

INDEX OF SHEETS

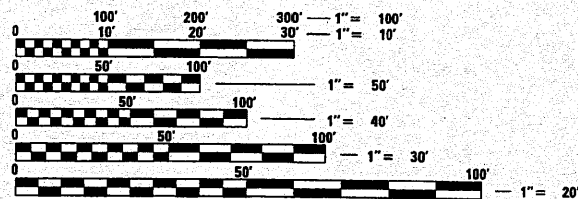
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	ILLINOIS DOT HIGHWAY STANDARDS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	630301-05
001001-02	631031-09
280001-05	635006-03
406201-01	635011-02
420001-07	701006-03
420401-08	701101-02
482011-03	701201-04
515001-03	701901-01
542301-03	780001-02
602011-02	781001-03
630001-09	BLR 21-8
60101-01	

LIST OF DISTRICT 4 CADD STANDARDS

205001-D4
630101-D4
667101-D4



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

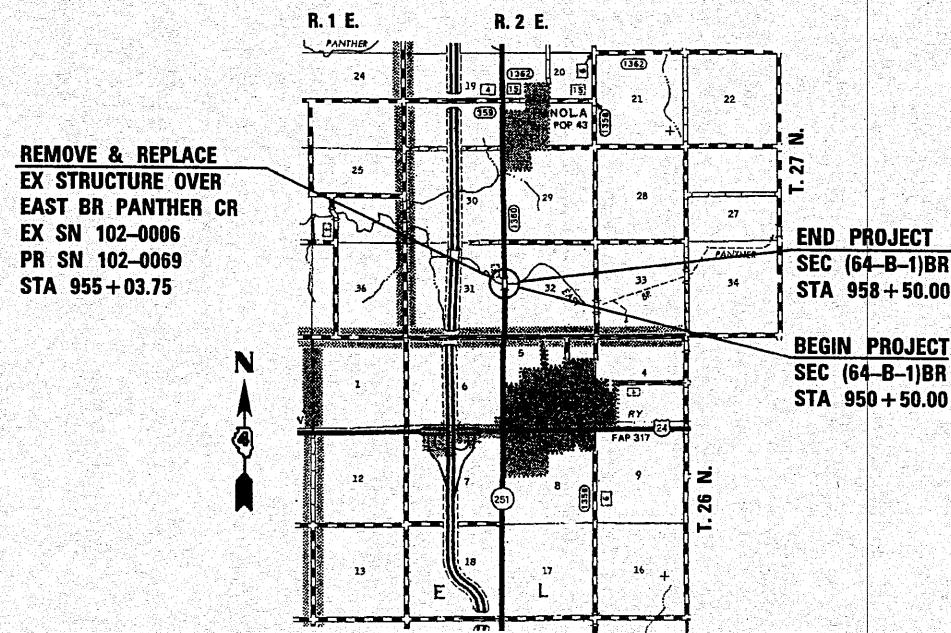
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: RICH DOTSON 309-671-3455
PROJECT MANAGER: TERRISA WORSFOLD 309-671-3465

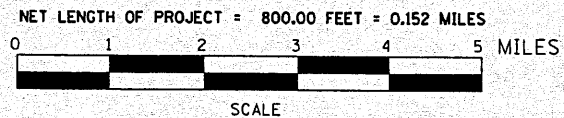
CATALOG NO. 033719-00D
CONTRACT NO. 68785

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

FAS 1360 (IL ROUTE 251)
SECTION (64-B-1)BR
PROJECT BRS-1360(108)
WOODFORD COUNTY
C-94-025-08

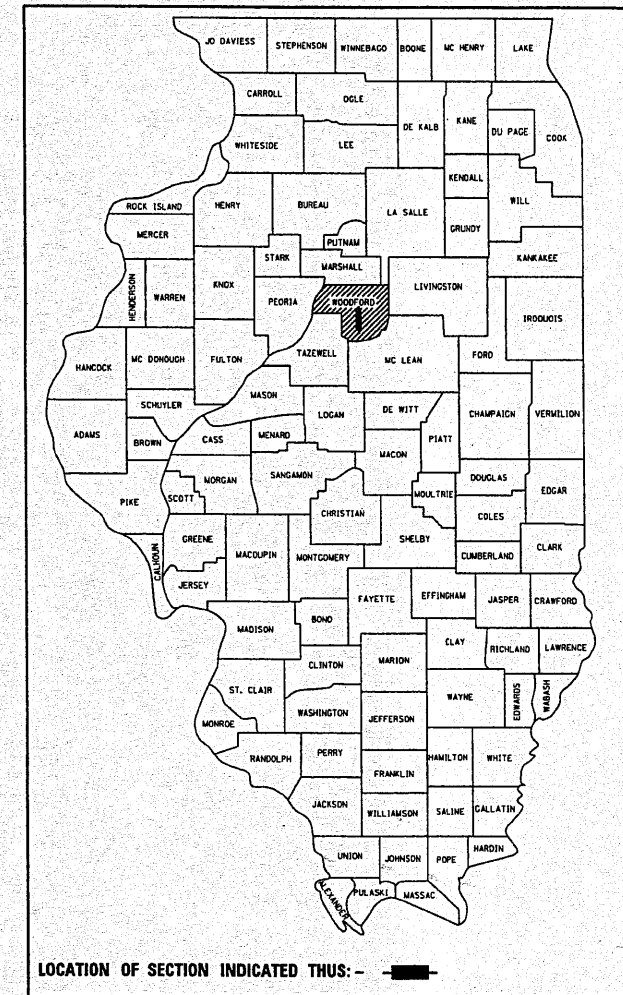


LOCATION PLAN



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 68785		

D-94-023-08



ADT = 1650 (2007)
% SU = 5.5 (2007)
% MU = 5.5 (2007)
TOWNSHIP: PANOLA
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (RURAL)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED 10/21/10
Deputy Director of Highways, Region Three Engineer
Dec 10 2010
Scott E. Stitt, PE
Acting Engineer of Design and Environment
Dec 10 2010
Christina M. Reeder
Director of Highways, Chief Engineer

CHRISTOPHER P. KOLB
082-046568
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
Christoph P. Kolb
EXPIRATION: 11/30/2011 10/21/10

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

I.D.O.T. DISTRICT 4 GENERAL NOTES

1. AVAILABILITY OF ELECTRONIC FILES

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 OF 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 SOLE 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. UTILITIES - LOCATIONS / INFORMATION ON PLANS

THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN --- ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

3. PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM

ALL ELEVATIONS SHOWN REFER TO U. S. G. S. DATUM AT MEAN SEA LEVEL UNLESS OTHERWISE NOTED.

4. PROPERTY OWNER ACCESS REQUIREMENTS

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. SEEDING - SIDE SLOPE RIPPING

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 TO 24 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.

6. AGGREGATE FOR DRIVEWAY REPLACEMENT

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS.

NO ADDITIONAL COMPENSTATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

7. PAVEMENT STATIONING NUMBERS & PLACEMENT

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH (20MM) WIDE, 5 INCHES (125 MM) HIGH AND 5/8 INCH (15 MM) DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)

BOTTOM OF NUMBERS - 6 INCHES (150 MM) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING

LOCATION:

- 2,3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
- MULTI-LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
- RAMPS - ALONG BASELINE EDGE OF PAVEMENT

POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER

FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+X00)"

WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

8. POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) RATES

SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 GAL/SO.YD. (0.00034 TON/SO.YD.)	0.04 GAL/SO.YD.
EXISTING PAVEMENT (NOT MILLED)	0.05 GAL/SO.YD. (0.00022 TON/SO.YD.)	0.025 GAL/SO.YD.
FOG COAT BETWEEN LIFTS	0.05 GAL/SO.YD. (0.00022 TON/SO.YD.)	0.025 GAL/SO.YD.

NOTE: ESTIMATED TRUCK APPLICATION RATE IS USED FOR ESTIMATING QUANTITIES.

9. HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	HOT-MIX ASPHALT SURFACE COURSE (1 1/2 " NOMINAL)	HOT-MIX ASPHALT BINDER COURSE (2 1/4 " NOMINAL & VAR)	HOT-MIX ASPHALT SHOULDERS 8" (LOWER LIFTS)	HOT-MIX ASPHALT SHOULDERS 8" (SURFACE LIFT)
AC / PC	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)**	15	25	30	30
DESIGN AIR VOIDS	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 30	3.0% @ N DESIGN = 30
MIXTURE COMPOSITION	IL 9.5 OR 12.5	IL 19.0	IL 19.0L	IL 9.5L
FRICTION AGGREGATE	MIX D	N/A	N/A	MIX C

** IF THE RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED; THIS WILL BE DETERMINED BY THE ENGINEER.

NOTES: INDIVIDUAL LIFT THICKNESSES OF EACH MIX TYPE WILL BE NO LESS THAN 3 X NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 X NOMINAL MAXIMUM AGGREGATE SIZE.

10. BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE BITUMINOUS SURFACE COURSE.

11. PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

12. ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

13. EXISTING DRAINAGE PIPES CONNECTED TO NEW STRUCTURES

IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS, THE CONNECTING OF EXISTING DRAIN TILES, PIPE CULVERTS, OR STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEMS PROVIDED.

14. ENGINEERS FIELD OFFICE

ADD THE FOLLOWING SENTENCE TO THE END OF PARAGRAPH 670.02 (I) AND 670.04 (E): ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.

15. ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, 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.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM 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 P10100
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FROM-D4 P10101

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

PROJECT SPECIFIC GENERAL NOTES

1. THE CONTRACTOR SHALL REMOVE, MAINTAIN IN A TEMPORARY LOCATION AND PERMANENTLY RESET ALL MAILBOXES, TRAFFIC SIGNS, STREET NAME SIGNS AND ALL PRIVATE AND COMMERCIAL SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS IN ACCORDANCE WITH ARTICLES 107.20 AND 107.25 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT COST PRICES BID FOR THE VARIOUS ITEMS OF WORK INVOLVED.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE LOCAL POSTMASTER FOR APPROVAL OF THE TEMPORARY MAILBOX LOCATIONS.
3. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMIT LINES, AS SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
4. WHERE TREE REMOVAL CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LINE AND GRIND THE STUMP AS DIRECTED BY THE ENGINEER.
5. THE THICKNESS OF THE HOT MIX ASPHALT MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTINGSURFACE ORBASE ON WHICH THE HOT MIXED ASPHALT MIXTURES ARE PLACED.
6. FULL DEPTH SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
8. FOR THE DISK SET ON THE BRIDGE ABUTMENT, THE ELEVATION SHALL BE SET WITH A CLOSED LOOP TO THE DISK, VERIFIED, STAMPED AND A MEMO SENT TO THE CHIEF OF SURVEYS / PLATS DETAILING THE LOCATION OF THE DISK AND THE ELEVATION. THE LEVEL CIRCUIT SHALL BE RECORDED IN A FIELD BOOK AND A COPY OF THE FIELD BOOK ATTACHED TO THE MEMO. THE FIELD BOOK NOTES SHALL CONTAIN DESCRIPTION / LOCATIONS OF EXISTING BM, TBM, AND PROPOSED NEW BM LOCATION. THE DISK SHALL BE LOCATED SO IT IS ACCESSIBLE FOR FUTURE USE. ALL WORK SHALL BE PREFORMED BY A PLS AND THEIR NAME AND LICENSE NUMBER SHALL BE LISTED IN THE FIELD BOOK.

COMMITMENTS

1. COMMITMENTS SHALL NOT BE ALTERED WITHOUT THE WRITTEN CONSENT OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.
2. NO COMMITMENTS HAVE BEEN PLEDGED ON THIS PROJECT.

CALCULATION FACTORS

AGGREGATE SHOULDERS AND BASES: 0.05833 TONS/SO YD/INCH
 HOT MIX ASPHALT: 0.056 TONS/SO YD/INCH
 MULCH METHOD 2: 2 TONS/ACRE
 NITROGEN FERTILIZER NUTRIENT: 90 LBS/ACRE
 PHOSPHORUS FERTILIZER NUTRIENT: 90 LBS/ACRE
 POTASSIUM FERTILIZER NUTRIENT: 90 LBS/ACRE
 TEMPORARY EROSION CONTROL SEEDING: 100 LBS/ACRE
 STONE DUMPED RIPRAP: 1.5 TONS/CU YD

USER NAME = #USER#	DESIGNED -	REVISED -
PLLOT SCALE = 2.0000 ' / IN.	DRAWN -	REVISED -
PLLOT DATE = 18/25/2010	CHECKED -	REVISED -
	DATE -	REVISED -



Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

GENERAL NOTES, COMMITMENTS & MIX REQUIREMENTS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	2
CONTRACT NO. 68785				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURE
				FAS 1360 80% FEDERAL 20% STATE	S.N. 102-0069 80% FEDERAL 20% STATE
				CONSTRUCTION TYPE CODE	
				0004	0011
20200100	EARTH EXCAVATION	CU YD	571	571	
20300100	CHANNEL EXCAVATION	CU YD	412	412	
20400800	FURNISHED EXCAVATION	CU YD	658	658	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3445	3445	
* 25000210	SEEDING, CLASS 2A	ACRE	0.8	0.8	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72	72	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	72	72	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72	72	
* 25100115	MULCH, METHOD 2	ACRE	0.8	0.8	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	320	320	
28000305	TEMPORARY DITCH CHECKS	FOOT	165	165	
28000400	PERIMETER EROSION BARRIER	FOOT	1368	1368	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100109	STONE RIPRAP, CLASS A5	SQ YD	2125		2125
28100227	STONE RIPRAP, CLASS B4	TON	975	975	
28200200	FILTER FABRIC	SQ YD	3590	1465	2125
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	133	133	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	51	51	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	10	10	
40600215	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	TON	0.6	0.6	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	345	345	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	209	209	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	133	133	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	111	111	
44004000	PAVED DITCH REMOVAL	FOOT	827	827	
44004250	PAVED SHOULDER REMOVAL	SQ YD	224	224	
48100700	AGGREGATE SHOULDERS, TYPE A 8"	SQ YD	159	159	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	552	552	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50104650	SLOPE WALL REMOVAL	SQ YD	1328		1328
50105220	PIPE CULVERT REMOVAL	FOOT	130	130	

#SPECIALTY ITEM

USER NAME = #USER#	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/27/2010	DATE -	REVISED -



Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

SUMMARY OF QUANTITIES

SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	3
CONTRACT NO. 68785				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURE
				FAS 1360 80% FEDERAL 20% STATE	S.N. 102-0069 80% FEDERAL 20% STATE
				CONSTRUCTION TYPE CODE	
				0004	0011
50200100	STRUCTURE EXCAVATION	CU YD	64		64
50300225	CONCRETE STRUCTURES	CU YD	65.2		65.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	303.5		303.5
50300260	BRIDGE DECK GROOVING	SQ YD	597		597
50300280	CONCRETE ENCASEMENT	CU YD	5.6		5.6
50300300	PROTECTIVE COAT	SQ YD	761		761
50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	824		824
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	69790		69790
50800515	BAR SPLICERS	EACH	64		64
51201500	FURNISHING STEEL PILES HP10X57	FOOT	656		656
51202305	DRIVING PILES	FOOT	656		656
51203500	TEST PILE STEEL HP 10X57	EACH	1		1
51204650	PILE SHOES	EACH	16		16
51500100	NAME PLATES	EACH	1		1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	
54020503	PRECAST CONCRETE BOX CULVERTS 5' X 3' (M273)	FOOT	46	46	
542A1060	PIPE CULVERTS, CLASS A, TYPE 2 15"	FOOT	40	40	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	107		107
60208250	CATCH BASINS, TYPE C, TYPE 37M GRATE	EACH	1	1	
60500050	REMOVING CATCH BASINS	EACH	1	1	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	512.5	512.5	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	794	794	
66700205	PERMANENT SURVEY MARKERS, TYPE 1	EACH	1		1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	0.5	0.5	

* SPECIALTY ITEM

USER NAME = #USER#	DESIGNED -	REVISED -
FLUT SCALE = 1/8" = 1' IN.	DRAWN -	REVISED -
FLUT DATE = 10/27/2010	CHECKED -	REVISED -
	DATE -	REVISED -

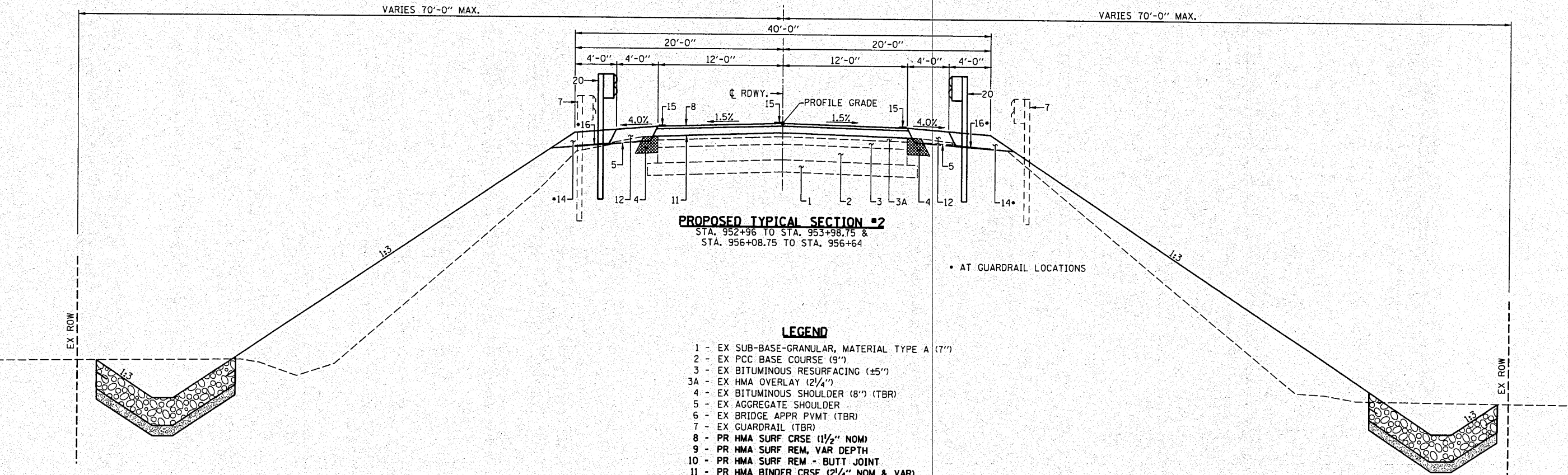
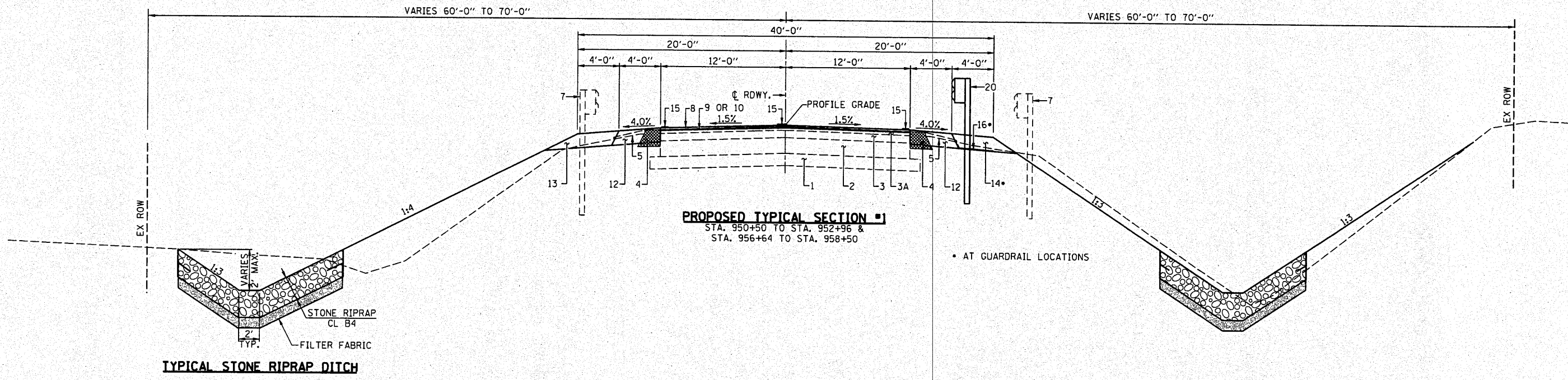


Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68785	



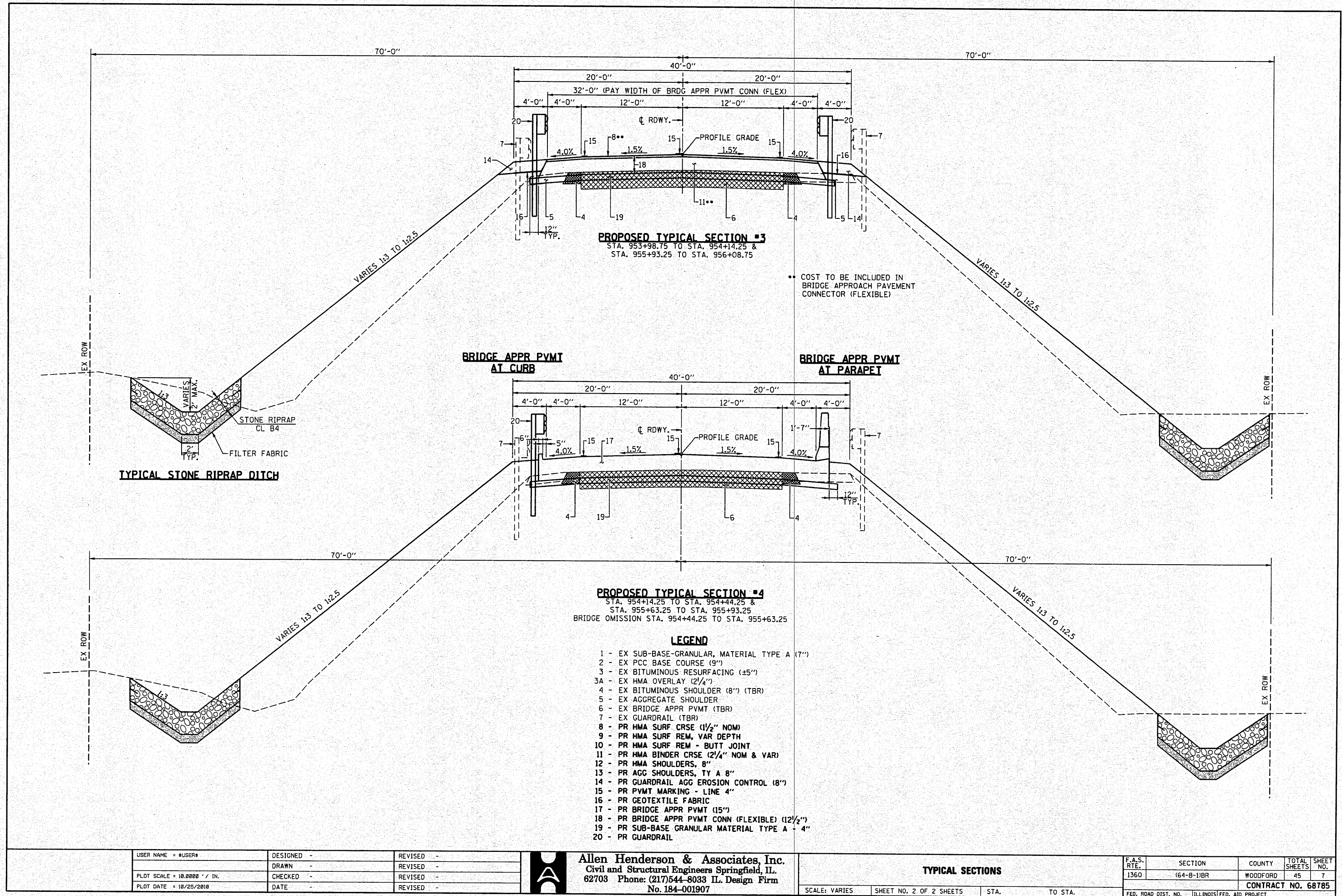
- LEGEND**
- 1 - EX SUB-BASE-GRANULAR, MATERIAL TYPE A (7")
 - 2 - EX PCC BASE COURSE (9")
 - 3 - EX BITUMINOUS RESURFACING (±5")
 - 3A - EX HMA OVERLAY (2 1/4")
 - 4 - EX BITUMINOUS SHOULDER (8") (TBR)
 - 5 - EX AGGREGATE SHOULDER
 - 6 - EX BRIDGE APPR PVMT (TBR)
 - 7 - EX GUARDRAIL (TBR)
 - 8 - PR HMA SURF CRSE (1 1/2" NOM)
 - 9 - PR HMA SURF REM, VAR DEPTH
 - 10 - PR HMA SURF REM - BUTT JOINT
 - 11 - PR HMA BINDER CRSE (2 1/4" NOM & VAR)
 - 12 - PR HMA SHOULDERS, 8"
 - 13 - PR AGG SHOULDERS, TY A 8"
 - 14 - PR GUARDRAIL AGG EROSION CONTROL (8")
 - 15 - PR PVMT MARKING - LINE 4"
 - 16 - PR GEOTEXTILE FABRIC
 - 17 - PR BRIDGE APPR PVMT (15")
 - 18 - PR BRIDGE APPR PVMT CONN (FLEXIBLE) (12 1/2")
 - 19 - PR SUB-BASE GRANULAR MATERIAL TYPE A - 4"
 - 20 - PR GUARDRAIL

USER NAME = #USER#	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10,0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/25/2010	DATE -	REVISED -

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 No. 184-001907

TYPICAL SECTIONS		
SCALE: VARIES	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.

F.A.S. RTE. 1360	SECTION 64-B-1BR	COUNTY WOODFORD	TOTAL SHEETS 45	SHEET NO. 6
CONTRACT NO. 68785				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



PROPOSED TYPICAL SECTION #3
 STA. 953+98.75 TO STA. 954+14.25 &
 STA. 955+93.25 TO STA. 956+08.75

•• COST TO BE INCLUDED IN
 BRIDGE APPROACH PAVEMENT
 CONNECTOR (FLEXIBLE)

**BRIDGE APPR PVMT
 AT CURB**

**BRIDGE APPR PVMT
 AT PARAPET**

PROPOSED TYPICAL SECTION #4
 STA. 954+14.25 TO STA. 954+44.25 &
 STA. 955+63.25 TO STA. 955+93.25
 BRIDGE OMISSION STA. 954+44.25 TO STA. 955+63.25

LEGEND

- 1 - EX SUB-BASE-GRANULAR, MATERIAL TYPE A (7")
- 2 - EX PCC BASE COURSE (9")
- 3 - EX BITUMINOUS RESURFACING (±5")
- 3A - EX HMA OVERLAY (2 1/4")
- 4 - EX BITUMINOUS SHOULDER (8") (TBR)
- 5 - EX AGGREGATE SHOULDER
- 6 - EX BRIDGE APPR PVMT (TBR)
- 7 - EX GUARDRAIL (TBR)
- 8 - PR HMA SURF CRSE (1 1/2" NOM)
- 9 - PR HMA SURF REM, VAR DEPTH
- 10 - PR HMA SURF REM - BUTT JOINT
- 11 - PR HMA BINDER CRSE (2 1/4" NOM & VAR)
- 12 - PR HMA SHOULDERS, 8"
- 13 - PR AGG SHOULDERS, TY A 8"
- 14 - PR GUARDRAIL AGG EROSION CONTROL (8")
- 15 - PR PVMT MARKING - LINE 4"
- 16 - PR GEOTEXTILE FABRIC
- 17 - PR BRIDGE APPR PVMT (15")
- 18 - PR BRIDGE APPR PVMT CONN (FLEXIBLE) (12 1/2")
- 19 - PR SUB-BASE GRANULAR MATERIAL TYPE A - 4"
- 20 - PR GUARDRAIL

USER NAME = *USER*	DESIGNED -	REVISED -
FLDT SCALE = 10.0000' / IN.	DRAWN -	REVISED -
FLDT DATE = 10/25/2010	CHECKED -	REVISED -
	DATE -	REVISED -

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TYPICAL SECTIONS			
SCALE: VARIES	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

F.A.S. RTE. 1360	SECTION 164-B-1BR	COUNTY WOODFORD	TOTAL SHEETS 45	SHEET NO. 7
CONTRACT NO. 68785				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SEEDING SCHEDULE					
LOCATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
	ACRE	POUND	POUND	POUND	ACRE
STA 950+50 TO STA 954+34.25 LT	0.20	18.00	18.00	18.00	0.20
STA 955+73.25 TO STA 958+50 LT	0.15	13.50	13.50	13.50	0.15
STA 950+50 TO STA 954+34.25 RT	0.30	27.00	27.00	27.00	0.30
STA 955+73.25 TO STA 958+50 RT	0.15	13.50	13.50	13.50	0.15
TOTAL	0.80	72	72	72	0.80

EARTHWORK SCHEDULE					
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJ FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL FURNISH AND PLACE, 4"
	CU YD	CU YD	CU YD	CU YD	SO YD
STA 950+50 TO STA 954+44.25	360	270	547	-277	1935
STA 955+63.25 TO STA 958+50	211	158	539	-381	1510
TOTAL	571	428	1086	-658	3445

HMA PAVEMENT SCHEDULE		
LOCATION	HMA BINDER CRSE, IL-19.0, N50	HMA SURFACE CRSE, MIX "D", N50
	TON	TON
STA 950+50 TO STA 953+98.75		78.5
STA 956+08.75 TO STA 958+50		54.5
STA 952+96 TO STA 953+30	11.6	
STA 953+30 TO STA 953+98.75	143.2	
STA 956+08.75 TO STA 956+29	42.2	
STA 956+29 TO STA 956+64	12.0	
TOTAL	209	133

POLMERIZED BITUMINOUS MATERIALS (PRIME COAT) SCHEDULE	
LOCATION	QUANTITY
	TON
STA 950+50 TO STA 953+30 (MILLED)	0.25
STA 952+96 TO STA 954+14.25 (FOG)	0.06
STA 953+30 TO STA 953+98.75 (EX PVMT)	0.04
STA 955+93.25 TO STA 956+64 (FOG)	0.04
STA 956+08.75 TO STA 956+29 (EX PVMT)	0.01
STA 956+29 TO STA 958+50 (MILLED)	0.20
TOTAL	0.60

PAVEMENT MARKING SCHEDULE		
LOCATION	EPOXY PAVEMENT MARKING	
	SKIP-DASH (10'/30') YELLOW 4"	SOLID WHITE 4"
	FOOT	FOOT
STA 950+50 TO STA 958+50 LT		800
STA 950+50 TO STA 958+50 CENTERLINE	200	
STA 950+50 TO STA 958+50 RT		800
SUB-TOTAL	200	1600
TOTAL		1800

SUB-BASE GRANULAR MATERIAL, TYPE A SCHEDULE	
LOCATION	QUANTITY
	TON
STA 953+98.75 TO STA 954+11.25	43
STA 954+21.25 TO STA 954+34.11	35
STA 955+78.25 TO STA 955+86.25	22
STA 955+96.25 TO STA 956+08.75	33
TOTAL	133

BRDG APPR PVMT CONN (FLEX) SCHEDULE	
LOCATION	QUANTITY
	SO YD
STA 953+98.75 TO STA 954+14.25	55.5
STA 955+93.25 TO STA 956+08.75	55.5
TOTAL	111

