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 DGN LEVELS ON = 1-63

LINCOLN

9852-2-70
 9852-3-10, 4-70
 CHECKED BY: [Signature]
 BACK CHECKED BY: [Signature]
 CORRECTED BY: [Signature]

ch:ref ON = 1-13, 15-17, 59-63

INDEX OF SHEETS

Sheet No. 1	Title
Sheet No. 2	Typical Sections and Details
Sheet No. 3#3.1	Estimate of Quantities
Sheet No. 3A	Miscellaneous Quantities
Sheet No. _____	Right of Way Plat
Sheet No. 5	Plan and Profile
Sheet No. 6-6.4	Standard Detail Drawings
Sheet No. _____	Sign Plates
Sheet No. 8-8.6	Structure Plans
Sheet No. _____	Computer Earthwork Data
Sheet No. 9#9.1	Cross Sections

TOTAL SHEETS = 20



STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MIDDLE FORK COPPER RIVER BRIDGE AND APPROACHES

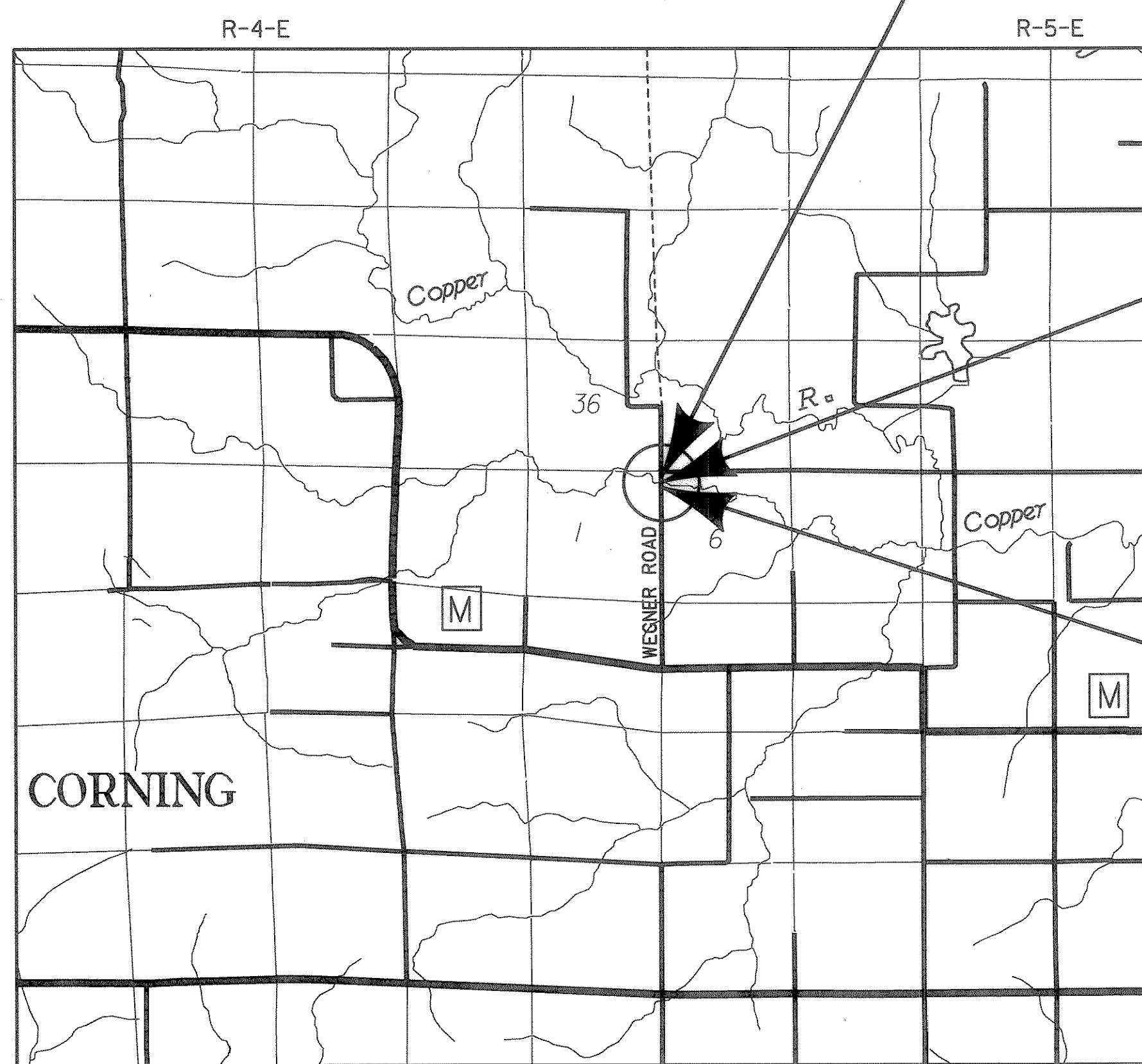
(WEGNER ROAD)
TOWN OF CORNING
 TOWN ROAD
 LINCOLN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9852-02-70	MA-D 3599(28)	1

STATE PROJECT NUMBER
 9852-02-70



END PROJECT
 STA. 11+00



B-35-126

BEGIN PROJECT
 STA. 9+00
 X = 2,020,900 (± 100')
 Y = 500,300 (± 100')

LAYOUT
 SCALE 0 1 MI.

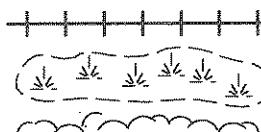
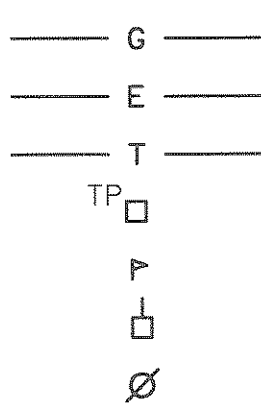
TOTAL NET LENGTH OF CENTERLINE = 0.038 MI.

DESIGN DESIGNATION

A.D.T. (1994)	=	50
A.D.T. (2014)	=	70
D.H.V.	=	5
D.	=	50/50
T.	=	10%
V.	=	65 M.P.H.
ESALS	=	N/A

CONVENTIONAL SIGNS

COUNTY LINE	---	COMBUSTIBLE FLUIDS (UNDER PRESSURE)	[Symbol]
CORPORATE LIMITS	////	UNDERGROUND UTILITIES	[Symbol]
PROPERTY LINE	---	GAS	[Symbol]
LOT LINE	---	ELECTRIC	[Symbol]
LIMITED HIGHWAY EASEMENT	---	TELEPHONE	[Symbol]
EXISTING RIGHT OF WAY	---	SERVICE PEDESTAL	[Symbol]
NEW RIGHT OF WAY	---	CABLE MARKER	[Symbol]
REFERENCE LINE	---	POWER POLE	[Symbol]
SLOPE INTERCEPT	---	TELEPHONE POLE	[Symbol]
ORIGINAL GROUND	---	RAILROADS	[Symbol]
MARSH OR ROCK PROFILE	---	MARSH	[Symbol]
CULVERT IN PLACE	---	WOODED AREA	[Symbol]
CULVERT REQUIRED	---	RIGHT-OF-WAY MARKERS	[Symbol]
CULVERT REQUIRED (Profile)	---		



ACCEPTED FOR
 TOWN OF CORNING

1/31/94
 DATE
 [Signature]
 TOWN CHAIRMAN

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES Engineers/Architects
 Planners/Surveyors
 Owen Ayres & Associates Inc.
 Eau Claire, Wisconsin

[Signature]
 DATE 1/24/94

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

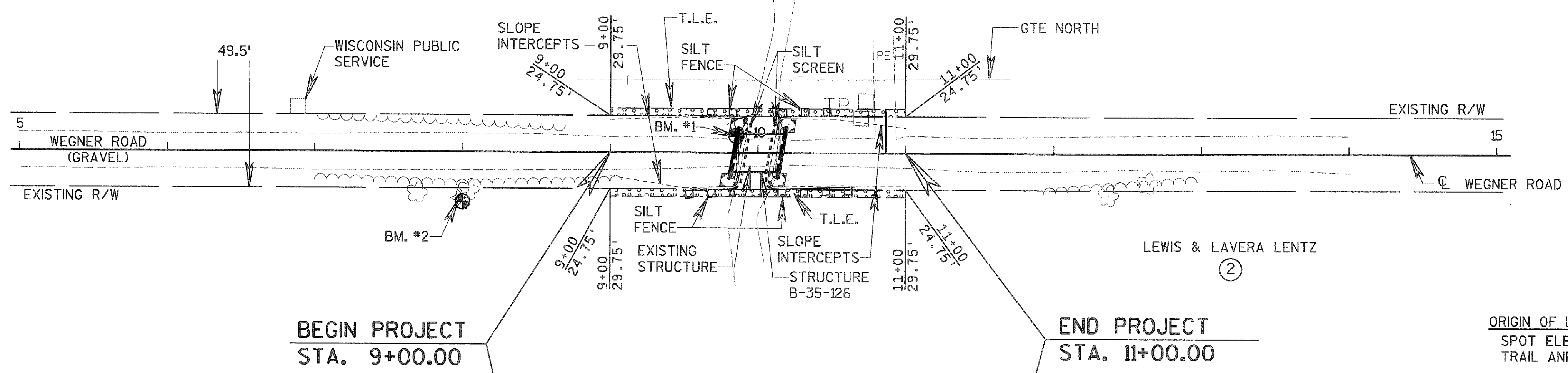
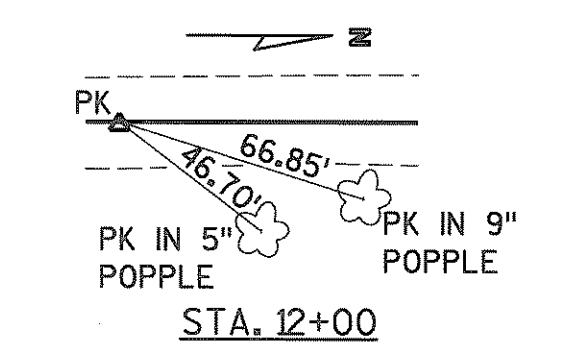
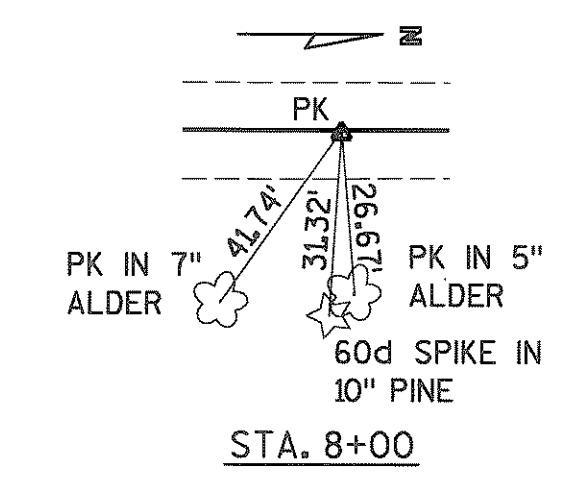
PREPARED BY
 Surveyor O. A. & A.
 Designer O. A. & A.
 District Examiner JAMES L. VOLKMANN
 District Supervisor ALLAN J. PETERSON
 Proj. Dev. Engineer
 C.O. Examiner E.N. BENISCH

APPROVED FOR DISTRICT OFFICE
 DATE 2/7/94 [Signature]
 (Signature)

THE COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM, CENTRAL ZONE. SCALED FROM U.S.G.S. TOPOGRAPHIC MAP LOOKOUT TOWER, WI QUAD. FOR IDENTIFICATION ONLY.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER	INTEREST REQUIRED	TOTAL	T.L.E. ACRES
1	KENNETH & CLARINE WILCOX	T.L.E.		0.02
2	LEWIS & LAVERA LENTZ	T.L.E.		0.02



ORIGIN OF LEVELS
 SPOT ELEVATION AT C OF CRANBERRY TRAIL AND WEGNER ROAD ELEV. 1358.0

BENCH MARKS			
NO.	STA.	DESCRIPTION	ELEV.
1	9+85	CHISELED "SQ" IN SW ABUT. 11' LT.	1356.01
2	8+00	60d SPIKE IN 10" PINE, 34' RT.	1356.74

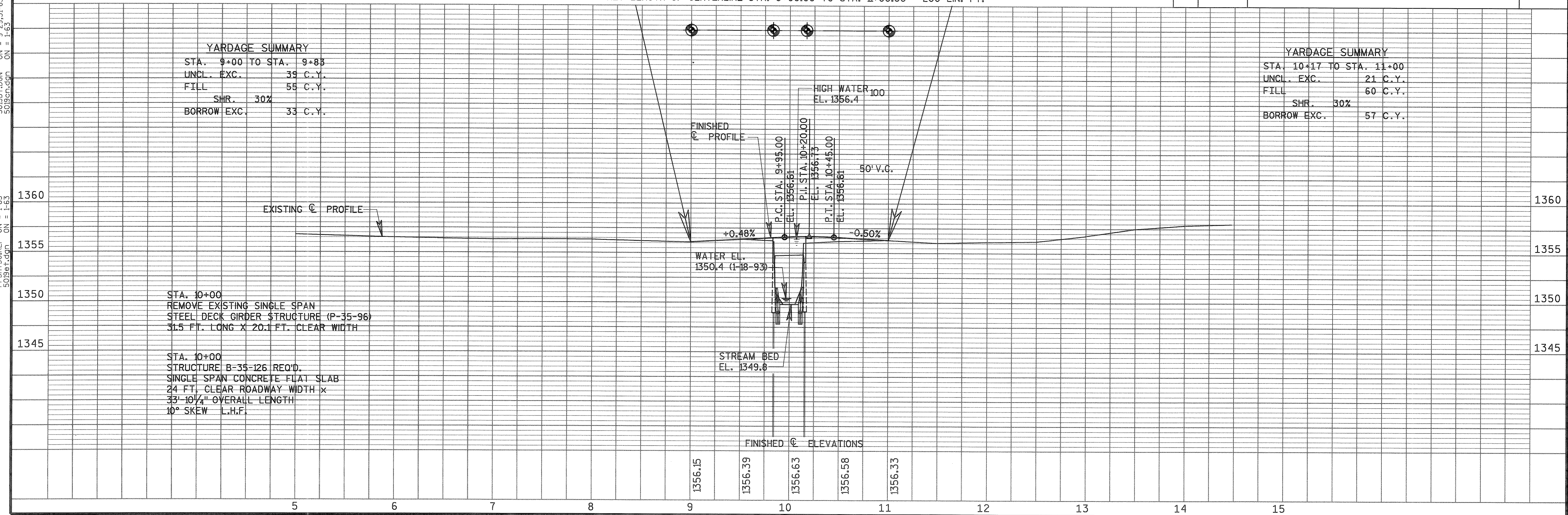
NET LENGTH OF CENTERLINE STA. 9+00.00 TO STA. 11+00.00 = 200 LIN. FT.

YARDAGE SUMMARY

STA. 9+00 TO STA. 9+85	
UNCL. EXC.	39 C.Y.
FILL	55 C.Y.
SHR. 30%	
BORROW EXC.	33 C.Y.

YARDAGE SUMMARY

STA. 10+17 TO STA. 11+00	
UNCL. EXC.	21 C.Y.
FILL	60 C.Y.
SHR. 30%	
BORROW EXC.	57 C.Y.



