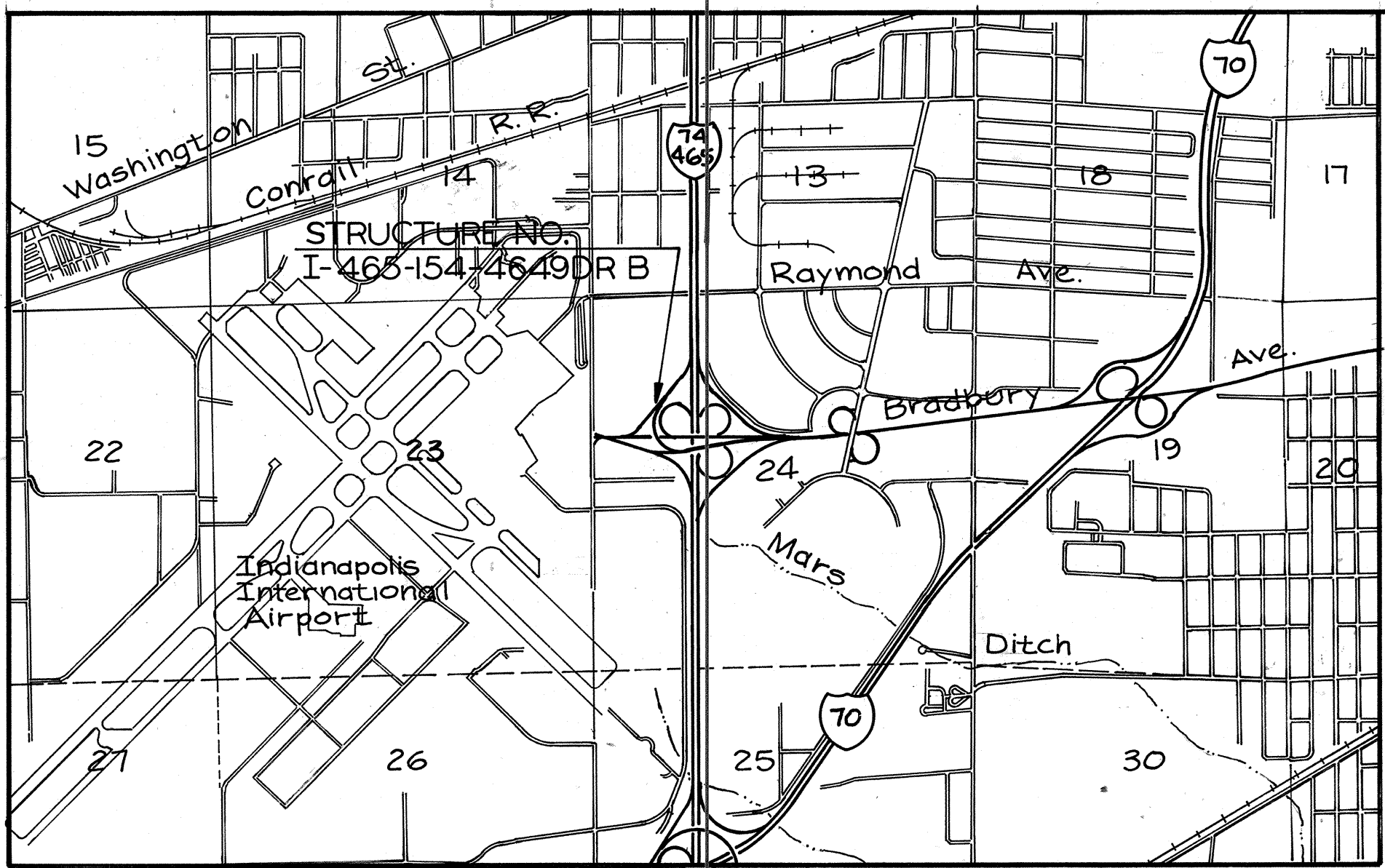
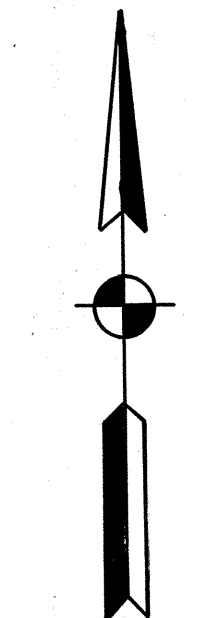


INDEX					
PROJECT	STRUCTURE	TYPE	SPAN	OVER	STATION
MANHI-465-4(276)	I-465-154-4649DR(B)	CONTINUOUS COMPOSITE STEEL BEAM	1 @ 43'-0" 1 @ 51'-6" 1 @ 39'-0"	BRADBURY E.B. OVER I-465	
SHEET NO.	SHEET DESIGNATION	SUBJECT			F.H.W.A. APPROVAL
1	ONE SHEET	TITLE SHEET			
2,3	TWO SHEETS	TYPICAL CROSS SECTION			
4	ONE SHEET	ROAD CONSTRUCTION DETAILS			
5	ONE SHEET	RAMP "S.W.L." GRADES & TRANSITIONS			
6	ONE SHEET	MAINTENANCE OF TRAFFIC			
7	ONE SHEET	DETOUR DETAILS			
8	SI	LAYOUT			
9	S2	TIE-UP DIMENSIONS			
10	S3	GENERAL PLAN			
11	S4	R.C. APPROACH SLAB			
12	S5	R.C. APPROACH SLAB DETAILS			
13	S6	CONCRETE BARRIER RAIL TRANSITION			
14	S7	SPECIAL CONCRETE BARRIER RAIL TRANSITION			
15	S8	BENT NO. 1			
16	S9	BENT NO. 2			
17	S10	BENT NO. 3			
18	S11	BENT NO. 4			
19	S12	END BENT DETAILS			
20	S13	STRUCTURAL STEEL DETAILS			
21	S14	STRUCTURAL STEEL DETAILS			
22	S15	BEARING DETAILS			
23	S16	SUPERSTRUCTURE			
24	S17	SUPERSTRUCTURE			
25	S18	SUPERSTRUCTURE DETAILS			
26	S19	SCREED DATA			
27	ONE SHEET	BRIDGE SUMMARY SHEET			
28-32	FIVE SHEETS	CROSS SECTIONS			

TRAFFIC DATA		
A.D.T. (1992)	I-465-154-4649DR(B)	16,200 V.P.D.
A.D.T. (19 PROJECTED)		V.P.D.
D.H.V. (19 PROJECTED)		V.P.D.
TRUCKS		D.H.V. % A.D.T. %
DESIGN SPEED		35 M.P.H.
ACCESS CONTROL		LIMITED



INDIANA
DEPARTMENT OF
TRANSPORTATION

BRIDGE PLANS
FOR SPANS OVER 20 FEET
ON
INTERSTATE ROAD NO.465
PROJECT NO. MANHI-465-4

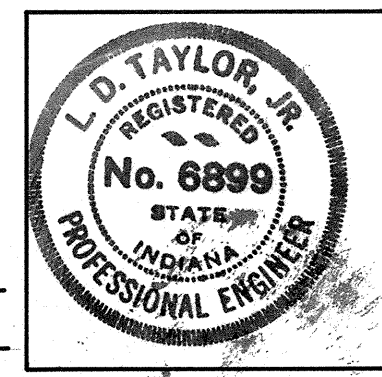
APPROACH PAVEMENT REPLACEMENT AND BRIDGE WIDENING BY REMOVAL AND REPLACEMENT OF SUPERSTRUCTURE, EXISTING END BENTS AND INTERIOR BENT CAPS OF STRUCTURE I-465-154-4649 DR(B) ALL IN SECTION 24, T15N, R2E, WAYNE TOWNSHIP, MARION COUNTY, INDIANA

BRIDGE LENGTH: 0.028 MI.
ROADWAY LENGTH: 0.170 MI.
TOTAL LENGTH: 0.198 MI.
MAX. GRADE: 4.00 %

INDEX CONTINUED					
STANDARD DRAWINGS			* F.H.W.A. APPROVAL PENDING		
SHEET NO.	SHEET DESIGNATION	SUBJECT	F.H.W.A. APPROVAL	ADOPTED "A" REVISION	"N"
	BRIDGE STD. BR1	ALUMINUM BRIDGE RAILING			
	BRIDGE STD. BR2	ALUMINUM BRIDGE RAILING DETAILS			
	BRIDGE STD. BR3	STEEL BRIDGE RAILING			
	BRIDGE STD. BR4	STEEL BRIDGE RAILING DETAILS			
	BRIDGE STD. BR5	RAILING CONNECTION DETAILS			
	BRIDGE STD.				
33	BRIDGE STD. C1	MISCELLANEOUS DETAILS	11-22-91	R 10-1-91	
	BRIDGE STD. C2	MISCELLANEOUS DETAILS			
34	BRIDGE STD. C3	MISCELLANEOUS DETAILS	1-26-88	R 11-2-87	
	BRIDGE STD. C4	MISCELLANEOUS DETAILS			
35	BRIDGE STD. D	CASTING DETAILS ROADWAY DRAINS	1-11-89	R 9-1-88	
	BRIDGE STD. D1	ADJUSTING FRAME DETAILS FOR ROADWAY DRAINS			
	BRIDGE STD.				
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS			
	BRIDGE STD. PB	PRESTRESSED CONCRETE TYPE I-BEAMS			
	BRIDGE STD. PB6	PRESTRESSED BOX BEAMS			
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE			
	BRIDGE STD. PB	PRESTRESSED COMPOSITE BOX BEAMS WIDE			
	BRIDGE STD. PB10	TOLERANCES FOR FABRICATION OF PRESTRESSED BEAMS			
	BRIDGE STD. PB11	ELASTOMERIC BEARING PAD DETAILS			
	BRIDGE STD.				
	BRIDGE STD. R2A	BRIDGE LIGHTING DETAILS			
	BRIDGE STD. R2B	BRIDGE LIGHTING DETAILS			
36	BRIDGE STD. S1	MISCELLANEOUS DETAILS			
	BRIDGE STD. SH1	STEEL SHOE DETAILS			
	BRIDGE STD. T SHEET A	STANDARD TEMPORARY BRIDGE			
	BRIDGE STD. T SHEET B	STANDARD TEMPORARY BRIDGE			
	BRIDGE STD.				
	BRIDGE STD.				
	BRIDGE STD.				
	BRIDGE STD.				
37	ROAD STD. SHEET A	STANDARD PAVEMENT JOINTS	*	R 3-1-90	
	ROAD STD. SHEET B	STANDARD PAVEMENT JOINTS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
38	ROAD STD. SHEET MA	MISCELLANEOUS STANDARDS	*	R 3-1-90	
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
39	ROAD STD. SHEET MB4	MISCELLANEOUS STANDARDS	6-14-74	R 1-2-74	
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
40	ROAD STD. SHEET MI-1	MISCELLANEOUS STANDARDS	6-20-91	A Apr. 1991	
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
41	ROAD STD. SHEET MN	MISCELLANEOUS STANDARDS	9-24-85	R 6-3-85	
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
42	ROAD STD. SHEET MP	MISCELLANEOUS STANDARDS	9-24-85	R 6-3-85	
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
43	ROAD STD. SHEET MT-1	MISCELLANEOUS STANDARDS	*	R 5-1-89	
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
	ROAD STD. SHEET	MISCELLANEOUS STANDARDS			
44	ROAD STD. SHEET G-1	GUARD RAIL, W-BEAM, COMPONENTS	*	A Dec. 1991	
45	ROAD STD. SHEET G-2	GUARD RAIL, THRIE-BEAM, COMPONENTS	*	A Dec. 1991	
46	ROAD STD. SHEET G-3	GUARD RAIL, W-BEAM, ASSEMBLIES	*	A Dec. 1991	
47	ROAD STD. SHEET T-1	GUARD RAIL TRANSITION TYPE GB	*	A Dec. 1991	
48	ROAD STD. SHEET T-2	GUARD RAIL TRANSITION TYPE GP	*	A Dec. 1991	
49	ROAD STD. SHEET T-3	GUARD RAIL TRANSITION TYPE VH	*	A Dec. 1991	
50	ROAD STD. SHEET T-4	GUARD RAIL PIER CONNECTION DETAILS	*	A Dec. 1991	
51	ROAD STD. SHEET E-2	END TREATMENT TYPE OS	*	A Dec. 1991	
	ROAD STD. SHEET GR9				
	ROAD STD. SHEET GR10	GUARD RAIL BURIED ENDS			
	ROAD STD. SHEET GR10A	GUARD RAIL BREAKAWAY CABLE TERM.			
	ROAD STD.				
52	ROAD STD. SHEET CB2	TEMPORARY CONCRETE BARRIER	1-11-89	R 9-1-88	
53	ROAD STD. SHEET 1 DETOURS	STANDARD DETOUR SIGNS	*	A Sep. 1988	
	ROAD STD. SHEET 1A DETOURS	STANDARD DETOUR SIGNS			
	ROAD STD. SHEET 1B DETOURS	STANDARD DETOUR SIGNS			
	ROAD STD. SHEET 2 DETOURS	STANDARD DETOUR SIGNS	6-20-91	R 4-1-91	
54	ROAD STD. SHEET 2A DETOURS	STANDARD DETOUR SIGNS	*	A Sep. 1988	
55	ROAD STD. SHEET 3 DETOURS	STANDARD DETOUR SIGNS	*	R 9-1-88	
56	ROAD STD. SHEET 3A DETOURS	STANDARD DETOUR SIGNS	*	R 9-1-88	
57	ROAD STD. SHEET 4 DETOURS	STANDARD DETOUR SIGNS	1-11-89	R 9-1-88	
58	ROAD STD. SHEET 4A DETOURS	STANDARD DETOUR SIGNS			
59	ROAD STD. SHEET 5A DETOURS	STANDARD DETOUR SIGNS	*	R 9-1-88	

PLANS SUBMITTED FOR APPROVAL
BOYD E. PHELPS INC.
INDIANAPOLIS & MICHIGAN CITY, INDIANA

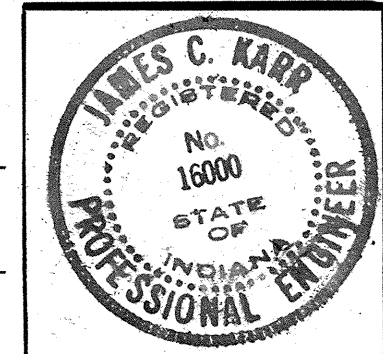
BY L.D. Taylor, Jr.
DATE July 7, 1992



SCALE: 1"=2000'

NOTE:
WHENEVER I-465-4(276)
APPEARS ON THESE PLANS OR CONTRACT DOCUMENTS
IT SHALL BE INTERPRETED AS MANHI-465-4(276)

RECOMMENDED FOR APPROVAL 7-28-92
James C. Karr
BRIDGE ENGINEER, I.D.O.T.



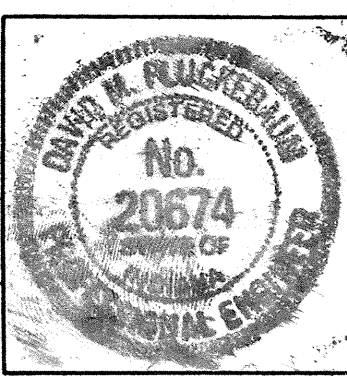
APPROVED 7-28-92
James C. Karr
CHIEF, DIVISION OF DESIGN, I.D.O.T.

INDIANA DEPARTMENT OF HIGHWAYS
STANDARD SPECIFICATIONS DATED 19
TO BE USED WITH THESE PLANS.

REVISIONS	
DATE	SHEET NO.

REVISIONS	
DATE	SHEET NO.

RECOMMENDED FOR APPROVAL 7-28-92
David M. Bell
DESIGN CONSULTANT SERVICES
MANAGER, I.D.O.T.



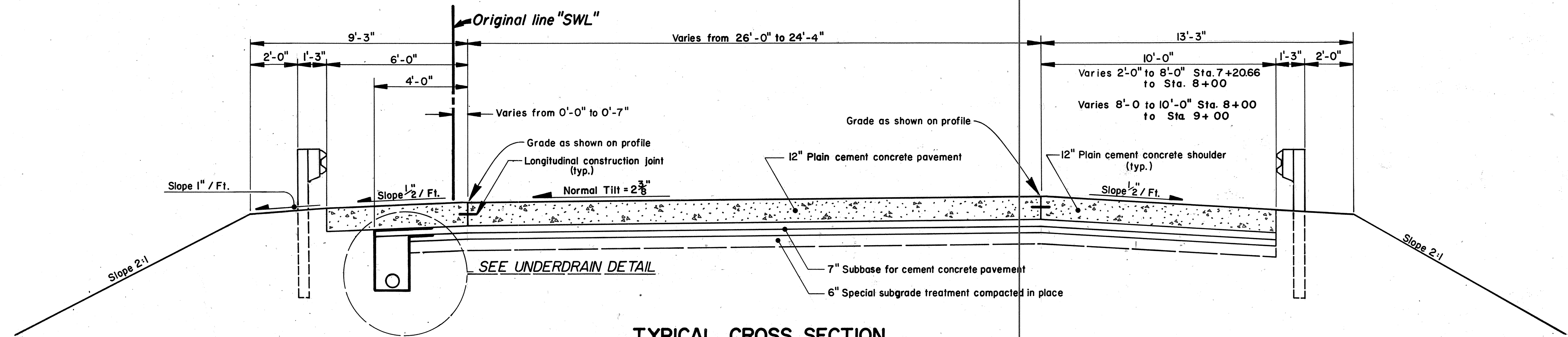
FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

APPROVED: _____
DIVISION ADMINISTRATOR

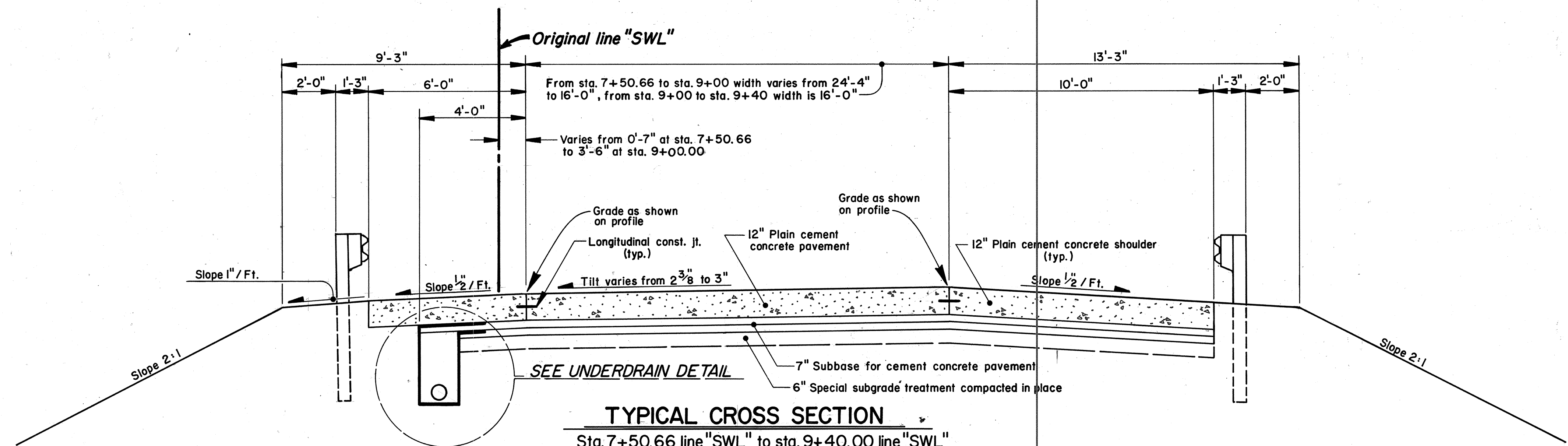
DATE: _____

BRIDGE FILE: I-465-154-4649 DR(B)

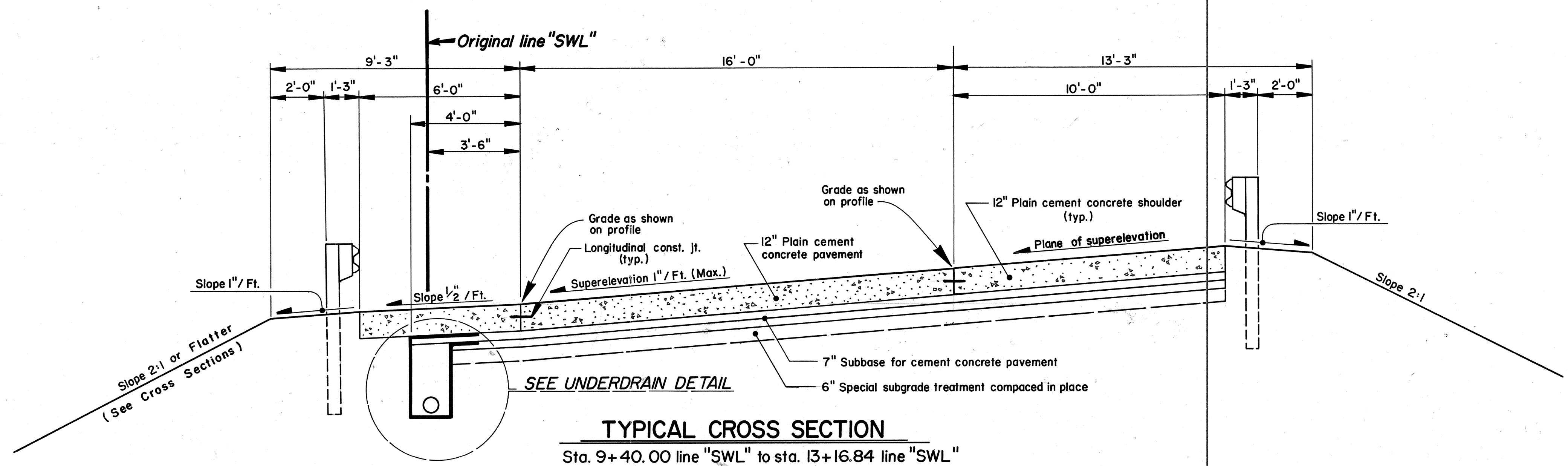
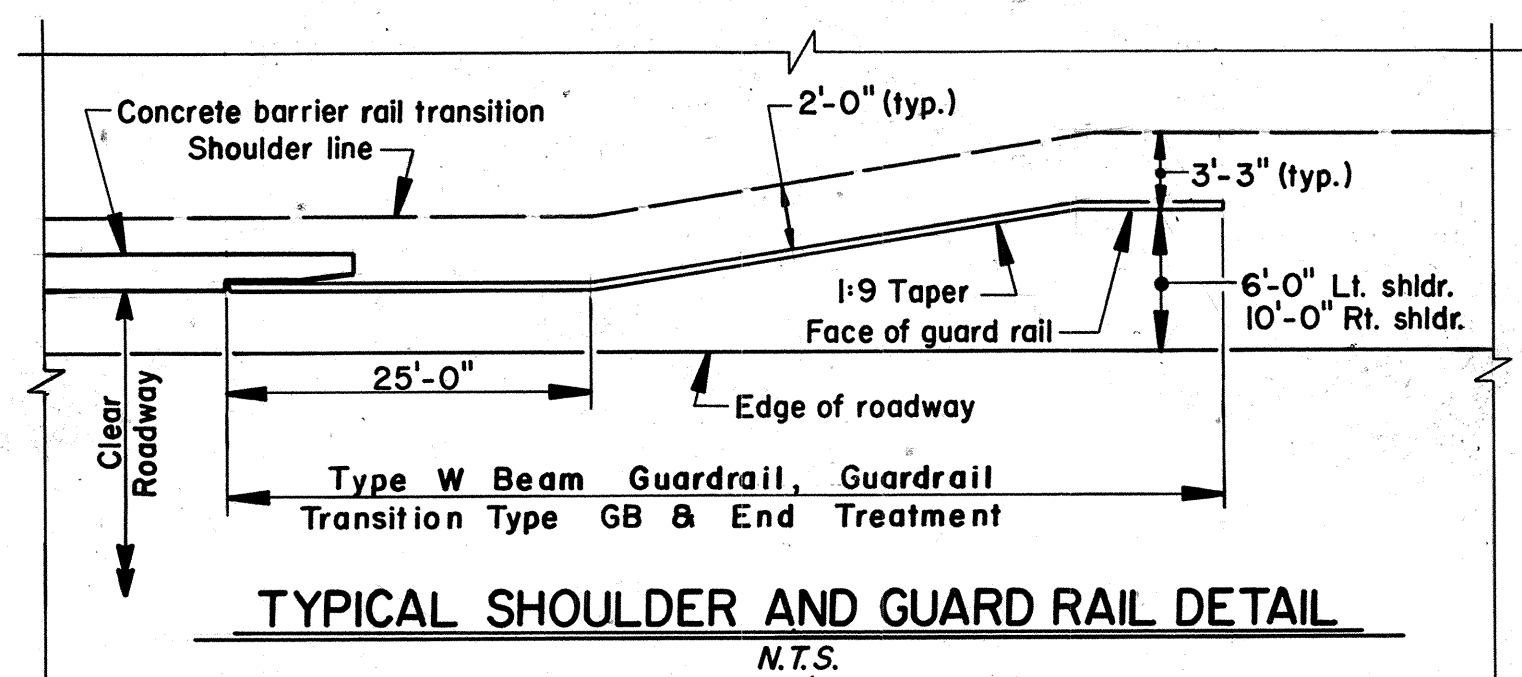
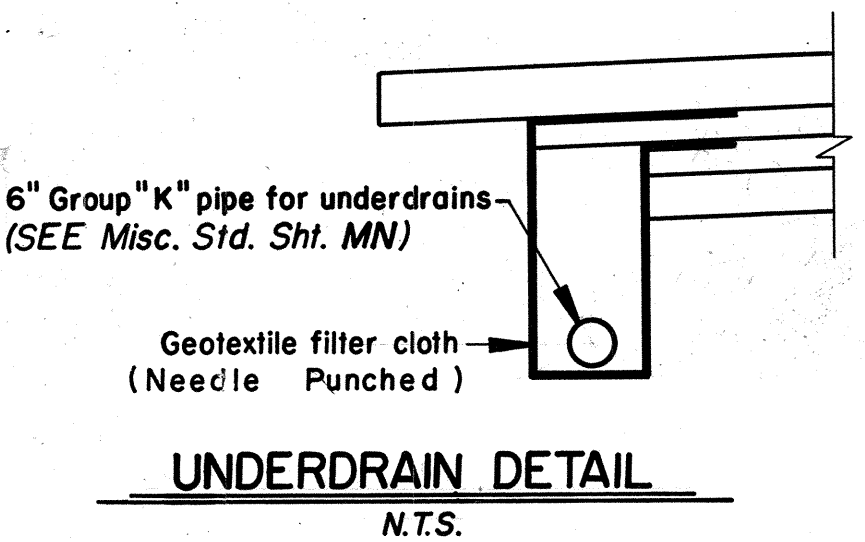
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-465-4()	199	2	59



TYPICAL CROSS SECTION
Sta. 7+20.66 line "SWL" to sta. 7+50.66 line "SWL"



TYPICAL CROSS SECTION
Sta. 7+50.66 line "SWL" to sta. 9+40.00 line "SWL"



TYPICAL CROSS SECTION
Sta. 9+40.00 line "SWL" to sta. 13+16.84 line "SWL"

I-465 S.B. TO E.B. AIRPORT EXPRESSWAY VIA S.W. LOOP
INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTIONS

SCALE: 3/8" = 1'-0"

RECOMMENDED FOR APPROVAL July 7, 1992

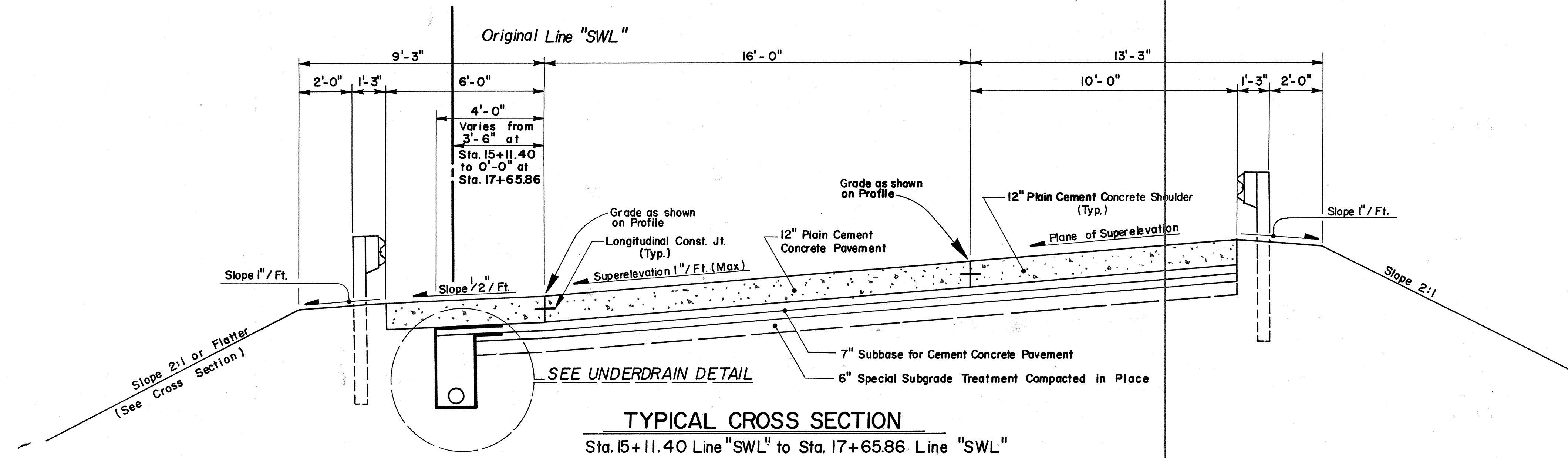
L.D. Taylor, Jr.



B-19705

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
IR-465-4()	"SWL"	2	59	

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IND.	IR-465 -4()	199	3	59



I-465 S.B. TO E.B. AIRPORT EXPRESSWAY VIA S.W. LOOP
INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL CROSS SECTIONS
SCALE: $\frac{3}{8}$ " = 1'-0"

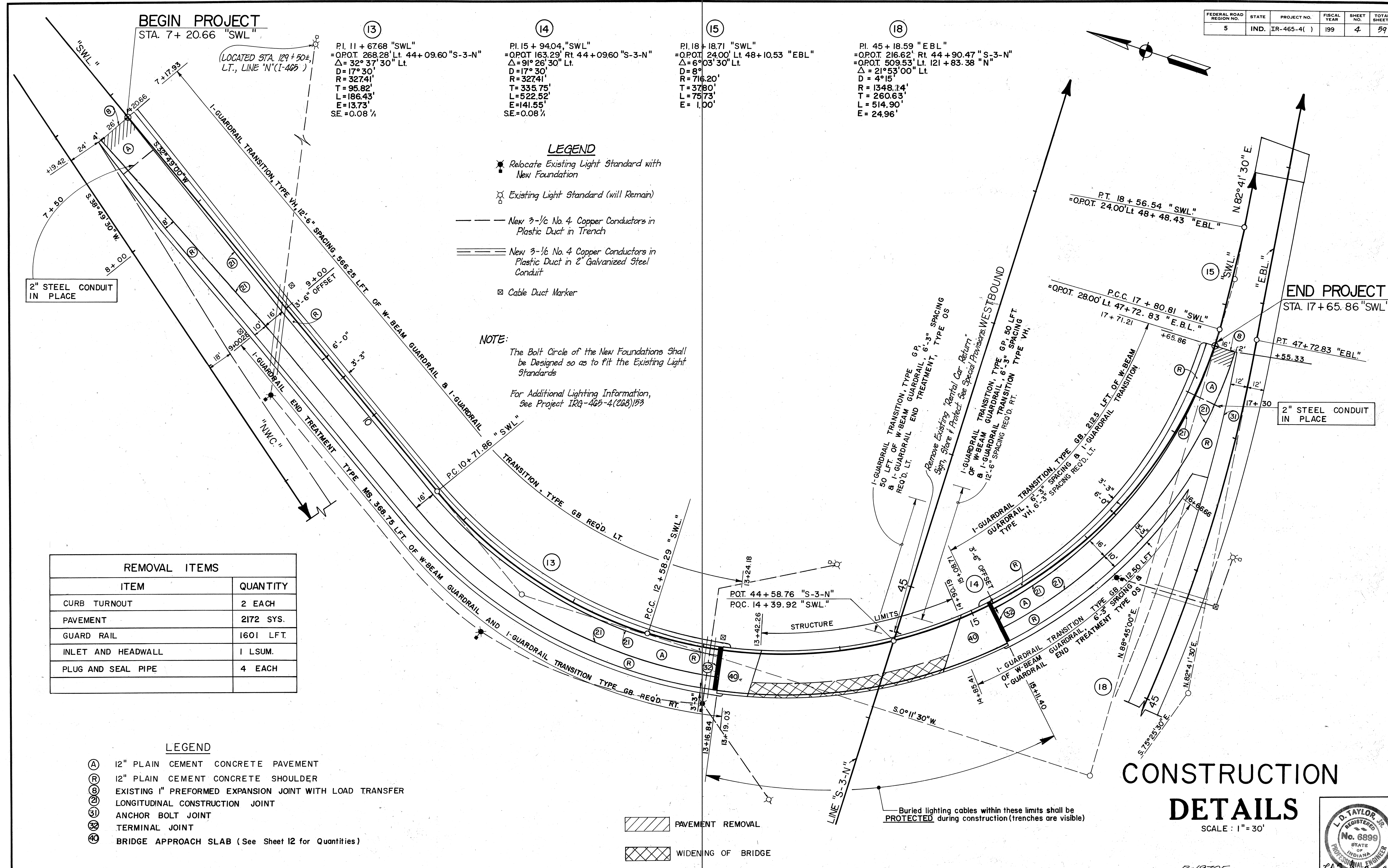
RECOMMENDED FOR APPROVAL *[Signature]* July 7, 1992

[Signature]



PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
IR-465-4()	SWL "	3	59	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	IR-465-4()	199	4	59



PHASE I:

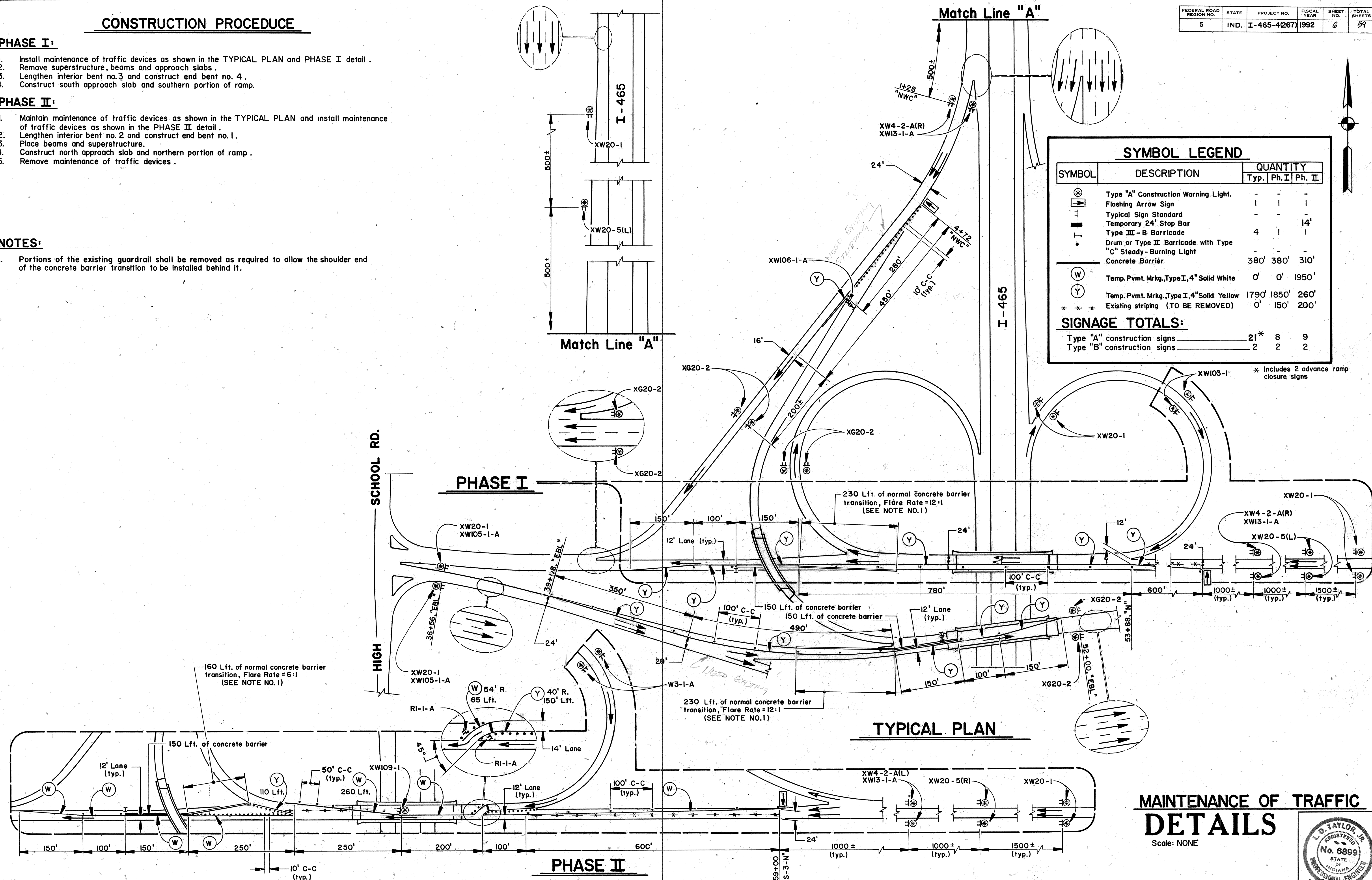
- ## PHASE II:

- NOTES:**

- | FEDERAL ROAD
REGION NO. | STATE | PROJECT NO. | FISCAL
YEAR | SHEET
NO. | TOTAL
SHEETS |
|----------------------------|-------|--------------|----------------|--------------|-----------------|
| 5 | IND. | I-465-4(267) | 1992 | 6 | 59 |

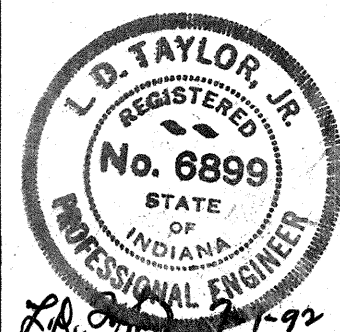
<u>SIGNAGE LEGEND</u>				
SYMBOL	DESCRIPTION	QUANTITY		
		Typ.	Ph. I	Ph. II
	Type "A" Construction Warning Light.	-	-	-
	Flashing Arrow Sign	1	1	1
	Typical Sign Standard	-	-	-
	Temporary 24' Stop Bar	-	-	14'
	Type III - B Barricade	4	1	1
	Drum or Type II Barricade with Type "C" Steady-Burning Light	-	-	-
	Concrete Barrier	380'	380'	310'
	Temp. Pvm't. Mrkg., Type I, 4" Solid White	0'	0'	1950'
	Temp. Pvm't. Mrkg., Type I, 4" Solid Yellow	1790'	1850'	260'
* * *	Existing striping (TO BE REMOVED)	0'	150'	200'

- * Includes 2 advance ramp closure signs



MAINTENANCE OF TRAFFIC DETAILS

Scale: NONE



B-19705

PROJECT NO.	LINE	SHEET NO.	FILE
T-465-4(267)		6/59	

SUMMARY

SIGNAGE TOTALS:

DETOUR ROUTE MARKER ASSEMBLIES 16 - Req'd.
TYPE "A" CONSTRUCTION SIGNS 5 - Req'd.
TYPE "B" CONSTRUCTION SIGNS 0 - Req'd.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
1 ⊙	Typical Standard Type "A" Construction Warning Light

