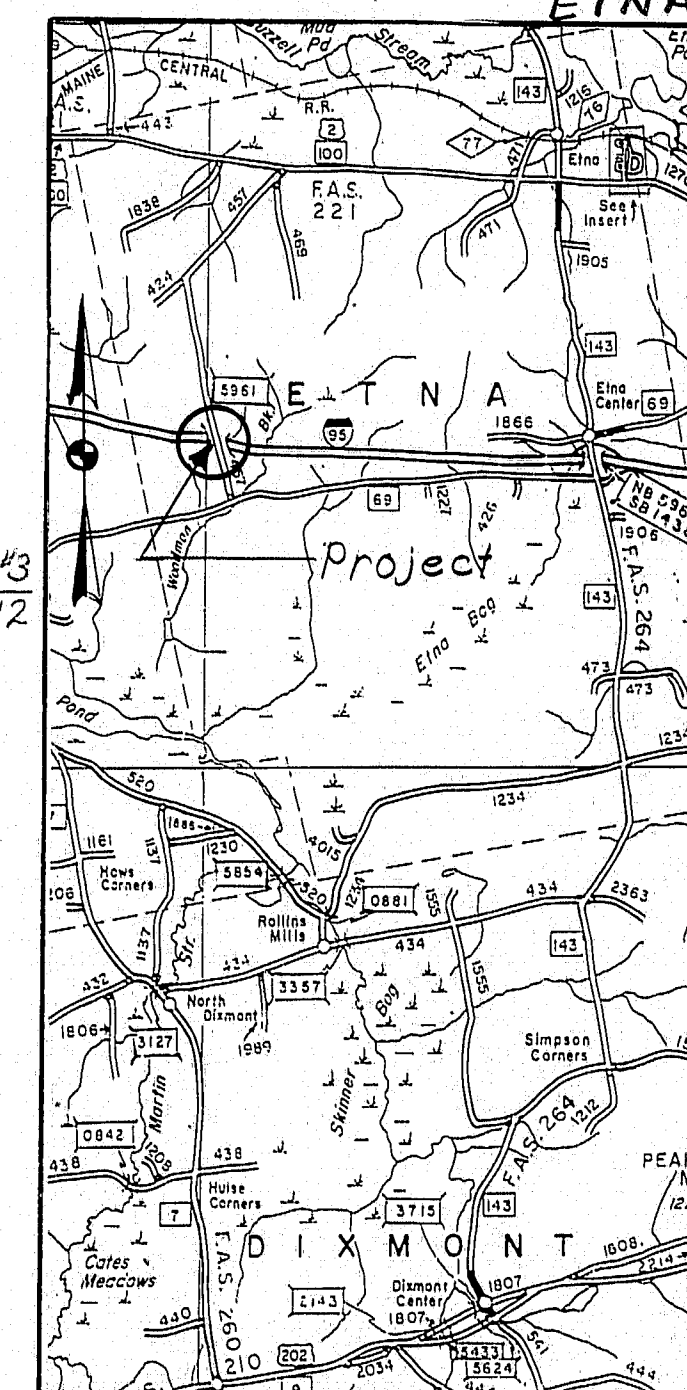
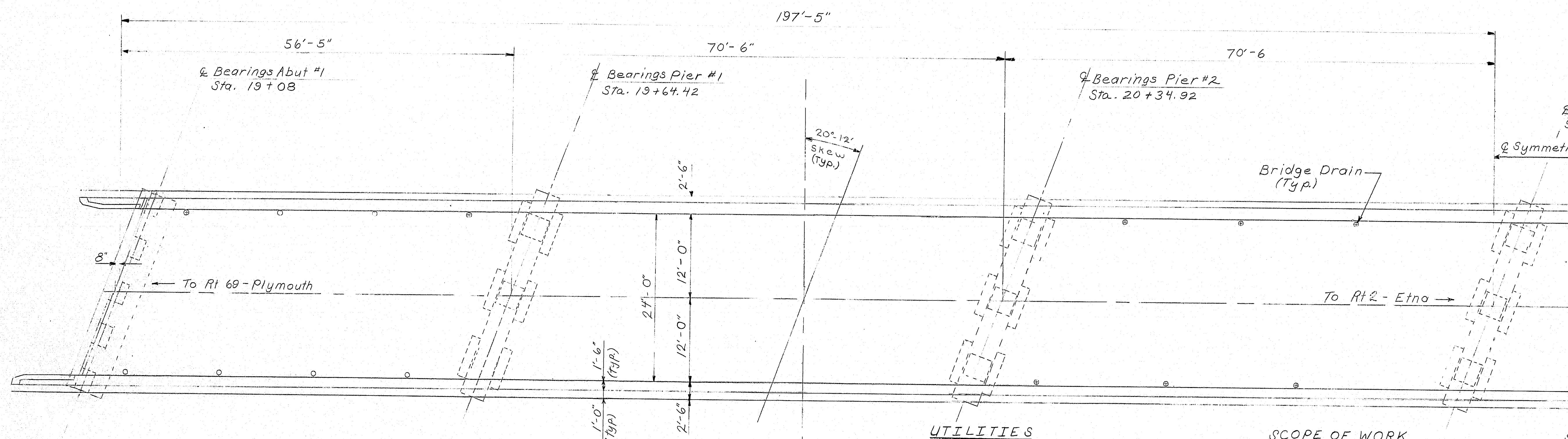