CHANNEL EXCAVATION SCHEDULE	
LOCATION	QUANTITY
	CU YD
STA. 954+44.25 TO STA. 955+63.25, 67.5 LT TO 69' RT	412
TOTAL	412

REMOVAL ITEMS SCHEDULE							
LOCATION	PAVED SHOULDER REMOVAL	PAVED DITCH REMOVAL	APPR SLAB REMOVAL	HMA SURF REMOVAL - BUTT JOINT	HMA SURF REMOVAL - VAR DEPTH	PIPE CULVERT REMOVAL	REMOVAL CATCH BASINS
	SO YD	FOOT	SO YD	SO YD	SO YD	FOOT	EACH
STA 950+50 TO STA 950+80				80			
STA 950+80 TO STA 952+96					576		
STA 952+96 TO STA 953+30				91			
STA 956+29 TO STA 956+64				94			
STA 956+64 TO STA 958+20					416		
STA 958+20 TO STA 958+50				80			
STA 953+98.75 TO STA 954+38.75			107				
STA 955+68.75 TO STA 956+08.75			107				
STA 950+50 TO STA 954+38.75 LT & RT	130						
STA 955+68.75 TO STA 958+50 LT & RT	94						
STA 951+00 TO STA 951+29 LT		29					
STA 951+77 TO STA 954+35 LT		258					
STA 956+13 TO STA 957+45 LT		132					
STA 952+00 TO STA 954+02 RT		202					
STA 955+92 TO STA 957+88 RT		206					
PE STA 951+51 LT, 30" CMP						46	
PE STA 951+51 LT, 42" CMP						46	
PE STA 957+64 LT, 12" RCCP						38	
STA 957+81, 32.4' LT							1
TOTAL	224	827	214	345	992	130	1

SHOULDER SCHEDULE			
LOCATION	AGGREGATE SHOULDERS, TY A 8"	GUARDRAIL AGG EROS CONTROL	HMA SHOULDERS, 8"
	SO YD	TON	SO YD
STA 950+50 TO STA 951+12.5 LT	25.5		
STA 951+67.65 TO STA 952+48.60 LT	51.0		
STA 952+48.60 TO STA 954+14.25 LT		41	
STA 955+93.25 TO STA 957+57.62 LT		42	
STA 957+77.60 TO STA 958+50 LT	31.5		
STA 950+50 TO STA 951+23.60 RT	32.7		
STA 951+23.60 TO STA 954+14.25 RT		59	
STA 955+93.25 TO STA 958+08.90 RT		44	
STA 958+08.90 TO STA 958+50 RT	18.3		
STA 950+50 TO STA 953+98.75 LT			182.6
STA 956+08.75 TO STA 958+50 LT			107.2
STA 950+50 TO STA 953+98.75 RT			155.0
STA 956+08.75 TO STA 958+50 RT			107.2
TOTAL	159	186	552

AGG SURF CRSE, TY B SCHEDULE	
LOCATION	QUANTITY
	TON
PE STA 951+52.2 LT	28
PE STA 957+64.6 LT	23
TOTAL	51

MATERIAL TRANSFER DEVICE SCHEDULE	
LOCATION	QUANTITY
	TON
STA. 950+50 TO STA. 952+96	55.5
STA. 952+96 TO STA. 953+98.75	58.4
STA. 956+08.75 TO STA. 956+64	31.4
STA. 956+64 TO STA. 958+50	42
TOTAL	187.3

GUARDRAIL SCHEDULE						
LOCATION	SPBGR TY A, 6' POSTS	TBT, TY 6	TBT, TY 1 (SPECIAL) TANGENT	TBT, TY 1 (SPECIAL) FLARED	GUARDRAIL REMOVAL	TERMINAL MARKER- DIRECT APPLIED
	FOOT	EACH	EACH	EACH	FOOT	EACH
STA 952+48.60 LT						1
STA 952+48.60 TO STA 952+98.60 LT				1		
STA 952+98.60 TO STA 953+86.10 LY	87.5					
STA 953+86.10 TO STA 954+29.25 LT		1				
STA 955+78.25 TO STA 956+21.40 LT		1				
STA 956+21.40 TO STA 956+96.40 LT	75					
STA 956+96.40 TO STA 957+46.40 LT				1		
STA 957+46.40 LT						1
STA 951+23.60 RT						1
STA 951+23.60 TO STA 951+73.60 RT			1			
STA 951+73.60 TO STA 953.86.10 RT	212.5					
STA 953+86.40 TO STA 954.29.25 RT		1				
STA 955+78.25 TO STA 956+21.40 RT		1				
STA 956+21.40 TO STA 957+58.90 RT	137.5					
STA 357+58+90 TO STA 958+08.90 RT			1			
STA 958+00 TO STA 08.90 RT						1
STA 955+70 TO STA 954+37 LT					187	
STA 955+70 TO STA 957+44 LT					174	
STA 951+90 TO STA 954+37 RT					247	
STA 95+70 TO STA 957.56					186	
TOTAL	512.5	4	2	2	794	4

DRAINAGE STRUCTURES SCHEDULE					
LOCATION	BOX CULV END SECTIONS, CULV NO. 1	PRECAST CONC BOX CULV 5'X3' (M273)	PIPE CULV, TY 2 RCCP 15"	PRCFES 15"	CATCH BASIN, TY C, TY 37M GRATE
	EACH	FOOT	FOOT	EACH	EACH
STA 951+30 LT	1				
STA 951+30 TO 951+75.8 LT		46			
STA 951+75.8 LT	1				
STA 957+41.8 LT				1	
STA 957+41.8 TO STA 957+81.0			40		
STA 957+81.0 LT					1
TOTAL	2	46	40	1	1

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE		
LOCATION	RRPM	RRPM REMOVAL
	EACH	EACH
STA 950+50 TO STA 954+14.25	5	5
STA 954+14.25 TO STA 955+93.25		2
STA 955+53.25 TO STA 958+50	4	4
TOTAL	9	11

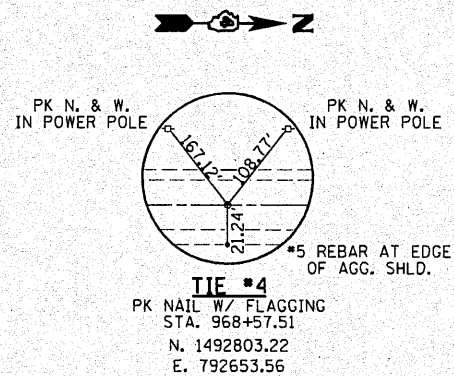
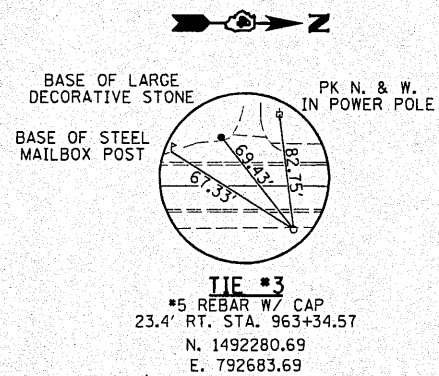
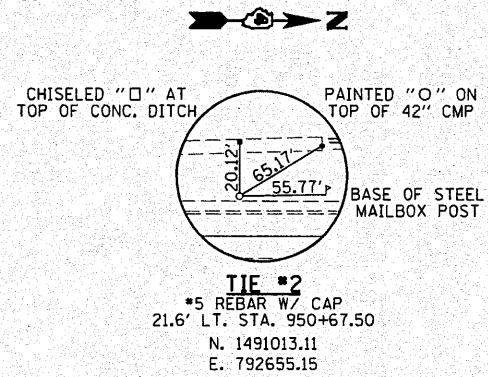
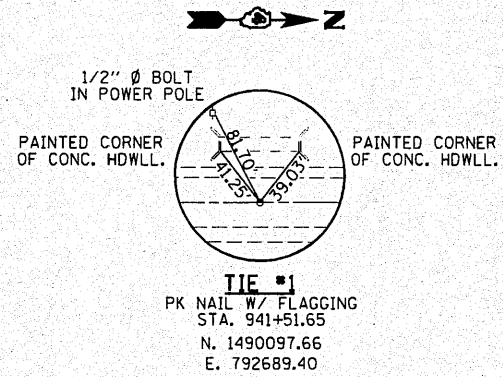
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	PLOT DATE = 10/25/2010	DATE -	REVISED -



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SCHEDULE OF QUANTITIES	
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

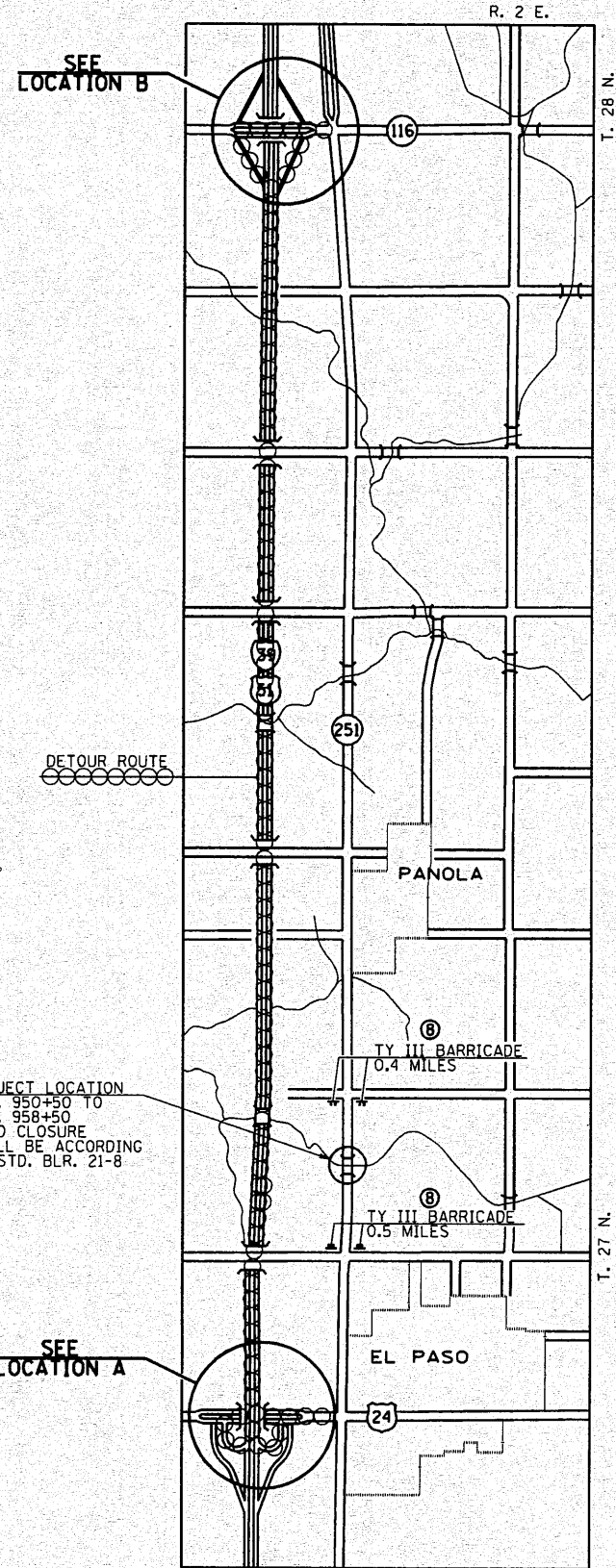
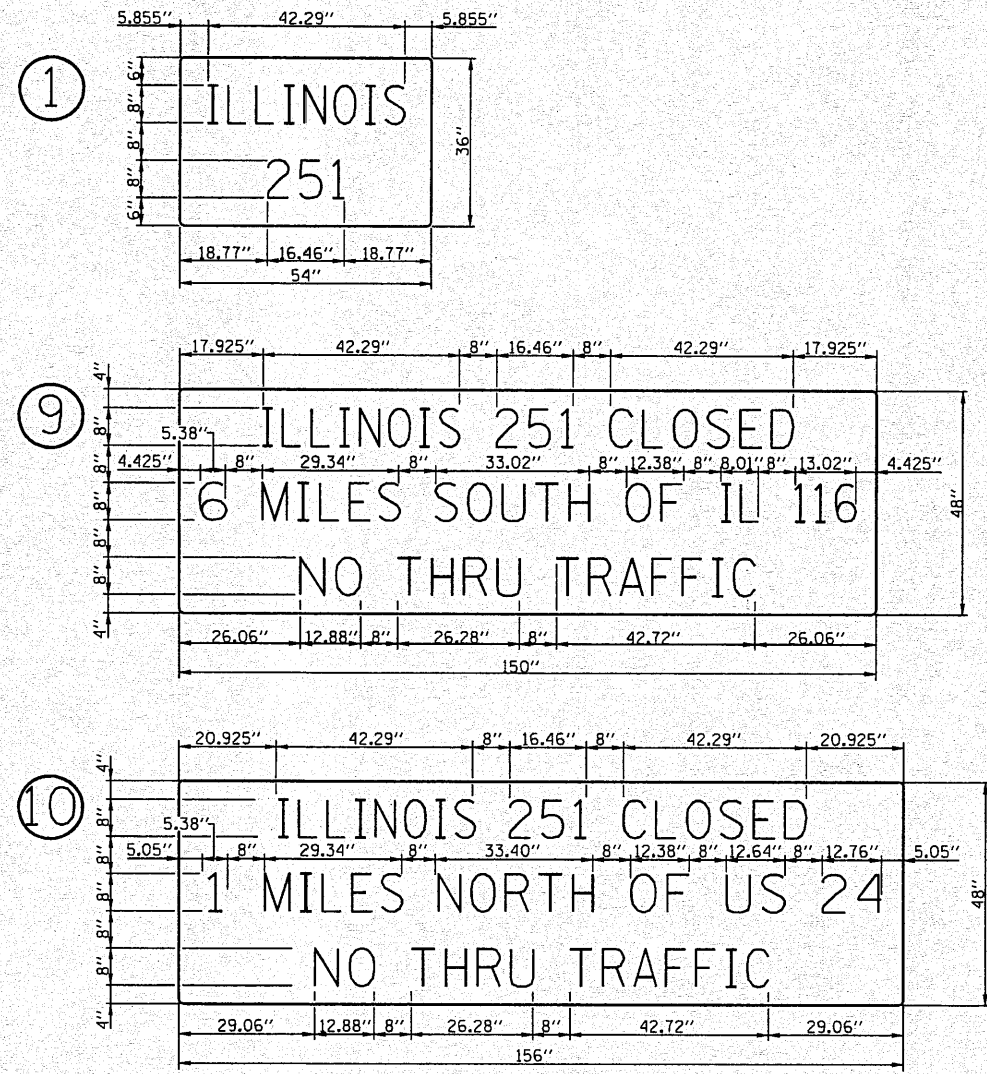
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	9
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68785	



BENCHMARKS

- BM #1 - CHISELED "□" IN WINGWALL AT N.E. CORNER OF BRIDGE
STA. 954+41.3, 19.65' LT., EL. = 702.22
- BM #2 - CHISELED "□" IN WINGWALL AT S.W. CORNER OF BRIDGE
STA. 955+66.00, 20.20' RT., EL. = 701.29
- BM #3 - R.R. SPIKE IN EAST SIDE OF POWERPOLE
STA. 957+03.6, 60.35' LT., EL. = 703.44

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	CROSS TIES & BENCHMARKS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 2.0000' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	1360	(64-B-1)BR	WOODFORD	45	10
	PLOT DATE = 10/25/2010	CHECKED -	REVISED -										
		DATE -	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



DETOUR PLAN

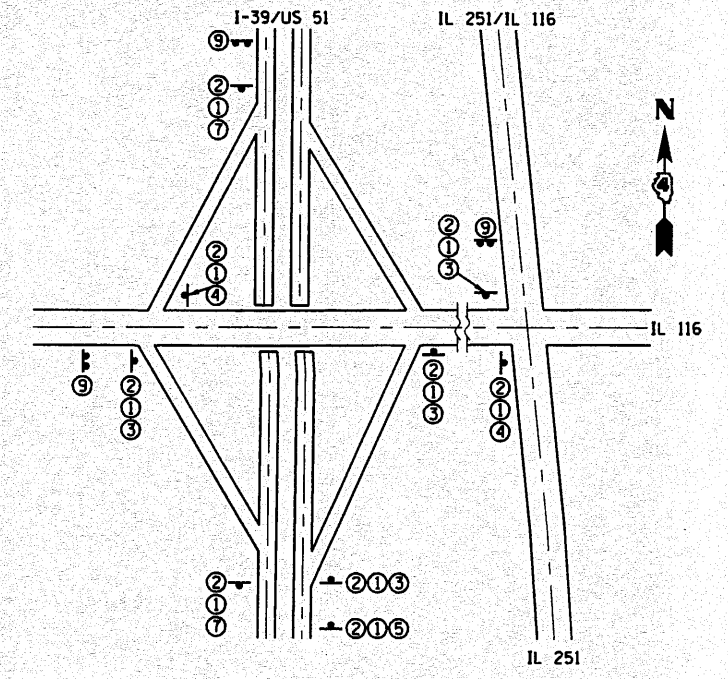
THE WORK INCLUDED IN SECTION 65 BR CONSISTS OF REMOVING AND REPLACING THE EXISTING STRUCTURE. THIS REPLACEMENT WILL REQUIRE FAS 1360 (IL 251) TO BE DETOURED.

THE DETOUR WILL CONSIST OF:
 IL 116 - 0.5 MILES
 I-39 - 8.0 MILES
 US 24 - 0.5 MILES
 TOTAL - 9.0 MILES (ADVERSE TRAVEL DISTANCE 0.9 MILES)

CONTACTS FOR CLOSURE

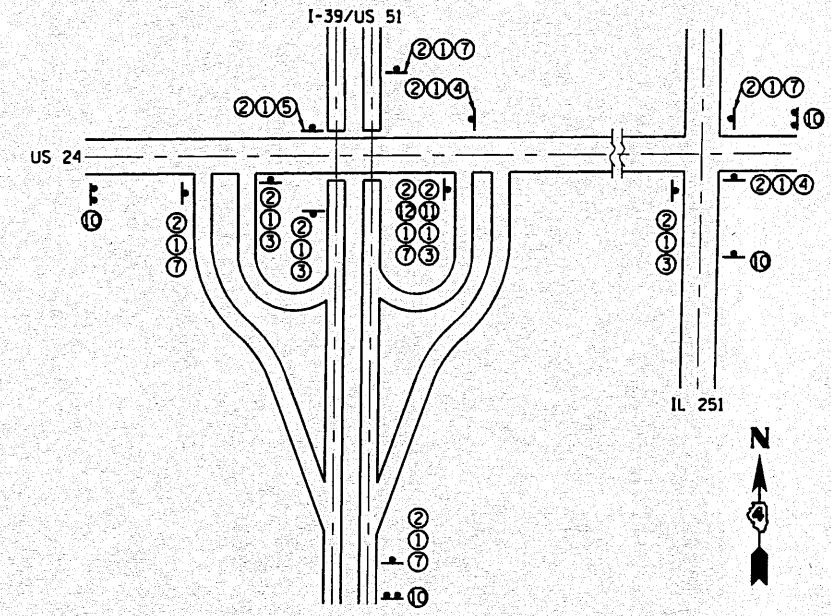
THE FOLLOWING ORGANIZATIONS SHALL BE NOTIFIED SEVEN (7) DAYS PRIOR TO CLOSING OF IL ROUTE 251

- | | | |
|---|--|--|
| POSTMASTER JERRY BASSI
UNITED STATES POST OFFICE
401 WEST FRONT STREET
EL PASO, IL 61738
PHONE (309) 527-4220 | POSTMASTER LARRY MILES
UNITED STATES POST OFFICE
160 WEST 5TH STREET
MINONK, IL 61760
PHONE (309) 432-2848 | SUPERINTENDENT JAMES MILLER
EL PASO-GRIDLEY CUSD #11
97 WEST 5TH STREET
EL PASO, IL 61738
PHONE (309) 527-4410 |
| CAPTAIN DEAN KENNEDY
ILLINOIS STATE POLICE
1265 LOURDES ROAD
METAMORA, IL 61548
PHONE (309) 383-2133 | CHIEF JEFF PRICE
EL PASO POLICE DEPARTMENT
540 EAST MAIN STREET
EL PASO, IL 61738
PHONE (309) 527-5340 | SHERIFF JIM PIERCEALL
WOODFORD COUNTY SHERIFF DEPARTMENT
111 EAST COURT STREET
EUREKA, IL 61530
PHONE (309) 467-2375 |
| FIRE CHIEF DALE UPHOFF
EL PASO FIRE PROTECTION DISTRICT
P.O. BOX 56
EL PASO, IL 61738
PHONE (309) 527-2555 | CAPTAIN JOHN LONGMAN
EL PASO EMERGENCY SQUAD
P.O. BOX 194
EL PASO, IL 61738
PHONE (309) 527-6145 | MR. JOHN HOEHL
WOODFORD COUNTY ENGINEER
301 SOUTH MAIN STREET
P.O. BOX 467
ROANOKE, IL 61561
PHONE (309) 923-2891 |



LOCATION B

- | | | | |
|---|-----------------------------|--|--------------------------------------|
| ① ILLINOIS 251
54" X 36"
20 SIGNS | ⑦ 30" X 18" M6-3
6 SIGNS | ⑧ ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY
60" X 30"
2 SIGNS
ONE SIGN WILL READ 0.4 MILES
ONE SIGN WILL READ 0.5 MILE R11-3a | ⑪ NORTH
30" X 15"
1 SIGN M3-1 |
| ② DETOUR
30" X 15"
20 SIGNS M4-8 | ④ 30" X 18" M6-1
4 SIGNS | ⑨ IL 251 CLOSED 6 MILES SOUTH OF IL 116 NO THRU TRAFFIC
150" X 48"
3 SIGNS | ⑫ SOUTH
30" X 15"
1 SIGN M3-13 |
| ③ 30" X 18" M6-1
8 SIGNS | ⑤ 30" X 18" M5-1
2 SIGNS | ⑩ IL 251 CLOSED 1 MILE NORTH OF US 24 NO THRU TRAFFIC
156" X 48"
4 SIGNS | |
| ④ 30" X 18" M6-1
4 SIGNS | ⑤ 30" X 18" M5-1
0 SIGNS | | |

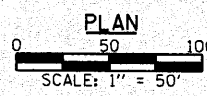
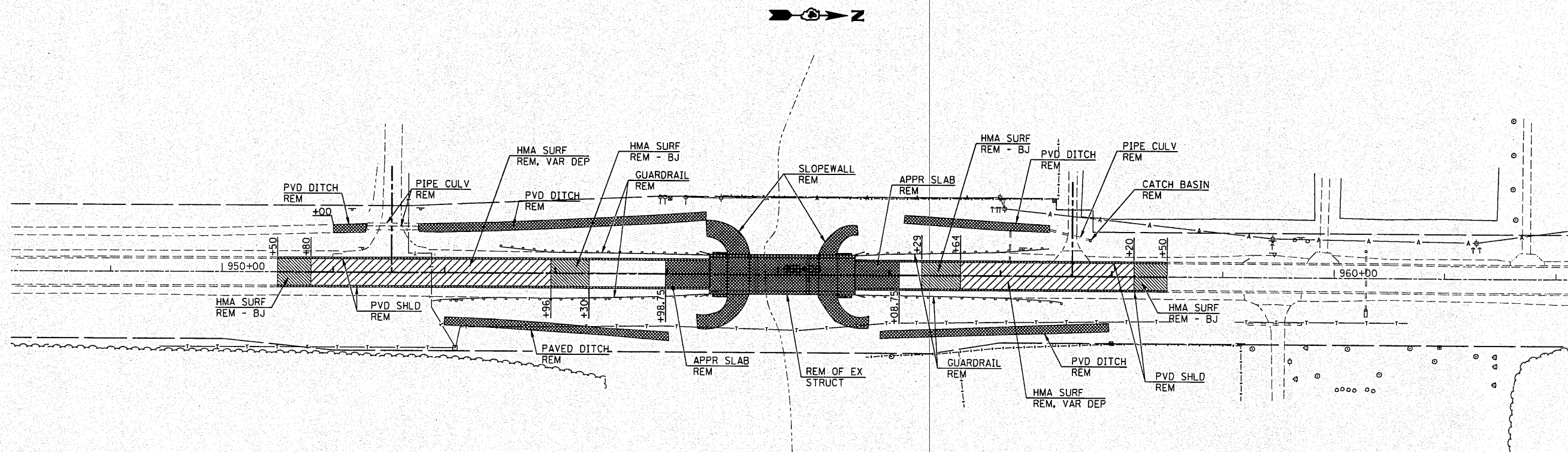


LOCATION A

USER NAME = #USER#	DESIGNED -	REVISED -
DRAWN -	CHECKED -	REVISED -
PLOT SCALE = 2.0000' / IN.	DATE -	REVISED -
PLOT DATE = 10/25/2010		

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DETOUR PLAN		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE		1360	(64-B-1)BR	WOODFORD	45	11
SHEET NO. 1 OF 1 SHEETS		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
STA. TO STA.		CONTRACT NO. 68785				



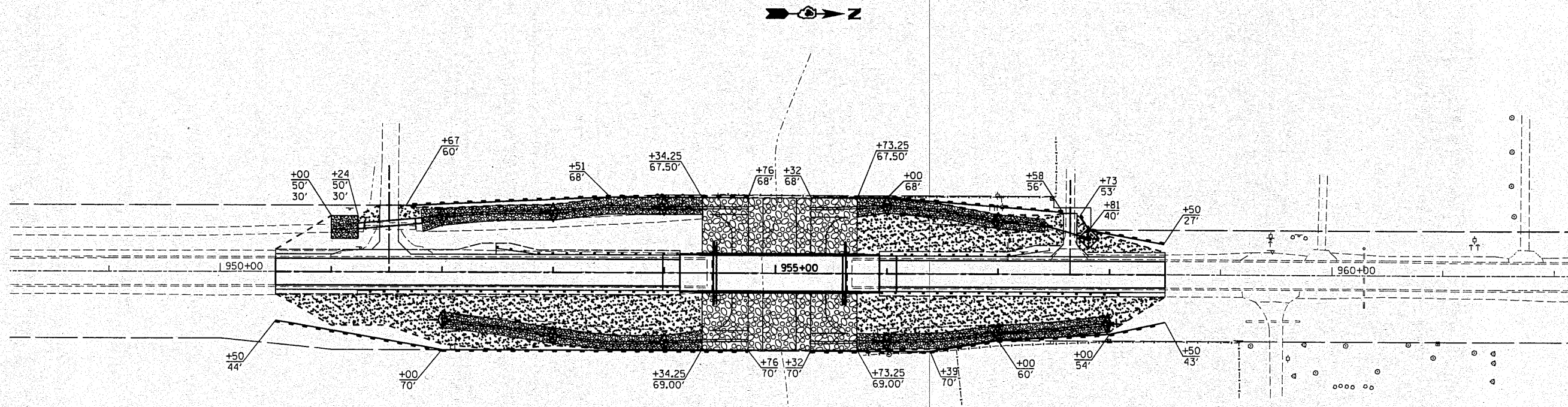
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	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/25/2010	DATE -	REVISED -



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REMOVAL PLAN			
SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

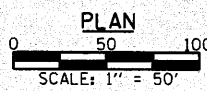
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68785	



RIPRAP SCHEDULE

LOCATION	STONE RIPRAP, CLASS B4	STONE RIPRAP, CLASS A5	FILTER FABRIC
	TON	SQ YD	SQ YD
STA. 951+00 TO STA. 951+24 LT.	38		57
STA. 951+81 TO STA. 954+34.25 LT.	285.5		429
STA. 955+73.25 TO STA. 957+42 LT.	169.5		255
STA. 952+00 TO STA. 954+34.25	245		368
STA. 955+73.25 TO STA. 958+00 RT.	237		356
STA. 954+34.25 TO STA. 955+73.25, 67.5' LT. TO 69' RT.		*2125	*2125
TOTAL	975	2125	3590

*STRUCTURE PAY ITEM



TEMPORARY EROSION CONTROL ITEMS SCHEDULE

LOCATION	TEMP EROS CONTROL SEEDING (4 APPLICATIONS)	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET & PIPE PROTECTION
	POUND	FOOT	FOOT	EACH
STA. 950+50 TO STA. 954+34.25 LT.	20x4 = 80			
STA. 955+73.25 TO STA. 958+50 LT.	15x4 = 60			
STA. 950+50 TO STA. 954+34.25 RT.	30x4 = 120			
STA. 955+73.25 TO STA. 958+50 RT.	15x4 = 60			
STA. 952+00 LT. & RT.		30		
STA. 953+00 LT. & RT.		30		
STA. 954+00 LT. & RT.		30		
STA. 956+00 LT. & RT.		30		
STA. 957+00 LT. & RT.		30		
STA. 958+00 LT. & RT.		15		
STA. 951+67 TO STA. 954+76 LT.			309	
STA. 955+32 TO STA. 957+58 LT.			227	
STA. 957+73 TO STA. 958+50 LT.			84	
STA. 950+50 TO STA. 954+76 RT.			428	
STA. 955+32 TO STA. 958+50 RT.			320	
STA. 957+81, 32.5' LT.				1
TOTAL	320	165	1368	1

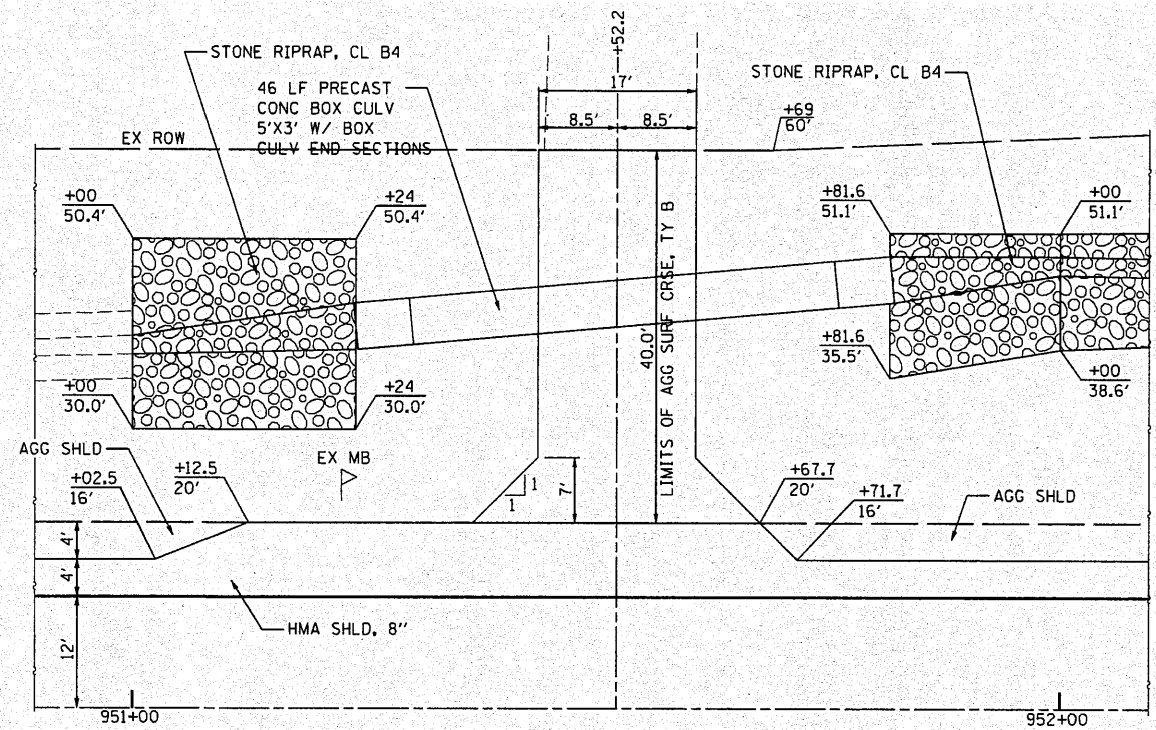
LEGEND

- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER
- *STONE RIPRAP, CLASS A5
- STONE RIPRAP, CLASS B4
- TEMPORARY EROSION CONTROL SEEDING

