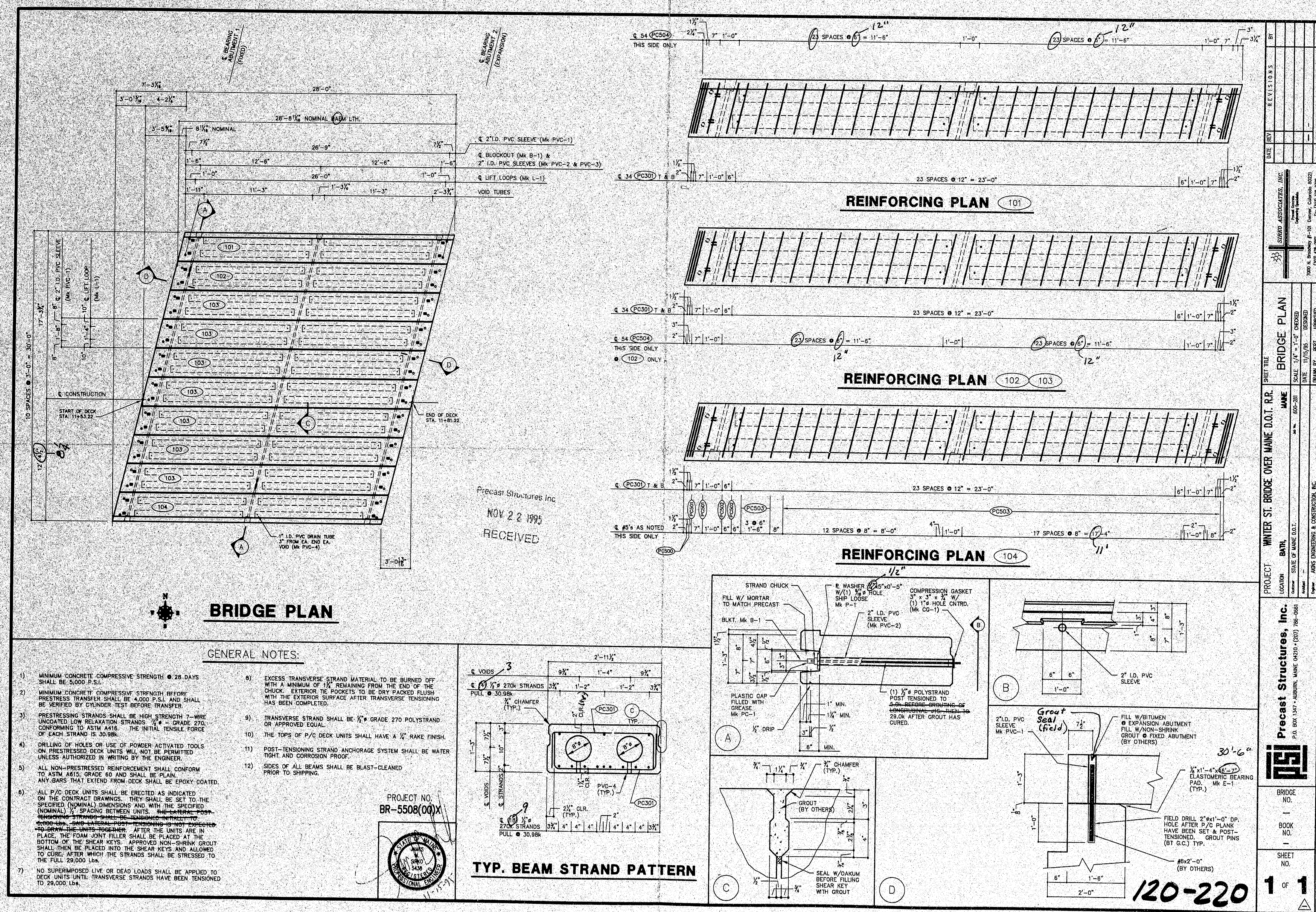
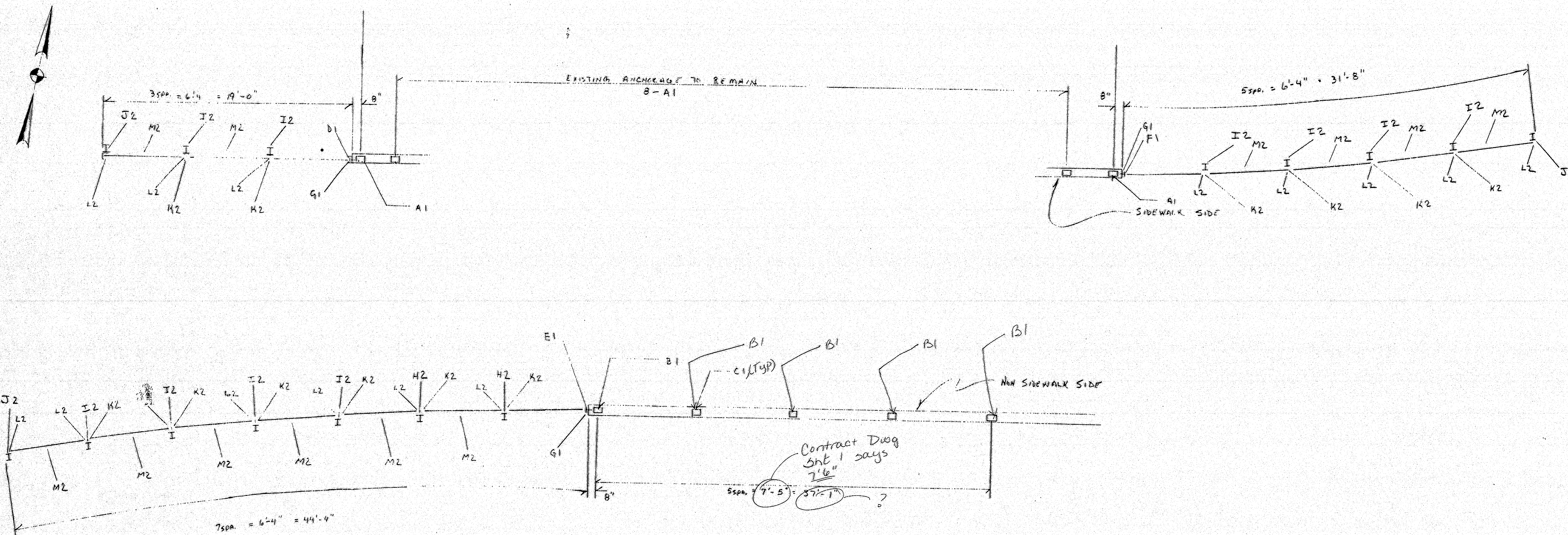






PLAN OF GARDEN

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☒ Returned for Corrections
SEP 14 1997
☒ Approved as noted ☐ Rejected

