

# 42 72677 3-5-04 FAI-55 Montgomery 68-5RS-1 # 42

42

100%  
10-6-2004

FOR INDEX OF SHEETS, SEE SHEET NO. 2

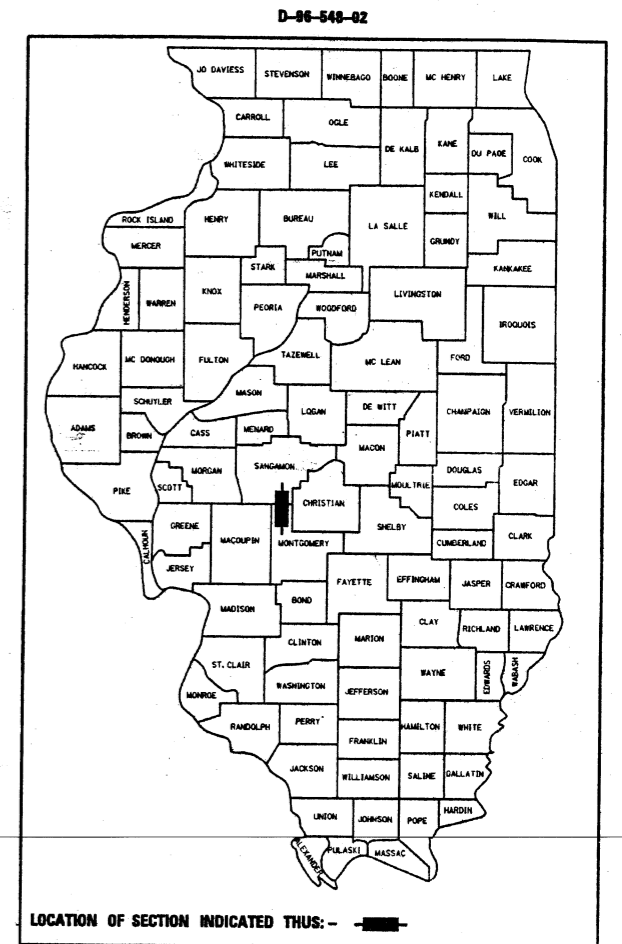
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAI ROUTE 55 (I-55)  
SECTION 68-5RS-1  
PROJECT: IM-055-2(117)070  
MONTGOMERY COUNTY  
C-96-524-04

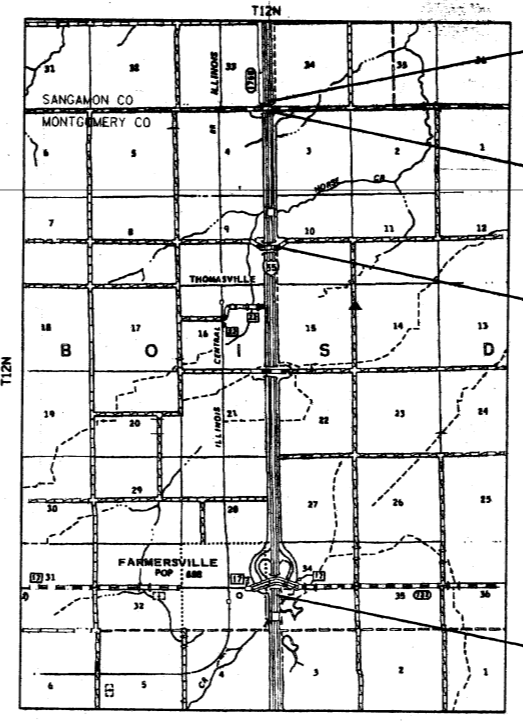
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	68-5RS-1	MONTGOMERY	51	1

72677



LIST OF ILLINOIS DOT HIGHWAY STANDARDS

420001-05	701106
442001-01	
442101-05	701301-01
604101	701306
604106	701311-02
630001-04	701401
631032-01	701406-02
631033-01	701411-02
635001	701426-01
635006-02	702001-03
635011-01	780001-01
701001	781001-02
701006-01	000001-04
701011	BLR 21-6
701101	

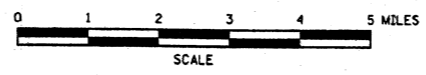


BEGIN PROJECT  
STA 755+37.51

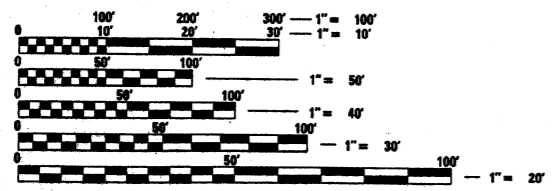
SECTION INCLUDES REHABILITATION OF SN 068-0105  
(3 SPANS, 356'-0" BK TO BK APPR BENTS)  
CARRYING TR 1 OVER FAI 55

SECTION INCLUDES REHABILITATION OF SN 068-0035  
(3 SPANS, 335'-4" BK TO BK APPR BENTS)  
CARRYING TR 7 OVER FAI 55

END PROJECT  
STA 1052+87.51



NET LENGTH OF PROJECT = 29,750.00 FEET = 5.63 MILES



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

CONTRACT NO. 72677 068-0035

ADT 27,700

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Dec 18 20 03  
Clinton M. Reed  
DISTRICT ENGINEER

January 30 20 04  
Michael E. Reed  
ENGINEER OF DESIGN AND ENVIRONMENT

Theresa A. Maden  
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

6-281

068-0035

PROJECT ENGINEER: SAL MADONIA 217-782-4761  
SQUAD LEADER: JEFF MYERS 217-524-7940

**EXISTING STRUCTURE:**

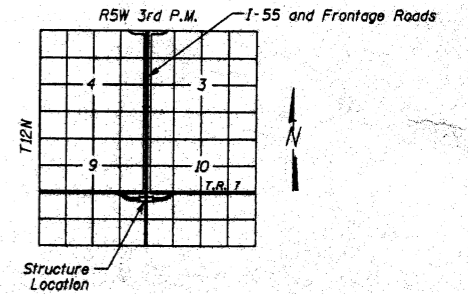
S.N. 068-0035 built in 1970 under section 68-5HB-2. The structure consists of three-span continuous steel welded plate beam girders, vaulted abutments with pre-stressed concrete I-beams and two 2-column piers. The structure has an overall length of 335'-4" measured from back-to-back of approach abutment bents and an out-to-out width of 30'-0".

**PROPOSED IMPROVEMENT:**

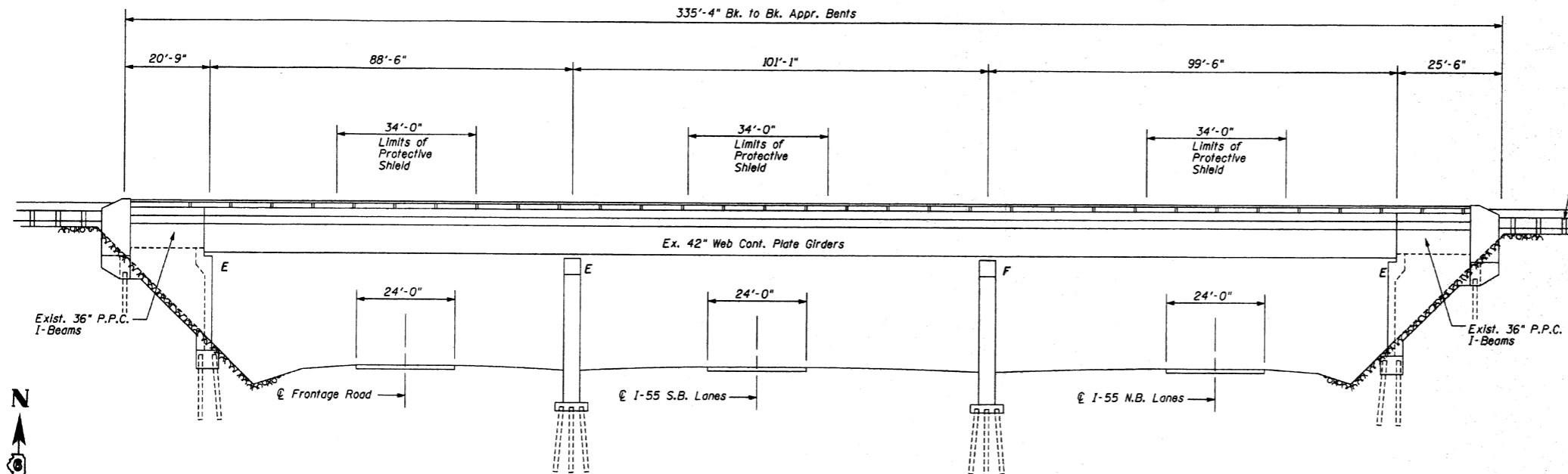
The proposed improvement consists of bituminous surface removal, deck slab repairs, rehabilitation of existing expansion joints, bridge deck hydro-scarification, construction of a microsilica overlay and plug floor drains as shown.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
55	68-5RS-1	MONTGOMERY	4-8
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			

Sheet No. 1 of 4 Sheets  
T2677



**LOCATION SKETCH**



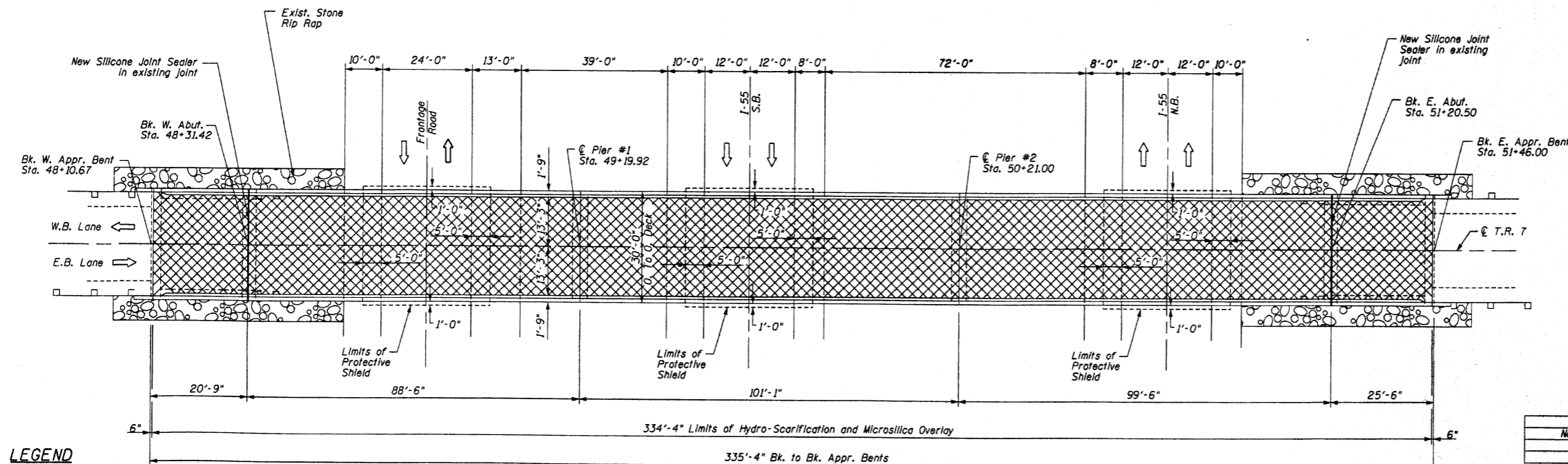
**ELEVATION**

**GENERAL NOTES**

- Bridge to be closed to traffic throughout construction in accordance with "Maintenance of Traffic Road Closure Plan".
- Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to normal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work. However, the Contractor will be paid for the quantity actually furnished at the contract unit price bid for the work.

**TOTAL BILL OF MATERIAL (S.N. 068-0035)**

Item	Unit	Quantity
Bituminous Concrete Removal (Deck)	Sq. Yd.	981
Bridge Deck Grooving	Sq. Yd.	910
Bridge Deck Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	981
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	42.3
Protective Shield	Sq. Yd.	363
Silicone Joint Sealer, 2"	Foot	28
Silicone Joint Sealer, 3"	Foot	28
Bridge Deck Hydro-Scarification, 1"	Sq. Yd.	981
Polymer Concrete	Cu. Ft.	6.1
Plug Existing Deck Drains	Each	4



**PLAN**

**LEGEND**

Indicates limits of Bituminous Concrete Removal, Bridge Deck Hydro-Scarification and Microsilica Concrete Overlay.



Sheila J. Kimminger 10/1/03  
Sheila J. Kimminger, P.E., S.E.  
Structural Engineer License No. 081-005283  
Expiration Date: 11/30/2004  
Date:

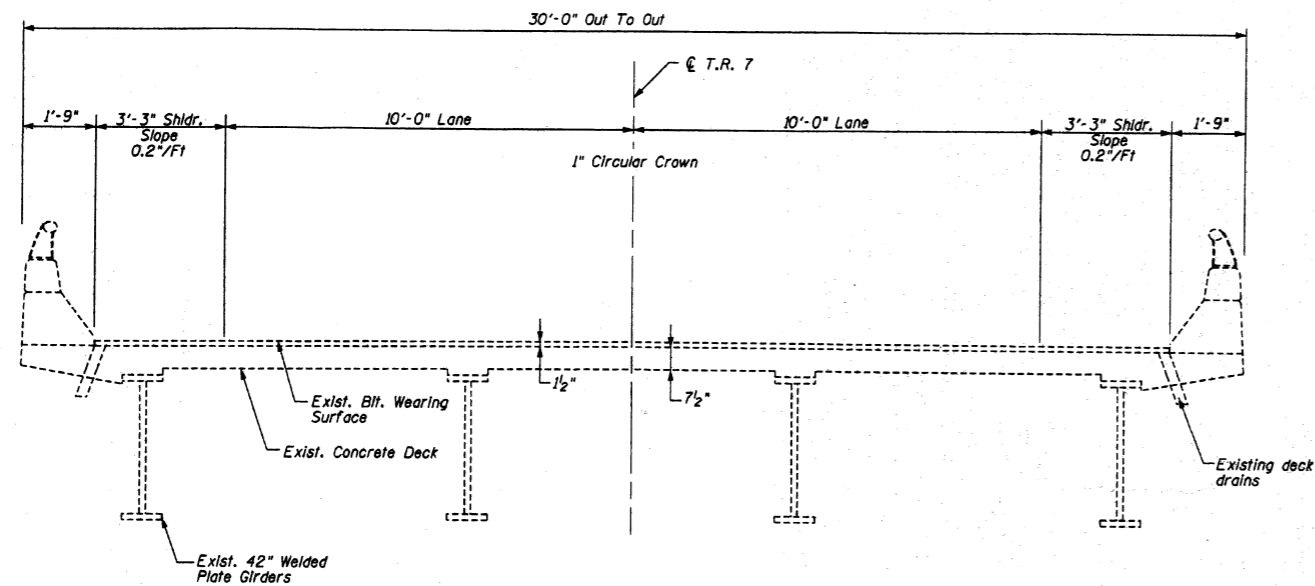
Revisions	
Name	Date

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL PLAN & ELEVATION**  
F.A.I. Route 55  
Section 68-5RS-1  
Montgomery County  
T.R. 7 over I-55  
S.N. 068-0035

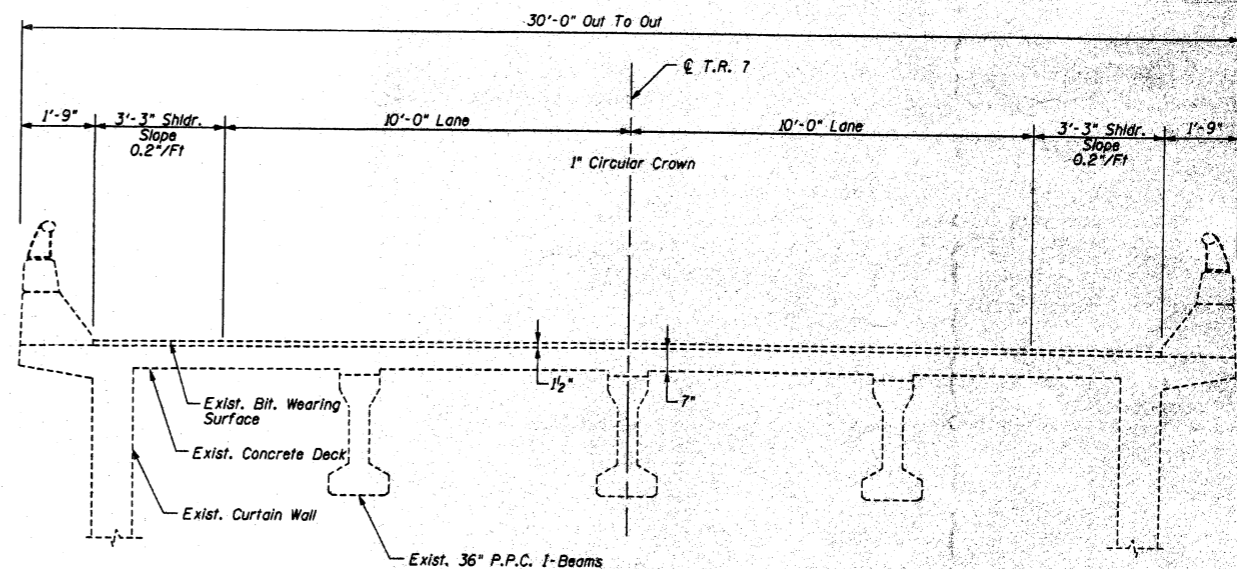
Scale: None  
Date: 4/03  
Drawn By: NJV  
Checked By: SJK

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS
55	68-5RS-1	MONTGOMERY	49
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	

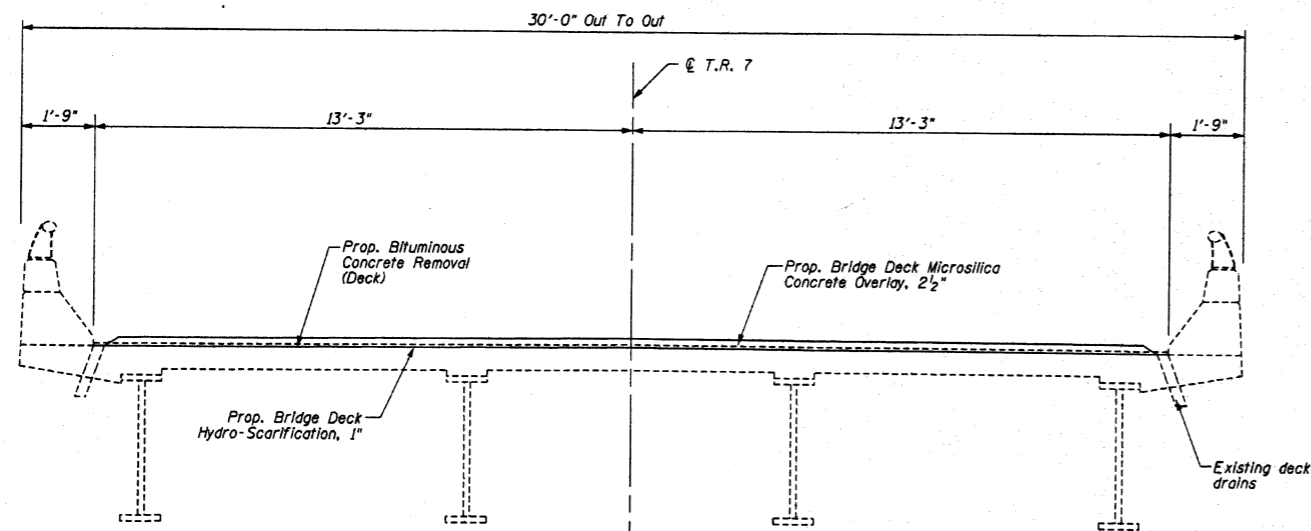
Sheet No. 2  
of 4 Sheets



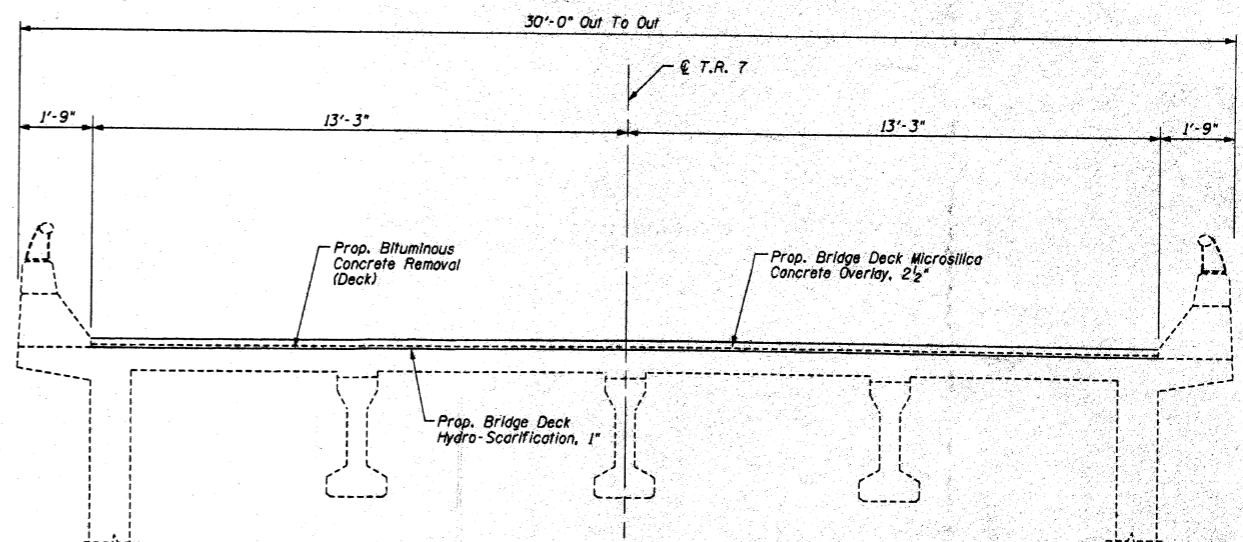
**EXISTING CROSS SECTION**  
(Mainspan - Looking East)



**EXISTING CROSS SECTION**  
(Vaulted Approach - Looking East)



**PROPOSED CROSS SECTION**  
(Mainspan - Looking East)



**PROPOSED CROSS SECTION**  
(Vaulted Approach - Looking East)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL CROSS SECTIONS**  
F.A.I. Route 55  
Section 68-5RS-1  
Montgomery County  
T.R. 7 Over I-55  
S.N. 068-0035

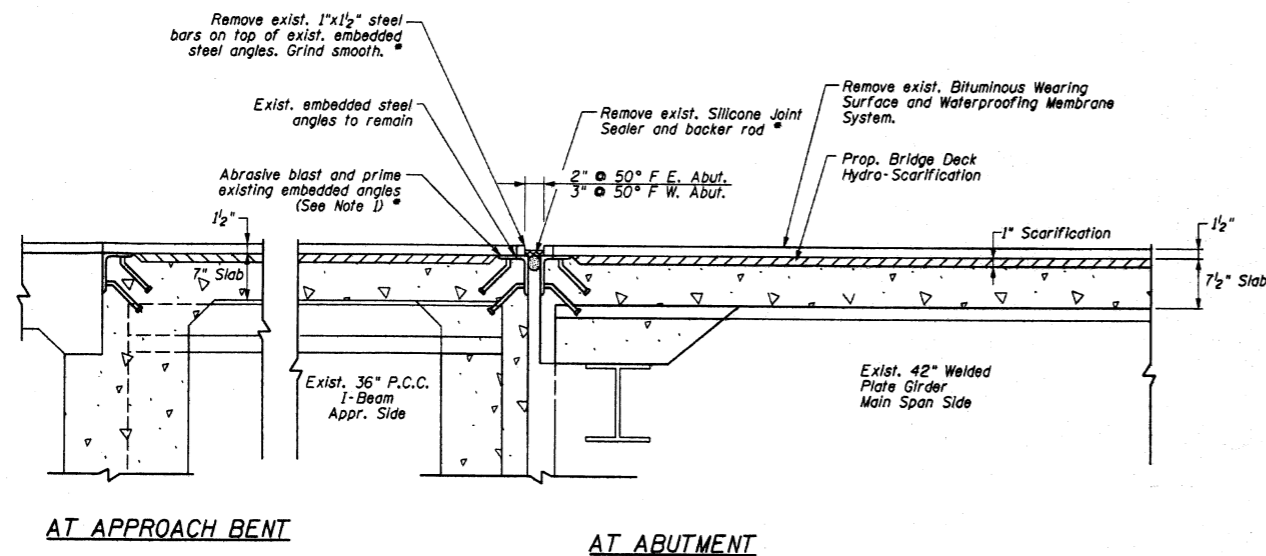
Scale: None  
Date: 4/03

Drawn By: NJV  
Checked By: SJK

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
55	68-5RS-1	MONTGOMERY	50	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Sheet No. 3  
of 4 Sheets

72677

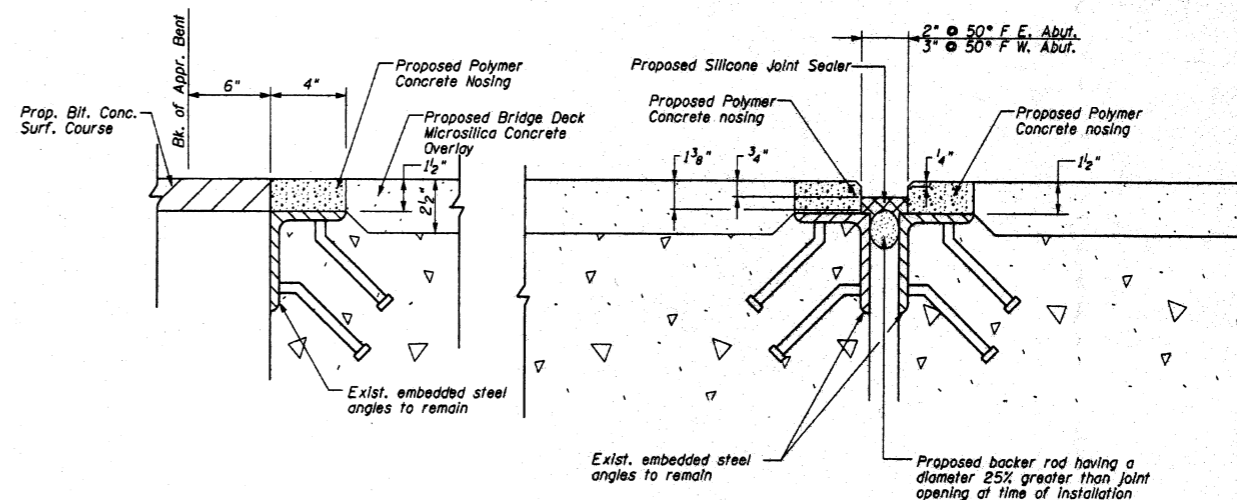


AT APPROACH BENT

AT ABUTMENT

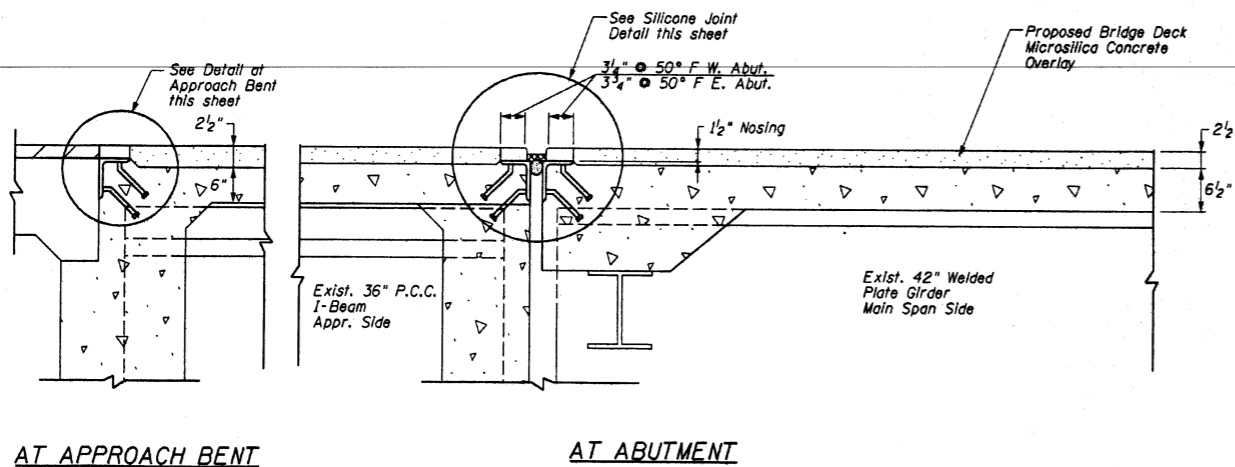
**EXISTING SECTION**

To be Included in the Cost of Silicone Joint Sealer



DETAIL AT APPROACH BENT

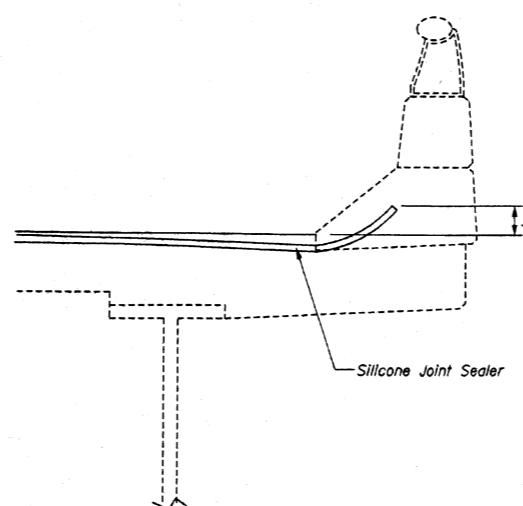
SILICONE JOINT DETAIL



AT APPROACH BENT

AT ABUTMENT

**PROPOSED SECTION**



TYPICAL END OF SEAL TREATMENT

**BILL OF MATERIAL**

Item	Unit	Quantity
Silicone Joint Sealer, 2"	Foot	28
Silicone Joint Sealer, 3"	Foot	28
Polymer Concrete	Cu. Ft.	6.1

**NOTES:**

- Abrasive blasting and priming of the embedded steel angles shall be performed in accordance with the surface preparation requirements of the special provision for "Silicone Bridge Joint Sealer."
- Joint openings shall be adjusted according to Article 503.10 (a) of the Standard Specifications when ambient temperature is other than 50° F.

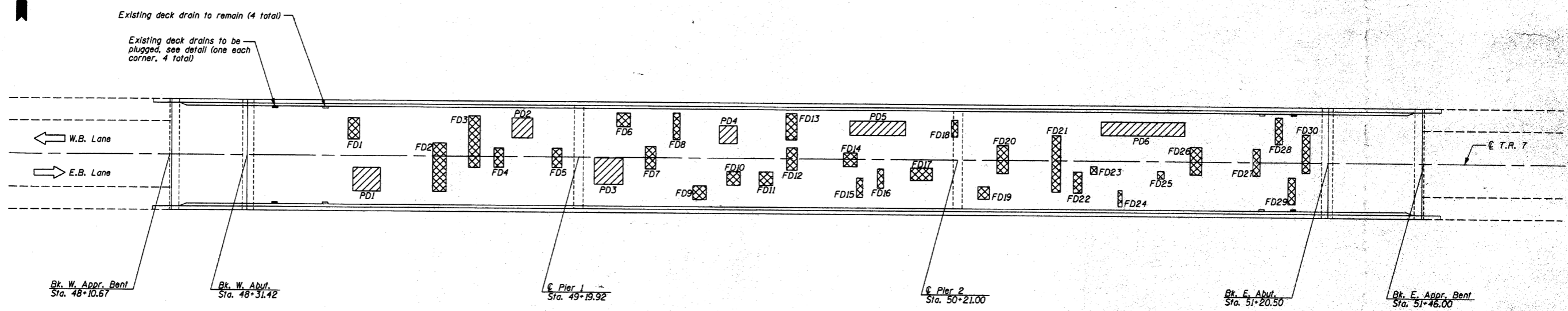
Revisions	
Name	Date

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EXPANSION JOINT DETAILS  
F.A.I. Route 55  
Section 68-5RS-1  
Montgomery County  
T.R. 7 Over 1-55  
S.N. 068-0035

Scale: None  
Date: 4/03  
Drawn By: NJV  
Checked By: SJK

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	68-5RS-1	MONTGOMERY	51	51
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Sheet No. 4 of 4 Sheets



**DECK PATCHING PLAN**

**LEGEND**

- Deck slab repair (Full depth) - Sq. Yd.
- Deck slab repair (Partial depth) - Sq. Yd.
- Existing floor drain to be plugged

Date of Survey: 3/26/03  
Survey By: Dave Capenbarger

- Note:**
1. Areas of deck slab repairs shown are estimated. The engineer shall record the actual deck slab repair areas in the "As Built" plans.
  2. Partial Depth Patches are shown for information only.

**BILL OF MATERIAL**

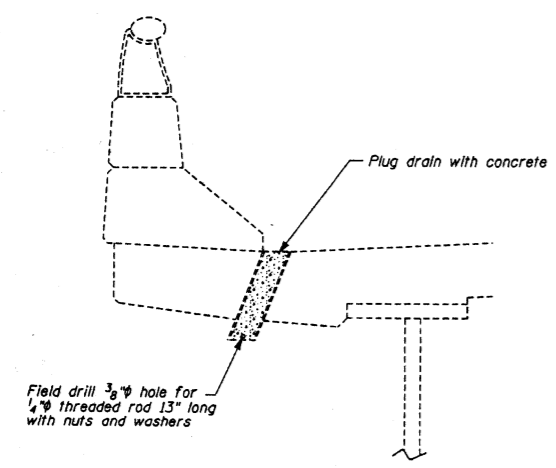
Item	Unit	Quantity
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	42.3
Plug Existing Deck Drains	Each	4

**Deck Slab Repair (Partial Depth)**

Patch	Length (Ft)	Width (Ft)	Area (Sq Yd)
PD1	6	6	4.0
PD2	5	5	2.8
PD3	5	5	2.8
PD4	4	4	1.8
PD5	8	3	2.7
PD6	12	3	4.0
<b>Total</b>			<b>18.1</b>

**Deck Slab Repair (Full Depth)**

Patch	Length (Ft)	Width (Ft)	Area Type I (Sq Yd)	Area Type II (Sq Yd)
FD1	6	3		2.0
FD2	12	4		5.3
FD3	14	3		4.7
FD4	4	3		1.3
FD5	4	3		1.3
FD6	3	3		1.0
FD7	4	3		1.3
FD8	6	2		1.3
FD9	3	3		1.0
FD10	3	3		1.0
FD11	3	3		1.0
FD12	4	3		1.3
FD13	5	3		1.7
FD14	3	3		1.0
FD15	4	2		0.9
FD16	4	2		0.9
FD17	4	3		1.3
FD18	3	2		0.7
FD19	3	3		1.0
FD20	5	3		1.7
FD21	12	2		2.7
FD22	5	2		1.1
FD23	2	2	0.4	
FD24	3	1	0.3	
FD25	2	2	0.4	
FD26	5	3		1.7
FD27	5	2		1.1
FD28	5	2		1.1
FD29	5	2		1.1
FD30	8	2		1.8
<b>Total</b>			<b>1.1</b>	<b>42.3</b>



Deck drains shall be eliminated by field drilling a 3/8" diameter hole through the bottom of the drain, installing a 1/4" diameter threaded rod, and filling the drain with concrete.

**PLUG EXISTING DECK DRAIN DETAIL**

Revisions	
Name	Date

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DECK PATCHING PLAN**  
F.A.I. Route 55  
Section 68-5RS-1  
Montgomery County  
T.R. 7 Over I-55  
S.N. 068-0035

Scale: None  
Date: 4/03  
Drawn By: ASB  
Checked By: SJK

35

95.0%  
9-13-97

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

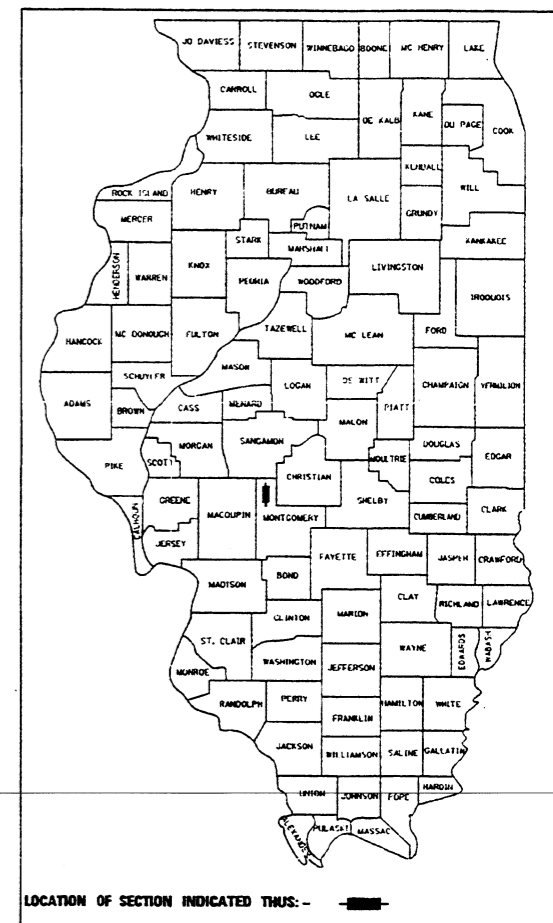
PLAN = 1:500  
PROFILE HORIZ.  
PROFILE VERT.  
CROSS SECTIONS

F.A.I. ROUTE 55  
SECTION 68-5RS  
PROJECT STPI-55-2(112)71  
MONTGOMERY COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	68-5RS	MONTGOMERY	71	1
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT*	

\* STPI-55-2(112)71

D-96-572-92



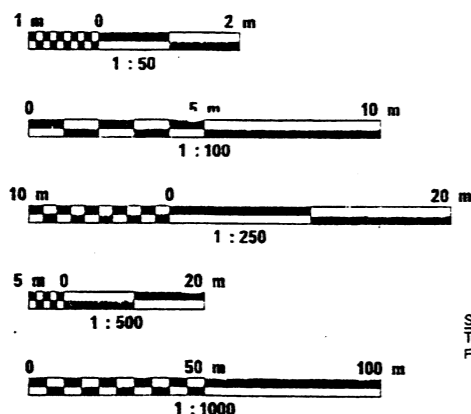
INDEX OF SHEETS

- 1 COVER SHEET
- 2 - 5 TYPICAL SECTIONS
- 6 - 10 SUMMARY OF QUANTITIES
- 11 GENERAL NOTES
- 12 - 20 SCHEDULE OF QUANTITIES
- 21 - 28 PLAN I-55
- 29 - 30 PLAN CH 17
- 31 - 38 RAMP INTERSECTION DETAILS
- 39 SHOULDER WIDENING DETAIL
- 40 - 41 REFLECTOR & TERMINAL MARKER PLACEMENT
- 42 EXISTING PAVEMENT REINFORCEMENT STANDARD
- 43 LONGITUDINAL JOINT REPAIR
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- 45 UNDERDRAIN OUTLET MARKER
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- 46 VARIABLE WIDTH GUTTER FLAG DETAIL
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- 49 TRAFFIC CONTROL AND PROTECTION RAMP
- 50 TRAFFIC CONTROL AND PROTECTION SPECIAL
- 51 - 58 BRIDGE REPAIRS - SN 068-0037
- 59 - 62 BRIDGE REPAIRS - SN 068-0036
- 63 - 64 BRIDGE REPAIRS - SN 068-0035
- 65 - 71 BRIDGE REPAIRS - SN 068-0105

STANDARDS

BLR-21-4	442101	606301	701006	701326
BLR-23	482006	609001	701011	701401
000001	482101	609006	701101	701406
280001	542401	630001	701106	701411
420001	601001	631031	701201	702001
420601	601101	667101	701301	780001
420701	606001	701001	701311	781001
442001				

METRIC RATIOS



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.

