

PROJECT	DESIGNATION
NH-017-9()	9900540
CONTRACT	BRIDGE FILE
B 25754	63-83-4323C

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
63-83-4323C	CONTINUOUS STEEL BEAM	11582, 22860, 3 @ 27432, 22860, 11582 SKEW 30'00" RT.	BROUILLETTS CREEK	
SHEET NO.	SUBJECT			
1	TITLE & INDEX SHEET			
2	TRAFFIC MAINTENANCE DETAILS			
3	GENERAL PLAN			
4	STRUCTURE SECTIONS			
5-6	END BENT DETAILS			
7	MISCELLANEOUS DETAILS & PIER REMOVAL DETAILS			
8-13	PIER DETAILS			
14	FRAMING PLAN			
15-16	STRUCTURAL STEEL DETAILS			
17-19	BRIDGE FLOOR DETAILS			
20	CONCRETE RAILING DETAILS			
21	R.C. APPROACH SLAB DETAILS			
22	BRIDGE SUMMARY			

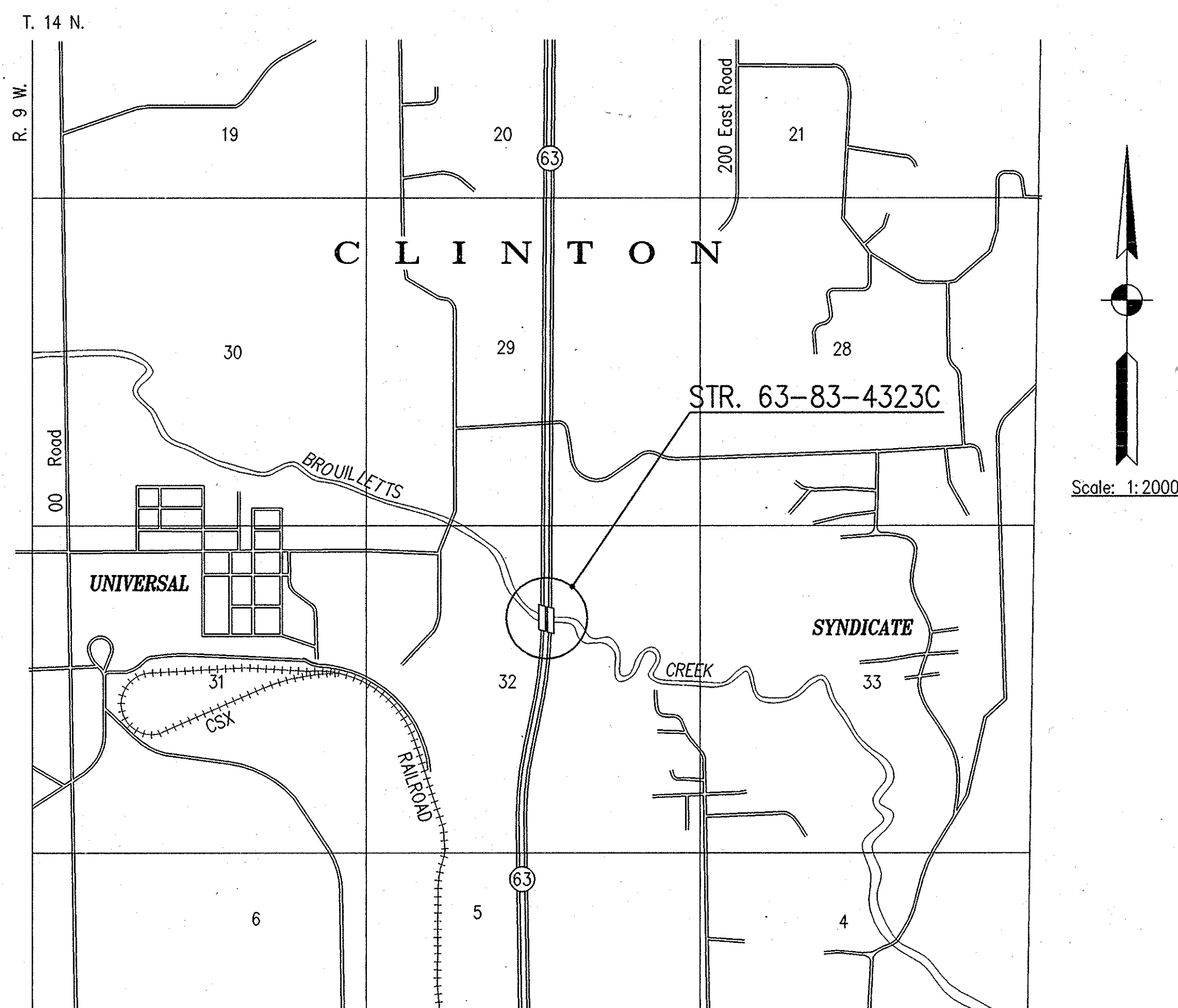
INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS FOR SPANS OVER 6.1 METERS STATE ROAD 63 PROJECT NO. ST/9999(099) P.E. R/W CONST.

NH-017-9()

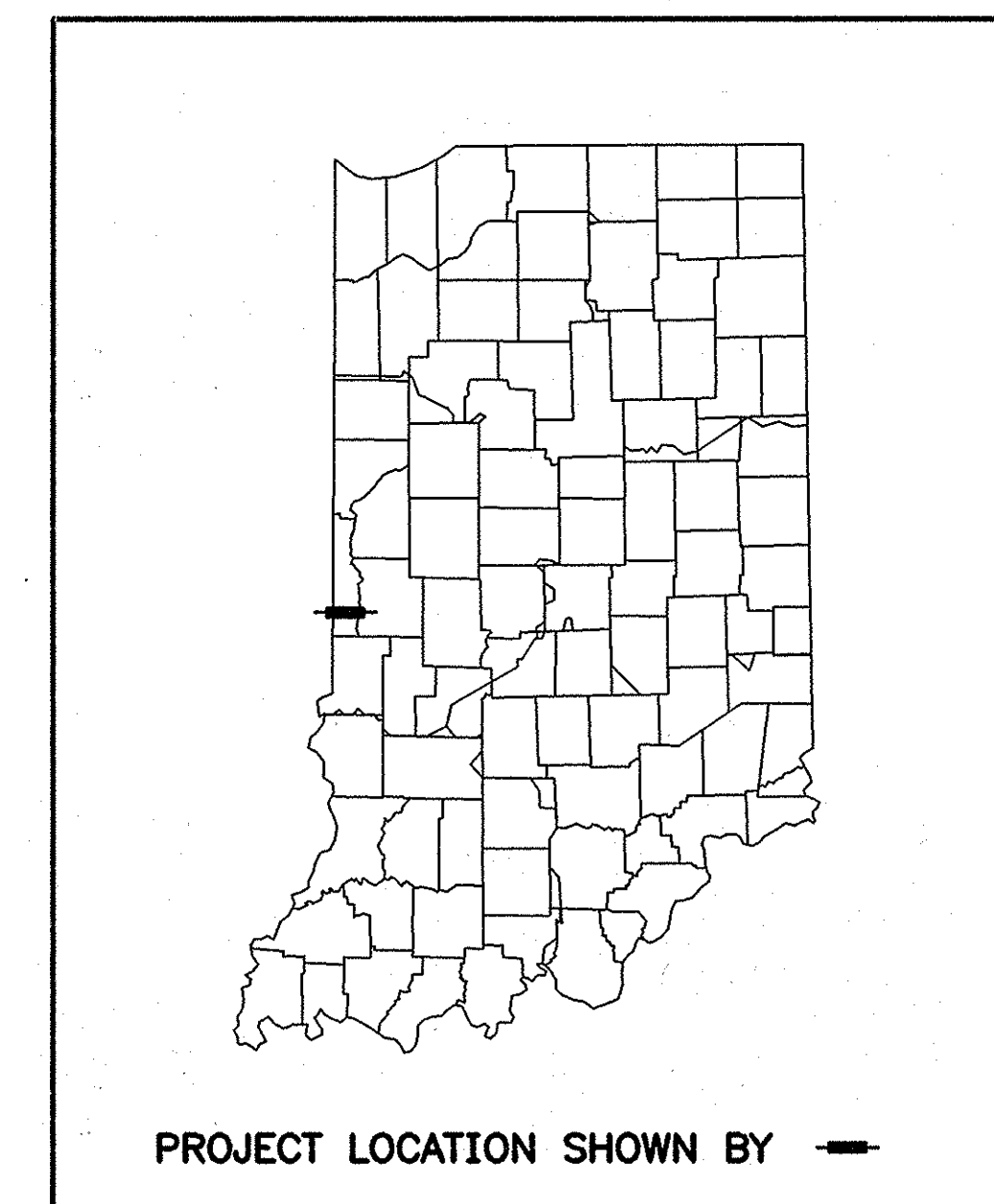
BRIDGE REHABILITATION TO STRUCTURE NO. 63-83-4323C NBL OVER BROUILLETTS CREEK
LOCATED IN SECTION 32, T.14 N., R. 9 W. VERMILLION COUNTY.

S.R. 63 @ RP 42+20



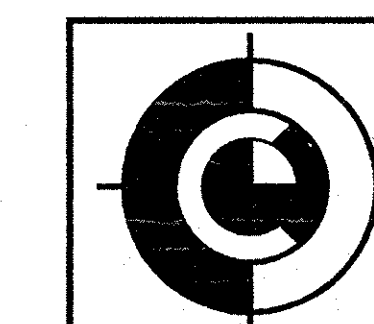
VERMILLION COUNTY
VICINITY MAP

TRAFFIC DATA	
A.A.D.T. 1998	9200 V.P.D.
A.A.D.T. 2018	12300 V.P.D.
D.H.V.	V.P.H.
DIRECTIONAL DISTRIBUTION	50 %
TRUCKS	21 % D.H.V.
E.S.A.L.'S	10 % A.A.D.T.
DESIGN DATA	
DESIGN SPEED	110 K.P.H.
PROJECT DESIGN CRITERIA	4R
FUNCTIONAL CLASSIFICATION	Arterial
RURAL/URBAN	Rural
TERRAIN	Level
ACCESS CONTROL	None



BRIDGE LENGTH :	0.153 KM.
ROADWAY LENGTH :	0.110 KM.
TOTAL LENGTH :	0.263 KM.
MAX. GRADE :	5.50 %

ALL DIMENSIONS ARE IN MILLIMETERS (mm) AND ALL
ELEVATIONS ARE IN METERS (m), EXCEPT AS NOTED



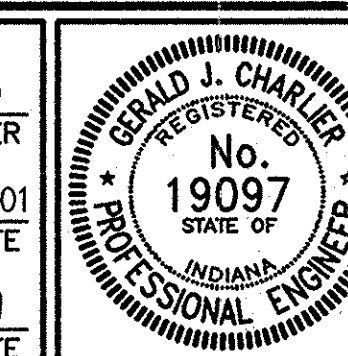
**Charlier Clark
and Linard, PC**
CONSULTING ENGINEERS
9247 North Meridian Street
Suite 225
Indianapolis, Indiana 46260
P (317) 581-9500
F (317) 581-9590

[INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 1999
TO BE USED WITH THESE PLANS]

REVISIONS	
DATE	SHEET NO.

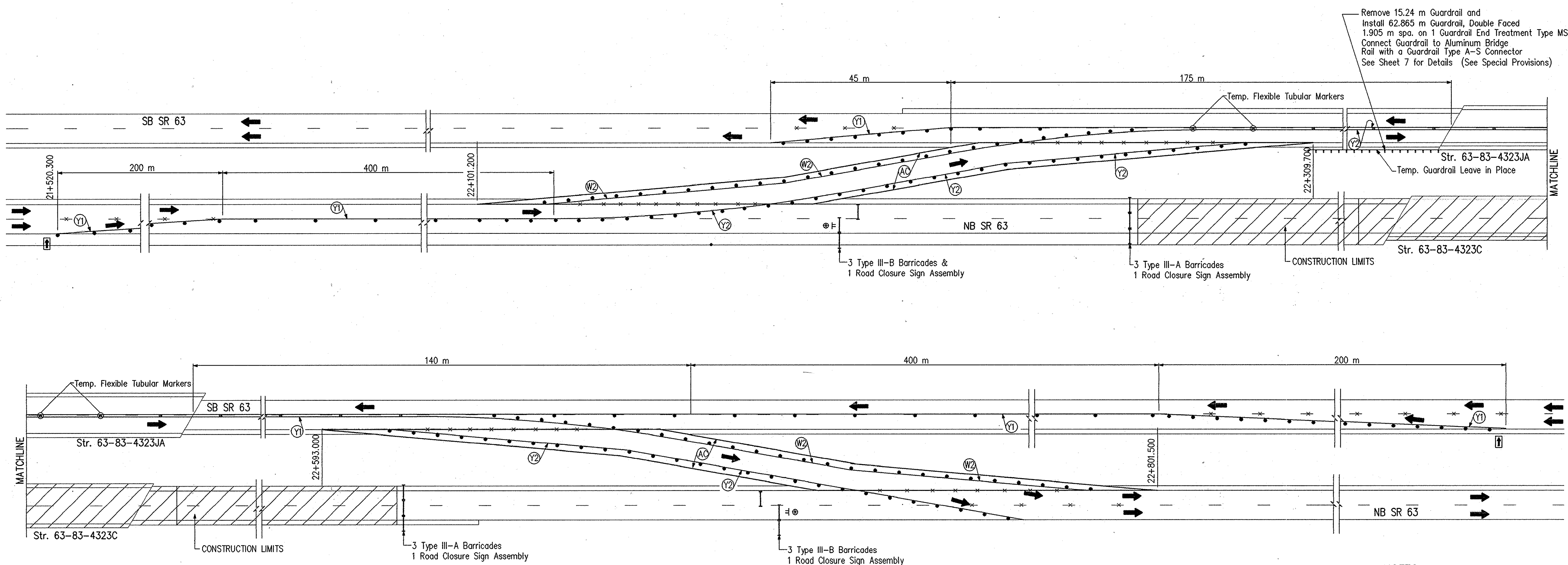
FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION
APPROVED: _____
DATE _____
DIVISION ADMINISTRATOR

PLANS PREPARED BY: CHARLIER CLARK & LINARD, P.C. (317) 581-9500
PHONE NUMBER
CERTIFIED BY: *[Signature]* 7-20-01
DATE
APPROVED: *[Signature]* 8/8/2001
FOR LETTING: _____ DATE
CHIEF, DIVISION OF DESIGN



BRIDGE FILE	63-83-4323C
DESIGNATION	9900540
SHEETS	1 of 22
CONTRACT	B 25754
PROJECT	NH-017-9()

B.25754



Remove 15.24 m Guardrail and Install 62.865 m Guardrail, Double Faced 1.905 m spa. on 1 Guardrail End Treatment Type MS Connect Guardrail to Aluminum Bridge Rail with a Guardrail Type A-S Connector See Sheet 7 for Details (See Special Provisions)



NOTES

- For additional crossover details and dimensions, See Std. Dwg 611-TCCO-01 Thru -04.
- Construction Zone Design Speed is 70 Kph
- XG20-5 To be Placed as Directed by the Engineer (2 Required)

MATERIAL NOTES

- Ⓐ Temporary HMA Crossover: 75 kg/m² Surface, 9.5, Mainline on 165 kg/m² Intermediate, 19.0 mm, Mainline on 480 kg/m² Base 25.0 mm, Mainline on 150mm Compacted Aggregate Type 0, on Compacted Subgrade.

LEGEND

- Ⓐ Temporary HMA Crossover
- Ⓜ Temporary Pavement Marking Removable, 100 mm (White)
- Ⓨ Temporary Pavement Marking Removable, 100mm (Yellow)
- Ⓦ Temporary Pavement Marking Removable, 200 mm (White)
- Ⓩ Temporary Pavement Marking Removable, 200 mm (Yellow)
- Standard Drum with Type "C" Steady Burning Light (Not a Pay Item)
- Temporary Flexible Tubular Marker
- ⊘ Remove Existing Pavement Striping
- ⊠ Flashing Arrow Board

ESTIMATED QUANTITIES

Construction Signs, Type "A"	33 Each
Construction Signs, Type "B"	5 Each
Barricade, IIIA	6 Each
Barricade, IIIB	6 Each
Road Closure Sign Assembly	4 Each
Temporary Pavement Marking, Removable, White, 100 mm	2228 m
Temporary Pavement Marking, Removable, White, 200 mm	666 m
Line, Remove	255 m
Snowplowable Pavement Markers, Remove	14 Each

* For Signing Layout, See Std. Dwg 611-TCCO-01 Thru -04.

ESTIMATED QUANTITIES

Ⓔ Line, Paint, Solid, Yellow, 100 mm	1281 m
Ⓕ Line, Paint, Solid, White, 100 mm	1281 m
Ⓖ Line, Paint, Broken, White 100 mm	382 m
△ Snowplowable Raised Pavement Markers	14 Each

PERMANENT STRIPING DETAIL

Not to Scale

PLOT DATE: 02 JUL 2001
 PLOT TIME: 15:53:48
 PLOT FILE: A32301.DWG
 PLOT NAME: A32301.DWG



RECOMMENDED FOR APPROVAL	<i>Grand J. Chalier</i>	7-20-01
DESIGNED:	TWL	DATE
DRAWN:	TWL	
CHECKED:	GDL	
	RGP	

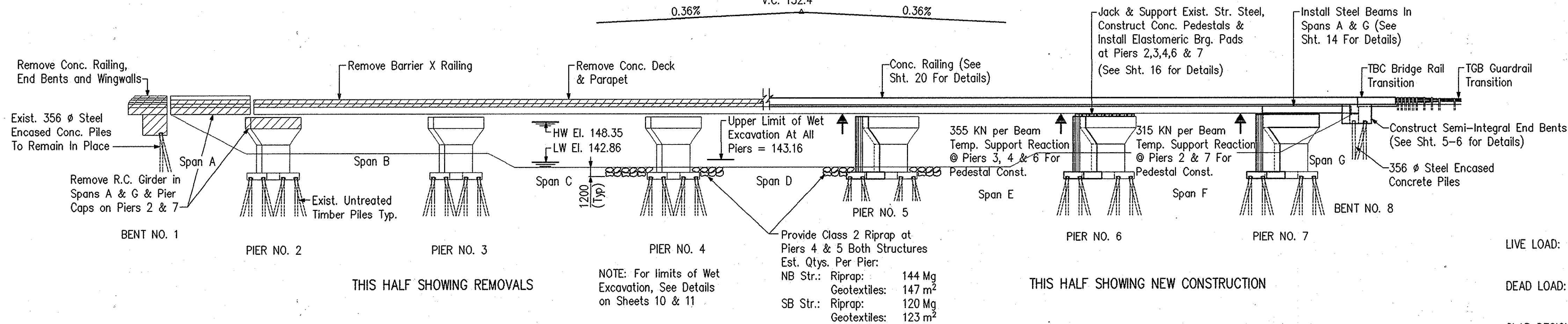
INDIANA DEPARTMENT OF TRANSPORTATION

TRAFFIC MAINTENANCE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:500	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	2 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

STRUCTURE BUILT TO A 152.4 m CURVE

PVI Sta. 22+457.359
Elev. 150.687
V.C. 152.4



THIS HALF SHOWING REMOVALS

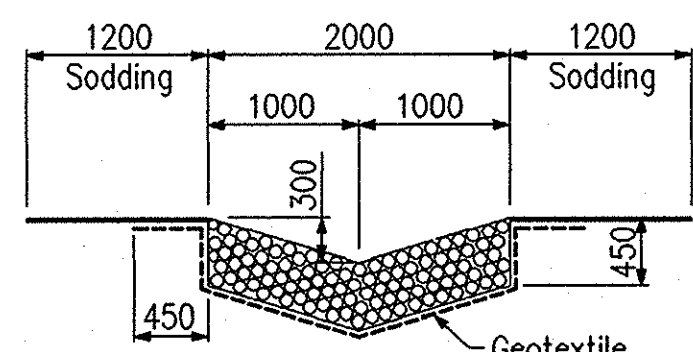
THIS HALF SHOWING NEW CONSTRUCTION

ELEVATION NORTHBOUND LANES

Scale: 1:333.3

PILE LOADS			
S.R. 63 Over Brouillets Creek			
BENT	NO. 1	2 thru 7	NO. 8
ALLOWABLE DESIGN LOAD	355 kN	355 kN	355 kN
FACTOR OF SAFETY	2.5	2.5	2.5
FACTORED DESIGN LOAD	890 kN	890 kN	890 kN
SCOUR ZONE FRICTION	N/A	0 kN *	N/A
DOWN DRAG FRICTION	N/A	0 kN *	N/A
ULTIMATE LOAD (BEARING)	890 kN	890 kN	890 kN
TESTING METHOD	BY FORMULA, STANDARD SPEC. 701.06		

* Assumed 0 since there is no Geotechnical Report.



RIPRAP DITCH SECTION

NOTES:

- Install temporary erosion and sediment control, perimeter protection along the toe of slope of the side ditches and around the bridge cone at each end of the structure. Est. Qty.: 80 m
- Place riprap ditch checks near the outlet of each side ditch. Est. Qty.: 12 m Each
- 1200 m² of Mulched Seeding, R (Undistributed) is included for restoration of disturbed areas.
- For permanent striping and snowplowable pavement markers, see details on sht. 2.

MATERIAL NOTES:

- 169 Mg HMA Wedge: 75 kg/m² HMA Surface, 9.5 mm Mainline, Over Variable Depth HMA, Intermediate, Mainline
- 9 Mg HMA Relief Joint: 1020 kg/m² HMA Base, 25 mm, Mainline
- 6 Mg HMA Shoulder: 180 kg/m HMA Base, 25 mm, Shoulder
- 710 Mg HMA Crossover: 75 kg/m² Surface, 9.5, Mainline on 165 kg/m² Intermediate, 19.0 mm, Mainline on 480 kg/m² Base, 25.0 mm, Mainline
- 894 Mg HMA for Approaches

LEGEND

- Ⓧ Reconstructed Bridge Deck (See Sht. 17-19)
- Ⓐ Construction Joint I-A (See Br. Std. 724-BJTS-01)
- Ⓟ 250 mm R.C. Pavement (See Sht. 21)
- Ⓡ Relief Joint (See Mat'l. Notes on This Sheet)
- Ⓢ HMA Shoulder (See Mat'l. Notes on This Sheet)
- Ⓦ HMA Wedge (See Mat'l. Notes on This Sheet)
- ▨ Indicates Concrete Removals in Structure
- ▩ Indicates Pavement Removal

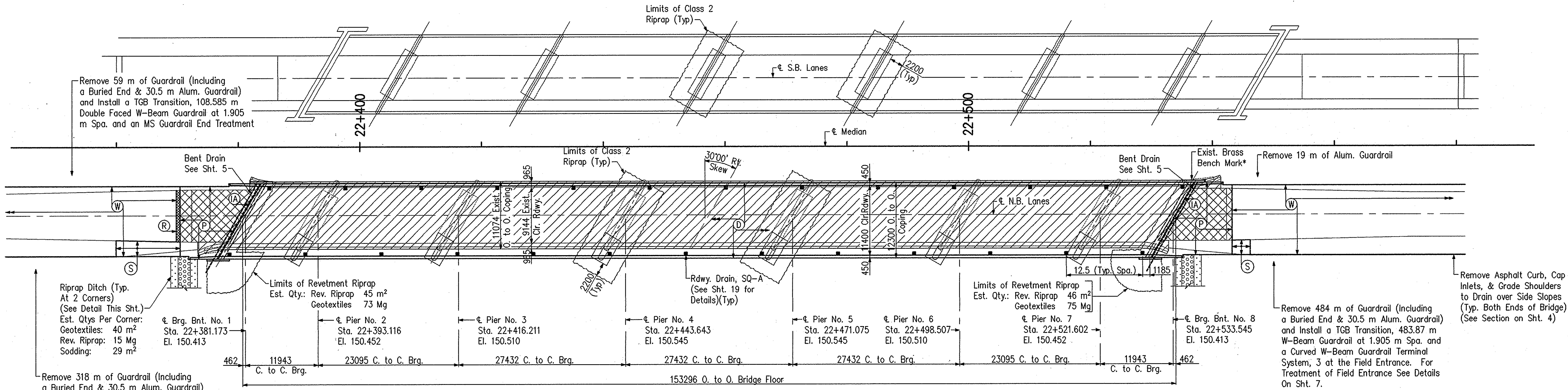
DESIGN DATA

- LIVE LOAD: HS 20-44 with impact and distribution in accordance with 1992 "A.A.S.H.T.O." Specifications
- DEAD LOAD: Actual plus 171 kg/m² for future wearing surface.**
- SLAB DESIGN: Structural Depth: 165 mm

** If permanent metal deck forms are used, the flutes shall be filled with styrofoam prior to pouring the deck.

GENERAL NOTES:

Plans for the existing structure are on file and are available upon request in the Bridge Department, Indiana Department of Transportation as:
Structure No. S.R. 63-83-4323, 63-83-4323A, & 63-83-4323B
* Bench Mark Info.: Brass marker on west end of bent No. 8
Sta. 22+537 "A", 5.632 m Right
Elev. = 149.105



PLAN

GENERAL PLAN
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE

7 SPANS: 11943, 23094, 3 @ 27432, 23094 & 11943; 2 CONCRETE RAILS
30' SKEW RIGHT 12300 CLEAR ROADWAY
S.R. 63 OVER BROUILLETS CREEK IN VERMILION COUNTY



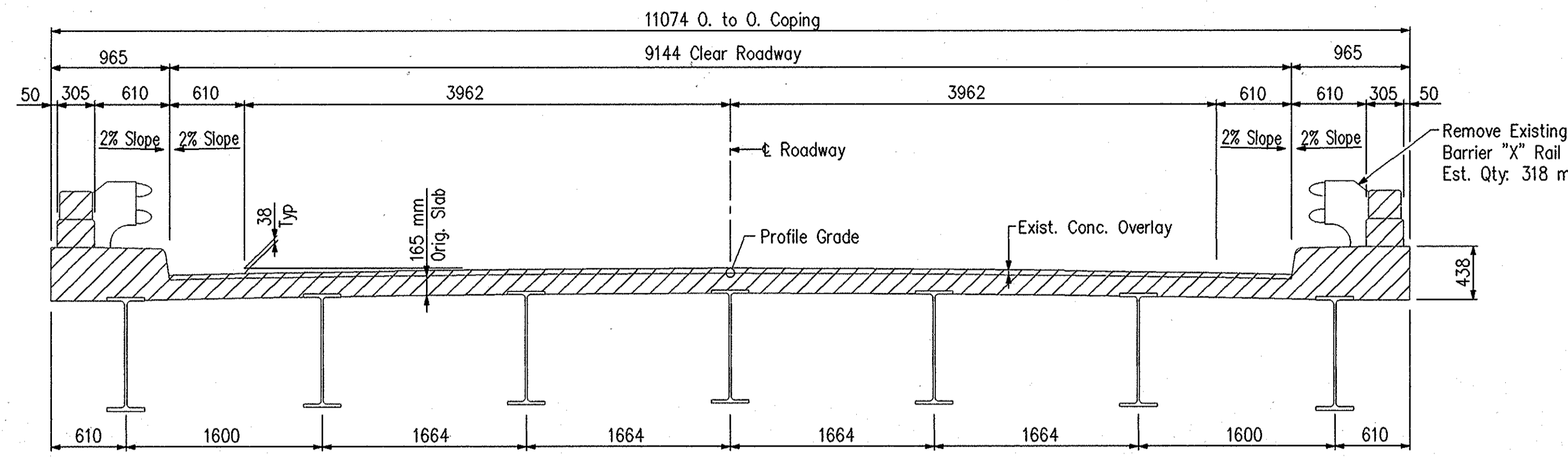
RECOMMENDED FOR APPROVAL: *Gerald J. Charles*
DESIGN ENGINEER
DATE: 7-20-01

DESIGNED: TWL DRAWN: SKF/TWL
CHECKED: GDL CHECKED: RGP

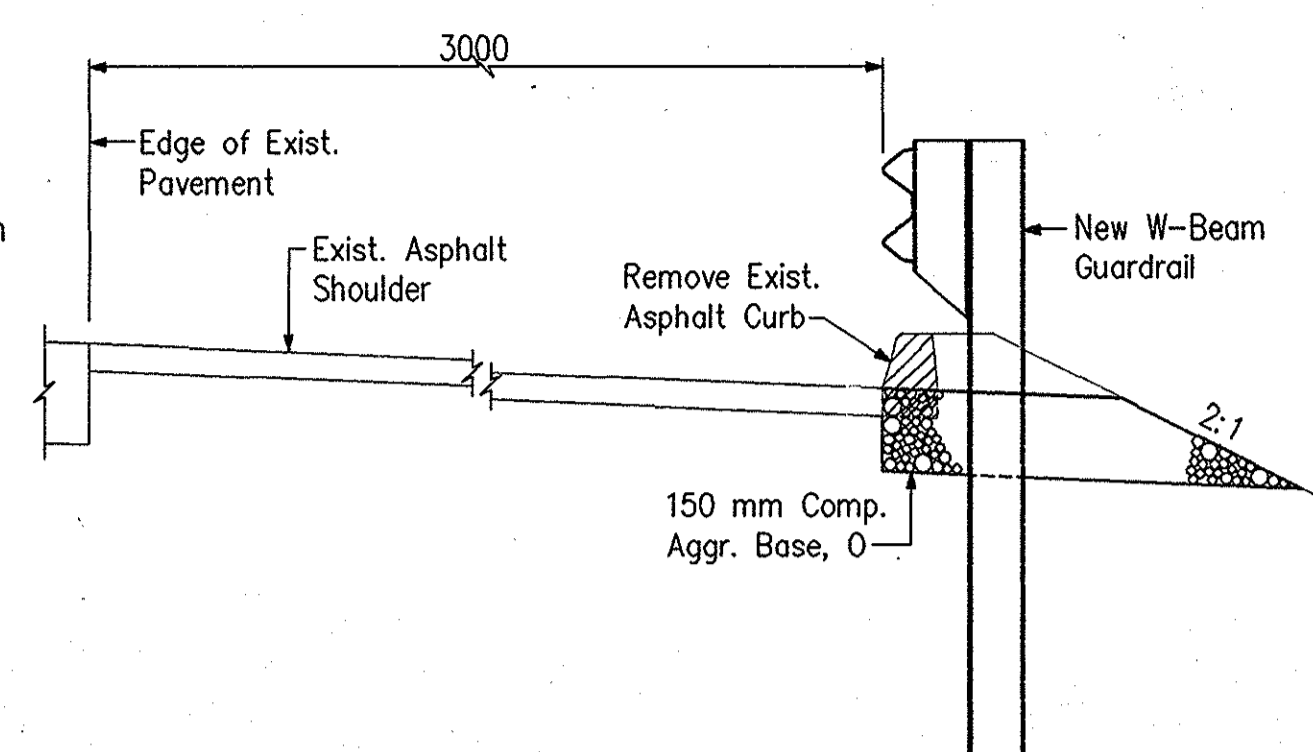
INDIANA DEPARTMENT OF TRANSPORTATION
GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1:333.3	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	3 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

PLOT DATE: 00 JUL 2001
 PLOT TIME: 14:25:32
 PLOT FILE: 14-25-32.DWG
 PLOT NAME: 14-25-32.DWG

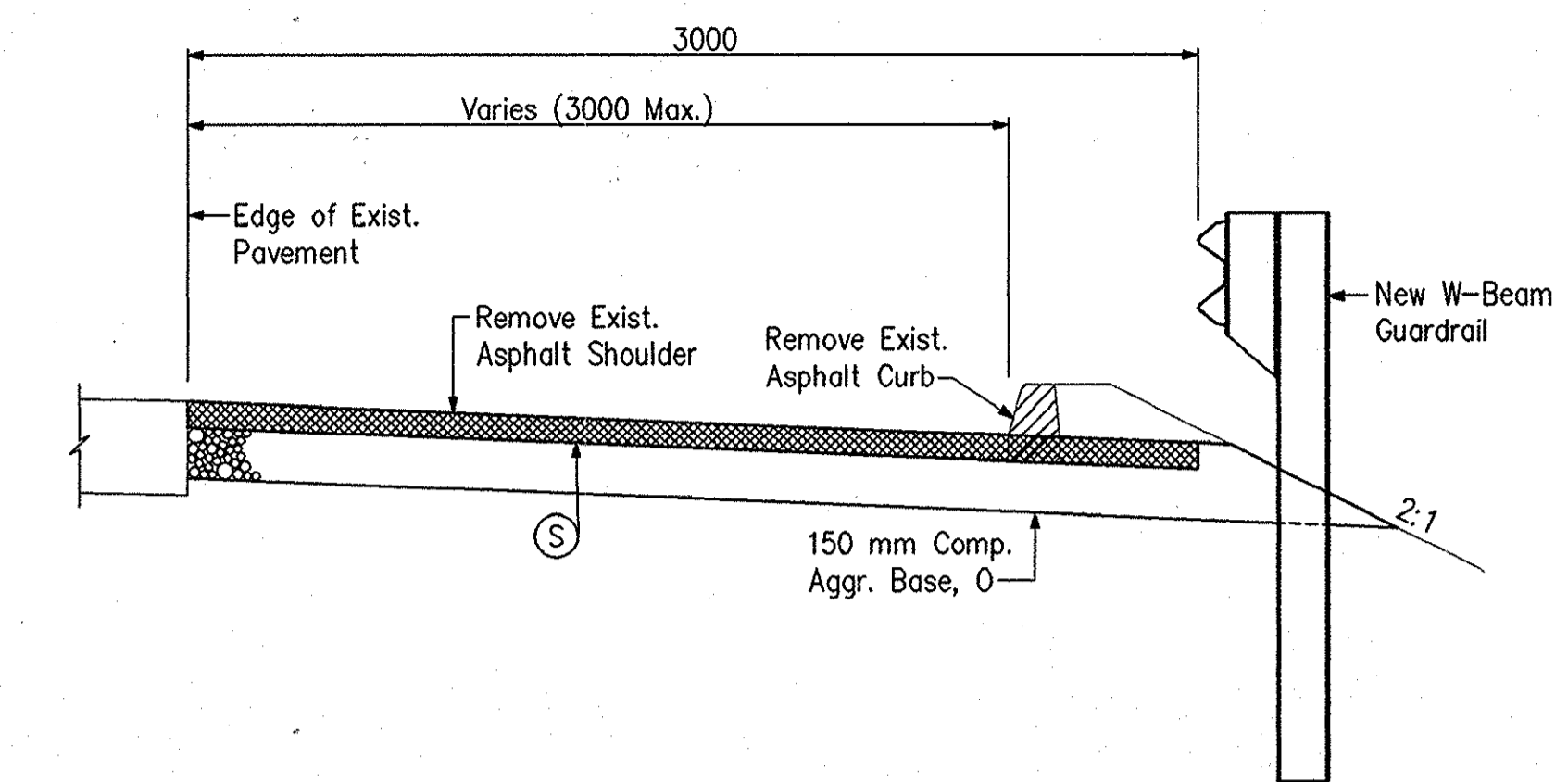


**EXISTING STRUCTURE SECTION
(SPANS B,C,D,E,F)**



TYPICAL SHOULDER SECTION

Scale: 1:20

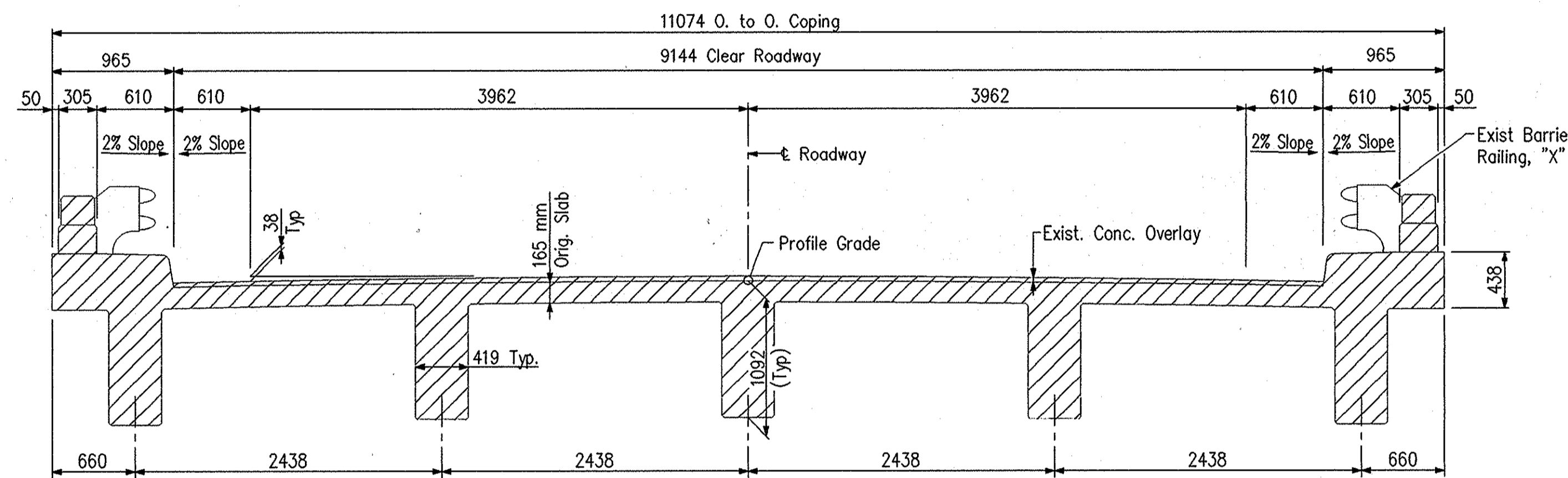


**TYPICAL SHOULDER SECTION
REPLACEMENT SECTION**

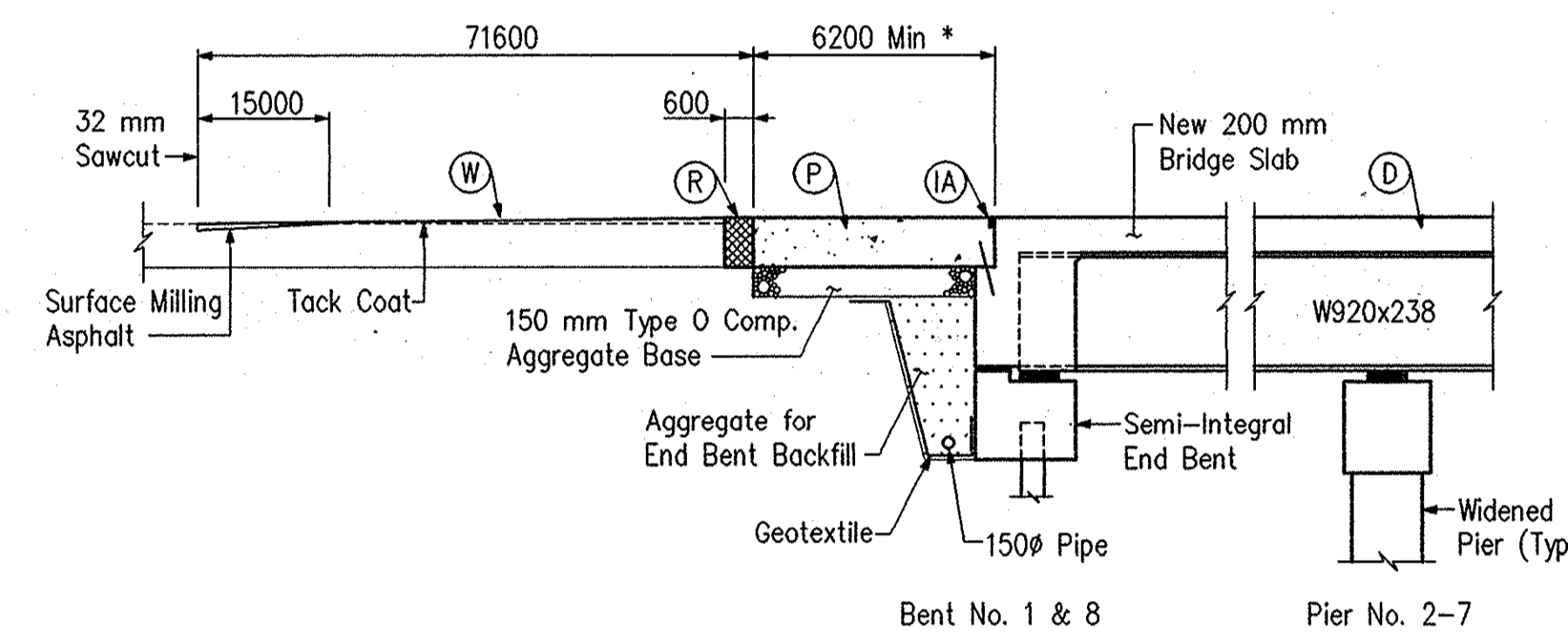
Scale: 1:20

ESTIMATED SHOULDER QUANTITIES

Linear Grading	0.817 km
Cap Inlets	8 Each
Compacted Aggregate Base, 0	415 Mg



**EXISTING STRUCTURE SECTION
(SPANS A, G)**



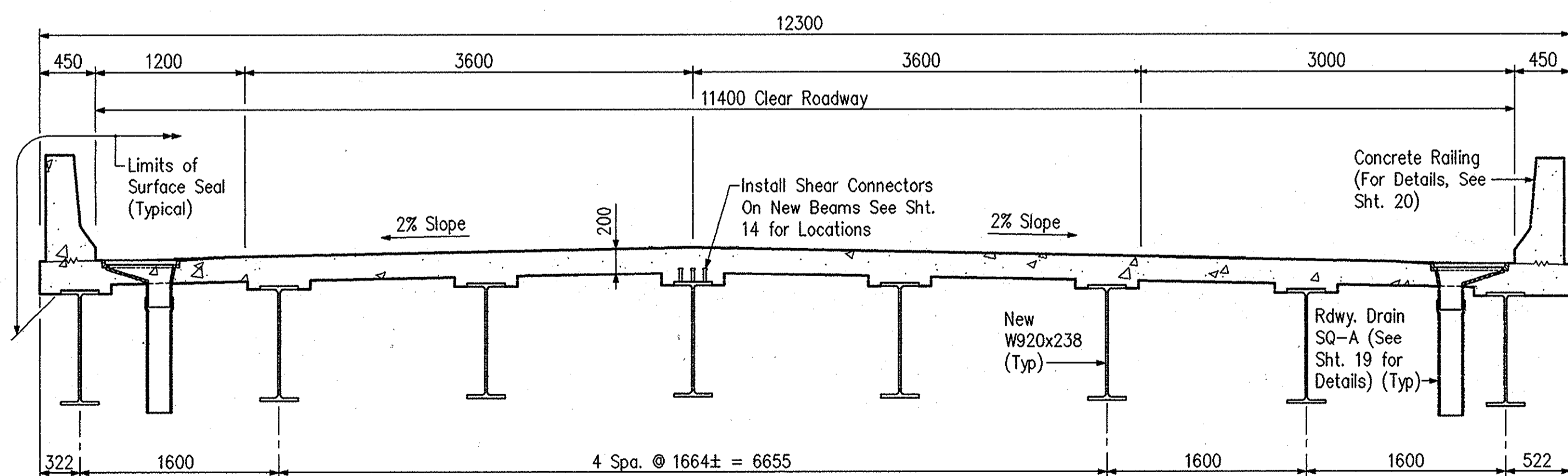
HALF LONGITUDINAL SECTION

No Scale

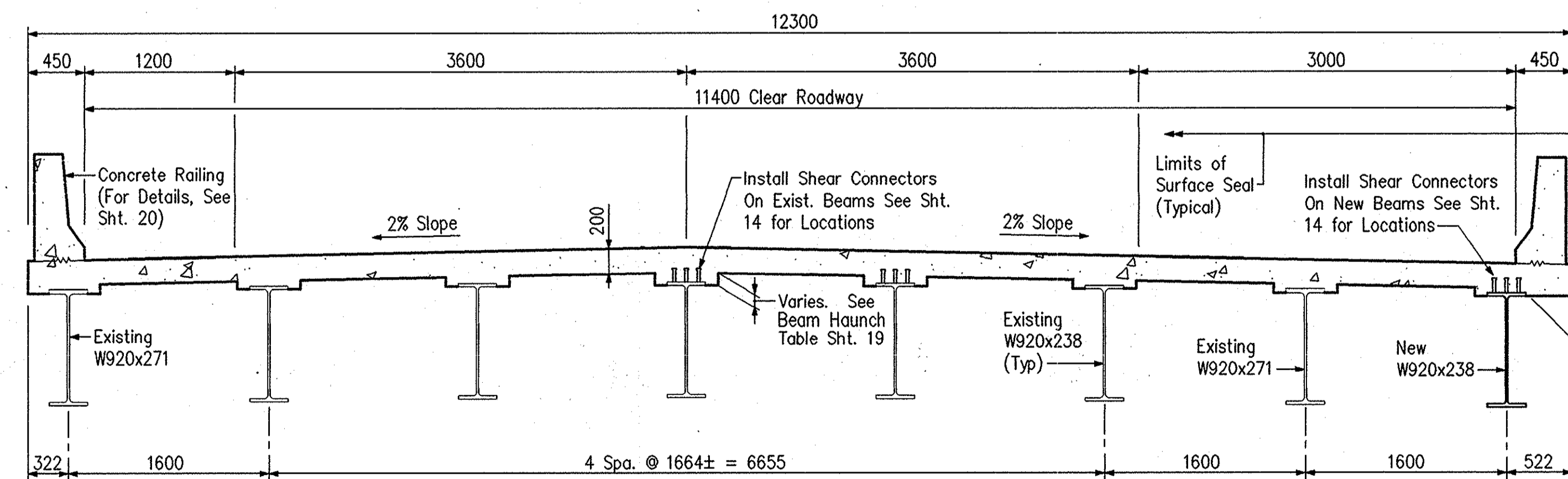
* To be a continuation of the bridge deck profile.
** Taper wedge uniformly to meet existing grade.