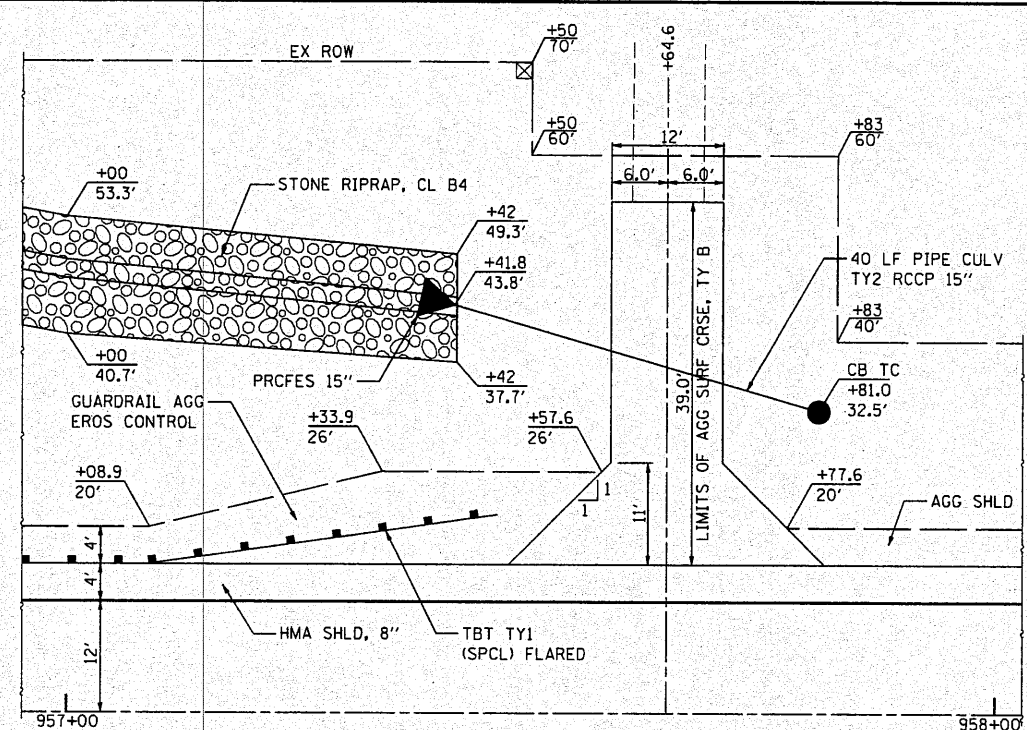
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

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 No. 184-001907

EROSION CONTROL PLAN				
SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	
F.A.S. RTE. 1360	SECTION (64-B-1)BR	COUNTY WOODFORD	TOTAL SHEETS 45	SHEET NO. 14
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 68785				

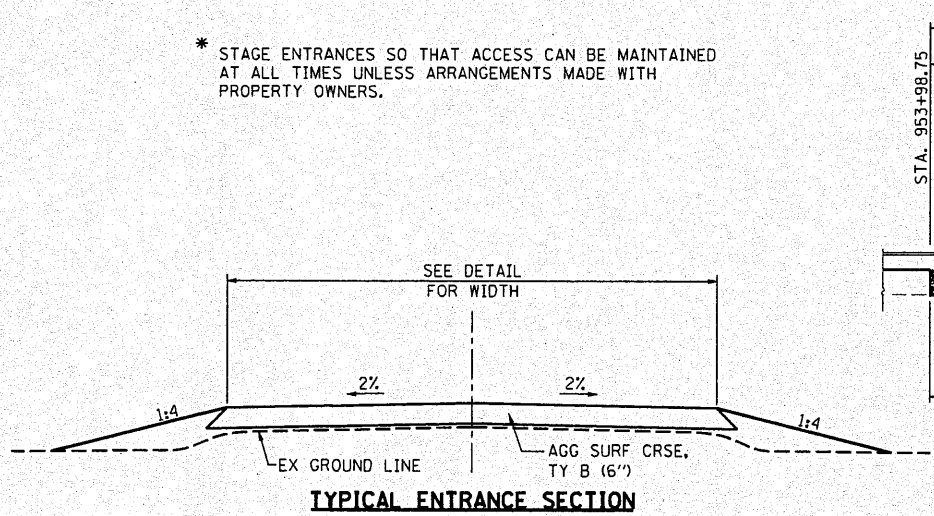


ENTRANCE DETAIL*
PE STA 951+52.2 LT

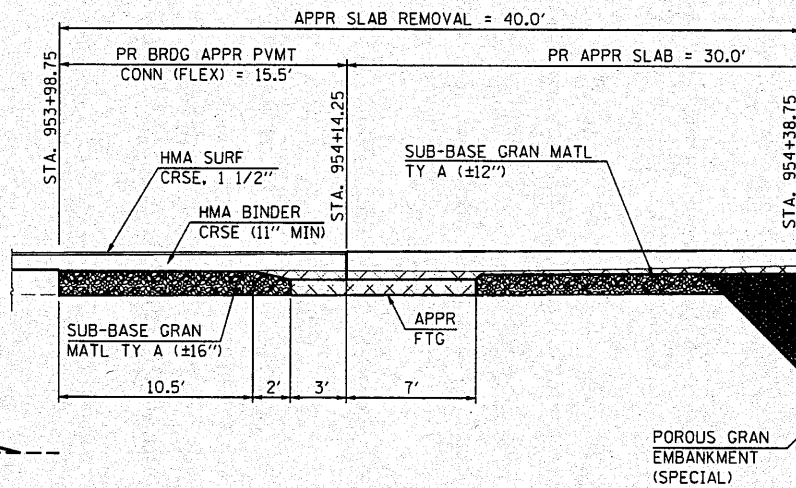


ENTRANCE DETAIL*
PE STA 957+64.6 LT

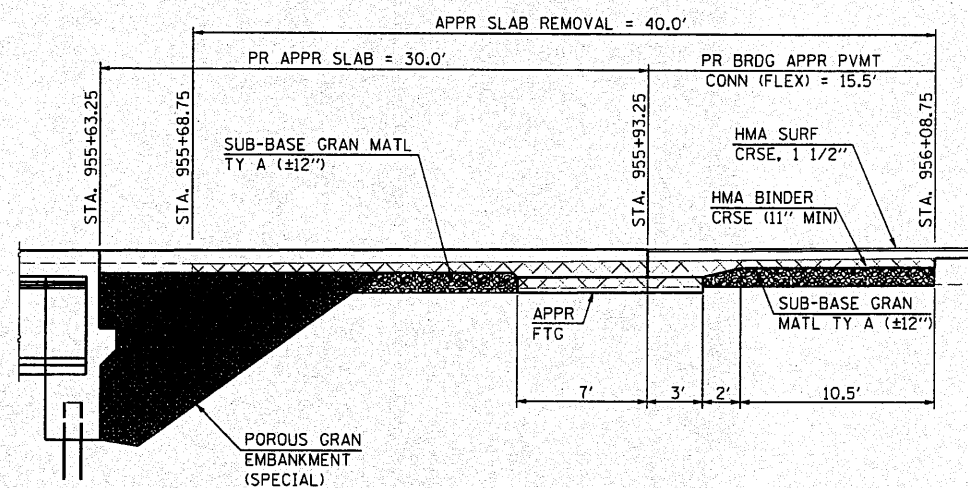
* STAGE ENTRANCES SO THAT ACCESS CAN BE MAINTAINED AT ALL TIMES UNLESS ARRANGEMENTS MADE WITH PROPERTY OWNERS.



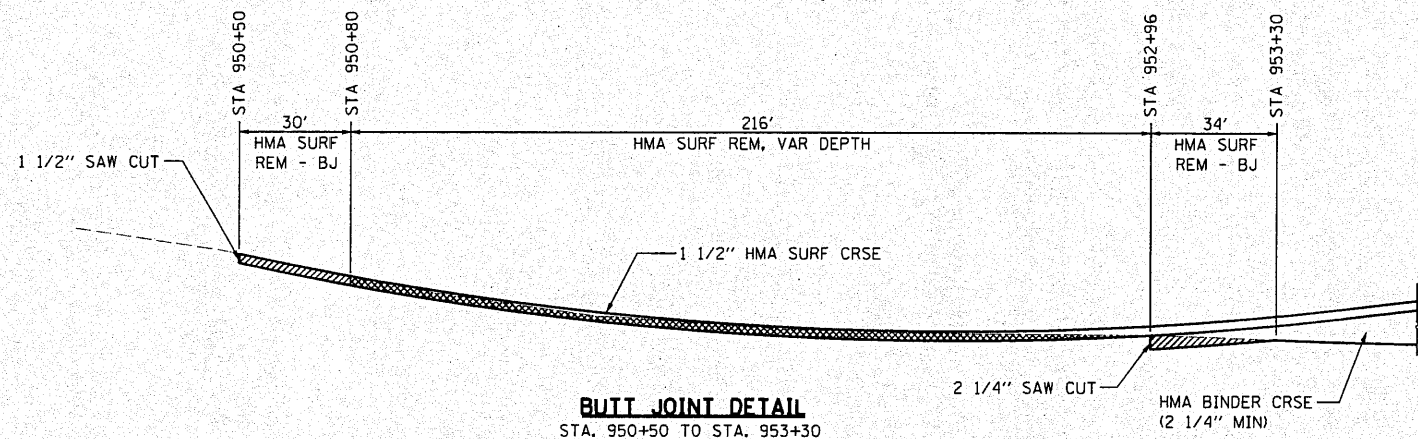
TYPICAL ENTRANCE SECTION



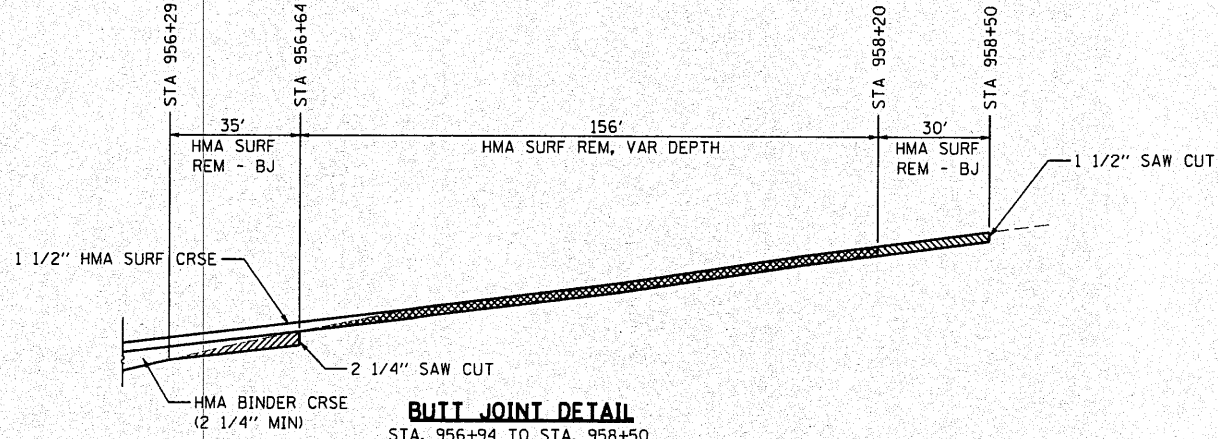
DETAIL AT SOUTH APPROACH SLAB
(STA 953+98.75 TO STA 954+44.25)



DETAIL AT NORTH APPROACH SLAB
(STA 955+63.25 TO STA 956+08.75)



BUTT JOINT DETAIL
STA. 950+50 TO STA. 953+30



BUTT JOINT DETAIL
STA. 956+94 TO STA. 958+50

USER NAME = #USER*	DESIGNED -	REVISED -
DRAWN -	REVISIONS -	REVISIONS -
PLOT SCALE = 28.0000' / IN.	CHECKED -	REVISIONS -
PLOT DATE = 10/25/2010	DATE -	REVISIONS -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

ENTRANCE AND BUTT JOINT DETAILS

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

F.A.S. RTE. 1360	SECTION (64-B-1)BR	COUNTY WOODFORD	TOTAL SHEETS 45	SHEET NO. 15
CONTRACT NO. 68785				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Benchmark: R.R. spike in east side of power pole northwest of Structure 102-0006.
Elevation = 703.44

Existing Structure: S.N. 102-0006 was built in 1963 as S.B.I. Route 2, Section 64B-1 at Sta. 955+03.75.
The structure replaced an 80 ft. long single span truss on closed abutments constructed in 1923. The existing structure is a three span steel I-beam bridge with R.C. pile bent abutments, supported by a single row of concrete piles, and R.C. hammer head piers. ±131'-0" Bk.-Bk. abutments, 40'-0" (Spans 1 & 3) and 46'-6" (Span 2). ±35'-8" Out.-Out. Deck 0° Skew. The structure shall be built under road closure.

No Salvage

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

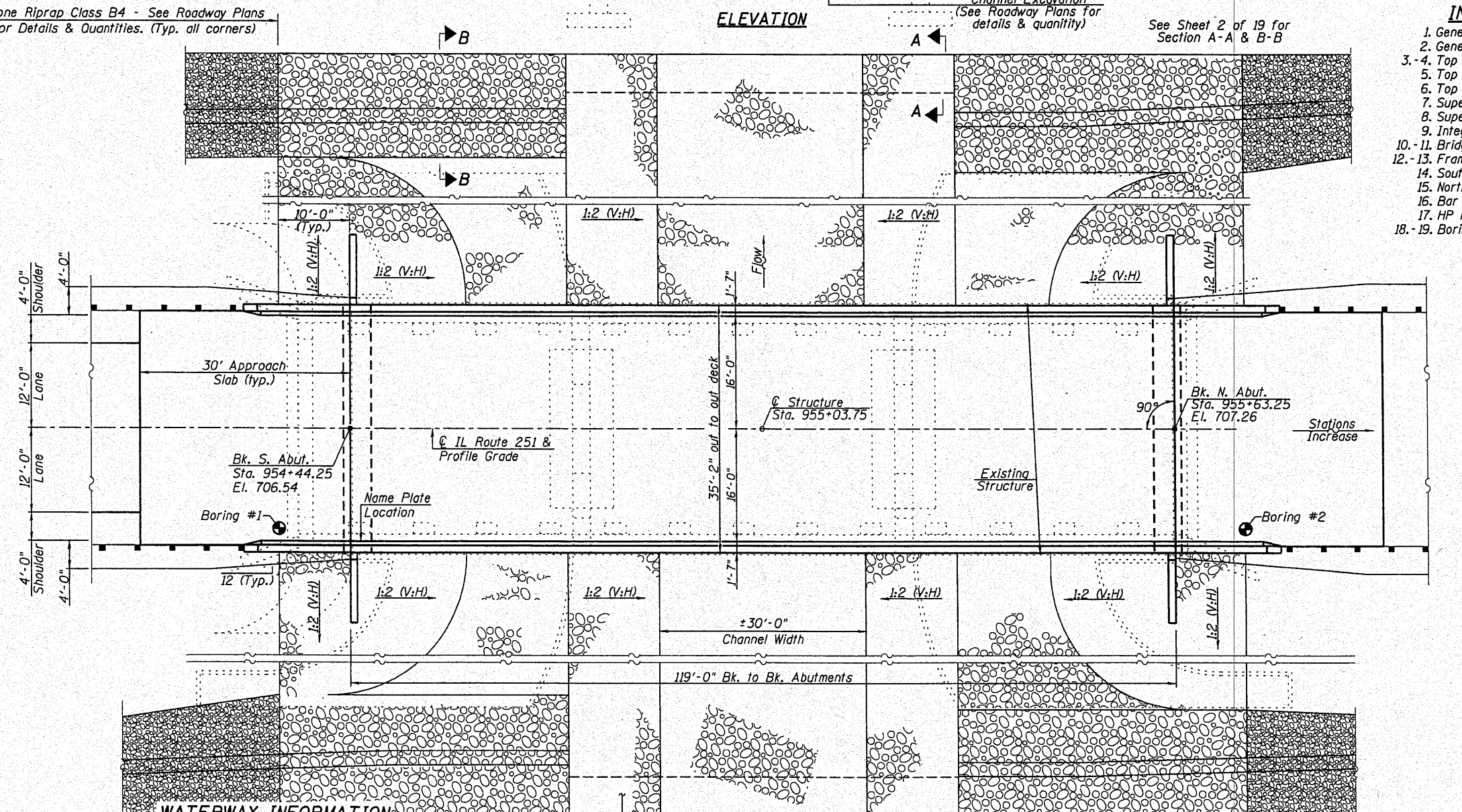
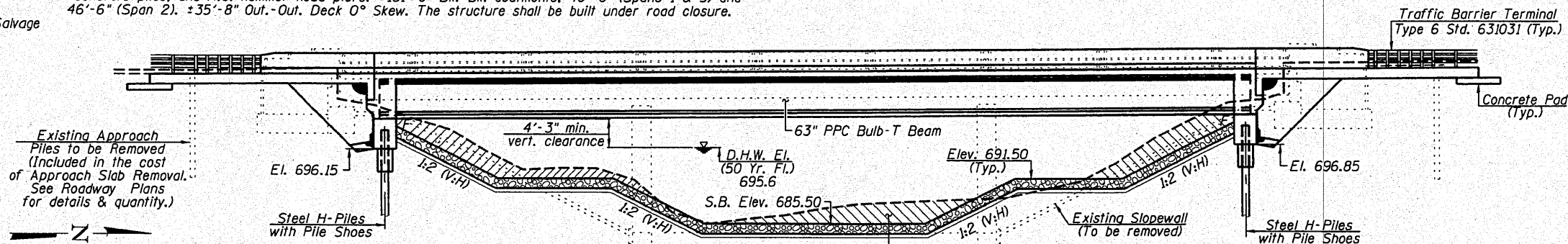
PRECAST PRESTRESSED UNITS

$f'_c = 7,000$ psi
 $f'_{ci} = 6,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " ϕ low lax strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " ϕ low lax strands)

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications, 4th Edition with 2008 & 2009 Interim

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.113g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.180g
Soil Site Class = D



INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
- 3.-4. Top of Slab Elevations
5. Top of South Approach Slab Elevations
6. Top of North Approach Slab Elevations
7. Superstructure
8. Superstructure Details
9. Integral Abutment Diaphragm Details
- 10.-11. Bridge Approach Slab Details
- 12.-13. Framing Plan & Beam Details
14. South Abutment
15. North Abutment
16. Bar Splicer Assembly
17. HP Pile Details
- 18.-19. Boring Logs

APPROVED
For Structural Adequacy Only

R. E. Anderson (TJD)
Engineer of Bridges & Structures

Paul 10/25/2010

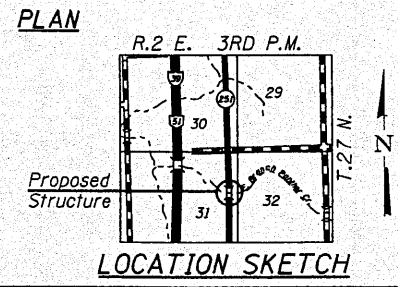
Gerald B. Kottler
Expires 11/30/2010

GENERAL PLAN & ELEVATION
IL ROUTE 251 OVER
EAST PANTHER CREEK
F.A.S. ROUTE 1360 - SEC. (64-B-1)BR
WOODFORD COUNTY
STA. 955+03.75
STRUCTURE NO. 102-0069

WATERWAY INFORMATION

Drainage Area = 32.1 Sq. Mi. Pr. Low Grade Elev. 705.6 @ Sta. 952+50

Flood Yr.	Freq.	C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
0			364	466	694.0	694.0	0.4	0.2	694.4	694.2
10	1644		494	619	695.6	695.6	0.8	0.4	696.4	696.0
Design	50	3093	494	619	695.6	695.6	0.8	0.4	696.4	696.0
Base	100	3888	552	686	696.3	696.3	1.0	0.6	697.3	696.9
Max. Calc.	500	6212	694	851	697.9	697.9	1.7	1.0	699.6	698.9



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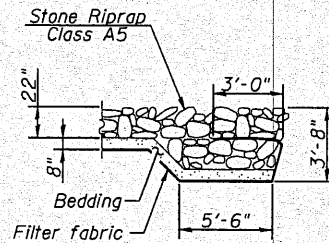
SHEET NO. 1	F.A.S. RTE. 1360	SECTION (64-B-1)BR	COUNTY WOODFORD	TOTAL SHEETS 45	SHEET NO. 16
19 SHEETS	CONTRACT NO. 68785			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT	

TOTAL BILL OF MATERIAL

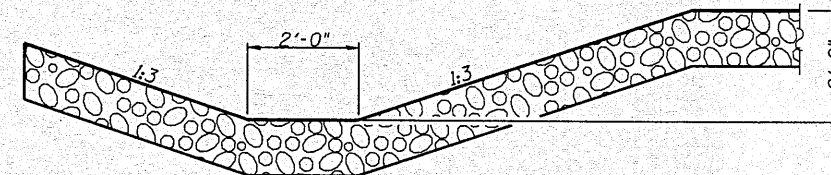
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		236	236
Stone Riprap, Class A5	Sq. Yd.		2125	2125
Filter Fabric	Sq. Yd.		2125	2125
Removal of Existing Structures	Each		1	1
Slopedwall Removal	Sq. Yd.		1328	1328
Structure Excavation	Cu. Yd.		64	64
Concrete Structures	Cu. Yd.		65.2	65.2
Concrete Superstructure	Cu. Yd.	303.5		303.5
Bridge Deck Grooving	Sq. Yd.	597		597
Concrete Encasement	Cu. Yd.		5.6	5.6
Protective Coat	Sq. Yd.	761		761
Furnishing & Erecting P.P.C. Bulb-T Beams 63"	Foot	824		824
Reinforcement Bars, Epoxy Coated	Pound	61590	8200	69790
Bar Splicers	Each	64		64
Furnishing Steel Piles HP 10x57	Foot		656	656
Driving Piles	Foot		656	656
Test Pile Steel HP 10x57	Each		1	1
Pile Shoes	Each		16	16
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		107	107
Pipe Underdrain for Structures, 4"	Foot		155	155
Permanent Survey Markers, Type 1	Each		1	1

GENERAL NOTES

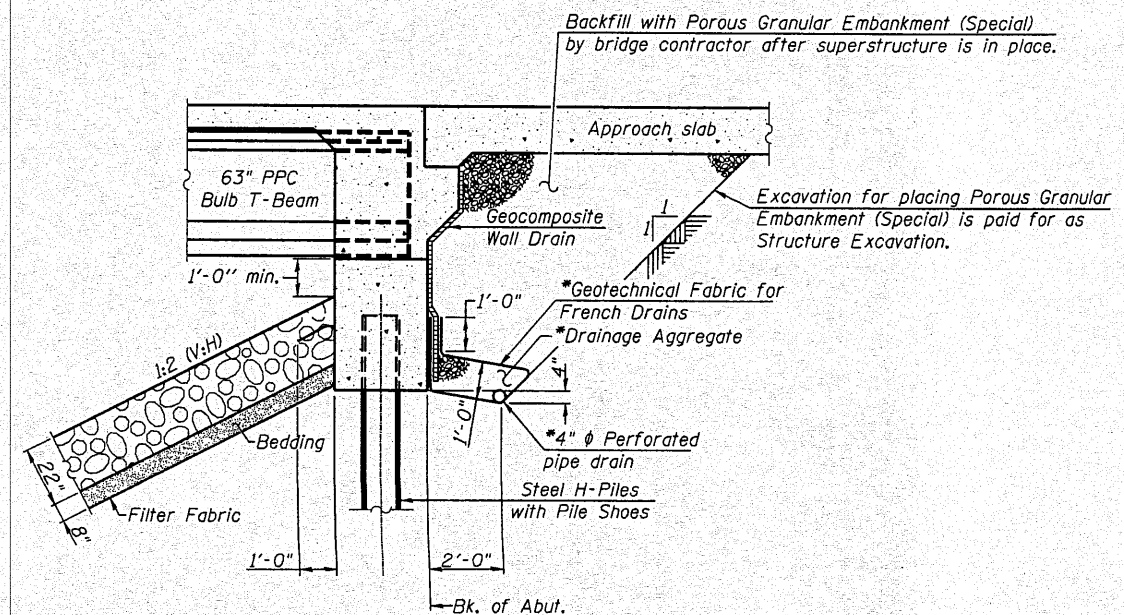
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Slip forming of the parapets is not allowed.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 The piles to be dynamically monitored, according the special provision "Dynamic Pile Monitoring", shall be the test piles specified at each of the substructure unifs. The scheduling of the test pile driving (initial and restrikes) shall be coordinated with the researcher.
 The test pile shall be driven with a Diesel Hammer, possibly at a reduced fuel setting, to a minimal penetration resistance as determined by the researcher. A restrike shall be applied between 1 and 24 hours after end of initial driving. A second restrike shall occur at least 7 days later and preferably much later when production piling is completed for that stage in each substructure. Restrikes will consist of up to 30 hammer blows, or up to 3 inches of pile penetration. The hammer shall be warmed up before restriking the test pile on another pile or surface as directed by the researcher.



SECTION A-A



SECTION B-B

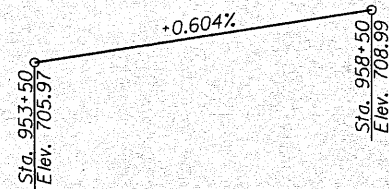


SECTION THRU INTEGRAL ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

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).

GENERAL DATA
STRUCTURE NO. 102-0069



PROFILE GRADE
 (Along & IL 251)

STATION 955+03.75
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.S. RT. 1360 SEC. (64-B-1)BR
 LOADING HL-93
 STR. NO. 102-0069

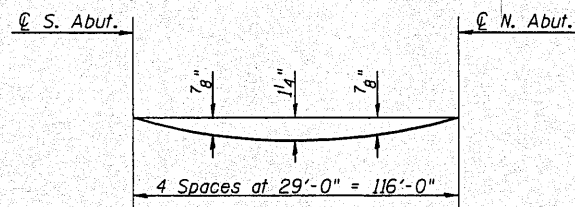
NAME PLATE
 See Std. 515001



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 No. 184-001907

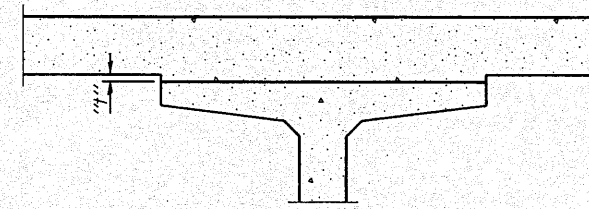
SHEET NO. 2
 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	17
CONTRACT NO. 68785				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



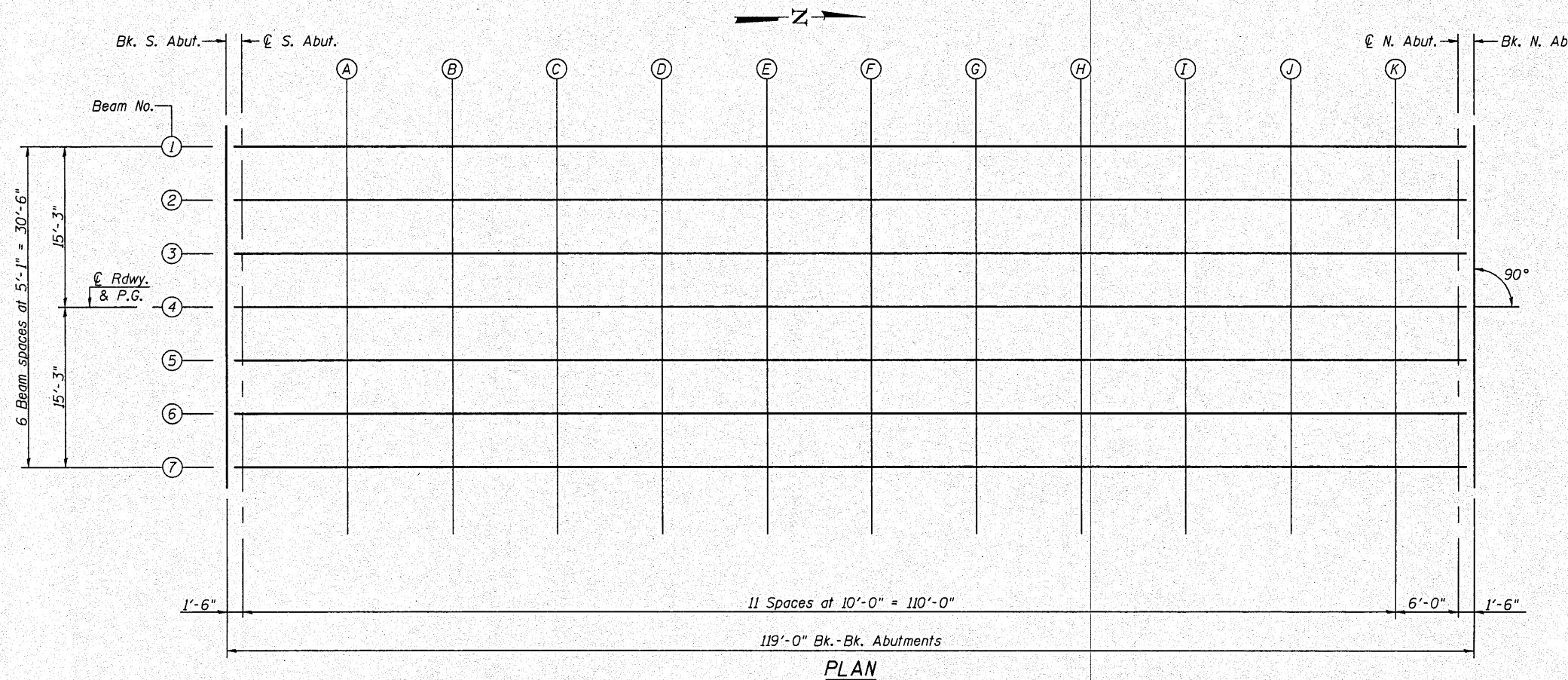
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 4 of 19.




