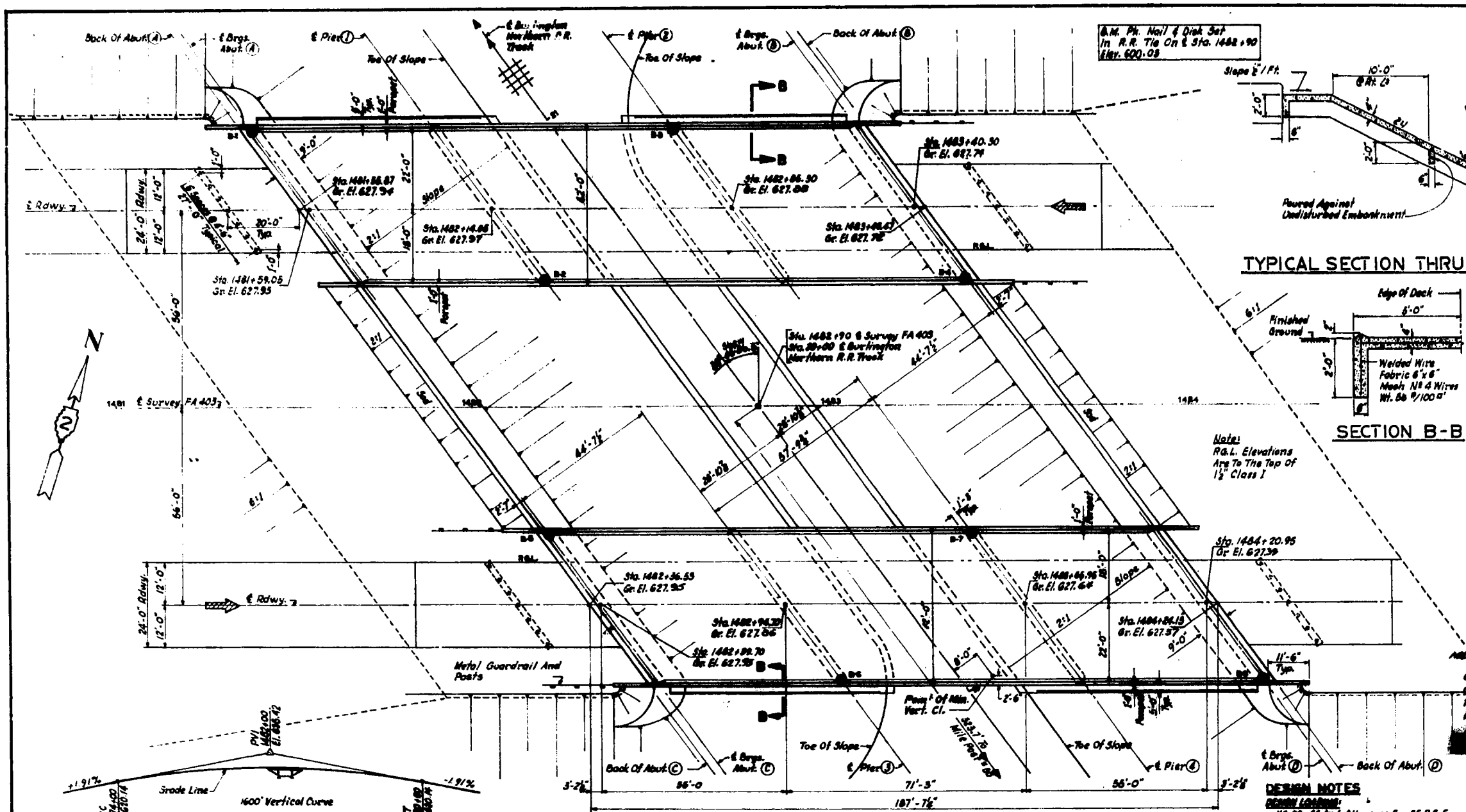
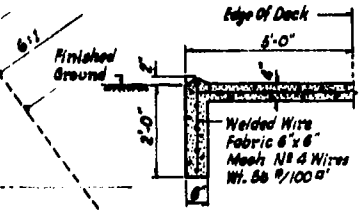


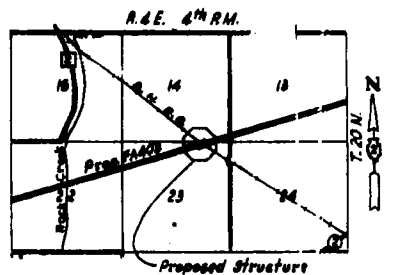
098-0061 & 098-0062



TYPICAL SECTION THRU SLOPE WALL



SECTION B-B



LOCATION MAP

GENERAL NOTES

ALL REINFORCEMENT BARS SHALL BE LAPPED IN SPANNERS UNLESS OTHERWISE SPECIFIED. FIELD CONNECTIONS SHALL BE BOLTED USING HIGH STRENGTH BOLTS. BOLTS 3/4" Ø, OPEN HOLES 1 1/8" Ø, UNLESS OTHERWISE NOTED.

THE BASIC LEAD SILLING CONCRETE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM OF FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP OF FLANGE OF BEAMS. ONE FOURTH THE OPEN LENGTH SHALL BE WELDED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE CONCRETE POURING OVER WALLFOOTS.

SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" X 6" MESH, WEIGHING 50# PER 100 SQ. FT..

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

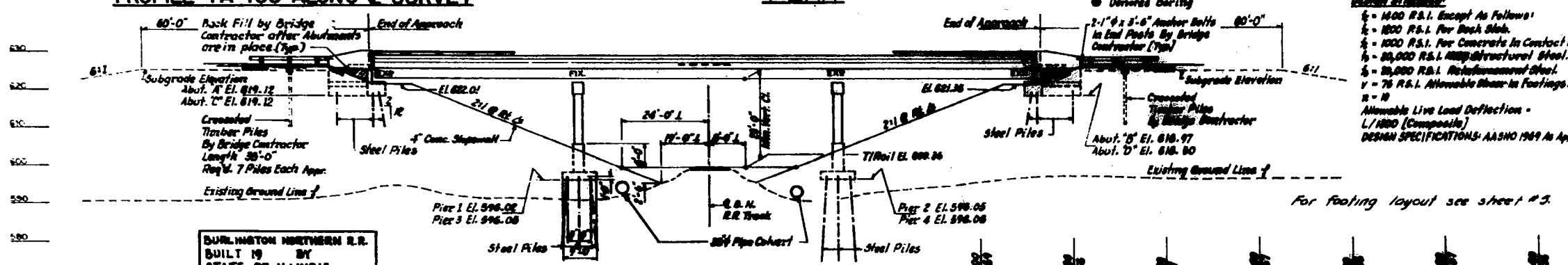
THE CONTRACTOR SHALL DRIVE EIGHT STEEL TEST PILES IN A PERMANENT LOCATION, ONE EACH AT PIERS AND ONE AT EACH ABUTMENT AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH INTERFERENCE WITH ADHESION OF JOINTS IS REQUIRED.

Grinding and surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ± 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

PROFILE FA 403 ALONG C SURVEY



PLAN

ELEVATION

DESIGN NOTES

DESIGN LOADS:
HS 20-44 And Allowance For 25 R.S.F. Below Bearing Surface

DESIGN SPECIFICATIONS:
1. 1400 R.S.F. Except As Follows:
2. 1000 R.S.F. For Deck Slab.
3. 1000 R.S.F. For Concrete In Contact With Earth.
4. 20,000 R.S.F. Reinforcement Steel.
5. 20,000 R.S.F. Reinforcement Steel.
6. 75 R.S.F. Allowable Stress In Footings.
7. 10 Allowable Live Load Deflection - L/1800 (Composite).
DESIGN SPECIFICATIONS: AASHTO 1989 As Applicable.

ITEM	UNIT	SUPER	SUB	TOTAL
STRUCTURE EMBANKMENT	CU. YDS.	---	---	---
PROTECTIVE COAT	SQ. YDS.	264	---	264
SLAB "X" CONCRETE	CU. YDS.	979.0	822.0	1,801.0
STRUCTURAL STEEL	LBS.	0.30	---	0.30
ALLOWED-BOLTED	LIN. FT.	794	---	794
REINFORCEMENT BARS	LBS.	120,000	01,000	120,000
CONCRETE TIE RODS (1/2" Ø)	LIN. FT.	---	1,000	1,000
STEEL PILES 12" Ø	LIN. FT.	---	1,700	1,700
TEST PILES 12" Ø	EA	---	8	8
WIDE PLATES	EA	---	2	2
SLAB WALL (6")	SQ. YDS.	---	2,000	2,000
ANCHOR BOLTS	EA	100	---	100
REINFORCEMENT Steel	SQ. YDS.	1,000	---	1,000
2" REINFORCEMENT	LIN. FT.	100	---	100
2" REINFORCEMENT	LIN. FT.	100	---	100
STEEL PILES 12" Ø	EA	4,000	---	4,000
STEEL PILES 12" Ø	EA	---	---	---

* CALCULATED WEIGHT OF STRUCTURAL STEEL = 207,000

GENERAL PLAN & ELEVATION
FA 403 SECTION 195-1 VB
FA 403 OVER BURLINGTON NORTHERN R.R.
WHITEHIDE COUNTY
STATION 1482+90.00

BURLINGTON NORTHERN R.R.
BUILT IN
BY
STATE OF ILLINOIS
FA 403 SECTION 195-1 VB
FA PROJECT 098-0061-0062

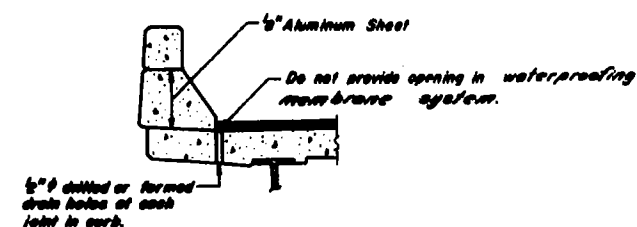
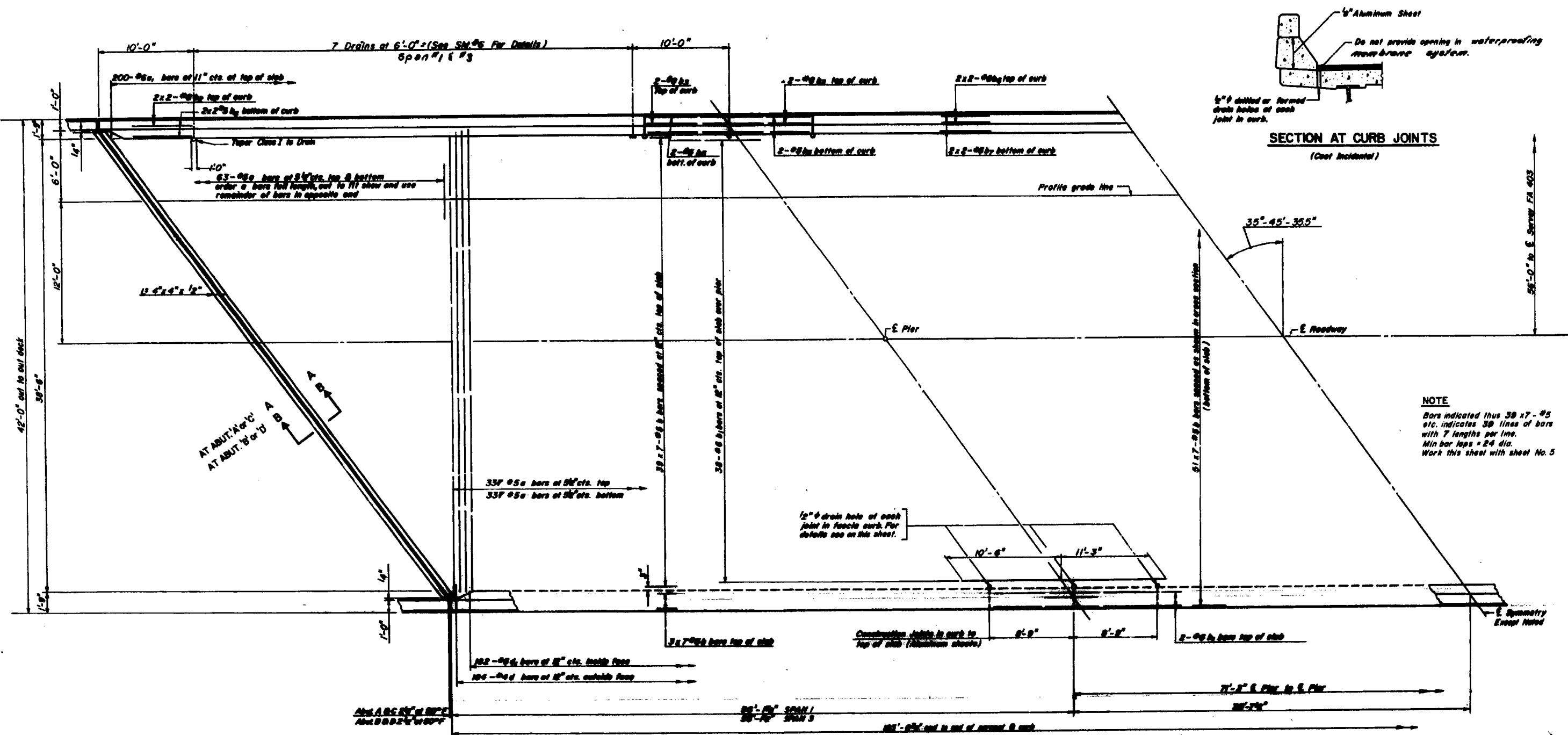
LOADING HS 20
NAME PLATE
See Sht. 220

NOTE:
Before Beginning Construction Of The Piers The Elevation Of The Embankment Must Be Built To The Bottom Of The Pier Footing Elevation Full Width And Length.

