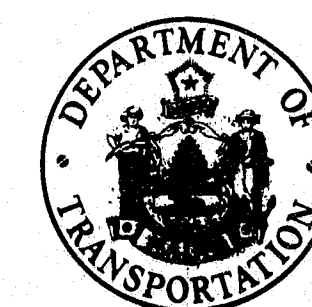


# STATE OF MAINE DEPARTMENT OF TRANSPORTATION

F.H.W.A. DIST. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	M-0201(3)	1	14

CONVENTIONAL SIGNS	
COUNTY LINES	=====
TOWN LINES	-----
PROPERTY LINES	=====
R/W LINES - EXISTING	=====
R/W LINES - NEW - ACCESS CONTROL	=====
R/W LINES - NEW - NO ACCESS CONTROL	=====
CULVERT - EXISTING	=====
CULVERT - PROPOSED	=====
CURBING - EXISTING	=====
CURBING - PROPOSED	=====
TRAVELLED WAY - EXISTING	=====
TRAVELLED WAY - PROPOSED	=====
UNDERGROUND UTILITIES - EXISTING	=====
UNDERGROUND UTILITIES - PROPOSED	=====
RAILROAD - SINGLE TRACK	=====
RAILROAD - DOUBLE TRACK	=====
UTILITY POLE - EXISTING	=====
UTILITY POLE - JOINT OCCUPANCY	=====
PROPOSED UTILITY POLE - TEMPORARY	=====
PROPOSED UTILITY POLE - PERMANENT	=====
TREES	=====
WOODS	=====

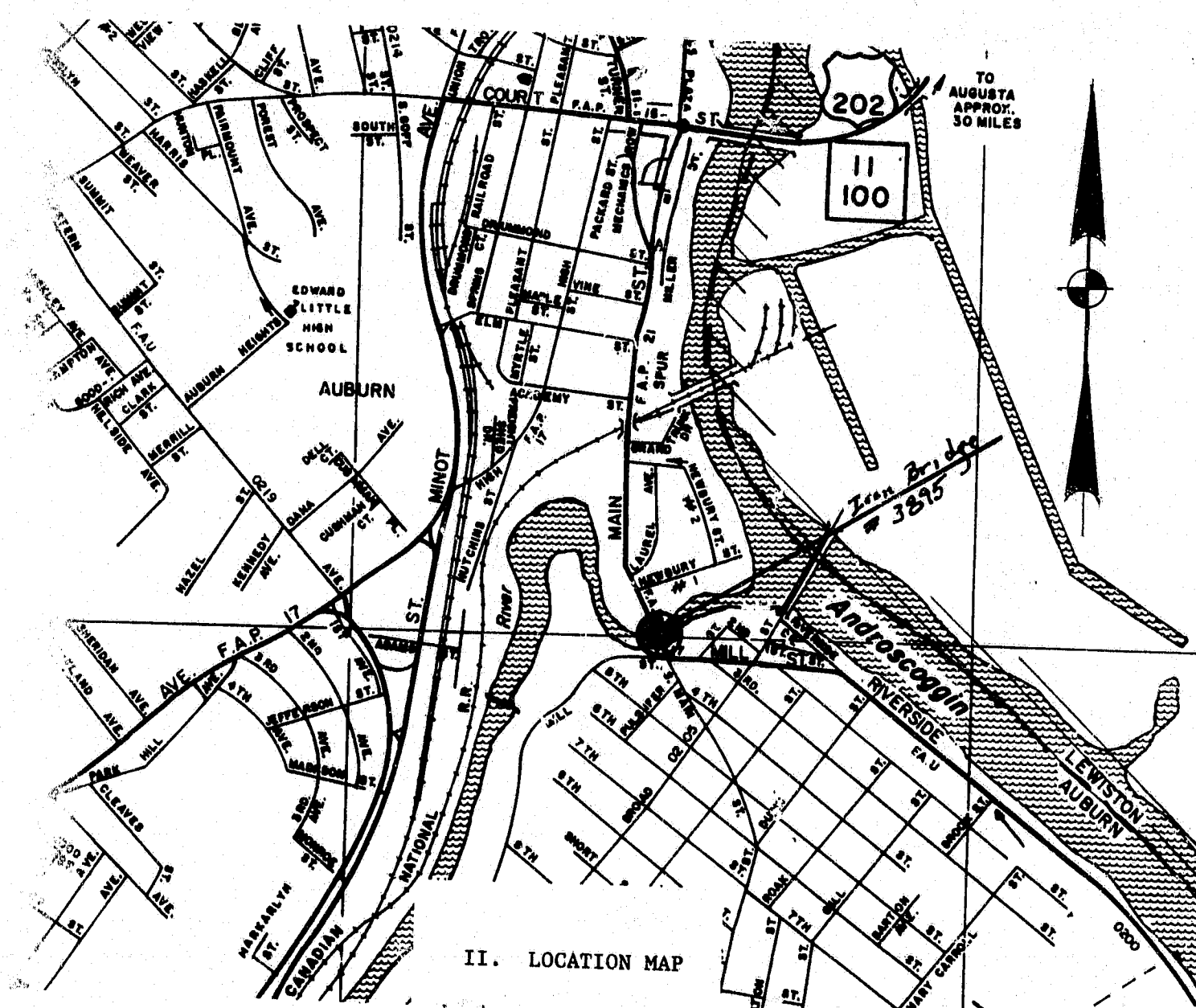


PLANS

## IRON BRIDGE OVER THE LITTLE ANDROSCOGGIN RIVER IN THE CITY OF AUBURN ANDROSCOGGIN COUNTY

### DECK REPLACEMENT

PROJECT NO. M-0201(3)  
LENGTH OF PROJECT 0.018 MILES



#### TRAFFIC DATA

AADT (1991)	18,080
AADT (2011)	25,310
DHV (% OF AADT)	11
DHV	2,784
T (%AADT)	7
T (%DHV)	7
D (%)	53
18 KIP EQL (P2.0)	438
18 KIP EQL (P2.5)	429

#### NOTE

All work contemplated under this contract to be governed by and in conformity with the STANDARD SPECIFICATIONS (revision of OCTOBER 1990) and supplementals thereto, except as modified on the plans and in the special provisions.

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITY AND NOTES
3	GENERAL PLAN AND PROFILE
4	TRANSVERSE SECTIONS FOR STAGE CONSTRUCTION
5	APPROACH SECTIONS AND DETAILS
6	DECK PLAN AND DETAILS
7	DECK SECTION AND DETAILS
8	STEEL DETAILS AND HAUNCH TABLE
9	PEDESTRIAN HANDRAIL AND DECK DRAINAGE
10	REINFORCING STEEL SCHEDULE
11 - 13	TRAFFIC CONTROL PLANS
14	BRIDGE STANDARD DETAILS BD 521-89 SUPERSTRUCTURE DETAILS

SPECIFICATIONS	
DESIGN:	AASHTO Standard Specifications for Highway Bridges (1989) with Interim Specifications through 1990.
CONTRACT:	Maine Department of Transportation Standard Specifications for Highways and Bridges (Oct. 1990).
DESIGN LIVE LOAD	
CONCRETE SLAB - HS 25	
STRUCTURAL STEEL (EXISTING) - HS 20	
MATERIALS	
CONCRETE:	Wearing Surface - Class AAR All other - Class A
REINFORCING STEEL:	ASTM A615, GRADE 60
BASIC DESIGN STRESSES	
CLASS A CONCRETE: $f'_c$	= 3,000 psi
REINFORCING STEEL: $F_y$	= 60,000 psi

RECOMMENDED BY:



Ryan-Biggs Associates, P.C.  
291 River Street  
Troy, New York 12180  
(518) 272-6266

H. Daniel Rogers  
H. DANIEL ROGERS, P.E.

Nov. 19, 1991  
DATE

APPROVED:

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
COMMISSIONER

DATE

12/3/91

Richard A. Coleman  
CHIEF ENGINEER

12/3/91

UNITED STATES  
DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
REGION 1

APPROVED:

DIVISION ADMINISTRATOR DATE

AS Built  
10/27/92  
M. Steele

109-132

146



[illegible]

Estimate of Lump Sum Quantities			
202.121	REMOVING EXISTING CONCRETE	117	CY
202.127	REMOVING OF EXISTING BITUMINOUS PAVEMENT	28	S.Y.
202.17	REMOVAL OF EXISTING STRUCTURAL CONCRETE	3.3	CY
502.26	STRUC. CONC. ROADWAY AND SIDEWALK SLAB ON STEEL BRIDGE	115	CY
502.29	STRUC. CONC. WEARING SURFACE ON BRIDGE	30	CY
505.08	SHEAR CONNECTORS	3420	EA
502.411	SILICA FUME ADDITIVE	5800	LBS.
506.17	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	272,360	LBS.
506.172	FIELD PAINTING EXISTING STRUCTURAL STEEL (ZHP-1)	272,360	LBS.
506.18	CONTAMINANT and POLLUTION CONTROL	272,360	LBS.
506.19	DISPOSAL OF HAZARDOUS or TOXIC MATERIAL	272,360	LBS.

1. Drawings of the existing bridge are available for the Contractor's reference at the bridge design; office in Augusta. The drawings are reproductions of original drawings as prepared for the construction of the bridge and it is very unlikely that the drawings will show any construction field changes or any alterations which may have been made to the bridge during its life span.
2. The Contractor shall examine and verify in the field all existing conditions and dimensions shown on the Drawings. If field conditions and dimensions differ from those shown on the Drawings, the Contractor shall use the field conditions and dimensions and make the appropriate changes to those shown on the Drawings as approved by the Engineer. The results of this check of conditions and dimensions shall be so noted on the Shop Drawings submitted for approval.
3. *The concrete for the structural wearing surface shall contain a silica fume additive.*