STA. 10+00
 REMOVE EXISTING SINGLE SPAN
 STEEL DECK GIRDER STRUCTURE (P-35-96)
 31.5 FT. LONG X 20.1 FT. CLEAR WIDTH

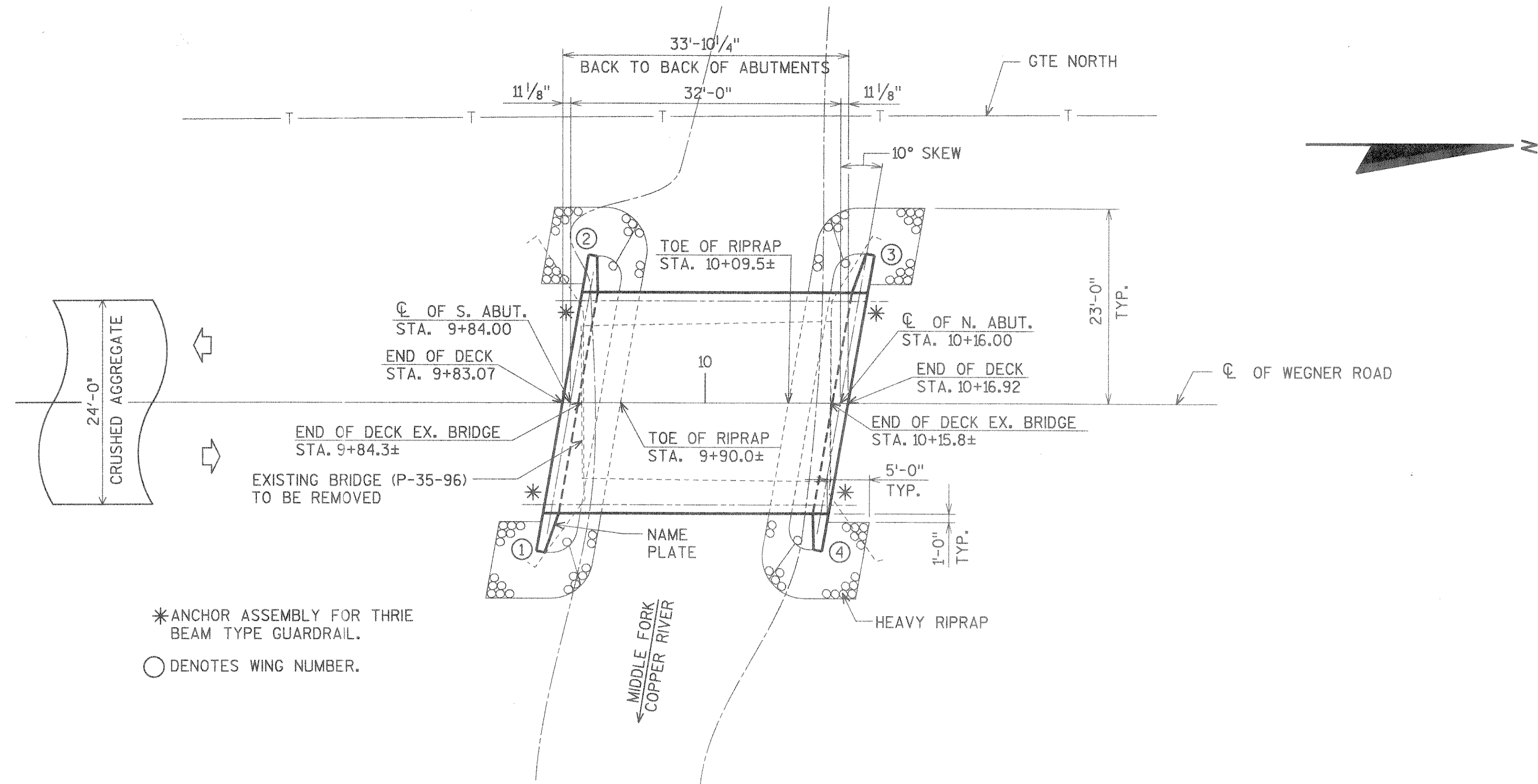
STA. 10+00
 STRUCTURE B-35-126 REQ'D.
 SINGLE SPAN CONCRETE FLAT SLAB
 24 FT. CLEAR ROADWAY WIDTH X
 33'-10 1/4" OVERALL LENGTH
 10° SKEW L.H.F.

FINISHED C ELEVATIONS

1356.15	1356.39	1356.63	1356.58	1356.33
---------	---------	---------	---------	---------

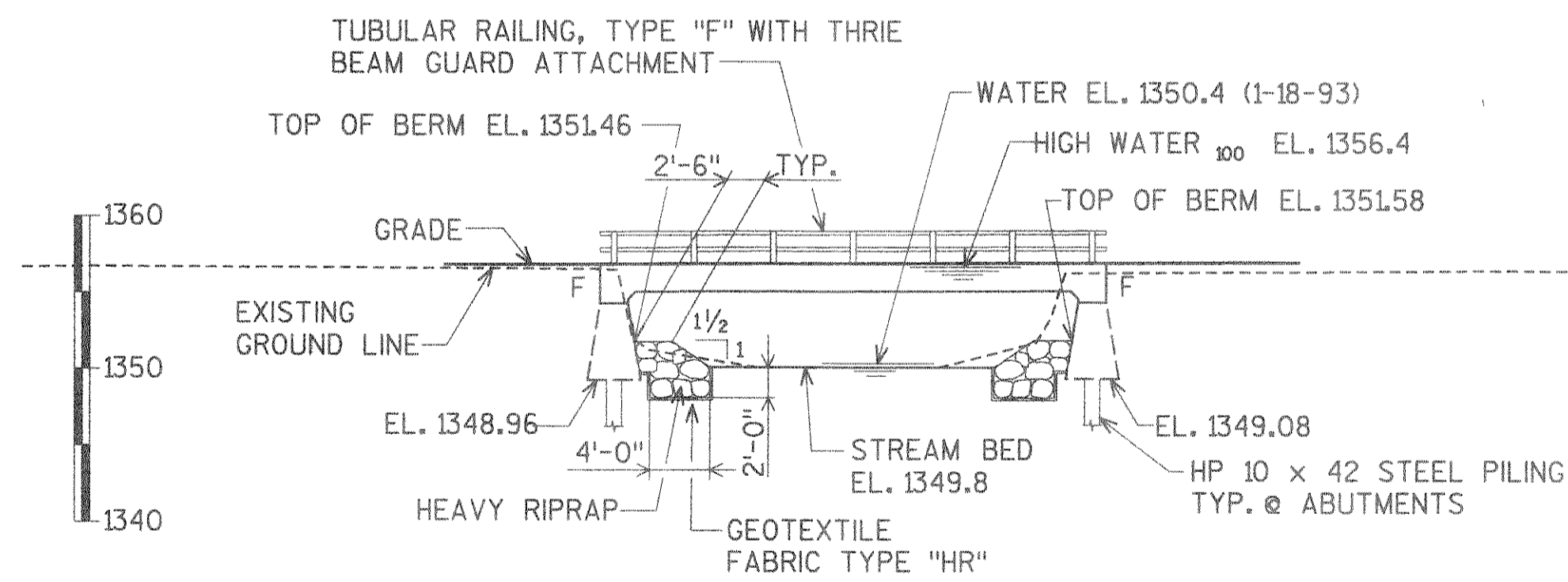
PROJ. NO. DATE: DATE: DATE: DATE:
 OFFICE: EAU SURVEY PLOT: PREL: FINAL:
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 501901.dgn ON = 9-29,31-63 5019c.dgn ON = 1-63
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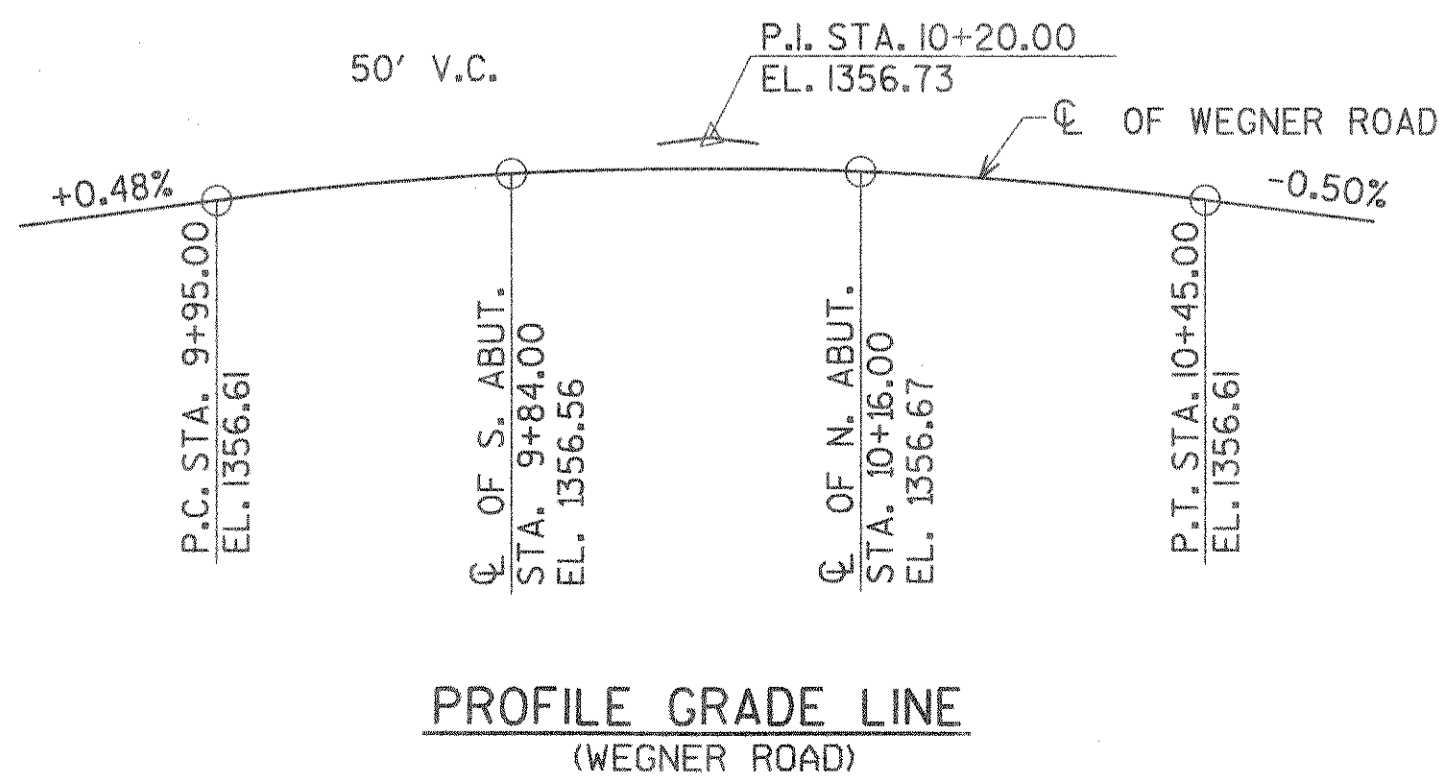


*ANCHOR ASSEMBLY FOR THRIE BEAM TYPE GUARDRAIL.
 O DENOTES WING NUMBER.

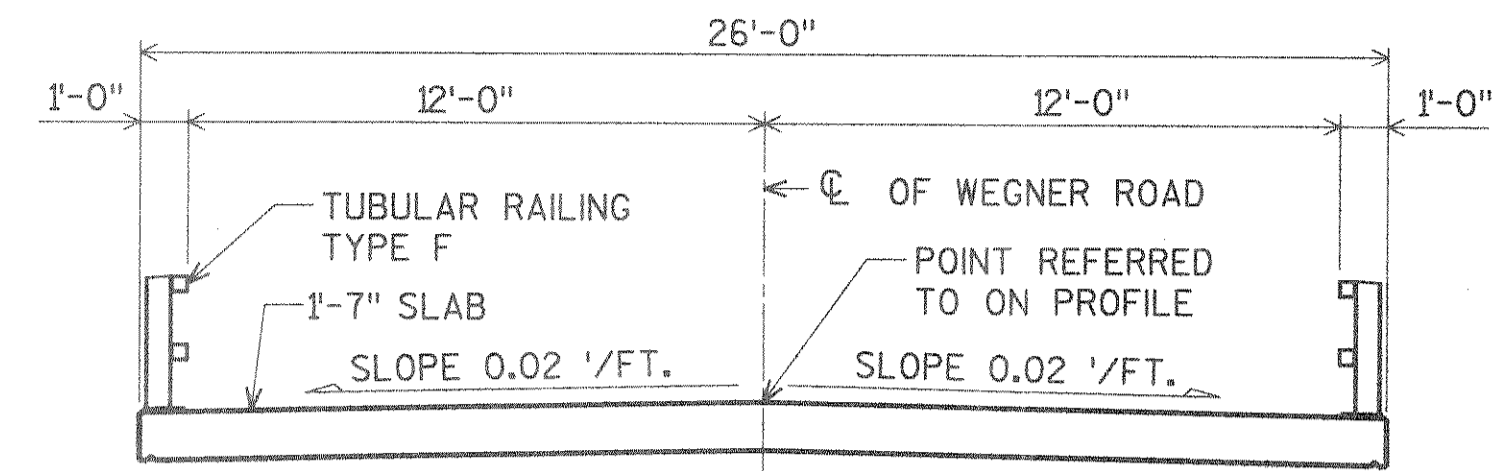
PLAN
 SINGLE SPAN CONCRETE FLAT SLAB



ELEVATION
 (NORMAL TO CL OF RIVER)



BENCH MARK:
 CHIS. SQ. IN SW ABUT.
 STA. 9+85.00, 11' LT.
 EL. 1356.01



CROSS SECTION THRU ROADWAY

DESIGN DATA

LIVE LOAD: HS-20 (STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20*/S.F.)

RATINGS: INVENTORY = HS-26 OPERATING = HS-43

MAXIMUM STANDARD PERMIT VEHICLE LOAD = 230 KIPS

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY { SLAB $f'_c = 4,000$ p.s.i.
 ALL OTHER $f'_c = 3,500$ p.s.i.
 HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) $f_y = 60,000$ p.s.i.

HYDRAULIC DATA:

100 YEAR FLOOD
 DRAINAGE AREA = 16.4 sq. mi.
 WATERWAY AREA = 128 sq. ft.
 V = 4.8 f.p.s.
 $Q_{100} = 650$ c.f.s. { BRIDGE = 615 c.f.s.
 OVERFLOW = 35 c.f.s.
 HIGH WATER₁₀₀ EL. 1356.4
 SCOUR CRITICAL CODE = 8

FREQUENCY OF OVERTOPPING
 $O_{50} = 600$ c.f.s.
 WATER SURFACE EL. 1356.1

FOUNDATION DATA:

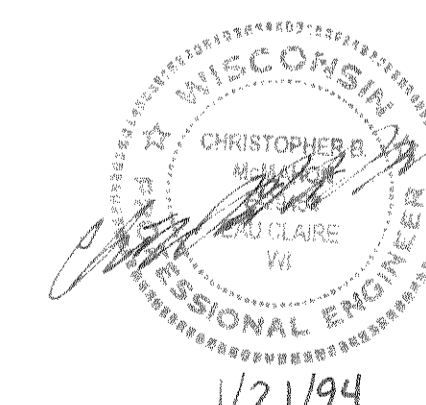
PLACE ABUTMENTS ON HP 10 x 42 STEEL PILING DRIVEN TO 40 TONS/PILE MINIMUM BEARING VALUE. ESTIMATED LENGTH 50'-0".

