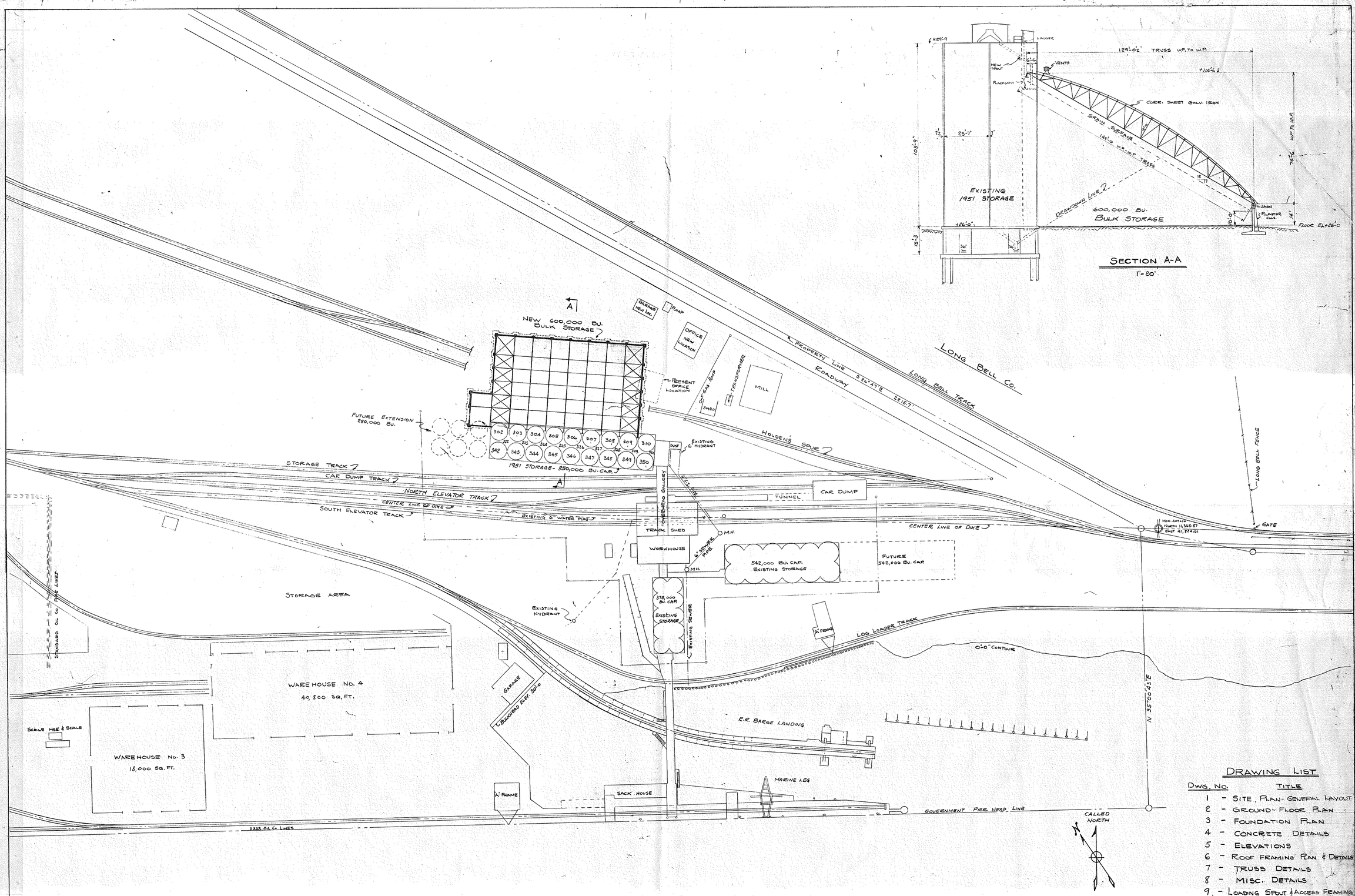
DRAWING NUMBER B54

SECTION A-A
1" = 20'



DRAWING LIST

DWG. NO.	TITLE
1	- SITE PLAN - GENERAL LAYOUT
2	- GROUND FLOOR PLAN
3	- FOUNDATION PLAN
4	- CONCRETE DETAILS
5	- ELEVATIONS
6	- ROOF FRAMING PLAN & DETAILS
7	- TRUSS DETAILS
8	- MISC. DETAILS
9	- LOADING SPOUT & ACCESS FRAMING

E. F. CARTER — STATE OF WASHINGTON — REGISTERED CIVIL ENGINEER

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1954 BULK STORAGE
PORT OF LONGVIEW
LONGVIEW WASHINGTON

SITE PLAN
GENERAL LAYOUT
SCALE 1" = 60'

E. F. CARTER AND MARSHALL-BARR-ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

BY	DATE	NO.	REVISION

DR. RLB APR. 1954 PRINTED
CK. CWB do

3292

DRAWING NUMBER
B55

B @ 26'-2 = 209'-4

SEE SHEET #8 FOR WINDOW & LOUVER DETAILS

10'-0 CONTOUR

20'-0 CONTOUR

TOE

FIN. FLOOR EL. +26'-0

14'-0 CONTOUR

SEE SHEET #5 FOR DOOR DETAILS

10'-0 CONTOUR

3'-0 Min. R

STAND. 1" GRATING (FUT.)

BIN #302 | BIN #303 | BIN #304 | BIN #305 | BIN #306 | BIN #307 | BIN #308 | BIN #309 | BIN #310

7 @ 26'-2 = 183'-2"