109-133

PIN 4260.00  
BRIDGE NO. 3895 FIELD BOOK NO. 11224

IRON BRIDGE  
OVER THE  
LITTLE ANDROSCOGGIN RIVER

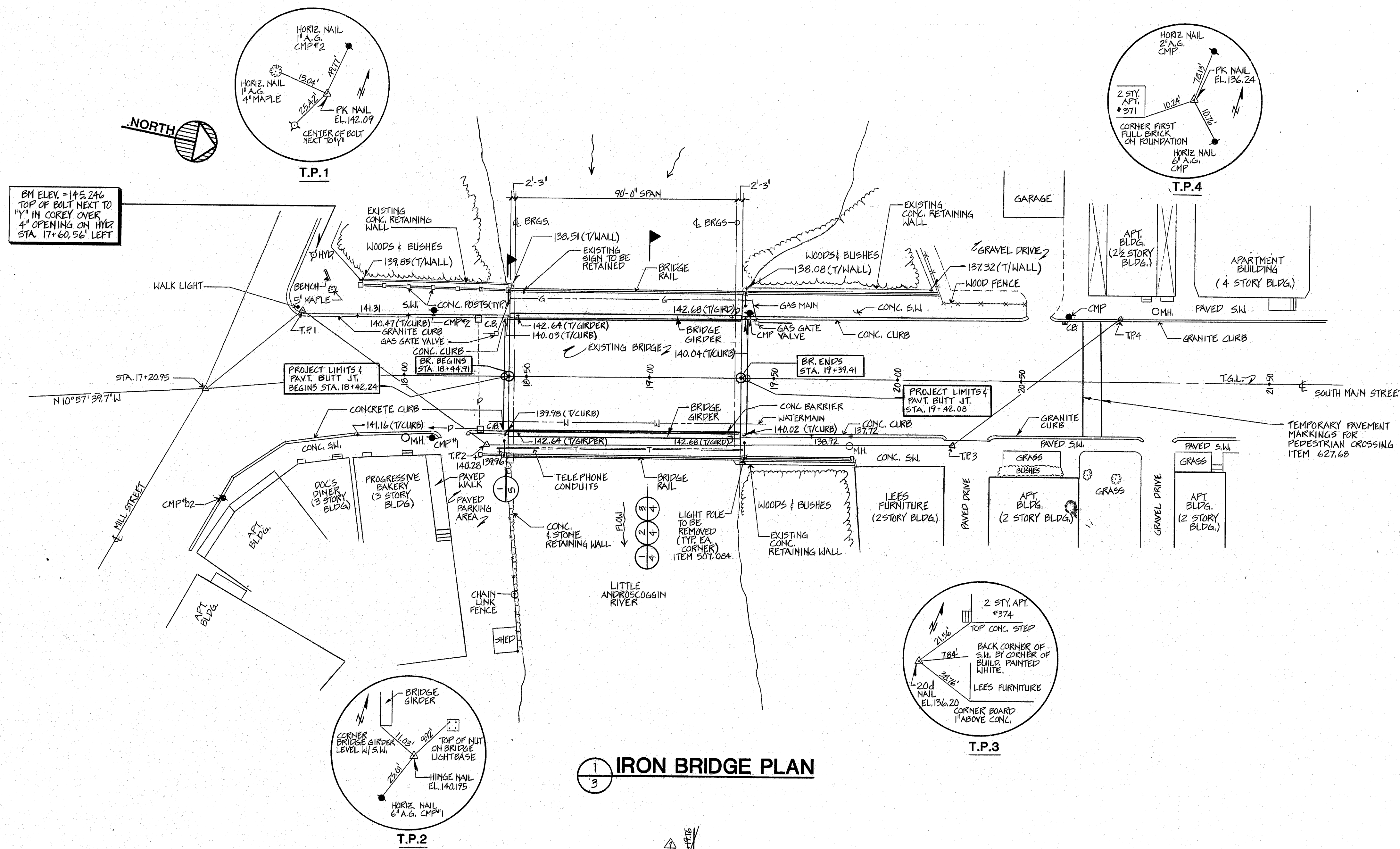
AUBURN  
ANDROSCOGGIN COUNTY

SHEET 2 OF 14 AUGUSTA, MAINE

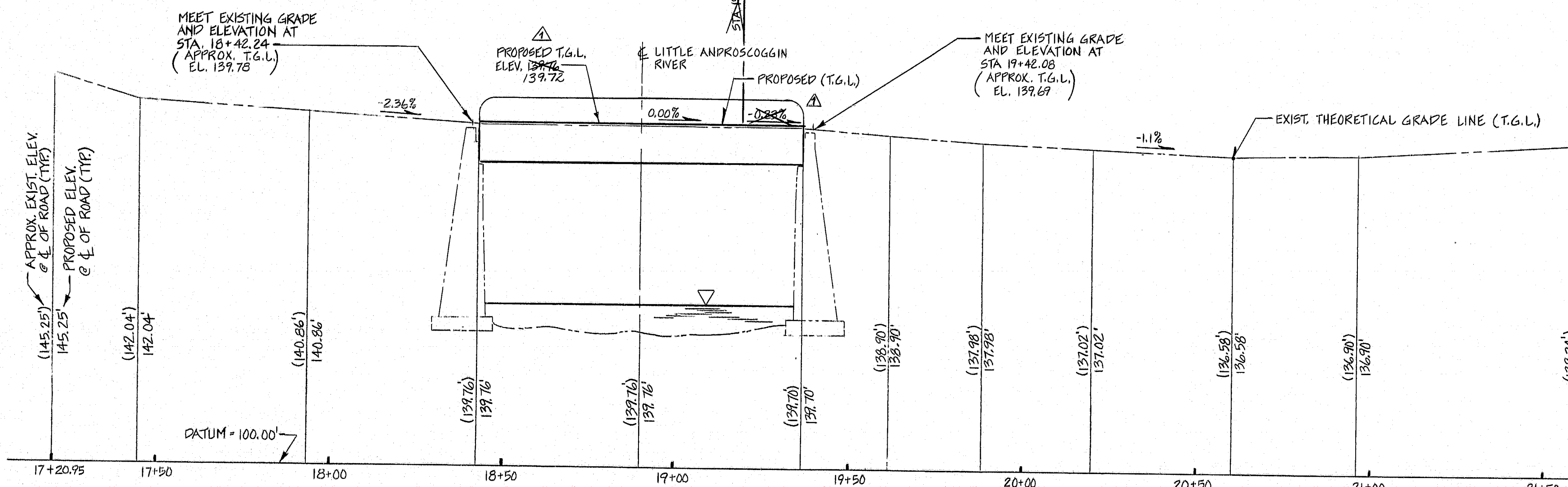




F.W.B.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	M-0201(3)	3	14



1 IRON BRIDGE PLAN



2 CENTERLINE PROFILE

#### SURVEY NOTE

Existing bridge consists of an asphalt pavement on concrete deck on steel stringers which are supported by steel floor beams and two steel through-girders. Girders are supported on concrete-modified stone masonry abutments.

#### SCOPE OF WORK

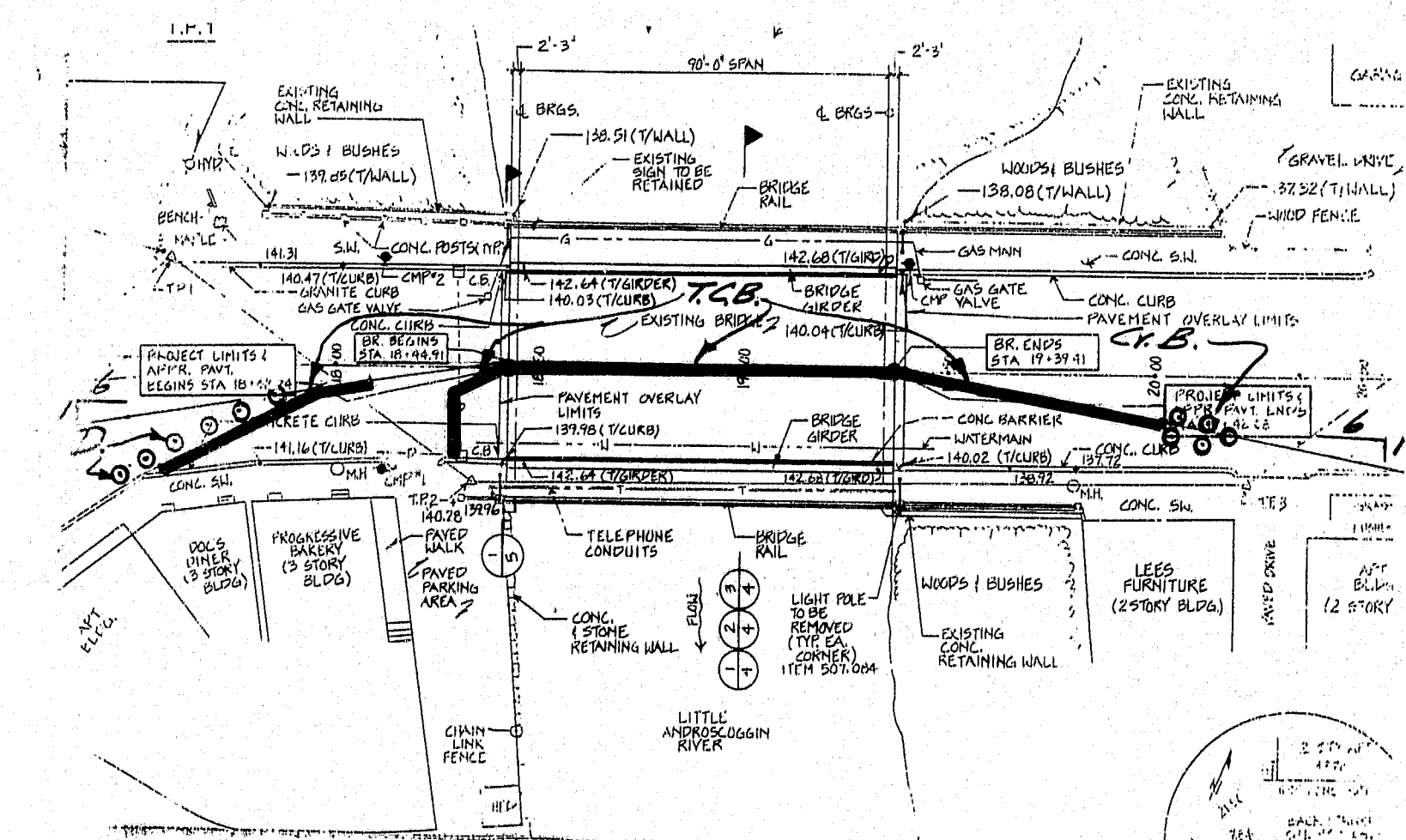
1. Remove pavement, concrete slab, and sidewalks.
2. Construct new concrete slab and 2" unreinforced concrete wearing surface.
3. Construct new concrete sidewalks.
4. Install concrete safety barriers on traffic side of girders.
5. Clean and paint the existing steel, including bearing pedestals.

#### UTILITY NOTE

Utility services at the bridge include overhead distribution lines owned by New England Telephone and Central Maine Power. One gas main (owned by Central Maine Power), one water main (owned by the City of Auburn), and 12 telephone conduits (owned by New England Telephone) are suspended from the superstructure. All utility facilities shall be adjusted by the respective utilities unless noted otherwise.

#### HYDROLOGIC REPORT

No hydrologic evaluation nor hydraulic analysis of the bridge site were prepared because the existing opening was deemed to be adequate.