TRAFFIC DATA:

A.D.T. = 50 (1994)
 A.D.T. = 70 (2014)
 R.D.S. = 65 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES & NOTES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. NORTH ABUTMENT
6. SUPERSTRUCTURE
7. TUBULAR RAILING TYPE "F"



BRIDGE OFFICE CONTACT:
 C. RAY
 (608) 266-8486

No.	Date	Revision	By
PLANS PREPARED BY			
AYRES ASSOCIATES Engineers/Architects Planners/Surveyors Owen Ayres & Associates Inc. Eau Claire, Wisconsin			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-126			
WEGNER ROAD OVER MIDDLE FORK COPPER RIVER			
County	LINCOLN	Town/Village	CORNING
Design Spec.	A.A.S.H.T.O. '92	Load	HS-20
Designed By	BAO	Design Checked	MJT
Drawn By	CLS	Plans Checked	C.B.M.
Approved	State Bridge Engineer		Date
GENERAL PLAN			SHEET 1 OF 7

REFERENCE FILES

ON = 1-63
 ON = 1-60, 61-63
 ON = 1-58, 59-63

ppaht50.rtf
 5019gp.dgn
 SHIP.PREF

CHECKED BY: _____
 BACK CHECKED BY: _____
 CORRECTED BY: _____

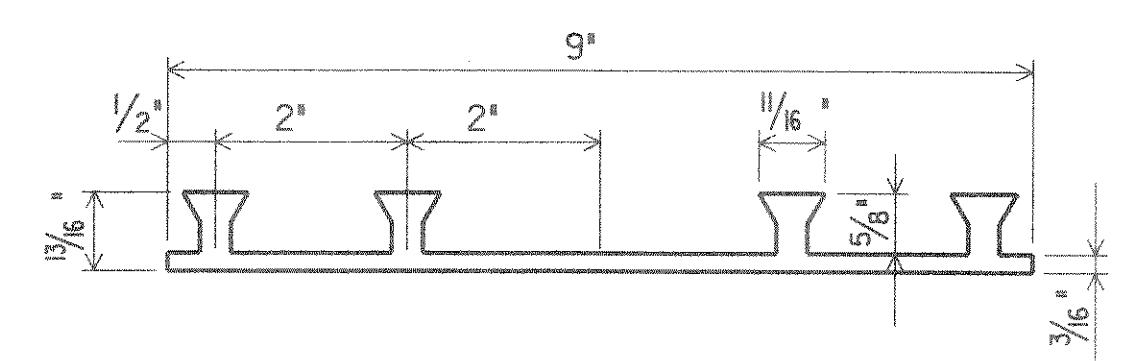
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DGN LEVELS ON = 1-63

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
REMOVING OLD BRIDGE, STA. 10+00	L.S.	-----	-----	-----	1
EXCAVATION FOR STRUCTURES, BRIDGES B-35-126	L.S.	-----	-----	-----	1
CONCRETE MASONRY, BRIDGES	C.Y.	16.7	16.7	54.6	88
PROTECTIVE SURFACE TREATMENT	GAL.	-----	-----	6	6
HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	1,480	1,480	6,570	9,530
COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	-----	-----	1,460	1,460
STEEL PILING, DELIVERED AND DRIVEN, HP 10-INCH 42 POUND	L.F.	200	200	-----	400
TUBULAR RAILING, TYPE F, STRUCTURE B-35-126	L.S.	-----	-----	-----	1
HEAVY RIPRAP	C.Y.	30	30	-----	60
GEOTEXTILE FABRIC, TYPE HR	S.Y.	60	60	-----	120
NON-BID ITEMS					
FILLER	SIZE	-----	-----	-----	1/2" & 3/4"
POLYVINYL CHLORIDE WATERSTOP	L.F.	32	32	-----	64

GENERAL NOTES

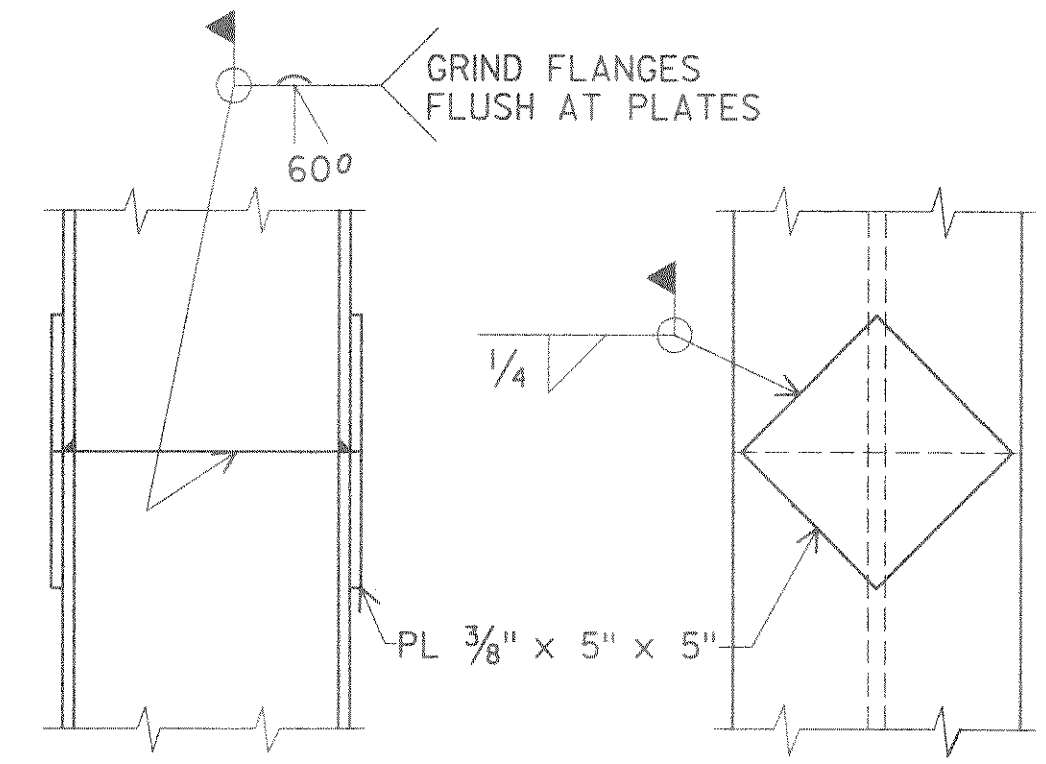
DRAWINGS SHALL NOT BE SCALED.
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.
JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE TOP OF DECK.
THE EXISTING BRIDGE, P-35-96, IS A SINGLE SPAN STEEL DECK GIRDER STRUCTURE 31.5 FT. LONG WITH A 20.1 FT. CLEAR WIDTH.



POLYVINYL CHLORIDE WATERSTOP DETAIL

(P.C.W.)

NOTE: WATERSTOP SHALL BE FASTENED TO FORMS BY NAILING OUTSIDE OF OUTSIDE TABS.



HP 10 x 42 SPLICE DETAIL

REFERENCE FILES
ON = 1-63
ON = 1-50, 63-65
pprht50r.dgn
5019gp.dgn

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

No.	Date	Revision	By
PLANS PREPARED BY AYRES ASSOCIATES Engineers/Architects Planners/Surveyors Owen Ayres & Associates Inc. Eau Claire, Wisconsin			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-35-126	
Const. Spec.	1989	Drawn By	CLS
		Plans Checked	C.B.M.
QUANTITIES & NOTES			SHEET 2 OF 7

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OK = 1-63
 ON = 1-63

REFERENCE FILES
 subpp.dgn
 STOMPARE

OK = 1-63
 ON = 1-63
 ON = 1-63

ppah10.ref
 subpp.dgn
 STOMPARE

CHECKED BY:
 DATE:

BACK CHECKED BY:
 DATE:
 CORRECTED BY:
 DATE:

STATE PROJECT NUMBER
9852-02-70
 SHEET NO.

ABBREVIATIONS
 F ---- Fine M ---- Medium C ---- Coarse
 Ws ---- Weathered So ---- Sound

MATERIAL SYMBOLS

LEGEND OF PROBING

95/6 = 95 Blows for 6' Penetration
 Probing taken with a 350# wt. Falling 18" on a 2" O.D. Point.

Probing No. Station Elevation
 7 Average Blows Per Foot
 Refusal 95/6

LEGEND OF BORING

Boring No., Elev. Sta. & Offset

Unconfined Strength → [7.7] 7 *
 Blows Per Foot Using 140# Wt. Falling 30".
 Wash Sample
 Shelby Tube — S.T.
 Ground Water Elevation
 No Ground Water Observed Above This Elevation

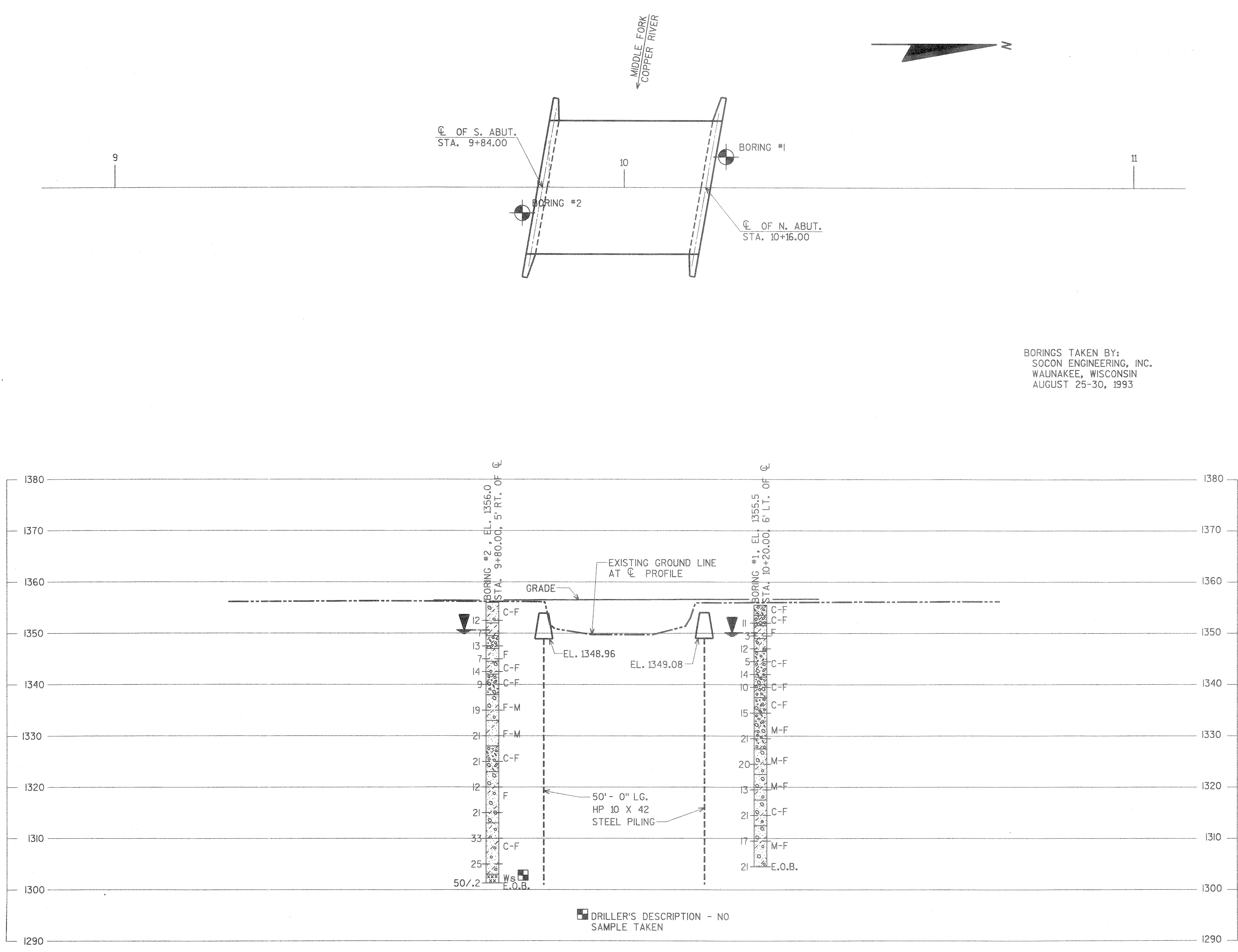
Sandy Gravel
 F Boulders or Cobbles
 Sand
 Silty Clay
 So Limestone

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O.D. x 1.4" I.D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

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. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the DEPT. OF TRANSPORTATION does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