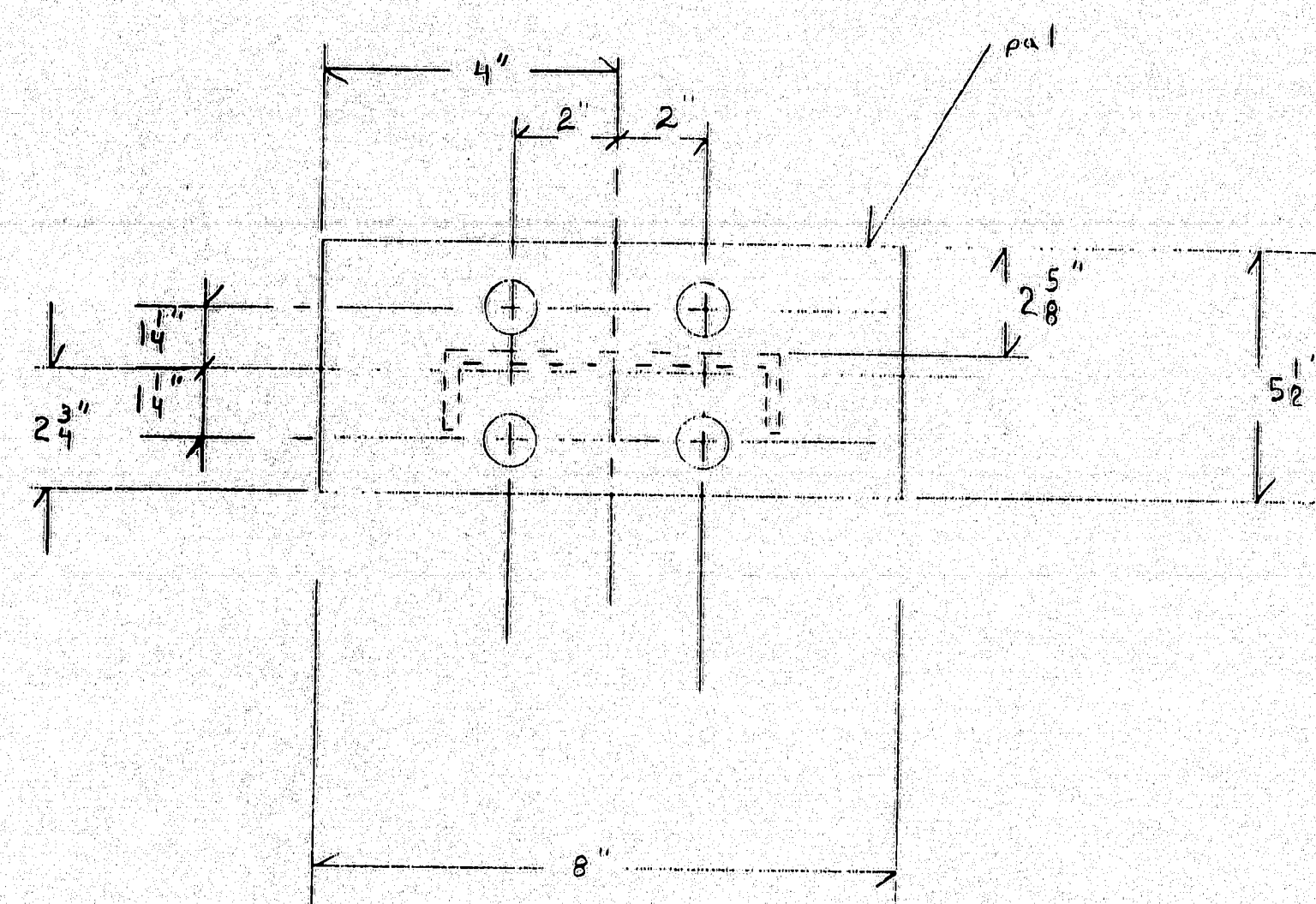
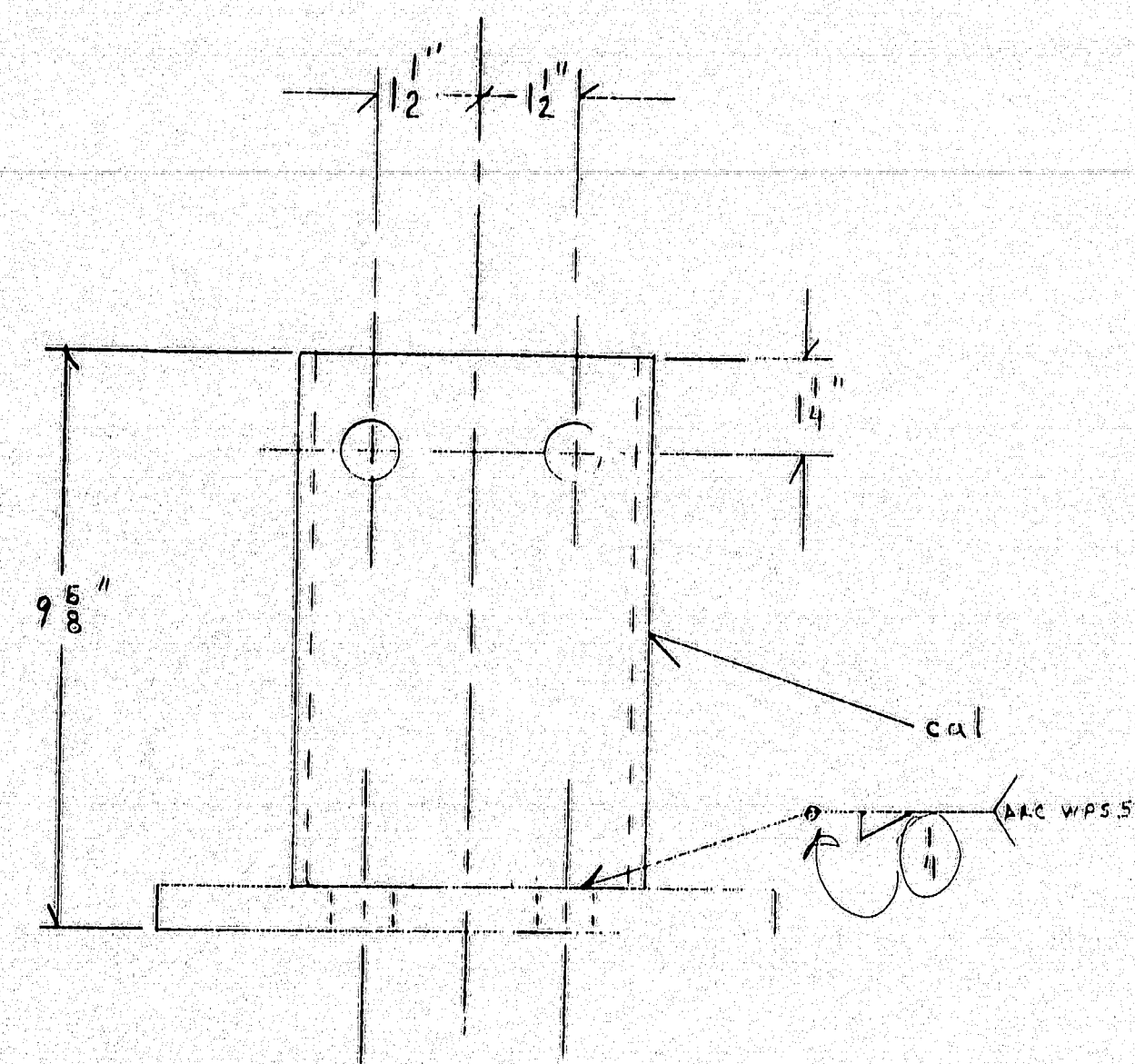
FOR APPROVAL
ONLY

PROJ. NO. BR-5508(00)X

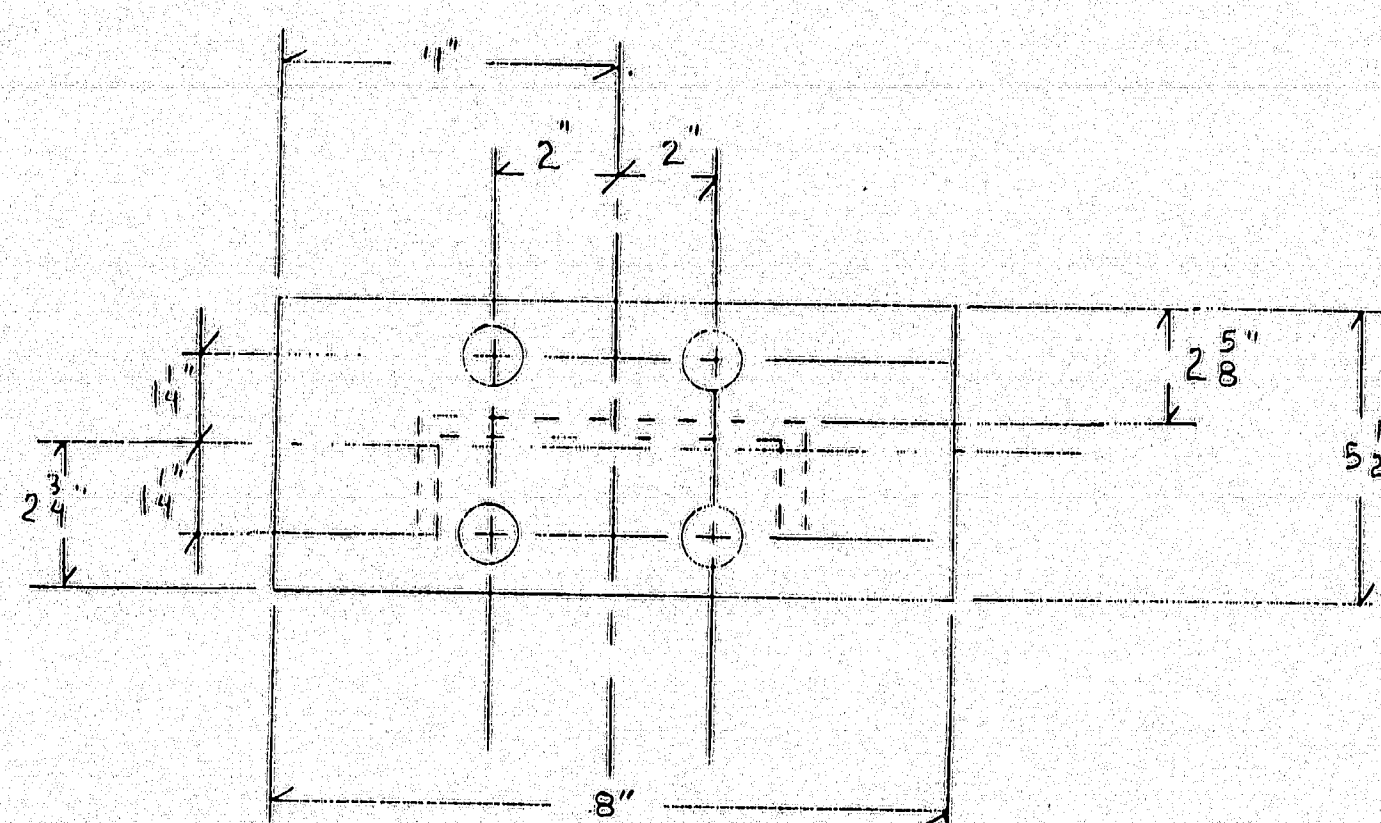
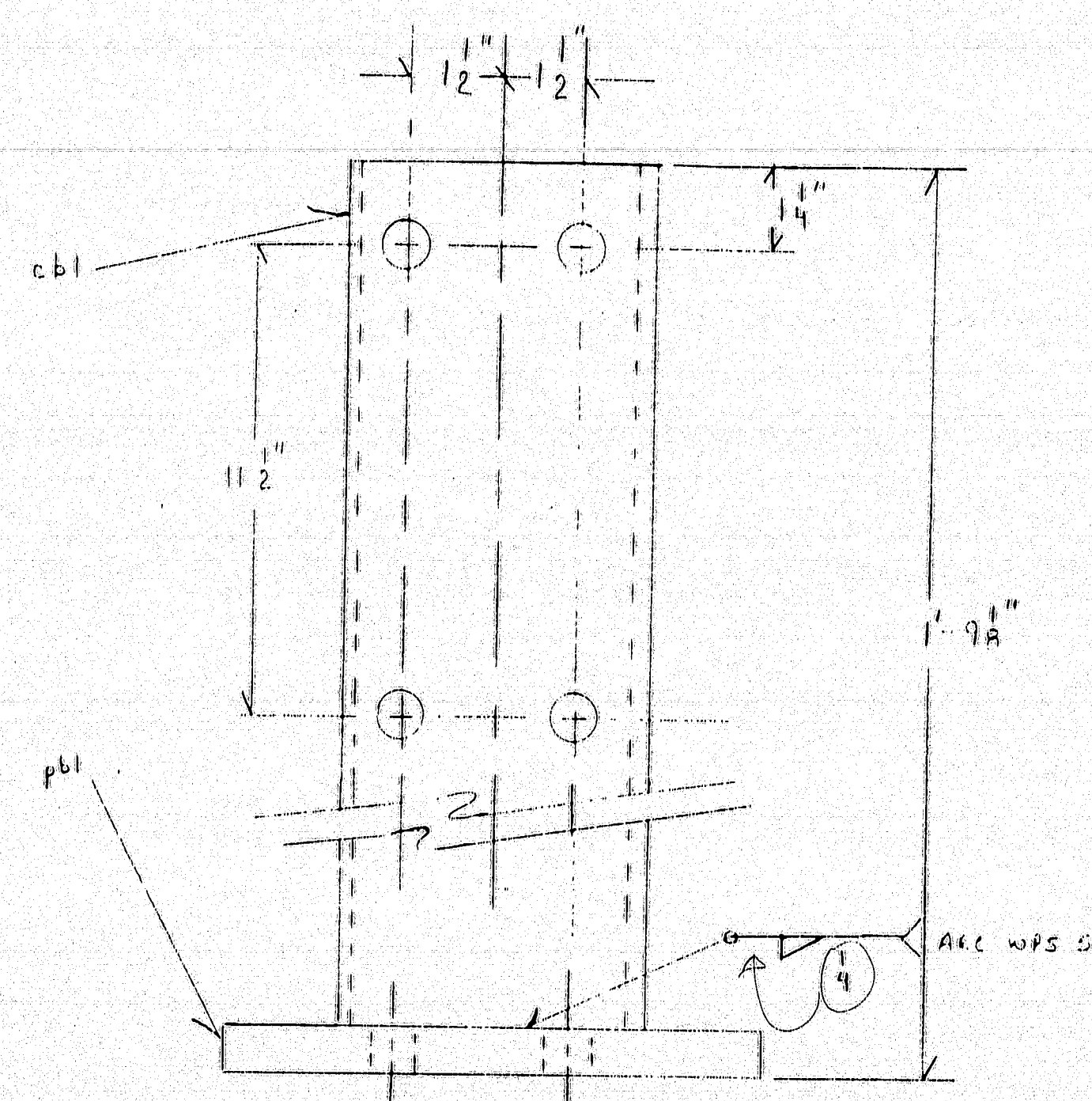


