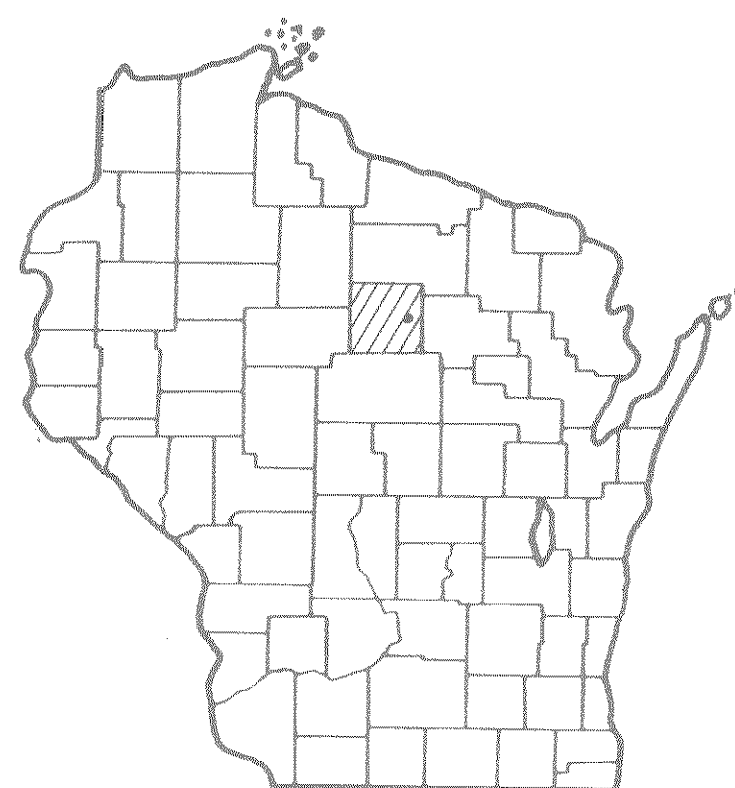


Index of Sheets

Sheet No. 1	Title
Sheet No.	Typical Sections and Details
Sheet No.	Estimate of Quantities
Sheet No.	Miscellaneous Quantities
Sheet No.	Right of Way Plat
Sheet No.	Plan and Profile Sta. 18+00—Sta. 24+00
Sheet No.	Standard Detail Drawings
Sheet No.	Standard Sign Plates
Sheet No.	Structure Plans
Sheet No.	Computer Earthwork Data
Sheet No.	Cross Sections

TOTAL SHEETS =



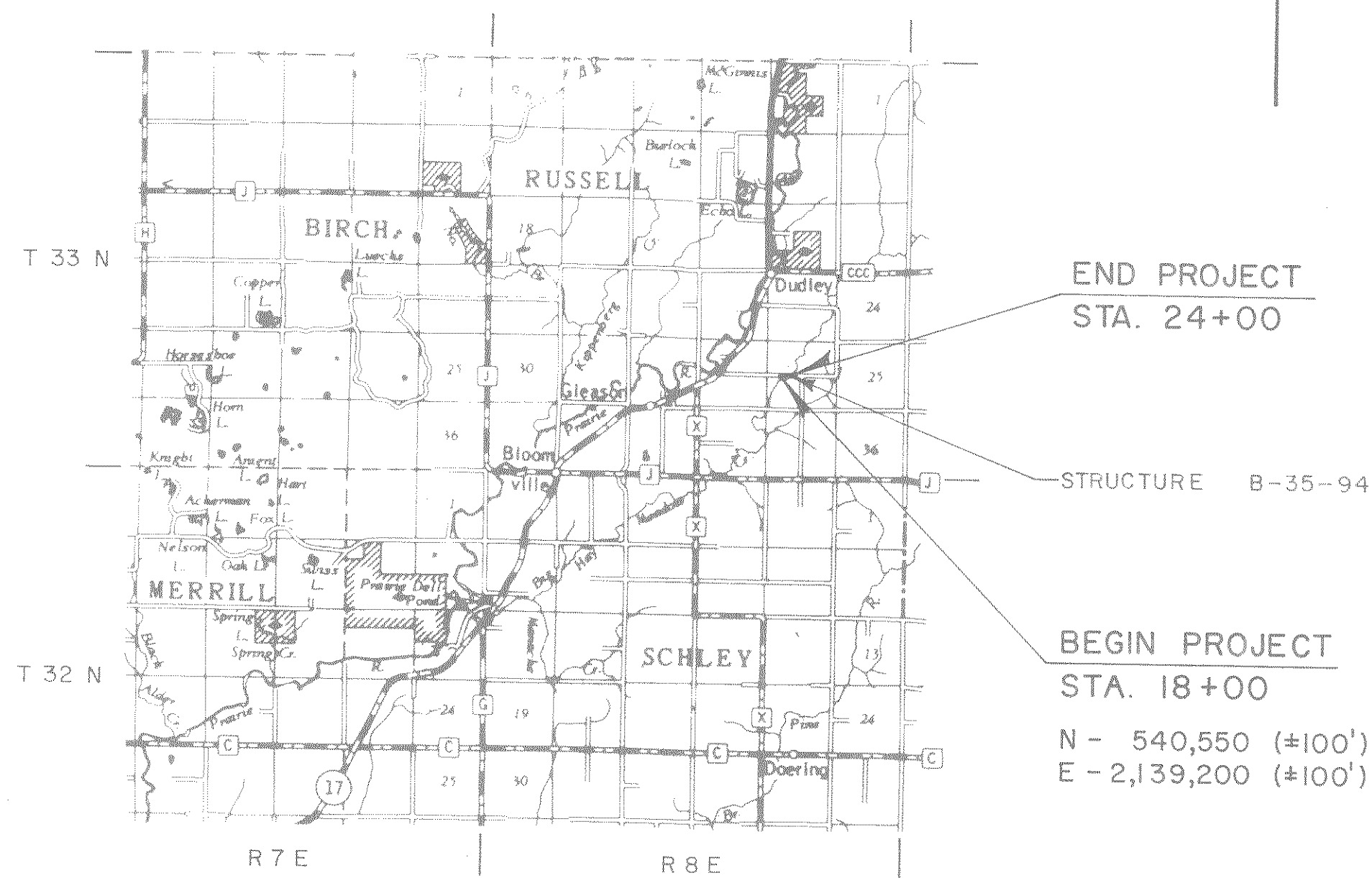
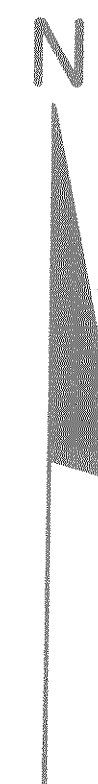
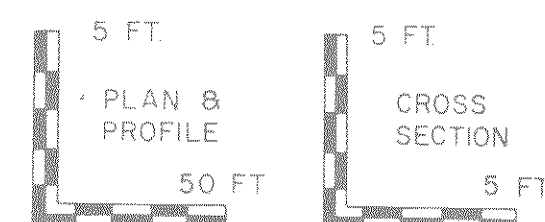
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT BIG HAY MEADOW CREEK BRIDGE AND APPROACHES

2ND AVENUE
TOWN ROAD
LINCOLN COUNTY

STATE PROJECT NUMBER
9859-03-70

Scales



Layout
Scale 0 1 2 Mi.

Total Net Length of Centerline = 0.114 Mi. Rural

Design Designation

A.D.T. (1986)	= 85
A.D.T. (2006)	= 135
D.H.V. (2006)	= 20
D.	= 50% — 50%
T.	= 7% A.D.T.
V.	= 40 MPH

Conventional Signs

County Line		Caution Symbol (Combustible fluids under pressure)	
Township or Range Line		Railroads	
Section Line		Fence	
Corporate or City Limits		Culverts in Place	
Property line		Culverts Required	
Lot Line		Power Pole	
Existing Right of Way Line		Telephone or Telegraph Pole	
New Right of Way Line		Right of Way Markers	
Base or Survey Line		Marsh	
Slope Intercept		Wooded Area	
Existing Roadway or Private Entrance		Grade Elevation	

FINAL PLANS 2-21-86

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9859-03-70	BRZ 3599(10)	I

FILE COPY

FEB 19 1986
DONOHUE & ASSOC. INC.

APPROVED FOR RUSSELL TOWNSHIP

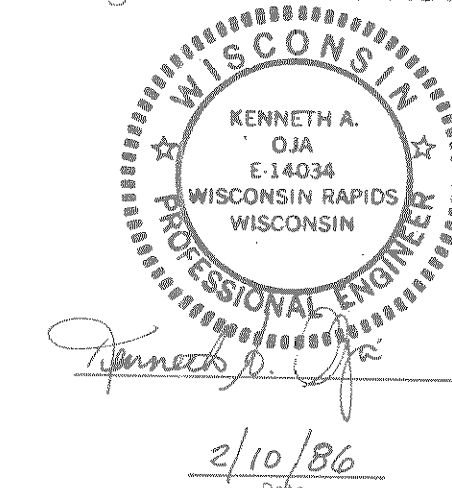
2/19/86 *Baron W. Kain*
Date Chairman

APPROVED FOR LINCOLN COUNTY

2/19/86 *Michael J. Harp*
Date Commissioner

ORIGINAL PLANS
PREPARED BY

Donohue
Engineers & Architects



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Surveyor Donohue & Assoc. Inc. District Checker D.D.K.
Designer Donohue & Assoc. Inc. C.O. Checker
District Supervisor R.J.S. C.O. Coordinator

Approved: _____
Date _____
District Transportation Director

Approved: _____
Date _____
Chief Design Engineer

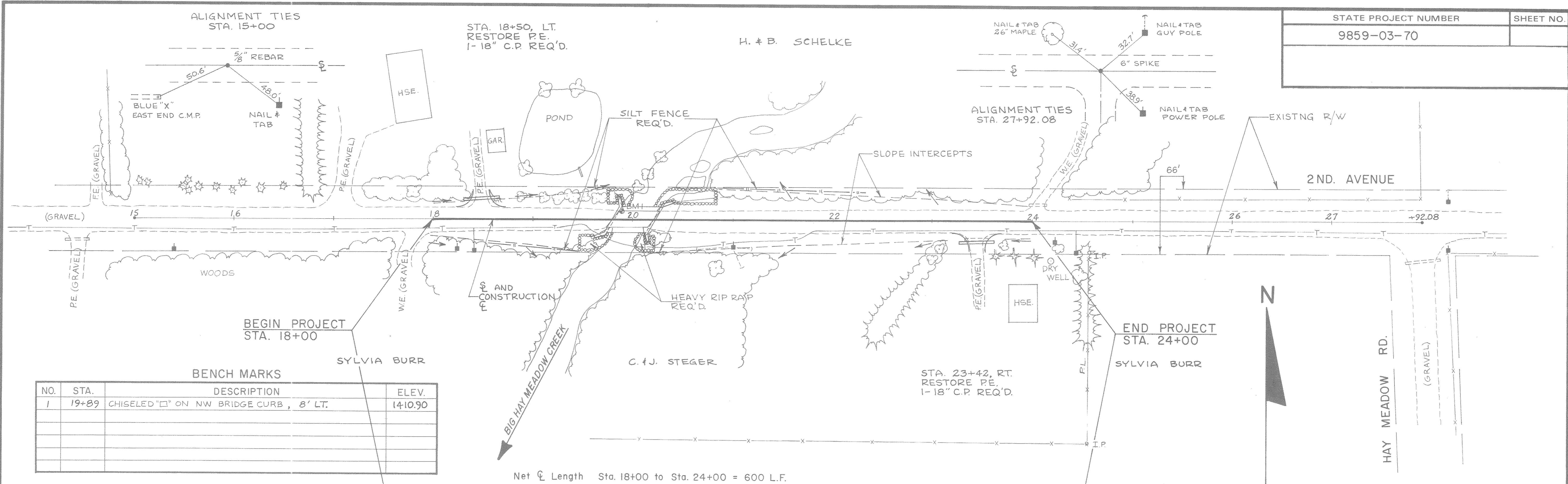
Approved: _____
Date _____
Director of Development

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 5 WISCONSIN DIVISION

Approved: _____
Date _____
Division Administrator

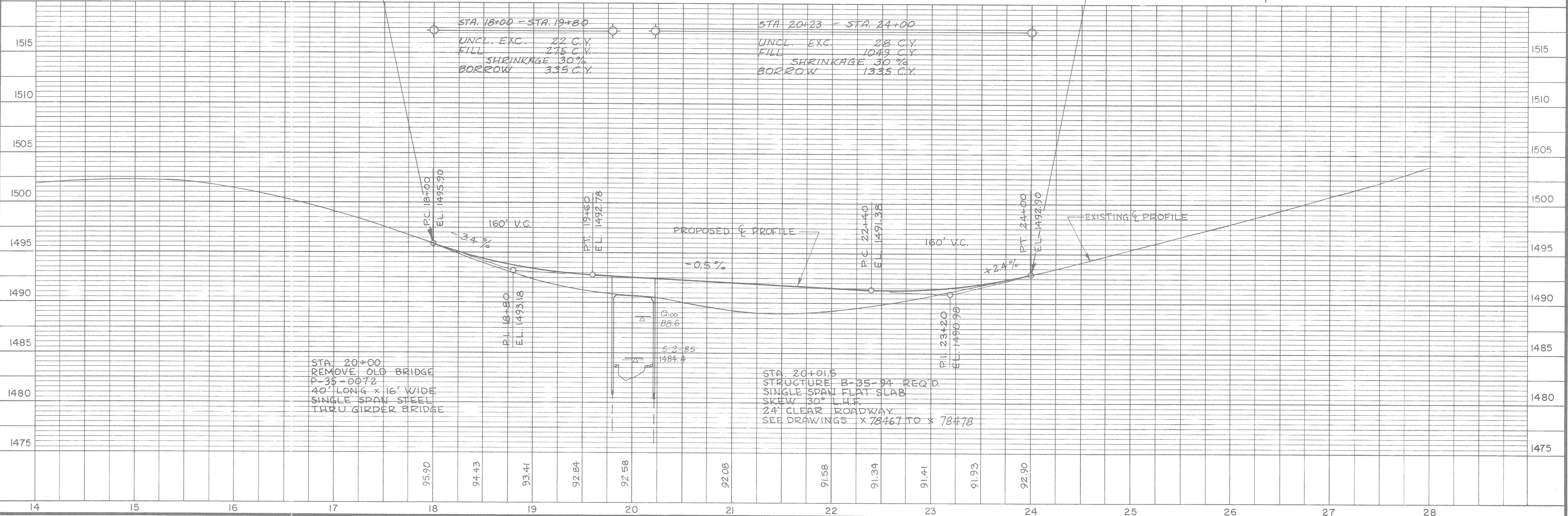
NOTE: ALL COORDINATES SHOWN ON THIS PLAN ARE BASED ON THE WISCONSIN COORDINATE SYSTEM CENTRAL ZONE AND ARE SCALED FROM U.S.G.S. TOPOGRAPHIC MAP, BLOOMVILLE WISCONSIN QUADRANGLE, FOR IDENTIFICATION ONLY.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO U.S.C. & G.S. DATUM.



BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
1	19+89	CHISELED "D" ON NW BRIDGE CURB, 8' LT.	1410.90



DESIGN DATA

LIVELOAD

DESIGN RATING: HS-20
 INVENTORY RATING: HS-23
 OPERATIONAL RATING: HS-38
 STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

ALLOWABLE 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.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10 x 42 STEEL PILES EST. 20'-0" LONG PREBORED TO EL. 1467±. DESIGN IS BASED ON A MINIMUM BEARING VALUE OF 55 TONS PER PILE.

HYDRAULIC DATA

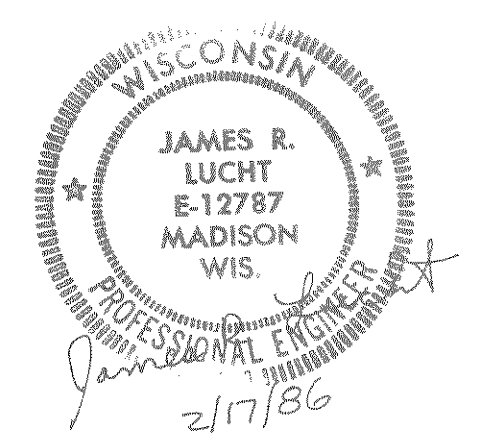
100 YEAR FREQUENCY

DRAINAGE AREA 24.9 sq. mi.
 Q_{100} 1000 c.f.s.
 VELOCITY 8.8 f.p.s.
 WAERWAY AREA 113 sq. ft.
 HIGH WATER₁₀₀ ELEVATION 1488.6±

ROAD OVERTOPPING NOT APPLICABLE

TRAFFIC DATA

A. D. T. (1986) = 85
 A. D. T. (2006) = 135
 DESIGN SPEED = 40 M.P.H.

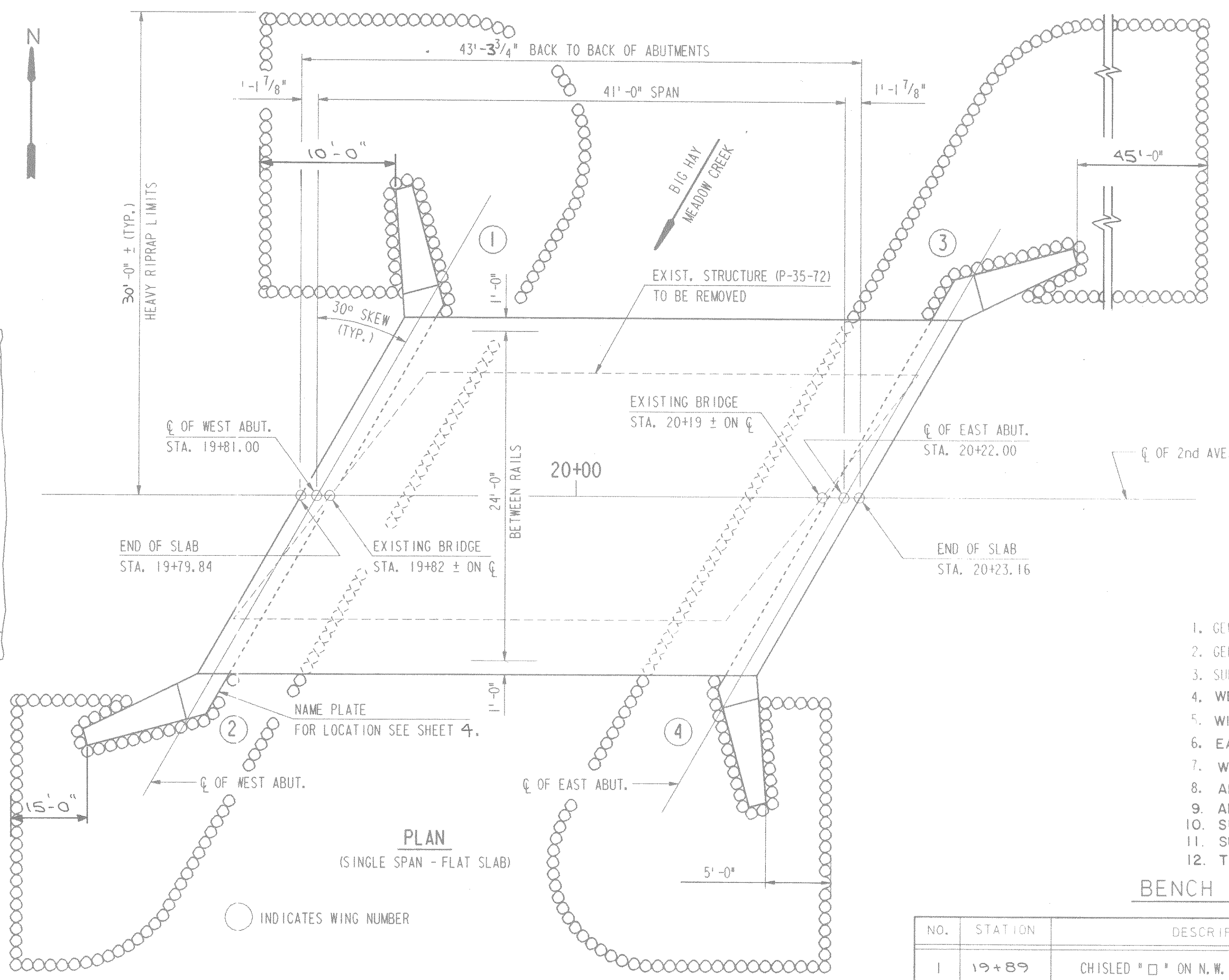


LIST OF DRAWINGS

1. GENERAL PLAN ——— X78467
2. GENERAL PLAN ——— X78468
3. SUBSURFACE EXPLORATION ——— X78469
4. WEST ABUTMENT ——— X78470
5. WINGS 1 & 2 ——— X78471
6. EAST ABUTMENT ——— X78472
7. WINGS 3 & 4 ——— X78473
8. ABUTMENT DETAILS ——— X78474
9. ABUTMENT DETAILS ——— X78475
10. SUPERSTRUCTURE ——— X78476
11. SUPERSTRUCTURE ——— X78477
12. TUBULAR RAILING, TYPE F-X78478