To determine "t": After all precast prestressed beams have 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 on sheet 4 of 19, minus slab thickness equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



TOP OF SLAB ELEVATIONS
STRUCTURE NO. 102-0069

 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 3	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	1360	(64-B-1)BR	WOODFORD	45	18
				CONTRACT NO. 68785		
		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

BEAMS 1 & 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut	954+44.25	15.25	706.29	706.29
☉ S. Abut.	954+45.75	15.25	706.30	706.30
A	954+55.75	15.25	706.36	706.39
B	954+65.75	15.25	706.42	706.47
C	954+75.75	15.25	706.48	706.55
D	954+85.75	15.25	706.54	706.63
E	954+95.75	15.25	706.61	706.70
F	955+05.75	15.25	706.67	706.76
G	955+15.75	15.25	706.73	706.81
H	955+25.75	15.25	706.79	706.86
I	955+35.75	15.25	706.85	706.91
J	955+45.75	15.25	706.91	706.95
K	955+55.75	15.25	706.97	706.98
☉ N. Abut.	955+61.75	15.25	707.00	707.00
Bk. N. Abut.	955+63.25	15.25	707.01	707.01

BEAMS 2 & 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut	954+44.25	10.17	706.39	706.39
☉ S. Abut.	954+45.75	10.17	706.40	706.40
A	954+55.75	10.17	706.46	706.48
B	954+65.75	10.17	706.52	706.56
C	954+75.75	10.17	706.58	706.65
D	954+85.75	10.17	706.64	706.72
E	954+95.75	10.17	706.70	706.79
F	955+05.75	10.17	706.76	706.85
G	955+15.75	10.17	706.82	706.90
H	955+25.75	10.17	706.88	706.96
I	955+35.75	10.17	706.94	707.00
J	955+45.75	10.17	707.00	707.04
K	955+55.75	10.17	707.06	707.07
☉ N. Abut.	955+61.75	10.17	707.10	707.10
Bk. N. Abut.	955+63.25	10.17	707.11	707.11


BEAMS 3 & 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut	954+44.25	5.08	706.46	706.46
☉ S. Abut.	954+45.75	5.08	706.47	706.47
A	954+55.75	5.08	706.53	706.56
B	954+65.75	5.08	706.59	706.64
C	954+75.75	5.08	706.65	706.72
D	954+85.75	5.08	706.71	706.79
E	954+95.75	5.08	706.77	706.86
F	955+05.75	5.08	706.83	706.93
G	955+15.75	5.08	706.89	706.98
H	955+25.75	5.08	706.96	707.03
I	955+35.75	5.08	707.02	707.08
J	955+45.75	5.08	707.08	707.11
K	955+55.75	5.08	707.14	707.15
☉ N. Abut.	955+61.75	5.08	707.17	707.17
Bk. N. Abut.	955+63.25	5.08	707.18	707.18

☉ ROADWAY AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut	954+44.25	0.00	706.54	706.54
☉ S. Abut.	954+45.75	0.00	706.55	706.55
A	954+55.75	0.00	706.61	706.63
B	954+65.75	0.00	706.67	706.72
C	954+75.75	0.00	706.73	706.80
D	954+85.75	0.00	706.79	706.87
E	954+95.75	0.00	706.85	706.94
F	955+05.75	0.00	706.91	707.01
G	955+15.75	0.00	706.97	707.06
H	955+25.75	0.00	707.03	707.11
I	955+35.75	0.00	707.09	707.15
J	955+45.75	0.00	707.15	707.19
K	955+55.75	0.00	707.21	707.23
☉ N. Abut.	955+61.75	0.00	707.25	707.25
Bk. N. Abut.	955+63.25	0.00	707.26	707.26

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 102-0069**

 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 4	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	1360	(64-B-1)BR	WOODFORD	45	19
	CONTRACT NO. 68785					
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT						

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	954+14.25	16.00	706.10
A1	954+24.25	16.00	706.16
A2	954+34.25	16.00	706.22
N. End of S. Appr. Slab	954+44.25	16.00	706.28

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	954+14.25	12.00	706.18
A1	954+24.25	12.00	706.24
A2	954+34.25	12.00	706.30
N. End of S. Appr. Slab	954+44.25	12.00	706.36

℄ ROADWAY & PROFILE GRADE

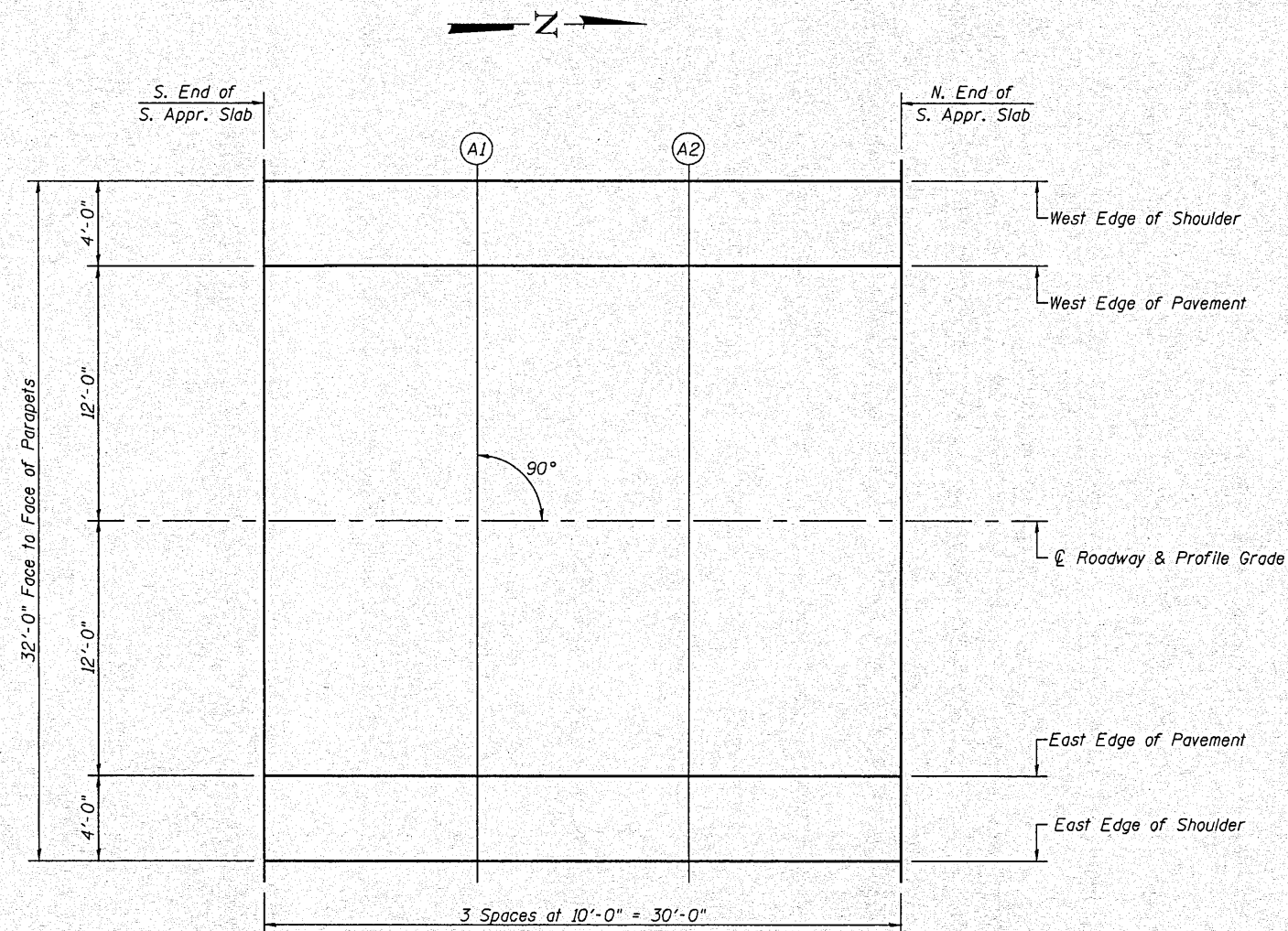
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	954+14.25	0.00	706.36
A1	954+24.25	0.00	706.42
A2	954+34.25	0.00	706.48
N. End of S. Appr. Slab	954+44.25	0.00	706.54

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	954+14.25	12.00	706.18
A1	954+24.25	12.00	706.24
A2	954+34.25	12.00	706.30
N. End of S. Appr. Slab	954+44.25	12.00	706.36


EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	954+14.25	16.00	706.10
A1	954+24.25	16.00	706.16
A2	954+34.25	16.00	706.22
N. End of S. Appr. Slab	954+44.25	16.00	706.28



PLAN

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 102-0069**

 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 5	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	1360	(64-B-1)BR	WOODFORD	45	20
				CONTRACT NO. 68785		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT						

WEST EDGE OF SHOULDER

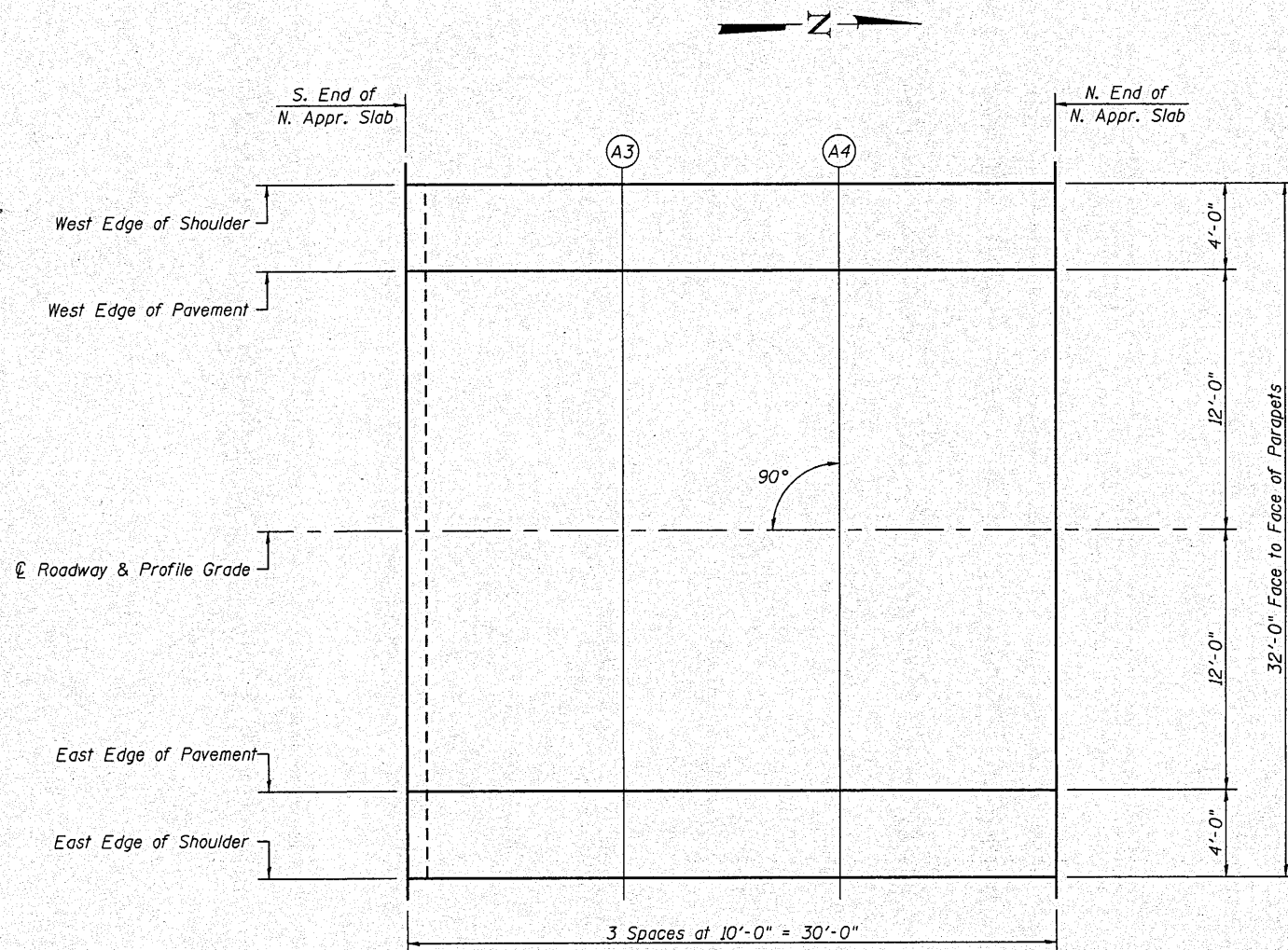
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	955+63.25	16.00	707.00
A3	955+73.25	16.00	707.06
A4	955+83.25	16.00	707.12
N. End of N. Appr. Slab	955+93.25	16.00	707.18

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	955+63.25	12.00	707.08
A3	955+73.25	12.00	707.14
A4	955+83.25	12.00	707.20
N. End of N. Appr. Slab	955+93.25	12.00	707.26

☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	955+63.25	0.00	707.26
A3	955+73.25	0.00	707.32
A4	955+83.25	0.00	707.38
N. End of N. Appr. Slab	955+93.25	0.00	707.44



PLAN


EAST EDGE OF PAVEMENT

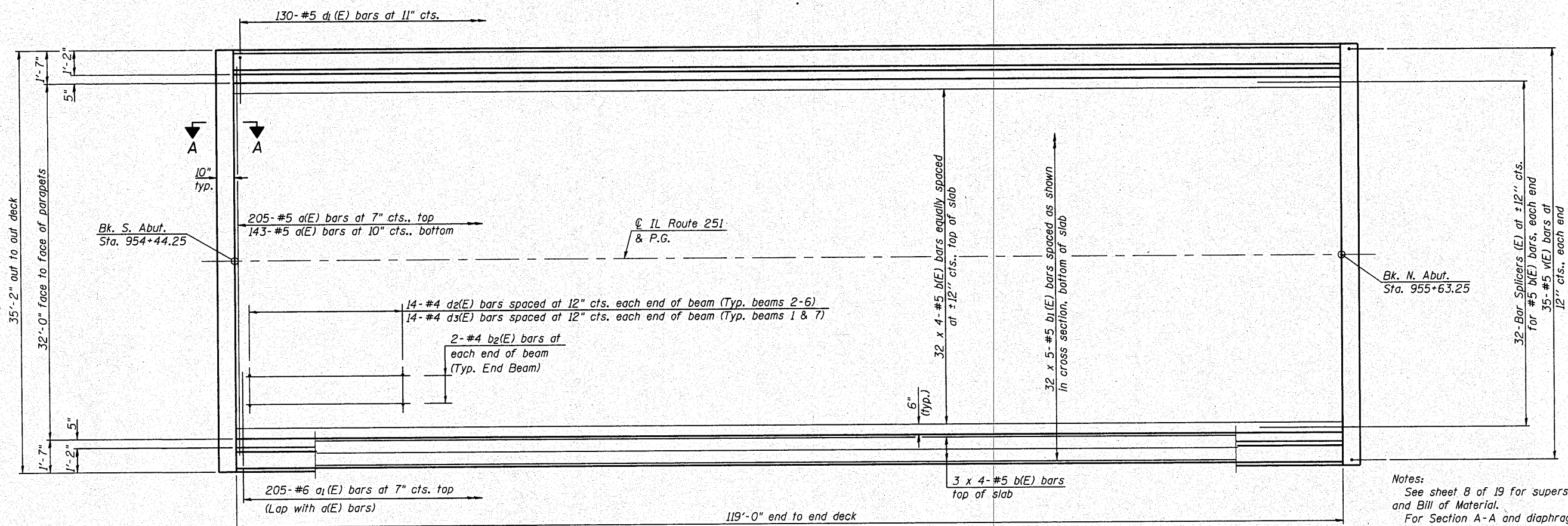
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	955+63.25	12.00	707.08
A3	955+73.25	12.00	707.14
A4	955+83.25	12.00	707.20
N. End of N. Appr. Slab	955+93.25	12.00	707.26

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	955+63.25	16.00	707.00
A3	955+73.25	16.00	707.06
A4	955+83.25	16.00	707.12
N. End of N. Appr. Slab	955+93.25	16.00	707.18

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 102-0069**

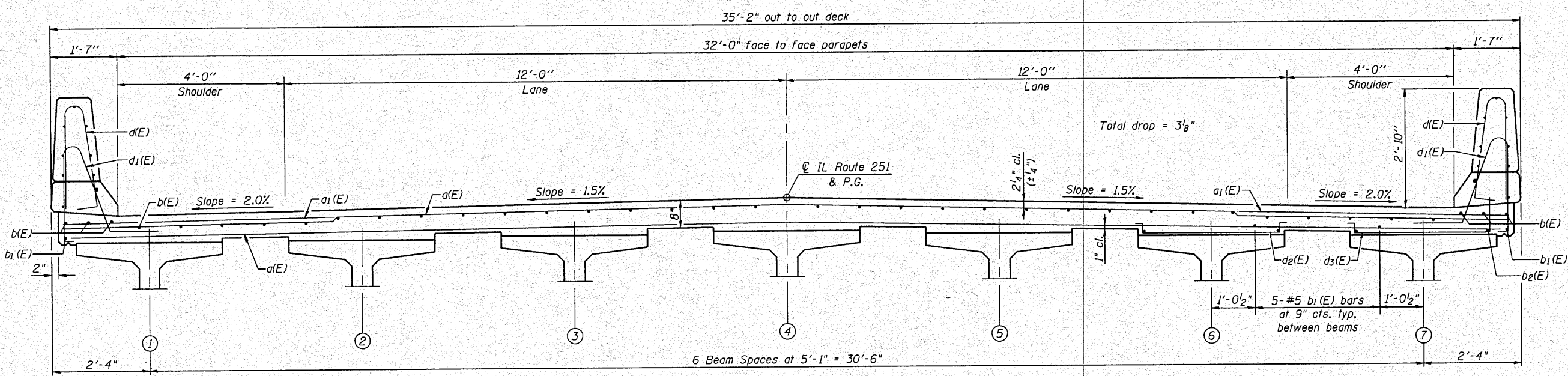
 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 6	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	1360	(64-B-1)BR	WOODFORD	45	21
				CONTRACT NO. 68785		
		FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT				



PLAN


MINIMUM BAR LAP
#5 bar = 2'-6"

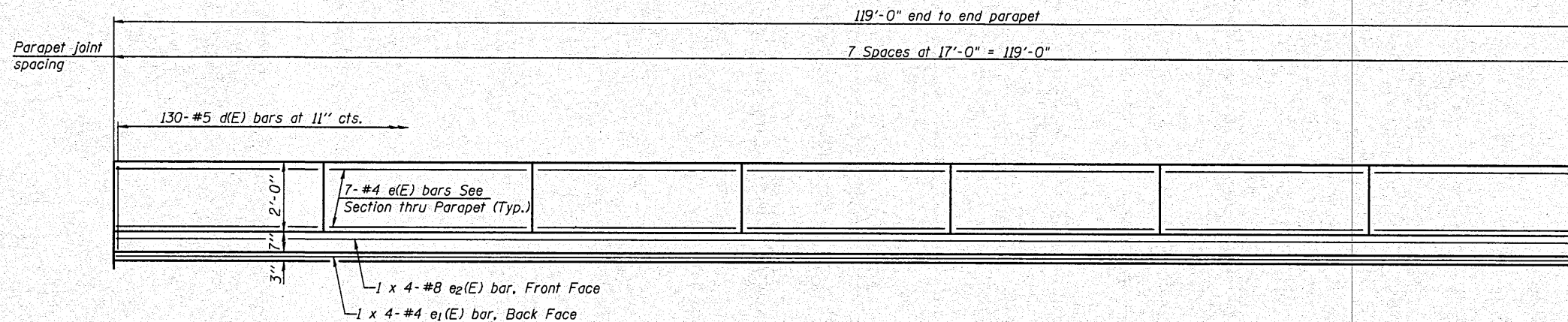
Notes:
See sheet 8 of 19 for superstructure details and Bill of Material.
For Section A-A and diaphragm details see sheet 9 of 19.
Bars indicated thus 32 x 4-#5 etc. indicates 32 lines of bars with 4 lengths per line.
See sheet 8 of 19 for parapet reinforcement.



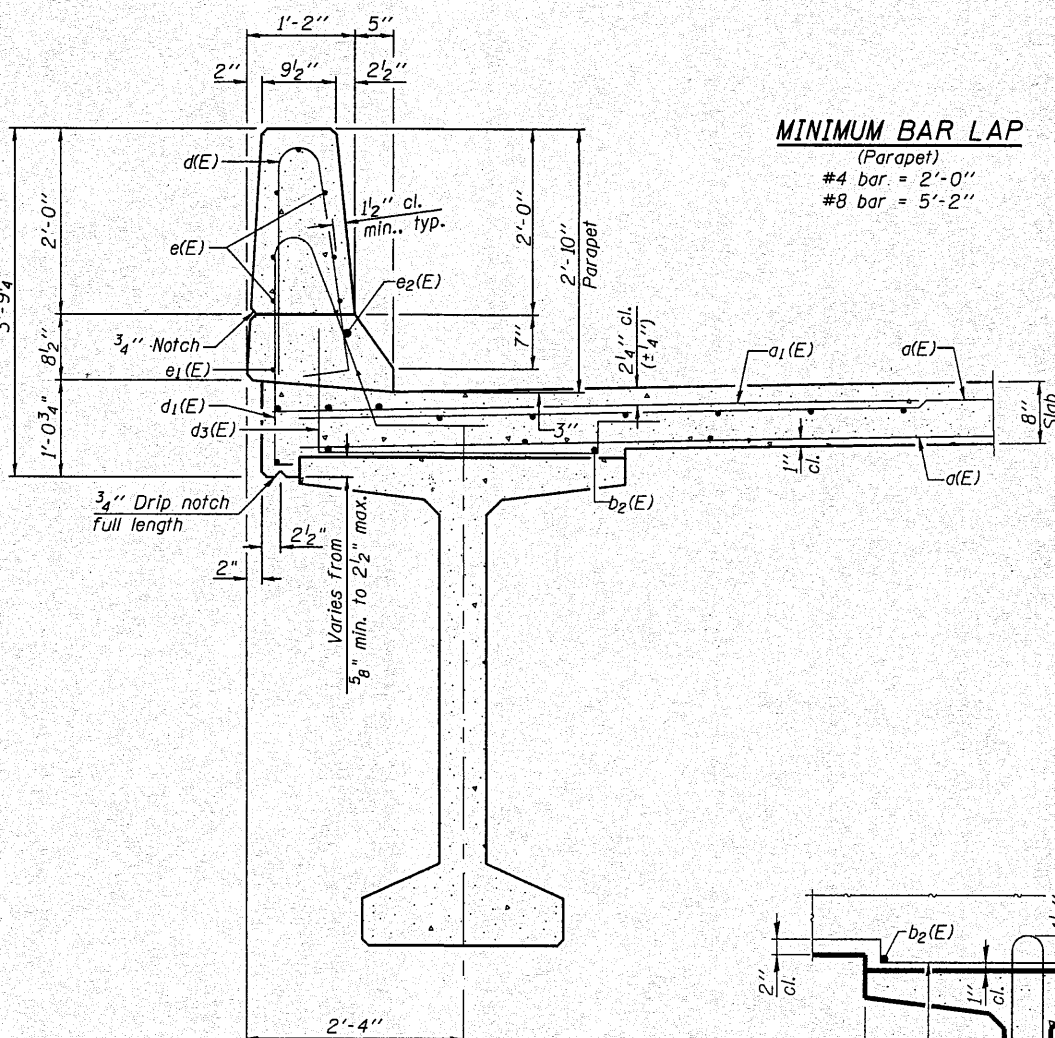
CROSS SECTION
(Looking North)

SUPERSTRUCTURE
STRUCTURE NO. 102-0069

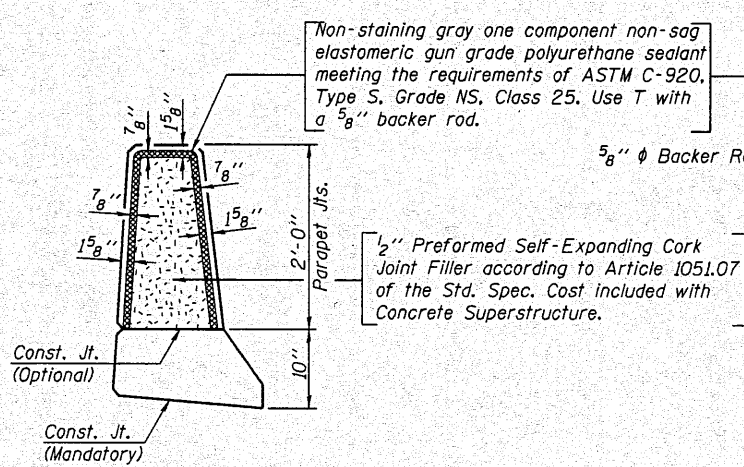
 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 7	F.A.S. RTE. 1360	SECTION (64-B-1)BR	COUNTY WOODFORD	TOTAL SHEETS 45	SHEET NO. 22
	19 SHEETS	CONTRACT NO. 68785				
	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



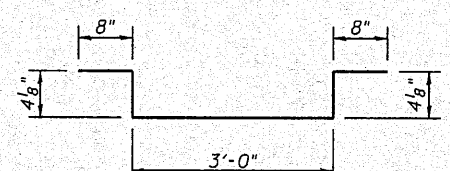
INSIDE ELEVATION OF PARAPET



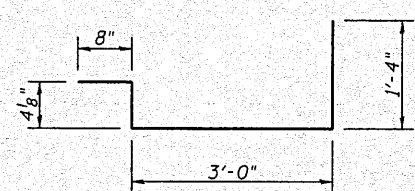
MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



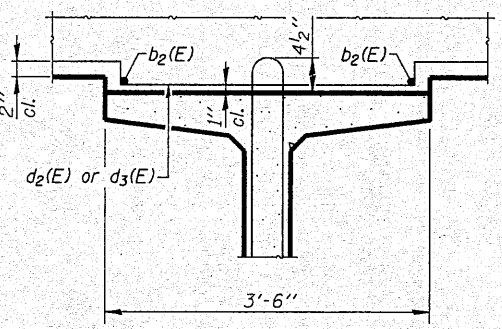
PARAPET JOINT DETAILS



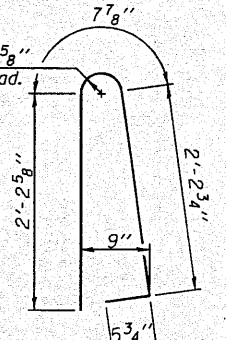
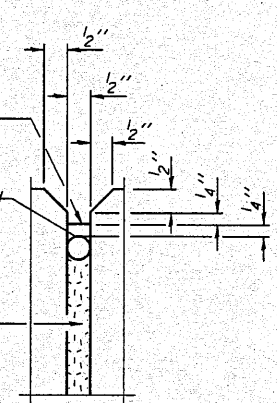
BAR d2(E)



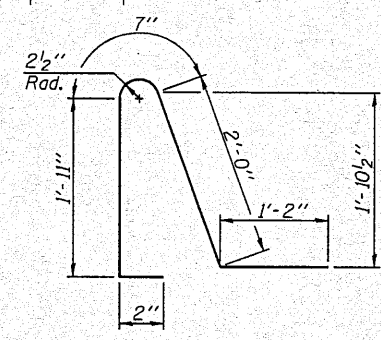
BAR d3(E)



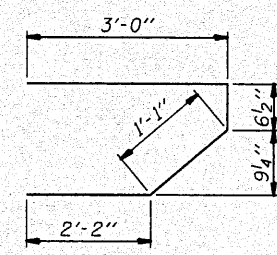
FILLET REINFORCEMENT DETAIL



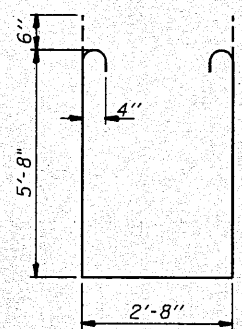
BAR d(E)



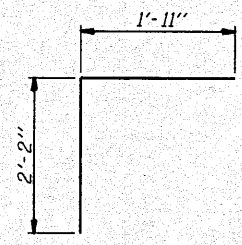
BAR d1(E)



BAR s(E)



BAR s1(E)



BAR v(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	348	#5	34'-6"	—
a1(E)	410	#6	6'-6"	—
b(E)	152	#5	32'-2"	—
b1(E)	160	#5	26'-3"	—
b2(E)	28	#4	13'-0"	—
d(E)	260	#5	5'-7"	∩
d1(E)	260	#5	5'-10"	∩
d2(E)	140	#4	5'-1"	∩
d3(E)	56	#4	5'-5"	∩
e(E)	98	#4	16'-8"	—
e1(E)	8	#4	31'-8"	—
e2(E)	8	#8	34'-10"	—
m(E)	12	#6	34'-10"	—
m1(E)	42	#6	8'-5"	—
m2(E)	12	#6	2'-7"	—
m3(E)	4	#6	1'-0"	—
s(E)	72	#5	6'-10"	⊥
s1(E)	28	#4	15'-0"	⊥
v(E)	70	#5	4'-1"	⊥
Reinforcement Bars, Epoxy Coated			Lbs.	34330
Concrete Superstructure			Cu. Yds.	197.2

Bars indicated thus 1 x 4-#8 etc. indicates 1 line of bars with 4 lengths per line.

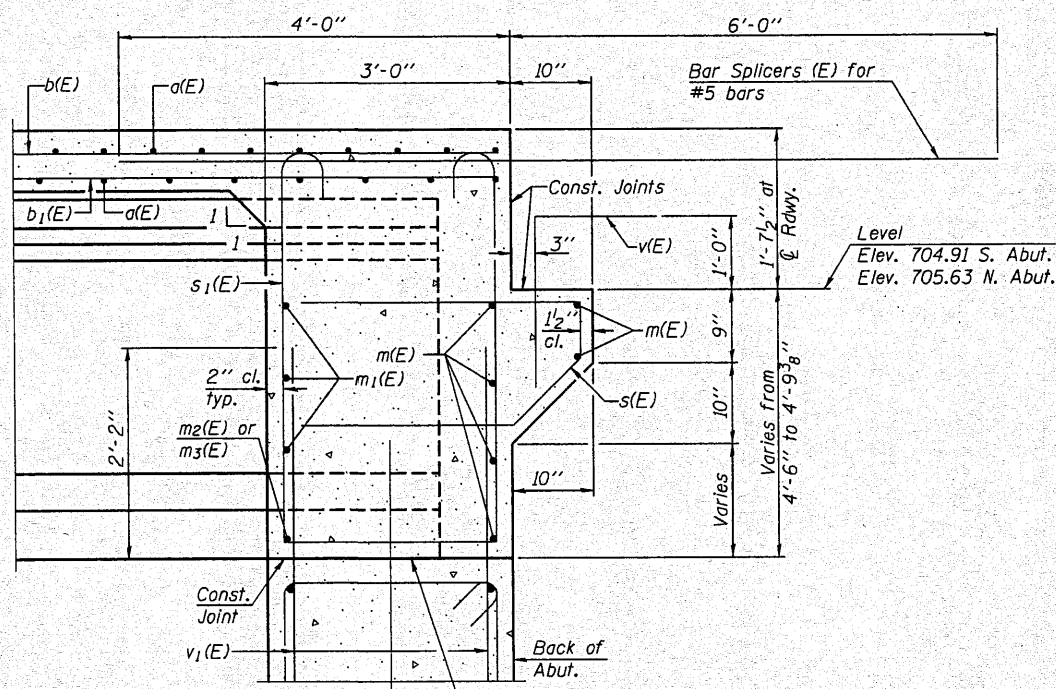
SUPERSTRUCTURE DETAILS STRUCTURE NO. 102-0069



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No. 184-001907

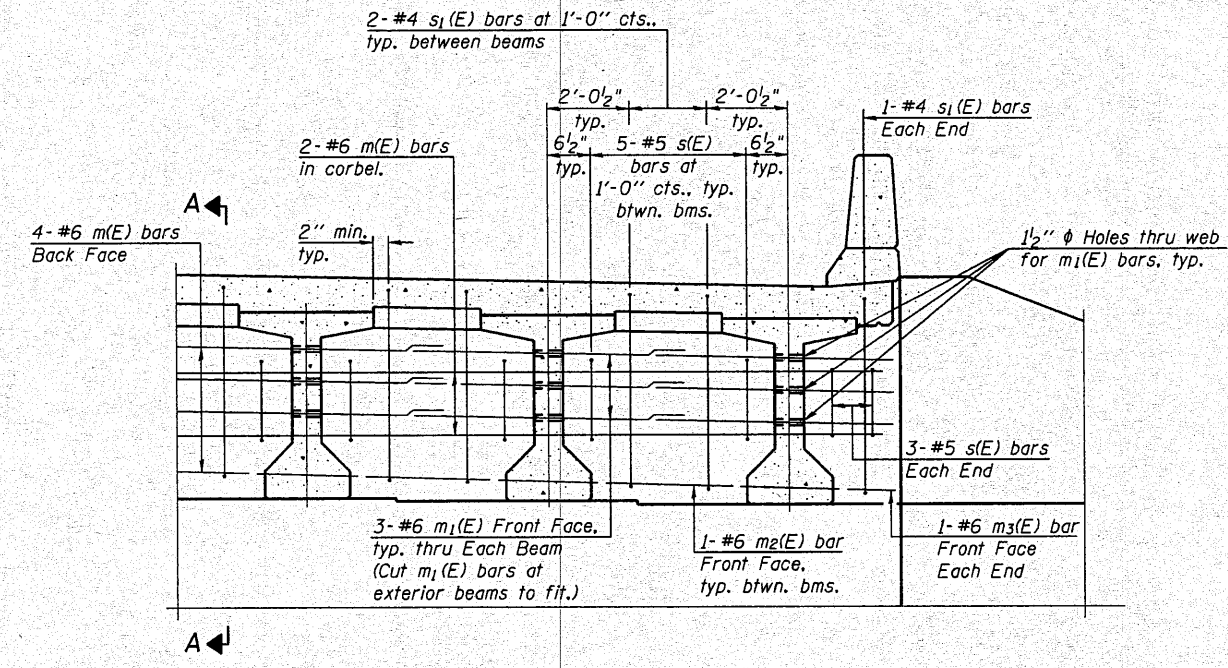
SHEET NO. 8
19 SHEETS

F.A.S. RTE. 1360	SECTION (64-B-1)BR	COUNTY WOODFORD	TOTAL SHEETS 45	SHEET NO. 23
FED. ROAD DIST. NO. ILLINOIS			CONTRACT NO. 68785	
FED. AID PROJECT				



SECTION A-A

Beam ends shall be set on an initial 1/2" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed. Cost included with Concrete Structures.




