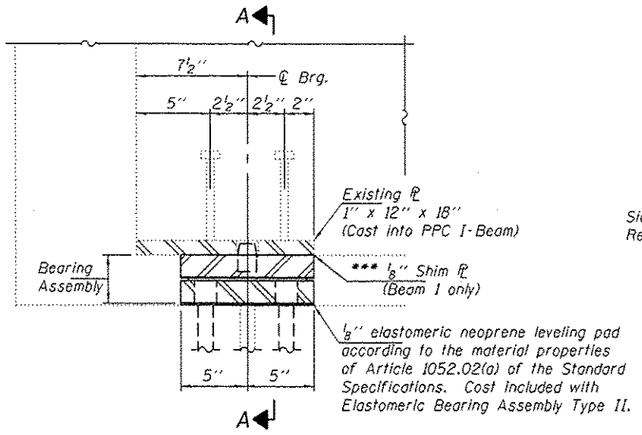
SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

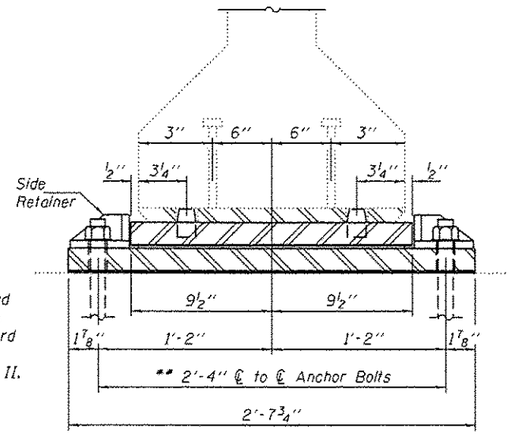
Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	3
Jack and Remove Existing Bearings	Each	3
Anchor Bolts 1"ϕ	Each	6

DESIGNED SMR		DATE APRIL 22, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING REPLACEMENT – S. ABUT. AT T-GIRDER SN 023-0005	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED VHV					132	(ICK-1)RS-3(IC+X)RS-6)BDR	EDGAR	171	59
DRAWN Steffen	PASSED	REVISED						CONTRACT NO. 70389	
CHECKED SMR VHV	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 13 OF 29 SHEETS			ILLINOIS FED. AID PROJECT		



ELEVATION AT NORTH ABUTMENT

*** Cost of ⅛" Shim ℄ included with Elastomeric Bearing Assembly, Type II.



SECTION A-A

** ℄ 1"ϕ x 12" Anchor bolts with 2½" x 2½" x 5/16" ℄ washer under nut. 1½"ϕ holes in bottom ℄.

EXPANSION BEARING

BEAM REACTIONS

R℄	(K)	29.0
R℄	(K)	35.3
Imp.	(K)	15.1
R (Total)	(K)	79.4

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 40 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

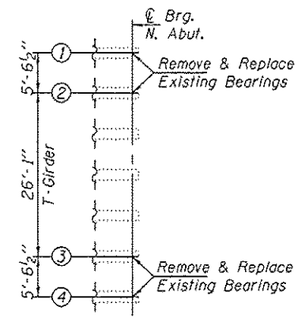
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

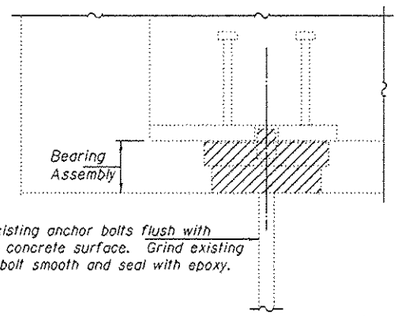
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

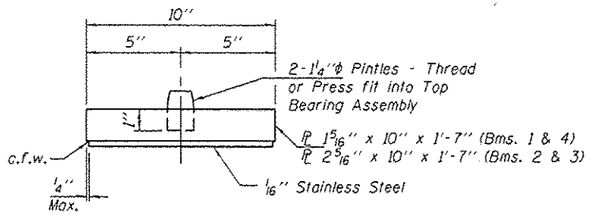


N. ABUT. LOCATION SKETCH

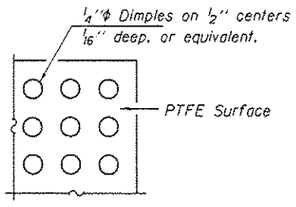


EXISTING BEARING REMOVAL DETAILS

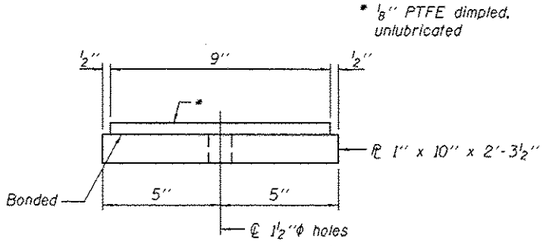
Cost included with Jack and Remove Existing Bearings.



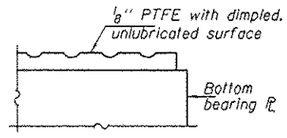
TOP BEARING ASSEMBLY



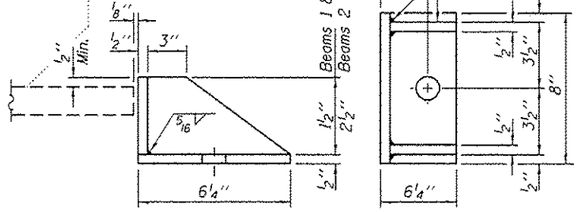
PLAN-TFE SURFACE



BOTTOM BEARING ASSEMBLY

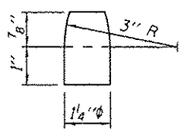


SECTION THRU TFE

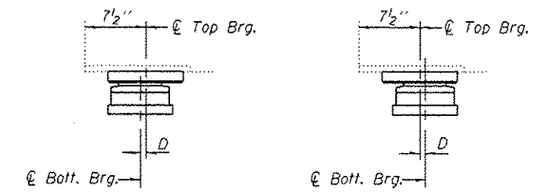


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PINTLE



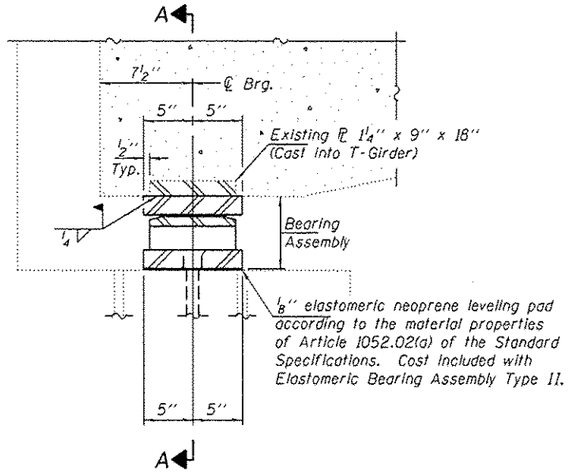
SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

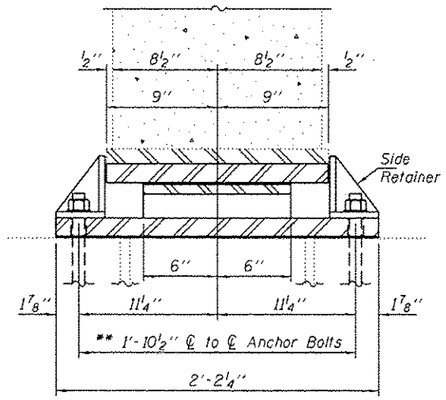
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	4
Jack and Remove Existing Bearings	Each	4
Anchor Bolts 1"ϕ	Each	8

DESIGNED SMR	PASSED	DATE APRIL 22, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING REPLACEMENT – N. ABUT. AT PPC I-BEAMS 1 THRU 4 SN 023-0005	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED VHV		REVISED			132	(ICX-1)RS-3(IC-X)RS-6)BDR	EDGAR	171	60
DRAWN Steffen		REVISED						CONTRACT NO. 70389	
CHECKED SMR VHV	ACTING ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 14 OF 29 SHEETS			ILLINOIS FED. AID PROJECT		



ELEVATION AT SOUTH ABUTMENT



SECTION A-A

** ℄ 1"ϕ x 12" Anchor bolts with 2½" x 2½" x 5/16" ℙ washer under nut. 1½"ϕ holes in bottom ℙ.

BEAM REACTIONS

R℄	(K)	29.0
R℄	(K)	35.3
Imp.	(K)	15.1
R (Total)	(K)	79.4

Notes:

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New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 40 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

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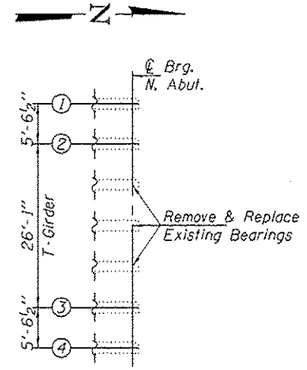
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

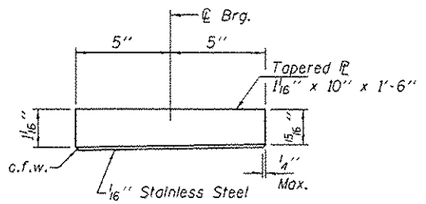
The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

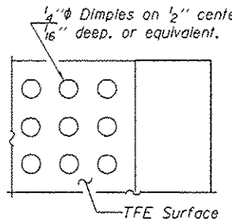


N. ABUT. LOCATION SKETCH

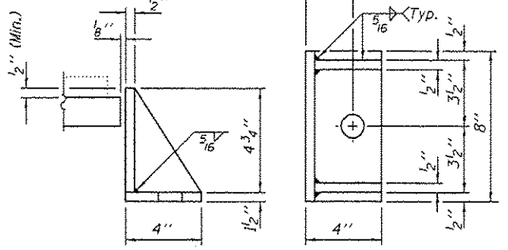
TYPE II TFE ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY

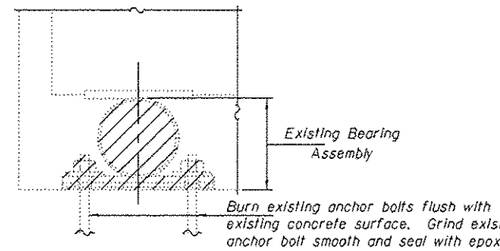


PLAN-PTFE SURFACE



SIDE RETAINER

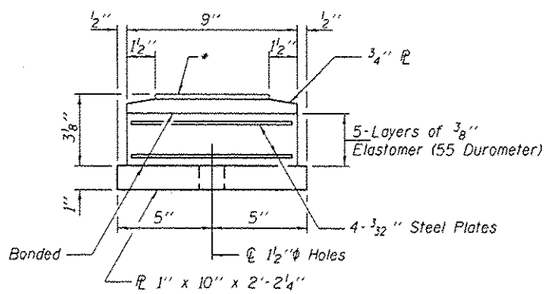
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



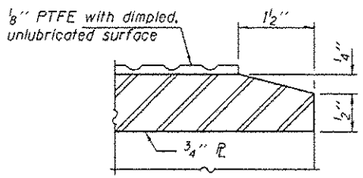
EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

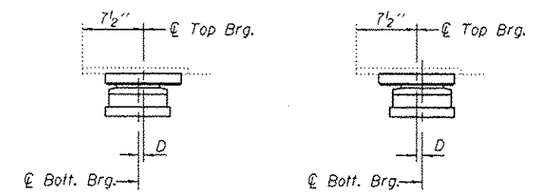
* ⅛" PTFE dimpled, unlubricated



BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



BELOW 50°F.
(Move bott. brg. away from fixed brg.)

ABOVE 50°F.
(Move bott. brg. toward fixed brg.)

BILL OF MATERIAL

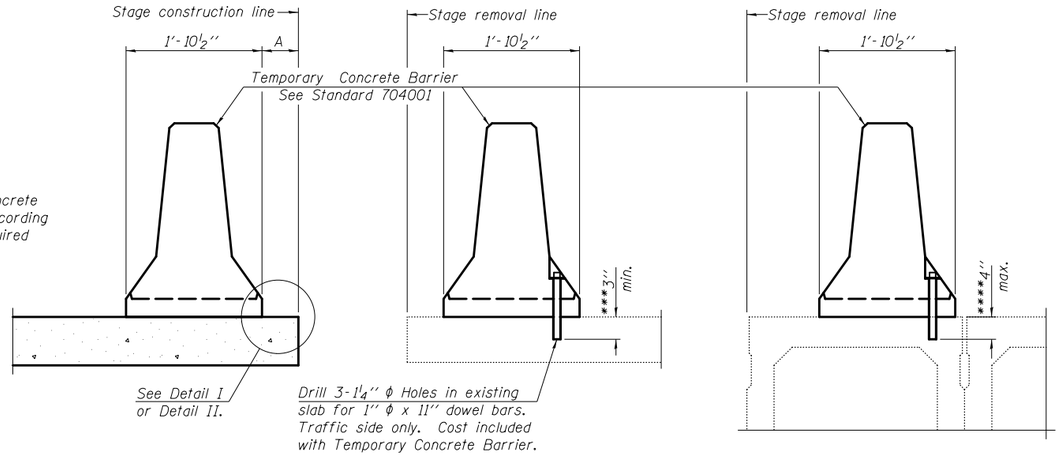
Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	3
Jack and Remove Existing Bearings	Each	3
Anchor Bolts 1"ϕ	Each	6

SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

DESIGNED SMR	PASSED	DATE APRIL 22, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING REPLACEMENT – N. ABUT. AT T-GIRDER SN 023-0005	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED VHV		REVISED			132	(ICX-1)RS-3(IC-X)RS-6)BDR	EDGAR	171	61
DRAWN Steffen	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 15 OF 29 SHEETS				CONTRACT NO. 70389	
CHECKED SMR VHV							ILLINOIS FED. AID PROJECT		

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7' 'x ''W'' steel PL to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel PL to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

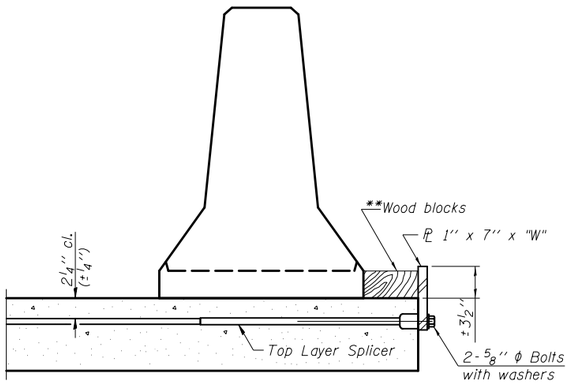
Cost of anchorage is included with Temporary Concrete Barrier.

The 1'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

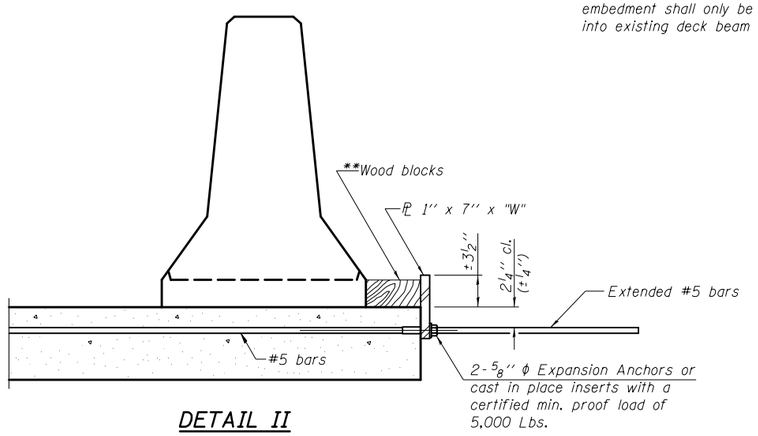
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



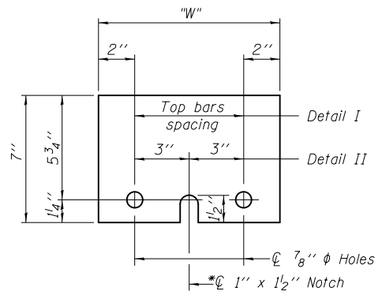
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4''



STEEL RETAINER PL 1'' x 7'' x ''W''

* Required only with Detail II

R-27

7-1-10

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570839\DrawingData\Structures\D570839-str-023-0005.dgn	USER NAME = piersonbr	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

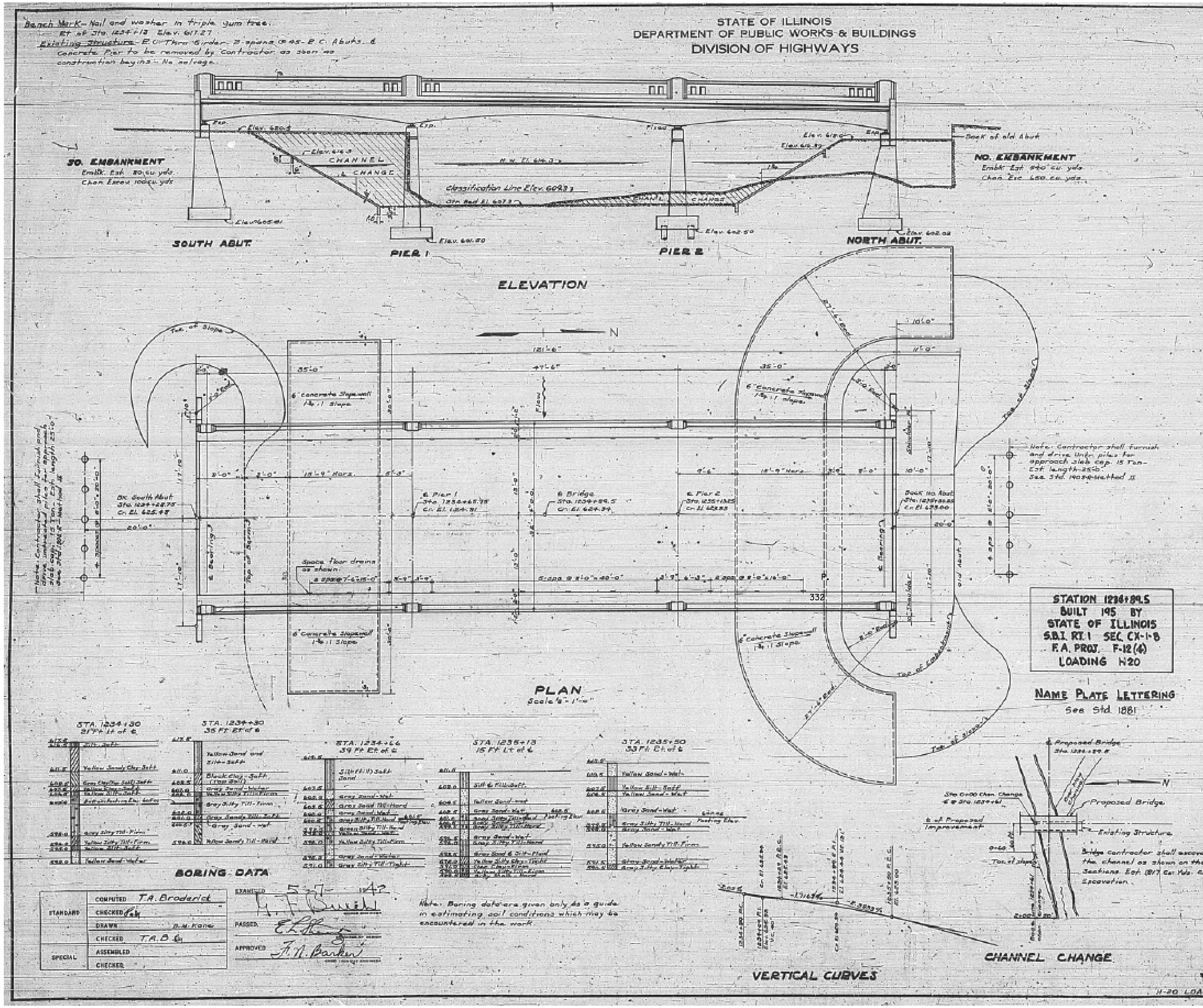
SUPERSTRUCTURE REPAIR DETAIL
S.N. 023-0005

SCALE: | SHEET 16 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	62
	*(CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

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



GENERAL NOTES

Class X Concrete shall be used throughout except as noted. Handrail Concrete shall be used in hand rails.

Class A Concrete shall be used in piers.

Concrete floor slab shall be finished in accordance with Art. 81.3 (e) of the Standard Specifications.

The Concrete floor slab and girders shall be poured in one continuous operation.

Premoulded joint filler shall conform to Art. 115.67 to Art. 115.72 incl. of the Standard Specifications.

Sidewalks and hand rails shall not be poured until after the falsework has been removed.

Slope Wall shall be reinforced with welded wire fabric, 6"x6" mesh, #4 wires weighing 58# per 100 sq. ft.

All Rollers, Rockers, Bearing Plates, Lead Plates and Anchor Bolts shall be furnished, painted and set in accordance with Sec. 84 of the Standard Specifications.

All structural steel shall receive one shop coat of red lead paint, after inspection.

All structural steel shall receive two field coats of white lead paint.

Paint shall be furnished by the Contractor.

The Contractor shall drive one test pile in a permanent location as directed by the Engineer before ordering remainder of the piles.

Before the superstructure is placed, the Bridge Contractor shall construct the embankment around both abutments, from Channel Excavation, in accordance with Sec. 10 of the Specifications.

The remainder of the Channel Excavation is to be placed in the Fill between station 1233 and station 1237.

All reinforcing bars shall conform to A.S.T.M. designation A-305-49.

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

Pavement Removal - Sta. 1234+15 to Sta. 1234+66 and Sta. 1235+60 to Sta. 1235+76
Included in Sec. C-XI-B
120 sq. yds. Pavement Removal

TOTAL BILL OF MATERIAL

ITEM		SUPER.	SUBSTR.	TOTAL
Class X Concrete	Cu. Yds.	188.2	83.1	271.3
Class "A" Concrete	Cu. Yds.		156.8	156.8
Handrail Concrete	Cu. Yds.	12.6		12.6
Reinforcement Bars	Lbs.	51300	10340	61660
Structural Steel	Lbs.	5530		5530
Untreated Piles (15' lg.)	Lin. Ft.			345
Untreated Piles (25' lg.)	Lin. Ft.			1150
Test Piles	Each			ONE
Channel Excavation	Cu. Yds.			1817
Slopewall	Sq. Yds.			370
Removal of Existing Structure	Each			ONE
Pavement Removal	Sq. Yds.			120
Class A Exc. for Struct.	Cu. Yds.		252	252
Class B Exc. for Struct.	Cu. Yds.		370	370
Name Plates	Each	ONE		ONE

PROJ. F-12 (4)
BRIDGE OVER
SOUTH FORK BROUILLETS CREEK
S.B.I. ROUTE 1 - SEC. C-X-1-B
EDGAR COUNTY
STATION 1234+89.5

H-20 LOADING

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570839\CADD Data\Structures\D570839-str-023-0005.dgn	USER NAME = piersonbr	DESIGNED -	REVISED -
$MODELNAME$	PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 3/16/2015	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

SCALE: SHEET 17 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•[(CX-1)RS-3 & (C-X)RS-6]BDR	EDGAR	171	63
		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

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

DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	CX-1-B	Edgar	11	6

SHEET NO. 1 OF 9 SHEETS

END RAIL POST

INTERMEDIATE RAIL POST

SECT. THRU RAIL

ABUTMENT BEARING DETAILS

BEARING DETAILS PIER "1"

BEARING DETAILS PIER "2"

BOTTOM BRG. PLs

BOTTOM BRG. PLs

TOP & BOTTOM BRG. PLs.

HALF-ELEV. OF GIRDERS SHOWING DIMENSIONS AND PARABOLIC OFFSETS

Contractor shall make allowance for settlement, shrinkage of forms and Dead Load Deflection

D. L. DEFLECTION DIAGRAM

ROLLER DETAIL

Note: Roller may be turned from solid.

HALF CROSS SECTION AT ℄ SPAN

HALF CROSS SECTION OVER PIERS

CROSS SECT. OF DIAPH.

STANDARD	COMPUTED	T.A. Broderick	EXAMINED
	CHECKED		PASSED
	DRAWN	B.M. Kane / B.N. Kane	APPROVED
	CHECKED	T.R.S.	
SPECIAL	ASSEMBLED		
	CHECKED		

BRIDGE OVER
SOUTH FORK BROUILLETS CREEK
S. B. I. ROUTE 1 – SEC. C-X-1-B
EDGAR COUNTY
STATION 1234+89.5

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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

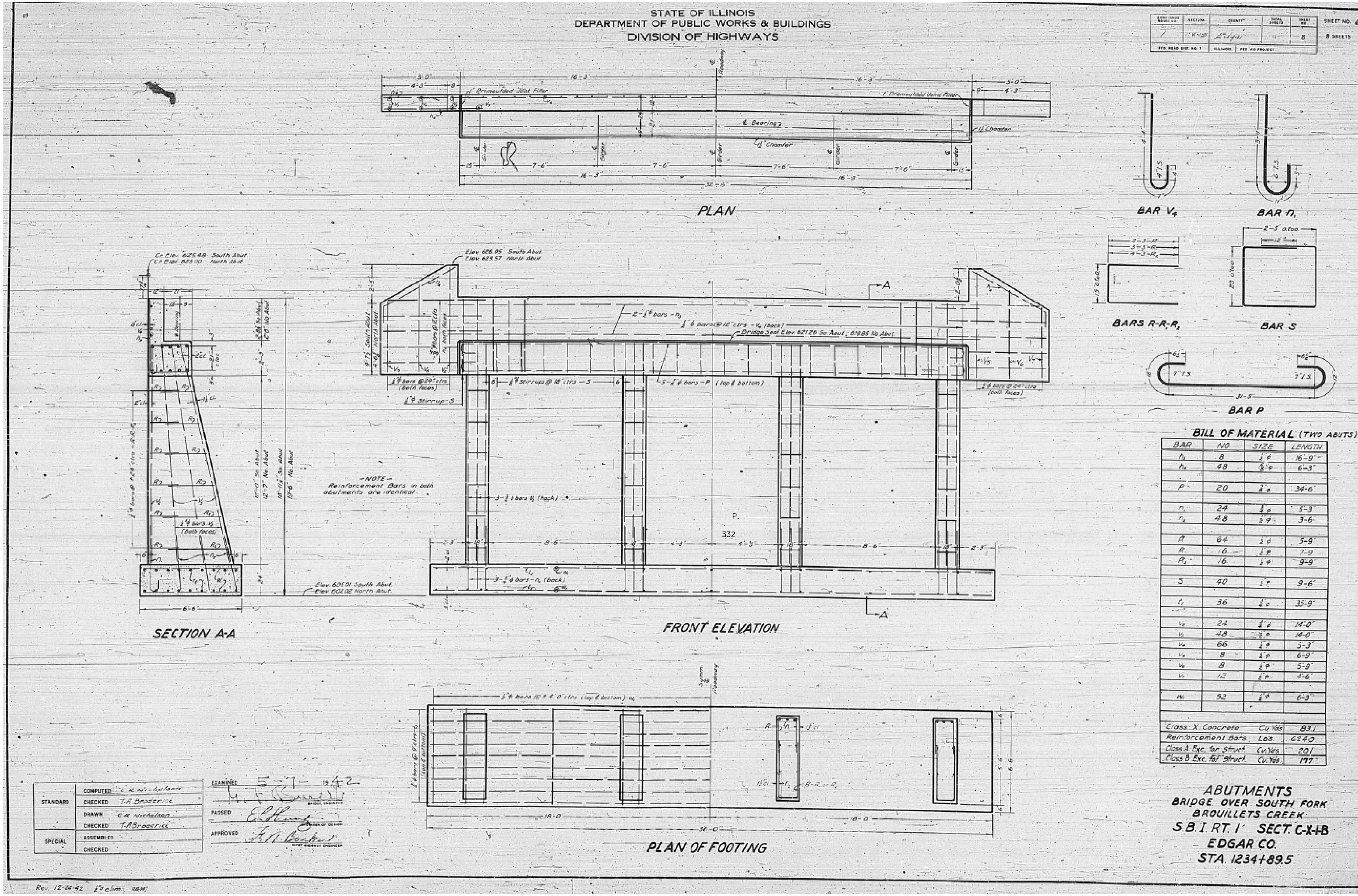
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS–BUILT PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 18 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	64
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005



BILL OF MATERIAL (TWO ABUTS)

BAR	NO	SIZE	LENGTH
h_3	8	½ ⌀	16'-9"
h_4	48	⅝ ⌀	6'-3"
P	20	½ ⌀	34'-6"
n_1	24	½ ⌀	5'-3"
n_2	48	½ ⌀	3'-6"
R	64	½ ⌀	5'-9"
R_1	16	½ ⌀	7'-9"
R_2	16	½ ⌀	9'-9"
S	40	½ ⌀	9'-6"
t_1	36	½ ⌀	35'-9"
v_2	24	½ ⌀	14'-0"
v_3	48	½ ⌀	14'-0"
v_4	66	½ ⌀	5'-3"
v_5	8	½ ⌀	6'-9"
v_6	8	½ ⌀	5'-9"
v_7	12	½ ⌀	4'-6"
w_1	52	½ ⌀	6'-3"