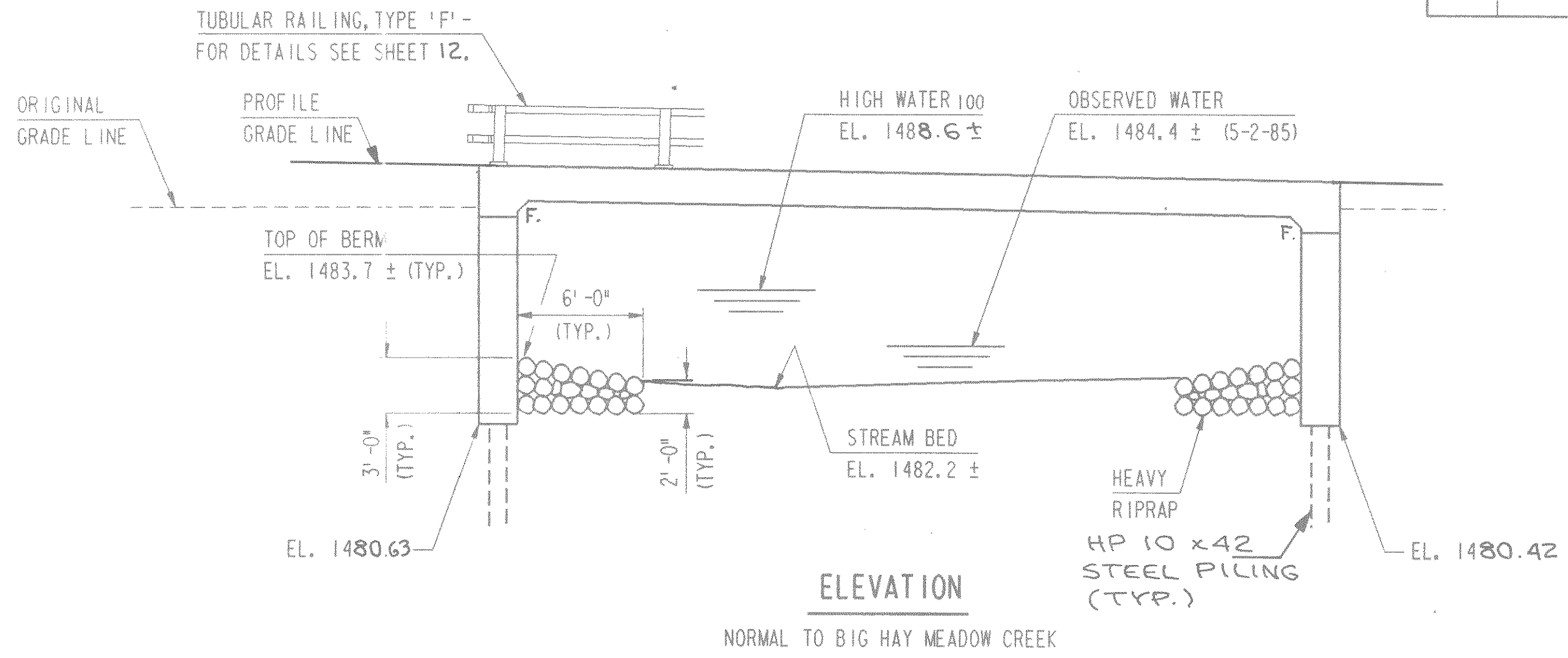
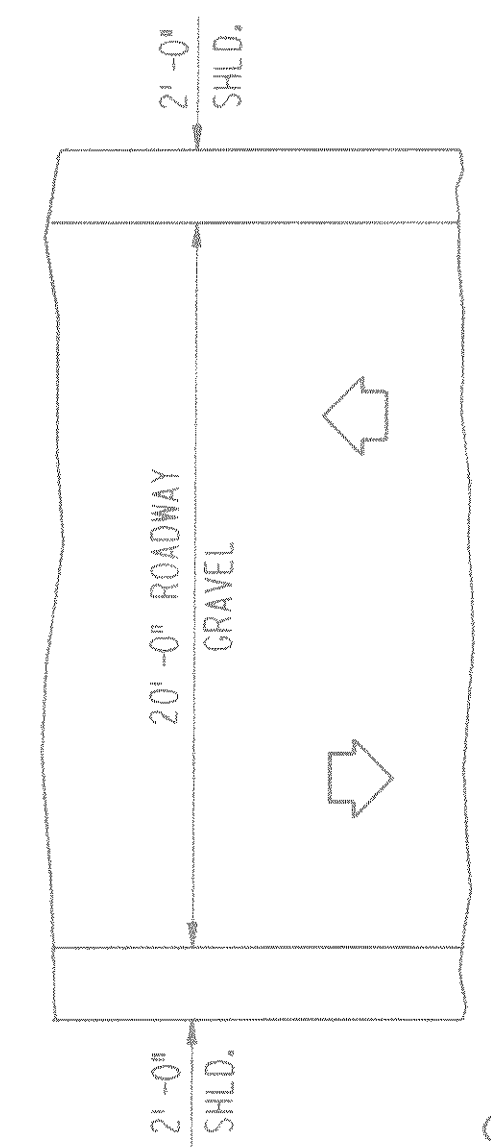
BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
1	19+89	CHISELED "□" ON N.W. WHEEL GUARD	1491.10



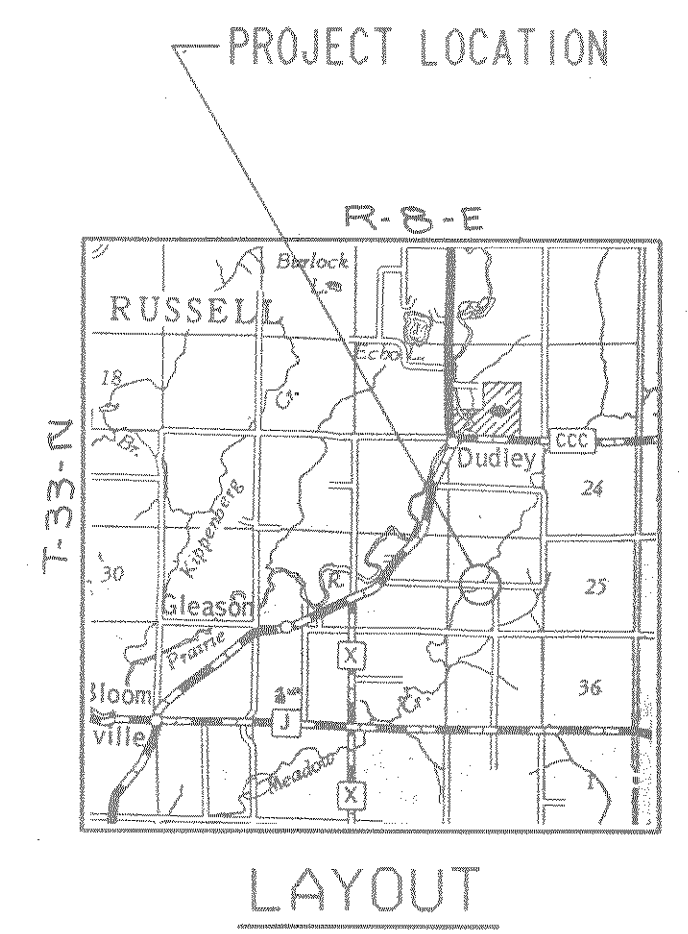
PLAN
(SINGLE SPAN - FLAT SLAB)

○ INDICATES WING NUMBER



ELEVATION

NORMAL TO BIG HAY MEADOW CREEK



LAYOUT

No.	Date	Revision	By

Donohue
 Engineers & Architects
 COMPUTER AIDED DESIGN/DRAFTING

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

STRUCTURE B-35-94
 2nd AVENUE OVER BIG HAY MEADOW CREEK

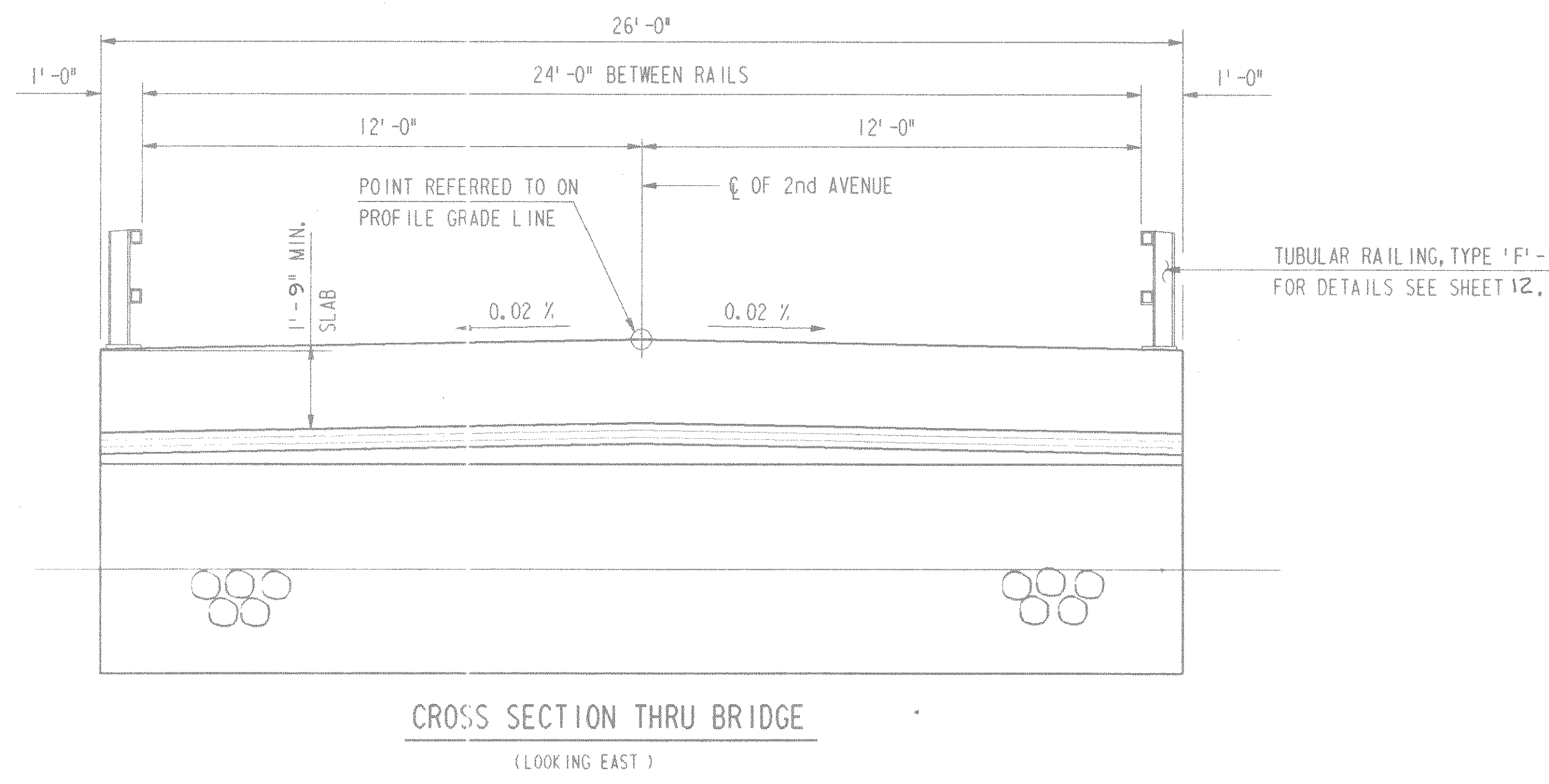
County	LINCOLN	TOWN OF	RUSSELL
Design Spec.	AASHTO 1984	Load	HS20
Const. Spec.	WIS. 1981		
Designed By	B. D.	Checked	JRL
Drawn By	D. F. K.	Plans Checked	JRL

Approved _____ State Bridge Engineer _____ Date _____

GENERAL PLAN

SHEET 1 OF 12
 X78467

PREP= GENPLAN1 (1460001)
 FILE= GENPLAN - PRE
 W.U. = 11/2/6000
 DATE = 11/28/85

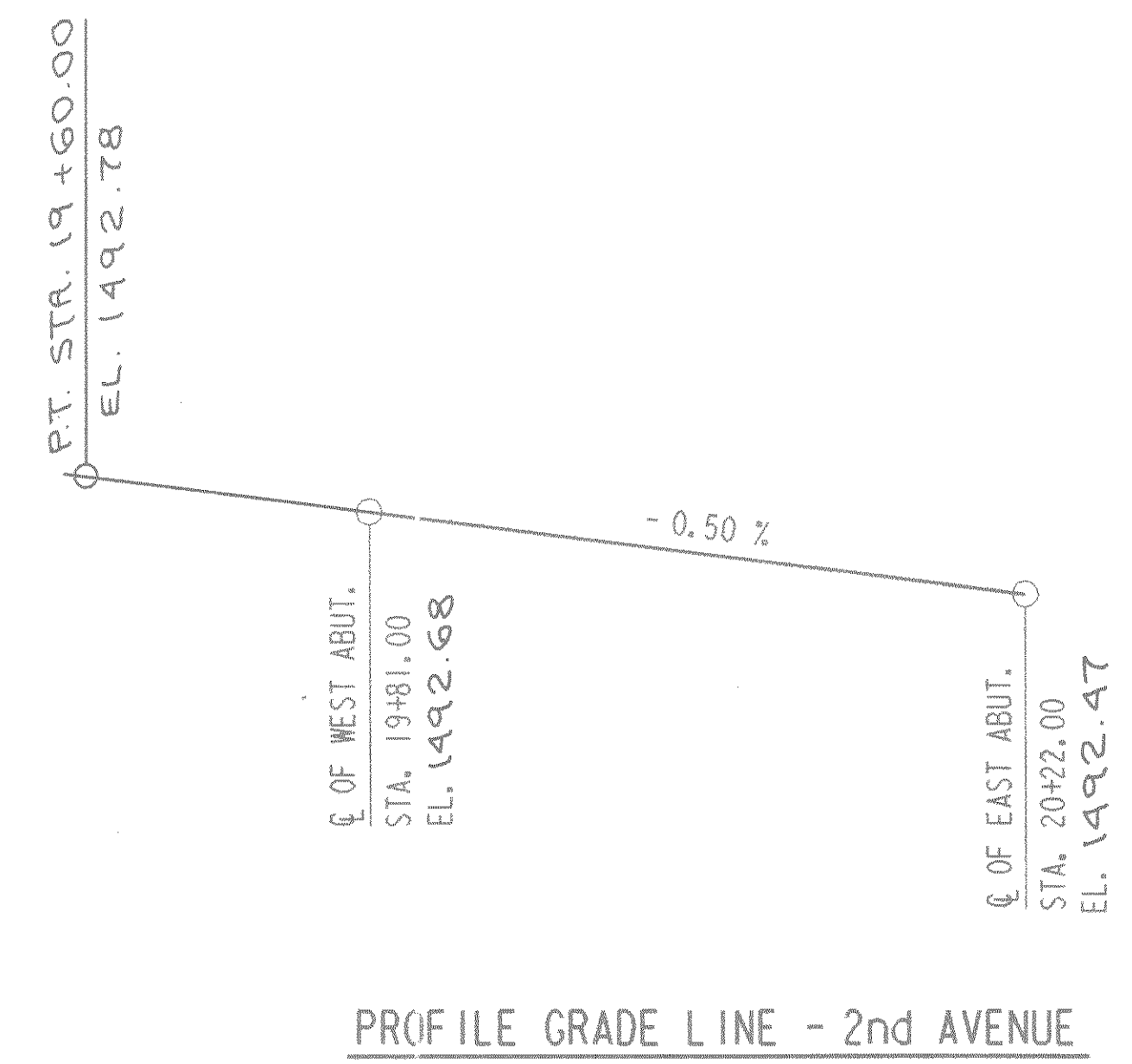


TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	WEST ABUT.	EAST ABUT.	SUPER.	TOTAL
REMOVING OLD BRIDGE, STATION 20+00	L.S.				1
EXCAVATION FOR STRUCTURES, BRIDGES B-35-94	L.S.				1
CONCRETE MASONRY, BRIDGES	C.Y.	36.2	36.2	77.6	150
STRUCTURAL CARBON STEEL	LBS.			300	300
HIGH STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LBS.	2810	2810	11860	17,480
PROTECTIVE SURFACE TREATMENT	GAL.			5	5
STEEL PILING, DELIVERED AND DRIVEN HP 10-INCH 42 POUND	L.F.	140	140		280
TUBULAR RAILING, TYPE 'F', STRUCTURE B-35-94	L.S.				1
HEAVY RIPRAP	C.Y.	85	120		205
COATED HIGH STRENGTH BAR STEEL REINFORCEMENT	LBS.			1820	1820
PREBORING, PILING	L.F.	100	100		200
GEOTEXTILE FABRIC	S.Y.	125	170		295
NON-BID ITEMS					
POLYVINYL CHLORIDE WATERSTOP	L.F.	35	35		70
FILLER	SIZE				1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
 FILLER SHALL CONFORM TO A. A. S. H. T. O. DESIGNATION M153, TYPE I, II, III OR M213.
 THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.
 THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP TO THE LIMITS SHOWN ON SHEET 1, ON THE ABUTMENT SHEET OR AS DIRECTED BY THE ENGINEER.
 THE EXISTING STRUCTURE IS A SINGLE SPAN THROUGH GIRDER BRIDGE, 40' ± LONG.
 SLAB FALSEWORK SHALL BE SUPPORTED BY METHOD SUBJECT TO APPROVAL OF THE ENGINEER.



