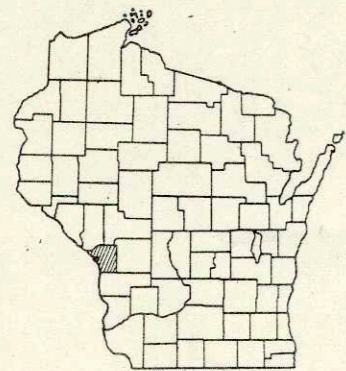


INDEX OF SHEETS

SHEET NO. 1	TITLE
SHEET NO. 2	TYPICAL CROSS SECTIONS
SHEET NO. 3	ESTIMATE OF QUANTITIES
SHEET NO. —	MISCELLANEOUS QUANTITIES
SHEET NO. 4	RIGHT OF WAY PLAT
SHEET NO. 5	PLAN AND PROFILE STA. TO STA.
SHEET NO. —	STANDARD DETAILS
SHEET NO. 6-36	DRAINAGE STRUCTURES
SHEET NO. —	CROSS SECTIONS



STATE OF WISCONSIN
STATE HIGHWAY COMMISSION OF WISCONSIN
 STATE OF MINNESOTA
MINNESOTA DEPARTMENT OF HIGHWAYS

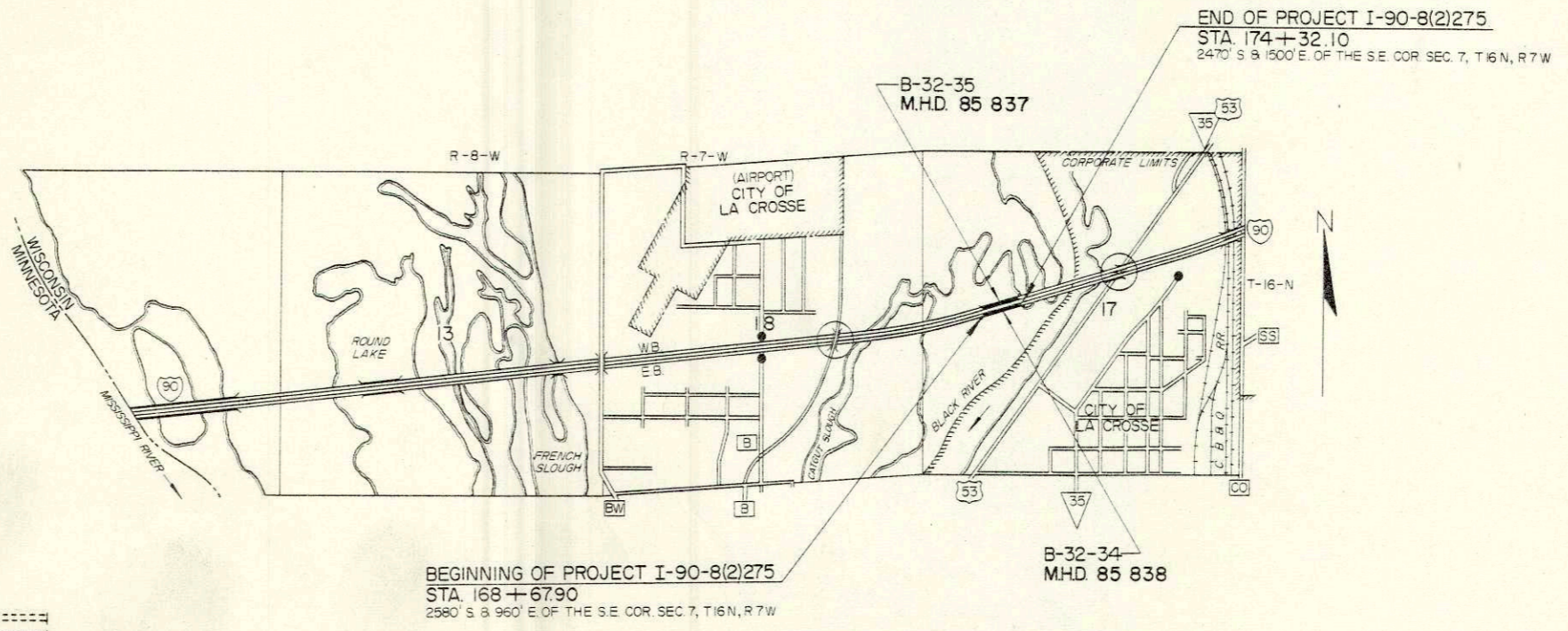
PLAN AND PROFILE OF PROPOSED
MISSISSIPPI RIVER INTERSTATE BRIDGES
 (BLACK RIVER CHANNEL CROSSING)
 I. H. 90
 LA CROSSE COUNTY
 PROJECT I-90-8(2)275

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		S.P.R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.3	90.8		11.2	4 WIS.	1	36

CONTROL OF ACCESS
 WITHIN THE LIMITS OF THE PROJECT, WHERE CONTROL OF ACCESS LINE IS SHOWN THUS NO ACCESS IS PERMITTED TO THE INTERSTATE HIGHWAY TRAFFIC LANES EXCEPT BY RAMPS AT INTERCHANGES.

SCALES

PLAN 1 IN. = 100 FT.
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS SECTIONS HOR. 1 IN. = 10 FT. VERT. 1 IN. = 10 FT.



CONVENTIONAL SIGNS

STATE LINE.....	CULVERTS IN PLACE.....
COUNTY LINE.....	CULVERTS REQUIRED.....
TOWNSHIP OR RANGE LINE.....	DROP INLET.....
SECTION LINE.....	POWER POLE.....
NEW RIGHT OF WAY LINE.....	TELEPHONE OR TELEGRAPH POLE.....
PRESENT RIGHT OF WAY LINE.....	RIGHT OF WAY MARKERS.....
WIRE FENCE { WOVEN.....	REFERENCE STAKE FOR HUBS ONLY.....
BARBED.....	MARSH.....
LOT LINE.....	HEDGE.....
CORPORATE OR CITY LIMITS.....	TREES.....
PROPERTY LINE.....	GROUND ELEVATION..... DATUM LINE 73.9
TRAVELED WAY OR P.E.....	GRADE ELEVATION..... DATUM LINE 75.16
RAILROADS.....	
BASE OR SURVEY LINE.....	

LAYOUT

APPROVED INTERSTATE LOCATION.....
INTERCHANGE.....
HWY. GRADE SEPARATION (MAIN LINE UNDER).....
BRIDGES (MAIN LINE OVER).....
TERMINATED CROSS ROAD.....

BEGINNING OF PROJECT I-90-8(2)275
 STA. 168 + 67.90
 2580' S & 960' E OF THE S.E. COR. SEC. 7, T.16 N, R.7 W

LAYOUT
 SCALE 1 MILE
 TOTAL NET LENGTH OF CENTERLINE = 0.107 MI.

STATE OF MINNESOTA
 DEPARTMENT OF HIGHWAYS
 ST. PAUL, MINN.

APPROVED: _____
 DATE 3-11-63 *A.C. La Roche*
 BRIDGE ENGINEER

APPROVED: _____
 DATE 3-11-63 *J.L. Pelt*
 DISTRICT ENGINEER

STATE HIGHWAY
 COMMISSION OF WISCONSIN
 MADISON, WIS.

SURVEYOR: D.E.K. NOTE BOOK _____
 DIVISION COMPUTER: N.B. N. & CHECKER: W.H.B.
 DISTRICT CHECKER: R.C.J. CORRECT

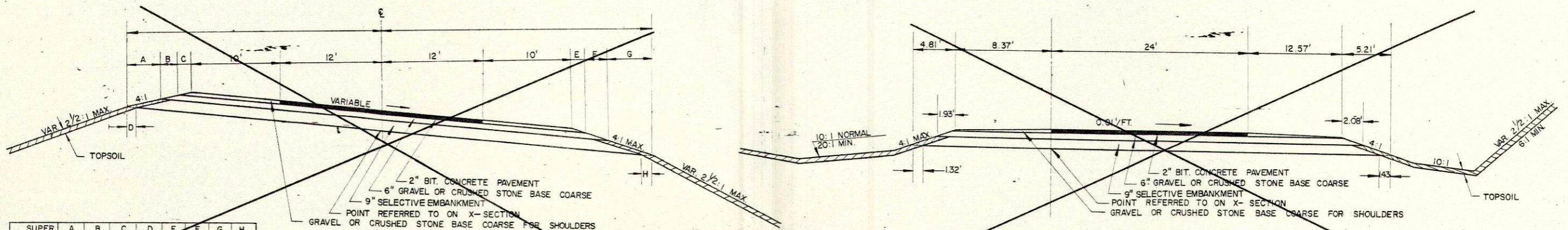
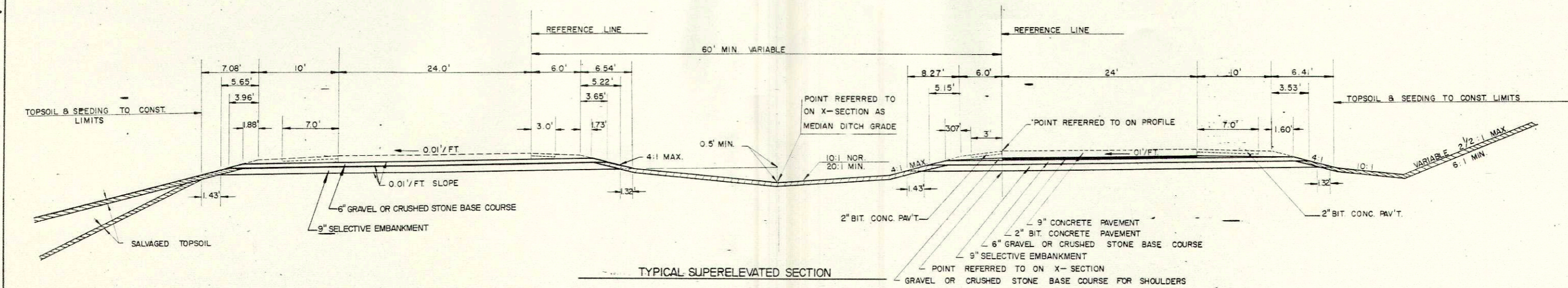
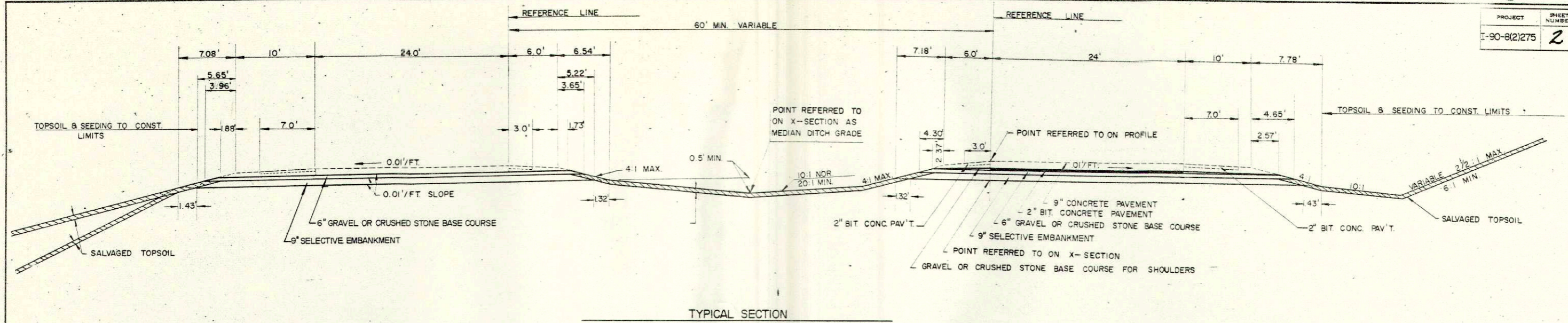
CORRECT: _____
 DATE 3-6-63 *J.M. Gromet*
 DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL:
 DATE 3-8-63 *J.L. Pelt*
 ENGINEER OF DESIGN

APPROVED: _____
 DATE 3/18/63 *E.C. Peterson*
 STATE HIGHWAY ENGINEER

DEPARTMENT OF COMMERCE
 BUREAU OF PUBLIC ROADS

APPROVED: _____
 DATE _____
 DIVISION ENGINEER



CURVE	SUPER	A	B	C	D	E	F	G	H
RIGHT	.01	0.65	1.92	2.88	1.32	0.71	2.08	3.12	1.43
	.02	0.63	1.85	2.78	1.27	0.74	2.17	3.26	1.49
	.03	0.61	1.78	2.68	1.23	0.77	2.27	3.41	1.56
	.04	0.59	1.72	2.59	1.18	0.81	2.38	3.57	1.64
	.05	0.57	1.67	2.50	1.14	0.85	2.50	3.75	1.72
	.06	0.55	1.61	2.42	1.11	0.89	2.63	3.95	1.81

TYPICAL SECTION
TEMPORARY CONNECTION I90-U.S.H. 53
STA 8+53.83 TO 15+ 78.90

LEGEND
 NOTE: NO DIRECT ACCESS PERMITTED BETWEEN THE MAIN ROADWAYS OR RAMPS OF THE INTERSTATE HIGHWAY, AND ADJUTING PROPERTIES.
 SYMBOL TO INDICATE NO ACCESS IS SHOWN THUS

OPENINGS WHERE ACCESS TO HIGHWAY IS PERMITTED

EXISTING PRIVATE DRIVEWAY ALLOWED BY R/W PROJ. T5701(1)

PROPOSED PRIVATE DRIVEWAY ALLOWED BY R/W PROJ. T5701(1)

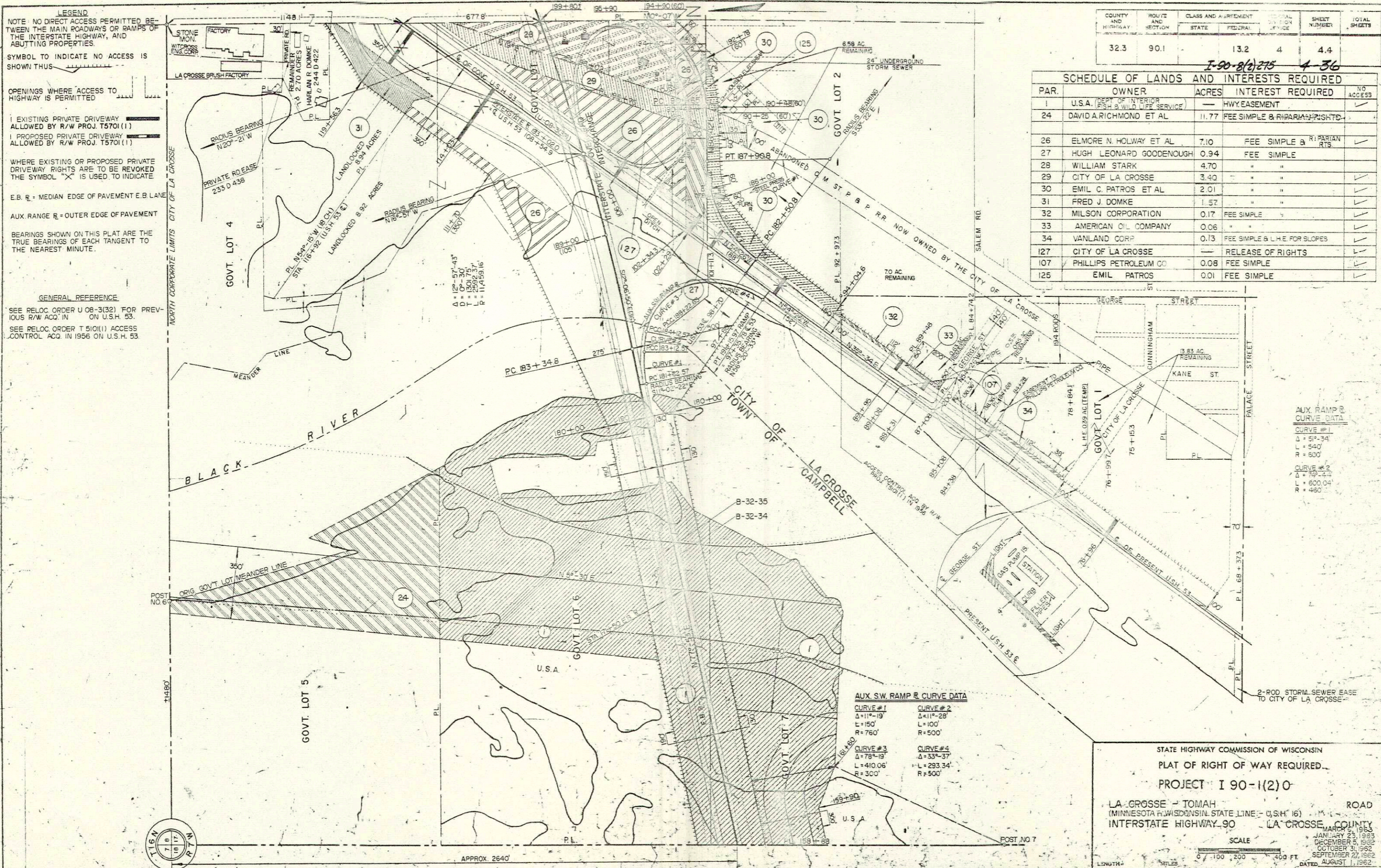
WHERE EXISTING OR PROPOSED PRIVATE DRIVEWAY RIGHTS ARE TO BE REVOKED THE SYMBOL "X" IS USED TO INDICATE

E.B. R = MEDIAN EDGE OF PAVEMENT E.B. LANE

AUX. RANGE R = OUTER EDGE OF PAVEMENT

BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

GENERAL REFERENCE
 SEE RELOC. ORDER U 08-3(32) FOR PREVIOUS R/W ACQ. IN ON U.S.H. 53.
 SEE RELOC. ORDER T 510(1) ACCESS CONTROL ACQ. IN 1956 ON U.S.H. 53.



COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND ADJUSTMENT	FEDERAL	STATE	TOTAL DIVISION SERVICE	SHEET NUMBER	TOTAL SHEETS
32.3	90.1		13.2	4	4.4	I-90-8(2)275 4-36	

SCHEDULE OF LANDS AND INTERESTS REQUIRED

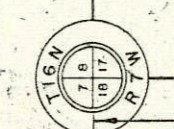
PAR.	OWNER	ACRES	INTEREST REQUIRED	NO ACCESS
1	U.S.A. (DEPT. OF INTERIOR FISH & WILD LIFE SERVICE)	—	HWY. EASEMENT	✓
24	DAVID A. RICHMOND ET AL	11.77	FEE SIMPLE & RIPARIAN RIGHTS	✓
26	ELMORE N. HOLWAY ET AL	7.10	FEE SIMPLE & RIPARIAN RTS	✓
27	HUGH LEONARD GOODENOUGH	0.94	FEE SIMPLE	✓
28	WILLIAM STARK	4.70	" "	✓
29	CITY OF LA CROSSE	3.40	" "	✓
30	EMIL C. PATROS ET AL	2.01	" "	✓
31	FRED J. DOMKE	1.57	" "	✓
32	MILSON CORPORATION	0.17	FEE SIMPLE	✓
33	AMERICAN OIL COMPANY	0.06	" "	✓
34	VANLAND CORP.	0.13	FEE SIMPLE & L.H.E. FOR SLOPES	✓
127	CITY OF LA CROSSE	—	RELEASE OF RIGHTS	✓
107	PHILLIPS PETROLEUM CO.	0.08	FEE SIMPLE	✓
125	EMIL PATROS	0.01	FEE SIMPLE	✓

AUX. RAMP & CURVE DATA
 CURVE #1
 $\Delta = 51^{\circ}34'$
 $L = 540'$
 $R = 600'$
 CURVE #2
 $\Delta = 59^{\circ}04'$
 $L = 460'$
 $R = 460'$

AUX. SW. RAMP & CURVE DATA
 CURVE #1
 $\Delta = 11^{\circ}19'$
 $L = 150'$
 $R = 760'$
 CURVE #2
 $\Delta = 11^{\circ}28'$
 $L = 100'$
 $R = 500'$
 CURVE #3
 $\Delta = 78^{\circ}19'$
 $L = 410.06'$
 $R = 300'$
 CURVE #4
 $\Delta = 33^{\circ}37'$
 $L = 293.34'$
 $R = 500'$

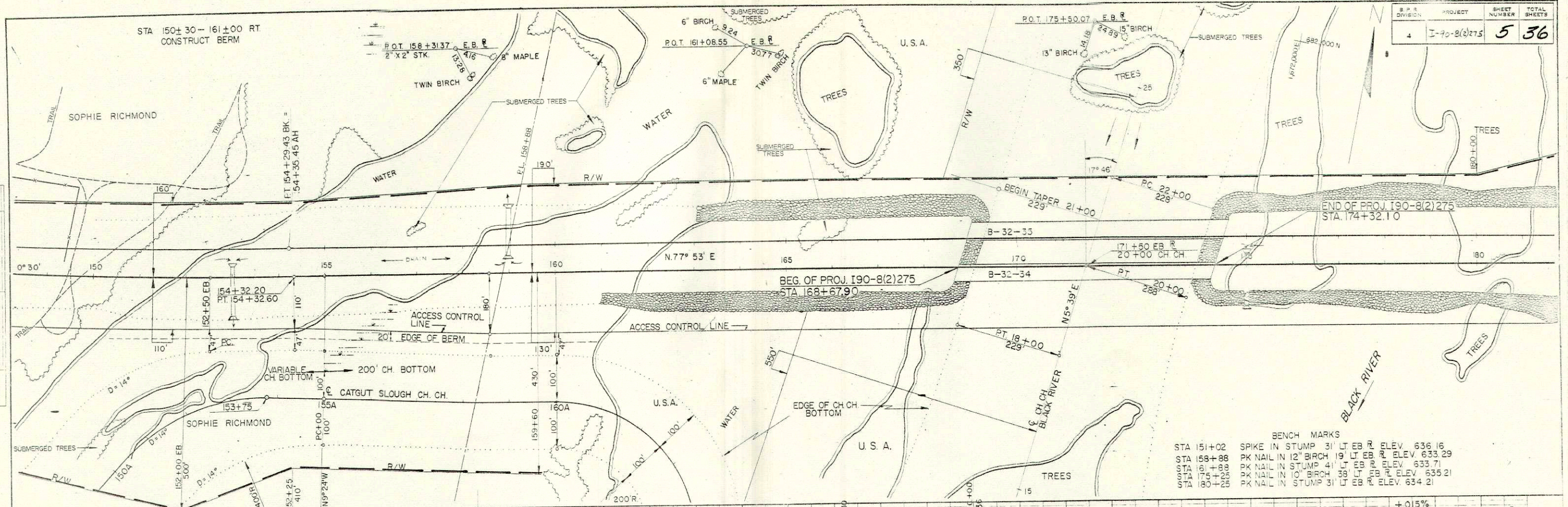
STATE HIGHWAY COMMISSION OF WISCONSIN
 PLAT OF RIGHT OF WAY REQUIRED
 PROJECT I 90-1(2)0
 LA CROSSE - TOMAH ROAD
 (MINNESOTA & WISCONSIN STATE LINE - U.S.H. 16)
 LA CROSSE COUNTY
 JANUARY 23, 1963
 DECEMBER 5, 1962
 OCTOBER 31, 1962
 SEPTEMBER 27, 1962
 DATED AUGUST 1, 1962

SCALE
 0 100 200 400 FT
 LENGTH IN MILES



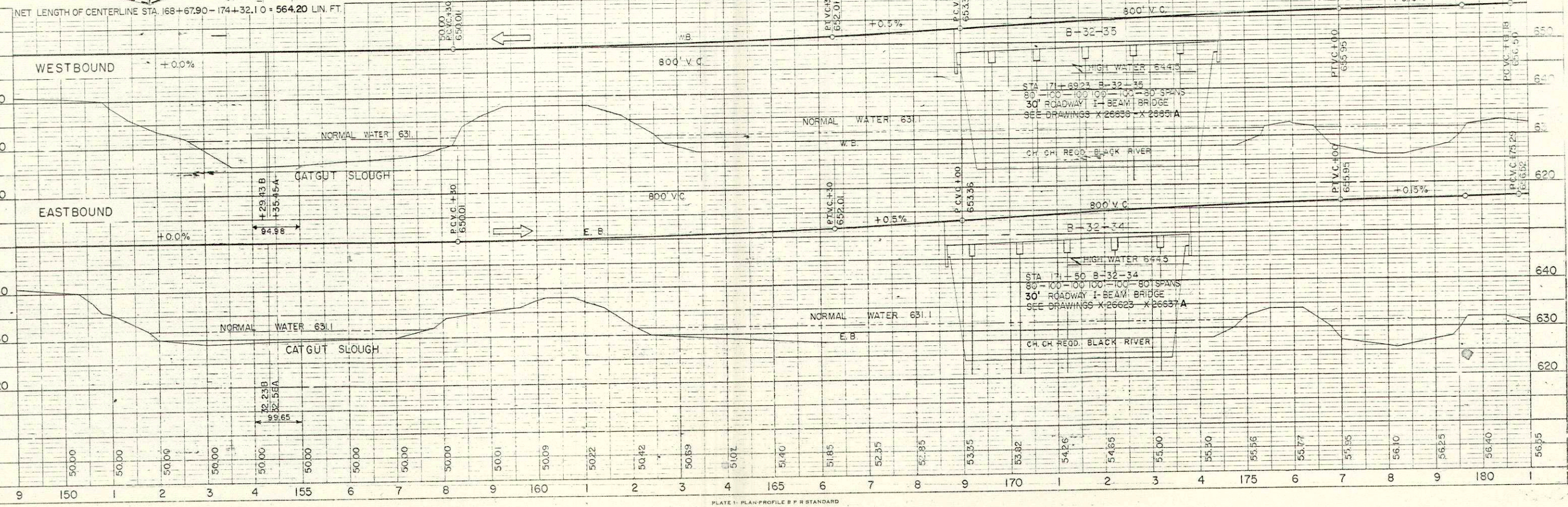
APPROX. 2640'

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	I-70-8(2)275	5	36



BENCH MARKS

STA 151+02	SPIKE IN STUMP 31' LT EB R	ELEV 636.16
STA 158+88	PK NAIL IN 12' BIRCH 19' LT EB R	ELEV 633.29
STA 161+09	PK NAIL IN STUMP 41' LT EB R	ELEV 633.71
STA 175+07	PK NAIL IN 10' BIRCH 39' LT EB R	ELEV 635.21
STA 180+00	PK NAIL IN STUMP 31' LT EB R	ELEV 634.21



PLAN

DATE	BY

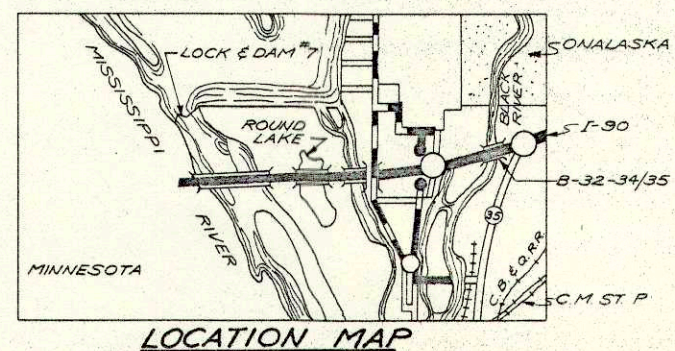
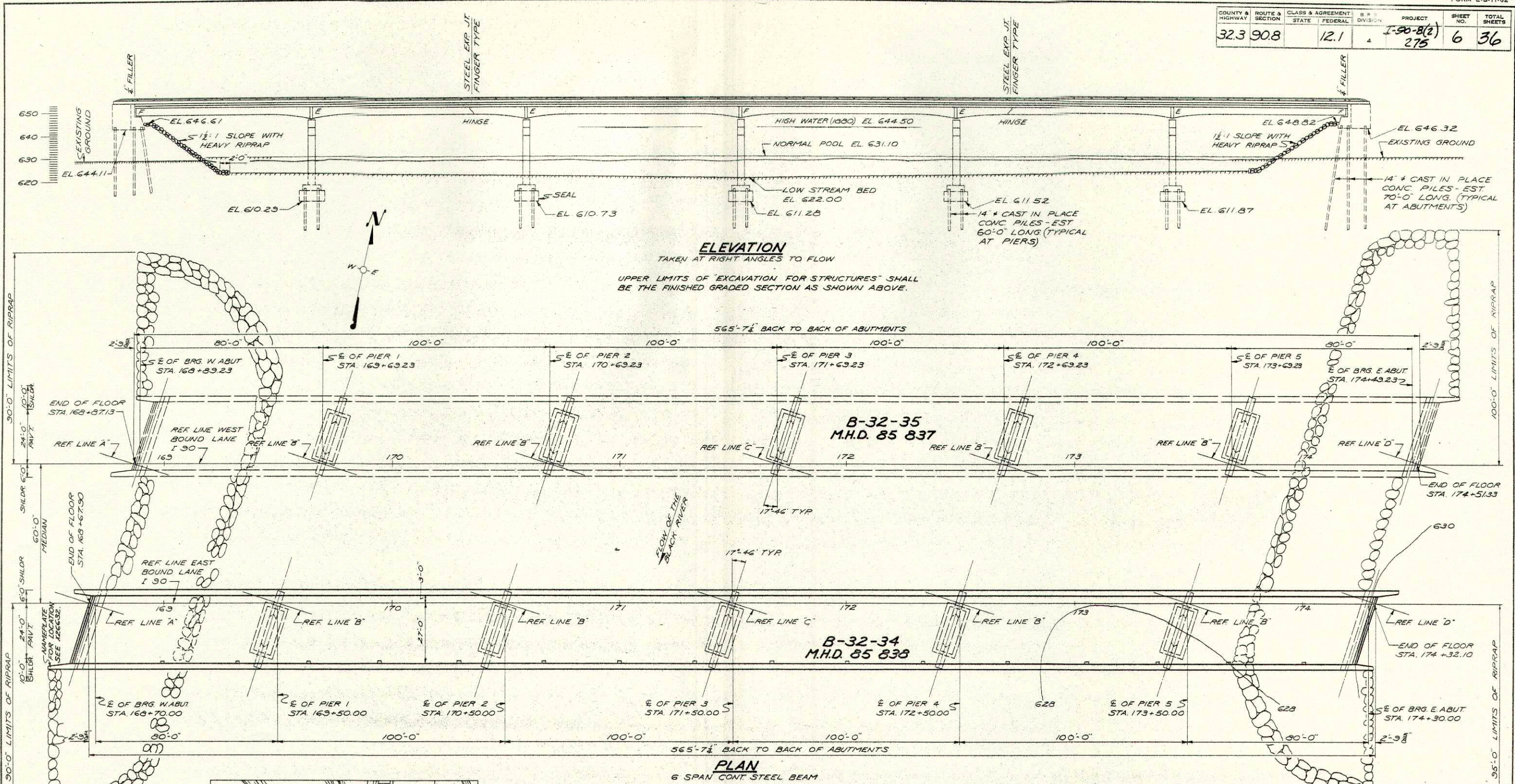
SURVEYED: _____
 NOTE BOOK: _____
 NO. _____
 RT OF WAY CHECKED: _____
 NO. _____

PROFILE

DATE	BY

SURVEYED: _____
 NO. E BOOK: _____
 NO. _____
 GAGES CHECKED: _____
 STRUCTURE NOTATION CHECKED: _____

COUNTY & HIGHWAY	ROUTE & SECTION	CLASS & AGREEMENT	FEDERAL	PROJECT	SHEET NO.	TOTAL SHEETS
32.3	90.8	12.1	4	I-90-B(2) 275	6	36

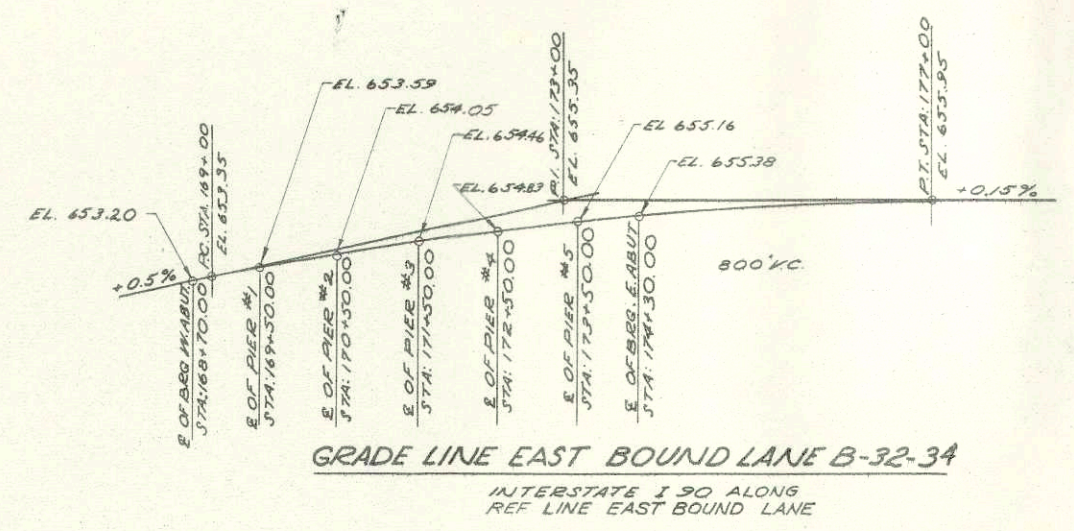


LIST OF DRAWINGS

1. GENERAL PLAN	X26623
2. TOTAL ESTIMATED QUANTITIES	X26624
3. SUPERSTRUCTURE	X26625
4. GIRDER DETAILS	X26626
5. GIRDER DETAILS	X26627
6. POURING, FORMING & BLOCKING DIAGRAMS	X26628
7. LONG SECTION & BEARINGS	X26629
8. EXPANSION JOINTS	X26630
9. FLOOR DRAIN DETAILS	X26631
10. TUBULAR STEEL RAILING-TYPE A	X26632
11. WEST ABUTMENT	X26633
12. PIERS 1, 2, 4 & 5	X26634
13. PIER 3	X26635
14. EAST ABUTMENT	X26636
15. SUBSURFACE EXPLORATION	X26637
16. TUBULAR ALUMINUM RAILING-TYPE A	X26637A

STATE HIGHWAY COMMISSION OF WISCONSIN			
GENERAL PLAN			
CD. LA CROSSE	ENGR. CAMPBELL	STA. 171+	STA. 50.00
SECTION 17	TOWN 16 N	RANGE 7 W	
DESIGN SPEC. AASHO 61	LOADING H20-S16	CONST. SPEC. 1963	
DATE 1-17-63	DESIGN B.M.	DRAWN B.W.	CHKD. E.J.
RECOMMENDED	<i>H. B. Schultz</i>	<i>A. C. Bente</i>	
	ENGINEER OF BRIDGES	BRIDGE ENGINEER	
APPROVED	<i>E. J. Hoffman</i>	<i>J. J. Hoffman</i>	
	MINNESOTA HIGHWAY ENGINEER	DEPUTY CHIEF ENGINEER	
WISCONSIN STRUCTURE	B-32-34	SHEET 1 OF 16	
MINNESOTA STRUCTURE	85 838	X26623	

DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-B(c) 275	7	36



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
BEVEL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE SPECIFIED.
BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
ALL CONCRETE MASONRY SHALL BE GRADE "AA" (FC 1400 PS.1) EXCEPT FOR PIER FOOTING SEALS.
ALL PILING SHALL BE 14" CAST-IN-PLACE CONCRETE PILING DRIVEN TO A MINIMUM BEARING VALUE OF 40 TONS PER PILE. ESTIMATED LENGTH OF ABUTMENT PILES IS 70'-0", MINIMUM PENETRATION OF 50'-0" BELOW STREAMBED. ESTIMATED LENGTH OF PIER PILES IS 60'-0", MINIMUM PENETRATION OF 40'-0" BELOW BOTTOM OF SEAL.
ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" RIVETS OR HIGH TENSILE STRENGTH BOLTS UNLESS NOTED.
THE TOP AND SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIP RAP AS SHOWN ON SHEETS X 26623, X 26633 AND X 26636.
THE SUPERSTRUCTURE SHALL BE TREATED WITH WATER SOLUBLE SILICONE IN ACCORDANCE WITH SECTION 502.3.13 OF THE STANDARD SPECIFICATIONS.

TOTAL ESTIMATED QUANTITIES

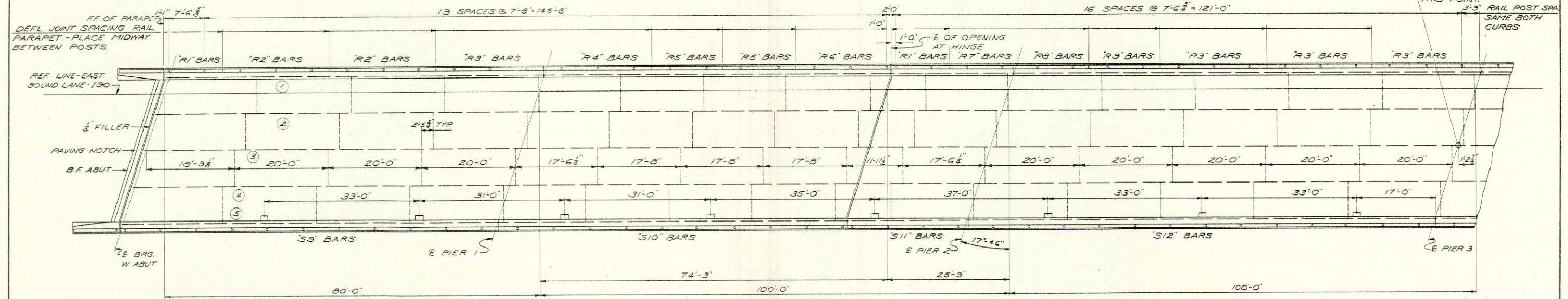
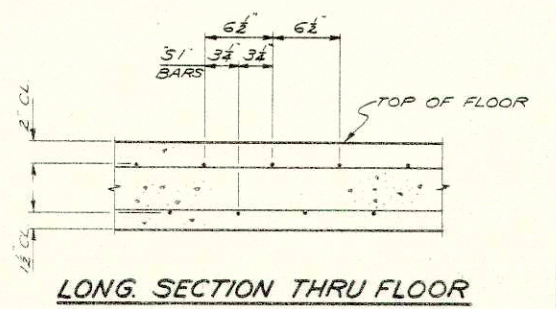
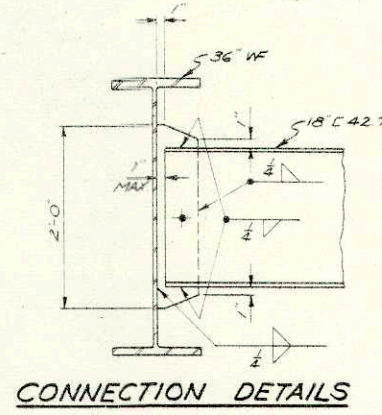
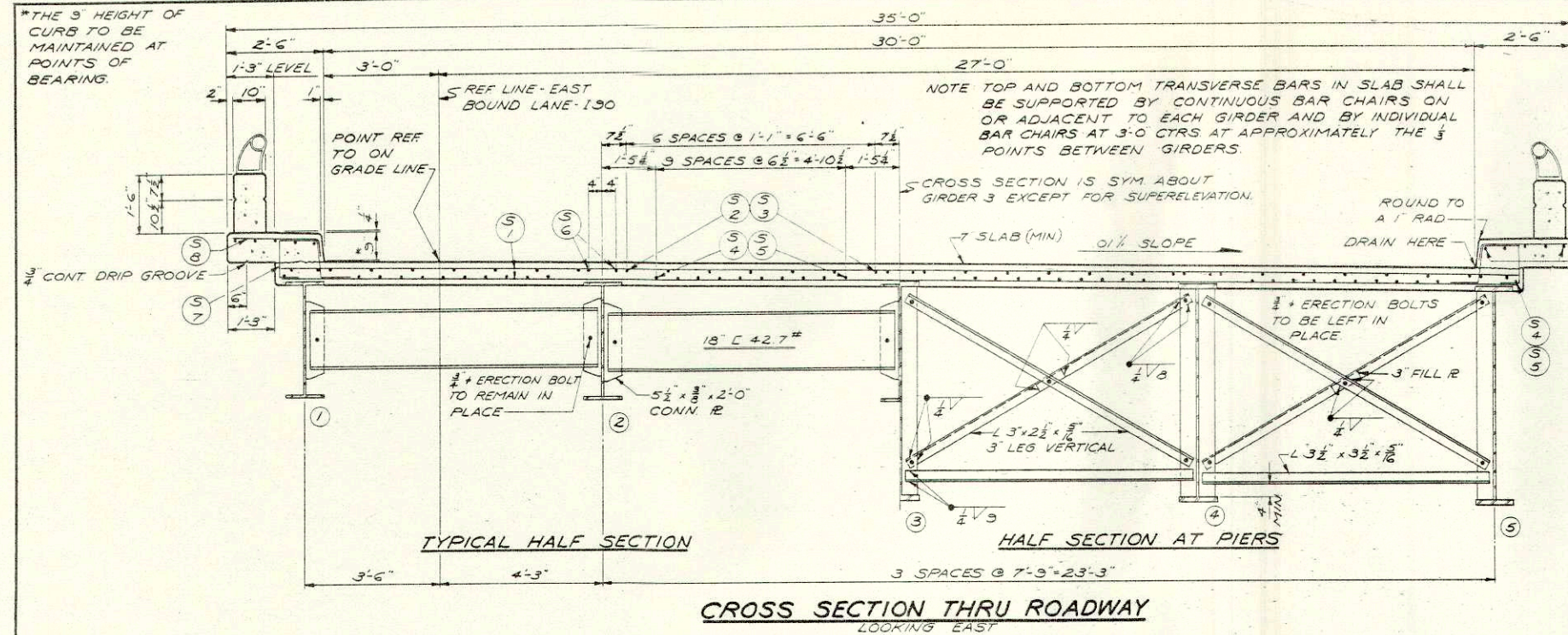
BID ITEMS	UNIT	SUPER.	WABUT	PIER 1	PIER 2	PIER 3	PIER 4	PIER 5	E. ABUT	TOTAL
EXCAVATION FOR STRUCTURES	C.Y.	—	10	160	140	120	130	140	10	710
CONCRETE MASONRY GRADE	C.Y.	5400	560	79.5	79.5	76.7	79.5	79.5	56.1	10468
BAR STEEL REINFORCEMENT	C.Y.	177,350	1690	8,360	8,360	7860	8,360	8,360	1690	222,030
STRUCTURAL CARBON STEEL	LB.	555,100	—	—	—	—	—	—	—	555,100
STRUCTURAL LOW ALLOY STEEL	LB.	16,700	—	—	—	—	—	—	—	16,700
CARBON STEEL FORGINGS	LB.	510	—	—	—	—	—	—	—	510
* LUBRICATED BRONZE PLATES	LB.	445	—	—	—	—	—	—	—	445
BEARING PADS	S.F.	45	—	—	—	—	—	—	—	45
CAST-IN-PLACE CONCRETE PILING, DELIVERED	L.F.	—	840	1,200	1,200	1,200	1,200	1,200	840	7,680
CAST-IN-PLACE CONCRETE PILING, DRIVEN	L.F.	—	840	1,080	1,080	1,080	1,080	1,080	840	7,080
TUBULAR RAILING TYPE "A"	L.F.	1,163	—	—	—	—	—	—	—	1,163
FLOOR DRAINS, TYPE-A	EACH	16	—	—	—	—	—	—	—	16
HEAVY RIPRAP	CY.	—	480	—	—	—	—	—	580	1,060
PILE TEST LOAD	EACH	—	—	—	—	—	—	—	—	1
CONCRETE MASONRY SEAL	C.Y.	—	—	58.0	58.0	51.5	58.0	58.0	—	257.5
NON BID ITEMS										
ALUMINUM OR ZINC PLATE	S.F.	84	—	—	—	—	—	—	—	84
FILLER	SIZE	—	—	—	—	—	—	—	—	1/4

* INCLUDES WEIGHT OF BRONZE WASHERS.

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
TOTAL ESTIMATED QUANTITIES	
DESIGN SPEC. A.A.S.H.O. 61	LOADING MOD. 1962
DATE 11/7/63	DESIGN B.H.M. DRAWN G.T.B. CKD. D.P.
STRUCTURE B-32-34	SHEET 2 OF 16

X26624

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-8(2) 275	8	36

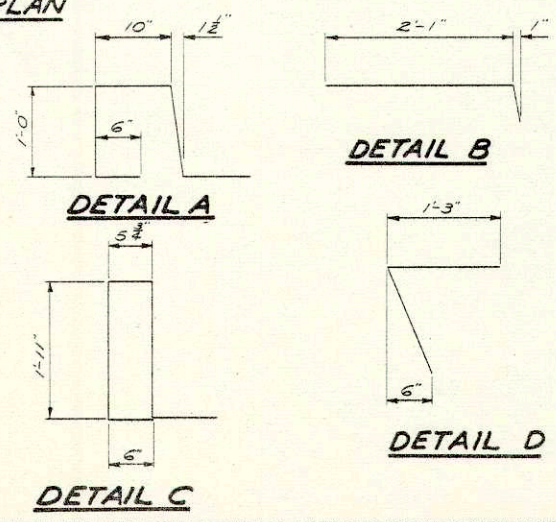


BILL OF BARS 177,350 #S

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT

POUR MARK	NO	SIZE	LENGTH	SPACING	LOCATION	DET
S1	2063	6	33-9	6 1/2	SLAB-TRANS-TOP & BOTTOM	
S2	280	5	32-3	SHOWN	- LONG-TOP-END SECTION	
S3	196	5	37-3		- MIDDLE SECTION	
S4	420	5	32-3		- BOTTOM-END SECTION	
S5	294	5	37-3		- MIDDLE SECTION	
S6	50	5	15-0		- TOP-SYM ABOUT PIERS	
S7	1122	5	4-3	1-0	CURB-TRANS	A
S8	1122	6	2-6	1-0		B
S9	60	6	28-3	6	- LONG-LOCATION SHOWN ON HALF PLAN	
S10	60	6	26-0	6		
S11	20	6	25-3	6		
S12	60	6	34-3	6		
S13	1122	5	5-6	1-0	& RAIL PARAPET	C
S14	8	4	6-9	SHOWN	DIAPHRAGM @ ABUT	
S15	40	5	2-9	1-6		D

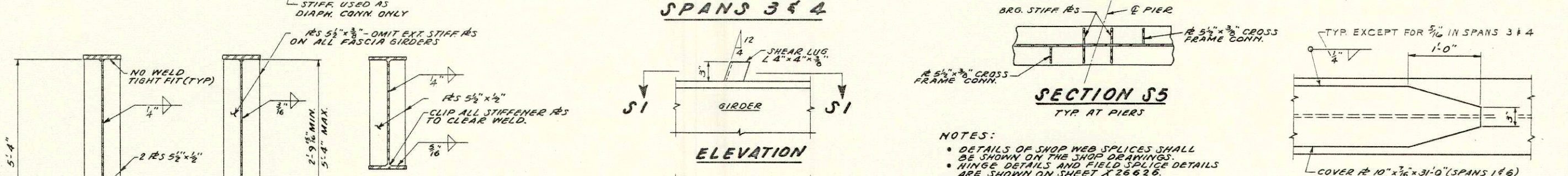
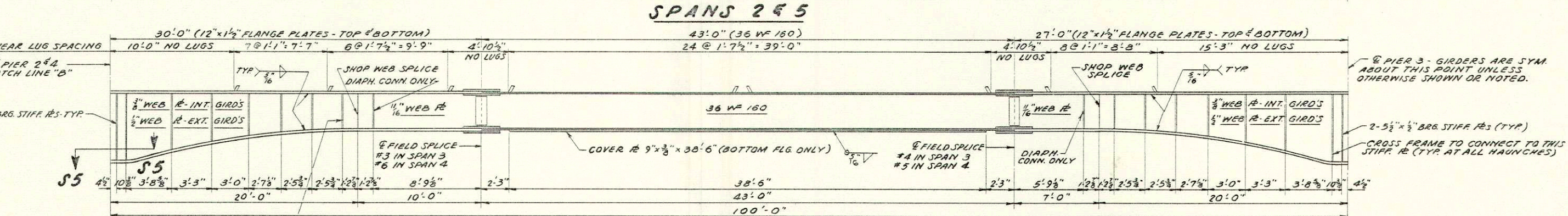
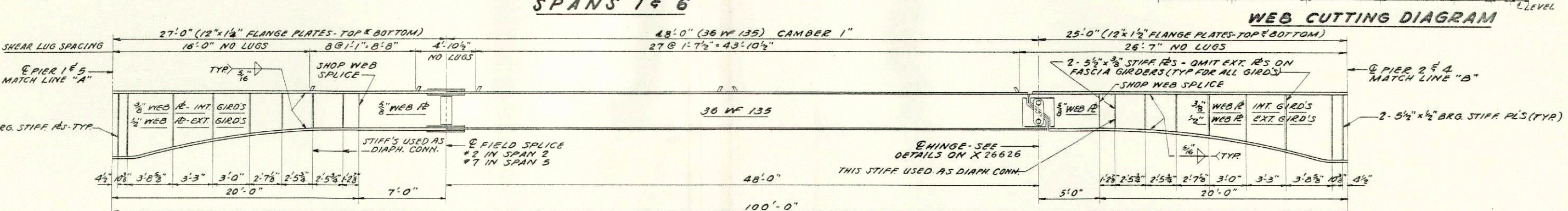
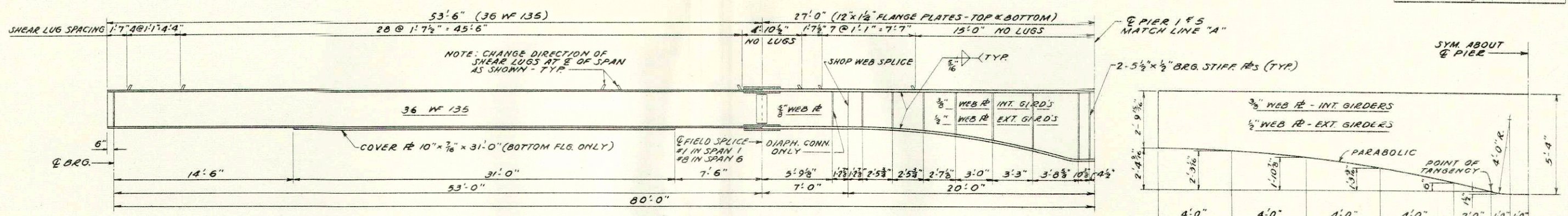
POUR MARK	NO	SIZE	LENGTH	SPACING	LOCATION
R1	32	5	12-0	SHOWN	RAILING PARAPET
R2	32	5	22-9		
R3	64	5	22-3		
R4	16	5	23-0		
R5	32	5	15-0		
R6	16	5	13-9		
R7	16	5	13-0		
R8	16	5	16-6		
R9	16	5	14-9		



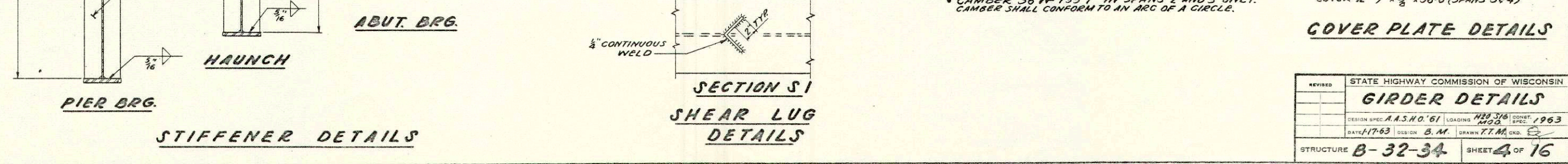
NOTE: FLOOR DRAIN SPACING FOR SPANS 4, 5 & 6 IS THE SAME AS SHOWN ABOVE SOUTH CURB ONLY. DRAIN SPACING MAY BE ALTERED TO MISS STIFFENER R'S IF NECESSARY.