JULIE  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

CONTRACT NO. 92688

068-0035

C-96-532-95

FAI 55 SECTION 68-5RS  
END STA 123+661.101

FAI 55 SECTION 68-5RS  
BEGIN STA. 114+601.017

SECTION 68-5RS INCLUDES RESURFACING THE INTERCHANGE RAMP AT THE FARMERSVILLE INTERCHANGE

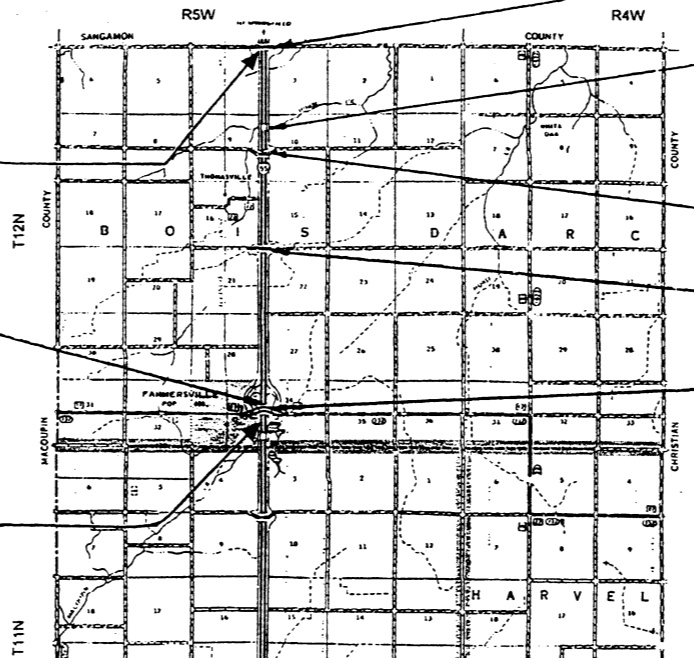
SECTION 68-5RS INCLUDES THE REHABILITATION OF STRUCTURE NO. 068-0105 CARRYING TR 1 OVER FAI 55

SECTION 68-5RS INCLUDES EXCAVATING THE UPSTREAM AND DOWNSTREAM CHANNEL AT STRUCTURE NO. 068-2102 CARRYING FAI 55 OVER HORSE CREEK

SECTION 68-5RS INCLUDES THE REHABILITATION OF STRUCTURE NO. 068-0035 CARRYING TR 7 OVER FAI 55

SECTION 68-5RS INCLUDES THE REHABILITATION OF STRUCTURE NO. 068-0036 CARRYING TR 17 OVER FAI 55

SECTION 68-5RS INCLUDES THE REHABILITATION OF STRUCTURE NO. 068-0037 CARRYING CH 17 OVER FAI 55



NET LENGTH OF PROJECT 9060.084 meters = 9.060 km

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Dec. 6, 1996  
*James P. Carter*  
DISTRICT ENGINEER

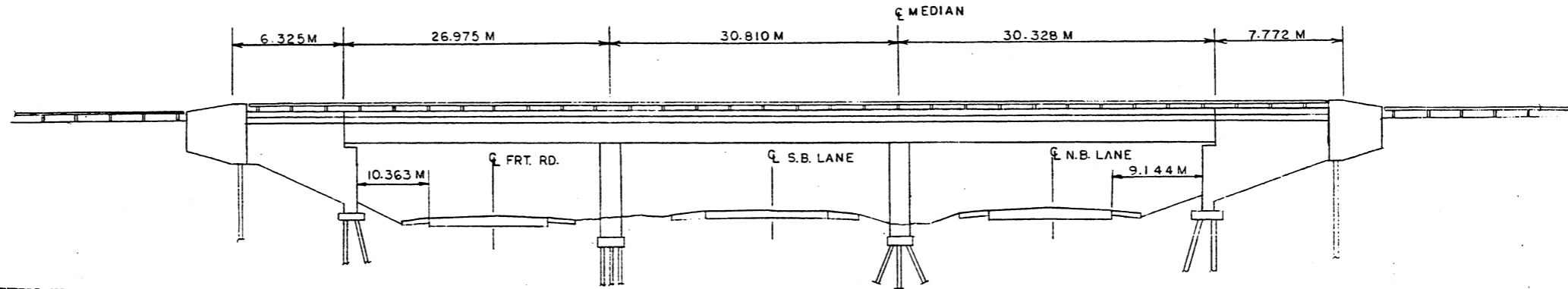
ENGINEER OF PROJECT DEVELOPMENT AND IMPLEMENTATION  
January 31, 1997  
*James P. Carter*

ENGINEER OF DESIGN AND ENVIRONMENT  
January 31, 1997  
*James P. Carter*  
DIRECTOR, DIVISION OF HIGHWAYS

6-224

PROJECT ENGINEER: ROGER L. DRISKELL (217) 782-4761  
SQUAD LEADER: NICK KETCHUM (217) 524-7940

SN 068-0035, BUILT IN 1970 AS FAI 55 SECTION 68-5HB-2, CONSISTS OF 3 SPAN CONTINUOUS STEEL WELDED PLATE BEAMS GIRDERS, VAULTED ABUTMENTS WITH PRE-STRESSED CONCRETE I-BEAMS, TWO 2-COLUMN PIERS, TOTAL LENGTH 102.210m BK. TO BK. OF APPROACH BENTS, WIDTH 9.144m FACE TO FACE.



**GENERAL NOTES**

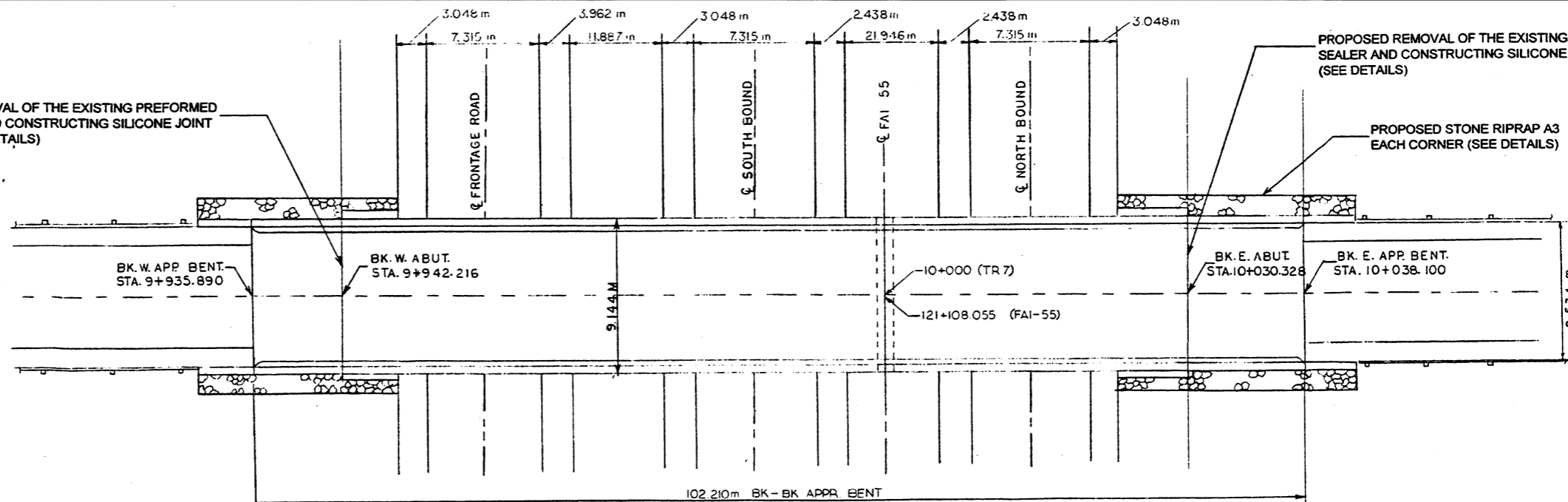
PLAN DIMENSIONS AND DETAILS OF THE EXISTING STRUCTURE ARE TAKEN FROM THE EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD PRIOR TO ORDERING MATERIALS.

SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

**TOTAL BILL OF MATERIAL**

PAY ITEM	UNITS	QUANTITY
SILICONE JOINT SEALER	METER	18.1
STONE RIPRAP A-3	SQ.M.	125
FILTER FABRIC FOR USE WITH RIPRAP	SQ.M.	125

PROPOSED REMOVAL OF THE EXISTING PREFORMED JOINT SEALER AND CONSTRUCTING SILICONE JOINT SEALER. (SEE DETAILS)

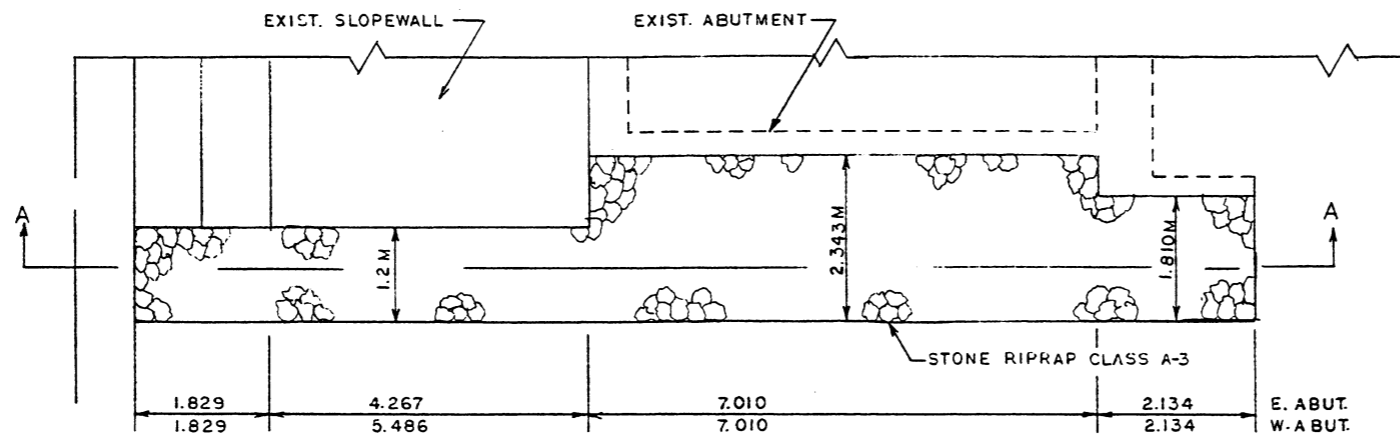


PROPOSED REMOVAL OF THE EXISTING PREFORMED JOINT SEALER AND CONSTRUCTING SILICONE JOINT SEALER. (SEE DETAILS)

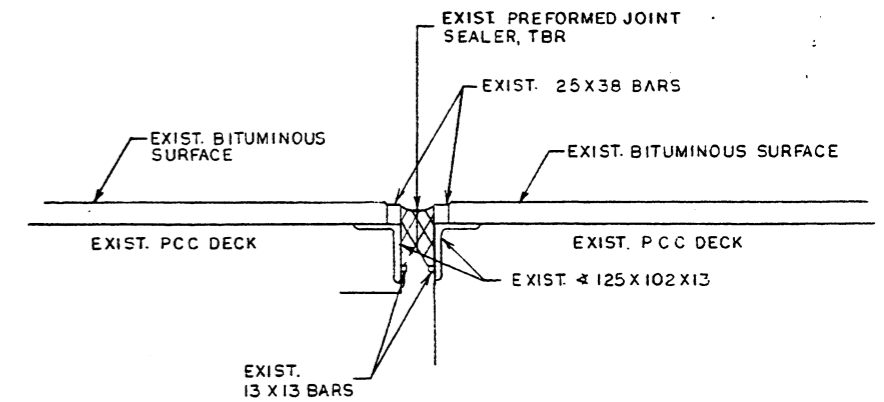
PROPOSED STONE RIPRAP A3 EACH CORNER (SEE DETAILS)



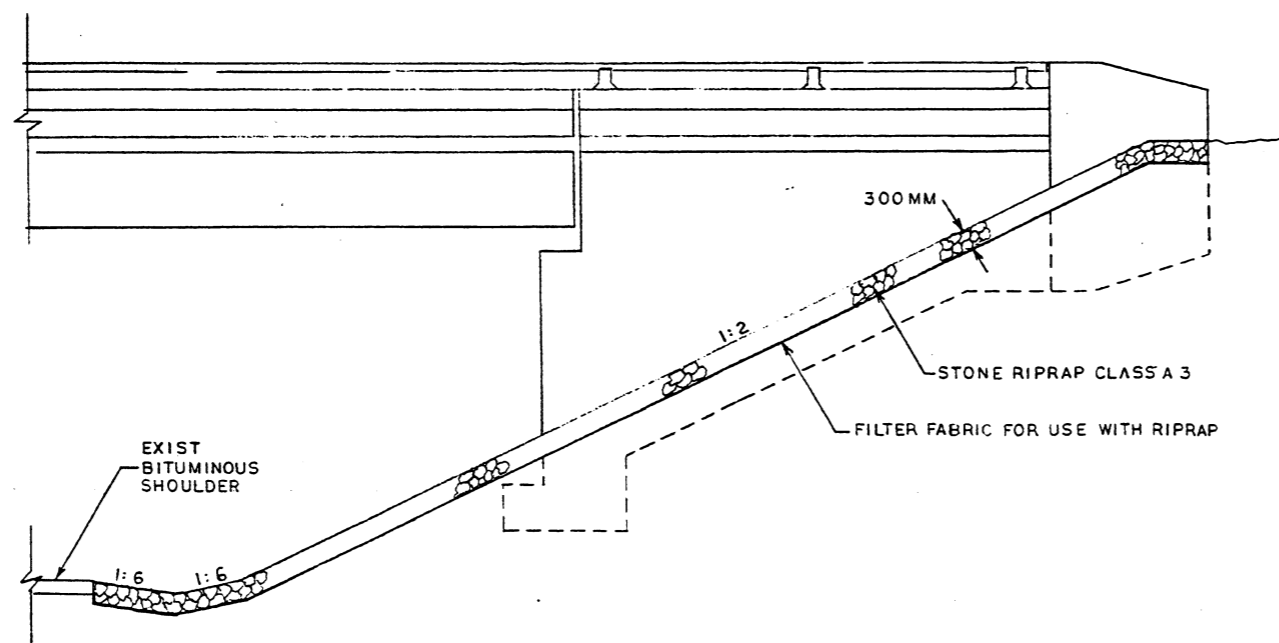
BRIDGE REHABILITATION  
DETAILS  
FAI-55  
SECTION 68-5RS  
MONTGOMERY COUNTY  
SN 068-0035



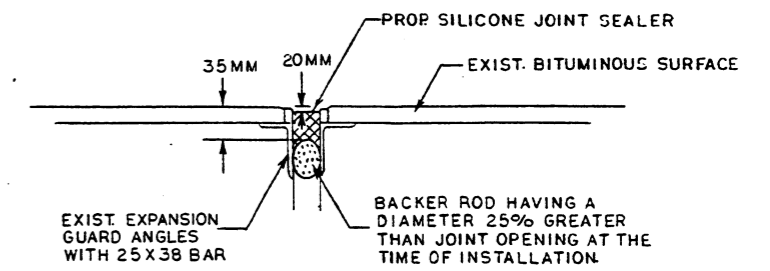
PLAN VIEW



DETAIL OF EXISTING EXPANSION JOINT



SECTION A-A



PROPOSED SILICONE JOINT SEAL

- 1 SILICONE JOINT SEAL SHALL BE INSTALLED FROM OUTSIDE OF DECK TO OUTSIDE OF DECK.
- 2 REMOVAL AND SATISFACTORY DISPOSAL OF THE EXISTING PREFORMED JOINT SEALER WILL NOT PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST FOR SILICONE JOINT SEALER.
- 3 ALL WORK SHALL BE DONE WITH THE ROAD OPEN TO TRAFFIC. TRAFFIC CONTROL AND PROTECTION FOR OPERATIONS REQUIRING A LANE CLOSURE SHALL BE AS SHOWN ON STANDARD 701201

**BRIDGE REHABILITATION DETAILS**  
**FAI 55**  
**SECTION 68-5RS**  
**MONTGOMERY COUNTY**  
**SN 068-0035**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
FEDERAL AID INTERSTATE HIGHWAY

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVERSHEET
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
4	BRIDGE ELEVATIONS
5-6	BRIDGE CONDITION DETAILS
7	DELAMINATION SCHEDULE
8	DETAILS
9-10	EXPANSION JOINT DETAILS
11	TRAFFIC CONTROL & PROTECTION PLAN

STANDARDS  
2298-7  
2299-10  
2300-3  
2344-1  
BLR 21-1

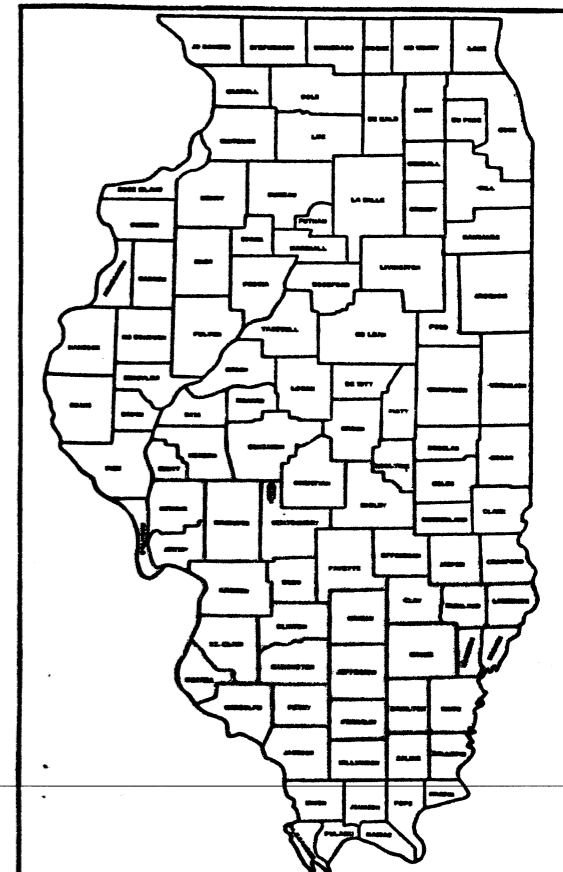
PLAN  
PROFILE HORIZ.  
PROFILE VERT.  
CROSS SECTIONS HORIZ.  
CROSS SECTIONS VERT.

FAI ROUTE 55  
SECTION DISTRICT 6 BRIDGE DECK  
WATERPROOFING 1985-1  
PROJECT ACIR-55-2(104) 73  
MONTGOMERY COUNTY  
C96-111-85

P96-004-85

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-55	*	MONT.	11	1

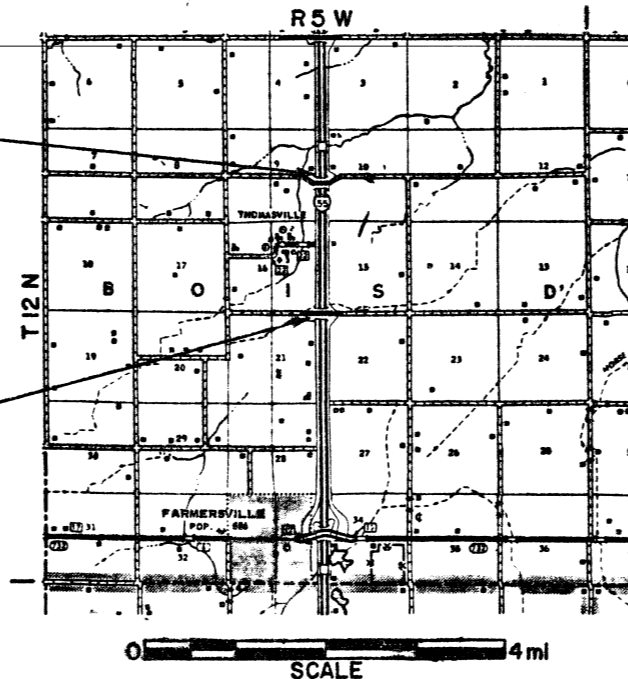
\* DISTRICT 6 BRIDGE DECK  
WATERPROOFING 1985-1



LOCATION OF SECTION INDICATED THIS: -

SN-068-0035 (TR-7)  
SECTION 68-5HB-2  
STA. 839+39.00 (FAI-55)

SN-068-0036 (TR-17)  
SECTION 68-5HB-1  
STA. 916+44.59 (FAI-55)



SECTION DISTRICT 6 BRIDGE DECK  
WATERPROOFING 1985-1 CONSISTS OF  
DECK REPAIR, APPLICATION OF A  
WATERPROOFING MEMBRANE SYSTEM,  
BITUMINOUS CONCRETE RESURFACING,  
EXPANSION JOINT INSTALLATION AND  
GUARDRAIL MODIFICATION ON TWO  
STRUCTURES (068-0035 & 068-0036)  
IN MONTGOMERY COUNTY.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED: January 13, 1986

EXAMINED: 1/13/86 DISTRICT ENGINEER

PASSED: 2/11/86 SUPERVISOR OF PLANS AND CONTRACTS

APPROVED: [Signature] DIVISION ENGINEER

SN-068-0035 SECTION 68-5HB-2 NET LENGTH=420.33'=.080mi  
SN-068-0036 SECTION 68-5HB-1 NET LENGTH=422.00'=.080mi

JOINT UTILITY LOCATING INFORMATION FOR  
EXCAVATIONS PHONE: 800-892-0123

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED \_\_\_\_\_

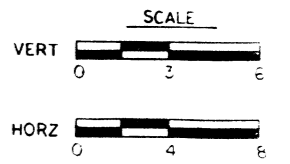
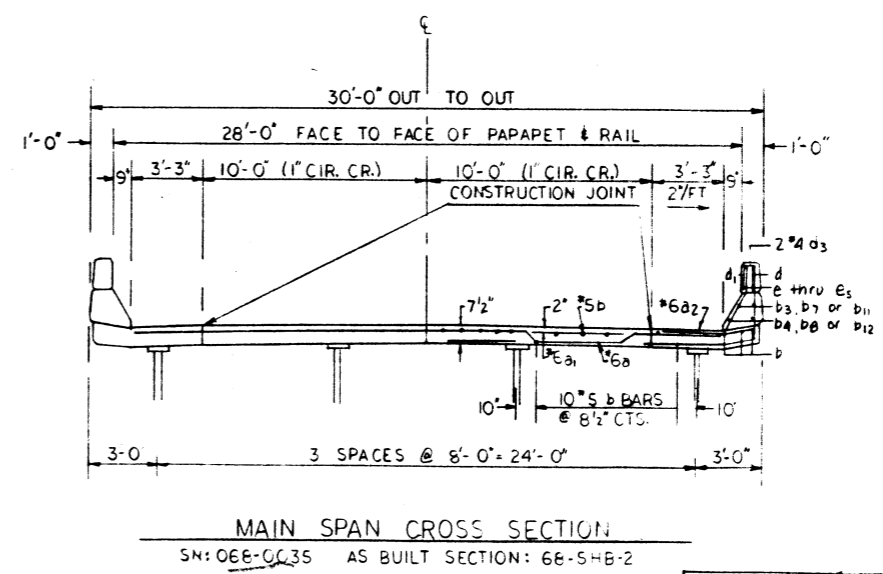
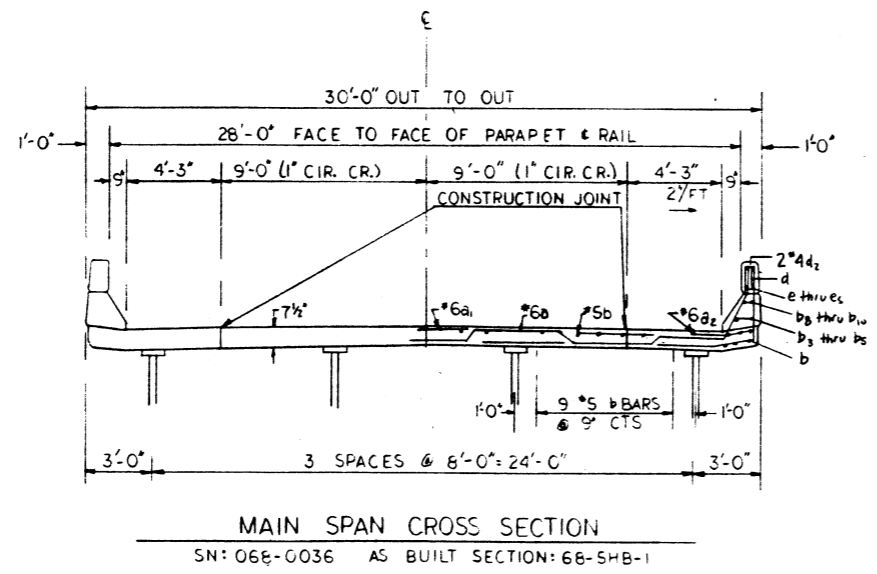
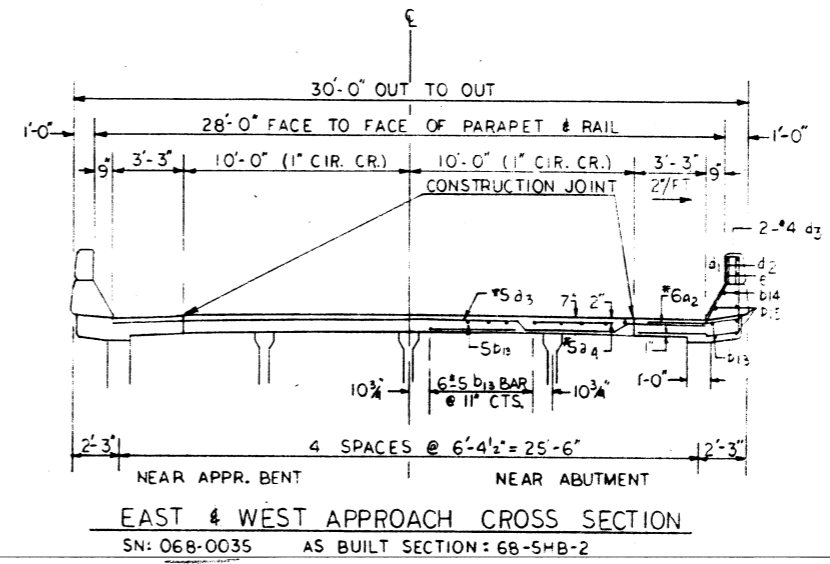
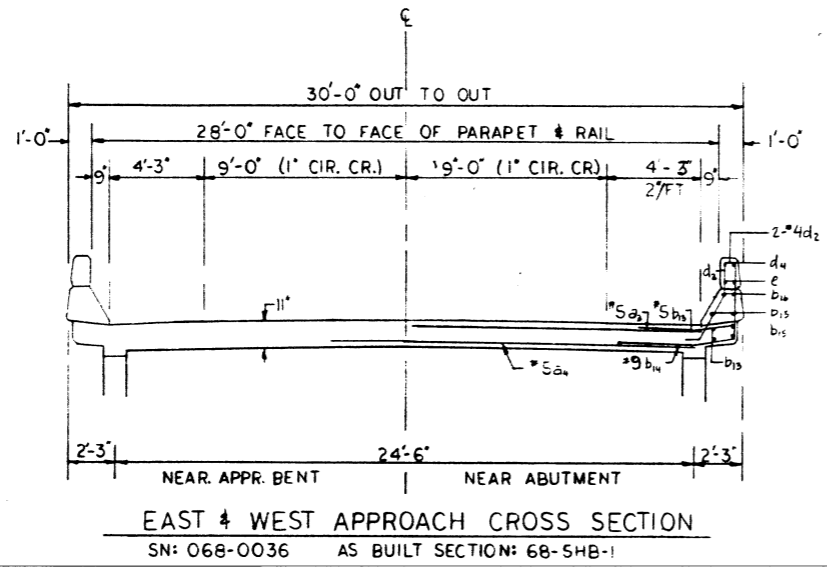
DIVISION ADMINISTRATOR DATE

068-0035  
CONTRACT NO. 40637

6-148

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-55	#	MONT.	11	2
F.A.W.A. REG. NO. 5 ILLINOIS FED. AID PROJECT				

DISTRICT 6 BRIDGE DECK WATERPROOFING 1985-1



EXAMINED	<i>[Signature]</i>	1985
DISTRICT TRAFFIC ENGINEER	<i>[Signature]</i>	
EXAMINED	December 23 1985	
DISTRICT DISTANCE ENGINEER	<i>[Signature]</i>	
EXAMINED	December 23 1985	
DISTRICT CIVIL ENGINEER	<i>[Signature]</i>	
EXAMINED	January 11 1986	
DISTRICT MATERIALS ENGINEER	<i>[Signature]</i>	
EXAMINED	<i>[Signature]</i>	
DISTRICT DESIGN ENGINEER	<i>[Signature]</i>	

TYPICAL SECTIONS  
FAI-55  
SECTION: DIST. 6 BRIDGE DECK WATERPROOFING 1985-1 MONT. CO.

# SUMMARY OF QUANTITIES

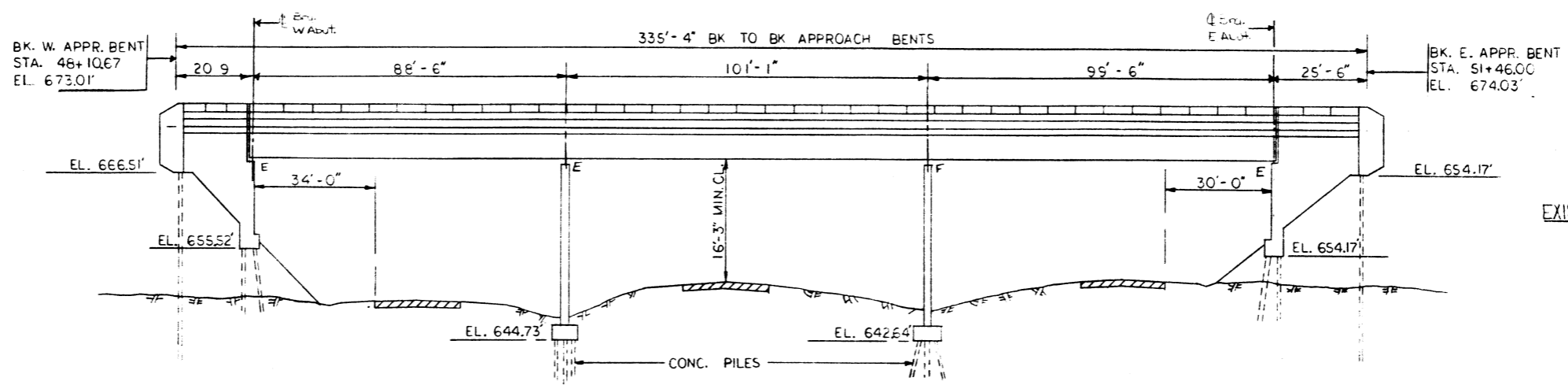
\*DISTRICT 6 BRIDGE DECK  
WATERPROOFING 1985-1

COUNTY	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAI-55	*	MONTGOMERY	11	3
TO STA.				
P&E SHEET NO. 1   ALLIANCE   P&E AND PROJECT				

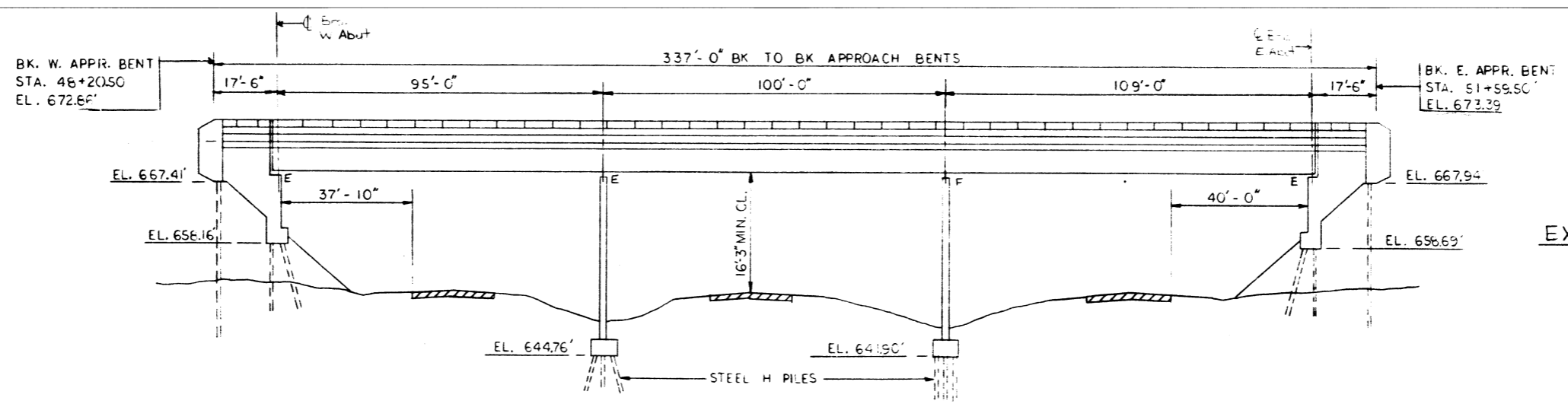
CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION SAFETY CODE 2D			
				SN: 068-0035		SN: 068-0036	
202001	EARTH EXCAVATION	CU. YD.	18	9		9	
215012	AGGREGATE SHOULDERS, TYPE B	TON	20	10		10	
406002	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.2	0.1		0.1	
406003	AGGREGATE (PRIME COAT)	TON	1.0	0.5		0.5	
406012	BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE C, CLASS I	TON	198	99		99	
501024	CONCRETE REMOVAL	CU. YD.	10.4	5.2		5.2	
504003	CLASS X CONCRETE	CU. YD.	10.4	5.2		5.2	
507004	FURNISHING & ERECTING STRUCTURAL STEEL	POUND	4856	2433		2433	
512001	REINFORCEMENT BARS	POUND	556	278		278	
617010	BITUMINOUS CONCRETE SURFACE REMOVAL	SQ. YD.	378	189		189	
633003	STEEL PLATE BEAM GUARD RAIL REMOVAL	LIN. FT.	200	100		100	
648018	TRAFFIC CONTROL & PROTECTION (SPECIAL)	LUMP SUM	1	0.5		0.5	
X50319	PREFORMED JOINT SEAL 3 1/2"	LIN. FT.	64	32		32	
X50323	PREFORMED JOINT SEAL 6"	LIN. FT.	64	32		32	
X62845	TRAFFIC BARRIER TERMINAL, TYPE 7	EACH	8	4		4	
Z10181	DECK SLAB REPAIR (PARTIAL)	SQ. YD.	166.9	118.7		48.2	
* Z10340	PRESSURE GROUTING ANGLES	LIN. FT.	80	40		40	
Z10530	WATERPROOFING MEMBRANE SYSTEM	SQ. YD.	1982	987		995	
650001	MOBILIZATION	L. SUM	1	0.5		0.5	
X50320	FLOOR DRAIN EXTENSIONS	EACH	24	8		16	
	<i>* New - Participating</i>						

ROUTE	SECTION	COUNTY	TOTAL	SHEET
FAI-55	*	MONT.	11	4

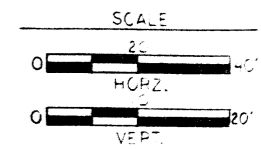
\*DISTRICT 6 BRIDGE DECK  
WATERPROOFING 1985-1



EXISTING ELEVATION  
SN: 068-0035  
AS BUILT SECTION: 6B-5HB-2



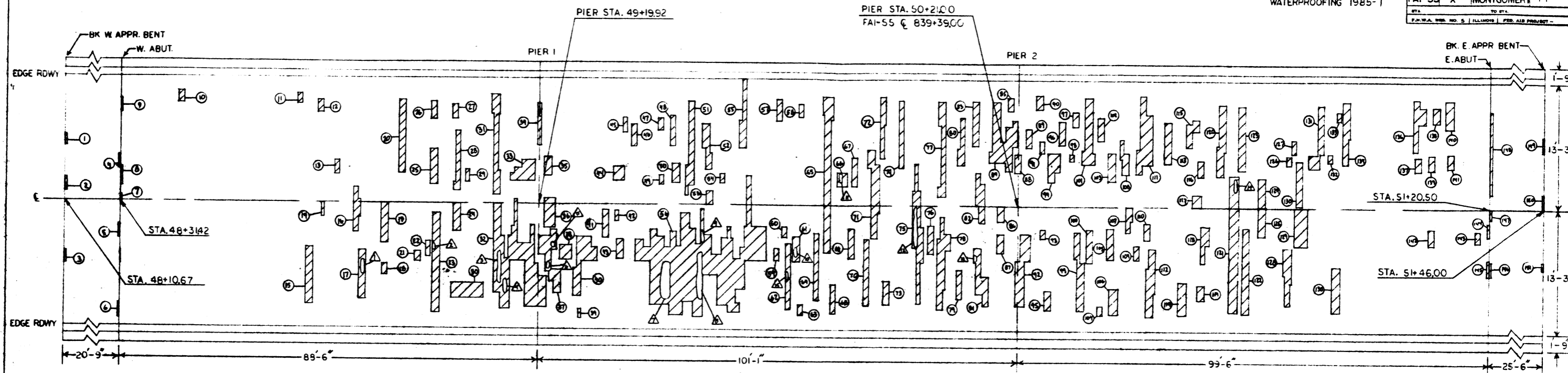
EXISTING ELEVATION  
SN: 068-0036  
AS BUILT SECTION: 6B-5HB-1



BRIDGE ELEVATION  
FAI-55  
SECTION: DIST. 6 BRIDGE  
DECK WATERPROOFING  
1985-1 MONT. CO.

\* DIST. 6 BRIDGE DECK  
WATERPROOFING 1985-1

ROUTE	SECTION	QUANTITY	TOTAL SHEETS	SH-NO.
FAI 55	* MONTGOMERY	11	11	E
STA.	TO STA.			
P.O. NO. 88-111 ILLINOIS FED. AID PROJECT				

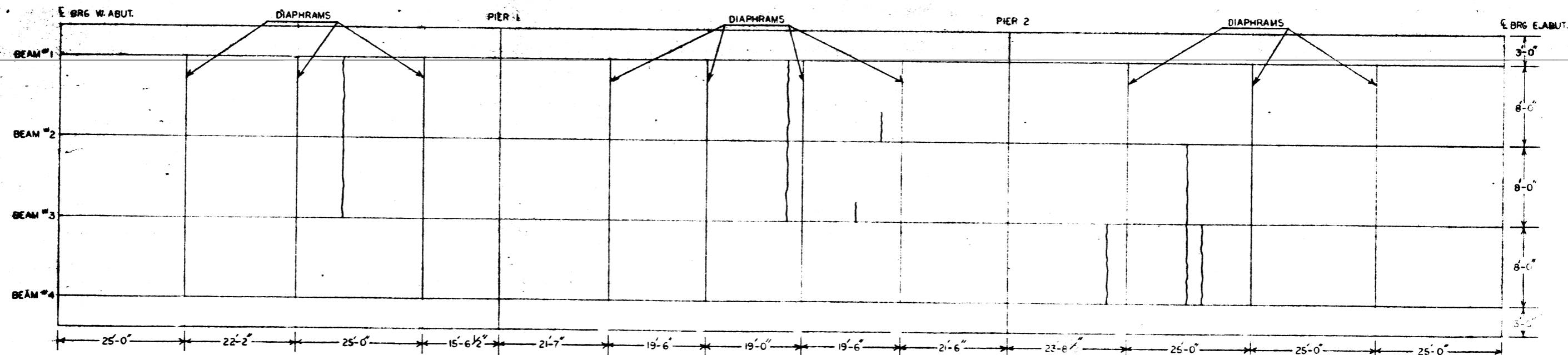


NOTES:  
1. 115.5 SQ.YDS/11.7% OF THE DECK IS DELAMINATED.  
2. THE DECK HAS 3.2 SQ.YDS OF SPALLED AREAS.

LEGEND  
○ DELAMINATION - □  
△ SPALL - ○  
FOR DELAMINATION AND SPALL SCHEDULE SEE SHEET NO. 7

SCALE  
HORIZ. 0" = 20'  
VERT. 0" = 10'

EXPANSION JOINT SCHEDULE  
EAST ABUT. CASE I A & II  
WEST ABUT. CASE III A & II  
SEE SHEET NO. 9 & 10



NOTES:  
1. THE CRACKS IN THE DECK SOFFIT ARE HAIRLINE CRACKS WITH LEACHING.  
2. NO SPALLS OR DELAMINATIONS WERE FOUND IN THE DECK SOFFIT.

DECK SOFFIT

SPBGR REMOVAL  
STA. 48+06.42 TO STA. 48+31.42 RT.&LT. 50 LF  
STA. 51+46.42 TO STA. 51+71.00 RT.&LT. 50 LF  
TOTAL 100 LF

TRAFFIC BARRIER TERMINAL TYPE 7  
STA. 48+06.42 TO STA. 48+46.23 RT.&LT. 2 EA.  
STA. 51+31.19 TO STA. 51+71.00 RT.&LT. 2 EA.

BRIDGE DECK  
CONDITION DETAIL  
F.A.I. ROUTE 55 SEC. 68-5HB-2  
MONTGOMERY COUNTY  
STA 839+39 (068-0035)

\* DISTRICT 6 BRIDGE DECK  
WATERPROOFING 1985-1

DELAMINATION SCHEDULE SN 068-0035

NO.	SIZE	S.F.	NO.	SIZE	S.F.	NO.	SIZE	S.F.
1	1.2x0.4	.48	52	2.1x4.9	7.21	103	3.0x1.6	4.80
2	1.4x0.4	.56	53	1.5x1.4	2.10	104	1.0x1.0	1.00
3	1.4x0.4	.56	54	1.0x1.0	1.00	105	3.3x1.4	4.62
4	1.4x0.5	.70	55	1.3x7.3	7.29	106	2.0x2.6	5.20
5	1.5x0.5	.75	56	24.0x15.0	162.54	107	2.7x1.6	3.72
6	1.6x0.5	.80	57	2.4x1.2	2.88	108	3.7x2.0	4.98
7	0.4x0.7	.28	58	1.0x1.4	1.40	109	1.2x1.4	1.68
8	0.4x2.1	.84	59	1.1x1.7	1.32	110	1.3x1.7	2.21
9	0.6x1.3	.78	60	1.1x1.1	1.21	111	8.1x3.3	20.05
10	1.3x1.3	1.69	61	2.6x1.5	3.90	112	7.2x2.2	13.14
11	1.1x1.1	1.21	62	6.8x1.0	6.80	113	4.2x1.4	5.88
12	1.4x1.2	1.68	63	1.1x1.2	1.32	114	1.6x3.4	5.44
13	1.5x1.0	1.50	64	0.9x7.0	6.30	115	2.6x3.0	4.94
14	1.4x0.5	.70	65	16.5x2.1	23.17	116	1.9x1.3	2.47
15	6.0x1.7	10.20	66	1.5x2.3	3.45	117	1.7x1.3	2.21
16	4.8x1.6	6.43	67	3.1x1.1	3.41	118	3.9x1.8	5.50
17	1.4x5.1	7.14	68	1.0x3.0	3.00	119	1.5x1.6	2.40
18	1.3x1.2	1.56	69	1.2x3.2	3.84	120	2.0x7.5	11.55
19	1.6x4.2	6.72	70	1.2x7.0	8.40	121	2.0x14.5	29.00
20	7.8x1.3	10.14	71	9.3x2.3	15.48	122	9.1x1.6	14.56
21	1.3x1.0	1.30	72	6.5x1.3	7.01	123	6.8x1.3	8.84
22	1.4x1.6	2.24	73	2.4x1.4	3.36	124	1.5x3.1	4.65
23	1.8x10.5	18.90	74	7.1x0.9	6.39	125	3.1x1.5	4.65
24	0.9x2.9	2.61	75	2.4x14.8	18.50	126	1.0x1.0	1.00
25	3.7x1.5	5.55	76	1.4x2.0	2.80	127	1.5x1.0	1.50
26	1.9x1.2	2.28	77	1.4x10.7	11.08	128	2.0x6.0	9.53
27	1.6x1.2	1.92	78	9.8x3.0	16.08	129	2.7x4.1	11.07
28	6.3x1.3	6.57	79	1.0x3.0	3.00	130	4.7x1.5	7.05
29	1.3x0.9	1.17	80	5.0x1.7	6.90	131	6.5x3.2	9.36
30	7.1x1.6	11.36	81	6.0x3.3	11.28	132	0.9x1.0	.90
31	10.7x1.7	14.25	82	5.3x3.2	7.97	133	1.0x0.9	.90
32	11.1x1.5	70.76	83	4.3x1.3	6.24	134	6.6x1.4	8.24
33	4.2x2.3	6.96	84	6.4x6.0	23.70	135	1.6x4.8	7.68
34	4.4x0.8	3.52	85	1.4x1.2	1.68	136	5.3x2.6	8.26
35	1.9x1.6	3.04	86	1.4x1.7	2.38	137	1.4x1.6	2.24
36	3.1x2.3	7.13	87	1.5x2.0	3.00	138	1.2x1.6	1.92
37	6.7x6.4	17.41	88	1.9x1.3	2.47	139	1.5x1.2	1.80
38	2.5x1.5	3.75	89	2.0x1.1	2.20	140	3.0x1.8	5.40
39	0.8x0.5	.40	90	1.5x1.5	2.25	141	1.7x1.5	2.55
40	5.1x6.3	15.04	91	1.0x1.2	1.20	142	1.2x1.8	2.16
41	1.2x2.9	3.48	92	3.2x7.6	15.20	143	1.1x1.2	1.32
42	0.7x1.1	.77	93	1.1x0.9	.99	144	0.5x1.5	.75
43	2.0x1.5	3.00	94	3.0x2.6	6.37	145	0.5x2.2	1.10
44	1.4x2.5	3.50	95	2.0x1.6	3.20	146	0.5x1.6	.80
45	1.5x1.1	1.65	96	2.5x1.3	3.25	147	0.5x1.2	.60
46	2.4x1.2	2.88	97	1.5x1.3	1.95	148	8.7x0.5	4.35
47	1.0x1.3	1.30	98	0.3x0.8	.64	149	0.4x1.7	.68
48	3.2x1.1	3.52	99	2.2x8.1	10.91	150	0.4x1.6	.64
49	1.0x1.0	1.00	100	1.4x3.5	4.90	151	0.4x0.8	.32
50	2.1x1.7	3.57	101	2.9x7.0	13.52		TOTAL	1041.18 s.f.
51	2.0x9.9	13.57	102	2.4x1.4	3.36		PAY AREA	115.5 s.y.

