

* SEE PAVEMENT MARKING AND TRAFFIC SIGN PLAN ON SHEET 26 FOR LOCATION OF NEW METER POSTS.

CHANGE ELEVATION OF DI, MH, CB

11+65 RT DI
12+09 LT DI
12+31 LT MH
12+53 RT MH

VERTICAL GRANITE CURB

11+62-12+75 RT
13+48-13+90 RT
11+97-12+77 LT
13+51-13+56 LT
13+71-14+08 LT

REMOVE PARKING METER POSTS*

11+94 RT
12+17 RT
12+44 RT
12+80 RT
13+04 RT
13+26 RT
13+43 RT
13+55 RT
12+16 LT
12+61 LT
13+00 LT
13+22 LT
13+45 LT

BRIDGE RAIL-
1 RAIL BOX BEAM

12+75 - 13+46 RT
12+78 - 13+49 LT

REMOVE AND RESET GRANITE STEPS
(PAID UNDER ITEM 616.40
"REMOVING AND RESETTNG CURB" (MOD.)

13+70 RT

PORTLAND CEMENT CONCRETE
SIDEWALK, 5 INCH

11+97 LT - 12+78 LT
13+76 LT - 14+07 LT
11+62 RT - 11+74 RT
13+48 RT - 13+89 RT

REMOVE AND REPLACE GUARD POST
(PAID UNDER ITEM 621.85 "GUIDE POST" (MOD.)

13+83 LT

PORTLAND CEMENT CONCRETE
SIDEWALK, 8 INCH

11+58 LT - 11+97 LT
13+52 LT - 13+76 LT

**TREE SHALL BE RUSSIAN OLIVE 7' / 8' B-B
PLANT IN SAME LOCATION BOX ELDER IS
REMOVED

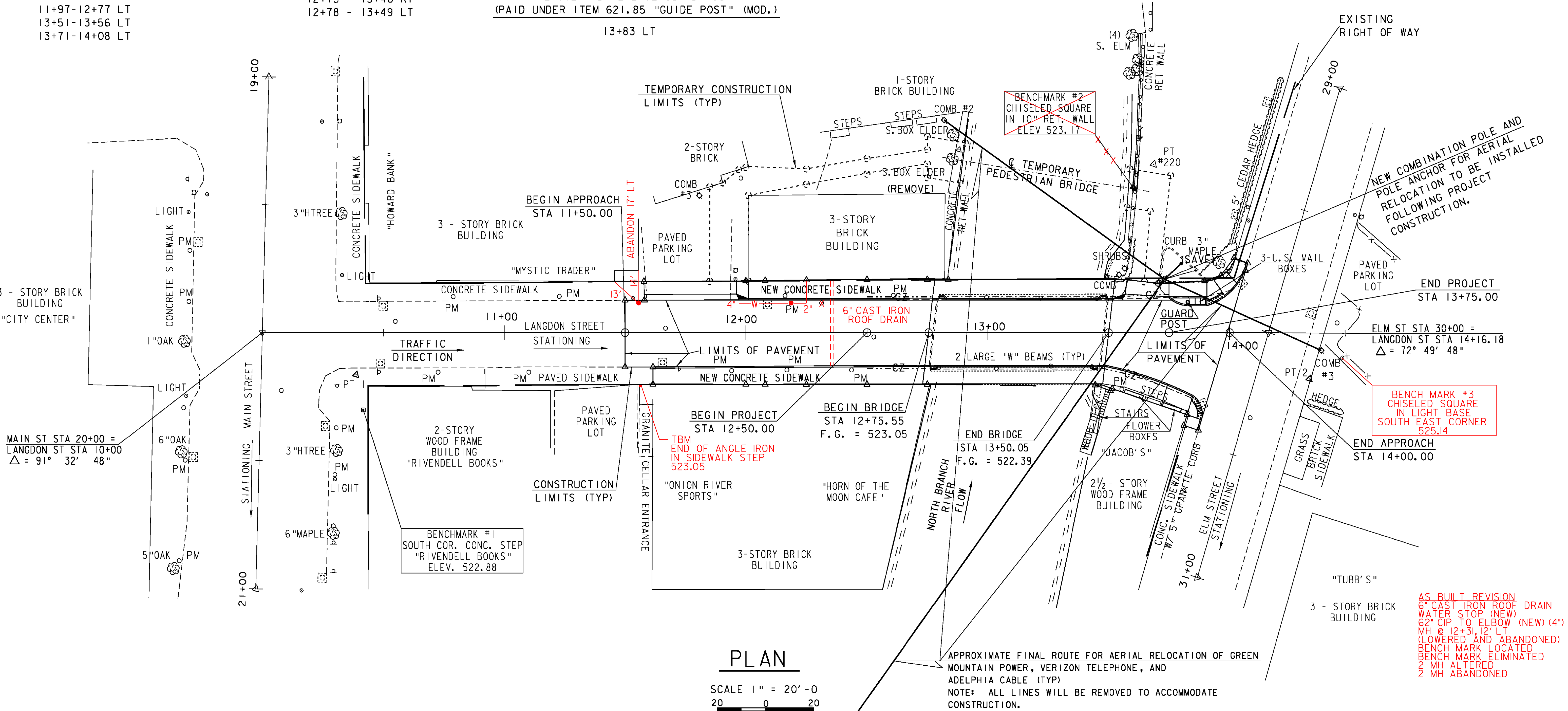
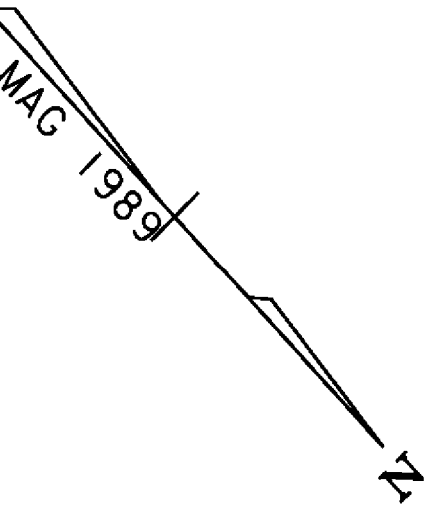
***SEE SIDEWALK DETAILS ON
SHEET 25

CONSTRUCT SIDEWALK RAMP TYPE 6***
(WITH DETECTABLE WARNING SURFACE)

13+87 RT
14+00 LT

PLANT DECIDUOUS TREE**

12+86 LT



DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	ASSUMED

EXISTING BRIDGE DATA
STEEL PONY TRUSS
73.44' SPAN
26'-0" ROADWAY
29'-11" OUTSIDE TO OUTSIDE OF TRUSS
2 - 5' SIDE WALKS
2 LARGE W SECTIONS EACH SIDE ADDED TO
SUPPORT BRIDGE INSIDE TRUSSES
ONE WAY TRAFFIC

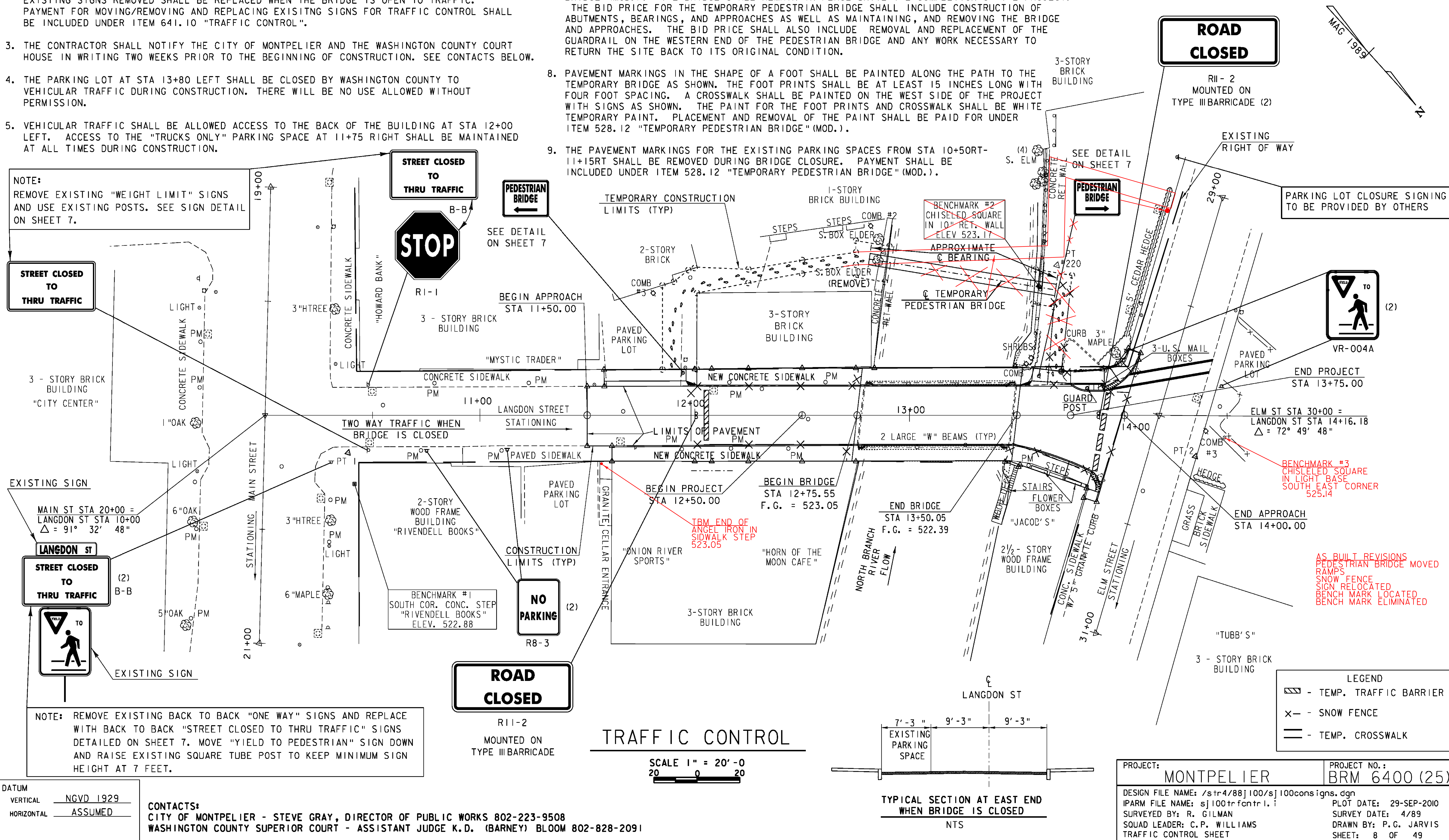
PROJECT: MONTPELIER	PROJECT NO.: BRM 6400(25)
DESIGN FILE NAME: /str4/88j100/sj100bdr.dgn	PLOT DATE: 29-SEP-2010
IPARM FILE NAME: /str4/88j100/sj100lcl.l	SURVEY DATE: 4/89
SURVEYED BY: R. GILMAN	DRAWN BY: W.B. SYMONDS
SQUAD LEADER: C.P. WILLIAMS	SHEET: 6 OF 49
LAYOUT SHEET	

TRAFFIC NOTES

1. ALL ON AND OFF PROJECT SIGNS AND BARRICADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID FOR UNDER THE ITEM 641.10 "TRAFFIC CONTROL", EXCEPT PEDESTRIAN BRIDGE SIGNS SHALL BE PAID FOR UNDER ITEM 528.12 "TEMPORARY PEDESTRIAN BRIDGE"(MOD.).
2. THE EAST END OF LANGDON STREET SHALL BE CONVERTED TO A TWO WAY STREET WHEN THE BRIDGE IS CLOSED. THE BRIDGE MAY BE CLOSED AT TWO SEPARATE TIMES DURING CONSTRUCTION. SIGNS UNDER ITEM 641.10 SHALL BE IN PLACE DURING THE BRIDGE CLOSURES. EXISTING SIGNS REMOVED SHALL BE REPLACED WHEN THE BRIDGE IS OPEN TO TRAFFIC. PAYMENT FOR MOVING/REMOVING AND REPLACING EXISTING SIGNS FOR TRAFFIC CONTROL SHALL BE INCLUDED UNDER ITEM 641.10 "TRAFFIC CONTROL".
3. THE CONTRACTOR SHALL NOTIFY THE CITY OF MONTPELIER AND THE WASHINGTON COUNTY COURT HOUSE IN WRITING TWO WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION. SEE CONTACTS BELOW.
4. THE PARKING LOT AT STA 13+80 LEFT SHALL BE CLOSED BY WASHINGTON COUNTY TO VEHICULAR TRAFFIC DURING CONSTRUCTION. THERE WILL BE NO USE ALLOWED WITHOUT PERMISSION.
5. VEHICULAR TRAFFIC SHALL BE ALLOWED ACCESS TO THE BACK OF THE BUILDING AT STA 12+00 LEFT. ACCESS TO THE "TRUCKS ONLY" PARKING SPACE AT 11+75 RIGHT SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

