

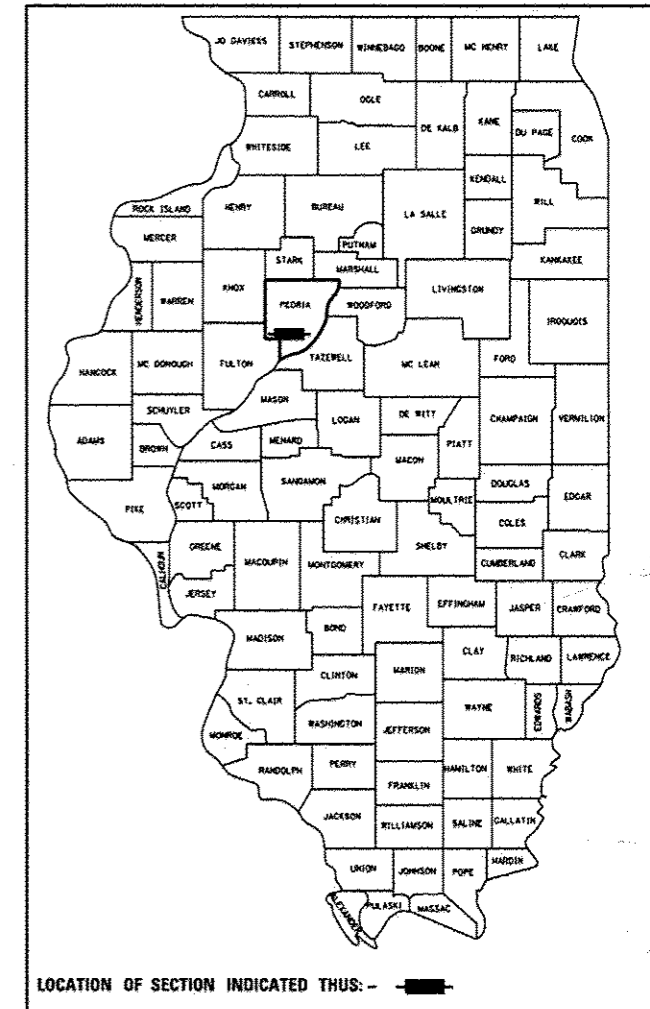
1-18-13 LETTING ITEM 135

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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

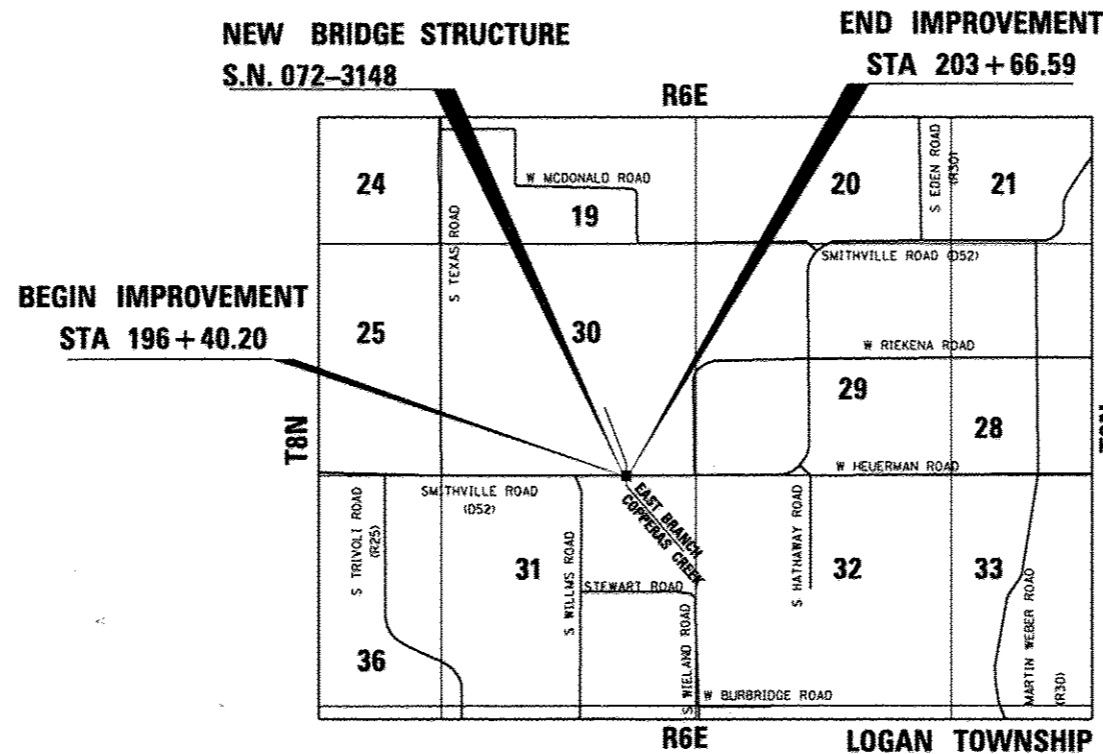
FAS ROUTE 1381 (WEST SMITHVILLE ROAD
 OVER EAST BRANCH OF COPPERAS CREEK)
 PROPOSED STRUCTURE NO. 072-3148
 SECTION 10-00005-03-BR
 PROJECT # RS-BRS1381 (106)
 PEORIA COUNTY
 JOB# C-94-043-07

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	96	1
		ILLINOIS	CONTRACT NO. 89464	



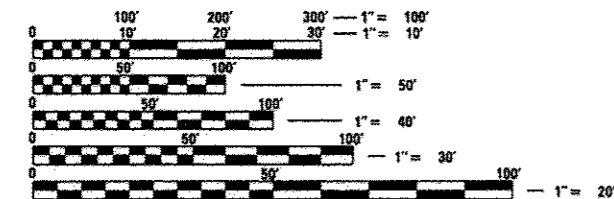
DESCRIPTION OF WORK:

THE WORK CONSISTS OF REMOVING AND REPLACING BRIDGE SUBSTRUCTURE AND SUPERSTRUCTURE, BRIDGE APPROACH SLABS, BRIDGE APPROACH HMA PAVEMENT, GUARDRAIL, HMA SHOULDERS, GRADING, SLOPE WALLS AND EROSION CONTROL.



GROSS LENGTH = 726.39 FT = 0.138 MILE
 NET LENGTH = 726.39 FT = 0.138 MILE

LOCATION MAP
 NOT TO SCALE

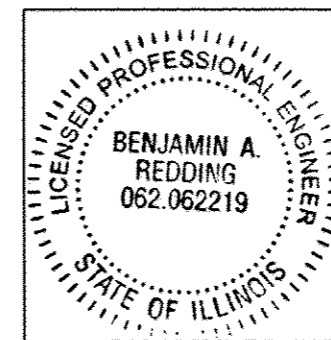


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONSULTANT NO. (312) 425-9560
 PROJECT MANAGER: BENJAMIN REDDING, P.E.

TOWNSHIP(S): LOGAN
 CONTRACT NO. 89464



DATE: 10-26-2012
 SEAL EXPIRES: 11-30-2013

FUNCTIONAL CLASSIFICATION

RURAL MAJOR COLLECTOR

2010 ADT = 750

2030 ADT = 924

P.U. = 94.7% S.U. = 4.0% M.U. = 1.3%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED 10-29-12
Amy Bernadette Nathan
 PEORIA COUNTY ENGINEER

PASSED 11/01/12
[Signature]
 DISTRICT 4 ENGINEER OF LOGAN, DECATUR AND STREETS

RELEASING FOR BID
 BASED ON LIMITED
 REVIEW 11-2-12
Joseph C. Connor
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS



INDEX OF SHEETS

SHEET

NUMBER

DESCRIPTION

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
3-7	SUMMARY OF QUANTITIES
8-9	TYPICAL SECTIONS
10-11	SCHEDULE OF QUANTITIES
12	ALIGNMENT, TIES, AND BENCHMARKS
13	REMOVAL PLAN
14-15	PLAN AND PROFILE
16	DETOUR PLAN
17	EROSION & SEDIMENT CONTROL DETAILS
18-21	RIGHT-OF-WAY SHEETS
22	PAVEMENT MARKING PLAN
23-40	STRUCTURAL SHEETS (S.N. 072-3148)
41-46	CROSS SECTIONS
46A	PERMANENT BENCH MARK
47-55	DISTRICT DETAILS

LIST OF STATE STANDARDS

STANDARD

DESCRIPTION

NUMBER

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-09	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I GUARDRAIL TERMINATORS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
665001-02	WOVEN WIRE FENCE
666001-01	RIGHT-OF-WAY MARKERS
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (2L, 2W RURAL TRAFFIC- ROAD CLOSED TO THRU TRAFFIC)

DISTRICT DETAILS

STANDARD

NUMBER

DESCRIPTION

205001-D4	SLOPE STEPS DETAIL
280001-D4	TYPICAL APPLICATION OF SILT FILTER FENCE
281001-D4	RIPRAP DITCH FOR EROSION PROTECTION
630101-D4	GUARDRAIL EROSION CONTROL TREATMENTS
635101-D4	GUARDRAIL AND BARRIER WALL DELINEATION
780001-D4	PAVEMENT MARKINGS, TYPICAL

COMMITMENTS

1. THE COUNTY SHALL NOTIFY ALL EMERGENCY, SCHOOL, AND POSTAL SERVICES OF THE ROAD CLOSURE BEFORE CONSTRUCTION.
2. ALL TREE -CLEARING WILL OCCUR BETWEEN OCTOBER 1ST AND MARCH 30TH, OUTSIDE OF THE INDIANA BAT'S MATERNITY PERIOD.
3. THE DITCH IN THE SOUTHWEST QUADRANT WILL BE CLEARED OF TRESS AND BRUSH WITHIN THE PROJECT LIMITS. IN ADDITION, A SMALL BERM WILL BE PROVIDED AT THE TOP OF THE PROPOSED DITCH BACKSLOPE TO PREVENT WATER FROM ENTERING THE ADJACENT PROPERTY OWNER'S FIELD DURING LARGE RAIN EVENTS.

GENERAL NOTES

1. MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.
2. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.
3. COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.
4. ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT -TERM CLOSURES.
5. THE CONTRACTOR WILL SUBMIT TO THE ENGINEER A SATISFACTORY PROGRESS SCHEDULE AND CRITICAL PATH SCHEDULE WHICH SHALL SHOW THE PROPOSED SEQUENCE OF WORK AT THE TIME OF THE PRE- CONSTRUCTION CONFERENCE.
6. AT LOCATIONS WHERE CLEARING IS INDICATED ON THE PLANS BEYOND THE LIMITS OF THE PROPOSED EXCAVATION OR EMBANKMENT, THE CONTRACTOR SHALL RESTORE THE DISTURBED EARTH BY BLADING AND SHAPING TO BLEND WITH THE ADJACENT GROUND. THE CLEARING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE EXCAVATION PAY ITEMS IN THE PLANS. PAYMENT FOR RESEEDING OR RESODDING WILL BE AS PROVIDED IN THE PLANS.
7. a) BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED FACILITIES. 48 HOURS NOTIFICATION IS REQUIRED.
b) THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OR HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE HERETO.
c) THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOGAN TOWNSHIP, AND PEORIA COUNTY.
8. PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUNAROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

GENERAL NOTES CONT'D.

9. PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE, THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM - D4 P10101
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 P10101.

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES

10. ALL SLOPES STEEPER THAN 3 TO 1 AND OVER 15 FT. (4.5 M) IN HEIGHT SHALL BE RIPPED. THIS SHALL CONSIST OF RIPPING BETWEEN 18 INCHES (450 MM TO 600 MM) DEEP NORMAL TO THE SLOPE. THE INTERVAL OF RIPPING ALONG THE SLOPE SHALL BE 12 FT (3.6 M). THIS WORK SHALL BE DONE AFTER THE SEED BED HAS BEEN PREPARED BUT BEFORE ANY FERTILIZER OR SEED HAS BEEN APPLIED. THE FERTILIZER AND SEED SHALL BE APPLIED WITHIN A 24-HOUR PERIOD AFTER THE RIPPING HAS BEEN DONE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS ITEMS OF SEEDING INVOLVED.
11. ADD THE FOLLOWING SENTENCE TO THE END OF PARAGRAPH 670.01(I) AND 670.04(E): ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.
12. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
13. THE BITUMINOUS MATERIAL PRIME COAT (USED ON AGGREGATE) QUANTITIES HAVE BEEN DETERMINED USING AN APPLICATION RATE OF 0.5 GAL/SY (2.0 L/M2). THE POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) (USED ON THE BINDER COURSE BETWEEN LIFTS) QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.05 GAL/SY (0.5 L/M2). SEE TABLE ON SHEET NO. 9.
14. FERTILIZER NUTRIENTS SHALL BE APPLIED AT A RATE OF 90 LBS/ACRE. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRE. MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.

INFRASTRUCTURE
 ENGINEERING | CONSULTANTS
 455 East Street, Suite 105 | Peoria, IL 61611
 TEL: 309.676.1111 | FAX: 309.676.1112



FILE NAME : #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME : IEJ	DRAWN - AJP	REVISED -		SCALE : N/A	SHEET NO. 1 OF 1 SHEETS	STA. N/A	1381	10-00005-03-BR	PEORIA	55	2
PLOT SCALE : 2.0000' / 1" =	CHECKED - BAR	REVISED -								CONTRACT NO. 89464	
PLOT DATE : 10/20/2012	DATE - 11/02/2012	REVISED -								ILLINOIS FED. AID PROJECT	

INFRASTRUCTURE
ENGINEERING



			CONSTR. CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	1.25
20200100	EARTH EXCAVATION	CU YD	2,820
20400800	FURNISHED EXCAVATION	CU YD	530
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,725
25000300	SEEDING, CLASS 3	ACRE	1.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	114
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	114
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	114
25100115	MULCH, METHOD 2	ACRE	1.25
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	6,042
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	127
28000305	TEMPORARY DITCH CHECKS	FOOT	490
28000400	PERIMETER EROSION BARRIER	FOOT	3,902
28100109	STONE RIPRAP, CLASS A5	SQ YD	2,083

* SPECIALTY ITEM

FILE NAME * #FILES*	DESIGNED - AJP	REVISED -
USER NAME * IEI	DRAWN - AJP	REVISED -
PLOT SCALE * 2.0000' / 1"	CHECKED - BAR	REVISED -
PLOT DATE * 10/25/2012	DATE - 11/02/2012	REVISED -

PEORIA COUNTY
HIGHWAY DEPARTMENT

SUMMARY OF QUANTITIES

SCALE : N/A SHEET NO. 1 OF 5 SHEETS STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	3
			CONTRACT NO. 89464	
ILLINOIS FED. AID PROJ.				

INFRASTRUCTURE
ENGINEERING ARCHITECTURE
OF Adams Street | Suite 104 | Peoria, IL 61603
Professional Engineer License No. 000000000000000000



			CONSTR. CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
28200200	FILTER FABRIC	SQ YD	2093
31101810	SUBBASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	412
31102100	SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	870
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	627
40600115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	GALLON	127
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	64
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	43
44000100	PAVEMENT REMOVAL	SQ YD	474
44004000	PAVED DITCH REMOVAL	FOOT	201
48203017	HOT-MIX ASPHALT SHOULDERS, 5"	SQ YD	870
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	77
50300225	CONCRETE STRUCTURES	CU YD	60.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	280.5

* SPECIALTY ITEM

FILE NAME * FILES*	DESIGNED - AJP	REVISED -
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PLT DATE	DATE	REVISED -

**PEORIA COUNTY
HIGHWAY DEPARTMENT**

SUMMARY OF QUANTITIES		
SCALE: N/A	SHEET NO. 2 OF 5 SHEETS	STA: N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	4
CONTRACT NO. 89464				
ILLINOIS FED. AID PROJECT				

INFRASTRUCTURE
ENGINEERING
1000 N. W. 11th St., Suite 100
Peoria, IL 61614
TEL: 309.691.1234
FAX: 309.691.1235
www.infrastructure-engineering.com



			CONSTR. CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
50300260	BRIDGE DECK GROOVING	SQ YD	677.
50300280	CONCRETE ENCASEMENT	CU YD	6.6
50300300	PROTECTIVE COAT	SQ YD	708
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	1,212
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	73,060
50800515	BAR SPLICERS	EACH	86
* 50901050	STEEL RAILING, TYPE SM	FOOT	245
51201900	FURNISHING STEEL PILES HP14X89	FOOT	366.5
51202305	DRIVING PILES	FOOT	366.5
51203900	TEST PILE STEEL HP14X89	EACH	2
51500100	NAME PLATES	EACH	1
52100520	ANCHOR BOLTS, 1"	EACH	24
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	76

* SPECIALTY ITEM

FILE NAME * #FILES*	DESIGNED - AJP	REVISED -
USER NAME * IEI	DRAWN - AJP	REVISED -
PLOT SCALE * 2.0000 "/>	CHECKED - BAR	REVISED -
PLOT DATE * 10/29/2012	DATE - 11/02/2012	REVISED -

PEORIA COUNTY
HIGHWAY DEPARTMENT

SUMMARY OF QUANTITIES

SCALE: N/A SHEET NO. 3 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	5
CONTRACT NO. 89464			ILLINOIS FED. AID PROJ.	

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
* 6300001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	450.0
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
63200310	GUARDRAIL REMOVAL	FOOT	718
* 66500105	WOVEN WIRE FENCE, 4'	FOOT	449
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	7
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	4
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6
67100100	MOBILIZATION	L SUM	1
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	675
* 78200100	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	13
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	165

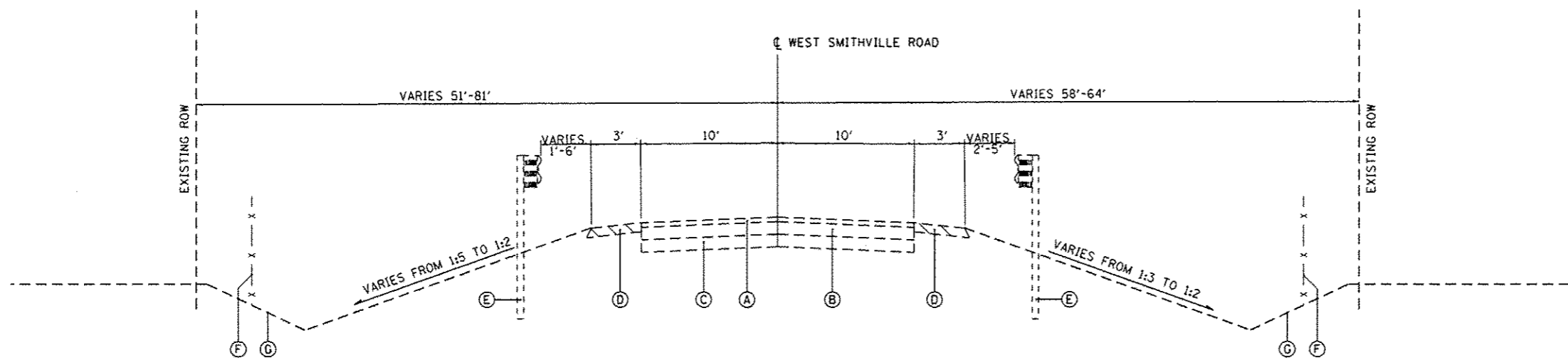
* SPECIALTY ITEM

INFRASTRUCTURE ENGINEERING
 1381
 458 Adams Street, Suite 204 | Peoria, IL 61602
 Phone: (309) 696-1111 | Fax: (309) 696-1112

FILE NAME * #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	SUMMARY OF QUANTITIES			P.A.S. RTE. 1381	SECTION 10-00005-03-BR	COUNTY PEORIA	TOTAL SHEETS 55	SHEET NO. 6
USER NAME * JCI	DRAWN - AJP	REVISED -					SCALE : N/A	SHEET NO. 4 OF 5 SHEETS	STA. N/A	CONTRACT NO. 89464	
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PLOT DATE * 10/29/2012	DATE - 11/02/2012	REVISED -									

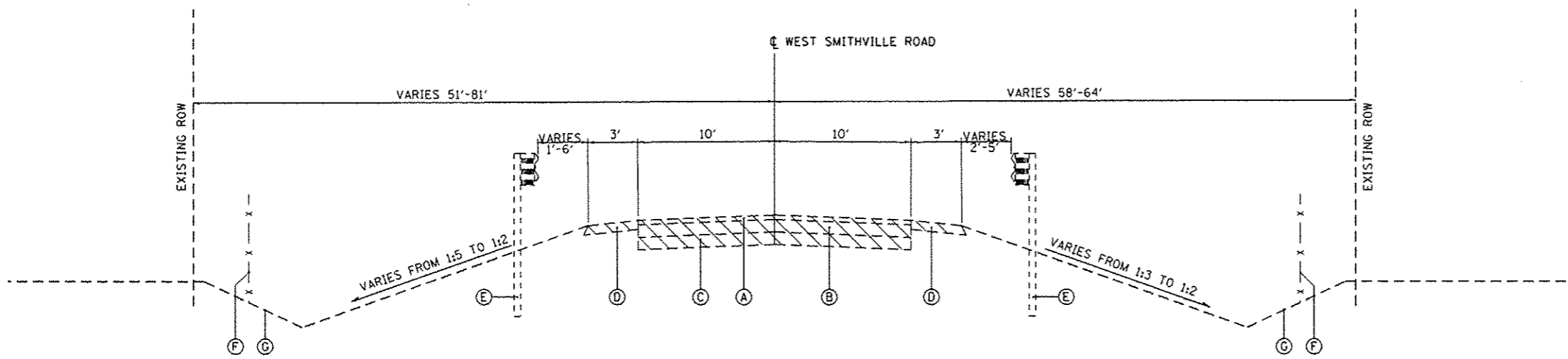
LEGEND

- (A) EXISTING OIL AND CHIP PAVEMENT, VARIABLE DEPTH
 - (B) EXISTING HMA PAVEMENT, VARIABLE DEPTH
 - (C) EXISTING SUBGRADE, VARIABLE DEPTH
 - (D) EXISTING AGGREGATE SHOULDER
 - (E) EXISTING GUARDRAIL
 - (F) EXISTING FENCE
 - (G) EXISTING GROUND
 - ① PROPOSED HMA SURFACE COURSE, MIX "C", N50, 2"
 - ② PROPOSED HMA BINDER COURSE, IL-19.0, N50, 3"
 - ③ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE C 4"
 - ④ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 12"
 - ⑤ PROPOSED HMA SHOULDERS, 5"
 - ⑥ PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 5"
 - ⑦ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - ⑧ PROPOSED WOVEN WIRE FENCE, 4"
 - ⑨ PROPOSED SEEDING, CLASS 3 AND TOPSOIL FURNISH AND PLACE, 4"
 - ⑩ STONE RIPRAP, CLASS A5
- REMOVAL ITEM



EXISTING TYPICAL ROADWAY SECTION

STA 196+40.20 TO STA 198+50.00
 STA 201+50.00 TO STA 203+66.59

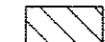


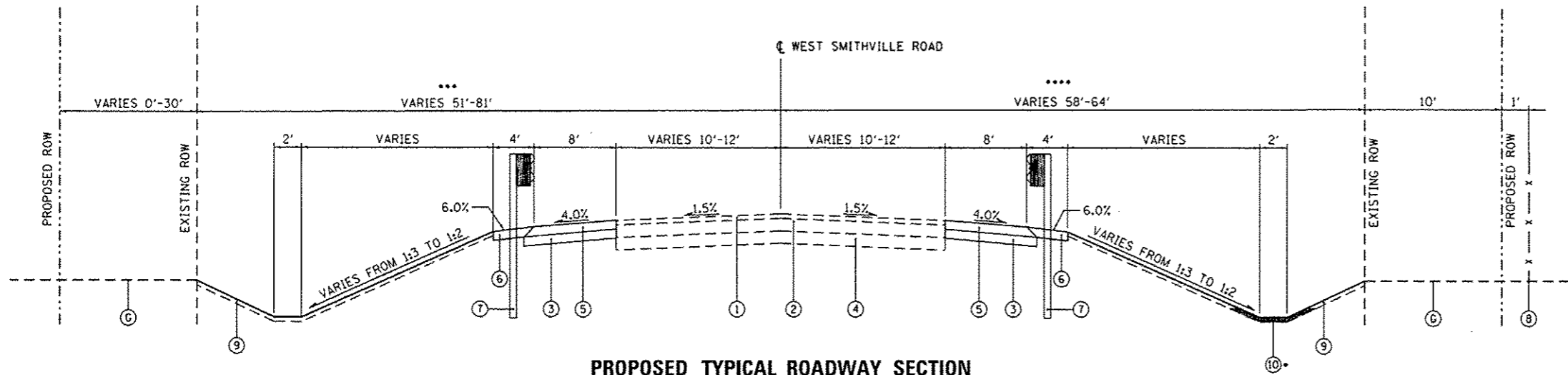
EXISTING TYPICAL ROADWAY SECTION

STA 198+50.00 TO STA 199+58.75
 STA 200+59.25 TO STA 201+50.00
 BRIDGE OMISSION STA 199+59.25 TO STA 200+58.75

FILE NAME = #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	TYPICAL SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = ICEI	DRAWN - AJP	REVISED -		SCALE: NTS	SHEET NO. 1 OF 2 SHEETS	STA N/A	1381	10-00005-03-BR	PEORIA	55	8
PLOT SCALE = 10.0000" / 1"	CHECKED - BAR	REVISED -					CONTRACT NO. 89464				
PLOT DATE = 10/20/2012	DATE - 11/02/2012	REVISED -		ILLINOIS FED. AID PROJECT							

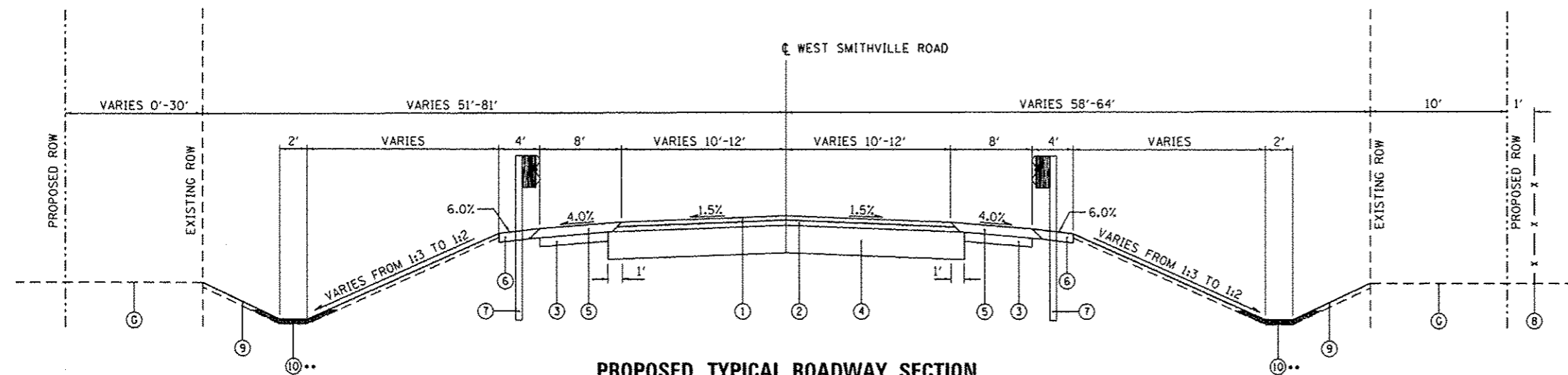
LEGEND

- (A) EXISTING OIL AND CHIP PAVEMENT, VARIABLE DEPTH
 - (B) EXISTING HMA PAVEMENT, VARIABLE DEPTH
 - (C) EXISTING SUBGRADE, VARIABLE DEPTH
 - (D) EXISTING AGGREGATE SHOULDER
 - (E) EXISTING GUARDRAIL
 - (F) EXISTING FENCE
 - (G) EXISTING GROUND
 - (1) PROPOSED HMA SURFACE COURSE, MIX "C", N50, 2"
 - (2) PROPOSED HMA BINDER COURSE, IL-19.0, N50, 3"
 - (3) PROPOSED SUBBASE GRANULAR MATERIAL, TYPE C 4"
 - (4) PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 12"
 - (5) PROPOSED HMA SHOULDERS, 5"
 - (6) PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 5"
 - (7) PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - (8) PROPOSED WOVEN WIRE FENCE, 4"
 - (9) PROPOSED SEEDING, CLASS 3 AND TOPSOIL FURNISH AND PLACE, 4"
 - (10) STONE RIPRAP, CLASS A5
-  REMOVAL ITEM



PROPOSED TYPICAL ROADWAY SECTION

STA 196+40.20 TO STA 198+50.00
STA 201+50.00 TO STA 203+66.59



PROPOSED TYPICAL ROADWAY SECTION

STA 198+50.00 TO STA 199+62.75
STA 200+55.25 TO STA 201+50.00
BRIDGE OMISSION STA 199+62.75 TO STA 200+55.25

HMA MIXTURE TABLE

	HMA BINDER AND SHOULDER LOWER LIFT	HMA SURFACE AND SHOULDER TOP LIFT
PG GRADE	PG 64-22	PG 64-22
MAX % RAP ALLOWABLE	25%	15%
DESIGN AIR VOIDS	4.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION	IL-19.0	IL-9.5
FRICTION AGGREGATE	N/A	MIXTURE "C"
DENSITY TEST METHOD	CORES OR CORRELATION	CORES OR CORRELATION

NOTES

- STONE RIPRAP, CLASS A5 FROM 196+40 TO 198+50 RT
- STONE RIPRAP, CLASS A5 FROM 198+50 TO 199+99
- NORTHSIDE IMPROVEMENT FROM 201+50 TO STA. 203+67
- SOUTHSIDE IMPROVEMENT FROM STA. 194+40 TO STA. 198+50 FROM STA. 201+50 TO STA. 203+29

POLYMERIZED 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

INDEX OF SCHEDULES

		SEE SHEET
1	EARTHWORK	10
2	PAVEMENT	10
3	SEEDING	10
4	TREE REMOVAL AND RELATED ITEMS	10
5	EROSION CONTROL	11
6	GUARDRAIL	11
7	PAVEMENT MARKING	11
8	LUMP SUM ITEMS	11

1. SCHEDULE OF EARTHWORK

FROM	TO	20200100 EARTH EXCAVATION CU YD	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE EXCESS (+) OR SHORTAGE(-) CU YD	20400800 FURNISHED EXCAVATION CU YD	21101615 TOPSOIL FURNISH AND PLACE, 4" SQ YD
SMITHVILLE ROAD							
196+40	199+48	1,936	1,452	629	822		1,570
BRIDGE CONES		18	14	313	-300		0
200+70	203+67	863	647	1,698	-1,052		3,155
TOTAL		2,820	2,112	2,641	-529	530	4,725

2. SCHEDULE OF PAVEMENT ITEMS

FROM	TO	31101810 SUBBASE GRANULAR MATERIAL, TYPE B 12" SQ YD	31102100 SUBBASE GRANULAR MATERIAL, TYPE C 4" SQ YD	40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLON	40600115 POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) GALLON	40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 TON
SMITHVILLE ROAD						
196+40.20	199+52.75	232	416	316	64	36
200+55.25	203+66.59	180	454	311	63	28
TOTAL		412	870	627	127	64

2. SCHEDULE OF PAVEMENT ITEMS

FROM	TO	40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 TON	44000100 PAVEMENT REMOVAL SQ YD	44004000 PAVED DITCH REMOVAL FOOT	48203017 HOT-MIX ASPHALT SHOULDERS, 5" SQ YD	X0322584 REVETMENT MAT REMOVAL SQ YD
SMITHVILLE ROAD						
196+40.20	199+52.75	24	258	201	416	128
200+55.25	203+66.59	19	216	0	454	0
TOTAL		43	474	201	870	128

3. SCHEDULE OF SEEDING ITEMS

FROM	TO	25000300 SEEDING, CLASS 3 ACRE	25000400 NITROGEN FERTILIZER NUTRIENT POUND	25000500 PHOSPHORUS FERTILIZER NUTRIENT POUND	25000600 POTASSIUM FERTILIZER NUTRIENT POUND	25100115 MULCH, METHOD 2 ACRE
SMITHVILLE ROAD						
196+40.20	199+52.75	0.53	49	49	49	0.53
200+55.25	203+66.59	0.72	65	65	65	0.72
TOTAL		1.25	114	114	114	1.25

4. SCHEDULE OF TREE REMOVAL

FROM	TO	20100500 TREE REMOVAL, ACRES ACRE
SMITHVILLE ROAD		
196+40.20	199+52.75	0.53
200+55.25	203+66.59	0.33
TOTAL		1.25

NOTES: SEE STRUCTURAL SHEETS 23 - 37 FOR STRUCTURAL QUANTITIES THAT ARE NOT NOTED THE SCHEDULE OF QUANTITIES.

5. SCHEDULE OF EROSION CONTROL

FROM	TO	25100635 HEAVY DUTY EROSION CONTROL BLANKET SQ YD	28000250 TEMPORARY EROSION CONTROL SEEDING POUND	28000305 TEMPORARY DITCH CHECKS FOOT	28000400 PERIMETER EROSION BARRIER FOOT	28100109 STONE RIPRAP, CLASS A5 SQ YD	28200200 FILTER FABRIC SQ YD
SMITHVILLE ROAD							
196+40.20	199+52.75	2,553	54	380	1,594	589	589
200+55.25	203+66.59	3,489	73	110	2,308	111	111
TOTAL		6,042	127	490	3,902	700	700

6. SCHEDULE OF GUARDRAIL RELATED ITEMS

FROM	TO	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS FOOT	63100045 TRAFFIC BARRIER TERMINAL, TYPE 2 EACH	63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A EACH	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT EACH	63200310 GUARDRAIL REMOVAL FOOT
SMITHVILLE ROAD						
196+40.20	199+52.75	212.5	1	2	1	316
200+55.25	203+66.59	237.5	0	2	2	402
TOTAL		450.0	1	4	3	718

6. SCHEDULE OF GUARDRAIL RELATED ITEMS

FROM	TO	66500105 WOVEN WIRE FENCE, 4' FOOT	78200100 MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR EACH	78201000 TERMINAL MARKER - DIRECT APPLIED EACH	X6330725 STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) FOOT	X6650202 WOVEN WIRE FENCE REMOVAL FOOT	Z0001002 GUARDRAIL AGGREGATE EROSION CONTROL TON
SMITHVILLE ROAD							
196+40.20	199+52.75	239	7	1	25	243	79
200+55.25	203+66.59	210	6	2	0	210	86
TOTAL		449	13	3	25	453	165

7. SCHEDULE OF PAVEMENT MARKING RELATED ITEMS

FROM	TO	66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS EACH	66700205 PERMANENT SURVEY MARKERS, TYPE I EACH	78005110 EPOXY PAVEMENT MARKING - LINE 4" FOOT
SMITHVILLE ROAD				
196+40.20	200+00.00	2	1	337
200+00.00	203+66.59	5	3	337
TOTAL		7	4	675

8. SCHEDULE OF LUMP SUM ITEMS

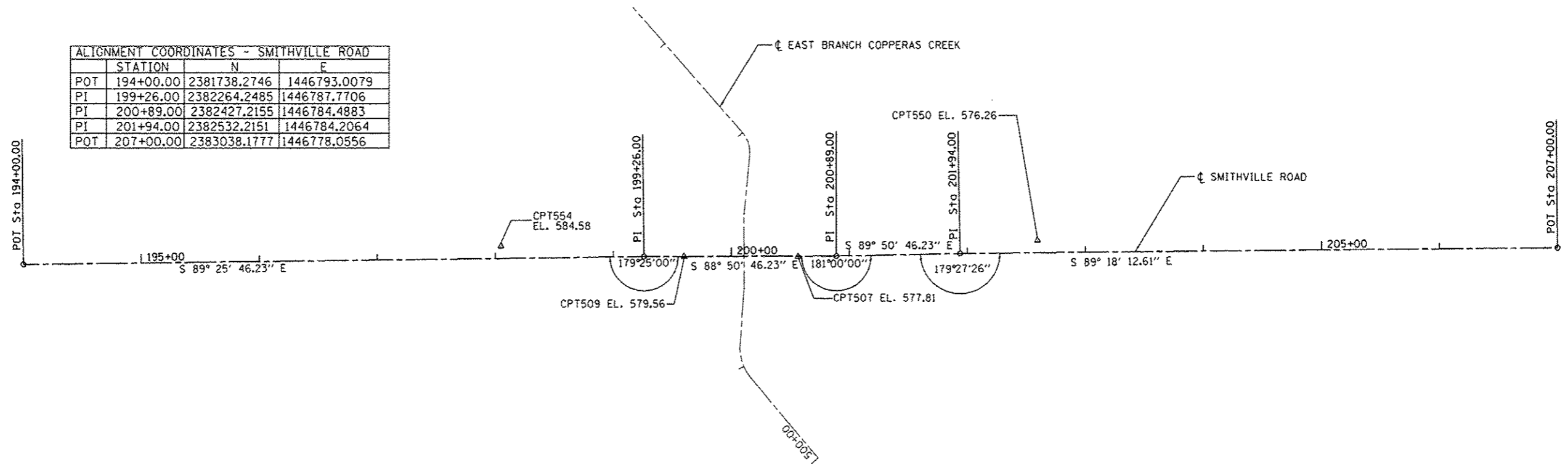
FROM	TO	67000500 ENGINEER'S FIELD OFFICE, TYPE B CAL MO	67100100 MOBILIZATION L SUM	Z0013798 CONSTRUCTION LAYOUT L SUM	X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL) L SUM
SMITHVILLE ROAD					
196+40.20	203+66.59	6	1	1	1
TOTAL		6	1	1	1

NOTES: SEE STRUCTURAL SHEETS 23 - 37 FOR STRUCTURAL QUANTITIES THAT ARE NOT NOTED THE SCHEDULE OF QUANTITIES.

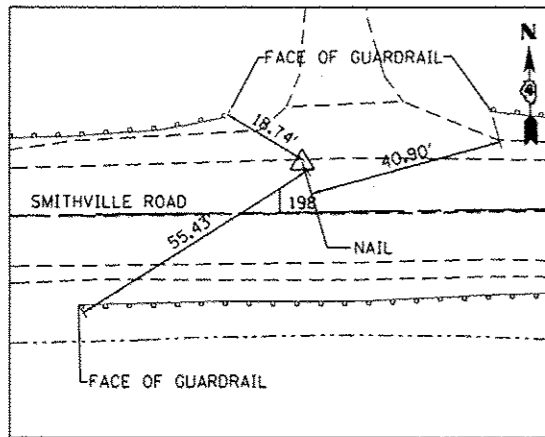
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 ENGINEERING
 485 E. State Street, Suite 101, Peoria, IL 61602
 PH: 309.696.1234 FAX: 309.696.1235

FILE NAME : #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	SCHEDULE OF QUANTITIES		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME : IEI	DRAWN - AJP	REVISED -				1381	10-00005-03-BR	PEORIA	55	11
PLOT SCALE : 2.0000 "/>	CHECKED - BAR	REVISED -		SCALE : N/A	SHEET NO. 2 OF 2 SHEETS	STA. N/A	CONTRACT NO. 89464		ILLINOIS FED. AID PROJECT	
PLOT DATE : 10/29/2012	DATE - 11/02/2012	REVISED -								

ALIGNMENT COORDINATES - SMITHVILLE ROAD			
	STATION	N	E
POT	194+00.00	2381738.2746	1446793.0079
PI	199+26.00	2382264.2485	1446787.7706
PI	200+89.00	2382427.2155	1446784.4883
PI	201+94.00	2382532.2151	1446784.2064
POT	207+00.00	2383038.1777	1446778.0556

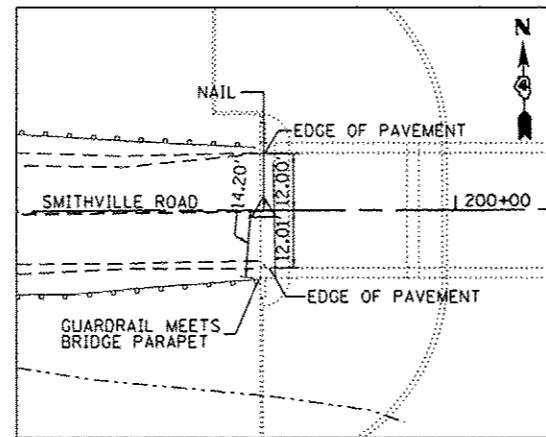


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 488 Foster Street, Suite 304 | Peoria, IL 61602
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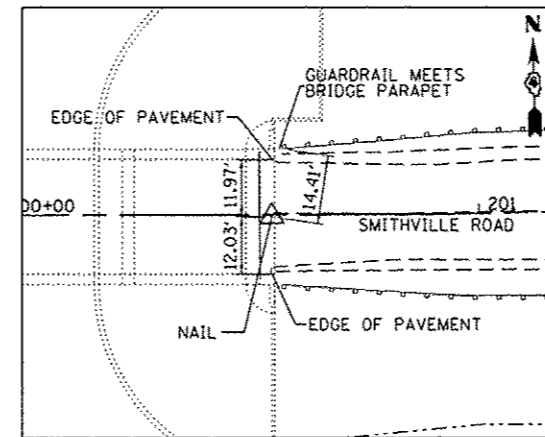
CONTROL POINT NO. 554

STA 198+05.21, 10.38' LT
 N 1446799.2740
 E 2382143.2480
 ELEV 584.58



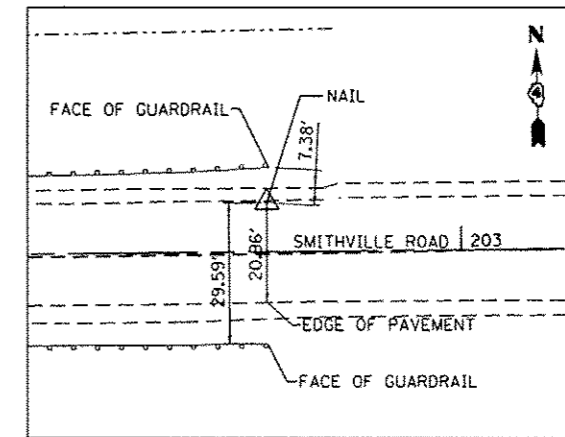
CONTROL POINT NO. 509

STA 199+60.27, 0.02 RT
 N 1446787.0670
 E 2382298.1500
 ELEV 579.56



CONTROL POINT NO. 507

STA 200+57.11, 0.39 RT
 N 1446784.7500
 E 2382394.9580
 ELEV 577.81



CONTROL POINT NO. 550

STA 202+59.89, 10.85' LT
 N 1446793.7840
 E 2382597.8910
 ELEV 576.26

THE PROPOSED BENCHMARK SHALL BE INSTALLED AT THE NORTHWEST CORNER OF THE PROPOSED BRIDGE IN ACCORDANCE WITH THE PERMANENT BENCHMARK DETAIL SHOWN ON SHEET 54. IN GENERAL, THE BENCHMARK WILL BE PLACED IN A LEVEL AREA IN THE ABUTMENT OF THE BRIDGE SO AS TO BE READILY ACCESSIBLE.