TRAFFIC CONTROL LAYOUT  
(East Side Shown - West Side Similar)

LEGEND:  
T.C.B. = Temporary Concrete Barrier  
C.B. = Crash Barrels  
D. = Drums

PIN 4280.00  
BRIDGE NO. 3895 FIELD BOOK NO. 11224

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

IRON BRIDGE  
OVER THE  
LITTLE ANDROSCOGGIN RIVER  
IN THE CITY OF

AUBURN  
ANDROSCOGGIN COUNTY  
GENERAL PLAN AND PROFILE

**RB**  
Ryan-Biggs  
Associates, P.C.  
Consulting Engineers  
281 River Street  
Troy, New York 12180  
(518) 272-8888

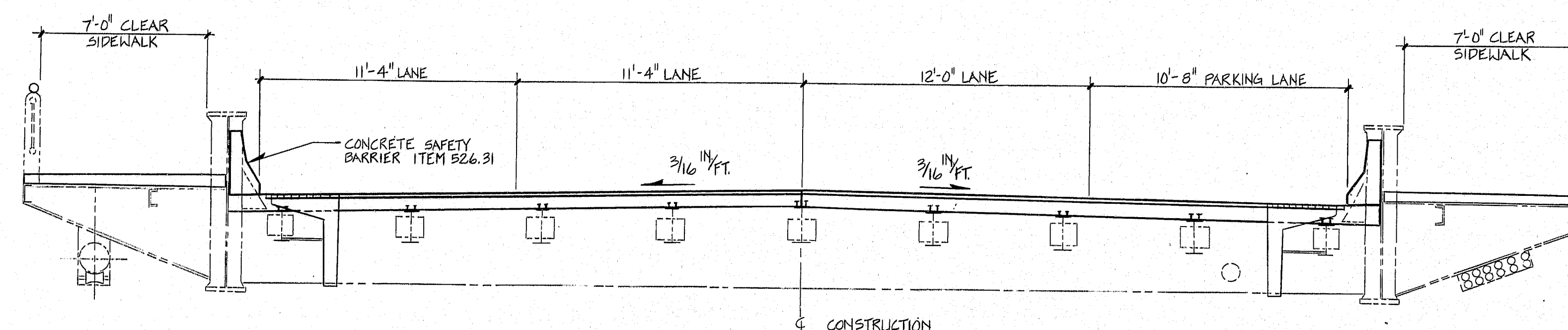
SHEET 3 OF 14 AUGUSTA, MAINE

PROJECT DESIGN ENGINEER	DATE
DESIGN - DETAILED	2/10/91
CHECKED	2/16/91
REVISIONS	
FIELD CHANGES	

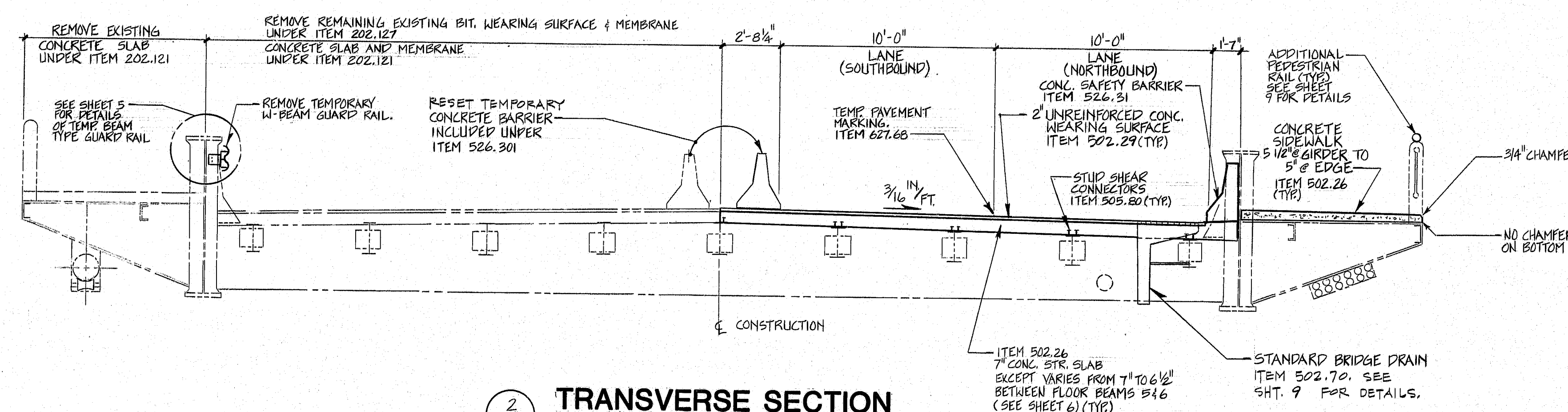
BRUNING 45710-1



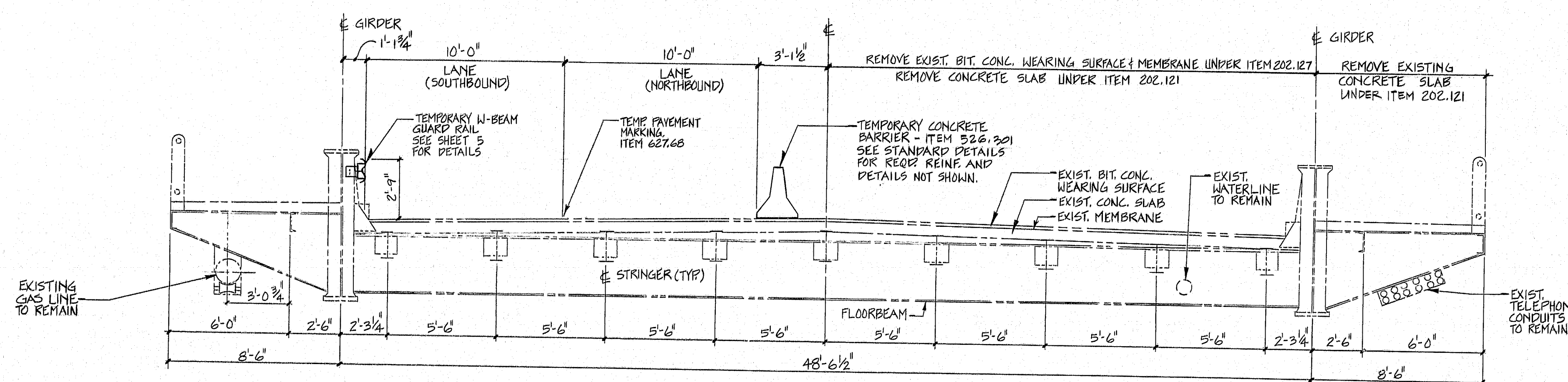
F.R.E.A. REQ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	M-0201(3)	4	14



3  
4 TRANSVERSE SECTION  
STAGE 3



2  
4 TRANSVERSE SECTION  
STAGE 2



1  
4 TRANSVERSE SECTION  
STAGE 1

NOTE: ALL EXISTING STRUCTURAL STEEL  
INCLUDING BEARING PEDESTALS IS  
TO REMAIN, AND IS TO BE PAINTED

#### STAGE CONSTRUCTION

##### STAGE 1:

1. Add temporary corrugated beam guard railing system to traffic side of west girder. Move all traffic into two lanes on west side of bridge with temporary concrete barrier between traffic and construction work.
2. Remove and replace east half of bridge deck and east sidewalk.
3. Add rail to top of existing pedestrian railing. Add concrete barrier at traffic side of east girder.
4. Modify approach pavement and sidewalk to meet new conditions on bridge.

##### STAGE 2:

1. Move all traffic into two lanes on east side of bridge (new bridge deck) with temporary concrete barrier between traffic and construction work.
2. Remove and replace west half of bridge deck and west sidewalk.
3. Add rail to top of existing pedestrian railing. Remove temporary corrugated beam guide rail which was added to the west girder at the start of Stage 1. Add concrete barrier at traffic side of west girder.
4. Modify approach pavement and sidewalk to meet new conditions on bridge.

##### STAGE 3:

1. Restore traffic to three lanes (2 southbound, 1 northbound) with parking lane at east curb on new bridge deck. Complete approach work.
2. Complete contract items including painting structural steel.