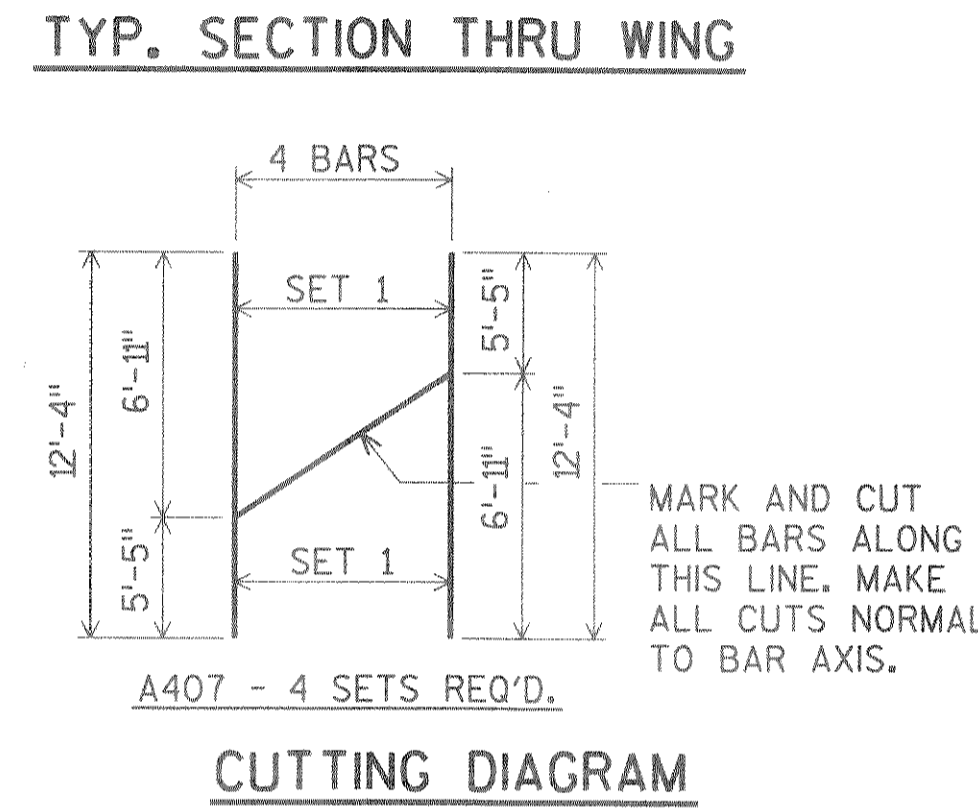
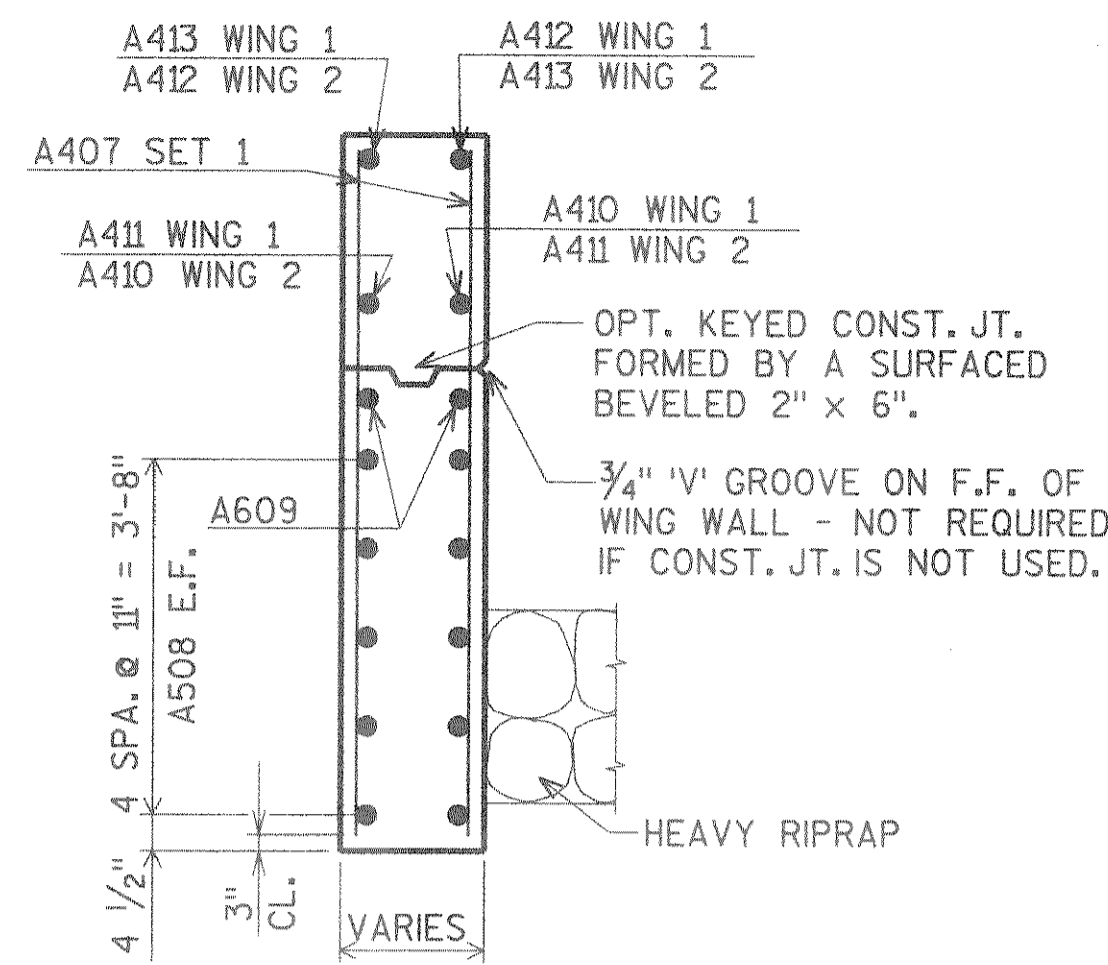
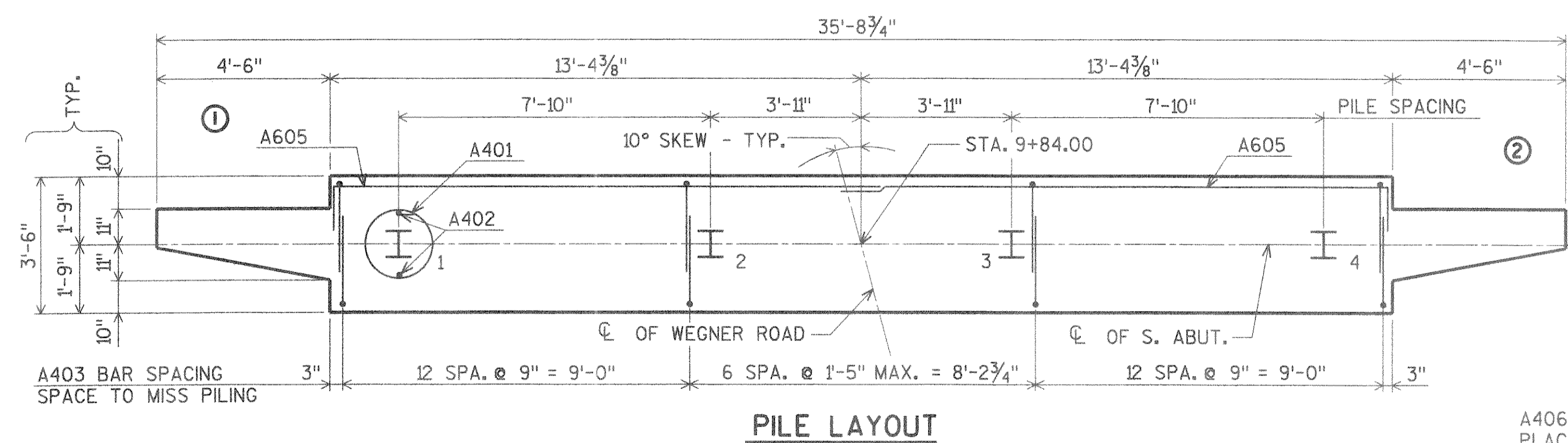
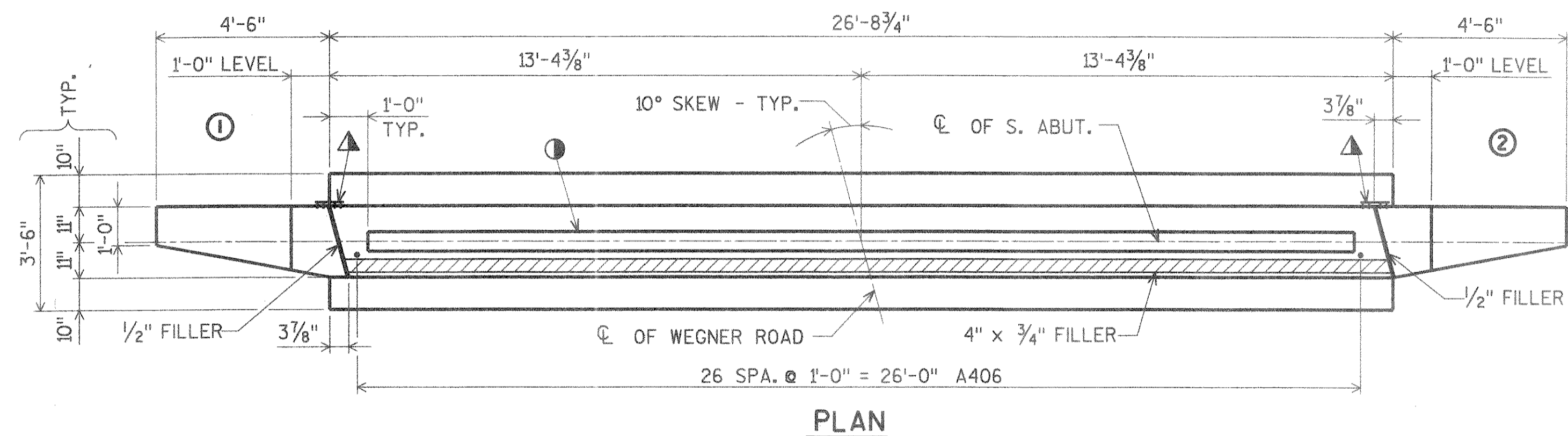
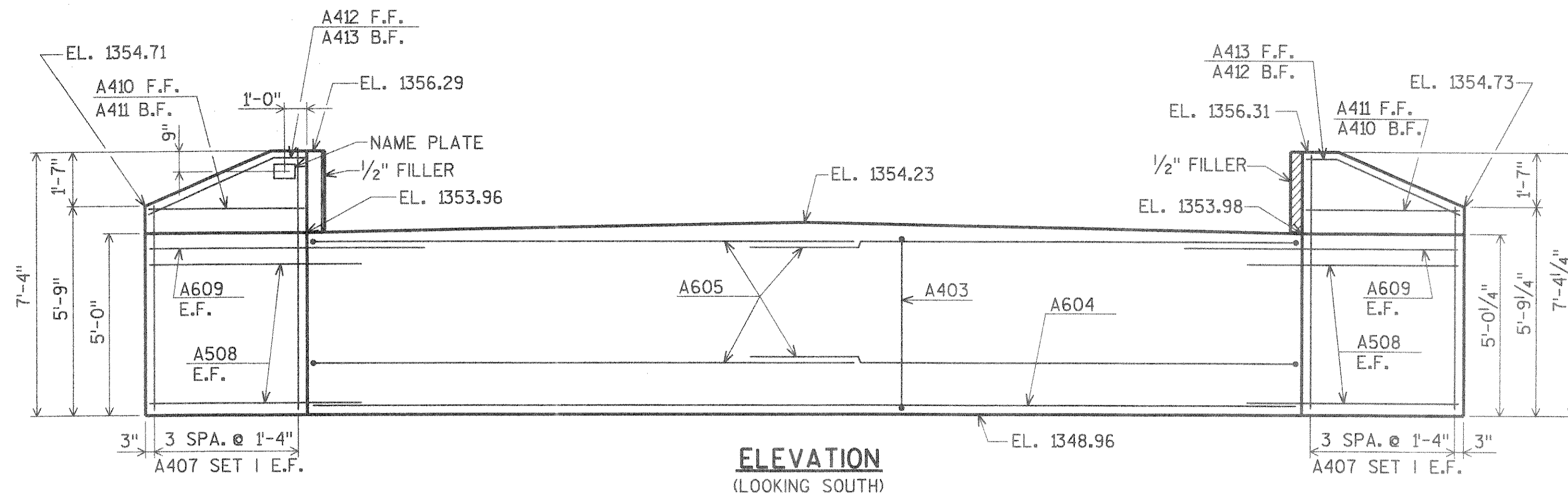
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PLANS PREPARED BY			
AYRES ASSOCIATES Engineers/Architects Planners/Surveyors Owen Ayres & Associates Inc. Eau Claire, Wisconsin			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-126			
Const. Spec.	1989	Drawn By	CLM
		Plans Checked	C.B.M.
SUBSURFACE EXPLORATION			SHEET 3 OF 7



BORINGS TAKEN BY:
 SOCON ENGINEERING, INC.
 WAUNAKEE, WISCONSIN
 AUGUST 25-30, 1993

NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

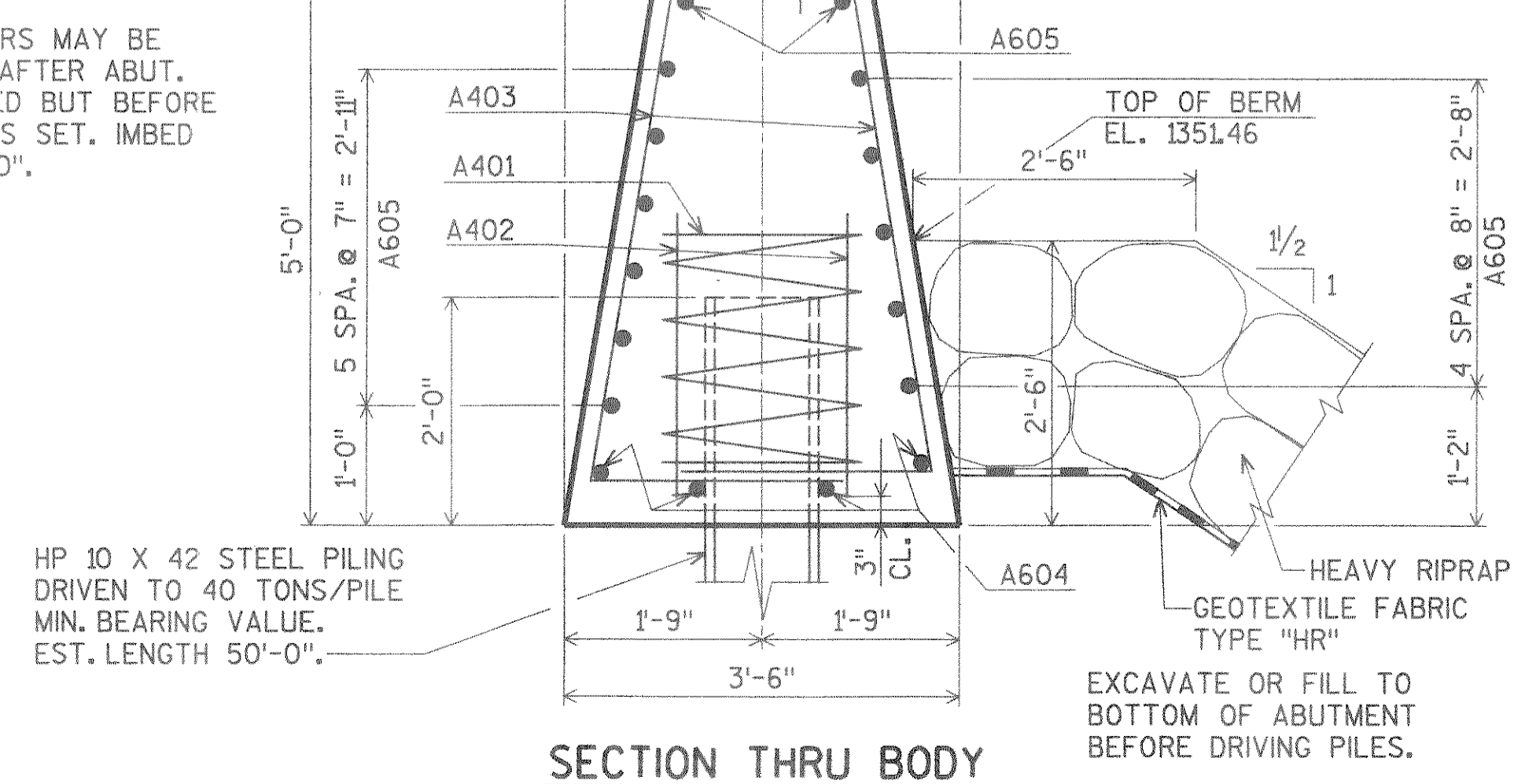
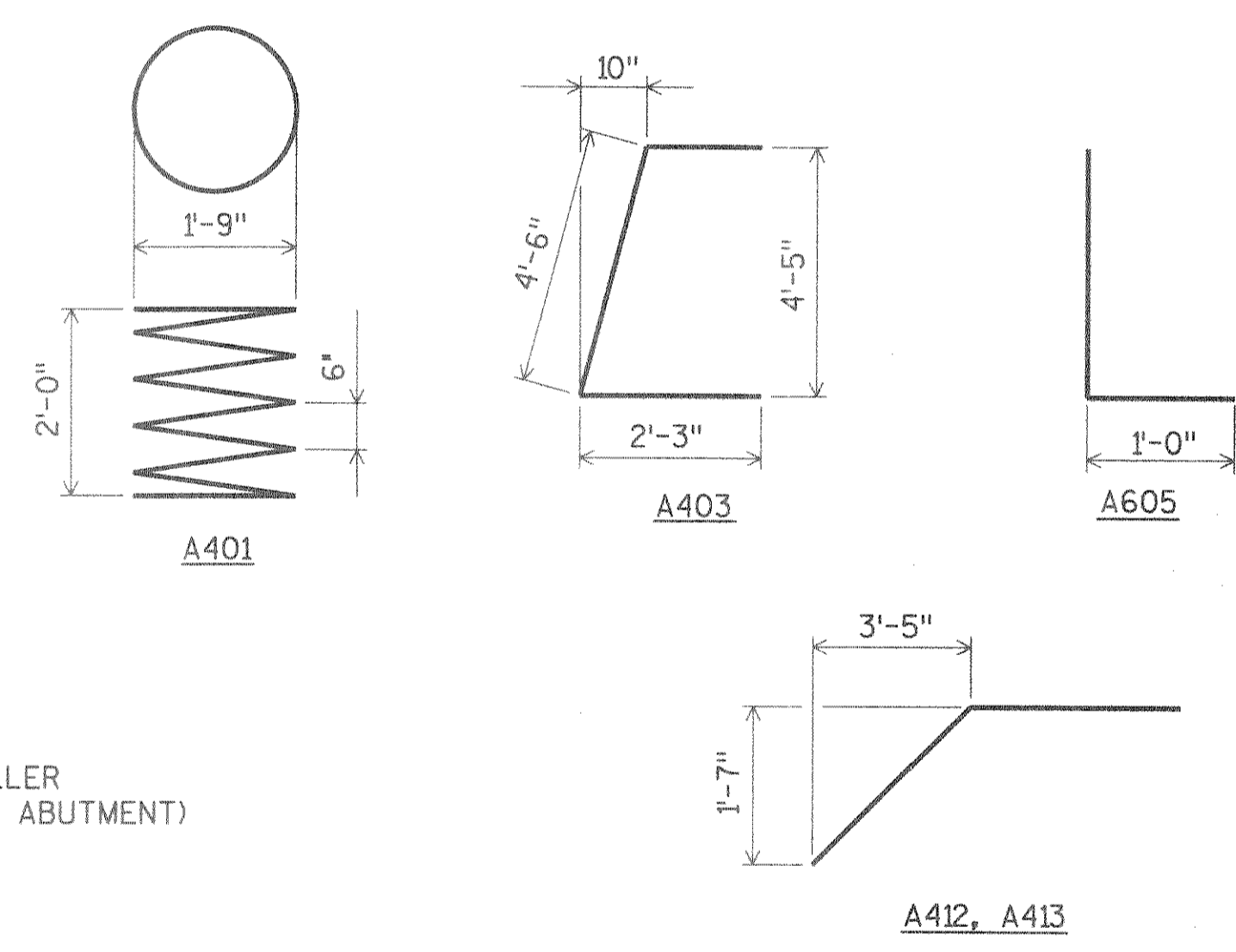
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DGN LEVELS ON = 1-63



BILL OF BARS

BAR NO.	NO. REQ'D.	LENGTH	BENT BAR	COATED BAR	CUT. DIAG.	LOCATION
1,480* UNCOATED						
LOCATION						
A401	4	28-0	X			BODY @ PILES
A402	8	2-3				BODY @ PILES
A403	62	8-1	X			BODY VERT.
A604	4	26-4				BODY HORIZ.
A605	26	15-6	X			BODY HORIZ.
A406	27	2-0				BODY DOWELS
A407	8	12-4	X			WING 1 & 2 VERT. E.F. SET 1
A508	20	5-10				WING 1 & 2 HORIZ. E.F.
A609	4	7-7				WING 1 & 2 HORIZ. E.F.
A410	2	4-4				WING 1 F.F., WING 2 B.F. HORIZ.
A411	2	4-1				WING 1 B.F., WING 2 F.F. HORIZ.
A412	2	4-8	X			WING 1 F.F., WING 2 B.F. DIAG.
A413	2	4-5	X			WING 1 B.F., WING 2 F.F. DIAG.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.
B.F. DENOTES BACK FACE.
F.F. DENOTES FRONT FACE.
E.F. DENOTES EACH FACE.



- KEYED CONST. JOINT - FORMED BY A SURFACED BEVELED 2" x 6".
- VERT. P.C.W. TO EXTEND FROM BRIDGE SEAT TO TOP OF WING. SPLICE AT JUNCTION WITH HORIZ. WATERSTOP BY USING A HEATED SPLICING IRON. HOLD P.C.W. FLUSH WITH CONCRETE.
- P.C.W. DENOTES POLYVINYL CHLORIDE WATERSTOP. SEE SHEET 2 FOR DETAILS.
- FOR PILE SPLICE DETAIL SEE SHEET 2.
- SEAL ALL VERTICAL ENDS OF P.C.W. WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

PLANS PREPARED BY
AYRES ASSOCIATES Engineers/Architects
Planners/Surveyors
Owen Ayres & Associates Inc.
Eau Claire, Wisconsin

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-126

Const. Spec. 1989 Drawn By CLS Plans Checked C.B.M.