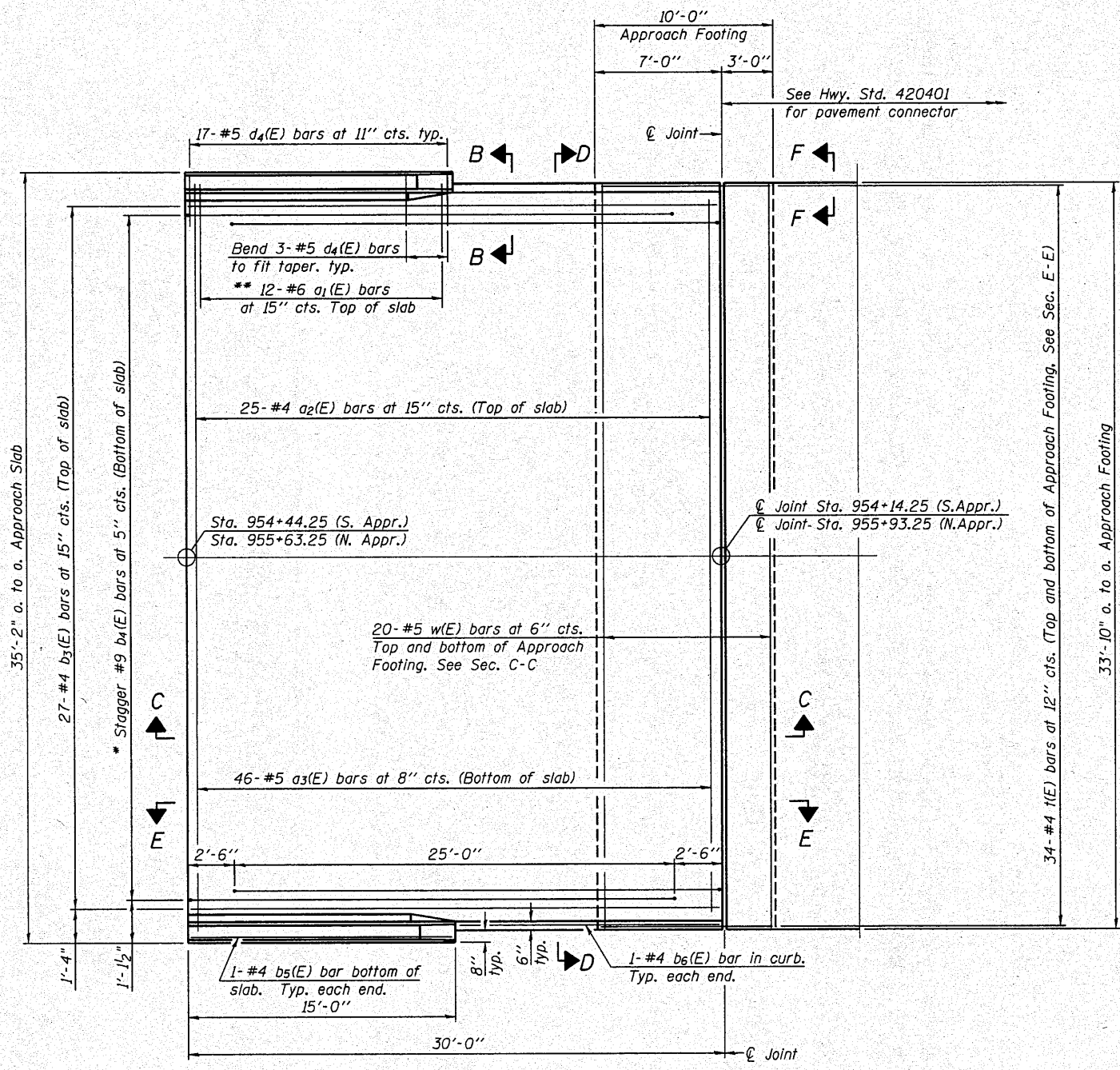
DIAPHRAGM ELEVATION AT ABUTMENT

MIN. BAR LAP
#6 bar = 3'-4"

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 19.
Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 19.
For details of bars s(E) and s1(E) see sheet 8 of 19.
The s(E) and s1(E) bars shall be placed parallel to the beams.

**INTEGRAL ABUTMENT
DIAPHRAGM DETAILS
STRUCTURE NO. 102-0069**

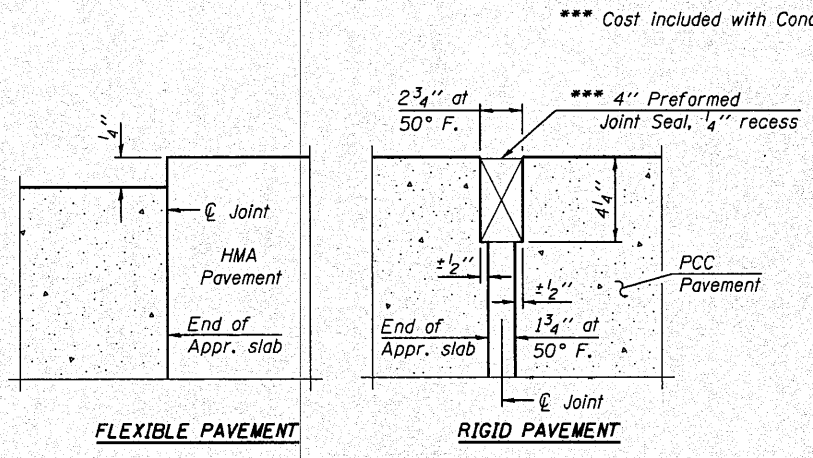
 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19 SHEETS	1360	(64-B-1)BR	WOODFORD	45	24
				CONTRACT NO. 68785		
		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



PLAN

* Tilt #9 b4(E) bars as required to maintain clearance.
 ** Space between a2(E) bars, typ. ea. parapet.

Notes:
 See sheet 11 of 19 for Sections C-C & D-D and View E-E.
 a2(E) and a3(E) bar spacings measured along ϕ Rdwy.

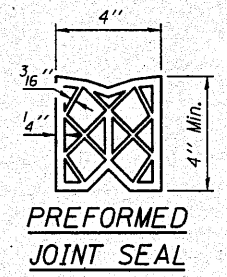


FLEXIBLE PAVEMENT

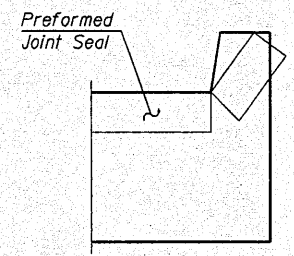
RIGID PAVEMENT

DETAIL A

*** Cost included with Concrete Superstructure.

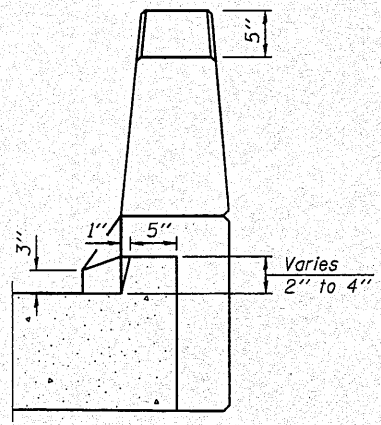


PREFORMED JOINT SEAL



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

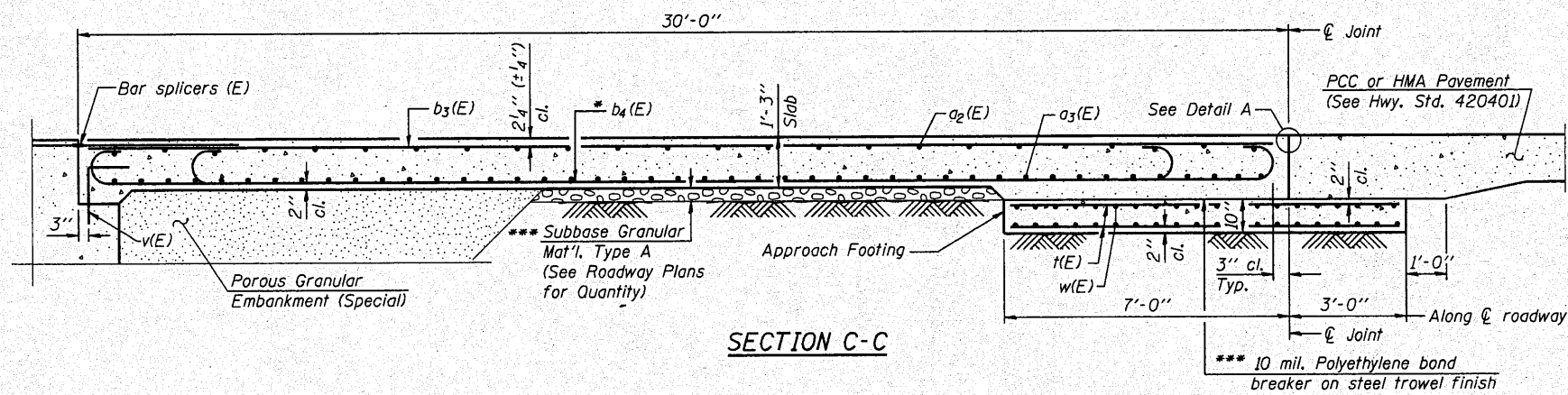
(Sheet 1 of 2)
BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 102-0069



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 No. 184-001907

SHEET NO. 10
 19 SHEETS

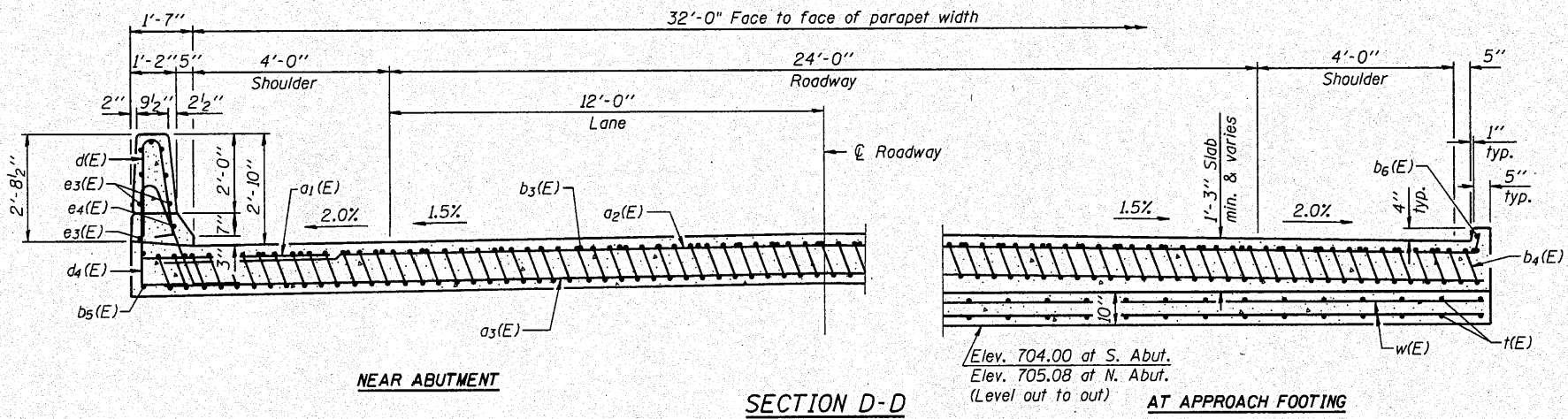
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68785	



SECTION C-C

Notes:

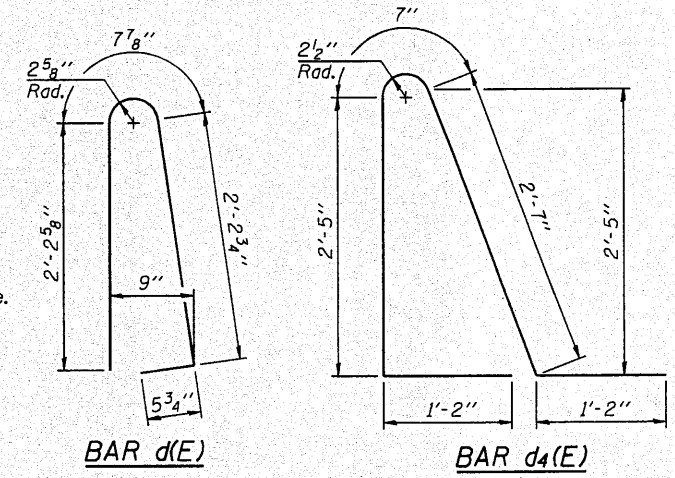
See sheet 10 of 19 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 8 of 19.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 For bar splicer details, see sheet 16 of 19.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 19.
 For additional parapet details, see sheet 8 of 19.



SECTION D-D

(See Plan for dimensions not shown)

AT APPROACH FOOTING



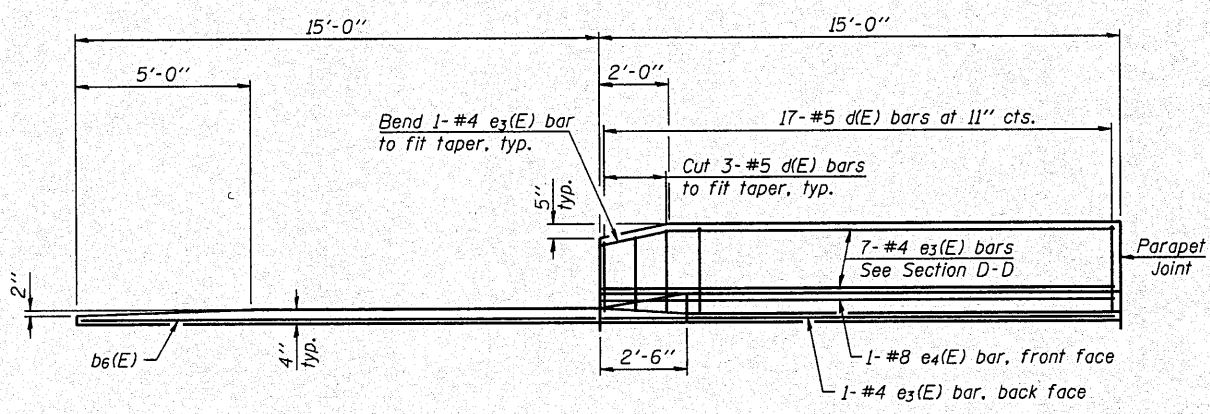
BAR d(E)

BAR d4(E)

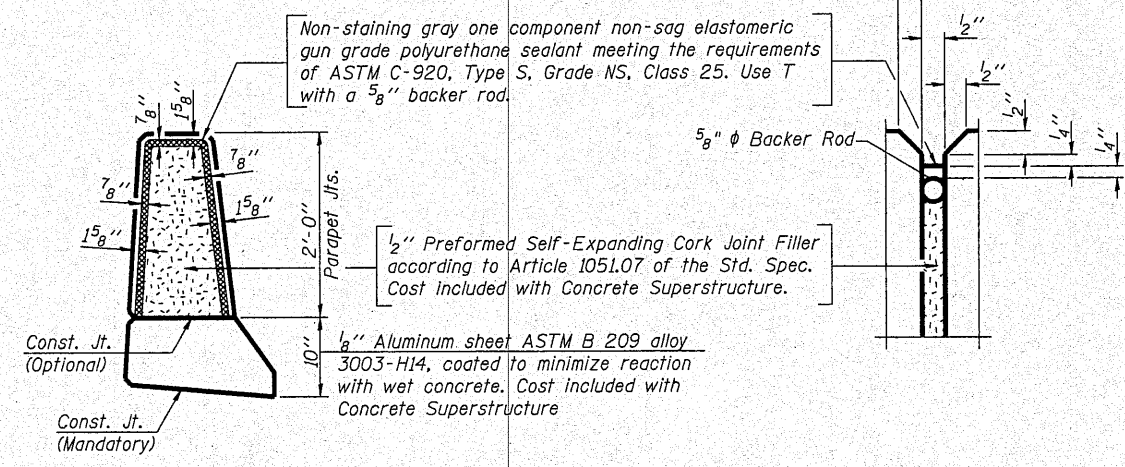
* Tilt #9 b4(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

TWO APPROACHES
 BILL OF MATERIAL

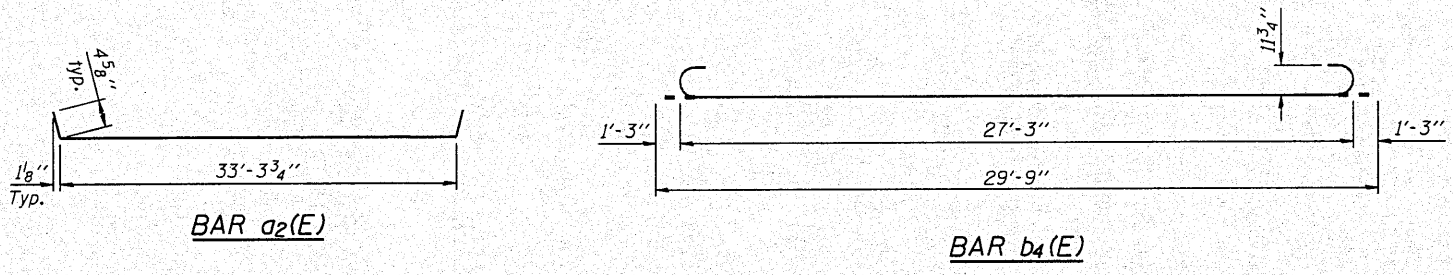
Bar	No.	Size	Length	Shape
a1(E)	48	#6	6'-6"	—
a2(E)	50	#4	34'-1"	—
a3(E)	92	#5	33'-6"	—
b3(E)	54	#4	29'-8"	—
b4(E)	160	#9	29'-9"	—
b5(E)	4	#4	14'-8"	—
b6(E)	4	#4	14'-6"	—
d(E)	68	#5	5'-7"	⌒
d4(E)	68	#5	7'-11"	⌒
e3(E)	32	#4	14'-8"	—
e4(E)	4	#8	14'-8"	—
k(E)	136	#4	9'-8"	—
w(E)	80	#5	33'-6"	—
Concrete Superstructure		Cu. Yd.	106.3	
Concrete Structures		Cu. Yd.	20.8	
Reinforcement Bars, Epoxy Coated		Pound	27260	



VIEW E-E



PARAPET JOINT DETAILS

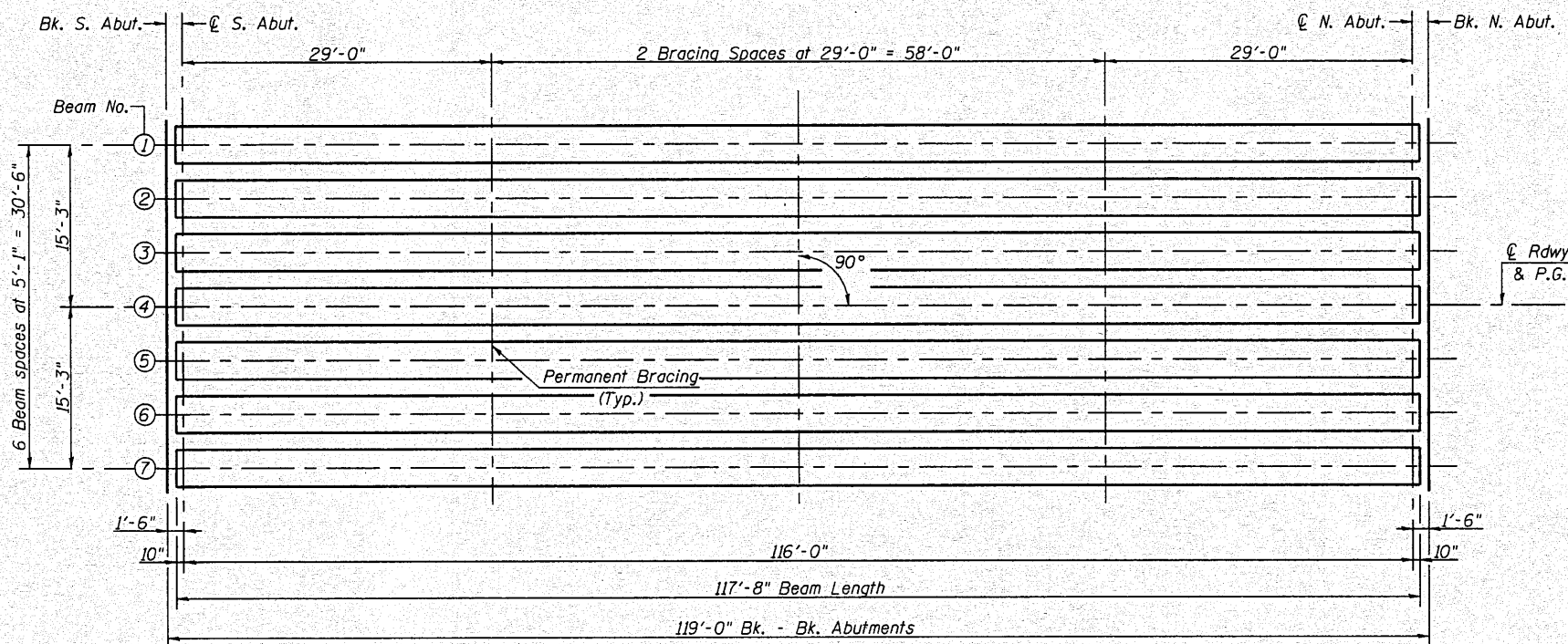


BAR a2(E)

BAR b4(E)

(Sheet 2 of 2)
 BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 102-0069

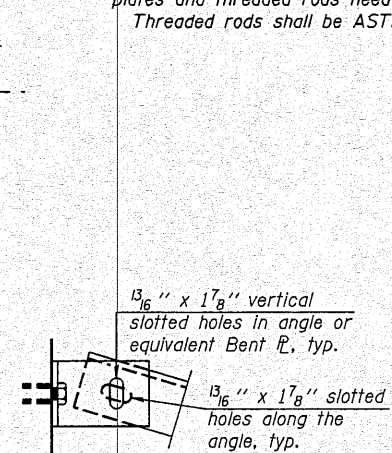
Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 11	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	19 SHEETS	1360	(64-B-1)BR	WOODFORD	45	26	
					CONTRACT NO. 68785		
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



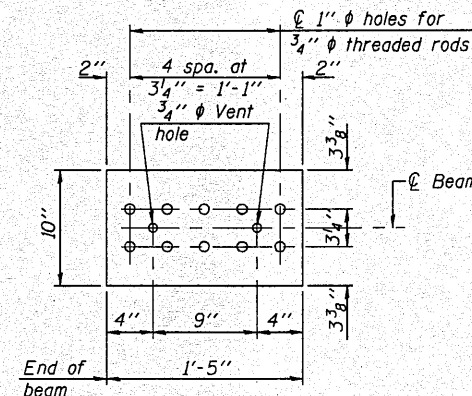
FRAMING PLAN

NOTES

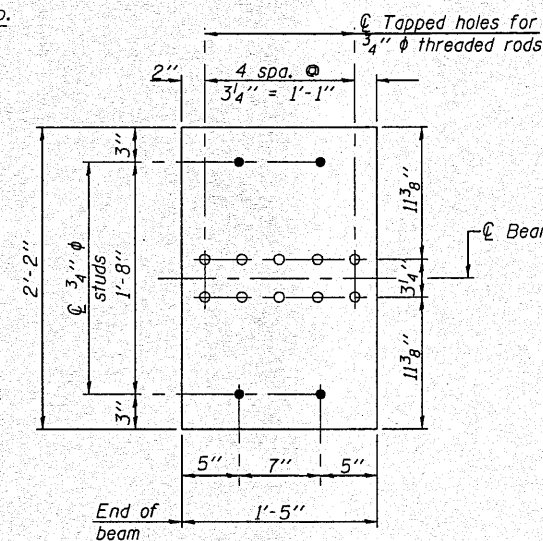
Inserts for 3/4" ϕ threaded dowel rods, when specified, are to be two strut ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50. The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized. Threaded rods shall be ASTM F 1554 Grade 55.



DETAIL A

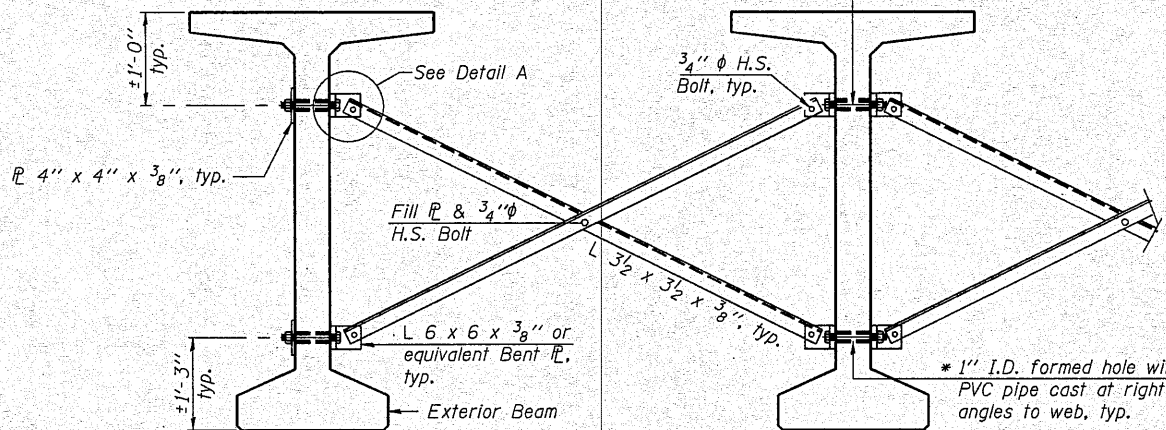


TOP PLATE

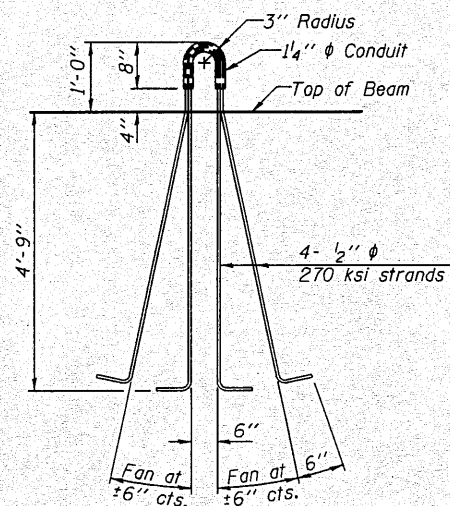


BOTTOM PLATE

* Fabricator shall locate to miss strands within permissible tolerances.



PERMANENT BRACING DETAILS FOR BULB-T BEAMS



LIFTING LOOP DETAIL

Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes. All holes shall be 13/16" ϕ unless otherwise noted. 5/16" x 3" x 3" plate washers are required over all slotted holes. All bolts shall be galvanized according to AASHTO M232. Bracing shall be installed as beams are erected and tightened as soon as possible during erection. Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams.

FRAMING PLAN & BEAM DETAILS
STRUCTURE NO. 102-0069

INTERIOR BEAM MOMENT TABLE		
0.5 Span		
I	(in ⁴)	392638
I'	(in ⁴)	678176
S _b	(in ³)	12224
S _b '	(in ³)	15580
S _t	(in ³)	12715
S _t '	(in ³)	34832
DC1	(k/')	1.32
M _{DC1}	(k)	22.15
DC2	(k/')	0.13
M _{DC2}	(k)	2.17
DW	(k/')	0.25
M _{DW}	(k)	4.27
M _{LL+IM}	(k)	17.35

INTERIOR BEAM REACTION TABLE		
Abut.		
R _{DC1}	(k)	77.2
R _{DC2}	(k)	7.6
R _{DW}	(k)	14.6
R _{LL+IM}	(k)	76.04
R _{Total}	(k)	175.4

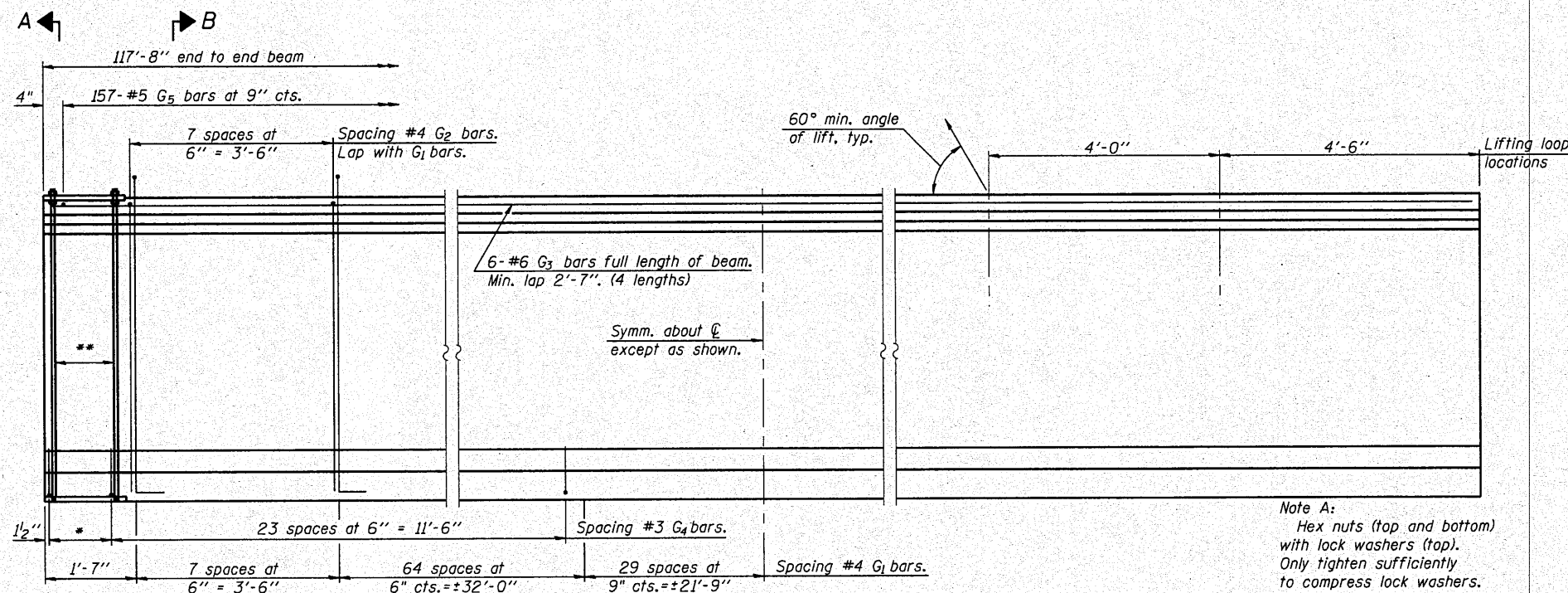
I: Non-composite moment of inertia of beam section (in⁴).
 I': Composite moment of inertia of beam section (in⁴).
 S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
 S_b': Composite section modulus for the bottom fiber of the prestressed beam (in³).
 S_t: Non-composite section modulus for the top fiber of the prestressed beam (in³).
 S_t': Composite section modulus for the top fiber of the prestressed beam (in³).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1}: 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.).
 M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 M_{LL+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).