LEGEND

- (D) Reconstructed Bridge Deck (See Sht. 17-19)
- (IA) Construction Joint I-A (See Br. Std. 724-BJTS-01)
- (P) 250 mm R.C. Pavement (See Sht. 21)
- (R) Remove & Replace Material In HMA Relief Joint (See Mat'l. Notes on Sht. 3)
- (S) HMA Shoulder (See Mat'l. Notes on Sht. 3)
- (W) HMA Wedge (See Mat'l. Notes on Sht. 3)
- [Hatched Box] Indicates Concrete Removals in Structure
- [Cross-hatched Box] Indicates Pavement Removal

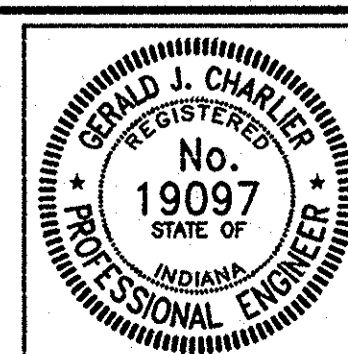


TYPICAL STRUCTURE SECTION - SPANS A & G



TYPICAL STRUCTURE SECTION - SPANS B, C, D, E & F

PLOT DATE: 10 JUL 2001
 PLOT TIME: 15:50:13
 N: 138040
 E: 142352
 FILE NAME: 142352.DWG



RECOMMENDED FOR APPROVAL: *[Signature]*
 DESIGN ENGINEER: 7-20-01
 DATE: 7-20-01
 DESIGNED: TWL DRAWN: TWL
 CHECKED: GDL CHECKED: RGP

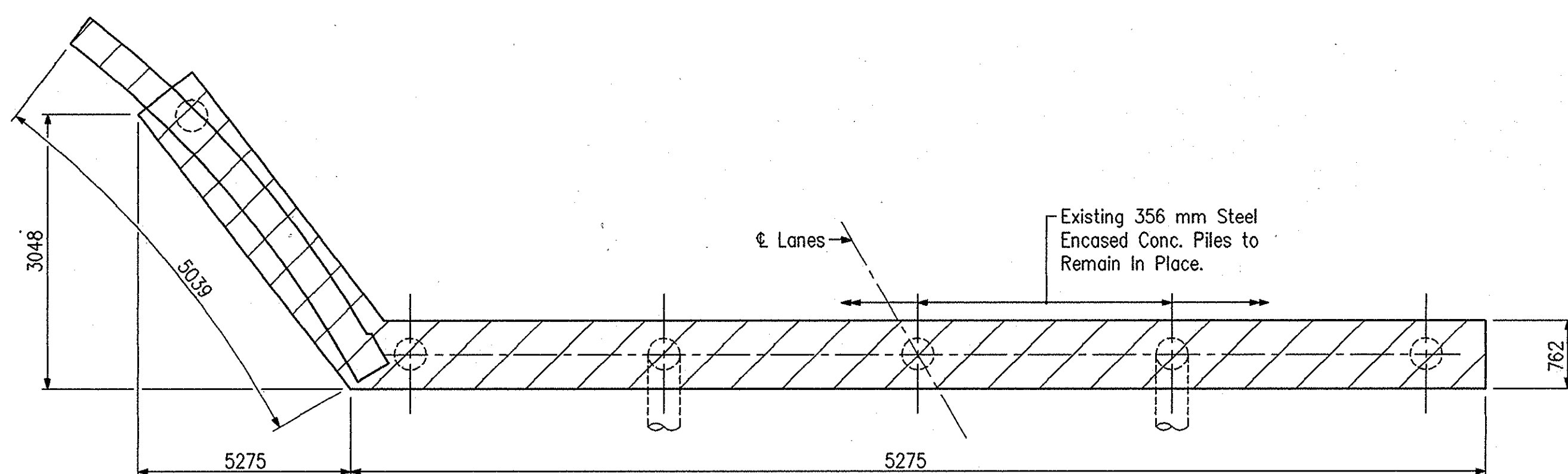
INDIANA DEPARTMENT OF TRANSPORTATION
 STRUCTURE SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1:33.3	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	4 of 22
CONTRACT	PROJECT
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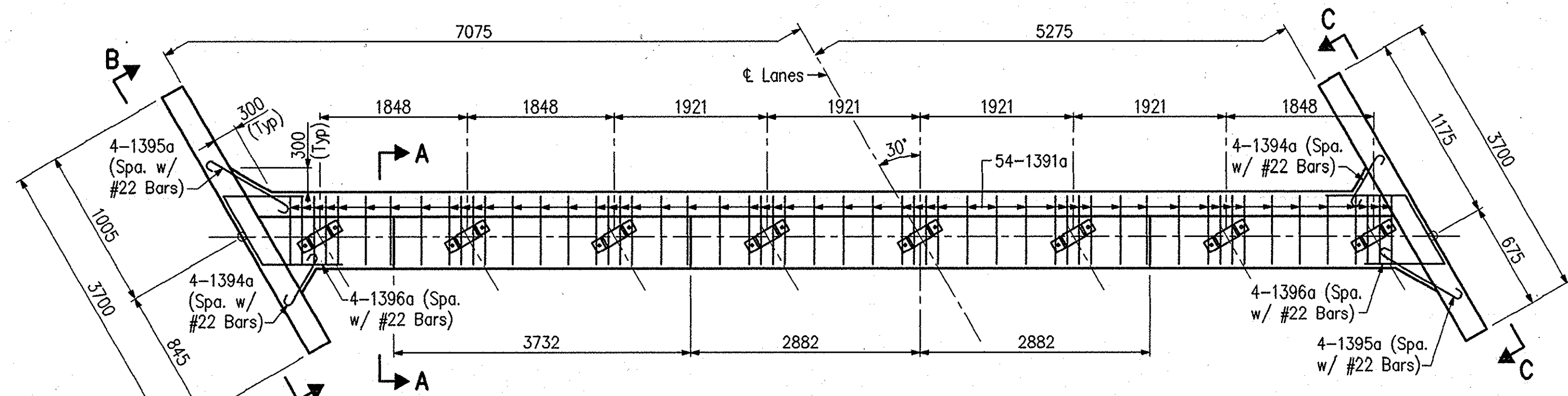
BILL OF MATERIALS

Bent No. 1

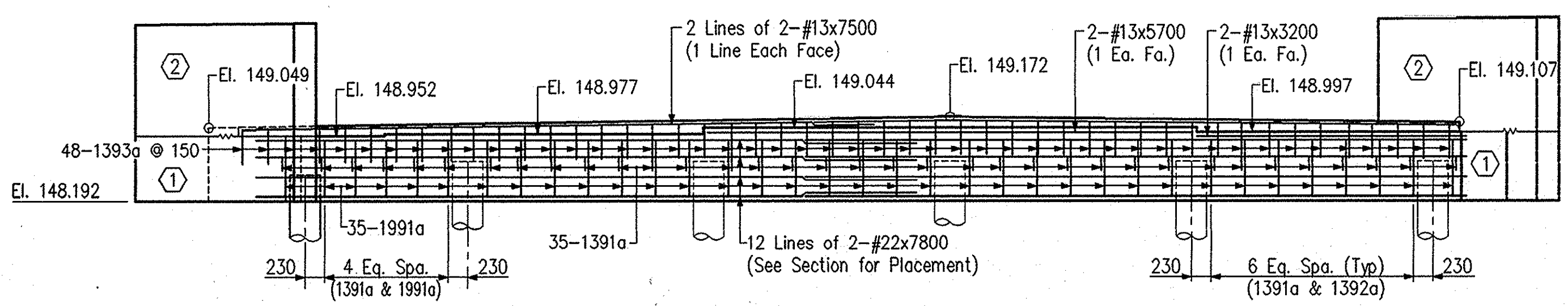
REINFORCING STEEL			
SIZE OR MARK	NO. OF BARS	LENGTH	MASS (kg)
EPOXY COATED REINFORCING			
#22	24	7800	
Total #22 Bars			569
1991a	35	2470	
Total #19 Bars			193
1391a	89	1150	
1392a	30	500	
1393a	48	1000	
1394a	8	1100	
1395a	8	1500	
1396a	8	2980	
#13	4	7500	
#13	2	5700	
#13	32	3600	
#13	2	3200	
#13	26	2000	
#13	26	1960	
Total #13 Bars			473
Total E.C. Reinforcing Steel			1235
CONCRETE			
Concrete, A, In Substructure			
Pour No. 1		12.7 m ³	
Pour No. 2		2.9 m ³	
Total Concrete, A, In Substructure			15.6 m ³
MISCELLANEOUS			
1-Pile, Conc., Steel Shell Encased, 5.31 mm, 356 mm (10 m Each)			10 m
Pipe, End Bent Drain, 150 mm			14 m
Elastomeric Bearing Assemblies			8 Each
Aggregate for End Bent Backfill			17 m ³
Pipe, Underdrain Outlet, 150 mm			3 m



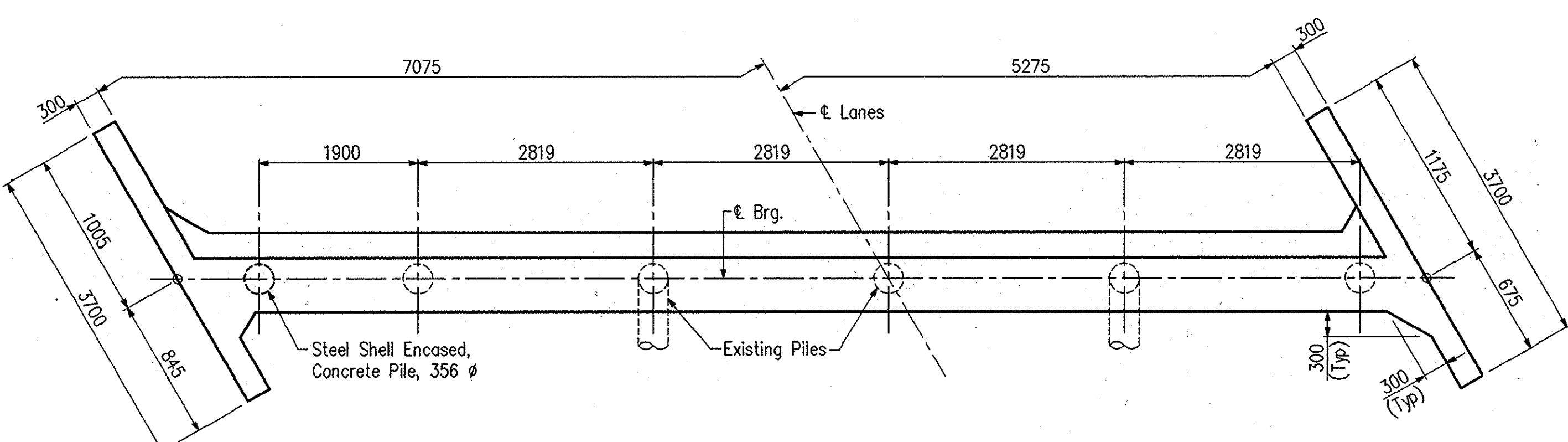
REMOVAL PLAN
Scale: 1:50



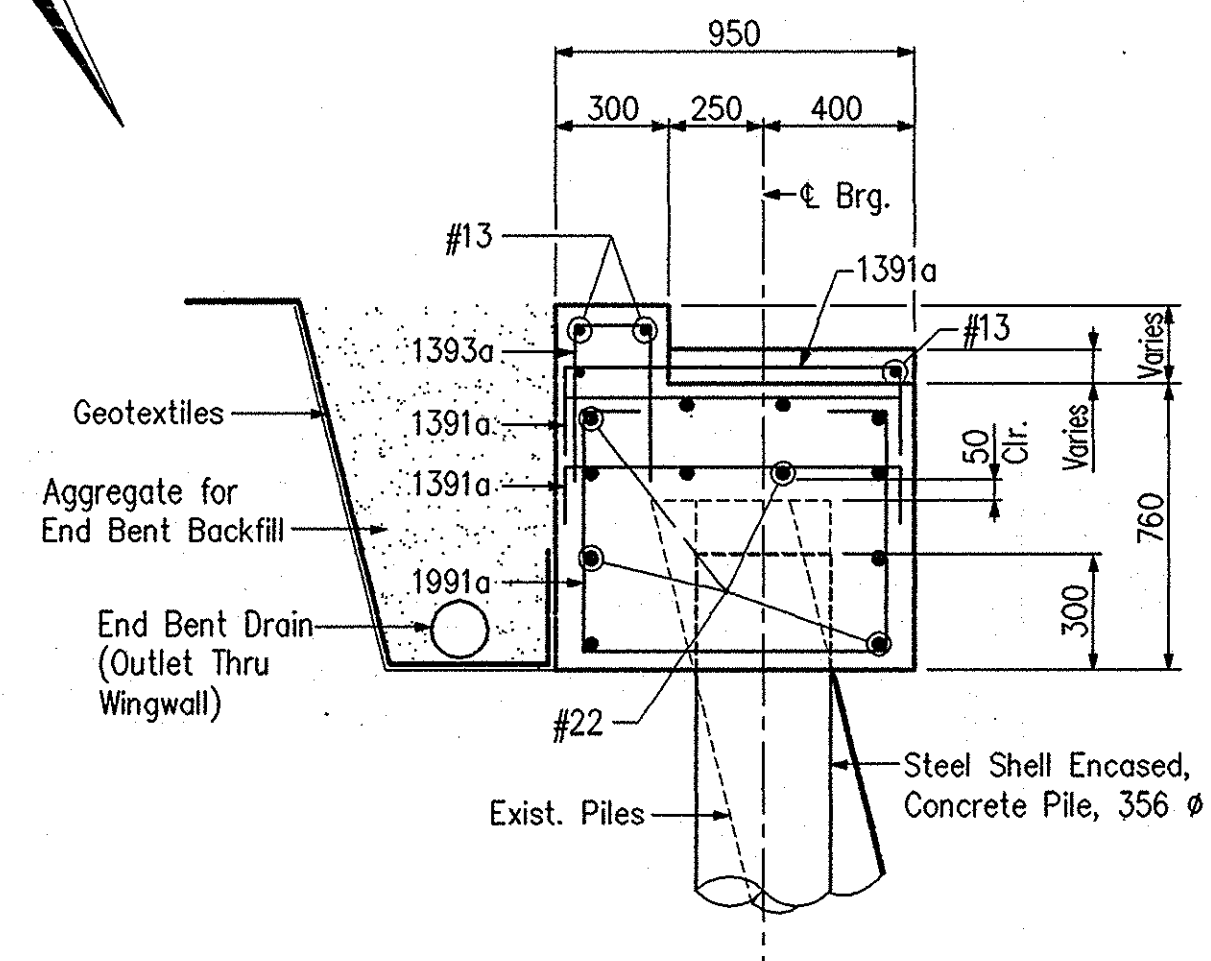
PLAN - BENT 1
Scale: 1:50



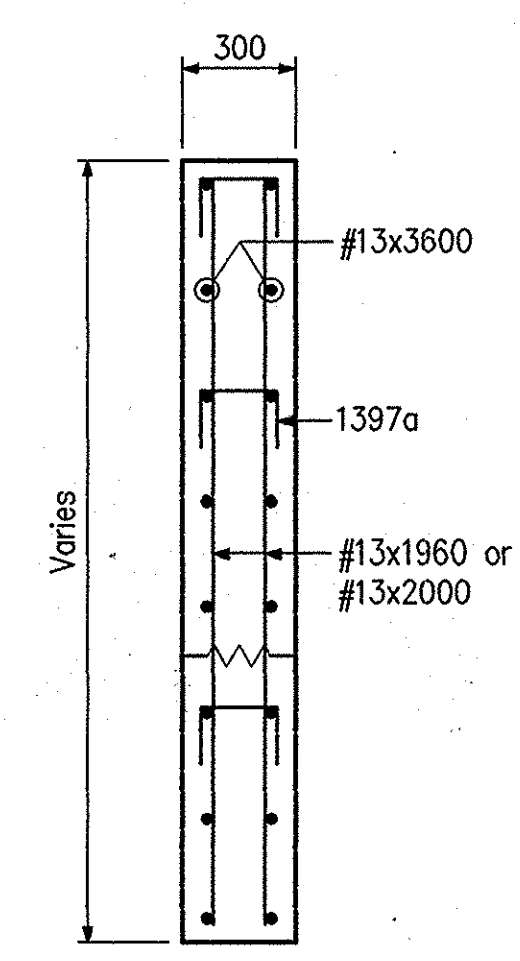
ELEVATION - BENT 1
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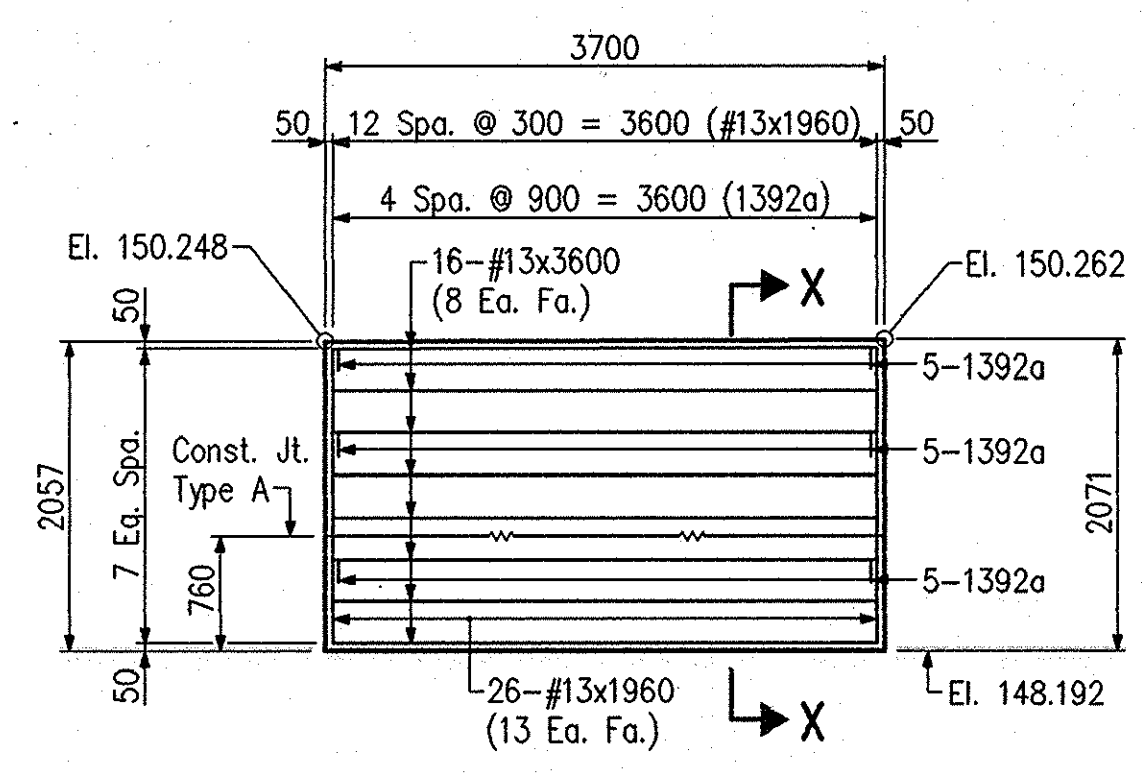
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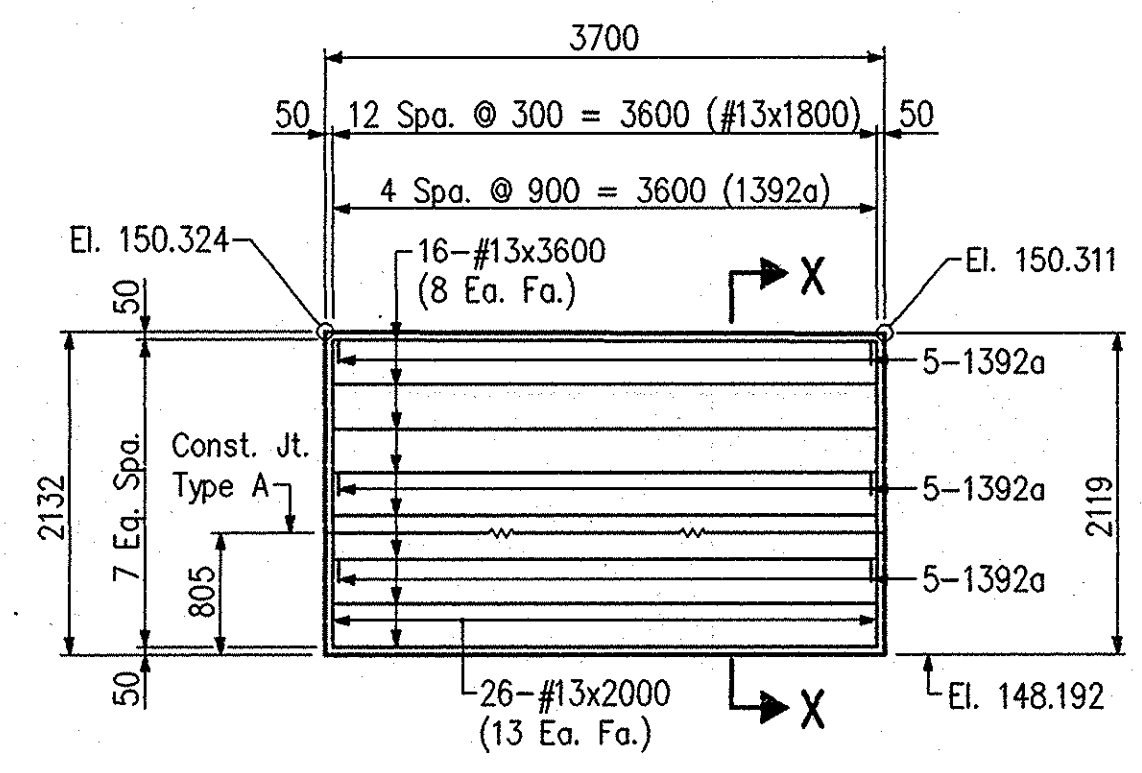
SECTION A-A
Scale: 1:20



SECTION X-X
Scale: 1:20

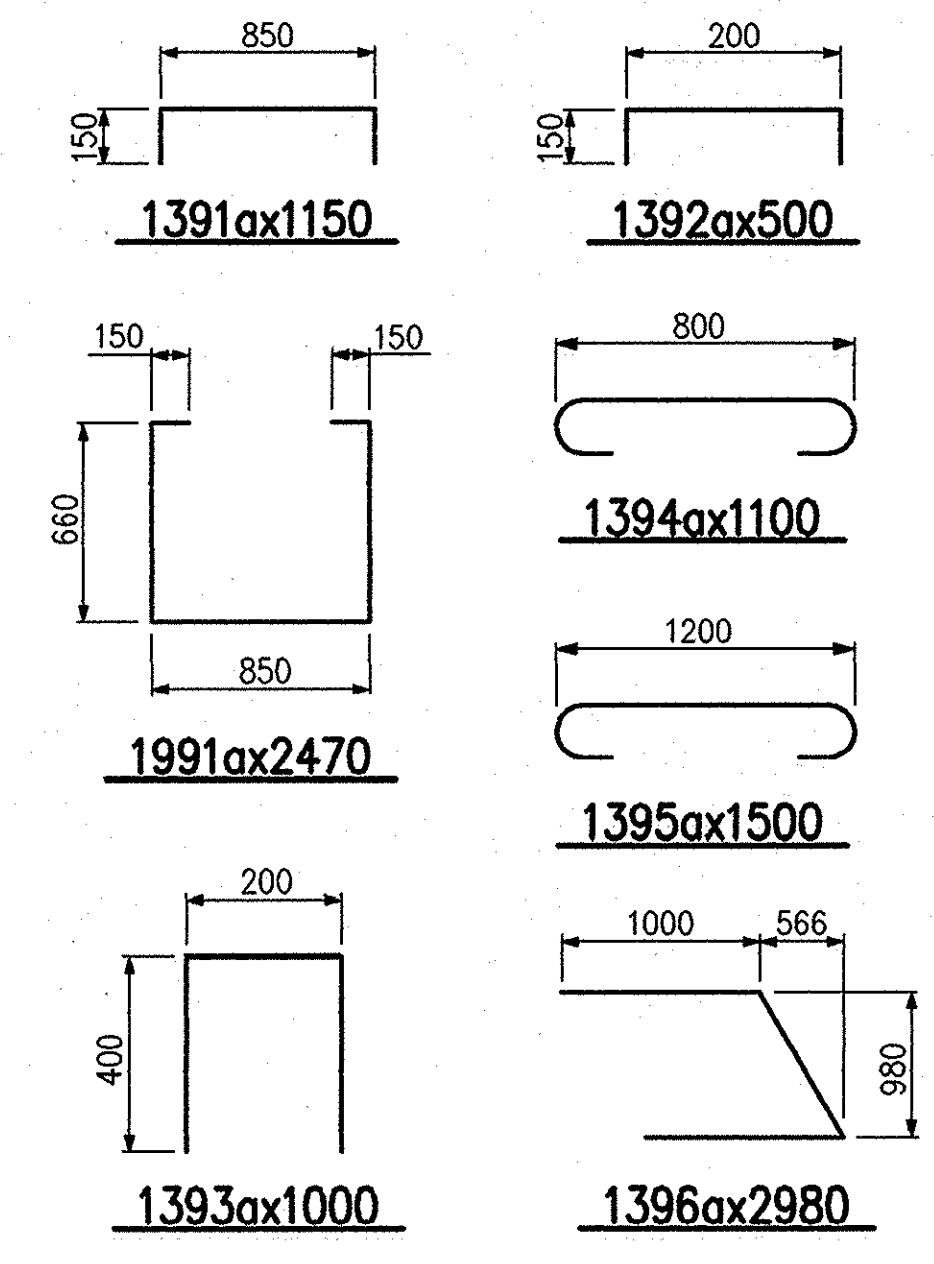


WINGWALL ELEVATION B-B
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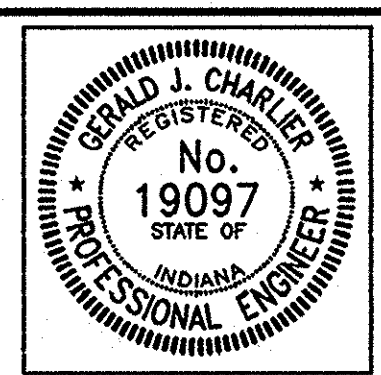


WINGWALL ELEVATION C-C
Scale: 1:50

- NOTES**
- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
 - For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
 - (X) Indicates Concrete Pour Number
 - All Reinforcing Steel in End Bents to be Epoxy Coated.
 - For Bearing Assembly & Side Retainer Details, See Sht. 16.
 - Minimum lap for #22 Bars is 1300 mm.
 - Minimum lap for #13 Bars is 700 mm.



PLOT DATE: 20 JUL 2001
 PLOT TIME: 14:18:39
 PATH: N:\99040\RS2BENT1.DWG



RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	7-20-01
DESIGNED:	JCH	DRAWN:
CHECKED:	GDL	CHECKED:
		TWL
		RGP

INDIANA
DEPARTMENT OF TRANSPORTATION

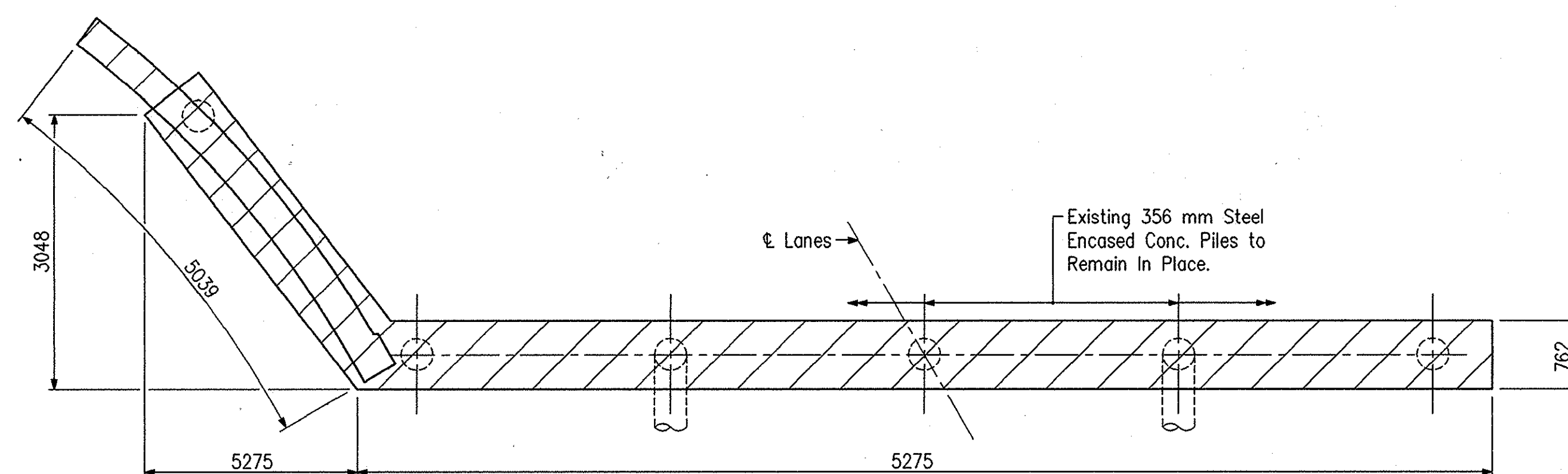
**BENT NO. 1
DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
1:50	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	5 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

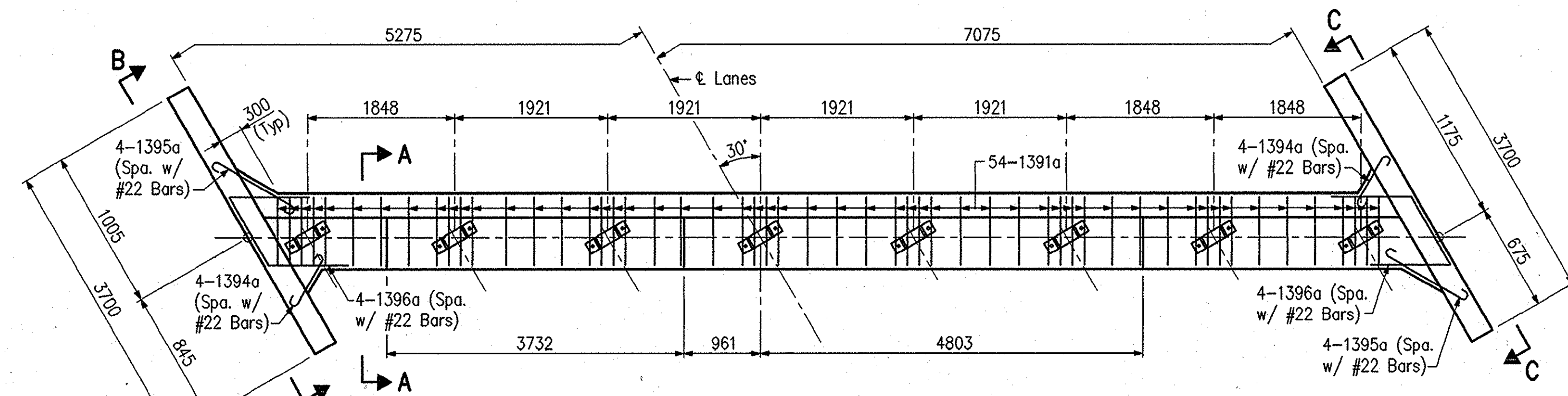
BILL OF MATERIALS

Bent No. 8

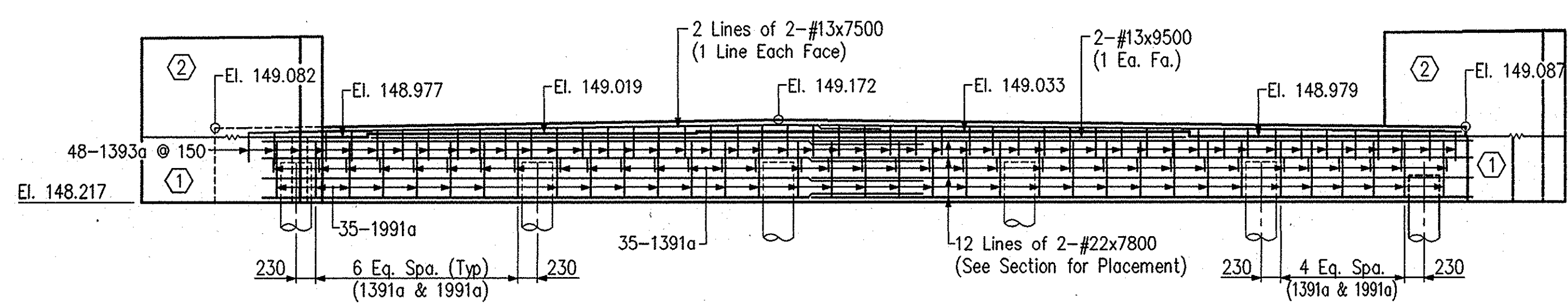
REINFORCING STEEL			
SIZE OR MARK	NO. OF BARS	LENGTH	MASS (kg)
EPOXY COATED REINFORCING			
#22	24	7800	
Total #22 Bars			569
1991a	35	2470	
Total #19 Bars			193
1391a	89	1150	
1392a	30	500	
1393a	48	1000	
1394a	8	1100	
1395a	8	1500	
1396a	8	2980	
#13	4	7500	
#13	2	9500	
#13	32	3600	
#13	26	2000	
#13	26	1960	
Total #13 Bars			422
Total E.C. Reinforcing Steel			1184
CONCRETE			
Concrete, A, In Substructure			
Pour No. 1	11.4	m ³	
Pour No. 2	2.9	m ³	
Total Concrete, A, In Substructure			14.3 m ³
MISCELLANEOUS			
1-Pile, Conc., Steel Shell Encased, 5.31 mm, 356 mm (10 m)	10	m	
Pipe, End Bent Drain, 150 mm	14	m	
Elastomeric Bearing Assemblies	8	Each	
Aggregate for End Bent Backfill	17	m ³	
Pipe, Underdrain Outlet, 150 mm	3	m	



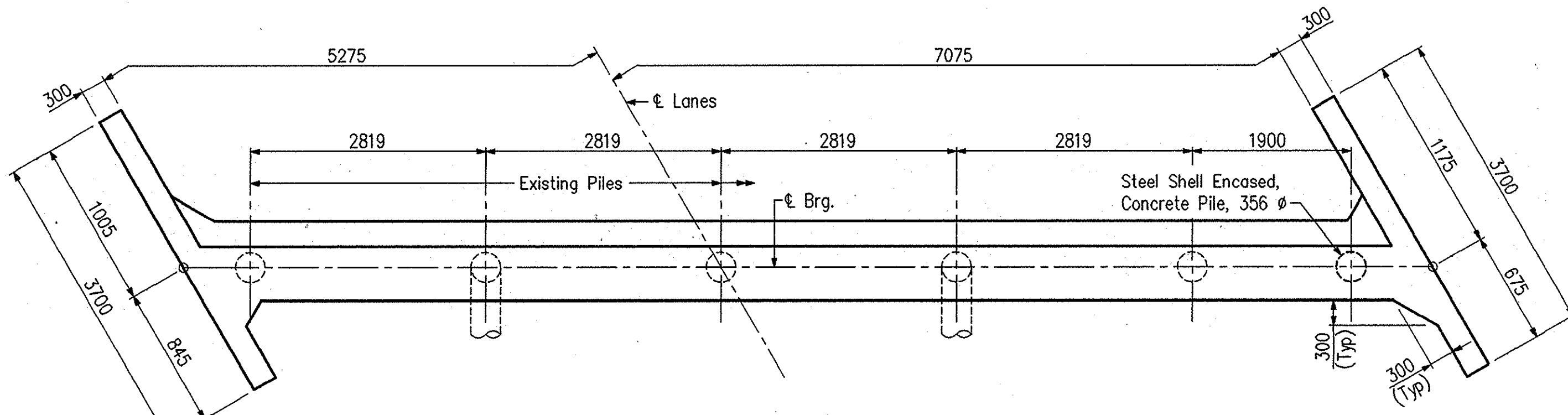
REMOVAL PLAN
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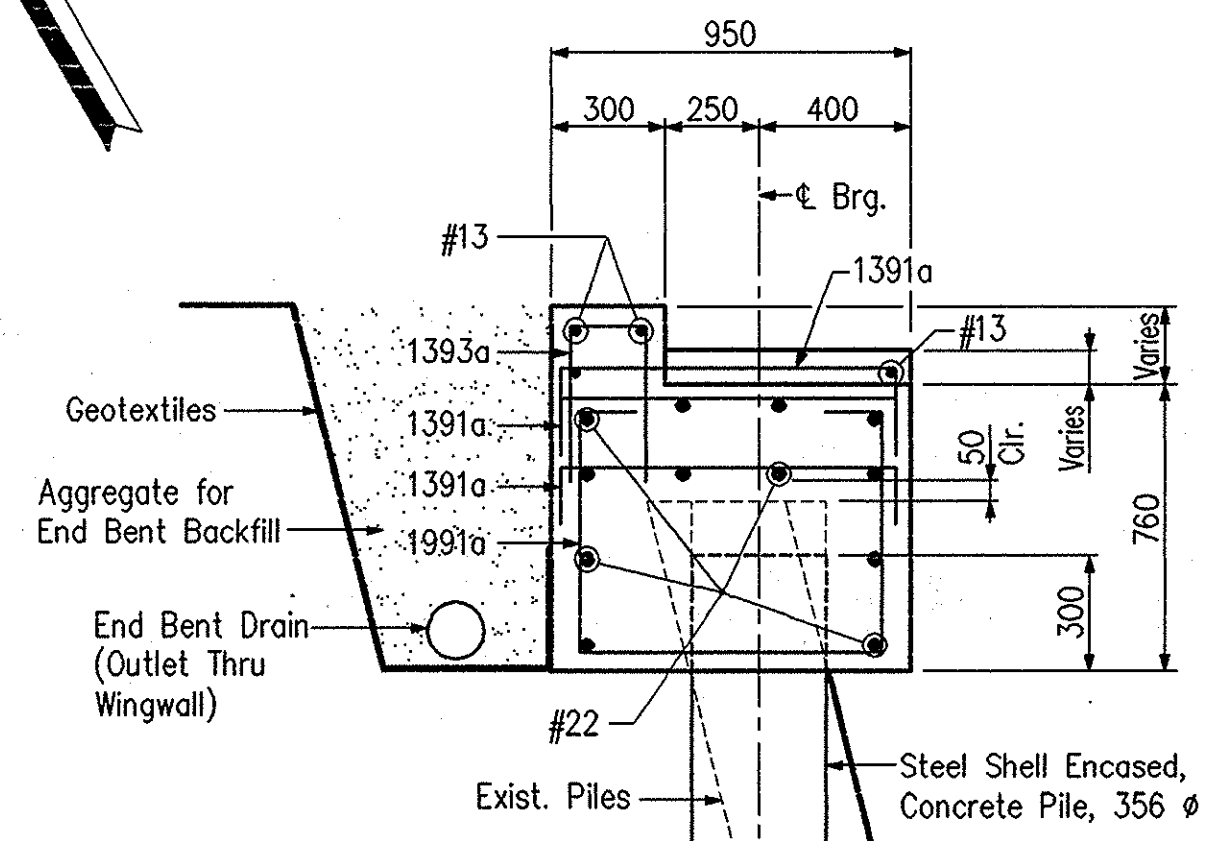
PLAN - BENT 8
Scale: 1:50



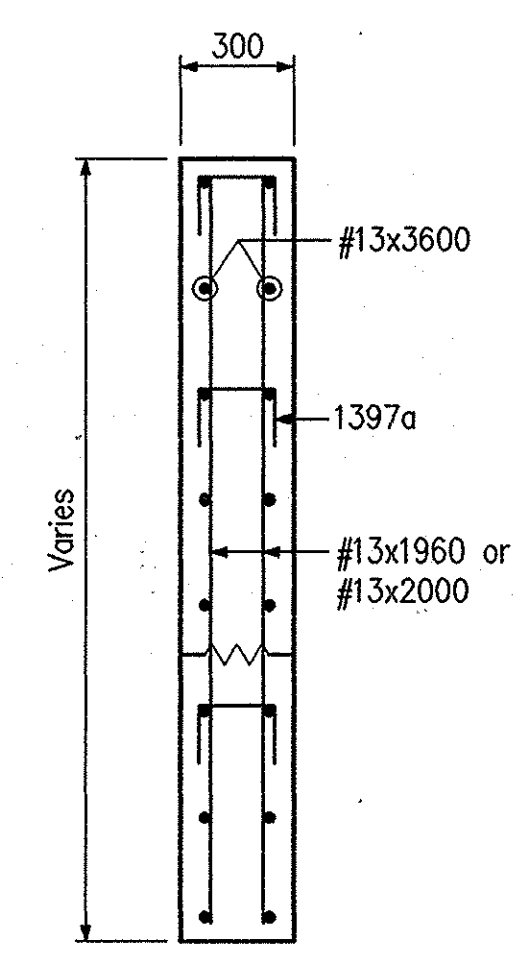
ELEVATION - BENT 8
Scale: 1:50



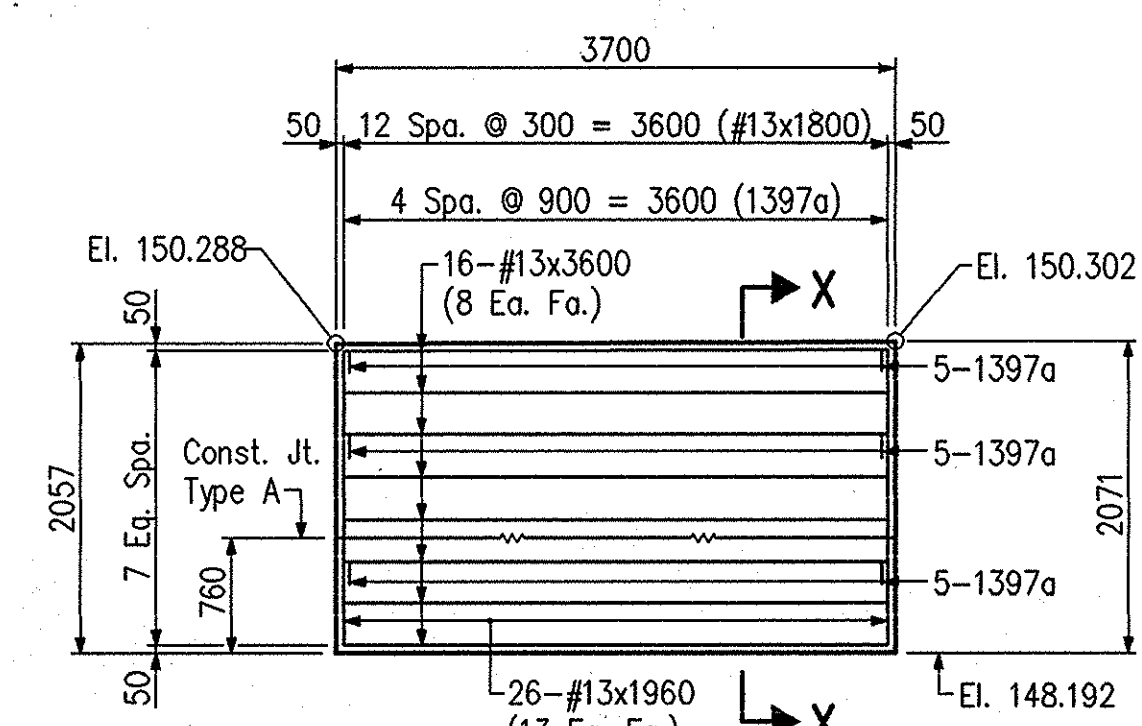
PILE PLAN - BENT 8
Scale: 1:50



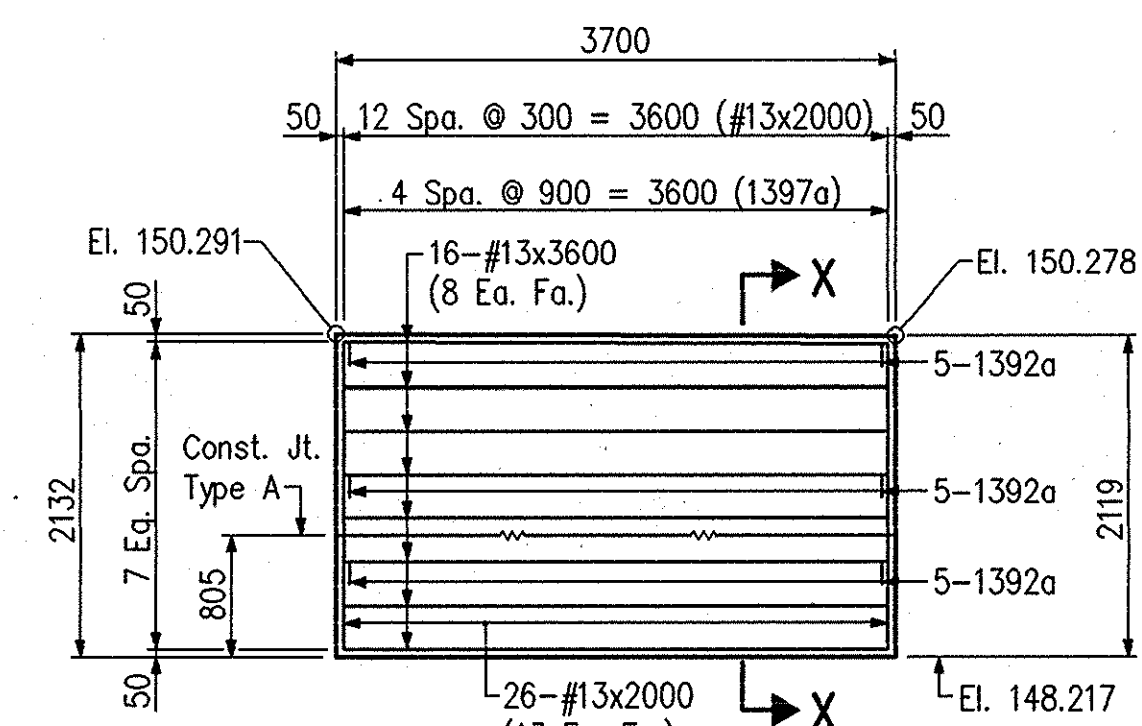
SECTION A-A
Scale: 1:20



SECTION X-X
Scale: 1:20



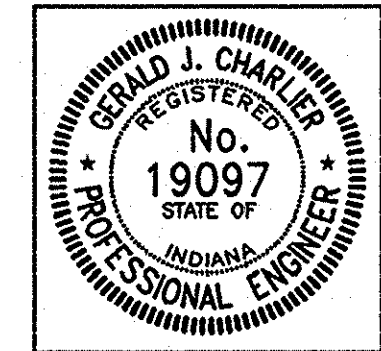
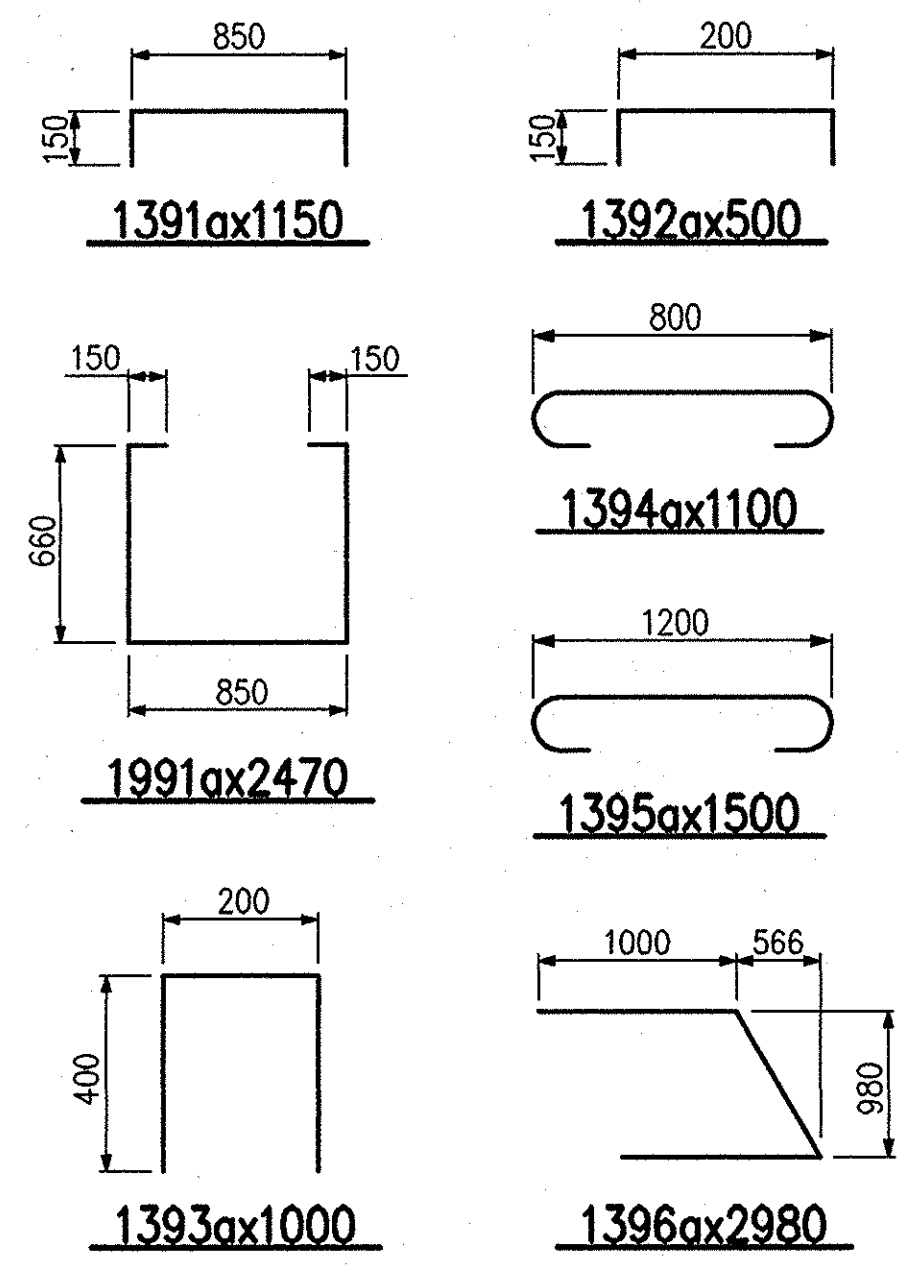
WINGWALL ELEVATION B-B
Scale: 1:50



WINGWALL ELEVATION C-C
Scale: 1:50

NOTES

- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
- (X) Indicates Concrete Pour Number
- All Reinforcing Steel in End Bents to be Epoxy Coated.
- For Bearing Assembly & Side Retainer Details, See Sht. 16.
- Minimum lap for #22 Bars is 1300 mm.
- Minimum lap for #13 Bars is 700 mm.