109-135

PIN 4280.00  
BRIDGE NO. 3895 FIELD BOOK NO. 11224

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

IRON BRIDGE  
OVER THE  
LITTLE ANDROSCOGGIN RIVER

IN THE CITY OF

AUBURN

ANDROSCOGGIN COUNTY

TRANSVERSE SECTIONS FOR  
STAGE CONSTRUCTION

SHEET 4 OF 14 AUGUSTA, MAINE

**RB**  
Ryan-Biggs  
Associates, P.C.  
Consulting Engineers  
281 River Street  
Troy, New York 12180  
(518) 272-8288

PROJECT DESIGN ENGINEER	DATE
BY	2/17/92
DESIGNED	
CHECKED	
REVISIONS	
FIELD CHANGES	

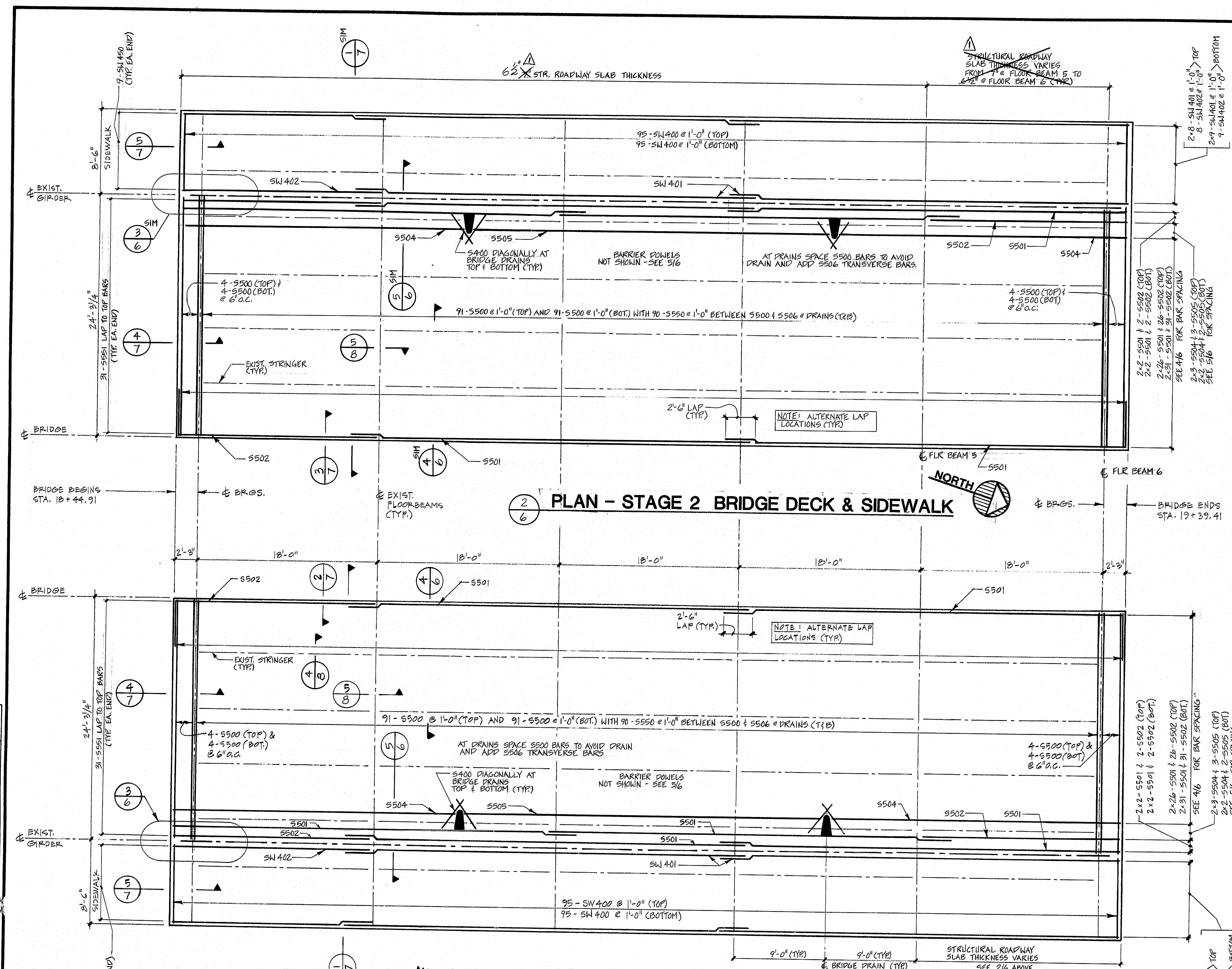
BRUNN 45710-1



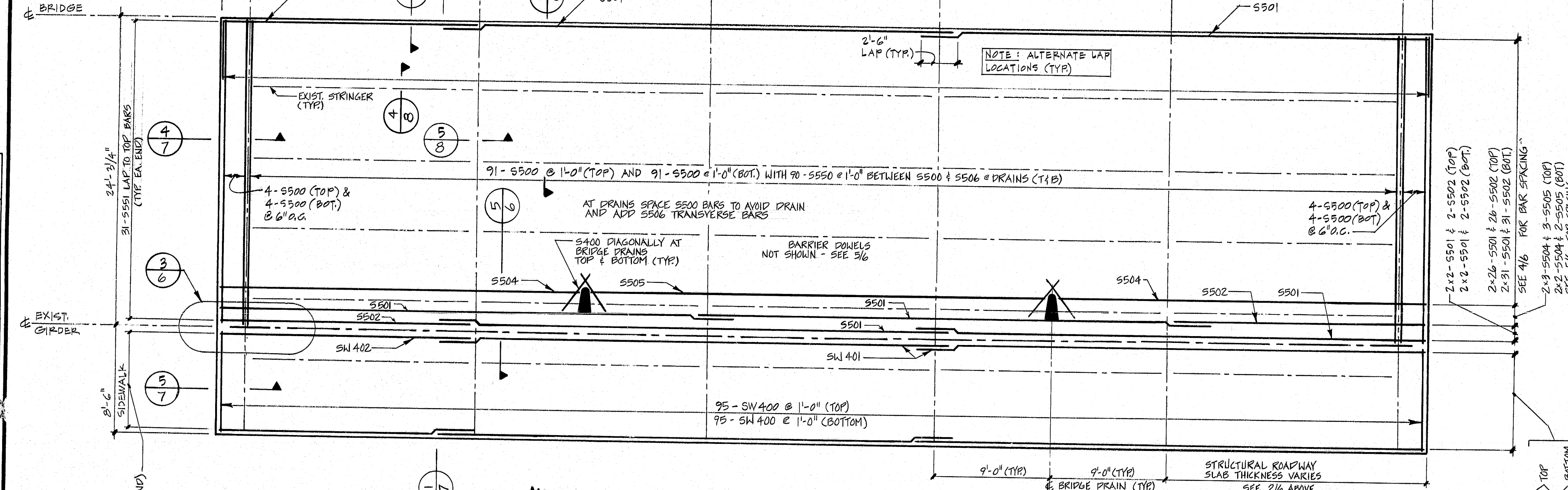




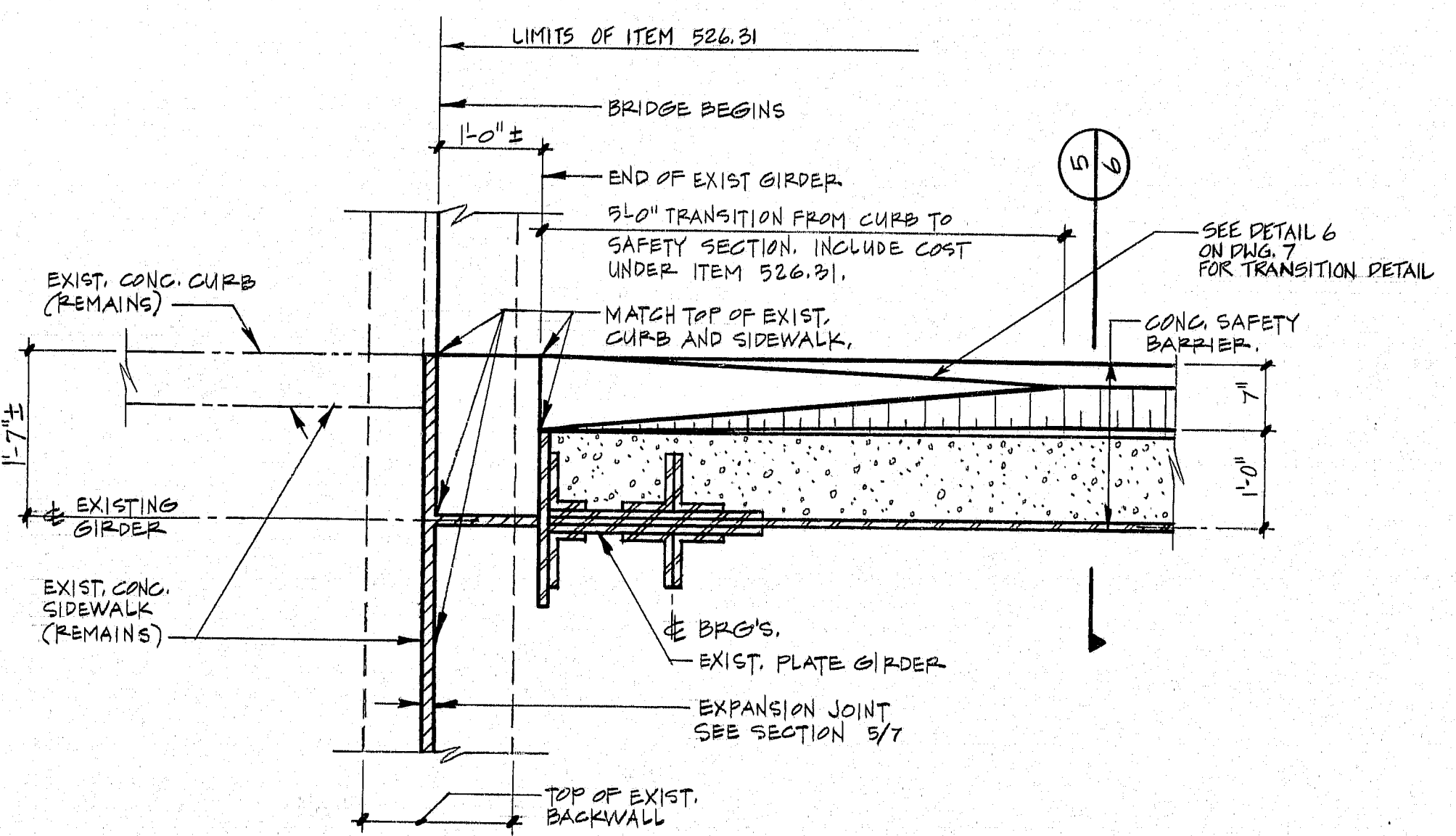
P.W.A. RES. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	N-020103	6	14