DELAMINATION SCHEDULE SN 068-0036

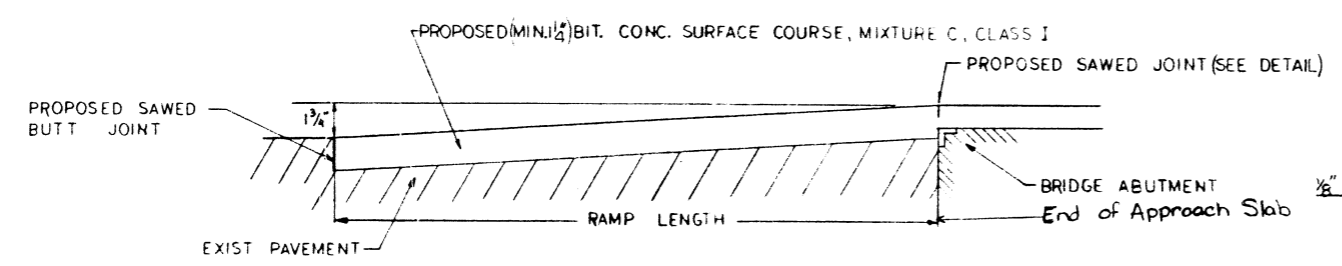
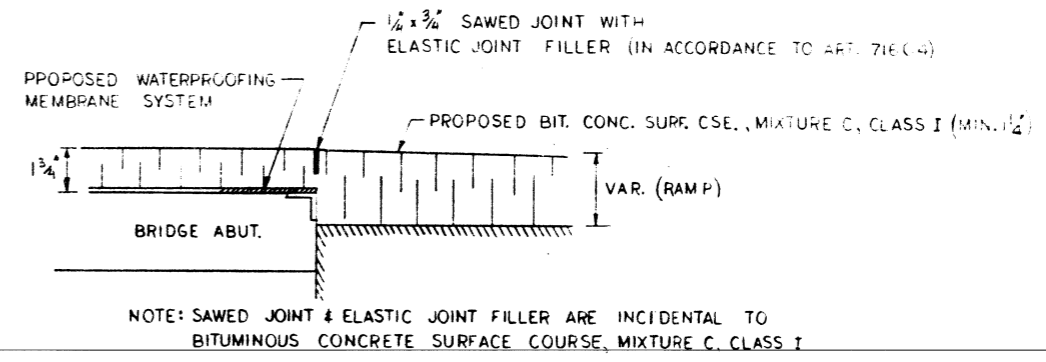
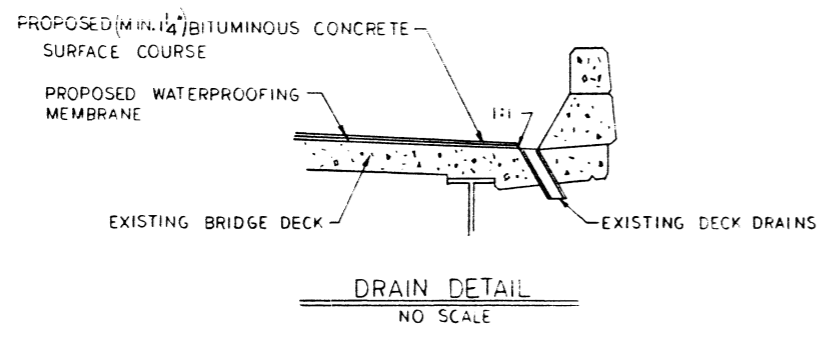
NO.	SIZE	S.F.	NO.	SIZE	S.F.	NO.	SIZE	S.F.
1	0.5x1.0	.50	33	6.9x1.0	6.90	65	1.2x1.3	1.56
2	0.4x0.7	.28	34	0.9x5.4	4.86	66	1.9x18.4	32.29
3	0.5x1.0	.50	35	8.5x1.1	8.07	67	1.1x4.6	5.06
4	0.4x2.4	.96	36	2.0x0.8	1.60	68	3.5x6.9	11.13
5	0.4x5.9	2.36	37	4.6x0.8	3.68	69	1.0x1.0	1.00
6	1.6x0.5	.80	38	6.3x1.1	7.48	70	7.8x0.9	7.02
7	1.2x0.5	.60	39	1.2x3.4	4.08	71	1.6x8.0	10.48
8	1.1x0.5	.55	40	1.3x5.9	7.67	72	1.0x1.0	1.00
9	2.0x1.5	3.00	41	1.0x4.3	4.30	73	0.8x3.8	3.04
10	7.1x0.7	4.97	42	1.5x0.6	.90	74	9.4x1.3	10.69
11	1.1x1.3	1.43	43	5.2x1.3	5.20	75	1.5x4.3	6.45
12	1.3x1.6	2.08	44	1.1x1.1	1.21	76	2.0x1.3	2.60
13	1.0x3.5	3.50	45	1.5x1.4	2.10	77	1.1x2.8	3.08
14	3.0x6.7	13.93	46	1.5x2.9	4.35	78	1.1x1.2	1.32
15	5.7x0.9	5.13	47	1.5x0.8	1.20	79	1.0x3.6	8.90
16	0.9x2.0	1.80	48	13.9x1.5	20.85	80	3.3x1.4	4.62
17	8.7x0.8	6.96	49	0.9x1.4	1.26	81	10.7x8.5	56.07
18	4.0x0.7	2.80	50	1.3x0.9	1.17	82	3.2x1.5	4.80
19	0.7x0.6	.42	51	2.4x1.4	3.36	83	2.1x2.7	5.67
20	1.4x1.3	1.82	52	4.2x0.8	3.36	84	1.4x1.8	2.52
21	1.2x0.9	1.08	53	0.8x1.5	1.20	85	1.1x1.0	1.10
22	1.6x3.7	4.09	54	1.3x5.5	7.15	86	3.9x1.0	3.90
23	4.5x1.0	4.50	55	1.9x1.4	2.66	87	7.2x1.5	6.65
24	1.5x7.7	11.55	56	1.1x2.5	2.75	88	1.3x3.7	4.81
25	1.1x10.2	11.22	57	4.7x1.5	6.29	89	0.5x0.8	.40
26	1.2x9.5	11.40	58	1.4x1.4	1.96	90	0.5x1.6	.80
27	5.6x1.1	6.16	59	2.2x1.7	3.74	91	0.5x1.5	.75
28	4.1x0.9	3.17	60	1.0x1.1	1.10	92	0.5x3.7	1.85
29	6.7x1.3	7.12	61	1.6x1.1	1.76	93	0.4x1.8	.72
30	7.5x1.3	7.97	62	1.0x0.9	.90	94	0.4x1.2	.48
31	1.3x0.8	1.04	63	1.3x2.7	3.51	95	0.5x3.0	1.50
32	2.0x0.9	1.80	64	1.5x1.1	1.65		TOTAL	433.34 s.f.
							PAY AREA	48.2 s.y.

DELAMINATION SCHEDULE  
FAI 55  
SECTION D ST. 8 BRIDGE  
DECK WATERPROOFING  
1985-1 MONT. CO.

ROUTE	SECTION	COUNTY	FILE NO.	FILE
FAI 55	*	MONT.	11	5
P.H.W.A. REG. NO. 5, ILLINOIS   FED. AID PROJECT				

\*DISTRICT 6 BRIDGE DECK WATERPROOFING 1985-1

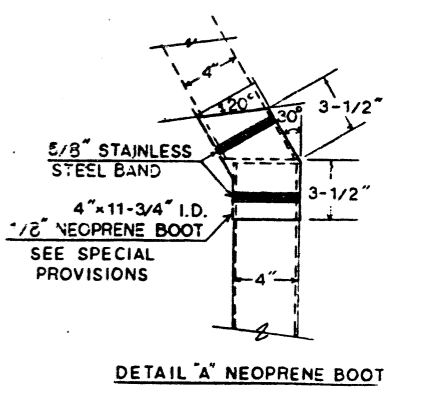
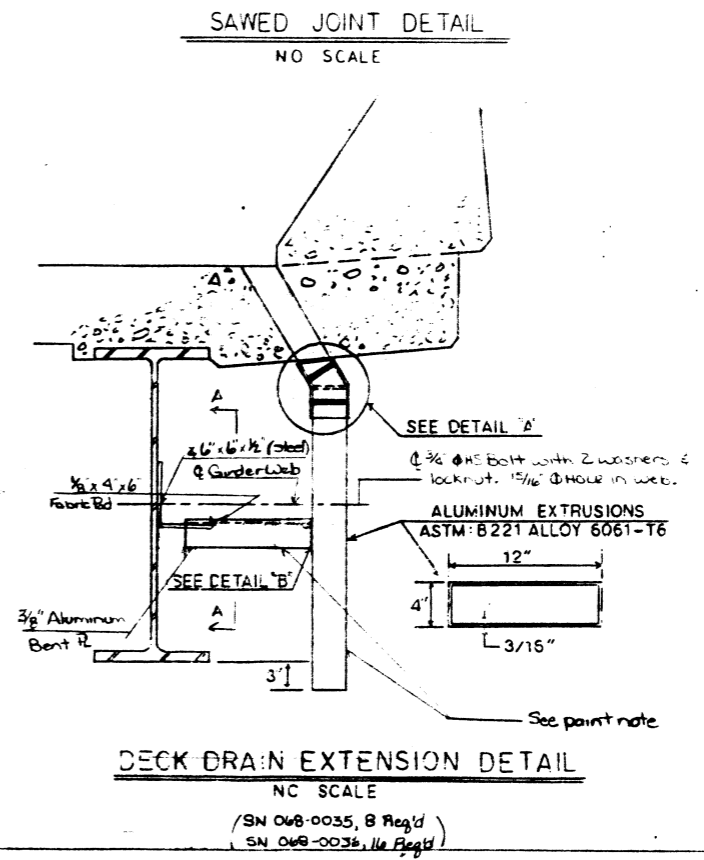
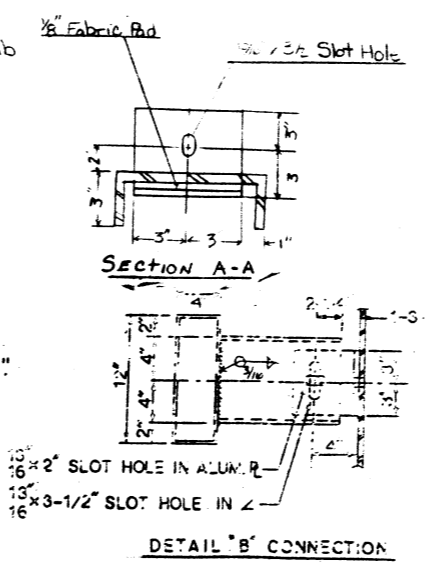
**PAINT NOTE:** The exterior surfaces of the aluminum drains shall be cleaned and given a washcoat pretreatment in accordance with the Steel Painting Council's Spec. SSPC-SPI and SSPC-Point 27 prior to painting. The basic lead silico chromate paint system shall be used for the shop and field painting of the deck drains and bracket assemblies. All costs associated with painting shall be incidental to the cost of "FLOOR DRAIN EXTENSIONS".



BRIDGE NO.	SECTION	RAMP LENGTH
068-0035	68-SHB-2	35' EAST ABUT. 50' WEST ABUT.
068-0036	68-SHB-1	50' EAST ABUT. 35' WEST ABUT.

RAMP LENGTH  
NO SCALE

NOTE: DECK drain extensions shall be paid for at the contract unit price for "FLOOR DRAIN EXTENSIONS, EACH."



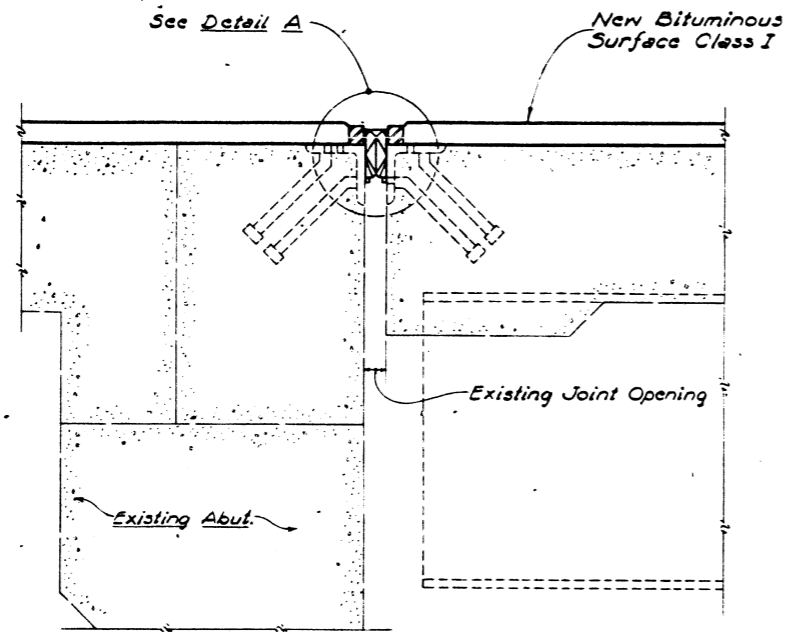
DETAIL SHEET  
FAI-55  
SECTION: DIST. 6 BRIDGE  
DECK WATERPROOFING  
1985-1 MONT. CO.

(SN 068-0035, 8 Reg'd)  
(SN 068-0036, 16 Reg'd)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

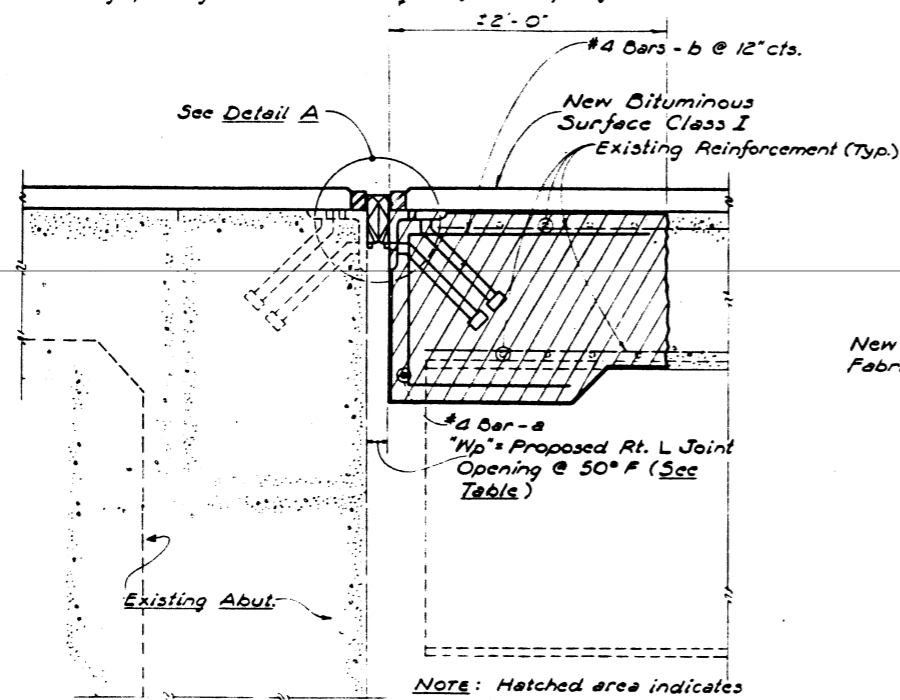
\*DISTRICT 6 BRIDGE DECK  
WATERPROOFING 1985-1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. SHEETS
SS	*	MONT	11	9	
JOB ROAD DIST. NO. 7		DESIGNED	FOR AID PROJECT		



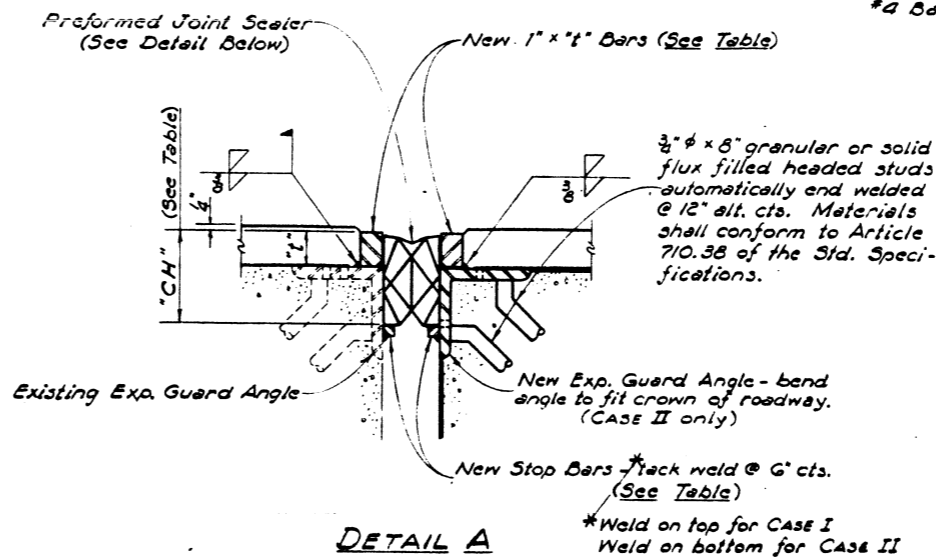
**SEC. AT JOINT (CASE Ia)**

Where the existing opening and L's are adequate for the specified P.J.S.

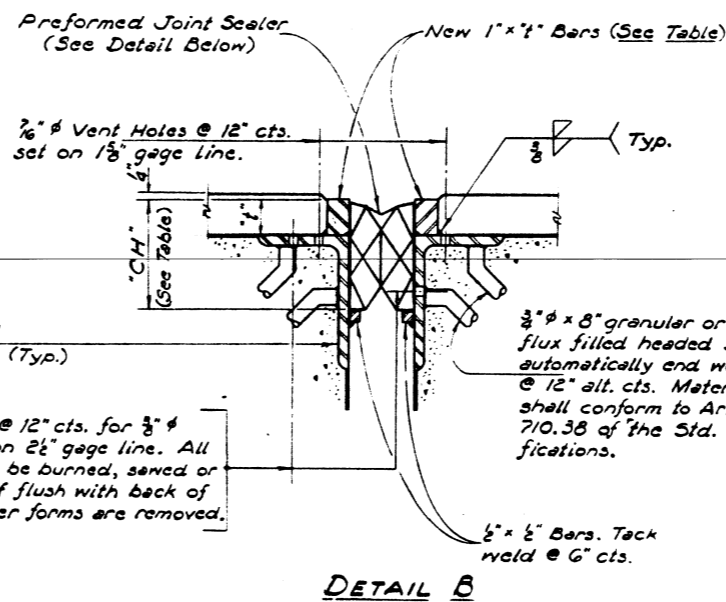


**SEC. AT JOINT (CASE IIa)**

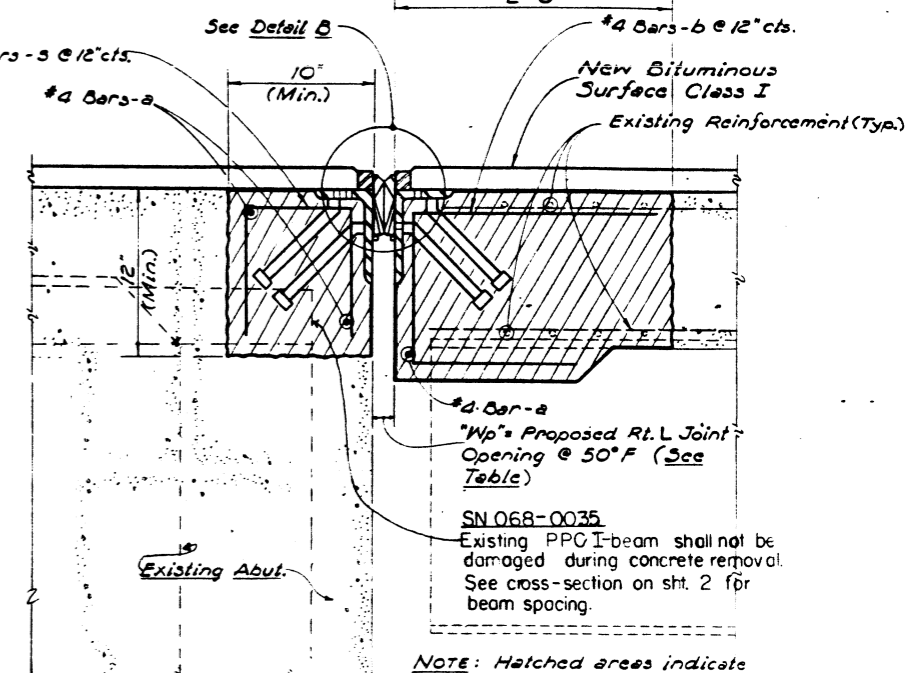
Where a wider opening must be constructed for the required P.J.S.



**DETAIL A**



**DETAIL B**



**SEC. AT JOINT (CASE IIIa)**

Where new 6" x 4" Expansion Guard L's are required for the specified P.J.S.

**PROPOSED JOINT SEAL DIMENSIONS**

Structure Number	Location	Size of P.J.S. "W"	Plan Detail (Case)	Compr. Height "CH"	1" Bar Height "t"	Stop Bar Size	Prop. Open. "Wp"
068-0035	EAST ABUT.	3 1/2"	II A & IV	4 1/8"	1 1/2"	1/2" x 1/2"	2 1/4"
068-0035	WEST ABUT.	5"	III A & IV	6 1/8"	1 1/2"	1/2" x 1/2"	3/4"
068-0036	EAST ABUT.	3 1/2"	II A & IV	4 1/8"	1 1/2"	1/2" x 1/2"	2 1/4"
068-0036	WEST ABUT.	5"	III A & IV	6 1/8"	1 1/2"	1/2" x 1/2"	3/4"

New expansion joint angles and attached bars shall be shop painted with one coat of dull orange primer in accordance with Article 71228 of the Standard Specifications.

New L - 6" x 4" x 1/2"  
Fabricate to crown (Typ.)

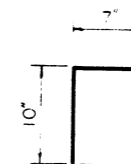
3/8" Holes @ 12" cts. for 3/8" bolts set on 2 1/2" gage line. All bolts shall be burned, sanded or clipped off flush with back of angles after forms are removed.

1/2" x 1/2" Bars. Tack weld @ 6" cts.

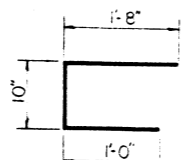
"W" = Nominal size of P.J.S.



**PREFORMED JOINT SEALER**



**BAR-S**



**BAR-b**

DESIGNED	19
CHECKED	
DRAWN	r. b. carbonell
CHECKED	

EXAMINED	ENGINEER OF STRUCTURAL SERVICES
PASSED	
APPROVED	ENGINEER OF BRIDGES AND STRUCTURES
	DIRECTOR OF HIGHWAYS

SS-10-1Aa 2-24-84

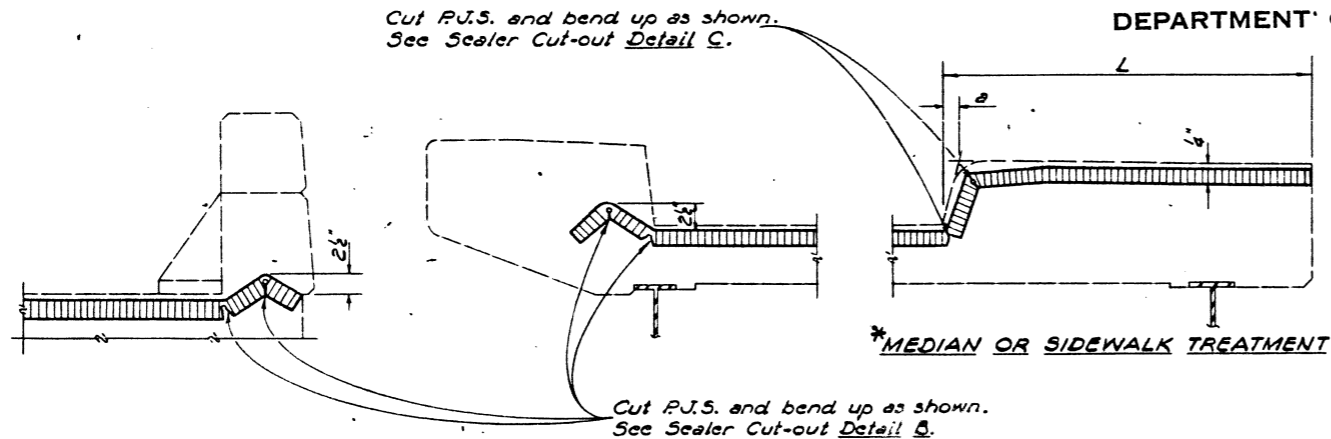
REV.



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

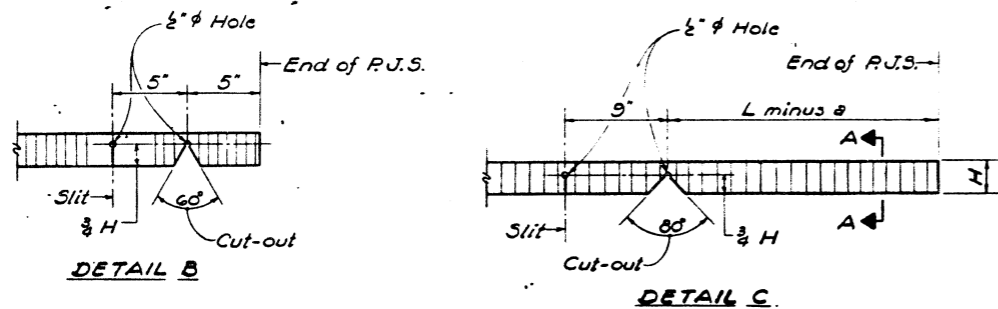
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
55	*	MONT.	11	10	
PER. ROAD DIST. NO. 7	BLVD/HR	PER. AID PROJECT			

\*DISTRICT 6 BRIDGE DECK WATERPROOFING  
1985-1



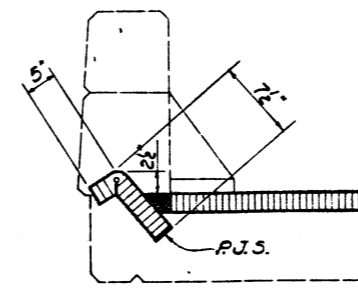
\*CURB SEALER TREATMENTS

\*Use when the skew angle is  $\leq 15^\circ$



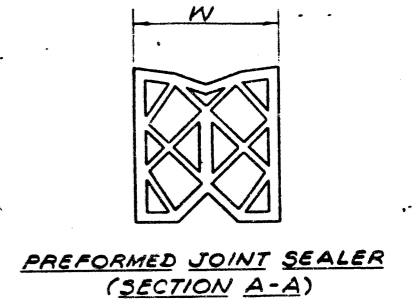
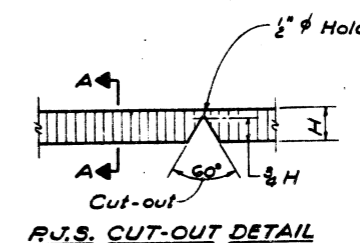
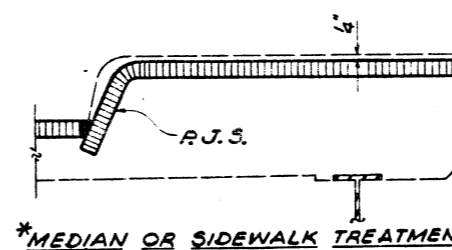
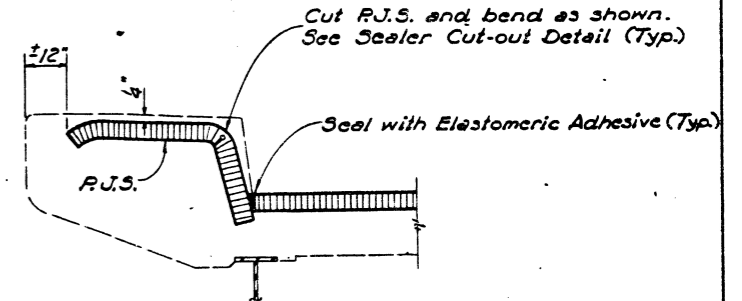
P.J.S. CUT-OUT DETAILS

(CASE IV)



\*CURB SEALER TREATMENTS

\*Use when the skew angle is  $> 15^\circ$



(CASE V)

**NOTE:**  
Remove concrete in curb as necessary to provide opening for P.J.S. as directed by the Engineer.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	8	#4	26.5'	—
b	10E	#4	3.5'	┌
s	10E	#4	2.25'	┐
Concrete Removal				Cu. Yds. 10.4
Class X Concrete				Cu. Yds. 10.4
Reinforcement Bars				Lbs. 556
Structural Steel				Lbs. 4866
Preformed Joint Seal (3/4")				Lin. Ft. 64
Preformed Joint Seal (5")				Lin. Ft. 64

JOINT SEALING  
FOR EXISTING BRIDGE DECKS  
(Median, Curb and Sidewalk Details)

DESIGNED	EXAMINED	19
CHECKED	PASSED	ENGINEER OF STRUCTURAL SERVICES
DRAWN <i>r.b. carbonell</i>	APPROVED	ENGINEER OF BRIDGES AND STRUCTURES
CHECKED		DIRECTOR OF HIGHWAYS

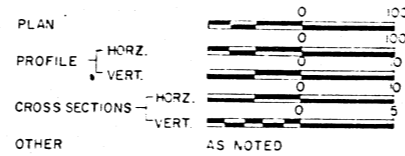
INDEX OF SHEETS

- 1 TITLE SHEET
- 2 - 4 TYPICAL SECTIONS
- 5 SUMMARY & SCHEDULE OF QUANTITIES
- 6 PLAN & PROFILE SHEET - T.R. 7
- 7 PLAN & PROFILE SHEET - F.A.I. 55
- 8 - 26 BRIDGE PLANS
- 27 - 36 CROSS SECTIONS - T.R. 7 AND CONNECTOR
- 37 - 39 CROSS SECTIONS F.A.I. 55
- STANDARDS 1686-3 AND 1741-2
- STANDARDS 2113-1 AND 2153-7
- STANDARD 2171
- STANDARD 2230-5
- STANDARD 2231-3
- STANDARD 2228-1
- STANDARD 2262
- STANDARD 2298-2
- STANDARD 2299-1
- STANDARD 2300
- STANDARD 2302-1
- STANDARD 2303-2
- STANDARD 2314-1
- STANDARD 2315-2
- STANDARD 2335-3

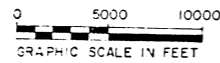
**STATE OF ILLINOIS**  
**DEPARTMENT OF PUBLIC WORKS AND BUILDINGS**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**FEDERAL AID INTERSTATE HIGHWAY**  
**ROUTE 55**

PROJECT I-55-2(35)75  
 SECTION 68-5HB-2

SCALES

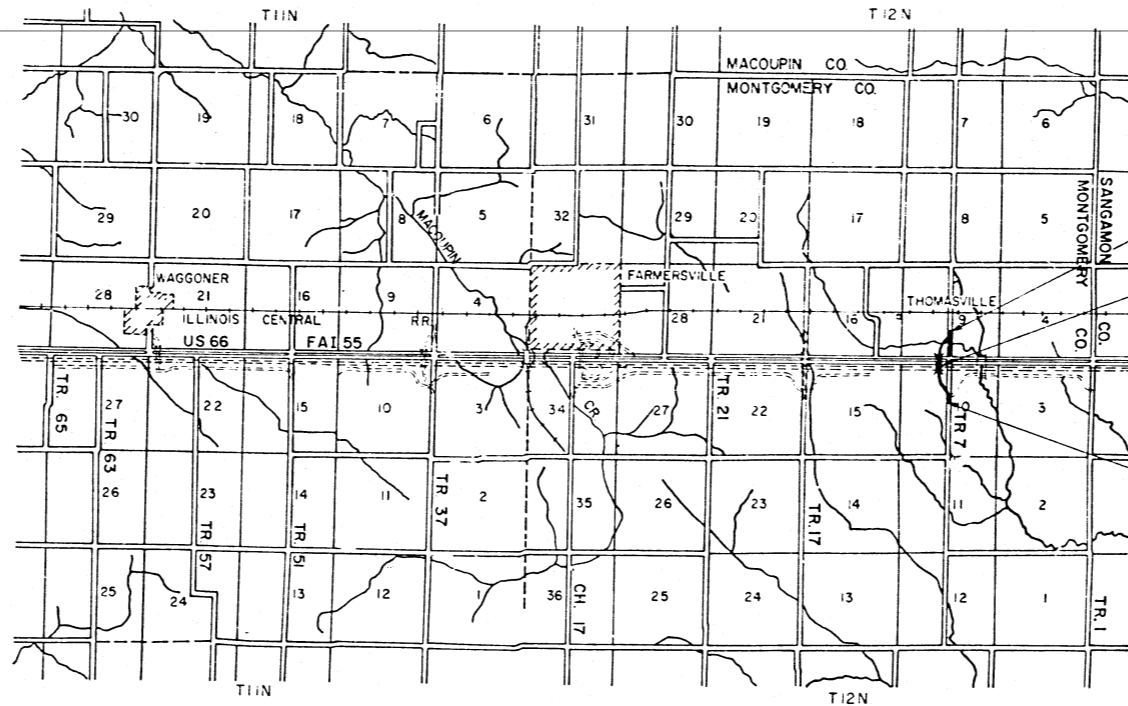
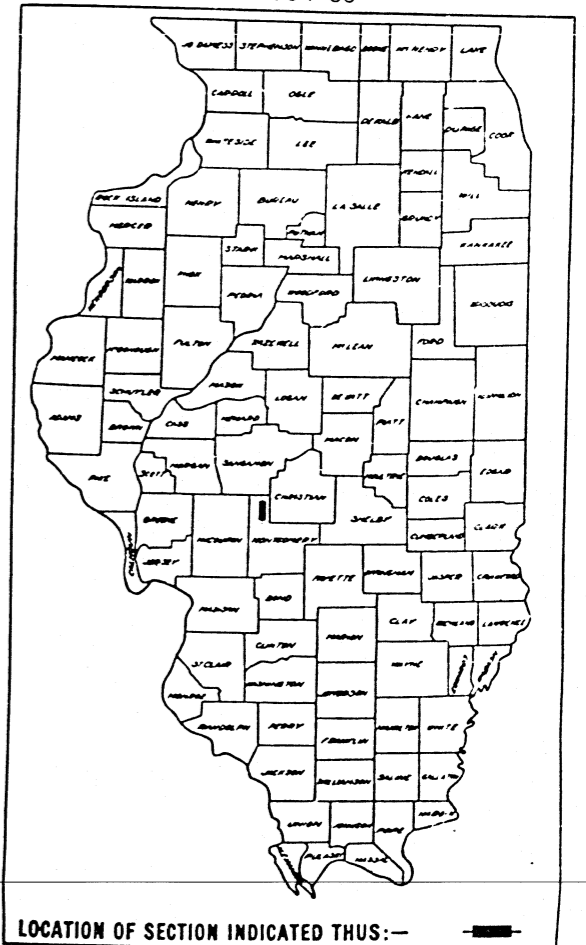


MONTGOMERY COUNTY  
 ROADWAY CONSTRUCTION  
 C-96-039-70



FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-55	68-5HB-2	MONT.	39	1
R.F.R. REG. NO.	ILLINOIS	PROJECT	I-55-2(35)75	

P-98-004-66



SECTION 68-5HB-2  
 BEGINS STA. 35+35

SECTION 68-5HB-2 INCLUDES THE CONSTRUCTION OF A STEEL PLATE GIRDER BRIDGE CONSISTING OF 3 SPANS @ 88'-6", 101'-1", 99'-6", WITH VAULTED APPROACH ABUTMENTS WITH PRE-CAST, PRE-STRESSED CONCRETE BEAMS WITH SPANS OF 20'-3", 25'-6" AND LOCATED AT STA. 839+39.00 T.R. 7 TOTAL BRIDGE OMISSION. IS 334.33 FT.

SECTION 68-5HB-2  
 ENDS STA. 63+85

**DESIGN DESIGNATION**

TR 7  
 235(79)-F-0.00624(B-15)  
 MAXIMUM GRADE = +5.00%  
 LENGTH OF MAXIMUM GRADE = 350 FT.  
 MINIMUM HORIZONTAL RADIUS = 763.94  
 MINIMUM STOPPING SIGHT DISTANCE = 450 FT.

FAI 55  
 336I(90)-A-1 TRUNK-15.56 (C.R.C.-20)  
 MAXIMUM GRADE ADJACENT TO STRUCTURE = -0.82%  
 LENGTH OF MAXIMUM GRADE = 1175 FT.  
 MINIMUM HORIZONTAL RADIUS = INFINITE LENGTH  
 MINIMUM STOPPING SIGHT DISTANCE = 850 FT.