SIGN LEGEND *

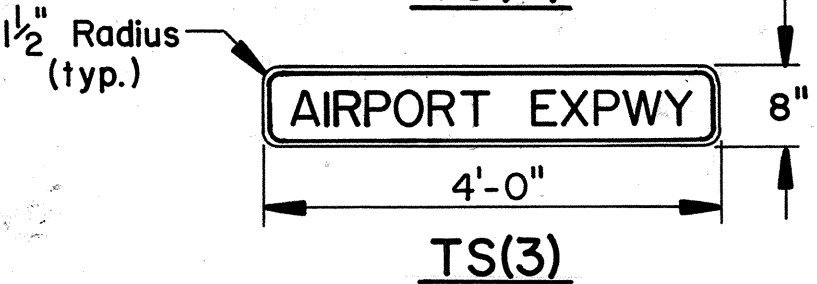
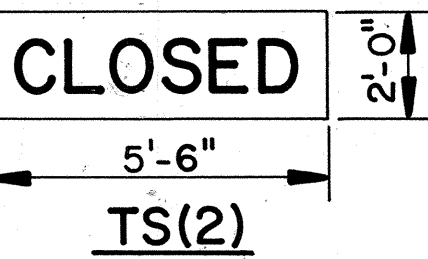
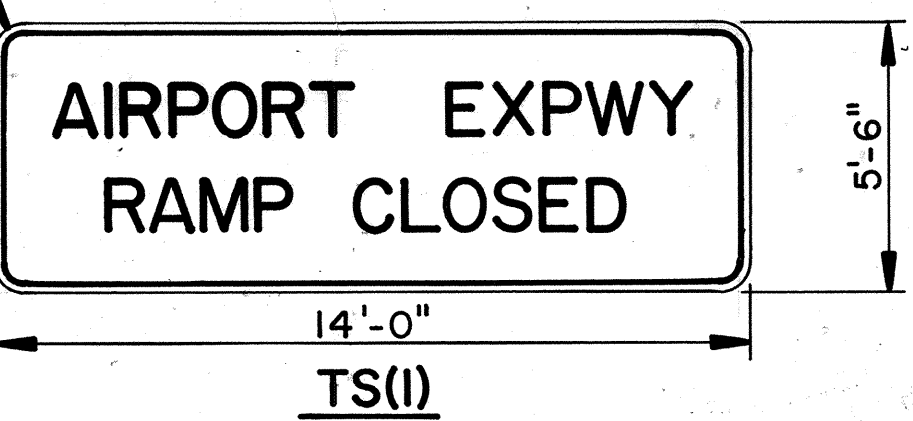
CODE NO.	QTY.	DESCRIPTION	SIZE
DRMA(1)	7	XM4-8, TS(3), M6-3	-
DRMA(2)	2	XM4-8, TS(3), M5-2(R)	-
DRMA(3)	3	XM4-8, TS(3), M6-2(R)	-
DRMA(4)	2	XM4-8, TS(3), R4-7a	-
DRMA(5)	2	XM-4-6, XM4-8, TS(3), M6-3	-
TS(1)	1	See sign details	As Shown
TS(2)	2	"	"
TS(3)	-	"	"
XW20-2	2	"DETOUR AHEAD"	48" x 48"

* - SEE NOTE NO. 3

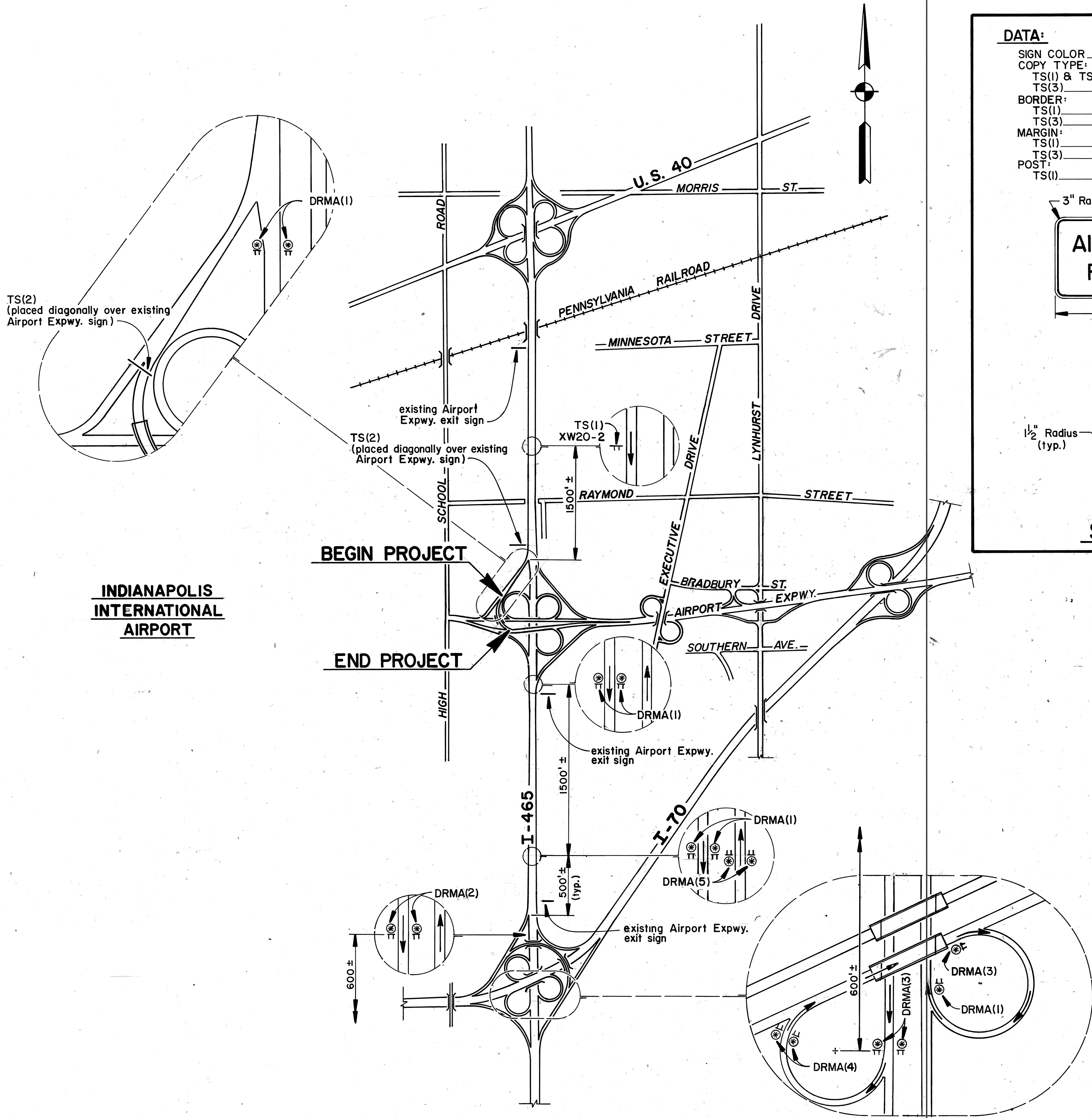
DATA:

SIGN COLOR See note no. 3
COPY TYPE:
TS(1) & TS(2) 12" - Series "D"
TS(3) 4" - Series "D"
BORDER:
TS(1) 1 1/4" Wide
TS(3) 5/8" Wide
MARGIN:
TS(1) 3/4" Wide
TS(3) 3/8" Wide
POST:
TS(1) Two 6" x 8" southern pine post

3" Radius, (typ.)



SIGN DETAILS



NOTES:

- All signs to be placed in accordance with Misc. Rd. Std. MT1
- For additional information concerning detour route marker assemblies SEE Rd. Std. Sht. 2 DETOURS
- All signs to be constructed in accordance with INDOT STANDARDS, with only one exception - ALL SIGNS SHALL BE OF ORANGE BACKGROUND WITH BLACK LEGEND & BORDER.

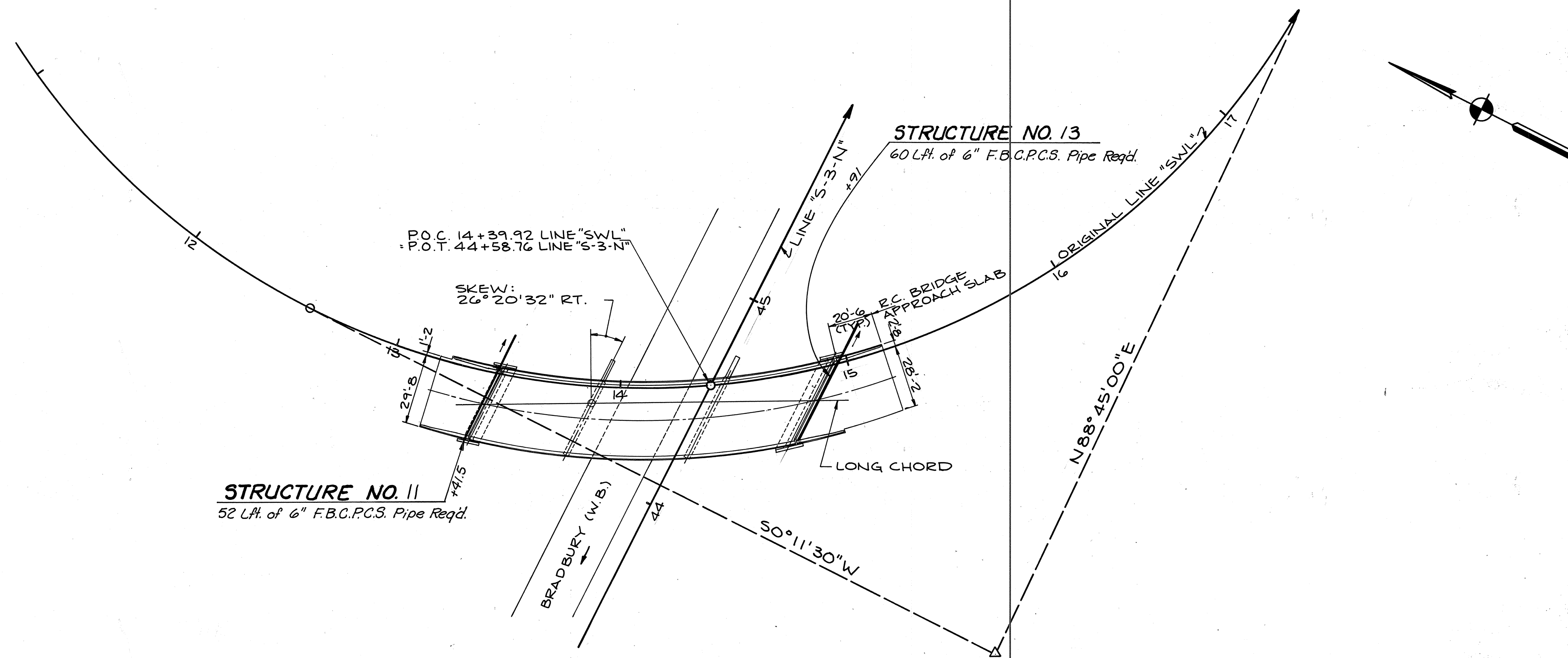
AIRPORT EXPWY. DETOUR

DETAILS

Scale: NONE

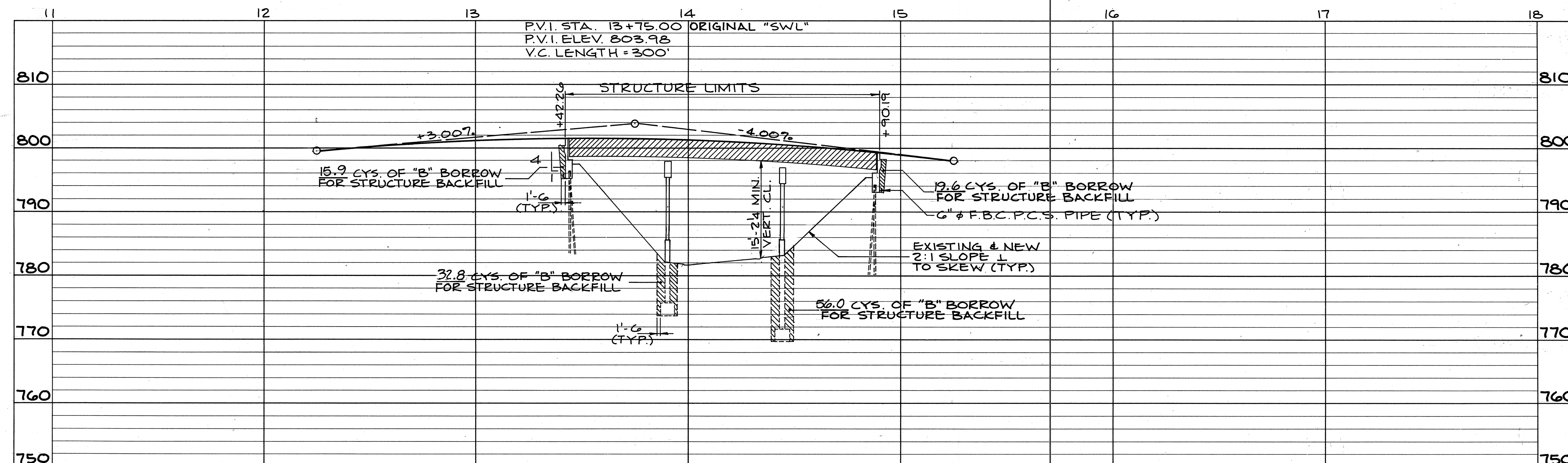


B-19705



ORIGINAL LINE "SWL"
CURVE DATA
 P.I. 15+94.04 "SWL"
 $\Delta = 91^\circ 26' 30''$ LT.
 $D = 17^\circ 30'$
 $R = 327.41'$
 $T = 335.75'$
 $L = 522.52'$
 $E = 141.55'$
 $SE = 0.08\%$

SITUATION PLAN
 SCALE: 1" = 30'-0", CONTOUR INTERVAL = 1 FT.



PROFILE ON ORIGINAL LINE "SWL"
 SCALES: HORIZ. 1" = 30'-0" VERT. 1" = 10'-0"

EARTHWORK TABULATION

FILL + 20%	2,771	CYS.
COMMON EXCAVATION	3,072	CYS.
FOUNDATION EXCAVATION (UNCLASSIFIED)	149	CYS.
"B" BORROW FOR STRUCTURE 125 BACKFILL		CYS.

ABOVE QUANTITIES DO NOT INCLUDE ANY QUANTITIES FOR THE EXCAVATION AND BACKFILLING FOR AREAS REQUIRING "SPECIAL SUBGRADE TREATMENT"; HOWEVER EXCAVATION FOR SUBGRADE TREATMENT IS ESTIMATED AT 128 CYS.

THE ESTIMATE OF QUANTITIES FOR BENCHING ARE 2,107 CYS. FOR CUT AND 2,528 CYS. FOR FILL AND ARE NOT INCLUDED IN THE EARTHWORK TABULATION ABOVE. THE COST OF BENCHING IS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

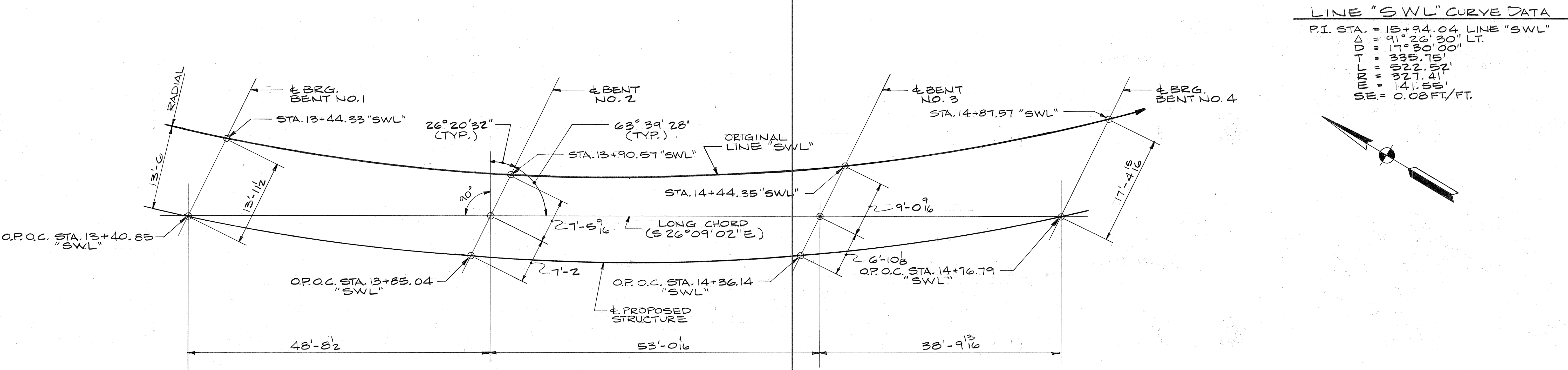
LAYOUT
 CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
 3 SPANS: 1@ 48'-8 1/2'; 1@ 53'-0 1/16; 1@ 38'-9 3/16 SKEW: 26° 20' 32" RT.
 29'-4 CLEAR ROADWAY 465 RAMP OVER BRADBURY (W.B.)
INDIANA DEPARTMENT OF HIGHWAYS

SCALE: AS NOTED DATE: July 7, 1992

RECOMMENDED FOR APPROVAL: L.D. Taylor, Jr. SENIOR DESIGNER

DRAWING: SI OF S19 SHEET: 8 OF 59
 PROJECT: IR-465-4() STATION: -
 BRIDGE CONTRACT NO. B-19705
 BRIDGE FILE: I-465-154-4649DRB





STANDARD DRAWINGS		
BR. STD.	RD. STD.	PURPOSE
C-1		REINFORCING BAR NOTES, BAR BENDING
		DETAILS & PILE SHELL FIELD SPLICE DETAILS
C-3		JOINT DETAILS, OPTIONAL RAILING VERT.
		REINF. SPLICE AND NOTCH IN SLAB
D		ROADWAY DRAIN TYPE "OS-D"
S-1		"B" BORROW FOR STRUCTURE BACKFILL
		& 6" F.B.C.P.C.S. PIPE
	JTS. A	CONSTRUCTION JOINTS
	MA	BENCH MARK TABLET
	MB-4	BERM DRAINAGE DETAILS
	MI-1	RUMBLE STRIPS
	MN	UNDERDRAIN DETAILS
	MP	PIPE FOR UNDERDRAINS
	G-1	W-BEAM GUARDRAIL COMPONENTS
	G-2	THREE-BEAM
	G-3	W-BEAM GUARDRAIL ASSEMBLIES
	T-1	GUARDRAIL TRANSITION TYPE GB
	T-2	GUARDRAIL TRANSITION TYPE GP
	T-3	GUARDRAIL TRANSITION TYPE VH
	T-4	PIER CONNECTION DETAILS
	E-2	GUARDRAIL END TREATMENT TYPE OS
	CB-2	TEMPORARY CONCRETE BARRIER
	DET. 1	STANDARD DETOUR SIGNS
	DET. 2	STANDARD DETOUR SIGNS
	DET. 2A	STANDARD DETOUR SIGNS & DEVICES
	DET. 3	STANDARD DETOUR SIGNS
	DET. 3A	STANDARD DETOUR SIGNS
	DET. 4	STANDARD DETOUR SIGNS
	DET. 5A	SIGN DESIGN DETAILS

TIE UP PLAN

SCALE: 8"=1'-0"

DESIGN DATA

- LIVE LOAD:** DESIGNED FOR HS20-44 LOADING WITH IMPACT AND DISTRIBUTION IN ACCORDANCE WITH 1989 A.A.S.H.T.O. SPECIFICATIONS. CHECKED FOR SPECIAL LOADING OF 272,400 LB. AXLES SPACED AT 4'-0" CENTERS.
- DEAD LOAD:** ACTUAL WEIGHT + 35 #/SQ. FT. OF ROADWAY TO PROVIDE FOR THE WEIGHT OF FUTURE WEARING SURFACE.
- FLOOR SLAB:** DESIGNED FOR 16,000# WHEEL LOAD PLUS IMPACT. STRUCTURAL DEPTH OF 6 1/2" INCHES.
- ALLOWABLE STRESSES:** TO BE IN ACCORDANCE WITH 1989 A.A.S.H.T.O. SPECIFICATIONS.
- DESIGN STRENGTHS:** CONCRETE: $f'_c = 3,000$ PSI
REINFORCING: $f_y = 40,000$ PSI
- DESIGN METHODS:** SUPERSTRUCTURE SLAB - SERVICE LOAD DESIGN METHOD
SUPERSTRUCTURE BEAMS - STRENGTH DESIGN METHOD
END BENTS & INTERIOR BENT CAPS - SERVICE LOAD DESIGN METHOD
INTERIOR BENT COLUMNS - STRENGTH DESIGN METHOD
- SEISMIC CRITERIA:** DESIGNED IN ACCORDANCE WITH 1983 A.A.S.H.T.O. "GUIDE SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES," INCLUDING 1985 INTERIM SPECIFICATIONS, USING SEISMIC PERFORMANCE CATEGORY "A" AND 0.05 ACCELERATION COEFFICIENT.

GENERAL NOTES

- PLANS FOR EXISTING STRUCTURE ARE ON FILE AT THE INDIANA DEPARTMENT OF TRANSPORTATION. THESE PLANS ARE AVAILABLE ON REQUEST.
- WHERE NEW WORK IS TO BE FITTED TO OLD WORK THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND REPORT ANY ERRORS OR DISCREPANCIES TO THE ENGINEER AND ASSUME RESPONSIBILITY FOR THEIR CORRECTNESS AND THE FIT OF THE NEW PART TO THE OLD.
- DEPTH OF FOOTINGS TO BE EXTENDED IF FOUND NECESSARY. SEE ARTICLE 206.11 (C) OF THE SPECIFICATIONS.
- PILES SHALL HAVE MINIMUM BEARING VALUE SHOWN ON DETAIL DRAWINGS. DETERMINE PILE LENGTHS BY SECTION 701 OF THE SPECIFICATIONS.
- FOR DETAILS OF STEEL ENCASED CONCRETE PILES, SEE BRIDGE STD. C1 AND APPLICABLE ARTICLES IN THE SPECIFICATIONS.
- REINFORCING STEEL COVERING SHALL BE 2 1/2" IN TOP AND 1" MIN. IN BOTTOM OF FLOOR SLABS, 3" IN FOOTINGS EXCEPT BOTTOM STEEL WHICH SHALL BE 4" AND 2" IN ALL OTHER PARTS, UNLESS NOTED OTHERWISE.
- CONCRETE IN SUPERSTRUCTURE, LAST END BENT MUDWALL FOUR AND RAILING TO BE CLASS "C".
- CONCRETE IN FOOTINGS AND COLLISION WALLS TO BE CLASS "B".
- CONCRETE IN END BENTS, INT. BENT CAPS & COLUMNS TO BE CLASS "A".
- CONTINUOUS CONCRETE POURS SHALL BE REQUIRED BETWEEN CONSTRUCTION JOINTS AS SHOWN IN DETAIL PLANS.
- CHAMFER EXPOSED EDGES 1", UNLESS NOTED.
- TOLERANCE IN POSITION OF PILE HEAD MAXIMUM 2" IN END BENTS.
- ONE STANDARD TYPE "OS-D" ROADWAY DRAIN TO BE PLACED AS SHOWN ON DWG. S-17.
- THE TOP OF END BENT CAPS, TOP & FRONT FACE OF MUDWALLS, FACE OF END DIAPHRAGMS, ALL EXPOSED SURFACES OF CONCRETE BARRIER RAILING, TOP OF BRIDGE DECK FACE OF DECK COPING AND UNDERSIDE OF BRIDGE DECK FROM COPING TO DRIP BEAD TO BE SURFACE SEALED.

TIE-UP DIMENSIONS

INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: As Noted

DATE: July 7, 1992

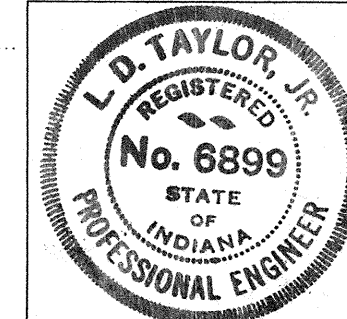
DESIGNED BY: [Signature]

DRAWING: 32 OF 59 SHEET: 9 OF 59

PROJECT: IR-465-4() STATION: -

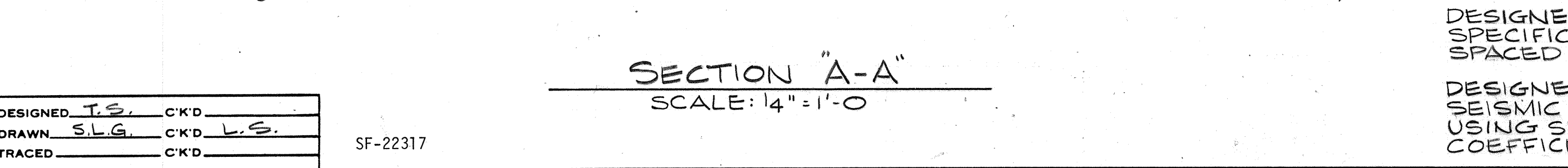
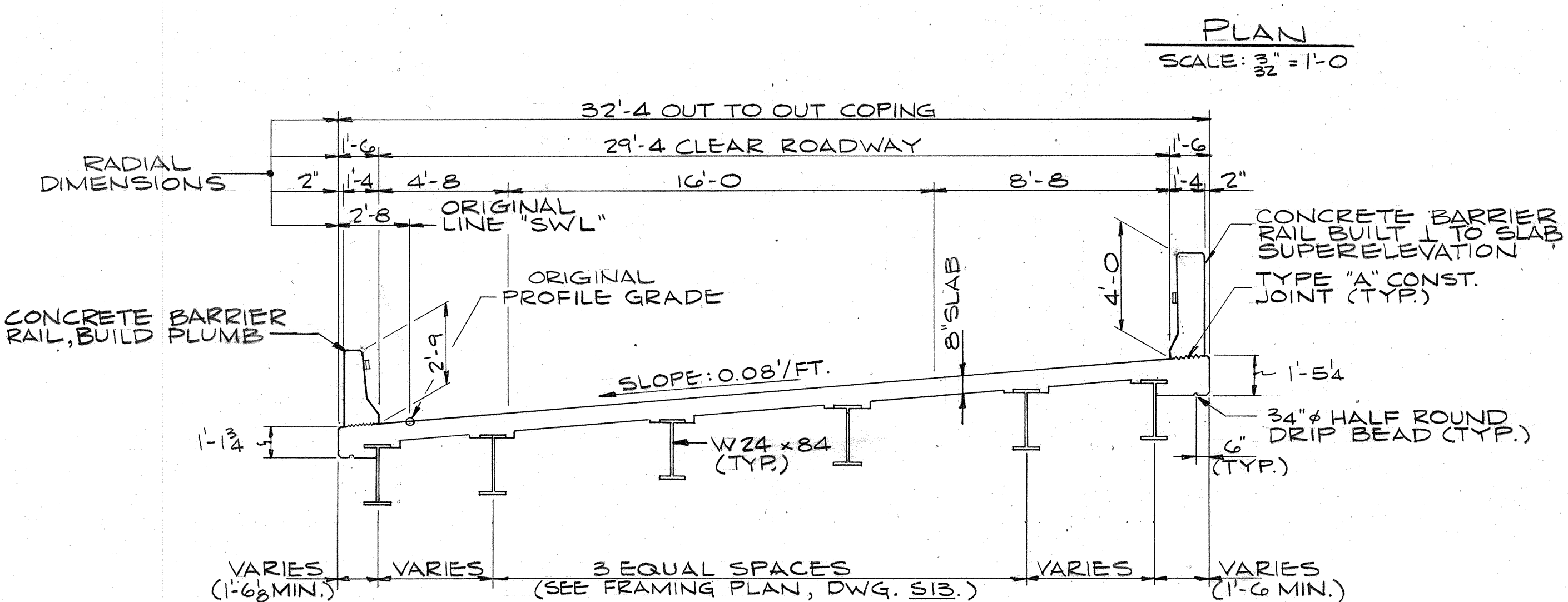
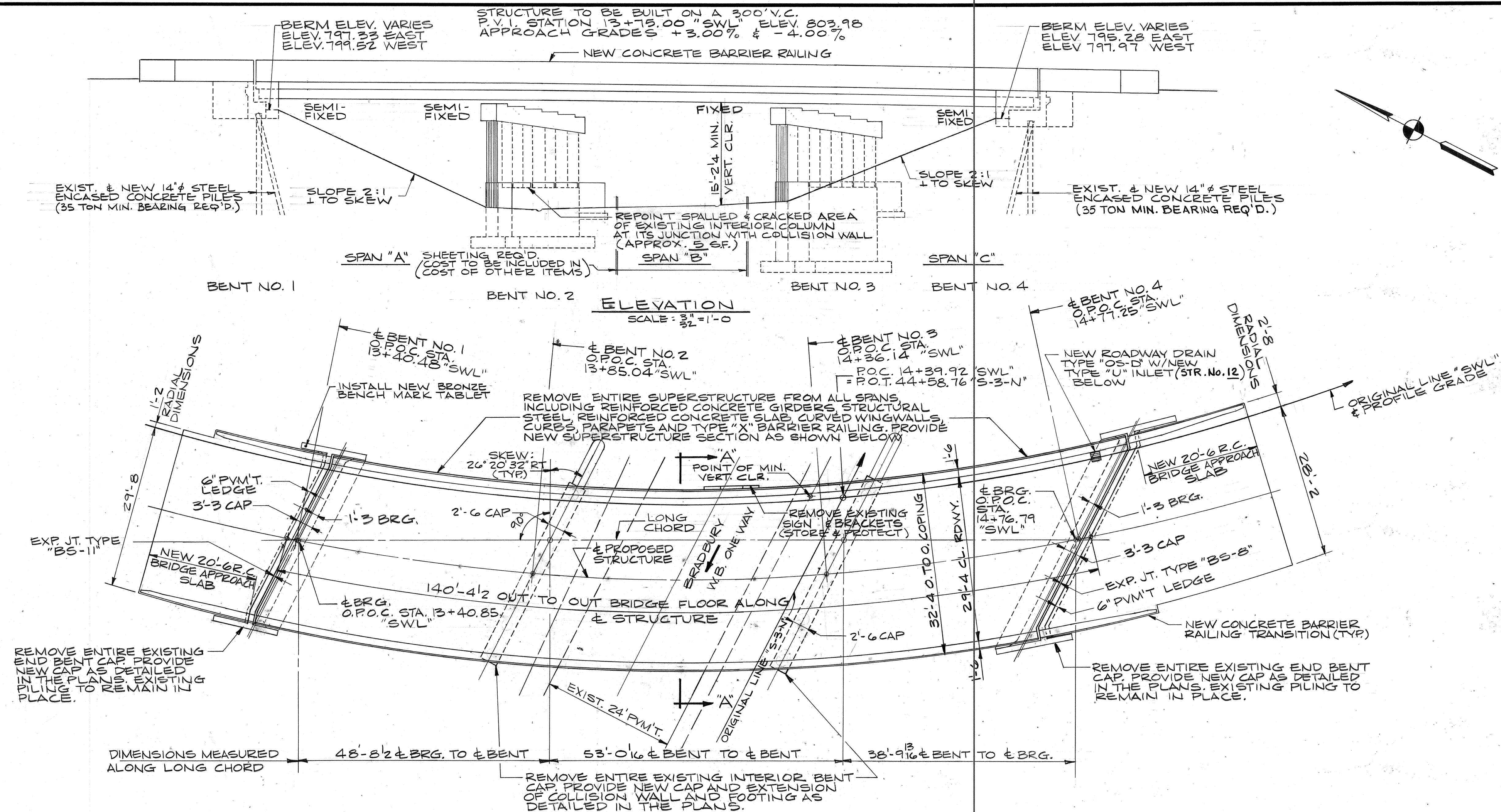
BRIDGE CONTRACT NO. B-19705

BRIDGE FILE: I-465-154-4649DRB



DESIGNED: TS	CKD
DRAWN: MM	LS
TRACED:	CKD

SF-22317

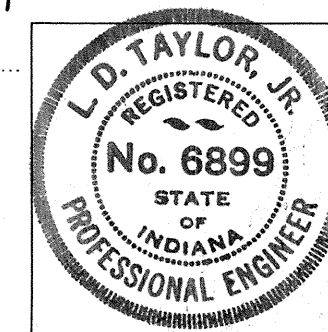


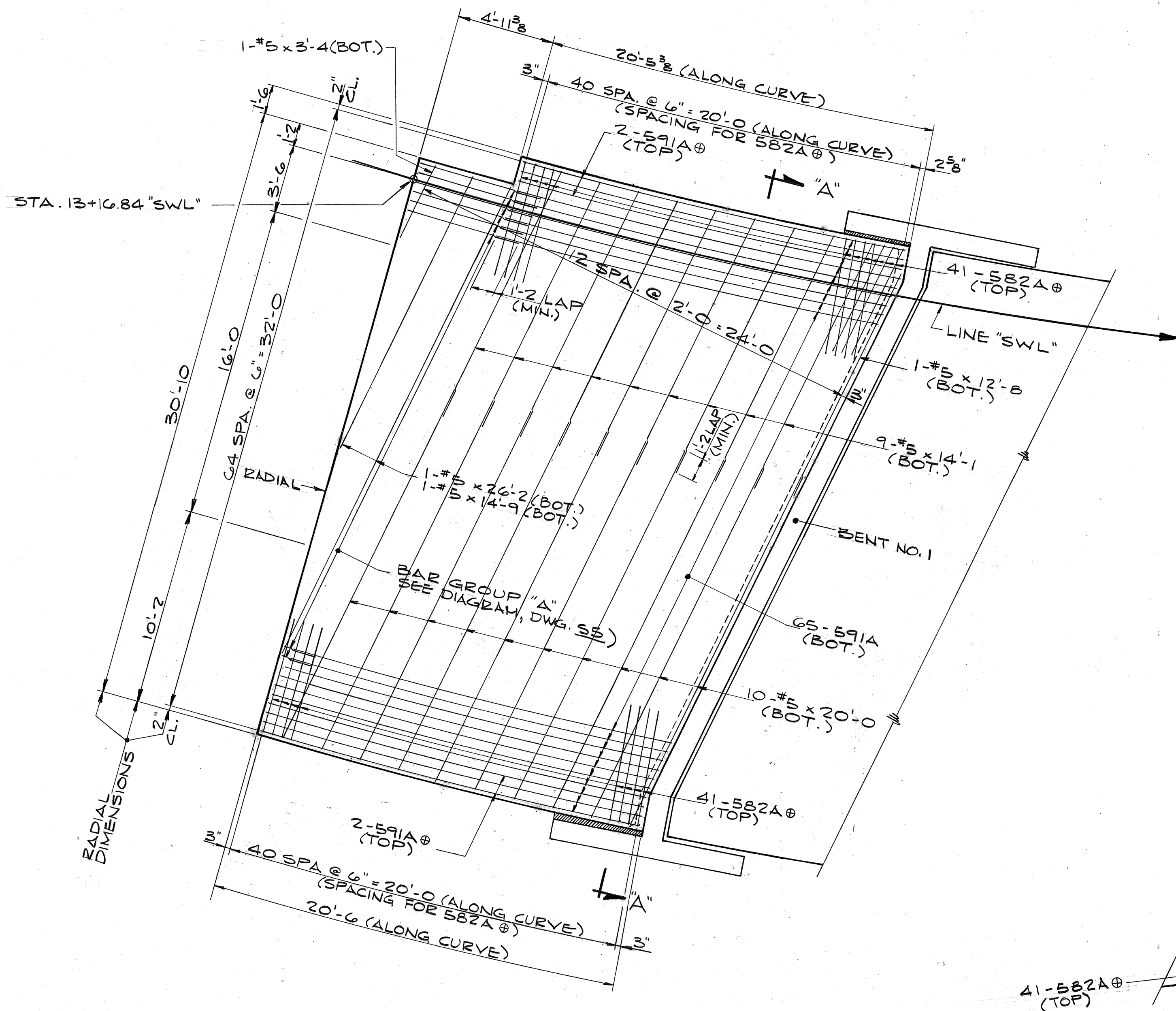
NOTE:
ALL SUPERSTRUCTURE REMOVAL, SUBSTRUCTURE REMOVAL AND EXISTING SIGN REMOVAL AS REFERENCED ABOVE TO BE PAID FOR AS STRUCTURE REMOVAL, PORTIONS.

NOTE:
FOR GENERAL NOTES AND LIST OF STANDARD DRAWINGS, SEE DWG. 52.

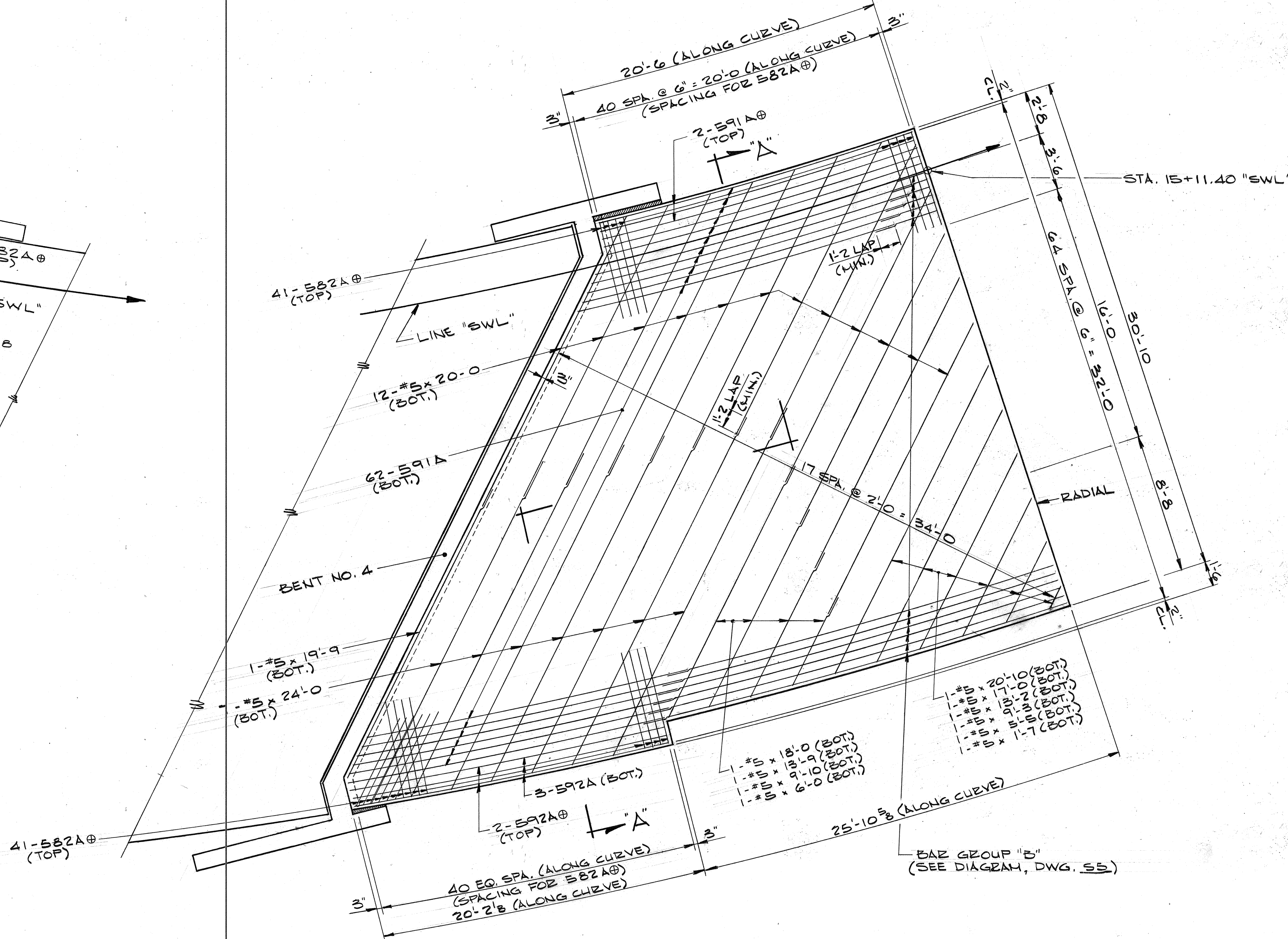
GENERAL PLAN
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
3 SPANS: 1 @ 48'-8 1/2; 1 @ 53'-0 1/6; 1 @ 38'-9 1/6 SKEW: 26° 20' 32" RT.
29'-4 CLEAR ROADWAY 465 RAMP OVER BRADBURY (W. B.)
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: - AS NOTED DATE: July 7 1992
DRAWING: S3 OF S19 SHEET: 10 OF 59
PROJECT: IR-465-4() STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649DRB





NORTH APPROACH SLAB PLAN
SCALE: 1/4" = 1'-0"



SOUTH APPROACH SLAB PLAN
SCALE: 1/4" = 1'-0"

⊕ - DENOTES EPOXY COATED REINFORCING STEEL.