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
SUPERSTRUCTURE	
DESIGN SPEC. A.A.S.H.O. 61	LOADING #20-5/16 CONST. 1963
DATE 1-17-63	DESIGN BHM DRAWN BW CKB
STRUCTURE B-32-34	SHEET 3 OF 16

PROJECT	SHEET NO.	TOTAL SHEETS
I-30-8(2) 275	9	36

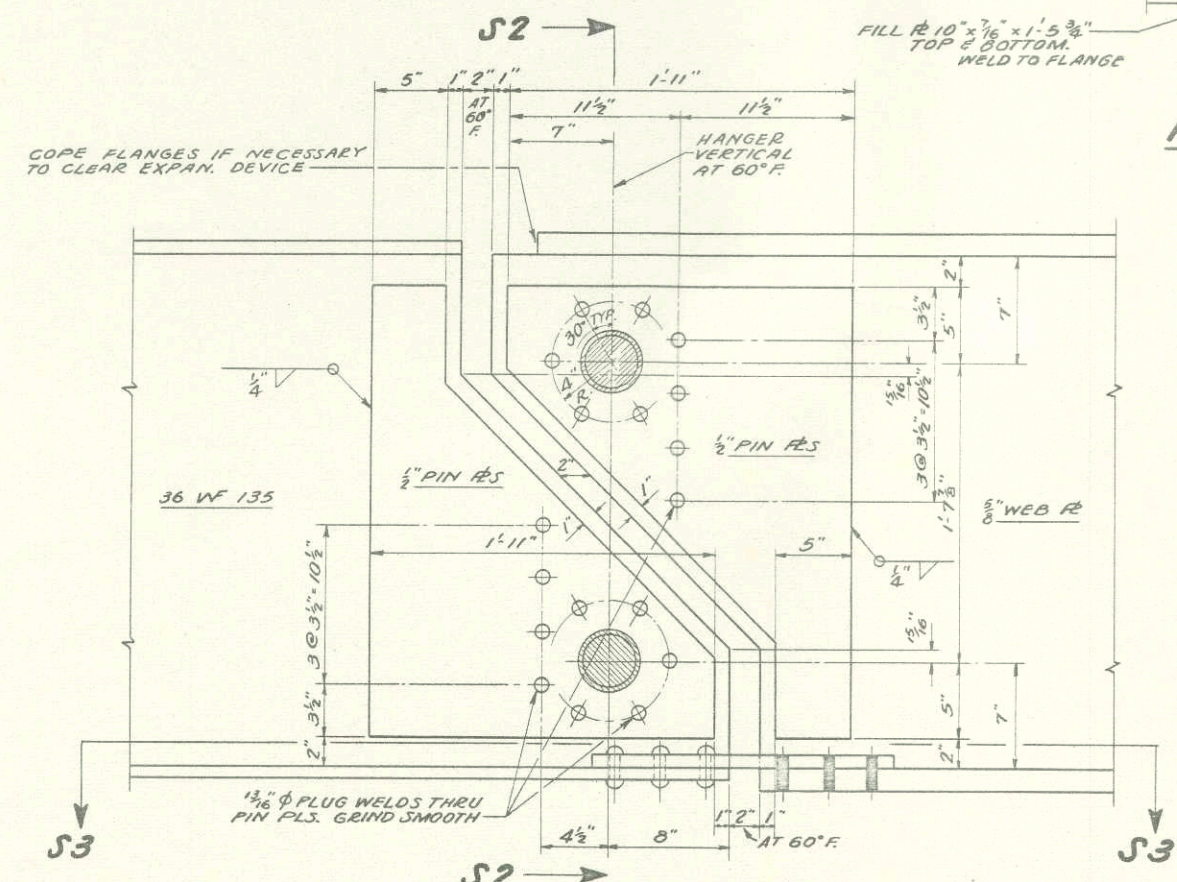
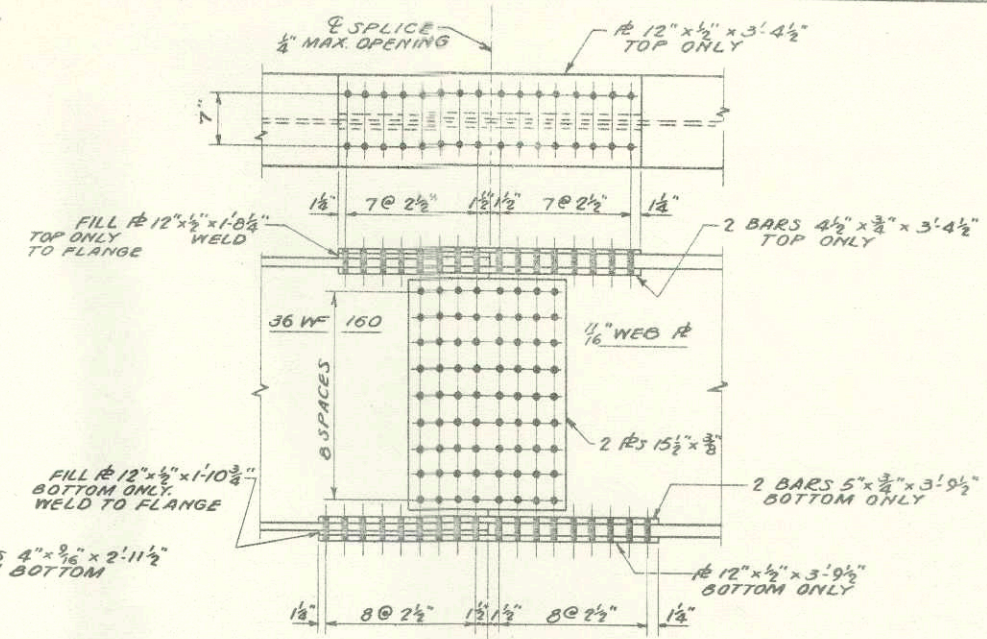
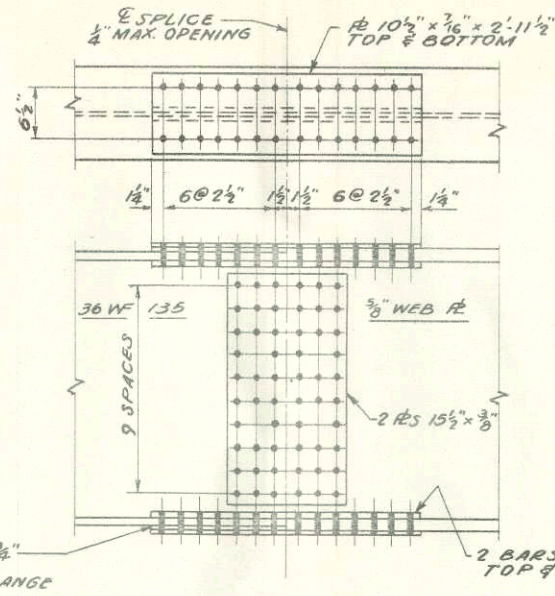
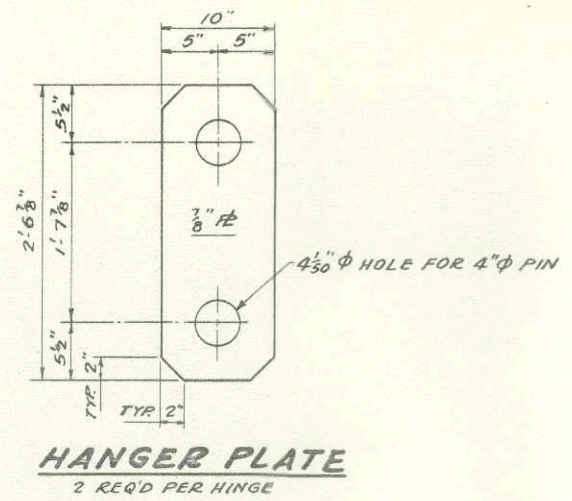


- NOTES:**
- DETAILS OF SHOP WEB SPLICES SHALL BE SHOWN ON THE SHOP DRAWINGS.
 - HINGE DETAILS AND FIELD SPLICE DETAILS ARE SHOWN ON SHEET X 26626.
 - CAMBER 36 W 135 1" IN SPANS 2 AND 5 ONLY. CAMBER SHALL CONFORM TO AN ARC OF A CIRCLE.



REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN
	GIRDER DETAILS
	DESIGN SPEC. A.A.S.H.O. '61 LOADING H30 316 CONECT. 1963
	DATE: 11-7-63 DESIGN: B.M. DRAWN: T.T.M. CRD.
STRUCTURE	B-32-34 SHEET 4 OF 16

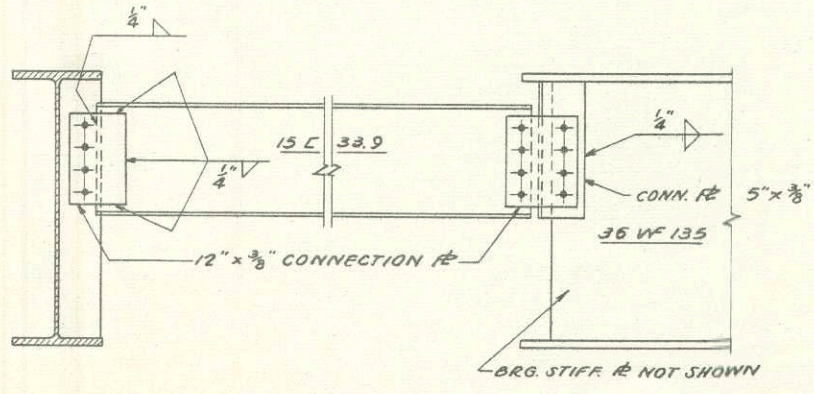
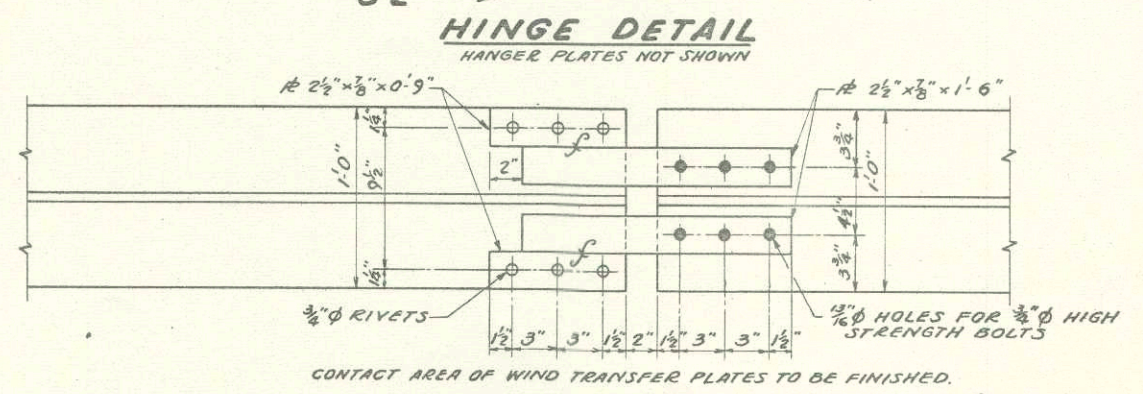
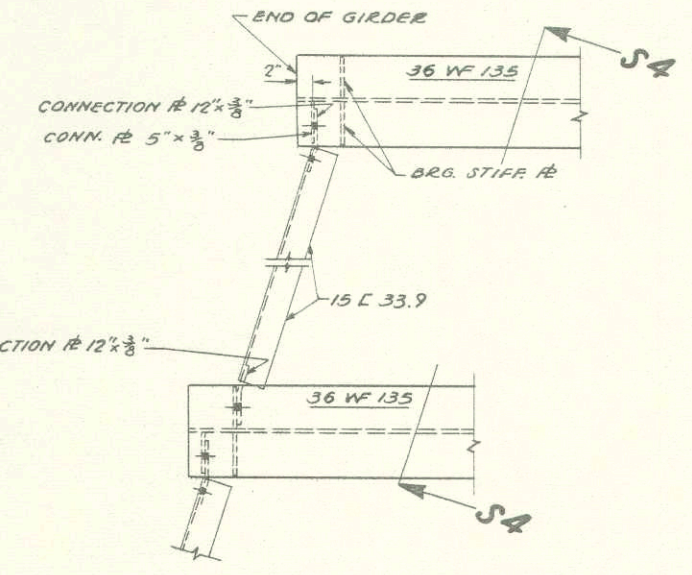
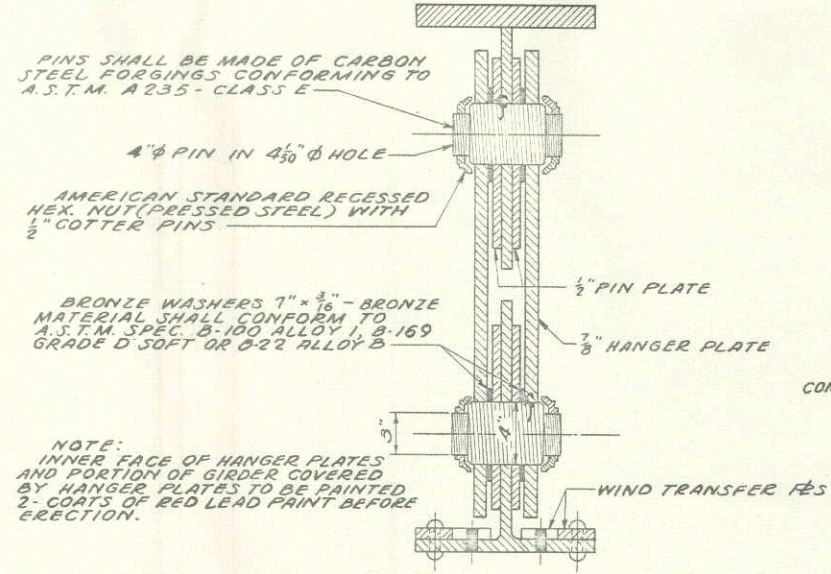
PROJECT	SHEET NO.	TOTAL SHEETS
I-90-B(2)	10	36
275		



FIELD SPLICE 1, 2, 7 & 8

FIELD SPLICE 3, 4, 5 & 6

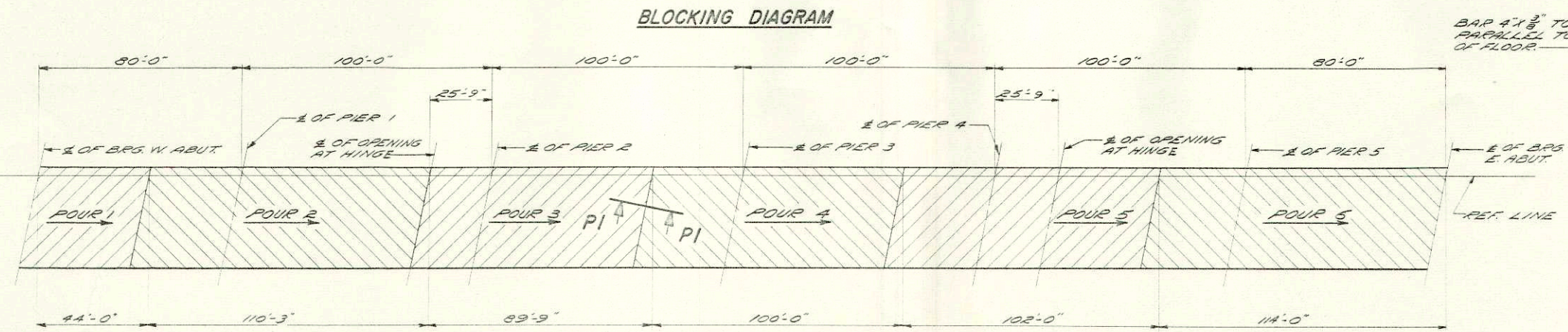
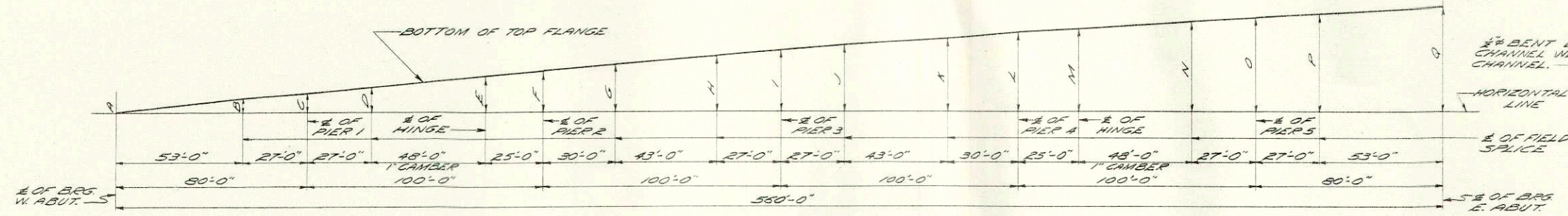
NOTE: ALL FIELD SPLICE CONNECTIONS SHALL BE MADE WITH 3/4" HIGH TENSILE STRENGTH BOLTS.



REVISOR	STATE HIGHWAY COMMISSION OF WISCONSIN
	GIRDER DETAILS
	DESIGN SPEC. A.A.S.H.O. '61 LOADING H20S16 CONST. 1963
	DATE 1-17-63 DESIGN D. M. DRAWN T.T.M. CKD. E.
STRUCTURE	B-32-34 SHEET 5 OF 16

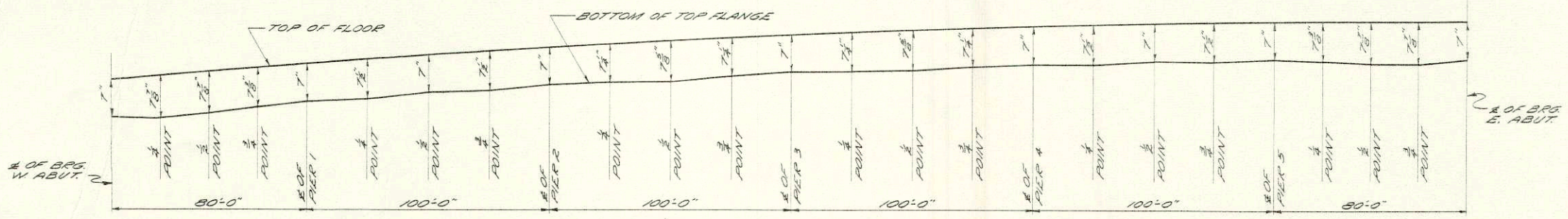
PROJECT	SHEET NO.	TOTAL SHEETS
I-90-8(2) 275	11	36

LOCATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
GIRDER 1	0	0'-3 3/8"	0'-4 1/8"	0'-5 1/8"	0'-6 1/8"	0'-10 1/8"	0'-11 1/8"	1'-1 1/8"	1'-3 1/8"	1'-4 1/8"	1'-5 1/8"	1'-7 1/8"	1'-8 1/8"	1'-10 1/8"	1'-11 1/8"	2'-0 1/8"	2'-2 1/8"
GIRDER 2	0	0'-3 3/8"	0'-4 1/8"	0'-5 1/8"	0'-6 1/8"	0'-10 1/8"	0'-11 1/8"	1'-1 1/8"	1'-3 1/8"	1'-4 1/8"	1'-5 1/8"	1'-7 1/8"	1'-8 1/8"	1'-10 1/8"	1'-11 1/8"	2'-0 1/8"	2'-2 1/8"
GIRDER 3	0	0'-3 3/8"	0'-4 1/8"	0'-5 1/8"	0'-6 1/8"	0'-10 1/8"	0'-11 1/8"	1'-1 1/8"	1'-3 1/8"	1'-4 1/8"	1'-5 1/8"	1'-7 1/8"	1'-8 1/8"	1'-10 1/8"	1'-11 1/8"	2'-0 1/8"	2'-2 1/8"
GIRDER 4	0	0'-3 3/8"	0'-4 1/8"	0'-5 1/8"	0'-6 1/8"	0'-10 1/8"	0'-11 1/8"	1'-1 1/8"	1'-3 1/8"	1'-4 1/8"	1'-5 1/8"	1'-7 1/8"	1'-8 1/8"	1'-10 1/8"	1'-11 1/8"	2'-0 1/8"	2'-2 1/8"
GIRDER 5	0	0'-3 3/8"	0'-4 1/8"	0'-5 1/8"	0'-6 1/8"	0'-10 1/8"	0'-11 1/8"	1'-2"	1'-3 1/4"	1'-4 1/8"	1'-5 1/8"	1'-7 1/8"	1'-8 1/8"	1'-10 1/8"	1'-11 1/8"	2'-0 1/8"	2'-2 1/8"

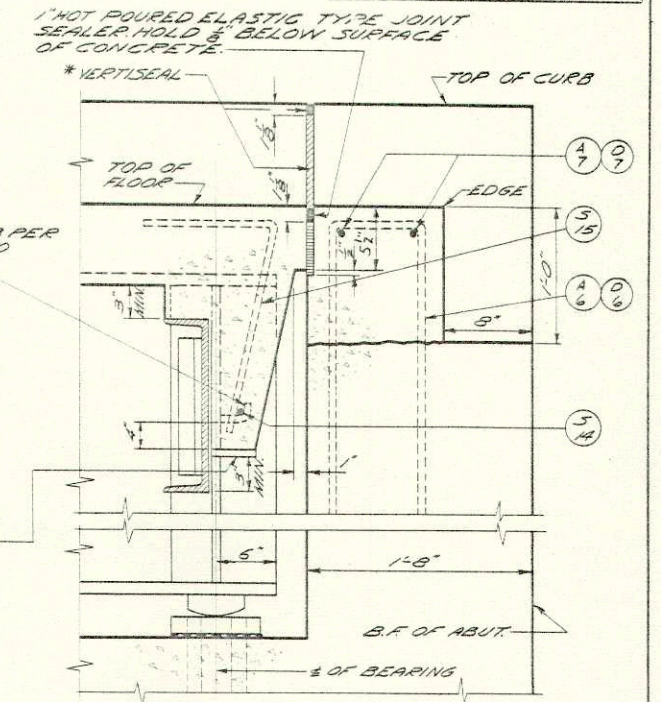
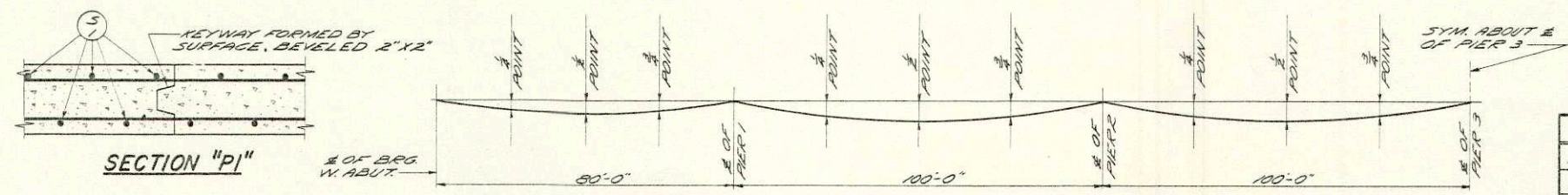


NOTE: TWO OR MORE POURS MAY BE COMBINED AND TRANS. CONST. JOINTS OMITTED IF THE ENTIRE POUR IS MADE IN A CONTINUOUS 10 HR PERIOD.

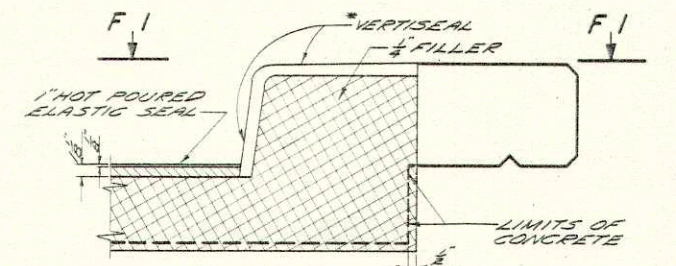
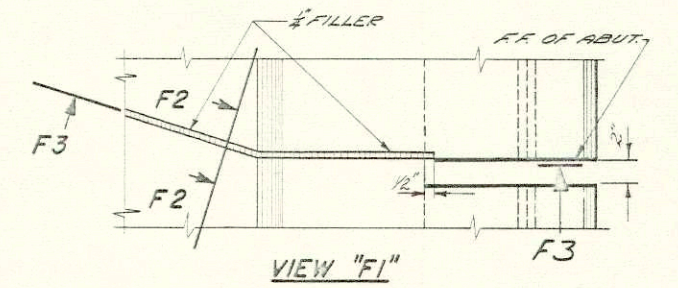
IF REQUIRED THE POURS MAY BE REVERSED.



SLAB THICKNESS FIGURES SHOWN ARE THEORETICAL AND ARE SUBJECT TO CORRECTION TO MEET VARIABLE FIELD CONDITIONS.



* SEAL CURB JOINT WITH BLACK GOLD APPLIED JOINT SEALER VERTISEAL AS MANUFACTURED BY THE SIEGELSEID PRODUCTS CORP OF CHICAGO, ILL. OR AN APPROVED EQUAL.

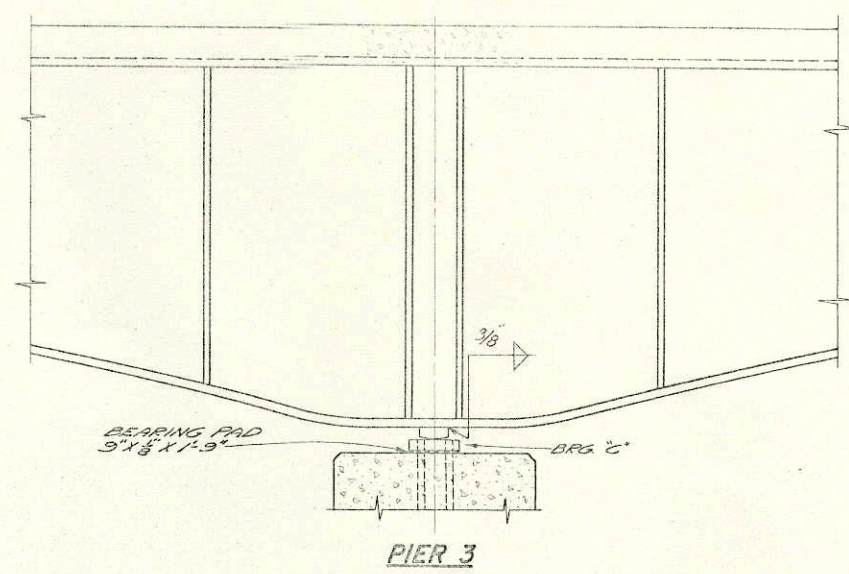
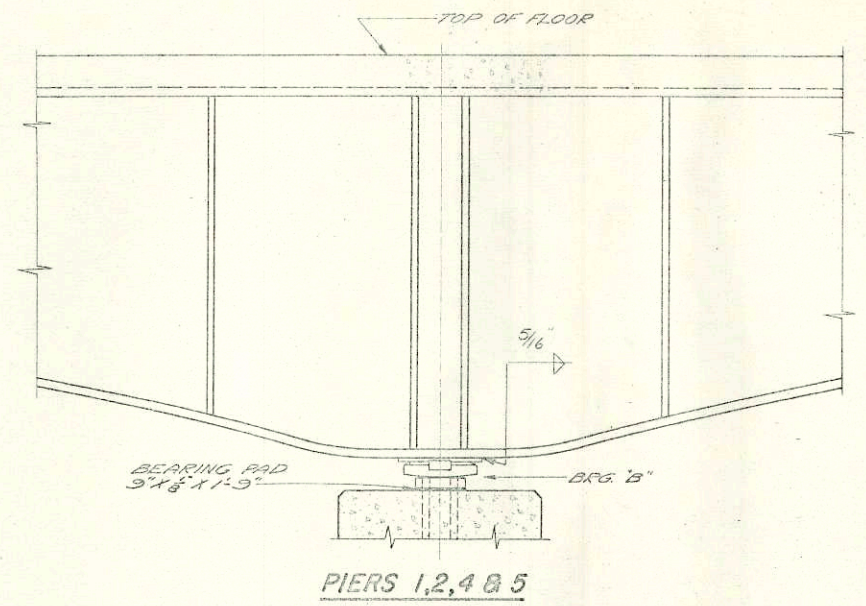
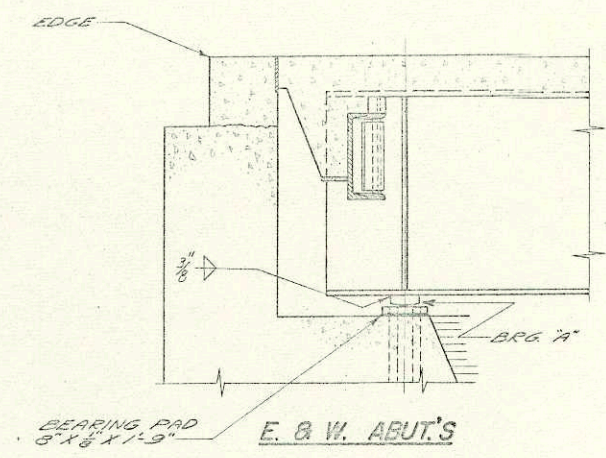


DEAD LOAD DEFLECTIONS

	SPAN 1	SPAN 2	SPAN 3
POINT	1/8"	1/8"	1/8"
TOTAL D.L.	1/8"	1/8"	1/8"
CONC. ONLY	1/8"	1/8"	1/8"

REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN
POURING, FORMING & BLOCKING DIAGRAMS	
DESIGN SPEC. A.A.S.H.O. 61 / LOADING	420-55
DATE: 7-53	DESIGN: D.M. DRAWN: P.R.V. CKD: E.L.
STRUCTURE B - 32 - 34	SHEET 6 OF 16

D.P. & DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	E-90-B(2) 275	12	36



LONGITUDINAL SECTION

GENERAL NOTES

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH & FREE FROM WARP & ALL EDGES SMOOTH, STRAIGHT & VERTICAL.

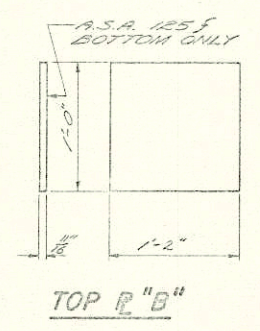
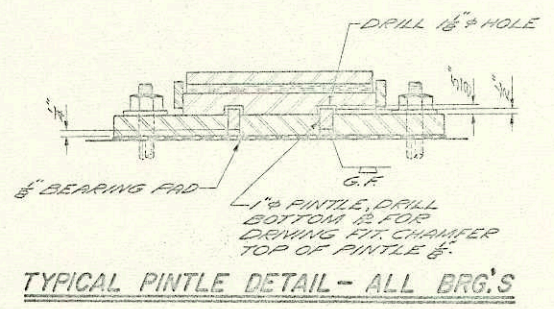
ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL SURFACES MARKED 'T' SHALL BE MACHINE FINISHED.

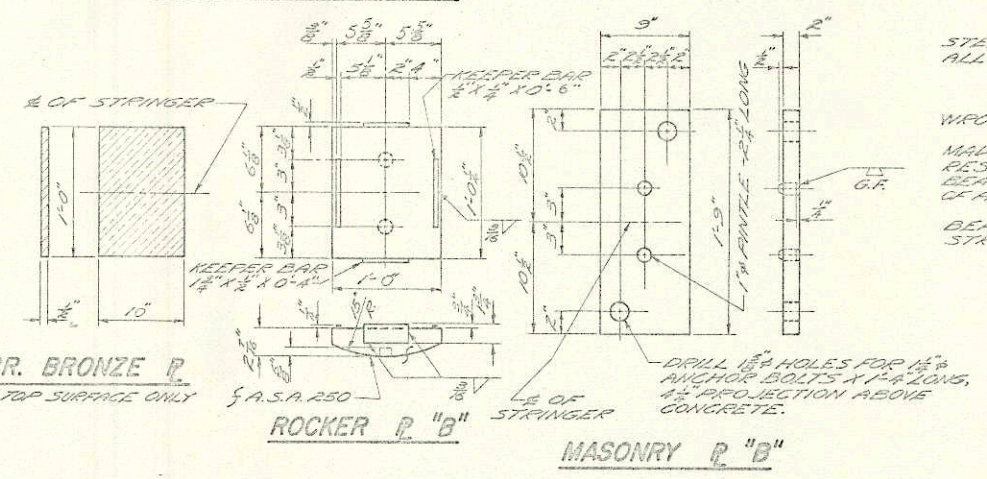
ANCHOR BOLTS SHALL BE THREADED 3" PROVIDE ONE 1/2" STANDARD WROUGHT WASHER & ONE HEX NUT PER BOLT.

ALL MATERIAL EXCEPT ANCHOR BOLTS, NUTS & WASHERS SHALL BE MADE OF COR-TEN, MAYARI P OR OTHER STEEL OF EQUAL COMPOSITIVE RESISTANCE. THE KEEPER BARS & PANTLES MAY BE MADE OF COPPER BEARING STEEL OR STEEL CONFORMING TO A.S.T.M. A 771. THE TOP 1/2" OF ANCHOR BOLTS, WASHERS & NUTS SHALL BE GALVANIZED.

ALL MATERIAL IN BEARINGS, EXCEPT BRONZE PLATES & BEARING PADS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR STRUCTURAL LOW ALLOY STEEL.



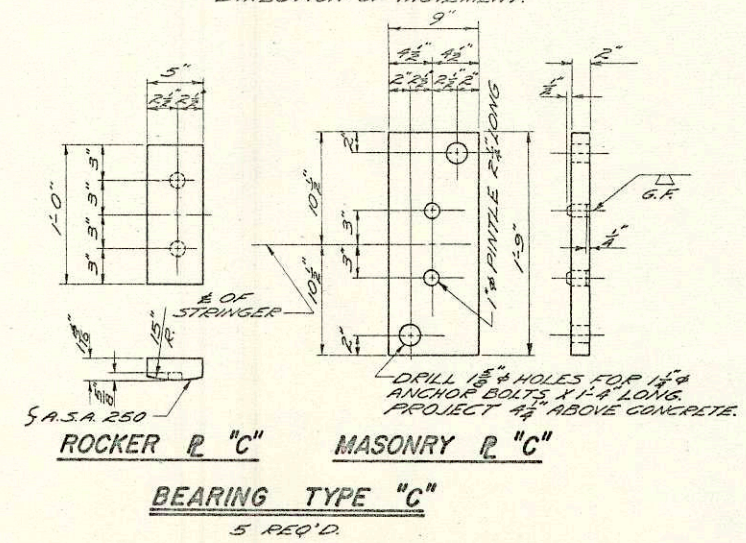
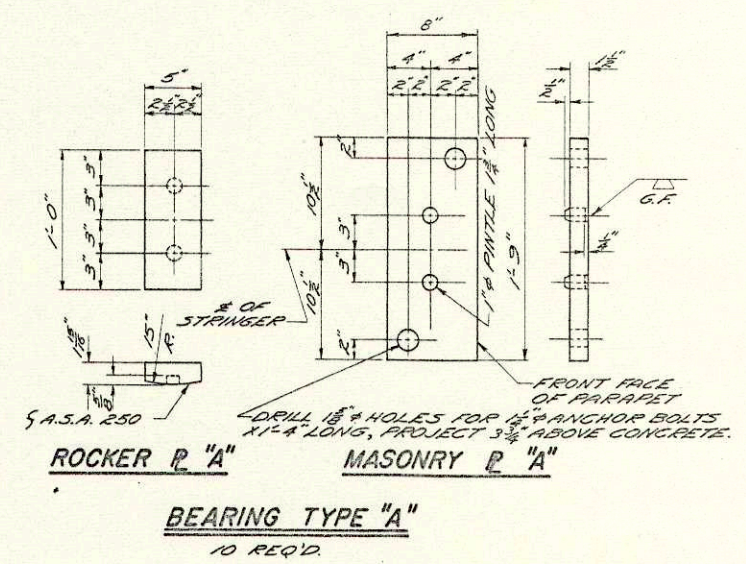
LUBR. BRONZE P
LUBR TOP SURFACE ONLY



BEARING TYPE "B"

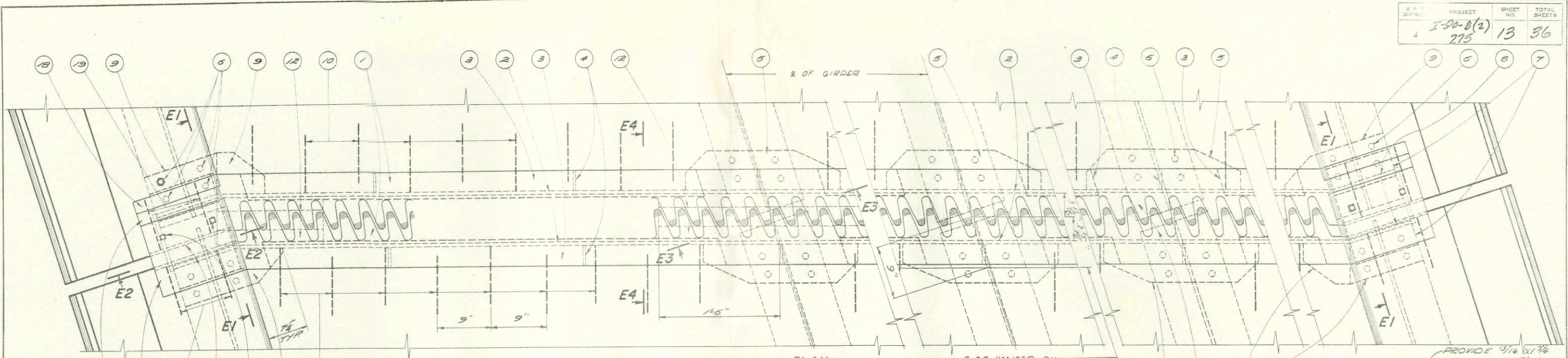
20 REQ'D.

NOTE: TOP PLATE OF EXPANSION BEARING TO BE FINISHED IN THE DIRECTION OF MOVEMENT.

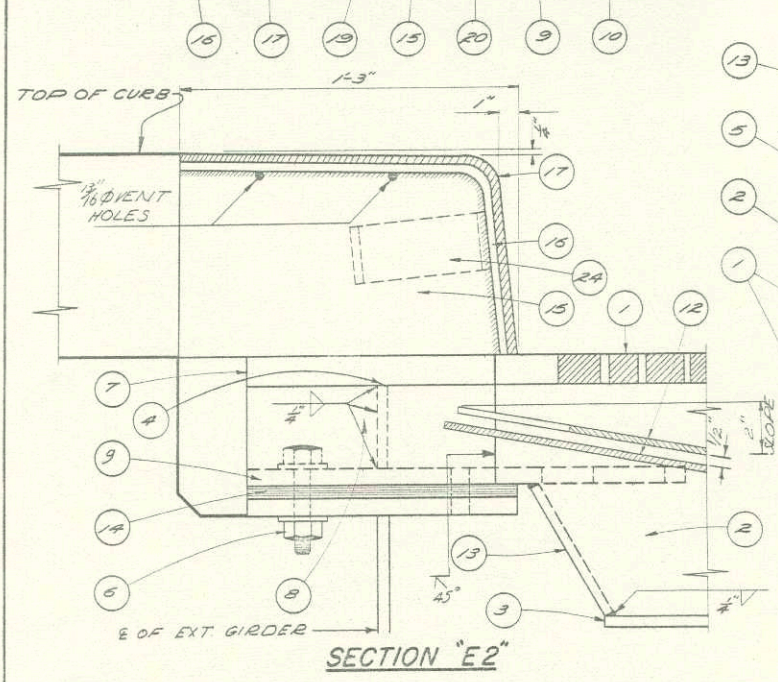


REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN		
	LONG. SECTION & BEARINGS		
	IN. ON SPEC. A.A.S.H.O. 61	LOADING MOD.	CONSTR. 1953
DATE 1/1/63	DESIGN J.M.	DRAWN P.P.V.	CHK. D.B.
STRUCTURE B-32-34		SHEET 7 OF 16	

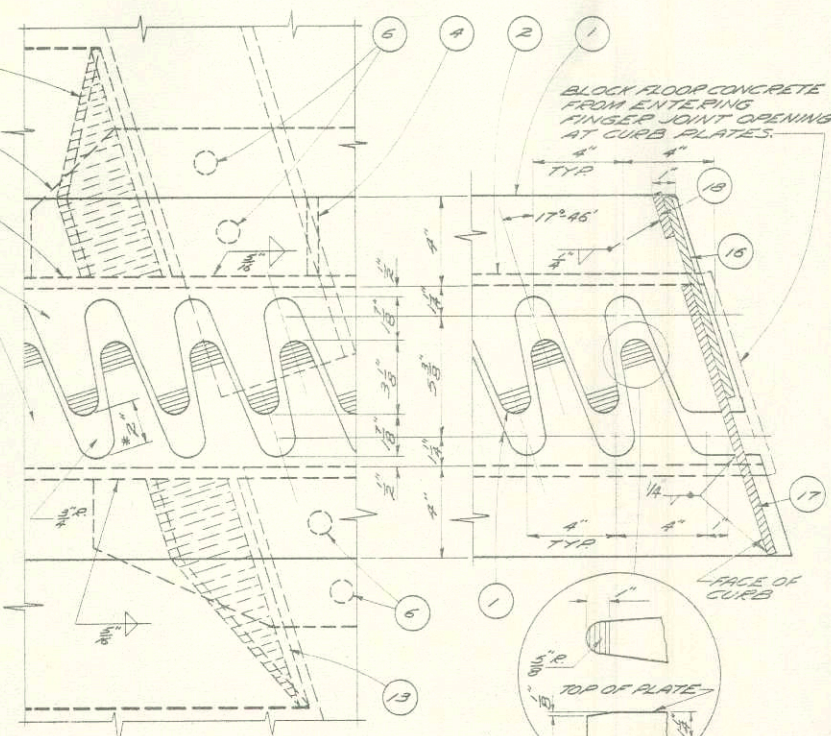
S.P. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-90-8(2) 275	13	36



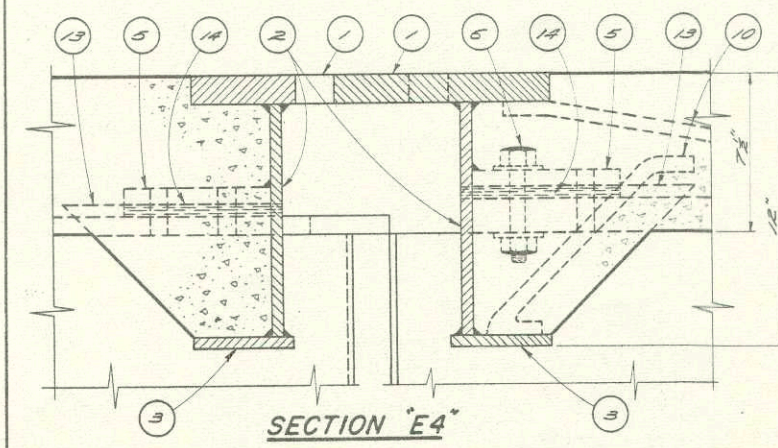
PLAN



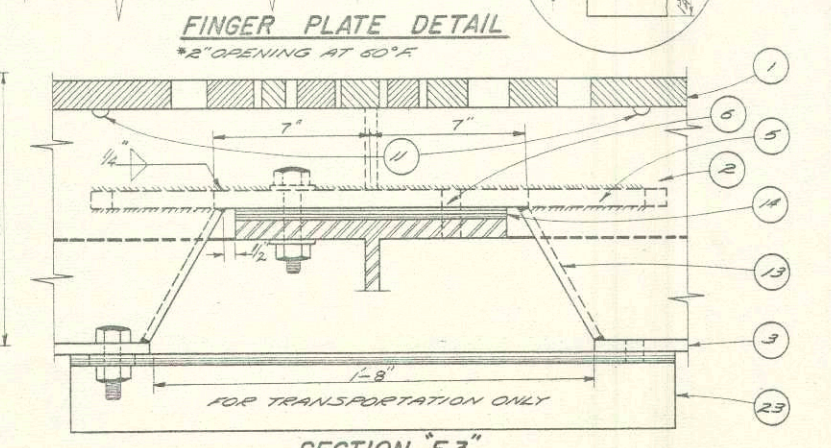
SECTION E2



FINGER PLATE DETAIL



SECTION E4



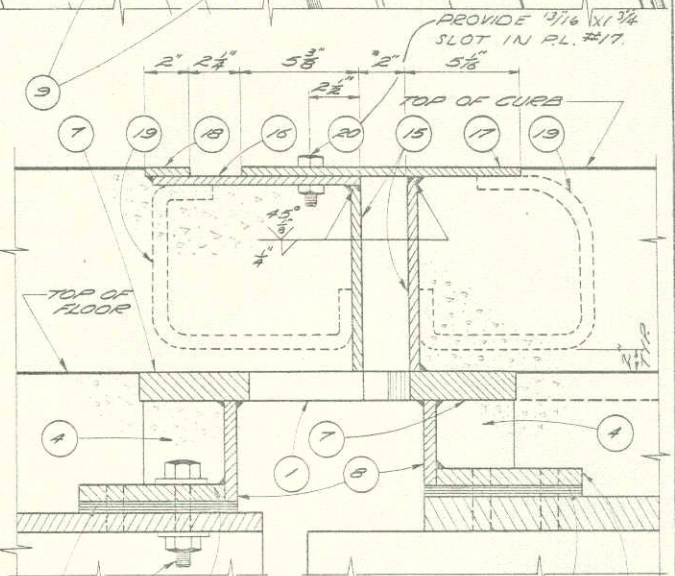
SECTION E3

LEGEND

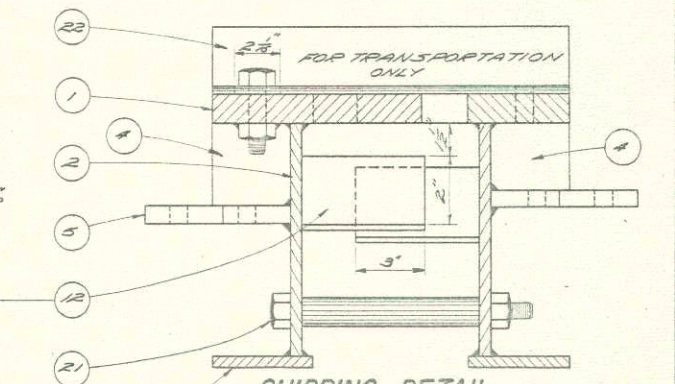
- ** 1) FINGER PLATE 14" X 1 1/2" - 5/8" FILLET WELD NEAR FAR SIDES TO FLANGE PLATE (#3) & FINGER PLATE (#1)
- ** 2) WEB PLATE 10 1/2" X 1/2" - 5/8" FILLET WELD NEAR FAR SIDES TO FLANGE PLATE (#3) & FINGER PLATE (#1)
- ** 3) FLANGE PLATE 4 1/2" X 1/2" - 5/8" FILLET WELD NEAR FAR SIDES TO FLANGE PLATE (#3) & FINGER PLATE (#1)
- ** 4) DIAPHRAGM PLATE 3 1/2" X 1/2" - 5/8" FILLET WELD NEAR FAR SIDES TO FLANGE PLATE (#3) & FINGER PLATE (#1)
- ** 5) SHAPED PLATE 2 1/2" X 1/2" - 5/8" FILLET WELD TO WEB PLATE (#2) AS SHOWN
- ** 6) 1/2" BOLTS FOR 1/2" HOLES IN PLATE (#8) & SHIM PLATES (#14)
- ** 7) PLATE 1 1/2" X 4 1/2" - DOUBLE VEE WELD TO FINGER PLATE (#1)
- ** 8) 1/2" WEB PLATE (#7) - FILLET WELD NEAR FAR SIDES TO PLATE (#7) AS SHOWN
- ** 9) 1/2" SHAPED PLATE - CUT TO FIT - 5/8" FILLET WELD TO WEB PLATES (#2) & (#8) AS SHOWN
- ** 10) ANCHOR BAR 1/2" X 1/2" EXTENDED INTO FLOOR 1'-0" @ 2'-0" ALTERNATE CENTERS
- ** 11) 1/2" VENT HOLES @ 2'-0" CENTERS
- ** 12) MUD PLATES 5 1/2" X 1/2" - 5/8" FILLET WELD TO NEAR & FAR SIDES OF WEB PLATE (#2)
- ** 13) SHAPED PLATE
- ** 14) LAMINATED SHIMS (1" MIN)
- ** 15) PLATE 2 1/2" X 1/2" BENT DOWN FLUSH WITH FACE OF CURB AS SHOWN WELD TO PLATE (#16) & FIELD WELD TO FINGER PLATE (#1)
- ** 16) 1/2" BENT BARS 1'-5" LONG WELD TO PLATES (#2) & (#17)
- ** 17) PLATE 12 1/2" X 1/2" BENT DOWN FLUSH WITH FACE OF CURB AS SHOWN, FIELD WELD TO FINGER PLATE (#1)
- ** 18) PLATE 2 1/2" X 1/2" BENT DOWN FLUSH WITH FACE OF CURB AS SHOWN, WELD TO PLATE (#16) & FIELD WELD TO FINGER PLATE (#1)
- ** 19) 1/2" BENT BARS 1'-5" LONG WELD TO PLATES (#2) & (#17)
- ** 20) TEMPORARY BOLTS 1/2" REMOVE AFTER CONCRETE IS IN PLACE AND FILL HOLES WITH NOT POURED ELASTIC TYPE JOINT SEALER
- ** 21) BLOCK & BOLT FOR SHIPMENT WITH PIPE SLEEVE & 1/2" BOLT PROVIDE 2 HOLES IN 1/2" WEB @ 2'-5" CENTERS
- ** 22) 1/2" X 1/2" X 1/2" - SLOT ONE END OFF 1/2" X 1/2" AS SHOWN, PARALLEL TO SHEW, TWO 1/2" BOLTS REQUIRED PER L. TACK WELD NUT TO UNDER-SIDE OF FINGER PLATE. USE 6 PER JOINT
- ** 23) 1/2" X 1/2" X 1/2" - SLOT ONE END OFF 1/2" X 1/2" AS SHOWN, PARALLEL TO SHEW, TWO 1/2" BOLTS REQUIRED PER L. PROVIDE 1/2" HOLES IN FLG. PLATE (#3). SIX 1/2" REQUIRED PER JOINT
- ** 24) ANCHOR BAR 1/2" X 1/2" X 1'-0" WELD TO PLATES (#16) & (#17)

PLACE SYM. ABOUT E OF INTER. GIRDS - SLOPE BOTHWAYS

NOTE: ITEMS MARKED ** SHALL BE MADE OF CORTEN, MAYARI P OR OTHER STEEL OF EQUAL COMPOSITIVE RESISTANCE.
ALL MATERIAL IN EXPANSION JOINT SHALL BE PAID FOR AS STRUCTURAL LOW ALLOY STEEL EXPANSION JOINT SHALL BE BUILT TO CONFORM TO PDWY. CROWN AND GRADE.