Class X Concrete	Cu. Yds.	83.1
Reinforcement Bars	Lbs.	6240
Class A Exc. for Struct.	Cu. Yds.	201
Class B Exc. for Struct.	Cu. Yds.	177

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
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	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS–BUILT PLANS
FOR INFORMATION ONLY

SCALE: SHEET 19 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	65
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

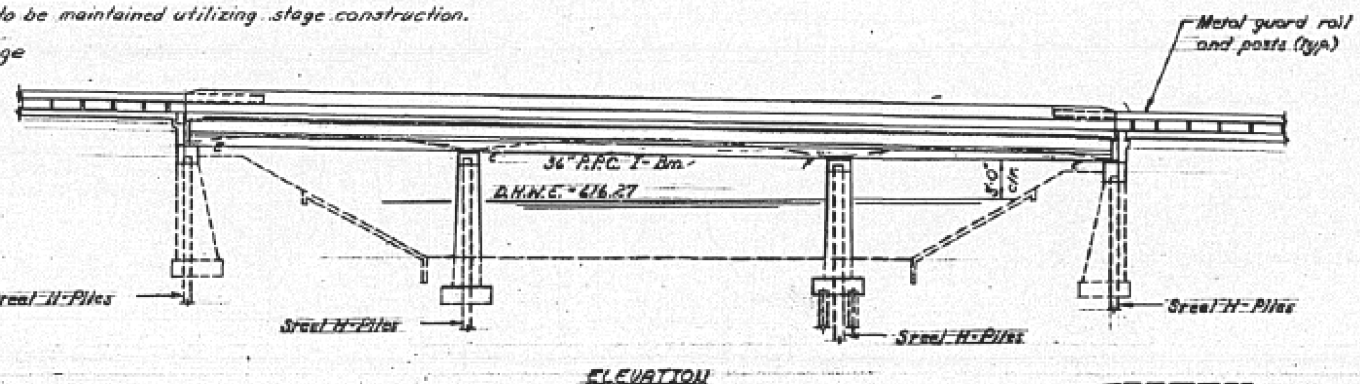
AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

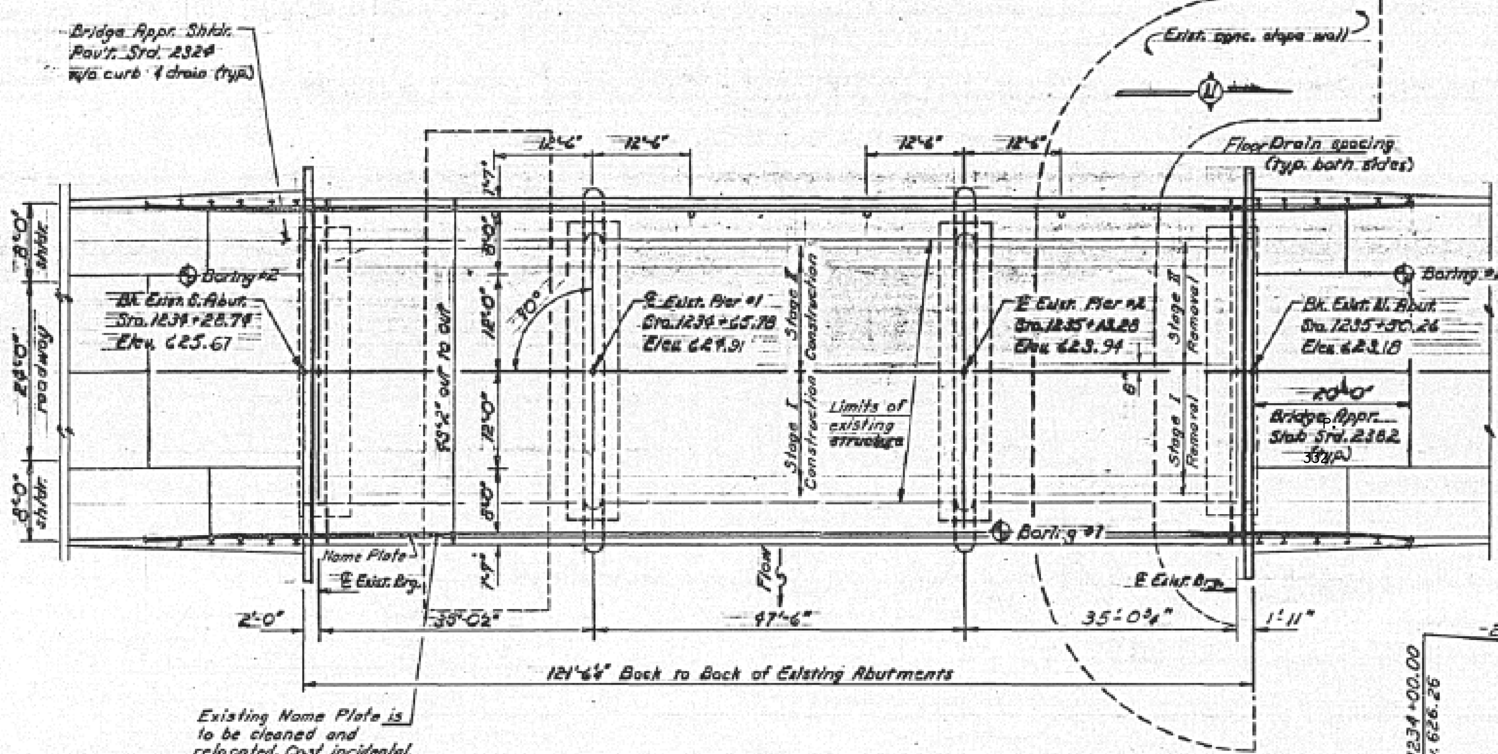
F.A. 132	CX-1-BY	Edgar	138	40	SHEET NO. 1 / 18 SHEETS

Bench Mark: 8-J; Chiseled "o" on south end of west curb of structure Elev. 626.029
Existing Structure: S.N. 023-0005 The existing R.C.D.G. bridge was built by the State in 1952 as part of S.B.I. Route 1, Section CX-1B. The structure is 121'-6¼" back to back of existing abutments and 32'-9" out to out of deck. In 1979 the structure was patched, waterproofed and overlayed with 1½" of bituminous overlay. The contractor shall widen the structure by removing the fascia beams and installing four 36" P.P.C. I-beams to provide a 40'-0" horizontal clearance.
Traffic to be maintained utilizing stage construction.

No Salvage



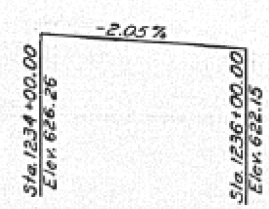
ELEVATION



PLAN

STATION 1234+89.50
REBUILT 198_ BY
STATE OF ILLINOIS
F.A.P. RT. 132 SEC. CX-1-BY
F.A. PROJECT F-132(93)
LOADING HS20
STR. No. 023-0005

NAME PLATE
See Std. 2113



PROFILE GRADE

GENERAL NOTES

See Proposal for Boring Data.

All structural steel shall be shop painted with the zinc-silicate and vinyl paint system.

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

Shoulder transition to wingwall shall be shaped with broken concrete. Cost Incidental.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

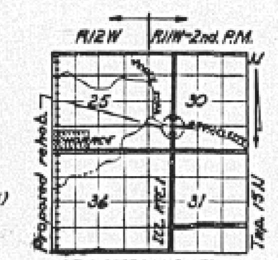
Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and ¾"ϕ x 12" hooked bolts.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

The contractor shall drive one steel HP10x42 test pile in a permanent location at Pier 1 and one steel HP10x42 test pile in a permanent location at the North Abutment as directed by the Engineer before ordering the remainder of piles.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course, Class I	Ton	58		58
Concrete Removal	Cu. Yd.	99	12	111
Expansion Bolts ¾ Inch	Each	12	108	120
Structure Excavation	Cu. Yd.		43	43
Floor Drains	Each	8		8
Protective Coat	Sq. Yd.	109		109
Class X Concrete	Cu. Yd.	114.7	51.5	166.2
Precast Prestressed Concrete I-Beams, 36 In.	Lin. Ft.	471		471
Structural Steel	Lbs.	4,930		4,930
Reinforcement Bars	Lbs.	790	4,720	5,510
Reinforcement Bars (Epoxy Coated)	Lbs.	29,110		29,110
Steel Piles HP10x42	Lin. Ft.		208	208
Test Pile Steel HP10x42	Each		2	2
Name Plates	Each			1
Bituminous Concrete Surface Removal	Sq. Yd.	252		252
Preformed Joint Seal 2½"	Lin. Ft.	43		43
Preformed Joint Seal 4"	Lin. Ft.	43		43
Elastomeric Bearing Assembly, Type I	Each	12		12
Elastomeric Bearing Assembly, Type II	Each	4		4
Waterproofing Membrane System	Sq. Yd.	530		530



LOCATION SKETCH

GENERAL PLAN
ILLINOIS ROUTE 1 OVER
SOUTH FORK BROUILLETTS CREEK
F.A.P. ROUTE 132 - SEC. CX-1-BY
EDGAR COUNTY
STATION 1234+89.5
STRUCTURE NO. 023-0005

DESIGNED	Tewelde Debesai
CHECKED	Mary Bloxdorf
DRAWN	Paul Summer
CHECKED	Mary Bloxdorf

March 6, 1986
EXAMINED Engineer of Bridge Design
PASSED Engineer of Bridges and Structures
APPROVED Director of Highways

DESIGN STRESSES (NEW CONSTRUCTION)

Precast Prestressed Units
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (½"ϕ strands)
f'si = 189,000 psi (½"ϕ strands)

Field Units
f'c = 3,500 psi
fy = 60,000 psi (reinf.)

DESIGN SPECIFICATIONS
1983 AASHTO
and applicable Interims (1984)

LOADING HS20-44
(New construction only)

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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

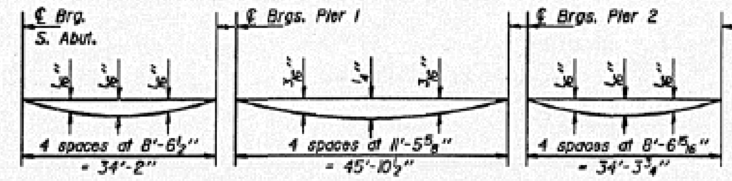
SCALE: SHEET 20 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	66
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

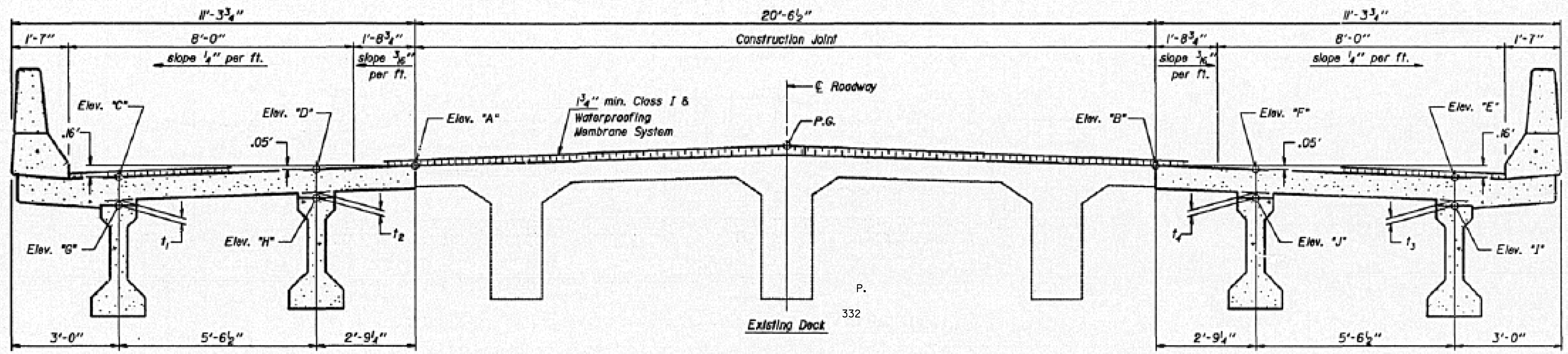
AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 4
18 SHEETS



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete slab only)



P.
332

CROSS SECTION
(Looking North)
(Showing fillet heights "t_n")

To determine "t_n": After all precast prestressed beams have been erected, elevations shall be taken at the top of concrete at the slab construction joints every ten feet along the length of the bridge. These are designated as Elev. "A" and Elev. "B" as shown in the Cross Section above. The theoretical grade elevations at each of the beams may then be calculated as follows:

Elev. "C" = (Elev. "A") - .16
Elev. "D" = (Elev. "A") - .05
Elev. "E" = (Elev. "B") - .16
Elev. "F" = (Elev. "B") - .05

Next the elevations of the beams shall be taken at the same intervals as those used for Elev. "A" and Elev. "B". These are designated as Elev. "G", Elev. "H", Elev. "I" and Elev. "J". Then the fillet heights "t_n" are computed as follows:

t_1 = (Elev. "C") - (Elev. G) - (.625) + (Dead Load Deflection)
t_2 = (Elev. "D") - (Elev. H) - (.625) + (Dead Load Deflection)
t_3 = (Elev. "E") - (Elev. I) - (.625) + (Dead Load Deflection)
t_4 = (Elev. "F") - (Elev. J) - (.625) + (Dead Load Deflection)

where slab thickness is .625. These elevations and fillet heights will result in a varying thickness of Class I Surfacing.

DESIGNED Teweldе Debe sai
CHECKED Mary Bloxdorf
DRAWN R. P. Summer
CHECKED Mary Bloxdorf

March 6 1986
EXAMINED
PASSED
APPROVED

PI-E

TOP OF SLAB ELEVATIONS
F.A.P. RT. 132 SEC. CX-1-BY
EDGAR COUNTY
STA. 1234+89.50

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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

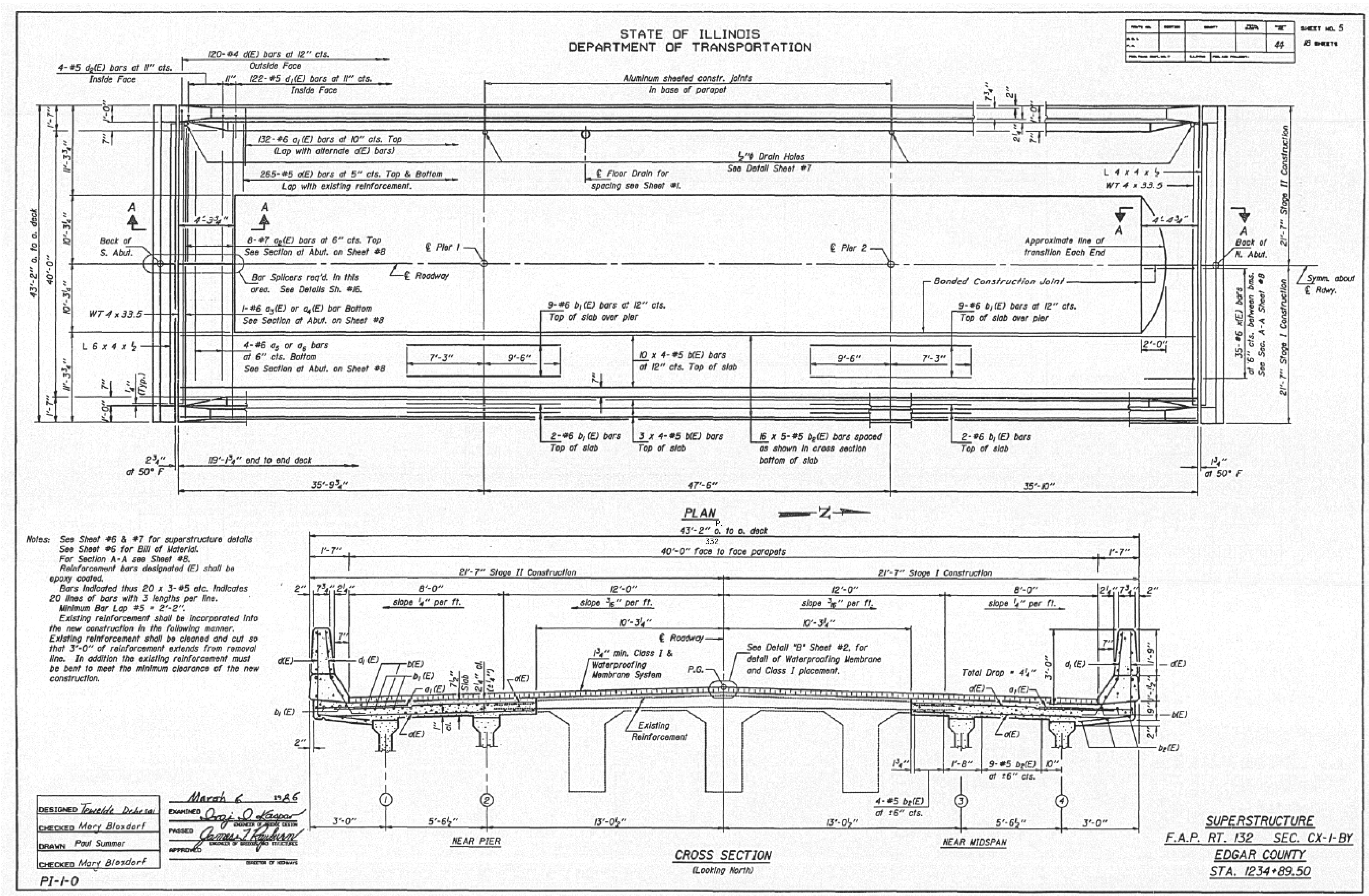
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

SCALE: SHEET 21 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	67
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

AS-BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023-0005



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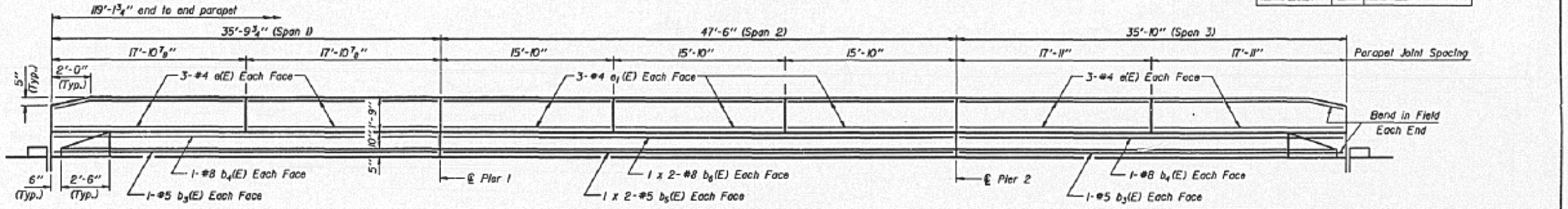
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D57...	PLOT SCALE = 40.0000 ' / in.	DRAWN - / CHECKED -	REVISED -			332	•	EDGAR	171	68
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -		SCALE: SHEET 22 OF 29 SHEETS STA. TO STA.	•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
							ILLINOIS FED. AID PROJECT			

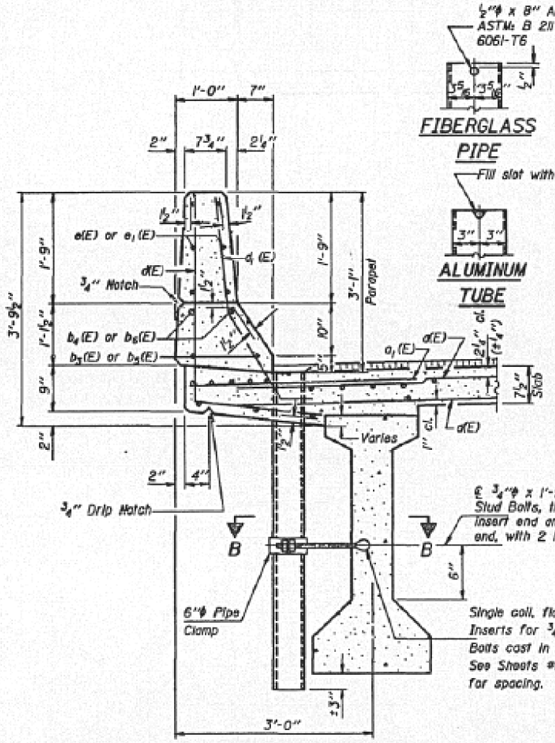
AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

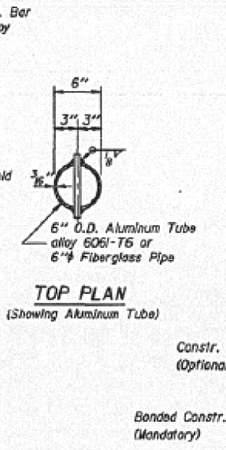
SHEET NO. 6
45
18 SHEETS



INSIDE ELEVATION OF PARAPET

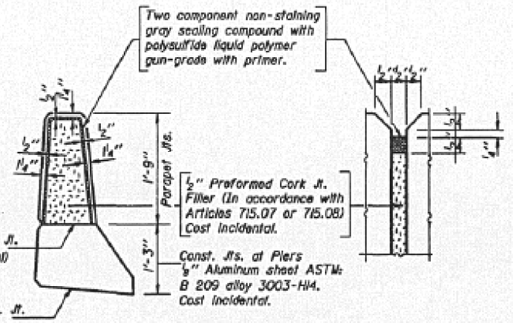


SECTION THRU PARAPET



TOP PLAN
(Showing Aluminum Tube)

TOP PLAN



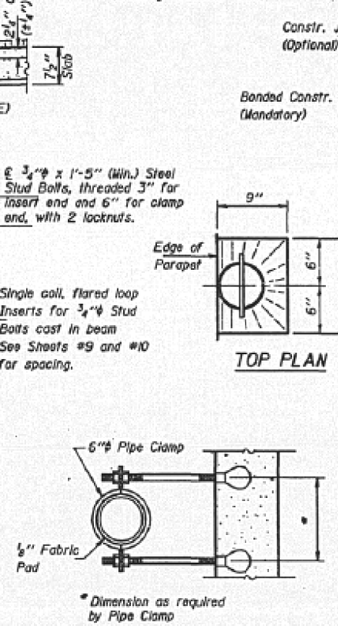
PARAPET JOINT DETAILS

Notes: Fiberglass pipe shall conform to ASTM: D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.

The exterior surfaces of the Fiberglass Floor Drains shall be painted with one coat of Aluminum paint. Painting of the Fiberglass Floor Drains will not be required when the exterior surfaces of the furnished drains are coated by the manufacturer with silver pigment or a pigment that matches the color of the concrete beam.

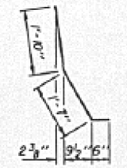
The clamping device and inserts shall be galvanized in accordance with A.A.S.H.T.O. M-232.

Notes: Minimum Bar Lap #5 = 2'-2".
Minimum Bar Lap #8 = 4'-6".

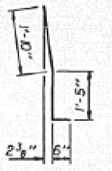


SECTION B-B

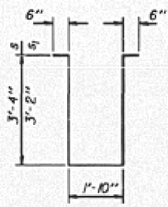
BAR d(E)



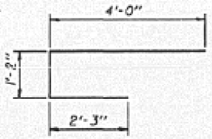
BAR d_1(E)



BAR d_2(E)



BARS s & s_1



BAR x(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	1060	#5	10'-0"	—
a_1(E)	264	#6	4'-0"	—
a_2(E)	32	#7	21'-3"	—
a_3(E)	4	#6	4'-9"	—
a_4(E)	4	#6	12'-3"	—
a_5	16	#6	4'-9"	—
a_6	16	#6	12'-3"	—
b(E)	104	#5	31'-4"	—
b_1(E)	44	#6	16'-9"	—
b_2(E)	160	#5	25'-6"	—
b_3(E)	8	#5	35'-6"	—
b_4(E)	8	#8	35'-6"	—
b_5(E)	8	#5	24'-9"	—
b_6(E)	8	#8	25'-11"	—
d(E)	240	#4	5'-3"	L
d_1(E)	244	#5	3'-11"	L
d_2(E)	16	#5	3'-9"	L
e(E)	48	#4	17'-7"	—
e_1(E)	36	#4	15'-7"	—
m	16	#4	4'-9"	—
m_1	8	#6	3'-9"	—
m_2	4	#8	3'-3"	—
m_3	4	#8	5'-6"	—
m_4	16	#4	2'-3"	—
m_5	8	#6	1'-9"	—
s	12	#4	9'-6"	⊔
s_1	12	#4	9'-2"	⊔
x(E)	140	#6	7'-5"	⊏
Reinforcement Bars (Epoxy Coated)			Lbs.	29,110
Reinforcement Bars			Lbs.	790
Class X Concrete			Cu. Yd.	114.7
Concrete Removal			Cu. Yd.	99
¾"ϕ Expansion Bolts			Each	12

Reinforcement bars designated (E) shall be epoxy coated.

SUPERSTRUCTURE DETAILS
F.A.P. RT. 132 SEC. CX-1-BY
EDGAR COUNTY
STA. 1234+89.50

DESIGNED	Teweldebirhan		
CHECKED	Mary Bloxdorf	EXAMINED	March 6 1986
DRAWN	Paul Summer	PASSED	
CHECKED	Mary Bloxdorf	APPROVED	

PI-1-D

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570839\Data\Structures\D570839-str-023-0005.dgn	USER NAME = piersonbr	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS–BUILT PLANS
FOR INFORMATION ONLY

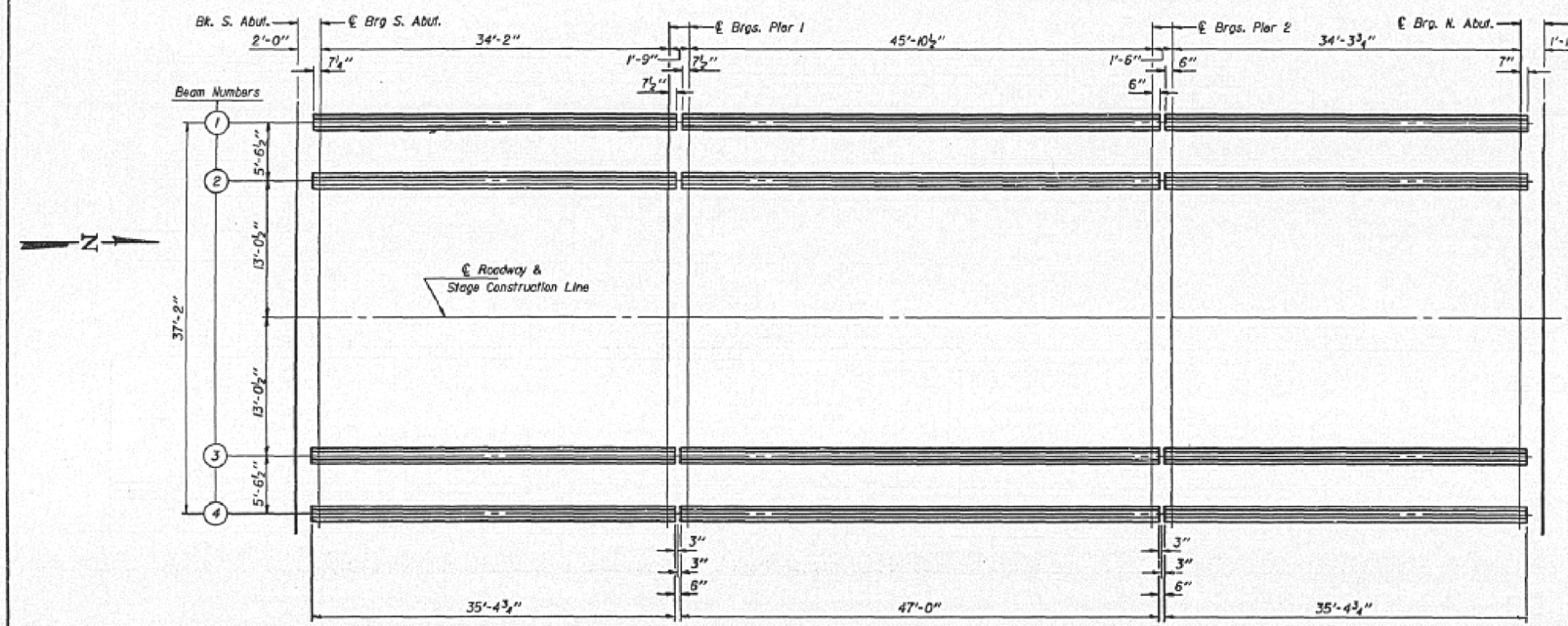
SCALE: | SHEET 23 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	69
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

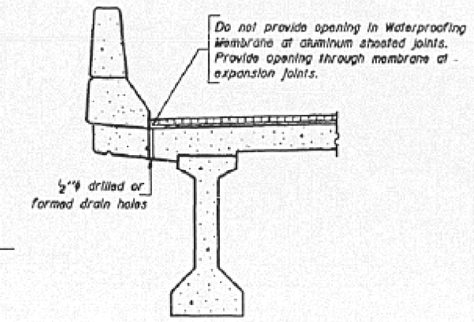
AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

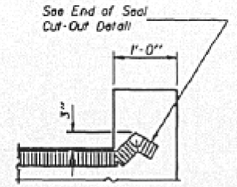
SHEET NO. 7
46 SHEETS



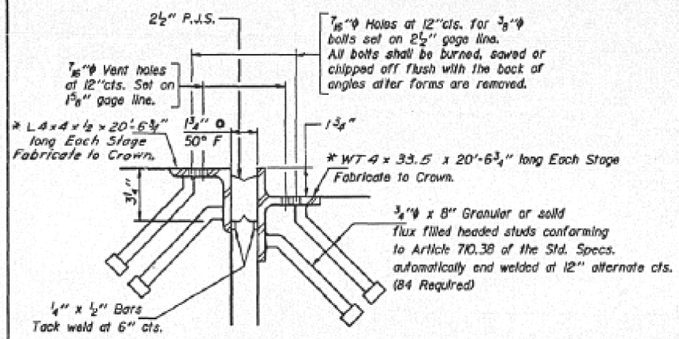
FRAMING PLAN



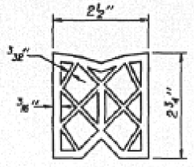
½"ϕ DRAIN HOLE DETAIL



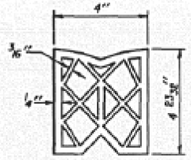
TYPICAL END OF SEAL TREATMENTS



DETAIL "A"
(At N. Abut.)