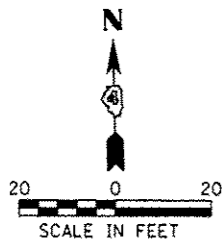
THE BENCH MARK SHALL BE PLACED UNDER THE DIRECTION OF THE ENGINEER AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER.

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 TABLET, TO BE INSTALLED AS THE BENCH MARK, SHALL BE FURNISHED BY THE PEORIA COUNTY HIGHWAY DEPARTMENT.

THE EXISTING BENCHMARK IS A 2" x 2" SQUARE CUT IN THE SOUTHEAST CORNER OF THE SOUTH HEADWALL OF A CULVERT LOCATED TO THE WEST OF THE SECOND DRIVEWAY TO THE WEST OF THE BRIDGE, AND APPROXIMATELY 75 FEET WEST OF THE DRIVEWAY CENTERLINE AND 45 FEET SOUTH OF THE SMITHVILLE ROAD CENTERLINE, EL=590.85.

FILE NAME = #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	ALIGNMENT, TIES, AND BENCHMARKS	F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME = IEI	DRAWN - AJP	REVISED -			1381	10-00005-03-BR	PEORIA	55	12	
PLOT SCALE = 2,000' / 1" =	CHECKED - BAR	REVISED -			CONTRACT NO. 89464		ILLINOIS FED. AID PROJECT			
PLOT DATE = 10/28/2012	DATE - 11/02/2012	REVISED -			SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA 194+00.00 TO STA 207+00.00			

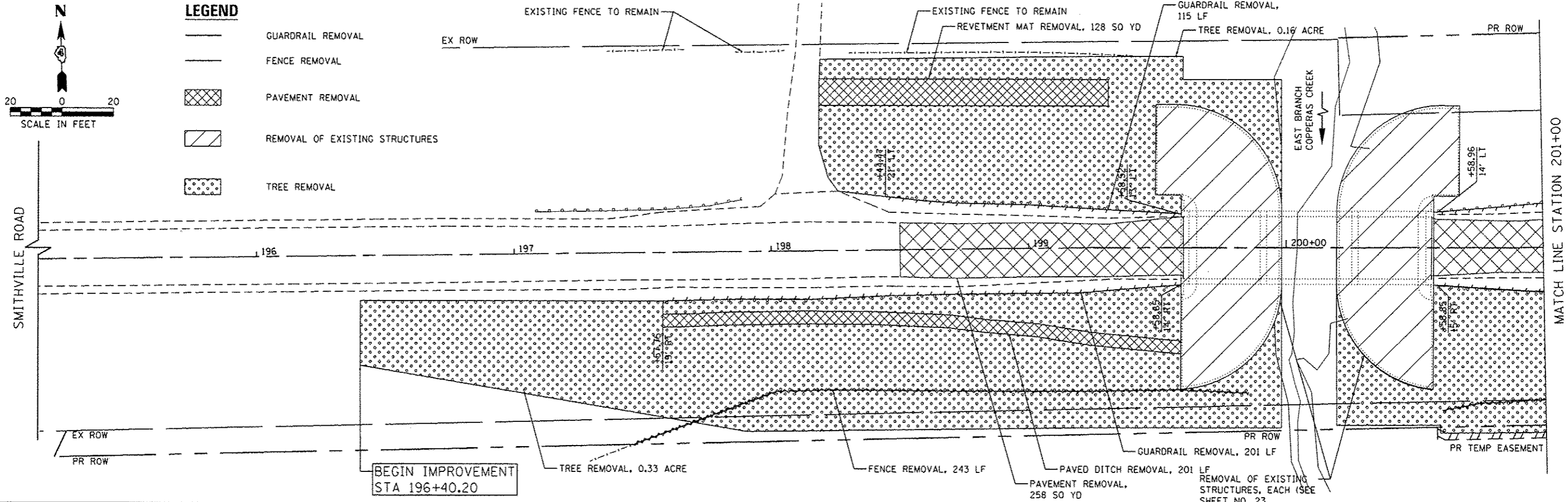


LEGEND

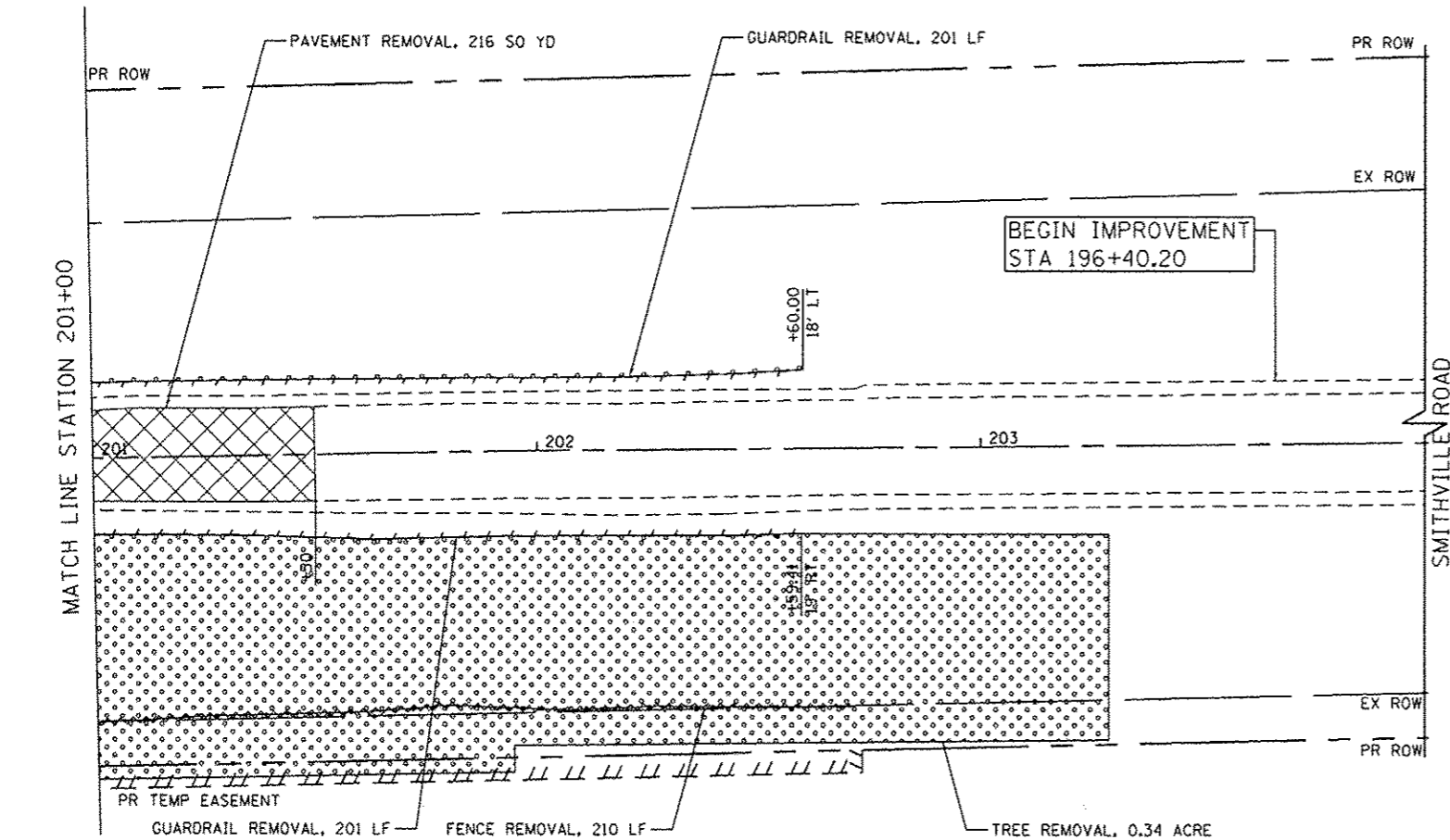
- GUARDRAIL REMOVAL
- FENCE REMOVAL
- PAVEMENT REMOVAL
- REMOVAL OF EXISTING STRUCTURES
- TREE REMOVAL

SMITHVILLE ROAD

MATCH LINE STATION 201+00



INFRASTRUCTURE ENGINEERING
 458 East Street, Suite 201, Peoria, IL 61602
 TEL: 309.691.1234 FAX: 309.691.1235
 WWW: WWW.IEENGINEERING.COM



FILE NAME = #FILES#	DESIGNED - AJP	REVISED -
USER NAME = IEI	DRAWN - AJP	REVISED -
PLOT SCALE = 48.0000 "/>	CHECKED - BAR	REVISED -
PLOT DATE = 10/24/2012	DATE - 11/02/2012	REVISED -

**PEORIA COUNTY
HIGHWAY DEPARTMENT**

REMOVAL PLAN

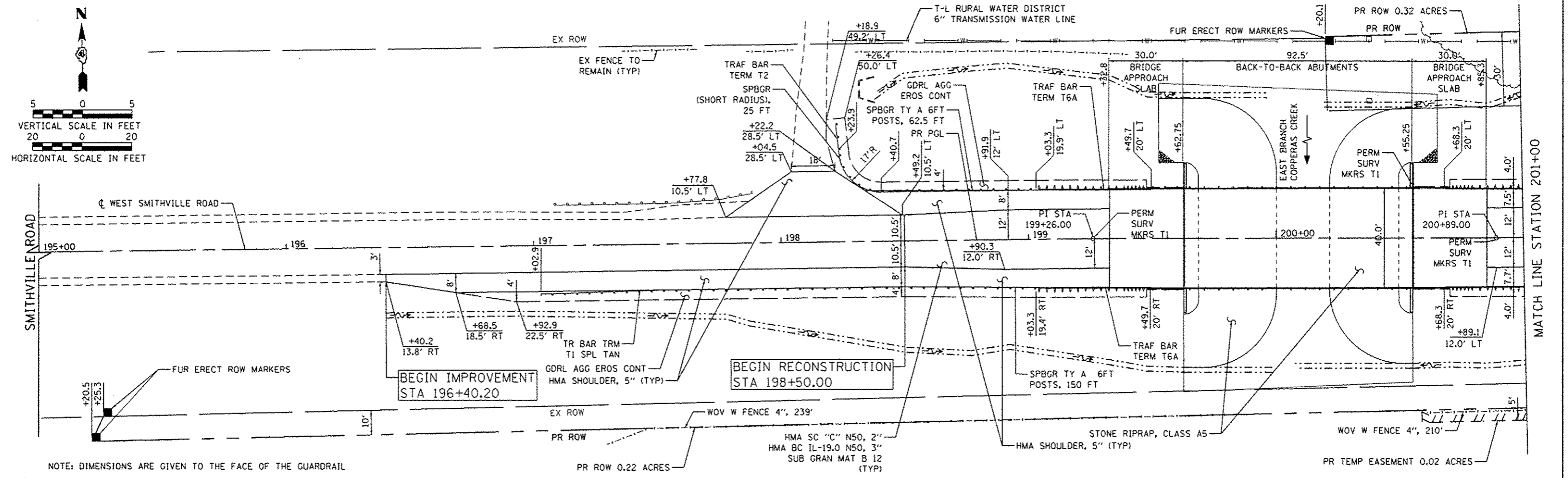
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 195+00.00 TO STA. 204+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	13
CONTRACT NO. 89464			ILLINOIS FED. AID PROJECT	

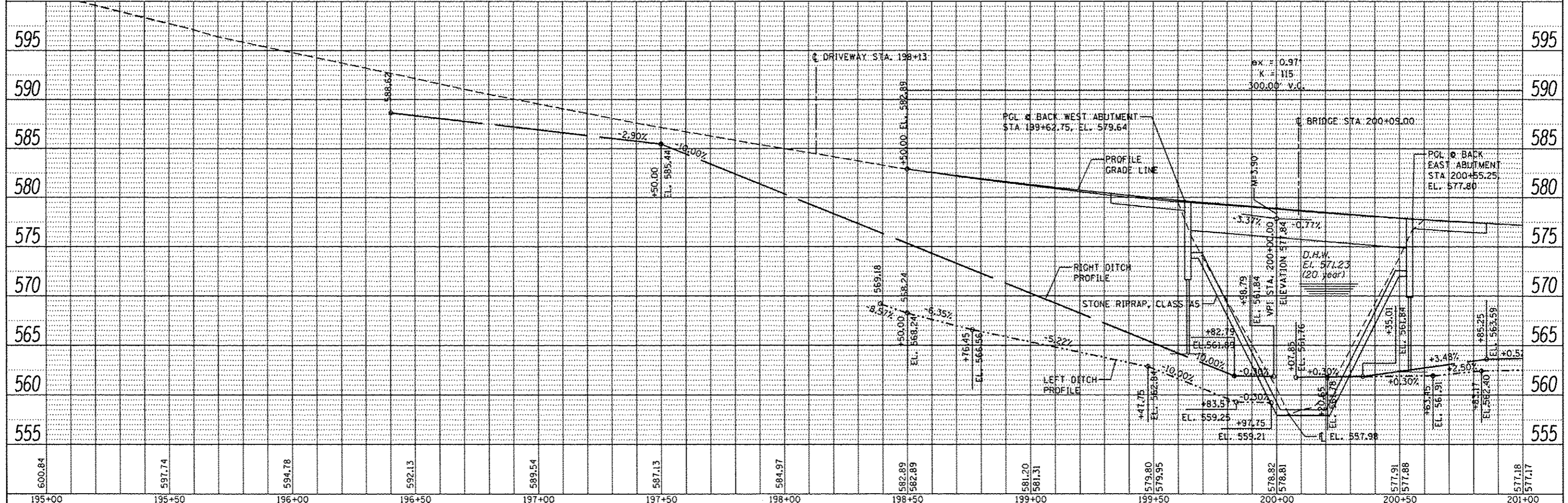
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	

INFRASTRUCTURE ENGINEERING
 455 N. WASHINGTON ST. PEORIA, IL 61602
 (309) 671-1111

DATE	
BY	
REVISION	
NO.	
DESCRIPTION	



NOTE: DIMENSIONS ARE GIVEN TO THE FACE OF THE GUARDRAIL

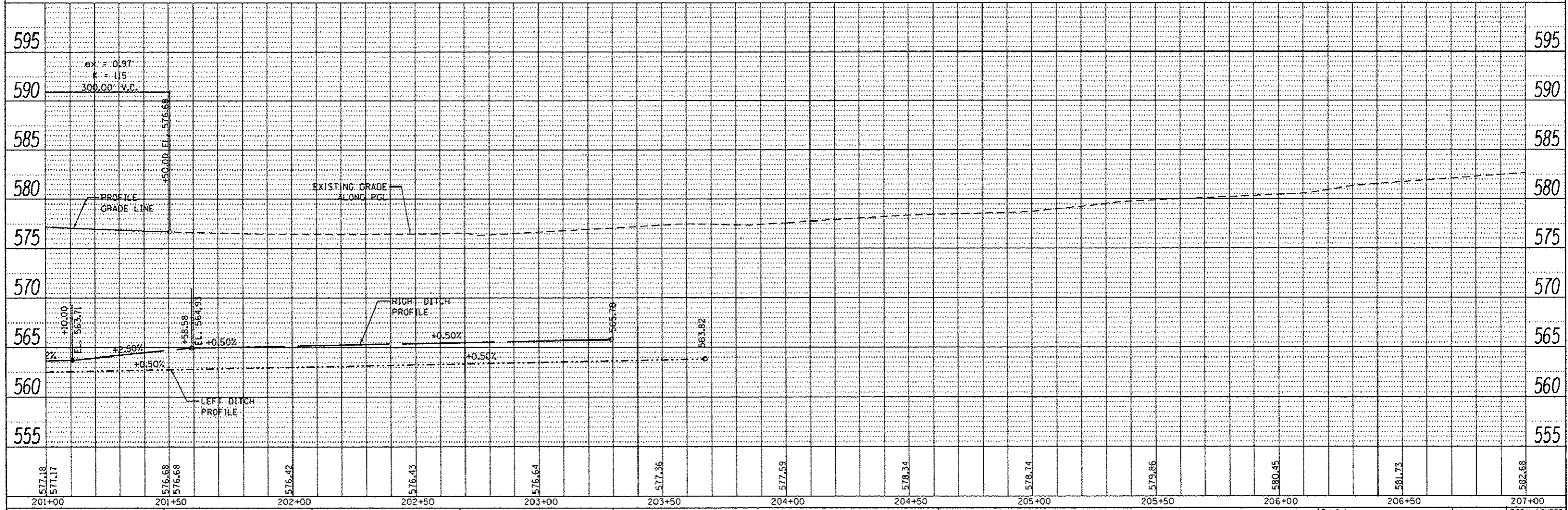
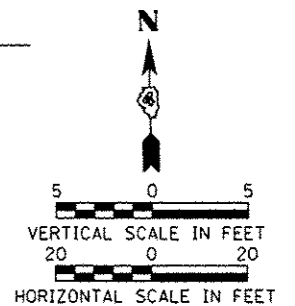
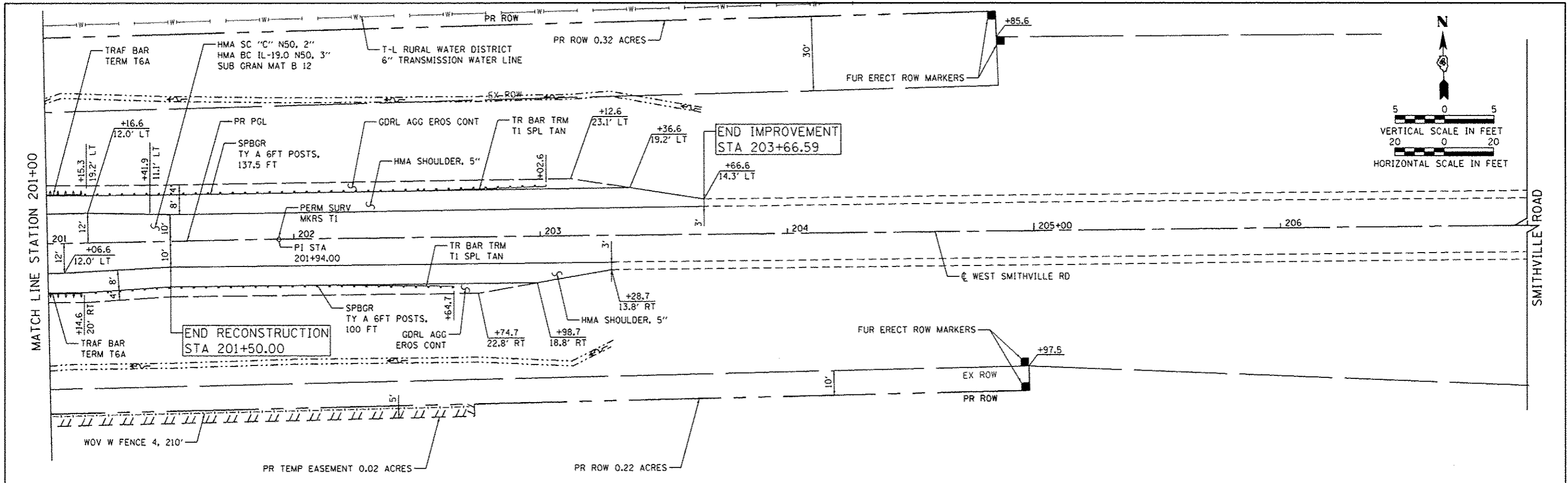


FILE NAME : #FILE#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	ROADWAY PLAN AND PROFILE		F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME : IGI	DRAWN - AJP	REVISED -		1381	10-00005-03-BR	PEORIA	55	14			
PLOT SCALE : 40.0000 / 1"	CHECKED - BAR	REVISED -		SCALE: 1" = 20'		SHEET NO. 1 OF 2 SHEETS		STA. 195+00.00 TO STA. 201+00.00		CONTRACT NO. 89464	
PLOT DATE : 10/28/2012	DATE - 11/02/2012	REVISED -		[ILLINOIS] FED. AID PROJECT							

DATE	
BY	
REVISIONS	
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BY	
REVISIONS	
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BY	
REVISIONS	
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



INFRASTRUCTURE
ENGINEERING

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	













FILE NAME = 9FILEA*	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	ROADWAY PLAN AND PROFILE				F.A.S. RTE. 1381	SECTION 10-0005-03-BR	COUNTY PEORIA	TOTAL SHEETS 55	SHEET NO. 15
USER NAME = IEI	DRAWN - AJP	REVISED -		SCALE: 1" = 20'				SHEET NO. 2 OF 2 SHEETS		STA. 201+00.00 TO STA. 207+00.00		CONTRACT NO. 89464
PLOT SCALE = 40.0000 / 1"	CHECKED - BAR	REVISED -		ILLINOIS FED. AID PROJECT								
PLOT DATE = 10/28/2012	DATE = 11/02/2012	REVISED -										

DETOUR LEGEND:

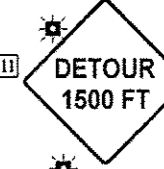

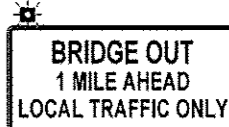

-  FLASHING LIGHT
-  TYPE III BARRICADE
-  SIGN ON POST
-  DETOUR
-  CONSTRUCTION WORK ZONE

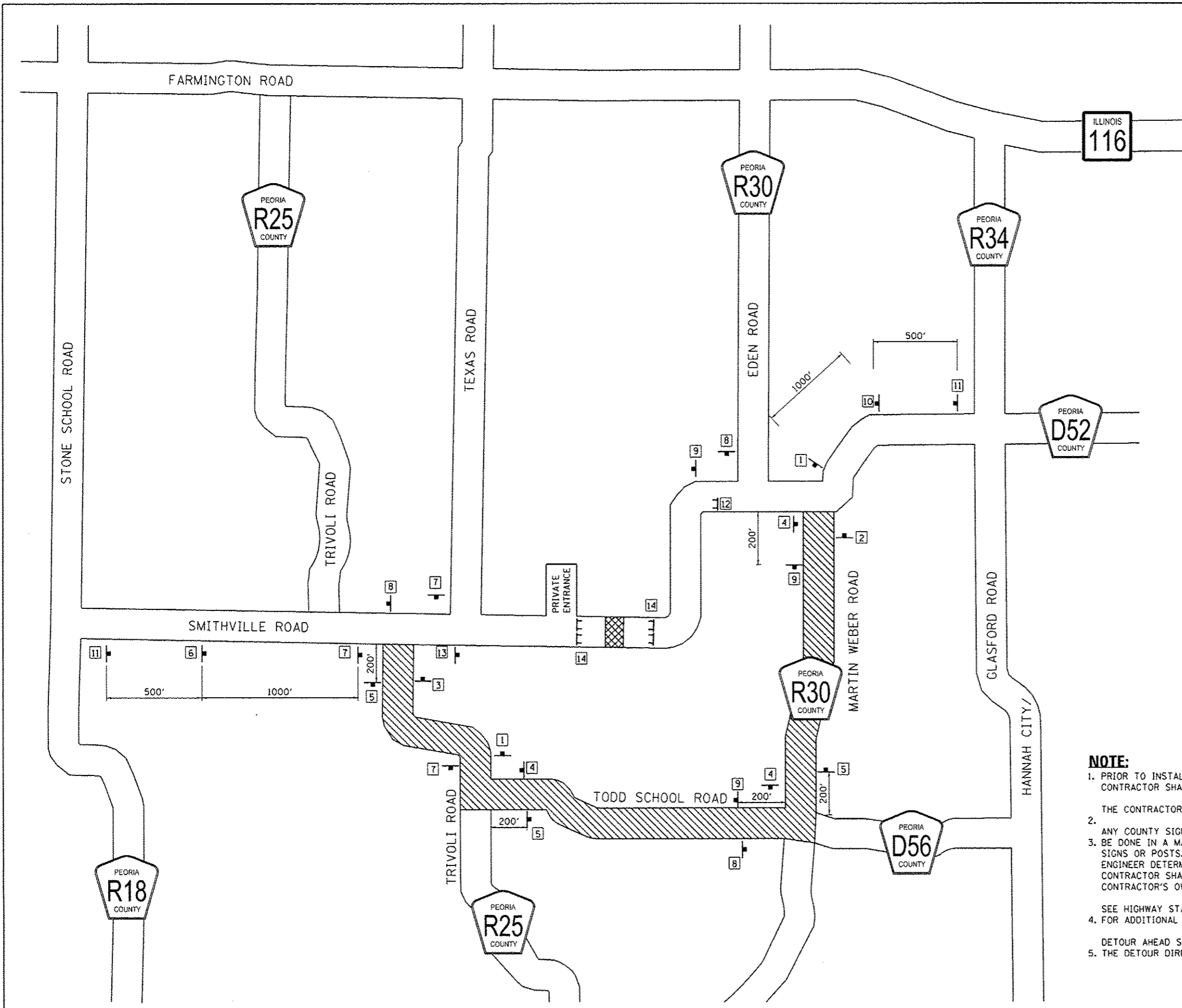


	M3-4 36" X 18" W17-1101 24"x12" M4-9L 30"x24"		M4-8a 24"x18" M3-2 36" X 18" W17-1101 24"x12"		M4-8a 24"x18" M3-4 36" X 18" W17-1101 24"x12"
	M3-4 36" X 18" W17-1101 24"x12" M4-9R 30"x24"		M4-8 24" X 12" M3-2 36" X 18" W17-1101 24"x12"		W17-1101 24"x12" M4-9R 30"x24"
			M3-2 36" X 18" W17-1101 24"x12" M4-9R 30"x24"		M3-2 36" X 18" W17-1101 24"x12" M4-9L 30"x24"
			M4-8 24" X 12" M3-4 36" X 18" W17-1101 24"x12"		W17-1101 24"x12" M4-9L 30"x24"

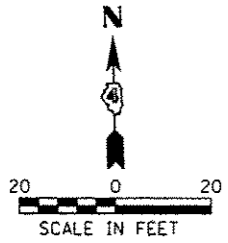
NOTE:

- PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
- THE CONTRACTOR SHALL SUPPLY ALL SIGNAGE.
- ANY COUNTY SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
- SEE HIGHWAY STANDARD 701901 AND DISTRICT DETAIL FOR ADDITIONAL INFORMATION.
- DETOUR AHEAD SIGNS SHALL BE PLACED 200' AHEAD OF 5. THE DETOUR DIRECTION INDICATOR SIGNS.

	W20-2 48"x48"
	R11-4 60"x30"
	R11-4 60"x30"
	R11-2 48"x30"

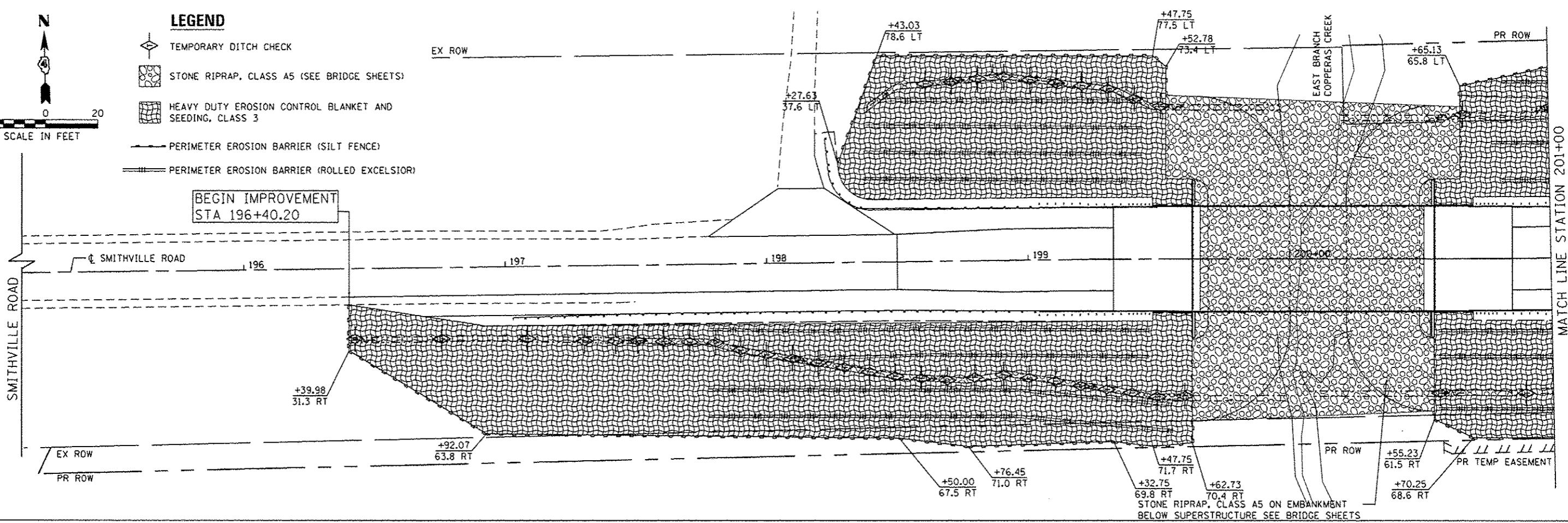


FILE NAME : #FILES*	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	DETOUR PLAN			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME : IEI	DRAWN - AJP	REVISED -		1381	10-00005-03-BR	PEORIA	55	16			
PLOT SCALE : 2.0000' / 1"	CHECKED - BAR	REVISED -		SCALE : N/A SHEET NO. 1 OF 1 SHEETS STA. N/A			CONTRACT NO. 89464				
PLOT DATE : 10/20/2012	DATE - 11/02/2012	REVISED -		ILLINOIS FED. AID PROJECT							



LEGEND

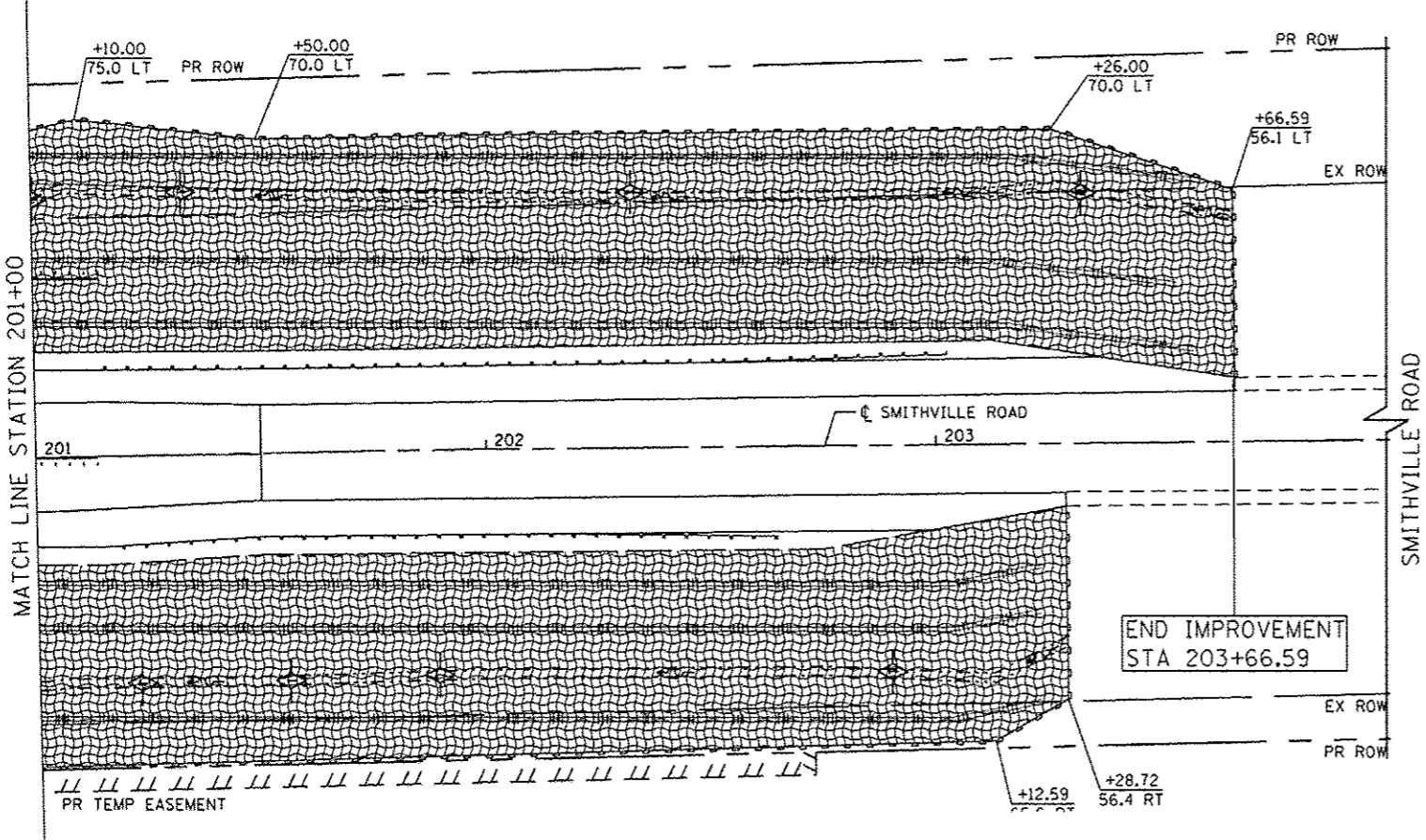
- TEMPORARY DITCH CHECK
- STONE RIPRAP, CLASS A5 (SEE BRIDGE SHEETS)
- HEAVY DUTY EROSION CONTROL BLANKET AND SEEDING, CLASS 3
- PERIMETER EROSION BARRIER (SILT FENCE)
- PERIMETER EROSION BARRIER (ROLLED EXCELSIOR)



INFRASTRUCTURE ENGINEERING, INC.
 488 E. State Street, Suite 100, Peoria, IL 61611
 TEL: 309.691.4000 FAX: 309.691.4001

TEMPORARY EROSION CONTROL NOTES

1. THE CONTRACTOR IS TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO START OF WORK.
2. EROSION CONTROL TO BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AND TO BE INSPECTED AND DOCUMENTED BY THE CONTRACTOR 24 HOURS AFTER ANY RAIN EVENT EXCEEDING 0.5 INCHES OF PRECIPITATION AND ON A WEEKLY BASIS. THE CONTRACTOR SHALL IMMEDIATELY PLACE AND MAINTAIN TEMPORARY EROSION CONTROL SEEDING AT ALL ERODIBLE/BARE AREAS. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280 -TEMPORARY EROSION CONTROL OF THE STANDARD SPECIFICATIONS, HIGHWAY STANDARD 280001-05, AND AS DIRECTED BY THE ENGINEER.
3. NO RUNOFF FROM STRIPPED AREA IS TO LEAVE THE SITE OTHER THAN THROUGH EROSION CONTROL PROTECTIVE MEASURES. THE CONTRACTOR WILL ADJUST HIS OPERATIONS AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL CONFORM TO IEPA AND IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
5. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SEQUENCE OF STAGE CONSTRUCTION.
6. ALL DISTURBED AREAS SHALL BE SEEDING AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. AREAS THAT HAVE BEEN STRIPPED AND WILL NOT RECEIVE PERMANENT LANDSCAPING BEFORE THE END OF THE FALL SEEDING RESTRICTION SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING, MULCH, AND EROSION CONTROL BLANKET.
7. THIS PROJECT DISTURBS MORE THAN 1 ACRE. THEREFORE, ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE SITE-SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AS PER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. (SEE SPECIAL PROVISIONS)
8. THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THAT TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND THE AREAS DAMAGED BY THE FENCE INSTALLATION SHALL BE RESTORED.
9. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL AREAS, IMMEDIATELY AFTER SEEDING.
10. LANDSCAPE SEEDING LIMITS ARE THE SAME LIMITS AS THE EROSION CONTROL SEEDING LIMITS.



FILE NAME = #FILES*	DESIGNED - AJP	REVISED -
USER NAME = IEI	DRAWN - AJP	REVISED -
PLOT SCALE = 48.0000' / 1"	CHECKED - BAR	REVISED -
PLOT DATE = 10/26/2012	DATE - 11/02/2012	REVISED -

**PEORIA COUNTY
HIGHWAY DEPARTMENT**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 194+25.00 TO STA. 204+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-8R	PEORIA	55	17
CONTRACT NO. 89464			ILLINOIS FED. AID PROJECT	

PEORIA COUNTY HIGHWAY DEPARTMENT

NOTES:

BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, WEST ZONE NAD 83 (1997)

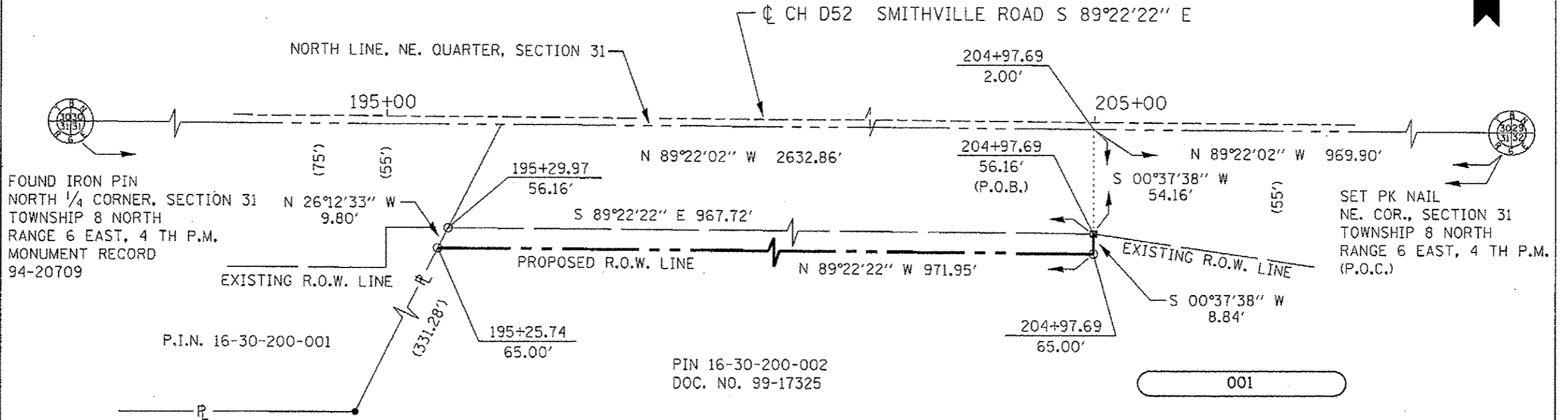
- ⊗ R.O.W. MARKER FOUND
- IRON PIN OR PIPE FOUND
- SET 5/8" IRON PIN W/ CAP
- EXISTING R.O.W. LINE
- - - EXISTING CENTERLINE
- SECTION LINE
- PROPOSED R.O.W. LINE
- () RECORD DATA



CATALOG NO.	CONTACT NO.
DATE	
BY	
COMPUTED	
CHECKED	
INKED	
INK CHECKED	
R.O.W. PLAT	
NOTE BOOK	
NO.	

FOUND IRON PIN NORTH 1/4 CORNER, SECTION 31 TOWNSHIP 8 NORTH RANGE 6 EAST, 4 TH P.M. MONUMENT RECORD 94-20709

SET PK NAIL NE. COR., SECTION 31 TOWNSHIP 8 NORTH RANGE 6 EAST, 4 TH P.M. (P.O.C.)



ROBERT DEPPERMAN
LINDA L. DEPPERMAN

AREA = 8572 SQ. FT. +/-, 0.197 acres +/-
A PART OF THE NORTHEAST QUARTER OF

SECTION 31 TOWNSHIP 8 NORTH, RANGE 6 E, 4 TH PRINCIPAL MERIDIAN
PEORIA COUNTY

RIGHT OF WAY PLAT

ROUTE CH D52 SMITHVILLE ROAD CONSTRUCTION SECTION 10-00005-03-BR

SCALE: 1" = 50' DATE MAR. 2011 JOB NO. _____

THIS PLAT OF SURVEY WAS MADE UNDER MY DIRECTION FOR THE PEORIA COUNTY HIGHWAY DEPARTMENT, STATE OF ILLINOIS AND CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Michael D. Curtis March 07, 2011

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3071
LICENSE EXPIRES 11/30/12
FIELD WORK COMPLETED FEBRUARY OF 2011



Signed _____ Recorded _____ BOOK _____ PAGE _____ DOCUMENT NO. 001

PROPOSED ROW LIMITS ARE FROM STA 195+20 TO STA 204+98, ON THE SOUTH SIDE OF THE ROADWAY, AND FROM STA 200+20 TO STA 204+86, ON THE NORTH SIDE OF THE ROADWAY.