NOTES:

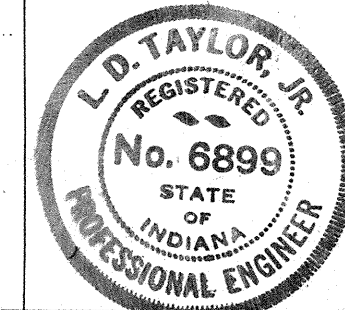
1. FOR REINFORCING BAR NOTES, SEE BR. STD. C1.
2. FOR GENERAL NOTES, SEE DWG. S2.
3. THE REMOVAL OF BITUMINOUS MATERIAL ON EXISTING R.C. APPROACH SLABS TO BE INCLUDED IN THE COST OF PAVEMENT REMOVAL.
4. THE COST OF WELDED WIRE FABRIC AND EXCAVATION FOR THE CONSTRUCTION OF R.C. BRIDGE APPROACH SLABS TO BE INCLUDED IN THE COST OF CONCRETE PAVEMENT (12").
5. FOR SECTION "A-A", LONGITUDINAL SECTION, BAR DETAILS AND BILL OF MATERIALS, SEE DWG. S3.
6. PROVIDE PREFORMED JOINT FILLER MATERIAL BETWEEN WINGWALLS AND EDGE OF R.C. APPROACH SLABS.

**R.C. APPROACH SLAB
INDIANA DEPARTMENT OF TRANSPORTATION**

SCALE: - AS NOTED

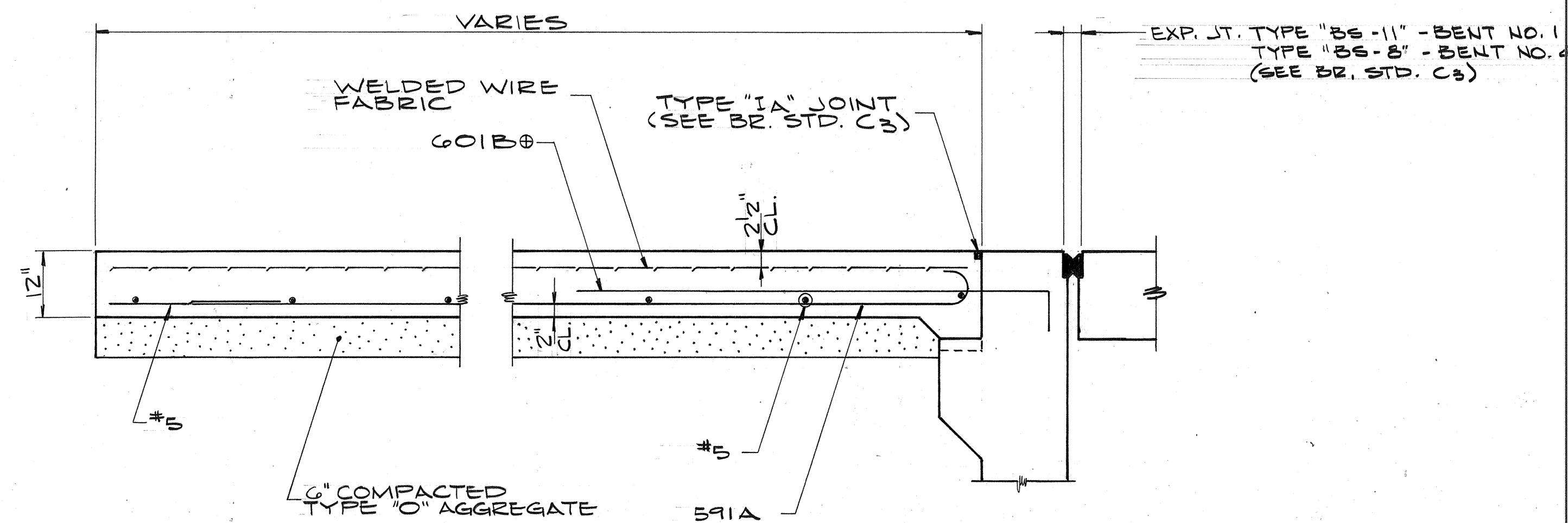
DATE: July 7 1992
SENIOR DESIGNER

DRAWING: S4 OF S19 SHEET: 11 OF 59
PROJECT: IR-465-4() STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649DRB

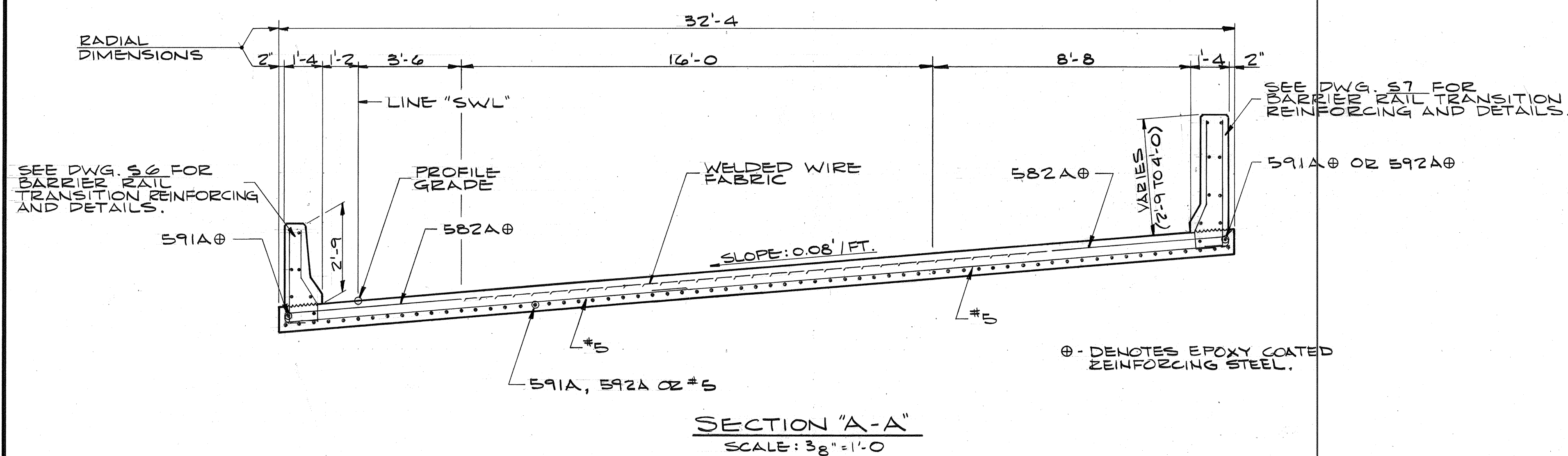


DESIGNED: C.K.D.
DRAWN: SF & SG C.K.D. LS
TRACED: C.K.D.

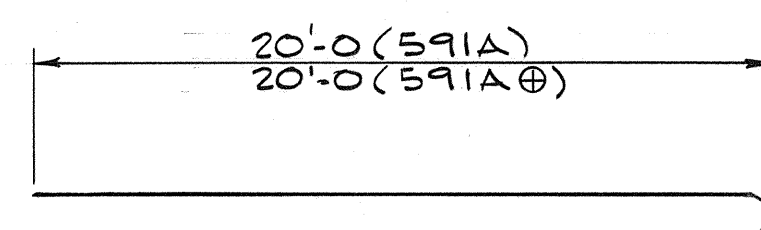
SF-22317



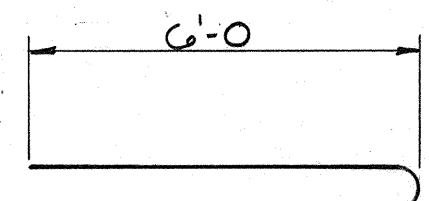
LONGITUDINAL SECTION THRU APPROACH SLAB
NO SCALE



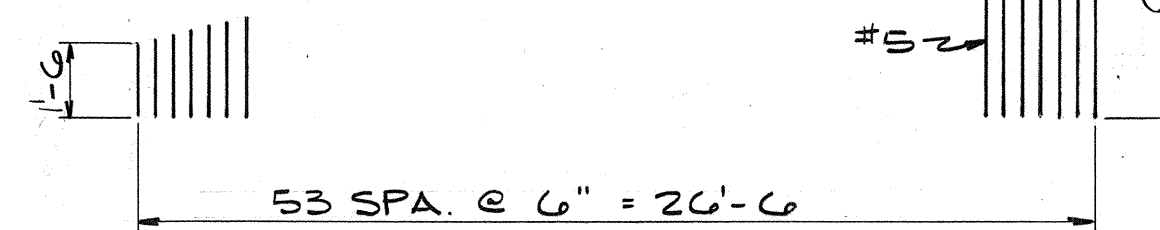
SECTION "A-A"
SCALE: 3/8" = 1'-0"



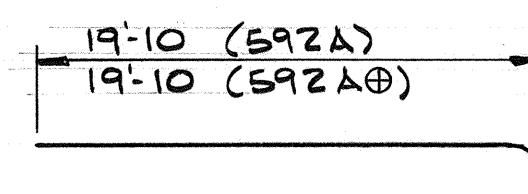
$$\frac{591A \times 20'-7}{591A \oplus \times 20'-7}$$



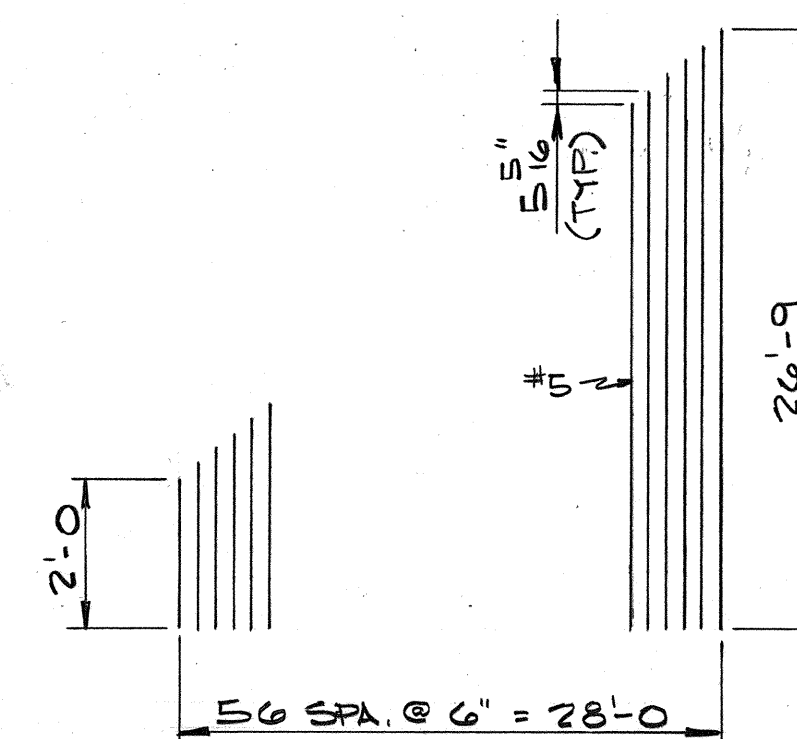
$$582A \oplus \times 6'-7$$



BAR GROUP "A"
TOTAL LENGTH = 211'-6"



$$\frac{592A \times 20'-5}{592A \oplus \times 20'-5}$$



BAR GROUP "B"
TOTAL LENGTH = 819'-5"

BILL OF MATERIALS NORTH R.C. APPR. SLAB

NO.	SIZE	NO. PCS.	LENGTH	WEIGHT
582A	⊕	82	6'-7	
591A	⊕	4	20'-7	
TOTAL #5				649 #
TOTAL EPOXY COATED REINF.				649 #
591A		65	20'-7	
#5		1	211'-6	GROUP "A"
#5		1	26'-2	
#5		10	20'-0	
#5		1	14'-9	
#5		9	14'-1	
#5		1	12'-8	
#5		1	3'-4	
TOTAL #5				2,016 #
TOTAL UNCOATED REINF.				2,016 #
CONCRETE				
CONCRETE PAVEMENT,				
REINF., 12"				81.6 SY.
MISCELLANEOUS				
TYPE "O" COMPACTED AGG.				27.2 TON

SOUTH R.C. APPR. SLAB

NO.	SIZE	NO. PCS.	LENGTH	WEIGHT
582A	⊕	82	6'-7	
591A	⊕	2	20'-7	
592A	⊕	2	20'-5	
TOTAL #5				649 #
TOTAL EPOXY COATED REINF.				649 #
591A		62	20'-7	
592A		3	20'-5	
#5		1	819'-5	GROUP "B"
#5		7	24'-0	
#5		1	20'-10	
#5		12	20'-0	
#5		1	19'-9	
#5		1	18'-0	
#5		1	17'-0	
#5		1	13'-9	
#5		1	13'-2	
#5		1	9'-10	
#5		1	9'-3	
#5		1	6'-0	
#5		1	5'-5	
#5		1	1'-7	
TOTAL #5				2,815 #
TOTAL UNCOATED REINF.				2,815 #
CONCRETE				
CONCRETE PAVEMENT,				
REINF., 12"				115.3 SY.
MISCELLANEOUS				
TYPE "O" COMPACTED AGG.				38.4 TON

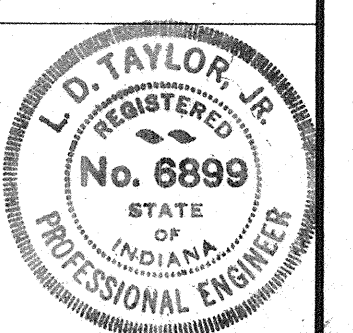
R.C. APPROACH SLAB DETAILS INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: - AS NOTED

DATE: July 7 1992

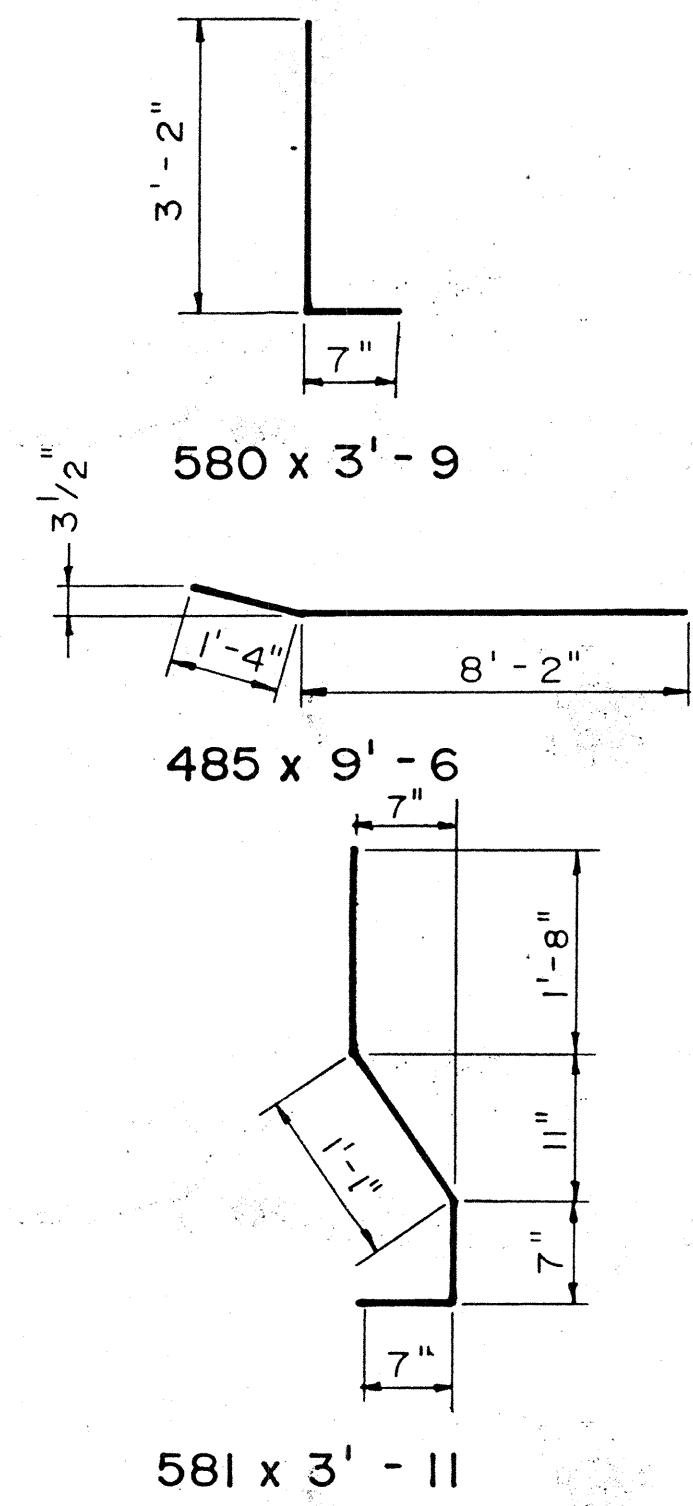
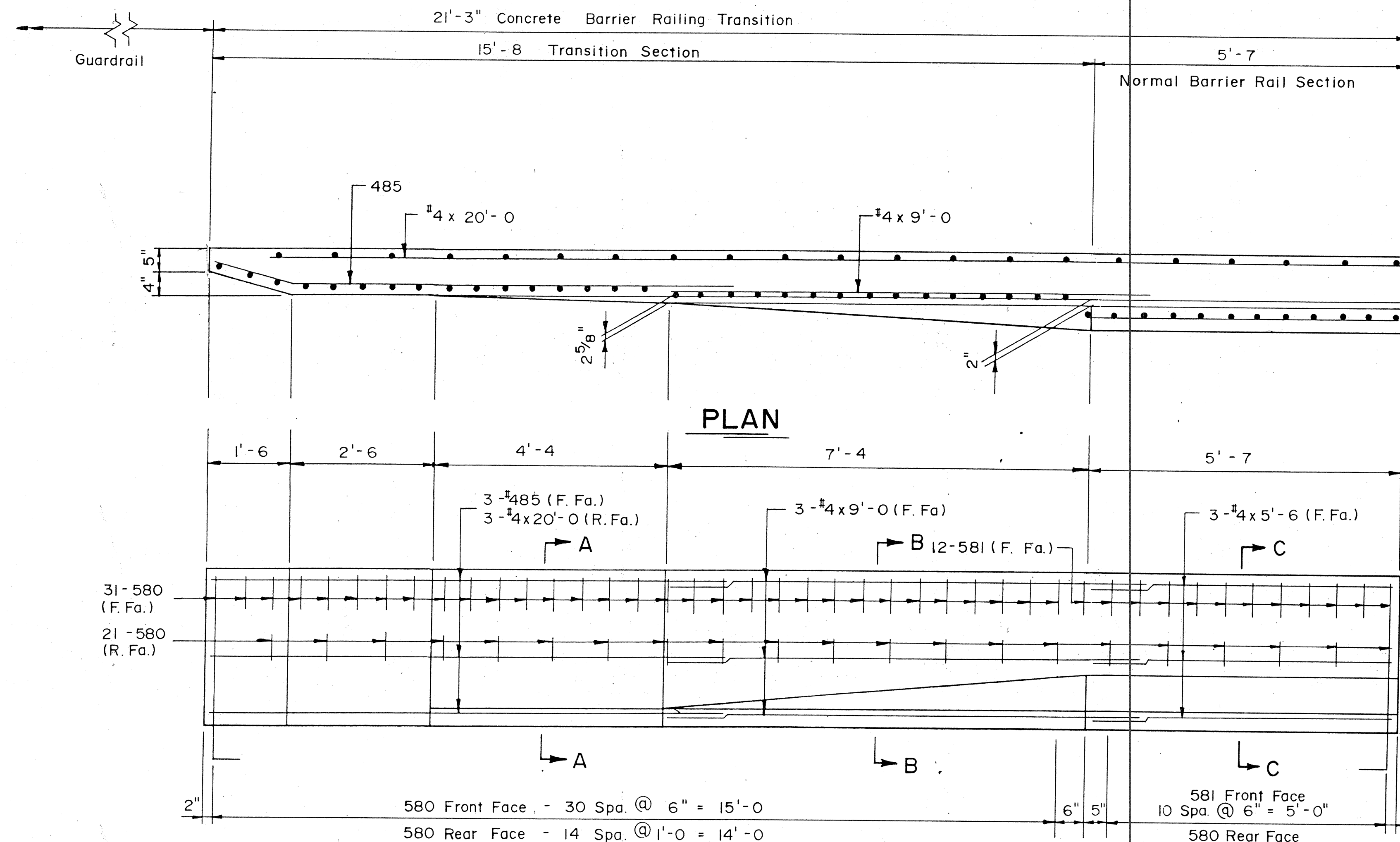
SENIOR DESIGNER

DRAWING: S5 OF S19 SHEET: 12 OF 59
PROJECT: IR - 465 - 4() STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649 DRB

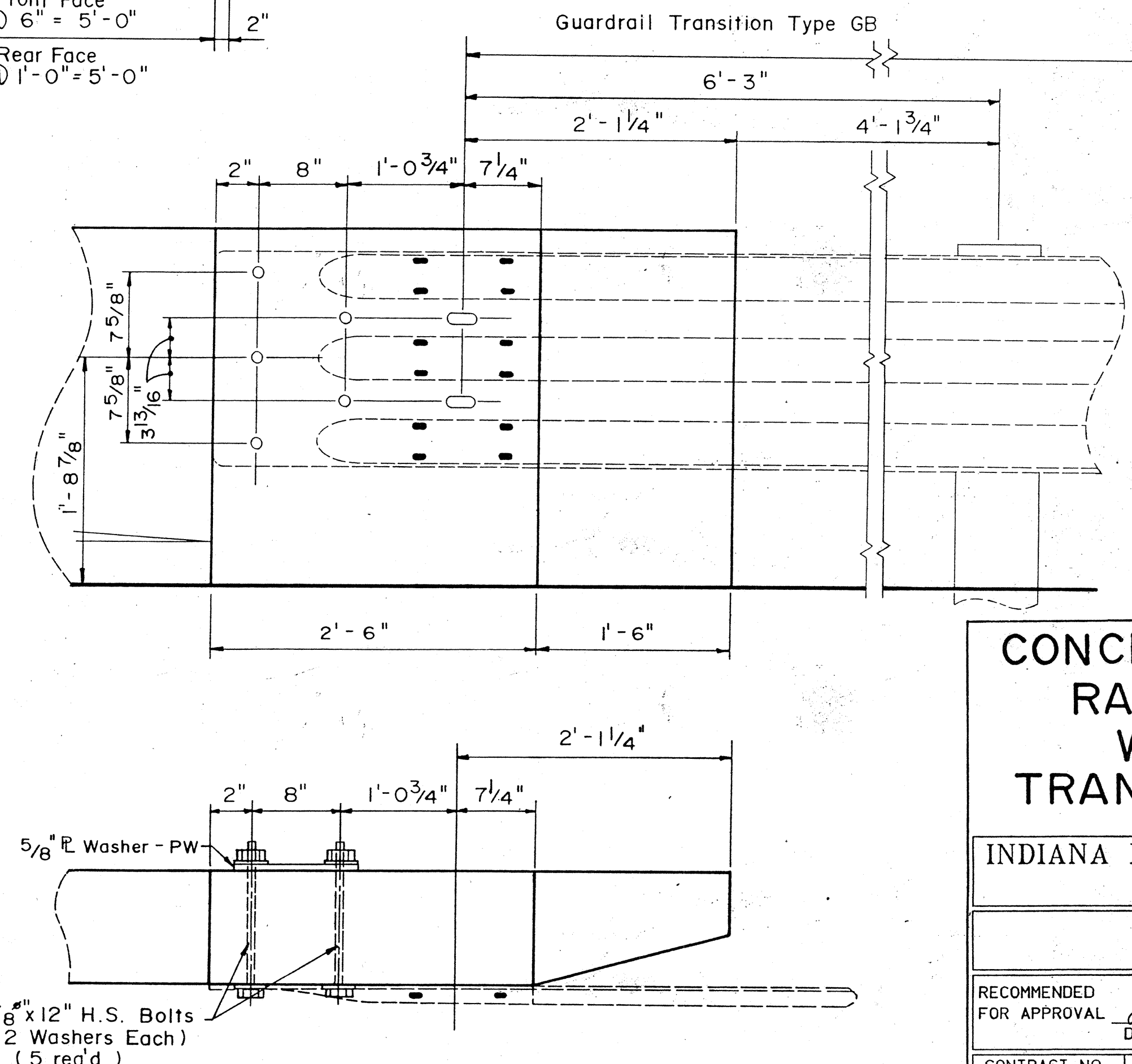
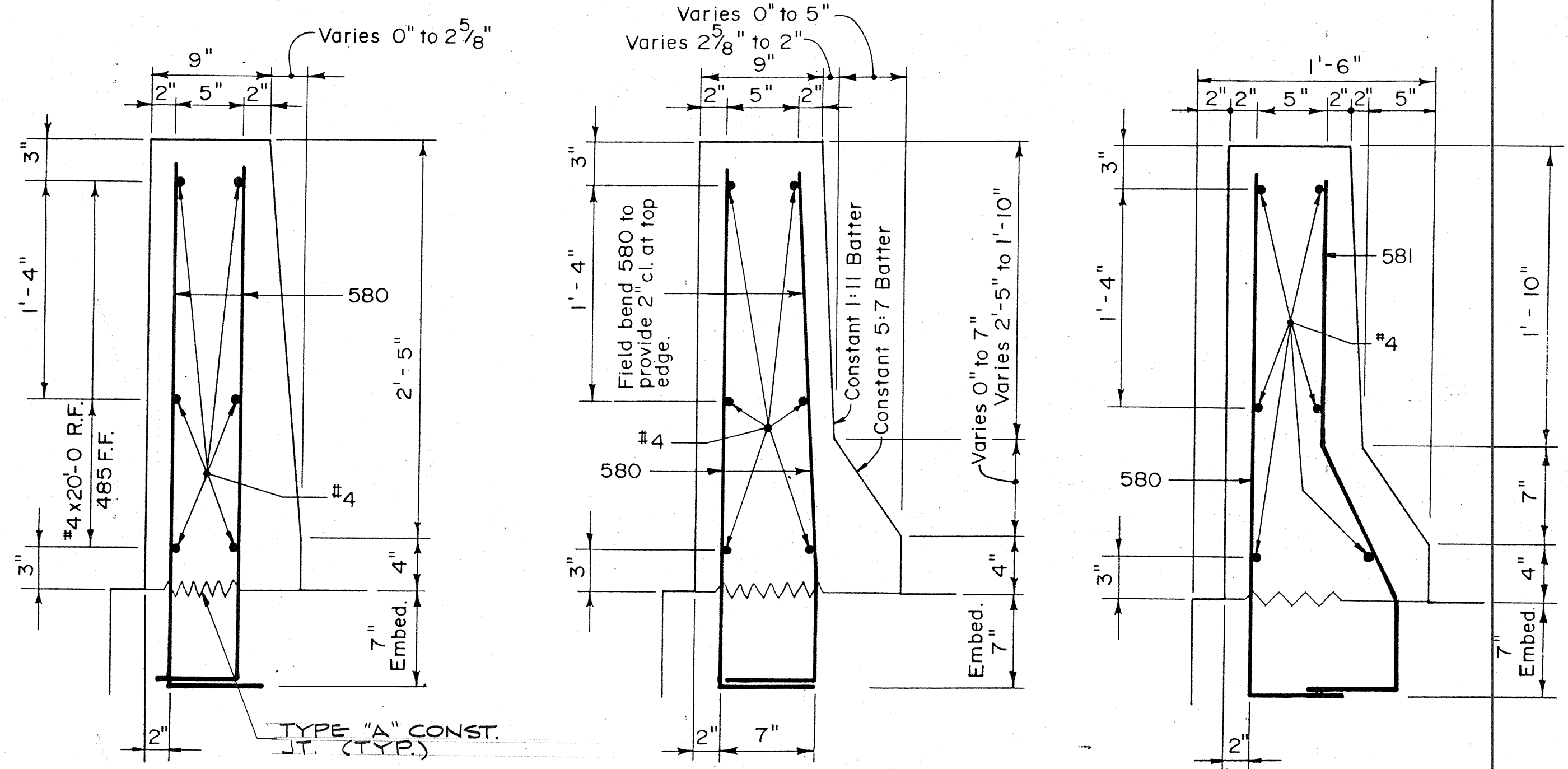
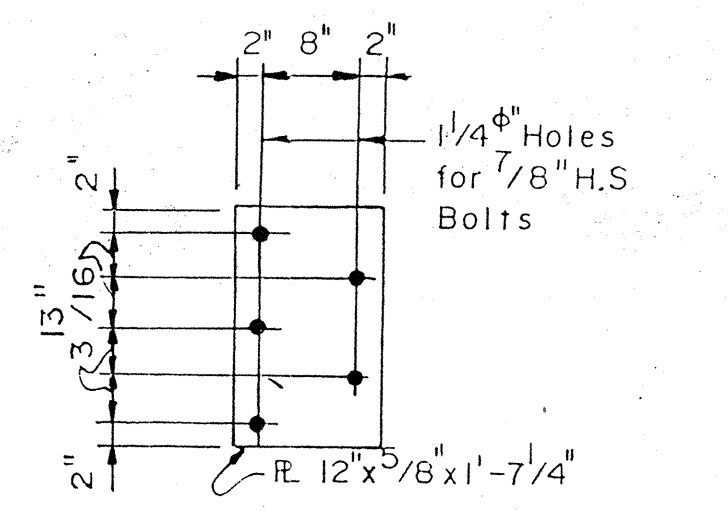


DESIGNED: C.K.D.
DRAWN: SLG C.K.D. LS
TRACED: C.K.D.

SF-22317



BILL OF MATERIALS				BILL OF MATERIALS			
EPOXY COATED REINF. STEEL				REINFORCING STEEL			
SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT	SIZE & MARK	NO. OF BARS	LENGTH	WEIGHT
580	52	3'-9"					
581	12	3'-11"					
Total # 5			252#				
485	3	9'-6"					
#4	3	20'-0"					
#4	3	9'-0"					
#4	3	5'-6"					
Total # 4			88#				
Total Epoxy Coated Stil.			340#				
Class "C" Concrete Railing							1.9 Cys.
SURFACE SEAL							140 S.F.



CONCRETE BARRIER BRIDGE RAILING TRANSITION W/ THRIE BEAM TRANSITION CONNECTION

INDIANA DEPARTMENT OF TRANSPORTATION

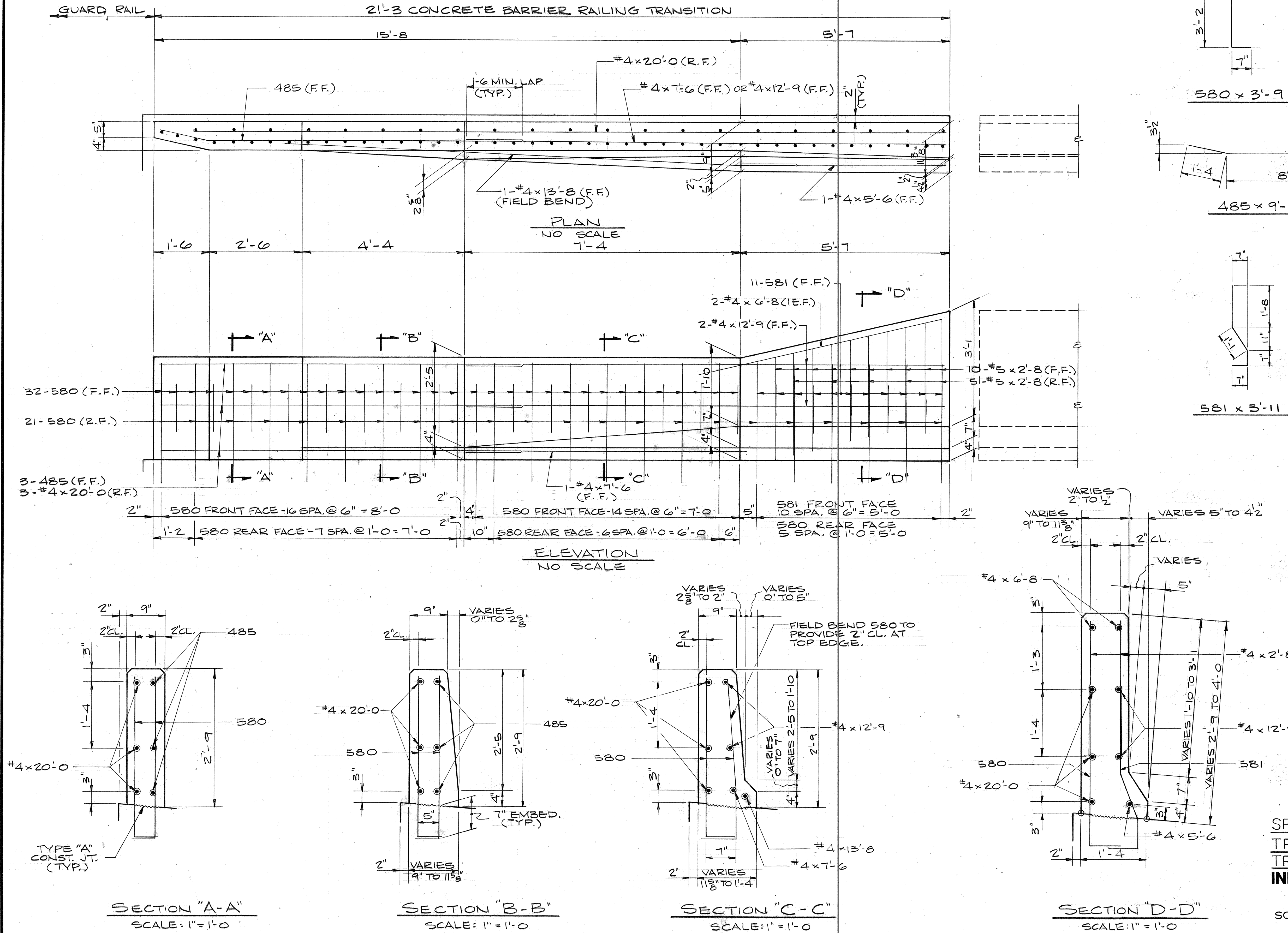
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
CONTRACT NO.		STRUCTURE NO.			
DES. NO.		PROJECT NO.		YEAR	
17215		IR-465-4()		199	
				SHEET TOTAL	
				13 59	



ATTACHMENT TO GUARDRAIL TRANSITION TYPE GB

BILL OF MATERIALS

NO.	SIZE	NO. PCS.	LENGTH	WEIGHT
580	53	3	3'-9"	
581	11	1	3'-11"	
#5	15	2	2'-8"	
TOTAL #5				294 #
485	3	3	9'-6"	
#4	3	3	20'-0"	
#4	1	1	13'-8"	
#4	2	2	12'-9"	
#4	1	1	7'-6"	
#4	2	2	6'-8"	
#4	1	1	5'-6"	
TOTAL #4				103 #
TOTAL EPOXY COATED REINF.				397 #
CLASS 'C' CONC. RAILING				2.1 C.Y.
SURFACE SEAL				149 S.F.



- NOTES:
1. ALL REINFORCING STEEL TO BE EPOXY COATED.
 2. ALL EXPOSED SURFACES OF BARRIER RAILING TRANSITION TO BE SURFACE SEALED.
 3. FOR REINFORCING BAR NOTES, SEE BR. STD. C1.
 4. FOR TYPE 'A' CONST. JT. DETAIL, SEE BR. STD. C3.
 5. FOR GUARDRAIL TRANSITION TYPE GB ATTACHMENT DETAILS, SEE DWG. S6.

SPECIAL CONCRETE BARRIER BRIDGE RAILING TRANSITION W/ THRIE BEAM TRANSITION CONNECTION INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: -AS NOTED

DATE: July 7, 1992

DESIGNED: C.K.D. DRAWN: M.M. C.K.D. L.S. TRACED: C.K.D.

DRAWING: S7 OF S19 SHEET: 14 OF 59

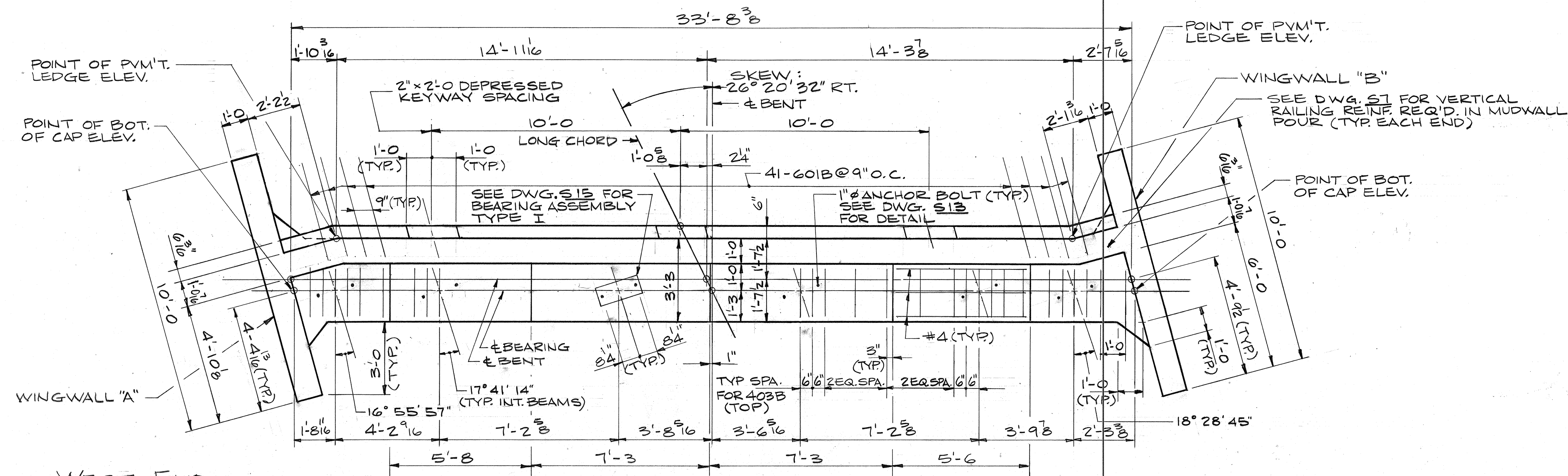
PROJECT: IR-465-4() STATION: -

BRIDGE CONTRACT NO. B-19705

BRIDGE FILE: I-465-154-4649DRB

SENIOR DESIGNER: L.D. Taylor, Jr.