NET LENGTH OF SECTION 68-5HB-2 = 2850.00 FT. = 0.540 MILES  
 NET LENGTH OF PROJECT I-55-2(35)75 = 0 FT. = 0 MILES  
 NET LENGTH OF F.A.I. 55 = 0 FT. = 0 MILES

ROADWAY PLANS PREPARED BY  
 WESTENHUFF AND NOVICK, INC.  
 CONSULTING ENGINEERS  
 CHICAGO, ILLINOIS

SUBMITTED *Edward S. Newman*  
 ILLINOIS PE # 19417

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

SUBMITTED: 6-15-70  
 EXAMINED: 6-25-70  
 PASSED: 6-25-70  
 APPROVED: 6-25-70  
 APPROVED: 6-25-70

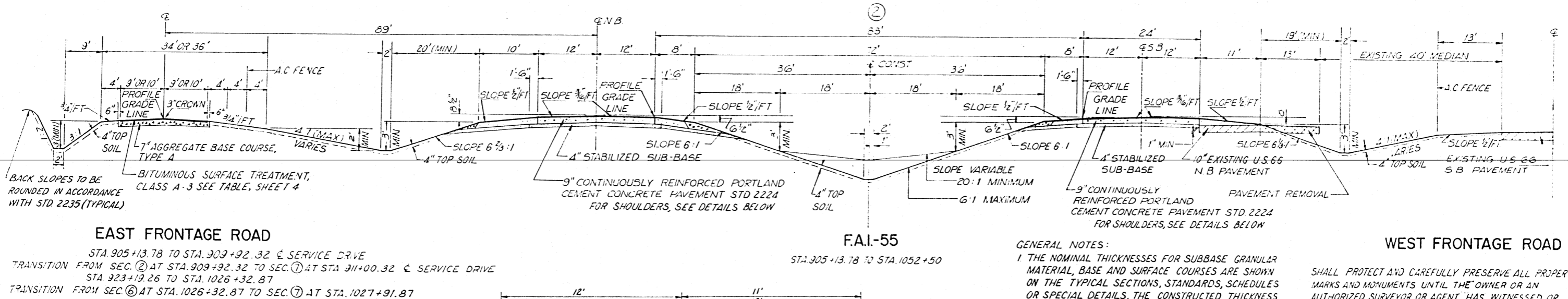
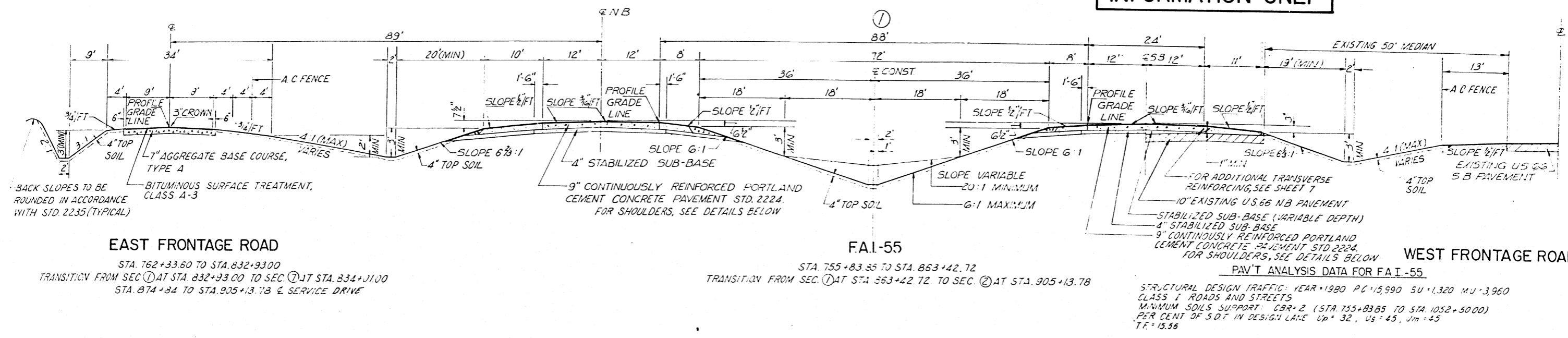
DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_  
 DIVISION ENGINEER DATE

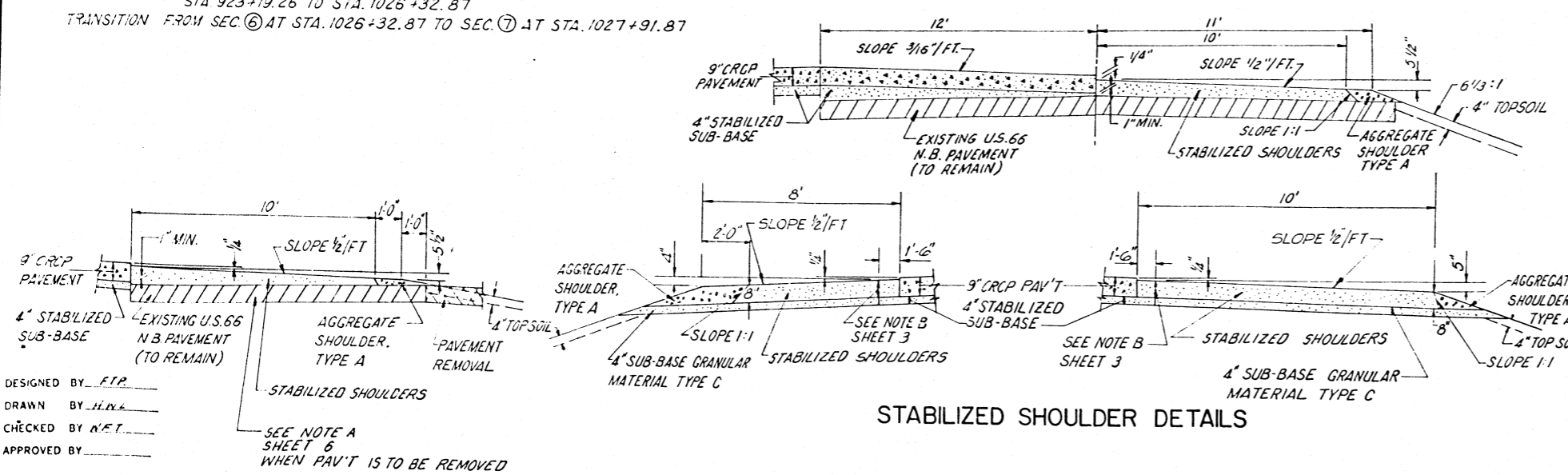
6-68  
 839+39

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FAI 55	68-SHB-2	MONT	39	2
FED ROAD DIST NO 4		ILLINOIS PROJ		

THIS SHEET FOR INFORMATION ONLY



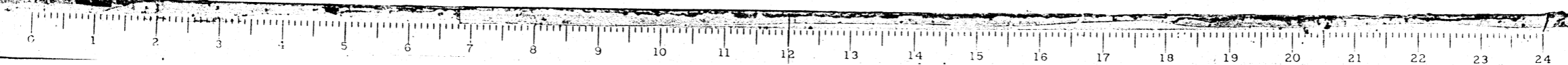
- GENERAL NOTES:**
1. THE NOMINAL THICKNESSES FOR SUBBASE GRANULAR MATERIAL, BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
  2. THE THICKNESS OF BITUMINOUS MIXTURE 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 EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
  3. IN AREAS WHERE THE NEW PAVEMENT IS TOTALLY OFFSET FROM THE PRESENT NORTHBOUND LANE, THE EDGE OF THE EXISTING PAVEMENT IS TO BE USED AS A FORM LINE REGARDLESS OF THE NEW PAVEMENT'S ALIGNMENT.
  4. CONCRETE FOUNDATIONS, CONCRETE SLABS, EXISTING CULVERTS, HEADWALLS TO BE REMOVED, ETC. SHALL BE CONSIDERED AS INCIDENTAL TO EARTH EXCAVATION IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.
  5. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THIS LOCATION.
  6. THE CROWN SHALL BE REMOVED FROM ALL PAVEMENTS BUILT WITH SUPERELEVATION. THE CROWN SHALL BE REMOVED OR INCORPORATED IN THE LENGTH OF SUPERELEVATION ATTAINMENT.
  7. SEE STD. NO 2224 & 2225 FOR PAVEMENT & REINFORCEMENT DETAILS.



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

TYPICAL SECTIONS

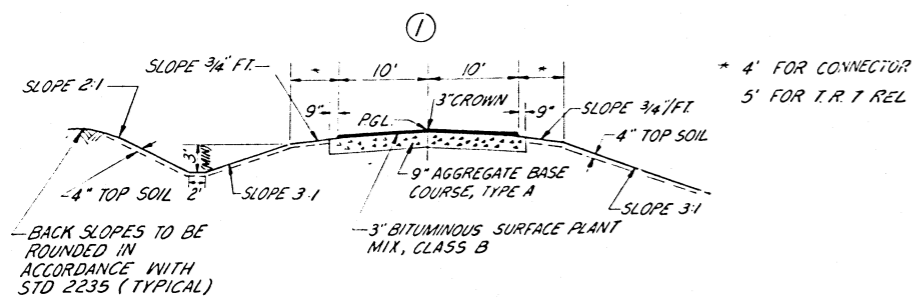
WESTENHOFF AND NOVICK, INC.  
 CONSULTING ENGINEERS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 155	68-SHB-2	MONT	39	3
FED ROAD DIST. NO. 4			ILLINOIS	PRCJ

GENERAL NOTES:

1. THE NOMINAL THICKNESSES FOR BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PER CENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
2. CONCRETE FOUNDATIONS, CONCRETE SLABS, EXISTING CULVERTS, HEADWALLS TO BE REMOVED, ETC. SHALL BE CONSIDERED AS INCIDENTAL TO EARTH EXCAVATION IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS. ALL REMOVED PIPE CULVERTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
3. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THIS LOCATION.
4. THE CROWN SHALL BE REMOVED FROM ALL PAVEMENTS BUILT WITH SUPERELEVATION. THE CROWN SHALL BE REMOVED OR INCORPORATED IN THE LENGTH OF SUPERELEVATION ATTAINMENT.
5. THE TWO PROJECT SIGNS (STD 2153) ARE TO BE LOCATED AS SHOWN ON SHEET 6.
6. THE REVISION NUMBER INDICATED FOR THE STANDARDS SHOWN IN THE INDEX OF SHEETS ON THE TITLE SHEET SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
7. SEEDING SCHEDULE - SPRING SEEDING, ALL CLASSES MARCH 10 TO MAY 15  
FALL SEEDING, ALL CLASSES AUGUST 15 TO OCTOBER 20



TOWN ROAD 7-NORMAL

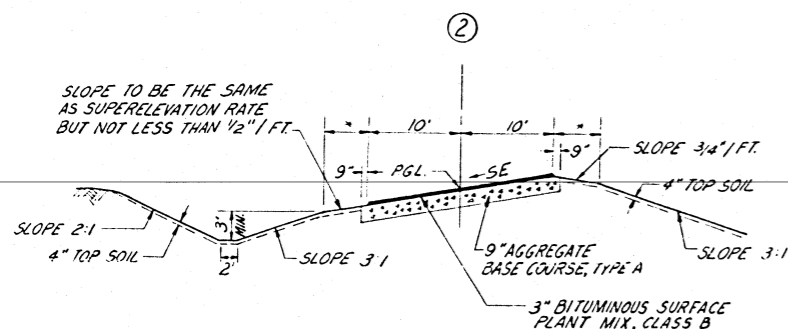
STA 41+36.53 TO STA 41+89.87  
 TRANSITION FROM SEC ① AT STA 41+89.87 TO SEC ② AT STA 43+81.87  
 STA 47+99.00 TO STA 48+11.17  
 STA 48+11.17 TO STA 51+45.50 BRIDGE OMISSION  
 STA 51+45.50 TO STA 51+63.00  
 TRANSITION FROM SEC ① AT STA 51+63.00 TO SEC ② AT STA 53+55.00  
 STA 41+96.47 TO STA 42+78.0 & CONNECTOR  
 TRANSITION FROM SEC ① AT STA 42+78.0 TO SEC ③ AT STA 43+78.0 & CONNECTOR  
 STA 46+54.0 TO STA 48+66.10 & CONNECTOR

PAV'T ANALYSIS DATA FOR T.R.7

STRUCTURAL DESIGN TRAFFIC: YEAR 1979 PC=167 U.S.=66 MU=2  
 CLASS II ROADS AND STREETS  
 MINIMUM SOILS SUPPORT: CBR=2 (STA. 35+35 TO 63+70)  
 PER CENT OF S.D.T. IN DESIGN LANE  $U_p=50, U_s=50, U_m=50$   
 T.F.=0.00624

PAV'T ANALYSIS DATA FOR T.R.7 CONNECTOR

STRUCTURAL DESIGN TRAFFIC: YEAR 1979 PC=146 U.S.=57 MU=2  
 CLASS II ROADS AND STREETS  
 MINIMUM SOILS SUPPORT: CBR=2 (STA. 41+84.92 TO 48+66.10)  
 PER CENT OF S.D.T. IN DESIGN LANE  $U_p=50, U_s=50, U_m=50$   
 T.F.=0.00555



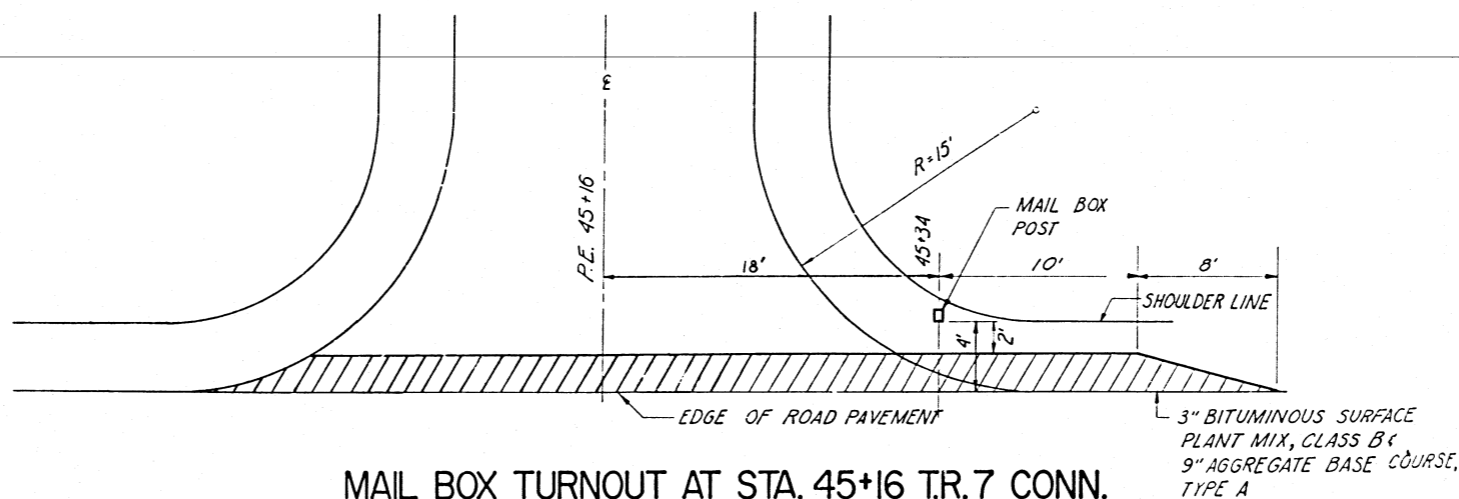
TOWN ROAD 7-SE LEFT

STA 43+81.87 TO STA 46+07.00  
 TRANSITION FROM SEC ② AT STA 46+07.00 TO SEC ① AT STA 47+99.00  
 STA 53+55.00 TO STA 55+76.75  
 TRANSITION FROM SEC ② AT STA 55+76.75 TO SEC ③ AT STA 59+60.75

③

TOWN ROAD 7- SE RIGHT

TRANSITION FROM EXISTING T.R.7 AT STA 35+35 TO SEC. ③ AT STA 37+28.28  
 STA 37+28.28 TO STA 39+44.33  
 TRANSITION FROM SEC ③ AT STA 39+44.33 TO SEC ① AT STA 41+36.53  
 STA 59+60.75 TO STA 61+74.81  
 TRANSITION FROM SEC ③ AT STA 61+74.81 TO EXISTING T.R.7 AT STA 63+70.00  
 STA 43+78.0 TO STA 45+54.0 & CONNECTOR  
 TRANSITION FROM SEC ③ AT STA 45+54.0 TO SEC ① AT STA 46+54.0 & CONNECTOR



MAIL BOX TURNOUT AT STA. 45+16 T.R.7 CONN.

SCALE 1"=5'

JUNE 8 1970  
 J. R. Fine  
 DISTRICT ENGINEER

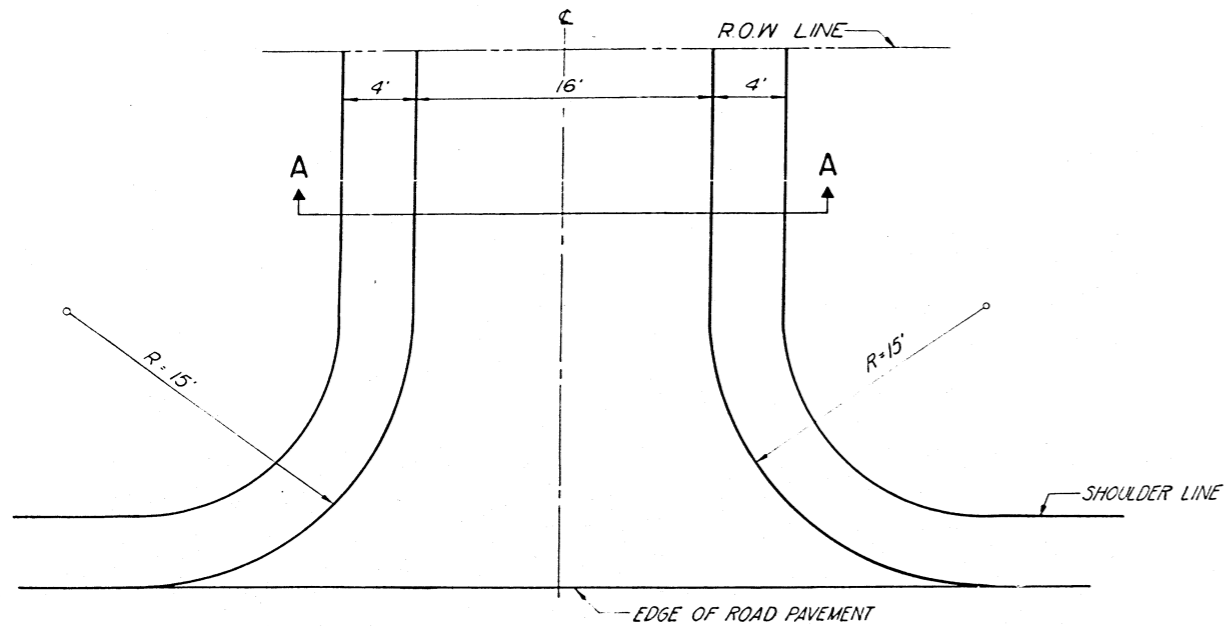
STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

TYPICAL SECTIONS

WESTENHOFF AND NOVICK, INC.  
 CONSULTING ENGINEERS

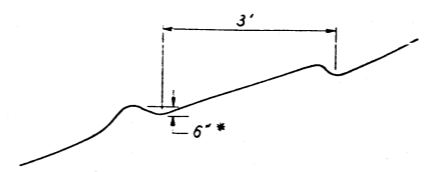
DESIGNED BY FTP  
 DRAWN BY S.D.D.  
 CHECKED BY H.F.T.  
 APPROVED BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 55	68-SHB-2	MONT.	39	4
FED ROAD DIST. NO. 4			ILLINOIS	PROJ.



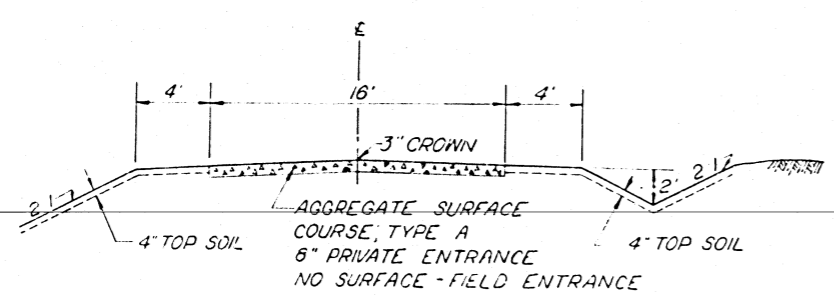
**PRIVATE ENTRANCE & FIELD ENTRANCE**

SCALE 1" = 5'

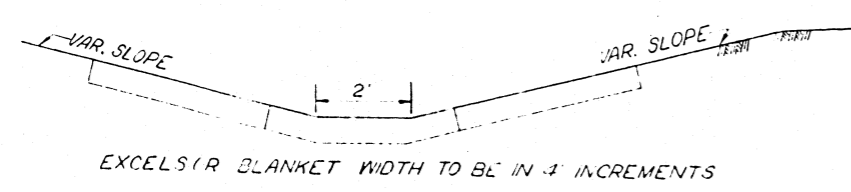


\* NOTE: TRENCHES TO BE PARALLEL TO CONTOUR LINES FOR THE FILL

**PLOWING METHOD FOR CLASS III SEEDING**

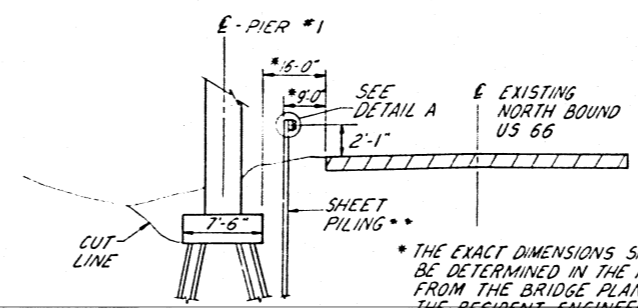


**SECTION A-A**



**LINED DITCH**

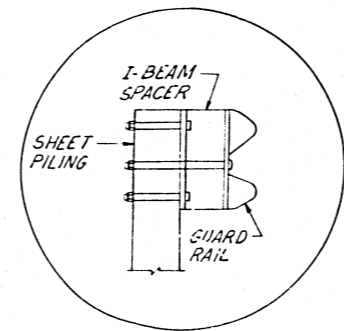
SCALE 1" = 2'



\*\* BEYOND THE LIMITS OF SHEET PILING, THE TEMPORARY PIER GUARD RAIL SHALL BE MOUNTED ON THE STANDARD STEEL POSTS IN ACCORDANCE WITH STD. 2230. STATION LIMITS FOR GUARD RAIL ARE SHOWN ON PLAN SHEETS.

\* THE EXACT DIMENSIONS SHALL BE DETERMINED IN THE FIELD FROM THE BRIDGE PLANS BY THE RESIDENT ENGINEER.

**TEMPORARY PIER GUARD RAIL**



**DETAIL A**

SPECIAL SYMBOLS

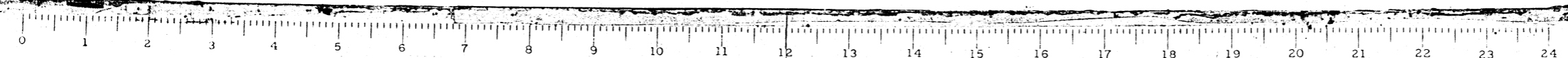
TE	TEMPORARY EASEMENT
M.L.	MATCH LINE
TG	TOP OF GRATE
▲	PERMANENT SURVEY MARKER
----	NOVEN WIRE FENCE
=====	LINED DITCH
	P.C.C. PAVEMENT REMOVAL

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

**TYPICAL SECTIONS**

WESTENHOFF AND NOVICK, INC.  
CONSULTING ENGINEERS

DESIGNED BY FTP  
DRAWN BY SDD  
CHECKED BY W.F.T.  
APPROVED BY \_\_\_\_\_



SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE
				4251 X771
201002	TREE REMOVAL (OVER 15 INCH DIAMETER)	IN DIA	188	188
202001	EARTH EXCAVATION	CU YD	2,853	2,853
204001	BORROW EXCAVATION	CU YD	91,141	91,141
X21601	TOP SOIL EXCAVATION	CU YD	3,153	3,153
X21602	TOP SOIL PLACEMENT	SQ YD	25,116	25,116
301001	AGGREGATE BASE COURSE, TYPE A	TON	3,984	3,984
402001	AGGREGATE SURFACE COURSE, TYPE A	TON	20	20
405001	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2,719	2,719
405003	BITUMINOUS MIXTURE COMPLETE	TON	1,217	1,217
502001	CLASS A EXCAVATION FOR STRUCTURES	CU YD	100	100
503004	PROTECTIVE COAT	SQ YD	1,240	1,240
504003	CLASS X CONCRETE	CU YD	543.9	543.9
505008	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 30 IN	LIN FT	132	132
507025	STUD SHEAR CONNECTORS	EACH	1,944	1,944
507030	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
508005	ALUMINUM RAILING	LIN FT	660	660
511025	PIPE CULVERTS, TYPE 1 15"	LIN FT	106	106
511028	PIPE CULVERTS, TYPE 1 24"	LIN FT	88	88
511085	PIPE CULVERTS, TYPE 2A 18"	LIN FT	56	56
511830	CULVERT END SECTIONS 13"	EACH	2	2
511832	CULVERT END SECTIONS 24"	EACH	2	2
512001	REINFORCEMENT BARS	POUND	106,830	106,830
513012	FURNISHING STEEL PILES #BP36	LIN FT	1,324	1,324
513026	DRIVING STEEL PILES	LIN FT	1,324	1,324
513032	TEST PILE STEEL #BP36	EACH	2	2
514001	NAME PLATES	EACH	1	1
602044	CORRUGATED STEEL PLATE PIPE ARCHES 154" X 100"	LIN FT	44	44
618001	SLOPE WALL 4 INCH	SQ YD	224	224
628001	STEEL PLATE BEAM GUARD RAIL, SINGLE RAIL	LIN FT	1,575	1,575
X62801	TERMINAL SECTION, SINGLE RAIL	EACH	4	4
639001	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	31	31
642002	SEEDING, CLASS II	ACRE	4.0	4.0
642003	SEEDING, CLASS III	ACRE	3.6	3.6
642004	NITROGEN FERTILIZER NUTRIENT	POUND	760	760
642005	PHOSPHORUS FERTILIZER NUTRIENT	POUND	560	560
642006	POTASSIUM FERTILIZER NUTRIENT	POUND	560	560
642007	AGRICULTURAL GROUND LIMESTONE	TON	15.2	15.2
643001	MULCH	TON	15.2	15.2
643004	EXCELSIOR BLANKET	SQ YD	492	492
646001	ENGINEER'S FIELD OFFICE, TYPE A	EACH	1	1
Z10029	BRIDGE SEAT SEALANT	L SUM	1	1
A10227	EXPLORATION TRENCH (52 IN DEPTH)	LIN FT	100	100
XZ1008	TRAFFIC CONTROL AND PROTECTION, STANDARD 2315	C DAY	15	15

STATION	LENGTH	PAVEMENT QUANTITIES					
		9" AGGREGATE BASE COURSE, TYPE A WIDTH (FEET)	TONS	BITUMINOUS MATERIALS PRIME COAT WIDTH (FEET)	GALLONS	3" BITUMINOUS MIX COMPLETE WIDTH (FEET)	TONS
<b>TR-7 REL</b>							
35+35 - 36+00	65.00	18-21.50	73	18-21.50	50	18-20	23
36+00 - 48+11.17	1211.17	21.50	1483	21.50	1013	20	452
48+07.17 - 51+45.50	BRIDGE OMISSION						
51+45.50 - 63+00	1154.50	21.50	1413	21.50	966	20	431
63+00 - 63+85	85.00	21.50-18	96	21.50-18	65	20-18	30
<b>TR-7 CONNECTOR</b>							
41+96.47 - 48+66.10	669.63	21.50 & VARIES	815	21.50	560	20	250
<b>RETURNS</b>		VARIES	104	VARIES	65	VARIES	31
<b>TOTALS</b>			3984		2719		1217

ROADWAY	STATION	OFFSET & SIDE	SIDE	STATION TO STATION	LENGTH FT.
TR-7	35+34.81	16.65' RT.	TR-7 LT.	43+93.7 to 48+06.2	412.5
	35+34.90	23.35' LT.	RT.	43+53.7 to 48+06.2	412.5
	35+34.94	40' LT.	LT.	51+50.5 to 55+25.5	375
	36+00	40' RT.	RT.	51+50.5 to 55+25.5	375
	36+64.28	40' LT.		TOTAL	1575
	38+60	49.08' LT.			
	40+08.53	50' RT.			
	43+00	60' LT.			
	44+50	85' RT.			
	45+00	75' LT.			
	46+71.00	100' RT.	TR-7 LT.	43+68.7 to 43+93.7	1
	48+16	90' LT.	RT.	43+68.7 to 43+93.7	1
	48+16	100' RT.	LT.	55+25.5 to 55+50.5	1
	51+46	110' RT.	RT.	55+25.5 to 55+50.5	1
	51+50	100' LT.		TOTAL	4
	52+50	110' RT.			
	54+25	100' RT.			
	55+00	70' LT.			
	57+50	50' LT.			
	58+50	50' RT.			
	61+03.85	40' LT.			
	62+38.82	40' LT.			
	63+00	50' RT.			
	63+88.61	23.16' LT.	TR-7	35+35 to 36+90	155
	63+88.61	26.84' RT.		38+00 to 41+00	200
	43+00	40' RT.	Conn.	43+94 to 44+06	12
	44+15	62.60' LT.			4.0
	45+00	45' RT.			18
	45+88.13	35' LT.			
	47+74.58	35' LT.			
	47+81.68	49.19' RT.			
	TOTAL				31

SUMMARY OF CLASS X CONCRETE

STATION	ITEM	CLASS & CONCRETE
FAL 55 83+31	BRIDGE SUPER-STRUCTURE	315.4 C.Y.
	BRIDGE SUB-STRUCTURE	228.5 C.Y.
	TOTAL	543.9 C.Y.

TREE REMOVAL QUANTITIES

LOCATION	OFFSET	OVER 15" IN DIA.
TR-7 35+95	20' RT.	18"
36+44	22' RT.	26"
37+04	18' RT.	40"
38+08	20' RT.	32"
38+28	14' RT.	32"
38+85	25' RT.	40"
TOTAL		188"

DITCH LININGS

STATION TO STATION	SIDE	LENGTH	VELOCITY FPS	EXCELSIOR BLANKET 12" WIDE (SQ. YD.)
TR-7 35+35 to 36+90	LT.	155	5.2	207
38+00 to 41+00	RT.	200	4.0	267
Conn. 43+94 to 44+06	LT.	12	4.0	18

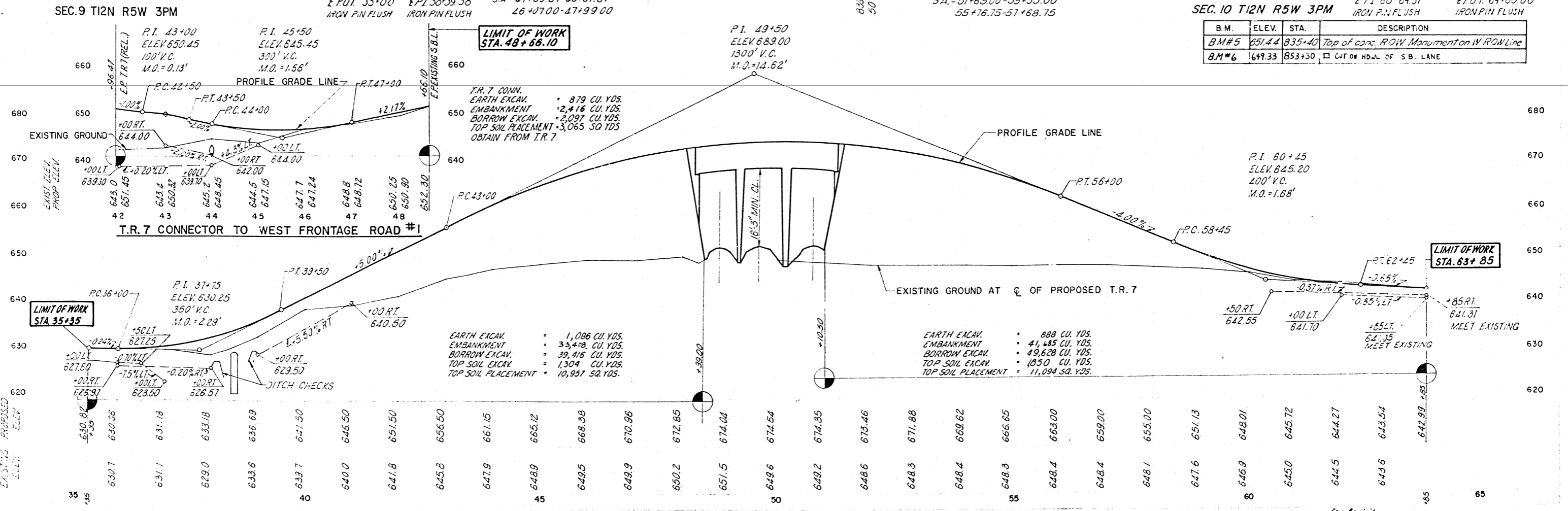
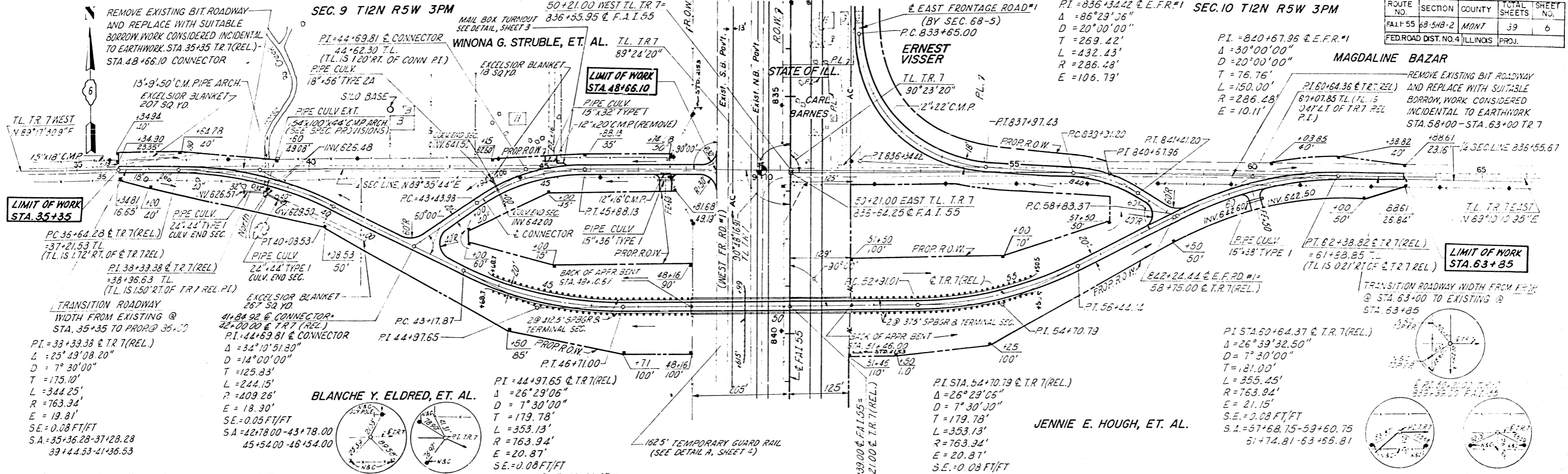
DESIGNED BY F.P.P.  
 DRAWN BY S.D.D.  
 CHECKED BY W.F.T.  
 APPROVED BY

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

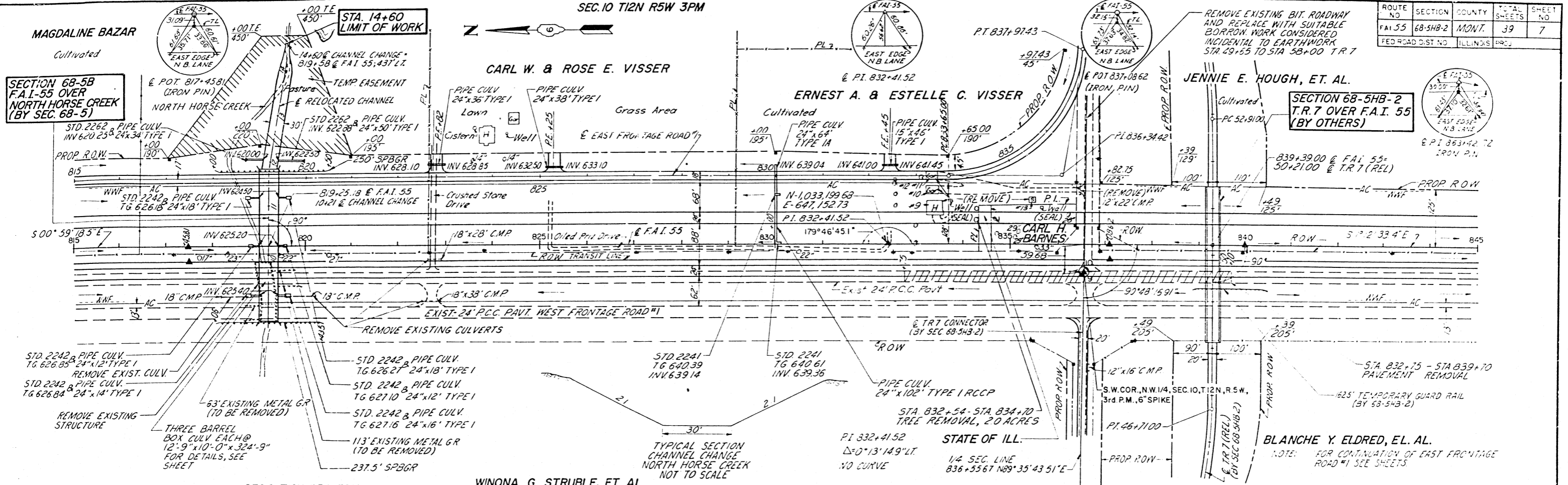
**SUMMARY AND SCHEDULES OF QUANTITIES**

WESTENHOFF AND NOVICK, INC.  
 CONSULTING ENGINEERS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAH-55	68-54B-2	MONT	39	6
FED. ROAD DIST. NO. 4			ILLINOIS	PROJ.

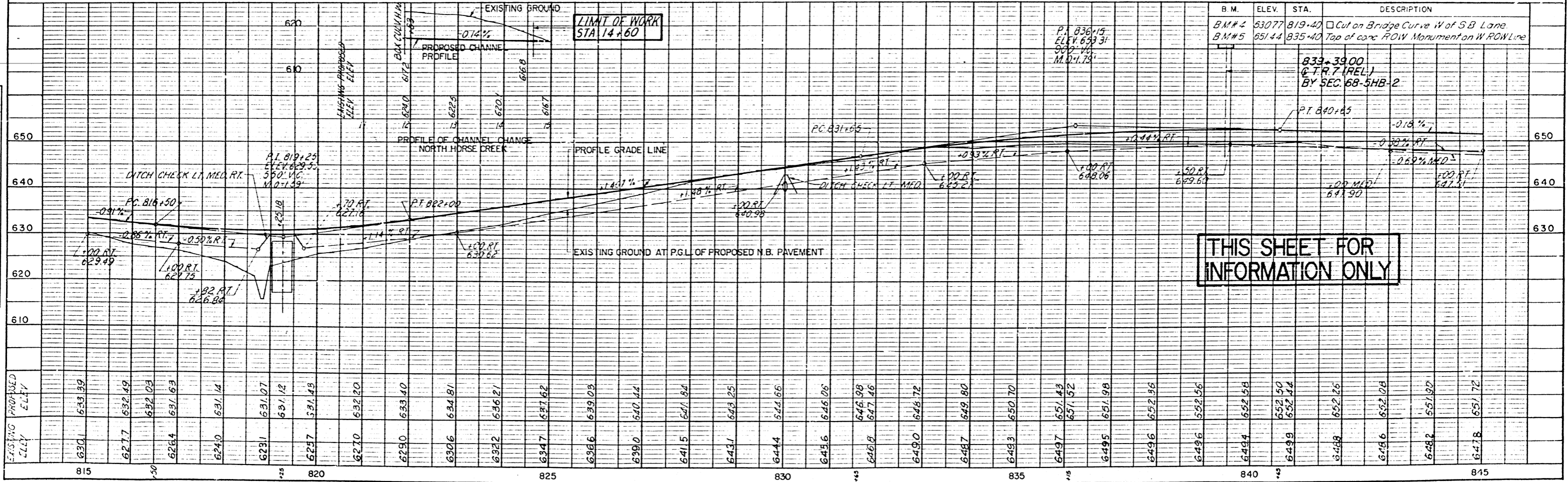


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FAI 55	68-5HB-2	MONT.	39	7
FED ROAD DIST NO	ILLINOIS	PREC		



SEC. 9 T12N R5W 3PM

WINONA G. STRUBLE, ET AL.



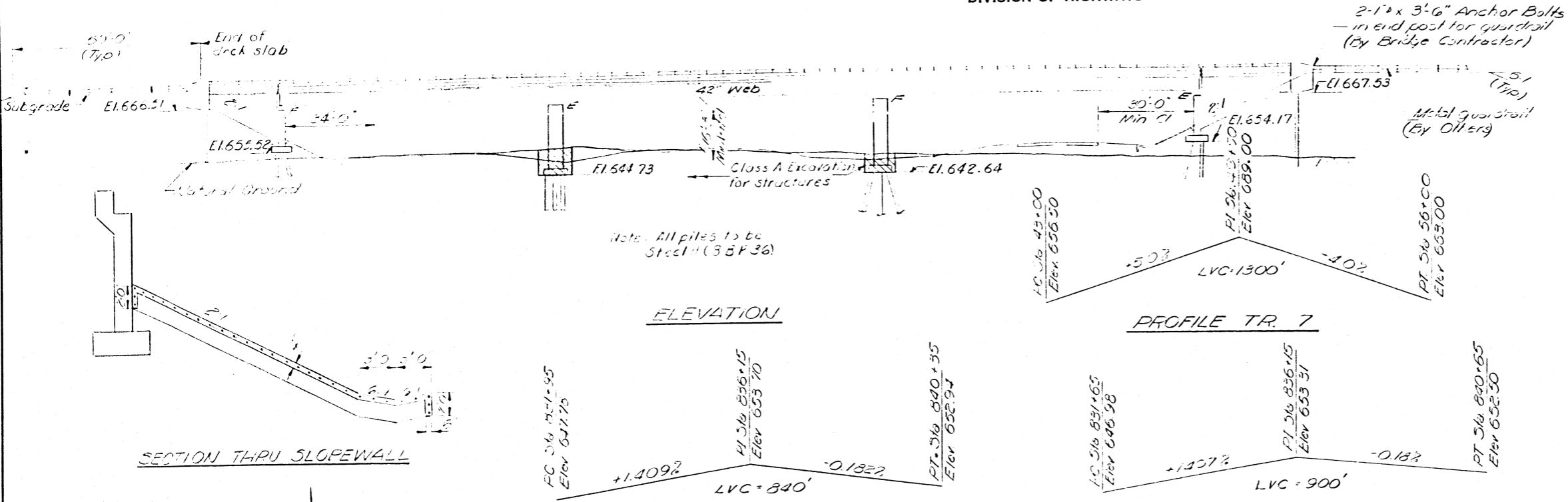
**THIS SHEET FOR INFORMATION ONLY**



EM #5 Top of concrete ROW Monument on West ROW Line + Sta 835+40 Elev 651.69

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

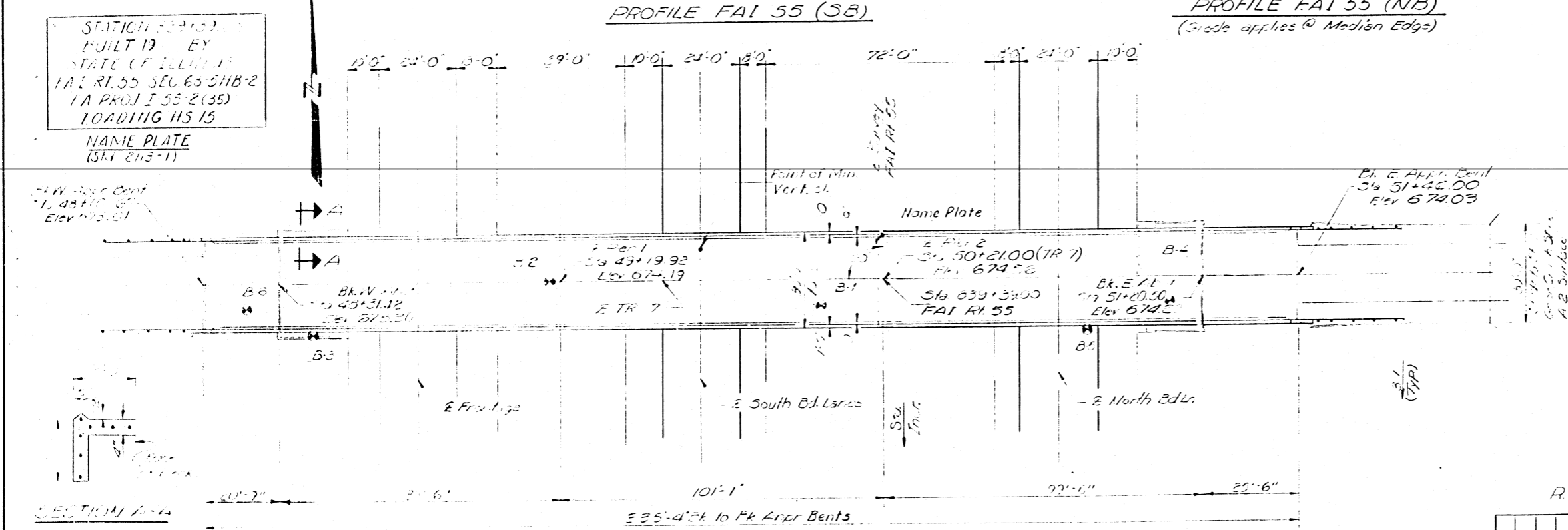
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	68-5-2	Montgomery	39	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



**GENERAL NOTES**

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.  
Fasteners shall be high strength bolts, bolts 3/8", open holes 1/8" dia, unless otherwise noted.  
Calculated weight of Structural Steel = 241,390 Lbs.  
Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.  
Anchor bolts shall be set before bolting diaphragms over supports.  
Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 sq ft.  
The concrete rail section above the mandatory construction joint at the top of the slab shall be a minimum of Class A Concrete, except the aggregates shall conform to the requirements of Standard Concrete.  
The Basic Lead Silico Chromate paint system shall be used for shop and field painting of structural steel.  
The Contractor shall drive two steel test piles in a permanent location One at West Abut. and One at Pier #2 as directed by the Engineer before ordering the remainder of piles.  
Class A Excavation for structures includes excavation for slope wall.  
An alternate strand pattern using Extra High Strength Prestressing strand (270 K S 1) is permitted.  
The permanent configuration of abutments shall be established by a permanent monument that must be constructed prior to construction of the abutments.