6. PEDESTRIAN TRAFFIC SHALL BE ALLOWED ACCESS TO THE FRONT OF THE BUILDINGS FROM STA 12+00 LEFT TO 12+50 LEFT AND FROM STA 11+62 RIGHT TO 12+76 RIGHT. ACCESS TO THE PORCH AND STAIRS AT STA 13+49 RIGHT AND THE MAIN ENTRANCE AT 13+69 RIGHT SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
7. A TEMPORARY PEDESTRIAN BRIDGE SHALL BE CONSTRUCTED DOWNSTREAM FROM THE LANGDON STREET TRUSS, AND SHALL BE PAID FOR UNDER THE ITEM 528.12 "TEMPORARY PEDESTRIAN BRIDGE"(MOD.). THE BRIDGE SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE PROJECT. THE BID PRICE FOR THE TEMPORARY PEDESTRIAN BRIDGE SHALL INCLUDE CONSTRUCTION OF ABUTMENTS, BEARINGS, AND APPROACHES AS WELL AS MAINTAINING, AND REMOVING THE BRIDGE AND APPROACHES. THE BID PRICE SHALL ALSO INCLUDE REMOVAL AND REPLACEMENT OF THE GUARDRAIL ON THE WESTERN END OF THE PEDESTRIAN BRIDGE AND ANY WORK NECESSARY TO RETURN THE SITE BACK TO ITS ORIGINAL CONDITION.
8. PAVEMENT MARKINGS IN THE SHAPE OF A FOOT SHALL BE PAINTED ALONG THE PATH TO THE TEMPORARY BRIDGE AS SHOWN. THE FOOT PRINTS SHALL BE AT LEAST 15 INCHES LONG WITH FOUR FOOT SPACING. A CROSSWALK SHALL BE PAINTED ON THE WEST SIDE OF THE PROJECT WITH SIGNS AS SHOWN. THE PAINT FOR THE FOOT PRINTS AND CROSSWALK SHALL BE WHITE TEMPORARY PAINT. PLACEMENT AND REMOVAL OF THE PAINT SHALL BE PAID FOR UNDER ITEM 528.12 "TEMPORARY PEDESTRIAN BRIDGE"(MOD.).
9. THE PAVEMENT MARKINGS FOR THE EXISTING PARKING SPACES FROM STA 10+50RT-11+15RT SHALL BE REMOVED DURING BRIDGE CLOSURE. PAYMENT SHALL BE INCLUDED UNDER ITEM 528.12 "TEMPORARY PEDESTRIAN BRIDGE"(MOD.).

10. TEMPORARY TRAFFIC BARRIER SHALL BE PAID FOR UNDER ITEM 621.90 "TEMPORARY TRAFFIC BARRIER".
11. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MONTPELIER TO HAVE THE PARKING METER HEADS REMOVED DURING BRIDGE CLOSURES AT STATIONS 10+70, 11+10, 11+94, 12+17, 12+44, 13+55 RIGHT AND AT STATIONS 12+16, 12+61 LEFT.



EROSION CONTROL NARRATIVE

DESCRIPTION OF PROJECT

This project is located on Langdon Street, Bridge # 11 over the North Branch of the Winooski River, in the County of Washington, City of Montpelier, Vermont.

Construction will consist of a new superstructure with related approach work. An inverset system made of pre-cast units of steel and concrete will be used for the new bridge's superstructure, utilizing the existing alignment. The existing trusses will be removed, cleaned, painted, and installed on the new bridge where they will be used to support the sidewalks.

Langdon Street will be closed to vehicular traffic during construction, and traffic will be detoured. A pedestrian footbridge will be installed by request of the City as a mitigation for potential loss of business during construction.

It is expected that the project will not take longer than one construction season.

SITE INVENTORY & ANALYSIS

OFF SITE DRAINAGE CHARACTERISTICS:

The project is as described above, within an urban setting, with storm drainage located on the street.

DRAINAGE, WATERWAYS, BODIES OF WATER:

The North Branch River is located in the project area. There are no other bodies of water or wetlands within the project area. The North Branch River empties into the Winooski River approximately 1/4 mile downstream.

TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES:

The topography of the project site is an urban setting, with the existing buildings containing a mix of retail stores and a restaurant.

Utility lines over the river in the project area will be relocated, in accordance with the aerial relocation routes shown on the plans.

VEGETATION:

Urban setting,see plans for location of limited number of trees and shrubs.

SOILS:

See Plan Boring Sheets

SENSITIVE RESOURCE AREAS:

Archeological - no
Threatened and Endangered Species - no
Wetlands - no
Farmlands - no
Historic - yes Bridge # 11 is listed on the National Register of Historic Places as a contributing resource to the Montpelier Historic District. A Section 4(f) evaluation pursuant to Department of Transportation Act, 1966, 49 U.S.C. 303 has been performed.

PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES:

There is expected to be no disturbance of natural or man-made waterways within the project area.

4. The construction entrances shall be swept and maintained at the end of each work day and as needed during the construction process to ensure minimal debris is left on the roadways.
5. The contractor shall include erosion prevention and sediment control practices as part of the CPM submittal required in Section 108.03. i.e. the sediment and debris catchment device is installed at the start of construction and all borrow and construction debris stock piles are covered daily during construction.

Under the Standard Specifications for Construction Section 105.22, an updated narrative shall be submitted to the Construction Environmental Engineer for their review.

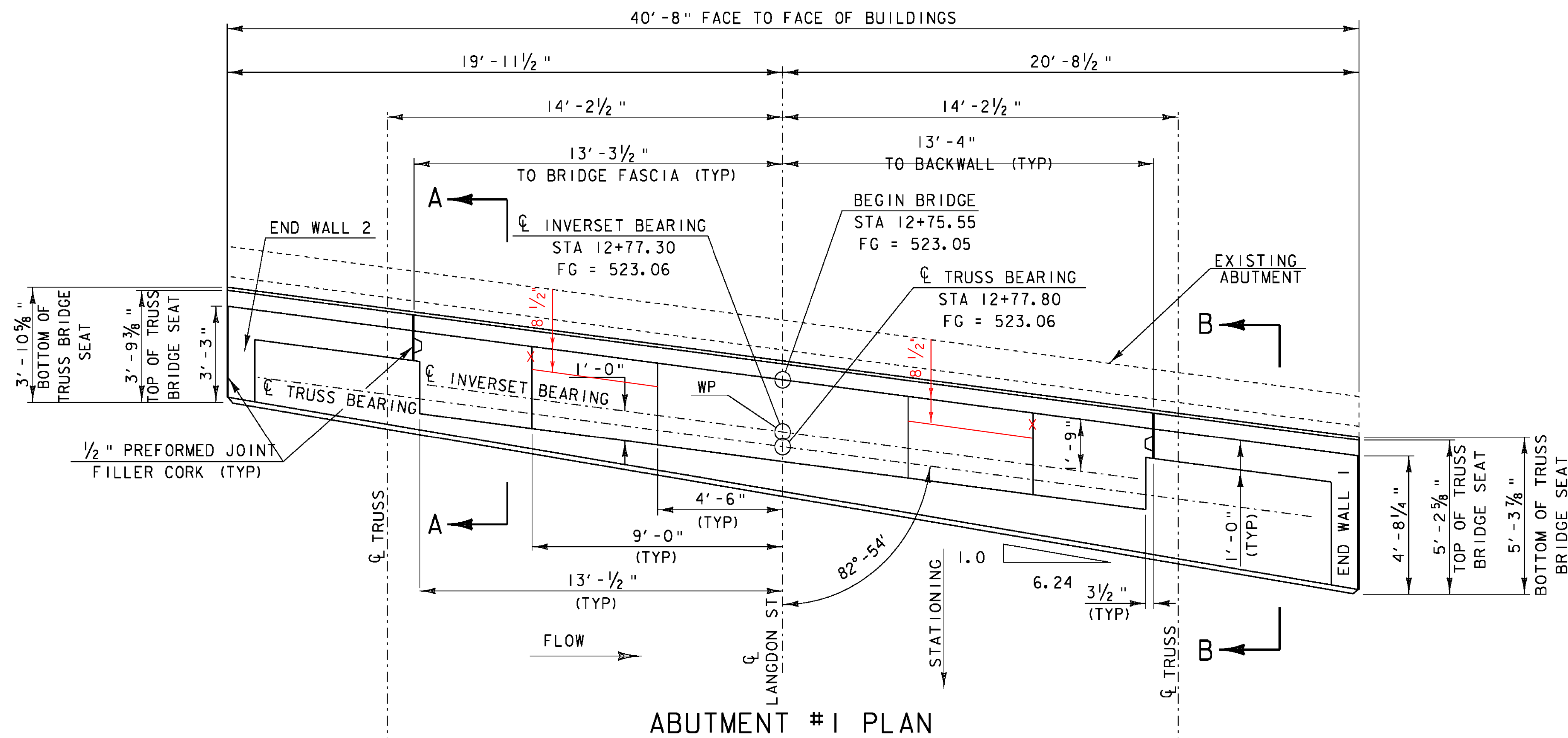
Payment for erosion prevention and sediment control practices shall be incidental to other items in the contract.

TEMPORARY EROSION PREVENTION & SEDIMENT CONTROL

Due to the nature of this project; urban setting, with no disturbance of soils or waterways, only an erosion prevention and sediment control plan in the form of a narrative is required. However, the following erosion prevention and sediment control practices are to be met:

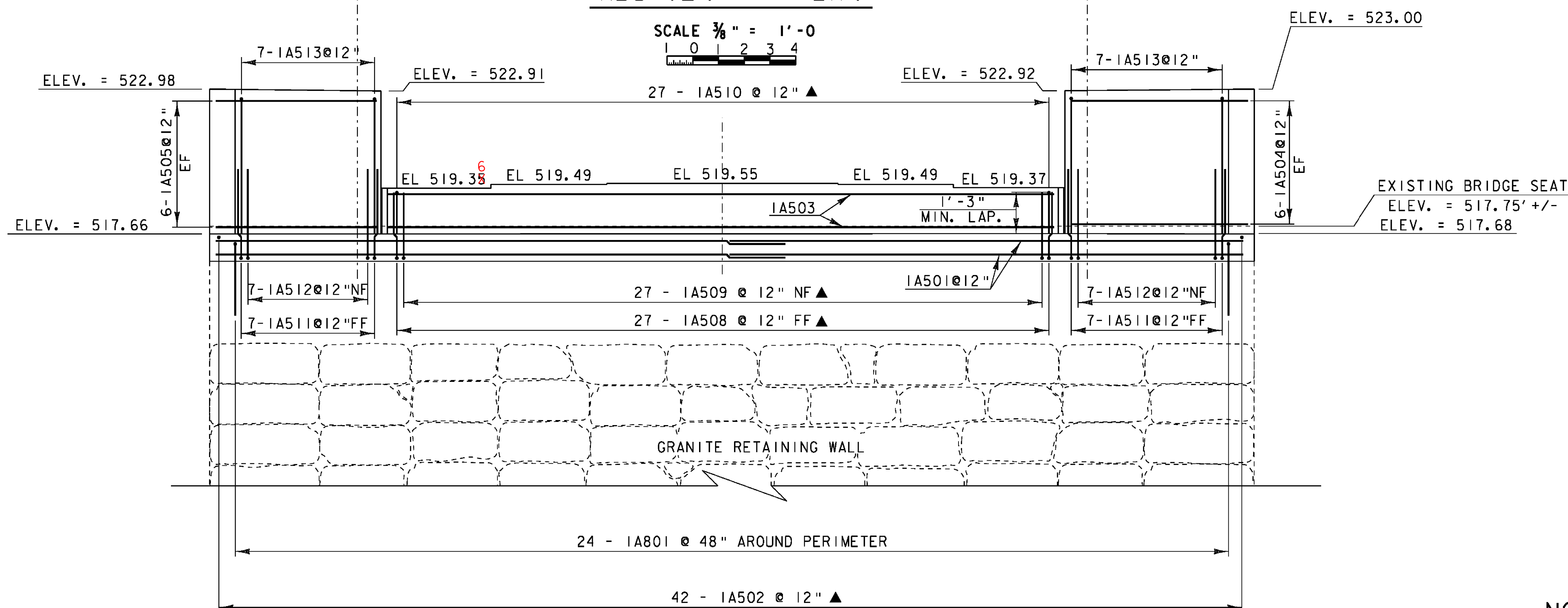
1. All excavated and borrow material stockpiles shall be covered with tarps at the end of each work day.
2. A catchment system should be employed under bridge during the duration of construction to help ensure construction sediment and debris is kept out of the river.
3. Proper sediment control measures shall be taken around DI's to prevent sediment from entering the drainage system.