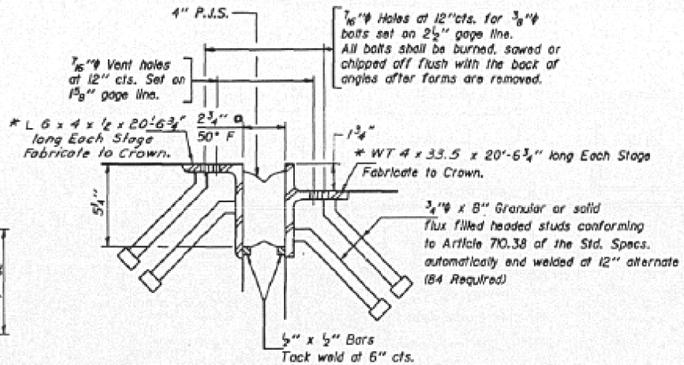
PREFORMED JOINT SEAL (2½")



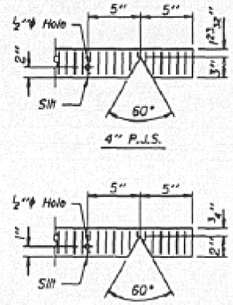
PREFORMED JOINT SEAL (4")

P.
332

* Butt weld ends of angles and bars at Stage Line.



DETAIL "B"
(At S. Abut.)



SEAL CUT-OUT

DESIGNED	Tewlide Dekesai	March 6	1986
CHECKED	Mary Blaxdorf	EXAMINED	Engineer of Bridge Design
DRAWN	Paul Summer	PASSED	Engineer of Bridges and Structures
CHECKED	Mary Blaxdorf	APPROVED	Director of Highways

SUPERSTRUCTURE DETAILS
F.A.P. RT. 132 SEC. CX-1-BY
EDGAR COUNTY
STA. 1234+89.50

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570839-str-023-0005.dgn		DRAWN	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

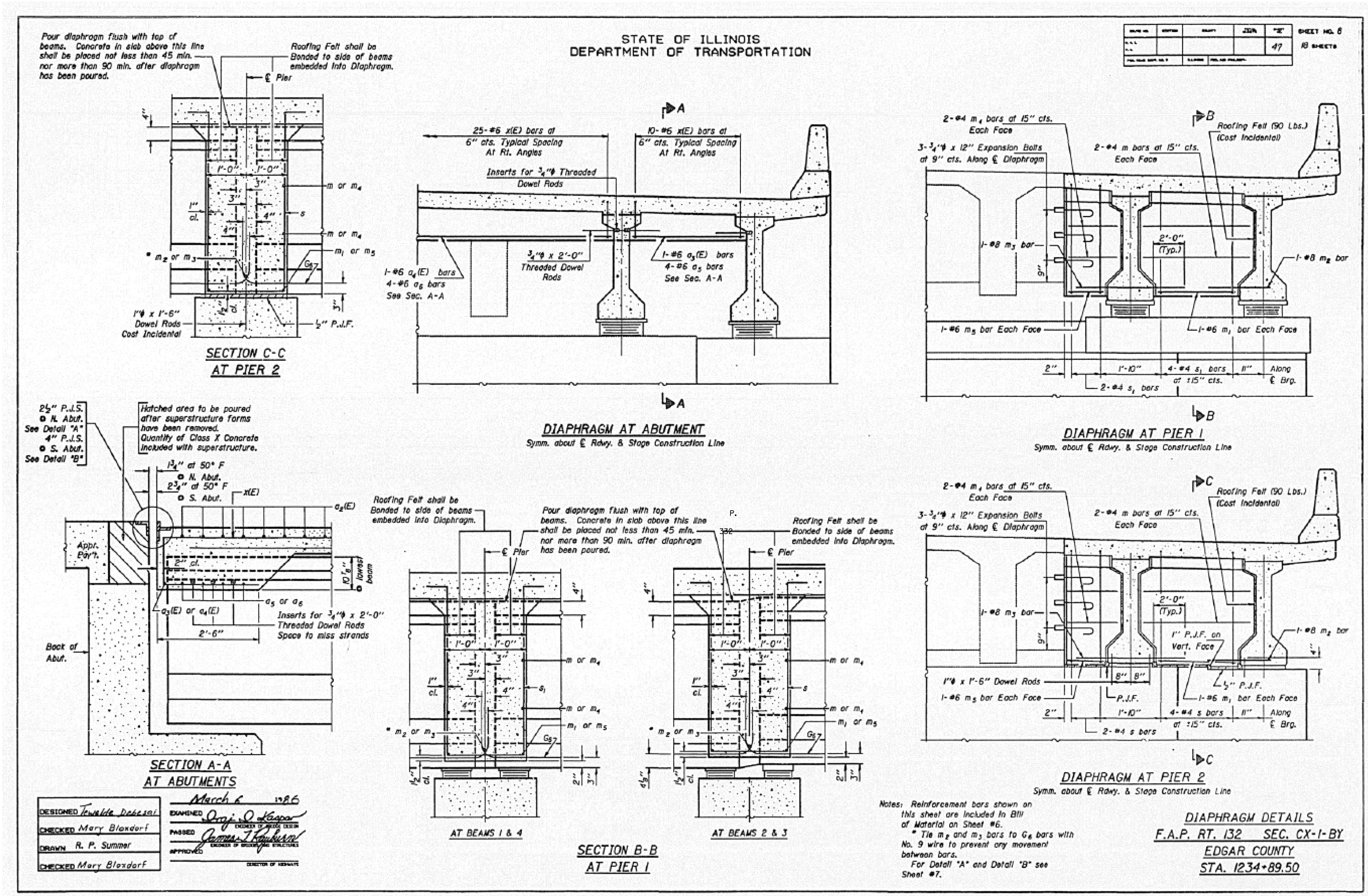
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS–BUILT PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 24 OF 29 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	70
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SHEET NO. 8
18 SHEETS
47
Pour diaphragm flush with top of beams. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.
Roofing Felt shall be Bonded to side of beams embedded into Diaphragm.
℄ Pier
1'-0"
m or m4
s
m1 or m5
* m2 or m3
G6,7
1"⌀ x 1'-6" Dowel Rods Cost Incidental
½" P.J.F.
SECTION C-C
AT PIER 2
25-#6 x(E) bars at 6" cts. Typical Spacing At Rt. Angles
10-#6 x(E) bars at 6" cts. Typical Spacing At Rt. Angles
Inserts for ¾"⌀ Threaded Dowel Rods
¾"⌀ x 2'-0" Threaded Dowel Rods
1-#6 a3(E) bars
4-#6 a5 bars
See Sec. A-A
1-#6 a4(E) bars
4-#6 a6 bars
See Sec. A-A
DIAPHRAGM AT ABUTMENT
Symm. about ℄ Rdwy. & Stage Construction Line
2-#4 m4 bars at 15" cts. Each Face
3-¾"⌀ x 12" Expansion Bolts at 9" cts. Along ℄ Diaphragm
2-#4 m bars at 15" cts. Each Face
Roofing Felt (90 Lbs.) (Cost Incidental)
1-#8 m3 bar
2'-0" (Typ.)
1-#8 m2 bar
1-#6 m5 bar Each Face
1-#6 m1 bar Each Face
1'-10"
4-#4 s1 bars at ±15" cts.
2-#4 s1 bars
Along ℄ Brg.
DIAPHRAGM AT PIER 1
Symm. about ℄ Rdwy. & Stage Construction Line
2½" P.J.S. @ N. Abut. See Detail "A"
4" P.J.S. @ S. Abut. See Detail "B"
Hatched area to be poured after superstructure forms have been removed. Quantity of Class X Concrete included with superstructure.
1¾" at 50° F @ N. Abut.
2¾" at 50° F @ S. Abut.
x(E)
a2(E)
Appr. Pav't.
10⅞" @ lowest beam
a5 or a6
a3(E) or a4(E)
Inserts for ¾"⌀ x 2'-0" Threaded Dowel Rods Space to miss strands
2'-6"
Back of Abut.
SECTION A-A
AT ABUTMENTS
AT BEAMS 1 & 4
AT BEAMS 2 & 3
SECTION B-B
AT PIER 1
1" P.J.F. on Vert. Face
1"⌀ x 1'-6" Dowel Rods
P.J.F.
½" P.J.F.
4-#4 s bars at ±15" cts.
2-#4 s bars
DIAPHRAGM AT PIER 2
Symm. about ℄ Rdwy. & Stage Construction Line
Notes: Reinforcement bars shown on this sheet are included in Bill of Material on Sheet #6.
* Tie m2 and m3 bars to G6 bars with No. 9 wire to prevent any movement between bars.
For Detail "A" and Detail "B" see Sheet #7.
DIAPHRAGM DETAILS
F.A.P. RT. 132 SEC. CX-1-BY
EDGAR COUNTY
STA. 1234+89.50
DESIGNED Tewelde Debesai
CHECKED Mary Bloxdorf
DRAWN R. P. Summer
CHECKED Mary Bloxdorf
March 6 1986
EXAMINED
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

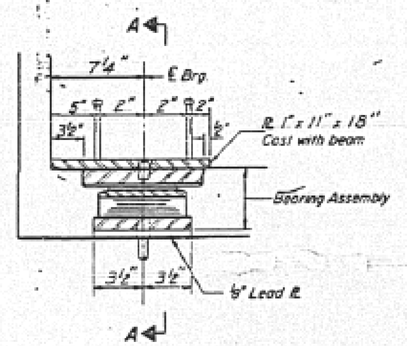
FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS-BUILT PLANS FOR INFORMATION ONLY
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D57083...\Data\Structures\D570839-str-023-0005...dgn		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -		SCALE: SHEET 25 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	71
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

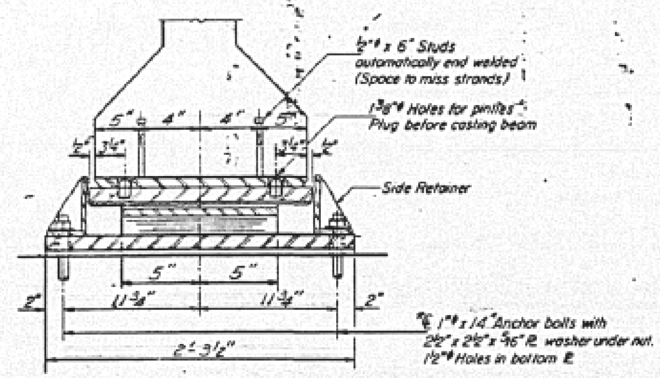
AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				50	SHEET NO. 11 / 18 SHEETS



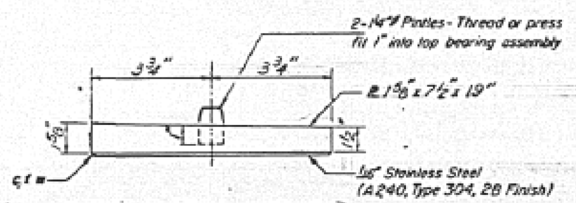
SECTION AT S. ABUT.



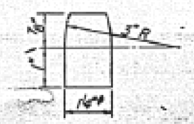
SECTION A-A

TYPE II TFE ELASTOMERIC EXP. BRG.

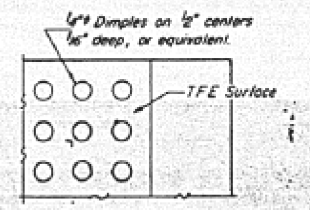
*Note: After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. See Sheet 13 for Anchor Bolt installation.



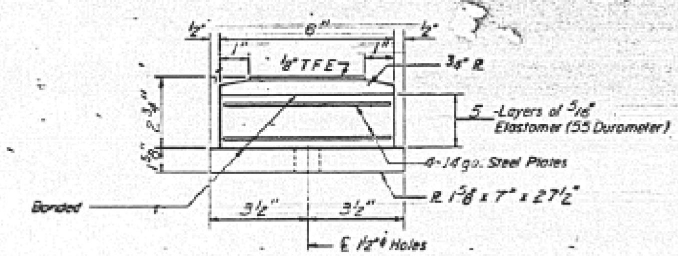
TOP BEARING ASSEMBLY



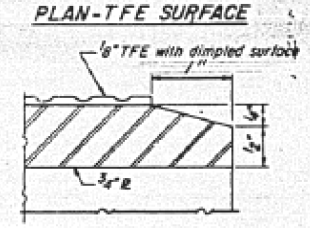
PINTLE



PLAN-TFE SURFACE



BOTTOM BEARING ASSEMBLY

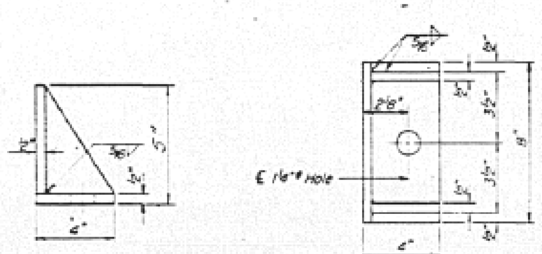


SECTION THRU TFE

P.
332

Note: The ⅛" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

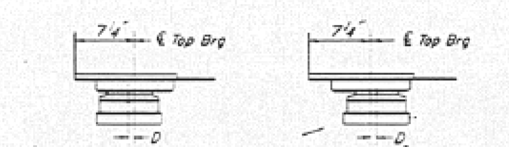


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	4



BELOW 50°F (Move bolt brg away from fixed brg.) ABOVE 50°F (Move bolt brg toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = ⅛" per each 100' of expansion for every 15° temp change from the normal temp. of 50°F

DESIGNED	Toukik Dabessi
CHECKED	Mary Blaxdorf
DRAWN	Paul Summer
CHECKED	Mary Blaxdorf

March 6 1966
EXAMINED — ENGINEER OF BRIDGE DESIGN
PASSED — ENGINEER OF BRIDGES AND STRUCTURES
APPROVED — DIRECTOR OF HIGHWAYS

PI-2E-2 4-5-53

BEARING DETAILS
SOUTH ABUTMENT
F.A.P. RT. 132 SEC. CX-1-BY
EDGAR COUNTY
STA. 1234+89.50

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		DRAWN	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS–BUILT PLANS
FOR INFORMATION ONLY

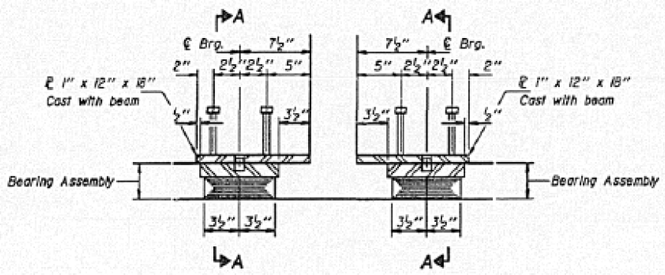
SCALE: SHEET 26 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	72
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

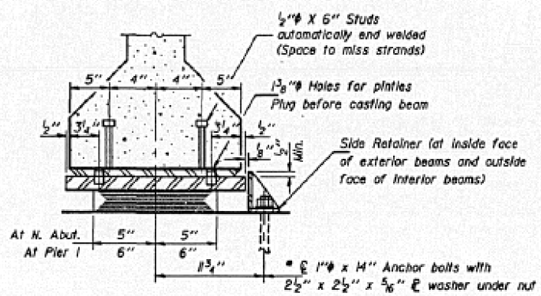
AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 12
51
18 SHEETS

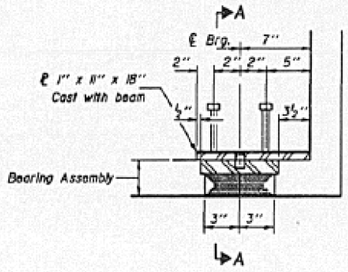


SECTION AT PIER I

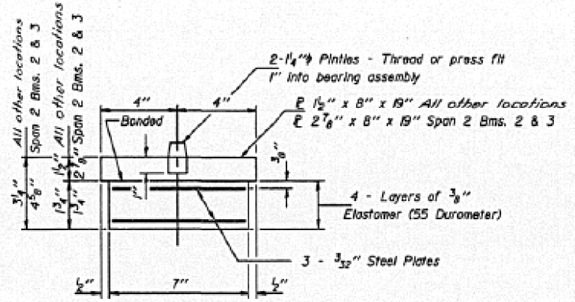


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

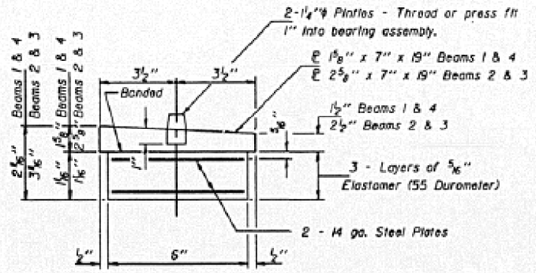


SECTION AT N. ABUT.

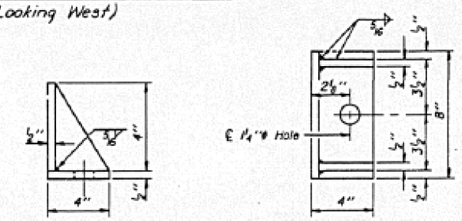


BEARING ASSEMBLY AT PIER I

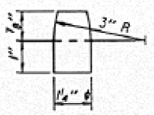
* After beams have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. See Sheet 13 for Anchor Bolt Installation.



BEARING ASSEMBLY AT N. ABUT.
(Looking West)



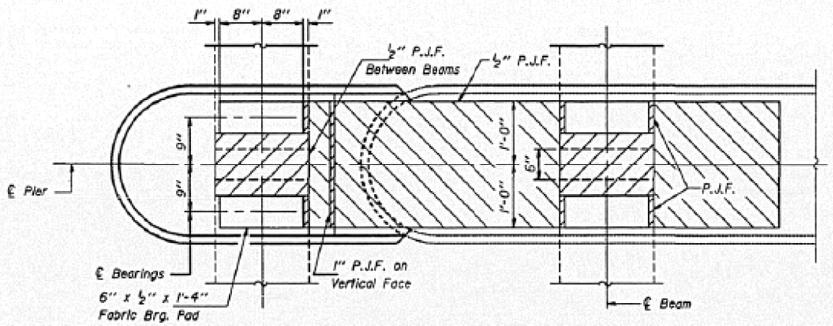
SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PINTLE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12



PARTIAL PLAN AT PIER 2
(Symmetrical about ℄ Roadway)

DESIGNED	Teshome Dibessa	March 6 1986
CHECKED	Mary Bloxdorf	EXAMINED
DRAWN	Paul Summer	PASSED
CHECKED	Mary Bloxdorf	APPROVED

BEARING DETAILS
NORTH ABUTMENT & PIERS
F.A.P. RT. 132 SEC. CX-1-BY
EDGAR COUNTY
STA. 1234+89.50

P.
332

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570839\DrawingData\Structures\D570839-str-023-0005.dgn	USER NAME = piersonbr	DESIGNED -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	DRAWN	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS–BUILT PLANS
FOR INFORMATION ONLY

SCALE: | SHEET 27 OF 29 SHEETS | STA. | TO STA.

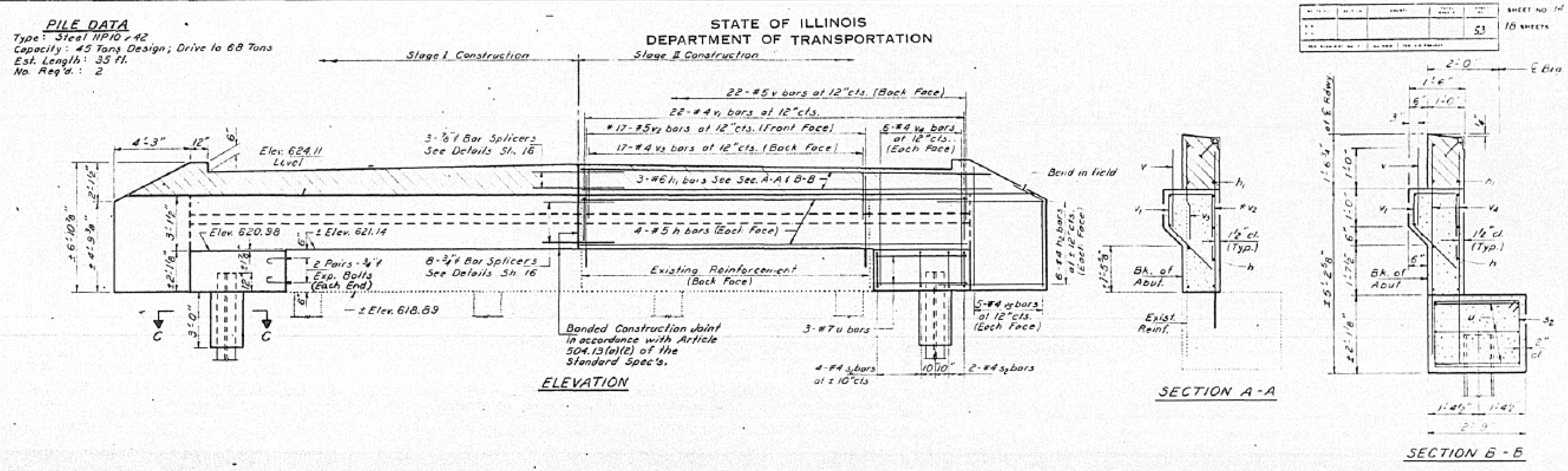
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	73
	•(CX-1)RS-3 & (C-X)RS-6)BDR	CONTRACT NO. 70839		
	ILLINOIS	FED. AID PROJECT		

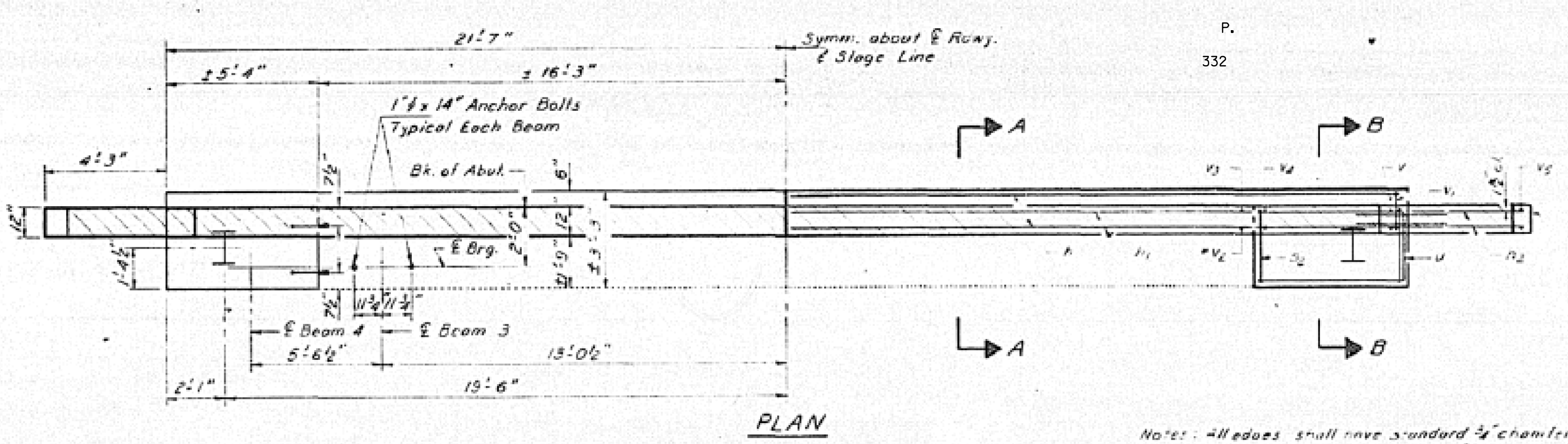
AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

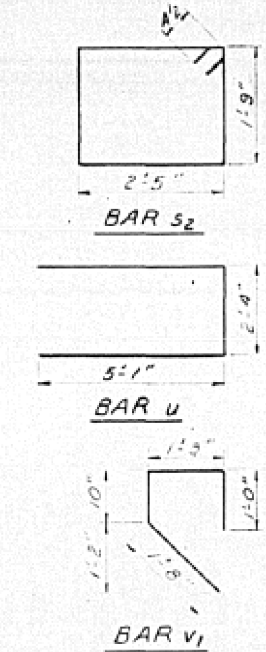
SHEET NO. 14
18 SHEETS

PILE DATA
Type: Steel HP10 x 42
Capacity: 45 Tons Design; Drive to 68 Tons
Est. Length: 35 ft.
No. Req'd.: 2





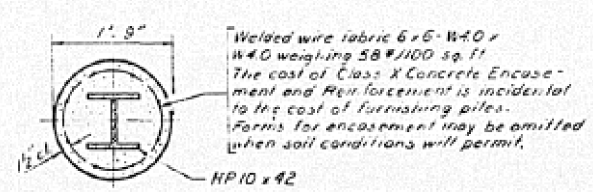
P.
332



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	16	#5	21'-3"	—
h1	6	#6	22'-7"	—
h2	24	#4	5'-9"	—
s2	12	#4	9'-1"	▭
u	6	#7	12'-6"	⊐
v	44	#5	2'-0"	—
v1	44	#4	4'-9"	▽
v2	34	#5	5'-0"	—
v3	34	#4	2'-6"	—
v4	24	#4	5'-9"	—
v5	20	#4	6'-6"	—
Class X Concrete			Cu. Yd.	9.7
Reinforcement Bars			Lbs.	1,520
Steel Piles HP10 x 42			Lin. Ft.	70
Concrete Removal			Cu. Yd.	5
3/4" ∅ Expansion Bolts			Each	6

Notes: All edges shall have standard 3/4" chamfers.
Hatched area to be poured after superstructure forms have been removed. Quantity of Class X Concrete is billed with Superstructure on Sheet 6.
The v2 bars to be epoxy grouted in 1⅛" x 12" drilled holes, see special provisions.
For concrete removal details see Sheet 2.