STATION 839+32.0  
PUILT BY  
STATE OF ILLINOIS  
F.A.I. RT. 55 SEC. 68-5HB-2  
1A PROJ. I-55-2(35)  
LOADING HS 15  
NAME PLATE  
(SHT. 243-1)



**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Class A Excavation for Struct	Cu Yds		100	100
Protective Coat	Sq Yds	124.0		124.0
Class X Concrete	Cu Yds	315.4	228.5	543.9
Structural Steel	L.S.	L.S.		L.S.
Stud Shear Connectors	Each	1944		1944
Aluminum Railing	Lin Ft.	660		660
Reinforcement Bars	Lbs.	72500	34330	106830
Steel Piles, 24" x 36"	Lin Ft.		1324	1324
Test Piles, Steel, 24" x 36"	Each		2	2
Name Plates	Each		1	1
Slope Wall (4")	Sq Yds		224	224
Brings Seal Sealant	L.S.			L.S.
Precast Prestressed Concrete T Beams, 36"	Lin Ft.	13		132

\* Applied at Abutments only

**DESIGN STRESSES:**

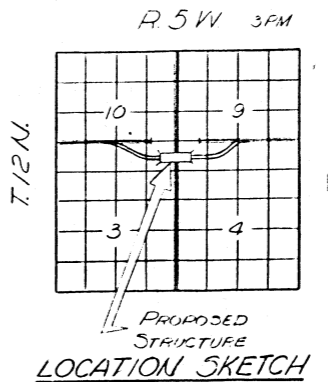
**PRECAST PRESTRESSED UNITS**

$f_c = 5000$  psi  
 $f_{cr} = 4000$  psi  
 $f_s = 243,000$  psi (Strands)  
 $f_{st} = 173,500$  psi (Strands)

**FIELD UNITS**

$f_c = 1200$  psi (Deck Slab)  
 $f_c = 1400$  psi (Curb, Parapet, Sub)  
 $f_s = 20,000$  psi (Reinf.)  
 $f_s = 20,000$  psi (Struct)  
 $f_c = 75$  psi (Flgs)  
 $n = 10$   
Allowable 4 Deflection  $4/200$   
Future W.S. 25#10

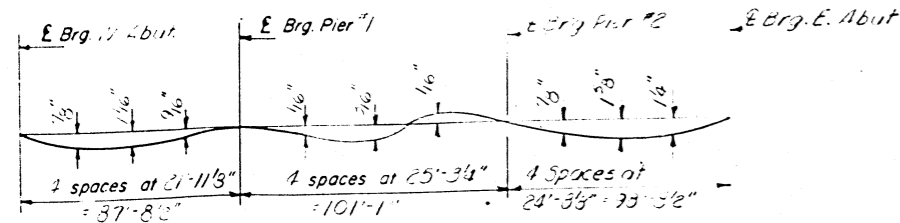
LOADING HS 15-44



**GENERAL PLAN & ELEVATION**  
TR. 7 OVER F.A.I. RT. 55  
PROJ. I-55-2(35)75  
F.A.I. RT. 55 SEC. 68-5HB-2  
MONTGOMERY COUNTY  
STA 839+39.00

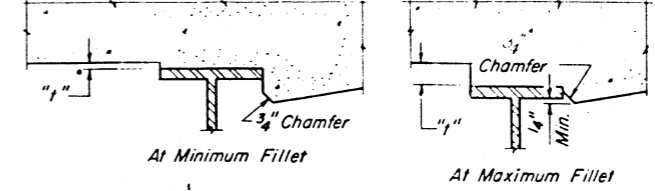
DESIGNED: [Signature]  
CHECKED: [Signature]  
DRAWN: [Signature]  
CHECKED: [Signature]

EXAMINED: [Signature] 1972  
PASSED: [Signature]  
APPROVED: [Signature] CHIEF HIGHWAY ENGINEER



**DEAD LOAD DEFLECTION DIAGRAM** (Main Spans)

(Includes weight of concrete only)  
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



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

**FILLET HEIGHTS** (Main Spans)

**MAIN SPANS**

**Girders 1 & 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	4831.420	12.000	673.179	673.179
E. Brg. West Abut.	4832.210	12.000	673.189	673.189
A	4842.210	12.000	673.317	673.350
B	4852.210	12.000	673.438	673.505
C	4862.210	12.000	673.553	673.631
D	4872.210	12.000	673.660	673.747
E	4882.210	12.000	673.760	673.838
F	4892.210	12.000	673.854	673.911
G	4902.210	12.000	673.940	673.977
H	4912.210	12.000	674.020	674.036
E. Brg. Pier #1	4919.920	12.000	674.077	674.077
I	4929.920	12.000	674.144	674.145
J	4939.920	12.000	674.204	674.206
K	4949.920	12.000	674.258	674.263
L	4959.920	12.000	674.304	674.314
M	4969.920	12.000	674.344	674.358
N	4979.920	12.000	674.377	674.384
O	4989.920	12.000	674.403	674.401
P	4999.920	12.000	674.422	674.416
Q	5009.920	12.000	674.434	674.431
R	5019.920	12.000	674.439	674.438
E. Brg. Pier #2	5021.000	12.000	674.439	674.439
S	5031.000	12.000	674.436	674.465
T	5041.000	12.000	674.427	674.454
U	5051.000	12.000	674.410	674.435
V	5061.000	12.000	674.387	674.408
W	5071.000	12.000	674.356	674.439
X	5081.000	12.000	674.319	674.441
Y	5091.000	12.000	674.275	674.386
Z	5101.000	12.000	674.224	674.305
AA	5111.000	12.000	674.166	674.204
E. Brg. East Abut.	5119.710	12.000	674.110	674.110
Bk. East Abut.	5120.500	12.000	674.105	674.105

**Girders 2 & 3**

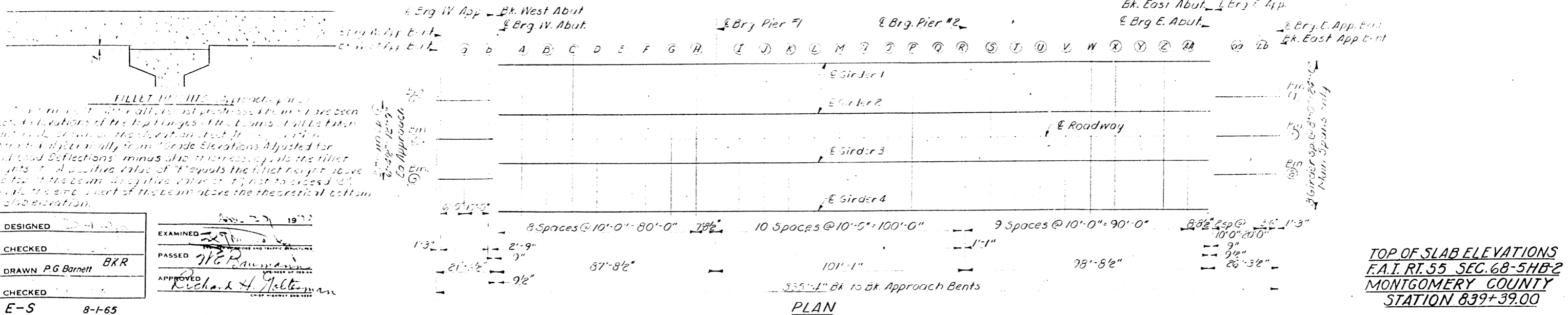
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	4831.420	4.000	673.282	673.282
E. Brg. West Abut.	4832.210	4.000	673.292	673.292
A	4842.210	4.000	673.421	673.454
B	4852.210	4.000	673.542	673.608
C	4862.210	4.000	673.656	673.736
D	4872.210	4.000	673.763	673.850
E	4882.210	4.000	673.864	673.941
F	4892.210	4.000	673.957	674.014
G	4902.210	4.000	674.044	674.080
H	4912.210	4.000	674.123	674.139
E. Brg. Pier #1	4919.920	4.000	674.180	674.180
I	4929.920	4.000	674.247	674.248
J	4939.920	4.000	674.308	674.310
K	4949.920	4.000	674.361	674.366
L	4959.920	4.000	674.408	674.417
M	4969.920	4.000	674.448	674.462
N	4979.920	4.000	674.480	674.487
O	4989.920	4.000	674.506	674.506
P	4999.920	4.000	674.525	674.520
Q	5009.920	4.000	674.537	674.534
R	5019.920	4.000	674.542	674.542
E. Brg. Pier #2	5021.000	4.000	674.542	674.542
S	5031.000	4.000	674.540	674.568
T	5041.000	4.000	674.530	674.588
U	5051.000	4.000	674.514	674.598
V	5061.000	4.000	674.490	674.600
W	5071.000	4.000	674.460	674.592
X	5081.000	4.000	674.423	674.544
Y	5091.000	4.000	674.378	674.489
Z	5101.000	4.000	674.327	674.408
AA	5111.000	4.000	674.269	674.307
E. Brg. East Abut.	5119.710	4.000	674.213	674.213
Bk. East Abut.	5120.500	4.000	674.208	674.208

**Roadway**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. West Abut.	4831.420	0.0	673.285	673.285
E. Brg. West Abut.	4832.210	0.0	673.306	673.306
A	4842.210	0.0	673.434	673.457
B	4852.210	0.0	673.555	673.621
C	4862.210	0.0	673.669	673.748
D	4872.210	0.0	673.777	673.865
E	4882.210	0.0	673.877	673.954
F	4892.210	0.0	673.970	674.028
G	4902.210	0.0	674.057	674.094
H	4912.210	0.0	674.137	674.152
E. Brg. Pier #1	4919.920	0.0	674.192	674.192
I	4929.920	0.0	674.261	674.262
J	4939.920	0.0	674.321	674.323
K	4949.920	0.0	674.375	674.379
L	4959.920	0.0	674.421	674.421
M	4969.920	0.0	674.461	674.475
N	4979.920	0.0	674.494	674.500
O	4989.920	0.0	674.519	674.518
P	4999.920	0.0	674.538	674.523
Q	5009.920	0.0	674.550	674.547
R	5019.920	0.0	674.555	674.555
E. Brg. Pier #2	5021.000	0.0	674.556	674.556
S	5031.000	0.0	674.553	674.582
T	5041.000	0.0	674.543	674.601
U	5051.000	0.0	674.527	674.611
V	5061.000	0.0	674.504	674.611
W	5071.000	0.0	674.473	674.606
X	5081.000	0.0	674.436	674.557
Y	5091.000	0.0	674.392	674.502
Z	5101.000	0.0	674.341	674.421
AA	5111.000	0.0	674.283	674.320
E. Brg. East Abut.	5119.710	0.0	674.227	674.227
Bk. East Abut.	5120.500	0.0	674.221	674.221

**EAST APPROACH**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
E. Brg. E. App.	5121.250	6.375	674.182	674.182
aa	5131.250	6.375	674.110	674.110
bb	5141.250	6.375	674.031	674.031
E. Brg. E. App Bent	5144.750	6.375	674.002	674.002
Bk. East App Bent	5144.000	6.375	674.991	674.991
E. Brg. E. App	5121.250	0.0	674.216	674.216
aa	5131.250	0.0	674.144	674.144
bb	5141.250	0.0	674.065	674.065
E. Brg. E. App Bent	5144.750	0.0	674.036	674.036
Bk. East Abut.	5144.000	0.0	674.025	674.025



DESIGNED: [Signature] 1972  
CHECKED: [Signature]  
DRAWN: P.G. Barnett BKR  
APPROVED: Richard H. [Signature]  
E-S 8-1-65

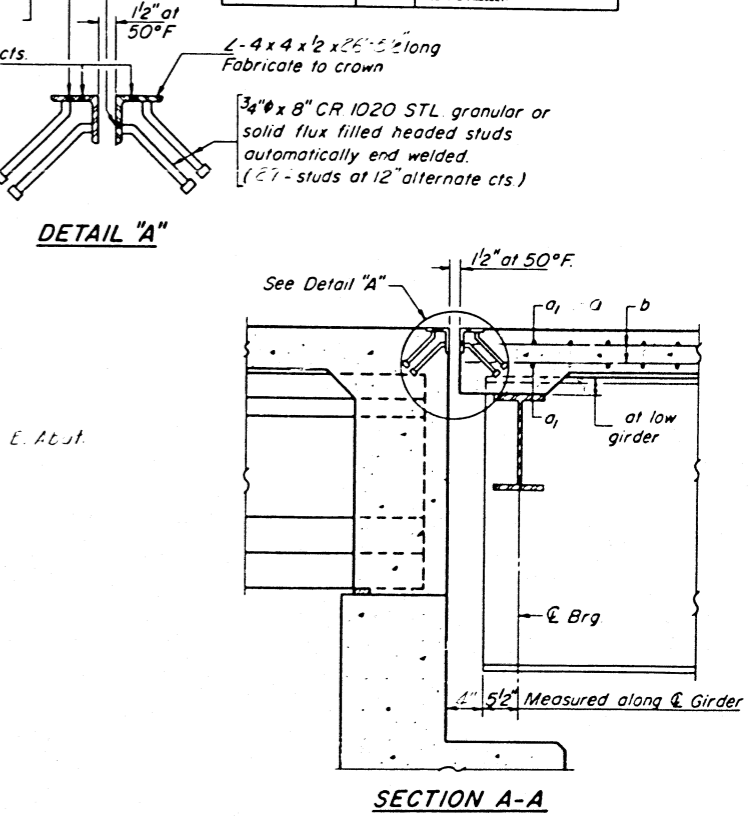
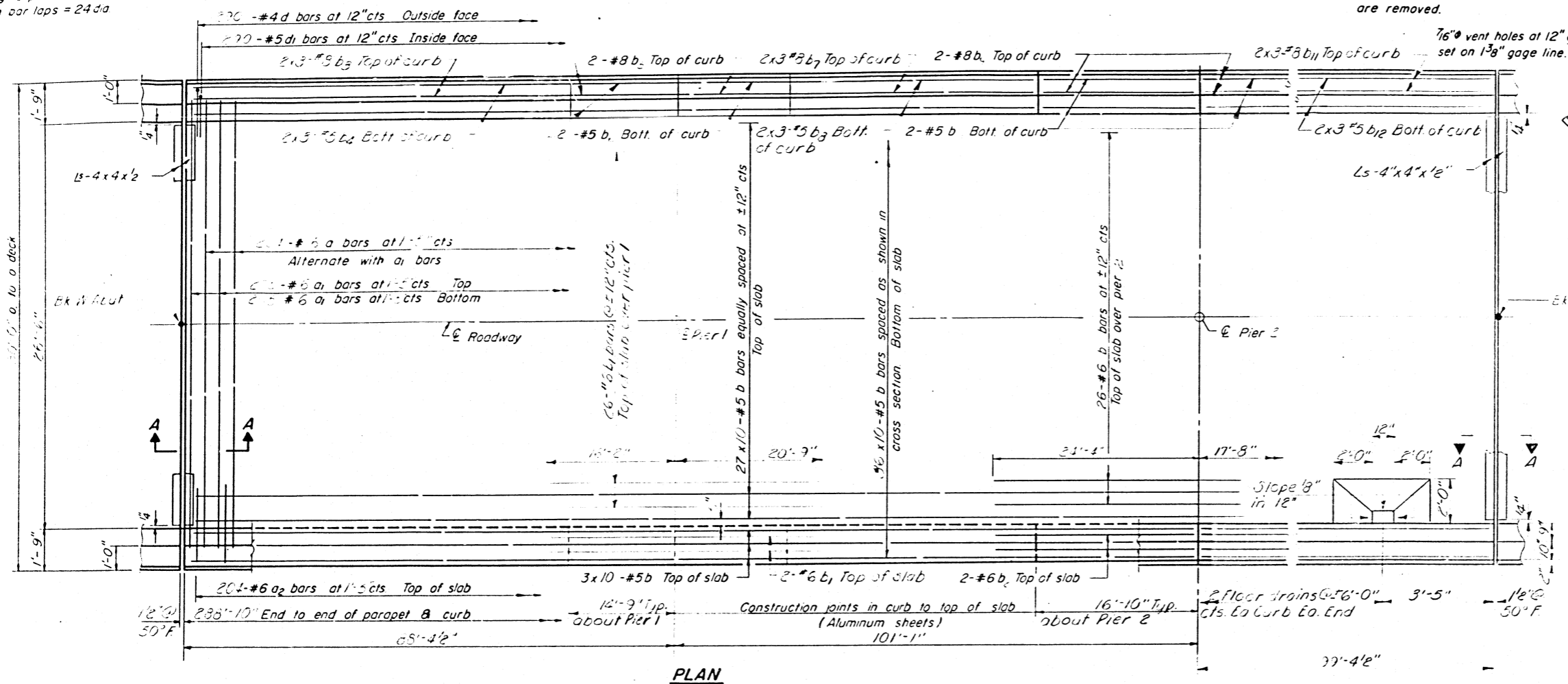
TOP OF SLAB ELEVATIONS  
F.A.I. RT. 55 SEC. 68-5HB-2  
MONTGOMERY COUNTY  
STATION 839+39.00

NOTE:  
 Bars indicated thus 20 x 3-#5 etc.  
 indicates 20 lines of bars with 3  
 lengths per line.  
 Min bar laps = 24 dia

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

7/16" holes at 12" cts. for 3/8" bolts set  
 on 2'2" gage line. All bolts shall be  
 burned, sawed or clipped off flush  
 with back of angles after forms  
 are removed.

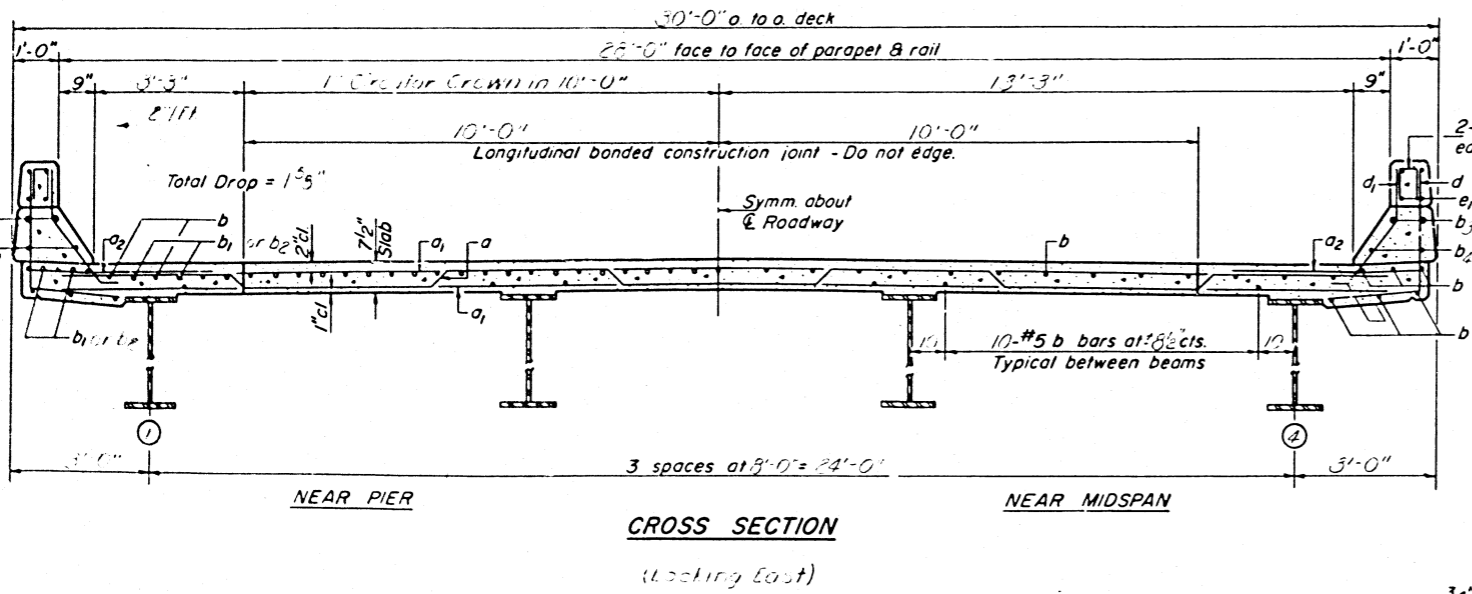
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1	1	1	31	13	13 SHEETS



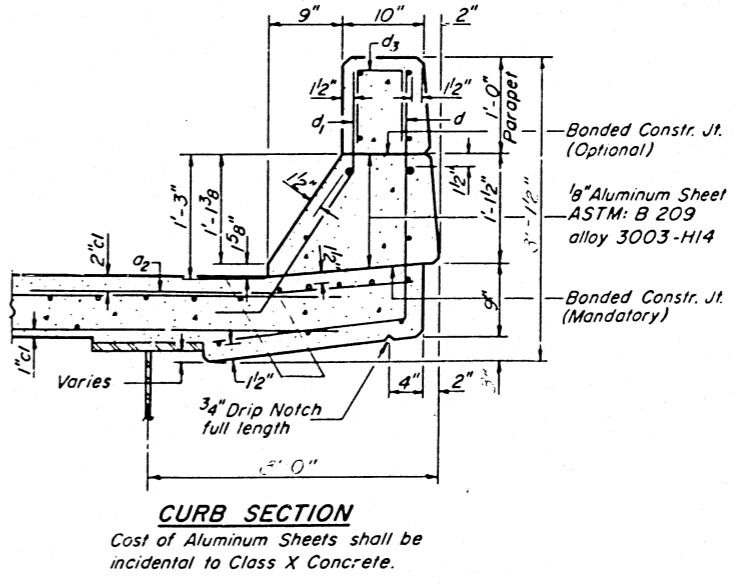
BILL OF MATERIAL

Bar No.	Size	Length	Shape
a	#6	29'-3"	~
a <sub>1</sub>	#6	28'-3"	~
a <sub>2</sub>	#6	4'-0"	~
b	#5	30'-0"	~
b <sub>1</sub>	#6	36'-11"	~
b <sub>2</sub>	#6	42'-0"	~
b <sub>3</sub>	#6	42'-0"	~
b <sub>4</sub>	#5	25'-7"	~
b <sub>5</sub>	#8	11'-6"	~
b <sub>6</sub>	#5	14'-6"	~
b <sub>7</sub>	#8	24'-6"	~
b <sub>8</sub>	#5	24'-2"	~
b <sub>9</sub>	#8	16'-7"	~
b <sub>10</sub>	#5	16'-7"	~
c <sub>1</sub>	#3	28'-7"	~
c <sub>2</sub>	#3	4'-7"	~
d	#4	4'-5"	~
d <sub>1</sub>	#5	3'-3"	~

Reinforcement Bars Lbs 62070  
 Class X Concrete Cu Yds 243.6  
 Stud Shear Connectors Each 1744



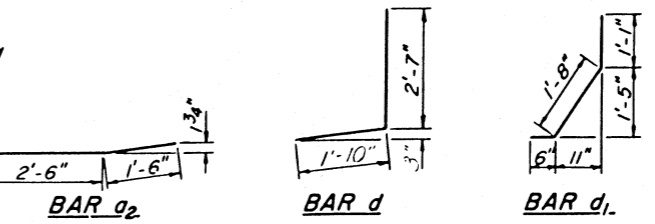
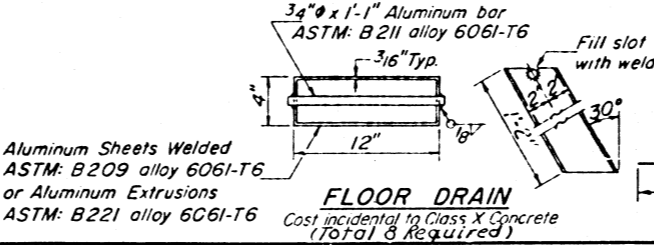
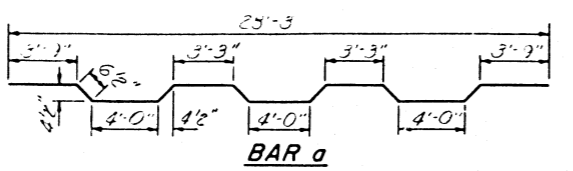
NOTE: For placement of bars d<sub>3</sub> and e<sub>1</sub> thru e<sub>5</sub> see sheet # 6



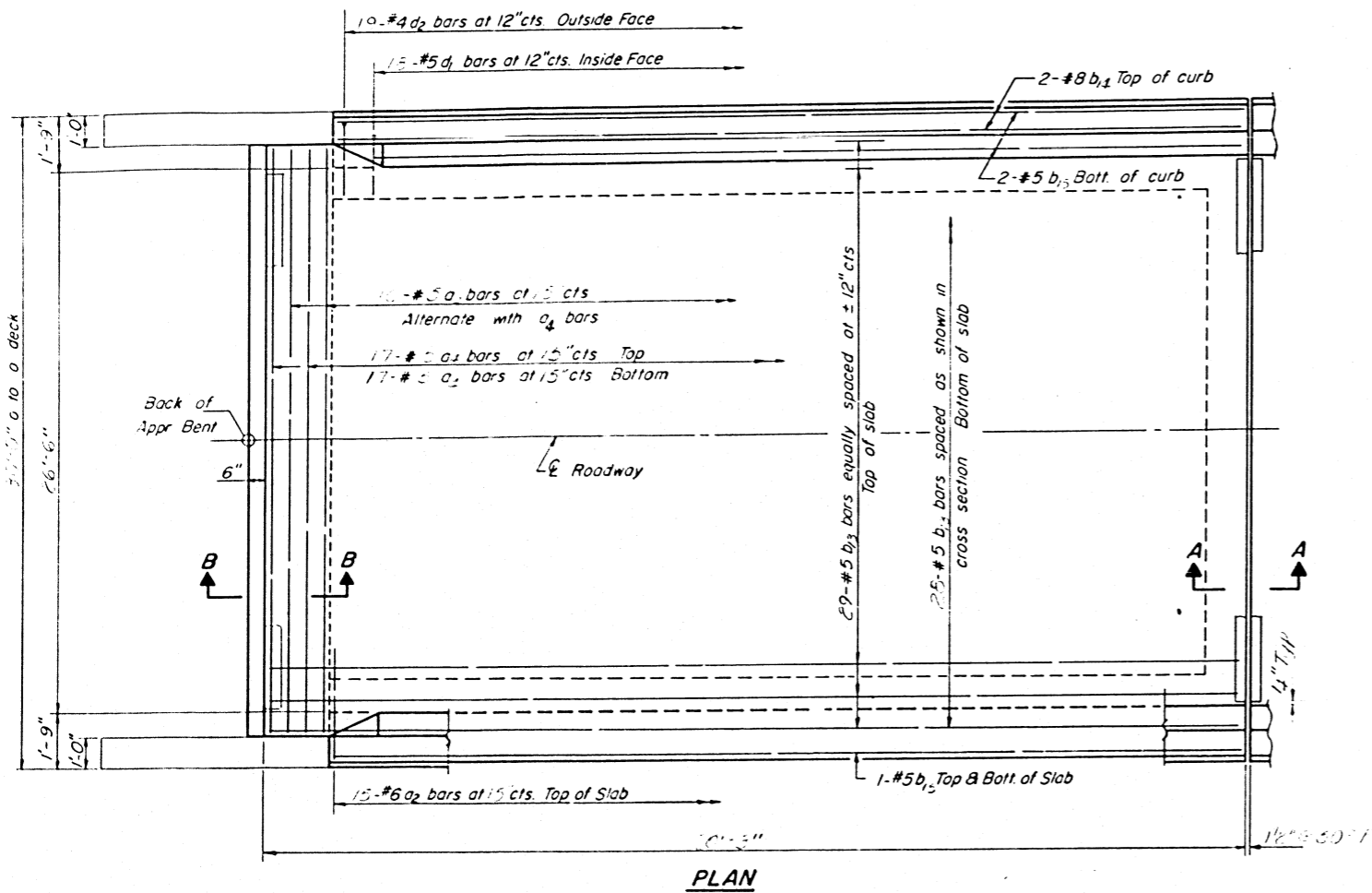
Parapet Reinforcement and Class X Concrete are billed on sheet # 6

DESIGNED	APR 23 1970
CHECKED	
DRAWN	
CHECKED	

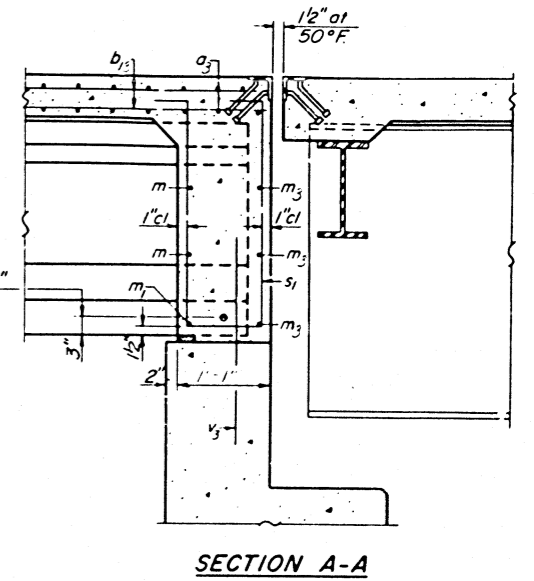
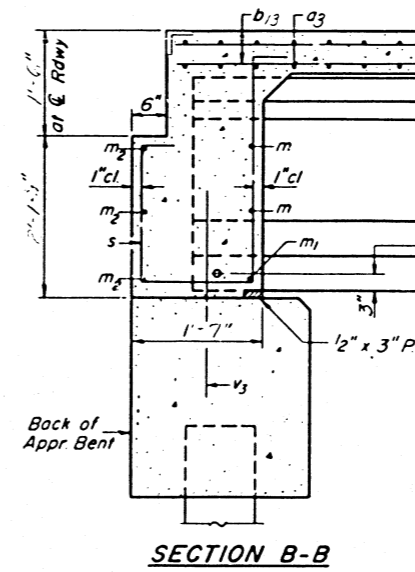
EXAMINED  
 PASSED  
 APPROVED



MAIN SPANS  
 SUPERSTRUCTURE  
 FAI RT. 55 SEC. 68-511B-2  
 MONTGOMERY COUNTY  
 STATION 839+39.00

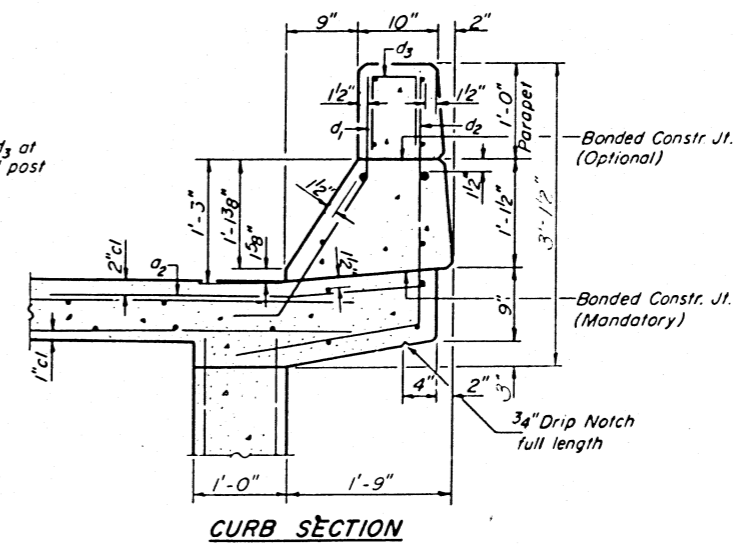
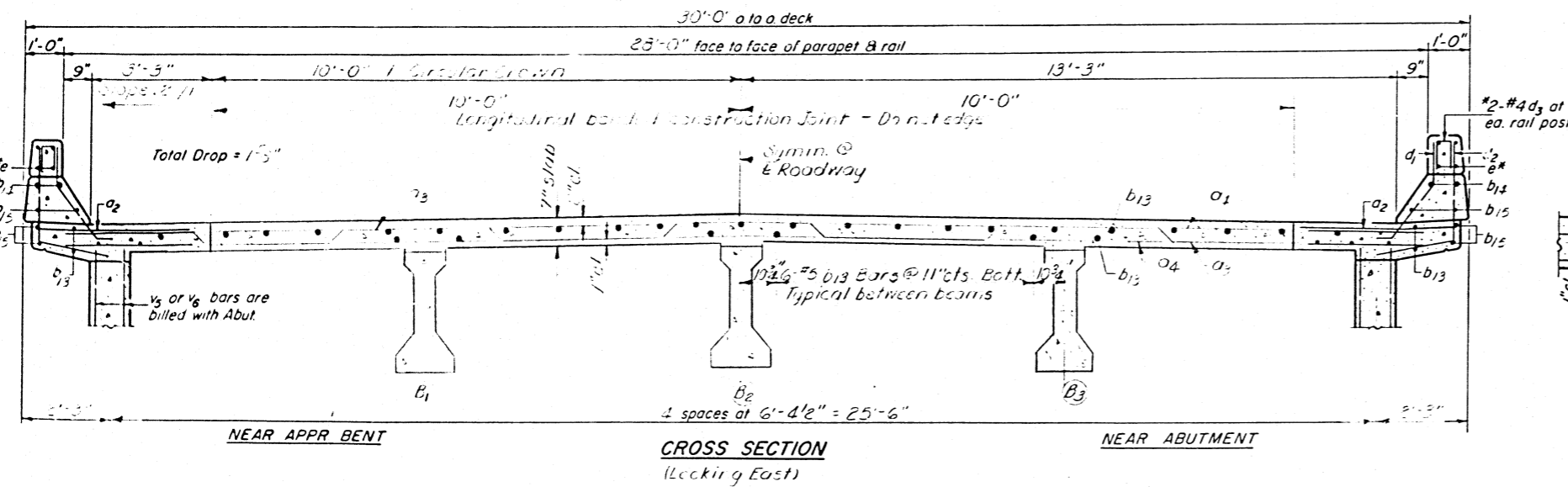


NOTE: For details of expansion angles see Detail "A" sheet #3



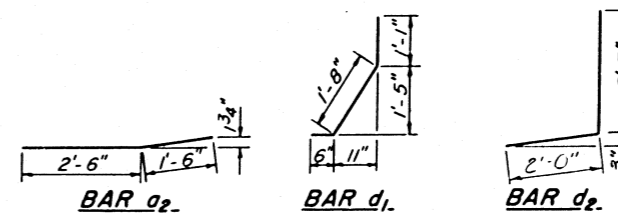
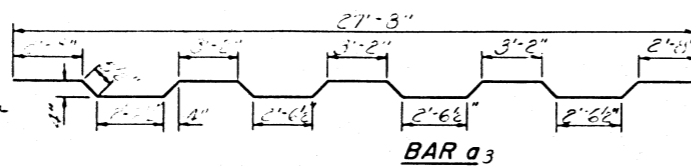
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	30	#8	4'-0"	—
a1	16	#5	26'-0"	—
a2	34	#5	21'-8"	—
b1	57	#5	20'-0"	—
b2	4	#8	18'-0"	—
b3	8	#5	15'-0"	—
d1	36	#5	3'-3"	J
d2	39	#4	4'-7"	J
m	16	#4	5'-1"	—
m1	8	#5	4'-7"	—
m2	3	#5	27'-6"	—
m3	3	#5	24'-3"	—
s	16	#4	7'-5"	J
s1	16	#4	5'-3"	J
Reinforcement Bars			Lbs.	3530
Class X Concrete			Cu Yds.	23.4

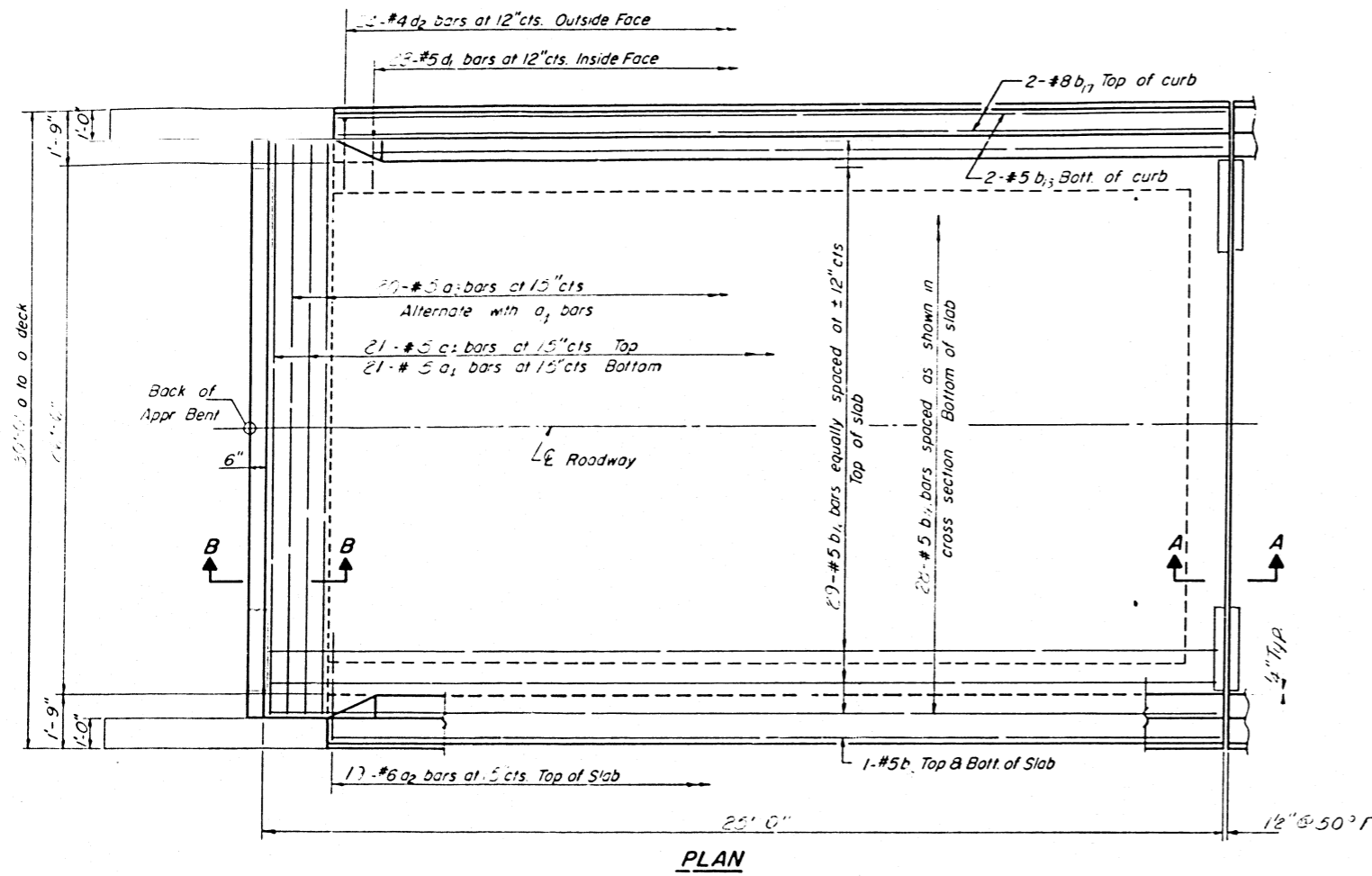


\*Parapet Reinforcement and Class X Concrete are billed on sheet #6.  
For placement and details of bars m thru m3 and s thru s1, see sheet #12

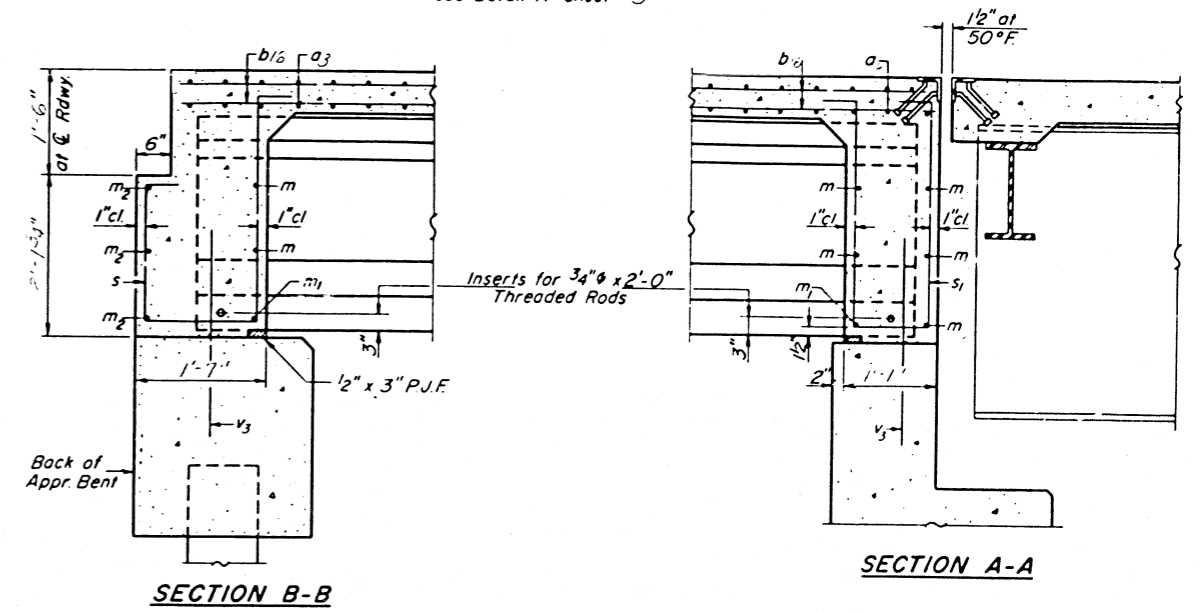
DESIGNED	APR 23 1970
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	APPROVED