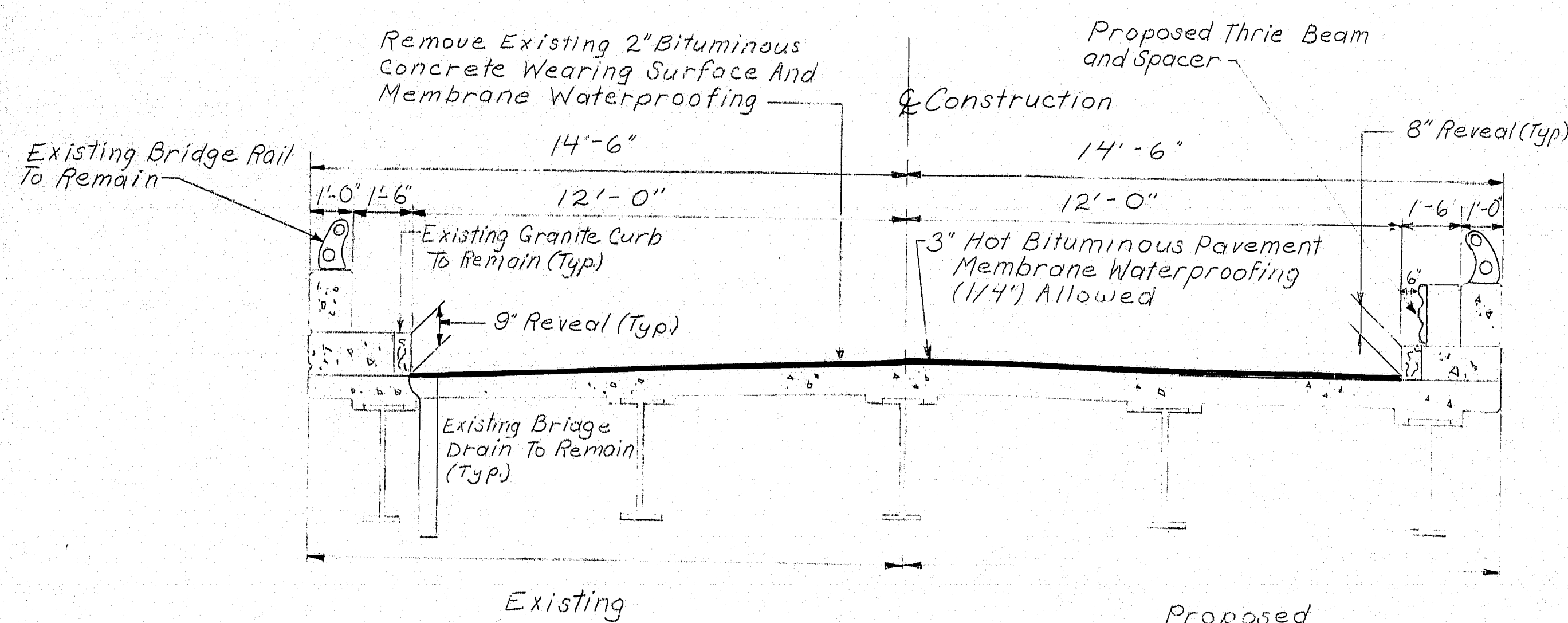
F.H.W.A. RES. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	17M-95-3304/00	1	8
		PER: 005304.00		



LOCATION MAP



Plan



Transverse Section

**UTILITIES**  
C.M.P.  
Hampden Telephone  
West Penobscot Telephone  
NYNEX

TRAFFIC DATA	
AADT 1994	55
AADT 2014	80
DHV	9
Trucks (DHV) %	6
Directional %	60
18 Kip Equivalent P2.0	2

**MAINTENANCE OF TRAFFIC**  
One way traffic shall be maintained on a 10'-0" minimum lane with traffic lights.

**SCOPE OF WORK**  
Replace the existing bituminous pavement and membrane waterproofing with 3" new bituminous pavement and membrane waterproofing.

The deck will be patched as required.

The finger joints will be modified and sealed with a gland type seal.

Taper approach pavement to match new bridge grade. Butt joint ends of taper.

Add three beam to existing bridge rail and connect to existing approach rail.

Taper proposed pavement around existing bridge drains.

#### SPECIFICATION

**DESIGN:** AASHTO Standard Specifications for Highway Bridges 1992 and interim specifications 1993.  
**CONTRACT:** State of Maine, Department of Transportation, Standard Specifications Highway Bridges Revisions of Oct. 1990.

