

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
BRIDGE REPLACEMENT**

**BRIMFIELD-JUBILEE ROAD (CH D29) AND SAVAGE ROAD (R29)
PEORIA COUNTY
SECTION 12-00113-03-BR
PROJECT NO. BROS-0143(055)
JOB NO. C-94-055-13**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH D29	12-00113-03-BR	PEORIA	62	1
ILLINOIS		CONTRACT NO. 89642		

1. COVER
2. GENERAL NOTES AND LEGEND
3. SUMMARY OF QUANTITIES
- 4.-6. TYPICAL SECTIONS
7. SCHEDULE OF QUANTITIES
8. ALIGNMENT, BENCHMARKS, AND TIES
- 9.-10. DEMOLITION PLAN
- 11.-13. PLAN AND PROFILE
- 14.-15. PAVEMENT MARKING AND SIGNING PLAN
16. INTERSECTION DETAILS
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- 50.-55. CROSS SECTIONS-BRIMFIELD-JUBILEE ROAD
- 56.-57. CROSS SECTIONS-SAVAGE ROAD
- 58.-62. IDOT DISTRICT 4 STANDARD DETAILS

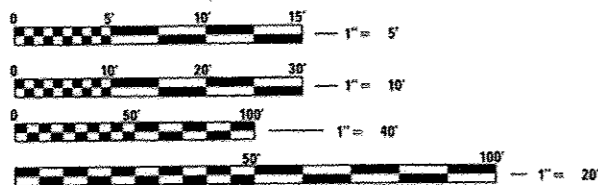
LIST OF STANDARDS

- | | |
|-------------|---|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 420401-10 | BRIDGE APPROACH PAVEMENT CONNECTOR |
| 515001-03 | NAME PLATES FOR BRIDGES |
| 542001-04 | CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA. |
| 542311-05 | TRAVERSABLE PIPE GRATE |
| 542401-01 | METAL END SECTION FOR PIPE CULVERTS |
| 630001-10 | STEEL PLATE BEAM GUARDRAIL |
| 630301-06 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GAURDRAIL TERMINALS |
| 631031-12 | TRAFFIC BARRIER TERMINAL, TYPE 6 |
| 635001-01 | DELINEATORS |
| 635006-03 | REFLECTOR AND TERMINAL MARKER PLACEMENT |
| 635011-02 | REFLECTOR MARKER AND MOUNTING DETAILS |
| 701901-03 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-04 | SIGN PANEL ERECTION DETAILS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORT |
| B.L.R. 21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| B.L.R. 23-4 | TRAFFIC BARRIER TERMINAL TYPE 1 |

IDOT DISTRICT 4 STANDARDS

- | | |
|-----------|-----------------------------------|
| 205001-04 | SLOPE & STEPS DETAIL |
| 406301-04 | RURAL ENTRANCES FOR "3R" PROJECTS |
| 780001-04 | TYPICAL PAVEMENT MARKINGS |

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



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.

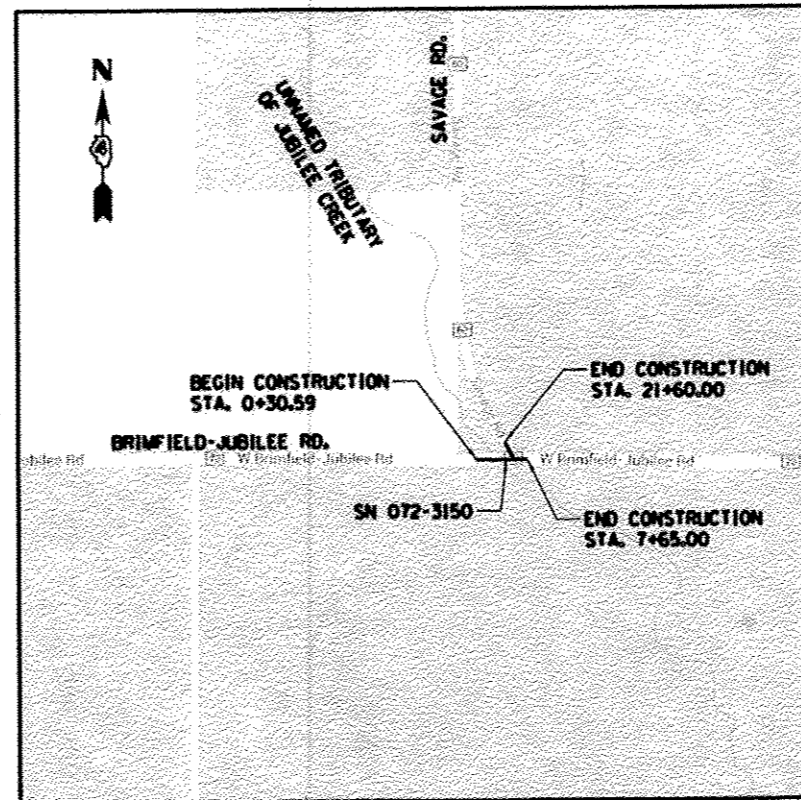
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CONTRACT NO. 89642

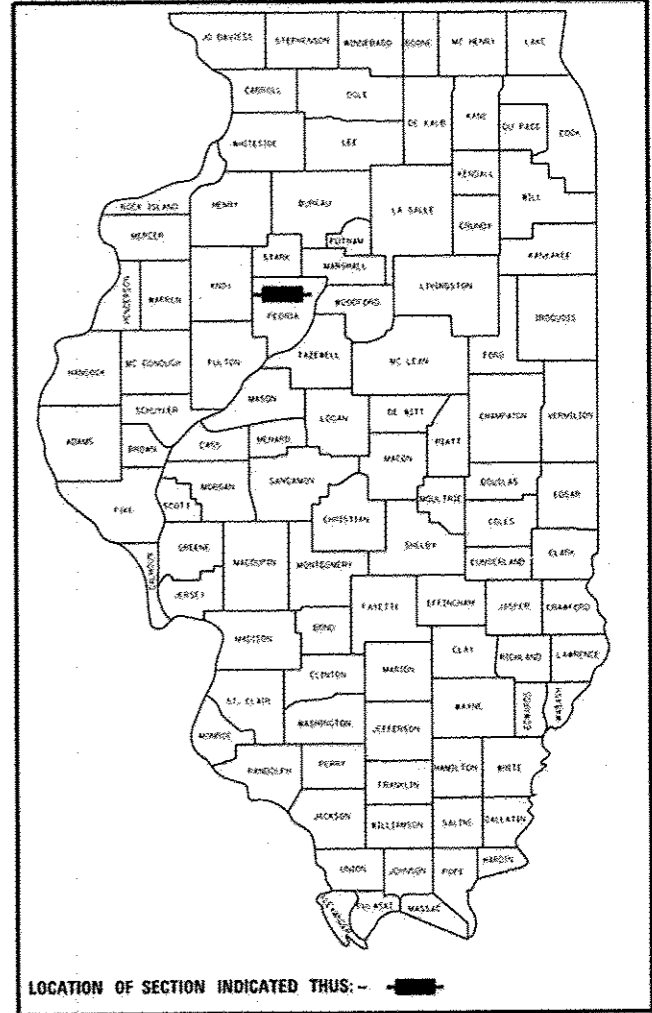
ADT (2011) = 450, ADT (2033) = 450, SU/MU=2%
HIGHWAY CLASS: III
FUNCTIONAL CLASSIFICATION: MINOR COLLECTOR
DESIGN SPEED: 40 MPH
POSTED SPEED LIMIT: 55 MPH
DESIGN POLICY: BLR MANUAL

VARIANCES GRANTED: NONE

COMMITMENTS: NO TREE CLEARING FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY PROJECT YEAR, IN ORDER TO PROTECT THE INDIANA BAT, (IDNR)



RANGE 6E
GROSS LENGTH = 734.41 FT. = 0.14 MILE
NET LENGTH = 603.35 FT. = 0.11 MILE



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

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MATTHEW G. DAWSON
062-057939
DATE SIGNED: 10/15/2013
LIC. EXP. DATE: 11/30/2015

APPROVED *October 15 2013*
Angie Burke Palmer
COUNTY ENGINEER

PASSED *10-23 2013*
Randy Sabin
DISTRICT FOUR ENGINEER OF
LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
Oct 25 2013
DEPUTY DIRECTOR OF HIGHWAYS,
REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 10/15/2013
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Hanson Professional Services Inc.
7625 N. University St., Suite 200
Peoria, Illinois 61614
Offices Nationwide

GENERAL NOTES

1. THE CONSTRUCTION SHALL BE GOVERNED BY THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
2. ALL REFERENCES TO THE "DEPARTMENT" OR "ENGINEER" IN THE I.D.O.T. STANDARD SPECIFICATIONS SHALL BE CONSTRUED TO MEAN I.D.O.T., THE OWNER OR HIS AGENT AS APPROPRIATE.
3. WHERE SECTION, SUB-SECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
6. ALL SECTIONS, DETAILS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
7. ALL THE ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
8. ALL PAVEMENT REMOVALS SHALL BE FULL DEPTH SAW CUT AT THE LIMITS TO BE REMOVED. THE COST OF THE SAW CUT IS INCLUDED IN PAVEMENT REMOVAL.
9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
10. EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE HAULED OFF-SITE AT CONTRACTOR'S EXPENSE.
11. THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
12. APPLICATION RATES:
 NUTRIENTS: 90 LB/ACRE
 BITUMINOUS MATERIALS (PRIME COAT): 0.50 GAL/SQ YD (GRAVEL SURFACE)
 POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) RATES

SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 GAL/SY (0.00034 TON/SY)	0.04 GAL/SY
EXISTING PAVEMENT	0.05 GAL/SY (0.00022 TON/SY)	0.025 GAL/SY
FOG COAT (BETWEEN LIFTS)	0.05 GAL/SY (0.00022 TON/SY)	0.025 GAL/SY

 NOTE: ESTIMATED TRUCK APPLICATION RATE IS USED FOR ESTIMATING QUANTITIES.
13. THE CONTRACTOR SHALL USE ANY ON SITE MATERIAL DEEMED SUITABLE BY THE ENGINEER BEFORE ANY NEW FILL IS HAULED TO THE SITE.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
15. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
16. COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.
17. BRIMFIELD-JUBILEE ROAD IS CURRENTLY CLOSED AT THE BRIDGE. THIS CLOSURE SHALL CONTINUE DURING CONSTRUCTION. THE SAVAGE ROAD INTERSECTION MAY ALSO BE CLOSED DURING CONSTRUCTION.
18. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.
19. CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