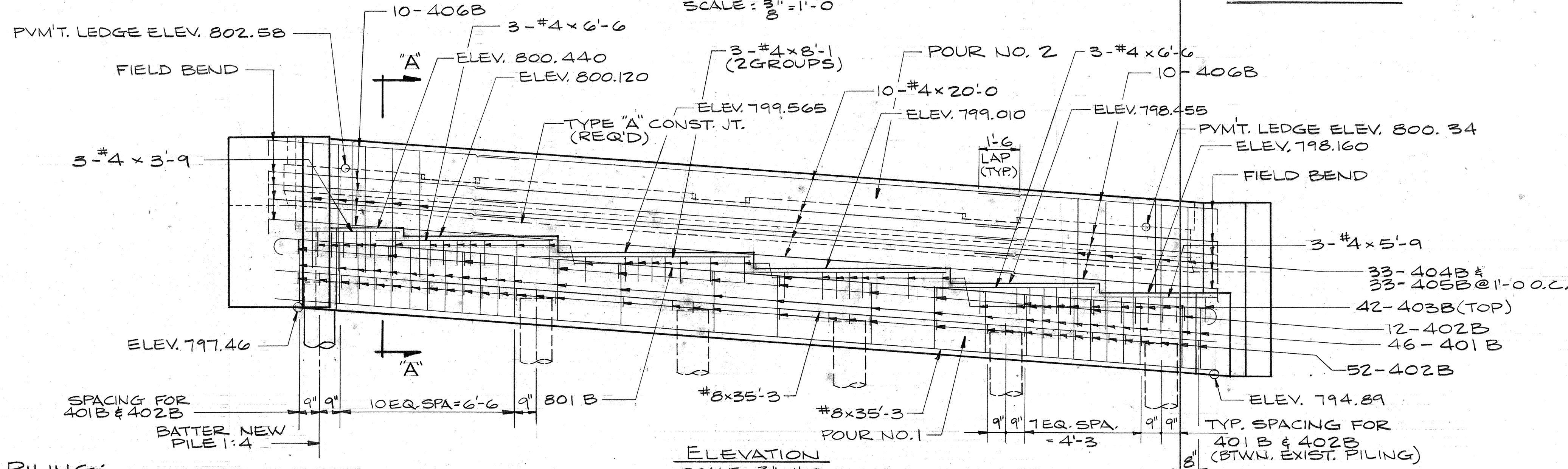
L.D. TAYLOR, JR.
REGISTERED
No. 6899
STATE OF INDIANA
PROFESSIONAL ENGINEER



WEST END

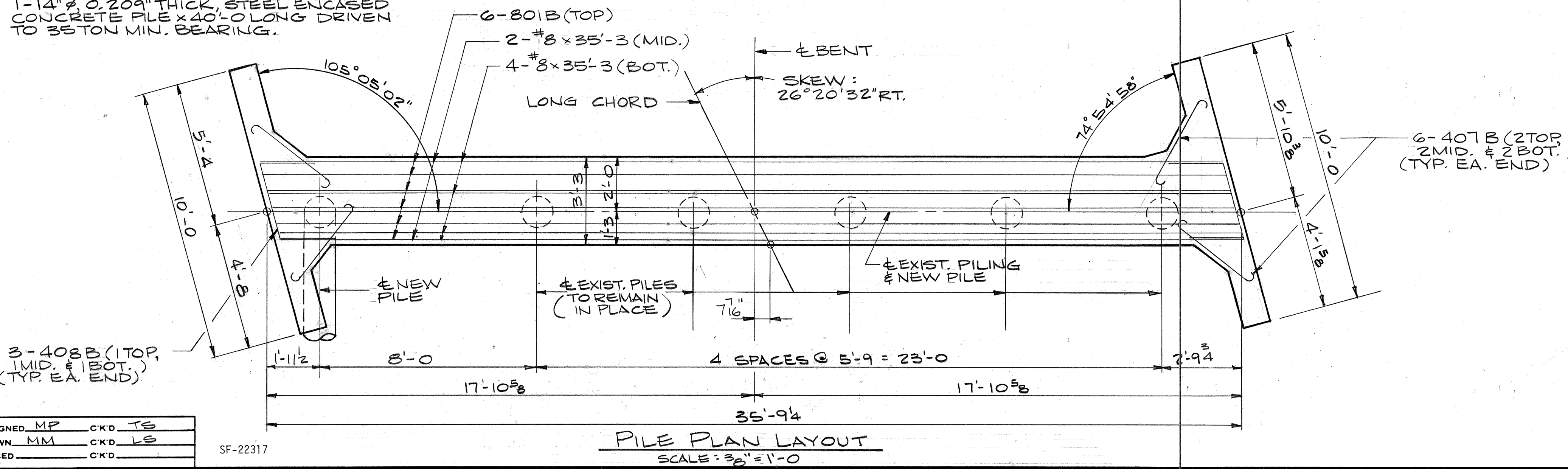
CAP PLAN
SCALE: 3/8" = 1'-0"

EAST END



ELEVATION
SCALE: 3/8" = 1'-0"

PILING:
1-14" x 0.209" THICK, STEEL ENCASED
CONCRETE PILE x 40'-0" LONG DRIVEN
TO 35 TON MIN. BEARING.



PILE PLAN LAYOUT
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

NO.	PCS.	LENGTH	WEIGHT
801B	6	37'-1"	
#8	6	35'-3"	
TOTAL #8			1,159#
601B	41	4'-9"	
TOTAL #6			293#
#5	28	9'-8"	
TOTAL #5			282#
401B	46	8'-11"	
402B	64	3'-11"	
403B	42	4'-1"	
404B	33	9'-4"	
405B	33	4'-1"	
406B	20	9'-7"	
407B	12	4'-6"	
408B	6	6'-11"	
#4	10	20'-0"	
#4	12	9'-8"	
#4	6	8'-1"	
#4	6	6'-6"	
#4	32	5'-11"	
#4	3	5'-9"	
#4	3	3'-9"	
TOTAL #4			1,459#
TOTAL EPOXY COATED REINF.			3,193#
CONCRETE			
POUR NO. 1 - CLASS "A"			16.5 C.Y.
TOTAL CLASS "A" CONC.			16.5 C.Y.
POUR NO. 2 - CLASS "C"			5.7 C.Y.
TOTAL CLASS "C" CONC.			5.7 C.Y.
MISCELLANEOUS			
SURFACE SEAL			222 S.F.
1-1/4" x 0.209" THICK, STEEL			
ENCASED CONC. PILE x 40'-0"			40 L.F.

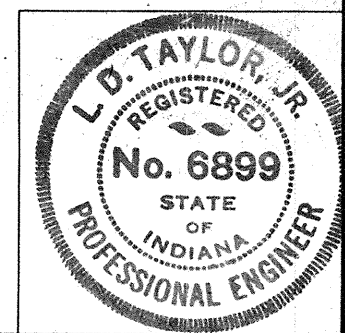
NOTES:

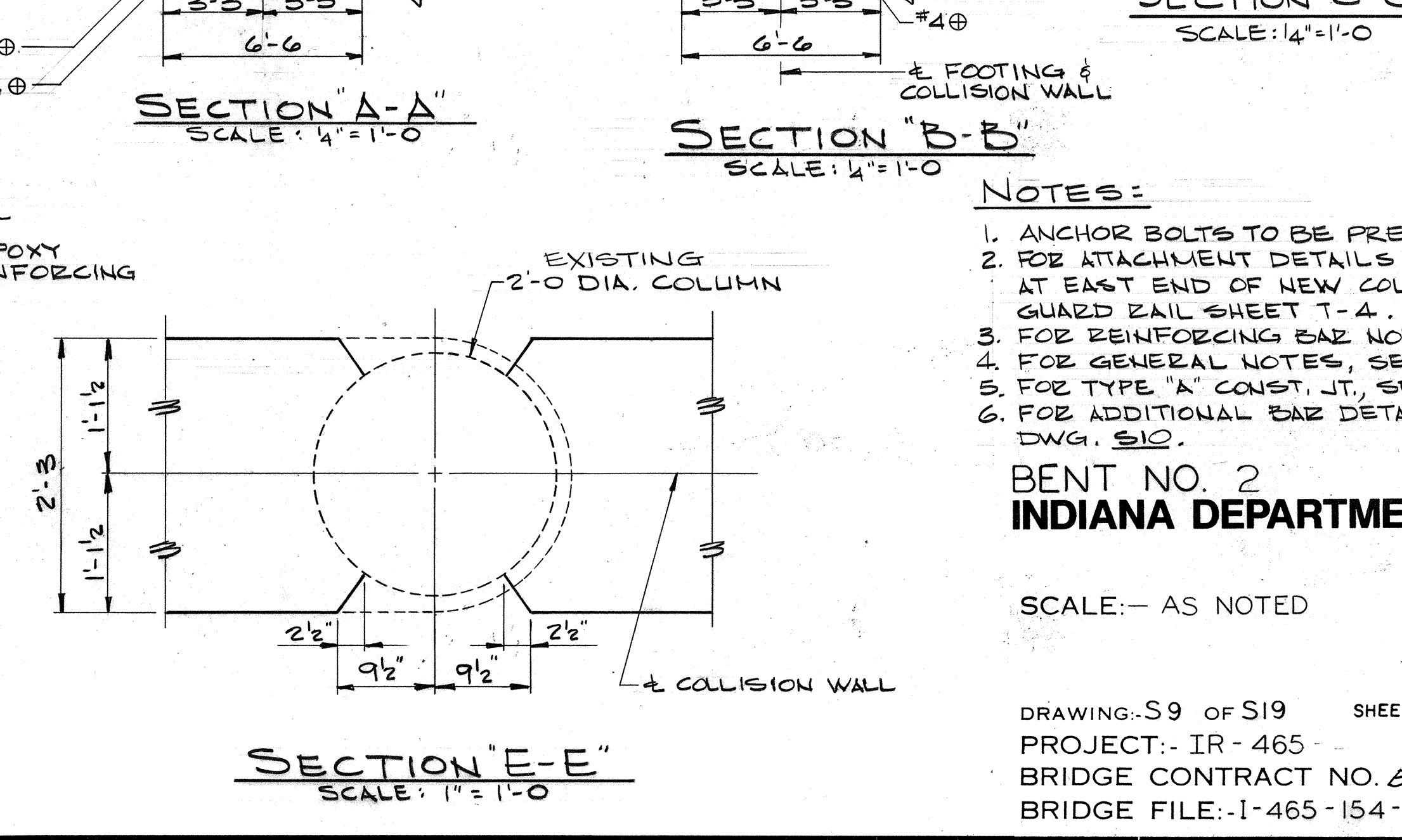
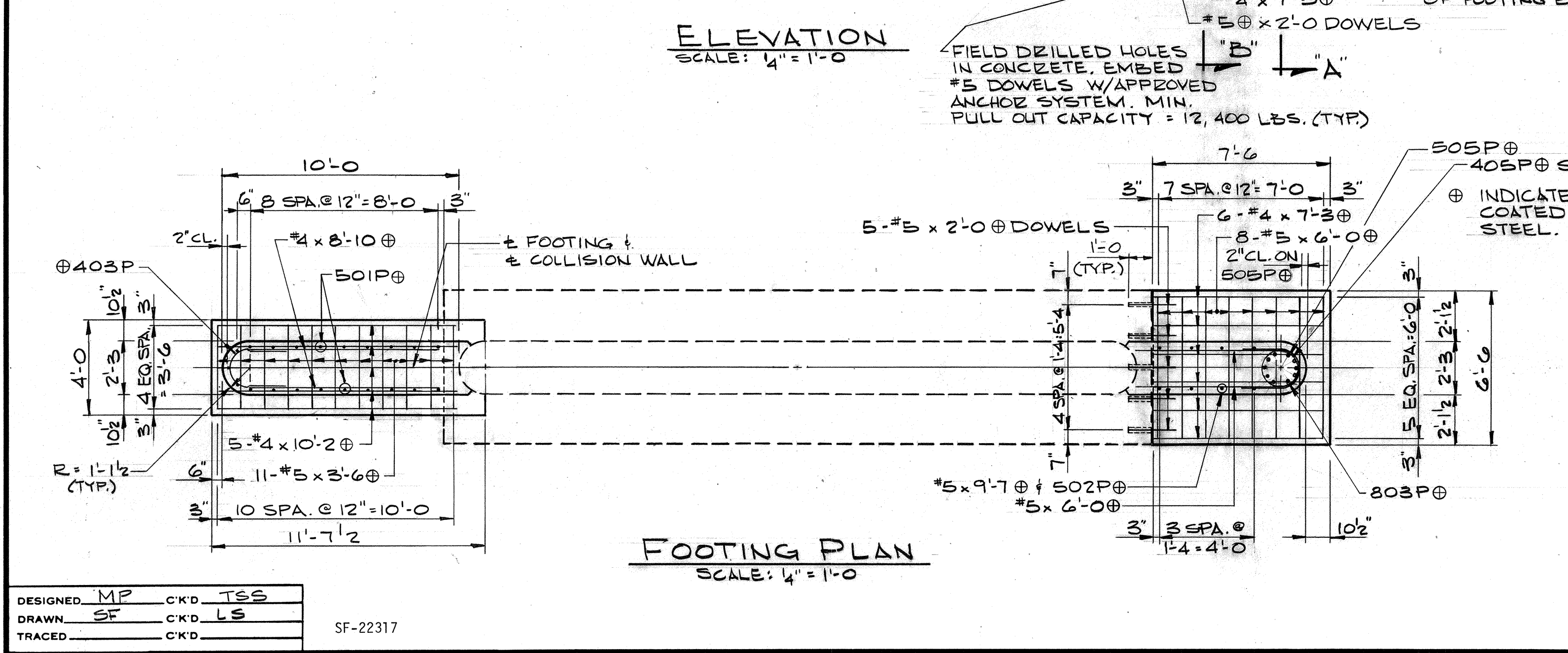
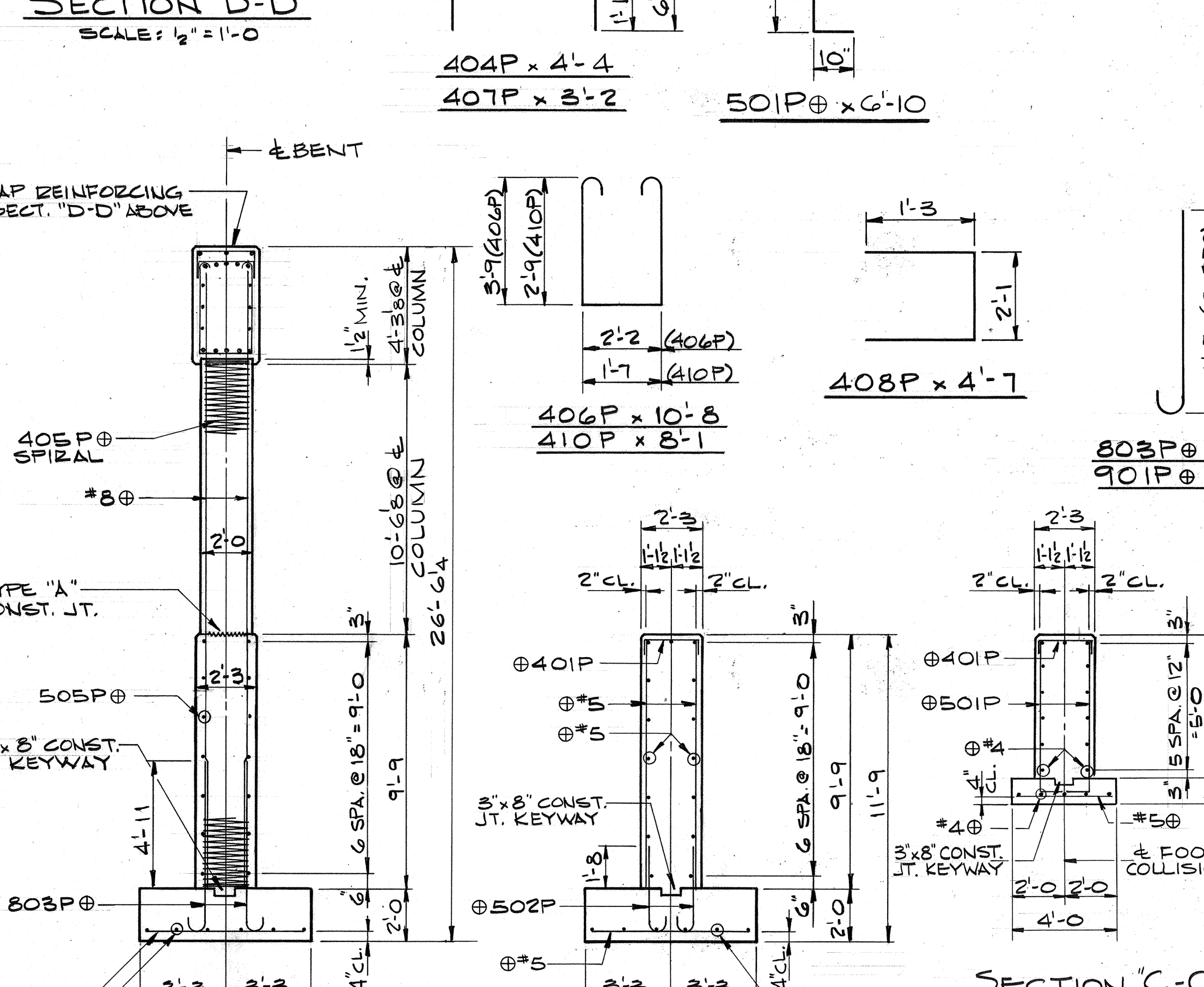
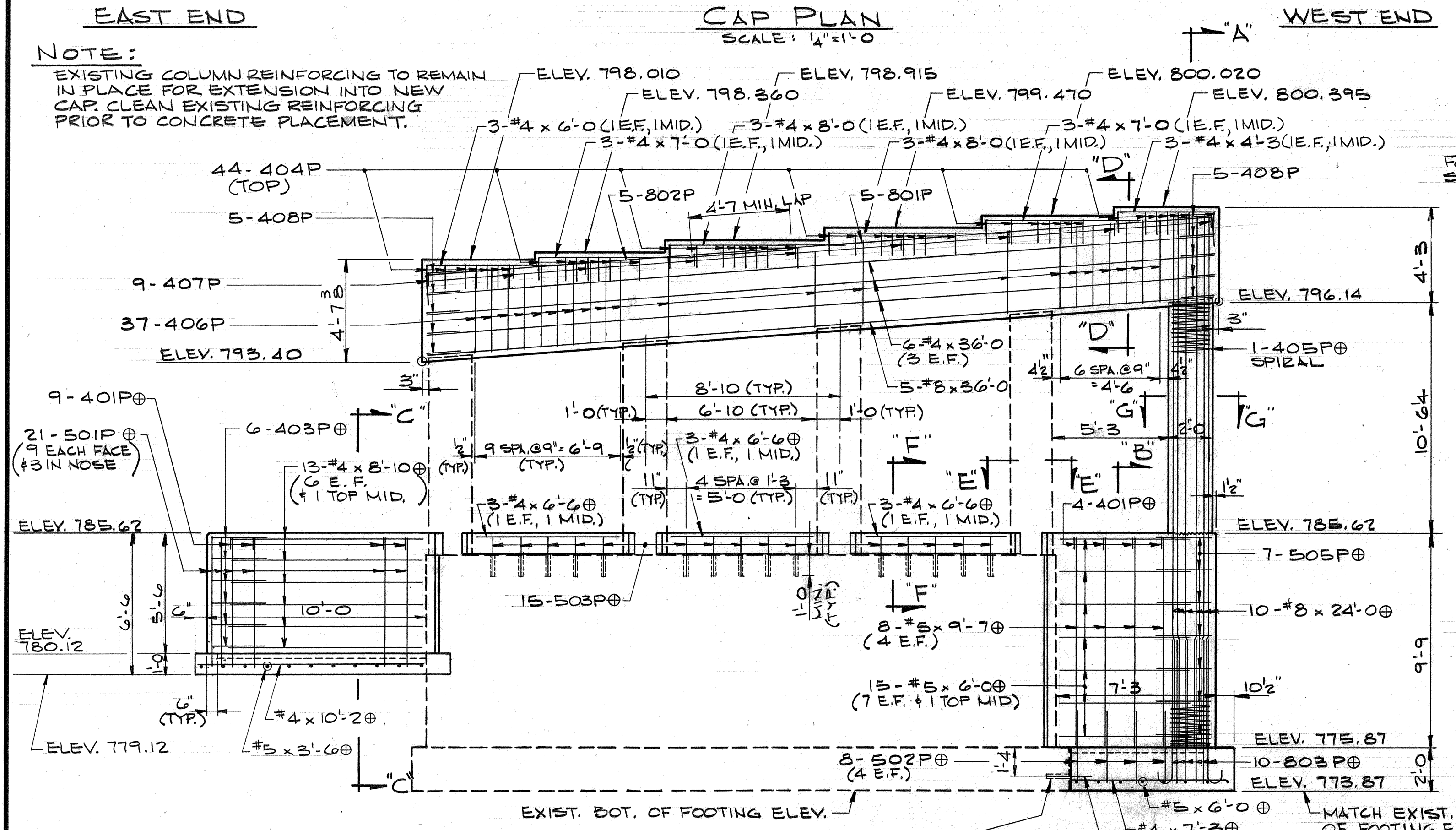
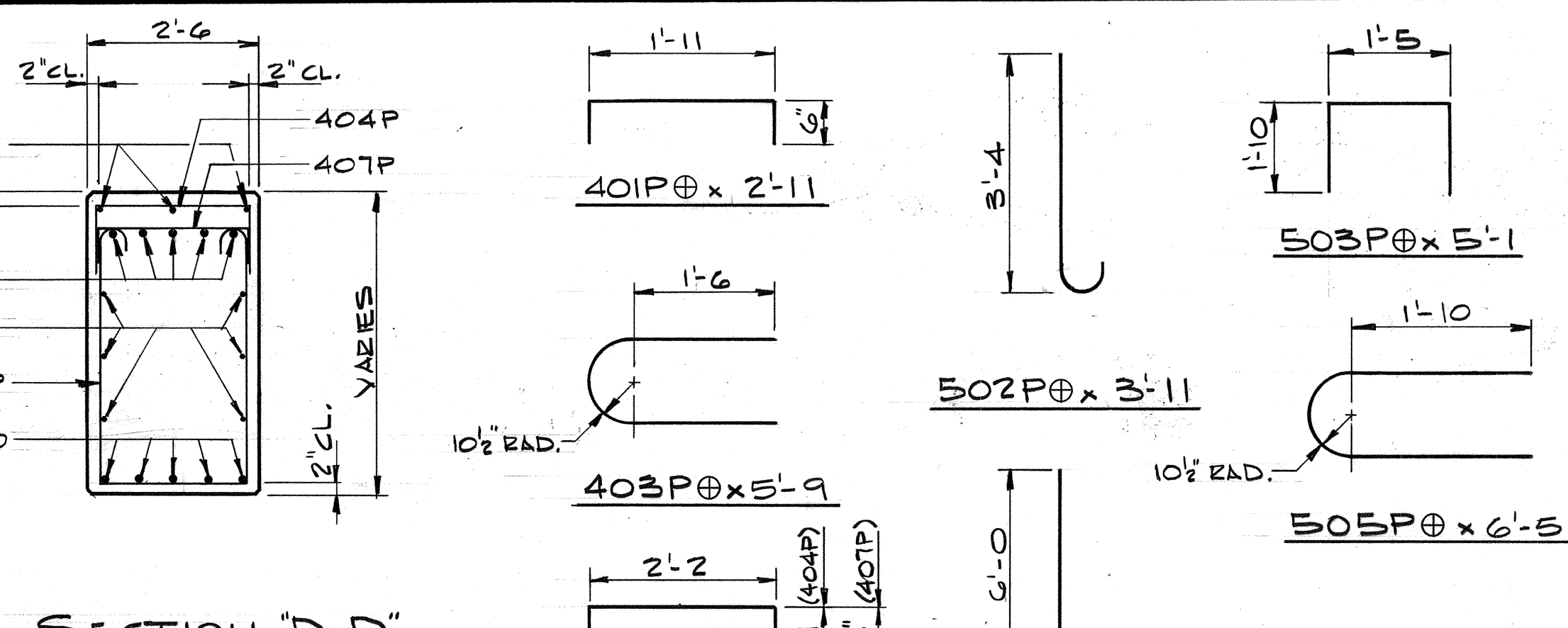
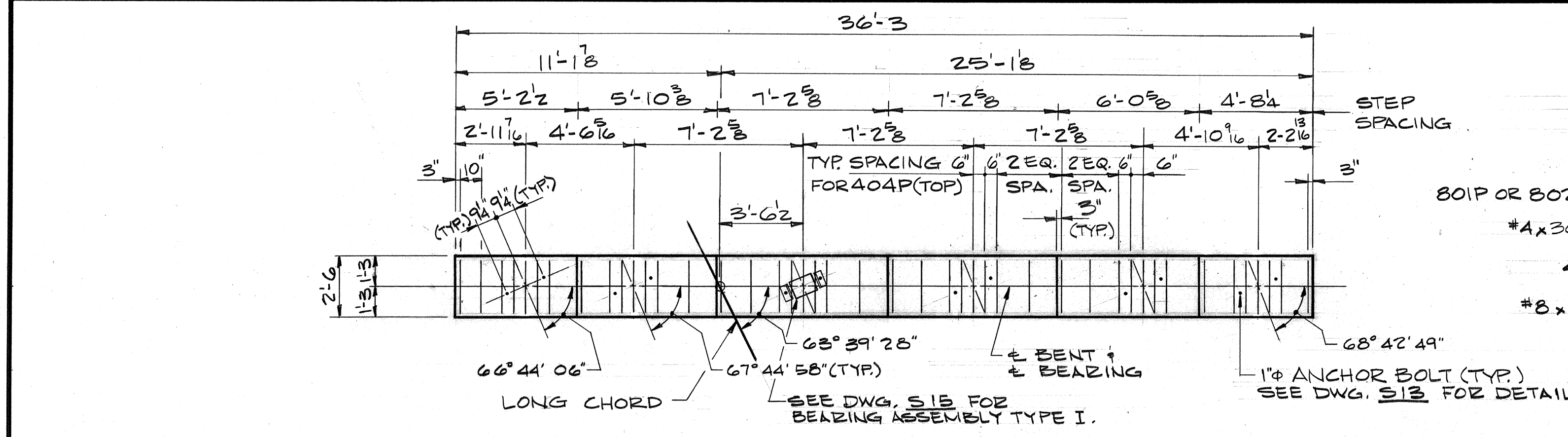
- FOR REINFORCING BAR NOTES, SEE BR. STD. C1.
- FOR TYPE "A" CONST. JT. SEE BR. STD. C2.
- FOR GENERAL NOTES, SEE DWG. S2.
- FOR WINGWALL DETAILS, MUDWALL ELEVATIONS, SECTION "A-A" AND BAR DETAILS, SEE DWG. S12.
- ALL REINFORCING STEEL TO BE EPOXY COATED.
- ANCHOR BOLTS TO BE PRESET IN CONCRETE.
- POUR NO. 2 TO BE POURED AFTER SUPERSTRUCTURE SLAB IS POURED.

BENT NO. 1
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: -AS NOTED DATE: July 7 1992

DRAWING: S8 OF S19 SHEET: 15 OF 59
PROJECT: IR-465 STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649DRB



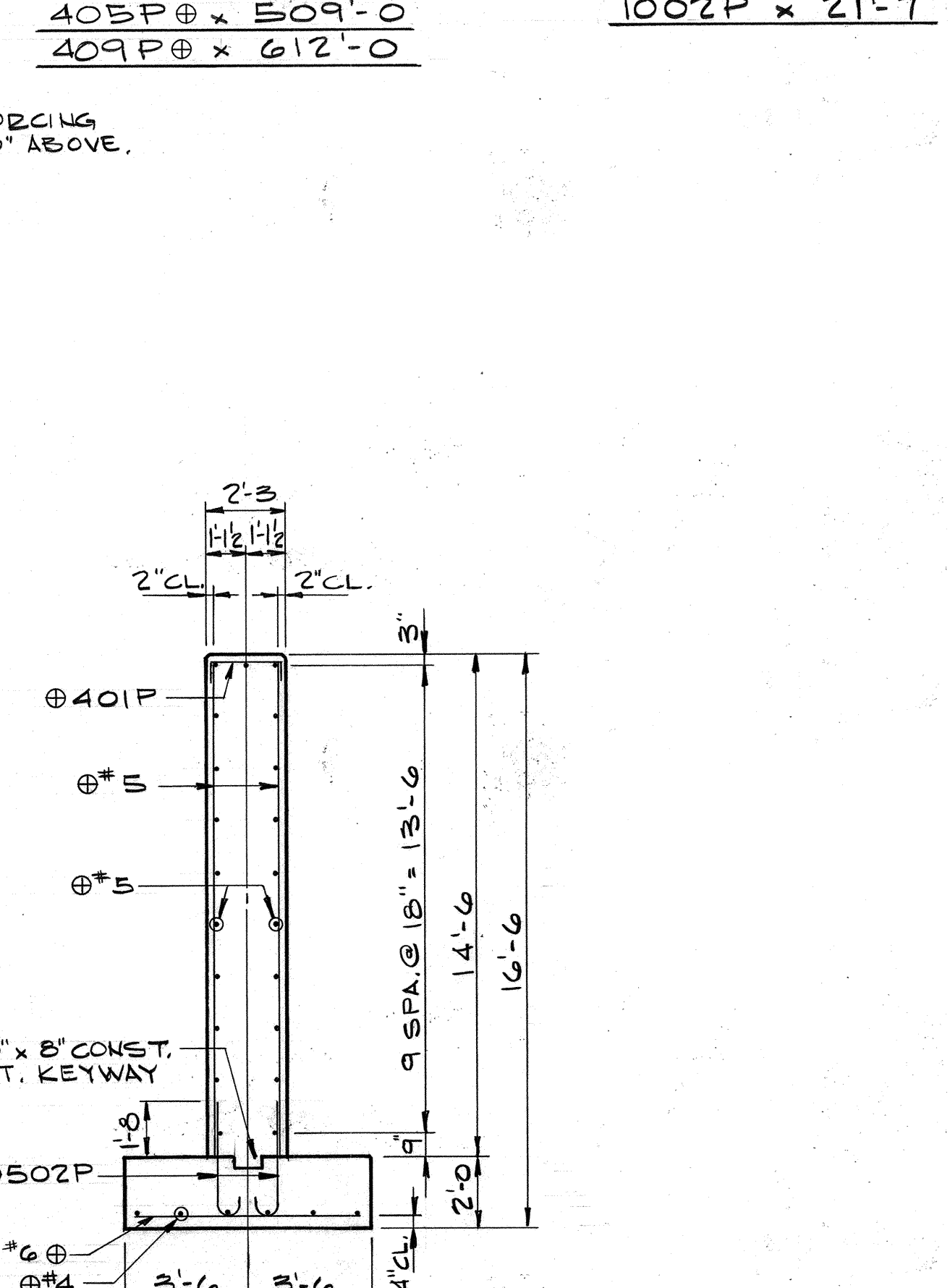
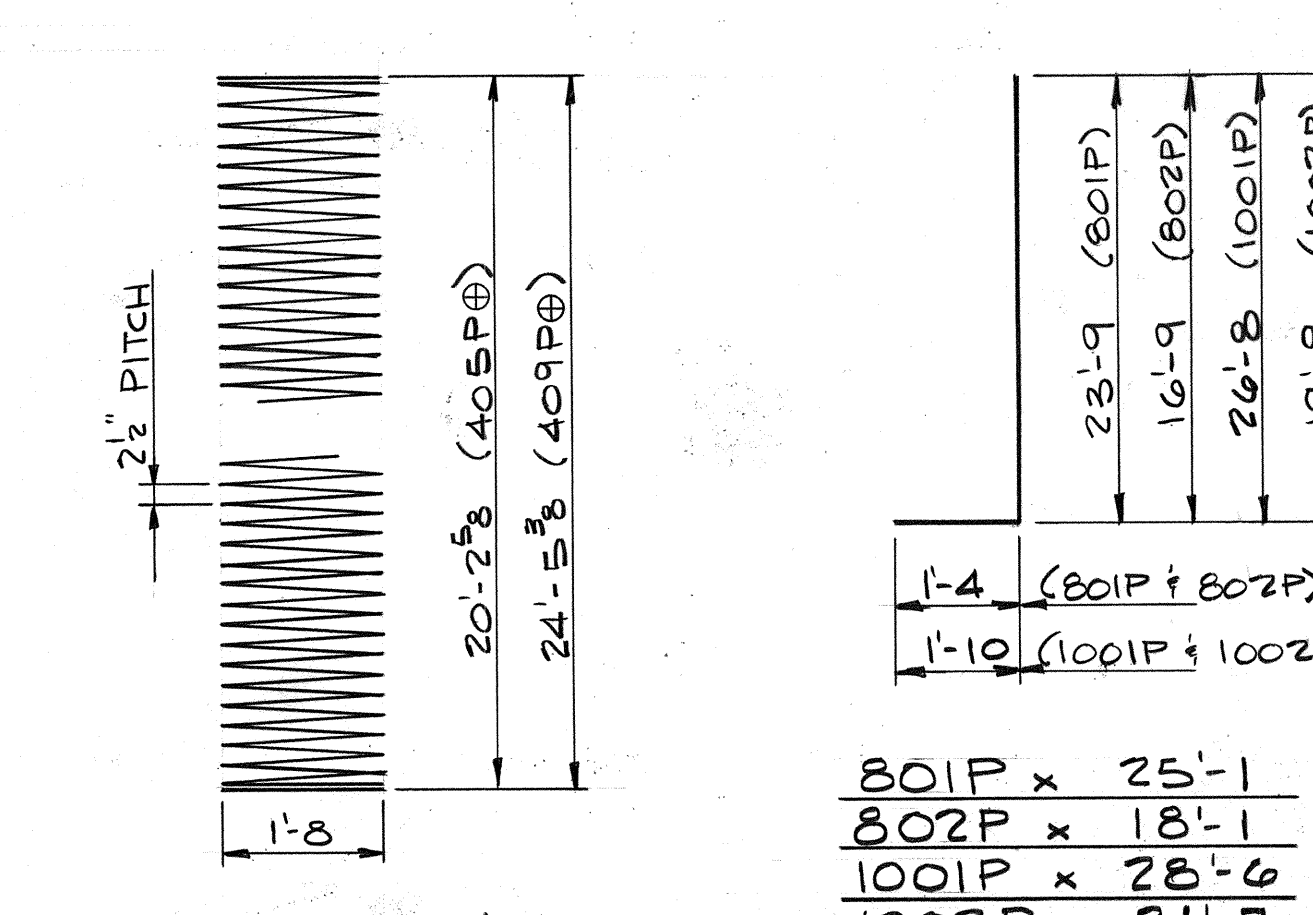
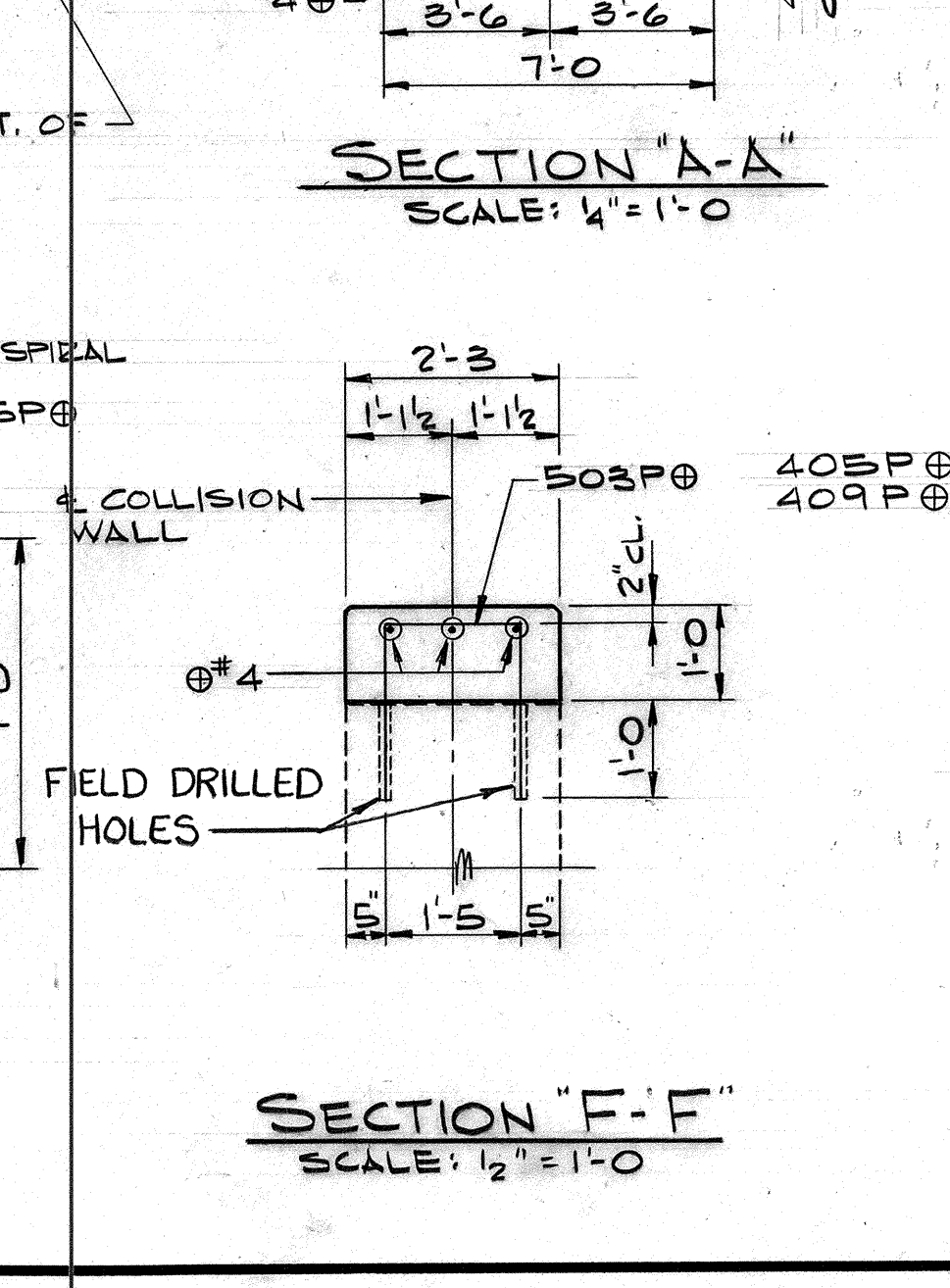
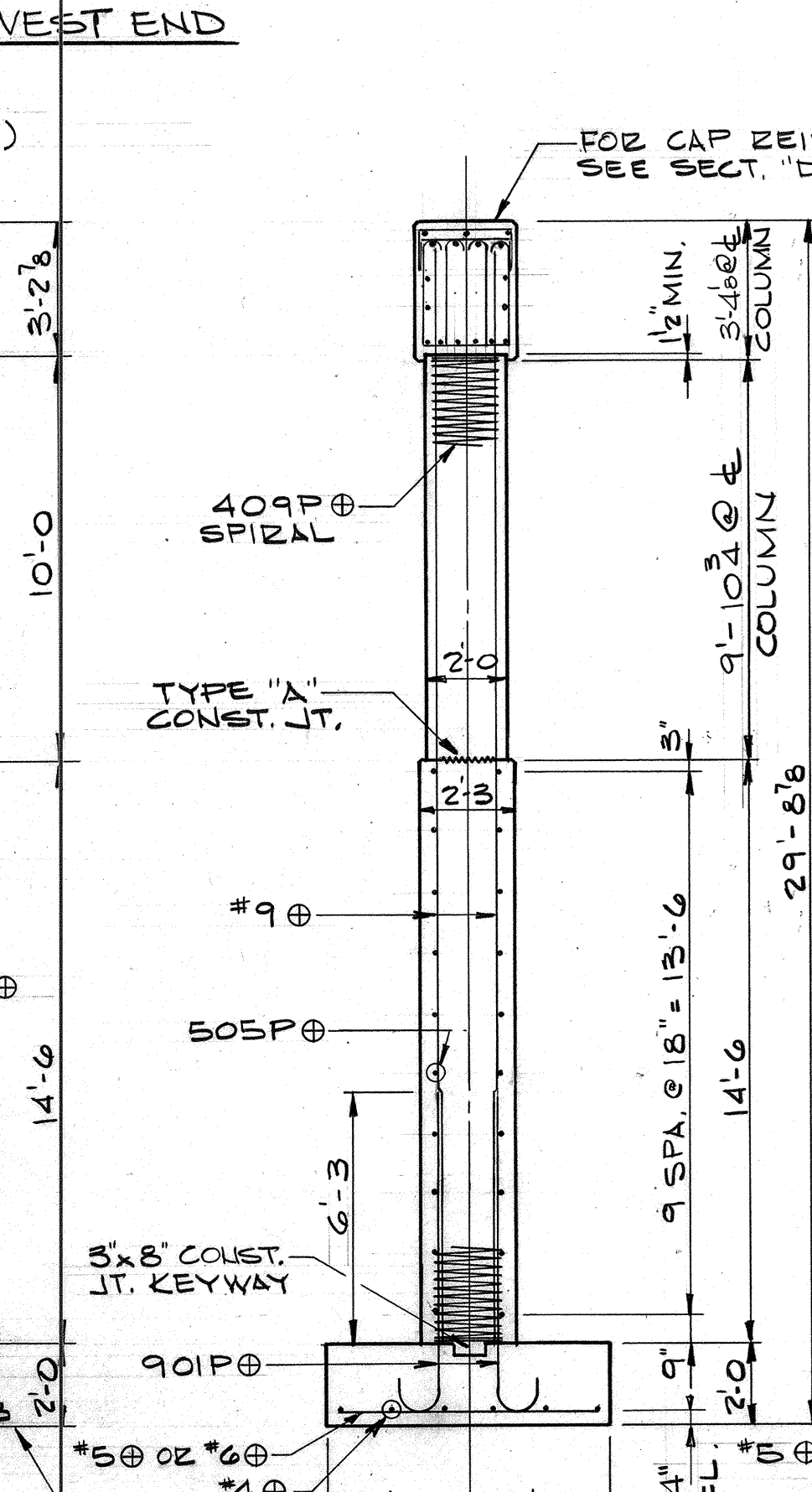
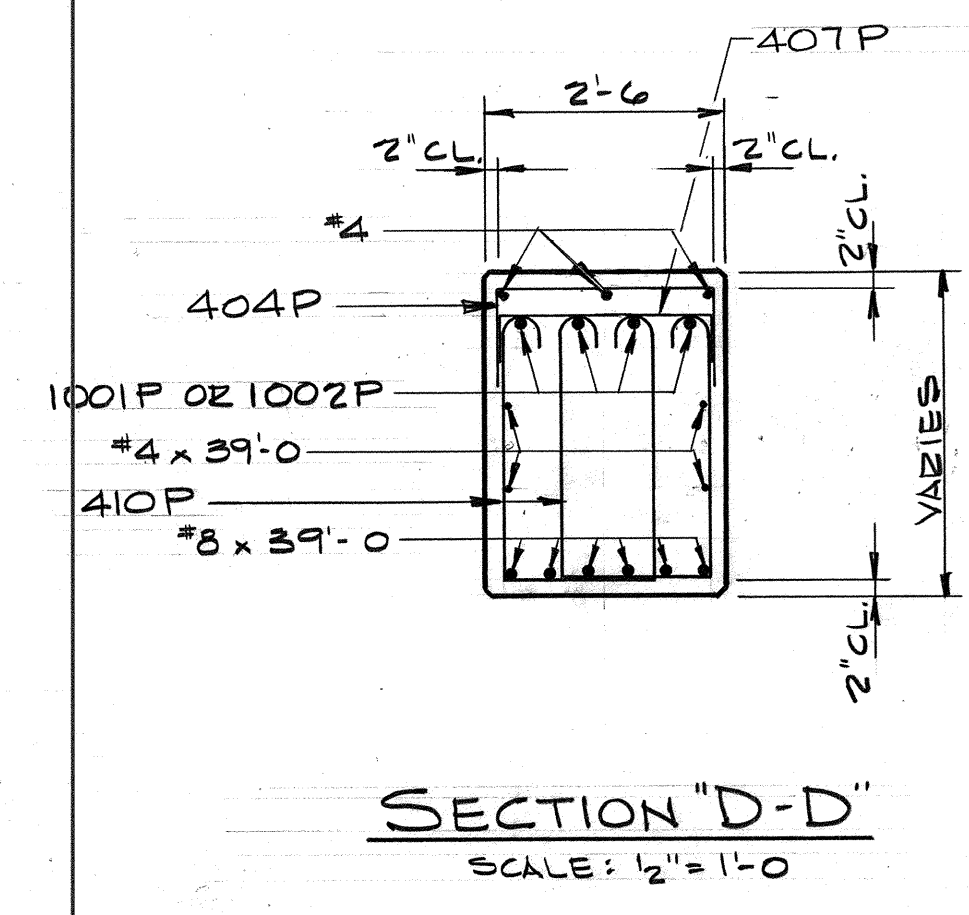
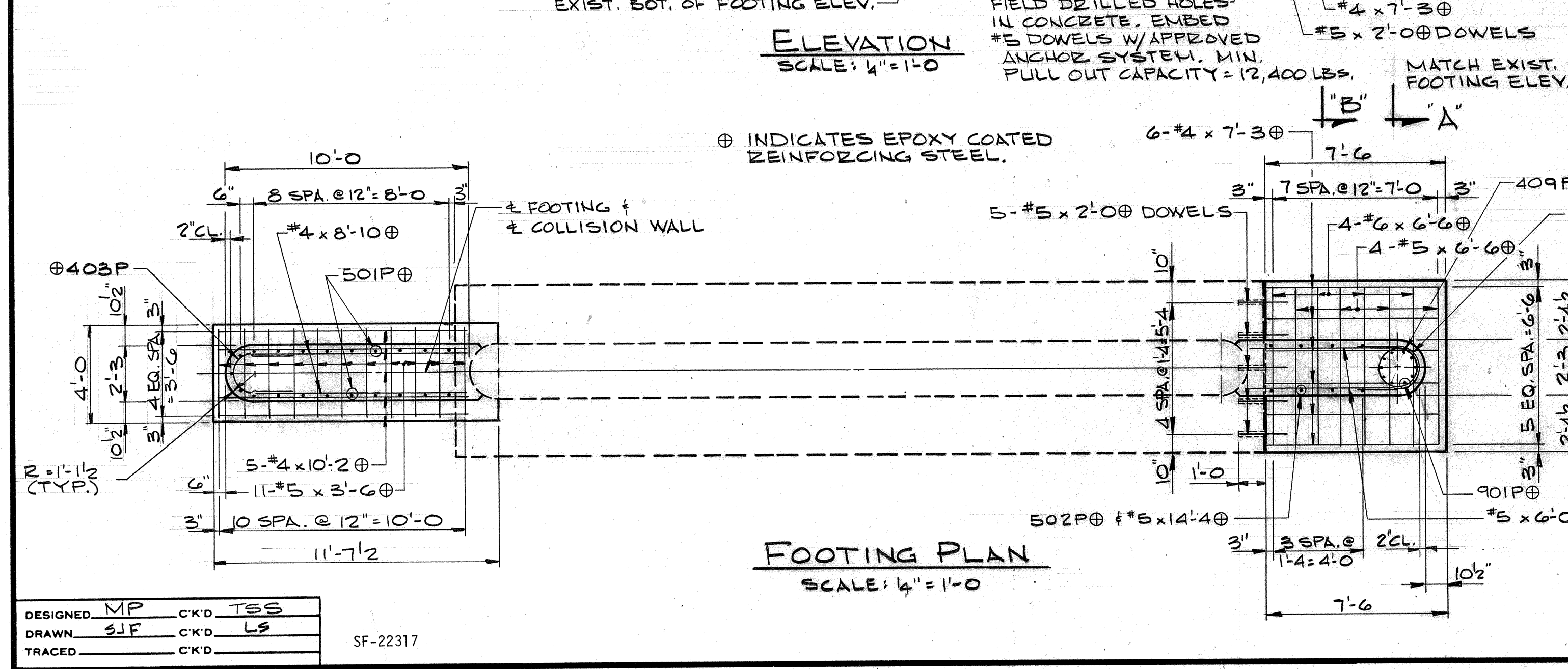
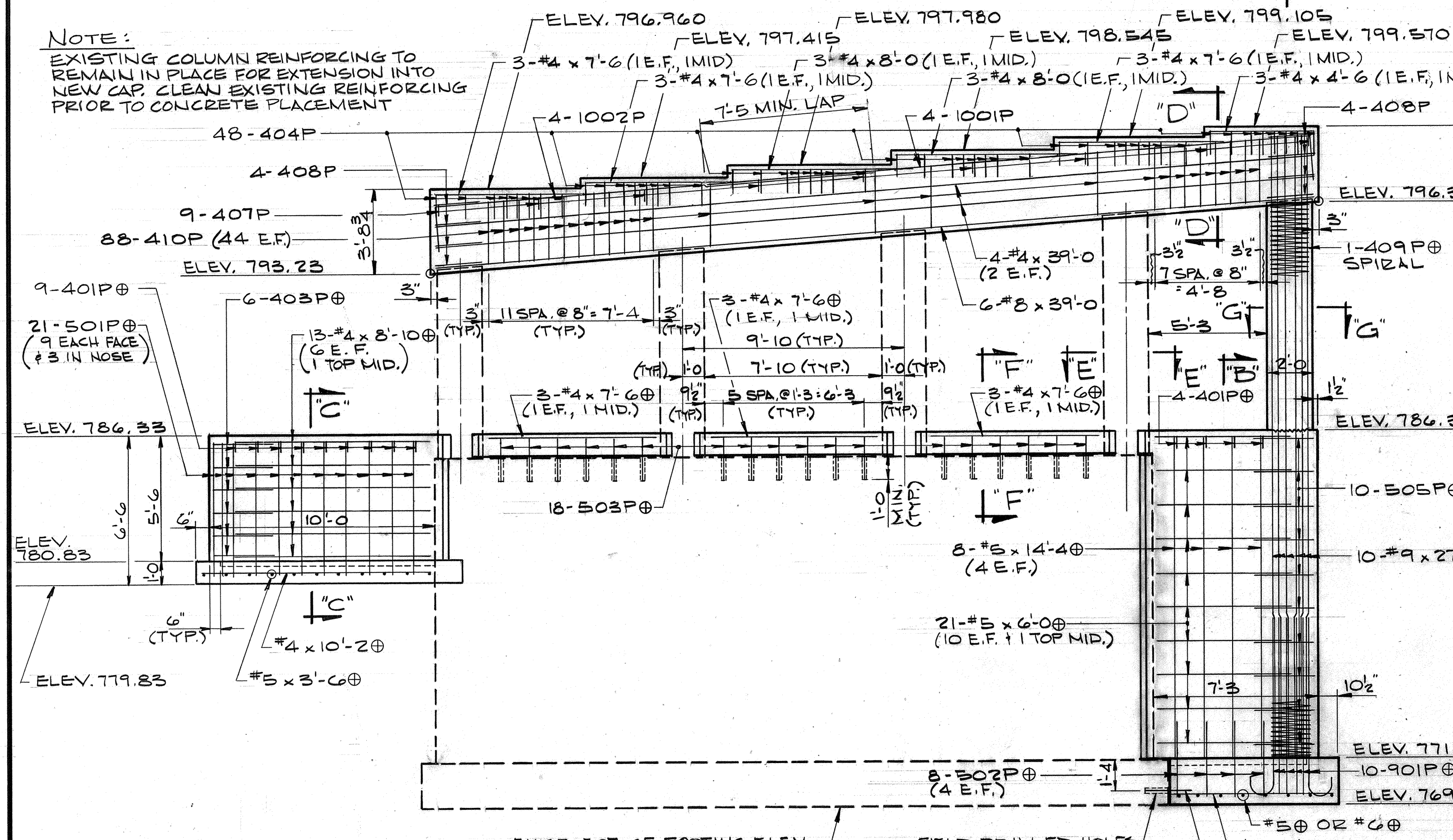
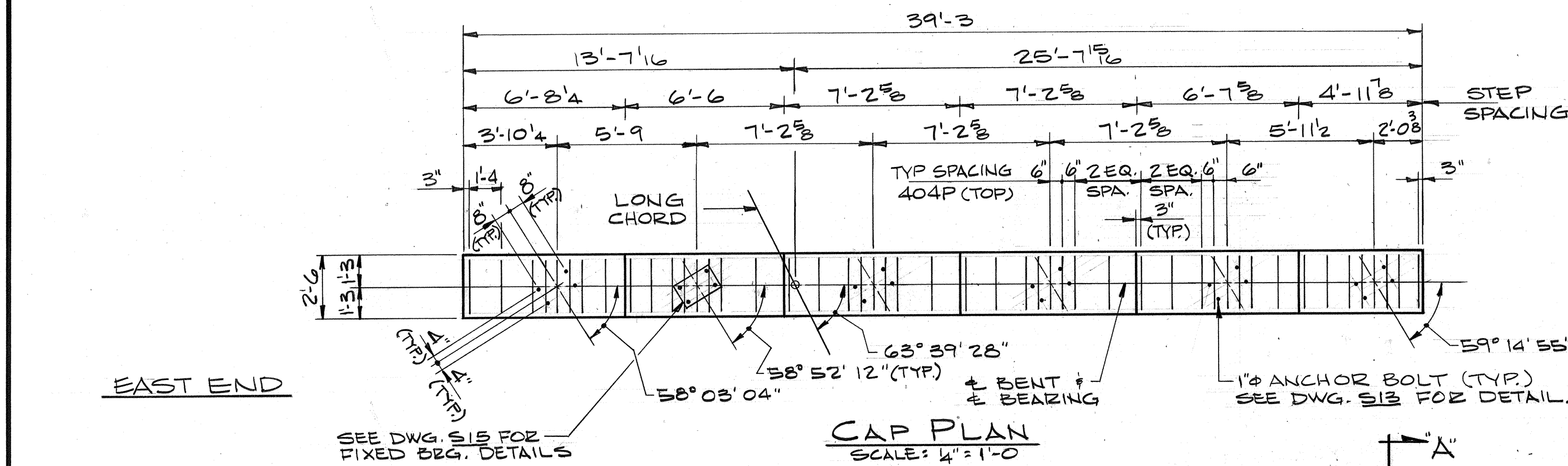