#### DESIGN LOADING

LIVE LOAD: M20-44 (Existing)

#### MATERIALS

CONCRETE --- C/ass A  
REINFORCING STEEL --- ASTM A615 Grade 60  
STRUCTURAL STEEL --- A36

#### BASIC ALLOWABLE STRESSES

CONCRETE ---  $f'_c = 4,000$  psi  
REINFORCING STEEL ---  $f_y = 60,000$  psi  
STRUCTURAL STEEL ---  $f_y = 36,000$  psi

#### INDEX OF SHEETS

DESCRIPTION	SHEET NO.
GENERAL PLAN	1
DETAILS	2
HD-10	3
HD-11	4
HD-12	5

Bridge #5961 115-162

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
WEST ETNA ROAD BRIDGE  
OVER  
INTERSTATE HIGHWAY 95  
IN THE TOWN OF  
ETNA  
PENOBSCOT COUNTY  
GENERAL PLAN

SHEET 1 OF 6 AUGUSTA, MAINE 04/06/95

APPROVED State of Maine Department of Transportation	United States Department of Transportation Federal Highway Administration Region 1
COMMISSIONER DATE	APPROVED DATE
CHIEF ENGINEER DATE	DIVISION ADMINISTRATOR DATE

**NOTE:**  
All work contemplated under this contract to be governed by and in conformity with the Standard Specifications (Revision of October 1990) and supplements thereto, as modified on the plans and in the Special Provisions.

Plans of existing bridge are available for the Contractor's reference at the Bridge Design Office in Augusta. These are reproductions of original drawings as prepared for the construction of the bridge and it is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

Core reports and shear bond tests done for this bridge will be made available for the contractor's reference at the Bridge Design Office in Augusta. The report is based on the interpretation by the Department of Transportation, and the conclusions may not represent the actual conditions at the site.

PROJECT DESIGN ENGINEER	DATE
BY EAW	7/95
DESIGN - DETAILED	
CHECKED	
REVISIONS	
FIELD CHANGES	



## CONSTRUCTION NOTES

INTERVAL HEADS	1	2	3	4	5	6	7
NORTH BOUND	G	Y	R	R	R	R	G
SOUTH BOUND	R	R	R	G	Y	R	Y
TIMING 50 SECOND DIAL	10	3	12	10	3	12	

Adjust timing as necessary in the field.