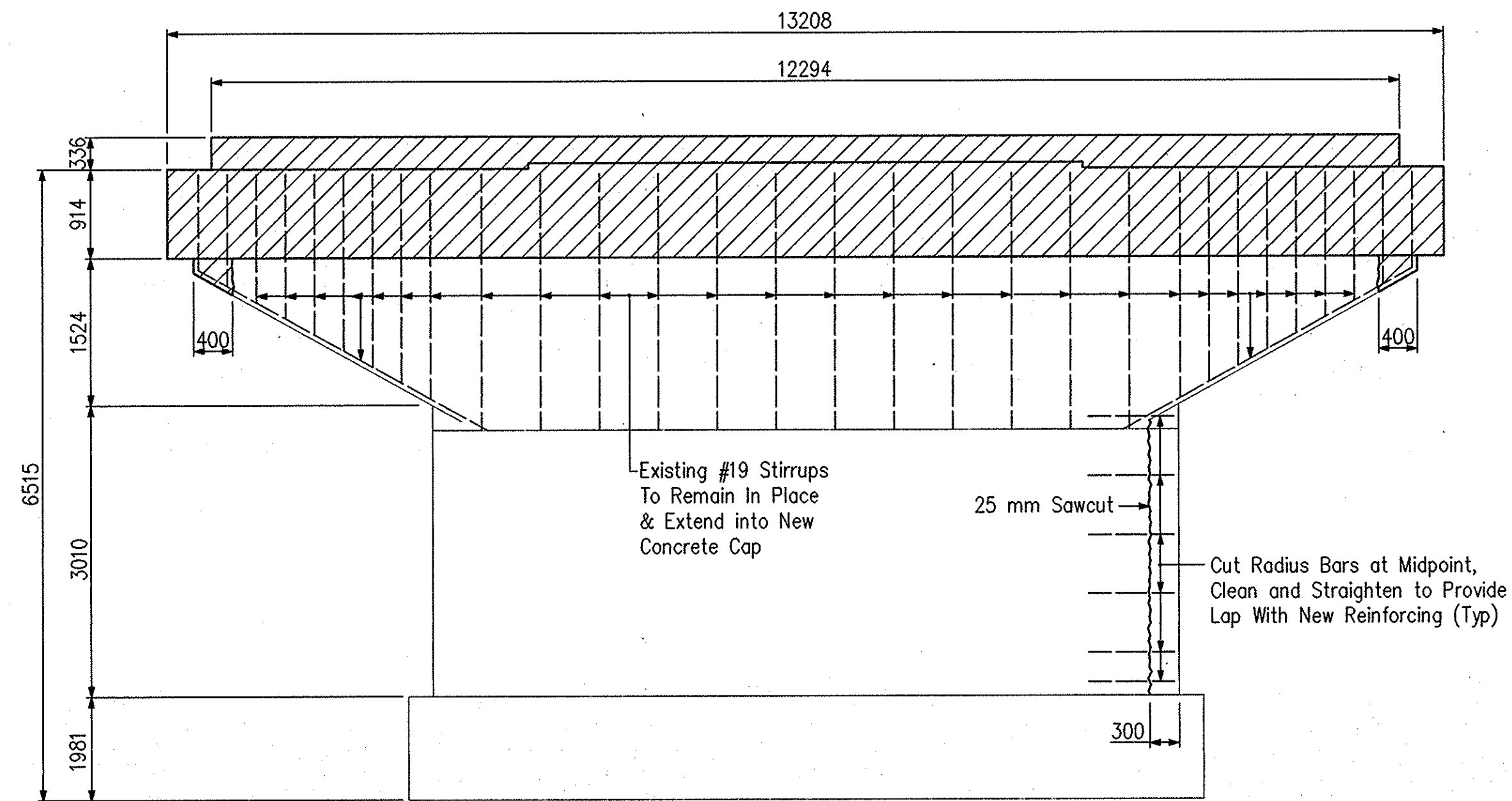


RECOMMENDED FOR APPROVAL: *[Signature]* DESIGN ENGINEER DATE: 7-20-01
 DESIGNED: JCH DRAWN: TWL
 CHECKED: GDL CHECKED: RGP

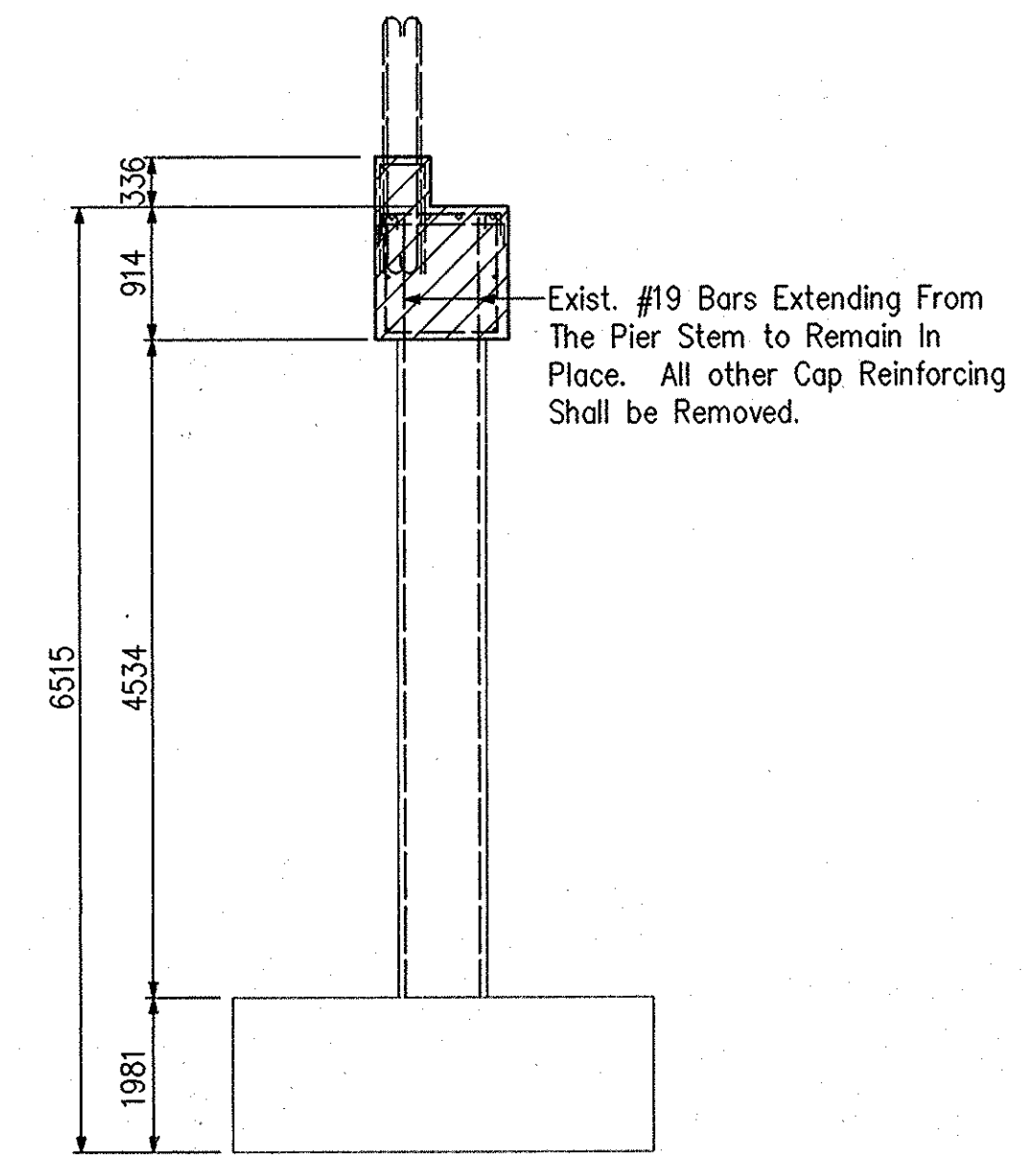
INDIANA DEPARTMENT OF TRANSPORTATION
BENT NO. 8 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:50	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	6 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

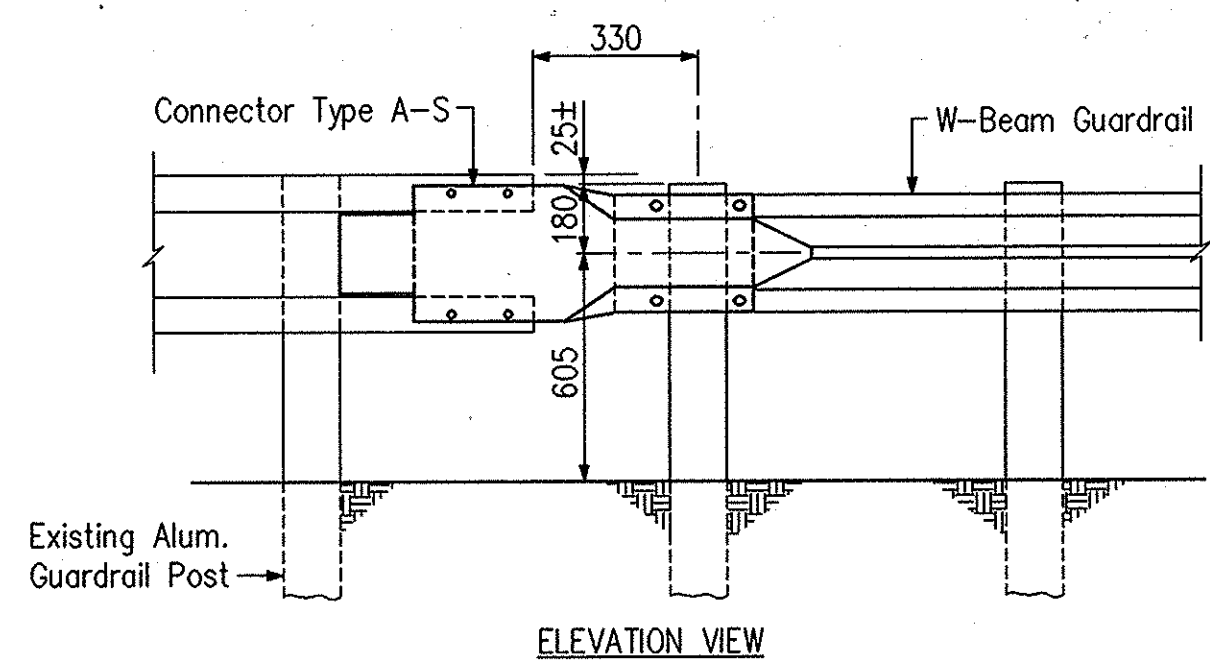
PLOT DATE: 120 JUL 2001
 PLOT TIME: 14:16:26
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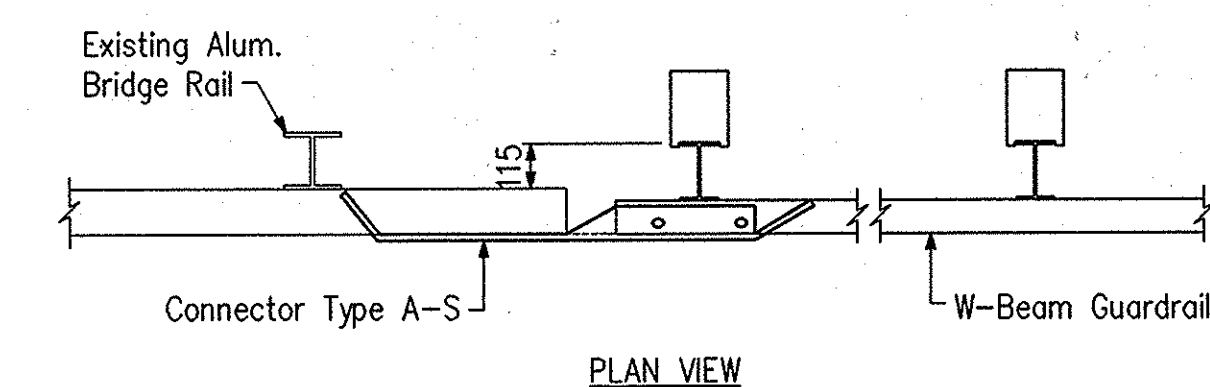
ELEVATION
Scale: 1:50



SECTION A-A
Scale: 1:50



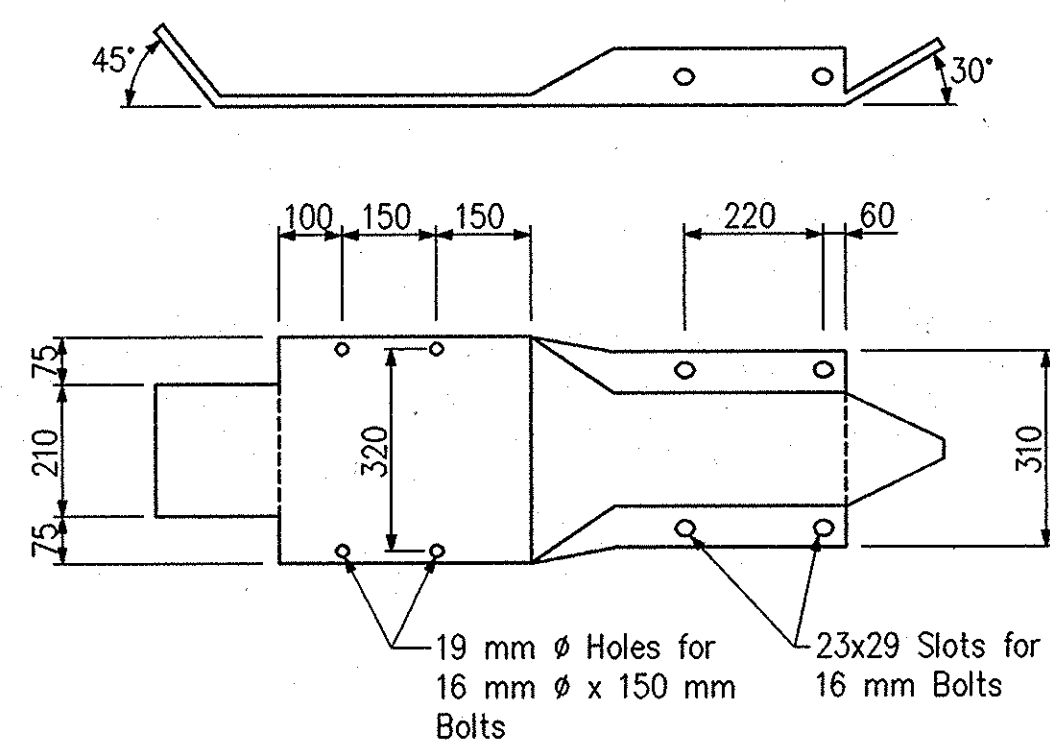
ELEVATION VIEW



PLAN VIEW

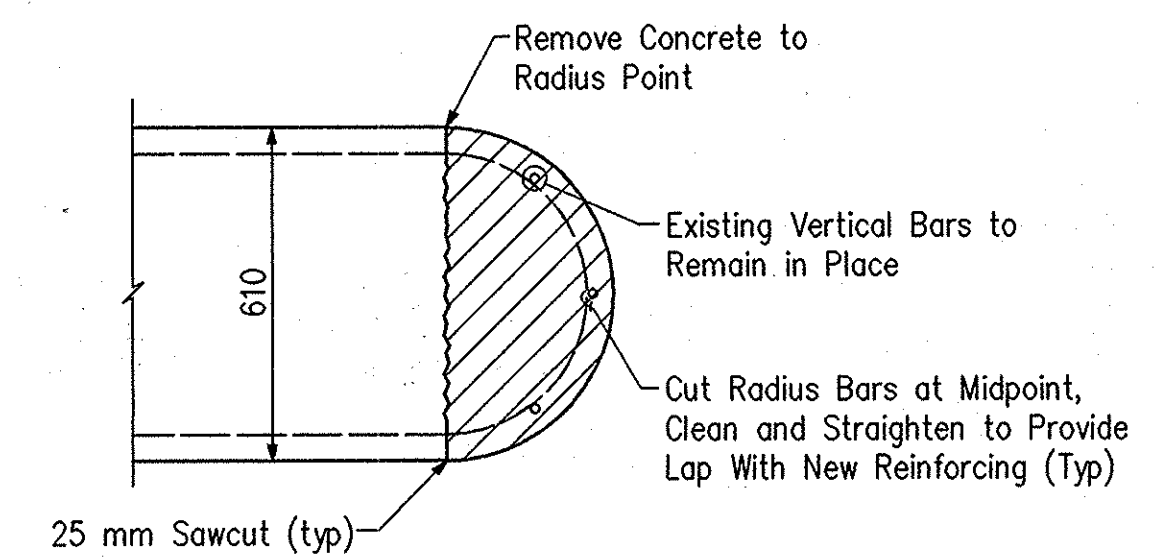
CONNECTION FROM STEEL BEAM GUARD RAIL TO ALUMINUM BRIDGE RAIL

Scale: 1:20



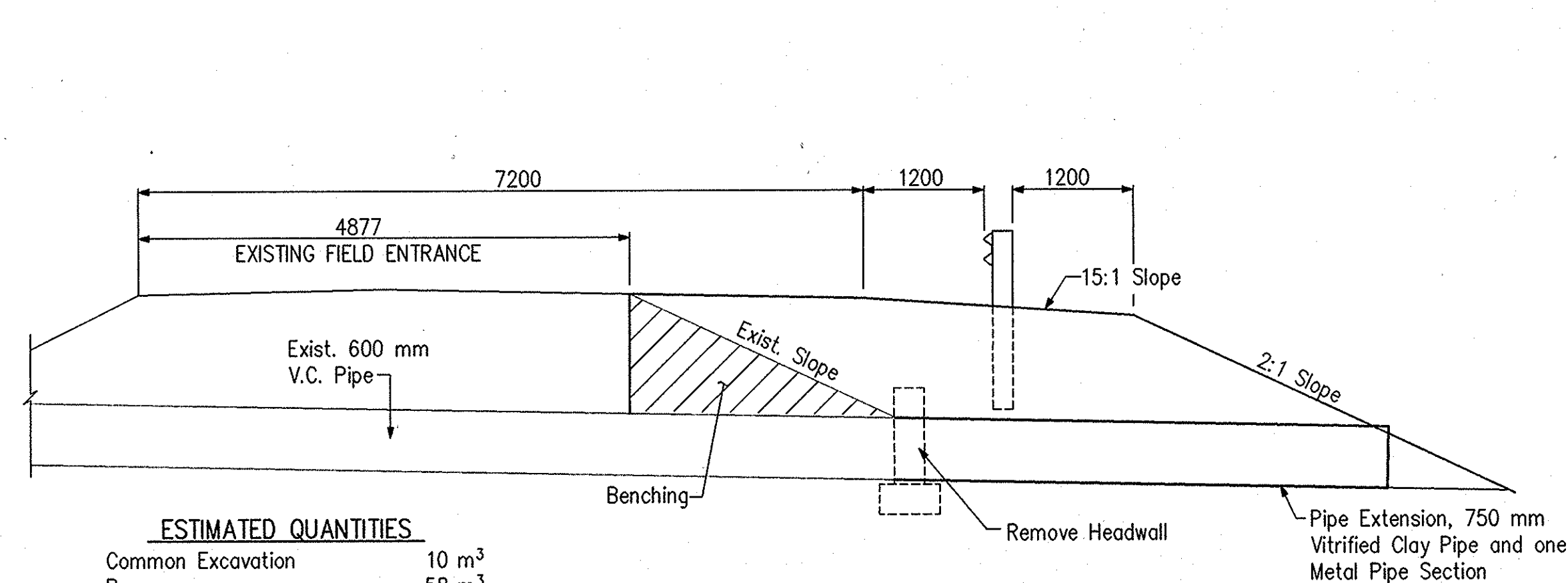
GUARDRAIL CONNECTOR TYPE A-S

Scale: 1:33.3



PLAN PIER STEM REMOVALS

Scale: 1:20

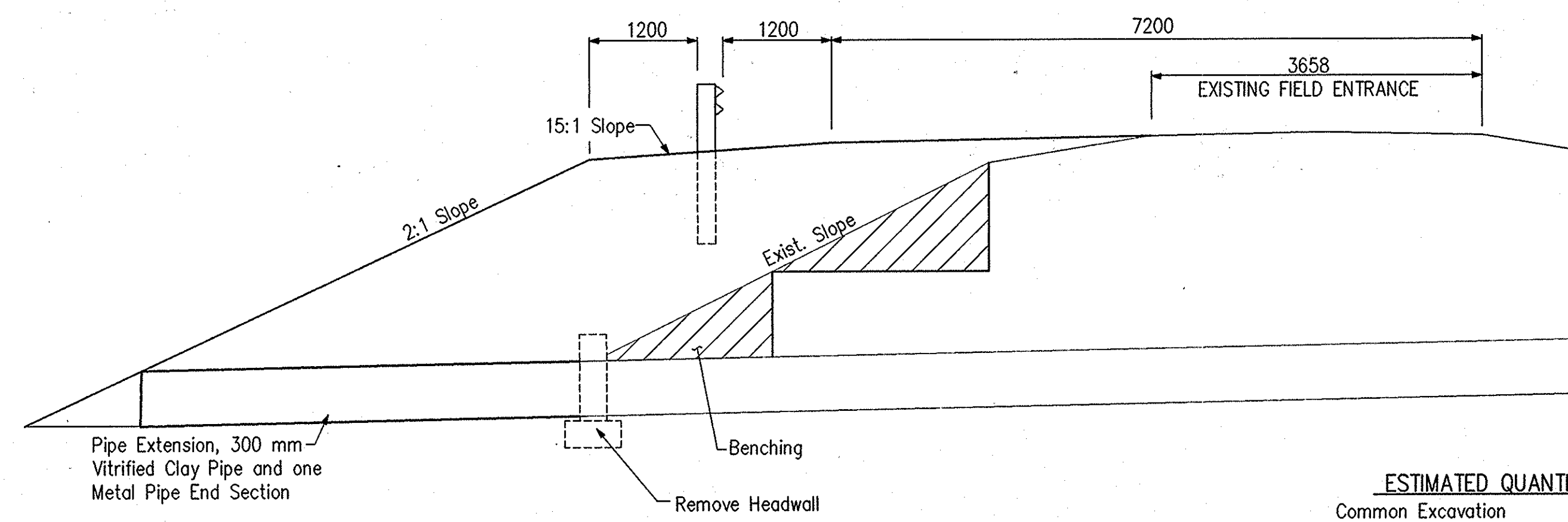


ESTIMATED QUANTITIES

Common Excavation	10 m ³
Borrow	58 m ³
Pipe Extension, 750 mm	6 m
Pipe End Section, 750 mm	1 Each

PIPE EXTENSION DETAIL AT FIELD ENTRANCE STA. 23+026±

Scale: 1:50

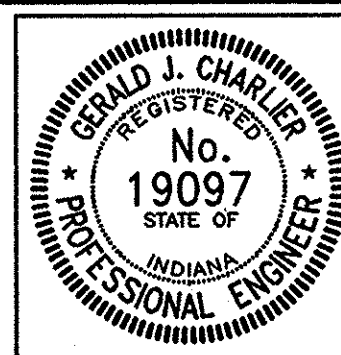


ESTIMATED QUANTITIES

Common Excavation	14 m ³
Borrow	83 m ³
Pipe Extension, 300 mm	5 m
Pipe End Section, 300 mm	1 Each

PIPE EXTENSION DETAIL AT FIELD ENTRANCE STA. 22+052±

Scale: 1:50



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE: 7-20-01

DESIGNED: TWL
DRAWN: TWL
CHECKED: GDL
CHECKED: RGP

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS AND PIERS 2 & 7 REMOVALS

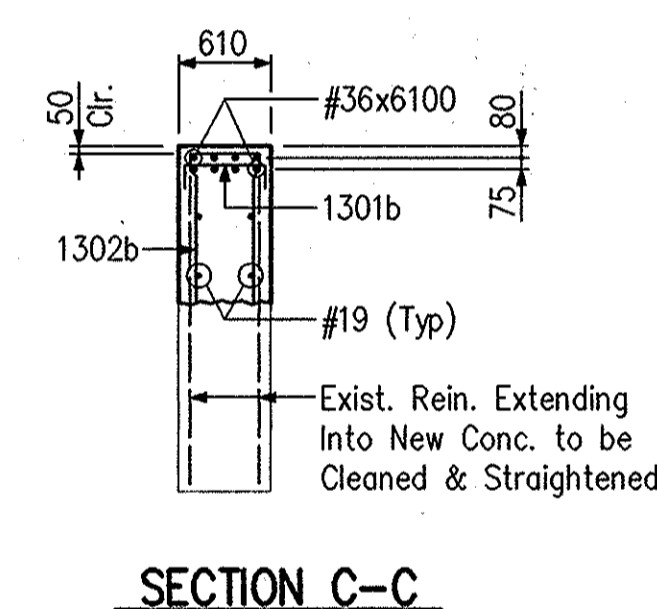
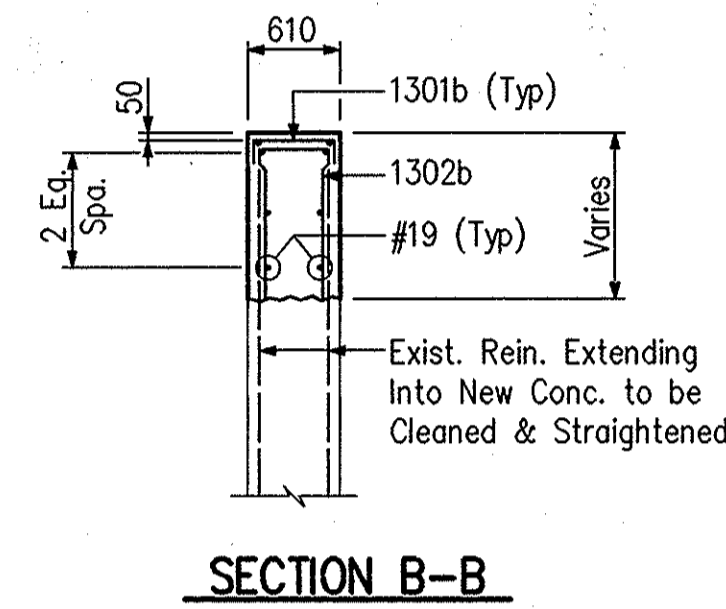
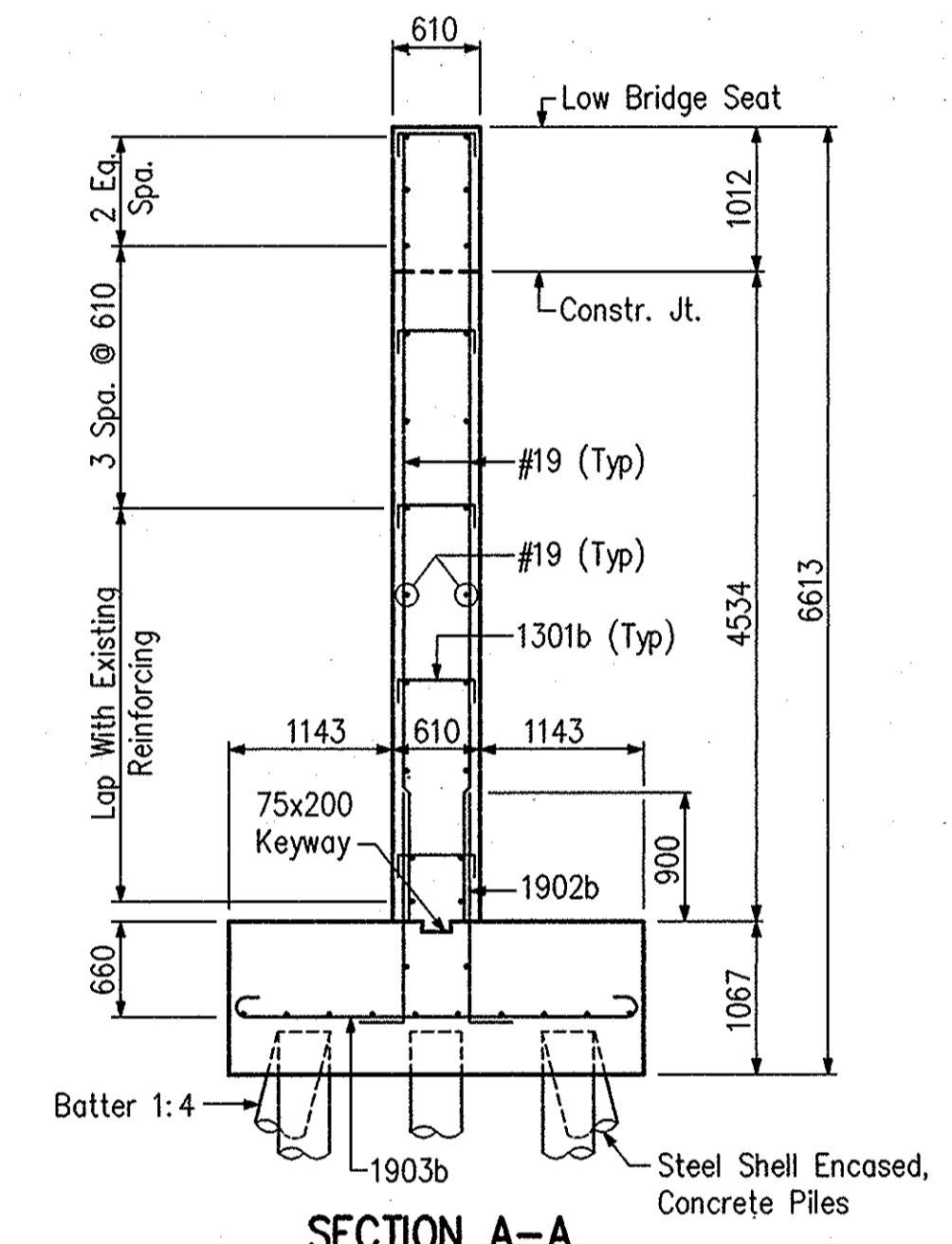
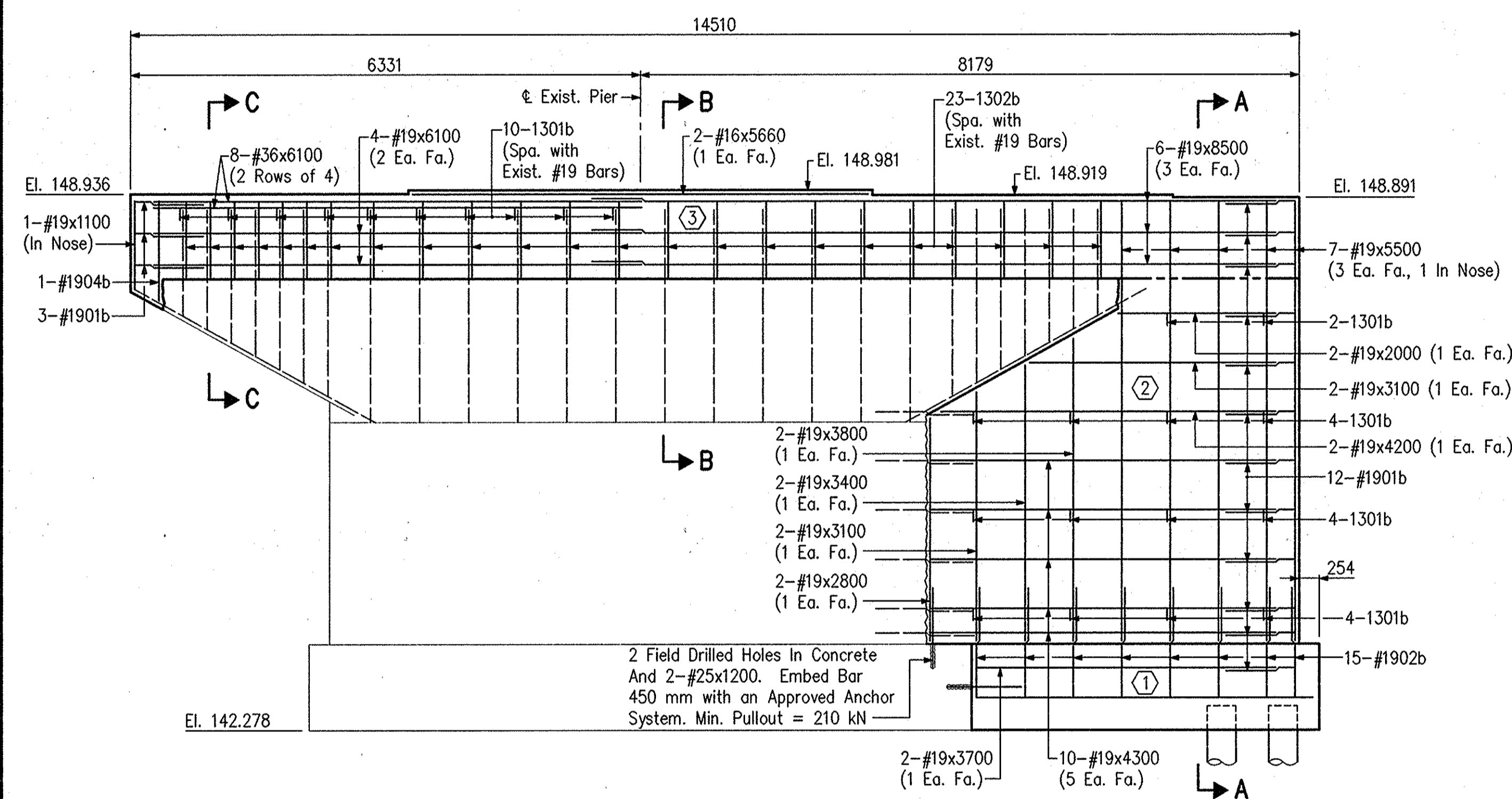
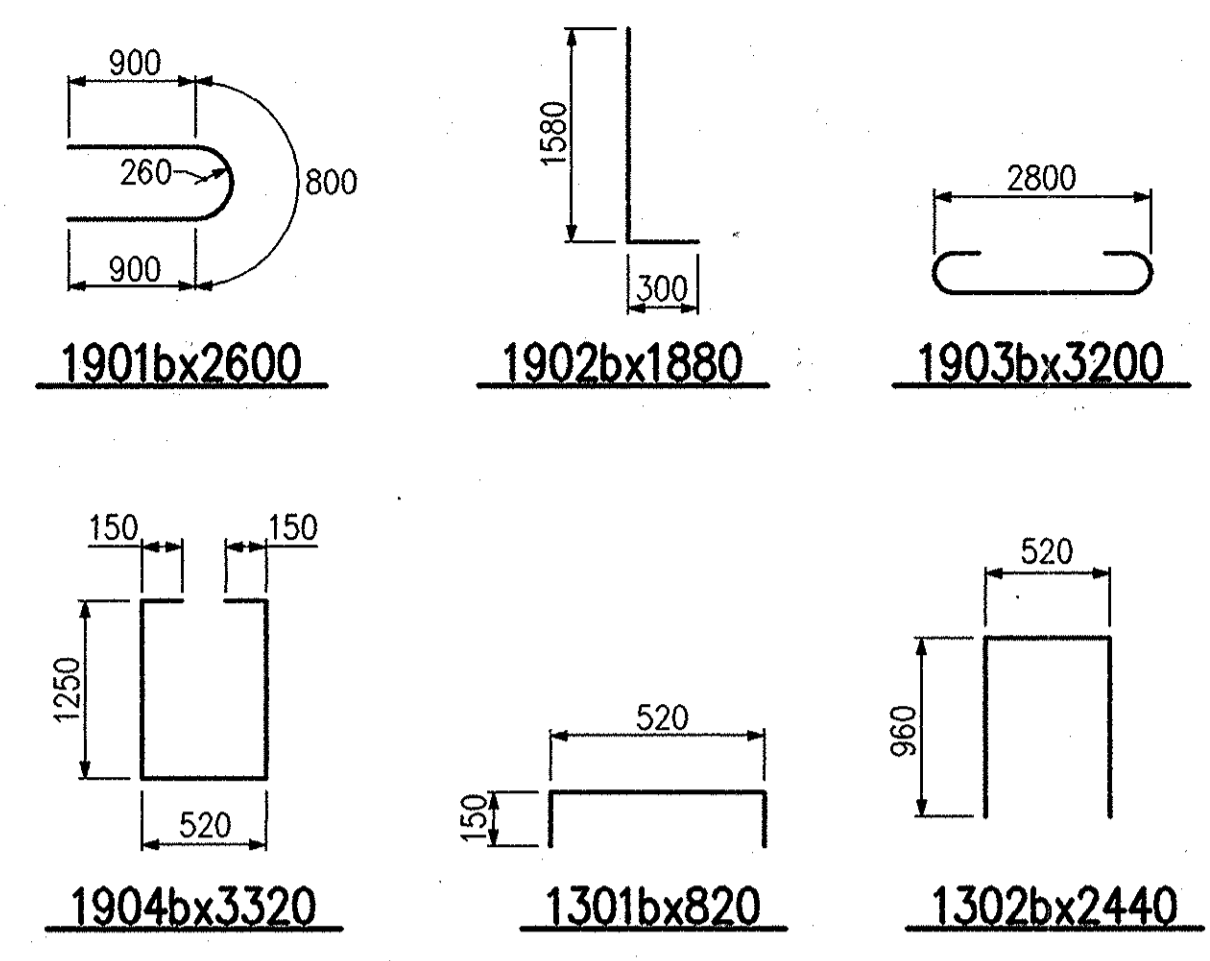
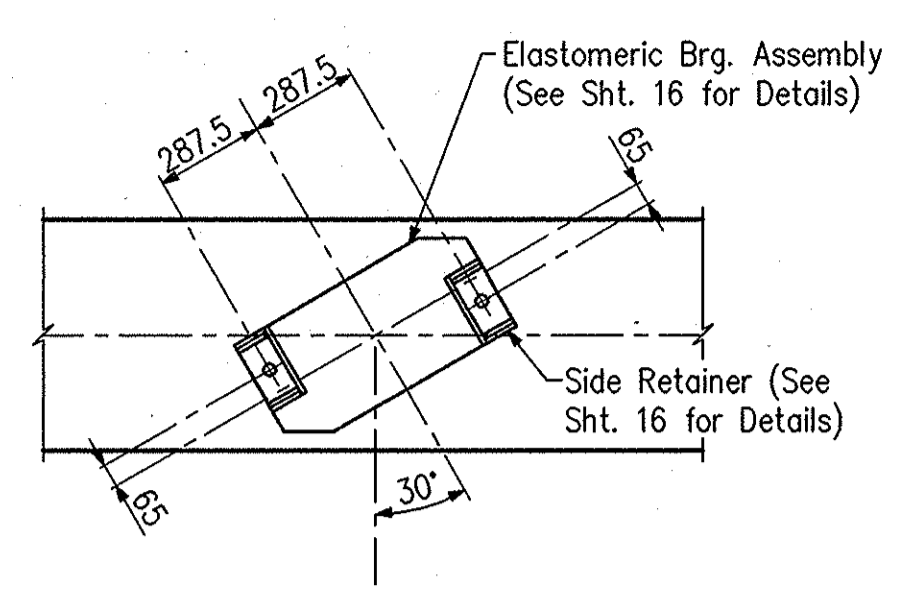
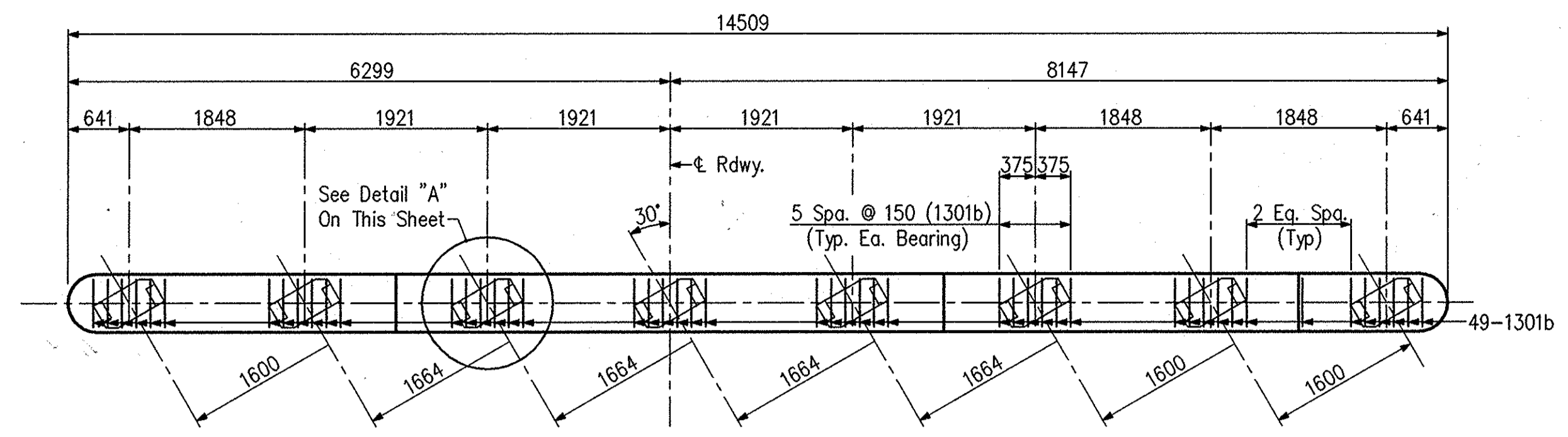
HORIZONTAL SCALE	BRIDGE FILE
1:50	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	7 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

PLOT DATE: 20 JUL 2001
 PLOT TIME: 16:05:43
 PLOT FILE: I:\325PR2A.DWG

BILL OF MATERIALS

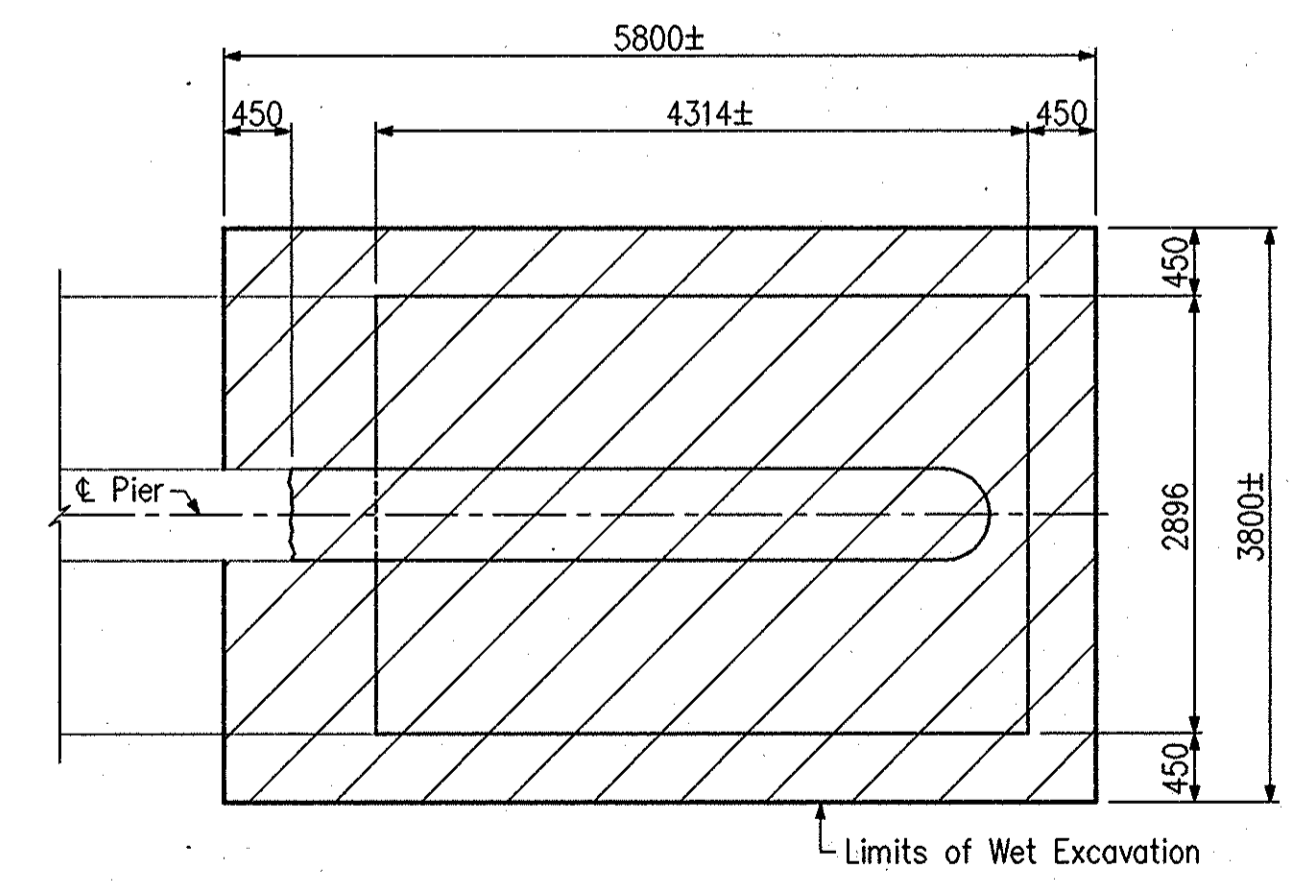
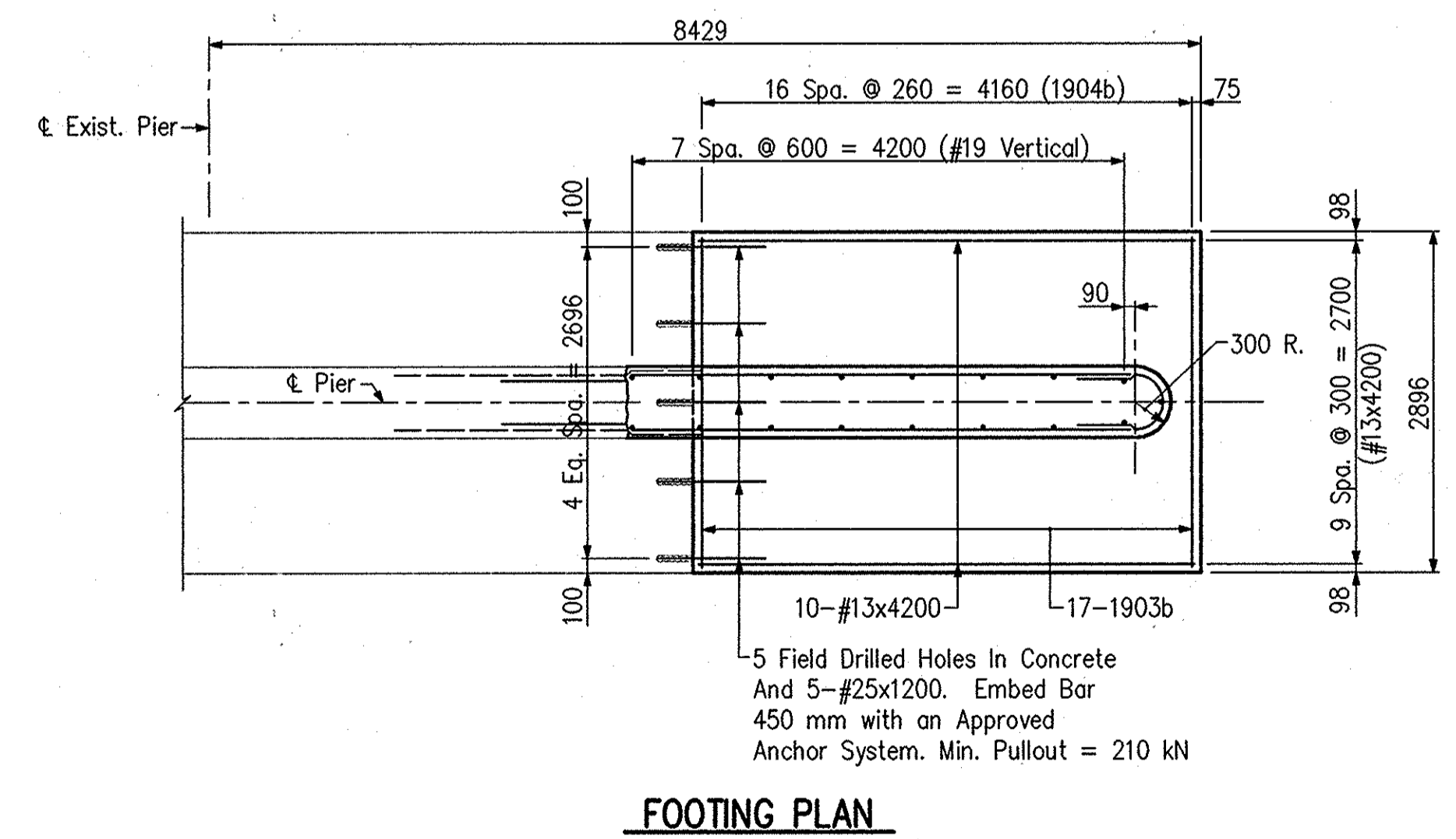
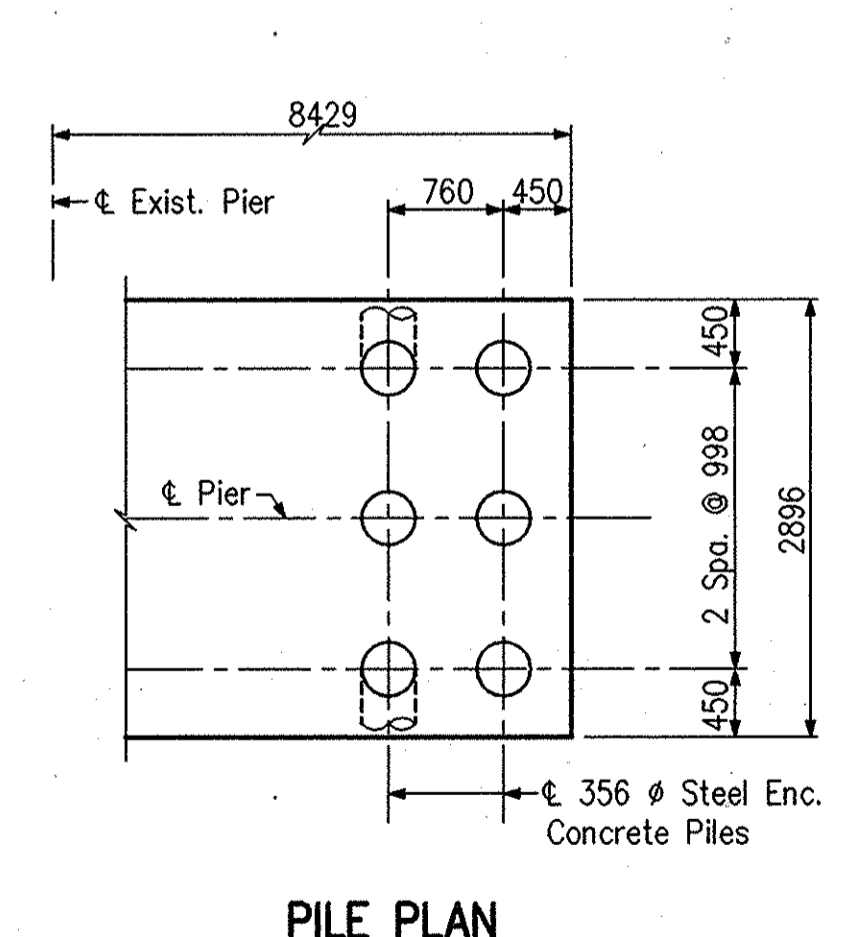
PIER NO. 2

SIZE OR MARK	NO. OF BARS	LENGTH	MASS (kg)
PLAIN REINFORCING			
#36	8	6100	
Total #36 Bars			386
#25	7	1200	
Total #25 Bars			33
1901b	15	2600	
1902b	15	1880	
1903b	17	3200	
1904b	1	3320	
#19	6	8500	
#19	4	6100	
#19	2	5660	
#19	7	5500	
#19	10	4300	
#19	2	4200	
#19	2	3800	
#19	2	3700	
#19	2	3400	
#19	4	3100	
#19	2	2800	
#19	2	2000	
#19	1	1100	
Total #19 Bars			774
1301b	74	820	
1302b	23	2440	
#13	10	4200	
Total #13 Bars			158
Total Plain Reinforcing Steel			1351
CONCRETE			
Concrete, A, In Substructure			
Pour No. 2	10.2	m ³	
Pour No. 3	9.3	m ³	
Concrete, A, In Substructure			
	19.5	m ³	
Concrete, B, In Footings (Pour No. 1)			
	13.3	m ³	
MISCELLANEOUS			
6-Piles, Conc., Steel Shell Encased, 5.31 mm, 356 mm (10.5 m Each)	63	m	
Field Drilled Holes in Concrete	7	Each	
Elastomeric Bearing Assemblies	8	Each	
B Borrow for Structure Backfill	30	m ³	

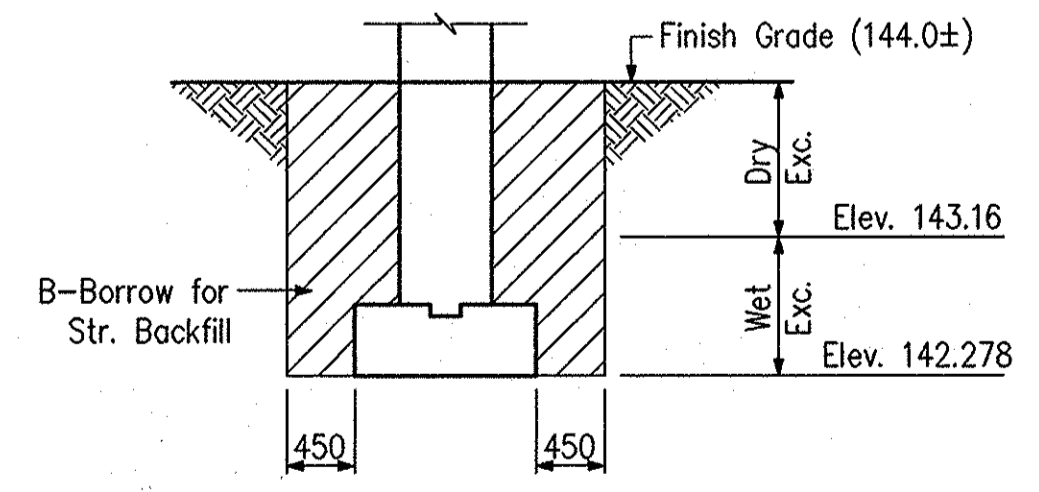


NOTES

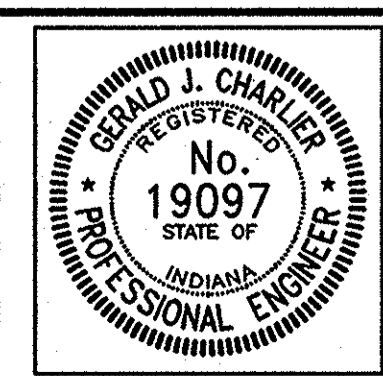
- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
- Existing reinforcing steel to remain in place shall be cleaned and straightened.
- ⊗ Indicates Concrete Pour Number
- For Bearing Assembly & Side Retainer Details, See Sht. 16.
- Minimum lap for #19 Bars is 700 mm.
- For removal details, see sheet 7.