BILL OF MATERIALS			
MARK SIZE	NO. PCS.	LENGTH	WEIGHT
EPOXY COATED REINFORCING			
803P⊕	10	7'-6	
#8⊕	10	24'-0	
TOTAL		#8⊕	841#
501P⊕	21	6'-10	
502P⊕	8	3'-11	
503P⊕	15	5'-1	
505P⊕	7	6'-5	
#5⊕	8	9'-7	
#5⊕	23	6'-0	
#5⊕	11	3'-6	
#5⊕	5	2'-0	
TOTAL		#5	583#
401P⊕	13	2'-11	
403P⊕	6	5'-9	
405P⊕	1	50'-0	
#4⊕	5	10'-2	
#4⊕	13	8'-10	
#4⊕	6	7'-3	
#4⊕	9	6'-6	
TOTAL		#4⊕	567#
TOTAL EPOXY COATED REINF.			1,991#
UNCOATED REINFORCING			
801P	5	25'-1	
802P	5	18'-1	
#8	5	36'-0	
TOTAL		#8	1,057#
404P	44	4'-4	
406P	37	10'-8	
407P	9	3'-2	
408P	10	4'-7	
#4	6	36'-0	
#4	6	8'-0	
#4	6	7'-0	
#4	3	6'-0	
#4	3	4'-3	
TOTAL		#4	666#
TOTAL UNCOATED REINF.			1,723#
CONCRETE			
CLASS "B" IN FOOTING			5.2 C.Y.
CLASS "B" ABOVE FOOTING			13.0 C.Y.
CLASS "A" IN COLUMN			1.2 C.Y.
CLASS "A" IN CAP			14.7 C.Y.
TOTAL CLASS "A"			15.9 C.Y.
MISCELLANEOUS			
FIELD DRILLED HOLES			35 EA.

- NOTES:**
1. ANCHOR BOLTS TO BE PRESET IN CONCRETE.
 2. FOR ATTACHMENT DETAILS OF NOSE DEFLECTOR REQ'D. AT EAST END OF NEW COLLISION WALL, SEE RD. STD., GUARD RAIL SHEET T-4.
 3. FOR REINFORCING BAR NOTES, SEE BR. STD. C1.
 4. FOR GENERAL NOTES, SEE DWG. S2.
 5. FOR TYPE 'A' CONST. JT., SEE BR. STD. C3.
 6. FOR ADDITIONAL BAR DETAILS AND SECTION 'F-F' & 'G-G', SEE DWG. S10.

BENT NO. 2
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: - AS NOTED
 DATE: July 7, 1992
 SENIOR DESIGNER: [Signature]
 DRAWING: S9 OF S19
 PROJECT: IR-465
 BRIDGE CONTRACT NO. B-19705
 BRIDGE FILE: I-465-154-4649DRB
 SHEET: 16 OF 59
 STATION: -
 L.D. TAYLOR, JR.
 REGISTERED
 No. 6899
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

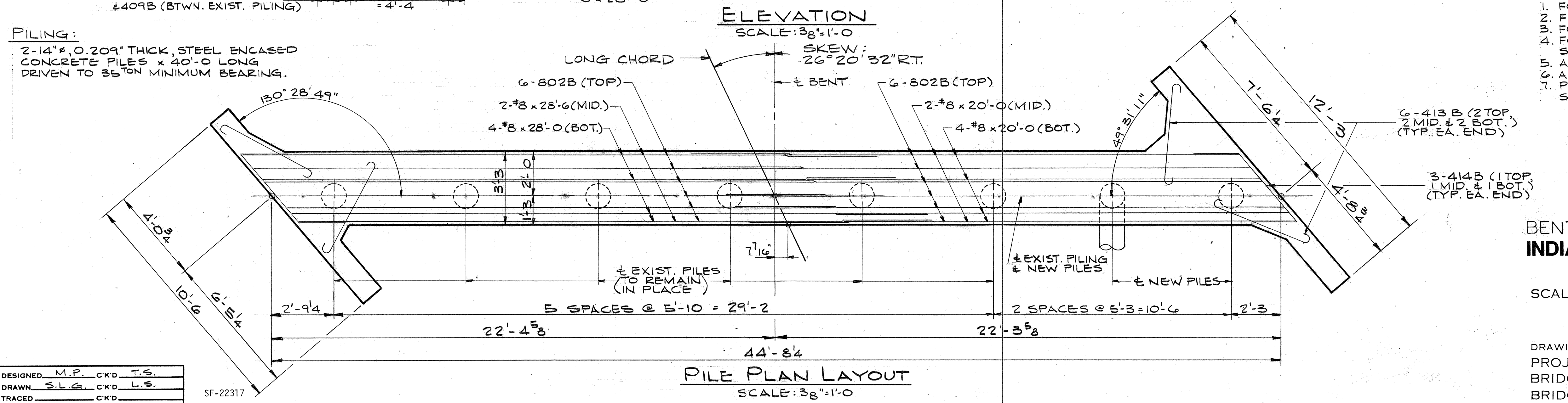
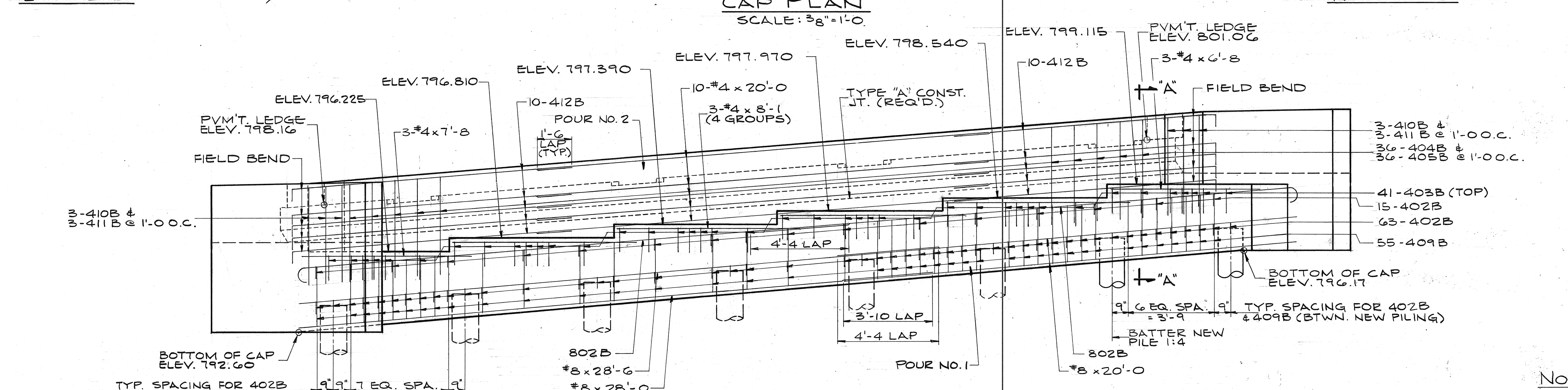
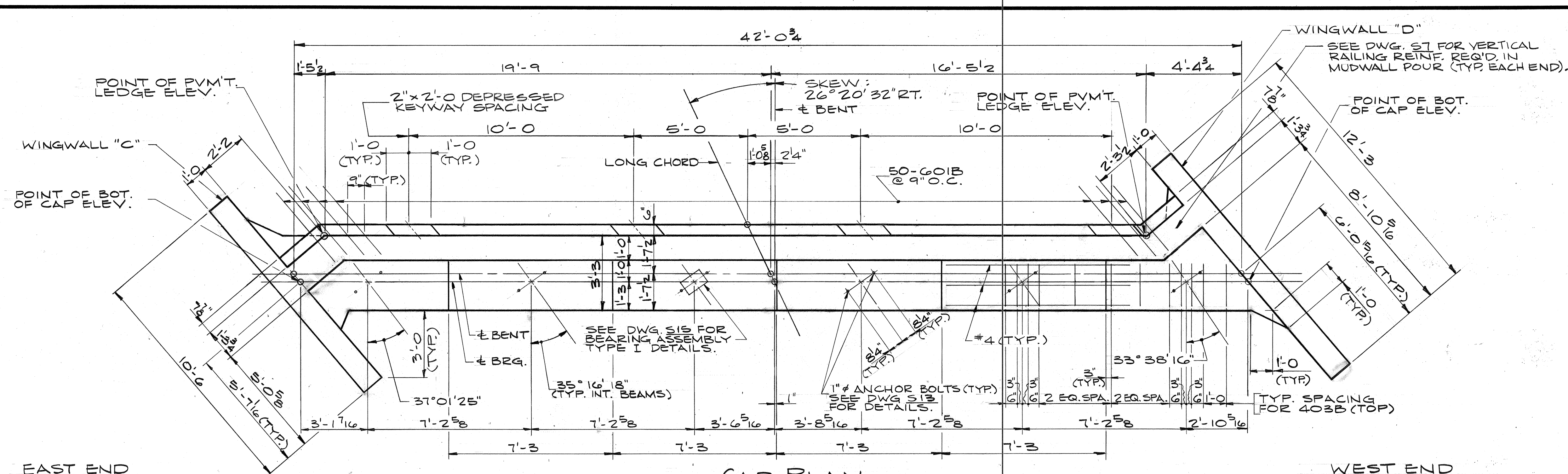


BILL OF MATERIALS			
NO.	SIZE	NO. PCS.	WEIGHT
EPOXY COATED REINFORCING			
901P	#10	10	9.2
902P	#10	27.3	
TOTAL #9			1,238#
401P	#4	6.6	
TOTAL #6			39#
501P	#21	6.10	
502P	#8	3.11	
503P	#18	5.1	
505P	#10	6.5	
#5	#8	14.4	
#5	#4	6.6	
#5	#21	6.0	
#5	#11	3.6	
#5	#5	2.0	
TOTAL #6			673#
401P	#13	2.11	
403P	#6	5.9	
409P	#1	612.0	
#4	#5	10.2	
#4	#13	8.10	
#4	#9	7.6	
#4	#6	7.3	
TOTAL #4			642#
TOTAL EPOXY COATED REINF. 2,592#			
UNCOATED REINFORCING			
1001P	#4	28.6	
1002P	#4	21.7	
TOTAL #10			862#
#8	#6	39.0	
TOTAL #8			625#
404P	#48	1.4	
407P	#9	3.2	
408P	#8	4.7	
410P	#88	8.1	
#4	#4	39.0	
#4	#6	8.0	
#4	#9	7.6	
#4	#3	4.6	
TOTAL #4			848#
TOTAL UNCOATED REINF. 2,335#			
CONCRETE			
CLASS "B" IN FOOTING		54 C.Y.	
CLASS "B" ABOVE FOOTING		16.2 C.Y.	
CLASS "A" IN COLUMN		1.2 C.Y.	
CLASS "A" IN CAP		12.4 C.Y.	
TOTAL CLASS "A"		13.6 C.Y.	
MISCELLANEOUS			
FIELD DRILLED HOLES		41 EA.	

NOTES:
1. FOR ADDITIONAL BAR DETAILS, SECTIONS "C-C" & "E-E" AND ADDITIONAL NOTES, SEE DWG. 59.

BENT NO. 3
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: -AS NOTED
DATE: July 7 1992
SENIOR DESIGNER: L.D. TAYLOR, JR.
DRAWING: S10 OF S19 SHEET: 17 OF 59
PROJECT: IR-465-4(STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649DRB



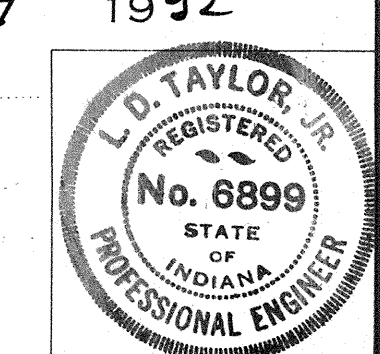
BILL OF MATERIALS

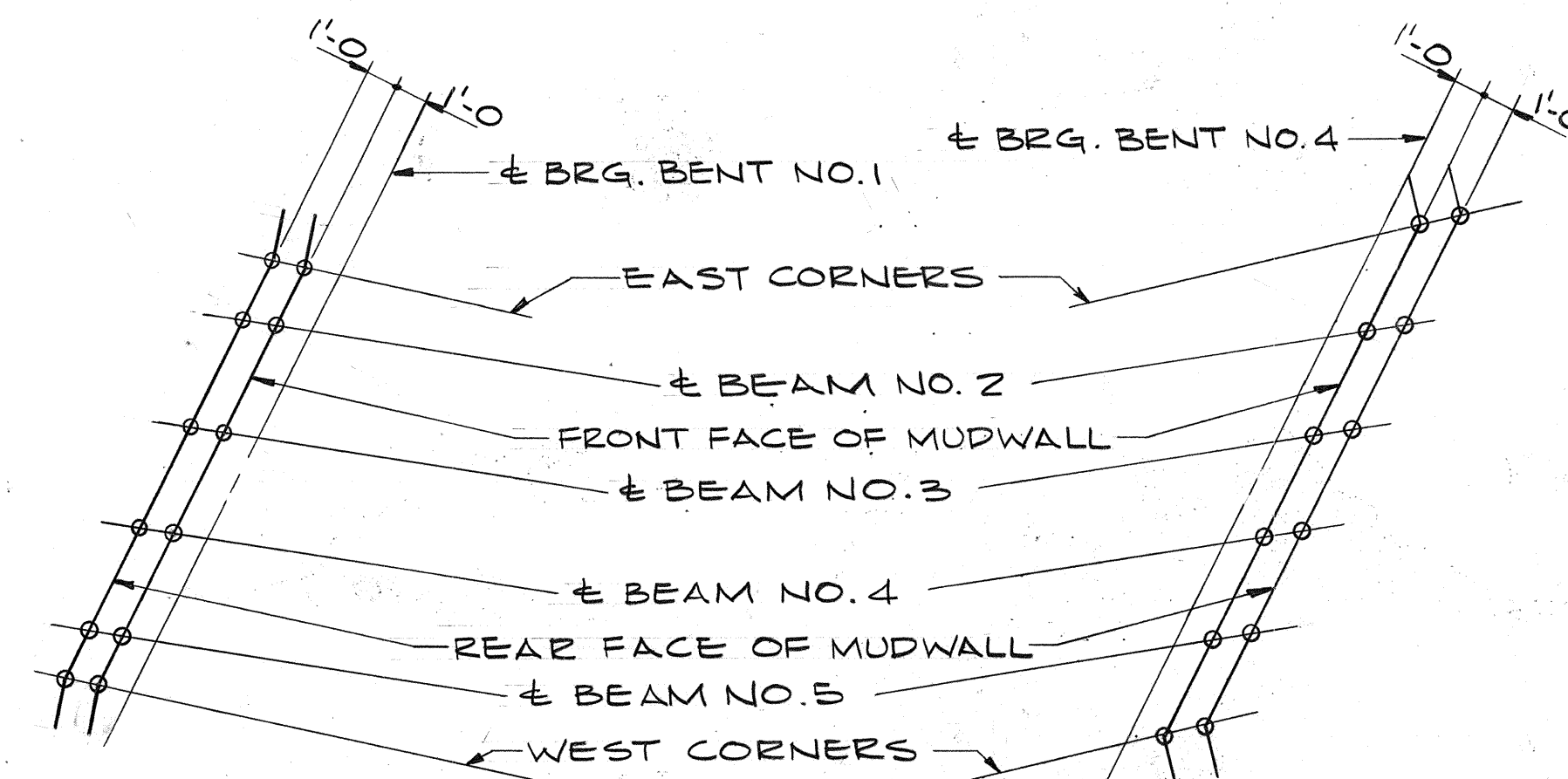
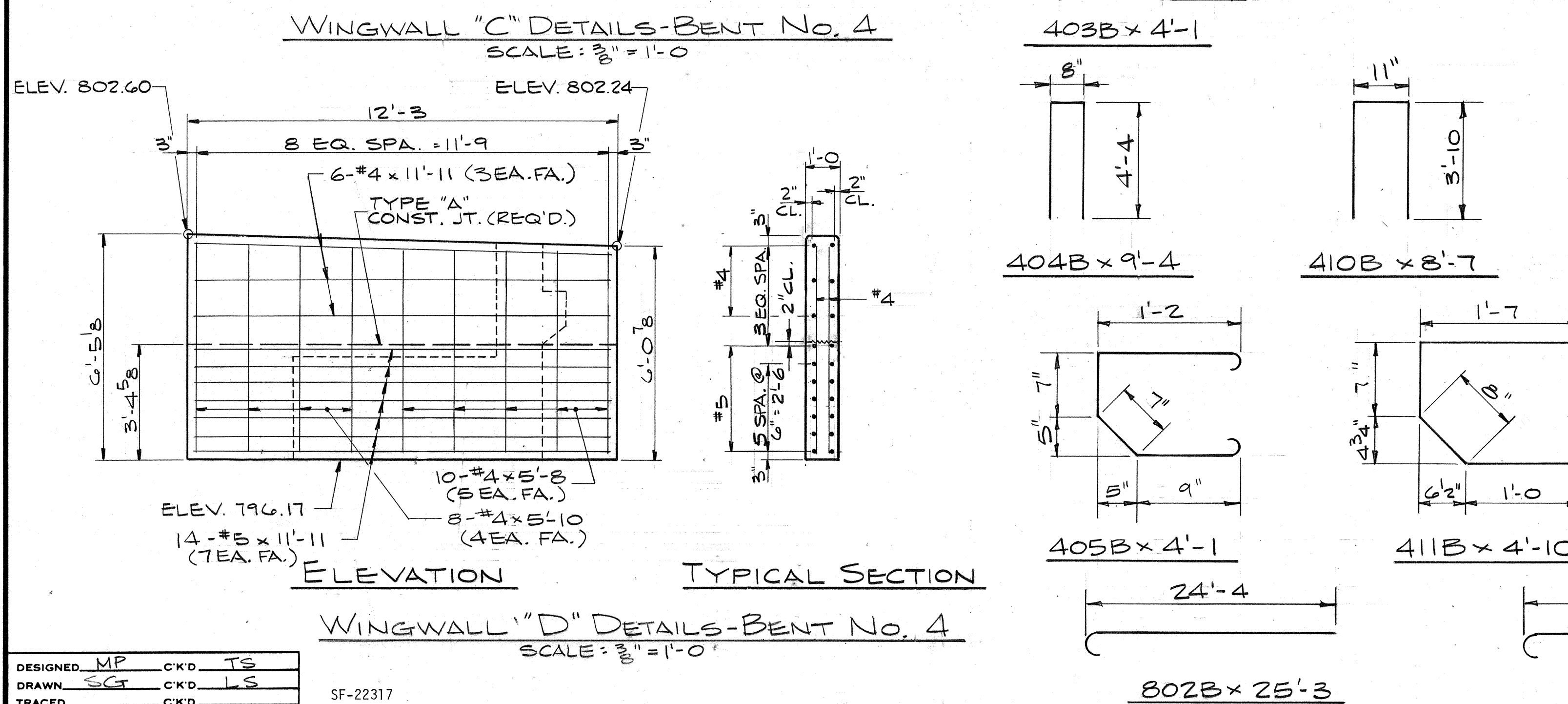
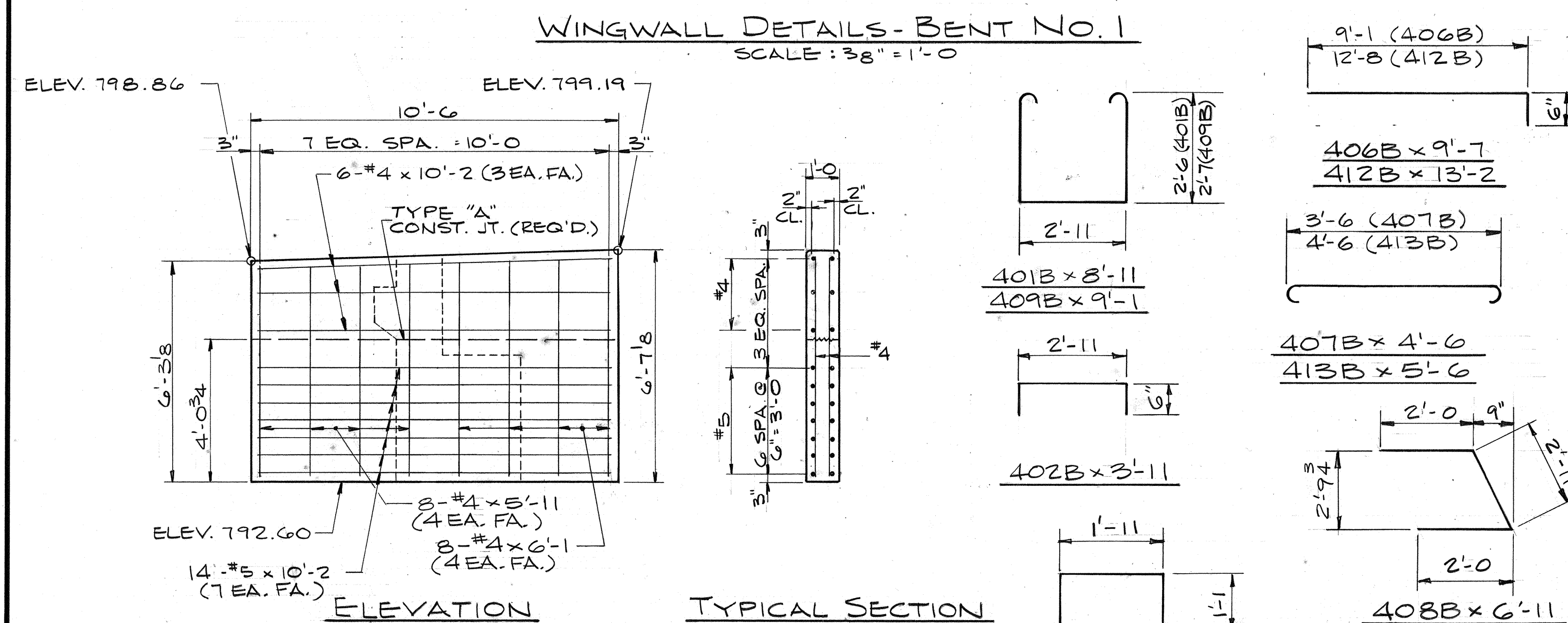
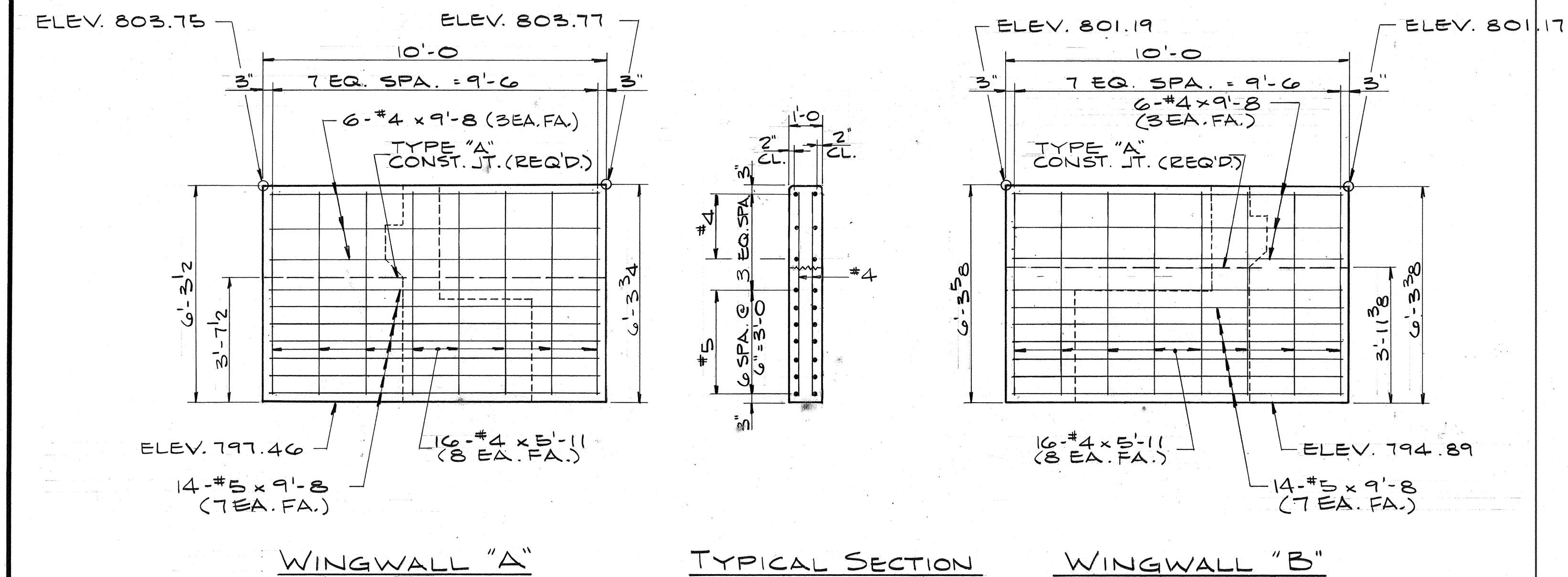
WKS SIZE	NO. PCS	LENGTH	WEIGHT
802B	12	25'-3	
#8	2	28'-6	
#8	4	28'-0	
#8	6	20'-0	
TOTAL #8			1,581#
601B	50	4'-9	
TOTAL #6			357#
#5	14	11'-11	
#5	14	10'-2	
TOTAL #5			323#
402B	78	3'-11	
403B	41	4'-1	
404B	36	9'-4	
405B	36	4'-1	
409B	55	9'-1	
410B	6	8'-7	
411B	6	4'-10	
412B	20	13'-2	
413B	12	5'-6	
414B	6	7'-8	
#4	10	20'-0	
#4	6	11'-11	
#4	6	10'-2	
#4	12	8'-1	
#4	3	7'-8	
#4	3	6'-8	
#4	3	6'-1	
#4	8	5'-11	
#4	8	5'-10	
#4	10	5'-8	
TOTAL #4			1,726#
TOTAL EPOXY COATED REINF. 3,987#			
CONCRETE			
POUR NO. 1 - CLASS "A" 20.9 C.Y.			
TOTAL CLASS "A" CONC. 20.9 C.Y.			
POUR NO. 2 - CLASS "C" 7.1 C.Y.			
TOTAL CLASS "C" CONC. 7.1 C.Y.			
MISCELLANEOUS			
SURFACE SEAL 261 S.F.			
2-14" x 0.209" THICK STEEL			
ENCASED CONC. PILE x 40'-0 80 L.F.			

- NOTES:
1. FOR REINFORCING BAR NOTES, SEE BR. STD. C.1.
 2. FOR TYPE "A" CONST. JT., SEE BR. STD. C.3.
 3. FOR GENERAL NOTES, SEE DWG. S2.
 4. FOR WINGWALL DETAILS, MUDWALL ELEVATIONS, SECTION "A-A" AND BAR DETAILS, SEE DWG. S12.
 5. ALL REINFORCING STEEL TO BE EPOXY COATED.
 6. ANCHOR BOLTS TO BE PRESET IN CONCRETE.
 7. POUR NO. 2 TO BE POURED AFTER SUPERSTRUCTURE SLAB IS POURED.