PROFILE BURLINGTON NORTHERN R.R. TRACK

DESIGN NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PA 405	105-1	WHITEHIDE	230	96
PA 405	105-1	WHITEHIDE	230	96

SHEET NO. 4
16 SHEETS



SECTION AT CURB JOINTS
(Cost Incidental)

NOTE

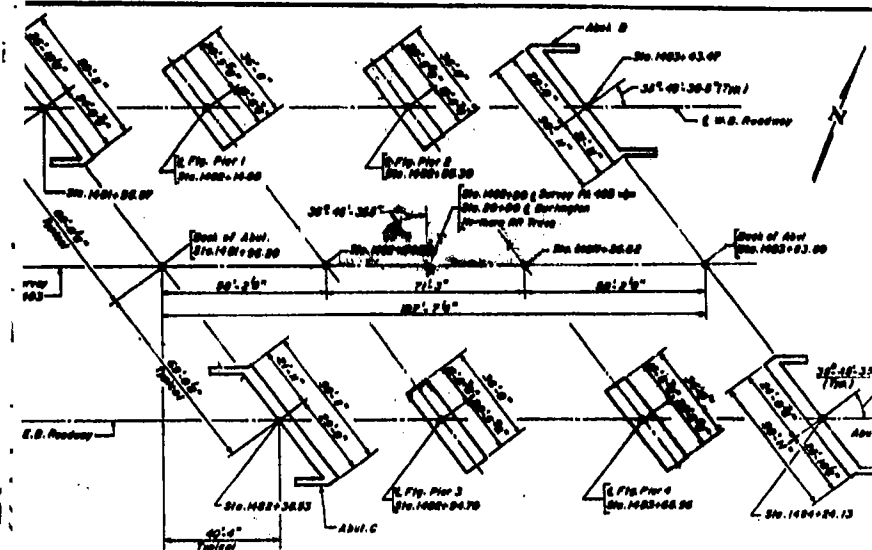
Bars indicated thus 30 x 7 - #5 etc. indicates 30 lines of bars with 7 lengths per line. Min bar laps = 24 dia. Work this sheet with sheet No. 5

DESIGNED	BYM
CHECKED	AA
DRAWN	AM
CHECKED	BYM

HALF DECK PLAN - EAST BRIDGE
WEST

DECK DETAILS

PA 405 SECTION 105-1V8
PA 405 OVER BURLINGTON NORTHERN R.R.
SUSSEX COUNTY
STATION 105+00.00



ROUTE NO.	SECTION	COUNTY	TOTAL SUSPETS	SUSP NO.
D. S. I F. A. 403	198- T-2	WHITESIDE	230	97
PGS. 2848-2849, 285-9		ILLINOIS	PGS. 418-419 PG. 287.	

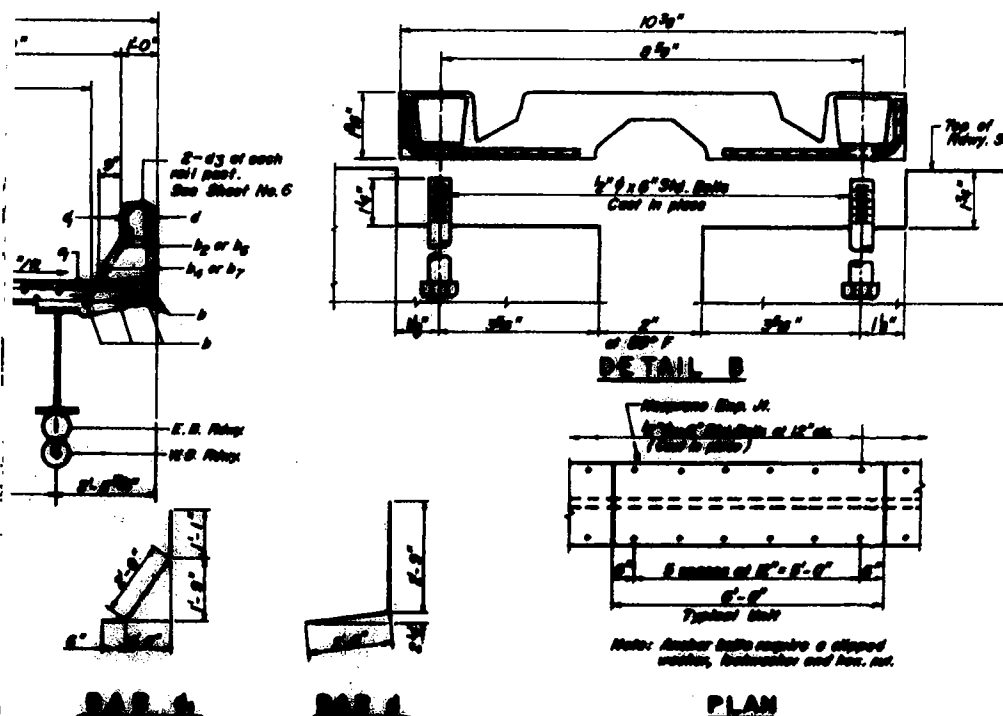
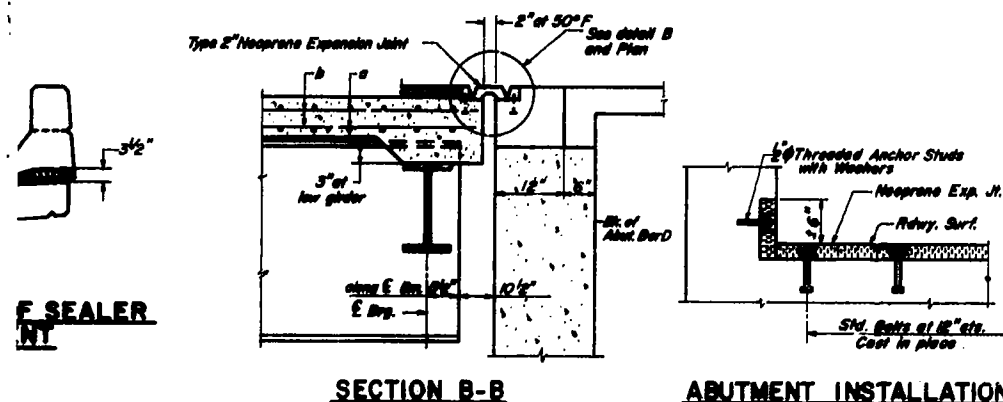
BILL OF MATERIAL				
BAR	NO.	SIZE	LENGTH	SHAPE
a	800	#5	40'-0"	—
a	400	#5	4'-0"	—
b	672	#5	27'-5"	—
b1	84	#5	21'-9"	—
b2	16	#5	24'-6"	—
b3	16	#5	8'-6"	—
b4	16	#5	24'-6"	—
b5	16	#5	8'-6"	—
b6	8	#5	27'-9"	—
b7	8	#5	27'-4"	—
d	368	#4	4'-9"	J
d1	364	#5	3'-7"	J
Reinforcement Bars			Lbs.	65,93
Class X Concrete			Cu. Yds.	227.4
Structural Steel			Lbs.	100,690
Protective Coat			Sq. Yds.	133
Int. Conc. Surface Course Class			Ton	66
Waterproofing Mem. Sgs.			Sq. Yds.	785
2 1/2" Preformed Joint Sealer			Lin. Ft.	52
8" Neoprene Joint			Lin. Ft.	80

**Note: Bill of Material - for one Bridge only.
Material for two Bridges required.**

****Weight of bearing assemblies with lead plates and anchor bolts are included as Structural Steel.**

* Parapet Reinforcement and Class K Concrete are billed on sheet No. 6

Note: Mark this sheet with sheet No. 4



DECK DETAILS
FA 406 SECTION 106-1VB
FA 406 OVER DUBLINGTON NORTHERN R. R.
WHITESIDE COUNTY
STATION 106+00.00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5
198-	1-2	WHITEHIDE	230	97	16 SHEETS
FA 408					
FOR ROAD DIST. NO. 1	ILLINOIS	FOR AID PROJECT			

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a	800	#5	40'-0"	—
a	400	#5	4'-0"	—
b	672	#5	27'-5"	—
b1	84	#5	21'-5"	—
b2	16	#5	24'-5"	—
b3	16	#5	6'-5"	—
b4	16	#5	24'-5"	—
b5	16	#5	6'-5"	—
b6	8	#5	27'-5"	—
b7	8	#5	27'-4"	—
c	368	#4	4'-5"	—
d1	364	#5	3'-7"	—

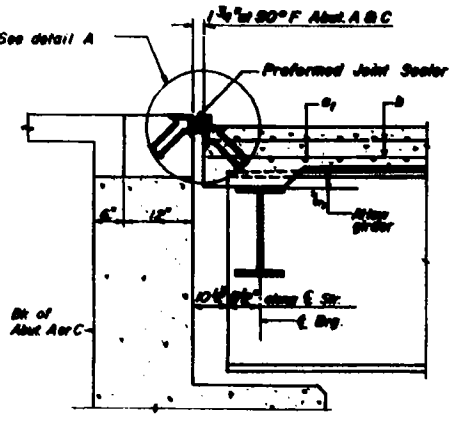
* Reinforcement Bars	Lbs.	62,880
* Class X Concrete	Cu. Yds.	227.4
* Structural Steel	Lbs.	189,880
* Protective Coat	Sq. Yds.	133
* Bit. Conc. Surface Course Class	Ton	66
* Waterproofing Mem. Sgs.	Sq. Yds.	785
* 2" Preformed Joint Sealer	Lbs. Ft.	52
* 2" Neoprene Joint	Lbs. Ft.	50

Note: Bill of Material - for one bridge only. Material for two bridges required.

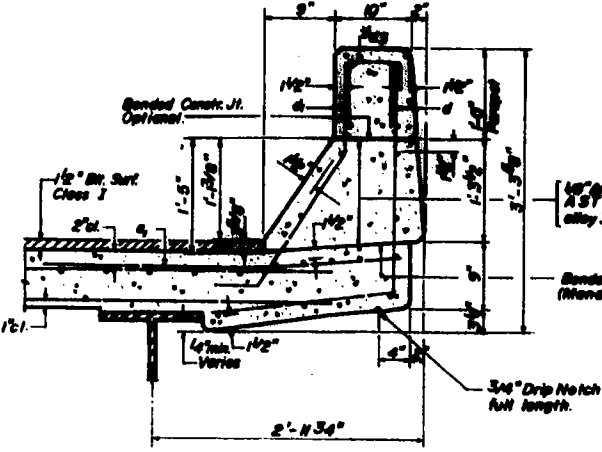
** Weight of bearing assemblies with lead plates and anchor bolts are included as Structural Steel.