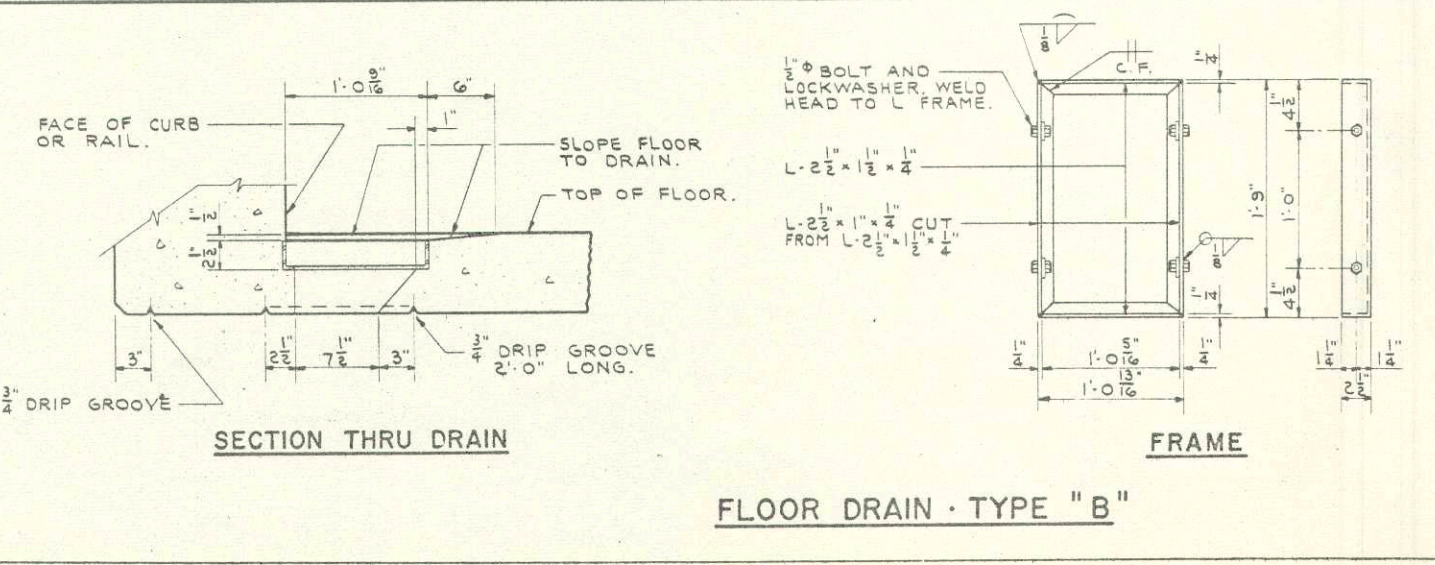
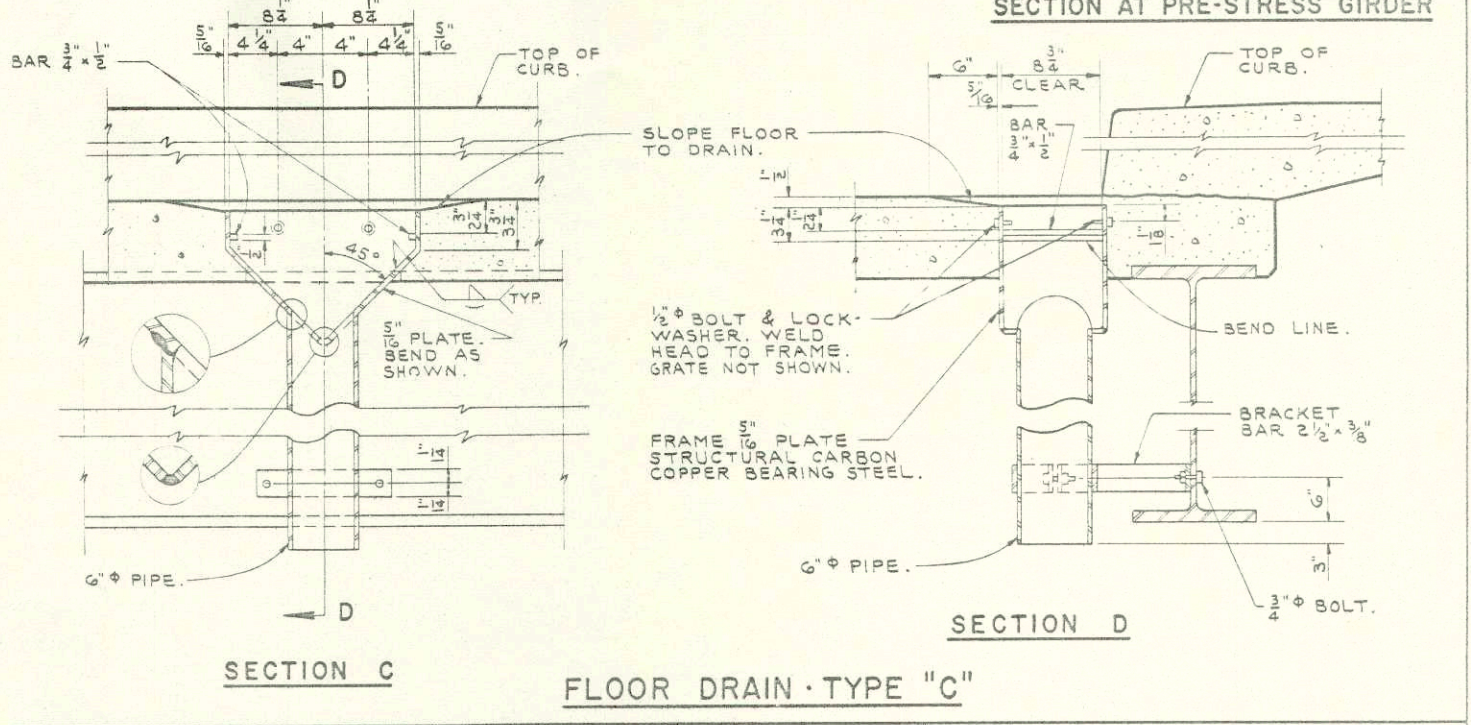
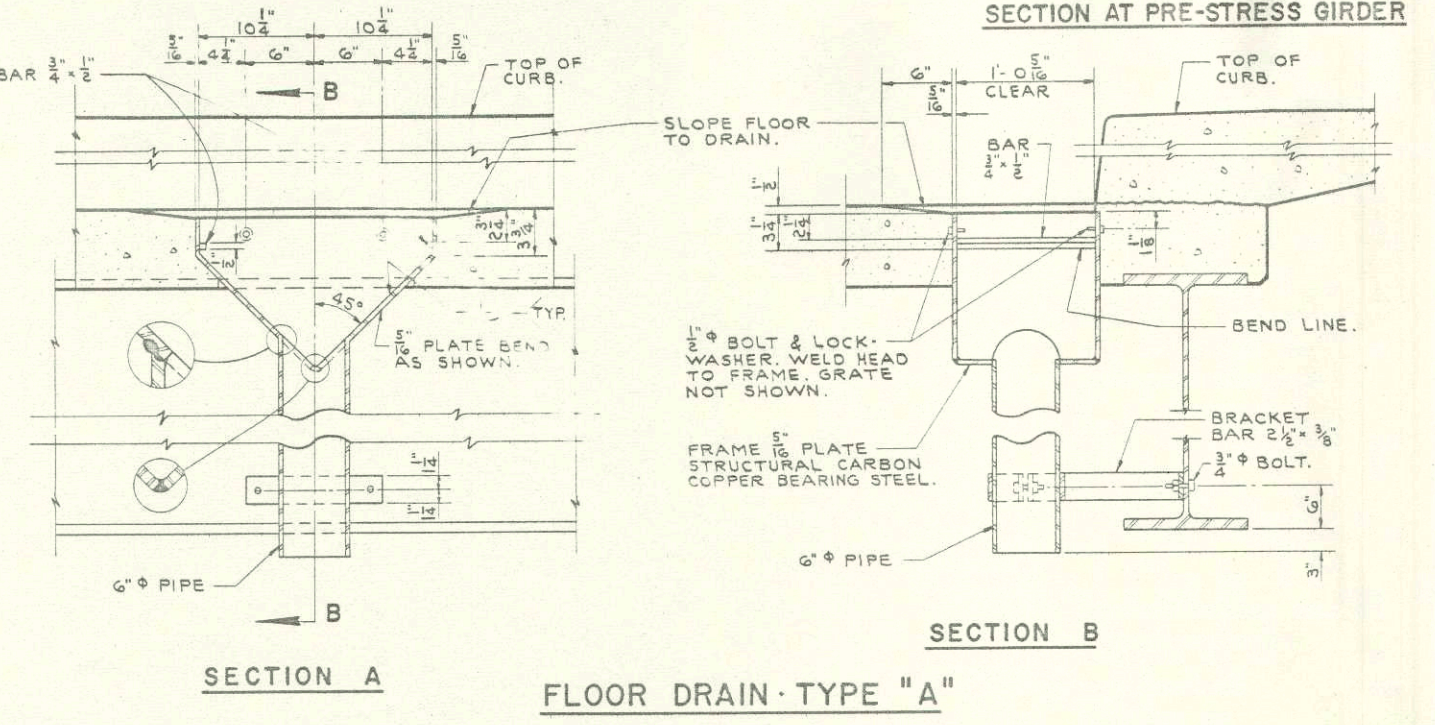
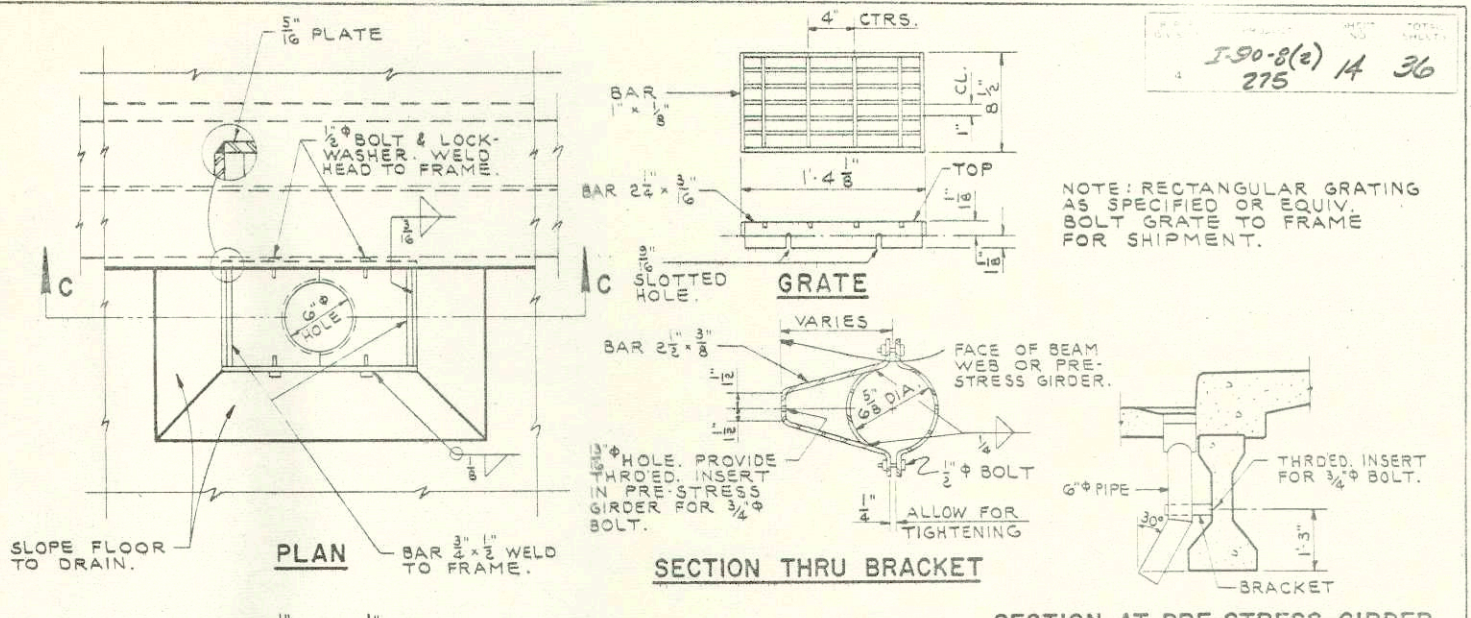
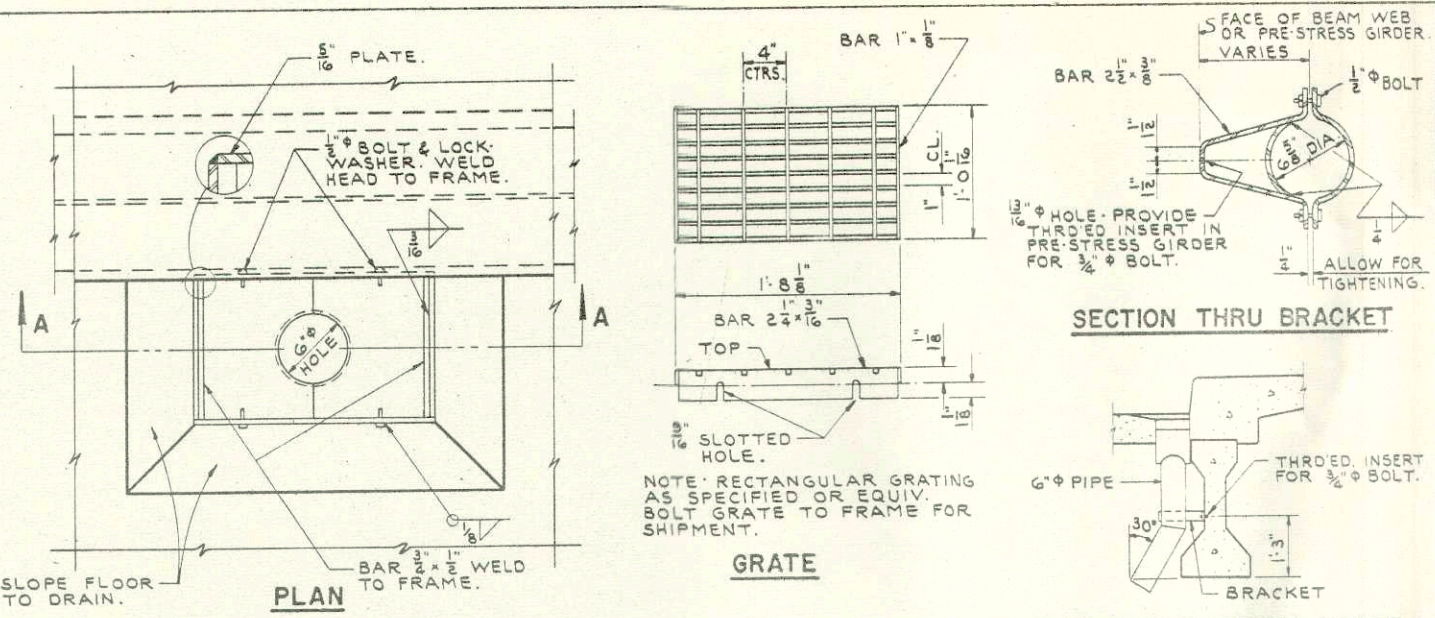
SECTION E1



SHIPPING DETAIL ALSO SEE SECTION E3

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	EXPANSION JOINTS
DESIGN SPEC. A.A.S.H.O. 61	LOADING MOD. SPEC. 1963
DATE: 11-15-61	DESIGN: JM
STRUCTURE B-32-34	SHEET 8 OF 16

I-90-8(e) 14 36
275

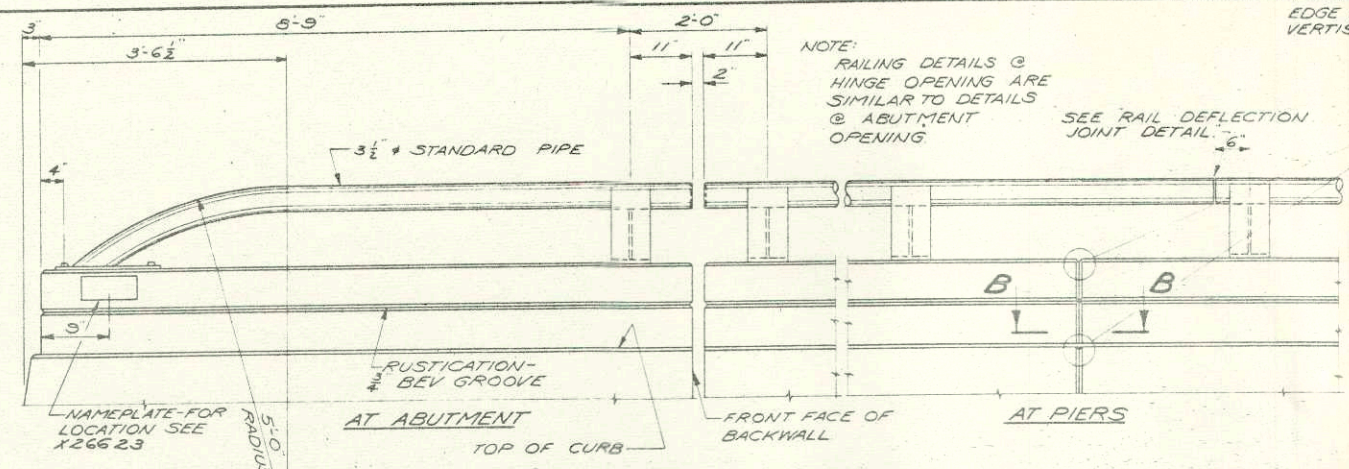


NOTE: WELDS ON COPPER BEARING STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES.

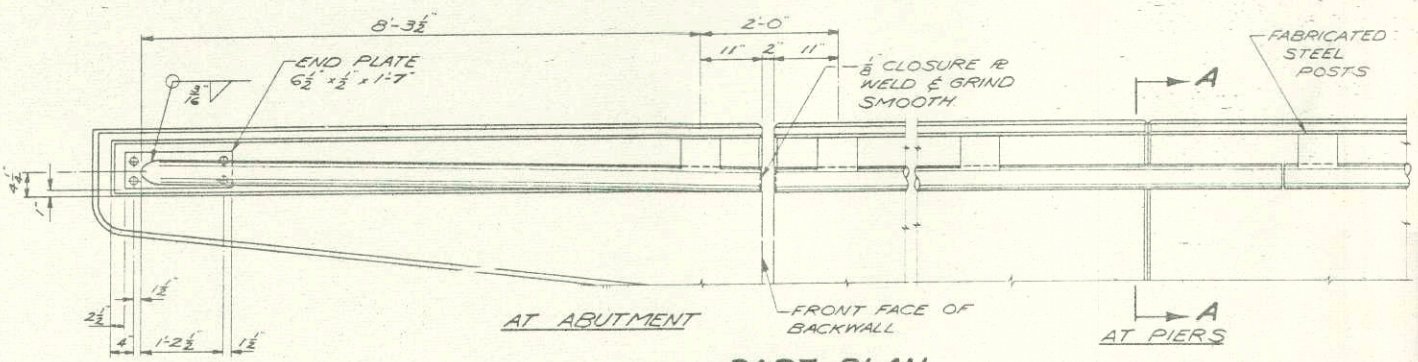
FLOOR DRAIN - TYPE	A
FLOOR DRAINS REQ'D.	16

STATE HIGHWAY COMMISSION OF WISCONSIN	
FLOOR DRAIN DETAILS	
A.A.S.H.O. 1961	1963
DATE 11/763	BY BM
STRUCTURE B-32-34	SHEET 9 OF 16

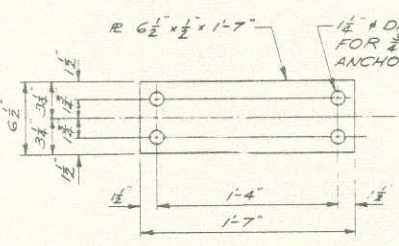
26631



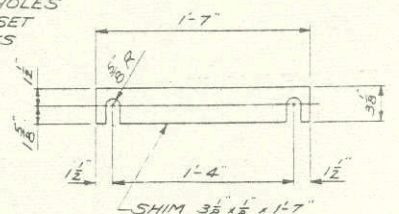
PART ELEVATION



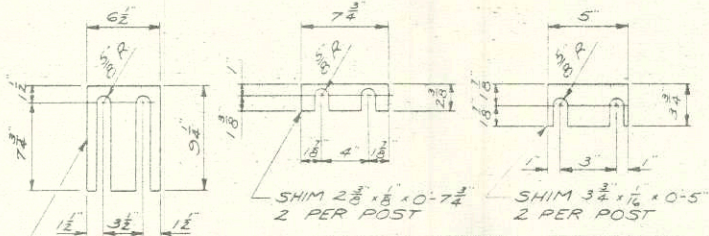
PART PLAN



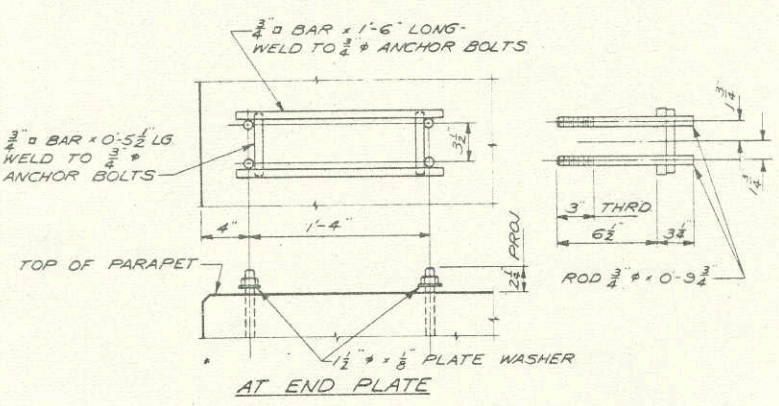
END PLATE



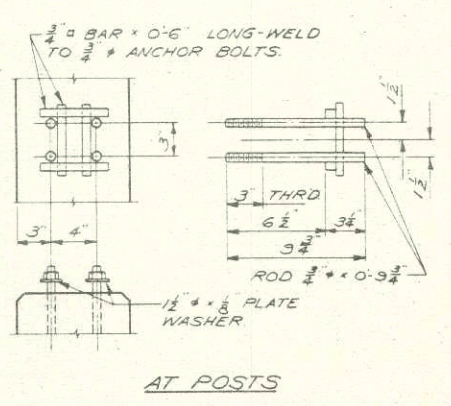
END PLATE SHIM DETAILS



POST SHIM DETAILS



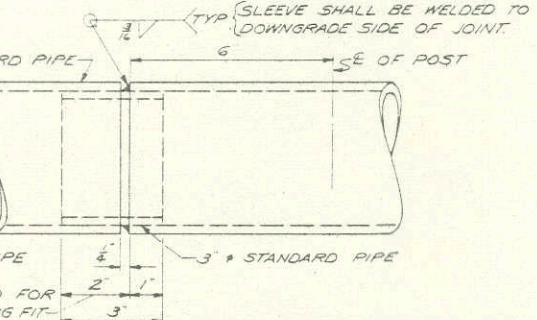
ANCHOR BOLT SETTING DETAILS



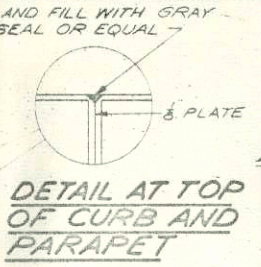
AT POSTS



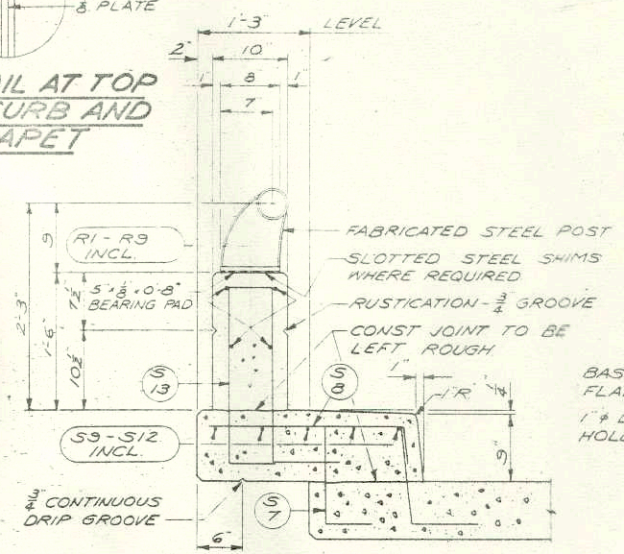
RAIL SPLICE DETAIL



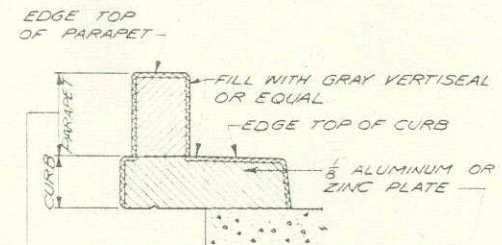
RAIL DEFLECTION JOINT DETAIL



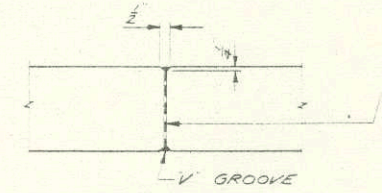
DETAIL AT TOP OF CURB AND PARAPET



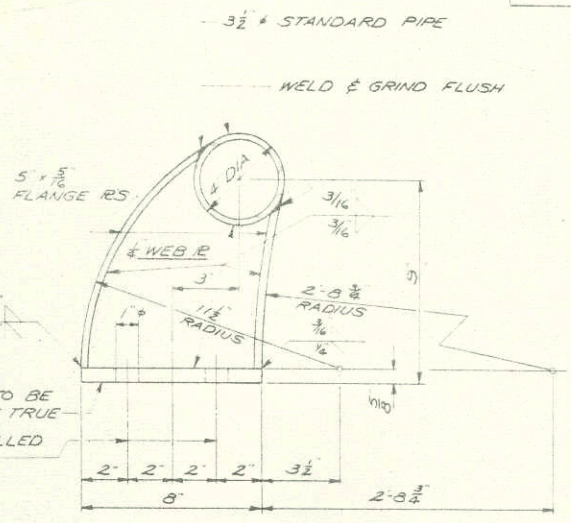
SECTION THRU CURB



SECTION A



SECTION B



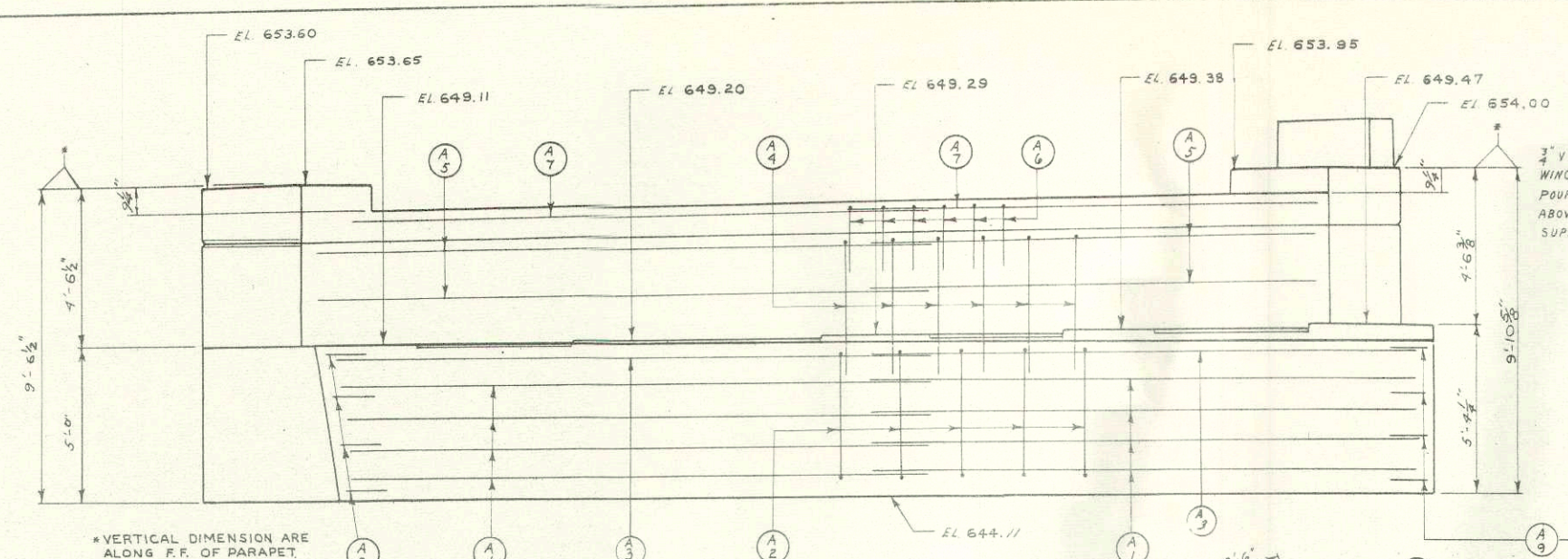
POST DETAILS

NOTES

1. STEEL RAIL POSTS SHALL BE SET NORMAL TO GRADE.
2. RAILING SHALL BE FABRICATED IN LENGTHS AS SHOWN.
3. STEEL SHIMS SHALL BE USED UNDER POSTS AND UNDER END PLATES WHERE REQUIRED FOR ALIGNMENT.
4. WHEN PARAPETS AND CURBS ARE POURED CONTINUOUSLY FROM END TO END THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF 1/8" ZINC OR ALUMINUM PLATE CUT AS SHOWN IN SECTION "A" BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS AND CURBS ARE USED AT THE DEFLECTION JOINTS ONE SIDE OF JOINT SHALL BE COATED WITH BITUMINOUS PAINT AND PLATE SEPARATORS MAY BE OMITTED.
5. THE FOLLOWING MATERIALS SHALL BE USED:
RAILING SHALL BE 3/2" STANDARD PIPE ASTM DESIGNATION A53.
POST SHALL BE FABRICATED FROM MATERIAL CONFORMING TO ASTM DESIGNATION A36.
ANCHOR BOLTS TO BE MADE FROM MATERIAL CONFORMING TO ASTM DESIGNATION A307.
SLEEVES SHALL BE 3" STANDARD PIPE ASTM DESIGNATION A53.
6. CAULK EXPOSED OPENINGS BETWEEN SHIMS WITH LEAD WOOL.

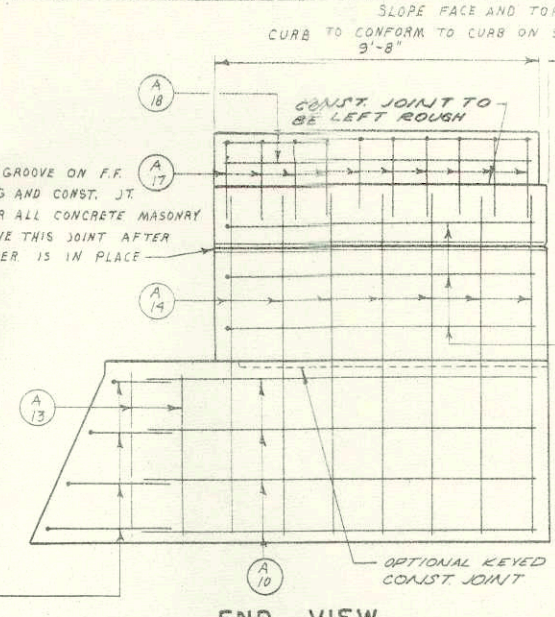
STATE HIGHWAY COMMISSION OF WISCONSIN			
STEEL RAILING TYPE "A"			
DESIGN SPEC	AASHO G1	LOADING	H20-S16
DATE	1/763	DRAWN	BW
STRUCTURE	B-32-34	SHEET	10 OF 16

PROJECT	SHEET NO.	TOTAL SHEETS
I-90-B(2) 215	16	36

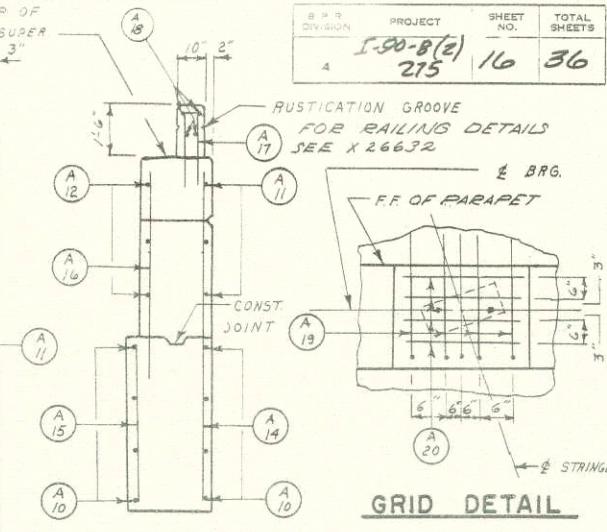


*VERTICAL DIMENSIONS ARE ALONG F.F. OF PARAPET.

ELEVATION
LOOKING WEST



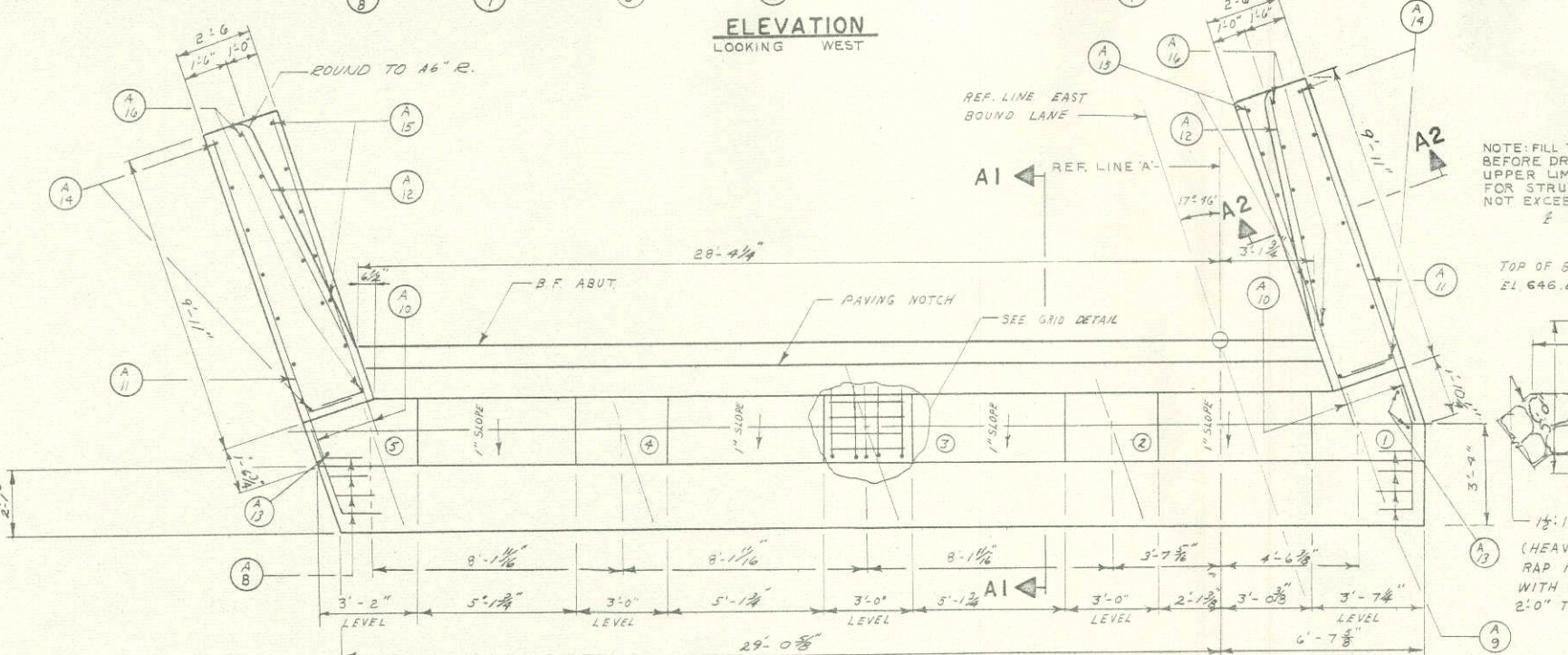
END VIEW



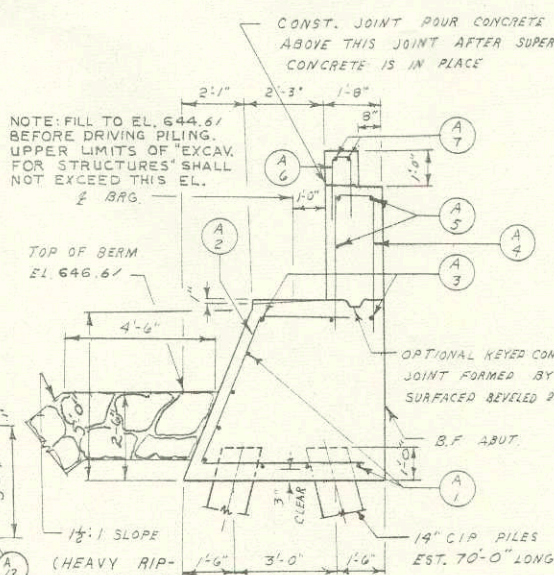
SECTION A2
TYP. BOTH WINGS
BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT 1,690#

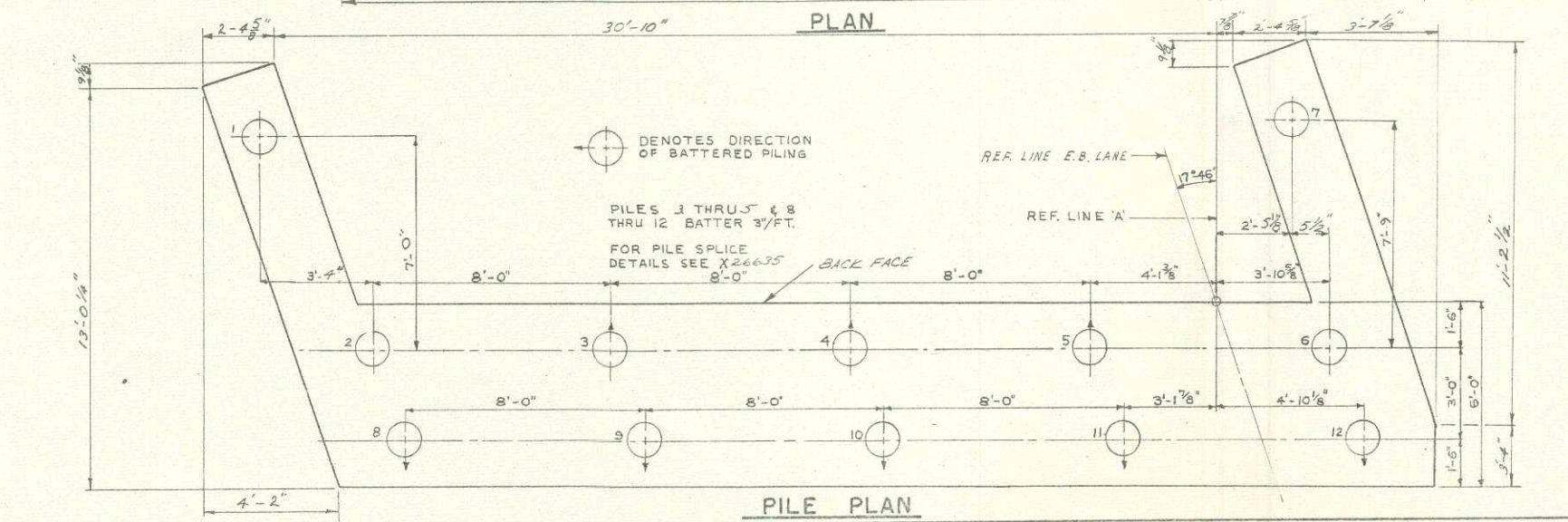
MARK NO	SIZE	LENGTH	SPACING	LOCATION	DET.
A1	14	4	18-6	SHOWN	BODY - LONG. (SIDES AND BOTTOM)
A2	18	4	13-0	2-0	BODY - STIRRUPS
A3	6	6	18-9	SHOWN	BODY - LONG. (TOP)
A4	21	5	9-3	1-6	PARAPET - STIRRUPS
A5	6	4	17-0	SHOWN	" - LONG.
A6	31	5	5-0	1-0	PAVING BLOCK - STIRRUPS
A7	4	4	16-3	SHOWN	" - LONG.
A8	4	4	5-0	1-6	BODY - CORNER
A9	4	4	5-9	1-6	"
A10	16	4	11-3	1-6	WINGS (INSIDE AND OUTSIDE FACE)
A11	6	4	11-0	1-6	" (OUTSIDE FACE)
A12	6	4	11-3	1-6	" (INSIDE FACE)
A13	3	4	4-6	SHOWN	BODY (OUTSIDE FACE)
A14	14	4	9-3	1-6	WINGS "
A15	10	4	4-9	1-6	" (INSIDE FACE)
A16	14	4	5-6	1-6	"
A17	20	5	5-6	1-0	WING PARAPET (STIRRUPS)
A18	8	5	9-3	SHOWN	" - LONG.
A19	25	4	4-0	"	GRID BARS
A20	20	4	2-9	"	"



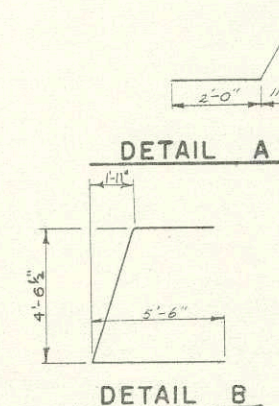
PLAN



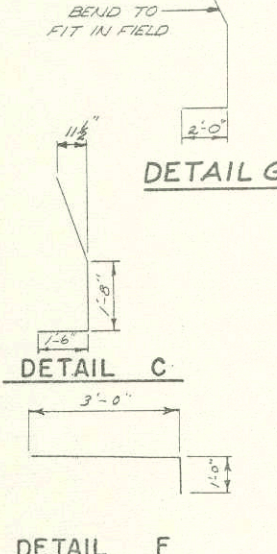
SECTION A1



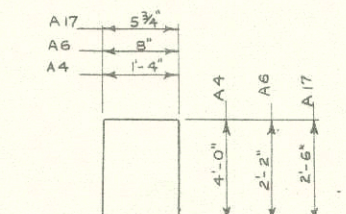
PILE PLAN



DETAIL A
DETAIL B



DETAIL C
DETAIL D
DETAIL E



DETAIL F
DETAIL G

NOTE: THE 2'-0" SPA. SHOWN FOR "2" BARS MAY BE ALTERED TO CLEAR PILING.

REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN
	WEST ABUTMENT
DESIGN SPEC. AASHO 61	LOADING A19.2-S16
DATE 1-17-63	DESIGN BHM
DRAWN MHH	CRD. DJ
STRUCTURE B-32-34	SHEET 11 OF 16

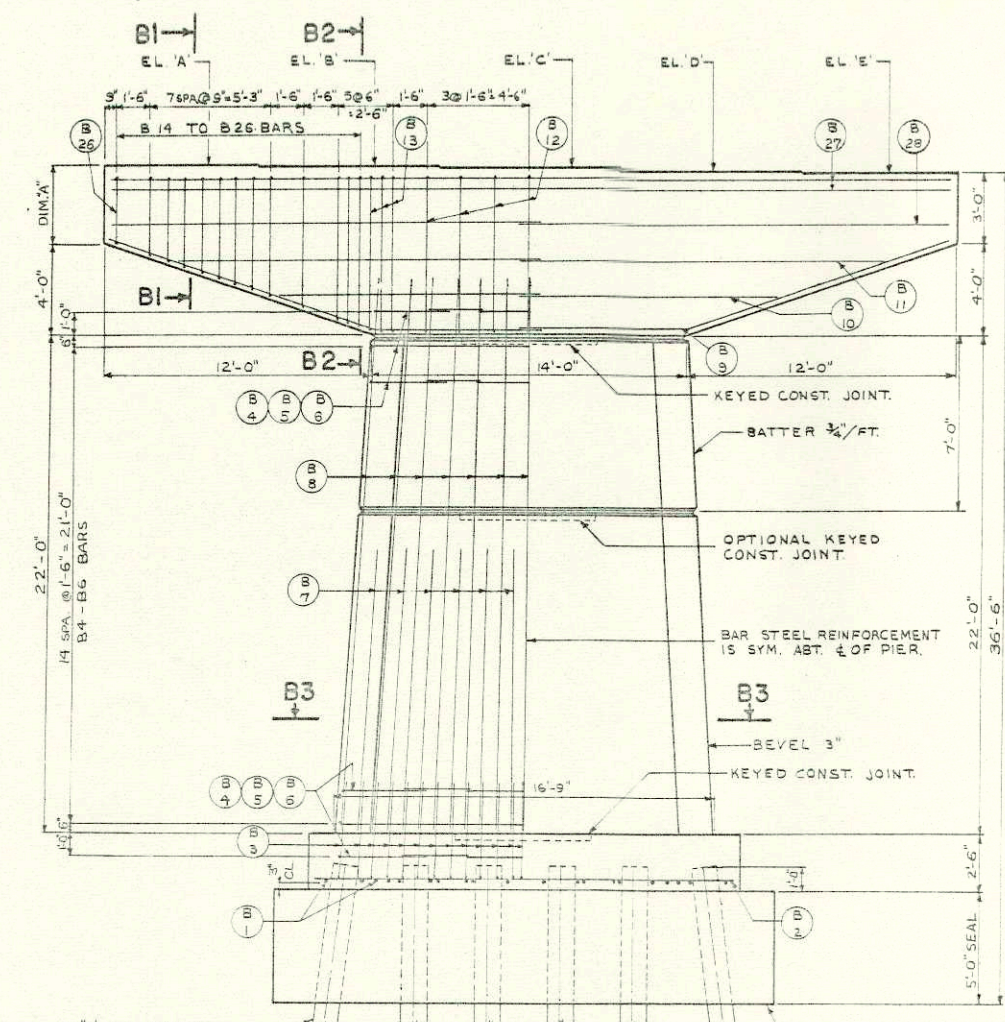
X26633

PROJECT	SHEET NO.	TOTAL SHEETS
I-50-8(2)	17	36
275		

BILL OF BARS 33,440#

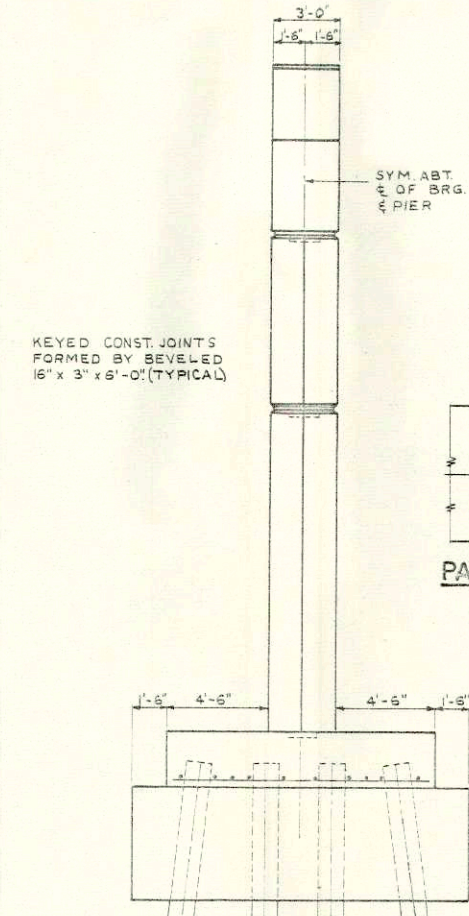
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

POUR MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.	
FOOTING	B1	80	10	11-6	SHOWN	FOOTING	
	B2	40	9	18-9	"	"	
	B3	192	8	4-0	"	FOOTING DOWELS	
	B4	8	4	8-3	"	FOOTING TIES	
	B5	16	4	6-6	"	"	
	B6	8	4	9-3	"	"	
STEM	B4	120	4	8-3	SHOWN	STEM TIES	
	B5	240	4	6-6	"	"	
	B6	120	4	3-3	"	"	
	B7	96	8	13-0	"	STEM VERTICAL	
	B8	96	8	24-0	"	"	
	CAP BEAM	B4	8	4	8-3	SHOWN	CAP TIES
		B5	16	4	6-6	"	"
		B6	8	4	9-3	"	"
B9		24	4	20-6	"	CAP BOTTOM	
B10		16	4	12-0	1-6	CAP SIDES	
B11		16	4	16-6	1-6	"	
B12		28	4	19-3	1-6	CAP STIRRUPS	
B13		48	4	17-6	6	"	
B14		16	4	17-0	SHOWN	"	
B15		16	4	16-9	"	"	
B16		16	4	16-6	"	"	
B17		8	4	17-3	"	"	
B18		8	4	16-3	"	"	
B19		8	4	15-3	"	"	
B20	8	4	15-3	"	"		
B21	8	4	14-9	"	"		
B22	8	4	14-3	"	"		
B23	8	4	13-9	"	"		
B24	8	4	13-3	"	"		
B25	8	4	12-9	"	"		
B26	8	4	11-9	"	"		
B27	48	11	37-6	"	CAP TOP		
B28	16	4	19-3	1-5	CAP SIDES		

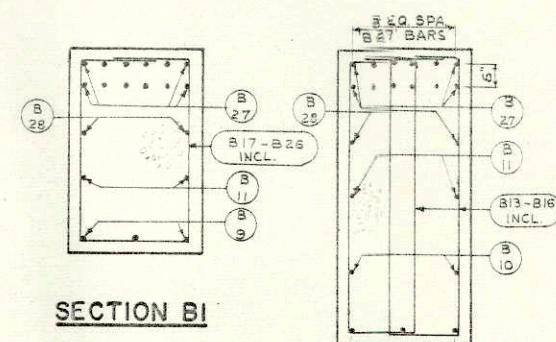


ELEVATION
(LOOKING EAST)

	EL. A'	EL. B'	EL. C'	EL. D'	EL. E'	EL. F'	DIM. A'
PIER 1	647.14	647.06	646.97	646.88	646.79	610.29	3'-4 1/2"
PIER 2	647.59	647.49	647.40	647.32	647.23	610.73	3'-4 1/2"
PIER 4	648.36	648.27	648.18	648.10	648.02	611.52	3'-4 1/2"
PIER 5	648.71	648.62	648.54	648.46	648.37	611.87	3'-4 1/2"

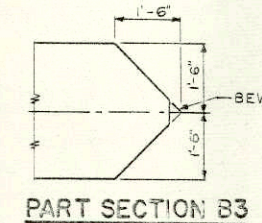


END VIEW

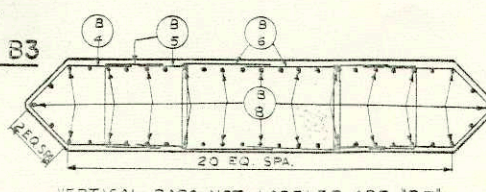


SECTION B1

SECTION B2

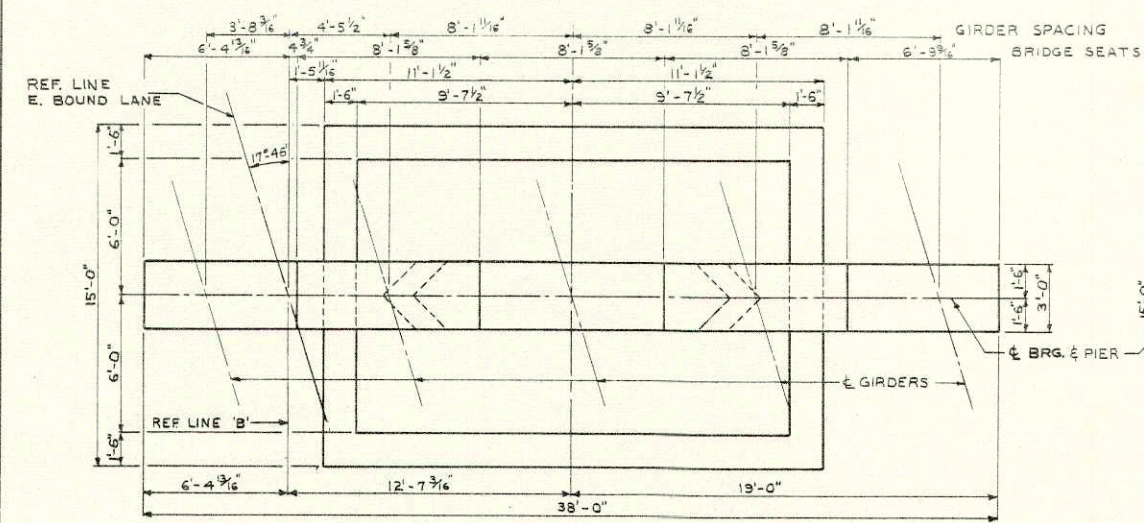


PART SECTION B3

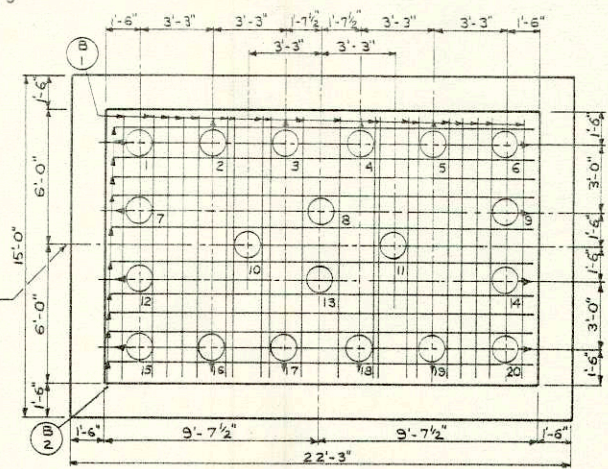


SECTION B3

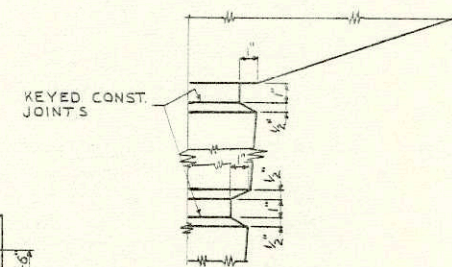
NOTE: UNLESS OTHERWISE SHOWN, ALL BAR STEEL REINF. SHALL BE IMBEDDED 2 1/2" CL.



PLAN

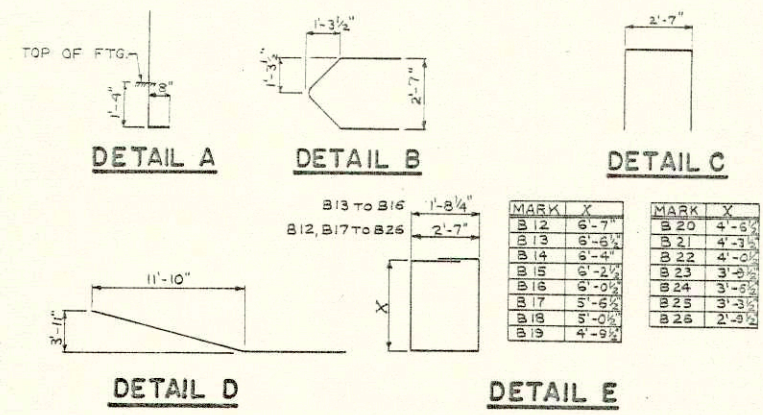


FOOTING PLAN



RUSTICATION DETAIL

BAR STEEL REINF. IN FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PILES.



DETAIL A

DETAIL B

DETAIL C

DETAIL D

DETAIL E

MARK	X	MARK	X
B12	6'-7"	B20	4'-6"
B13	6'-6"	B21	4'-3"
B14	6'-4"	B22	4'-0"
B15	6'-2"	B23	3'-9"
B16	6'-0"	B24	3'-5"
B17	5'-6"	B25	3'-3"
B18	5'-0"	B26	2'-9"
B19	4'-9"		

⊙ DENOTES DIRECTION OF BATTERED PILING.
FOR PILE SPLICE DETAILS SEE X 26635
PILE SPA. SHOWN ABOVE IS TAKEN AT TOP OF SEAL.

NOTE: PILES 1 THRU 6, 7, 9, 12, 14, & 15 THRU 20 BATTER 1 1/2" / FT.

ESTIMATED CONCRETE MASONRY (TYPICAL)

POUR	C.Y.	58.0
SEAL	C.Y.	20.5
FOOTING	C.Y.	34.0
STEM	C.Y.	25.0
CAP	C.Y.	

REVIEWED	STATE HIGHWAY COMMISSION OF WISCONSIN
PIERS 1, 2, 4 & 5	
DESIGN SPEC: AASHTO '61	LOADING: H20-S16M
DATE: 1-17-63	DESIGN: B.H.M.
STRUCTURE B-32-34	SHEET 12 OF 16

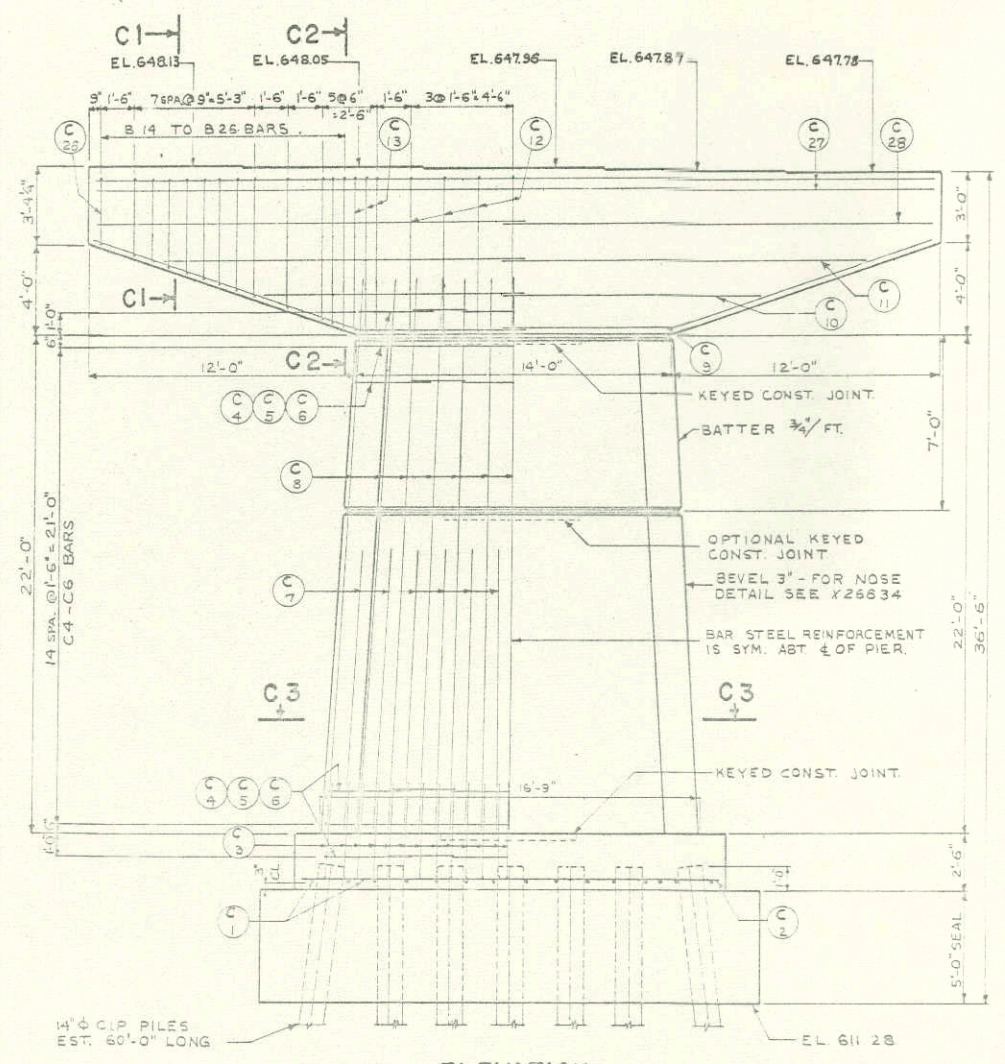
PROJECT	SHEET NO.	TOTAL SHEETS
I-90-8(2)	18	36
275		

BILL OF BARS

7,860'

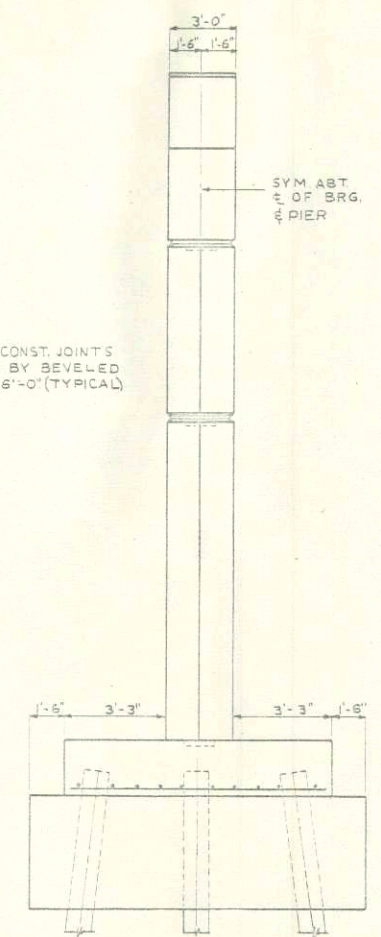
DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT.

POUR MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
FOOTING						
C1	16	10	9-0	SHOWN	FOOTING	
C2	12	7	20-6	"	"	
C3	48	8	4-0	"	FOOTING, DOWELS	A
C4	2	4	8-3	"	FOOTING, TIES	B
C5	4	4	6-6	"	"	C
C6	2	4	9-3	"	"	C
STEM						
C4	30	4	8-3	1-6	STEM, TIES	B
C5	60	4	6-6	1-6	"	C
C6	30	4	9-3	1-6	"	C
C7	24	8	13-0	SHOWN	STEM, VERTICAL	
C8	24	8	24-0	"	"	
CAP BEAM						
C4	2	4	8-3	SHOWN	CAP, TIES	B
C5	4	4	6-6	"	"	C
C6	2	4	9-3	"	"	C
C9	6	4	20-6	"	CAP, BOTTOM	D
C10	4	4	12-0	1-6	CAP, SIDES	
C11	4	4	16-6	1-6	"	
C12	7	4	19-3	1-6	CAP, STIRRUPS	E
C13	12	4	17-6	6	"	E
C14	4	4	17-0	SHOWN	"	E
C15	4	4	16-3	"	"	E
C16	4	4	16-6	"	"	E
C17	2	4	17-3	"	"	E
C18	2	4	18-3	"	"	E
C19	2	4	15-3	"	"	E
C20	2	4	15-3	"	"	E
C21	2	4	14-3	"	"	E
C22	2	4	14-3	"	"	E
C23	2	4	13-9	"	"	E
C24	2	4	13-3	"	"	E
C25	2	4	12-9	"	"	E
C26	2	4	11-3	"	"	E
C27	12	11	37-6	"	CAP, TOP	
C28	4	4	13-3	1-6	CAP, SIDES	



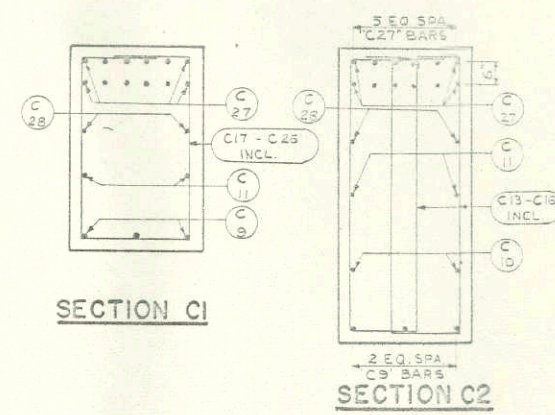
ELEVATION
LOOKING EAST

KEYED CONST. JOINTS FORMED BY BEVELED 16" x 3" x 6"-0" (TYPICAL)



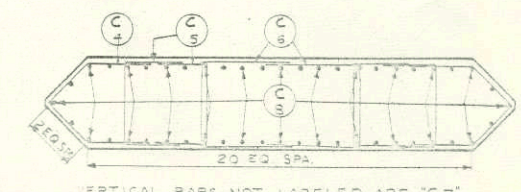
END VIEW

NOTE: UNLESS OTHERWISE SHOWN, ALL BAR STEEL REINF. SHALL BE IMBEDDED 2" CL.

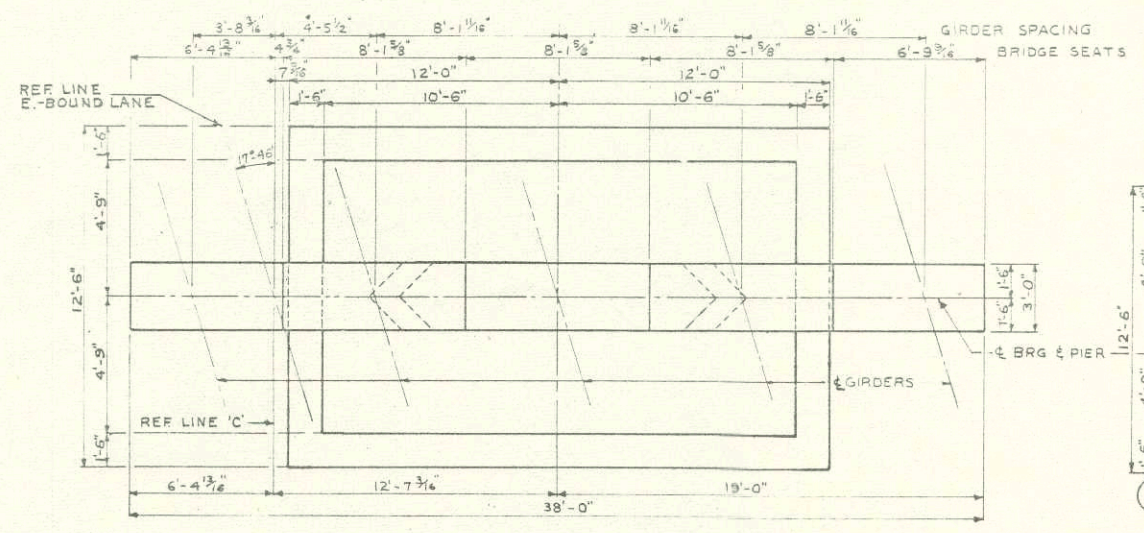


SECTION C1

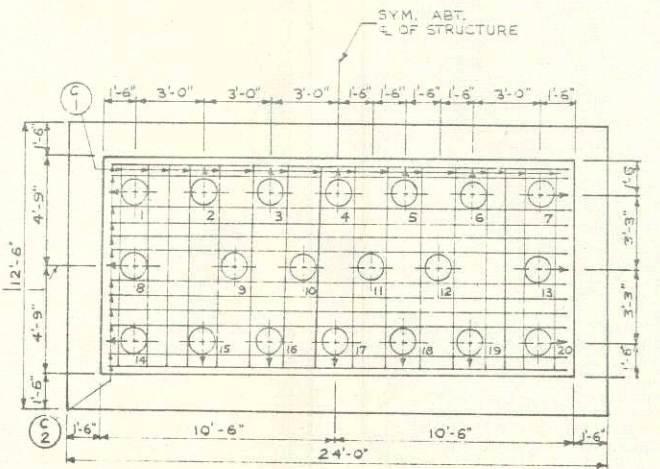
SECTION C2



SECTION C3



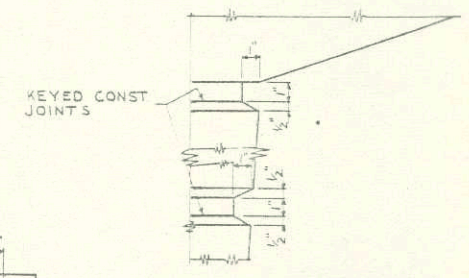
PLAN



FOOTING PLAN

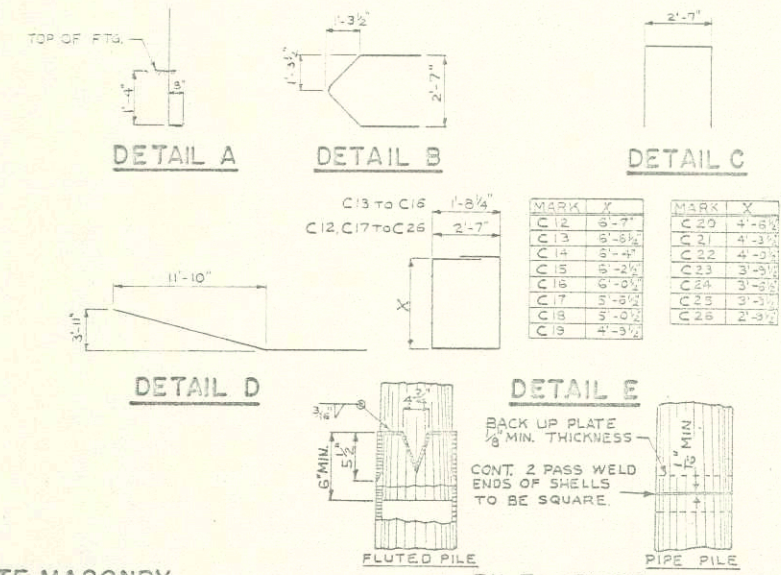
⊙ DENOTES DIRECTION OF BATTERED PILING
PILE SPA. SHOWN ABOVE IS TAKEN AT TOP OF SEAL.

NOTE: BATTER PILES 2 THRU 6 & 15 THRU 19, 1 1/2" / FT. BATTER PILES 1, 7, 8, 13, 14 & 20 2" / FT.



RUSTICATION DETAIL

BAR STEEL REINF. IN FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PILES.



PILE SPLICE

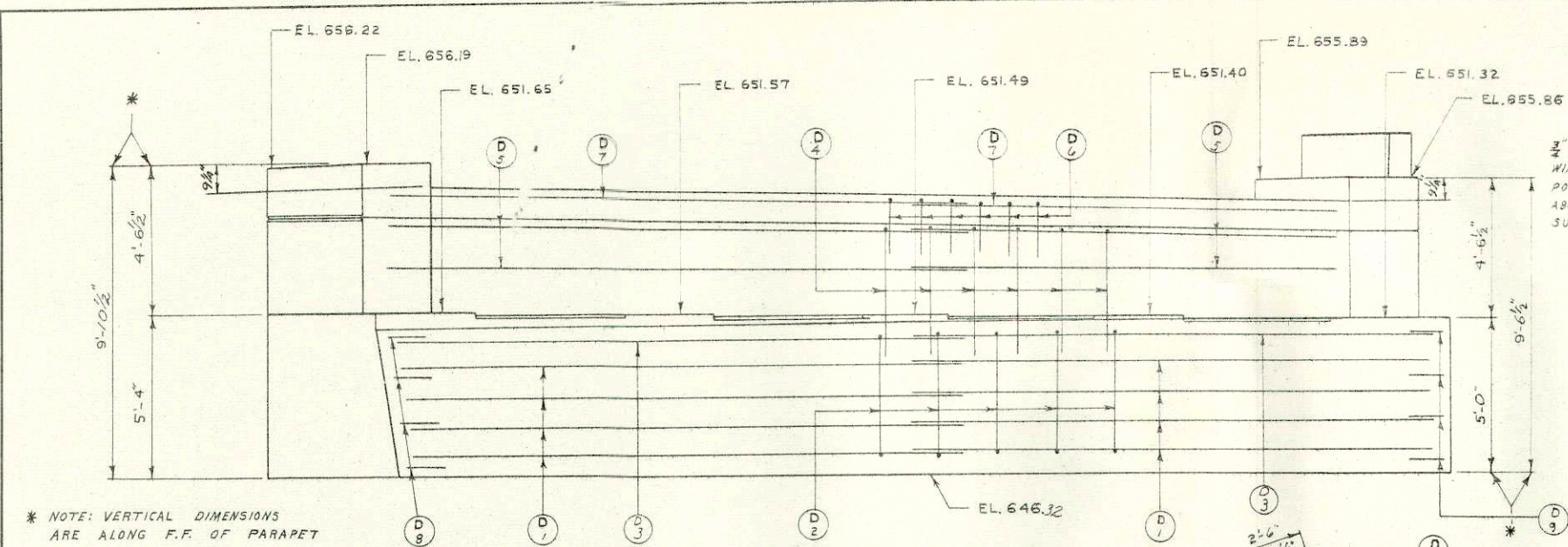
ESTIMATED CONCRETE MASONRY

POUR	C.Y.	51.5
SEAL	C.Y.	17.7
FOOTING	C.Y.	34.0
STEM	C.Y.	25.0
CAP	C.Y.	

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
PIER 3	
DRAWING H20-516M, CORRECT 1963	
DATE: 1-17-63 DESIGN: B.H.M. DRAWING: B.H.M. CHECK: [Signature]	
STRUCTURE B - 32 - 34	SHEET 13 OF 16

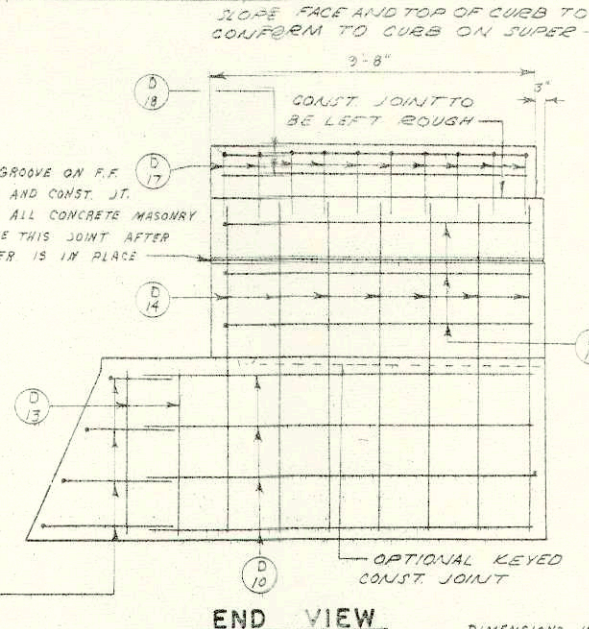
X26635

PROJECT	1-20-8(2)	SHEET NO.	19	TOTAL SHEETS	36
DIVISION	275				

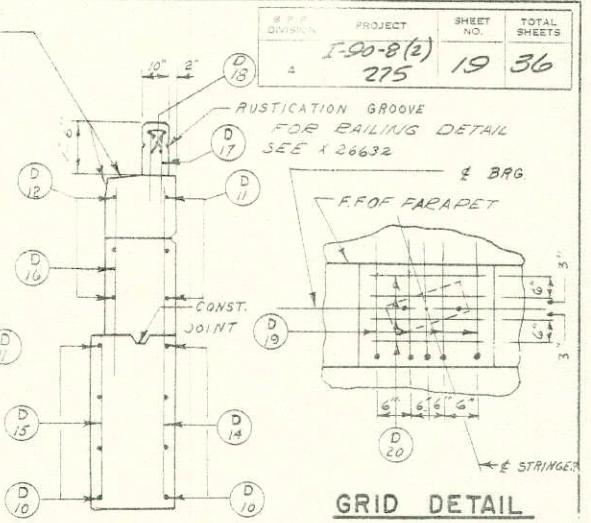


* NOTE: VERTICAL DIMENSIONS ARE ALONG F.F. OF PARAPET

ELEVATION
LOOKING EAST.



END VIEW



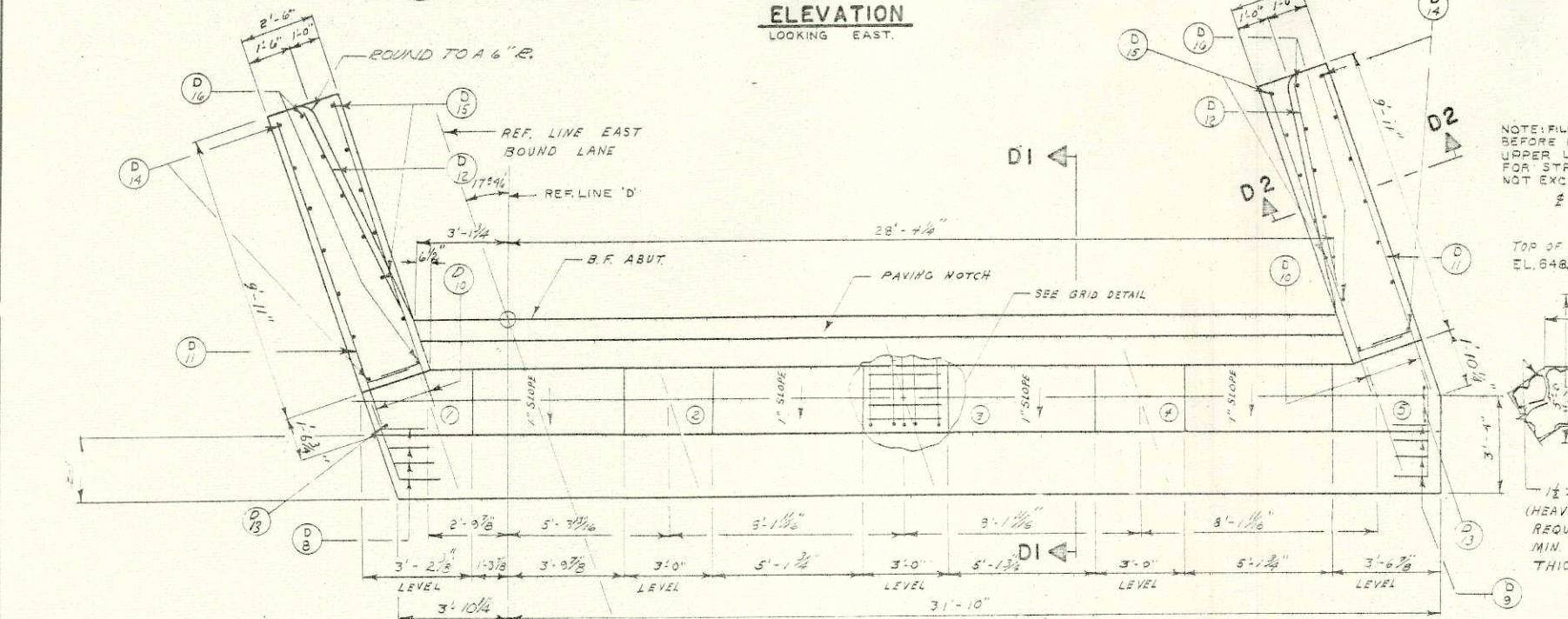
SECTION D2
TYP. BOTH WINGS.

BILL OF BARS 1,690#

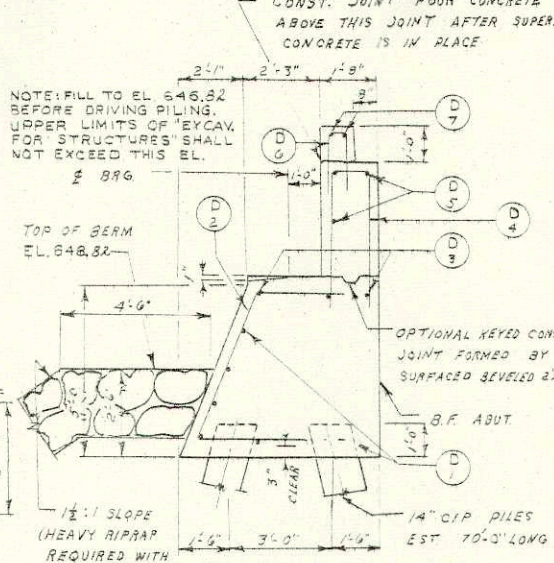
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

MARK NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
D1	14	4	18-6	SHOWN	BODY - LONG (SIDES AND BOTTOM)
D2	18	4	13-0	2-0	BODY - STIRRUPS
D3	6	6	18-9	SHOWN	BODY - LONG (TOP)
D4	21	5	9-3	1-6	PARAPET - STIRRUPS
D5	6	4	17-0	SHOWN	" - LONG.
D6	3	5	5-0	1-0	PAVING BLOCK - STIRRUPS
D7	4	4	16-3	SHOWN	" " - LONG.
D8	4	4	5-0	1-6	BODY - CORNER
D9	4	4	5-9	1-6	" " " "
D10	16	4	11-3	1-6	WINGS (INSIDE AND OUTSIDE FACE)
D11	6	4	11-0	1-6	" (OUTSIDE FACE)
D12	6	4	11-3	1-6	" (INSIDE FACE)
D13	3	4	4-6	SHOWN	BODY (OUTSIDE FACE)
D14	14	4	9-3	1-6	WINGS " "
D15	10	4	4-9	1-6	" (INSIDE FACE)
D16	14	4	5-6	1-6	" " " "
D17	20	5	5-6	1-0	WING PARAPET (STIRRUPS)
D18	8	5	9-3	SHOWN	" " - LONG.
D19	25	4	4-0	"	GRID BARS
D20	20	4	2-9	"	" " " "

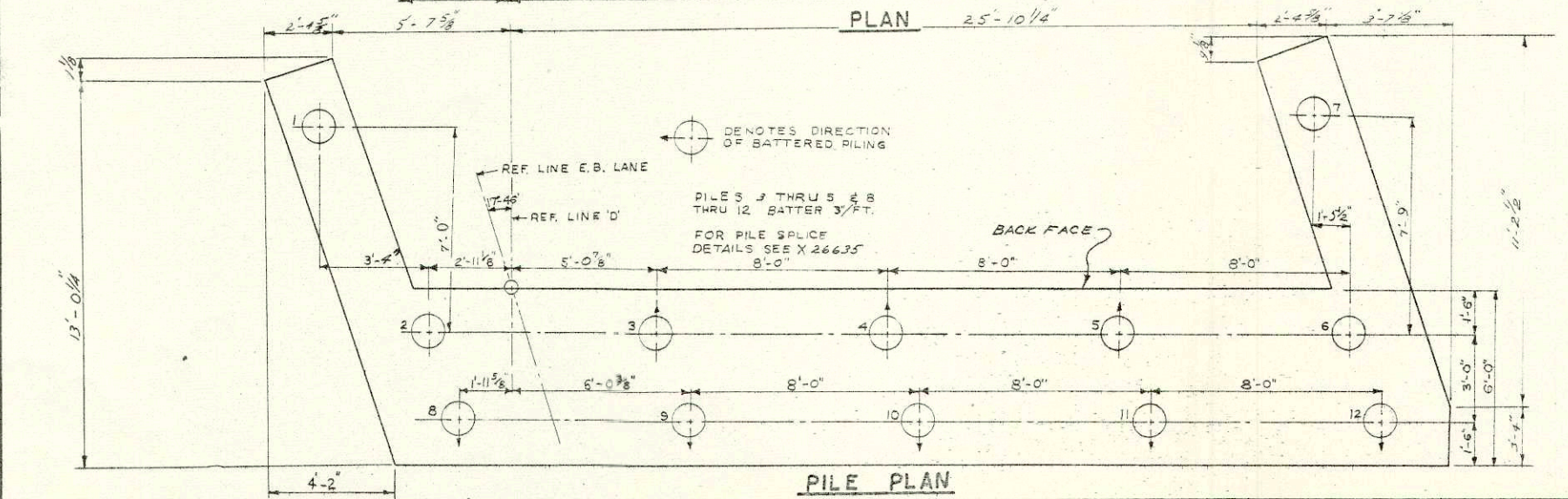
NOTE: THE 2-0 SPA. SHOWN FOR "D2" BARS MAY BE ALTERED TO CLEAR PILING.



