

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

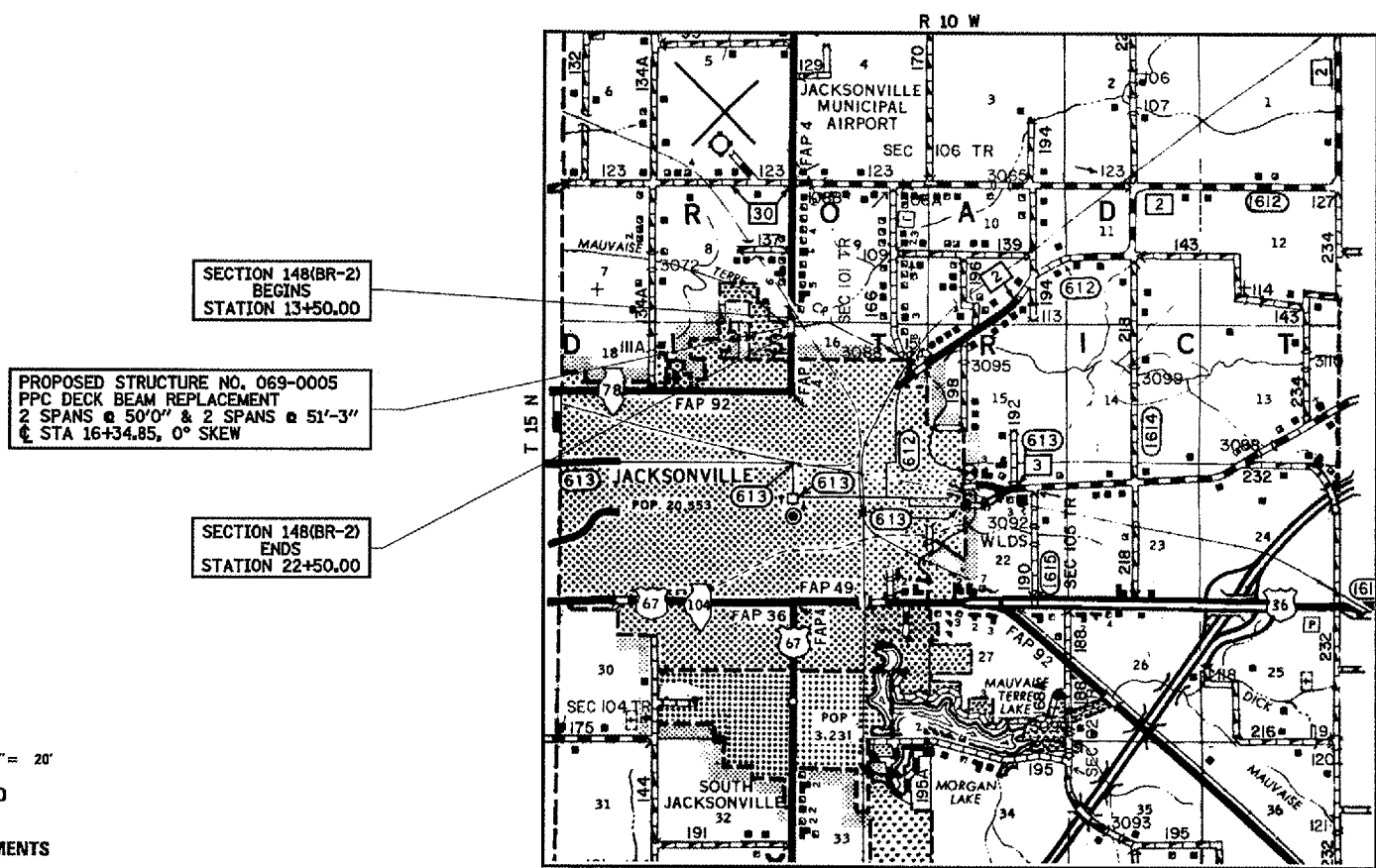
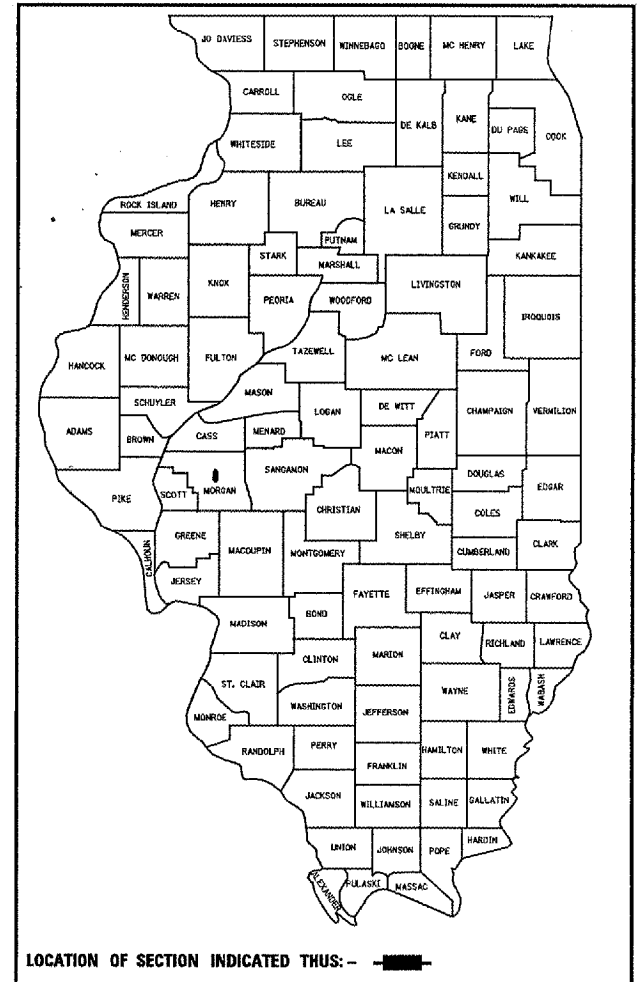
PROPOSED BRIDGE DECK REPLACEMENT PLANS

FAP ROUTE 614 (IL 78) OVER MAUVAISE TERRE CREEK
SECTION 148(BR-2)
PROJECT : ACBHF-0614 (025)
MORGAN COUNTY
C-96-536-07

INDEX OF SHEETS

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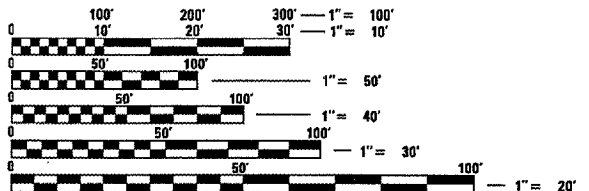
D-96-524-05



SECTION 148(BR-2)
BEGINS
STATION 13+50.00

PROPOSED STRUCTURE NO. 069-0005
PPC DECK BEAM REPLACEMENT
2 SPANS @ 50'-0" & 2 SPANS @ 51'-3"
@ STA 16+34.85, 0° SKEW

SECTION 148(BR-2)
ENDS
STATION 22+50.00

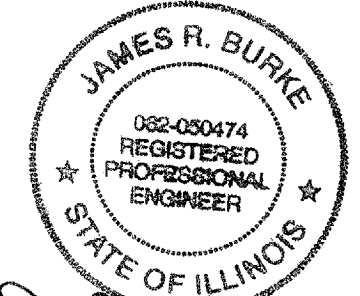


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DESIGN DESIGNATION
ILLINOIS ROUTE 78
MINOR ARTERIAL, (NON-URBAN)
ADT = 5,400 (2027)
% SU = 6
% MU = 3

TOTAL LENGTH OF PROJECT = 900.00 FEET = 0.170 MILES
NET LENGTH OF PROJECT = 900.00 FEET = 0.170 MILES



J.R. Burke 8/24/07
Exp 11/30/07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 19 2007
Deputy Director of Highways, Region Engineer
Dec 7 2007
Eric E. Harnoff
Interim Engineer of Design and Environment
Dec 7 2007
Christine M. Reed
Director of Highways, Chief Engineer

Hutchison Engineering, Inc.
JACKSONVILLE
SHOREWOOD
SINCE 1945

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: JOHN NEGANGARD (217) 782-6990
SQUAD LEADER: VINCE MADONIA (217) 785-9046

CONTRACT NO. 72991

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	2
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

- ALL ELEVATIONS REFER TO NAVD88 DATUM.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL DISTURBED UNSURFACED AREAS WITHIN THE ROW AND EASEMENTS SHALL BE SEEDED, FERTILIZED, AND MULCHED AS SHOWN IN THE PLANS, SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION.
- FERTILIZER NUTRIENTS SHALL BE APPLIED TO BOTH THE SEEDED AREAS AND THE AREAS COVERED WITH EROSION CONTROL BLANKET.
- DO NOT INCLUDE MULCH OR EMULSIFIED ASPHALT ON EROSION CONTROL BLANKET AREAS.
- BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- ALL TREES, BRUSH AND SHRUBS WITHIN THE CONSTRUCTION LIMITS WILL BE REMOVED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. TREES ALONG THE EDGE OF RIGHT OF WAY, OUTSIDE THE CONSTRUCTION LIMITS SHALL BE SAVED IF, IN THE OPINION OF THE ENGINEER, THEY DO NOT INTERFERE WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
- IN ACCORDANCE WITH STATE OF ILLINOIS P.A. 86-0674, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.

J.U.L.I.E. TELEPHONE NUMBER
811 OR 1-800-892-0123

KNOWN UTILITIES LOCATION WITHIN THE LIMITS OF THIS IMPROVEMENT ARE:

VERIZON NORTH
MEDIACOM
AMEREN CIPS
NORTH MORGAN WATER COOPERATIVE
CITY OF JACKSONVILLE

- THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- AN ASPHALT PRIME SHALL BE REQUIRED FOR THE PRIMING OF THE MAINLINE PAVEMENT TO BE RESURFACED. THE AREA PRIMED SHALL BE LIMITED TO THAT WHICH WILL BE COVERED WITH BITUMINOUS CONCRETE THAT SAME DAY.
- EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO RESURFACING.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES :
 AGGREGATE (SURFACE, BASE, SUBBASE, OR BACKFILL) 2.05 TON/CUBIC YARD
 STONE DUMPED RIPRAP 1.75 TON/CUBIC YARD
 BITUMINOUS MATERIALS (PRIME COAT) 0.00038 TON/SQUARE YARD (ON PAVEMENT)
 BITUMINOUS MATERIALS (PRIME COAT) 0.001425 TON/SQUARE YARD (ON AGGREGATE)
 AGGREGATE (PRIME COAT) 0.002 TON/SQUARE YARD
 HOT-MIX ASPHALT SURFACE (112 LBS) 0.056 TON/SQUARE YARD-INCH
 NITROGEN FERTILIZER NUTRIENT 90 LBS/ACRE
 PHOSPHOROUS FERTILIZER NUTRIENT 90 LBS/ACRE
 POTASSIUM FERTILIZER NUTRIENT 90 LBS/ACRE
 AGRICULTURE GROUND LIMESTONE 2 TON/ACRE

15. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S)	HMA SURFACE COURSE	FLEXIBLE CONNECTOR BINDER	FLEXIBLE CONNECTOR SURFACE	INCIDENTAL HMA SURFACE	HMA SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22
DESIGN AIR VOIDS	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50	2.0% @ N DESIGN=30
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5 OR 12.5	IL-19.0	IL-9.5 OR 12.5	IL-9.5 OR 12.5	BAM
FRICITION AGGREGATE	MIX "C"	N/A	MIX "C"	MIX "C"	N/A

16. UNLESS OTHERWISE NOTED, THE OFFSETS SHOWN IN THE PLANS FOR THE END OF PIPE CULVERTS ARE TO THE END OF THE LAST SECTION OF PIPE NOT TO THE END OF THE END SECTION.

COMMITMENTS

THE FIELD/RESIDENT ENGINEER SHALL CONTACT DISTRICT 6 STUDIES & PLANS AT 217-782-6990 CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN, AND TO ALLOW IMPROVEMENTS IN THE DESIGN FOR FUTURE PROJECTS.

AGREEMENT WITH BNSF RAILROAD




LETTER OF UNDERSTANDING WITH MORGAN COUNTY HIGHWAY DEPARTMENT FOR PROPOSED DETOUR ROUTE

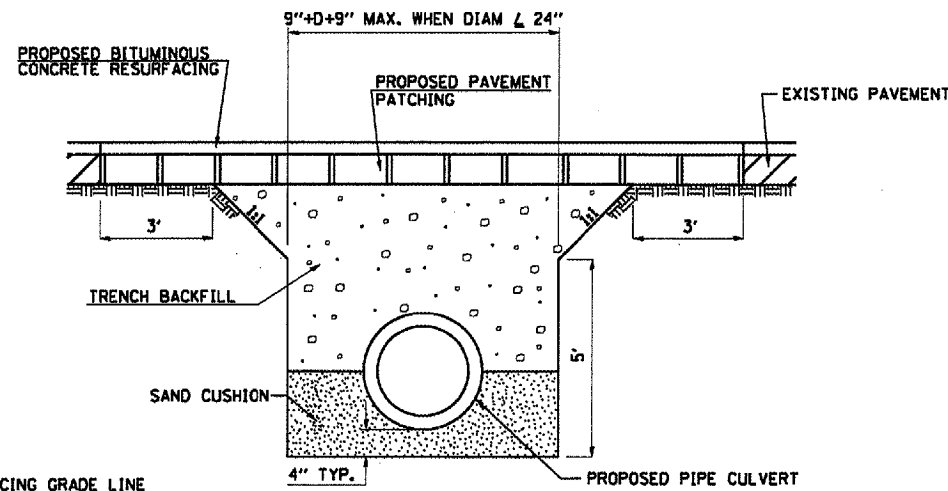
MAXIMUM ALLOWABLE ROAD CLOSURE OF 2 MONTHS (DURING SUMMER) PER NOTIFICATION TO MORGAN COUNTY, AREA SCHOOL DISTRICT, AND EMERGENCY SERVICES

STANDARDS

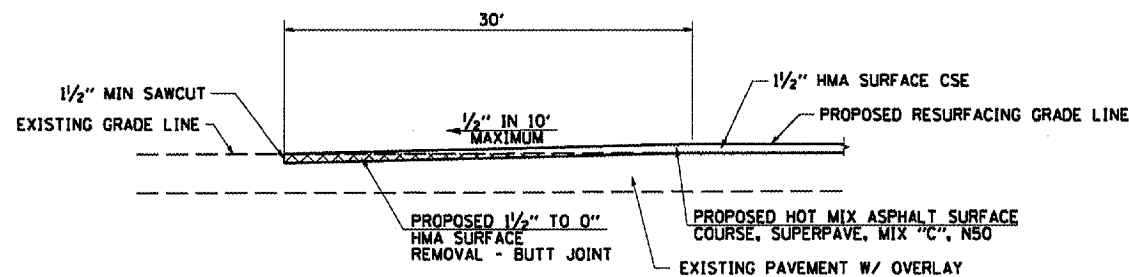
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- 001001-01
- 001006
- 280001-04
- 420401-06
- 442201-03
- 515001-02
- 542301-01
- 630001-07
- 630301-04
- 631032-03
- 635006-02
- 635011-01
- 666001
- 701001-01
- 701006-02
- 701011-01
- 701201-02
- 701301-02
- 701306-01
- 701311-02
- 701901
- 780001-01
- 781001-02
- BLR 21-7
- BLR 22-5

LEGEND

-  PAVEMENT REMOVAL
-  HMA SURFACE REMOVAL-BUTT JOINT
-  TO BE REMOVED



DETAIL OF TRENCH EXCAVATION, PAVEMENT REMOVAL, PAVEMENT REPLACEMENT AND BACKFILL UNDER EXISTING PAVEMENT



BUTT JOINT DETAIL
(SEE PLANS FOR LOCATIONS)

DISTRICT SIX		
EXAMINED	<i>8/6</i>	20 <i>07</i>
<i>Kevin J. Hawk</i>		
OPERATIONS ENGINEER		
EXAMINED	<i>July 30</i>	20 <i>07</i>
<i>W.R. [Signature]</i>		
PROGRAM IMPLEMENTATION ENGINEER		
EXAMINED	<i>July 31</i>	20 <i>07</i>
<i>WR [Signature]</i>		
PROGRAM DEVELOPMENT ENGINEER		

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND LEGEND

DRAWN BY JCW

DATE 02/28/07

CHECKED BY JRB

SUMMARY OF QUANTITIES

80% FED./20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
X0325905	<i>ERECTING</i> PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	6,627		6,627
X0325303	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCH)	SQ FT	24		24
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCH)	SQ FT	58		58
X7011005	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	1	
* XX005496	TRAFFIC BARRIER TERMINAL, TYPE 6A (SPECIAL)	EACH	1	1	
XX005519	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	TON	1,461	376	1,085
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	88		88
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	42	42	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	76	76	
20200100	EARTH EXCAVATION	CU YD	515	515	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	14	14	
20400800	FURNISHED EXCAVATION	CU YD	418	418	

* SPECIALTY ITEM

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	4
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

80% FED. / 20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
20800150	TRENCH BACKFILL	CU YD	55	55	
25000200	SEEDING, CLASS 2	ACRE	0.75	0.75	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	70	70	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	70	70	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	70	70	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2	2	
25100115	MULCH, METHOD 2	ACRE	0.75	0.75	
25101005	HEAVY DUTY EXCELSIOR BLANKET	SQ YD	2,000	2,000	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200	200	
28000400	PERIMETER EROSION BARRIER	FOOT	500	500	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28001000	AGGREGATE (EROSION CONTROL)	TON	40	40	
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	55	55	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

DATE: 02/28/07
 DRAWN BY JCW
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	5
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
35101400	AGGREGATE BASE COURSE, TYPE B	TON	103	103	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	50	50	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	3.4	3.4	
40600300	AGGREGATE (PRIME COAT)	TON	28	28	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	560	560	
40600990	TEMPORARY RAMP	SQ YD	54	54	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1,220	1,144	76
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACE	TON	7	7	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	220	220	
42001300	PROTECTIVE COAT	SQ YD	220	220	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	44	44	
44000100	PAVEMENT REMOVAL	SQ YD	232	232	

80% FED./20% STATE

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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DATE: 02/28/07

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				I000	X080-2A
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	332	332	
44200144	PAVEMENT PATCHING, TYPE II, 12 INCH	SQ YD	200	200	
44200148	PAVEMENT PATCHING, TYPE III, 12 INCH	SQ YD	146	146	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	200	200	
48101300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	TON	46	46	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	515	515	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	0.8		0.8
50105220	PIPE CULVERT REMOVAL	FOOT	170	170	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	190		190
50901050	STEEL RAILING, TYPE SM	FOOT	405		405
51500100	NAME PLATES	EACH	1		1
52000030	PREFORMED JOINT SEAL 2 1/2"	FOOT	66		66

80% FED. / 20% STATE

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	7
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED. / 20% STATE CONSTRUCTION CODE	
				I000	X080-2A
54200439	PIPE CULVERTS, TYPE 1 RCCP 24"	FOOT	140	140	
54201279	PIPE CULVERTS, TYPE 2 RCCP 24"	FOOT	62	62	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4	
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	738		738
<i>58300100</i>	<i>PORTLAND CEMENT MORTAR FAIRING COURSE</i>	<i>FOOT</i>	<i>2008</i>		<i>2008</i>
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	512.5	512.5	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3	3	
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	3	3	
* 63100175	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	1	1	
63200310	GUARDRAIL REMOVAL	FOOT	213	213	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	6	6	
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

Rev.