FILE NAME = #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	RIGHT-OF-WAY SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = IEI	DRAWN - AJP	REVISED -			1381	10-00005-03-BR	PEORIA	55	18
PLOT SCALE = 10.0000' / 1" =	CHECKED - BAR	REVISED -			CONTRACT NO. 89464				
PLOT DATE = 10/20/2012	DATE - 11/02/2012	REVISED -			ILLINOIS FED. AID PROJECT				

PEORIA COUNTY HIGHWAY DEPARTMENT

NOTES:

BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, WEST ZONE NAD 83 (1997)

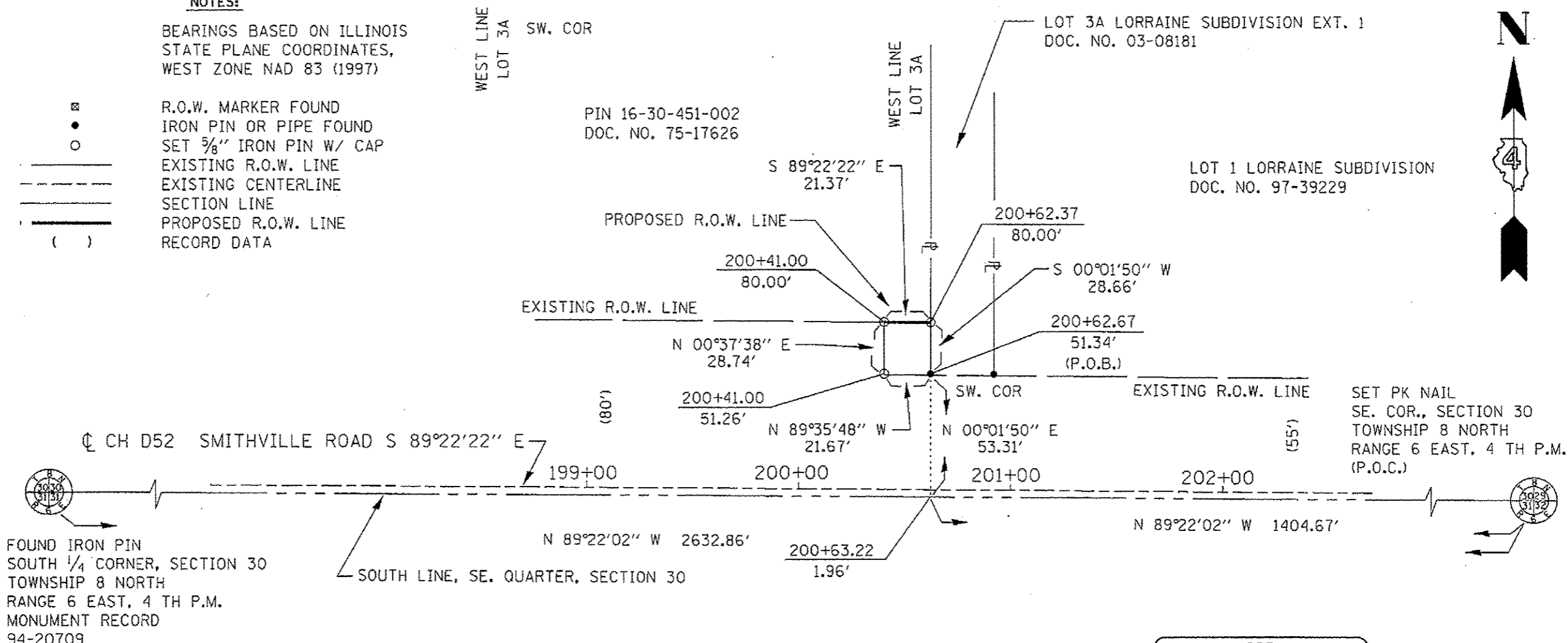
- ⊗ R.O.W. MARKER FOUND
- IRON PIN OR PIPE FOUND
- SET 5/8" IRON PIN W/ CAP
- EXISTING R.O.W. LINE
- - - EXISTING CENTERLINE
- SECTION LINE
- PROPOSED R.O.W. LINE
- () RECORD DATA

WEST LINE LOT 3A SW. COR

PIN 16-30-451-002
DOC. NO. 75-17626

LOT 3A LORRAINE SUBDIVISION EXT. 1
DOC. NO. 03-08181

LOT 1 LORRAINE SUBDIVISION
DOC. NO. 97-39229



FOUND IRON PIN SOUTH 1/4 CORNER, SECTION 30 TOWNSHIP 8 NORTH RANGE 6 EAST, 4 TH P.M. MONUMENT RECORD 94-20709

SET PK NAIL SE. COR., SECTION 30 TOWNSHIP 8 NORTH RANGE 6 EAST, 4 TH P.M. (P.O.C.)

002

GARY L. DINGLEDINE
SHIRLEY A. DINGLEDINE

AREA = 618 SQ. FT. +/-, 0.014 acres +/-

A PART OF THE SOUTHEAST QUARTER OF SECTION 30 TOWNSHIP 8 NORTH, RANGE 6 E, 4 TH PRINCIPAL MERIDIAN PEORIA COUNTY

RIGHT OF WAY PLAT

ROUTE CH D52 SMITHVILLE ROAD CONSTRUCTION SECTION 10-00005-03-BR

SCALE: 1"= 50' DATE MAR. 2011 JOB NO. _____

THIS PLAT OF SURVEY WAS MADE UNDER MY DIRECTION FOR THE PEORIA COUNTY HIGHWAY DEPARTMENT, STATE OF ILLINOIS AND CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Michael D. Curtis March 07, 2011

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3071
LICENSE EXPIRES 11/30/12
FIELD WORK COMPLETED FEBRUARY OF 2011



Signed _____ Recorded _____ BOOK _____ PAGE _____ DOCUMENT NO. 002

PROPOSED ROW LIMITS ARE FROM STA 195+20 TO STA 204+98, ON THE SOUTH SIDE OF THE ROADWAY, AND FROM STA 200+20 TO STA 204+86, ON THE NORTH SIDE OF THE ROADWAY.

INFRASTRUCTURE ENGINEERING



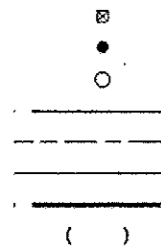
CATALOG NO.	CONTACT NO.
BY	DATE
COMPUTED	CHECKED
INKED	INK CHECKED
R.O.W. PLAT	NOTE BOOK
NO.	NO.

FILE NAME = #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	RIGHT-OF-WAY SHEETS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = IEI	DRAWN - AJP	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	PEORIA	55	19
PLOT SCALE = 10.0000 / in.	CHECKED - BAR	REVISED -							CONTRACT NO. B9464		
PLOT DATE = 10/28/2012	DATE - 11/02/2012	REVISED -							ILLINOIS FED. AID PROJECT		

PEORIA COUNTY HIGHWAY DEPARTMENT

NOTES:

BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, WEST ZONE NAD 83 (1997)



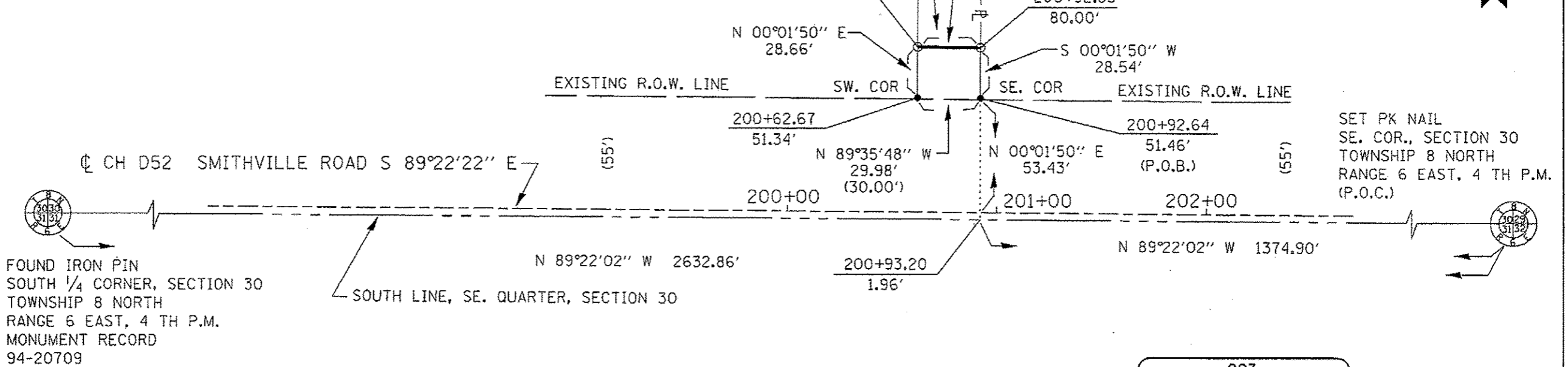
R.O.W. MARKER FOUND
 IRON PIN OR PIPE FOUND
 SET 5/8" IRON PIN W/ CAP
 EXISTING R.O.W. LINE
 EXISTING CENTERLINE
 SECTION LINE
 PROPOSED R.O.W. LINE
 RECORD DATA

WEST LINE LOT 3A
 SW. COR

LOT 3A LORRAINE SUBDIVISION EXT. 1
 DOC. NO. 03-08181

PIN 16-30-478-006
 DOC. NO. 2010-024529

LOT 1 LORRAINE SUBDIVISION
 DOC. NO. 97-39229



SET PK NAIL
 SE. COR., SECTION 30
 TOWNSHIP 8 NORTH
 RANGE 6 EAST, 4 TH P.M.
 (P.O.C.)

FOUND IRON PIN
 SOUTH 1/4 CORNER, SECTION 30
 TOWNSHIP 8 NORTH
 RANGE 6 EAST, 4 TH P.M.
 MONUMENT RECORD
 94-20709

003

STEFANIE T. EVANS
 PHILLIP EVANS

AREA = 857 SQ. FT. +/-, 0.020 acres +/-

A PART OF THE SOUTHEAST QUARTER OF
 SECTION 30 TOWNSHIP 8 NORTH, RANGE 6 E, 4 TH PRINCIPAL MERIDIAN
 PEORIA COUNTY

RIGHT OF WAY PLAT

ROUTE CH D52 SMITHVILLE ROAD CONSTRUCTION SECTION 10-00005-03-BR

SCALE: 1"= 50' DATE MAR. 2011 JOB NO. _____

THIS PLAT OF SURVEY WAS MADE UNDER MY DIRECTION FOR THE PEORIA COUNTY HIGHWAY DEPARTMENT, STATE OF ILLINOIS AND CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Michael D. Curtis March 07, 2011

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3071
 LICENSE EXPIRES 11/30/12
 FIELD WORK COMPLETED FEBRUARY OF 2011



Signed _____ Recorded _____ BOOK _____ PAGE _____ DOCUMENT NO. 003

PROPOSED ROW LIMITS ARE FROM STA 195+20 TO STA 204+98, ON THE SOUTH SIDE OF THE ROADWAY, AND FROM STA 200+20 TO STA 204+86, ON THE NORTH SIDE OF THE ROADWAY.

INFRASTRUCTURE ENGINEERING
 485 Plaza Street, Suite 100, Peoria, IL 61611
 PEORIA, ILLINOIS 61611

CATALOG NO.	CONTACT NO.
BY	DATE
COMPUTED	CHECKED
INKED	INK CHECKED
R.O.W. PLAT	NOTE BOOK NO.

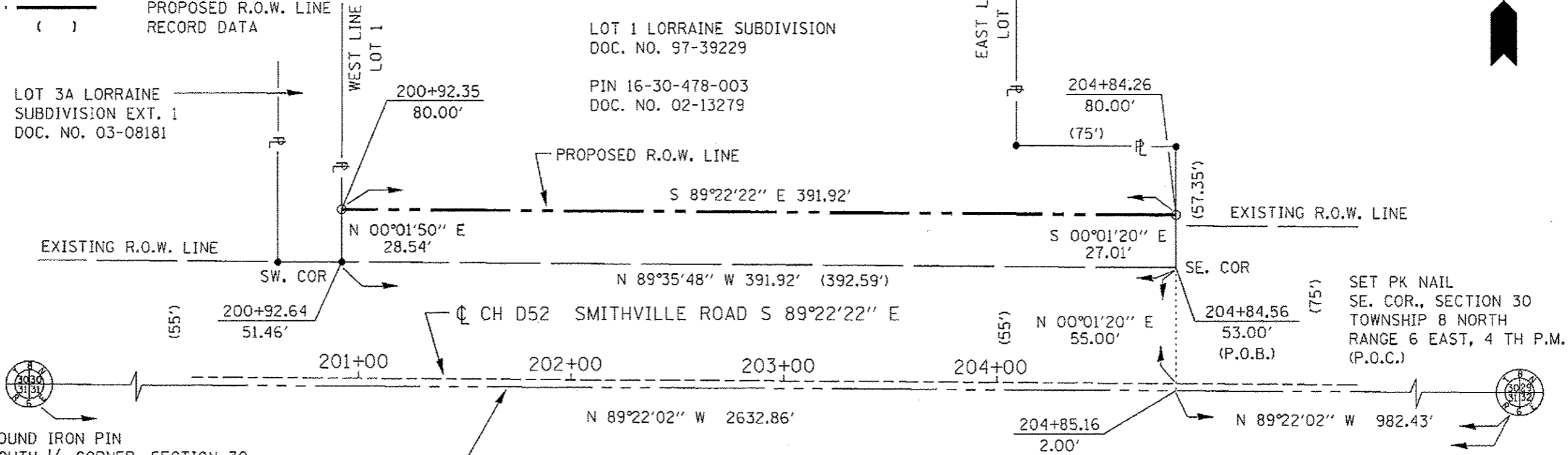
FILE NAME # FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	RIGHT-OF-WAY SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME # IEI	DRAWN - AJP	REVISED -			1381	10-00005-03-BR	PEORIA	55	20	
PLOT SCALE # 10.0000 1/4"	CHECKED - BAR	REVISED -			CONTRACT NO. 89464					
PLOT DATE # 10/20/2012	DATE - 11/02/2012	REVISED -			ILLINOIS FED. AID PROJECT					

PEORIA COUNTY HIGHWAY DEPARTMENT

NOTES:

BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, WEST ZONE NAD 83 (1997)

- ⊠ R.O.W. MARKER FOUND
- IRON PIN OR PIPE FOUND
- SET 5/8" IRON PIN W/ CAP
- EXISTING R.O.W. LINE
- - - EXISTING CENTERLINE
- SECTION LINE
- PROPOSED R.O.W. LINE
- () RECORD DATA



FOUND IRON PIN SOUTH 1/4 CORNER, SECTION 30 TOWNSHIP 8 NORTH RANGE 6 EAST, 4 TH P.M. MONUMENT RECORD 94-20709

THIS PLAT OF SURVEY WAS MADE UNDER MY DIRECTION FOR THE PEORIA COUNTY HIGHWAY DEPARTMENT, STATE OF ILLINOIS AND CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Michael D. Curtis March 07, 2011

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3071
 LICENSE EXPIRES 11/30/12
 FIELD WORK COMPLETED FEBRUARY OF 2011



STEVEN J. ANDERSON
 AREA = 10886 SQ. FT. +/-, 0.250 acres +/-
 A PART OF THE SOUTHEAST QUARTER OF
 SECTION 30 TOWNSHIP 8 NORTH, RANGE 6 E, 4 TH PRINCIPAL MERIDIAN
 PEORIA COUNTY

RIGHT OF WAY PLAT

ROUTE CH D52 SMITHVILLE ROAD CONSTRUCTION SECTION 10-00005-03-BR

SCALE: 1"= 50' DATE MAR. 2011 JOB NO. _____

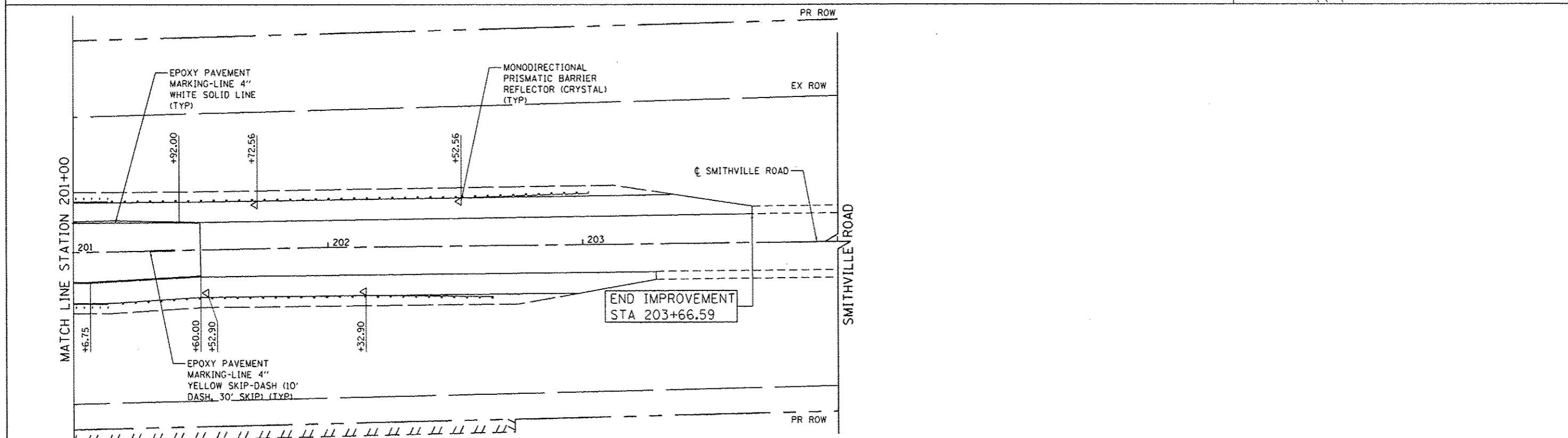
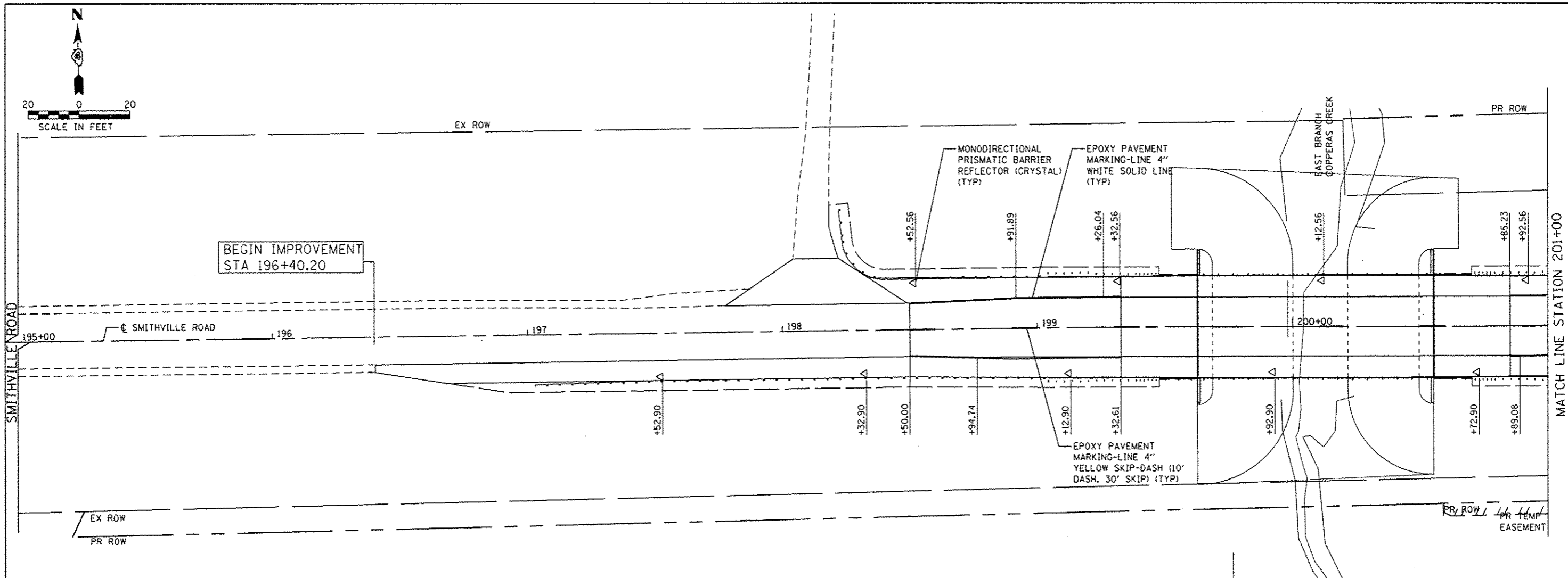
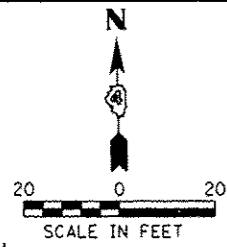
CATALOG NO.	CONTACT NO.
BY	DATE
COMPUTED	CHECKED
INKED	INK CHECKED
R.O.W. PLAT	NOTE BOOK
NO.	NO.

PROPOSED ROW LIMITS ARE FROM STA 195+20 TO STA 204+98, ON THE SOUTH SIDE OF THE ROADWAY, AND FROM STA 200+20 TO STA 204+86, ON THE NORTH SIDE OF THE ROADWAY.

Signed _____ Recorded _____ BOOK _____ PAGE _____ DOCUMENT NO. 004

INFRASTRUCTURE ENGINEERING INCORPORATED
 485 E. Main Street, Peoria, IL 61602
 309.692.1234

FILE NAME * #FILES*	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	RIGHT-OF-WAY SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME * IEI	DRAWN - AJP	REVISED -			1381	10-00005-03-BR	PEORIA	55	21	
PLOT SCALE * 10.0000 "/ in.	CHECKED - BAR	REVISED -			CONTRACT NO. 89464					
PLOT DATE * 10/28/2012	DATE - 11/02/2012	REVISED -			ILLINOIS FED. AID PROJECT					



INFRASTRUCTURE
 ENGINEERING
 444 E. Main Street, Peoria, IL 61602
 Phone: 309.691.1111
 Fax: 309.691.1112
 www.infraeng.com

FILE NAME = #FILES*	DESIGNED - AJP	REVISED -
USER NAME = IEI	DRAWN - AJP	REVISED -
PLOT SCALE = 40,0000 1/4" = 100'	CHECKED - BAR	REVISED -
PLOT DATE = 10/28/2012	DATE - 11/02/2012	REVISED -

**PEORIA COUNTY
HIGHWAY DEPARTMENT**

PAVEMENT MARKING PLAN

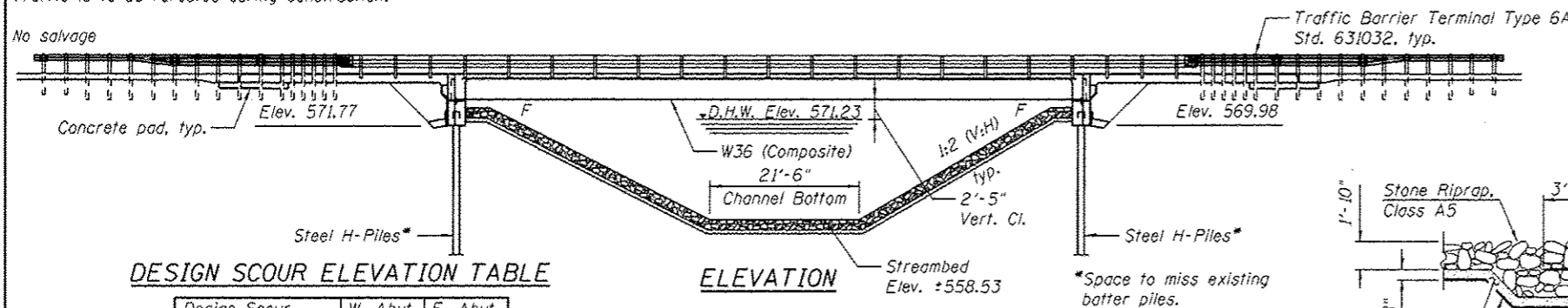
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 197+00.00 TO STA. 203+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	22
CONTRACT NO. 89464			ILLINOIS FED. AID PROJECT	

Bench Mark: 2"x2" square cut in southeast corner of south head wall for box culvert under Smithville West Road, 44.36 feet south of Smithville West Road centerline at Station 194+58.99. Elevation = 590.85.

Existing Structure: S.N. 072-3047 built in 1964 as F.A.S. 1381, Section 5-2RG at Station 200+11.00. The existing structure consists of a 3 span continuous cast-in-place concrete deck slab supported on pile bent abutments and 5 column concrete encased pile bent piers. Length = 99'-6" back to back abutments. Width = 28'-4" out to out deck. Traffic is to be rerouted during construction.

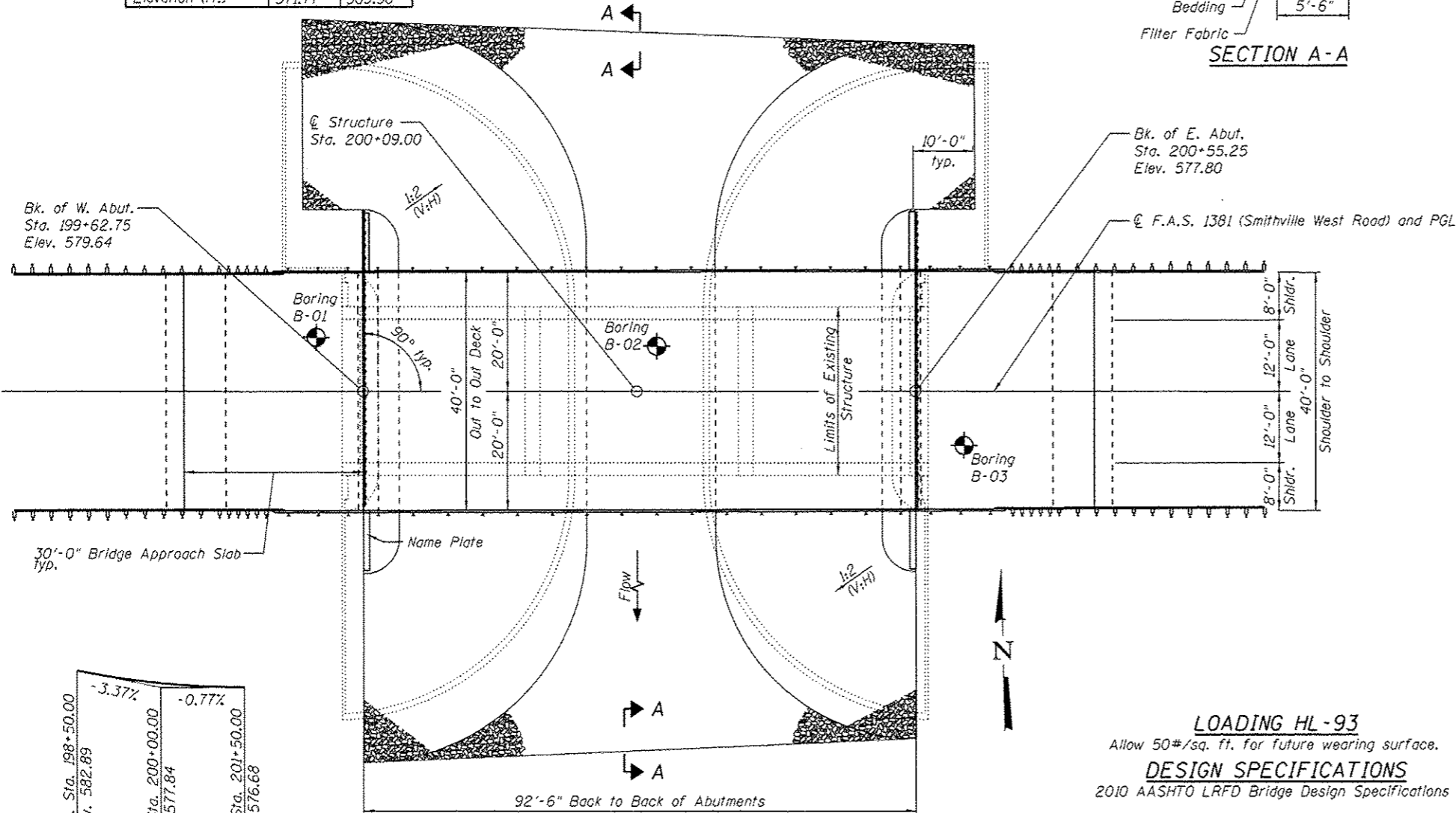
No salvage



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut. 571.77	E. Abut. 569.98

ELEVATION

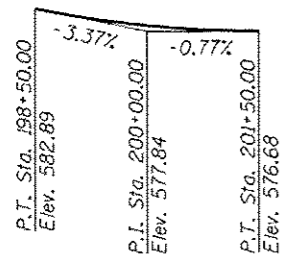


PLAN WATERWAY INFORMATION

Drainage Area = 11.72 Sq. Mi. Low Grade Elev. 576.39 @ Sta. 202+18.52

Flood	Freq. Yr.	Q C.F.S.	Opening Exist.	Opening Prop.	Head - Ft. H.W.E. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	20	3452	505	596	571.23	0.22	0.11	571.45
Base	100	5150	647	755	573.32	0.34	0.18	573.66
Overtopping								
Max. Calc.	500	7100	794	781	575.25	0.48	0.43	575.73

PROFILE GRADE (along & roadway)



I certify that to the best of 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 Standard Specifications for Highway Bridges.



Steven P. Karlowksi
EXP. 11/30/2012
DATE: 09/24/2012

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes and Abutment Drainage Details
- 3 Top of Slab Elevations
- 4 Top of West Approach Slab Elevations
- 5 Top of East Approach Slab Elevations
- 6 Deck Plan & Cross Section
- 7 Superstructure Details
- 8 Bridge Approach Slab Details (1 of 2)
- 9 Bridge Approach Slab Details (2 of 2)
- 10 Steel Railing, Type SM
- 11 Framing Plan & Structural Steel Details
- 12 West Abutment
- 13 East Abutment
- 14 HP Pile Details
- 15 Bar Splicer Assembly and Mechanical Splicer Details
- 16 Soil Boring Logs

EAST BRANCH OF COPPERAS CREEK
BUILT 2013 BY
PEORIA COUNTY
SEC. 10-00005-03-BR
F.A.S. RT. 1381 STA. 200+09.00
STR. NO. 072-3148 LOADING HL-93

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		1,383	1,383
Filter Fabric	Sq. Yd.		1,383	1,383
Removal Of Existing Structures	Each	0.5	0.5	1
Structure Excavation	Cu. Yd.		77	77
Concrete Structures	Cu. Yd.		60.9	60.9
Concrete Superstructure	Cu. Yd.	280.5		280.5
Bridge Deck Grooving	Sq. Yd.	677		677
Concrete Encasement	Cu. Yd.		6.6	6.6
Protective Coat	Sq. Yd.	708		708
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1,212		1,212
Reinforcement Bars, Epoxy Coated	Pound	61,590	11,470	73,060
Bar Splicers	Each	86		86
Steel Railing, Type SM	Foot	245		245
Furnishing Steel Piles HP14x73	Foot		366.5	366.5
Driving Piles	Foot		366.5	366.5
Test Pile Steel HP14x73	Each		2	2
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	24		24
Geocomposite Wall Drain	Sq. Yd.		76	76
Granular Backfill for Structures	Cu. Yd.		115	115
Asbestos Bearing Pad Removal	Each	10		10
Pipe Underdrain for Structures, 4"	Foot		128	128

**Quantity is for Top of Deck, Outside Edges of Deck and Top of Approach Slabs.

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.
DESIGN SPECIFICATIONS
2010 AASHTO LRFD Bridge Design Specifications

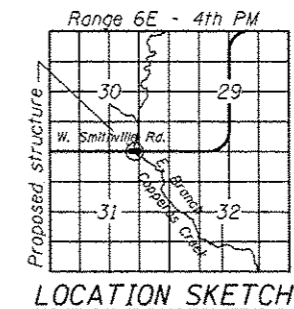
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.072g
Design Spectral Acceleration at 0.2 sec. (S₀₅) = 0.112g
Soil Site Class = D



GENERAL PLAN & ELEVATION
SMITHVILLE WEST ROAD OVER
E. BRANCH OF COPPERAS CREEK
F.A.S. 1381 SEC. 10-00005-03-BR
PEORIA COUNTY
STATION 200+09.00
STRUCTURE NO. 072-3148

PEORIA COUNTY
HIGHWAY DEPARTMENT

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 072-3148

SHEET NO. 1 OF 18 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	23
				CONTRACT NO. 89464
ILLINOIS FED. AID PROJECT				

10/29/2012 5:01:46 PM P:\P-102356 - Smithville Road Bridge\03N\000 Sheets\Structural\0723148-2356-01-0PE.dgn

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 3 bolts. Bolts 3/4 in. ϕ , holes 5/8 in. ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 112,170 pounds (AASHTO M 270 Grade 50W)

All structural steel shall be AASHTO M 270 Grade 50W. All structural steel shall be cleaned as specified in Article 506.07.

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

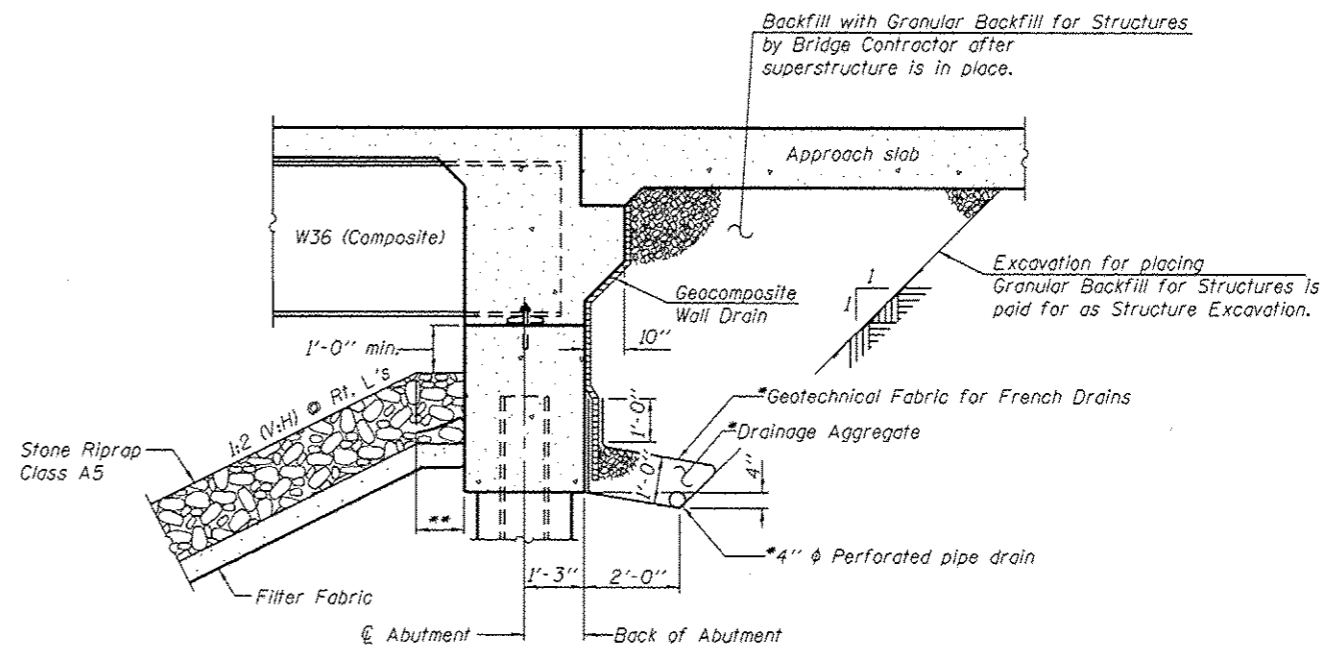
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Reinforcement bars designated (E) shall be epoxy coated.

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

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.



SECTION THRU ABUTMENT

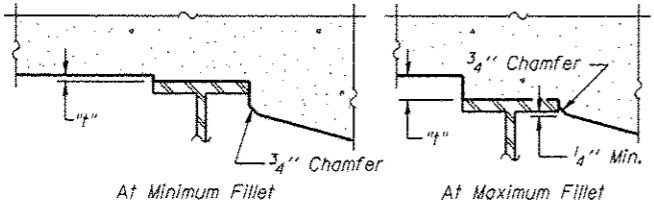
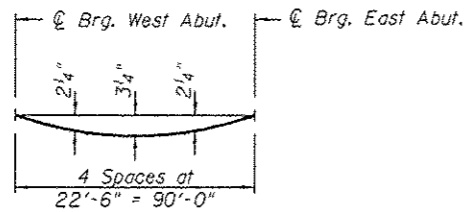
*Included in the cost of Pipe Underdrains for Structures.

**3'-6 1/4" at West Abutment
3'-1 1/4" at East Abutment

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).