Wet Exc.: 3.8x5.8x(143.160-142.278) - (1x2.896x1.067) = 16 m³
 Dry Exc.: 3.8x5.8x(144.0(±)-143.16) = 19 m³



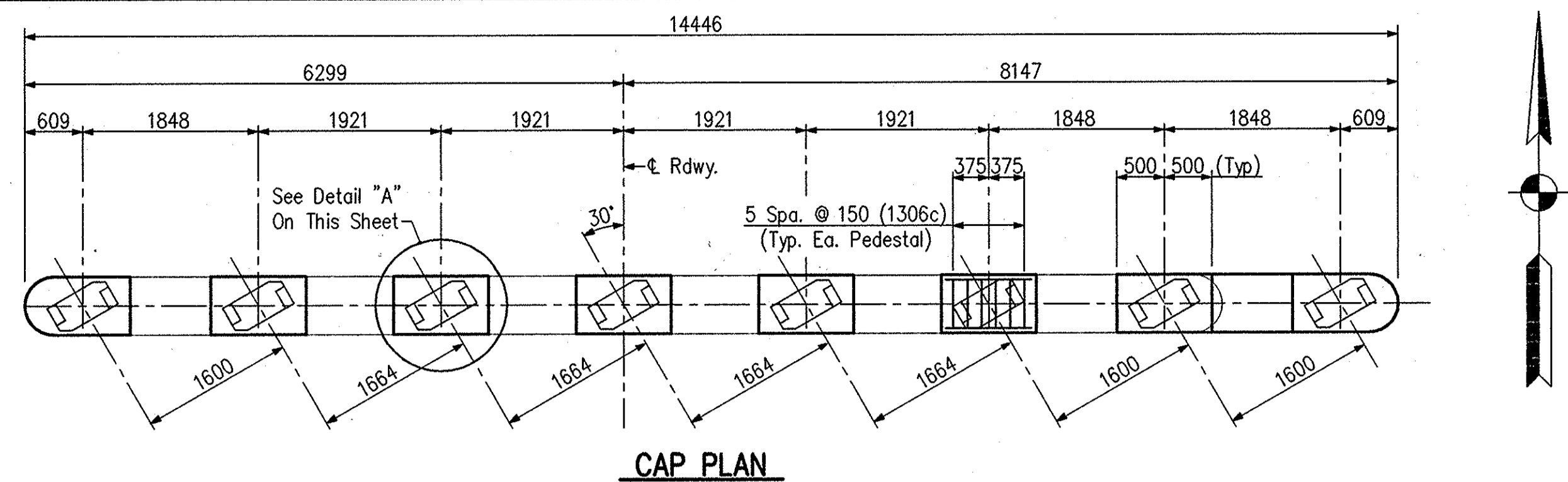
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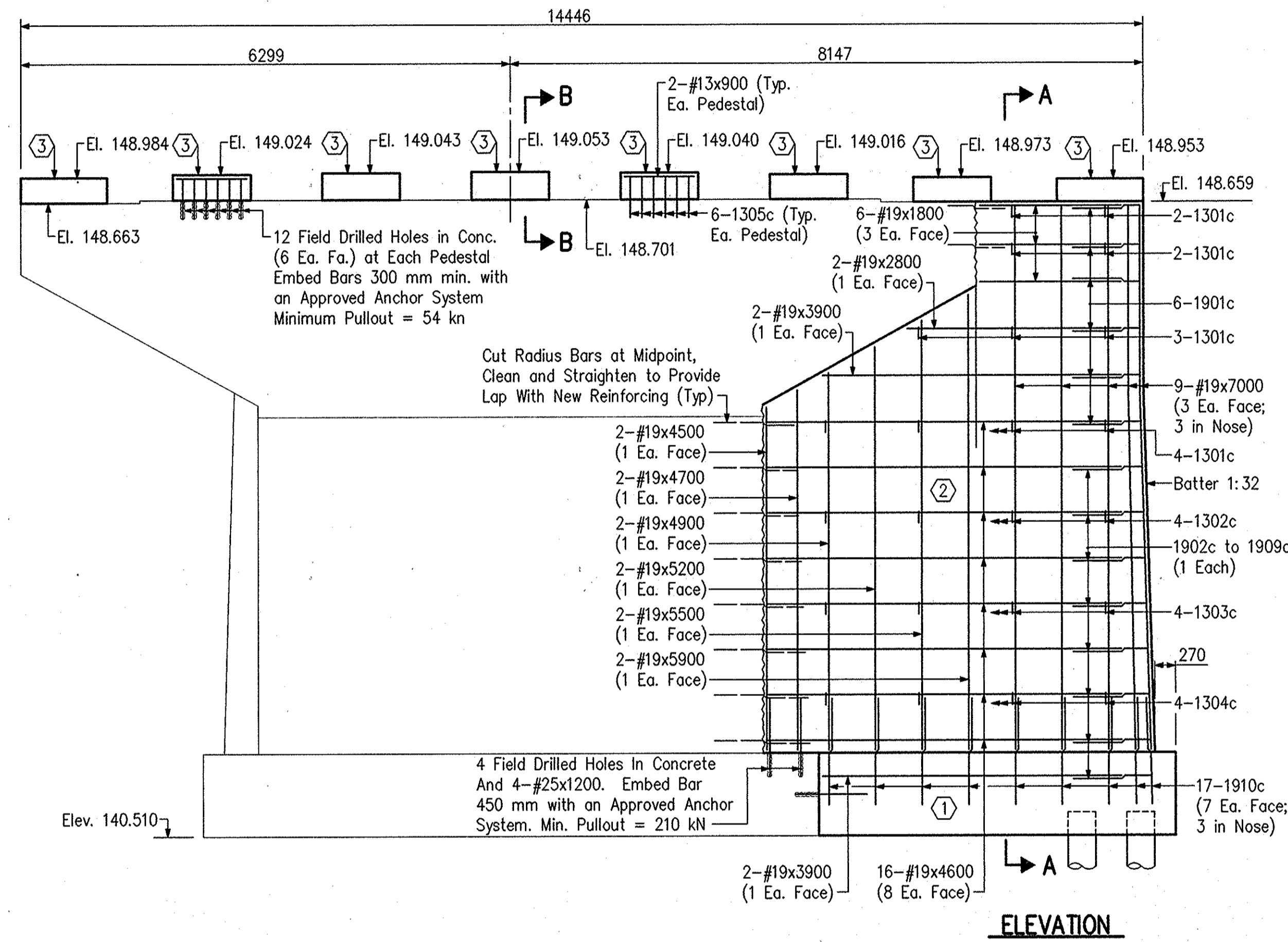
RECOMMENDED FOR APPROVAL: *Gerald J. Charles*
 DESIGN ENGINEER
 DATE: 7-20-01
 DESIGNED: JCH
 DRAWN: TWL
 CHECKED: GDL
 CHECKED: RGP

INDIANA DEPARTMENT OF TRANSPORTATION
 PIER NO. 2 DETAILS

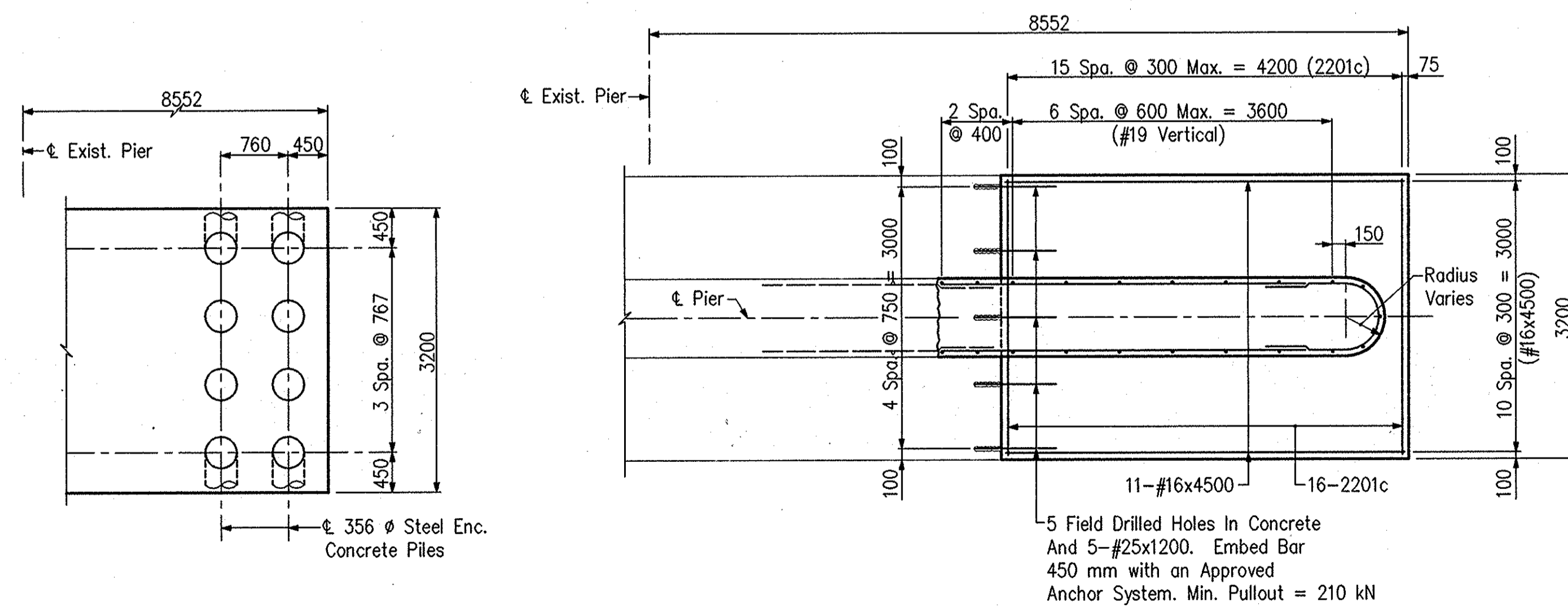
HORIZONTAL SCALE	BRIDGE FILE
1:50	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	8 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()



CAP PLAN

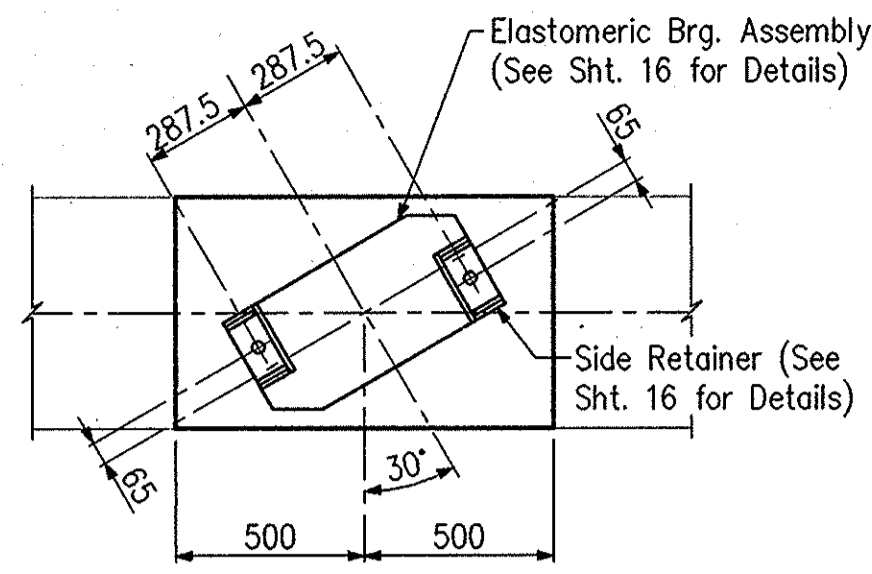


ELEVATION



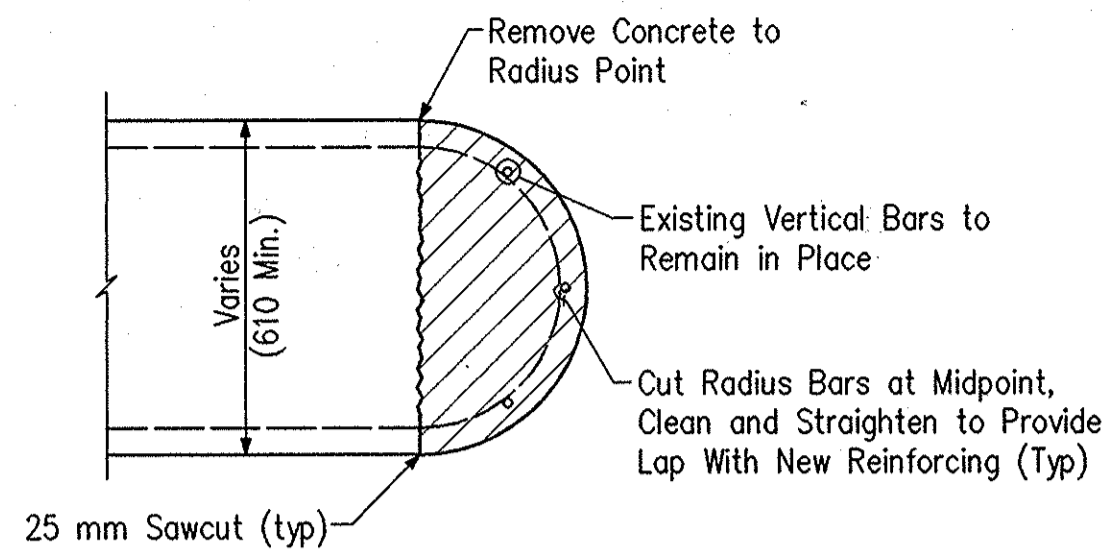
PILE PLAN

FOOTING PLAN



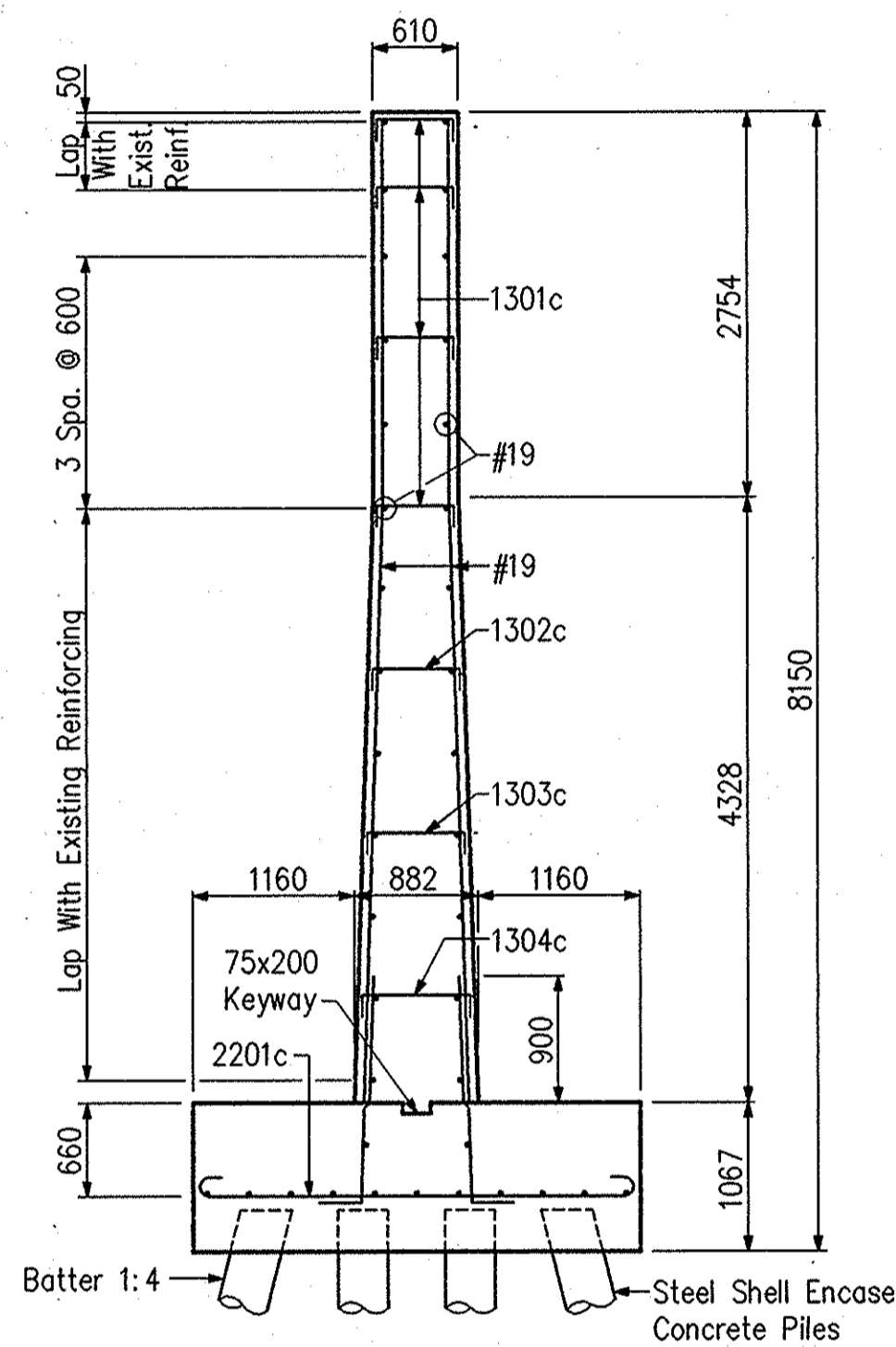
DETAIL "A"

Scale: 1:20

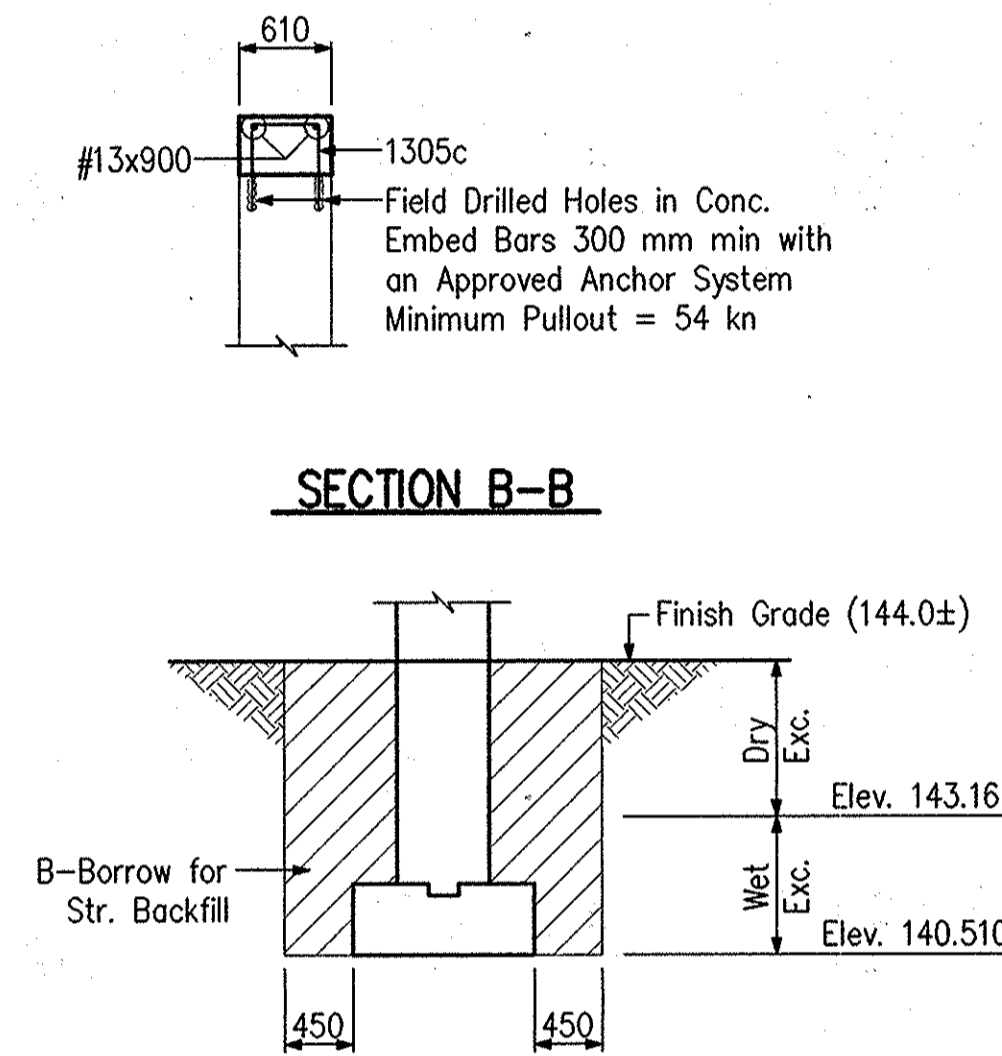


PIER CAP & STEM REMOVALS

Scale: 1:20



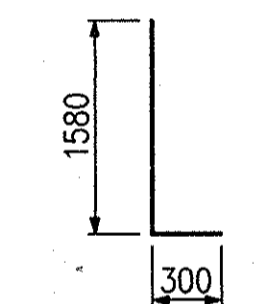
SECTION A-A



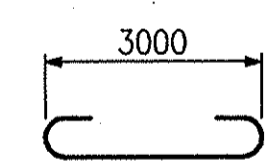
SECTION B-B

SUBSTRUCTURE EXCAVATION AND BACKFILL DETAIL

No Scale



1910cx1880



2201cx3500

Mark	A	B	R	Length
1901c	740	900	236	2540
1902c	800	900	526	2600
1903c	858	901	273	2660
1904c	914	903	292	2720
1905c	978	901	311	2780
1906c	1036	902	329	2840
1907c	1086	907	346	2900
1908c	1150	905	365	2960
1909c	1194	903	379	3000

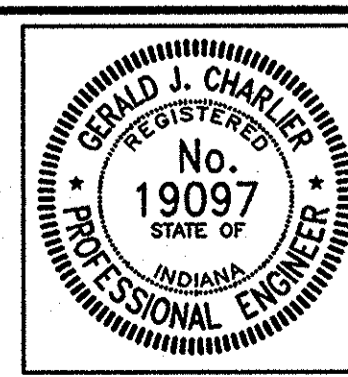
BILL OF MATERIALS

Pier No. 3

REINFORCING STEEL			
SIZE OR MARK	NO. OF BARS	LENGTH	MASS (kg)
PLAIN REINFORCING			
#25	9	1200	
Total #25 Bars			43
2201c	16	3500	
Total #22 Bars			170
1901c	1	2540	
1902c	1	2600	
1903c	1	2660	
1904c	1	2720	
1905c	1	2780	
1906c	1	2840	
1907c	1	2900	
1908c	1	2960	
1909c	1	3000	
1910c	17	1880	
#19	9	7000	
#19	2	5900	
#19	2	5500	
#19	2	5200	
#19	2	4900	
#19	2	4700	
#19	16	4600	
#19	2	4500	
#19	4	3900	
#19	2	2800	
#19	6	1800	
Total #19 Bars			641
#16	11	4500	
Total #16 Bars			77
1301c	11	820	
1302c	4	900	
1303c	4	960	
1304c	4	1040	
1305c	48	1700	
#13	16	900	
Total #13 Bars			116
Total Plain Reinforcing Steel			1047
CONCRETE			
Concrete, A, In Substructure			
Pour No. 2		20.7 m ³	
Pour No. 3		1.6 m ³	
Total Concrete, A, In Substructure		22.3 m ³	
Concrete, B, Footings (Pour No. 1)		15.7 m ³	
MISCELLANEOUS			
8-Piles, Conc., Steel Shell Encased, 5.31 mm, 356 mm (10 m Each)			80 m
Field Drilled Holes in Concrete			91 Each
Elastomeric Bearing Assemblies			8 Each
B-Borrow for Structure Backfill			38 m ³

NOTES

- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
- Existing reinforcing steel to remain in place shall be cleaned and straightened.
- (X) Indicates Concrete Pour Number
- For Bearing Assembly & Side Retainer Details, See Sht. 16.
- Minimum lap for #19 Bars is 700 mm.

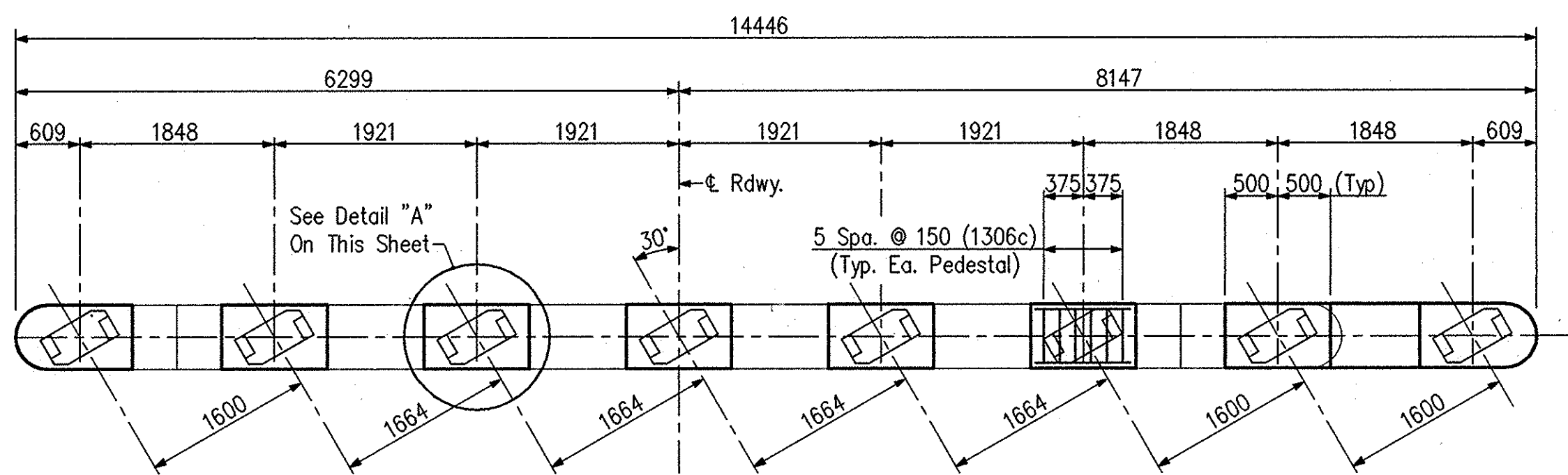


RECOMMENDED FOR APPROVAL: *[Signature]* 7-20-01 DATE
 DESIGN ENGINEER
 DESIGNED: JCH DRAWN: TWL
 CHECKED: GDL CHECKED: RGP

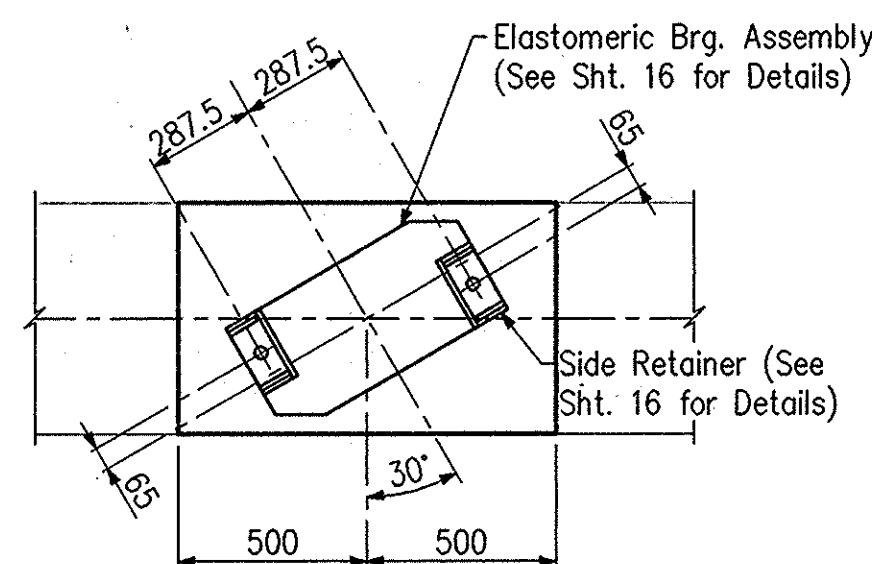
INDIANA DEPARTMENT OF TRANSPORTATION
PIER NO. 3 DETAILS

HORIZONTAL SCALE 1:50	BRIDGE FILE 63-83-4323C
VERTICAL SCALE	DESIGNATION 9900540
SURVEY BOOK B 25754	SHEETS 9 of 22
	PROJECT NH-017-9()

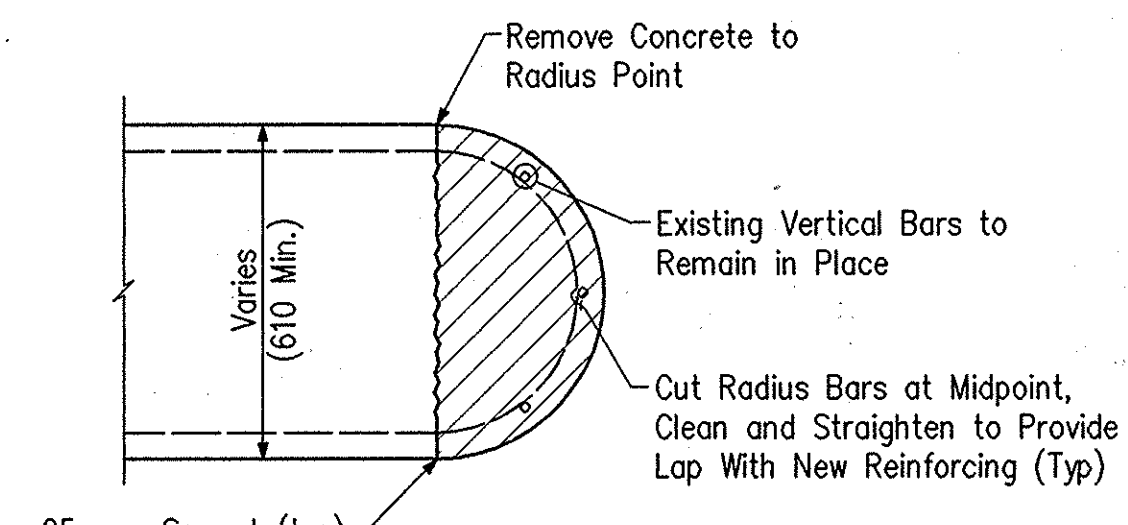
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 PLOT DATE: 20 JUL 2001
 PLOT TIME: 16:04:04
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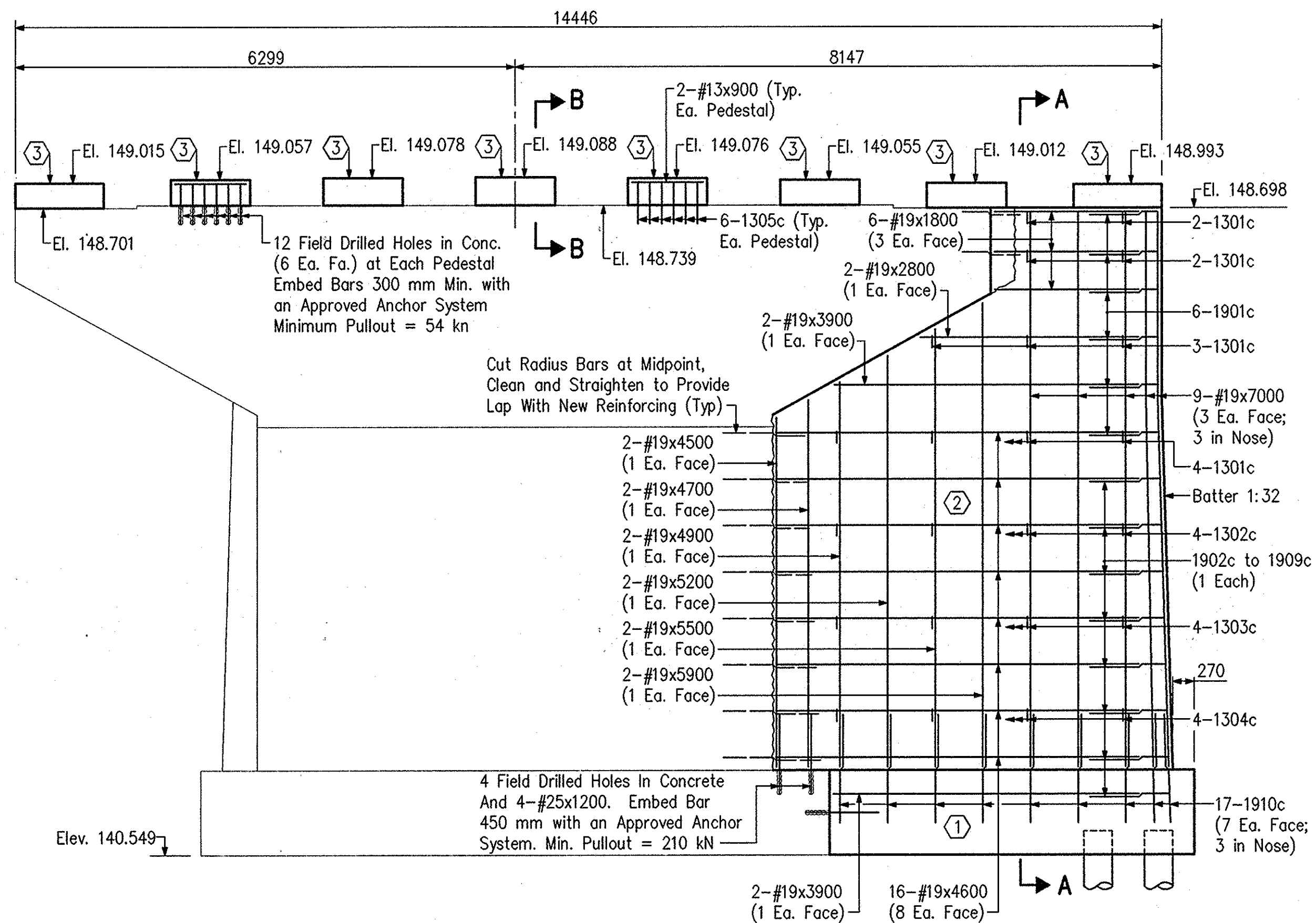
CAP PLAN



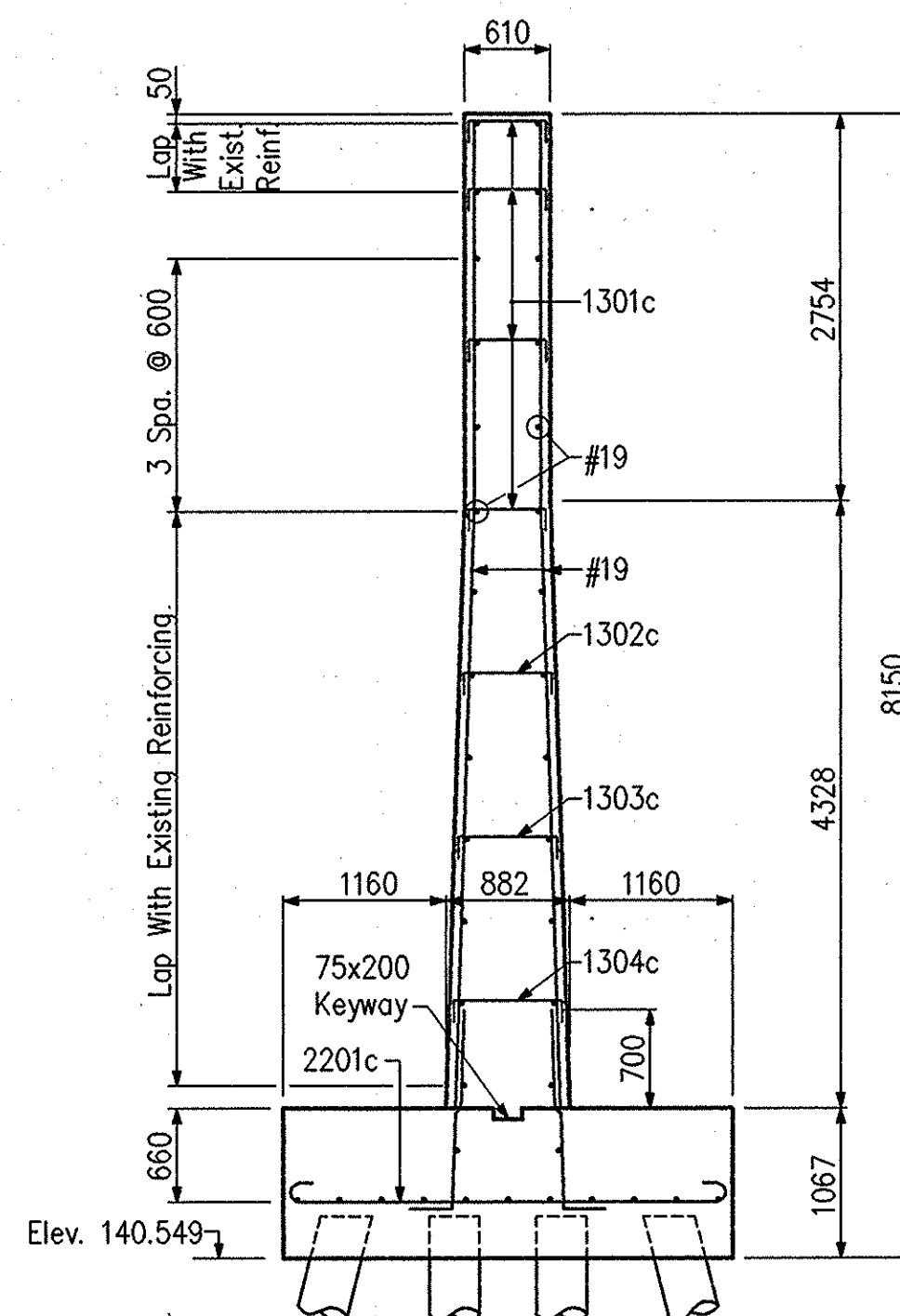
DETAIL "A"



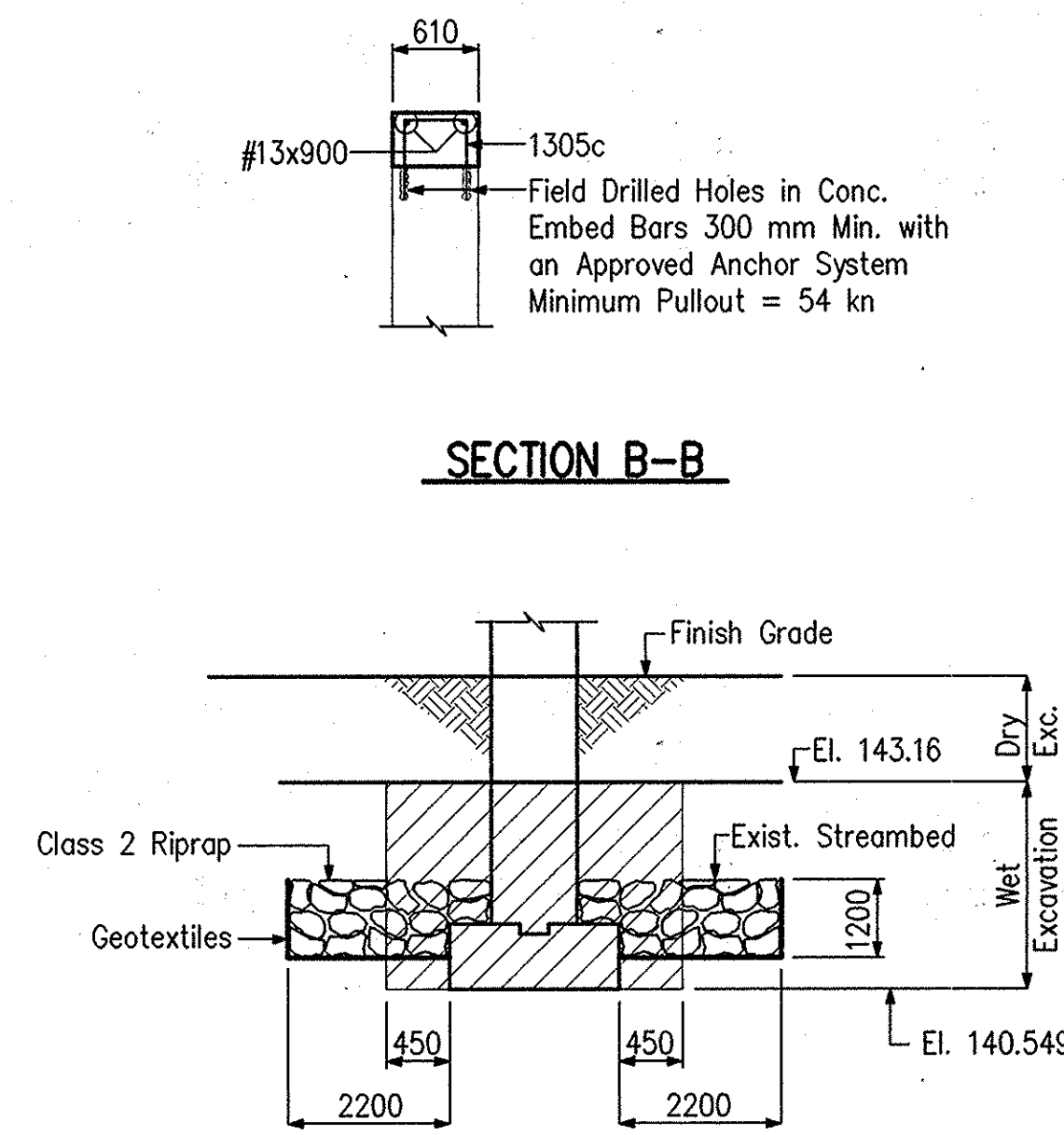
PIER CAP & STEM REMOVALS



ELEVATION



SECTION A-A



SECTION B-B

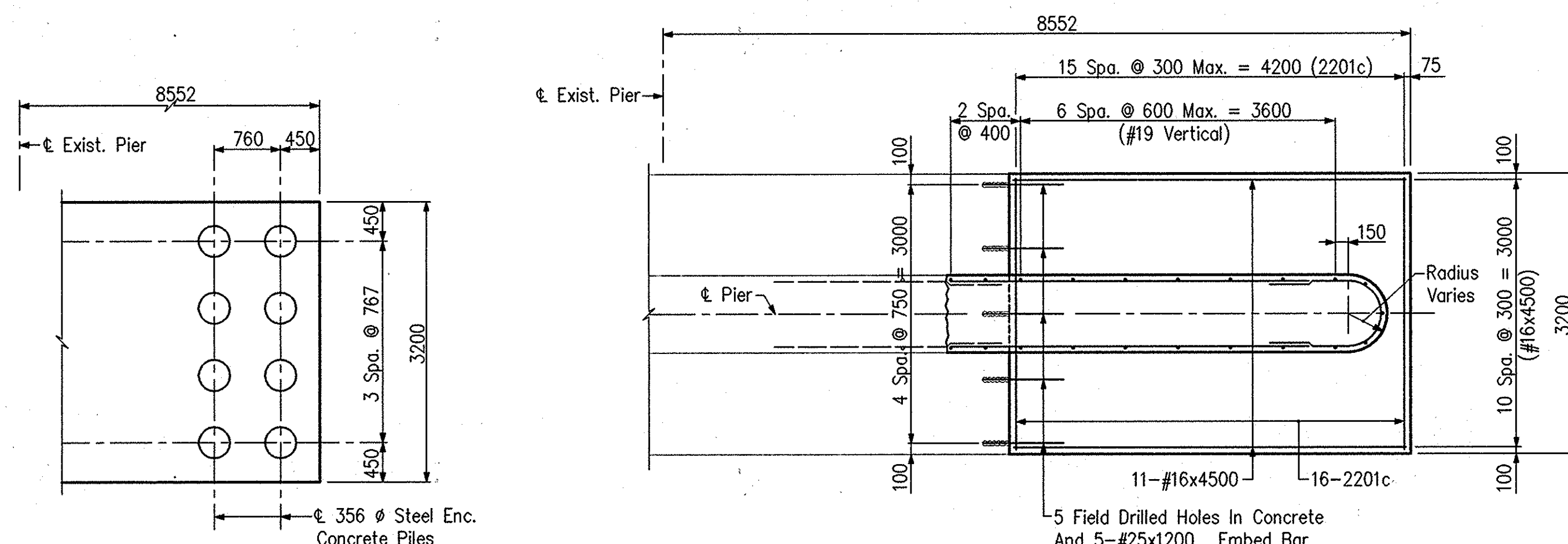
SUBSTRUCTURE EXCAVATION AND BACKFILL DETAIL

- No Scale
- Indicates Wet Excavation
 - Indicates Class 2 Riprap (See Special Provisions)

BILL OF MATERIALS

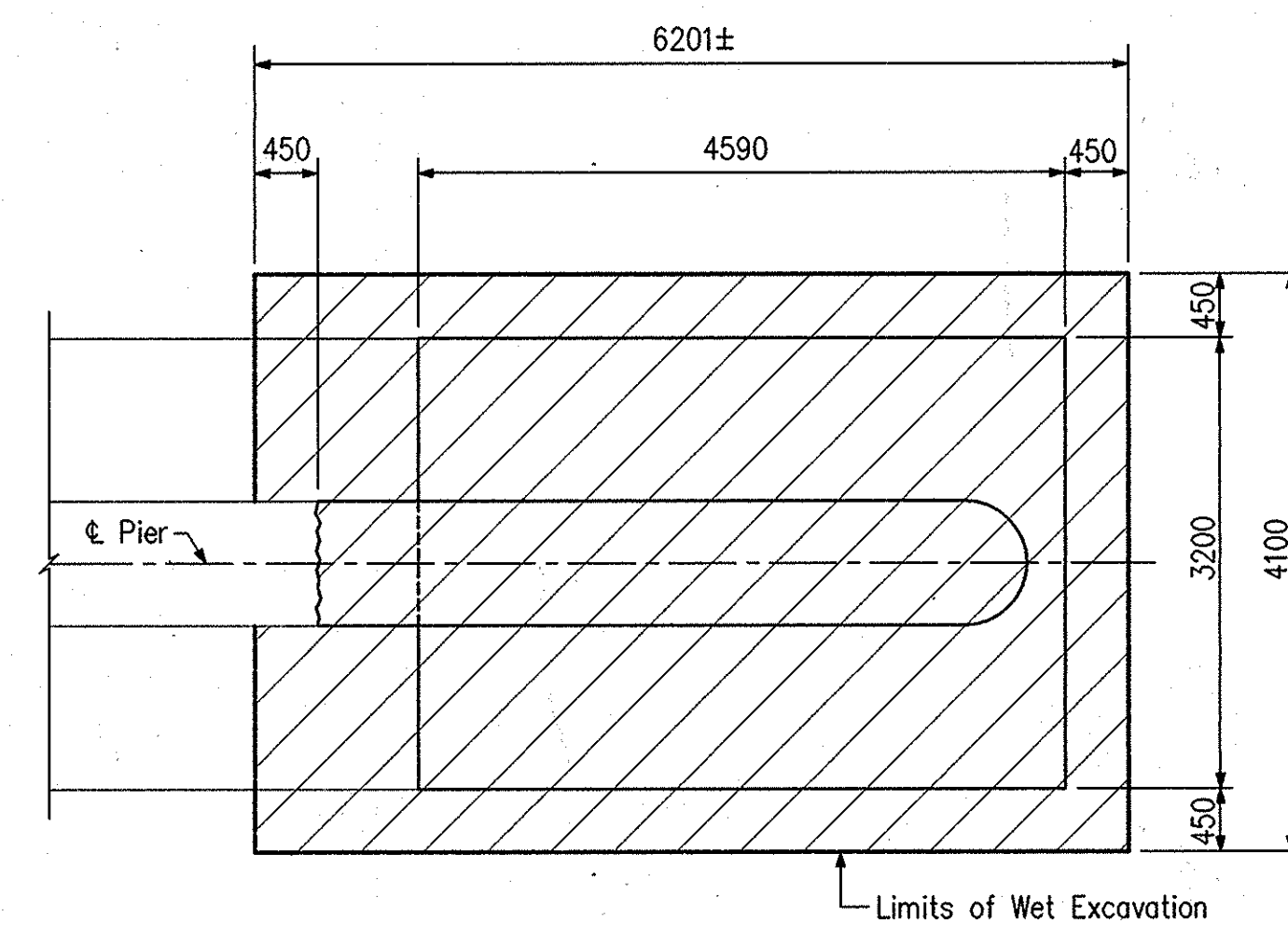
Pier No. 4

REINFORCING STEEL			
SIZE OR MARK	NO. OF BARS	LENGTH	MASS (kg)
PLAIN REINFORCING			
#25	9	1200	
Total #25 Bars			43
2201c	16	3500	
Total #22 Bars			170
1901c	1	2540	
1902c	1	2600	
1903c	1	2660	
1904c	1	2720	
1905c	1	2780	
1906c	1	2840	
1907c	1	2900	
1908c	1	2960	
1909c	1	3000	
1910c	17	1880	
#19	9	7000	
#19	2	5900	
#19	2	5500	
#19	2	5200	
#19	2	4900	
#19	2	4700	
#19	16	4600	
#19	2	4500	
#19	4	3900	
#19	2	2800	
#19	6	1800	
Total #19 Bars			641
#16	11	4500	
Total #16 Bars			77
1301c	11	820	
1302c	4	900	
1303c	4	960	
1304c	4	1040	
1305c	48	1700	
#13	16	900	
Total #13 Bars			116
Total Plain Reinforcing Steel			1047
CONCRETE			
Concrete, A, In Substructure			
Pour No. 2		20.7 m ³	
Pour No. 3		1.6 m ³	
Total Concrete, A, In Substructure		22.3 m ³	
Concrete, B, Footings (Pour No. 1)			
		15.7 m ³	
MISCELLANEOUS			
8-Piles, Conc., Steel Shell Encased, 5.31 mm, 356 mm (10 m Each)			
		80 m	
Field Drilled Holes in Concrete			
		91 Each	
Elastomeric Bearing Assemblies			
		8 Each	

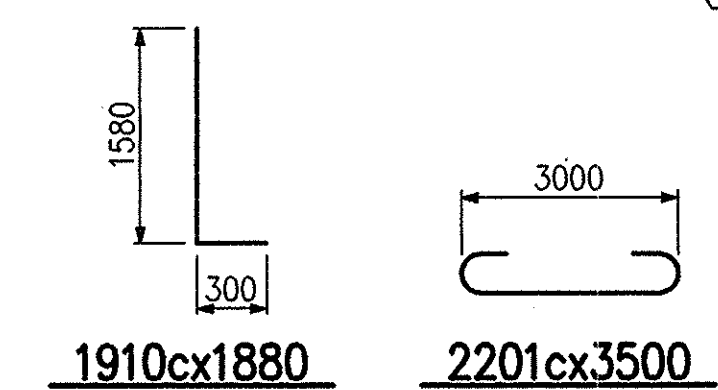


PILE PLAN

FOOTING PLAN



EXCAVATION PLAN

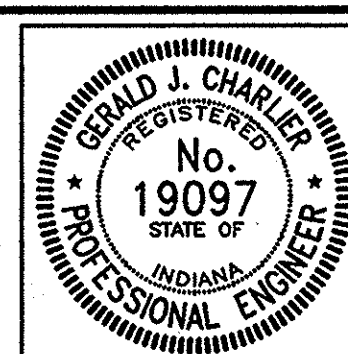


Mark	X	Y	Length
1301c	520	150	820
1302c	600	150	900
1303c	660	150	960
1304c	740	150	1040
1305c	440	630	1700

NOTES

- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
- Existing reinforcing steel to remain in place shall be cleaned and straightened.
- ⊗ Indicates Concrete Pour Number
- For Bearing Assembly & Side Retainer Details, See Sht. 16.
- Minimum lap for #19 Bars is 700 mm.