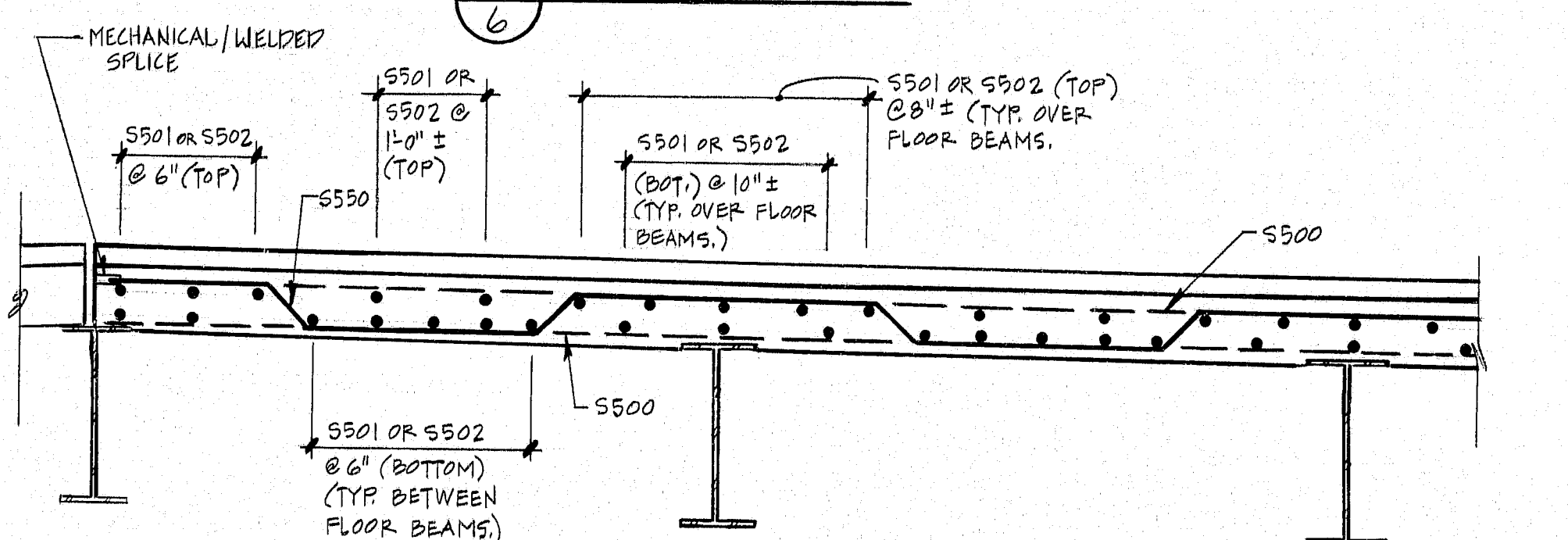
PLAN - STAGE 2 BRIDGE DECK & SIDEWALK



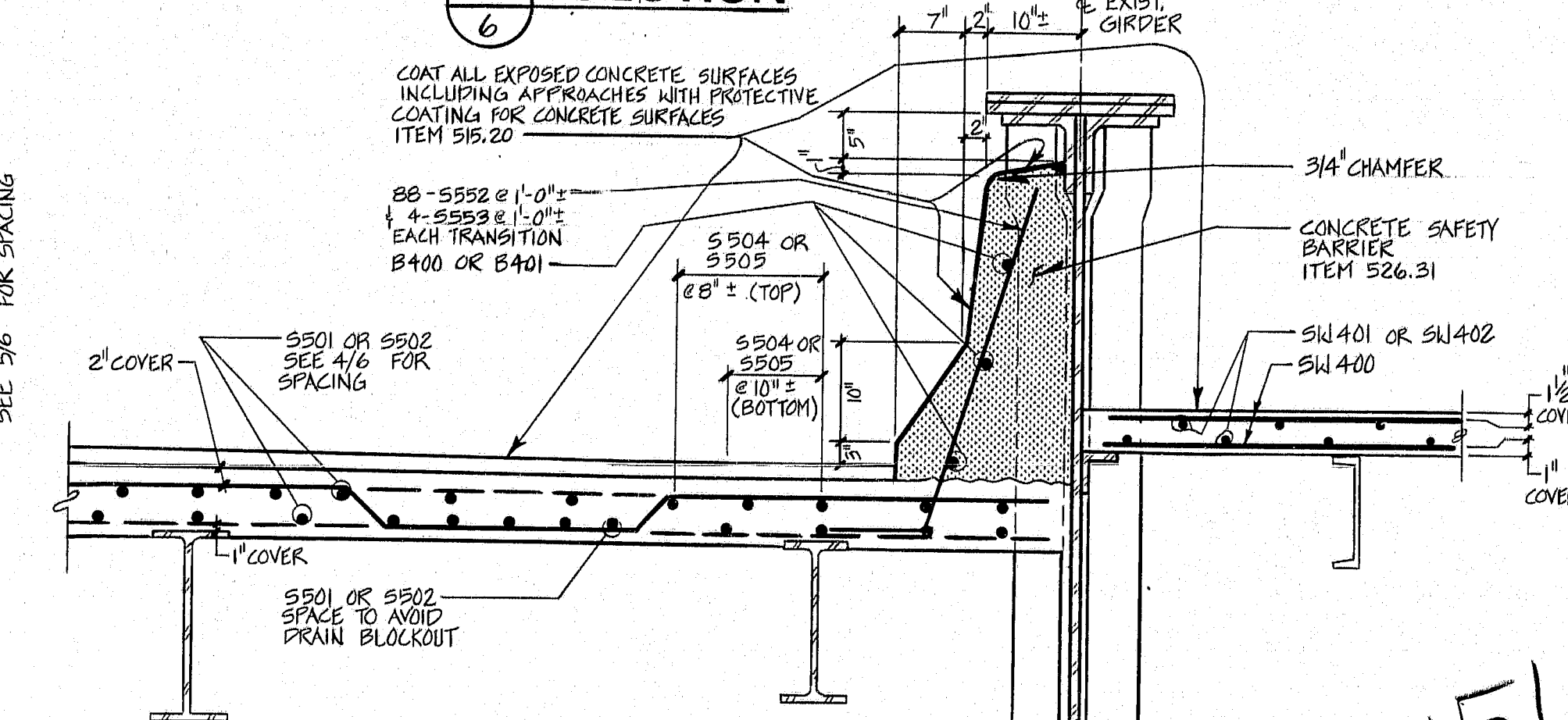
PLAN - STAGE 1 BRIDGE DECK & SIDEWALK



PLAN DETAIL



SECTION



SECTION

Revision of 3/23/92 Changed 7" STR. Roadway Slab Thickness to 6 1/2"

109-137

Ryan-Biggs Associates, P.C.  
Consulting Engineers  
281 River Street  
Troy, New York 12180  
(518) 272-8888

PIN 4260.00  
BRIDGE NO. 3895 FIELD BOOK NO. 11224

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

IRON BRIDGE  
OVER THE  
LITTLE ANDROSCOGGIN RIVER

IN THE CITY OF  
AUBURN  
ANDROSCOGGIN COUNTY  
DECK PLAN AND DETAILS

SHEET 6 OF 14 AUGUSTA, MAINE



EXIST. DECK SLAB AND OVERLAY REMAINS DURING STAGE 1 CONSTRUCTION.

BRIDGE (SYMMETRICAL),

24'-3 1/4"

EXISTING GIRDER.

2" UNREINFORCED CONC. WEARING SURFACE, ITEM 502.29

Δ 6 1/2"

X CONC. STRUCTURAL SLAB TO BE PAID FOR UNDER ITEM 502.26

SEE SHT. 6 FOR SIDEWALK REINF.

SEE S1/6 FOR TYP. COVER.

3" Ø PIPE - SEE SHT. 9 FOR DETAILS.

CONC. SIDEWALK SLAB, ITEM 502.26

5"

SEE 2 7

SEE 3 7

EXIST. W36 X 280 FLOOR BEAM (TYP.)

EXIST. W18 X 50 STRINGER (TYP. U.N.G.)

EXIST. W16 X 40 STRINGER

5'-6" (TYP.)

2'-3 1/4"

2'-6"

6'-0"

EXIST. SIDEWALK BRACKET

EXIST. C12 X 20.7

EXIST DECK SLAB

SAW CUT EXIST DECK SLAB

MECHANICAL REINFE BAR COUPLER  
ITEM 508.17  
(TYP ALL 3500, 3550, 3506 BARS)

DECK SLAB (STAGE 1)

MAX.

Technical drawing illustrating the installation of a joint sealant in a deck slab.

The main drawing shows a cross-section of the deck slab with a joint sealant installed in a slot. Labels include:

- DECK SLAB (STAGE 2)
- DECK SLAB (STAGE 1)
- JOINT SEALANT

An inset drawing provides a detailed view of the joint sealant installation, showing dimensions:

- 1" (width of the sealant)
- 1/4" (depth of the sealant)
- 1/8" (thickness of the sealant)
- SEALING SLOT

NOTE: EXIST. STL. PLATE GIRDER NOT SHOWN

FACE OF CONG. FLUSH WITH EDGE OF GIRDER FLANGE (NOT SHOWN)

5'-0" TRANSITION

1'-0"

BRIDGE SIDEWALK JOINT

BRIDGE DECK JOINT

CONCRETE APPROACH

SLAB & ASPHALT OVERLAY TO REMAIN

LIMITS OF: ITEM 202.127 REMOVING OF EXISTING BITUMINOUS PAVEMENT ITEM 502.29 STRUCTURAL CONCRETE WEARING SURFACE.

LIMITS OF EXISTING STRUCTURAL CONG.

2'-8"

LIMITS OF: ITEM 202.121 REMOVING EXISTING CONCRETE ITEM 502.26 STR. CONG. ROADWAY AND SIDEWALK ON STEEL BRIDGE

SAW CUT

JOINT SEALANT - SEE 3/7 (S1M)

SS551 LAPPED TO TOP LONG BARS

REMOVE EXISTING CONCRETE 1" BELOW EXISTING TOP MAT OF REINFORCEMENT (SCINE TO REMAIN) SEE 1/7 FOR APPL. DETAILS.

PREFORMED EXPANSION JOINT FILLER

EXIST. ABUTMENT BACK-WALL

45°

1'-1/2"

9"

1'-6"

END FLOORBEAM

6'-0 1/2"

EXIST. SIDEWALK REMAINS

EXIST. A BACKWALL

DE BRG.

CONCRETE FOR APPROACH  
INCIDENTAL TO ITEM 502.27

H 500 W/MECHANICAL/WELDED SPLICES  
& ROAD

MEET EXISTING  
ELEVATION

1'-6"

2 1/2" CON.

EXISTING APPROACH SLAB  
REINF. TO REMAIN (TYP)