GROUND FLOOR PLAN

SCALE 1/8" = 1'-0

1954 BULK STORAGE
PORT OF LONGVIEW
LONGVIEW, WASH.

GROUND FLOOR PLAN

SCALE 1/8" = 1'-0

E. F. CARTER
AND
MARSHALL-BARR-ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

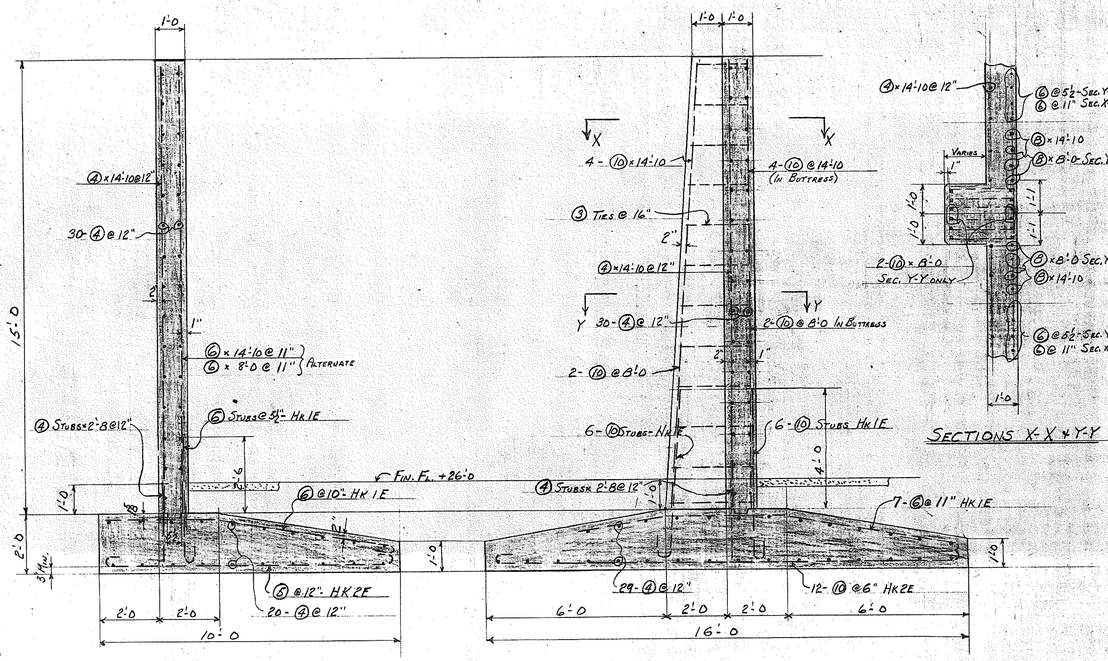
BY	DATE	NO.	REVISION

DR. CWB
CK. EFC APR 54
PRINTED

2

3262A

DRAWING NUMBER B57
DRAWING NUMBER
DRAWING NUMBER



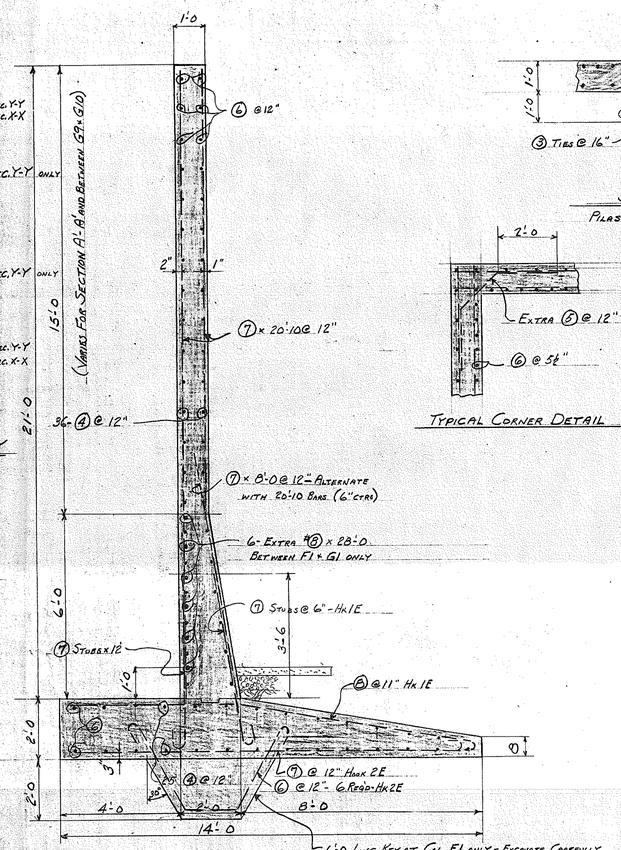
SECTION A-A

Typical Wall Section (14'-0)
Section A'-A' for Footing Only
Section E-E' for Footing Only

SECTION B-B

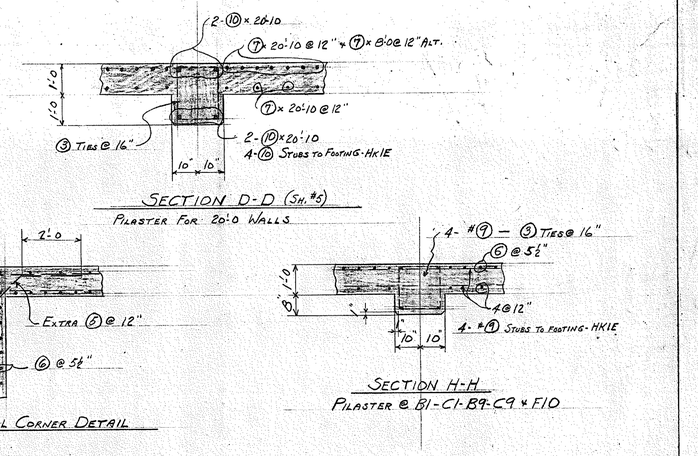
North Wall Pilasters

SECTIONS X-X & Y-Y



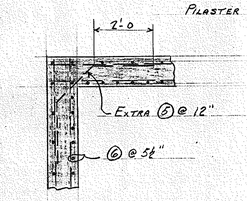
SECTION C-C

Typical 20'-0 Wall
Sec. A-A' & Sec. E-E for Wall Only



SECTION D-D (Sh. #5)