PROJECT NAME: MONTPELIER	
PROJECT NUMBER: BRM 6400 (25)	
FILE NAME: 88j100ecn.xls	PLOT DATE: 11/23/2005
PROJECT LEADER: C.P. WILLIAMS	DRAWN BY: M. FESSEL
DESIGNED BY: M. FESSEL	CHECKED BY: R. YOUNG
EROSION CONTROL NARRATIVE	SHEET 13 OF 49



ABUTMENT #1 PLAN

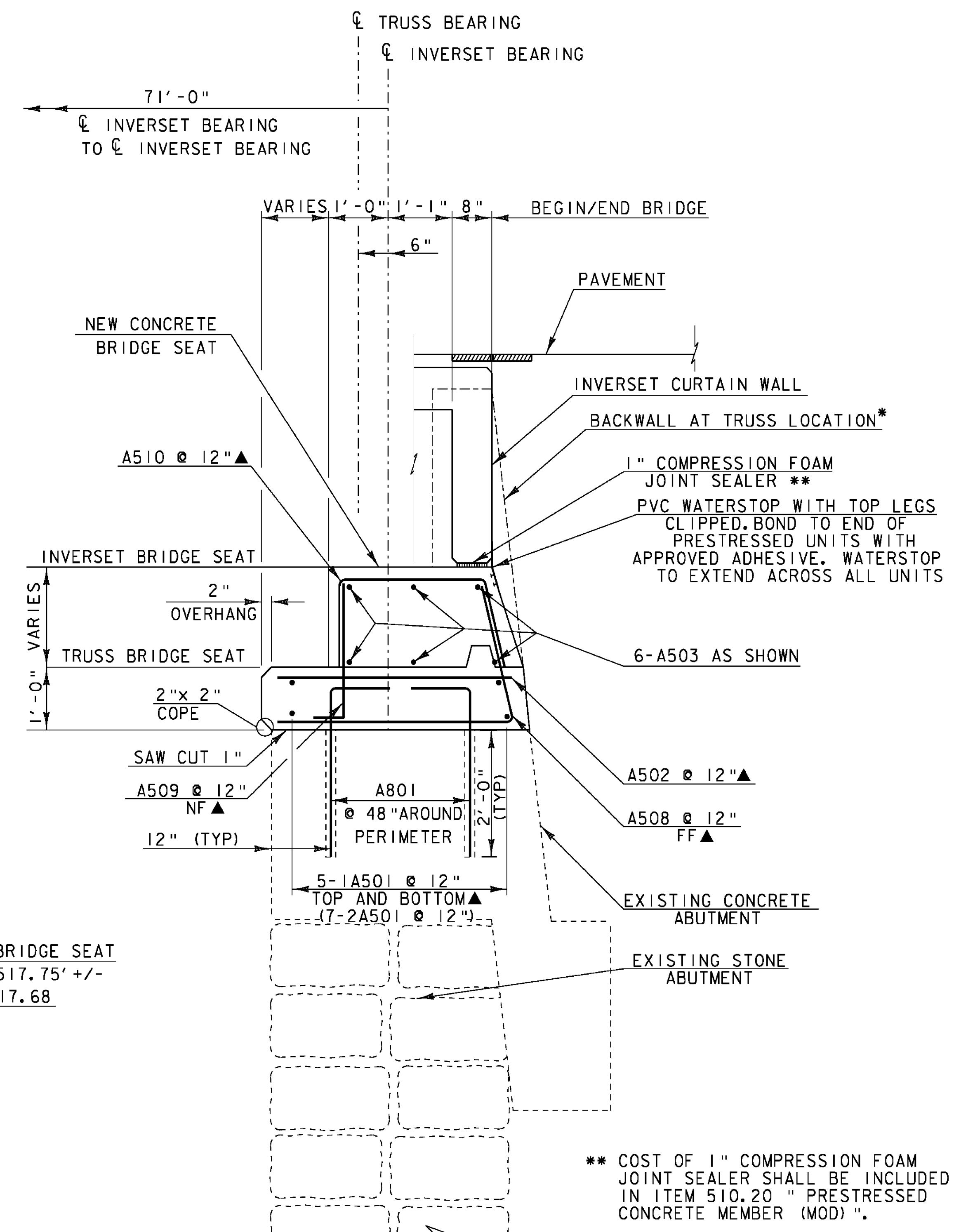
SCALE 3/8" = 1'-0"



ABUTMENT #1 ELEVATION

SCALE 3/8" = 1'-0"

NOTE:
REINFORCING STEEL SHALL BE ORIENTED PARALLEL WITH
CL LANGDON STREET, NOT PERPENDICULAR TO CL BEARINGS.



SECTION A-A
ABUTMENT #1 AND #2
INVERSE TYPICAL SECTION

*(SEE B-B NEXT PAGE)

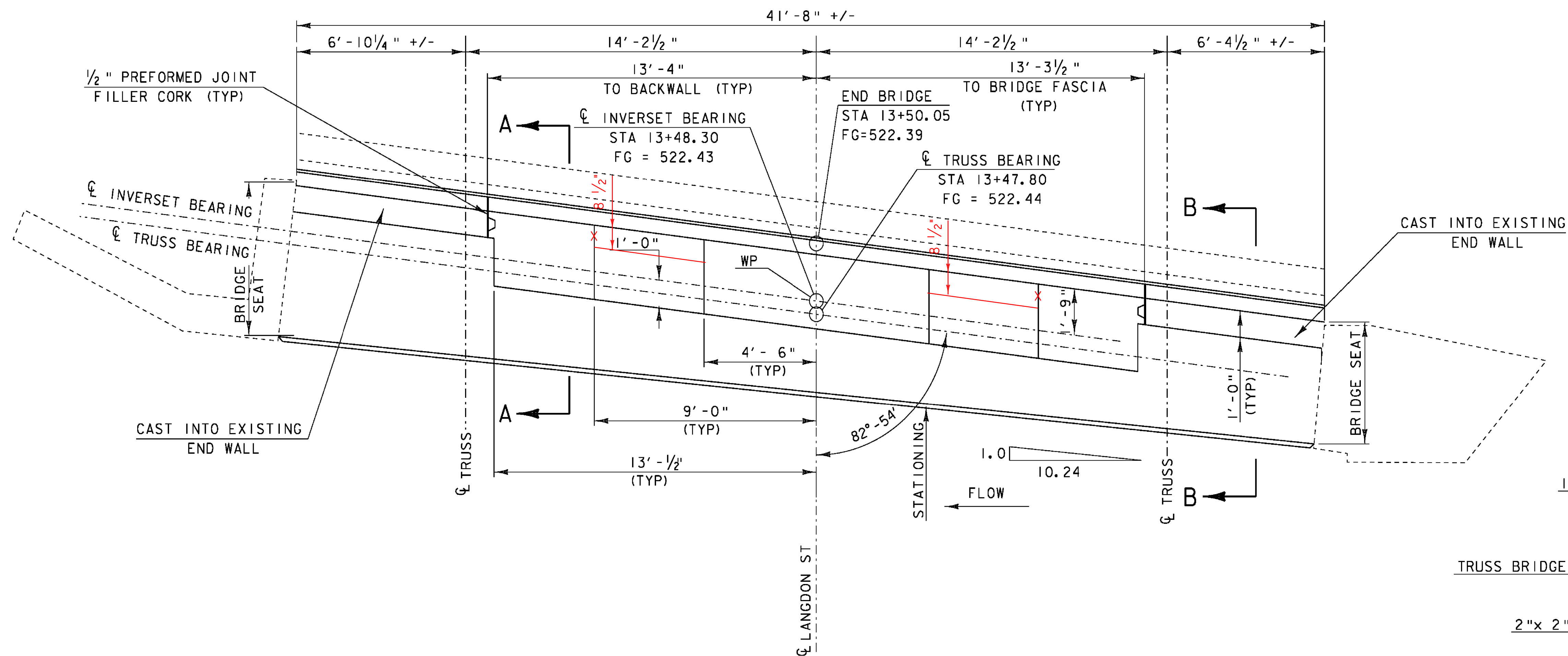
NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD 3" CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.
ALL LAPS 2'-2" UNLESS NOTED OTHERWISE.

SCALE 3/4" = 1'-0"

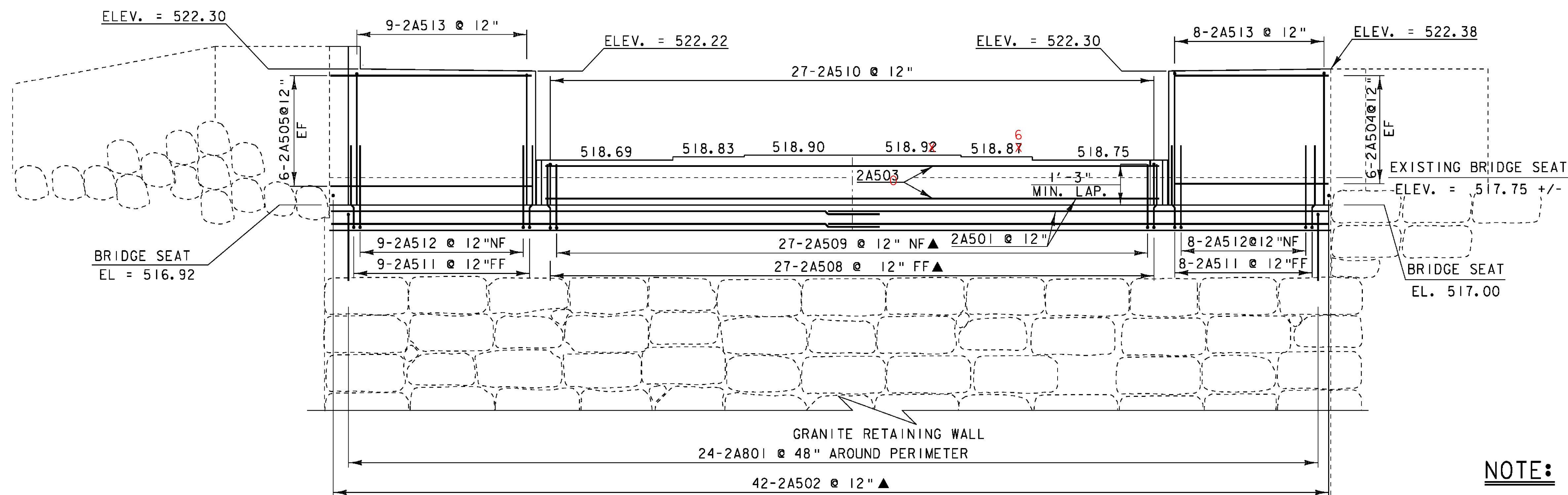
PROJECT:	MONTPELIER	PROJECT NO.:	BRM 6400 (25)
DESIGN FILE NAME:	88j100/structures/sj100Sub.dgn	PLOT DATE:	29-SEP-2010
IPARM FILE NAME:	sj100abuti.i	DRAWN BY:	M. LONGSTREET
DESIGNED BY:	R.S. YOUNG	CHECKED BY:	R.S. YOUNG
SQUAD LEADER:	C.P. WILLIAMS	SHEET:	21 OF 49
ABUTMENT #1 DETAILS			

AS BUILT REVISION
BRIDGE SEAT LAYOUT
SEAT ELEVATION



ABUTMENT #2 PLAN

SCALE 3/8" = 1'-0"