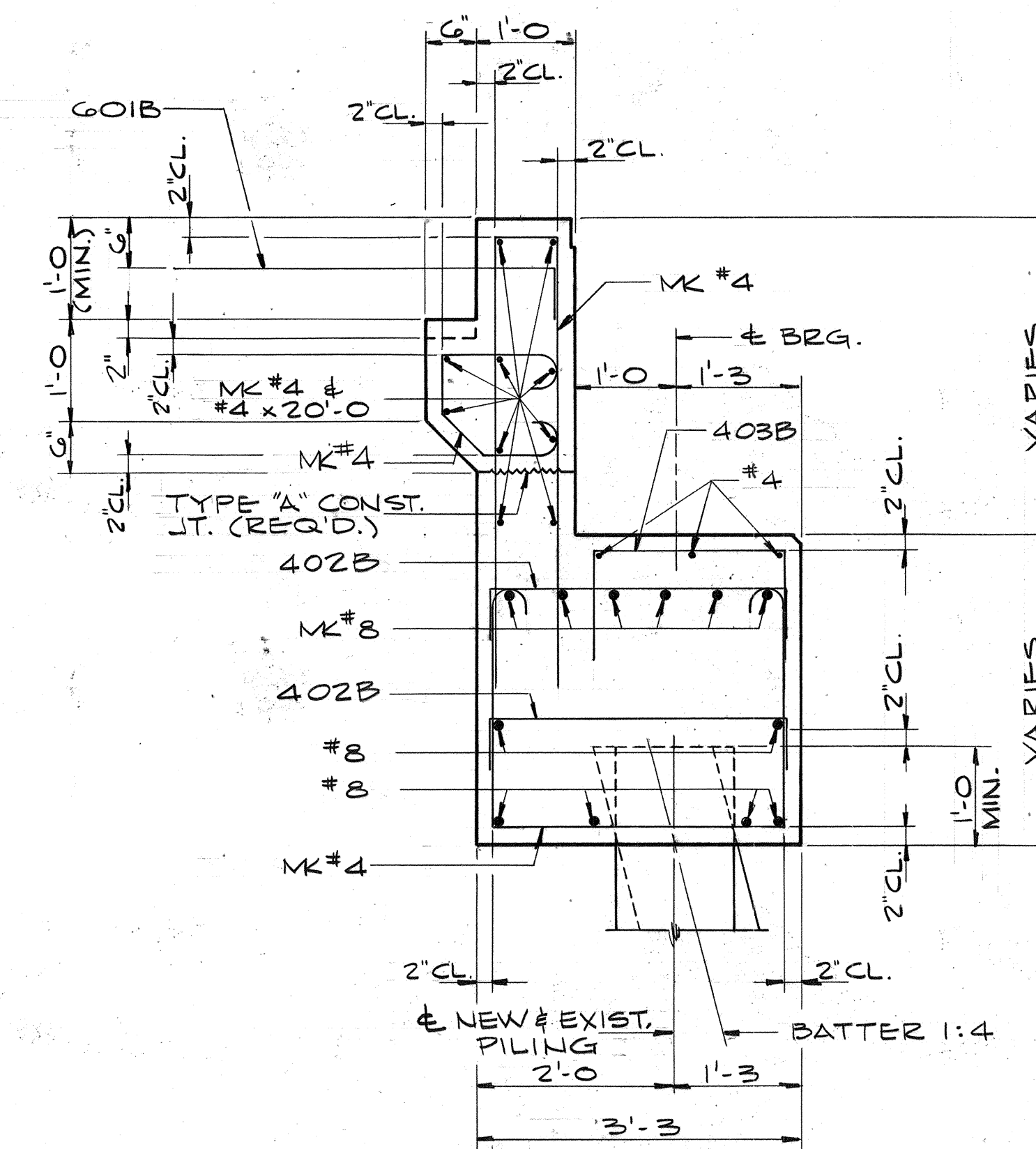
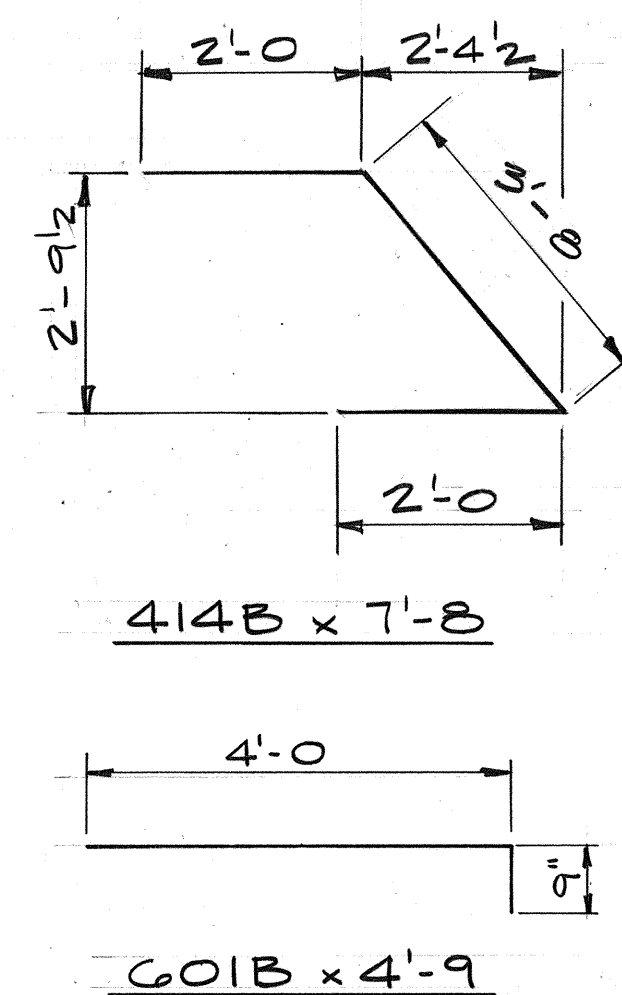
BENT NO. 4
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: -AS NOTED
DATE: July 7 1992
DESIGNED: M.P. CKD T.S.
DRAWN: S.L.G. CKD L.S.
TRACED: CKD
SF-22317
DRAWING: S11 OF S19 SHEET: 18 OF 59
PROJECT: IR-465-4 STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649DRB





LOCATION	E. CRNR. BM. NO. 2	BM. NO. 3	BM. NO. 4	BM. NO. 5	W. CRNR.
R.F. MUDWALL-BENT NO. 1	801.34	801.65	802.20	802.76	803.31
F.F. MUDWALL-BENT NO. 1	801.34	801.65	802.20	802.76	803.31
F.F. MUDWALL-BENT NO. 4	799.21	799.83	800.41	800.98	801.56
R.F. MUDWALL-BENT NO. 4	799.16	799.80	800.38	800.96	801.53



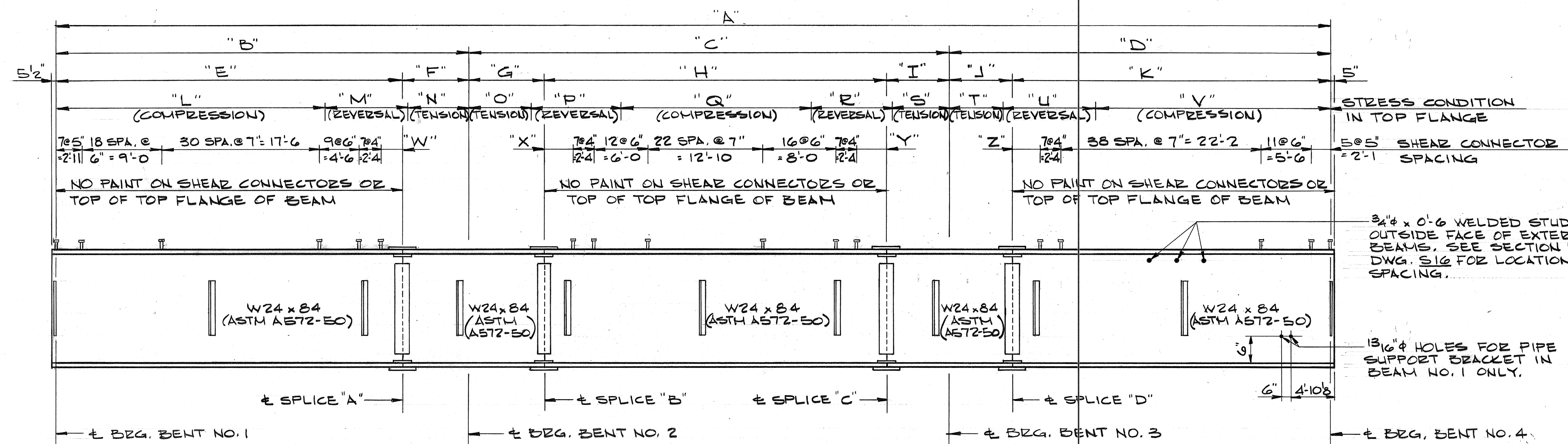
END BENT DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: AS NOTED

DATE: July 7 1982
R.D. Day
SENIOR DESIGNER

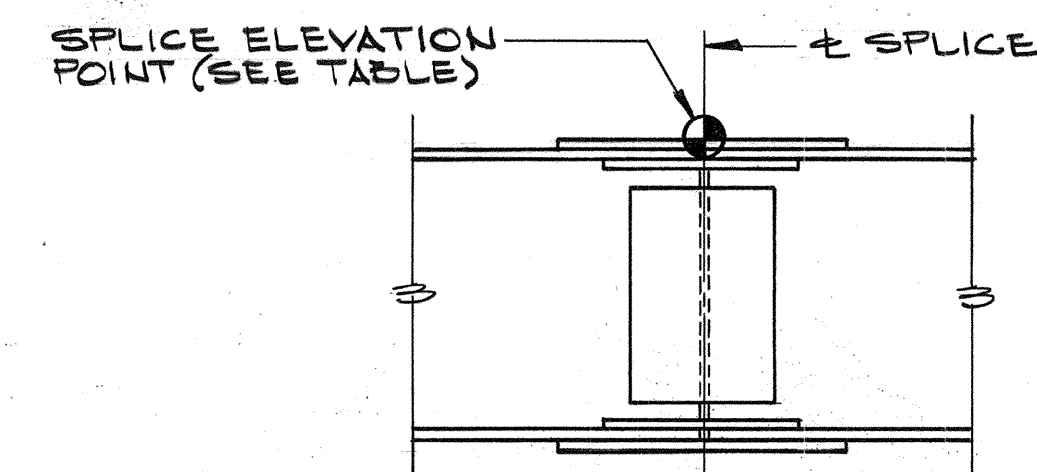
DRAWING: S12 OF S19 SHEET: 19 OF 59
PROJECT: IR-465-4 STATION: -
BRIDGE CONTRACT NO. 8-19705
BRIDGE FILE: I-465-154-4649DRB





BEAM ELEVATION
NO SCALE

NOTE: ALL DIMENSIONS HORIZONTAL AND ALONG BEAM CHORDS.



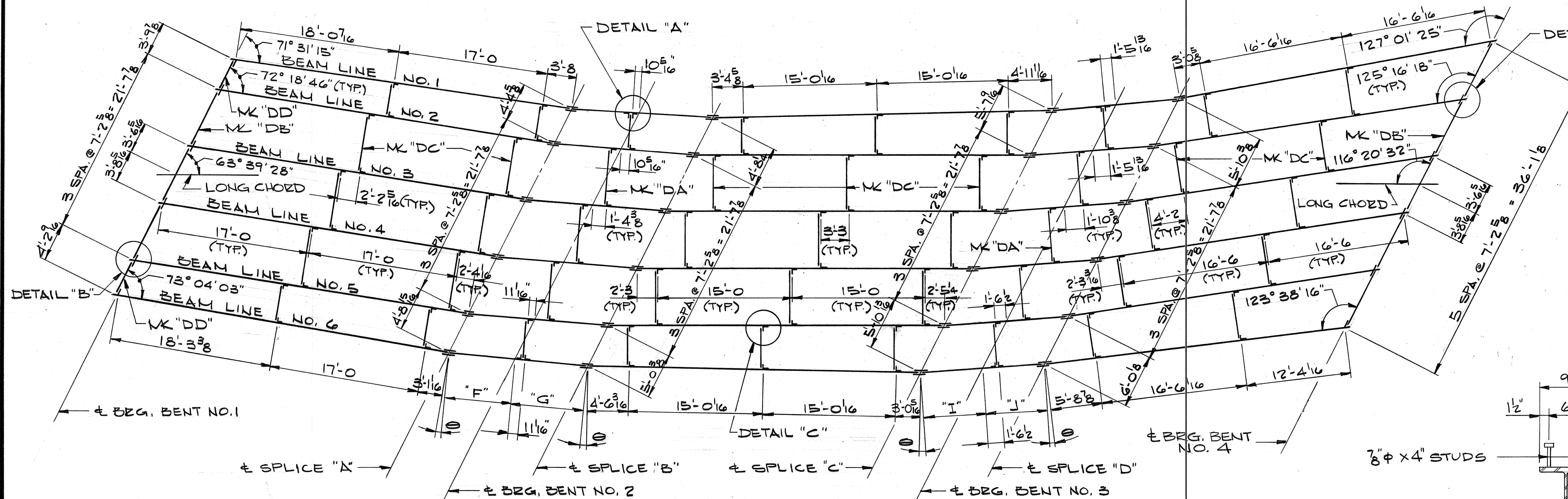
SPlice ELEVATION DETAIL
NO SCALE

BEAM NO.	1	2	3	4	5	6
SPlice "A" ELEV.	800.615	800.955	801.510	802.065	802.615	802.980
SPlice "B" ELEV.	800.475	800.835	801.390	801.945	802.500	802.885
SPlice "C" ELEV.	799.890	800.330	800.895	801.455	802.015	802.470
SPlice "D" ELEV.	799.605	800.065	800.630	801.195	801.760	802.230

SPlice ELEVATION TABLE

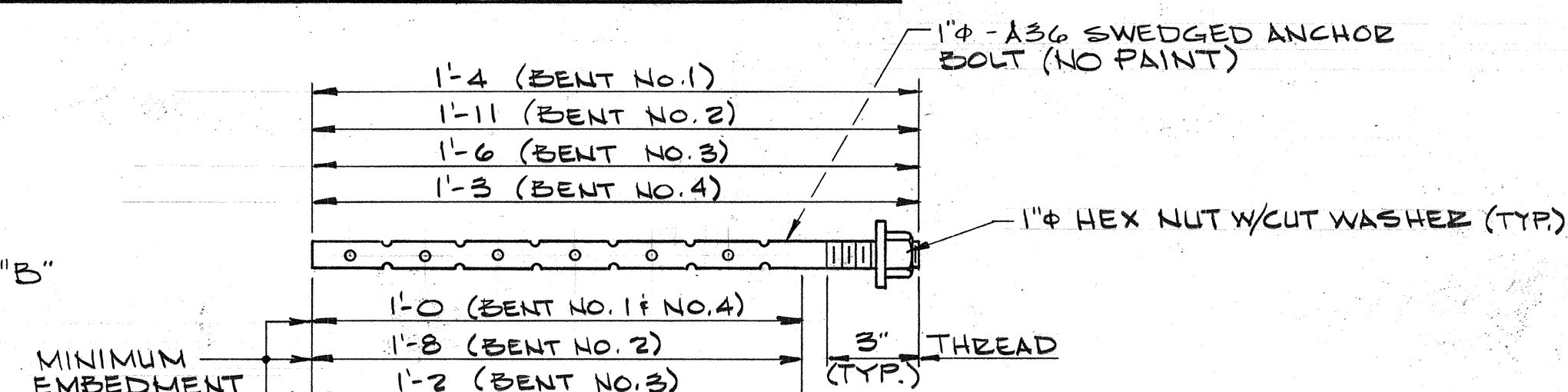
NOTE: SPlice ELEVATIONS ARE WITH FALSEWORK REMOVED AND CARRYING STEEL DEADLOAD ONLY. TOP OF BEAM SPlice PLATE SHALL BE ADJUSTED TO THE ABOVE ELEVATIONS BEFORE BOLTING FIELD SPlices.

	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"	"M"	"N"	"O"	"P"	"Q"	"R"	"S"	"T"	"U"	"V"	"W"	"X"	"Y"	"Z"
BEAM LINE NO. 1	143'-11 1/2"	46'-3 3/8"	53'-8 1/2"	43'-1 1/2"	38'-8 1/2"	7'-6 1/2"	8'-3 3/4"	38'-4 1/2"	7'-0 3/4"	7'-0 3/4"	36'-0 3/4"	30'-8 3/8"	9'-3"	6'-9"	7'-0"	10'-0"	21'-5 1/2"	9'-0"	6'-3"	6'-0"	10'-3"	26'-10 1/2"	2'-5 1/2"	3'-5 3/8"	3'-4 1/2"	3'-11 3/4"
BEAM LINE NO. 2	141'-5 1/2"	46'-0 3/8"	53'-2 1/4"	42'-3 3/4"	38'-6 3/8"	7'-6"	8'-3"	37'-11 1/4"	7'-0"	7'-0"	35'-3 3/4"	28'-9 3/8"	11'-9"	5'-6"	6'-3"	12'-0"	18'-8 1/4"	11'-0"	5'-3"	5'-0"	12'-9"	24'-6 3/4"	2'-3 3/8"	3'-3"	3'-2 1/4"	3'-2 3/4"
BEAM LINE NO. 3	141'-5 1/2"	46'-0 3/8"	53'-2 1/4"	42'-3 3/4"	38'-6 3/8"	7'-6"	8'-3"	37'-11 1/4"	7'-0"	7'-0"	35'-3 3/4"	29'-0 3/8"	11'-3"	5'-9"	6'-3"	11'-3"	19'-8 1/4"	10'-6"	5'-6"	5'-9"	12'-0"	24'-6 3/4"	2'-3 3/8"	3'-3"	3'-2 1/4"	3'-2 3/4"
BEAM LINE NO. 4	141'-5 1/2"	46'-0 3/8"	53'-2 1/4"	42'-3 3/4"	38'-6 3/8"	7'-6"	8'-3"	37'-11 1/4"	7'-0"	7'-0"	35'-3 3/4"	29'-0 3/8"	11'-3"	5'-9"	6'-3"	11'-3"	19'-8 1/4"	10'-6"	5'-6"	5'-9"	12'-0"	24'-6 3/4"	2'-3 3/8"	3'-3"	3'-2 1/4"	3'-2 3/4"
BEAM LINE NO. 5	141'-5 1/2"	46'-0 3/8"	53'-2 1/4"	42'-3 3/4"	38'-6 3/8"	7'-6"	8'-3"	37'-11 1/4"	7'-0"	7'-0"	35'-3 3/4"	28'-9 3/8"	11'-9"	5'-6"	6'-3"	12'-0"	18'-8 1/4"	11'-0"	5'-3"	5'-0"	12'-9"	24'-6 3/4"	2'-3 3/8"	3'-3"	3'-2 1/4"	3'-2 3/4"
BEAM LINE NO. 6	140'-1 3/4"	45'-9 1/8"	52'-8 3/8"	41'-6 1/2"	38'-4 1/2"	7'-5 1/2"	8'-2 5/8"	37'-6 3/8"	6'-11 1/2"	6'-11 1/2"	34'-7"	30'-0 3/8"	9'-3"	6'-6"	6'-3"	9'-6"	22'-5 3/8"	8'-3"	6'-3"	5'-6"	10'-0"	26'-0 1/2"	2'-1 1/2"	3'-0 1/2"	2'-11 1/2"	2'-6"



FRAMING PLAN
NO SCALE

NOTE: ALL DIMENSIONS HORIZONTAL. FOR SPlice DEFLECTION ANGLE (θ), SEE DWG. S14.



SWAGED ANCHOR BOLT DETAIL
NO SCALE

NOTE: THE WEIGHT OF SWAGED ANCHOR BOLTS ARE NOT INCLUDED IN THE ESTIMATED WEIGHT OF STRUCTURAL STEEL. SWAGED ANCHOR BOLTS TO BE FURNISHED WITH AND INCLUDED IN THE COST OF STRUCTURAL STEEL.

NOTES:

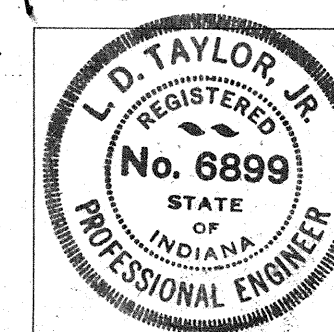
1. ALL SHIM PLATES TO BE 1/2" THICKNESS.
2. ALL STRUCTURAL STEEL TO BE ASTM A36 UNLESS NOTED OTHERWISE.
3. FOR ADDITIONAL DETAILS, SEE DWG. S14.
4. THE WEIGHT OF HIGH STRENGTH BOLTS ARE NOT INCLUDED IN THE ESTIMATED WEIGHT OF STRUCTURAL STEEL. THE COST OF THESE BOLTS SHALL BE INCLUDED IN THE COST OF STRUCTURAL STEEL.
5. ESTIMATED WEIGHT OF STRUCTURAL STEEL = 86,985 LBS. (INCLUDES 72,647 LBS. FOR ASTM A572-50)

STRUCTURAL STEEL DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE:— AS NOTED

DATE: July 7, 1992
L. D. Taylor, Jr.
SENIOR DESIGNER

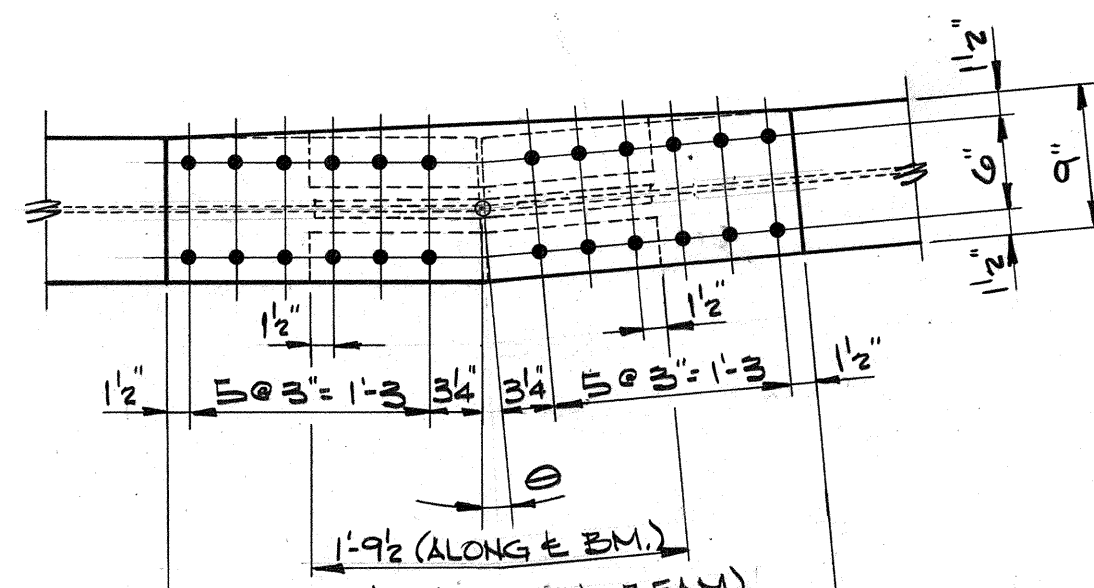
DRAWING: S13 OF S19 SHEET: 20 OF 59
PROJECT: IR-465-4() STATION:—
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649DRB



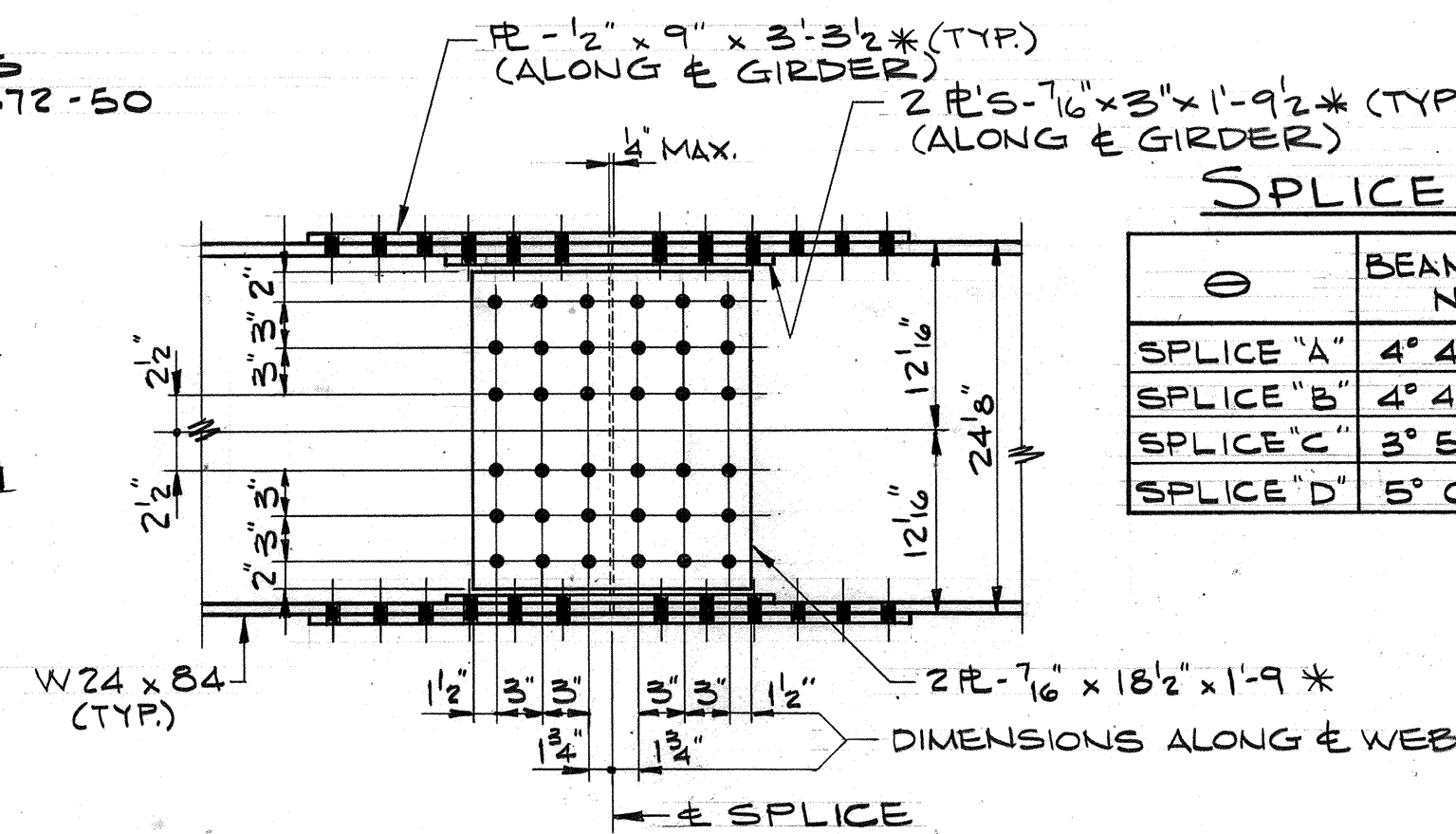
DESIGNED: TSS CKD: MP
DRAWN: SF CKD: LS
TRACED: CKD

SF-22317

NOTE:
ALL SPLICE PLATES
SHALL BE ASTM A572-50



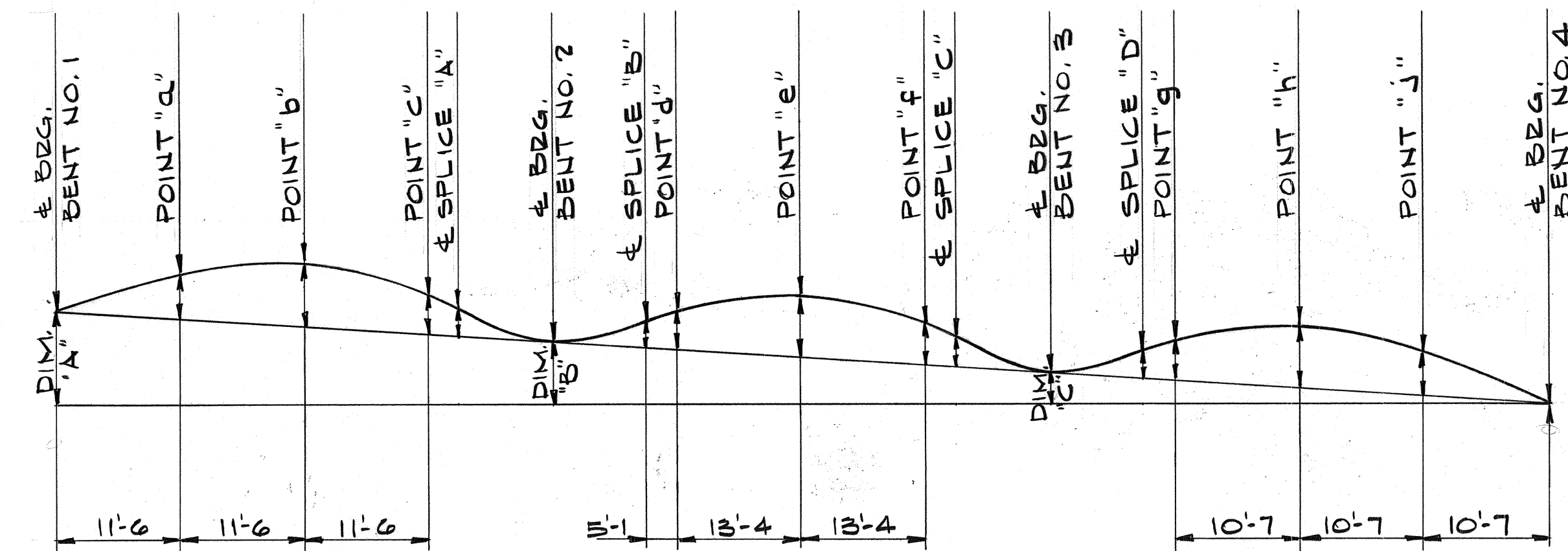
SPLICE DETAILS
SCALE: 1" = 1'-0"



* SPLICE PLATES SHALL BE ORDERED
WITH SUFFICIENT ADDITIONAL WIDTH
AND LENGTH TO PROVIDE FOR
DEFLECTION ANGLE GEOMETRY.

SPLICE DEFLECTION TABLE

0	BEAM LINE NO. 1	BEAM LINE NO. 2 THRU NO. 5	BEAM LINE NO. 6
SPLICE "A"	4° 47' 09"	4° 33' 48"	4° 21' 14"
SPLICE "B"	4° 45' 23"	4° 30' 48"	4° 17' 14"
SPLICE "C"	3° 55' 39"	4° 21' 58"	5° 10' 40"
SPLICE "D"	5° 04' 29"	4° 08' 30"	2° 53' 11"



NO LOAD CAMBER AND REAMING DIAGRAM
NO SCALE

NOTE: ALL DIMENSIONS HORIZONTAL
AND ALONG BEAM CHORDS.

NOTE: FOR BLOCKING DIMENSIONS
"A", "B" AND "C", SEE TABLE BELOW.

TABLE OF CAMBERS (INCHES)

	& BRG. BENT NO. 1	POINT "a"	POINT "b"	POINT "c"	& SPLICE "A"	& BRG. BENT NO. 2	& SPLICE "B"	POINT "d"	POINT "e"	POINT "f"	& SPLICE "C"	& BRG. BENT NO. 3	& SPLICE "D"	POINT "g"	POINT "h"	POINT "j"	& BRG. BENT NO. 4
STEEL DEAD LOAD	0	1/16"	1/16"	0	0	0	0	0	1/16"	0	0	0	0	0	1/16"	1/16"	0
NON-COMP. DEAD LOAD	0	5/16"	3/8"	1/4"	0	0	0	3/16"	5/16"	3/16"	1/16"	0	1/16"	3/16"	5/16"	1/4"	0
COMPOSITE DEAD LOAD	0	0	1/16"	0	0	0	0	1/16"	1/16"	1/16"	0	0	0	0	0	0	0
SUB-TOTAL	0	3/8"	1/2"	1/4"	0	0	0	1/8"	1/4"	1/4"	1/16"	0	1/16"	3/16"	3/8"	5/16"	0
VERTICAL CURVE CORR.	0	1/8"	1/4"	3/8"	7/16"	0	0	9/16"	1/2"	1/2"	9/16"	0	3/8"	5/16"	3/16"	1/16"	0
TOTAL CAMBER	0	1/2"	3/4"	5/8"	9/16"	0	0	1/16"	3/4"	5/8"	5/8"	0	7/16"	1/2"	9/16"	3/8"	0

BLOCKING DIMENSIONS

LOCATION	DIMENSION		
	"A"	"B"	"C"
BEAM LINE NO. 1	2'-1 1/16"	1'-11 1/8"	1'-1 1/2"
BEAM LINE NO. 2	1'-9 1/2"	1'-8 1/4"	11 1/8"
BEAM LINE NO. 3	1'-9 3/16"	1'-7 5/16"	11 1/16"
BEAM LINE NO. 4	1'-8 3/8"	1'-7 5/8"	11 1/8"
BEAM LINE NO. 5	1'-8 1/16"	1'-7 3/8"	11 1/8"
BEAM LINE NO. 6	1'-5 3/4"	1'-5 1/8"	10 1/8"

DETAIL "A"
SCALE: 1" = 1'-0"

TYPICAL DIAPHRAGM MK "DA"
SCALE: 1/2" = 1'-0"

TYPICAL DIAPHRAGM MK "DD"
SCALE: 1/2" = 1'-0"

TYPICAL DIAPHRAGM MK "DB"
SCALE: 1/2" = 1'-0"

DETAIL "B"
SCALE: 1" = 1'-0"

TYPICAL DIAPHRAGM MK "DC"
SCALE: 1/2" = 1'-0"

DETAIL "C"
SCALE: 1" = 1'-0"

SECTION "A-A"
SCALE: 1 1/2" = 1'-0"

NOTES:
1. FOR NOTES, SEE DWG. S13.

STRUCTURAL STEEL DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: -AS NOTED

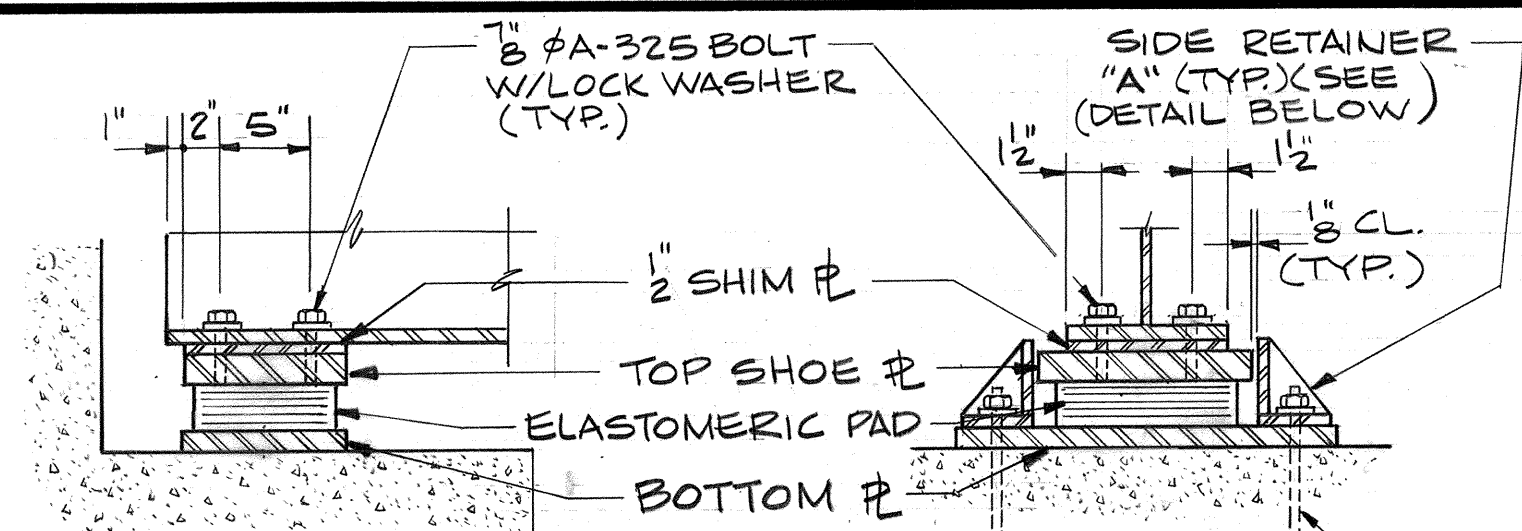
DATE: July 7, 1992

DRAWING: S14 OF S19 SHEET: 21 OF 59
PROJECT: IR-465-4 () STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649DRB

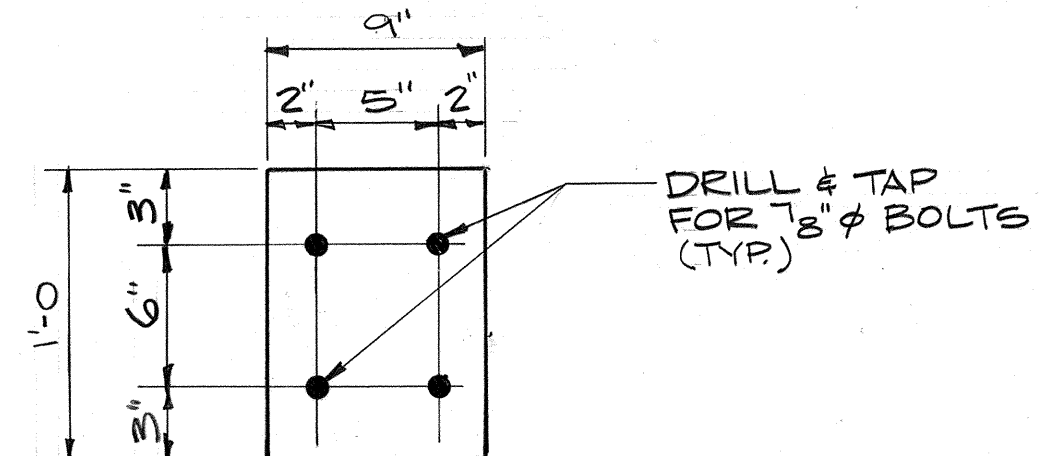


DESIGNED: MP CKD: TS
DRAWN: SF CKD: LS
TRACED: SF CKD: LS

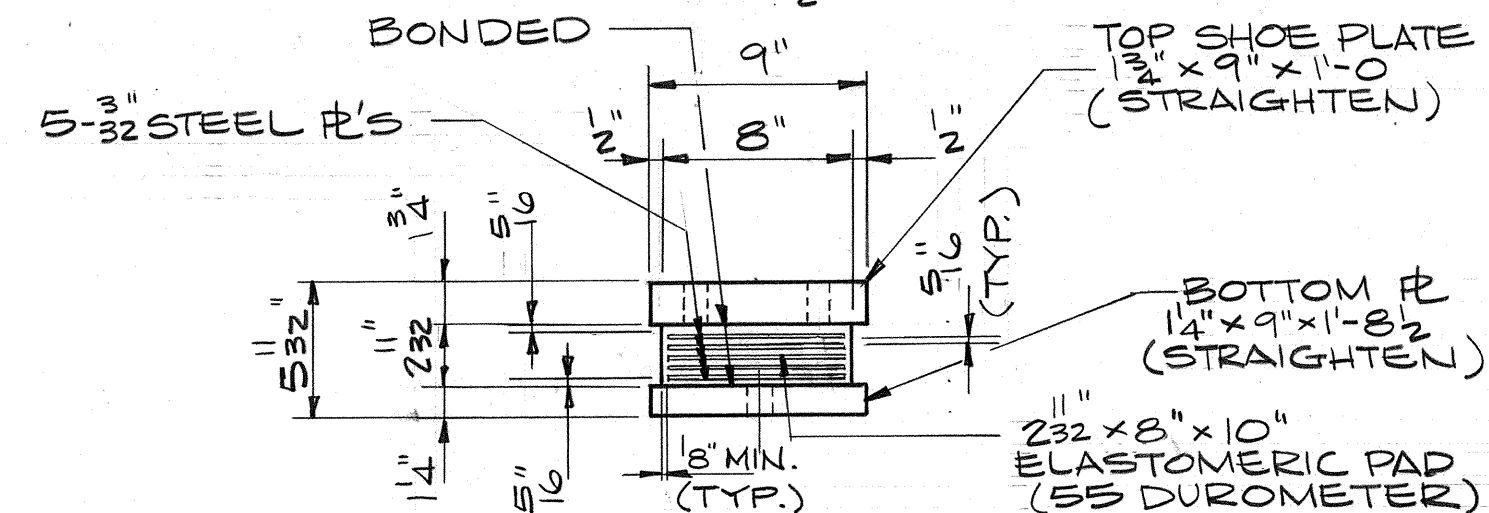
SF-22317



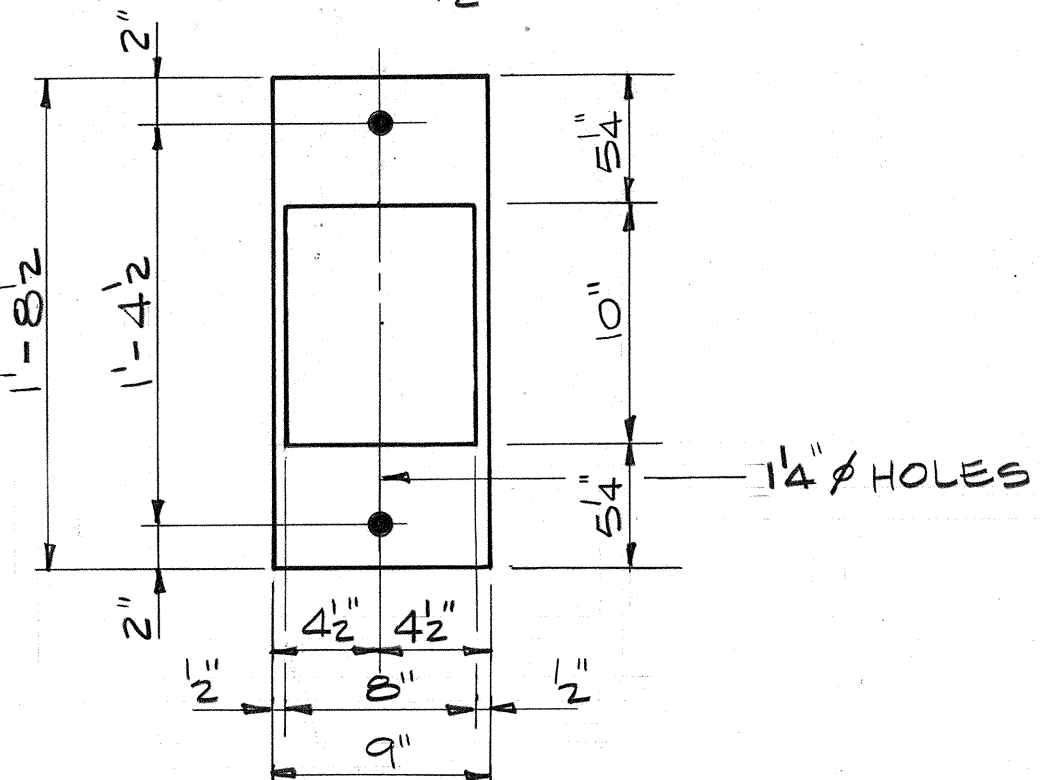
BEARING ASSEMBLY TYPE I
BENT NO. 1
NO SCALE