ADVANCED RESOURCES
& CONSTRUCTION
P.O. BOX 120 KINGFIELD, ME 04947
PHONE: (207) 265-2646 • FAX: (207) 265-4054

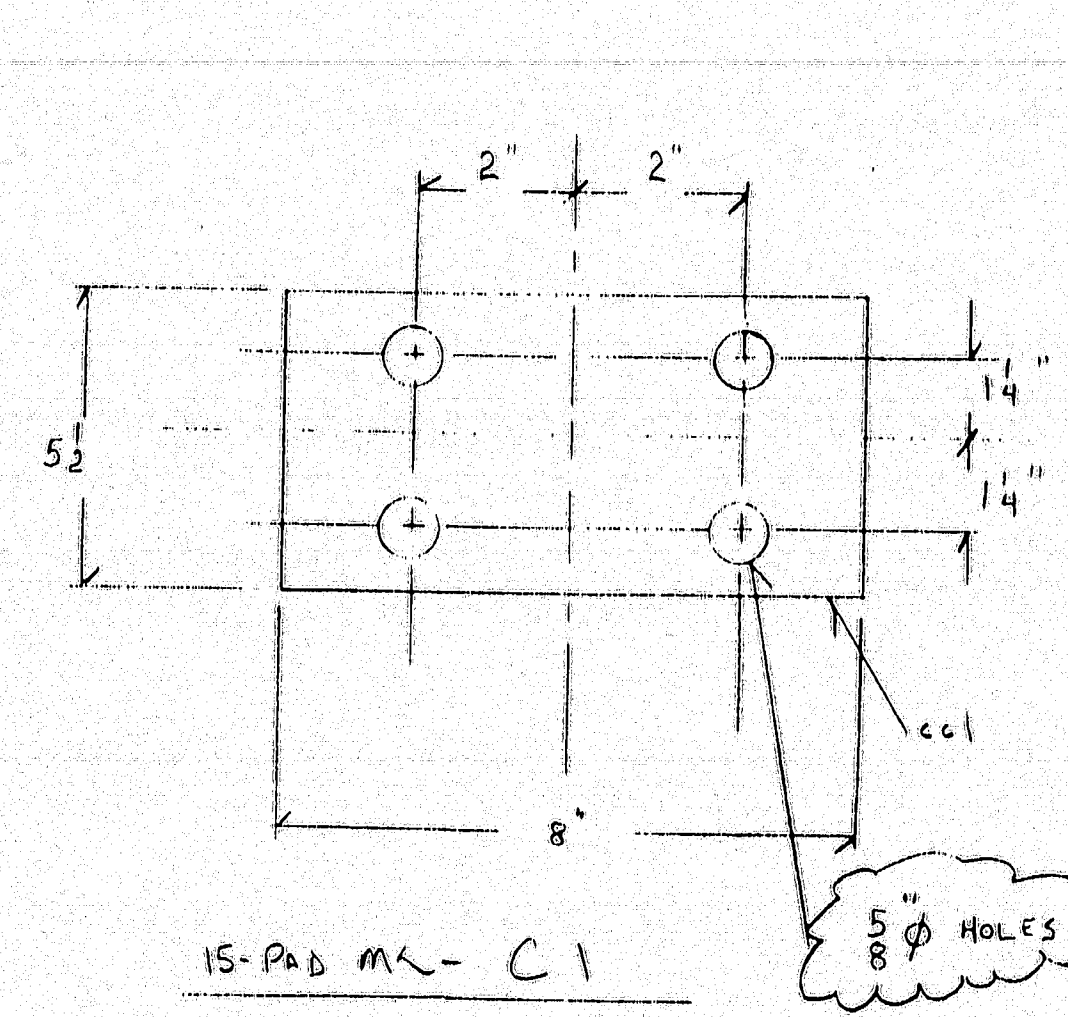
DESCRIPTION Timber Railing
PROJECT Winter St. Bridge Over Maine DOT Railroads
LOCATION BATH, MAINE SAGadahoc COUNTY
DESIGNER _____
CUSTOMER MAINE DEPT. OF TRANS.
DRAWN BY ARK/KND DATE 8-25-97 JOB NUMBER 77-76 DWG. NO. E1
CHK'D BY _____ DATE _____



10-Posts - MK - A1



5-Posts MK - B1



15-Post MK - C1

17. ME STD 507.03(Cb) add 1090 to allow leveling

FINISH NOTE:

- 1) NEW STEEL TO BE GALVANIZED W/ CORNERS BROKE
- 2) PREPARE FOR COLOR COATING EXCEPT SPACE PLATE
- 3) COLOR COATING SUCH AS COLOR GALV, ZET 1404 OR EQUIV. PROCESS & FOLLOW
- 4) COLOR COAT DOME HEAD BOLTS, HEAD & 1" OR SHORT
- 5) REMAINING WORKMAN TO BE FIELD COLOR COATED TO ALL PROPOSED PARTS

What do you intend to use?