DATE =
 PRE = GENPLAN2 (140001)
 FILE = GENPLAN2.PRE
 W.U. = 11/21/2000 SECT 100
 W.U. =

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS. 1981	Drawn By	D.F.K. Checked JRL
GENERAL PLAN			SHEET 2 OF 12 X78468

BORINGS PERFORMED BY:
 SOILS & ENGINEERING SERVICES, INC.
 1120 STEWART STREET
 MADISON, WISCONSIN 53713
 BORINGS PERFORMED ON AUGUST 13, 1985

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. Sta. Elevation
 7 Average Blows Per Foot
 Refusal 95/6

LEGEND OF BORING

Unconfined Strength → 7.7
 Blows Per Ft. Using 140# Wt. Falling 30"
 Wash Sample
 Shell by Tube — S.T.
 Ground Water Elevation
 No Ground Water Observed Above This Elevation

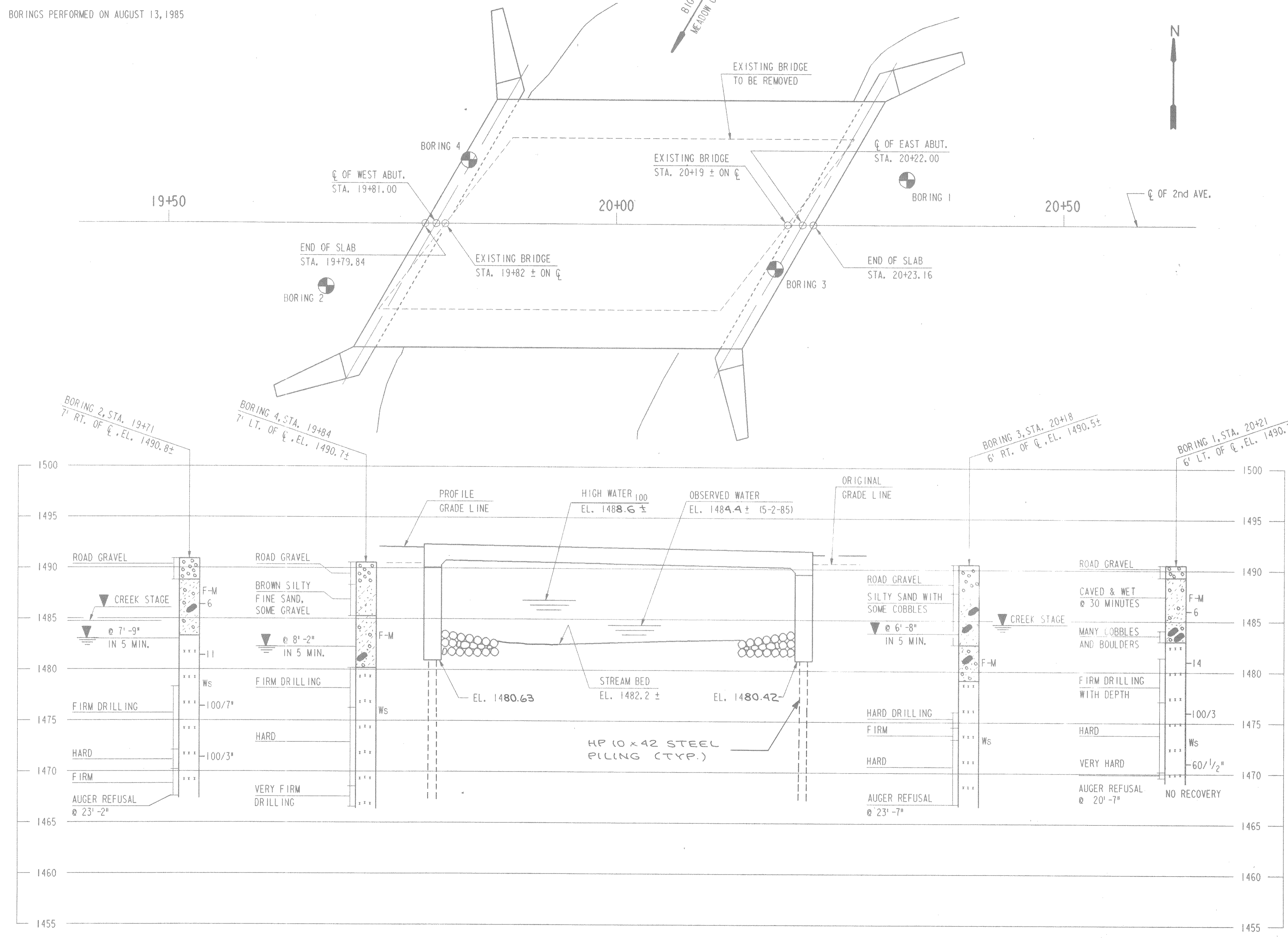
Sandy Gravel
 F.
 Boulders or Cobbles
 Sand
 Silty Clay
 So
 Limestone

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

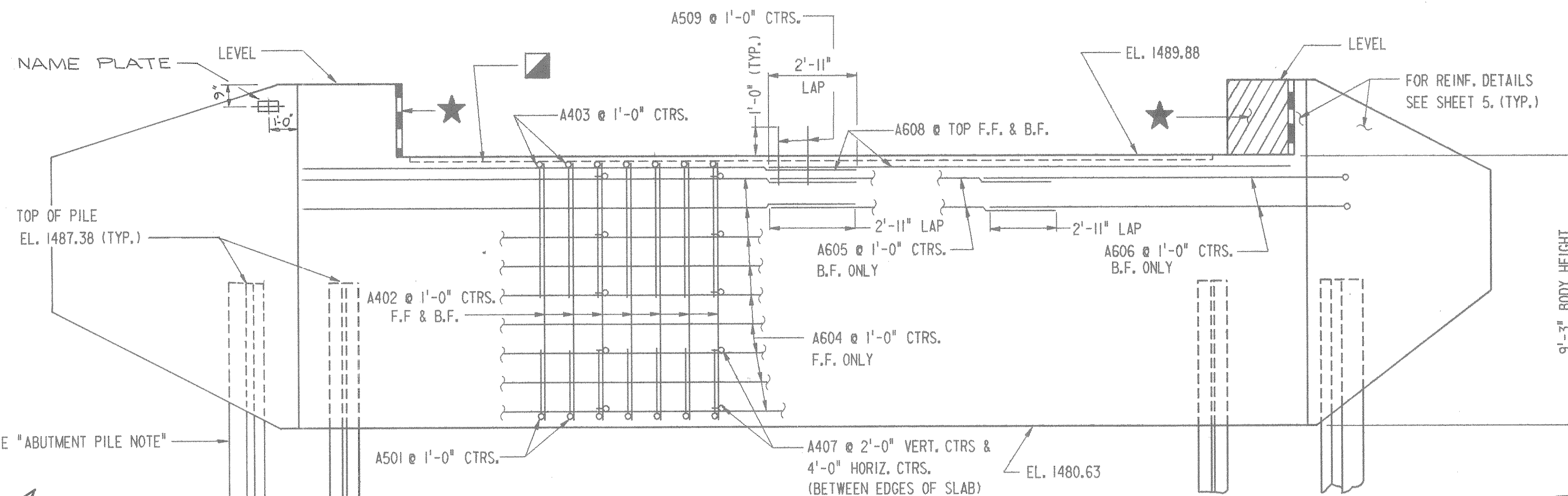
To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways 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.

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS. 1981	Drawn By	D. J. A.
		Plans Checked	JRL
SUBSURFACE EXPLORATION			SHEET 3 OF 12 X78469



DATE= 08-28-85
 PRF= BORING
 FILE= BORING.SHT

NOTE: A509 BARS MAY BE PLACED AFTER CONCRETE IS POURED, BUT BEFORE THE INITIAL SET HAS TAKEN PLACE.

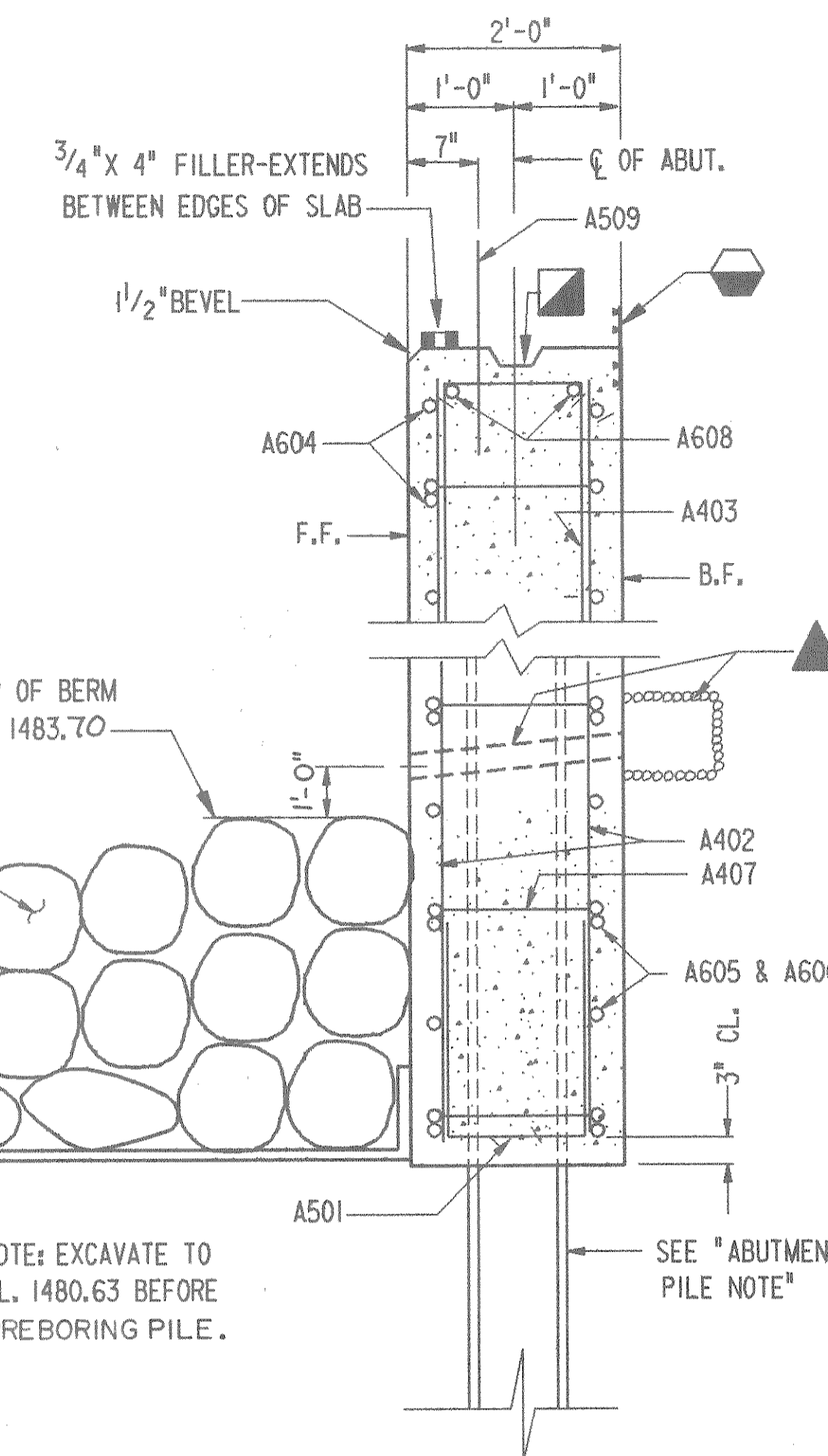


ELEVATION
(LOOKING WEST)

ABUTMENT PILE NOTE

PILING SHALL BE HP 10 X 42 STEEL PILING BASED ON A MIN. BRG. VALUE OF 55 TON PER PILE. ESTIMATED LENGTH OF PILING IS 20'-0" LONG. FOR PILE SPLICE SEE SHEET 8. PREBORE PILES TO EL. 1467±

WOVEN FILTER CLOTH - PLACE UNDER HEAVY RIPRAP AS SHOWN, TO BE PAID FOR AS "GEOTEXTILE FABRIC"

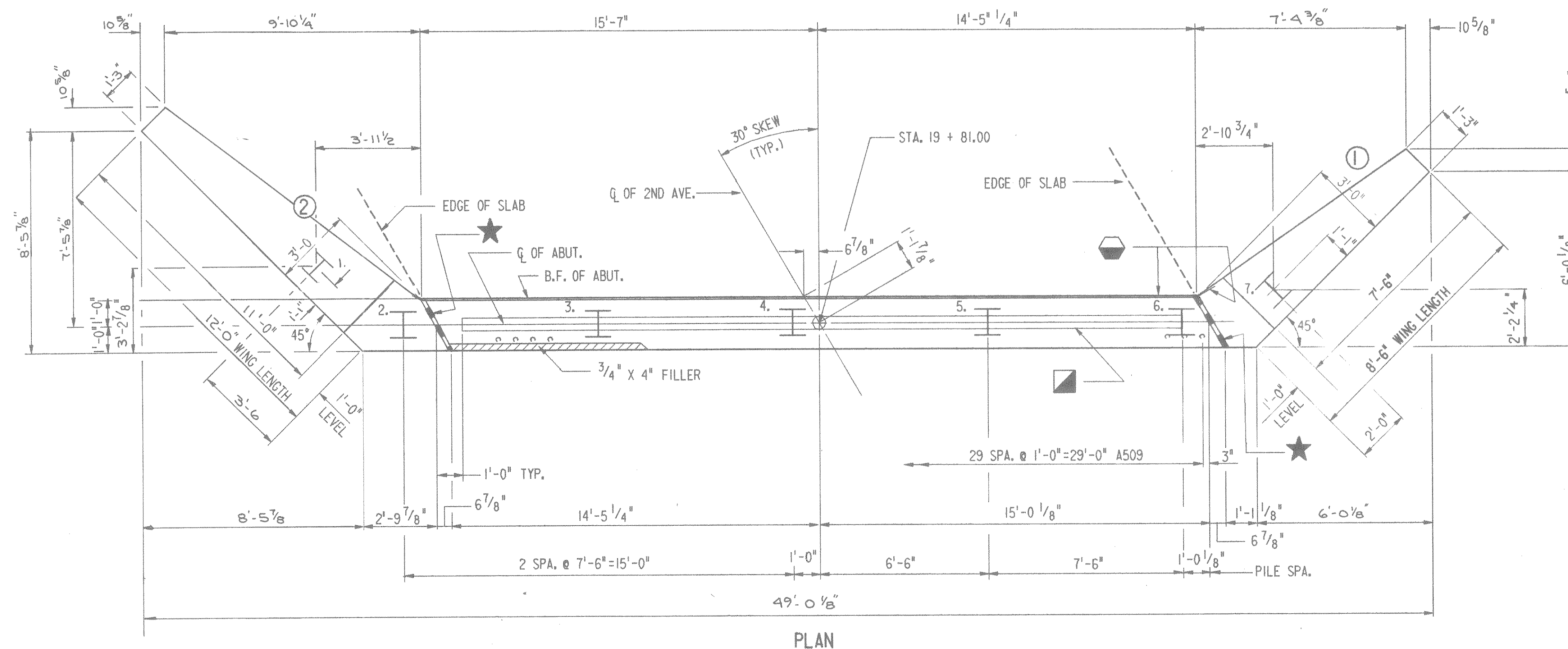


TYPICAL SECTION THRU BODY

NOTE: FOR SYMBOL ★, ◻ & ◐ DESCRIPTIONS SEE SHEET 8.

▲ - 2" DIA. WEEP HOLES AT 20'-0" CTRS. - USE FILTER CLOTH WITH SELECT GRANULAR MATERIAL AT EACH HOLE (ON B.F. 12" X 12" X 12" MIN.) COST INCIDENTAL TO "CONCRETE MASONRY, BRIDGES".

NOTE: DO NOT PLACE FILL ABOVE EL. 1482.6± UNTIL SUPERSTRUCTURE CONCRETE IS IN PLACE.

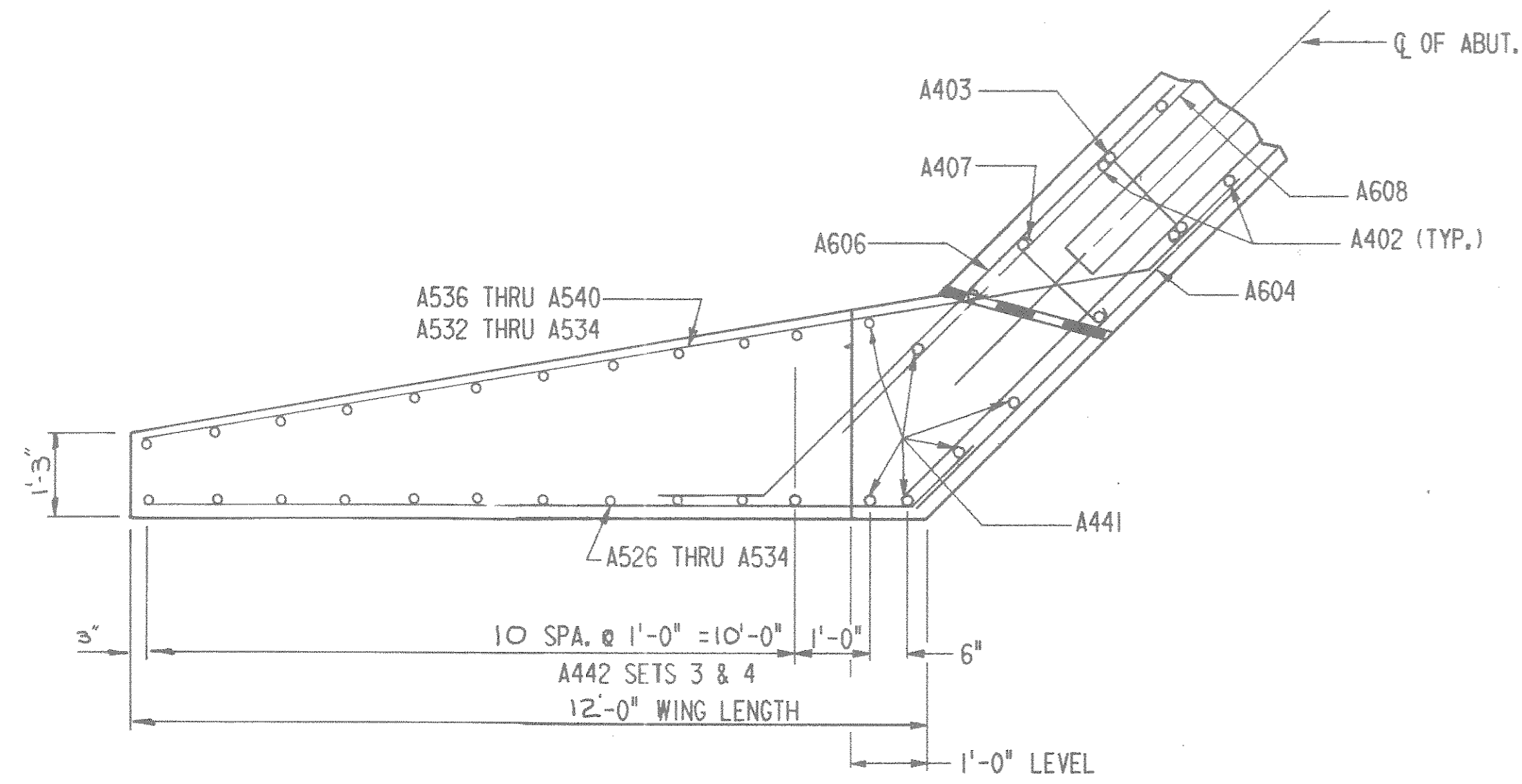


PLAN

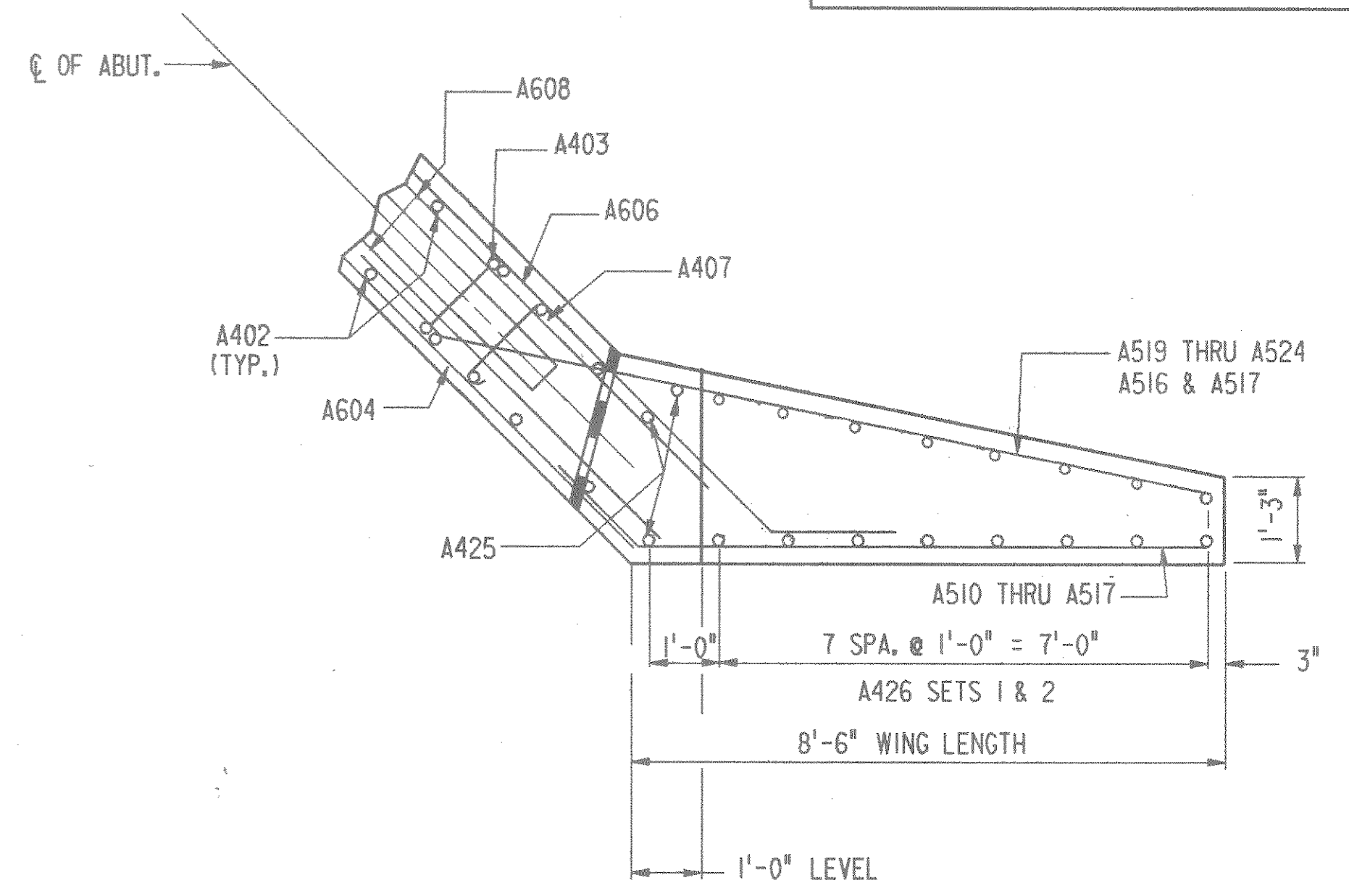
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS. 1981	Drawn By	T.A.W
		Plans Checked	JRL
WEST ABUTMENT			SHEET 4 OF 12
X78470			