* Parapet Reinforcement and Class X Concrete are billed on sheet No. 6

Note: Work this sheet with sheet No. 4

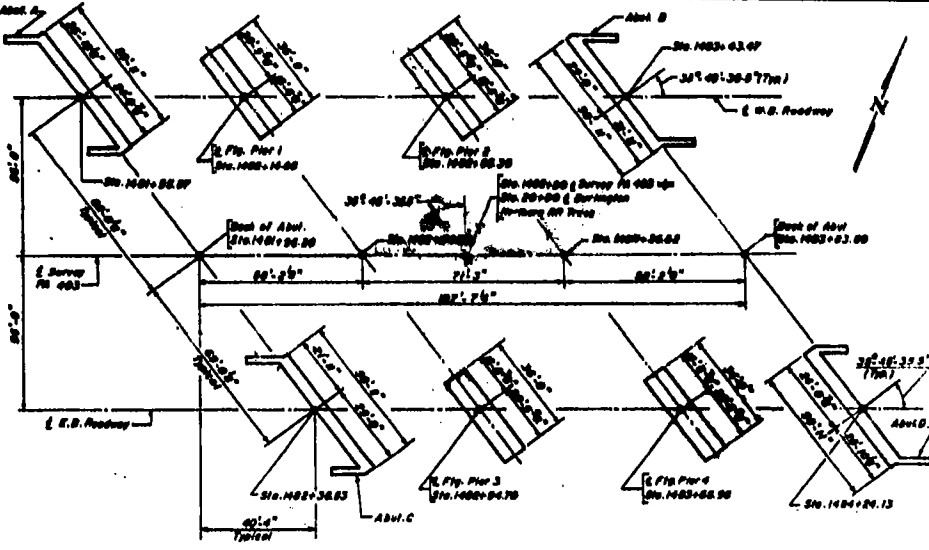


SECTION A-A

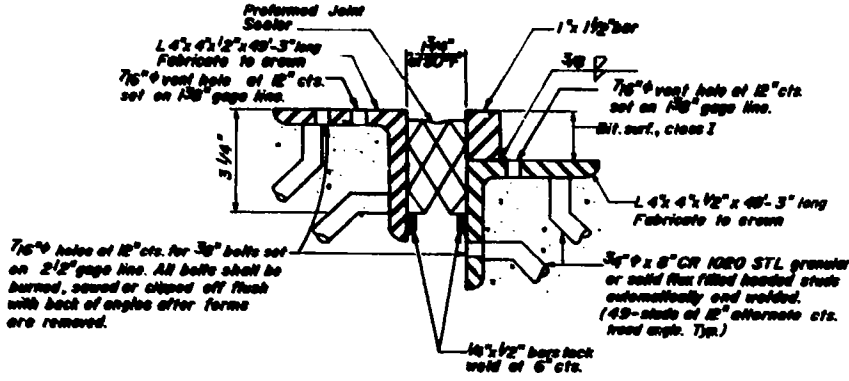


CURB SECTION

Cost of Aluminum Sheets and Drains shall be incidental to Class X Concrete.

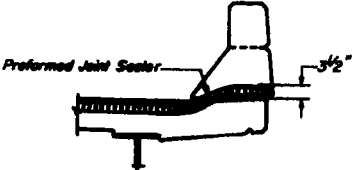


FOOTING LAYOUT

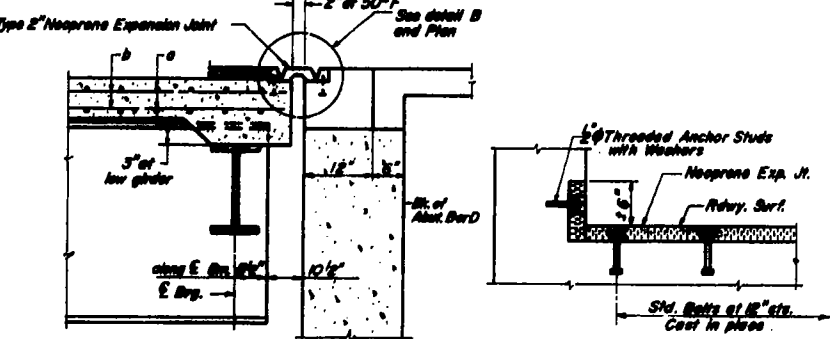


DETAIL A
Scale: 3/8"=1'

PREFORMED JOINT SEALER (2") AT ABUT. A B C

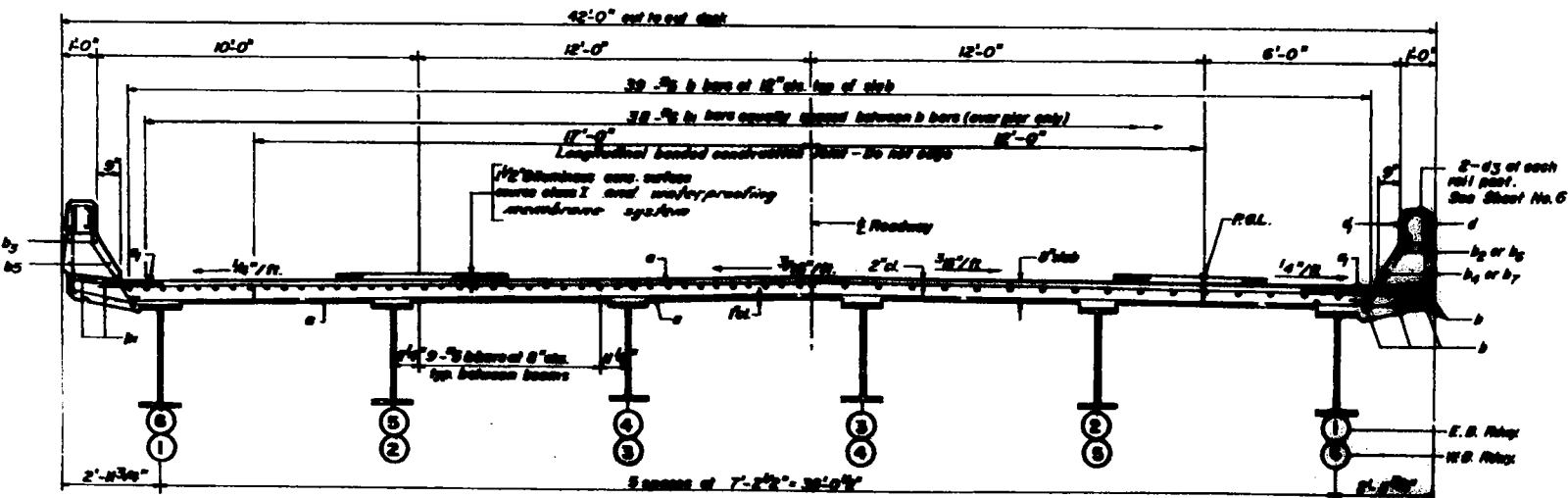


TYPICAL END OF SEALER TREATMENT



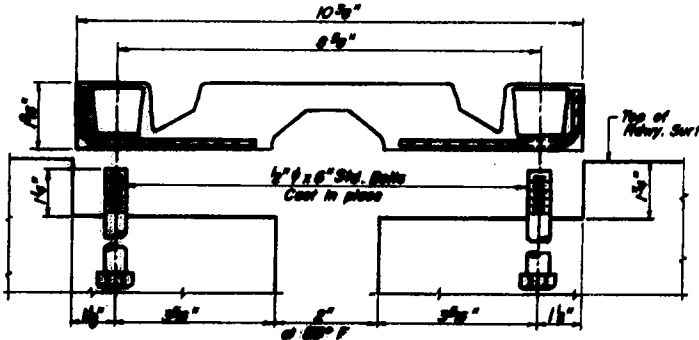
SECTION B-B

ABUTMENT INSTALLATION

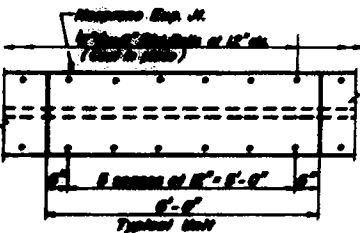


CROSS SECTION

SEE BRIDGE LAYOUT SHEET FOR E.B. BRIDGE LAYOUT VIEW



DETAIL B



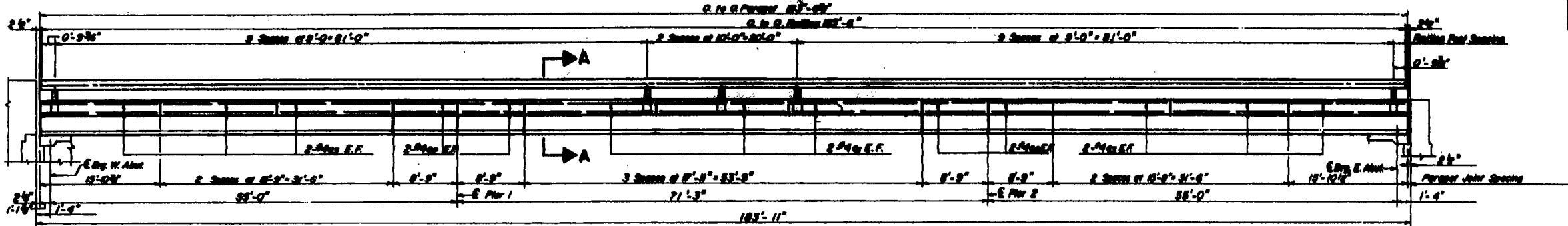
PLAN

DESIGNED	B.T.M.
CHECKED	A.A.
DRAWN	A.S.
CHECKED	B.T.M.

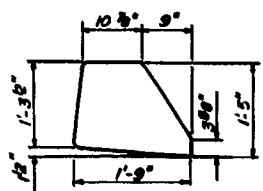
DECK DETAILS

FA 408 SECTION 195-198
FA 408 OVER BURLINGTON NORTHERN R.R.
WHITEHIDE COUNTY
STATION 1402+9000

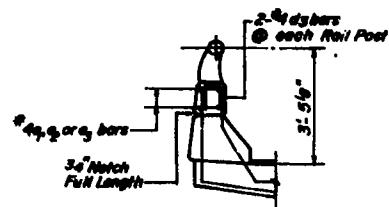
ROUTE NO.	SECTOR	COUNTY	TOTAL SHEETS	SHEET NO.
U. S. N. P. A. 408	1-2	WHITE SIDE	230	88
FED. ROAD DIST. NO. 7		RAMP	FED. AID PROJECT.	