UTILITIES

AMEREN (ELECTRIC)
 8420 N. UNIVERSITY ST.
 PEORIA, IL 61615
 ATTN: JOHN REICK
 309.693.4697

WINDSTREAM (FIBER OPTIC)
 211-B S.W. ADAMS ST.
 PEORIA, IL 61602
 ATTN: DAVID FERREIRA
 309.253.0930

FRONTIER COMMUNICATIONS
 111 S. MAIN STREET
 KEWANEE, IL 61443
 ATTN: TERRY SPURGEON
 309.853.6293

LEGEND

- ⊙ EXISTING MANHOLE
- ▲ CONTROL POINT
- ⊞ EXISTING TELEPHONE PEDESTAL
- EXISTING GUY
- EXISTING POWER POLE
- ◁ EXISTING CULVERT
- ⊥ EXISTING SIGN
- ⊙ EXISTING TREE
- ⊗ EXISTING R.O.W. MARKER
- ⊥ PROPOSED SIGN
- ▲ PROPOSED RIPRAP
- G— GAS
- T— TELEPHONE
- CTV— CABLE TELEVISION
- FO— FIBER OPTIC
- W— WATER
- PIPE CULVERT
- A— OVERHEAD ELECTRIC
- x—x—x—x— FENCE
- SECTION LINE
- PROPERTY LINE
- EXISTING R.O.W.
- /// TEMPORARY EASEMENT
- ~~~~~ EXISTING TREE LINE
- EXISTING GUARDRAIL
- PROPOSED GUARDRAIL
- PROPOSED PIPE CULVERT

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, 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 ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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DESIGNED	MJD	10/15/2013
DRAWN	FLA	10/14/2013
REVIEWED	CAL	10/15/2013

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Default	PLOT DATE = 10/15/2013	DATE - 10/15/2013	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
 GENERAL NOTES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-0R	PEORIA	62	2
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT BR95-0143(05)	

SCALE: SHEET OF SHEETS STA. TO STA.

ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	192.5
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	105
20101100	TREE TRUNK PROTECTION	EACH	4
20200100	EARTH EXCAVATION	CU YD	1674
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
20400800	FURNISHED EXCAVATION	CU YD	858
20700220	POROUS GRANULAR EMBANKMENT	CU YD	100
20800150	TRENCH BACKFILL	CU YD	56
* 21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	3253
* 25000305	SEEDING, CLASS 3A	ACRE	0.75
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	67
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	67
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	67
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	3026
* 25100900	TURF REINFORCEMENT MAT	SQ YD	216
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	81
28000305	TEMPORARY DITCH CHECKS	FOOT	429
28000400	PERIMETER EROSION BARRIER	FOOT	594
28000500	INLET AND PIPE PROTECTION	EACH	3
28100107	STONE RIPRAP, CLASS A4	SQ YD	1794
28200200	FILTER FABRIC	SQ YD	1794
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	1740
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	18
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1259
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	125
40603250	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30	TON	449
40603505	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30	TON	225
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	57
44000100	PAVEMENT REMOVAL	SQ YD	2079
44004000	PAVED DITCH REMOVAL	FOOT	386
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	429
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	581
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	3
50105220	PIPE CULVERT REMOVAL	FOOT	86
50200100	STRUCTURE EXCAVATION	CU YD	172
50200300	COFFERDAM EXCAVATION	CU YD	250
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	176.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	250.9
50300260	BRIDGE DECK GROOVING	SQ YD	554
50300300	PROTECTIVE COAT	SQ YD	731
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	2910
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	82330
51201600	FURNISHING STEEL PILES HP12X53	FOOT	280

ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY
51201610	FURNISHING STEEL PILES HP12X63	FOOT	340
51202305	DRIVING PILES	FOOT	620
51203600	TEST PILE STEEL HP12X53	EACH	2
51203610	TEST PILE STEEL HP12X63	EACH	2
51204650	PILE SHOES	EACH	5
51500100	NAME PLATES	EACH	1
52100505	ANCHOR BOLTS, 5/8"	EACH	20
52100520	ANCHOR BOLTS, 1"	EACH	20
542A1093	PIPE CULVERTS, CLASS A, TYPE 2 48"	FOOT	56
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	102.5
54213873	STEEL END SECTIONS 18"	EACH	4
54260311	TRAVERSABLE PIPE GRATE	FOOT	32.75
54261348	CONCRETE END SECTION, STANDARD 542001, 48", 1:3	EACH	2
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	71
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	400
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	570
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	9
67100100	MOBILIZATION	L SUM	1
72000100	SIGN PANEL - TYPE 1	SQ FT	20.25
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	43.5
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	2804
* 78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	16
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* A2001716	TREE, ACER SACCHARUM (SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	4
* A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	3
* A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4
* A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4
* A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4
* A2007816	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 2" CALIPER, BALLED AND BURLAPPED	EACH	4
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	117
* X6310214	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	1
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	12.5
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	2
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	153
* LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2

* SPECIALTY ITEM

DESIGNED: MJD 8/5/13
 DRAWN: RLA 10/14/2013
 REVIEWED: CAL 10/15/2013

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 PLOT DATE: 10/22/2013

DESIGNED - MGD	REVISOR -
DRAWN - RLA	REVISOR -
CHECKED - CAL	REVISOR -
DATE - 10/15/2013	REVISOR -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

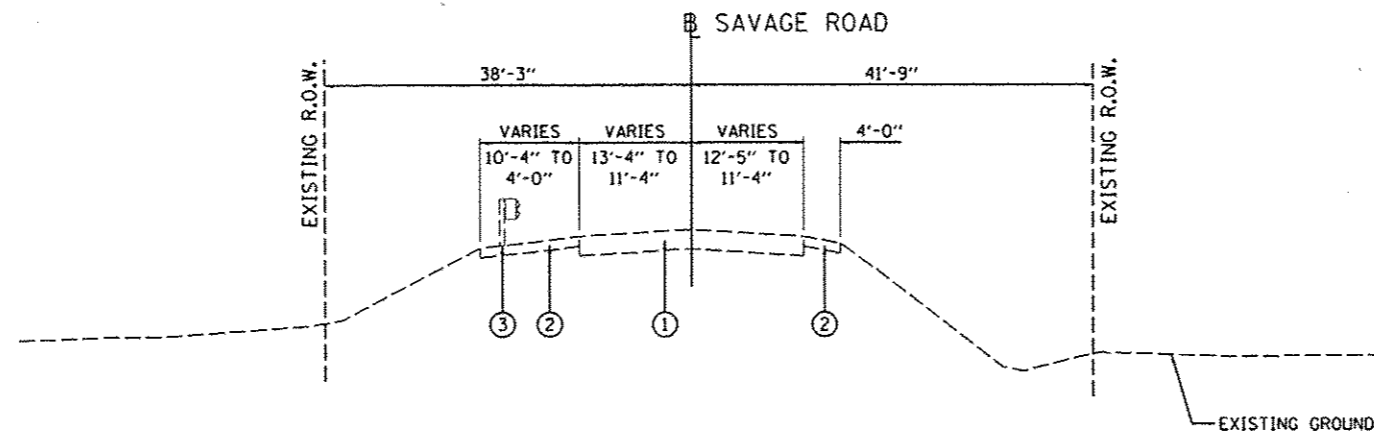
BRIMFIELD-JUBILEE ROAD
 SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

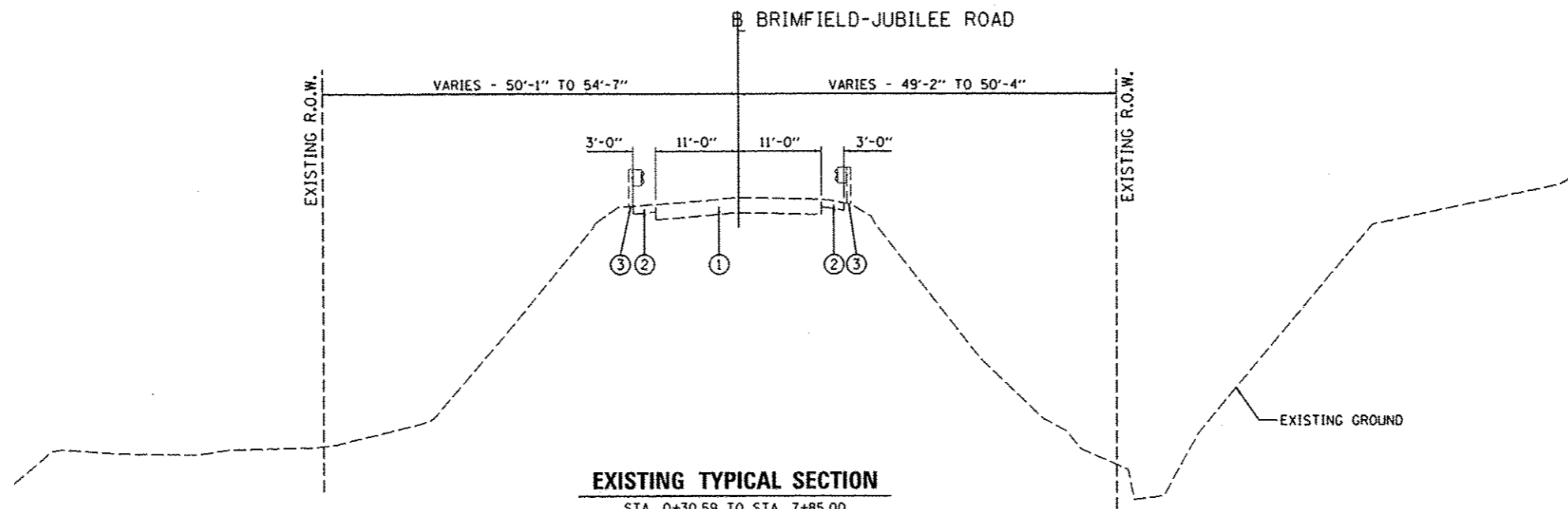
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CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT BR05-01430053				

LEGEND

- ① EXISTING HOT-MIX ASPHALT PAVEMENT, 8"-8.5"
- ② EXISTING AGGREGATE SHOULDER
- ③ EXISTING STEEL PLATE BEAM GUARDRAIL



EXISTING TYPICAL SECTION
 STA. 20+68.58 TO STA. 21+60.00



EXISTING TYPICAL SECTION
 STA. 0+30.59 TO STA. 7+85.00

DESIGNED	MD	B/S/JL
DRAWN	FL3	10/14/2013
REVIEWED	CR	10/15/2013

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
EXISTING TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	4
ILLINOIS FED. AID PROJECT BR05-01430551			CONTRACT NO.89642	

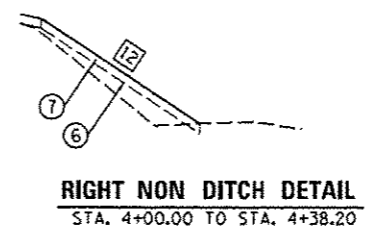
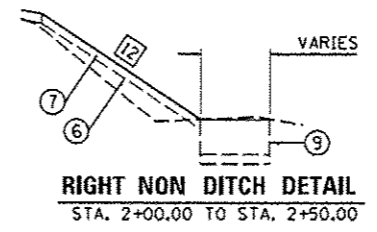
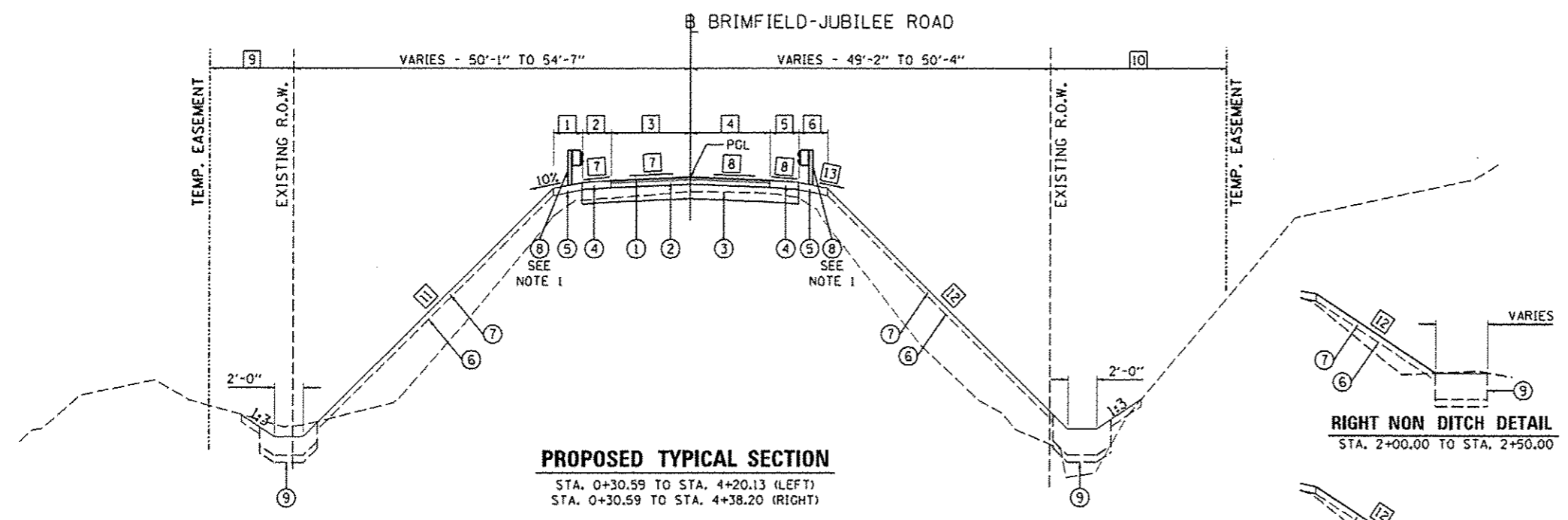
SAVAGE ROAD
INTERSECTION OMISSION
6+19.21 TO 7+34.48 (LEFT)

BRIDGE OMISSION
4+20.13 TO 6+19.21 (LEFT)
4+38.20 TO 6+29.76 (RIGHT)

NOTES:
1. SEE GUARDRAIL DETAILS FOR GUARDRAIL
LOCATIONS AND LAYOUT.

STRUCTURAL DESIGN TRAFFIC:	YEAR 2023	ADT 450
PV = 88%	SU = 7%	MU = 5%
ROAD/STREET CLASSIFICATION:	CLASS III	
PERCENTAGE OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE	P = 100% S = 100% M = 100%	
TRAFFIC FACTOR: ACTUAL TF = 0.12	AC TYPE = 20	
MINIMUM TF = 0.25		
PC GRADE: Binder = SBS 70-22	Surface = SBS 70-22	
SUBGRADE SUPPORT RATING:	SSR = POOR (STA. 0+30.59 TO 7+85.00)	
	SSR = (STA. TO)	

BITUMINOUS MIXTURE REQUIREMENTS		
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:		
MIXTURE USE(S):	POLYMERIZED SURFACE COURSE	POLYMERIZED BINDER COURSE
AC/PG:	SBS OR SBR 70-22	SBS OR SBR 70-22
RAP%+RAS% (MAX.):	10%	10%
DESIGN AIR VOIDS:	4.0% @ N-30	4.0% @ N-30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 L	IL 19.0 L
FRICTION AGGREGATE:	MIXTURE C	N/A
MIXTURE WEIGHT:	116 LB/SQ YD/IN	116 LB/SQ YD/IN
THICKNESS:	2.0 IN	4.0 IN



- 1 AGGREGATE SHOULDER WIDTH - LEFT
STA. 0+30.59 TO STA. 2+24.83 = 0'-0"
STA. 2+24.83 TO STA. 2+30.83 = TRANSITIONS FROM 0'-0" TO 4'-0"
STA. 2+30.83 TO STA. 4+20.13 = 4'-0"
- 2 ASPHALT SHOULDER WIDTH - LEFT
STA. 0+30.59 TO STA. 0+40.00 = TRANSITIONS FROM 0'-0" TO 4'-0"
STA. 0+40.00 TO STA. 1+88.83 = 4'-0"
STA. 1+88.83 TO STA. 1+94.83 = TRANSITIONS FROM 4'-0" TO 8'-0"
STA. 1+94.83 TO STA. 2+24.83 = 8'-0"
STA. 2+24.83 TO STA. 2+30.83 = TRANSITIONS FROM 8'-0" TO 4'-0"
STA. 2+30.83 TO STA. 4+20.13 = 4'-0"
- 3 LANE WIDTH - LEFT
STA. 0+30.59 TO STA. 1+00.00 = TRANSITIONS FROM 11'-7" TO 11'-0"
STA. 1+00.00 TO STA. 4+20.13 = 11'-0"
- 4 LANE WIDTH - RIGHT
STA. 0+30.59 TO STA. 0+40.00 = TRANSITIONS FROM 10'-10" TO 11'-0"
STA. 0+40.00 TO STA. 4+38.20 = 11'-0"
- 5 ASPHALT SHOULDER WIDTH - RIGHT
STA. 0+30.59 TO STA. 0+40.00 = TRANSITIONS FROM 0'-0" TO 4'-0"
STA. 0+40.00 TO STA. 4+38.20 = 4'-0"

- 6 AGGREGATE SHOULDER WIDTH - RIGHT
STA. 0+30.59 TO STA. 0+40.00 = 0'-0"
STA. 0+40.00 TO STA. 0+62.48 = TRANSITIONS FROM 0'-0" TO 10'-0"
STA. 0+62.48 TO STA. 0+87.46 = 10'-0"
STA. 0+87.46 TO STA. 1+02.44 = TRANSITIONS FROM 10'-0" TO 4'-0"
STA. 1+02.44 TO STA. 4+38.20 = 4'-0"
- 7 LANE/PAVED SHOULDER CROSS SLOPE - LEFT
STA. 0+30.59 TO STA. 0+90.00 = TRANSITIONS FROM -4.36% TO -2.00%
STA. 0+90.00 TO STA. 4+20.13 = -2.00%
- 8 LANE/PAVED SHOULDER CROSS SLOPE - RIGHT
STA. 0+30.59 TO STA. 1+10.00 = TRANSITIONS FROM -5.10% TO -2.00%
STA. 1+10.00 TO STA. 4+38.20 = -2.00%
- 9 TEMPORARY EASEMENT - LEFT
STA. 0+30.59 TO STA. 1+75.00 = 0'-0"
STA. 1+75.00 = TRANSITIONS FROM 0'-0" TO 10'-0"
STA. 1+75.00 TO STA. 4+20.13 = 10'-0"
- 10 TEMPORARY EASEMENT - RIGHT
STA. 0+30.59 TO STA. 1+00.00 = 0'-0"
STA. 1+00.00 = TRANSITIONS FROM 0'-0" TO 10'-0"
STA. 1+00.00 TO STA. 2+50.61 = 10'-0"
STA. 2+50.61 = TRANSITIONS FROM 10'-0" TO 25'-0"
STA. 2+50.61 TO STA. 4+38.20 = 25'-0"

- 11 FORESLOPE - LEFT
STA. 0+30.59 TO STA. 2+00.00 = 1:3
STA. 2+00.00 TO STA. 4+19.01 = 1:2
- 12 FORESLOPE - RIGHT
STA. 0+30.59 TO STA. 0+40.00 = 1:3
STA. 0+40.00 TO STA. 0+87.44 = 1:20 (UP)
STA. 0+87.44 TO STA. 2+10.00 = 1:3
STA. 2+10.00 TO STA. 2+50.00 = TRANSITION FROM 1:3 TO 1:2
STA. 2+50.00 TO STA. 4+39.73 = 1:2
- 13 AGGREGATE SHOULDER SLOPE - RIGHT
STA. 0+39.98 TO STA. 0+87.46 = -6.00%
STA. 0+87.46 TO STA. 1+00.00 = TRANSITIONS FROM -6.00% TO -10.00%
STA. 1+00.00 TO STA. 4+38.20 = -10.00%

LEGEND

- 1 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30, 2"
- 2 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30, 4"
- 3 SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- 4 HOT-MIX ASPHALT SHOULDERS, TYPE A, 6"
- 5 AGGREGATE SHOULDERS, TYPE A, 6"
- 6 TOPSOIL FURNISH AND PLACE, 6"
- 7 SEEDING, CLASS 3A
- 8 STEEL PLATE BEAM GUARDRAIL
- 9 STONE RIPRAP, CLASS A4

DESIGNED	MCD	8/2/13
DRAWN	RLA	10/14/2013
REVIEWED	CAL	10/15/2013

FILE NAME	USER NAME	DESIGNED	REVISED
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10/29/2013	10/15/2013	CAL	-

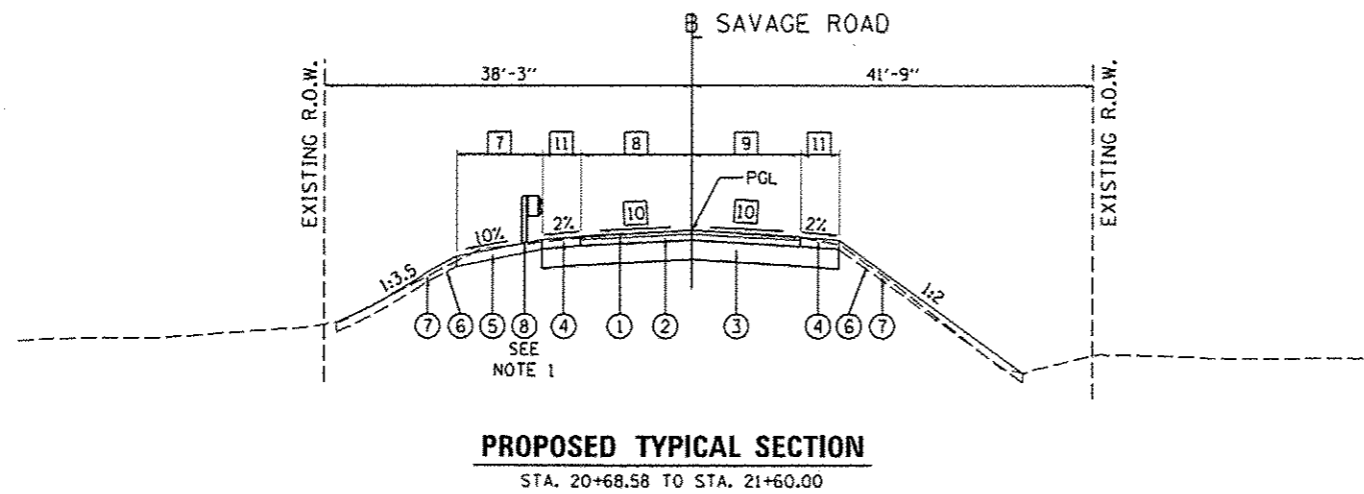
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD PROPOSED TYPICAL SECTIONS			
SCALE: N.T.S.	SHEET	OF	SHEETS
STA.	TO	STA.	TO

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-0D113-03-BR	PEORIA	62	5
ILLINOIS FED. AID PROJECT BR95-0143(055)				

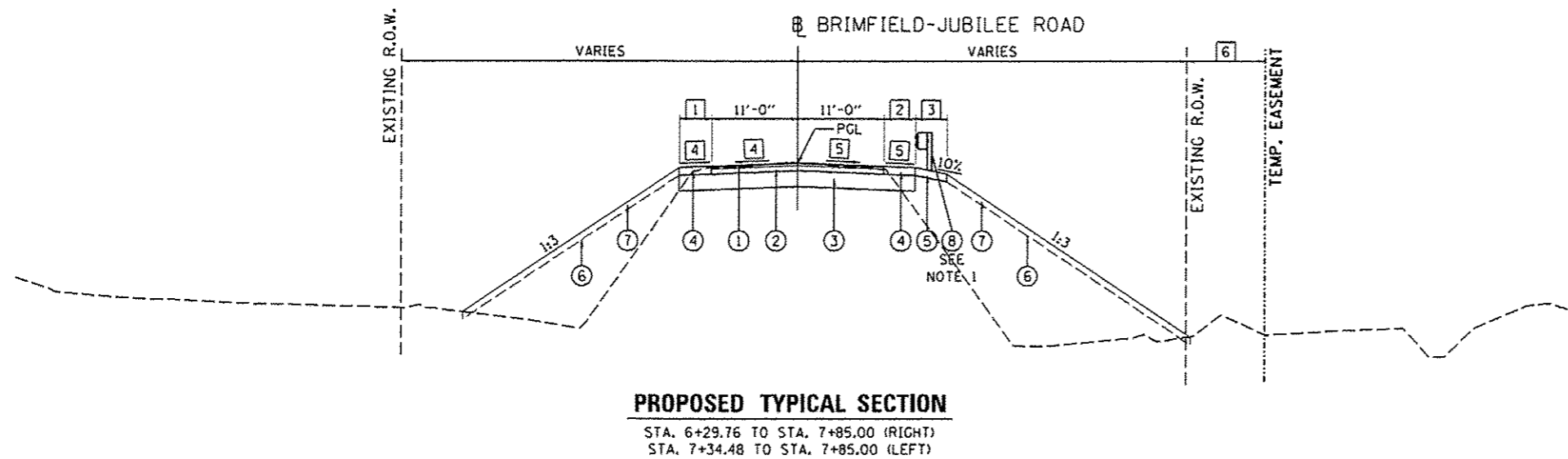
LEGEND

- ① POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30, 2"
- ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30, 4"
- ③ SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- ④ HOT-MIX ASPHALT SHOULDERS, TYPE A, 6"
- ⑤ AGGREGATE SHOULDERS, TYPE A, 6"
- ⑥ TOPSOIL FURNISH AND PLACE, 6"
- ⑦ SEEDING, CLASS 3A
- ⑧ STEEL PLATE BEAM GUARDRAIL



PROPOSED TYPICAL SECTION
 STA. 20+68.58 TO STA. 21+60.00

- ① ASPHALT SHOULDER WIDTH - LEFT
 STA. 7+34.48 TO STA. 7+65.00 = 4'-0"
 STA. 7+65.00 TO STA. 7+85.00 = TRANSITIONS FROM 4'-0" TO 0'-0"
- ② ASPHALT SHOULDER WIDTH - RIGHT
 STA. 6+29.76 TO STA. 7+65.00 = 4'-0"
 STA. 7+65.00 TO STA. 7+85.00 = TRANSITIONS FROM 4'-0" TO 0'-0"
- ③ AGGREGATE SHOULDER WIDTH - RIGHT
 STA. 6+29.76 TO STA. 7+17.18 = 4'-0"
 STA. 7+17.18 TO STA. 7+41.18 = TRANSITIONS FROM 4'-0" TO 0'-0"
 STA. 7+41.18 TO STA. 7+85.00 = 0'-0"
- ④ LANE/PAVED SHOULDER CROSS SLOPE - LEFT
 STA. 7+34.48 TO STA. 7+65.00 = -2.00%
 STA. 7+65.00 TO STA. 7+85.00 = TRANSITIONS FROM -2.00% TO -2.50%
- ⑤ LANE/PAVED SHOULDER CROSS SLOPE - RIGHT
 STA. 6+29.76 TO STA. 7+55.00 = -2.00%
 STA. 7+55.00 TO STA. 7+85.00 = TRANSITIONS FROM -2.00% TO -3.00%
- ⑥ TEMPORARY EASEMENT - RIGHT
 STA. 6+29.76 TO STA. 7+50.00 = 10'-0"
 STA. 7+50.00 TRANSITIONS FROM 10'-0" TO 0'-0"
 STA. 7+50.00 TO STA. 7+85.00 = 0'-0"
- ⑦ AGGREGATE SHOULDER WIDTH - LEFT
 STA. 20+68.58 TO STA. 20+83.13 = 4'-0"
 STA. 20+83.13 TO STA. 20+98.52 = TRANSITIONS FROM 4'-0" TO 10'-0"
 STA. 20+98.52 TO STA. 21+23.45 = 10'-0"
 STA. 21+23.45 TO STA. 21+40.00 = TRANSITIONS FROM 10'-0" TO 0'-0"
 STA. 21+40.00 TO STA. 21+60.00 = 0'-0"
- ⑧ LANE WIDTH - LEFT
 STA. 20+68.58 TO STA. 21+20.60 = TRANSITIONS FROM 15'-5" TO 11'-8"
 STA. 21+20.60 TO STA. 21+60.00 = TRANSITIONS FROM 11'-8" TO 11'-5"
- ⑨ LANE WIDTH - RIGHT
 STA. 20+68.58 TO STA. 21+20.80 = TRANSITIONS FROM 15'-11" TO 11'-4"
 STA. 21+20.80 TO STA. 21+60.00 = 11'-4"
- ⑩ LANE CROSS SLOPE - LEFT/RIGHT
 STA. 20+68.58 TO STA. 21+60.00 = CROSS SLOPE VARIES, SEE INTERSECTION
 DETAIL FOR GRADING
- ⑪ PAVED SHOULDER WIDTH - LEFT/RIGHT
 STA. 20+68.58 TO STA. 21+50.00 = 4'-0"
 STA. 21+50.00 TO STA. 21+60.00 = TRANSITION FROM 4'-0" TO 0'-0"



PROPOSED TYPICAL SECTION
 STA. 6+29.76 TO STA. 7+85.00 (RIGHT)
 STA. 7+34.48 TO STA. 7+85.00 (LEFT)

NOTES:
 1. SEE GUARDRAIL DETAILS FOR GUARDRAIL LOCATIONS AND LAYOUT.

DESIGNED	MSD	9/5/13
DRAWN	RLA	10/14/2013
REVIEWED	CAL	10/15/2013

FILE NAME =	USER NAME = mansk01398	DESIGNED - MGD	REVISED -
ei:\p\130\work\do_not_delete\0159952\04\2\0165-shr-typical003.dgn		DRAWN - RLA	REVISED -
		CHECKED - CAL	REVISED -
		DATE - 10/15/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD AND SAVAGE ROAD
PROPOSED TYPICAL SECTIONS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	6
CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT BR05-014310551				

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

HANSON Professional Services Inc.

EROSION CONTROL SCHEDULE

Table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, FROM STRUCTURAL PLANS, TOTAL.

PAVEMENT MARKING SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

PERIMETER EROSION BARRIER SCHEDULE table with columns for LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

PAVEMENT AND SHOULDER SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

END SECTIONS SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

PIPE PROTECTION SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

HEADWALL REMOVAL SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

GUARDRAIL SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

PIPE CULVERT SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

TREE REMOVAL SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

SIGN SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

PIPE CULVERT REMOVAL SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

REMOVAL SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

TEMPORARY DITCH CHECK SCHEDULE table with columns for LOCATION, LOCATION, LOCATION, LOCATION and rows for WEST OF BRIDGE, EAST OF BRIDGE, SAVAGE ROAD, TOTAL.

EARTHWORK SUMMARY table with columns for LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION, LOCATION and rows for SAVAGE ROAD, BRIMFIELD-JUBILEE ROAD, CONTINGENCY, TOTAL.

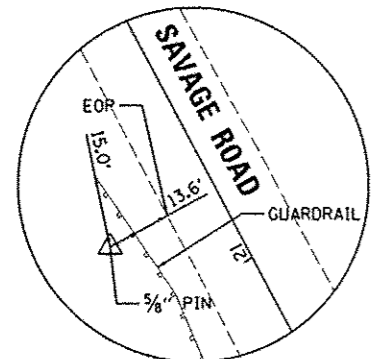
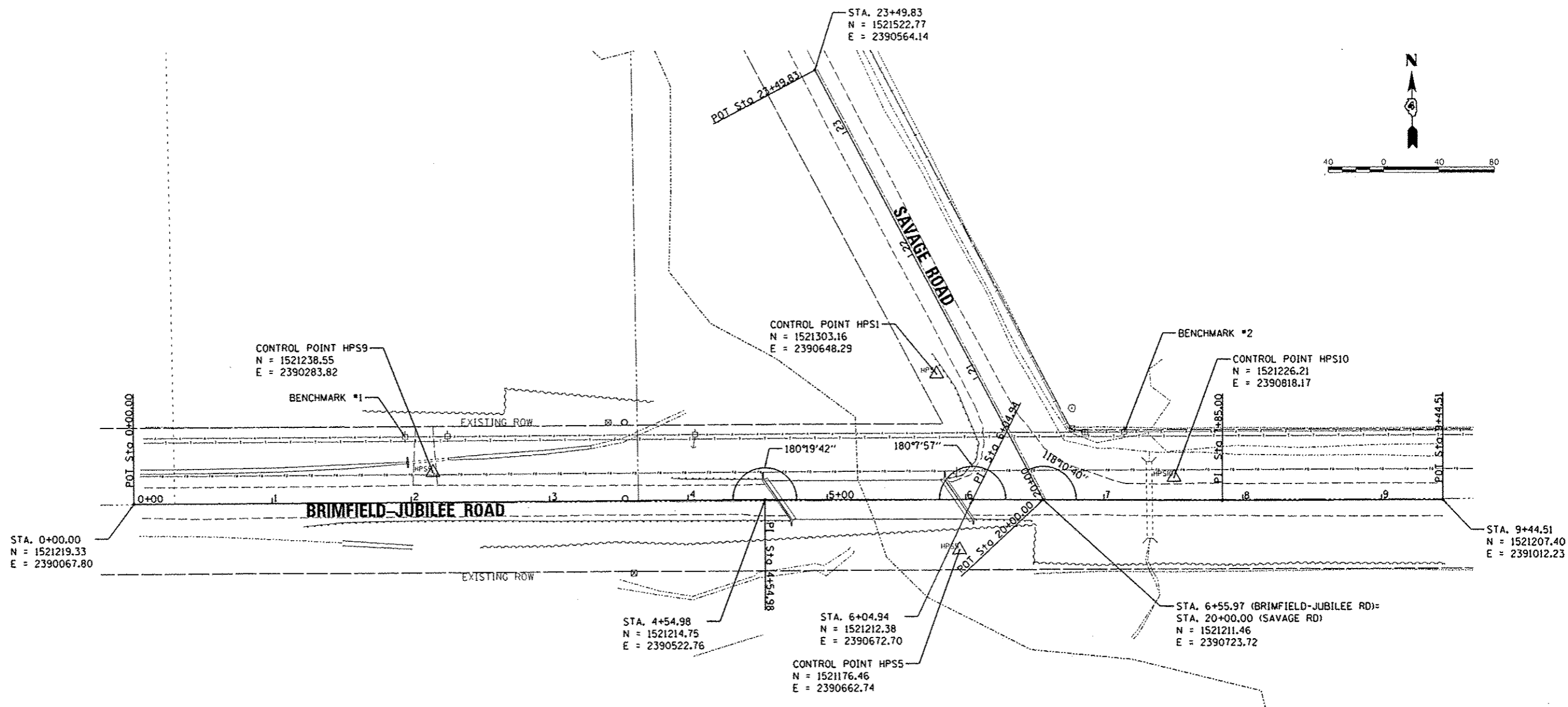
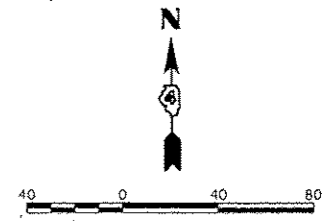
DESIGNED: MGD 8/7/13

Metadata table with columns for FILE NAME, USER NAME, DESIGNED, DRAWN, CHECKED, PLOT DATE, REVISIONS.

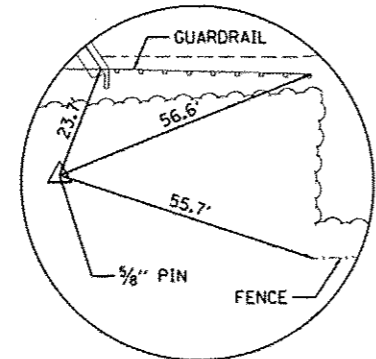
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD SCHEDULE OF QUANTITIES

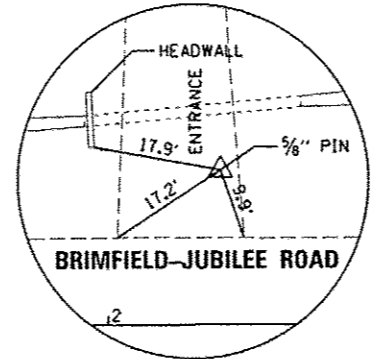
Project details table with columns for F.A. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., SCALE, SHEET OF SHEETS, STA. TO STA., ILLINOIS/FED. AID PROJECT, 8905-0130365



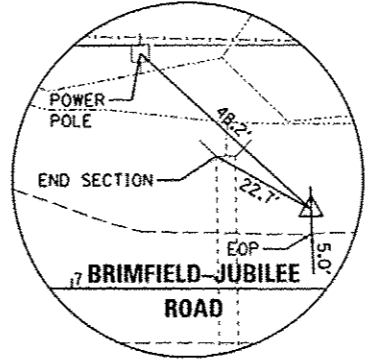
CONTROL POINT HPS1
5/8" PIN



CONTROL POINT HPS5
5/8" PIN



CONTROL POINT HPS9
5/8" PIN



CONTROL POINT HPS10
5/8" PIN

- BENCHMARKS**
1. SPIKE NAIL IN POWER POLE
ELEV. = 624.14
 2. SPIKE NAIL IN POWER POLE
ELEV. = 580.30

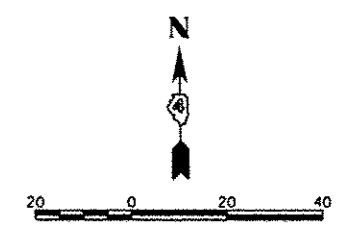
DESIGNED	6/5/13
DRAWN	10/17/2013
REVIEWED	10/15/2013

FILE NAME :	USER NAME :	DESIGNED -	REVISED -
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PLOT DATE : 10/16/2013	DATE -	CAL	10/15/2013
		REVIS	-

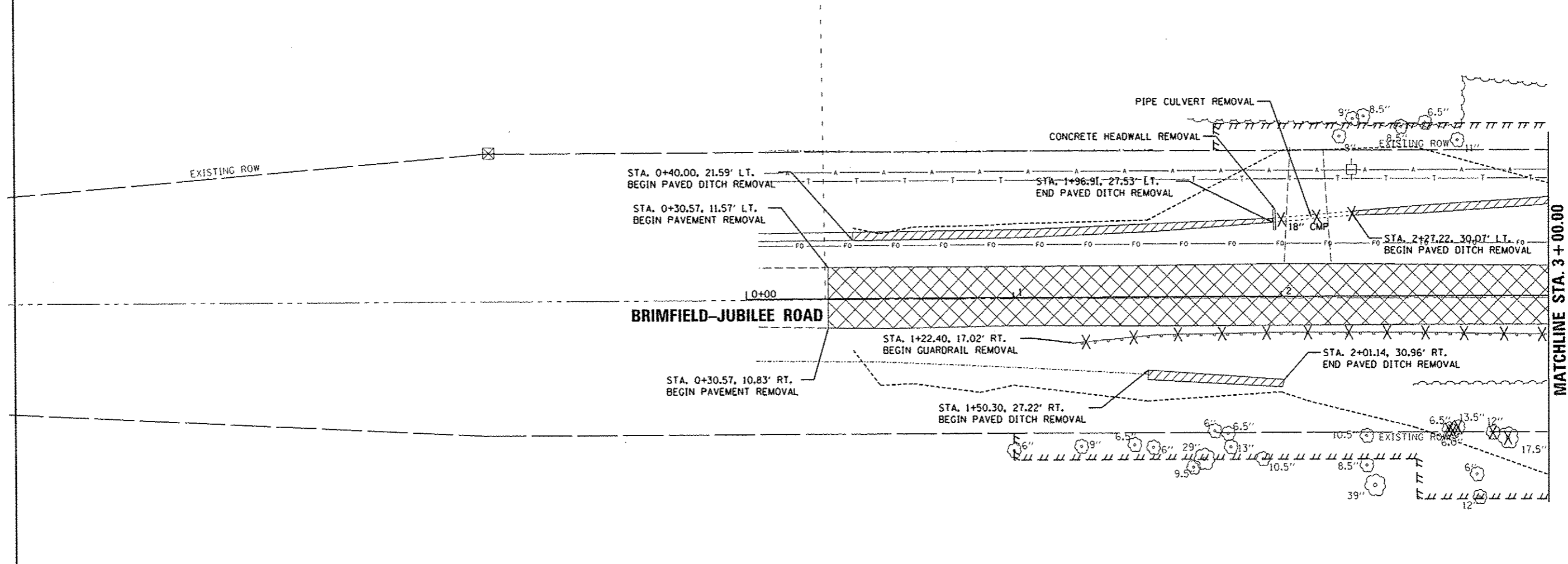
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD	
ALIGNMENT, BENCHMARKS, AND TIES	
SCALE: 1"=40'	SHEET OF SHEETS
STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	8
ILLINOIS FED. AID PROJECT			BROS-01430551	



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LEGEND

- PAVEMENT REMOVAL
- PAVED DITCH REMOVAL
- TREE REMOVAL
- GUARDRAIL REMOVAL
- CULVERT REMOVAL

TREE REMOVAL		
STATION	OFFSET	SIZE
2+62.61	49.77' RT.	6.5"
2+64.00	50.50' RT.	6"
2+66.00	49.00' RT.	13.5"
2+79.00	51.00' RT.	12"
2+84.60	53.00' RT.	17.5"

NOTE: LOCATIONS ARE APPROXIMATE

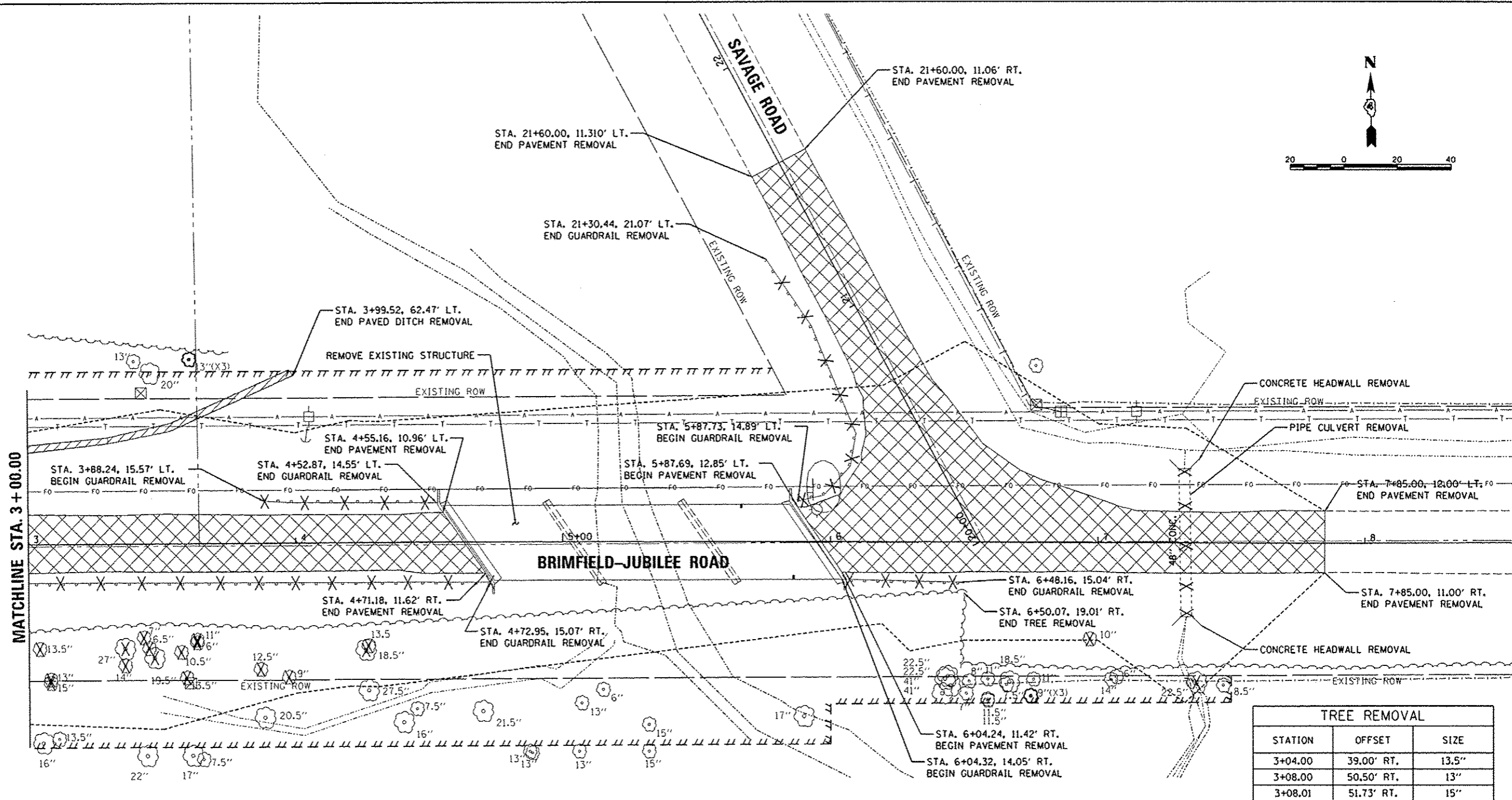
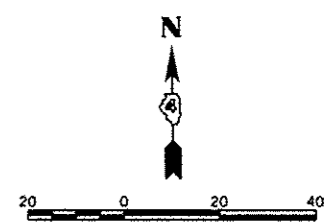
DESIGNED	8/5/13
DRAWN	10/17/2013
REVIEWED	10/15/2013

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		RLA	-
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		CAL	-
	PLOT DATE = 10/16/2013	DATE -	REVISED -
		10/15/2013	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD	
DEMOLITION PLAN	
SCALE: 1"=20'	SHEET OF SHEETS
STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	9
ILLINOIS FED. AID PROJECT			BROS-01430551	
			CONTRACT NO. 89642	



LEGEND

- PAVEMENT REMOVAL
- PAVED DITCH REMOVAL
- TREE REMOVAL
- GUARDRAIL REMOVAL
- CULVERT REMOVAL

TREE REMOVAL		
STATION	OFFSET	SIZE
3+04.00	39.00' RT.	13.5"
3+08.00	50.50' RT.	13"
3+08.01	51.73' RT.	15"
3+36.00	39.00' RT.	27"
3+36.00	45.40' RT.	14"
3+43.00	35.00' RT.	7"
3+45.00	39.00' RT.	6.5"
3+47.00	42.50' RT.	19.5"
3+57.00	40.50' RT.	10"
3+59.00	50.00' RT.	13.5"
3+63.00	36.00' RT.	11"
3+63.00	37.00' RT.	6"
3+86.50	47.00' RT.	12.5"
3+97.00	50.00' RT.	9"
4+26.00	40.00' RT.	18.5"
4+27.00	38.50' RT.	13.5"
6+97.00	36.00' RT.	10"
7+37.00	52.00' RT.	22.5"

NOTE: LOCATIONS ARE APPROXIMATE

DESIGNED	6/5/13
DRAWN	10/14/2013
REVIEWED	10/15/2013

FILE NAME :	USER NAME : andr-00846	DESIGNED - MGD	REVISED -
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Default	Default	CHECKED - CAL	REVISED -
	DATE - 10/15/2013	REVIEWED -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BRIMFIELD-JUBILEE ROAD DEMOLITION PLAN	
SCALE: 1"=20'	SHEET OF SHEETS STA. TO STA.

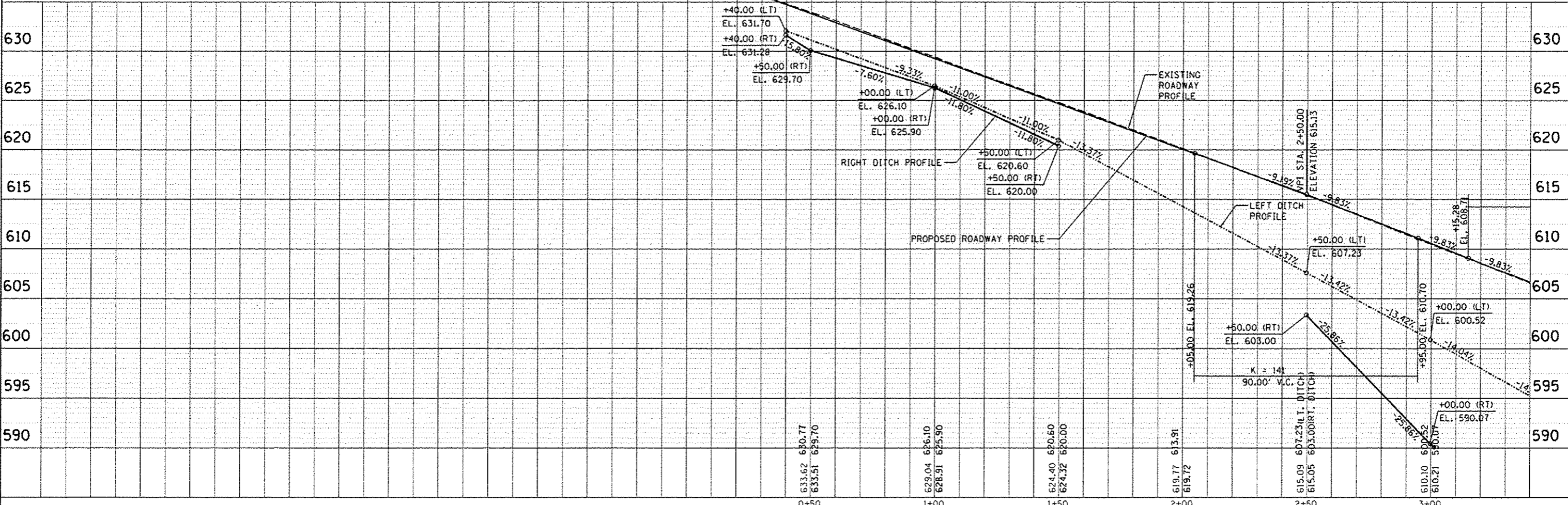
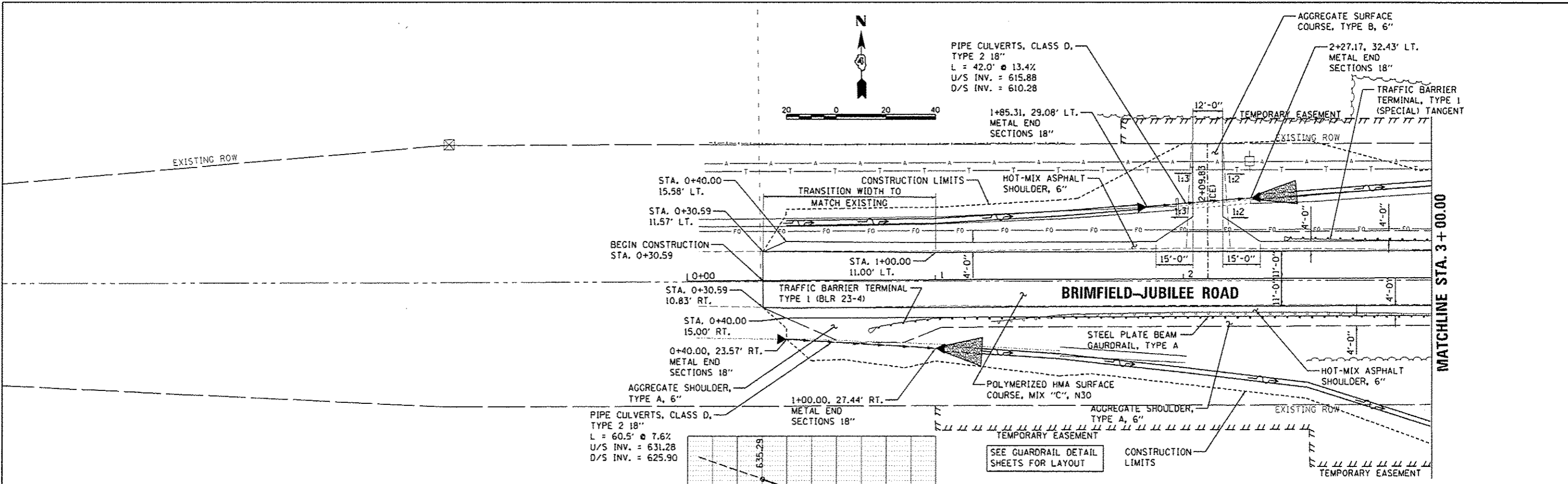
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	10
ILLINOIS FED. AID PROJECT			BROS-01430551	

DATE	
BY	
CHECKED	
PLANNED	
NOTED	
NOTED	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

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Professional Services Inc.

DATE	
BY	
CHECKED	
PLANNED	
NOTED	
NOTED	
NO.	
NO.	
NO.	
NO.	
NO.	

MO	8/5/13
DAY	10/11/2013
TIME	10:15:2013
DESIGNED	
DRAWN	
REVISION	



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
ROADWAY PLAN & PROFILE SHEET**

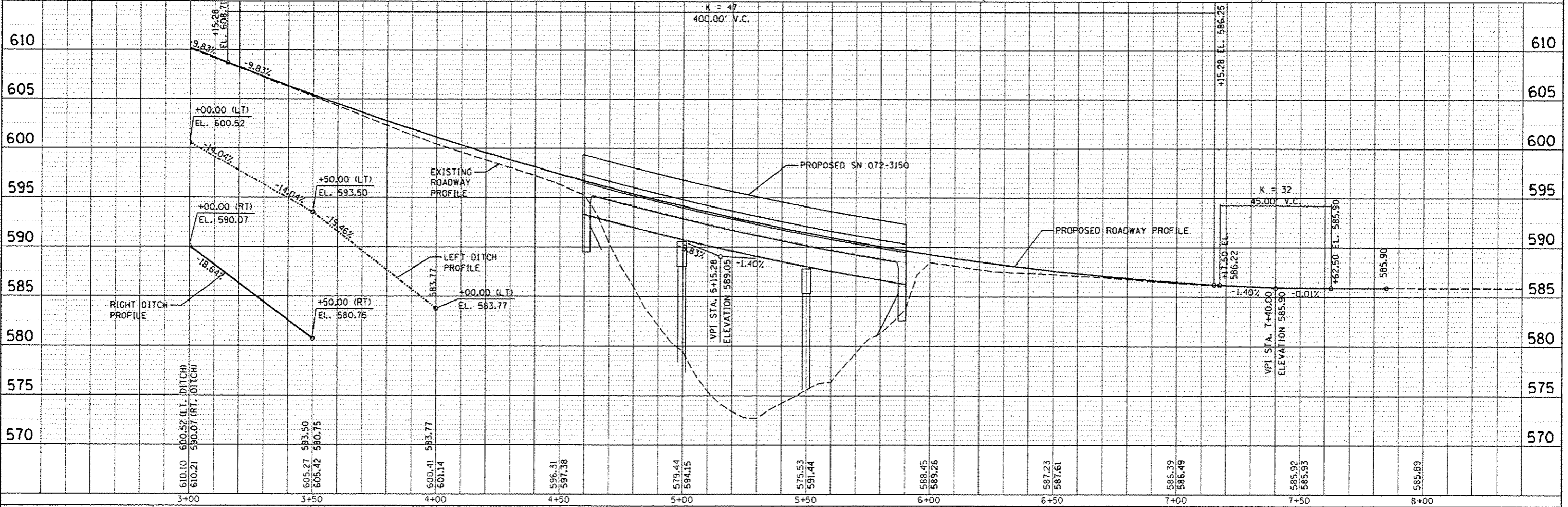
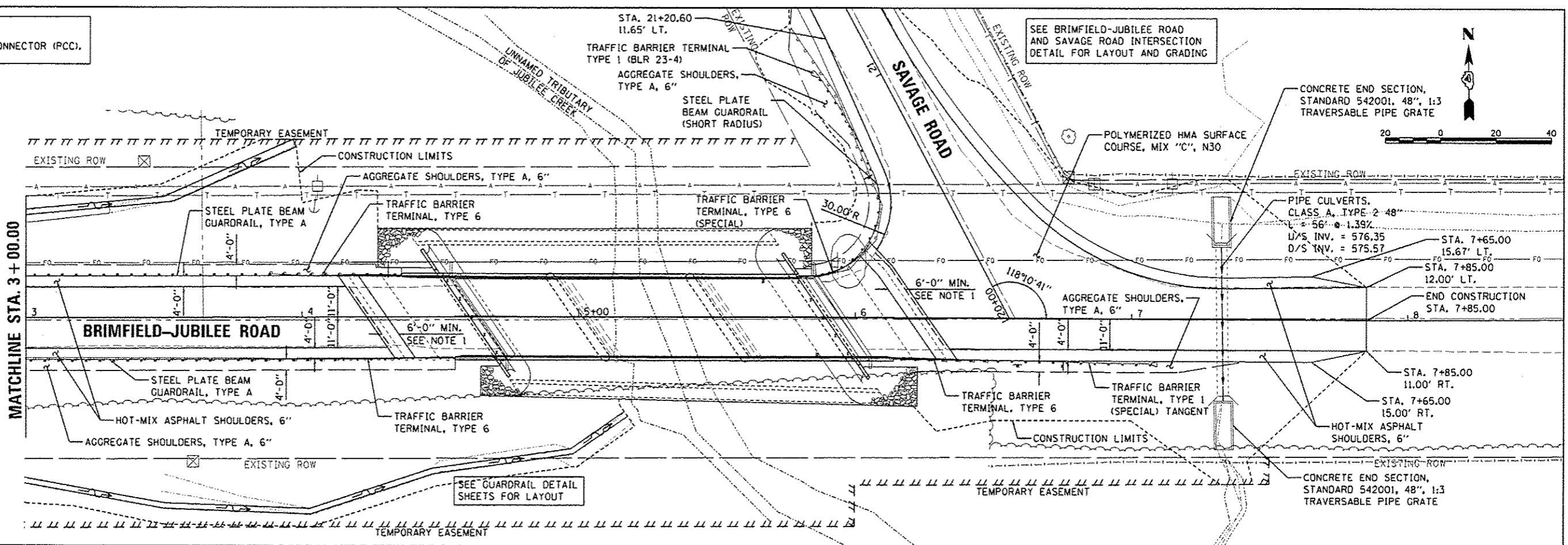
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH029	12-00113-03-BR	PEDRIA	62	11
CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT 8905-0143059				

NOTE 1:
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC).

SEE BRIMFIELD-JUBILEE ROAD
AND SAVAGE ROAD INTERSECTION
DETAIL FOR LAYOUT AND GRADING

CONCRETE END SECTION,
STANDARD 542001, 48", 1:3
TRAVERSABLE PIPE GRATE



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	

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DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
REVIEWED	

MO	8/5/13
DA	10/14/2013
CA	10/15/2013

FILE NAME #	USER NAME # mansk01398	DESIGNED - MGD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIMFIELD-JUBILEE ROAD ROADWAY PLAN & PROFILE SHEET	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT DATE = 10/15/2013	CHECKED - CAL	REVISED -			CONTRACT NO. 89642					
		DATE - 10/15/2013	REVISED -			ILLINOIS FED. AID PROJECT #805-0143055					

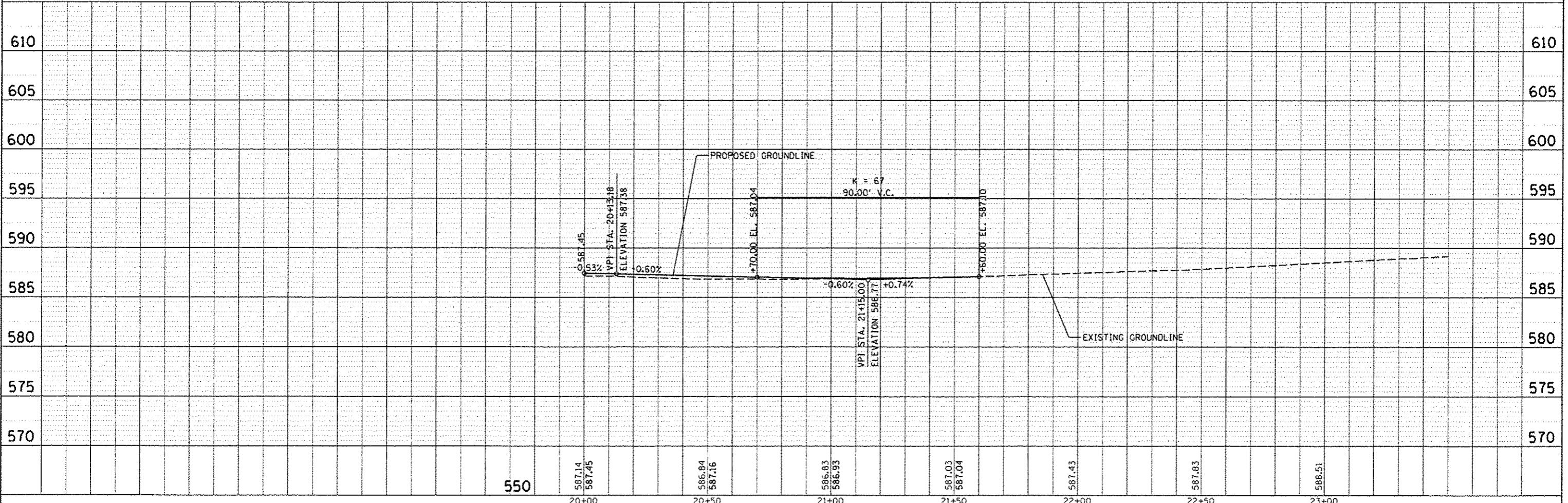
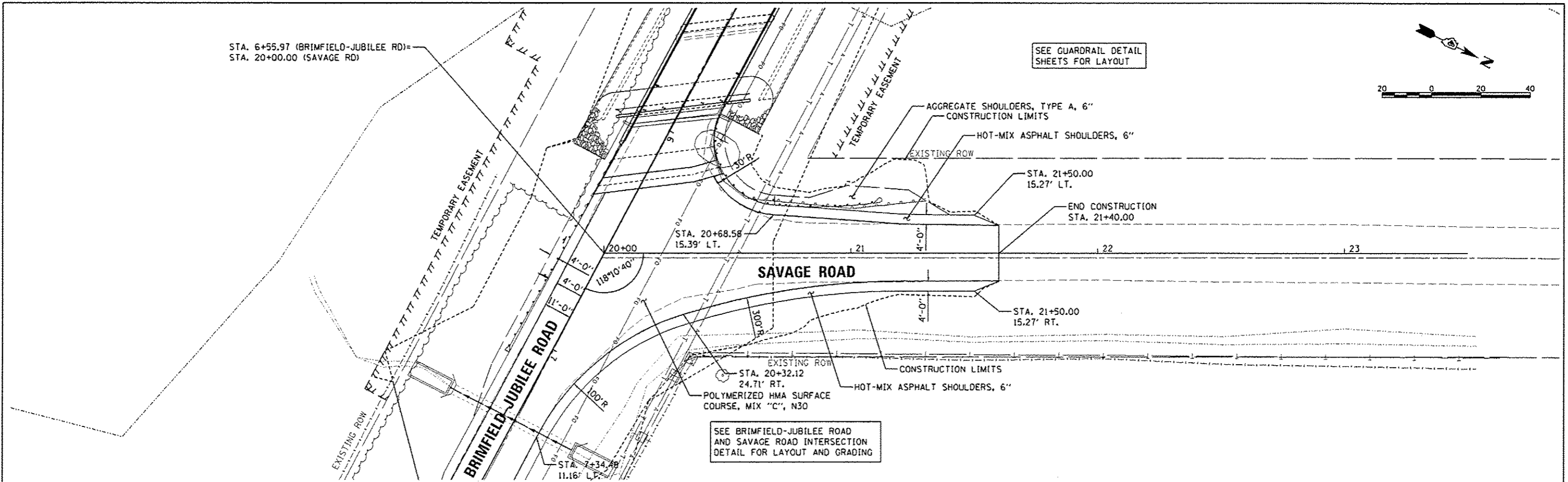
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BY	
REVISION	
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REVISION	
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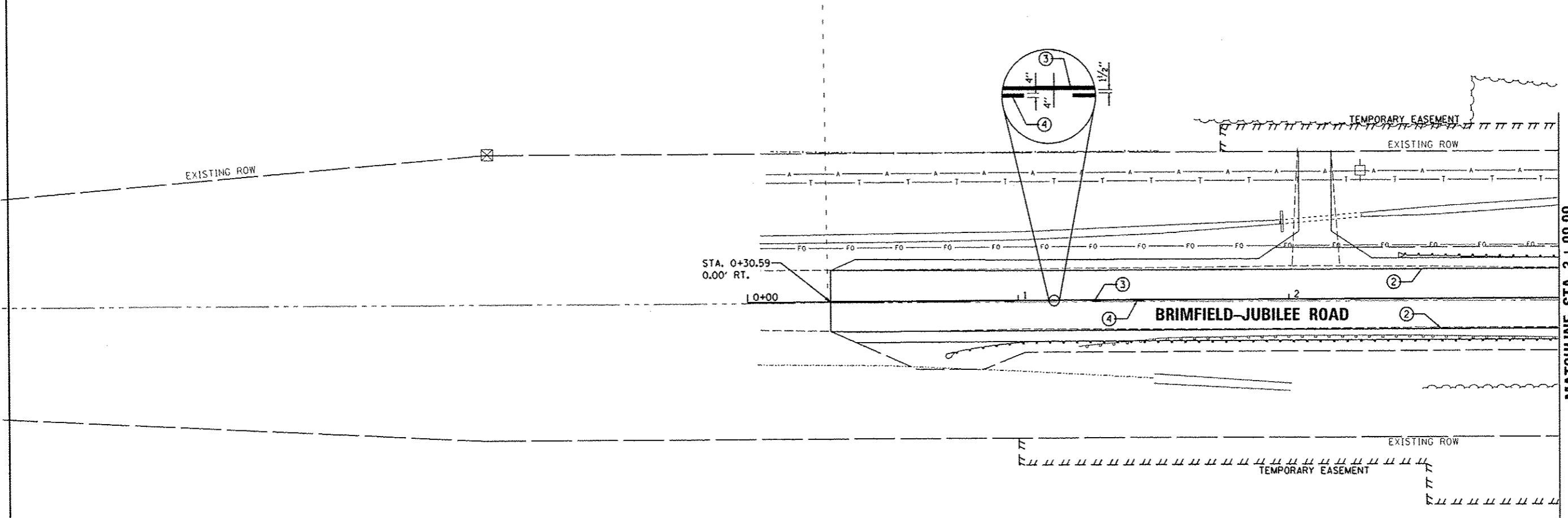
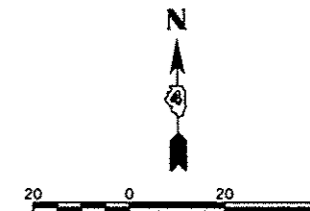
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DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

NO.	8/25/13
BY	10/14/2013
DATE	10/15/2013
DESIGNED	
DRAWN	
CHECKED	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	



FILE NAME	USER NAME = manah01390	DESIGNED - MGD	REVISED -	STATE OF ILLINOIS		SAVAGE ROAD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED - CAL	REVISED -					CONTRACT NO. 89642				
		DATE - 10/15/2013	REVISED -					ILLINOIS FED. AID PROJECT BROS-01430551				
				SCALE: 1"=20'		SHEET OF SHEETS		STA. TO STA.				



LEGEND

- ① WHITE-EPOXY STOP BAR PAVEMENT MARKING LINE - 24" SOLID
- ② WHITE-EPOXY PAVEMENT MARKING LINE - 4" SOLID
- ③ YELLOW-EPOXY PAVEMENT MARKING LINE - 4" SOLID
- ④ YELLOW-EPOXY PAVEMENT MARKING LINE - 10' LONG, 30' GAP - 4"

DESIGNED	MGD	8/5/13
DRAWN	RLA	10/14/2013
REVIEWED	CLL	10/15/2013

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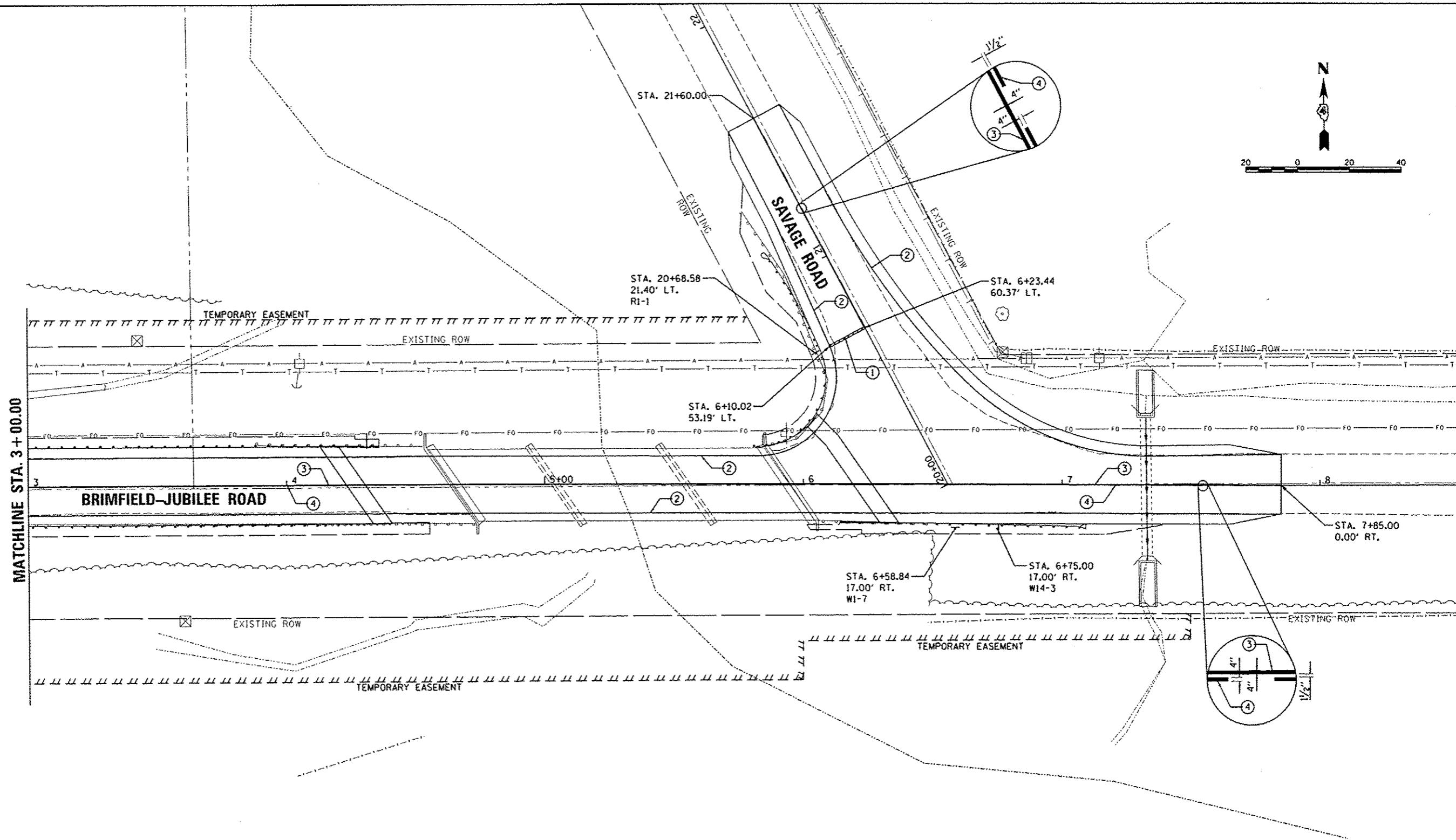
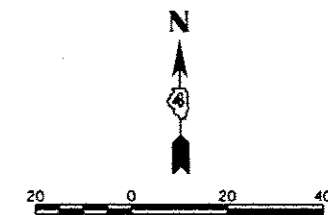
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 PAVEMENT MARKING AND SIGNING PLAN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	14
ILLINOIS FED. AID PROJECT			BPOS-0143(055)	

MATCHLINE STA. 3 + 00.00



LEGEND

- ① WHITE-EPOXY STOP BAR PAVEMENT MARKING LINE - 24" SOLID
- ② WHITE-EPOXY PAVEMENT MARKING LINE - 4" SOLID
- ③ YELLOW-EPOXY PAVEMENT MARKING LINE - 4" SOLID
- ④ YELLOW-EPOXY PAVEMENT MARKING LINE - 10' LONG, 30' GAP - 4"



RI-1
30"x30"



W1-7
48"x24"



W14-3
48"x48"x36"

DESIGNED	8/5/13
DRAWN	10/17/2013
REVIEWED	10/15/2013

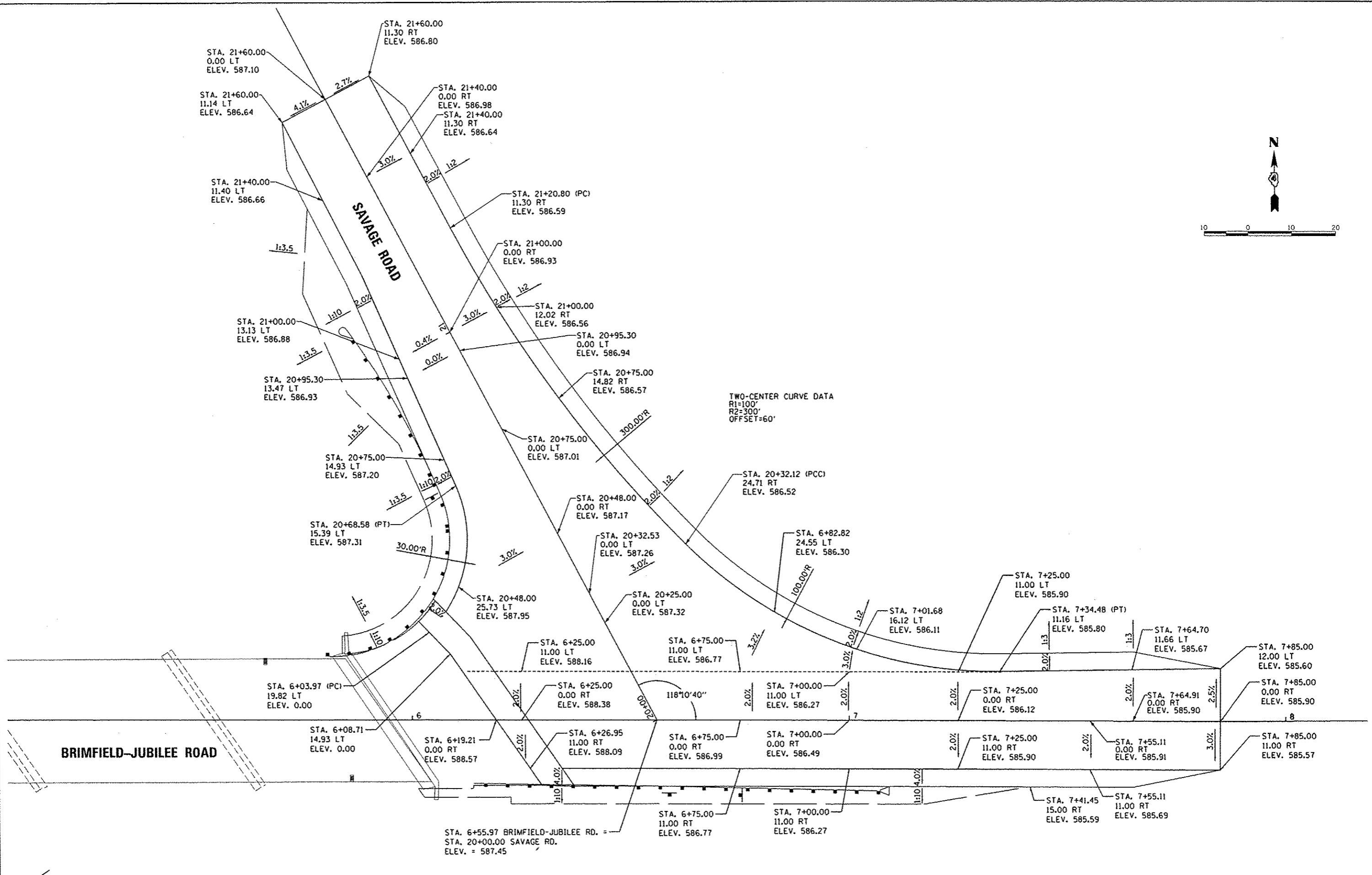
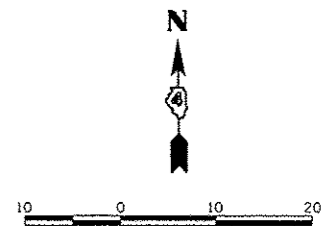
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 PAVEMENT MARKING AND SIGNING PLAN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT BR05-0143(055)				



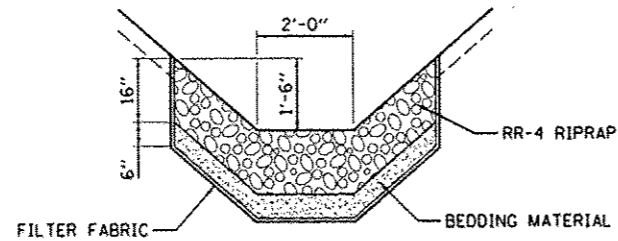