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	8
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED. / 20% STATE CONSTRUCTION CODE	
				I000	X080-2A
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70101030	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1	
70101035	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	590	590	
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	2,025	2,025	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,084	1,084	
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	75,025	75,025	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12	

*SPECIALTY ITEMS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES DRAWN BY JCW CHECKED BY JRB
NAME	DATE	

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DATE: 02/28/07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	9
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GUARDRAIL SCHEDULE

STATION TO STATION	SIDE	STEEL PLATE BEAM GUARDRAIL, TYPE A	STEEL RAILING, TYPE SM	TRAFFIC BARRIER TERMINALS				TERMINAL MARKER - DIRECT APPLIED
				TYPE 1, SPECIAL (TANGENT)	TYPE 6A	TYPE 6A, SPECIAL	TYPE 2, SPECIAL	
FOOT				EACH				
14+33.6	15+33.6	RT		1	1			1
14+77.8	15+33.6	LT				1	1	1
15+33.6	17+36.1	LT	202.5					
15+33.6	17+36.1	RT						
17+36.1	21+73.6	RT	337.5	1	1			1
17+36.1	20+11.1	LT	175.0	1	1			1
TOTALS			512.5	3	3	1	1	4
USE			512.5	3	3	1	1	4

BRIDGE APPROACH PAVEMENT SCHEDULE

STATION TO STATION	SUB-BASE GRANULAR MATERIAL, TYPE A	BRIDGE APPROACH PAVEMENT
	TON	SO YD
IL 78		
15+04.27	15+34.27	27.4
17+35.43	17+65.43	27.4
TOTALS		54.8
USE		55

THE FOLLOWING ITEMS ARE TO BE USED AS NECESSARY AND DIRECTED BY THE ENGINEER FOR REPAIR OF THE MOBIL RD/BALDWIN RD DETOUR:

ITEM	UNIT	QUANTITY
BITUMINOUS MATERIALS (PRIME COAT)	TON	2.7
AGGREGATE PRIME COAT	TON	28
HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SO YD	320
TEMPORARY RAMP	SO YD	54
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1000
PAVEMENT PATCHING, TYPE II, 12"	SO YD	200
PAVEMENT PATCHING, TYPE III, 12"	SO YD	100
AGGREGATE SHOULDERS, TYPE B	TON	200
PAINT PAVEMENT MARKING-LINE 5"	FOOT	73,000
SHORT-TERM PAVEMENT MARKING	FOOT	500
WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	210
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1

EARTHWORK SCHEDULE

STATION TO STATION	SIDE	EARTH EXCAVATION	EMBANKMENT	EMBANKMENT ADJUSTED FOR SHRINKAGE	BALANCE WASTE OR SHORTAGE (-)
CU. YD.					
13+50.00	16+00.00	LT & RT	54.6	61.7	77.2
16+00.00	22+50.00	LT & RT	459.6	979.5	1224.4
ADJUSTMENT FOR GRADING AND SHAPING SHOULDER, 24" RCCP INSTALLATION, RIPRAP EXC.				1301.6	370.2
TOTALS			514.2	1041.2	2603.2
USE			515	1,042	2,604

- SHRINKAGE FACTOR = 25%
- TO BE PAID FOR AS FURNISHED EXCAVATION

PAVEMENT REMOVAL

STATION TO STATION	SIDE	LENGTH	WIDTH	AREA
FOOT				
14+98.27	15+34.27	LT & RT	36	29
17+35.43	17+71.43	LT & RT	36	29
TOTAL				232.0
USE				232

PIPE CULVERT REMOVAL

STATION	SIDE	SIZE	TYPE	FOOT
14+88.57	RT	18"	CMP	88.5
15+52.94	LT & RT	18"	CMP	47.8
17+34.0	RT	36"	CMP	33.0
TOTAL				169.3
USE				170

EXCAVATING AND GRADING EXISTING SHOULDER

STATION TO STATION	SIDE	LENGTH	UNITS
FT			
13+50.00	15+34.27	LT & RT	368.5
17+35.43	22+50.00	LT & RT	1,029.1
TOTAL			14.0
USE			14

GUARDRAIL REMOVAL

STATION TO STATION	SIDE	LENGTH
FT		
14+79.5	15+34.3	LT
14+84.3	15+34.3	RT
17+35.4	17+85.4	LT
17+35.4	17+85.4	RT
TOTAL		212.5
USE		213

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

STATION TO STATION	LENGTH	WIDTH	AREA
FT			
14+98.27	15+04.27	6	33
17+65.43	17+71.43	6	33
TOTAL			44
USE			44

STONE RIPRAP, CLASS A4 (SPECIAL)

STATION TO STATION	SIDE	STONE DUMPED RIPRAP, CLASS A4
TON		
17+35.4	18+60.0	RT
FROM BRIDGE PLANS		1,085.0
TOTAL		1,461.0
USE		1,461

TREE REMOVAL SCHEDULE

STATION	OFFSET	SIDE	6 TO 15 UNITS DIAMETER	OVER 15 UNITS DIAMETER
UNITS				
19+00.0	41.8	LT	10	
19+00.0	41.8	LT	11	
19+00.0	41.8	LT	11	
19+00.0	41.8	LT	10	
19+52.0	43.5	LT		32
20+92.0	43.0	LT		44
TOTAL			42	76
USE			42	76

SEEDING SCHEDULE

STATION TO STATION	SIDE	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
		ACRE		LB		TON	ACRE
13+50.0	15+34.3	0.10	9.0	9.0	9.0	0.2	0.1
17+35.4	22+50.0	LT	0.40	36.0	36.0	0.8	0.4
17+35.4	22+50.0	RT	0.25	22.5	22.5	0.5	0.25
TOTAL		0.75	67.5	67.5	67.5	1.5	0.75
USE		0.75	70	70	70	2	0.75

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

STATION	OFFSET	SIDE	EACH
FEET			
17+63.04	35.46	LT	1
17+84.65	50.00	LT	1
19+06.84	50.00	LT	1
21+56.86	50.00	LT	1
22+50.20	50.00	LT	1
22+50.27	39.64	LT	1
TOTAL			6
USE			6

PAVING SCHEDULE

STATION TO STATION	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	HOT-MIX ASPHALT SHOULDERS, 8"
		TON	SO YD	TON	SO YD	TON
IL 78						
13+50.00	15+34.27	0.16	80.0	34.8	331.5	9.6
17+35.43	22+50.00	0.50	160.0	109.1	36.2	371.7
TOTALS		0.66	240.0	143.9	331.5	45.8
USE		0.7	240	144	332	515

ESTIMATED QUANTITIES

ITEMS	AGGREGATE (EROSION CONTROL)	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	HEAVY DUTY EXCELSIOR BLANKET	TEMPORARY EROSION CONTROL SEEDING
THE SHOWN ITEMS INCLUDE ESTIMATED QUANTITIES FOR EROSION CONTROL					
	TON	FOOT	EACH	SO YD	POUND
	40	500	2	2,000	200
TOTAL	40	500	2	2,000	200
USE	40	500	2	2,000	200

ENTRANCE PAVEMENT SCHEDULE

STATION	SIDE	TYPE	AREA	AGG BASE CSE, TYP B	INCIDENTAL HMA SURFACE
			SO YD	TON	
14+15.0	RT	FE	151.6	51.8	
14+52.5	LT	PE & MB	67.0	22.9	6.8
22+13.0	RT	FE	82.5	28.2	6.8
TOTAL				102.9	6.8
USE				103	7

REVISIONS

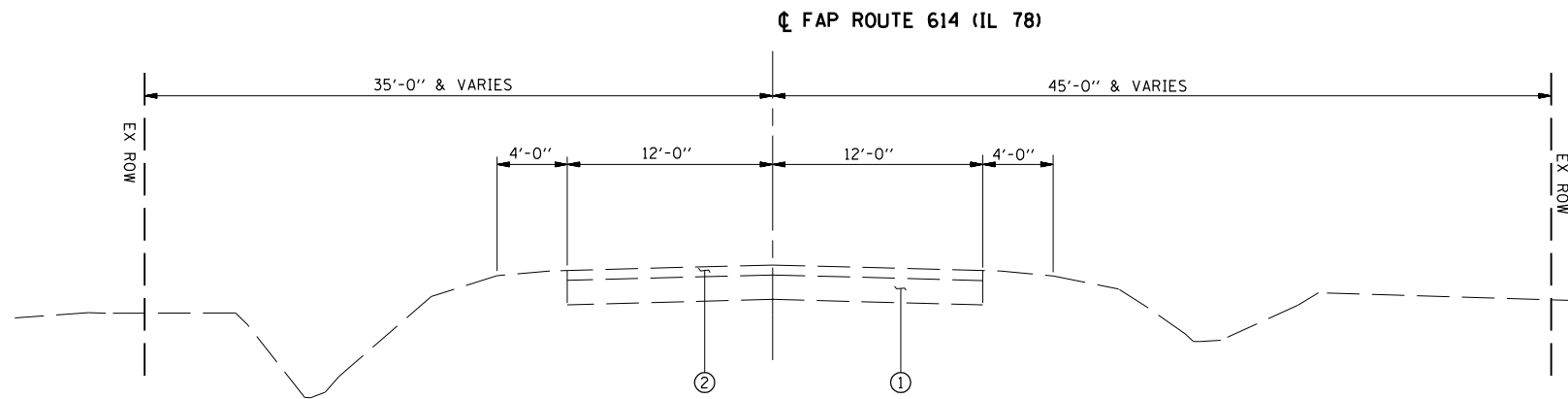
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

QUANTITY SCHEDULES

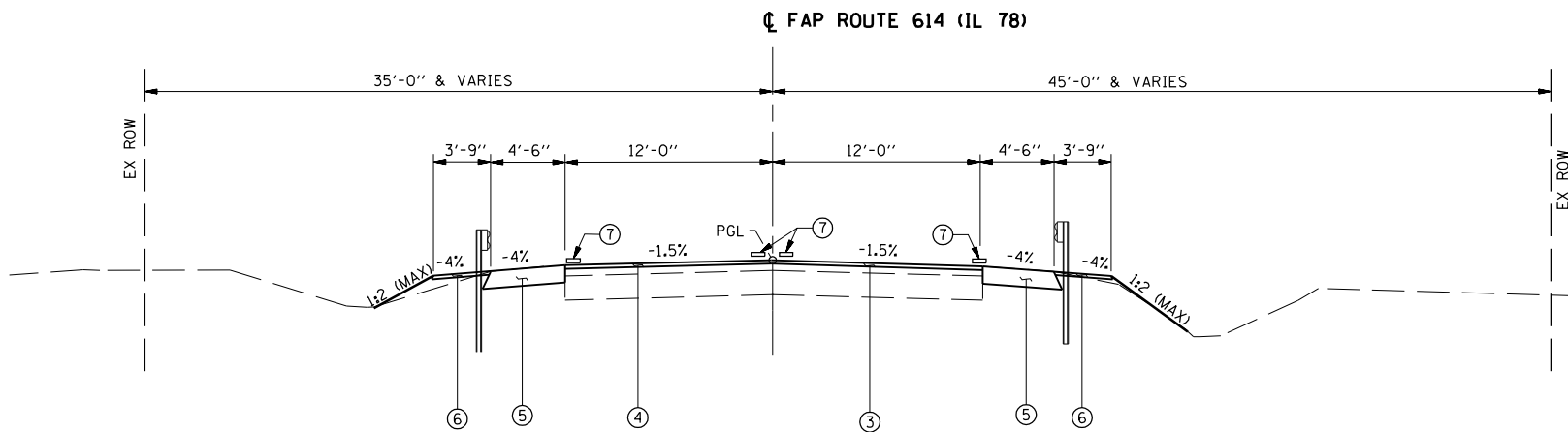
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DRAWN BY JCW
CHECKED BY JRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



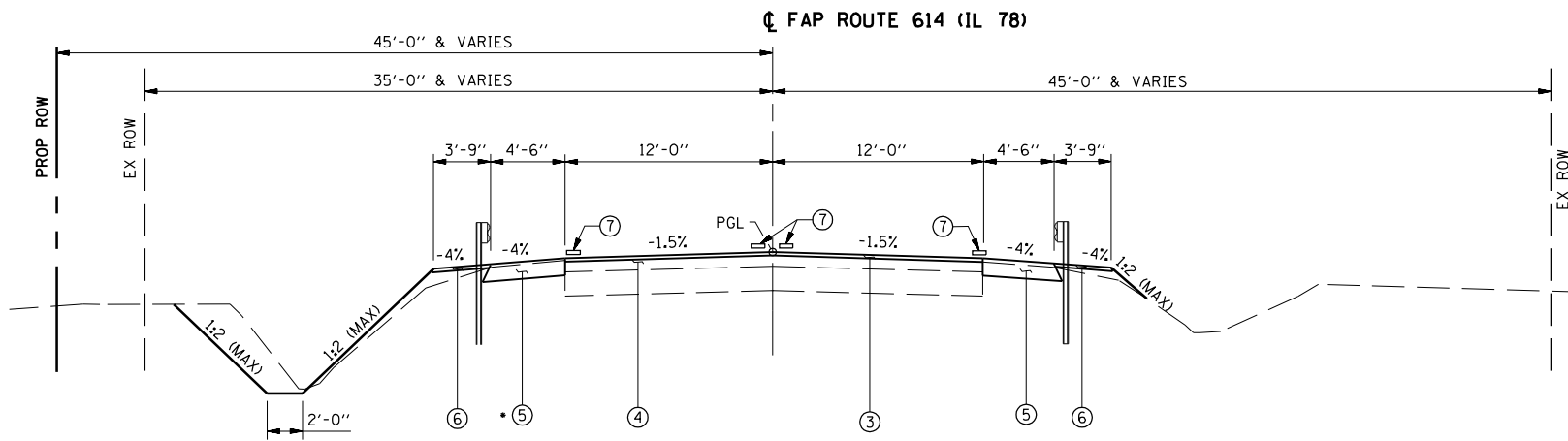
EXISTING TYPICAL SECTION

STA. 13+73.60 TO STA. 22+50.00
(BRIDGE OMISSION STA. 15+33.60 TO STA. 17+36.10)



PROPOSED TYPICAL SECTION

STA. 13+50.00 TO STA. 15+04.27
(BRIDGE/APPROACH OMISSION STA 15+04.27 TO STA 17+65.43)



PROPOSED TYPICAL SECTION

* RT STA 20+43.6 TO RT STA 22+50.0
PLACE AGGREGATE SHOULDER (SPECIAL)
IN LIEU OF HMA SHOULDER

STA. 17+65.43 TO STA. 22+50.00

NOTE:
SEE PLAN VIEW FOR GUARDRAIL
LOCATIONS AND SHOULDER TAPERS.

LEGEND

- ① EXISTING PAVEMENT (9" HMA MIN)
- ② EXISTING HOT-MIX ASPHALT SURFACE (3" & VAR)
- ③ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1 1/2")
- ④ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL (1 1/2")
- ⑤ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- ⑥ PROPOSED AGGREGATE SHOULDERS, TYPE B (SPECIAL) (3")
- ⑦ PROPOSED PAINT PAVEMENT MARKING, LINE 5"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

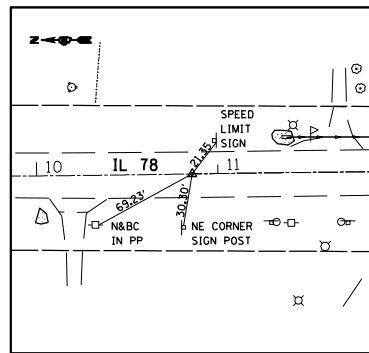
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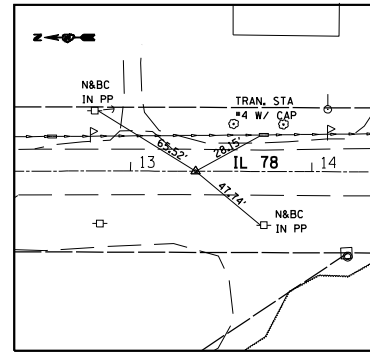
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USER NAME = laughlin-1

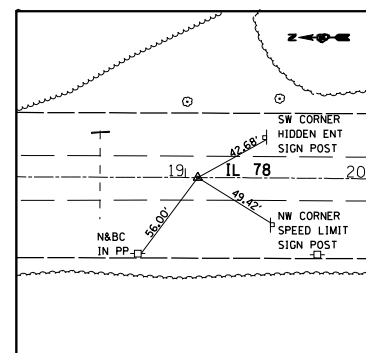
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



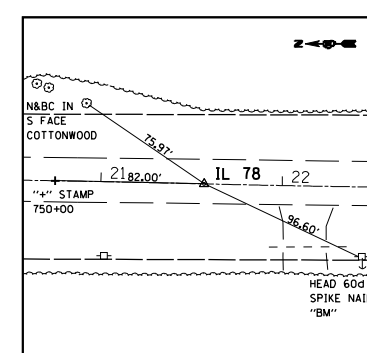
P.R.C. 10+85.82
(SET PK N&BC W/ CHSLD "X")



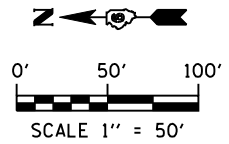
P.T. 13+35.84
(SET PK N&BC W/ CHSLD "X")



P.C. 19+06.84
(SET PK N&BC W/ CHSLD "X")



P.R.C. 21+56.86
(SET PK N&BC W/ CHSLD "X")

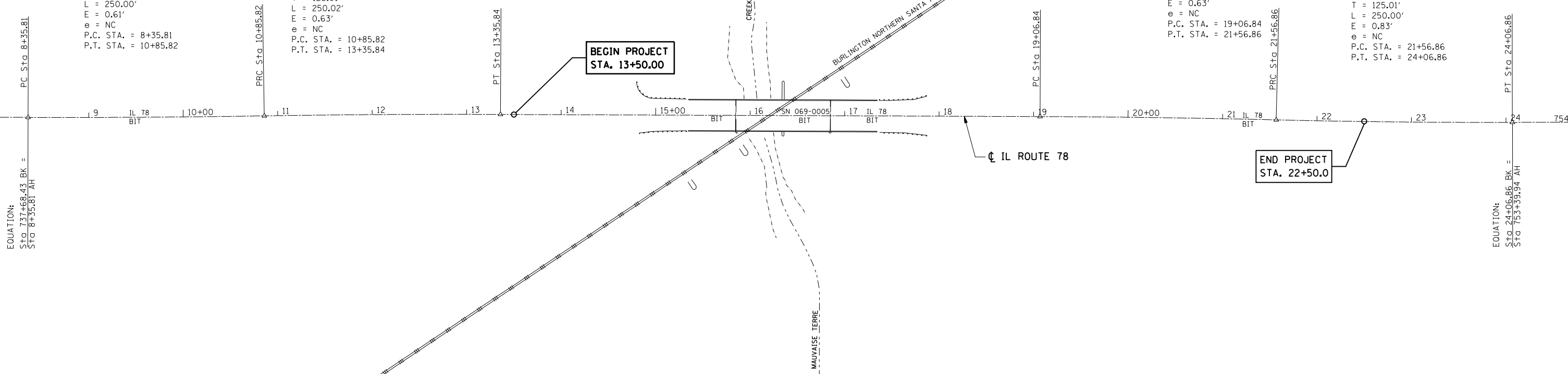


EXIST. CURVE 242
PI STA. = 9+60.82
 $\Delta = 1^\circ 06' 38''$ (LT)
D = $0^\circ 26' 39''$
R = 12,899.31'
T = 125.01'
L = 250.00'
E = 0.61'
e = NC
P.C. STA. = 8+35.81
P.T. STA. = 10+85.82

EXIST. CURVE 241
PI STA. = 12+10.83
 $\Delta = 1^\circ 08' 45''$ (RT)
D = $0^\circ 27' 30''$
R = 12,501.90'
T = 125.01'
L = 250.02'
E = 0.63'
e = NC
P.C. STA. = 10+85.82
P.T. STA. = 13+35.84

EXIST. CURVE 243
PI STA. = 20+31.85
 $\Delta = 1^\circ 08' 45''$ (RT)
D = $0^\circ 27' 30''$
R = 12,501.90'
T = 125.01'
L = 250.02'
E = 0.63'
e = NC
P.C. STA. = 19+06.84
P.T. STA. = 21+56.86

EXIST. CURVE 244
PI STA. = 22+81.87
 $\Delta = 1^\circ 31' 29''$ (LT)
D = $0^\circ 36' 36''$
R = 9,393.69'
T = 125.01'
L = 250.00'
E = 0.83'
e = NC
P.C. STA. = 21+56.86
P.T. STA. = 24+06.86



EQUATION:
STO 737+68.43 BK =
STO 8+35.81 AH

EQUATION:
STO 24+06.86 BK =
STO 753+39.94 AH

BM *37: STA. 15+34.0, 17.7' RT
CHISLED "G" IN NW
WINGWALL OF SN 069-0005
ELEV. = 562.14

BM *24-100: STA. 734+85.6, 38.4' LT
A 60d NAIL IN PP ON E
SIDE OF IL 78 ±3310' N OF
OAK STEET, JACKSONVILLE
ELEV. = 596.62