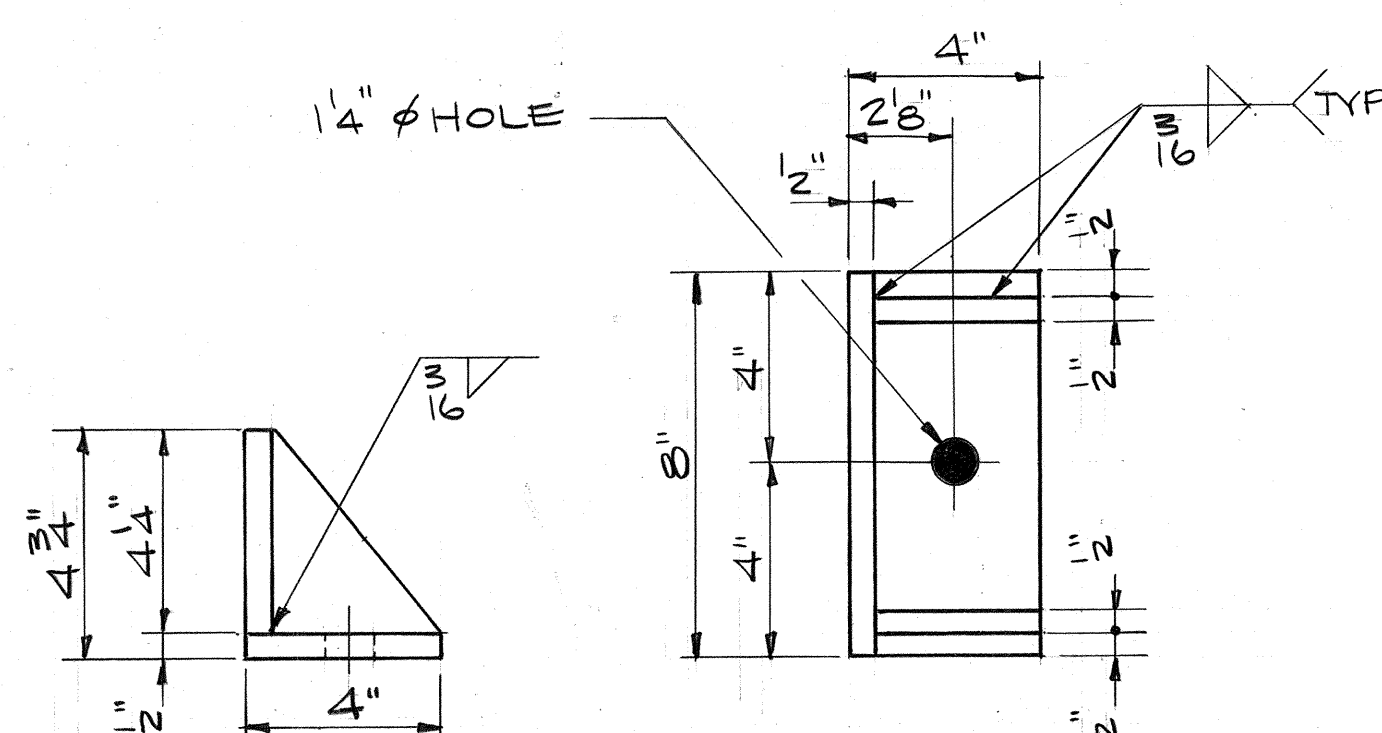
TOP SHOE PLATE
SCALE: 1/2" = 1'-0"



ELASTOMERIC BEARING
SCALE: 1/2" = 1'-0"



BOTTOM PLATE
SCALE: 1/2" = 1'-0"

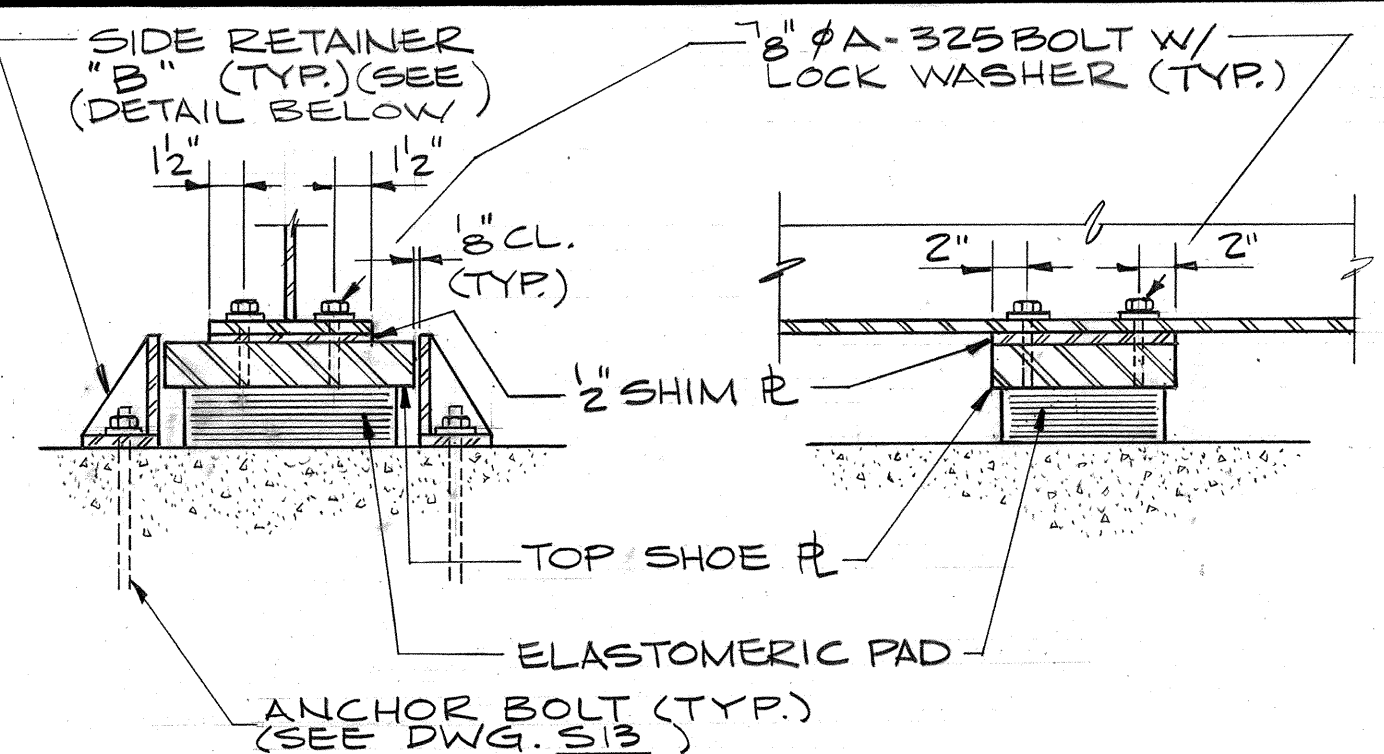


SIDE RETAINER "A" DETAIL
NO SCALE

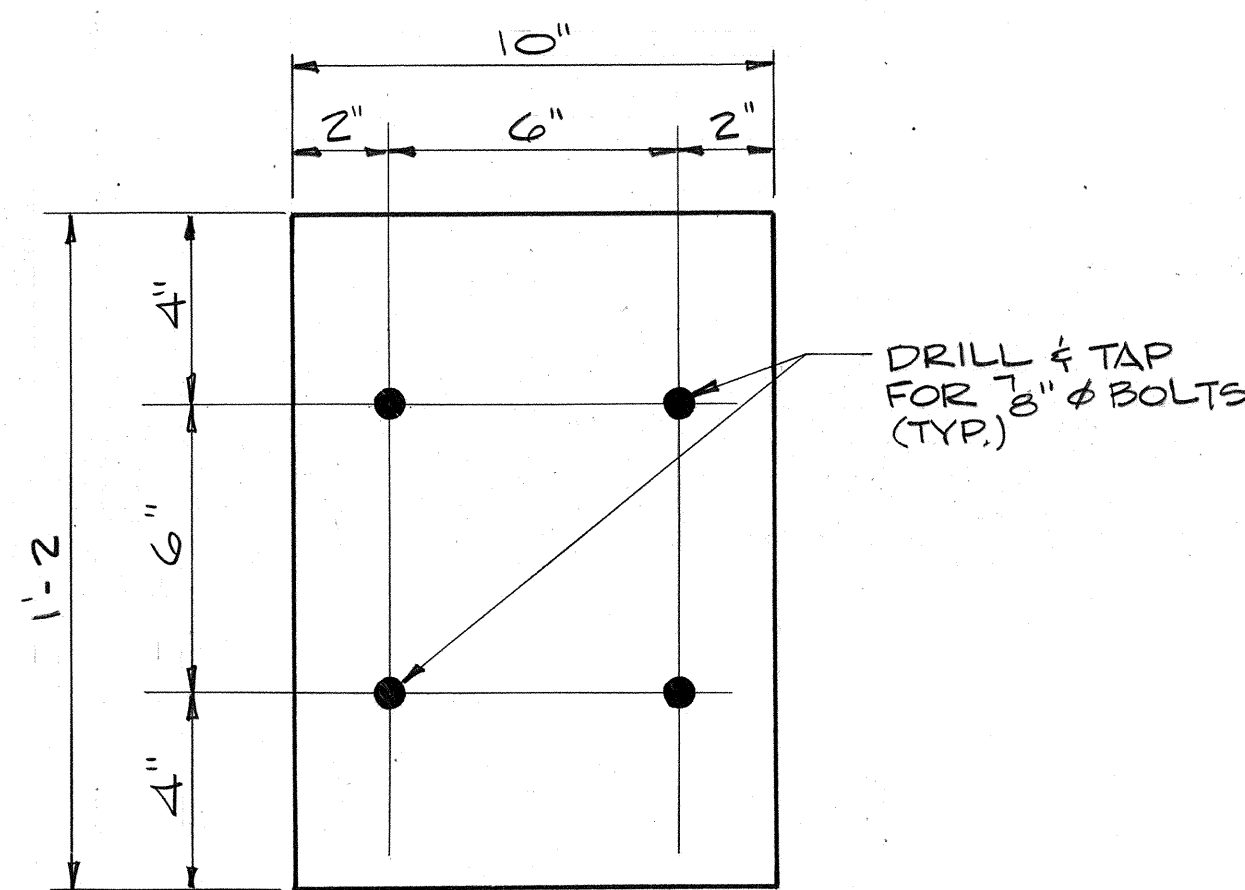
BEARING ASSEMBLY TYPE I DETAILS
BENT NO. 1

DESIGNED MP CKD TSS
DRAWN MM CKD LS
TRACED CKD

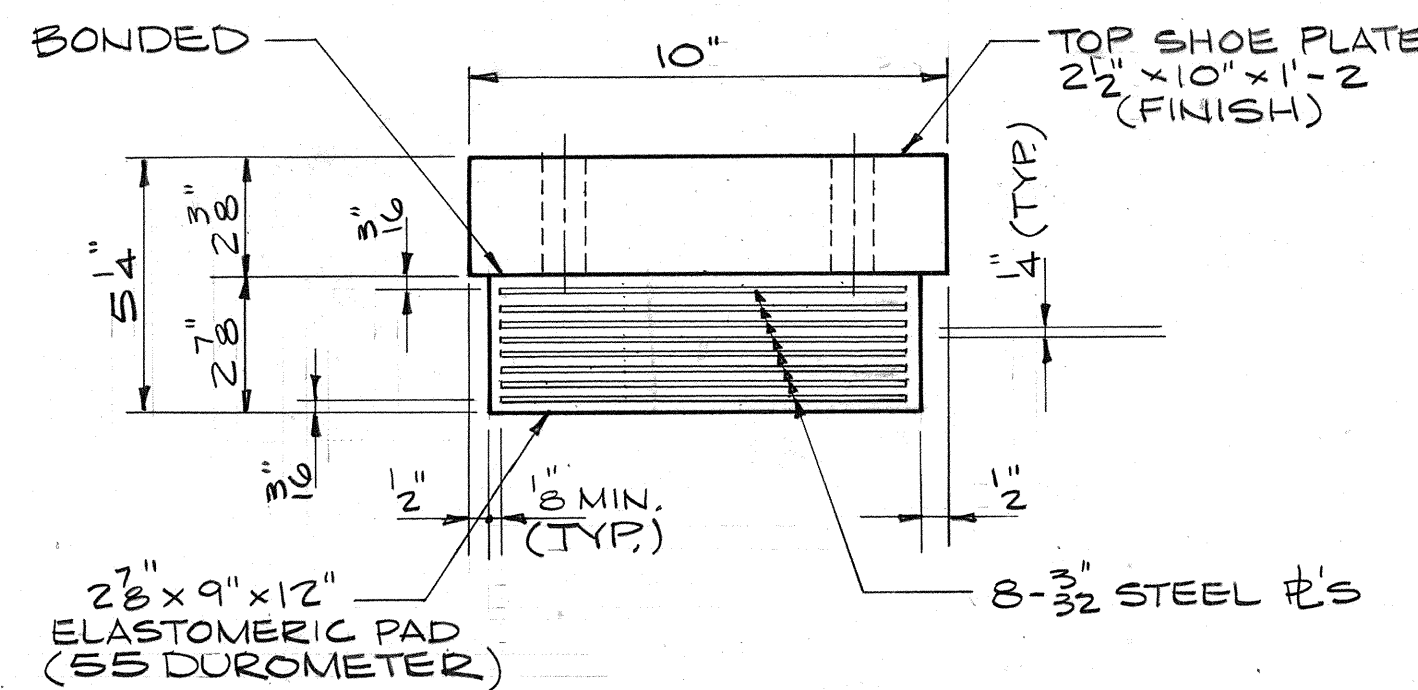
SF-22317



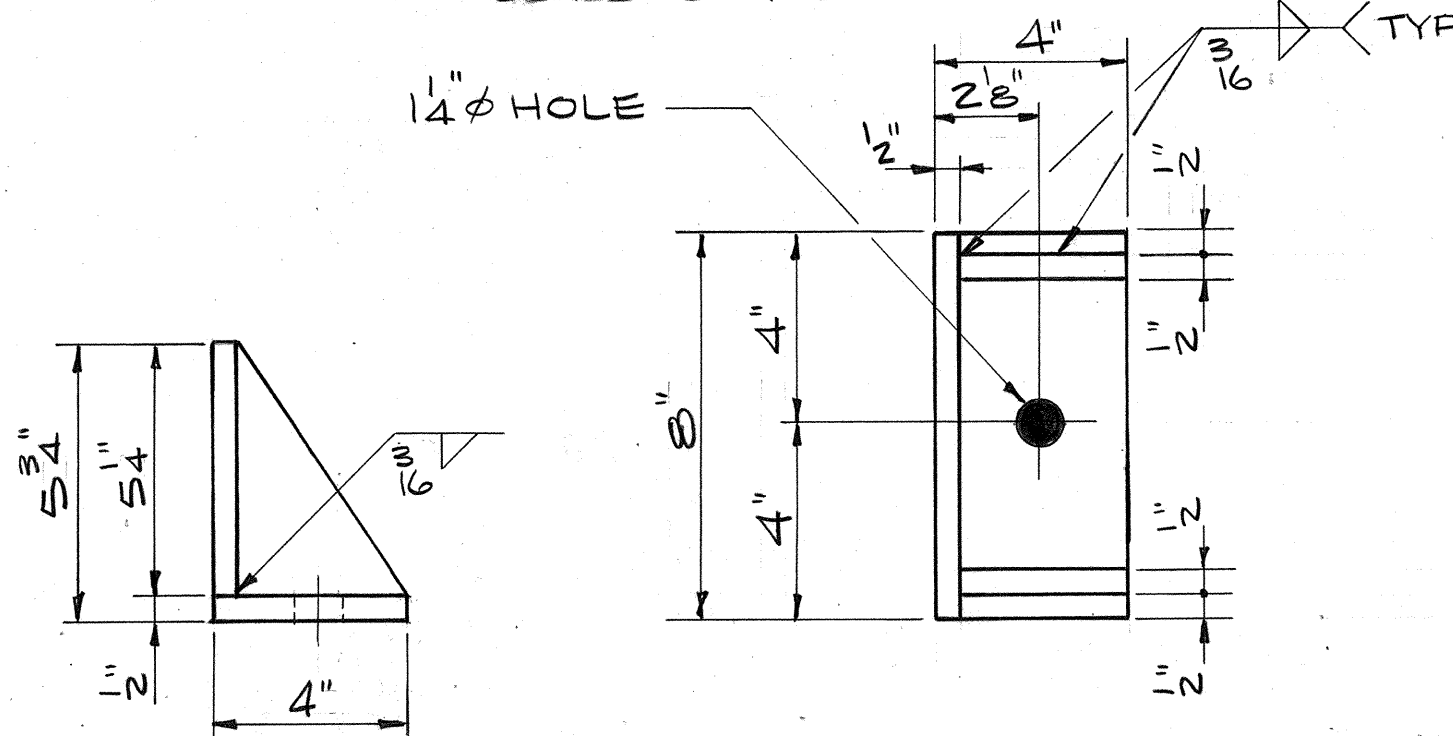
BEARING ASSEMBLY TYPE I
BENT NO. 2
NO SCALE



TOP SHOE PLATE
SCALE: 3" = 1'-0"

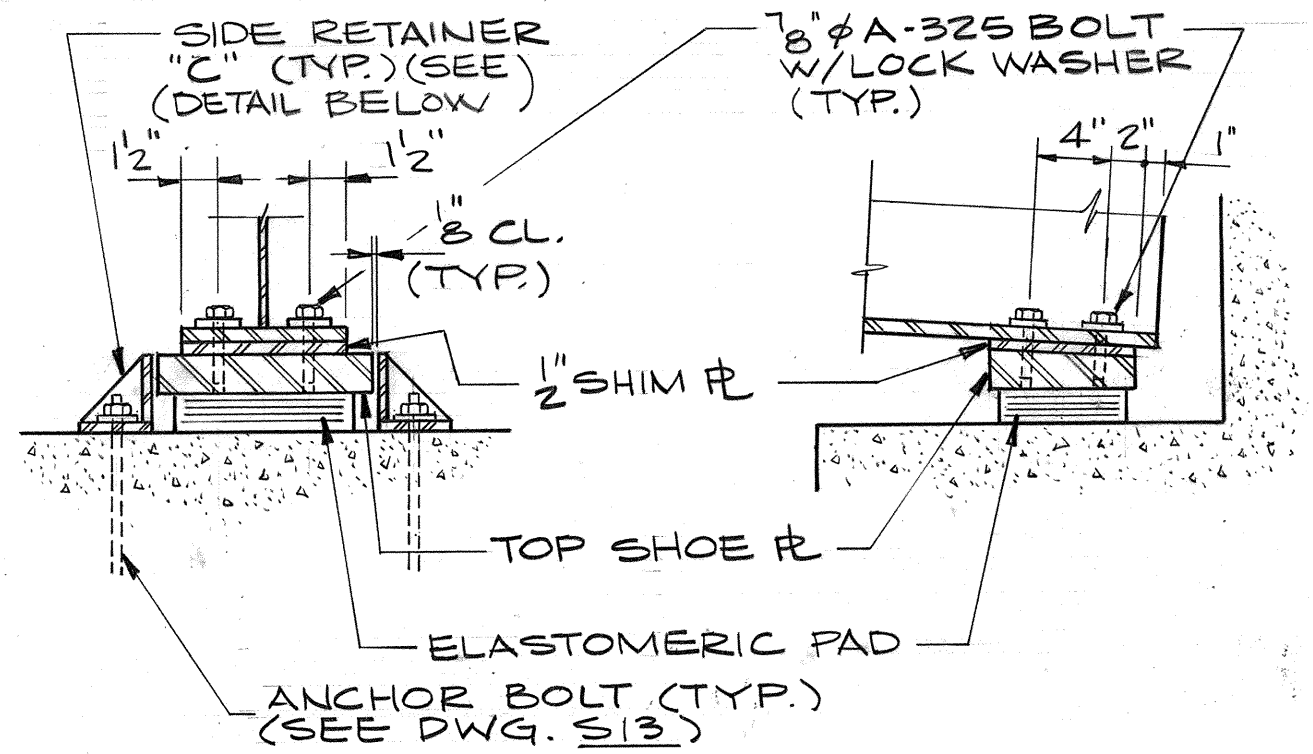


ELASTOMERIC BEARING
SCALE: 3" = 1'-0"

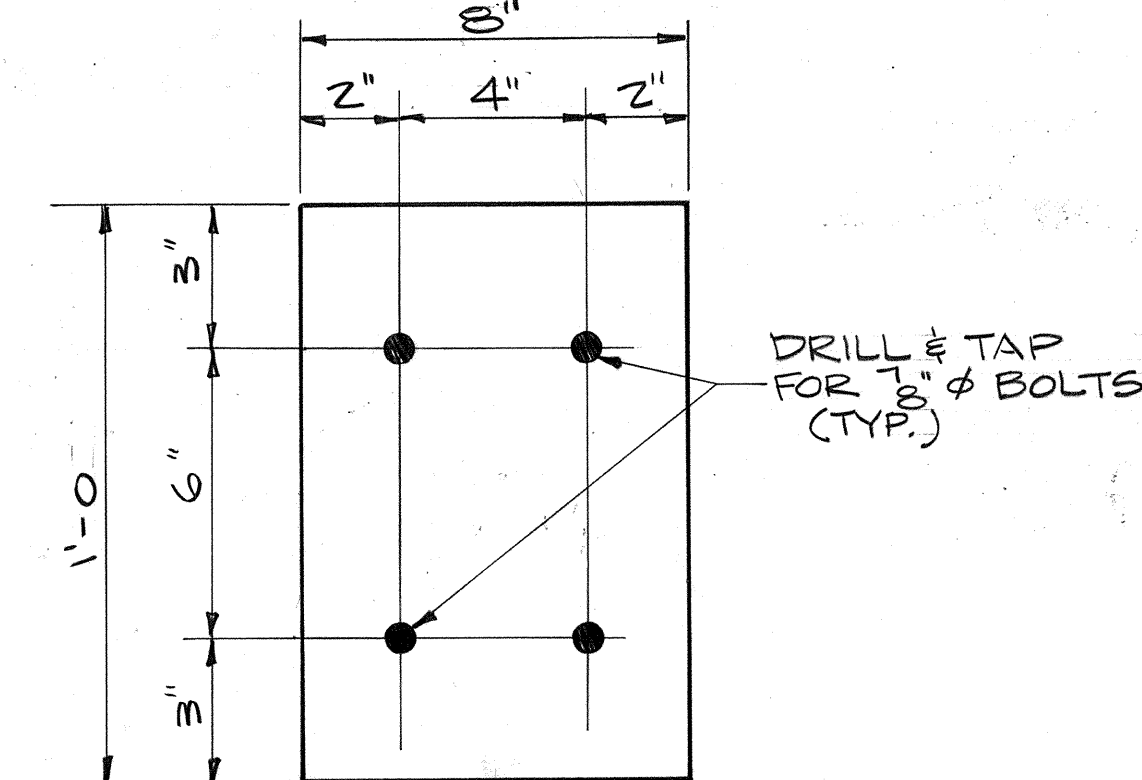


SIDE RETAINER "B" DETAIL
NO SCALE

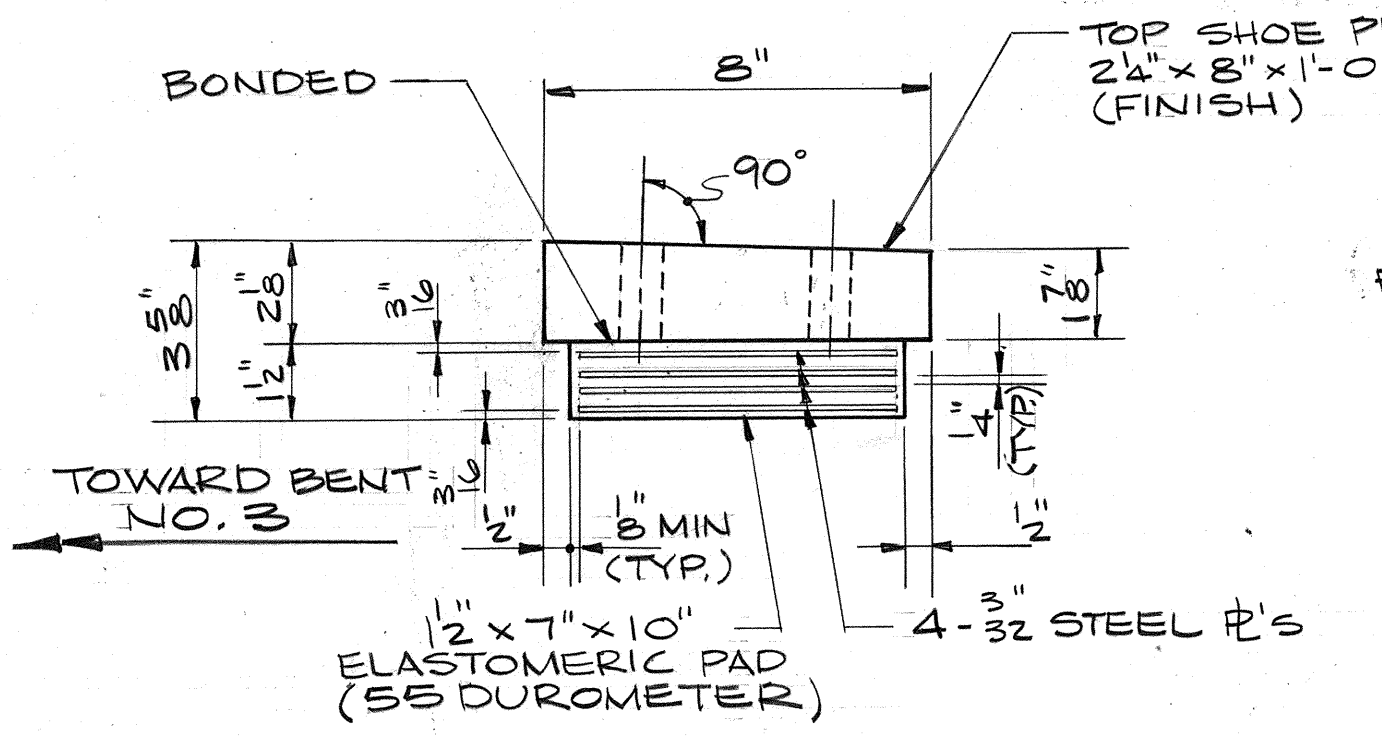
BEARING ASSEMBLY TYPE I DETAILS
BENT NO. 2



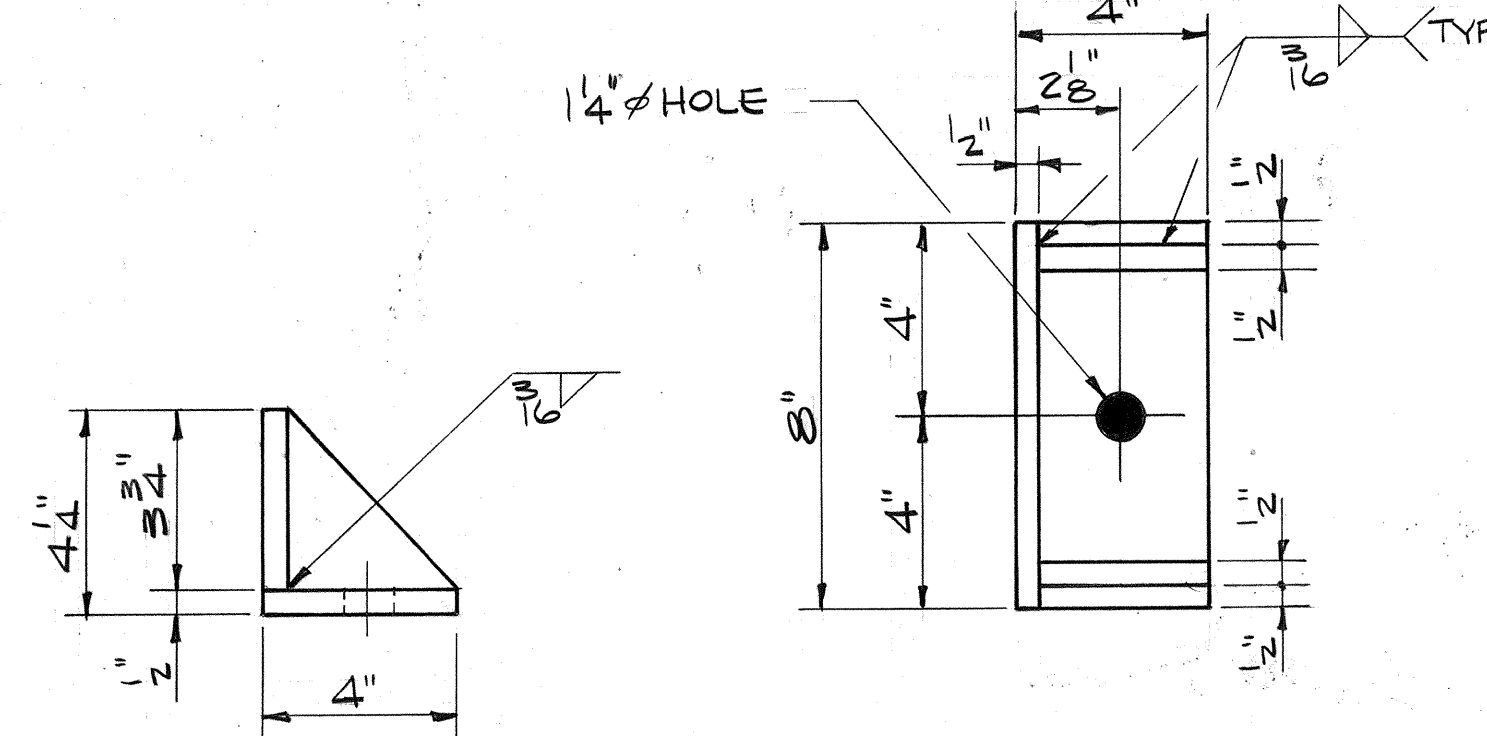
BEARING ASSEMBLY TYPE I
BENT NO. 4
NO SCALE



TOP SHOE PLATE
SCALE: 3" = 1'-0"

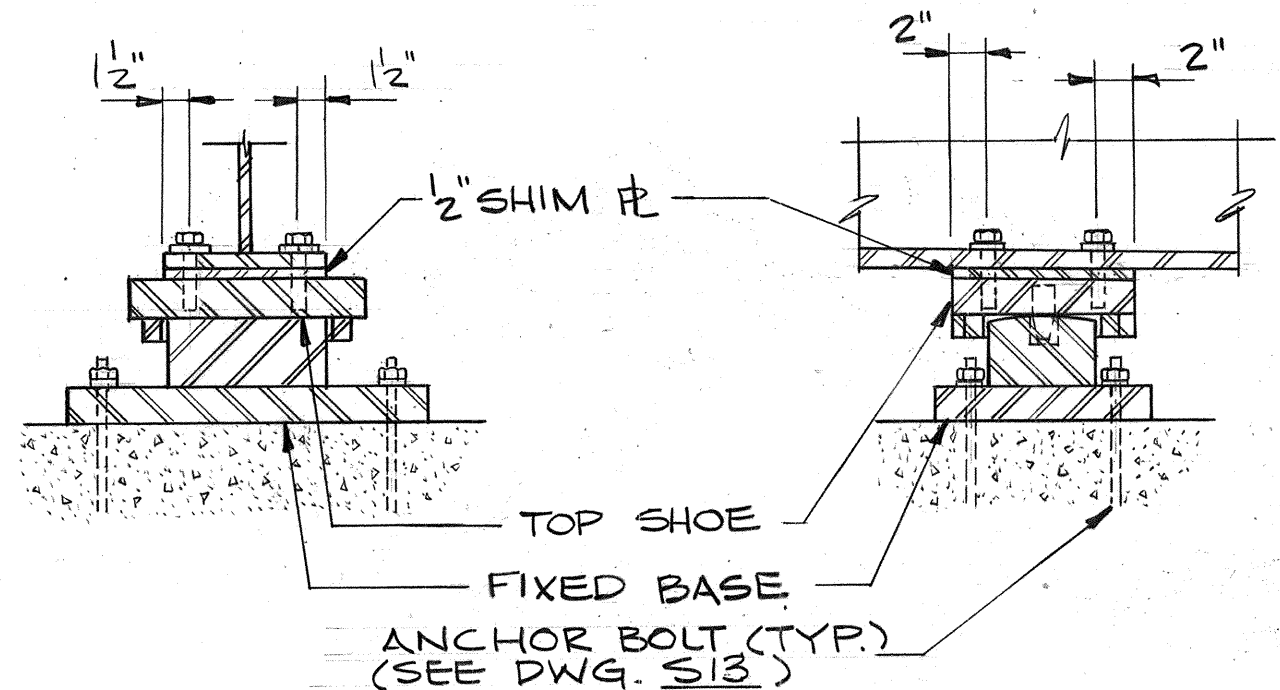


ELASTOMERIC BEARING
SCALE: 3" = 1'-0"

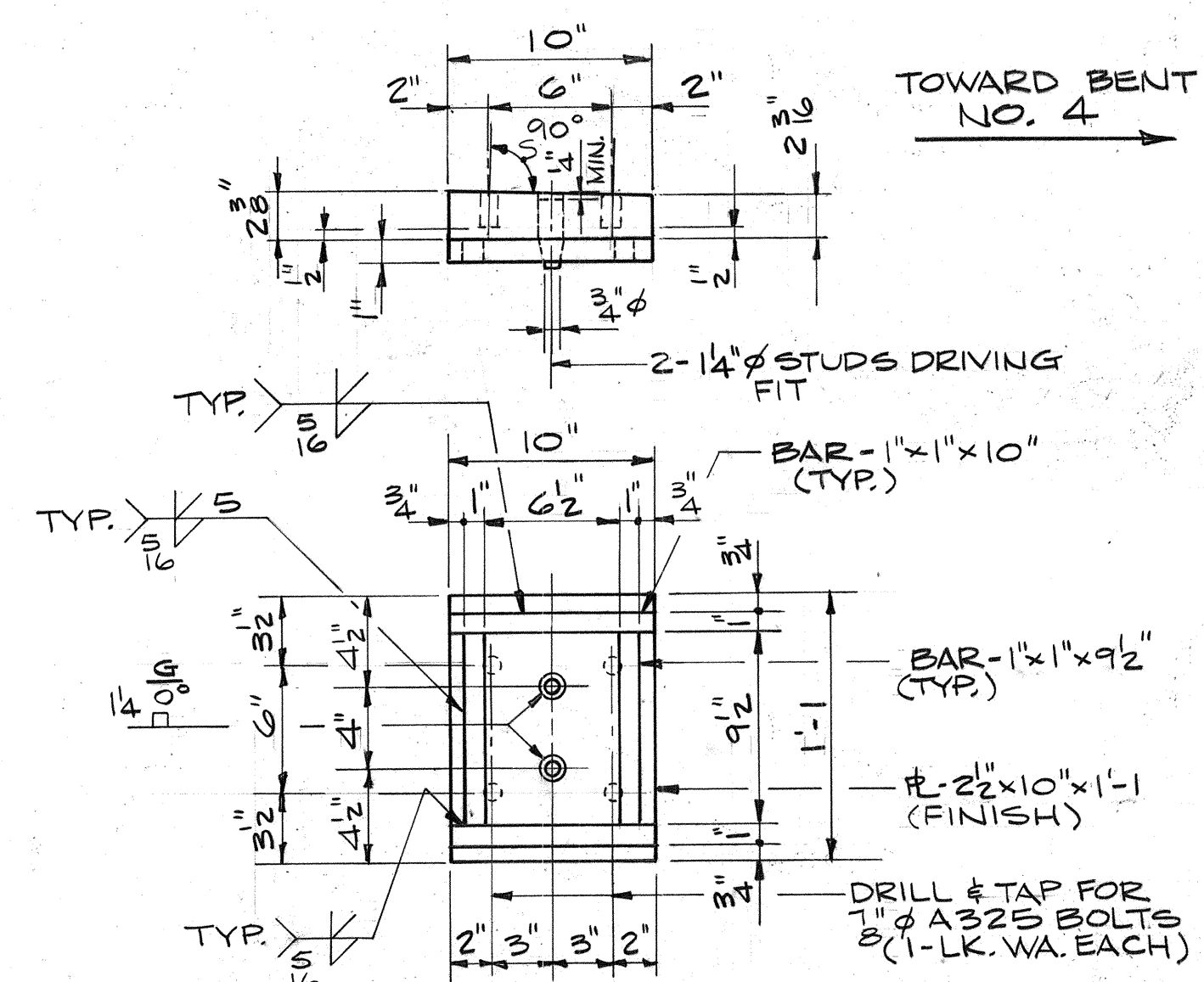


SIDE RETAINER "C" DETAIL
NO SCALE

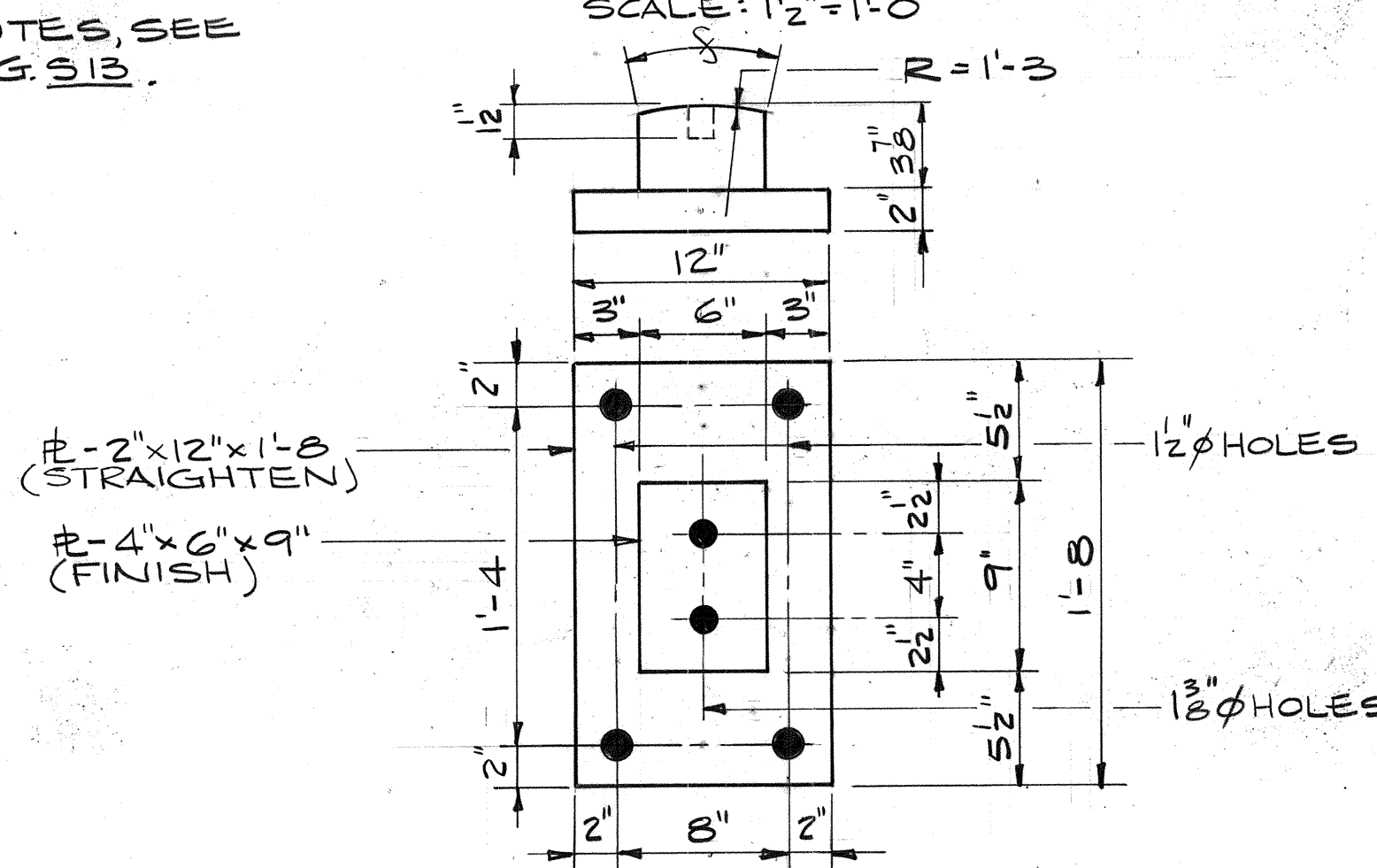
BEARING ASSEMBLY TYPE I DETAILS
BENT NO. 4