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DRAWN	RLA	10/17/2013
REVIEWED	CAL	10/15/2013

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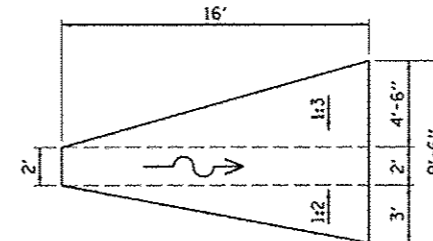
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIMFIELD-JUBILEE ROAD AND SAVAGE ROAD INTERSECTION DETAIL	
SCALE: 1"=10'	SHEET OF SHEETS STA. TO STA.

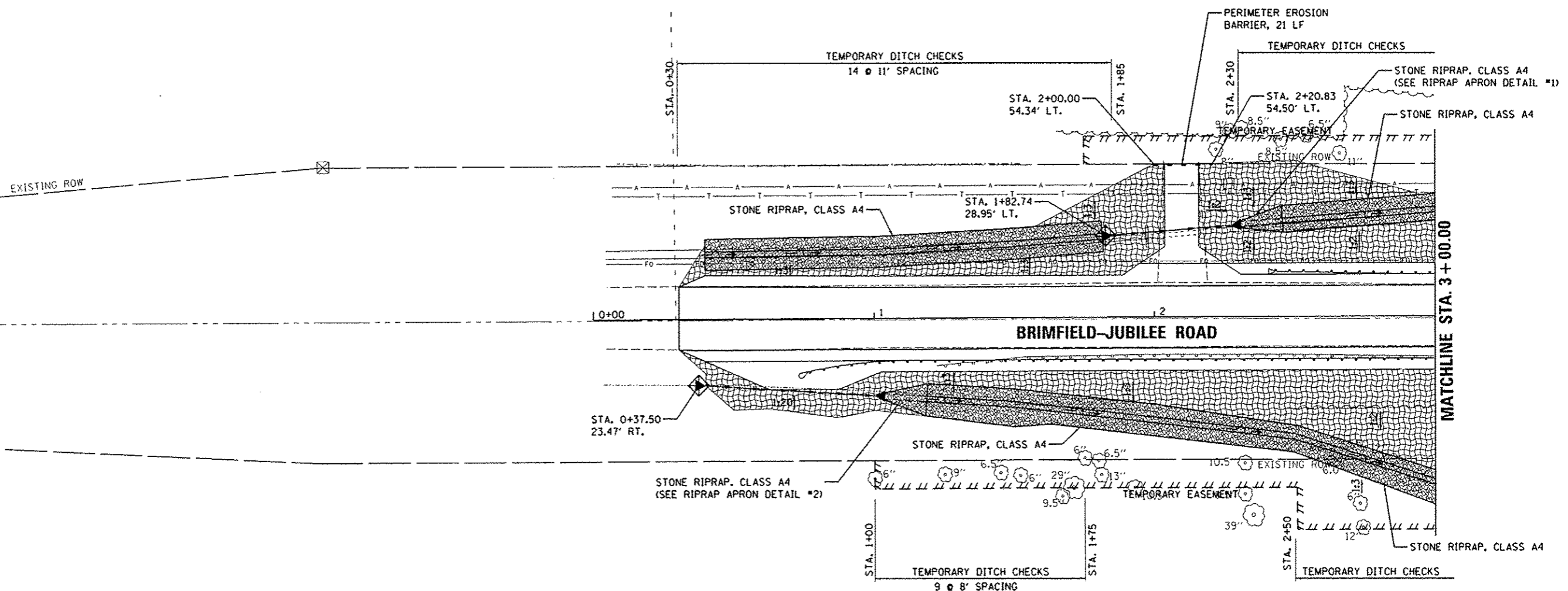
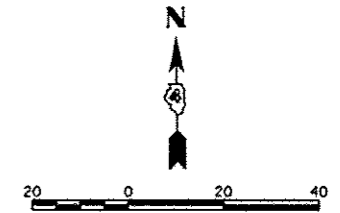
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CHD29	12-00113-03-BR	PEORIA	62	16
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT BR05-0143055	



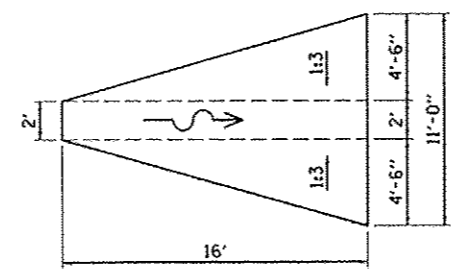
RIPRAP DITCH BOTTOM DETAIL



RIPRAP APRON DETAIL #1



- LEGEND**
- INLET AND PIPE PROTECTION
 - TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER
 - TREE TRUNK PROTECTION
 - STONE RIPRAP, CLASS A4
 - HEAVY DUTY EROSION CONTROL BLANKET
 - TURF REINFORCEMENT MAT



RIPRAP APRON DETAIL #2

- NOTES:**
- ALL DISTURBED AREAS NOT COVERED BY RIPRAP SHALL RECEIVE SEEDING, CLASS 3A AND BE COVERED WITH HEAVY DUTY EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT AS INDICATED.

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DESIGNED	8/5/13
DRAWN	10/14/2013
REVIEWED	10/15/2013

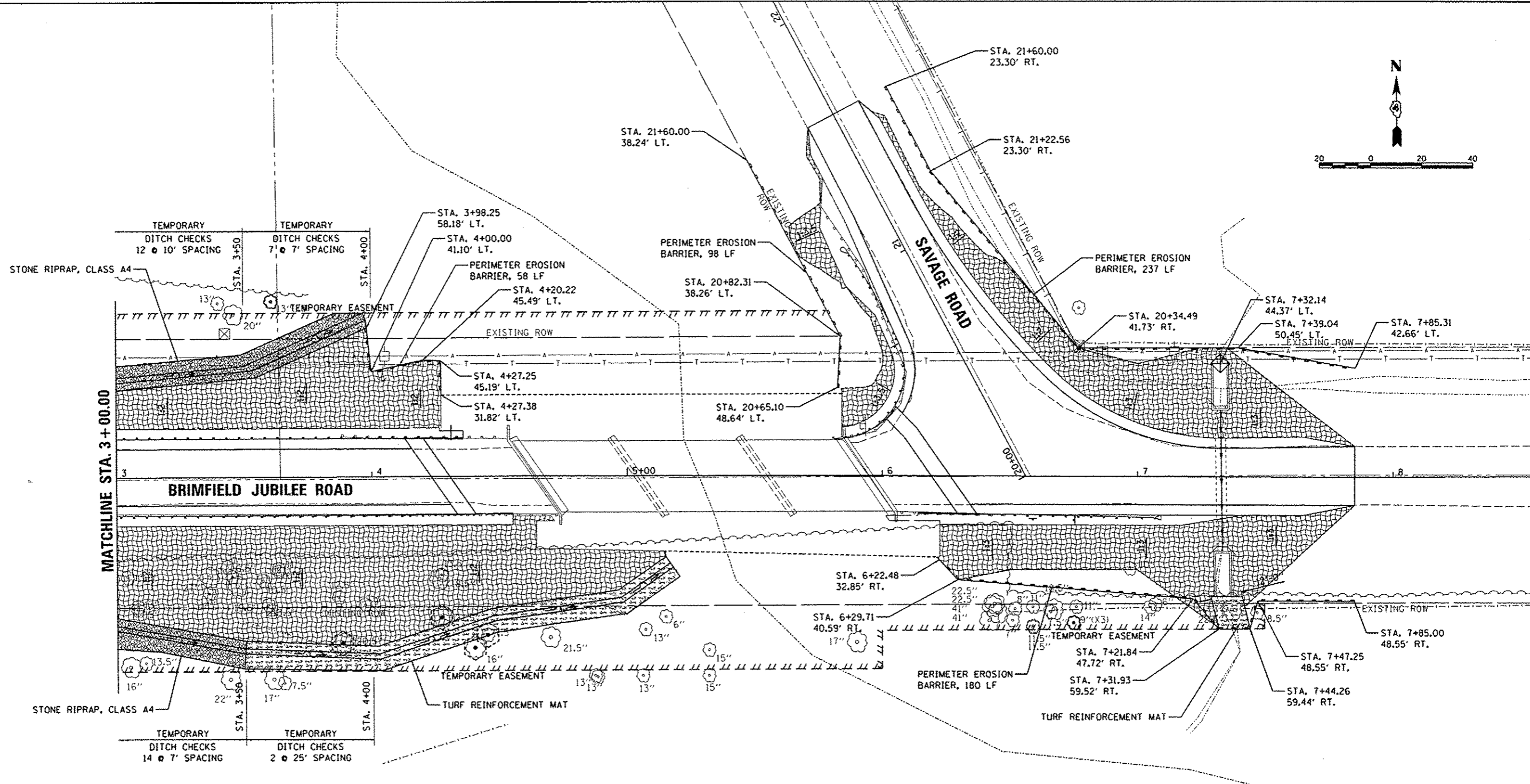
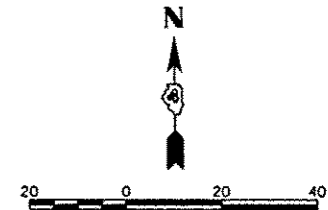
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
EROSION CONTROL PLAN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	17
ILLINOISIFIED AIG PROJECT			CONTRACT NO. 89642	
			BROS-01430551	



LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TREE TRUNK PROTECTION
- STONE RIPRAP, CLASS A4
- HEAVY DUTY EROSION CONTROL BLANKET
- TURF REINFORCEMENT MAT

NOTES:

1. ALL DISTURBED AREAS NOT COVERED BY RIPRAP SHALL RECEIVE SEEDING, CLASS 3A AND BE COVERED WITH HEAVY DUTY EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT AS INDICATED.

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DRAWN	RLA	10/14/2013
CHECKED	CAL	10/15/2013
DATE		

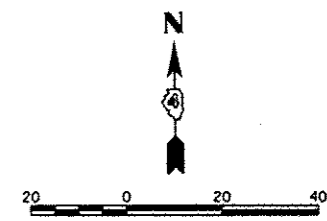
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		10/15/2013	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

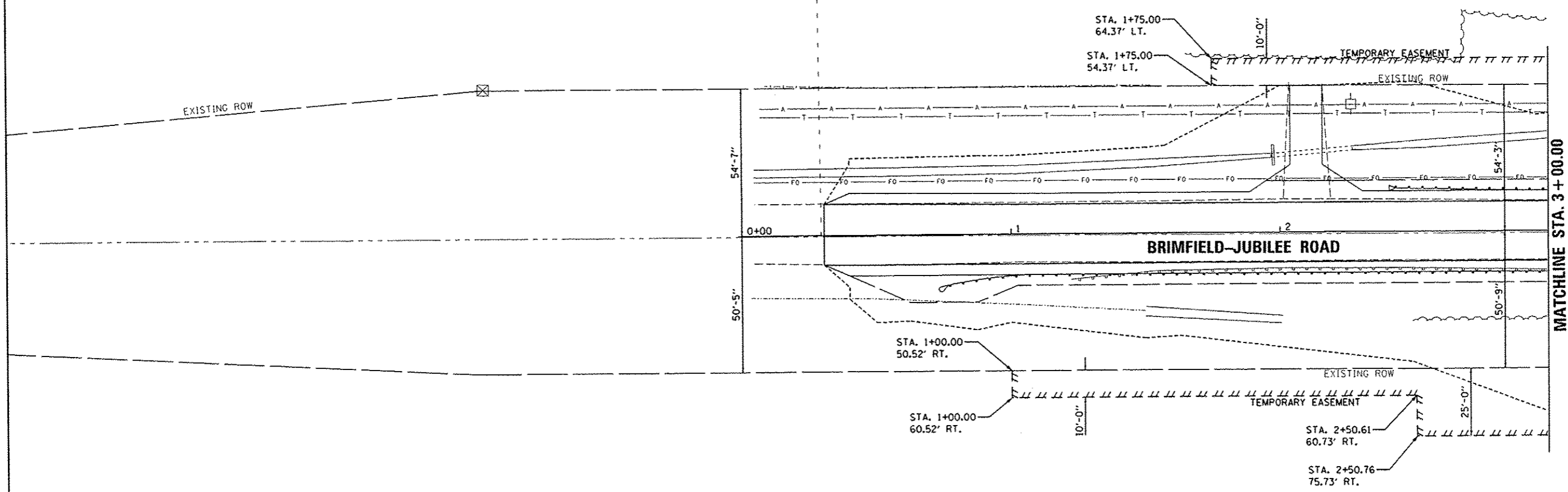
**BRIMFIELD-JUBILEE ROAD
 EROSION CONTROL PLAN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	18
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT BR05-01(1055)	



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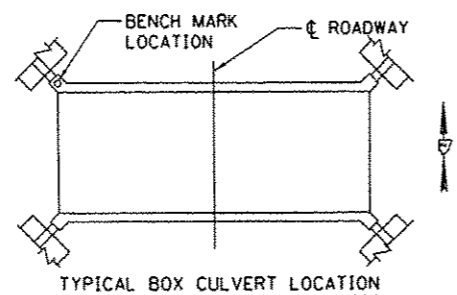
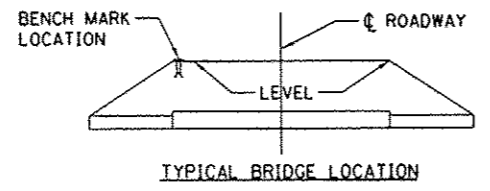
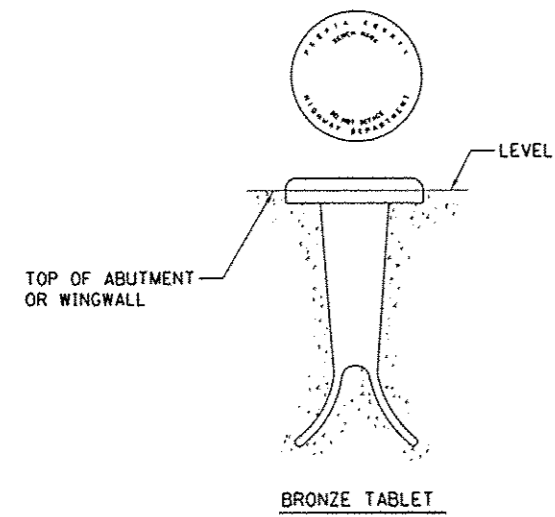
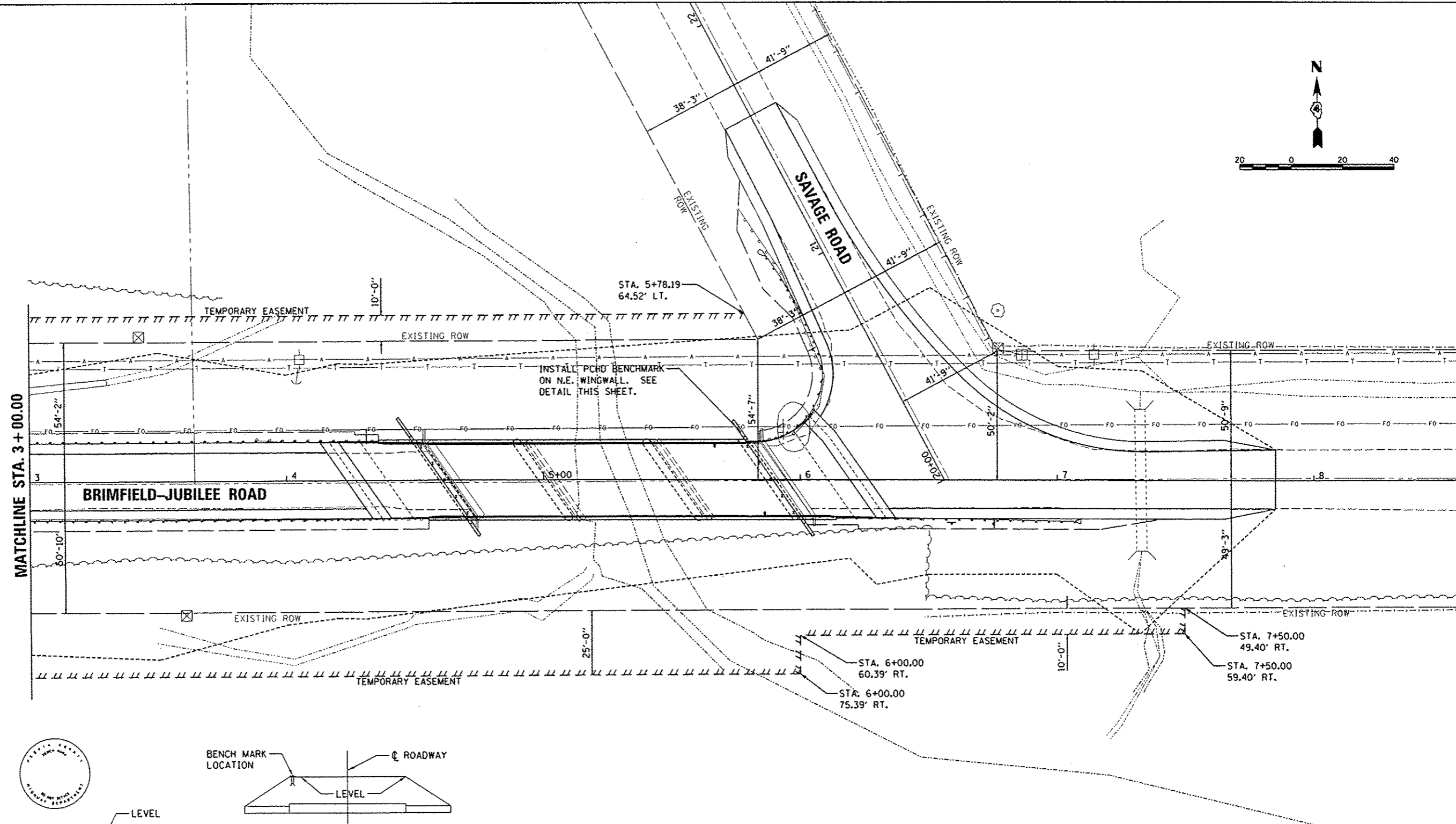
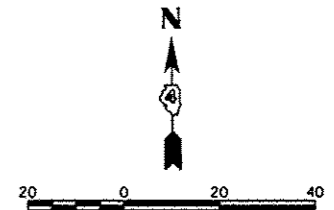
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CHECKED	CAL	10/15/2013
REVIEWED		

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		CAL	-
		DATE :	REVISED :
		10/15/2013	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD RIGHT-OF-WAY PLAN	
SCALE: 1"=20'	SHEET OF SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	19
CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT BR05-01430551				



PEORIA COUNTY HIGHWAY DEPARTMENT BENCHMARK

THE BENCH MARK SHALL BE INSTALLED AT THE NORTHEAST CORNER OF THE PROPOSED BRIDGE OR BOX CULVERT IN ACCORDANCE WITH THE DETAILS SHOWN BELOW. IN GENERAL, THE BENCH MARK WILL BE PLACED IN A LEVEL AREA IN THE ABUTMENT OF THE BRIDGE OR WINGWALL OF THE BOX CULVERT SO AS TO BE READILY ACCESSIBLE.
 THE BENCH MARK SHALL BE PLACED UNDER THE DIRECTION OF THE ENGINEER AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER.
 THE ELEVATION SHALL BE PERMANENTLY MARKED BY THE USE OF METAL DIES AFTER THE BENCH MARK HAS BEEN INSTALLED. THE ELEVATION WILL BE BASED ON U.S.G.S. DATUM.
 THE BRONZE TABLE, TO BE INSTALLED AS THE BENCH MARK SHALL BE FURNISHED BY THE PEORIA COUNTY HIGHWAY DEPARTMENT.

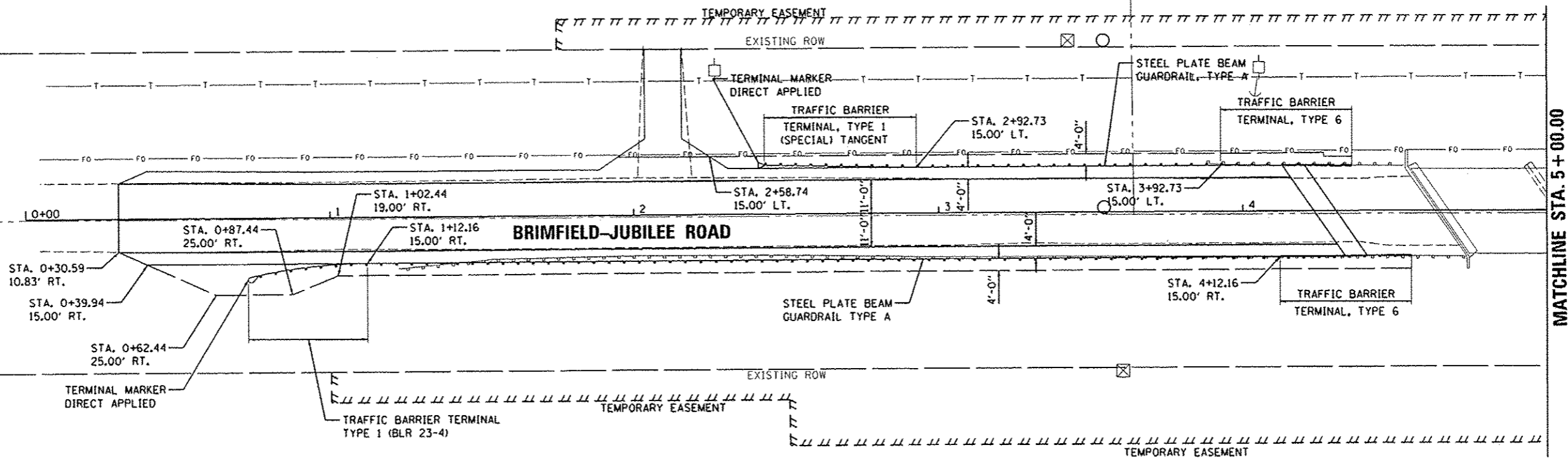
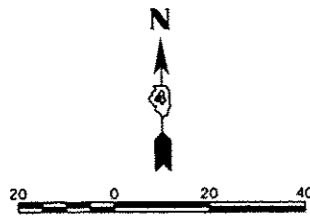
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REVIEWED	CAL	10/15/2013

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		CHECKED -	REVISED -
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		DATE -	REVISED -
		10/15/2013	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BRIMFIELD-JUBILEE ROAD RIGHT-OF-WAY PLAN	
SCALE: 1"=20'	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	20
ILLINOIS FED. AID PROJECT			BROS-01430591	



MATCHLINE STA. 5 + 00.00

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DESIGNED	MGD	8/5/13
DRAWN	RLA	10/14/2013
CHECKED	CAL	10/15/2013
REVIEWED		

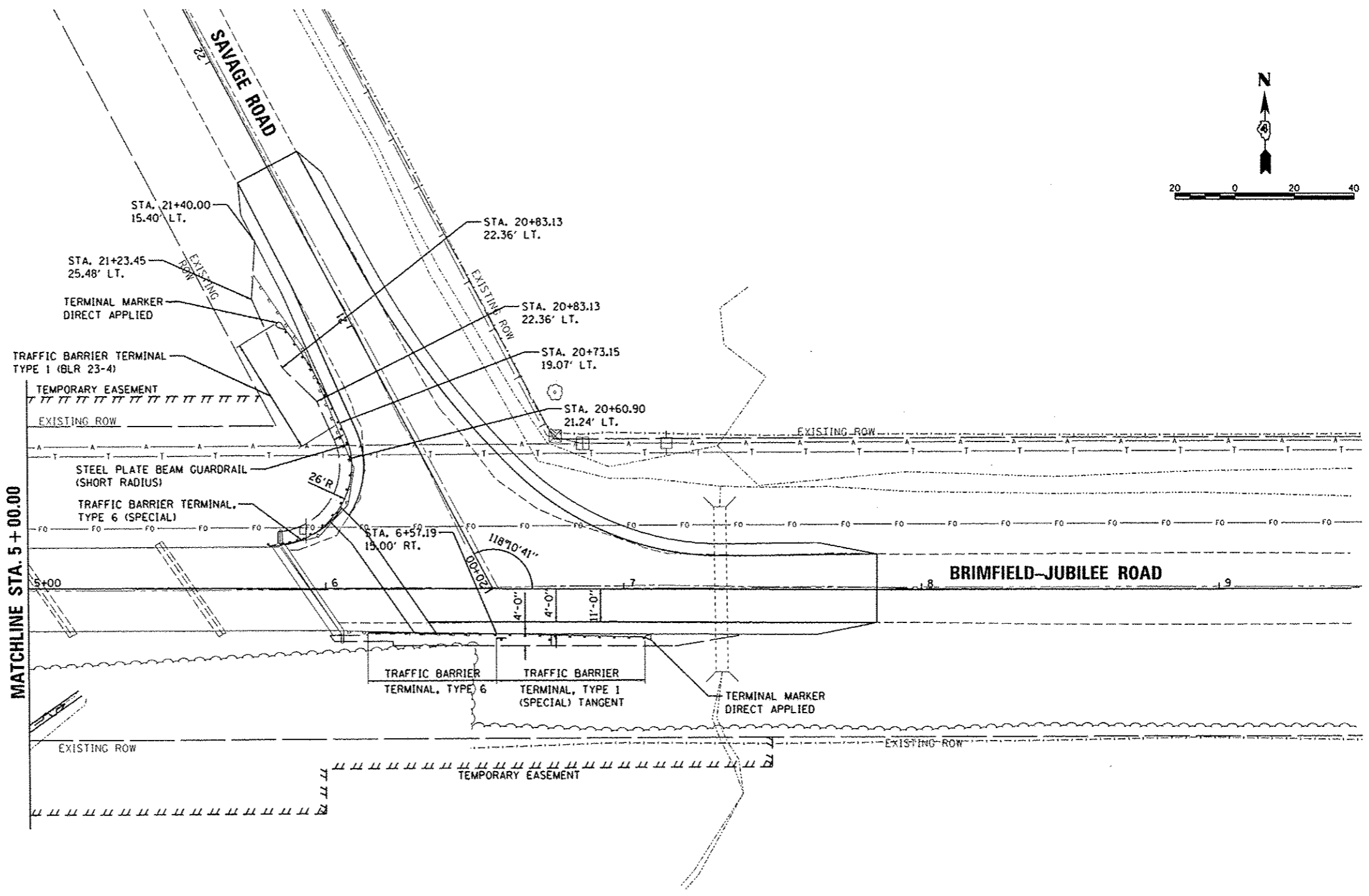
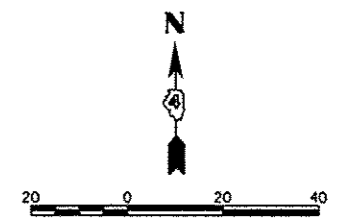
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
GUARDRAIL DETAIL**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	21
CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT BR05-01430551				



DESIGNED	MGD	8/5/13
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REVIEWED	CAL	07/19/2013

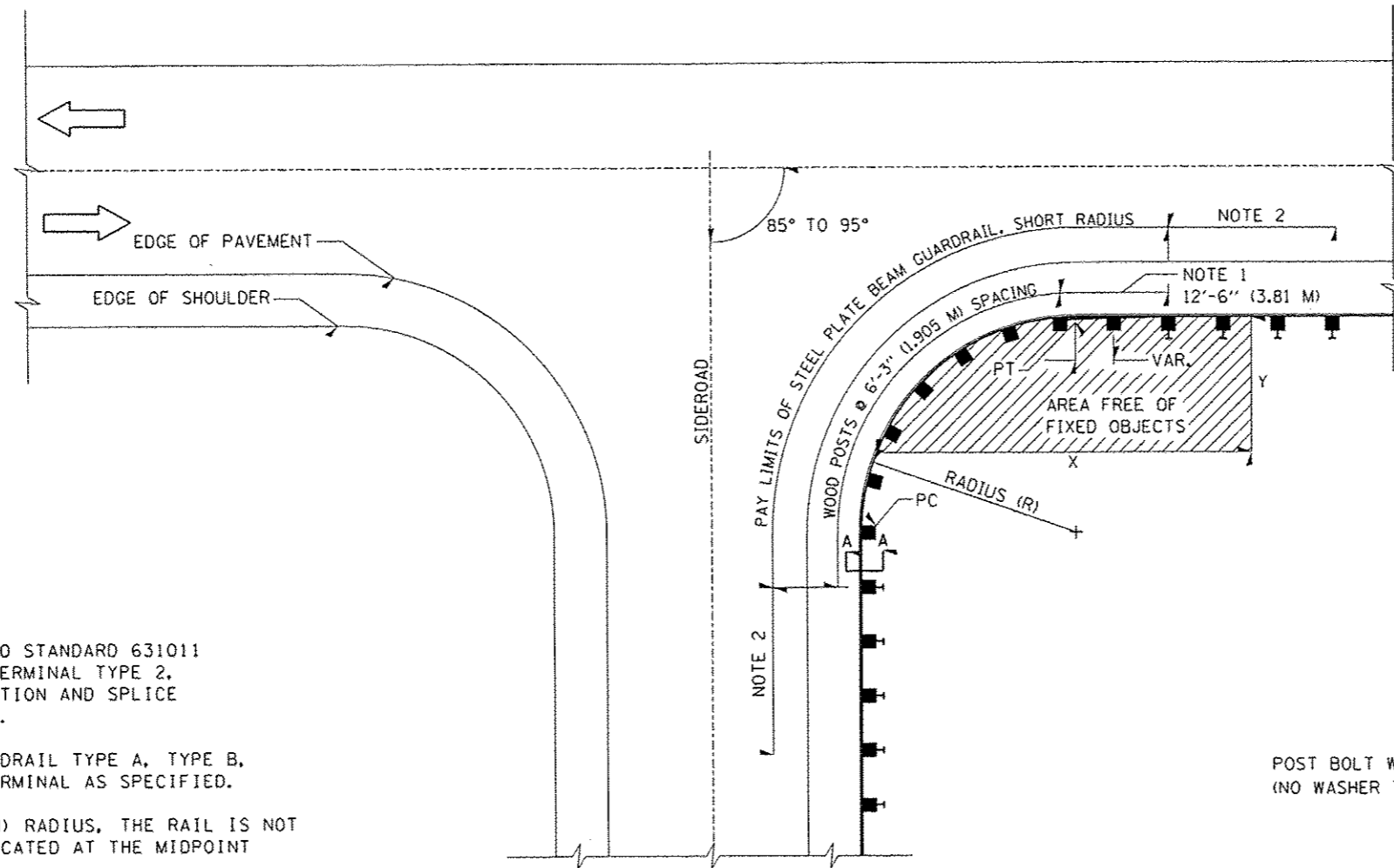
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		10/15/2013	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIMFIELD-JUBILEE ROAD
 GUARDRAIL DETAIL**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH029	12-00113-03-BR	PEORIA	62	22
CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT BR05-0143(055)				



PLAN

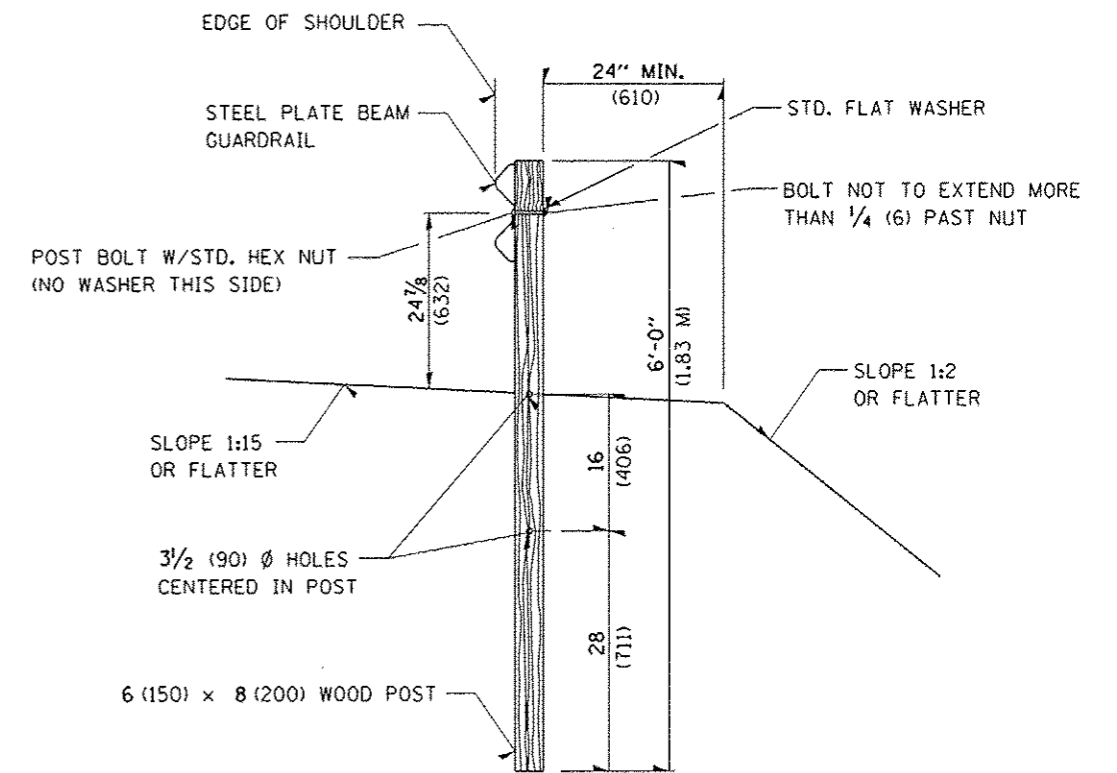
NOTES

1. CONSTRUCT ACCORDING TO STANDARD 631011 FOR TRAFFIC BARRIER TERMINAL TYPE 2, EXCEPT DELETE END SECTION AND SPLICE INTO RADIUS GUARDRAIL.
2. STEEL PLATE BEAM GUARDRAIL TYPE A, TYPE B, OR TRAFFIC BARRIER TERMINAL AS SPECIFIED.
3. FOR THE 8'-6" (2.59 M) RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.

GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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



SECTION A-A

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
8'-6" (2.59)	5 (NOTE 3)	25' (7.6 m)	15' (4.6)
17'-0" (5.18)	6	30' (9.1 m)	15' (4.6)
25'-6" (7.77)	8	40' (12.2 m)	20' (6.1)
35'-0" (10.67)	11	50' (15.2 m)	20' (6.1)

DESIGNED	8/5/13
DRAWN	10/14/2013
REVIEWED	10/15/2013

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		DATE - 10/15/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89642	
			BROS-01416551	

B.M.#1 : Spike Nail in power pole - 1+87.55, 49.80' Lt. - El. 624.14
 B.M.#2 : Spike Nail in power pole - 7+14.54, 48.23' Lt. - El. 580.30

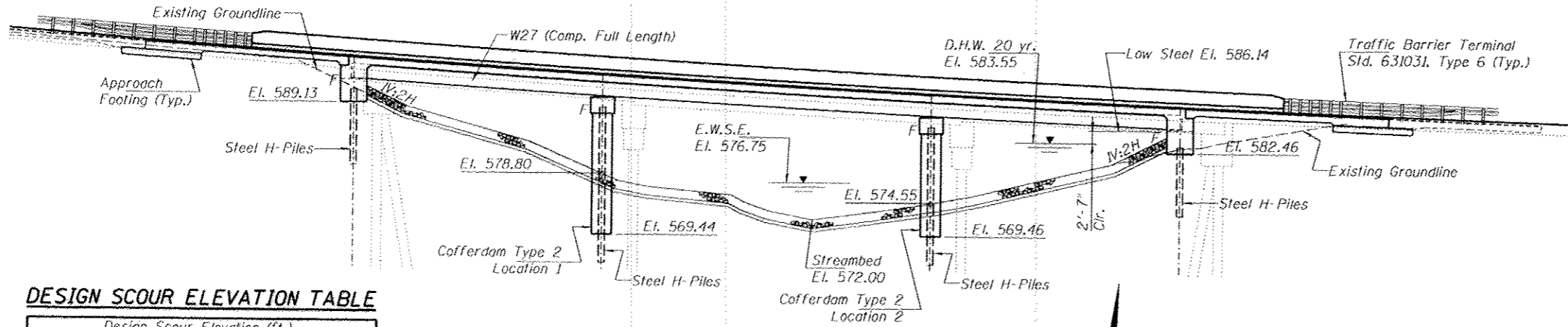
Existing Structure (No. 072-3011):

The existing structure is a three span structure that is approximately 133 feet long and 28 feet wide. The original structure was built in 1958. In 2002, the superstructure was entirely removed and replaced using 21 inch and 27 inch precast prestressed concrete deck beams with a bituminous overlay. All substructure elements were re-used. In 2009, settlement of the west pier was noticed. In 2012, an overlay was applied which attempted to smooth the profile. The additional weight of the overlay has caused a further progression of the settlement.

The existing structure is closed to traffic and will remain closed during construction.
 No Salvage

WATERWAY INFORMATION TABLE

Drainage Area = 6.92 Sq. Mi. Roadway Elevation = 593.0 ± at Flow Line of Creek									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	2130	579.1	573.0	583.55	0.06	0.06	583.61	583.61
Base	100	3170	709.5	701.0	585.18	0.07	0.07	585.25	585.25



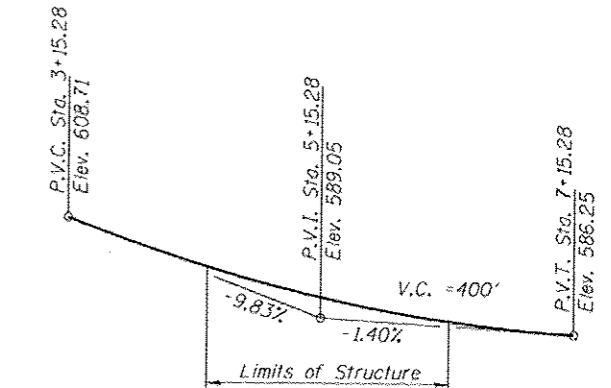
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)				
	W. Abut.	Pier 1	Pier 2	E. Abut.
0100	588.6	571.5	569.7	582.5

ELEVATION

PROFILE GRADE - BRIMFIELD JUBILEE ROAD

(Along C of Roadway)



DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)

DESIGN SPECIFICATIONS

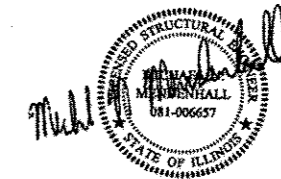
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

LOADING HL-93

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

SEISMIC DATA

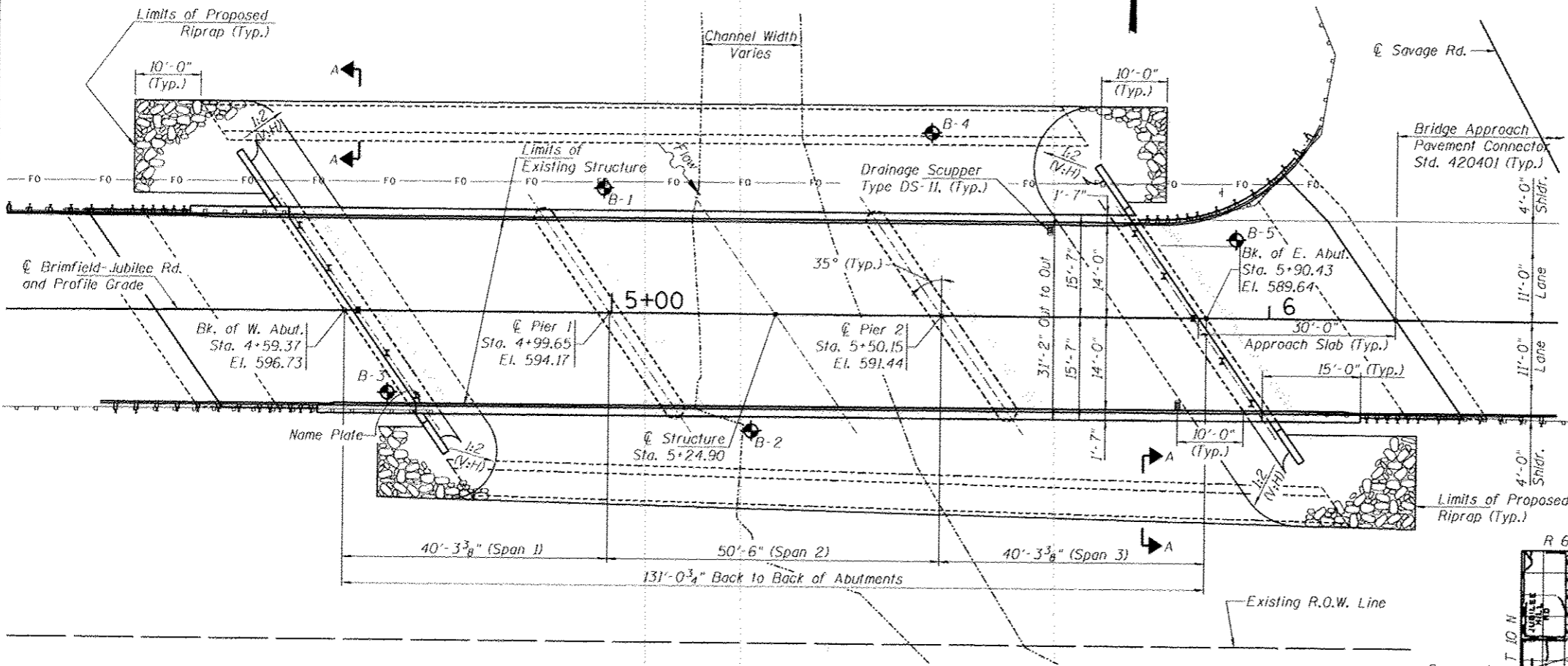
Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.077
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.132
 Soil Site Class = C



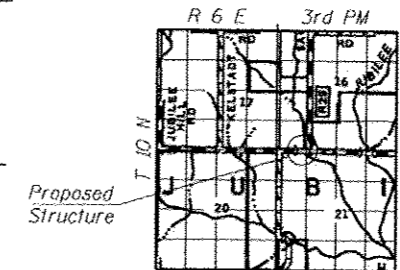
SIGNATURE
 10/11/13
 DATE

LIC. EXP. DATE: 11-30-14

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Specifications.



PLAN



LOCATION SKETCH

GENERAL PLAN
BRIMFIELD-JUBILEE ROAD OVER
UNNAMED TRIBUTARY of JUBILEE CREEK
C.H. D29 - SECTION 12-00113-03-BR
PEORIA COUNTY
STATION 5+24.90
STRUCTURE NO. 072-3150

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USER NAME - ANDER00846	DESIGNED - JGT	REVISED
CHECKED - MNM	REVISED	
DRAWN - DAP	REVISED	
CHECKED - JGT	REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 072-3150

SHEET NO. 1 OF 26 SHEETS

F.A. RTE. CH 029	SECTION 12-00113-03-BR	COUNTY PEORIA	TOTAL SHEETS 62	SHEET NO. 24
			CONTRACT NO. 89642	

ILLINOIS FED. AID PROJECT

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.

Calculated weight of Structural Steel = 63120 lbs.

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

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

The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.

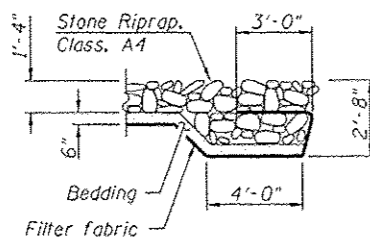
Slipforming of the parapets is not allowed.

INDEX OF SHEETS

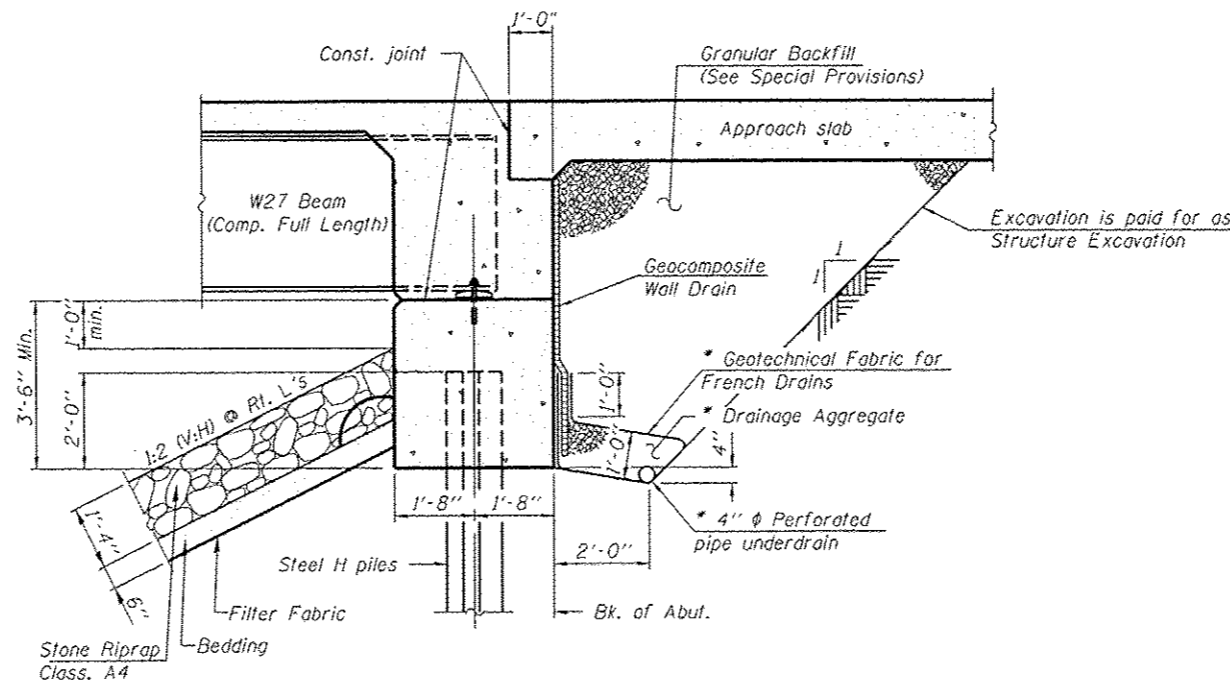
1. General Plan
2. General Data
3. Substructure Layout and Cofferdam Details
4. Top of Deck Elevations (Sheet 1 of 2)
5. Top of Deck Elevations (Sheet 2 of 2)
6. Top of West Approach Slab Elevations
7. Top of East Approach Slab Elevations
8. Superstructure Plan and Deck Cross Section
9. Superstructure Details
10. Integral Abutment and Diaphragm Details
11. Cast-In-Place Bridge Approach Slab Details (Sheet 1 of 4)
12. Cast-In-Place Bridge Approach Slab Details (Sheet 2 of 4)
13. Cast-In-Place Bridge Approach Slab Details (Sheet 3 of 4)
14. Cast-In-Place Bridge Approach Slab Details (Sheet 4 of 4)
15. Drainage Scupper DS-11
16. Structural Steel - Framing Plan
17. Structural Steel Details
18. Bearing Details
19. West Abutment
20. East Abutment
21. Pier Number 1
22. Pier Number 2
23. HP Pile Details
24. Cantilever Forming Brackets
25. Subsurface Data Profile (Sheet 1 of 2)
26. Subsurface Data Profile (Sheet 2 of 2)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	---	1114	1114
Filter Fabric	Sq. Yd.	---	1114	1114
Removal of Existing Structures	Each	---	---	1
Structure Excavation	Cu. Yd.	---	172	172
Cofferdam Excavation	Cu. Yd.	---	250	250
Cofferdam (Type 2) (Locaton - 1)	Each	---	1	1
Cofferdam (Type 2) (Locaton - 2)	Each	---	1	1
Concrete Structures	Cu. Yd.	---	176.2	176.2
Concrete Superstructure	Cu. Yd.	250.9	---	250.9
Bridge Deck Grooving	Sq. Yd.	554	---	554
Protective Coat	Sq. Yd.	731	---	731
Furnishing and Erecting Structural Steel	L. Sum	1	---	1
Stud Shear Connectors	Each	2910	---	2910
Reinforcement Bars, Epoxy Coated	Pound	62220	20110	82330
Furnishing Steel Piles HP 12x53	Foot	---	280	280
Furnishing Steel Piles HP 12x63	Foot	---	340	340
Driving Piles	Foot	---	620	620
Test Pile Steel HP 12x53	Each	---	2	2
Test Pile Steel HP 12x63	Each	---	2	2
Pile Shoes	Each	---	5	5
Name Plates	Each	1	---	1
Anchor Bolts, 5/8"	Each	---	20	20
Anchor Bolts, 1"	Each	---	20	20
Geocomposite Wall Drain	Sq. Yd.	---	71	71
Granular Backfill for Structures	Cu. Yd.	---	117	117
Drainage Scuppers, DS-11	Each	2	---	2
Pipe Underdrains for Structures 4"	Foot	---	153	153



SECTION A-A



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