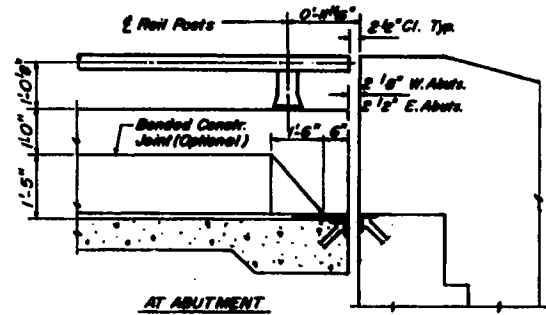
PARAPET & RAILING ALONG NORTH FASCIA
(SOUTH FASCIA SIMILAR)



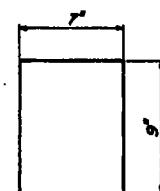
18" ALUMINUM SHEET
COST INCIDENTAL



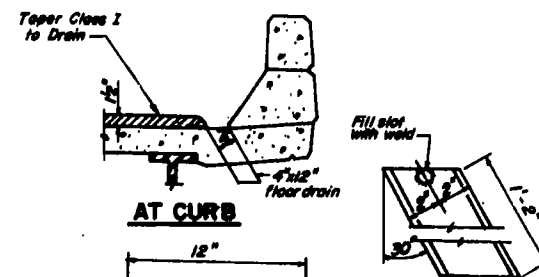
SECTION A-A



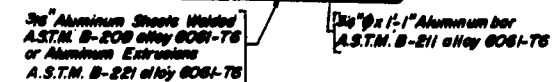
INSIDE VIEW OF PARAPET



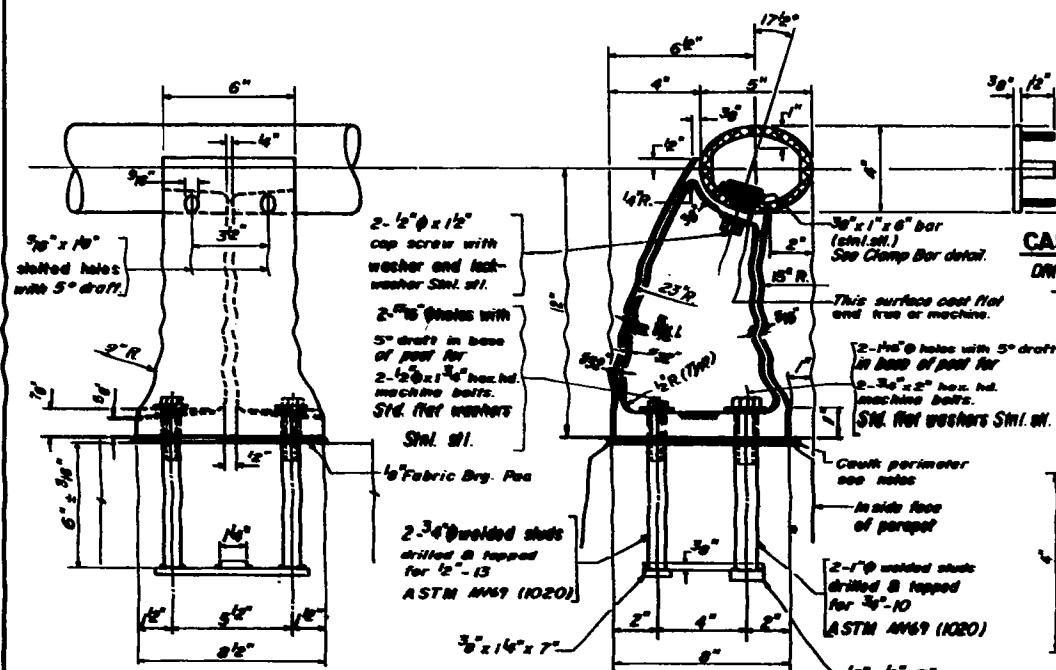
BAR d₃



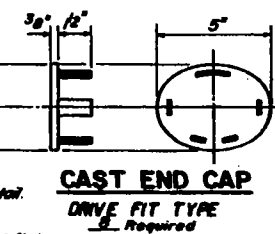
END VIEW



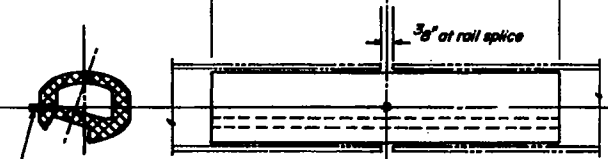
TOP VIEW
FLOOR DRAINS
(COST INCIDENTAL)



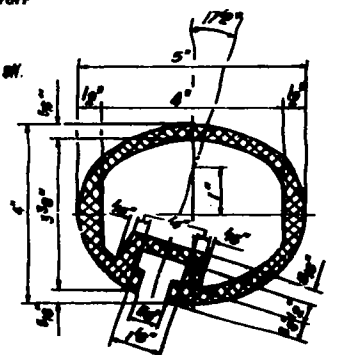
RAIL POST DETAILS



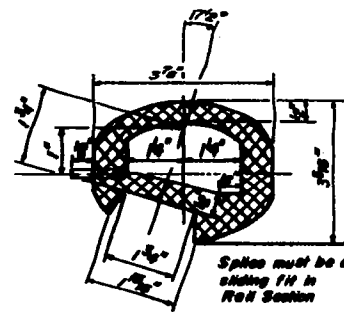
CAST END CAP
DRIVE FIT TYPE
8 Required



RAIL SPLICE



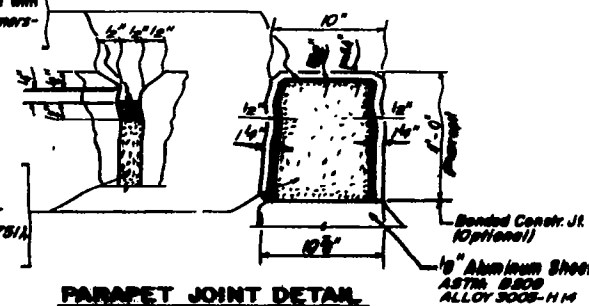
SEC. THRU ELLIPTICAL
RAIL SECTION



SEC. THRU SPLICE



CLAMP BAR



PARAPET JOINT DETAIL

NOTES:

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 5000 feet radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All jobs in full shall be completed per contract.

Provide 1 - 1/2" and 2 - 1/2" minimum drains for 25% of the Pools. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Soal partner of base of post to parapet with two component non-slaking gray mortar composed of natural fine sand, pozzolans and grade with primer. Faint staining red stain and small irregular on base of pipe.

Abandon only red steel conform to ASTM A501 alloy 6061-T6 or 6061-T6 with min. yield 35 ksi, min. tensile 50 ksi, and elongation of 15% in 2 inches.

DESIGNED	R.T.M.
CHECKED	A.A.
DRAWN	A.M.
CHECKED	A.A.

[illegible]

PARAPET AND RAILING

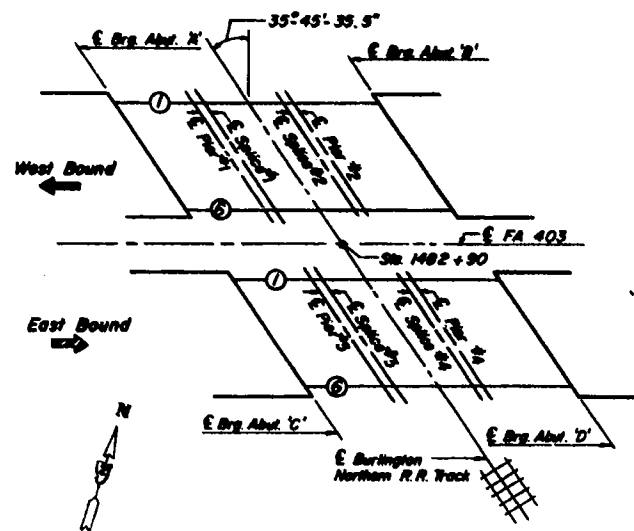
FA 403 SECTION 195-1 VR

FA 405 OVER BURLINGTON NORTHERN R.R.

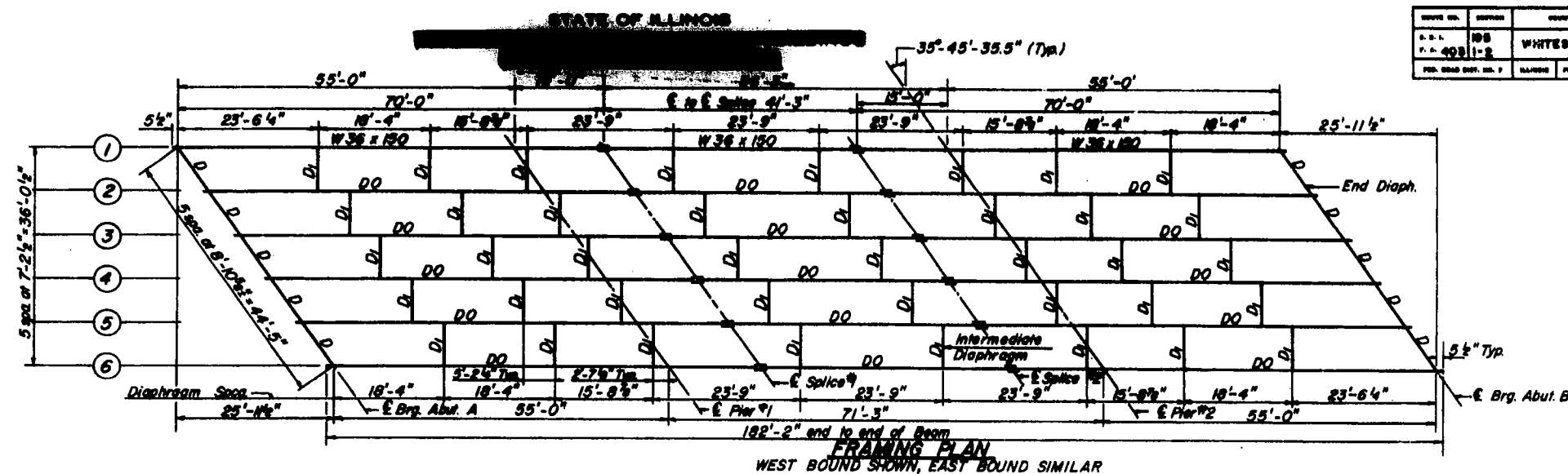
WHITEHIDE COUNTY

STATION 1482 + 90.00

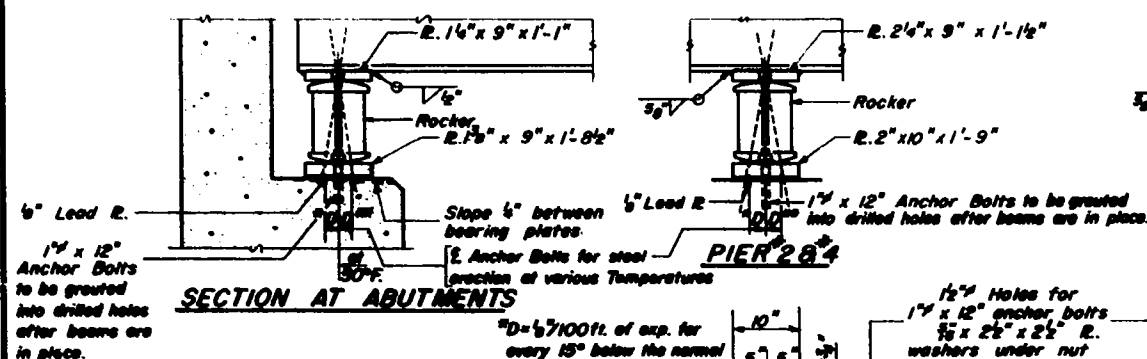
STATE	COUNTY	TOTAL SHEETS	SHEET NO.	DATE
ILLINOIS	WHITESIDE	230	99	
PROJECT NO.	FA 403	SECTION	195-1 VB	
DESIGNED BY	PK.	CHECKED BY	HRS.	
DRAWN BY	AS.	CHECKED BY	HRS.	