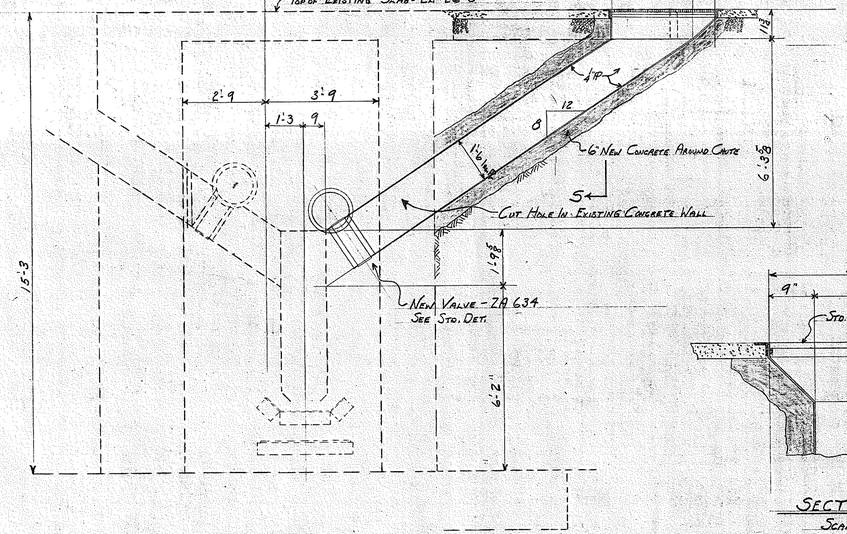
Plaster for 20'-0 Walls



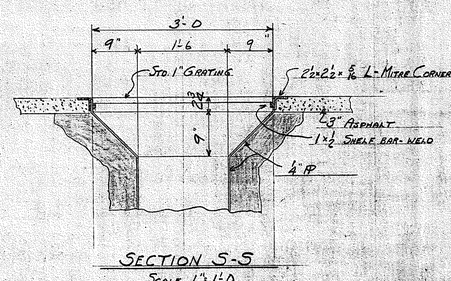
TYPICAL CORNER DETAIL

SECTION H-H

Plaster @ B1-C1-B9-C9 & F10

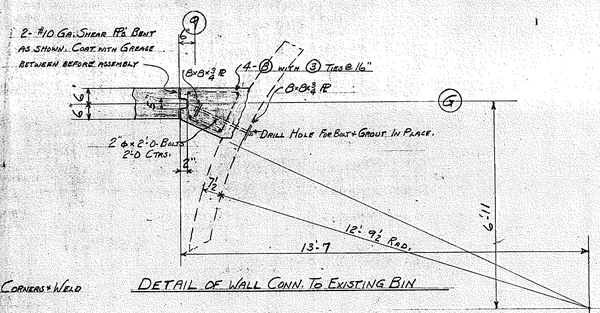


SECTION F-F (Sh. #3)



SECTION S-S

Scale 1" = 1'-0



DETAIL OF WALL CONN. TO EXISTING BIN

Concrete Specifications:

All Structural Concrete shall be 3000# f'c - 1350 fc at 28 days.
Design, proportioning & placing shall be in accordance with A.C.I. Provisions.
Use not less than 6.0 Bags of Cement per Cu.Yd. of Concrete.
Use not more than 6.0 U.S. Gallons of water per Bag of Cement.
All Cement shall be Portland Cement complying with A.S.T.M. Std. Specs & Tests.
Reinforcing shall be Intermediate Grade, fs = 20,000 p.s.i. - A.S.T.M. A15-50T.
Fine aggregate shall be clean, hard, sharp sand, free from injurious amounts (not more than 3% by weight) of salt, dust, organic matter, loam or other deleterious material. Sand shall be well graded.
Coarse aggregate shall be clean, hard crushed rock or gravel, well graded.
Maximum size in walls to be 1", in footings 12".
Approx. quantities per cu.yd of concrete shall be .49 cu.yds Sand & .78 cu.yd. Gravel.
Maximum slump for walls & piers - 4"; for footings 6".
Walls shall be well vibrated.
No admixtures will be permitted except by written permission of the Engineer.
Forms maybe removed from walls 3 days after pouring. Provided surfaces are kept continuously wet for ten days thereafter.
Patch all voids & gravel pockets with cement mortar immediately after stripping forms.

E. F. Carter — State of Washington — Registered Professional Engineer
Marshall & Barr — State of Washington — Registered Professional Engineers