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

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

UNNAMED TRIBUTARY OF JUBILEE CREEK
 BUILT 20__ BY
 PEORIA COUNTY
 SEC. 12-00113-03-BR
 COUNTY HIGHWAY D29 - STA. 5+24.90
 STR. NO. 072-3150 LOADING HL-93

NAME PLATE
 See Std. 515001

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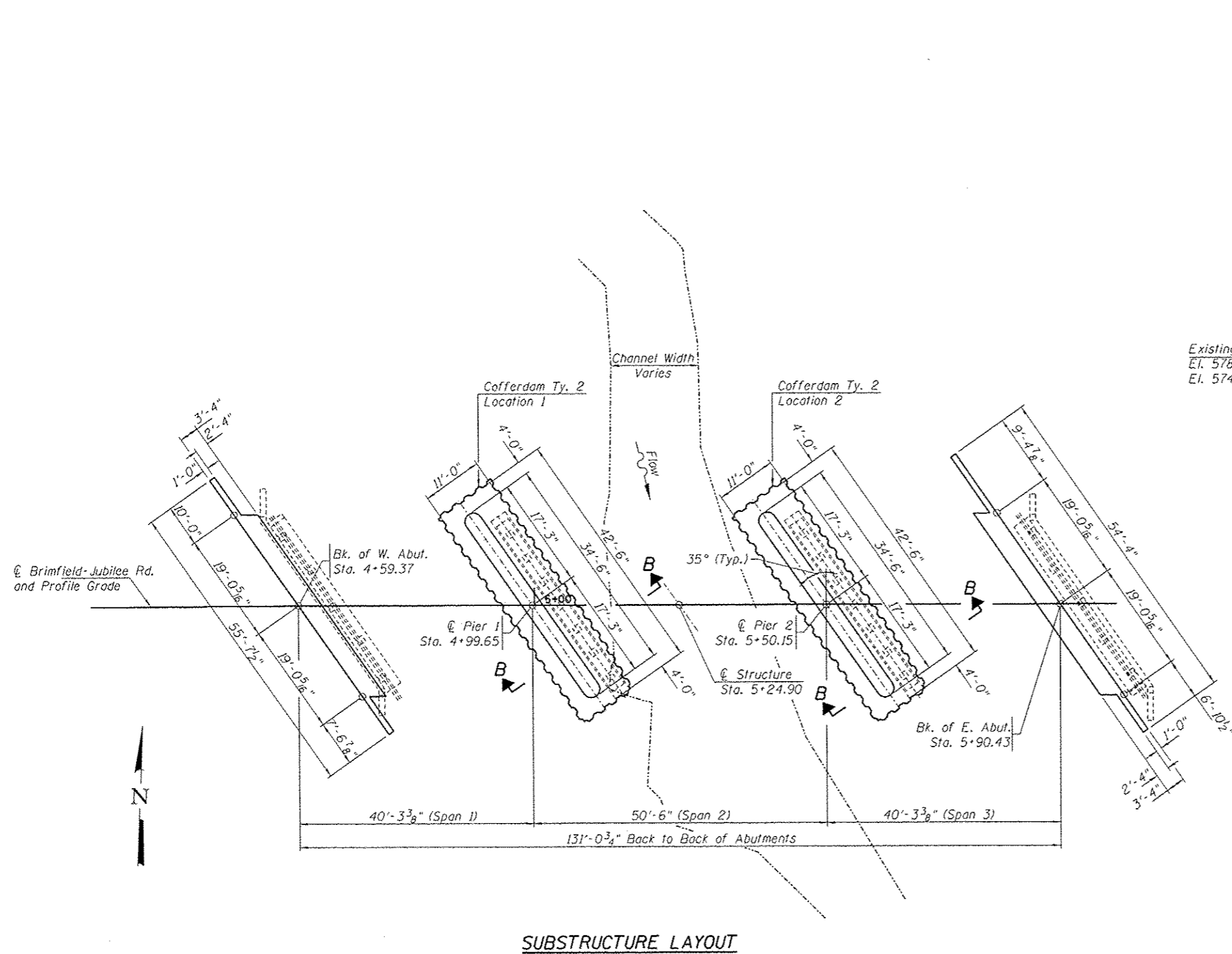
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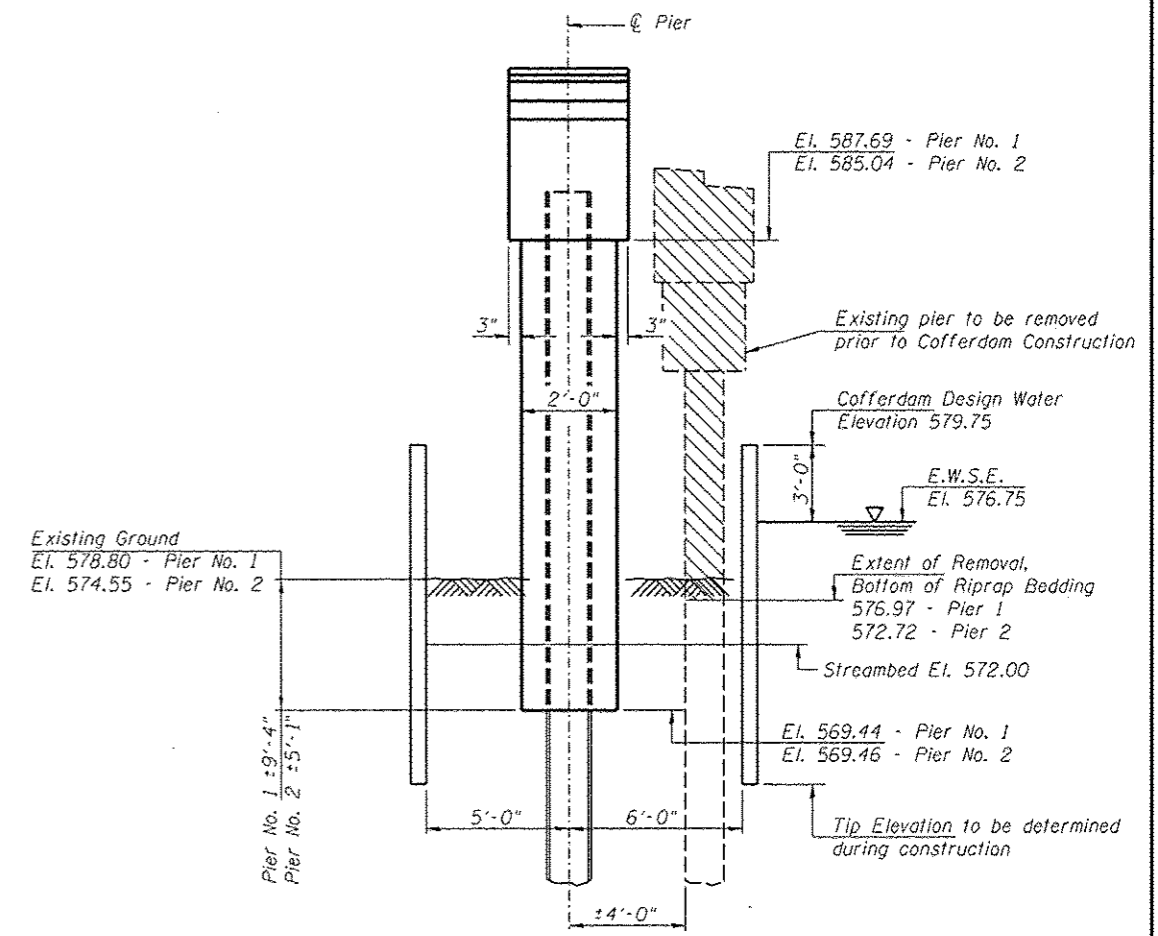
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 STRUCTURE NO. 072-3150

SHEET NO. 2 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	25
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	



SUBSTRUCTURE LAYOUT



COFFERDAM DETAILS - SECTION B-B

(Piers No. 1 & 2)
Horizontal Dimensions @ Rt. C's

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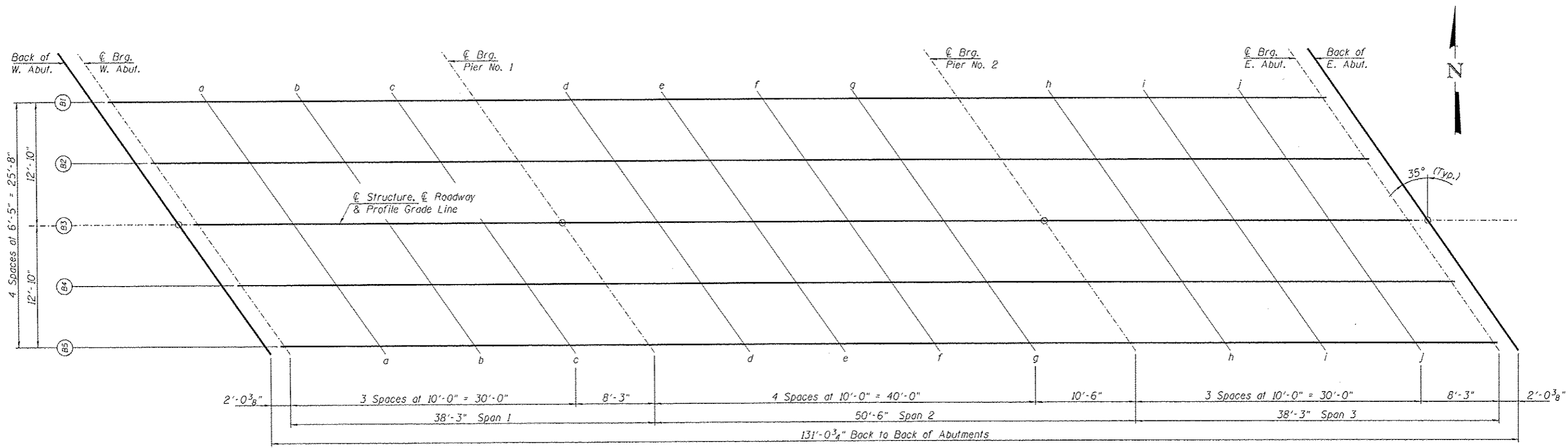
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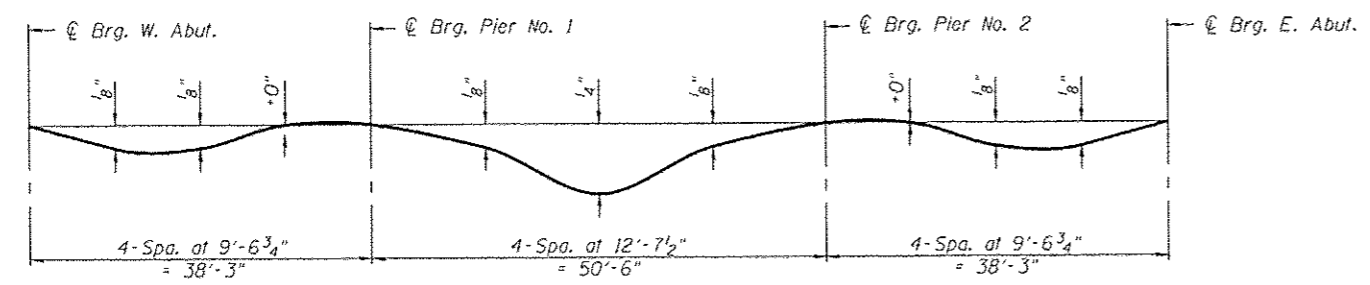
**SUBSTRUCTURE LAYOUT & COFFERDAM DETAILS
STRUCTURE NO. 072-3150**

SHEET NO. 3 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	26
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	



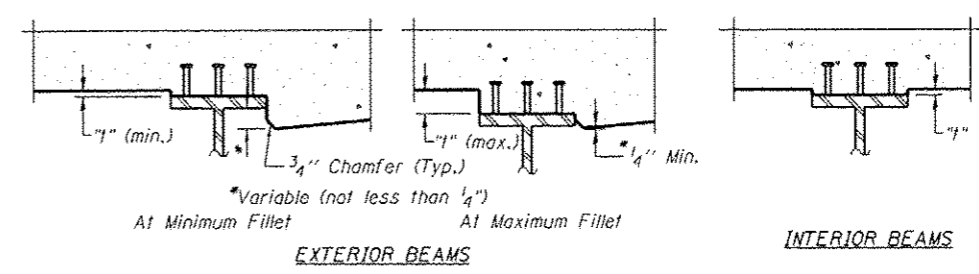
DIAGRAMMATIC PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 5 of 26.



To determine "I": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 5 of 26, minus 8" slab thickness, equals the fillet heights "I" above top flange of beams.

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TOP OF DECK ELEVATIONS (Sheet 1 of 2)
STRUCTURE NO. 072-3150

SHEET NO. 4 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	27
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	4+50.39	-12.83	597.10	597.10
☉ Brg. W. Abut.	4+52.42	-12.83	596.96	596.96
a	4+62.42	-12.83	596.27	596.28
b	4+72.42	-12.83	595.61	595.62
c	4+82.42	-12.83	594.97	594.97
☉ Brg. Pier No. 1	4+90.67	-12.83	594.45	594.45
d	5+00.67	-12.83	593.85	593.86
e	5+10.67	-12.83	593.27	593.29
f	5+20.67	-12.83	592.71	592.73
g	5+30.67	-12.83	592.17	592.18
☉ Brg. Pier No. 2	5+41.17	-12.83	591.63	591.63
h	5+51.17	-12.83	591.13	591.13
i	5+61.17	-12.83	590.65	590.67
j	5+71.17	-12.83	590.20	590.21
☉ Brg. E. Abut.	5+79.42	-12.83	589.84	589.84
Bk. E. Abut.	5+81.45	-12.83	589.76	589.76

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	4+54.88	-6.42	596.91	596.91
☉ Brg. W. Abut.	4+56.91	-6.42	596.77	596.77
a	4+66.91	-6.42	596.10	596.11
b	4+76.91	-6.42	595.45	595.46
c	4+86.91	-6.42	594.82	594.82
☉ Brg. Pier No. 1	4+95.16	-6.42	594.31	594.31
d	5+05.16	-6.42	593.72	593.73
e	5+15.16	-6.42	593.14	593.17
f	5+25.16	-6.42	592.59	592.61
g	5+35.16	-6.42	592.06	592.08
☉ Brg. Pier No. 2	5+45.66	-6.42	591.53	591.53
h	5+55.66	-6.42	591.04	591.05
i	5+65.66	-6.42	590.58	590.59
j	5+75.66	-6.42	590.13	590.14
☉ Brg. E. Abut.	5+83.91	-6.42	589.78	589.78
Bk. E. Abut.	5+85.94	-6.42	589.70	589.70

BEAM 3. ☉ ROADWAY & PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	4+59.37	0.00	596.73	596.73
☉ Brg. W. Abut.	4+61.40	0.00	596.60	596.60
a	4+71.40	0.00	595.93	595.94
b	4+81.40	0.00	595.29	595.30
c	4+91.40	0.00	594.67	594.67
☉ Brg. Pier No. 1	4+99.65	0.00	594.17	594.17
d	5+09.65	0.00	593.58	593.60
e	5+19.65	0.00	593.02	593.04
f	5+29.65	0.00	592.48	592.50
g	5+39.65	0.00	591.96	591.97
☉ Brg. Pier No. 2	5+50.15	0.00	591.44	591.44
h	5+60.15	0.00	590.96	590.96
i	5+70.15	0.00	590.50	590.51
j	5+80.15	0.00	590.07	590.08
☉ Brg. E. Abut.	5+88.40	0.00	589.72	589.72
Bk. E. Abut.	5+90.43	0.00	589.64	589.64

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	4+63.87	6.42	596.30	596.30
☉ Brg. W. Abut.	4+65.90	6.42	596.17	596.17
a	4+75.90	6.42	595.51	595.52
b	4+85.90	6.42	594.88	594.89
c	4+95.90	6.42	594.27	594.27
☉ Brg. Pier No. 1	5+04.15	6.42	593.78	593.78
d	5+14.15	6.42	593.20	593.21
e	5+24.15	6.42	592.65	592.67
f	5+34.15	6.42	592.12	592.14
g	5+44.15	6.42	591.60	591.62
☉ Brg. Pier No. 2	5+54.65	6.42	591.09	591.09
h	5+64.65	6.42	590.62	590.63
i	5+74.65	6.42	590.18	590.19
j	5+84.65	6.42	589.75	589.76
☉ Brg. E. Abut.	5+92.90	6.42	589.41	589.41
Bk. E. Abut.	5+94.93	6.42	589.33	589.33

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	4+68.35	12.83	595.88	595.88
☉ Brg. W. Abut.	4+70.38	12.83	595.74	595.74
a	4+80.38	12.83	595.10	595.11
b	4+90.38	12.83	594.47	594.48
c	5+00.38	12.83	593.87	593.88
☉ Brg. Pier No. 1	5+08.63	12.83	593.39	593.39
d	5+18.63	12.83	592.82	592.83
e	5+28.63	12.83	592.28	592.30
f	5+38.63	12.83	591.76	591.78
g	5+48.63	12.83	591.25	591.27
☉ Brg. Pier No. 2	5+59.13	12.83	590.75	590.75
h	5+69.13	12.83	590.29	590.30
i	5+79.13	12.83	589.85	589.86
j	5+89.13	12.83	589.44	589.45
☉ Brg. E. Abut.	5+97.38	12.83	589.11	589.11
Bk. E. Abut.	5+99.41	12.83	589.03	589.03

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TOP OF DECK ELEVATIONS (Sheet 2 of 2)
 STRUCTURE NO. 072-3150

SHEET NO. 5 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	28
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	4+20.79	-14.00	599.23
'A'	4+30.79	-14.00	598.48
'B'	4+40.79	-14.00	597.75
Abut. End of West Appr.	4+50.79	-14.00	597.05

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	4+22.89	-11.00	599.13
'A'	4+32.89	-11.00	598.39
'B'	4+42.89	-11.00	597.66
Abut. End of West Appr.	4+52.89	-11.00	596.96

☉ ROADWAY & P.G.L.

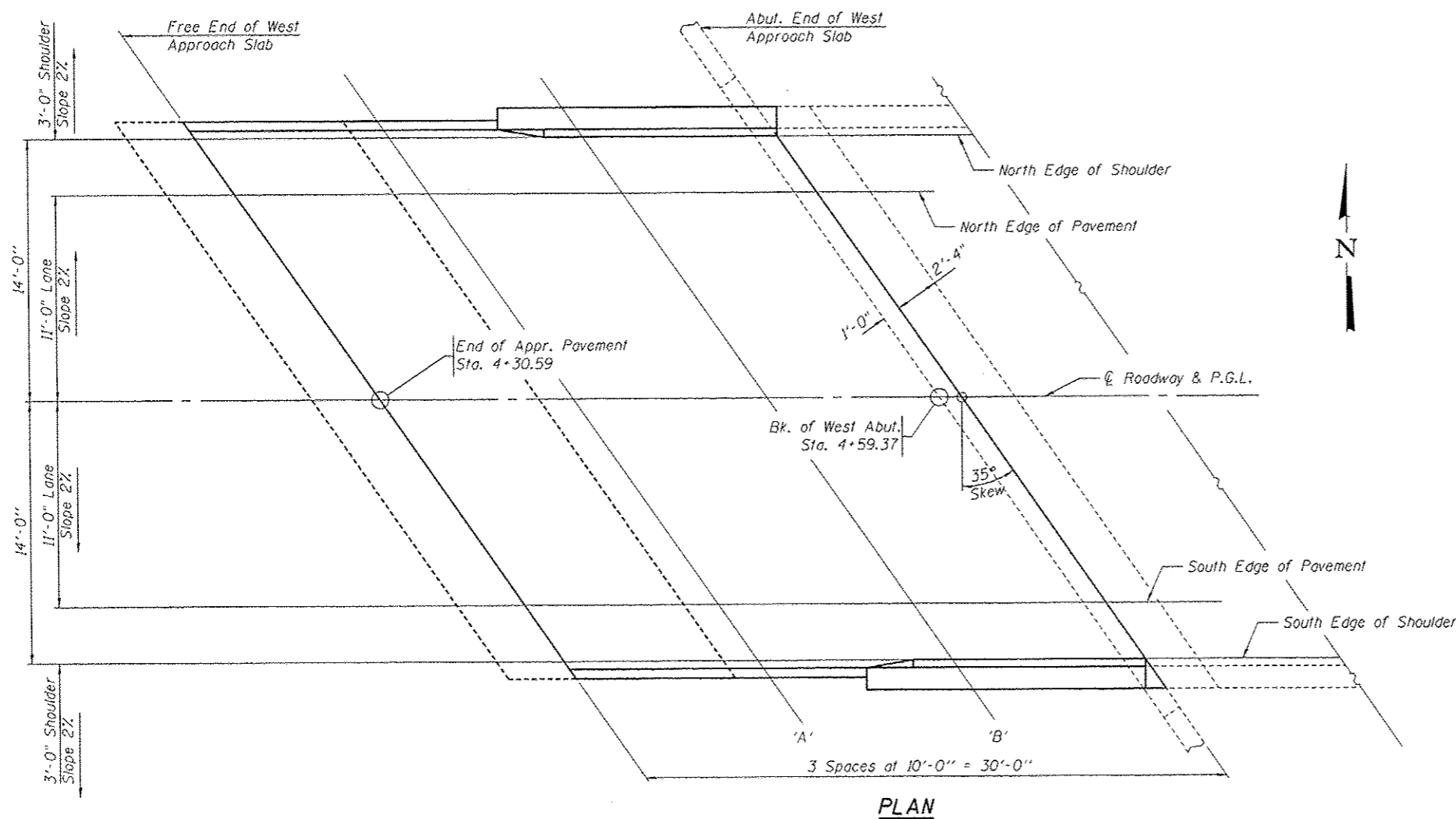
Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	4+30.59	0.00	598.78
'A'	4+40.59	0.00	598.05
'B'	4+50.59	0.00	597.34
Abut. End of West Appr.	4+60.59	0.00	596.65

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	4+38.29	11.00	597.99
'A'	4+48.29	11.00	597.28
'B'	4+58.29	11.00	596.59
Abut. End of West Appr.	4+68.29	11.00	595.92

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	4+40.39	14.00	597.78
'A'	4+50.39	14.00	597.07
'B'	4+60.39	14.00	596.38
Abut. End of West Appr.	4+70.39	14.00	595.72



PLAN

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
 STRUCTURE NO. 072-3150**

SHEET NO. 6 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	29
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

NORTH EDGE OF SHOULDER RADIUS

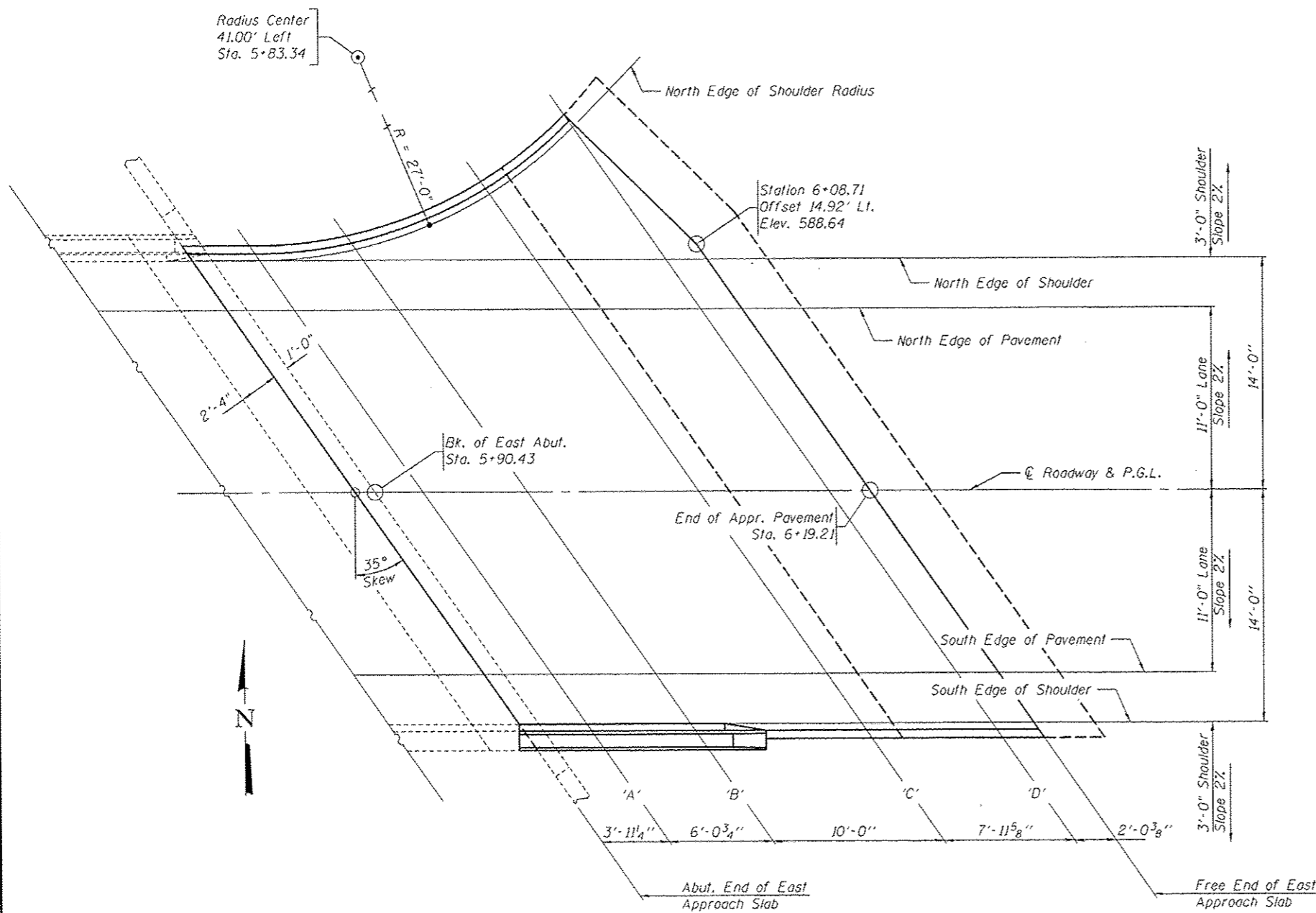
Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	5+79.41	-14.00	589.82
'A'	5+83.34	-14.00	589.65
'B'	5+88.99	-14.60	589.41
'C'	5+96.86	-17.63	589.03
'D'	6+02.07	-21.55	588.75
Free End of East Appr.	6+02.18	-21.66	588.75

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	5+79.41	-14.00	589.82
'A'	5+83.34	-14.00	589.65
'B'	5+89.41	-14.00	589.40
'C'	5+99.41	-14.00	589.01
'D'	6+07.38	-14.00	588.71
Free End of East Appr.	6+09.41	-14.00	588.63

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	5+81.51	-11.00	589.79
'A'	5+85.45	-11.00	589.62
'B'	5+91.51	-11.00	589.38
'C'	6+01.51	-11.00	588.99
'D'	6+09.48	-11.00	588.69
Free End of East Appr.	6+11.51	-11.00	588.62



PLAN

☐ ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	5+89.21	0.00	589.69
'A'	5+93.15	0.00	589.53
'B'	5+99.21	0.00	589.30
'C'	6+09.21	0.00	588.92
'D'	6+17.18	0.00	588.64
Free End of East Appr.	6+19.21	0.00	588.57

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	5+96.91	11.00	589.16
'A'	6+00.85	11.00	589.01
'B'	6+06.91	11.00	588.79
'C'	6+16.91	11.00	588.43
'D'	6+24.88	11.00	588.16
Free End of East Appr.	6+26.91	11.00	588.09

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	5+99.01	14.00	589.02
'A'	6+02.95	14.00	588.87
'B'	6+09.01	14.00	588.65
'C'	6+19.01	14.00	588.29
'D'	6+26.98	14.00	588.03
Free End of East Appr.	6+29.01	14.00	587.96

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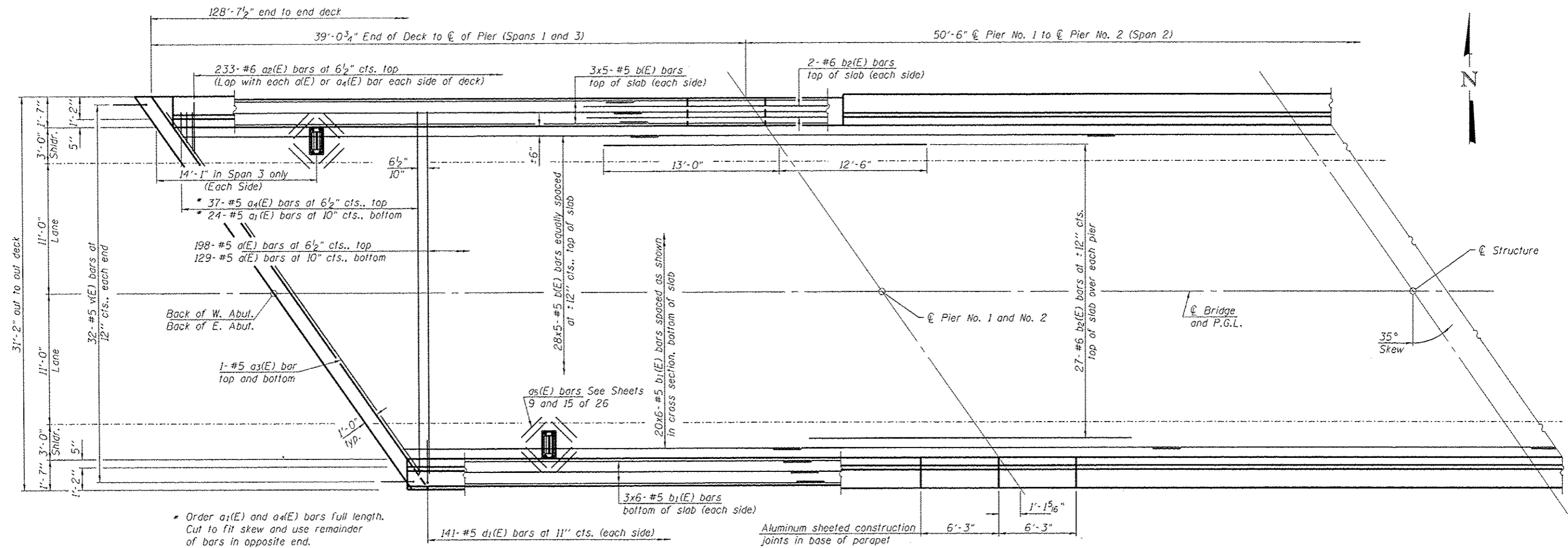
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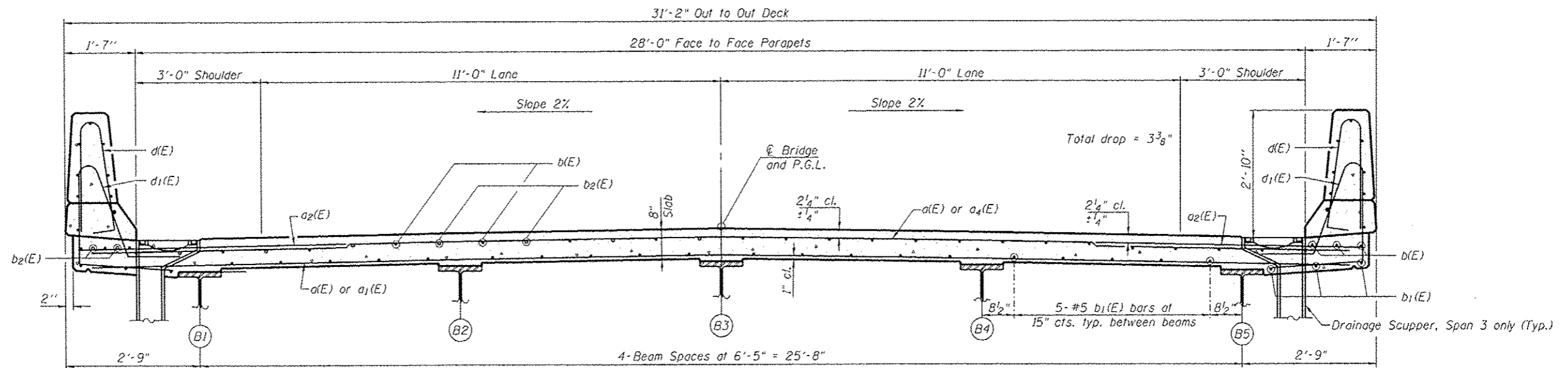
**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 072-3150**

SHEET NO. 7 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	30
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	



PARTIAL PLAN



NEAR PIER

CROSS SECTION
 (Looking East)

NEAR MIDSPAN

Notes:
 See Sheet 9 of 26 for superstructure details
 and Bill of Material.
 Bars indicated thus 20 x 6-#5 etc. indicates
 20 lines of bars with 6 lengths per line.
 See Sheet 9 of 26 for parapet reinforcement.

MINIMUM BAR LAP
 #5 bar = 2'-7"

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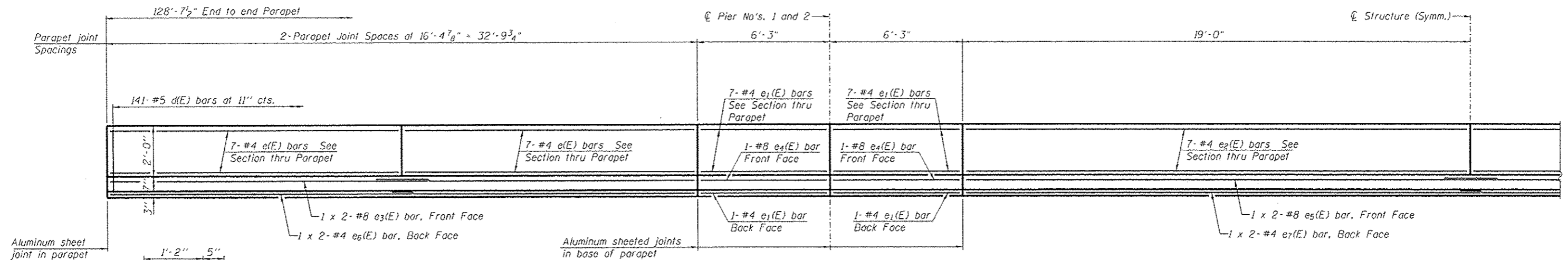
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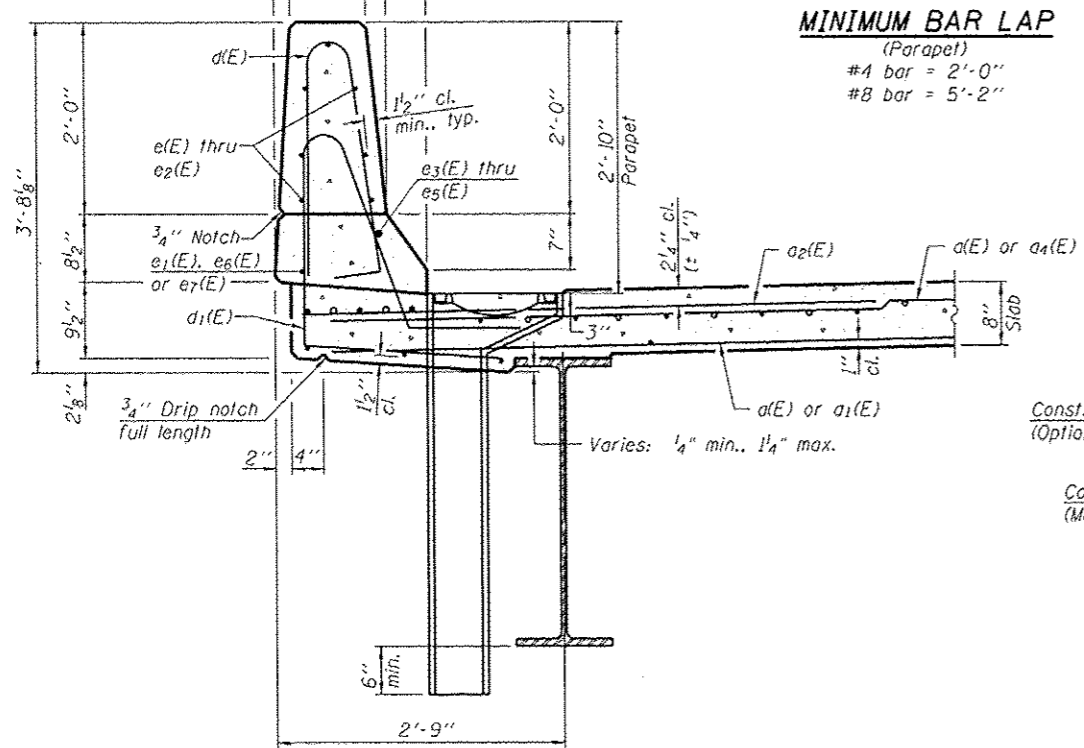
SUPERSTRUCTURE PLAN AND DECK CROSS SECTION
 STRUCTURE NO. 072-3150

SHEET NO. 8 OF 26 SHEETS

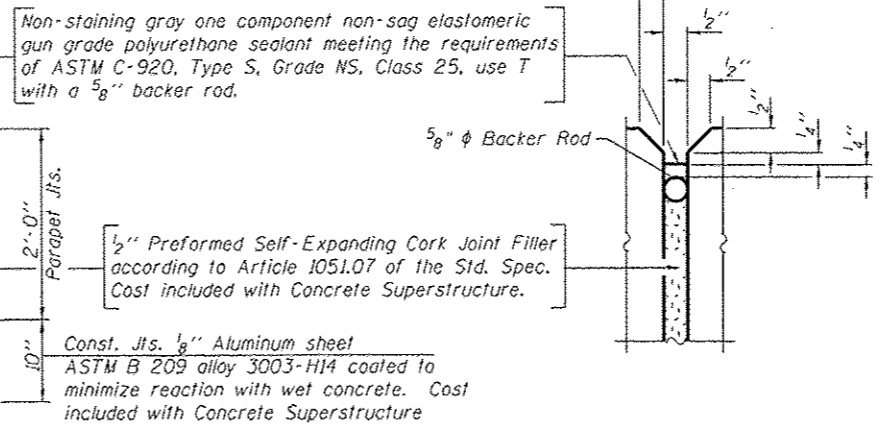
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	31
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	



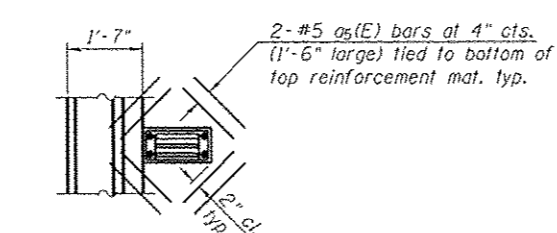
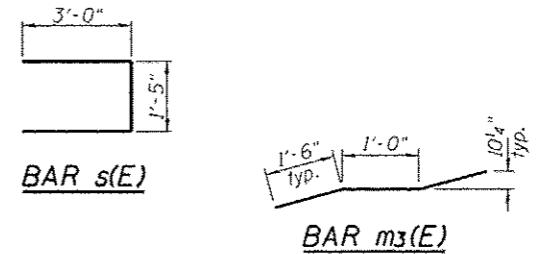
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

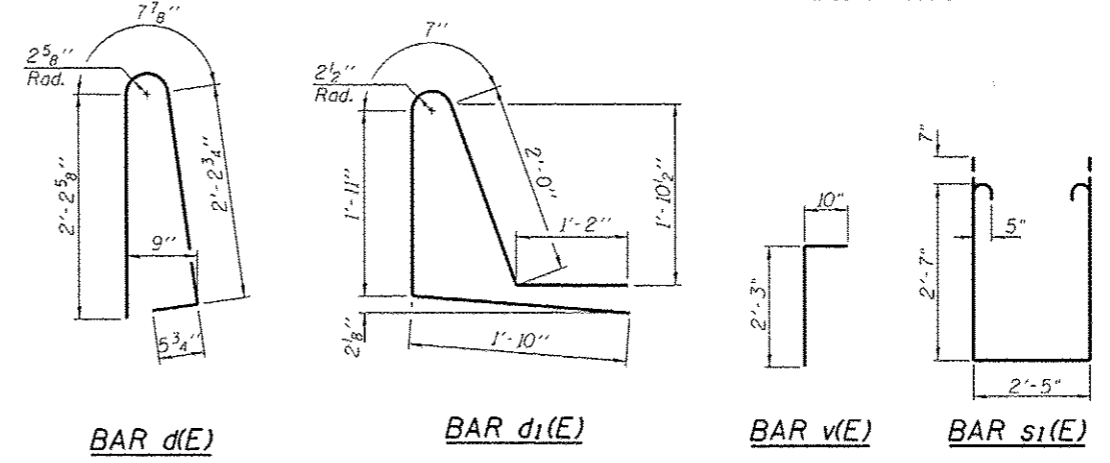


PARAPET JOINT DETAILS



PLAN - REINFORCEMENT TREATMENT AT SCUPPERS

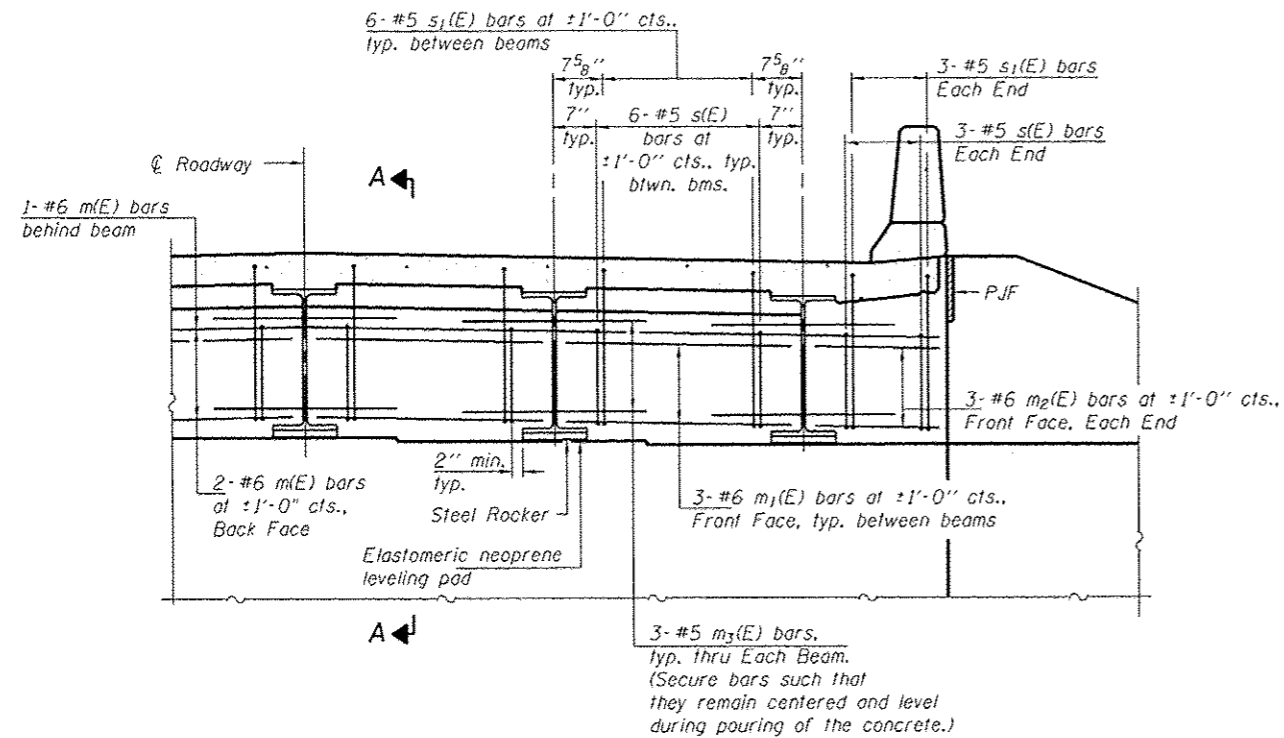
Note:
 Cut longitudinal reinforcement to clear drainage scuppers.



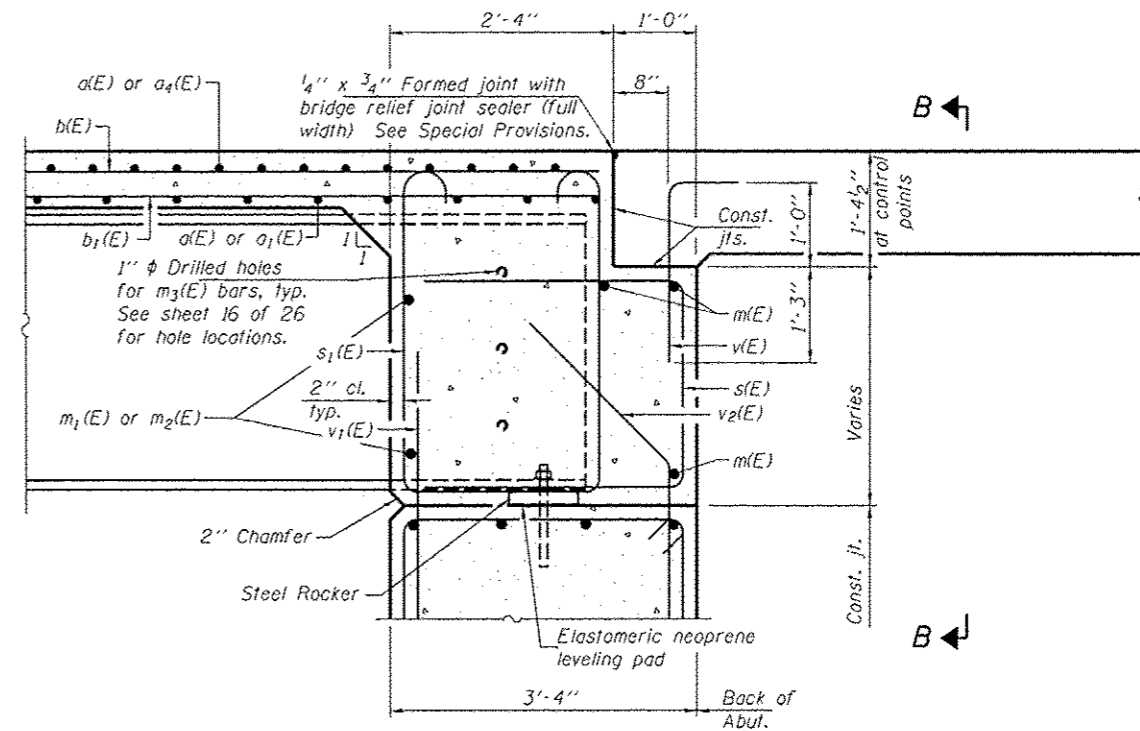
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	327	#5	30'-0"	—
a1(E)	24	#5	31'-0"	—
a2(E)	466	#6	6'-6"	—
a3(E)	4	#5	36'-9"	—
a4(E)	37	#5	31'-4"	—
a5(E)	16	#5	1'-6"	—
b(E)	170	#5	27'-9"	—
b1(E)	156	#5	23'-7"	—
b2(E)	62	#6	25'-6"	—
d(E)	282	#5	5'-7"	—
d1(E)	282	#5	7'-6"	—
e(E)	56	#4	16'-0"	—
e1(E)	64	#4	5'-11"	—
e2(E)	28	#4	18'-8"	—
e3(E)	8	#8	18'-10"	—
e4(E)	8	#8	5'-11"	—
e5(E)	4	#8	21'-5"	—
e6(E)	8	#4	17'-3"	—
e7(E)	4	#4	19'-10"	—
m(E)	6	#6	37'-8"	—
m1(E)	24	#6	7'-6"	—
m2(E)	12	#6	3'-0"	—
m3(E)	30	#5	4'-0"	—
s(E)	60	#5	7'-5"	□
s1(E)	60	#5	8'-9"	□
v(E)	64	#5	3'-1"	Γ
Reinforcement Bars, Epoxy Coated		Pound	36040	
Concrete Superstructure		Cu. Yds.	153.7	

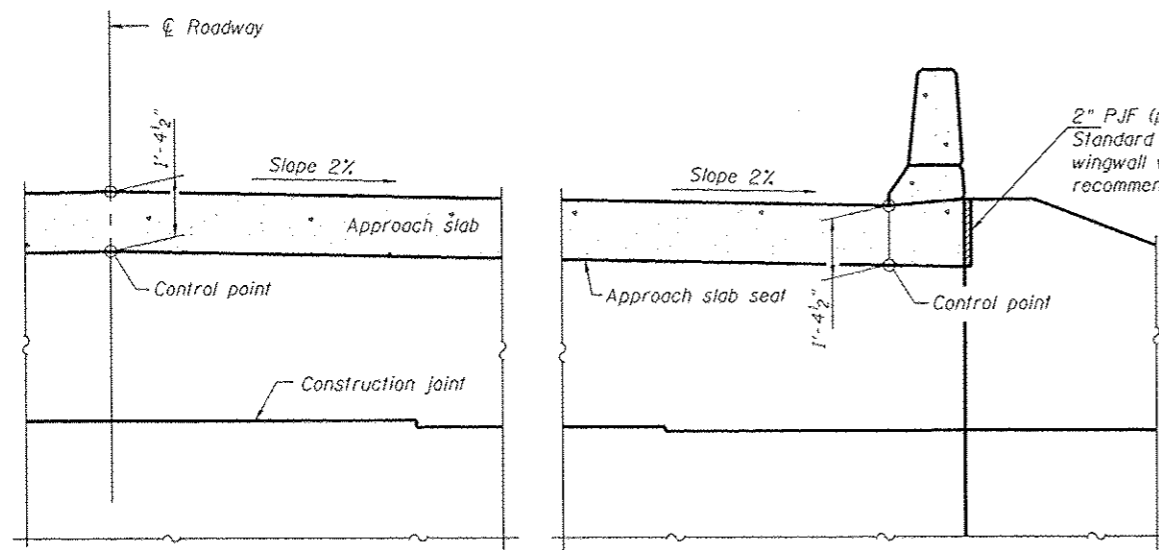
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



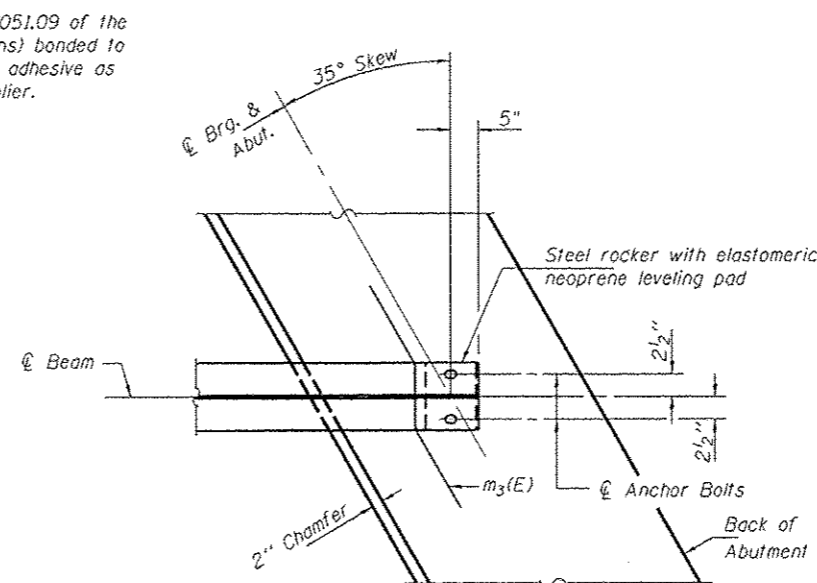
DIAPHRAGM ELEVATION AT ABUTMENT



SECTION A-A
(at Rt. L's)



SECTION B-B



PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 9 of 26.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 26.
 For details of bars s(E), s1(E) and v(E) see sheet 9 of 26.
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 18 of 26.

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PLOT DATE : 10\15\2013	DRAWN - DAP	REVISIONS
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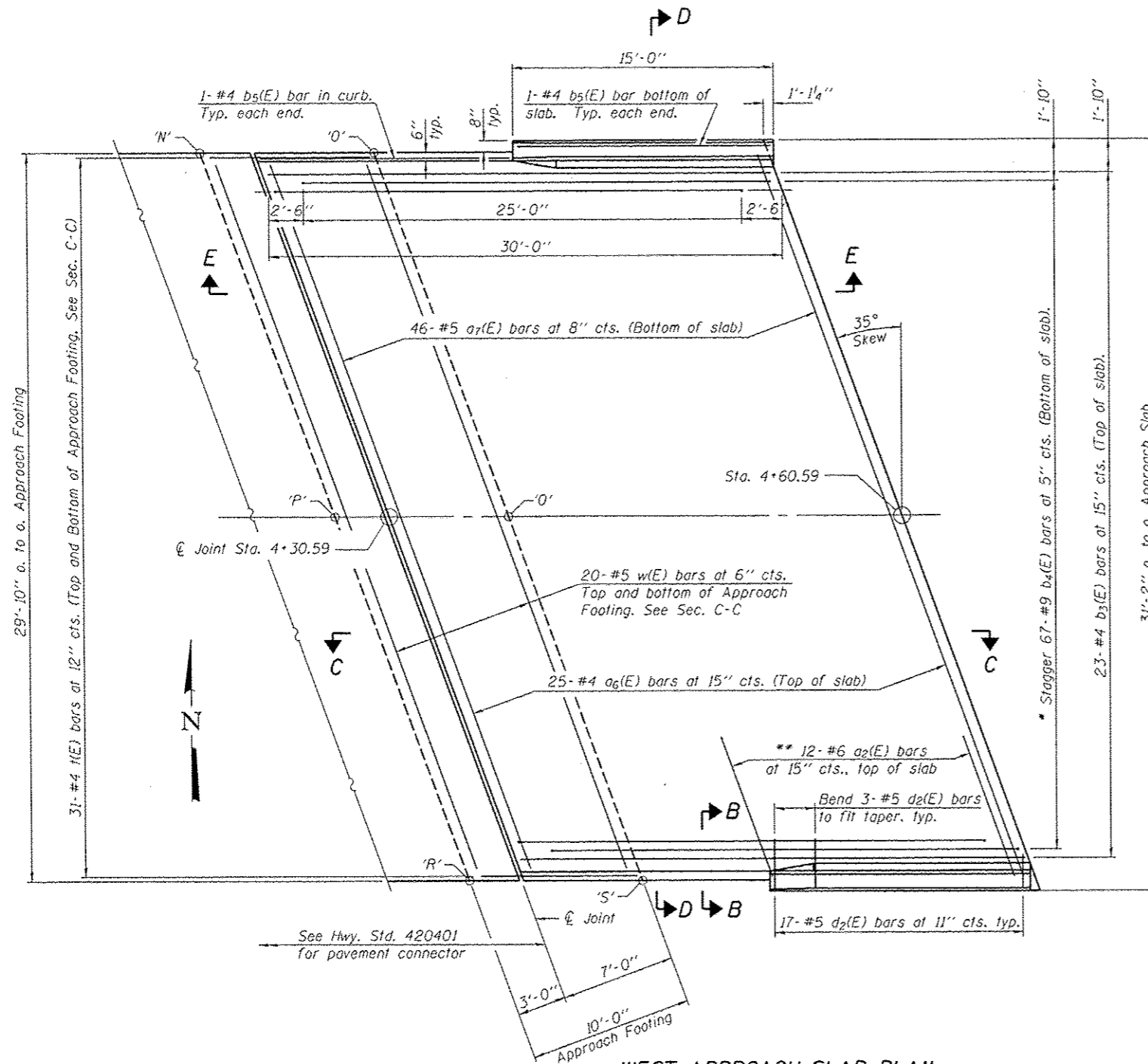
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INTEGRAL ABUTMENT AND DIAPHRAGM DETAILS
STRUCTURE NO. 072-3150

SHEET NO. 10 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	33
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

Notes:
 See sheet 14 of 26 for Sections C-C & D-D.
 $a_6(E)$ and $a_7(E)$ bar spacings measured along ϕ Rdwy.
 The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1'2" for installation purposes.



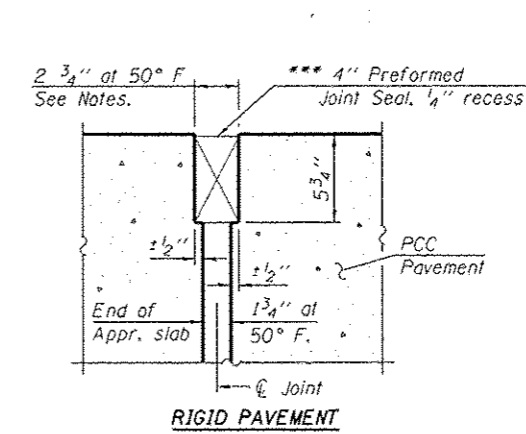
WEST APPROACH SLAB PLAN

* Tilt #9 $b_4(E)$ bars as required to maintain clearance.
 ** Space between $a_6(E)$ bars, typ. each parapet.

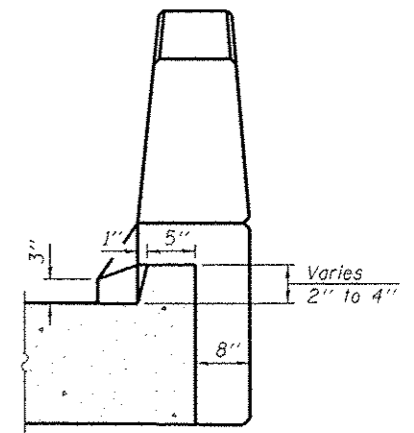
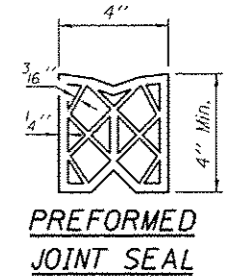
Top of West Approach Footing Elevations

Point	'N'	'O'	'P'	'Q'	'R'	'S'
Elevation	598.17	597.24	597.67	596.78	596.61	595.74

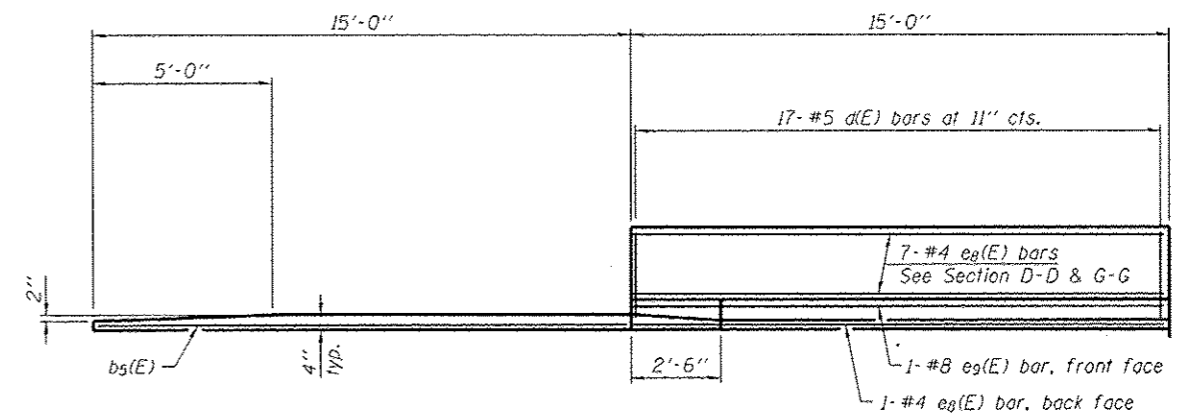
*** Cost included with Concrete Superstructure.



DETAIL A