SOUTH ABUTMENT

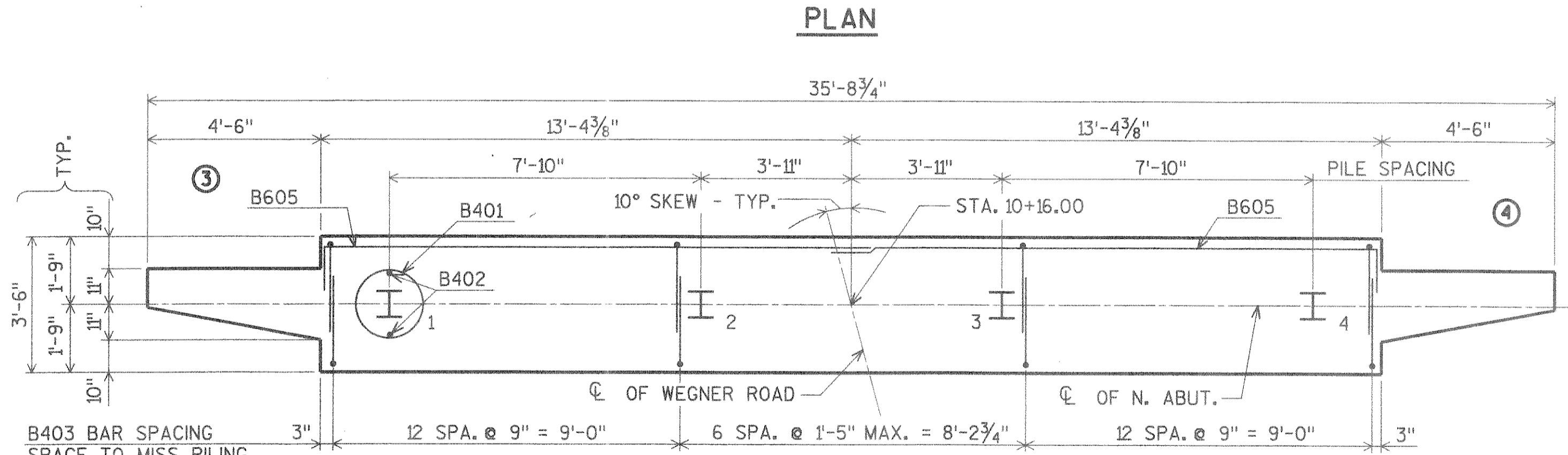
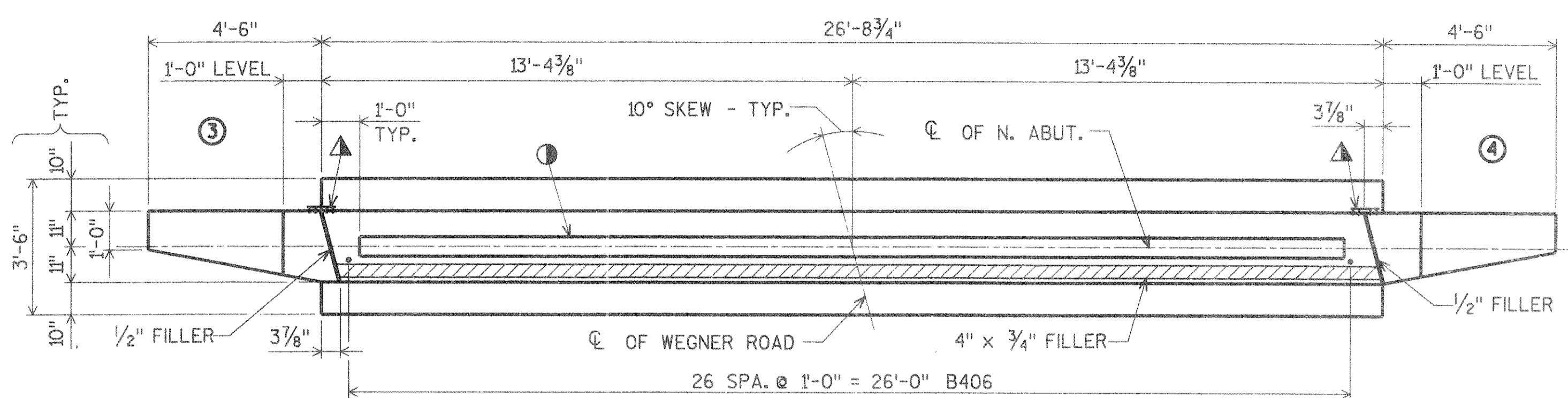
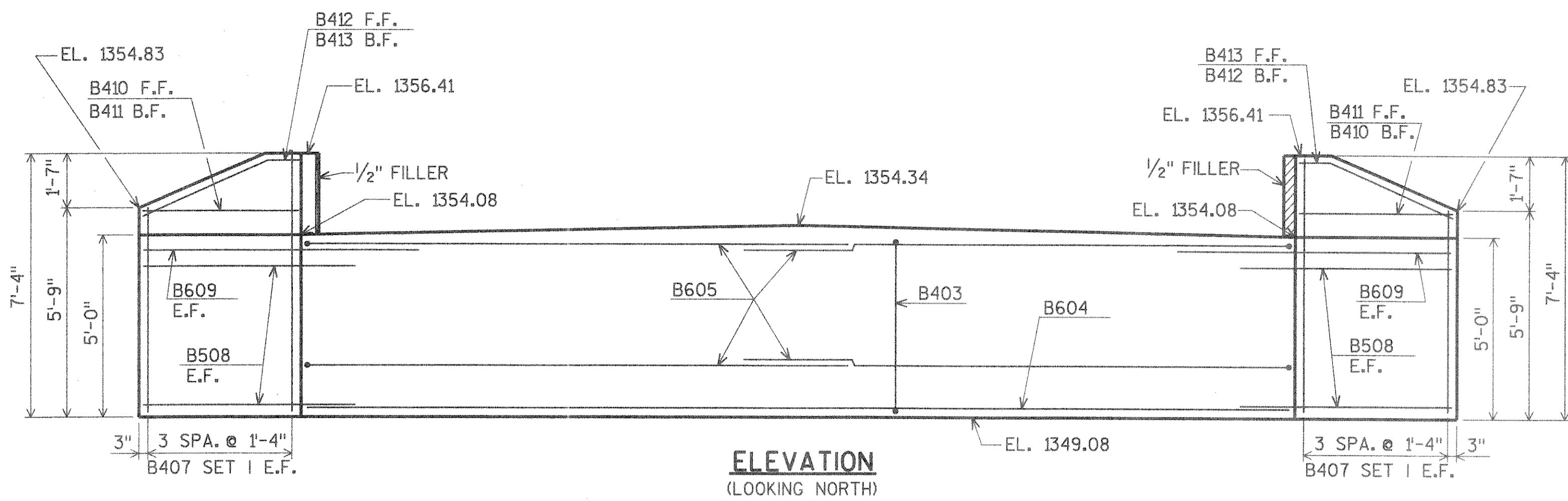
SHEET 4 OF 7

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BACK CHECKED BY:
CORRECTED BY:

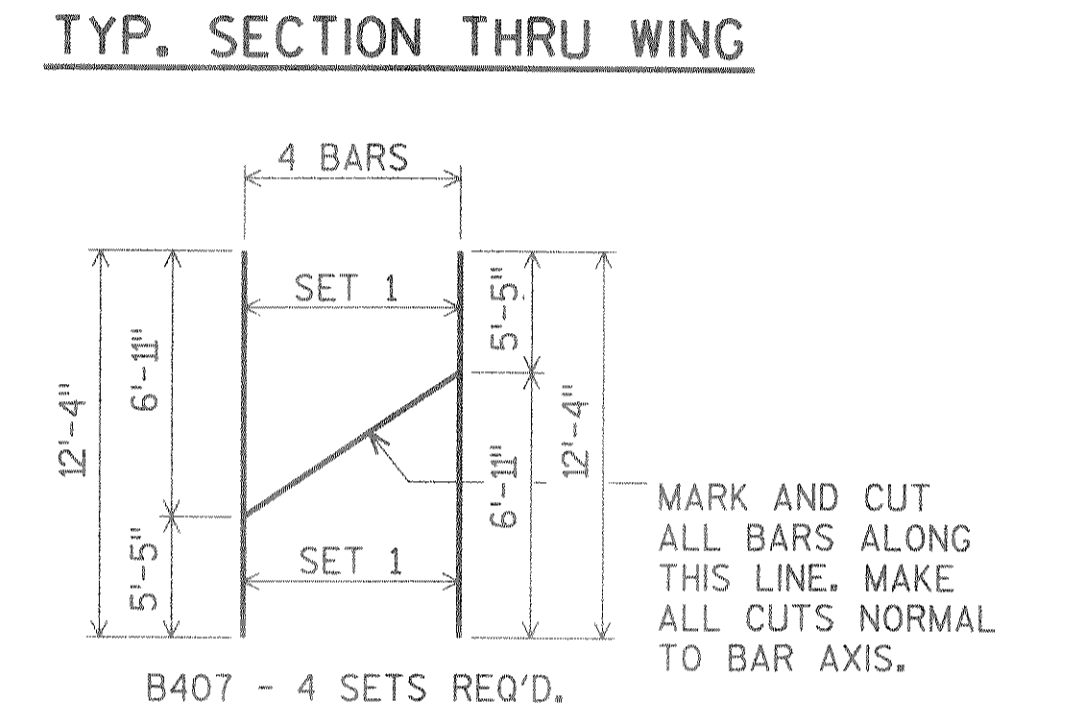
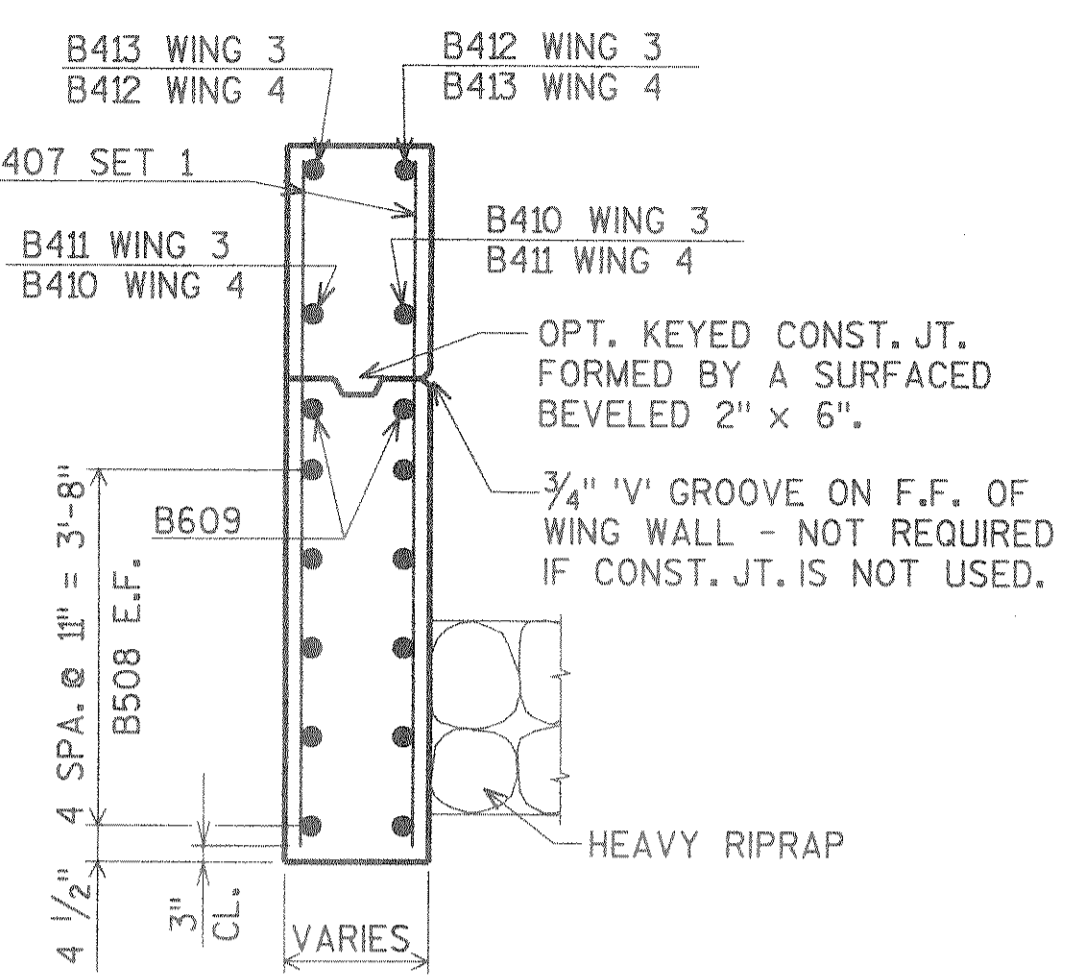
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REF LN
REF NB
REF LB
REF NA
REF LA

NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

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DATE OF PLOT = 01/21/94
DESIGN FILE IS /usr/work/rtrbridge/5019na.dgn
CON LEVELS ON = 1-63