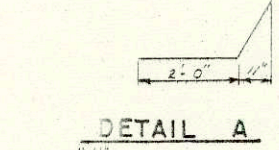
PLAN



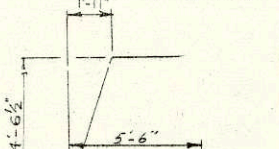
SECTION D1



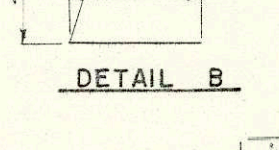
PILE PLAN



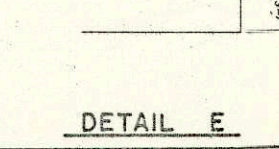
DETAIL A



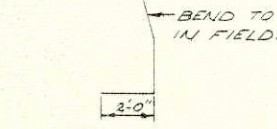
DETAIL B



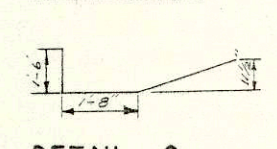
DETAIL C



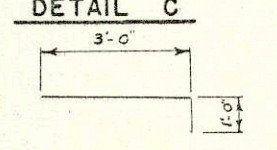
DETAIL D



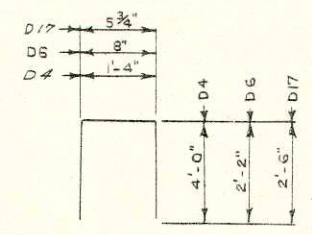
DETAIL E



DETAIL F



DETAIL G



DETAIL H

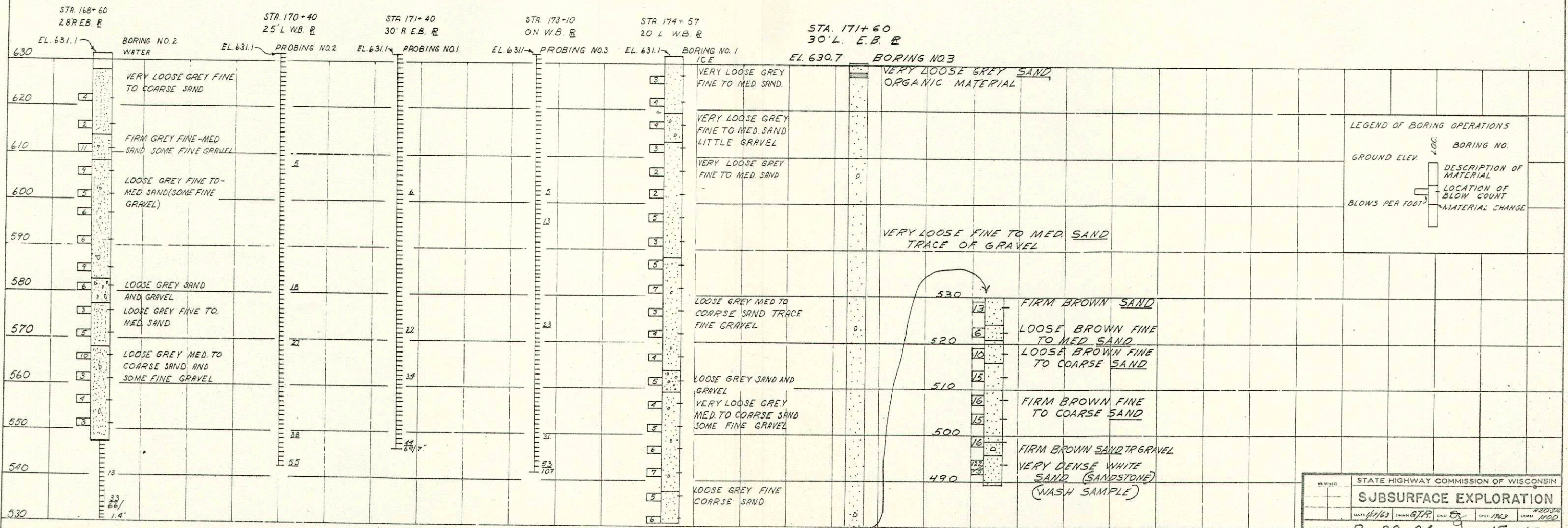
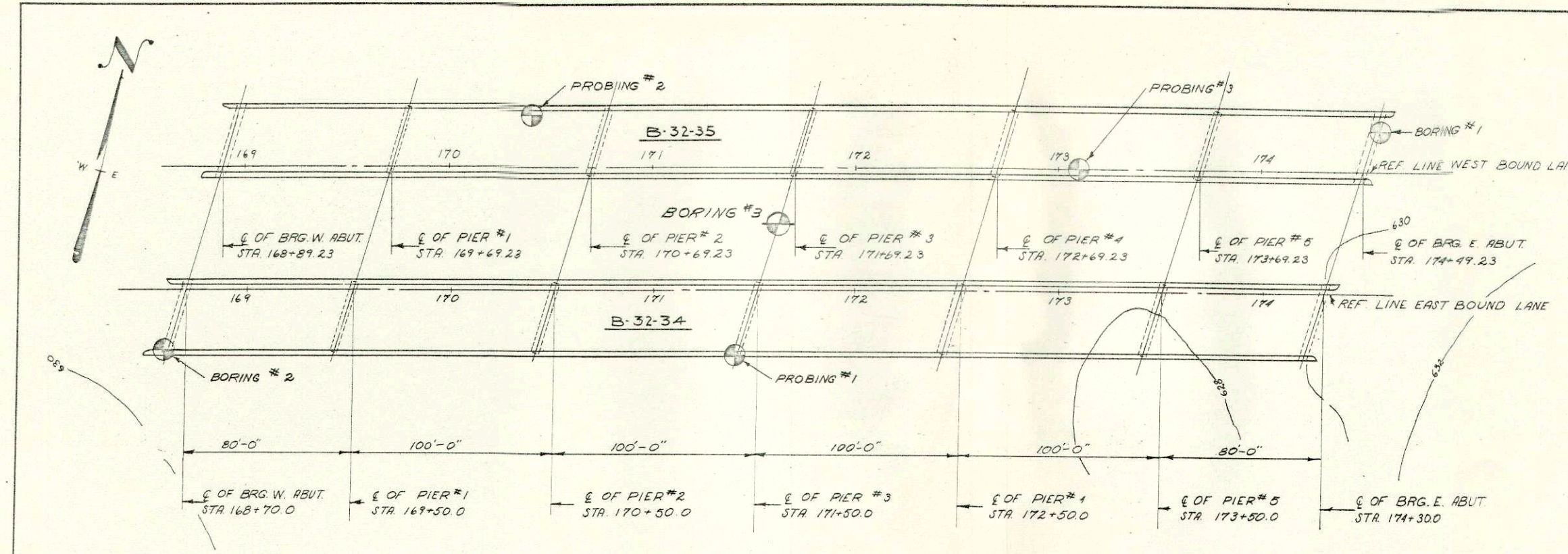
REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN
	EAST ABUTMENT
DESIGN SPEC.	AASHO 61
LOADING	H20-3/4
CONTRACT NO.	1963
DATE	12-63
DESIGN	BHM
DRAWN	MHH
CHECKED	EX
STRUCTURE	B-32-34
SHEET	14 OF 16

X 26636

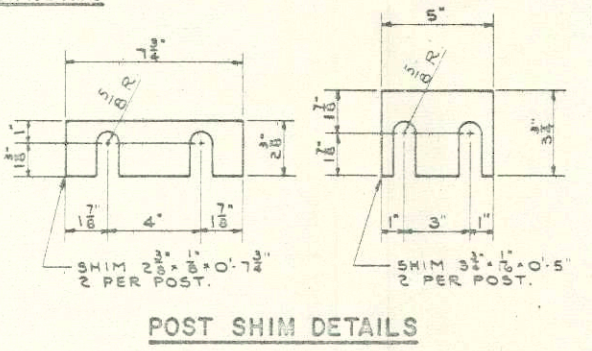
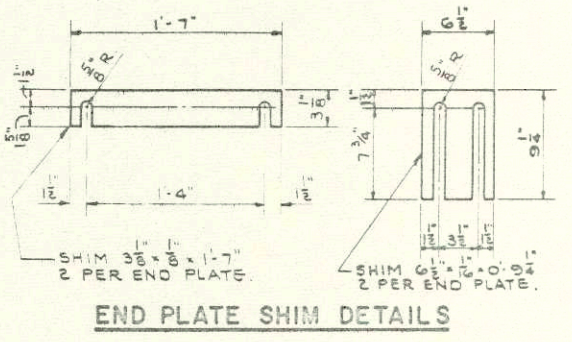
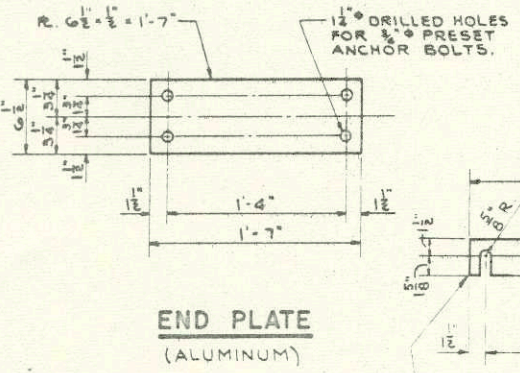
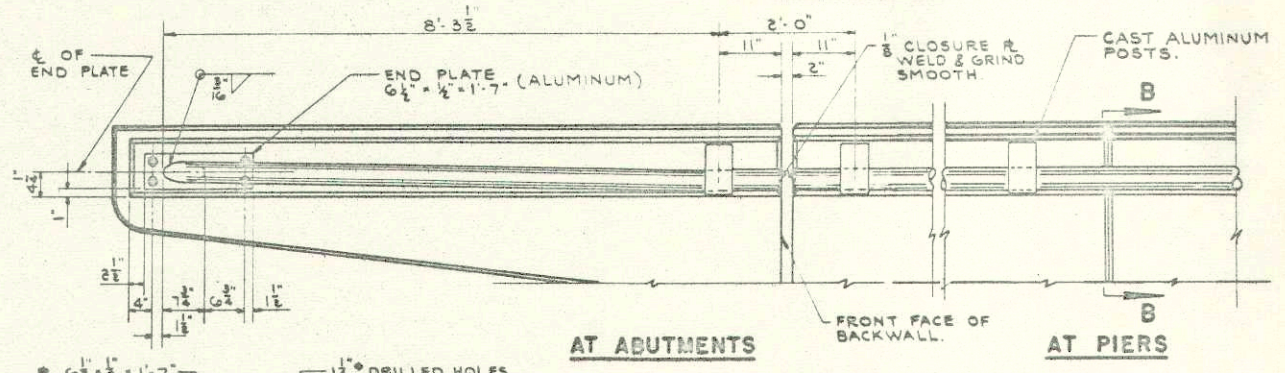
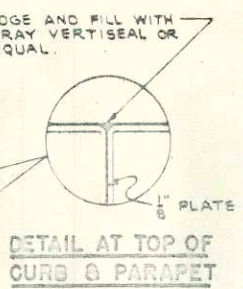
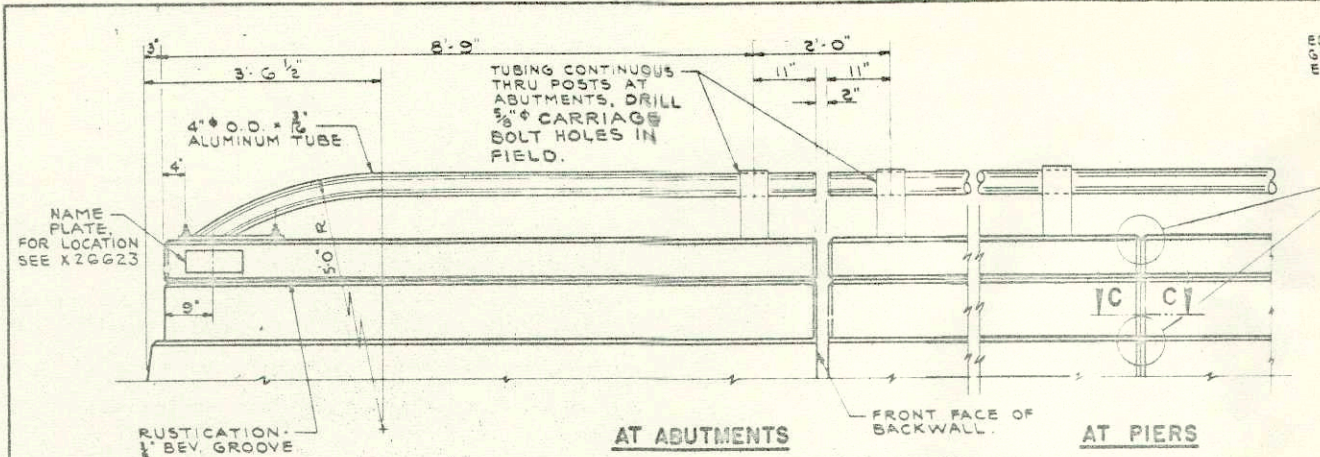
SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN

FOR THE DESIGN OF THE STRUCTURE FOUNDATION, TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING WITH THE LOG OF SUCH EXPLORATION DATA AS INTERPRETED FOR SUCH DESIGN PURPOSE AS SHOWN. THE EXPLORATIONS WERE MADE BY ORDINARY AND CONVENTIONAL METHODS, AND CARE DEEMED ADEQUATE FOR SUCH PURPOSE. HOWEVER, SINCE IT IS A MATTER OF COMMON KNOWLEDGE THAT THE EXACT CHARACTER OF ANY MATERIAL AND ITS REACTION IS DIFFICULT TO DETERMINE FROM SUCH SUBSURFACE EXPLORATION AND THAT THE KIND AND CHARACTER OF MATERIAL AT THE SITE WHERE THE FOUNDATIONS ARE BUILT MAY VARY SUBSTANTIALLY FROM THAT INDICATED BY THE LOG THEY ARE MADE AVAILABLE TO THE BIDDERS SIMPLY FOR WHAT THEY ARE WORTH, WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED THAT THE MATERIAL TO BE ENCOUNTERED IN BUILDING THE FOUNDATION WILL CONFORM THERWITH. IF THE LOG IS USED BY THE CONTRACTOR IN MAKING HIS BID, IT IS HEREBY EXPRESSLY STIPULATED THAT THE COMMISSION ACCEPTS NO RESPONSIBILITY FOR SAID USE.

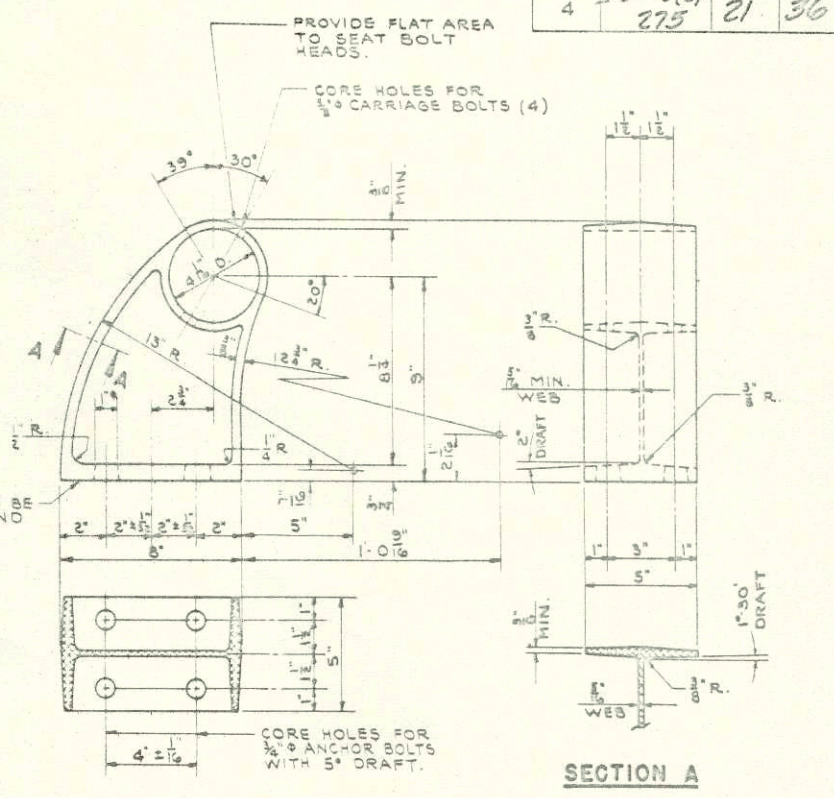
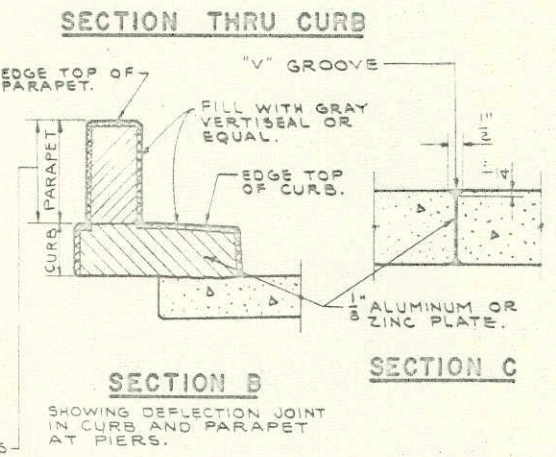
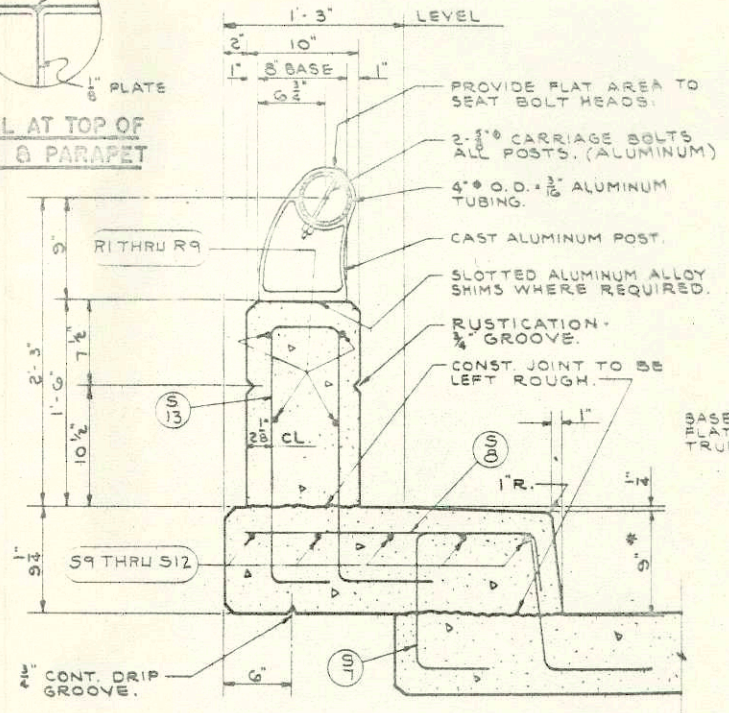
UNLESS OTHERWISE SPECIFIED THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" OD X 1.4" ID SPLIT SPOON SAMPLER WITH A 140 LB. HAMMER HAVING A FREE FALL OF 30 INCHES. THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.



X26637



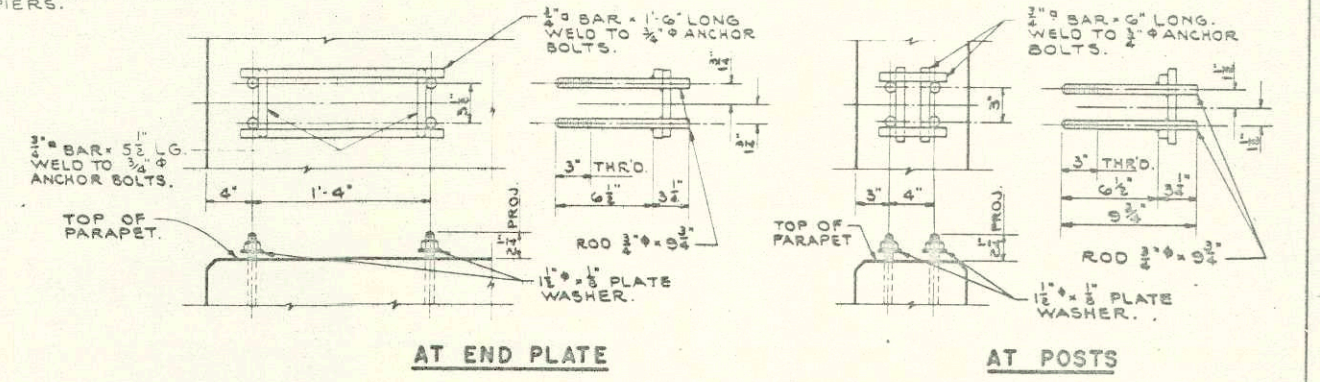
DETAILS OF DEFLECTION JOINTS IN PARAPET ONLY - SIMILAR TO THAT SHOWN IN THIS AREA.



ALUMINUM POST CASTING

NOTES

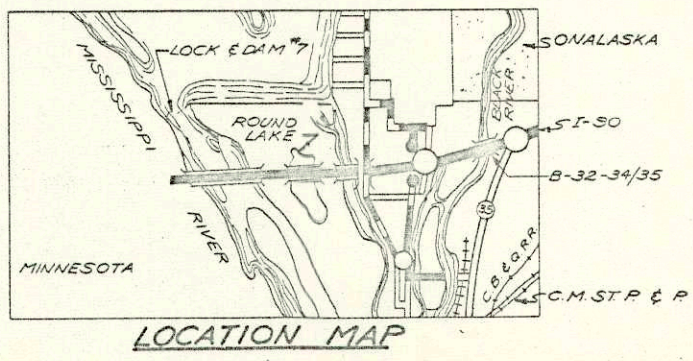
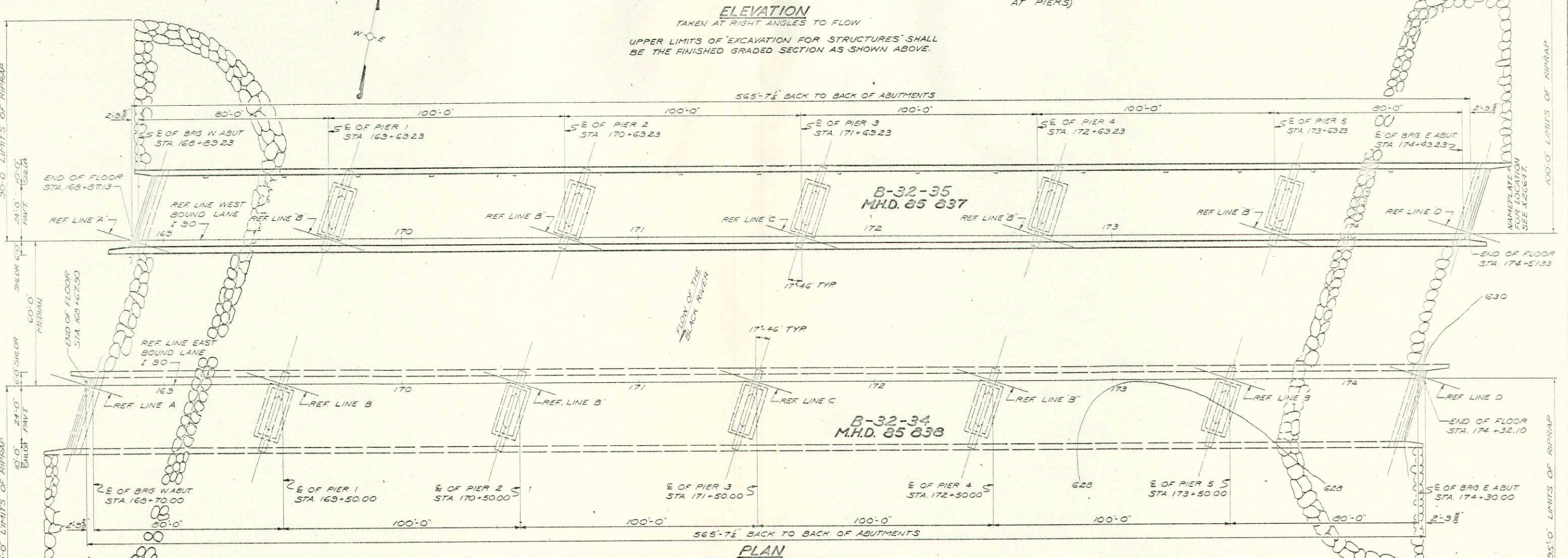
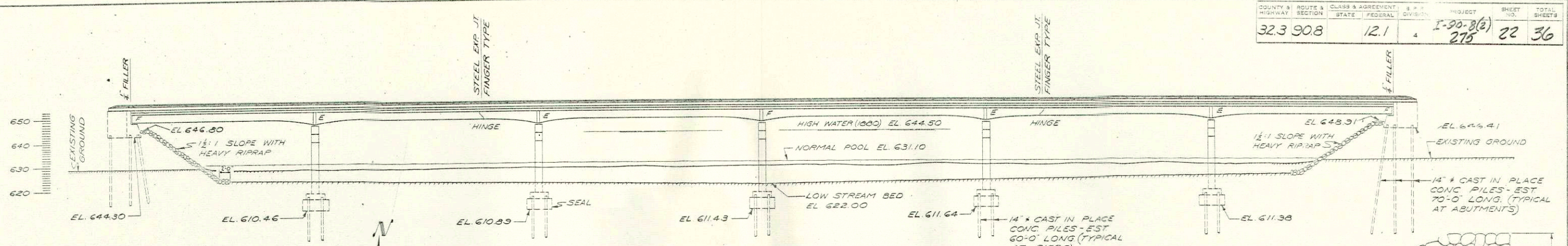
1. ALUMINUM RAILING POSTS TO BE SET NORMAL TO GRADE.
2. THE HEX. NUTS, WASHERS AND THE UPPER 3' OF $\frac{1}{2}$ " \times $9\frac{3}{4}$ " LONG ANCHOR BOLTS SHALL BE GALVANIZED OR CADMIUM PLATED. THE ANCHOR BOLT HOLES, BASE OF RAILING POSTS AND ANCHOR BOLTS, NUTS AND WASHERS SHALL BE COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND. ANCHOR BOLTS, HEX. NUTS AND WASHERS TO BE STRUCTURAL CARBON STEEL.
3. ALUMINUM TUBING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.
4. ALUMINUM ALLOY SHIMS SHALL BE USED UNDER POSTS AND UNDER END PLATES WHERE REQUIRED FOR ALIGNMENT.
5. WHEN PARAPETS AND CURBS ARE POURED CONTINUOUSLY FROM END TO END THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF $\frac{1}{8}$ " ZINC OR ALUMINUM PLATE CUT AS SHOWN IN SECTION "B" BY SHADDED AREA. IF CONSTRUCTION JOINTS IN PARAPETS AND CURBS ARE USED AT THE DEFLECTION JOINTS ONE SIDE OF JOINT SHALL BE COATED WITH BITUMINOUS PAINT AND PLATE SEPARATORS MAY BE OMITTED.



REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	TUBULAR ALUMINUM RAILING
	DESIGN SPEC. A.A.S.H.O. G. I. LOADING 372' SPACED 1963
	DATE 1-17-63 DESIGN ST.G. DRAWN B.W. CKD B.Z.
STRUCTURE	B-32-34 SHEET 16 OF 16

X26637A

COUNTY & HIGHWAY SECTION	ROUTE & SECTION	CLASS & AGREEMENT	STATE	FEDERAL	PROJECT	SHEET NO.	TOTAL SHEETS
32.3 908	12.1	12.1			I-90-B(2) 275	22	36

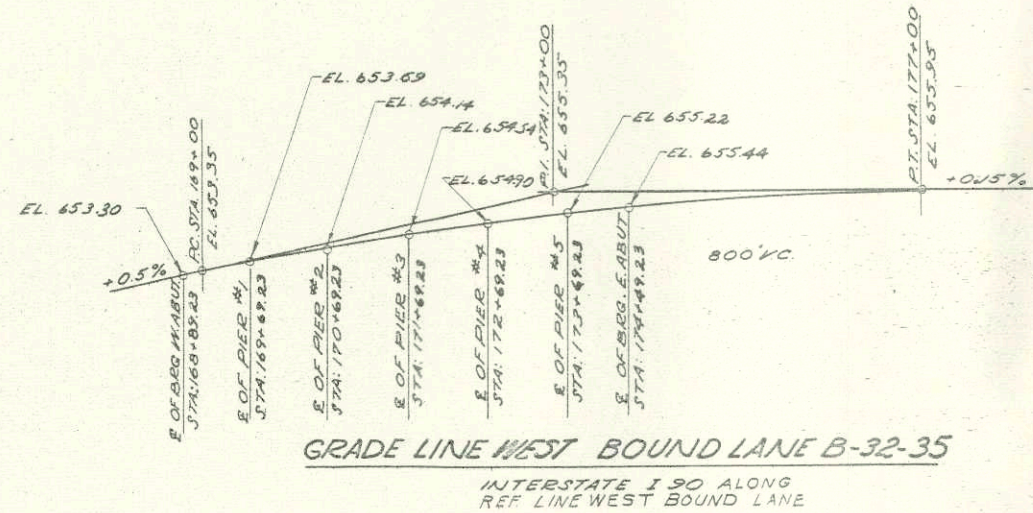


- LIST OF DRAWINGS**
- 1. GENERAL PLAN - X26638
 - 2. TOTAL ESTIMATED QUANTITIES - X26639
 - 3. SUPERSTRUCTURE - X26640
 - 4. GIRDER DETAILS - X26641
 - 5. GIRDER DETAILS - X26642
 - 6. POURING, FORMING & BLOCKING DIAGRAMS - X26643
 - 7. LONG SECTION & BEARINGS - X26644
 - 8. EXPANSION JOINTS - X26645
 - 9. FLOOR DRAIN DETAILS - X26646
 - 10. TUBULAR STEEL RAILING-TYPE A - X26647
 - 11. WEST ABUTMENT - X26648
 - 12. PIERS 1, 2, 4 & 5 - X26649
 - 13. PIER 3 - X26650
 - 14. EAST ABUTMENT - X26651
 - 15. TUBULAR ALUMINUM RAILING-TYPE A FOR 'SUB-SURFACE EXPLORATIONS' SEE B-32-34 - X26651A

STATE HIGHWAY COMMISSION OF WISCONSIN			
GENERAL PLAN			
DR. LA CROSSE	ENY. CAMPBELL	STA. 171+69.23	
SECTION 17	TOWN 16 N	RANGE 7 W	
DESIGN SPEC. AASHO '61	LOADING H20-576	CHART 1363	
DATE 1/17/63	DESIGN B.M.	DRAWN BY	CRD. SM
RECOMMENDED BY	APPROVED BY		
WISCONSIN STRUCTURE B-32-35 SHEET 1 OF 15			
MINNESOTA STRUCTURE 85 837	X26638		

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 BEVEL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE SPECIFIED.
 BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
 ALL CONCRETE MASONRY SHALL BE GRADE "A" FC-1400 P.S.I. UNLESS OTHERWISE NOTED.
 ALL PILING SHALL BE 14" CAST-IN-PLACE CONCRETE PILING DRIVEN TO A MINIMUM BEARING VALUE OF 40 TONS PER PILE. ESTIMATED LENGTH OF ABUTMENT PILES IS 70'-0"; MINIMUM PENETRATION OF 30'-0" BELOW STREAMBED. ESTIMATED LENGTH OF PIER PILES IS 60'-0"; MINIMUM PENETRATION OF 40'-0" BELOW BOTTOM OF SEAL.
 ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" Ø RIVETS OR HIGH TENSILE STRENGTH BOLTS UNLESS NOTED.
 THE TOP AND SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIP RAP AS SHOWN ON SHEETS K26638, K26648 AND K26651.
 THE SUPERSTRUCTURE SHALL BE TREATED WITH WATER SOLUBLE SILICONE IN ACCORDANCE WITH SECTION 502.3.13 OF THE STANDARD SPECIFICATIONS.

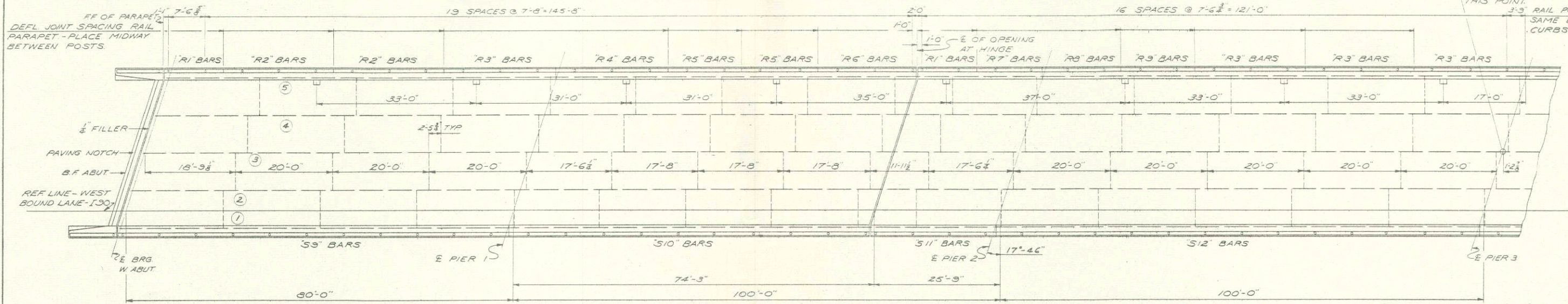
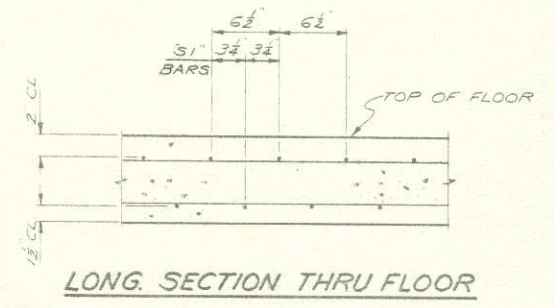
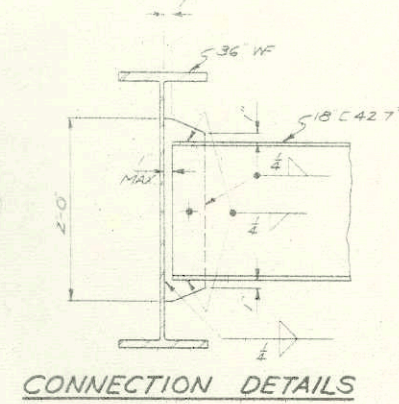
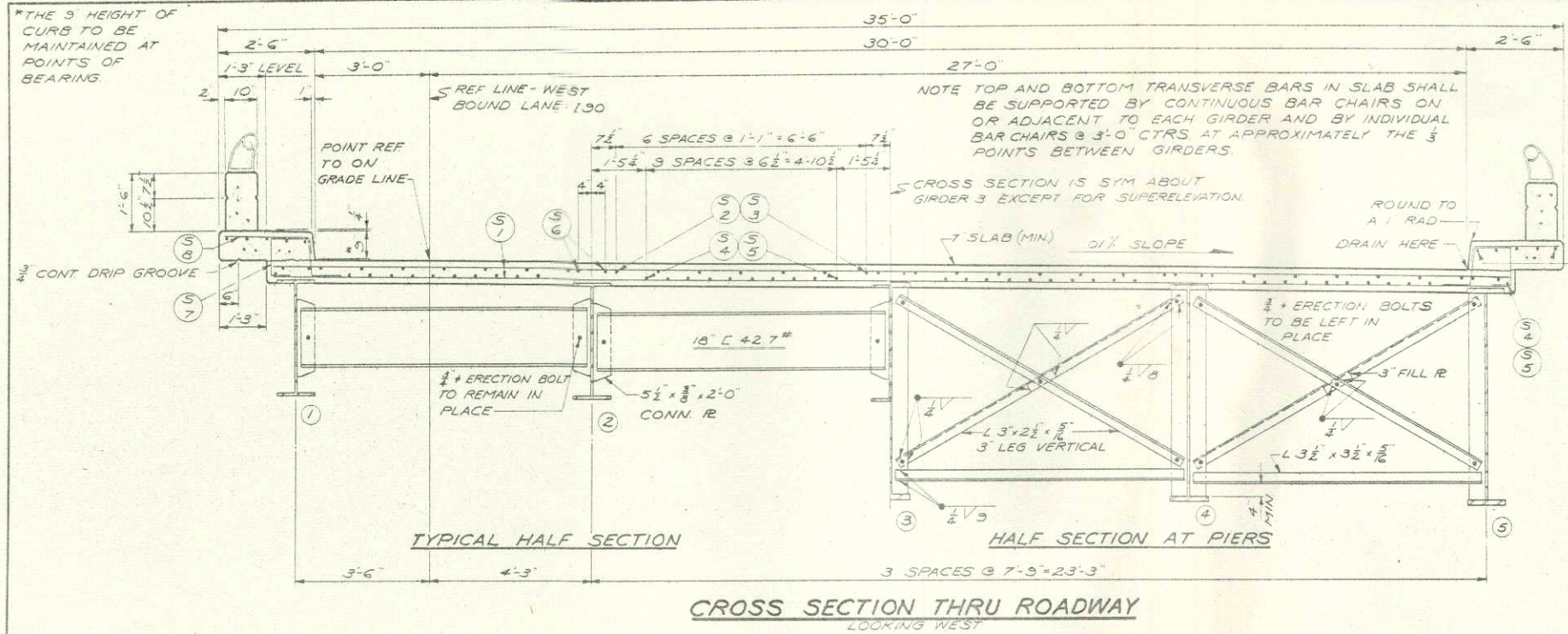


TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	SUPER.	WABUT	PIER 1	PIER 2	PIER 3	PIER 4	PIER 5	E. ABUT.	TOTAL
EXCAVATION FOR STRUCTURES	C.Y.	—	10	160	140	120	130	140	10	710
CONCRETE MASONRY GRADE	C.Y.	540.0	56.0	72.5	72.5	75.7	72.5	72.5	56.1	1048.3
BAR STEEL REINFORCEMENT	C.Y.	171,350	1,670	3,260	3,260	7,260	3,360	3,360	1,670	222,020
STRUCTURAL CARBON STEEL	LB.	555,100	—	—	—	—	—	—	—	555,100
STRUCTURAL LOW ALLOY STEEL	LB.	18,700	—	—	—	—	—	—	—	18,700
CARBON STEEL FORGINGS	LB.	510	—	—	—	—	—	—	—	510
* LUBRICATED BRONZE PLATES	LB.	445	—	—	—	—	—	—	—	445
* BEARING PADS	S.F.	45	—	—	—	—	—	—	—	45
CAST-IN-PLACE CONCRETE PILING, DELIVERED	L.F.	—	840	1,200	1,200	1,200	1,200	1,200	840	7,680
CAST-IN-PLACE CONCRETE PILING, DRIVEN	L.F.	—	840	1,080	1,080	1,080	1,080	1,080	840	7,020
TUBULAR RAILING TYPE "A"	L.F.	1,163	—	—	—	—	—	—	—	1,163
FLOOR DRAINS, TYPE A	EACH	16	—	—	—	—	—	—	—	16
HEAVY RIPRAP	CY.	—	480	—	—	—	—	—	600	1,080
CONCRETE MASONRY SEAL	SQ.	—	—	38.0	38.0	41.5	38.0	38.0	—	283.5
NON BID ITEMS										
ALUMINUM OR ZINC PLATE	SF.	34	—	—	—	—	—	—	—	34
FILLER	SIZE	—	—	—	—	—	—	—	—	74

* INCLUDES WEIGHT OF BRONZE WASHERS.

REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN
	TOTAL ESTIMATED QUANTITIES
DESIGN SPEC. AASHTO 41	LOADING MOD 1963
DATE: 11/7/63	DESIGN: BHM DRAWING: 72
STRUCTURE B-32-35	SHEET 2 OF 15

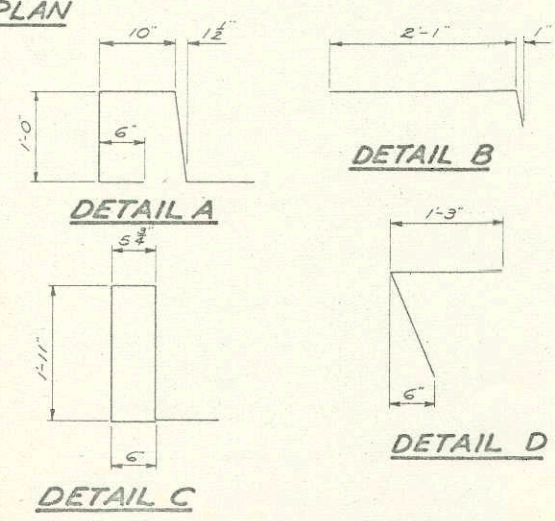


BILL OF BARS 177,350 #S

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

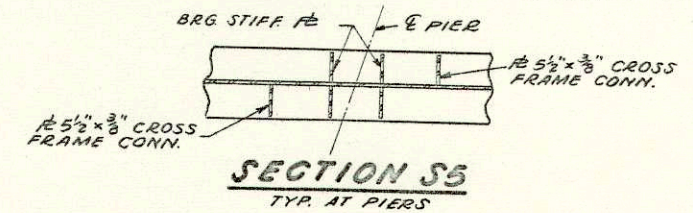
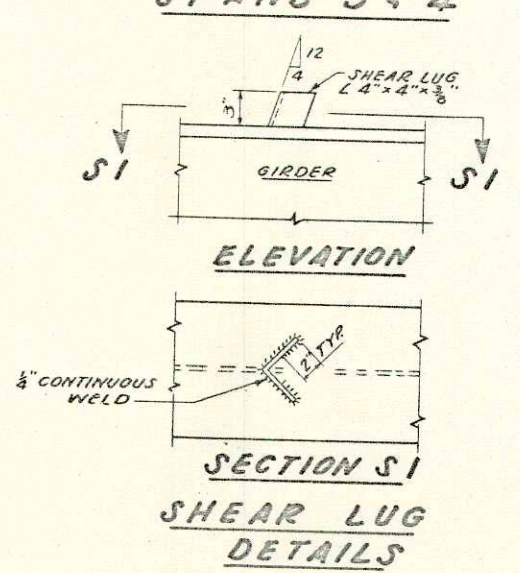
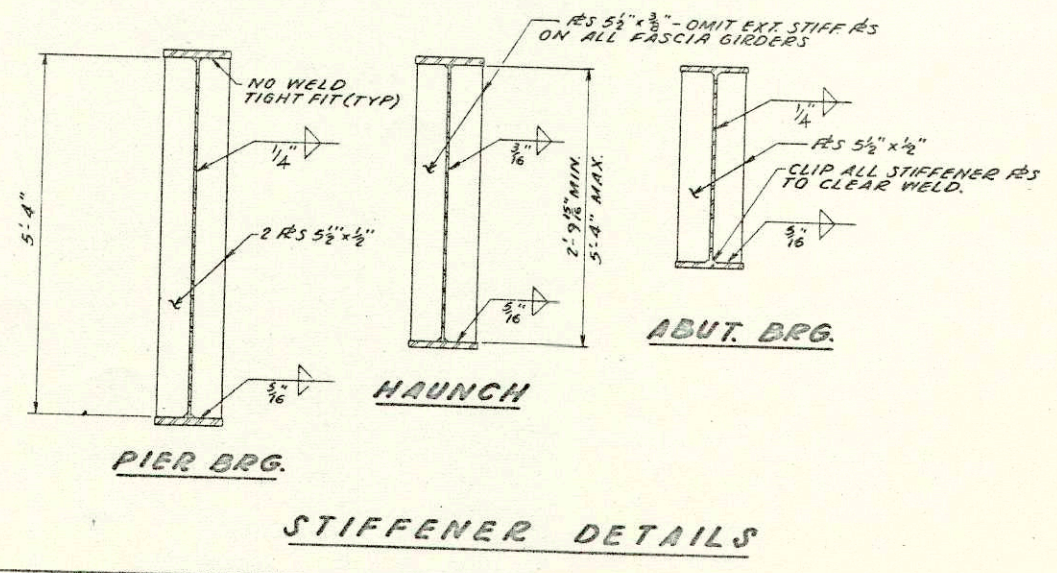
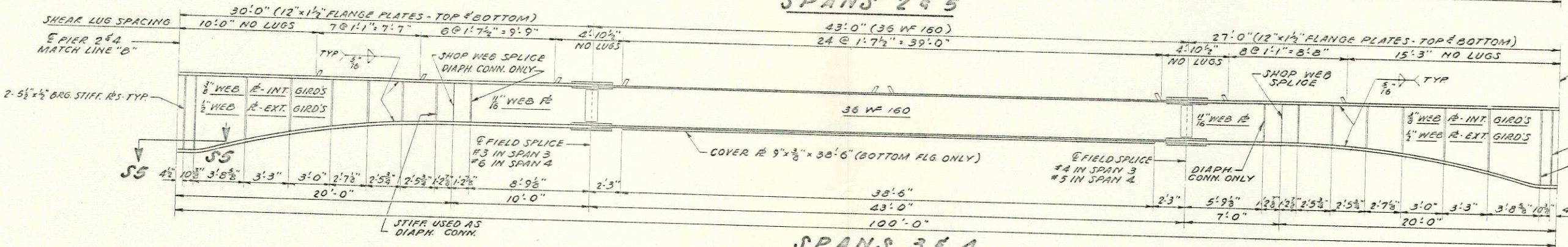
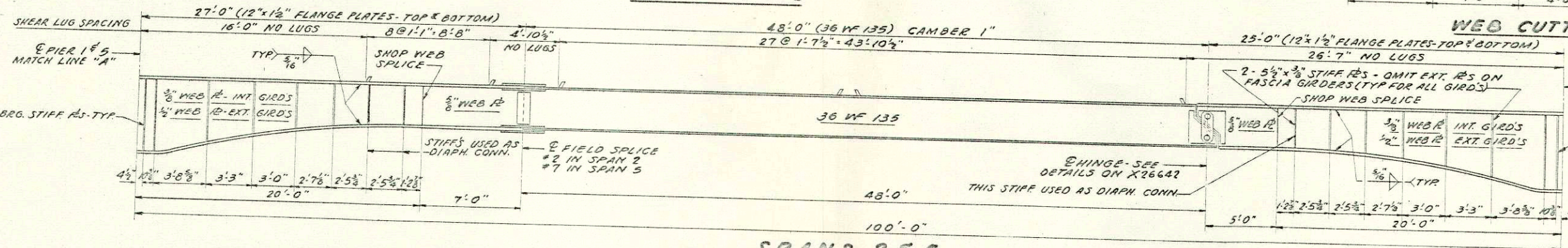
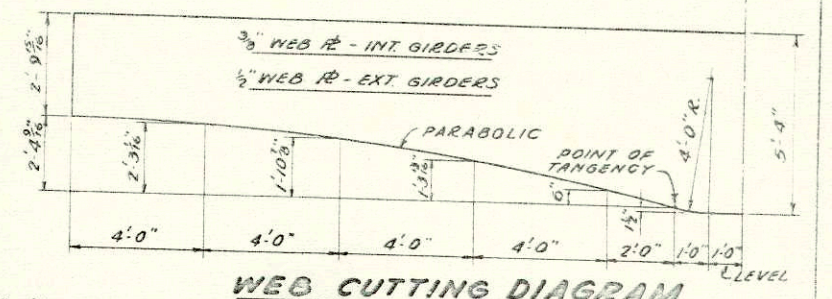
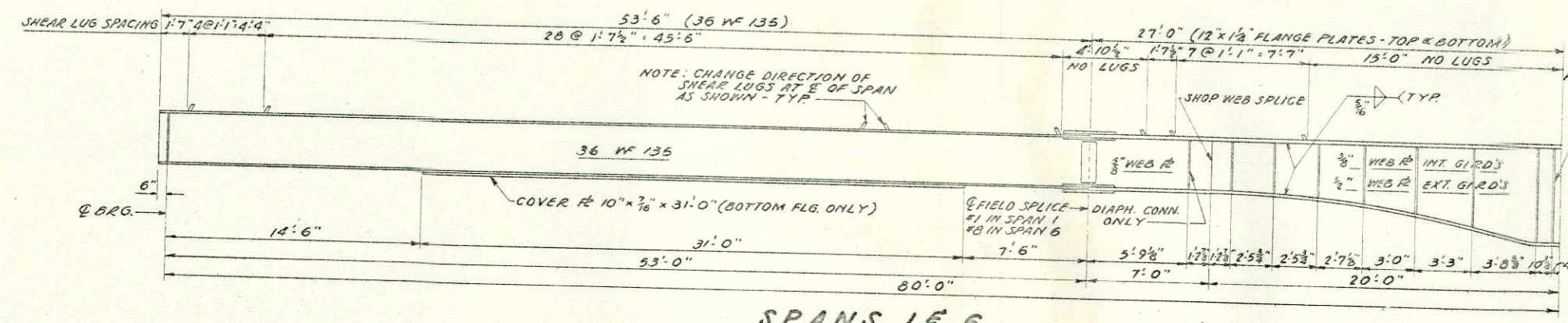
POUR MARK	NO	SIZE	LENGTH	SPACING	LOCATION	DET
S1	2063	6	33-9	6 1/2	SLAB-TRANS-TOP & BOTTOM	
S2	280	5	32-3	SHOWN	-LONG-TOP-END SECTION	
S3	196	5	37-3	"	-MIDDLE SECTION	
S4	420	5	32-3	"	-BOTTOM-END SECTION	
S5	294	5	37-3	"	-MIDDLE SECTION	
S6	50	5	15-0	"	-TOP-SYM ABOUT PIERS	
S7	1122	5	4-3	1-0	CURB-TRANS	A
S8	1122	6	2-6	1-0	"	B
S9	60	6	28-3	6	-LONG-LOCATION SHOWN ON HALF PLAN	
S10	60	6	26-0	6	"	
S11	20	6	25-3	6	"	
S12	60	6	34-3	6	"	
S13	1122	5	5-6	1-0	& RAIL PARAPET	C
S14	8	4	6-9	SHOWN	DIAPHRAGM @ ABUT.	
S15	40	5	2-9	1-6	"	D

POUR MARK	NO	SIZE	LENGTH	SPACING	LOCATION
R1	32	5	12-0	SHOWN	RAILING PARAPET
R2	32	5	22-9	"	"
R3	64	5	22-3	"	"
R4	16	5	23-0	"	"
R5	32	5	15-0	"	"
R6	16	5	19-9	"	"
R7	16	5	13-0	"	"
R8	16	5	16-6	"	"
R9	16	5	14-9	"	"

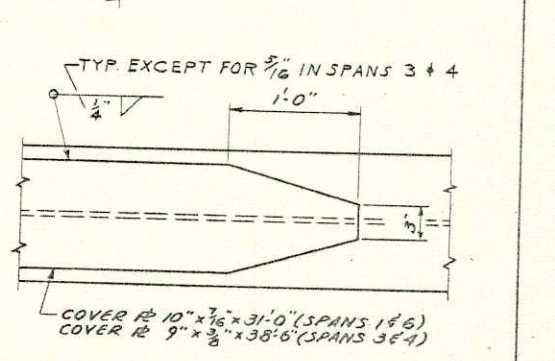


FLOOR DRAIN SPACING FOR SPANS 4, 5 & 6 THE SAME AS SHOWN ABOVE. NORTH CURB ONLY. DRAIN SPACING MAY BE ALTERED TO MISS STIFFENER R'S IF NECESSARY.

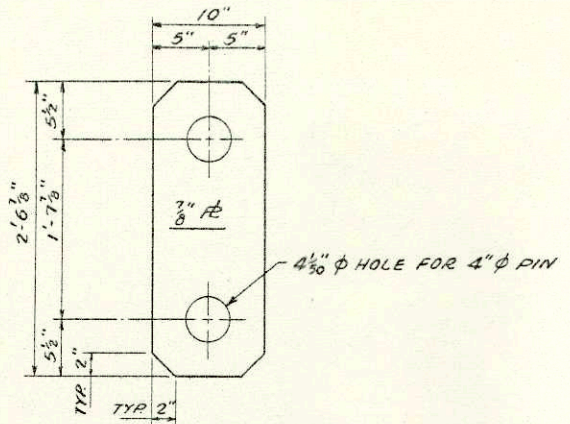
REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	SUPERSTRUCTURE
	DESIGN SPEC. AASHO 61 LOADING W20-316 (CONST. 1963) M100. SPEC.
	DATE 1-17-63 DESIGN B.M. DRAWN BY C.R.D.
STRUCTURE B-32-35	SHEET 3 OF 15



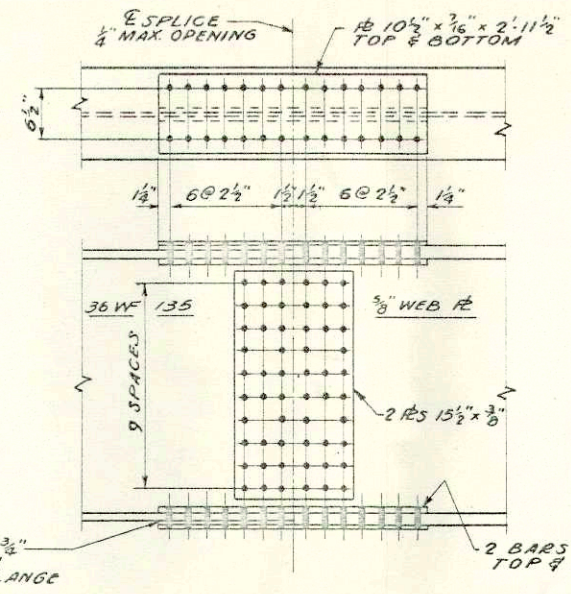
- NOTES:**
- DETAILS OF SHOP WEB SPLICES SHALL BE SHOWN ON THE SHOP DRAWINGS.
 - HINGE DETAILS AND FIELD SPLICE DETAILS ARE SHOWN ON SHEET X26642.
 - CAMBER 36 WF 135 1" IN SPANS 2 AND 5 ONLY. CAMBER SHALL CONFORM TO AN ARC OF A CIRCLE.