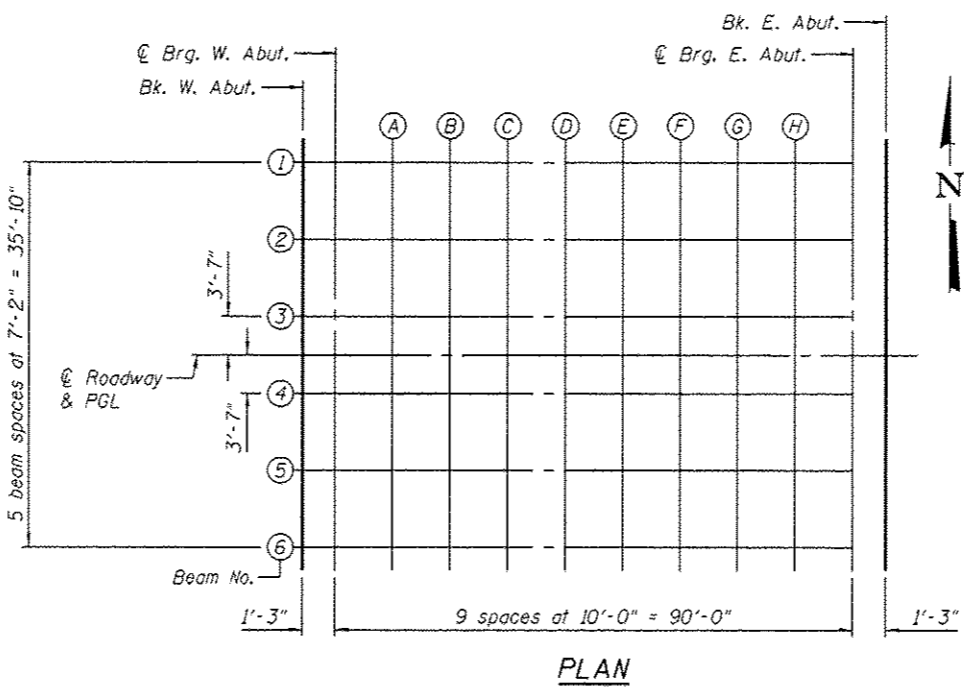
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INFRASTRUCTURE ENGINEERING <small>456 Fulton Street Suite 104 Peoria, IL 61602 P: 308.333.8900 F: 308.333.8100 www.infrastructure.com</small>	USER NAME =	DESIGNED - LAN	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	GENERAL NOTES AND ABUTMENT DRAINAGE DETAIL STRUCTURE NO. 072-3148	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - SPK	REVISED -	1381			10-00005-03-BR	PEORIA	55	24	
	PLOT SCALE =	DRAWN - LAN	REVISED -			CONTRACT NO. 89464				
	PLOT DATE =	CHECKED - SPK	REVISED -			ILLINOIS FED. AID PROJECT				
SHEET NO. 2 OF 18 SHEETS										



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

FILLET HEIGHTS



PLAN

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	199+62.75	-17.92	579.33	579.33
☉ Brg. W. Abut.	199+64.00	-17.92	579.30	579.30
A	199+74.00	-17.92	579.07	579.16
B	199+84.00	-17.92	578.84	579.02
C	199+94.00	-17.92	578.63	578.86
D	200+04.00	-17.92	578.42	578.68
E	200+14.00	-17.92	578.22	578.48
F	200+24.00	-17.92	578.03	578.26
G	200+34.00	-17.92	577.85	578.02
H	200+44.00	-17.92	577.67	577.77
☉ Brg. E. Abut.	200+54.00	-17.92	577.51	577.51
Bk. E. Abut.	200+55.25	-17.92	577.49	577.49

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	199+62.75	-10.75	579.47	579.47
☉ Brg. W. Abut.	199+64.00	-10.75	579.44	579.44
A	199+74.00	-10.75	579.21	579.30
B	199+84.00	-10.75	578.99	579.16
C	199+94.00	-10.75	578.77	579.00
D	200+04.00	-10.75	578.56	578.82
E	200+14.00	-10.75	578.36	578.63
F	200+24.00	-10.75	578.17	578.40
G	200+34.00	-10.75	577.99	578.16
H	200+44.00	-10.75	577.82	577.91
☉ Brg. E. Abut.	200+54.00	-10.75	577.65	577.65
Bk. E. Abut.	200+55.25	-10.75	577.63	577.63

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	199+62.75	-3.58	579.59	579.59
☉ Brg. W. Abut.	199+64.00	-3.58	579.56	579.56
A	199+74.00	-3.58	579.32	579.42
B	199+84.00	-3.58	579.10	579.27
C	199+94.00	-3.58	578.88	579.11
D	200+04.00	-3.58	578.67	578.94
E	200+14.00	-3.58	578.47	578.74
F	200+24.00	-3.58	578.28	578.52
G	200+34.00	-3.58	578.10	578.27
H	200+44.00	-3.58	577.93	578.02
☉ Brg. E. Abut.	200+54.00	-3.58	577.76	577.76
Bk. E. Abut.	200+55.25	-3.58	577.74	577.74

☉ ROADWAY AND PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	199+62.75	0.00	579.64	579.64
☉ Brg. W. Abut.	199+64.00	0.00	579.61	579.61
A	199+74.00	0.00	579.38	579.47
B	199+84.00	0.00	579.15	579.33
C	199+94.00	0.00	578.94	579.17
D	200+04.00	0.00	578.73	578.99
E	200+14.00	0.00	578.53	578.79
F	200+24.00	0.00	578.34	578.57
G	200+34.00	0.00	578.16	578.33
H	200+44.00	0.00	577.98	578.08
☉ Brg. E. Abut.	200+54.00	0.00	577.82	577.82
Bk. E. Abut.	200+55.25	0.00	577.80	577.80

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	199+62.75	3.58	579.59	579.59
☉ Brg. W. Abut.	199+64.00	3.58	579.56	579.56
A	199+74.00	3.58	579.32	579.42
B	199+84.00	3.58	579.10	579.27
C	199+94.00	3.58	578.88	579.11
D	200+04.00	3.58	578.67	578.94
E	200+14.00	3.58	578.47	578.74
F	200+24.00	3.58	578.28	578.52
G	200+34.00	3.58	578.10	578.27
H	200+44.00	3.58	577.93	578.02
☉ Brg. E. Abut.	200+54.00	3.58	577.76	577.76
Bk. E. Abut.	200+55.25	3.58	577.74	577.74

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	199+62.75	10.75	579.47	579.47
☉ Brg. W. Abut.	199+64.00	10.75	579.44	579.44
A	199+74.00	10.75	579.21	579.30
B	199+84.00	10.75	578.99	579.16
C	199+94.00	10.75	578.77	579.00
D	200+04.00	10.75	578.56	578.82
E	200+14.00	10.75	578.36	578.63
F	200+24.00	10.75	578.17	578.40
G	200+34.00	10.75	577.99	578.16
H	200+44.00	10.75	577.82	577.91
☉ Brg. E. Abut.	200+54.00	10.75	577.65	577.65
Bk. E. Abut.	200+55.25	10.75	577.63	577.63

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	199+62.75	17.92	579.33	579.33
☉ Brg. W. Abut.	199+64.00	17.92	579.30	579.30
A	199+74.00	17.92	579.07	579.16
B	199+84.00	17.92	578.84	579.02
C	199+94.00	17.92	578.63	578.86
D	200+04.00	17.92	578.42	578.68
E	200+14.00	17.92	578.22	578.48
F	200+24.00	17.92	578.03	578.26
G	200+34.00	17.92	577.85	578.02
H	200+44.00	17.92	577.67	577.77
☉ Brg. E. Abut.	200+54.00	17.92	577.51	577.51
Bk. E. Abut.	200+55.25	17.92	577.49	577.49

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NORTH EDGE OF SHOULDER

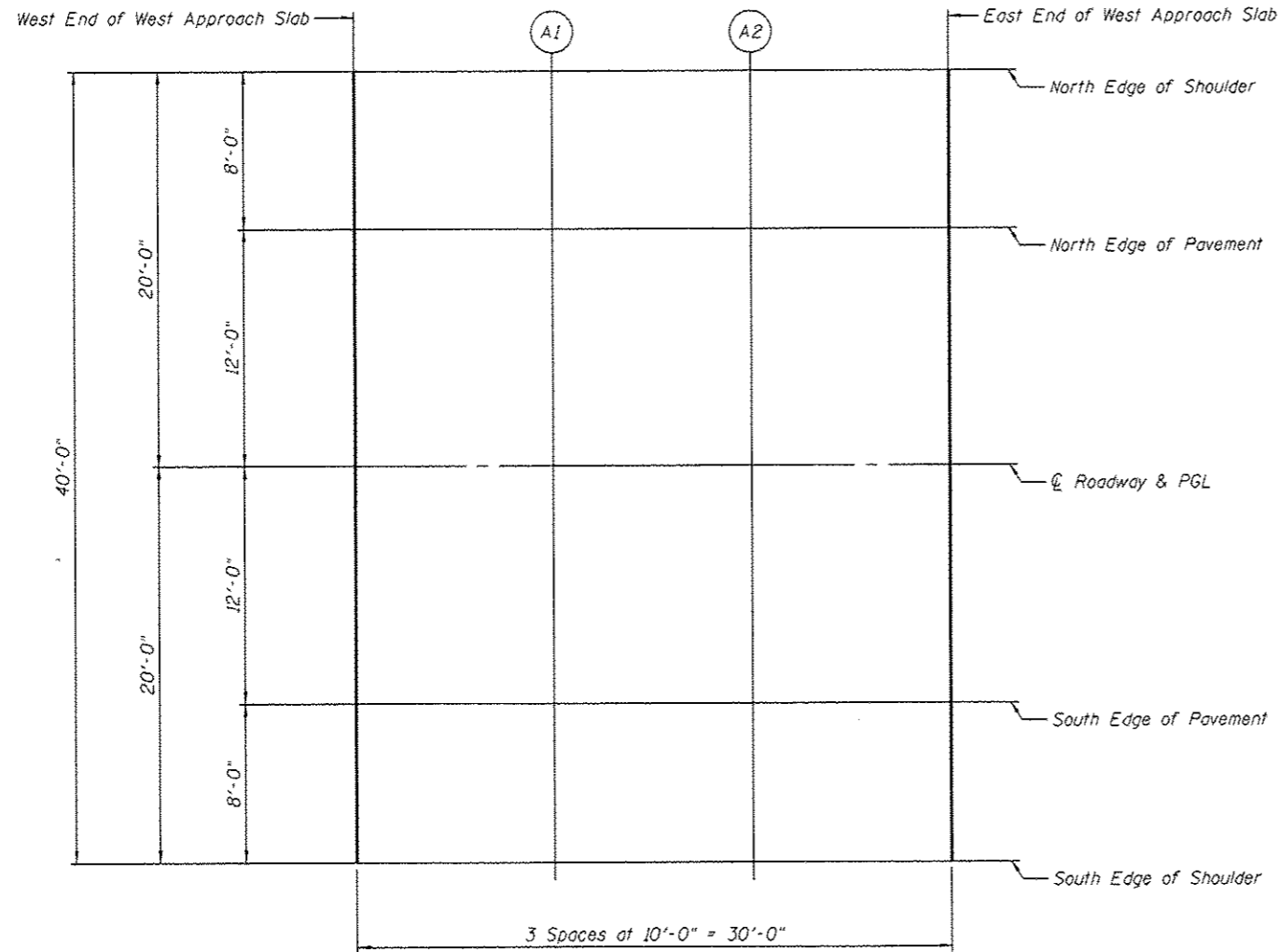
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	199+32.75	-20.00	580.05
A1	199+42.75	-20.00	579.78
A2	199+52.75	-20.00	579.53
E. End W. Appr. Slab	199+62.75	-20.00	579.29

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	199+32.75	-12.00	580.21
A1	199+42.75	-12.00	579.95
A2	199+52.75	-12.00	579.70
E. End W. Appr. Slab	199+62.75	-12.00	579.46

℄ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	199+32.75	0.00	580.40
A1	199+42.75	0.00	580.14
A2	199+52.75	0.00	579.89
E. End W. Appr. Slab	199+62.75	0.00	579.64



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	199+32.75	12.00	580.21
A1	199+42.75	12.00	579.95
A2	199+52.75	12.00	579.70
E. End W. Appr. Slab	199+62.75	12.00	579.46

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	199+32.75	20.00	580.05
A1	199+42.75	20.00	579.78
A2	199+52.75	20.00	579.53
E. End W. Appr. Slab	199+62.75	20.00	579.29

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INFRASTRUCTURE ENGINEERING <small>456 Fulton Street Suite 104 Peoria, IL 61602 P: 309.233.6262 F: 309.233.6263 www.infrastructureeng.com</small>	USER NAME # _____ PLOT SCALE # _____ PLOT DATE # _____	DESIGNED - LAN CHECKED - SPK DRAWN - LAN CHECKED - SPK	REVISED - _____ REVISED - _____ REVISED - _____ REVISED - _____	PEORIA COUNTY HIGHWAY DEPARTMENT	TOP OF WEST APPROACH SLAB ELEVATIONS STRUCTURE NO. 072-3148	F.A.S. RTE. 1381	SECTION 10-00005-03-BR	COUNTY PEORIA	TOTAL SHEETS 55	SHEET NO. 26	ILLINOIS FED. AID PROJECT CONTRACT NO. 89464
	SHEET NO. 4 OF 18 SHEETS										

NORTH EDGE OF SHOULDER

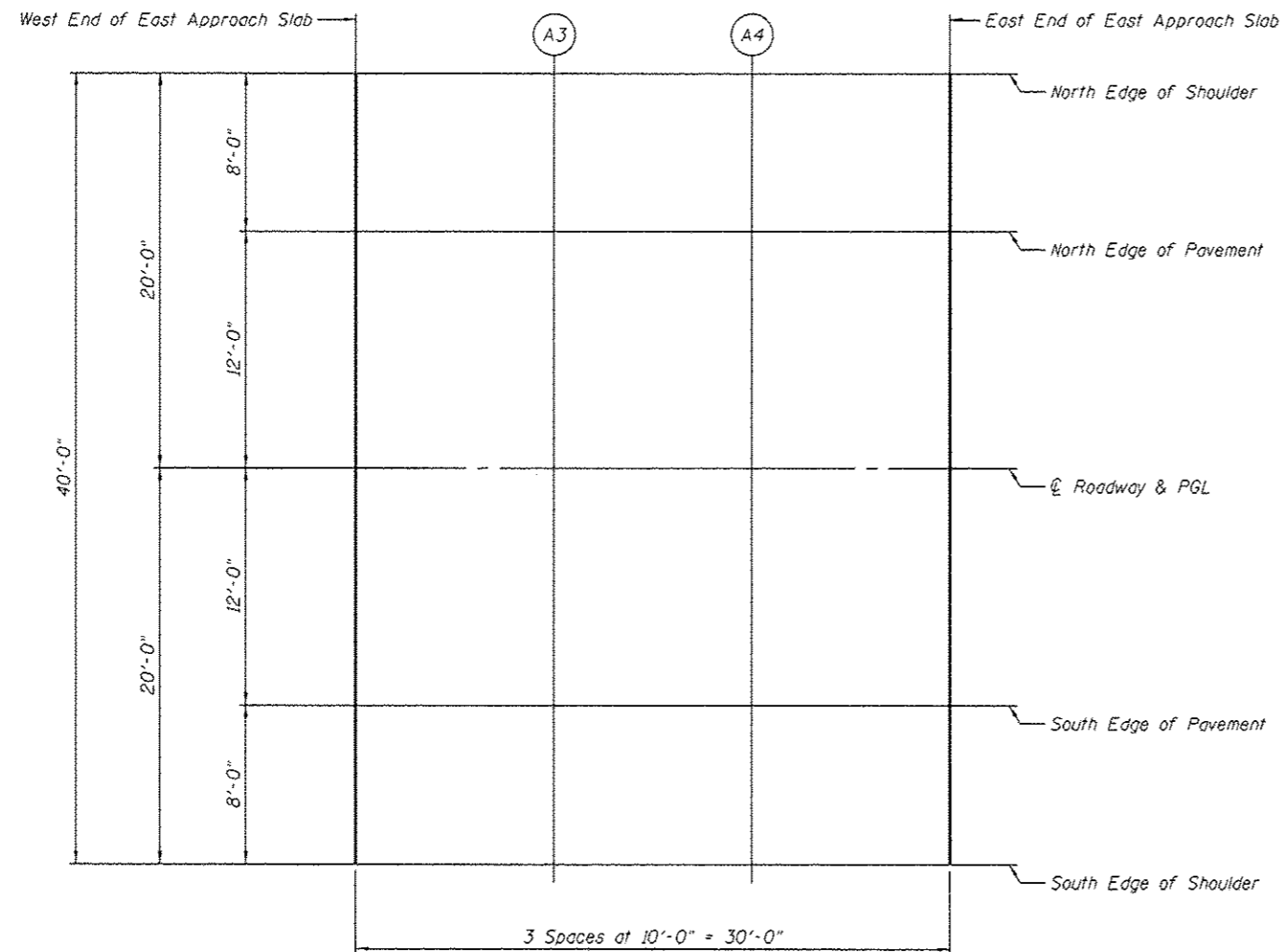
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	200+55.25	-20.00	577.45
A3	200+65.25	-20.00	577.29
A4	200+75.25	-20.00	577.14
E. End E. Appr. Slab	200+85.25	-20.00	577.01

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	200+55.25	-12.00	577.61
A3	200+65.25	-12.00	577.46
A4	200+75.25	-12.00	577.31
E. End E. Appr. Slab	200+85.25	-12.00	577.17

☉ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	200+55.25	0.00	577.80
A3	200+65.25	0.00	577.65
A4	200+75.25	0.00	577.50
E. End E. Appr. Slab	200+85.25	0.00	577.36



PLAN

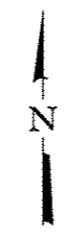
SOUTH EDGE OF PAVEMENT

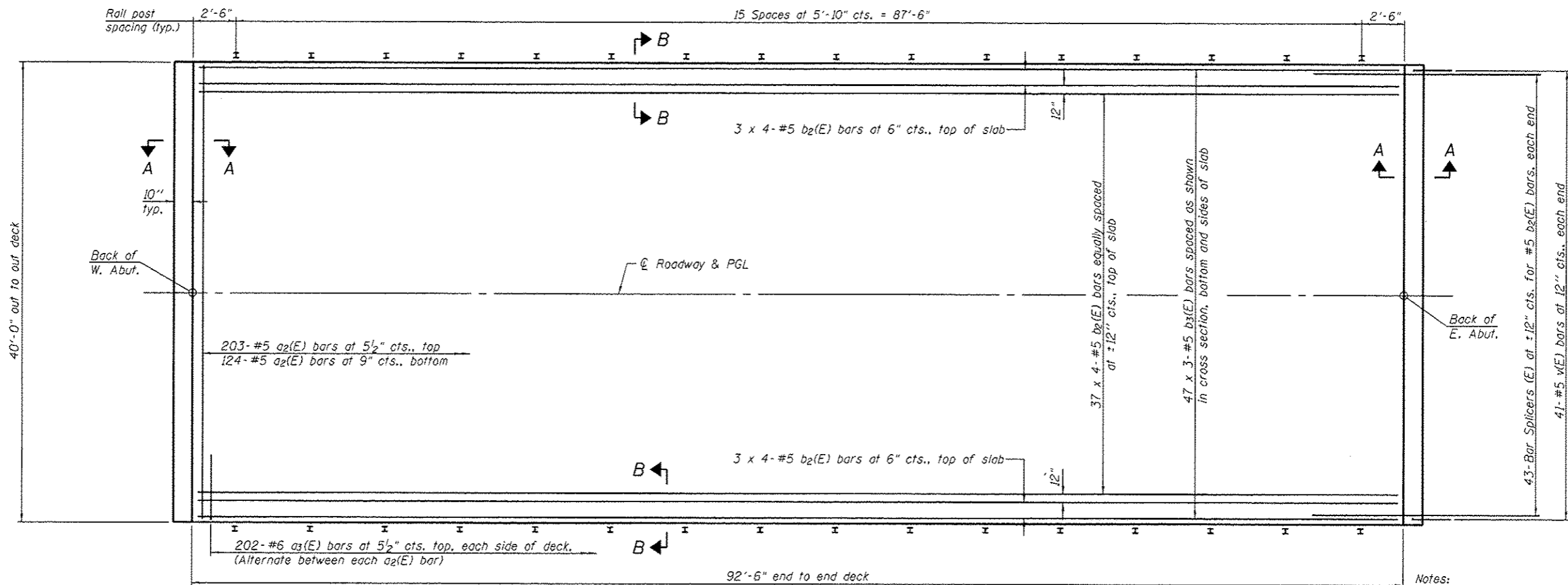
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	200+55.25	12.00	577.61
A3	200+65.25	12.00	577.46
A4	200+75.25	12.00	577.31
E. End E. Appr. Slab	200+85.25	12.00	577.17

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	200+55.25	20.00	577.45
A3	200+65.25	20.00	577.29
A4	200+75.25	20.00	577.14
E. End E. Appr. Slab	200+85.25	20.00	577.01

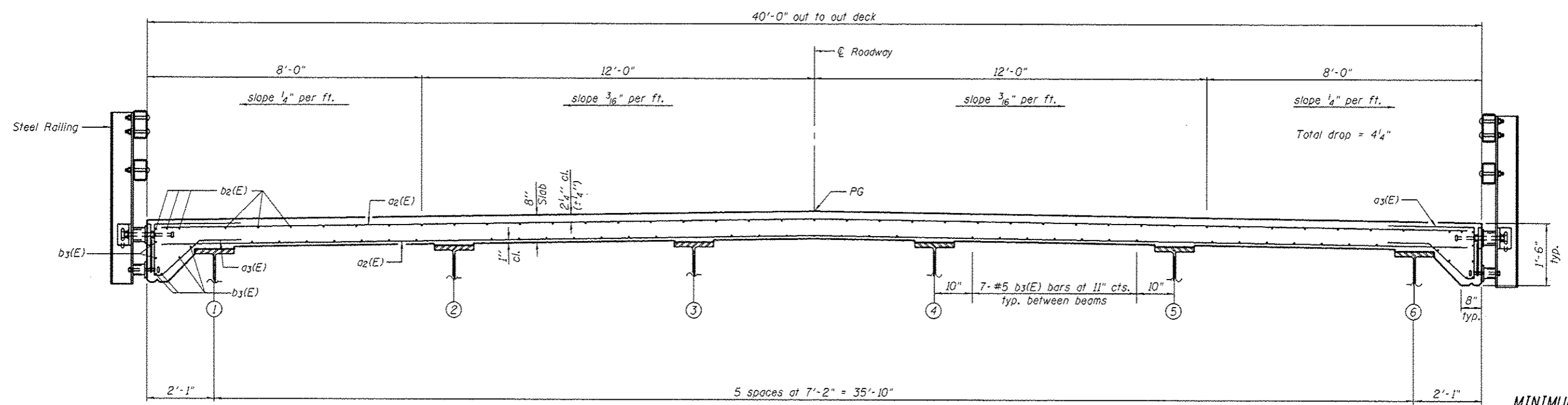
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PLAN

Notes:
 See Sheet 7 of 18 for Section A-A, Section B-B, diaphragm details and Bill of Material.
 Bars indicated thus 41 x 4-#5 etc. indicates 41 lines of bars with 4 lengths per line.
 See Sheet 10 of 18 for railing details.

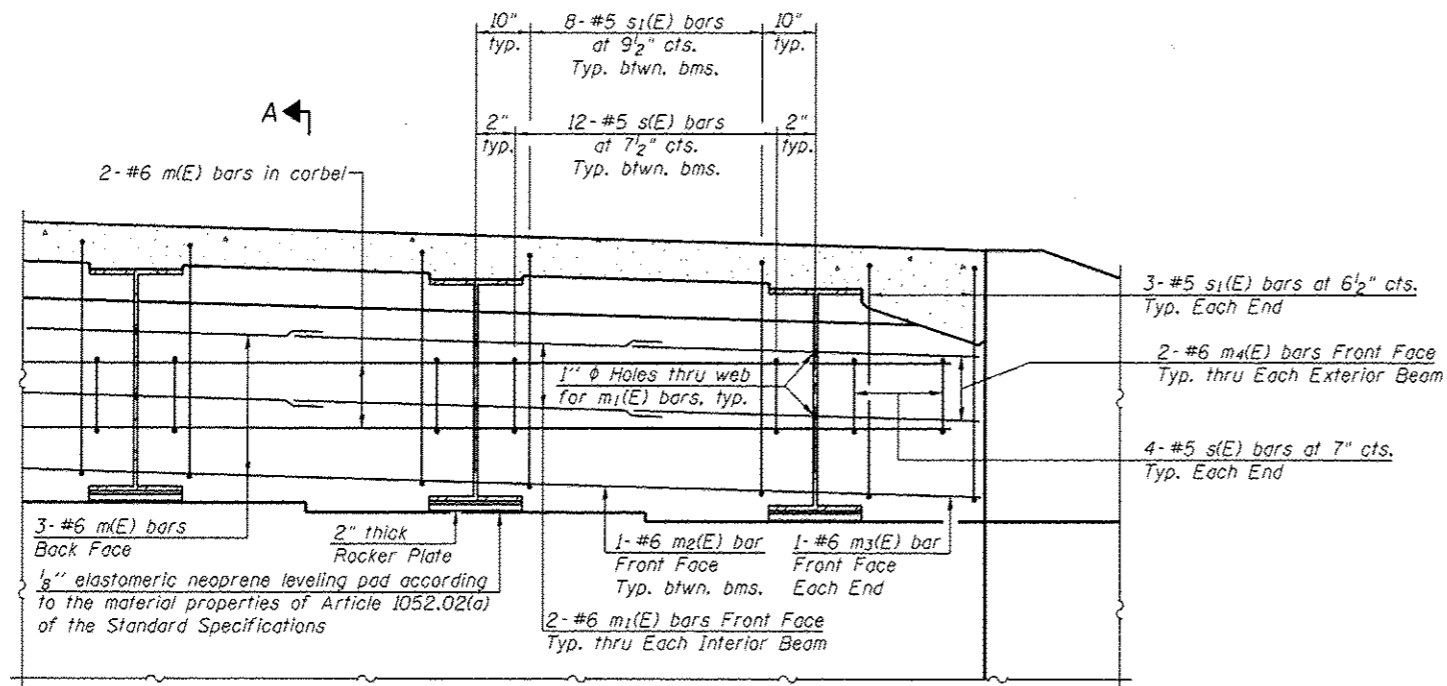


CROSS SECTION
(Looking East)

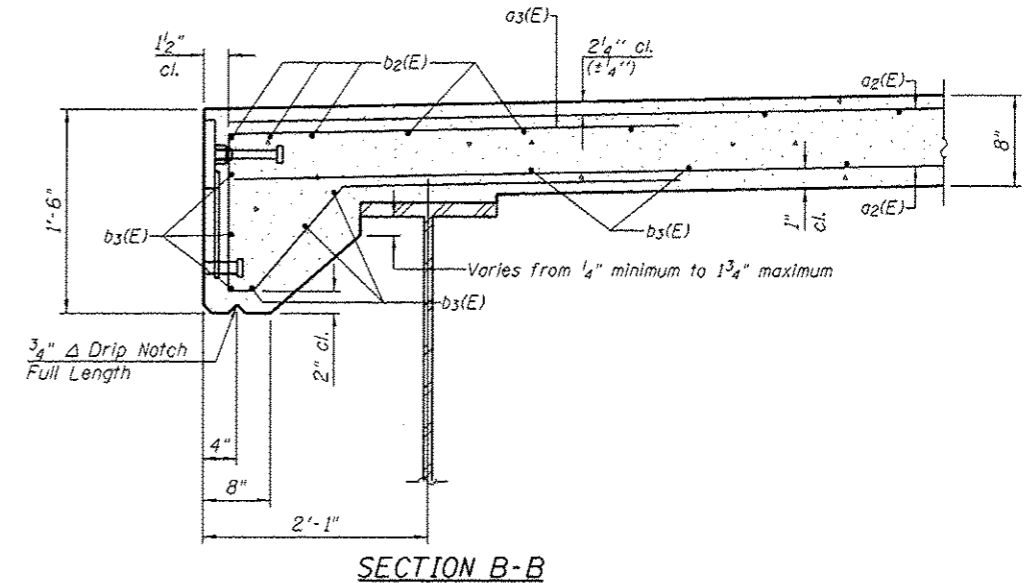
MINIMUM BAR LAP
 #5 bar = 3'-3"

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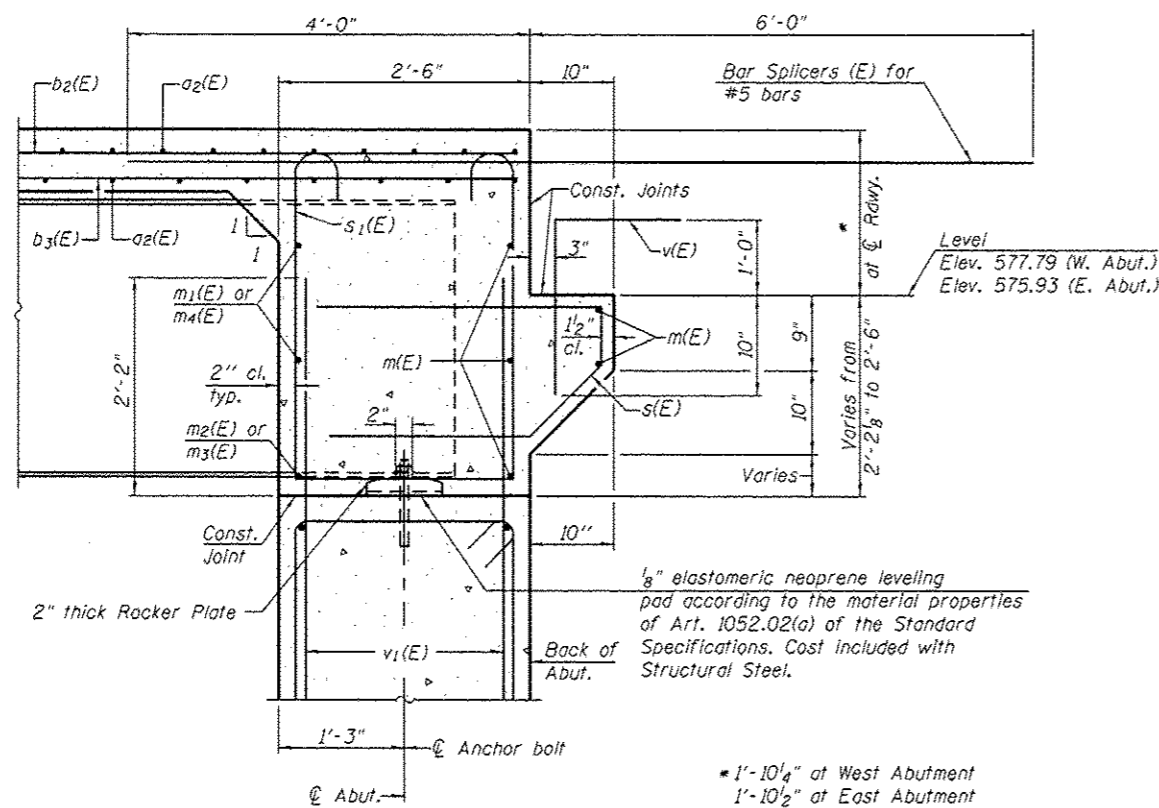
INFRASTRUCTURE ENGINEERING 456 Fulton Street Suite 104 Peoria, IL 61602 P: 308.522.8961 F: 308.522.8951 www.infrastructureeng.com	USER NAME *	DESIGNED - LAN	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	DECK PLAN AND CROSS SECTION STRUCTURE NO. 072-3148		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE #	CHECKED - SPK	REVISED -				1381	10-00005-03-BR	PEORIA	65	28
	PLOT DATE *	DRAWN - LAN	REVISED -				CONTRACT NO. 89464				
		CHECKED - SPK	REVISED -				ILLINOIS FED. AID PROJECT				
SHEET NO. 6 OF 18 SHEETS											



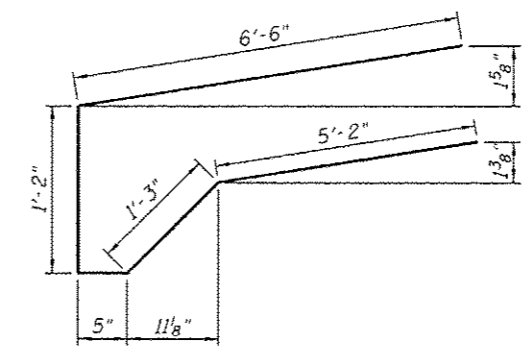
DIAPHRAGM ELEVATION AT ABUTMENT MIN. BAR LAP
#6 bar = 3'-4"



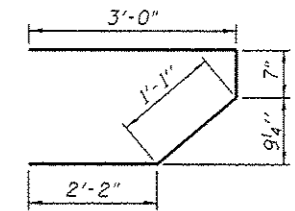
SECTION B-B



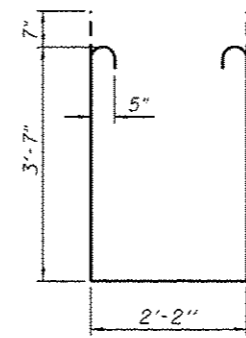
SECTION A-A



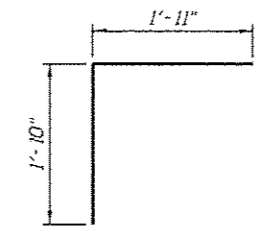
BAR a3(E)



BAR s(E)



BAR s1(E)



BAR v(E)

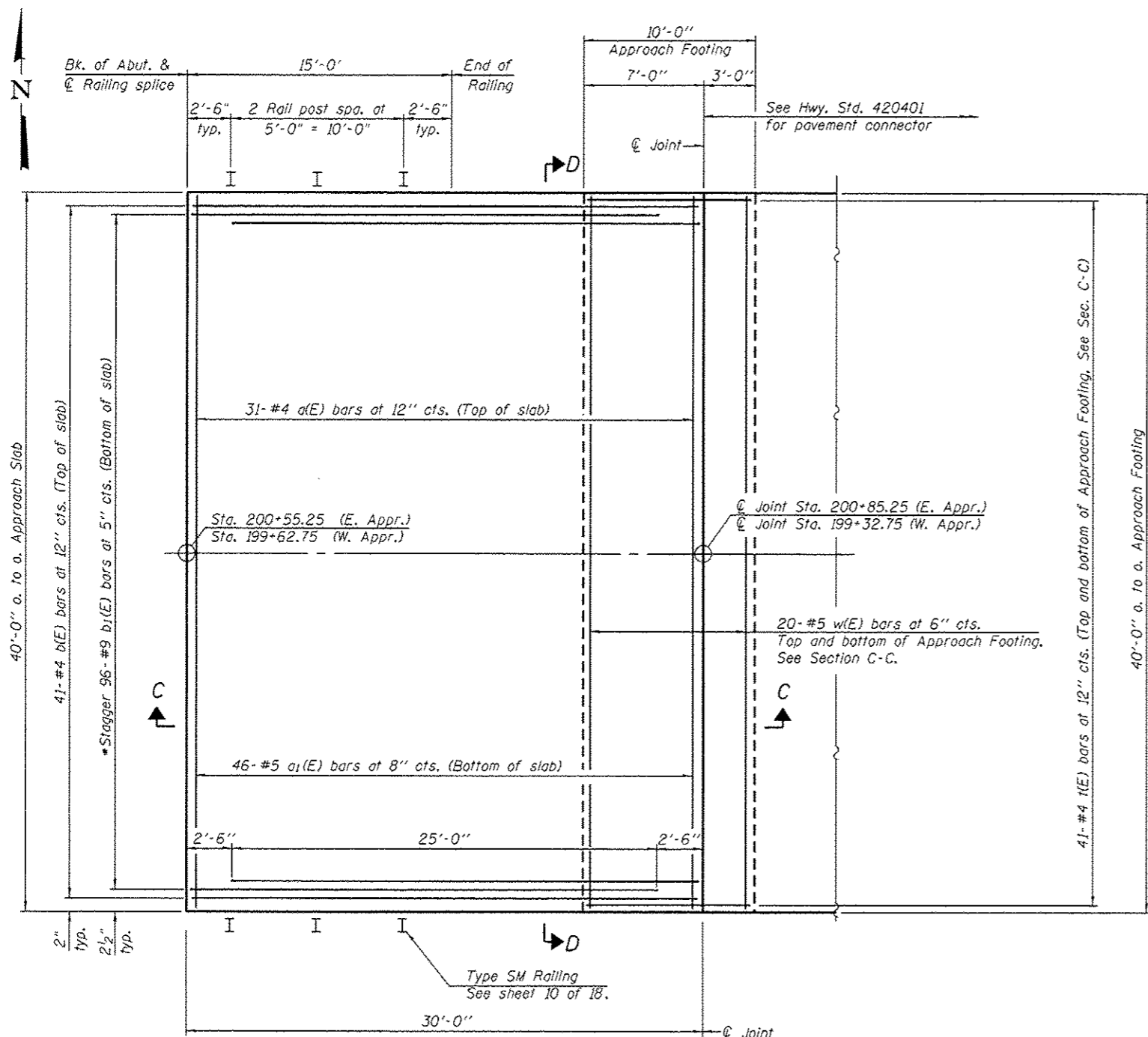
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2(E)	327	#5	39'-8"	—
a3(E)	404	#6	14'-6"	—
b2(E)	172	#5	25'-6"	—
b3(E)	141	#5	33'-0"	—
m(E)	10	#6	39'-8"	—
m1(E)	16	#6	10'-6"	—
m2(E)	10	#6	6'-10"	—
m3(E)	4	#6	1'-9"	—
m4(E)	8	#6	7'-2"	—
s(E)	136	#5	6'-10"	—
s1(E)	92	#5	10'-6"	—
v(E)	82	#5	3'-9"	—
Concrete Superstructure			Cu. Yd.	143.2
Bridge Deck Grooving			Sq. Yd.	411
Protective Coat			Sq. Yd.	442
Reinforcement Bars, Epoxy Coated			Pound	35,100
Bar Splicers			Each	86

Notes:
Concrete in diaphragm is included with Concrete Superstructure.
For details of v1(E) bar see sheets 12 and 13 of 18.
For bar splicer detail see sheet 15 of 18.

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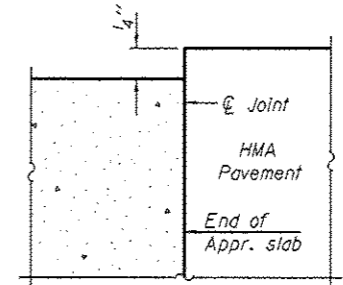
Notes:
 See sheet 9 of 18 for Sections C-C & D-D.
 See sheet 10 of 18 for Railing Connection.
 a(E) and a₁(E) bar spacings measured along \bar{C} Rdwy.



PLAN

(Shown for East Approach Slab)

* Tilt #9 b₁(E) bars as required to maintain clearancs.



FLEXIBLE PAVEMENT

DETAIL A

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(Sheet 1 of 2)

INFRASTRUCTURE ENGINEERING
 456 Fulton Street | Suite 104 | Peoria, IL 61602
 P: 309.672.8888 | F: 309.672.8889 | www.infrastructureeng.com

USER NAME :	DESIGNED - LAN	REVISED -
	CHECKED - SPK	REVISED -
PLOT SCALE :	DRAWN - LAN	REVISED -
PLOT DATE :	CHECKED - SPK	REVISED -

**PEORIA COUNTY
HIGHWAY DEPARTMENT**

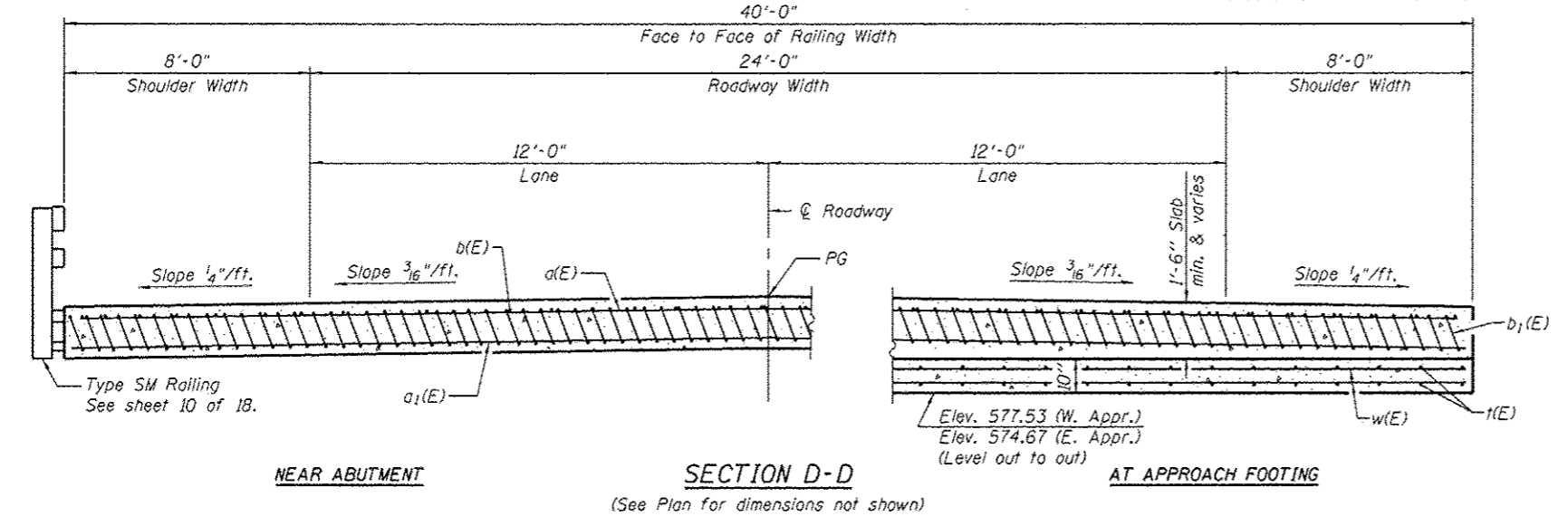
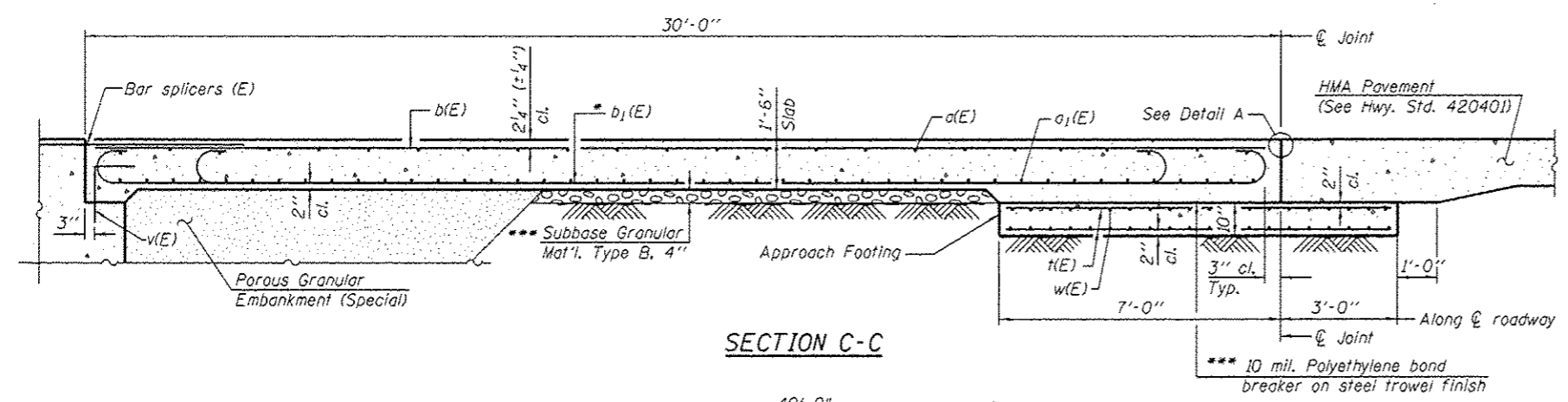
**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 072-3148**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	30
				CONTRACT NO. 89464

SHEET NO. 8 OF 18 SHEETS

ILLINOIS FED. AID PROJECT

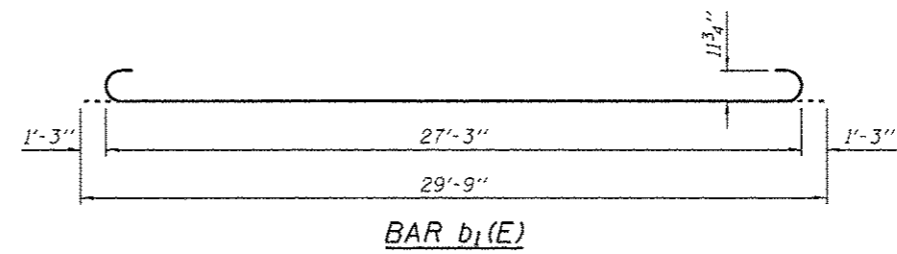
Notes:
 See sheet 8 of 18 for Detail A.
 Approach Slab concrete shall be paid for as Concrete Superstructure.
 Approach Footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 7 of 18.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 15 of 18.
 Cost of excavation for Approach Footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 18.