SECTION C-C
3'-0" Class X Concrete Encasement

DESIGNED	Tewelde Debesai
CHECKED	Mary Bloxdorf
DRAWN	Paul Summer
CHECKED	Mary Bloxdorf

March 6 1986
EXAMINED Iraj I. Kaspar — ENGINEER OF BRIDGE DESIGN
PASSED James T. Kaplan — ENGINEER OF BRIDGES AND STRUCTURES
APPROVED — DIRECTOR OF HIGHWAYS

SOUTH ABUTMENT
F.A.P. RT. 132 SEC. CX-1-BY
EDGAR COUNTY
STA. 1234+89.50

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D57... Data\Structures\D570839-str-023-00...dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

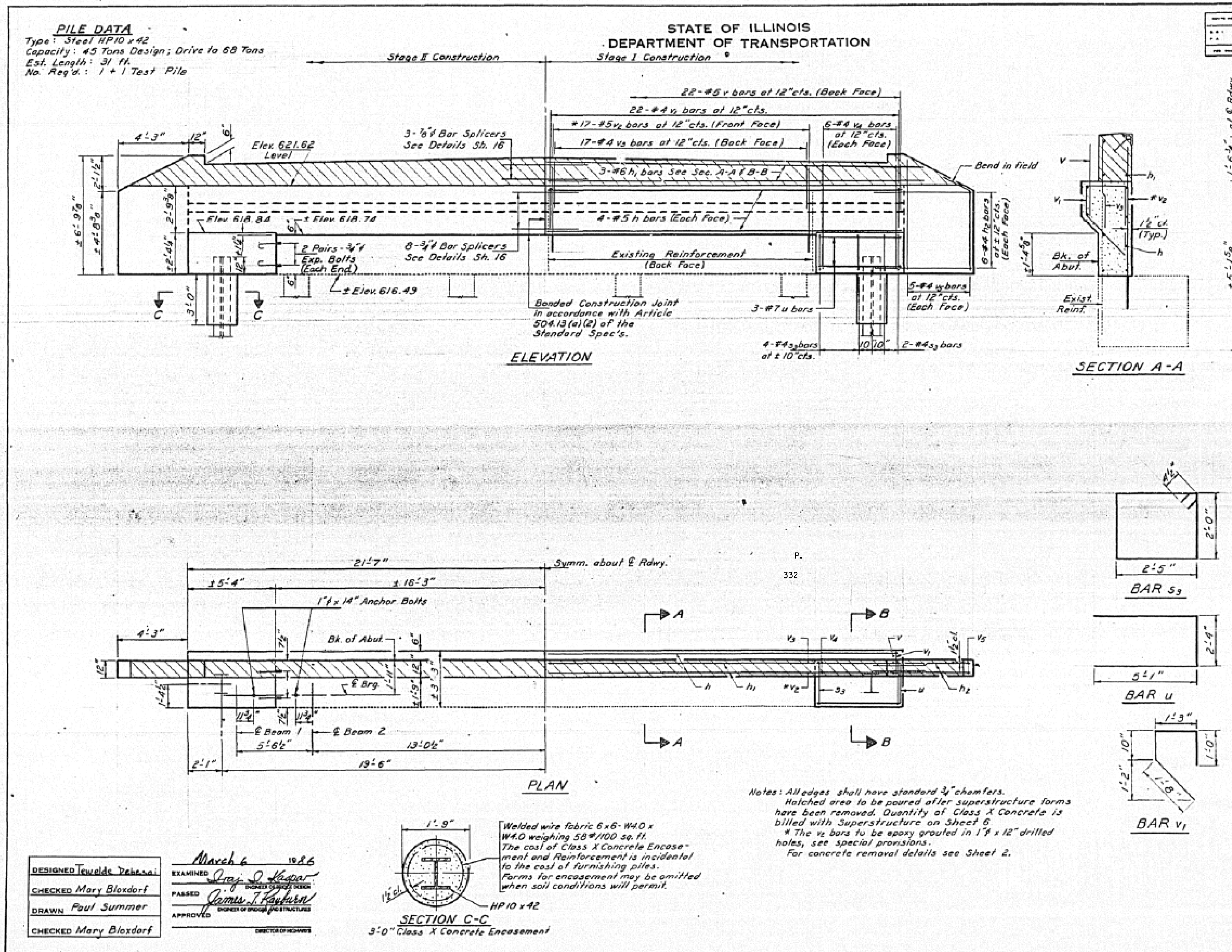
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS–BUILT PLANS
FOR INFORMATION ONLY

SCALE: SHEET 28 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	74
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

AS-BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023-0005



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	16	#5	21'-3"	—
h_1	6	#6	22'-7"	—
h_2	24	#4	5'-9"	—
s_3	12	#4	9'-7"	▭
u	6	#7	12'-6"	⊔
v	44	#5	2'-0"	—
v_1	44	#4	4'-9"	◻
v_2	34	#5	5'-0"	—
v_3	34	#4	2'-6"	—
v_4	24	#4	5'-9"	—
v_5	20	#4	6'-6"	—

Item	Unit	Quantity
Class X Concrete	Cu. Yd.	37
Reinforcement Bars	Lbs.	1,520
Steel Piles HP10x42	Lin. Ft.	31
Concrete Removal	Cu. Yd.	5
3/4"φ Expansion Bolts	Each	8
Test Piles Steel HP10x42	Each	1

Notes: All edges shall have standard 3/4" chamfers.
Hatched area to be poured after superstructure forms have been removed. Quantity of Class X Concrete is billed with Superstructure on Sheet 6.
* The v_2 bars to be epoxy grouted in 1"φ x 12" drilled holes, see special provisions.
For concrete removal details see Sheet 2.

NORTH ABUTMENT
F.A.P. RT. 132 SEC. CX-1-BY
EDGAR COUNTY
STA. 1234+89.50

DESIGNED Tewelde Debesai
CHECKED Mary Bloxdorf
DRAWN Paul Summer
CHECKED Mary Bloxdorf
March 6 1986
EXAMINED [signature]
PASSED James T. Rayburn, Engineer of Bridges and Structures
APPROVED

P.
332

FILE NAME =	USER NAME = piersonbr	DESIGNED -	REVISED -
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570839\CADData\Structures\D570839-str-023-0005.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

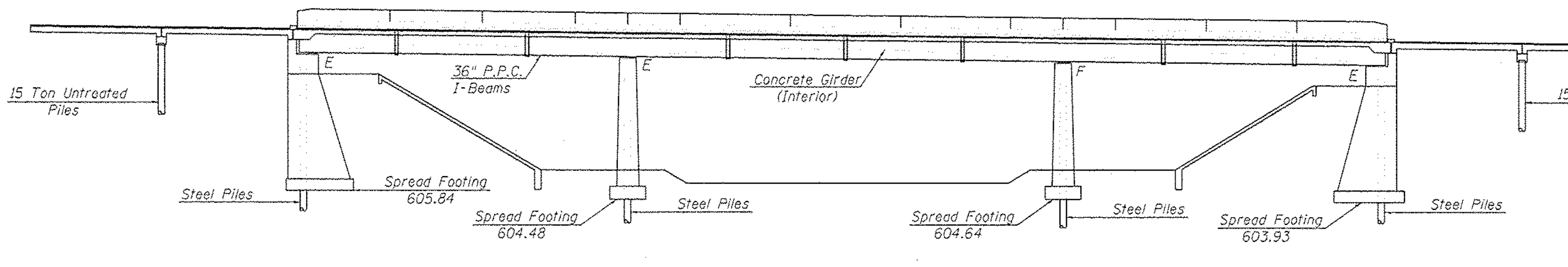
SCALE: SHEET 29 OF 29 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	75
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

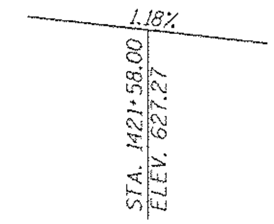
Structures 023-0004 was built in 1952 as SBI 1, Section BX-B at station 1421+58 by the state of Illinois in Edgar County. In 1986 the was reconstructured under section BX-BY. The exterior girders and parapets were removed and replaced with two Precast Prestressed Concrete I-Beams. The deck roadway width was increased. to 40'.

The existing structures is a three-span structures with back-to-back of abutment length of 169'-4½". The structures measure 40'-0" from face-to-face of parapets and has an out-to-out width of 43'-2". The structure was built on a 42°-00' right-forward skew. The superstructure consist of three interior Reinforced Concrete Girders with two Precast Prestressed Concrete I-Beams on both sides supporting a 7½" reinforced concrete deck and a 1¾" HMA wearing surface. The superstructure is supported by full height spill through abutments and 2 solid column piers. The slopes are protected with concrete slope walls.

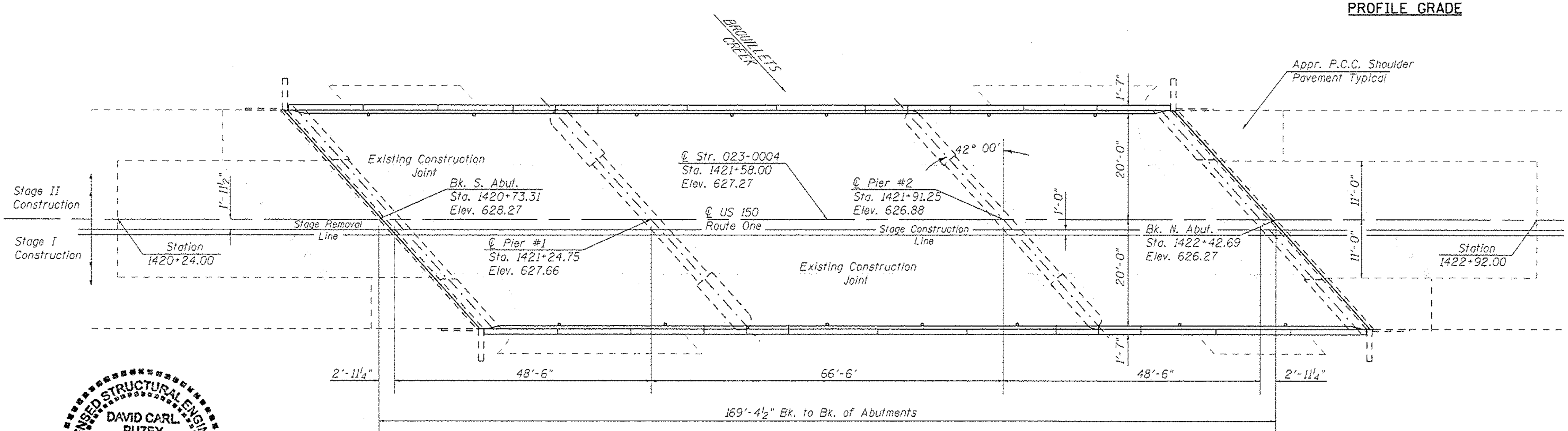
Method of Construction: STAGE CONSTRUCTION



ELEVATION VIEW
(Elevations from As-Built Plans for Perspective Only)



PROFILE GRADE



PLAN VIEW

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

D. Carl Puzey 4/27/15
Expires 11/30/16

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	PLOT SCALE = 40.0000 '/ in.	CHECKED - CCC	REVISED -
$MODELNAME$	PLOT DATE = 3/16/2015	DATE - 3/14/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PAN AND ELEVATION
S.N. 023-0004

SCALE: | SHEET 1 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	76
*(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

PROPOSED WORK

1. Remove Existing Waterproofing Membrane System and H.M.A. Wearing Surface from Bridge Deck.
2. Remove Existing H.M.A. Wearing Surface from Approach Slabs.
3. Partial Removal of Deck Ends, and Partial Removal of Approach Pavement.
4. Clean and Fill ½" Drain Holes - See Sheet 13 of 36.
5. Perform Partial-Depth and Full-Depth Patching.
6. Perform Beam End Repairs.
7. Replace Existing Bearings with Elastomeric Bearings at Abutments.
8. Place Reinforcement Bars, Pour Deck Ends and Approach Pavement.
9. Place Water Proofing Membrane System on Bridge Deck.
10. Place Hot-Mix Asphalt Surface Course, Mix "C", N50 on Bridge Deck and Approaches.
11. Remove Hot-Mix Asphalt Surface Course & Place Polymer Concrete Nosing.
12. Insert Backer Rod and Place Silicone Joint Sealer.

TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT OF MEASURE	QUANTITY
BITUMINOUS MATERIALS (PRIME COAT)	POUND	207.0
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	119.0
HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	458.0
CONCRETE REMOVAL	CU YD	15.4
CONCRETE SUPERSTRUCTURE	CU YD	15.4
PROTECTIVE COAT	SQ YD	45.0
REINFORCEMENT BARS, EPOXY COATED	POUND	1900.0
BAR SPLICERS	EACH	34.0
MECHANICAL SPLICERS	EACH	36.0
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	14.0
ANCHOR BOLTS, 1"	EACH	28.0
WATERPROOFING MEMBRANE SYSTEM	SQ YD	756.0
POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	17.0
PUMPABLE CONCRETE MIX	CU FT	1.8
JACK AND REMOVE EXISTING BEARINGS	EACH	14.0
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	747.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	26.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	8.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	12.0
DECK SLAB REPAIR (PARTIAL)	SQ YD	38.0
SILICONE JOINT SEALER, 1"	FOOT	122.0
POLYMER CONCRETE	CU FT	13.5

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Care shall be take to prevent damage to the bottom T-Girder Section. If the existing T-Girder stems are damaged during construction, the contractor will be responsible for repairing damage at his expense to the satisfaction of the engineer.

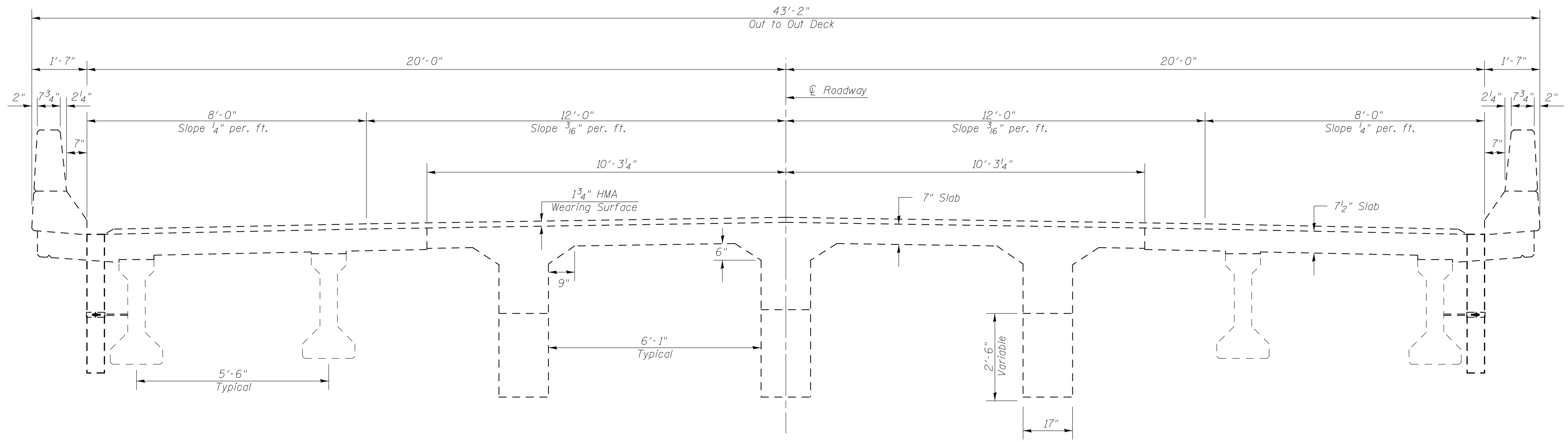
Care shall be take to prevent damage to the existing floor drains. It the existing floor drains are damaged during construction, the contractor will be responsible for providing and installing an approved replacement at no additional const to the Department.

The removal of the existing concrete at the compression block repair location shall be limited to all loose or delaminated concrete only. The contractor shall use extreme care during this removal process to prevent any damage to the existing pre-stressing strands. The contractor shall use a pumpable concrete mix for the repair. See special provision for Pumpable Concrete Mix for mix requirements. Cost for all work and materials shall be included in cost of Pumpable Concrete Mix.

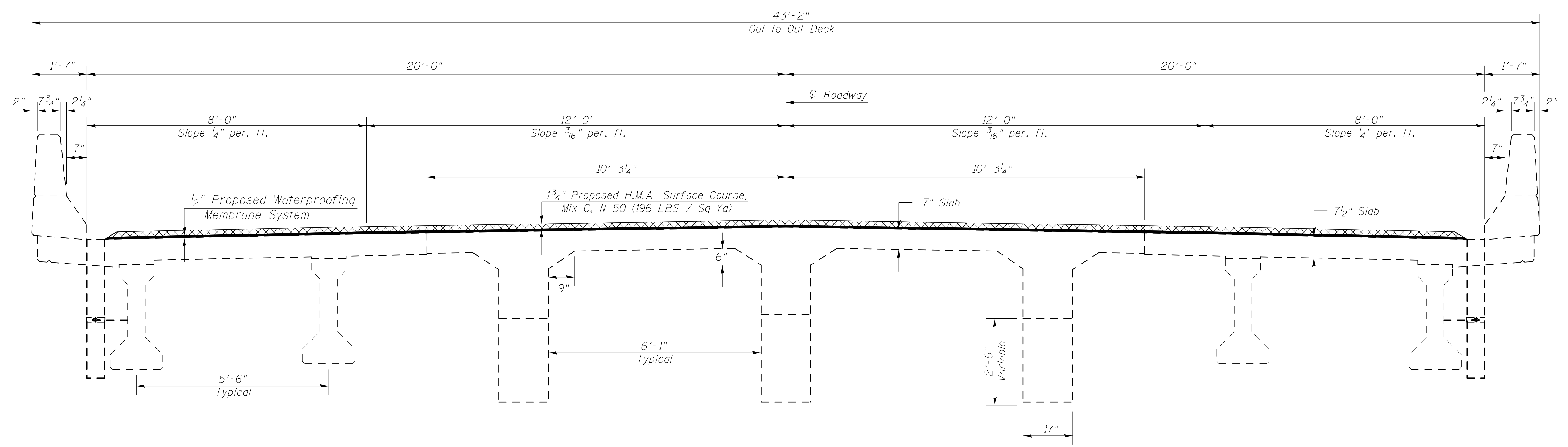
S.N. 023-0004 have been determined, through testing, not to involve Asbestos in a bituminous wearing surface or waterproofing membrane. As certified with BBS form 2536, January 3, 2003.

Contractor must place H.M.A. Surface Course prior to Constructing Polymer Concrete joints.

EXISTING DECK CROSS SECTION



PROPOSED DECK CROSS SECTION



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		DRAWN - ESS	REVISED -			TOTAL SHEETS 171	SHEET NO. 78	
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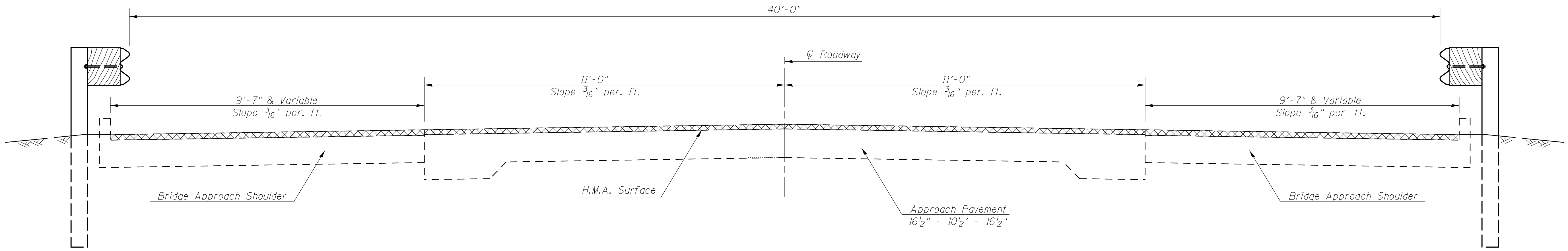
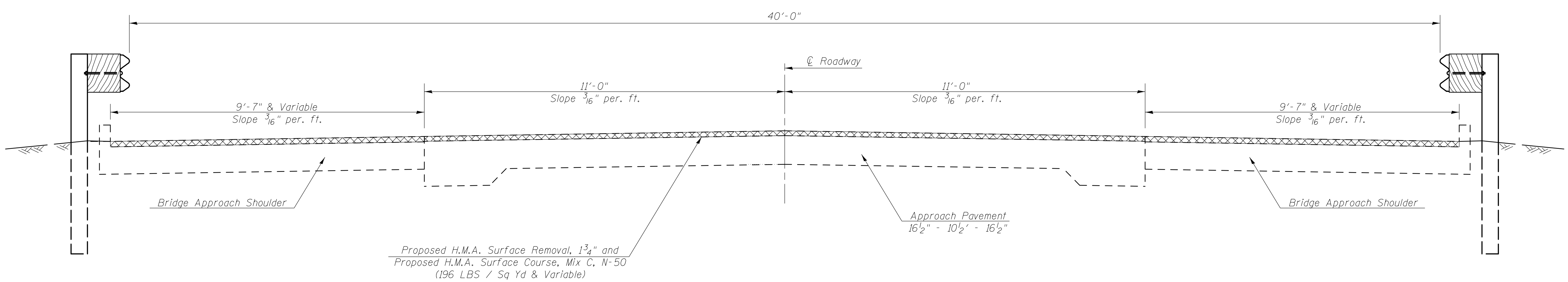
	PLOT DATE = 3/16/2015	DATE - 3/18/2014	REVISED -			ILLINOIS	FED. AID PROJECT	

EXISTING APPROACH CROSS SECTION



PROPOSED APPROACH CROSS SECTION



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PLOT DATE = 3/16/2015	DATE - 3/18/2014	REVISED -

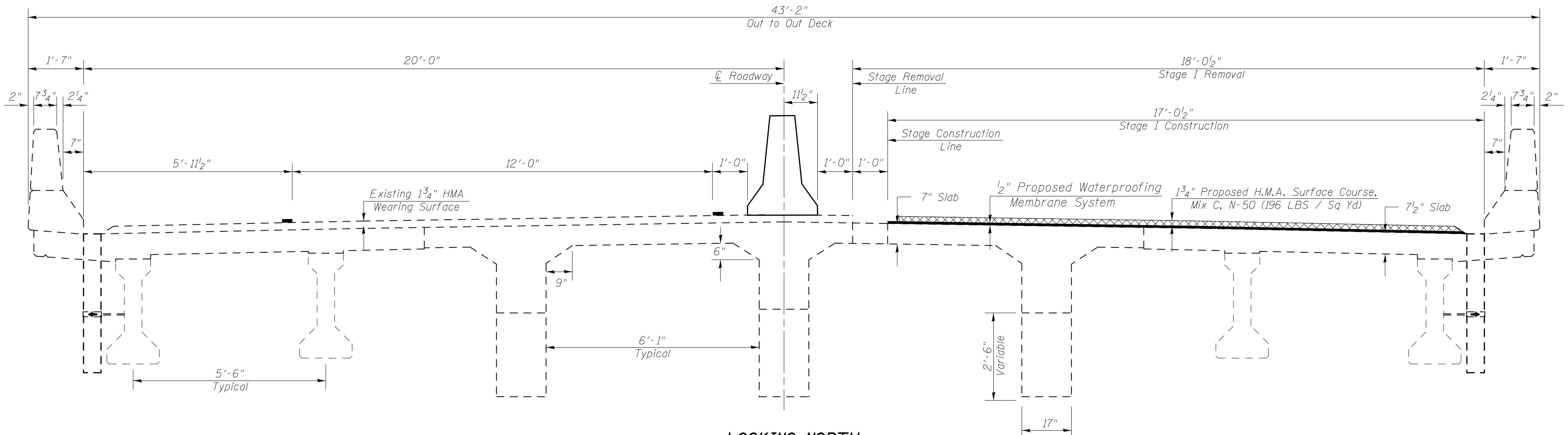
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPROACH CROSS SECTION
S.N. 023-0004

SCALE: | SHEET 4 OF 36 SHEETS | STA. | TO STA.

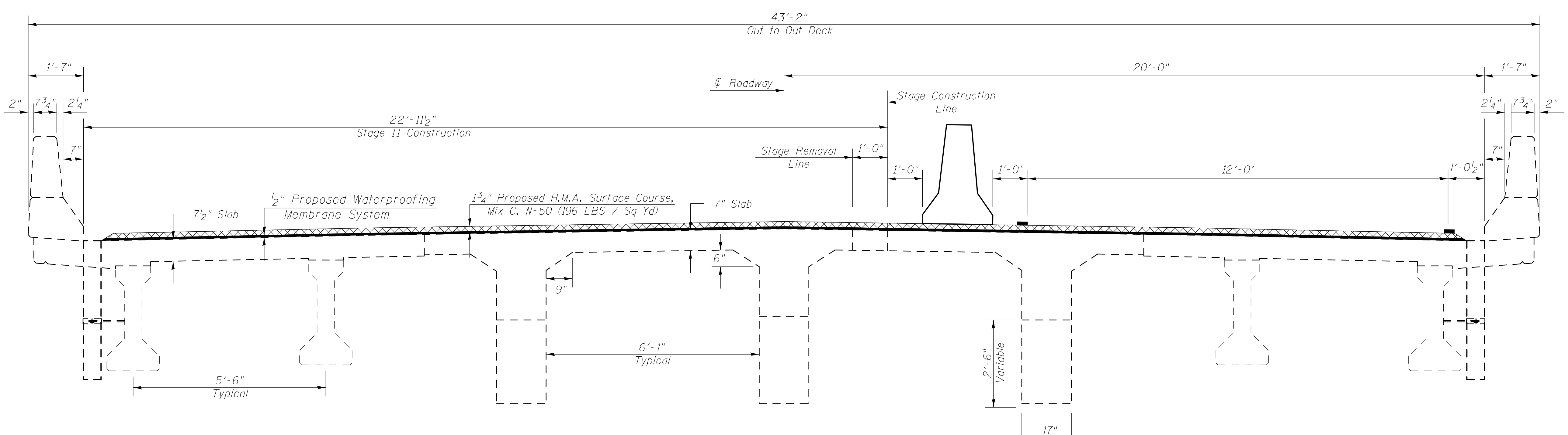
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	79
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS	FED. AID PROJECT		

STAGE I CONSTRUCTION DETAIL
S.N. 023–0004



LOOKING NORTH

STAGE II CONSTRUCTION DETAIL
S.N. 023–0004



LOOKING NORTH

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		DRAWN - ESS	REVISED -		
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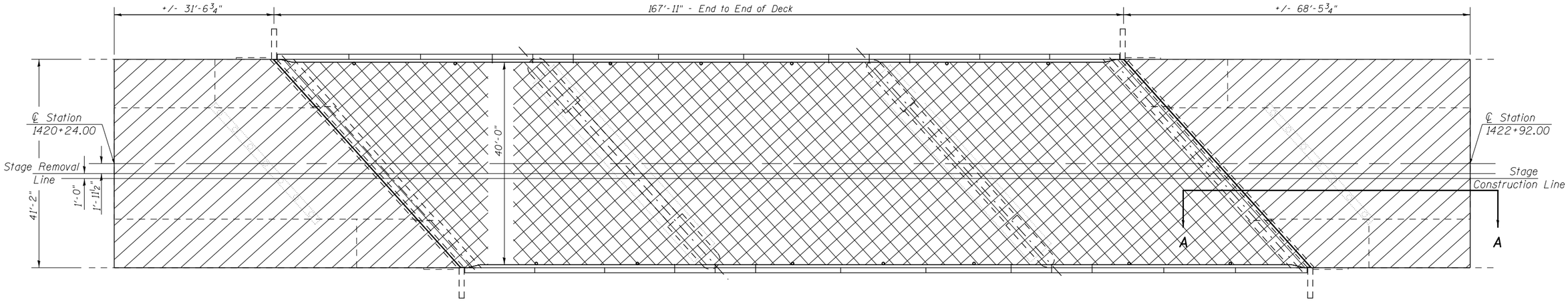
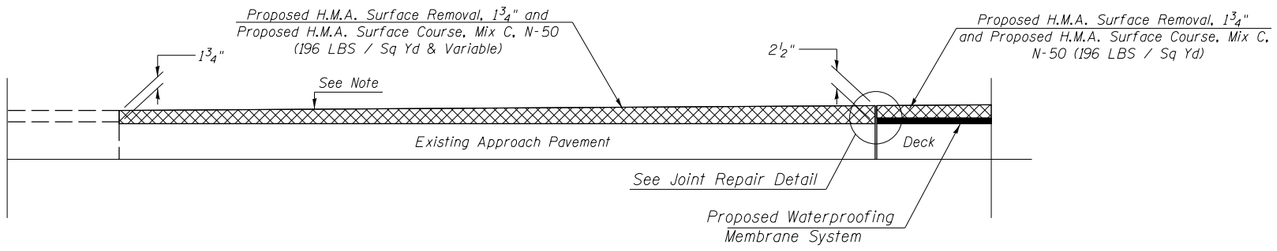
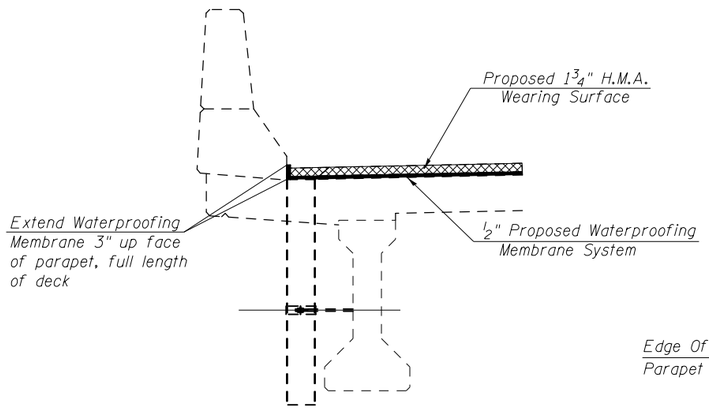
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	80
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

WEARING SURFACE & APPROACH OVERLAY PLAN
S.N.023–0004

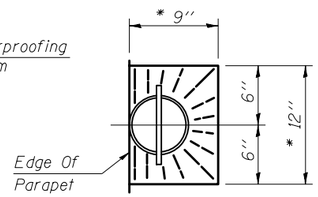




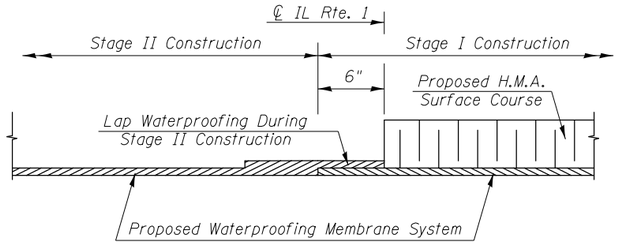
SECTION A-A
(Showing Resurfacing Transition Over Approach Pavements)



SECTION AT DRAIN



TOP PLAN
* SLOPE TO DRAIN



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION

LEGEND

H.M.A. Surface Removal (Deck) & Proposed 1 3/4" H.M.A. Wearing Surface & Water Proofing Membrane System