1954 Bulk Storage
Port of Longview
Longview, Wash.

CONCRETE DETAILS

Scale ½" = 1'-0 Unless Noted

E. F. CARTER
AND
MARSHALL-BARR-ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

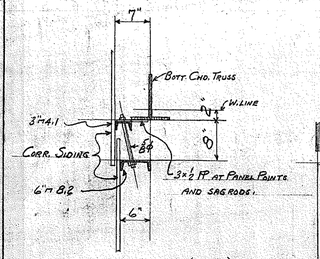
BY	DATE	NO.	REVISION

DR. CWB PRINTED
CK. EFC Tape 54

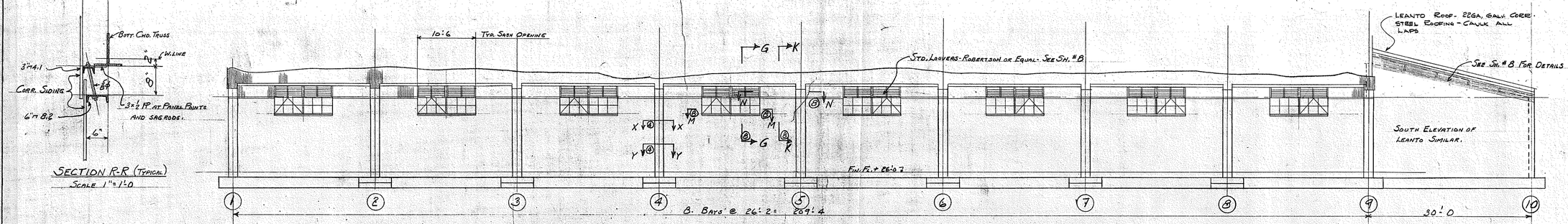
4

32626

DRAWING NUMBER B58



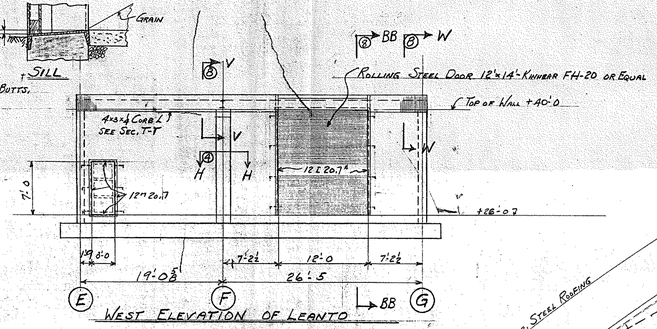
SECTION R-R (TYPICAL)
SCALE 1" = 1'-0

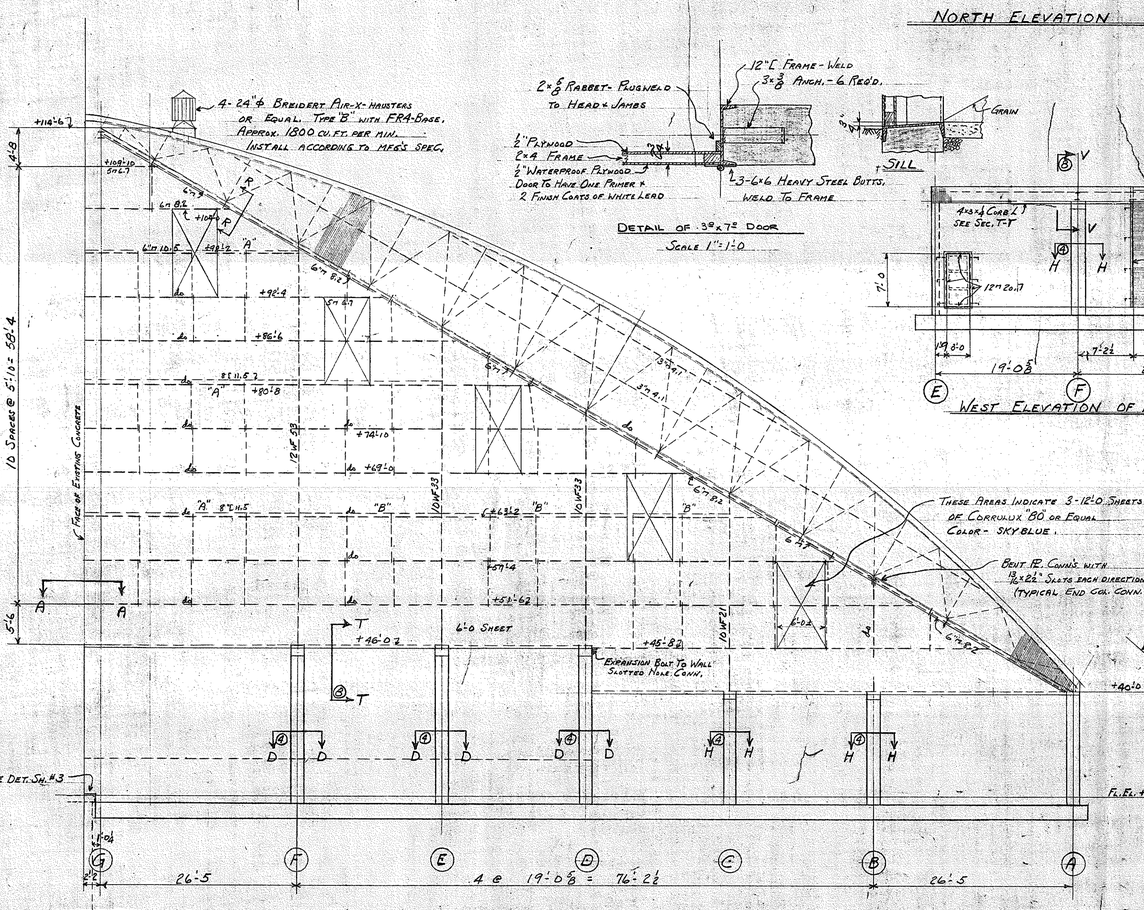


NORTH ELEVATION

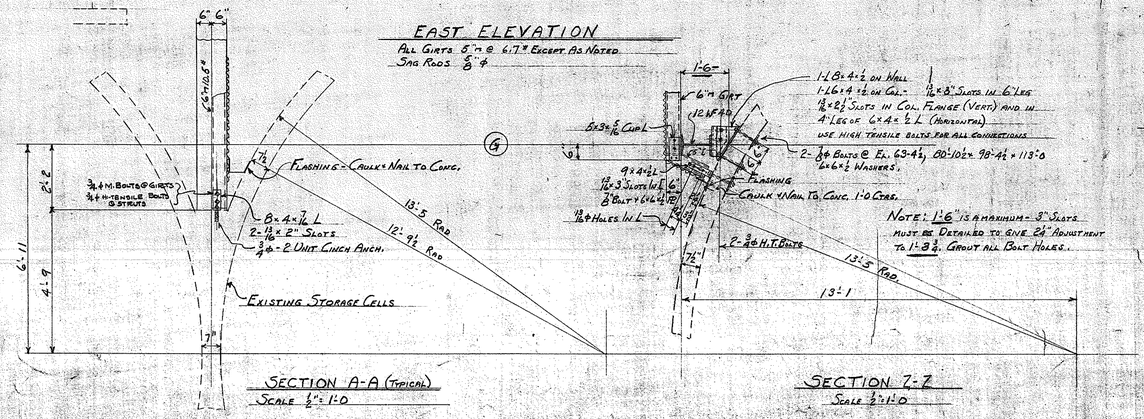
SASH SPECIFICATION:
ALL SASH SHALL BE ALUMINUM ALLOY 6351-T5. SECTIONS SHALL BE 2-BAR TYPE NOT LESS THAN 1/32" THICK X 1 1/4" DEEP. CORNERS SHALL BE MITRED & WELDED. MULLION AND MUNTIN BARS SHALL BE TENONED & WELDED. SASH MUST BE WATERTIGHT. WINDOWS SHALL BE CONSTRUCTED FOR OUTSIDE PUTTY GLAZING. WINDOW MFG. SHALL PROVIDE ALL ANCHORS, CLIPS, MULLIONS & BOLTS REQUIRED FOR CONNECTION TO THE STRUCTURE. SASH TO HAVE ONE SHOP COAT OF ALUMILITE.

DETAIL OF 3'0"x7'2" DOOR
SCALE 1" = 1'-0





EAST ELEVATION
ALL GIRTS 5"m @ 6.7# EXCEPT AS NOTED
SAG RODS ⅝"ϕ



SECTION A-A (TYPICAL)
SCALE ½" = 1'-0

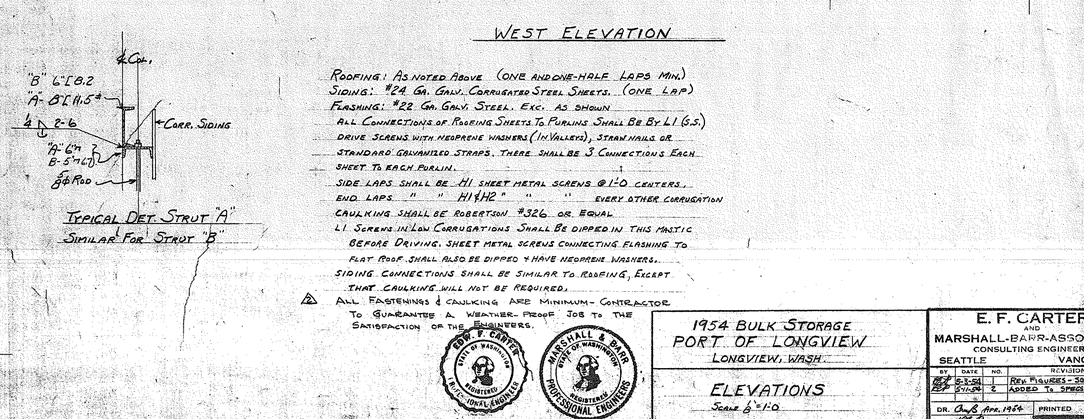
NOTE: 1'-6" IS A MAXIMUM - 3" SLOTS MUST BE DETAILED TO GIVE 2½" ADJUSTMENT TO 1'-3¾". GROUT ALL BOLT HOLES.