PRF= WESTAB02 [140001]
FILE= WESTABUT.FIN
W.U.= 11:12:12000 PLAN
W.U.=

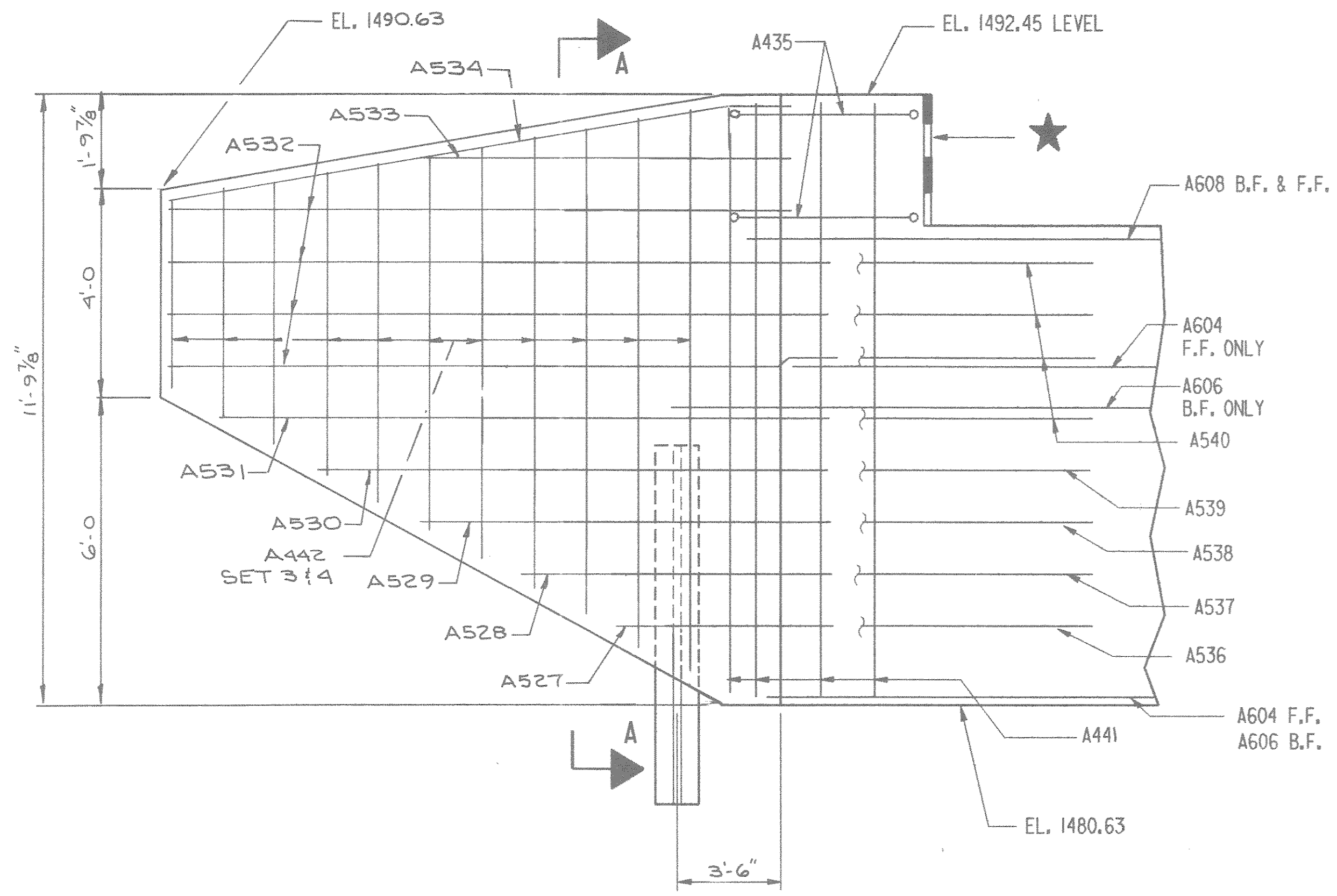
DATE= 12-27-85



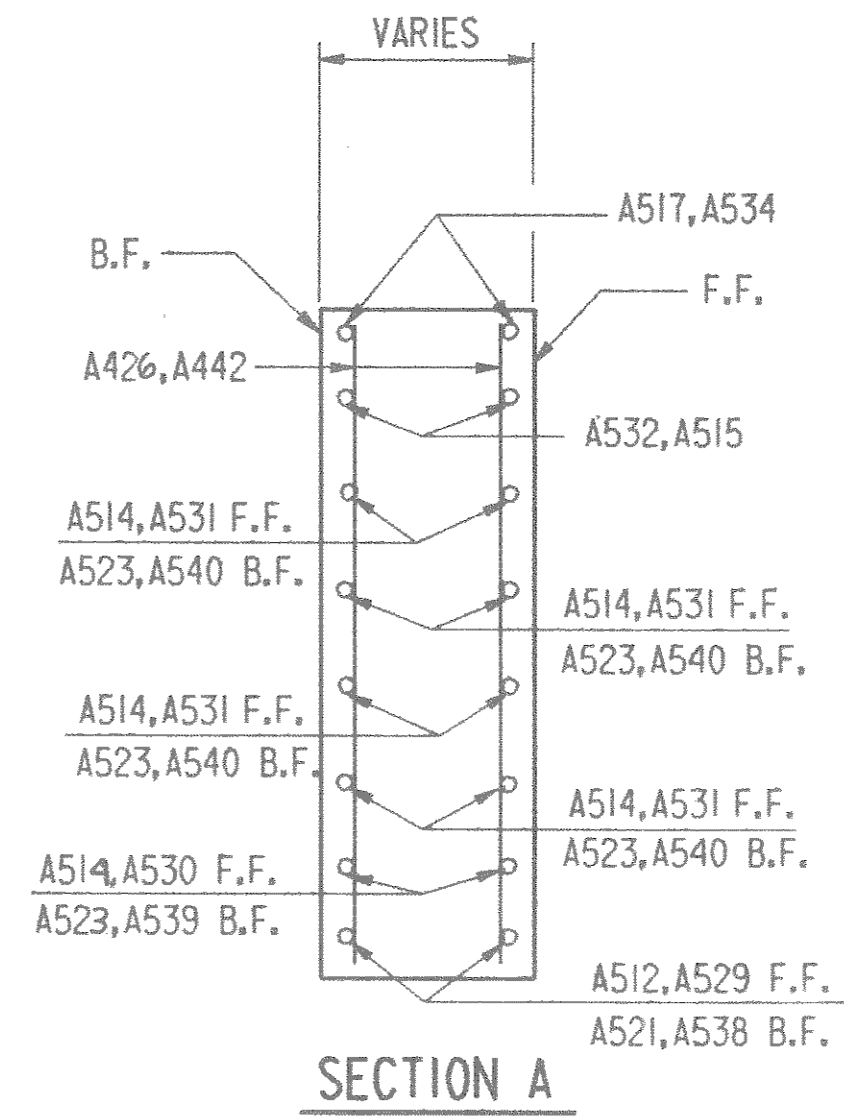
PLAN WING 2



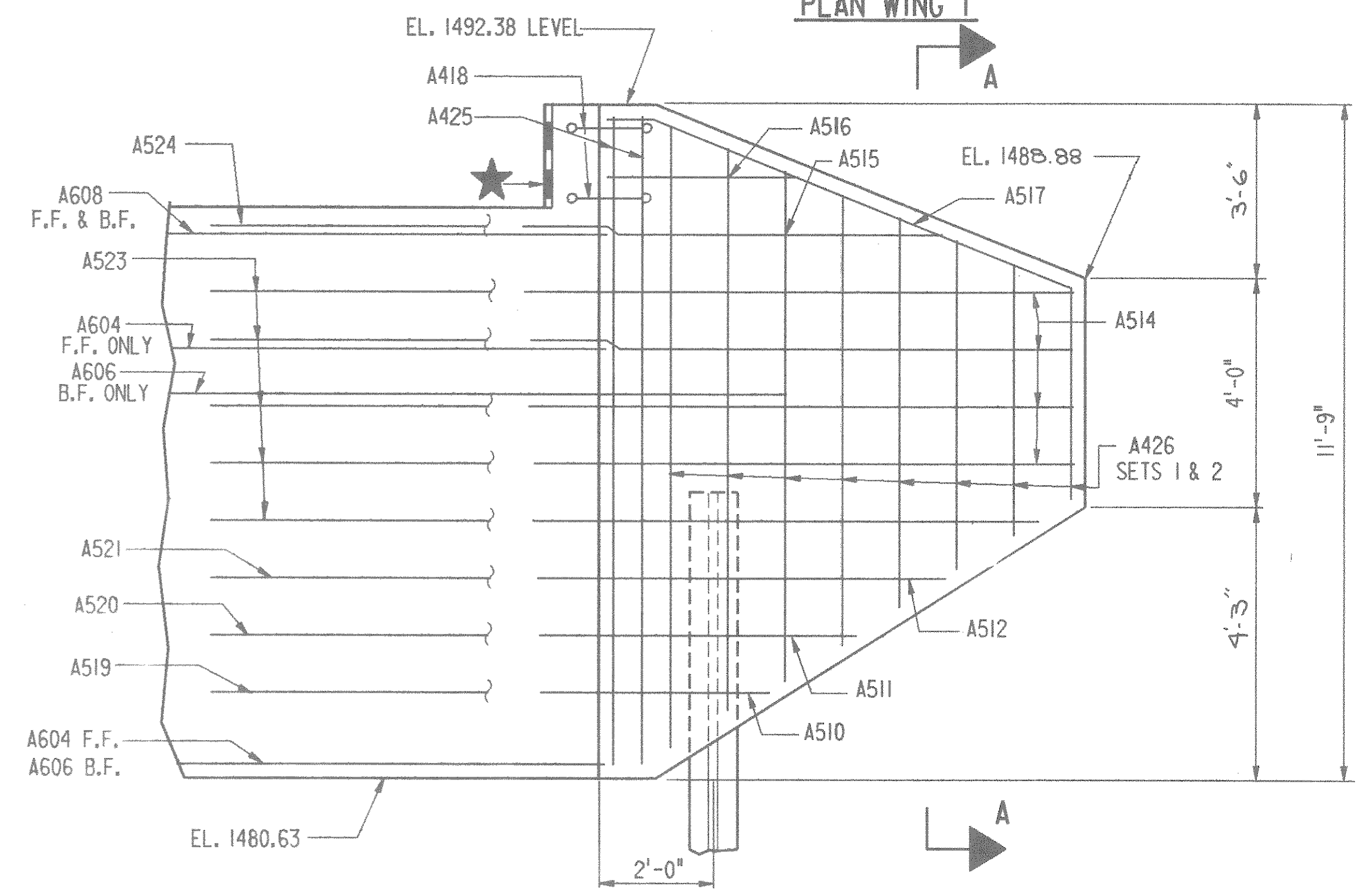
PLAN WING 1



ELEVATION WING 2



SECTION A

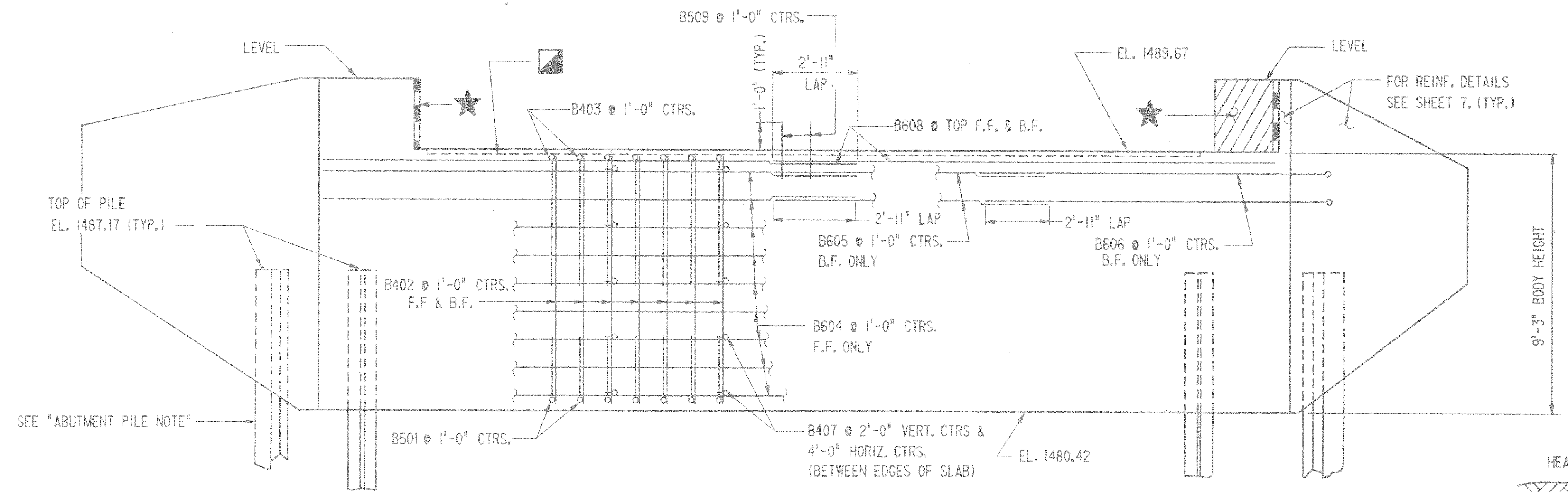


ELEVATION WING 1

PRF= WING202 [140001]
 FILE= WING512.FIN
 W.U.= 1/21/6000
 W.U.=
 DATE= 12-27-85

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS. 1981	Drawn By	T.A.W.
		Plans Checked	JRL
WINGS 1 & 2			SHEET 5 OF 12
X78471			

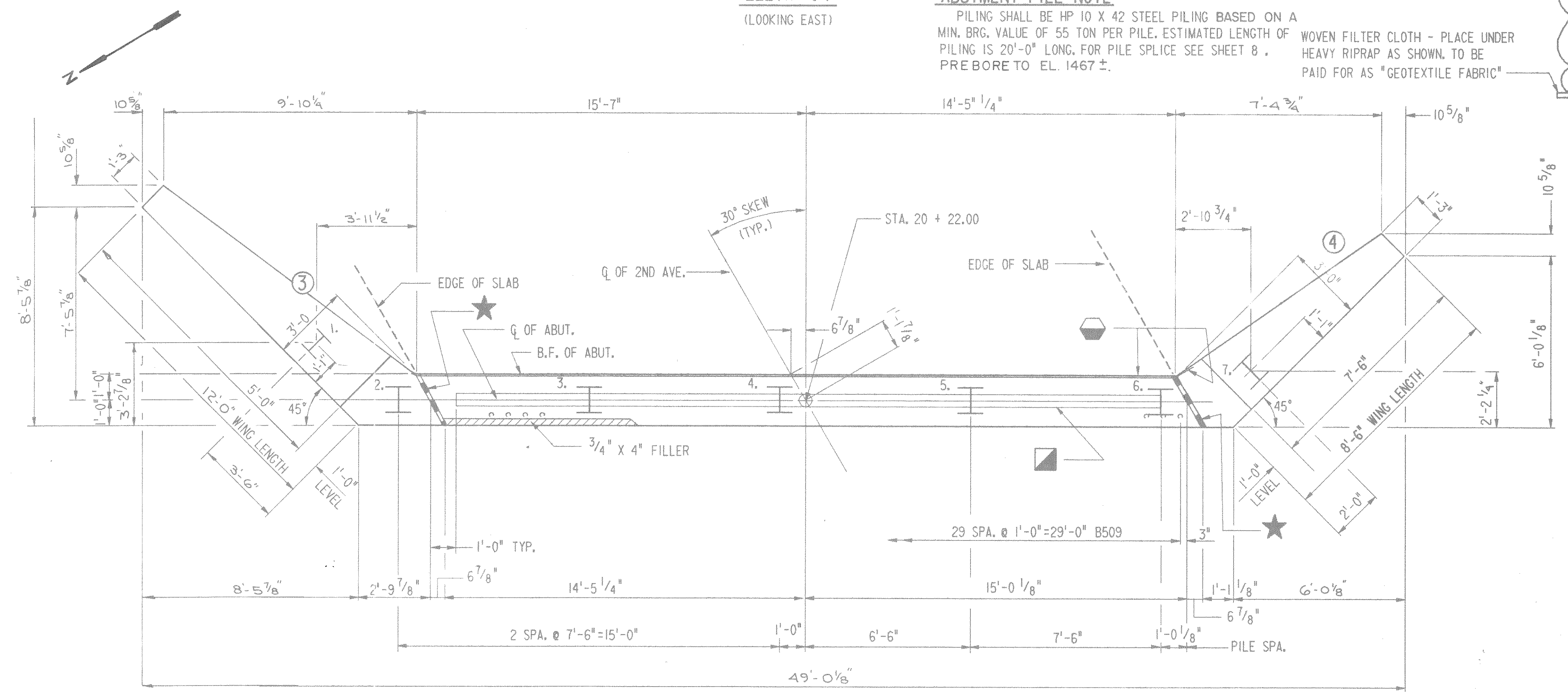
NOTE: B509 BARS MAY BE PLACED AFTER CONCRETE IS POURED, BUT BEFORE THE INITIAL SET HAS TAKEN PLACE.



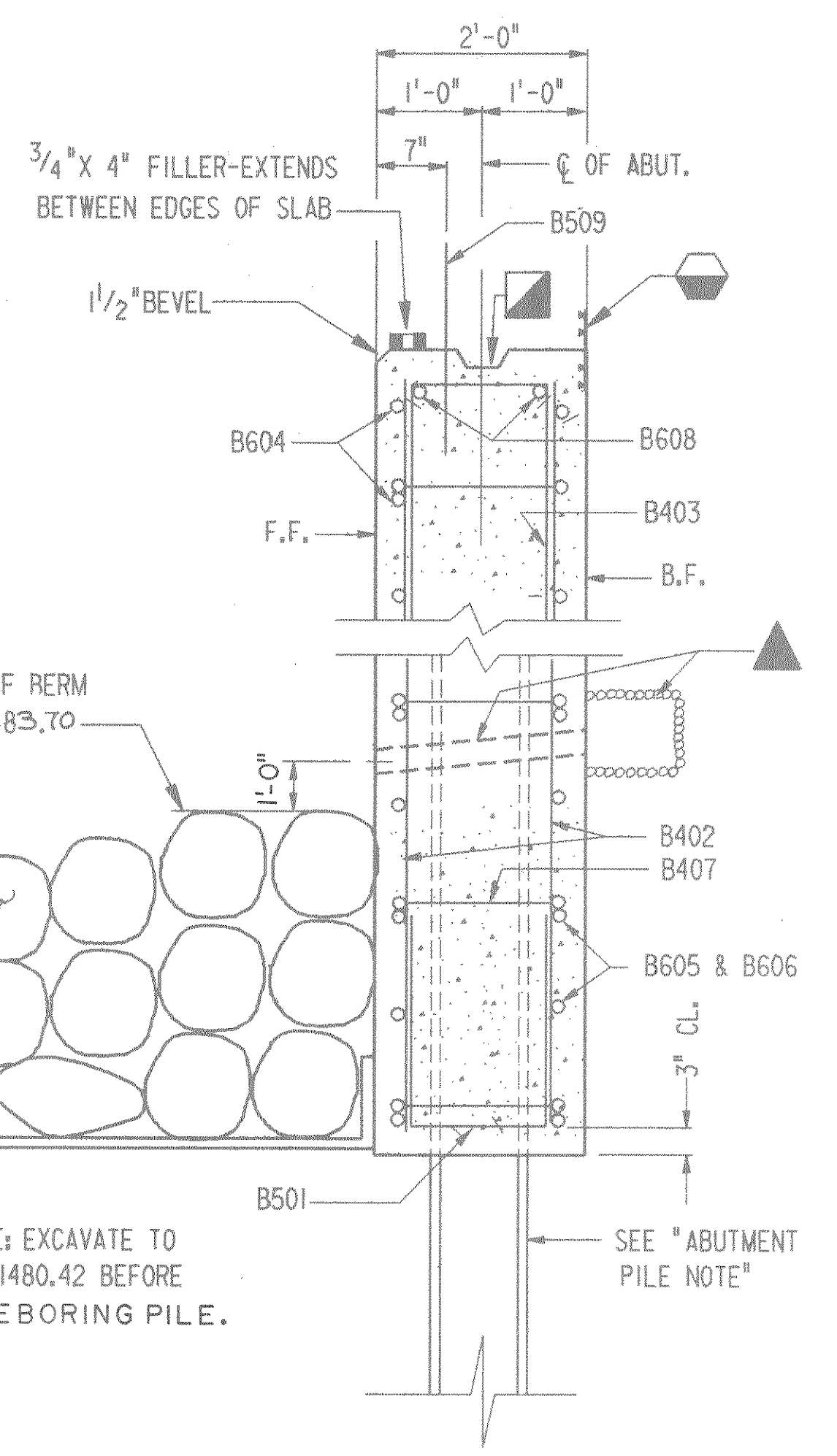
ELEVATION
(LOOKING EAST)

ABUTMENT PILE NOTE
PILING SHALL BE HP 10 X 42 STEEL PILING BASED ON A MIN. BRG. VALUE OF 55 TON PER PILE. ESTIMATED LENGTH OF PILING IS 20'-0" LONG. FOR PILE SPLICE SEE SHEET 8. PREBORE TO EL. 1467 ±.