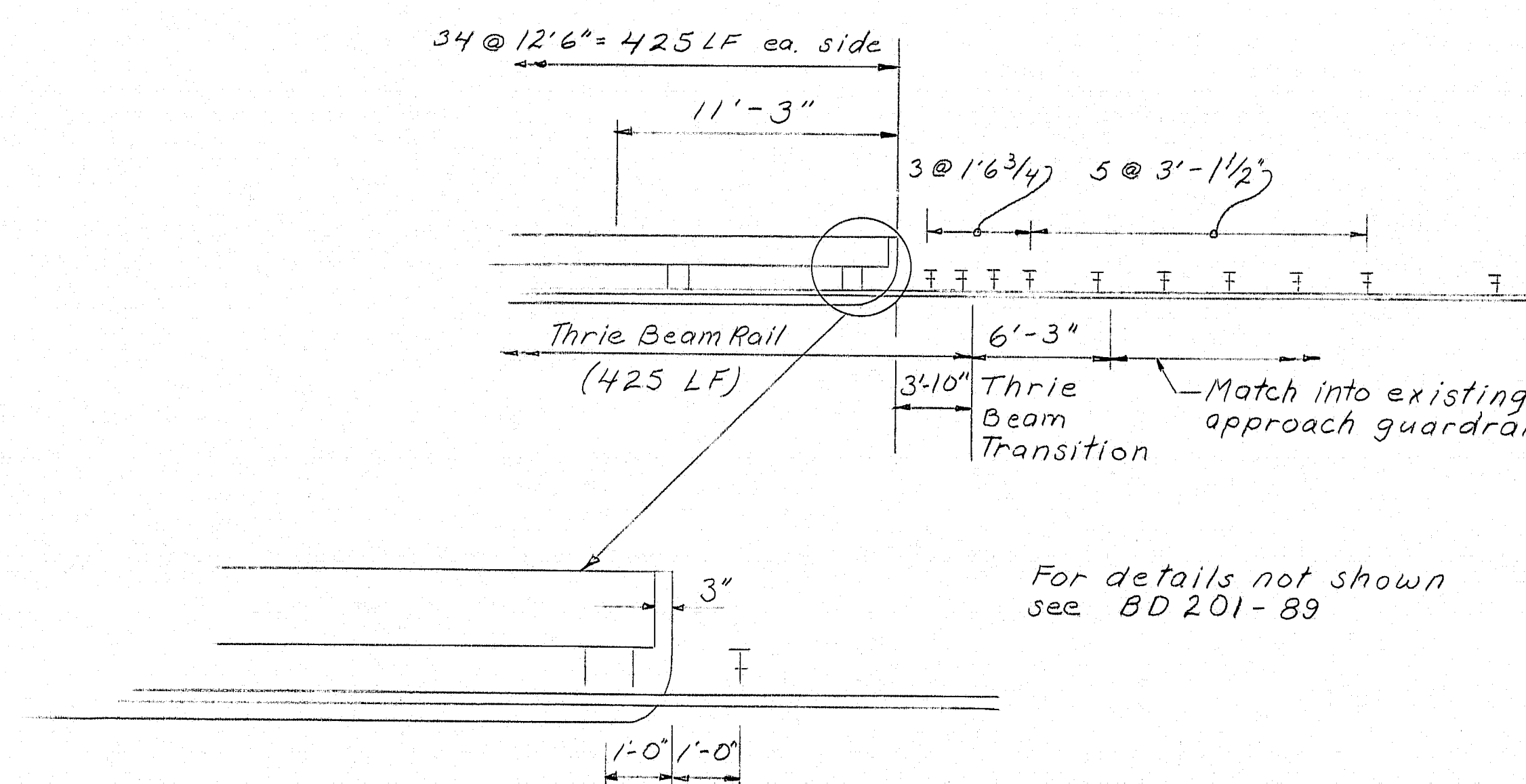
### ESTIMATED QUANTITIES

202.202	REMOVING PAVEMENT SURFACE	1,056	SY
202.203	PAVEMENT BUTT JOINTS	333	SY
403.10	HOT BITUMINOUS PAVEMENT, GRADING D	182	T
409.15	BITUMINOUS TACK COAT APPLIED	20	G
508.13	MEMBRANE WATERPROOFING	LUMP	LUMP
518.30	REHAB STR CONC SLAB TO REIN STL	190	SF
518.31	REHAB STR CONC SLAB BL REIN STL	48	SF
518.32	REHAB STR CONC SLAB FULL DEPTH	8	SF
520.244	BRIDGE JOINT MODIFICATION TYPE 4	2	EA
526.301	TEMPORARY CONC BARRIER TYPE I	LUMP	LUMP
527.32	PORTABLE CRASH BARRELS	11	EA
606.70	TRANSITION SECTION THRIE BEAM.	4	EA
606.73	GR 3 OR THRIE BM SINGL RL BR MT	850	LF
627.61	4" SOLID WHITE PAVE MARK LINE	1,500	LF
627.63	4" SOLID YELLOW PAVE MARK LINE	1,500	LF
627.65	WHITE OR YELL PAVE & CURB MARK	50	SF
627.67	REMOVING PAVEMENT MARKINGS	1,050	SF
627.68	TEMP 4" PNTD PAVE MRK WH OR YE	1,500	LF
639.19	FIELD OFFICE TYPE B	1	EA
643.72	TEMPORARY TRAFFIC SIGNAL	5	EA
646.301	DEMOUNTABLE REFLECTORIZED DELINEATOR, SINGLE	5	EA
652.31	TYPE I BARRICADE	10	EA
652.312	TYPE II BARRICADE	3	EA
652.33	DRUM	10	EA
652.34	CONE	20	EA
652.35	CONSTRUCTION SIGNS	280	SF
652.351	MAINT OF TRAFF CONTROL DEV	1	LUMP
652.38	FLAGGER	200	MH

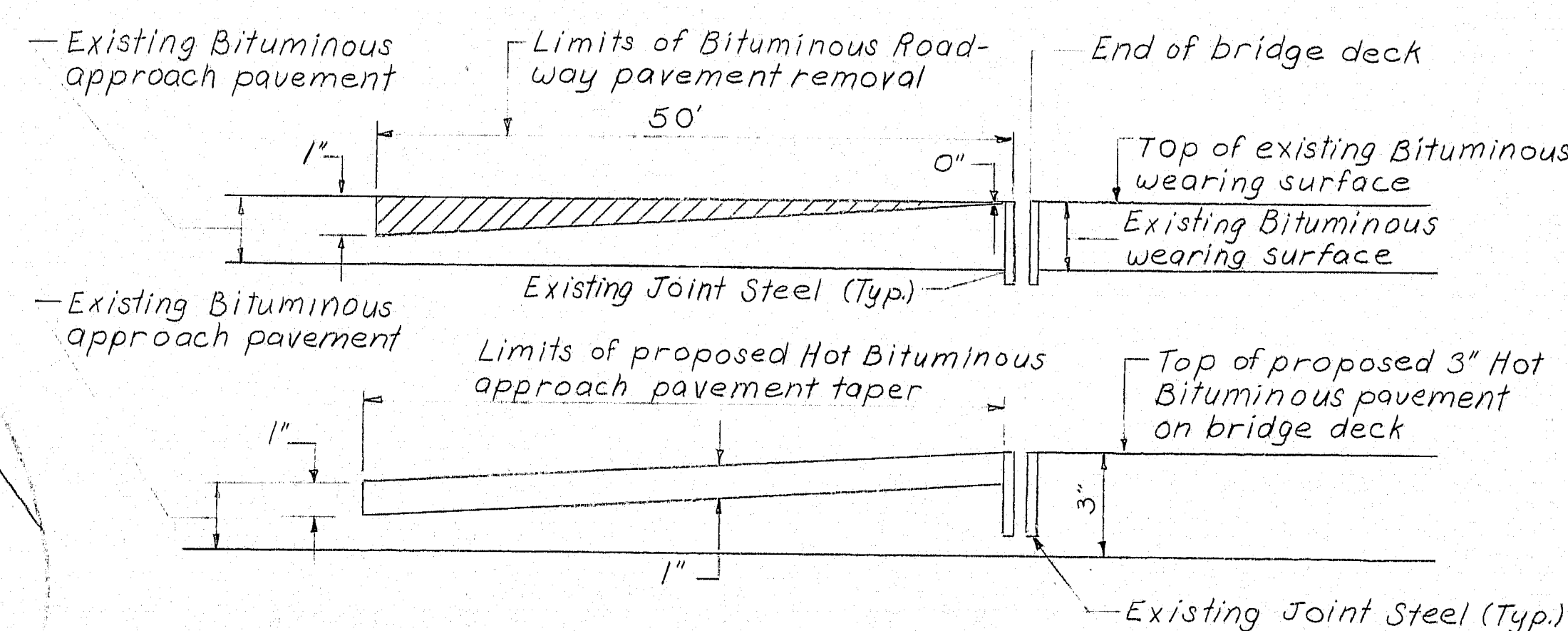
659.10	MOBILIZATION	45 1.2	1.2 LUMP
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STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
WEST ETNA ROAD BRIDGE  
OVER  
INTERSTATE HIGHWAY 95  
IN THE TOWN OF  
ETNA  
PENOBSCOT COUNTY  
BRIDGE RAIL DETAILS