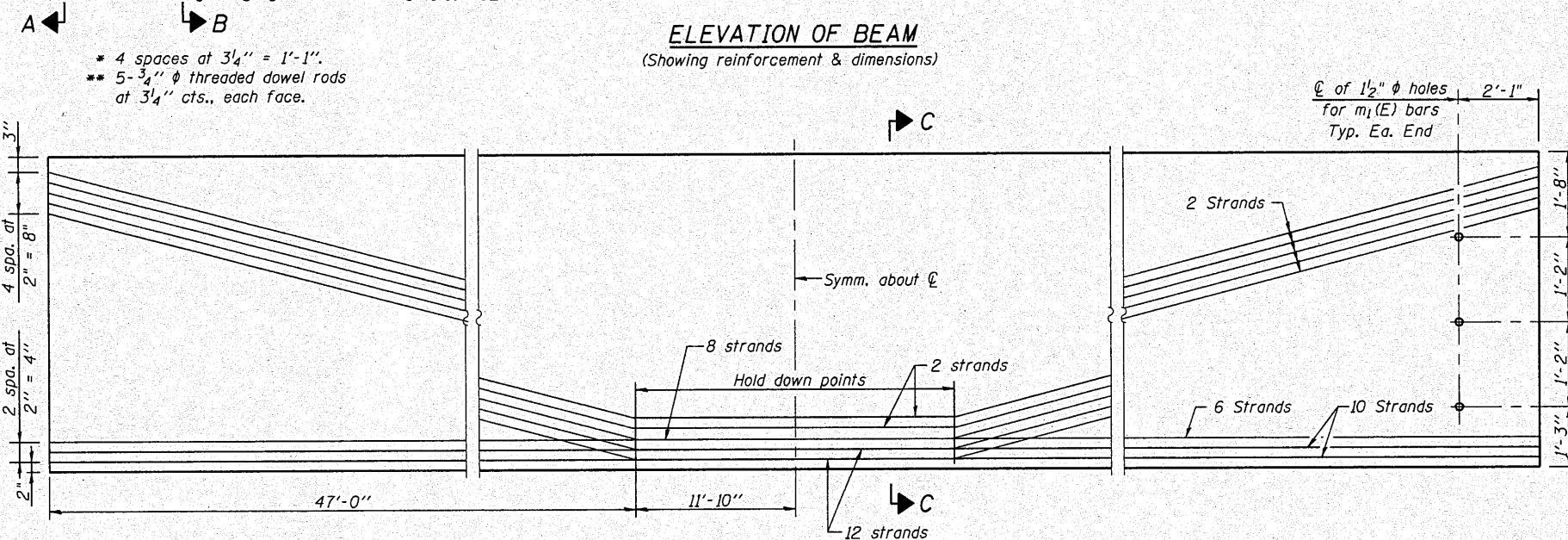
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SHEET NO. 12
 19 SHEETS

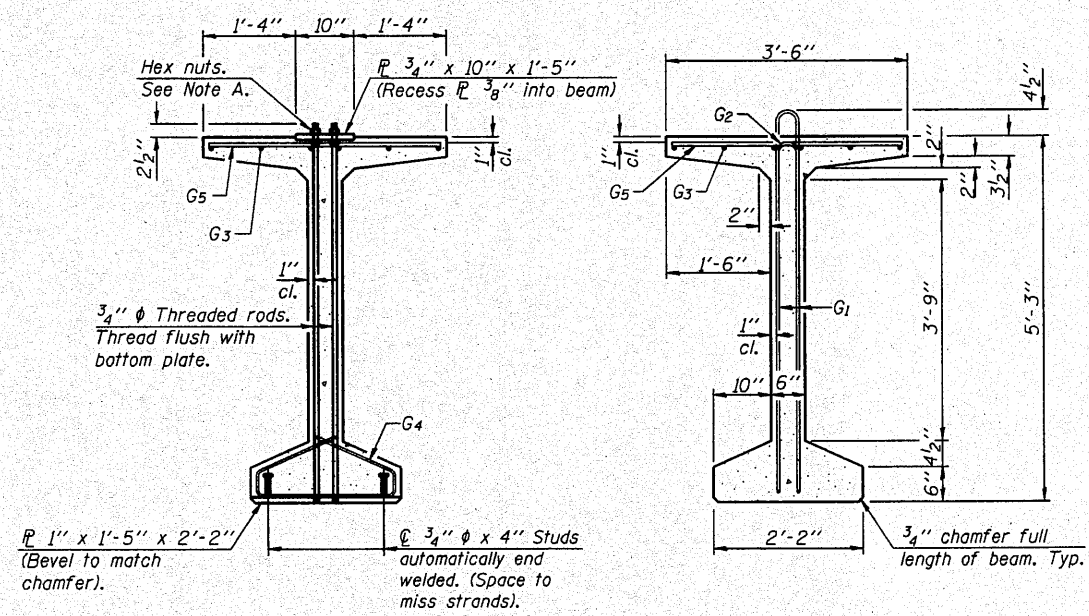
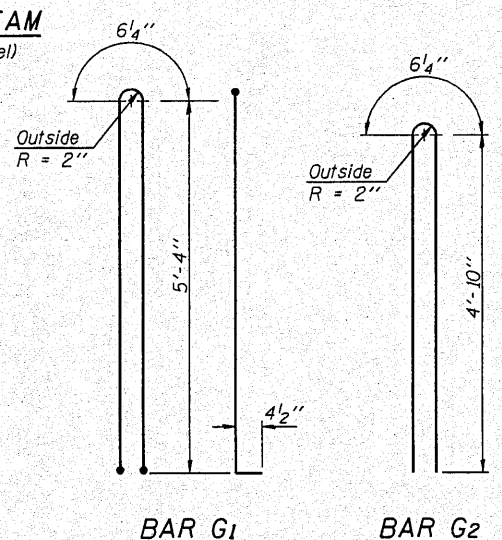
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	27
CONTRACT NO. 68785				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



ELEVATION OF BEAM
(Showing reinforcement & dimensions)

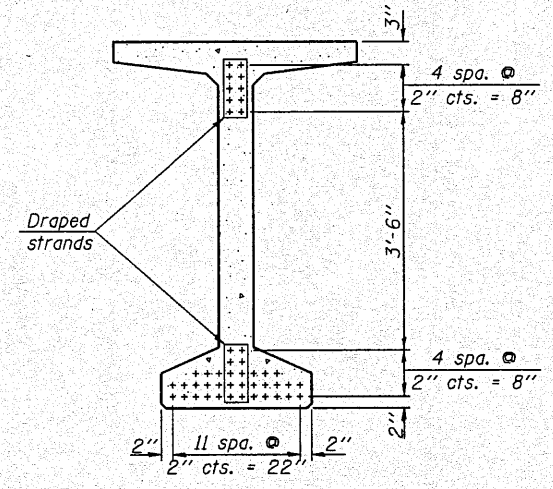


ELEVATION OF BEAM
(Showing prestressing steel)



SECTION A-A

SECTION B-B



SECTION C-C

*****BAR LIST ONE BEAM ONLY**

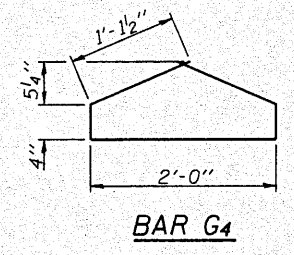
Bar	No.	Size	Length	Shape
G ₁	201	#4	11'-11"	U
G ₂	16	#4	10'-2"	I
G ₃	24	#6	31'-11"	—
G ₄	56	#3	4'-11"	S
G ₅	157	#5	3'-4"	—

***For information only

Notes:
See sheet 12 of 19 for additional details.
Required release strength, f'cl, shall be 6000 psi.

BILL OF MATERIAL

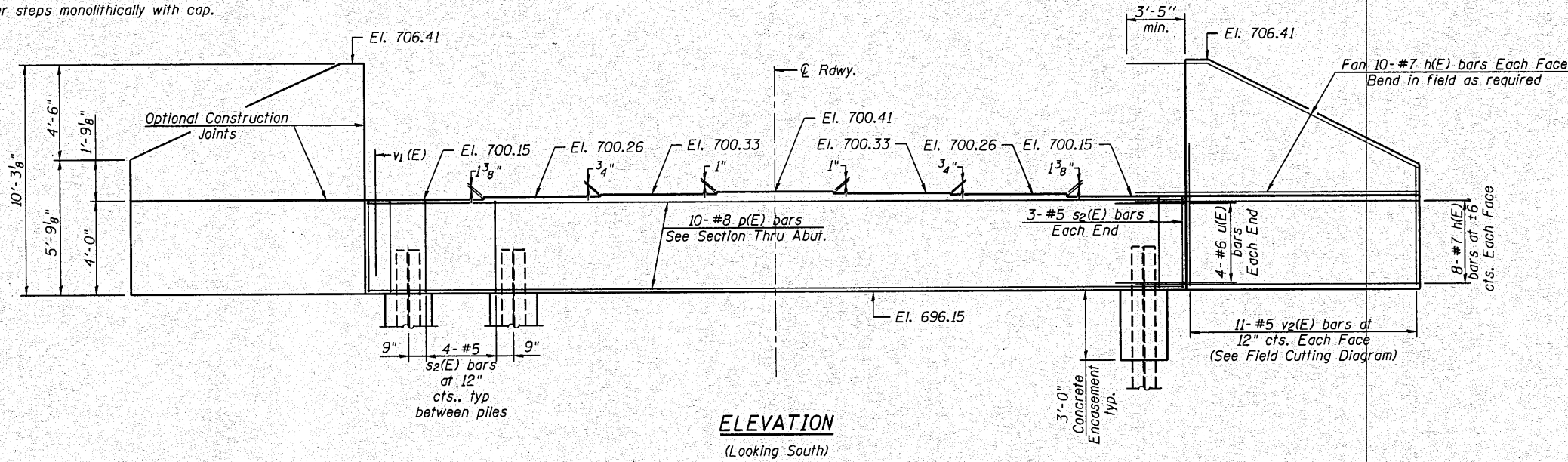
Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Ft.	824



**63" PPC BULB T-BEAM
STRUCTURE NO. 102-0069**

<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>SHEET NO. 13</p> <p>19 SHEETS</p>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1360	(64-B-1)BR	WOODFORD	45	28
<p>FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</p>						<p>CONTRACT NO. 68785</p>

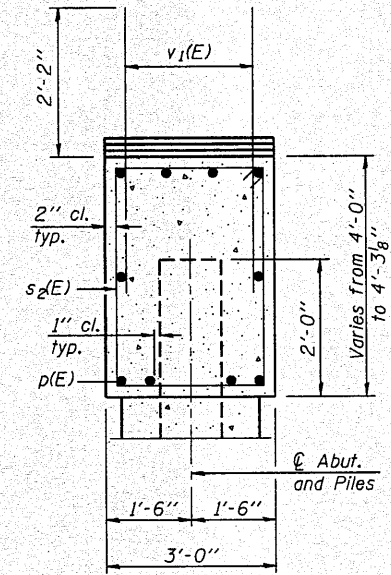
Notes:
Pour steps monolithically with cap.



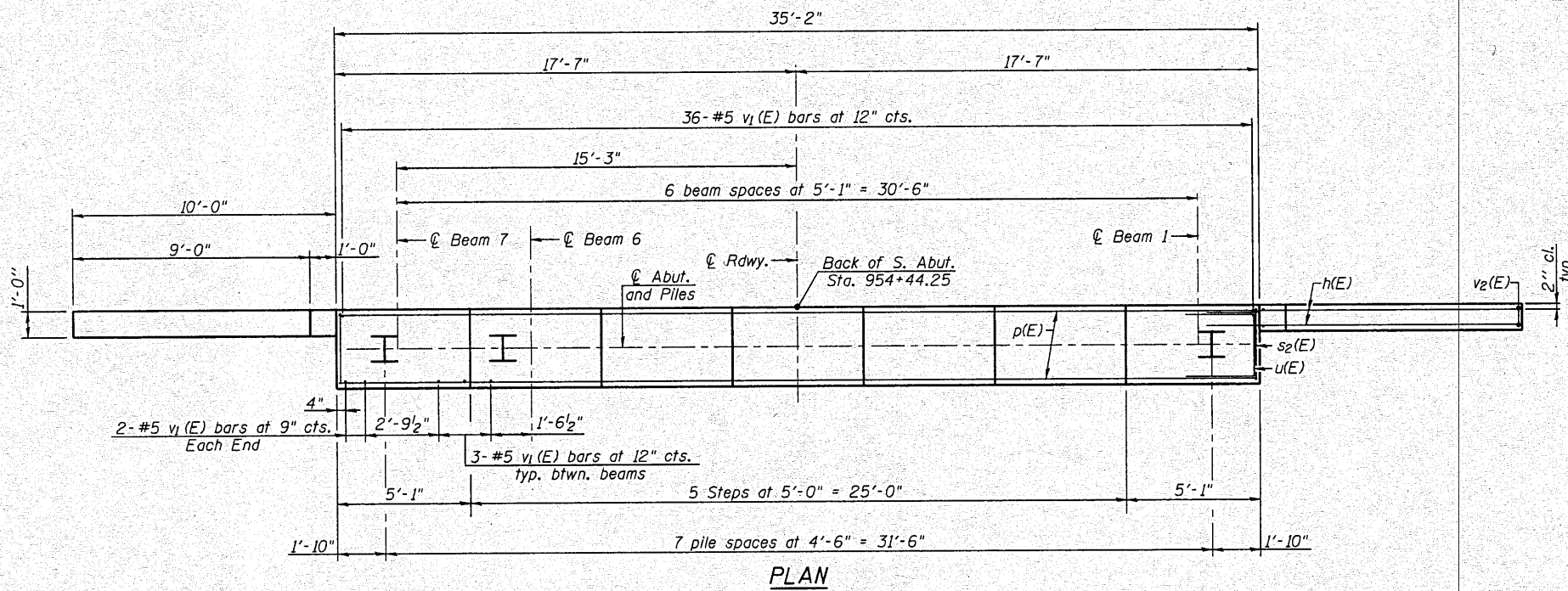
ELEVATION
(Looking South)

PILE DATA

Type: HP10x57 with Pile Shoes
Nominal Required Bearing: 454 Kips
Factored Resistance Available: 227 Kips
Est. Length: 40 ft.
No. Production Piles: 7
No. Test Piles: 1



SEC. THRU ABUT.

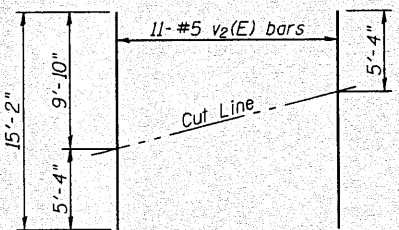


PLAN

BILL OF MATERIAL

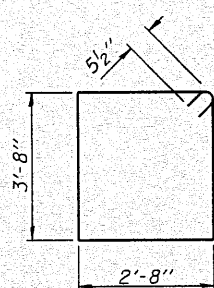
Bar	No.	Size	Length	Shape
h(E)	72	#7	13'-3"	—
p(E)	10	#8	34'-11"	—
s2(E)	34	#5	13'-7"	□
u(E)	8	#6	10'-6"	□
v1(E)	58	#5	4'-4"	—
v2(E)	22	#5	15'-2"	—
Structure Excavation			Cu. Yd.	32.0
Concrete Structures			Cu. Yd.	22.2
Reinforcement Bars, Epoxy Coated			Pound	4100
Furnishing Steel Piles HP10x57			Foot	280
Driving Piles			Foot	280
Test Pile Steel HP10x57			Each	1
Pile Shoes			Each	8
Concrete Encasement			Cu. Yd.	2.8

For details of piles and Concrete Encasement, see sheet 17 of 19.

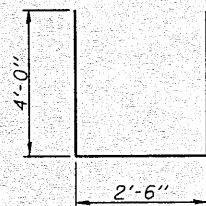


FIELD CUTTING DIAGRAM

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



BAR s2(E)



BAR u(E)



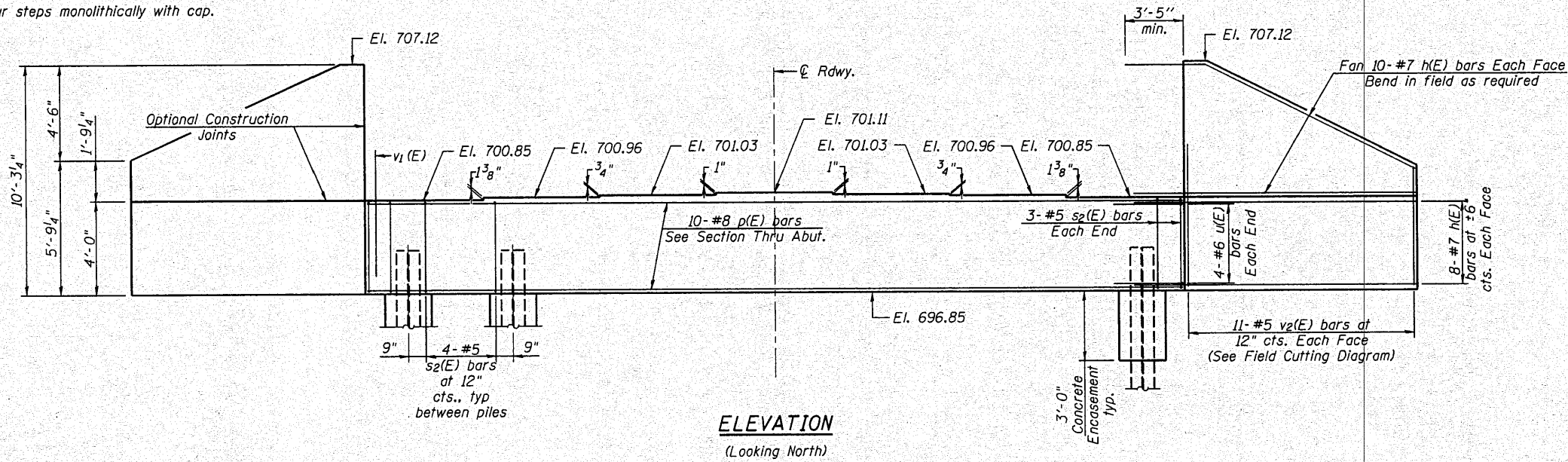
Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

SHEET NO. 14
19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	29
CONTRACT NO. 68785				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

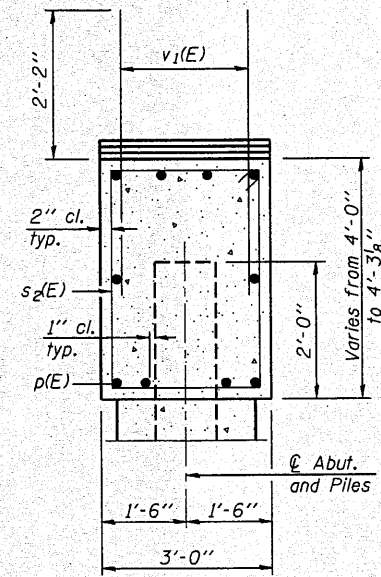
SOUTH ABUTMENT
STRUCTURE NO. 102-0069

Notes:
Pour steps monolithically with cap.



PILE DATA

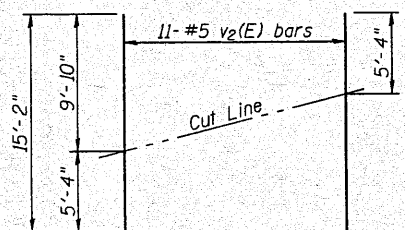
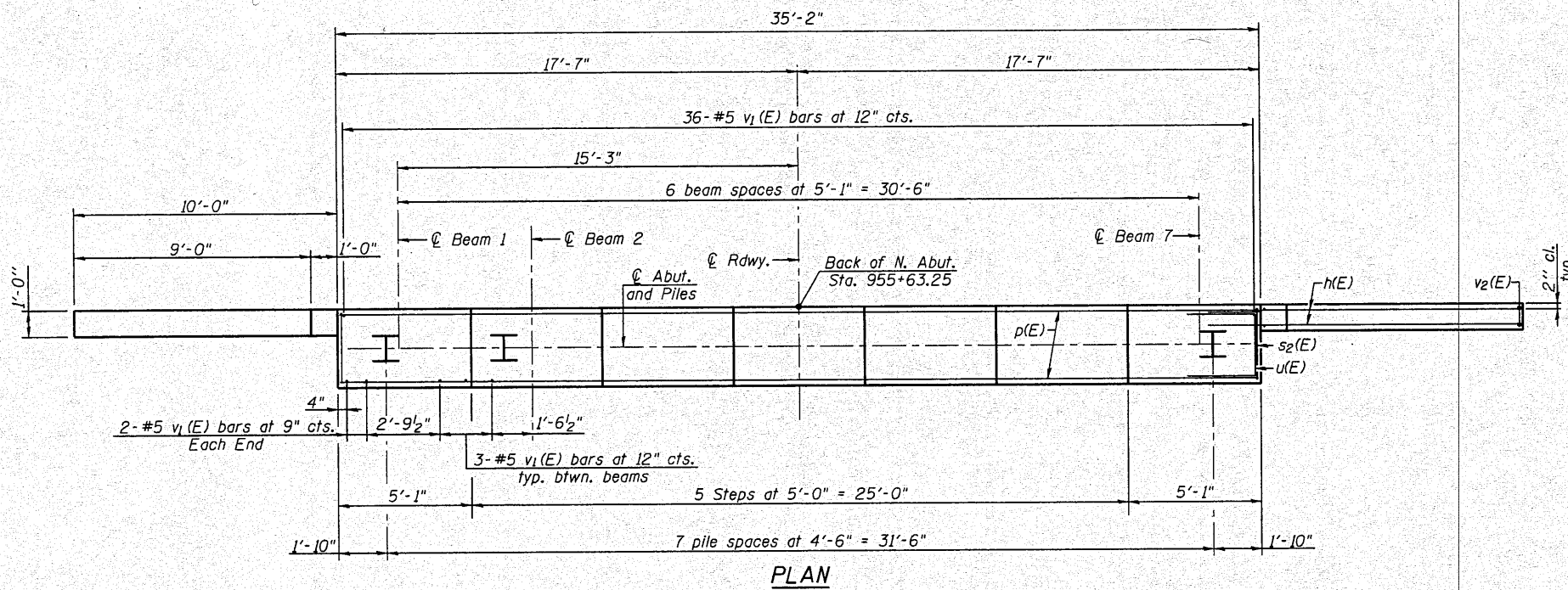
Type: HP10x57 with Pile Shoes
Nominal Required Bearing: 454 Kips
Factored Resistance Available: 227 Kips
Est. Length: 47 ft.
No. Production Piles: 8
No. Test Piles: 0



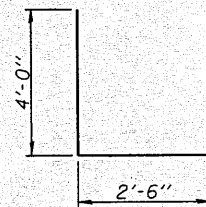
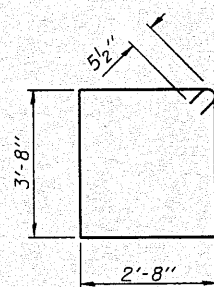
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	72	#7	13'-3"	—
p(E)	10	#8	34'-11"	—
s2(E)	34	#5	13'-7"	□
u(E)	8	#6	10'-6"	□
v1(E)	58	#5	4'-4"	—
v2(E)	22	#5	15'-2"	—
Structure Excavation			Cu. Yd.	32.0
Concrete Structures			Cu. Yd.	22.2
Reinforcement Bars, Epoxy Coated			Pound	4100
Furnishing Steel Piles HP10x57			Foot	376
Driving Piles			Foot	376
Pile Shoes			Each	8
Concrete Encasement			Cu. Yd.	2.8

For details of piles and Concrete Encasement, see sheet 17 of 19.



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



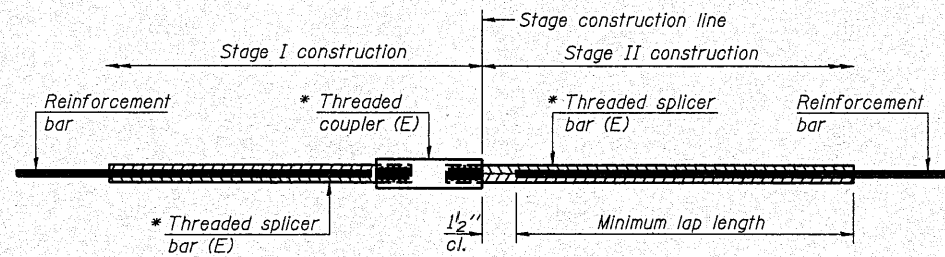
**NORTH ABUTMENT
STRUCTURE NO. 102-0069**



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SHEET NO. 15
19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	30
CONTRACT NO. 68785				
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

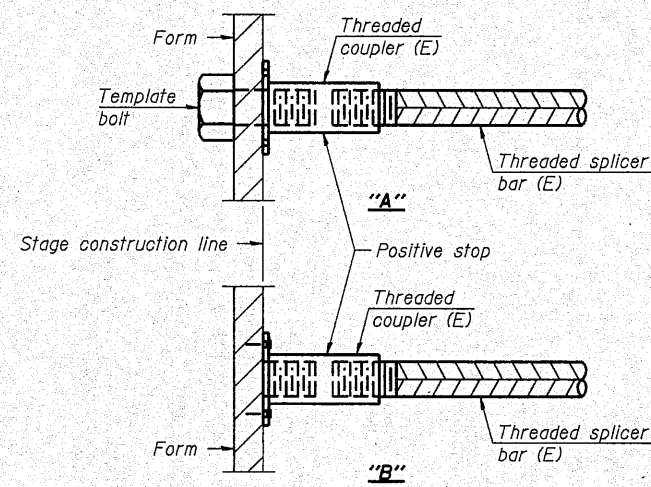
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- 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

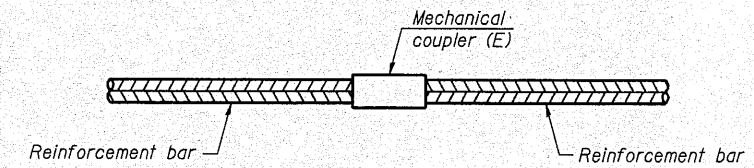
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

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



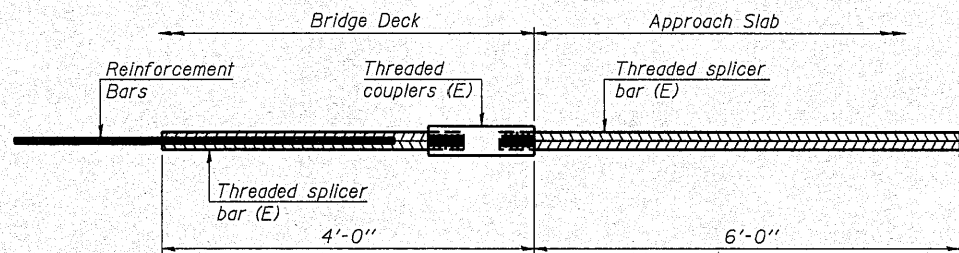
INSTALLATION AND SETTING METHODS

"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.