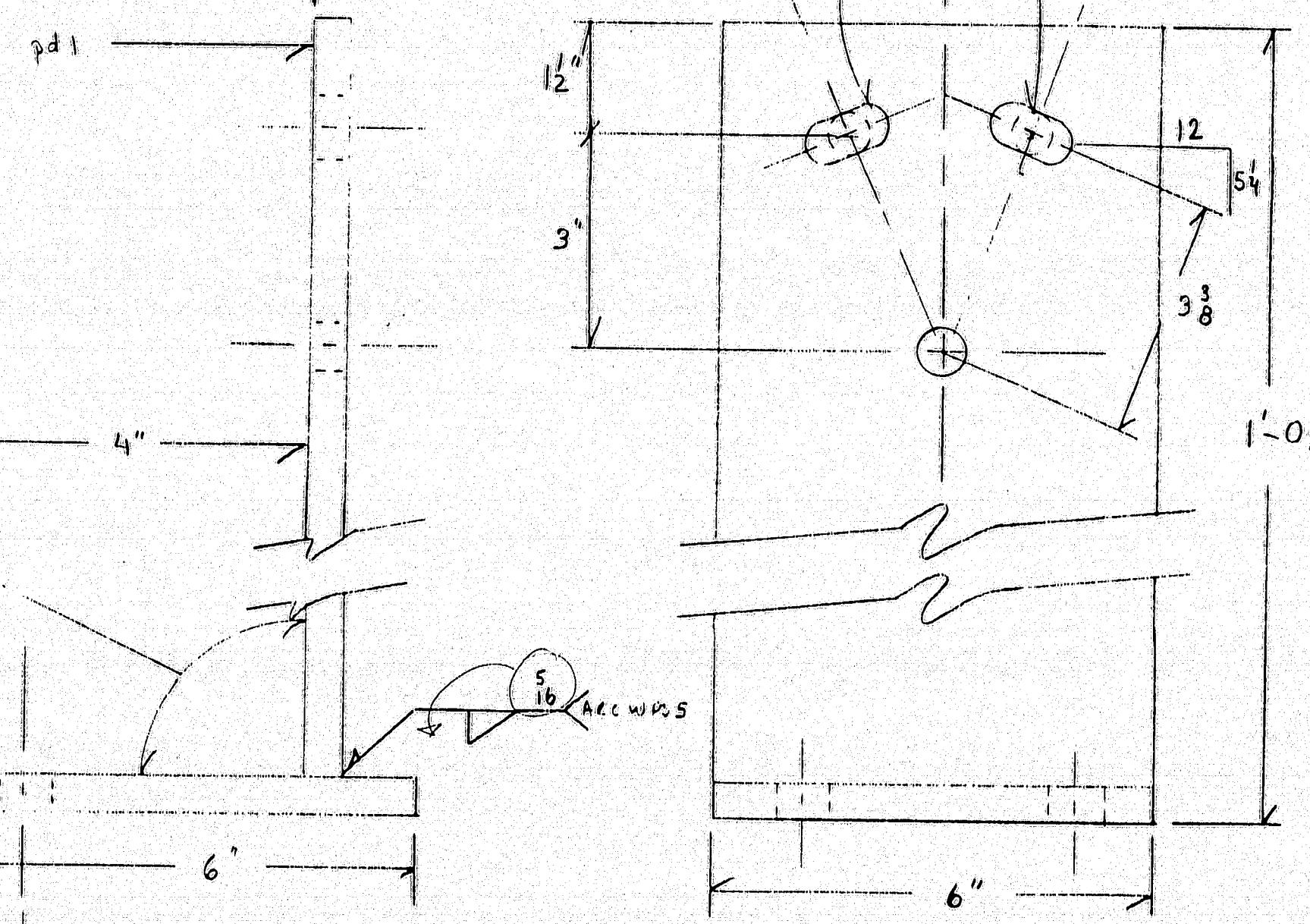
Hardware also galvanized ASTM A153

Use 9/16" and get 92° - 41"

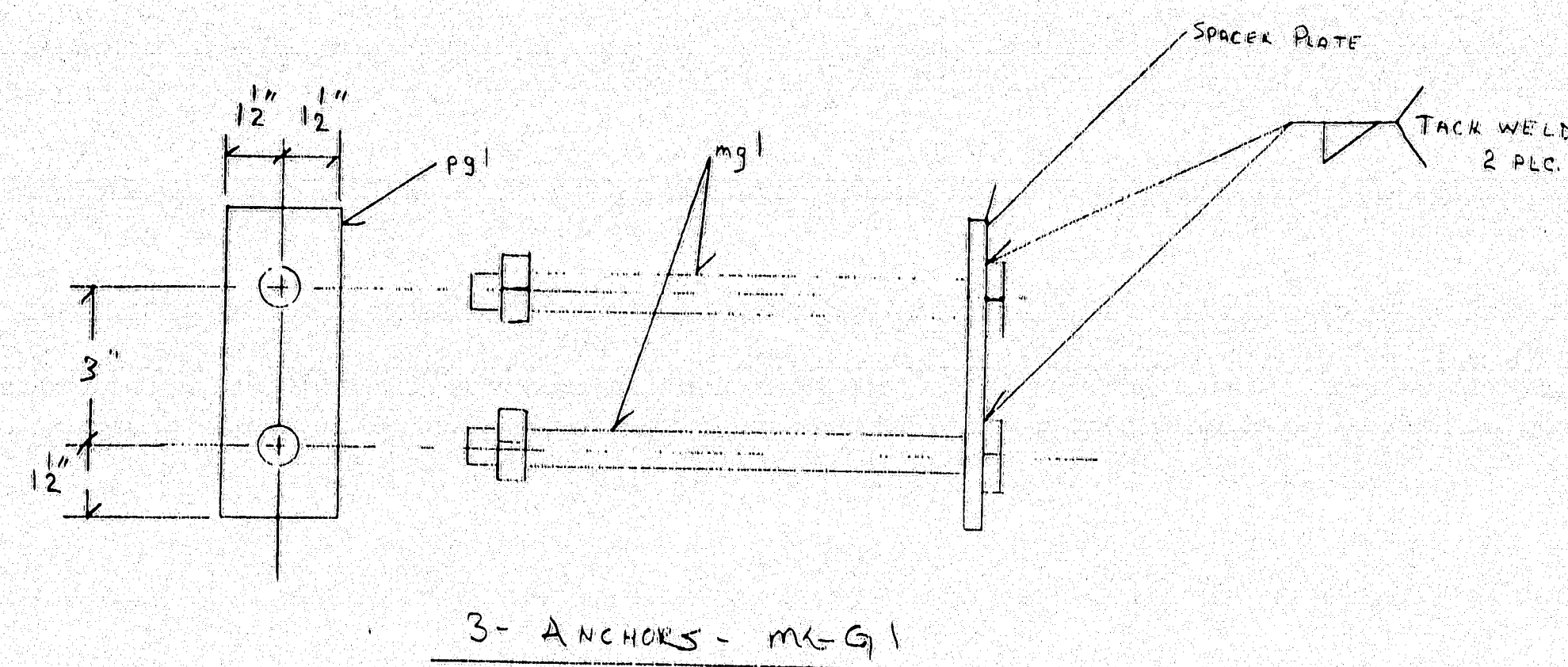
Use 1/4" and get 91° - 11"

3/4" x 1/2" SLOTS

This color is brown



Use 1/4" 2 Use 9/16"



3-ANCHORS - MK-G1

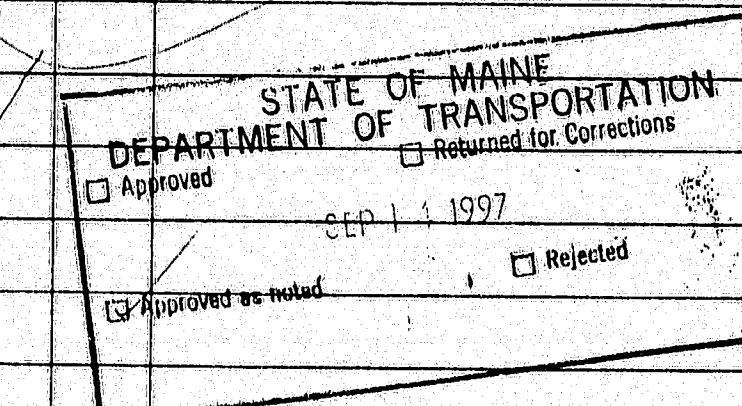
APPROVE NOTE: Please verify position of anchor

- 1-ANCHOR PLATE - MK-D1
- 1-ANCHOR PLATE - MK-E1
- 1-ANCHOR PLATE - MK-F1

BILL OF MATERIALS

SHIPPING MARK	SHOP MARK	QTY.	DESCRIPTION
A1		10	1-RAIL POST
pal		10	2 1/2 x 8 x 5 1/2"
cal		10	C 7 x 9.8 x 9 3/8"
B1		5	2-RAIL POST
pbl		5	2 1/2 x 8 x 5 1/2"
cb1		5	C 7 x 9.8 x 9 3/8"
C1		15	PAD
cc1		15	2 1/2 x 8 x 5 1/2"
D1, E1, F1		15	ANCHOR PLATE
pd1		3	2 1/2 x 6 x 1'-0"
md1		3	2 1/2 x 6 x 6"
G1		3	ANCHORS
mg1		6	1" x 10" BOLT W/ WASHER & NUT
pg1		3	4 x 3 x 6" SPACE PLATE

Contractor to select Drill & Grout system of 11st. Min. embedment: 8"