SHEET 2 OF 6 AUGUSTA, MAINE 04/06/95



Bridge Rail Attachment Detail



### Butt Joint Detail

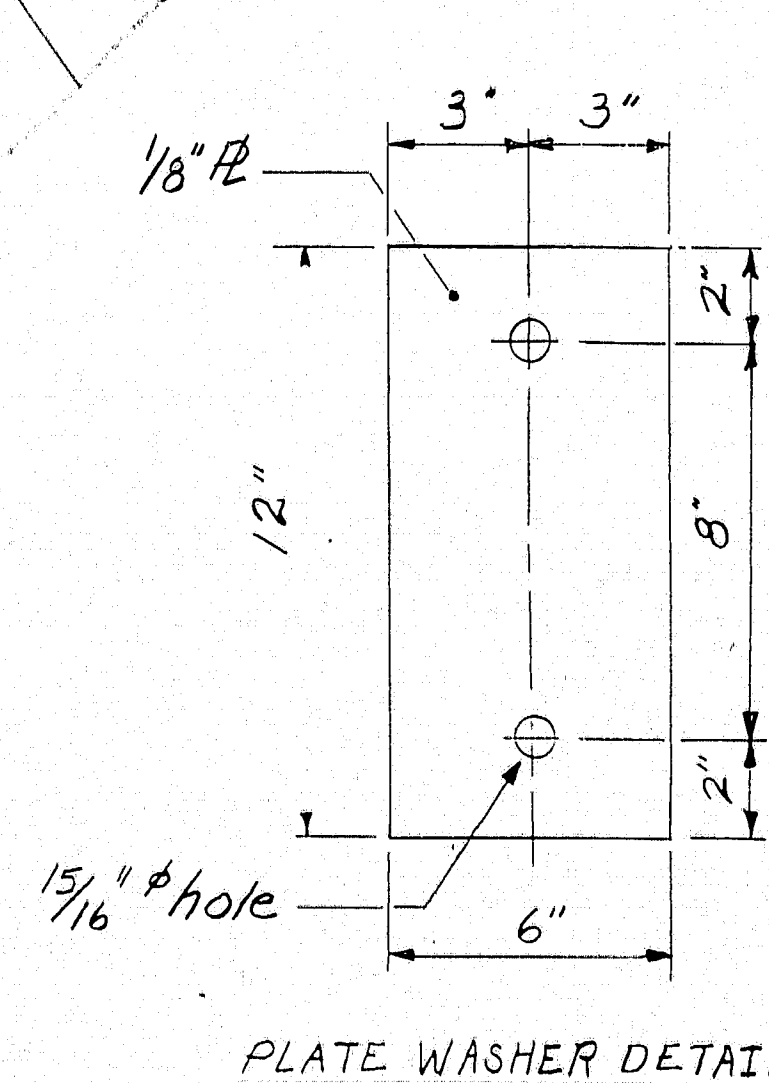
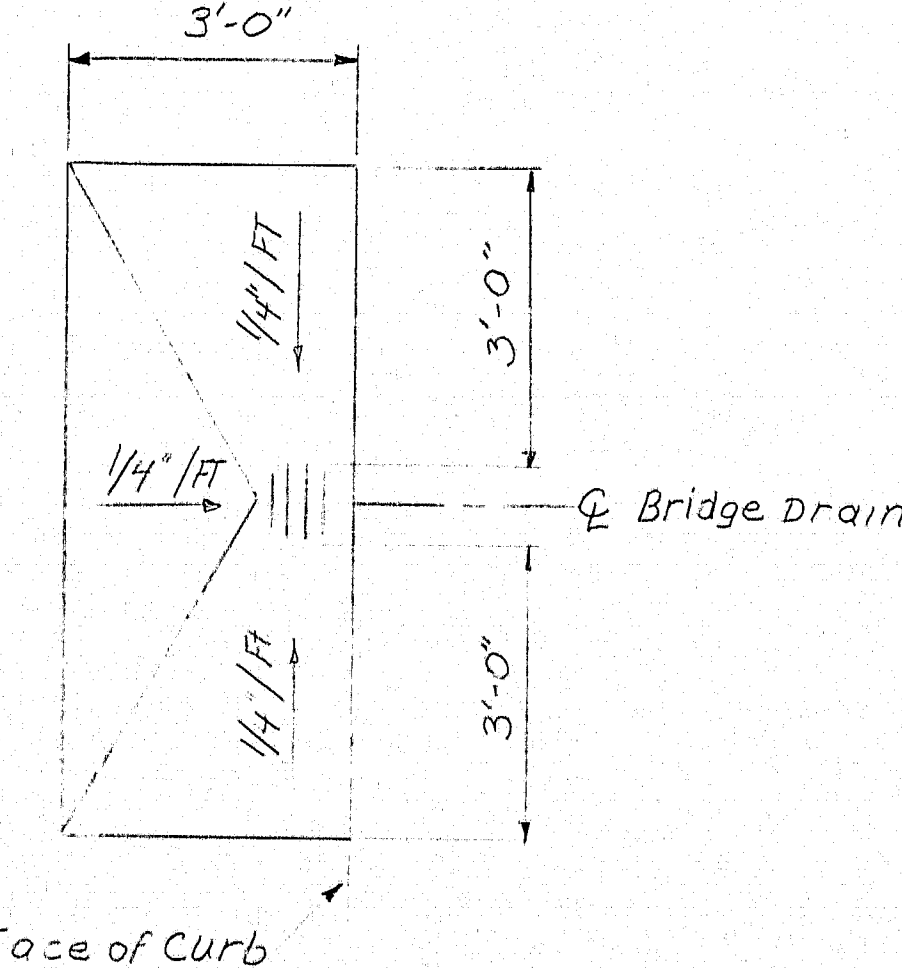
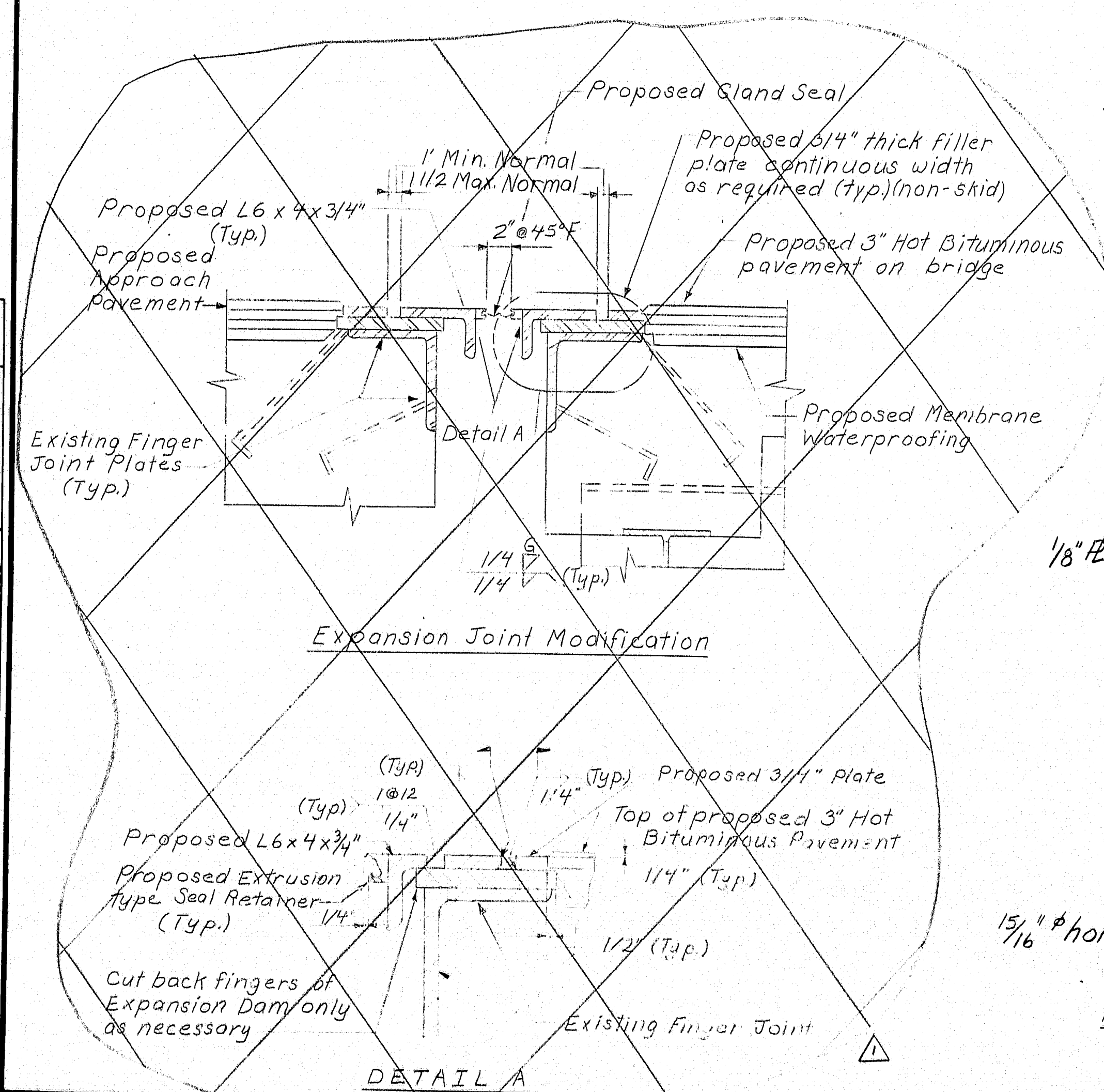