SECTION Z-Z
SCALE ½" = 1'-0

TYPICAL DET. STRUT "A"
SIMILAR FOR STRUT "B"

WEST ELEVATION

ROOFING: AS NOTED ABOVE (ONE AND ONE-HALF LAPS MIN.)
SIDING: #24 GA. GALV. CORRUGATED STEEL SHEETS. (ONE LAP)
FLASHING: #22 GA. GALV. STEEL. EXC. AS SHOWN
ALL CONNECTIONS OF ROOFING SHEETS TO PURLINS SHALL BE BY LI (G.S.) DRIVE SCREWS WITH NEOPRENE WASHERS (IN VALLEYS), STRAW NAILS OR STANDARD GALVANIZED STRAPS. THERE SHALL BE 3 CONNECTIONS EACH SHEET TO EACH PURLIN.
SIDE LAPS SHALL BE HI SHEET METAL SCREWS @ 1'-0 CENTERS.
END LAPS " " HI-H2 " " " EVERY OTHER CORRUGATION
CAULKING SHALL BE ROBERTSON #326 OR EQUAL
LI SCREWS IN LOW CORRUGATIONS SHALL BE DIPPED IN THIS MASTIC BEFORE DRIVING. SHEET METAL SCREWS CONNECTING FLASHING TO FLAT ROOF SHALL ALSO BE DIPPED & HAVE NEOPRENE WASHERS.
SIDING CONNECTIONS SHALL BE SIMILAR TO ROOFING, EXCEPT THAT CAULKING WILL NOT BE REQUIRED.
2 ALL FASTENINGS & CAULKING ARE MINIMUM - CONTRACTOR TO GUARANTEE A WEATHER-PROOF JOB TO THE SATISFACTION OF THE ENGINEERS.



1954 BULK STORAGE
PORT OF LONGVIEW
LONGVIEW, WASH.

ELEVATIONS
SCALE ⅛" = 1'-0

E. F. CARTER AND MARSHALL-BARR-ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

BY	DATE	NO.	REVISION
EFC	5-5-54	1	REV. FIGURES - SHT. 2-8
EFC	5-7-54	2	ADDED TO SPECS.

DR. CW & Apr. 1954 PRINTED
CK. EFC Apr. 1954
5
3262

DRAWING NUMBER
B56

8 BAYS @ 26'-2" = 209'-4"

FIN. FL. EL. + 26'-0
FLOOR TO BE 3" OF ASPHALTIC CONCRETE
ON 6" OF COMPACTED GRAVEL OR CRUSHED ROCK.

OMIT MAIN HOOKED BARS IN THIS AREA
RUN ONLY TEMPERATURE BARS (@ @ 12") THROUGH

AT THESE CORNERS OMIT MAIN TOP BARS & RUN TEMPERATURE BARS THROUGH - NO HOOKS - OMIT INSIDE HOOK ON MAIN BOTTOM BARS BUT LAP 40 DIAMETERS TO TEMP. BARS.

CONCRETE KEY - SEE SEC. C-C SH. #4.

TAR PAPER BETWEEN NEW FOOTINGS AND EXISTING FOUNDATION WALLS

3'-0 3'-0 TYPICAL

1'-0 1'-0 TYPICAL

#302 #303 #304 #305 #306 #307 #308 #309 #310

30'-0 13'-1" 7 @ 26'-2" = 183'-2" 13'-1

209'-4"

NOTE TO CONTRACTOR:
℄ OF TRUSS FOR LINE (8) SHALL BE SET AT EXACT INTERSECTION OF BINS No. 302 & 303. THIS DETERMINES A BASE LINE FOR ALL OTHER DIMENSIONS.

FOUNDATION PLAN
SCALE 1/8" = 1'-0

5 x 5 x 3/8 L x 1'-0
5 x 1/4 x 5" PL. WELD
HOLES FOR 3/8" CINCH ANCH.

DETAIL OF RAT GUARD
SCALE 1" = 1'-0

EDGE OF BIN SLAB
FOUNDATION WALL BELOW
CUT OFF FOOTING
RAT GUARD
TWO THICKNESSES OF HEAVY TAR PAPER
19'-5 RAD

DETAIL AT "A"
SCALE 1/2" = 1'-0

NEW WALL LEAVE 3" OPENING FOR SETTLEMENT WITH SPONGE UNTIL CONC. HAS SET 7 DAYS MINIMUM
TOP EXIST. BIN SLAB
CUT BIN SLAB FOR NEW WALL
TWO THICKNESSES HEAVY TAR PAPER BETWEEN OLD & NEW CONC.
RAT LINE (8)

SECTION GG-GG
SCALE 1/2" = 1'-0

1954 BULK STORAGE
PORT OF LONGVIEW
LONGVIEW, WASH.

FOUNDATION PLAN
SCALE 1/8" = 1'-0

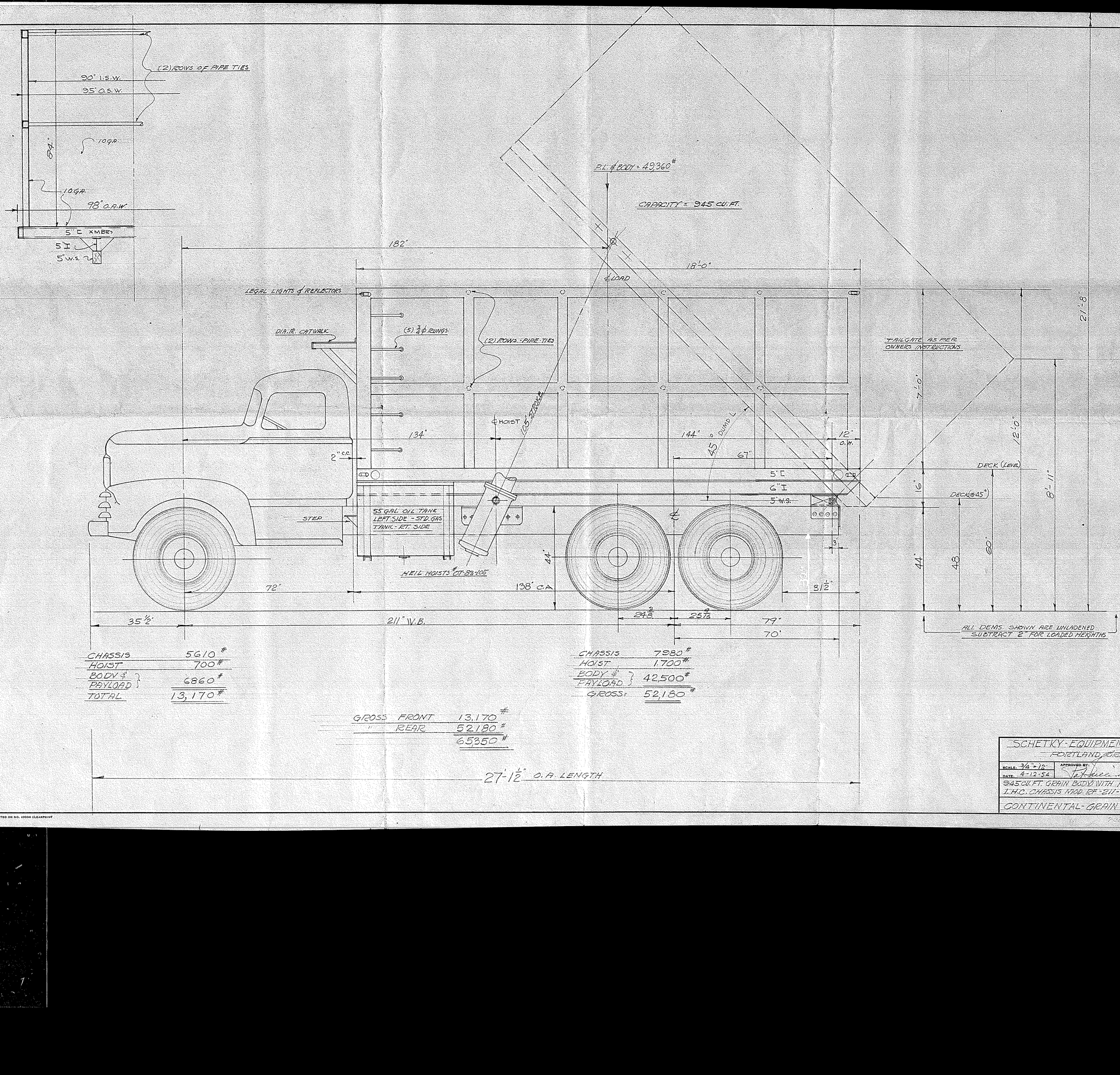
E. F. CARTER AND MARSHALL-BARR-ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