FIELD BOLTS - THIS SHEET

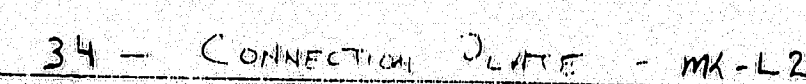
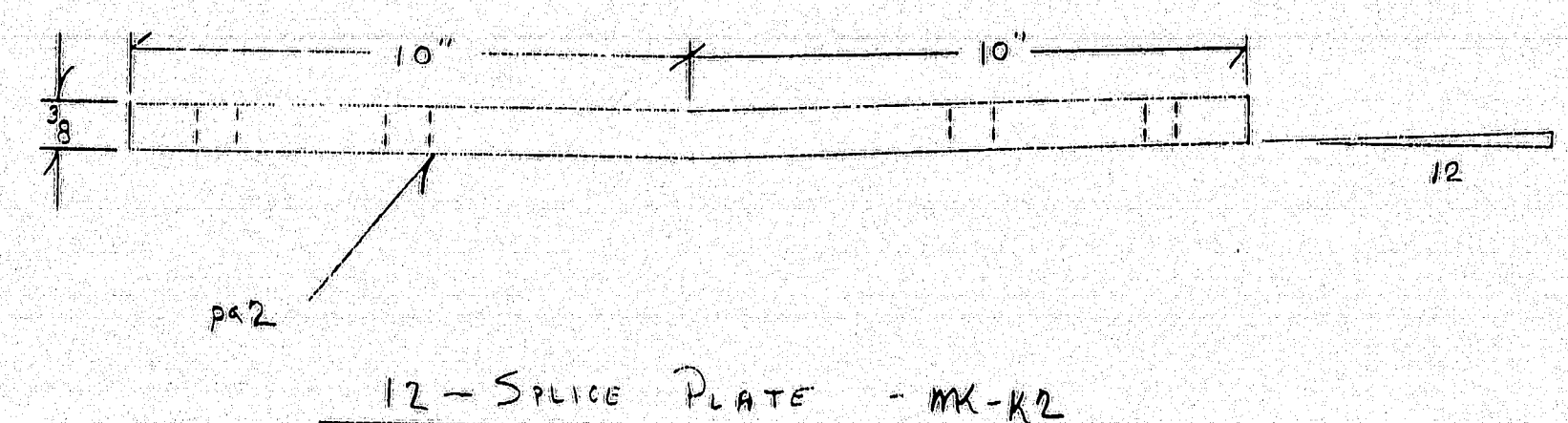
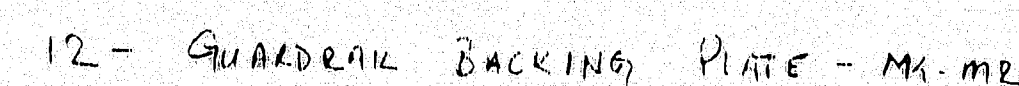
- ASTM A 449 GALV.
- 45 3/8" x 4" DOME HEAD BOLT W/ WASHER & NUT
- 30 3/8" x 10" TYPE 11 ANCHOR W/ WASHER & NUT

MATL: ASTM A 709 GRADE 86 HOLES: 11/16" UNLESS NOTED OTHERWISE
WELD: PER WELD PROCEDURE
SURFACE PREP: SEE NOTE
FINISH: SEE NOTE

120-222 FOR APPROVAL ONLY

ARC ENTERPRISES, INC. ADVANCED RESOURCES & CONSTRUCTION
P.O. BOX 120 KINGFIELD, ME 04947
PHONE: (207) 265-2646 • FAX: (207) 265-4054

DESCRIPTION Timber Railing
PROJECT WINTER SUN BRIDGE OVER MAINE DOT ROAD
LOCATION BATH, MAINE SAGadahoc COUNTY
DESIGNER
CUSTOMER MAINE DEPT. OF TRANS.
DRAWN BY DATE 8-25-92 JOB NUMBER 97-76 DWG. NO. 1
CHK'D BY DATE



Hardware
also galvanized
ASTM A153

- 1) NEW STEEL TO BE GALVANIZED W/ COLUMBS BROOK; ASTM A 123
- 2) PREPARED FOR COLOR COATING
- 3) COLOR COATING SUCH AS COLOR GALV, COLOR METAL OR EQUIVALENT PROCESS & COLOR
- 4) COLOR COAT. SOME HEAD BOLTS, HEAD & 1" OF SHANK
- 5) REMAINING HARDWARE TO BE FIELD COLOR COATED TO ALL EXPOSED SURFACES

What do you intend to use? Colorgate? or Equivalent? If equiv., what?

RECEIVED
SEP 5 1997
WYMAN & SIMPSON INC

MAT'L: ASTM A709 GRADE 36
M2 1/2 - ASTM A709 GRADE 50 HOLES: 11 Ø
WELD: NONE
SURFACE PREP: SEE NOTE
FINISH: SEE NOTE
120-
SEE APPROVAL

120-223

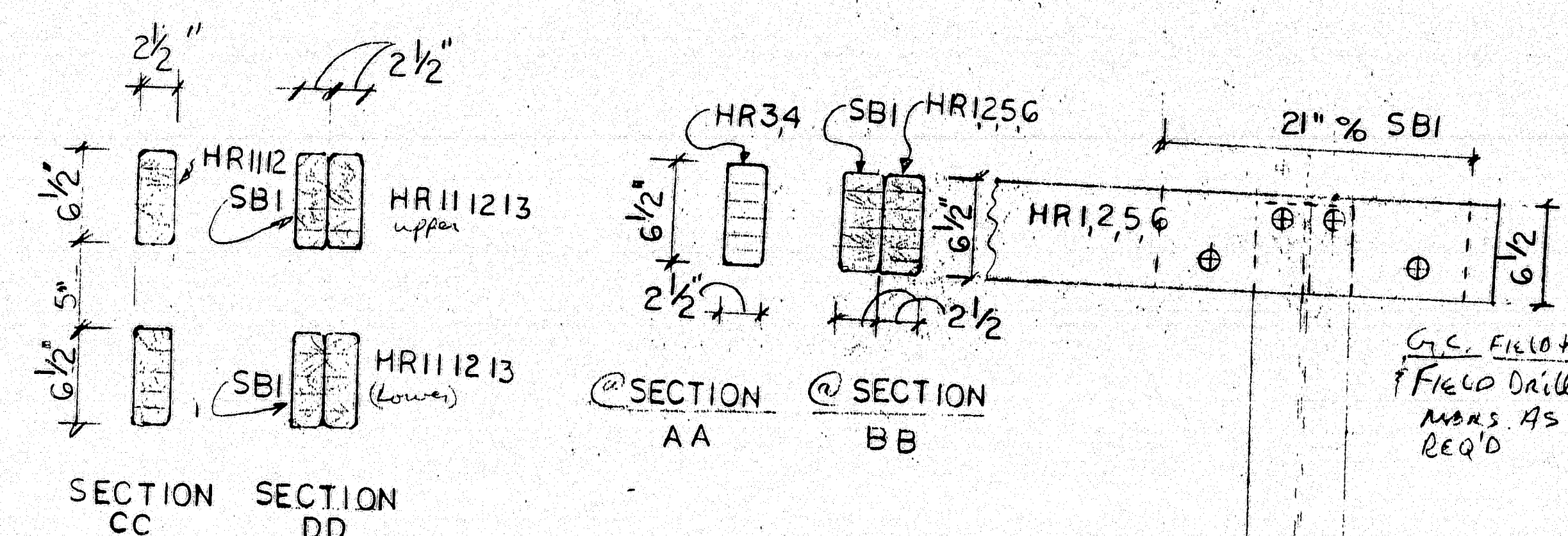
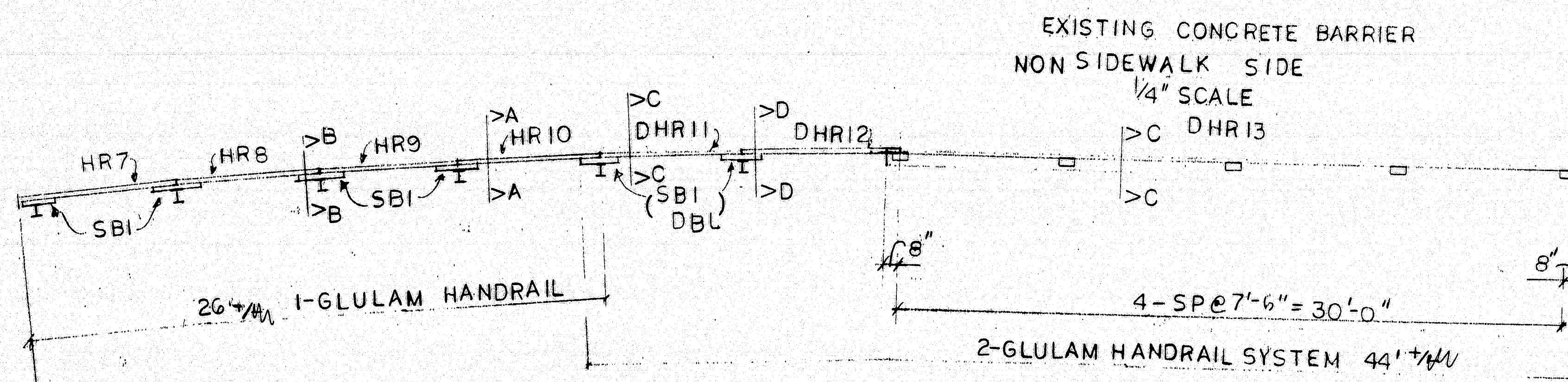
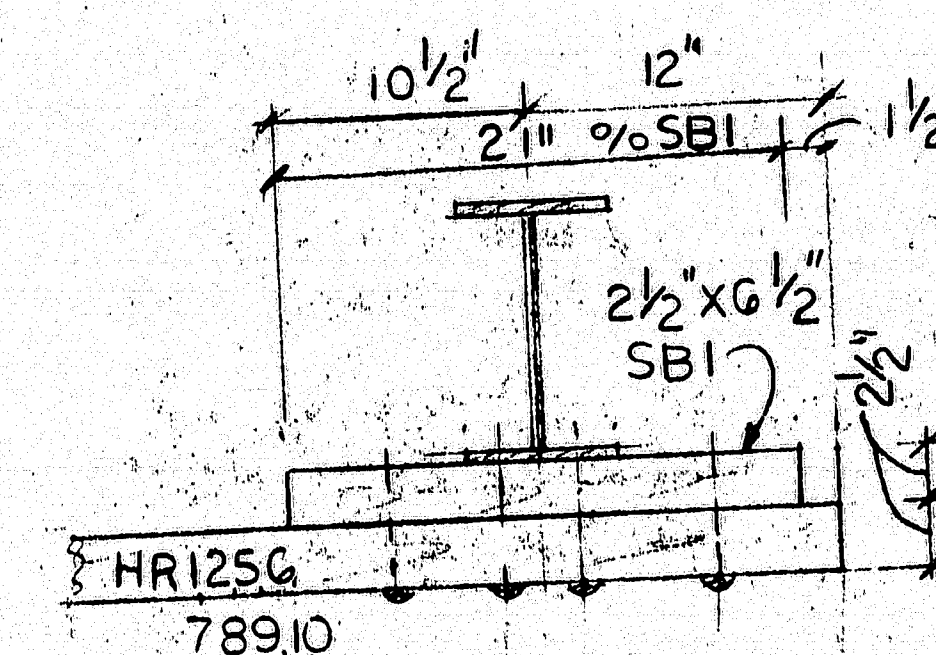
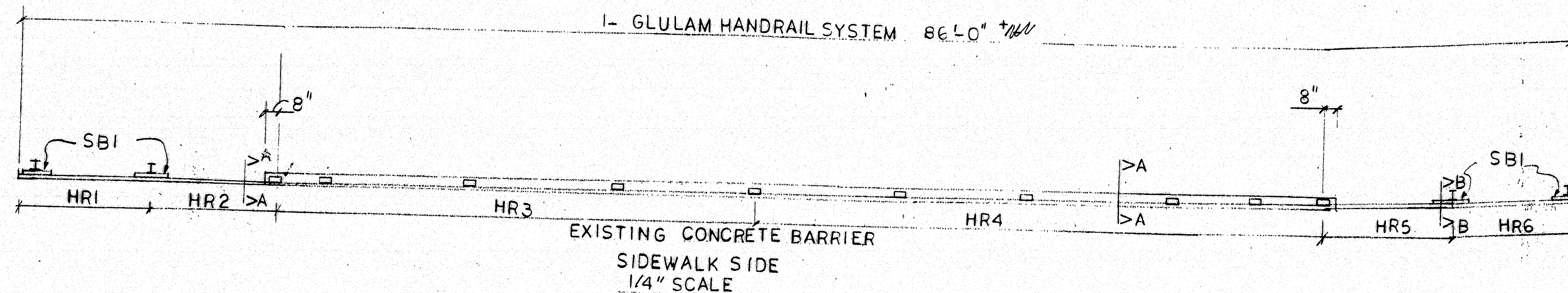
FOR APPROVAL
ONLY