FIXED BEARING ASSEMBLY
BENT NO. 3
NO SCALE



TOP SHOE PLATE
SCALE: 1/2" = 1'-0"



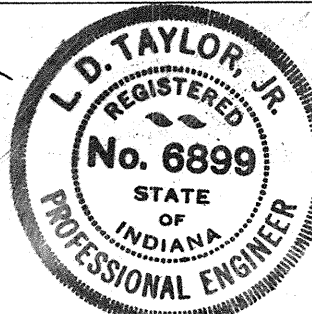
FIXED BASE
SCALE: 1/2" = 1'-0"

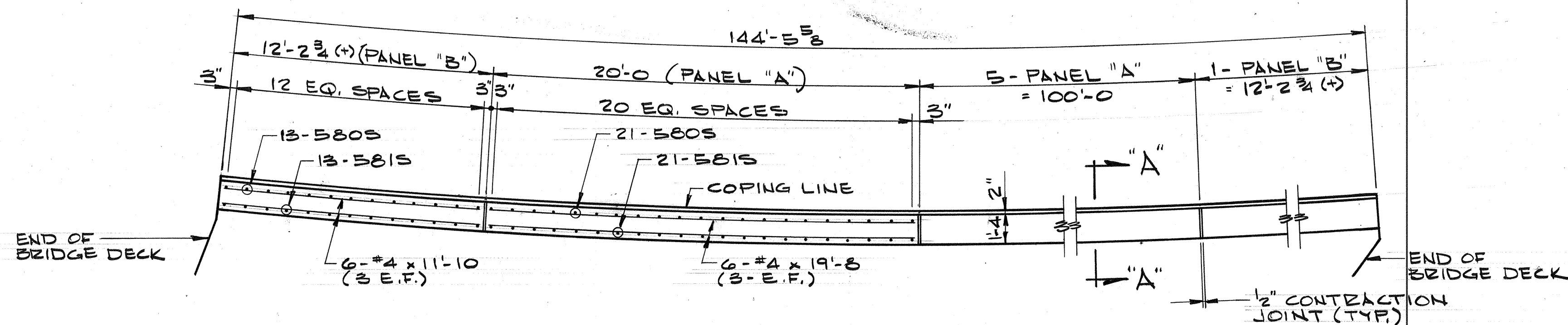
FIXED BEARING DETAIL BENT NO. 3

BEARING DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

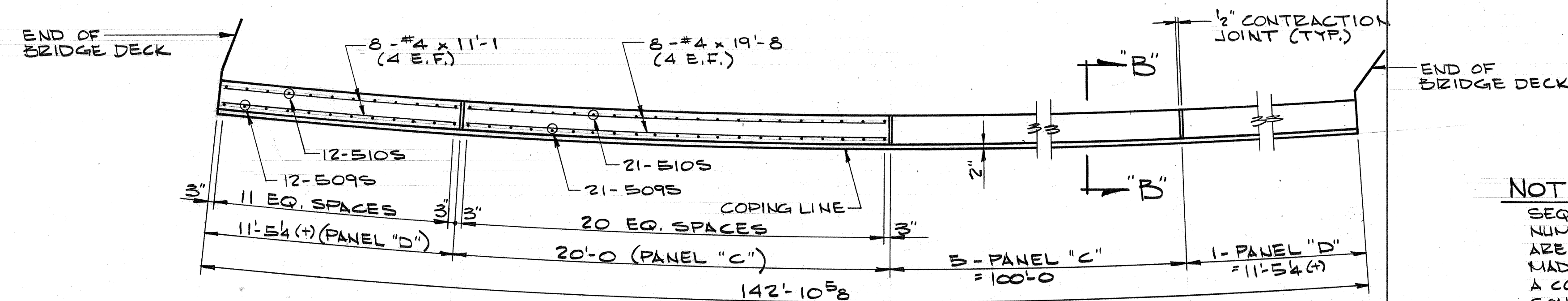
SCALE: -AS NOTED DATE: July 7 1992

DRAWING: S15 OF S19 SHEET: 22 OF 59
PROJECT: IR-465-4C STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649 DRB

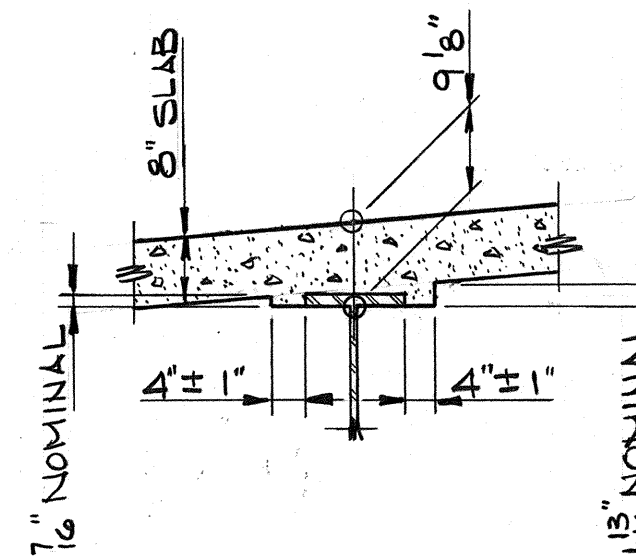




CONCRETE BARRIER RAILING - ALONG EAST COPING
SCALE: 1/4\"/>

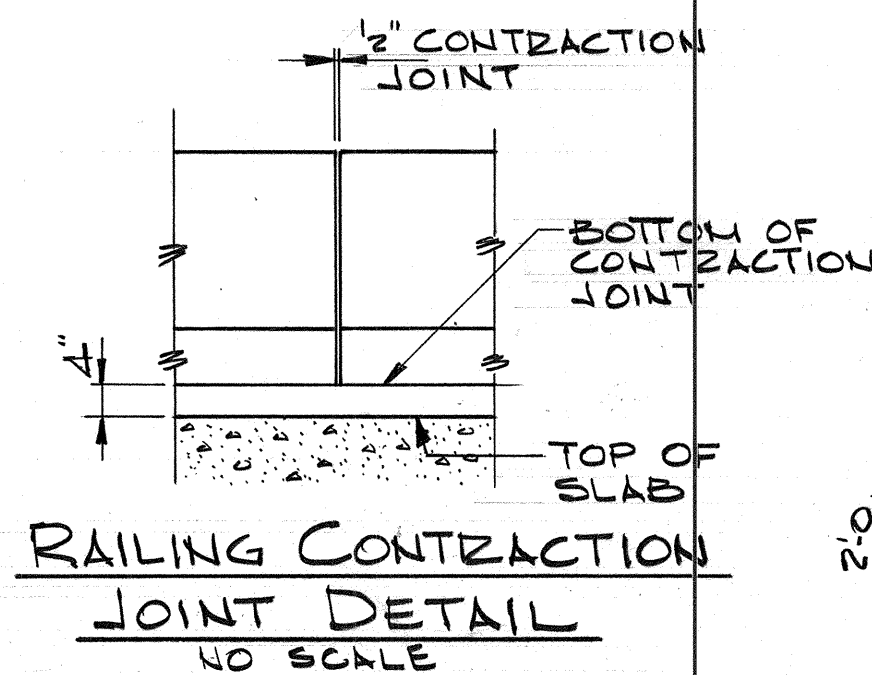


CONCRETE BARRIER RAILING - ALONG WEST COPING
SCALE: 1/4\"/>

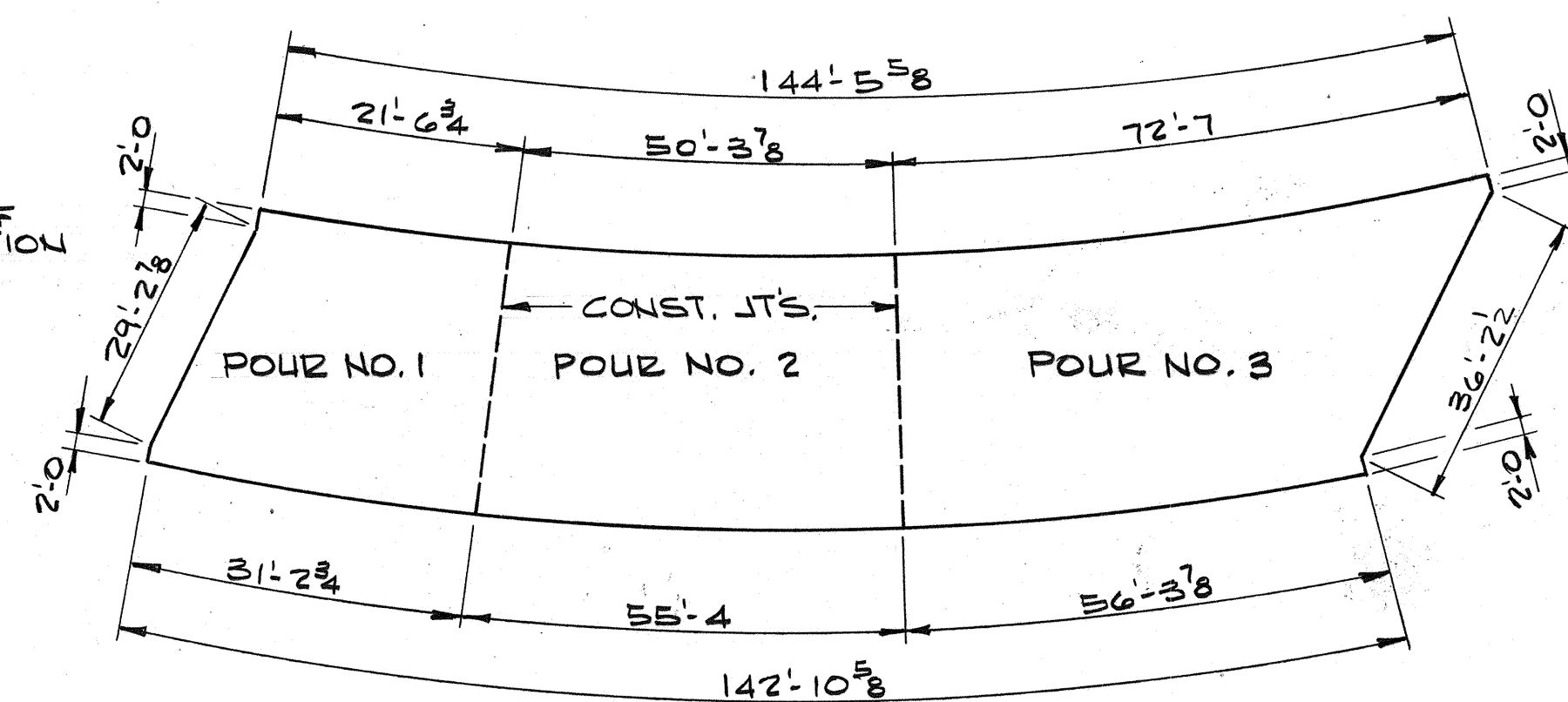


FILLET DETAIL
NO SCALE

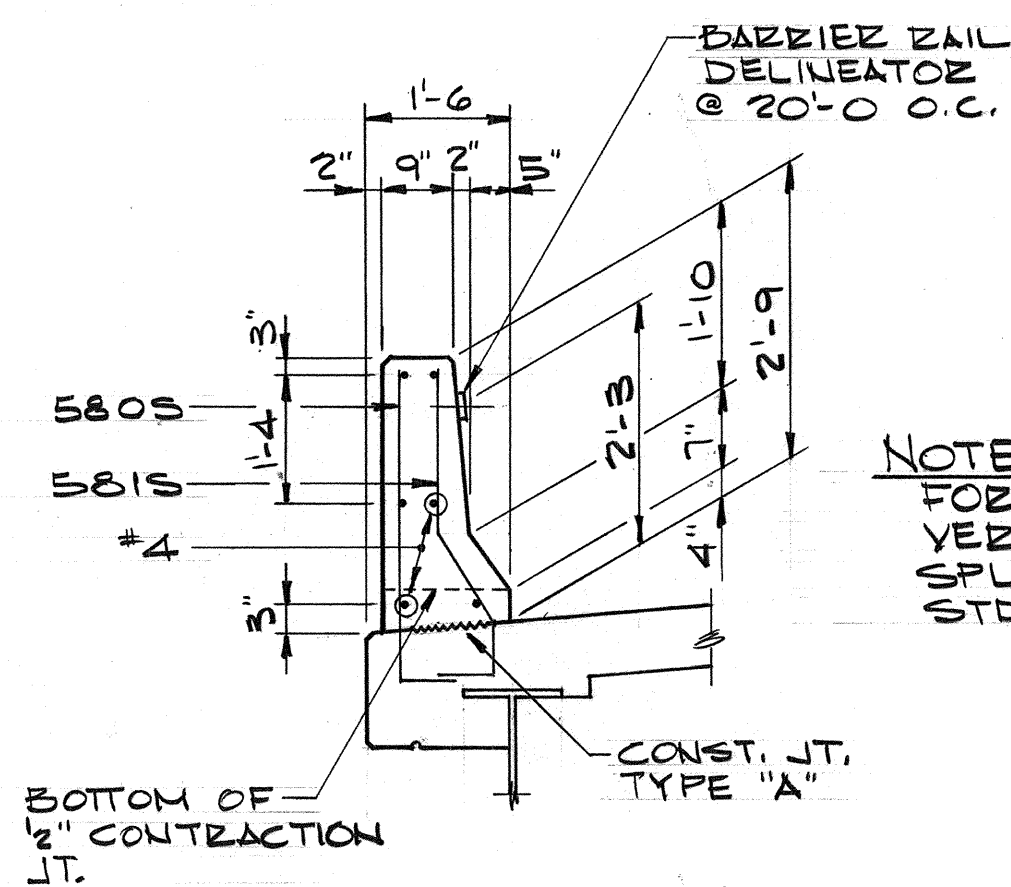
NOTE:
SEQUENCE OF POURS TO BE MADE IN THE ORDER OF FOUR NUMBERS. ALL SUPERSTRUCTURE CONSTRUCTION JOINTS ARE OPTIONAL, EXCEPT AS NOTED, AND POURS MAY BE MADE CONTINUOUS PROVIDED THE POUR TERMINATES AT A CONSTRUCTION JOINT INDICATED ON THE PLANS. THE CONTRACTOR MAY CHANGE THE WIDTH OF POURS, SEQUENCE OF POURS OR LOCATION OF CONSTRUCTION JOINTS SUBJECT TO THE APPROVAL OF THE ENGINEER.



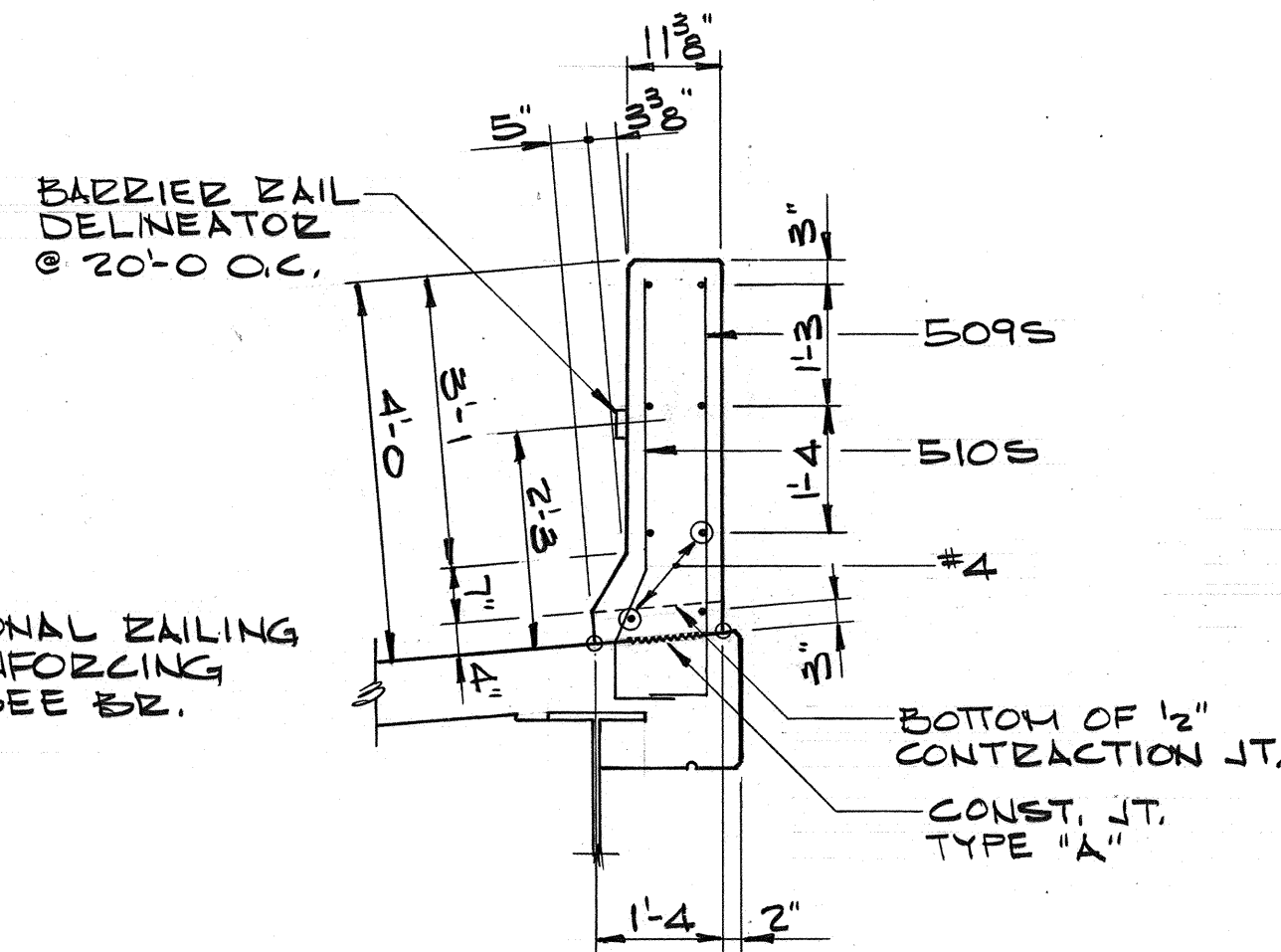
RAILING CONTRACTION JOINT DETAIL
NO SCALE



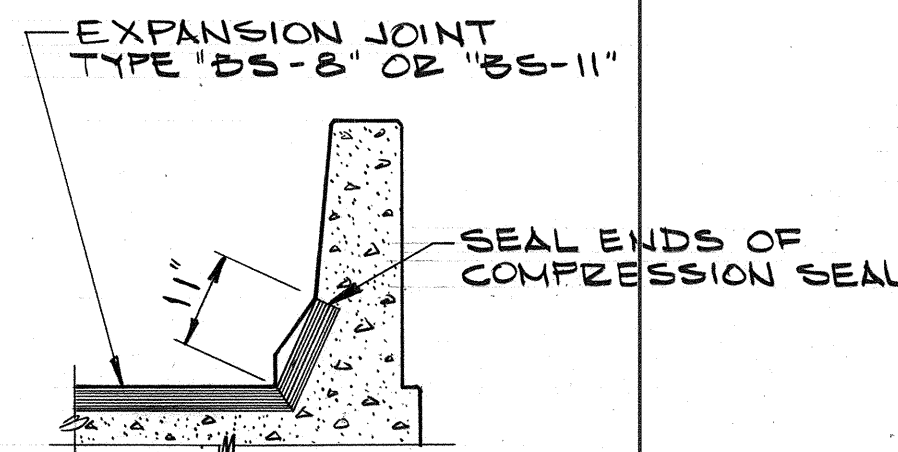
SCHEDULE OF POURS
NO SCALE



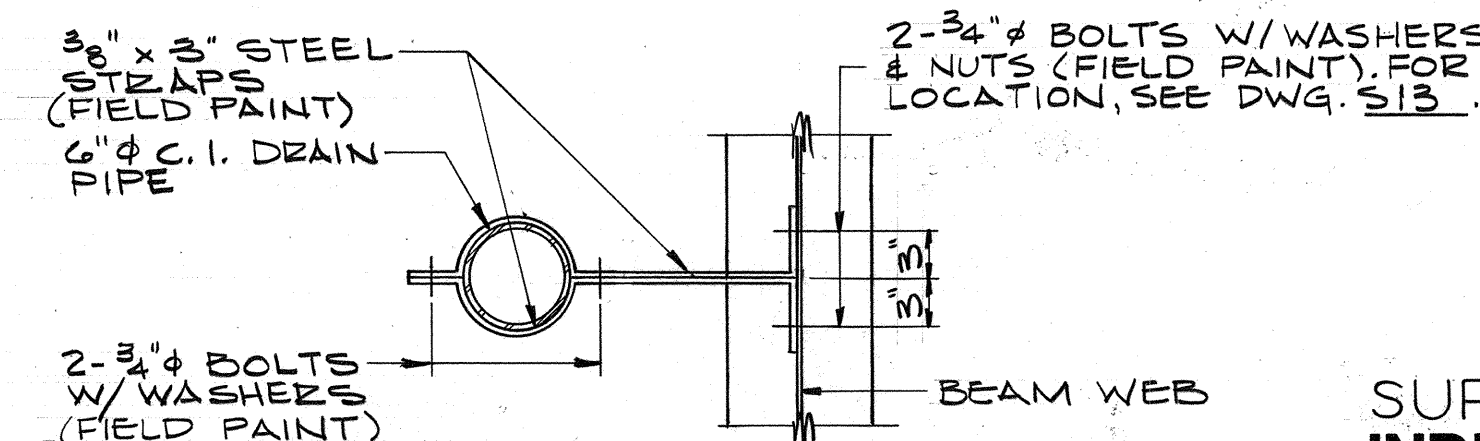
SECTION "A-A"
SCALE: 1/2\"/>



SECTION "B-B"
SCALE: 1/2\"/>



EXP. JT. TYPE "BS-8" & "BS-11" TREATMENT @ BARRIER RAILING
NO SCALE



PIPE SUPPORT BRACKET DETAIL
NO SCALE

NOTE:
PIPE SUPPORT BRACKET TO BE INCLUDED IN THE COST OF 6\"/>

BILL OF MATERIALS			
NO. OR SIZE	NO. PCS.	LENGTH	WEIGHT
#6	64	33'-0	3,172#
TOTAL #6			
5015	612	6'-0	
5025	1	3'-7	
5035	1	4'-4	
5045	1	5'-2	
5055	1	3'-2	
5065	1	4'-3	
5075	1	5'-3	
5085	1	6'-3	
5095	150	4'-11	
5105	150	5'-1	
5805	152	3'-9	
5815	152	3'-11	
#5	1	457'-4	GROUP "A"
#5	1	562'-5	GROUP "B"
#5	1	363'-0	GROUP "C"
#5	1	447'-6	GROUP "D"
#5	142	40'-0	
#5	3	36'-6	
#5	1	31'-4	
#5	39	29'-6	
#5	1	28'-1	
#5	278	26'-1	
#5	8	25'-9	
#5	7	24'-4	
#5	7	22'-1	
#5	286	20'-0	
#5	278	14'-10	
#5	8	10'-0	
#5	6	9'-7	
#5	16	6'-6	
#5	2	3'-6	
#5	10	3'-3	
TOTAL #5			34,530#
4015	145	2'-9	
4025	143	3'-0	
4035	64	2'-8	
4045	145	1'-10	
4055	143	2'-1	
#4	99	40'-0	
#4	84	19'-8	
#4	66	14'-3	
#4	12	11'-10	
#4	16	11'-1	
TOTAL #4			5,634#
TOTAL EPOXY COATED REINF.			43,336#

SUPERSTRUCTURE DETAILS
INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: - AS NOTED

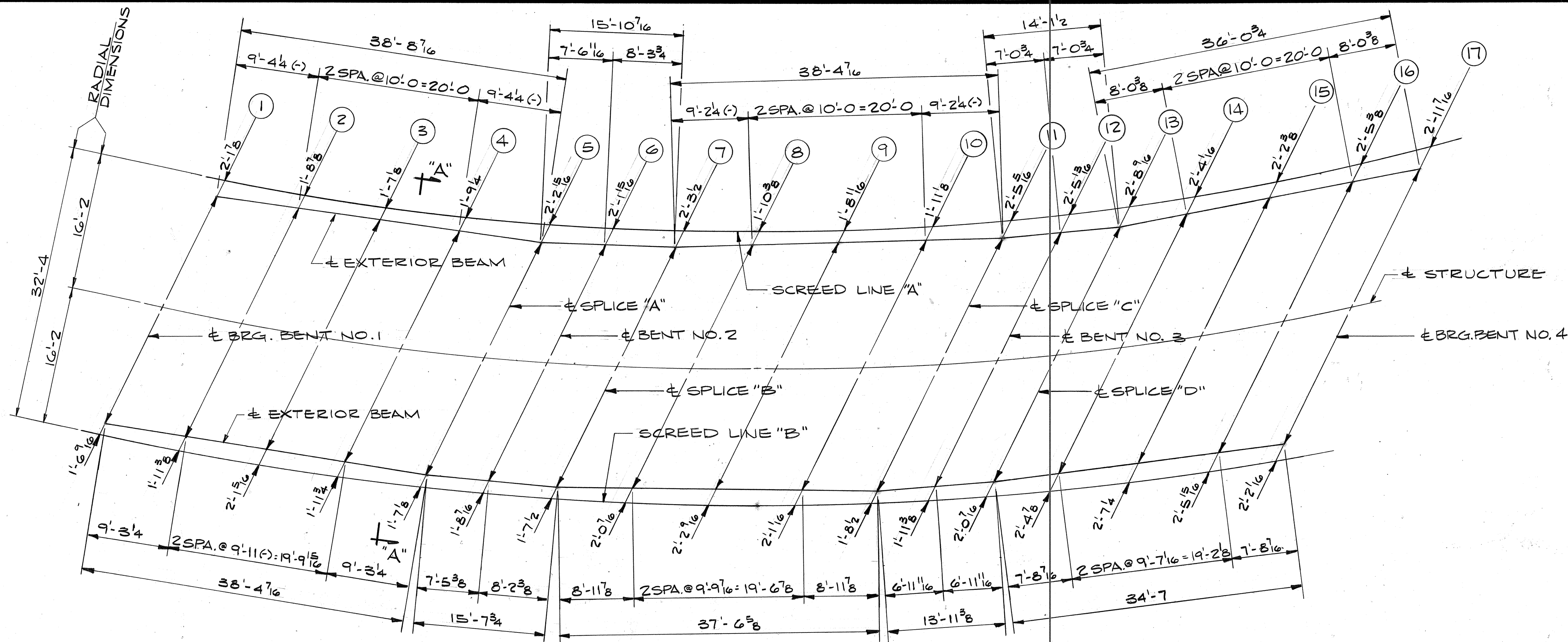
DATE: July 7 1992

DRAWING: S18 OF S19 SHEET: 25 OF 59
PROJECT: IR - 465 - 4() STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I - 465 - 154 - 4649 DRB



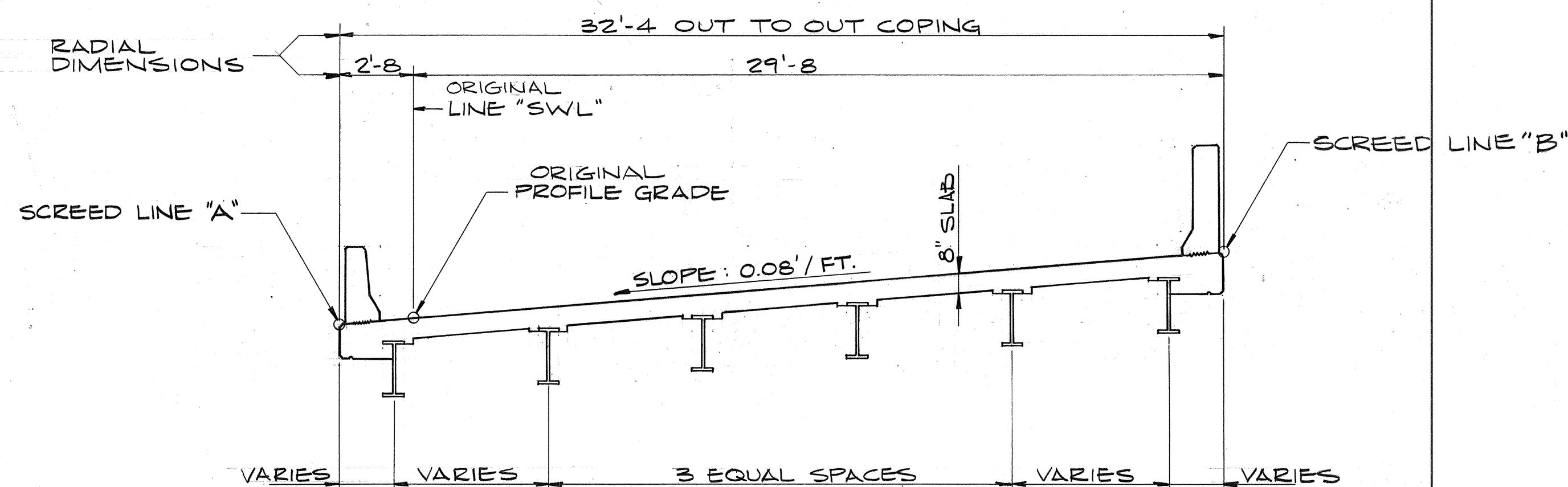
DESIGNED: TSS C.K.D. MP
DRAWN: S.F. C.K.D. LS
TRACED: C.K.D.

SF-22317



SCREED PLAN
NO SCALE

		TABLE OF ELEVATIONS																
LINE	LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
"A"	ELEVATION TOP OF SLAB	801.190	801.220	801.220	801.175	801.100	801.030	800.955	800.860	800.725	800.545	800.350	800.195	800.045	799.865	799.615	799.310	799.030
	ELEVATION TOP OF EXTERIOR BEAM																	
	OFFSET																	
"B"	ELEVATION TOP OF SLAB	803.750	803.805	803.825	803.805	803.755	803.710	803.665	803.610	803.525	803.400	803.260	803.150	803.045	802.925	802.745	802.530	802.330
	ELEVATION TOP OF EXTERIOR BEAM																	
	OFFSET																	



SECTION "A-A"
SCALE: 1/4" = 1'-0"

GENERAL PROCEDURE

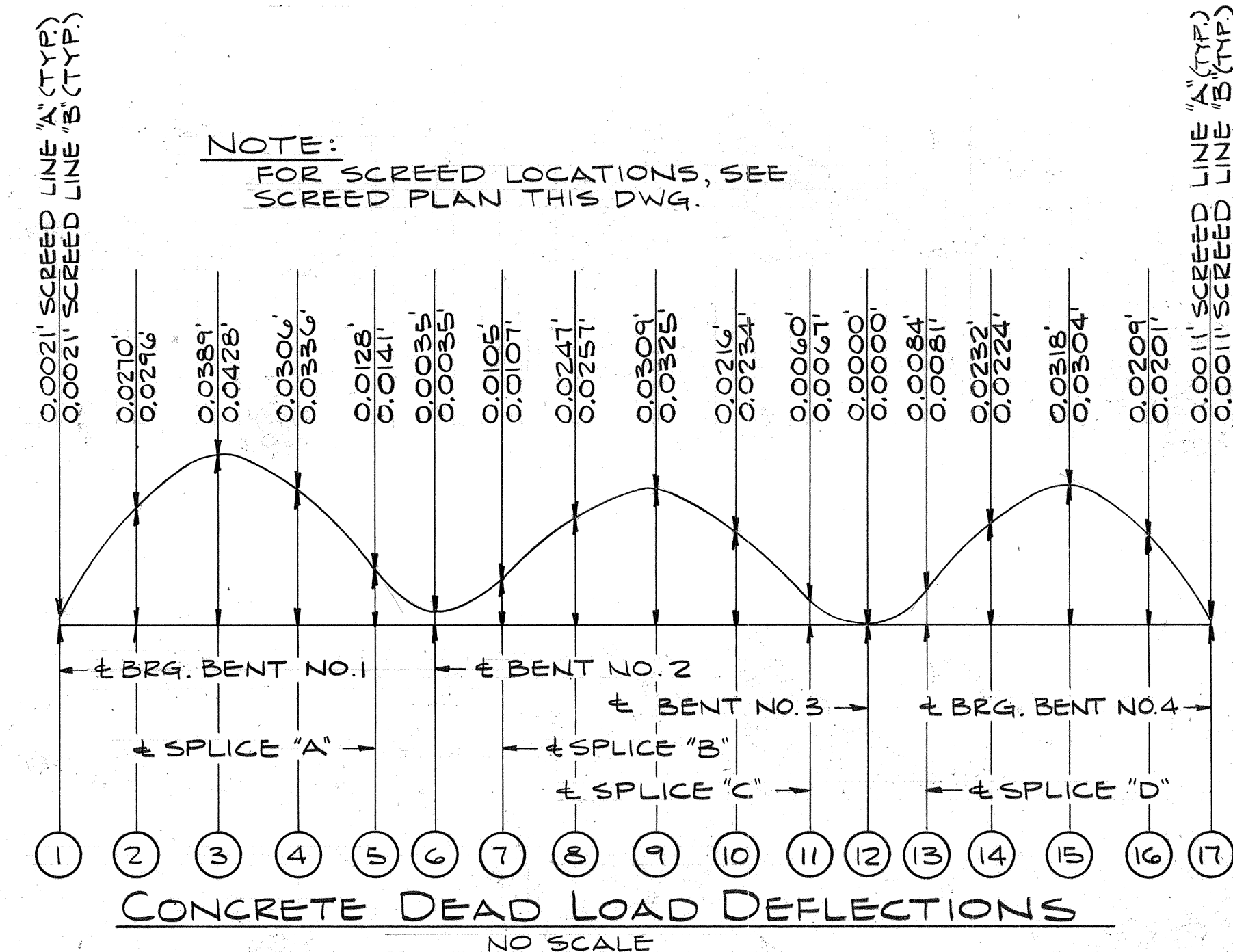
1. AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, TAKE ELEVATIONS AT ALL SCREED POINTS ON TOP OF ADJACENT BEAM. ENTER THESE ELEVATIONS IN "TABLE OF ELEVATIONS", THIS DWG. SUBTRACT THESE ELEVATIONS FROM THE TABULATED ELEVATIONS AND USE THE RESULTING DIMENSION AS THE HEIGHT FOR SETTING THE SCREED OR COPING FORMS ABOVE THAT POINT ON THE BEAM. THIS DIMENSION REMAINS CONSTANT REGARDLESS OF HOW MUCH OR IN WHAT ORDER THE CONCRETE IS POURED. DO NOT SET SCREED OR COPING FORMS BY LEVELING.
2. NO CONCRETE IN THE FLOOR IS TO BE POURED UNTIL THE ABOVE OPERATIONS ARE COMPLETE.
3. SCREED ELEVATIONS FOR ALL BEAM LINES ARE ON FILE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION.

NOTES:

1. "SCREED PLAN" SHOWS LOCATION OF SCREEDS.
2. "TABLE OF ELEVATIONS" SHOWS DATA FOR SETTING SCREED AND COPING FORMS SO THAT THE SLAB AND COPING WILL BE AT FINAL GRADE AFTER ALL CONCRETE HAS BEEN POURED.
3. SEE DWG. S2 FOR GENERAL NOTES.
4. SCREED ELEVATION POINTS ARE PARALLEL TO SKEW.
5. SEE DWG'S. S16, S17 & S18 FOR ADDITIONAL DETAILS.

NOTE:

FOR SCREED LOCATIONS, SEE SCREED PLAN THIS DWG.



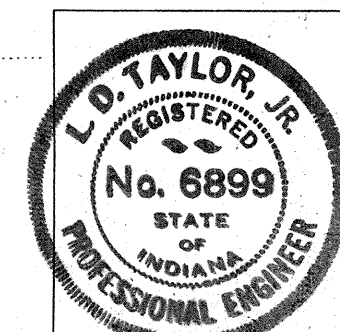
SCREED DATA INDIANA DEPARTMENT OF TRANSPORTATION

SCALE: - AS NOTED

DATE: July 7 1992

SENIOR DESIGNER

DRAWING: S19 OF S19 SHEET: 26 OF 59
PROJECT: IR-465-4() STATION: -
BRIDGE CONTRACT NO. B-19705
BRIDGE FILE: I-465-154-4649DRB



DESIGNED: TSS C.K.D. MP
DRAWN: MM C.K.D. LS
TRACED: C.K.D.

SF-22317