H.M.A. Surface Removal 1 3/4" & Proposed 1 3/4" H.M.A. Wearing Surface

NOTE:

TRANSITION AREA TO BE MILLED SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR H.M.A. SURFACE REMOVAL, 1 3/4" AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE VARIABLE THICKNESS.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
H.M.A. SURFACE REMOVAL (DECK)	SQ YD	747.0
H.M.A. SURFACE REMOVAL 1¾"	SQ YD	458.0
WATER PROOFING MEMBRANE SYSTEM	SQ YD	756.0
H.M.A. SURFACE COURSE, MIX C, N-50	TON	119.0
BITUMINOUS MATERIALS (PRIME COAT)	GAL	46.0

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	PLOT DATE = 3/16/2015	DATE - 3/18/2014	REVISED -

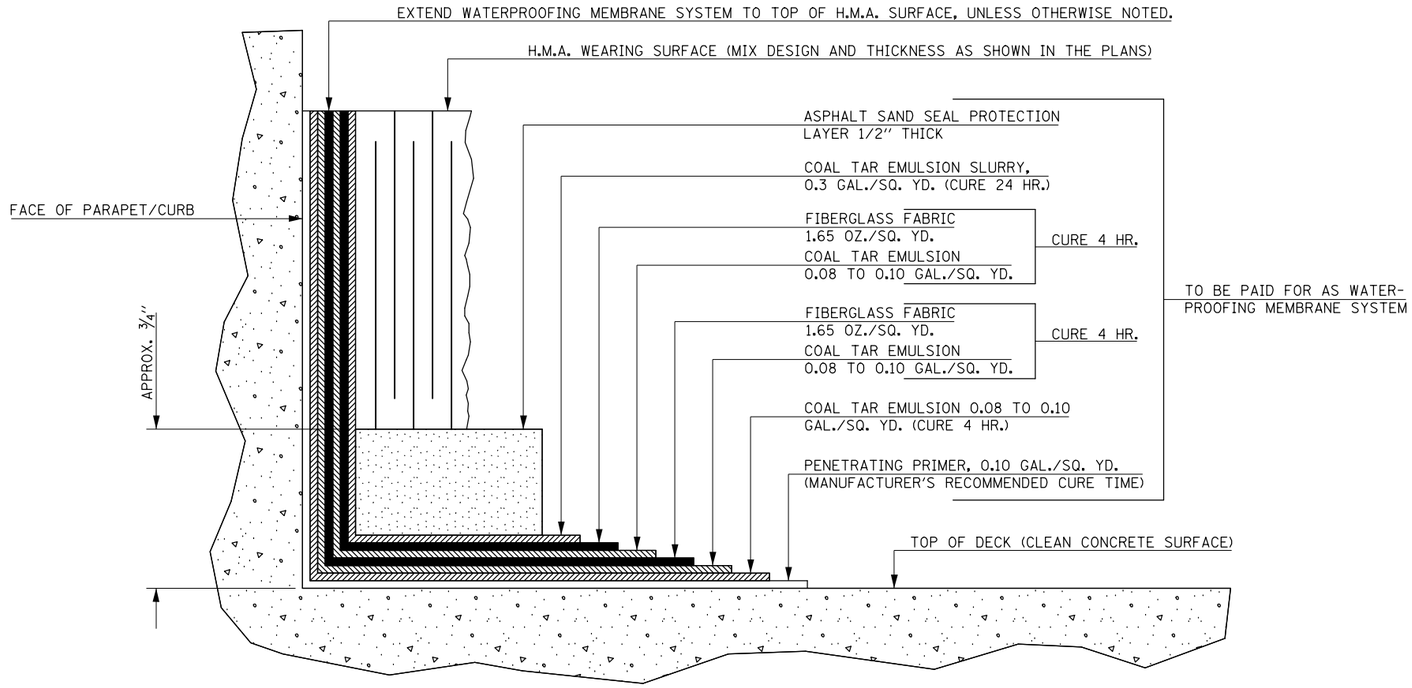
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEARING SURFACE & APPROACH OVERLAY DETAILS
S.N. 023–0004

SCALE: | SHEET 6 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	81
*E(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

WATERPROOFING MEMBRANE SYSTEM
S.N. 023–0004



NOTES

THIS DETAIL HAS BEEN INCLUDED TO ILLUSTRATE THE ASSOCIATED LAYERS AND CURE TIMES NECESSARY FOR THE PLACEMENT OF THE WATERPROOFING MEMBRANE SYSTEM. THIS DETAIL SHALL SUPPLEMENT, NOT SUPERSEDE, SECTION 581 OF THE STANDARD SPECIFICATIONS.

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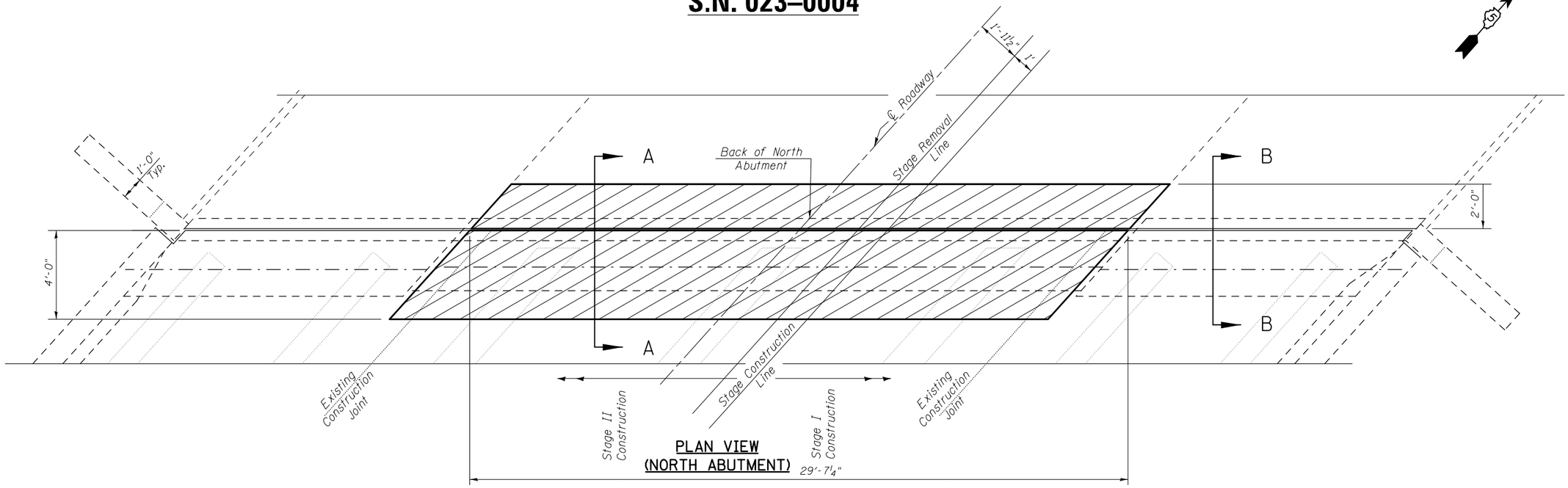
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATERPROOFING MEMBRANE SYSTEM
S.N. 023–0004

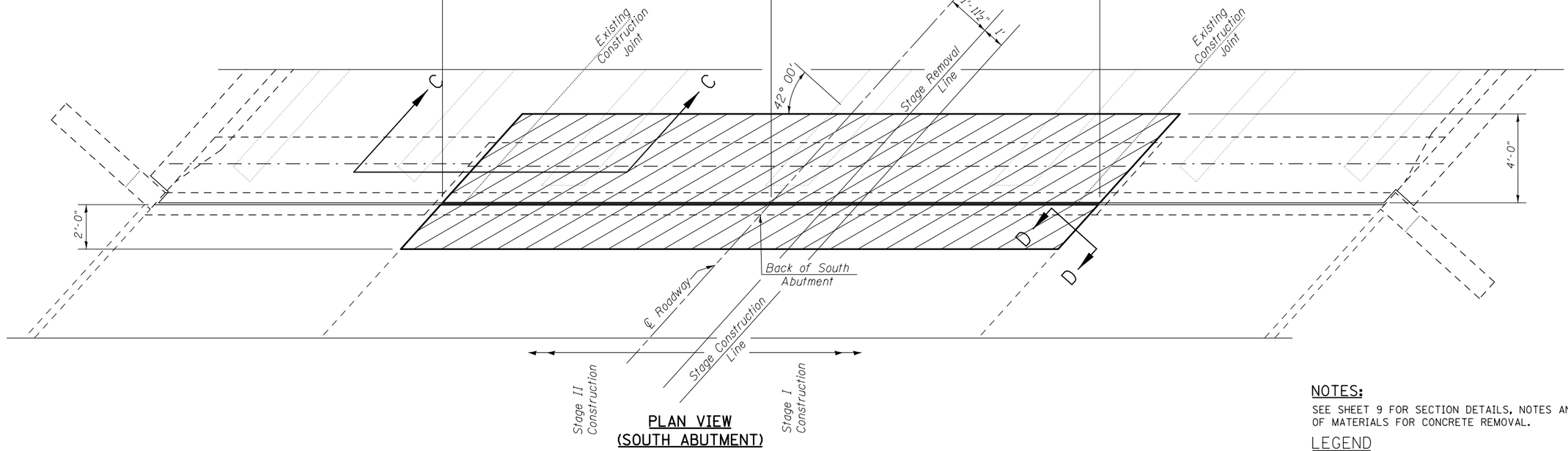
SCALE: | SHEET 7 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	82
*((CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
	ILLINOIS	FED. AID PROJECT		

CONCRETE REMOVAL PLAN
S.N. 023–0004



PLAN VIEW
(NORTH ABUTMENT)



PLAN VIEW
(SOUTH ABUTMENT)

NOTES:

SEE SHEET 9 FOR SECTION DETAILS, NOTES AND BILL OF MATERIALS FOR CONCRETE REMOVAL.

LEGEND

CONCRETE REMOVAL

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	PLOT DATE = 3/16/2015	DATE - 3/25/2014	REVISED -

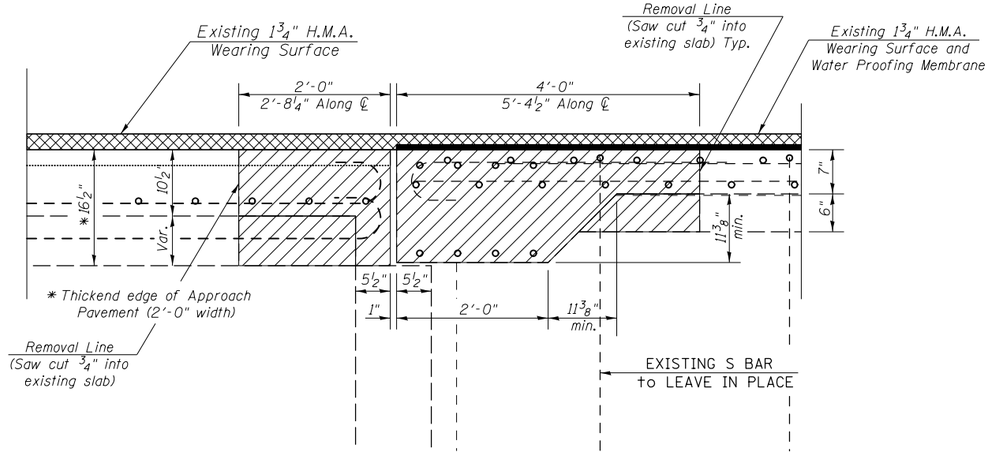
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN – CONCRETE REMOVAL
S.N. 023–0004

SCALE: | SHEET 8 OF 36 SHEETS | STA. | TO STA.

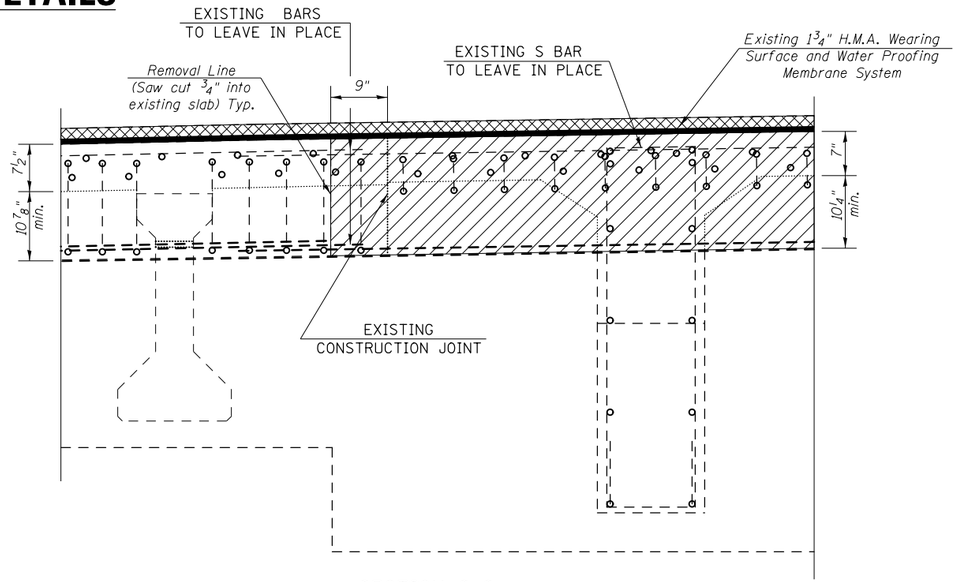
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	83
*(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
	ILLINOIS	FED. AID PROJECT		

CONCRETE REMOVAL DETAILS
S.N. 023–0004



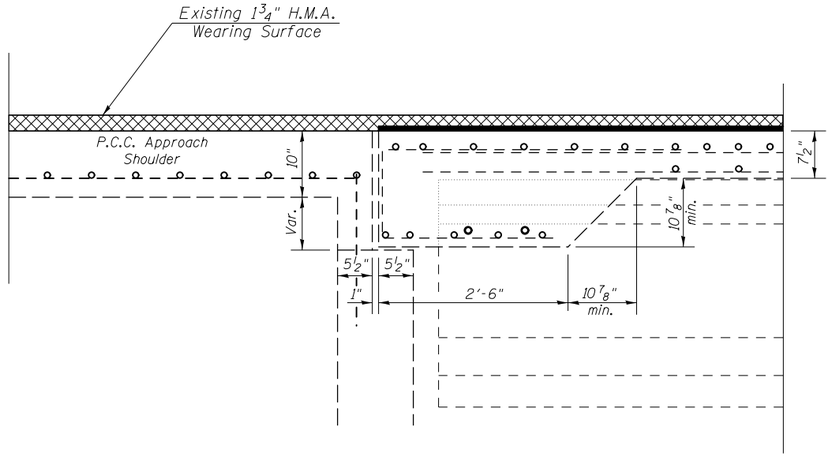
SECTION A-A

SHOWING CONCRETE REMOVAL LIMITS
AT ABUTMENT / DECK END
(at Rt. L's)



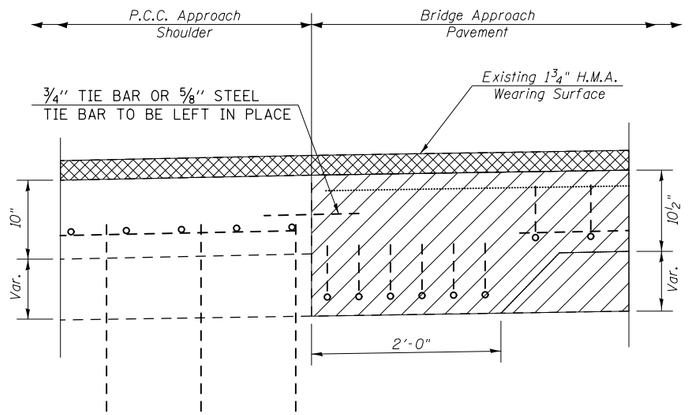
SECTION C-C

DECK CONCRETE REMOVAL LIMITS AT
CONSTRUCTION JOINT & CONCRETE
GIRDER



SECTION B-B

SHOWING LIMITS AT
ABUTMENT / DECK END
(at Rt. L's)



SECTION D-D

BRIDGE APPROACH PAVEMENT
CONCRETE REMOVAL LIMITS

NOTES:

CARE SHALL BE TAKEN TO PREVENT DAMAGE TO THE BOTTOM T-GIRDER SECTION. IF THE EXISTING T-GIRDER STEMS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING DAMAGE AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

THE EXISTING EXPANSION JOINT SYSTEMS SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. THE COST FOR THIS WORK IS INCLUDED IN CONCRETE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

Concrete Removal

BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	15.4

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$MODELNAME$	PLOT DATE = 3/16/2015	DATE - 3/26/2014	REVISED -

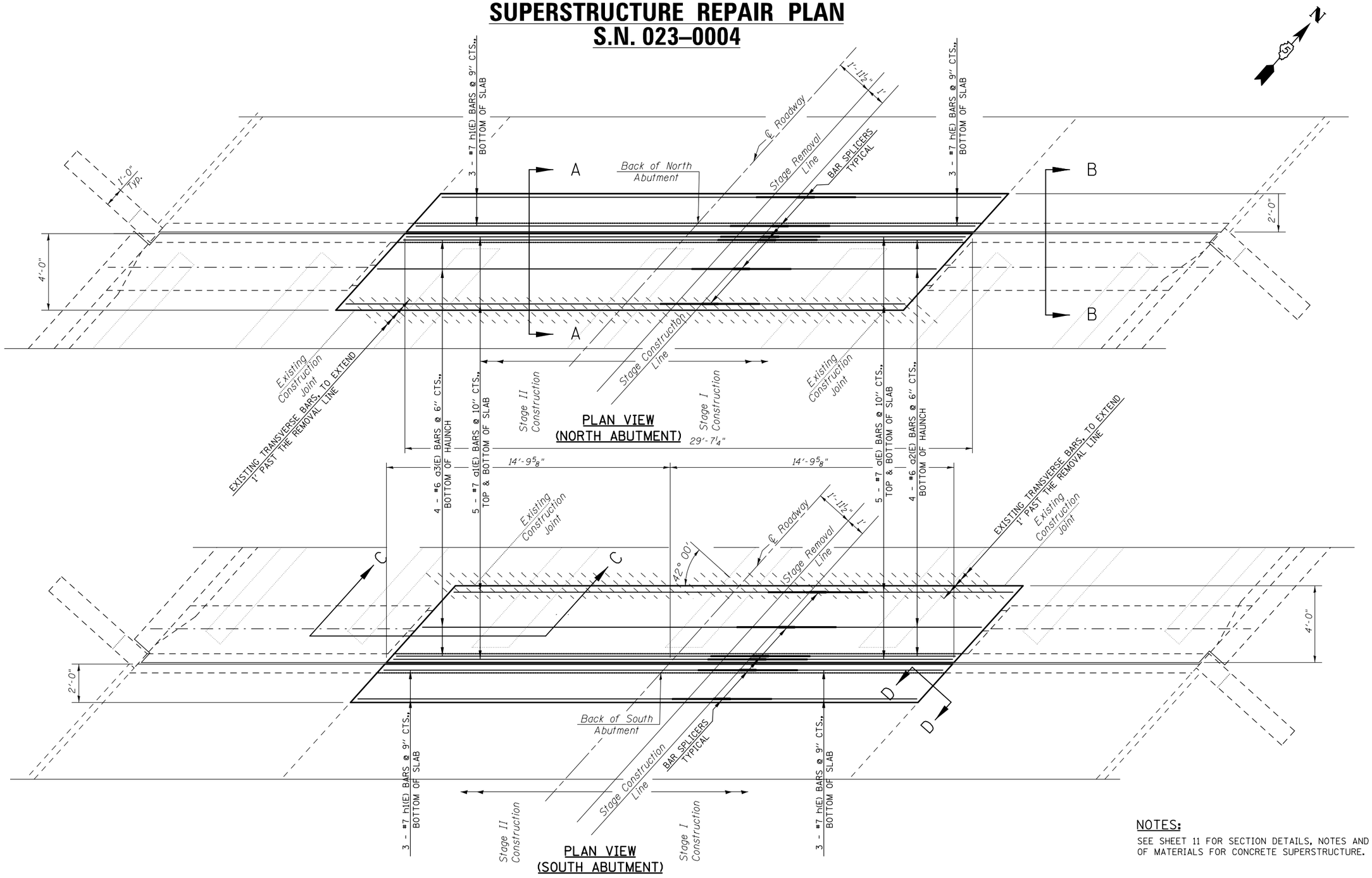
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL DETAIL
S.N. 023–0004

SCALE: | SHEET 9 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	84
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

SUPERSTRUCTURE REPAIR PLAN
S.N. 023–0004



NOTES:

SEE SHEET 11 FOR SECTION DETAILS, NOTES AND BILL OF MATERIALS FOR CONCRETE SUPERSTRUCTURE.

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$MODELNAME$	PLOT DATE = 3/16/2015	DATE -	REVISED -

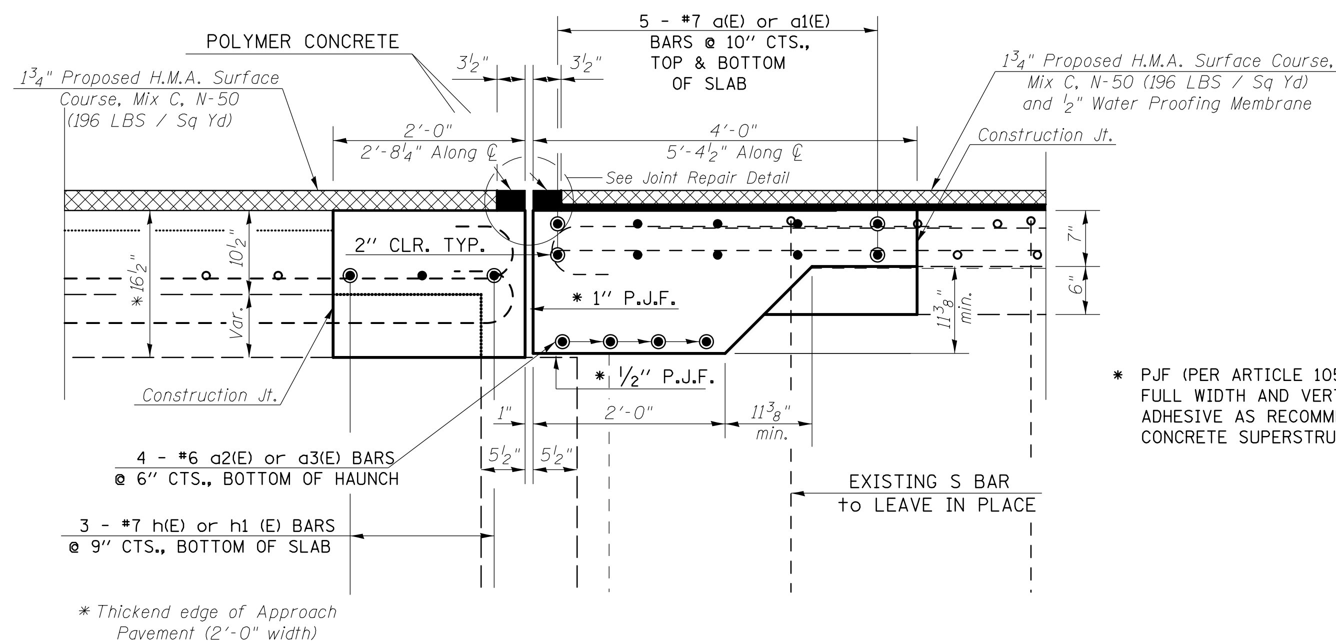
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE REPAIR PLAN
S.N. 023–0004

SCALE: | SHEET 10 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	85
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

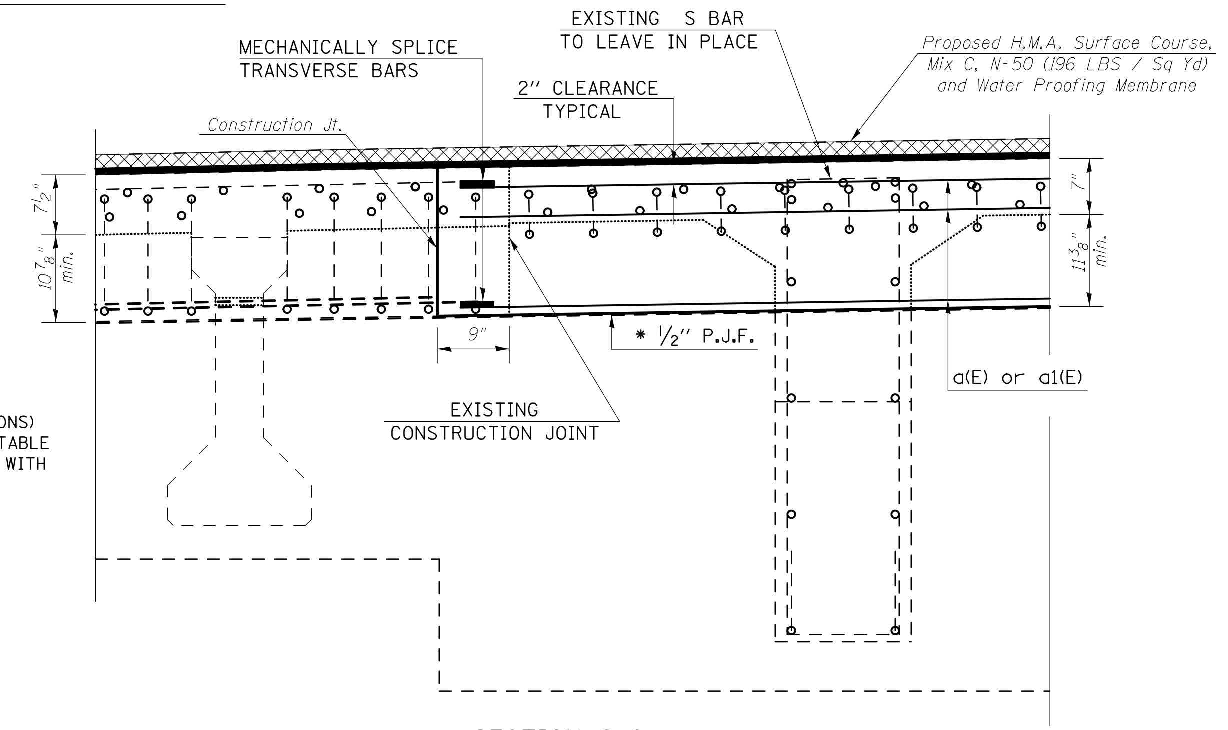
SUPERSTRUCTURE REPAIR DETAILS
S.N. 023–0004



SECTION A-A

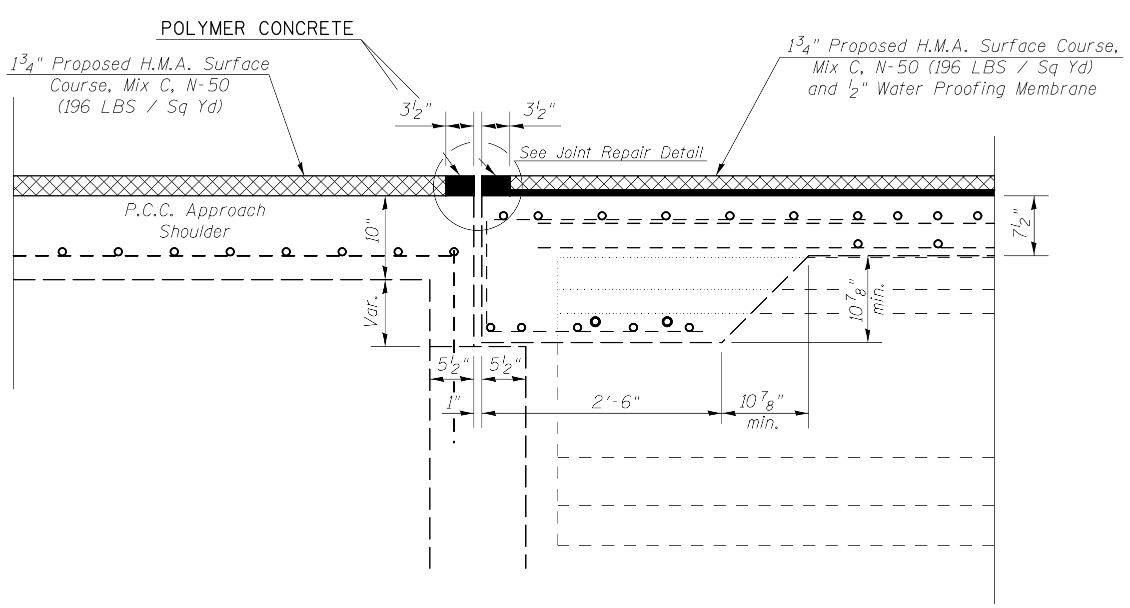
SHOWING CONCRETE REMOVAL LIMITS
AT ABUTMENT / DECK END
(at Rt. L's)

* PJF (PER ARTICLE 1051.09 OF THE STANDARD SPECIFICATIONS) FULL WIDTH AND VERTICALLY AT EDGES BONDED WITH SUITABLE ADHESIVE AS RECOMMENDED BY SUPPLIER. COST INCLUDED WITH CONCRETE SUPERSTRUCTURE. (ESTIMATED 115 SQ FT)