**ADVANCED RESOURCES
& CONSTRUCTION**
P.O. BOX 120 KINGFIELD, ME 04947
PHONE: (207) 265-2646 • FAX: (207) 265-4054

DESCRIPTION TIMBER RAILING
PROJECT WINTER ST. BRIDGE OVER MAINE NO. 1 RAILROAD
LOCATION BATH, MAINE SAGadahoc COUNTY
DESIGNER _____
CUSTOMER MAINE DEPT. OF TRANS.

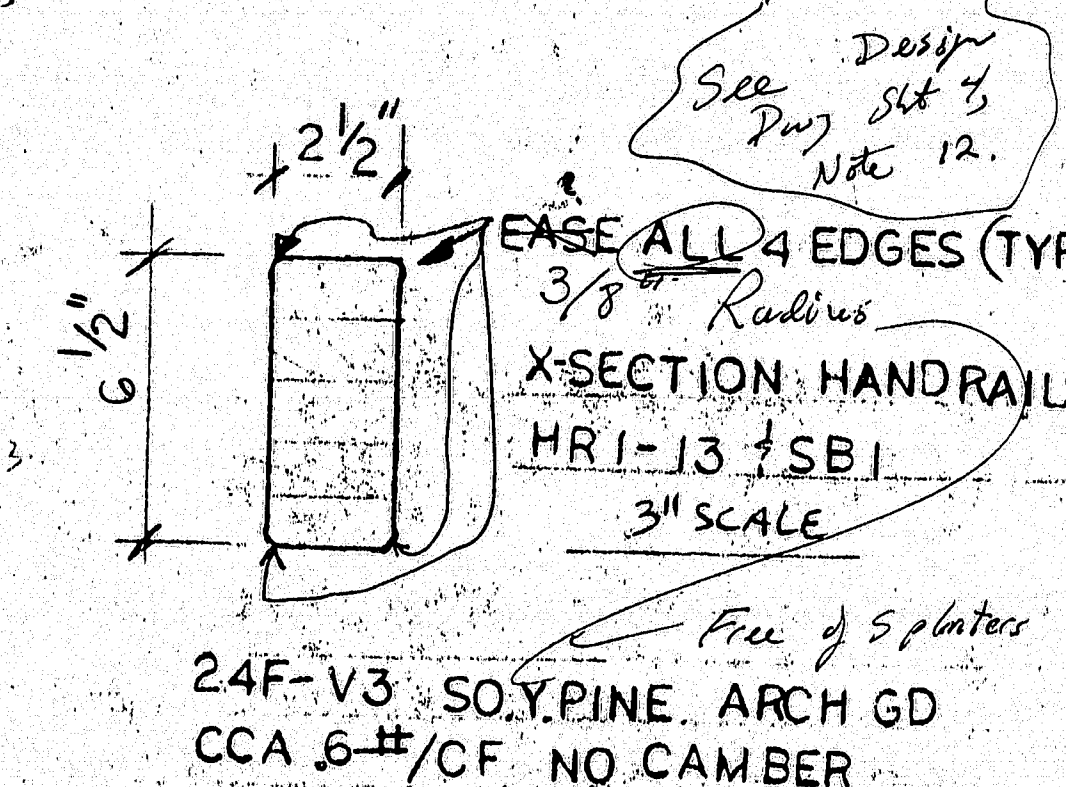
DRAWN BY <u>ANJELIUS</u>	DATE <u>8-25-92</u>	JOB NUMBER _____	DWG. NO. _____
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QTY	MARK	SIZE	ROUGH LGTH	LF
12	SBI	2 1/2 x 6 1/2	1'-9"	22'
1	HR1		8'-0"	8'
1	HR2		7'-0"	7'
1	HR3		27'-0"	27'
1	HR4		32'-0"	32'
1	HR5		7'-6"	8'
1	HR6		8'-0"	8'
1	HR7		8'-0"	8'
1	HR8		7'-0"	7'
1	HR9		7'-0"	7'
1	HR10		7'-0"	7'
1	HR11		7'-0"	14'
2	HR12		8'-0"	16'
2	HR13		32'-0"	64'

Each handrail length
shall be attached to
a minimum of
three posts.
See Note 13 of
Set 4 & 4 Det. Day.
Combine some
lengths?

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Approved for Construction
SEP 19 1997
Approved as noted