PLATE WASHER DETAIL



### Pavement Taper for Bridge Drains

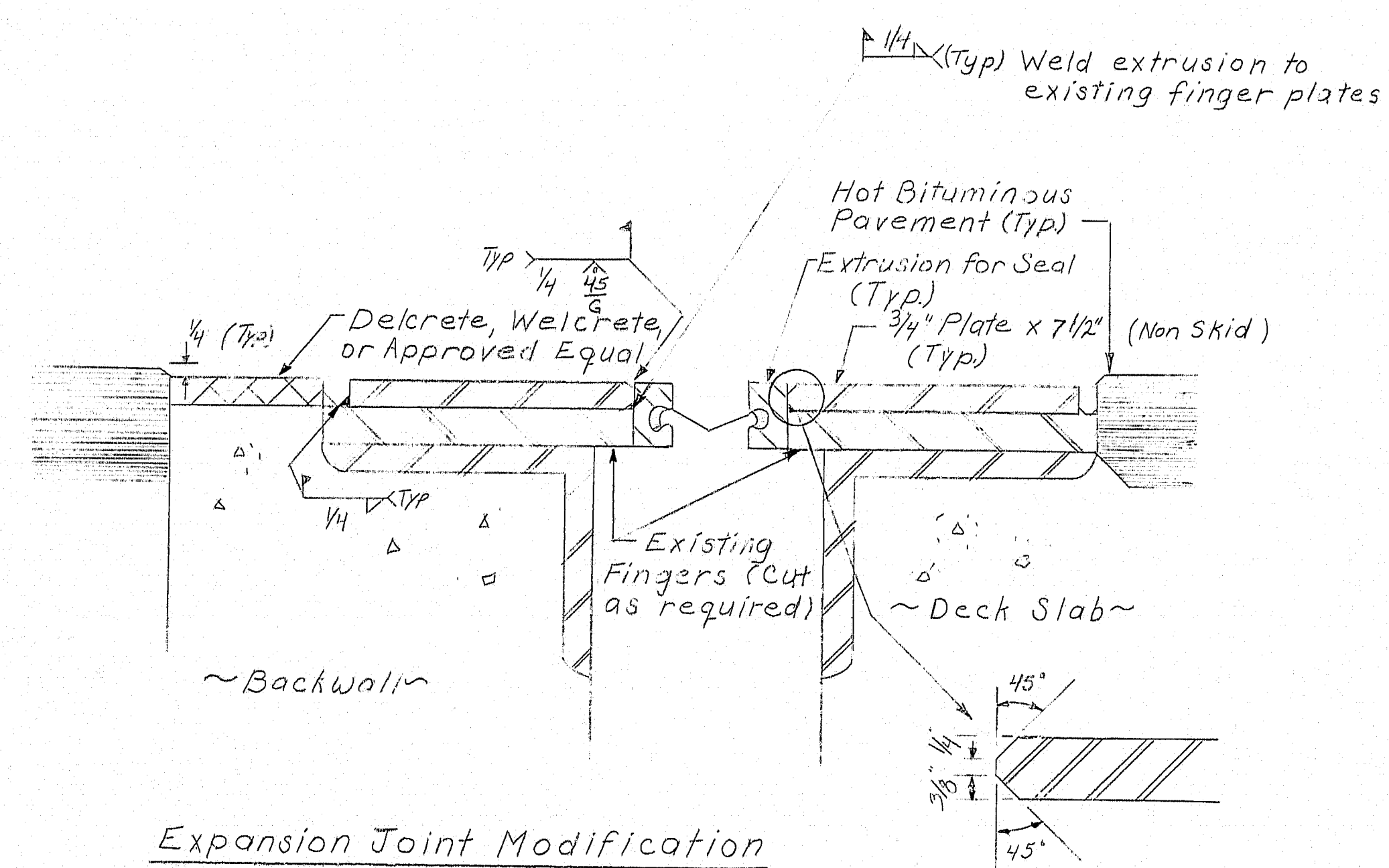


DETAIL A

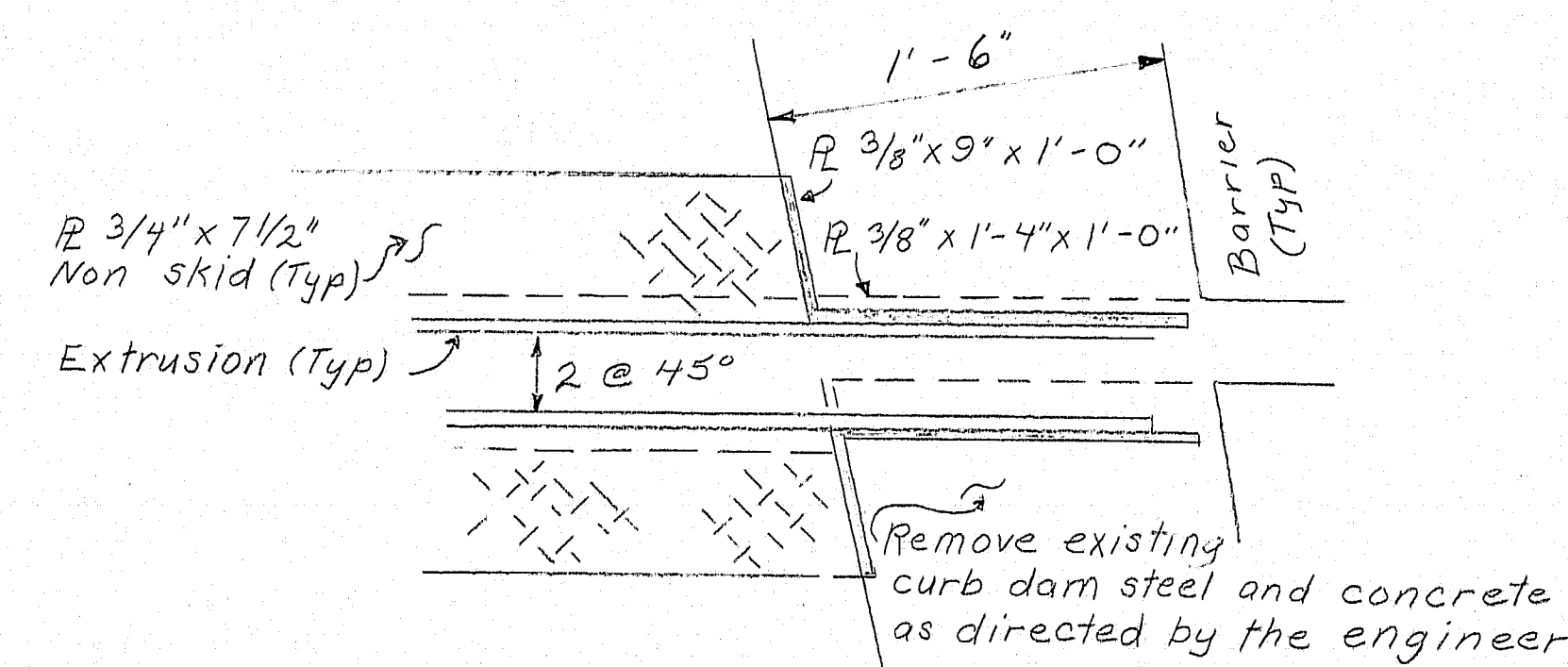
PROJECT DESIGN ENGINEER		BY	DATE
PLANS	DESIGN - DETAILED	EMM	4/95
	CHECKED		
	REVISIONS		
	REVISIONS		



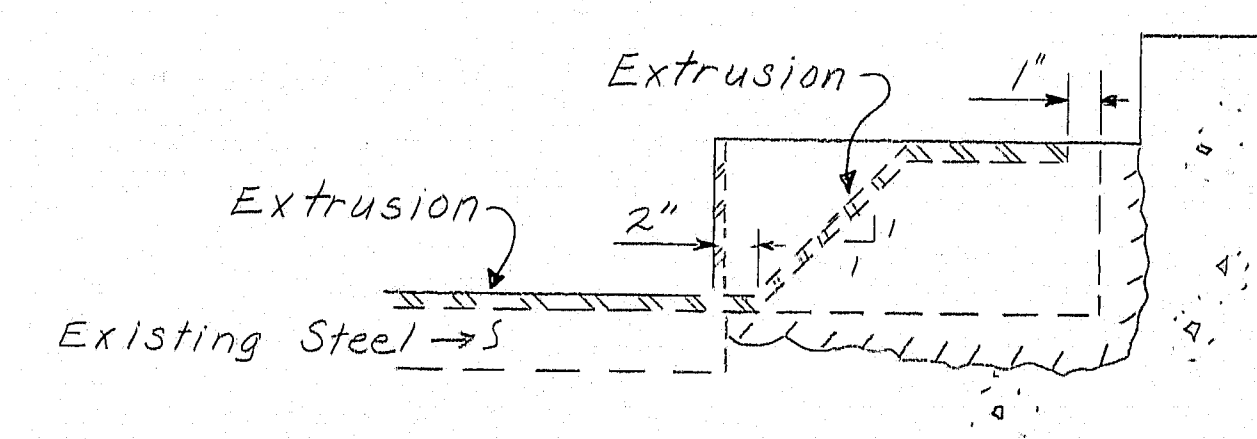
F.R.M.A. RES. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	115-95-8304	3	8



Expansion Joint Modification



PLAN



See BD 302-93 for plate anchorage

SECTION THROUGH JOINT

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN - DETAIL	BAW	5/25
CHECKED		
REVISIONS		
FIELD CHANGES		

PLANS

115-164

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

WEST ETNA ROAD BRIDGE  
OVER  
INTERSTATE HIGHWAY 95  
IN THE TOWN OF  
ETNA  
PENOBSCOT COUNTY

JOINT DETAILS

SHEET 2A OF 6 AUGUSTA, MAINE MAY 11, 1995