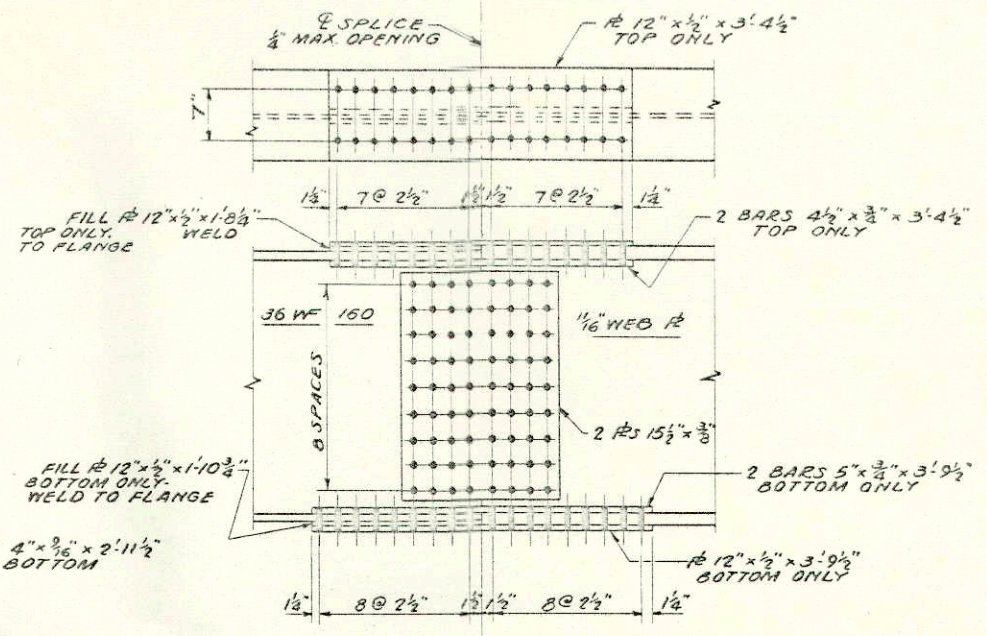
PROJECT	SHEET NO.	TOTAL SHEETS
I-90-8(2)	26	36
275		



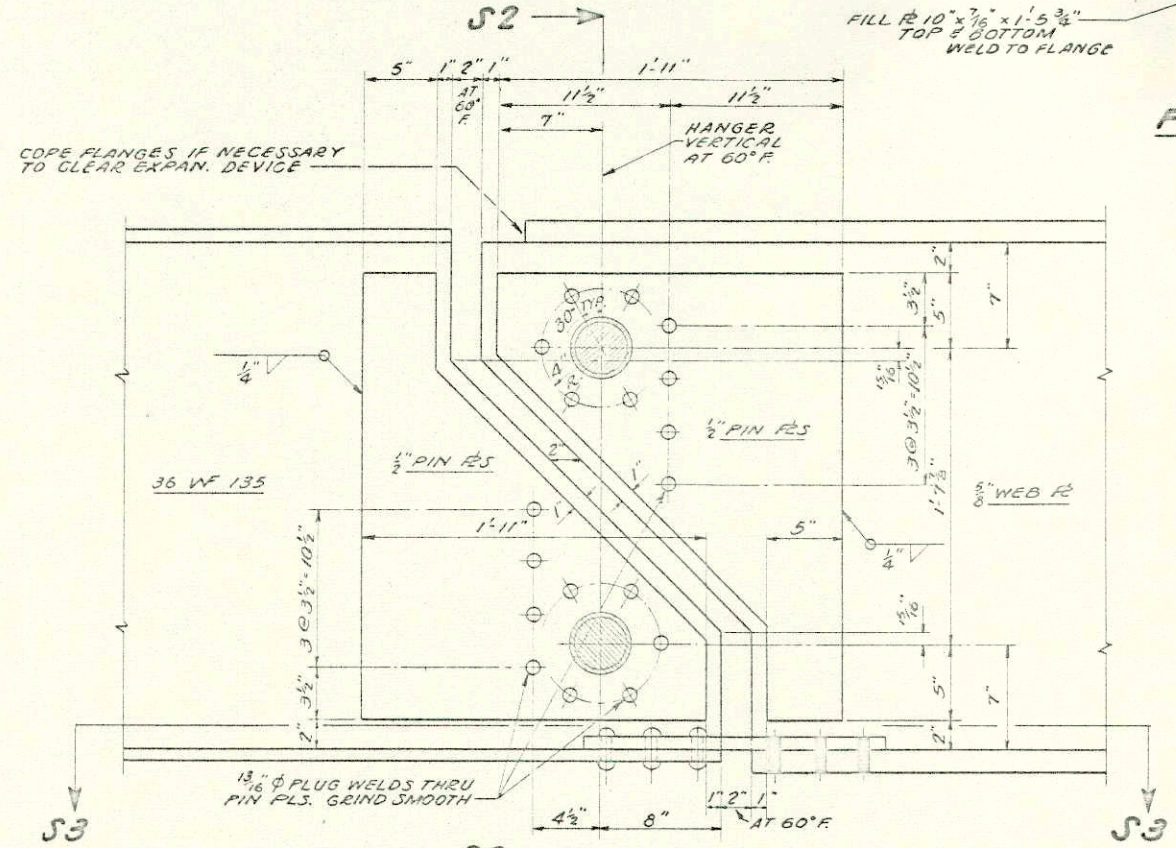
HANGER PLATE
2 REQ'D PER HINGE



FIELD SPLICE 1, 2, 7 & 8

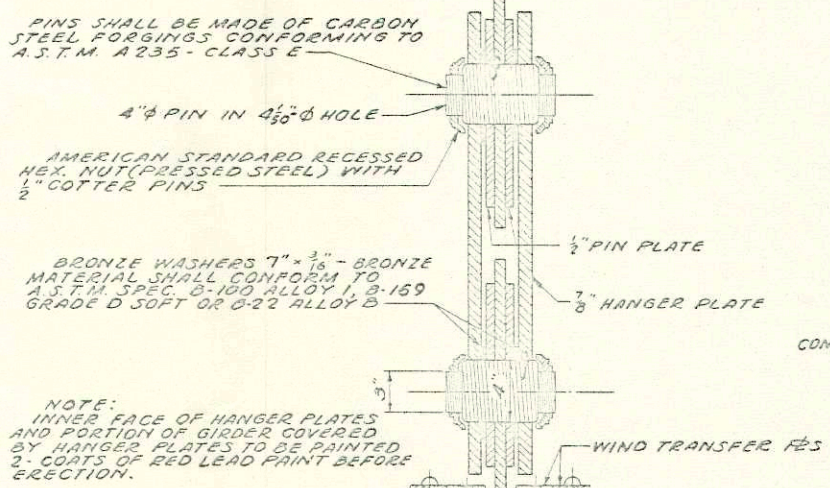


FIELD SPLICE 3, 4, 5 & 6

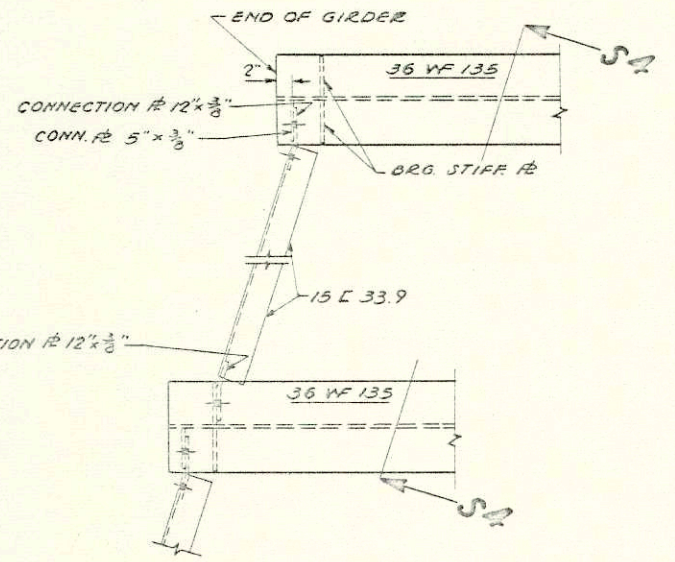


HINGE DETAIL
HANGER PLATES NOT SHOWN

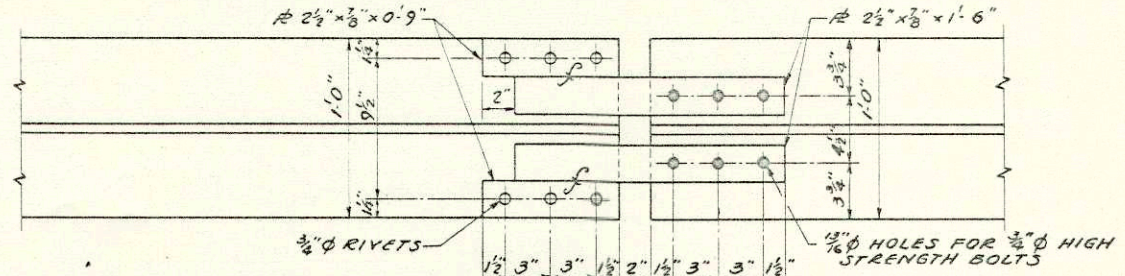
NOTE: ALL FIELD SPLICE CONNECTIONS SHALL BE MADE WITH 3/4" HIGH TENSILE STRENGTH BOLTS.



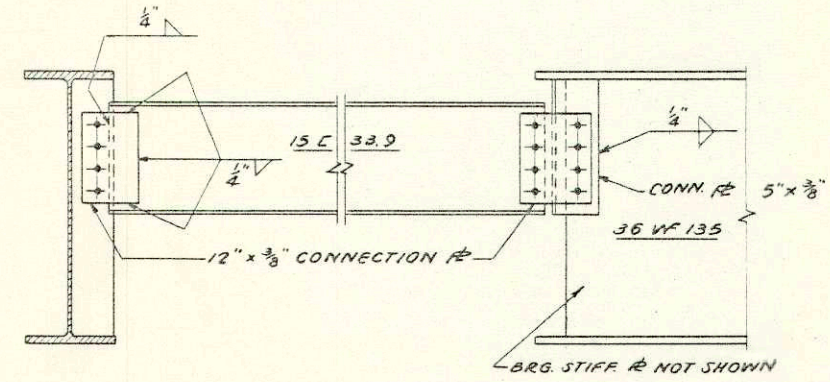
SECTION S2



PLAN OF CHANNEL CONNECTION AT ABUTMENTS



SECTION S3
TYPICAL AT ALL HINGE LOCATIONS



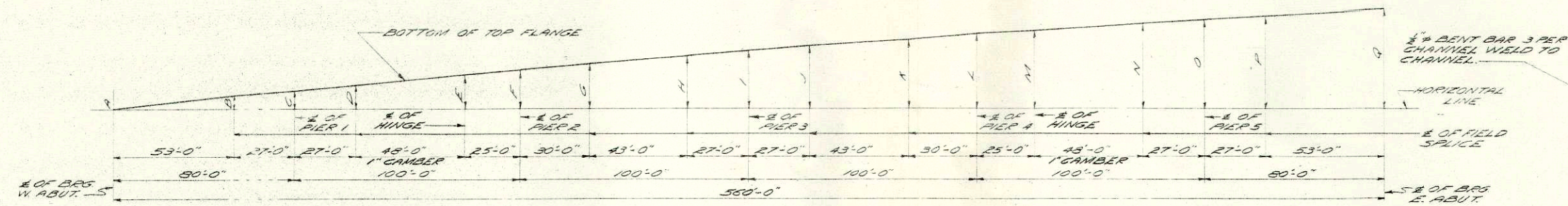
SECTION S4

REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN
	GIRDER DETAILS
DESIGNED BY A.A.S.H.O. '61	H20.516
DATE 1-17-63	D. M. T.T.M. 1963
STRUCTURE B-32-35	SHEET 5 OF 15

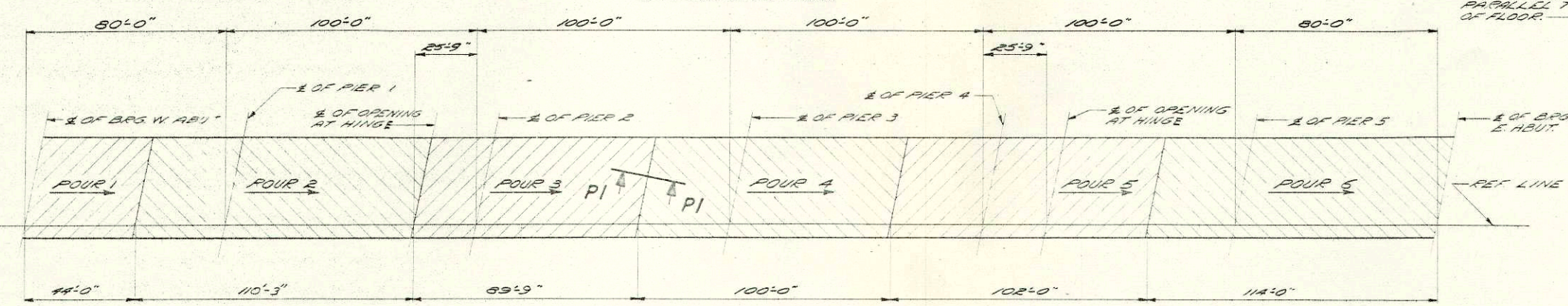
X26642

E-50-8(2) 27 56
275

LOCATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
GIRDER 5	0	0'-3 1/2"	0'-4 1/2"	0'-5 1/2"	0'-8 1/2"	0'-10"	0'-11 1/2"	1'-1 1/2"	1'-2 1/2"	1'-4"	1'-5 1/2"	1'-7 1/2"	1'-8 1/2"	1'-9 1/2"	1'-10 1/2"	1'-11 1/2"	2'-1 1/2"
GIRDER 4	0	0'-3 1/2"	0'-4 1/2"	0'-5 1/2"	0'-8 1/2"	0'-10"	0'-11 1/2"	1'-1 1/2"	1'-2 1/2"	1'-4"	1'-5 1/2"	1'-7 1/2"	1'-8 1/2"	1'-9 1/2"	1'-10 1/2"	1'-11 1/2"	2'-1 1/2"
GIRDER 3	0	0'-3 1/2"	0'-4 1/2"	0'-5 1/2"	0'-8 1/2"	0'-10"	0'-11 1/2"	1'-1 1/2"	1'-2 1/2"	1'-4"	1'-5 1/2"	1'-7 1/2"	1'-8 1/2"	1'-10"	1'-10 1/2"	1'-11 1/2"	2'-1 1/2"
GIRDER 2	0	0'-3 1/2"	0'-4 1/2"	0'-5 1/2"	0'-8 1/2"	0'-10"	0'-11 1/2"	1'-1 1/2"	1'-2 1/2"	1'-4"	1'-5 1/2"	1'-7 1/2"	1'-8 1/2"	1'-10 1/2"	1'-11 1/2"	1'-11 1/2"	2'-1 1/2"
GIRDER 1	0	0'-3 1/2"	0'-4 1/2"	0'-5 1/2"	0'-8 1/2"	0'-10"	0'-11 1/2"	1'-1 1/2"	1'-2 1/2"	1'-4"	1'-5 1/2"	1'-7 1/2"	1'-8 1/2"	1'-10 1/2"	1'-11 1/2"	2'-0"	2'-1 1/2"



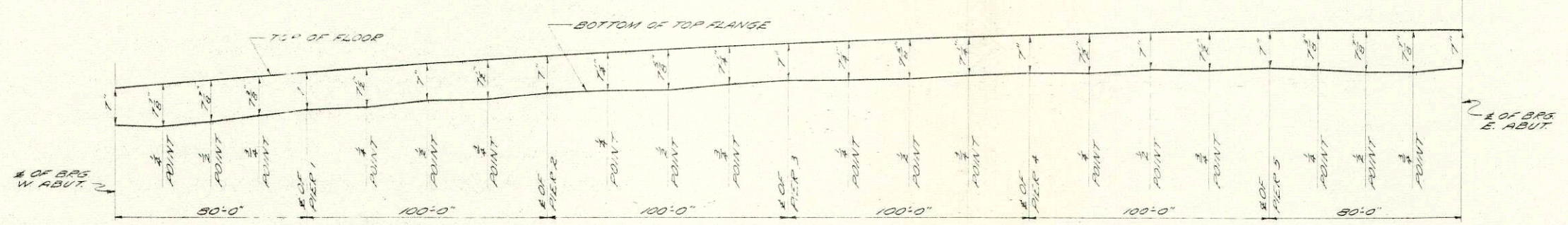
BLOCKING DIAGRAM



POURING DIAGRAM

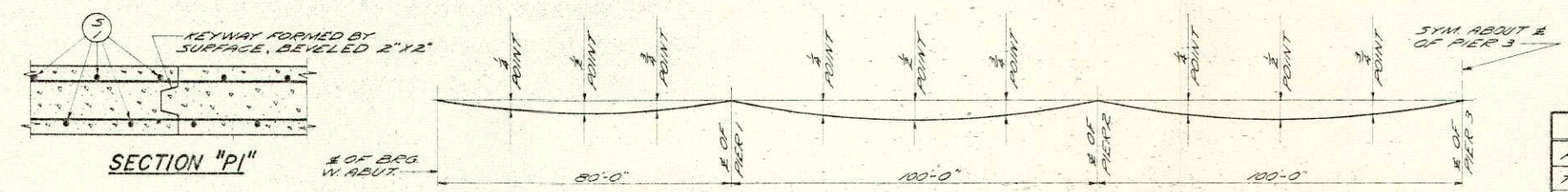
NOTE: TWO OR MORE POURS MAY BE COMBINED AND TRANS. CONST JOINTS OMITTED IF THE ENTIRE POUR IS MADE IN A CONTINUOUS 10HR. PERIOD.

IF REQUIRED THE POURS MAY BE REVERSED.

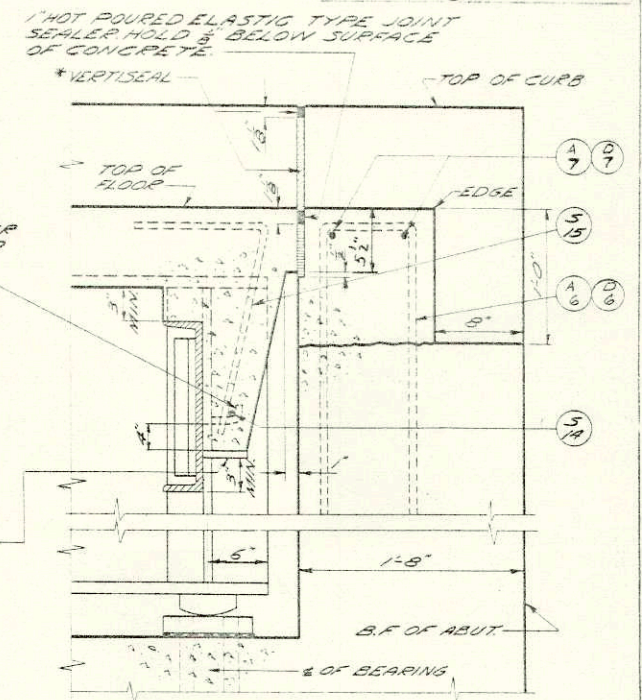


FORMING DIAGRAM

SLAB THICKNESS FIGURES SHOWN ARE THEORETICAL AND ARE SUBJECT TO CORRECTION TO MEET VARIABLE FIELD CONDITIONS.

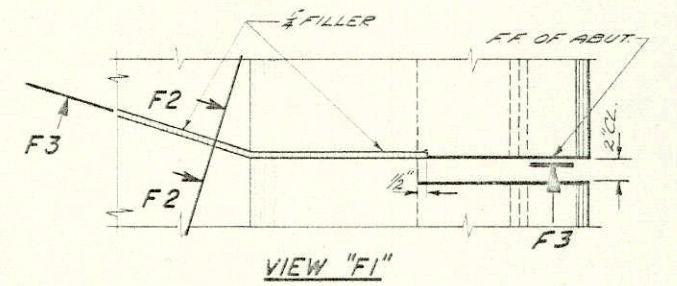


DEFLECTION DIAGRAM

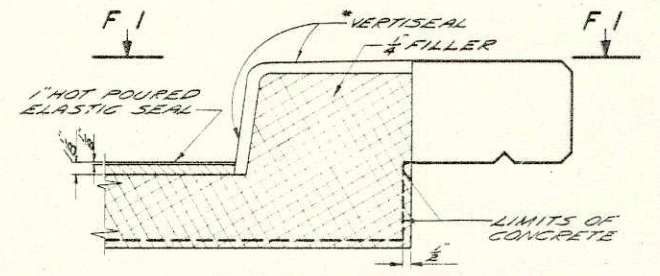


SECTION "F2" AT ABUTMENTS

*SEAL CURB JOINT WITH BLACK GOLD APPLIED JOINT SEALER "VERTISEAL" AS MANUFACTURED BY THE SERVICISED PRODUCTS CORP. OF CHICAGO, ILL. OR AN APPROVED EQUAL.



VIEW "F1"

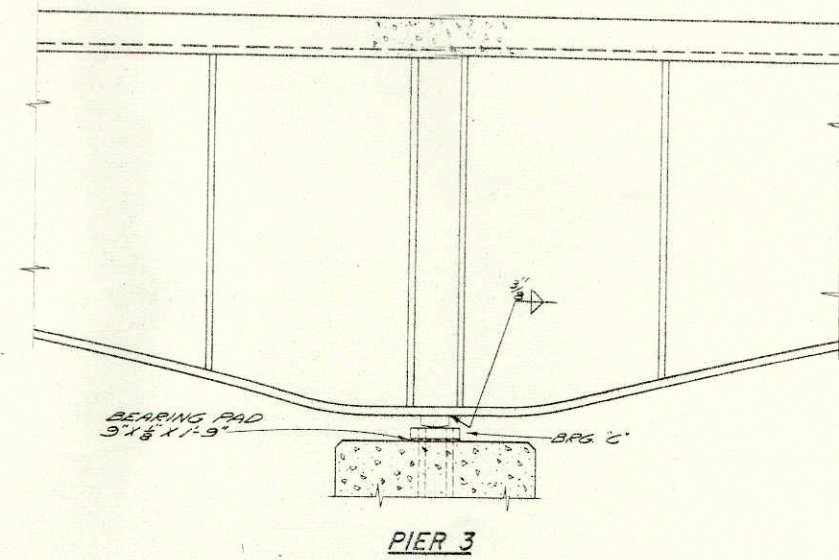
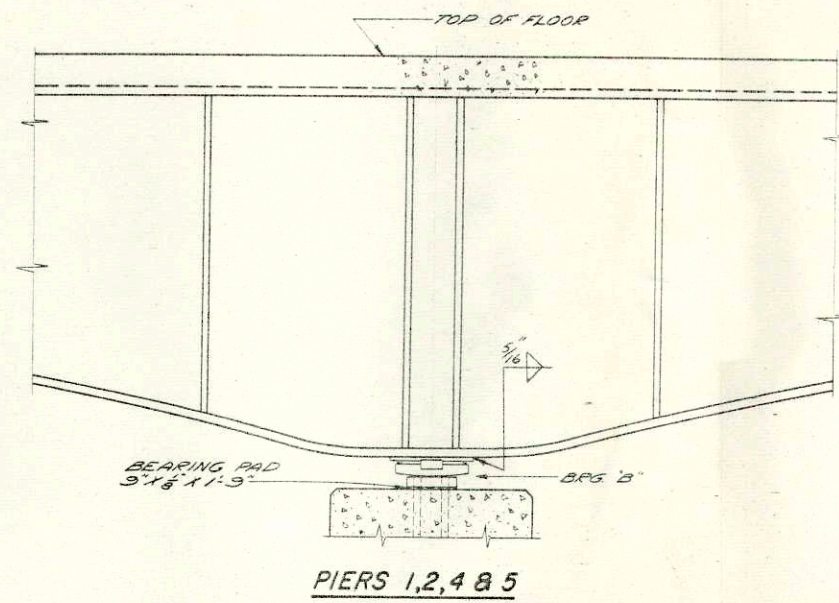
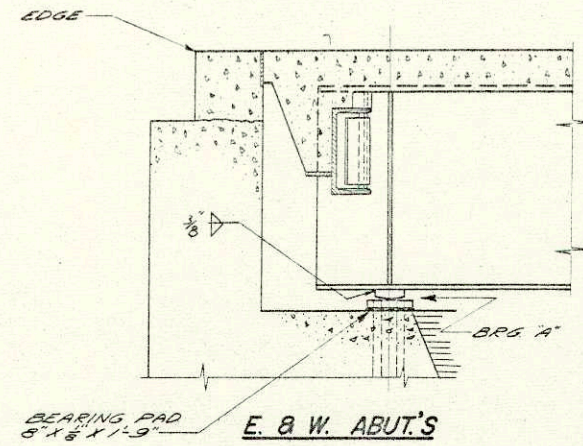


SECTION "F3" THRU CURB AT FILLER

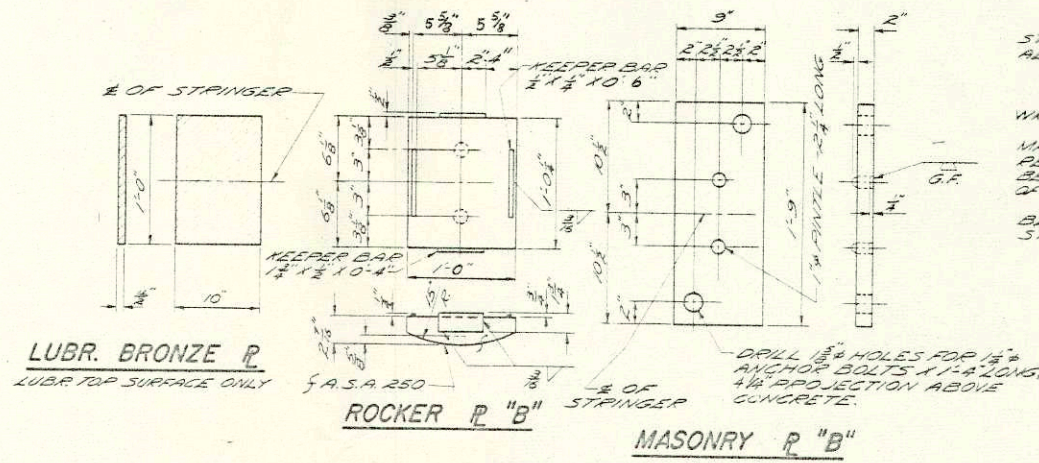
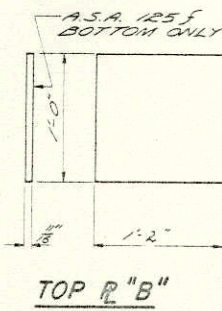
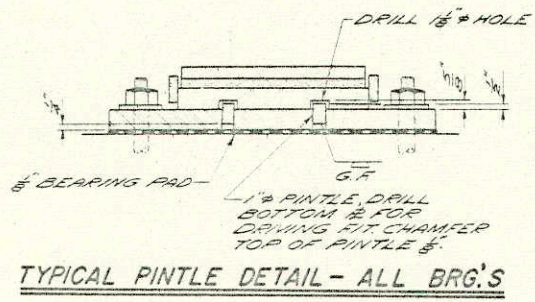
DEAD LOAD DEFLECTIONS

	SPAN 1		SPAN 2		SPAN 3	
POINT	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
TOTAL DL	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
CONC ONLY	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"

STATE HIGHWAY COMMISSION OF WISCONSIN
POURING, FORMING & BLOCKING DIAGRAMS
 A.A.S.H.O. 61
 1953
 STRUCTURE B-32-35 SHEET 6 OF 15

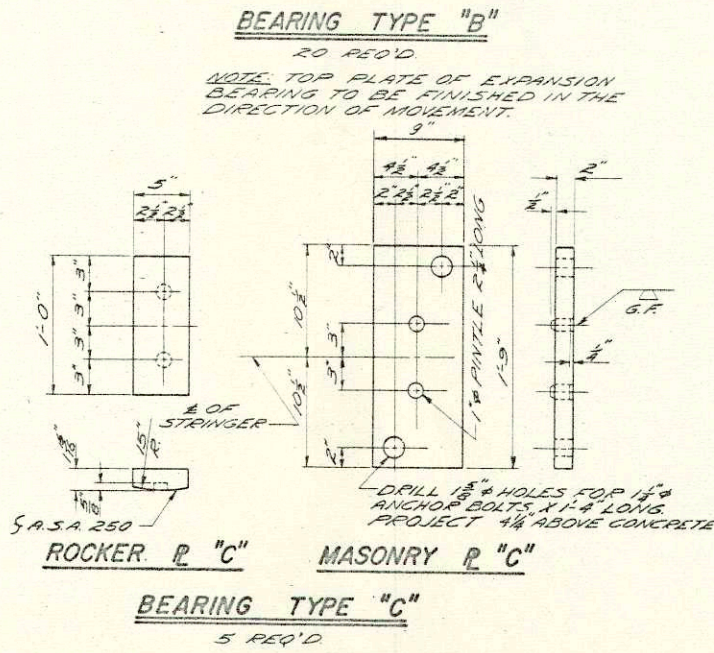
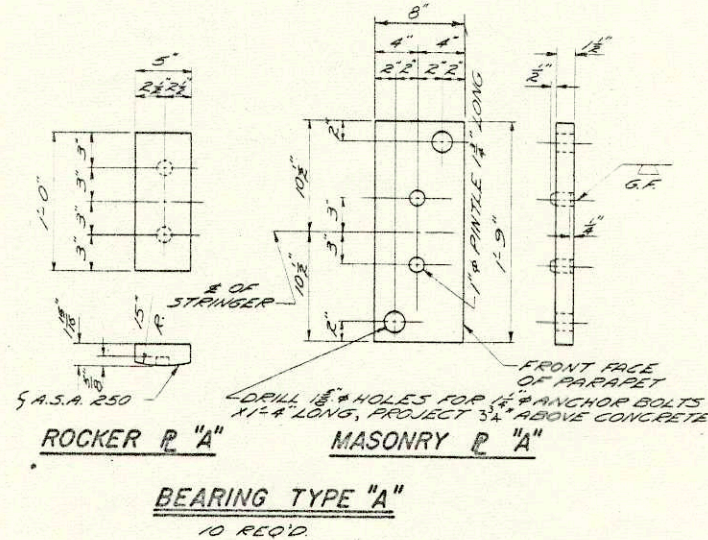


LONGITUDINAL SECTION

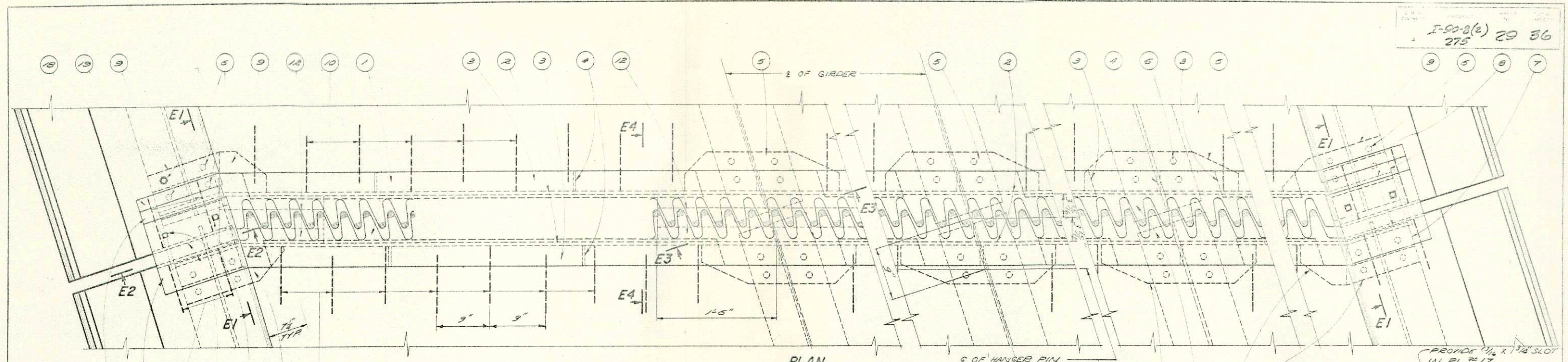


GENERAL NOTES

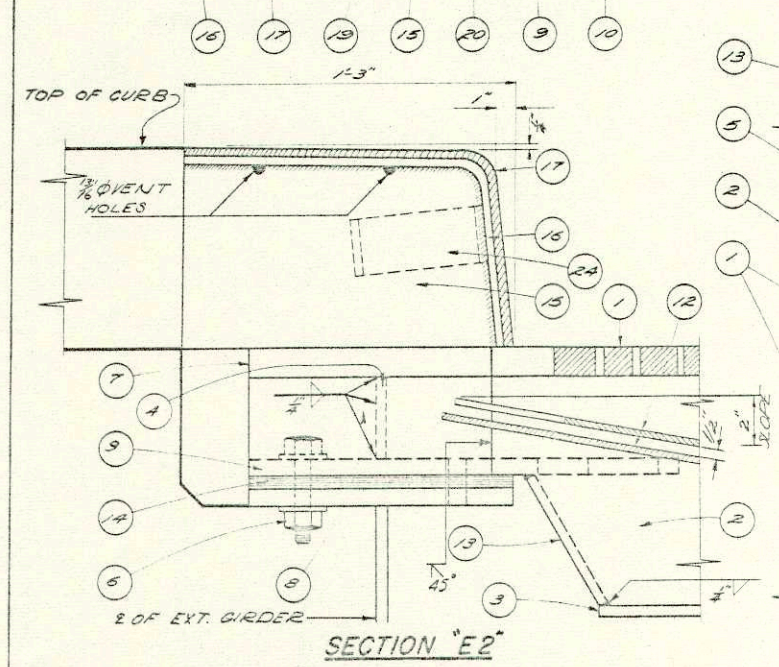
ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH & FREE FROM WARP & ALL EDGES SMOOTH STRAIGHT & VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS. ALL SURFACES MARKED 'F' SHALL BE MACHINE FINISHED. ANCHOR BOLTS SHALL BE THREADED 3", PROVIDE ONE 1/4" STANDARD WROUGHT WASHER & ONE HEX NUT PER BOLT. ALL MATERIAL EXCEPT ANCHOR BOLTS, NUTS & WASHERS SHALL BE MADE OF COP-10% NI, MAYARI P OR OTHER STEEL OF EQUAL COMPOSITIVE RES. STAINCE. THE KEEPER BARS & PINTLES MAY BE MADE OF COPPER BEARING STEEL OR STEEL CONFORMING TO A.S.T.M. A 441. THE TOP 4/8" OF ANCHOR BOLTS, WASHERS & NUTS SHALL BE GALVANIZED. ALL MATERIAL IN BEARINGS, EXCEPTING BRONZE PLATES & BEARING PADS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR STRUCTURAL LOW ALLOY STEEL.



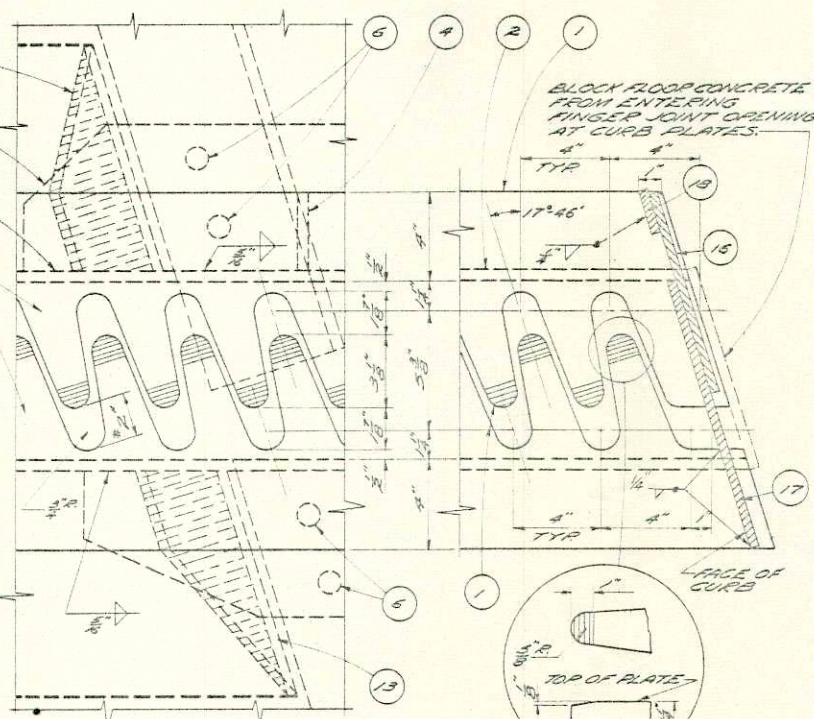
REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
LONG. SECTION & BEARINGS	
DESIGNED BY AASHO 61	MOD. 1963
DRAWN BY J.M.	APR 63
STRUCTURE B-32-35	SHEET 7 OF 15



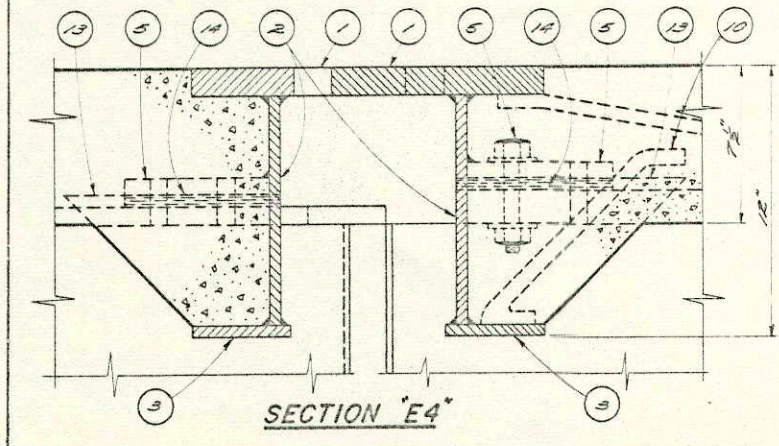
PLAN



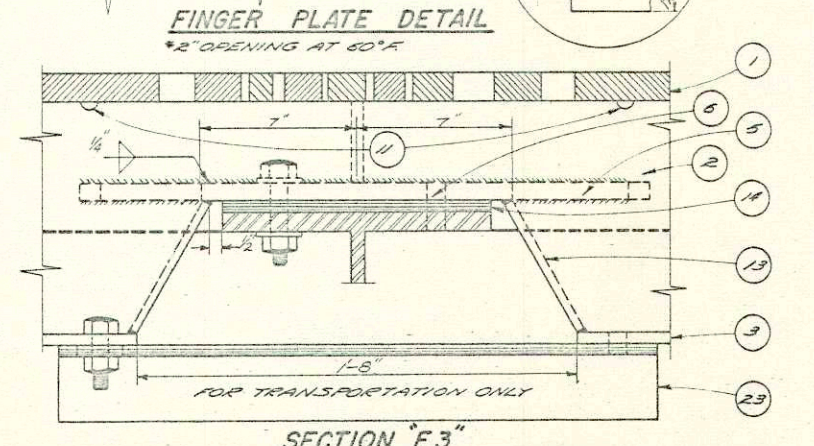
SECTION "E2"



FINGER PLATE DETAIL



SECTION "E4"



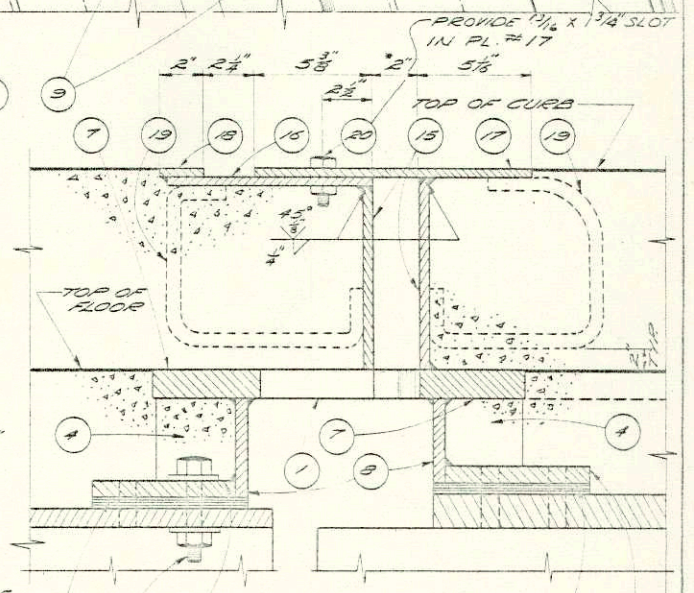
SECTION "E3"

LEGEND

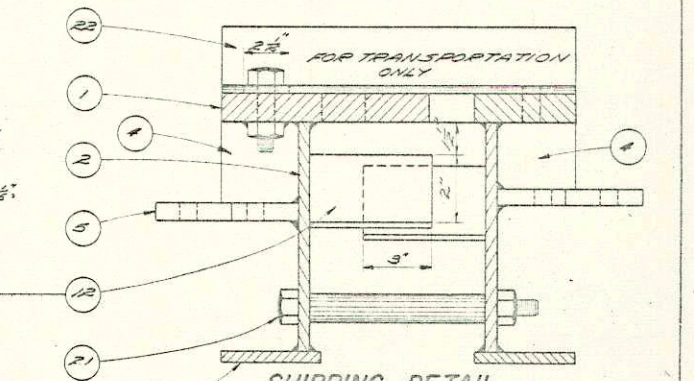
- ** 1) FINGER PLATE 1/2" x 1 1/2"
- ** 2) WEB PLATE 10 1/2" x 7" - 5" FILLET WELD NEAR FAR SIDES TO FLANGE PLATE (12) & FINGER PLATE (1)
- 3) FLANGE PLATE 4 1/2" x 5 1/2" @ E OF GIRDERS AND 3" SPACED BETWEEN GIRDERS; 1" FILLET WELD ALL AROUND SHIP CORNERS IN WAY OF WELDS.
- 4) SHAPED PLATE 2-1/2" x 6 1/2" x 1/2" x 1/2" FILLET WELD TO WEB PLATE (2) AS SHOWN.
- 5) 3/8" BOLTS FOR 1/2" HOLES IN PLATE (4) & SHIP CORNERS (1)
- 6) PLATE 11" x 1/2" x 1/2" - DOUBLE VEE WELD TO FINGER PLATE (1)
- ** 7) 1/8" WEB PLATE - FILLET WELD NEAR FAR SIDES TO PLATE (17) AS SHOWN.
- 8) 1/4" SHAPED PLATE - CUT TO FIT - 5" FILLET WELD TO WEB PLATES (7) & (17) AS SHOWN.
- 9) ANCHOR BAR 3" x 3" EXTENDED INTO FLOOR 1'-0" @ 2'-0" ALTERNATE CENTERS.
- 10) 1/2" VENT HOLES @ 2'-0" CENTERS.
- ** 11) SHAPED PLATES 5 1/2" x 1/2" - 1" FILLET WELD TO NEAR END SIDES OF WEB PLATE (2).
- 12) SHAPED PLATE
- 13) LAMINATED SHIMS (2" MIN)
- 14) PLATE CUT TO CURB LIMITS AS SHOWN.
- ** 15) PLATE 3 1/2" x 1/2" BENT DOWN FLUSH WITH FACE OF CURB AS SHOWN, WELD TO PLATE (14)
- ** 17) PLATE 12 1/2" x 1/2" BENT DOWN FLUSH WITH FACE OF CURB AS SHOWN, FIELD WELD TO FINGER PLATE (1)
- ** 18) PLATE 2 1/2" x 1/2" BENT DOWN FLUSH WITH FACE OF CURB AS SHOWN, WELD TO PLATE (15) & FIELD WELD TO FINGER PLATE (1)
- 19) 1/2" BENT BARS 1-1/2" LONG WELD TO PLATES (15), (16) & (17)
- 20) TEMPORARY BOLTS 1/2" REMOVED AFTER CONCRETE IS IN PLACE AND FILL HOLES WITH HOT APPLIED PLASTIC TUBE JOINT SEALER.
- 21) BLOCK & BOLT FOR SHIPMENT WITH PLATE SLEEVE & BOLT. PROVIDE 1/2" HOLES IN WEB @ 2.5'-0" CENTERS FOR 1/2" BOLTS.
- 22) 4 1/2" x 3 1/2" x 1/2" - SLOT ONE END OF 1/2" x 1/2" x 1/2" SHIM PARALLEL TO SHIP, TWO 1/2" BOLTS REQUIRED PER 1/2" SHIM. WELD TO UNDER SIDE OF FINGER PLATE. USE 5 PER JOINT.
- 23) 2 1/2" x 3 1/2" - SLOT ONE END OF 1/2" x 1/2" x 1/2" AS SHOWN, PARALLEL TO SHIP, TWO 1/2" BOLTS REQUIRED PER 1/2" SHIM. PROVIDE 1/2" HOLES IN PLATE (15) & (17) @ 2'-0" CENTERS PER JOINT.
- 24) ANCHOR BAR 2 1/2" x 1/2" x 1'-0" WELD TO PLATES (15) & (17).

PLACE SYM ABOUT E OF INTER. GIRDERS - SLOPE BOTHWAYS

NOTE: ITEMS MARKED ** SHALL BE MADE OF CORTEN, A588, A572 OR OTHER STEEL OF EQUAL COMPOSITIVE RESISTANCE.
ALL MATERIAL IN EXPANSION JOINT SHALL BE PAID FOR AS STRUCTURAL LOW ALLOY STEEL. EXPANSION JOINT SHALL BE BUILT TO CONFORM TO EDWY. CROWN AND GRADE.