* Tilt #9 b₁(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	62	#4	39'-8"	—
a ₁ (E)	92	#5	39'-8"	—
b(E)	82	#4	29'-8"	—
b ₁ (E)	192	#9	29'-9"	⌒
f(E)	164	#4	9'-8"	—
w(E)	80	#5	39'-8"	—
Concrete Structures			Cu. Yd.	24.7
Concrete Superstructure			Cu. Yd.	137.8
Bridge Deck Grooving			Sq. Yd.	266
Protective Coat			Sq. Yd.	266
Reinforcement Bars, Epoxy Coated			Pound	30,860



(Sheet 2 of 2)

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INFRASTRUCTURE ENGINEERING
 456 Fulton Street | Suite 1041 Peoria, IL 61602
 P: 309.233.1060 | F: 309.233.1030 | www.infrastructureeng.com

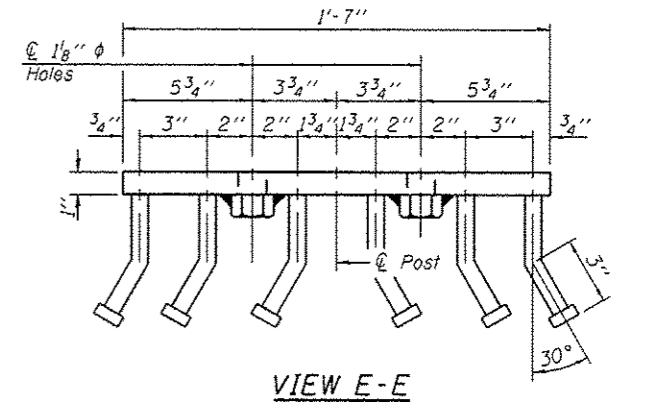
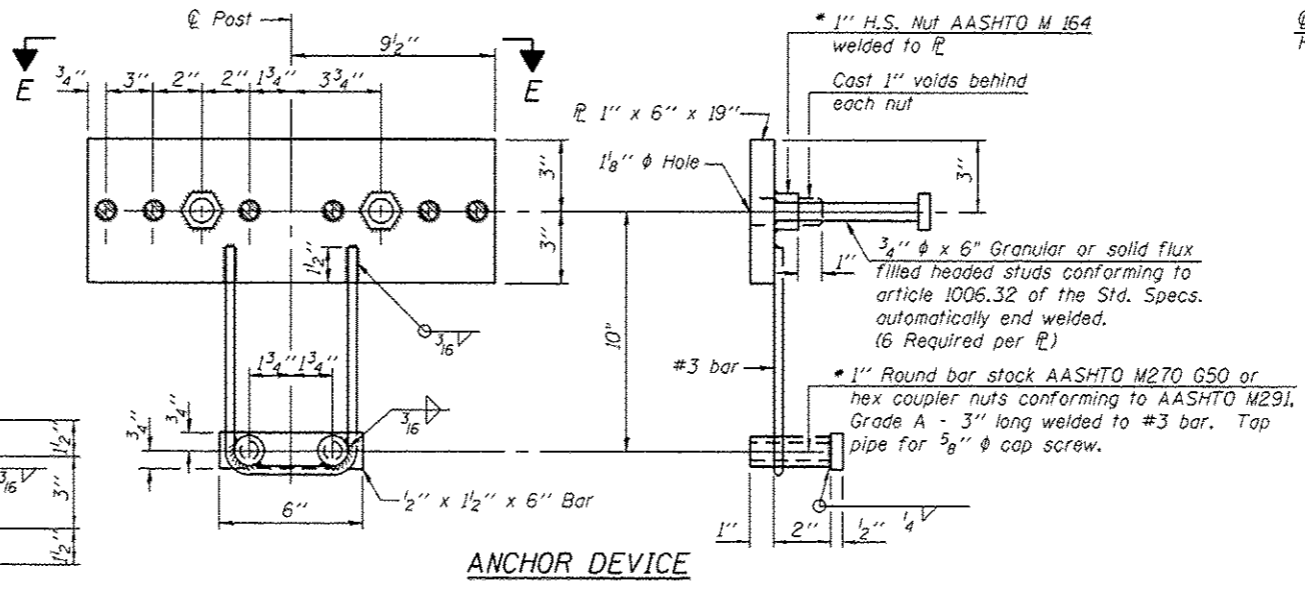
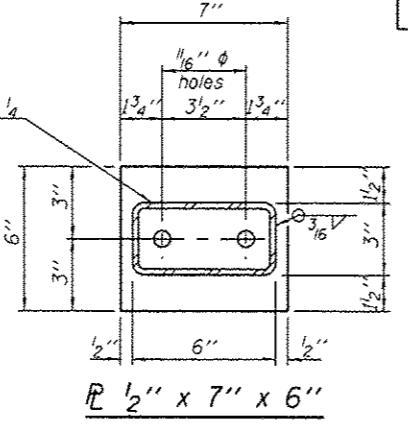
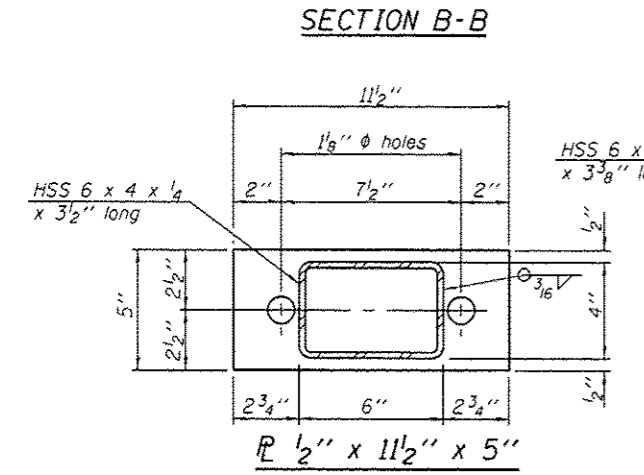
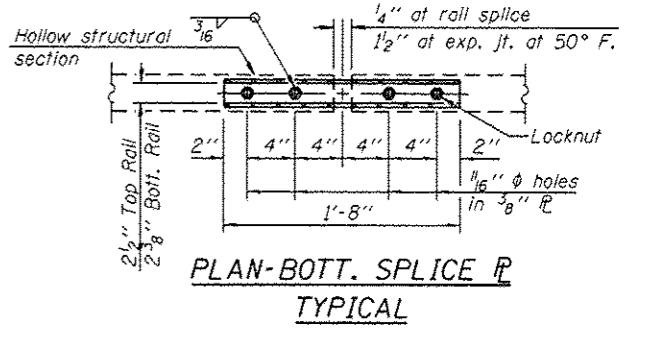
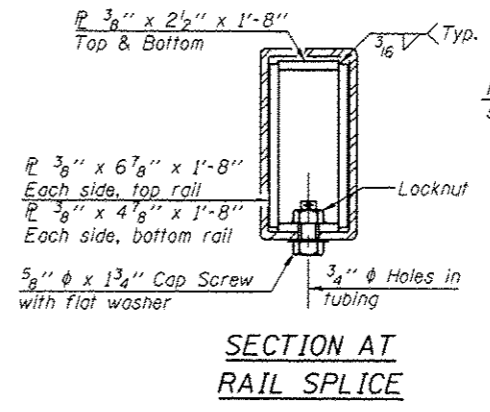
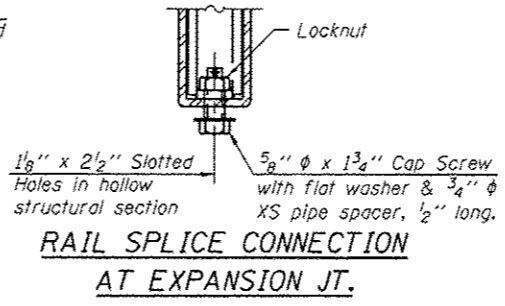
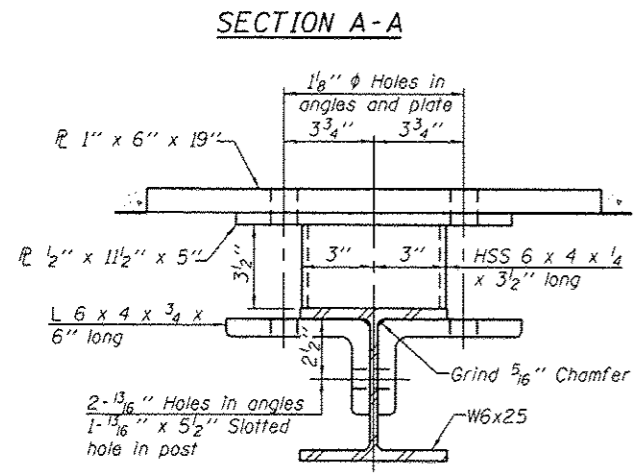
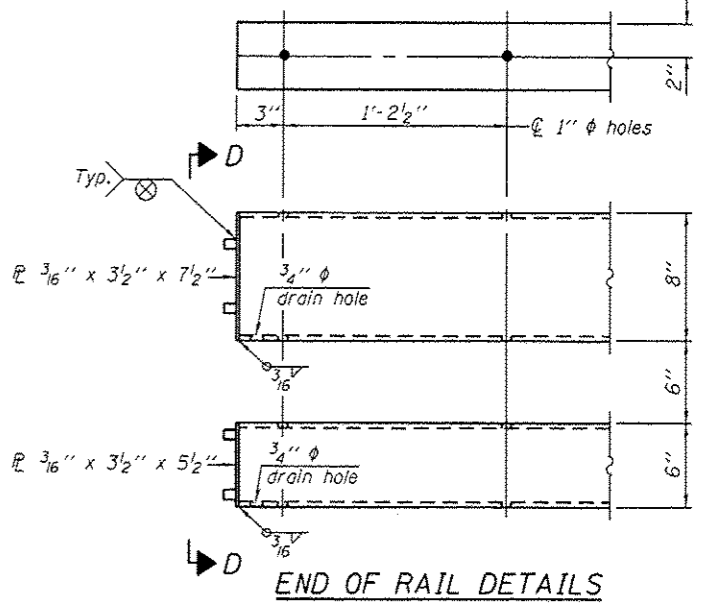
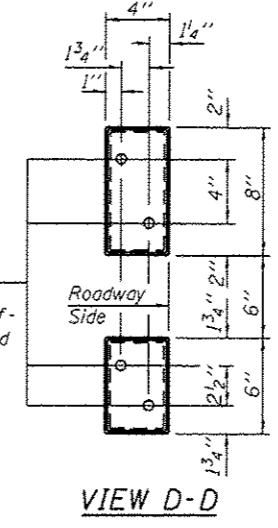
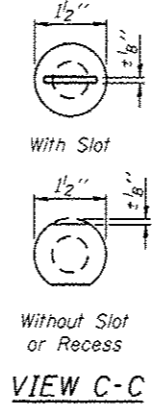
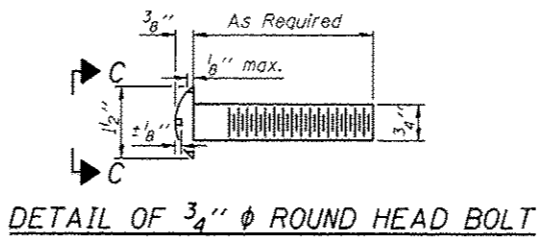
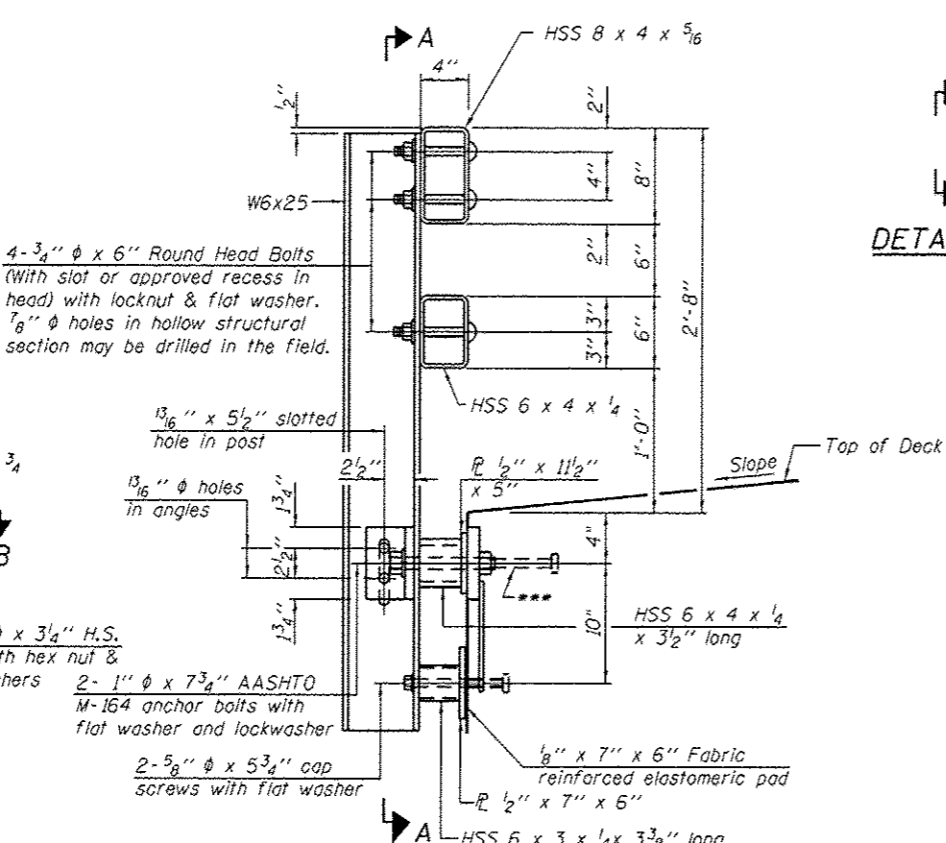
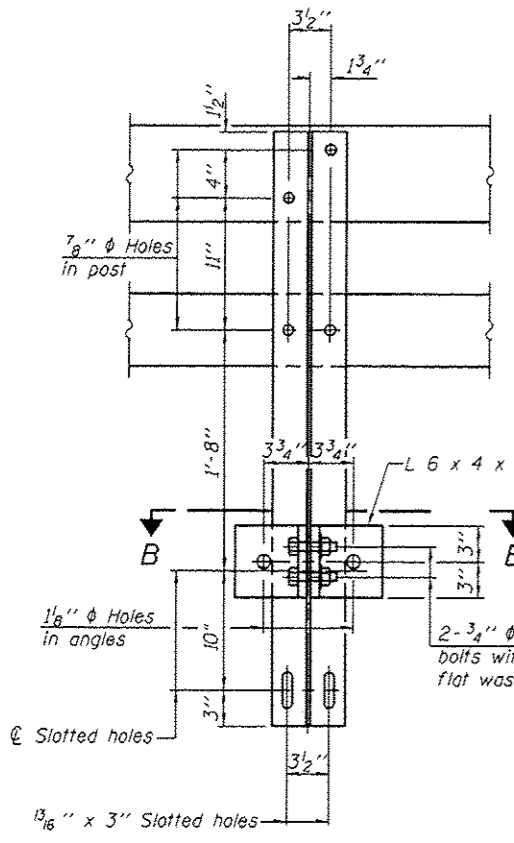
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PLOT SCALE =	CHECKED - SPK	REVISED -
PLOT DATE =	DRAWN - LAN	REVISED -
	CHECKED - SPK	REVISED -

**PEORIA COUNTY
 HIGHWAY DEPARTMENT**

**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 072-3148**

SHEET NO. 9 OF 18 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	31
CONTRACT NO. 89464			ILLINOIS FED. AID PROJECT	



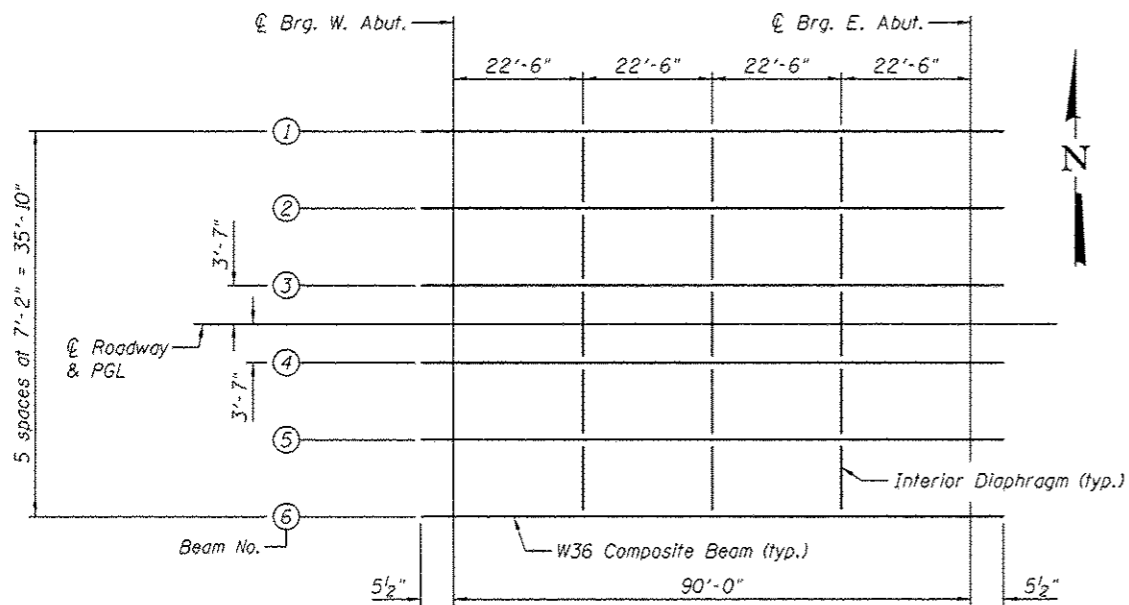
Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

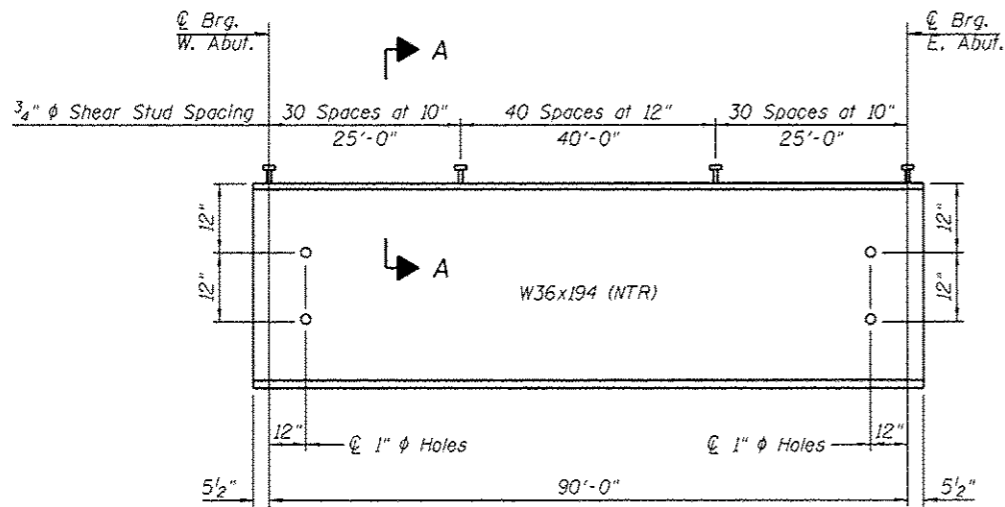
Item	Unit	Quantity
Steel Railing, Type SM	Foot	245

*Threaded areas shall be plugged or blocked off during concrete placement. Galvanized after fabrication.

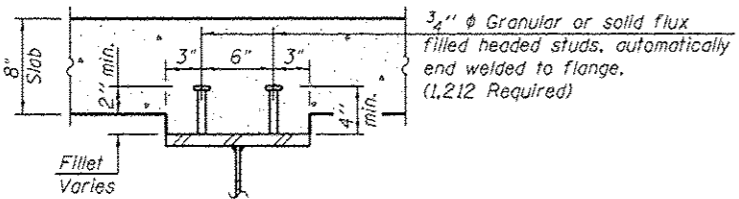
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FRAMING PLAN



BEAM ELEVATION

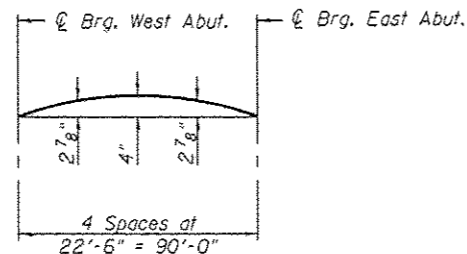


SECTION A-A

TOP OF BEAM ELEVATIONS

(For Fabrication Use Only)

Beam	℄ Brg. W. Abut.	℄ Brg. E. Abut.
1	578.49	576.70
2	578.64	576.84
3	578.75	576.96
4	578.75	576.96
5	578.64	576.84
6	578.49	576.70

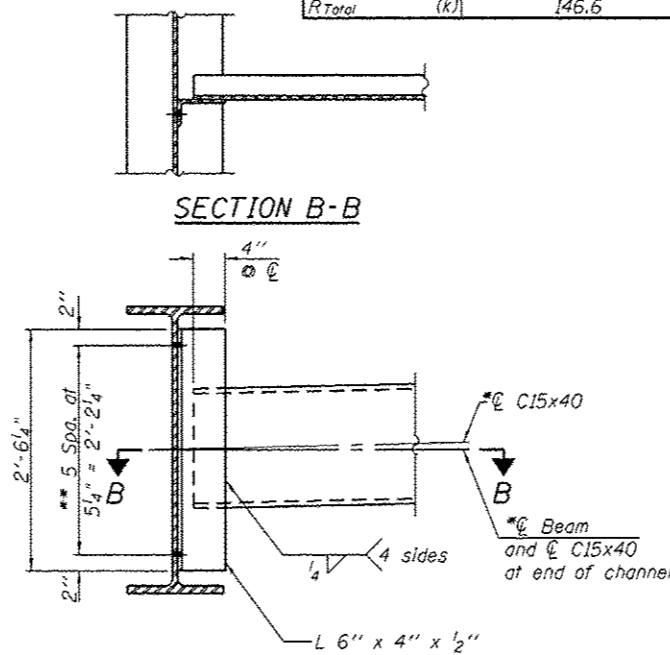


CAMBER DIAGRAM

INTERIOR BEAM MOMENT TABLE		0.5 Span
I_s	(in ⁴)	12,100
$I_c(n)$	(in ⁴)	29,075
$I_c(3n)$	(in ⁴)	21,297
S_s	(in ³)	663
$S_c(n)$	(in ³)	929
$S_c(3n)$	(in ³)	839
DC1	(k/')	0.957
MDC1	(k)	969
DC2	(k/')	0.025
MDC2	(k)	25
DW	(k/')	0.330
MDW	(k)	334
$M_L + IM$	(k)	1,362
M_u (Strength I)	(k)	4,127
$\phi_r M_n$	(k)	4,630
f_s DC1	(ksi)	17.5
f_s DC2	(ksi)	0.4
f_s DW	(ksi)	4.8
f_s 1.3(L+IM)	(ksi)	22.9
f_s (Service II)	(ksi)	45.6
0.95R _n F _y	(ksi)	47.5
f_s (Total)(Strength I)	(ksi)	-
V _r	(k)	26.1

* Compact sections
** Non-Compact and slender sections

INTERIOR BEAM REACTION TABLE		Abutment
R _{DC1}	(k)	44.0
R _{DC2}	(k)	1.1
R _{DW}	(k)	14.9
R _{L + IM}	(k)	86.6
R _{Total}	(k)	146.6

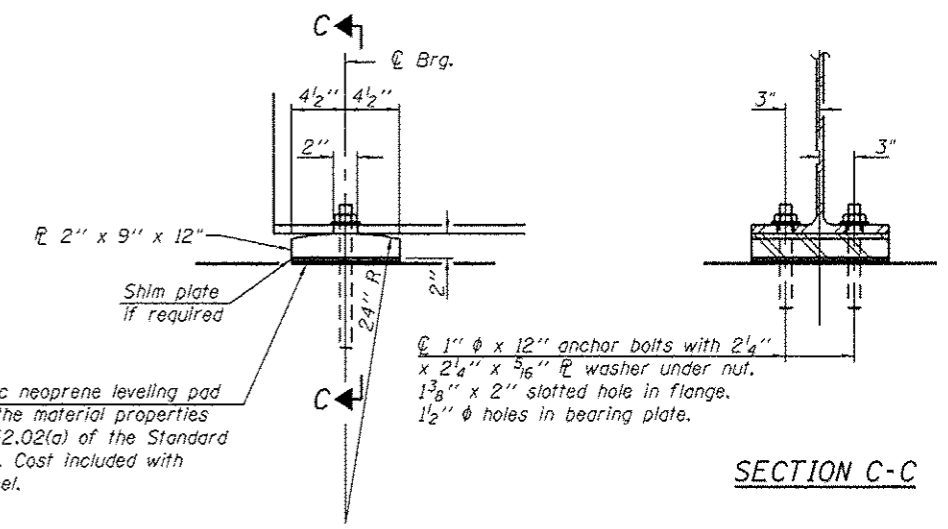


SECTION B-B

INTERIOR DIAPHRAGM

Notes:
Two hardened washers required for each set of oversized holes.
* Alternate channel C15x50 permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
The alternate, if utilized, shall be provided at no additional cost to the Department.
** 3/4" φ HS bolts. 1 5/8" φ holes.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.

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 (in⁴ and in³).
 $I_c(n), S_c(n)$: 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) due to short-term composite live loads (in⁴ and in³).
 $I_c(3n), S_c(3n)$: 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) due to long-term composite (superimposed) dead loads (in⁴ and in³).
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.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_L + IM$: Un-factored live load moment plus dynamic load allowance (Impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$
 $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
 f_s (Service II): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_L + IM$
0.95R_nF_y: 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 from the moments below on non-compact section (ksi).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$
V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



ELEVATION AT ABUTMENT

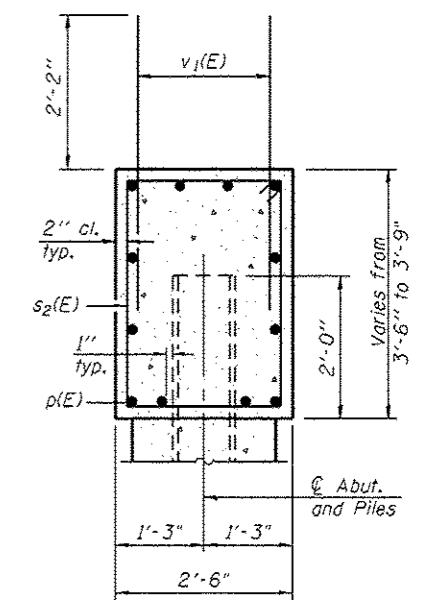
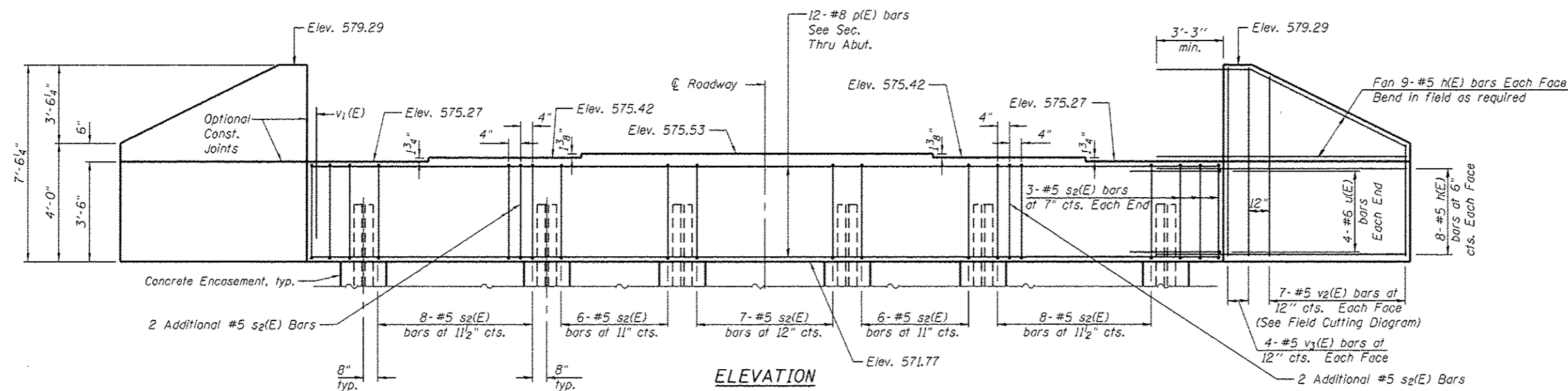
FIXED BEARING

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F_y=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts of 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.
Load carrying components designated "NTR" shall conform to the supplemental Requirements for Notch Toughness, Zone 2.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	24

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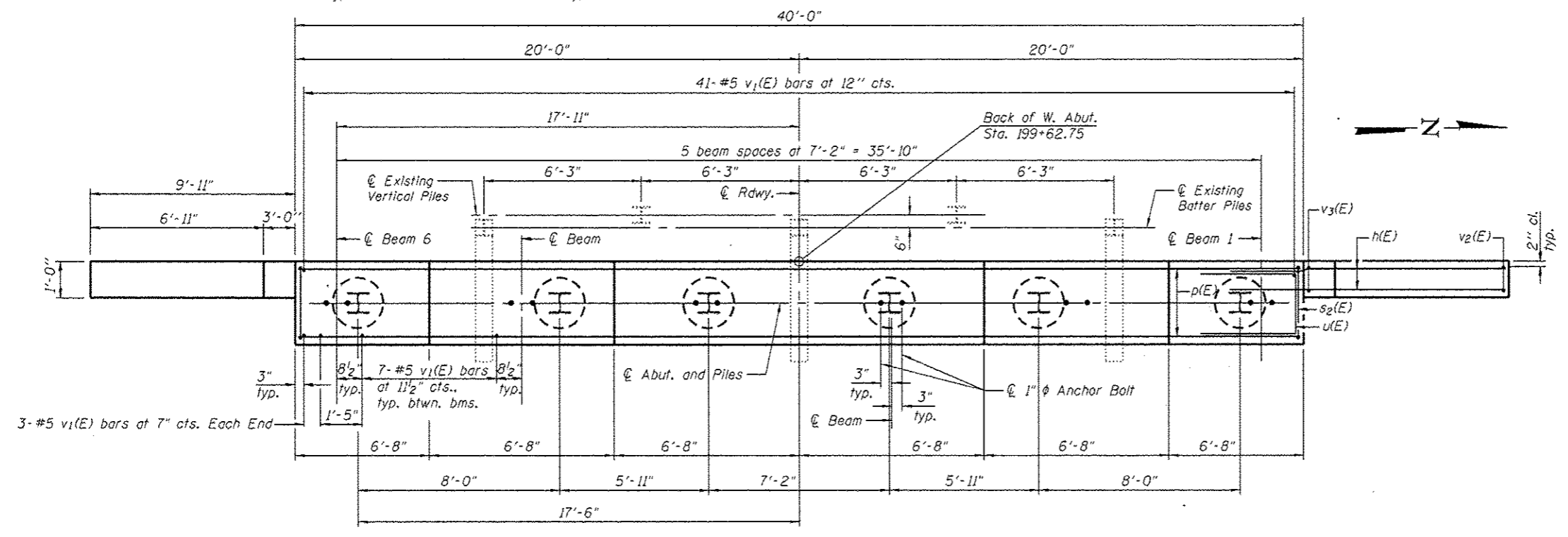
SEC. THRU ABUT.

PILE DATA
 Type: Steel HP 14x73
 Nominal Required Bearing: 578 kips
 Factored Resistance Available: 318 kips
 Est. Length: 35.0'
 No. Production Piles: 5
 No. Test Piles: 1

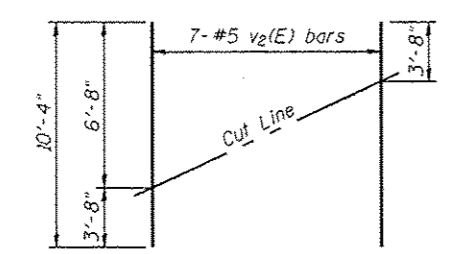
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	68	#5	13'-9"	—
p(E)	12	#8	39'-8"	—
s2(E)	45	#5	11'-7"	□
u(E)	8	#6	9'-8"	□
v1(E)	82	#5	4'-4"	—
v2(E)	14	#5	10'-4"	—
v3(E)	16	#5	7'-2"	—
Structure Excavation			Cu. Yd.	39
Concrete Structures			Cu. Yd.	18.1
Concrete Encasement			Cu. Yd.	3.3
Reinforcement Bars, Epoxy Coated			Pound	3,550
Furnishing Steel Piles HP14x73			Foot	175.0
Driving Piles			Foot	175.0
Test Pile Steel HP14x73			Each	1

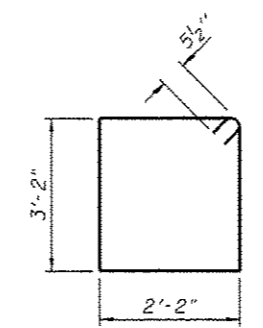
Notes:
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet 14 of 18.



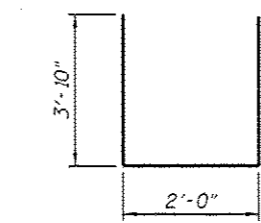
PLAN



FIELD CUTTING DIAGRAM
 Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

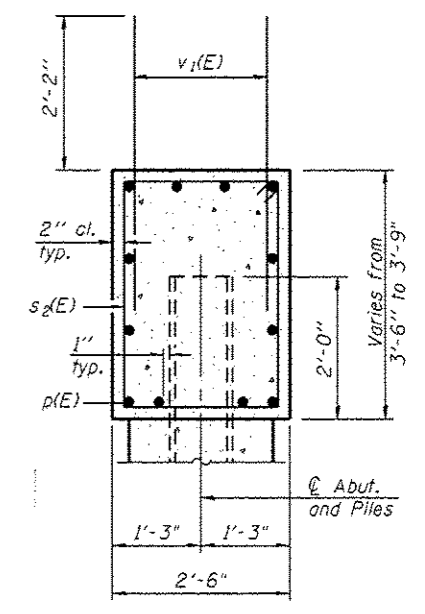
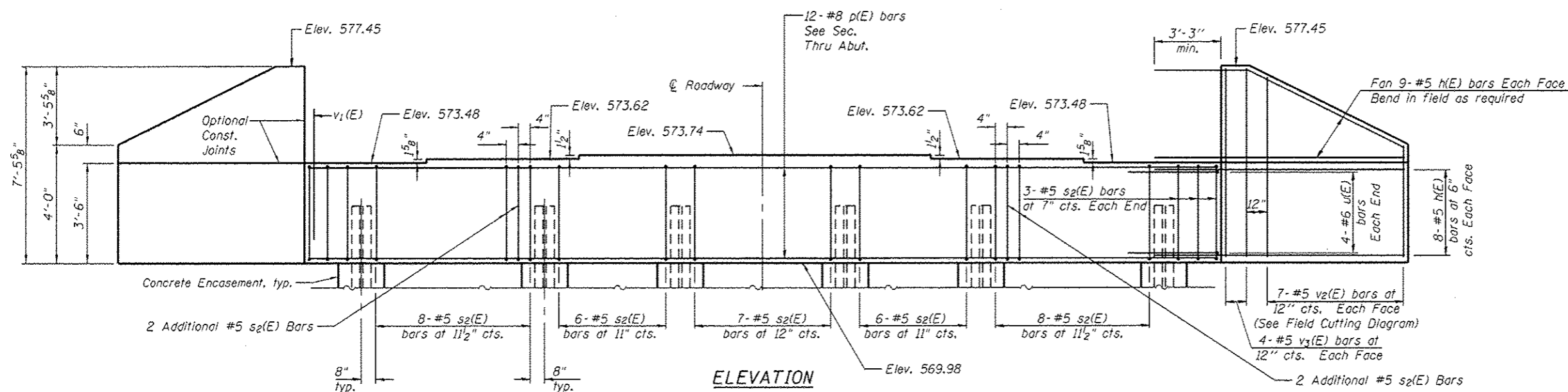


BAR s2(E)



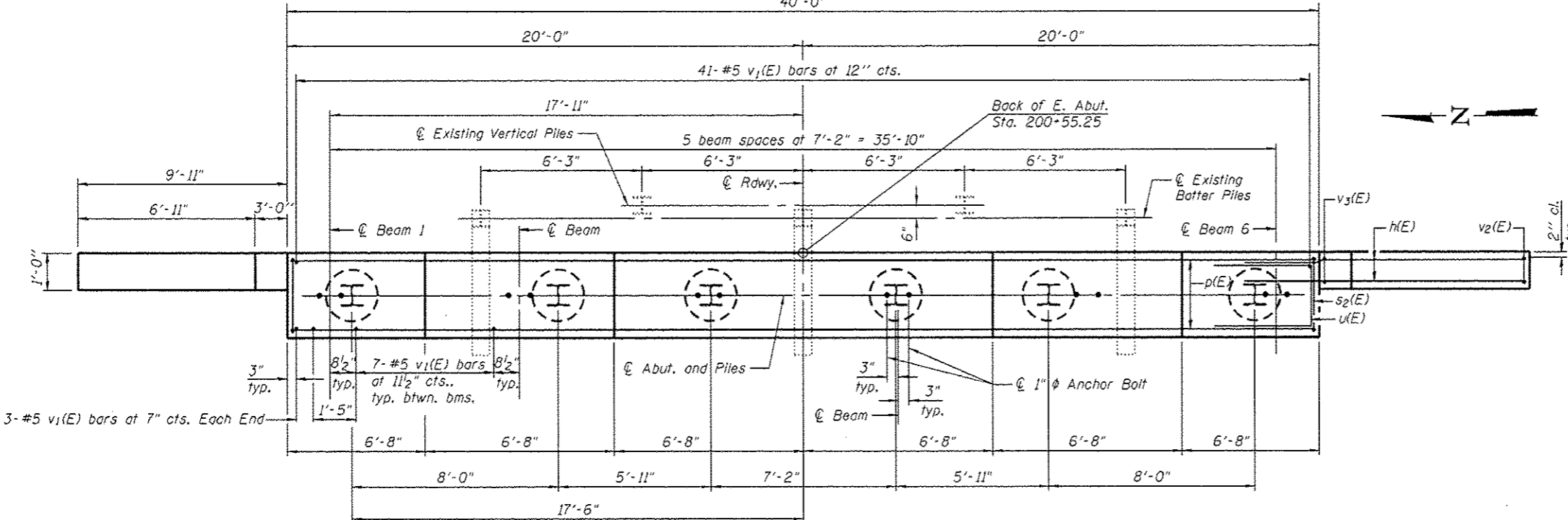
BAR u(E)

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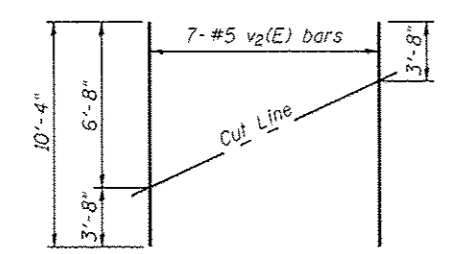


SEC. THRU ABUT.

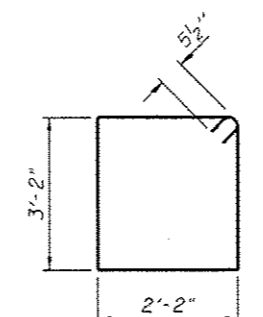
PILE DATA
 Type: Steel HP 14x73
 Nominal Required Bearing: 578 kips
 Factored Resistance Available: 318 kips
 Est. Length: 38.3'
 No. Production Piles: 5
 No. Test Piles: 1



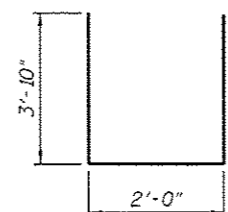
PLAN



FIELD CUTTING DIAGRAM
 Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



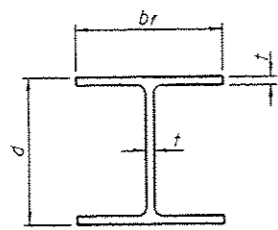
BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	68	#5	13'-9"	—
p(E)	12	#8	39'-8"	—
s2(E)	45	#5	11'-7"	U
u(E)	8	#6	9'-8"	U
v1(E)	82	#5	4'-4"	—
v2(E)	14	#5	10'-4"	—
v3(E)	16	#5	7'-2"	—
Structure Excavation			Cu. Yd.	38
Concrete Structures			Cu. Yd.	18.1
Concrete Encasement			Cu. Yd.	3.3
Reinforcement Bars, Epoxy Coated			Pound	3,550
Furnishing Steel Piles HP14x73			Foot	191.5
Driving Piles			Foot	191.5
Test Pile Steel HP14x73			Each	1

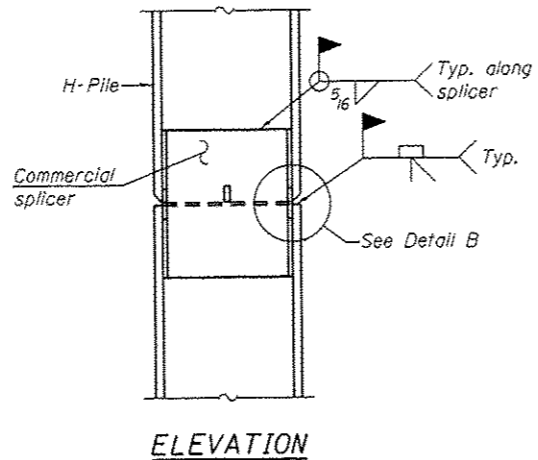
Notes:
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet 14 of 18.