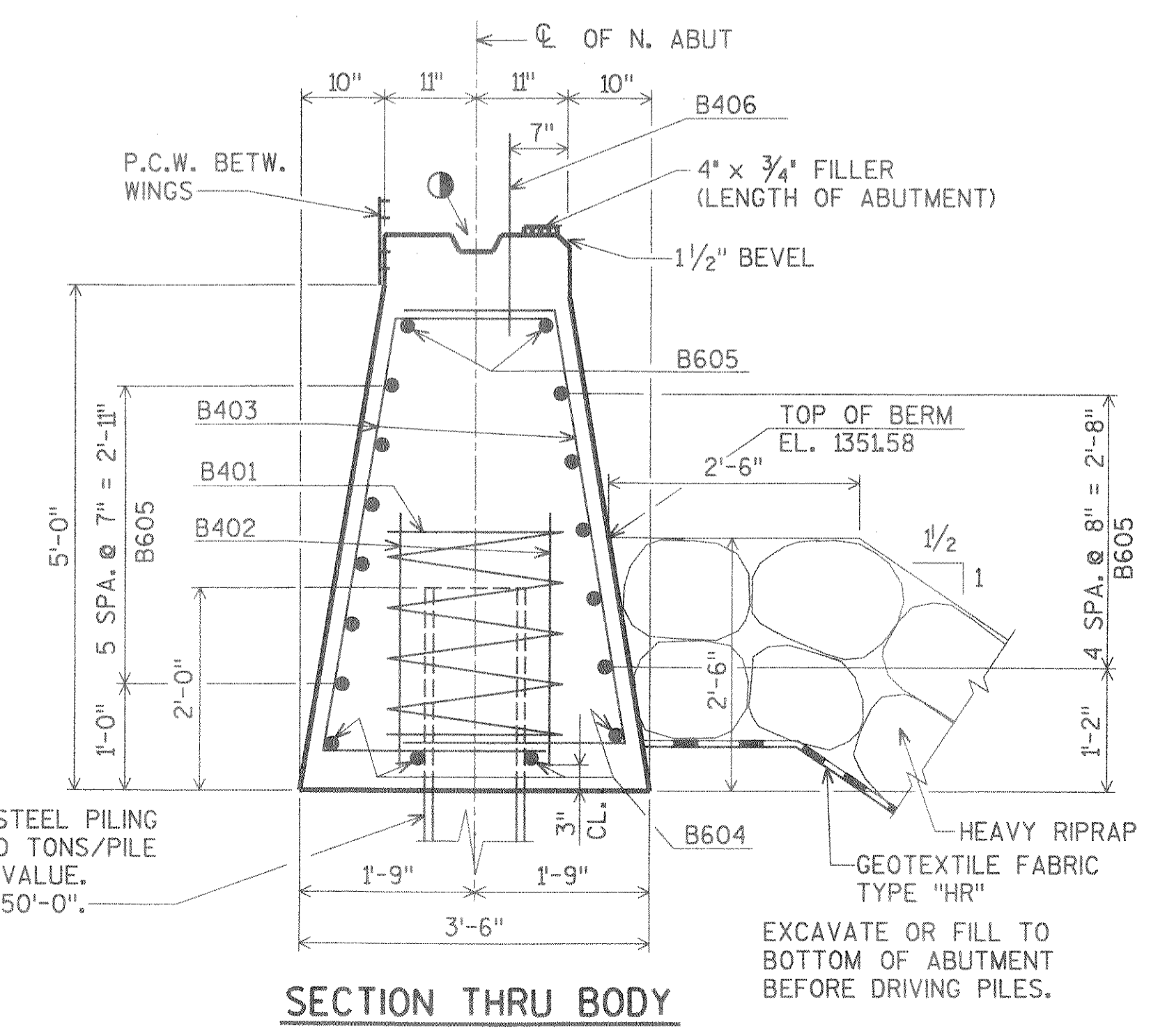
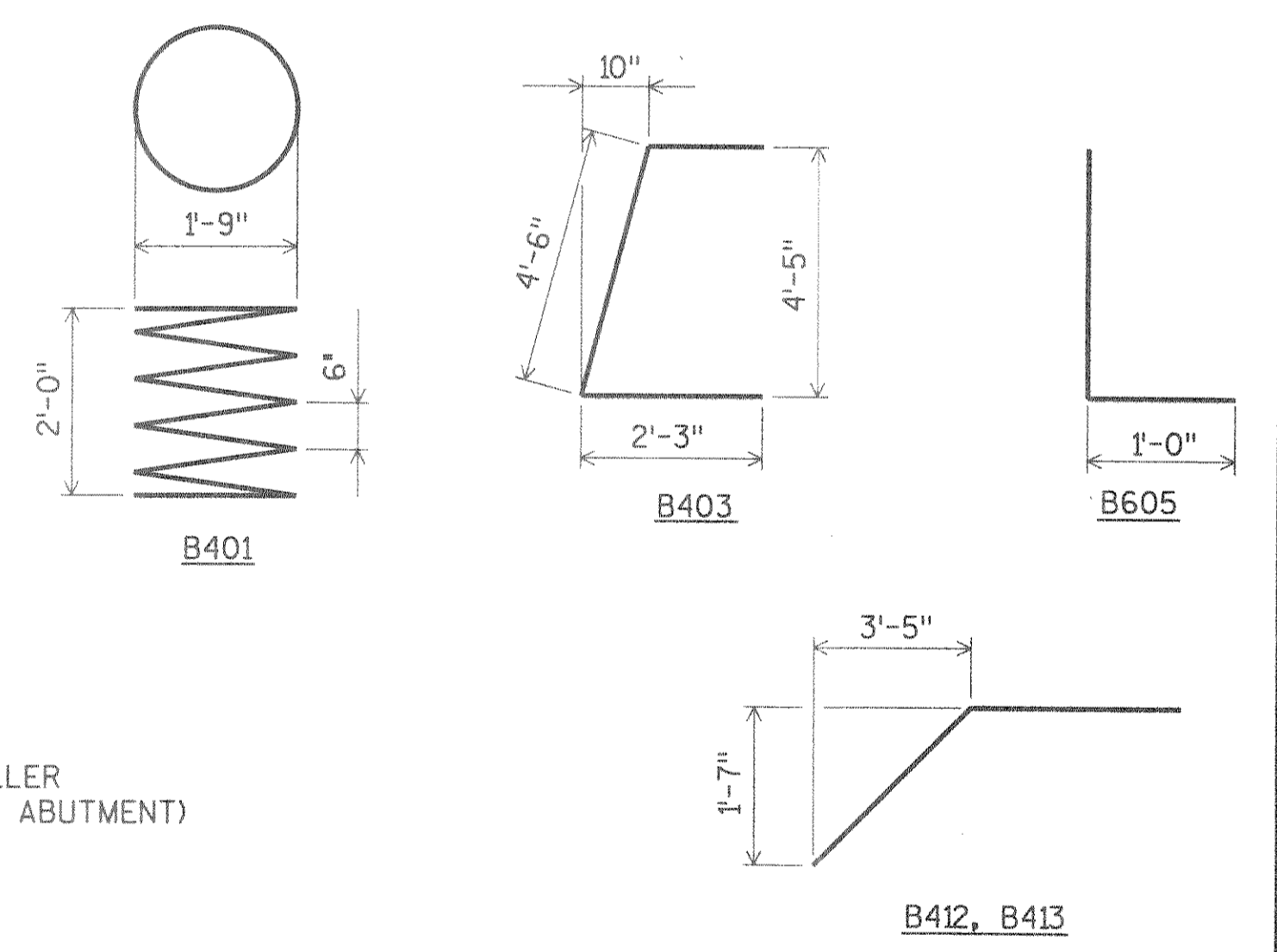
- ⊙ KEYED CONST. JOINT - FORMED BY A SURFACED BEVELED 2" x 6".
 - ▲ VERT. P.C.W. TO EXTEND FROM BRIDGE SEAT TO TOP OF WING. SPLICE AT JUNCTION WITH HORIZ. WATERSTOP BY USING A HEATED SPLICING IRON. HOLD P.C.W. FLUSH WITH CONCRETE.
- P.C.W. DENOTES POLYVINYL CHLORIDE WATERSTOP. SEE SHEET 2 FOR DETAILS.
FOR PILE SPLICE DETAIL SEE SHEET 2.
- SEAL ALL VERTICAL ENDS OF P.C.W. WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.



BILL OF BARS

BAR NO.	NO. REQ'D.	LENGTH	BENT BAR	COATED BAR	CUT-DIAGR.	LOCATION
1480# UNCOATED						
B401	4	28-0	X			BODY @ PILES
B402	8	2-3				BODY @ PILES
B403	62	8-1	X			BODY VERT.
B404	4	26-4				BODY HORIZ.
B605	26	15-6	X			BODY HORIZ.
B406	27	2-0				BODY DOWELS
B407	8	12-4	X			WING 3 & 4 VERT. E.F. SET 1
B508	20	5-10				WING 3 & 4 HORIZ. E.F.
B609	4	7-7				WING 3 & 4 HORIZ. E.F.
B410	2	4-4				WING 3 F.F., WING 4 B.F. HORIZ.
B411	2	4-1				WING 3 B.F., WING 4 F.F. HORIZ.
B412	2	4-8	X			WING 3 F.F., WING 4 B.F. DIAG.
B413	2	4-5	X			WING 3 B.F., WING 4 F.F. DIAG.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.
B.F. DENOTES BACK FACE.
F.F. DENOTES FRONT FACE.
E.F. DENOTES EACH FACE.

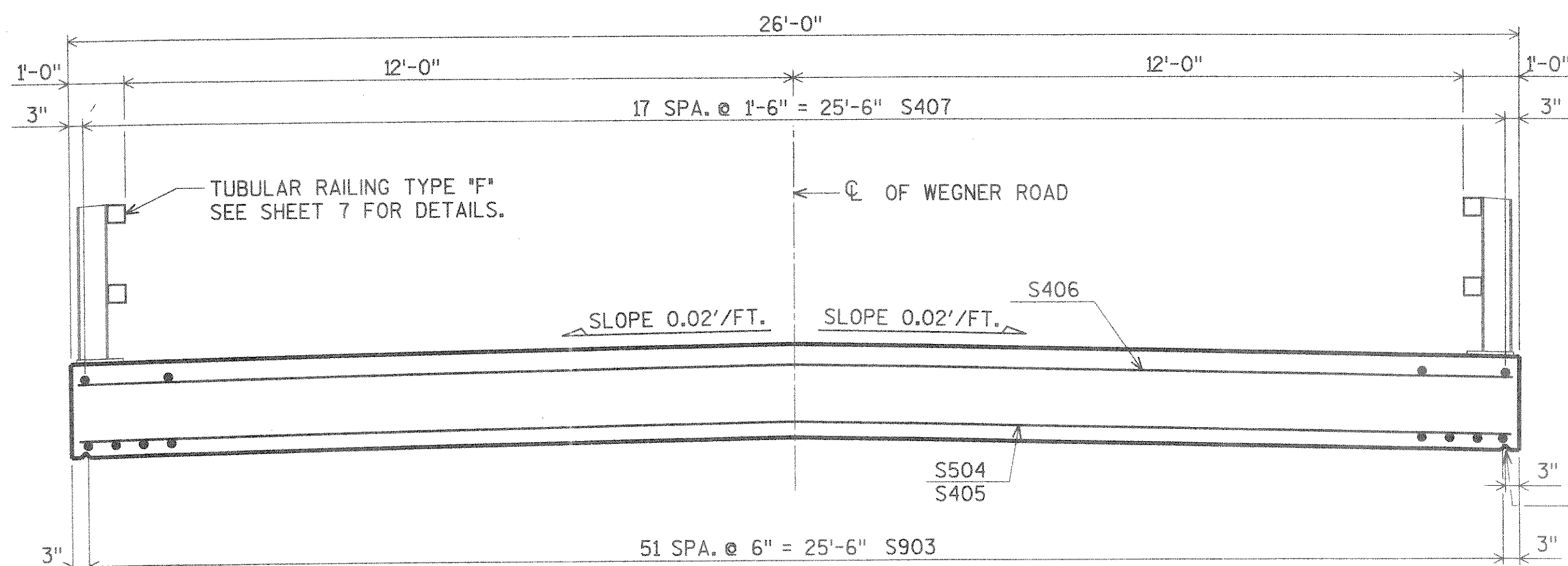


B406 BARS MAY BE PLACED AFTER ABUT. IS POURED BUT BEFORE CONC. HAS SET. IMBED BARS 1'-0".

EXCAVATE OR FILL TO BOTTOM OF ABUTMENT BEFORE DRIVING PILES.

No.	Date	Revision	By
PLANS PREPARED BY			
AYRES ASSOCIATES Engineers/Architects Planners/Surveyors Owen Ayres & Associates Inc. Eau Claire, Wisconsin			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-126			
Const. Spec.	1989	Drawn By	CLS
		Plans Checked	C.B.M.
NORTH ABUTMENT			SHEET 5 OF 7

PEN TABLE = collgbr.tbl
 DATE OF PLOT = 01/21/94
 DESIGN FILE IS /usr/work/trbridge/5018sup.dgn
 DGN LEVELS ON = 1-63

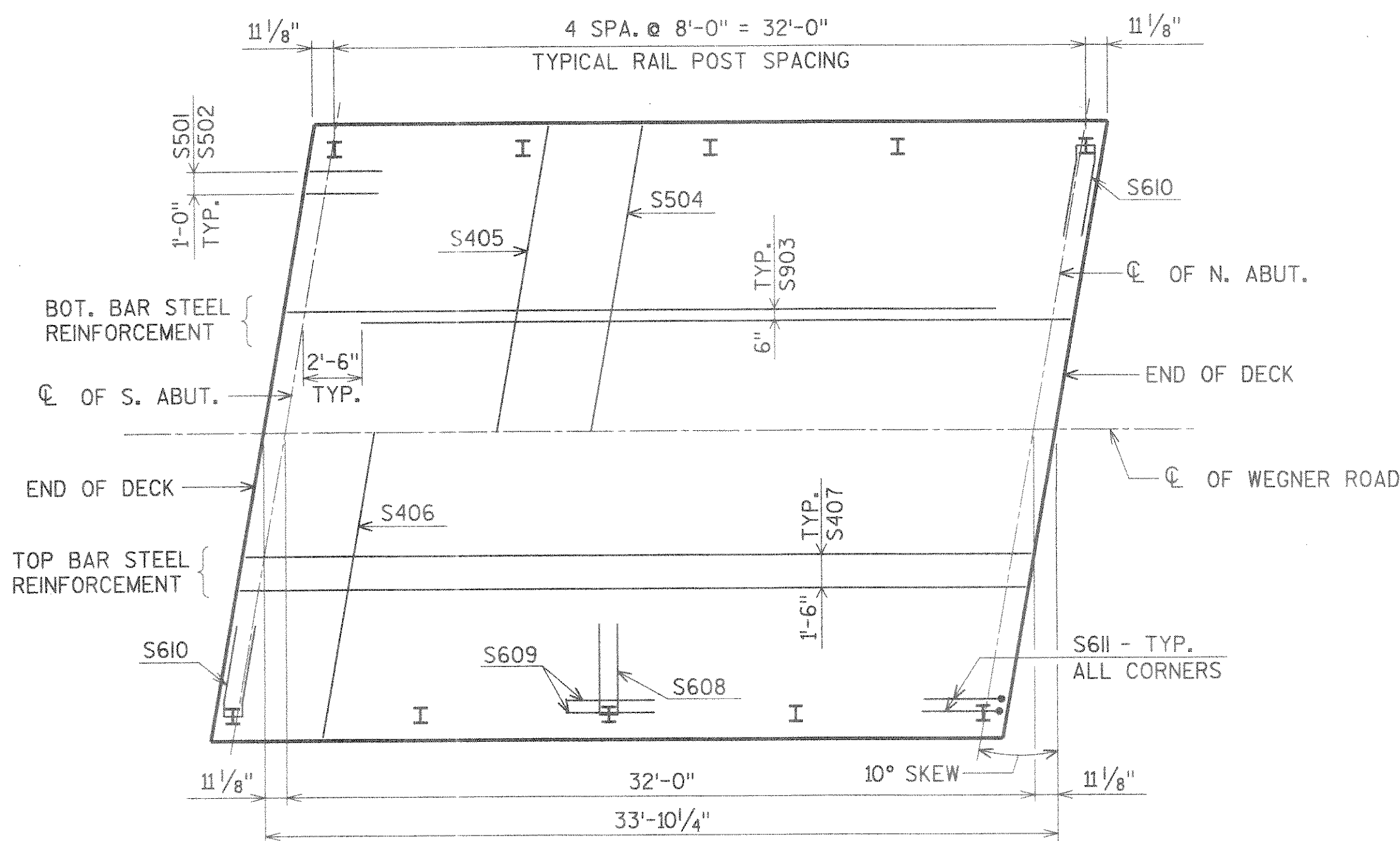


CROSS SECTION THRU ROADWAY

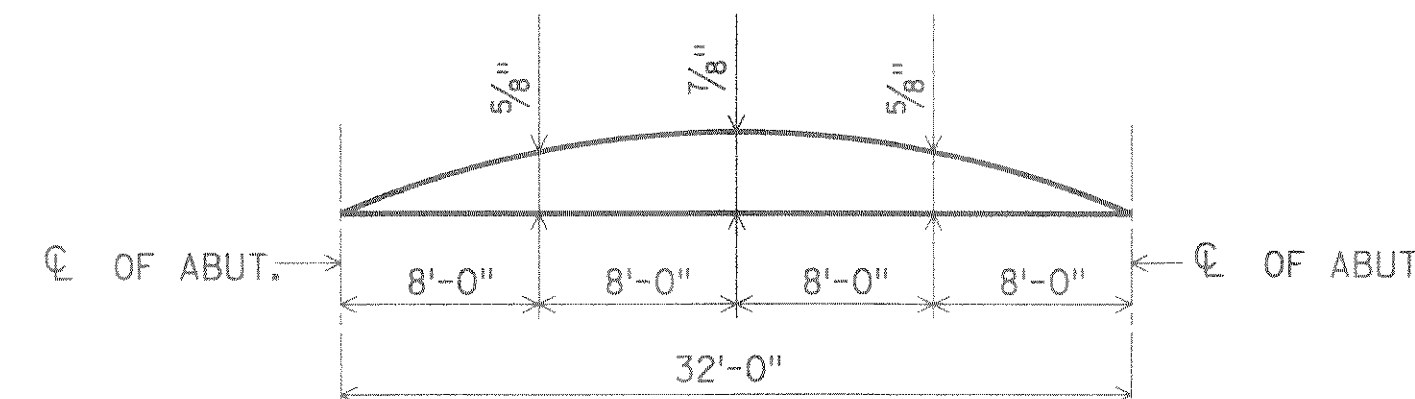
ALTERNATE TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