DRILL & GROUT  
H 500 @ 1'-6" S

SEE 47 FOR  
ADDITIONAL  
DETAILS

BACKWALL

109-138

PIN 4260.00  
BRIDGE NO. 3895 FIELD BOOK NO. 11224

## DECK SECTION AND DETAILS

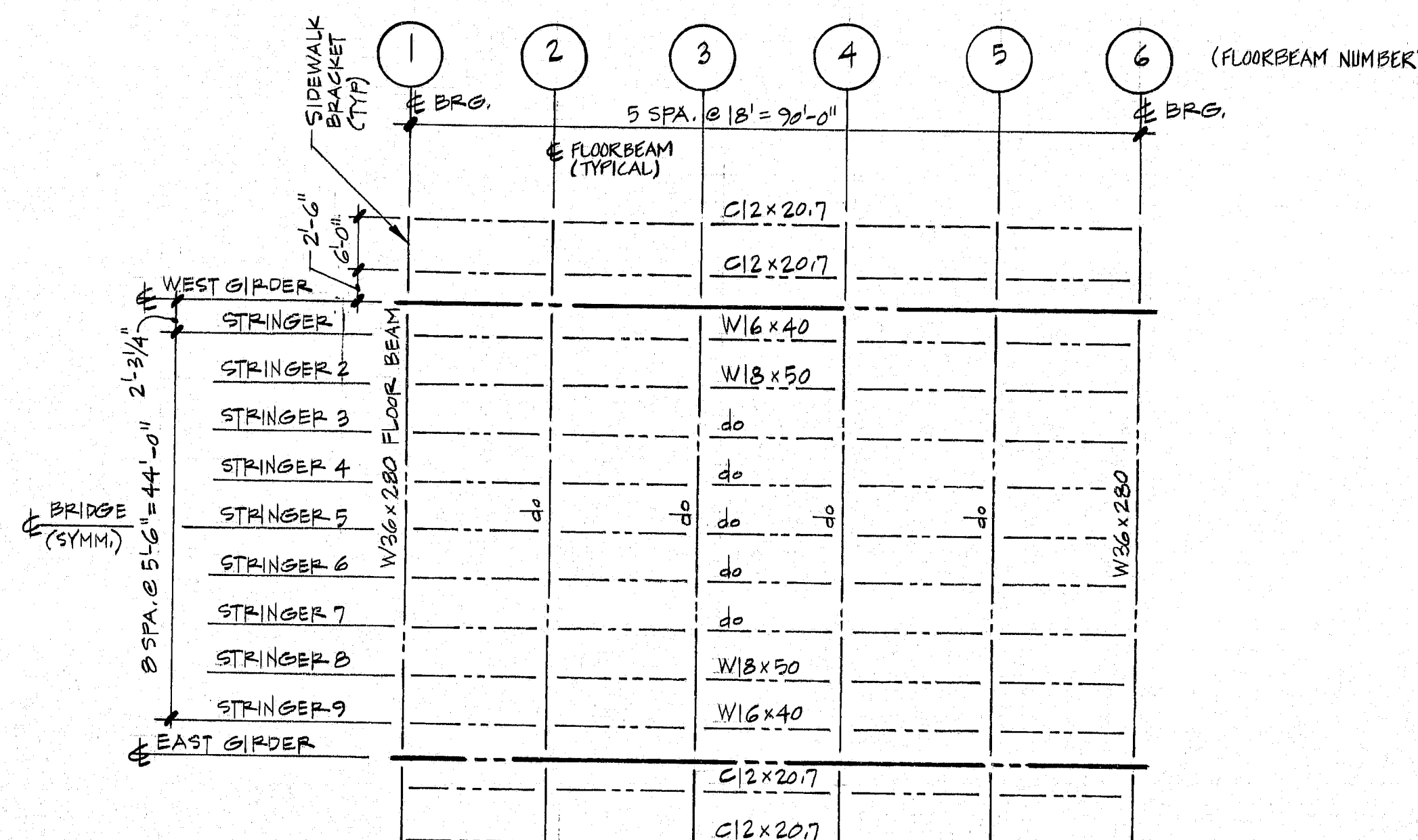
SHEET 7 OF 14 AUGUSTA, MAINE

**RB**  
**Ryan-Biggs**  
**Associates, P.C.**  
**Consulting Engineers**

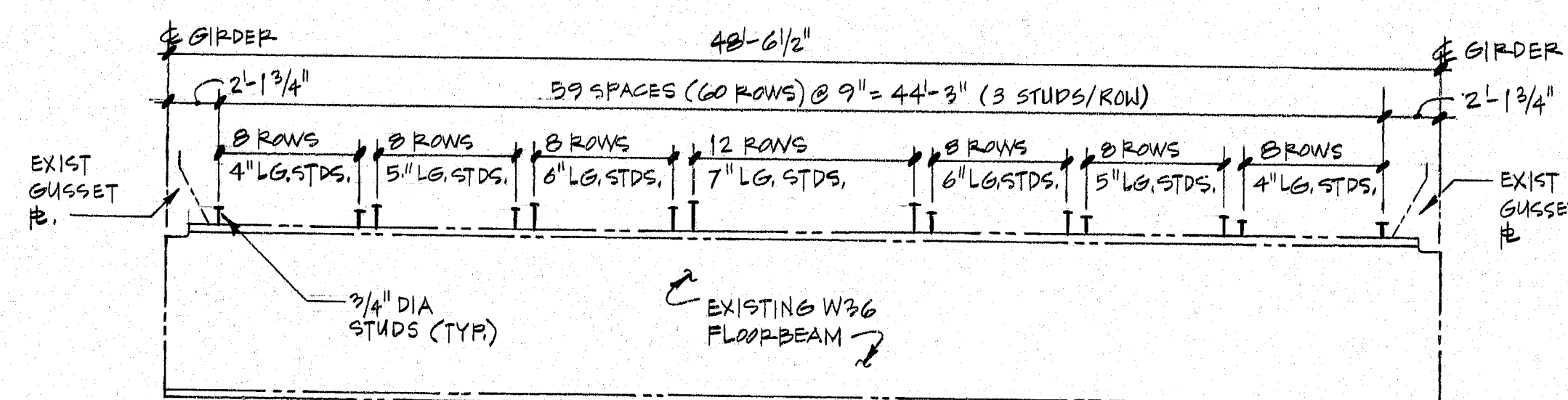
291 River Street  
Troy, New York 12180  
(516) 272-6266



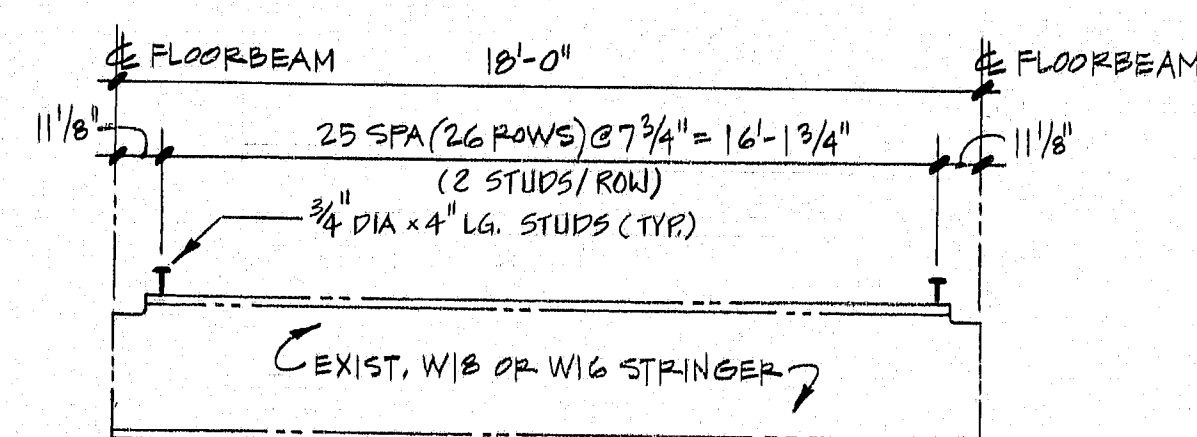
F.R.B.A. RES. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	M-0201(3)	8	14



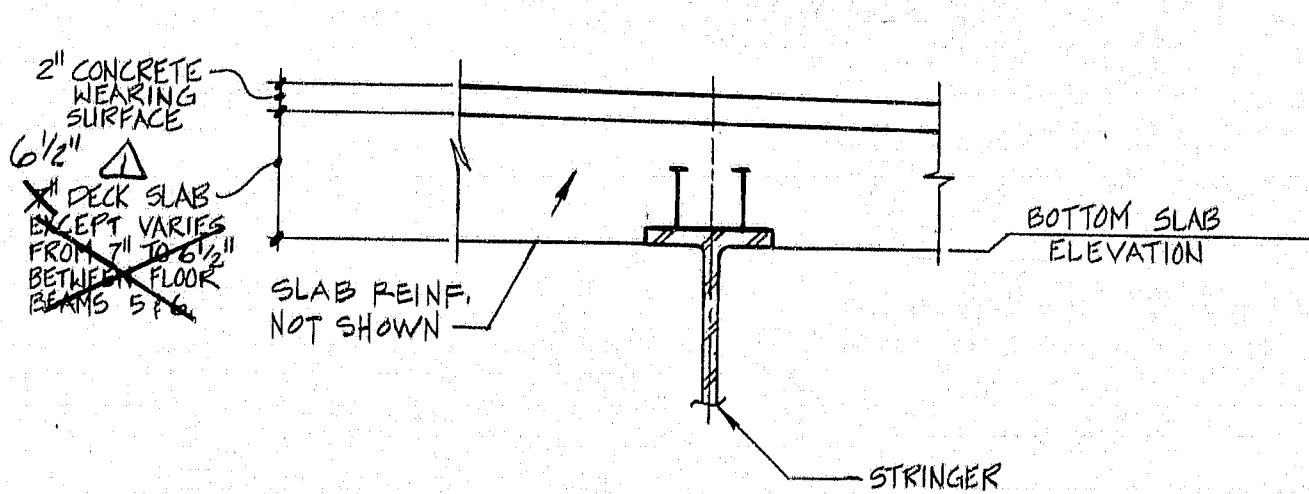
**FRAMING PLAN**  
NORTH



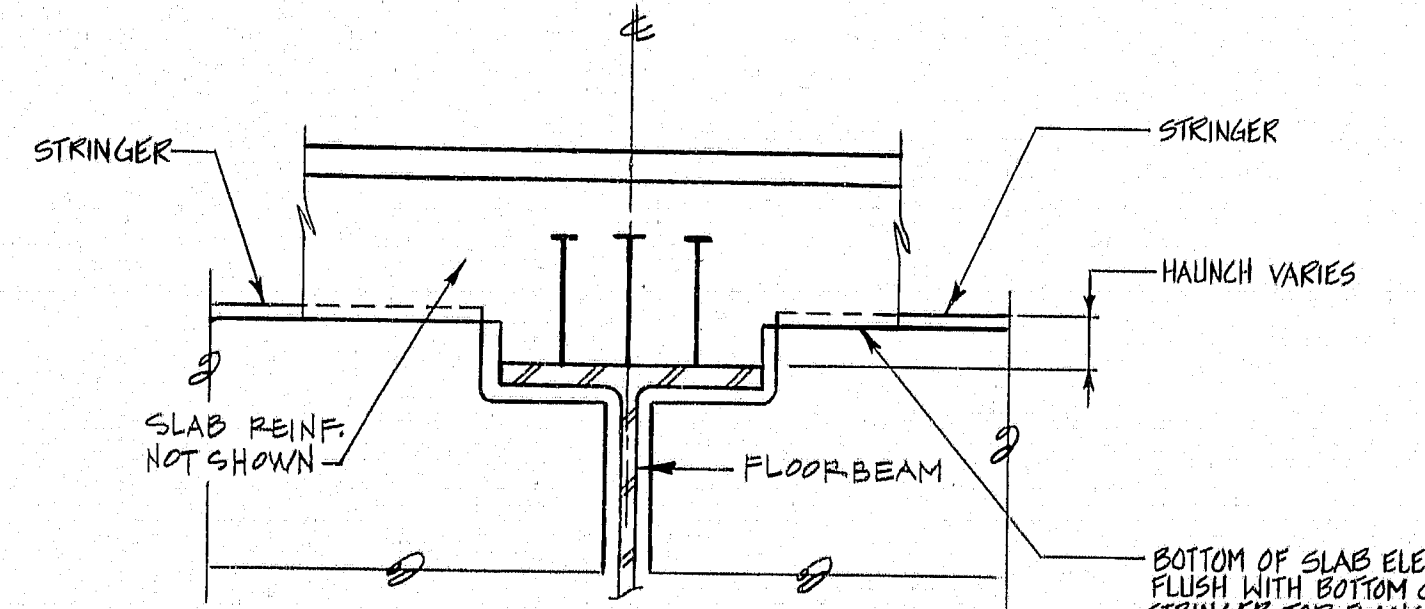
**STUD LAYOUT - FLOORBEAMS**  
N.T.S.



**STUD LAYOUT - STRINGERS**  
N.T.S.

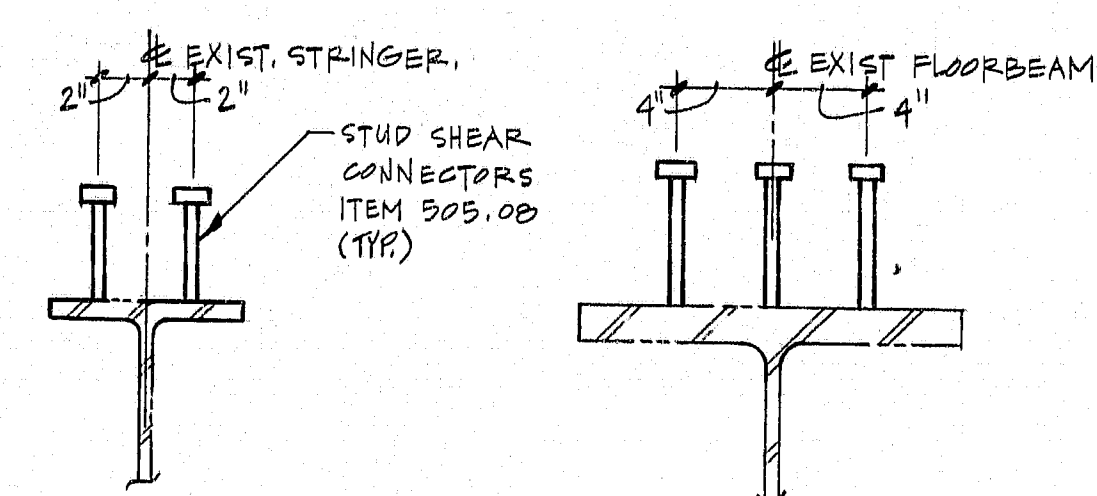


**SECTION 4**  
8



**SECTION 5**  
8

NOTE: REMOVE ALL PAINT, RUST AND OTHER FOREIGN MATTER FROM TOP FLANGE OF EXISTING STRUCTURAL STEEL BEFORE PLACING STUD SHEAR CONNECTORS AND CONCRETE SLAB.