BM *24-101: STA. 22+44.2, 39.9' RT
A 60d NAIL IN PP ON W
SIDE OF IL 78 ±1600' N OF
OAK STEET, JACKSONVILLE
ELEV. = 558.01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

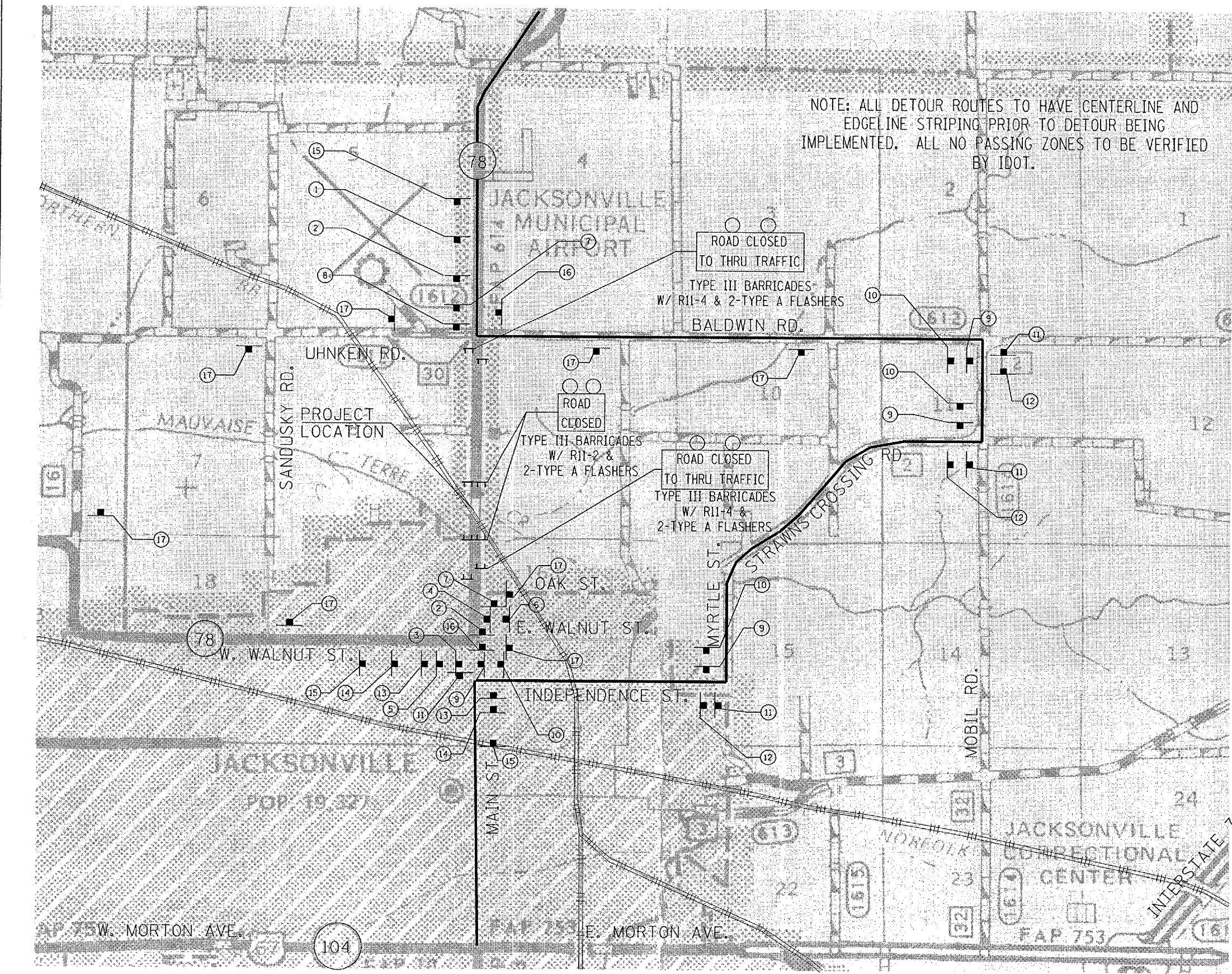
ALIGNMENT, TIES, AND BENCHMARKS

DATE: 3/13/07
DRAWN BY JCW
CHECKED BY JRB

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE: ALL DETOUR ROUTES TO HAVE CENTERLINE AND EDGELINE STRIPING PRIOR TO DETOUR BEING IMPLEMENTED. ALL NO PASSING ZONES TO BE VERIFIED BY IDOT.



- 1 [Sign: Detour 1500 FT] W20-2
- 2 [Sign: Road Closed Ahead] W20-3
- 3 [Sign: Road Closed Ahead] W20-3
- 4 [Sign: Road Closed Ahead] W20-3
- 5 [Sign: Road Construction Ahead] W20-1
- 6 [Sign: Road Construction Ahead] W20-1
- 7 [Sign: Road Closed 500 FT] W20-2
- 8 [Sign: Detour South] M4-8, M3-1, ILLINOIS 78, M1-1100, M6-1(L)
- 9 [Sign: Detour South] M4-8, M3-1, ILLINOIS 78, M1-1100, M6-1(R)
- 10 [Sign: Detour South] M4-8, M3-1, ILLINOIS 78, M1-1100, M5-1(R)
- 11 [Sign: Detour North] M4-8, M3-1, ILLINOIS 78, M1-1100, M5-1(L)
- 12 [Sign: Detour North] M4-8, M3-1, ILLINOIS 78, M1-1100, M5-1(L)
- 13 [Sign: Detour North] M4-8, M3-1, ILLINOIS 78, M1-1100, M6-1(R)
- 14 [Sign: Detour North] M4-8, M3-1, ILLINOIS 78, M1-1100, M5-1(R)
- 15 [Sign: Illinois Route 78 Bridge Closed] M3-1
- 16 [Sign: End Detour] M4-6, M4-8, ILLINOIS 78, M1-1100
- 17 [Sign: Local Traffic Only]

NOTE: ALL SIGNS SHALL HAVE A MINIMUM OF 6" LETTERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC
 DETOUR PLAN

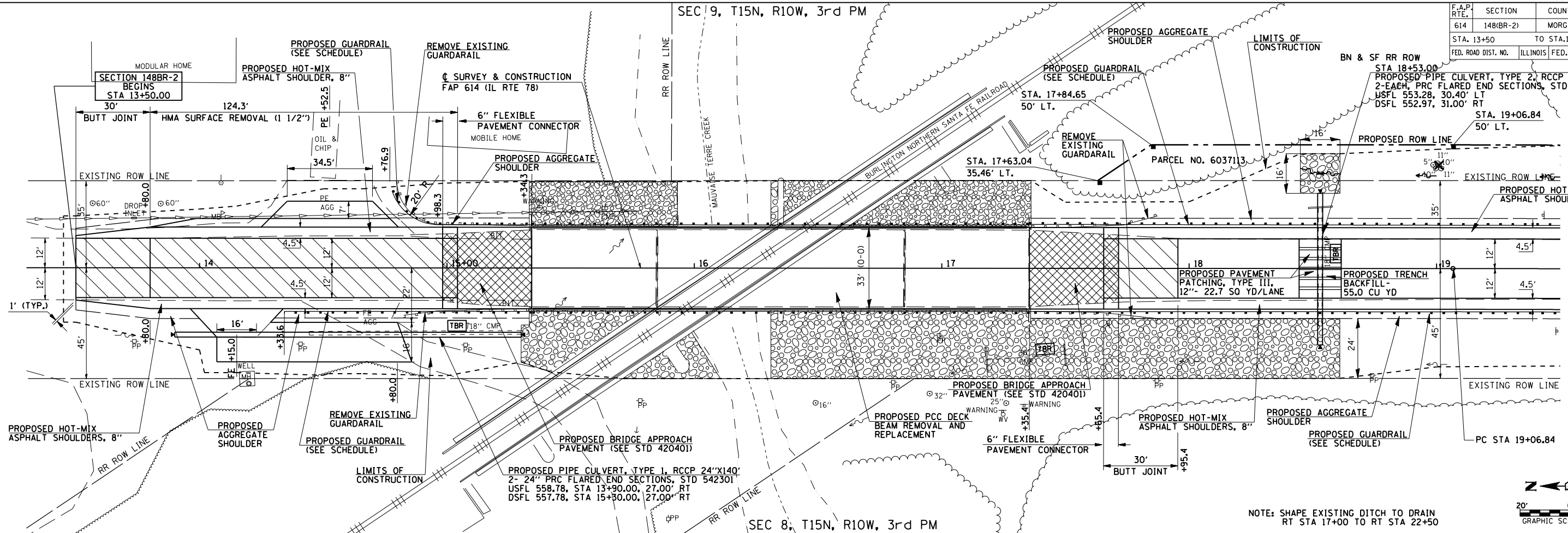
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 USER NAME: jbaugh

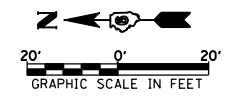
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	13
STA. 13+50 TO STA. 19+50		ILLINOIS FED. AID PROJECT		

SEC 9, T15N, R10W, 3rd PM

SEC 8, T15N, R10W, 3rd PM



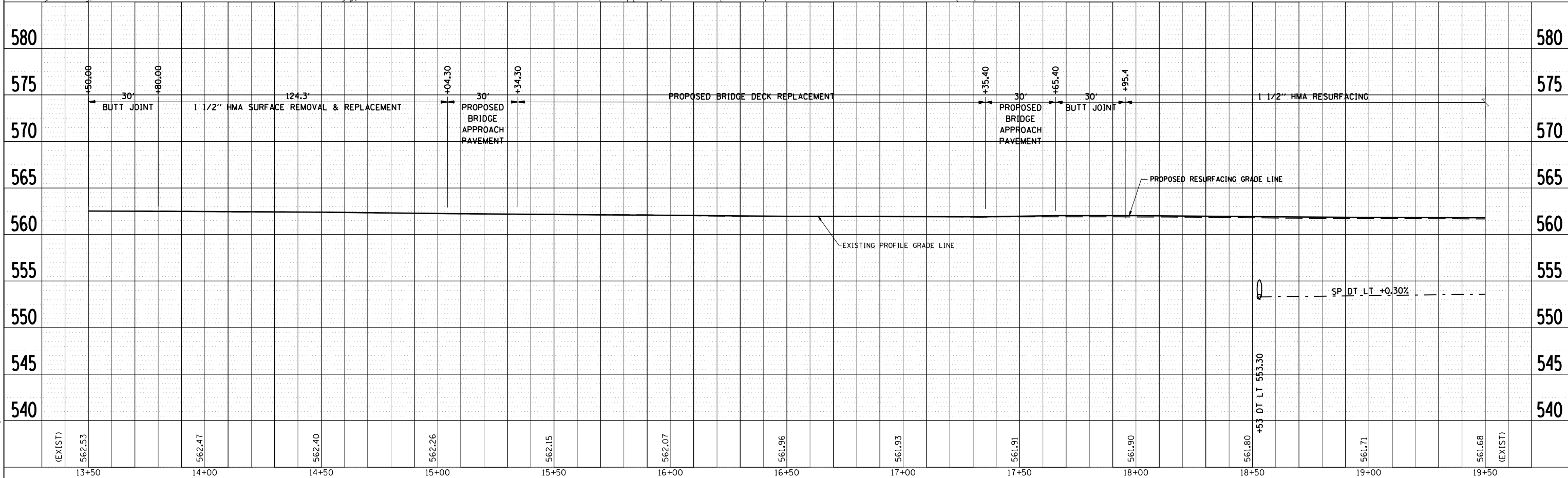
NOTE: SHAPE EXISTING DITCH TO DRAIN RT STA 17+00 TO RT STA 22+50



DATE	BY

DATE	BY

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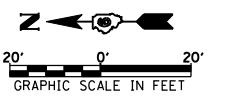
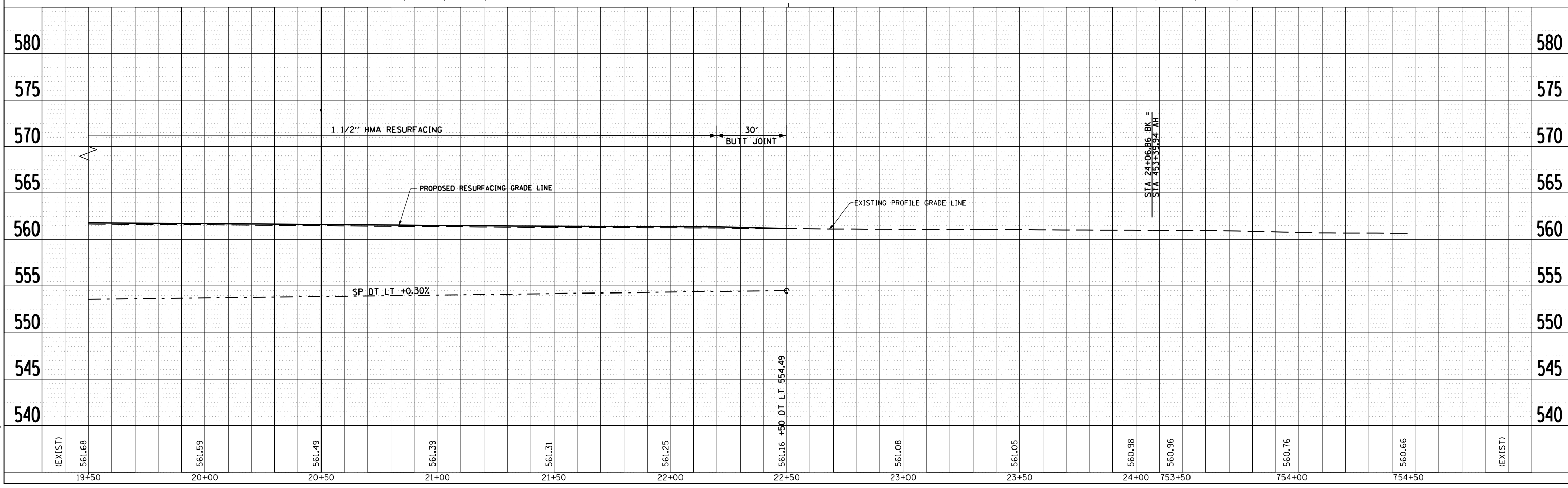
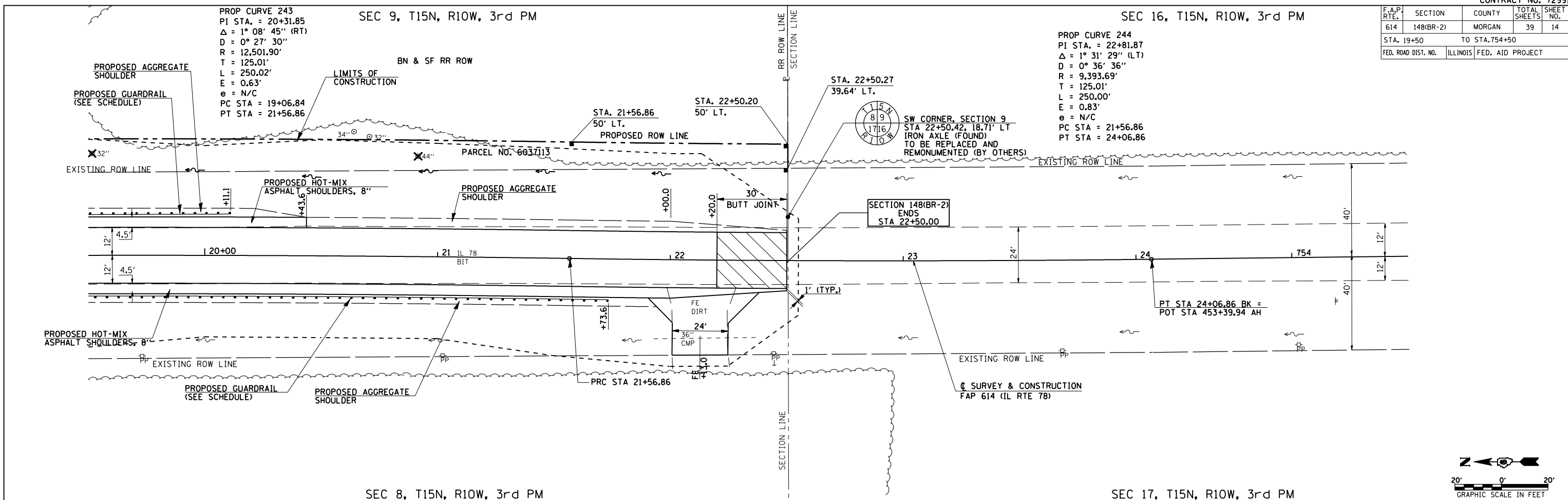
FAP 614 (IL 78) STA 13+50 TO STA 19+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	14
STA. 19+50		TO STA. 754+50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAYS CHECKED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	BY		
	NO.		

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B.M.:
Chiseled "□" in NW Wingwall of Str. No. 069-0005
at Station 15+34, 17.7' Rt.
NAVD 88 = 562.14 Ft.

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 614	*	MORGAN	39	15

FLR. ROAD DIST. NO. 7 ILLINOIS PROJECT

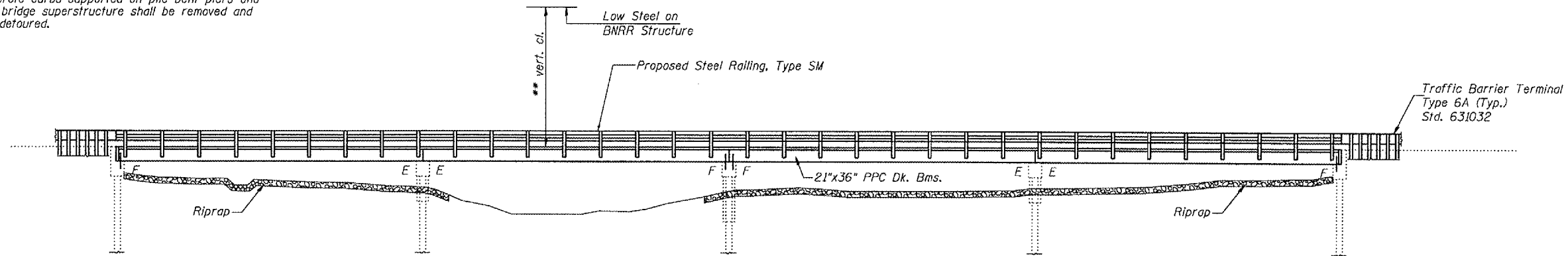
*148BR-2 CONTRACT NO. 72991

EXISTING STRUCTURE:

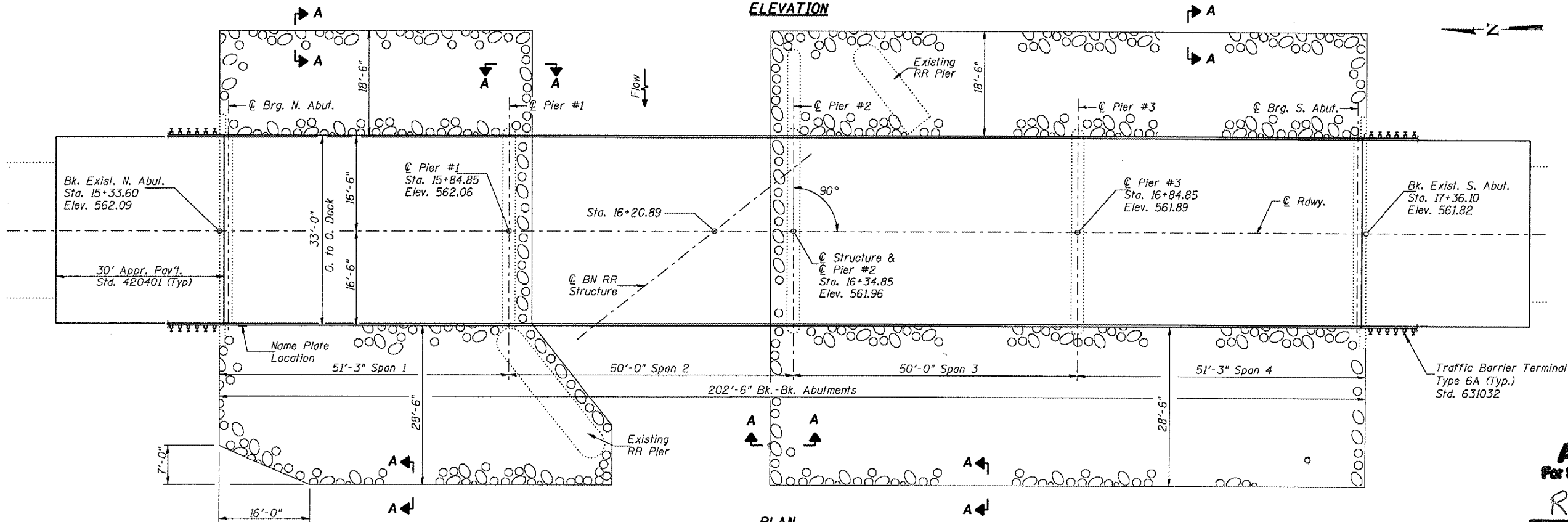
SN 069-0005 Built in 1927 and reconstructed in 1978. A four span 21" deep prestressed concrete deck beam superstructure, 202'-6" back to back abutments and 33'-0" O. to O. deck width with steel rails and concrete curbs supported on pile bent piers and abutments. The existing bridge superstructure shall be removed and replaced. Traffic to be detoured.