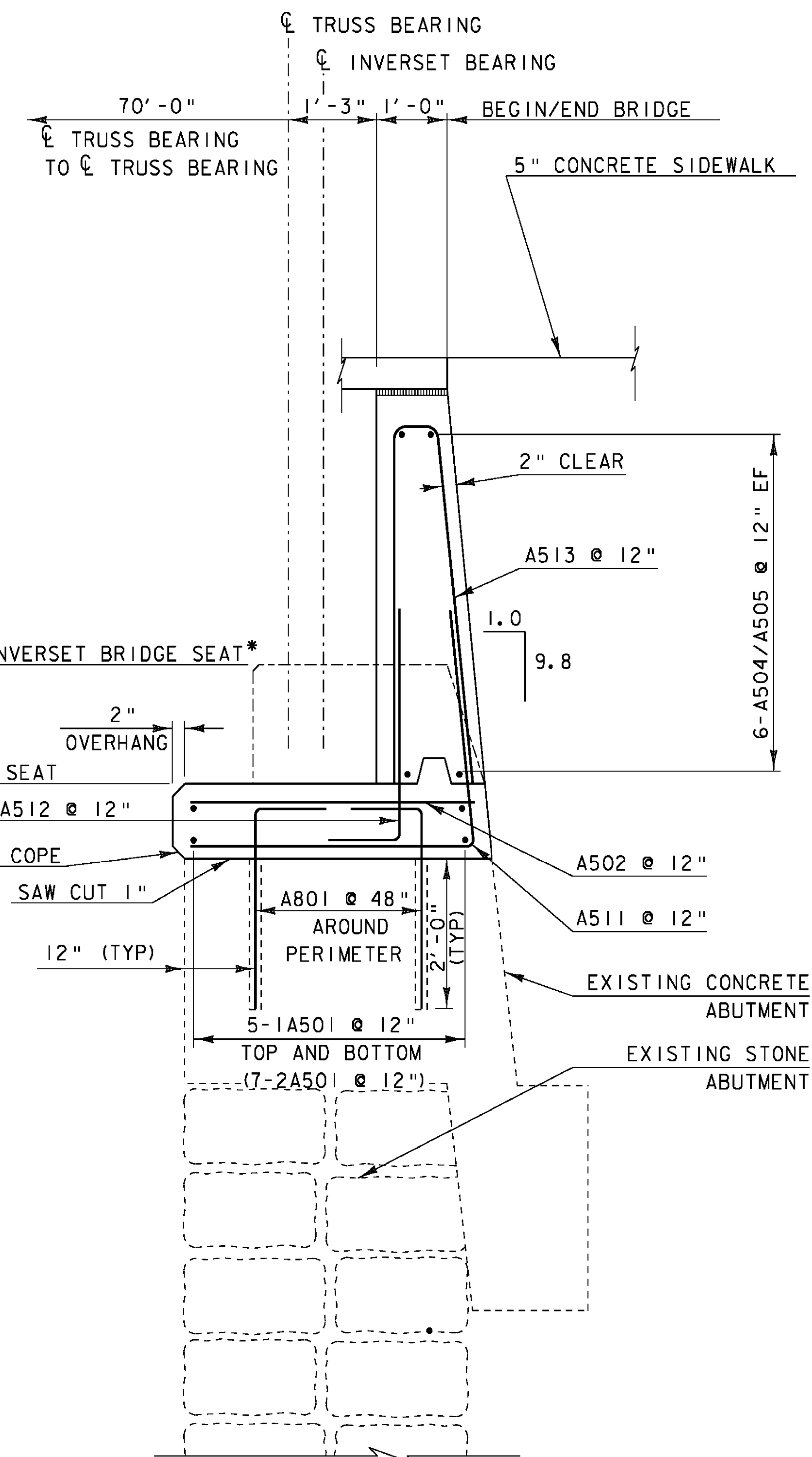
ABUTMENT #2 ELEVATION

SCALE 3/8" = 1'-0"

NOTE:
REINFORCING STEEL SHALL BE ORIENTED PARALLEL WITH
CL LANGDON STREET, NOT PERPENDICULAR TO CL BEARINGS.

NOTE:

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EF = EACH FACE
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3" CLR. UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
ALL LAPS 2'-2" UNLESS
NOTED OTHERWISE.

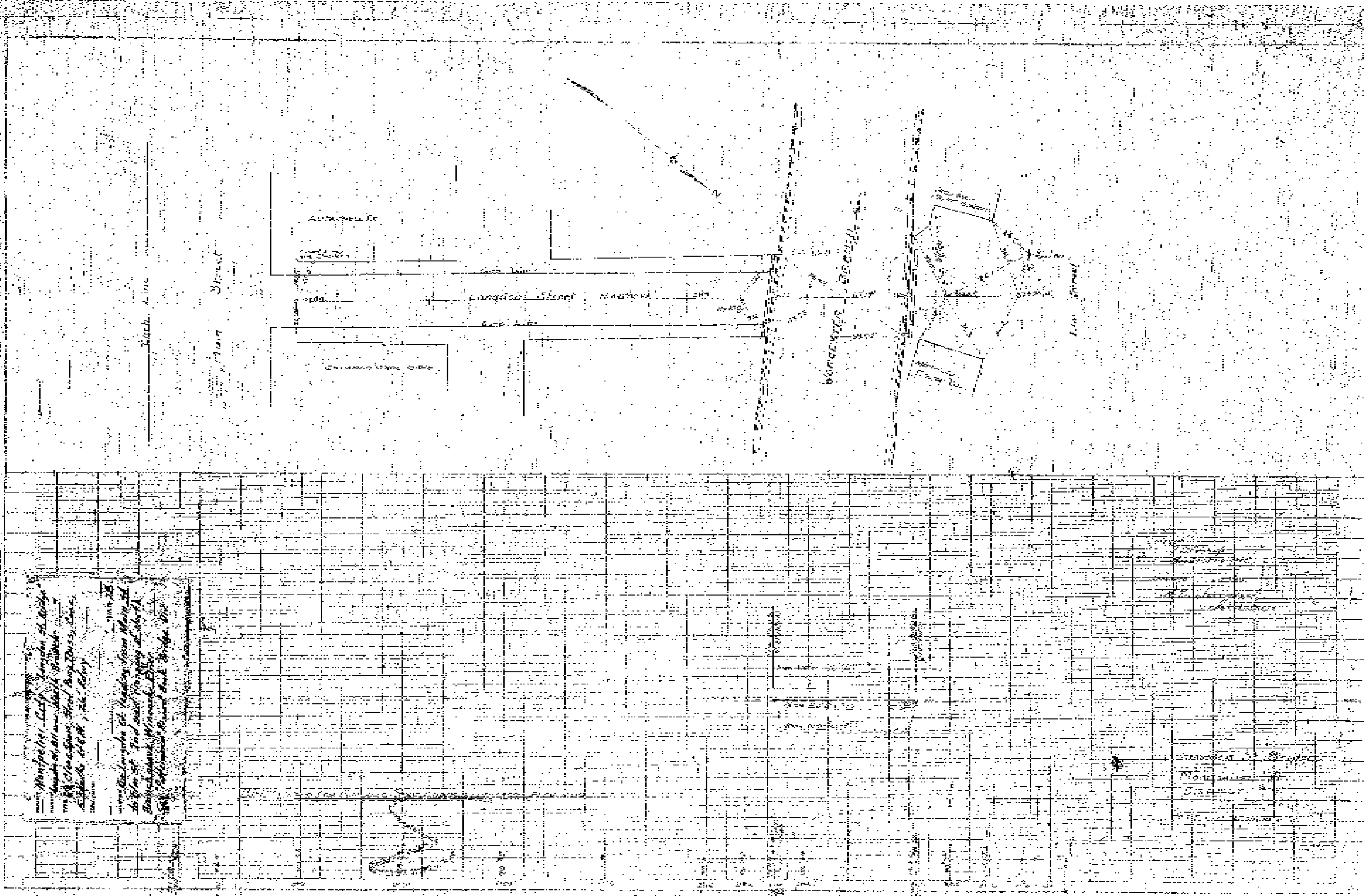


SECTION B-B
ABUTMENT #1 AND #2
TRUSS TYPICAL SECTION

*(SEE A-A PREVIOUS PAGE)

SCALE 3/4" = 1'-0"

PROJECT:	MONTPELIER	PROJECT NO.:	BRM 6400 (25)
DESIGN FILE NAME:	88j100/structures/sj100sub.dgn	PLOT DATE:	29-SEP-2010
IPARM FILE NAME:	sj100abut2.i	DESIGNED BY:	R.S. YOUNG
		SQUAD LEADER:	C.P. WILLIAMS
		CHECKED BY:	R.S. YOUNG
		ABUTMENT #2 DETAILS	SHEET: 22 OF 49



Project Name: _____
Project No: _____
Project Date: _____

Project Name: _____
Project No: _____
Project Date: _____

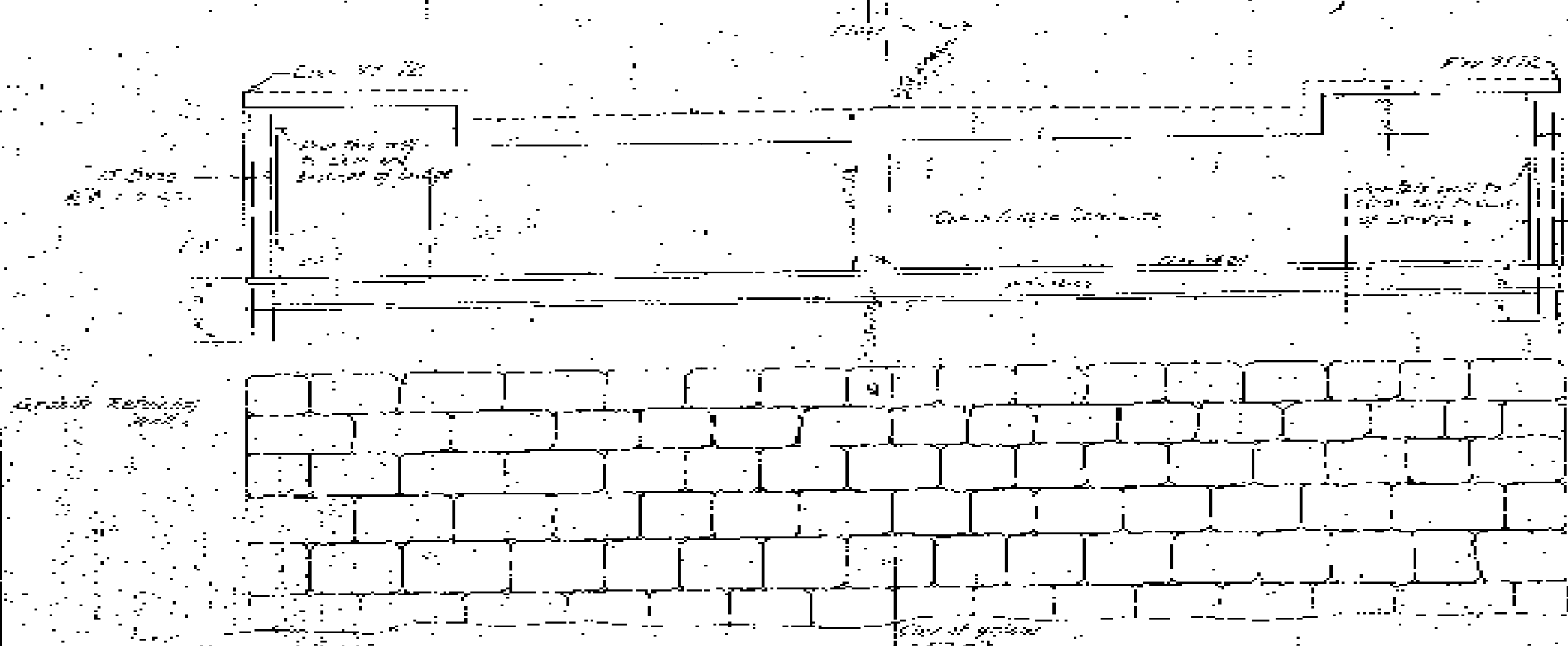
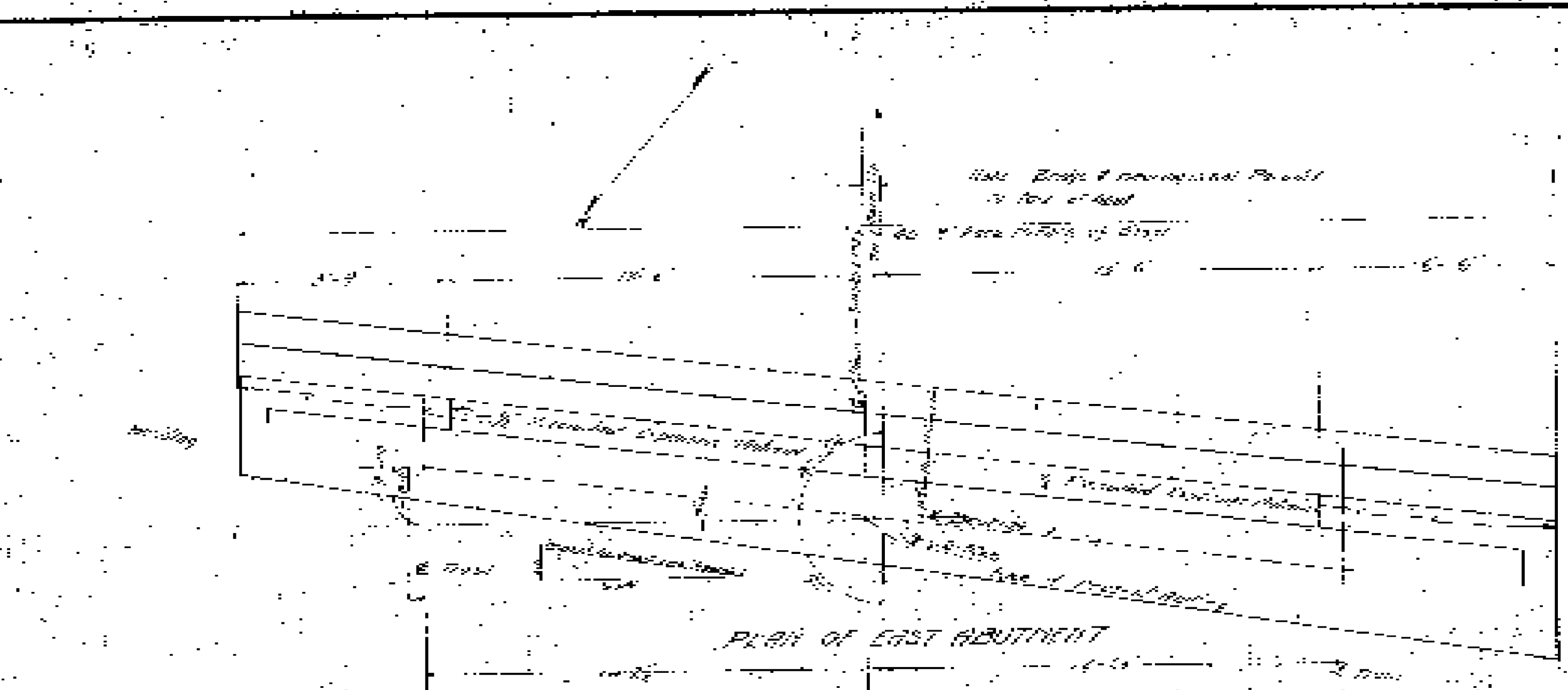
Montpelier City, Vermont
School of the Holy Family
1000 North Main Street
Montpelier, Vermont 05602
Phone: (802) 845-1234
Fax: (802) 845-1235
Website: www.schooloratory.org