WOVEN FILTER CLOTH - PLACE UNDER HEAVY RIPRAP AS SHOWN. TO BE PAID FOR AS "GEOTEXTILE FABRIC"



PLAN



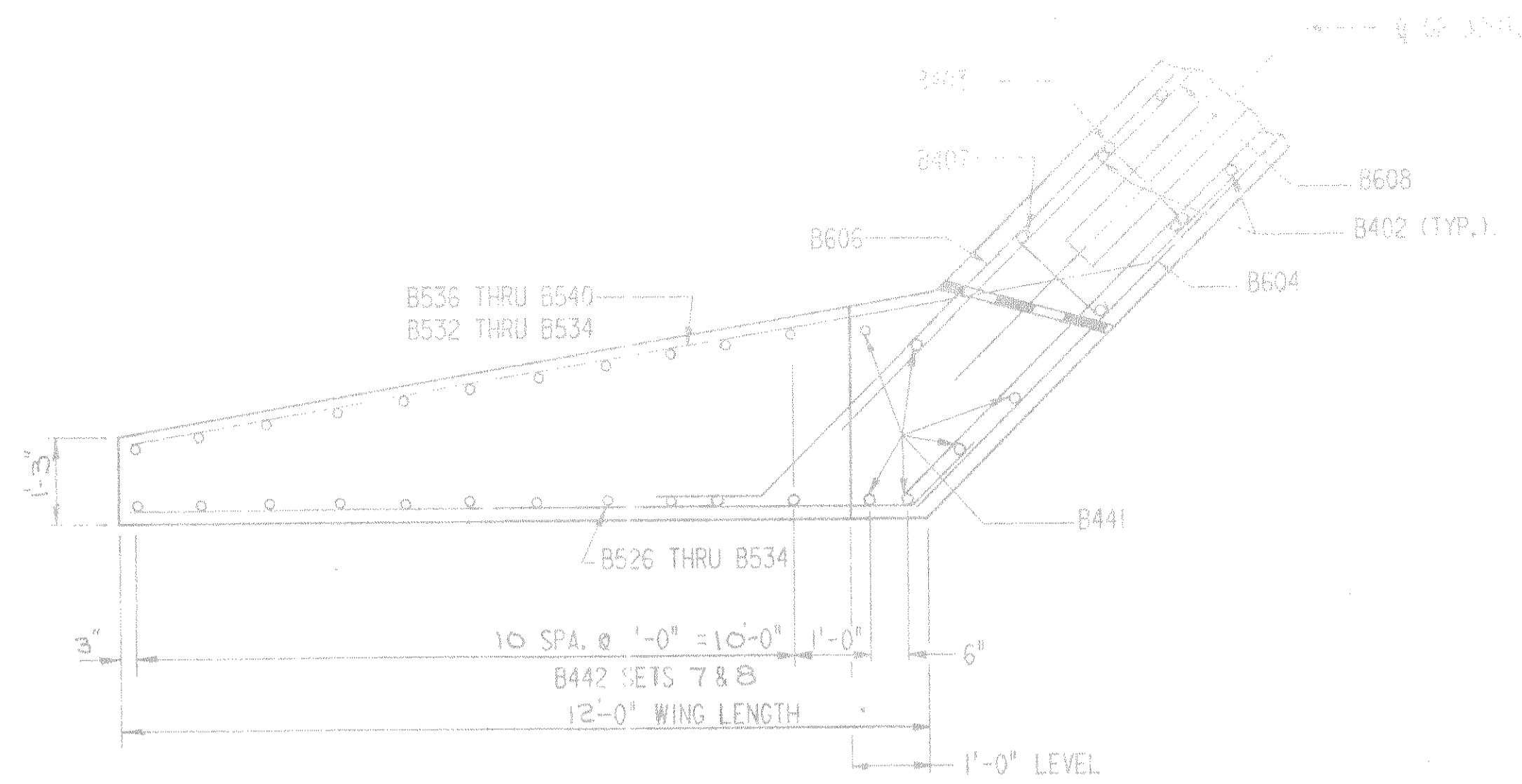
TYPICAL SECTION THRU BODY

NOTE: FOR SYMBOL ★, ◼ & ◾ DESCRIPTIONS SEE SHEET 8.

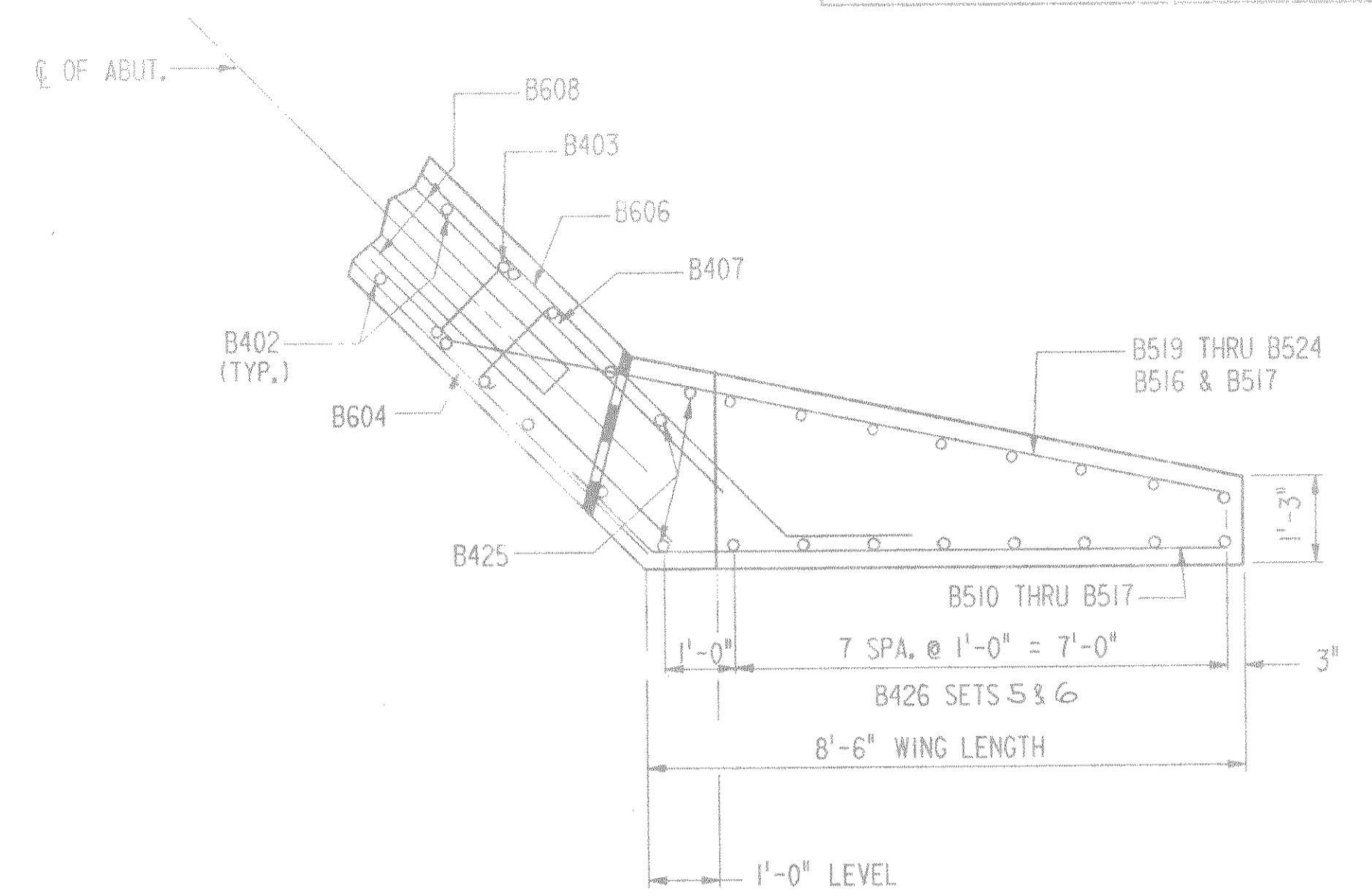
▲ - 2" DIA. WEEP HOLES AT 20'-0" CTRS. - USE FILTER CLOTH WITH SELECT GRANULAR MATERIAL AT EACH HOLE (ON B.F. 12" X 12" X 12" MIN.) COST INCIDENTAL TO "CONCRETE MASONRY, BRIDGES".

NOTE: DO NOT PLACE FILL ABOVE EL. 1482.4 ± UNTIL SUPERSTRUCTURE CONCRETE IS IN PLACE.

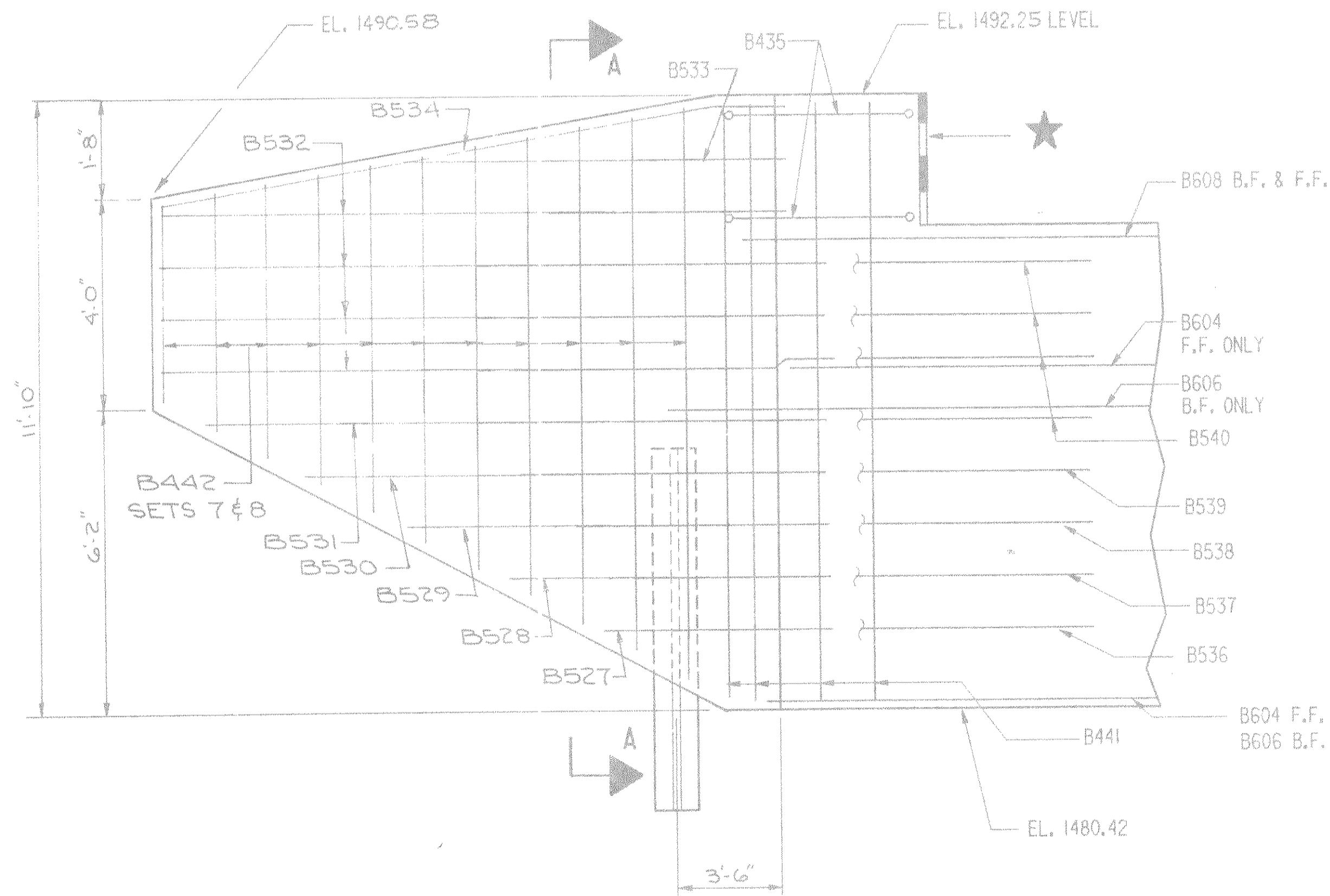
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS. 1981	Drawn By	T.A.W.
		Plans Checked	JRL
EAST ABUTMENT			SHEET 6 OF 12
			X78472



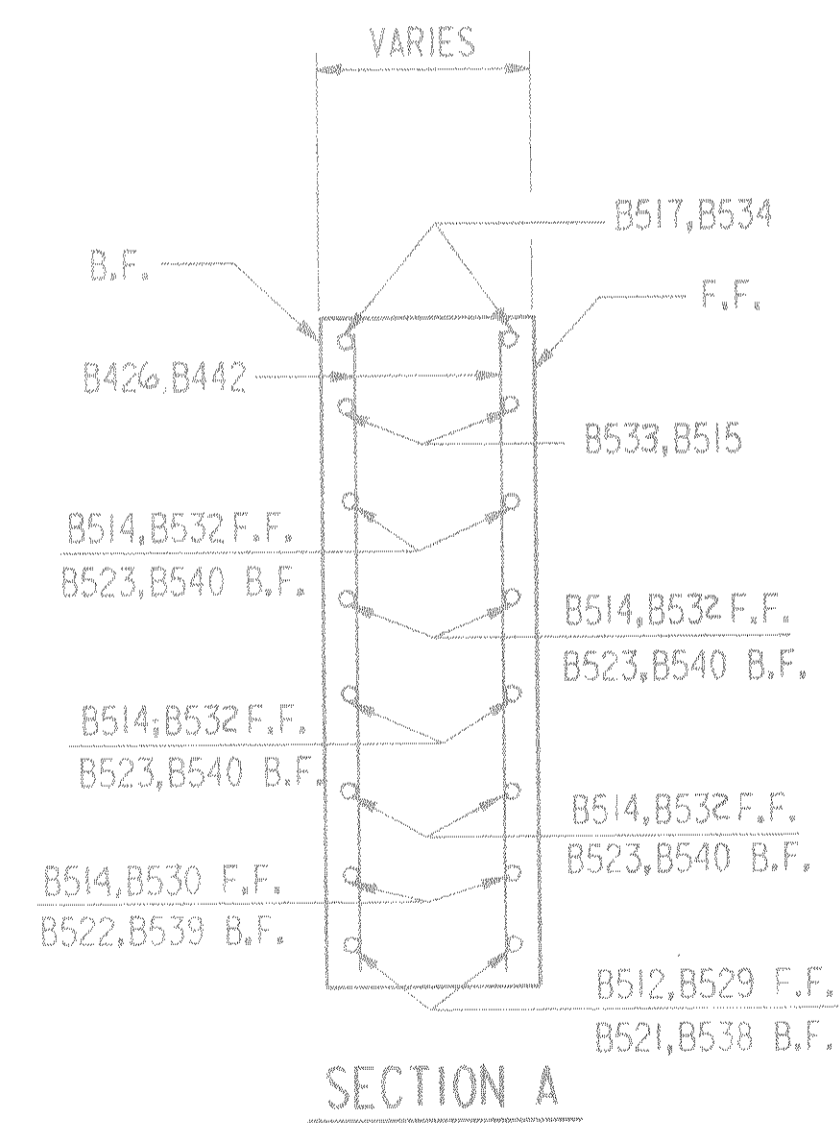
PLAN WING 3



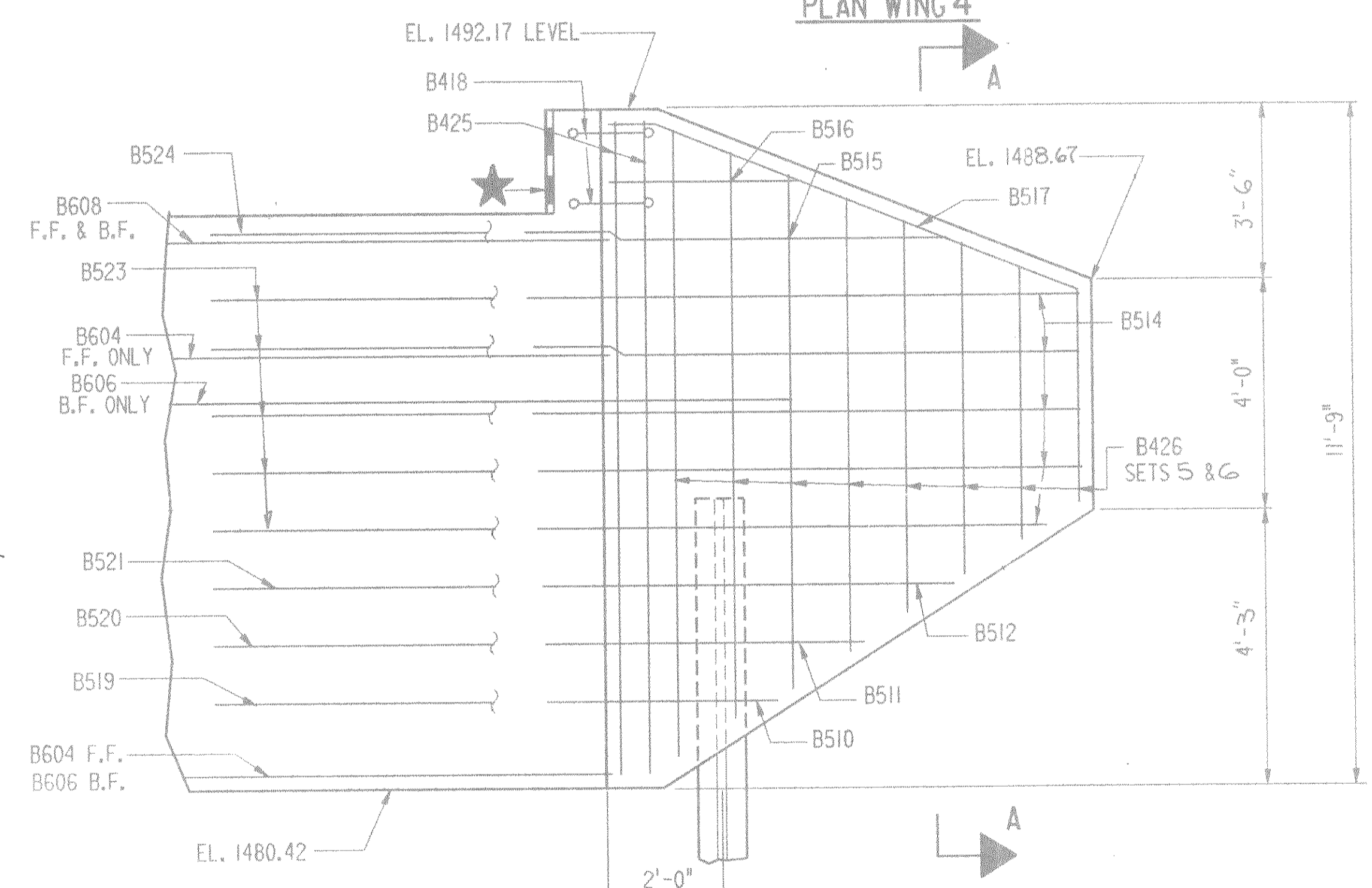
PLAN WING 4



ELEVATION WING 3



SECTION A



ELEVATION WING 4

DATE: 12-27-85

PROJ: WING3402 (140001)
 FILE: WING34.FIN
 W.U.: 11/21/8000
 W.U.:

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS. 1981	Drawn By	T.A.W.
		Plans Checked	JRL
WINGS 3 & 4			SHEET 7 OF 12
			X78473

BILL OF BARS (WEST ABUTMENT)

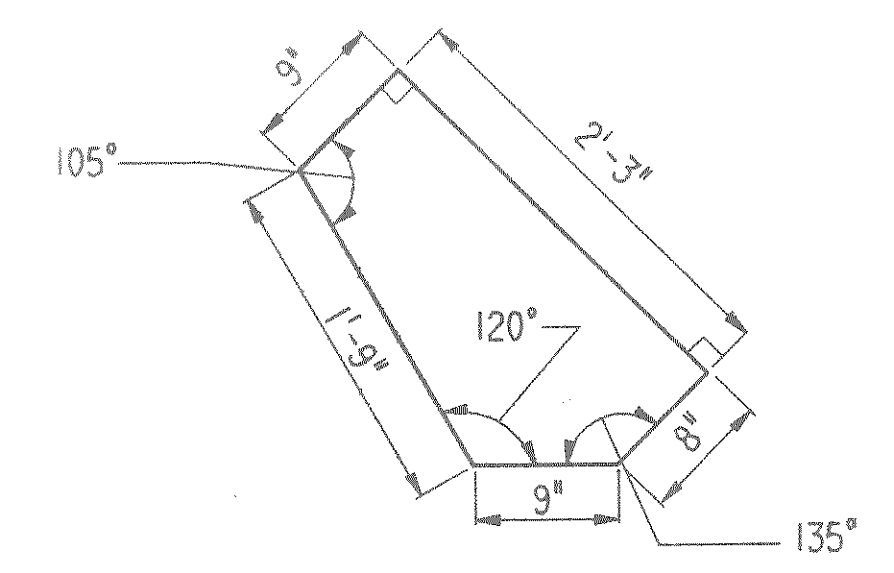
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