Mark	Length		
	A	B	C
1901c	740	900	236
1902c	800	900	526
1903c	858	901	273
1904c	914	903	292
1905c	978	901	311
1906c	1036	902	329
1907c	1086	907	346
1908c	1150	905	365
1909c	1194	903	379



RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER
 7-20-01
 DATE

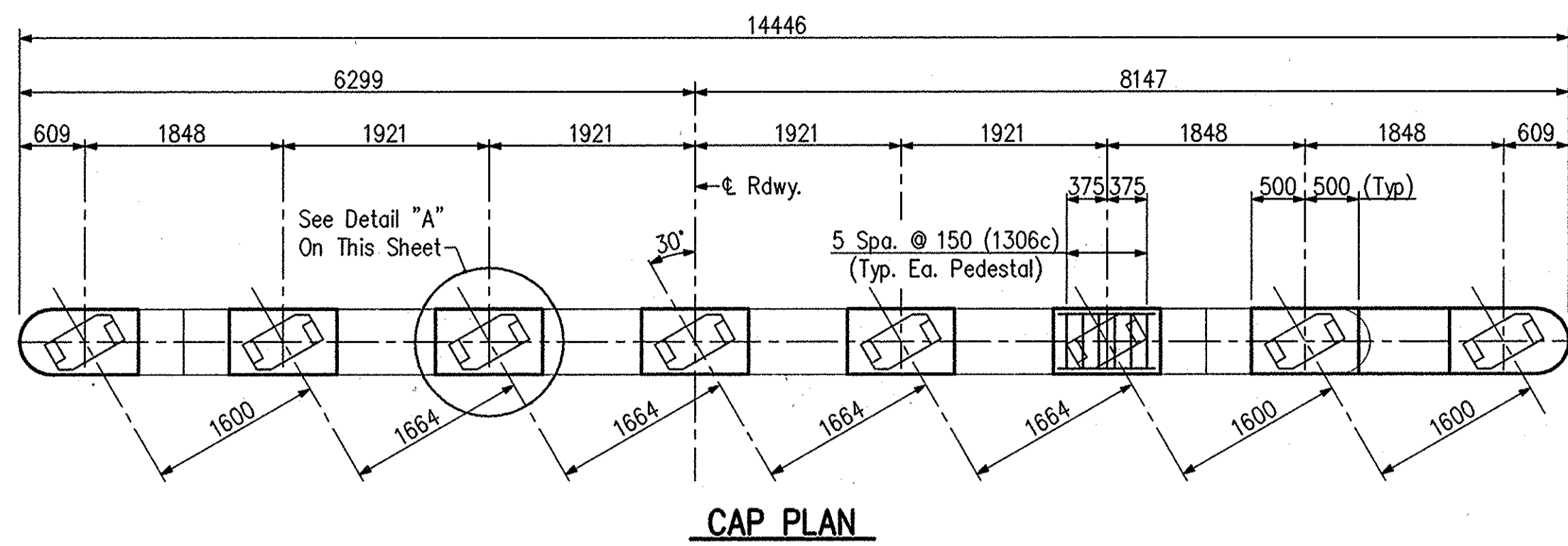
DESIGNED: JCH DRAWN: TWL
 CHECKED: GDL CHECKED: RGP

INDIANA DEPARTMENT OF TRANSPORTATION

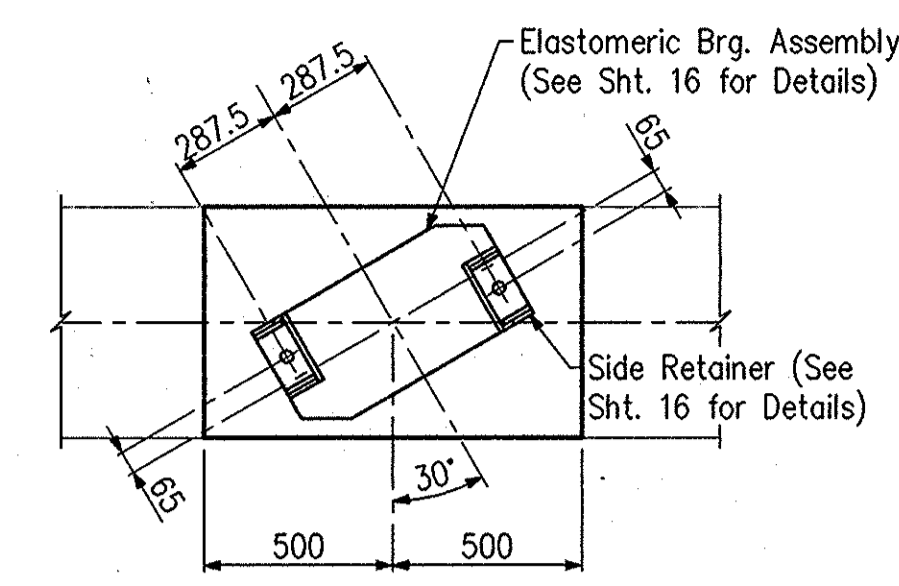
PIER NO. 4 DETAILS

HORIZONTAL SCALE 1:50	BRIDGE FILE 63-83-4323C
VERTICAL SCALE	DESIGNATION 9900540
SURVEY BOOK	SHEETS 10 of 22
CONTRACT B 25754	PROJECT NH-017-9()

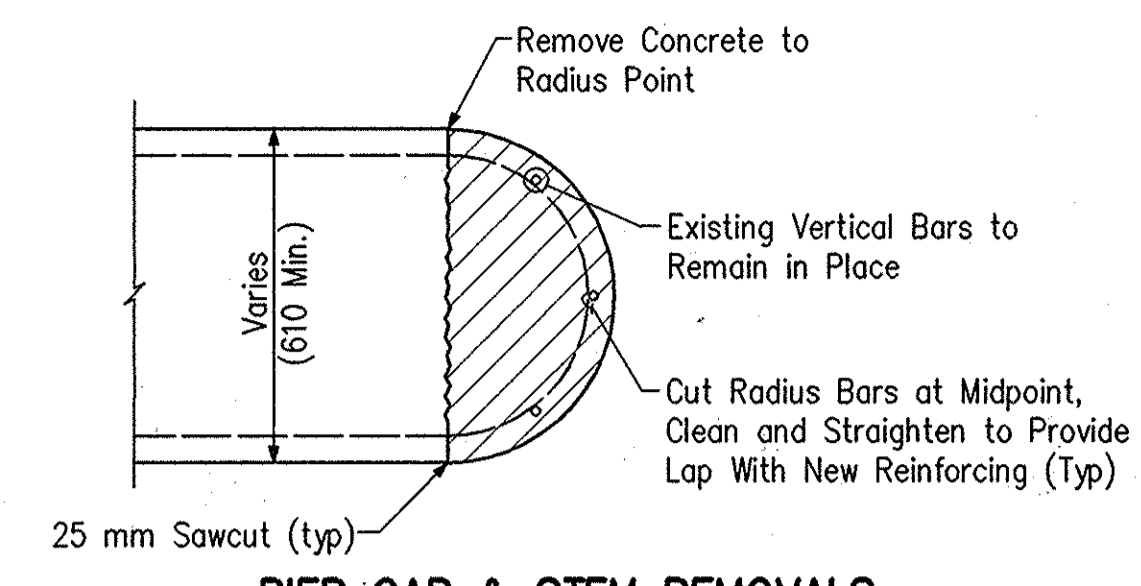
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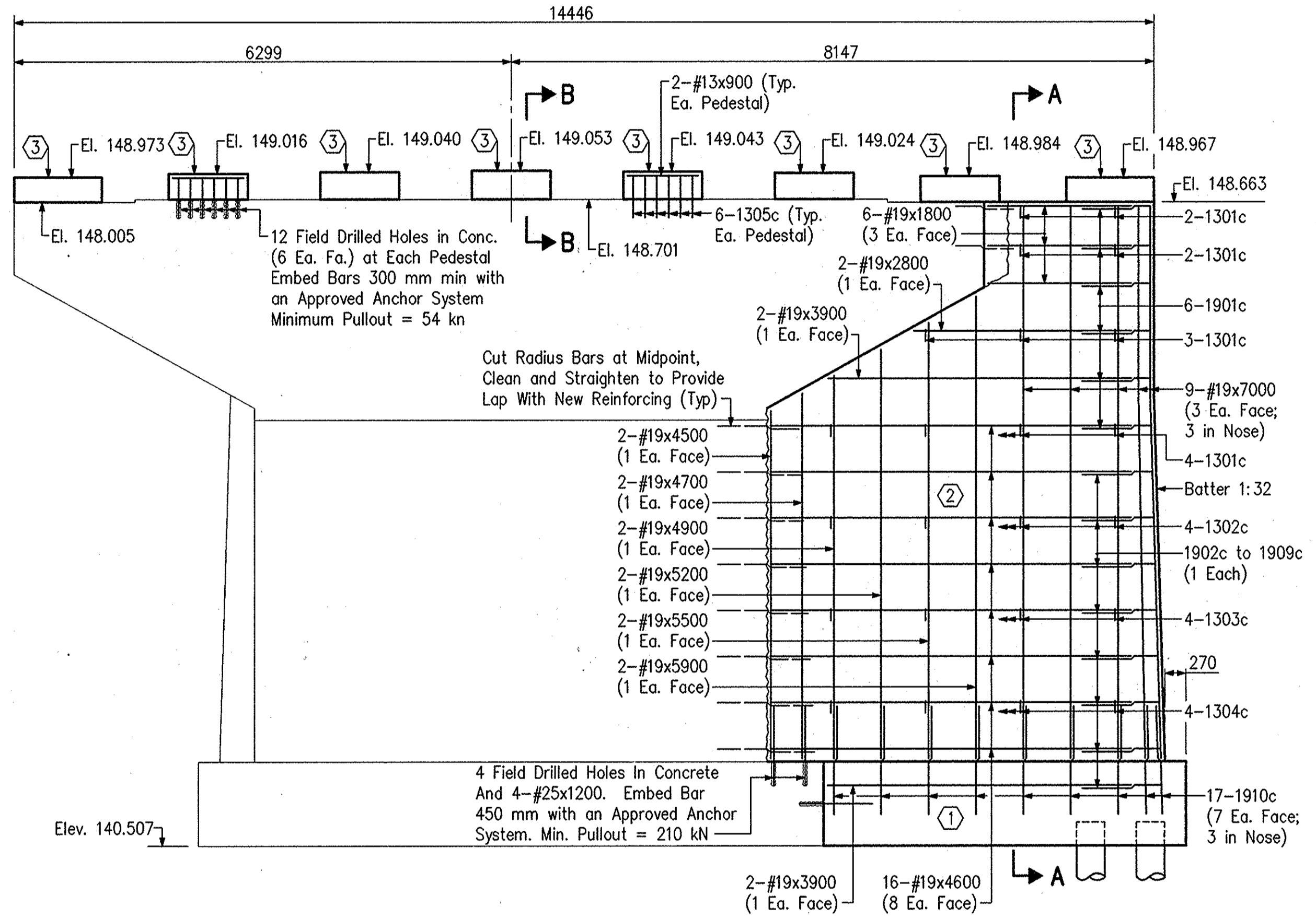
CAP PLAN



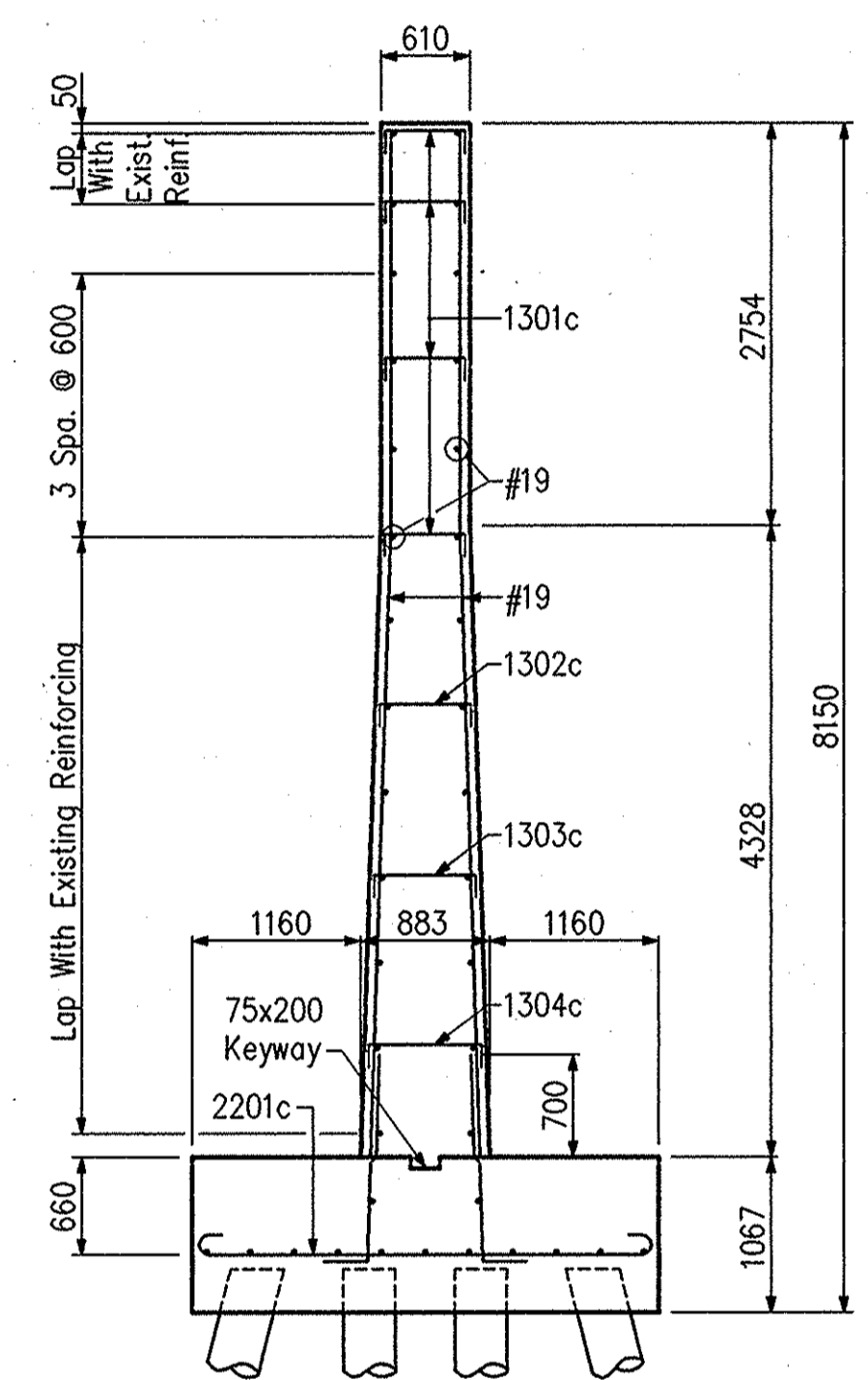
DETAIL "A"
Scale: 1:20



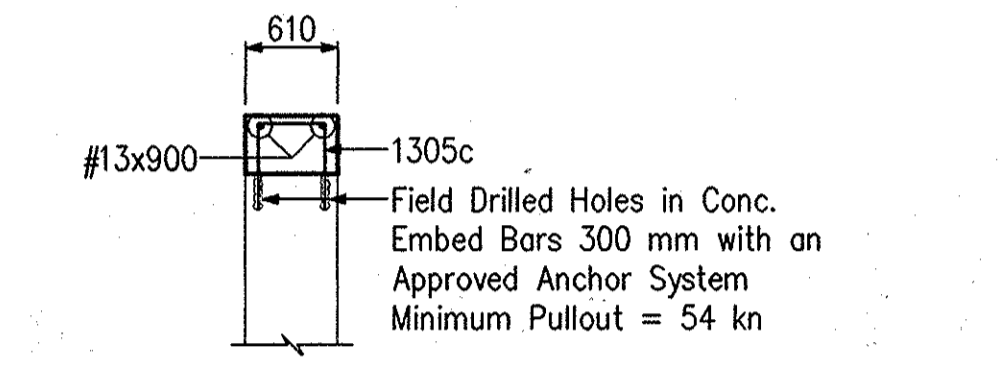
PIER CAP & STEM REMOVALS
Scale: 1:20



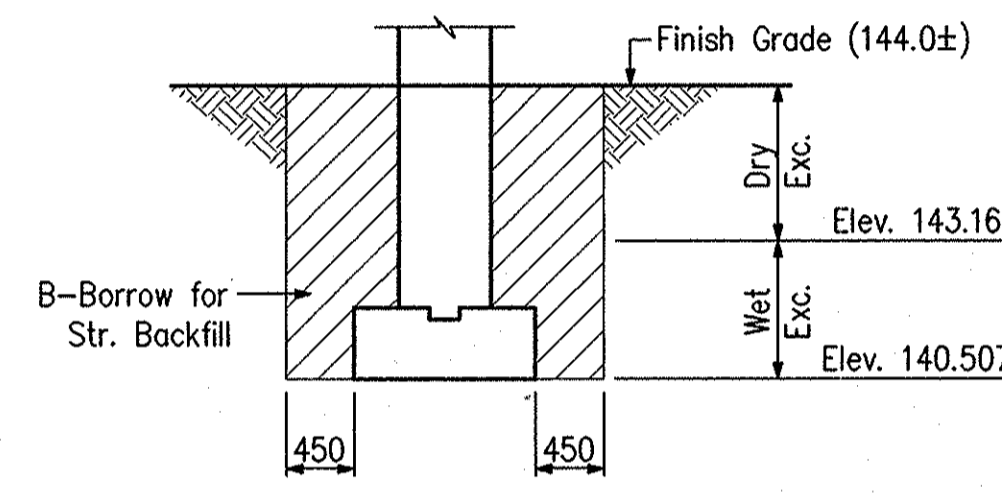
ELEVATION



SECTION A-A



SECTION B-B

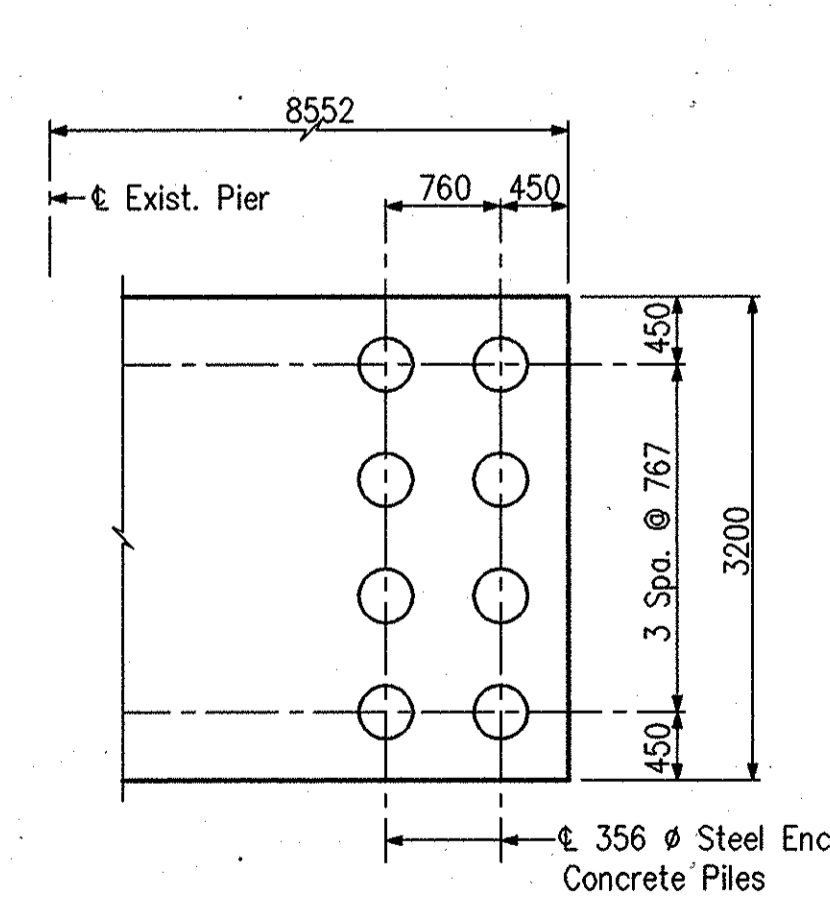


SUBSTRUCTURE EXCAVATION AND BACKFILL DETAIL
No Scale

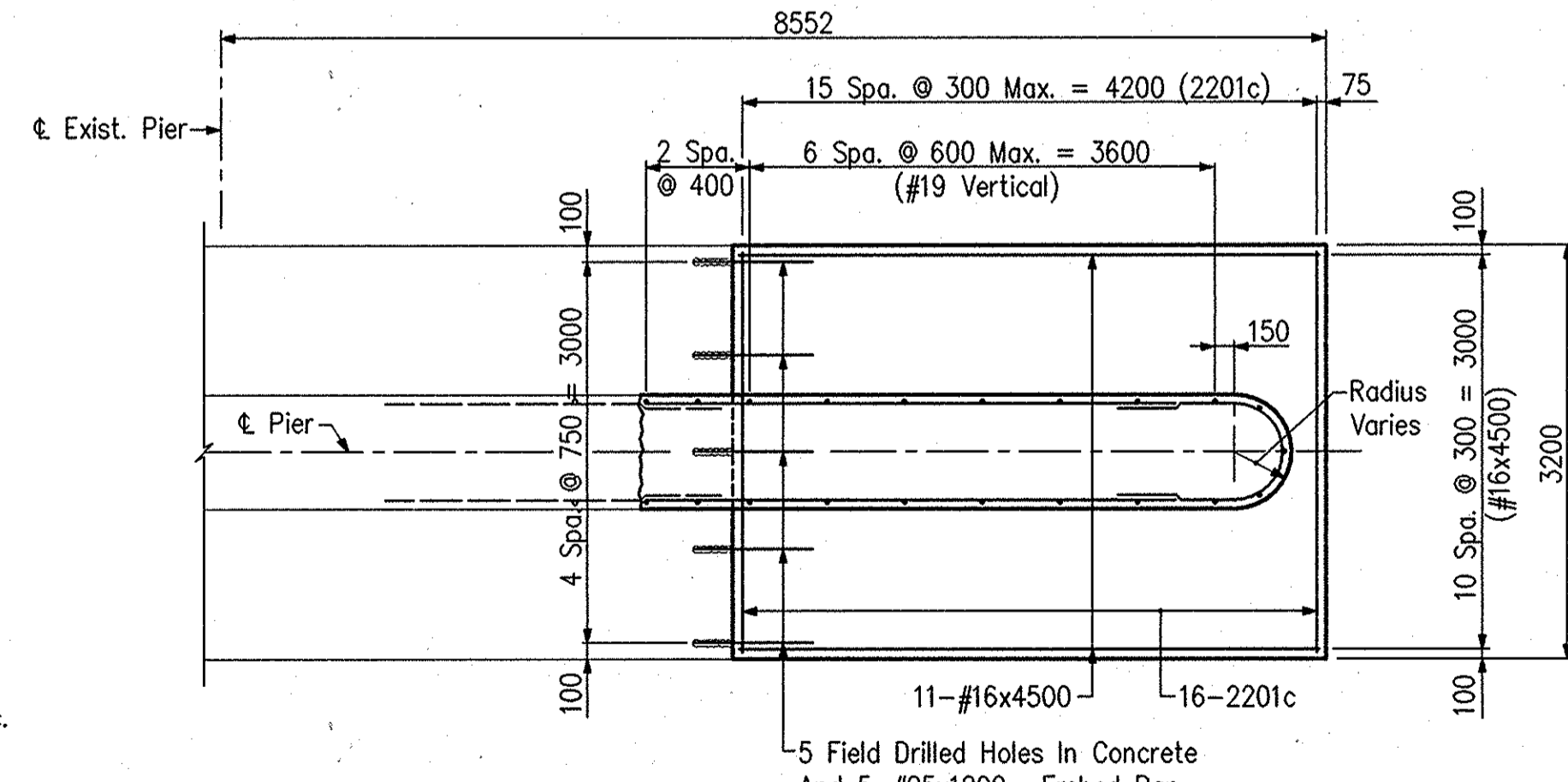
- NOTES**
- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
 - For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
 - Existing reinforcing steel to remain in place shall be cleaned and straightened.
 - ⊗ Indicates Concrete Pour Number
 - For Bearing Assembly & Side Retainer Details, See Sht. 16.
 - Minimum lap for #19 Bars is 700 mm.

BILL OF MATERIALS
Pier No. 6

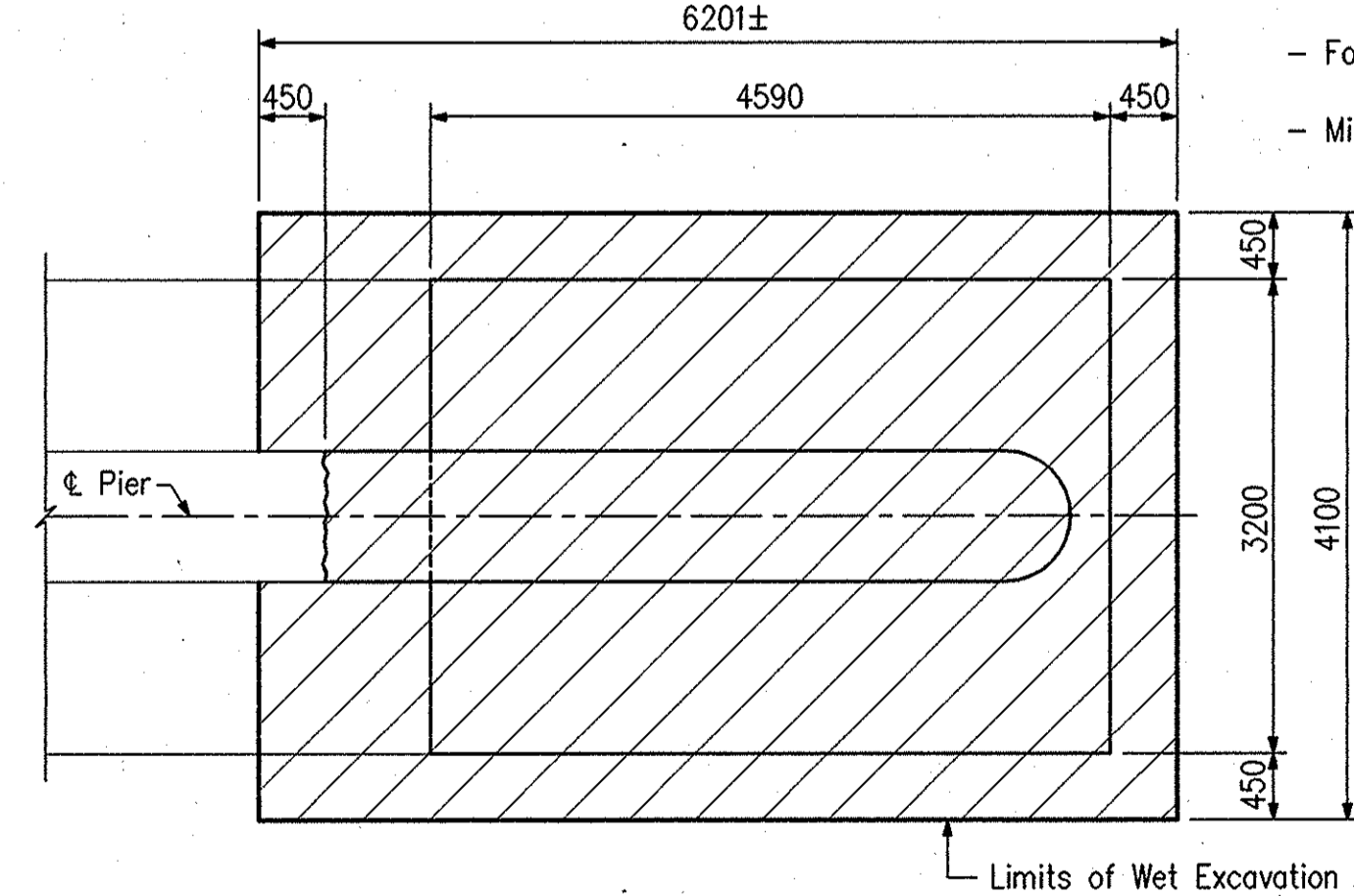
REINFORCING STEEL			
SIZE OR MARK	NO. OF BARS	LENGTH	MASS (kg)
PLAIN REINFORCING			
#25	9	1200	
Total #25 Bars			43
2201c	16	3500	
Total #22 Bars			170
1901c	1	2540	
1902c	1	2600	
1903c	1	2660	
1904c	1	2720	
1905c	1	2780	
1906c	1	2840	
1907c	1	2900	
1908c	1	2960	
1909c	1	3000	
1910c	17	1880	
#19	9	7000	
#19	2	5900	
#19	2	5500	
#19	2	5200	
#19	2	4900	
#19	2	4700	
#19	16	4600	
#19	2	4500	
#19	4	3900	
#19	2	2800	
#19	6	1800	
Total #19 Bars			641
#16	11	4500	
Total #16 Bars			77
1301c	11	820	
1302c	4	900	
1303c	4	960	
1304c	4	1040	
1305c	48	1700	
#13	16	900	
Total #13 Bars			116
Total Plain Reinforcing Steel			1047
CONCRETE			
Concrete, A, In Substructure			
Pour No. 2		20.7 m ³	
Pour No. 3		1.6 m ³	
Total Concrete, A, In Substructure		22.3 m ³	
Concrete, B, Footings (Pour No. 1)			
		15.7 m ³	
MISCELLANEOUS			
8-Piles, Conc., Steel Shell Encased, 5.31 mm, 356 mm (10 m Each)			
		80 m	
Field Drilled Holes in Concrete			
		91 Each	
Elastomeric Bearing Assemblies			
		8 Each	
B-Borrow for Structure Backfill			
		38 m ³	



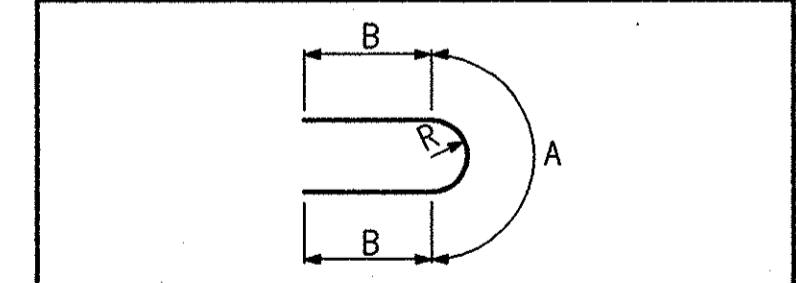
PILE PLAN



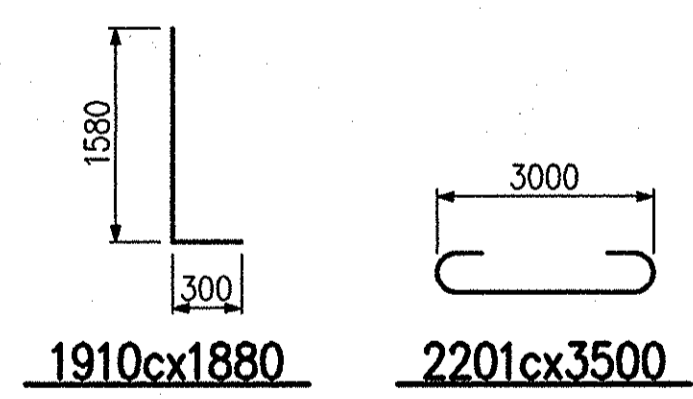
FOOTING PLAN



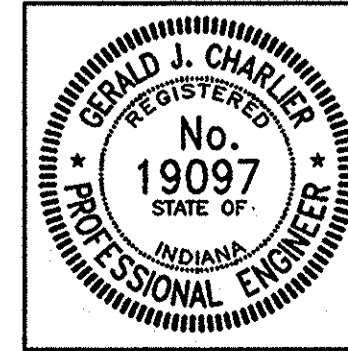
EXCAVATION PLAN



Mark	A	B	R	Length
1901c	740	900	236	2540
1902c	800	900	526	2600
1903c	858	901	273	2660
1904c	914	903	292	2720
1905c	978	901	311	2780
1906c	1036	902	329	2840
1907c	1086	907	346	2900
1908c	1150	905	365	2960
1909c	1194	903	379	3000



Mark	X	Y	Length
1301c	520	150	820
1302c	600	150	900
1303c	660	150	960
1304c	740	150	1040
1305c	440	630	1700

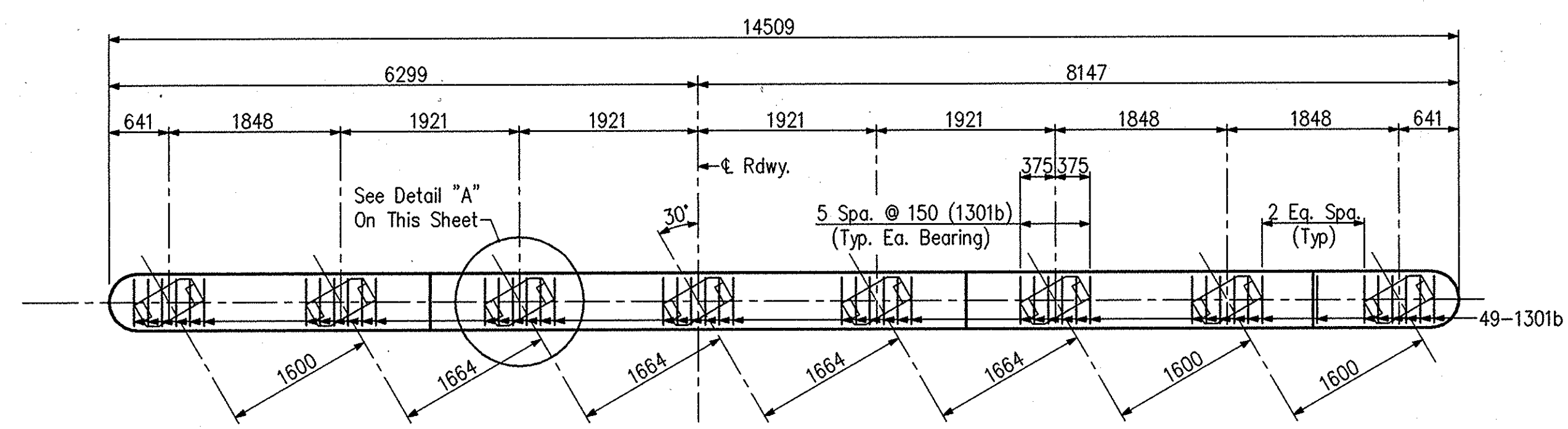


RECOMMENDED FOR APPROVAL: *[Signature]* 7-20-01 DATE
DESIGNED: JCH DRAWN: TWL
CHECKED: GDL CHECKED: RGP

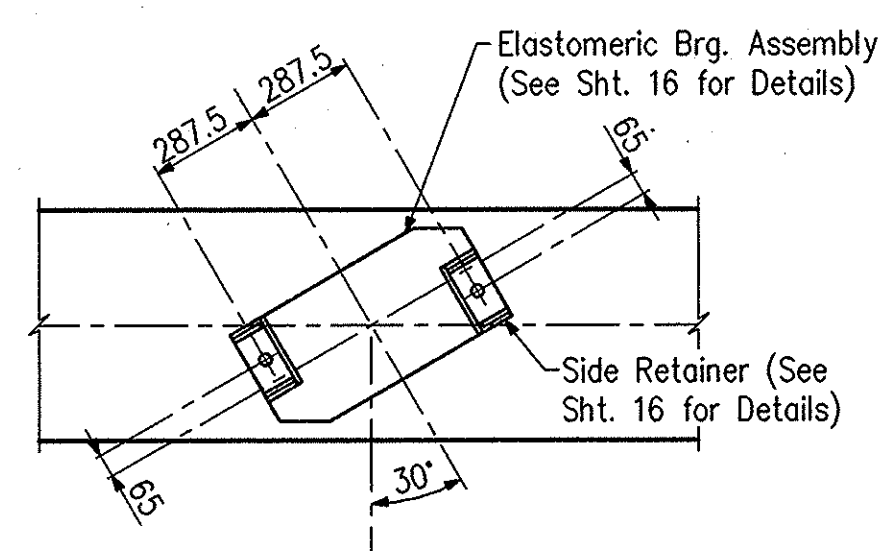
INDIANA DEPARTMENT OF TRANSPORTATION
PIER NO. 6 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:50	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	12 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

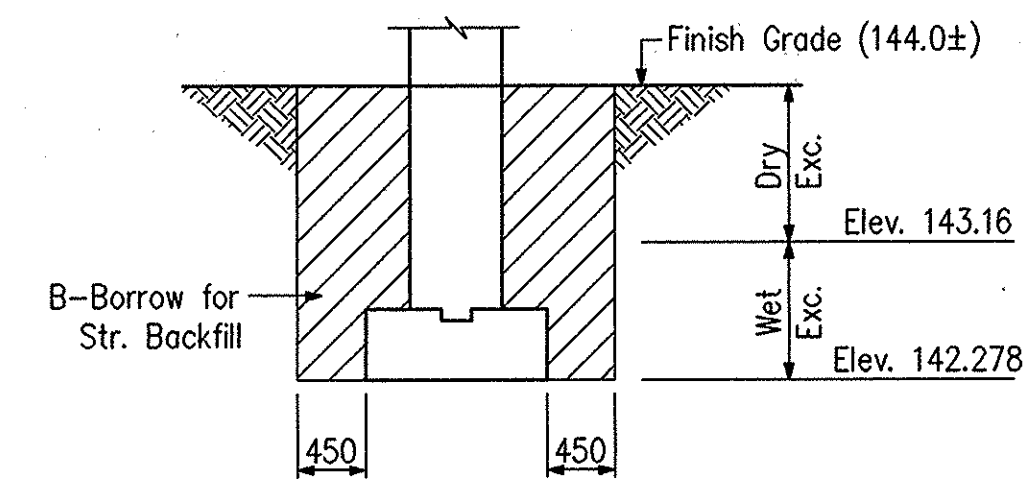
PLOT DATE: 20 JUL 2001
 PLOT TIME: 16:04:44
 N: 99040
 PATH: H:\323PRC.DWG



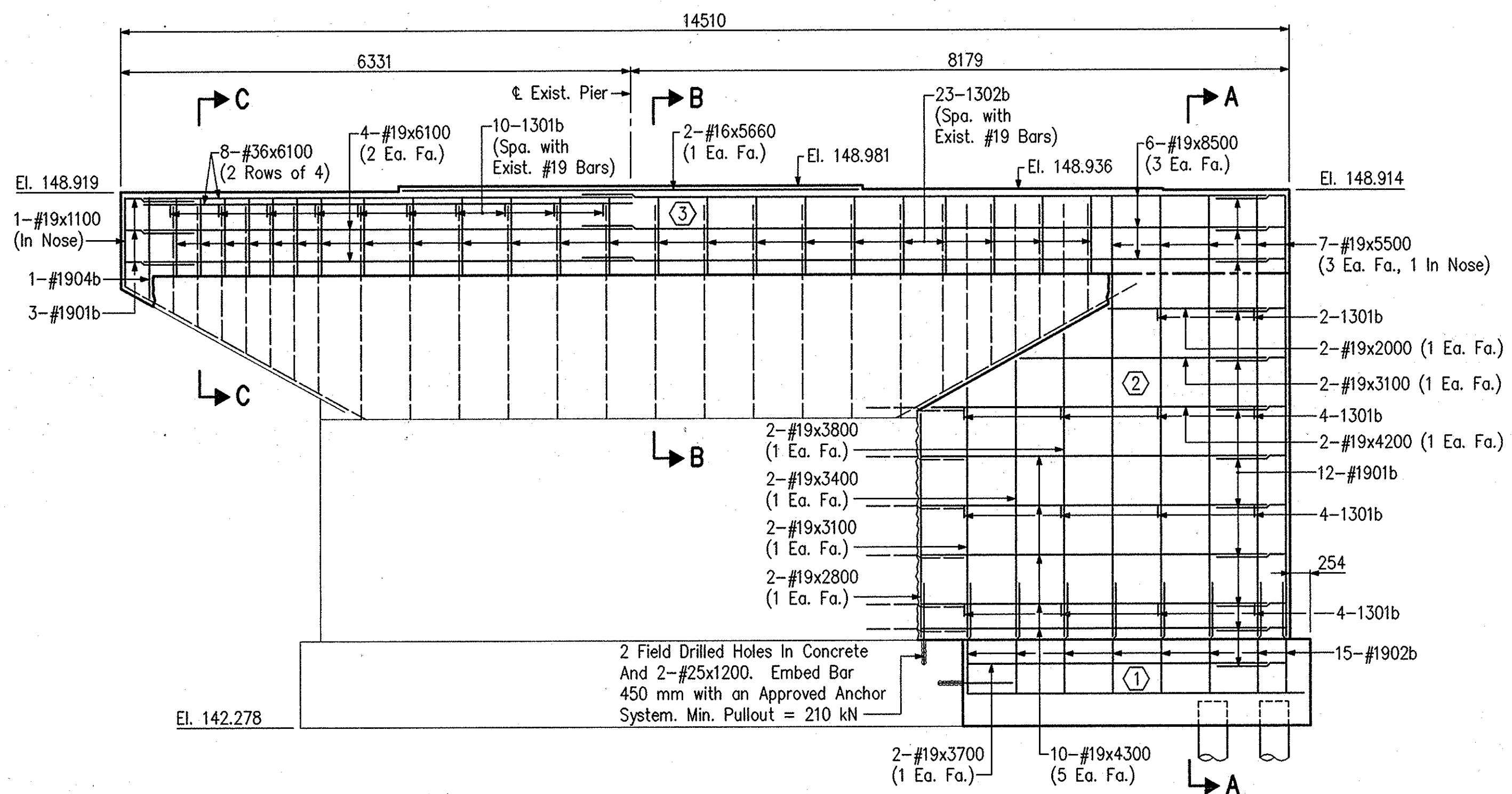
CAP PLAN



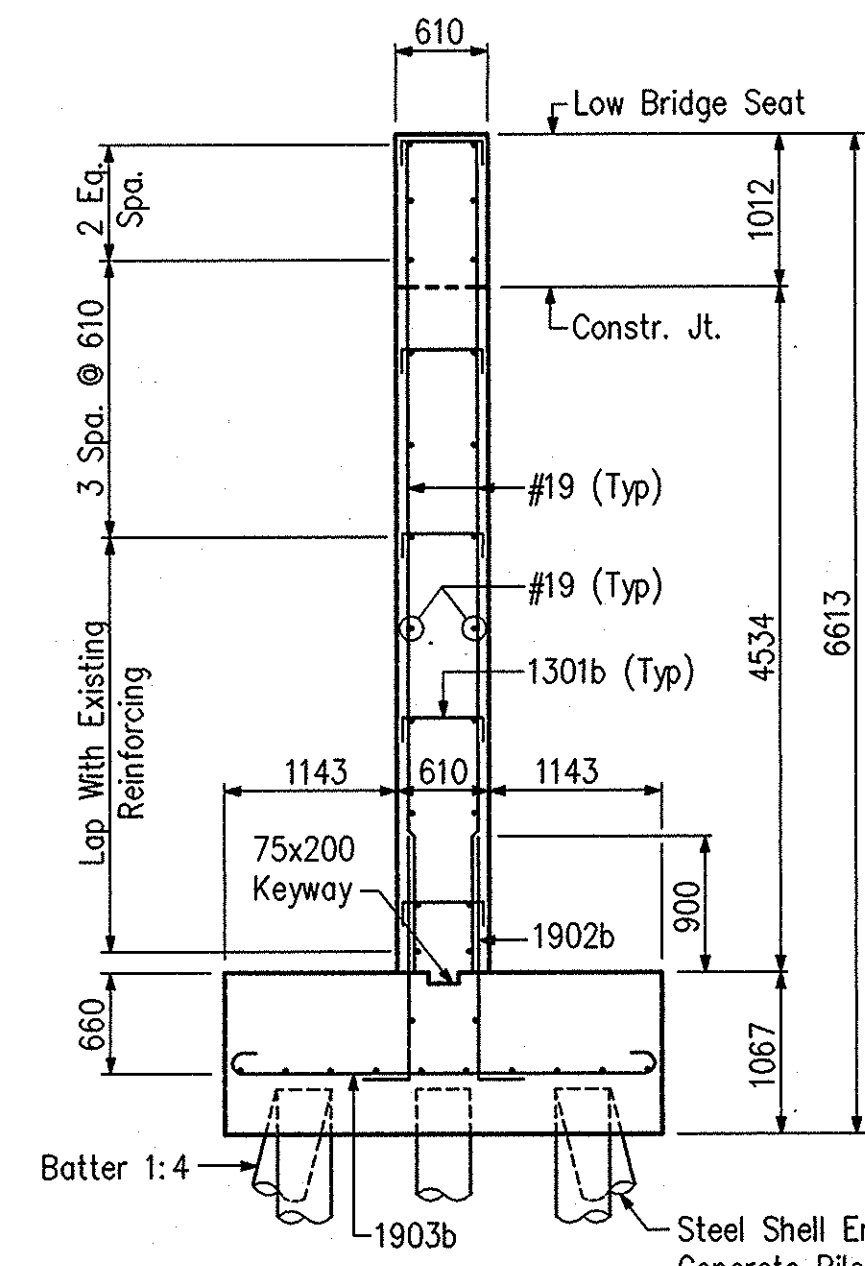
DETAIL "A"
Scale: 1:20



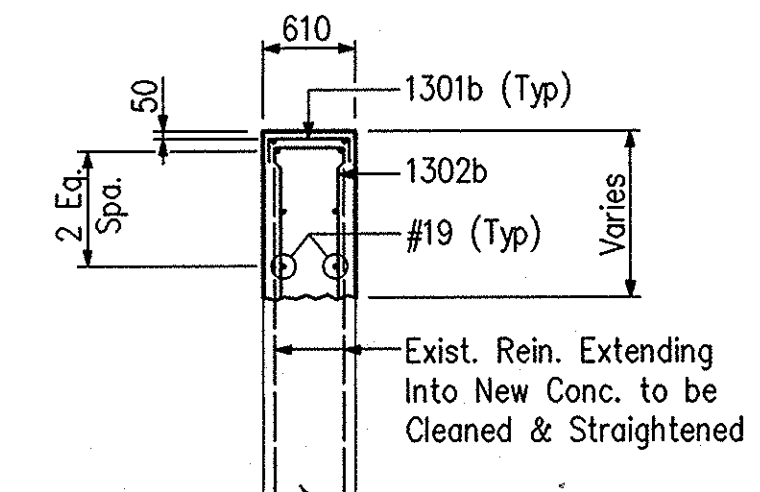
SUBSTRUCTURE EXCAVATION AND BACKFILL DETAIL
No Scale