**STUD SHEAR CONNECTOR DETAIL**  
N.T.S.

109-139

Revisions of 3/23/92 Changed Deck Slab thickness from 7" to 6 1/2"

PIN 4260.00  
BRIDGE NO. 3895 FIELD BOOK NO. 11224

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

IRON BRIDGE  
OVER THE  
LITTLE ANDROSCOGGIN RIVER  
IN THE CITY OF  
AUBURN  
ANDROSCOGGIN COUNTY

STEEL DETAILS AND HAUNCH TABLE  
SHEET 8 OF 14 AUGUSTA, MAINE

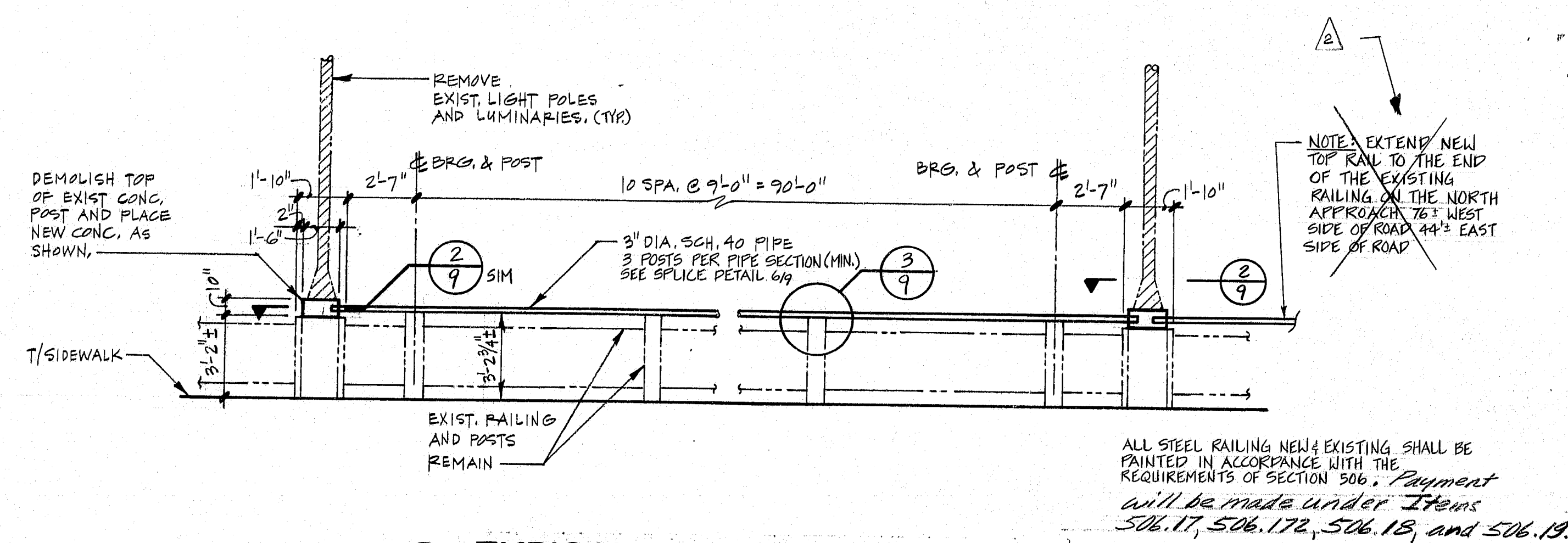
**RB**  
Ryan-Biggs  
Associates, P.C.  
Consulting Engineers  
391 River Street  
Troy, New York 12180  
(518) 278-8888

PROJECT DESIGN ENGINEER	BY	DATE
PLANS		
DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

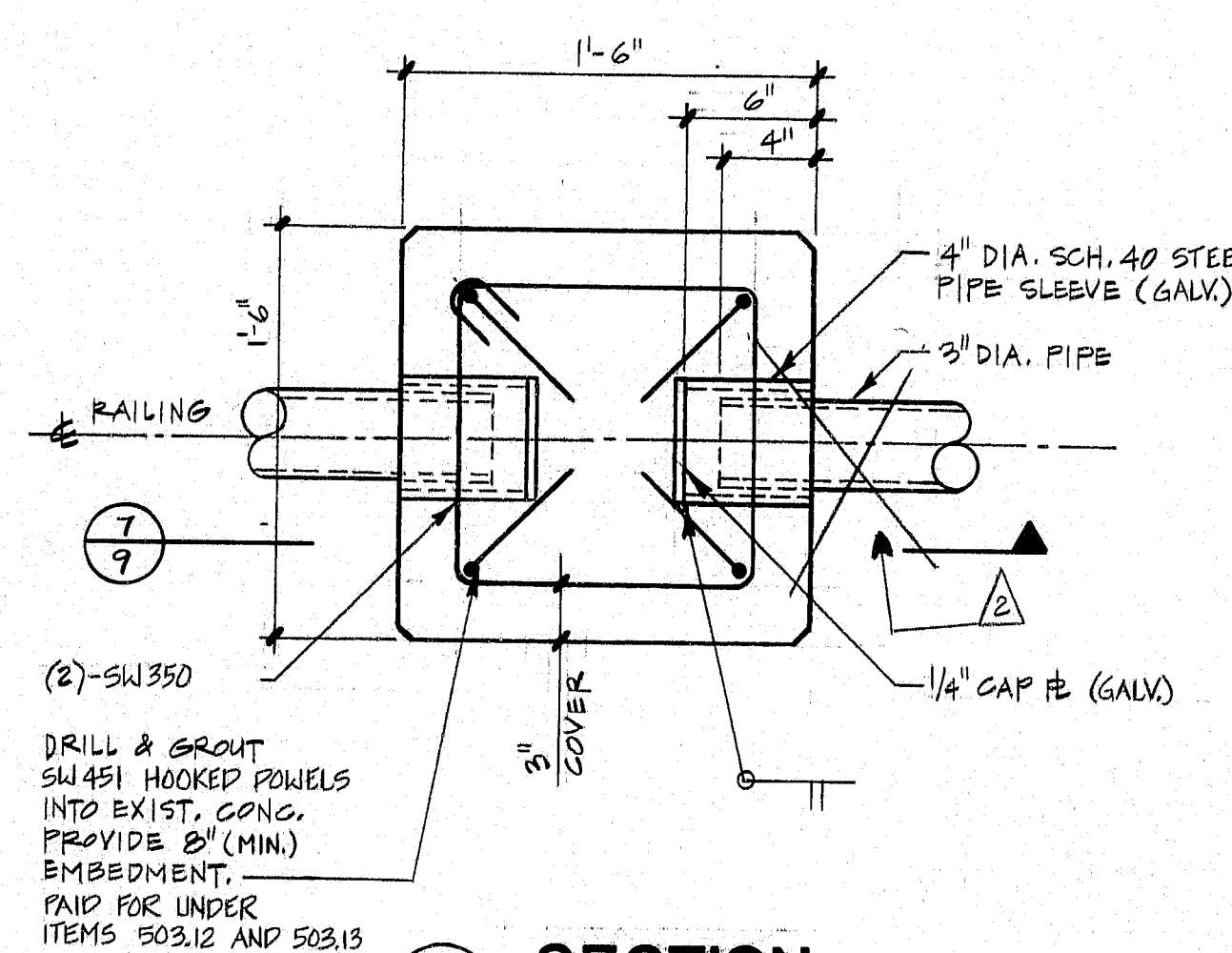
BRWING 45710-1



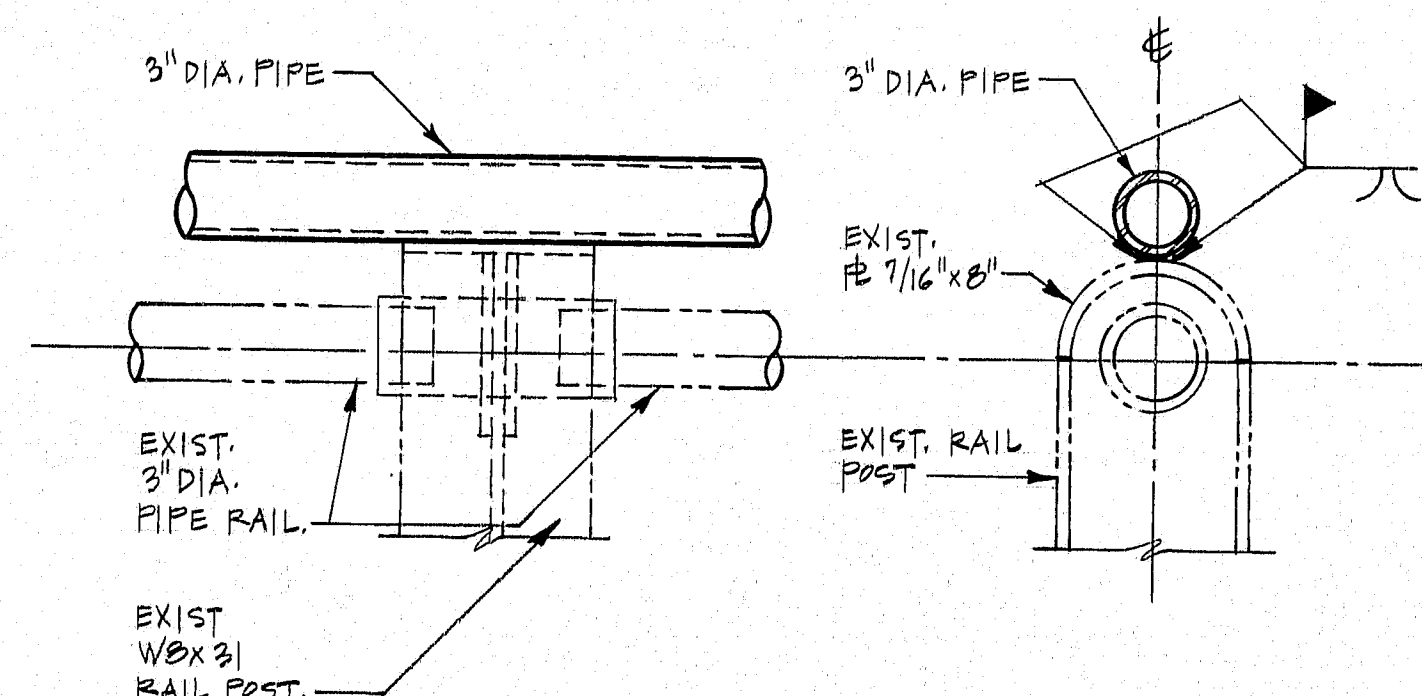
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOT. SHEET
1	MAINE	M-0201(3)	9	14