BY	DATE	NO.	REVISION
EFC	9/5/54	1	ADDED BASE LINE @ GL 38

DR. CJ
CH. EFC DATE 8/54
PRINTED.
3

32625

DRAWING NUMBER B63



CHASSIS	5610#
HOIST	700#
BODY & PAYLOAD	6860#
TOTAL	13,170#

CHASSIS	7980#
HOIST	1700#
BODY & PAYLOAD	42,500#
GROSS	52,180

GROSS FRONT	13,170#
" REAR	52180#
	65350#

27'-1 1/2" O.A. LENGTH

SCHETKY-EQUIPMENT-CORP.
PORTLAND, OREGON

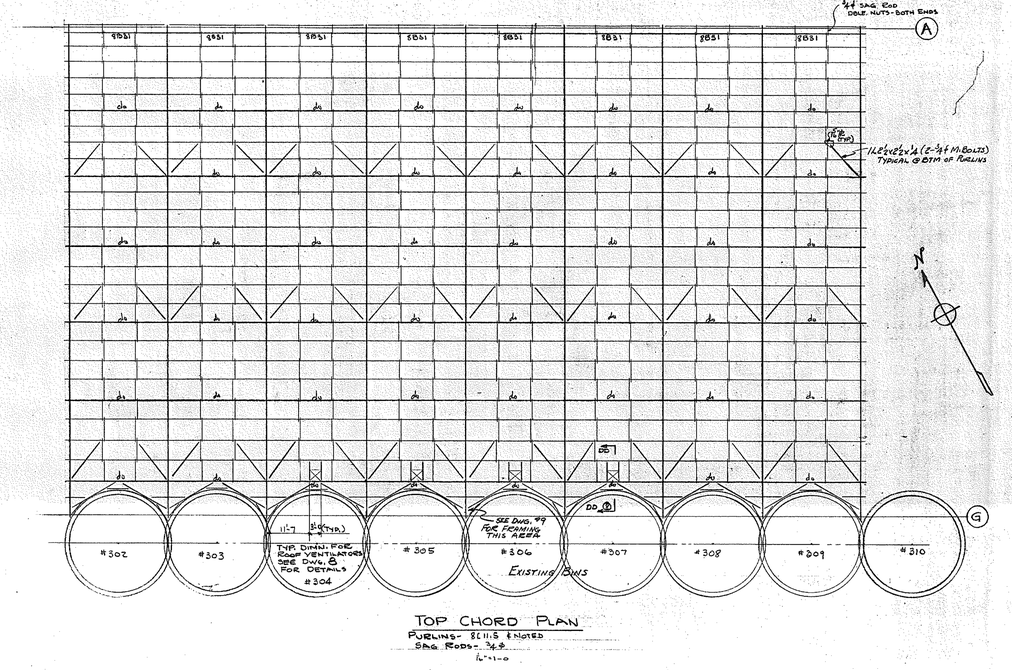
SCALE: 3/4" = 1'0"	APPROVED BY:	DRAWN BY: JM
DATE: 4-12-54		REVISED