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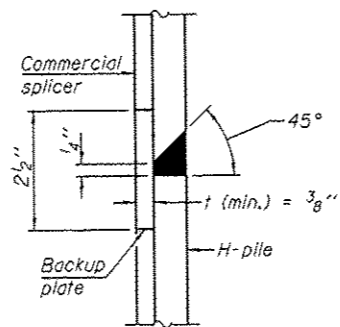


STEEL PILE TABLE

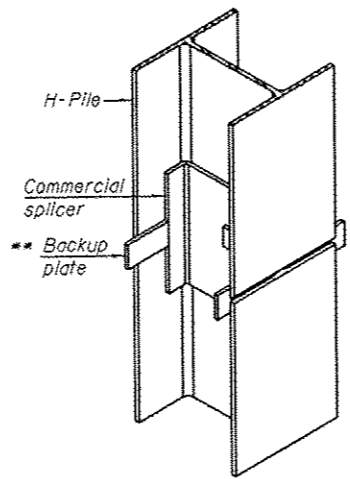
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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

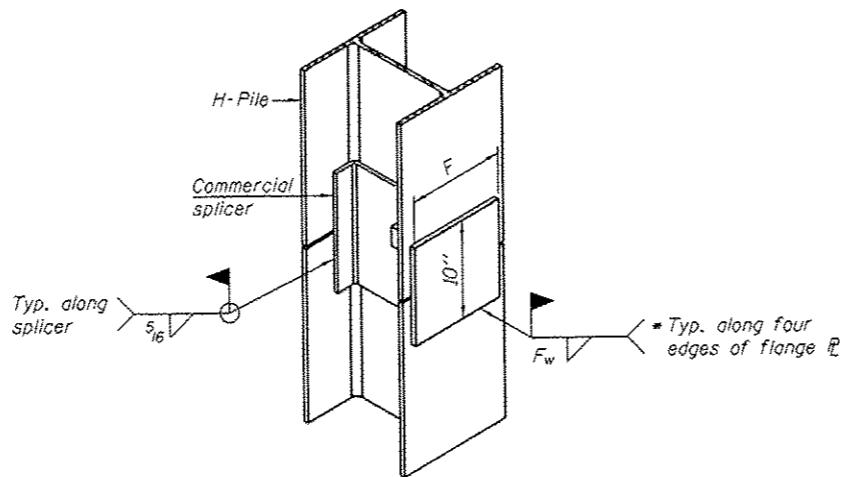


DETAIL "B"



ISOMETRIC VIEW

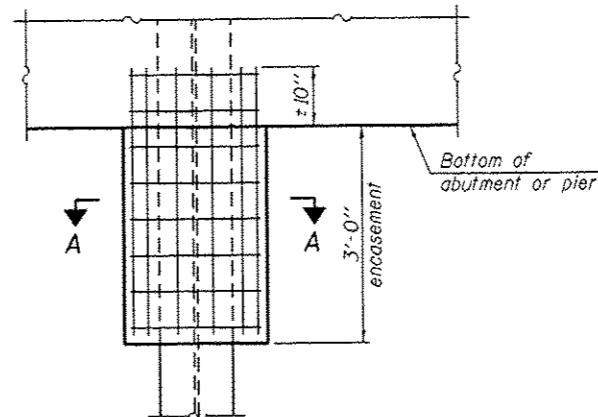
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

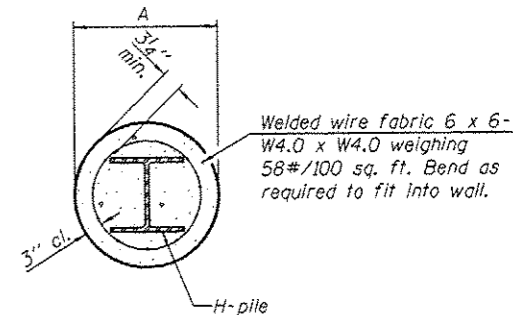
WELDED COMMERCIAL SPLICE ALTERNATE

- 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.).



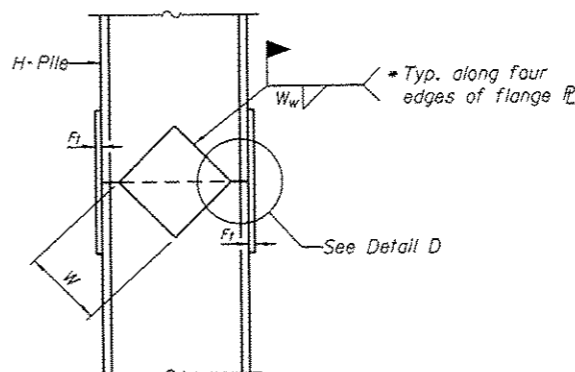
ELEVATION

PILE ENCASEMENT



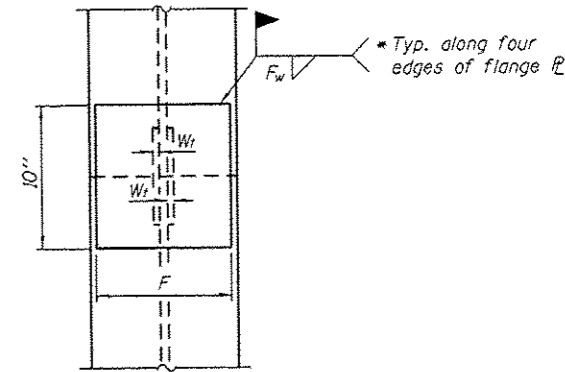
SECTION A-A

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



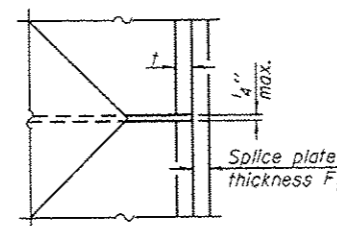
ELEVATION

WELDED PLATE FIELD SPLICE



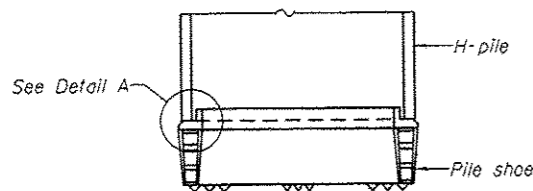
END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



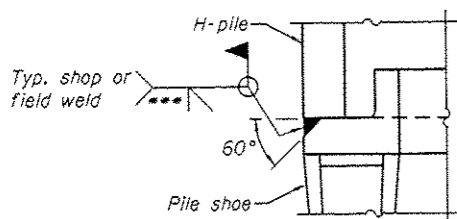
DETAIL D

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



ELEVATION

H-PILE SHOE ATTACHMENT

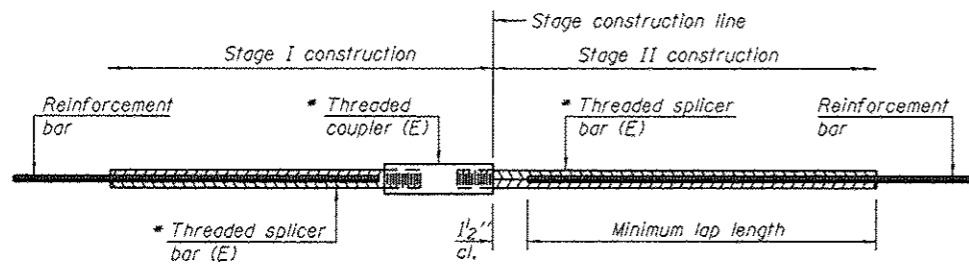


DETAIL A

F-HP 7-1-10

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INFRASTRUCTURE ENGINEERING 456 Fullon Street Suite 104 Peoria, IL 61602 P: 309.251.2000 F: 309.251.2011 www.ine.com	DESIGNED -	REVISD -	PEORIA COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 072-3148		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -	REVISD -		1381	10-00005-03-BR	PEORIA	55	36		
	PLOT SCALE =	DRAWN - LAN		REVISD -	SHEET NO. 14 OF 18 SHEETS		CONTRACT NO. 89464		ILLINOIS FED. AID PROJECT	
	PLOT DATE =	CHECKED - SPK		REVISD -						



STANDARD BAR SPLICER ASSEMBLY

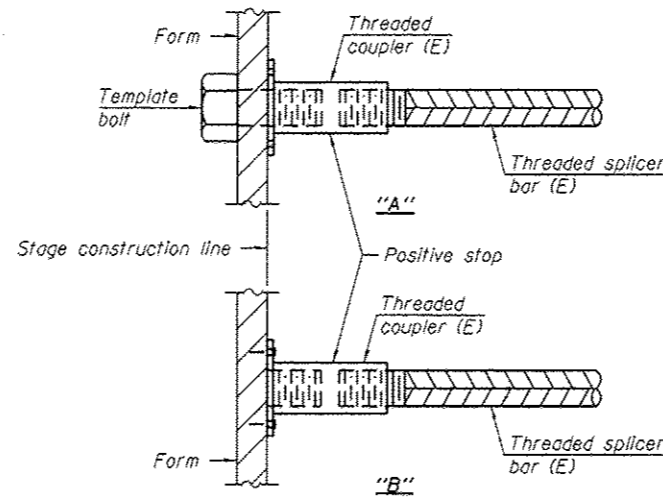
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

Threaded splicer bar length = min. lap length + 1/2" + thread length

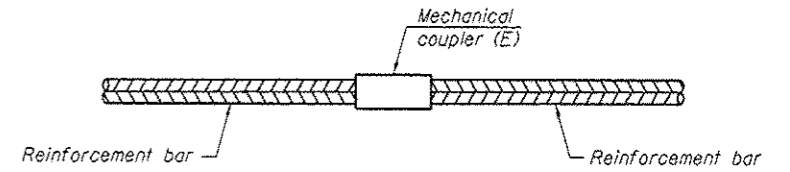
- Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



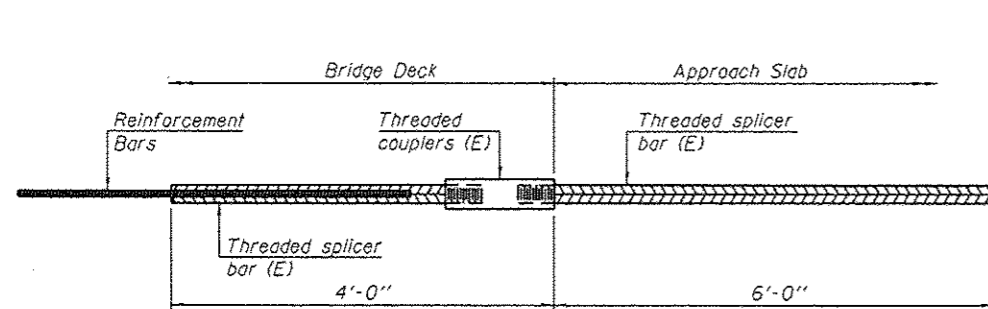
INSTALLATION AND SETTING METHODS

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



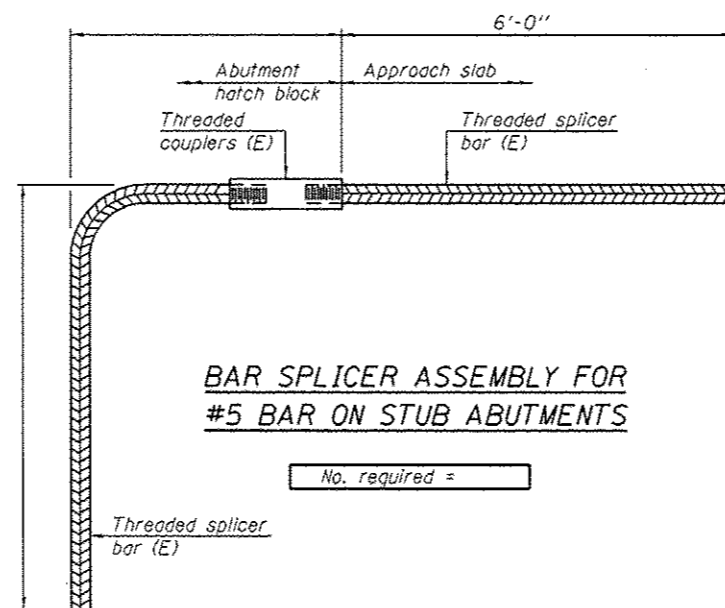
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required = 86



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 50B of the Standard Specifications.
- See special provision for Mechanical Splicers.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BORING NO. B-01
DATE: 08-08-10
W. & A. FILE NO.: 5427
SHEET 1 OF 6

WHITNEY & ASSOCIATES
INCORPORATED
2408 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT: SMITHVILLE ROAD BRIDGE OVER COOPERAS CREEK
LOCATION: Peoria County, Illinois
BORING LOCATION: 1/4 West of West Abutment, S. South of North Parapet
RELIEF BY: F-81
SPRING TYPE: Hollow Stem Auger
WEATHER CONDITIONS: Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM: U.S.B.S.C.
SEAFLOOR WATER PENOMETER AT ELEVATION: (-)333.5 FT
GROUND SURFACE ELEVATION: 579.6
GROUND WATER ELEVATION AT: FT
BORING DISCONTINUED AT ELEVATION: 532.1
GROUND WATER ELEVATION AT GROUND LEVEL: (-)20.2 FT

DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)	DEPTH (IN FEET)
DESCRIPTION	DEPTH (IN FEET)	SAMPLE TYPE	N	Qc	Qv	D ₁	M _c
BITUMINOUS CONCRETE	11.5'						
Brown, CA-6 SAND AND GRAVEL	23'						
Loose, Brown, Fine- To Coarse-Grained SAND AND FINE-GRAINED GRAVEL WITH SOME SILTY CLAY (Fill)		SS	3				3
	575.6		4(7)				
Medium, Gray-Brown And Light Brown SILTY CLAY (Fill)		SS	2	0.0	0.8	92	28
	672.6		2(4)				
Stiff, Light Brown And Gray SILT (Fill)		SS	2	1.7	1.5		20
	670.1		4(7)				
Stiff, Gray-Brown, Light Brown And Dark Brown SILTY CLAY LOAM WITH SOME WOOD (Fill)		SS	3	1.4	1.2	101	16
	599.1		4(7)				
Medium, Gray-Brown And Dark Brown CLAY LOAM (Possible Fill)		SS	2	0.8	0.6		25
	565.6		2(4)				
Soft, Gray-Brown CLAY LOAM WITH SOME COARSE-GRAINED SAND (Possible Fill)		SS	1	0.7	0.5	96	24
	562.8		1(2)				
Medium, Light Brown And Gray CLAY LOAM		SS	1	1.1	0.8		22
	560.1		2(4)				
Medium, Light Brown And Gray CLAY		SS	1	0.7	0.7	93	26
	557.6		2(4)				
Stiff, Dark Gray CLAY (Glacial Till)		SS	4	2.0	1.6		19
			5(9)				
			4				
			5	2.2	1.9	115	17
			6(11)				

N - BLOW COUNT PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPIN SAMPLE
ST - SHELLY TUBE SAMPLE
Qc - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qv - UNCONSOLIDATED COMPRESSION STRENGTH - T.S.F.
D₁ - NATURAL DRY DENSITY - P.C.F.
M_c - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING LOG
(CONTINUATION)

BORING NO. B-01
DATE: 08-08-10
PROJECT: Smithville Road Bridge Over Cooperas Creek
LOCATION: Peoria County, Illinois
SHEET 2 OF 6
W. & A. FILE NO.: 5427

DESCRIPTION	DEPTH (IN FEET)	SAMPLE TYPE	N	Qc	Qv	D ₁	M _c
See Sheet 1 of 6	552.6		4				
Stiff, Dark Gray SILTY CLAY (Glacial Till)		SS	4	1.8	1.6		17
			5(9)				
		SS	4	1.5	1.3	113	18
			6(10)				
Very Dense, Dark Gray, Medium- To Coarse-Grained SAND AND FINE-GRAINED GRAVEL WITH CONSIDERABLE SILTY CLAY	546.1						
	34	SS	65/6'				
Medium, Dark Gray And Gray SANDY CLAY AND NEAR CLAY SHALE	541.6						
	38						
		SS	8	2.0	1.4	111	17
			14				
			16(20)				
CAP ROCK	537.8						
Hard, Gray SANDSTONE	536.1						
		SS	99/6'	4.5+			11
AUSER REFUSAL AT (-)47.5 FEET	532.1						
EXPLORATORY BORING DISCONTINUED							
	50						
	54						

N - BLOW COUNT PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPIN SAMPLE
ST - SHELLY TUBE SAMPLE
Qc - CALIBRATED PENETROMETER READING - T.S.F. FALLING 30 INCHES
Qv - UNCONSOLIDATED COMPRESSION STRENGTH - T.S.F.
D₁ - NATURAL DRY DENSITY - P.C.F.
M_c - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

FILE NAME : #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	SOIL BORING LOGS	SCALE: NTS	SHEET NO. 16 OF 18 SHEETS	STA. TO STA.	F.A.S. RTE. 1381	SECTION 10-0005-03-BR	COUNTY PEORIA	TOTAL SHEETS 55	SHEET NO. 38
USER NAME : IEI	DRAWN - AJP	REVISED -						CONTRACT NO. 89464				
PLOT SCALE : 2,000' / in.	CHECKED - MOC	REVISED -						ILLINOIS FED. AID PROJECT				
PLOT DATE : 10/29/2012	DATE - 11/02/2012	REVISED -										

BORING NO. B-02
DATE: 08-08-10
W & A FILE NO. 6427
SHEET 3 OF 6

WHITNEY & ASSOCIATES
INCORPORATED
2106 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT: SMITHVILLE ROAD BRIDGE OVER COOPERAS CREEK
LOCATION: Peoria County, Illinois
NO. 1 LOCATION: 53' East of West Abutment, 7' South of North Parapet
DRILLED BY: Fehi
LOGGING TYPE: Hollow Stem Auger
WEATHER CONDITIONS: Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM: U.S.B.S.C.
SEEPAGE WATER ENCOUNTERED AT ELEVATION: (-)20.0 Ft. (30' depth)
GROUND SURFACE ELEVATION: 578.6
GROUND WATER ELEVATION AT: HBW
BORING DISCONTINUED AT ELEVATION: 531.1
GROUND WATER ELEVATION AT COMPLETION: (-)20.0 FL (30' depth)

DEPTH IN FEET	DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q _n	Q ₁	D _s	M _s
0-3.5'	BITUMINOUS CONCRETE							
3.5-19'	CONCRETE (BRIDGE DECK)							
04								
08								
12								
16								
20	CREEK BED (21.5 FEET)	567.1						
	Medium, Dark Gray SILTY CLAY		SS	2 2 3(5)	0.9	0.8		27
24	Stiff, Dark Gray SILTY CLAY	554.6	SS	2 3 4(7)	1.2	1.1	96	25

N - BLOW COUNT PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SFL T-SPONG SAMPLE
ST - SHELL TUBE SAMPLE
Q_n - CALIBRA T-140 SLOTTED TUBE READING - T.S.F.
Q₁ - UNCONFIRMED CONFINED-SIVE STRENGTH - T.S.F.
D_s - NATURAL DRY DENSITY - P.C.F.
M_s - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING LOG
(CONTINUATION)

BORING NO. B-02
PROJECT: Smithville Road Bridge Over Cooperas Creek
LOCATION: Peoria County, Illinois


DATE: 09-08-10
SHEET: 4 OF 6
W & A FILE NO. 6427

DEPTH IN FEET	DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Q _n	Q ₁	D _s	M _s
551.0	See Sheet 3 of 6			2 2 2(4)	1.1	0.9		18
547.1	Medium, Dark Gray SILTY CLAY (Glacial Till)		SS	2 2 3(5) 9 10 15(25)	1.3	1.0	111	19
544.8	Stiff, Dark Gray SANDY CLAY (Glacial Till)		SS	15 16 16(32)	1.5	1.2		19
540.1	Dense, Dark Gray, Medium-Grained SAND And SILTY CLAY With Trace Of Coal		SS	8 9 16(25)				21
536.6	Medium-Density, Dark Gray, Medium-Grained SAND With Considerable Silty Clay And Trace Of Coal		SS	8 9 16(25)				19
531.1	Hard, Gray CAP ROCK		SS	125(3)				7
531.1	AUGER REFUSAL AT (-)47.5 FEET EXPLORATORY BORING DISCONTINUED							
50								
54								

N - BLOW COUNT PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SFL T-SPONG SAMPLE
ST - SHELL TUBE SAMPLE
Q_n - CALIBRA T-140 SLOTTED TUBE READING - T.S.F.
Q₁ - UNCONFIRMED CONFINED-SIVE STRENGTH - T.S.F.
D_s - NATURAL DRY DENSITY - P.C.F.
M_s - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

BORING NO. B-03
DATE: 09-08-10
W.S.A. FILE NO.: 5427
SHEET 5 OF 6



WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT: SMITHVILLE ROAD BRIDGE OVER COOPERAS CREEK LOCATION: Peoria County, Illinois
BORING LOCATION: S' East of East Abutment; E' North of South Parapet DT. LOC. BY: Fehi
BORING TYPE: Hollow Stem Auger WEATHER CONDITIONS: Partly Cloudy & Mild
SPT CLASSIFICATION SYSTEM: U.S.B.C. WET/DRY: (-)19.0 FT
GROUND SURFACE ELEVATION: 577.7 GROUND WATER ELEVATION AT COMPLETION: 530.7
BORING DISCONTINUED AT ELEVATION: 530.7 GROUND WATER ELEVATION AT COMPLETION: (-)14.5 Ft.

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	D ₅₀	M _c
DRIVE CHIPS	2"						
BITUMINOUS CONCRETE	11"						
Brown CA-6 GRAVEL	21"						
Loose, Brown And Dark Brown, Fine- To Coarse-Grained SAND And Fine-Grained GRAVEL (Fill)	573.7	SS	3 3(0)	-	-	-	3
Stiff, Light Brown SILTY CLAY (Fill)		SS	3 3 4(7)	2.3	1.8	101	18
570.7							
Medium, Dark Brown SILTY CLAY LOAM (Fill)	588.2	SS	2 2(4)	0.9	0.8	-	26
588.2							
Medium, Brown And Dark Brown SILTY CLAY (Fill)	666.7	SS	2 2 3(6)	1.1	0.9	96	25
666.7							
Medium, Brown And Gray-Brown SANDY CLAY With Trace Of Fine-Grained Gravel (Fill)	683.2	SS	2 2(4)	0.7	0.6	-	17
683.2							
Loose, Light Brown, Fine- To Medium-Grained SAND	680.7	SS	2 2(4)	-	-	-	9
680.7							
Loose, Gray Brown, Medium- To Coarse-Grained SAND And Fine-Grained GRAVEL With Trace Of Silty Clay	659.2	SS	2 3(5)	-	-	-	14
659.2							
Stiff, Brown And Gray-Brown CLAY (Glacial Till)	20	SS	3 4(7) 3	1.3	1.1	112	21
		SS	3 4 5(9)	1.4	1.2	-	20
		SS	3 4 5(10)	1.2	1.1	113	20

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - Shelby Tube Sample

Q_p - CALIBRATED PENETROMETER READING - T.S.F.
Q_c - UNCONFIRMED COMPRESSION STRENGTH - T.S.F.
D₅₀ - NATURAL SIZE D₅₀ BY S.F.E.
M_c - NATURAL MOISTURE CONTENT %

BORING NO. B-03
DATE: 09-08-10
W.S.A. FILE NO.: 5427
SHEET 6 OF 6

BORING LOG
(CONTINUATION)

PROJECT: Smithville Road Bridge Over Cooperas Creek
LOCATION: Peoria County, Illinois

DATE: 09-08-10
SHEET: 6 OF 6
W.S.A. FILE NO.: 5427

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qc	D ₅₀	M _c
See Sheet 5 of 6	600.7		3 3 4(7)	1.0	0.9	-	19
Medium, Dark Gray SILTY CLAY (Glacial Till)		SS					
548.2							
Stiff, Dark Gray SILTY CLAY (Glacial Till)	30	SS	4 5 6(11)	1.3	1.2	115	17
544.7							
Janez, Dark Gray Fine- To Coarse-Grained SAND With Considerable Silty Clay And Some Fine-Grained Gravel	34	SS	12 17 24(41)	-	-	-	16
540.2							
Dense, Dark Gray, Medium- To Coarse Grained SAND And Fine-Grained GRAVEL With Considerable Silty Clay	38						
538.2							
Medium, Brown And Gray-Brown SANDY CLAY With Trace Of Fine-Grained Gravel (Fill)	42	SS	15 18 25(43)	-	-	-	18
534.7							
Hard, Gray SHALE							
AUGER REFUSAL AT (-)47.0 FEET	46	SS	7 1/3"	4.5+	-	-	9
532.7							
EXPLORATORY BORING DISCONTINUED							

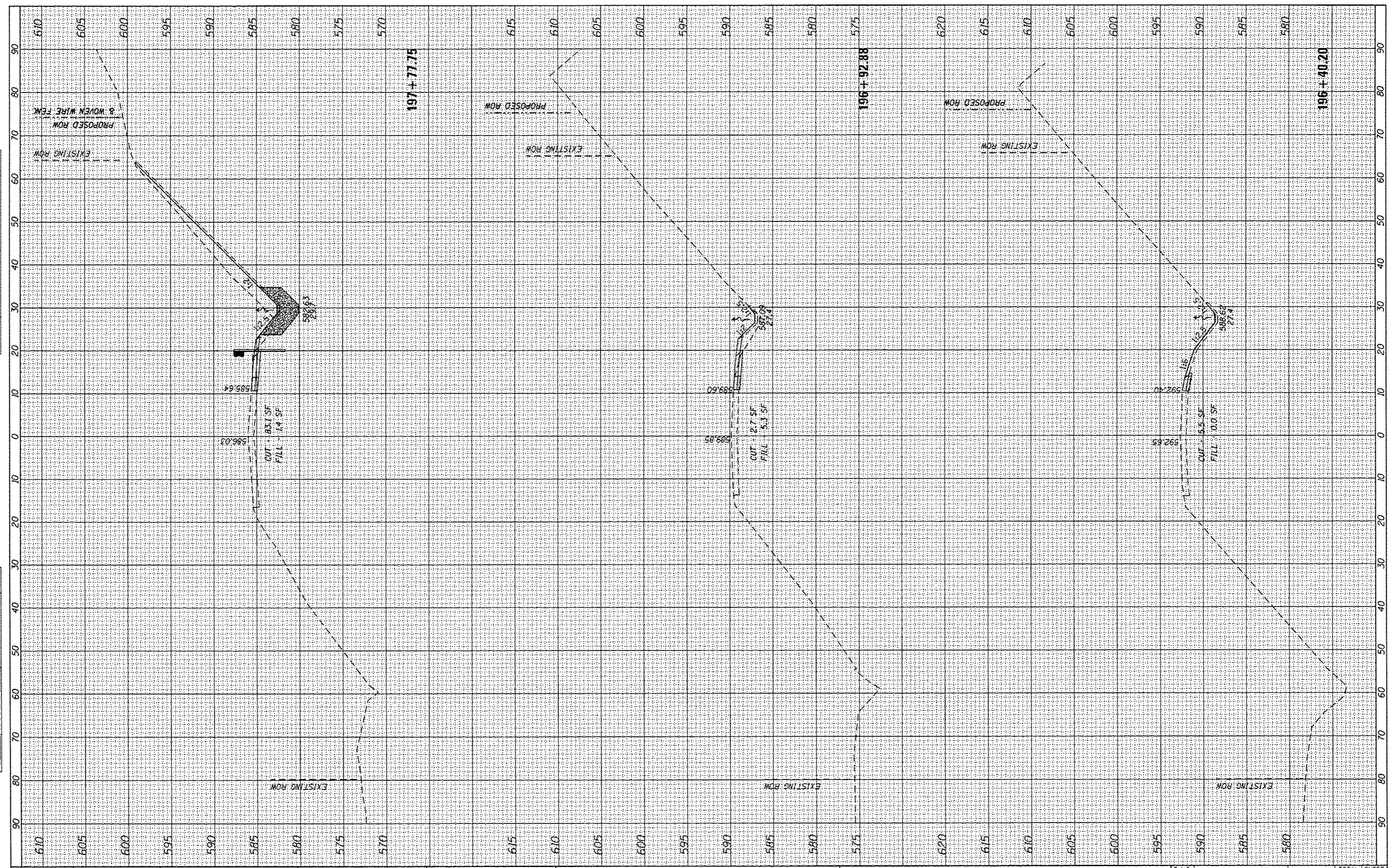
N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - Shelby Tube Sample

Q_p - CALIBRATED PENETROMETER READING - T.S.F.
Q_c - UNCONFIRMED COMPRESSION STRENGTH - T.S.F.
D₅₀ - NATURAL SIZE D₅₀ BY S.F.E.
M_c - NATURAL MOISTURE CONTENT %

DATE	BT
NO.	NO.
AREAS CHECKED	AREAS CHECKED
NOTE BOOK	NOTE BOOK
PLANNED	PLANNED
SURVEYED	SURVEYED

INFRASTRUCTURE ENGINEERING
 158 Ridge Street | Suite 104 | Peoria, IL 61614
 TEL: 309.271.7800 FAX: 309.271.7801

DATE	BT
NO.	NO.
AREAS CHECKED	AREAS CHECKED
NOTE BOOK	NOTE BOOK
PLANNED	PLANNED
SURVEYED	SURVEYED



FILE NAME	USER NAME = JCI
#FILE#	DESIGNED - AJP
Default	DRAWN - AJP
	CHECKED - BAR
	DATE - 11/02/2012
	REVISIONS
	REVISED -
	REVISED -
	REVISED -
	REVISED -

DESIGNED - AJP	REVISIONS
DRAWN - AJP	REVISED -
CHECKED - BAR	REVISED -
DATE - 11/02/2012	REVISED -

DESIGNED - AJP	REVISIONS
DRAWN - AJP	REVISED -
CHECKED - BAR	REVISED -
DATE - 11/02/2012	REVISED -

PEORIA COUNTY HIGHWAY DEPARTMENT

CROSS SECTIONS

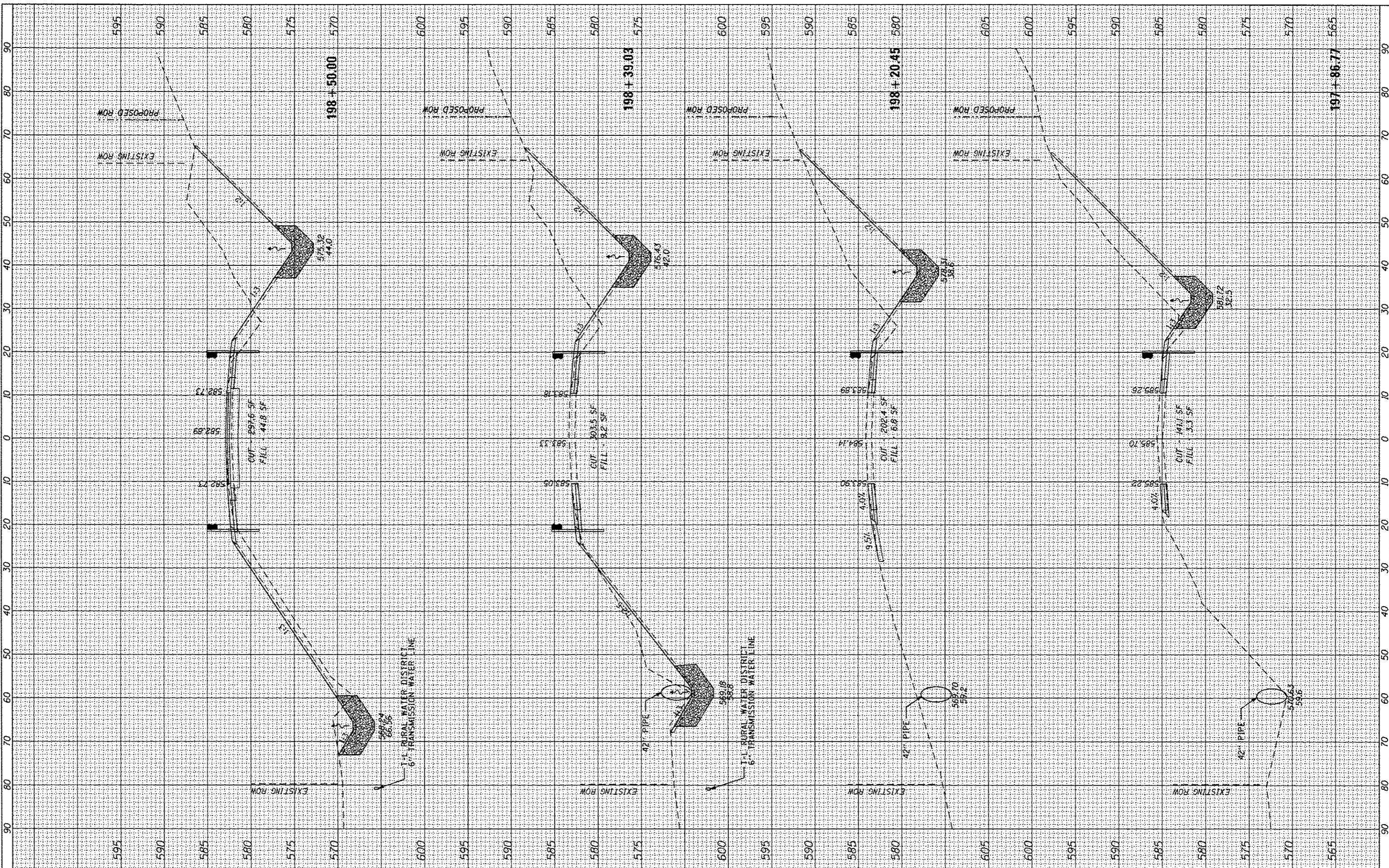
SCALE: 10H : 5V SHEET 1 OF 6 SHEETS STA. 196+40.20 TO STA. 197+77.75

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-0005-03-BR	PEORIA	55	41
CONTRACT NO. 89464			ILLINOIS FED. AID PROJECT	

DATE	BY

INFRASTRUCTURE
ENGINEERING
438 North Street, Suite 201 | Peoria, IL 61602
PH: 309.671.7100 | FAX: 309.671.7101

DATE	BY



FILE NAME :	USER NAME = IEI
#FILE# :	DESIGNED - AJP
	DRAWN - AJP
	CHECKED - BAR
	DATE - 11/02/2012

**PEORIA COUNTY
HIGHWAY DEPARTMENT**

CROSS SECTIONS

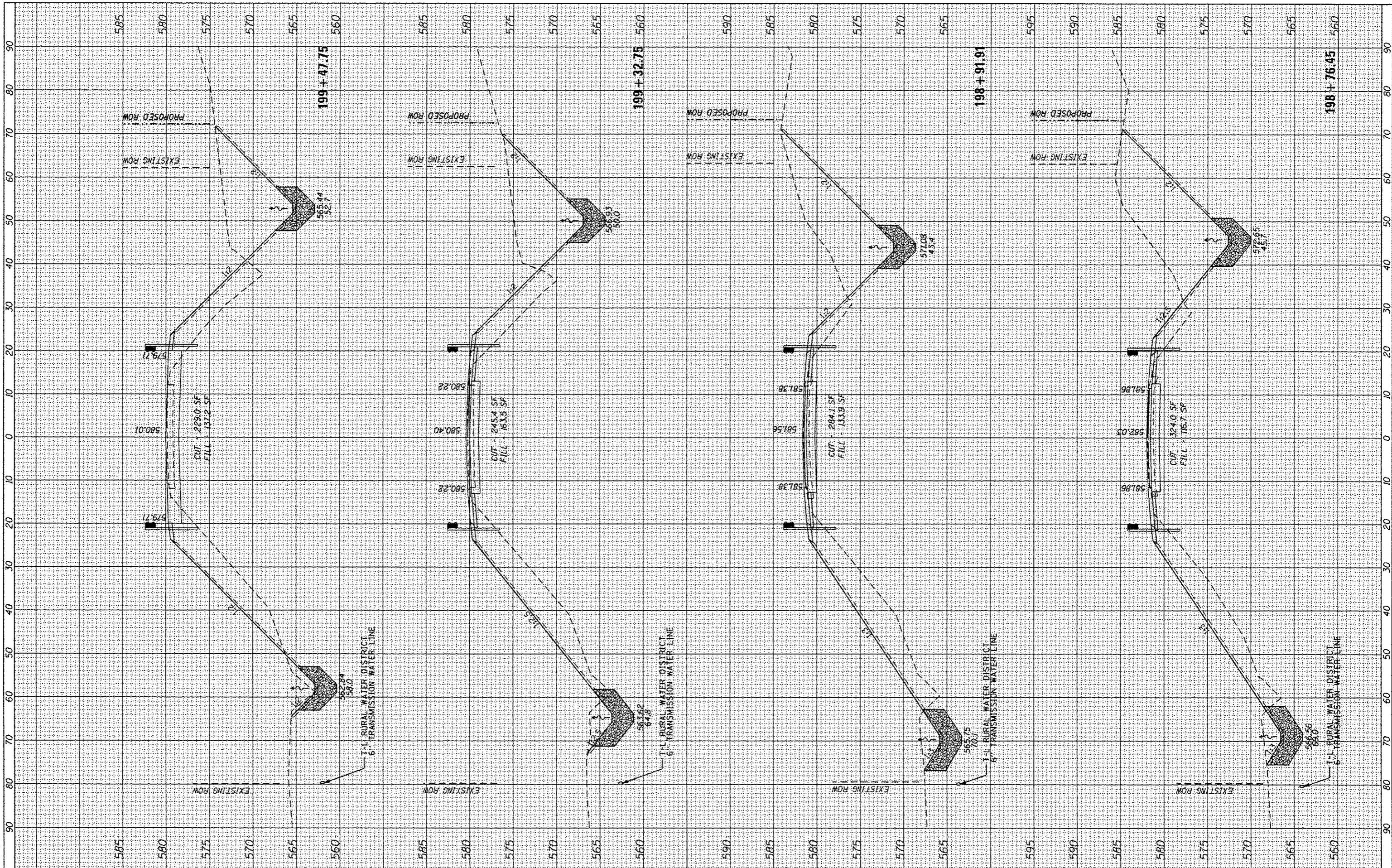
SCALE: 10H : 5V SHEET 2 OF 6 SHEETS STA. 197+86.77 TO STA. 198+50.00

F.A.S. RTE. 1301	SECTION 10-00005-03-BR	COUNTY PEORIA	TOTAL SHEETS 55	SHEET NO. 42
CONTRACT NO. 89464				ILLINOIS FED. AID PROJECT

DATE	
BT	
NO.	
AREAS CHECKED	
AREAS	
TEMPLATE	
PLOTTED	
EXPANDED	
FINAL SURVEY	
NOTE BOOK	

INFRASTRUCTURE ENGINEERING
 1000 S. UNIVERSITY AVENUE, SUITE 100
 PEORIA, ILLINOIS 61614
 PHONE: 309.671.1111
 FAX: 309.671.1112
 WWW: WWW.IE-ILLINOIS.COM

DATE	
BT	
NO.	
AREAS CHECKED	
AREAS	
TEMPLATE	
PLOTTED	
EXPANDED	
ORIGINAL SURVEY	
NOTE BOOK	



FILE NAME :
 #FILE#
 Default

USER NAME : IEI
 PLOT SCALE = 20.0000' / 1" =
 PLOT DATE = 10/28/2012

DESIGNED - AJP
 DRAWN - AJP
 CHECKED - BAR
 DATE - 11/02/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