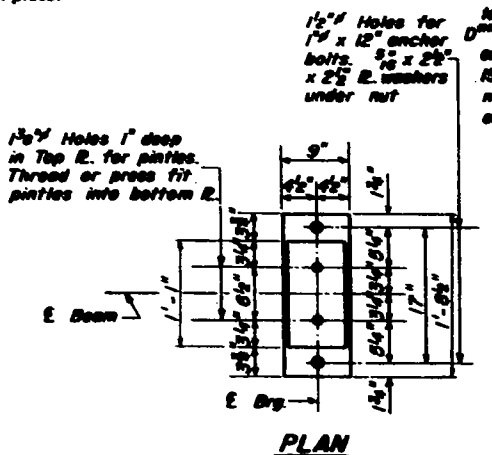
KEY PLAN



FRAMING PLAN
WEST BOUND SHOWN, EAST BOUND SIMILAR

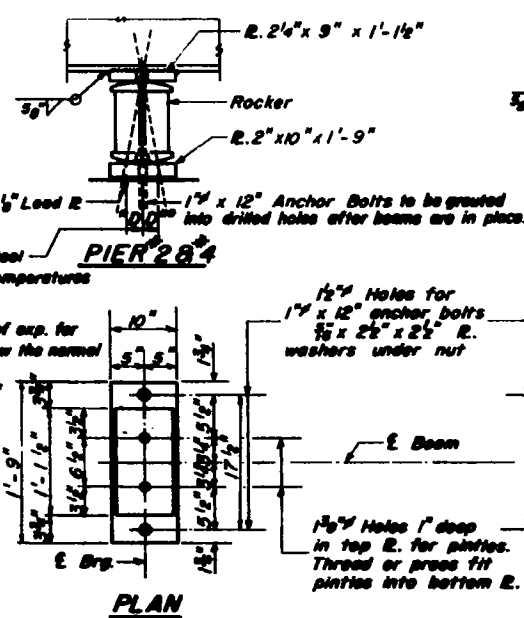


SECTION AT ABUTMENTS

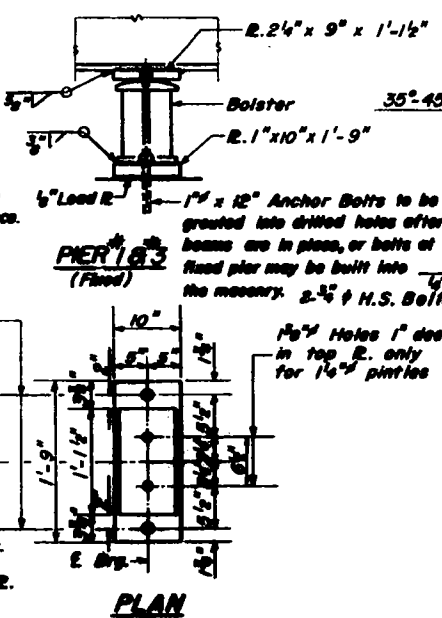


PLAN

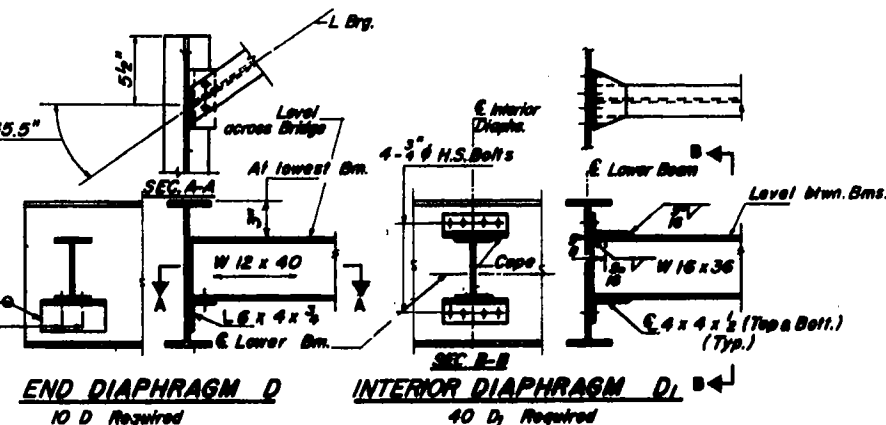
DETAIL OF PINTLE



PLAN

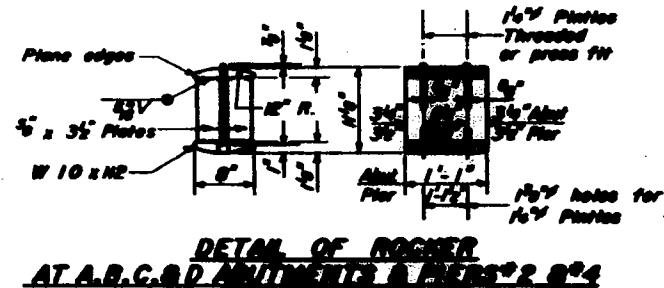


PLAN

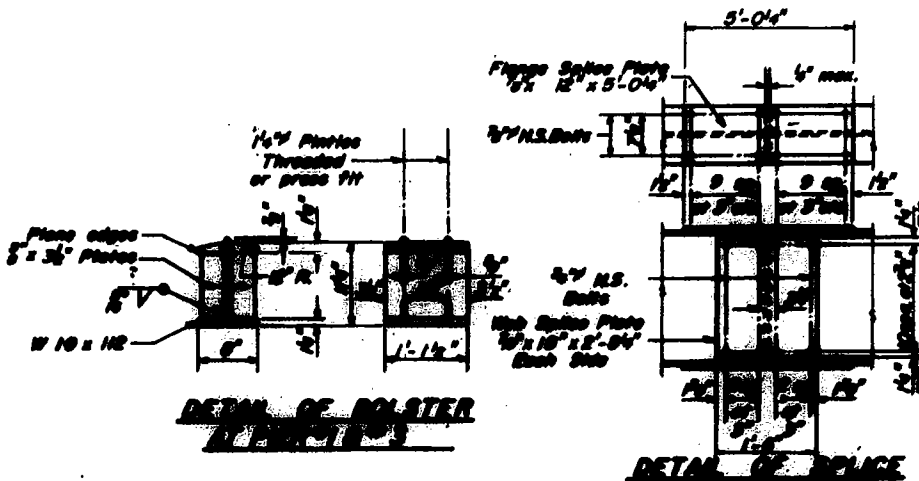


END DIAPHRAGM D
10 D Required

INTERIOR DIAPHRAGM D1
40 D1 Required



DETAIL OF ROCKER
AT A.B.C.D. ABUTMENTS & PIERS 284



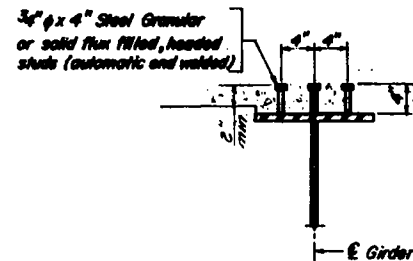
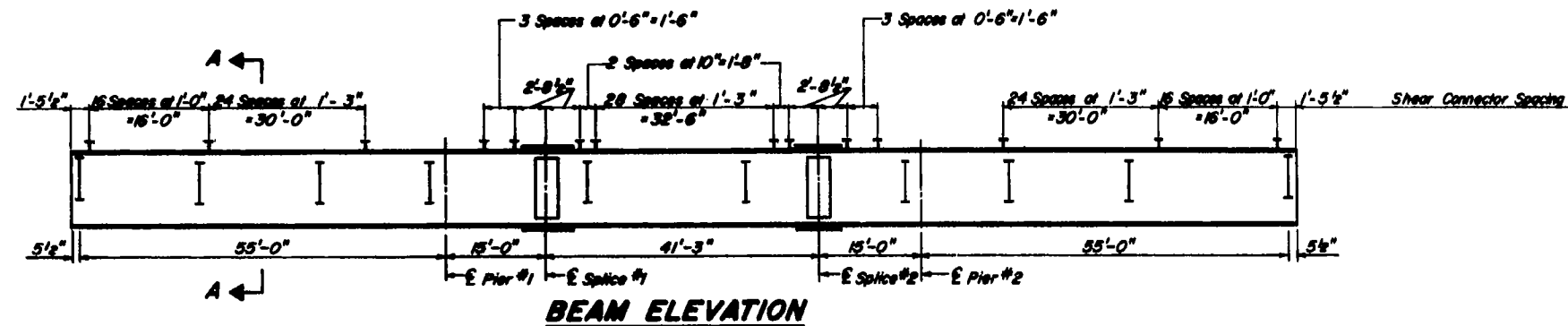
DETAIL OF BOLSTER
PIER 183

DETAIL OF PLATE

Work this sheet with sheet No. 6

SUPERSTRUCTURE STEEL
FA 403 SECTION 195-1 VB
FA 403 OVER BURLINGTON NORTHERN R.R.
WHITESIDE COUNTY
STATION 1482+98.09

DESIGNED	PK.
CHECKED	HRS.
DRAWN	AS.
CHECKED	HRS.

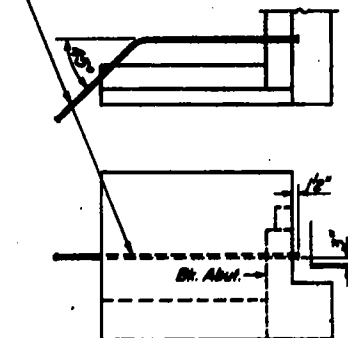


WEST BOUND BRIDGE

* TOP OF BEAM ELEVATIONS

LOCATION	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6
E Brg. Abut. 'A'	626.743	626.900	627.023	627.091	626.963	626.853
E Pier 1	626.723	626.874	626.990	627.051	626.936	626.800
E Splice 1*	626.791	626.940	627.054	627.113	626.996	626.858
E Splice 2*	626.756	626.900	627.009	627.063	626.941	626.797
E Pier 2	626.663	626.805	626.912	626.964	626.841	626.695
E Brg. Abut. 'B'	626.591	626.725	626.825	626.871	626.740	626.588

Locate 2" Galv. Conduit (Sch. 40 Pipe) 1/2" inside of flange beam web and parallel to beam line. Extend to clear the wing wall and terminate at a point outside of shoulder. Thread and cap each end. Place conduit at the four outside corners of each dual bridge (4-Place) Cool Incident



(Composite in positive moment areas only)

INTERIOR GIRDER MOMENT TABLE			
	0.4 Span to 3	Pier 1 or 2	0.5 Span 2
I_s (in ⁴)	9030	9030	9030
I_c (in ⁴)	22969	—	22969
S_s (in ³)	904	504	904
S_c (in ³)	726.27	—	726.27
M (ft-k)	0.895	0.895	0.895
M_R (ft-k)	179.25	364.04	203.87
$I_s R$ (ft-k)	4.27	8.67	4.85
$S R$ (ft-k)	0.406	0.406	0.406
$M_s R$ (ft-k)	9577	129.0	129.62
$M_k + Imp$ (ft-k)	519.6	306.1	583.20
Total (ft-k)	615.37	435.1	711.82
$I_s L$ (ft-k)	10.17	10.36	11.76
I_s Total (ft-k)	14.44	19.03	16.63
VR (ft-k)	52.00	—	52.5

INTERIOR GIRDER REACTION TABLE		
	Abutment	Pier
R_B (k)	26.8	91.0
$R_k + Imp$ (k)	54.9	64.8
R Total (k)	81.7	155.8

EAST BOUND BRIDGE

* TOP OF BEAM ELEVATIONS

LOCATION	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6
E Brg. Abut. 'C'	626.854	626.984	627.092	627.064	626.902	626.745
E Pier 3	626.724	626.847	626.948	626.874	626.745	626.582
E Splice 3*	626.782	626.883	626.982	626.907	626.775	626.610
E Splice 4*	626.645	626.782	626.886	626.775	626.638	626.467
E Pier 4	626.522	626.637	626.729	626.648	626.508	626.335
E Brg. Abut. 'D'	626.340	626.447	626.533	626.443	626.298	626.119

* For fabrication only.
* * Top of Splice

Work this sheet with sheet No. 7

DESIGNED	H.R.S.
CHECKED	A.A.
DRAWN	Z.W.
CHECKED	A.A.