### TYPICAL RAILING ELEVATION

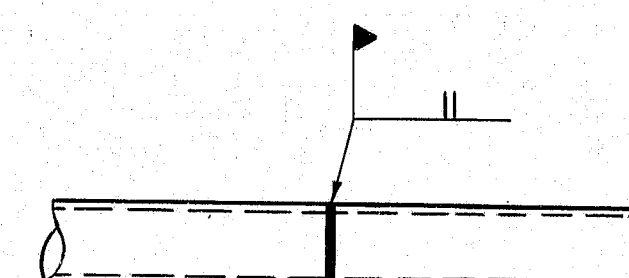


**2 SECTION**

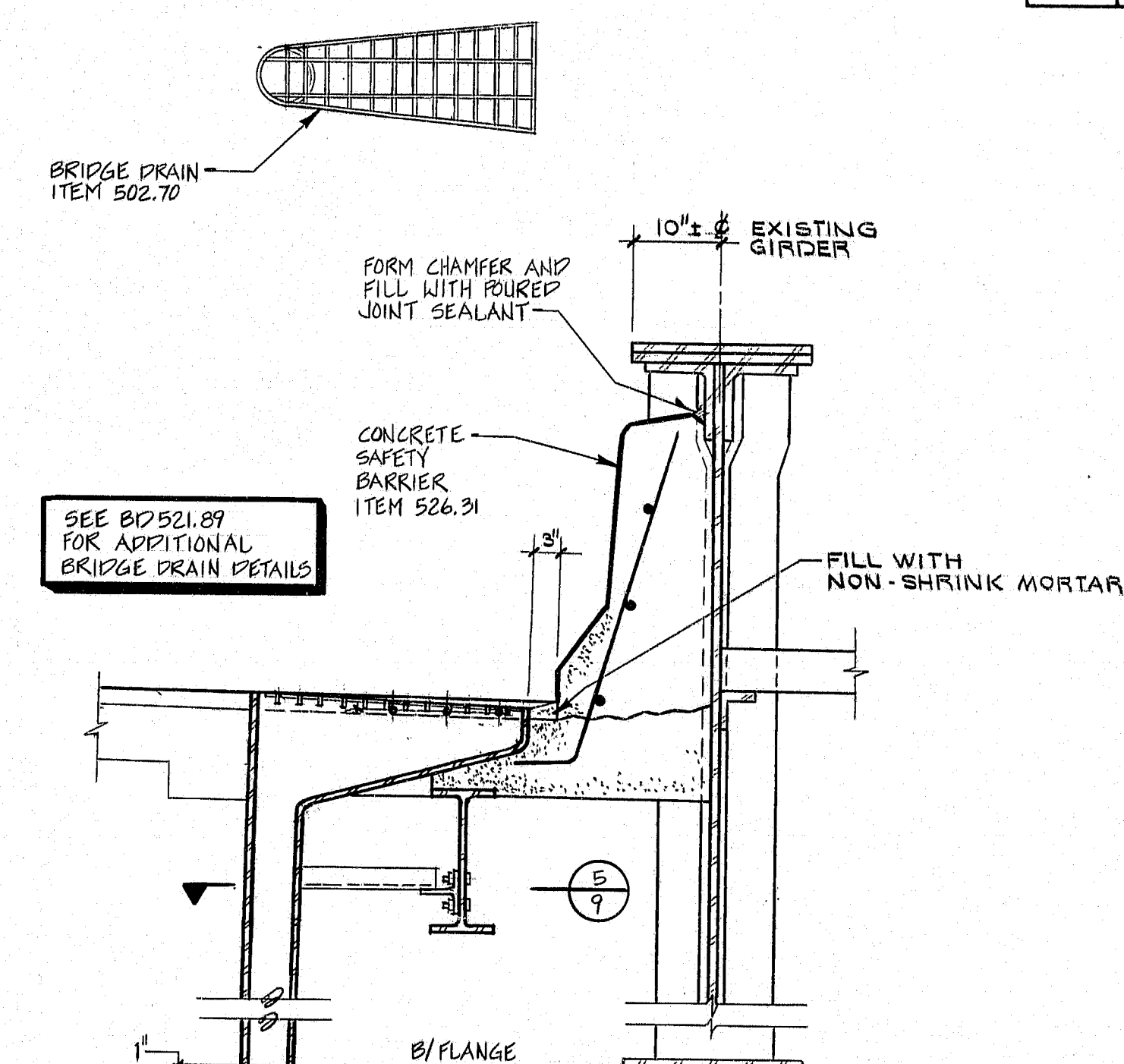


3  
8

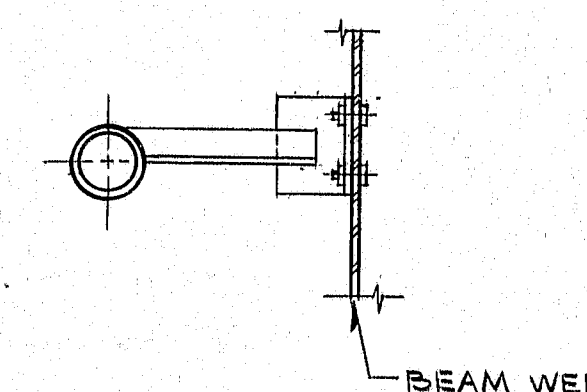
**DETAIL**



## 6 SPLICE DETAIL

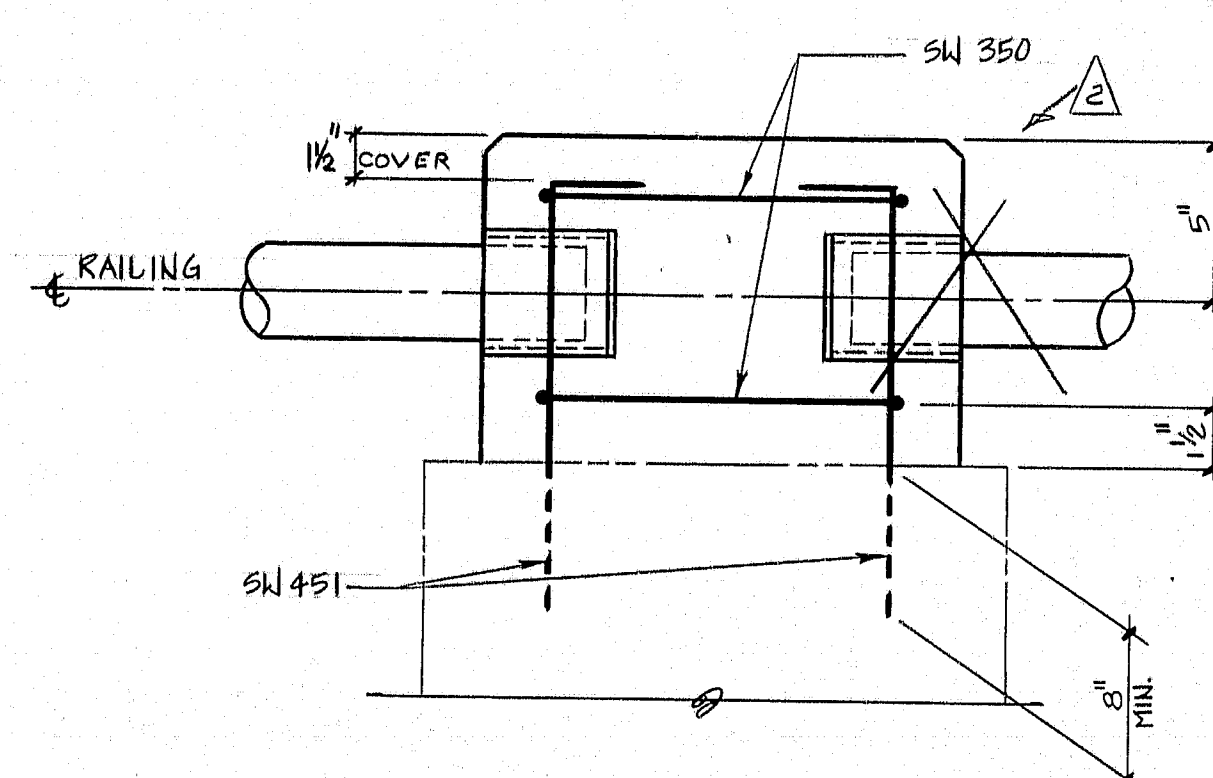


### 4 BRIDGE DRAIN SECTION



5  
2

**DETAIL**



**SECTION**

PROJECT DESIGN ENGINEER		BY	DATE
<b>PLANS</b>	DESIGN - DETAILED		
	CHECKED		
	REVISIONS		
	FIGURE NUMBER		

RUNING 45710.1

**HANDRAIL NOTE: THE FURNISHING AND INSTALLATION OF HANDRAILS SHALL BE PAID FOR UNDER ITEM 507.084. ALL WORK AND MATERIALS REQUIRED TO MODIFY THE CONCRETE POSTS, INCLUDING THE COST OF REMOVING EXISTING LIGHT POLES, SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE HANDRAILS UNLESS OTHERWISE INDICATED.**

109-140

2. 11/7/92  
 Bridge Rail eliminated on North Approach.  
 PIN 4260.00  
 BRIDGE NO. 3895 FIELD BOOK NO. 11224

PIN 4260.00  
BRIDGE NO. 3895 FIELD BOOK NO. 11224

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

IRON BRIDGE  
OVER THE  
LITTLE ANDROSCOGGIN RIVER

IN THE CITY OF  
AUBURN  
ANDROSCOGGIN COUNTY

### PEDESTRIAN HANDRAIL AND DECK DRAINAGE

SHEET 9 OF 14 AUGUSTA, MAINE

**RB**  
**Ryan-Biggs**  
**Associates, P.**  
**Consulting Engineers**  
 291 River Street  
 Troy, New York 12106  
 (518) 272-6284



REINFORCING STEEL SCHEDULE																										
STRAIGHT BARS												BENT BARS														
MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
			STAGE 1 (EAST)																STAGE 1 (EAST)							
			DECK SLAB																DECK SLAB							
			DIAG. @ DRAINS																5" (3x) 2'-7" (4x) 2'-4" (3x)							
			TRANSVERSE BARS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			LONGITUDINAL BARS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			" "																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			NOT USED																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			LONG. @ DRAINS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			" "																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			TRANS. @ DRAINS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			SIDEWALK																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			TRANSVERSE BARS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			LONGITUDINAL BARS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			" "																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			BARRIER																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			LONGITUDINAL BARRIER																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			" "																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			APPROACH SLAB																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			STAGE 2 (WEST)																STAGE 2 (WEST)							
			DECK SLAB																DECK SLAB							
			DIAG. @ DRAINS																5" (3x) 2'-7" (4x) 2'-4" (3x)							
			TRANSVERSE BARS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			LONGITUDINAL BARS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			" "																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			NOT USED																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			LONG. @ DRAINS																1'-2" 5" (3x) 2'-7" (4x) 2'-4" (3x)							
			" "																							

FHWA REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHE.
1	MAINE	M-0201(3)	10	14

All dimensions are out to out of reinf. bar  
Bending details and hooks shall conform to  
the recommendations of the current revision  
of ACI Standard 318.  $\Delta$   
Reinforcing Bar: ASTM A615 Grade 60

GENERAL NOTES

1. First digit(s) Following the letter of the Mark indicates size of reinf. bar.  
Mark (A 502) bar size - #5  
Mark (P 1001) bar size - #10  
Mark (S 603) bar size - #6
2. Each truss bar, Type B, may be replaced by two (2) straight bars (one top & one bottom) of the same bar size as the truss bar. Payment in either case shall be based on truss bars as scheduled on plans.

2	New Bent Bar Type SJ	9-26-83
1	Revised ACI Standard	5-12-83

REVISIONS	DATE
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STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

IRON BRIDGE  
OVER THE  
LITTLE ANDROSCOGGIN RIVER

AUBURN  
ANDROSCOGGIN COUNTY

**REINFORCING STEEL SCHEDULE**  
SHEET 10 OF 14    AUGUSTA, MAINE

**RB**  
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