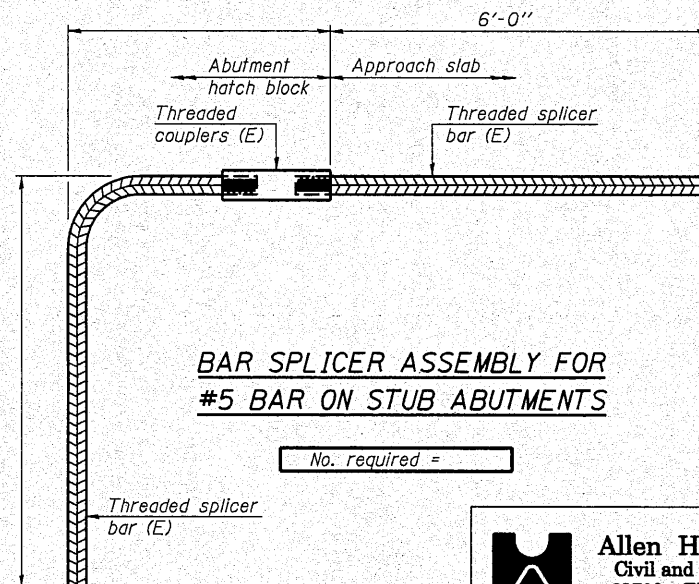
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required = 64



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 508 of the Standard Specifications.
 See special provision for Mechanical Splicers.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

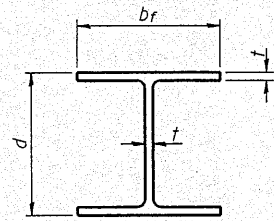
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 102-0069**



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 No. 184-001907

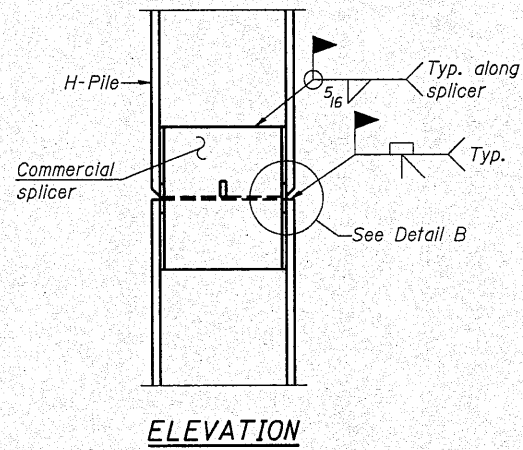
SHEET NO. 16
 19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	31
CONTRACT NO. 68785				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

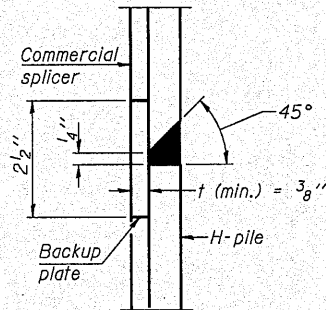


STEEL PILE TABLE

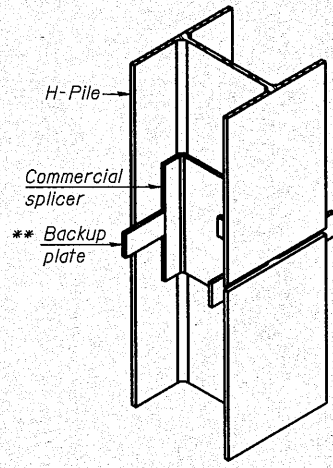
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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



ELEVATION

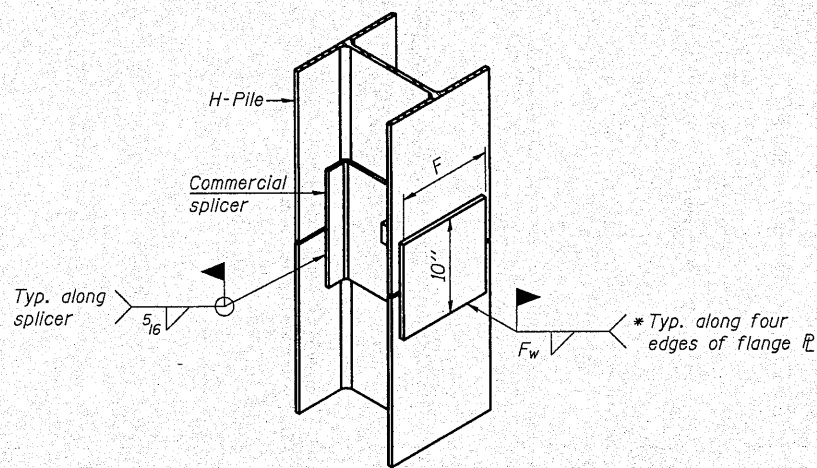


DETAIL "B"



ISOMETRIC VIEW

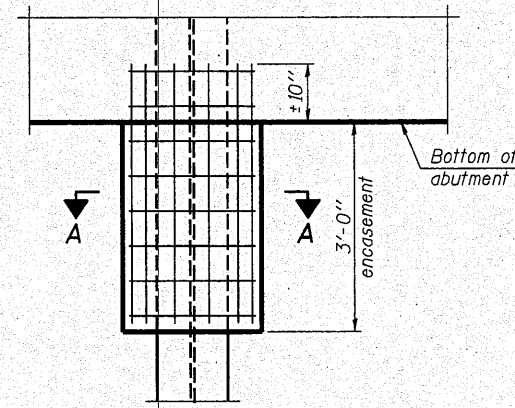
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

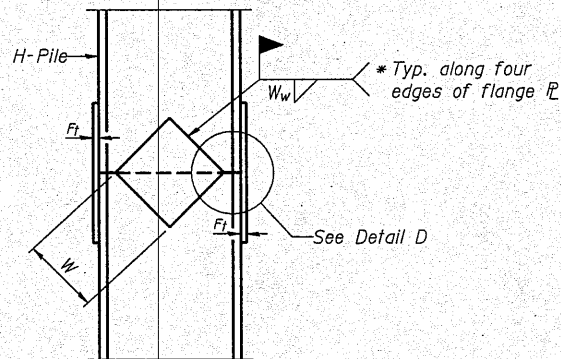
WELDED COMMERCIAL SPLICE ALTERNATE

- * 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

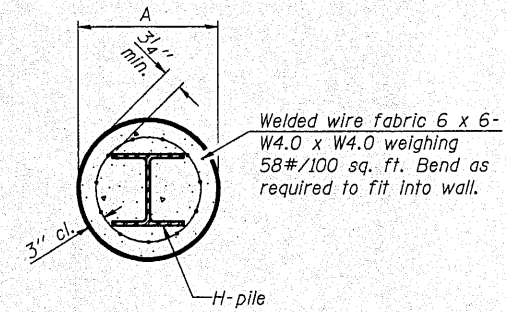
PILE ENCASEMENT



ELEVATION

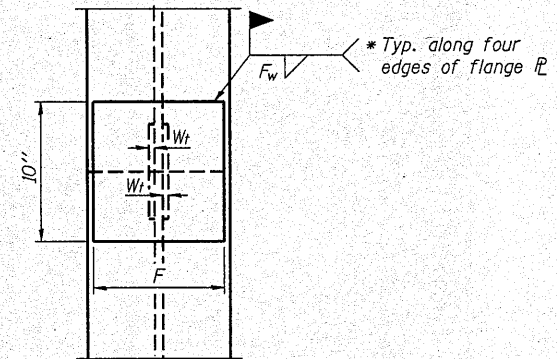
DETAIL D

WELDED PLATE FIELD SPLICE



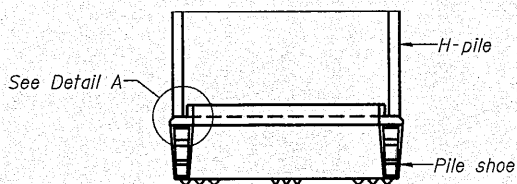
SECTION A-A

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

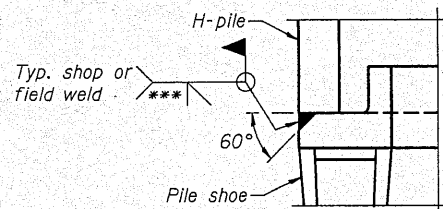


END VIEW

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



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

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

**HP PILE DETAILS
STRUCTURE NO. 102-0069**



Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
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No. 184-001907

SHEET NO. 17
19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	32
CONTRACT NO. 68785				
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		



Illinois Department of Transportation

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 1 of 2

Date 11/03/09

ROUTE IL 251 DESCRIPTION Structure over East Panther Creek LOGGED BY KEG - IK

SECTION (64-B-1)BR LOCATION 1.9 miles N of El Paso, SEC. 31SE,32SW, TWP. 27N, RNG. 2E

COUNTY Woodford DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

DEPTH	DIAMETER	UNCONFINED COMPRESSIVE STRENGTH	MOISTURE	DESCRIPTION	DEPTH	DIAMETER	UNCONFINED COMPRESSIVE STRENGTH	MOISTURE
(ft)	(in)	(tsf)	(%)		(ft)	(in)	(tsf)	(%)
				Surface Water Elev. _____ ft				
				Stream Bed Elev. _____ ft				
				Groundwater Elev.: _____ ft				
				First Encounter 684.7 ft				
				Upon Completion 687.2 ft				
				After _____ Hrs. _____ ft				
0				CLAY: Dark brown, trace sand (A-7) (continued)	0			
3				Becomes brown and gray, some sand, trace fine gravel	2			
2	0.5	17			4	0.8	17	
3	P				5	P		
				SILT: Grayish brown (A-4)				
3				Becomes dark brown and gray	3			
3	0.3	33			7	2.7	16	
3	P				13	S/15		
				SANDY CLAY: Grayish brown, trace fine gravel (A-6)				
2	<0.25	31		Becomes dark brown	18			
2	P			Hard drilling at 25.5 to 26 feet. No recovery.	26			
					29			
3					8			
7	0.5	20			15	4.4	11	
6	P				19	S		
				Trace concrete				
1	1.3	25						
2	P							
				SILT: Grayish brown, some sand (A-4)				
2				SILTY CLAY: Dark brown (A-7)	20			
3	0.9	23			00/10	3.9	9	
4	B					S		
				CLAY: Dark brown, trace sand (A-7)				
2								
4	0.5	25						
5	P							
				SANDY CLAY: Grayish brown, trace fine gravel (A-6)				
2				Becomes brown and dark brown	35			
2	1.3	26			50	4.5	7	
4	B				50/3"	P		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation

Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Page 2 of 2

Date 11/03/09

ROUTE IL 251 DESCRIPTION Structure over East Panther Creek LOGGED BY KEG - IK

SECTION (64-B-1)BR LOCATION 1.9 miles N of El Paso, SEC. 31SE,32SW, TWP. 27N, RNG. 2E

COUNTY Woodford DRILLING METHOD CME 55LC/HSA HAMMER TYPE Automatic

DEPTH	DIAMETER	UNCONFINED COMPRESSIVE STRENGTH	MOISTURE	DESCRIPTION	DEPT	DIAMETER	UNCONFINED COMPRESSIVE STRENGTH	MOISTURE
(ft)	(in)	(tsf)	(%)		(ft)	(in)	(tsf)	(%)
				Surface Water Elev. _____ ft				
				Stream Bed Elev. _____ ft				
				Groundwater Elev.: _____ ft				
				First Encounter 684.7 ft				
				Upon Completion 687.2 ft				
				After _____ Hrs. _____ ft				
				TOPSOIL & CRUSHED ROCK - 12 inches				
				704.7				
				FILE: Dark brown, clay, trace to some sand (A-7)				
3								
2	0.5	17						
3	P							
				SILT: Grayish brown (A-4)				
3				Becomes dark brown and gray	3			
3	0.3	33			7	2.7	16	
3	P				13	S/15		
				SANDY CLAY: Grayish brown, trace fine gravel (A-6)				
2	<0.25	31		Becomes dark brown	18			
2	P			Hard drilling at 25.5 to 26 feet. No recovery.	26			
					29			
3					8			
7	0.5	20			15	4.4	11	
6	P				19	S		
				Trace concrete				
1	1.3	25						
2	P							
				SILT: Grayish brown, some sand (A-4)				
2				SILTY CLAY: Dark brown (A-7)	20			
3	0.9	23			00/10	3.9	9	
4	B					S		
				CLAY: Dark brown, trace sand (A-7)				
2								
4	0.5	25						
5	P							
				SANDY CLAY: Grayish brown, trace fine gravel (A-6)				
2				Becomes brown and dark brown	35			
2	1.3	26			50	4.5	7	
4	B				50/3"	P		
				SANDY CLAY: Grayish brown, trace fine gravel (A-6) (continued)				
				SAND: Gray, fine to medium, trace fine gravel (A-3)				
				661.7	33		15	
					35			
					30			
				SANDY CLAY: Brown, trace fine gravel (A-6)				
				658.2				
					31			
					50	11.0	7	
					50/4"	B		
				SAND: Brown, fine to coarse, trace to some silt, clay, trace fine gravel (A-2)				
				653.7				
					50			
					50/3"		7	
				Boring terminated at 54.3 ft.				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

BORING LOGS
STRUCTURE NO. 102-0069



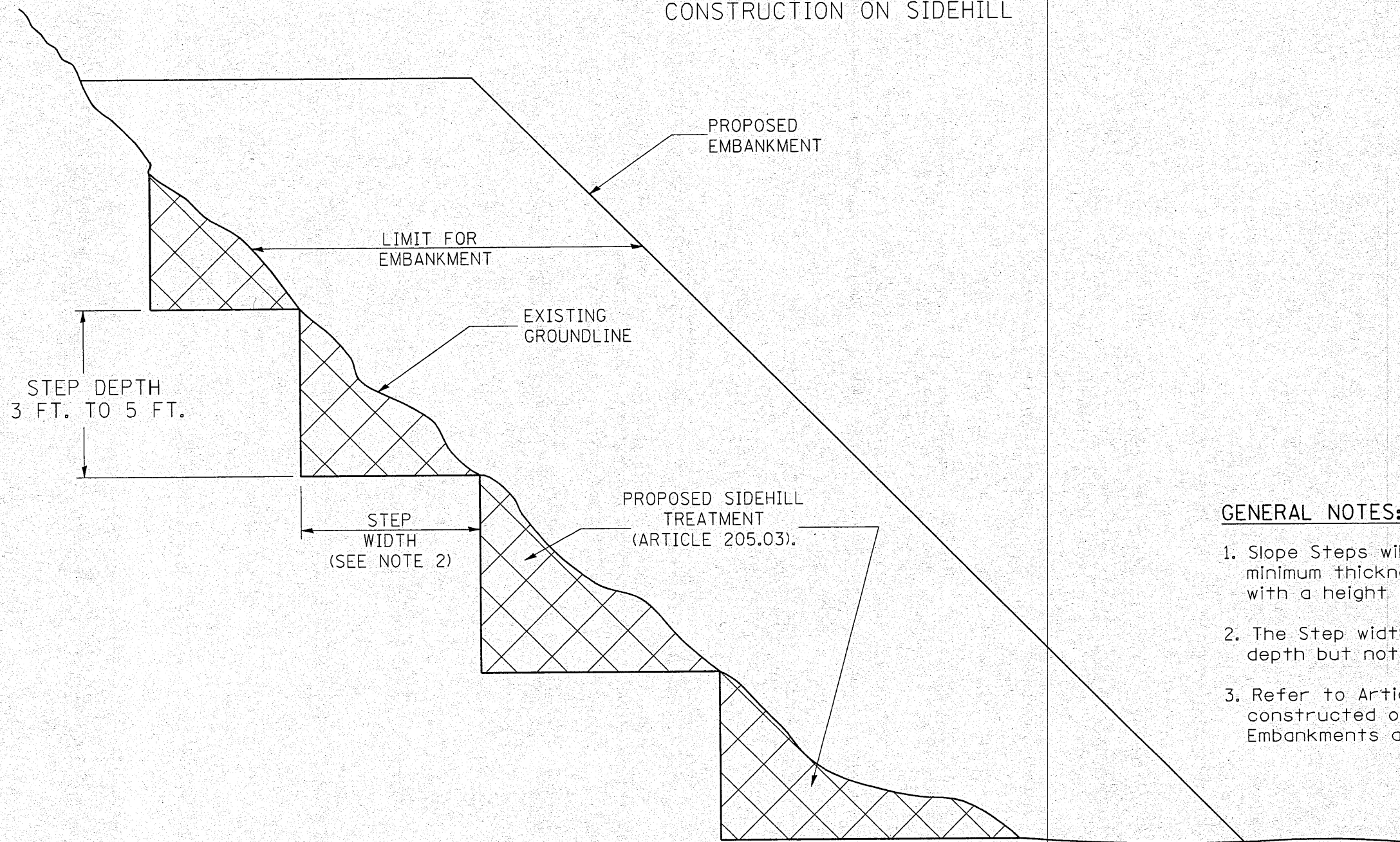
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62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

SHEET NO. 19
19 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	34
CONTRACT NO. 68785				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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.

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

REPLACEMENT MATERIAL:



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

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.		
	BOX, REVISED GENERAL NOTES.			
10-16-06	REVISED TO 2007 SPEC.	M.A.		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

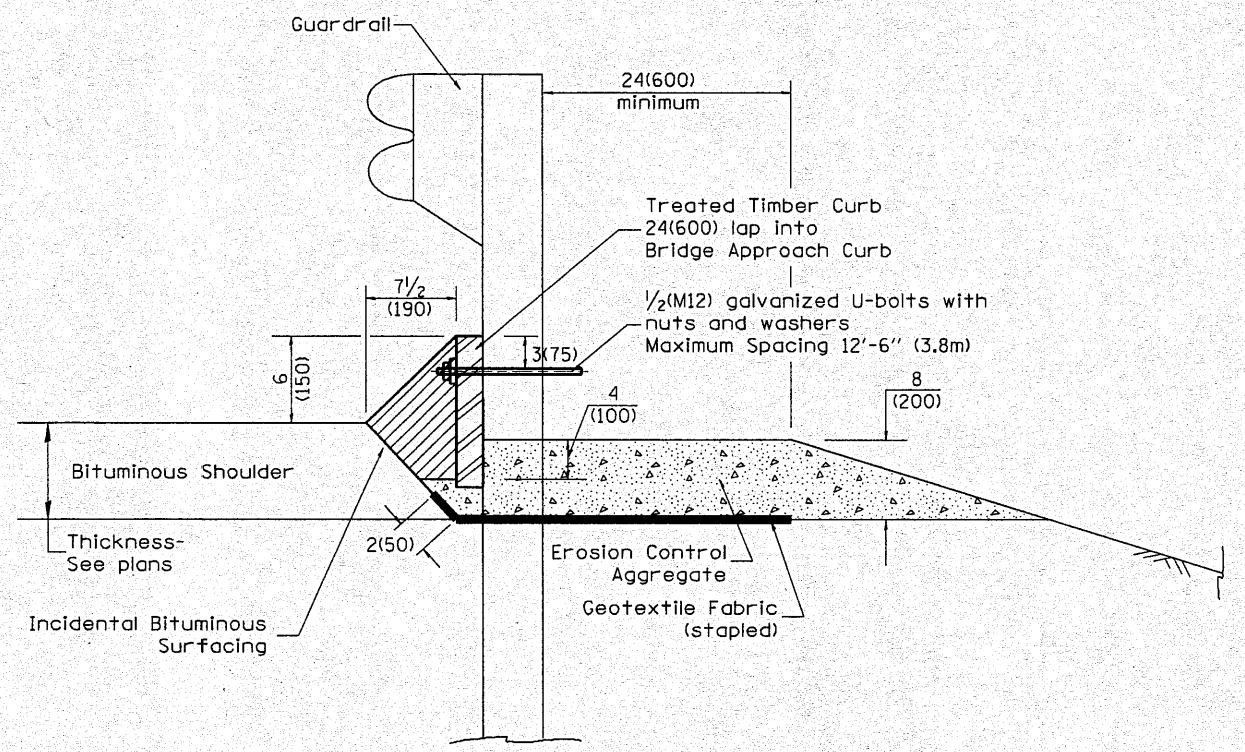
NOT TO SCALE

SLOPE STEPS DETAIL

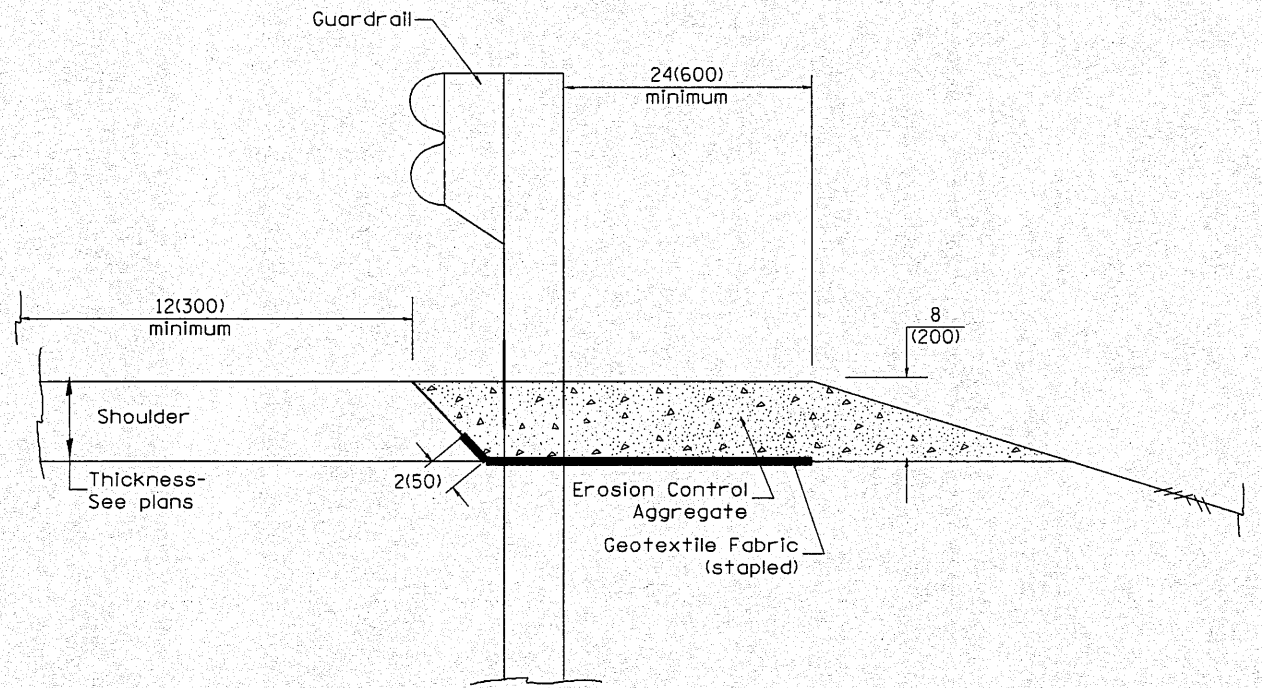
CADD STD. 205001-04

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	35
CONTRACT NO. 68785				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DESIGNER NOTES:
 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.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.
11-03-00	CORRECTION TO NOTES	M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

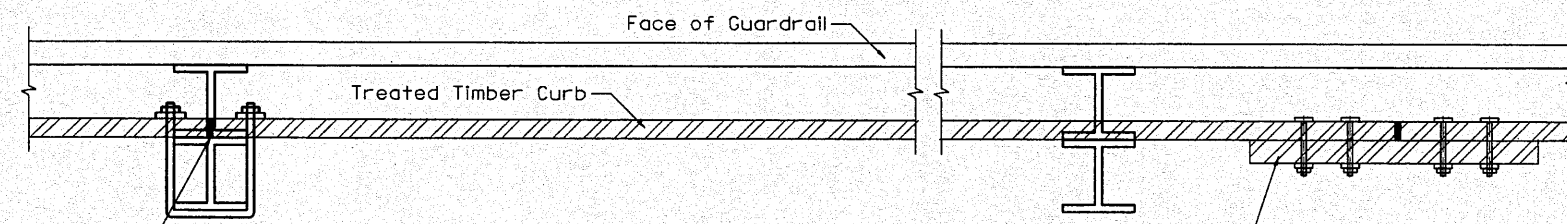
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

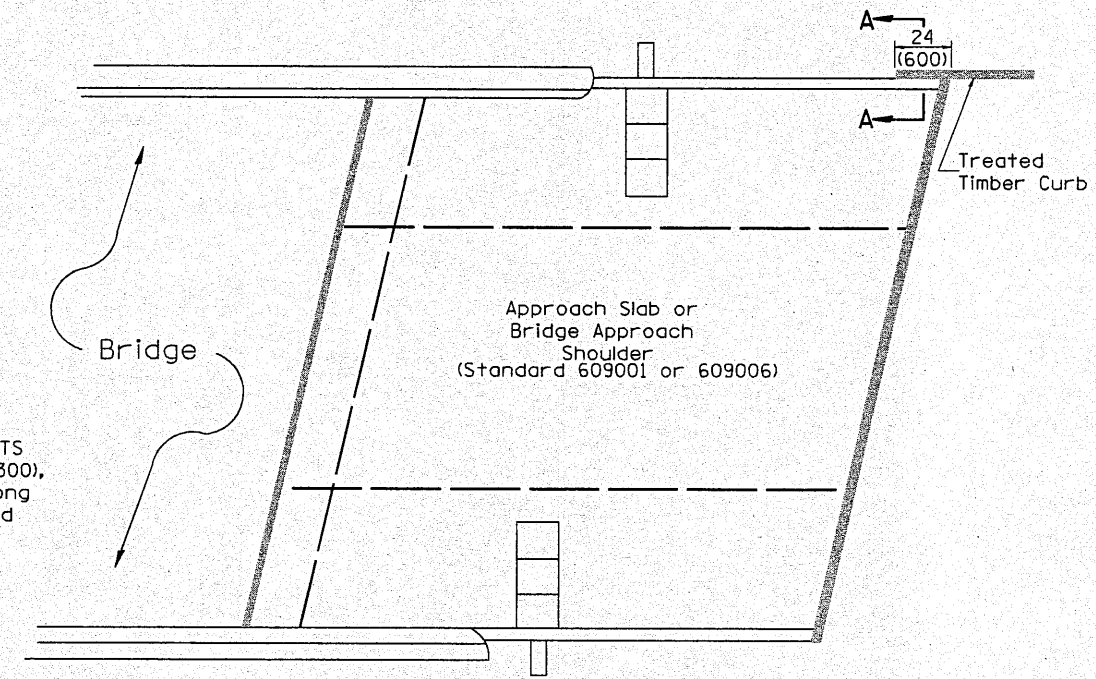
NOT TO SCALE

SHT. 1 OF 2
CADD STD. 630101-D4

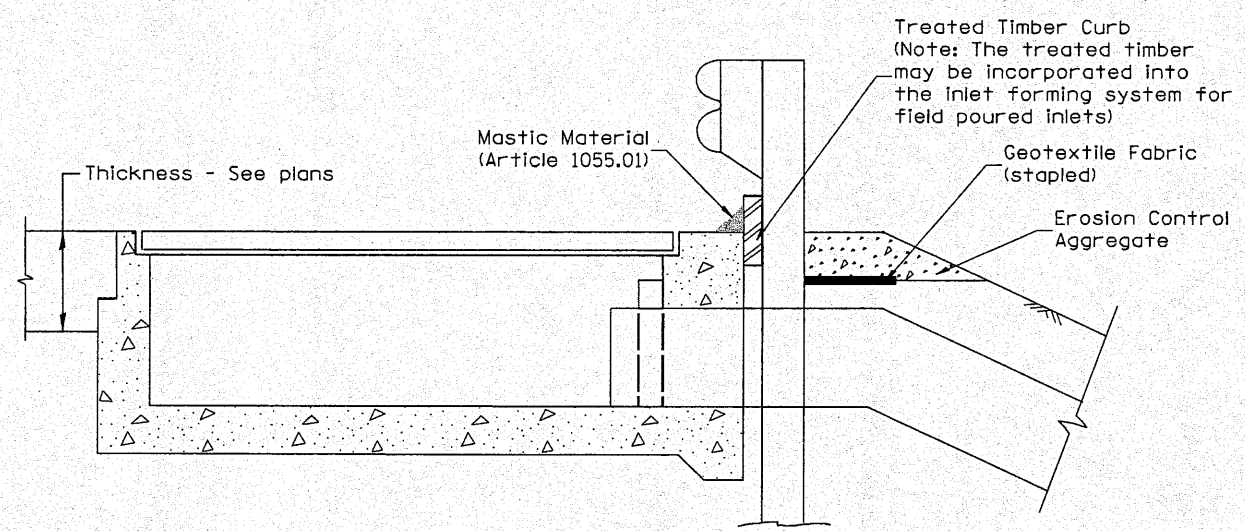
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	36
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68785	



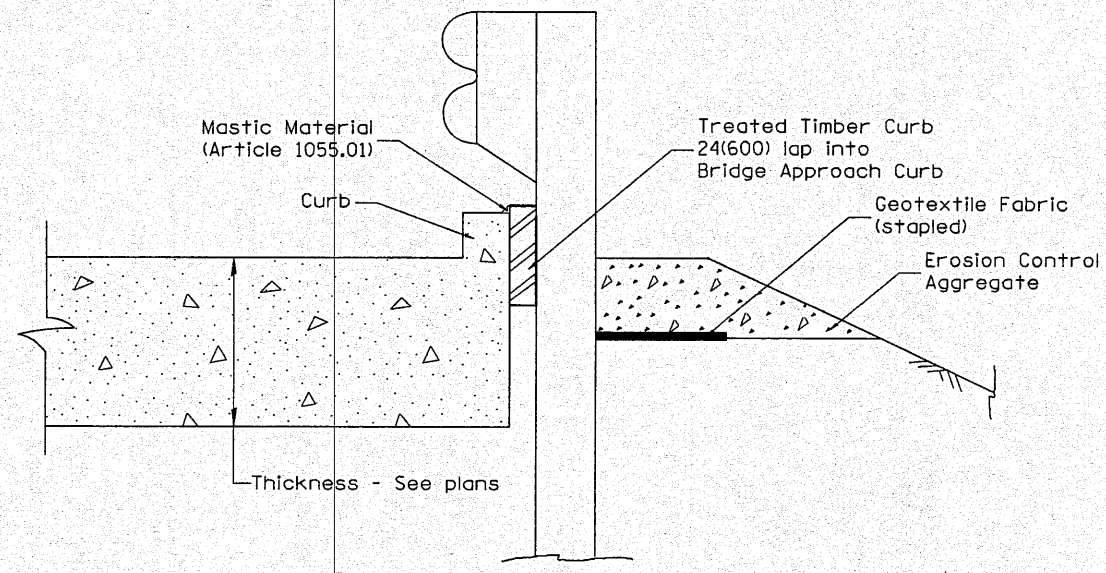
DETAIL A
(Typical Treated Timber Splices)



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)



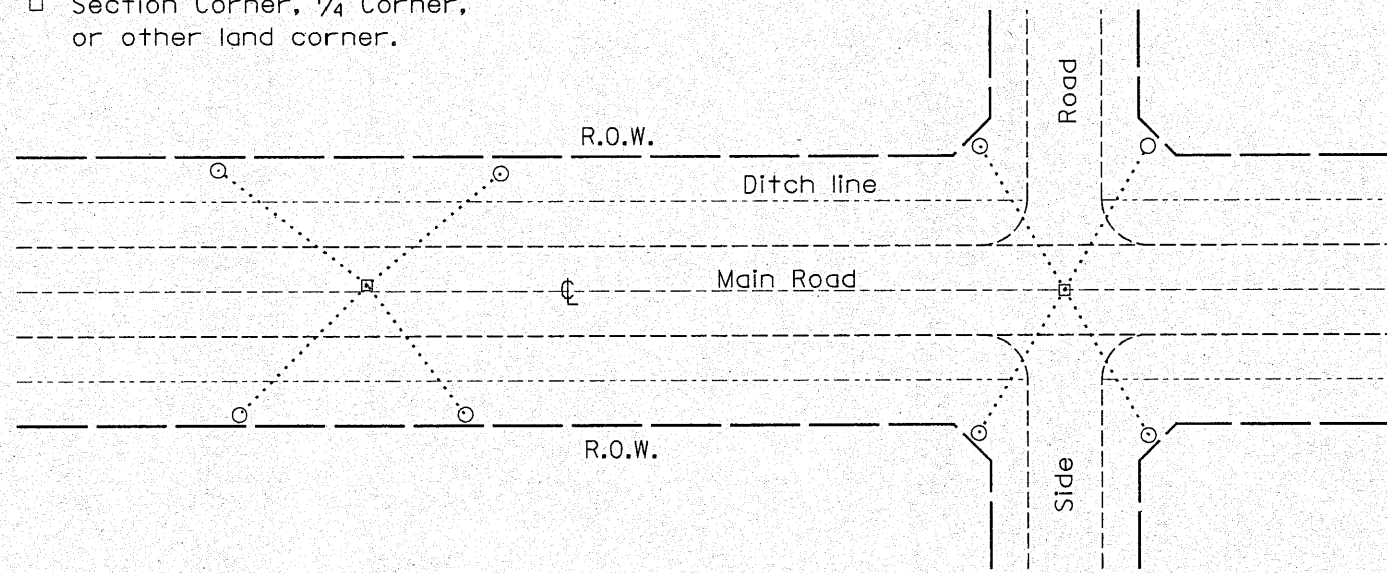
SECTION A-A
TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

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.
				NOT TO SCALE				1360	(64-B-1)BR	WOODFORD	45	37
				SHT. 2 OF 2 CADD STD. 630101-04				CONTRACT NO. 68785				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PERMANENT SURVEY TIES

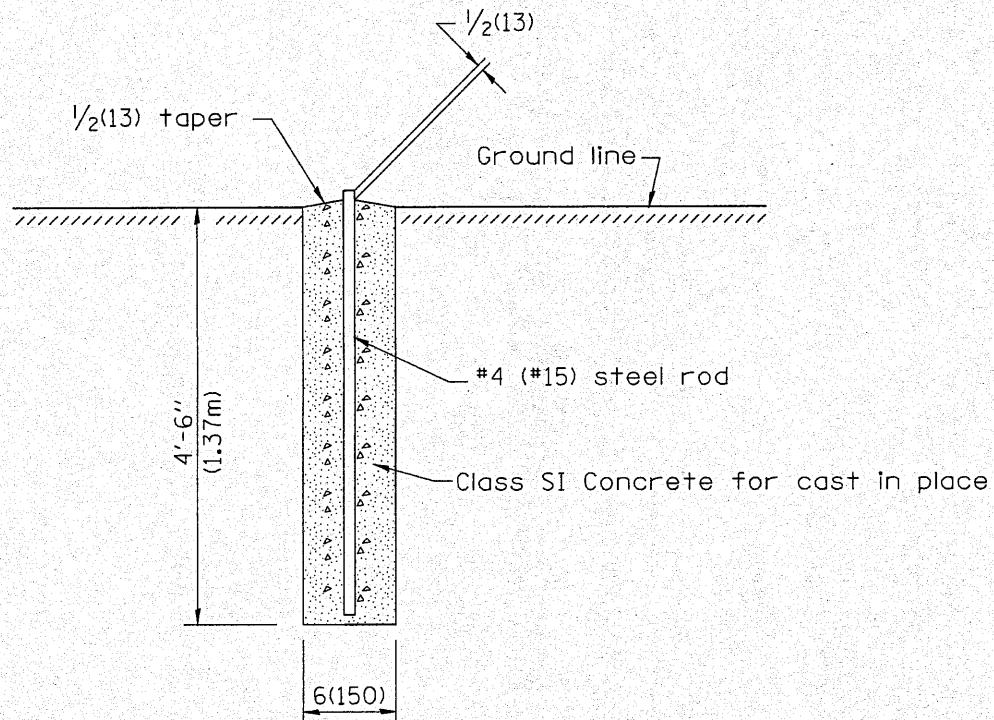
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



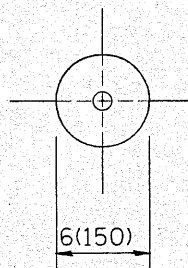
TYPICAL APPLICATION

GENERAL NOTES

1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the IDOT Chief of Surveys.