No Salvage

** ±13'-8" clearance to be checked in the field by the Engineer.



ELEVATION



PLAN

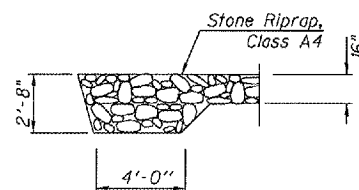
INDEX OF SHEETS

1. General Plan
2. General Notes & Bill of Material
3. Superstructure Details
4. Steel Railing, Type SM With HMA Wearing Surface
5. Rail Post Spacing, HMA WS Profile & Substructure Sections
6. Abutments
7. Pier 1 Repairs
8. Pier 2 Repairs
9. Pier 3 Repairs
10. Piers 1 & 3
11. Pier 2
12. Preformed Joint Detail

APPROVED
For Structural Adequacy Only

Ralph E. Anderson
Engineer of Bridges & Structures

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN



SECTION A-A

NOTE:
See Roadway plans for profile grade information.

LOADING HS20-44

No Allowance for future wearing surface.

DESIGN SPECIFICATIONS

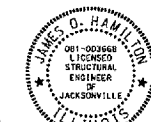
2002 AASHTO

DESIGN STRESSES
FIELD UNITS

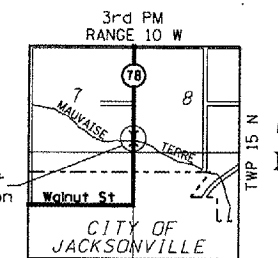
$f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 5,000$ p.s.i.
 $f'_{ci} = 4,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($\frac{1}{2}$ " ϕ low relaxation strands)
 $f'_{si} = 201,960$ p.s.i. ($\frac{1}{2}$ " ϕ low relaxation strands)



James O. Hamilton
8/24/2007
License Expires 11/30/2008



LOCATION SKETCH

GENERAL PLAN
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS

Rev: _____ Date: _____

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E.) shall be epoxy coated.

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

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

Repair of the substructure shall be completed prior to placement of the new deck beams.

If the Contractor's procedure for existing beam removal or placement of new beams involves placement of heavy equipment on the new or existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Superstructures.

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

The top surface of the beams shall be finished in accordance with Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Removal of Existing Superstructures	Each	1	-	1
Erecting Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	6,627	-	6,627
Reinforcement Bars, Epoxy Coated	Pound	-	190	190
Steel Railing, Type SM	Foot	405	-	405
Hot-Mix Asphalt Surface Course, Mix "C", NSO	Ton	76	-	76
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	-	58	58
Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.	-	24	24
Name Plates	Each	-	-	1
Preformed Joint Seal 2 1/2"	Foot	66	-	66
Asbestos Bearing Pad Removal	Each	88	-	88
Concrete Removal	Cu. Yd.	-	0.8	0.8
Stone Dumped Riprap, Class A4 (Special)	Ton	-	-	1085
Waterproofing Membrane System	Sq. Yd.	738	-	738
Portland Cement Mortar Fairing Course	Foot	2008	-	2008

STATION 16+34.85
 REBUILT 200 BY
 STATE OF ILLINOIS
 F.A.P. 614 SEC. 148BR-2
 LOADING HS20
 STRUCTURE NO. 069-0005

NAME PLATE
 See Std. 515001

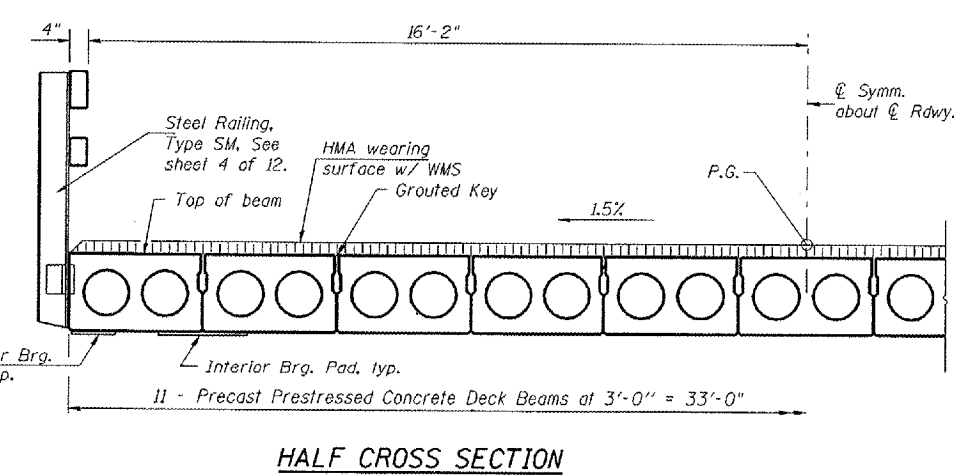
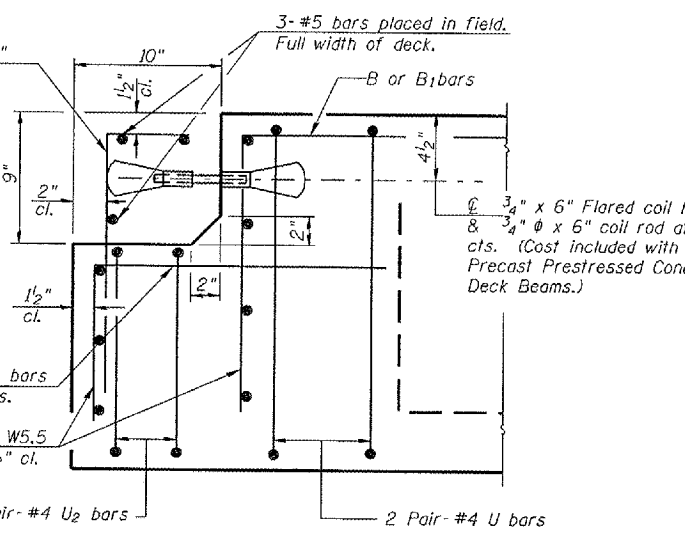
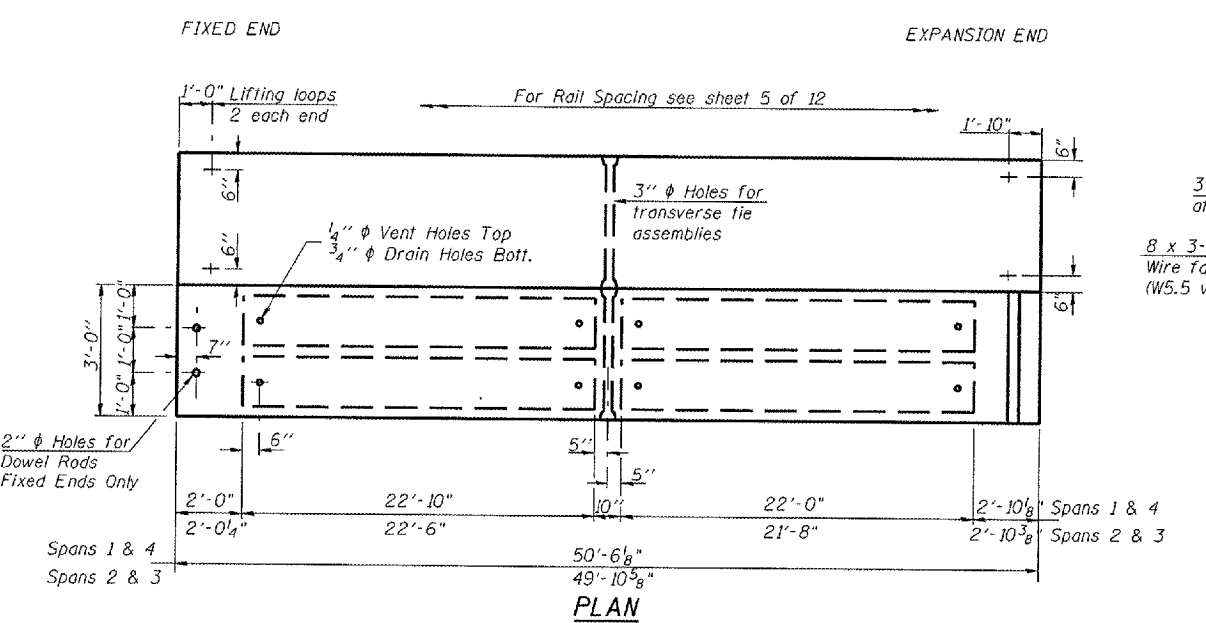
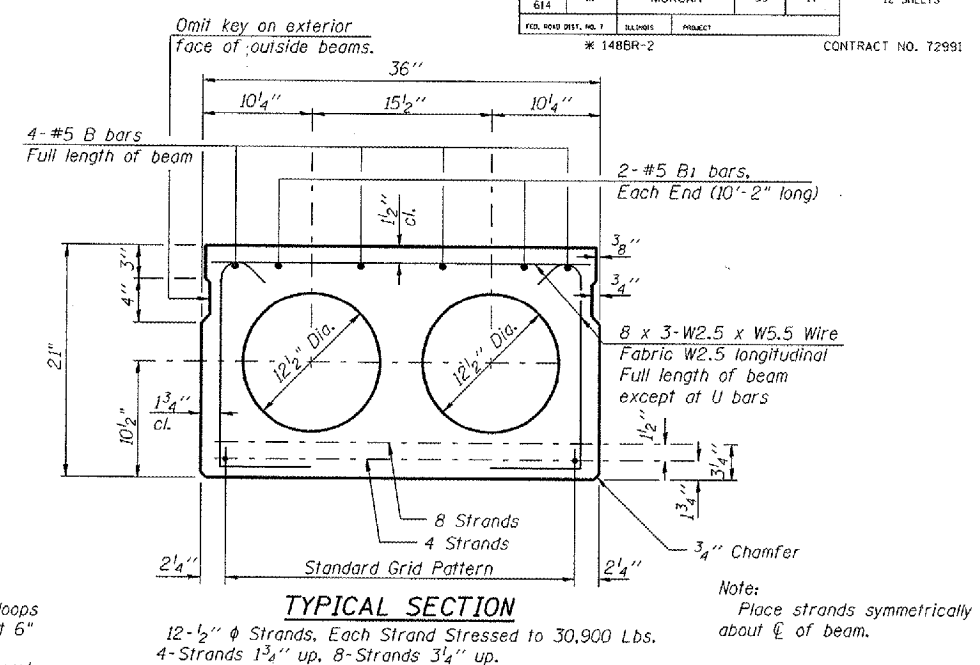
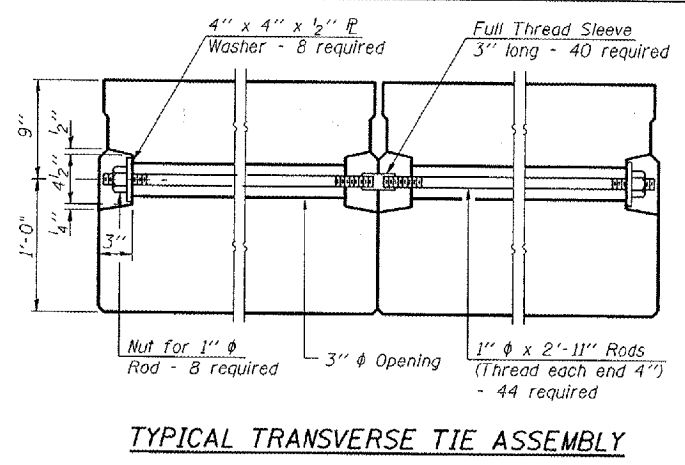
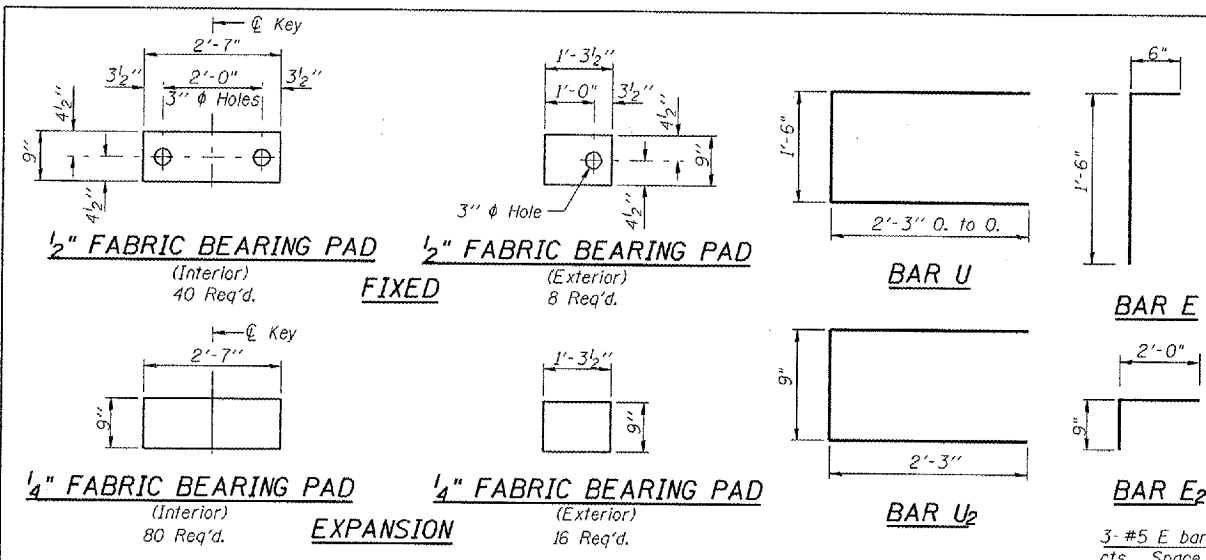
Attach new name plate to back side of 8" rail element. Clean and re-locate existing name plate adjacent to new name plate. Cost included in the cost of "Name Plates".

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

GENERAL NOTES & BILL OF MATERIAL
ILLINOIS ROUTE 78 OVER MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005

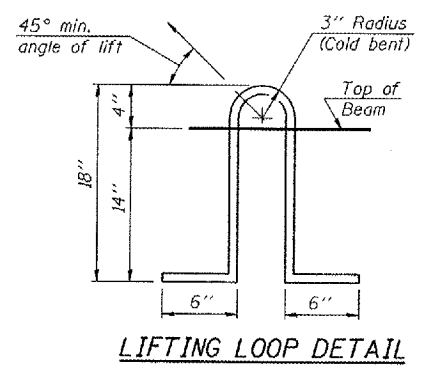
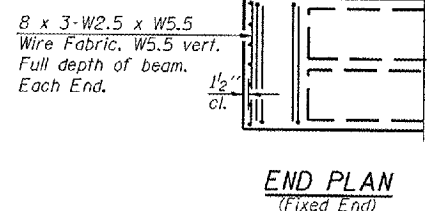
HUTCHISON ENGINEERING, INC.
 JACKSONVILLE, ILLINOIS

Rev: _____ Date: _____



Concrete for blockout shall be Class BS concrete. Concrete in blockout shall be included in the cost of Erecting PPC Deck Beams.

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN



NOTES

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

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

Non prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

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

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

Required Release Strength, 1'ci, shall be 4,000 p.s.i.

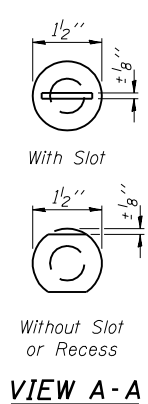
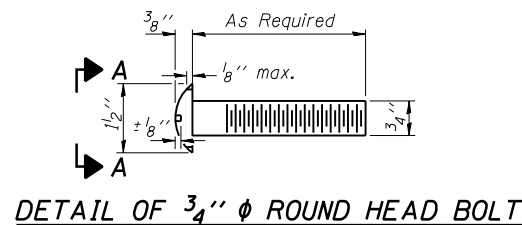
Rail post anchor devices shall be cast into outside face of exterior beams as specified elsewhere.

BILL OF MATERIAL

Item	Unit	Quantity
Erecting Precast Prestressed Conc. Deck Bms. (21" Depth)	Sq. Ft.	6,627

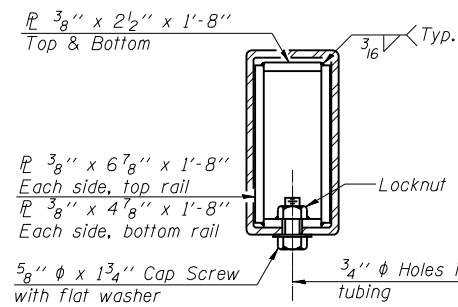
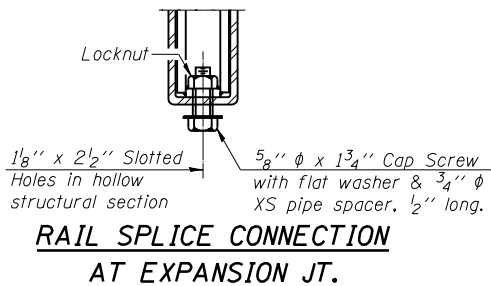
SUPERSTRUCTURE DETAILS
ILLINOIS ROUTE 78 OVER MAUVOISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005

HUTCHISON ENGINEERING, INC.
 JACKSONVILLE, ILLINOIS
 Rev: _____ Date: _____

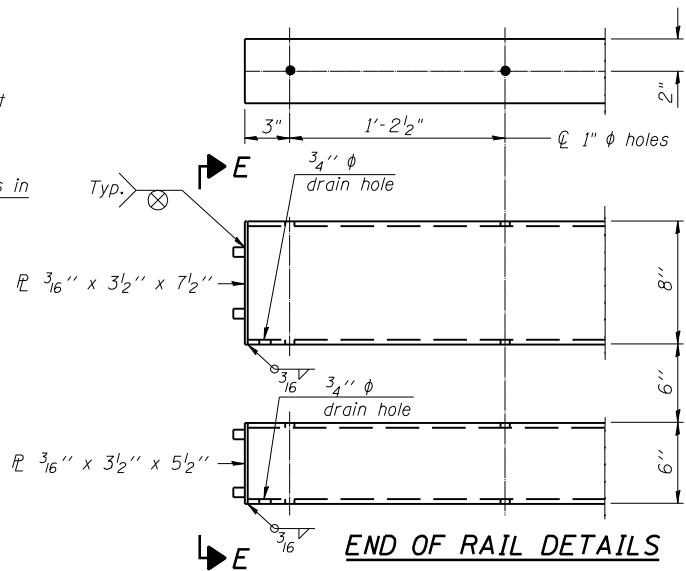


4-3/4" ϕ x 6" Round Head Bolts
(With slot or approved recess in head) with locknut & flat washer.
7/8" ϕ holes in hollow structural section may be drilled in the field.