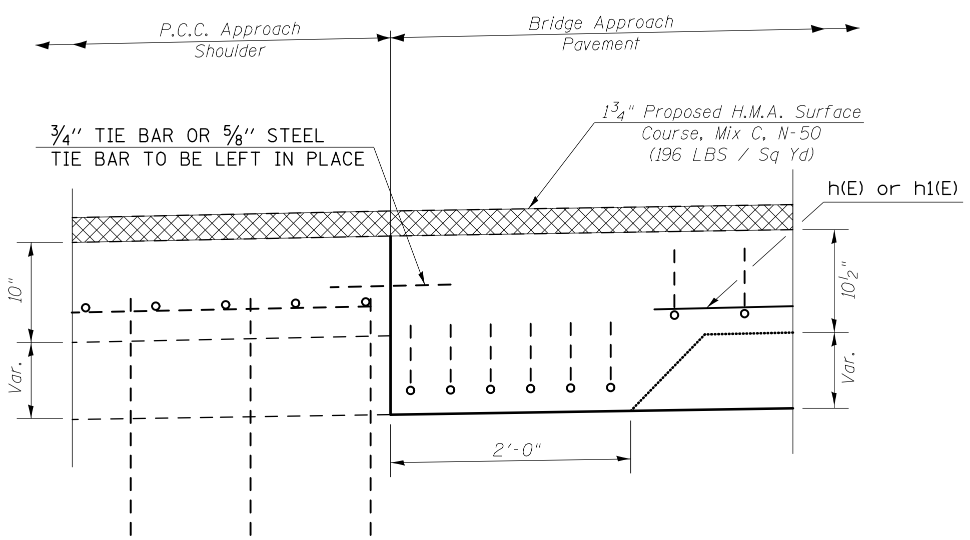
SECTION C-C

DECK CONCRETE REMOVAL LIMITS AT
CONSTRUCTION JOINT & CONCRETE GIRDER
(at Rt. L's)



SECTION B-B

SHOWING LIMITS AT
ABUTMENT / DECK END
(at Rt. L's)



SECTION D-D

BRIDGE APPROACH PAVEMENT
CONCRETE REMOVAL LIMITS
(at Rt. L's)

NOTES:

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	20	#7	10'-7"	——
a_1(E)	20	#7	18'-7"	——
a_2(E)	8	#6	10'-7"	——
a_3(E)	8	#6	18'-7"	——
h(E)	6	#7	10'-7"	——
h_1(E)	6	#7	18'-7"	——

REINFORCEMENT BARS (EPOXY COATED)	POUND	1900.0
CONCRETE SUPERSTRUCTURE	CU YD	15.4
BAR SPLICERS	EACH	34.0
MECHANICAL SPLICERS	EACH	36.0
PROTECTIVE COAT	SQ YD	40.0

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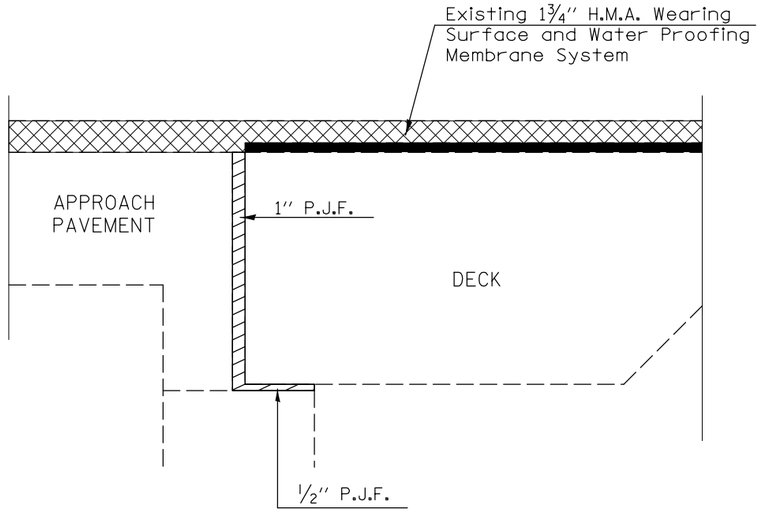
	PLOT DATE = 3/16/2015	CHECKED - EDG	REVISED -	
		DATE - 3/26/2014	REVISED -	

SUPERSTRUCTURE REPAIR DETAILS
S.N. 023–0004

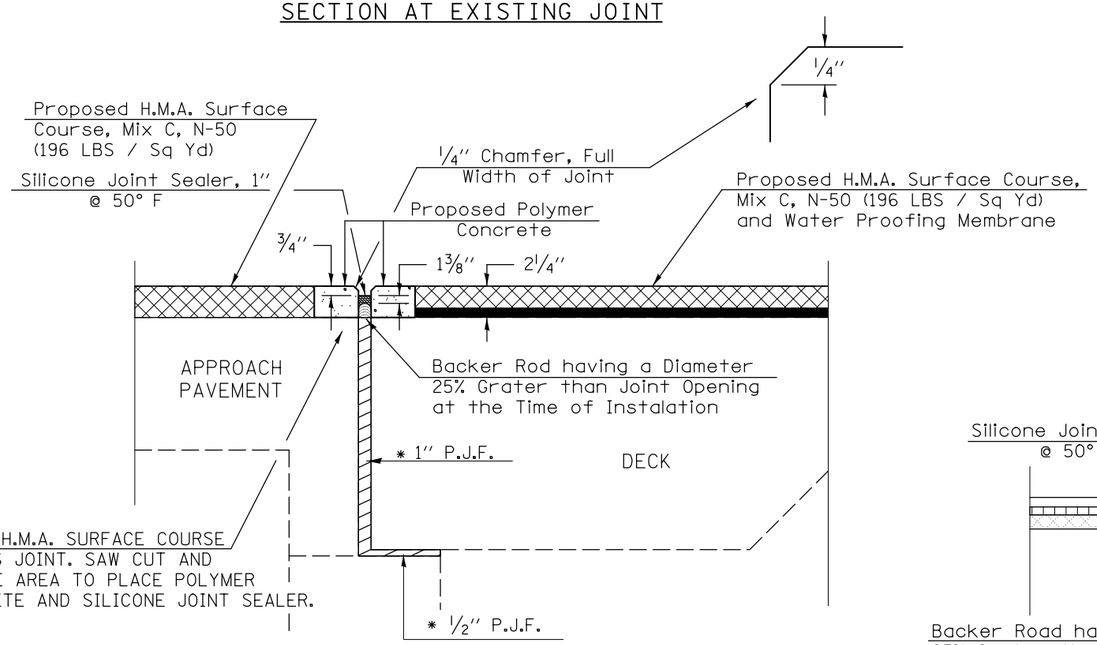
SCALE: | SHEET 11 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	86
*[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

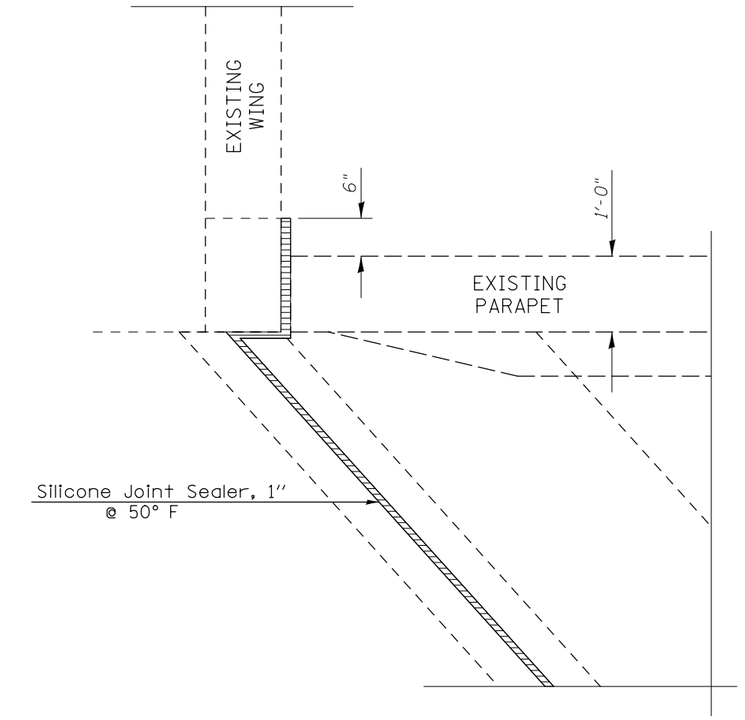
JOINT REPAIR DETAILS
S.N. 023–0004



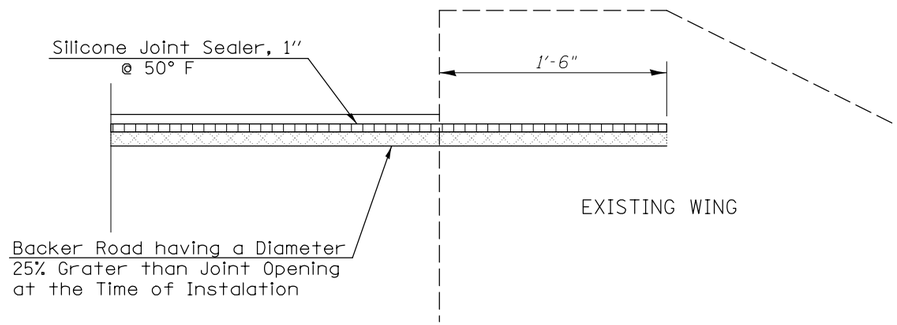
SECTION AT EXISTING JOINT



SECTION AT PROPOSED JOINT



PLAN AT WING



ELEVATION AT WING

* PJF (PER ARTICLE 1051.09 OF THE STANDARD SPECIFICATIONS) FULL WIDTH AND VERTICALLY AT EDGES BONDED WITH SUITABLE ADHESIVE AS RECOMMENDED BY SUPPLIER. COST INCLUDED WITH CONCRETE SUPERSTRUCTURE. (ESTIMATED 115 SQ FT)

BILL OF MATERIALS

ITEM	UNIT	TOTAL
SILICONE JOINT SEALER, 1"	FOOT	122.0
POLYMER CONCRETE	CU FT	13.5

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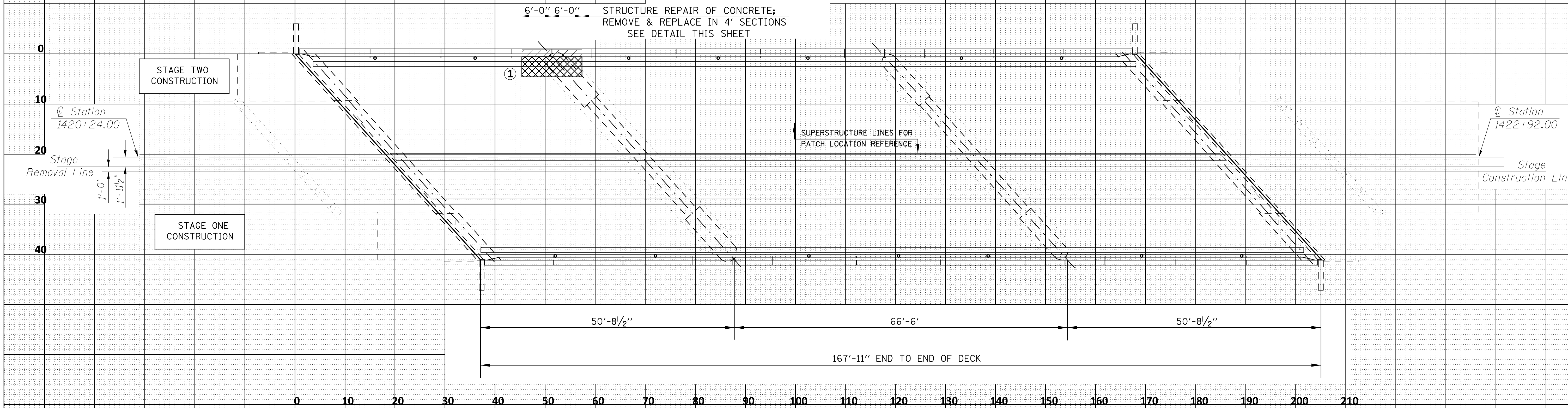
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPAIR DETAIL
S.N. 023–0004

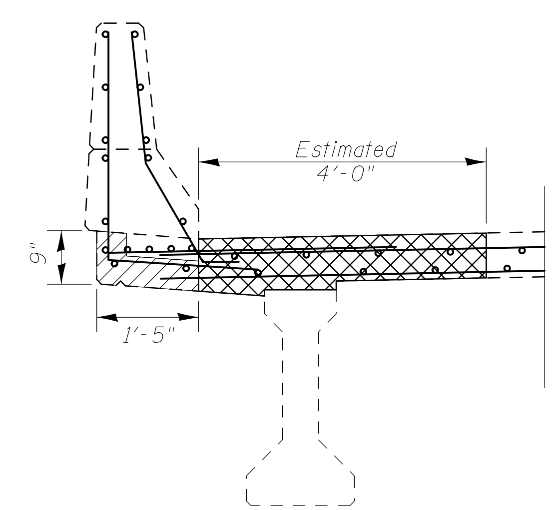
SCALE: | SHEET 12 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	87
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

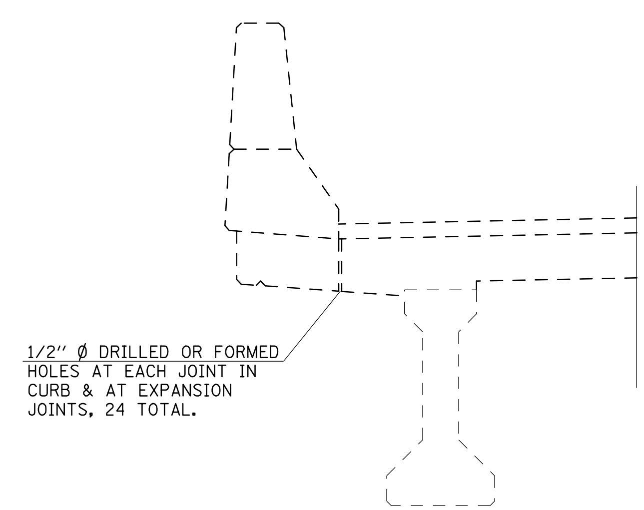
BRIDGE DECK PATCHING
S.N. 023–0004



PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)	DECK SLAB REPAIR (FD TY 1)	DECK SLAB REPAIR (FD TY 2)	
		SQ FT	SQ FT	SQ FT	
1	12.00 * 4.00			48.0	



DETAIL OF STRUCTURE REPAIR
OF CONCRETE & FULL DEPTH PATCH



DETAIL OF DRAIN HOLES
AT CURB JOINTS

(TO BE PLUGGED) - SEE NOTES , THIS SHEET

NOTES:

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AFTER THE EXISTING H.M.A. WEARING SURFACE AND WATERPROOFING MEMBRANE ARE REMOVED. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON THIS SHEET.

CARE SHALL BE TAKEN TO PREVENT DAMAGE TO THE EXISTING FLOOR DRAINS. IF THE EXISTING FLOOR DRAINS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING AN APPROVED REPLACEMENT AT NO ADDITIONAL COST TO THE DEPARTMENT.

ALL (QTY. 24) ½" Ø DRAIN HOLES AT CURB JOINTS SHALL BE CLEANED AND FILLED WITH A TWO COMPONENT NON-STAINING GRAY SEALING COMPOUND WITH POLYSULFIDE LIQUID POLYMERS - GUN GRADE WITH PRIMER. COST TO BE INCLUDED WITH DECK SLAB REPAIR.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ YD	38.0
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	8.0
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	12.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH LESS THAN OR EQUAL TO 5")	SQ FT	26.0
PROTECTIVE COAT	SQ YD	3.0

LEGEND

DECK SLAB REPAIR (FULL-DEPTH)

STRUCTURE REPAIP OF CONCRETE < 5"

BRIDGE DECK PATCHING
EDGAR COUNTY
FAP 332 (IL 1)
BROUILLETS CREEK

S.N. 023-0004

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	PLOT DATE = 3/16/2015	DATE - 4/14/2014	REVISED -

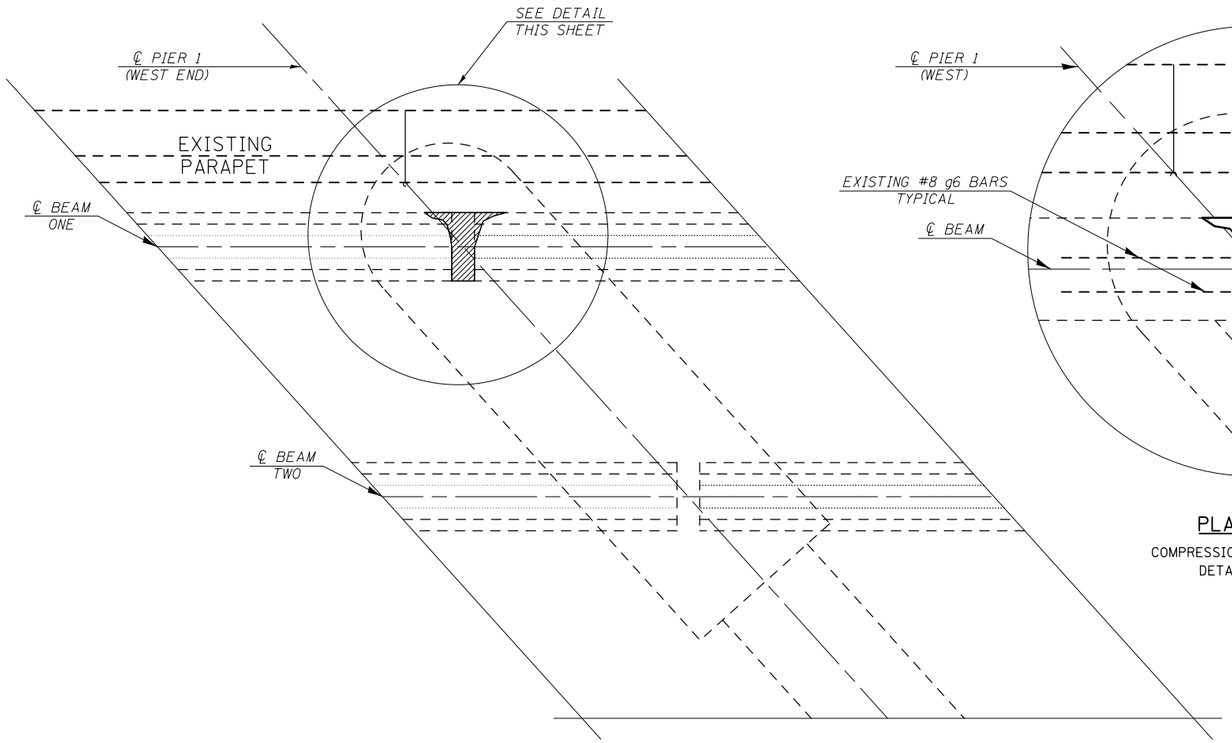
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK PATCHING
S.N. 023–0004

SCALE: | SHEET NO. 13 OF 36 SHEETS | STA. | TO STA.

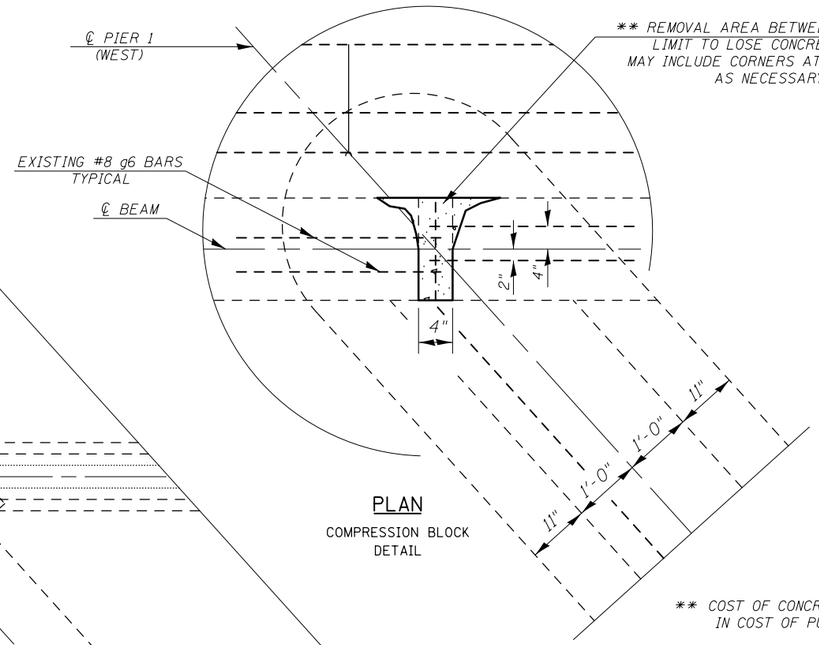
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	88
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COMPRESSION BLOCK REPAIRS
S.N. 023–0004



PLAN AT PIER 1

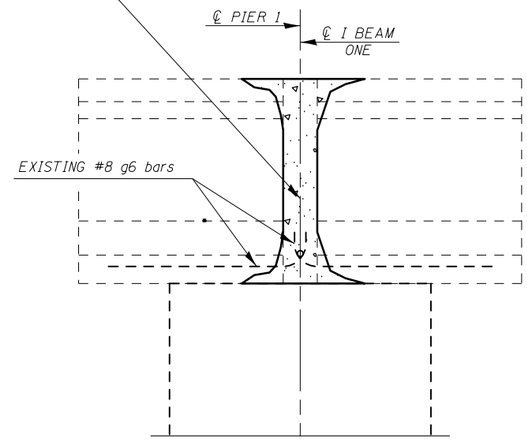
SHOWING REPAIR LOCATION
PIER STATION 1421+24.75



PLAN

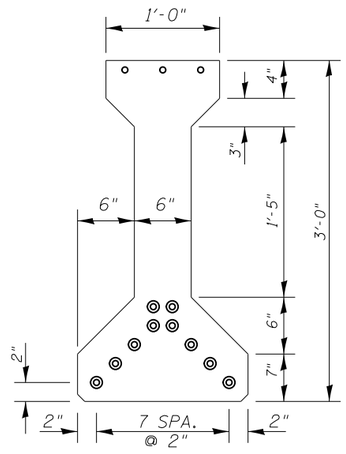
COMPRESSION BLOCK
DETAIL

** COST OF CONCRETE REMOVAL INCLUDED
IN COST OF PUMPABLE CONCRETE MIX

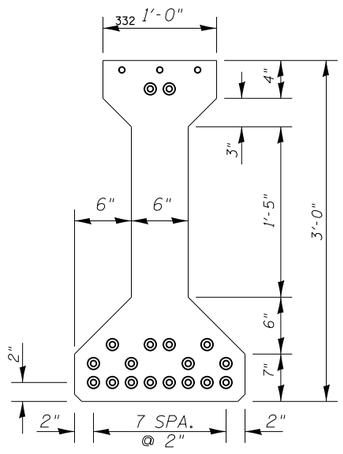


ELEVATION

COMPRESSION BLOCK
DETAIL



SECTION OF P.P.C. I BEAM
BEAMS SPANS ONE & THREE



SECTION OF P.P.C. I BEAM
BEAMS SPAN TWO

NOTES:

THE REMOVAL OF THE EXISTING CONCRETE AT THE COMPRESSION BLOCK REPAIR LOCATIONS SHALL BE LIMITED TO ALL LOOSE OR DELAMINATED CONCRETE ONLY. THE CONTRACTOR SHALL USE EXTREME CARE DURING THIS REMOVAL PROCESS TO PREVENT ANY DAMAGE TO THE EXISTING PRE-STRESSING STRANDS.

THE CONTRACTOR SHALL USE A PUMPABLE CONCRETE MIX FOR THE REPAIR. SEE SPECIAL PROVISION FOR PUMPABLE CONCRETE MIX FOR MIX REQUIREMENTS. COSTS FOR ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE REPAIRS AS SHOWN ON THIS SHEET SHALL BE INCLUDED IN COST OF PUMPABLE CONCRETE MIX.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
PUMPABLE CONCRETE MIX	CU FT	1.8

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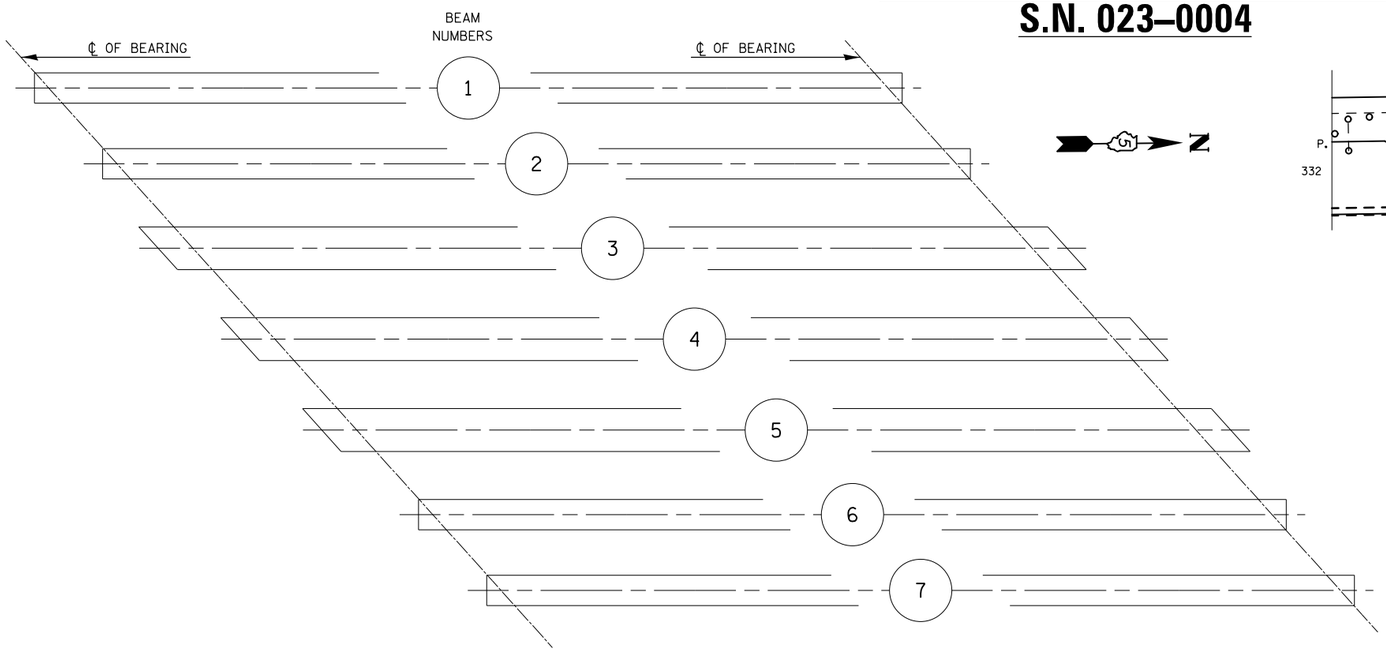
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMPRESSION BLOCK REPAIRS
S.N. 023–0004

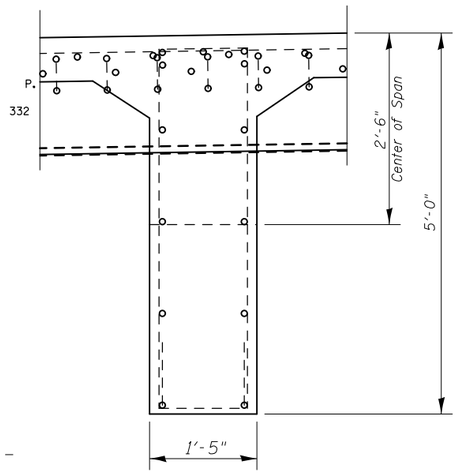
SCALE: | SHEET 14 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	89
	•[(CX-1)RS-3 & (C-X)RS-6]BDR	CONTRACT NO. 70839		
	ILLINOIS FED. AID PROJECT			

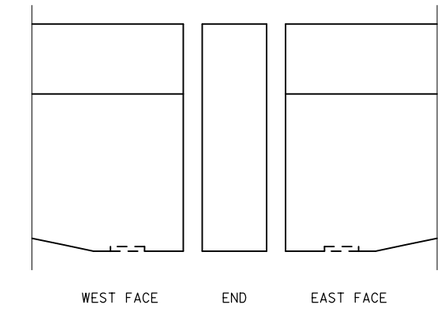
BEAM END REPAIR DETAILS
S.N. 023–0004



PARTIAL FRAMING PLAN

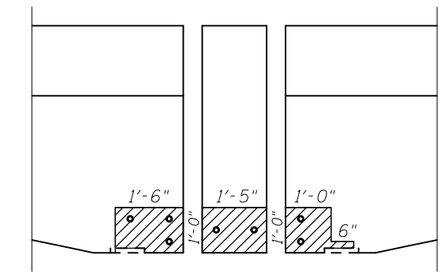


TYPICAL CROSS SECTION



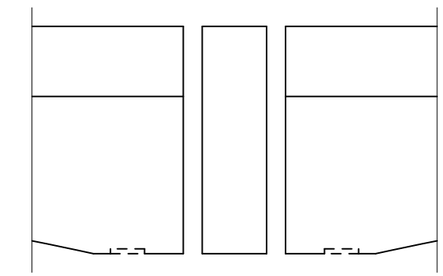
BEAM 3 - N. ABUT.