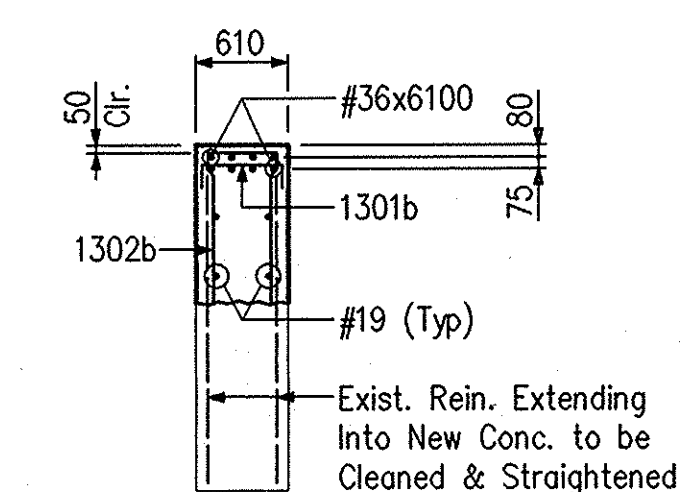
ELEVATION



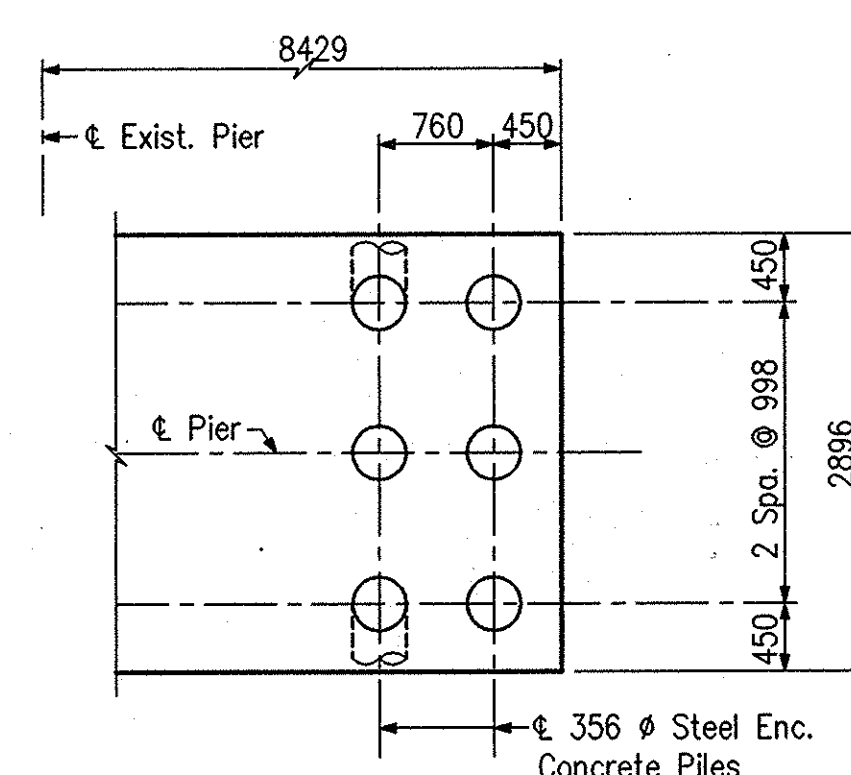
SECTION A-A



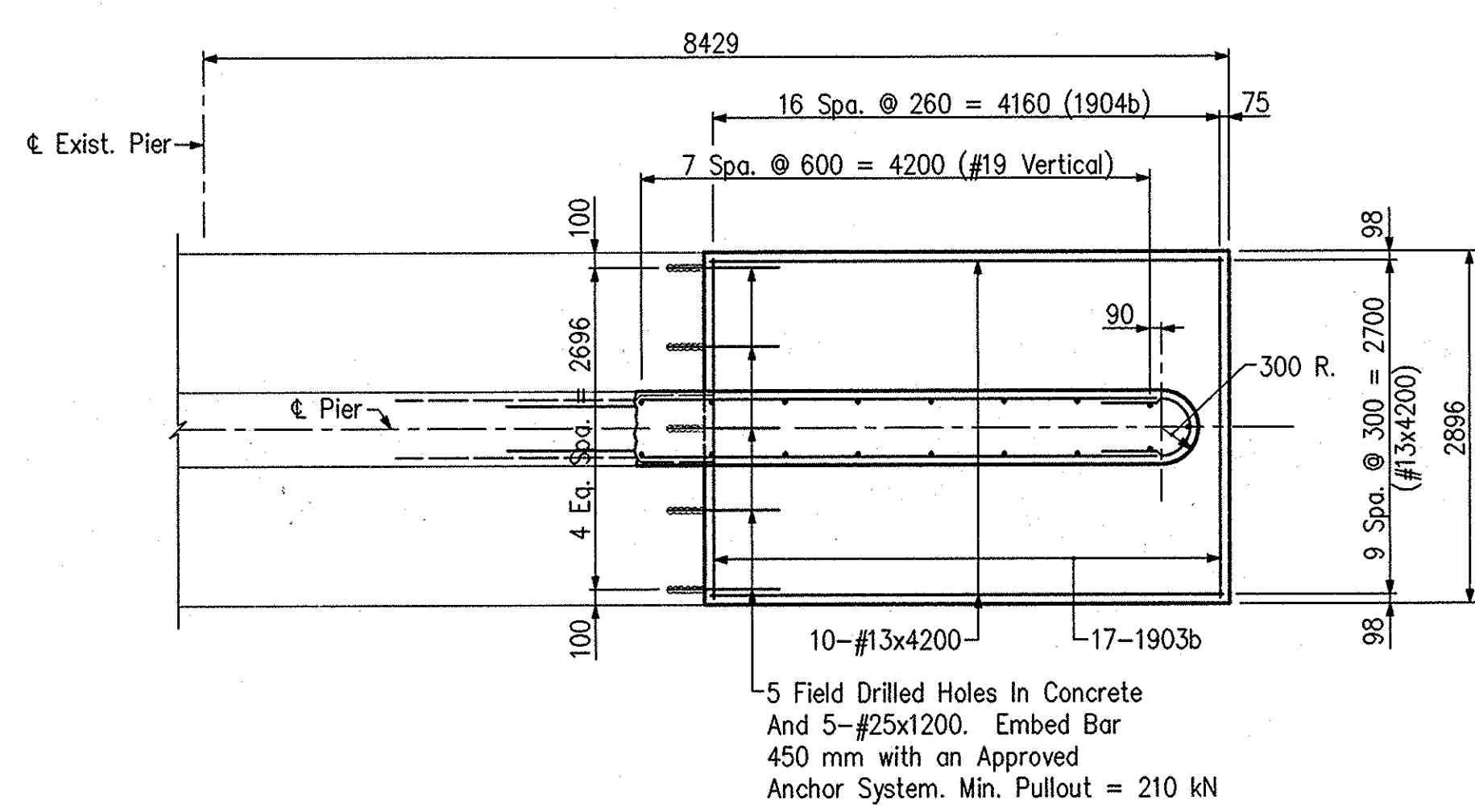
SECTION B-B



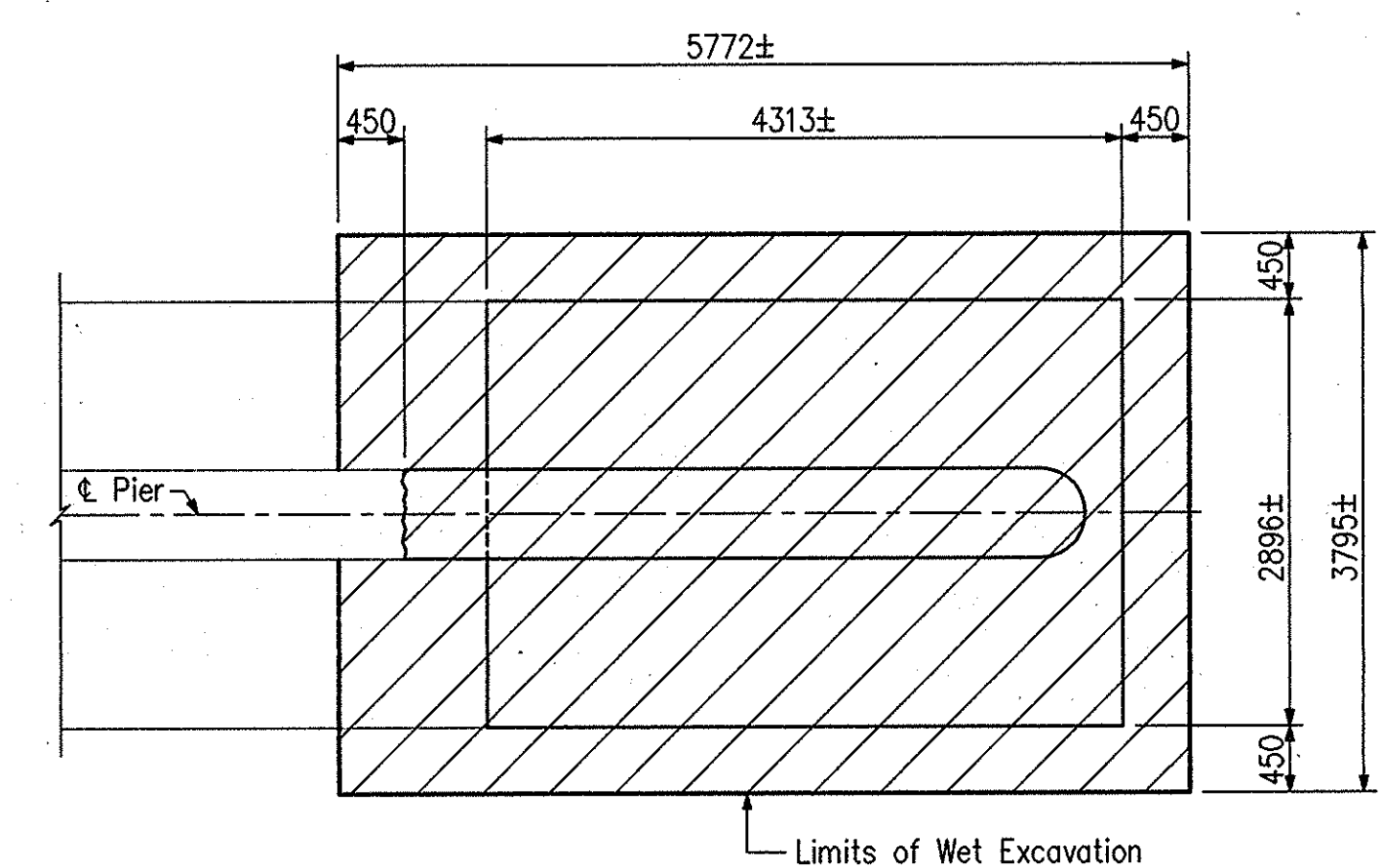
SECTION C-C



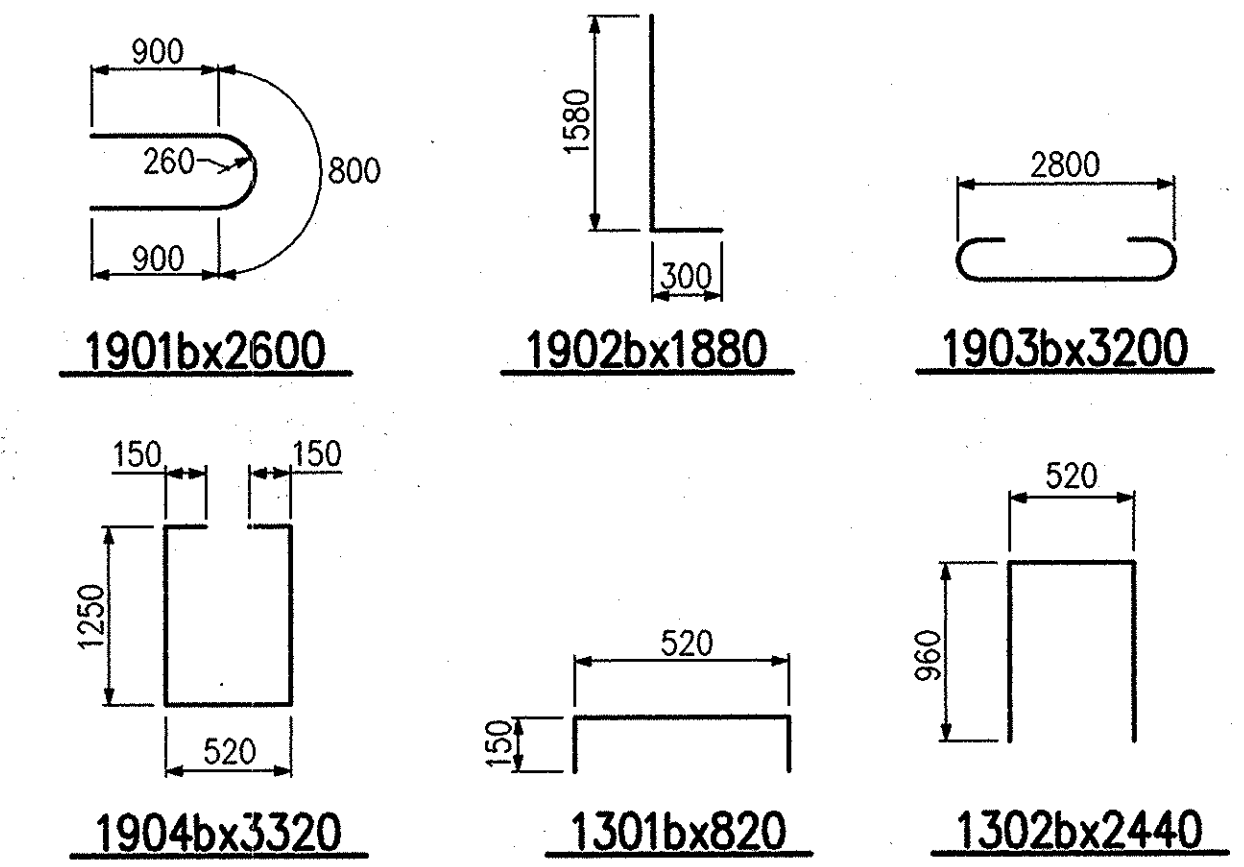
PILE PLAN



FOOTING PLAN



EXCAVATION PLAN



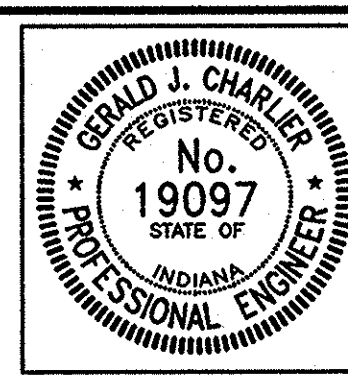
BILL OF MATERIALS
PIER NO. 7

SIZE OR MARK	NO. OF BARS	LENGTH	MASS (kg)
PLAIN REINFORCING			
#36	8	6100	
Total #36 Bars			386
#25	7	1200	
Total #25 Bars			33
1901b	15	2600	
1902b	15	1880	
1903b	17	3200	
1904b	1	3320	
#19	6	8500	
#19	4	6100	
#19	2	5660	
#19	7	5500	
#19	10	4300	
#19	2	4200	
#19	2	3800	
#19	2	3700	
#19	2	3400	
#19	4	3100	
#19	2	2800	
#19	2	2000	
#19	1	1100	
Total #19 Bars			774
1301b	74	820	
1302b	23	2440	
#13	10	4200	
Total #13 Bars			158
Total Plain Reinforcing Steel			1351
CONCRETE			
Concrete, A, In Substructure			
Pour No. 2		10.2 m ³	
Pour No. 3		9.3 m ³	
Concrete, A, In Substructure			
		19.5 m ³	
Concrete, B, In Footings (Pour No. 1)			
		13.3 m ³	
MISCELLANEOUS			
6-Piles, Conc., Steel Shell Encased, 5.31 mm, 356 mm (10.5 m Each)			
		63 m	
Field Drilled Holes in Concrete			
		7 Each	
Elastomeric Bearing Assemblies			
		8 Each	
B Borrow for Structure Backfill			
		30 m ³	

NOTES

- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
- Existing reinforcing steel to remain in place shall be cleaned and straightened.
- (X) Indicates Concrete Pour Number
- For Bearing Assembly & Side Retainer Details, See Sht. 16.
- Minimum lap for #19 Bars is 700 mm.
- For removal details, see sheet 7.

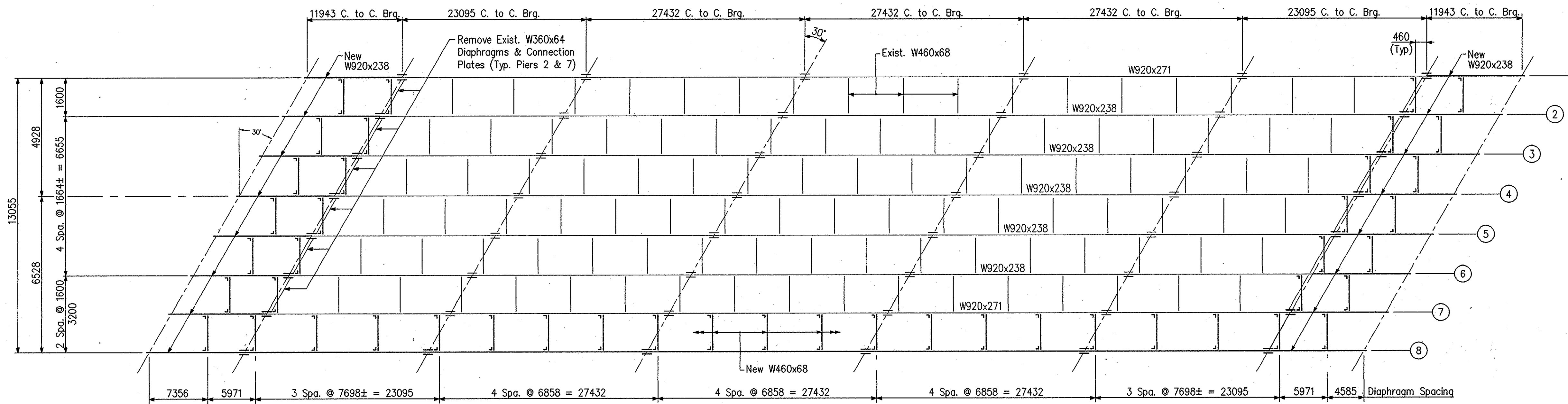
N:\990040\15232.PRY.DWG
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 PLOT TIME: 10:04:59



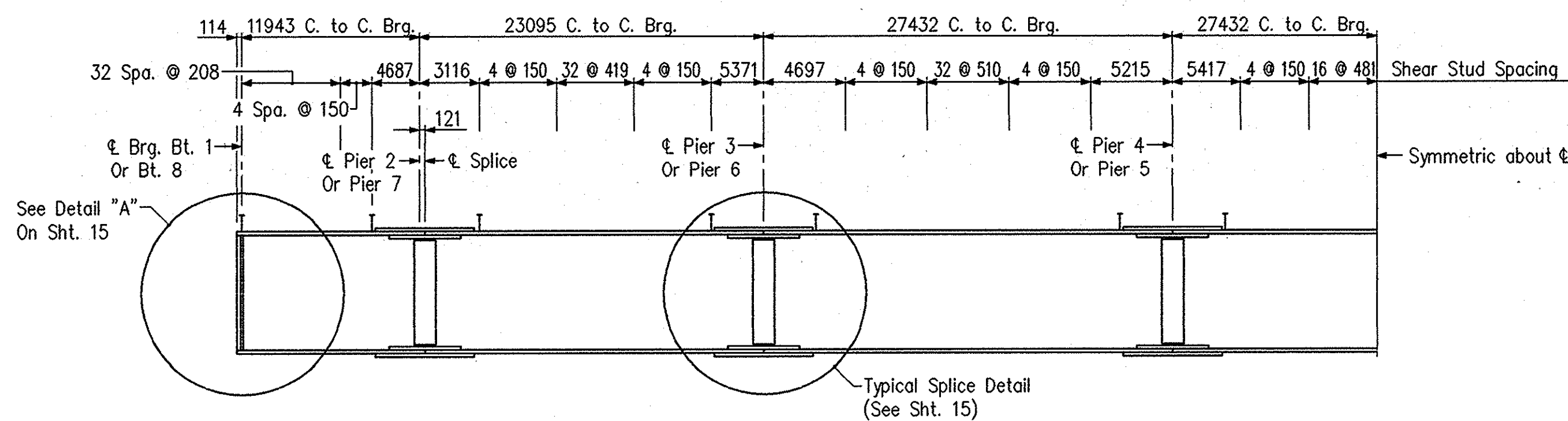
RECOMMENDED FOR APPROVAL: *[Signature]*
 DESIGN ENGINEER 7-20-01 DATE
 DESIGNED: JCH DRAWN: TWL
 CHECKED: GDL CHECKED: RGP

INDIANA DEPARTMENT OF TRANSPORTATION
PIER NO. 7 DETAILS

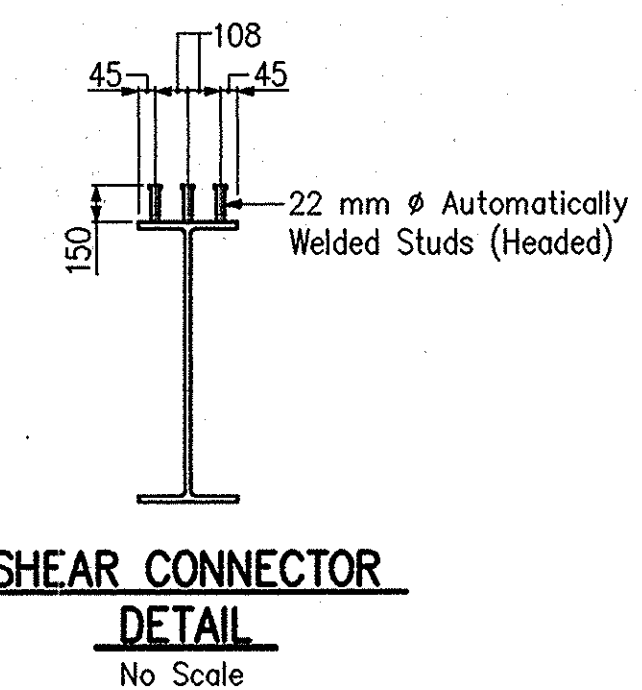
HORIZONTAL SCALE 1:50	BRIDGE FILE 63-85-4323C
VERTICAL SCALE	DESIGNATION 9900540
SURVEY BOOK	SHEETS 13 of 22
CONTRACT B 25754	PROJECT NH-017-9()



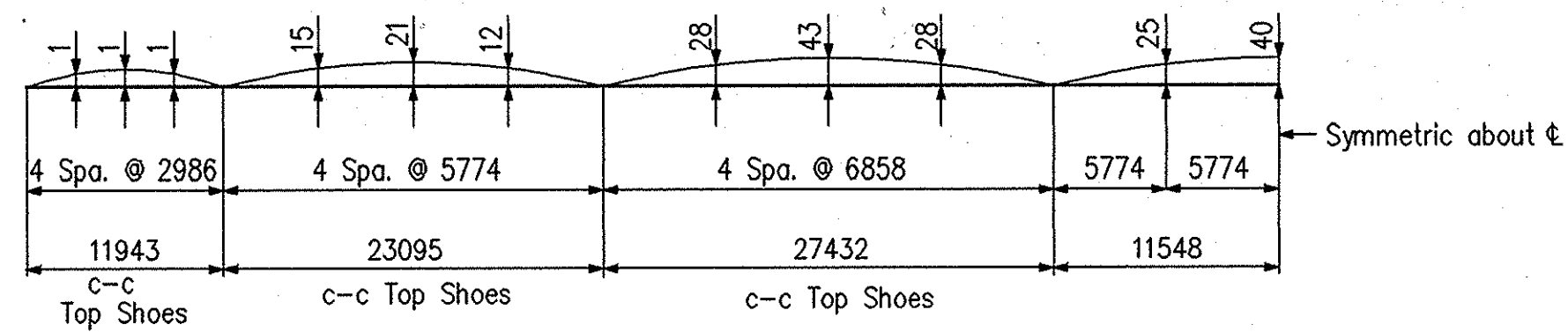
FRAMING PLAN
No Scale



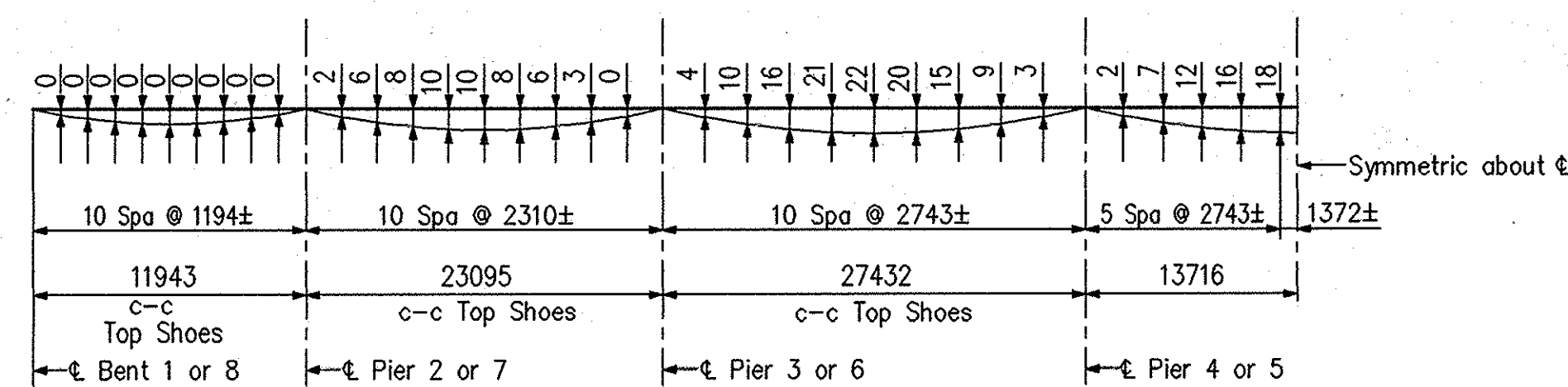
HALF BEAM ELEVATION - BEAM LINE 8
No Scale



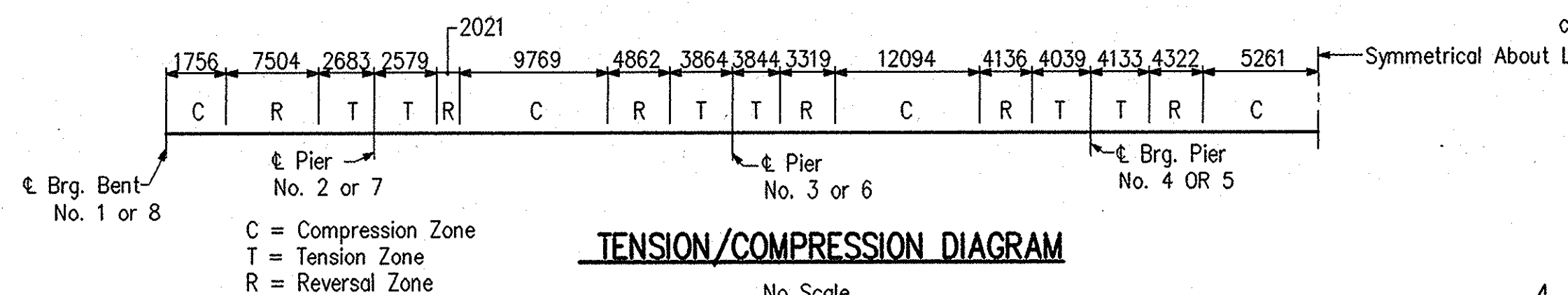
SHEAR CONNECTOR DETAIL
No Scale



NO LOAD CAMBER DIAGRAM



CONCRETE DEAD LOAD DEFLECTIONS (mm)
No Scale

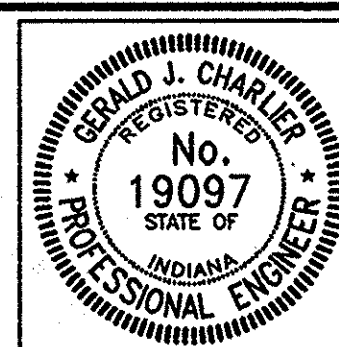


TENSION/COMPRESSION DIAGRAM
No Scale

NOTES

- All Steel to be ASTM A 36 Steel Unless Otherwise Noted.
- For Splice Details & Diaphragm Details, See Sht. 15.
- For Bearing Assembly and Fixed Shoe Details, See Sht. 16.
- High Strength Bolts to be 22 mm Unless Otherwise Noted.
- Open Holes to be 25 mm Unless Otherwise Noted.
- 1354 Field Drilled Holes Required. (14 Beam Splices, 86 Each, and 30 Diaphragm Connections, 5 Each)
- Shear Connectors to be Installed on Exist. Beams at the Same Spacing as on Beam Line 8.
- 4648 Shear Connectors Required on Existing Beams. (654 Per Existing Beam Line)
- If permanent metal deck forms are used, the flutes shall be filled with styrofoam prior to pouring the deck.

ESTIMATED MASS OF NEW STRUCTURAL STEEL = 106197 Kg
(Includes 3651 kg A-572-50 Steel in Bearings, 205 kg in Anchor Bolts and 5547 kg A-325 Bolts.)

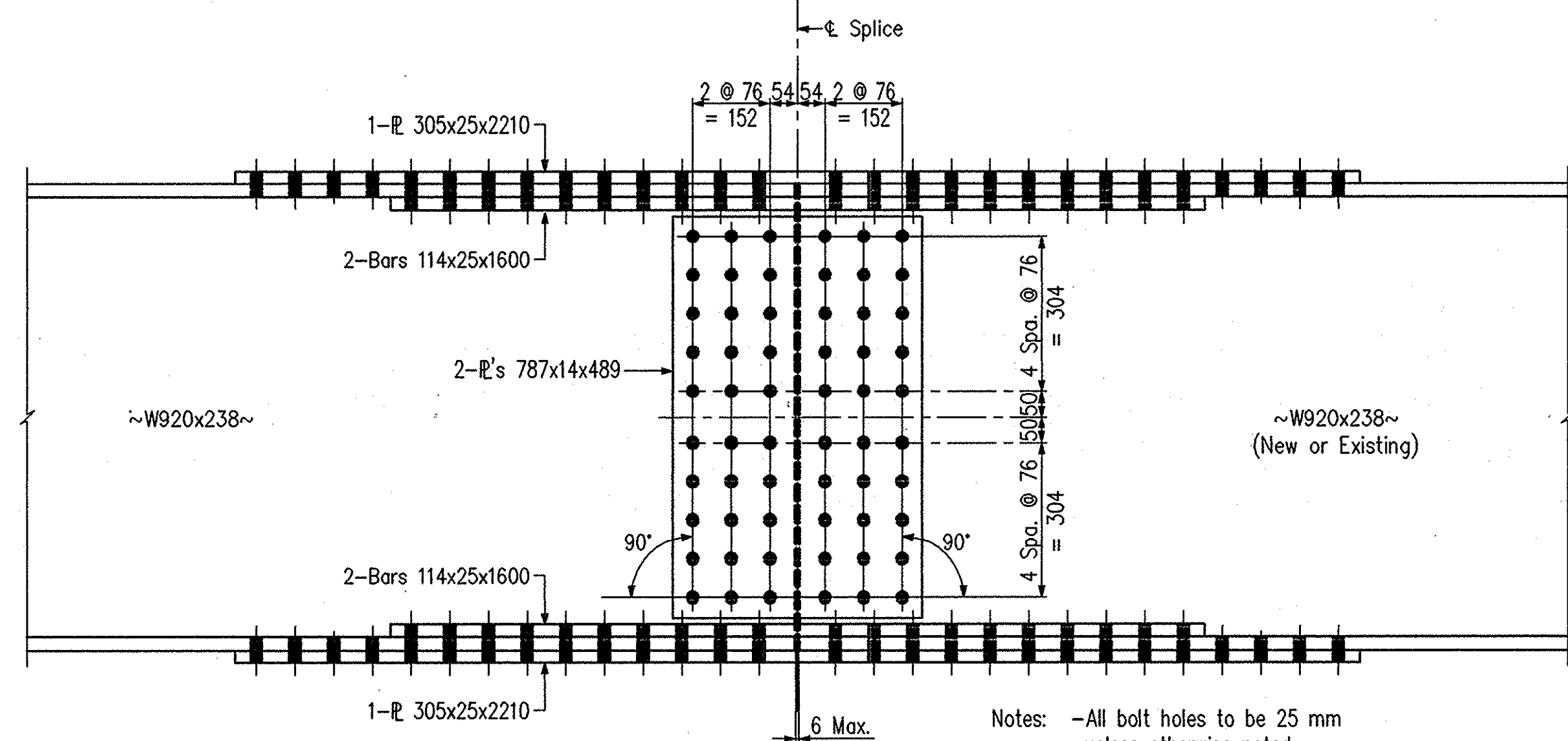
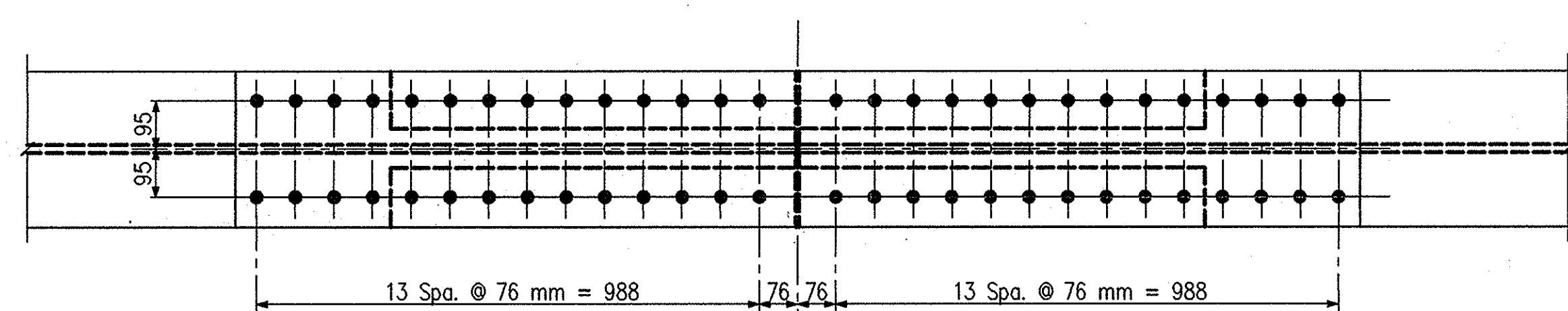


RECOMMENDED FOR APPROVAL: *Grand J. Chalder*
DESIGN ENGINEER
DATE: 7-20-01
DESIGNED: JCH
DRAWN: TWL
CHECKED: RGP
CHECKED: GDL

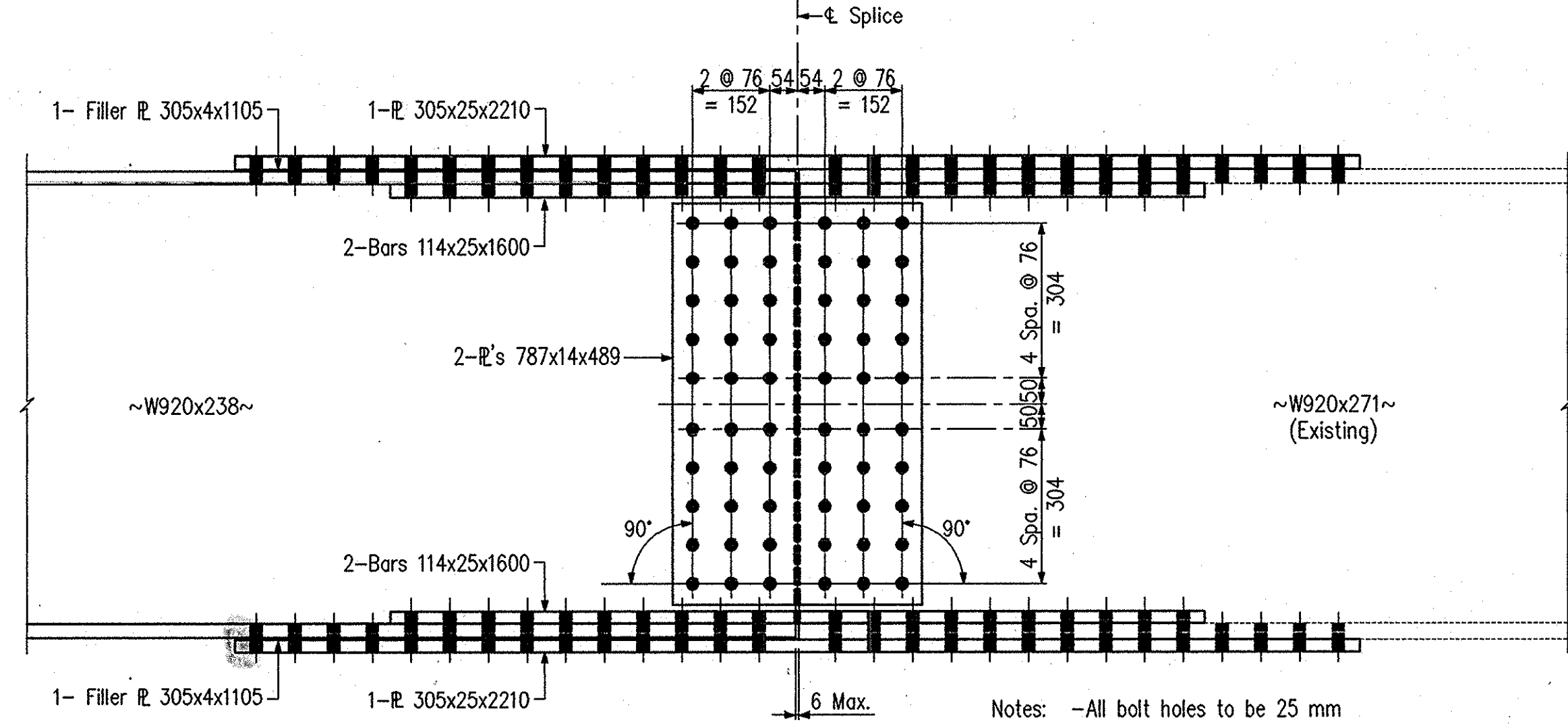
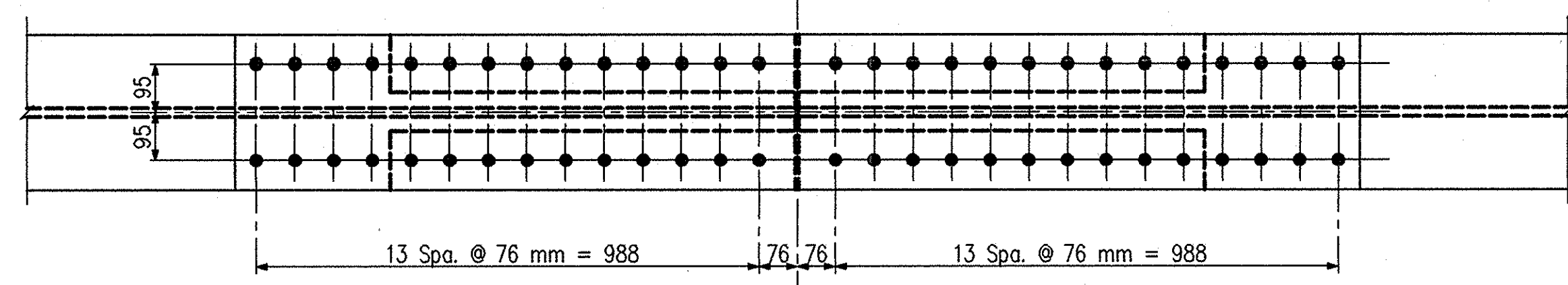
INDIANA DEPARTMENT OF TRANSPORTATION
FRAMING PLAN

HORIZONTAL SCALE As Noted	BRIDGE FILE 63-83-4323C
VERTICAL SCALE	DESIGNATION 9900540
SURVEY BOOK	SHEETS 14 of 22
CONTRACT B 25754	PROJECT NH-017-9()

PLOT DATE: 120 JUL 2001
 PLOT TIME: 14:07:52
 PLOT FILE NAME: R323FRAM.DWG



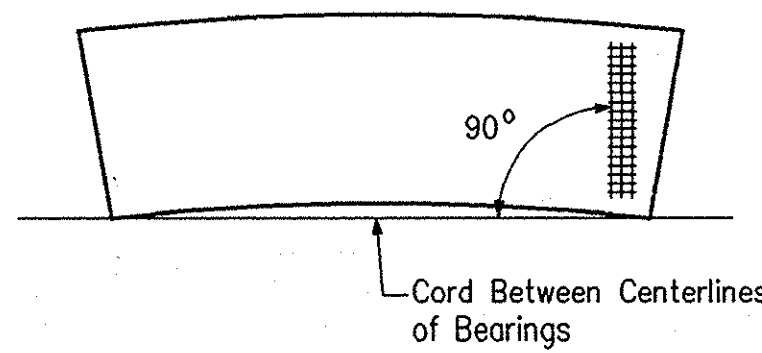
BEAM SPLICE DETAILS
(W920x238 to W920x238)
Scale: 1:10



BEAM SPLICE DETAILS
(W920x238 to W920x271)
Scale: 1:10

Elevations are Applied Here (See Table Below)

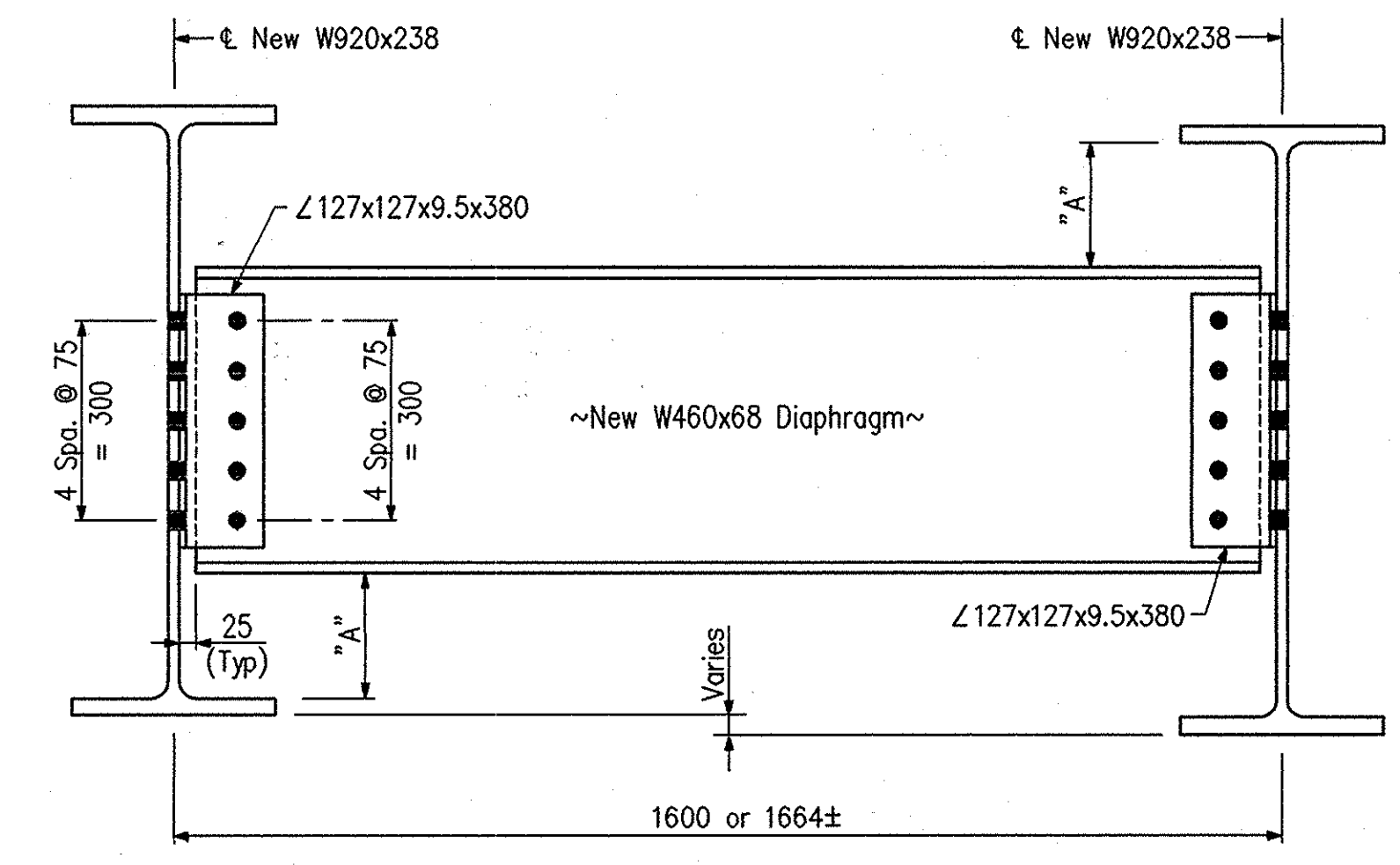
SPLICE ELEVATION TABLE							
Beam Line	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	
1	150.150	-	-	-	-	150.133	
2	150.175	-	-	-	-	150.163	
3	150.193	-	-	-	-	150.187	
4	150.201	-	-	-	-	150.201	
5	150.187	-	-	-	-	150.193	
6	150.163	-	-	-	-	150.175	
7	150.133	-	-	-	-	150.150	
8	150.097	150.159	150.199	150.204	150.173	150.120	



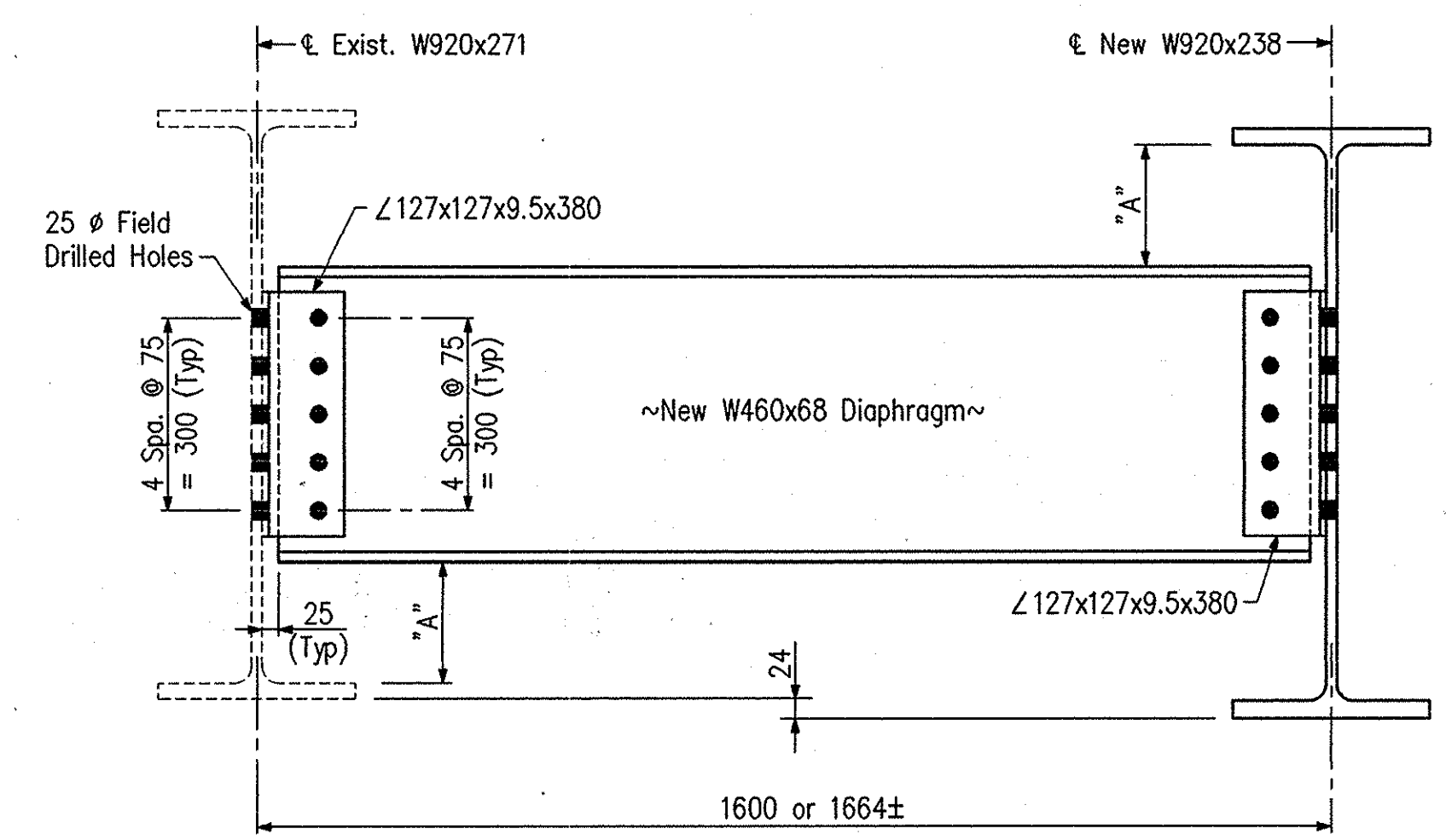
TYPICAL GAGE LINE LAYOUT
No Scale

SHIM TABLE *					
Beam Line	Bent 1	Pier 2	Pier 7	Bent 8	
1	12	12	12	12	
2	48	45	50	12	
3	19	18	12	37	
4	27	51	51	38	
5	12	12	18	30	
6	54	50	45	12	
7	12	12	12	30	
8	12	12	12	12	

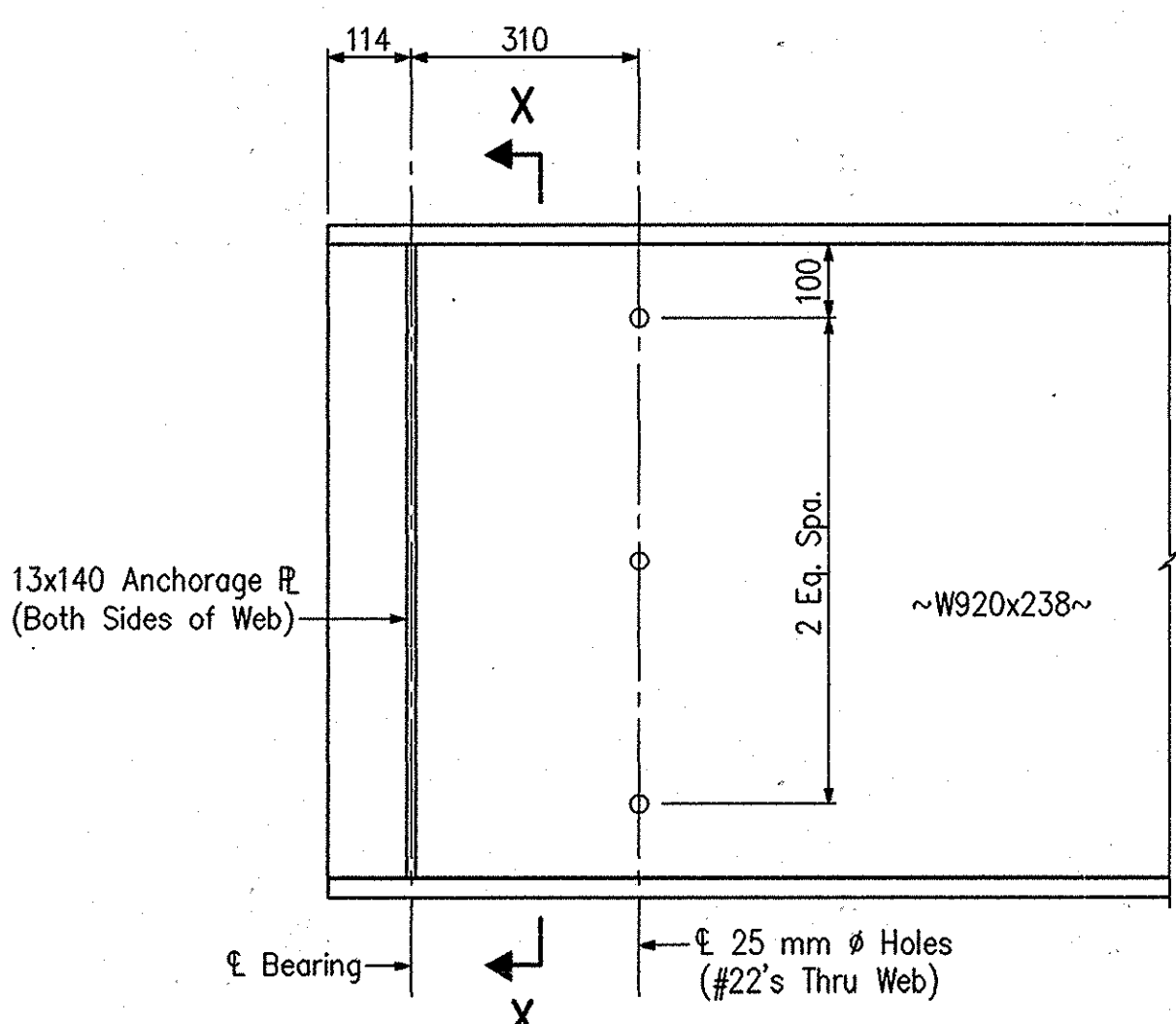
* Shims at all other locations to be 12 mm.