945 CU. FT. GRAIN BODY WITH HEIL HOIST OT-83-105
I.H.C. CHASSIS MOD. RF-211 - 11.00 x 22 TIRES

CONTINENTAL-GRAIN-CO. — DRAWING NUMBER D-332

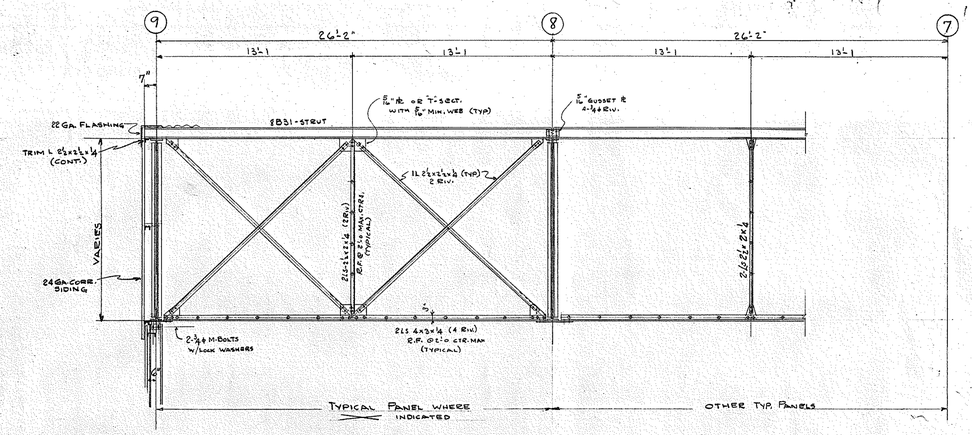
22X34 - PRINTED ON NO. 1000H CLEARPRINT

DRAWING NUMBER
859



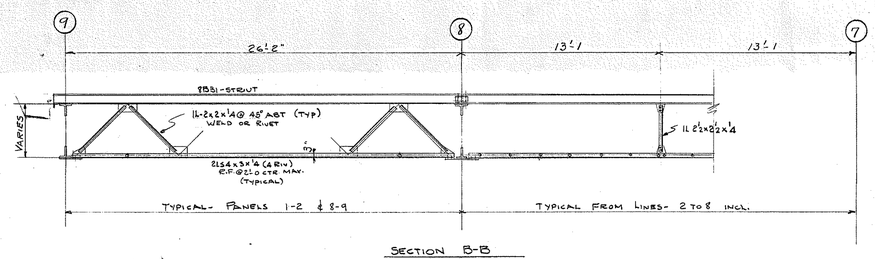
TOP CHORD PLAN

PURLINS- 8C11.5 & NOTED
SAG RODS- ¾ø
¼"=1'-0



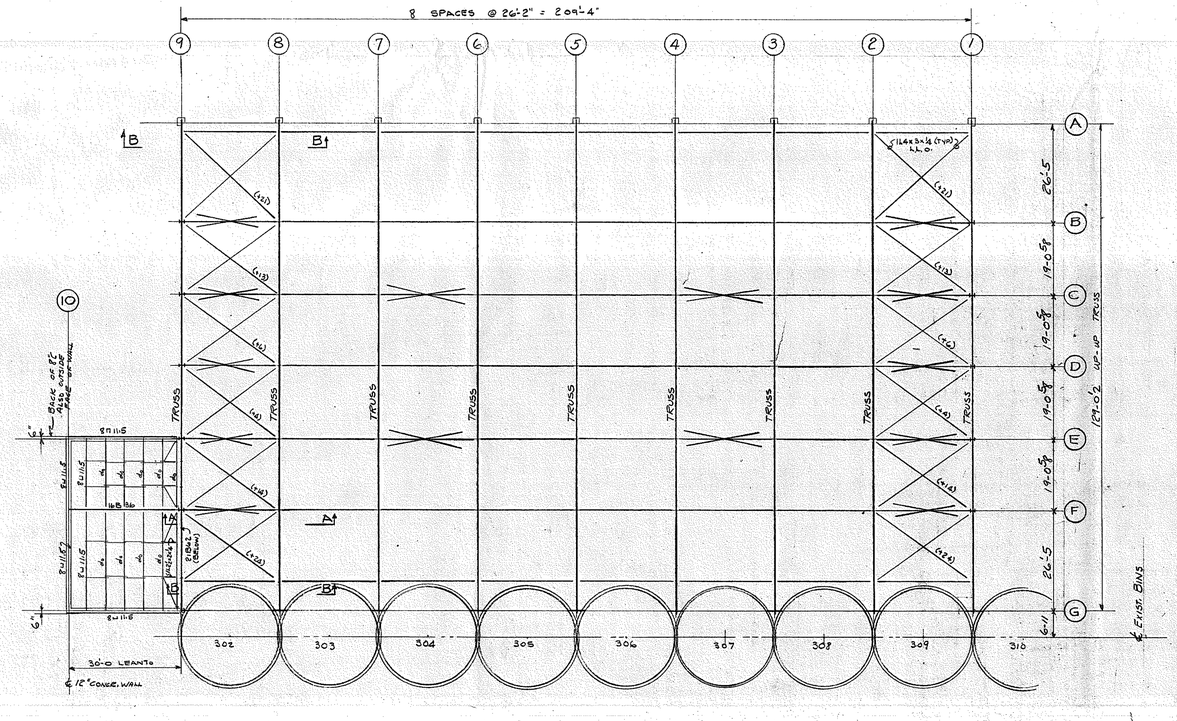
SECTION A-A

¼"=1'-0



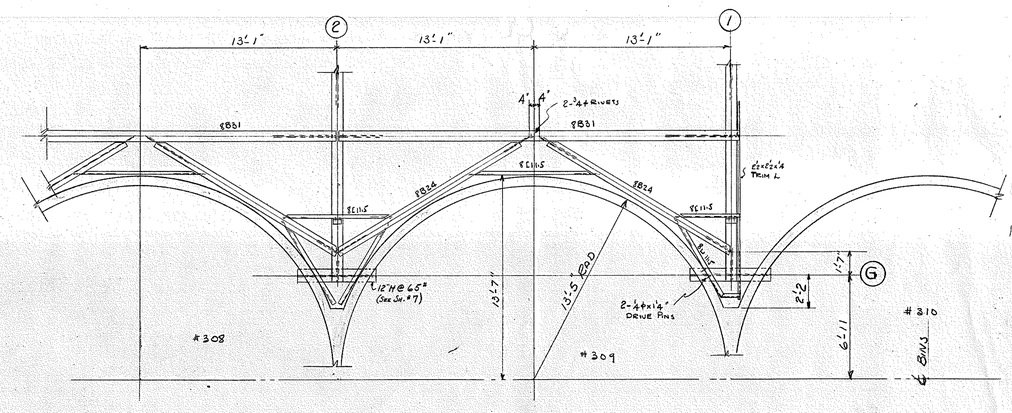
SECTION B-B

¼"=1'-0



BOTTOM CHORD PLAN

¼"=1'-0



TYPICAL ROOF DETAIL @ BINS

¼"=1'-0

STRUCTURAL STEEL SPECIFICATIONS:

MATERIAL: MED. OPEN HEARTH- A.S.T.M. SER. DES. A7-46
f_s = 20,000 P.S.I. ROOF LIVE LOAD 20 #/s', WIND LOAD 20 #/s' HORIZONTAL.
SHOP PAINT: ONE COAT ZINC CHROMATE
FIELD PAINT: TWO COATS BRIGHT ALUMINUM.
ALL FABRICATION & ERECTION IN ACCORDANCE WITH LATEST AISC SPECS.
SHOP FABRICATION TO BE ¾ø RIVETS OR MAY BE WELDED
FIELD CONNECTIONS- MAIN MEMBERS & BRACING- ¾ø RIVETS
PURLINS & GIRTS- ¾ø M. BOLTS
ALL WELDING SHALL BE IN ACCORDANCE WITH A.W.S. SPECIFICATIONS- USE ONLY HEAVY COATED ELECTRODES.

EDW. F. CARTER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

MARSHALL & BARR — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEERS

1954 BULK STORAGE
PORT OF LONGVIEW
LONGVIEW WASH.

ROOF FRAMING PLAN AND DETAILS

SCALE: As indicated

E. F. CARTER AND MARSHALL-BARR-ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

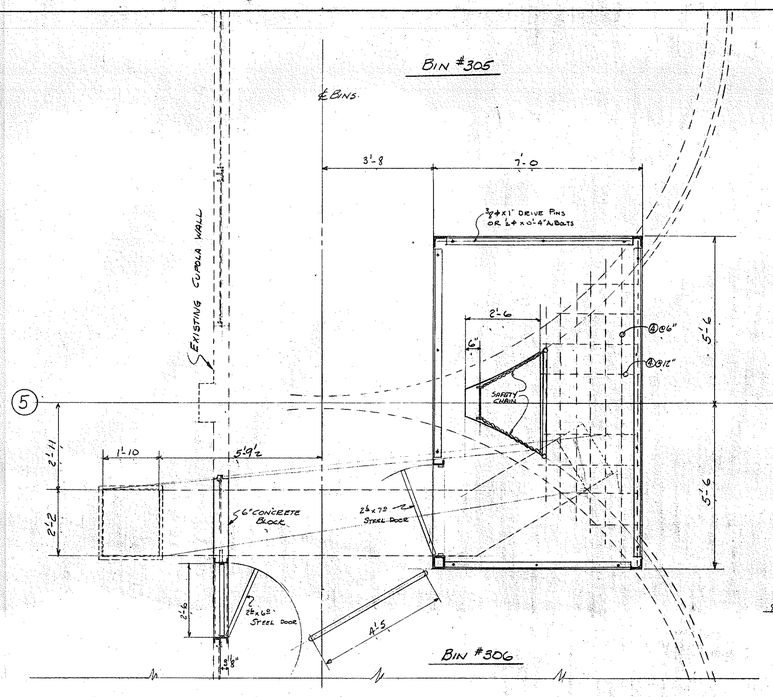
BY	DATE	NO.	REVISION
RCP	4/15/54	1	ADDED LEANTO. REVISED ROOF FRAMING
RCP	11/1/54	2	ADDED SPACE