VIEW B-B



VIEW E-E

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DRAWN	: DAP	REVISION			
CHECKED	: JGT	REVISION			
PLOT SCALE					
PLOT DATE	: 10/15/2013				

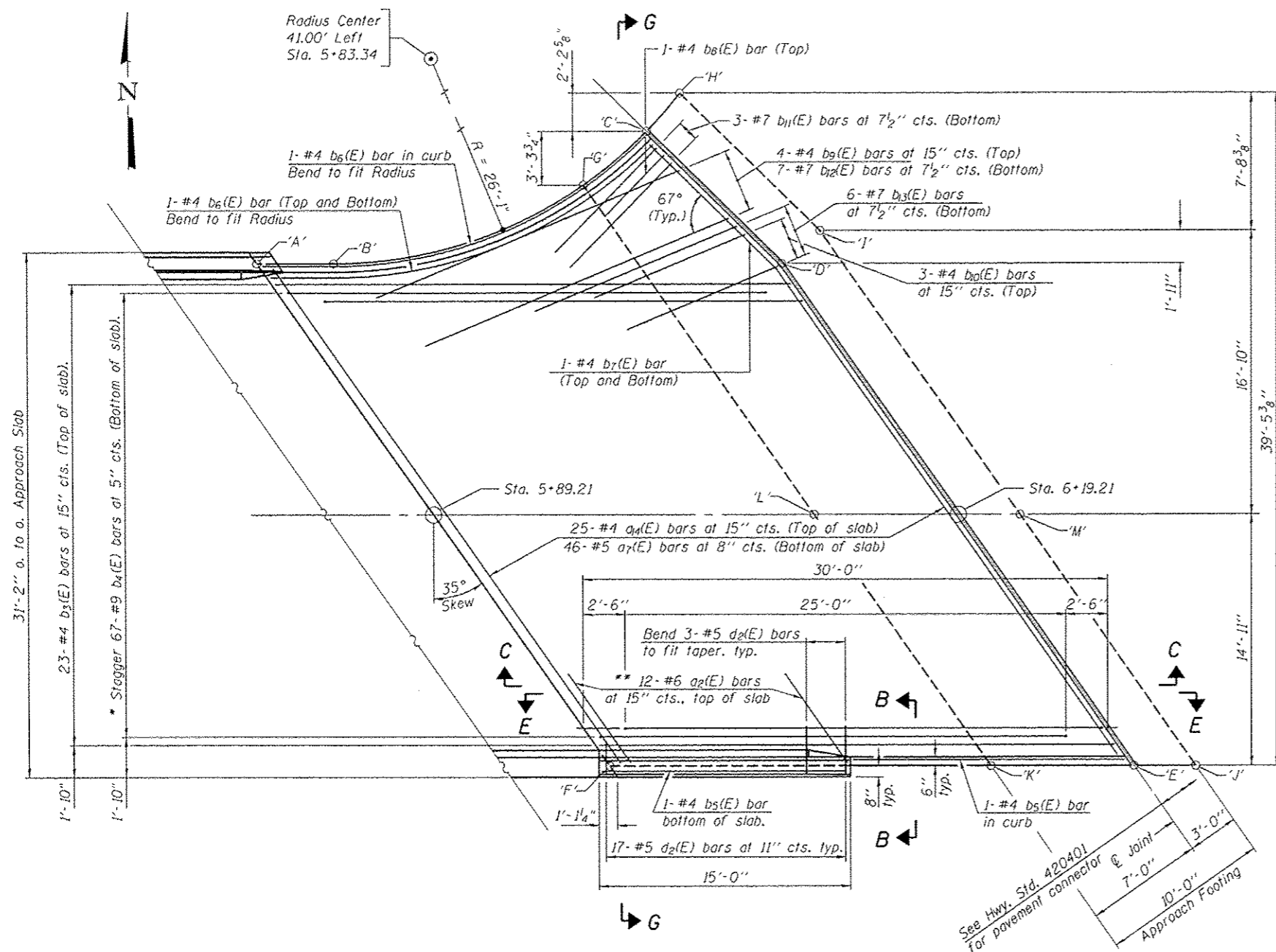
STATE OF ILLINOIS
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CAST-IN-PLACE BRIDGE APPROACH SLAB DETAILS (Sheet 1 of 4)
 STRUCTURE NO. 072-3150

SHEET NO. 11 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	34
CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT				

Notes:
 See sheet 11 of 26 for Views B-B & E-E.
 See sheet 14 of 26 for Sections C-C and G-G.
 a₆(E) thru a₄(E) bar spacings measured along \bar{C} Rwy.



EAST APPROACH SLAB PLAN

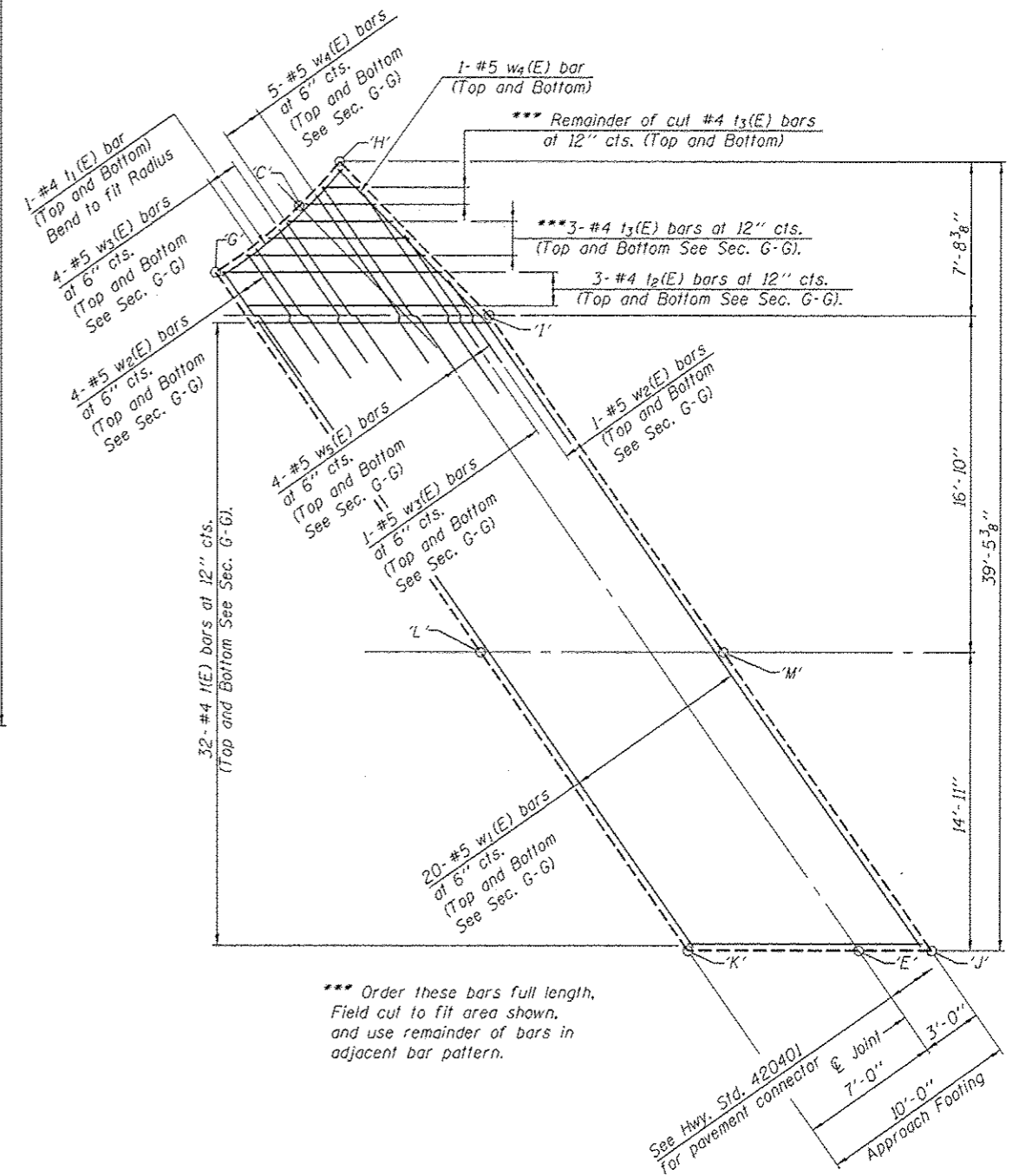
- * Tilt #9 b₄(E) bars as required to maintain clearance.
- ** Space between a₆(E) bars, typ. each parapet.

SLAB and FOOTING CONTROL POINTS

Point	Station	Offset
Layout Points Approach Slab		
'A'	5+78.76	14.92' Lt.
'B'	5+83.34	14.92' Lt.
'C'	6+01.54	22.31' Lt.
'D'	6+08.71	14.92' Lt.
'E'	6+29.67	14.92' Rt.
'F'	5+99.65	14.92' Rt.
Layout Points Approach Footing		
'G'	5+97.34	19.00' Lt.
'H'	6+03.57	24.53' Lt.
'I'	6+11.02	16.84' Lt.
'J'	6+33.33	14.92' Rt.
'K'	6+21.12	14.92' Rt.
'L'	6+10.66	0.00'
'M'	6+22.87	0.00'

Top of East Approach Footing Elevations

Point	'G'	'H'	'I'	'J'	'K'	'L'	'M'
Elevation	587.61	587.26	587.14	586.43	586.83	587.49	587.07



*** Order these bars full length, field cut to fit area shown, and use remainder of bars in adjacent bar pattern.

EAST APPROACH FOOTING REINFORCEMENT PLAN

MINIMUM BAR LAP
 #5 bar = 2'-7"

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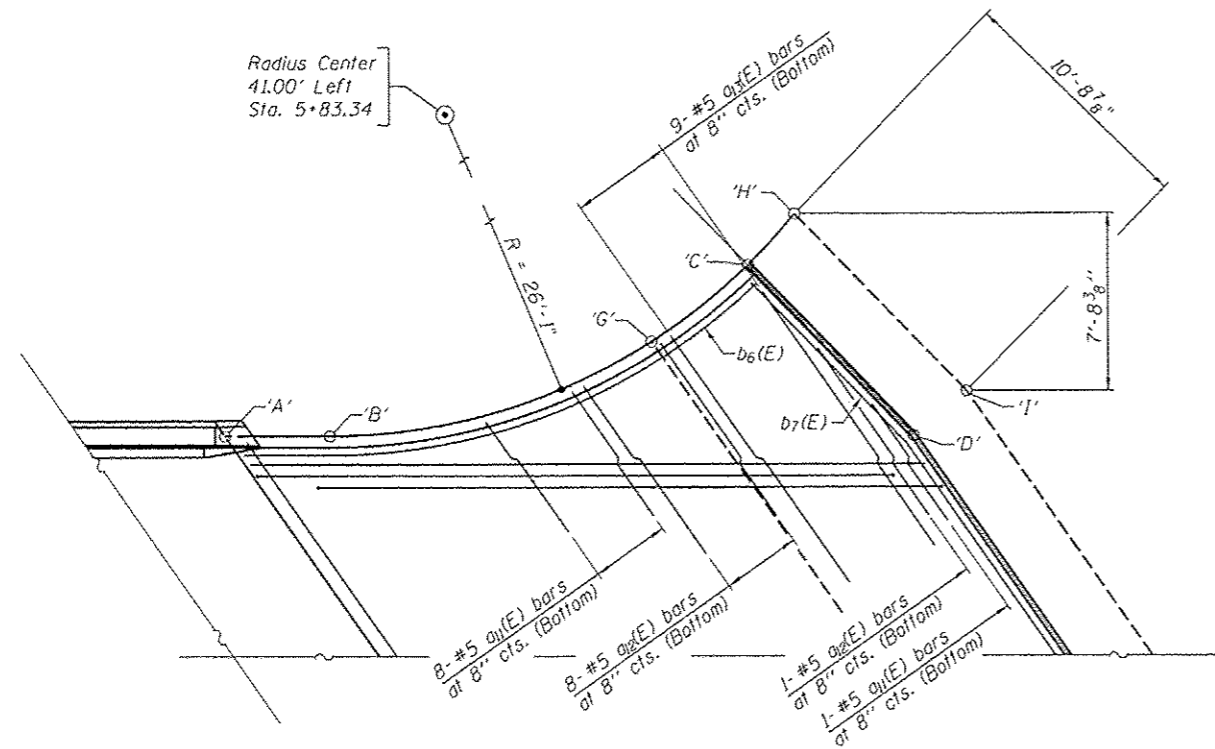
CAST-IN-PLACE BRIDGE APPROACH SLAB DETAILS (Sheet 2 of 4)
STRUCTURE NO. 072-3150

SHEET NO. 12 OF 26 SHEETS

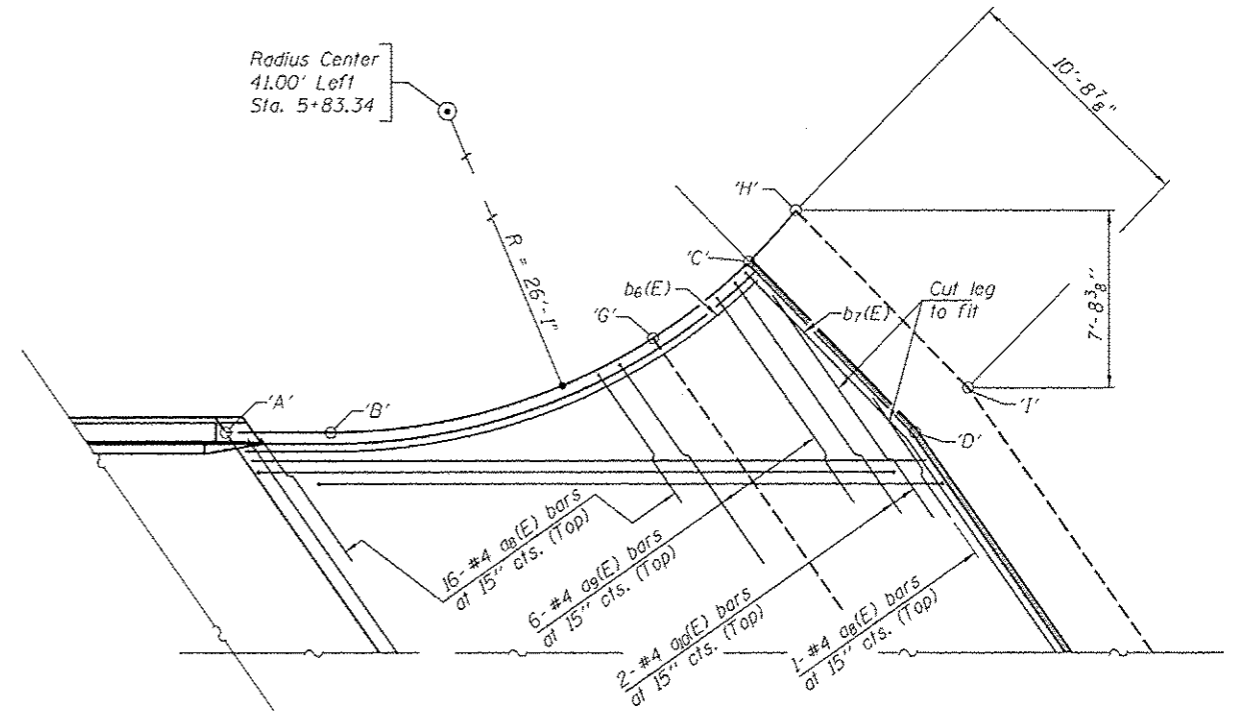
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	35

CONTRACT NO. 89642
 ILLINOIS FED. AID PROJECT

Notes:
 $a_6(E)$ thru $a_4(E)$ bar spacings measured along \hat{C} Rdwy.
 $a_8(E)$ thru $a_6(E)$ bars should be lapped to $a_4(E)$ bars.
 $a_{11}(E)$ thru $a_2(E)$ bars should be lapped to $a_7(E)$ bars.



EAST APPROACH SLAB PLAN
 (Showing Bottom Reinforcement in Slab)



EAST APPROACH SLAB PLAN
 (Showing Top Reinforcement in Slab)

MINIMUM BAR LAP
 #4 bar = 2'-1"
 #5 bar = 2'-7"

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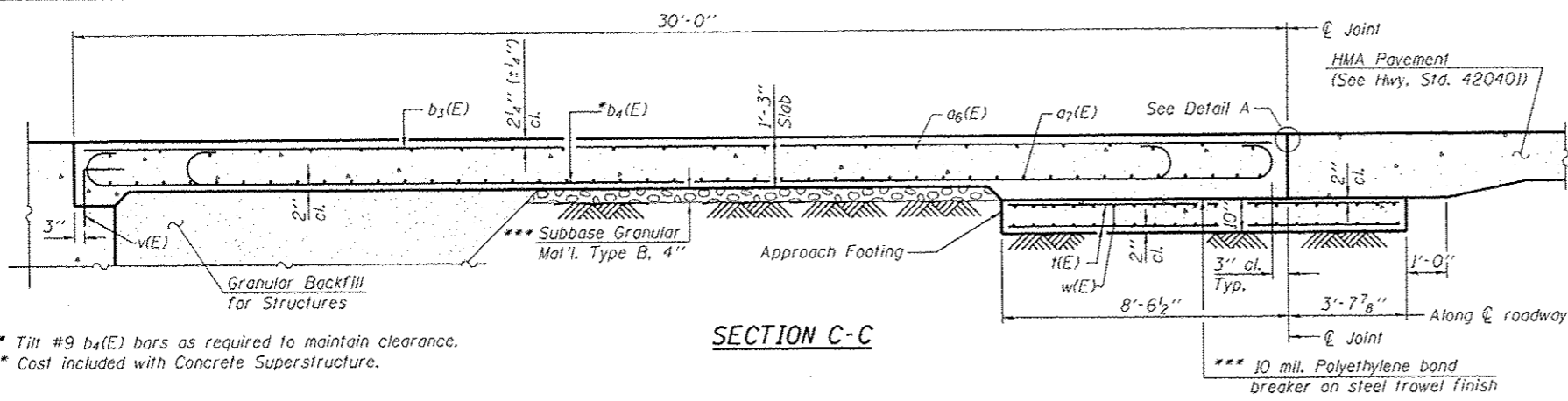
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CAST-IN-PLACE BRIDGE APPROACH SLAB DETAILS (Sheet 3 of 4)
 STRUCTURE NO. 072-3150

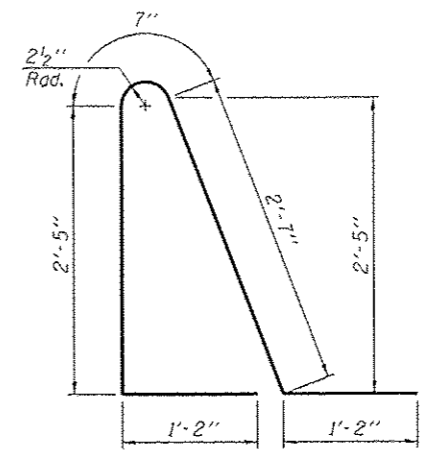
SHEET NO. 13 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

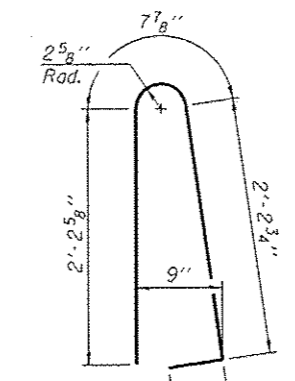


* Tilt #9 b4(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

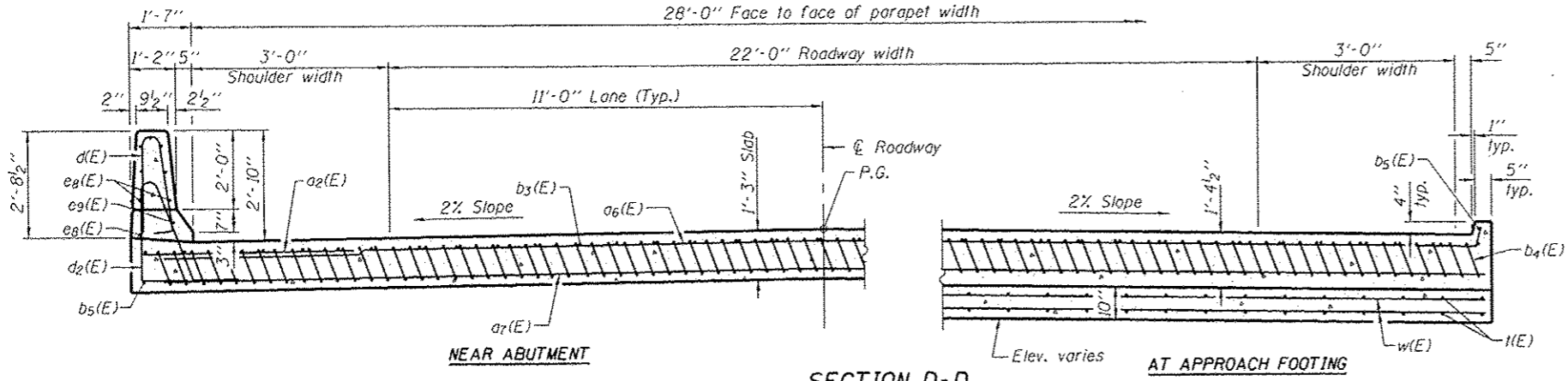
SECTION C-C



BAR d2(E)



BAR d(E)



SECTION D-D

(See Plan on sheet 11 of 26 for dimensions not shown)

Bar	'W'	'X'	'Y'	'Z'
b4(E)	11'-4"	27'-3"	29'-9"	1'-3"
b11(E)	7"	6'-4"	8'-0"	10"
b12(E)	7"	18'-1"	19'-9"	10"
b13(E)	7"	10'-8"	12'-4"	10"

BARS b4(E), b11(E), b12(E), b13(E)

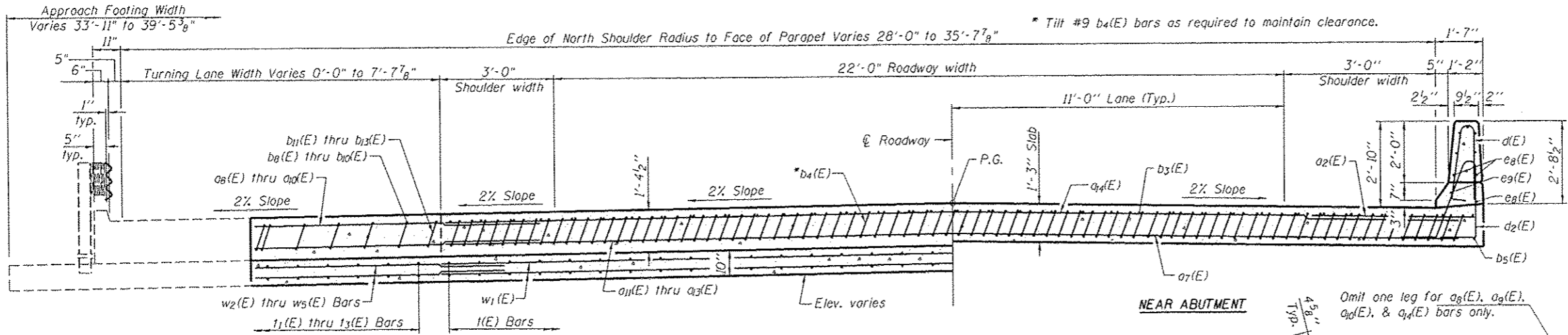
Notes:
 See sheet 11 of 26 for Detail A.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 9 of 26.
 The approach footing maximum applied service bearing pressure (Omax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 26.
 For additional parapet details, see sheet 9 of 26.

**WEST APPROACH SLAB
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	24	#6	6'-6"	—
a6(E)	25	#4	36'-6"	—
a7(E)	46	#5	36'-1"	—
b3(E)	23	#4	29'-8"	—
b4(E)	67	#9	29'-9"	—
b5(E)	4	#4	14'-8"	—
d(E)	34	#5	5'-7"	—
d2(E)	34	#5	7'-11"	—
e8(E)	16	#4	14'-8"	—
e9(E)	2	#8	14'-8"	—
v(E)	62	#4	11'-10"	—
w(E)	40	#5	36'-1"	—
Concrete Superstructure				Cu. Yd. 47.6
Concrete Structures				Cu. Yd. 11.2
Reinforcement Bars, Epoxy Coated				Pound 12560

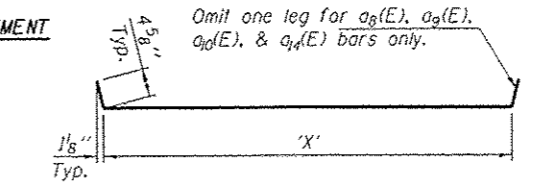
**EAST APPROACH SLAB
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	12	#6	6'-6"	—
a7(E)	46	#5	36'-1"	—
a8(E)	17	#4	5'-11"	—
a9(E)	6	#4	10'-0"	—
a10(E)	2	#4	10'-11"	—
a11(E)	9	#5	5'-4"	—
a12(E)	9	#5	7'-10"	—
a13(E)	9	#5	11'-7"	—
a14(E)	25	#4	36'-2"	—
b3(E)	23	#4	29'-8"	—
b4(E)	67	#9	29'-9"	—
b5(E)	2	#4	14'-8"	—
b6(E)	3	#4	24'-2"	—
b7(E)	2	#4	9'-8"	—
b8(E)	1	#4	4'-6"	—
b9(E)	4	#4	19'-0"	—
b10(E)	3	#4	8'-11"	—
b11(E)	3	#7	8'-0"	—
b12(E)	7	#7	19'-9"	—
b13(E)	6	#7	12'-4"	—
d(E)	17	#5	5'-7"	—
d2(E)	17	#5	7'-11"	—
e8(E)	8	#4	14'-8"	—
e9(E)	1	#8	14'-8"	—
v(E)	64	#4	11'-10"	—
11(E)	2	#4	8'-0"	—
12(E)	6	#4	11'-0"	—
13(E)	6	#4	9'-0"	—
w1(E)	40	#5	38'-5"	—
w2(E)	10	#5	6'-9"	—
w3(E)	10	#5	8'-4"	—
w4(E)	12	#5	10'-5"	—
w5(E)	8	#5	11'-10"	—
Concrete Superstructure				Cu. Yd. 49.6
Concrete Structures				Cu. Yd. 13.7
Reinforcement Bars, Epoxy Coated				Pound 13620



SECTION G-G

(See Plan on sheets 12 & 13 of 26 for dimensions not shown)



BARS a6(E), a8(E), a9(E), a10(E), & a14(E)

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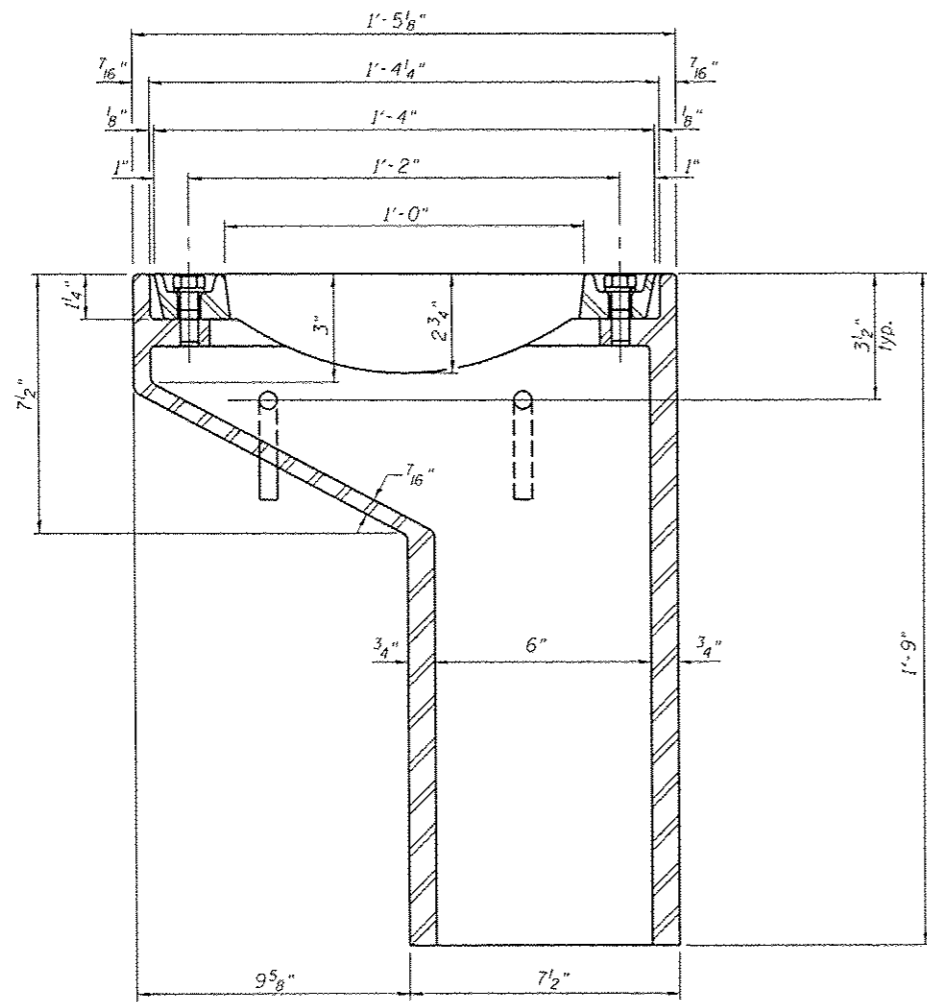
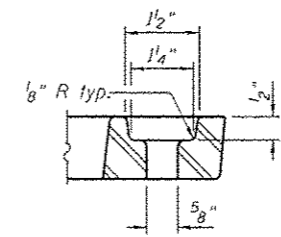
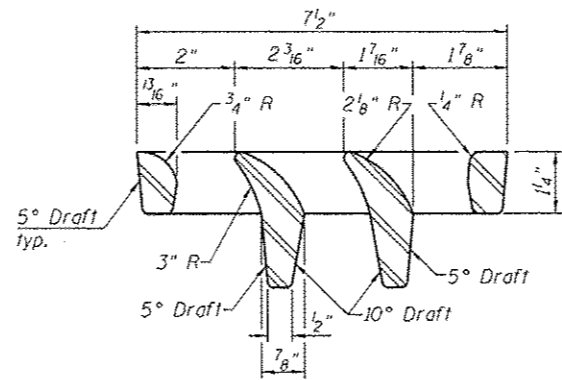
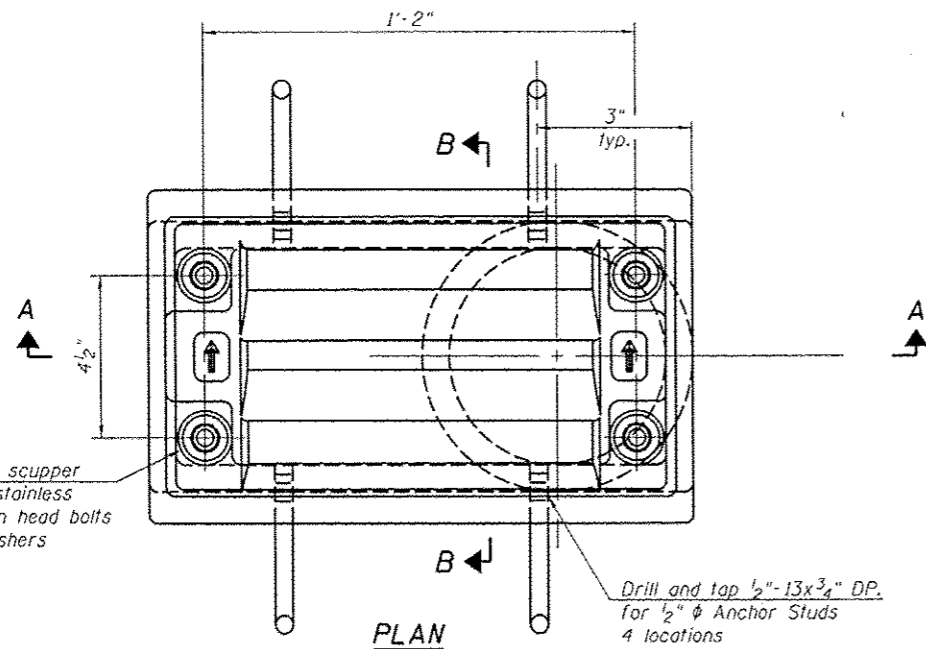
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 DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE BRIDGE APPROACH SLAB DETAILS (Sheet 4 of 4)
 STRUCTURE NO. 072-3150

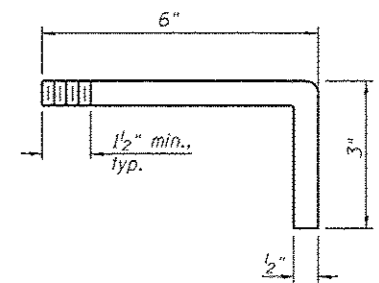
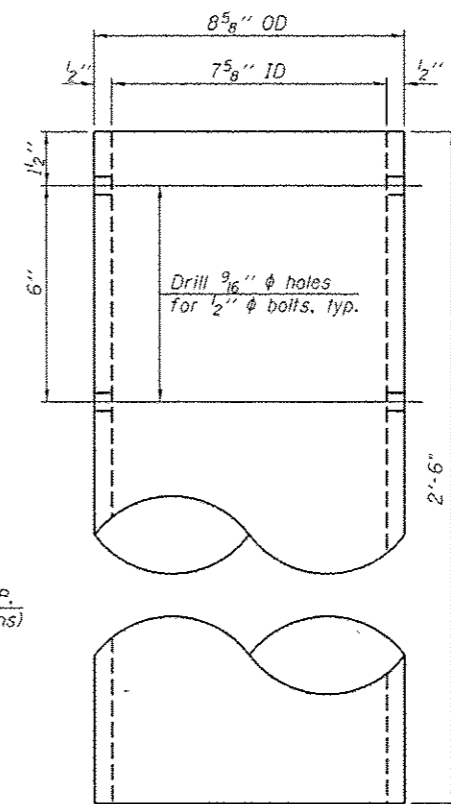
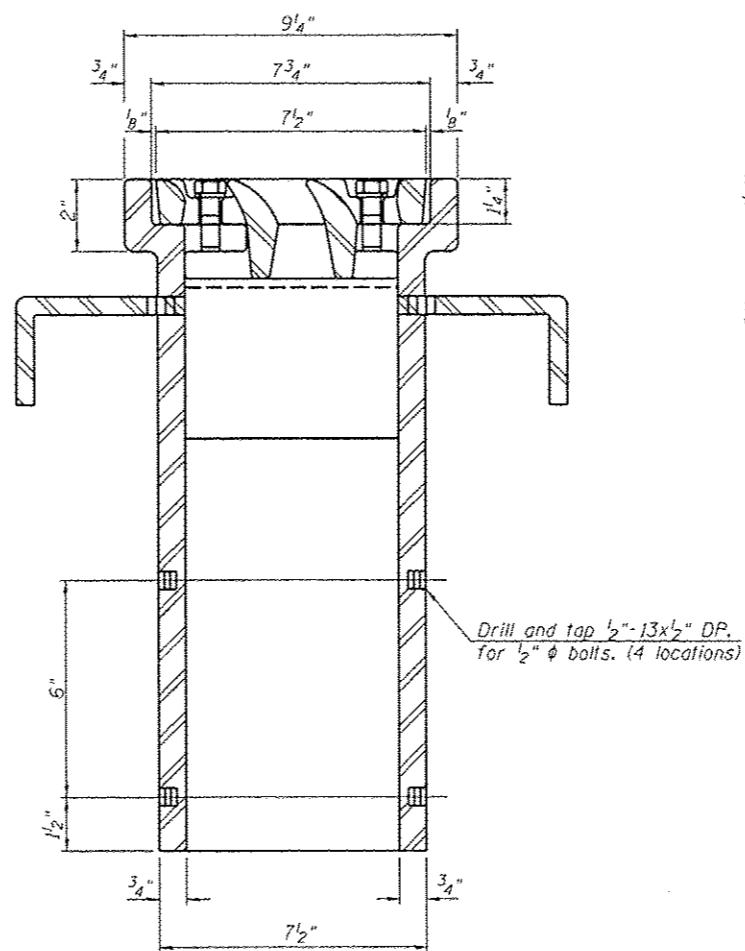
SHEET NO. 14 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04 029	12-00113-03-BR	PEORIA	62	37

CONTRACT NO. 89642
 ILLINOIS FED. AID PROJECT



See sheets 8 and 9 of 26 for scupper location relative to parapet.



Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

ANCHOR STUD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	2

DS-11 7-1-10

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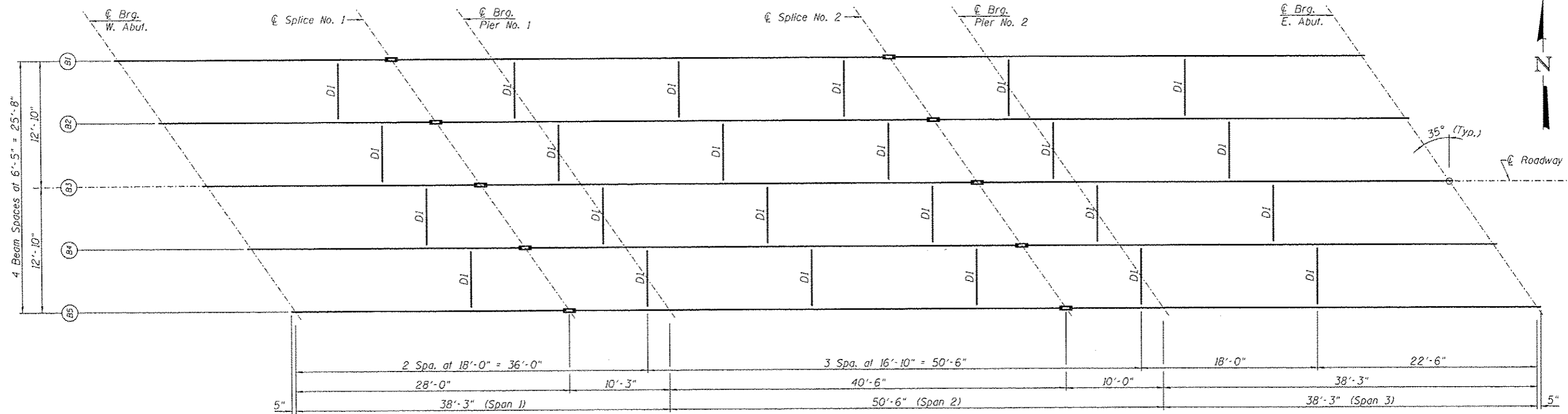
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PLOT SCALE :		
PLOT DATE : 10/15/2013		

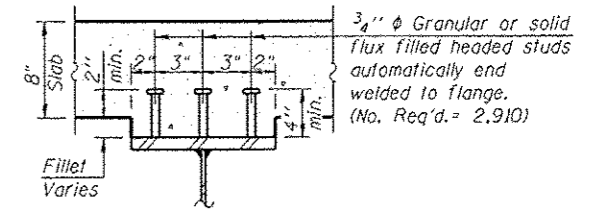
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DRAINAGE SCUPPER, DS-11
 STRUCTURE NO. 072-3150
 SHEET NO. 15 OF 26 SHEETS

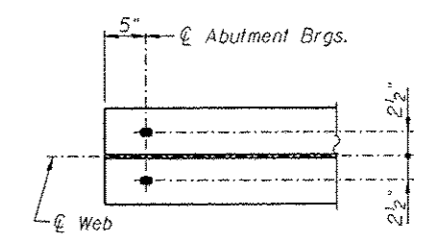
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	38
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	



FRAMING PLAN

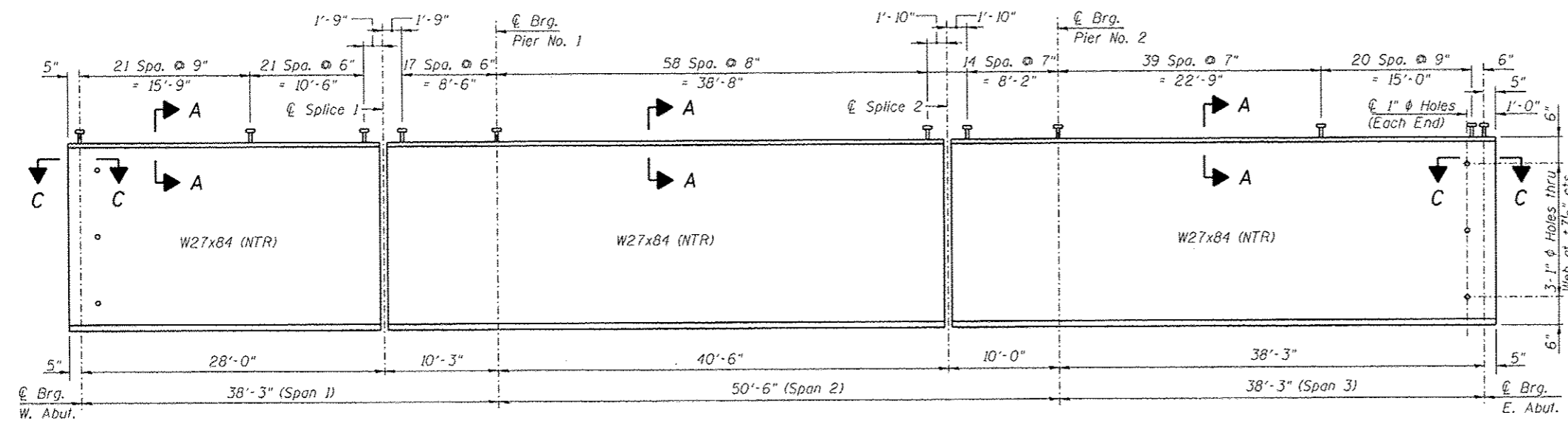


SECTION A-A



SECTION C'-C'

Notes:
 All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
 All beams, splice plates, connecting angles and diaphragms shall conform to the requirements of AASHTO M270, Grade 50W.
 Drains shall be located clear of all diaphragms.



GIRDER ELEVATION

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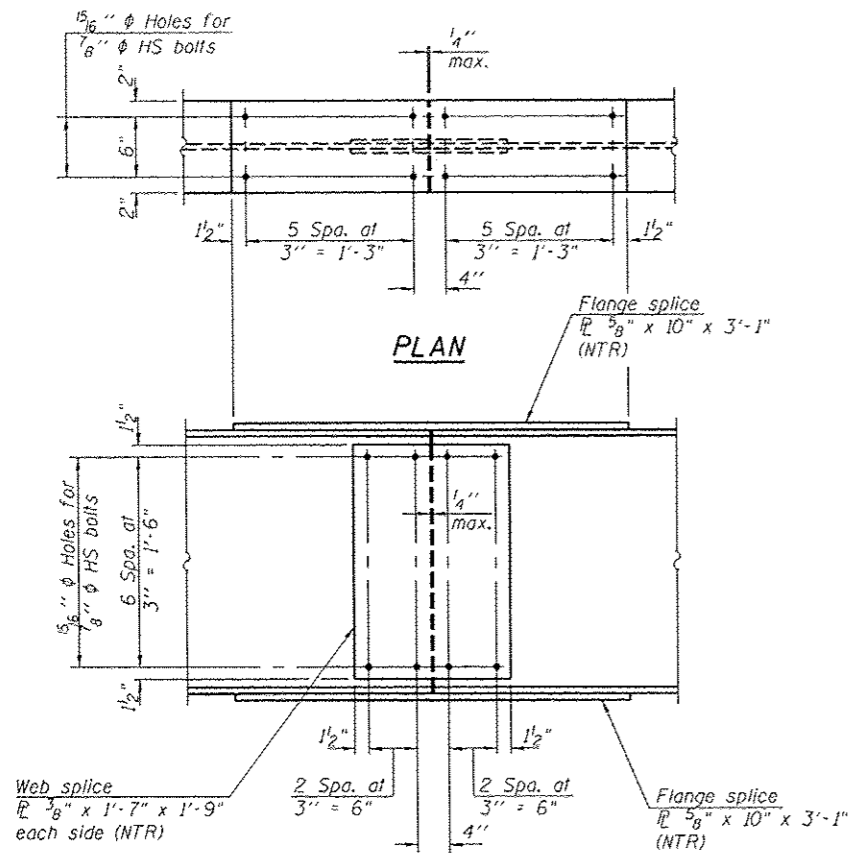


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PLOT SCALE :	CHECKED - MNM	REVISED
PLOT DATE : 10/15/2013	DRAWN - DAP	REVISED
	CHECKED - JGT	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

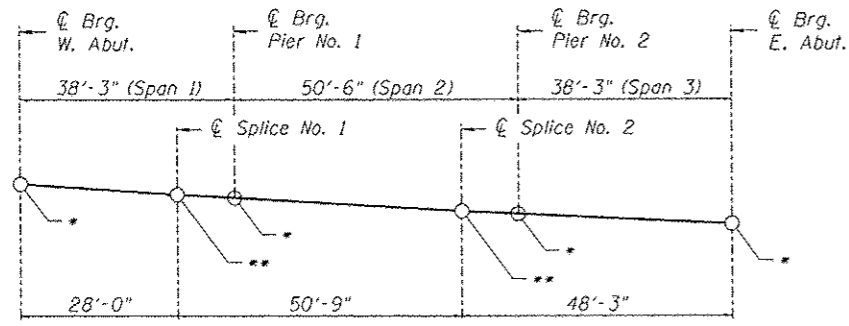
**STRUCTURAL STEEL - FRAMING PLAN
 STRUCTURE NO. 072-3150
 SHEET NO. 16 OF 26 SHEETS**

F.A. RTE. CH 029	SECTION 12-00113-03-BR	COUNTY PEORIA	TOTAL SHEETS 62	SHEET NO. 39
ILLINOIS FED. AID PROJECT			CONTRACT NO. 89642	



FIELD SPLICE DETAIL
(10 Required)

Note:
Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.



BLOCKING DIAGRAM

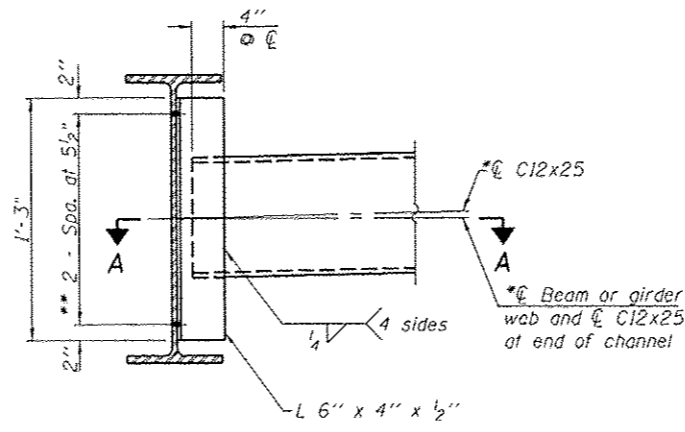
*See Table for Final Top of Beam Elevations at abutments and piers.
**Theoretical Top of Beam Elevations before dead load deflections.

TOP of BEAM ELEVATIONS TABLE
For Fabrication Only

Beam Number	℄ Brg. W. Abut.	℄ Splice No. 1	℄ Brg. Pier 1	℄ Splice No. 2	℄ Brg. Pier 2	℄ Brg. E. Abut.
Beam 1	596.25	594.34	593.74	591.37	590.90	589.10
Beam 2	596.07	594.18	593.59	591.26	590.80	589.04
Beam 3	595.89	594.03	593.45	591.16	590.71	588.98
Beam 4	595.16	593.63	593.06	590.81	590.36	588.67
Beam 5	595.03	593.23	592.67	590.45	590.02	588.36

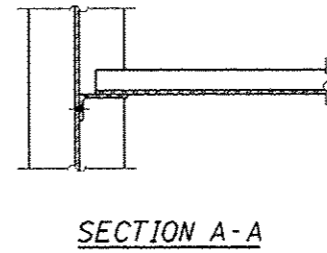
	0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I_s	2850	2850	2850
$I_c(n)$	8695	-	8695
$I_c(3n)$	6549	-	6549
$I_c(cr)$	-	4399	-
S_s	213	213	213
$S_c(n)$	333	-	333
$S_c(3n)$	302	-	302
$S_c(cr)$	-	260	-
DC1	0.744	0.744	0.744
MDC1	70	151	87
DC2	0.180	0.180	0.180
MDC2	17	37	21
DW	0.280	0.280	0.280
M _{DW}	27	57	33
$M_k \cdot \mu$	313	276	319
M_u (Strength I)	697	802	742
$\phi_r M_n$	1733	-	1716
f_s DC1	3.95	8.47	4.86
f_s DC2	0.68	1.68	0.83
f_s DW	1.05	2.62	1.29
f_s (Service II)	20.37	29.37	21.94
$0.95R_n F_y f$	47.50	47.50	47.50
f_s (Total)(Strength I)	-	38.97	-
$\phi_r F_n$	-	50	-
V_r	20.9	25.3	16.3

	W. or E. Abuts.	Pier 1 or 2
R _{DC1}	10.3	37
R _{DC2}	2.5	8.9
R _{DW}	3.9	13.9
$R_k \cdot \mu$	66.1	99.5
R _{Total}	82.8	159.3



INTERIOR DIAPHRAGM - 'D1'
(24 Required)

Note:
Two hardened washers required for each set of oversized holes.
*Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate C12x30, if utilized, shall be provided at no additional cost to the Department.
**3/4" φ HS bolts, 15/16" φ holes



SECTION A-A

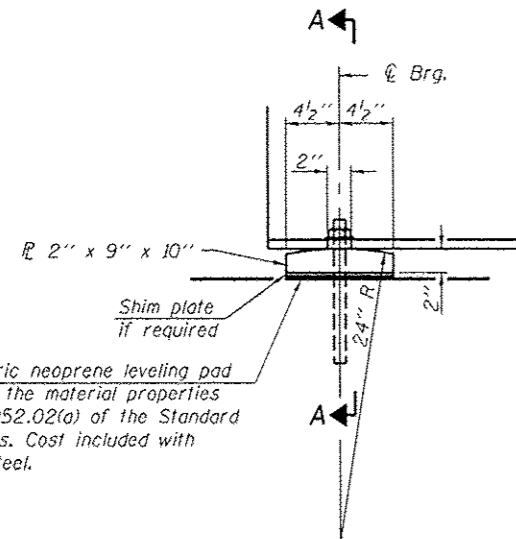
I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).

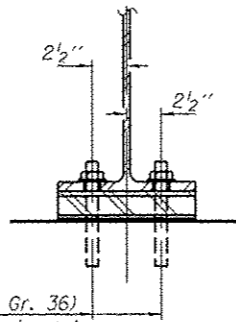
DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_k \cdot \mu$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_k \cdot \mu$
 $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
 f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_{sc}
 f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
 f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
 f_s ($k \cdot \mu$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_k \cdot \mu / S_c(n)$
 f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (k \cdot \mu)$
 $0.95R_n F_y f$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (k \cdot \mu)$
 $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
 V_r : Maximum factored shear range in span computed according to Article 6.10.10.



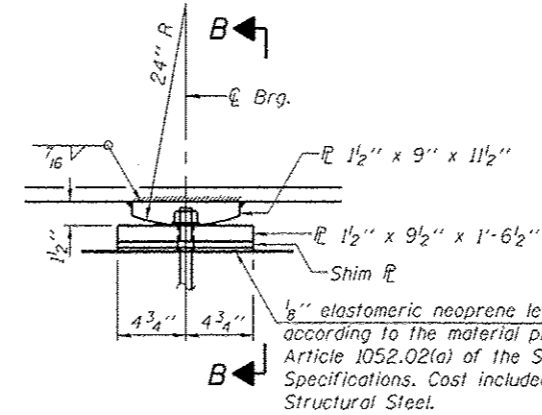
$\frac{1}{8}$ " elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT ABUTMENT

\odot 1" ϕ x 12" anchor bolts (F1554 Gr. 36) with 2 1/4" x 2 1/4" x 5/16" \odot washer under nut. 1 3/8" x 2" slotted hole in flange. 1/2" ϕ holes in bearing plate.

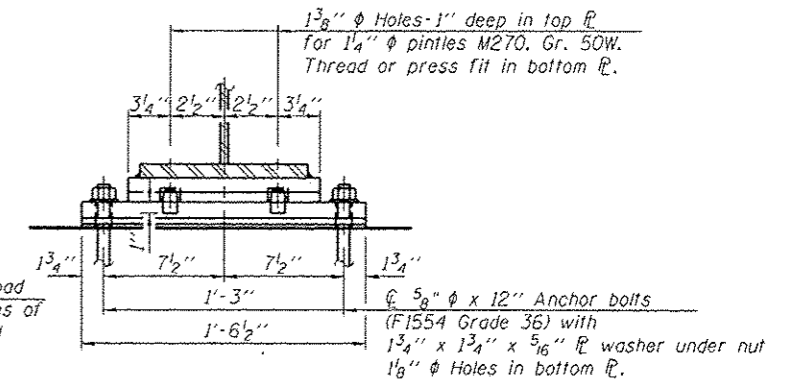


SECTION A-A

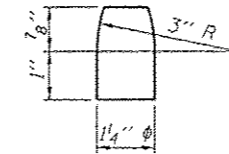


ELEVATION AT PIER

FIXED PIER BEARING DETAILS



SECTION B-B



PINTLE

INTEGRAL ABUTMENT FIXED BEARING DETAILS

Notes:

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

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

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

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The structural steel plates and pintles of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50W.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 5/8"	Each	20
Anchor Bolts, 1"	Each	20

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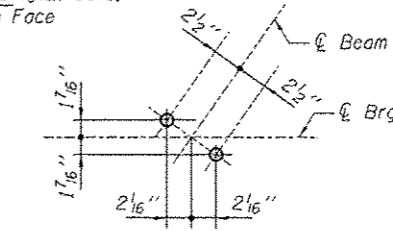
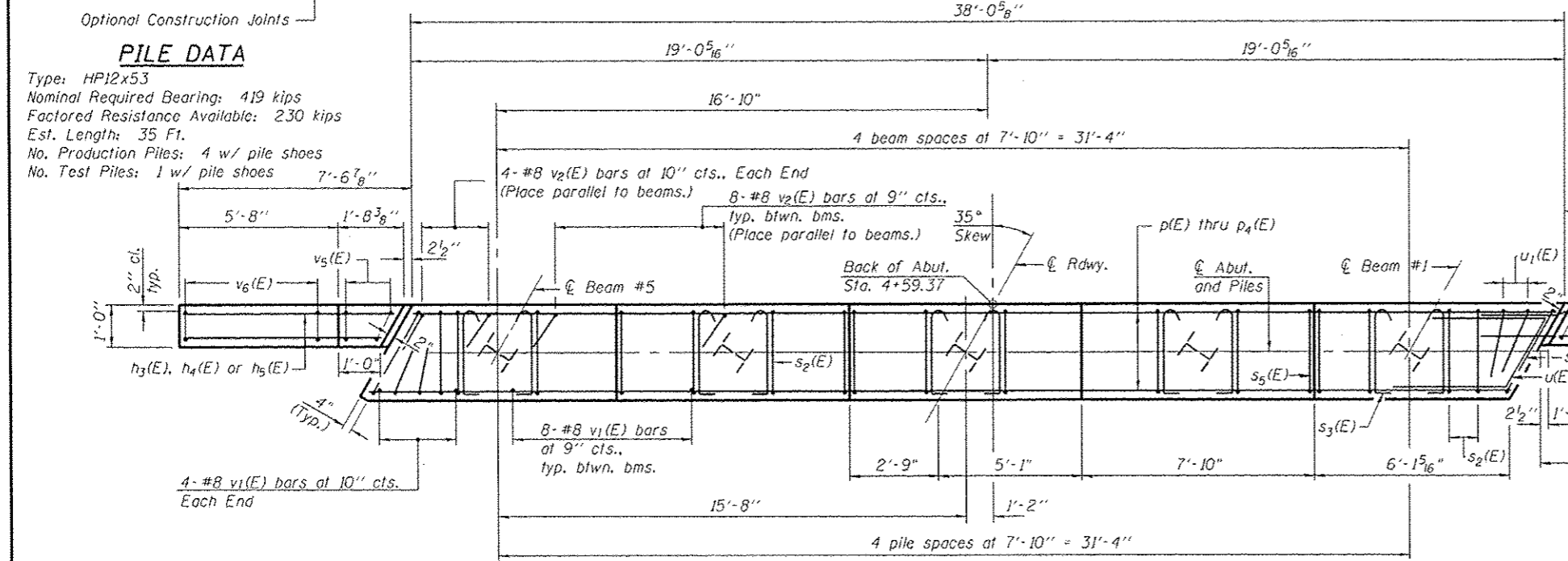
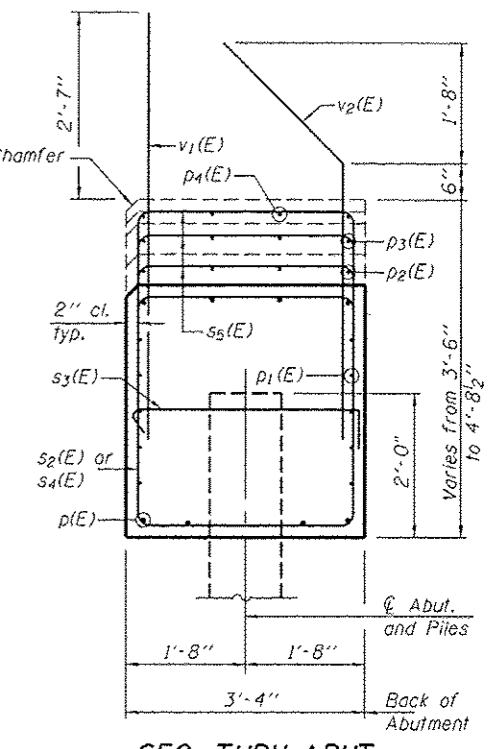
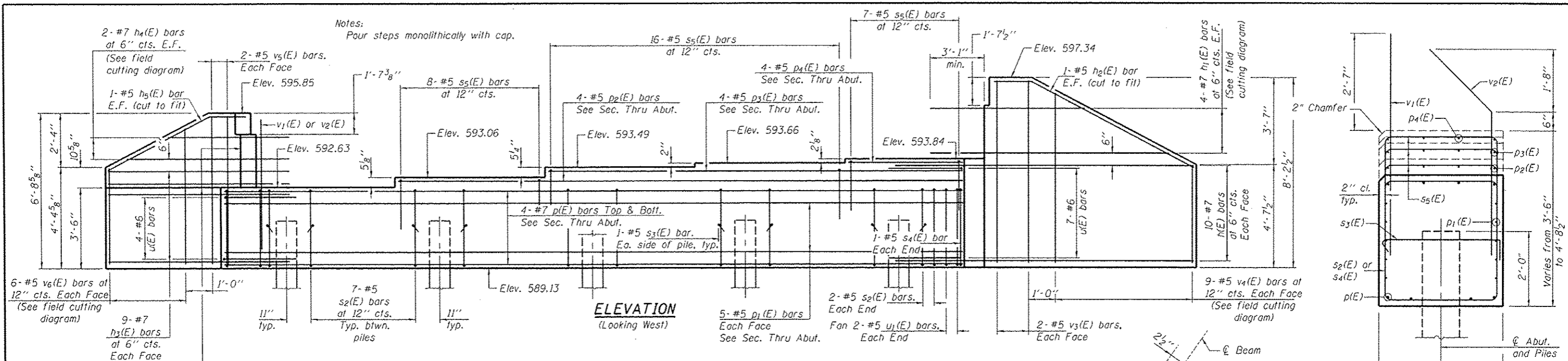
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PLOT DATE = 10/15/2013	DRAWN - DAP	REVISED
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BEARING DETAILS
STRUCTURE NO. 072-3150

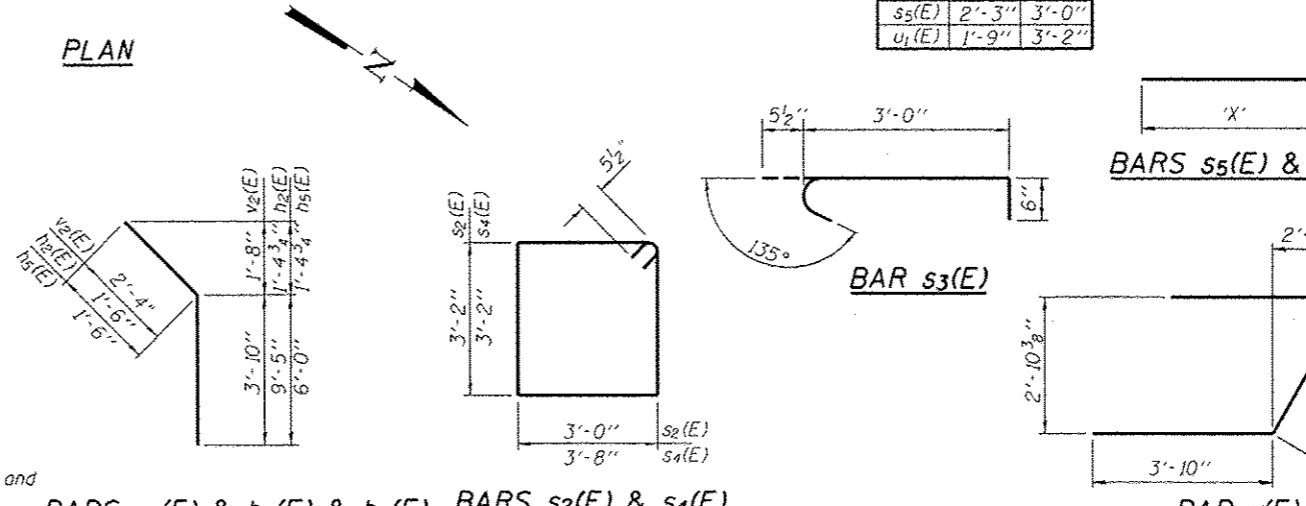