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Montpelier, Vermont 05602
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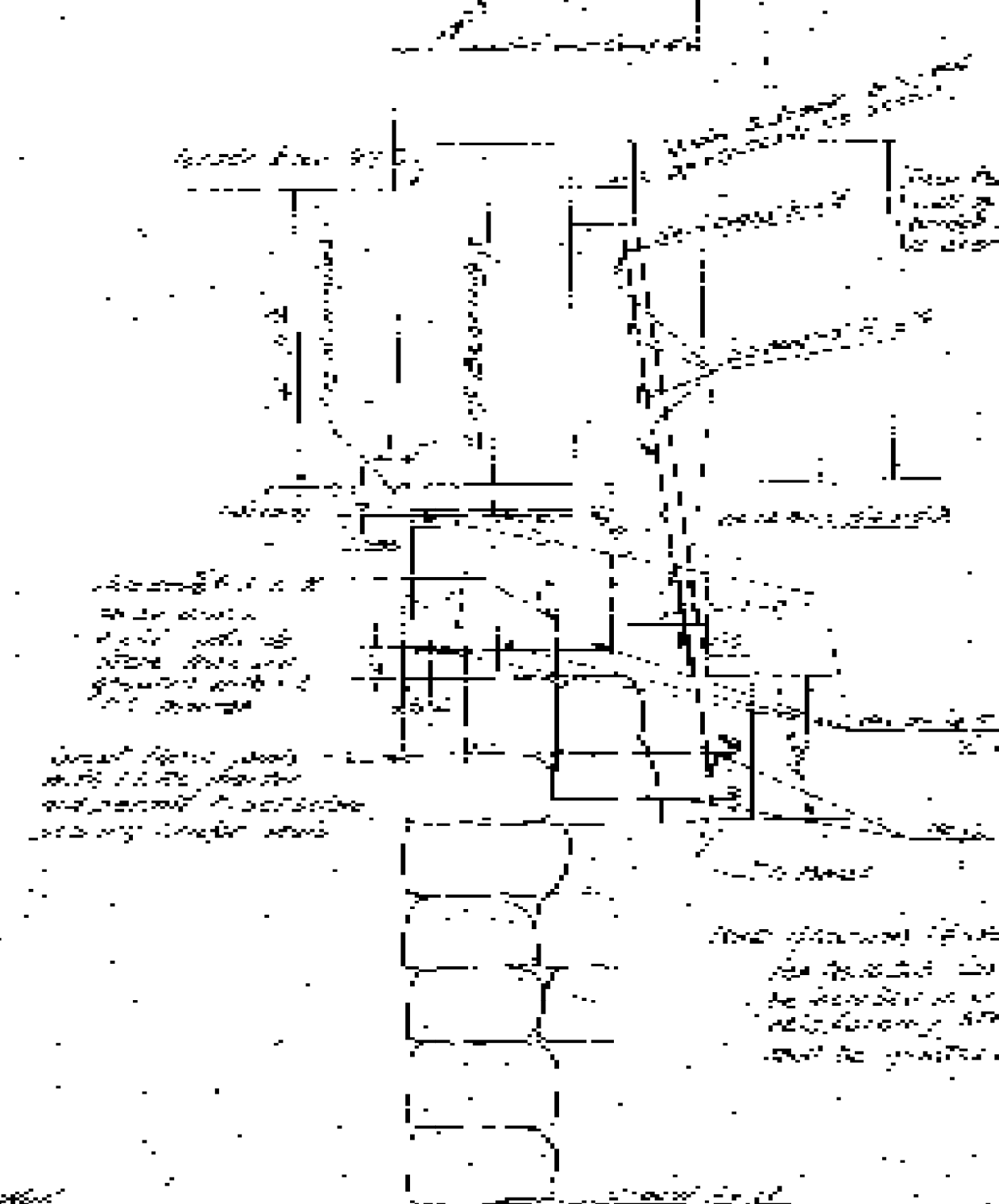
NTS

PROJECT:	MONTPELIER	PROJECT NO.:	BRM_6400_(25)
DESIGN FILE NAME:	88j1002structures/sj100cef.dgn	IPARM FILE NAME:	sj100cef.i
DESIGNED BY:	B.S. YOUNG	DRAWN BY:	M. FESSEL
SQUAD LEADER:	C.P. WILLIAMS	CHECKED BY:	B.S. YOUNG
REFERENCE SHEETS		SHEET:	39 OF 49

EAST AND WEST ABUTMENTS	
ABUTMENT NO.	6400
PROJECT NO.	BRM 6400 (25)
DATE	12/27/2011
DESIGNED BY	R. S. YOUNG
CHECKED BY	R. S. YOUNG
PROJECT LEADER	C. P. WILLIAMS
REFERENCE SHEETS	
THE STRUCTURE AND DESIGN OF THE BRIDGE ARE BASED ON THE ASSUMPTIONS AND CONDITIONS SET FORTH IN THE SPECIFICATIONS FOR BRIDGE CONSTRUCTION, EDITION 1994, AND THE DESIGN MANUAL FOR BRIDGE ENGINEERS, EDITION 1994. THE STRUCTURE IS DESIGNED TO RESIST THE LOADS AND EFFECTS OF THE TRUCK, WIND, AND SEISMIC LOADS AS SPECIFIED IN THE SPECIFICATIONS AND DESIGN MANUAL. THE STRUCTURE IS DESIGNED TO HAVE A SERVICE LIFE OF 100 YEARS AND TO BE MAINTAINED IN GOOD CONDITION THROUGHOUT ITS LIFE.	



ELEVATION OF EAST ABUTMENT
(Facing End of Bridge)



TYPICAL DETAIL OF ABUTMENT
(Facing End)

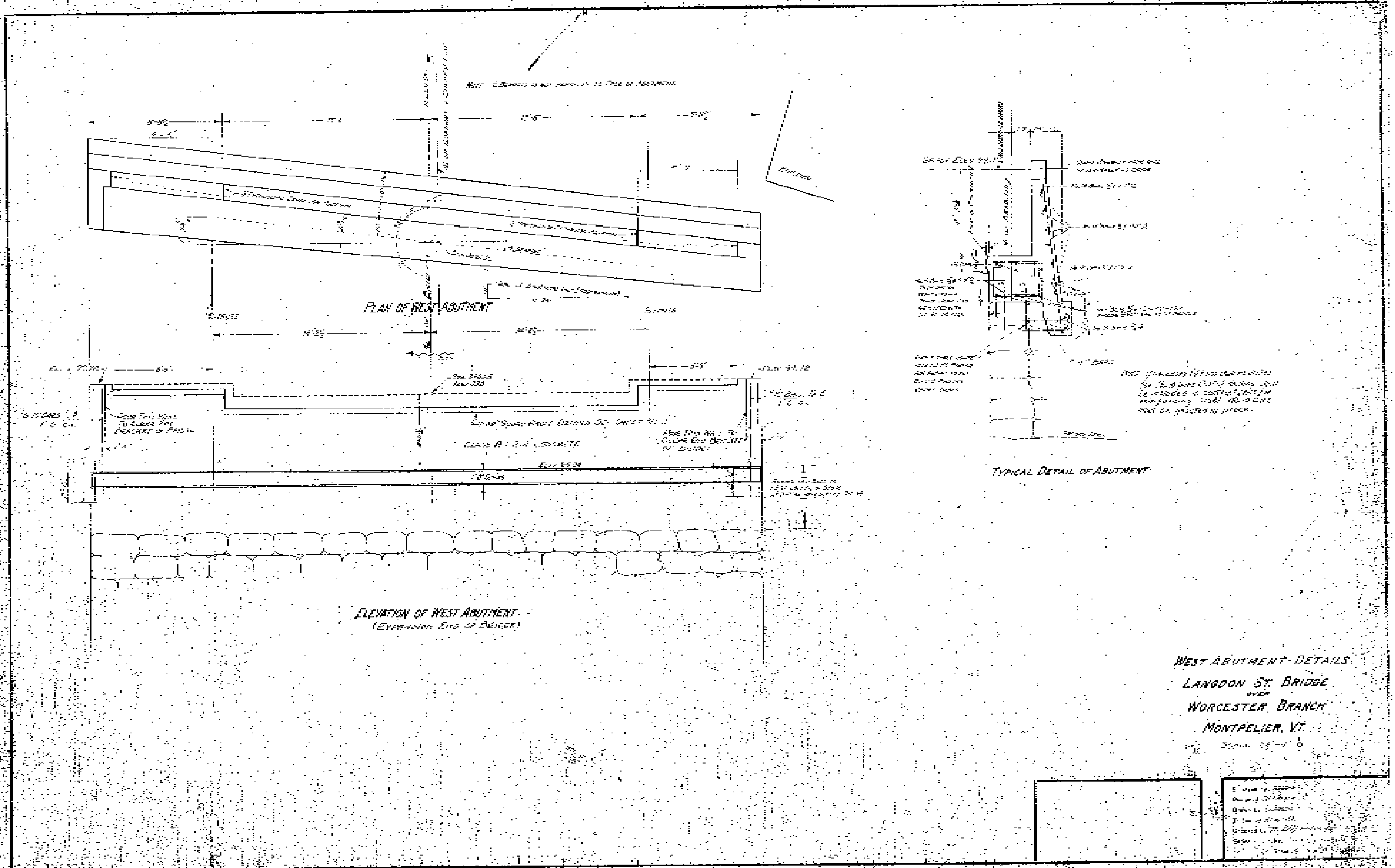
EAST ABUTMENT DETAILS
LONDON ST. BRIDGE
WORCESTER BRIDGE
MONTPELIER, VT.
Scale 1/2" = 1'-0"

QUANTITIES - EAST ABUTMENT DETAILS	
Concrete	1,100 cu yd
Reinforcing Steel	32,000 lbs
Formwork	1,200 sq ft
Excavation	25 cu yd