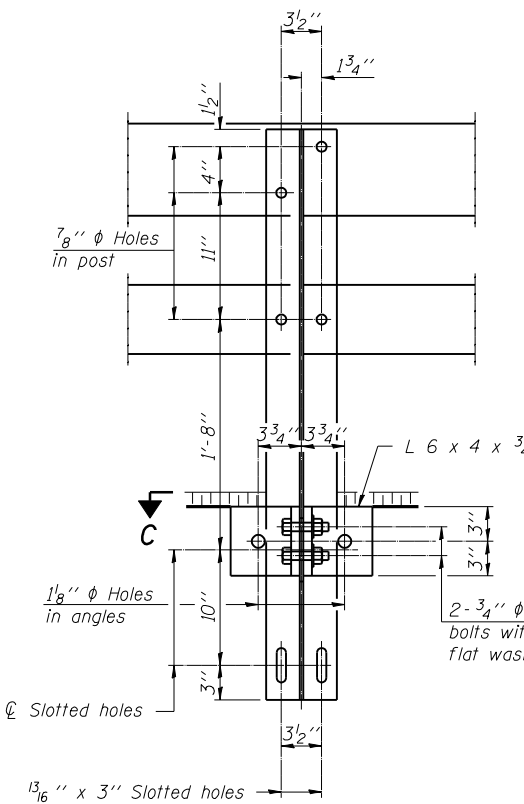
FOR RAIL POST SPACING SEE SH.#5 OF 12



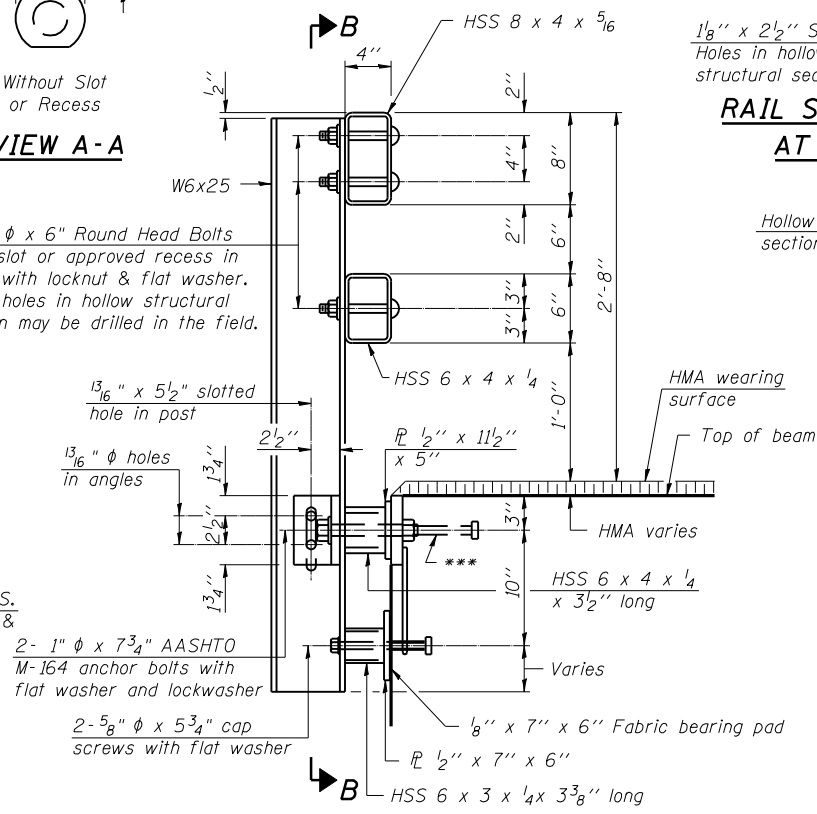
SECTION AT RAIL SPLICE



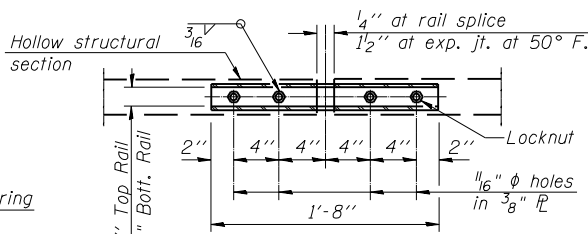
END OF RAIL DETAILS



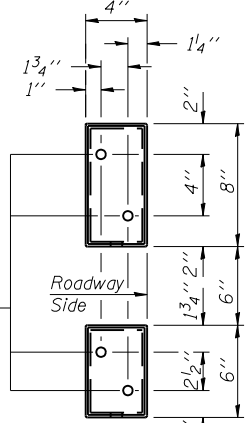
SECTION B-B



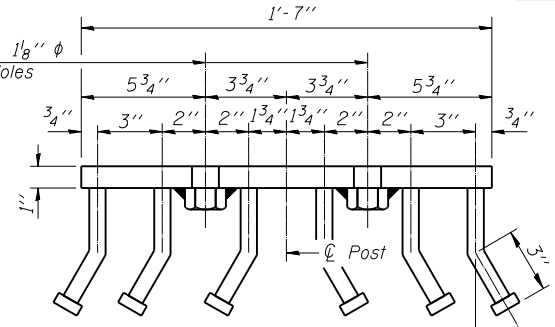
SECTION AT RAIL POST



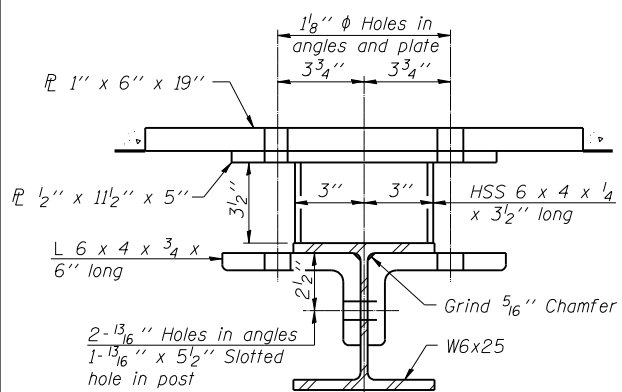
PLAN-BOTT. SPLICE TYPICAL



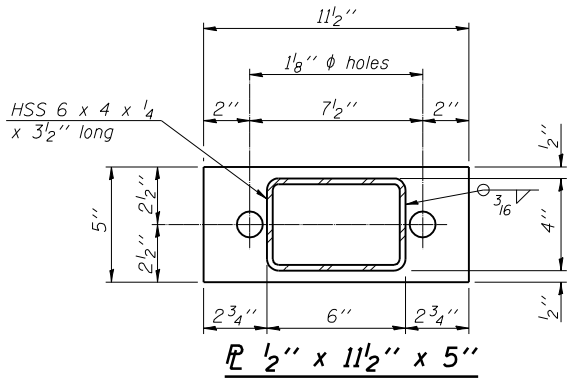
VIEW E-E



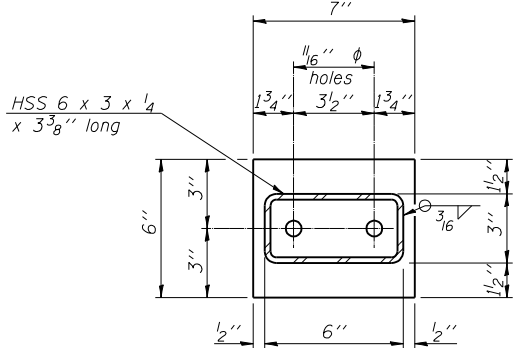
VIEW D-D



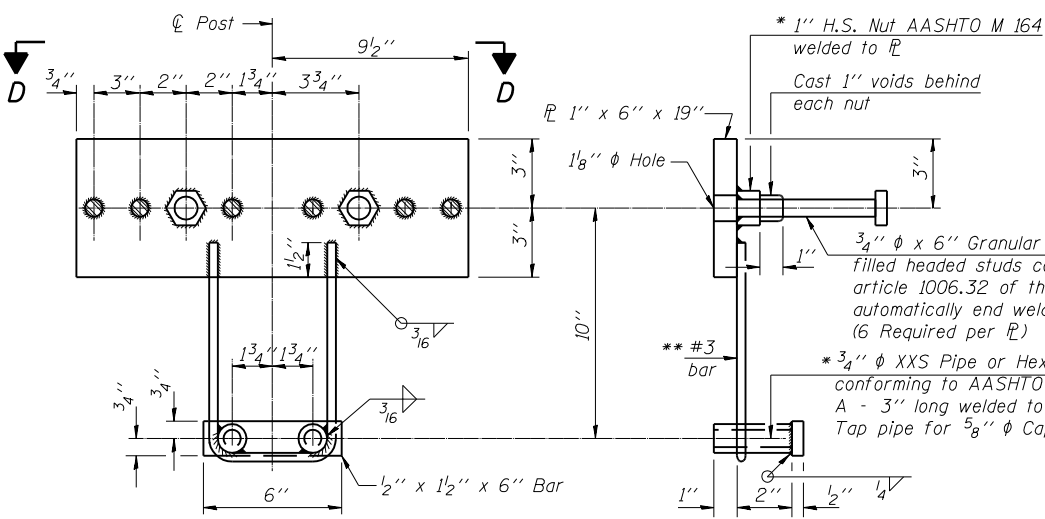
SECTION C-C



1/2" x 11 1/2" x 5"



1/2" x 7" x 6"



ANCHOR DEVICE

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.
All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.
Rail post anchor devices shall be supplied with the PPC Deck Beams. Cost included with PPC Deck Beams.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	405

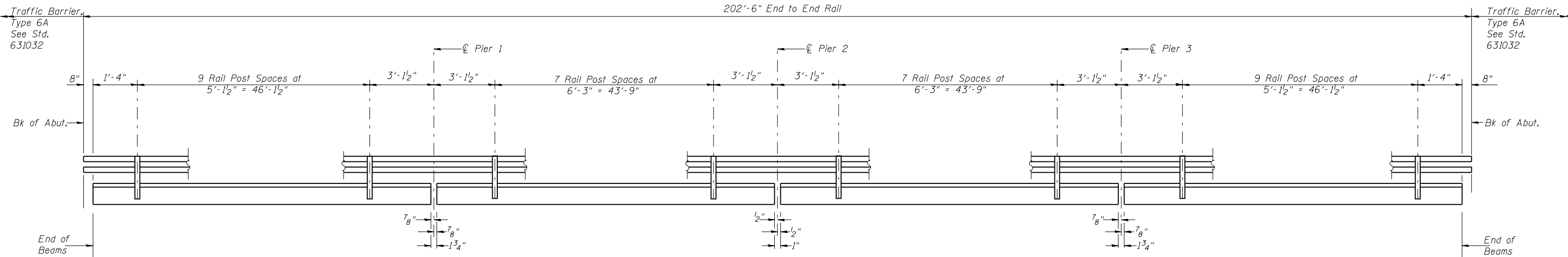
STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT SURFACE
ILLINOIS ROUTE 78 OVER MAUVAISE TERRE CREEK
F.A.P 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS

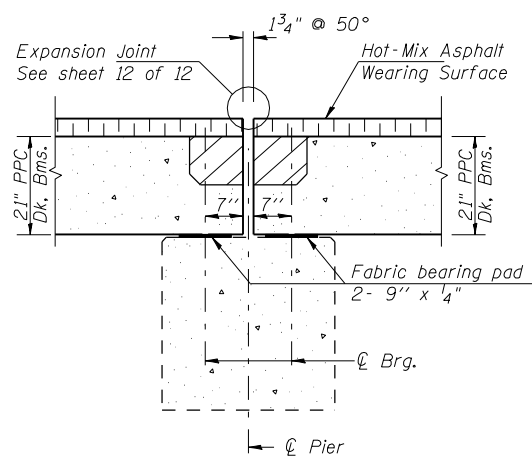
Rev: _____ Date: _____

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

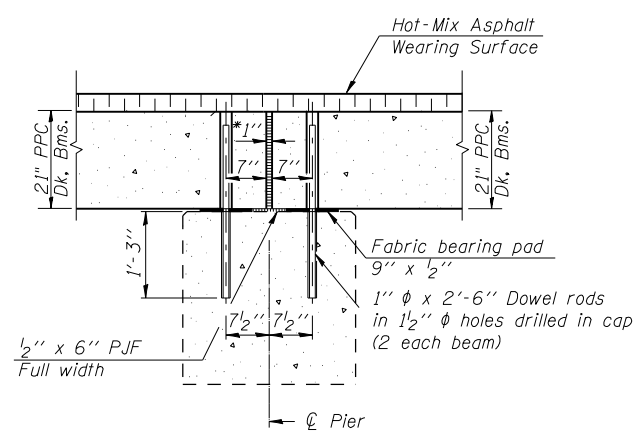
* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



RAIL POST SPACING

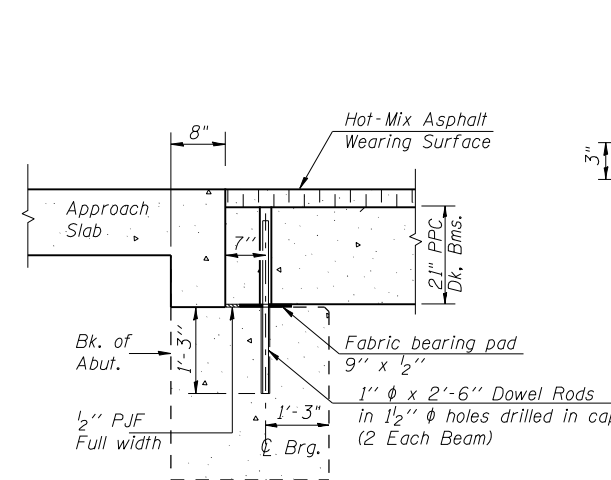


SECTION THRU EXP. PIERS 1 & 3

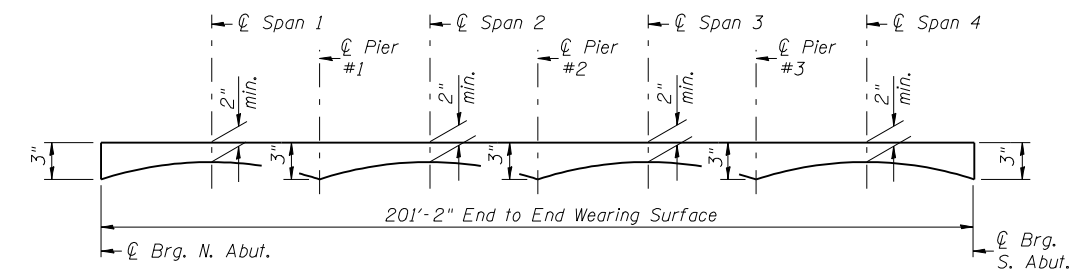


SECTION THRU FIXED PIER 2

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



SECTION THRU ABUTMENT



HOT-MIX ASPHALT WEARING SURFACE PROFILE
(Includes Waterproofing Membrane System)

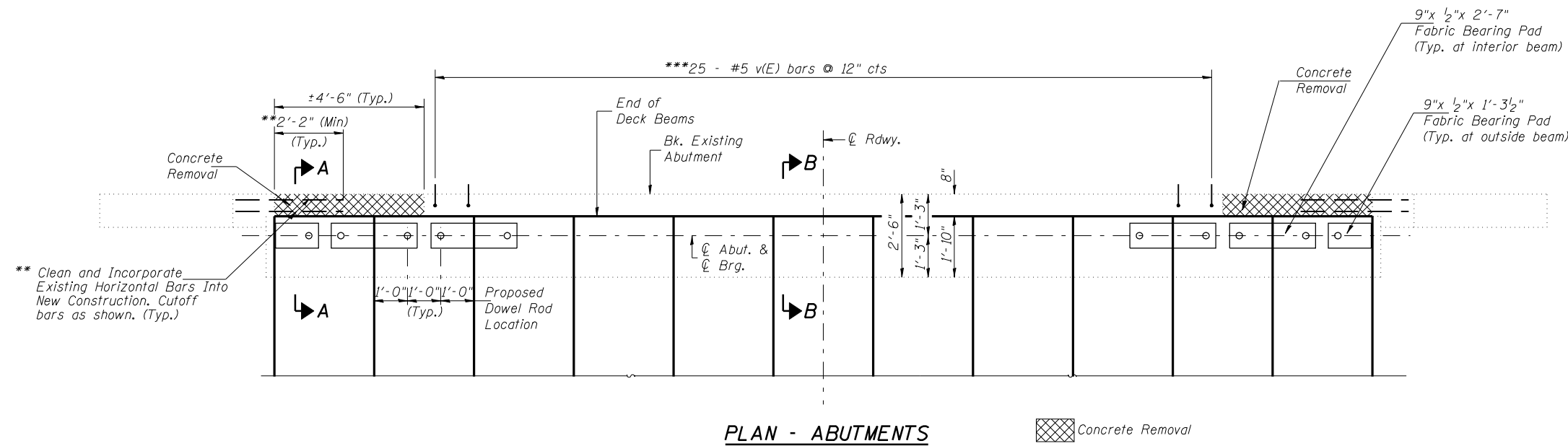
Notes :

Existing dowel rods shall be burned off flush with top of existing concrete, ground smooth and sealed with epoxy. Cost included in cost of removal of existing superstructures. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. All horizontal dimensions are at right angles to beam ends. See sheet 3 of 12 for bearing pad details. Hatched areas to be poured after beams have been erected and joints grouted. Ends of beams shall be aligned at the expansion joints. Any lineal variation in beam lengths shall be placed at the fixed joint.

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

**RAIL POST SPACING,
HMA WS PROFILE &
SUBSTRUCTURE SECTIONS
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005**

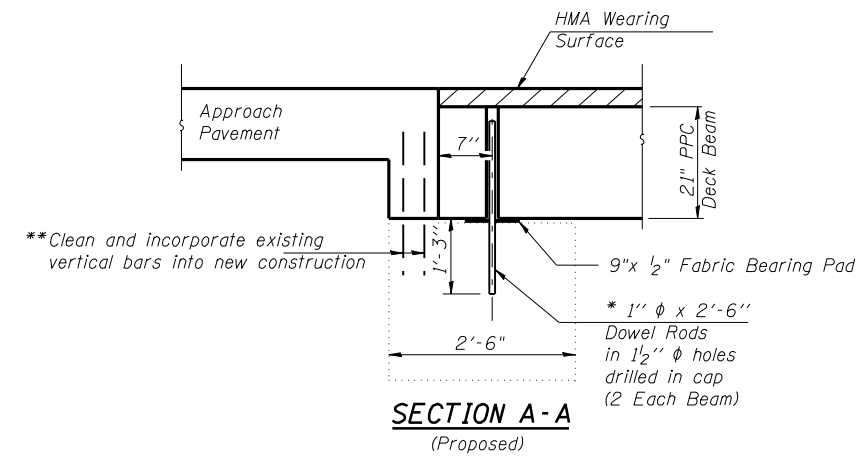
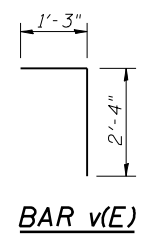
HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Rev: _____ Date: _____



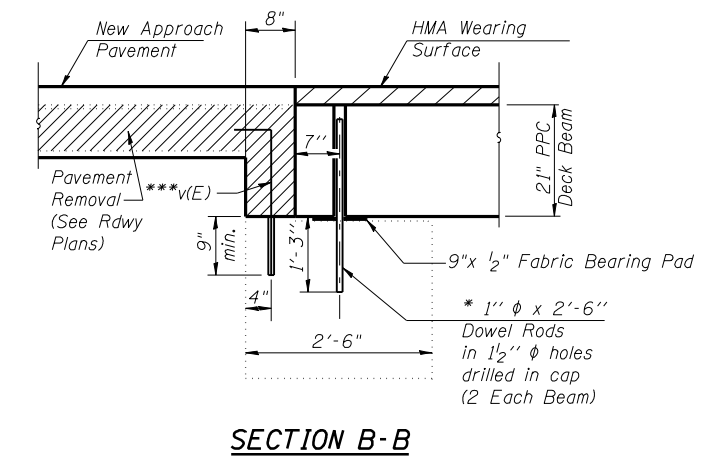
** Clean and Incorporate Existing Horizontal Bars Into New Construction. Cutoff bars as shown. (Typ.)