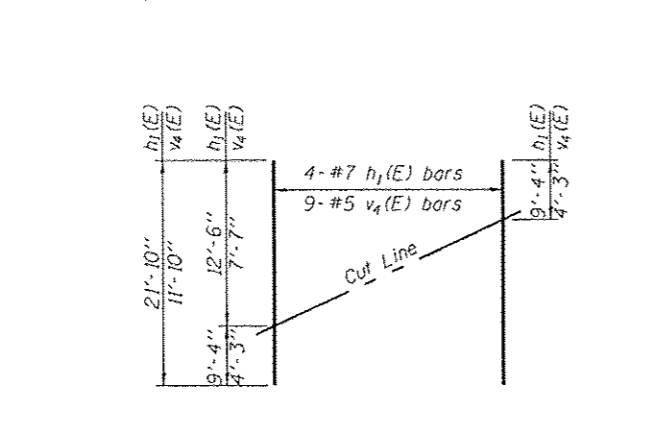
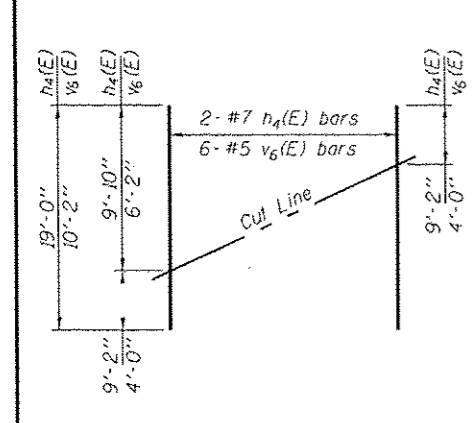
SHEET NO. 18 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	41
CONTRACT NO. 89642				
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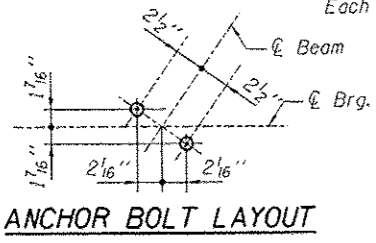
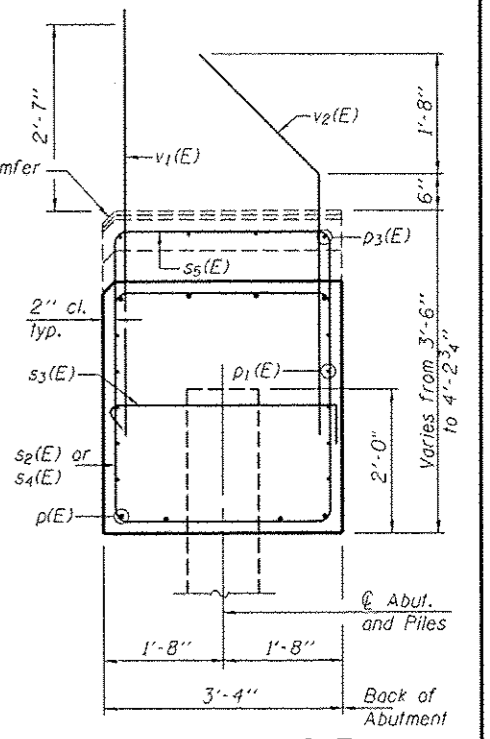
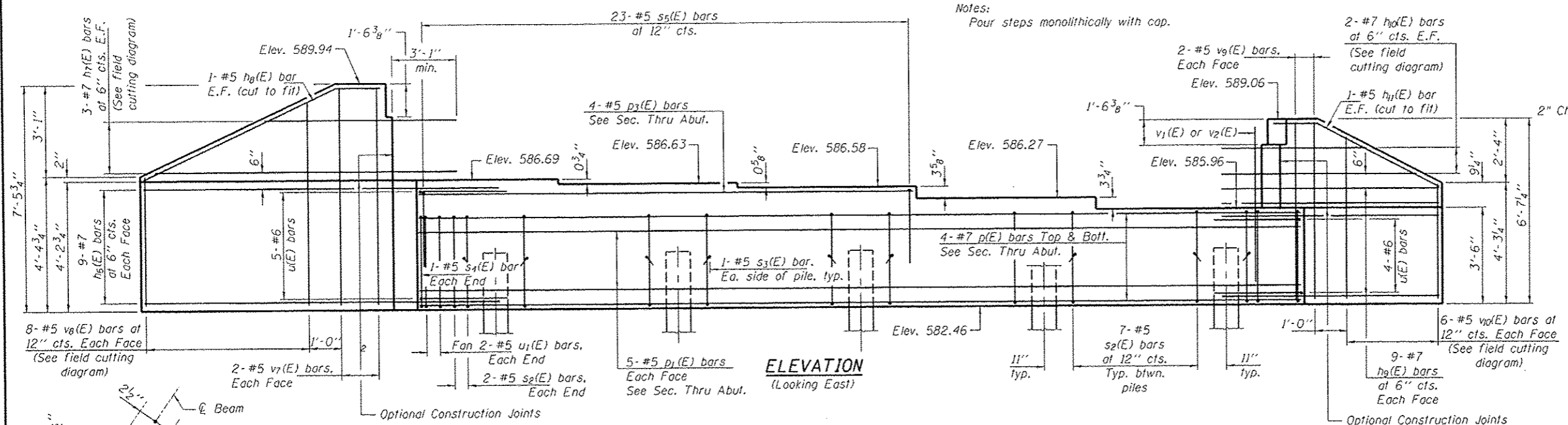


BILL OF MATERIAL

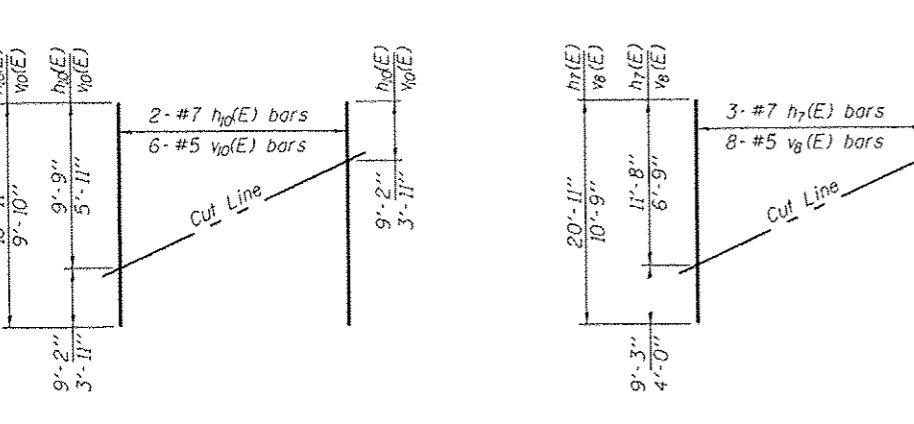
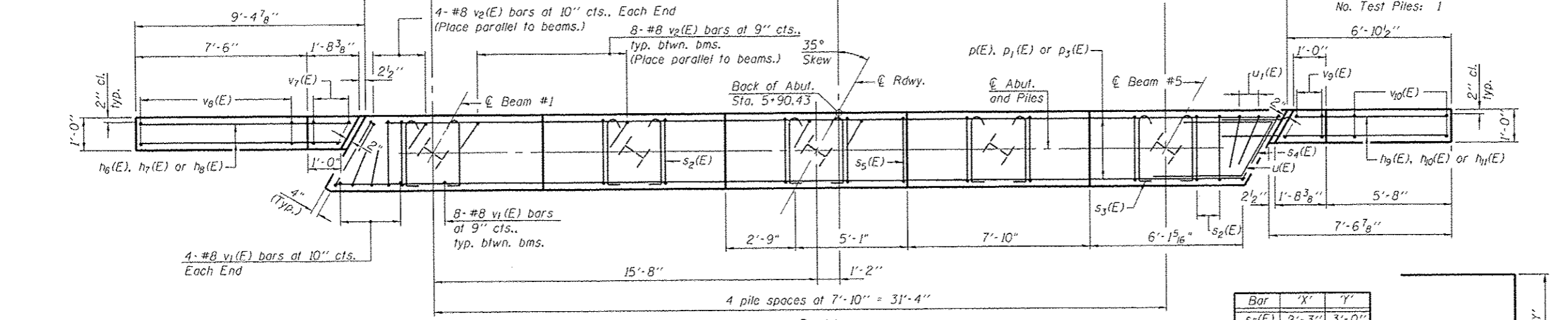
Bar	No.	Size	Length	Shape
h(E)	20	#7	13'-9"	
h1(E)	4	#7	21'-10"	
h2(E)	2	#5	10'-11"	
h3(E)	18	#7	10'-6"	
h4(E)	2	#7	19'-0"	
h5(E)	2	#5	7'-6"	
p(E)	8	#7	37'-8"	
p1(E)	10	#5	37'-8"	
p2(E)	4	#5	29'-3"	
p3(E)	4	#5	21'-6"	
p4(E)	4	#5	5'-10"	
s2(E)	32	#5	13'-3"	
s3(E)	10	#5	4'-0"	
s4(E)	2	#5	14'-7"	
s5(E)	31	#5	7'-6"	
u(E)	11	#6	11'-2"	
u1(E)	4	#5	6'-8"	
v1(E)	40	#8	5'-11"	
v2(E)	40	#8	6'-2"	
v3(E)	4	#5	7'-10"	
v4(E)	9	#5	11'-10"	
v5(E)	4	#5	6'-4"	
v6(E)	6	#5	10'-2"	
Structure Excavation	Cu. Yd.		88	
Concrete Structures	Cu. Yd.		23.9	
Reinforcement Bars, Epoxy Coated	Pound		4980	
Furnishing Steel Piles HP 12x53	Foot		140	
Driving Piles	Foot		140	
Test Pile Steel HP 12x53	Each		1	
Pile Shoes	Each		5	



Notes:
Four steps monolithically with cap.

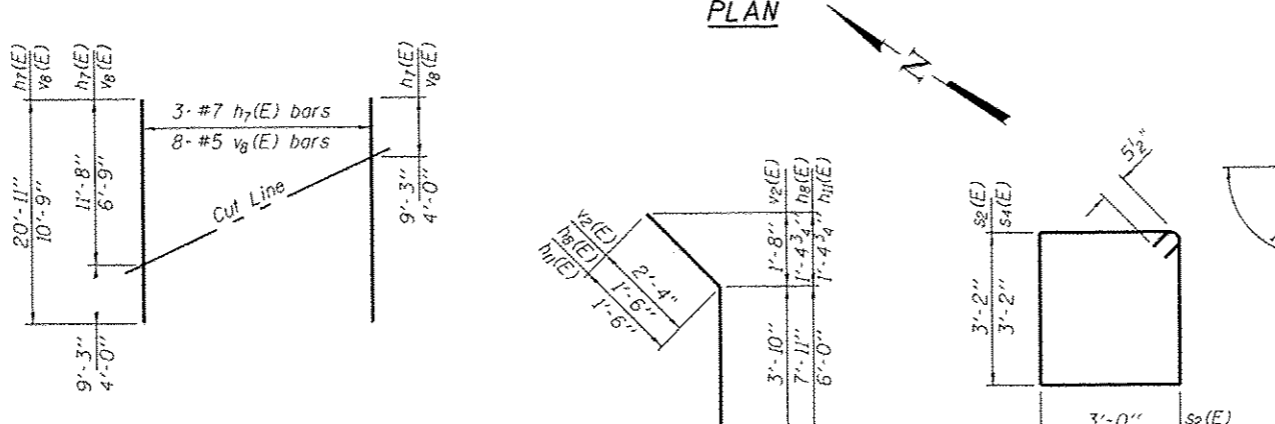


ANCHOR BOLT LAYOUT



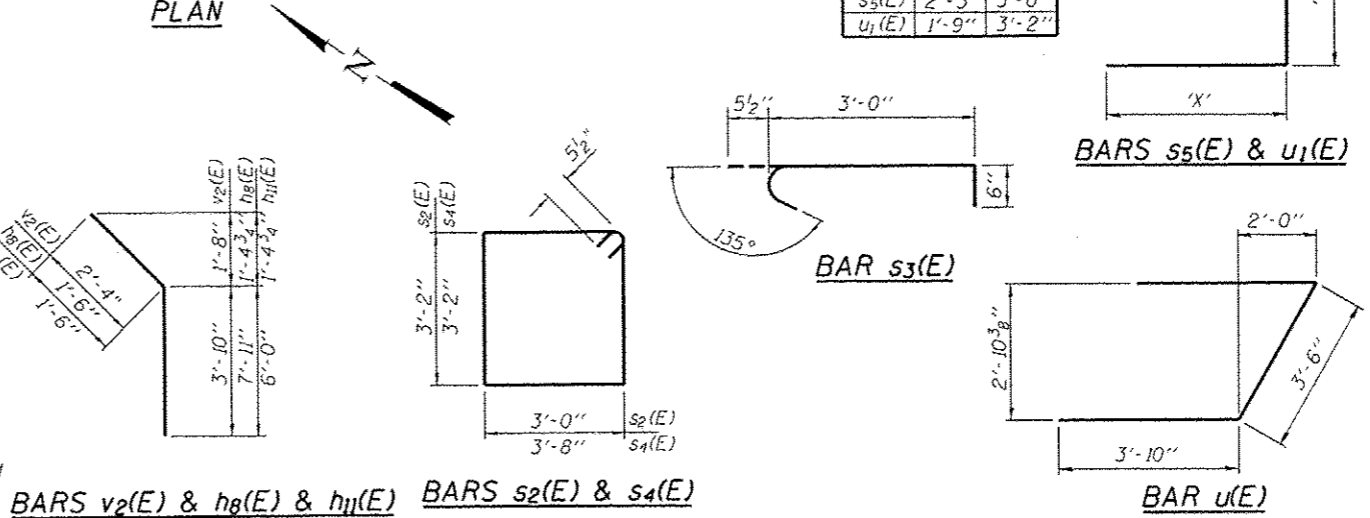
FIELD CUTTING DIAGRAM

Order h9(E) and v9(E) full length. Cut as shown and use remainder of bars in opposite face.



FIELD CUTTING DIAGRAM

Order h7(E) and v8(E) full length. Cut as shown and use remainder of bars in opposite face.



PILE DATA

Type: HP12x53
Nominal Required Bearing: 419 kips
Factored Resistance Available: 230 kips
Est. Length: 35 Ft.
No. Production Piles: 4
No. Test Piles: 1

SEC. THRU ABUT.

Dimensions at right angles to abutment.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h9(E)	18	#7	12'-4"	U
h7(E)	3	#7	20'-11"	U
h8(E)	2	#5	9'-5"	U
h9(E)	18	#7	10'-8"	U
h10(E)	2	#7	18'-11"	U
h11(E)	2	#5	7'-6"	U
p(E)	8	#7	37'-8"	U
p1(E)	10	#5	37'-8"	U
p3(E)	4	#5	21'-6"	U
s2(E)	32	#5	13'-3"	U
s3(E)	10	#5	4'-0"	U
s4(E)	2	#5	14'-7"	U
s5(E)	23	#5	7'-6"	U
u(E)	9	#6	11'-2"	U
u1(E)	4	#5	6'-8"	U
v1(E)	40	#8	5'-11"	U
v2(E)	40	#8	6'-2"	U
v7(E)	4	#5	7'-1"	U
v8(E)	8	#5	10'-9"	U
v9(E)	4	#5	6'-3"	U
v10(E)	6	#5	9'-10"	U

Structure Excavation	Cu. Yd.	84
Concrete Structures	Cu. Yd.	22.2
Reinforcement Bars, Epoxy Coated	Pound	4560
Furnishing Steel Piles HP 12x53	Foot	140
Driving Piles	Foot	140
Test Pile Steel HP 12x53	Each	1

For details of piles see sheet 23 of 26.

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USER NAME: ANDER00846
DESIGNED - JGT
CHECKED - MNM
DRAWN - DAP
CHECKED - JGT
PLOT SCALE:
PLOT DATE: 10/15/2013

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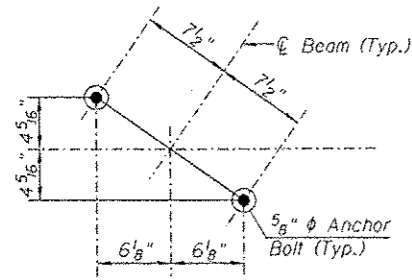
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DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 072-3150
SHEET NO. 20 OF 26 SHEETS

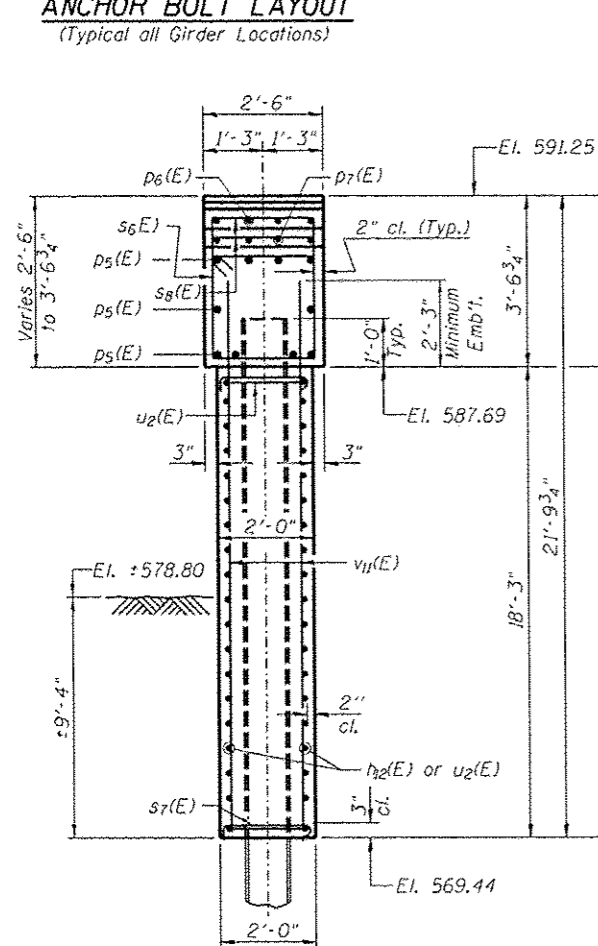
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	43

CONTRACT NO. 89642
ILLINOIS FED. AID PROJECT

Notes:
Space reinforcement in cap to miss anchor bolts.
Four steps monolithically with cap.



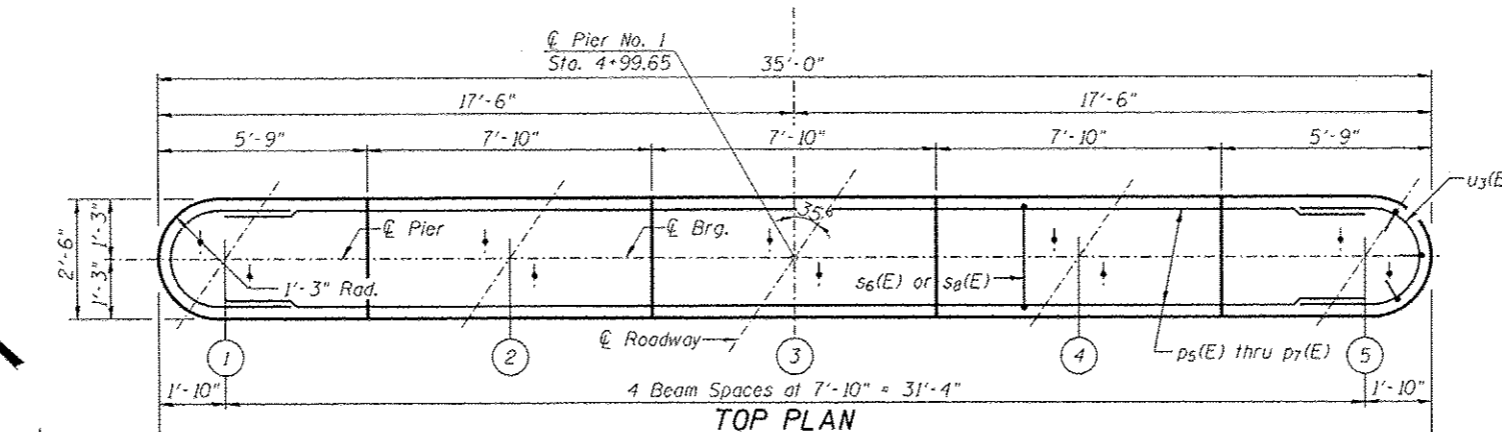
ANCHOR BOLT LAYOUT
(Typical all Girder Locations)



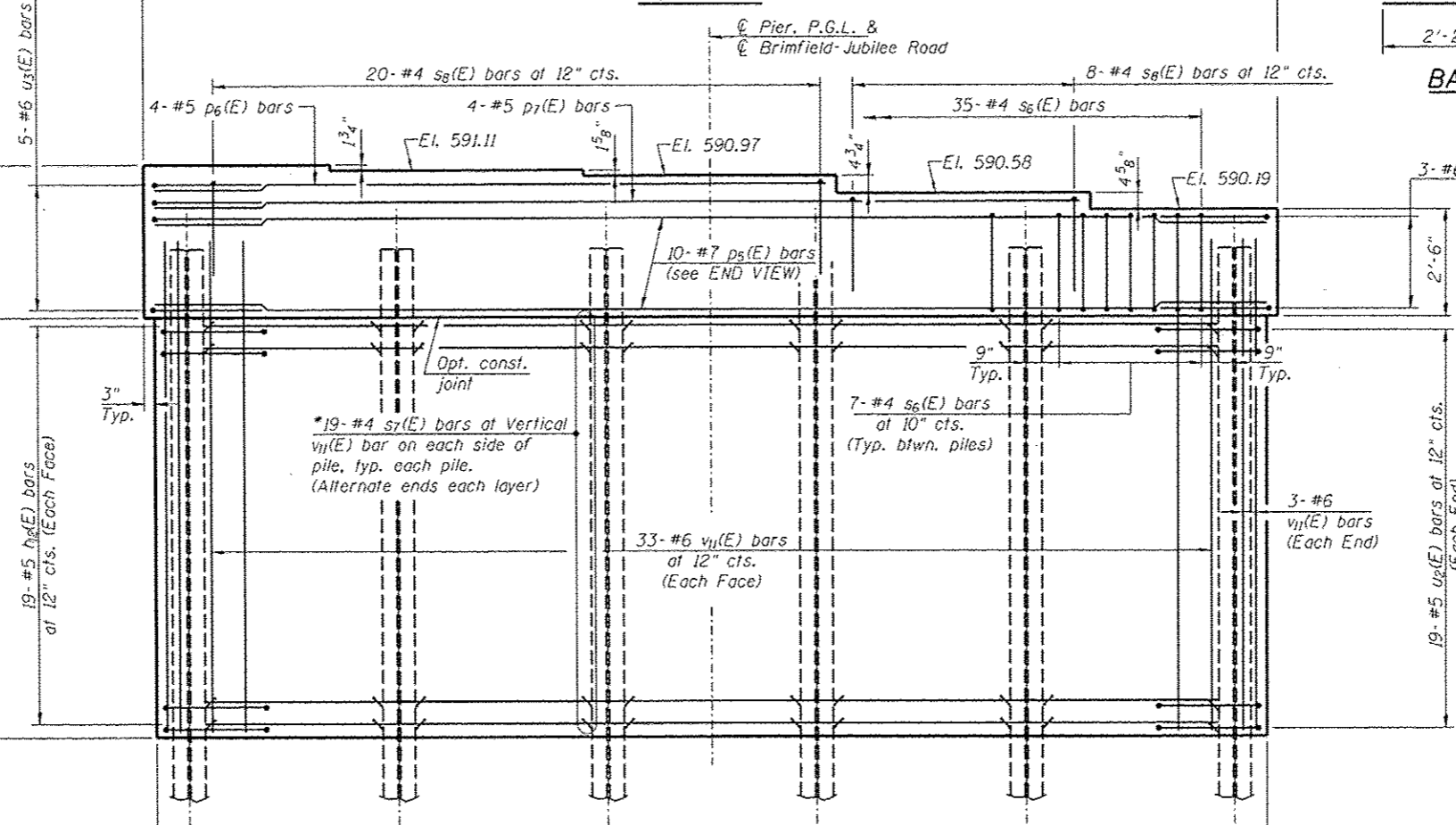
END VIEW

PILE DATA

Type: HP 12x63
Nominal Required Bearing: 497 kips
Factored Resistance Available: 273 kips
Est. Length: 36 Ft.
No. Production Piles: 5
No. Test Piles: 1

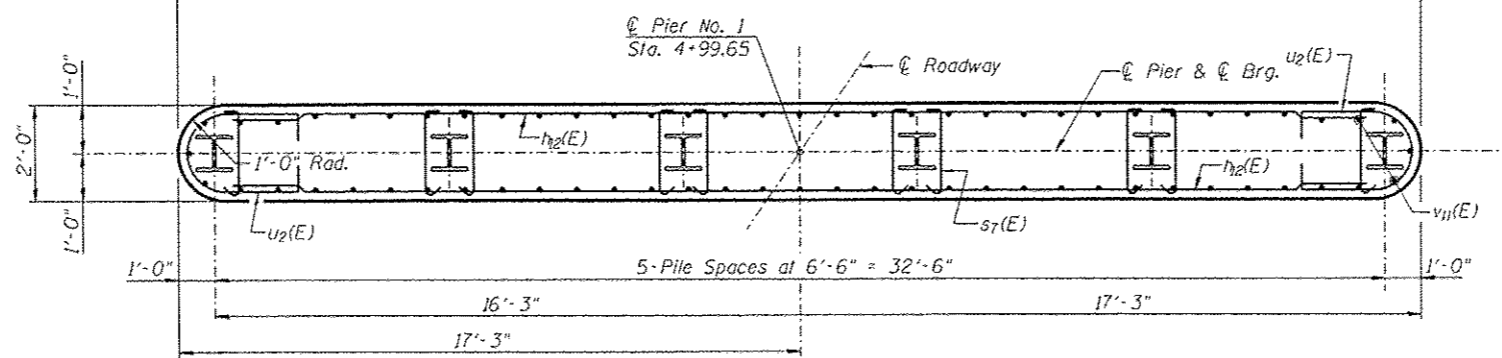


TOP PLAN

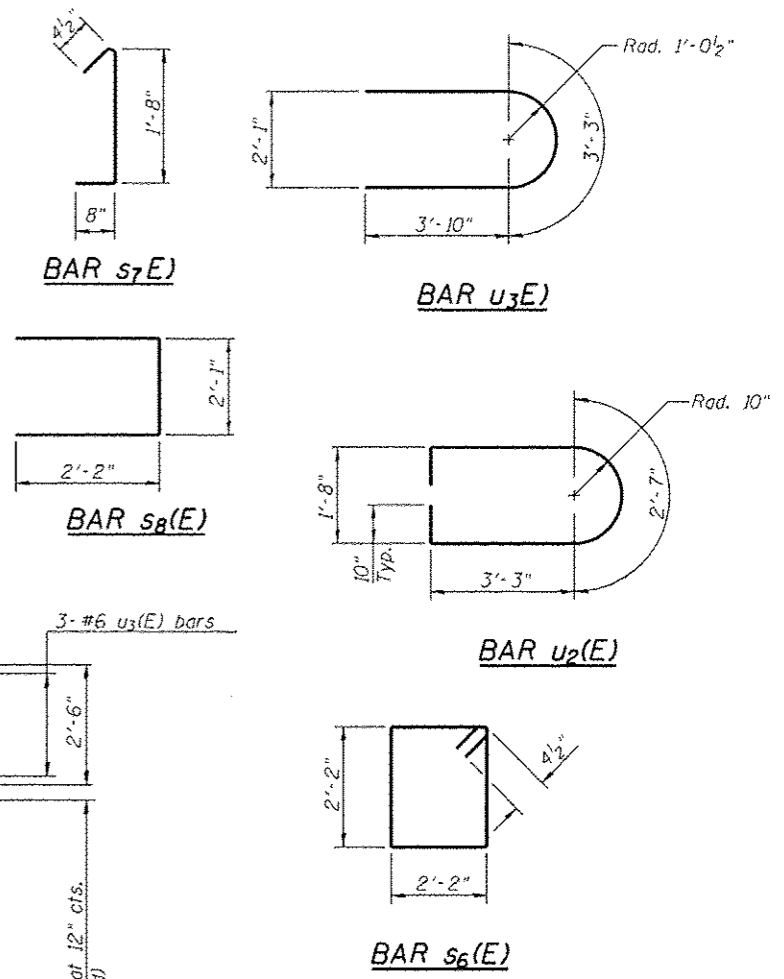


ELEVATION
(Looking East)

* Provide only 1 column of #4 s7(E) bars on inside of end piles.



PLAN



BILL OF MATERIAL (Pier 1)

Bar	No.	Size	Length	Shape
h2(E)	38	#5	32'-6"	—
p5(E)	10	#7	32'-6"	—
p6(E)	4	#5	20'-0"	—
p7(E)	4	#5	27'-10"	—
s6(E)	35	#4	9'-5"	□
s7(E)	190	#4	2'-9"	□
s8(E)	28	#4	6'-5"	□
u2(E)	38	#5	10'-9"	U
u3(E)	8	#6	10'-11"	U
v11(E)	72	#6	20'-4"	—
Cofferdam Excavation		Cu. Yd.	162	
Concrete Structures		Cu. Yd.	56.1	
Reinforcement Bars, Epoxy Coated		Pound	5590	
Furnishing Steel Piles, HP 12x63		Foot	180	
Driving Piles		Foot	180	
Test Pile Steel, HP 12x63		Each	1	

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USER NAME = ANDER00846
DESIGNED - JGT
CHECKED - MMN
DRAWN - DAP
PLOT DATE = 10/15/2013

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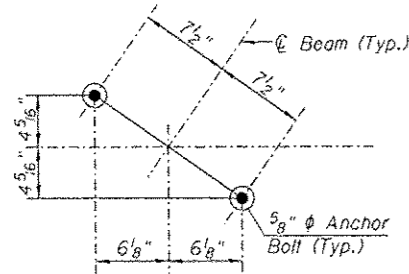
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER NUMBER 1
STRUCTURE NO. 072-3150

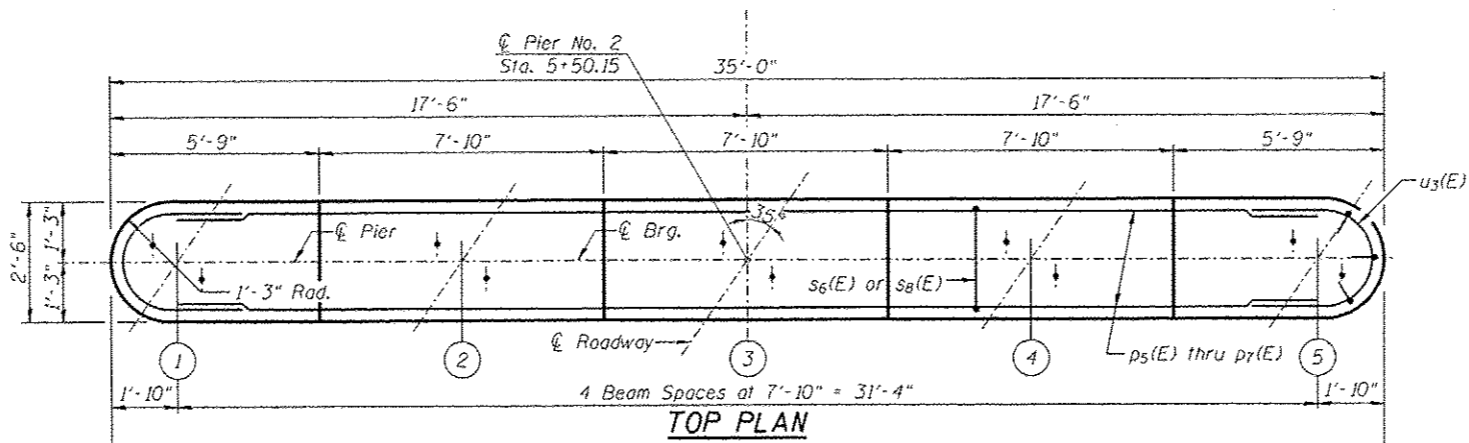
SHEET NO. 21 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	44
			CONTRACT NO. 89642	
ILLINOIS FED. AID PROJECT				

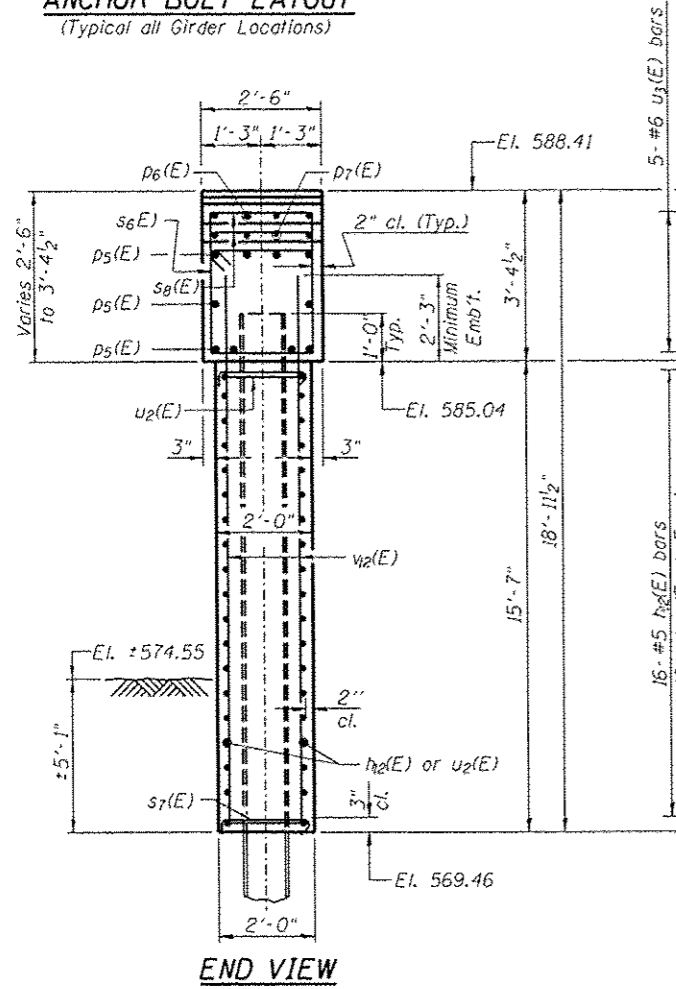
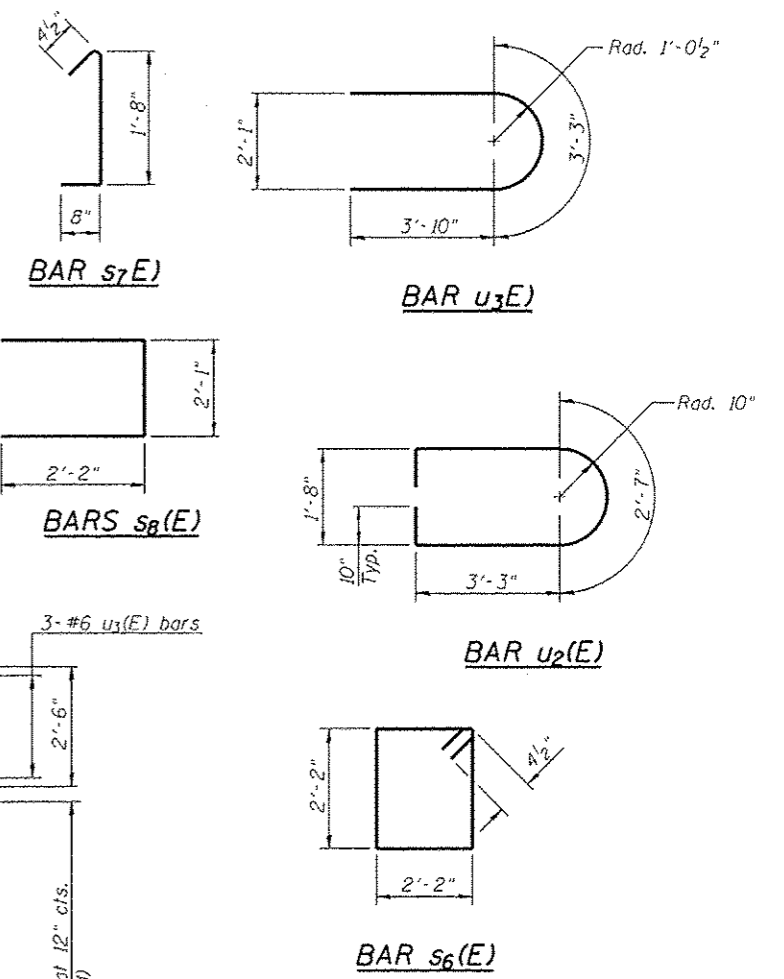
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



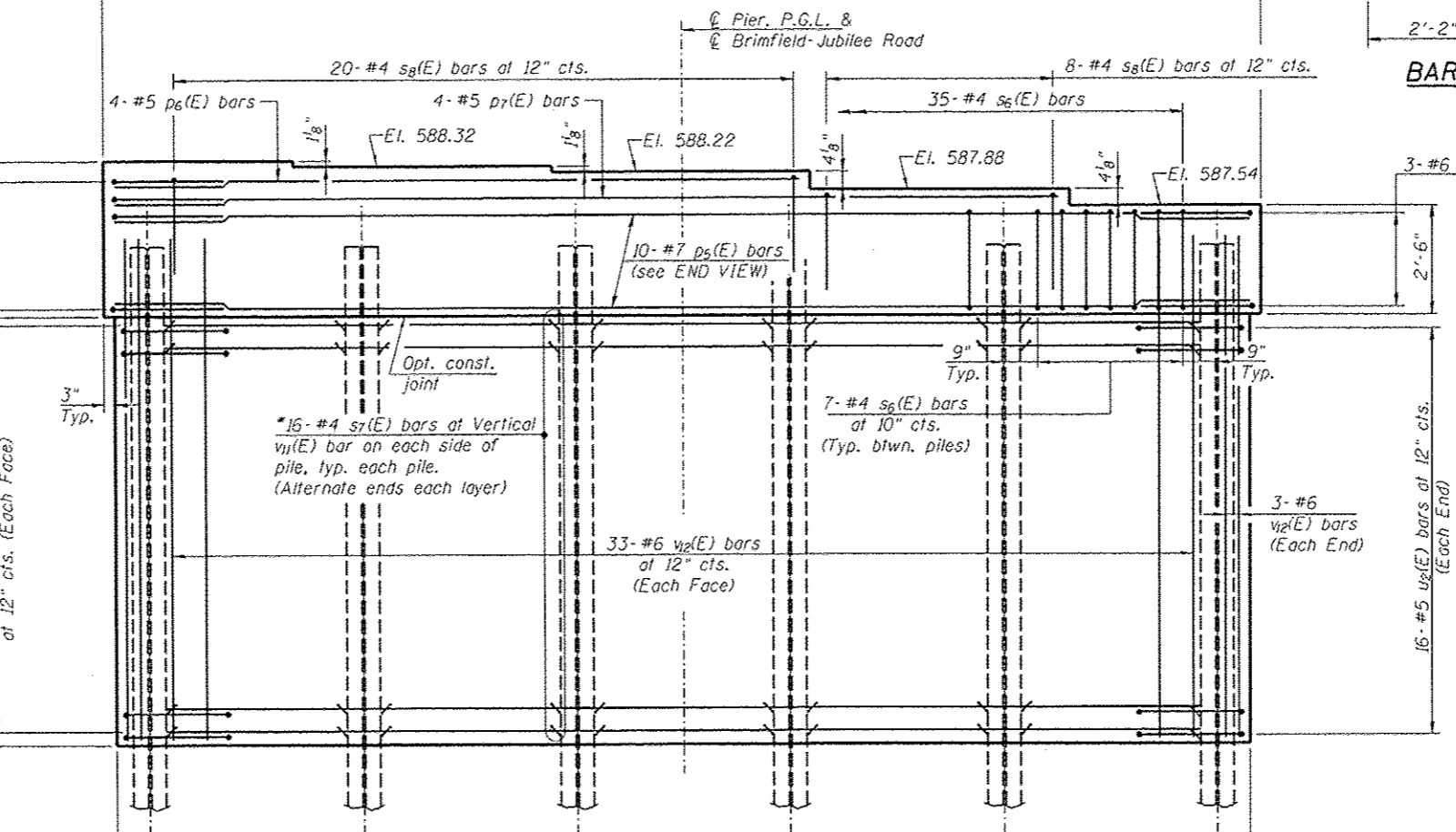
ANCHOR BOLT LAYOUT
(Typical all Girder Locations)



TOP PLAN



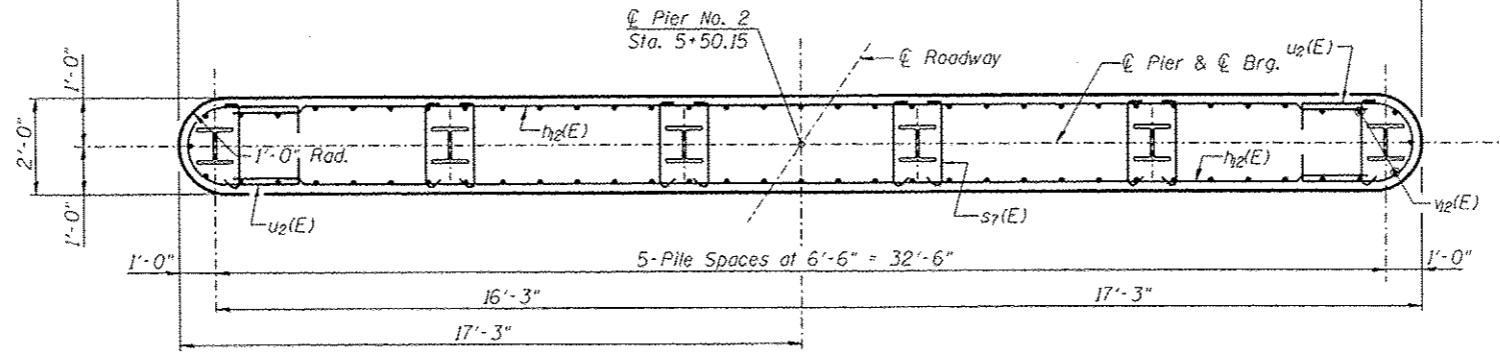
END VIEW



ELEVATION
(Looking East)

PILE DATA

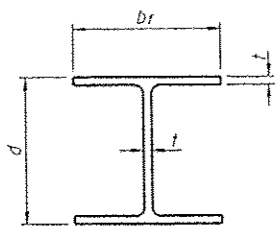
Type: HP 12x63
Nominal Required Bearing: 497 kips
Factored Resistance Available: 273 kips
Est. Length: 32 Ft.
No. Production Piles: 5
No. Test Piles: 1



PLAN

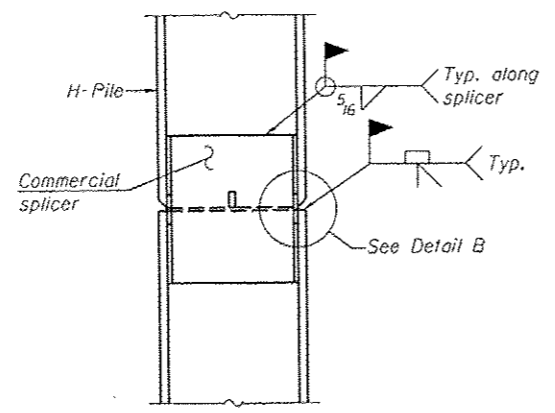
BILL OF MATERIAL (Pier 2)

Bar	No.	Size	Length	Shape
h2(E)	32	#5	32'-6"	—
p5(E)	10	#7	32'-6"	—
p6(E)	4	#5	20'-0"	—
p7(E)	4	#5	27'-10"	—
s6(E)	35	#4	9'-5"	□
s7(E)	160	#4	2'-9"	U
s8(E)	28	#4	6'-5"	U
u2(E)	32	#5	10'-9"	U
u3(E)	8	#6	10'-11"	U
v2(E)	72	#6	17'-8"	—
Cofferdam Excavation	Cu. Yd.		88	
Concrete Structures	Cu. Yd.		49.1	
Reinforcement Bars, Epoxy Coated	Pound		4980	
Furnishing Steel Piles, HP 12x63	Foot		160	
Driving Piles	Foot		160	
Test Pile Steel, HP 12x63	Each		1	

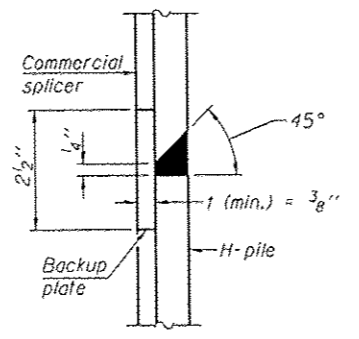


STEEL PILE TABLE

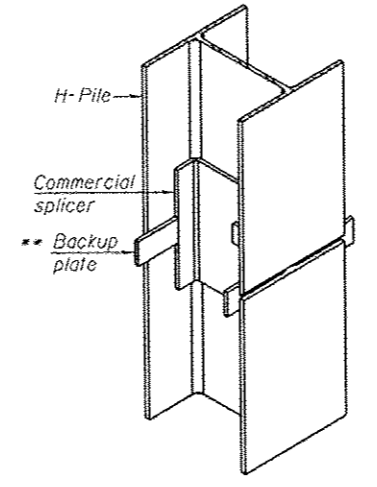
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

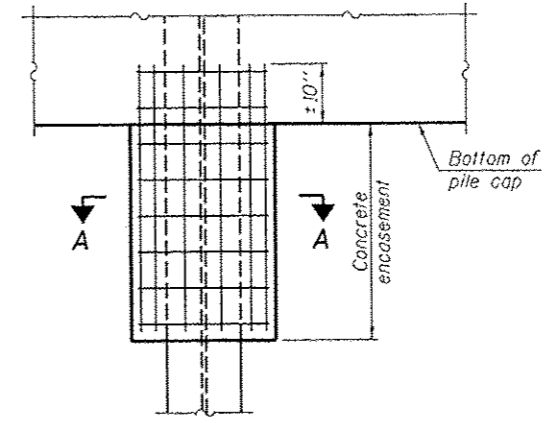


DETAIL "B"



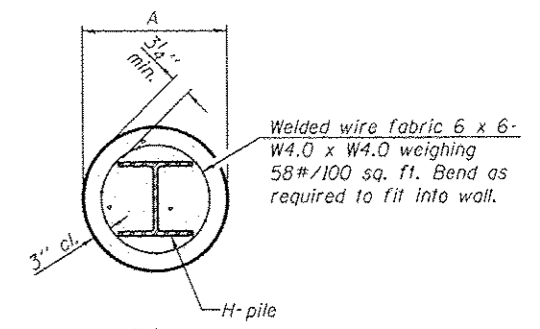
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



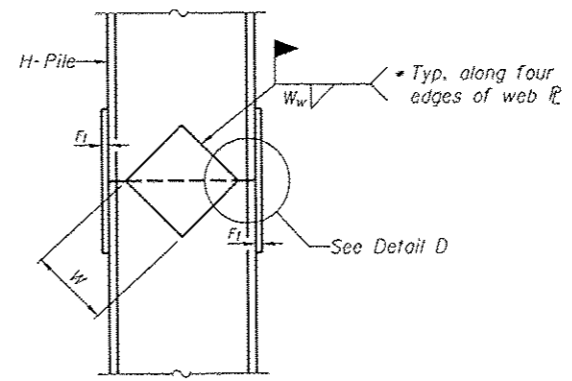
ELEVATION

PILE ENCASEMENT

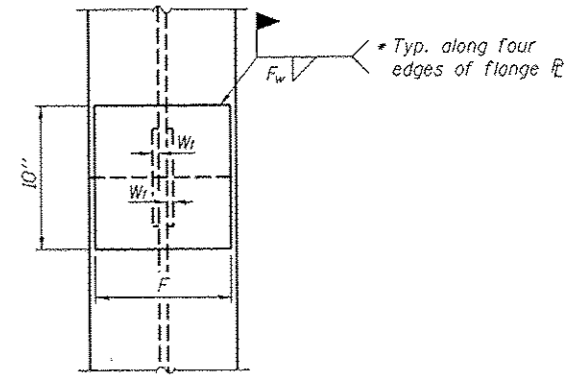


SECTION A-A

Note: Forms for encasement may be omitted when soil conditions permit.



ELEVATION

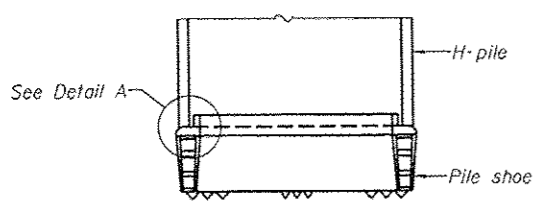


END VIEW

DETAIL D

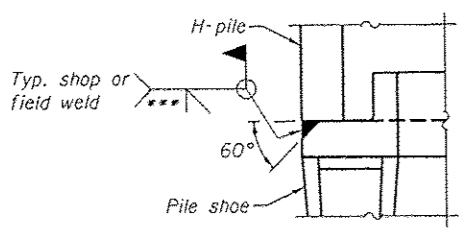
WELDED PLATE FIELD SPLICE

Designation	F	F ₁	F _w	W	W ₁	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 3/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 3/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 3/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 3/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 3/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 3/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1 1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1 1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1 1/2"	3/8"

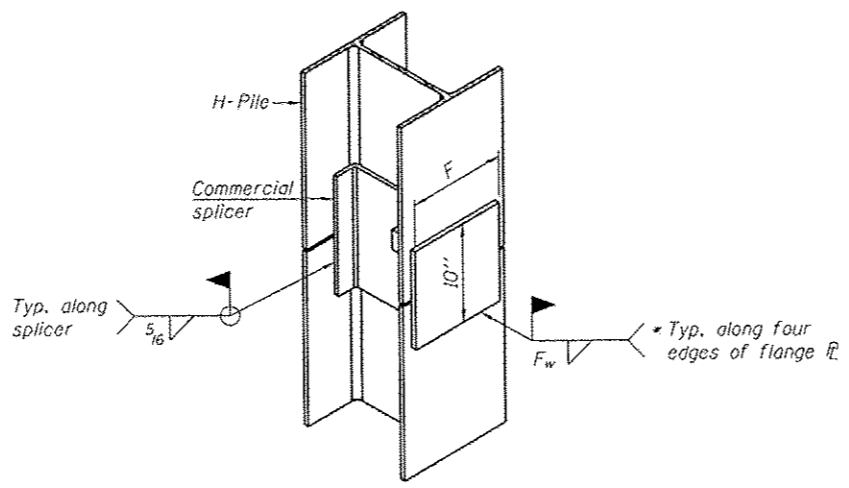


ELEVATION

H-PILE SHOE ATTACHMENT



DETAIL A



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note: The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-27-12

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HP PILE DETAILS
STRUCTURE NO. 072-3150
 SHEET NO. 23 OF 26 SHEETS

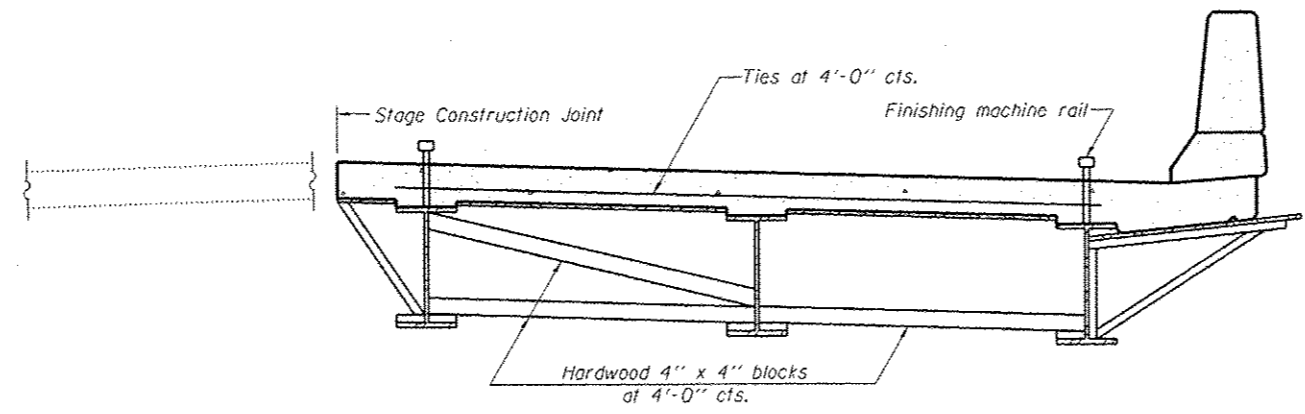
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	46
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

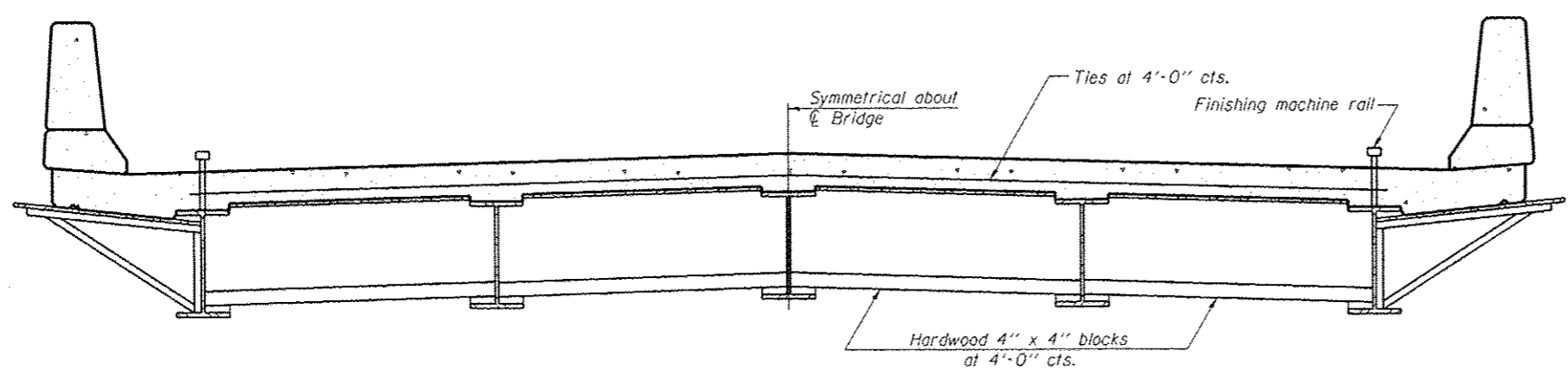
The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



**FORM BRACES FOR
STAGE CONSTRUCTION**



**FORM BRACES FOR
STANDARD CONSTRUCTION**

SB-1 7-1-10

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PLOT DATE : 10/15/2013	DRAWN - DAP	REVISED
	CHECKED - JGT	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CANTILEVER FORMING BRACKETS
STRUCTURE NO. 072-3150**

SHEET NO. 24 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	47
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

B-01
Sta. 4+98.88, 18.93' LT

Elevation	N	Qu	WZ	Description
576.1				Brown SANDY LOAM
574.1	DD 4	26		Loose, Brown, Fine- To Medium-Grained SAND With Considerable Silty Clay
572.1	Oh 3	0.4	28	Soft, Dark Gray SILTY CLAY With Trace Of Coarse-Grained Sand And Organic Matter
571.0				Hard, Dark Gray, Near CLAY SHALE
569.1	28	4.4	14	
566.5	19	2.1	15	Very Stiff, Gray, Near CLAY SHALE
	43	3.4	11	
561.6	57	4.3	9	Hard, Dark Gray CLAY SHALE
559.1	55	2.8	11	Very Stiff, Dark Gray CLAY SHALE
556.6	97/3"		9	Hard, Gray SANDSTONE
555.9	2.1	11		Very Stiff, Blue-Gray SILTSTONE RC REC: 53.3% ROD: 46.6%
552.0				Gray SANDSTONE
550.2	703			Hard, Gray LIMESTONE
549.8				RC REC: 85.0% ROD: 9.2% Gray FRACTURED LIMESTONE
549.4				Gray FRACTURED SANDSTONE
546.2				Gray LIMESTONE
545.3				Gray FRACTURED SANDSTONE RC REC: 88.3% ROD: 15.0%
542.4				Gray LIMESTONE
542.1				Gray SILT
541.0				Stiff, Gray SILTSTONE
	1.5	12		RC REC: 76.7% ROD: 10.0%
536.1				EXPLORATORY BORING DISCONTINUED

B-02
Sta. 5+21.17, 17.70' RT

Elevation	N	Qu	WZ	Description
575.0	DD			No Surface Cover
574.0				
571.0	3		30	Very Soft, Brown SANDY CLAY LOAM
	6	0.4	29	Soft, Gray-Brown And Brown SILTY CLAY
568.6	16	2.9	14	Very Stiff, Dark Gray, Near CLAY SHALE
565.5	16	1.4	19	Stiff, Dark Gray CLAY
563.0	25	1.9	15	Stiff, Blue-Gray, Near CLAY SHALE
560.5	42	3.6	12	Very Stiff, Blue-Gray, Near CLAY SHALE
558.0	87/2"		6	Hard, Gray SHALE
555.0	72/2"		6	Gray SANDSTONE (Poor Recovery) RC REC: 10.0% ROD: 0.0%
550.0	814			Gray LIMESTONE
549.3				RC REC: 76.7% ROD: 8.2% Dark Gray FRACTURED SANDSTONE And SHALE
547.5				Dark Gray FRACTURED SANDSTONE
545.0	1050			Gray LIMESTONE
544.0				Dark Gray FRACTURED SHALE RC REC: 60.0% ROD: 20.4%
540.0	94.7			Dark Gray SHALE RC REC: 58.3% ROD: 29.2%
535.0				EXPLORATORY BORING DISCONTINUED

B-03
Sta. 4+65.85, 12.42' RT.

Elevation	N	Qu	WZ	Description
596.2				BITUMINOUS CONCRETE
595.5				Brown CA-6
594.8				Medium, Brown SANDY CLAY With Some Coarse-Grained SAND
592.2	4	0.8	18	
	5	0.7	26	Medium, Gray-Brown SILTY CLAY LOAM
589.2	5	0.6	27	Medium, Light Brown SILTY CLAY
586.7	4	0.4	24	Soft To Medium, Light Brown SILT LOAM
	4	0.5	23	
	8	0.8	21	
579.2				Soft, Brown And Light Brown SILT LOAM With Occasional Fine-Grained Gravel
577.2	Oh 5	0.4	23	
577.0	6			Loose, Dark Brown, Fine-To Medium-Grained SAND With Considerable Silty Clay
573.0	DD			
572.7	26	1.4	25	Stiff, Brown SILTY CLAY With Occasional Fine-Grained Gravel
571.7	41	5.7	13	Hard, Dark Gray, Near CLAY SHALE
569.2				Medium, Dark Gray CLAY
566.7	27	0.7	27	
564.2	35			Gravel In Shoe - No Recovery
	23	2.6	11	Very Stiff, Dark Gray CLAY SHALE
	27	3.2	9	
557.2	100/1"			Gray LIMESTONE AUGER REFUSAL AT (-)39.0 Feet EXPLORATORY BORING DISCONTINUED

LEGEND

N	Standard Penetration Test N (blows/ft)
Qu	Unconfined Strength (tsf)
RC	Rock Core
w%	Natural Moisture Content (%)
DD	Water Surface Elevation Encountered in Boring
558.10	DD = during drilling
	Oh - upon completion

Notes:

- All boring elevations have been adjusted to the current vertical datum.
- Borings B-1, B-2, and B-3 were drilled March 17 & 18, 2010.
- Borings B-4 and B-5 were drilled May 9 & 10, 2013.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE DATA PROFILE (Sheet 1 of 2)
STRUCTURE NO. 072-3150

SHEET NO. 25 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	48