3/4" CONTINUOUS DRIP GROOVE BEGIN 2'-0" FROM ABUTMENTS

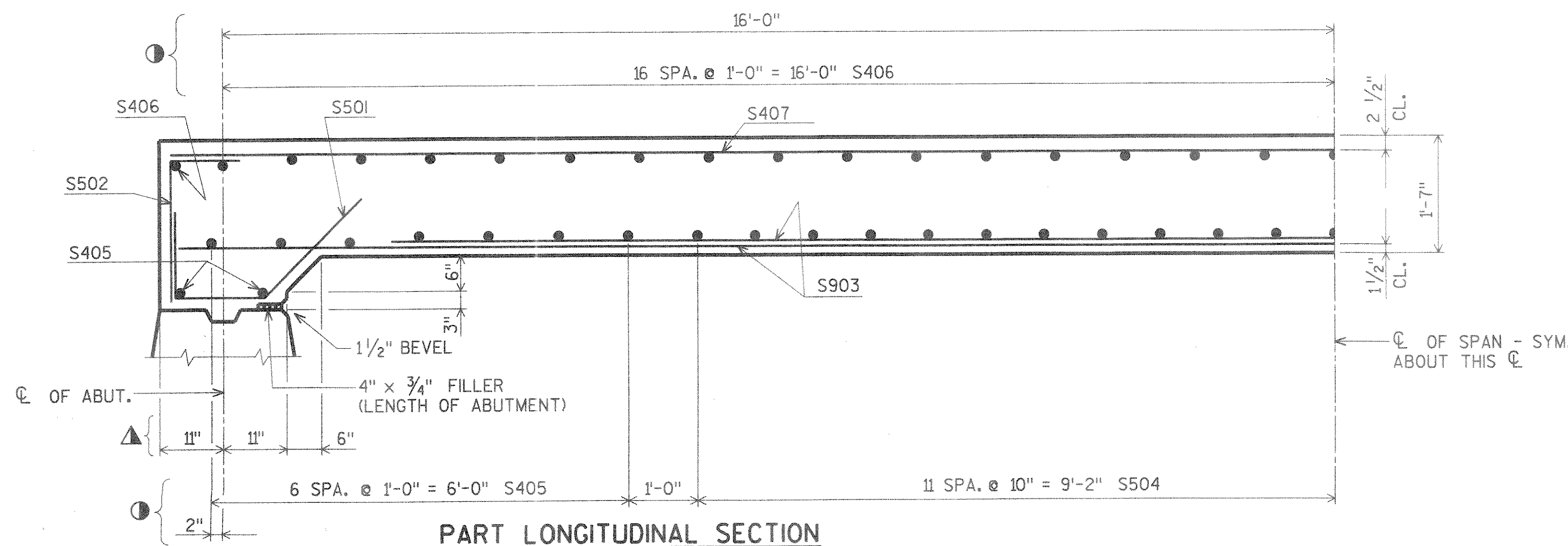
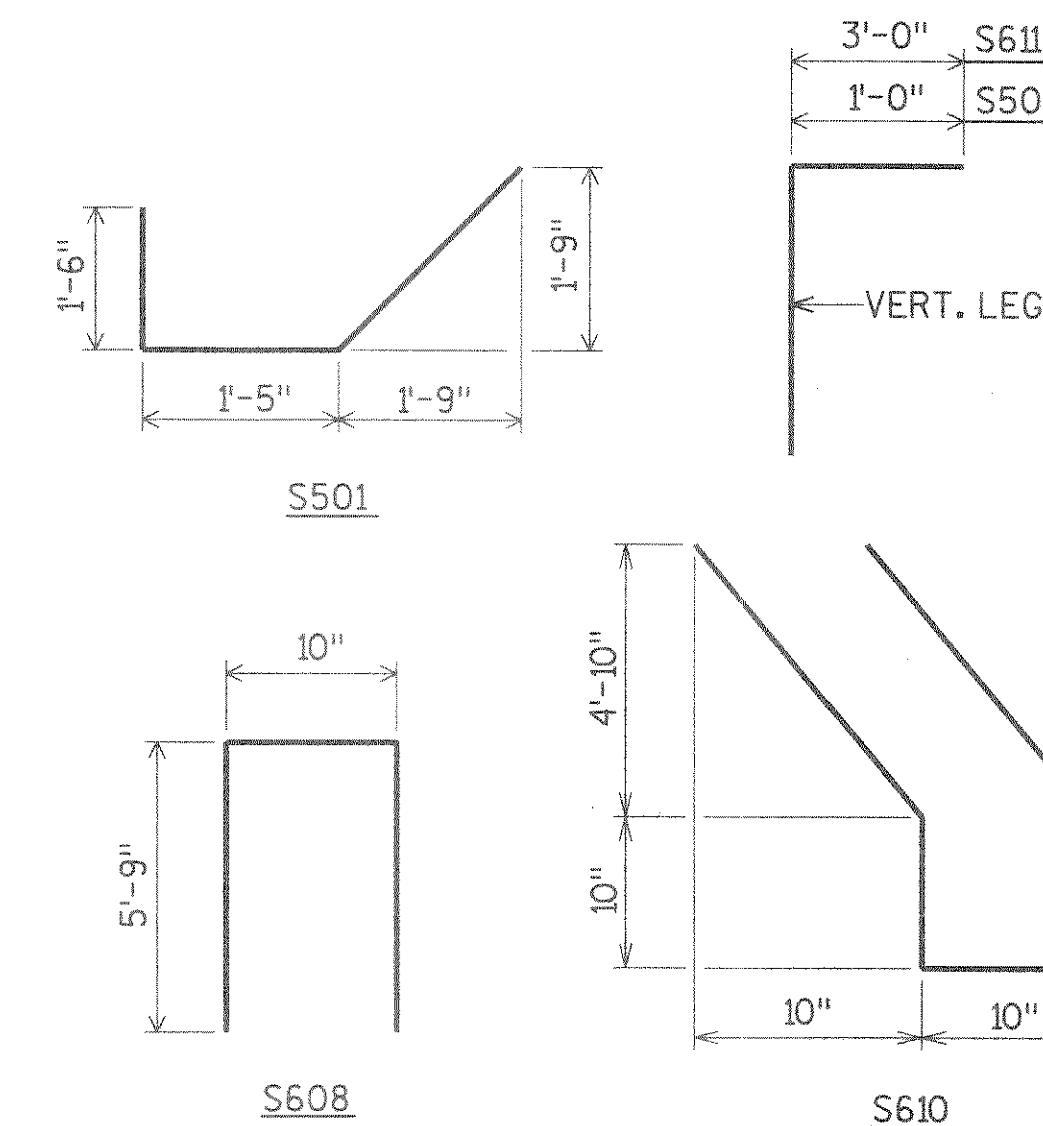


PLAN



CAMBER DIAGRAM

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION & FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.



PART LONGITUDINAL SECTION

⊙ DIMENSIONS MEASURED ALONG CL. OF WEGNER ROAD.

▲ DIMENSIONS MEASURED NORMAL TO CL. OF SUBSTRUCTURE.

BILL OF BARS

BAR NO.	NO. REQ'D.	LENGTH	BENT BAR	COATED BAR	CUT. DIAGR.	1,460# COATED 6,570# UNCOATED	
							LOCATION
S501	52	5-3	X				SLAB @ ABUT.
S502	52	2-10	X	X			SLAB @ ABUT.
S903	52	30-3					SLAB LONG. BOT.
S504	23	26-0					SLAB TRANS. BOT.
S405	18	26-0					SLAB TRANS. BOT.
S406	35	26-0	X				SLAB TRANS. TOP
S407	18	33-6	X				SLAB LONG. TOP
S608	8	12-0	X	X			SLAB @ RAIL POSTS
S609	12	4-0	X				SLAB @ RAIL POSTS
S610	2	12-0	X	X			SLAB @ EXT. RAIL POSTS
S611	8	4-0	X	X			SLAB @ EXT. RAIL POSTS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

REF NC REF LN
 REF NB REF LN
 REF NA REF LN
 CHECKED BY: DATE:
 BACK CHECKED BY: DATE:
 CORRECTED BY: DATE:

No.	Date	Revision	By
PLANS PREPARED BY AYRES ASSOCIATES Engineers/Architects Planners/Surveyors Owen Ayres & Associates Inc. Eau Claire, Wisconsin			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-I26			
Const. Spec.	1989	Drawn By: CLS	Plans Checked: C.B.M.
SUPERSTRUCTURE			SHEET 6 OF 7

LEGEND

- ① W6X25 WITH 1 1/4" φ HOLES ON EACH SIDE OF POST FOR STUD NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- ② PLATE 1" X 9 1/2" X 0'-10", WITH 1/16" X 1 1/2" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
- ③ A325 - 7/8" φ HEX BOLTS (GALVANIZED) WITH A325 NUT AND WASHER. 4 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-2" LONG AT END POSTS AND 1'-0" LONG AT ALL OTHER POST LOCATIONS.
- ④ 1/4" X 8" X 8" FLAT BAR, WITH 1/16" φ HOLES FOR ANCHOR BOLTS NO. 3.
- ⑤ TS 4X4X.25 STRUCTURAL TUBING, CONFORMING TO A.S.T.M. DESIGNATION A501 OR A500 GRADE B. ATTACH TO NO. 1 WITH STUDS NO. 6.
- ⑥ 5/8" φ X 1 1/2" LONG SHOP WELDED STUDS, WITH HEX. NUT AND 2" WASHERS. FOUR PER POST REQ'D. (TWO REQ'D. AT EACH LOCATION).
- ⑦ PLATE 3/8" X 1'-4" X 1'-8", BOLT TO RAIL AS SHOWN IN DETAIL. REQ'D. AT THRIE BEAM ATTACHMENTS ONLY. PLACE SYMETRICALLY ABOUT TUBES NO. 5.
- ⑧ 1" φ HOLES IN PLATE NO. 7 AND TUBES NO. 5 FOR 7/8" φ A325 BOLTS WITH HEX NUTS AND WASHERS.
- ⑨ SQUARE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT" WITH A MINIMUM OUT TO OUT DIMENSION OF 3 1/2".
- ⑩ TS 3 X 3 X .25 X 1'-10" LONG. PROVIDE 1/2" φ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 5. PROVIDE 3/8" φ X 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE "TUBULAR RAILING TYPE 'F', WHICH INCLUDES ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

POSTS BASE PLATES, NO. 2, SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

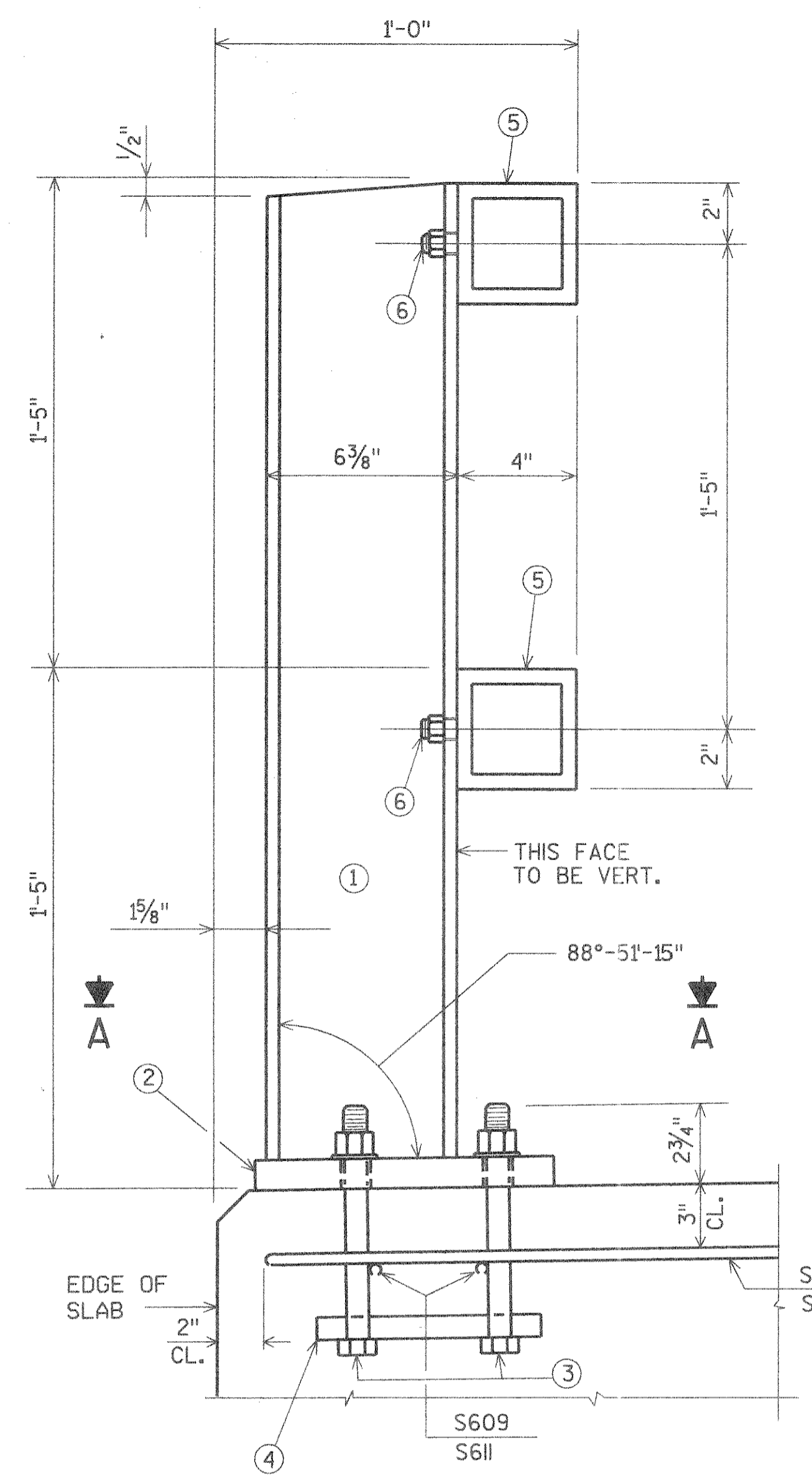
ALL MEMBERS EXCEPT ANCHORAGE DETAIL (NO. 3 & 4) SHALL BE GALVANIZED AFTER FABRICATION. GALVANIZING OF NO. 4 IS NOT REQUIRED.

FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

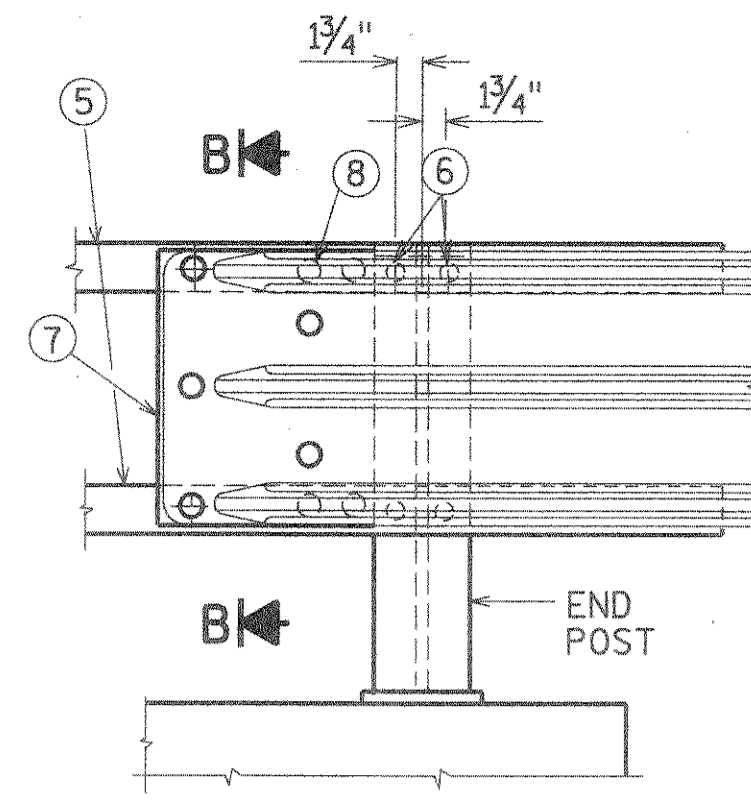
ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