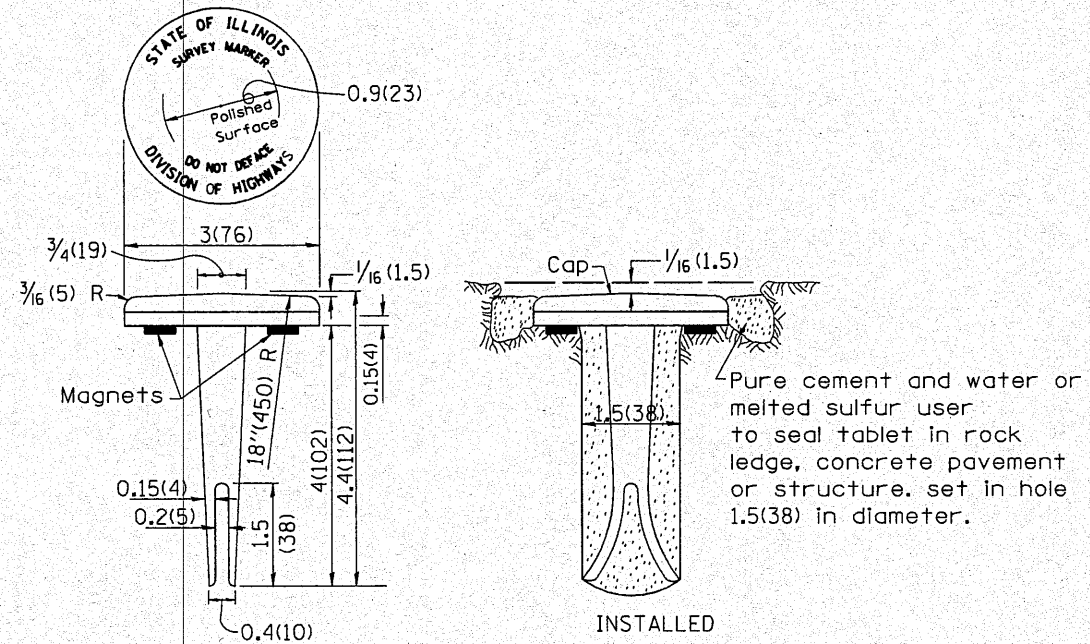
SECTION



PLAN

DESIGNER NOTES:
1. ADD DISTRICT SPECIAL PROVISION.
2. MODIFIES STATE STD 667101 TO CALL FOR "BRONZE" TABLET.

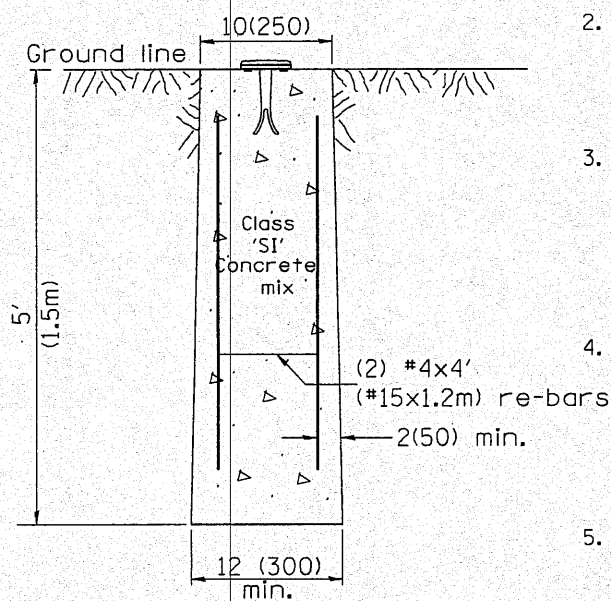
PERMANENT SURVEY MARKERS



**BRONZE TABLET - No Scale
TYPE I**

GENERAL NOTES

1. All type II markers 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 markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s and P.C.'s of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers 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 monuments 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 marker has been installed.



**MARKER CAST IN PLACE
TYPE II**

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

01-01-97	RENUM. D-3.01. NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE				
07-07-98	ADD DESIGNER NOTE	J.A.			
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.			

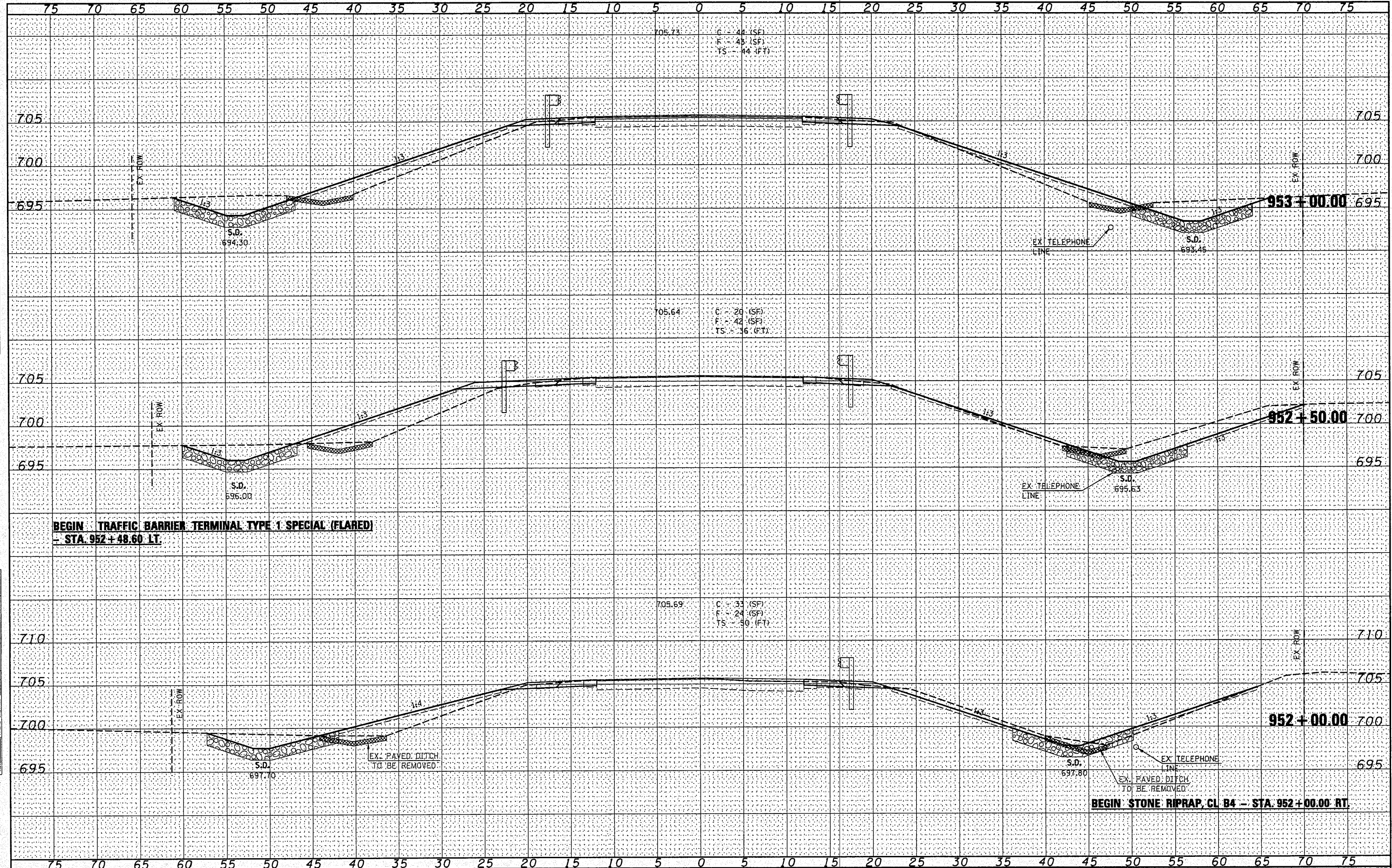
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I - TY.II**

NOT TO SCALE

CADD STD. 667101-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1360	(64-B-1)BR	WOODFORD	45	38
CONTRACT NO. 68785				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



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

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

BEGIN TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (FLARED)
- STA. 952+48.60 LT.

BEGIN STONE RIPRAP, CL B4 - STA. 952+00.00 RT.

FILE NAME =	
USER NAME = *USER*	
DESIGNED -	
DRAWN -	
CHECKED -	
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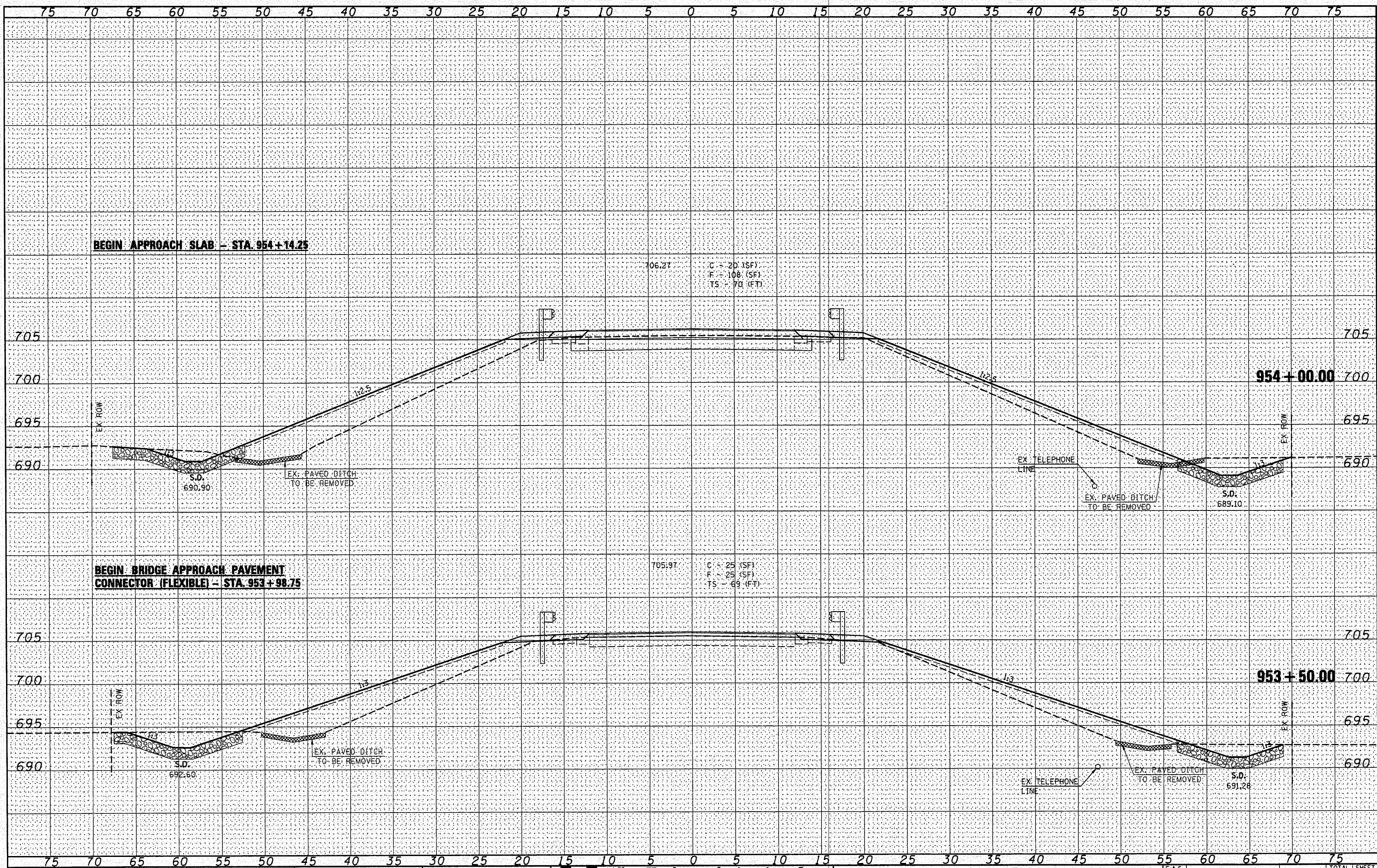
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 2 OF 7 SHEETS
STA. 952+00.00 TO STA. 953+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1361	(64-B-1)BR	WOODFORD	45	40
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 68785				

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

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



FILE NAME =	USER NAME = *USER*
PLOT SCALE = 10.0000' / IN.	DESIGNED -
PLOT DATE = 10/25/2010	DRAWN -
	CHECKED -
	DATE -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



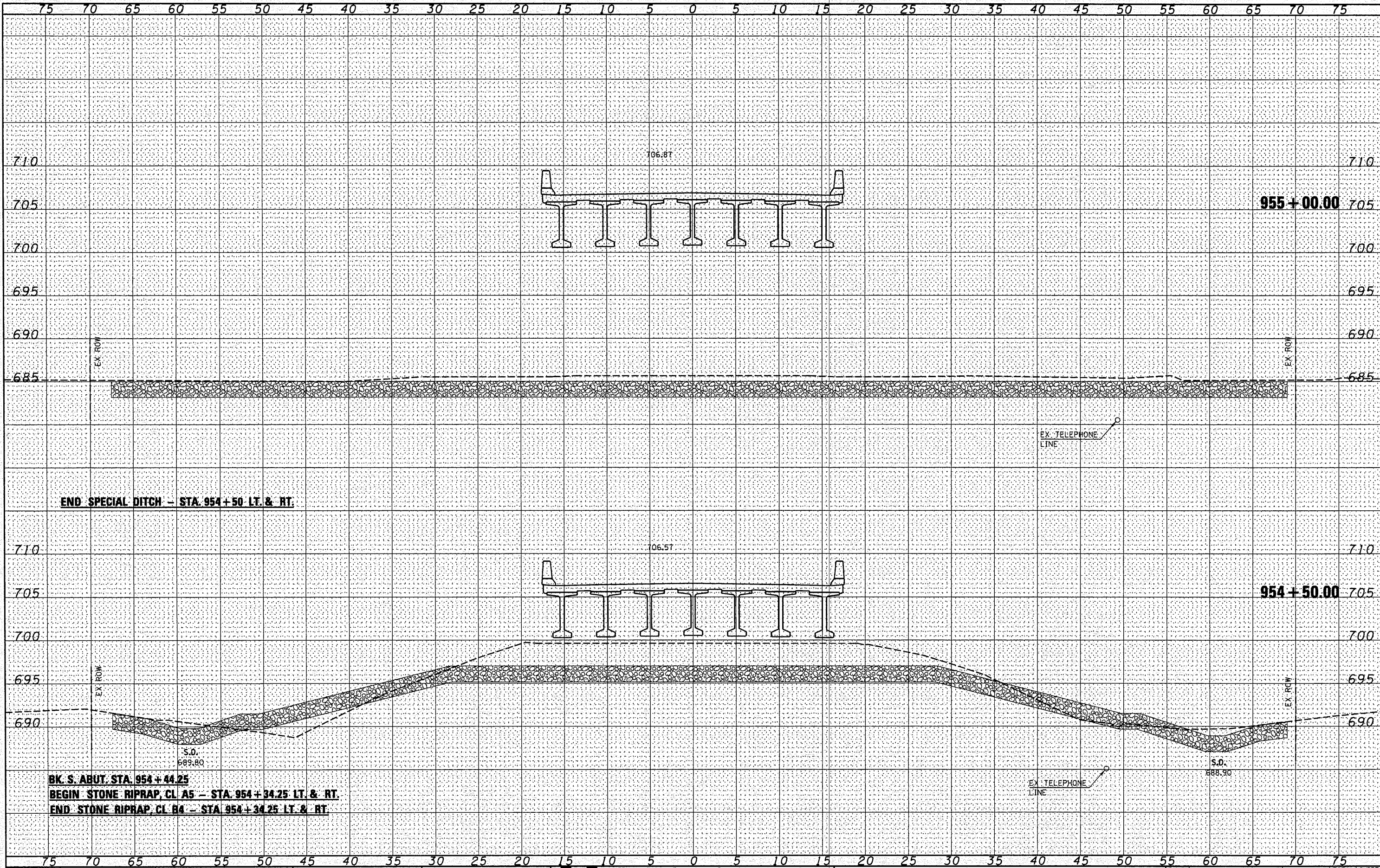
Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 3 OF 7 SHEETS
STA. 953+50.00 TO STA. 954+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1361	64-B-1BR	WOODFORD	45	41
CONTRACT NO. 68785				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	
USER NAME	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	
USER NAME	



END SPECIAL DITCH - STA. 954 + 50 LT. & RT.

BK. S. ABUT. STA. 954 + 44.25
 BEGIN STONE RIPRAP, CL A5 - STA. 954 + 34.25 LT. & RT.
 END STONE RIPRAP, CL B4 - STA. 954 + 34.25 LT. & RT.

FILE NAME	
USER NAME	*USER*
PLOT SCALE	= 10.0000' / IN.
PLOT DATE	= 10/25/2010

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

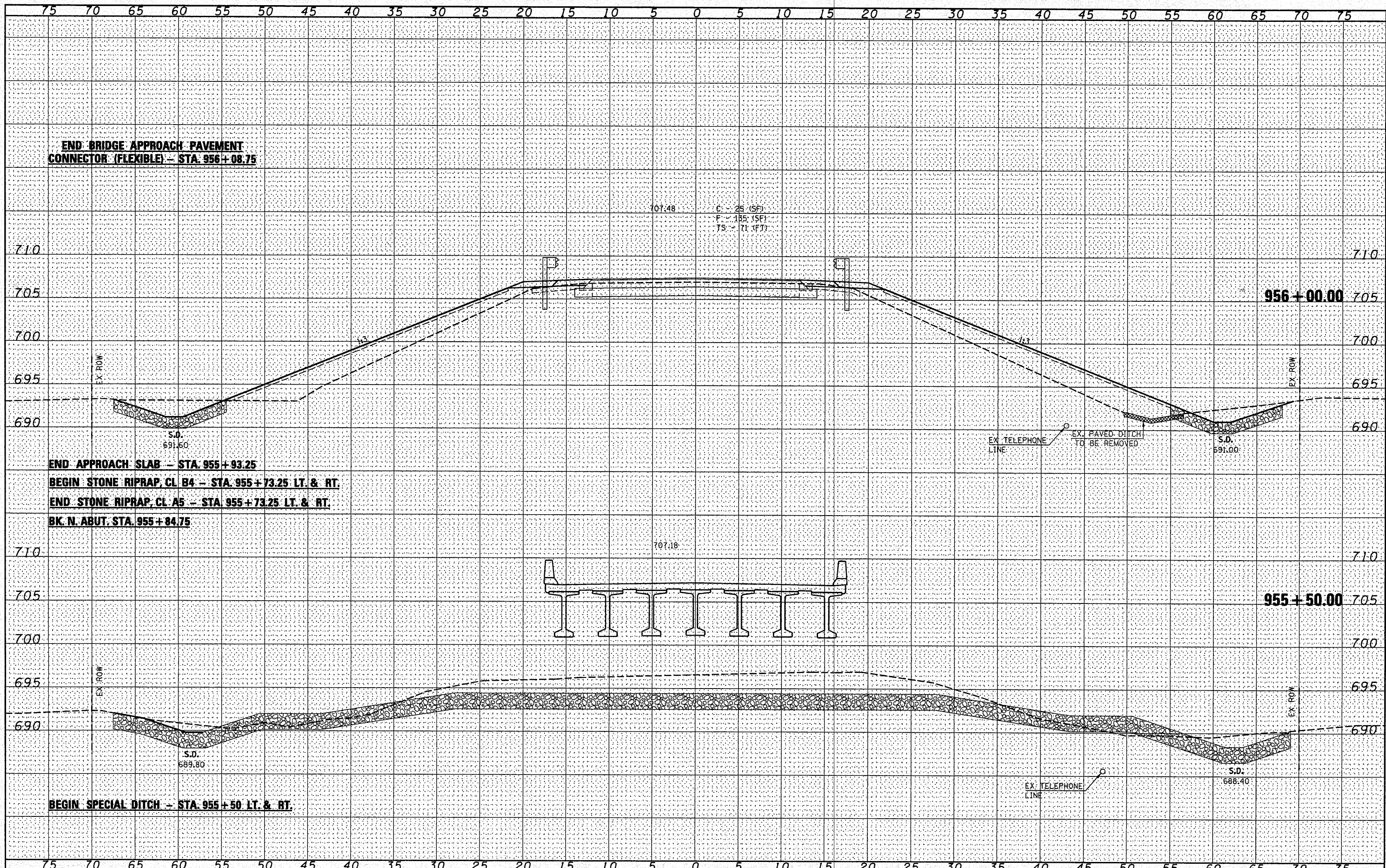
Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907


CROSS SECTIONS
 SCALE: 1" = 5'
 SHEET NO. 4 OF 7 SHEETS
 STA. 954+50.00 TO STA. 955+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1361	(64-B-1)BR	WOODFORD	45	42
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 68785		

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

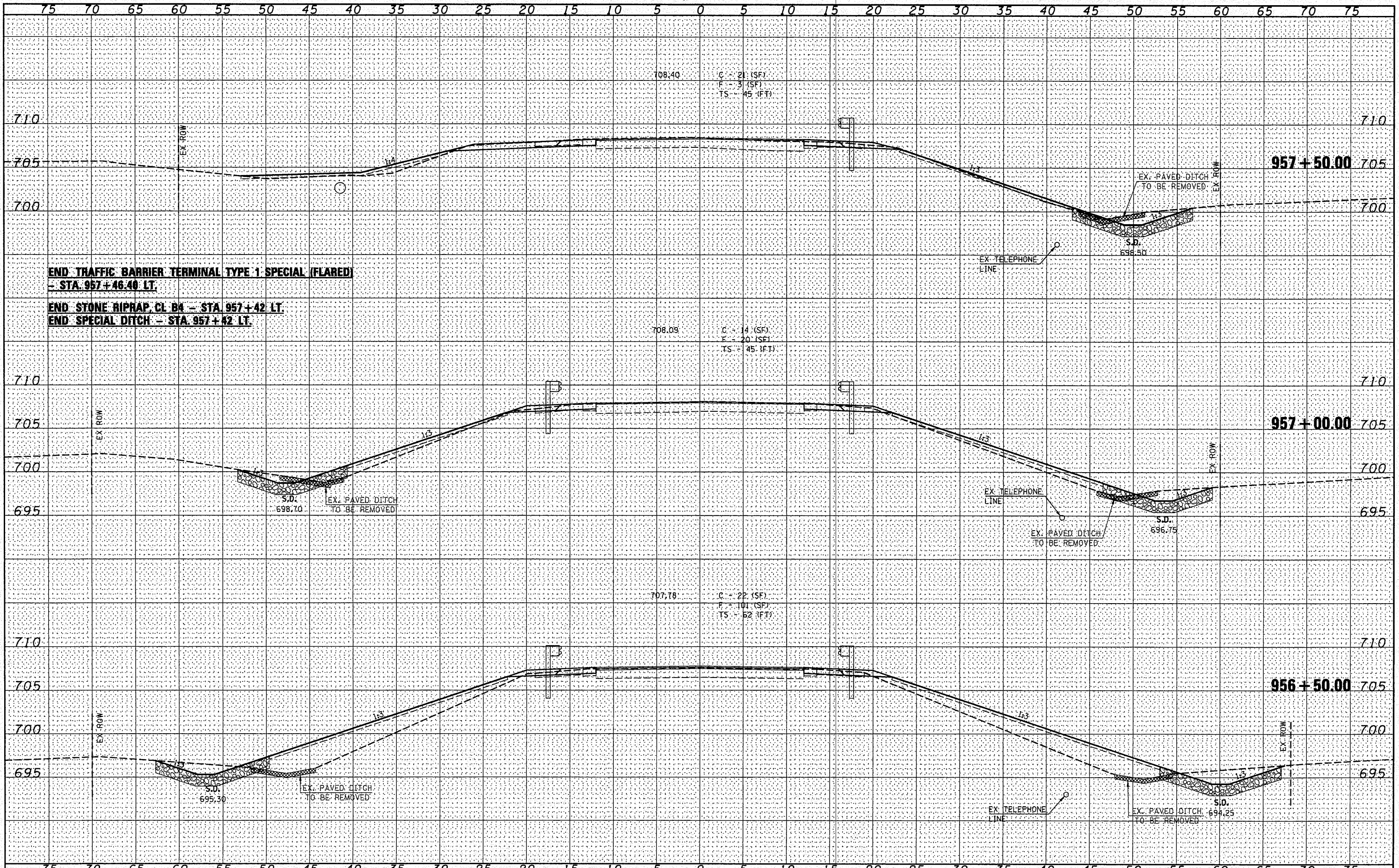
DATE	
BY	
NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = \$USER*	DESIGNED -	REVISED -	 Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	CROSS SECTIONS		F.A.S. RTE. 136I	SECTION (64-B-1)BR	COUNTY WOODFORD	TOTAL SHEETS 45	SHEET NO. 43	
	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -		SCALE: 1" = 5'	SHEET NO. 5 OF 7 SHEETS	STA. 955+50.00 TO STA. 956+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 68785		
	PLOT DATE = 10/25/2010	CHECKED -	REVISED -									
		DATE -	REVISED -									

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

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



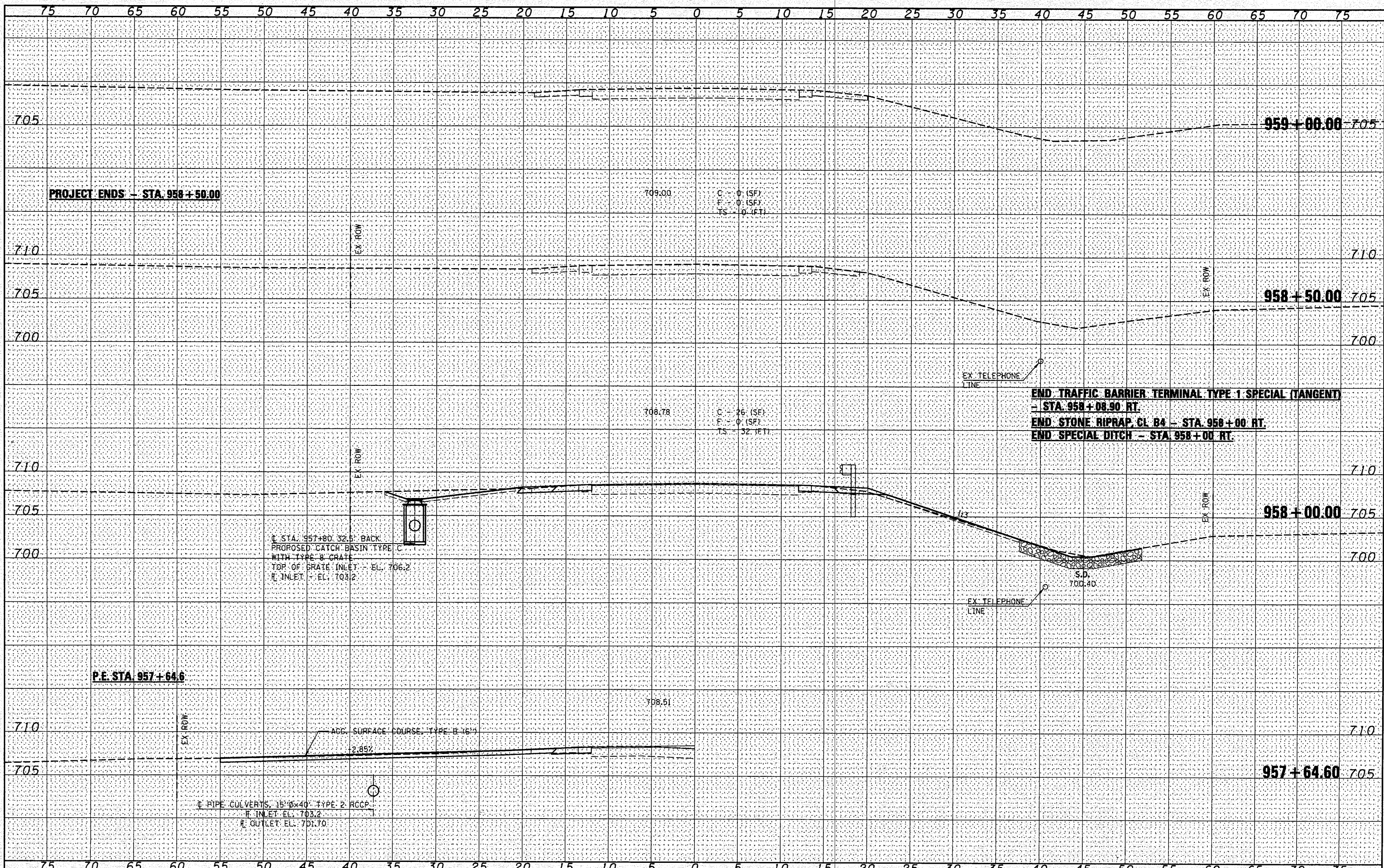
END TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (FLARED)
- STA. 957+46.40 LT.

END STONE RIPRAP, CL B4 - STA. 957+42 LT.
END SPECIAL DITCH - STA. 957+42 LT.

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	<p>Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p align="center">CROSS SECTIONS</p>		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 10,0000' / IN.	DRAWN -	REVISED -		1361	(64-B-1)BR	WOODFORD	45	44		
	PLOT DATE = 10/25/2010	CHECKED -	REVISED -		<p align="center">CONTRACT NO. 68785</p>						
		DATE -	REVISED -		<p align="center">SCALE: 1" = 5' SHEET NO. 6 OF 7 SHEETS STA. 956+50.00 TO STA. 957+50.00</p>			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

BY	DATE
SURVEYED	
PLOTTED	
REPLATE	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
REPLATE	
AREAS CHECKED	
NO.	



@ STA. 957+80.32 BACK
 PROPOSED CATCH BASIN TYPE C
 WITH TYPE B GRATE
 TOP OF GRATE INLET - EL. 706.2
 @ INLET - EL. 703.2

P.E. STA. 957+64.6

ACC. SURFACE COURSE, TYPE B (6")
 2.85%

@ PIPE CULVERTS, 15" x 40" TYPE 2 RCCP
 @ INLET EL. 703.2
 @ OUTLET EL. 701.70

END TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)
 - STA. 958+08.90 RT.
 END STONE RIPRAP CL B4 - STA. 958+00 RT.
 END SPECIAL DITCH - STA. 958+00 RT.

FILE NAME	USER NAME # USER#
PLOT SCALE = 10.0000' / IN.	CHECKED -
PLOT DATE = 10/25/2010	DATE -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

CROSS SECTIONS	
SCALE: 1" = 5'	SHEET NO. 7 OF 7 SHEETS
STA. 957+64.00 TO STA. 959+00.00	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1361	(64-B-1)BR	WOODFORD	45	45
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 68785		