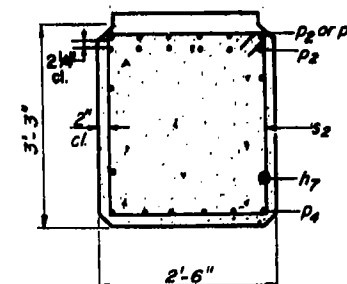
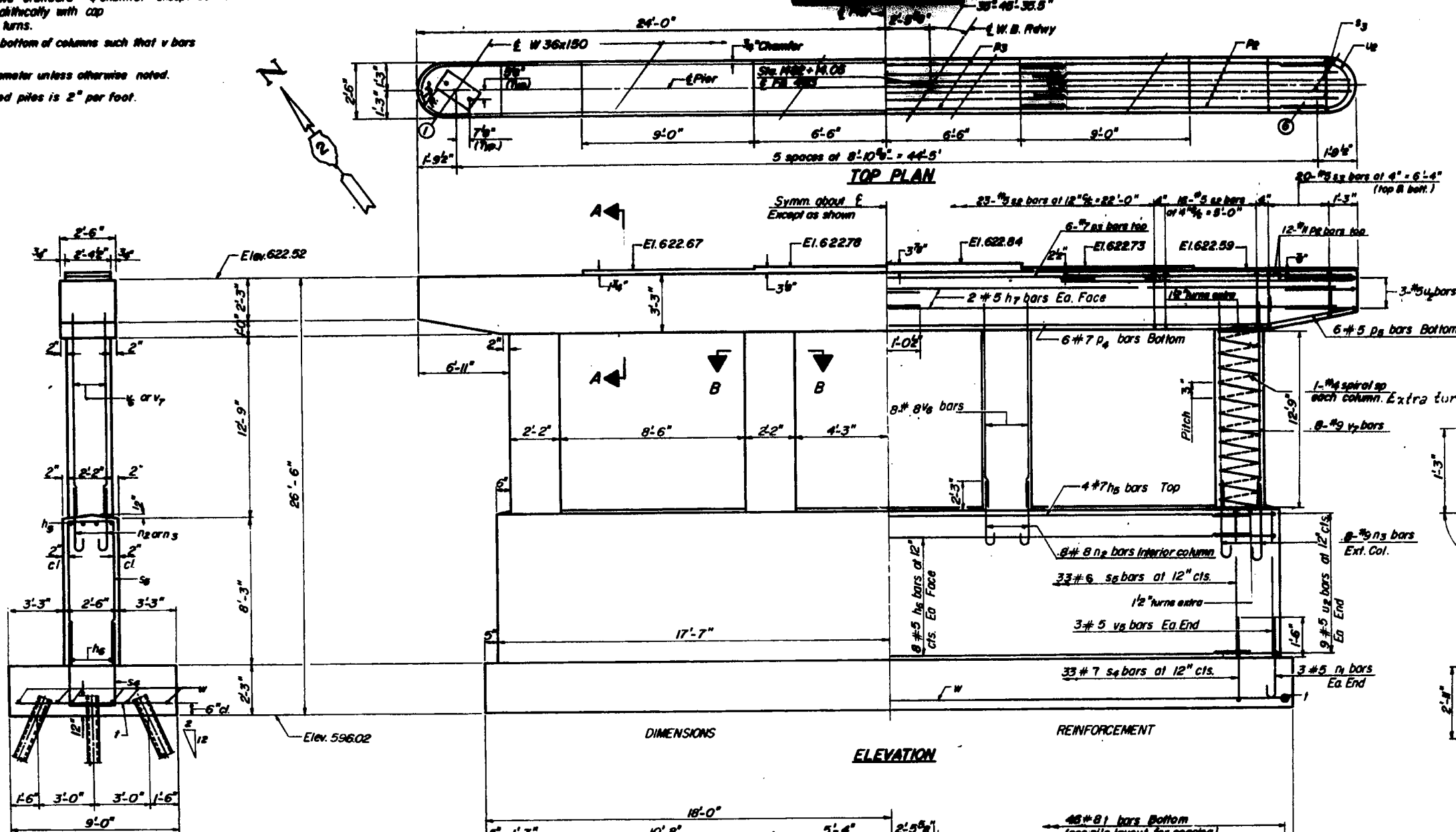
I_s and S_s are the moment of inertia and section modulus of steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing ft.
 V_R is the maximum ft. + Impact Shear range in span.

SUPERSTRUCTURE STEEL
FA 405 SECTION 105-1 VS
FA 405 OVER BURLINGTON NORTHERN R.R.
WHITESIDE COUNTY
STATION 1482 + 90.00

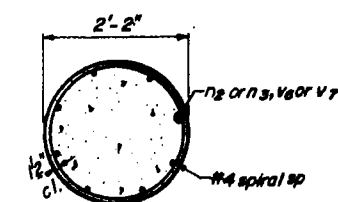
NOTES:

Space Reinforcement in cap to miss anchor bolts.
All edges shall have standard $\frac{1}{4}$ " chamfer except as noted.
Four steps monolithically with cap
Min Spiral lap = $1\frac{1}{2}$ turns.
Locate n bars in bottom of column such that v bars will lap them.
Bar top is 24 diameter unless otherwise noted.
Batter of battered piles is 2" per foot.

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
PA 403	1-2	230	101
PA 403	1-2	230	101



SEC. A-A



SEC. B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h8	4	#7	32'-9"	
h9	16	#5	32'-9"	
h7	8	#5	23'-5"	
n1	6	#5	3'-10"	
n2	16	#5	5'-7"	
n3	16	#5	6'-3"	
p2	24	#11	14'-10"	
p3	6	#7	24'-0"	
p4	6	#7	34'-0"	
p5	12	#5	7'-0"	
s2	28	#5	11'-1"	
s3	20	#5	8'-2"	
s4	33	#7	8'-8"	
s5	33	#6	10'-4"	
sp	4	#4	225'-8"	www
1	48	#8	8'-8"	
u2	24	#5	8'-11"	
v2	6	#5	8'-1"	
v3	16	#5	14'-8"	
v7	16	#5	16'-0"	
w	6	#7	30'-8"	

Class 1 Concrete
Reinforcement Bars
Steel Piles (PA 403)
Test Pile

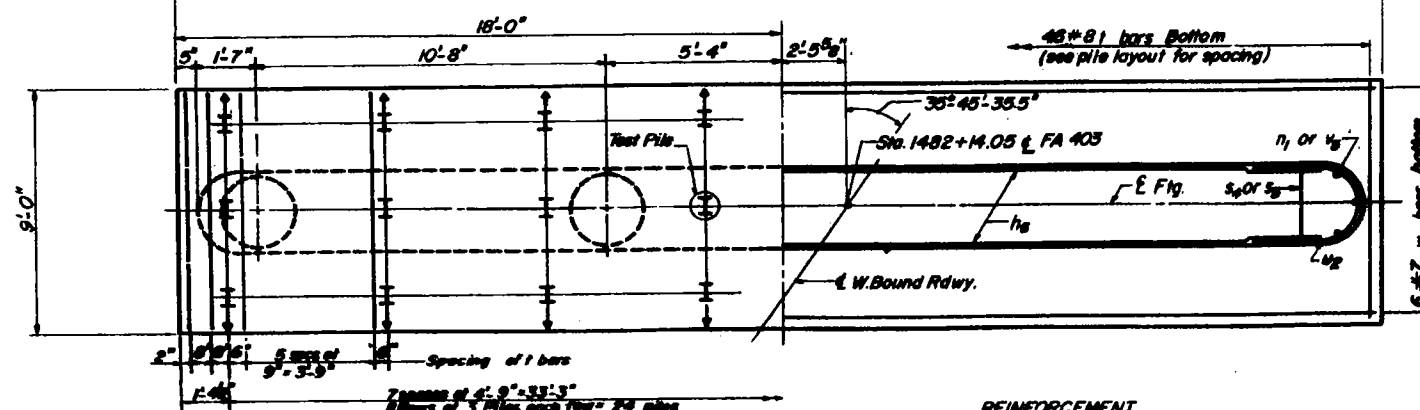
PIER #1

PA 403 SECTION 100-100
PA 403 OVER EXISTING STRUCTURE
WHITEHOLE CANYON
MAY 1962

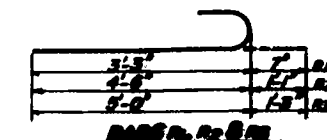
PILE DATA

Type: HP 10x42 Steel Piles
Capacity: Refusal
Est. Length: 27'
No. Required: 24 (Including one test pile)

DESIGNED	H.R.S.
CHECKED	R.A.
DRAWN	A.M.
CHECKED	R.A.



REINFORCEMENT



REINFORCEMENT

NOTES:

Space Reinforcement in cap to miss anchor bolts.
All edges shall have standard 3/4" chamfer except as noted.
Pour steps monolithically with cap.
Min Spiral lap=1 1/2 turns.

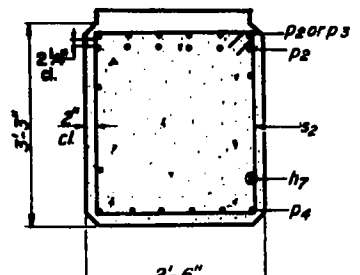
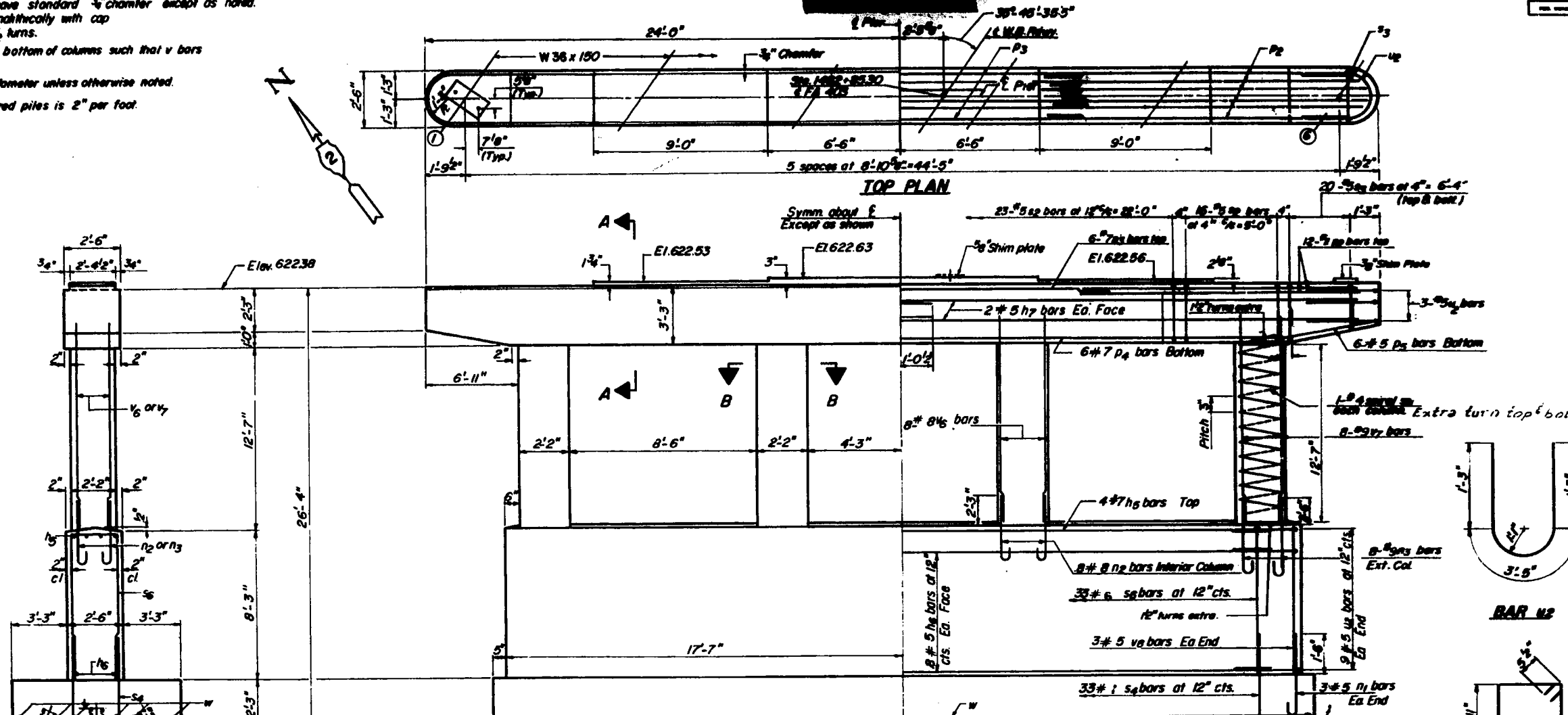
Locate n bars in bottom of columns such that v bars will lap them.

Bar lap is 24 diameter unless otherwise noted.

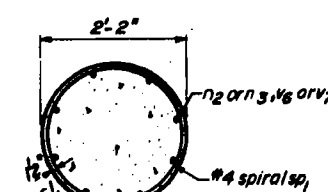
Batter of battered piles is 2" per foot.