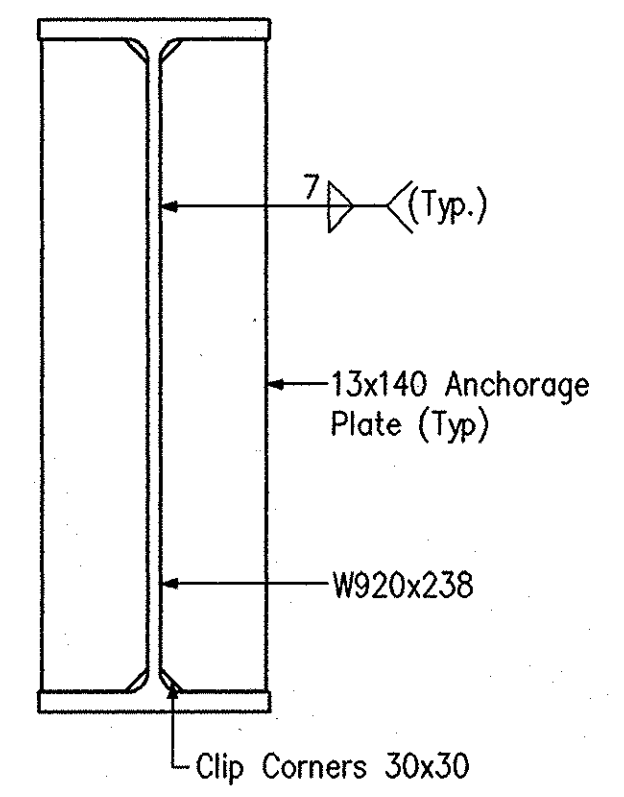
NOTE: Dimensions "A" are to be equal ± 25 mm
DIAPHRAGM DETAIL
(Between New Beams)
Scale: 1:10



NOTE: Dimensions "A" are to be equal ± 25 mm
DIAPHRAGM DETAIL
(Between New Beams)
Scale: 1:10

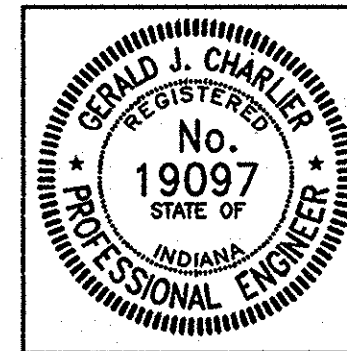


DETAIL A



SECTION X-X

TREATMENT OF NEW BEAM AT END BENT
Scale: 1:10



RECOMMENDED FOR APPROVAL: *[Signature]* 7-20-01
DESIGN ENGINEER DATE

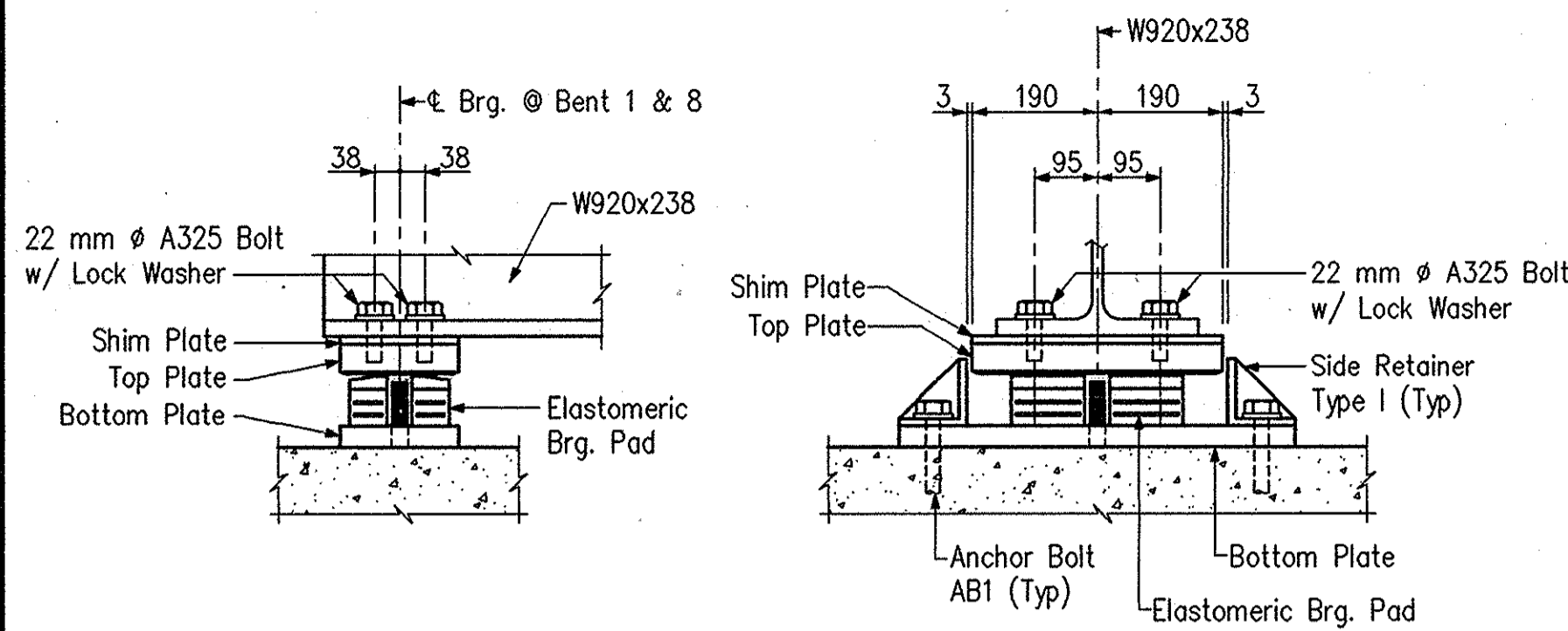
DESIGNED: JCH DRAWN: TWL
CHECKED: GDL CHECKED: RGP

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS

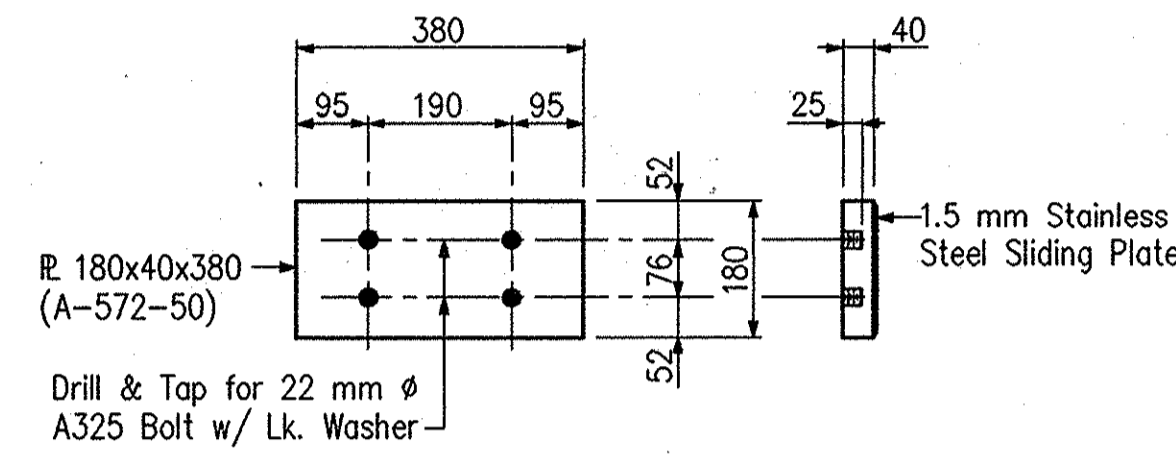
HORIZONTAL SCALE 1:10	BRIDGE FILE 63-83-4323C
VERTICAL SCALE	DESIGNATION 9900540
SURVEY BOOK	SHEETS 15 of 22
CONTRACT B 25754	PROJECT NH-017-9()

PLOT DATE: 120 JUL 2001
 PLOT TIME: 14:28:44
 PATH: I:\99040\132321.DWG



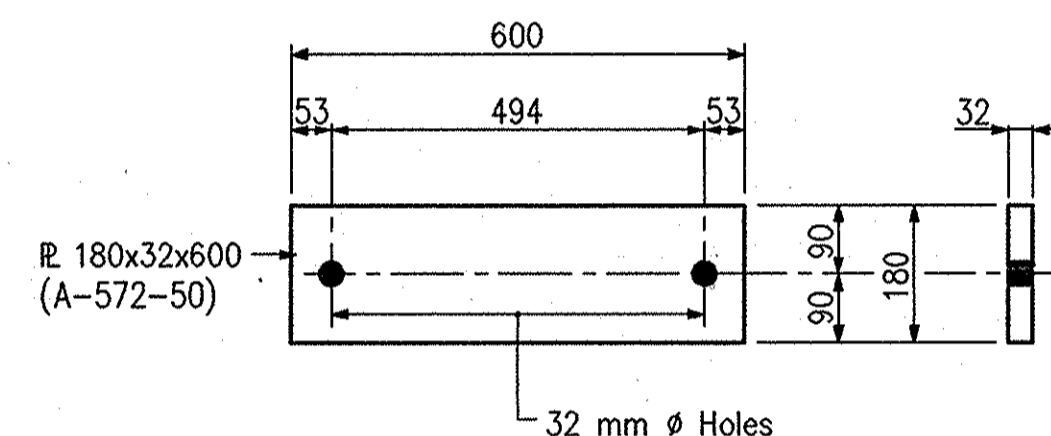
ELASTOMERIC BEARING ASSEMBLY TYPE I

(16 Req'd)



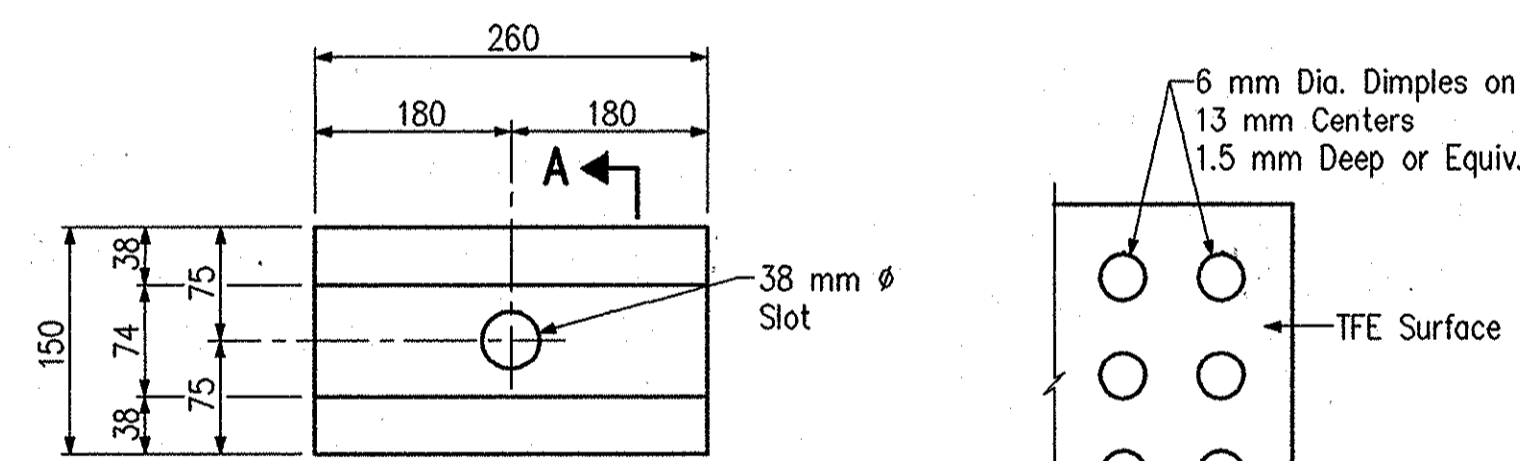
TOP PLATE @ BENTS 1 & 8 (BEARING TYPE I)

(16 Req'd)



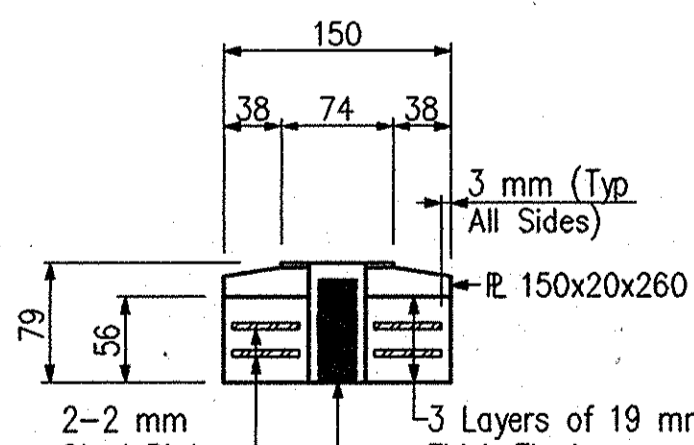
BOTTOM PLATE @ BENTS 1 & 8 (BEARING TYPE I)

(16 Req'd)

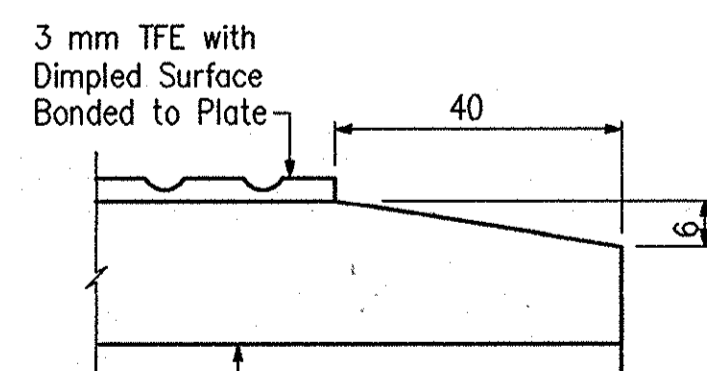


PLAN Scale: 1:5

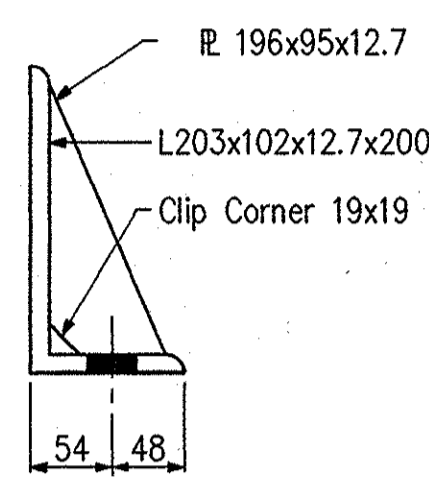
TFE PLAN Scale: 1:5



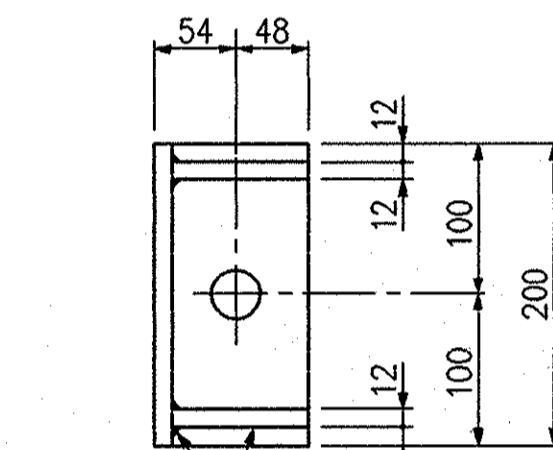
SECTION A-A Scale: 1:5



TFE SECTION Scale: 1:1



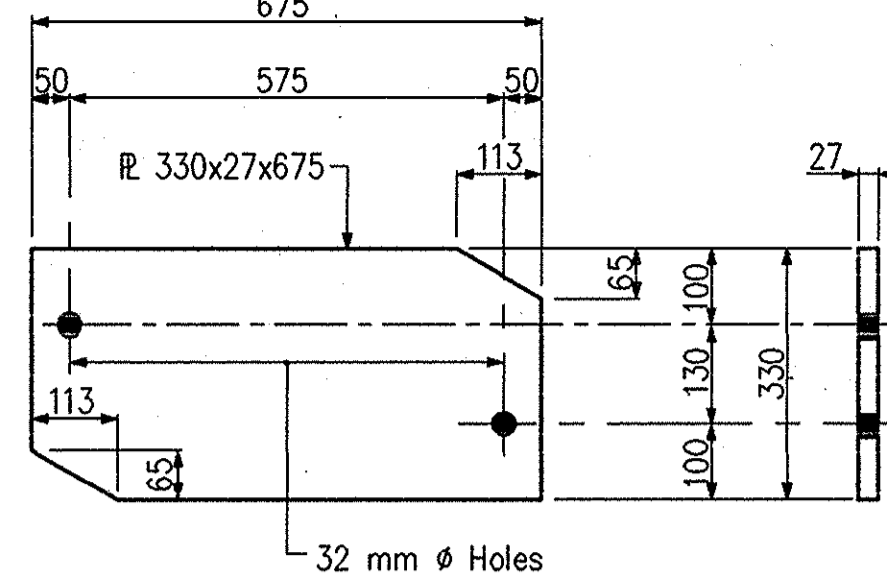
ELEVATION



PLAN

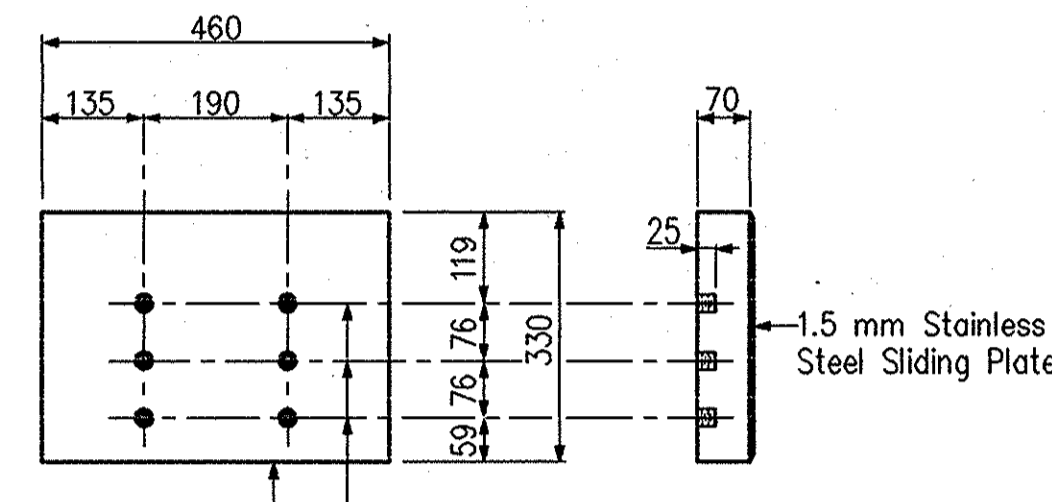
SIDE RETAINER TYPE II

(80 Required)
Scale 1:5



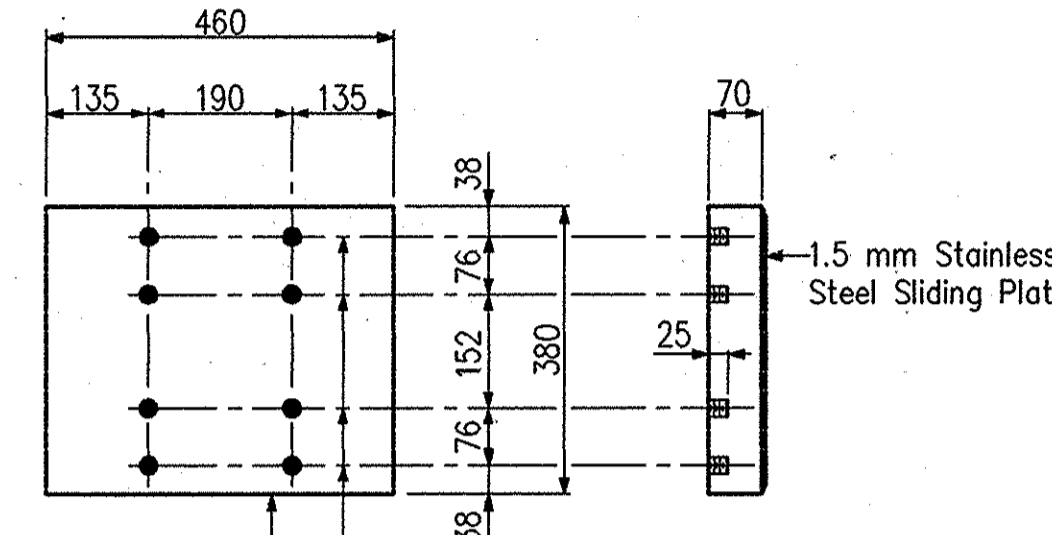
BOTTOM PLATE @ PIERS 2, 3, 4, 6, & 7 (BEARING TYPE II)

(40 Req'd)



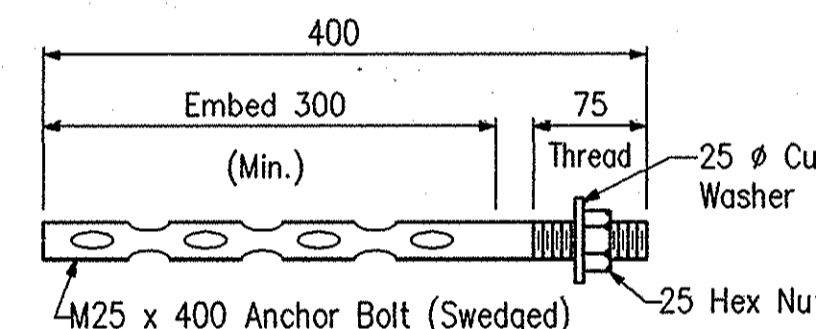
TOP PLATE @ PIERS 2 & 7 (BEARING TYPE II)

(16 Req'd)



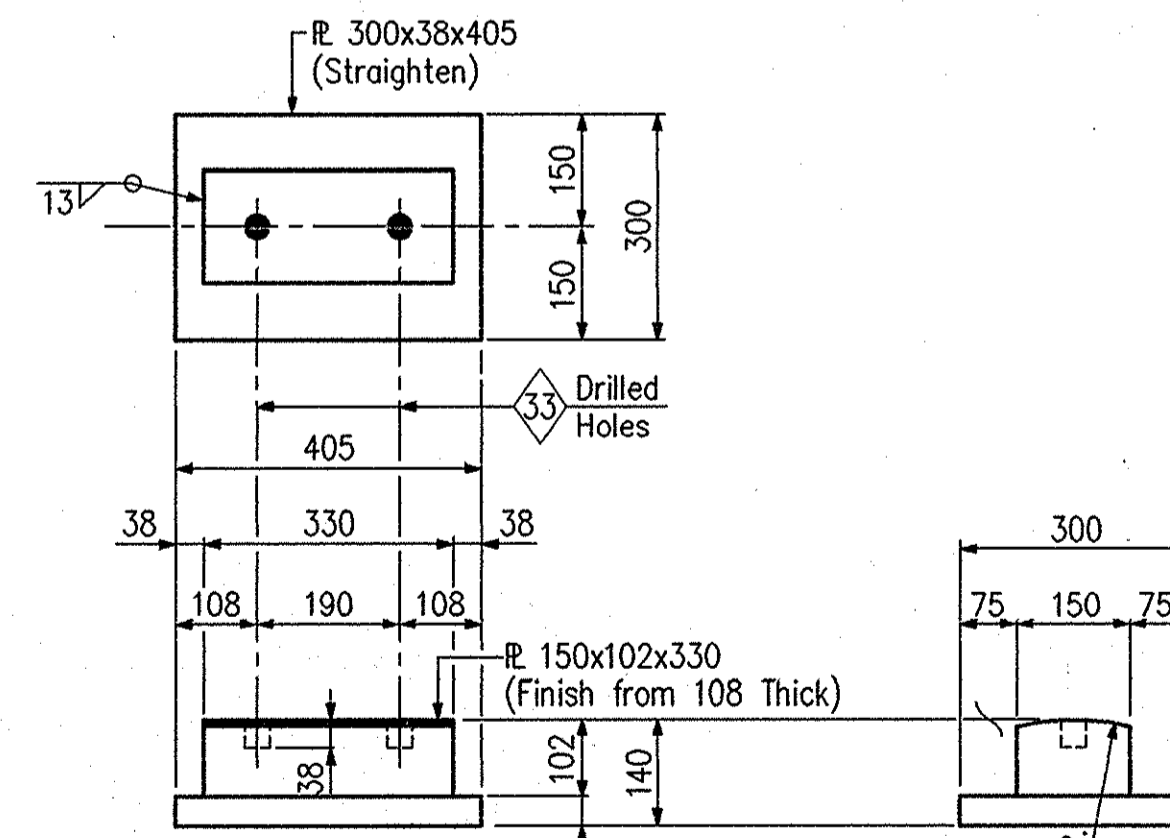
TOP PLATE @ PIERS 3, 4 & 6 (BEARING TYPE II)

(24 Req'd)



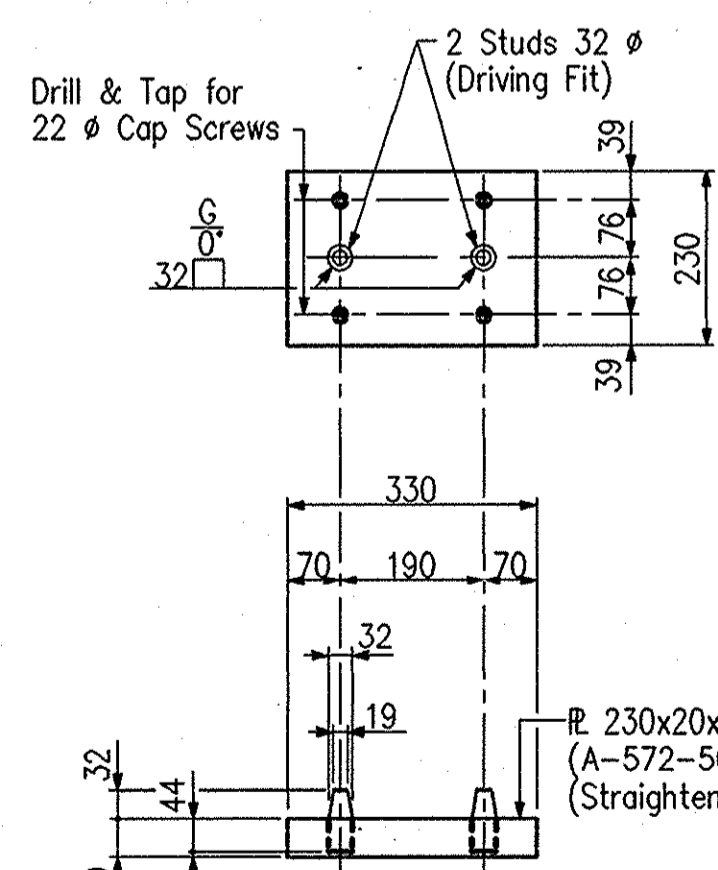
ANCHOR BOLT-AB1 DETAIL

(112 Required)
No Scale



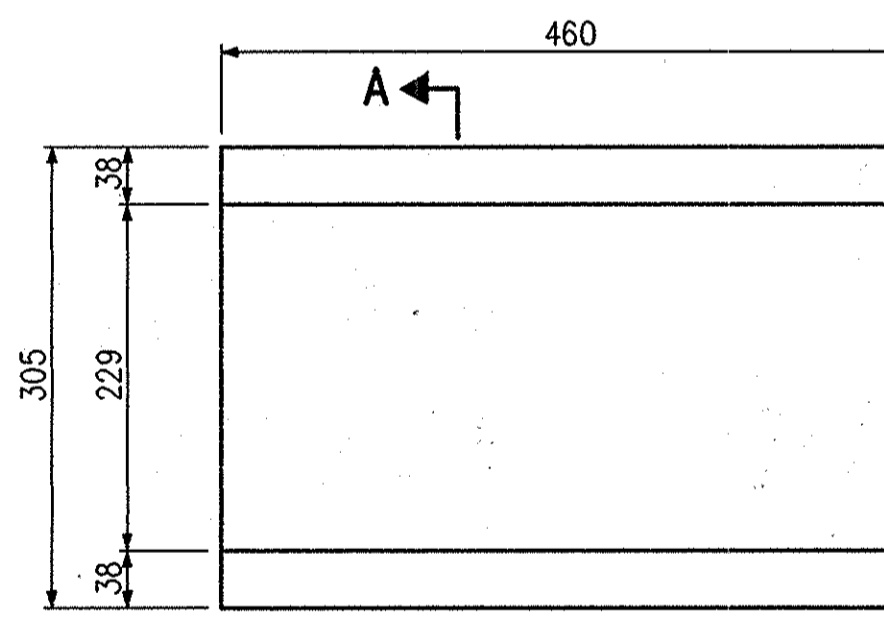
FIXED SHOE @ PIER 5

Scale 1:10

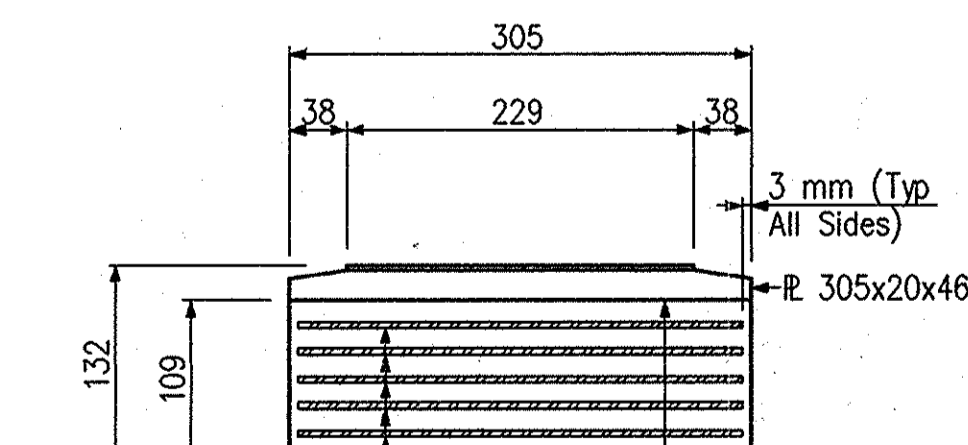


TOP SHOE @ PIER 5

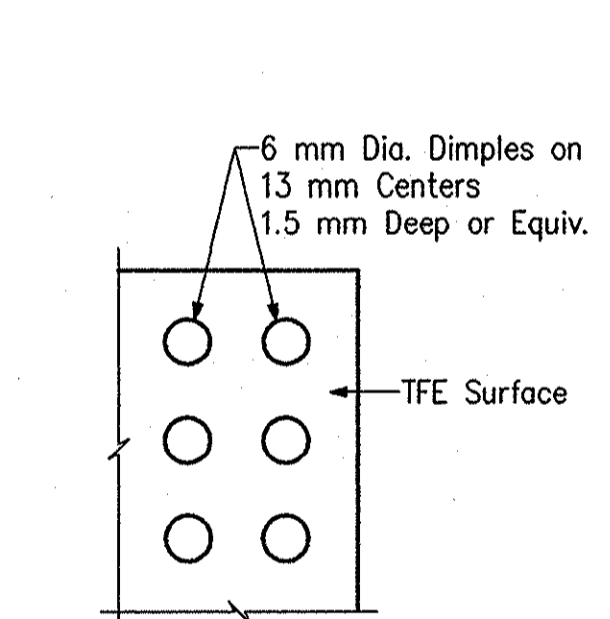
Scale 1:10



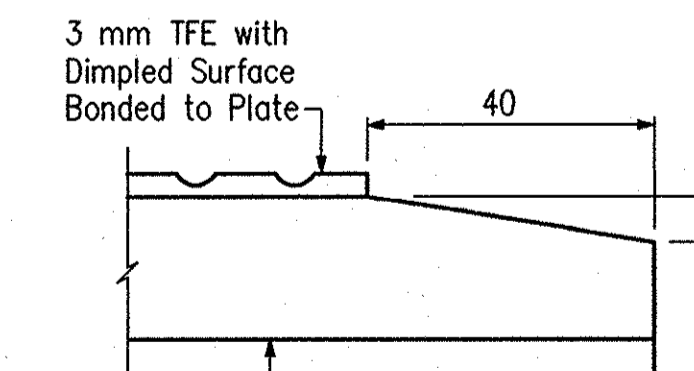
PLAN Scale: 1:5



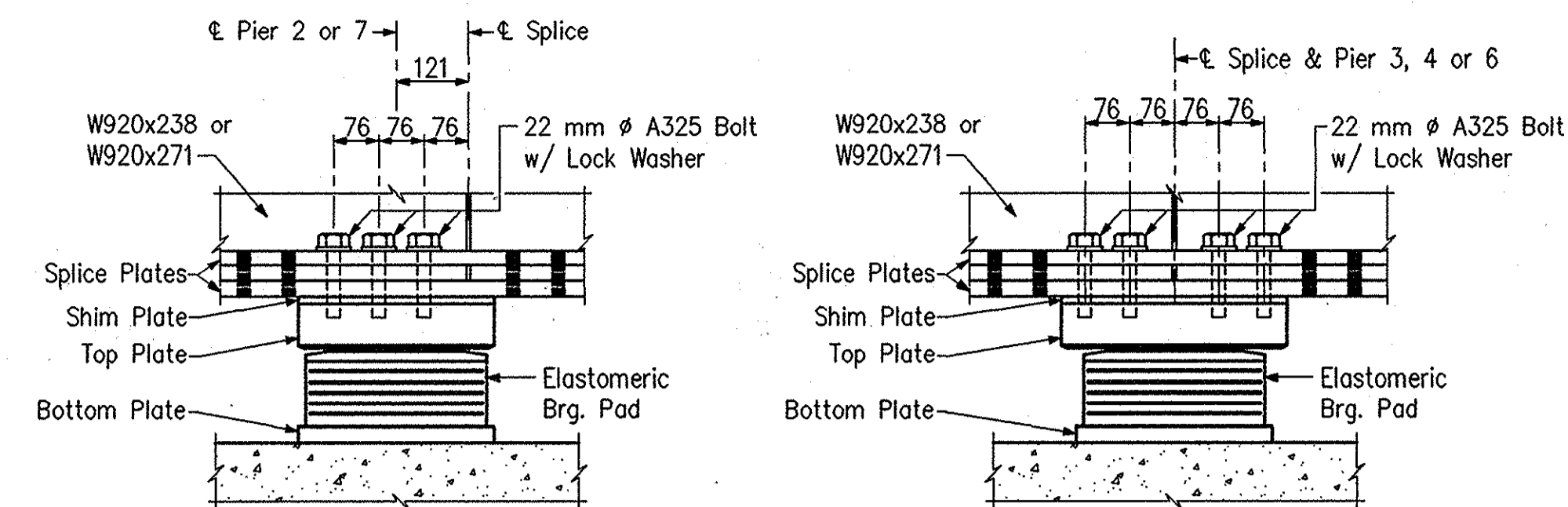
SECTION A-A Scale: 1:5



TFE PLAN Scale: 1:5

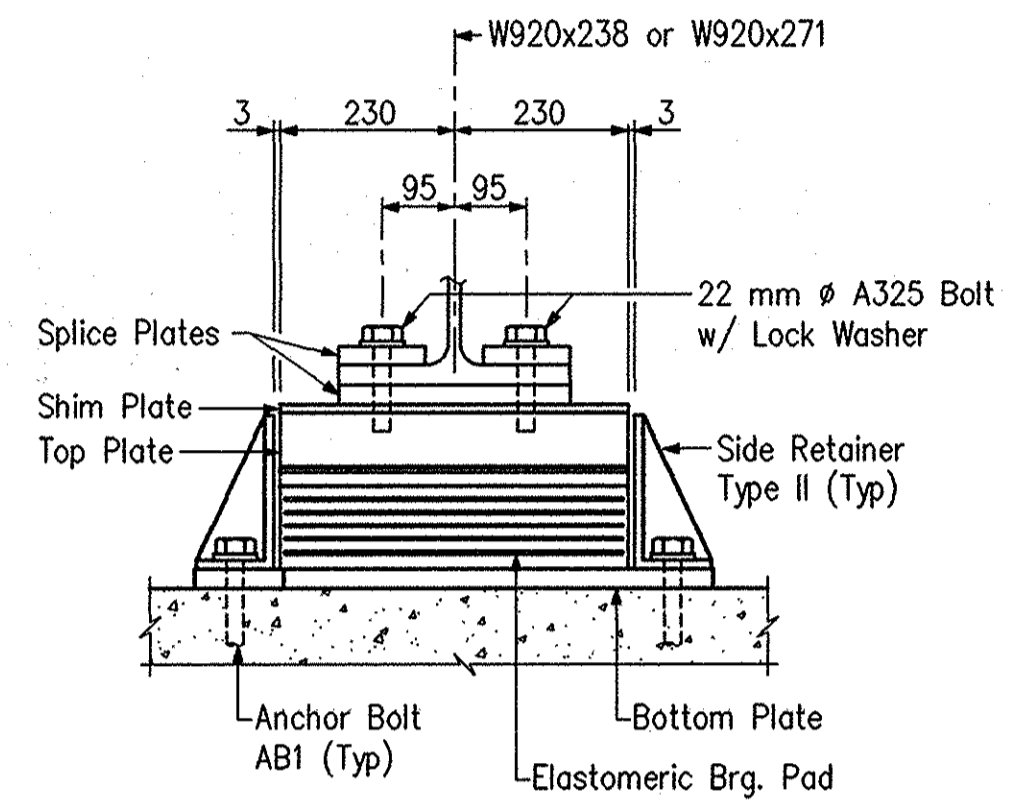


TFE SECTION Scale: 1:1



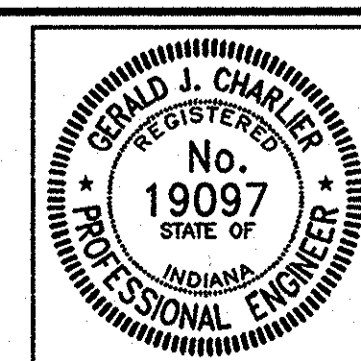
ELASTOMERIC BEARING ASSEMBLIES TYPE II

(40 Req'd)



ELASTOMERIC BEARING TYPE I

ELASTOMERIC BEARING TYPE II

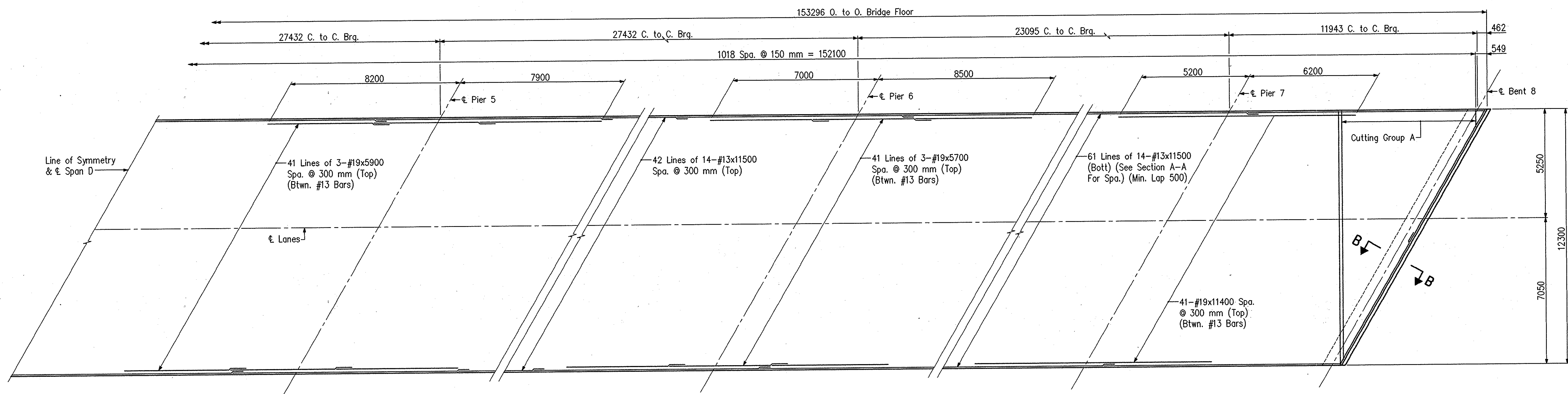
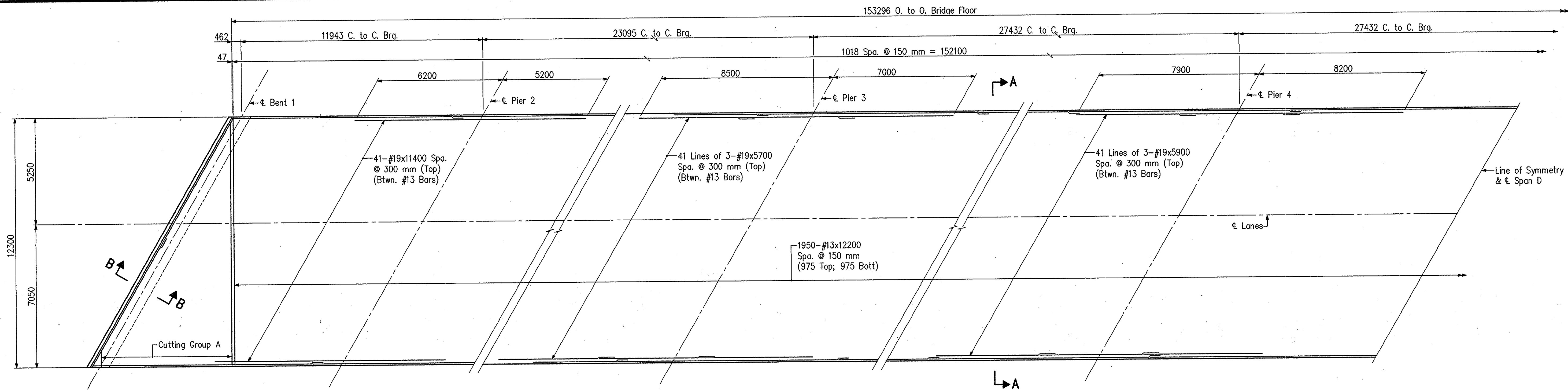


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	7-20-01
DESIGNED:	JCH	DRAWN:
CHECKED:	BWS	CHECKED:
		RGP

INDIANA DEPARTMENT OF TRANSPORTATION
STRUCTURAL STEEL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:10 UON	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	16 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

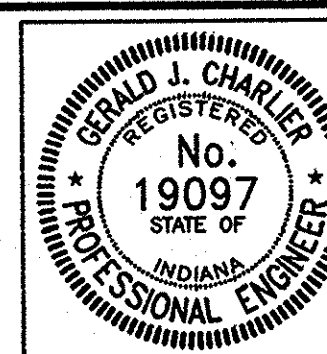
PLOT DATE: 10 JUL 2001
 PLOT TIME: 14:29:36
 FILE NAME: P25754.DWG



PLAN - BRIDGE FLOOR
Scale: 1:100

NOTES

- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
- For bent bar details and Bill of Materials, See Sht. 19.
- For additional floor details, See Sheets 18 & 19.
- All Reinforcing Steel in Bridge Floor to be Epoxy Coated.
- Screed data will be furnished upon request.
- Permanent metal deck forms may be used in lieu of removable forms.
- For end bent details, see shts. 5 thru 6.
- Minimum lap for #22 Bars is 1400 mm.