MARK	NO. REQ'D.	LENGTH	BENT	CUT. DIA.	LOCATION	TOTAL WEIGHT= 2810 LBS.
A501	33	5-3	X		BODY - BOTTOM	VERT.
A402	62	8-10			" - F.F. & B.F.	"
A403	30	8-0	X		" - TOP	"
A604	18	18-8			" - F.F.	HORIZ.
A605	9	23-3			" - B.F.	"
A606	18	11-6	X		" - B.F. @ ENDS	"
A407	40	2-4	X		" - TIE BARS	"
A608	4	18-9			" - TOP - F.F. & B.F.	"
A509	30	2-0			" - "	VERT.
A510	1	4-9	X		WING 1 - F.F.	HORIZ.
A511	1	6-6	X		" - "	"
A512	1	8-3	X		" - "	"
NOT USED						
A514	5	9-6	X		" - "	"
A515	1	6-2	X		" - "	"
A516	2	3-5			" - " & B.F.	"
A517	2	8-9	X		" - " & " - TOP	"
A418	2	6-5	X		" - TOP	"
A519	1	7-5	X		" - B.F.	"
A520	1	9-6	X		" - "	"
A521	1	11-3	X		" - "	"
NOT USED						
A523	5	12-10	X		" - "	"
A524	1	9-10	X		" - "	"
A425	3	11-4			" - F.F. & B.F.	VERT.
A426	8	14-7		X	" - " & "	"
A527	1	4-8	X		" 2 - F.F.	HORIZ.
A528	1	6-6	X		" - "	"
A529	1	8-6	X		" - "	"
A530	1	10-6	X		" - "	"
A531	1	12-4	X		" - "	"
A532	4	13-4	X		" - "	"
A533	2	7-0			" - " & B.F.	"
A534	2	11-9	X		" - " & " - TOP	"
A435	2	8-10	X		" - TOP	"
A536	1	8-6	X		" - B.F.	"
A537	1	10-2	X		" - "	"
A538	1	12-0	X		" - "	"
A539	1	14-0	X		" - "	"
A540	4	16-3	X		" - "	"
A441	6	11-5			" - F.F. & B.F.	VERT.
A442	11	14-7		X	" - " & "	"

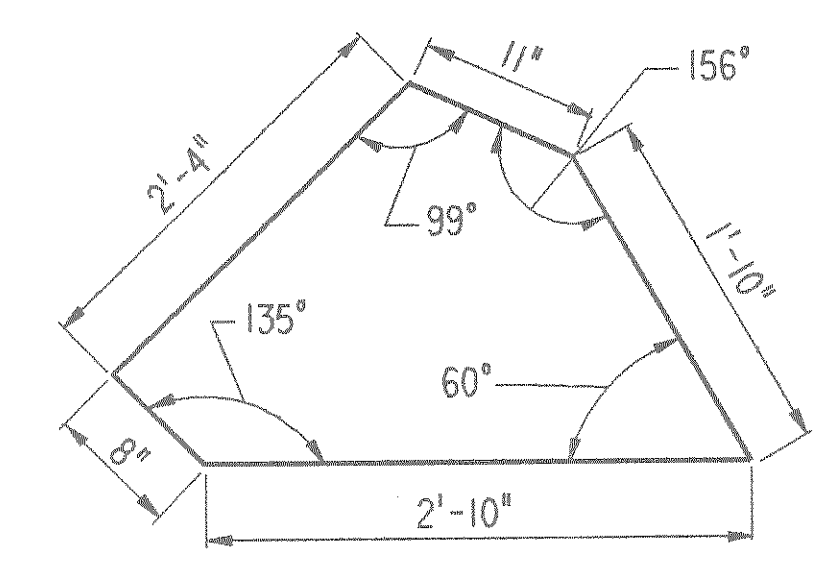
BILL OF BARS (EAST ABUTMENT)

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

MARK	NO. REQ'D.	LENGTH	BENT	CUT. DIA.	LOCATION	TOTAL WEIGHT= 2810 LBS.
B501	33	5-3	X		BODY - BOTTOM	VERT.
B402	62	8-10			" - F.F. & B.F.	"
B403	30	8-0	X		" - TOP	"
B604	18	18-8			" - F.F.	HORIZ.
B605	9	23-3			" - B.F.	"
B606	18	11-6	X		" - B.F. @ ENDS	"
B407	40	2-4	X		" - TIE BARS	"
B608	4	18-9			" - TOP - F.F. & B.F.	"
B509	30	2-0			" - "	VERT.
B510	1	4-9	X		WING 4 - F.F.	HORIZ.
B511	1	6-6	X		" - "	"
B512	1	8-3	X		" - "	"
NOT USED						
B514	5	9-6	X		" - "	"
B515	1	7-2	X		" - "	"
B516	2	3-5			" - " & B.F.	"
B517	2	8-9	X		" - " & " - TOP	"
B418	2	6-5	X		" - TOP	"
B519	1	7-5	X		" - B.F.	"
B520	1	9-6	X		" - "	"
B521	1	11-3	X		" - "	"
NOT USED						
B523	5	12-10	X		" - "	"
B524	1	9-10	X		" - "	"
B425	3	11-4			" - F.F. & B.F.	VERT.
B426	8	14-8		X	" - " & "	"
B527	1	4-10	X		" 3 - F.F.	HORIZ.
B528	1	6-9	X		" - "	"
B529	1	8-9	X		" - "	"
B530	1	10-8	X		" - "	"
B531	1	12-6	X		" - "	"
B532	4	13-4	X		" - " & B.F.	"
B533	2	7-0			" - " & "	"
B534	2	11-9	X		" - " & " - TOP	"
B435	2	8-10	X		" - TOP	"
B536	1	8-3	X		" - B.F.	"
B537	1	10-0	X		" - "	"
B538	1	12-0	X		" - "	"
B539	1	13-10	X		" - "	"
B540	4	16-3	X		" - "	"
B441	6	11-5			" - F.F. & B.F.	VERT.
B442	11	14-7		X	" - " & "	"



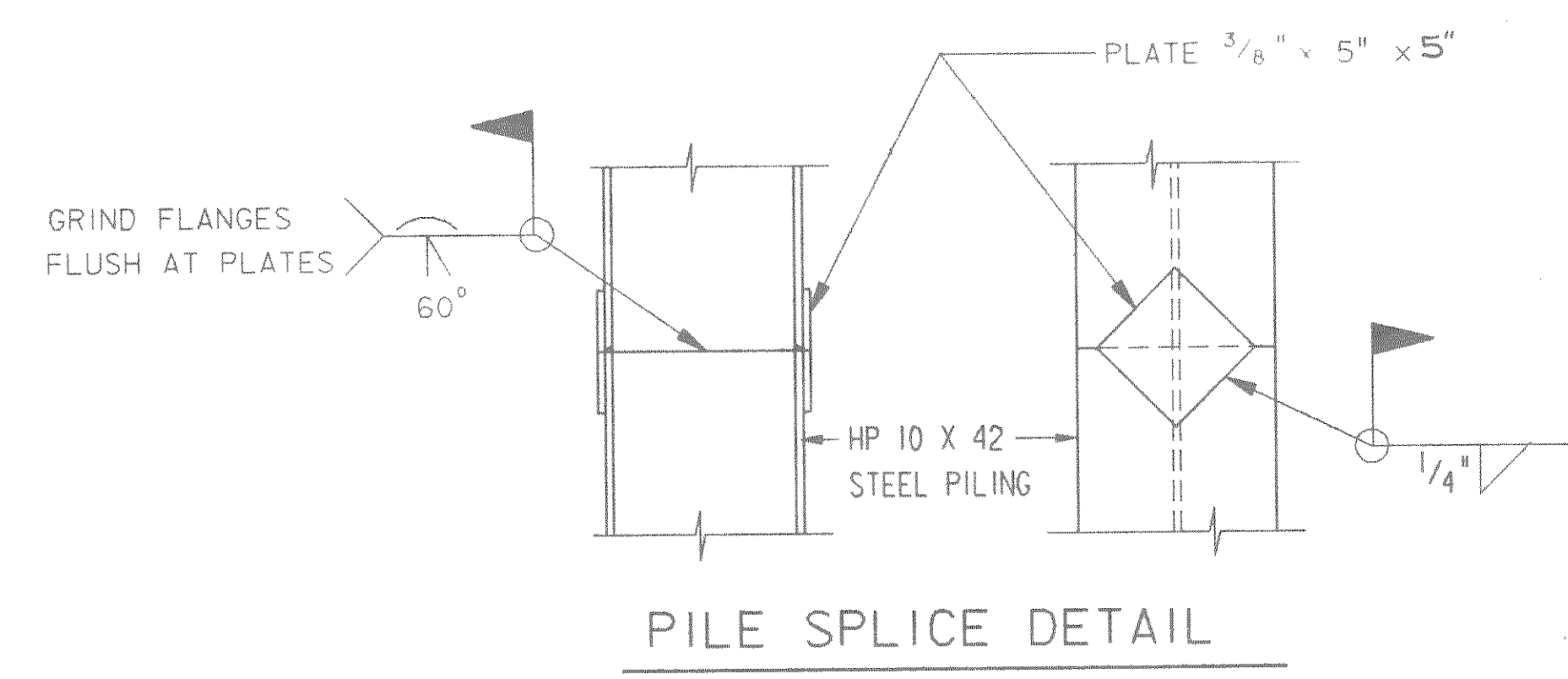
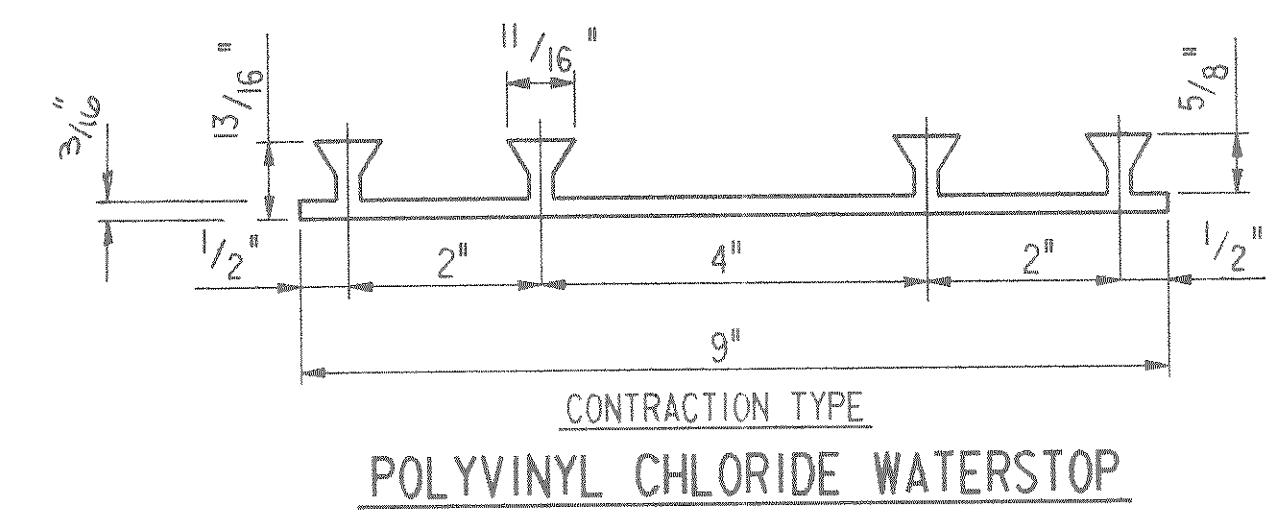
A418 & B418



A435 & B435

LEGEND

- ★ 1/2" FILLER - TO EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)
- ◻ POLYVINYL CHLORIDE WATERSTOP (P.C.W.) - TO EXTEND HORIZONTAL BETWEEN WINGS AND VERTICAL FROM TOP OF ABUTMENT BODY TO TOP OF WING. (HOLD FLUSH WITH FACE OF CONCRETE.) FOR DETAIL SEE THIS SHEET. P.C.W. SHALL BE BUTTSPliced, AT JUNCTIONS, BY USING A SPLICING IRON. PLACE SEALER, SIMILAR TO THE ONE DESCRIBED ABOVE, BETWEEN THE 1/2" FILLER AND THE P.C.W. EXTENDING TO WITHIN 3" FROM THE GUTTER LINE. SEAL ALL VERT. ENDS WITH A SIMILAR SEALER.
- ◻ KEYED CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2" X 6".



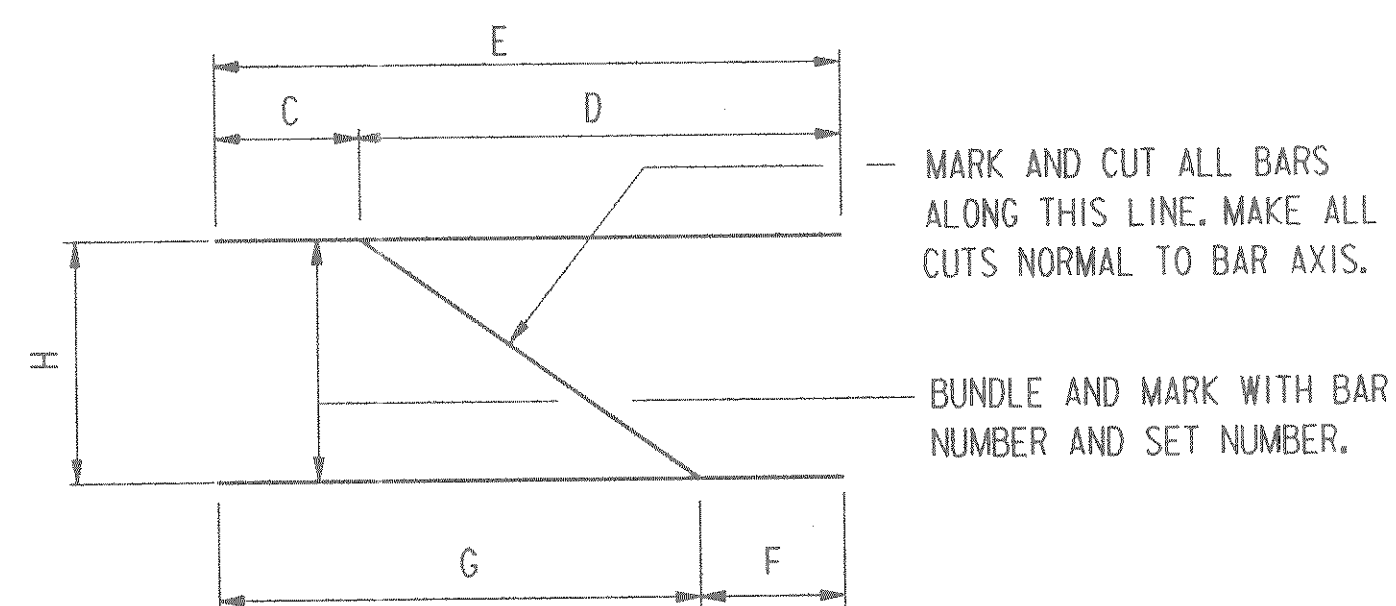
SEE SHEET 9 FOR CUTTING DIAGRAM AND BAR BENDING DETAIL.

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS. 1981	Drawn By	T.A.W.
		Plans Checked	JRL
ABUTMENT DETAILS			SHEET 8 OF 12
X78474			

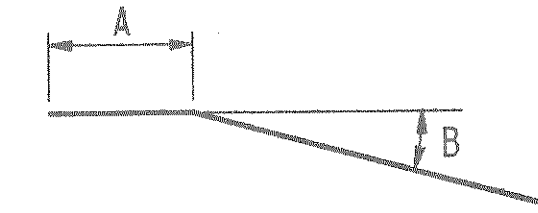
DATE= 12-15-85
 PRF= ABUTDET01 (140001)
 FILE= BILLBAR.FIN
 W.U.=
 W.U.=

MARK		C	D	E	F	G	H	SETS REQ'D.
A426	SET 1	3-9		14-7		10-10	8	1 SET 1
	SET 2		10-10		3-9			1 SET 2
A442	SET 3	3-9		14-7		10-10	11	1 SET 3
	SET 4		10-10		3-9			1 SET 4
B426	SET 5	3-9		14-8		10-11	8	1 SET 5
	SET 6		10-11		3-9			1 SET 6
B442	SET 7	3-9		14-7		10-10	11	1 SET 7
	SET 8		10-10		3-9			1 SET 8

NOTE: "H" IS THE NUMBER OF BARS IN CUTTING DIAGRAM BEFORE THE CUT.

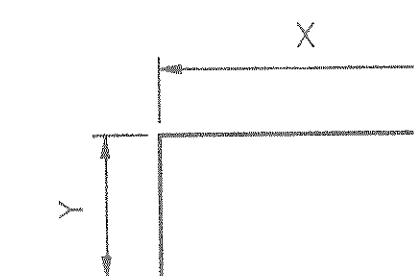


CUTTING DIAGRAM



MARK	A	ANGLE B
A606	1-6	45° - 00'
A510	1-6	45° - 00'
A511	1-6	45° - 00'
A512	1-6	45° - 00'
A514	1-6	45° - 00'
A515	1-6	45° - 00'
A517	8-0	24° - 00'
A519	1-6	31° - 00'
A520	1-6	31° - 00'
A521	1-6	31° - 00'
A523	1-6	31° - 00'
A524	1-6	31° - 00'
A527	1-6	45° - 00'
A528	1-6	45° - 00'
A529	1-6	45° - 00'
A530	1-6	45° - 00'
A531	1-6	45° - 00'
A534	11-0	31° - 00'
A536	1-6	36° - 00'
A537	1-6	36° - 00'
A538	1-6	36° - 00'
A539	1-6	36° - 00'
A540	1-6	36° - 00'
A532	1-6	45° - 00'

MARK	A	ANGLE B
B606	1-6	45° - 00'
B510	1-6	45° - 00'
B511	1-6	45° - 00'
B512	1-6	45° - 00'
B514	1-6	45° - 00'
B515	1-6	45° - 00'
B517	8-0	24° - 00'
B519	1-6	31° - 00'
B520	1-6	31° - 00'
B521	1-6	31° - 00'
B523	1-6	31° - 00'
B524	1-6	31° - 00'
B527	1-6	45° - 00'
B528	1-6	45° - 00'
B529	1-6	45° - 00'
B530	1-6	45° - 00'
B531	1-6	45° - 00'
B534	11-0	31° - 00'
B536	1-6	36° - 00'
B537	1-6	36° - 00'
B538	1-6	36° - 00'
B539	1-6	36° - 00'
B540	1-6	36° - 00'
B532	1-6	45° - 00'