STATE OF ILLINOIS

PROJECT NO.	DATE	REVISION	BY	CHKD	DATE
405	1-2	WHITEHIDE	230	102	
SHEET NO. 10					
16 SHEETS					



SEC. A-A



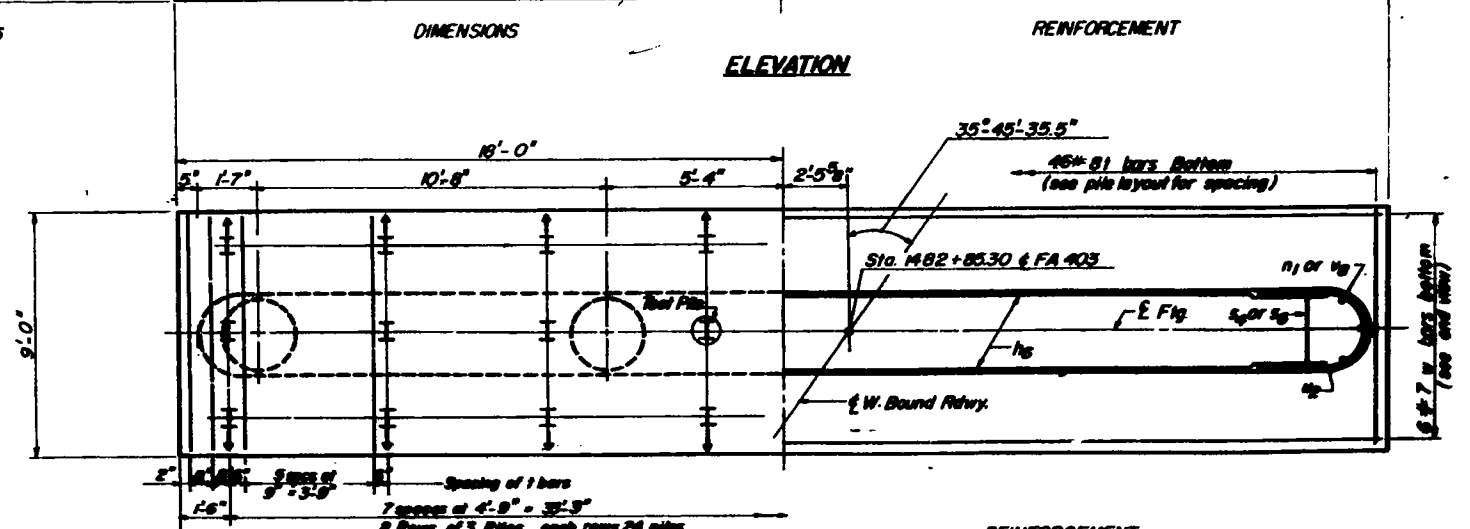
SEC. B-B

END VIEW

PILE DATA

Type:	HP 10 x 42 Steel Piles
Capacity:	Refusal
Est. Length:	15'
No. Required:	24 (including 1 test pile)

DESIGNED	H.R.S.
CHECKED	R.A.
DRAWN	A.M.
CHECKED	R.A.



FOOTING PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1	4	#7	38'-0"	
h2	16	#5	32'-0"	
h3	8	#5	25'-0"	
n1	6	#5	3'-10"	
n2	16	#8	5'-7"	
n3	16	#8	6'-3"	
p1	24	#11	14'-10"	
p2	6	#7	24'-0"	
p3	6	#7	34'-0"	
p4	12	#5	2'-0"	
s1	88	#5	11'-1"	
s2	80	#5	6'-5"	
s3	33	#7	8'-6"	
s4	33	#6	16'-4"	
sp1	4	#4	421'-0"	
1	16	#8	10'-6"	
u1	24	#5	5'-1"	
v1	16	#8	14'-8"	
v2	16	#8	18'-0"	
v3	6	#8	6'-1"	
v4	6	#7	35'-0"	

ALL DIMENSIONS

h1	4	#7	38'-0"
h2	16	#5	32'-0"
h3	8	#5	25'-0"
n1	6	#5	3'-10"
n2	16	#8	5'-7"
n3	16	#8	6'-3"
p1	24	#11	14'-10"
p2	6	#7	24'-0"
p3	6	#7	34'-0"
p4	12	#5	2'-0"
s1	88	#5	11'-1"
s2	80	#5	6'-5"
s3	33	#7	8'-6"
s4	33	#6	16'-4"
sp1	4	#4	421'-0"
1	16	#8	10'-6"
u1	24	#5	5'-1"
v1	16	#8	14'-8"
v2	16	#8	18'-0"
v3	6	#8	6'-1"
v4	6	#7	35'-0"

NO. 405 WHITEHIDE 230 102
COUNTY

NOTES:

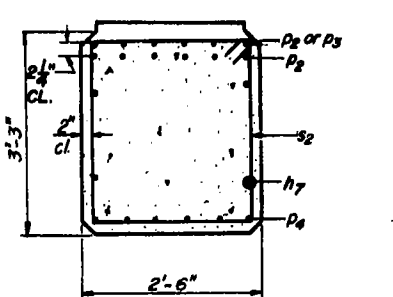
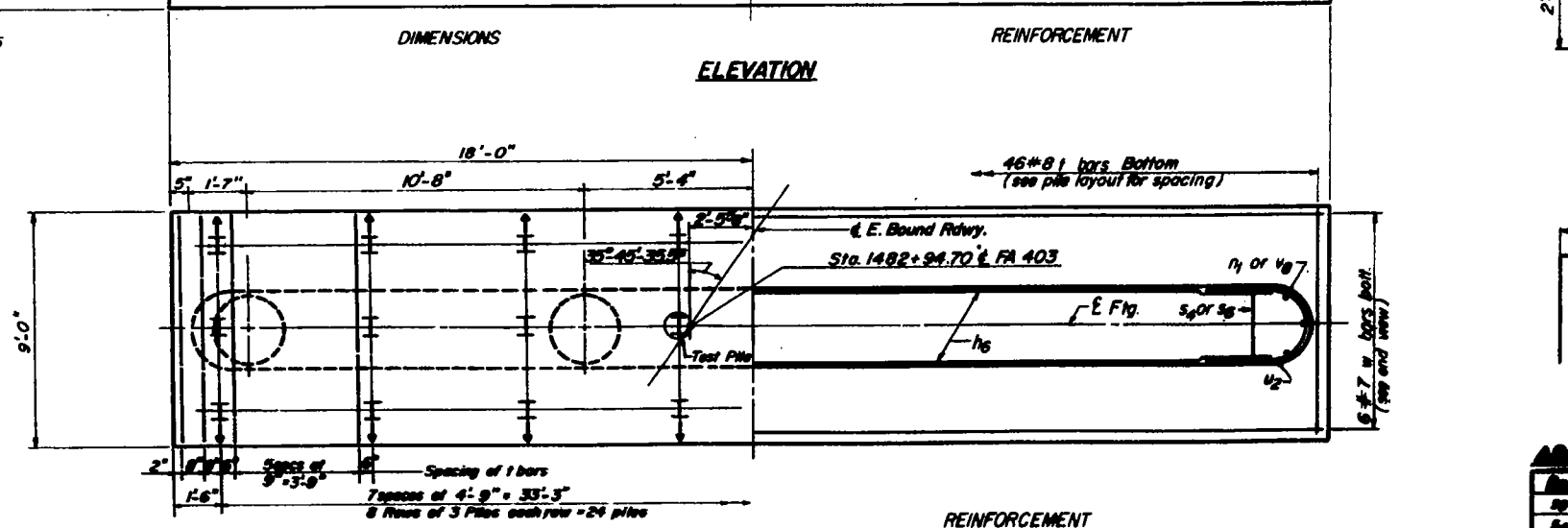
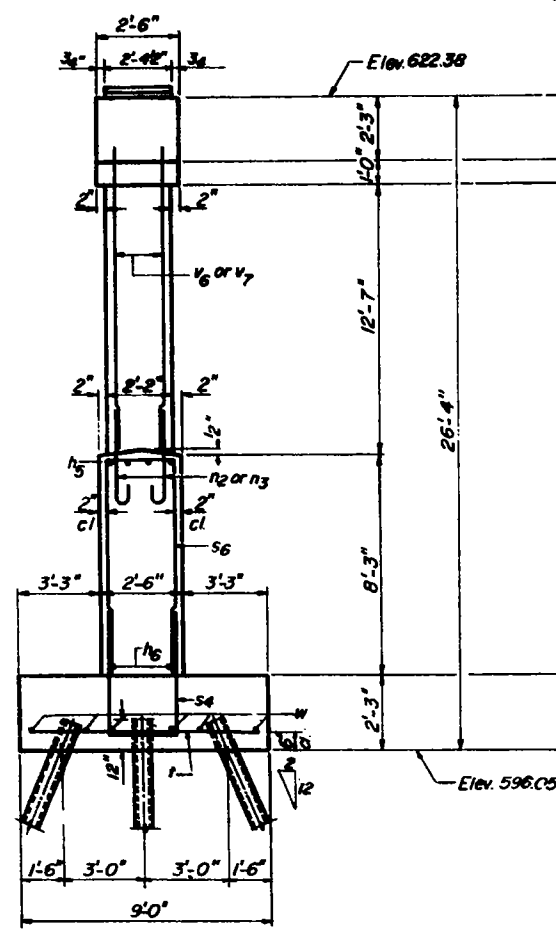
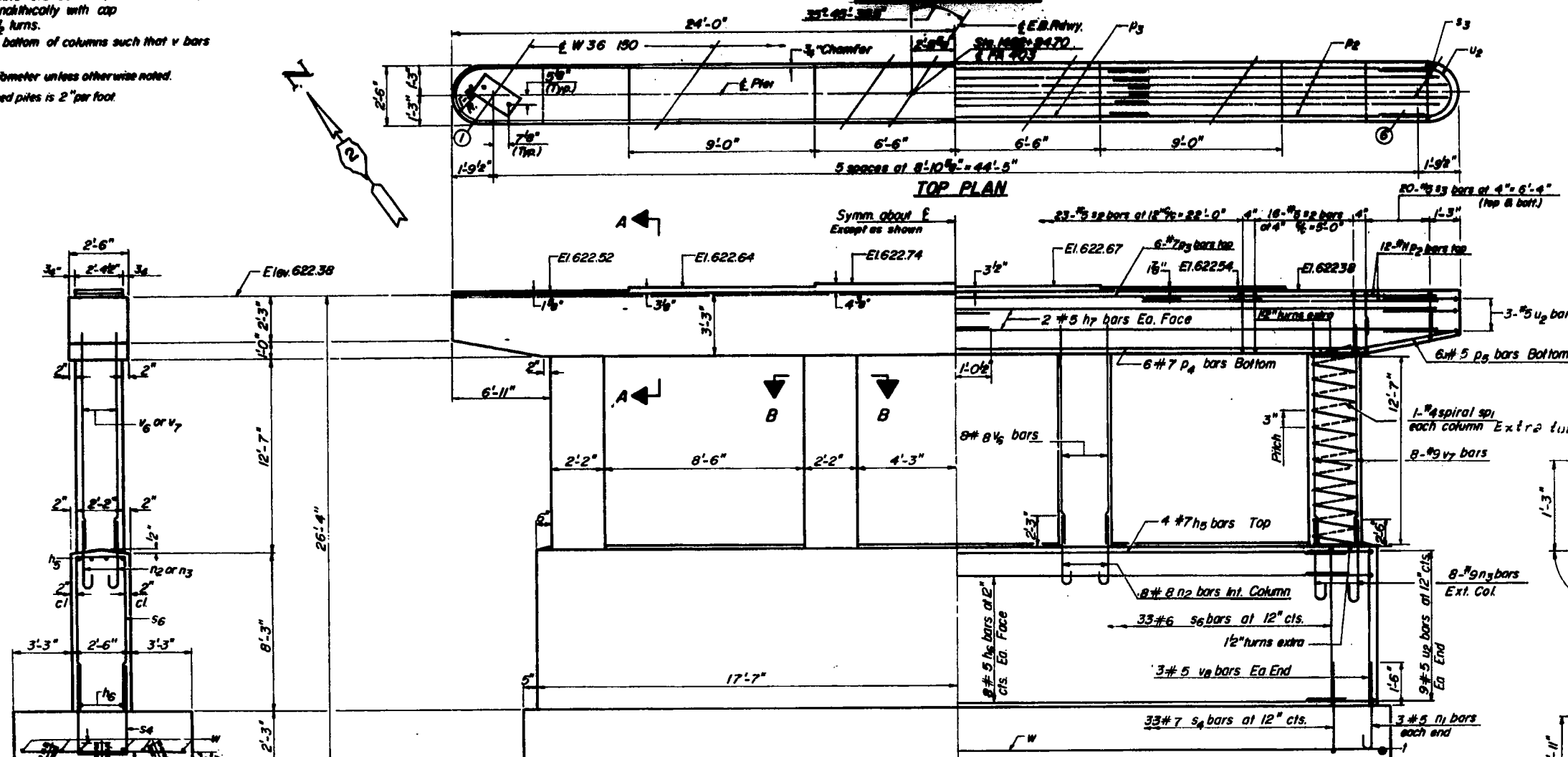
Space Reinforcement in cap to miss anchor bolts.
All edges shall have standard $\frac{3}{4}$ " chamfer except as noted.
Pour steps monolithically with cap.
Min Spiral lap=1 $\frac{1}{2}$ turns.