PEORIA COUNTY HIGHWAY DEPARTMENT

CROSS SECTIONS

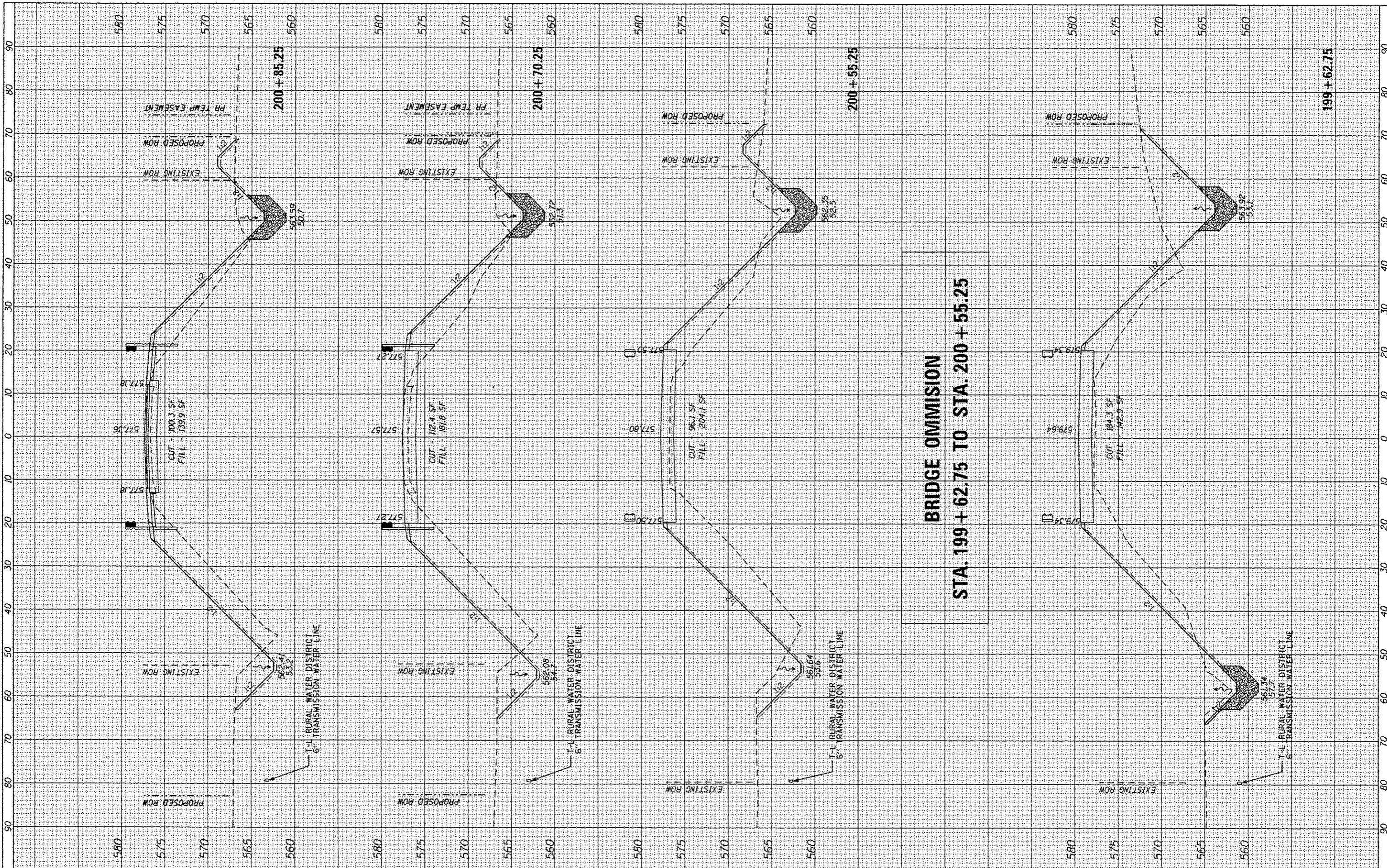
SCALE: 10H : 5V SHEET 3 OF 6 SHEETS STA. 198+76.45 TO STA. 199+47.75

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	43
CONTRACT NO. 89464			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED	
NO. OF SHEETS	
DATE	
BY	
FINISHED	
NO. OF SHEETS	

INFRASTRUCTURE
ENGINEERING
 1500 N. State Street, Peoria, IL 61603
 TEL: 309.676.7000 FAX: 309.676.7001

DATE	
BY	
FINISHED	
NO. OF SHEETS	
DATE	
BY	
FINISHED	
NO. OF SHEETS	



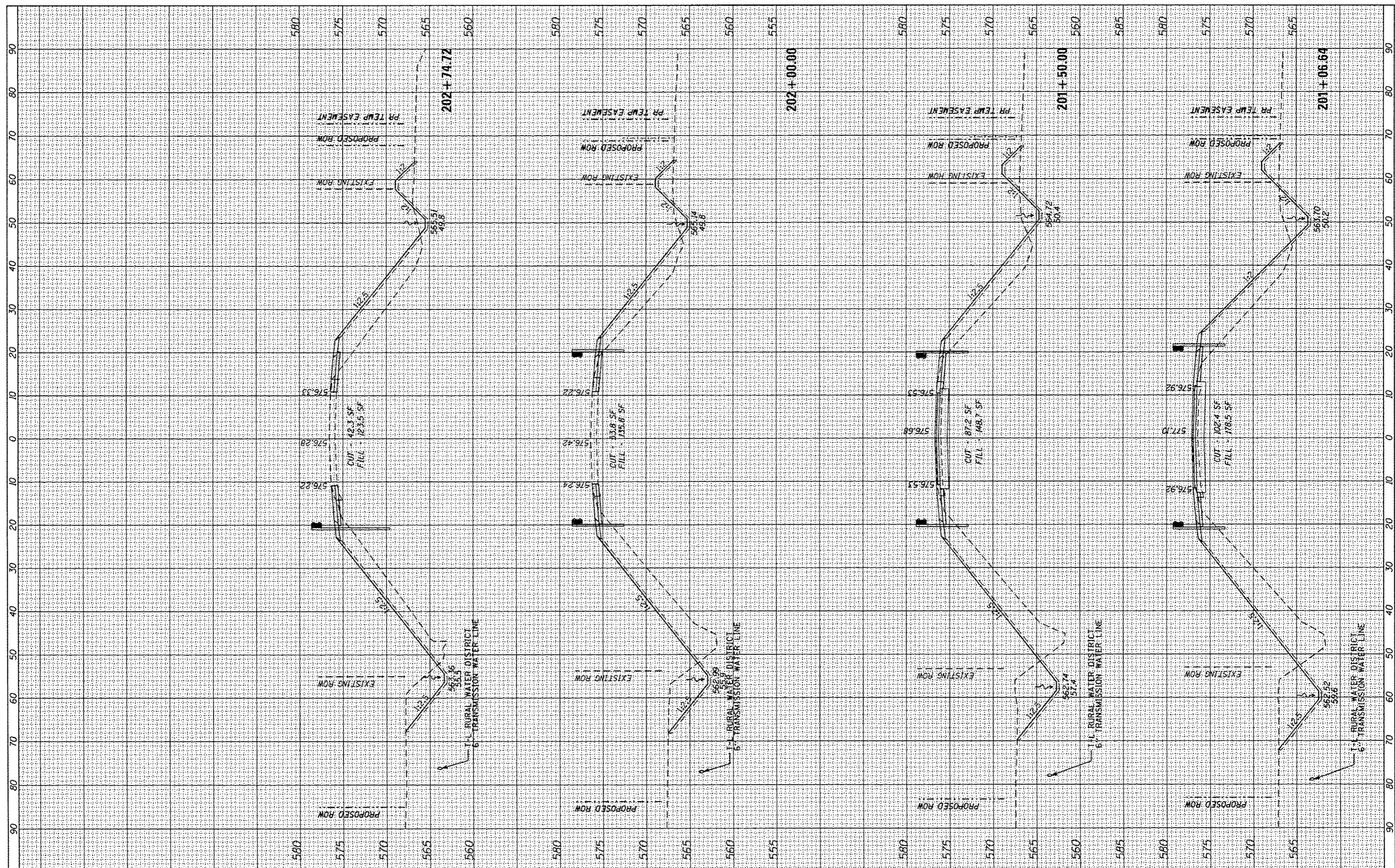
BRIDGE OMISSION
STA. 199 + 62.75 TO STA. 200 + 55.25

FILE NAME :	USER NAME = IEI	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	CROSS SECTIONS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	DRAWN - AJP	REVISOR - BAR	REVISIONS			1381	10-0005-03-BR	PEORIA	55	44
Default	PLOT SCALE = 20.0000' / 1" =	CHECKED - BAR	REVISIONS			STA. 199+62.75 TO STA. 200+85.25		CONTRACT NO. 89464		
	PLOT DATE = 10/28/2012	DATE = 11/02/2012	REVISIONS			SCALE: 10H : 5V SHEET 4 OF 6 SHEETS		ILLINOIS FED. AID PROJECT		

FINN	DATE
SURVEY	
NOTED	
PLANNED	
DESIGNED	
CHECKED	
BY	



ORIGINAL	DATE
SURVEY	
NOTED	
PLANNED	
DESIGNED	
CHECKED	
BY	



FILE NAME =
 #FILE#
 Default

USER NAME = IEI
 PLOT SCALE = 28.0000' / in.
 PLOT DATE = 10/28/2012

DESIGNED - AJP
 DRAWN - AJP
 CHECKED - BAR
 DATE - 11/02/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

**PEORIA COUNTY
 HIGHWAY DEPARTMENT**

CROSS SECTIONS

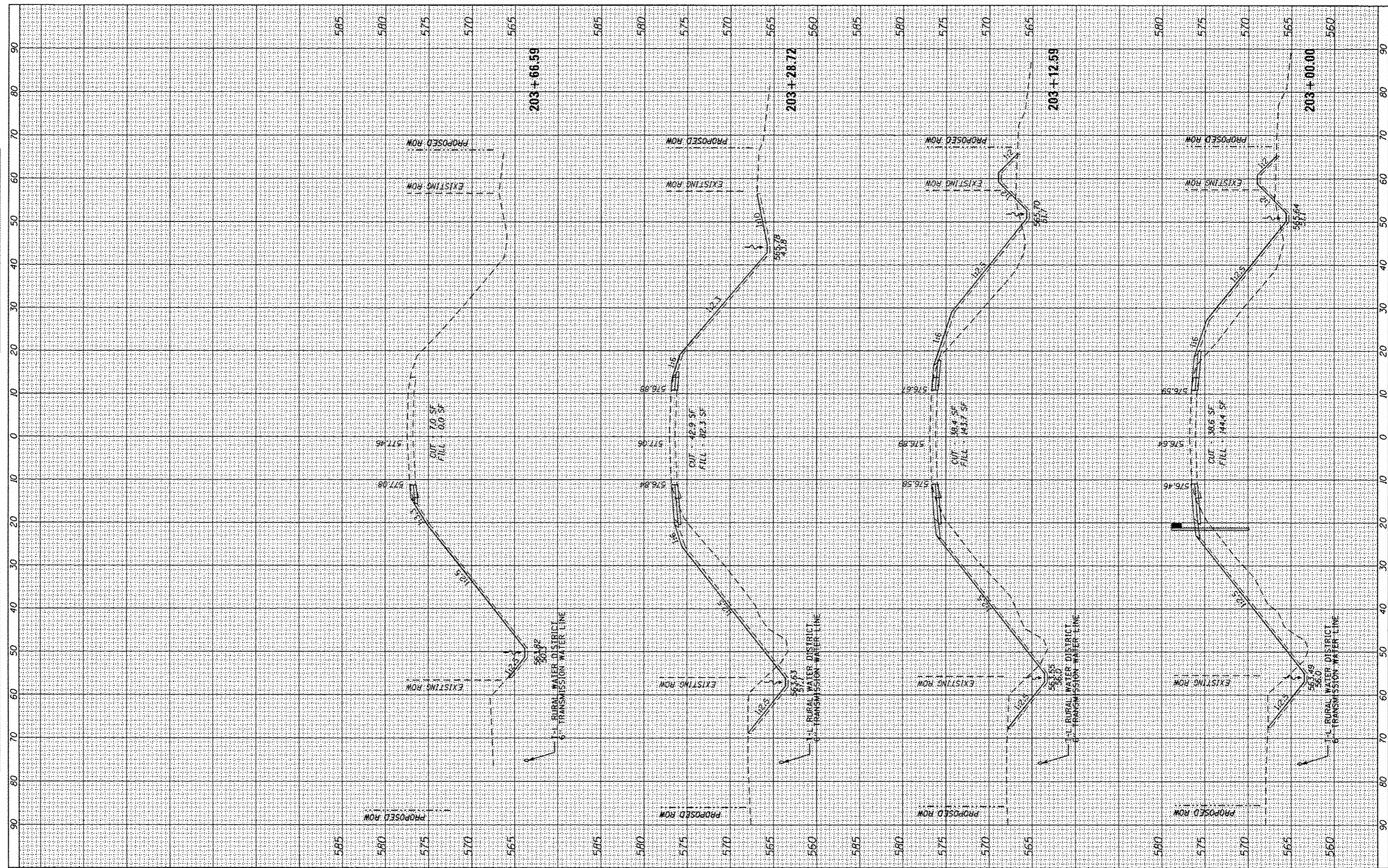
SCALE: 10H : 5V SHEET 5 OF 6 SHEETS STA. 201+06.64 TO STA. 202+74.72

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	45
CONTRACT NO. B9464				
ILLINOIS FED. AID PROJECT				

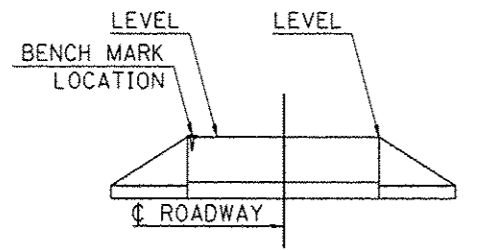
FINISHED SURVEY	DATE
CHECKED	BY
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

INFRASTRUCTURE ENGINEERING
 48 HILLS STREET, SUITE 301, PEORIA, IL 61611
 (309) 696-1111

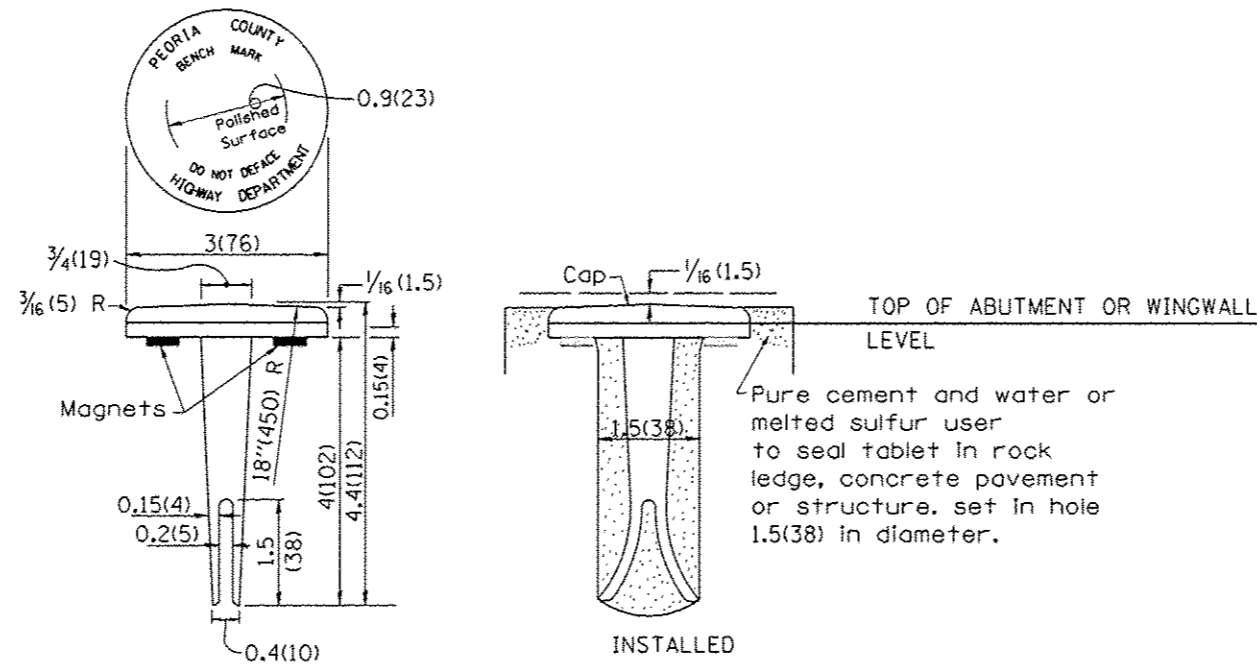
ORIGINAL SURVEY	DATE
CHECKED	BY
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	



FILE NAME :	USER NAME : IEI	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT	CROSS SECTIONS	F.A.S. RTE. 1381	SECTION 10-00005-03-BR	COUNTY PEORIA	TOTAL SHEETS 55	SHEET NO. 46		
#FILE# :	DESIGNED - AJP	DRAWN - AJP	REVISED -			SCALE: 10H : 5V	SHEET 6 OF 6 SHEETS	STA. 203+00.00 TO STA. 203+66.59	CONTRACT NO. 89464			
Default	PLOT SCALE = 20.0000' / 1" =	CHECKED - BAR	REVISED -			ILLINOIS FED. AID PROJECT						
	PLOT DATE = 10/28/2012	DATE - 11/02/2012	REVISED -									



TYPICAL BRIDGE LOCATION



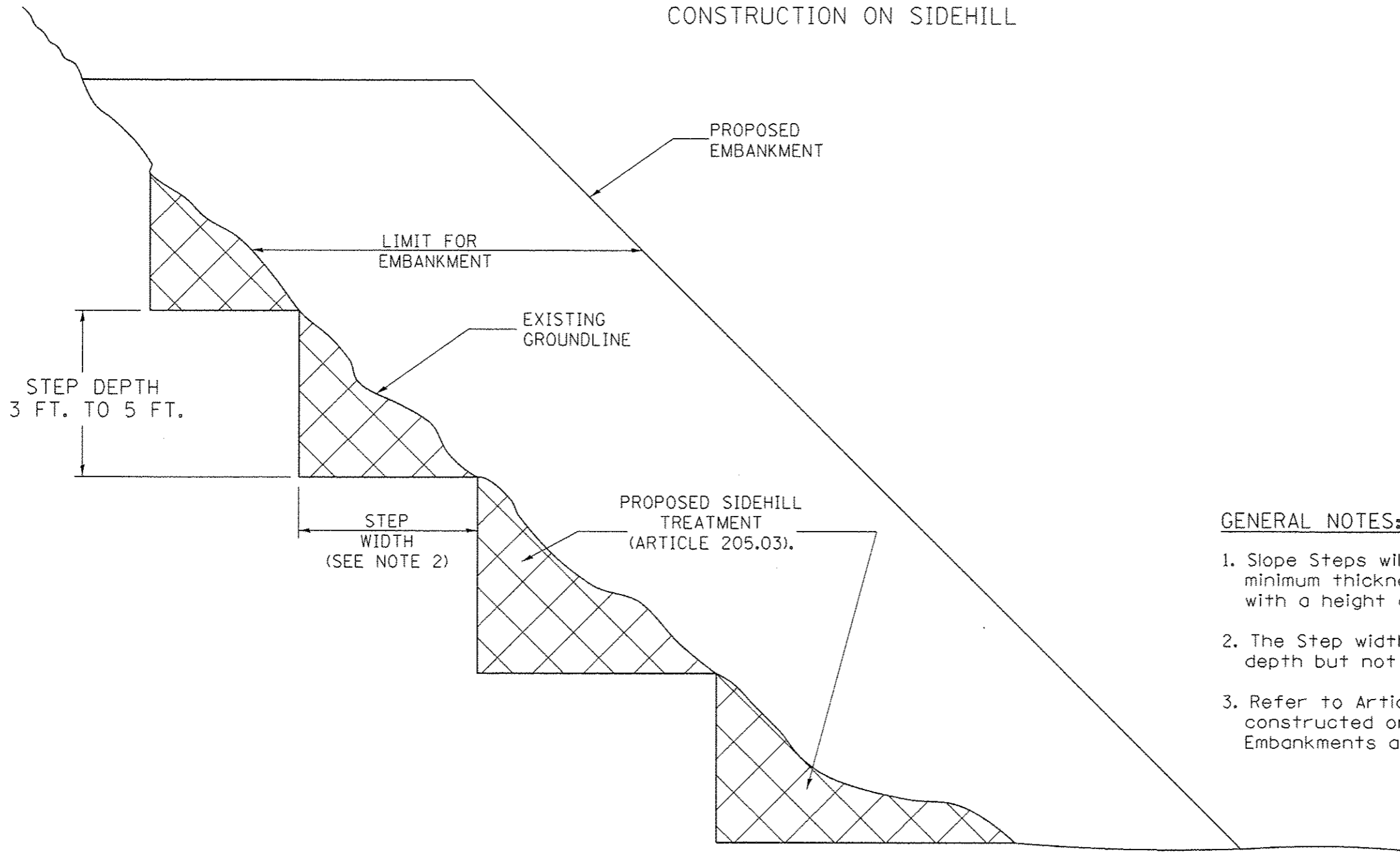
BRONZE TABLET

GENERAL NOTES

1. The Permanent Bench Mark shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the Bench Mark shall be in accordance with the plans in general.
4. The Bench Mark shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monument shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after the Bench Mark has been installed.

FILE NAME = #FILES#	DESIGNED - AJP	REVISED -	PEORIA COUNTY HIGHWAY DEPARTMENT				PERMANENT BENCH MARK				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = IEI	DRAWN - AJP	REVISED -					SCALE: N.T.S.				1381	10-00005-03-BR	PEORIA	55	46A
PLOT SCALE = 200.0000''/1'	CHECKED - BAR	REVISED -	SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 89464					[ILLINOIS] FED. AID PROJECT			
PLOT DATE = 10/28/2012	DATE - 11/02/2012	REVISED -													

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).

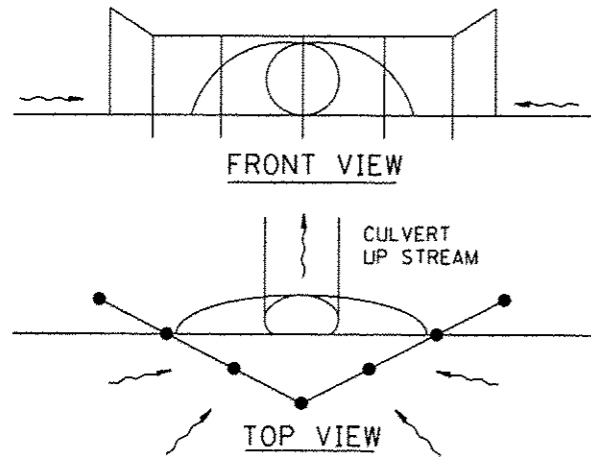
DESIGNER NOTE:

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

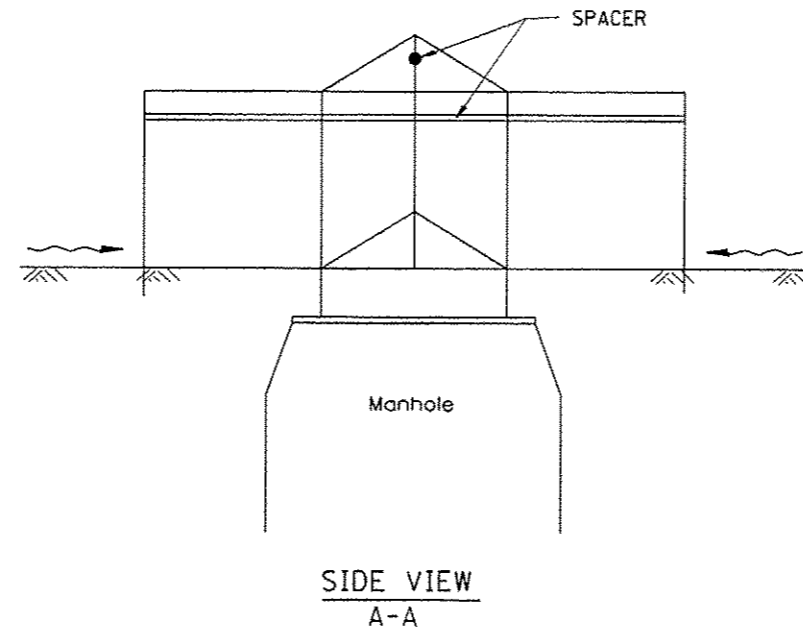
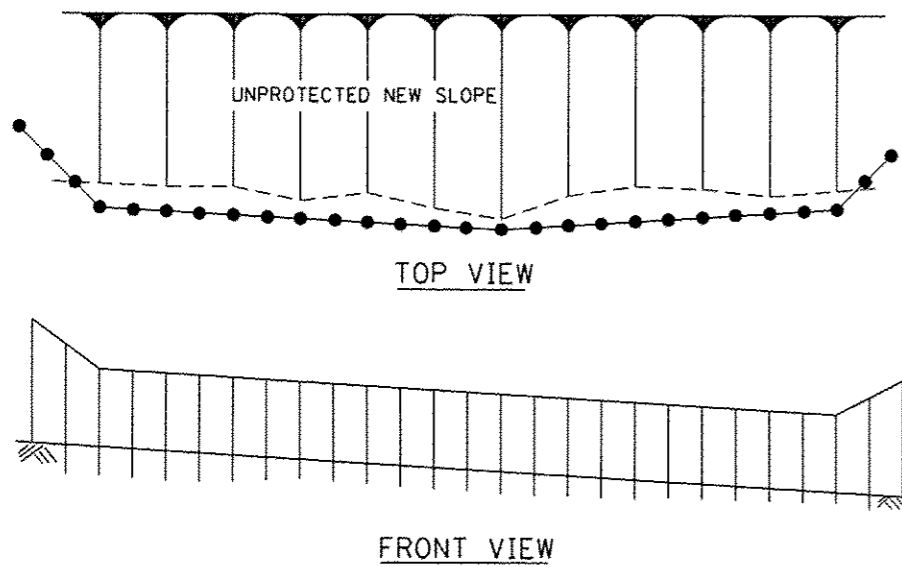
All dimensions are in inches (millimeters) unless otherwise noted.

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.																	
10-16-06	REVISED TO 2007 SPEC.	M.A.																	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										SLOPE STEPS DETAIL				NOT TO SCALE		CADD STD. 205001-D4		F.A.S. RTE. 1381 SECTION 10-00005-03-BR COUNTY PEORIA TOTAL SHEETS 55 SHEET NO. 47	
																FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 89464			

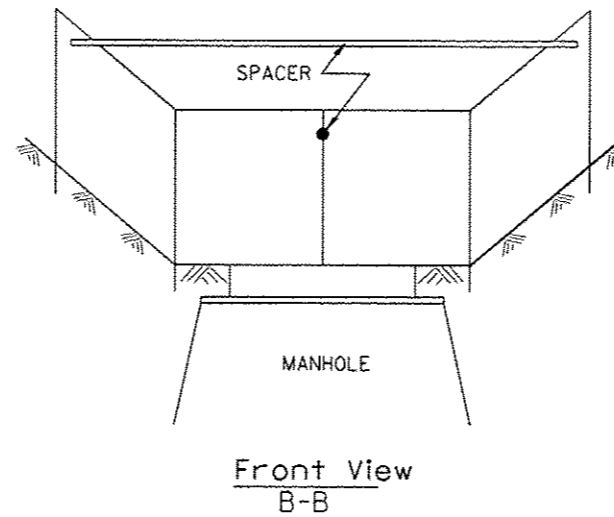
Designer NOTES:
 1. Designer to modify this Special Detail sheet, as needed, for inclusion in plans.
 2. Include Highway Standard 280001 "TEMPORARY EROSION CONTROL SYSTEM."



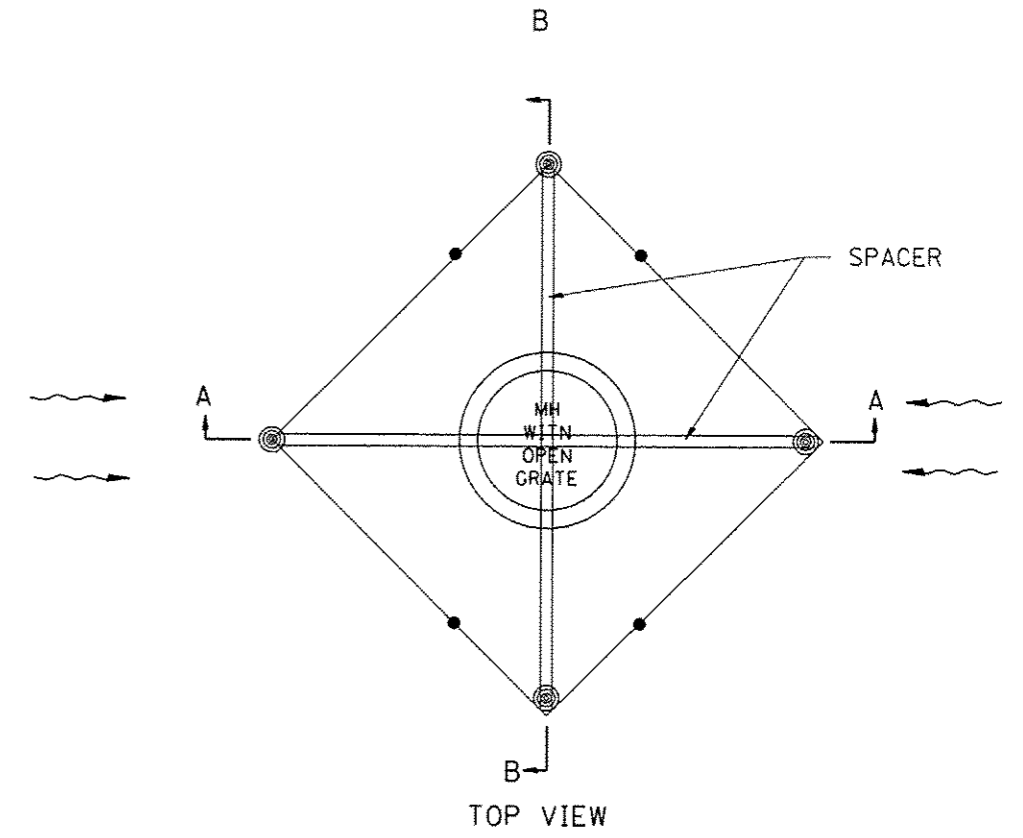
UPSTREAM PIPE CULVERT EROSION CONTROL



SIDE VIEW
A-A



Front View
B-B
EROSION CONTROL
AT
OPEN GRATE MAN HOLE



GENERAL NOTES:

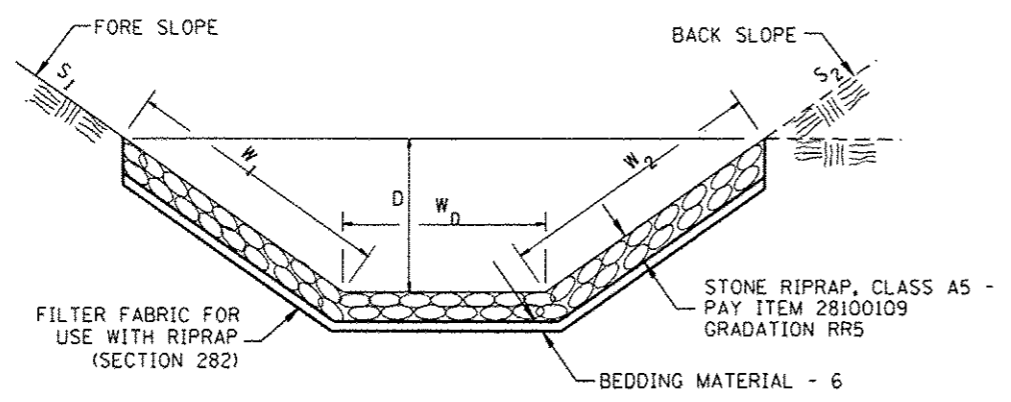
1. This work shall be performed in accordance with Sections 280 & 1081, of the Standard Specifications.
2. Additional Timber or Metal Post shall be installed, as needed.

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

1-1-97		T.P.																																
3-11-03	ELIMINATED SILT FENCE DITCH CHECK	M.A.																																
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										TYPICAL APPLICATION OF SILT FILTER FENCE					<table border="1"> <tr> <td>F.A.S. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>1381</td> <td>10-00005-03-BR</td> <td>PEORIA</td> <td>55</td> <td>48</td> </tr> <tr> <td colspan="5" style="text-align: right;">CONTRACT NO. 89464</td> </tr> </table>					F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	1381	10-00005-03-BR	PEORIA	55	48	CONTRACT NO. 89464				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																														
1381	10-00005-03-BR	PEORIA	55	48																														
CONTRACT NO. 89464																																		
										NOT TO SCALE					CADD STD. 280001-D4																			
										FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT																								

Designer NOTES:
 1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
 2. (*) Designer to specify pay item including material, quality, and gradation.
 3. (**) Designer to specify thickness of bedding material.
 4. Include District Special Provision if needed.

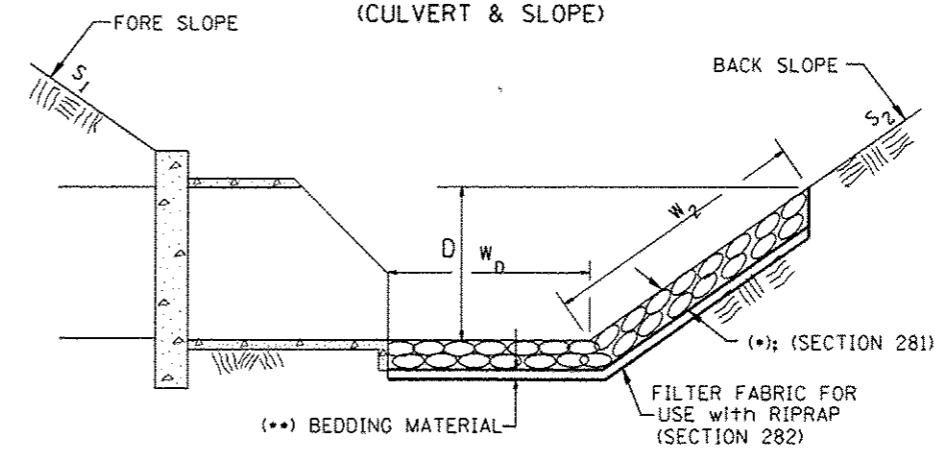
**CASE 1
(DITCH)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	sq yds (m ²)	sq yds (m ²)
197+50 TO 198+50 RIGHT	13'	100'	144	144
198+50 TO 199+99 RIGHT	13'	149'	215	215
198+39 TO 199+98 LEFT	13'	159'	230	230
200+08 TO 200+85 RIGHT	13'	77'	111	111
TOTAL			700	700

(1) WIDTH = $W_1 + W_2 + W_D$

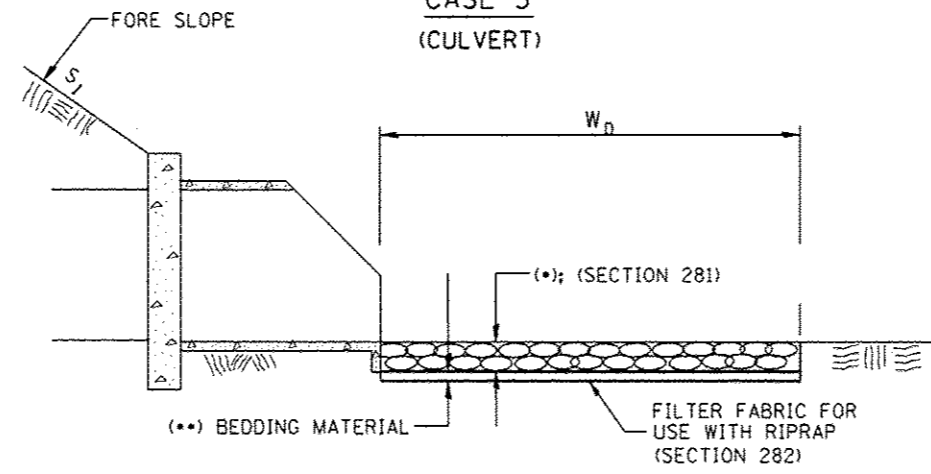
**CASE 2
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(1) WIDTH = $W_2 + W_D$

**CASE 3
(CULVERT)**

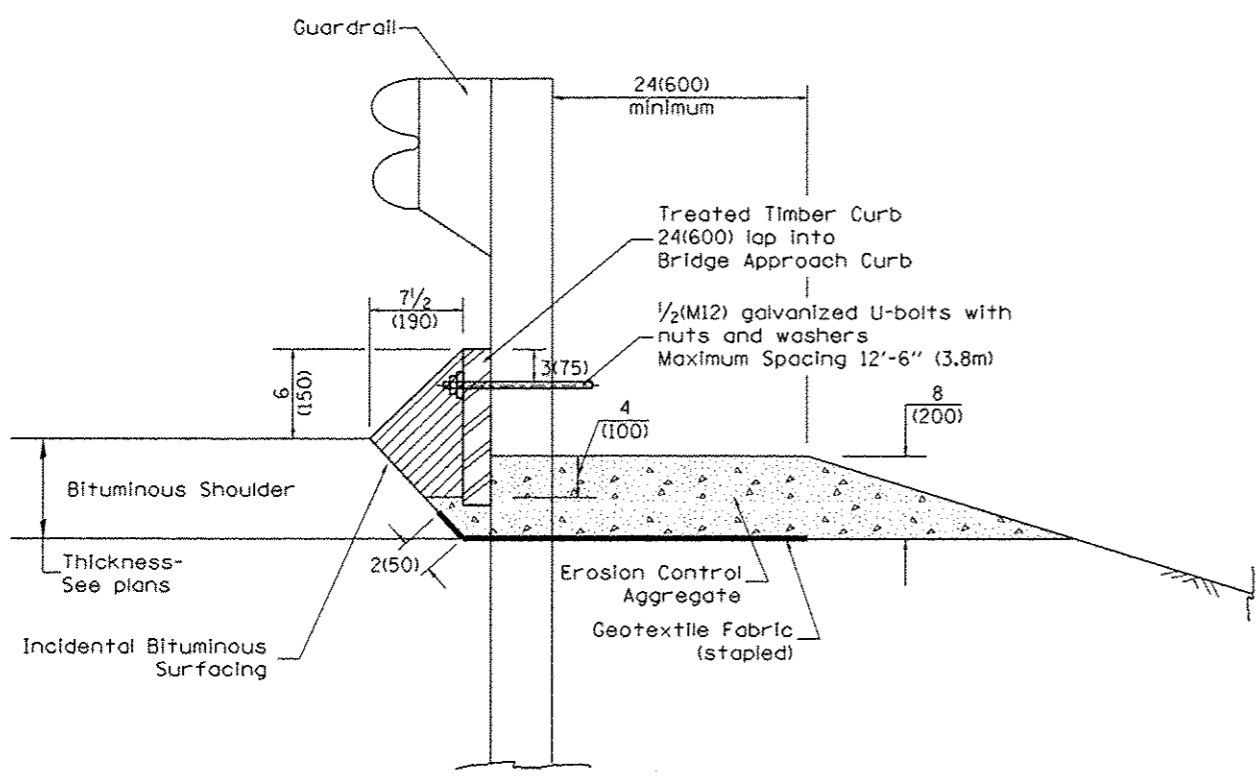


(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

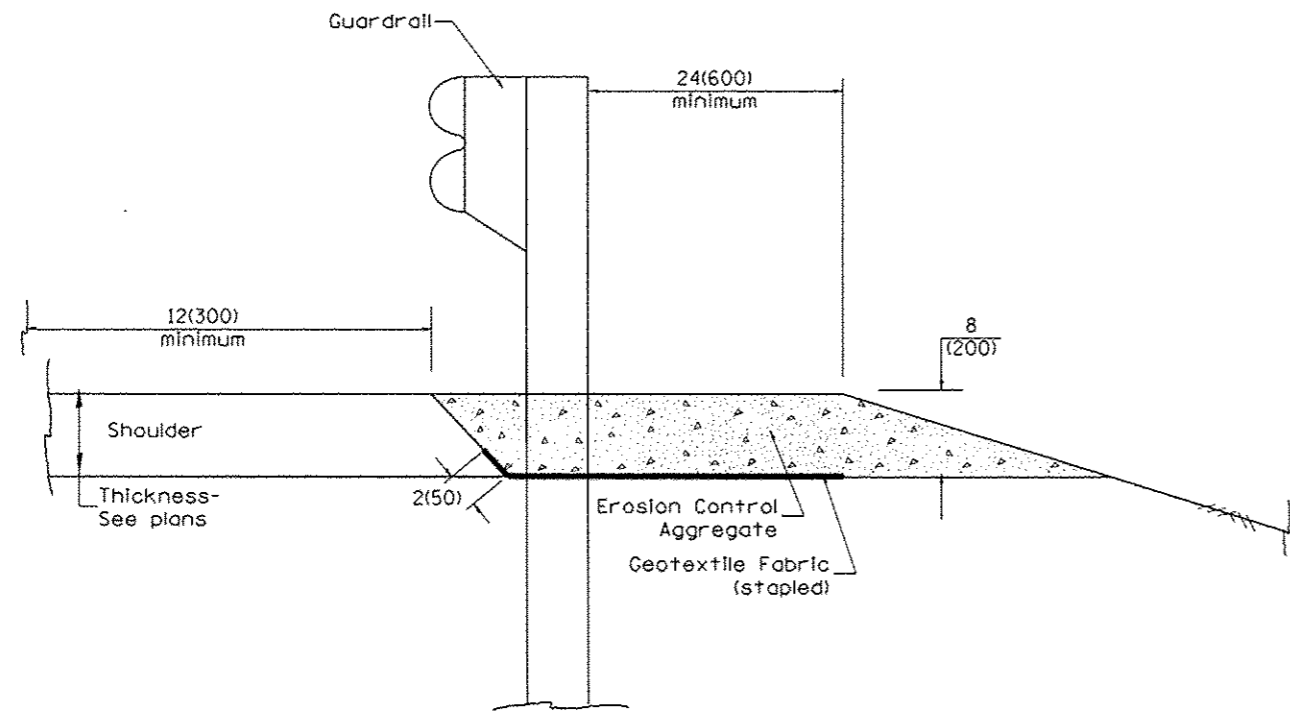
(1) WIDTH = W_D

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 noted.