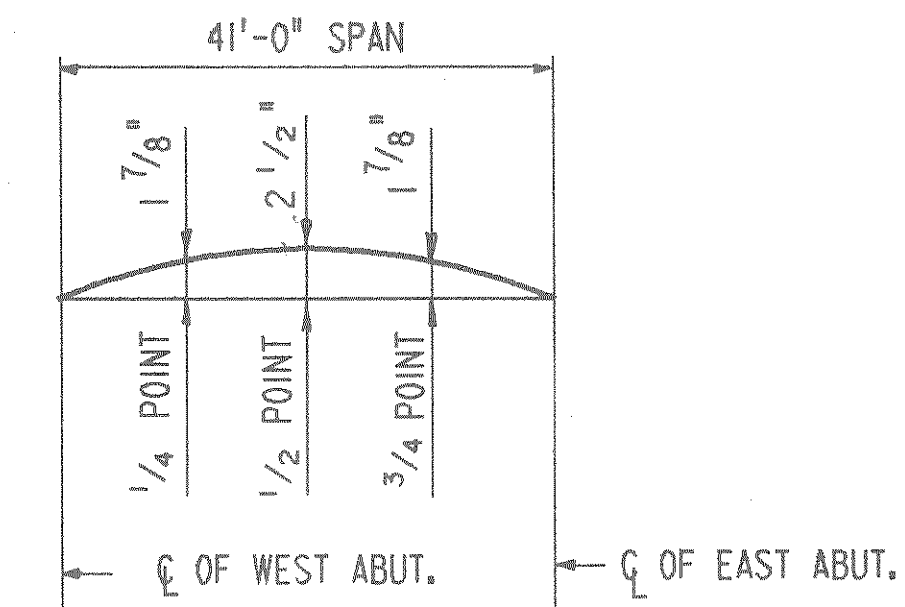
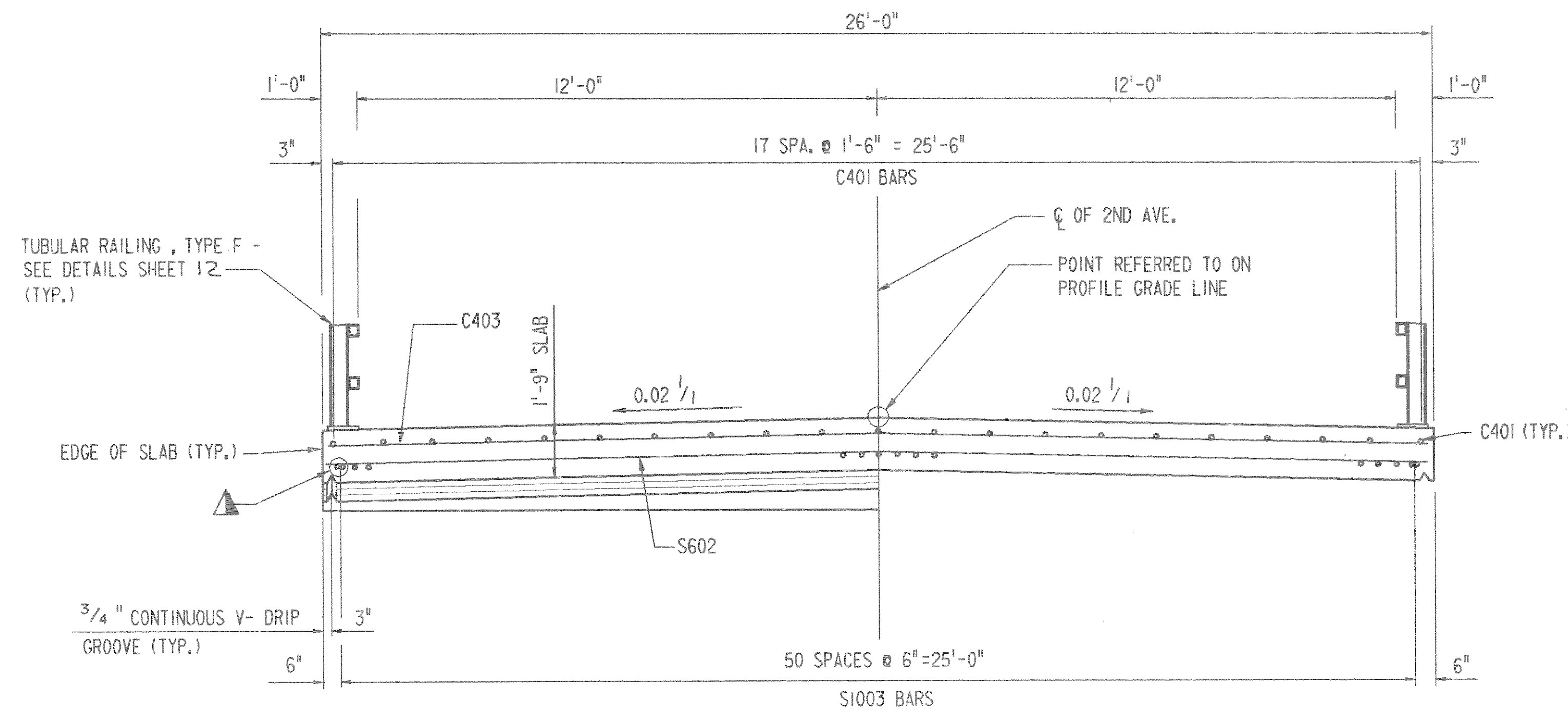


MARK	X	Y
A501	1-6	2-0
A403	1-6	3-4
A407	1-8	0-5
B501	1-6	2-0
B403	1-6	3-4
B407	1-8	0-5

DATE= 12-27-85

PRF= ABUTDET02 [140001]
 FILE= BILLBAR2.FIN
 W.U.= 1128000
 W.U.=

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS. 1981	Drawn By	T.A.W.
		Plans Checked	JRL
ABUTMENT DETAILS			SHEET 9 OF 12
			X78475



CAMBER DIAGRAM

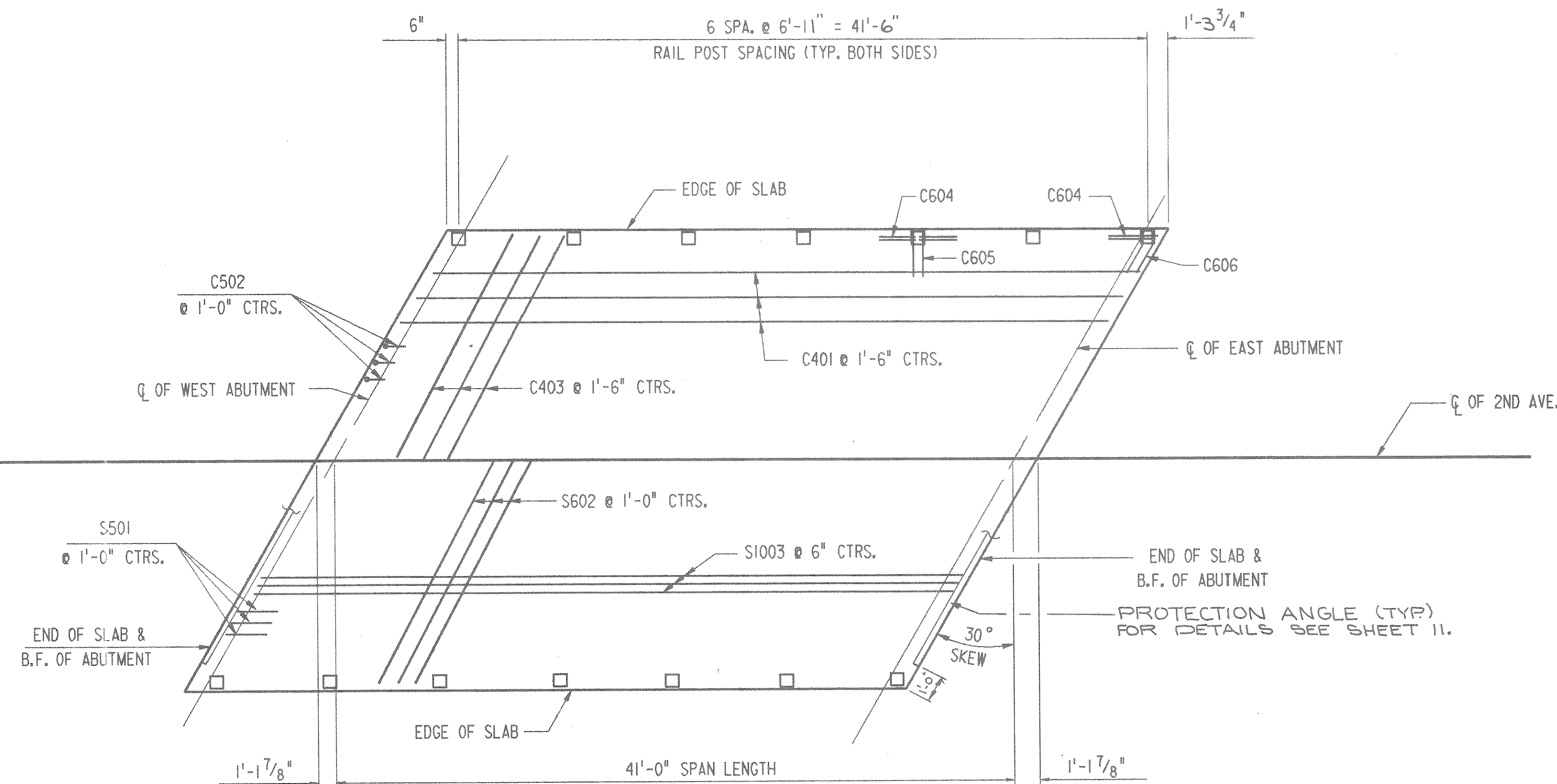
NOTE: ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM, ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION AND FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEADLOAD DEFLECTION ONLY EQUALS APPROXIMATELY 1/3 OF CAMBER VALUES SHOWN.

CROSS SECTION THRU ROADWAY

(LOOKING EAST)

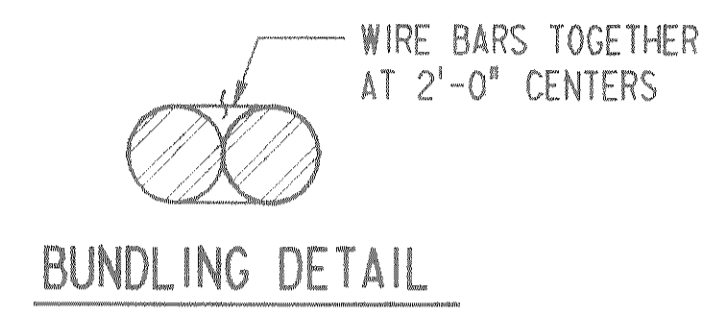
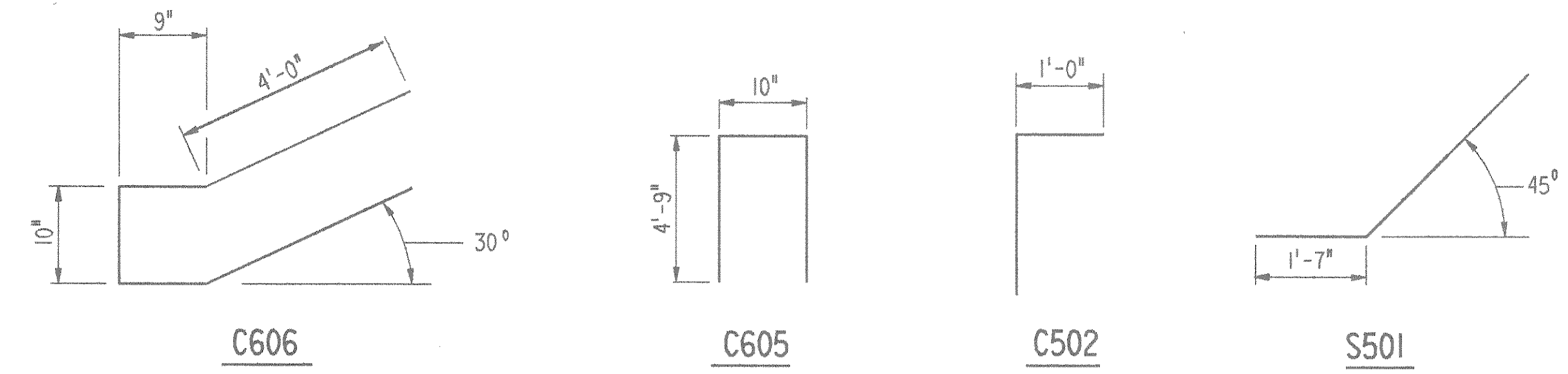
▲ BUNDLE EXTERIOR S1003 BARS AS SHOWN, FOR BUNDLING DETAIL SEE SHEET 11. (TYP. @ BOTH EDGES OF SLAB)



PLAN

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS.1981	Drawn By	T.A.W.
		Plans Checked	JRL
SUPERSTRUCTURE			SHEET 10 OF 12
			X78476

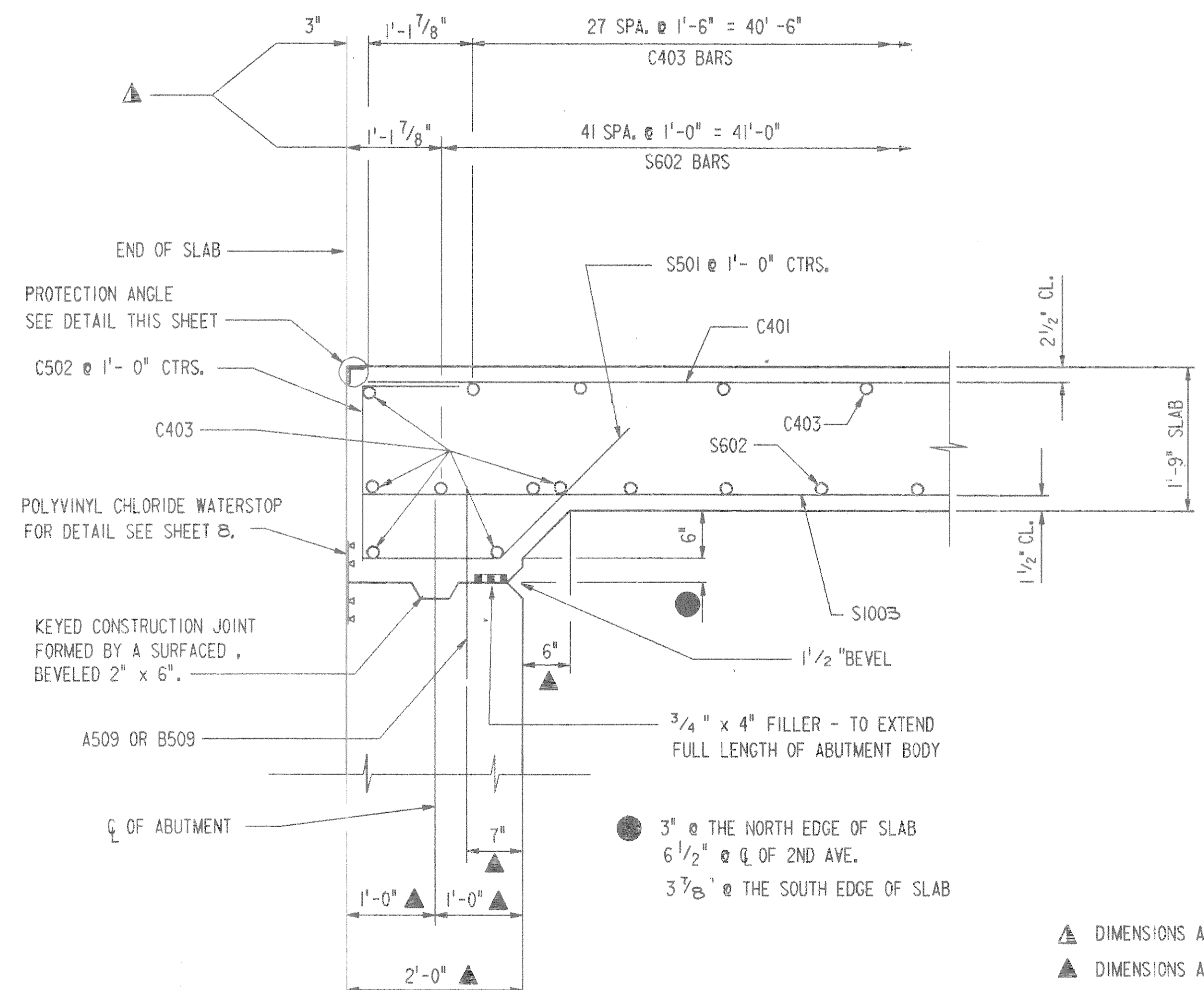




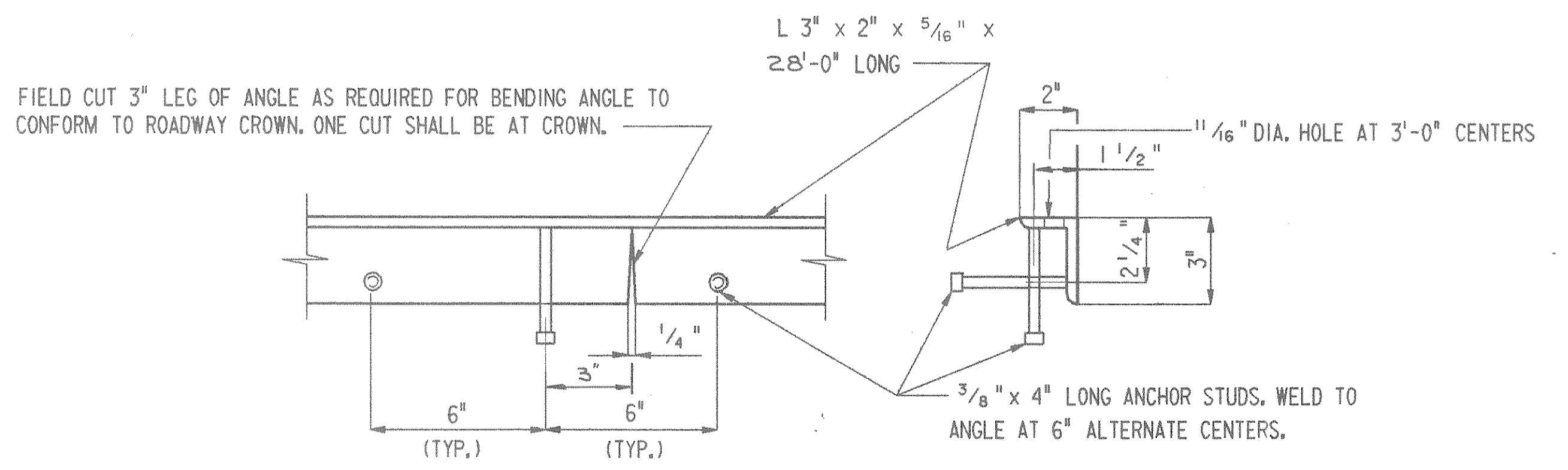
BILL OF BARS

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

MARK	NO. REQ'D.	LENGTH	BENT	CUT. DIA.	LOCATION	
NON-COATED BARS						TOTAL WEIGHT= 11860 LBS.
S501	52	3-7	X		DIAPH. @ ABUTMENT	VERT.
S602	42	29-8			SLAB - BOTTOM	TRANS.
S1003	53	42-11			SLAB - BOTTOM	LONGIT.
COATED BARS						TOTAL WEIGHT= 1820 LBS.
C401	18	42-11			SLAB - TOP	LONGIT.
C502	52	3-2	X		DIAPH. @ ABUTMENT	VERT.
C403	38	29-8			SLAB - TOP	TRANS.
C604	28	4-0			SLAB - 2 PER RAIL POST	LONGIT.
C605	12	10-0	X		SLAB - 1 PER RAIL POST	TRANS.
C606	2	10-0	X		SLAB - 1 PER RAIL POST @ WINGS 2 & 3 ONLY	TRANS.



NOTE: 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



PROTECTION ANGLE DETAIL

NOTE: ANGLE AND STUDS SHALL BE PAID FOR AS "STRUCTURAL CARBON STEEL". NO PAINT REQUIRED.

▲ DIMENSIONS ARE GIVEN PARALLEL TO THE CL. OF 2ND AVE.
▲ DIMENSIONS ARE GIVEN NORMAL TO CL. OF THE SUBSTRUCTURE UNITS.