Locate n bars in bottom of columns such that v bars will lap them.

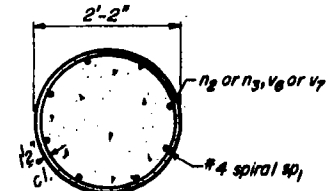
Bar lap is 24 diameter unless otherwise noted.

Batter of battered piles is 2" per foot.

ROUTE NO.	SECTION	COUNTY	PIER NO.	SHEET NO. N
408	1-2	WHITEBIDE	230	103
FA 408	SECTION 186-1V8	WHITEBIDE COUNTY		



SEC. A-A



SEC. B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h8	4	#7	32'-8"	U
h9	16	#8	32'-8"	U
h7	8	#5	23'-3"	U
n1	6	#5	3'-10"	U
n2	15	#8	5'-7"	U
n3	16	#9	6'-3"	U
p2	24	#11	14'-0"	U
p3	6	#7	24'-0"	U
p4	6	#7	34'-0"	U
p5	12	#5	7'-0"	U
s2	55	#5	11'-1"	U
s3	80	#5	6'-2"	U
s4	33	#7	6'-8"	U
s5	33	#6	10'-4"	U
sp1	4	#4	42'-9"	WWW
1	16	#8	8'-8"	U
u2	24	#5	5'-8"	U
v2	15	#8	14'-0"	U
v3	16	#9	15'-0"	U
v4	6	#8	8'-7"	U
v5	6	#7	32'-8"	U
Class 1 Concrete				
Class 2 Concrete				
Reinforcement Bars				
Steel Piles (HP 42)				
Test Pile				

PILE DATA

Type: HP 10x42 Steel Piles
Capacity: Refusal
Est. Length: 31'
No. Required: 24 (Including 1 test pile)

DESIGNED	H.R.S.
CHECKED	R.A.
DRAWN	A.M.
CHECKED	R.A.

PIER #3
FA 408 SECTION 186-1V8
FA 408 OVER BRIMINGTON NORTHERN RR
WHITEBIDE COUNTY
MISSISSIPPI

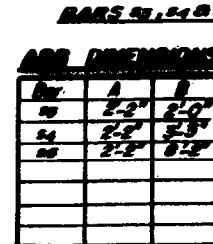
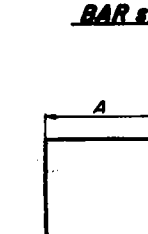
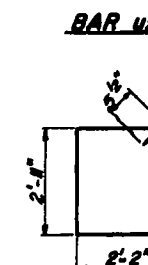
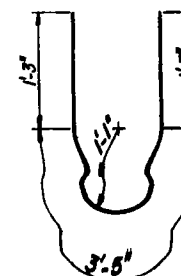
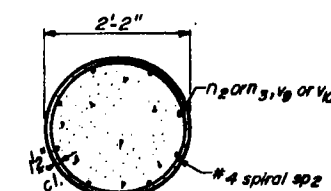
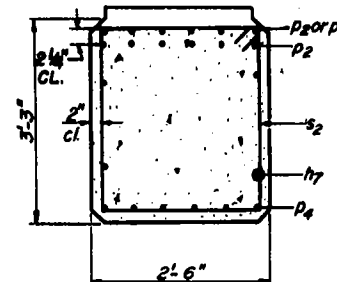
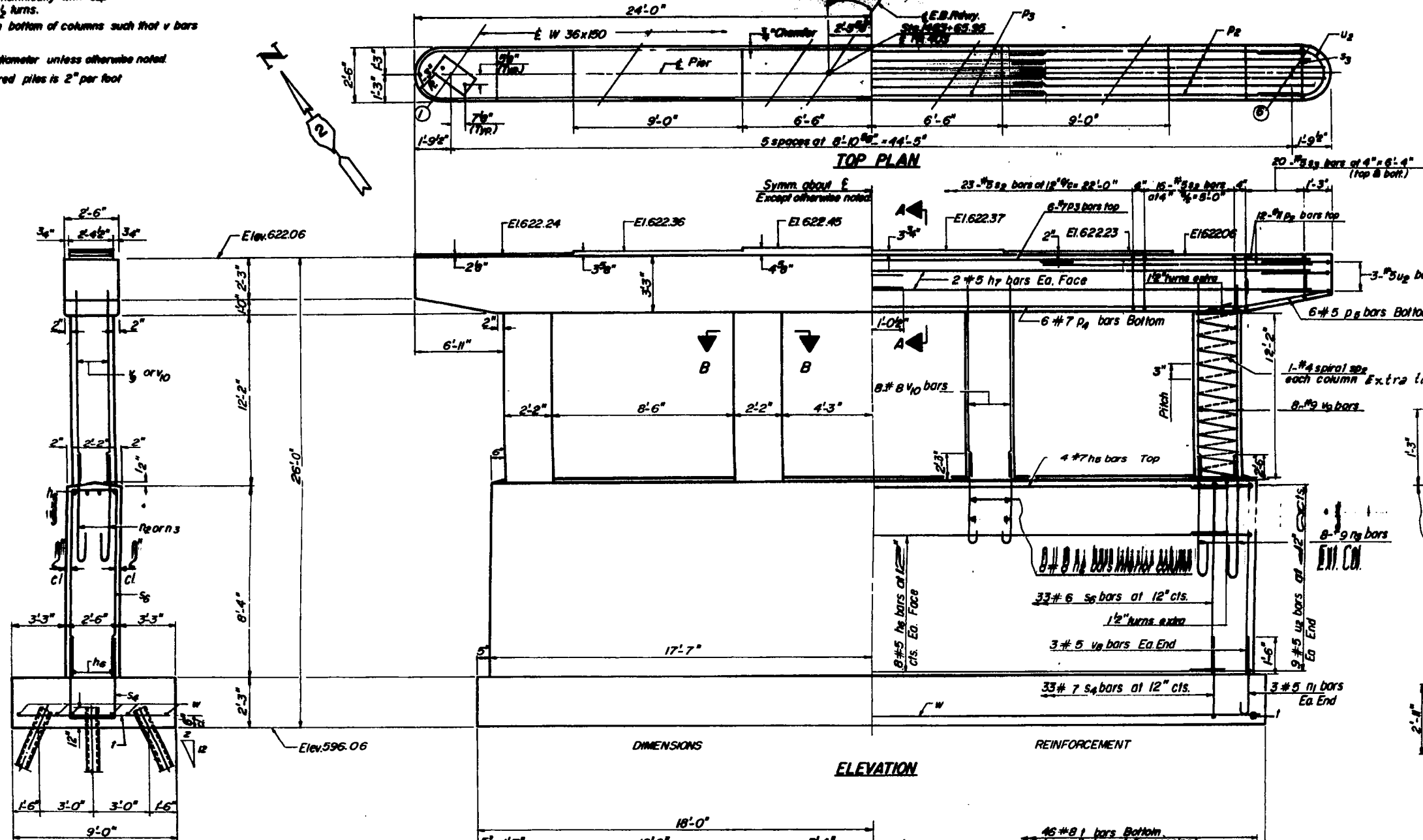
NOTES:

Space Reinforcement in cap to miss anchor bolts.
All edges shall have standard $\frac{3}{4}$ " chamfer except as noted.
Pour steps monolithically with cap.
Min Spiral lap= $\frac{1}{2}$ turns.
Locate n bars in bottom of columns such that v bars will lap them.
Bar lap is 24 diameter unless otherwise noted.
Batter of battered piles is 2" per foot

STATE OF ALABAMA

PROJECT NO.	SECTION	REVISION	DATE	BY
403	1-2	WHITEHIDE	208	104
FOR: STATE OF ALA. - 1				
DRAWN: FOR AND PROJECT				

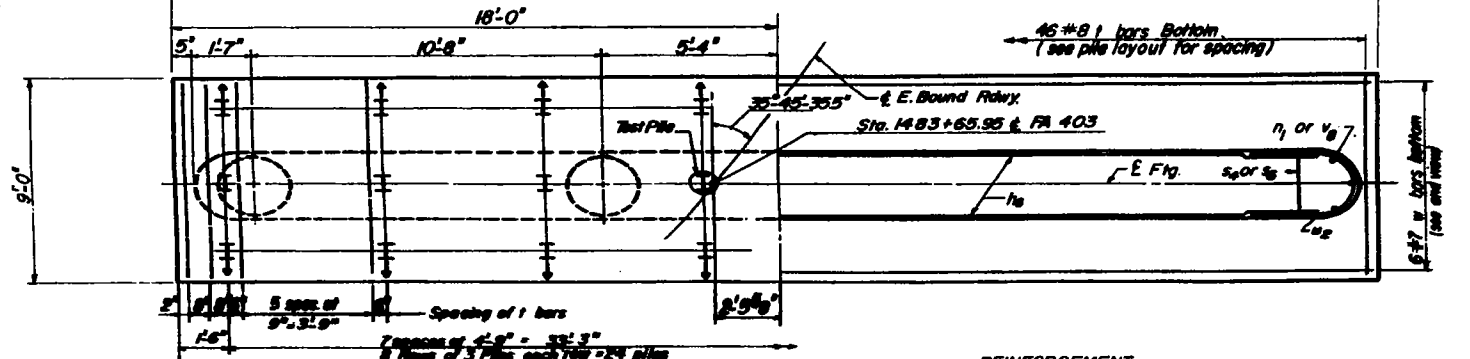
SHEET NO. 12
16 SHEETS



Bar	No.	Size	Length	Shape
h8	4	#7	32'-8"	U
h8	16	#5	32'-8"	U
h7	8	#5	28'-3"	U
n1	6	#5	3'-10"	U
n2	16	#8	5'-7"	U
n3	16	#9	8'-3"	U
p2	24	#11	14'-10"	U
p3	6	#7	24'-0"	U
p4	6	#7	34'-0"	U
p8	12	#5	7'-0"	U
s8	80	#5	11'-1"	U
s8	80	#5	6'-2"	U
s4	33	#7	8'-8"	U
s4	33	#6	18'-6"	U
sp2	4	#4	407'-6"	U
1	28	#8	6'-8"	U
u2	24	#5	8'-11"	U
u2	6	#5	8'-8"	U
u2	16	#5	14'-5"	U
v10	16	#8	10'-3"	U
v	6	#7	35'-8"	U

PILE DATA
Type: HP 10x42 Steel Piles
Capacity: Refusal
Est. Length: 35'
No. Required: 24 (including one test pile)

DESIGNED	HRS.
CHECKED	R.A.
DRAWN	A.M.
CHECKED	R.A.

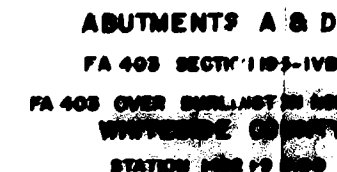


REINFORCEMENT

FOOTING PLAN

I Indicates direction of batter

PIER # 4
PA 400 OVER 100-110
PA 400 OVER 100-110
WATERWAY
CONCRETE



ADJUTANTS B & C
FA 403 SECTION 175-1VB
FA 405 OVER (BURLINGTON) NORTHERN RAIL
WHITESIDE COUNTY
STATION 1462 + 90.00