WEST APPROACH  
SUPERSTRUCTURE  
F.A.I. RT. 55, SEC. 68-5HB-2  
MONTGOMERY COUNTY  
STATION 832+32.00

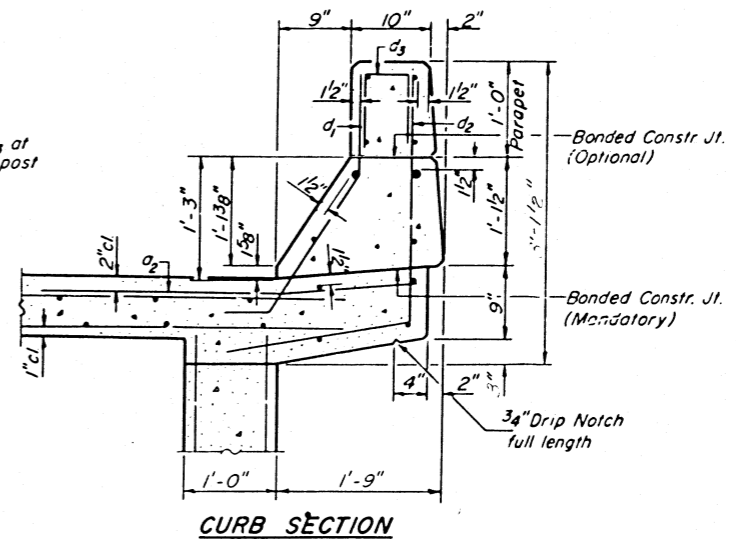
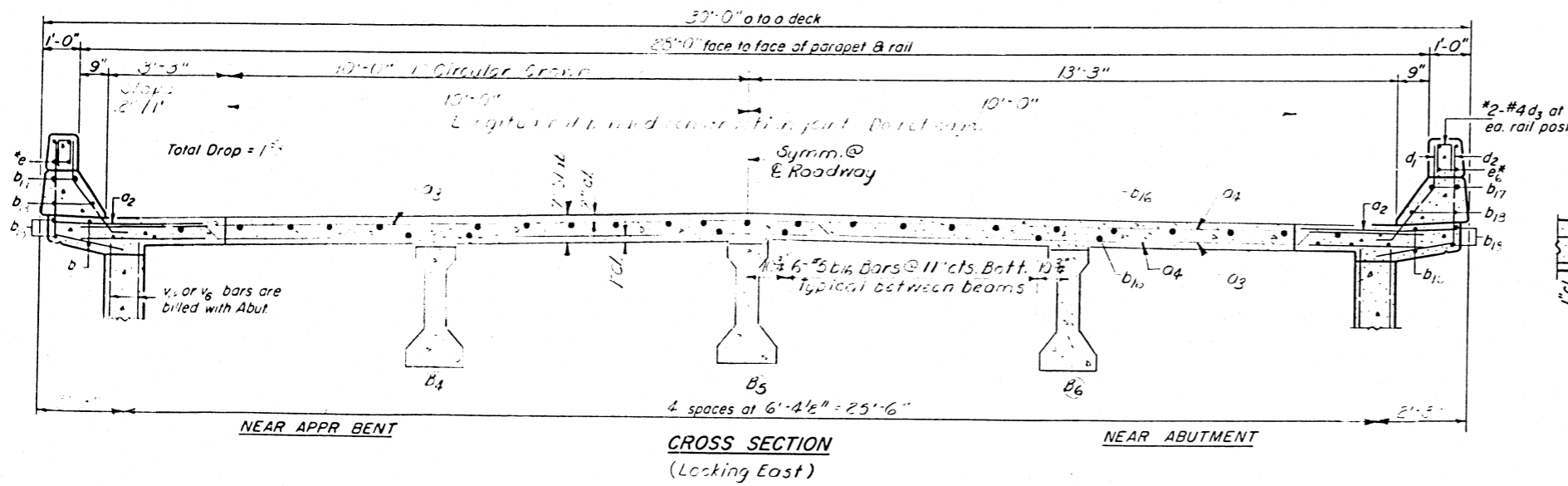


NOTE: For details of expansion angles see Detail 'A' sheet #3



**BILL OF MATERIAL**

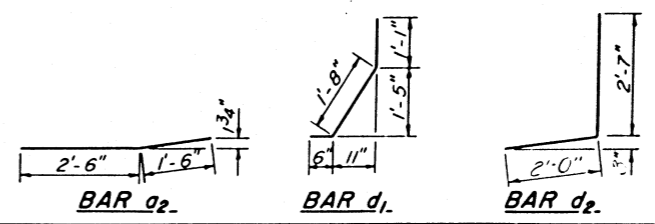
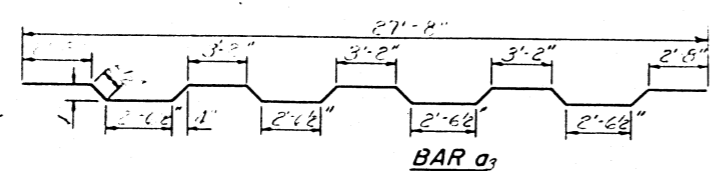
Bar	No.	Size	Length	Shape
a <sub>2</sub>	38	#6	4'-0"	—
a <sub>3</sub>	20	#5	24'-5"	—
a <sub>3</sub>	42	"	21'-6"	—
b <sub>16</sub>	57	#5	21'-9"	—
b <sub>17</sub>	4	#8	22'-7"	—
b <sub>18</sub>	3	#5	22'-9"	—
d <sub>1</sub>	46	#5	3'-3"	J
d <sub>2</sub>	45	#4	4'-7"	J
m	16	#4	5'-1"	—
m <sub>1</sub>	5	#5	4'-7"	—
m <sub>2</sub>	3	#5	27'-6"	—
s <sub>3</sub>	3	#5	24'-3"	—
s	16	#4	7'-5"	J
s <sub>1</sub>	16	#4	2'-3"	J
Reinforcement Bars				Lbs 4270
Class X Concrete				Cu Yds 27.7



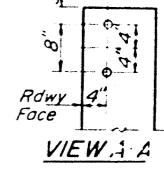
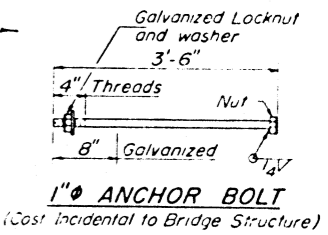
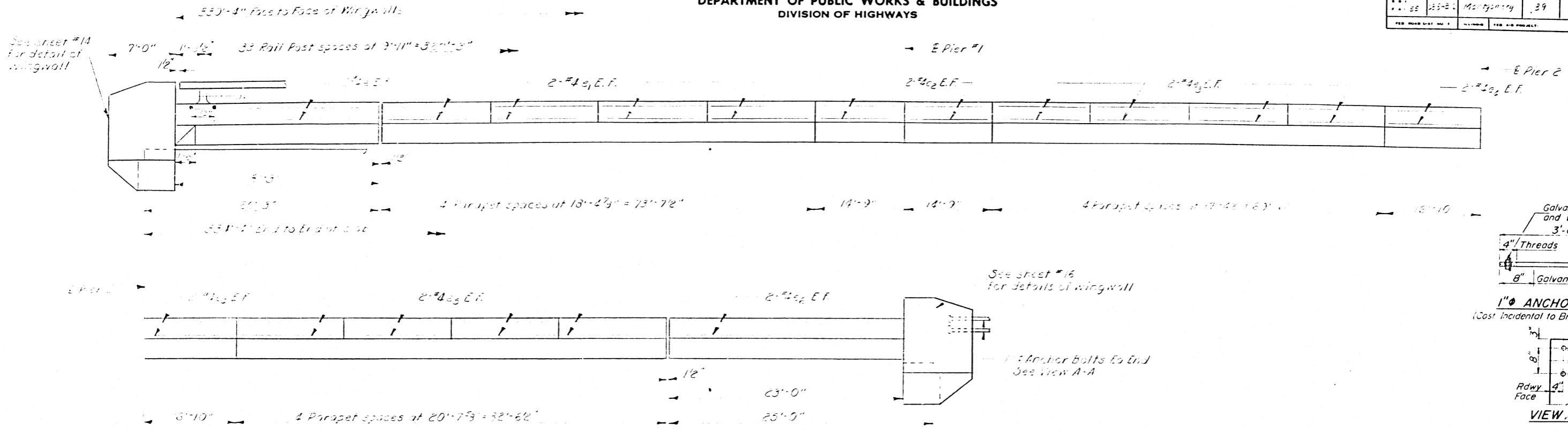
\* Parapet Reinforcement and Class X Concrete are billed on sheet #2  
For placement and details of bars m thru m<sub>2</sub> and s thru s<sub>1</sub>, see sheet #2

DESIGNED	APPROVED 1970
CHECKED	
DRAWN	
CHECKED	

APPROVED Richard H. Galterman



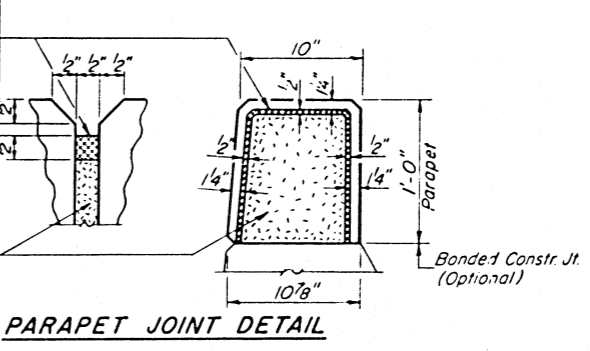
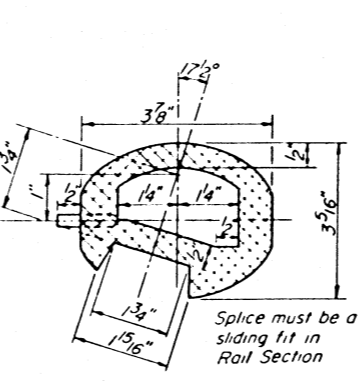
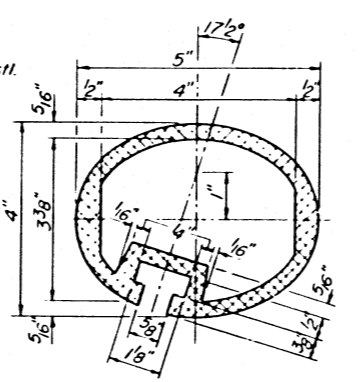
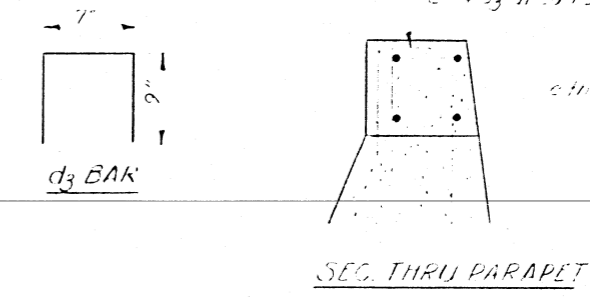
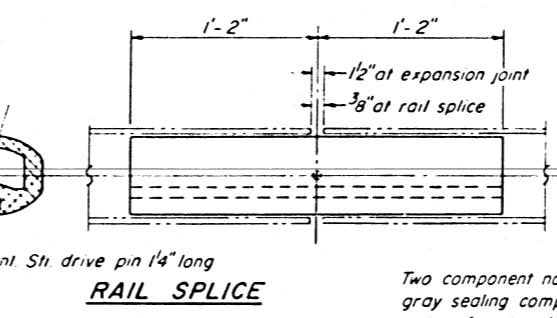
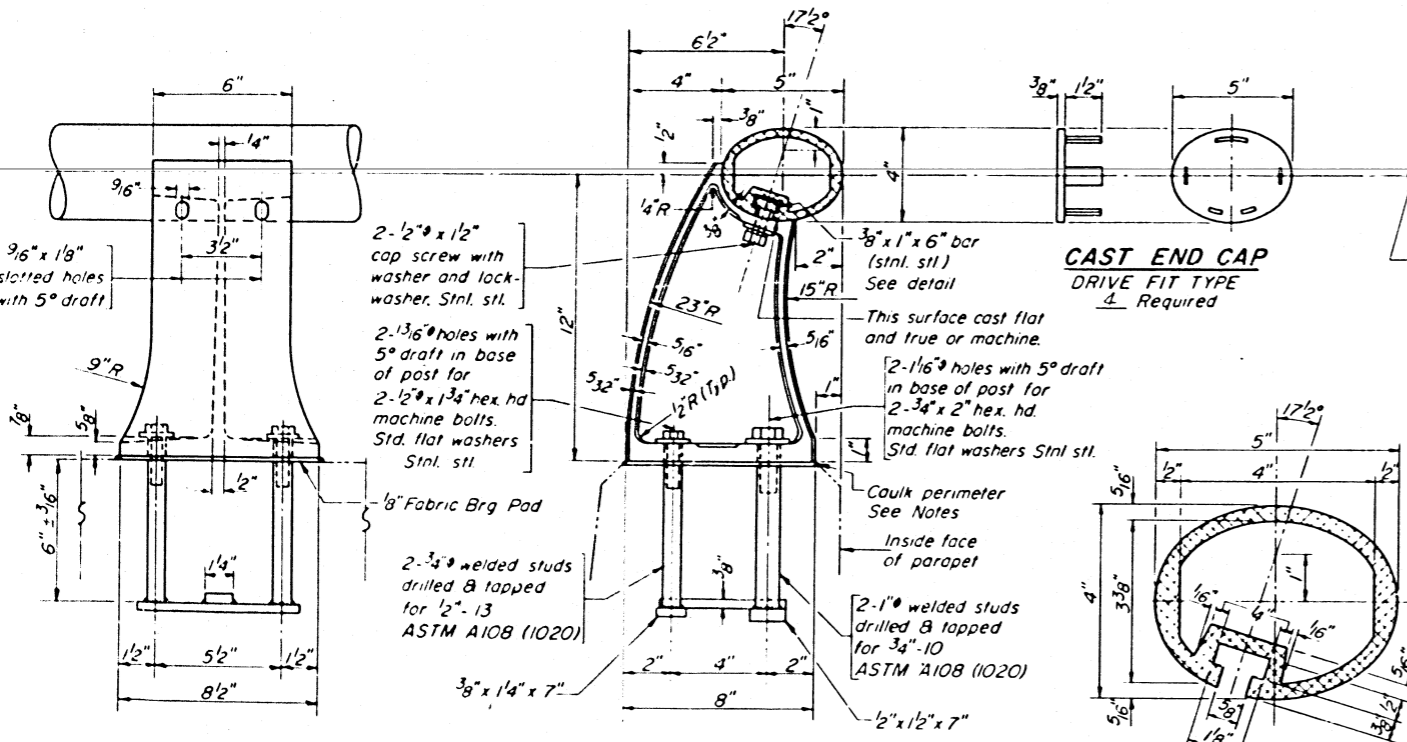
EAST APPROACH  
SUPERSTRUCTURE  
FAI PT. 55 SEC. 68-5 NB-2  
MONTGOMERY COUNTY  
STATION 839+39.00



See sheet #16  
for details of wingwall

1" Anchor Bolts To End  
See View A-A

ELEVATION



**PARAPETS & RAILS  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
e	8	#4	18'-0"	
e	32	#4	18'-1"	
e	15	#4	16'-6"	
e	32	#4	17'-1"	
e	15	#4	16'-7"	
e	32	#4	20'-4"	
e	8	#4	22'-9"	
e	15	#4	2'-1"	
Reinforcement Bars	Lbs.		1950	
Class X Concrete	Cu Yds		21.7	
Aluminum Railing	Lin Ft		666	

**NOTES:**

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

Provide 1-8" and 2-16" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade-high spots shall be ground and low spots shimmed.

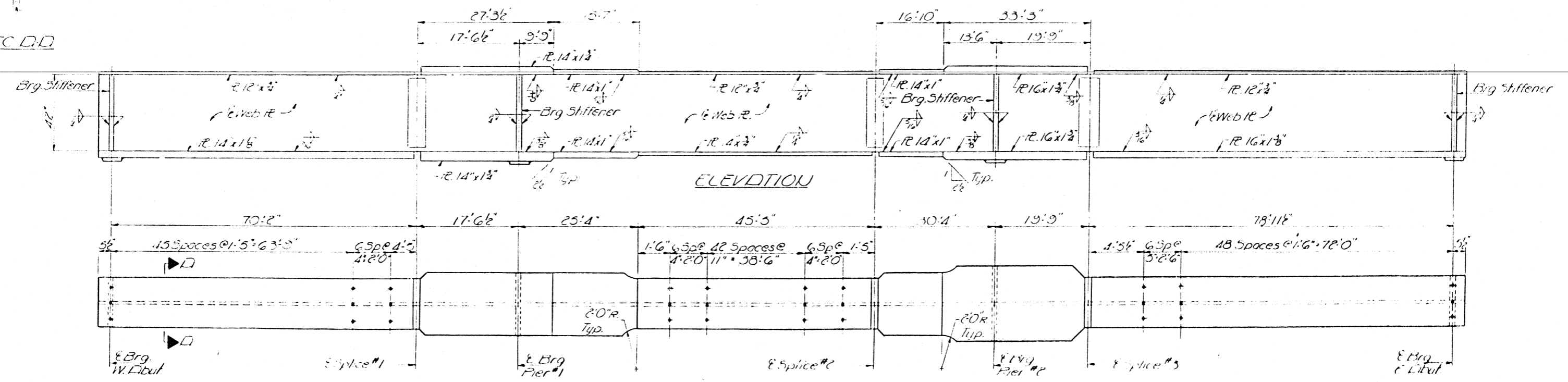
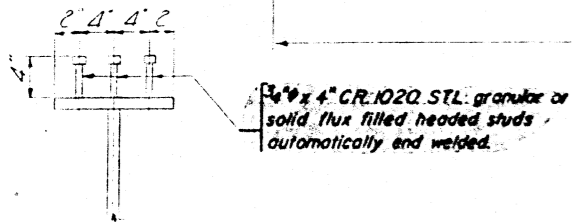
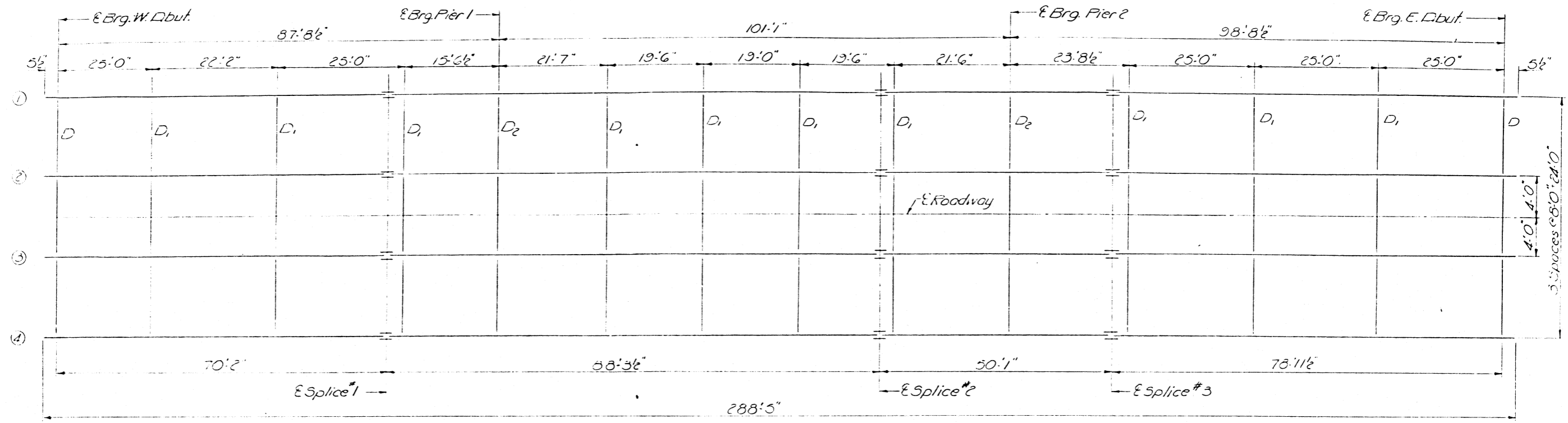
Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.

**ALUMINUM RAILING**  
F.A.I. RI 55 SEC 68-511E-2  
MONTGOMERY COUNTY  
STATION 839+39.00

DESIGNED: [Signature]  
CHECKED: [Signature]  
DRAWN: [Signature]  
CHECKED: [Signature]

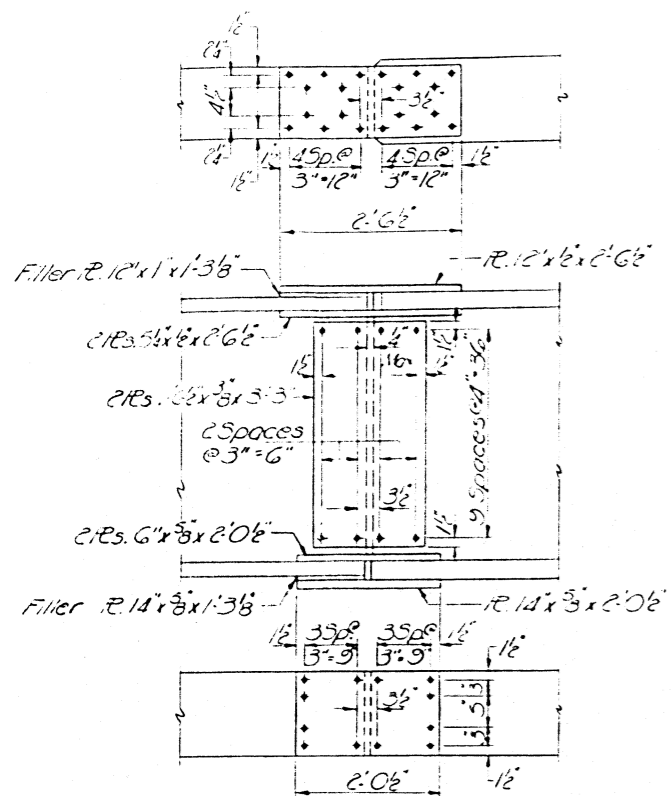
APPROVED: [Signature]  
APPROVED: [Signature]  
APPROVED: [Signature]



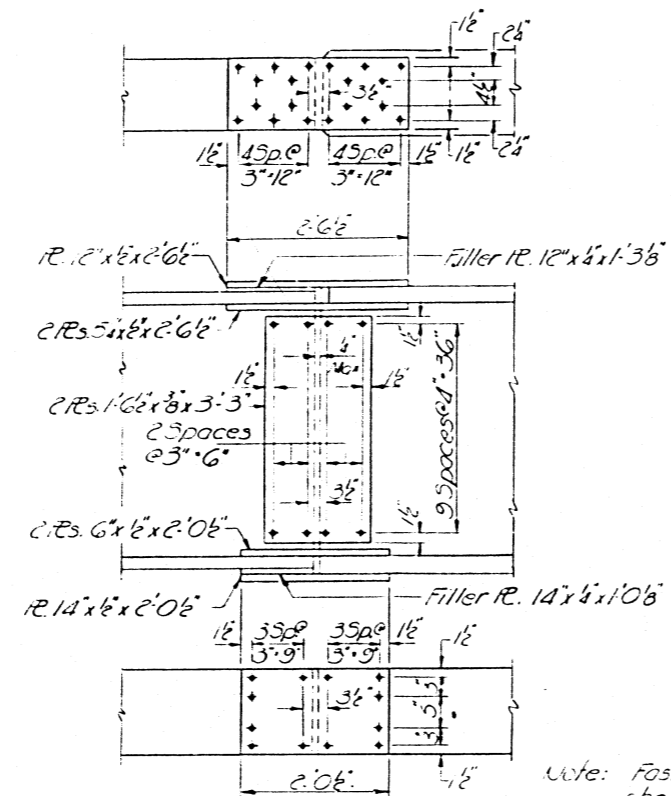
DESIGNED: [Signature]  
CHECKED: [Signature]  
DRAWN: [Signature]  
EXAMINED: [Signature] APR 23 1977  
PASSED: [Signature]  
APPROVED: [Signature] Richard J. Glotterman

PLAN  
Showing Stud Spacing

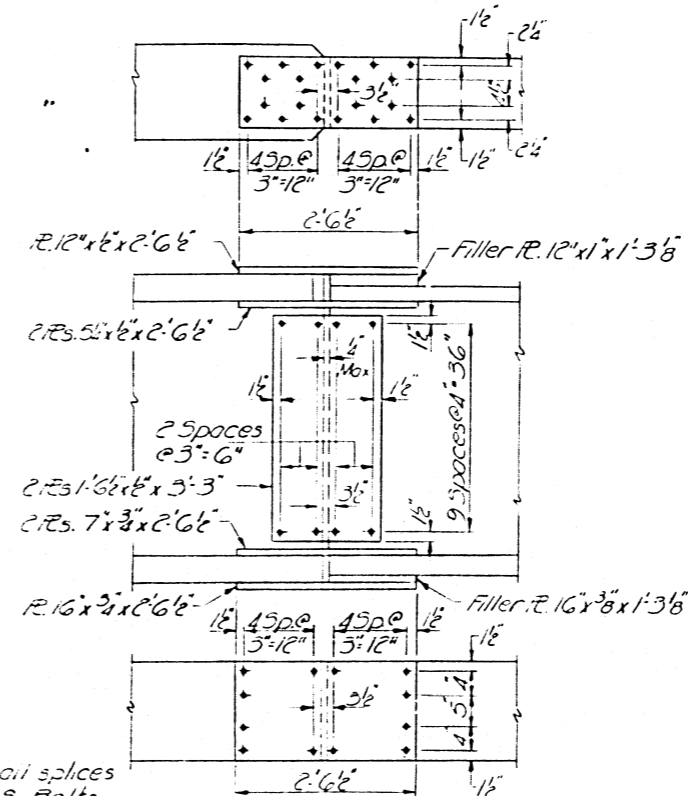
MANUFACTURED STEEL  
LITTLETON STEEL SHED  
MONTICOMERY COUNTY  
511 839-3900



FIELD SPLICE #1



FIELD SPLICE #2



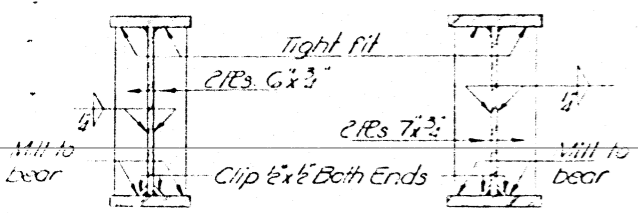
FIELD SPLICE #3

Note: Fasteners for all splices shall be 3/4" H.S. Bolts

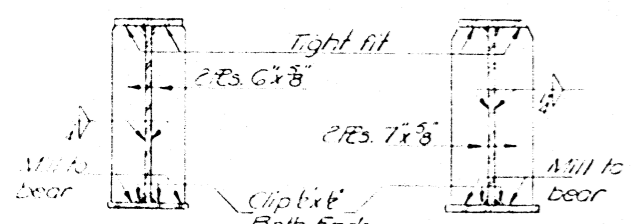
TOP OF WEB ELEVATIONS

Location	Elevation	Elevation
W. Abut.	672.50	672.60
Field Splice #1	673.17	673.27
Brig. Pier #1	673.23	673.33
Field Splice #2	673.65	673.75
Brig. Pier #2	673.63	673.73
Field Splice #3	673.69	673.79
Brig. E. Abut.	673.42	673.52

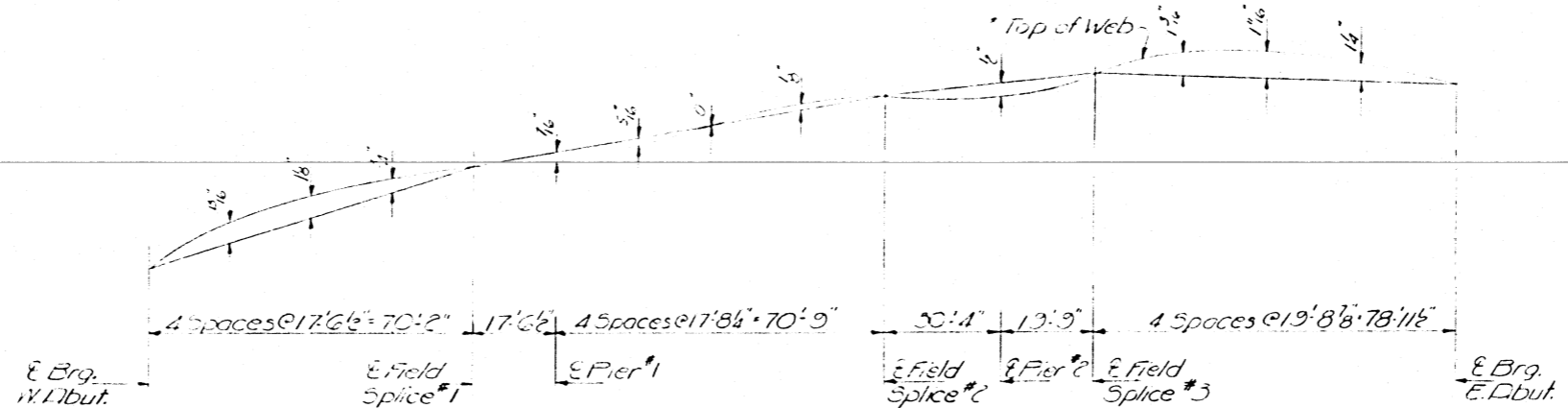
\* For Fabrication only



PIER #1 BEDRING STIFFENERS



WEST ABUT. BEDRING STIFFENERS



COMBER DIAGRAM

\* For Top of Web Elevations of Splices & Bearings use table on this sheet

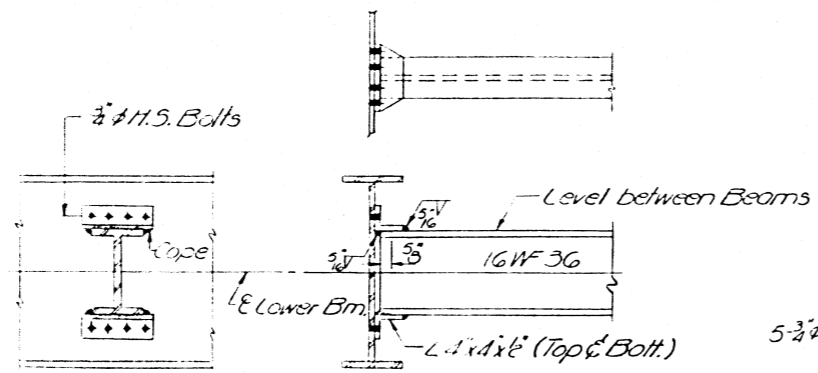
INTERIOR GIRDER REACTION TABLE

Reaction	W. Abut.	Pier 1	Pier 2	E. Abut.
RE (K)	44.69	136.24	152.46	52.04
RL (K)	34.31	52.36	55.07	34.89
Imp. (K)	8.06	11.94	12.23	1.77
Total (K)	87.06	200.54	219.76	88.70

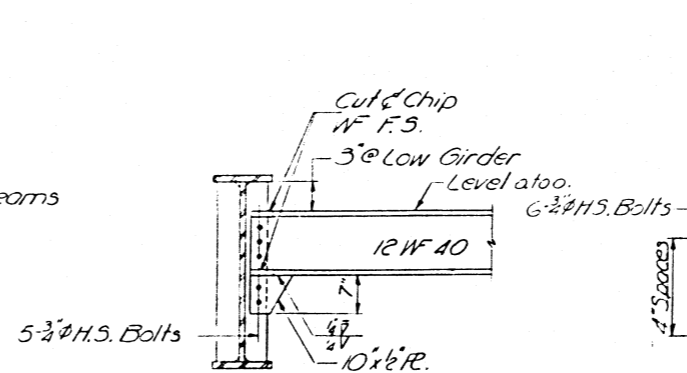
INTERIOR GIRDER MOMENT TABLE

Moment	0.45sp1	Pier 1	0.55sp2	Pier 2	0.65sp3
I <sub>s</sub> (in <sup>4</sup> )	14048	26534	11974	29884	13988
I <sub>c</sub> (in <sup>4</sup> )	55142	28478			42282
S <sub>s</sub> (in <sup>3</sup> )	743	1166	531	1314	946
S <sub>c</sub> (in <sup>3</sup> )	1006		783		1273
f <sub>s</sub> (ksi)	0.972	1.330	0.972	1.345	1.003
M <sub>s</sub> (K)	534	1196	210	1493	711
f <sub>s2</sub> (ksi)	8.62	12.31	4.74	13.64	9.01
S <sub>2</sub> (in <sup>3</sup> )	0.358		0.358		0.358
M <sub>s2</sub> (K)	215		144		283
M <sub>E</sub> (K)	601	475	531	533	694
M <sub>imp</sub> (K)	136	108	120	120	151
Total (K)	952	583	795	653	1134
f <sub>s total</sub> (ksi)	11.36	6.00	12.18	5.96	10.63
VR (K)	19.98	18.31	16.92	19.60	19.11
VR (K)	38.53	48.31	39.44	45.34	39.61

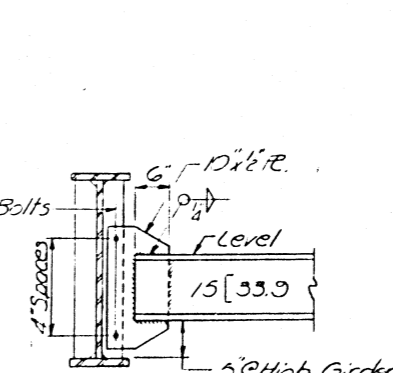
I<sub>s</sub> and S<sub>s</sub> are the moment of inertia and section modulus of the steel section.  
I<sub>c</sub> and S<sub>c</sub> are the moment of inertia and section modulus of the composite section used in computing f<sub>s</sub>.  
VR is the maximum impact shear range.



INTERIOR DIAPHRAGM D1 (30 Required)



DIAPHRAGM D (6 Required)



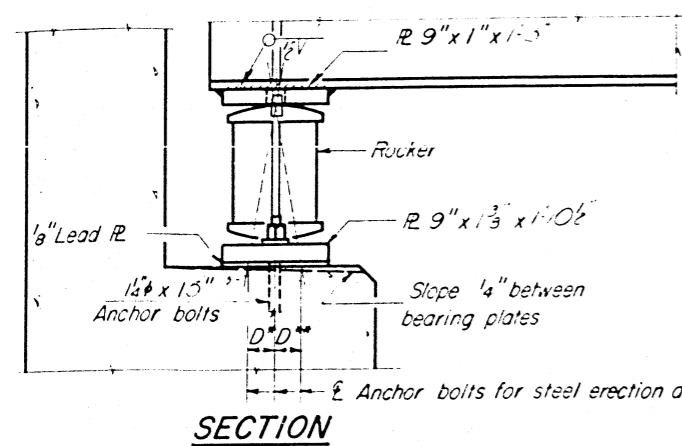
DIAPHRAGM D2 (6 Required)

DESIGNED	10/25/19
CHECKED	
DRAWN	
CHECKED	

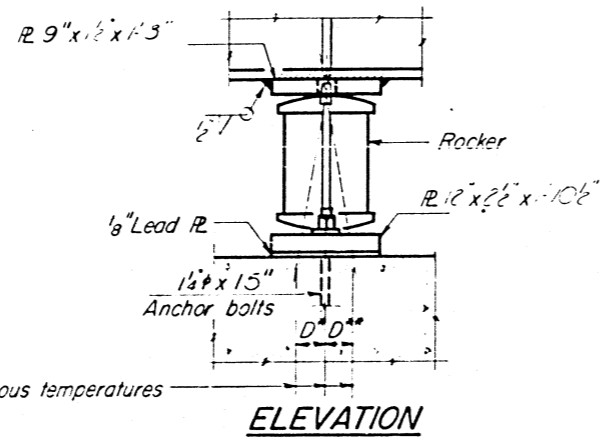
EXAMINED	
PASSED	
APPROVED	Richard J. Altman

STRUCTURAL STEEL DETAILS  
FDL RT. 55 SEC. 5HB-2  
MONTGOMERY COUNTY  
STA. 839+39.00

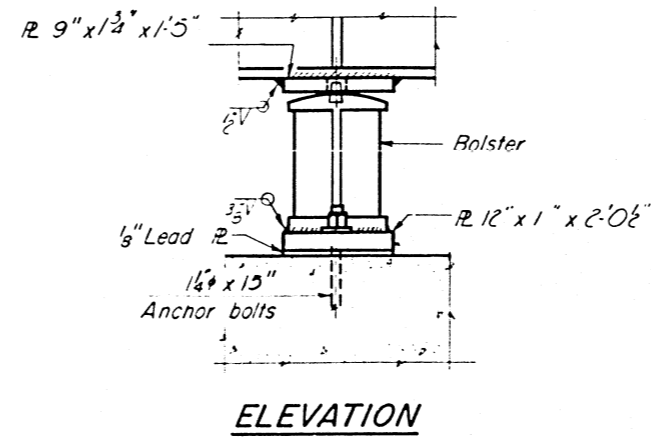




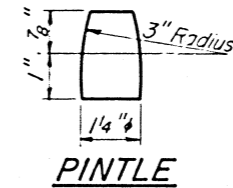
**SECTION**



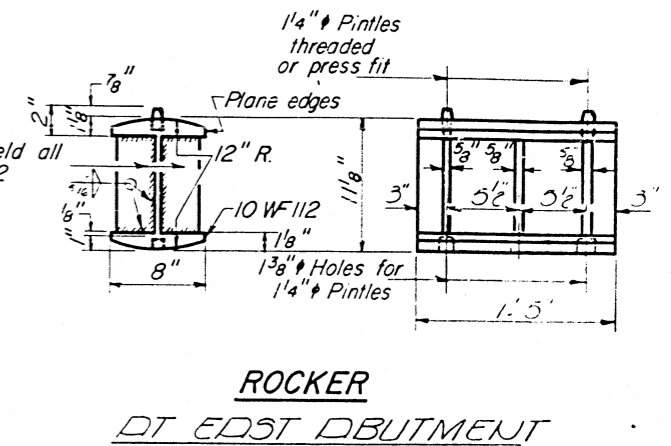
**ELEVATION**



**ELEVATION**

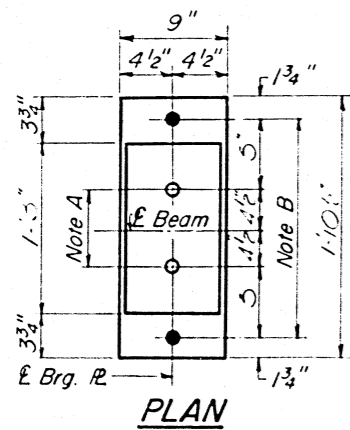


**PINTLE**



**ROCKER**

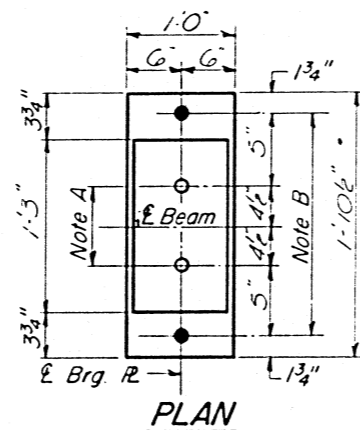
**DT EAST ABUTMENT**



**PLAN**

**AT WEST ABUTMENT**

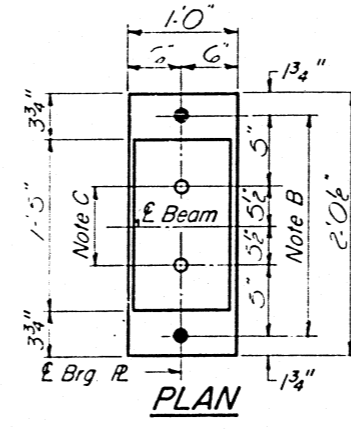
**NOTE A**  
1 3/8" Holes - 1" deep in top R for pintles Thread or press fit pintles into bottom R.



**PLAN**

**AT PIER #1**

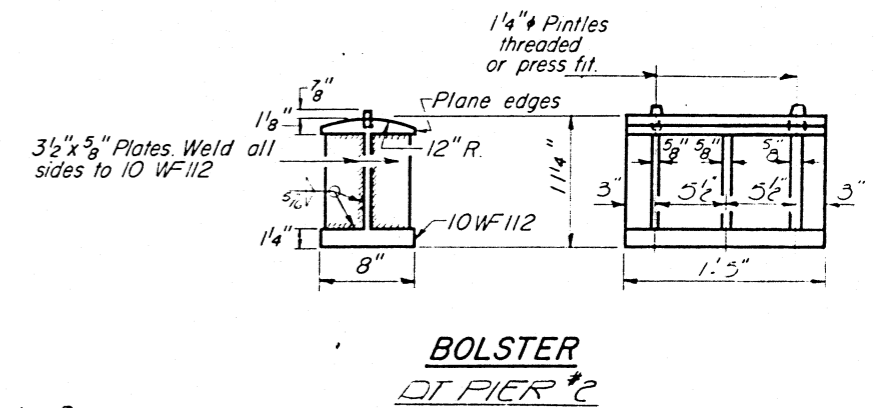
**NOTE B**  
1 1/2" Holes for 1 1/4" anchor bolts. 2 1/2" x 2 1/2" x 5/16" R. Washers under nut.