171 EDGAR EDGAR 171



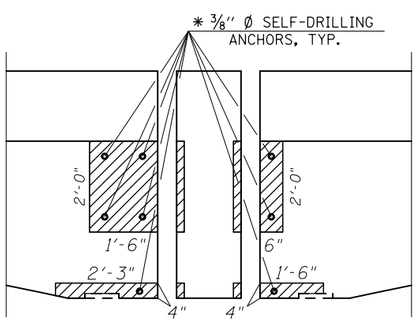
BEAM 4 - N. ABUT.

171 EDGAR EDGAR 171



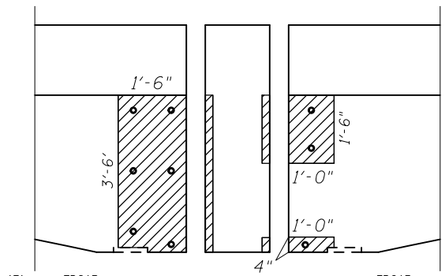
BEAM 5 - N. ABUT.

171 EDGAR EDGAR 171



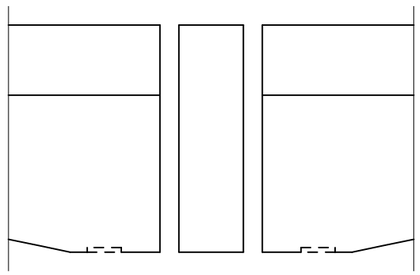
171 EDGAR EDGAR 171

BEAM 3 - S. ABUT.



171 EDGAR EDGAR 171

BEAM 4 - S. ABUT.



171 EDGAR EDGAR 171

BEAM 5 - S. ABUT.

* 3/8" Ø SELF-DRILLING ANCHORS, AS DEAMED NEEDED BY THE ENGINEER AT ALL POLYMER MODIFIED PORTLAND CEMENT MORTAR LOCATIONS

NOTES:

THE REPAIR DIMENSIONS AND ESTIMATED QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. THIS INFORMATION IS BASED ON AN INSPECTION FROM APRIL OF 2014. ACTUAL QUANTITIES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. SEE SPECIAL PROVISION FOR POLYMER MODIFIED PORTLAND CEMENT MORTAR. COSTS FOR ALL WORK MATERIALS NECESSARY TO COMPLETE REPAIRS WILL BE PAID FOR AS POLYMER MODIFIED PORTLAND CEMENT MORTAR.

THE REMOVAL OF THE EXISTING CONCRETE AT THE T-GIRDER REPAIR LOCATIONS SHALL BE LIMITED TO ALL LOOSE OR DELAMINATED CONCRETE ONLY. THE CONTRACTOR SHALL USE EXTREME CARE DURING THIS REMOVAL PROCESS TO PREVENT ANY DAMAGE TO THE EXISTING REINFORCEMENT. SPECIAL ATTENTION SHALL ALSO BE GIVEN WHEN USING SELF-DRILLING ANCHORS IN THE PATCH AREAS.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
POLYMER MODIFIED PORTLAND CEMENT MORTAR	SQ FT	17.0
PROTECTIVE COAT	SQ YD	2.0

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		DRAWN - ESS	REVISED -
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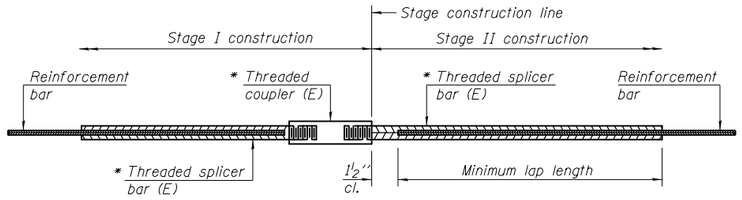
	PLOT DATE = 3/16/2015	DATE - 4/11/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM END REPAIR DETAILS
S.N. 023–0004

SCALE: | SHEET 15 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	90
•E(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

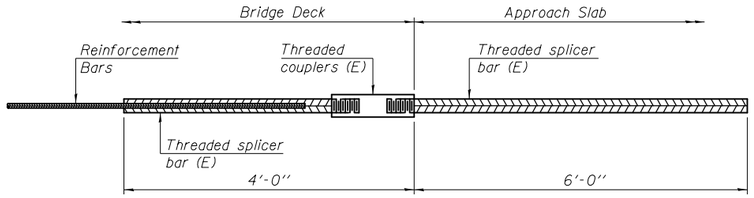
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Class C
Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1½" + thread length

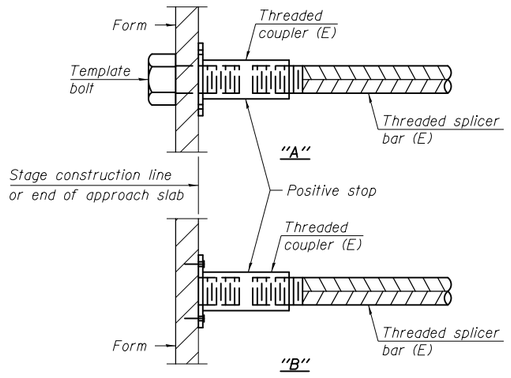
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Structure No.	Location	Bar size	No. assemblies required	Table for minimum lap length
023-0004	APPROACH PAVEMENT	#7	6	3
	DECK END	#6	8	3
	DECK END	#7	20	3



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

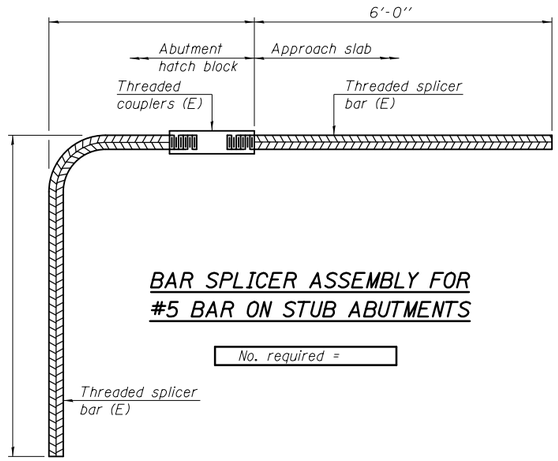
No. required =



INSTALLATION AND SETTING METHODS

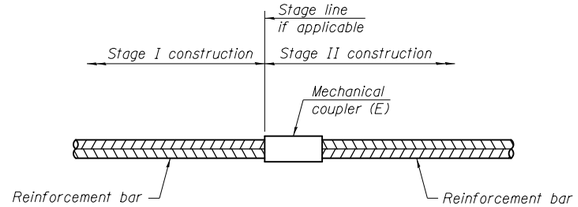
"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

P.
332



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
DECK END	#6	16
DECK END	#7	20

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-27-12

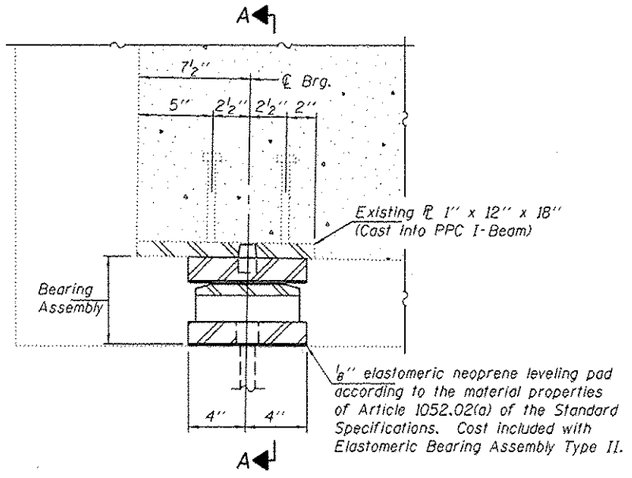
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570839\DrawingData\Structures\D570839-str-023-0004_BSD1.dgn	USER NAME = piersonbr	DESIGNED -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 3/16/2015	CHECKED -	REVISED -
$MODELNAME$		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

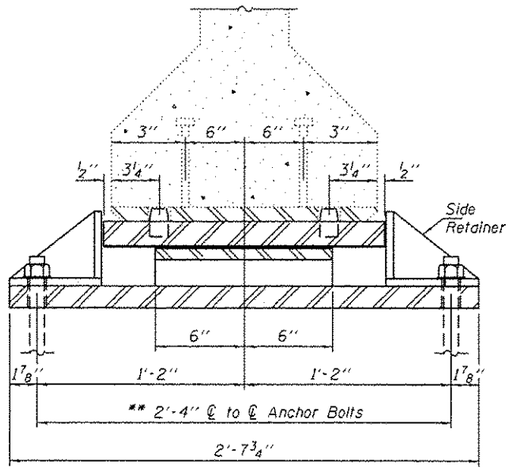
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 023-0004

SCALE: | SHEET 16 OF 36 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	91
•E(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
ILLINOIS FED. AID PROJECT				



ELEVATION AT SOUTH ABUTMENT



SECTION A-A

BEAM REACTIONS

Rℓ	(K)	26.2
Rℓ	(K)	28.1
Imp.	(K)	8.1
R (Total)	(K)	62.4

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 35 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

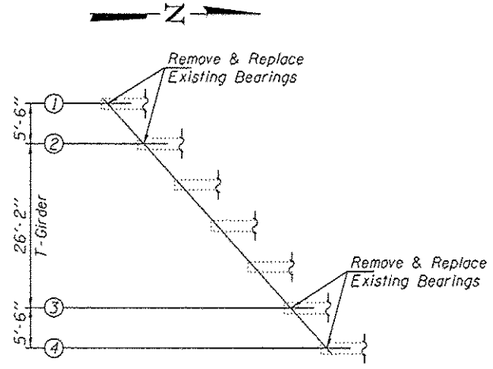
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

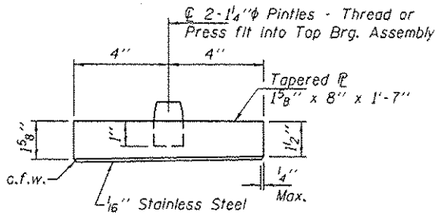
Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



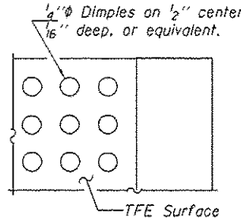
S. ABUT. LOCATION SKETCH

TYPE II TFE ELASTOMERIC EXP. BRG.

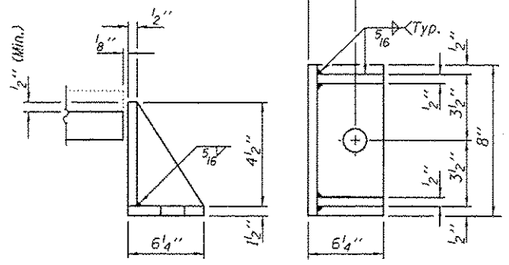
** ℄ 1"ϕ x 12" Anchor bolts with 2½" x 2½" x 5/16" ℙ washer under nut. 1½"ϕ holes in bottom ℙ.



TOP BEARING ASSEMBLY

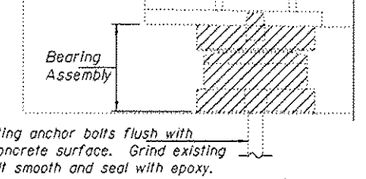


PLAN-PTFE SURFACE



SIDE RETAINER

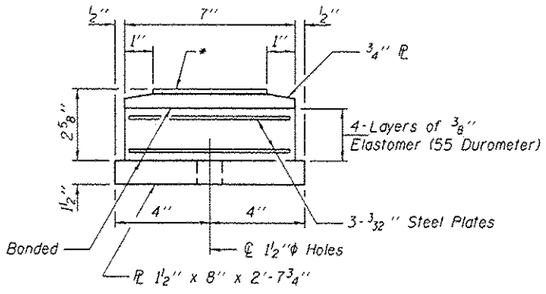
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



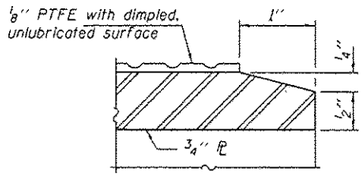
Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

EXISTING BEARING REMOVAL DETAILS

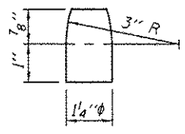
Cost included with Jack and Remove Existing Bearings.



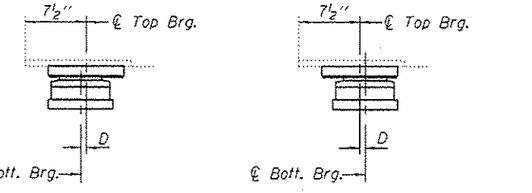
BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



PINTLE



BELOW 50°F. (Move bott. brg. away from fixed brg.)

ABOVE 50°F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	4
Jack and Remove Existing Bearings	Each	4
Anchor Bolts 1"ϕ	Each	8

DESIGNED	-		
CHECKED	-		
DRAWN	Steffen		
CHECKED	-		

PASSED — A Carl Purvis, ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE APRIL 22, 2015

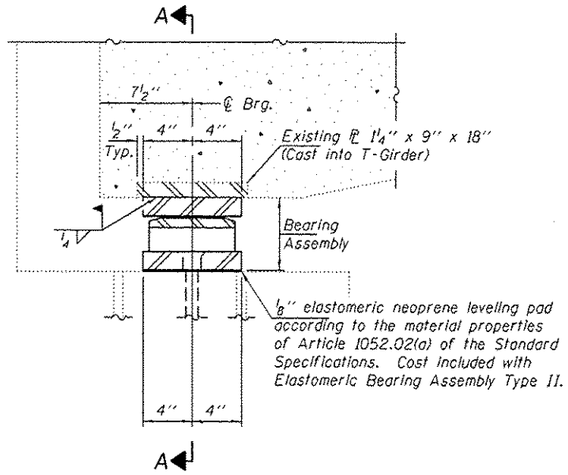
REVISED

REVISED

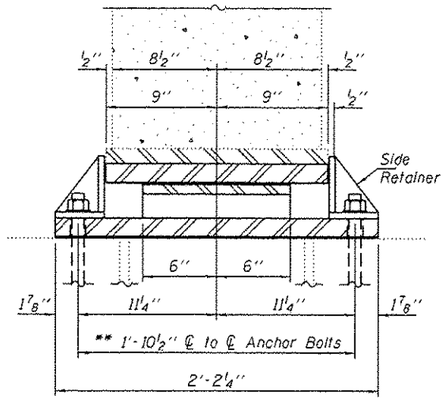
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT – S. ABUT. AT PPC I-BEAMS 1 THRU 4
SN 023-0004
SHEET NO. 17 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(ICX-1)RS-3(IC-X)RS-6)BOR	EDGAR	171	92
		CONTRACT NO. 70835		
		ILLINOIS FED. AID PROJECT		



ELEVATION AT SOUTH ABUTMENT



SECTION A-A

** ℄ 1"ϕ x 12" Anchor bolts with 2½" x 2½" x 5/16" ℄ washer under nut. 1½"ϕ holes in bottom ℄.

BEAM REACTIONS

R℄	(K)	26.2
R℄	(K)	28.1
Imp.	(K)	8.1
R (Total)	(K)	62.4

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 35 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

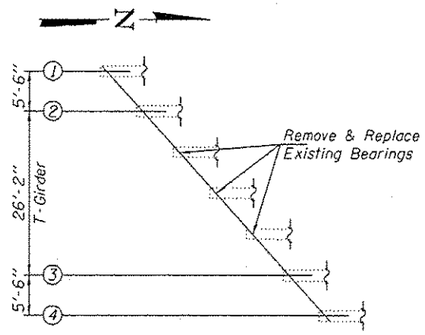
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

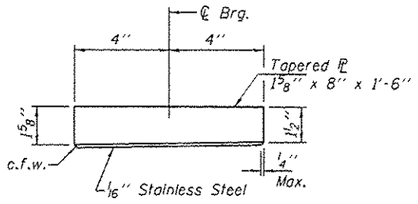
The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

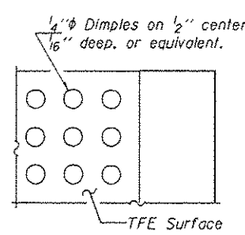


S. ABUT. LOCATION SKETCH

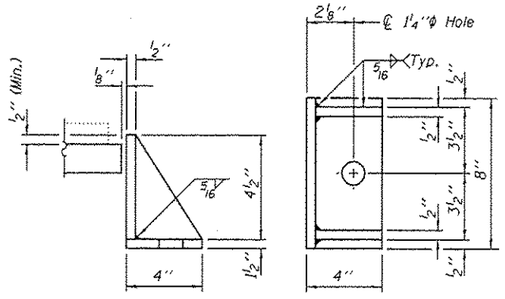
TYPE II TFE ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY

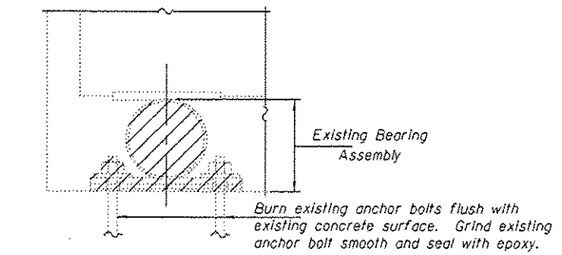


PLAN-PTFE SURFACE



SIDE RETAINER

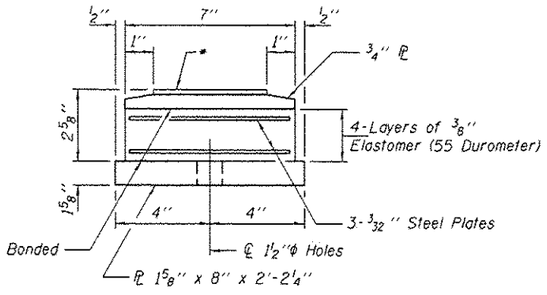
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



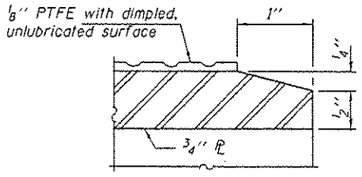
EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

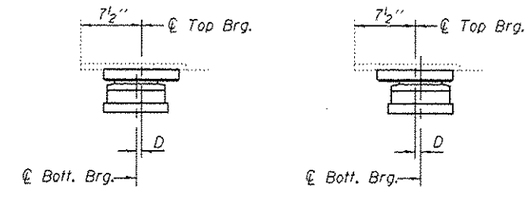
* ⅛" PTFE dimpled, unlubricated



BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE



BELOW 50°F.
(Move bott. brg. away from fixed brg.)

ABOVE 50°F.
(Move bott. brg. toward fixed brg.)

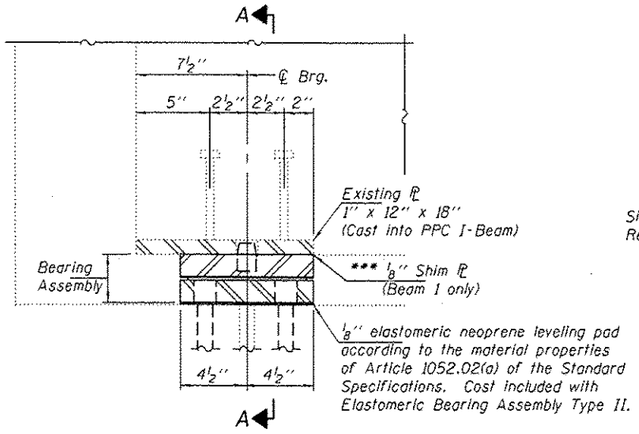
SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

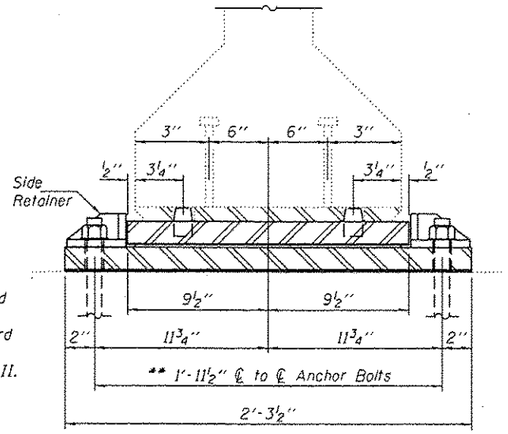
Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	3
Jack and Remove Existing Bearings	Each	3
Anchor Bolts 1"ϕ	Each	6

DESIGNED -		DATE APRIL 22, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING REPLACEMENT – S. ABUT. AT T-GIRDER SN 023-0004	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -		REVISED			132	(1CX-1)RS-3(1C-X)RS-6(3)BR	EDGAR	171	93
DRAWN Steffen	PASSED	REVISED					CONTRACT NO. 70839		
CHECKED -	ACTING ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 18 OF 36 SHEETS			ILLINOIS FED. AID PROJECT		



ELEVATION AT ABUTMENT

*** Cost of ⅛" Shim ℙ included with Elastomeric Bearing Assembly, Type II.



SECTION A-A

** ℄ 1"ϕ x 12" Anchor bolts with 2½" x 2½" x 5/16" ℙ washer under nut. 1½"ϕ holes in bottom ℙ.

EXPANSION BEARING

BEAM REACTIONS

Rℓ	(K)	26.2
Rᵣ	(K)	28.1
Imp.	(K)	8.1
R (Total)	(K)	62.4

Notes:

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New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

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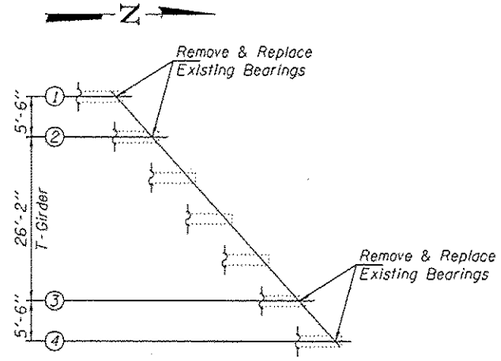
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

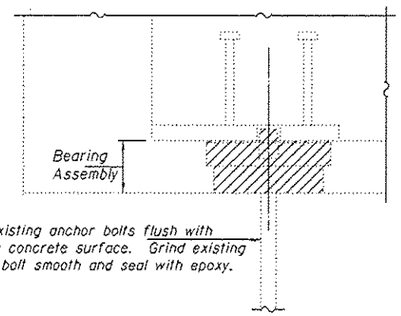
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

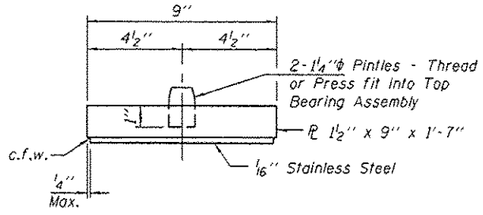


N. ABUT. LOCATION SKETCH

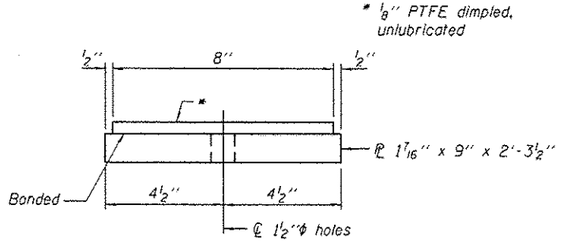


EXISTING BEARING REMOVAL DETAILS

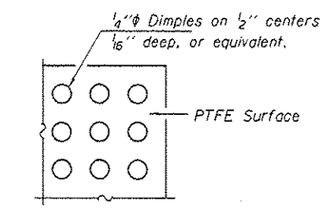
Cost included with Jack and Remove Existing Bearings.



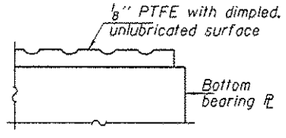
TOP BEARING ASSEMBLY



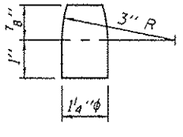
BOTTOM BEARING ASSEMBLY



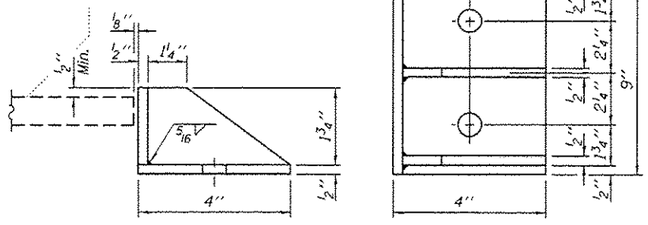
PLAN-TFE SURFACE



SECTION THRU TFE

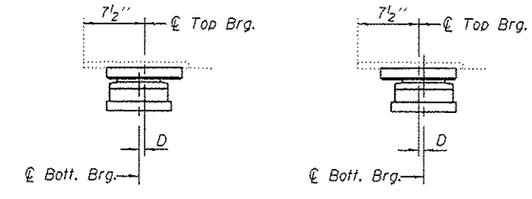


PINTLE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



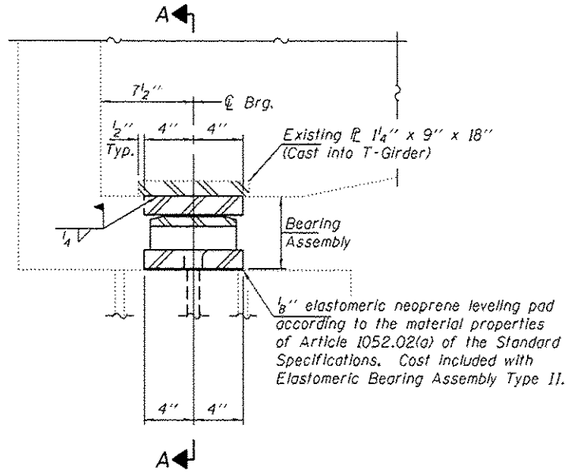
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	4
Jack and Remove Existing Bearings	Each	4
Anchor Bolts 1"ϕ	Each	8

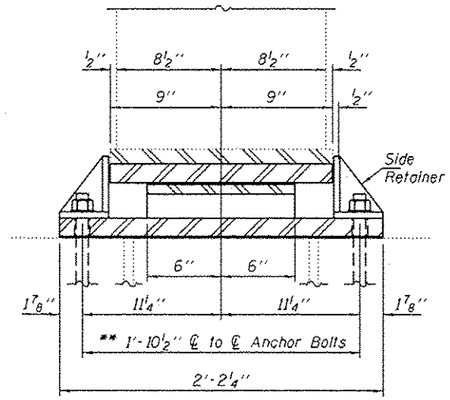
SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

DESIGNED -							
CHECKED -							
DRAWN Steffen	PASSED	DATE APRIL 22, 2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING REPLACEMENT – N. ABUT. AT PPC I-BEAMS 1 THRU 4 SN 023-0004	F.A.P. RTE. 132	SECTION (1CX-1)RS-3(1C-X)RS-6)BOR	COUNTY EDGAR 111	TOTAL SHEETS 54
CHECKED -	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 19 OF 36 SHEETS			CONTRACT NO. 70839	
		REVISED					ILLINOIS FED. AID PROJECT	



ELEVATION AT SOUTH ABUTMENT



SECTION A-A

** ℄ 1"ϕ x 12" Anchor bolts with 2½" x 2½" x ⅝" ℄ washer under nut. 1½"ϕ holes in bottom ℄.

BEAM REACTIONS

R℄	(K)	26.2
R¼	(K)	28.1
Imp.	(K)	8.1
R (Total)	(K)	62.4

Notes:

Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 35 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

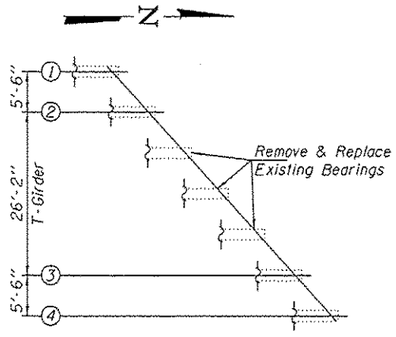
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

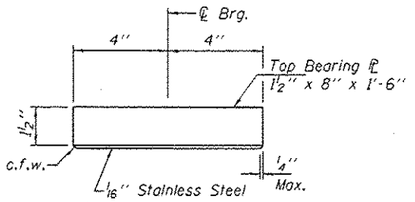
The ⅛" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of ⅛" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

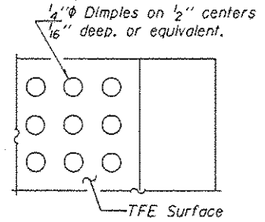


N. ABUT. LOCATION SKETCH

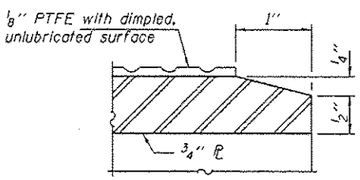
TYPE II TFE ELASTOMERIC EXP. BRG.