RECOMMENDED FOR APPROVAL: *[Signature]* 7-20-01
DESIGN ENGINEER DATE

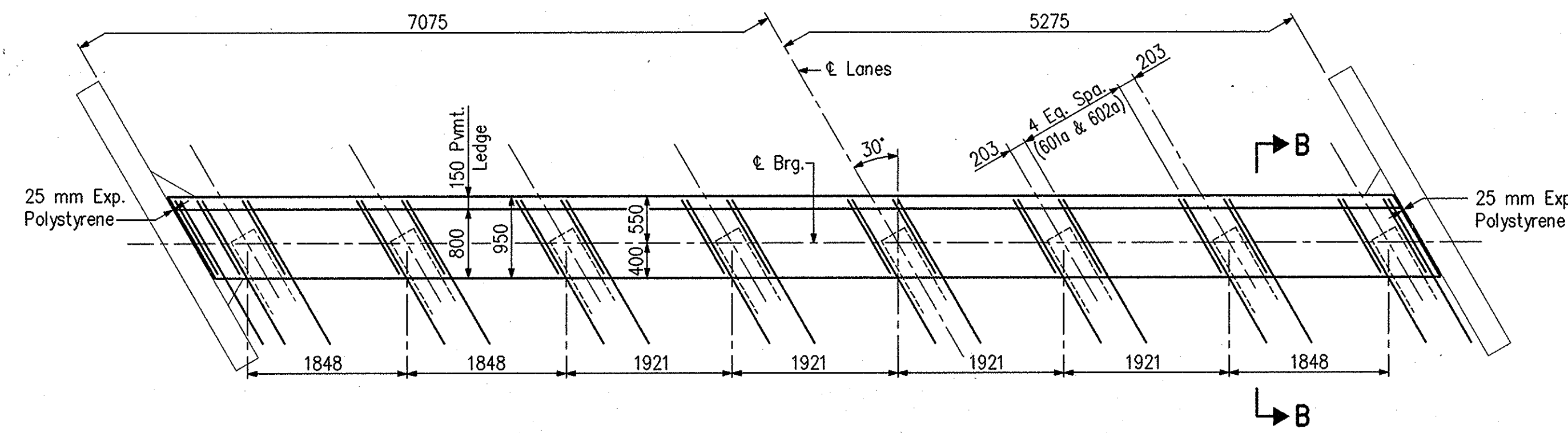
DESIGNED: JCH DRAWN: TWL
CHECKED: GDL CHECKED: RGP

INDIANA DEPARTMENT OF TRANSPORTATION

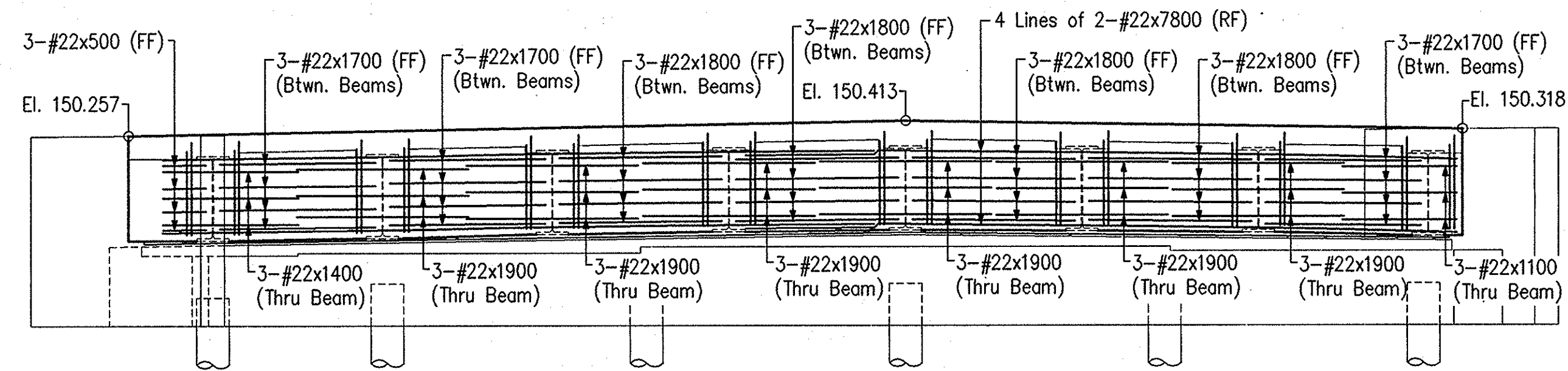
BRIDGE FLOOR DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:100	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	17 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

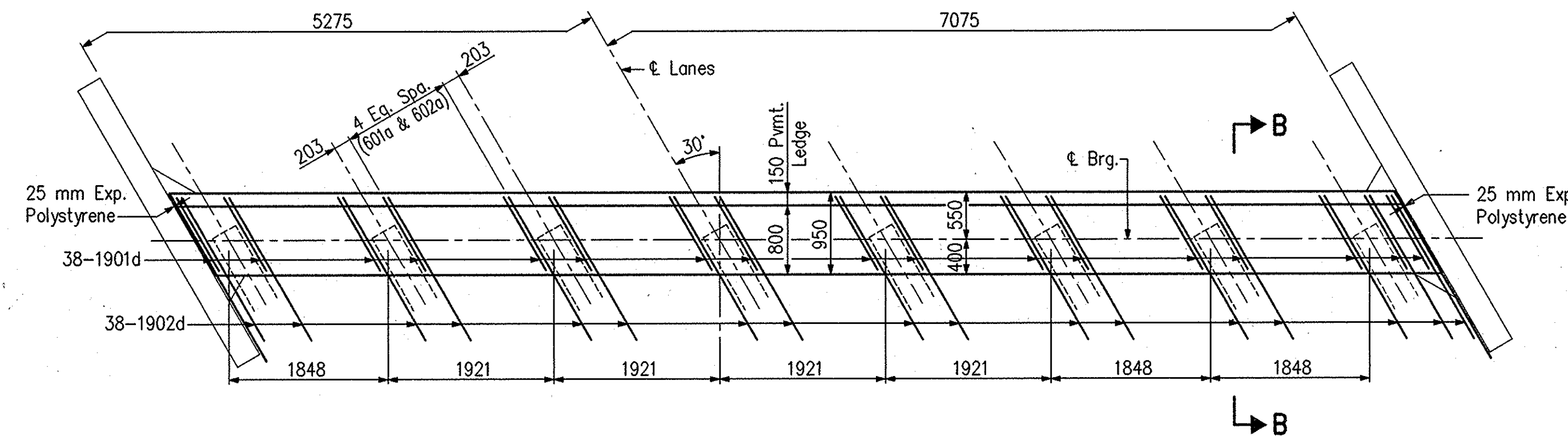
PLOT DATE: 20 JUL 2001
 PLOT TIME: 14:30:15
 PATH: N:\99040\4323C\PLT.DWG
 FILE NAME: 4323C\PLT.DWG



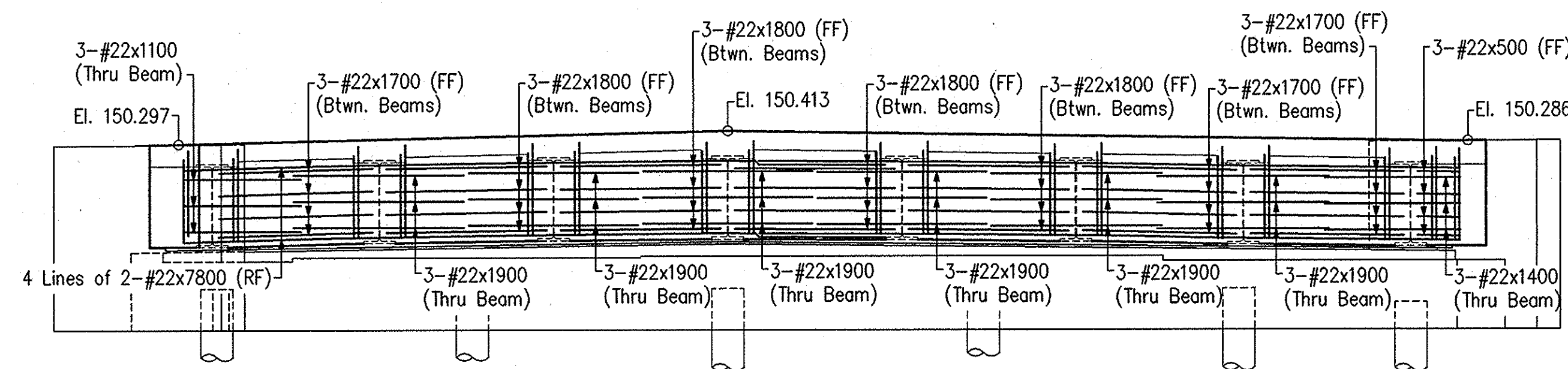
PLAN - BENT 1
Scale: 1:50



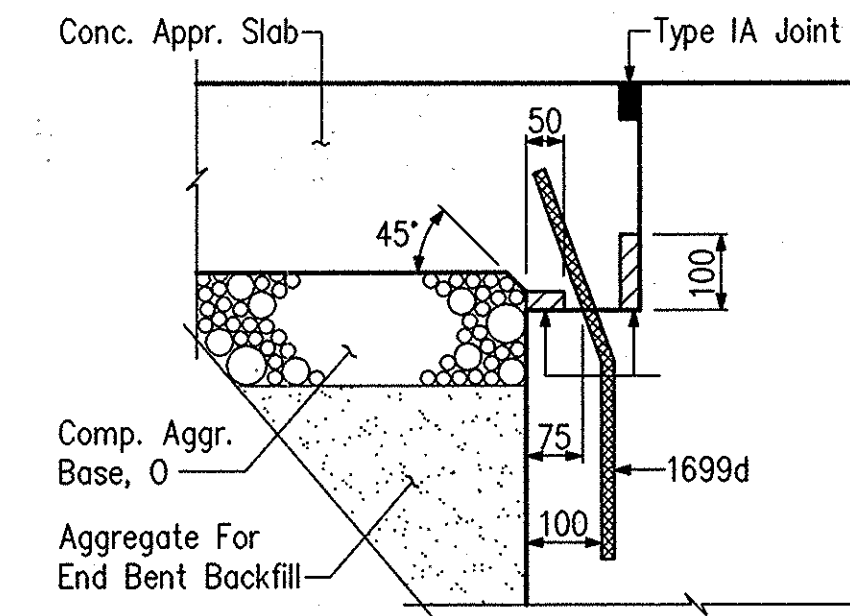
ELEVATION - BENT 1
Scale: 1:50



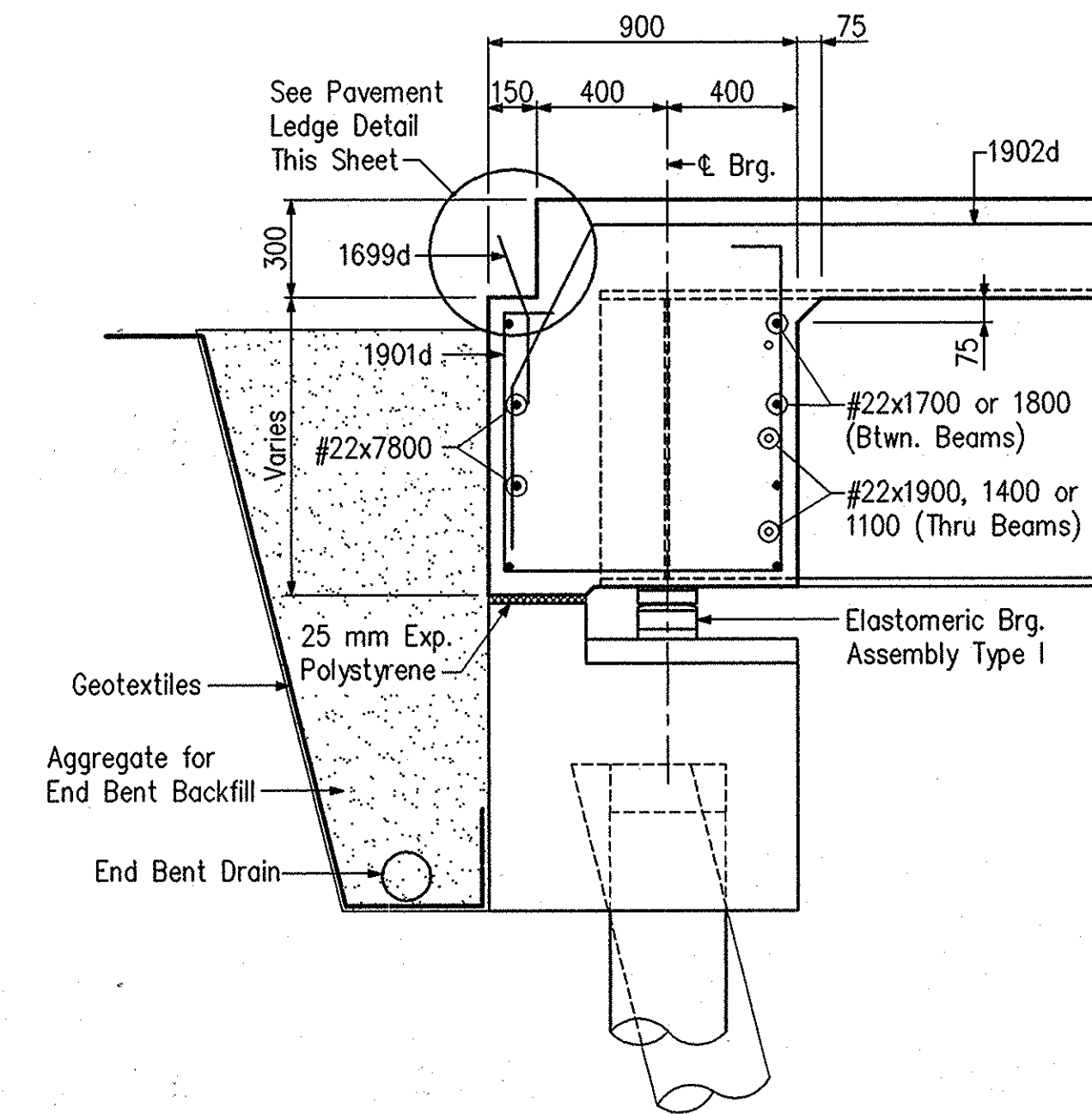
PLAN - BENT 8
Scale: 1:50



ELEVATION - BENT 8
Scale: 1:50



PAVEMENT LEDGE DETAIL
Scale: 1:10

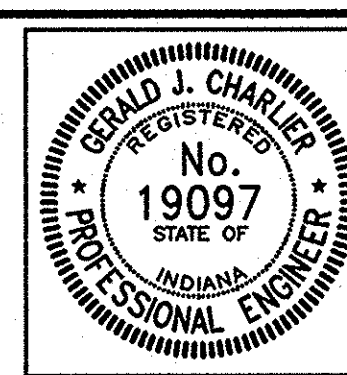


SECTION B-B
Scale: 1:20

NOTES

- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
- For bent bar details and Bill of Materials, See Sht. 19.
- For additional floor details, See Sheets 17 & 19.
- All Reinforcing Steel in Bridge Floor to be Epoxy Coated.
- Screenshot data will be furnished upon request.
- Permanent metal deck forms may be used in lieu of removable forms.
- For end bent details, see shts. 5 thru 6.
- Minimum lap for #22 Bars is 1400 mm.

IN: 99040
 PLOT DATE: 02 JUL 2001
 PLOT TIME: 16:05:45
 PLOT NAME: 4329FERS.DWG



RECOMMENDED FOR APPROVAL: *[Signature]* 7-20-01
 DESIGN ENGINEER DATE
 DESIGNED: JCH DRAWN: TWL
 CHECKED: GDL CHECKED: RGP

INDIANA
DEPARTMENT OF TRANSPORTATION

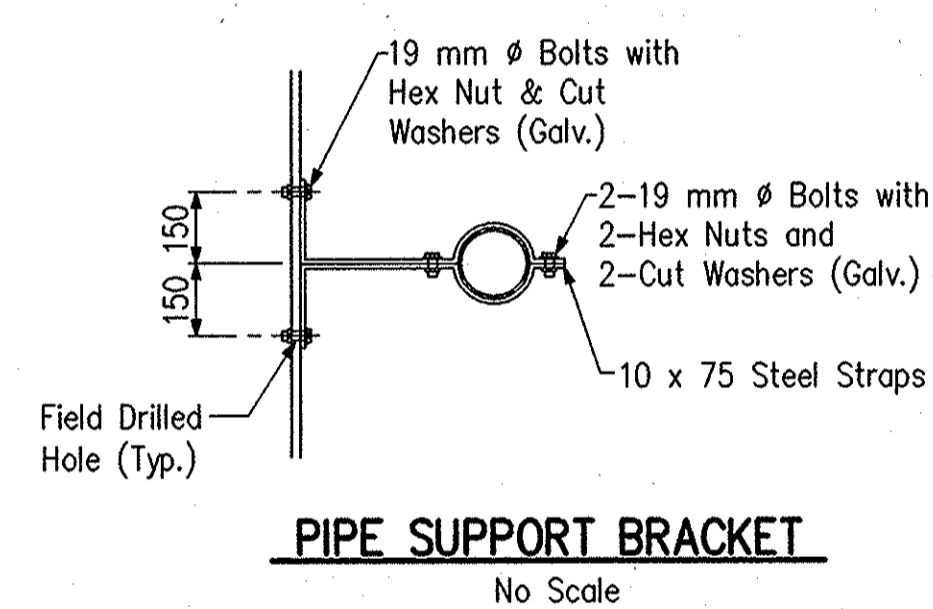
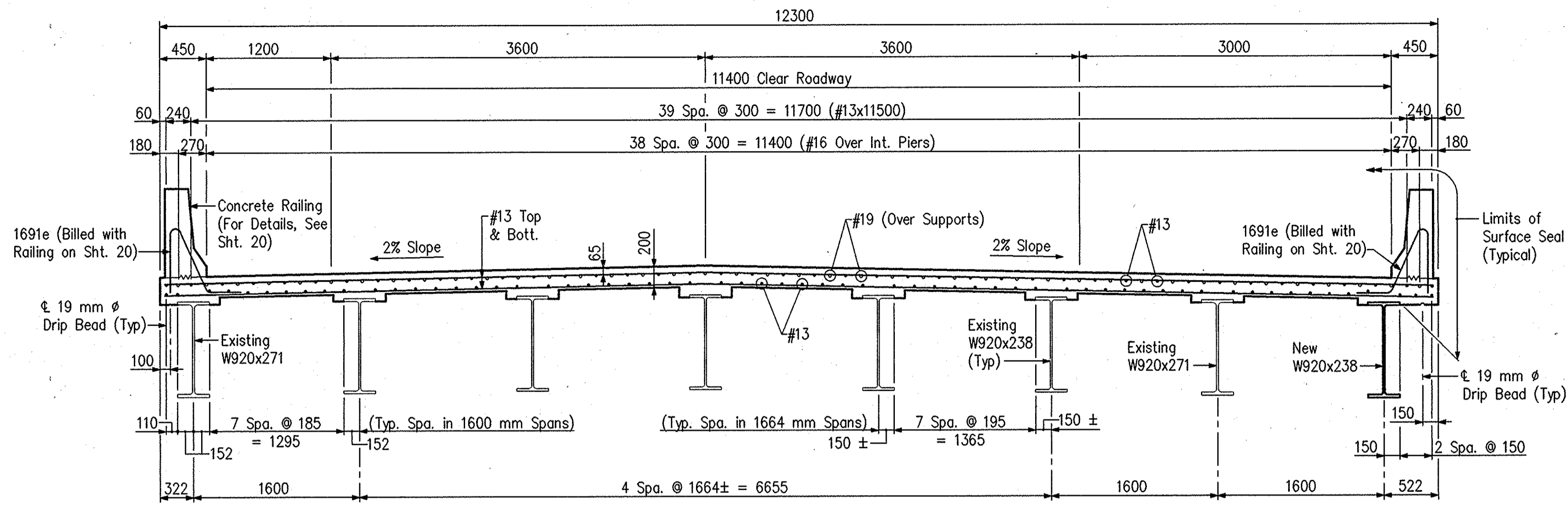
BRIDGE FLOOR
DETAILS

HORIZONTAL SCALE 1:50	BRIDGE FILE 63-83-4323C
VERTICAL SCALE	DESIGNATION 9900540
SURVEY BOOK	SHEETS 18 of 22
CONTRACT B 25754	PROJECT NH-017-9()

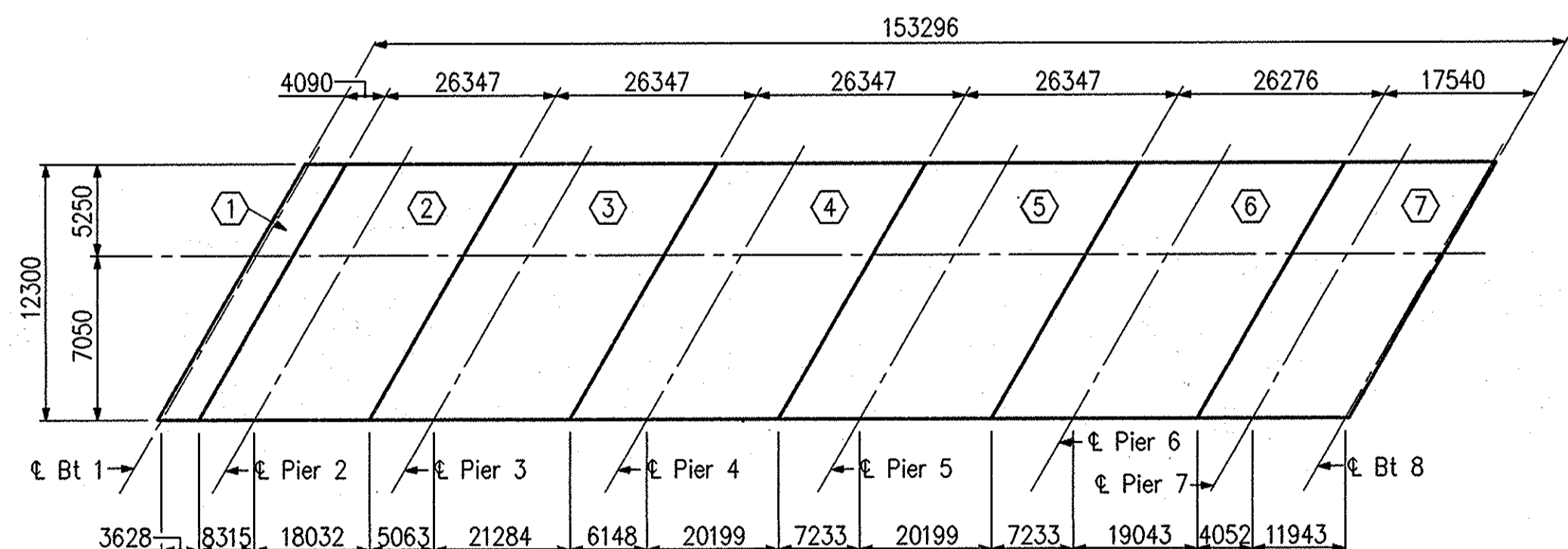
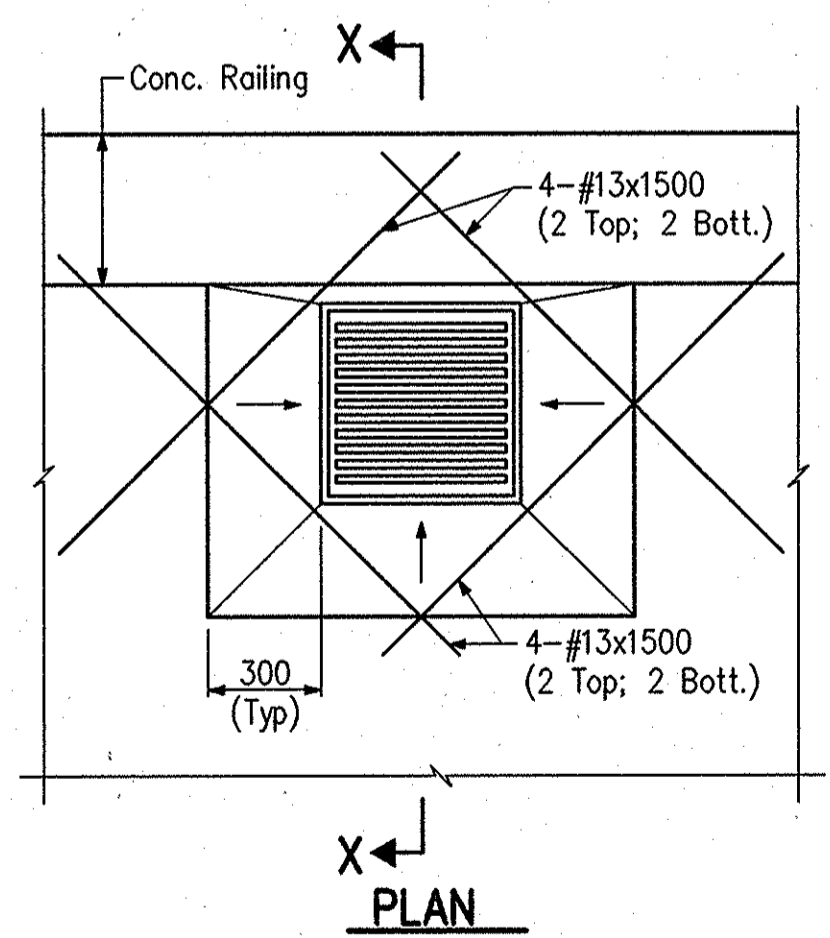
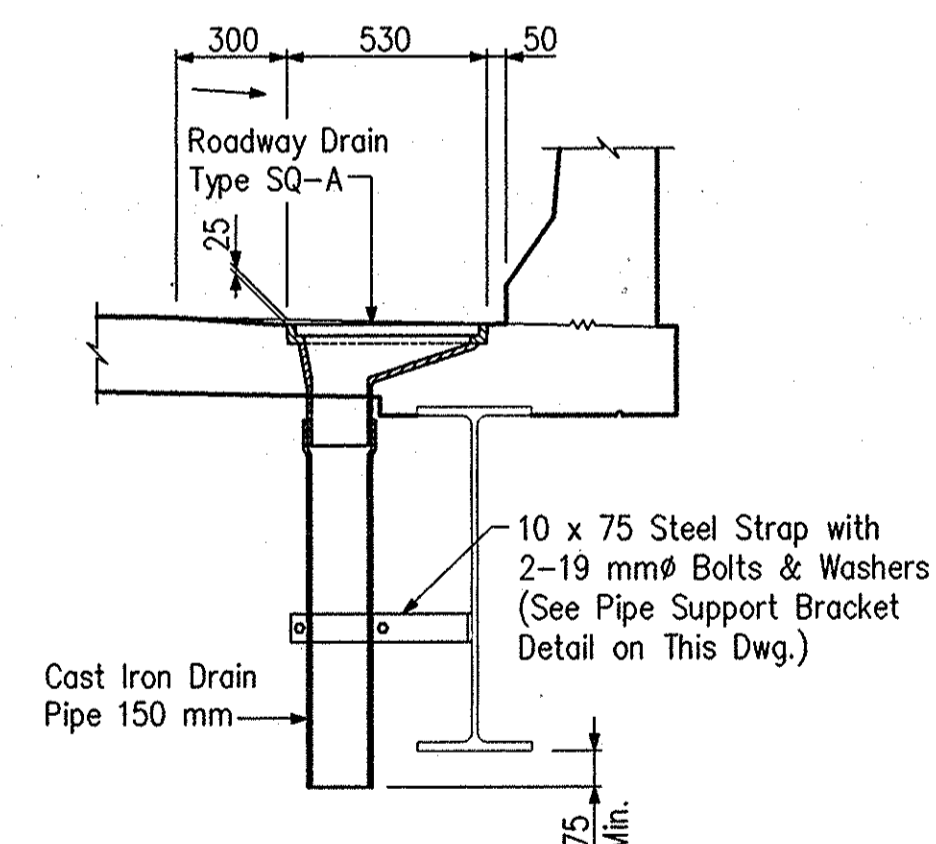
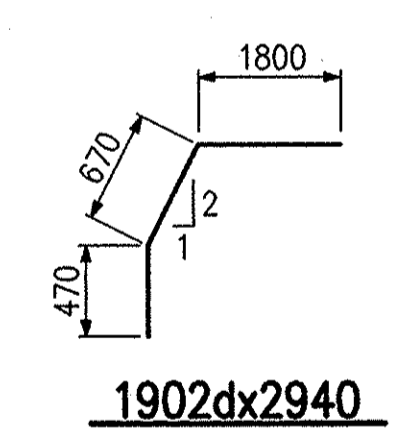
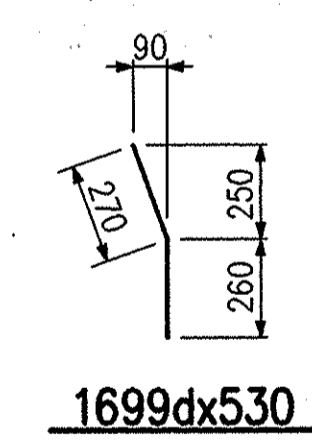
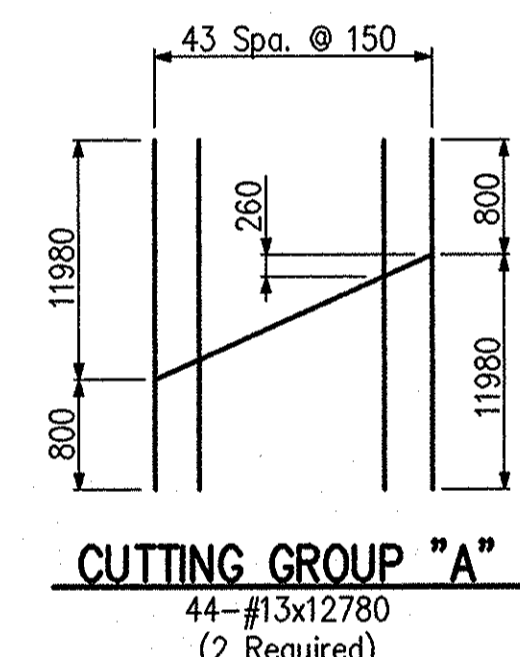
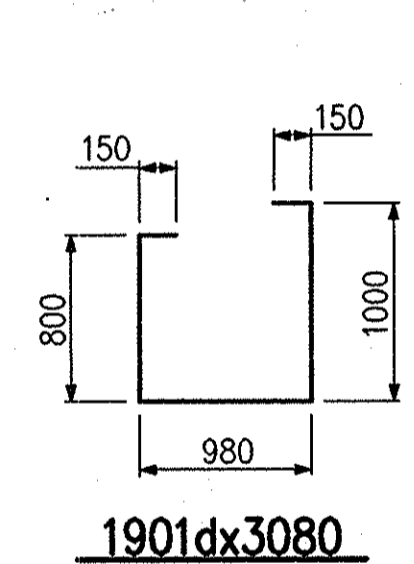
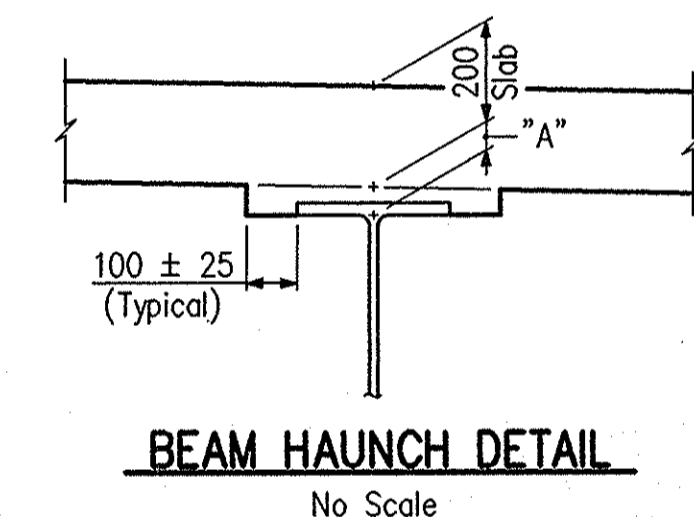
BILL OF MATERIALS

Bridge Floor

REINFORCING STEEL			
SIZE OR MARK	NO. OF BARS	LENGTH	MASS kg
EPOXY COATED REINFORCING			
#22	16	7800	
#22	36	1900	
#22	24	1800	
#22	18	1700	
#22	6	1400	
#22	6	1100	
#22	6	500	
Total #22 Bars			867
#19	76	3080	
#19	76	2940	
#19	82	11400	
#19	246	5900	
#19	246	5700	
Total #19 Bars			9490
#13	1950	12200	
#13	1442	11500	
#13	208	1500	
Total #13 Bars			40441
Total Epoxy Coated Reinforcing Steel			50798
CONCRETE			
Concrete, C, Superstructure			
Pour No. 1	22.7	m ³	
Pour No. 2	73.6	m ³	
Pour No. 3	73.6	m ³	
Pour No. 4	73.6	m ³	
Pour No. 5	73.6	m ³	
Pour No. 6	73.4	m ³	
Pour No. 7	62.9	m ³	
Total Concrete, C, Superstructure			453.4 m ³
MISCELLANEOUS			
Pipe Drain, Cast Iron, 6"			558 kg
Cast Iron Grates, Basins & Fittings			2265 kg
Surface Seal (Rail to Rail)			1748 m ²



Beam Line	Dimension "A"
1	71
2	68
3	80
4	102
5	80
6	68
7	71
8	64

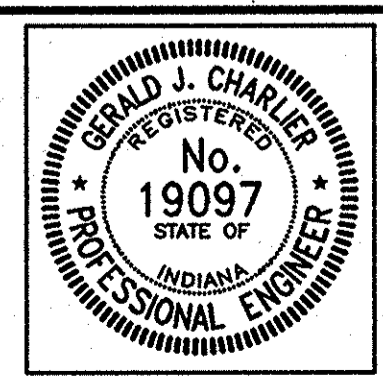


NOTES

- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For Construction Joint Type "A", see Br. Std. 724-BJTS-01.
- For end bent details, see shts. 5 thru 6.
- For concrete railing details, see sht. 20.
- For roadway drain details, see Br. Stds. 704-BDCC-01 thru -05.
- For additional floor details, location of Sections A-A & B-B, and pour diagram, see sht. 17-18.
- Permanent metal deck forms may be used in lieu of removable forms.
- Screenshot data will be furnished upon request.
- Sequence of pours to be made in order of pour numbers.
- Min. lap for #13 bars is 500 mm.
- Min. lap for #16 bars is 750 mm.

- NOTES:**
- Cut and bend new reinf. as necessary to allow for drain installation.
 - 26 Drains Required

ROADWAY DRAIN DETAILS
Scale: 1:20



RECOMMENDED FOR APPROVAL: *[Signature]* 7-20-01 DATE
DESIGN ENGINEER

DESIGNED: JCH DRAWN: TWL
CHECKED: GDL CHECKED: RGP

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FLOOR DETAILS

HORIZONTAL SCALE 1:33.3	BRIDGE FILE 63-83-4323C
VERTICAL SCALE	DESIGNATION 9900540
SURVEY BOOK	SHEETS 19 of 22
CONTRACT B 25754	PROJECT NH-017-9()

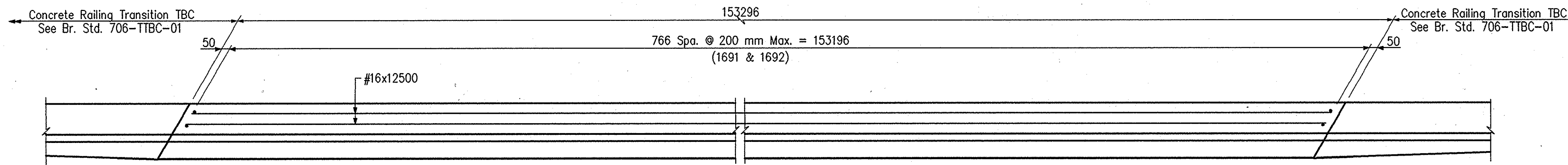
N: 990040
 PLOT DATE: 20 JUL 2001
 PLOT TIME: 16:08:00
 PATH: \\S:\P\25754\BRIDGE\DWG

BILL OF MATERIALS

Quantities for 1 Rail; 2 Required

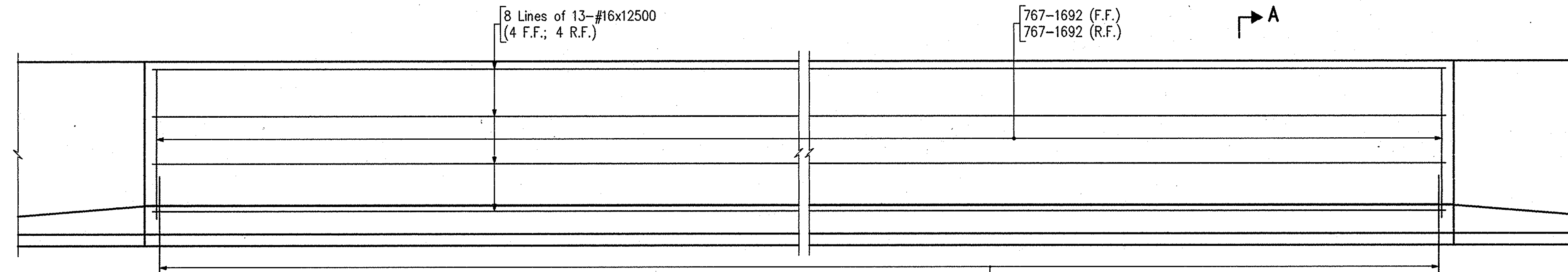
REINFORCING STEEL			
SIZE OR MARK	NO. OF BARS	LENGTH	MASS (Kg)
EPOXY COATED REINFORCING			
1691	767	1680	
1692	1534	920	
#16	104	12500	
Total #16 Bars			6208
TBC Transition *			201
Total Epoxy Coated Reinforcing Steel			6409
MISCELLANEOUS			
Railing, Concrete, C			154 m
Barrier Delineators			12 Each
Surface Seal			404 m ²
Concrete Railing Transition, TBC			2 Each

* Quantity From Std. Dwg. 706-TTBC-03



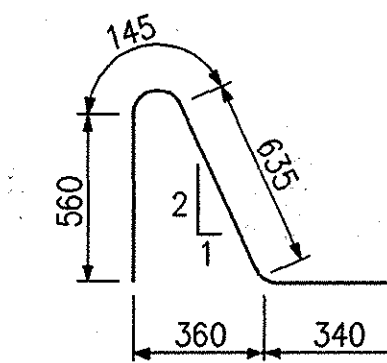
RAILING PLAN

Scale: 1:20

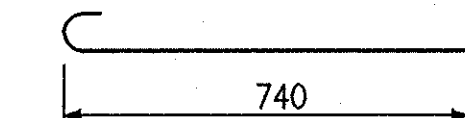


RAILING ELEVATION

Scale: 1:20



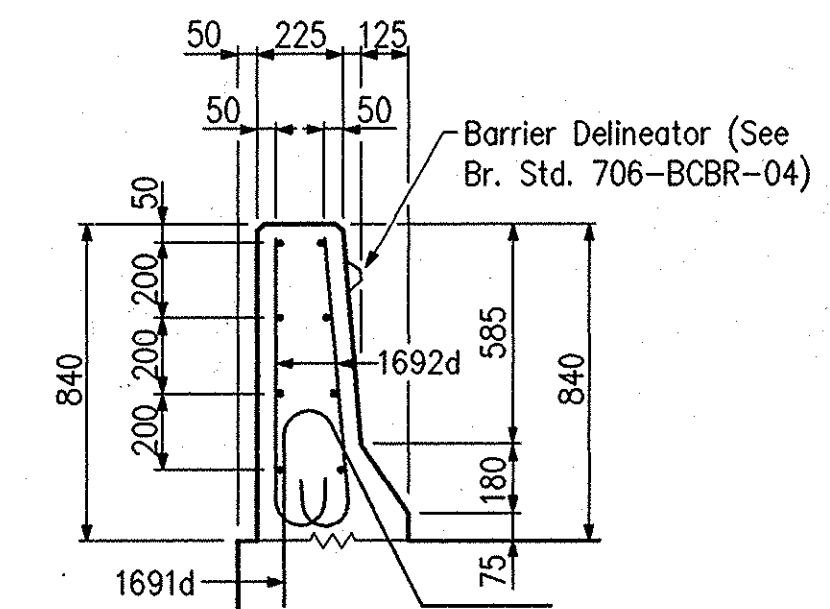
1691x1680



1692x920

NOTES:

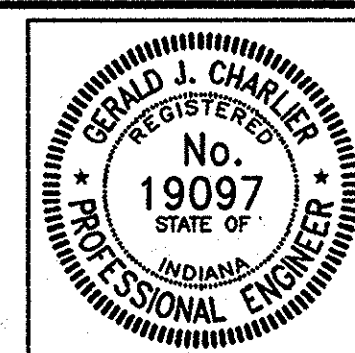
- For Reinforcing Bar Notes & Bar Bending Details, see Std. Dwg. 703-BRST-01.
- For Guardrail Connection Details, see Std. Dwg. 706-CBRT-02.
- Reinforcing Steel in Concrete Barrier Rail to be Epoxy Coated.
- Concrete in Barrier Rail to be Class "C".
- For Construction Joint Type A, See Std. Dwg. 724-BJTS-01.
- For Concrete Railing Transition, see Std. Dwg. 706-TTBC-01 Thru 706-TTBC-03.
- For Barrier Delineator Placement, See Std. Dwg. 706-BCBR-04.
- Min. Lap for #16 Bar is 750 mm.



SECTION A-A

Scale: 1:20

IN: 9900540
 PLOT DATE: 20 JUL 2001
 PLOT TIME: 14:35:18
 PLOT NAME: P523PAC.DWG



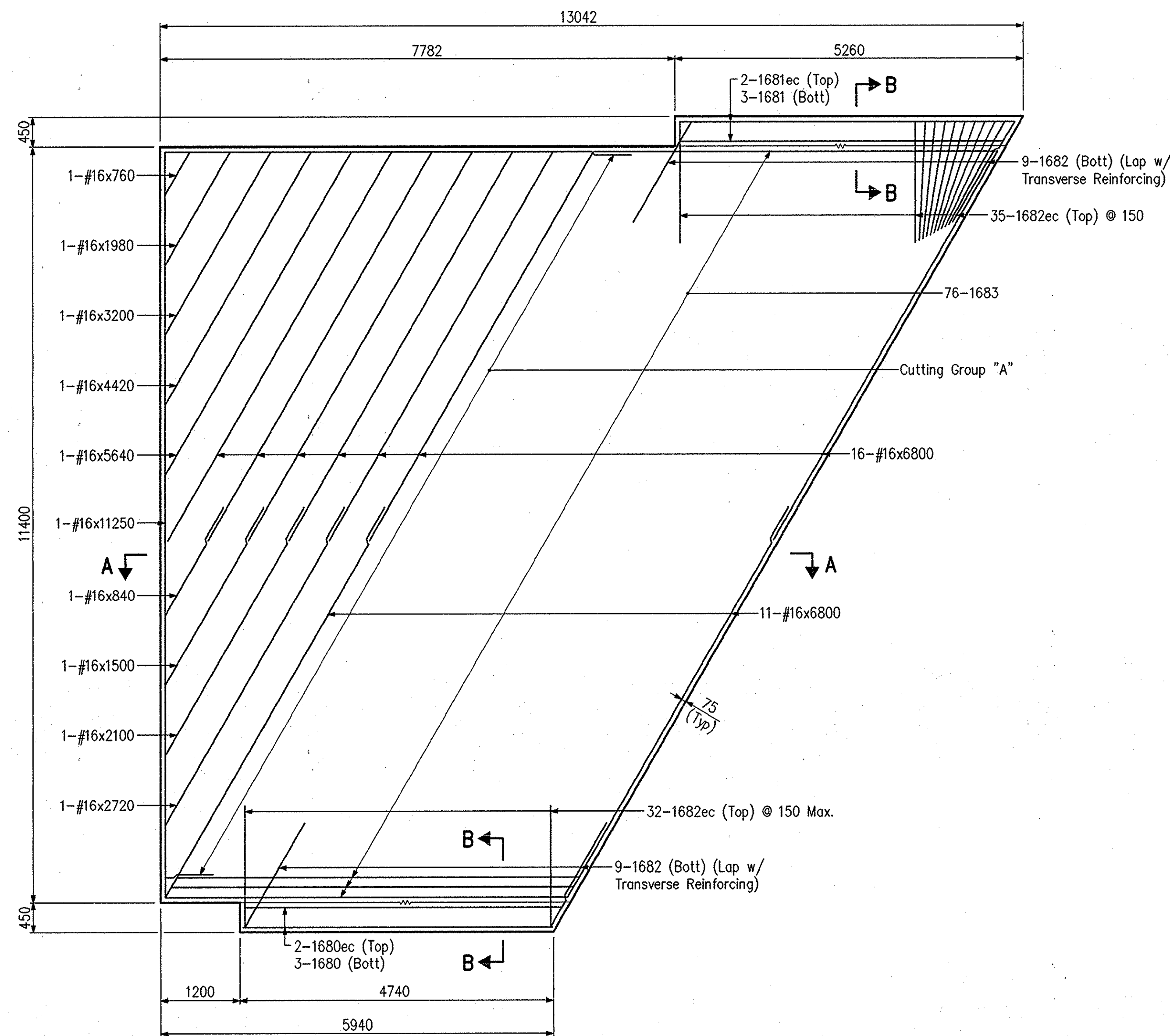
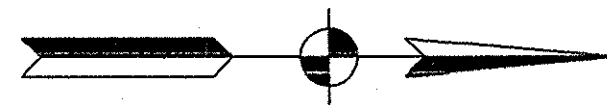
RECOMMENDED FOR APPROVAL: *Gerald J. Charles*
 DESIGN ENGINEER DATE: 7-20-01

DESIGNED: TWL DRAWN: TWL
 CHECKED: GDL CHECKED: RGP

INDIANA DEPARTMENT OF TRANSPORTATION

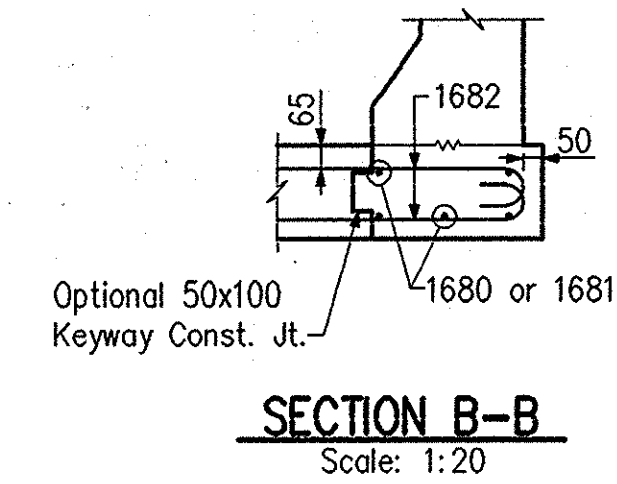
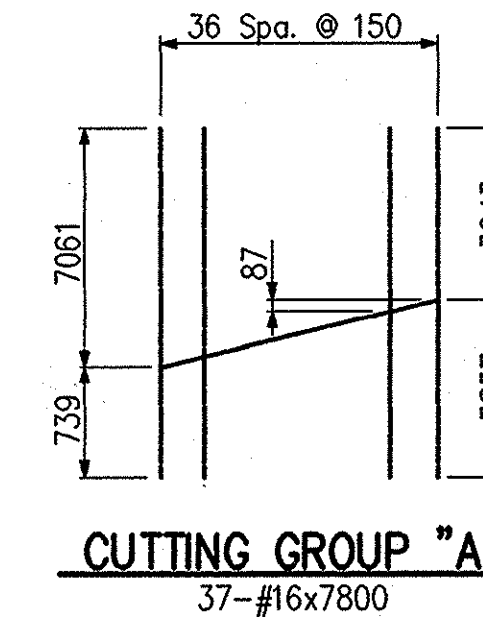
CONCRETE RAILING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:20	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	20 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()



SOUTH APPROACH SLAB
(North Approach Slab Same By 180° Rotation)
Scale: 1:50

Mark	X	Length
1680	4680	4860
1681	4930	5110
1682	1840	2020
1683	6080	6260



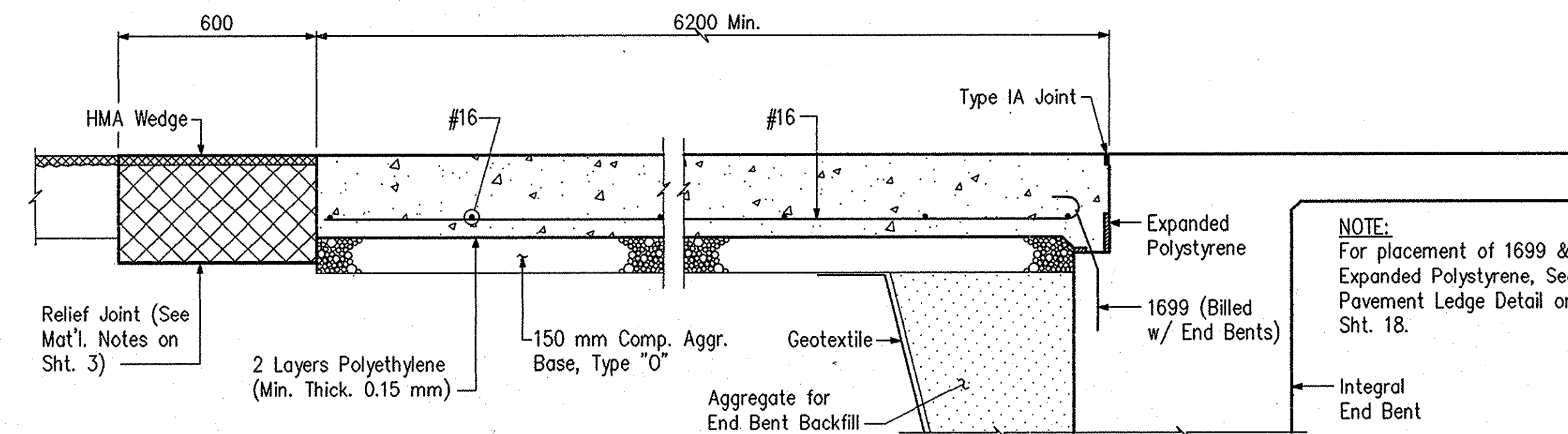
SECTION B-B
Scale: 1:20

BILL OF MATERIALS
Quantities for 1 Approach; 2 Required

REINFORCING STEEL			
SIZE OR MARK	NO. OF BARS	LENGTH	MASS (kg)
EPOXY COATED REINFORCING			
1680ec	2	4680	
1681ec	2	5110	
1682ec	67	2020	
Total #16 Bars			240
Total Epoxy Coated Reinforcing Steel			240
PLAIN REINFORCING			
1680	3	4860	
1681	3	5110	
1682	18	2020	
1683	76	6260	
#16	1	11250	
#16	37	7800	
#16	27	6800	
#16	2	5700	
#16	2	4500	
#16	2	3200	
#16	2	2000	
#16	2	800	
Total #16 Bars			1642
Total Plain Reinforcing Steel			1642
CONCRETE			
Cement Conc. Pavement Reinf., 250			113 m ²
MISCELLANEOUS			
Type "O" Comp. Aggr. for Base			40 Mg
Pavement, Remove			87 m ²
Surface Seal			108 m ²

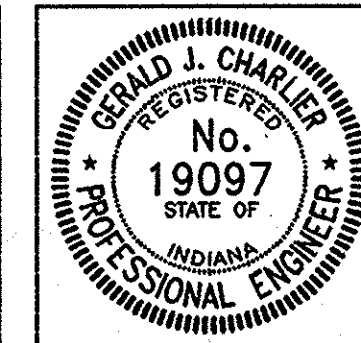
NOTES

- For reinforcing bar notes and bar bending details, see Bridge Standard 703-BRST-01.
- For concrete railing details, see Sht. 20.
- For Additional. Appr. Slab Info., See Rd. Std. 610-RCBA-02.
- e.c. Indicates Epoxy Coated
- Min. Lap for a #16 Bar is 550 mm.



SECTION A-A
Scale: 1:20

PLOT DATE: 02 JUL 2001
 PLOT TIME: 14:38:15
 IN: 99040
 PATH: R323PPR.DWG



RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	7-20-01
DESIGNED:	TWL	DRAWN:
CHECKED:	RGP	CHECKED:

INDIANA
DEPARTMENT OF TRANSPORTATION

R.C. APPROACH
SLAB DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1:50 UON	63-83-4323C
VERTICAL SCALE	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	21 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE			CONCRETE RAILING TRANSITION TBC	CONCRETE RAILING CLASS C	REINF. STEEL	EPOXY COATED REINF. STEEL	STRUCT. STEEL**	ANCHOR PLATES MK-AP	PILES											CAST IRON DRAIN PIPE	CAST IRON GRATES, BASINS, & FITTINGS	EXP. JOINT TYPE	EXP. JOINT CLASS	CONC. STR. MEMBERS		BARRIER DELIN-EATORS	SURFACE SEAL **	FIELD DRILLED HOLES IN CONCRETE					
	CLASS C	CLASS A	CLASS B							NO.	m	NO.	m	NO.	m	NO.	m	NO.	m	NO.					m	BOX BEAMS TYPE				I BEAM TYPE				
	SUPERSTR	SUBSTR	IN FIG.																															
BENT NO. 1		15.6					1235				1	10																						
PIER NO. 2		19.5	13.3			1351					6	63																			7			
PIER NO. 3		22.3	15.7			1047					8	80																		91				
PIER NO. 4		22.3	15.7			1047					8	80																		91				
PIER NO. 5		23.7	17.9			1108			8		8	80																		91				
PIER NO. 6		22.3	15.7			1047					8	80																		91				
PIER NO. 7		19.5	13.3			1351					6	63																		7				
BENT NO. 8		14.3					1184				1	10																						
SUPERSTRUCTURE	453.4							50798	106197																									
CONCRETE RAILING					4	308		12818																			24	1748	808					
REINF. STEEL FOR BR. APPR.								3284	480																									
CONC. RAILING ON BR. APPROACH																																		
TOTALS	453.4	159.5	91.6		4	308	10235	66515		8	46	466															558	2265				24	2556	378

** ESTIMATED QUANTITY

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RAII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION	CLEAR ZONE AT DRIVE	HMA FOR APPROACHES				ASPHALT MATERIAL FOR							COMPACTED AGGREGATE FOR SURFACE NO. 73						REMARKS											
						COMPACTED AGGREGATE BASE	BITUMIN.	CONCRETE				VARIABLE	180	1020	720	SURFACE	BINDER	BASE	BASE	BASE	BASE	BASE	BASE	BITUMINOUS BASE 5D	SEAL COAT TYPE 2	SEAL COAT TYPE 5	PRIME COAT	TACK COAT		DEPTH			DEPTH							
						m²	m²	m²				m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	m²		m²	m²	m²	m²	m²	m²	m²	m²	m²	m²	
						%	%	%				%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%
						Varies	180	1020				720	Surf	Binder	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base		Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	
Wedge South Approach												826																												
Shoulder South Appr.													26																											
Relief Joint South Appr.																																								
Crossover South Approach																																								
Wedge North Approach												826																												
Shoulder North Appr.													7																											
Relief Joint North Appr.																																								
Crossover North Approach																																								
TOTALS												1659	26	8	986																									

STRUCTURE DATA

* IF CONTRACTOR ELECTIONS TO USE METAL PIPE, THICKNESS AS SHOWN BELOW ARE TO BE USED.

STRUCTURE NUMBER	LOCATION		DESCRIPTION		FLOW LINE				BACKFILL METHOD	"B" BORROW FOR STR. BACKFILL	THICKNESS		VELOCITY	REVEINMENT RIPRAP	CONCRETE CLASS "A"	PIPE END SECTION	GRATED BOX END SECTION	CONNECT TO STR.	REMARKS
	STATION	LEFT	RIGHT	SIZE	GROUP	UP	DOWN	COVER			STEEL *	ALUM. *							
		LEFT	RIGHT			STREAM	STREAM				m	mm							
						ELEV.	ELEV.												

UNDERDRAIN TABLE

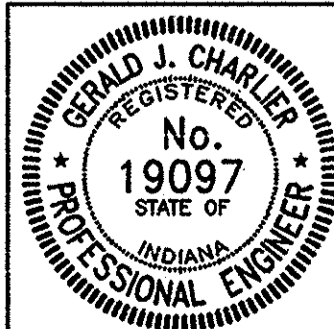
STATION	0.150 GROUP "K" PIPE	AGGREGATE UNDERDRAINS	GEOTEXTILES	OUTLET														REMARKS				
				AT STATION		ELBOWS				TEES				NO. LEG NON-RFC'S PIPE					SODDING	DELINATOR POST	OUTLET THRU SHOULDER CONNECT TO STR. NO.	CONNECT TO UNDERDRAIN
				ELBOWS	WYE	EACH		EACH		EACH		EACH		SODDING	DELINATOR POST	OUTLET THRU SHOULDER CONNECT TO STR. NO.	CONNECT TO UNDERDRAIN					
				45	90	TEES	WYE	NON-RFC'S	RFC'S	SODDING	DELINATOR POST	CONNECT TO UNDERDRAIN										
ELBOWS, TEE & WYE EQUIVALEANCE																						
TOTALS																						

PAVED SIDE DITCH AND SODDING SUMMARY TABLE

FROM STATION	TO STATION	PAVED SIDE DITCH		RIPRAP DITCH			SODDING					NURSERY SODDING FOR LAWNS	
		TOTAL EQUIVALENT PAY LENGTHS		REVEINMENT RIPRAP	UNIFORM RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE		TOTAL SODDING
		LEFT	RIGHT										
TOTALS													

REVISIONS

DATE	ITEM



RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER
 DATE: 7-20-01
 DESIGNED: TWL
 DRAWN: JDL
 CHECKED: RGP
 CHECKED: RGP

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	63-83-4323C
	DESIGNATION
	9900540
SURVEY BOOK	SHEETS
	22 of 22
CONTRACT	PROJECT
B 25754	NH-017-9()