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Concrete	1,100 cu yd
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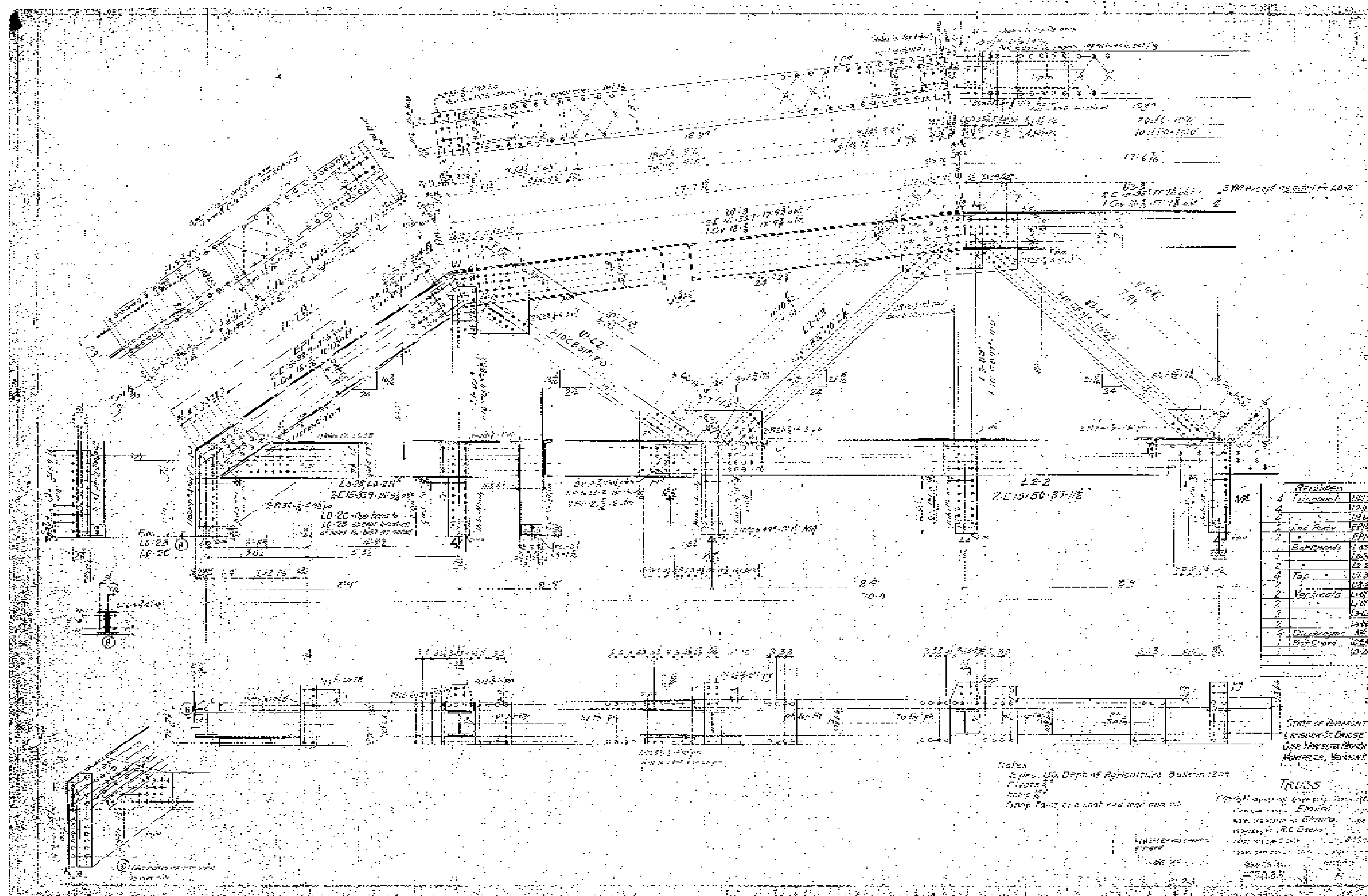
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PROJECT:	MONTPELIER	PROJECT NO.:	BRM 6400 (25)
DESIGN FILE NAME:	88j100/structures/sj100ref.dgn	DESIGNED BY:	R. S. YOUNG
IPARM FILE NAME:	sj100ref3.i	CHECKED BY:	R. S. YOUNG
SQUAD LEADER:	C. P. WILLIAMS	REFERENCE SHEETS:	
SHEET:	41	OF	49



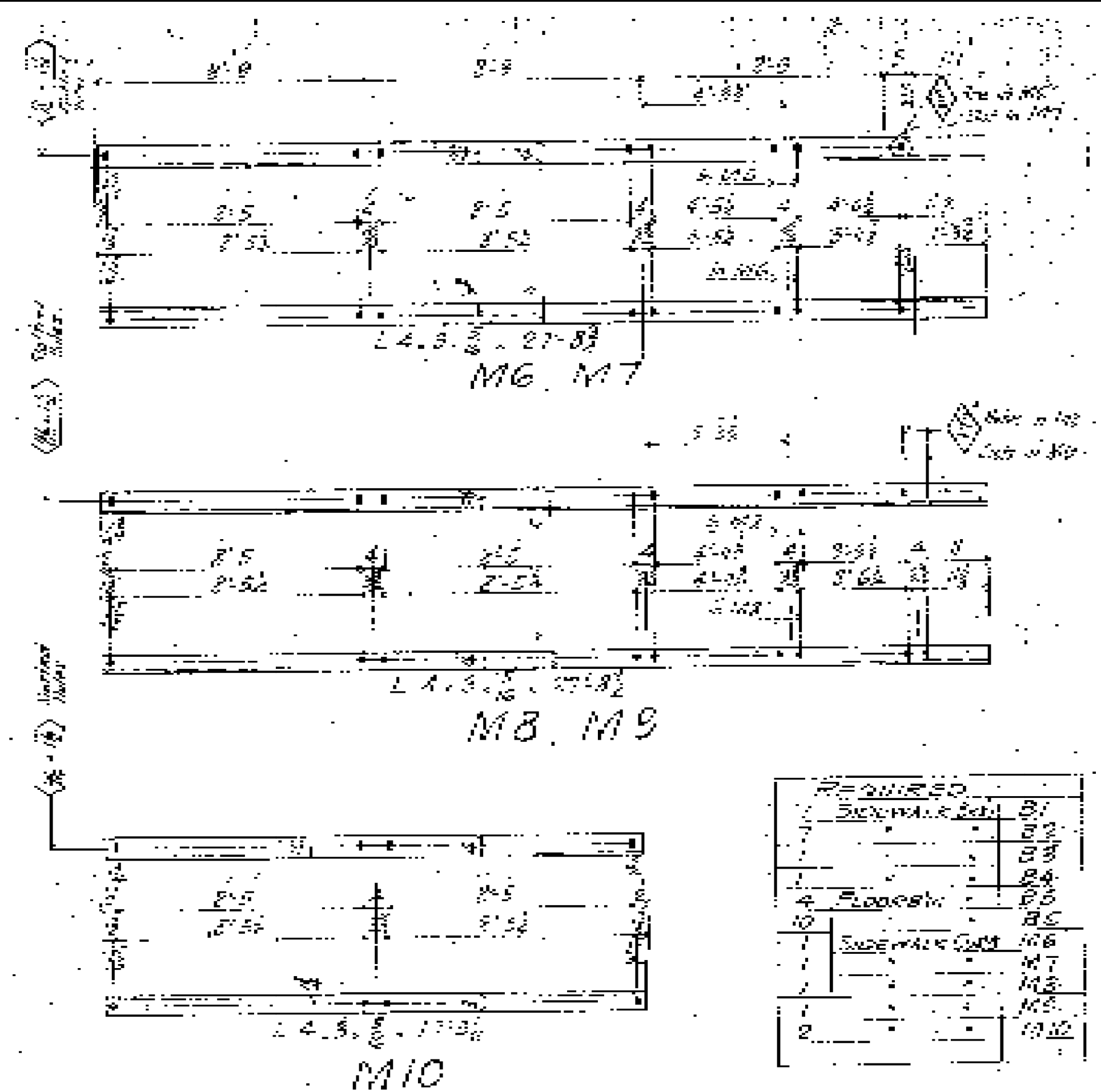
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PROJECT:	MONTPELIER	PROJECT NO.:	BRM 6400 (25)
DESIGN FILE NAME:	88j100/structures/sj100ref.dgn	DESIGNED BY:	R. S. YOUNG
IPARM FILE NAME:	sj100ref4.i	DESIGNED BY:	R. S. YOUNG
SQUAD LEADER:	C. P. WILLIAMS	CHECKED BY:	R. S. YOUNG
REFERENCE SHEETS		SHEET:	42 OF 49

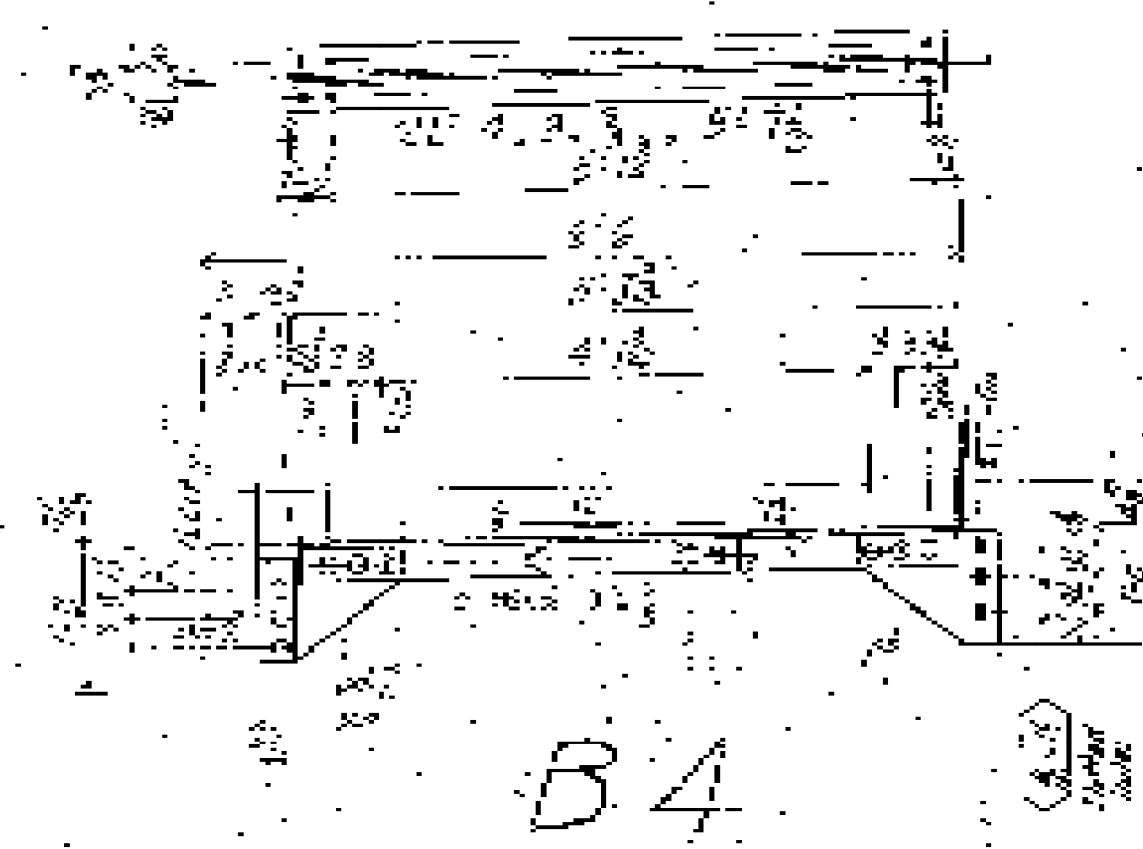


REINFORCEMENT	DETAIL
1. Foundation	100%
2. Floor Slab	100%
3. Wall	100%
4. Roof	100%
5. Vertical	100%
6. Horizontal	100%
7. Diagonal	100%
8. Other	100%

PROJECT:	PROJECT NO.:
MONTPELIER	BRM 6400 (25)
DESIGN FILE NAME: 88j100/structures/sj100ref.dgn	PLOT DATE: 27-DEC-2011
IPARM FILE NAME: sj100ref6.i	DRAWN BY: M. FESSEL
DESIGNED BY: R.S. YOUNG	CHECKED BY: R.S. YOUNG
SQUAD LEADER: C.P. WILLIAMS	SHEET: 44 OF 49
REFERENCE SHEETS	



REQUIREDO	
1	SIDEWALK CONT. 81
1	" " 82
1	" " 83
1	" " 84
4	FLORIST 85
10	" " 86
1	SIDEWALK CONT. 86
1	" " 87
1	" " 88
1	" " 89
2	" " 90



NOTES
 Species - H.C. Dept of Agriculture, Oct. * 1959
 Rivers - $\frac{1}{2}$ S & Unpass noted.
 Holes - $\frac{1}{2}$ S
 Shrub Pines - one each nest found a oil