PLAN - ABUTMENTS

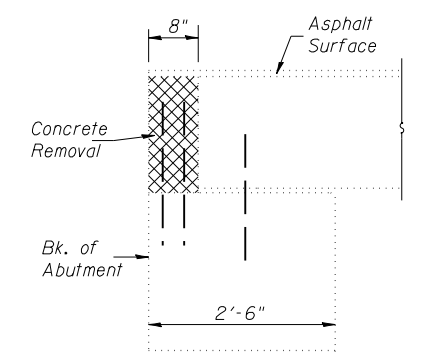
Concrete Removal



SECTION A-A
(Proposed)



SECTION B-B



SECTION A-A
(Existing)

***Epoxy grout bars v(E) in 9" min. drilled holes according to Section 584 of the Standard Specifications.

BILL OF MATERIAL
TWO ABUTMENTS

Bar	No.	Size	Length	Shape
v(E)	50	#5	3'-7"	Γ
Concrete Removal			Cu. Yd.	0.8
Reinforcement Bars, Epoxy Coated			Lbs.	190

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

* Existing Dowel Rods shall be burned off flush with the top of existing concrete, ground smooth, and sealed with epoxy. Cost to be included in the cost of Removal of Existing Superstructures. After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

**Existing reinforcement bars extending into new construction shall be cleaned, straightened and incorporated into the new construction. Cost to be included with Concrete Removal.

ABUTMENTS
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005

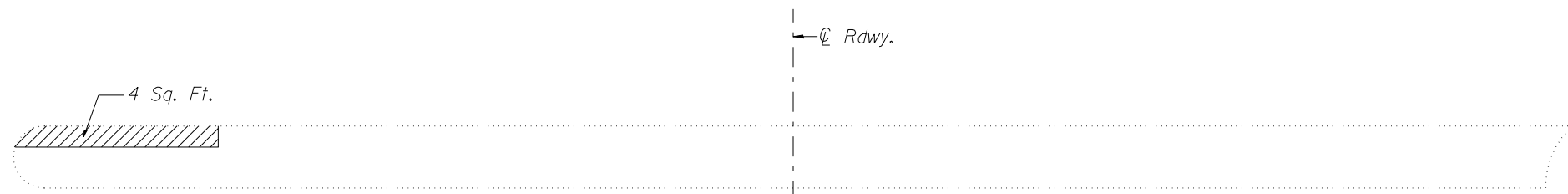
HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS

Rev: _____ Date: _____

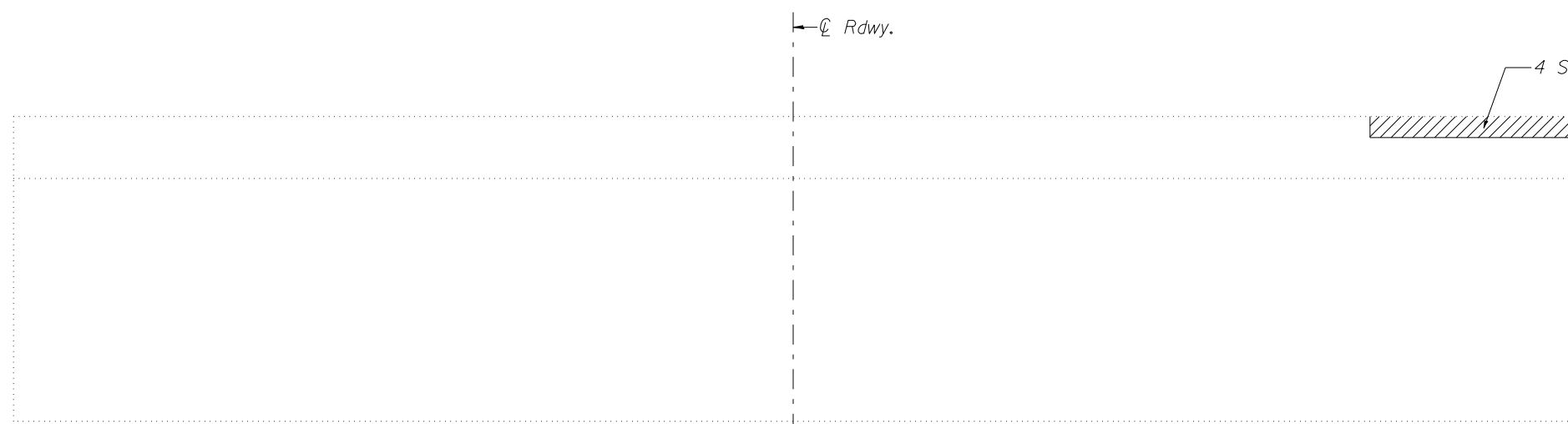
ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 614	*	MORGAN	39	21
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
* 148BR-2				

SHEET NO. 7
12 SHEETS

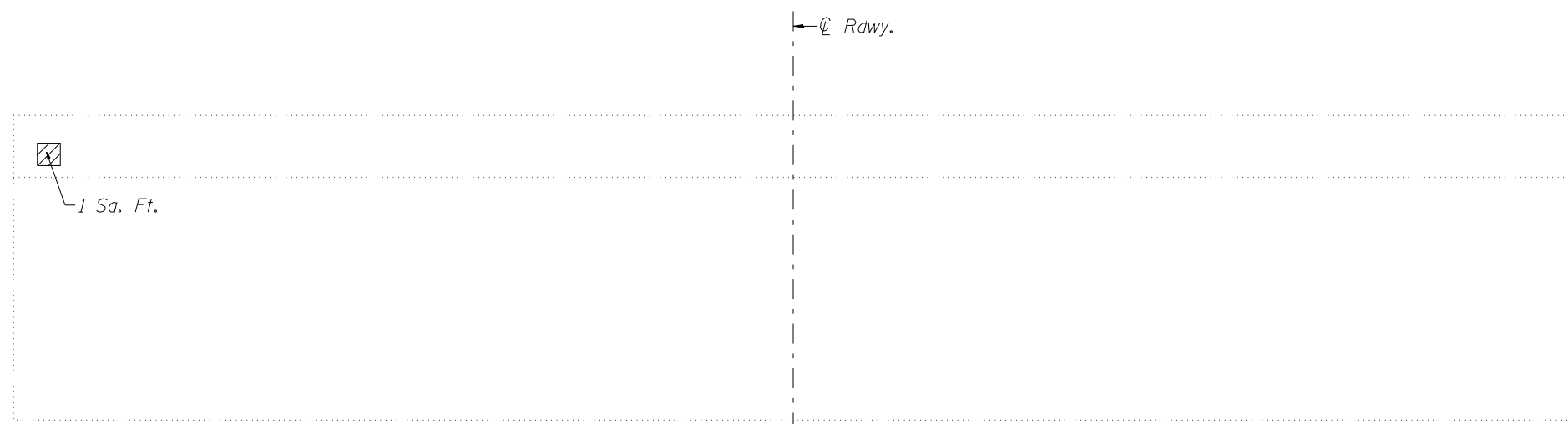
CONTRACT NO. 72991



PLAN



ELEVATION
SOUTH FACE
(Looking North)



ELEVATION
NORTH FACE
(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Structure Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	9

LEGEND

Structure Repair of Concrete (Depth equal to or less than 5")

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

2447-6b007

**PIER 1 REPAIRS
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005**

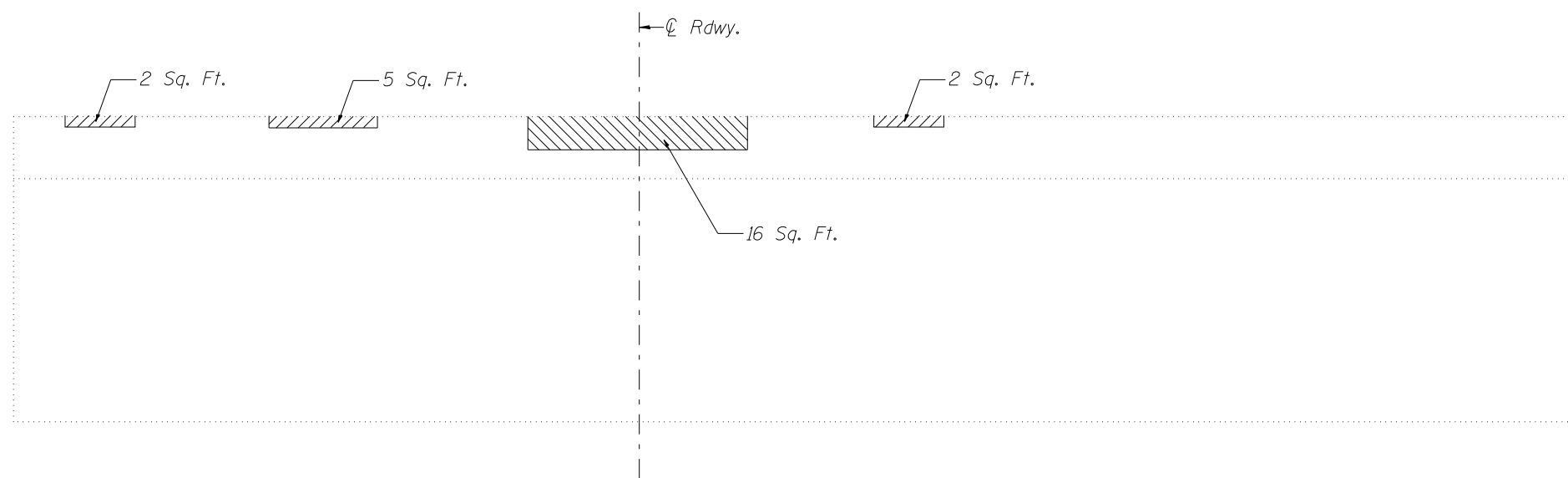
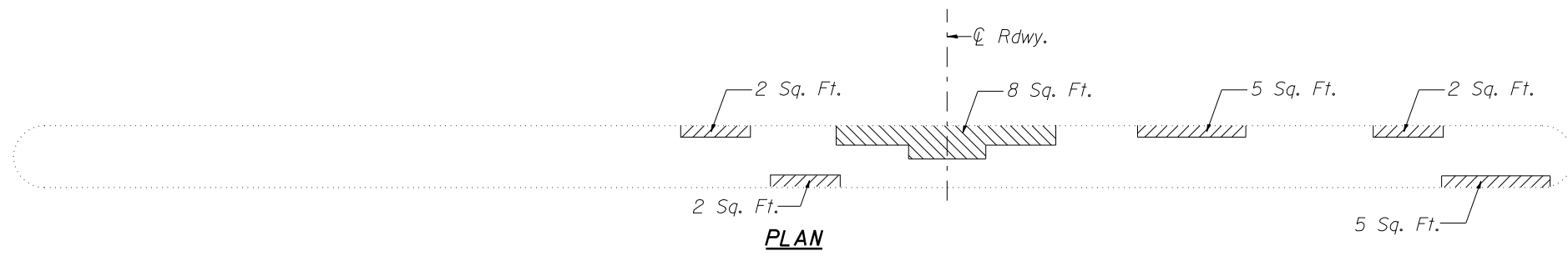
**HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS**

Rev: _____ Date: _____

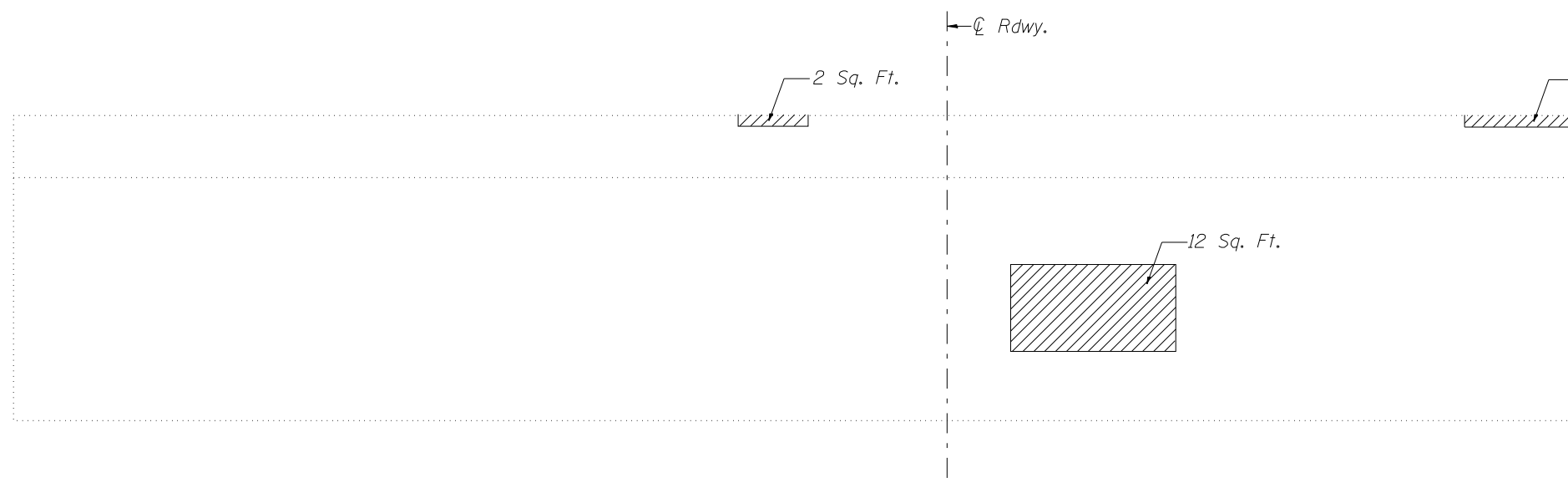
ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 614	*	MORGAN	39	22
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
* 148BR-2				

SHEET NO. 8
12 SHEETS

CONTRACT NO. 72991



**ELEVATION
SOUTH FACE**
(Looking North)



**ELEVATION
NORTH FACE**
(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Structure Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	44
Structure Repair of Concrete (Depth greater than 5")	Sq. Ft.	24

LEGEND

- Structure Repair of Concrete (Depth equal to or less than 5")
- Structure Repair of Concrete (Depth greater than 5")

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

**PIER 2 REPAIRS
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005**

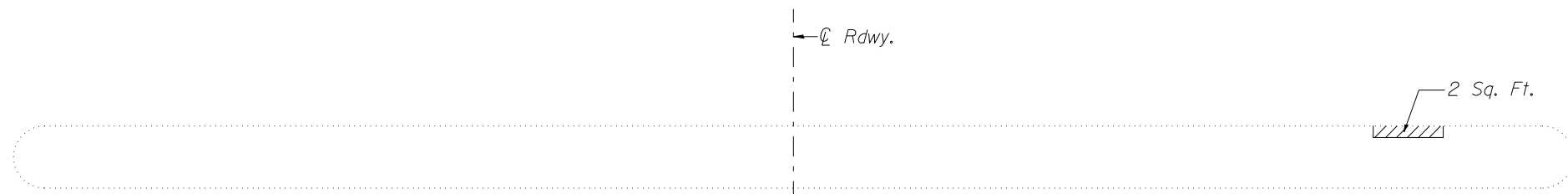
**HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS**

Rev: _____ Date: _____

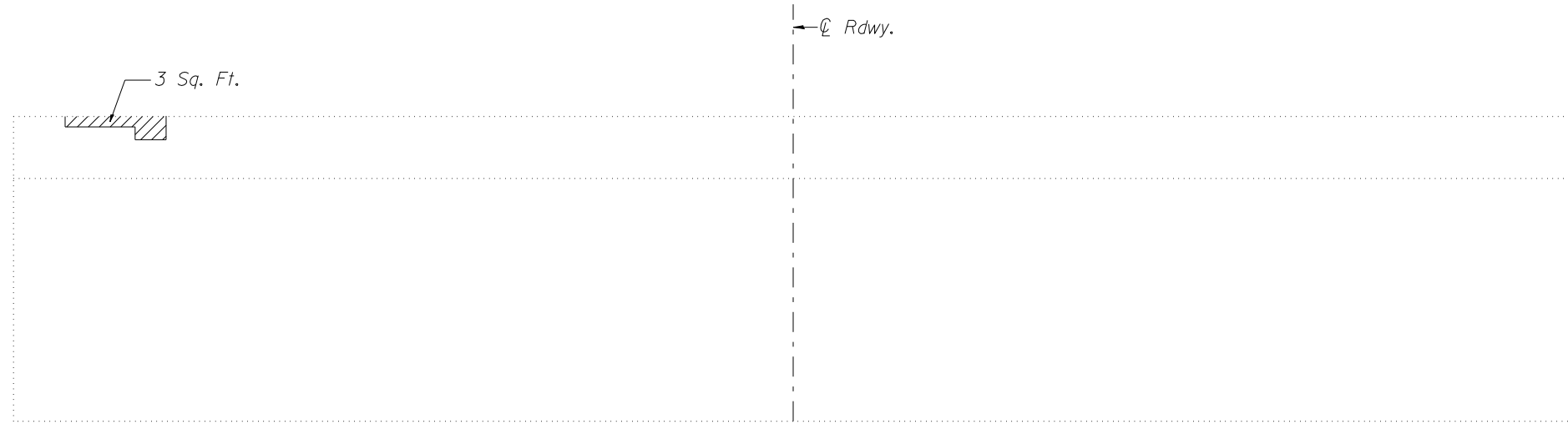
ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 614	*	MORGAN	39	23
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
* 148BR-2				

SHEET NO. 9
12 SHEETS

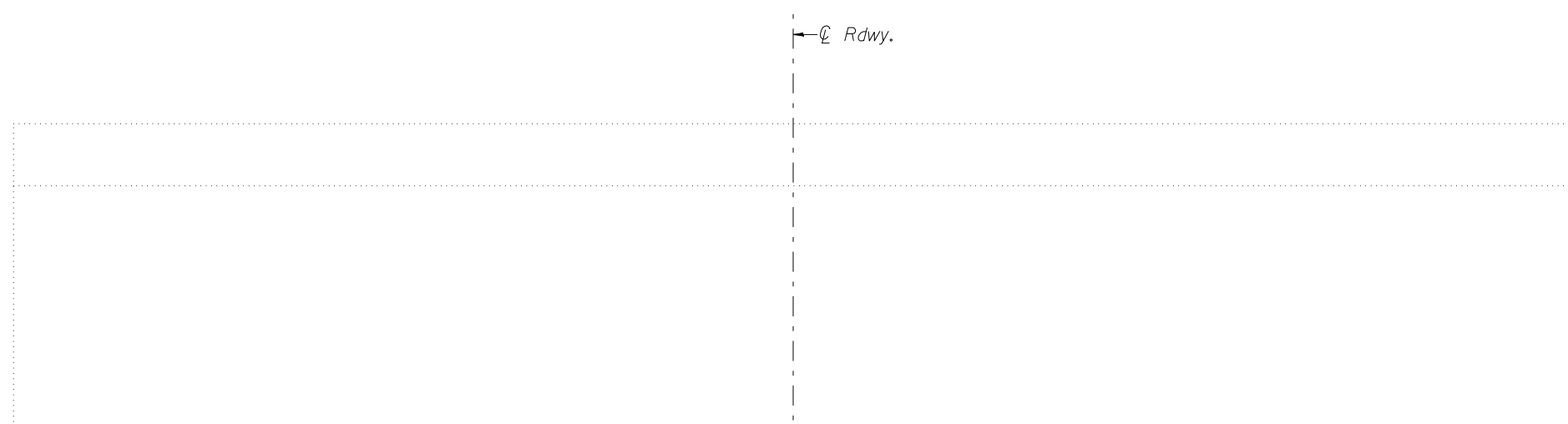
CONTRACT NO. 72991



PLAN



**ELEVATION
SOUTH FACE**
(Looking North)




**ELEVATION
NORTH FACE**
(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Structure Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	5