**PLAN**

**AT PIER #2**

**NOTE C**  
1 3/8" Holes 1" deep in top R only for 1 1/4" pintles.



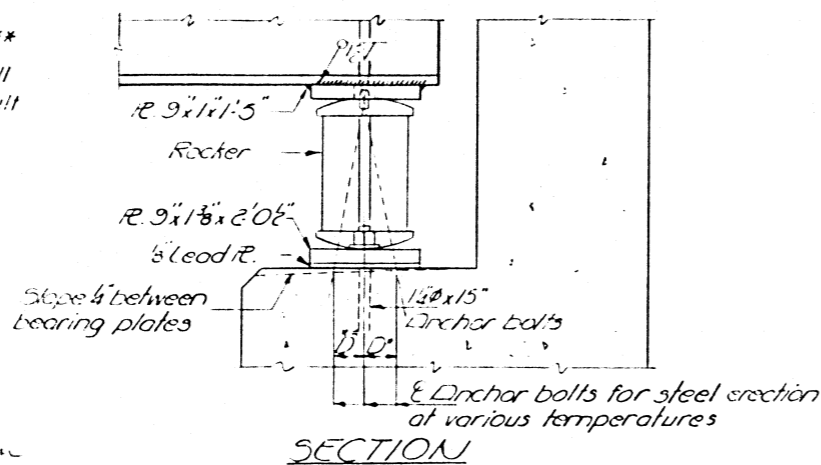
**BOLSTER**

**DT PIER #2**

**NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.**

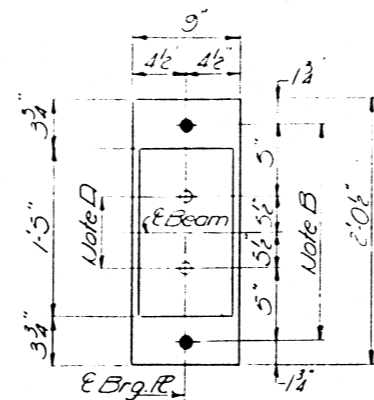
- a) D\* (Side of brg away from fixed brg)  
D\* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50°F
- D\*\* (Side of brg toward fixed brg)  
D\*\* = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50°F

b) After beams have been erected and dimensions D\* or D\*\* determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

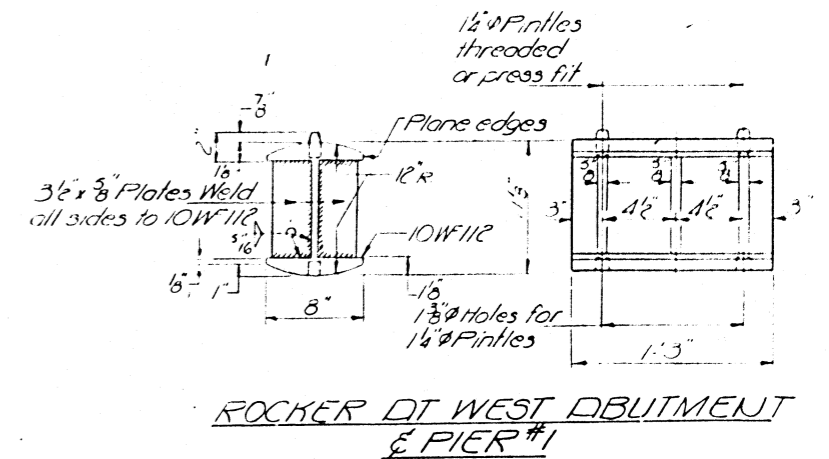


**SECTION**

**DT EAST ABUTMENT**



**PLAN**

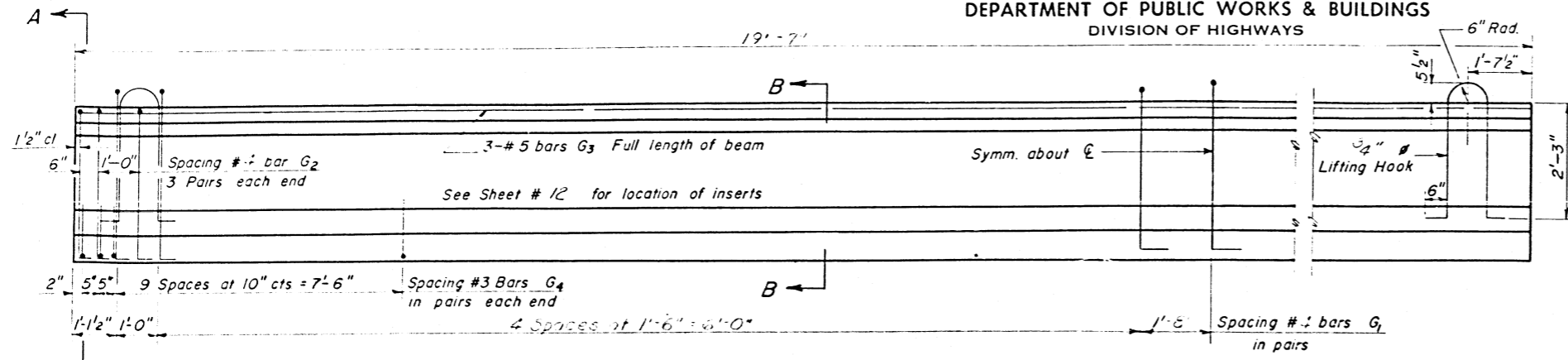


**ROCKER DT WEST ABUTMENT & PIER #1**

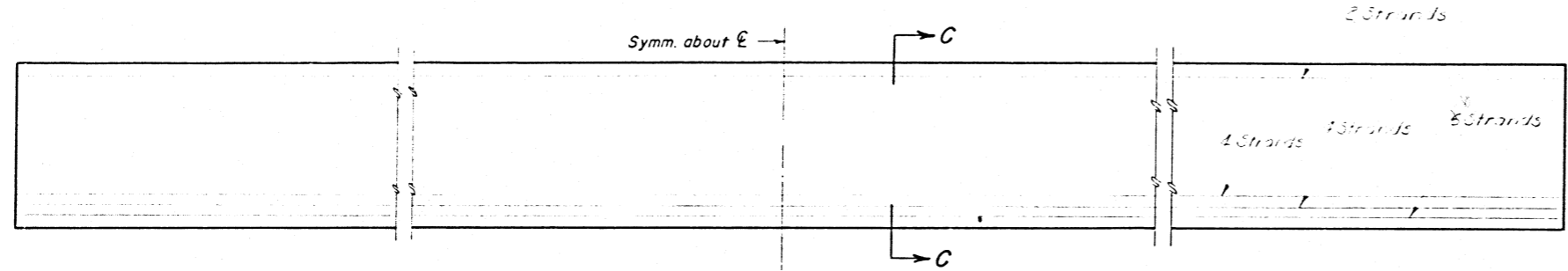
DESIGNED	D.A.S.
CHECKED	L.S.
DRAWN	LD
CHECKED	P.C.A.

EXAMINED	10/23/65
PASSED	W.E. Baumgartner
APPROVED	Richard H. Gitterman

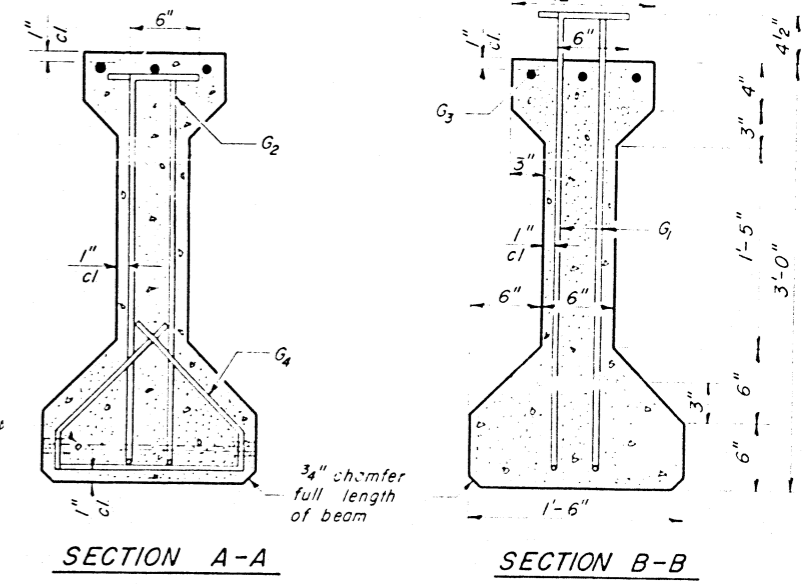
**BEARING DETAILS**  
F.D.I. RT. 55 SEC. 5 NB-2  
MONTGOMERY COUNTY  
STD. 839+39.00



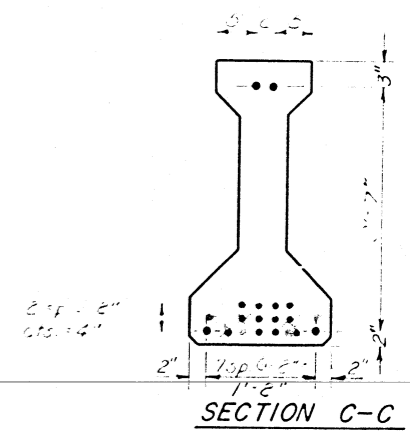
**ELEVATION OF BEAMS**  
Showing Reinforcement & Dimensions



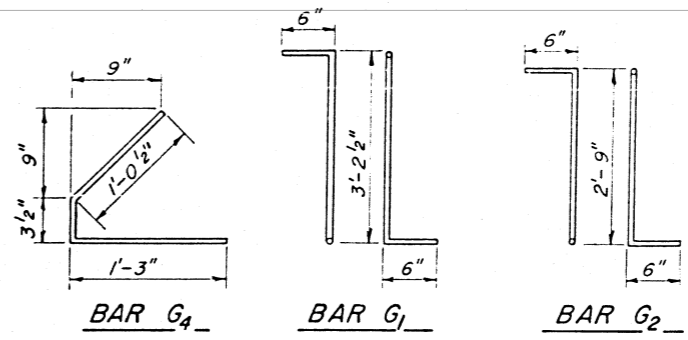
**ELEVATION OF BEAMS**  
Showing Prestressing Steel



**SECTION A-A**      **SECTION B-B**



**SECTION C-C**



**\* BAR LIST**

Bar	No.	Size	Length	Shape
G1	23	#4	4'-2 1/2"	TL
G2	12	#4	3'-9"	TL
G3	3	#5	19'-4"	—
G4	48	#3	2'-7"	L

\* For use only

**NOTES**

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 36 In."

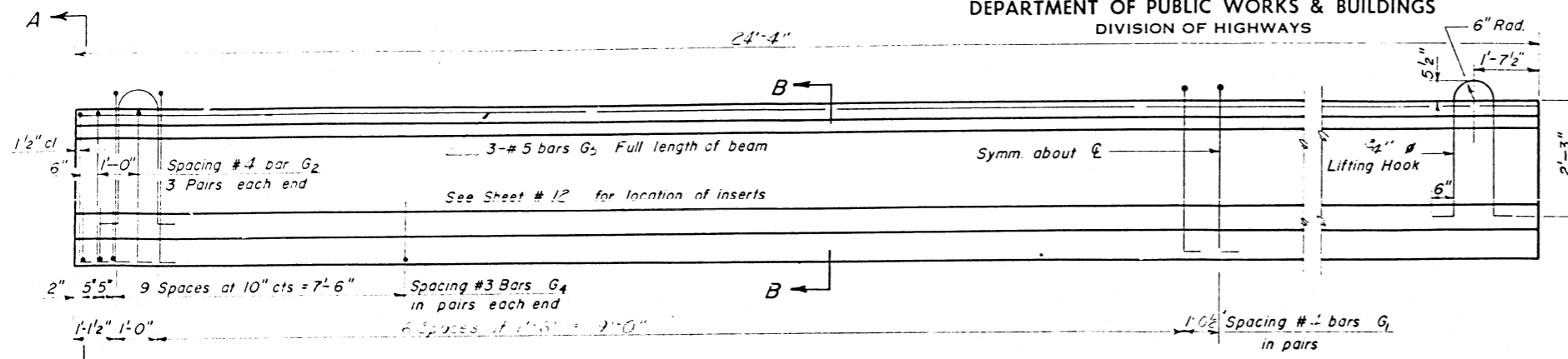
**BILL OF MATERIAL**

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin Ft	51.8

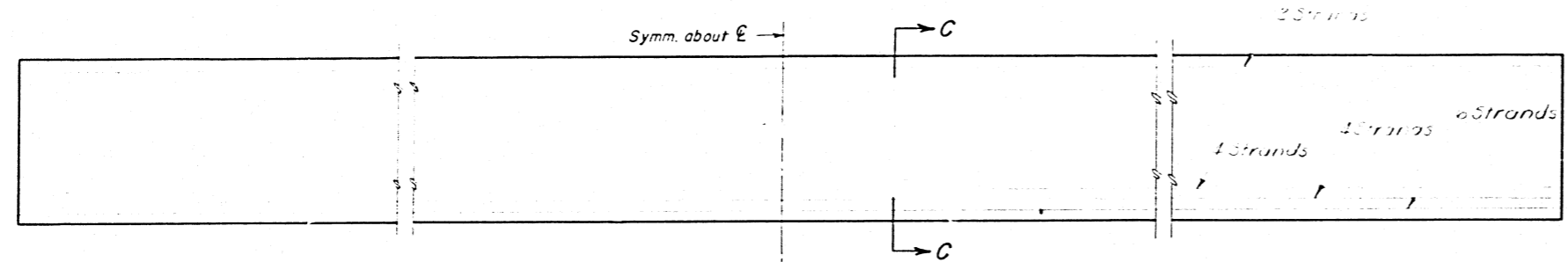
Prestressing Steel shall have a nominal diameter of 7/16".  
Inserts for 3/4" threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.  
Steel for lifting hooks shall be ASTM A 306 1/2 1/2 70-80

WEST APPROACH BEAMS  
FAI RT 55 SEC 68 5118 2  
MONTGOMERY COUNTY  
STATION 839+32.00

DESIGNED	APR. 23 1972
CHECKED	
DRAWN TB Fuller	
CHECKED	
EXAMINED	
PASSED	
APPROVED	

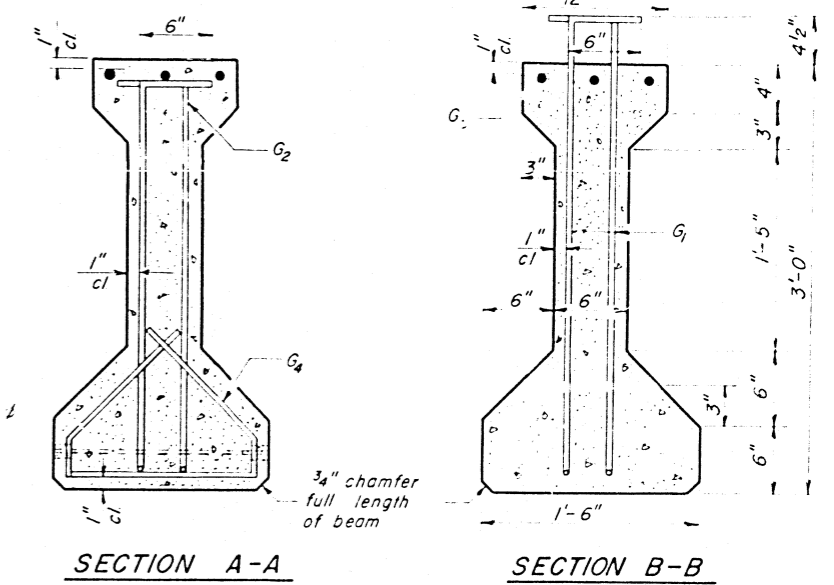


**ELEVATION OF BEAMS**  
Showing Reinforcement & Dimensions



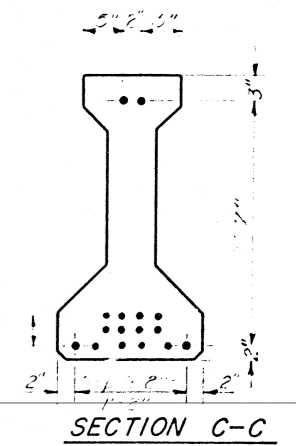
**ELEVATION OF BEAMS**  
Showing Prestressing Steel

Inserts for 3/4" Threaded Rod

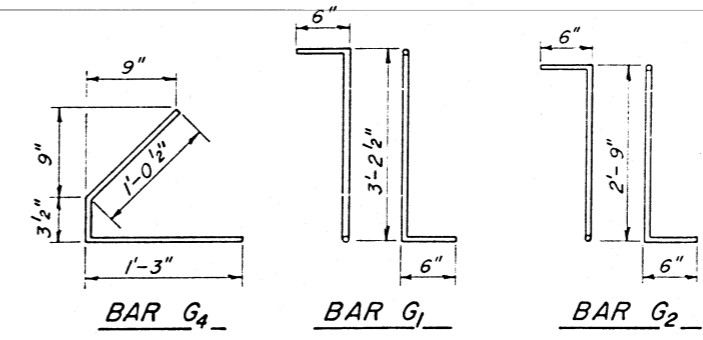


**SECTION A-A**

**SECTION B-B**



**SECTION C-C**



**\*BAR LIST**

Bar	No.	Size	Length	Shape
G1	34	#4	4'-2 1/2"	7L
G2	12	#4	3'-9"	7L
G4	48	#3	2'-7"	---
G5	3	#5	29'-1"	---

\* For use only

**NOTES**

All inserts and threaded rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per lineal foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 36 In."

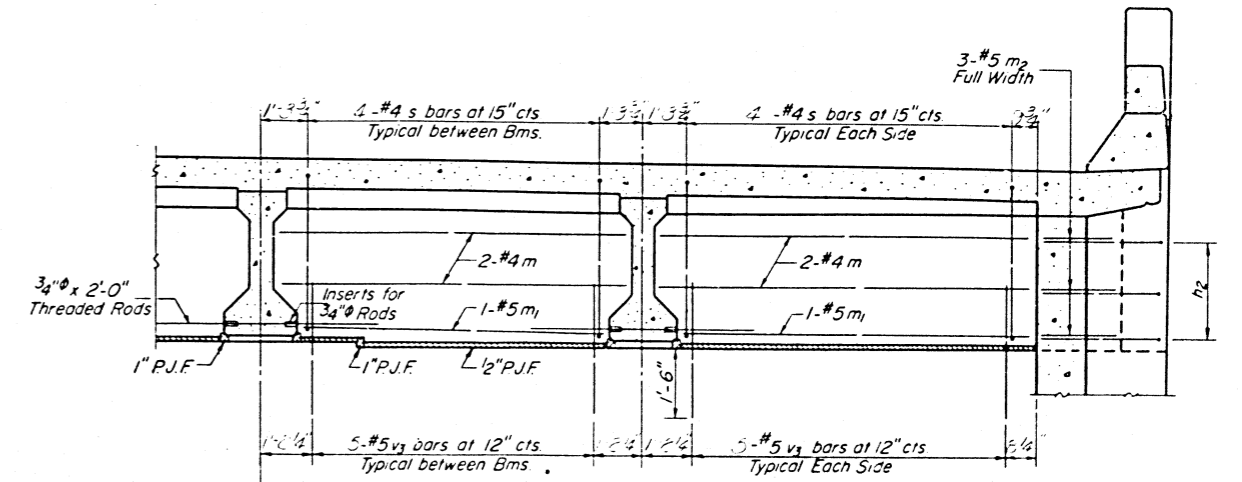
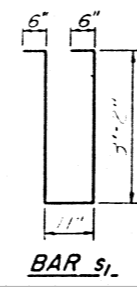
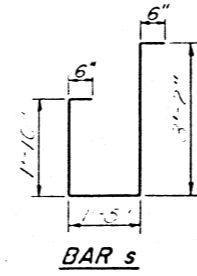
**BILL OF MATERIAL**

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams, 36"	Lin Ft	36.0

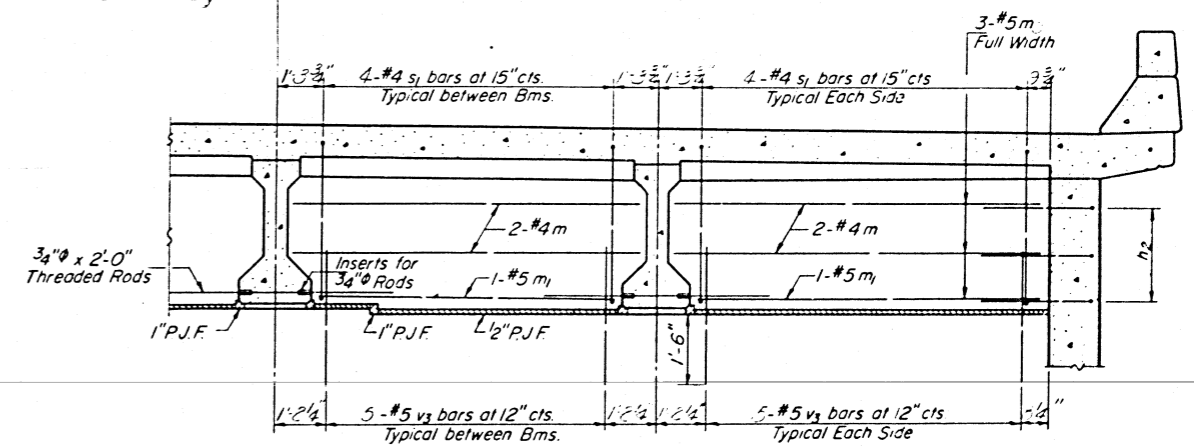
Prestressing Steel shall have a nominal diameter of 7/16".  
Inserts for 3/4" threaded rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.  
Steel for lifting hooks shall be ASTM A-306 Gr. 58 70-80

EAST APPROACH BEAMS  
FAI RT. 55 SEC 68 5115-2  
JEFFERSON COUNTY  
STATION 839+32.00

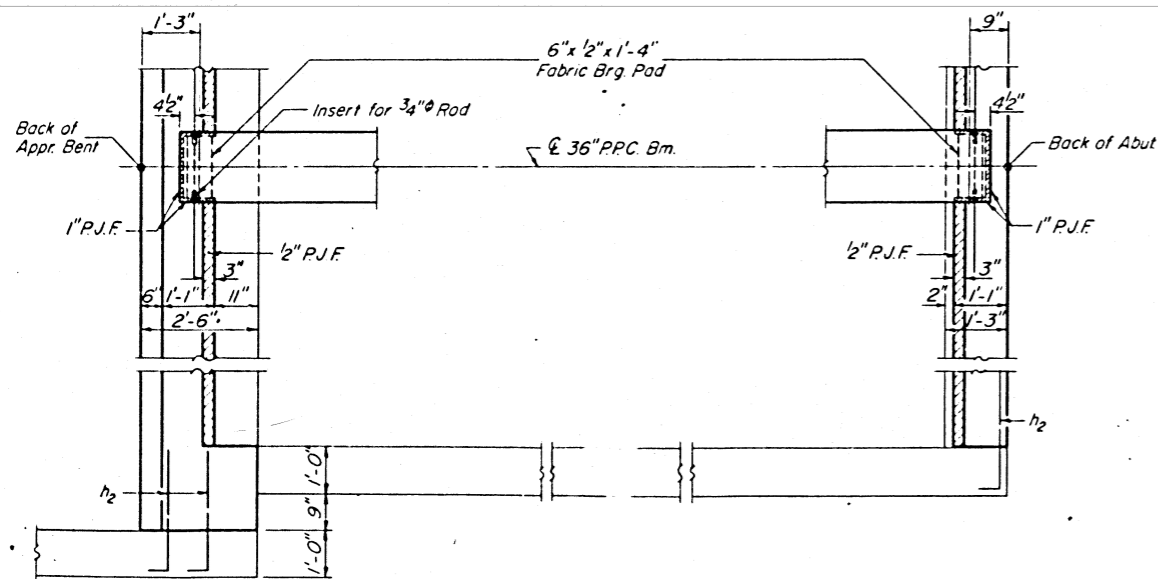
DESIGNED: [Signature]  
CHECKED: [Signature]  
DRAWN: TB Fuller  
APPROVED: Richard H. Gallerman  
EXAMINED: [Signature] APR 23 1963  
PASSED: [Signature]



DIAPHRAGM AT APPROACH BENT



DIAPHRAGM AT ABUTMENT



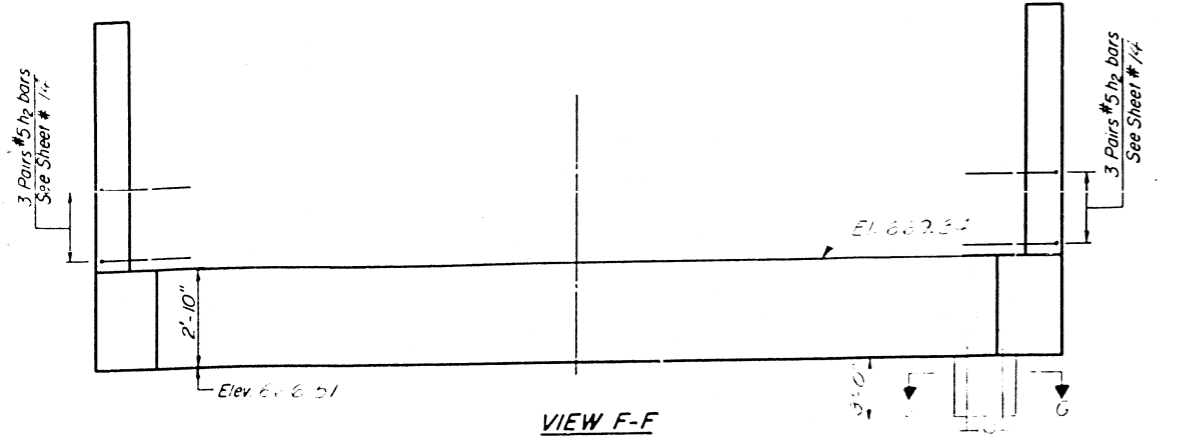
PARTIAL PLAN

DESIGNED	DA [Signature]
CHECKED	[Signature]
DRAWN	[Signature]
CHECKED	[Signature]

EXAMINED	[Signature]
PASSED	[Signature]
APPROVED	[Signature]

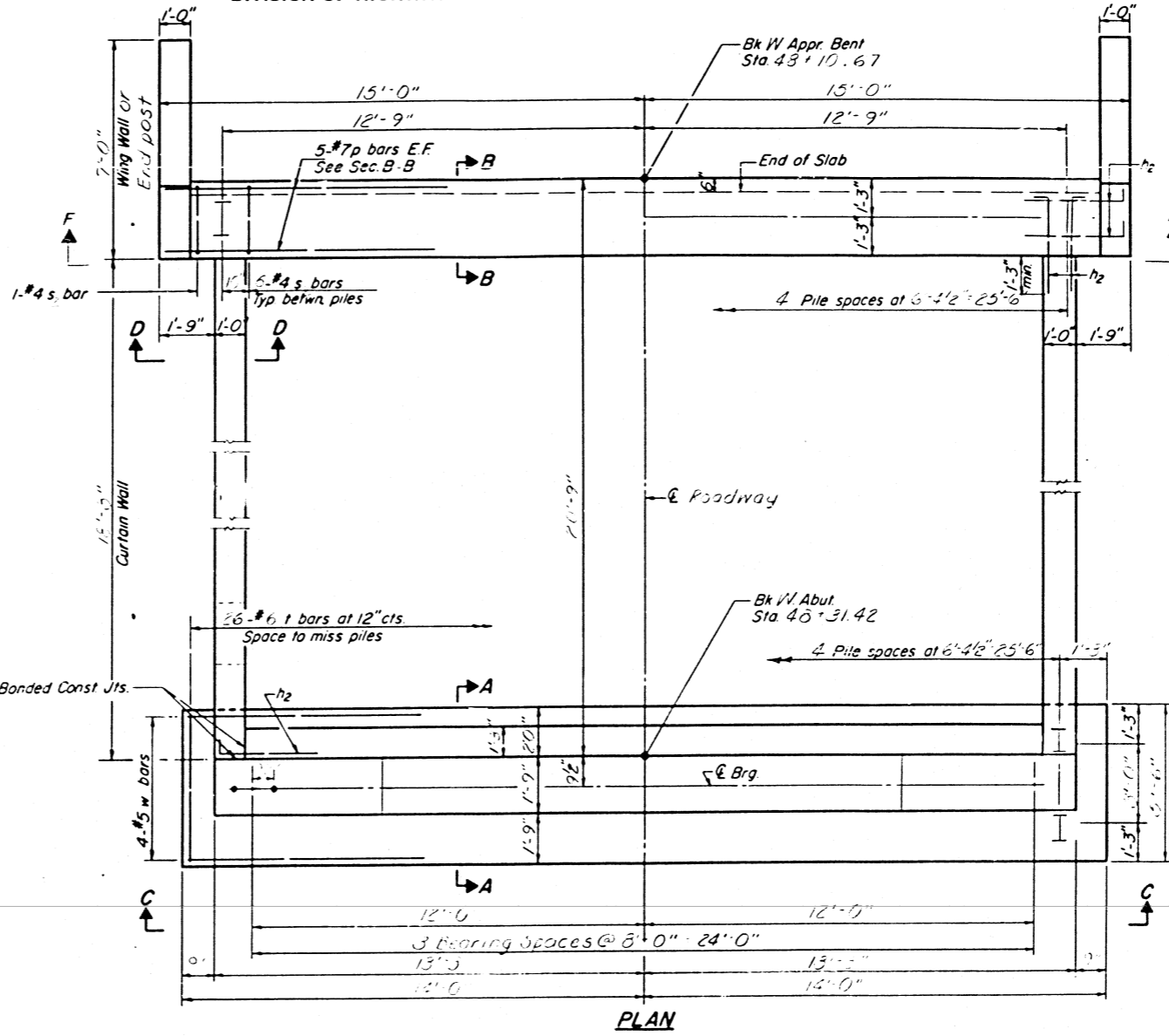
NOTES:  
Bars s thru s1 and m thru m3 are billed with Approach Slab Bill of Material on sheets #4 & 5  
Bars h2 & v3 are billed with Abutment Bill of Material on sheets #13 & 15  
See sheets 4 & 5 for sections thru abutment and approach bent diaphragms.

APPROACH DETAILS  
FAIRFAX SEC 68-5112-2  
MONTGOMERY COUNTY  
STATION 839+31.07

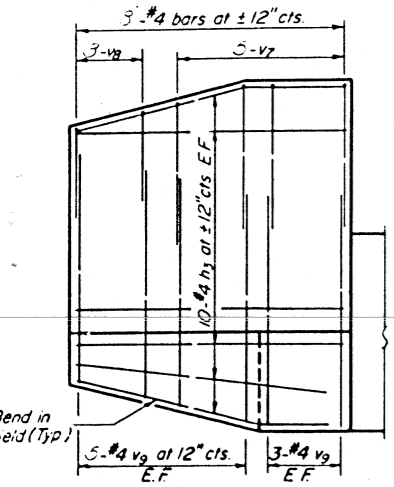


VIEW F-F

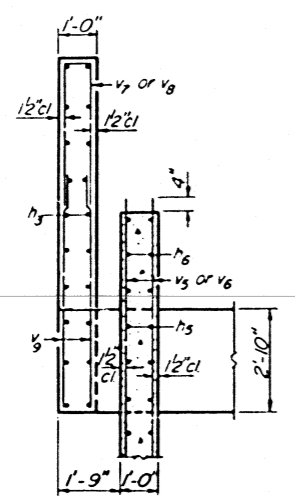
For pile location at station see Sec. G-5 Ch. #14



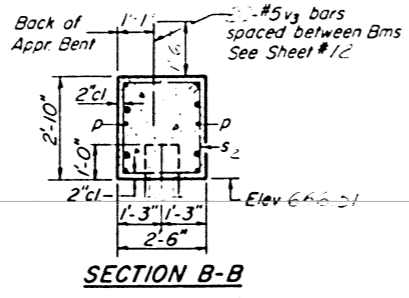
PLAN



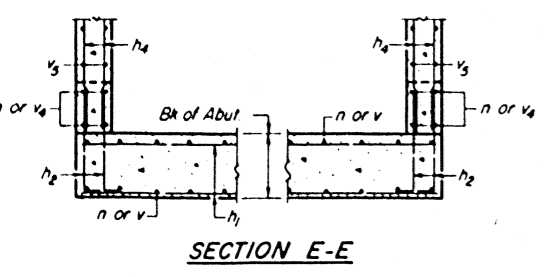
WING WALL REINFORCEMENT



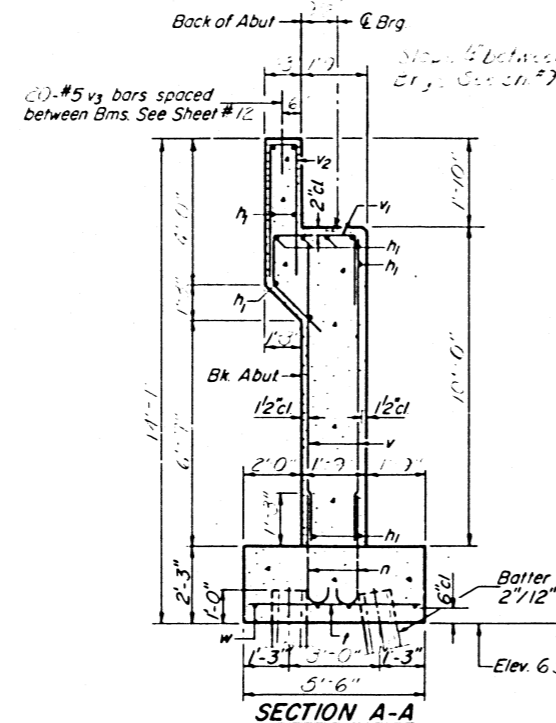
SECTION D-D



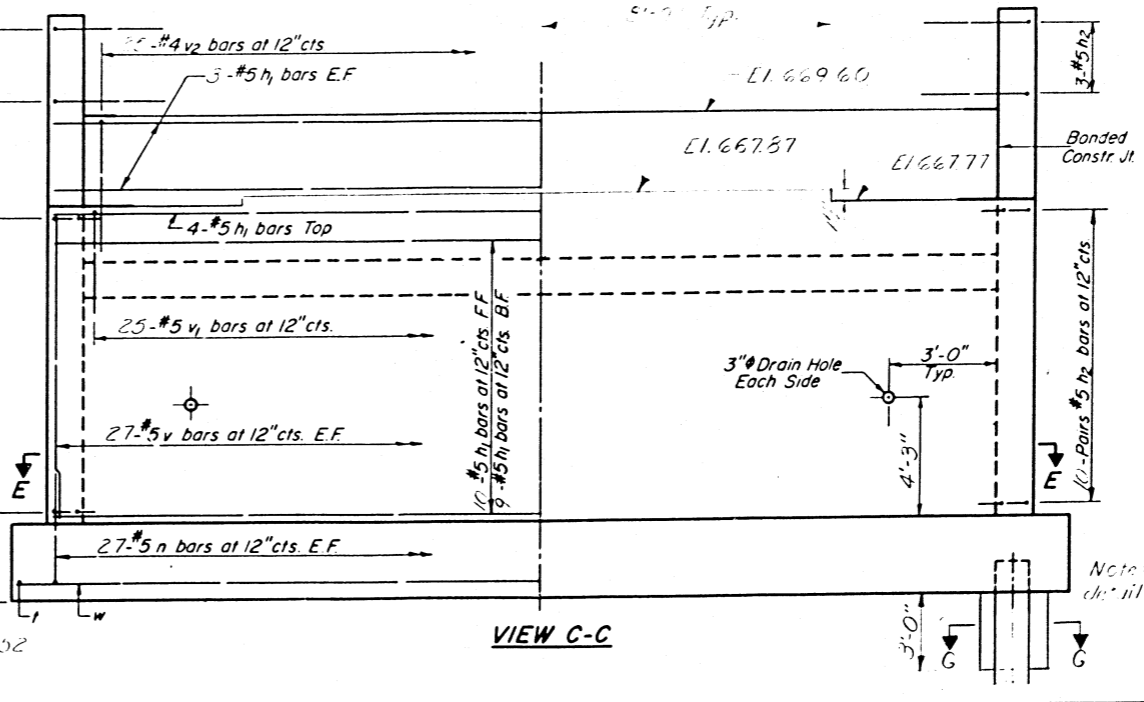
SECTION B-B



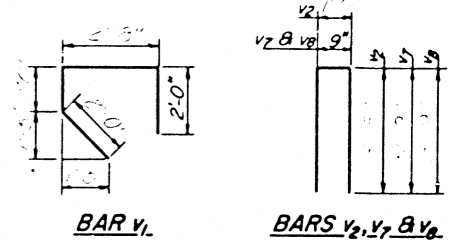
SECTION E-E



SECTION A-A



VIEW C-C



BILL OF MATERIAL

Bar	No	Size	Length	Shape
h1	20	#5	3.2	—
h2	71	#5	3.2	J
h3	10	#4	8.7	—
h4	12	#5	16.3	—
h5	12	#5	13.0	—
h6	12	#5	20.0	—
h7	2	#5	1.5	—
n	66	#5	3.7	—
p	10	#7	2.7	—
s1	26	#4	10.1	D
s2	26	#4	10.1	—
v	34	#5	9.2	—
v1	25	#5	8.4	J
v2	25	#5	8.4	—
v3	12	#5	3.9	—
v4	12	#5	14.2	—
v5	26	#5	13.2	—
v6	24	#5	5.7	—
v7	10	#4	12.3	—
v8	6	#4	8.3	—
v9	32	#4	4.7	—
w	4	#5	27.7	—
Reinforcement Bars		Lbs	50.5	
Class X Concrete		Cu Yds.	6.0	
Test piles (BEP-36)		Each	1	

BAR h2

BAR s2

BAR n

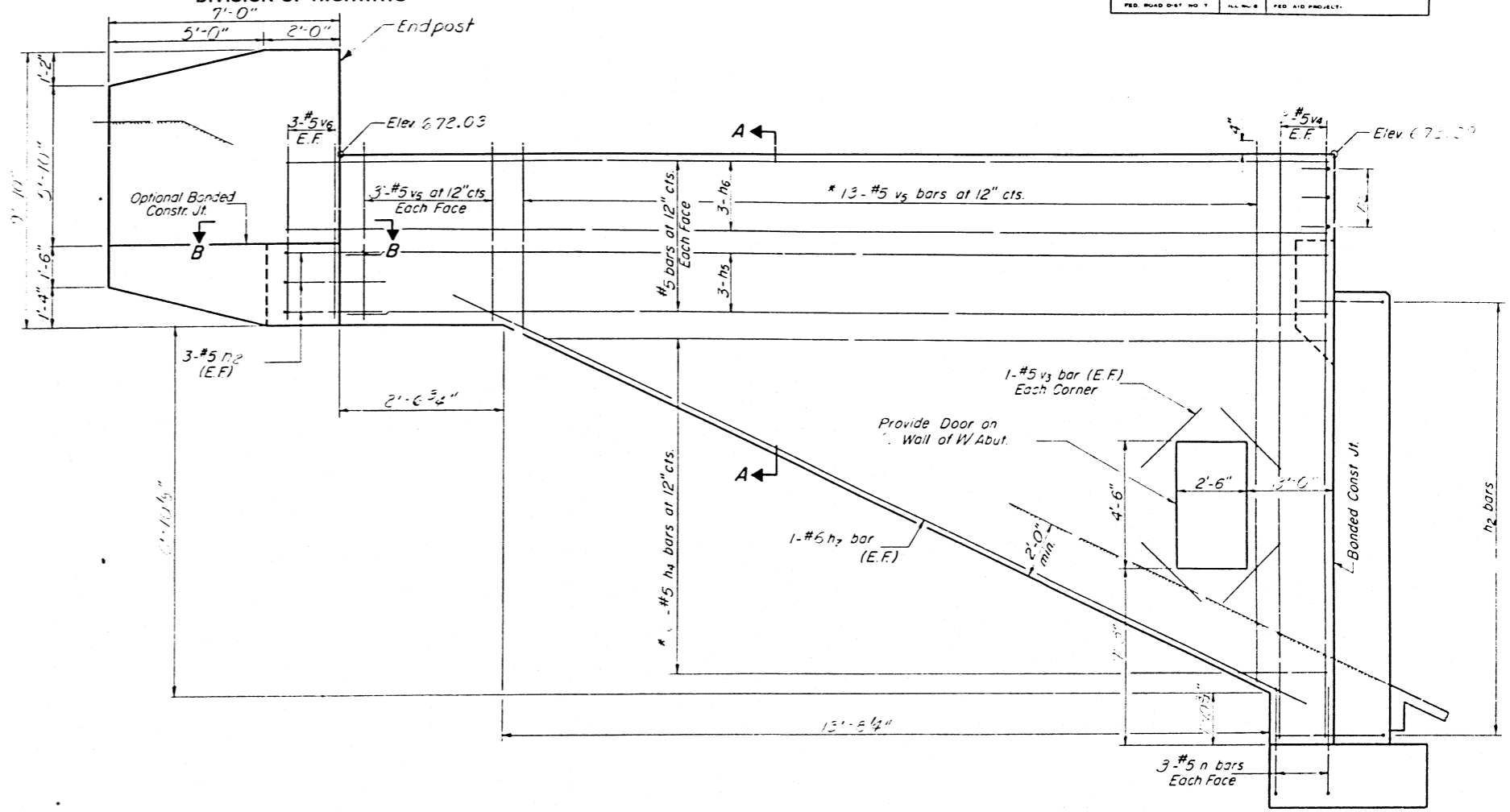
Note: for pile measurement see Sec. G-5 Ch. #14  
WEST ABUTMENT  
EAT RT 55 JLG 6/24/69  
STATION 1183+37.50

DESIGNED: [Signature]  
EXAMINED: [Signature]  
CHECKED: [Signature]  
DRAWN: [Signature]  
APPROVED: Richard H. Guttman

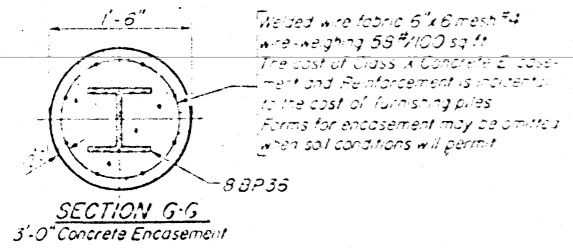
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
155	SEC. 63	MONTGOMERY	31	21

SHEET NO. 11  
17 SHEETS



SIDE ELEVATION

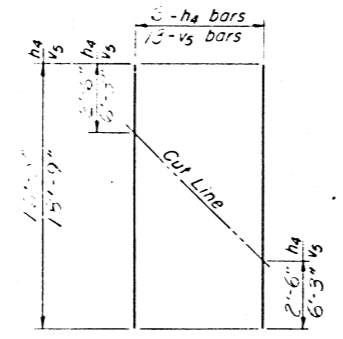


**APPR. BENT - PILE DATA**

Type Steel 50 EP 35  
Capacity Drive to refusal  
Est. Length 36'  
No. Reqd. 5

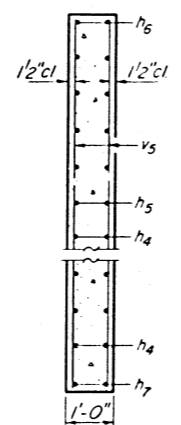
**ABUT. - PILE DATA**

Type Steel 50 EP 35  
Capacity Drive to refusal  
Est. Length 36'  
No. Reqd. 2 - 1 Bent pile.