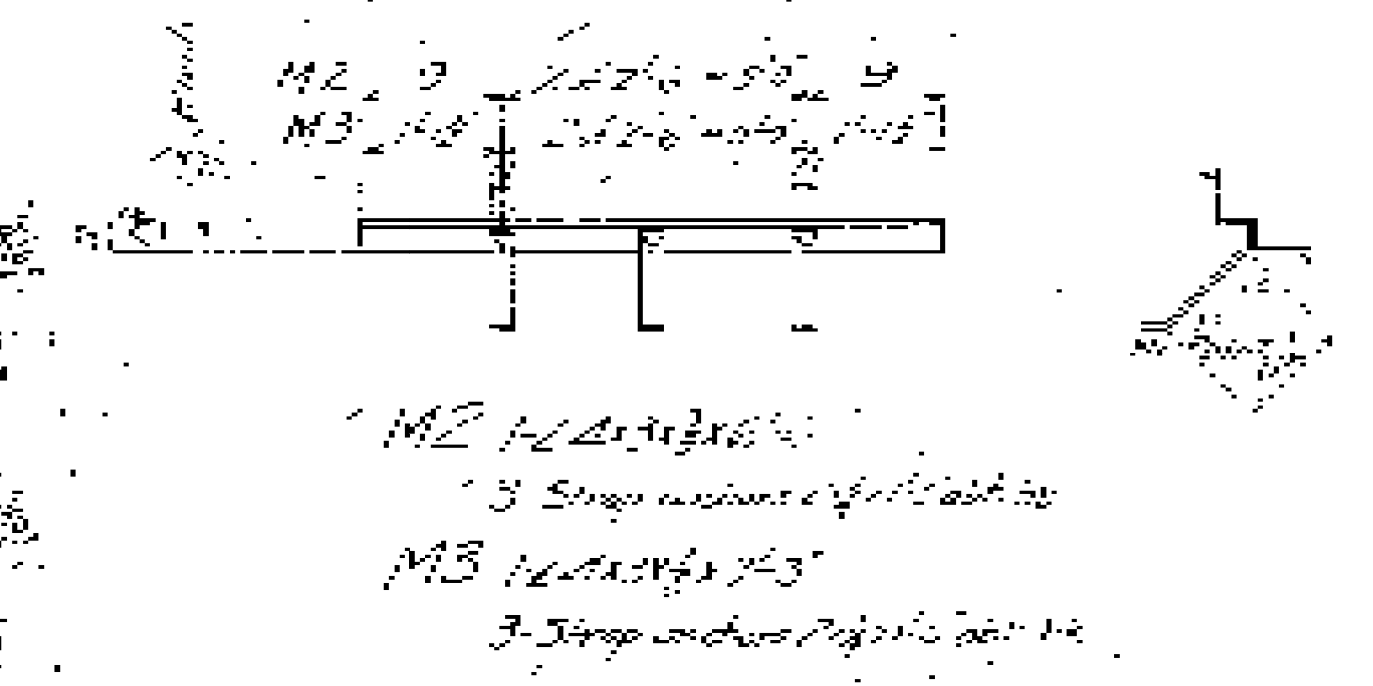
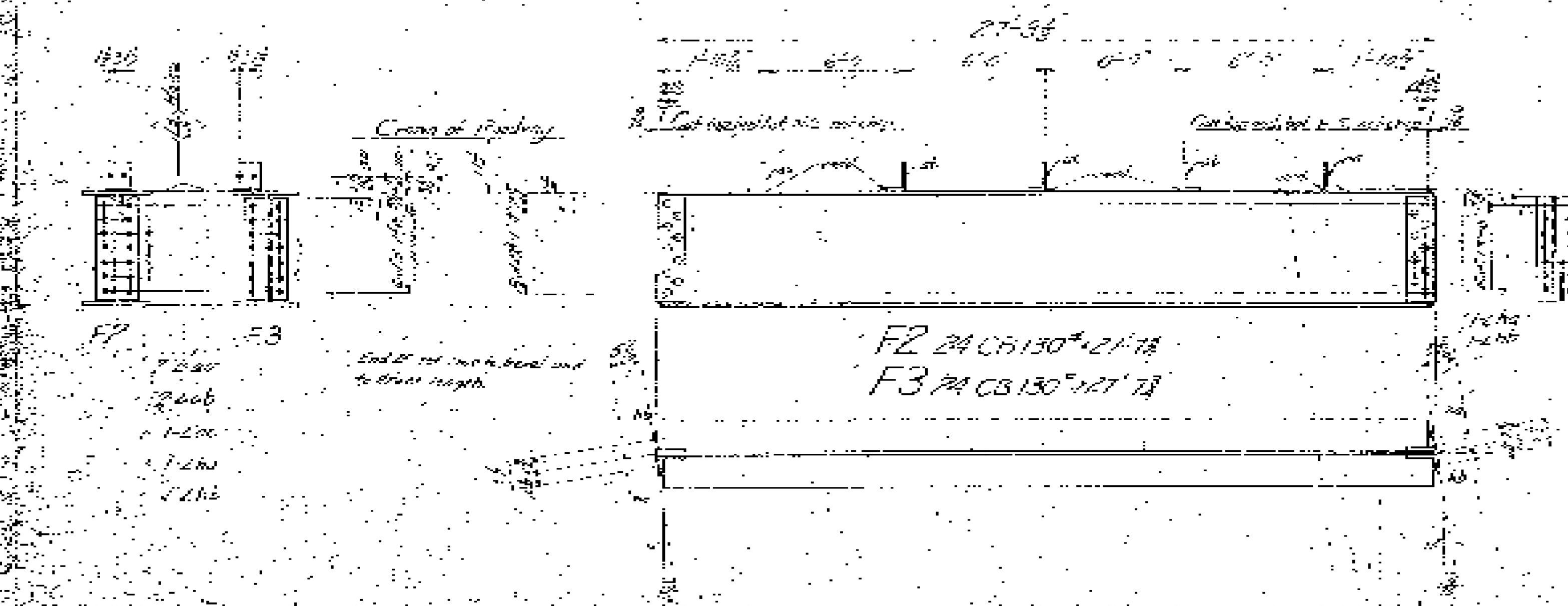
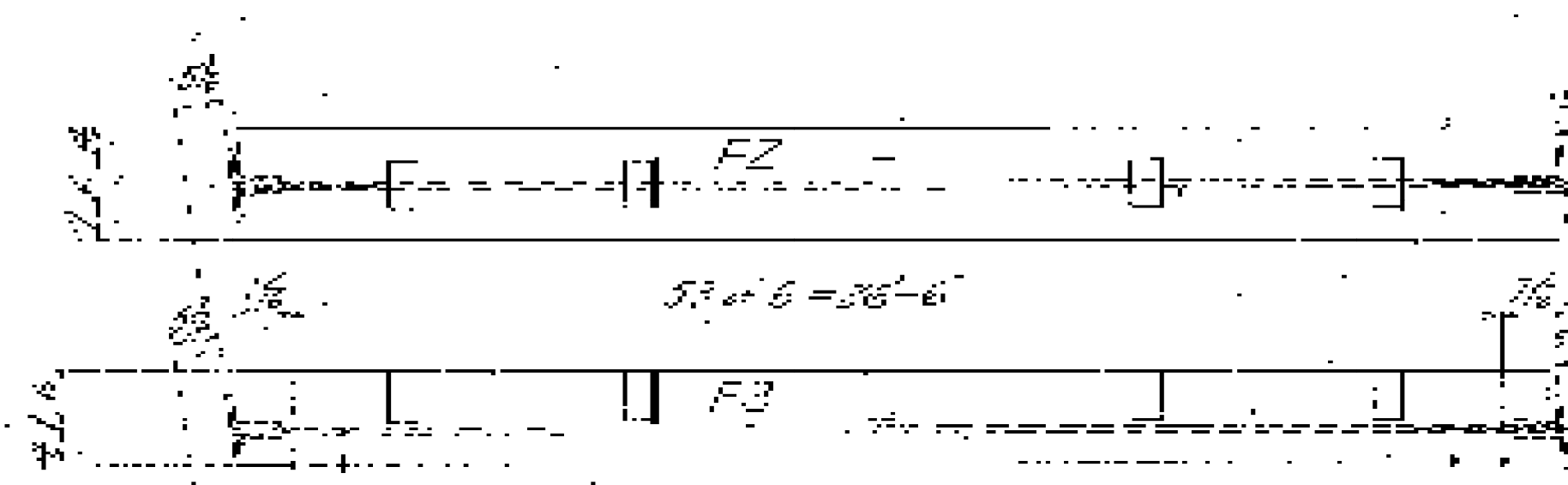
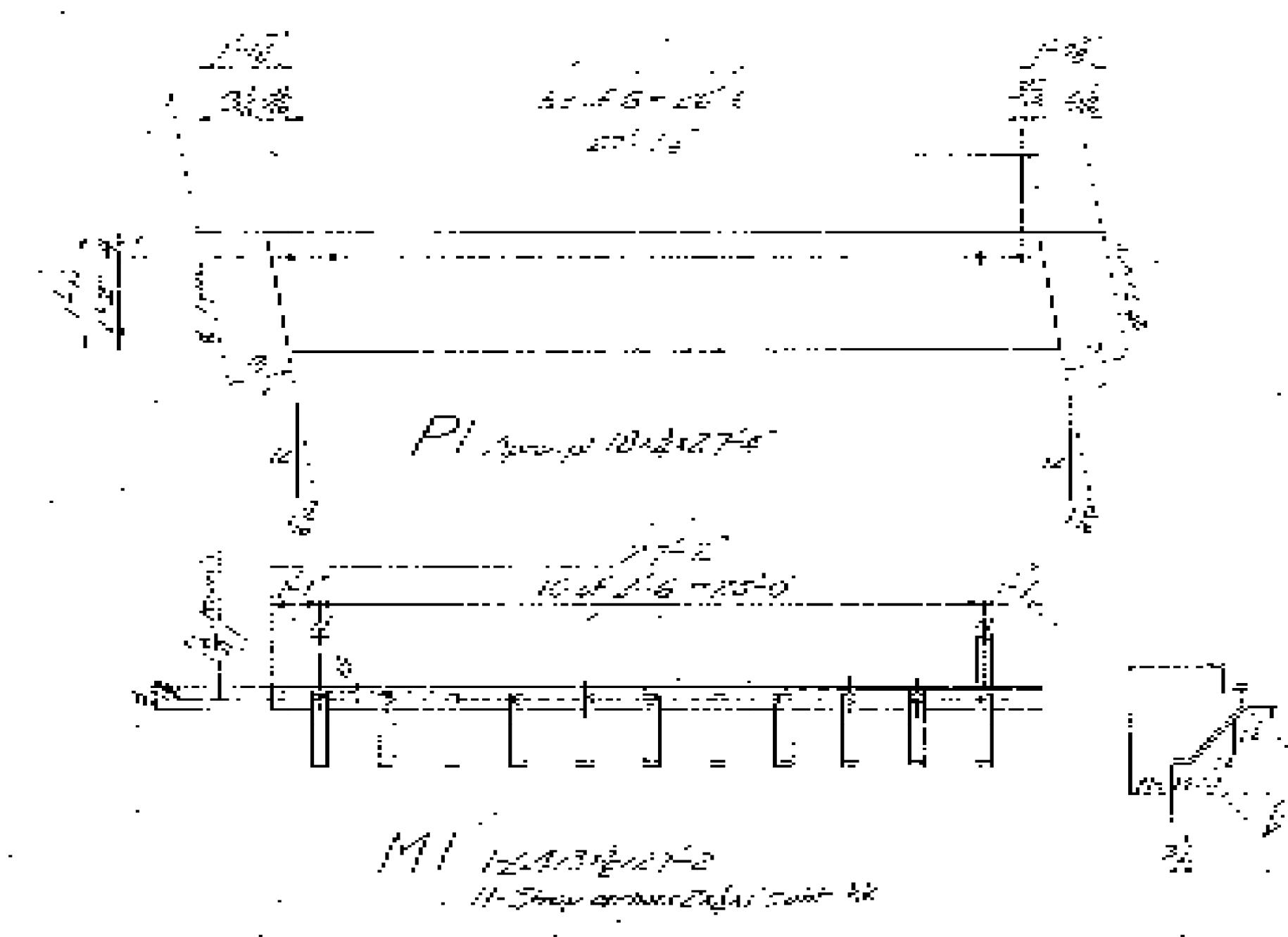
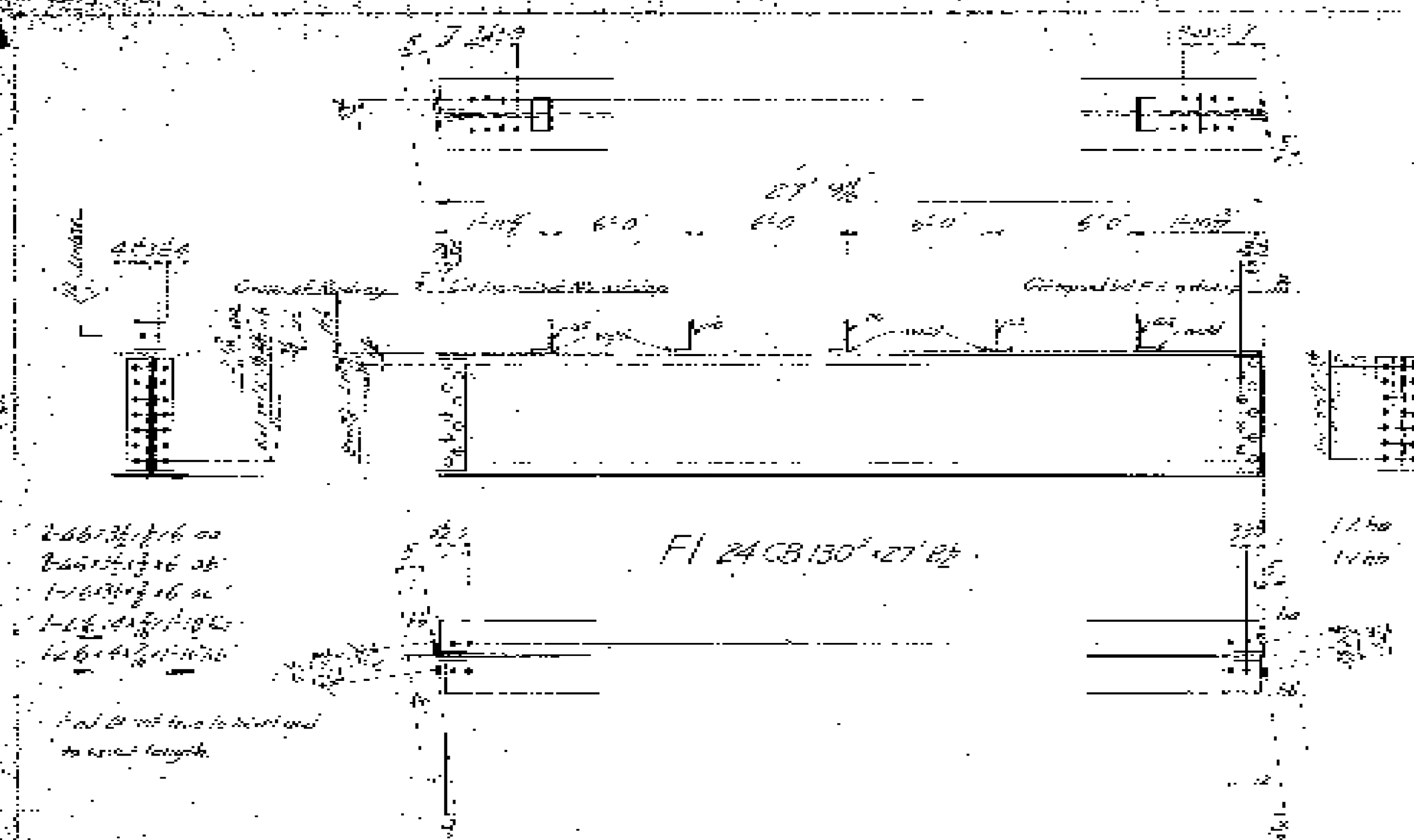
STATE OF VERMONT
LANDON ST BRIDGE
OVER WORCESTER R.
MONTPELIER, VERMONT