1. Use EROSION CONTROL CURB at guardrail installations where grades are equal to or greater than 1% and at inlets. (Include District Special Provision)
 2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1%. (Include District Special Provision)
 3. Include State Standards 609001, 609006 or 610001 if applicable.
 4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
 5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m³)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

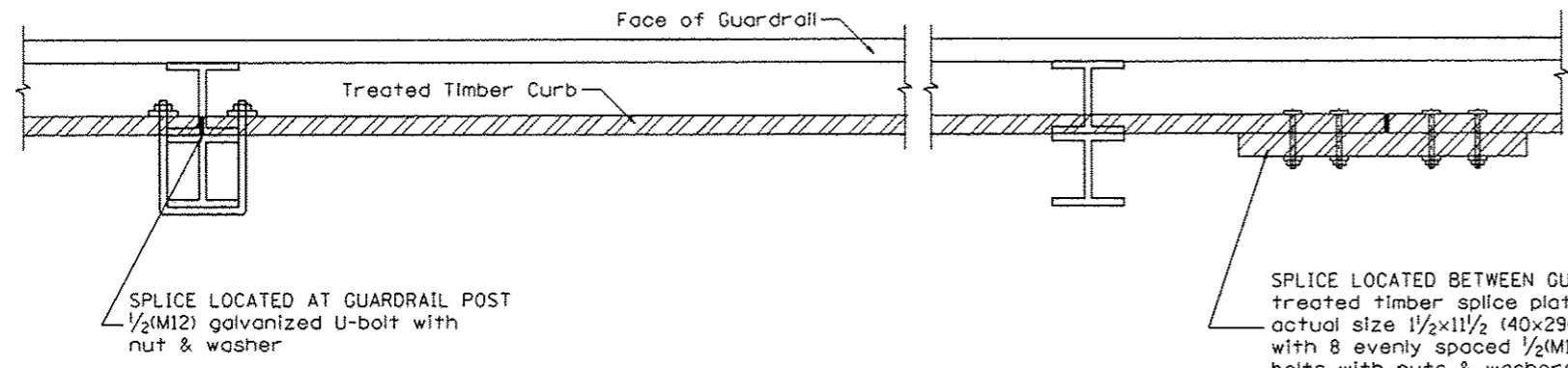
1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
 - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
 - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

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

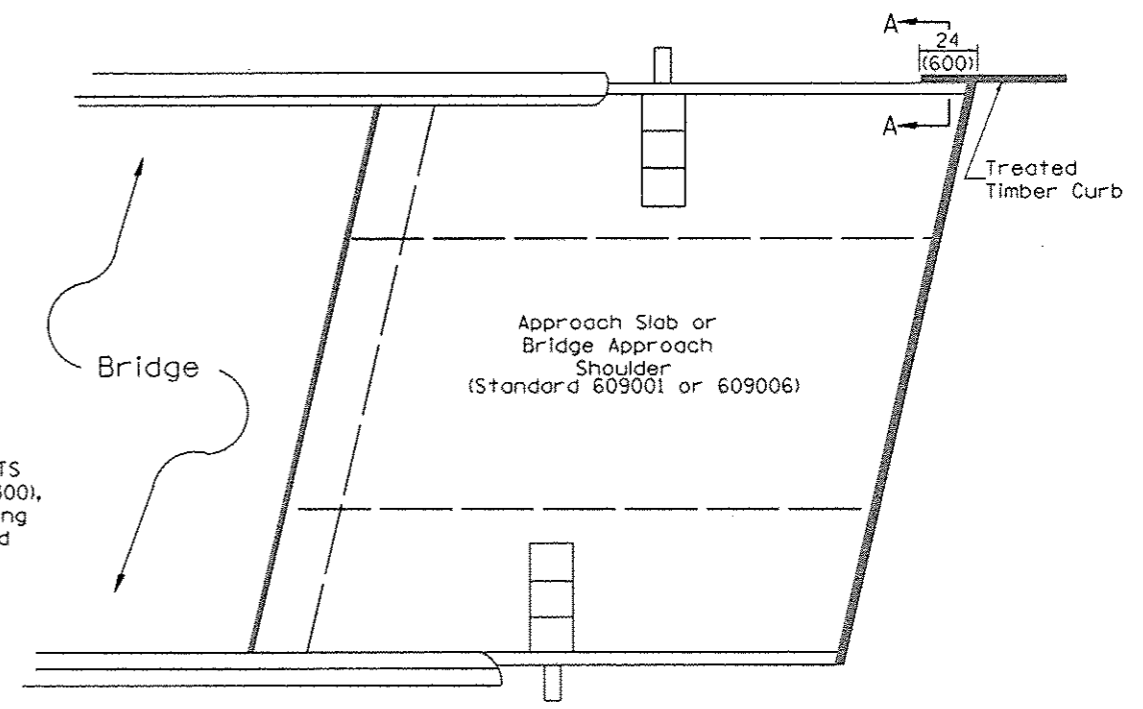
01-01-97	RENUM. C-22.01. NEW REVISION BOX	T.P.			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL EROSION CONTROL TREATMENTS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.					1381	10-00005-03-BR	PEORIA	55	50
11-03-00	CORRECTION TO NOTES	M.A.									CONTRACT NO. 89464
10-16-06	REVISED TO 2007 SPEC.	M.A.							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

NOT TO SCALE

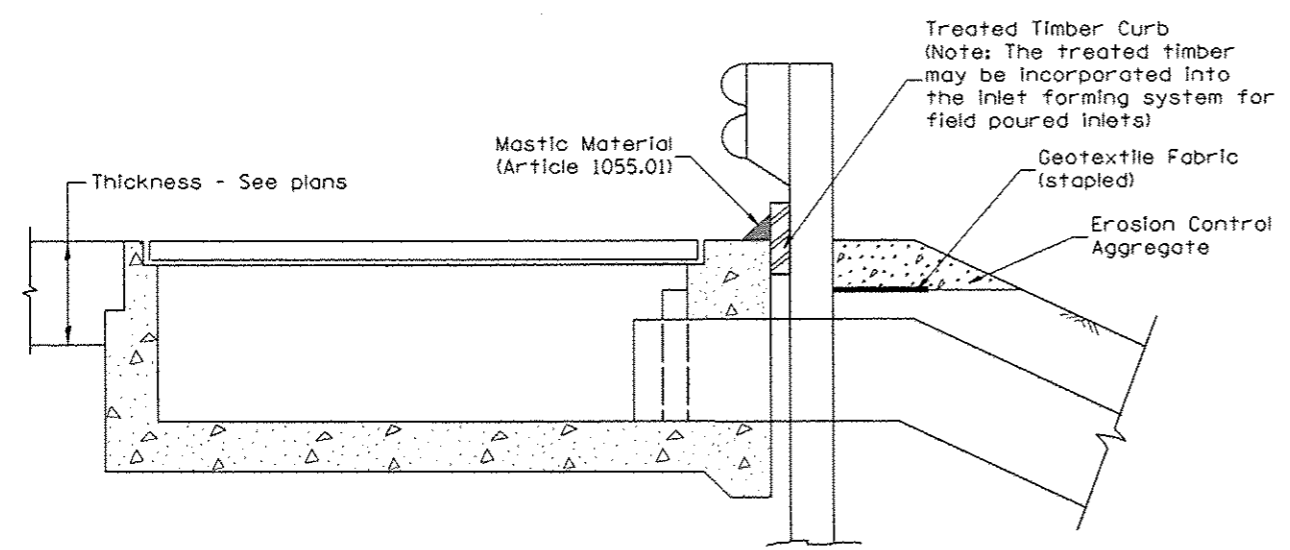
SHT. 1 OF 2
CADD STD. 630101-04



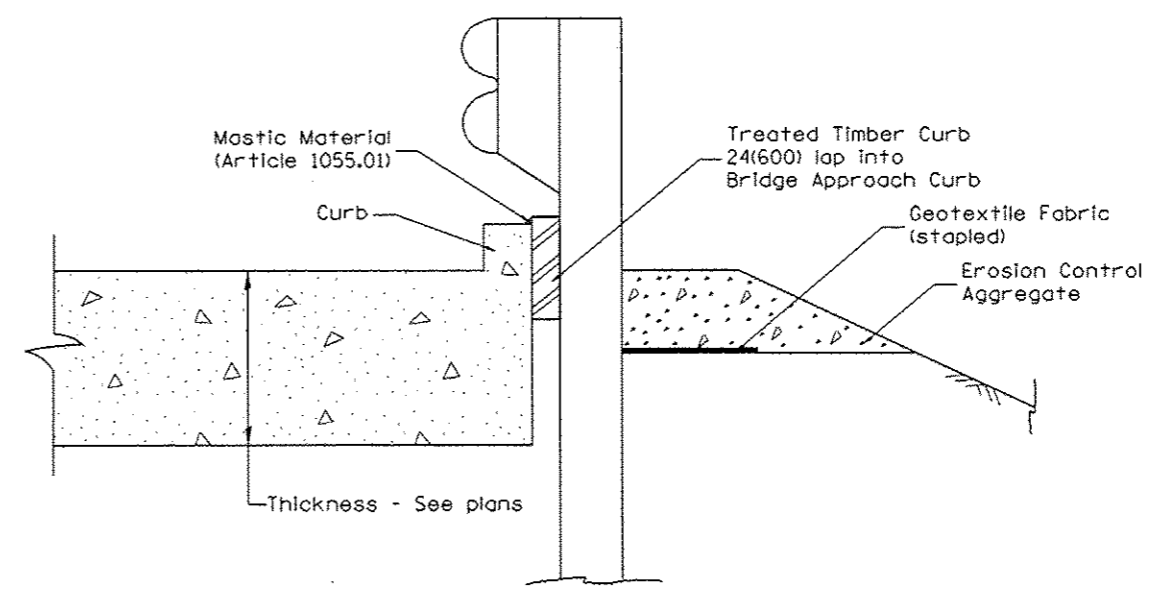
DETAIL A
(Typical Treated Timber Splices)



PLAN VIEW
APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)



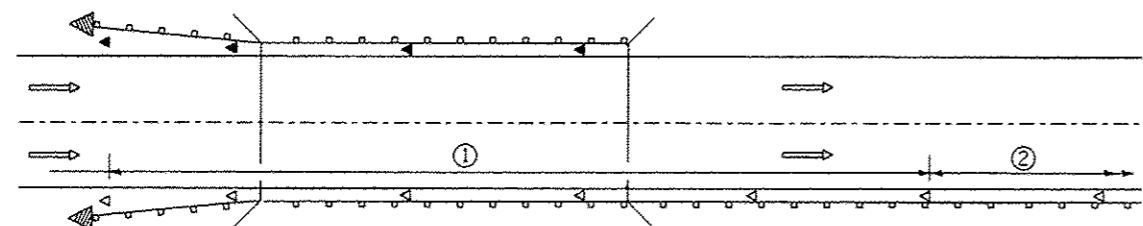
TYPICAL SECTION WITH EROSION CONTROL CURB
AT INLETS TYPE E & F (STANDARD 610001)



SECTION A-A
TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

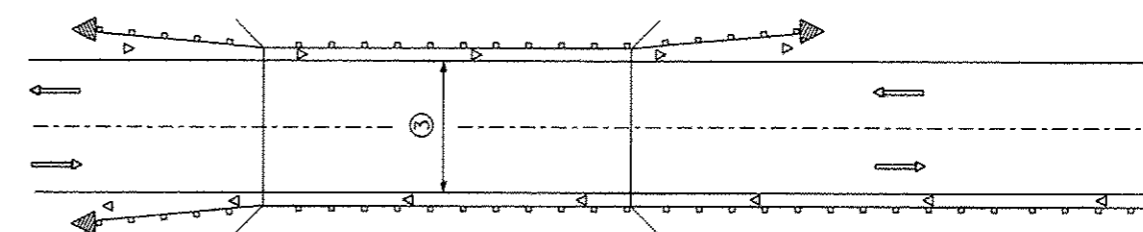
All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL EROSION CONTROL TREATMENTS				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								1381	10-00005-03-BR	PEORIA	55	51
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 630101-D4				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
								CONTRACT NO. 89464				



- ① Spacing 80 ft. (24 m) max. for first 400 ft. (122 m) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).
- ② After 400 ft. (122 m), transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC



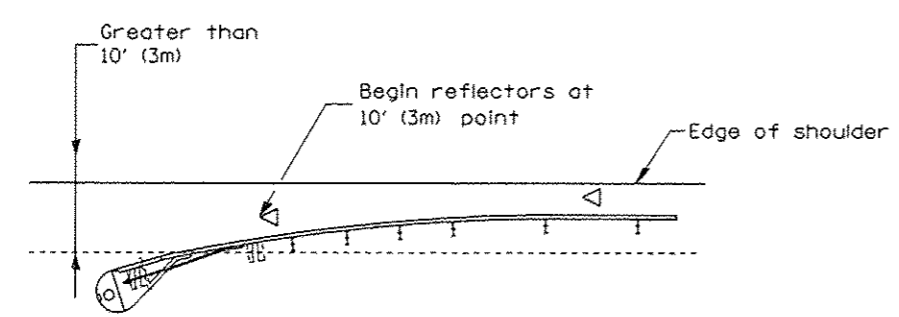
- ③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS

LEGEND

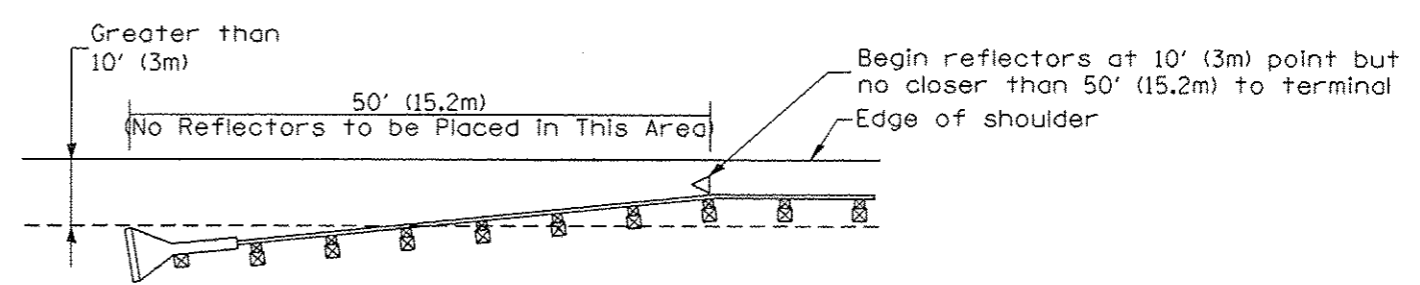
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ◄ Terminal Marker - Black/Yellow
Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 10' (3m) from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

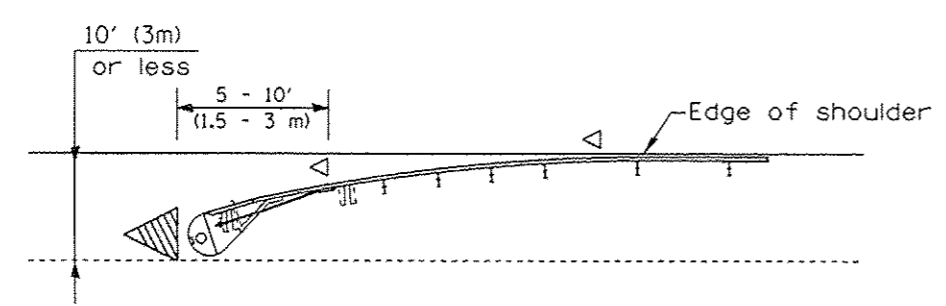
[Terminal over 10' (3m) from edge of shoulder]
•See Plans for Type



NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.

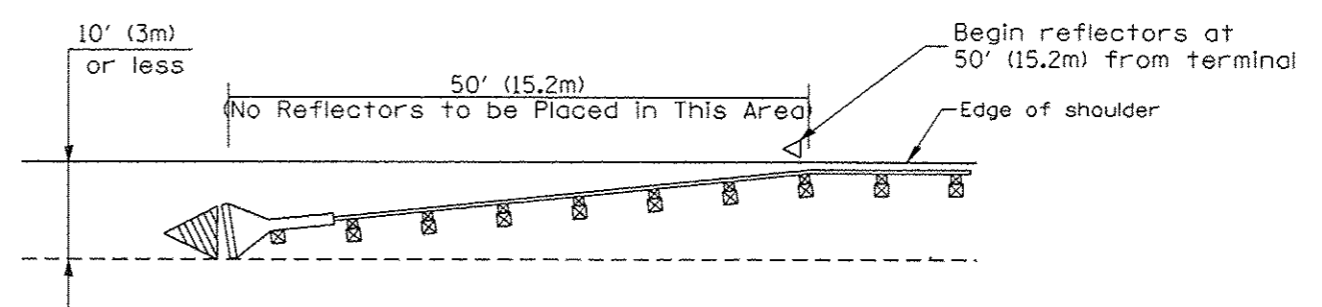
Traffic Barrier Terminal Type I (Special)

[Terminal over 10' (3m) from edge of shoulder]



Traffic Barrier Terminal Type(*) and/or Turned-Down Terminal

[Terminal over 10' (3m) or less from edge of shoulder]
•See Plans for Type



Traffic Barrier Terminal Type I(Special)

[Terminal 10' (3m) or less from edge of shoulder]

TERMINAL MARKER PLACEMENT

DESIGNER NOTES:
 1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY; 1. TERMINAL MARKER, 2. TERMINAL MARK POST, AND 3. GUARDRAIL AND BARRIER WALL MARKERS."
 FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."
 2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. T20011.

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

01-01-97	RENUM. E-10.02, NEW REVISION BOX	T.P.
03-01-97	CORRECT STD. SPEC. *	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

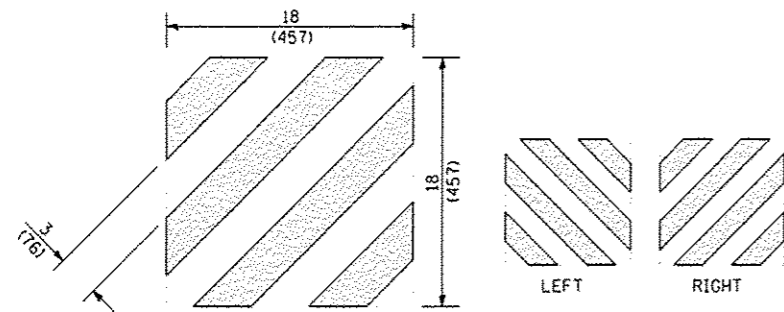
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL AND BARRIER WALL DELINEATION

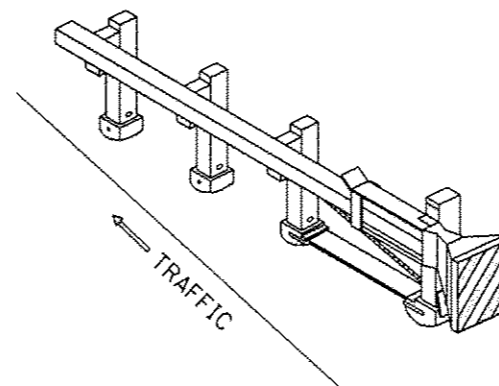
NOT TO SCALE

SHT. 1 OF 3
CADD STD. 635101-D4

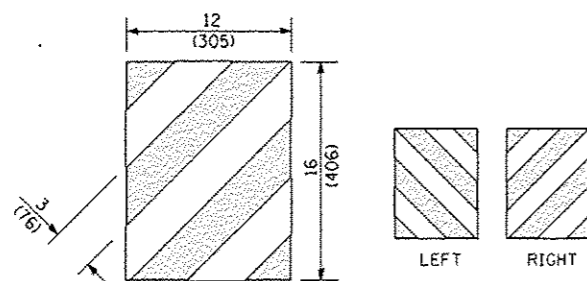
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	52
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



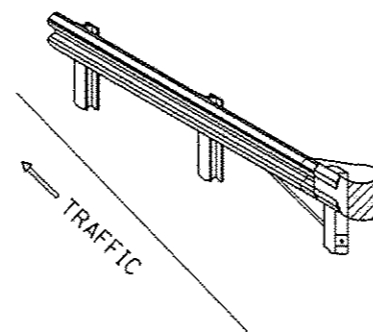
For Traffic Barrier Terminal Type 1 (Special)



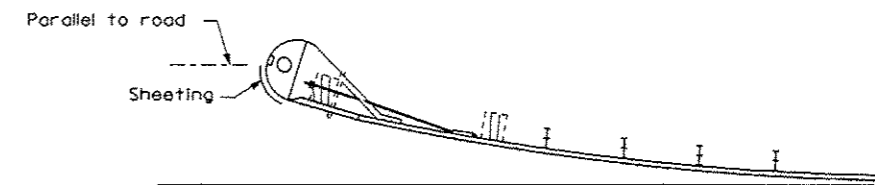
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type 1 (Special)



For Traffic Barrier Terminal Type (*)
and Post Mount
• See Plans for Type



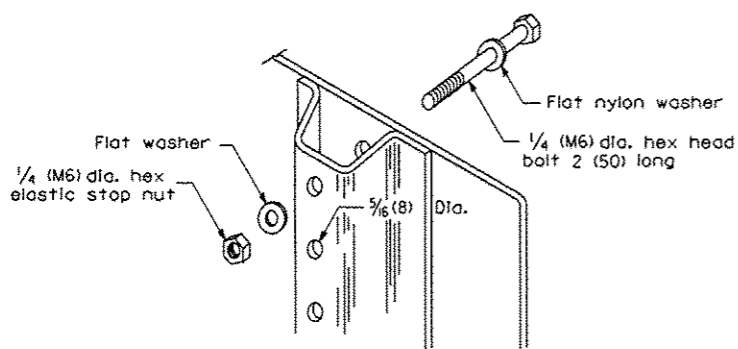
Standard Treatment - Direct Applied Sheeting
Traffic Barrier Terminal Type (*)
• See Plans for Type



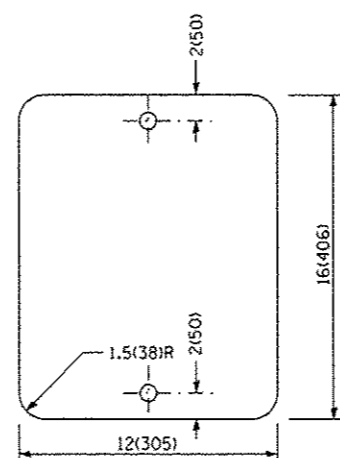
Sheeting Position for
Traffic Barrier Terminal Type (*)
• See Plans for Type

TERMINAL MARKER DETAILS

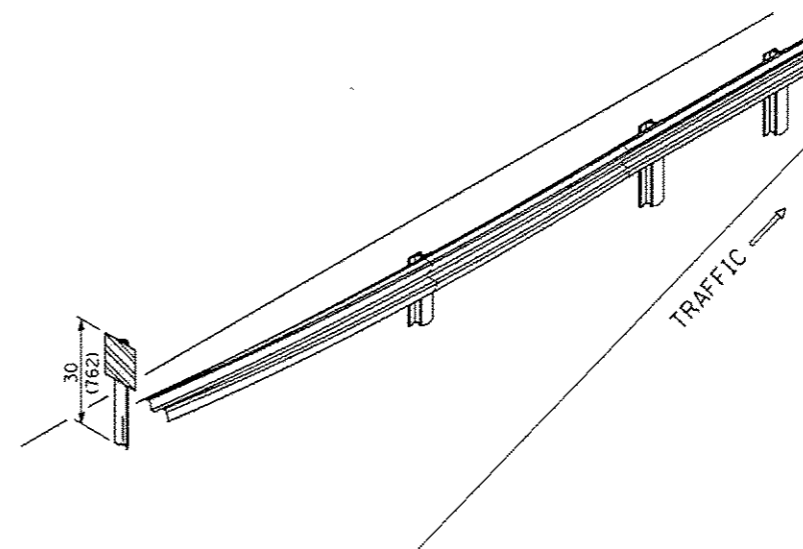
- Color: Black / Yellow reflectorized
- OM - I100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted



DETAIL OF MOUNTING TERMINAL MARKER TO POST



STANDARD TERMINAL MARKER



ALTERNATE TREATMENT - POST MOUNTED
(For turned-down terminal where sheeting cannot be direct applied)

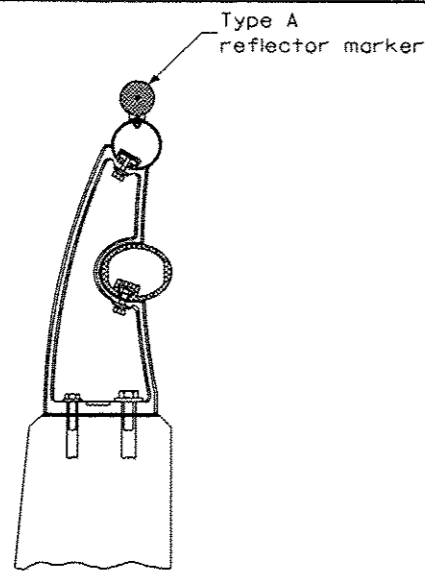
POST MOUNTED TERMINAL MARKER ASSEMBLY

TERMINAL MARKER TREATMENTS

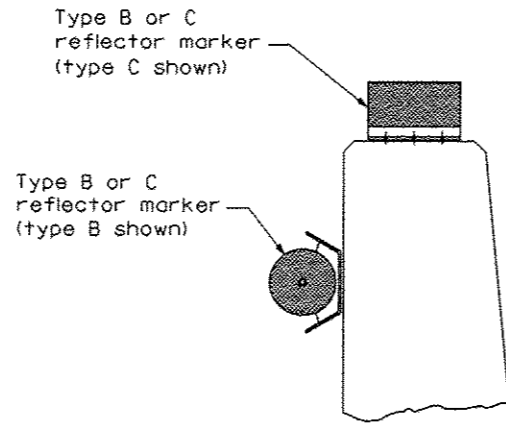
GENERAL NOTES

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

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				GUARDRAIL AND BARRIER WALL DELINEATION				SHT. 2 OF 3	
NOT TO SCALE				CADD STD. 635101-D4				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
1381	10-00005-03-BR	PEORIA	55	53	CONTRACT NO. B9464				

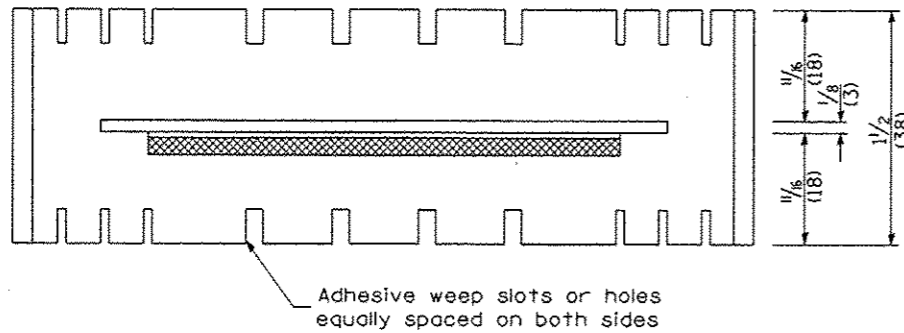


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR

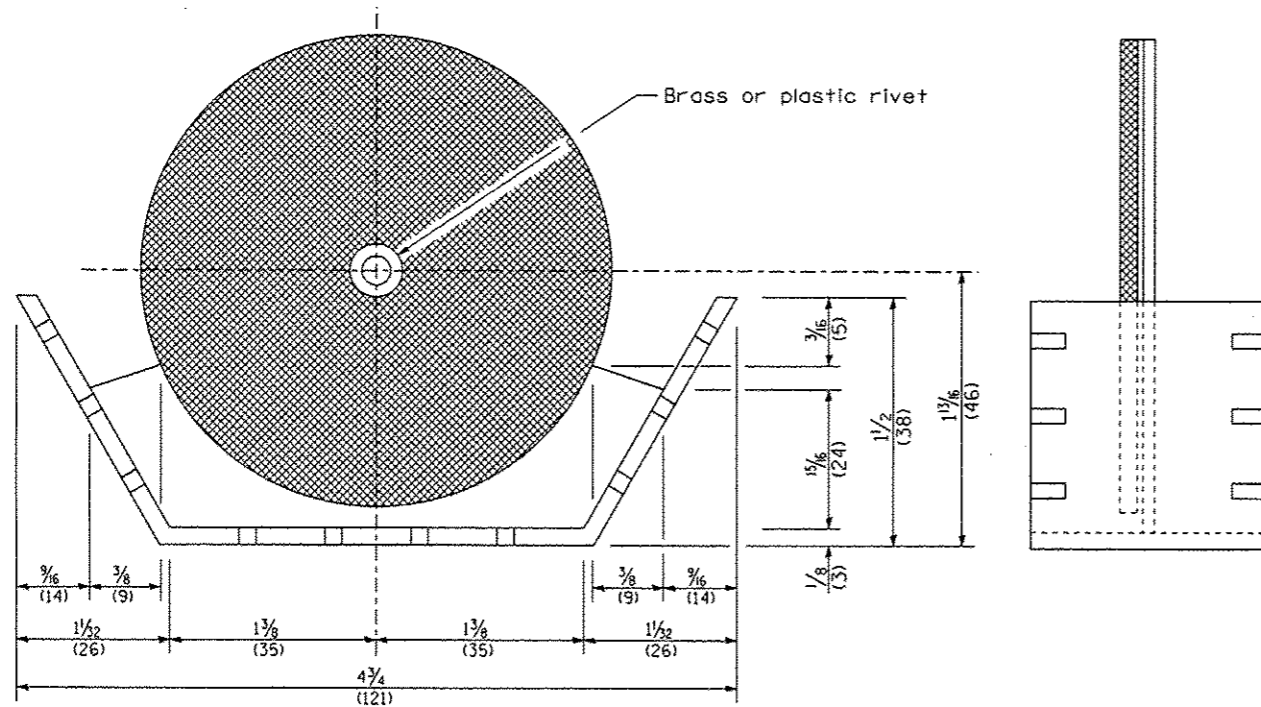


TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

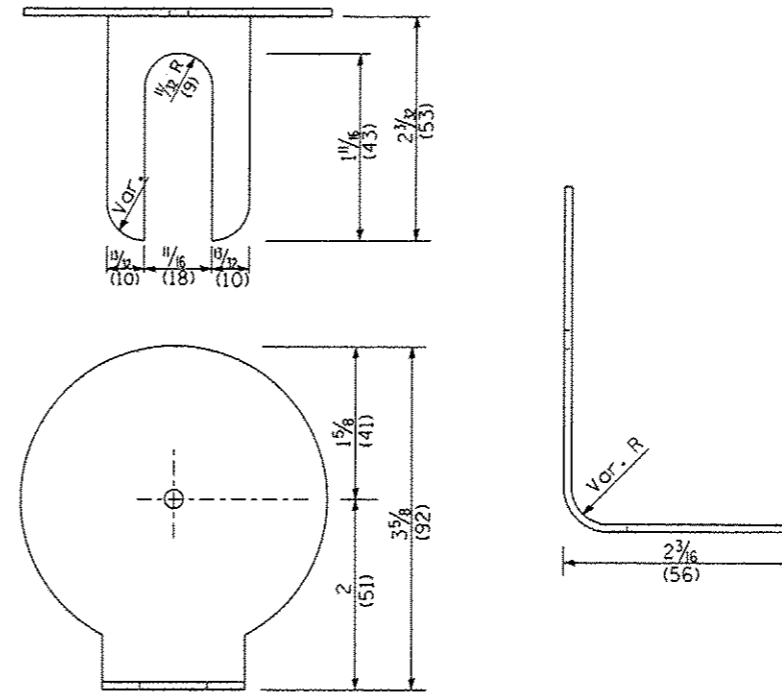
REFLECTOR MOUNTING



Adhesive weep slots or holes equally spaced on both sides

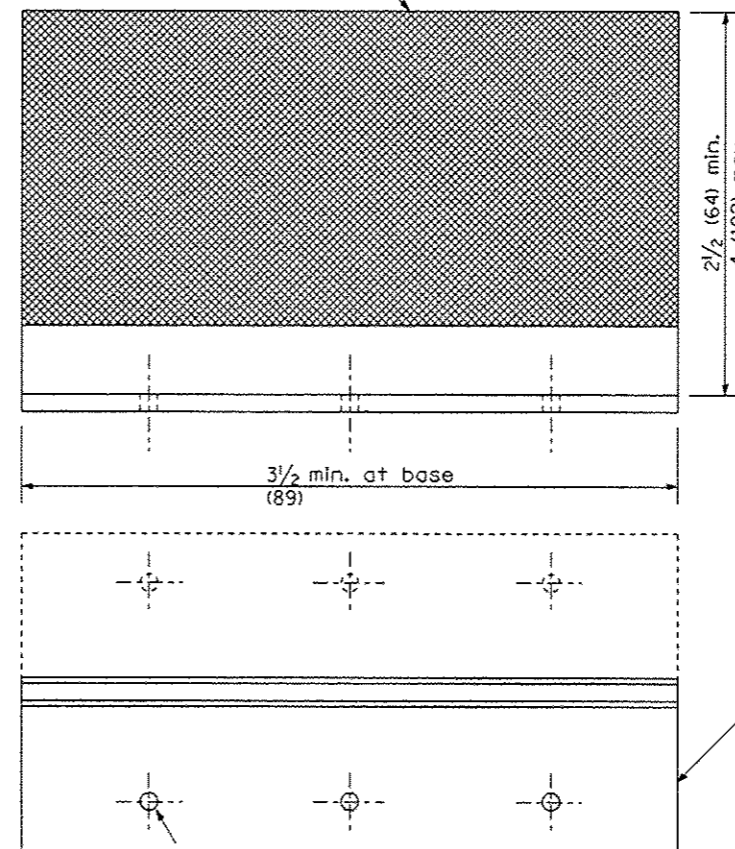


REFLECTOR MARKER TYPE B



REFLECTOR MARKER TYPE A

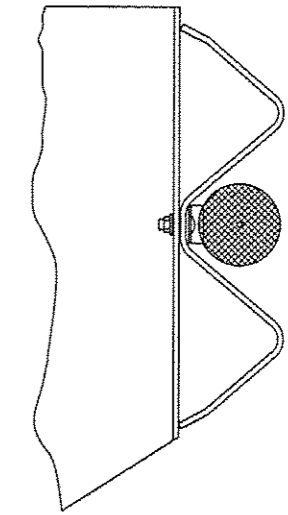
Min. reflective area 6 1/2 sq. in. (4,194 mm²) each side. May be rectangular or slight trapezoid.



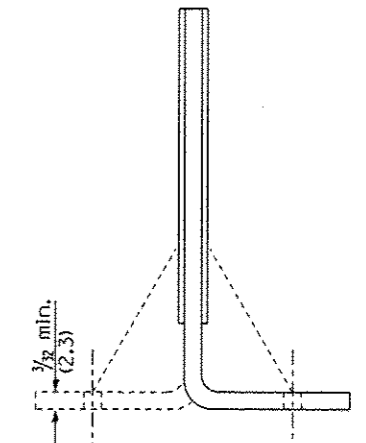
REFLECTOR MARKER TYPE C

3 min. adhesive weep holes or slots each side, variable spacing.

Minimum total area of base 7.0 Sq. in. (4,516 mm²)



TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A

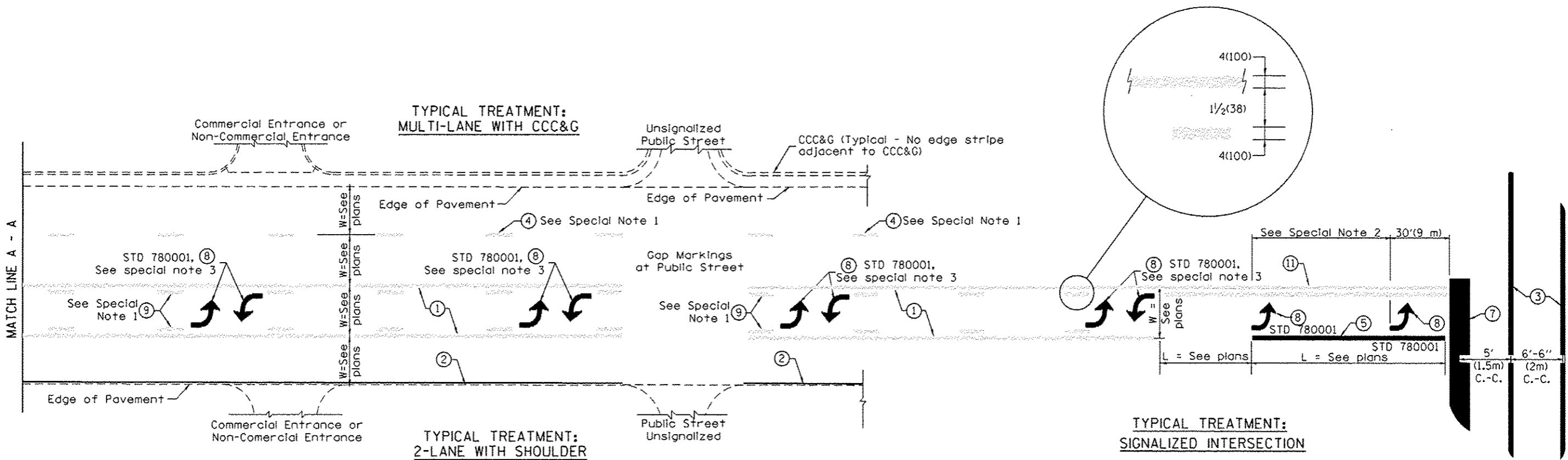


Cross section may be "T" or "L" shaped and may have side supports at ends.

REFLECTORS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1381	10-00005-03-BR	PEORIA	55	54
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 89464	

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(280) C.-C. See Table A
- ⑪ 4(100) Double Solid (Yellow)

SPECIAL NOTES

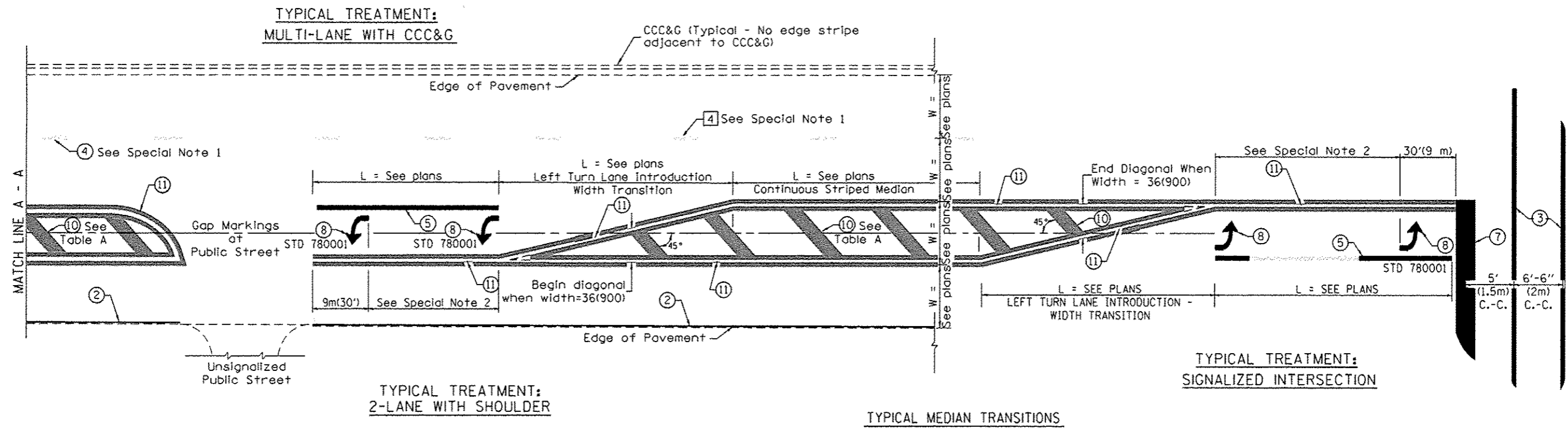
1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
 - A. A minimum of two (2) arrows is required.
 - B. The maximum spacing between arrows 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.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.					1381	10-00005-03-BR	PEORIA	55	55
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.					SHT. 1 OF 2		CONTRACT NO.		
08-02	ADD CROSSWALK DIMS, WITH T.S.	M.A.					CADD STD. 780001-D4		ILLINOIS FED. AID PROJECT		

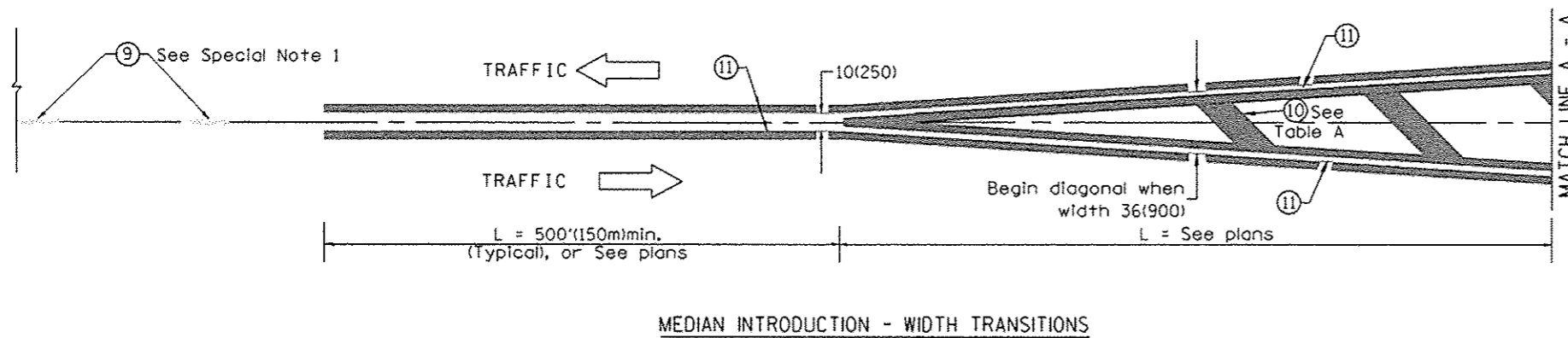
NOT TO SCALE



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
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)



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