LEGEND

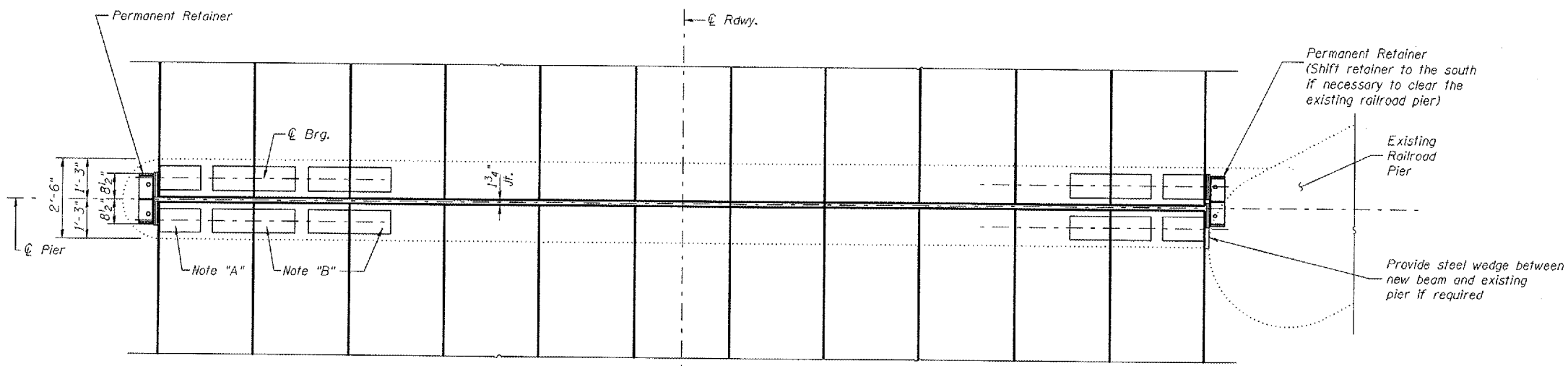
 Structure Repair of Concrete (Depth equal to or less than 5")

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

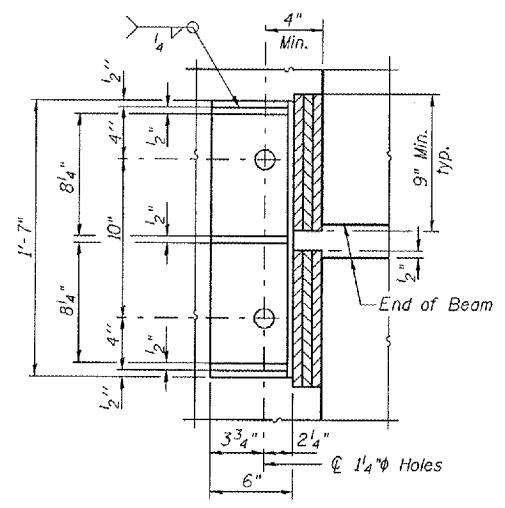
**PIER 3 REPAIRS
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005**

**HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS**

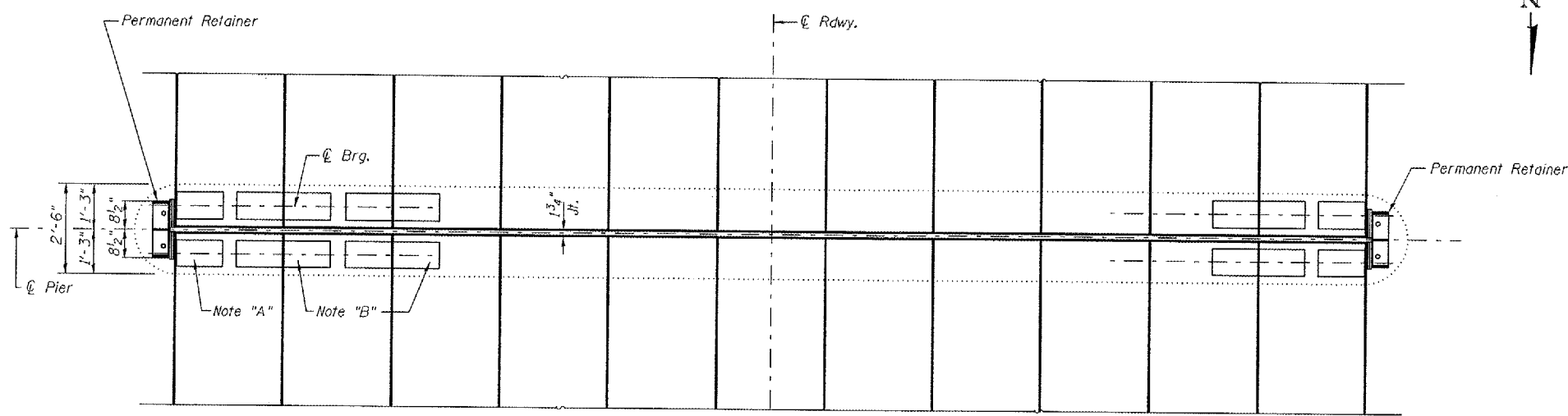
Rev: _____ Date: _____



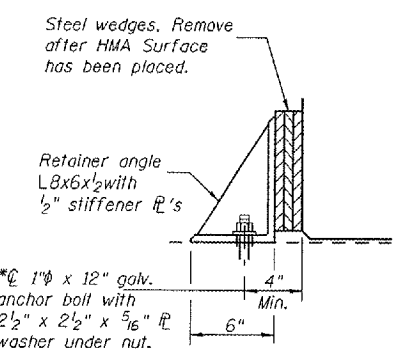
PLAN - PIER 1



PLAN



PLAN - PIER 3



ELEVATION

RETAINER ANGLE DETAIL

Note "A": Fabric Bearing Pad (2) 9"x 1/4" x 1'-3 1/2"
Typical at each outside beam.

Note "B": Fabric Bearing Pad (2) 9"x 1/4" x 2'-7".
Typical at each interior beam except as noted.

Notes:
The permanent retainers and hardware shall be galvanized after shop fabrication accordance to AASHTO M111 ASTM 385.
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.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Cost of retainers, accessories, and galvanizing are included with Erecting Precast Prestressed Concrete Deck Beams.

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

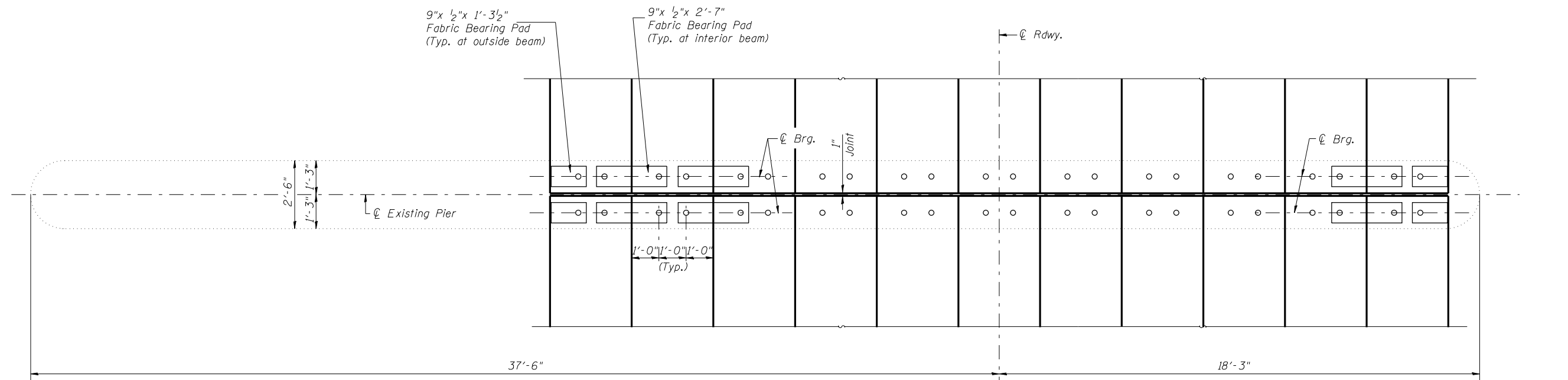
PIERS 1 & 3
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Rev: _____ Date: _____

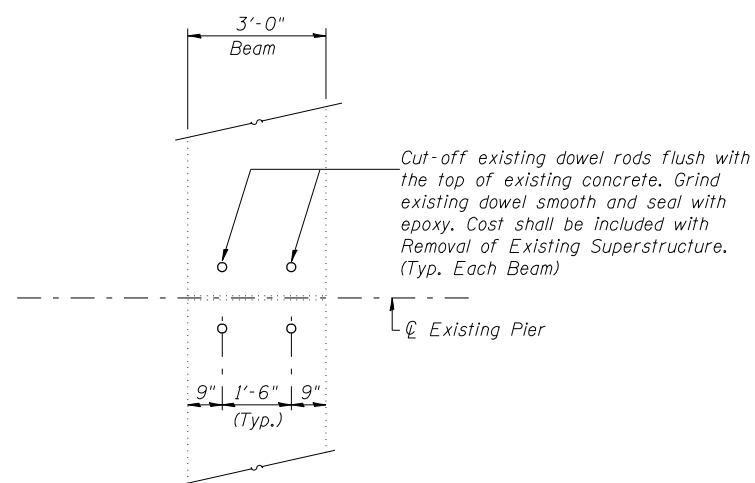
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 614	*	MORGAN	39	25
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		
* 148BR-2				

SHEET NO. 11
12 SHEETS

CONTRACT NO. 72991



PLAN - PIER 2



**PLAN - EXISTING BEAMS
AT PIER 2**

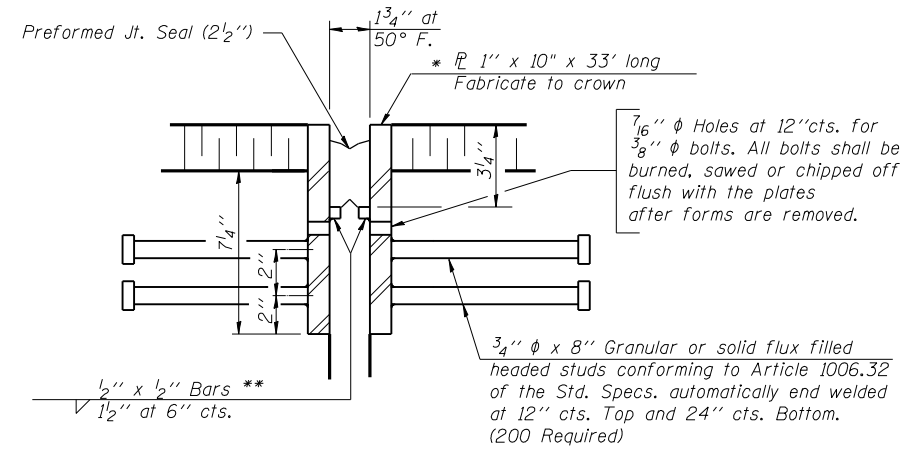
DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

2447-6b011

**PIER 2
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005**

**HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS**

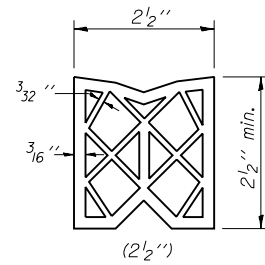
Rev: _____ Date: _____



SECTION THRU EXPANSION JOINT

* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.

** Cut retainer bars in sidewalk or median 6" short of the sidewalk or median face.



PREFORMED JOINT SEAL

BILL OF MATERIAL

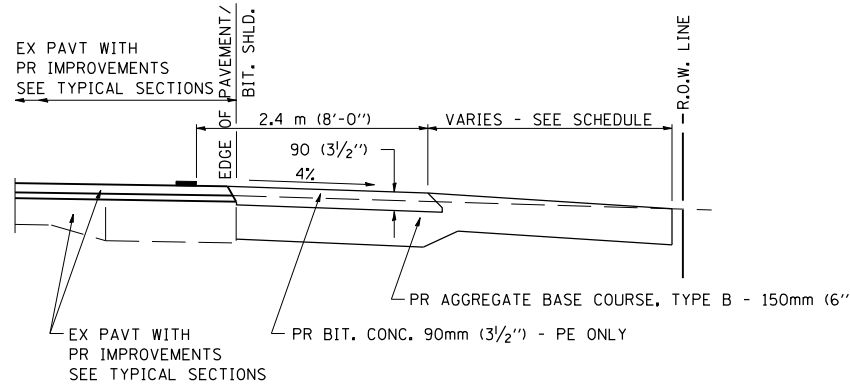
Item	Unit	Total
Preformed Joint Seal 2 1/2"	foot	66

DESIGNED	BAN
CHECKED	JOH
DRAWN	TC/TD
CHECKED	BAN

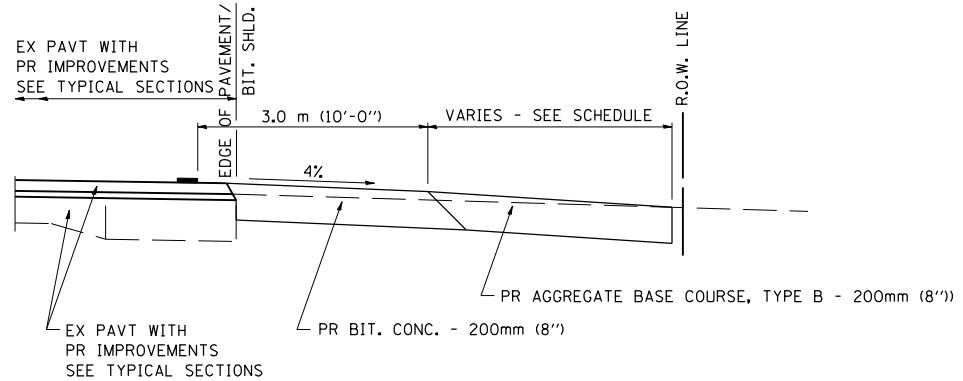
PREFORMED JOINT DETAIL
ILLINOIS ROUTE 78 OVER
MAUVAISE TERRE CREEK
F.A.P. 614 SEC. 148BR-2
MORGAN COUNTY
STATION 16+34.85
STR. NO. 069-0005

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
 Rev: _____ Date: _____

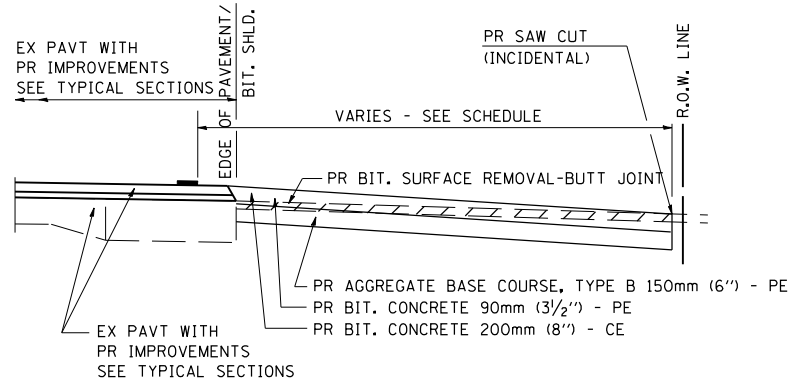
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	27
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



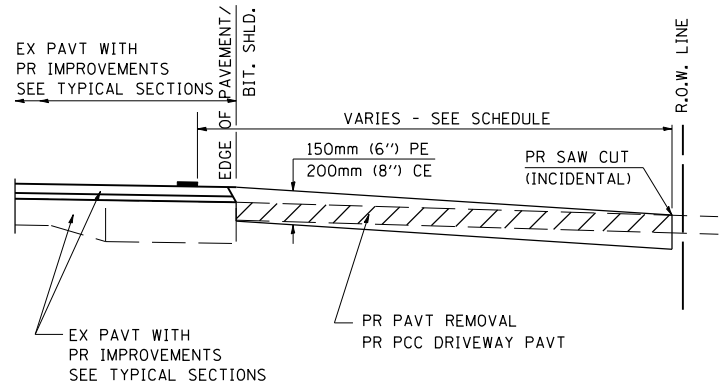
SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



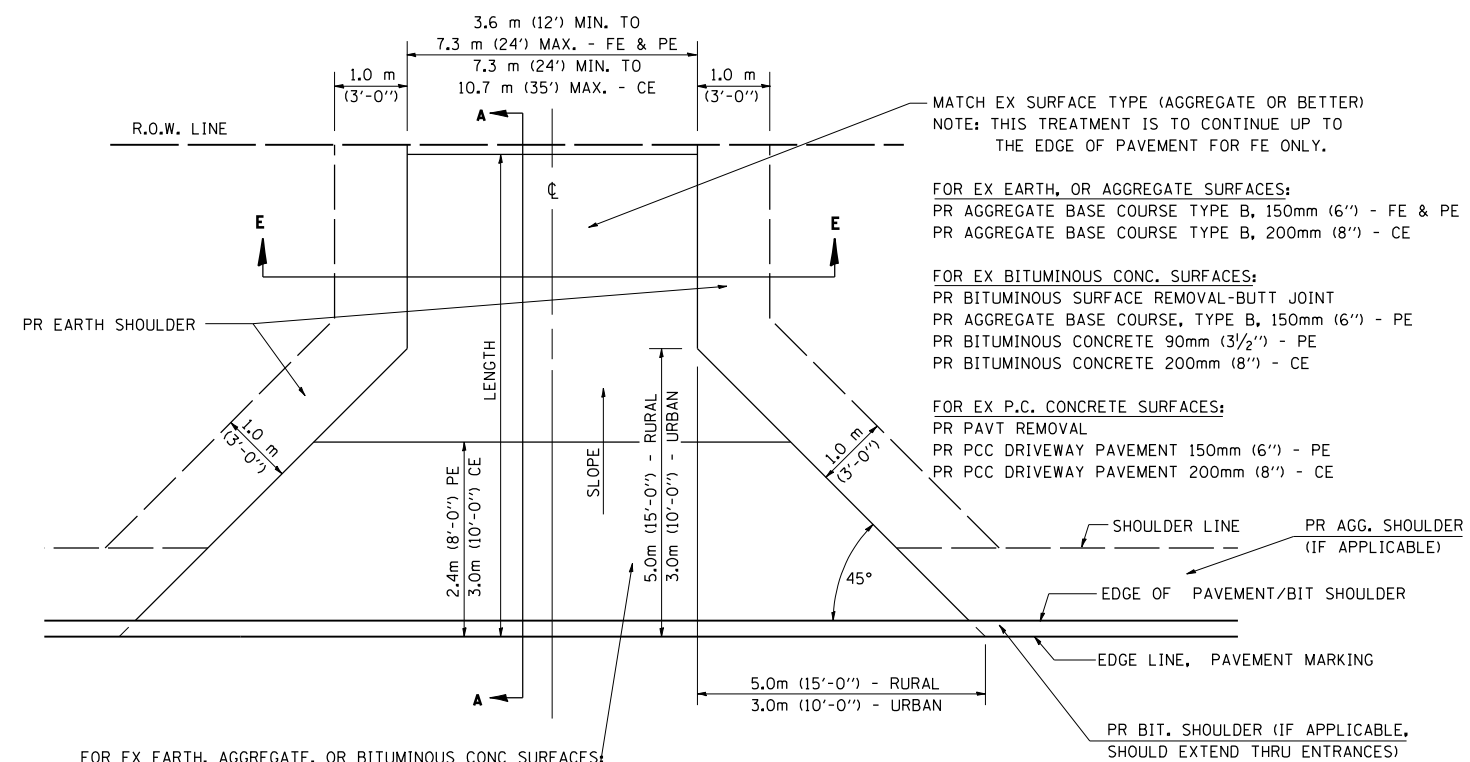
SECTION A-A FOR EX EARTH/AGGREGATE CE



SECTION A-A FOR EX BITUMINOUS PE & CE



SECTION A-A FOR EX P.C. CONC. PE & CE



FOR EX EARTH, AGGREGATE, OR BITUMINOUS CONC SURFACES:
 PR BIT SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)
 PR AGGREGATE BASE COURSE TYPE B 150mm (6") - FE
 PR AGGREGATE BASE COURSE TYPE B, 150mm (6") &
 PR BITUMINOUS CONCRETE 90mm (3 1/2") - PE
 PR BITUMINOUS CONCRETE 200mm (8") - CE

FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 150mm (6") - PE
 PR PCC DRIVEWAY PAVT 200mm (8") - CE

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

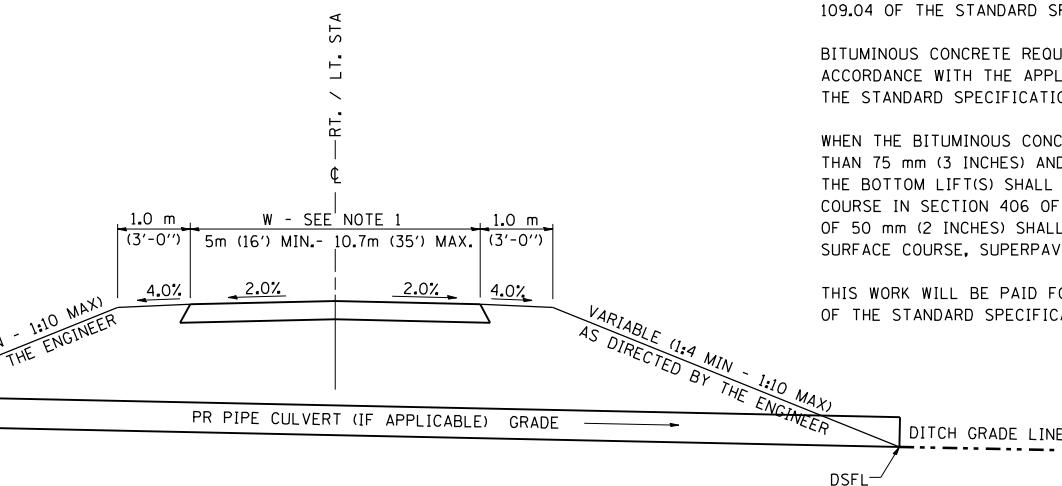
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.