SIGWALK BROS. & CO., INC.

1. NAME _____
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 3. CITY _____
 4. STATE _____
 5. ZIP _____
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 215. PRINT DATE _____
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 219. PRINT CITY _____
 220. PRINT STATE _____

7323

NTS



REQUIRED		
7	INT. FLOOR BEAMS	F1
One	END FLOOR BEAM	F2
One		F3
One	APRON	P1
One	PIER	M1
One		M2
One		M3

NOTES

Spec - U.S. Department of Agriculture Bulletin 1259

Prots - from unless noted

Holes - 1/2" diam. unless noted

Strip Paint - one coat red lead and oil, except where noted "Hot Iron"

Clip angles on top of floor beams bent welded to flange

STATE OF VERMONT
LANGDON STREET BRIDGE
OVER WORCESTER BRANCH
MONTPELIER, VT.

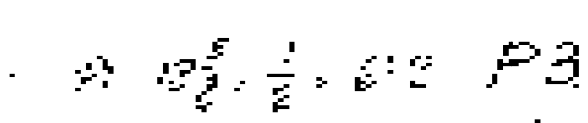
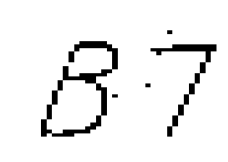
FLOOR BEAMS

Calculated by R. S. Young

Checked by R. S. Young

Drawn by R. S. Young

Scale 1" = 10'



REQUIRED	
3-Months Due	87
	88
	89
	90
Electric Account	92
	93

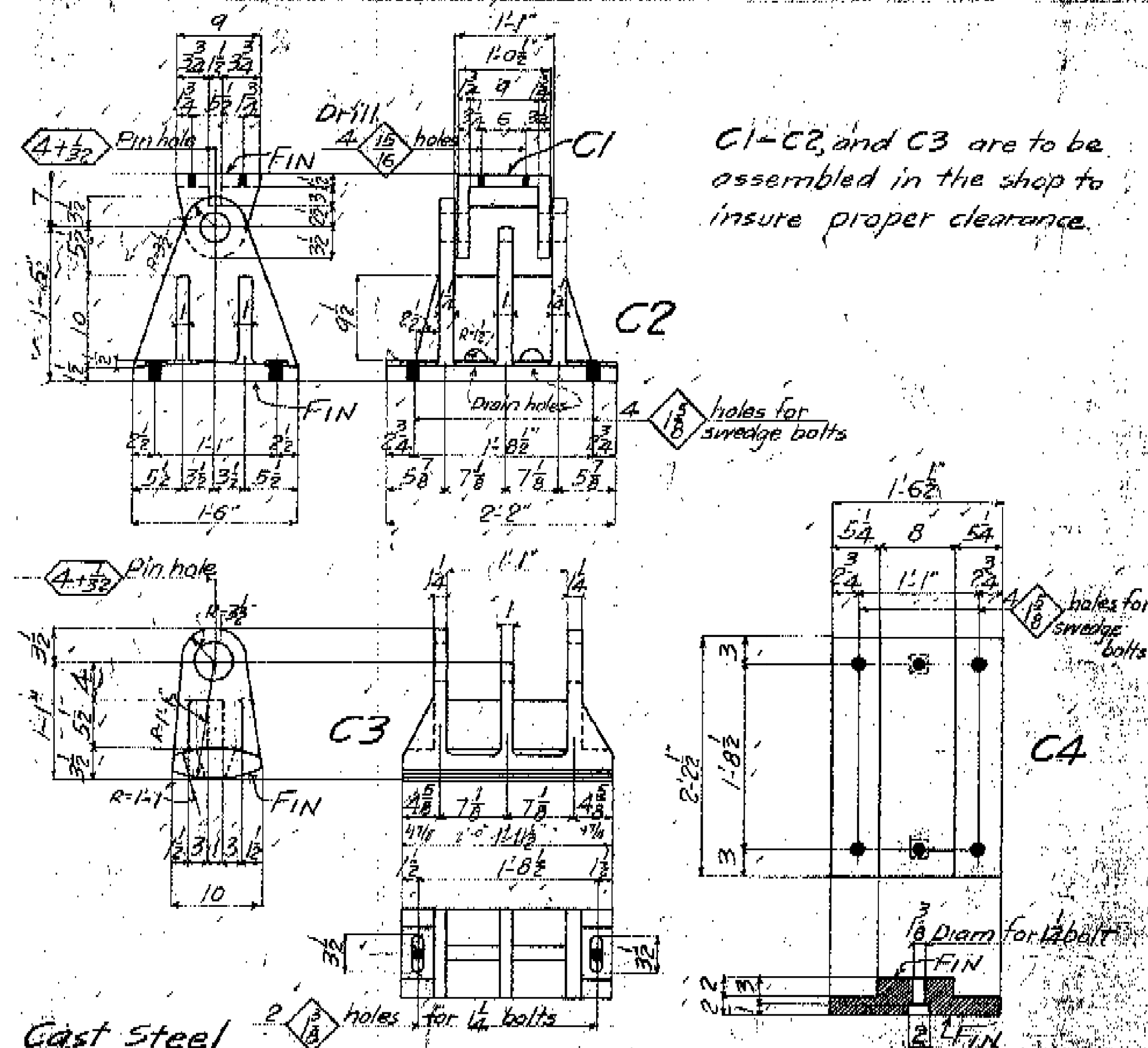
NOTES
SPECIES - N.S. Dept. of Agriculture Bull #1269
R.V.S. 8
COLLECT. 8
Ship Fair. one cost red food & oil.

STATE OF VERMONT
LANSLOW ST BRIDGE
OVER MONTPELIER BR.
MONTPELIER, VERMONT.

SIGMA Xi, Delta, & Epsilon:

[illegible]





LINE NO.	NO. POS.	MARK	DIAM. P	LENGTH L	SCREW	LENGTH B	NO. POS.	PATTERN NO.	CALCULATED WEIGHT FOR ONE MEMBER	NO. POS.	LENGTH L	ITEM	SHIPMENTS
1	4	X1	4	1 6 3/4	3 1/8	1 4	8	PN24				5	
2								Reg 5823					
3													
4													
5													
6													
7													
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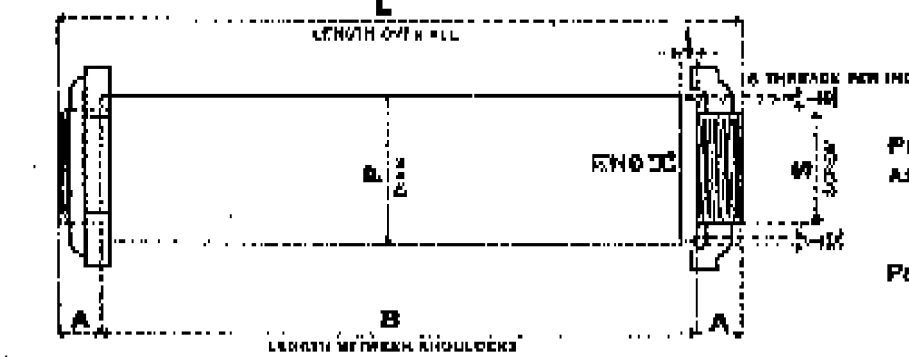
Castings C1-C2-C3 & C4 same as C1-C2-C3 & C4-F3039

Patterns Made By: H.B. Young Machine Shop

Castings Made By: H.B. Young Machine Shop

Castings: Finish surfaces with one coat white lead & tallow.

LANGDON STREET BRIDGE over WORCESTER BRANCH MONTPELIER VT.



FINISH ONE END OF ALL PINS AS PER SKETCH AND MARK END-30

PILOT NUT USED ON THIS END.

LINE NO.	NO. POS.	MARK	DIAM. P	LENGTH L	SCREW	LENGTH B	NO. POS.	PATTERN NO.	CALCULATED WEIGHT FOR ONE MEMBER	NO. POS.	LENGTH L	ITEM	SHIPMENTS
1	4	X1	4	1 6 3/4	3 1/8	1 4	8	PN24				5	
2								Reg 5823					
3													
4													
5													
6													
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LINE NO.	NO. POS.	DIAM. OF PIN P	LENGTH L	SCREW S	PATTERN NO.	ITEM	CALCULATED WEIGHT FOR ONE MEMBER	SHIPMENTS	NO. POS.	DIAM. OF PIN P	LENGTH L	SCREW S	PATTERN NO.	ITEM	CALCULATED WEIGHT FOR ONE MEMBER	SHIPMENTS
1	4	2 1/2	3	P516					1	4	5 1/4	3	P06			
2				Reg 5824									Reg 5824			
3																
4																
5																
6																
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24																

PIN AND NUTS

MATERIAL: O.H. Steel SPEC. U.S. Dept of Agric. ECM 7-21-28

PAINT: White lead & tallow

NAME OF STRUCTURE: LANGDON STREET BRIDGE over WORCESTER BRANCH-MONTPELIER VT.

DATE: 7-21-28

DRAWING: Elmira

ORDER NO. F3038

SHEET NO. C2