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

B-04
Sta. 5+48.75, 27.81' LT

	N	Qu	W%	
581.0				Dark Brown SILTY CLAY Organic Topsoil
580.3	6	1.4	18	Stiff, Dark Brown SILTY CLAY With Some Coarse-Grained Sand And Cinders (Fill)
576.8	7	2.2	19	Very Stiff, Light Brown SILTY CLAY With Trace Of Fine-Grained Gravel (Fill)
574.7	Oh			Stiff, Dark Gray And Brown CLAY LOAM With Some Fine-Grained Gravel (Fill)
570.8	4	1.0	22	
571.8	5	1.5	22	Stiff, Dark Gray CLAY With Some Fine-Grained Gravel
569.6	8	3.0	22	Very Stiff, Brown And Gray-Brown CLAY With Some Fine-Grained Gravel
566.6	11	2.3	25	Very Stiff, Gray And Light Brown SILTY CLAY
563.8	48	4.7	10	Hard, Gray CLAY SHALE
	57	-	9	
558.9	58/4"	-	8	Hard, Gray SHALE
556.8	61/4"	-	10	Very Dense, Gray SANDSTONE
	97/6"	-	11	
552.3	96/2"	-	7	Hard, Gray SANDY SHALE
548.0	RC REC: 98.3% ROD: 25.0%	5.6		Hard, Gray SHALE
	RC REC: 76.7% ROD: 39.2%	80.8		
541.0				EXPLORATORY BORING DISCONTINUED

B-05
Sta. 5+94.97, 11.95' LT

	N	Qu	W%	
588.3				BITUMINOUS CONCRETE (Saturated)
587.6				CRUSHED LIMESTONE (Saturated)
586.1	4	0.9	24	Medium, Brown And Light Brown SILTY CLAY LOAM With Trace Of Fine-Grained Gravel And Cinders (Fill)
584.0	3	0.9	25	Medium, Light Brown and Brown SILTY CLAY With Trace Of Fine-Grained Gravel (Fill)
582.0	7	1.5	17	Stiff, Brown CLAY LOAM With Trace Of Fine-Grained Gravel (Possible Fill)
579.0	6	0.9	25	Medium, Dark Brown and Brown SILTY CLAY LOAM (Possible Fill)
	4	0.7	26	
573.3	3	0.9	31	Medium, Dark Gray SILTY CLAY With Trace Of Organic Matter
571.1	7	2.8	20	Very Stiff, Dark Gray CLAY
	9	2.9	20	
	9	2.6	20	
	11	3.4	22	
560.8	13	0.9	25	Medium, Light Brown, Blue-Gray And Olive-Green SILTY CLAY
559.5	58	-	10	Hard, Gray CLAY SHALE
555.3	97/3"	-	15	Very Dense, Gray SANDSTONE And CLAY SHALE
553.0				Hard, Gray SANDY SHALE (Fractured) RC REC: 46.7% ROD: 0.0%
				RC REC: 93.3% ROD: 55.0%
546.0	13.1			Hard, Gray SHALE
543.3				EXPLORATORY BORING DISCONTINUED

LEGEND

- N Standard Penetration Test N (blows/ft)
- Qu Unconfined Strength (tsf)
- RC Rock Core
- w% Natural Moisture Content (%)
- DD Water Surface Elevation Encountered in Boring
- DD - during drilling
- Oh - upon completion

Notes:

1. All boring elevations have been adjusted to the current vertical datum.
2. Borings B-1, B-2, and B-3 were drilled March 17 & 18, 2010.
3. Borings B-4 and B-5 were drilled May 9 & 10, 2013.

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PLOT SCALE =	DRAWN - GAP	REVISED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSURFACE DATA PROFILE (Sheet 2 of 2)
STRUCTURE NO. 072-3150**

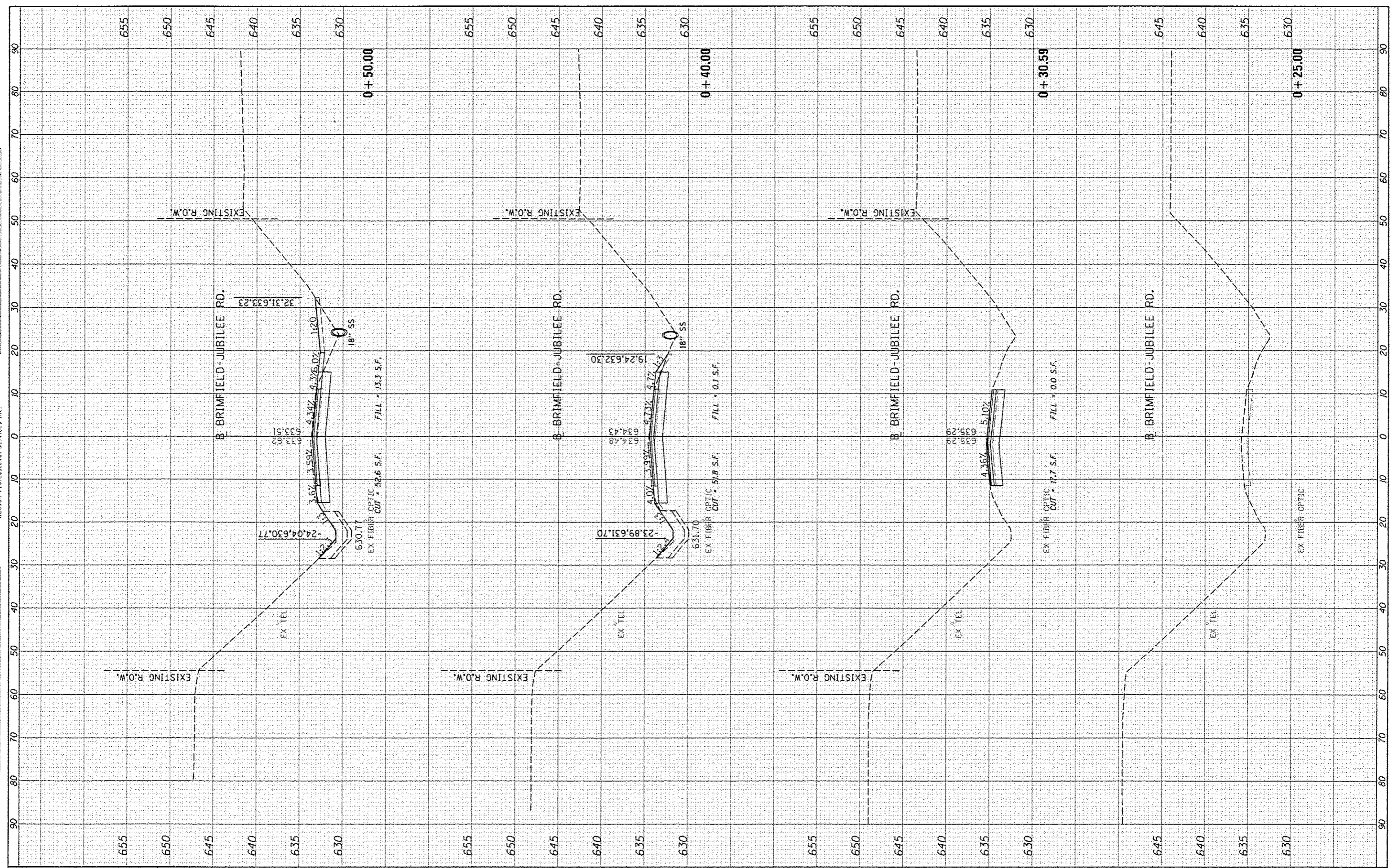
SHEET NO. 26 OF 26 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 029	12-00113-03-BR	PEORIA	62	49
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT	

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



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 DATE - 10/15/2013

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 NO. DATE BY

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 DEPARTMENT OF TRANSPORTATION

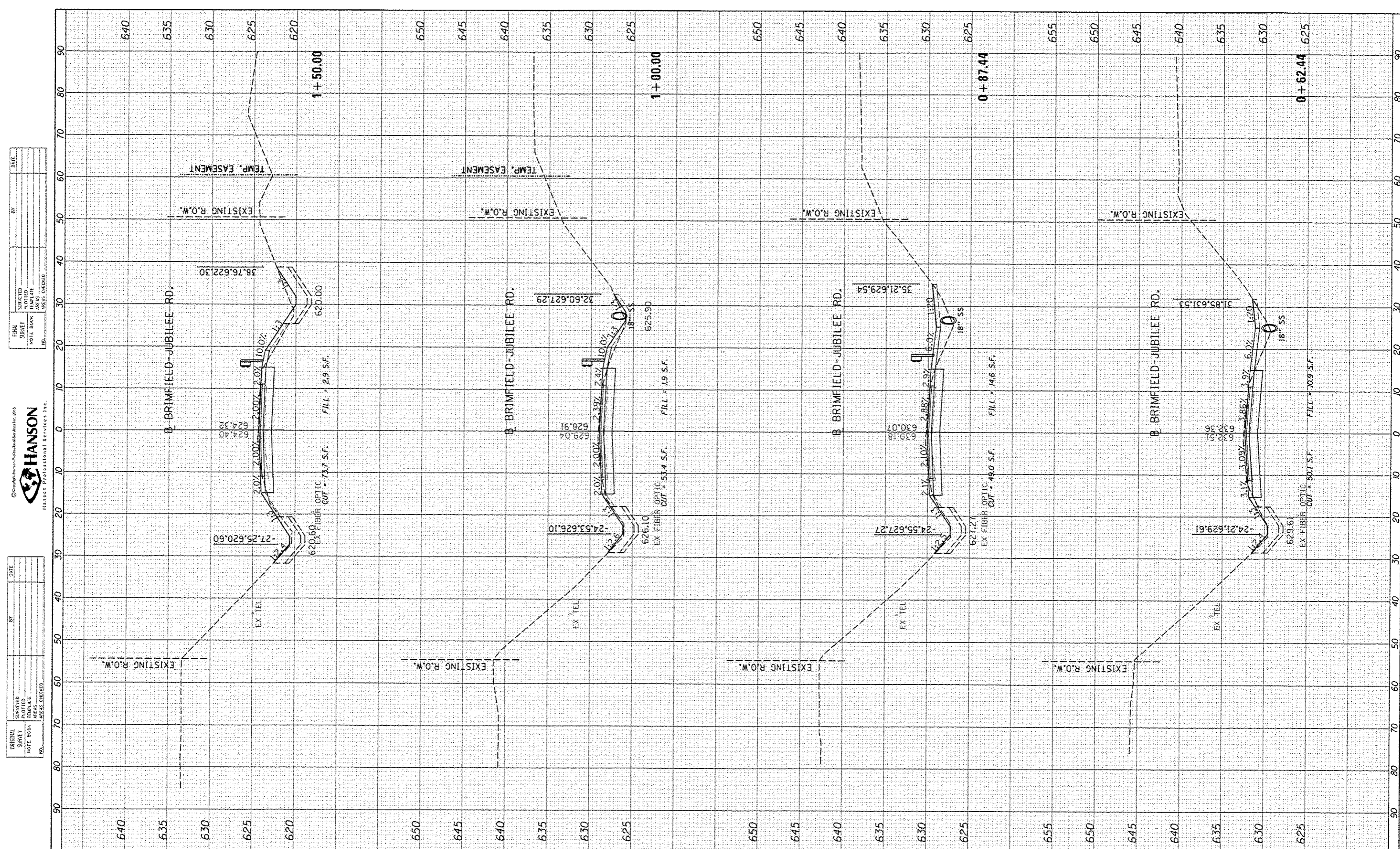
BRIMFIELD-JUBILEE ROAD
 CROSS SECTIONS
 SCALE: 1"=10'
 SHEET OF SHEETS STA. +25.00 TO STA. +50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH29	12-00113-03-BR	FEORIA	62	50
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT 8905-0143(05)	

FINAL SURVEY	DATE
NOTED	BY
NOTED	BY
NOTED	BY
NOTED	BY



ORIGINAL SURVEY	DATE
NOTED	BY
NOTED	BY
NOTED	BY
NOTED	BY



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PLOT SCALE * 20,0000 / in.	PLOT DATE * 10/16/2013

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DATE - 10/15/2013	REVISED -

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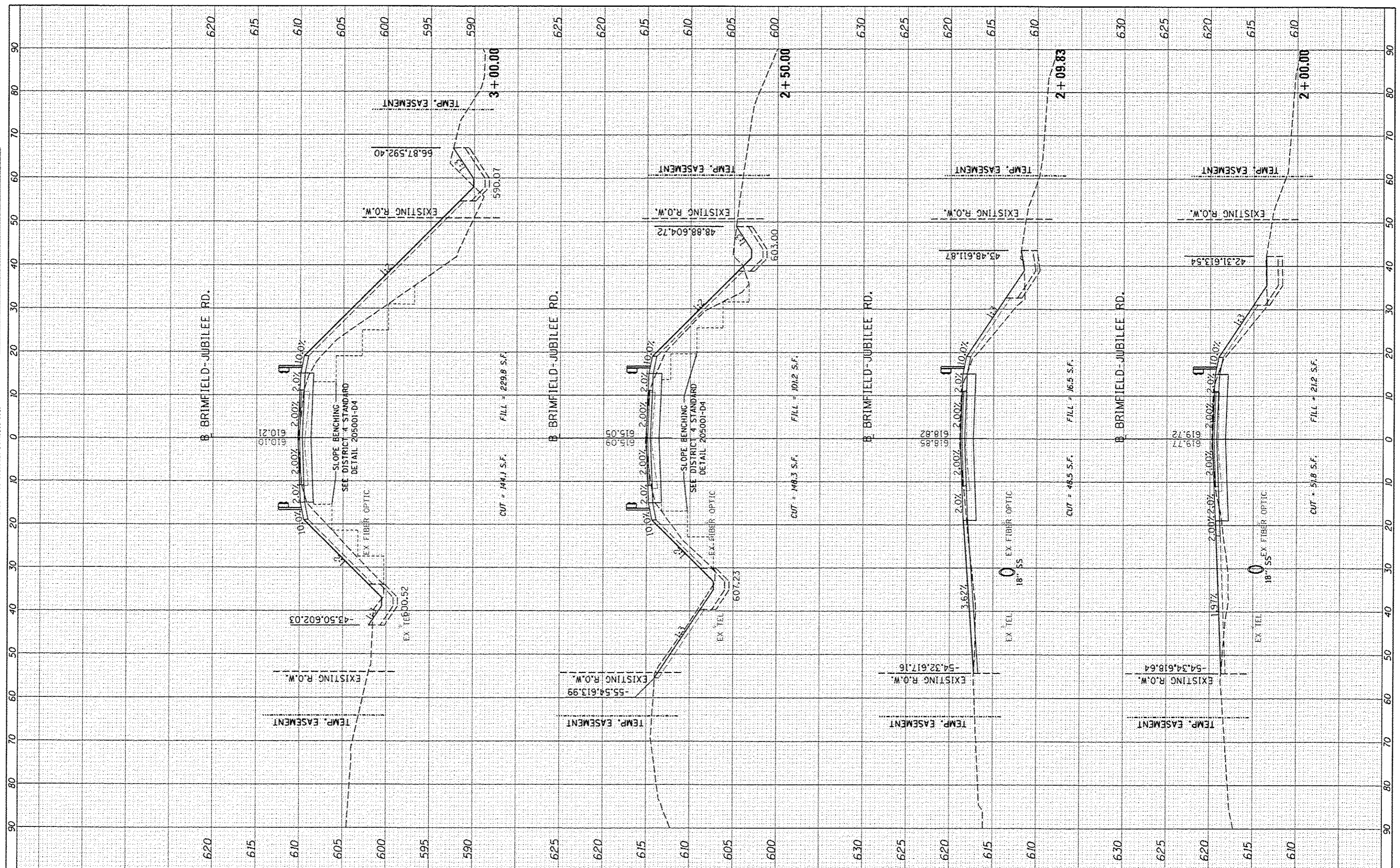
BRIMFIELD-JUBILEE ROAD
CROSS SECTIONS
SCALE: 1"=10'
SHEET OF SHEETS
STA. +62.44 TO STA. 1+50.00

F.A. RTE. CH029	SECTION 12-00113-03-BR	COUNTY PEORIA	TOTAL SHEETS 62	SHEET NO. 51
CONTRACT NO. 89642			ILLINOIS FED. AID PROJECT BR05-0143(065)	

DATE	
BY	
NO.	
AREAS CHECKED	
TEMP. EASEMENT	
EXISTING R.O.W.	
NOTE BOOK	
NO.	
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TEMP. EASEMENT	
EXISTING R.O.W.	
NOTE BOOK	
NO.	
AREAS CHECKED	

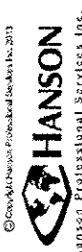


DATE	
BY	
NO.	
AREAS CHECKED	
TEMP. EASEMENT	
EXISTING R.O.W.	
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AREAS CHECKED	

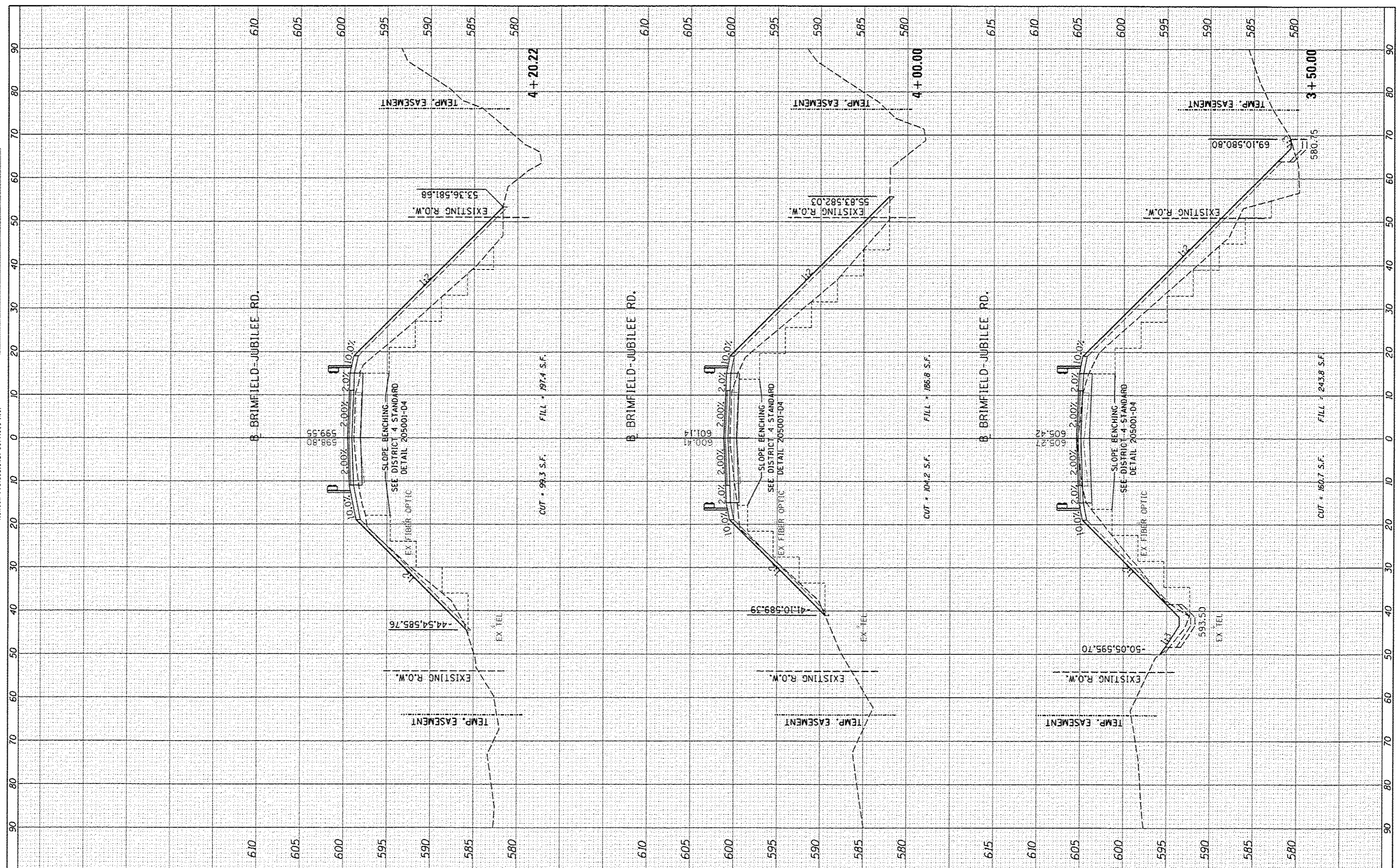


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PLOT SCALE * 20,0000 / in.	CHECKED - CAL	REVISOR -	DATE - 10/15/2013		SCALE: 1"=10'	SHEET OF SHEETS	STA. 2+00.00 TO STA. 3+00.00	CONTRACT NO. 89642		ILLINOIS FED. AID PROJECT BR05-0143055		
PLOT DATE * 10/16/2013	DATE - 10/15/2013	REVISOR -	REVISOR -									

FINAL SURVEY	BY	DATE
NOTED SURVEY		
NOTED BOOK		
NOTED AREAS		
NOTED AREAS CHECKED		



ORIGINAL SURVEY	BY	DATE
NOTED SURVEY		
NOTED BOOK		
NOTED AREAS		
NOTED AREAS CHECKED		



FILE NAME	USER NAME
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DESIGNED	DRAWN	CHECKED	DATE
MCD	MCD	CAL	10/15/2013

REVISED	REVISED	REVISED	REVISED
-	-	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
CROSS SECTIONS
SCALE: 1"=10'
SHEET OF SHEETS
STA. 3+50.00 TO STA. 4+20.22

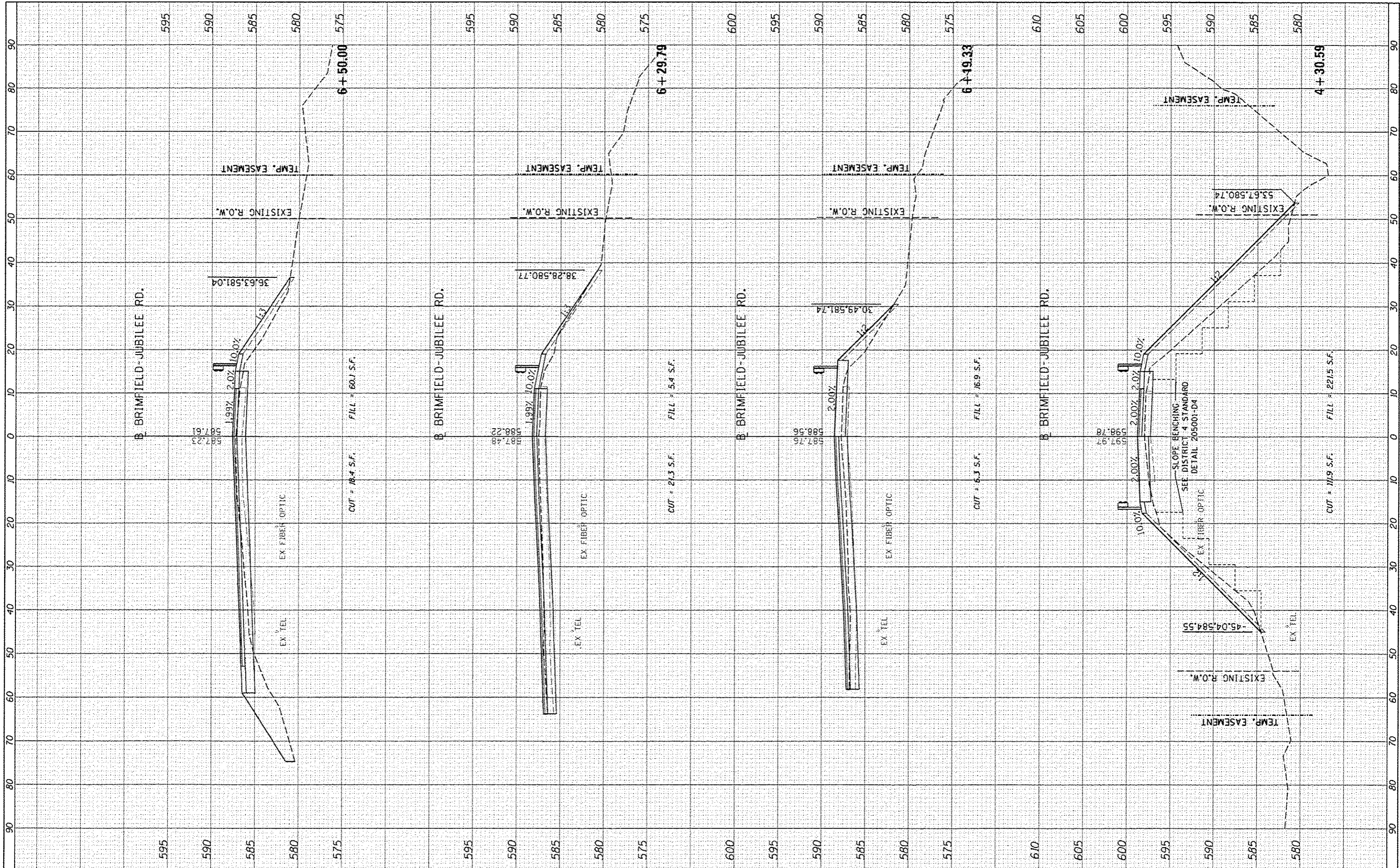
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CH029	12-00113-03-BR	PEORIA	62	53
CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT BR05-01430551				

FILE NAME	USER NAME
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PLOT SCALE	PLOT DATE
20.0000 / 1 in.	10/15/2013

FINAL SURVEY	DATE
SYNOPSIS	
PLOTTED	
NOTE BOOK	
ASLS CHECKED	
NO.	



ORIGINAL SURVEY	DATE
SYNOPSIS	
PLOTTED	
NOTE BOOK	
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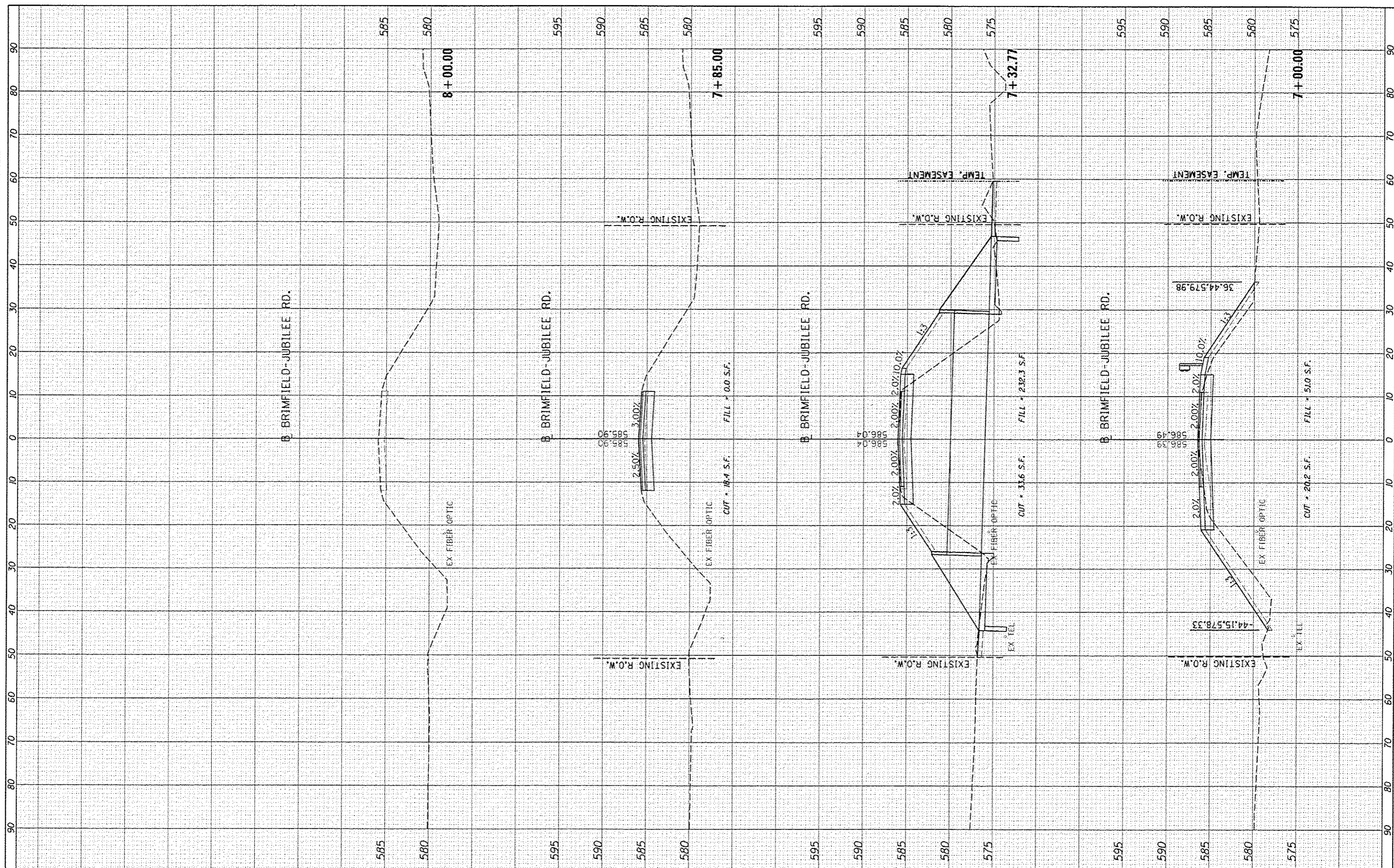


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Default	PLOT DATE = 10/16/2013	CHECKED - CAL	REVISED -			SCALE: 1"=10'		SHEET OF SHEETS		CONTRACT NO. 89642
		DATE - 10/15/2013	REVISED -			STA. 4+30.59 TO STA. 6+50.00		ILLINOIS FED. AID PROJECT BR05-014310551		

NO.	DATE
NO.	DATE
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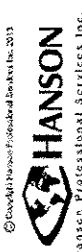
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIMFIELD-JUBILEE ROAD
CROSS SECTIONS

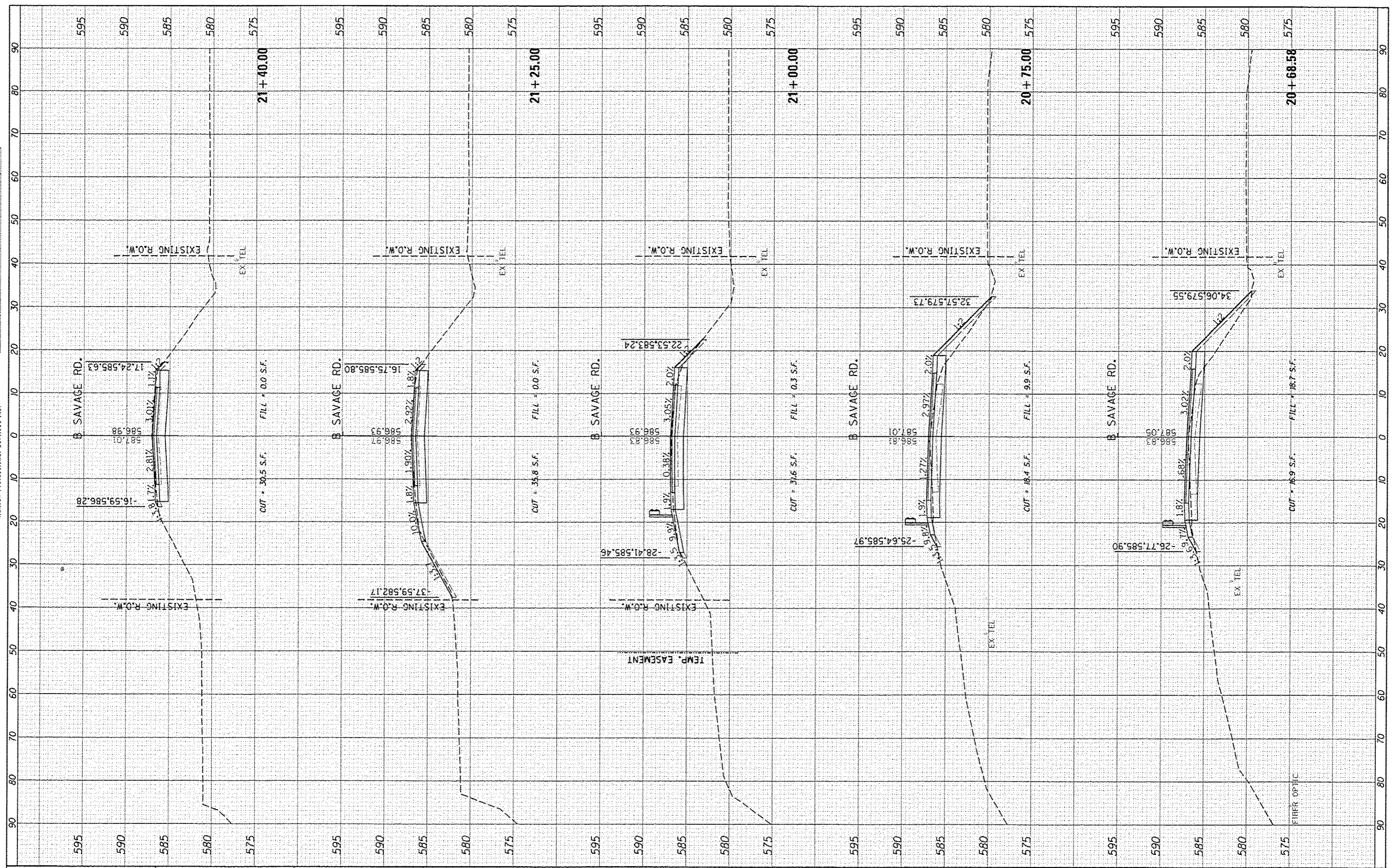
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	55
			CONTRACT NO. 89642	
ILLINOIS FED. AID PROJECT 8R03-0143(055)				

STARTED	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	



STARTED	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
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REVISIONS	
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FILE NAME *
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 PLOT SCALE * 20.0000 / in.
 PLOT DATE * 10/16/2013

DESIGNED - MGD
 DRAWN - MGD
 CHECKED - CAL
 DATE - 10/15/2013

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

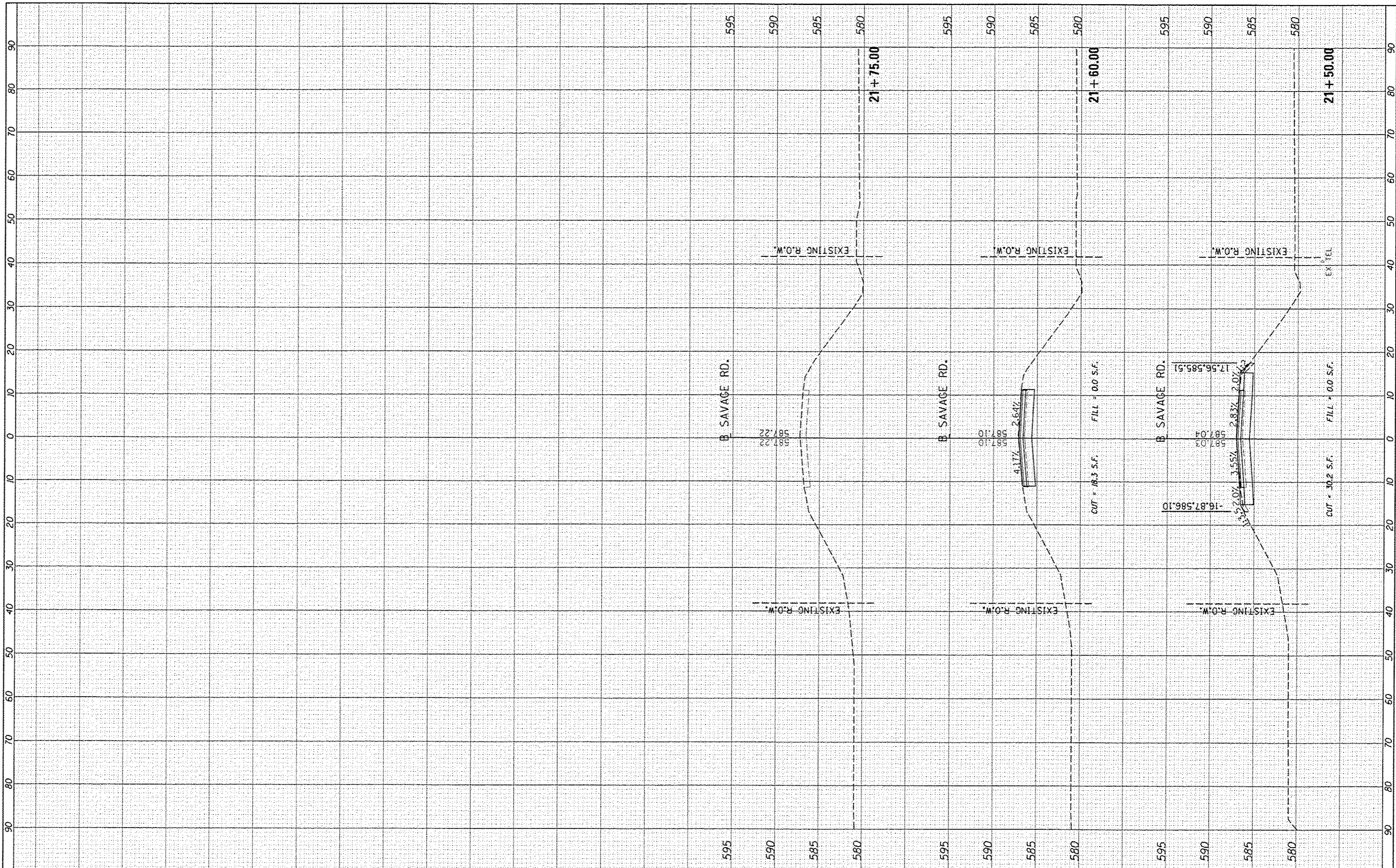
**SAVAGE ROAD
 CROSS SECTIONS**

SCALE: 1"=10'
 SHEET OF SHEETS STA. 20+68.58 TO STA. 21+40.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-0D113-03-BR	PEORIA	62	56
CONTRACT NO. 89642				
ILLINOIS FED. AID PROJECT BROS-01430551				

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

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



FILE NAME *
 USER NAME * dawso00078
 DESIGNED - MCD
 DRAWN - MCD
 CHECKED - CAL
 DATE - 10/15/2013

REVISIONS
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

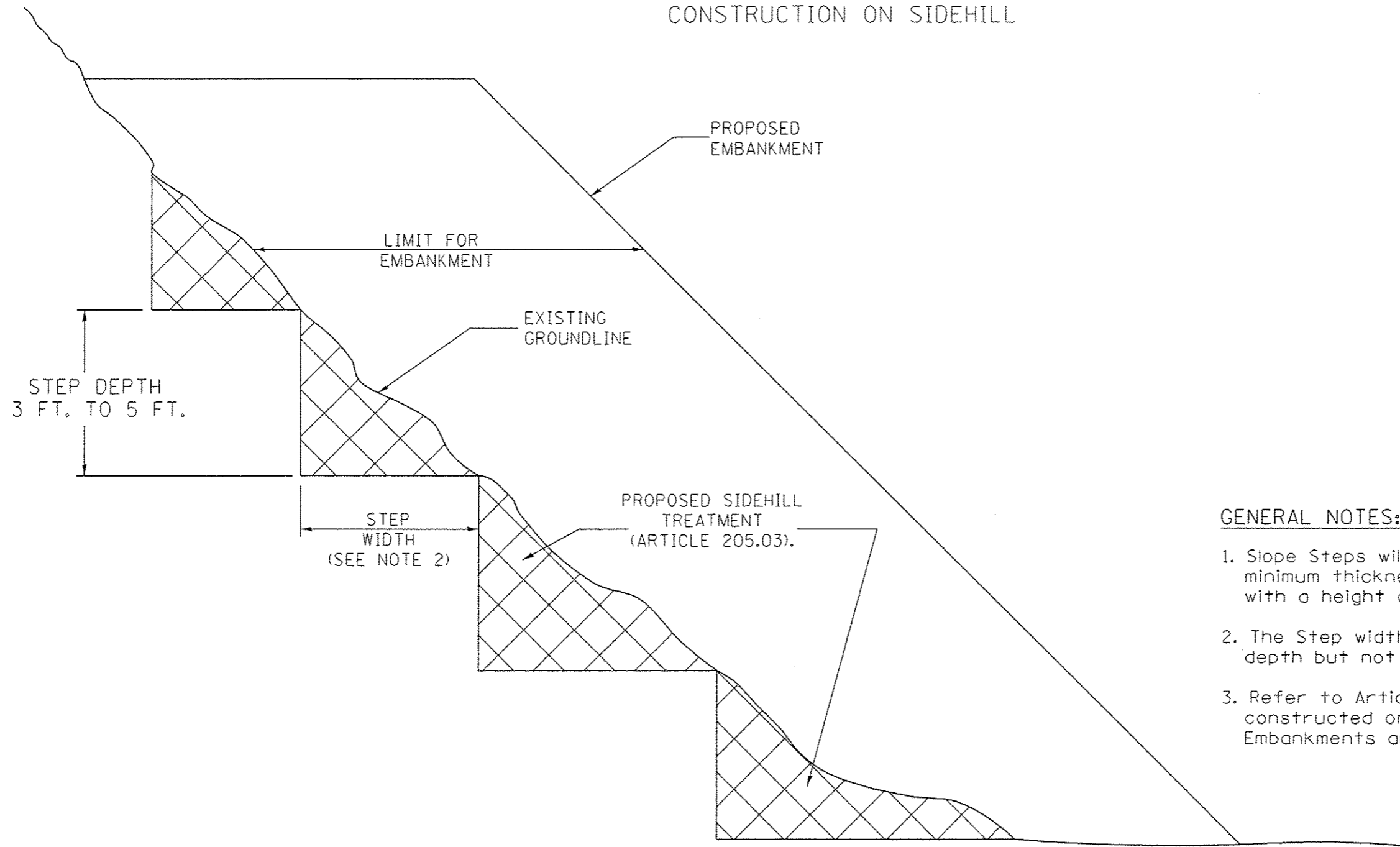
SAVAGE ROAD
 CROSS SECTIONS

SCALE: 1"=10'
 SHEET OF SHEETS
 STA. 21+50.00 TO STA. 21+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH029	12-00113-03-BR	PEORIA	62	57
ILLINOIS FED. AID PROJECT			BR05-0143055	

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on a fills with a height of 10'(3.0m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

DESIGNER NOTE:

1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

All dimensions are in inches (millimeters) unless otherwise noted.

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE STEPS DETAIL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-16-06	REVISED TO 2007 SPEC.	M.A.					CH029	12-00113-03-BR	PEORIA	62	58
							CONTRACT NO. 89642		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BR05-01430551		

NOT TO SCALE

CADD STD. 205001-D4

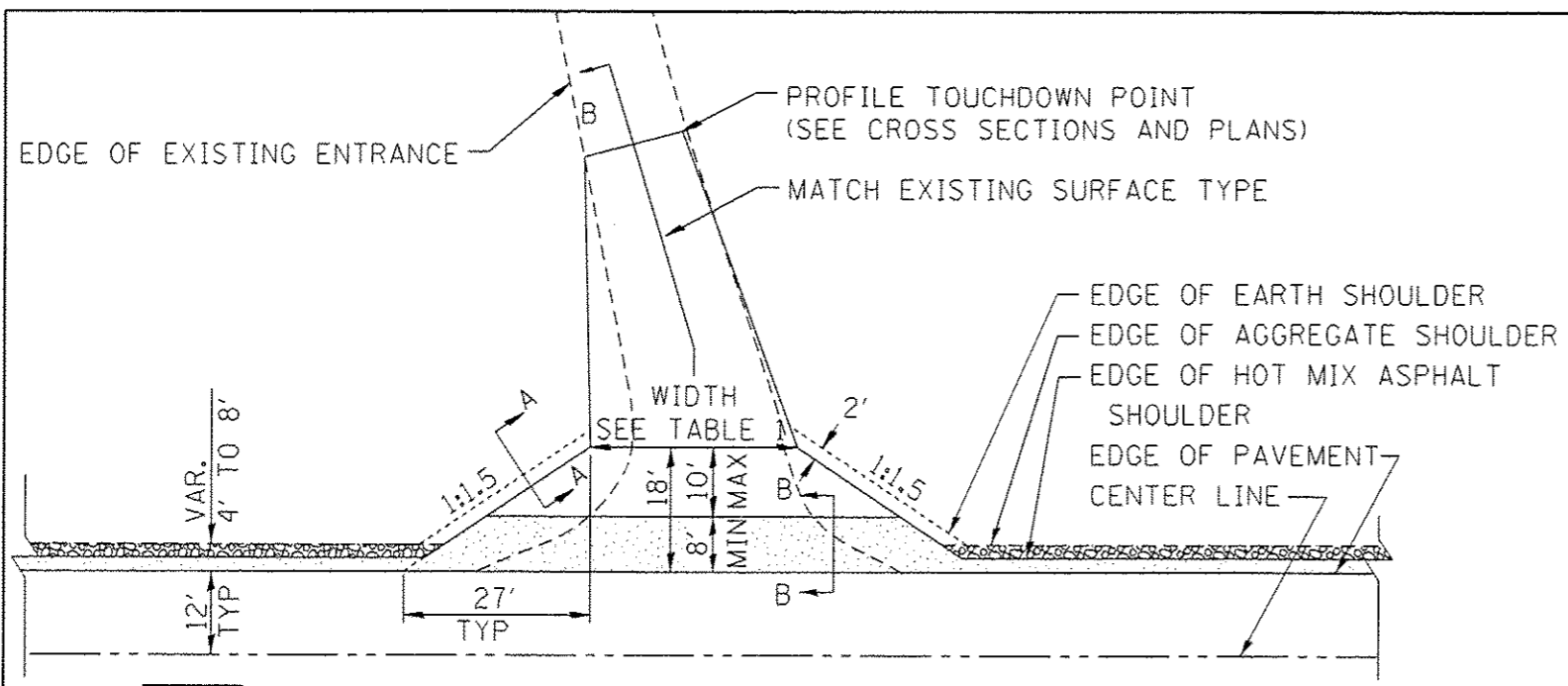
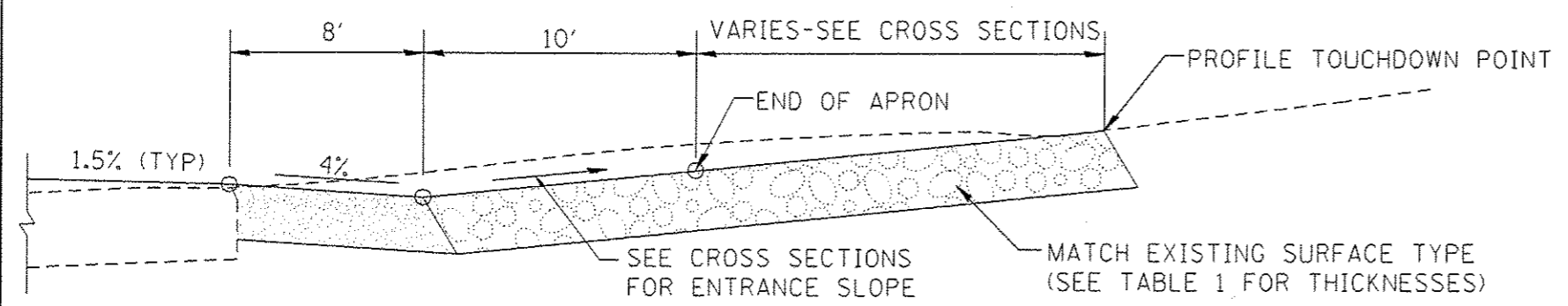
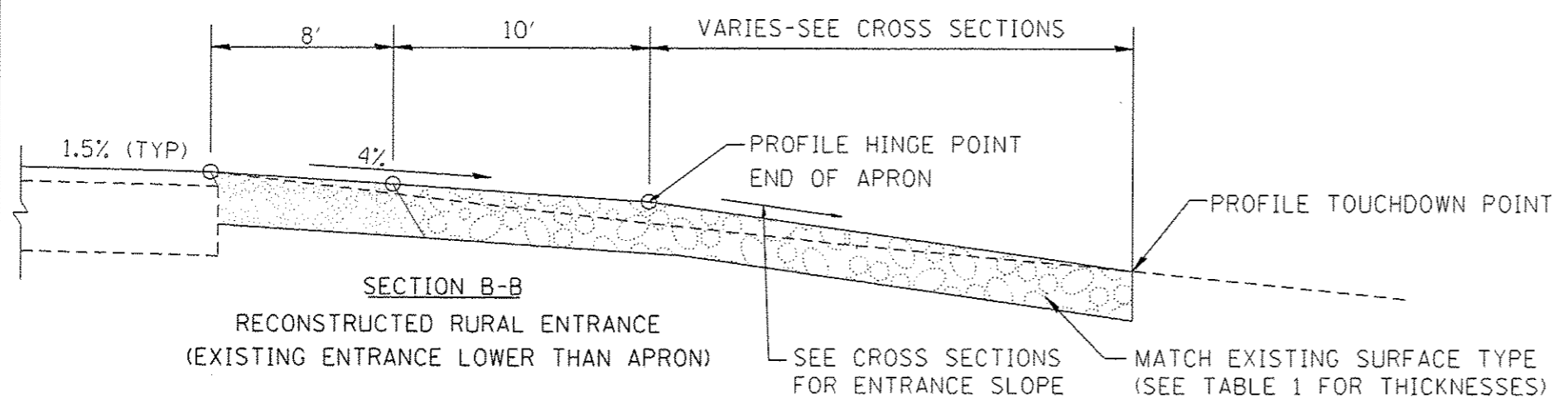


TABLE 1					
RURAL ENTRANCE DESIGN					
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL	
				1-WAY OPERATION	2-WAY OPERATION
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Max.	14'(4.3m) Min.	24'(7.2m) Max.
FLARE			30' (9.0m)Max.	24'(7.2m) Min.	35'(10.7m) Max.
MAX. GRADE (G)	12%		12%	10%	
SURFACE TYPE					
INCIDENTAL HOT MIX ASPHALT SURFACING	6"		—	8"	
AGGREGATE SURFACE COURSE	6"		8"	8"	
PCC DRIVEWAY PAVEMENT	6"		—	7"	

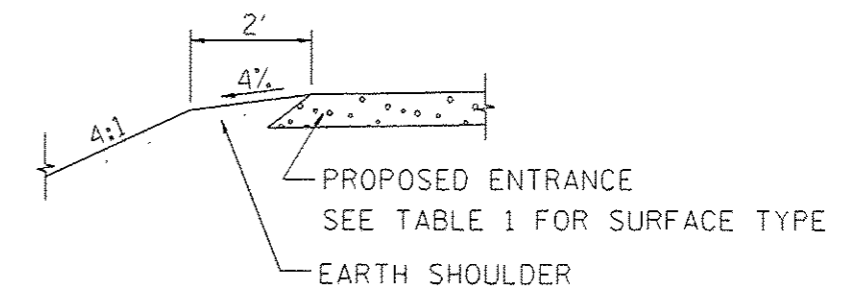
PLAN
COMMERCIAL / FARM-RELATED ENTRANCE



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE LOWER THAN APRON)



SECTION A-A
SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.			
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR			
09-15-05	RADIUS FOR FLARE	M.M.A.			

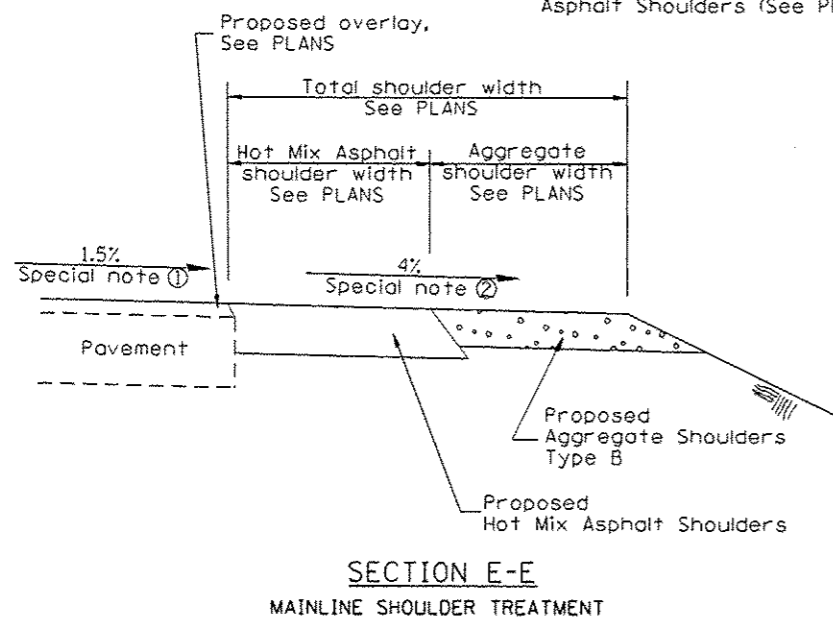
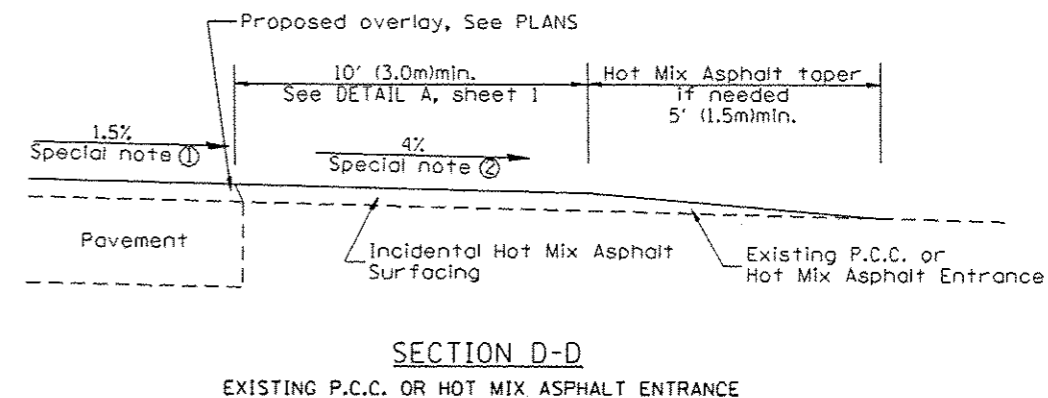
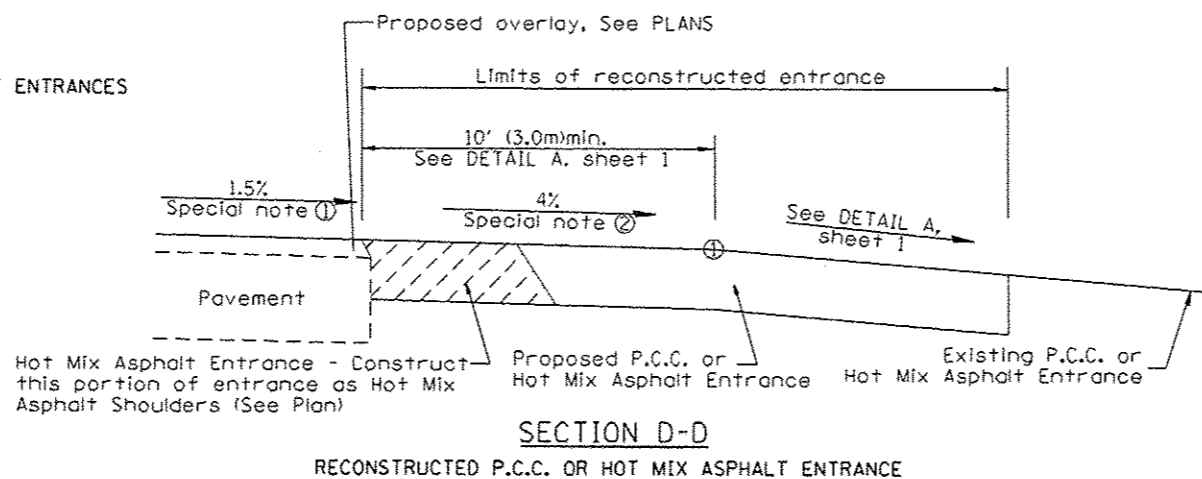
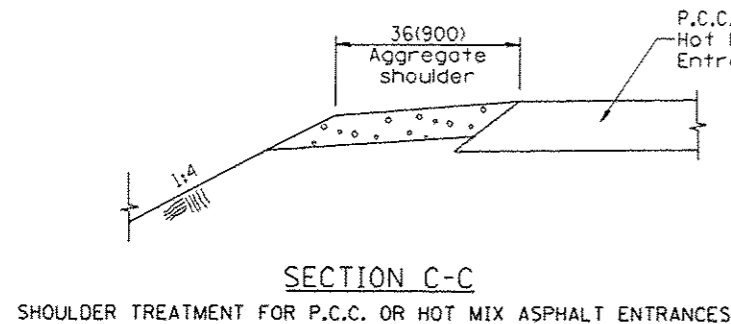
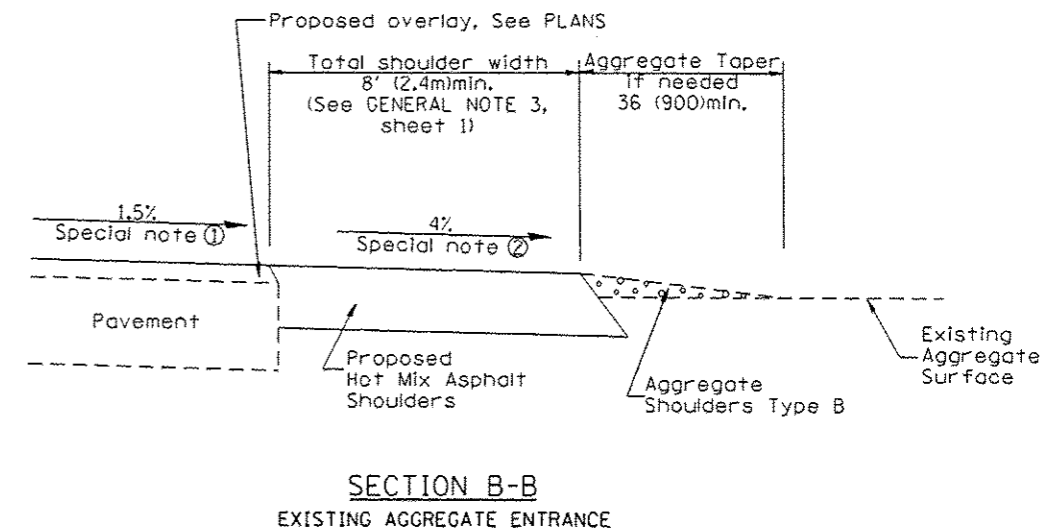
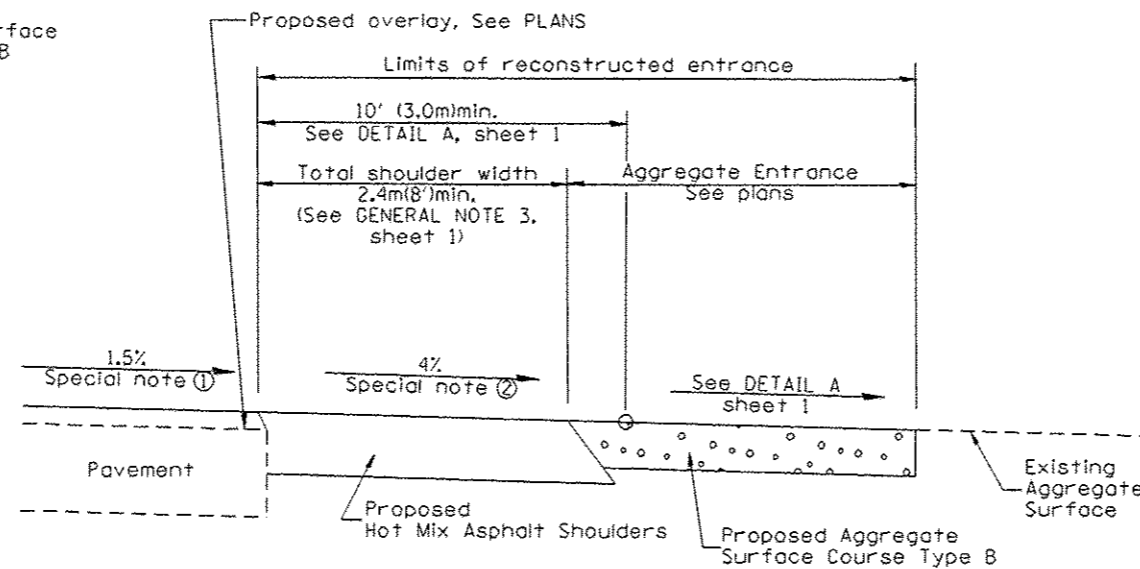
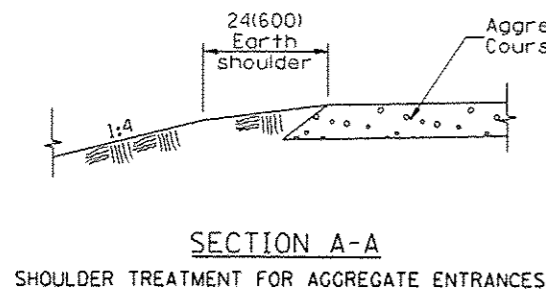
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL ENTRANCES FOR "3R" PROJECTS

NOT TO SCALE

SHT. 1 OF 2
CADD STD. 406301-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	59
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 89642		
		8905-01430551		



SPECIAL NOTES

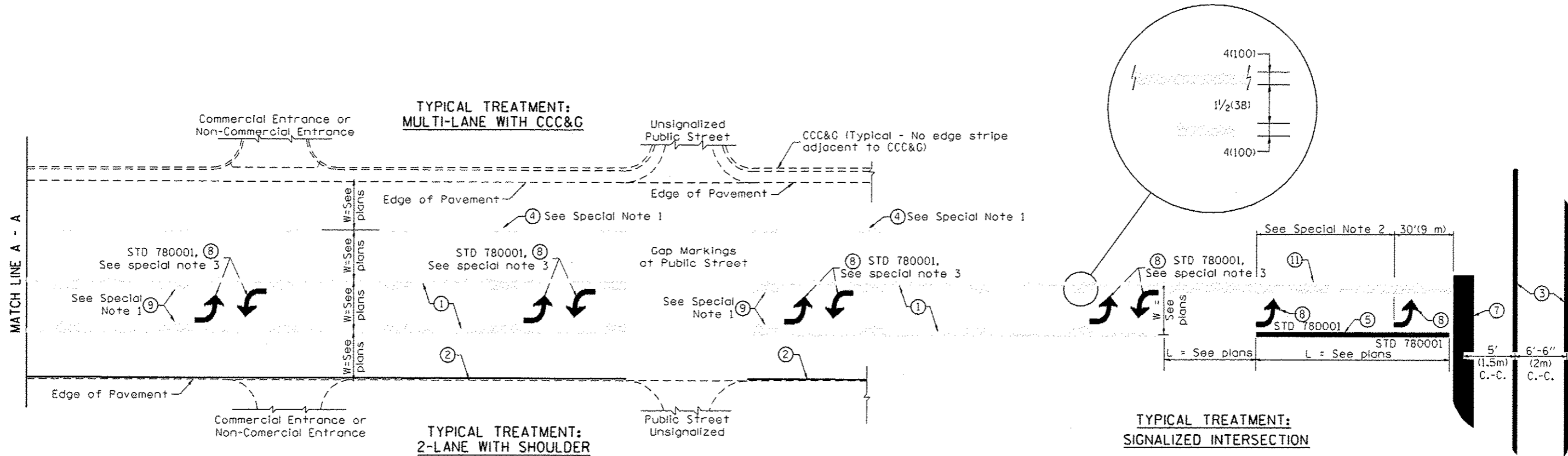
- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

All dimensions are in inches (millimeters) unless otherwise noted.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHD29	12-00113-03-BR	PEORIA	62	60
CONTRACT NO. 89642				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	BR95-0143(055)		

DESIGNER NOTES:

1. Include State Standard 780001 (Typical Pavement Markings)



FLUSH PAVED MEDIAN; TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows is 80' (24 m).
 - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
 - A. A minimum of two (2) arrow pairs is required.
 - B. The maximum spacing between arrow pairs is 200' (61 m).
 - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
 - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.		
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.		
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

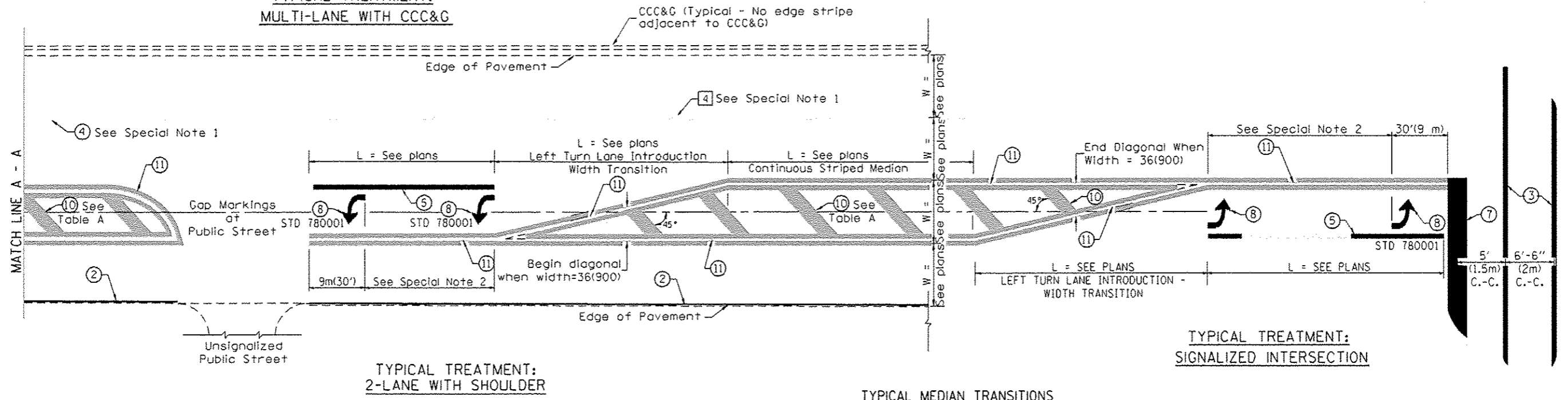
TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 1 OF 2
CADD STD. 780001-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH029	12-00113-03-BR	PEORIA	62	61
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 89642	
			BROS-01430551	

**TYPICAL TREATMENT:
MULTI-LANE WITH CCC&G**



**TYPICAL TREATMENT:
2-LANE WITH SHOULDER**

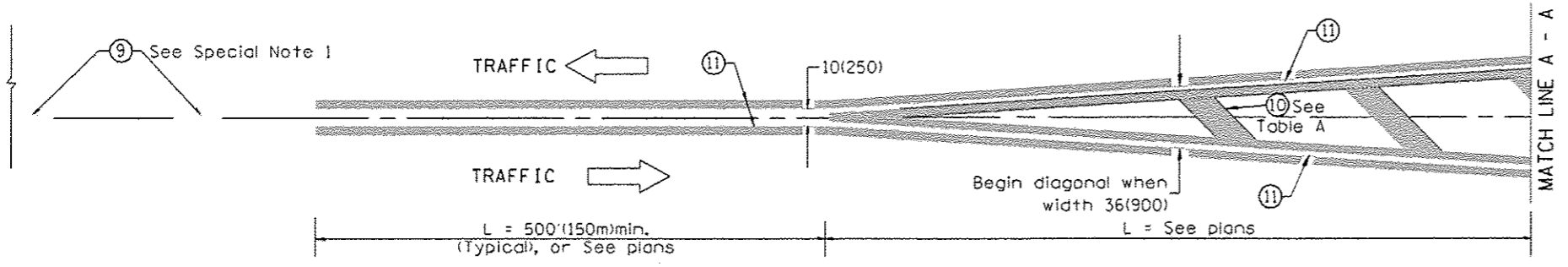
TYPICAL MEDIAN TRANSITIONS

FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

All dimensions are in inches (millimeters) unless otherwise noted.