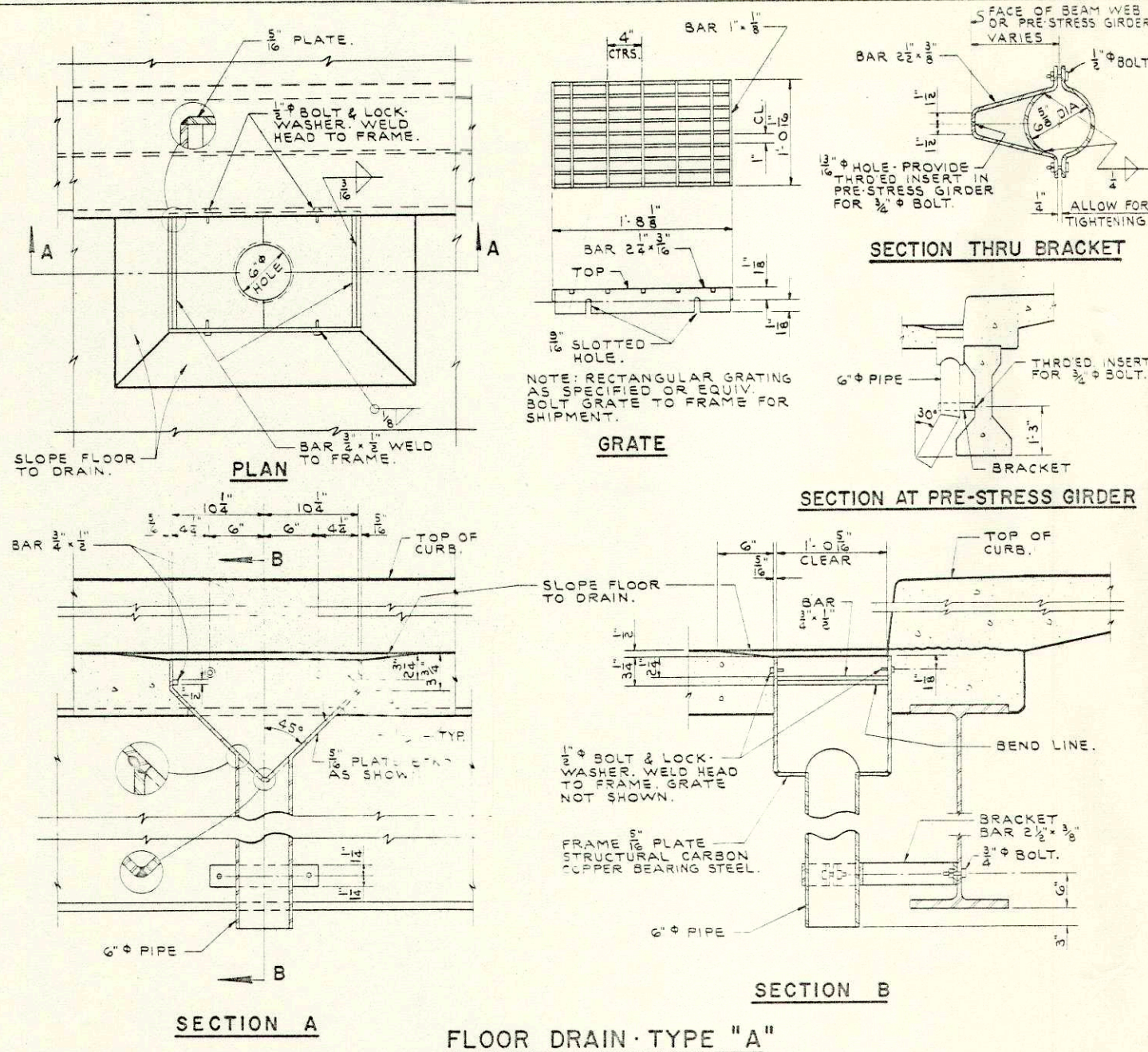
SECTION "E1"



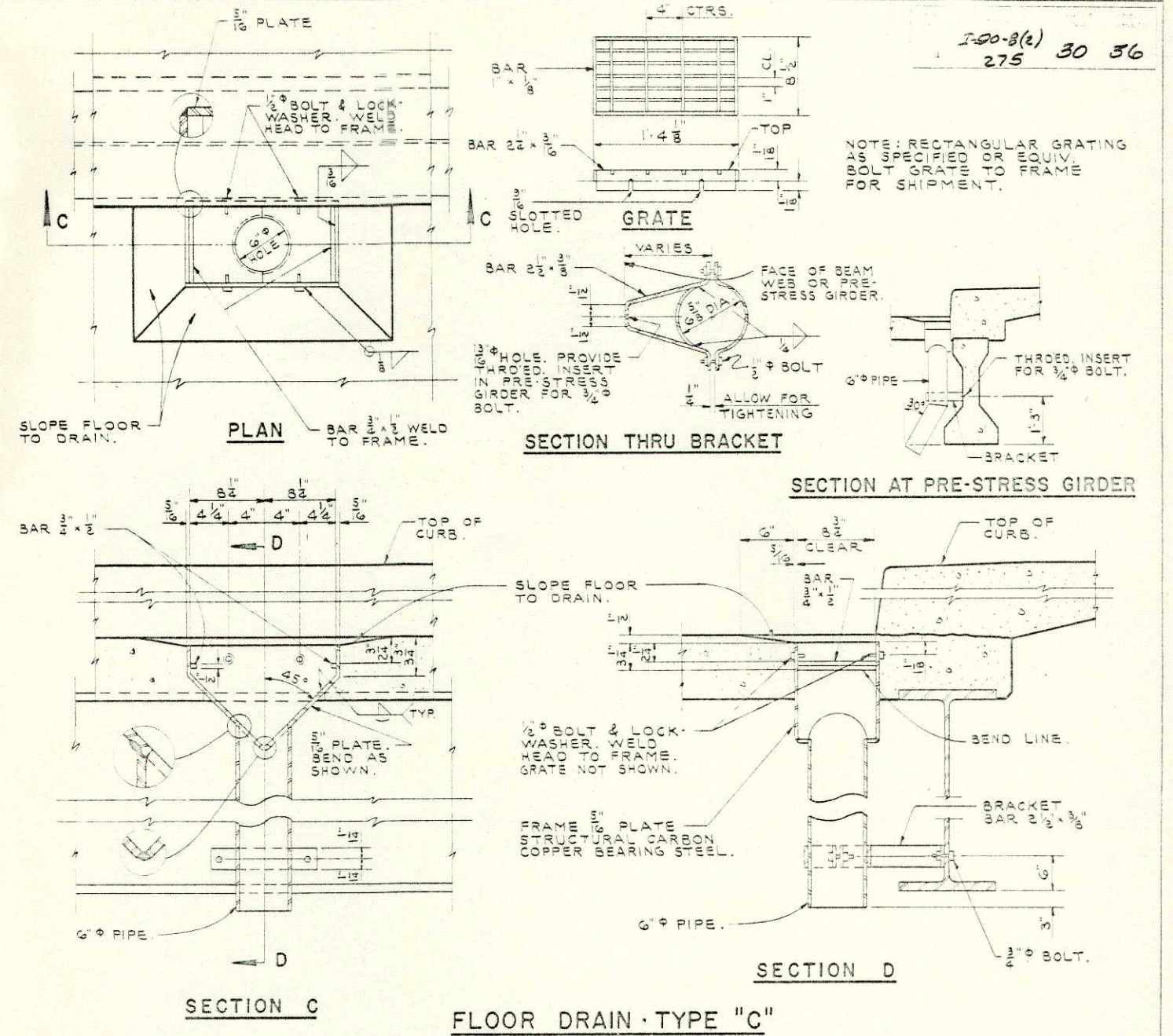
SHIPPING DETAIL

ALSO SEE SECTION "E3"

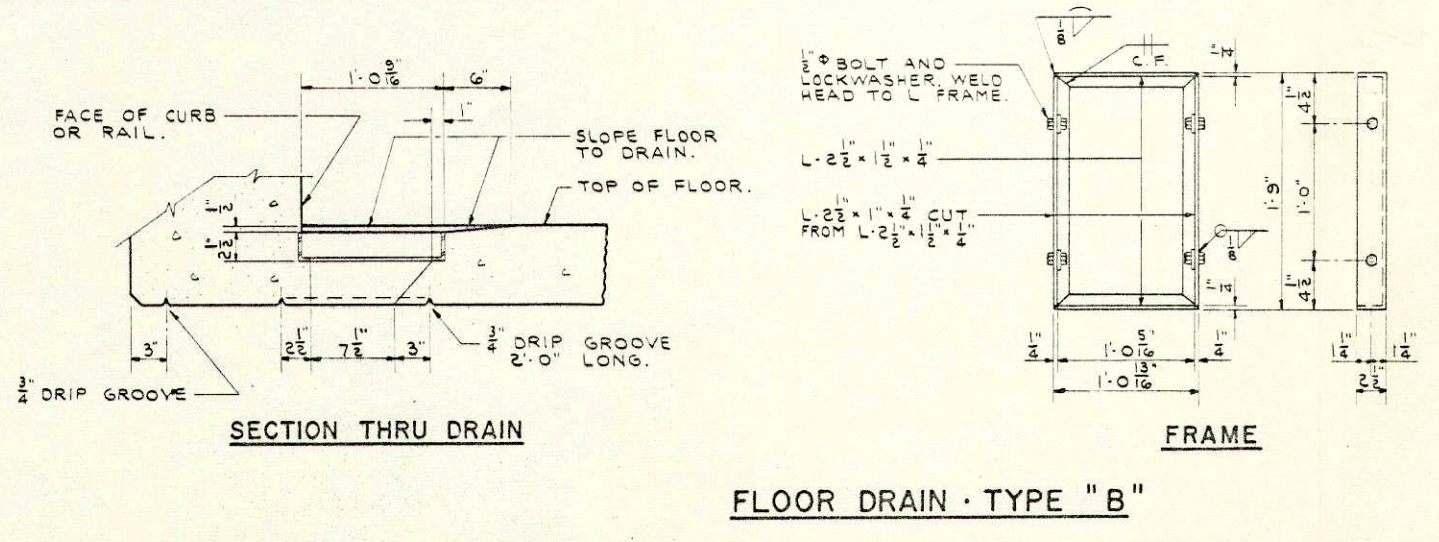
REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
EXPANSION JOINTS	
DESIGN SPEC. A.A.S.H.O. 61	LOADING HARD-5/16" CONST. 1963
DATE: 11-63	MOD. MOD.
DRAWN: J.M.	CHECKED: P.P.V.
STRUCTURE B-32-35	SHEET 8 OF 15



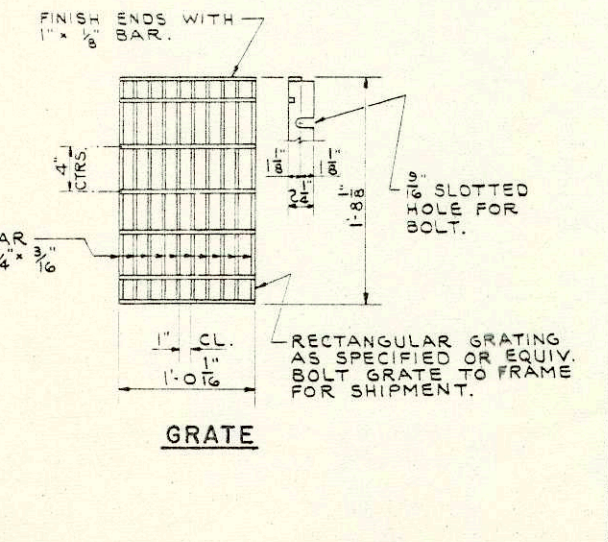
FLOOR DRAIN TYPE "A"



FLOOR DRAIN TYPE "C"



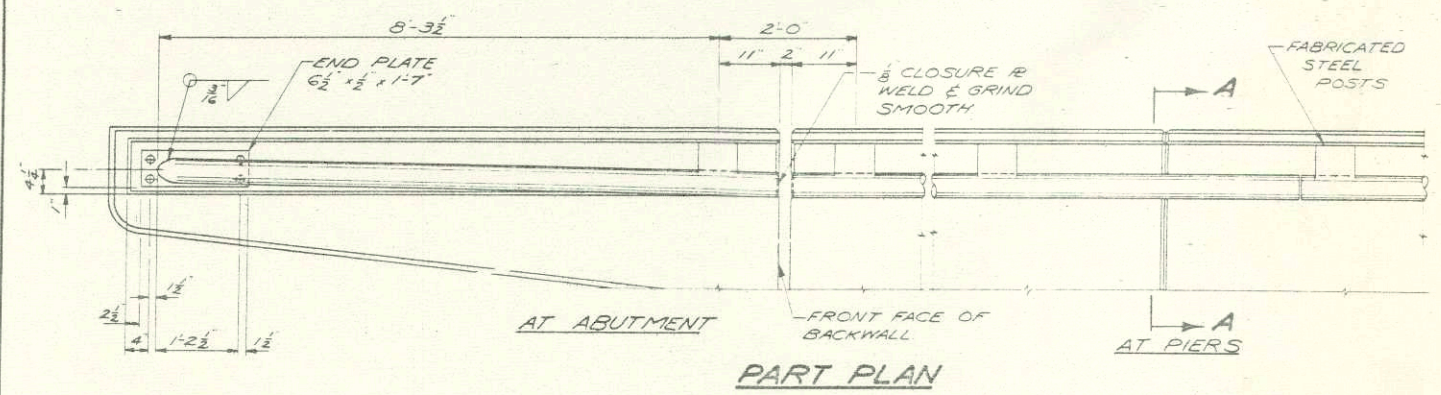
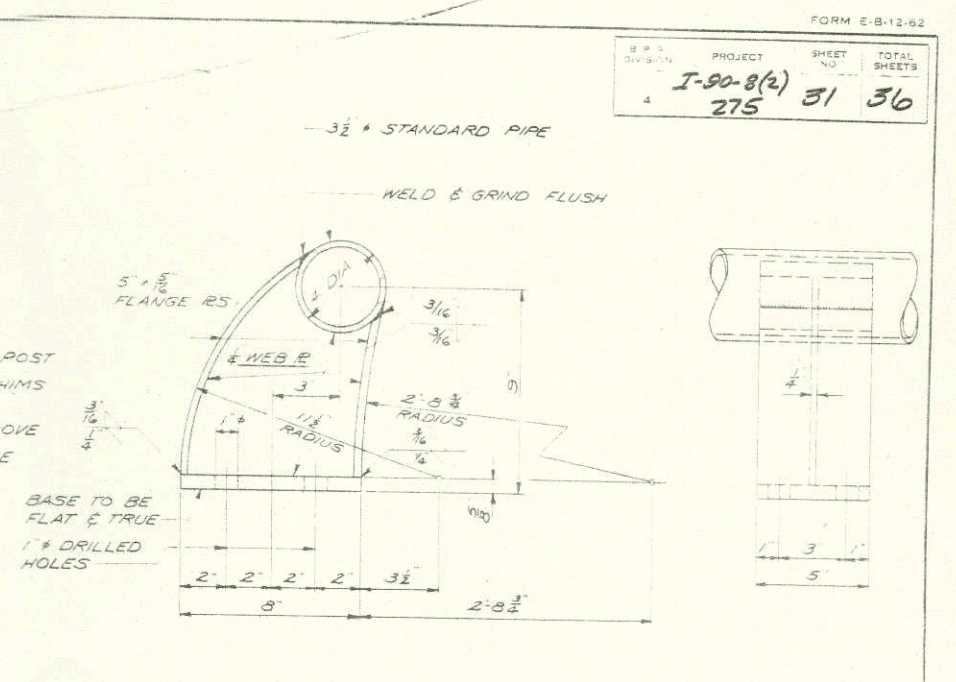
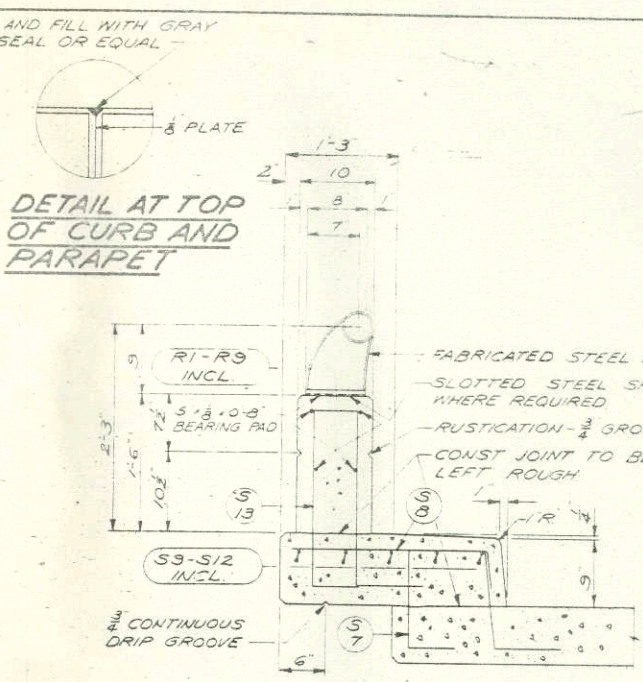
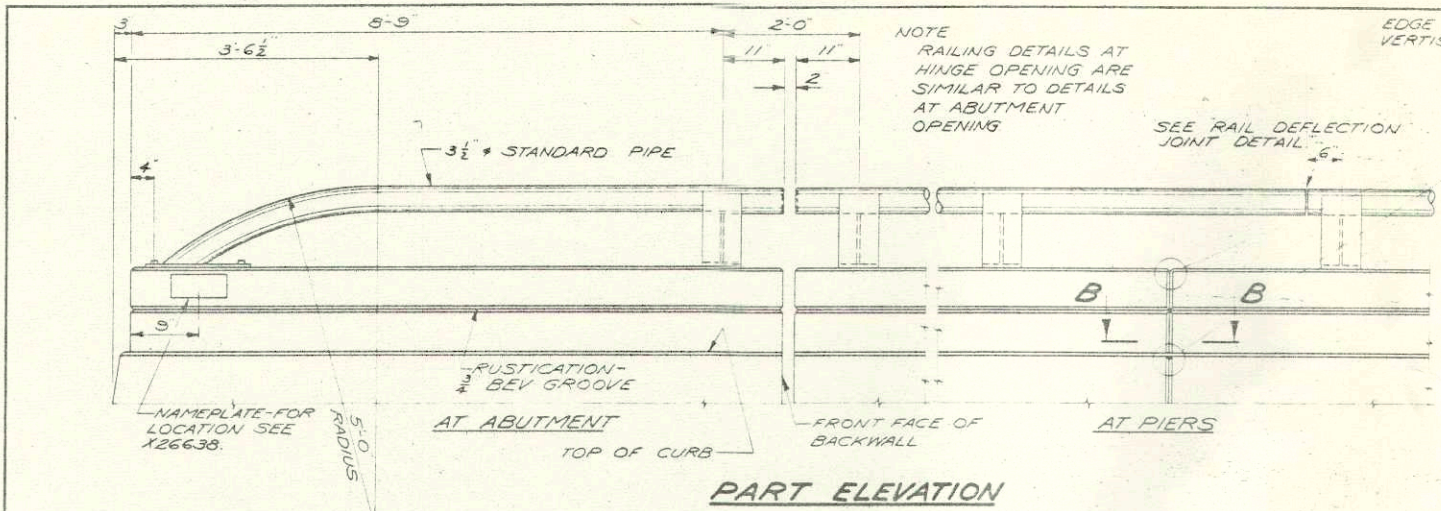
FLOOR DRAIN TYPE "B"



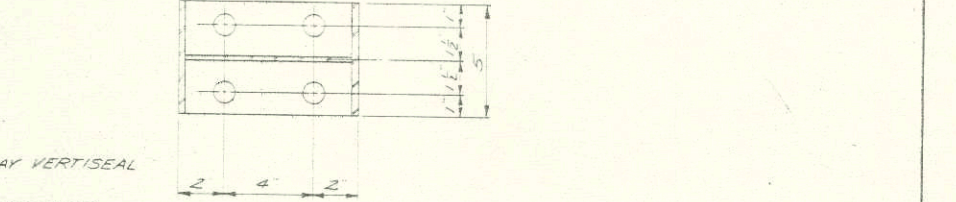
NOTE: WELDS ON COPPER BEARING STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES.

FLOOR DRAIN TYPE	A
FLOOR DRAINS REQ'D.	16

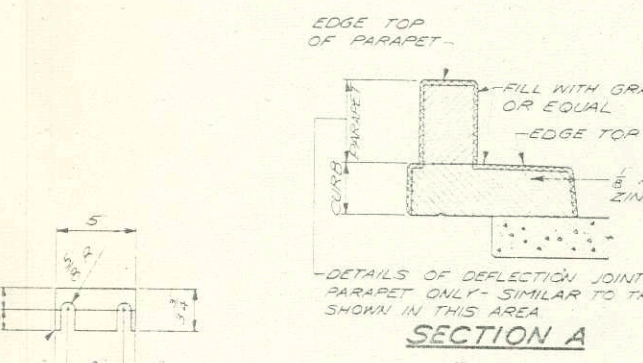
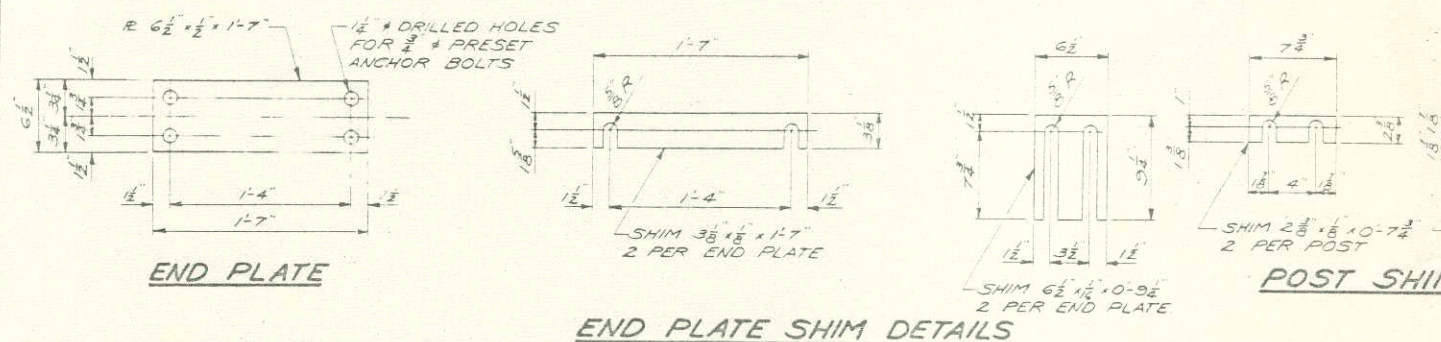
STATE HIGHWAY COMMISSION OF WISCONSIN
FLOOR DRAIN DETAILS
A.A.S.H.O. 1961 MOD. 1963
11763 BM BN
STRUCTURE B-32-35 SHEET 9 of 15



SECTION THRU CURB

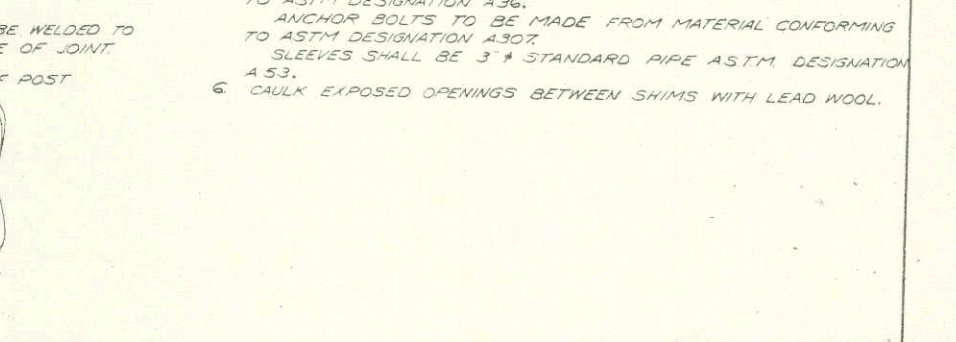
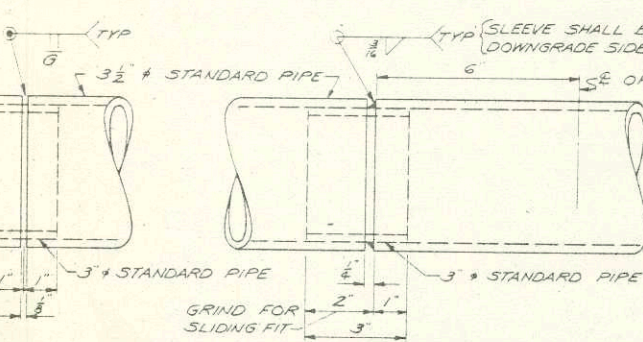
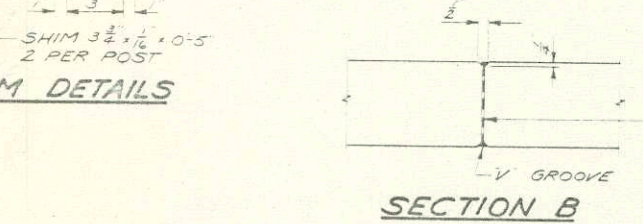
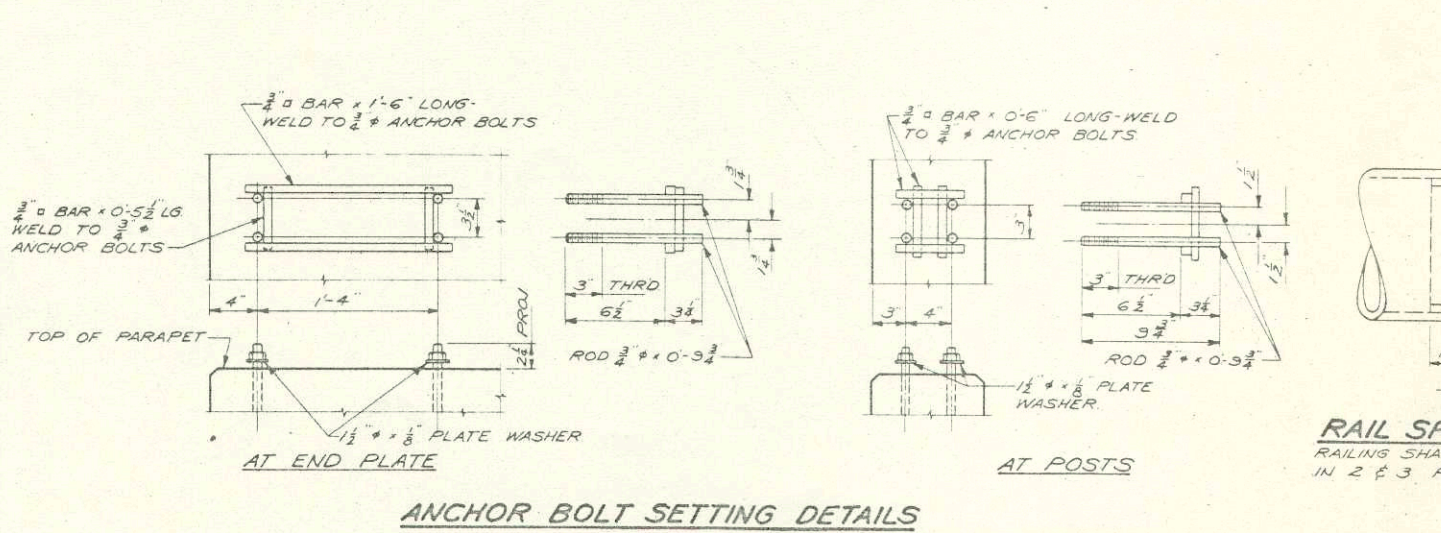


POST DETAILS



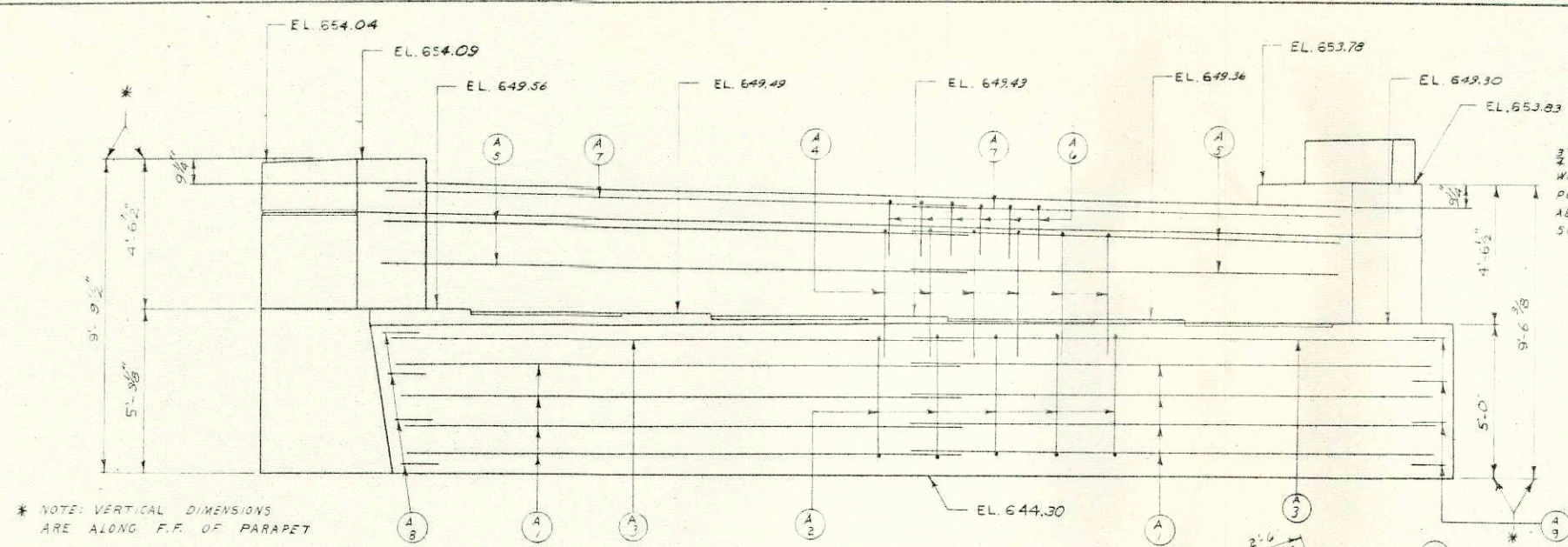
NOTES

1. STEEL RAIL POSTS SHALL BE SET NORMAL TO GRADE.
2. RAILING SHALL BE FABRICATED IN LENGTHS AS SHOWN.
3. STEEL SHIMS SHALL BE USED UNDER POSTS AND UNDER END PLATES WHERE REQUIRED FOR ALIGNMENT.
4. WHEN PARAPETS AND CURBS ARE POURED CONTINUOUSLY FROM END TO END THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF 1/2" ZINC OR ALUMINUM PLATE CUT AS SHOWN IN SECTION 'A' BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS AND CURBS ARE USED AT THE DEFLECTION JOINTS ONE SIDE OF JOINT SHALL BE COATED WITH BITUMINOUS PAINT AND PLATE SEPARATORS MAY BE OMITTED.
5. THE FOLLOWING MATERIALS SHALL BE USED:
RAILING SHALL BE 3 1/2" STANDARD PIPE ASTM DESIGNATION A53.
POST SHALL BE FABRICATED FROM MATERIAL CONFORMING TO ASTM DESIGNATION A36.
ANCHOR BOLTS TO BE MADE FROM MATERIAL CONFORMING TO ASTM DESIGNATION A307.
SLEEVES SHALL BE 3" STANDARD PIPE ASTM DESIGNATION A53.
6. CAULK EXPOSED OPENINGS BETWEEN SHIMS WITH LEAD WOOL.



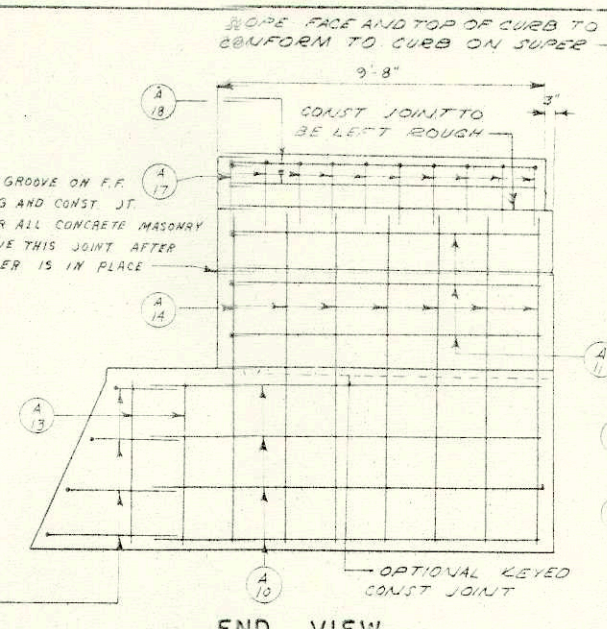
TUBULAR

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN		
	STEEL RAILING TYPE "A"		
DESIGN SPEC	AASHO G1	LOADING	H20-S16 CONCRT 1963
DATE	1/763	DESIGN	STD
		DRAWN	BW
STRUCTURE	B-32-35	SHEET	10 OF 15

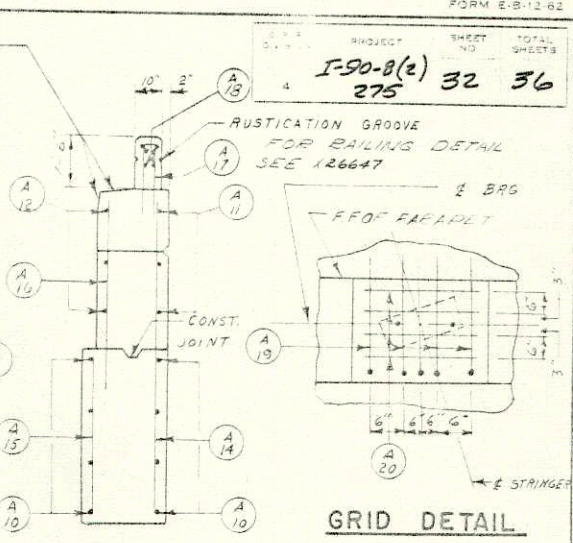


* NOTE: VERTICAL DIMENSIONS ARE ALONG F.F. OF PARAPET

ELEVATION
LOOKING WEST



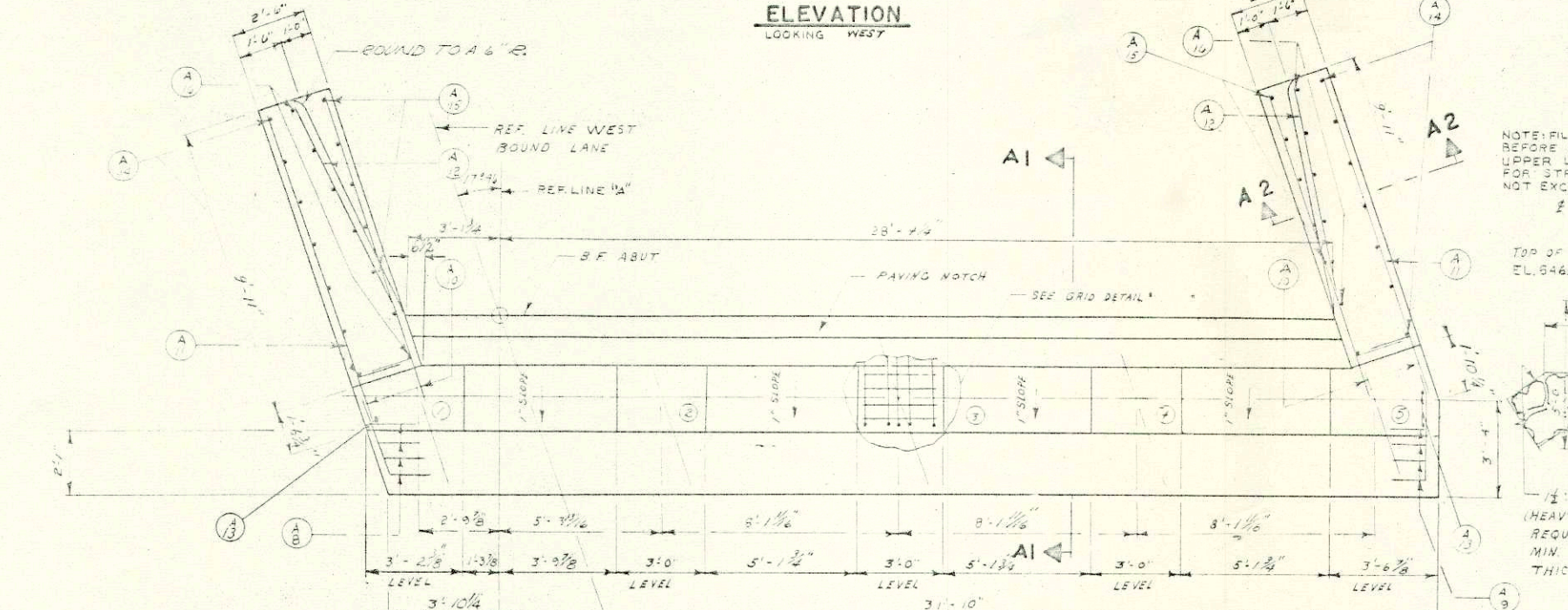
END VIEW



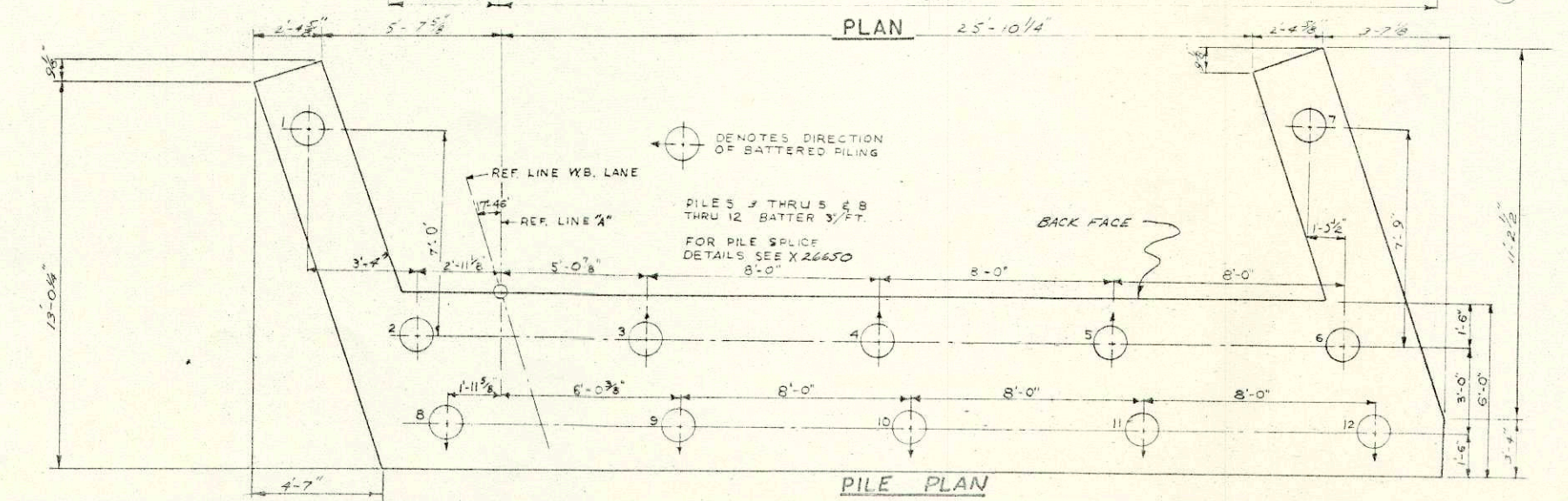
SECTION A2
THRU BOTH WINGS
BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT. 1,690[#]

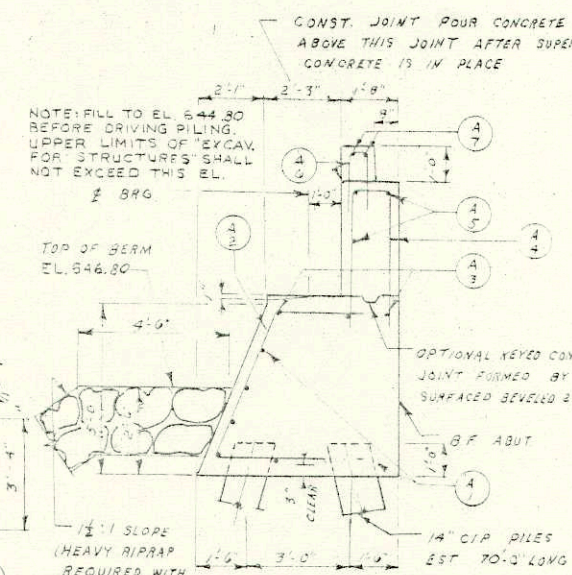
MARK NO	SIZE	LENGTH	SPACING	LOCATION	DET
A1	14	4	13-8	SHOWN	BODY - LONG (SIDES AND BOTTOM)
A2	18	4	13-0	2-0	BODY - STIRRUPS
A3	8	6	18-9	SHOWN	BODY - LONG (TOP)
A4	21	5	9-3	1-6	PARAPET - STIRRUPS
A5	8	4	17-0	SHOWN	" - LONG
A6	3	5	5-0	1-0	PAVING BLOCK - STIRRUPS
A7	4	4	16-3	SHOWN	" - LONG
A8	4	4	5-0	1-6	BODY - CORNER
A9	4	4	5-9	1-6	"
A10	16	4	11-3	1-6	WINGS (INSIDE AND OUTSIDE FACE)
A11	8	4	11-0	1-6	" (OUTSIDE FACE)
A12	8	4	11-3	1-6	" (INSIDE FACE)
A13	4	4	4-9	SHOWN	BODY (OUTSIDE FACE)
A14	4	4	9-3	1-6	WINGS
A15	10	4	4-9	1-6	" (INSIDE FACE)
A16	14	4	5-5	1-6	"
A17	20	5	5-6	1-0	WING PARAPET (STIRRUPS)
A18	8	5	8-3	SHOWN	" - LONG
A19	25	4	4-0	"	GRID BARS
A20	20	4	2-3	"	"



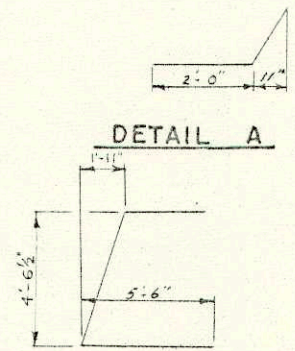
PLAN



PILE PLAN

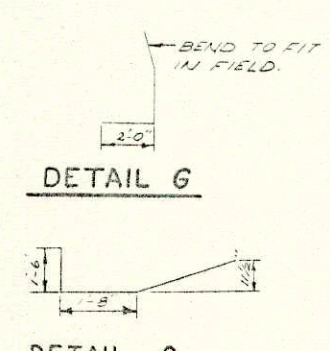


SECTION A1



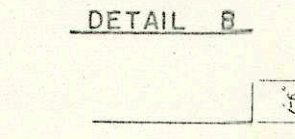
DETAIL A

DETAIL B

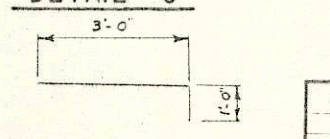


DETAIL C

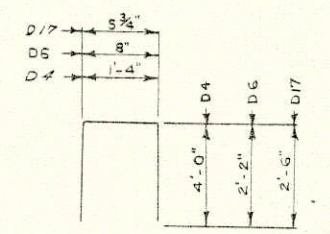
DETAIL D



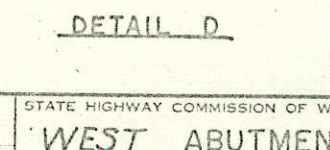
DETAIL E



DETAIL F



DETAIL G



DETAIL H

STATE HIGHWAY COMMISSION OF WISCONSIN
WEST ABUTMENT
DESIGNER: A.A.S. & S.M. CONSULTING ENGINEERS
DATE: 1-17-63
STRUCTURE B-32-35
SHEET 11 OF 15

PROJECT	SHEET NO.	TOTAL SHEETS
I-20-8(2)	33	56
4	275	

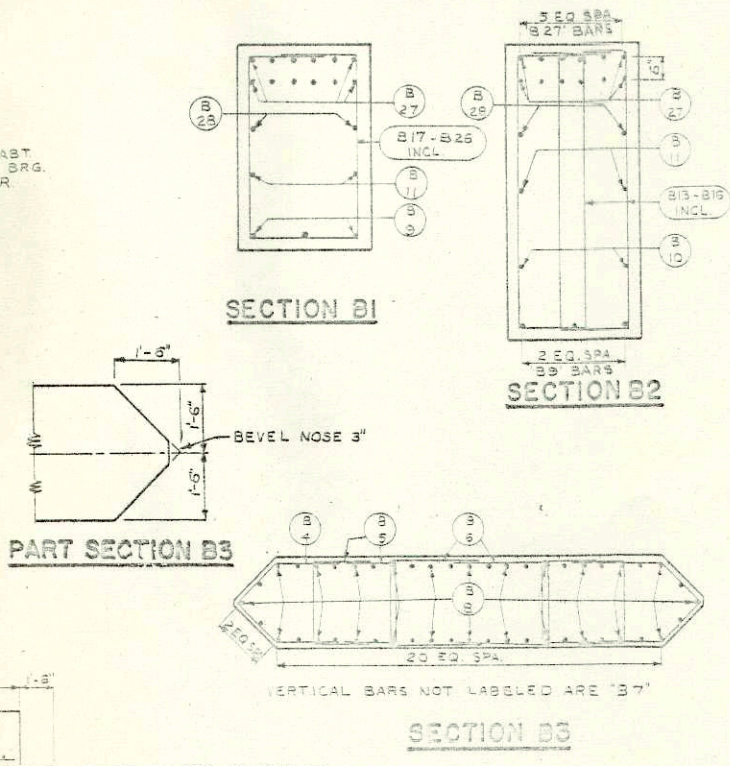
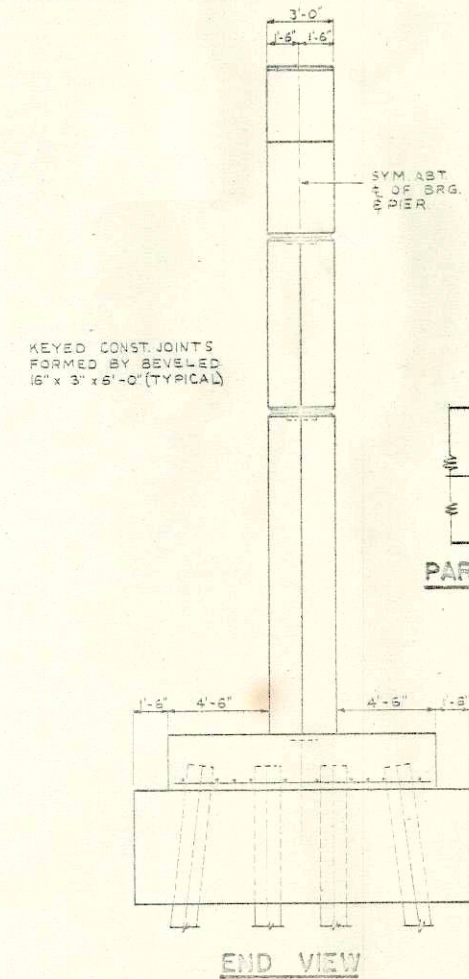
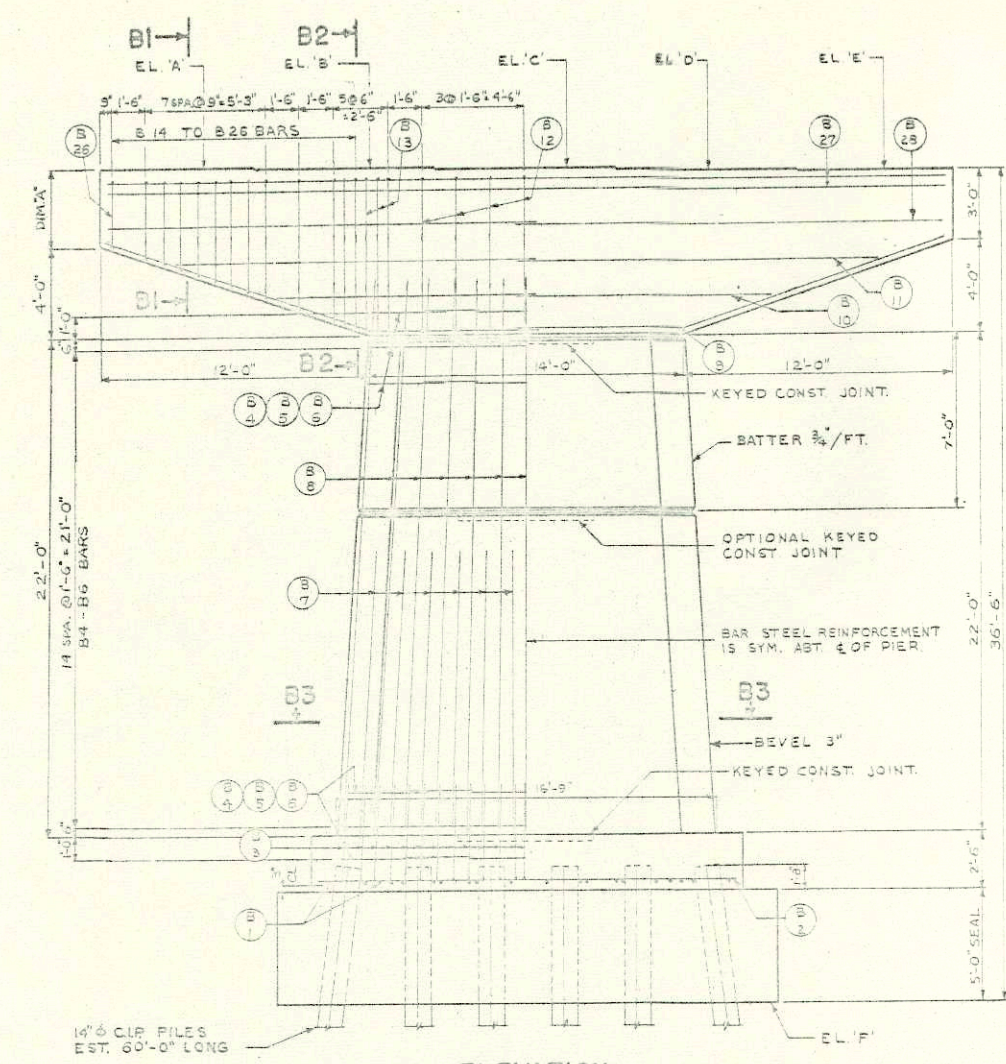
	EL. A	EL. B	EL. C	EL. D	EL. E	EL. F	DIM. A'
PIER 1	647.23	647.16	647.03	647.03	646.96	646.46	3'-3 1/2"
PIER 2	647.65	647.55	647.52	647.45	647.35	646.89	3'-3 1/2"
PIER 4	648.42	648.35	648.28	648.21	648.14	647.64	3'-3 1/2"
PIER 5	648.76	648.69	648.62	648.55	648.48	647.98	3'-3 1/2"

BILL OF BARS

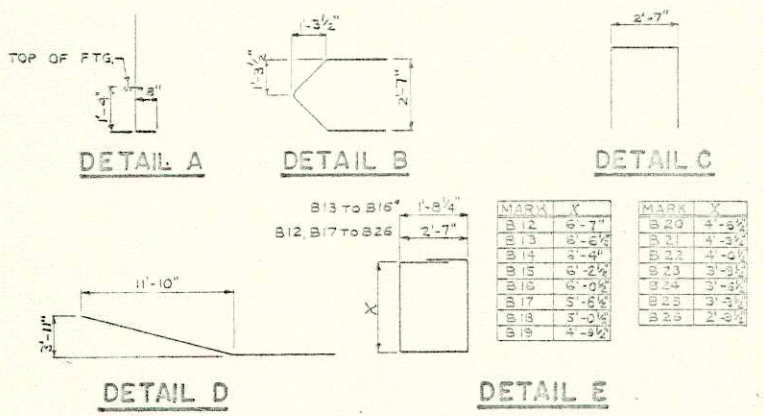
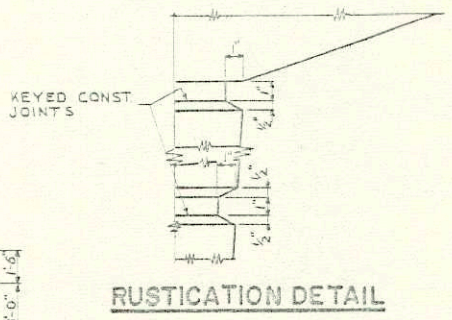
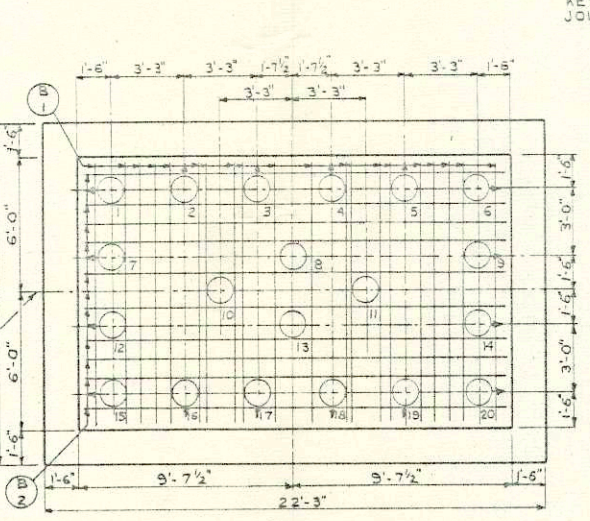
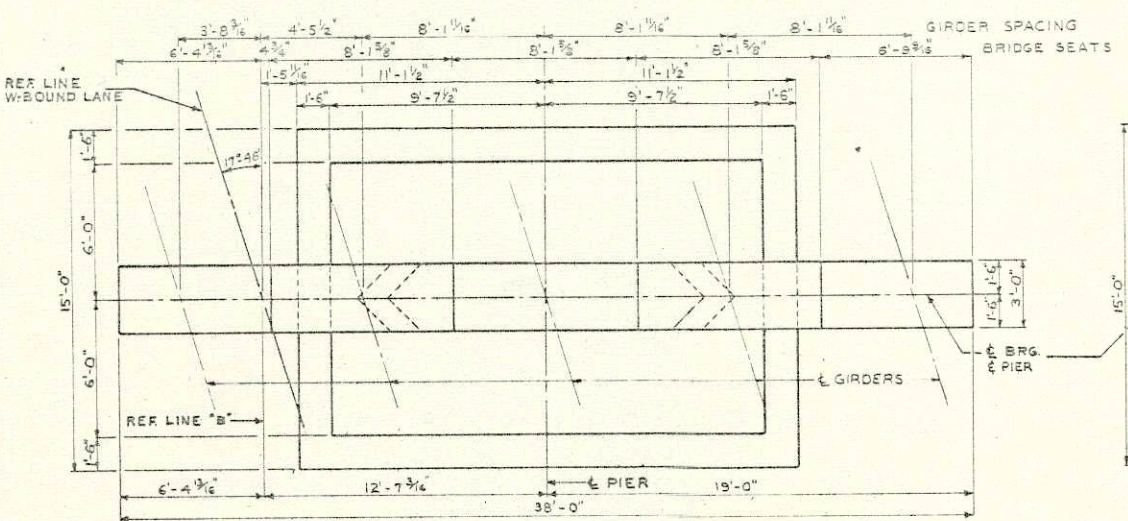
33 440#

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

POUR MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	QTY
FOOTING	B1	80	10	1'-6"	SHOWN FOOTING	
	B2	40	8	13'-9"	"	
	B3	192	8	4'-0"	FOOTING DOWELS	A
	B4	8	4	8'-3"	FOOTING TIRES	B
	B5	16	4	6'-6"	"	C
STEM	B6	8	4	9'-3"	"	C
	B7	120	4	8'-3"	SHOWN STEM TIRES	B
	B8	240	4	8'-6"	"	C
CAP BEAM	B9	120	4	8'-3"	"	C
	B10	16	4	20'-6"	CAP BOTTOM	D
	B11	16	4	12'-0"	1'-6" CAP SIDES	
	B12	28	4	13'-3"	1'-6" CAP STIRRUPS	A
	B13	48	4	17'-6"	"	B
	B14	16	4	17'-0"	SHOWN	
	B15	16	4	16'-9"	"	
	B16	16	4	16'-6"	"	
	B17	8	4	17'-3"	"	
	B18	8	4	16'-3"	"	
	B19	8	4	17'-3"	"	
	B20	8	4	15'-3"	"	
	B21	8	4	14'-9"	"	
B22	8	4	14'-3"	"		
B23	8	4	13'-9"	"		
B24	8	4	13'-8"	"		
B25	8	4	12'-9"	"		
B26	8	4	11'-9"	"		
B27	48	11	37'-6"	CAP TOP		
B28	16	4	19'-3"	1'-6" CAP SIDES		



NOTE: UNLESS OTHERWISE SHOWN, ALL BAR STEEL REIN. SHALL BE IMBEDDED 2 1/2" CL.