SECTION E - E ENTRANCE TYPICAL SECTION

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

REVISIONS	
NAME	DATE
JCN	2/19/03
JCN	4/01/04

SHEET 1 OF 3

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT SIX
DETAILS FOR RURAL / URBAN
ENTRANCE & MAILBOX TURNOUT
W/O CONCRETE GUTTER
(3R - PROJECTS)

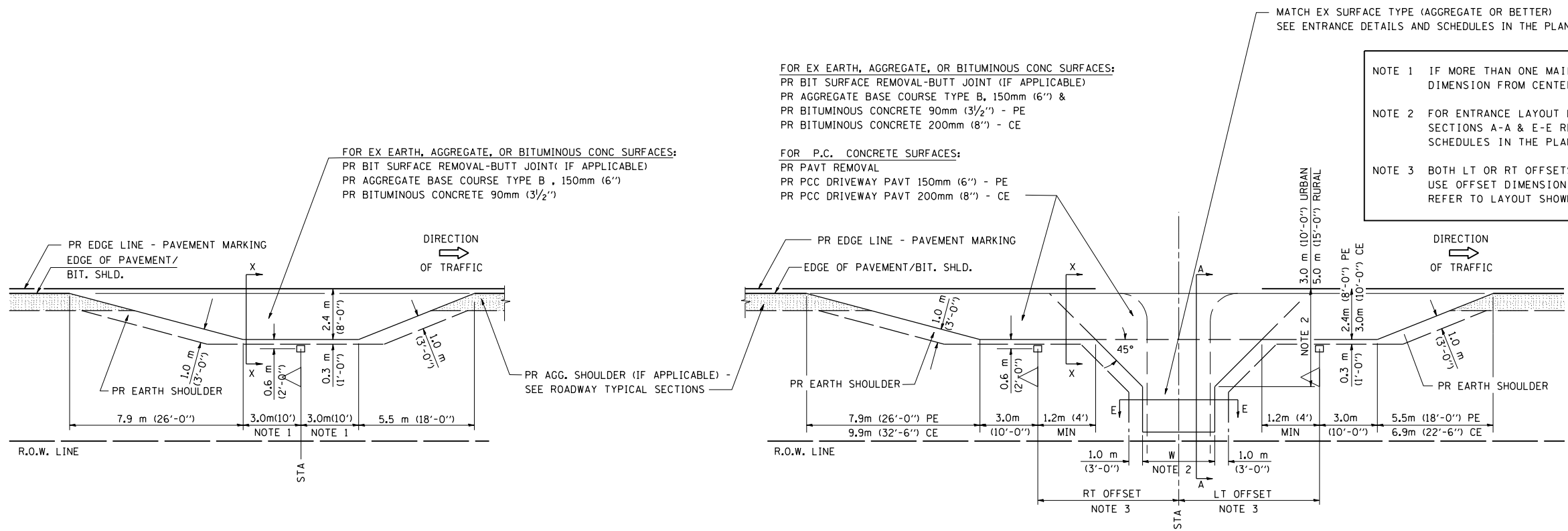
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 DATE: FEBRUARY 23, 1999

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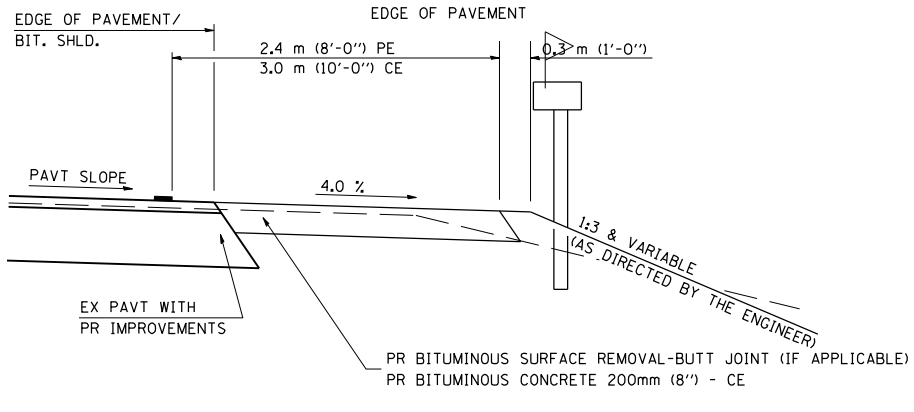
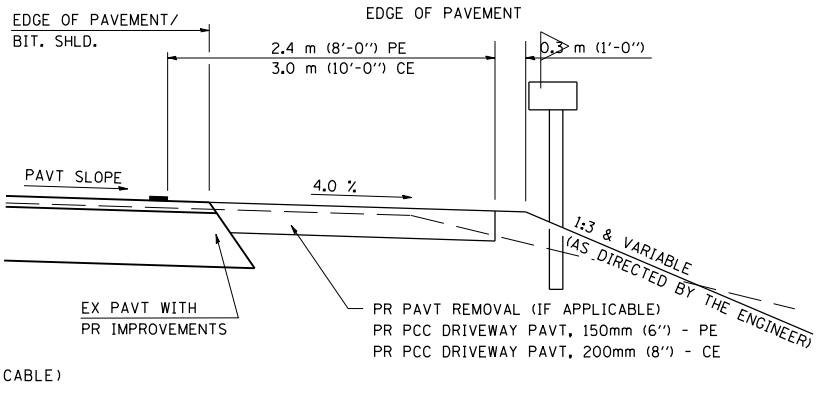
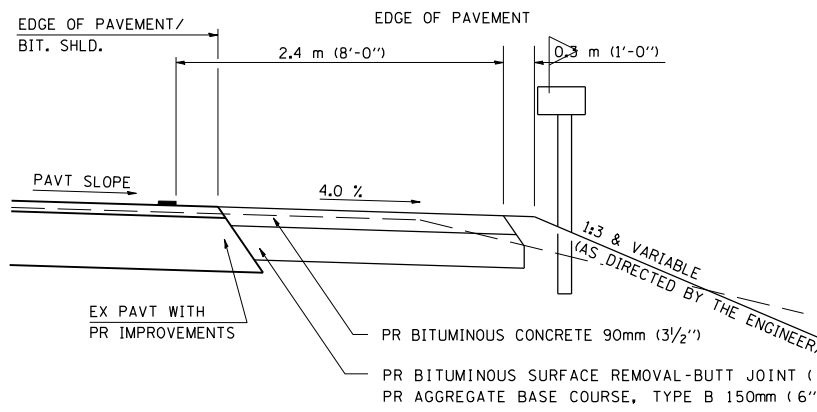
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAILS OF MAILBOX TURNOUTS



PLAN - MAILBOX TURNOUTS

PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



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ENT 3R

REVISIONS	
NAME	DATE
JCN	2/19/03
JCN	4/01/04

SHEET 2 OF 3

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT SIX
DETAILS FOR RURAL / URBAN
ENTRANCE & MAILBOX TURNOUT
W / O CONCRETE GUTTER
(3R - PROJECTS)

SCALE: VERT. _____
 HORIZ. _____
 DATE: FEBRUARY 23, 1999

DRAWN BY: CADD
 CHECKED BY: JCN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	34

STA. 17+00	TO STA. 17+00
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

65 70 75 80

BY	DATE

FINAL SURVEY	SURVEYED

NOTE BOOK NO.	AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED

NOTE BOOK NO.	AREAS CHECKED

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17+00

565

565

560

560

555

555

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	35
STA. 17+50		TO STA. 17+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

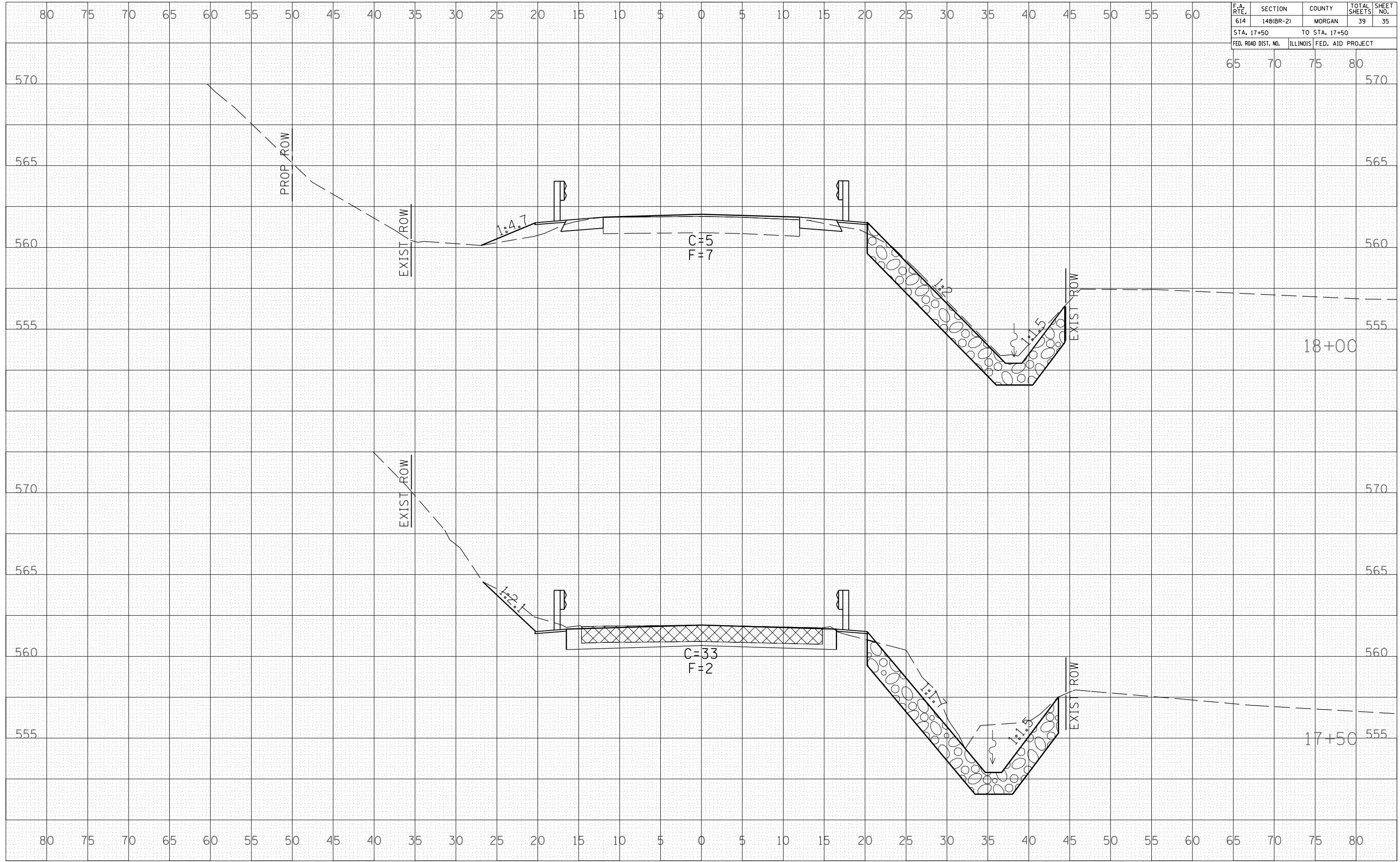
BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	DATE	NO. OF SHEETS	AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE	NO. OF SHEETS	AREAS CHECKED

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	37
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

65 70 75 80

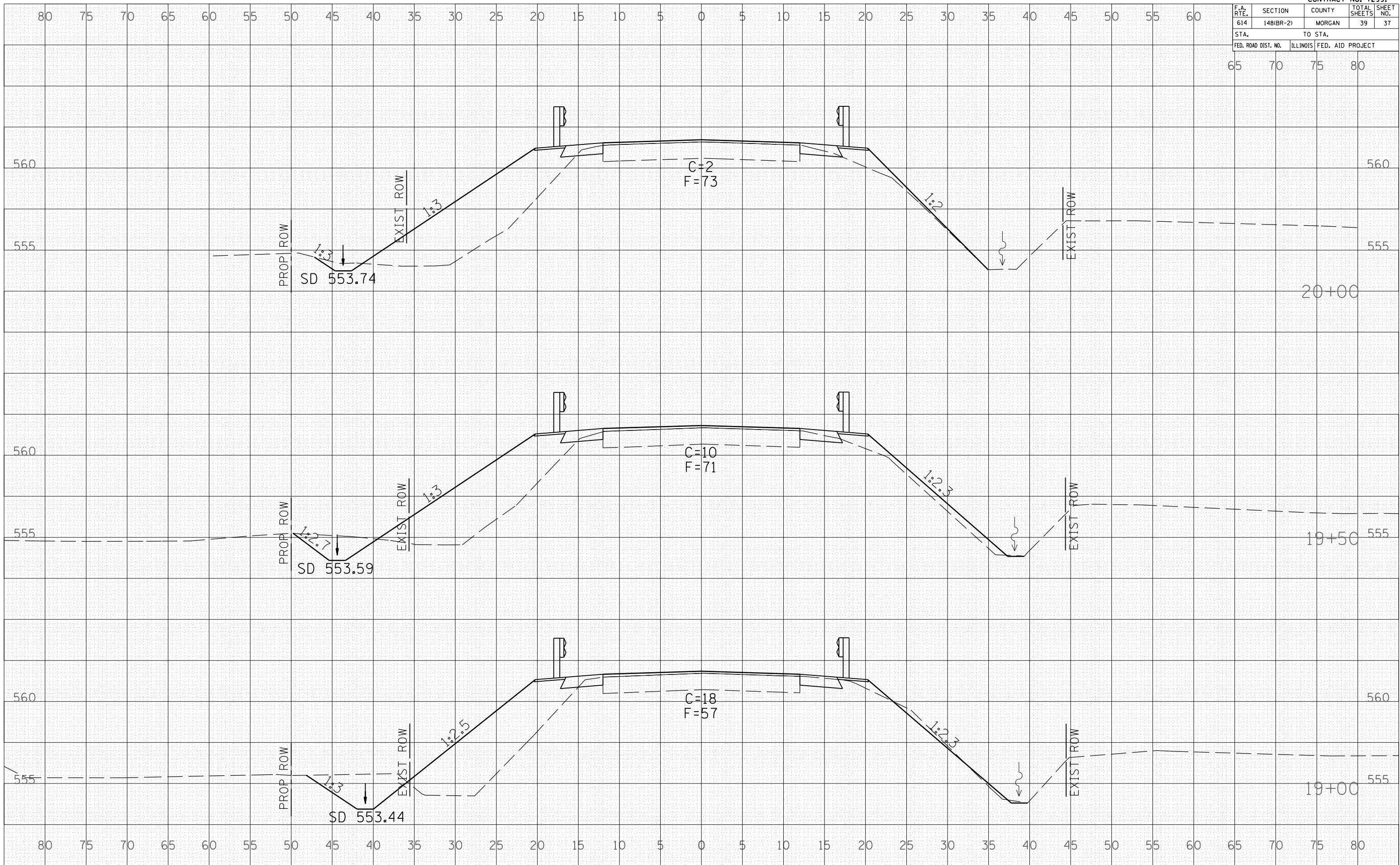
BY	DATE

NO.	AREAS CHECKED

BY	DATE

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	38
STA. 20+00		TO STA. 21+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

65 70 75 80

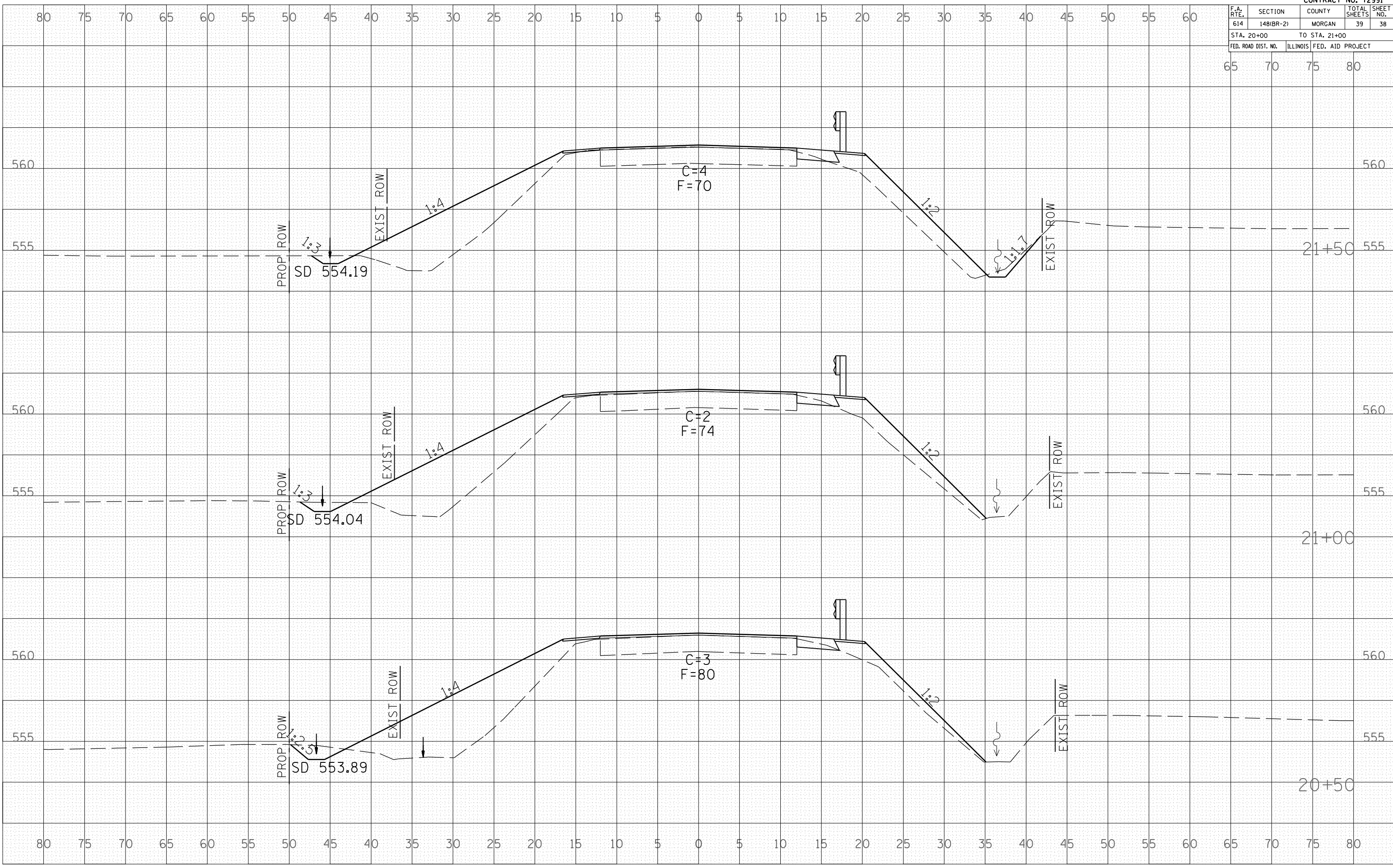
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NO.	AREAS CHECKED

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80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

560

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560

555

560

555

21+50

21+00

20+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	148(BR-2)	MORGAN	39	39
STA. 21+50		TO STA. 22+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

NO.	AREAS CHECKED

BY	DATE

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