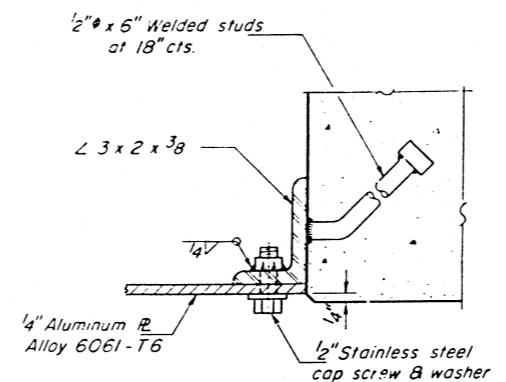


FIELD CUTTING DIAGRAM

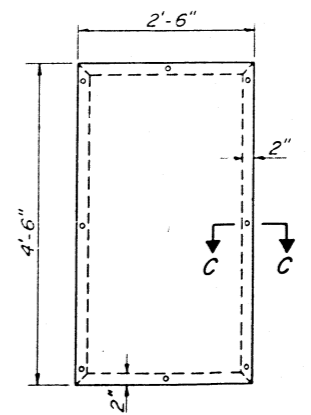
\* Order h4 & v5 bars full length  
Cut to fit as shown and use  
remainder of bars in other face



SECTION A-A



SECTION C-C



DOOR ELEVATION  
(Cost of door and frame are incidental)

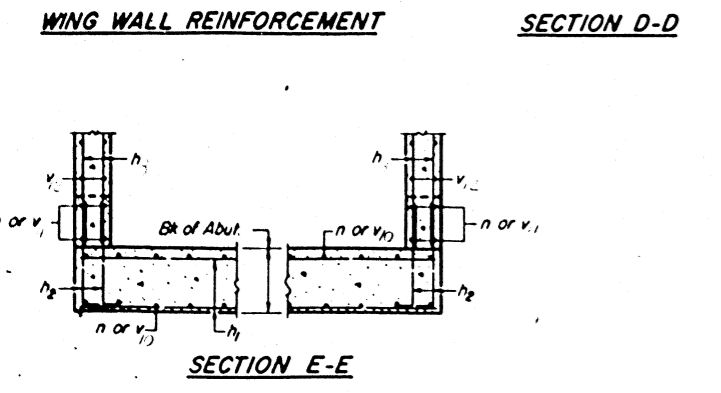
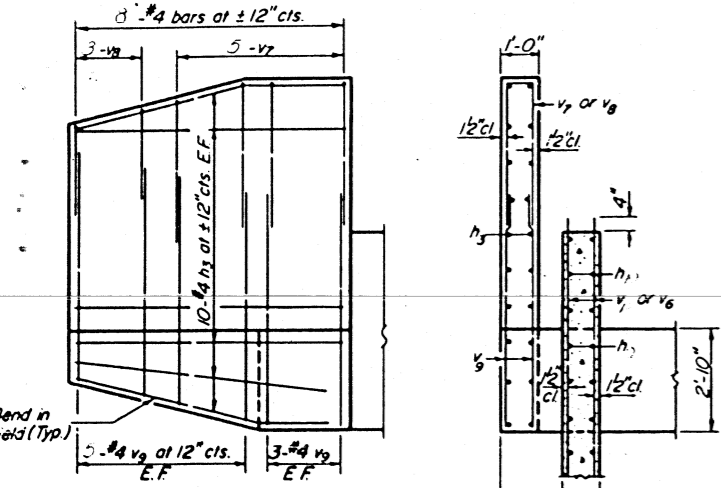
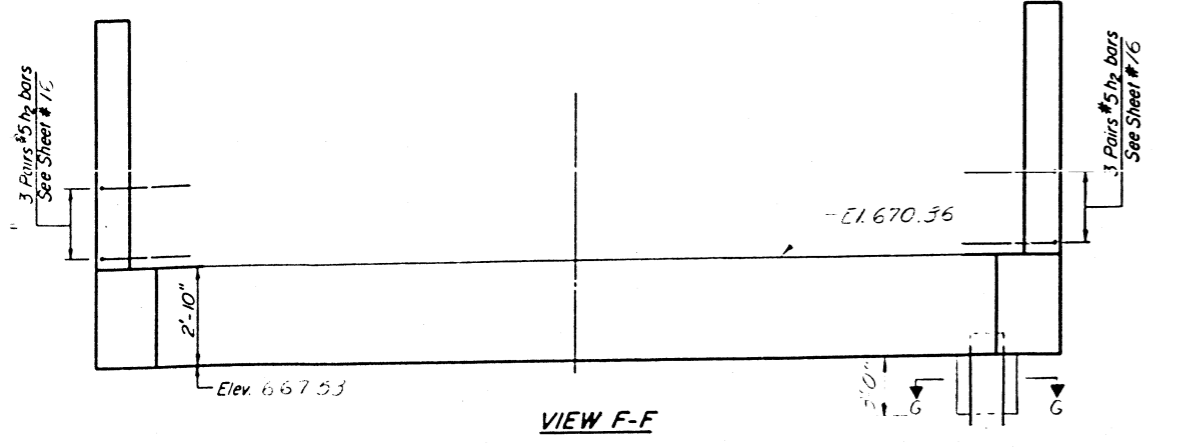
DESIGNED	[Signature]
CHECKED	[Signature]
DRAWN	[Signature]
CHECKED	[Signature]

EXAMINED	[Signature]	APPROVED	[Signature]
PASSED	[Signature]		

CURTAIN WALLS  
WEST ABUTMENT  
FA I. RT. 55 SEC. 63-5118-2  
MONTGOMERY COUNTY  
STATION 837+39.00

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

DATE	BY	CHECKED	TOTAL SHEETS	SHEET NO.
APR 23 1970	REVISED	REVISED	31	22
DESIGNED		DRAWN		SHEET NO.
CHECKED		CHECKED		17 SHEETS

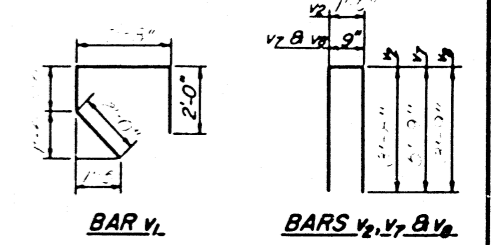
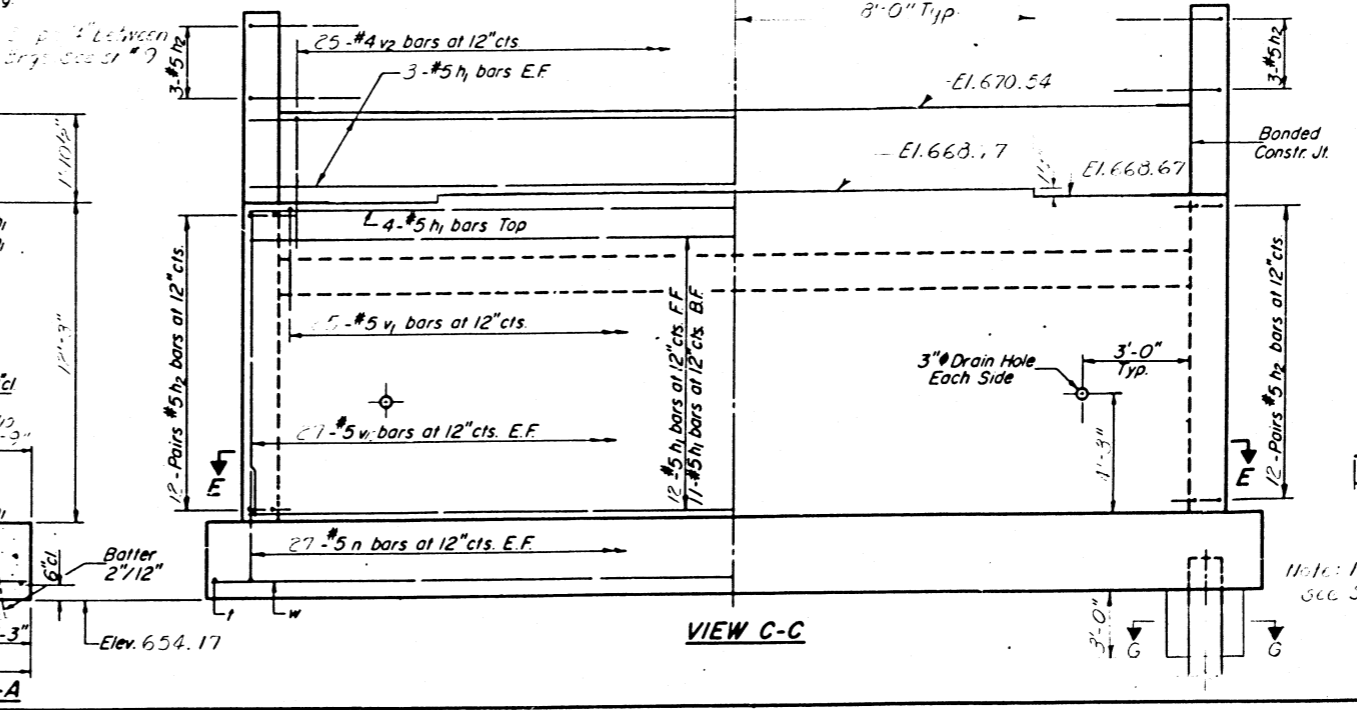
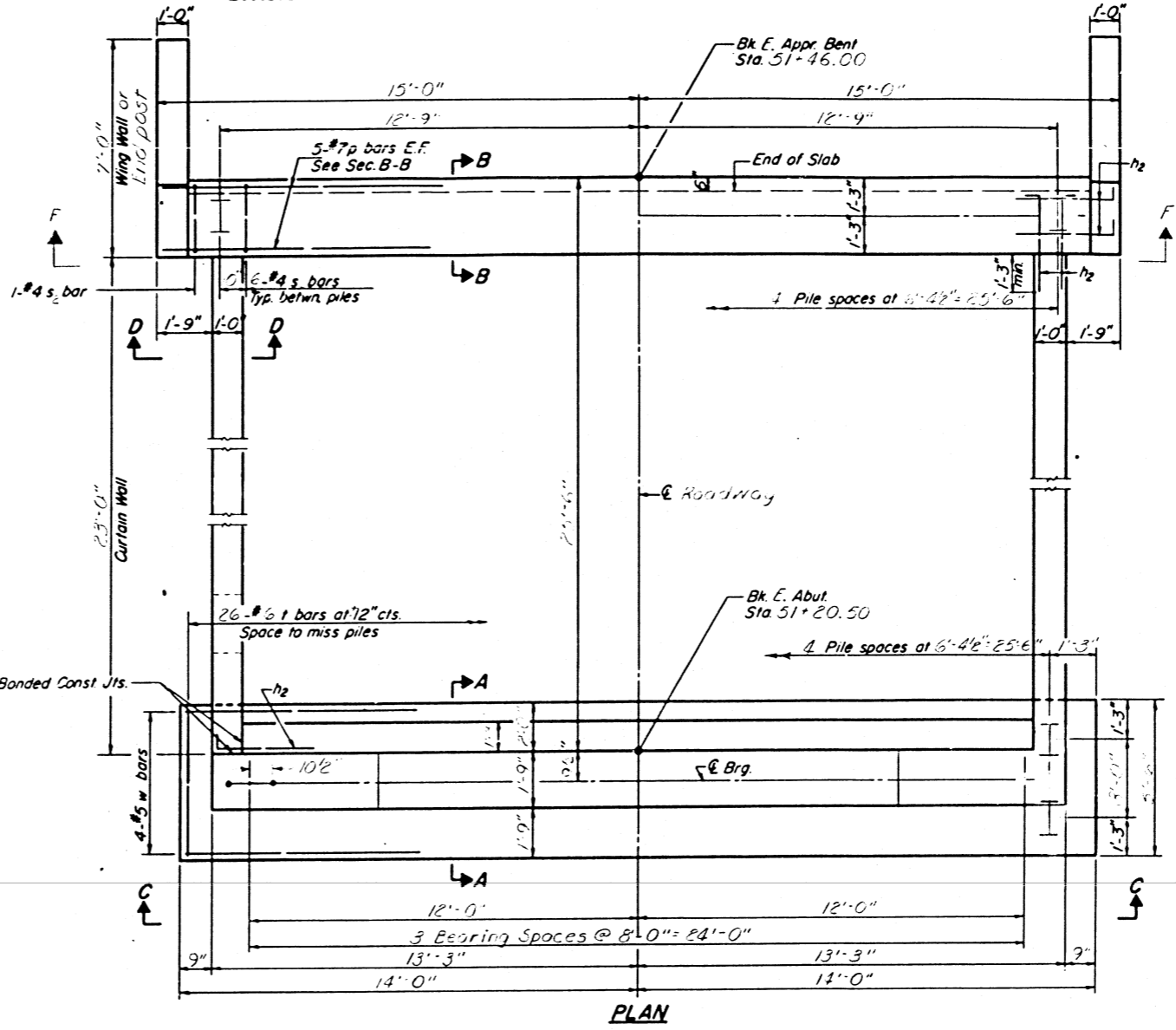
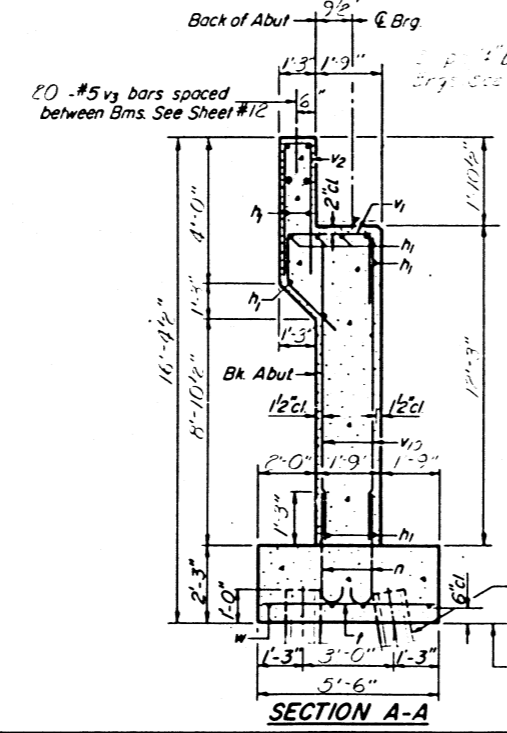
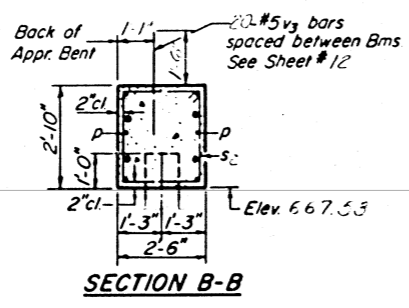


DESIGNED	APR 23 1970
CHECKED	REVISED
DRAWN	REVISED
CHECKED	REVISED

APPROVED: Richard H. Goltzman

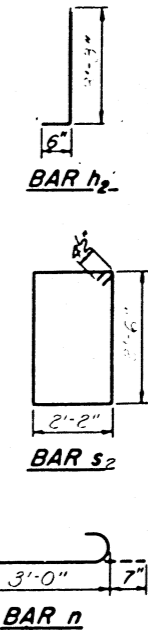
VA-O 3-17-69

REINFORCEMENT detail See Sec G-G Sh #14



**BILL OF MATERIAL**

Bar	No	Size	Length	Shape
h1	33	#5	26'-3"	—
h2	28	#5	3'-9"	J
h3	10	#4	6'-9"	—
h4	18	#5	21'-3"	—
h5	12	#5	22'-3"	—
h6	12	#5	21'-3"	—
h7	4	#4	23'-0"	—
n	66	#5	3'-7"	J
p	10	#7	29'-9"	—
s2	26	#4	10'-1"	O
t	24	#6	5'-3"	—
v10	54	#5	12'-0"	—
v1	25	#5	8'-3"	J
v2	25	#5	8'-4"	—
v3	48	#5	3'-0"	—
v4	12	#5	17'-0"	—
v5	36	#5	21'-3"	—
v6	24	#5	5'-9"	—
v7	10	#4	12'-3"	—
v8	6	#4	8'-3"	—
v9	32	#4	4'-9"	—
w	4	#5	27'-9"	—
Reinforcement Bars	Lbs.	6,520		
Class X Concrete	Cu Yds.	65.4		
Steel Piles, BEP-36	Lin. Ft.	475		

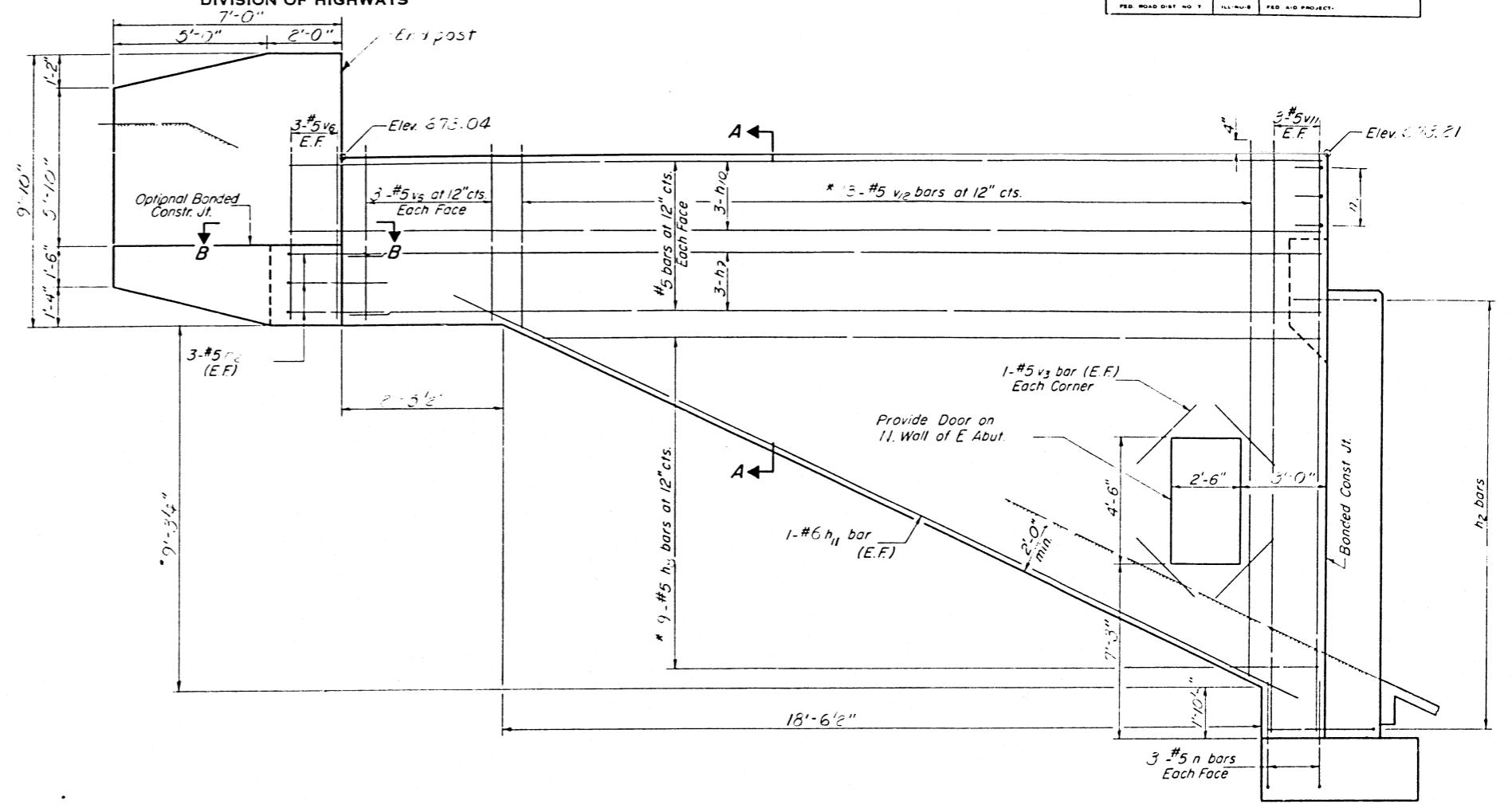


Note: For Section G-G See Sh #14.

EAST ABUTMENT  
FAIRFAX SEC. 5115  
MUNICIPALITY  
STATION 839+39.00

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RT. 55	SEC. 68-2	MT. CO.	13	12
FED. ROAD DIST. NO. 1	ILL. ROAD	FED. AID PROJECT		



**SIDE ELEVATION**

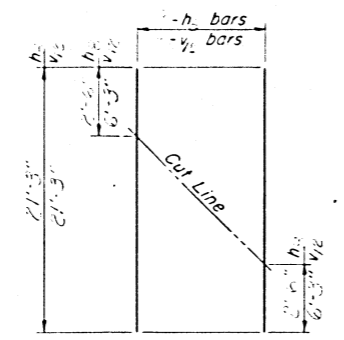
Notes for pile sheet piling  
see sheet #11

**APPR. BENT - PILE DATA**

Type Steel EP 30  
Capacity Drive to refusal  
Est. Length 33'  
No. Req'd. 5

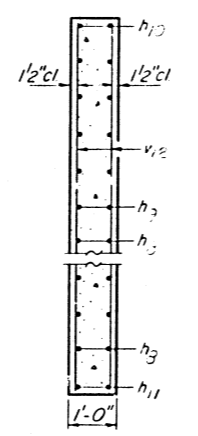
**ABUT. - PILE DATA**

Type Steel EP 30  
Capacity Drive to refusal  
Est. Length 30'  
No. Req'd. 10

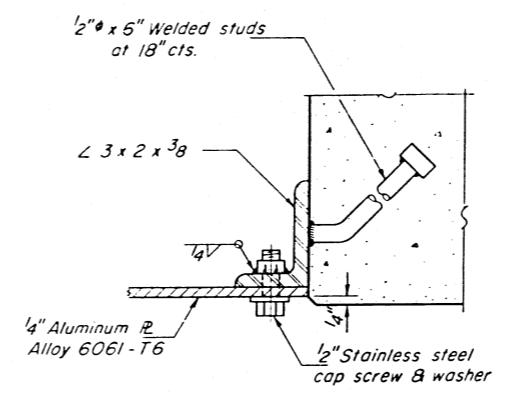


**FIELD CUTTING DIAGRAM**

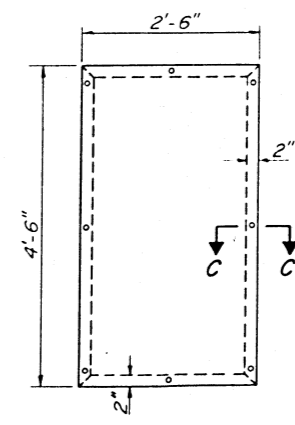
\* Order h<sub>10</sub> & v<sub>1/2</sub> bars full length.  
Cut to fit as shown and use  
remainder of bars in other face



**SECTION A-A**



**SECTION C-C**



**DOOR ELEVATION**

(Cost of door and frame are incidental)

DESIGNED	TS 4/12
CHECKED	
DRAWN	
CHECKED	

EXAMINED  
PASSED  
APPROVED  
Richard H. Gulterson  
CHIEF HIGHWAY ENGINEER

**CURTAIN WALLS  
EAST ABUTMENT  
FAI RT. 55 SEC. 68-2  
MONTGOMERY COUNTY  
STATION 839+39.00**



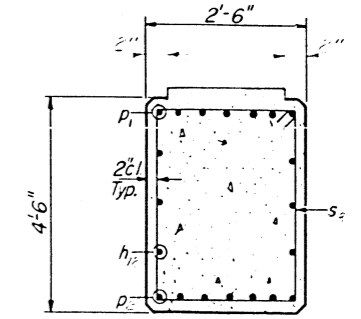
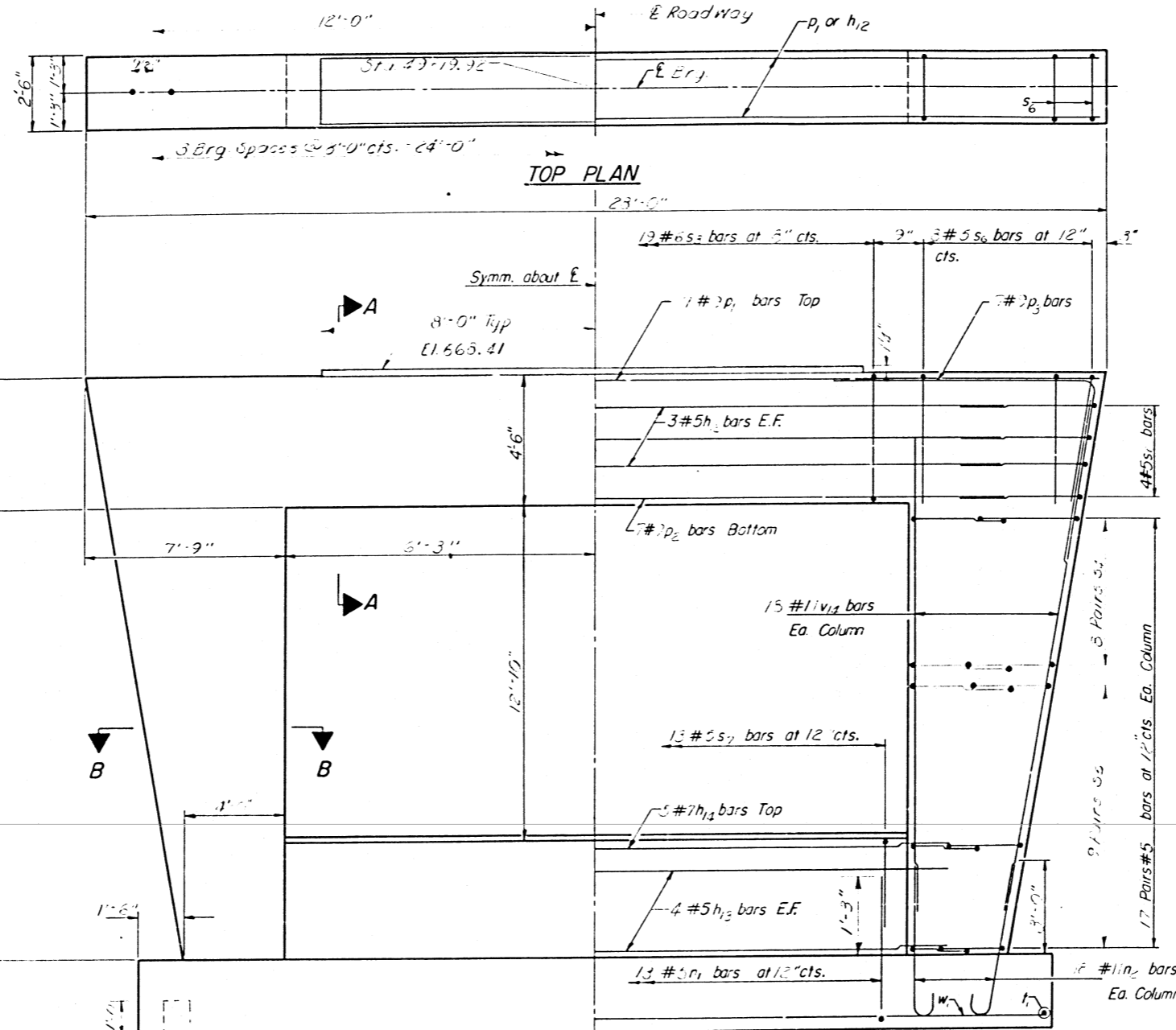
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68-5	45-2	MONTGOMERY	31	24
FED. ROAD DIST. NO. 7		ILL. HO. E.	FED. AID PROJECT	

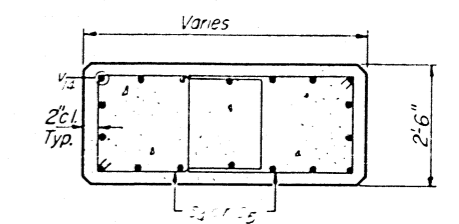
SHEET NO.  
24  
OF 31 SHEETS

**NOTES:**

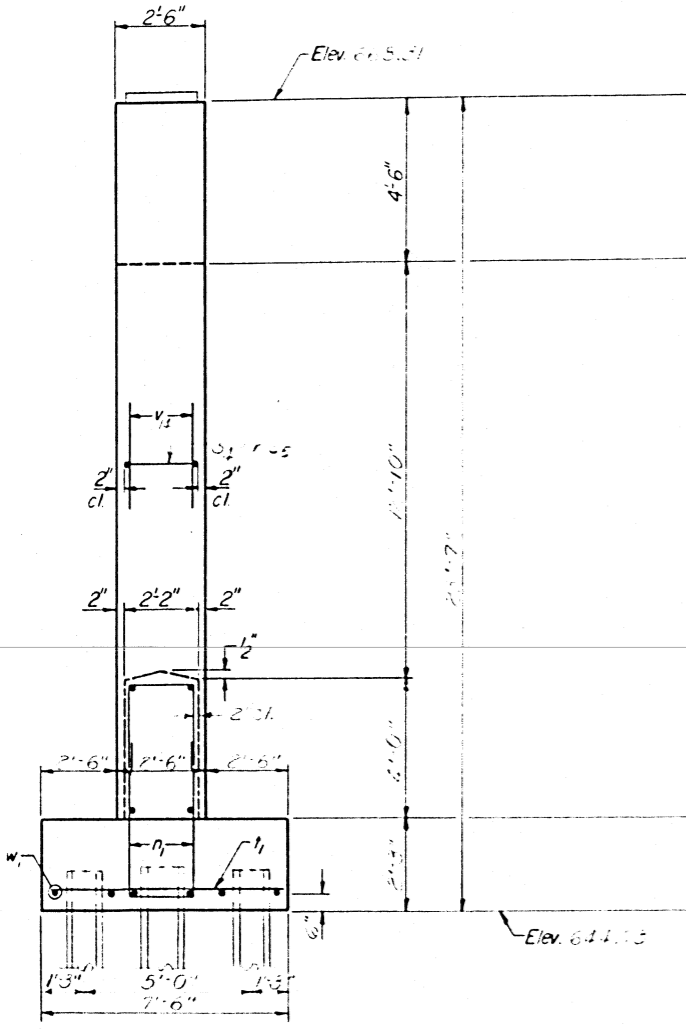
Space reinforcement in cap to miss anchor bolts.  
All edges shall have standard 3/4 chamfers  
except as noted.  
Pour steps monolithically with cap.



SECTION A-A



SECTION B-B

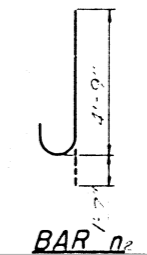


END VIEW

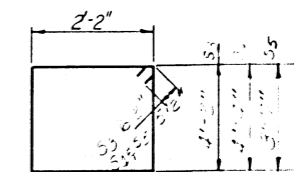
Elev. 64.1.2

Elev. 64.1.3

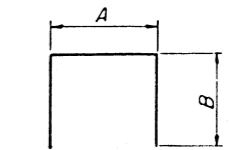
BAR p2



BAR n2



BARS s3, h1, s5



BARS n1, s, s7

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h12	6	#5	21'-0"	—
h14	3	#5	16'-6"	—
h14	5	#7	17'-0"	—
n1	13	#5	9'-0"	U
n2	3	#11	6'-0"	U
p1	7	#7	27'-9"	—
p2	7	#7	22'-6"	—
p3	14	#9	17'-0"	—
s3	19	#6	13'-9"	□
s4	32	#5	13'-11"	□
s5	36	#5	16'-5"	□
s6	24	#5	10'-6"	□
s7	13	#5	7'-2"	□
v14	34	#11	20'-6"	—
w1	6	#8	23'-3"	—
Class X Concrete		Cu. Yds.	17.3	
Reinforcement Bars		Lbs.	3330	
Steel Piles 8BP36		Lin Ft.	176	

**A&B DIMENSIONS**

Bar	A	B
n1	1'-10"	3'-1"
s6	2'-2"	1'-2"
s7	1'-10"	3'-8"

**PILE DATA**  
Type 8BP36  
Capacity Drive to refusal  
Est. Length 16'  
No Required 11

DESIGNED	11-18-69
CHECKED	
DRAWN	By Robinson
CHECKED	

APPROVED: *Richard H. Golden*  
CHIEF ENGINEER

PILE LAYOUT & DIMENSIONS

REINFORCEMENT

**FOOTING PLAN**

PIER #1  
F.A. RT 55 SEC. 68-5NB-2  
MONTGOMERY COUNTY  
STATION 839+3700

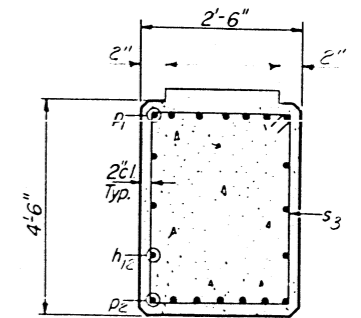
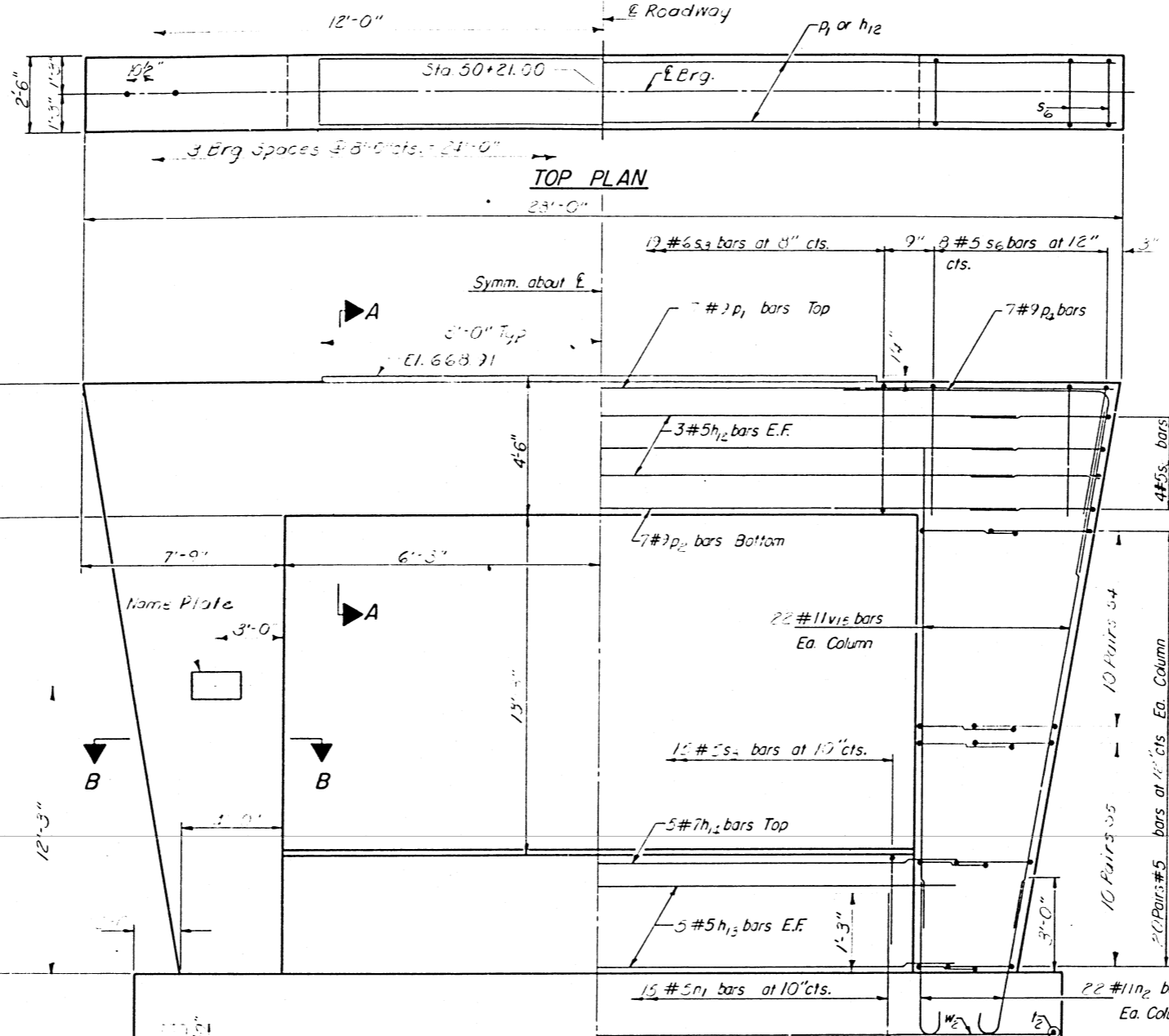
**NOTES:**

Space reinforcement in cap to miss anchor bolts.  
 All edges shall have standard 1/4 chamfers  
 except as noted.  
 Pour steps monolithically with cap.

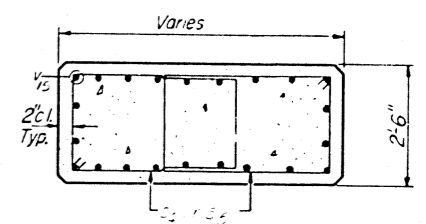
STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63-55	MB-2	Montgomery	31	25
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

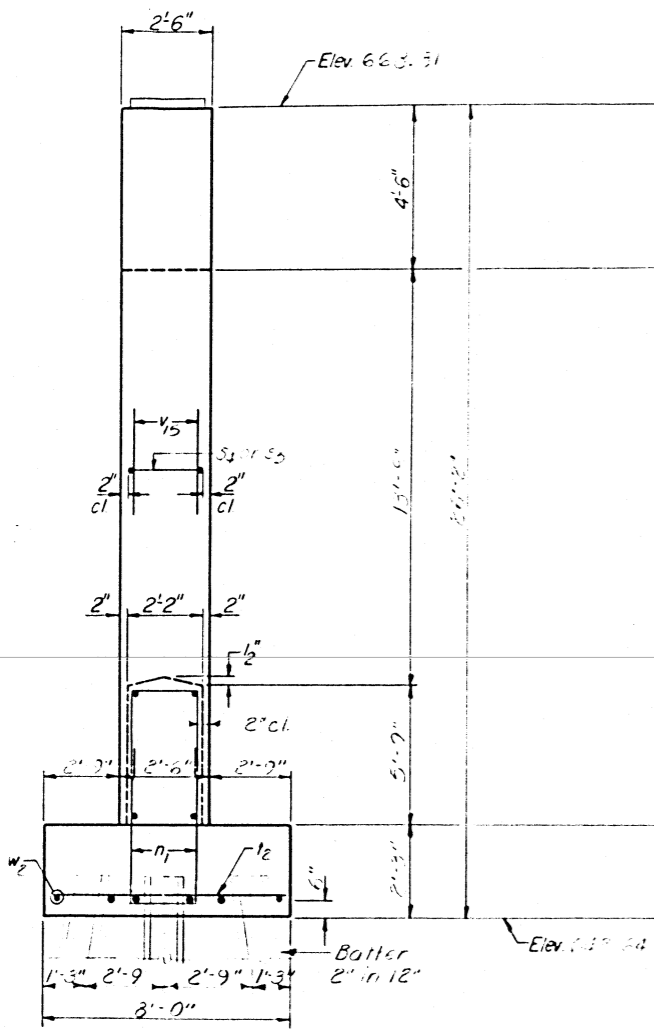
SHEET NO. 13  
 13 SHEETS



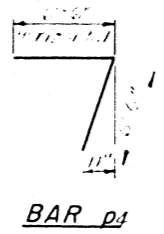
SECTION A-A



SECTION B-B



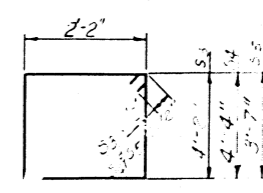
END VIEW



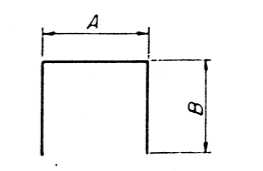
BAR p1



BAR n2



BARS s2, h12, s5



BARS n1, s6, s3

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h2	6	#5	21'-9"	□	
h12	10	#5	16'-0"	□	
r14	5	#7	17'-0"	□	
n1	15	#5	8'-0"	□	
n2	44	#11	6'-2"	□	
p1	7	#9	27'-7"	□	
p2	7	#9	22'-6"	□	
p4	14	#9	12'-8"	□	
s3	19	#6	13'-9"	□	
s4	40	#5	13'-11"	□	
s5	40	#5	12'-2"	□	
s6	24	#5	10'-8"	□	
s3	15	#5	12'-8"	□	
t2	15	#10	7'-9"	□	
v12	44	#11	23'-6"	□	
w2	6	#6	24'-3"	□	
Class X Concrete				Cu. Yds.	33.5
Reinforcement Bars				Lbs.	12,310
Steel Piles 8BP36				Lin. Ft.	221
Test Piles 8BP36				Each	1
Name Plates				Each	1

**A&B DIMENSIONS**

Bar	A	B
n1	1'-10"	3'-1"
s6	2'-2"	4'-2"
s5	1'-10"	5'-5"

**PILE DATA**  
 Type: Steel 13 BP-36  
 Capacity: Drive to Refusal  
 Est. Length: 17'  
 No. Required: 13 + 1 test pile

DESIGNED	[Signature]
CHECKED	[Signature]
DRAWN	[Signature]
CHECKED	[Signature]

EXAMINED	[Signature]
PASSED	[Signature]
APPROVED	[Signature]

PIER #2  
 FAI RT 55 SEC. 63-511B-2  
 MONTGOMERY COUNTY  
 STATION 839+3700

**FOOTING PLAN**