ESTIMATED CONCRETE MASONRY (TYPICAL)

POUR	C.Y.	58.0
SEAL	C.Y.	20.5
FOOTING	C.Y.	34.0
STEM	C.Y.	15.0
CAP	C.Y.	15.0

⊙ DENOTES DIRECTION OF BATTERED PILING
 FOR PILE SPLICE DETAILS SEE X 26650.
 PILE SPA. SHOWN ABOVE IS TAKEN AT TOP OF SEAL.
 NOTE: PILES 1 THRU 6, 7, 5, 12, 14 & 15 THRU 20 BATTER 1 1/2" / FT.

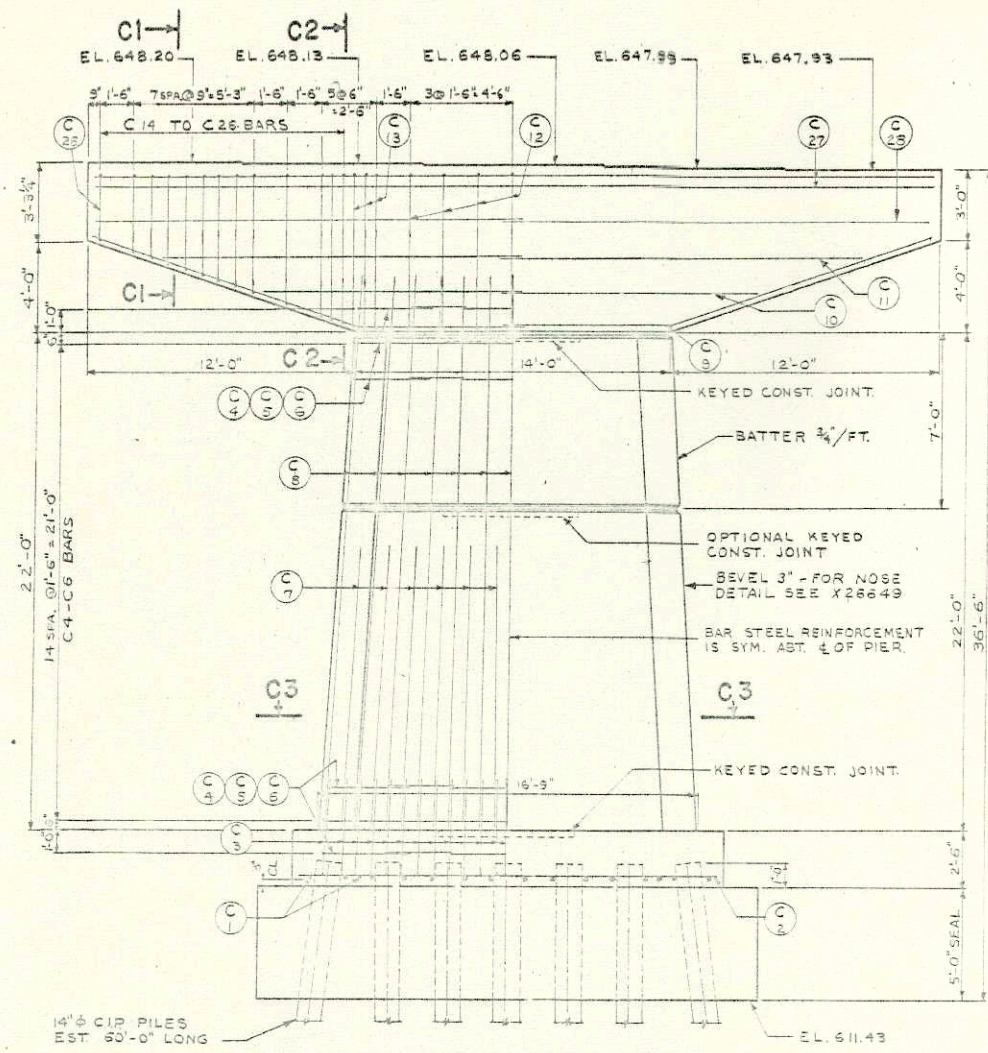
REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	PIERS 1, 2, 4 & 5
	DESIGNED BY AASHO '61 (LOADING H20-S16M) (CONC. 1963)
	DATE: 11-7-63 DRAWN BY: B.H.M. CHECKED BY: B.H.M. (S)
STRUCTURE	B-32-85
SHEET	12 OF 15

DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	I-55-8(2)	34	36
	275		

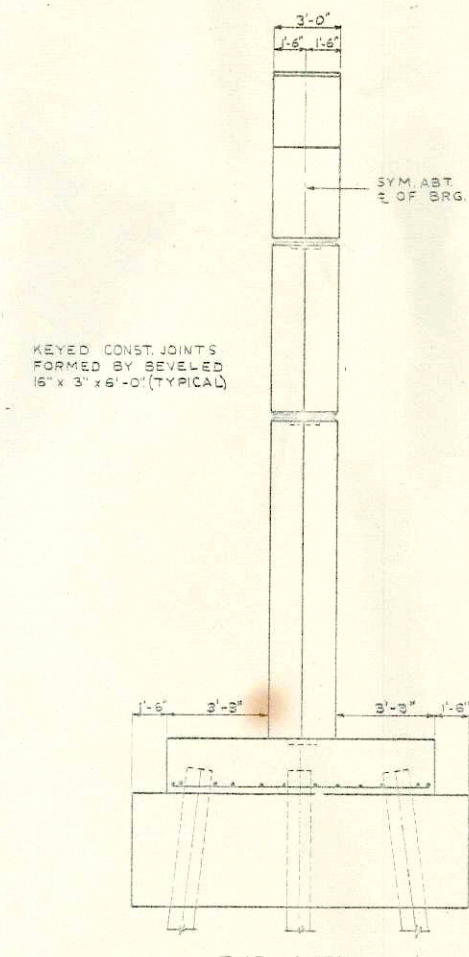
BILL OF BARS 7860'

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

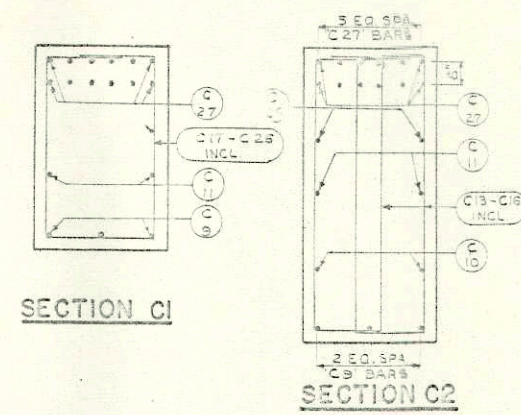
POUR MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	QTY.
FOOTING						
C1	16	10	9-0	SHOWN	FOOTING	
C2	12	7	20-6	"	"	
C3	48	8	4-0	"	FOOTING, DOWELS	A
C4	2	4	8-3	"	FOOTING, TIES	B
C5	4	4	8-6	"	"	C
C6	2	4	9-3	"	"	C
STEM						
C4	30	4	8-3	1-6	STEM, TIES	B
C5	60	4	8-6	1-6	"	C
C6	30	4	8-3	1-6	"	C
C7	24	8	13-0	SHOWN	STEM, VERTICAL	
C8	24	8	24-0	"	"	
CAP BEAM						
C4	2	4	8-3	SHOWN	CAP, TIES	B
C5	4	4	8-6	"	"	C
C6	2	4	9-3	"	"	C
C9	5	4	20-6	"	CAP, BOTTOM	D
C10	4	4	12-0	1-6	CAP, SIDES	
C11	4	4	16-6	1-6	"	
C12	7	4	13-0	1-6	CAP, STIRRUPS	E
C13	12	4	17-6	6	"	E
C14	4	4	17-0	SHOWN	"	E
C15	4	4	18-3	"	"	E
C16	4	4	16-6	"	"	E
C17	2	4	17-3	"	"	E
C18	2	4	18-3	"	"	E
C19	2	4	12-9	"	"	E
C20	2	4	13-3	"	"	E
C21	2	4	14-9	"	"	E
C22	2	4	14-0	"	"	E
C23	2	4	12-0	"	"	E
C24	2	4	13-3	"	"	E
C25	2	4	12-0	"	"	E
C26	2	4	11-9	"	"	E
C27	12	11	37-6	"	CAP, TOP	F
C28	4	4	19-3	1-6	CAP, SIDES	



ELEVATION
LOOKING WEST

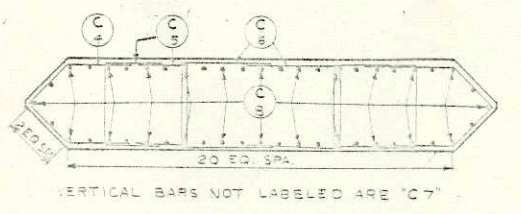


END VIEW

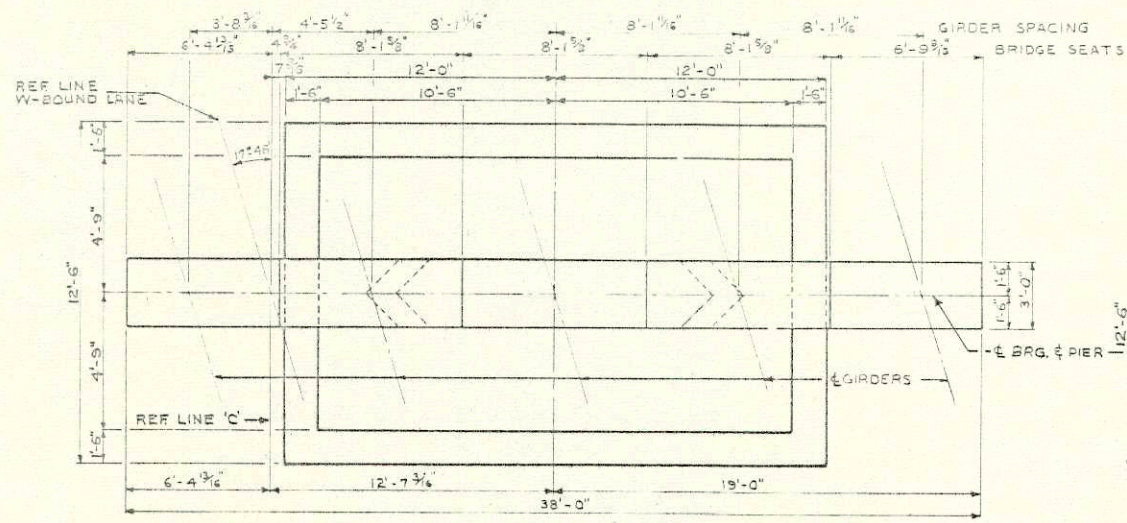


SECTION C1

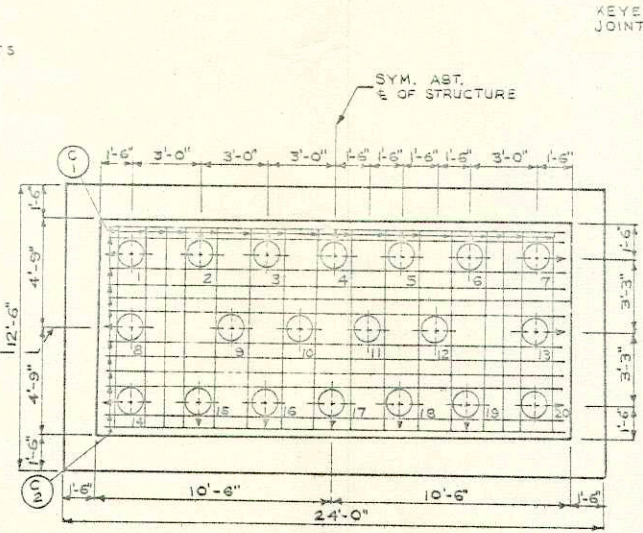
SECTION C2



SECTION C3

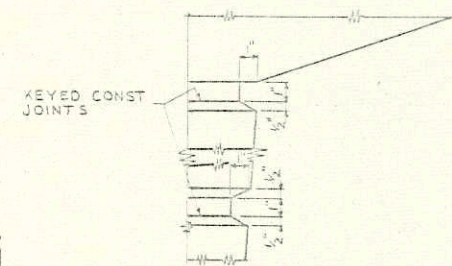


PLAN



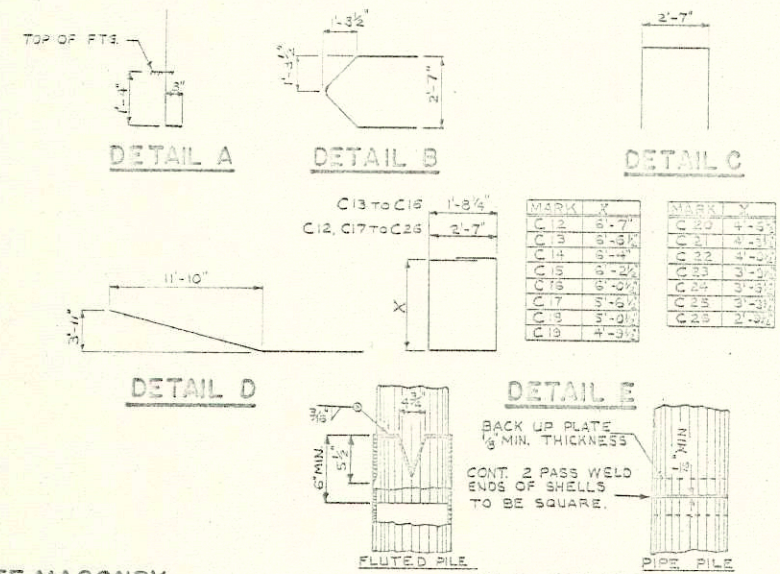
FOOTING PLAN

⊙ DENOTES DIRECTION OF BATTERED PILING.
PILE SPA. SHOWN ABOVE IS TAKEN AT TOP OF SEAL.
NOTE: BATTER PILES 2 THRU 6 1/2 THRU 13, 1 1/2' FT. BATTER PILES 1, 7, 8, 13, 14 2'20' 2' FT.



RUSTICATION DETAIL

BAR STEEL REIN. IN FOOTINGS SHALL BE SPACED EQUALLY BETWEEN PILES.



DETAIL A

DETAIL B

DETAIL C

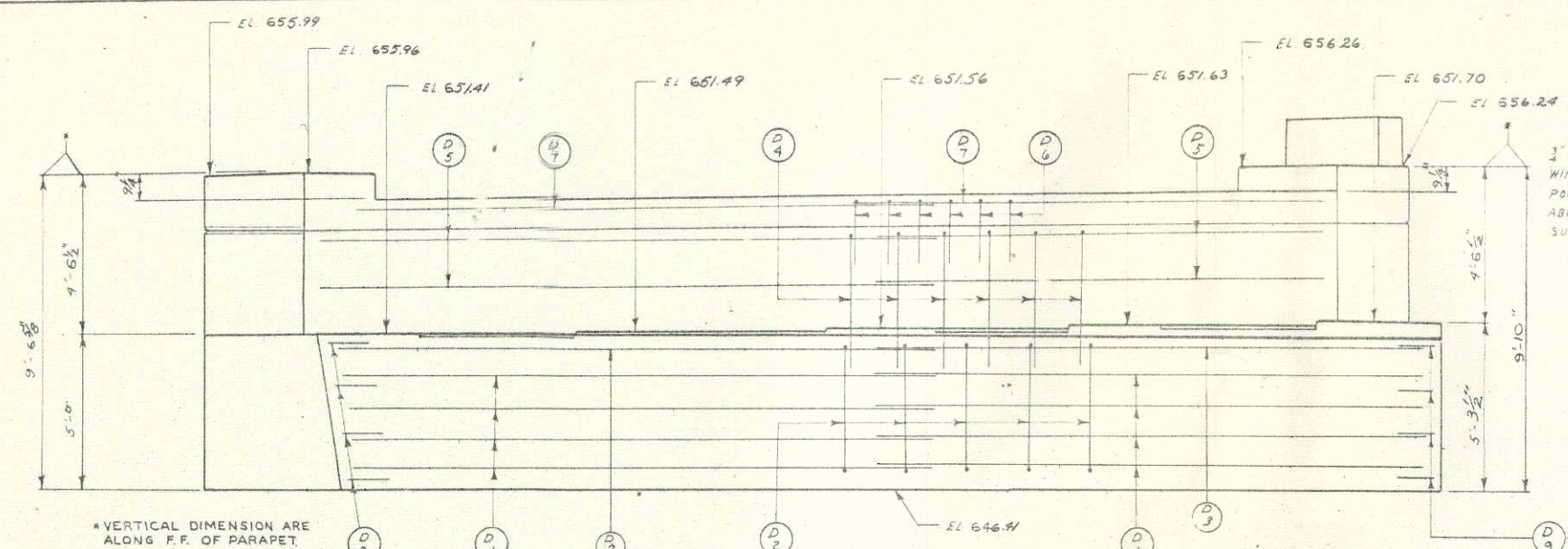
DETAIL D

DETAIL E

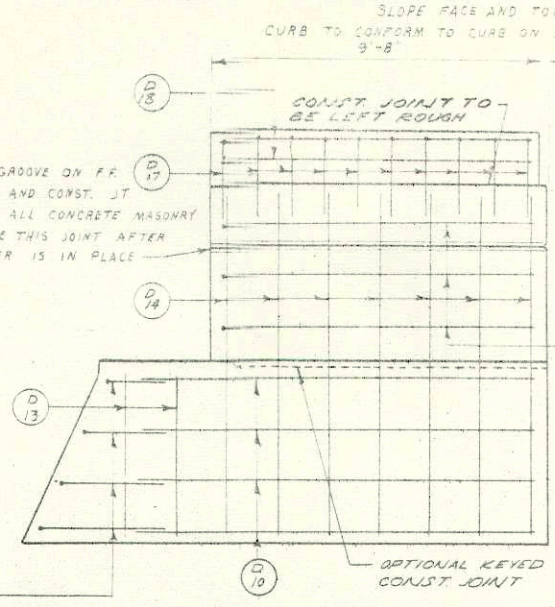
ESTIMATED CONCRETE MASONRY

POUR		
SEAL	C. Y.	51.8
FOOTING	C. Y.	17.7
STEM	C. Y.	34.0
CAP	C. Y.	25.0

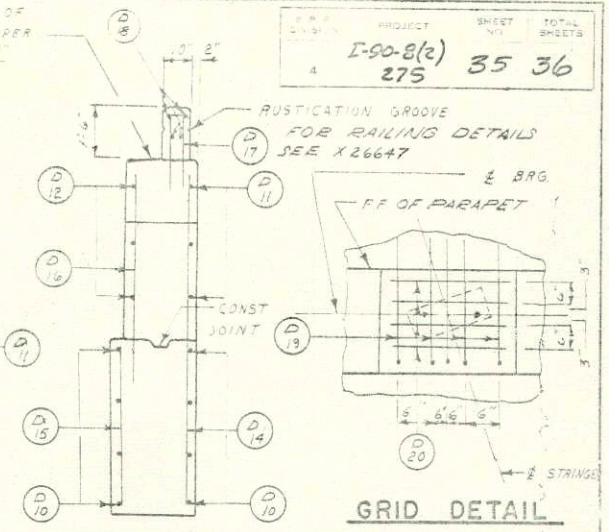
REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN
	PIER 3
DESIGN SPEC: AASHTO '61	LOADING: H20-S16M, 1963
DATE: 7/25/63	DRAWN: BHM, CRD.
STRUCTURE B-32-35	SHEET 13 OF 15



ELEVATION
LOOKING EAST



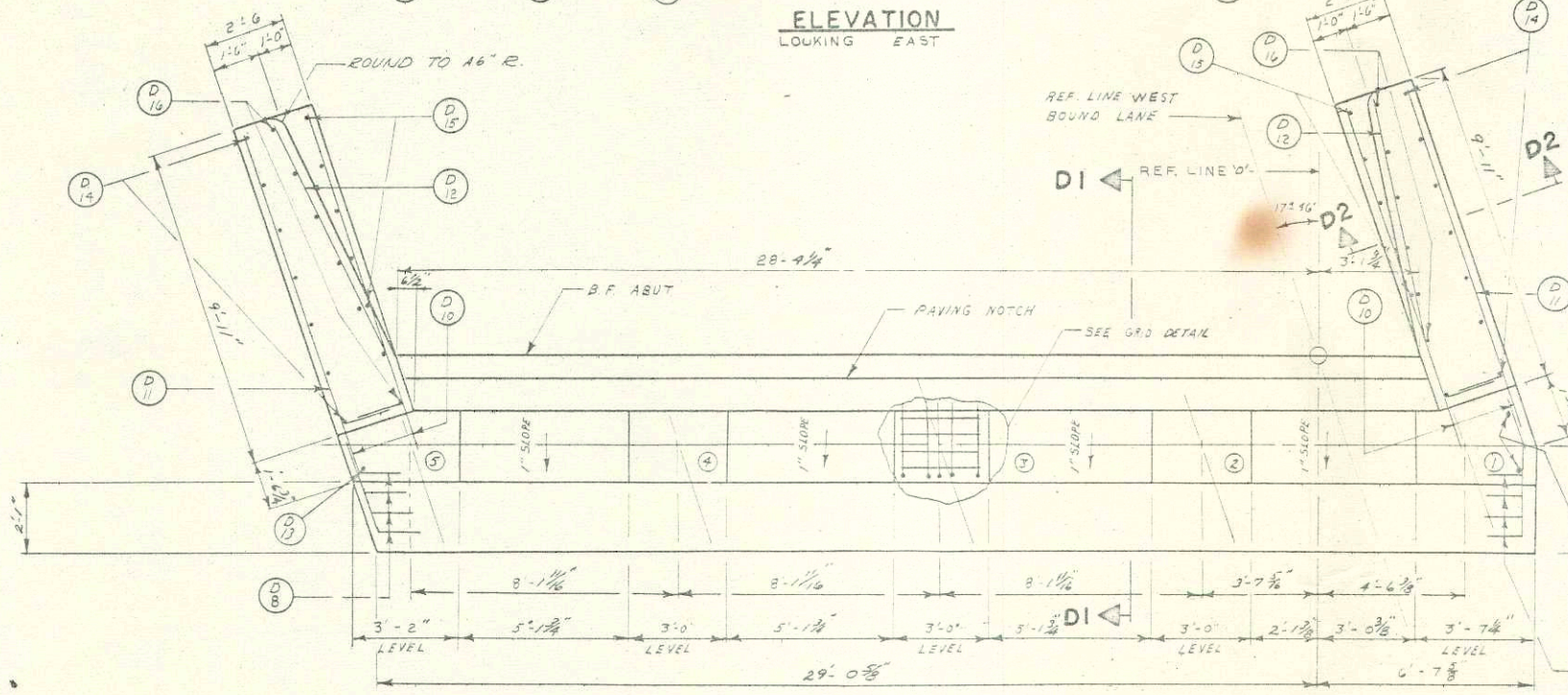
END VIEW



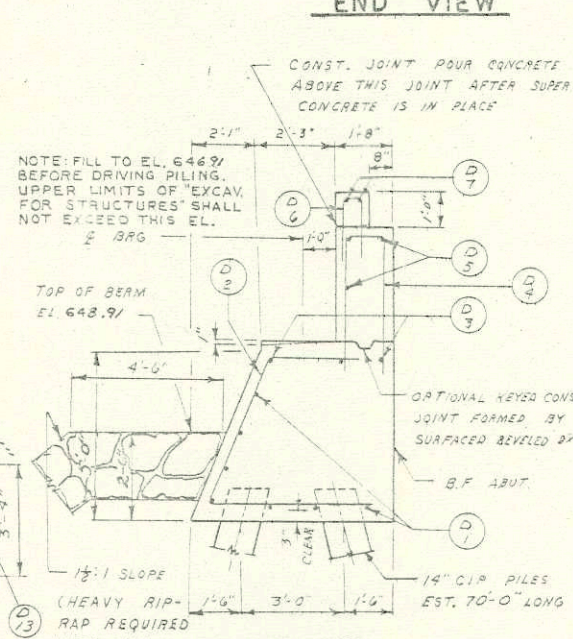
SECTION D2
TYP. BOTH WINGS
BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT 1,690[±]

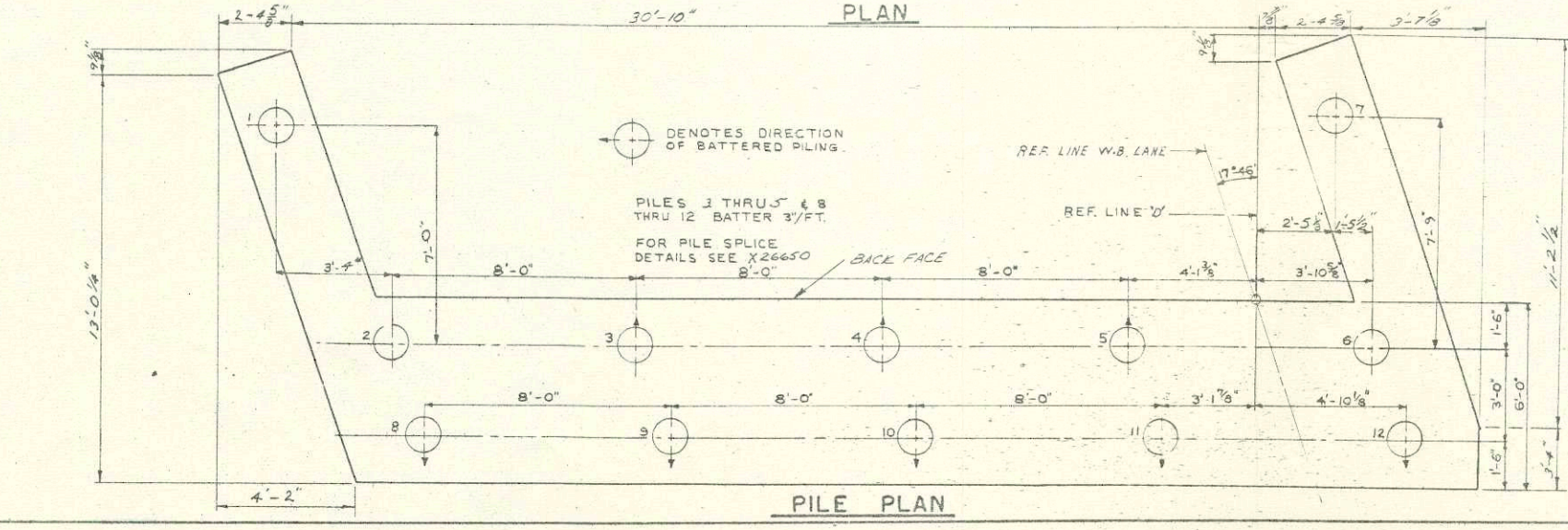
MARK NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
D1	14	4	16'-6"	SHOWN	BODY - LONG (SIDES AND BOTTOM)
D2	18	4	13'-0"	2'-0"	BODY - STIRRUPS
D3	6	6	18'-9"	SHOWN	BODY - LONG (TOP)
D4	21	5	9'-3"	1'-6"	PARAPET - STIRRUPS
D5	6	4	17'-0"	SHOWN	" - LONG.
D6	31	5	5'-0"	1'-0"	PAVING BLOCK - STIRRUPS
D7	4	4	16'-3"	SHOWN	" - LONG.
D8	4	4	5'-0"	1'-6"	BODY - CORNER
D9	4	4	5'-9"	1'-6"	"
D10	16	4	11'-3"	1'-6"	WINGS (INSIDE AND OUTSIDE FACE)
D11	8	4	11'-0"	1'-6"	" (OUTSIDE FACE)
D12	6	4	11'-3"	1'-6"	" (INSIDE FACE)
D13	3	4	4'-6"	SHOWN	BODY (OUTSIDE FACE)
D14	14	4	9'-3"	1'-6"	WINGS
D15	10	4	4'-9"	1'-6"	" (INSIDE FACE)
D16	14	4	5'-6"	1'-6"	"
D17	20	5	9'-6"	1'-0"	WING PARAPET (STIRRUPS)
D18	8	5	9'-3"	SHOWN	" - LONG.
D19	25	4	4'-0"	"	GRID BARS
D20	20	4	2'-9"	"	"



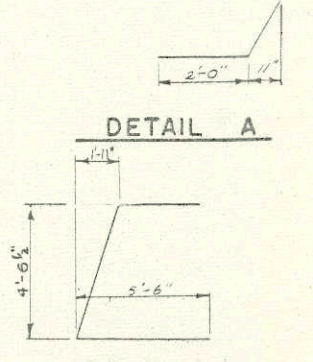
PLAN



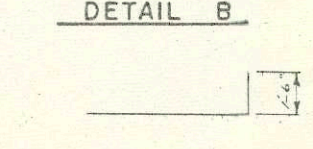
SECTION D1



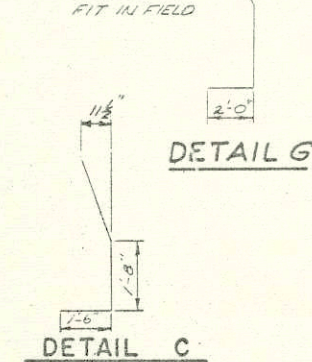
PILE PLAN



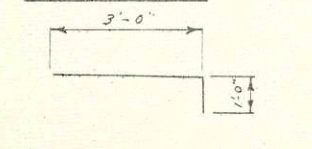
DETAIL A



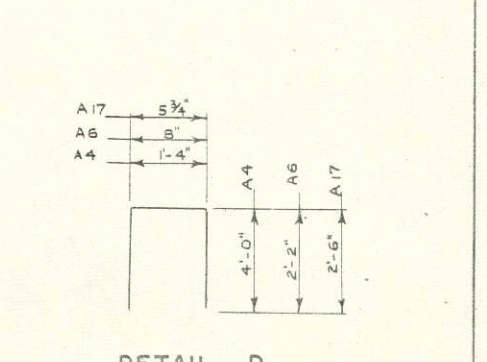
DETAIL B



DETAIL C

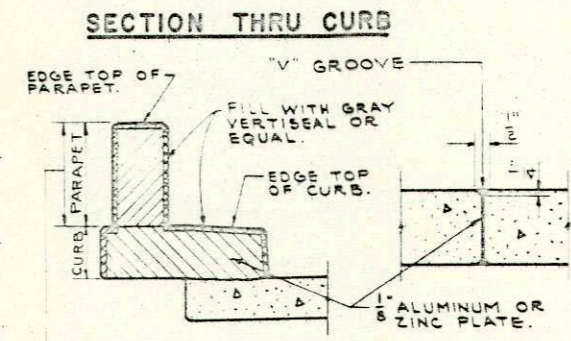
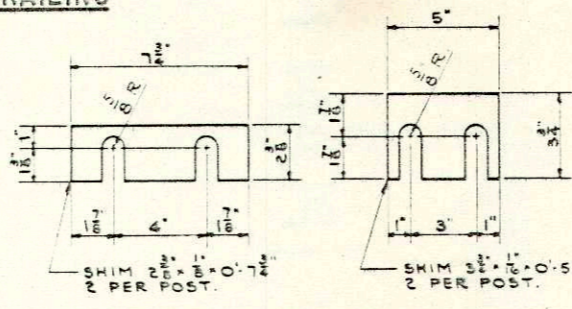
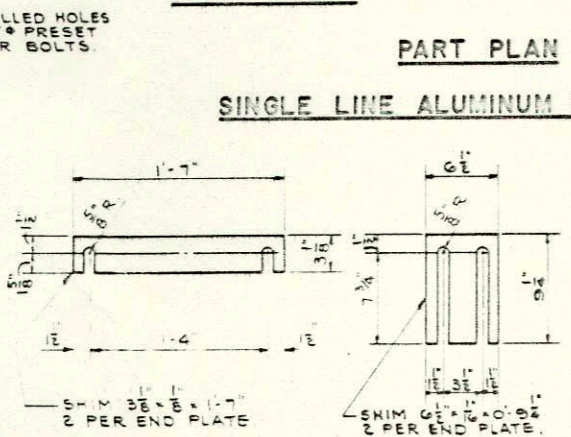
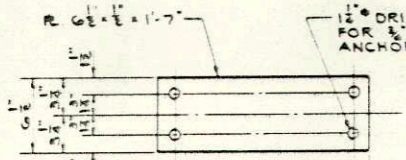
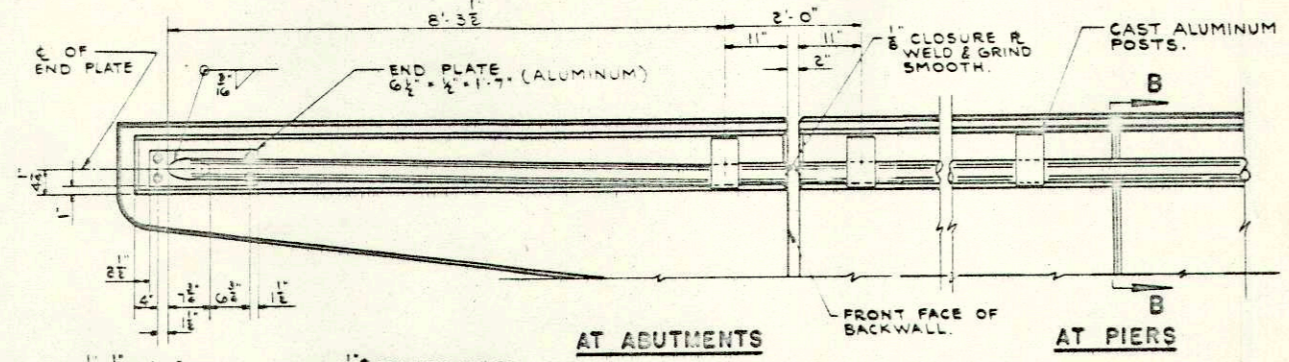
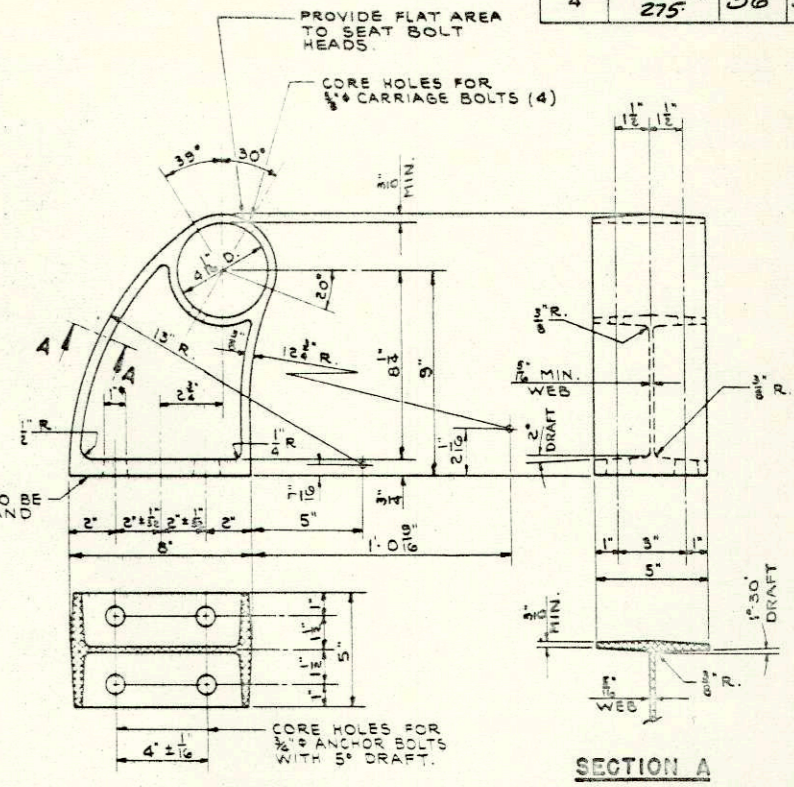
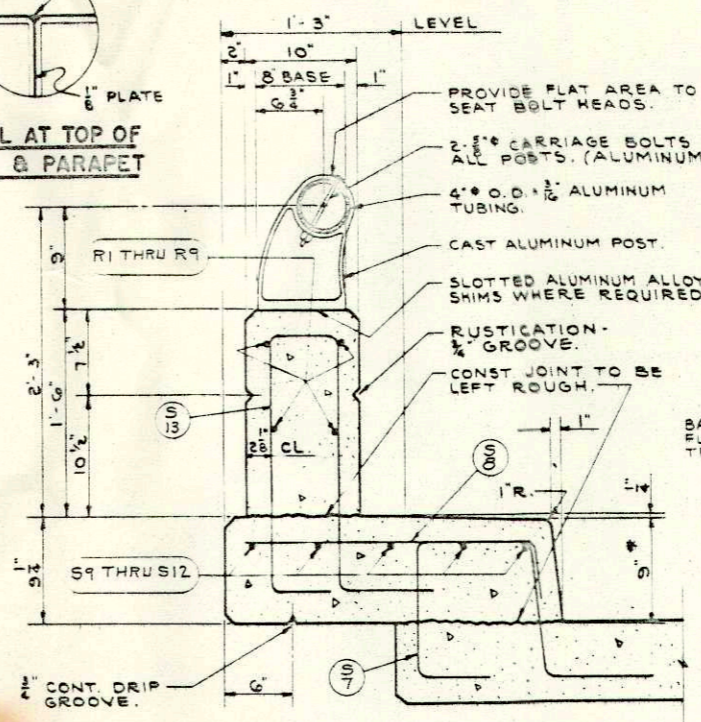
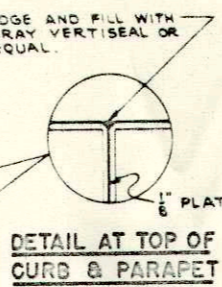
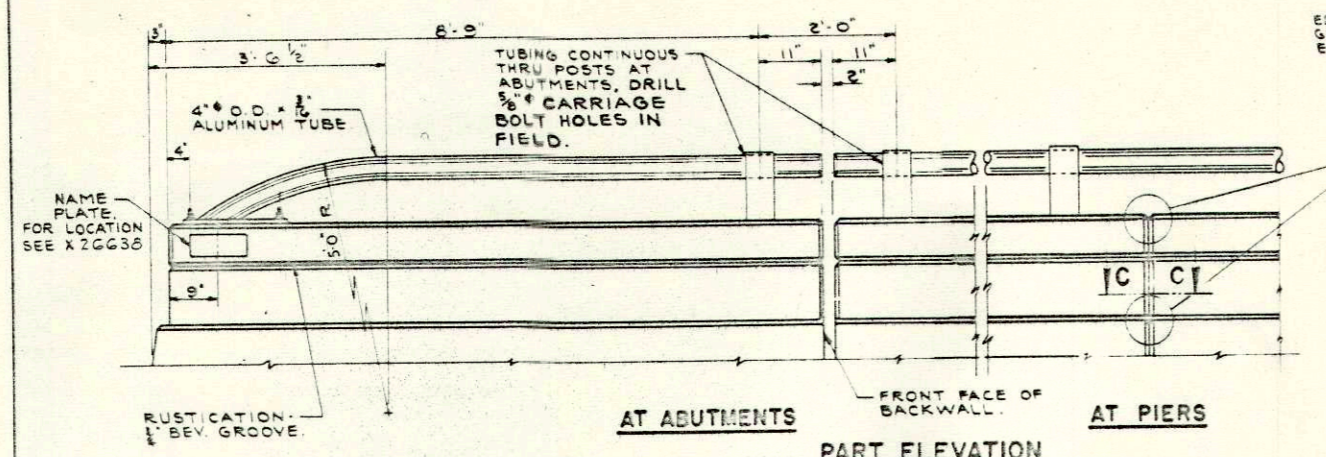


DETAIL D



DETAIL E

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	EAST ABUTMENT
	DESIGN SPEC. A.A.S.H.O. 61 (LOADING H20-56) CONST. SPEC. 1963
	DATE: 1-17-63 DESIGN: BHM DRAWN: MHH
STRUCTURE	B-32-35
SHEET	14 OF 15



ALUMINUM POST CASTING

NOTES

1. ALUMINUM RAILING POSTS TO BE SET NORMAL TO GRADE.
2. THE HEX. NUTS, WASHERS AND THE UPPER 3' OF 1/2" x 3/4" ANCHOR BOLTS SHALL BE GALVANIZED OR CADMIUM PLATED. THE ANCHOR BOLT HOLES, BASE OF RAILING POSTS AND ANCHOR BOLTS, NUTS AND WASHERS SHALL BE COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND. ANCHOR BOLTS, HEX. NUTS AND WASHERS TO BE STRUCTURAL CARBON STEEL.
3. ALUMINUM TUBING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.
4. ALUMINUM ALLOY SHIMS SHALL BE USED UNDER POSTS AND UNDER END PLATES WHERE REQUIRED FOR ALIGNMENT.
5. WHEN PARAPETS AND CURBS ARE POURED CONTINUOUSLY FROM END TO END THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF 1/2" ZINC OR ALUMINUM PLATE CUT AS SHOWN IN SECTION "B" BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS AND CURBS ARE USED AT THE DEFLECTION JOINTS ONE SIDE OF JOINT SHALL BE COATED WITH BITUMINOUS PAINT AND PLATE SEPARATORS MAY BE OMITTED.

END PLATE (ALUMINUM)

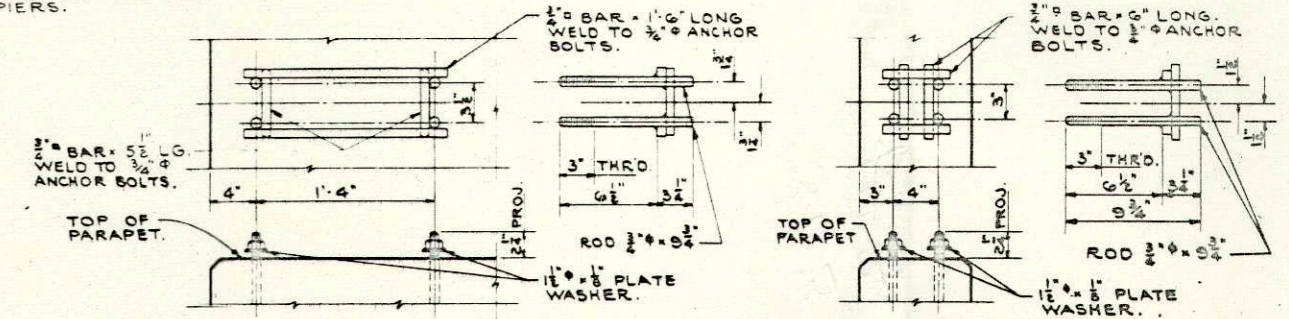
END PLATE SHIM DETAILS

POST SHIM DETAILS

DETAILS OF DEFLECTION JOINTS IN PARAPET ONLY - SIMILAR TO THAT SHOWN IN THIS AREA.

SECTION B

SECTION C



AT END PLATE

AT POSTS

ANCHOR BOLT SETTING DETAILS

TYPE A

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	TUBULAR ALUMINUM RAILING
	DESIGN SPEC. A.A.S.H.O. G1. LOADING 720' - 1963
	DATE: 1-17-63 DESIGN: S.T.D. DRAWN: S.W. CKD: P.J.
STRUCTURE	B-32-35 SHEET 15 OF 15

X26651A