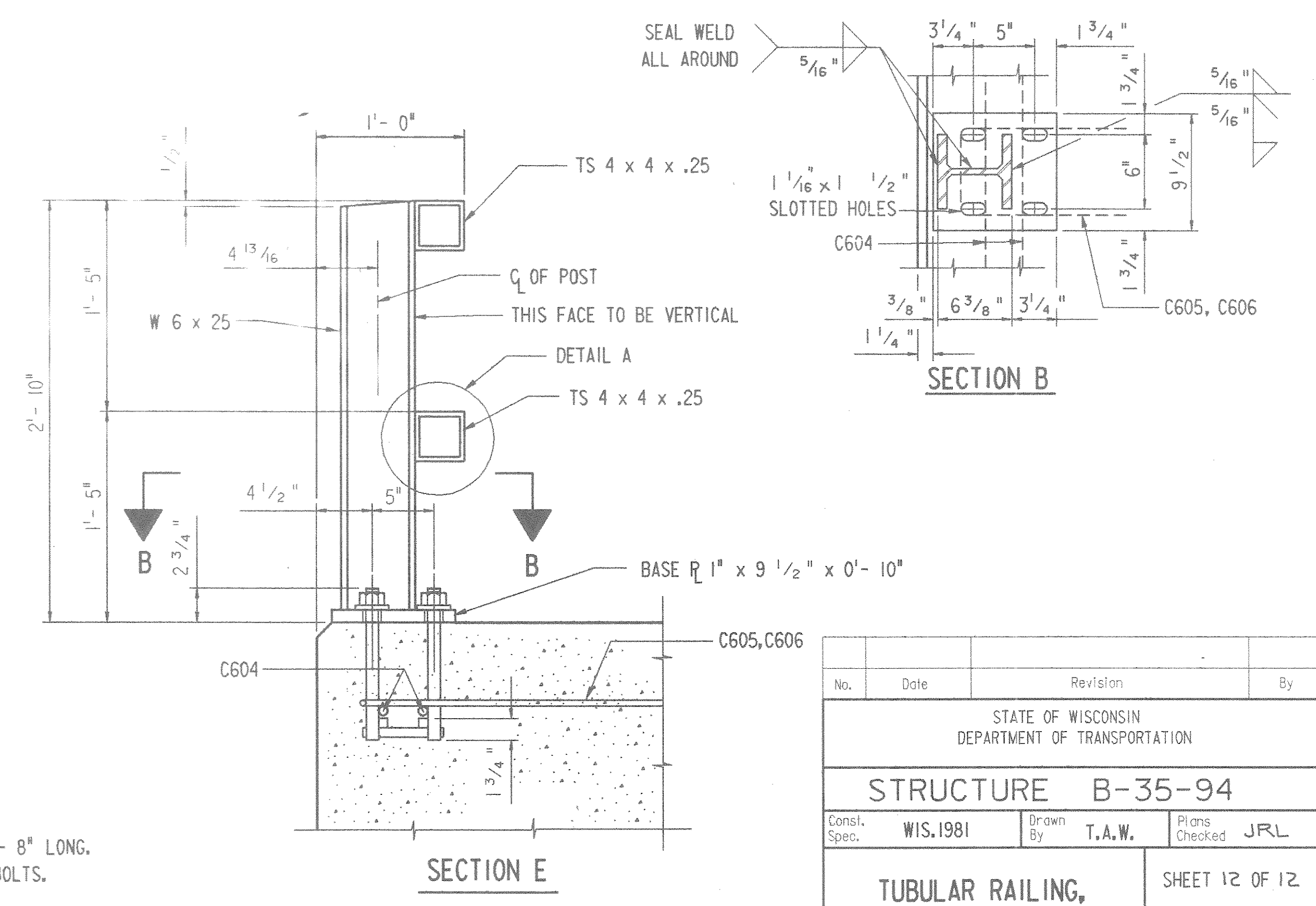
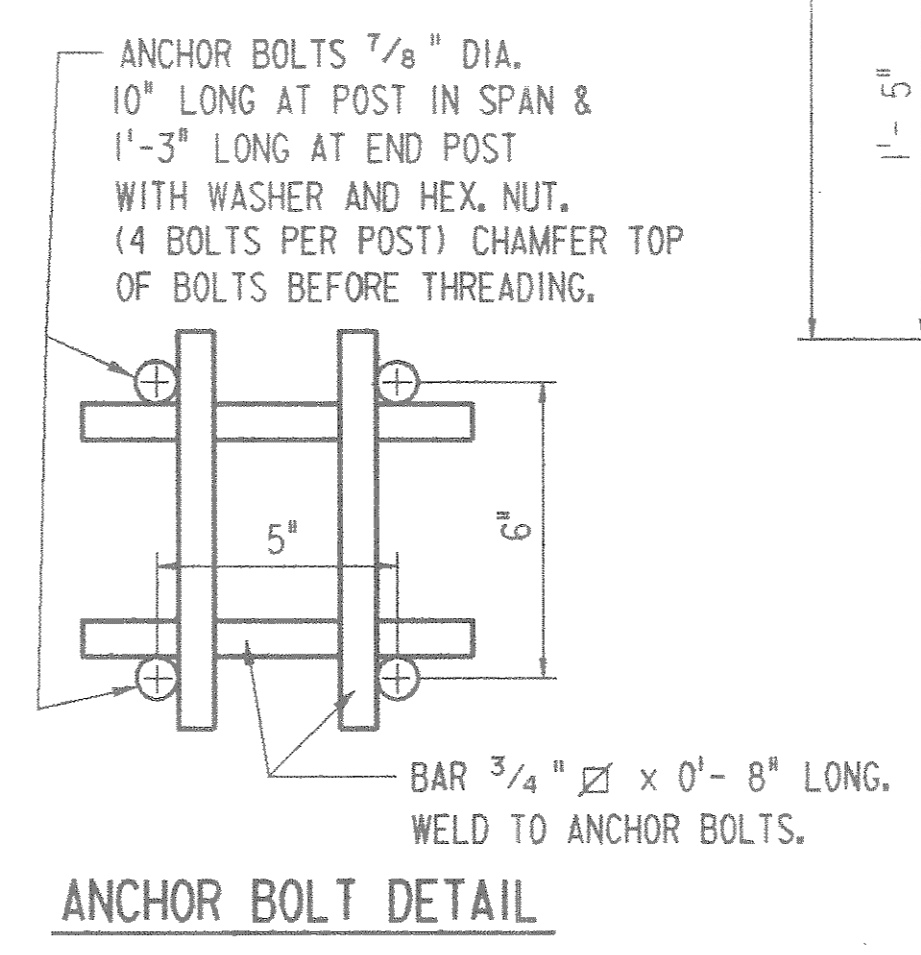
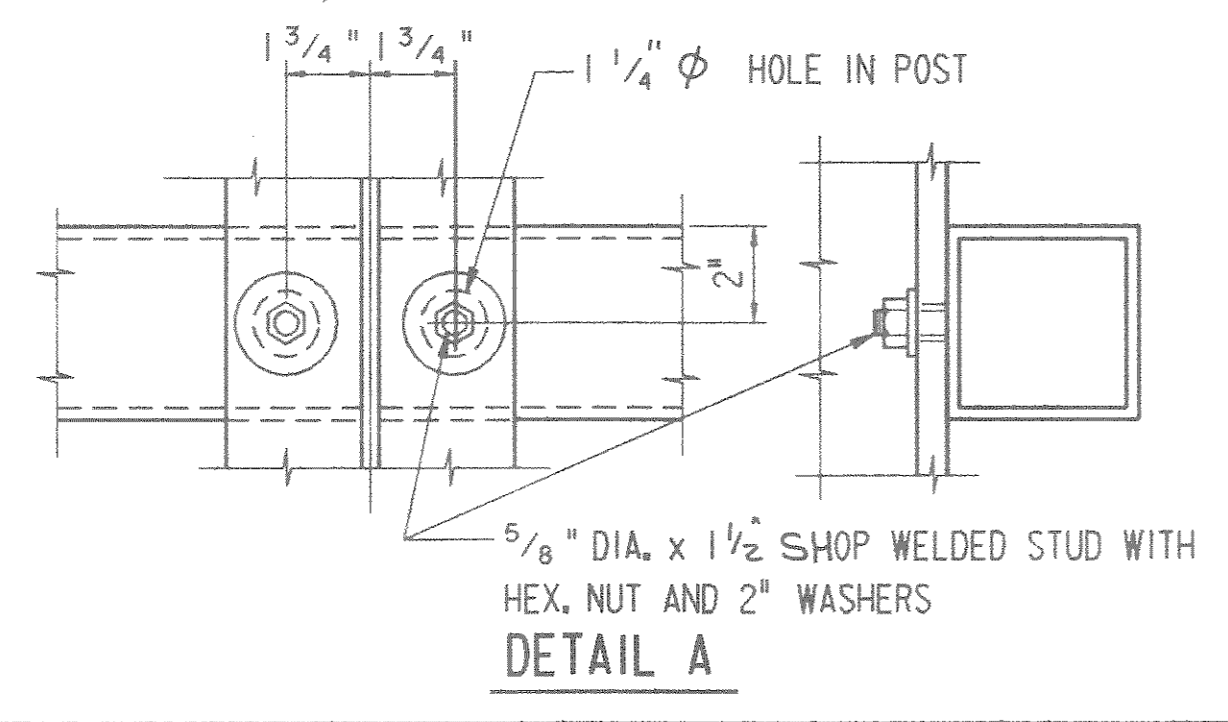
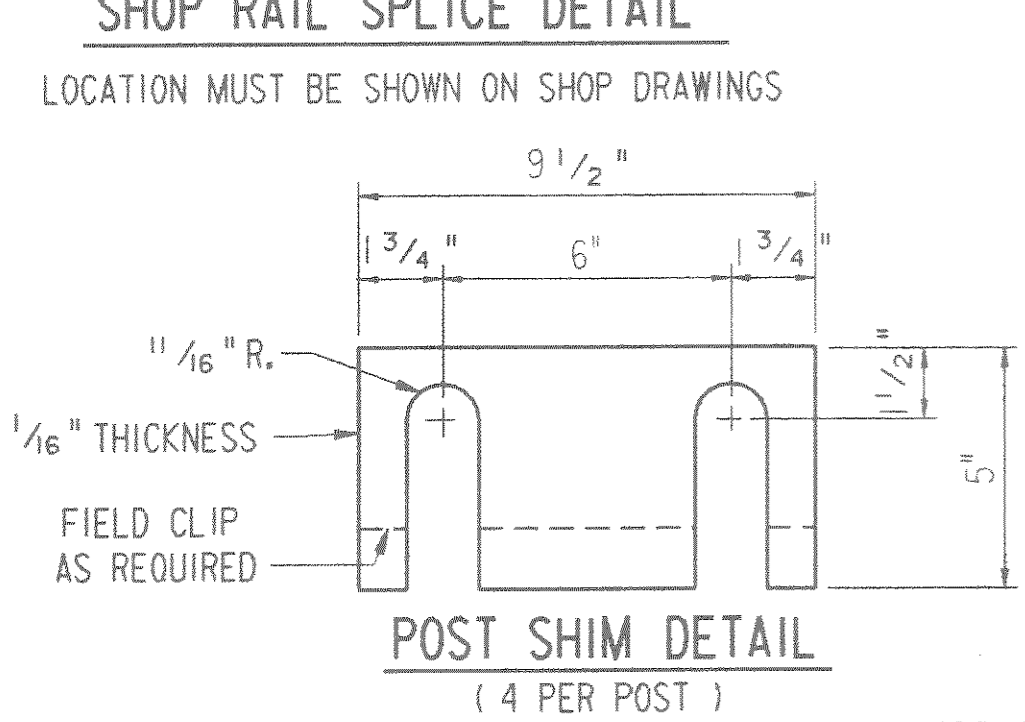
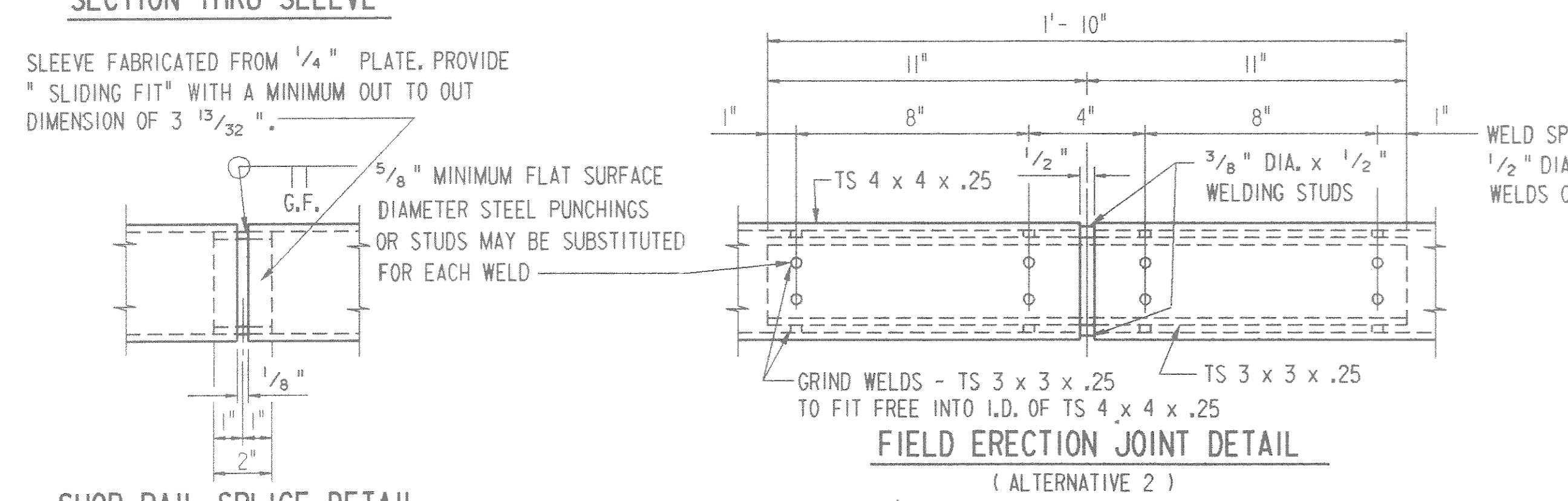
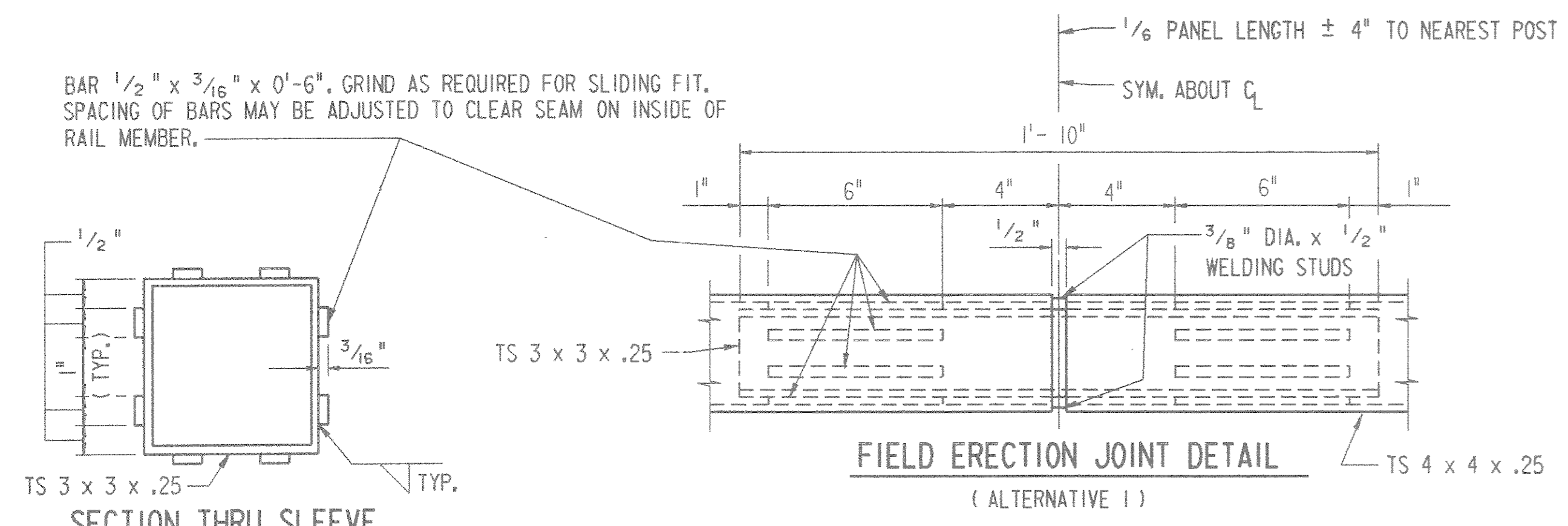
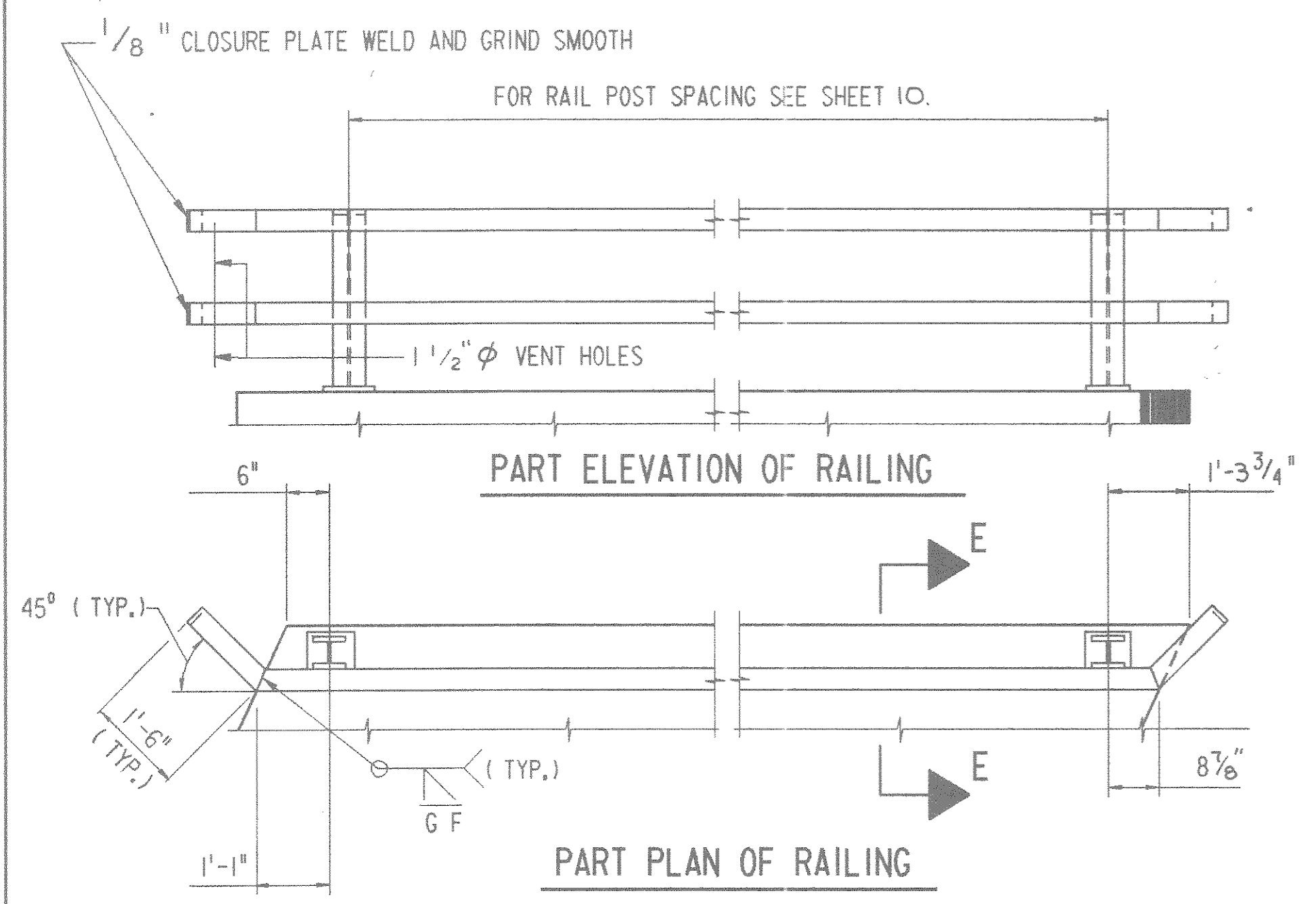
PART LONGITUDINAL SECTION

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS.1981	Drawn By	T.A.W.
		Plans Checked	JRL
SUPERSTRUCTURE			SHEET 11 OF 12
			X78477

PRF= SUPER02
 FILE= SUPER.DET
 W.U.= 112132.000 (SECTION)
 DATE= 12-27-85
 C1400011

GENERAL NOTES

- BID ITEM SHALL BE "TUBULAR RAILING, TYPE F".
- POST BASE PLATES 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 CUTS.
- RAILING SHALL BE 4 x 4 x .25 STRUCTURAL TUBING CONFORMING TO A.S.T.M. DESIGNATION A36.
- ANCHOR BOLTS SHALL BE 7/8" DIA. NOMINAL CONFORMING TO A.S.T.M. A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION (MIN. YIELD OF 92 K.S.I. AND ELONGATION OF 14%) WITH 3" THREAD AND HIGH STRENGTH NUTS AND WASHERS (A325).
- CAULK EXPOSED OPENINGS BETWEEN SHIMS.
- POSTS, BASE PLATES AND SHIMS SHALL BE MADE FROM MATERIAL CONFORMING TO A.S.T.M. DESIGNATION A36. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE NORMAL TO GRADE LINE.
- PLACE ANCHOR BOLTS NORMAL TO BASE PLATE.
- ALL MEMBERS, INCLUDING UPPER 4" OF ANCHOR BOLTS, SHALL BE GALVANIZED AFTER FABRICATION.
- RAILS MAY BE WELDED TO POSTS.
- FILL POST ANCHOR BOLT HOLES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.
- RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.
- STEEL SHIMS SHALL BE USED UNDER POSTS WHERE REQUIRED FOR ALIGNMENT.
- FIELD ERECTION JOINTS SHALL BE ALTERNATIVE 1 OR ALTERNATIVE 2.
- PRIOR TO GALVANIZING, ALL STEEL RAILING SHALL BE GIVEN A NO. 6 COMMERCIAL BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.



No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-94			
Const. Spec.	WIS.1981	Drawn By	T.A.W.
		Plans Checked	JRL
TUBULAR RAILING, TYPE F			SHEET 12 OF 12 X78478

DATE= 12-27-85
 E 1400011
 PRF= FRALO2
 FILE= FRAILING.FIN
 W.U.=
 W.U.=