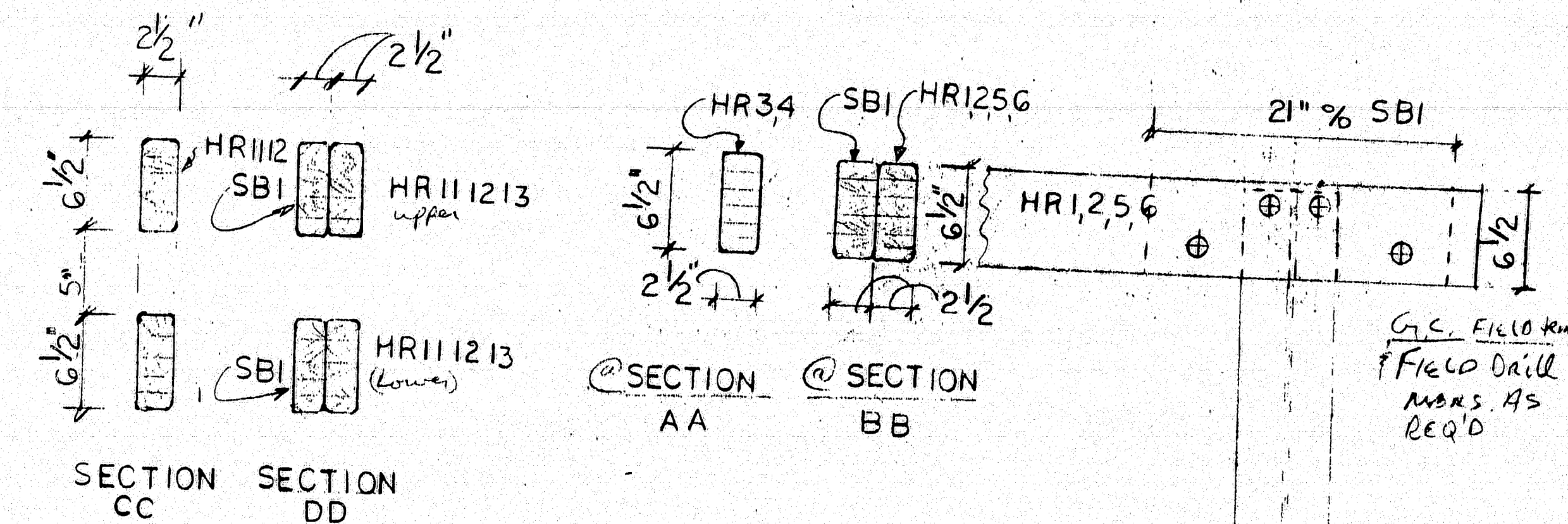
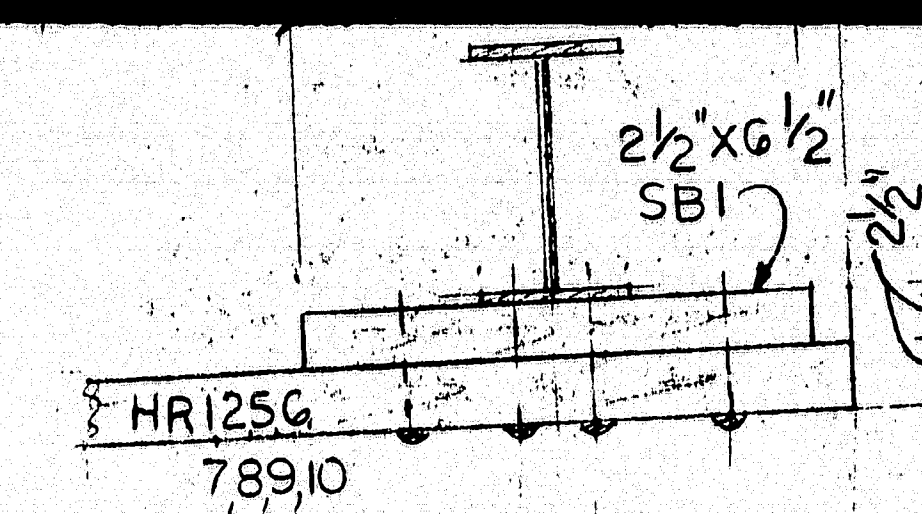
APPROVAL COPY
NOT FOR CONSTRUCTION

24F-V3 SO. Y. PINE ARCH GD
CCA 6-# OF NO CAMBER
LAMINATED WOOD DESIGN
P.O. Box 235 Yarmouth Me. 04098
207-846-5580 (office/fax)

TOLERANCES	REVISIONS
DECIMAL	NO DATE BY
FRACTIONAL	
ANGULAR	

120-224

SEP 08 1997



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☒ Returned for Corrections
SEP 19 1997
☐ Approved as noted ☒ Rejected

Each strand length
should be attached to
a Minimum of
Three posts.

See Note 13 of
Sat 4 of 4 Dos. Day

Combine some
lengths 2.

24F-V3 SOY PINE ARCH GD
CCA 6# / CF NO CAMBER

LAMINATED WOOD DESIGN
 Bernard A. Janarelli P.E.
 P.O. Box 235 Yarmouth Me. 04098
 207-848-5580 [office/fax]

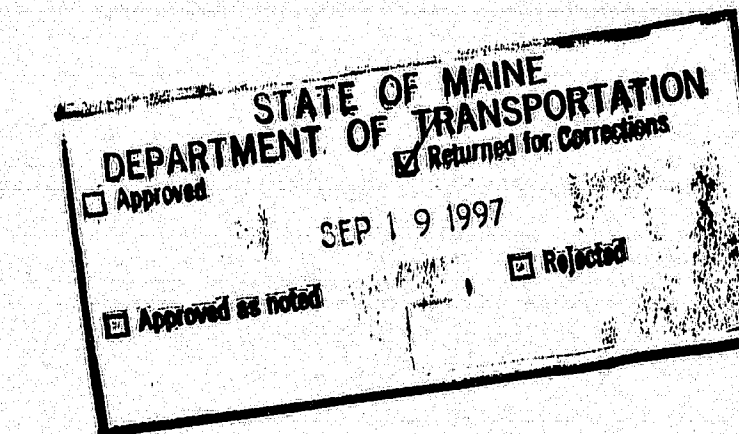
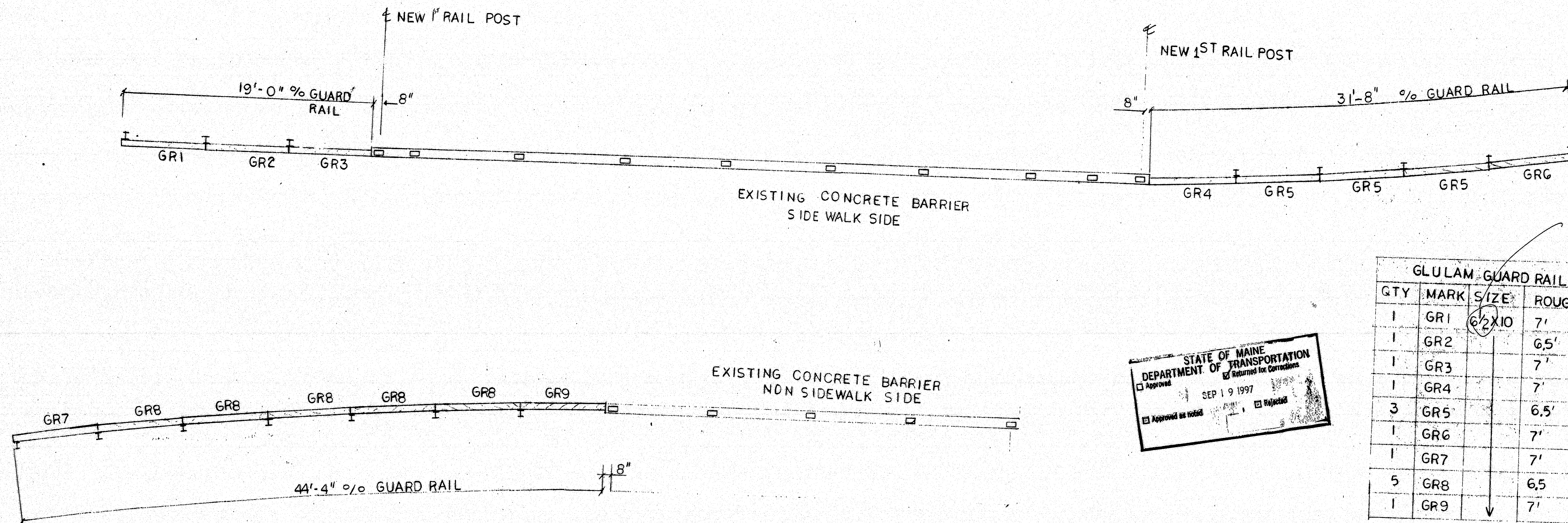
APPROVAL COPY
NOT FOR CONSTRUCTION

GLULAM TIMBER HANDRAIL

TOLERANCES (UNLESS OTHERWISE NOTED)		REVISIONS			WINTER ST. BRIDGE BATH, MAINE			
	NO.	DATE	BY					
DECIMAL	1							
FRACTIONAL	2							
ANGULAR	3							
	4							
	5							