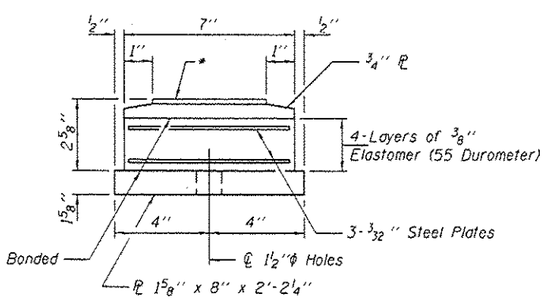
TOP BEARING ASSEMBLY



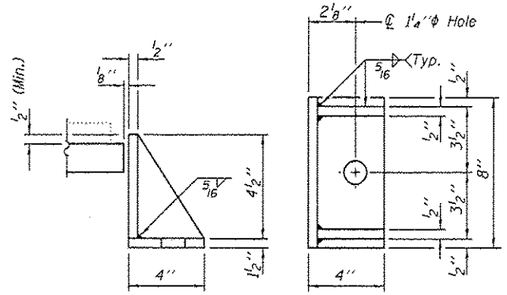
PLAN-PTFE SURFACE



SECTION THRU PTFE

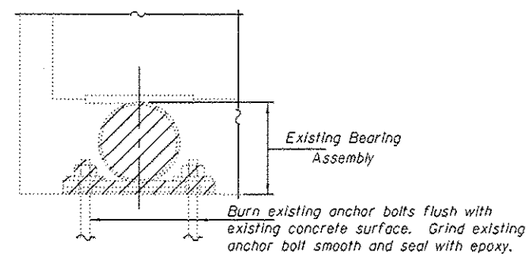


BOTTOM BEARING ASSEMBLY



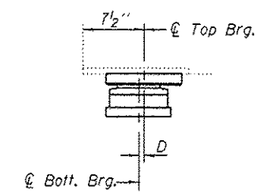
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



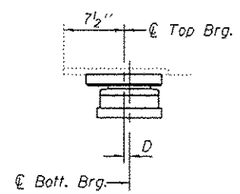
EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



BELOW 50°F.

(Move bott. brg. away from fixed brg.)



ABOVE 50°F.

(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	3
Jack and Remove Existing Bearings	Each	3
Anchor Bolts 1"ϕ	Each	6

DESIGNED	-		
CHECKED	-		
DRAWN	Steffen		
CHECKED	-		

PASSED — ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE APRIL 22, 2015

REVISED

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING REPLACEMENT – N. ABUT. AT T-GIRDER
SN 023-0004

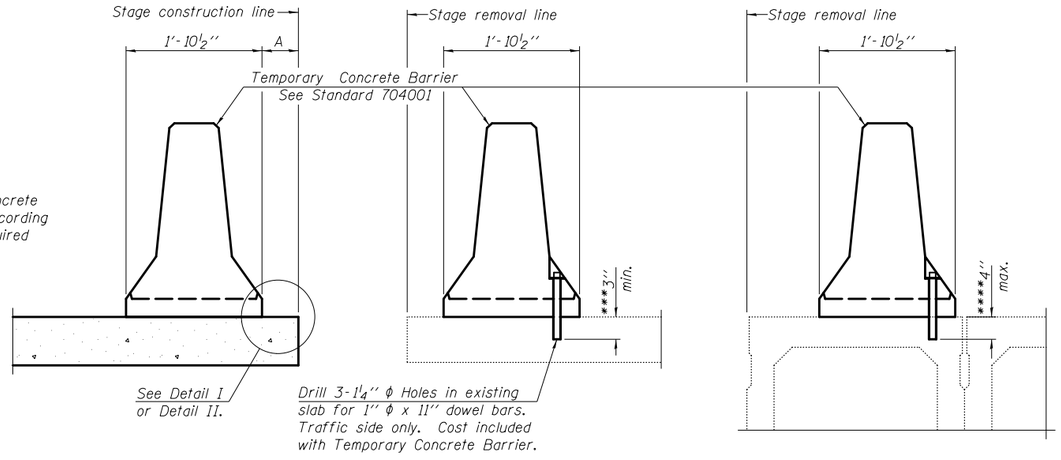
SHEET NO. 20 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	(1CX-1)RS-3C(C-X)RS-6)BDR	EDGAR	171	95

CONTRACT NO. 70839

ILLINOIS FED. AID PROJECT

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7' 'x ''W'' steel PL to the top layer of couplers with 2-$\frac{5}{8}$'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel PL to the concrete slab or concrete wearing surface with 2-$\frac{5}{8}$'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

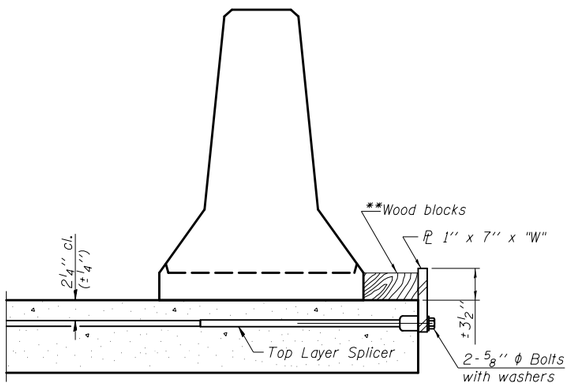
Cost of anchorage is included with Temporary Concrete Barrier.

The 1'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

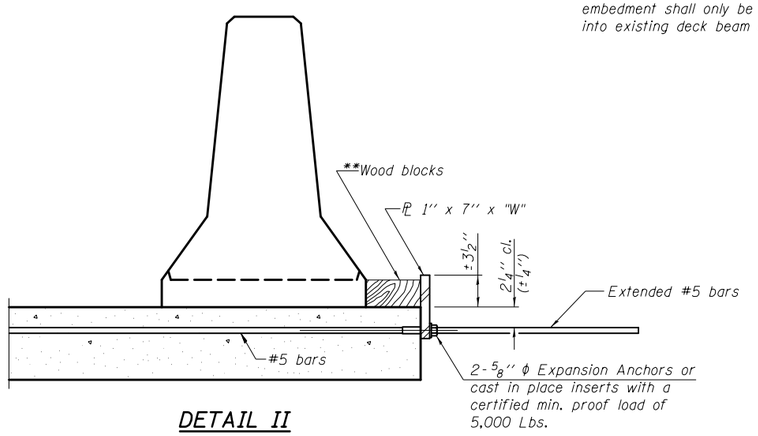
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



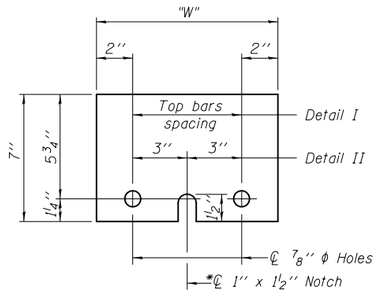
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4''



STEEL RETAINER PL 1'' x 7'' x ''W''

* Required only with Detail II

R-27

7-1-10

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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE REPAIR DETAIL
S.N. 023-0004

SCALE: | SHEET 21 OF 36 SHEETS | STA. | TO STA.

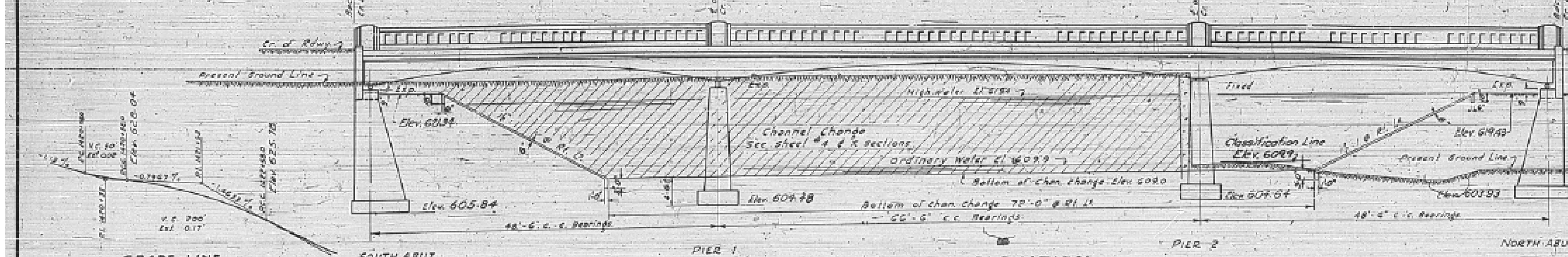
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	96
*E(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
ILLINOIS	FED. AID PROJECT			

AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0004

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

B.M. : N & W. in 24" Ash Tree
Rt Sta. 1423+25 Elev. 617.77

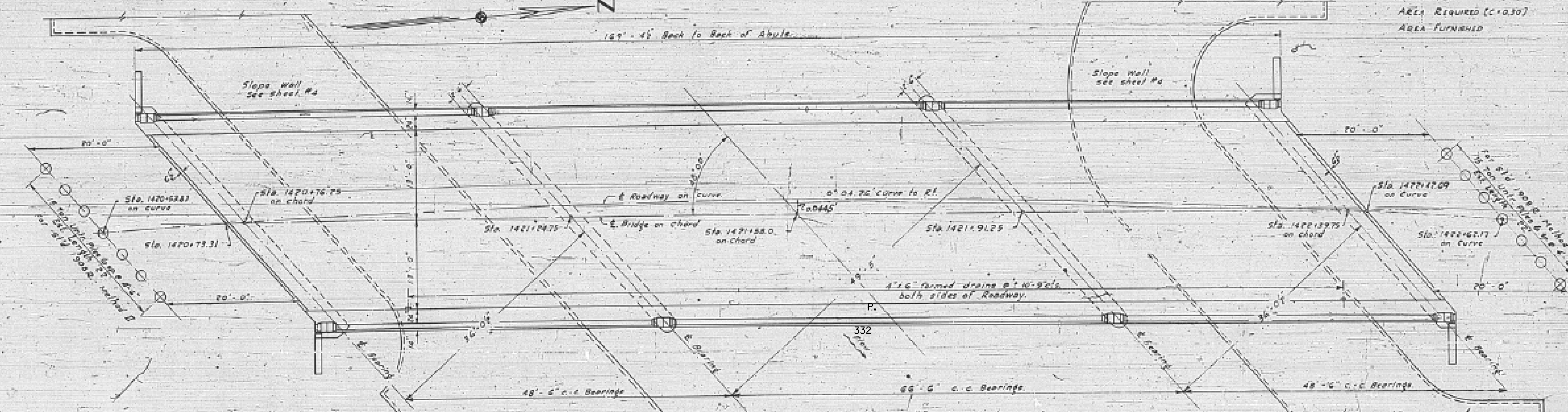
Existing Structure : R. Conc through Girder bridge with R.C. Abutments and Conc. Pier. To be removed by contractor. No materials to be salvaged.



GENERAL ELEVATION

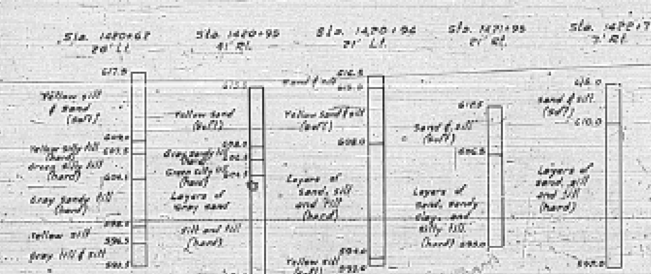
WATERWAY DATA

Drainage Area	40000 Acres
Character	Level, cultivated
Area Required (C=0.50)	849 Sq. ft.
Area Furnished	840 Sq. ft.



GENERAL PLAN

Scale ⅛" = 1'-0"



FOUNDATION BORINGS

Boring Data are shown on the drawings only as a guide to bidders in estimating soil conditions which may be encountered in the work

Pavement Removal
Sta. 1420+44 to Sta. 1421+90
Sta. 1422+67 to Sta. 1422+80
Included in Section 5-X-B
283 Sq. Yds. Pavement Removal.

STANDARD	COMPUTED	R. Wagner
	CHECKED	
	DRAWN	R.W. B.H. Ward
	CHECKED	
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED 5-7-1942
PASSED
APPROVED

STATION 1421+58
BUILT 195_ BY
STATE OF ILLINOIS
S.B.I. RT. 1 SEC. BX-B
F.A. PROJ. F-12(4)
LOADING H20

NAME PLATE LETTERING
See Std. 1881

GENERAL NOTES

Class "X" Concrete shall be used thru-out except as noted.
Hand rail concrete shall be used in hand rails.
Class "A" Concrete shall be used in Piers.
The Concrete floor slab and girders shall be poured in one continuous operation and finished in accordance with Art. 61.3(e) of the Standard Specifications.
Premoulded joint filler shall conform to Art. 115.67 to Art. 115.72 incl. of the Standard Specifications.
Sidewalks and hand rail shall not be poured until after the falsework has been removed.
Slope walls shall be reinforced with welded wire fabric, 6"x6" mesh, #4 wires weighing 58# per 100 sq. ft.
All Rollers, Rockers, Bearing Plates, Lead Plates, and Anchor Bolts shall be furnished, painted and set in accordance with Section 54 of the Specifications.
Paint will be furnished by the Contractor.
All Structural Steel shall receive one shop coat of red lead paint after inspection and two field coats of white lead paint.
Channel Change shall be made by the Contractor. Excavated material shall be used for making the embankment at the N. abutment. The remainder shall be placed in the roadway embankment between Sta. 1419+00 to 1435+00 as directed by the Engineer.
See sheets 7-8-9 for X sections of channel change.
Layout of slope walls may be varied to suit ground conditions in the field as directed by the Engineer.
All reinforcing bars shall conform to A.S.T.M. designation A 305-49.

H-20 Loading

BILL OF MATERIAL

Item		Superstr.	Substr.	Total
Cl. X Conc.	Cu. Yd.	293.9	122.3	416.2
Cl. A Conc.	Cu. Yd.		180.0	180.0
Handrail Conc.	Cu. Yd.	17.8		17.8
Reinf. Bars.	Lbs.	84910	13660	98570
* Struct. Steel.	Lbs.	6490		6490
Slope Wall	Sq. Yds.			658
Channel Excav.	Cu. Yds.			5165
Untr. Piles (28')	Lin. Ft.			308
Pav't Removal	Sq. Yds.			283
Removal Exist. Bridge	Ea.			1
Cl. A. Exc. for Struct.	Cu. Yds.		346	346
Cl. B. Exc. for Struct.	Cu. Yds.		358	358
Name Plates	Ea.	1		1

* Includes expansion rollers, rockers and plates & Lead Pls.

PROJECT F-12(4)
GENERAL PLAN & ELEVATION
BRIDGE OVER BROUILLETS CREEK
S.B.I. RT. 1 SEC. B-XB
EDGAR COUNTY
STA. 1421+56

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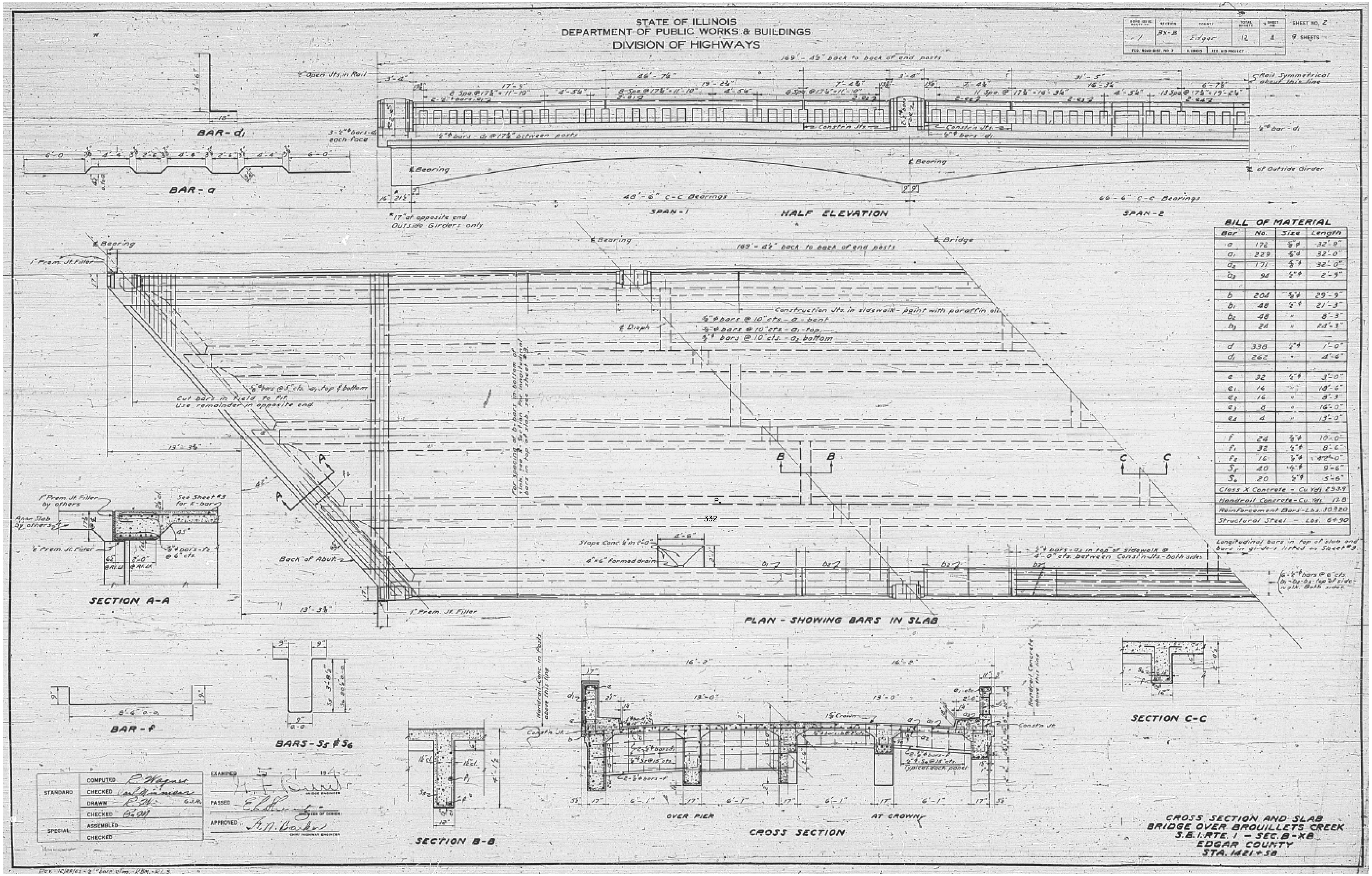
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS–BUILT PLANS
FOR INFORMATION ONLY

SCALE: SHEET 22 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	EDGAR	171	97
*(CX-1)RS-3 & (C-X)RS-6)BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0004



BILL OF MATERIAL

Bar	No.	Size	Length
a	172	5/8"ø	32'-9"
a1	229	5/8"ø	32'-0"
a2	171	5/8"ø	32'-0"
a3	94	1/2"ø	2'-9"
b	204	5/8"ø	29'-9"
b1	48	1/2"ø	21'-3"
b2	48	"	8'-3"
b3	24	"	24'-3"
d	338	1/2"ø	1'-0"
d1	262	"	4'-6"
e	32	1/2"ø	3'-0"
e1	16	"	18'-6"
e2	16	"	8'-3"
e3	8	"	16'-0"
e4	4	"	13'-0"
f	24	3/8"ø	10'-0"
f1	32	1/2"ø	8'-6"
f2	16	5/8"ø	42'-0"
S5	40	1/2"ø	9'-6"
S6	20	1/2"ø	5'-6"

Class X Concrete – Cu. Yds. 293.9

Handrail Concrete – Cu. Yds. 17.8

Reinforcement Bars – Lbs. 30920

Structural Steel – Lbs. 6490

Longitudinal bars in top of slab and bars in girders listed on Sheet #3.

CROSS SECTION AND SLAB
BRIDGE OVER BROUILLETS CREEK
S.B.I. RTE. 1 – SEC. B-XB
EDGAR COUNTY
STA. 1421+58

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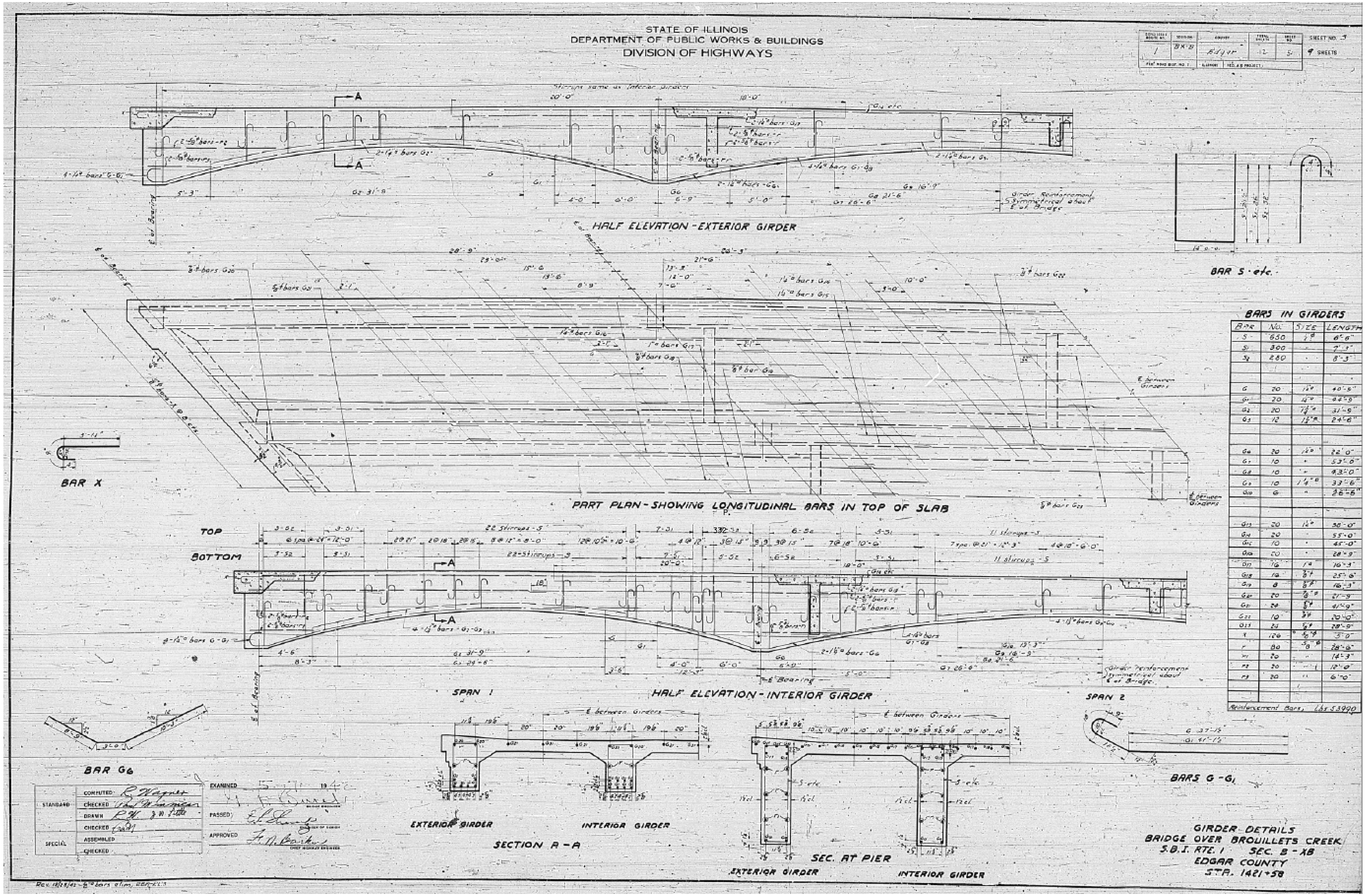
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

SCALE: SHEET 23 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	98
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0004



BARS IN GIRDERS

BAR	NO.	SIZE	LENGTH
S	650	1/2"φ	6'-6"
S1	300	"	7'-3"
S2	280	"	8'-3"
G	20	1 1/2"φ	40'-5"
G1	20	1 1/2"φ	44'-9"
G2	20	1 1/4"φ	31'-5"
G3	12	1 1/2"φ	24'-6"
G6	20	1 1/2"φ	22'-0"
G7	10	"	53'-0"
G8	10	"	43'-0"
G9	10	1 1/4"φ	33'-6"
G10	6	"	26'-6"
G13	20	1 1/2"φ	30'-0"
G14	20	"	55'-0"
G15	10	"	45'-0"
G16	20	"	28'-9"
G17	16	1"φ	16'-3"
G18	10	5/8"φ	25'-6"
G19	8	5/8"φ	16'-3"
G20	20	7/8"φ	21'-9"
G21	24	5/8"φ	41'-9"
G22	10	3/4"φ	20'-0"
G23	24	5/8"φ	28'-9"
X	126	5/8"φ	5'-0"
r	80	5/8"φ	28'-6"
r1	20	"	14'-3"
r2	20	"	12'-0"
r3	20	"	6'-0"

Reinforcement Bars, Lbs 53990

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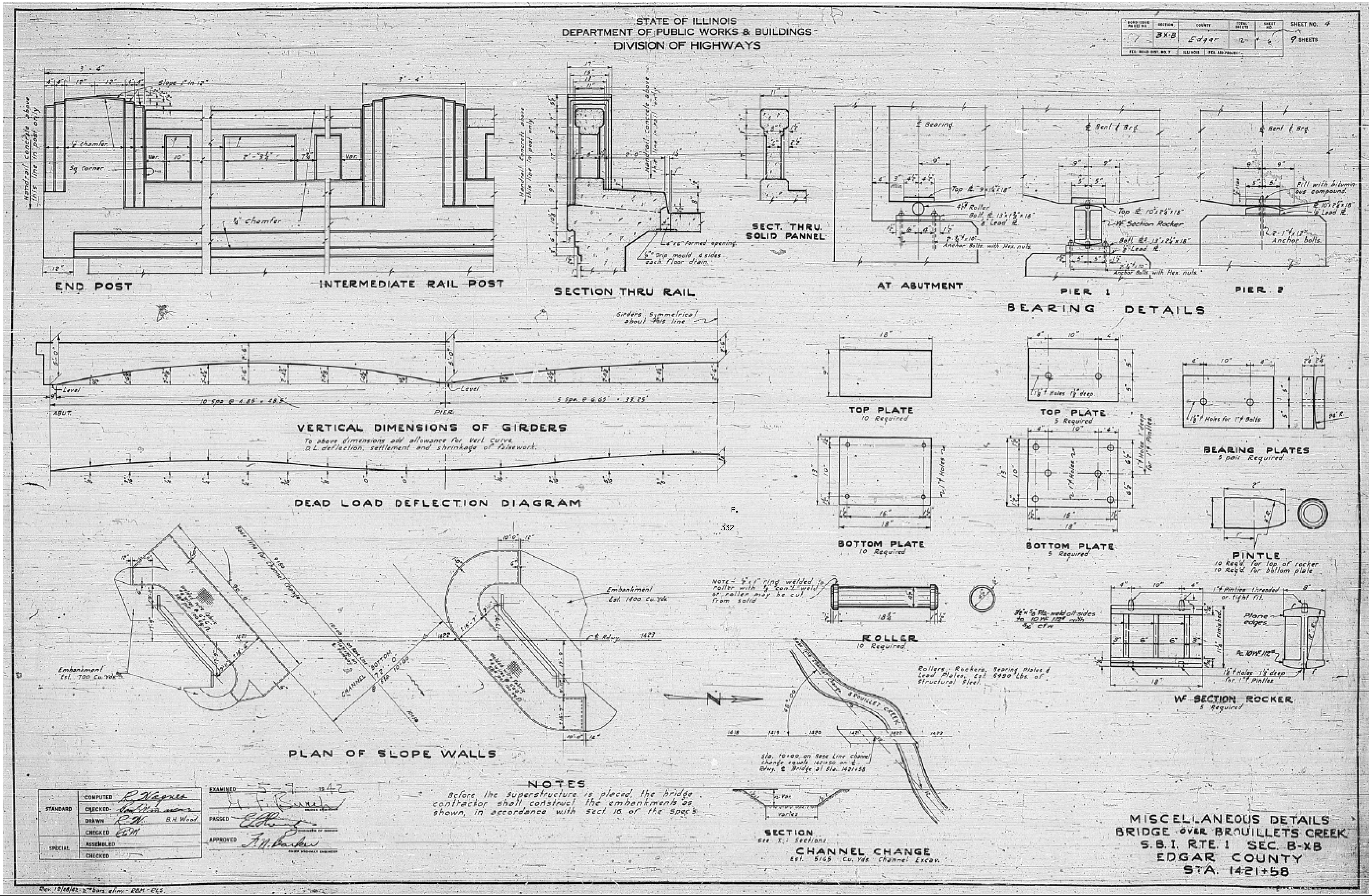
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

SCALE: SHEET 24 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	99
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		

AS–BUILT PLANS (1952)
FOR INFORMATION ONLY
S.N. 023–0004



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332

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
FOR INFORMATION ONLY

SCALE: SHEET 25 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	•	EDGAR	171	100
•[(CX-1)RS-3 & (C-X)RS-6]BDR		CONTRACT NO. 70839		
		ILLINOIS FED. AID PROJECT		