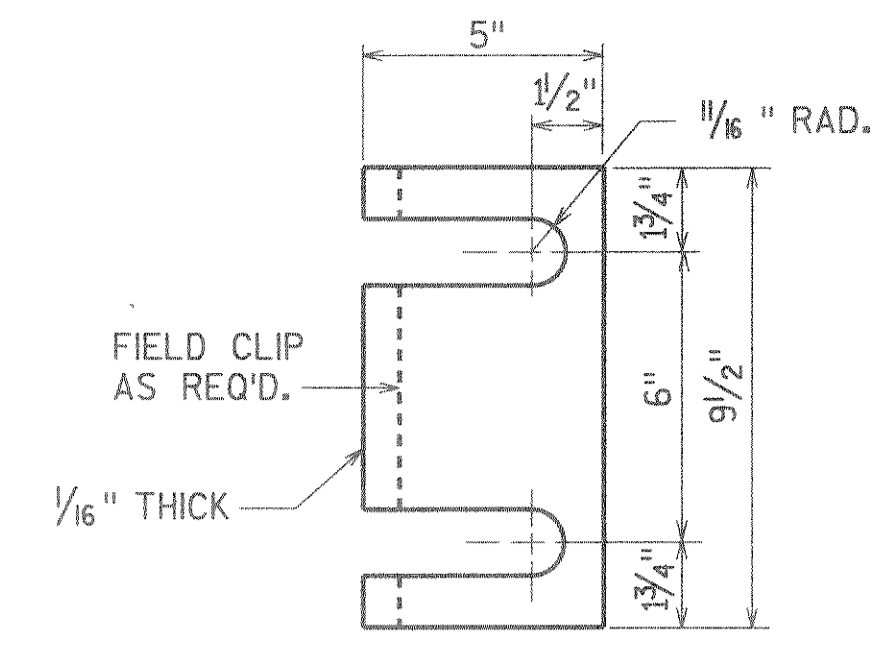
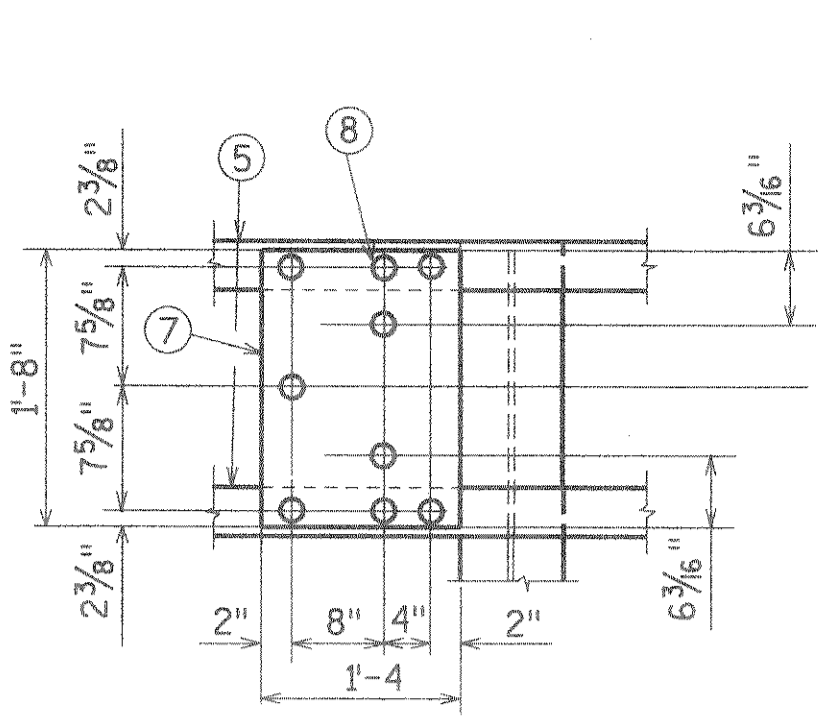


SECTION THRU RAILING

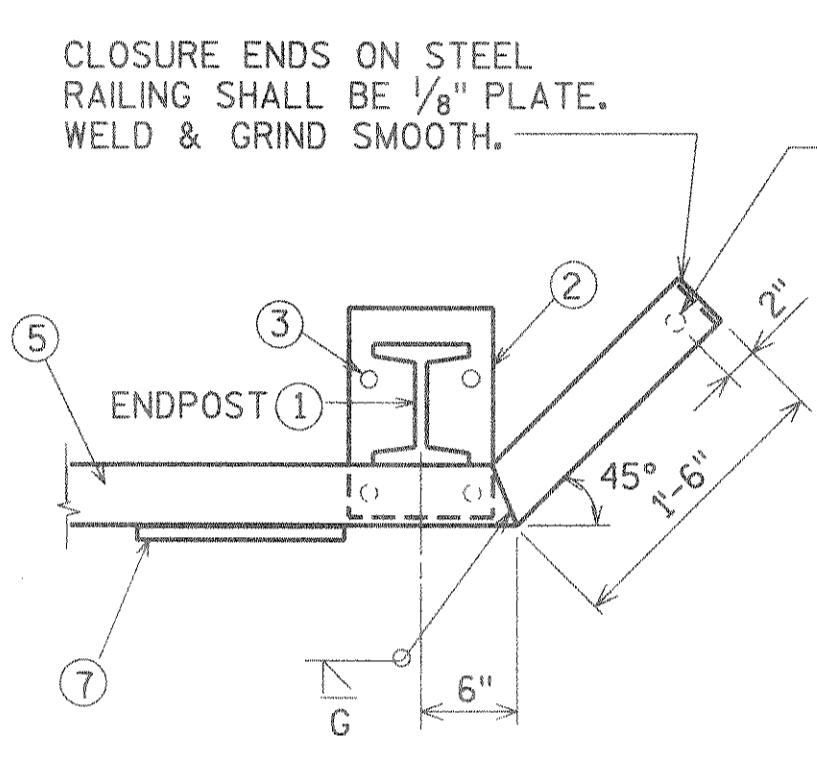


**DETAIL AT END POST
(THRIE BEAM RAIL ATTACHMENT)**

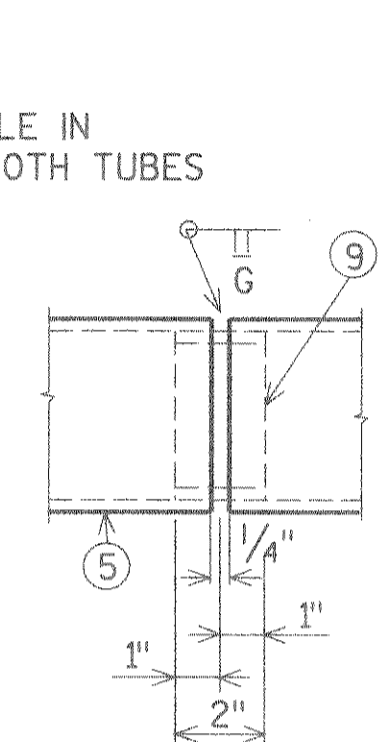
SECTION B



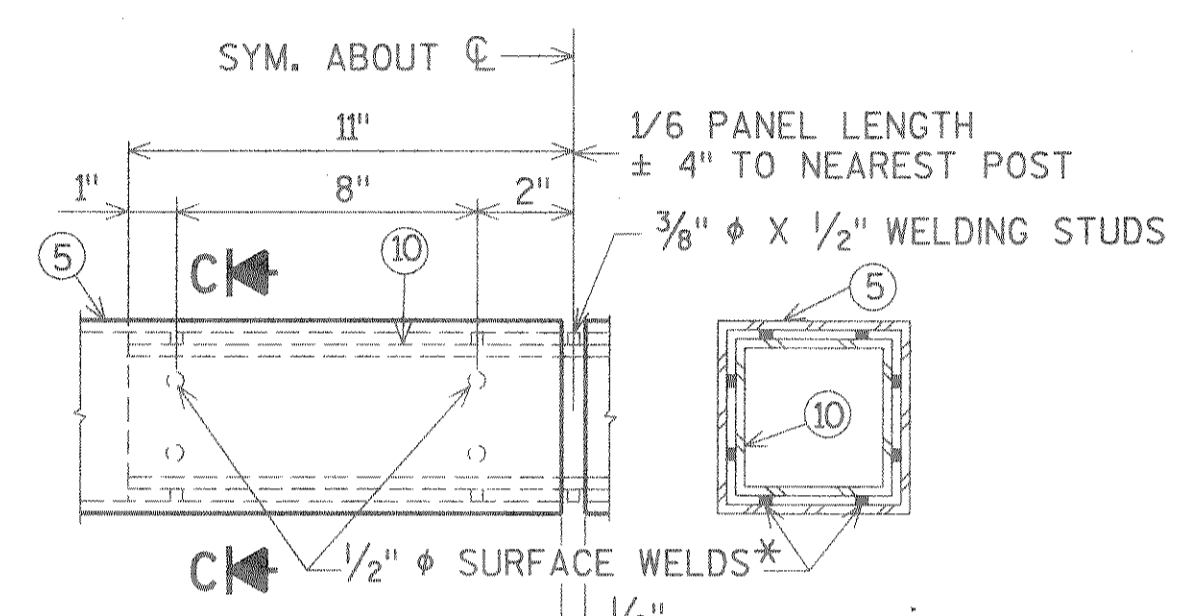
**POST SHIM DETAIL
(4 PER POST)**



DETAIL FOR END POSTS

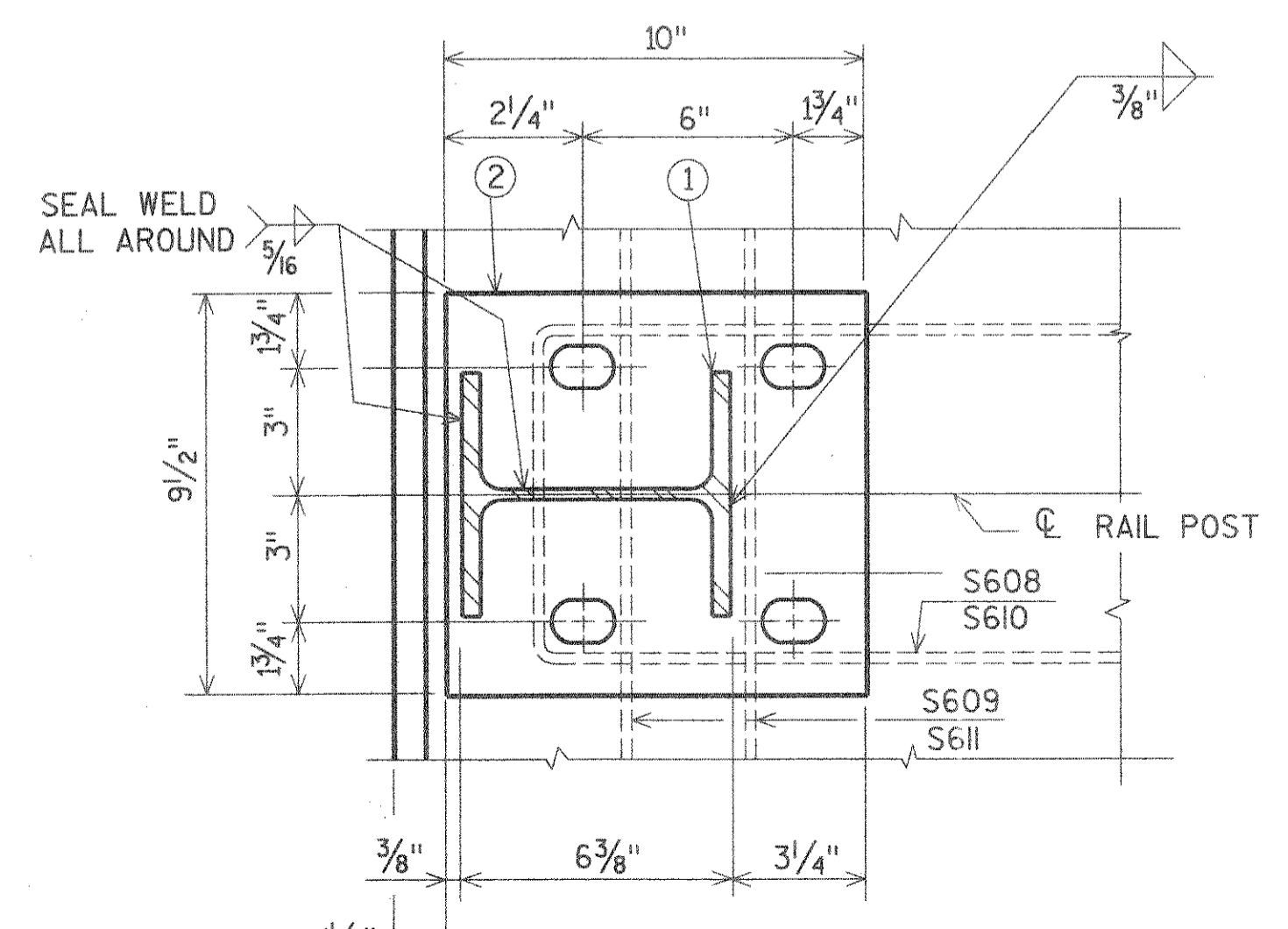


**SHOP RAIL
SPLICE DETAIL
(LOCATION MUST BE SHOWN
ON THE SHOP DRAWINGS)**

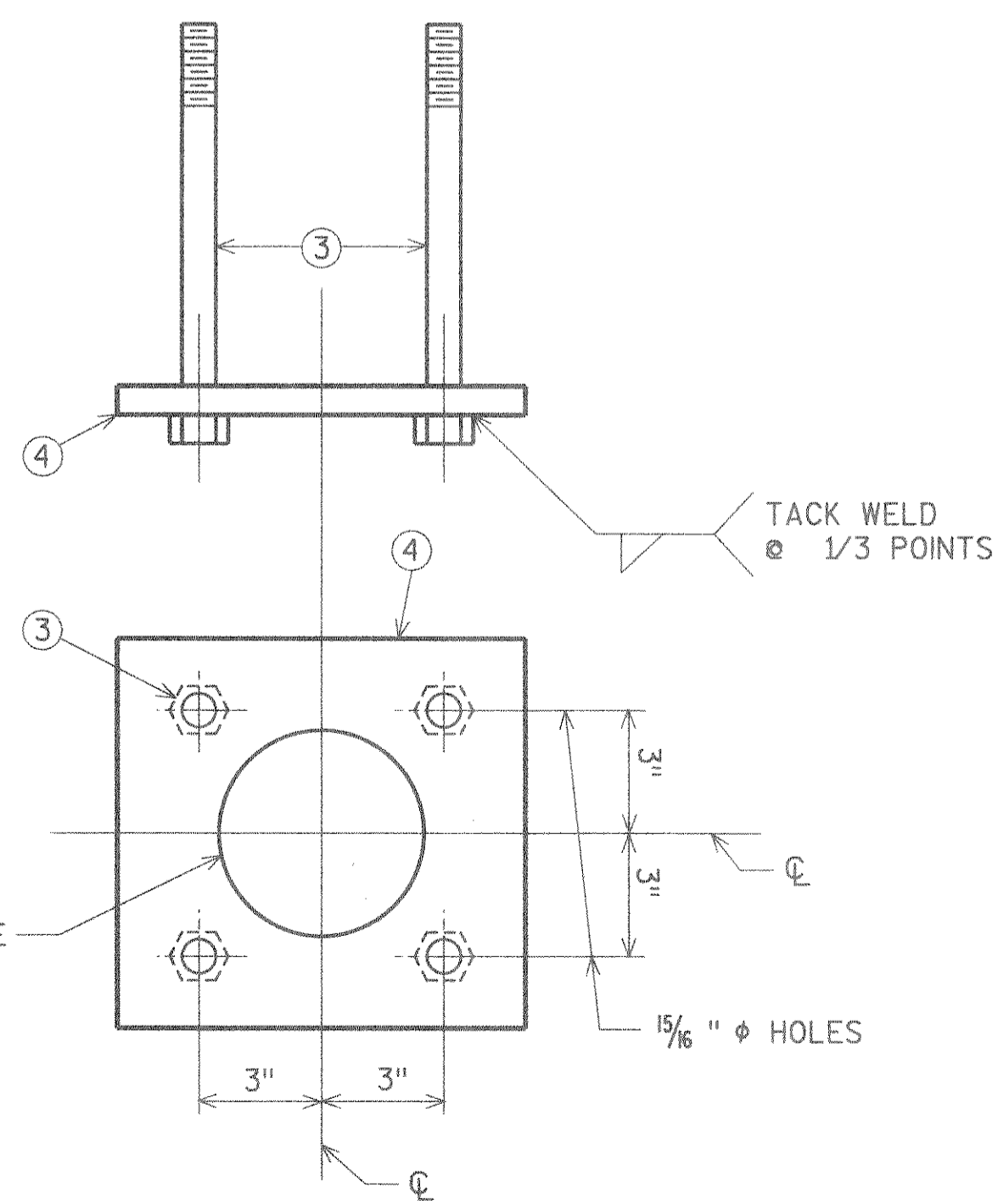


**FIELD ERECTION
JOINT DETAIL**

*MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SECTION A



ANCHORAGE DETAIL

PEN TABLE = collgbr.tbl
DATE OF PLOT = 01/21/94
DESIGN FILE IS /usr/work/trbrldge/5019sup.dgn
DGN LEVELS ON = 1-63

REF NC
REFLNC

REFERENCE FILES
REF NB
REFLNB

REF NA
REFLNA

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

No.	Date	Revision	By
PLANS PREPARED BY			
AYRES Engineers/Architects Planners/Surveyors Owen Ayres & Associates Inc. Eau Claire, Wisconsin			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-126			
Const. Spec.	1989	Drawn By	CLS
		Plans Checked	C.B.M.
TUBULAR RAILING TYPE 'F'			SHEET 7 OF 7