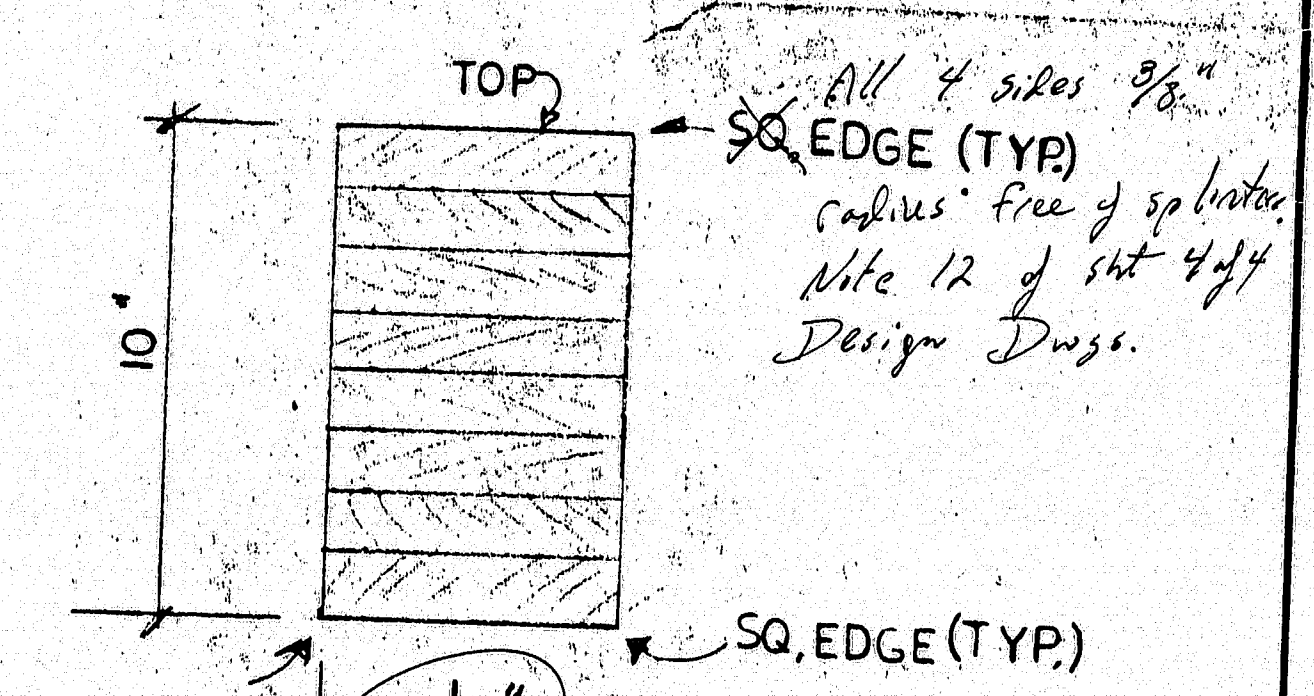
DRAWN BY	SCALE	MATERIAL
CRS	1/4" = 1'-0"	
CHK'D	DATE	DRAWING NO.
MC	9/6/59	212
APP'D		

[illegible][illegible]



GLULAM GUARD RAIL MBRS # BSW				
QTY	MARK	SIZE	ROUGH LGTH	LF
1	GR1	6 1/2 X 10	7'	7'
1	GR2		6.5'	7'
1	GR3		7'	7'
1	GR4		7'	7'
3	GR5		6.5'	20'
1	GR6		7'	7'
1	GR7		7'	7'
5	GR8		6.5'	33'
1	GR9		7'	7'

GC FIELD TRIM ENDS & DRILL HOLES



X-SECTION GUARD RAILS GR1-9
24F-V3 SQ.Y. PINE, ARCH. GD.
CCA 6 #/CF, NO CAMBER.

*See Notes 12 & 13
Design Draw.*

*Timber Hardware shall be cut to
and holes drilled to fit in the field.*

*8" x 10" Guardrail Timber shall be dressed
prior and preshielded before treatment.*

*See Note 11
or sub 4 of
Design Draw.*

*Applied in accordance
with requirements of
ASTM A 133.
Timber to be field
to a moisture content
of 19% or less
after treatment.*

*Field cuts & holes shall
be treated with two heavy
coats of Chromated Copper Arsenate
applied with a brush or
spray. See Note 13 sub 4 of
Design Draw.*

SPECIFICATIONS

KILN DRIED-SOUTHERN YELLOW PINE
ADHESIVE-WATERPROOF GLUE (WET-USE)
A.I.T.C. GRADE - ARCHITECTURAL

WRAP (HR 1-13 only)
ONE COAT THOMPSON'S WATERSEAL
CCA TREATED .60 #/CF PRIOR TO GLUING

HARDWARE-PER DETAILS & LIST
ALL STEEL A-36
ALL BOLTS A-307
ELECTRODES E70XX OR E70XX N/A
HOT-DIPPED GALVANIZED
ALL WELDS 3/16" FILLET

LAMINATED WOOD SHALL BE PROTECTED FROM
DIRECT CONTACT WITH CONCRETE OR MASONRY
BY A WATERPROOF BARRIER PROVIDED AND
INSTALLED BY OTHERS. (NIC)

(NIC)=NOT IN CONTRACT

CORRECTION OF MINOR MISFITS AND A REA-
SONABLE AMOUNT OF CUTTING, REAMING, RE-
DRILLING OR ALIGNMENT WITH DRIFT PINS
WILL BE CONSIDERED A LEGITIMATE EXPENSE
OF ERECTION.

IN THE EVENT OF ERROR, DEFECT IN MAT-
ERIALS AND/OR WORKMANSHIP OF SHOPWORK
WHICH PREVENTS THE PROPER ASSEMBLING
AND FITTING OF PARTS BY THE MODERATE
USE OF DRIFT PINS OR MODERATE AMOUNT
OF REAMING AND SLIGHT CUTTING, IMMEDIATELY
REPORT TO THE SELLER AND OBTAIN SELLER'S
APPROVAL AND METHOD OF CORRECTION.

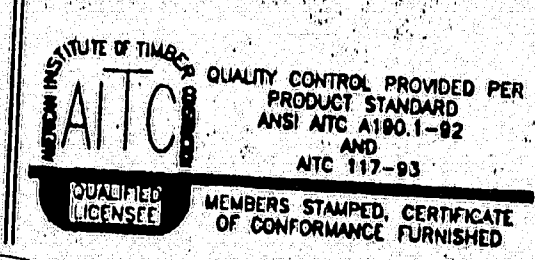
LATERAL SUPPORT TO BE PROVIDED FOR BY
OTHERS. (NIC)

WE ASSUME ALL LAMINATED MATERIAL IS PRO-
TECTED FROM EXTERIOR EXPOSURE TO THE
ELEMENTS.

ALL CCA-TREATED SURFACES, SAWN AFTER
GLUING, ARE TO BE RETREATED, PER ANPA-M.
ALL CCA-TREATED MEMBERS WILL RECEIVE (1)
COAT OF FACTORY APPLIED "THOMPSON'S"
WATER SEAL. IT WILL BE THE OWNERS RE-
SPONSIBILITY TO PROVIDE MAINTENANCE OF
CCA-TREATED MEMBERS TO MAINTAIN THIS
WATER SEAL (NIC)

STORAGE, ERECTION & PRECAUTIONS
LAMINATED MEMBERS ARE WRAPPED FOR PROTECTION
DURING SHIPMENT. THE GENERAL CONTRACTOR IS RE-
SPONSIBLE FOR PROTECTION OF THE MATERIALS AT ALL
TIMES AFTER ARRIVAL DESTINATION. IF STORED TEMPORARILY
MEMBERS SHOULD BE PLACED ON BLOCKS AND LEVELLED
WELL OFF THE GROUND, AND SEPARATED WITH WOOD STRIPS
SO THAT AIR CAN CIRCULATE AROUND EACH MEMBER.
COVER THE TOP AND SIDES WITH MOISTURE RESISTANT
PAPER OR OPAQUE PLASTIC. USE NON-MARKING SLINGS
WHEN HANDLING. ROOF COVERING SHOULD BE APPLIED
SOON AFTER ERECTION. PROTECTIVE WRAPPING SHOULD
REMAIN ON MEMBERS UNTIL THEY ARE ENCLOSED WITHIN
OR PARTLY REMOVED DURING STORAGE OF ERECTION. IT
SHOULD BE COMPLETELY REPLACED OR ENTIRELY REMOVED
TO PREVENT DISCOLORATION OF LAMINATED MEMBERS BY
RELATIVE HUMIDITY SHOULD NOT BE REDUCED RAPIDLY.
AND BUILDING HEAT SHOULD BE ELIMINATED GRADUALLY.
DESIRED LEVEL. THESE LAMINATED MEMBERS RECEIVE (1)
COAT OF FACTORY APPLIED SEALER. IF THEY BECOME WE-
OR IF THEY ARE CLEANED IN ANY WAY, THESE MEMBERS
SHOULD BE UNIFORMLY RESEALED BEFORE ADDITIONAL
STAINING OR FINISHING IS DONE IN THE FIELD.

FINISH RECOMMENDATION:
IF THE LAMINATED WOOD MEMBERS ARE TO BE STAINED,
IF THE MEMBERS ARE TO FIELD STAINED OR FIELD RE-
SEALER (WHICH IS POSSIBLE THAT THE FACTORY APPLIED CLEAR
SEALER WHICH IS APPLIED TO PROTECT THE SURFACE OF
THE MEMBERS DURING HANDLING) MAY INTERFERE WITH THE
APPLICATION OF THE STAIN. IN THE WORSE CASE SCENARIO,
PAINT THE SURFACES FOR STAINING. UNADILLA SLO CO.
ASSUMES NO RESPONSIBILITY FOR THE COST OF FIELD
STAINING.



APPROVAL COPY
NOT FOR CONSTRUCTION

LAMINATED WOOD DESIGN
Barbara A. Jonze P.E.
P.O. Box 235, Yarmouth, Me. 04096
(207-848-5580, (office/fax))

GLULAM TIMBER GUARD RAIL				
TOLERANCES (EXCEPT AS NOTED)		REVISIONS		
DECIMAL	NO.	DATE	BY	
2	1			
FRACTIONAL	2			
2	2			
ANGULAR	3			
2	3			

WINTER ST. BRIDGE
BATH, MAINE

DRAWN BY: SCALE: 1/4" = 1'-0"
CHK'D BY: DATE: 9/2/97
TRACED: APP'D: DRAWING NO.: 1/2

120-225