DR: RCP APR. '54 PRINTED:
CK: DWB do

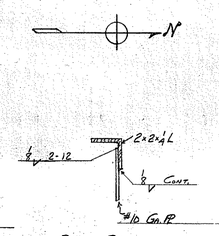
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32628

DRAWING NUMBER
862

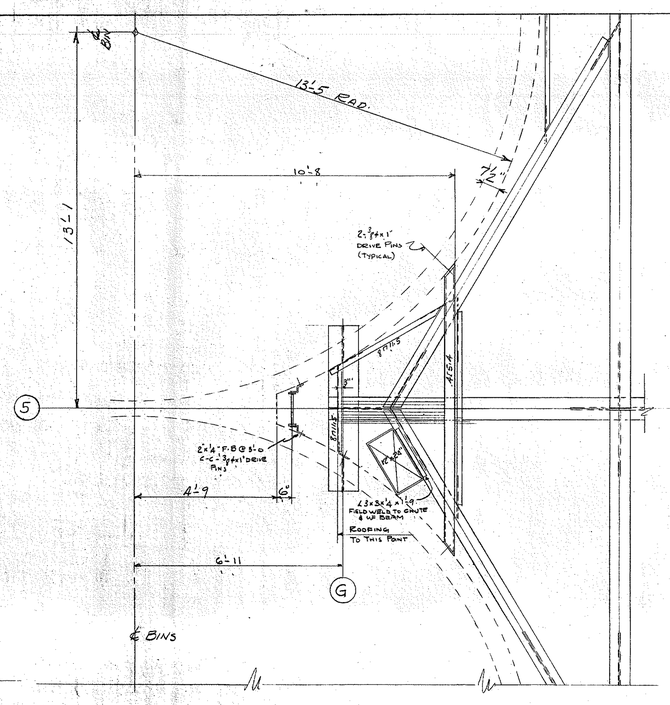


PLAN AT TOP OF EXISTING BINS

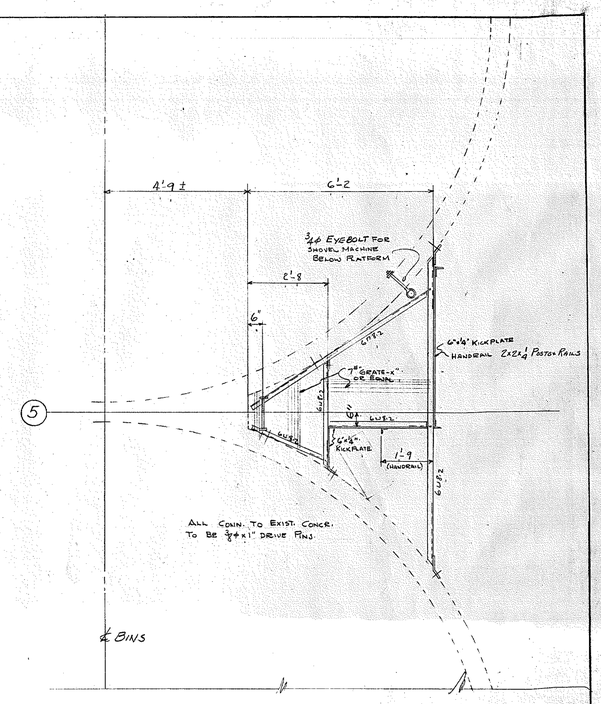


DOOR DETAIL
SCALE 3"=1'-0

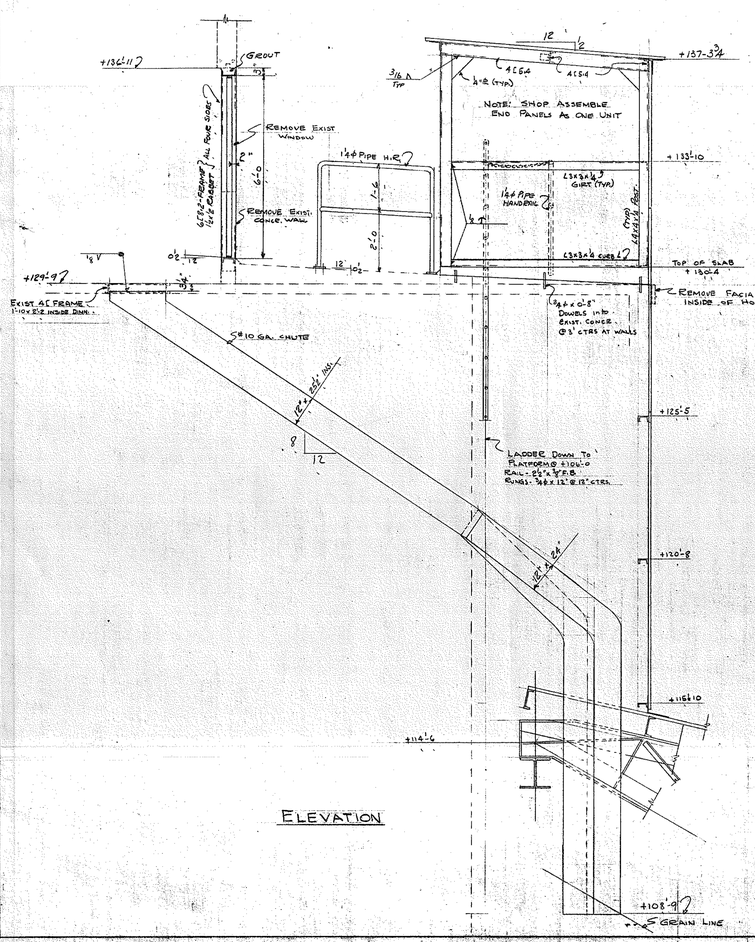
1½ PAIR-4 x 4 STEEL BUTTS - WELD TO DOOR & FRAME
PROVIDE HEAVY THUMB LATCH ON EACH DOOR



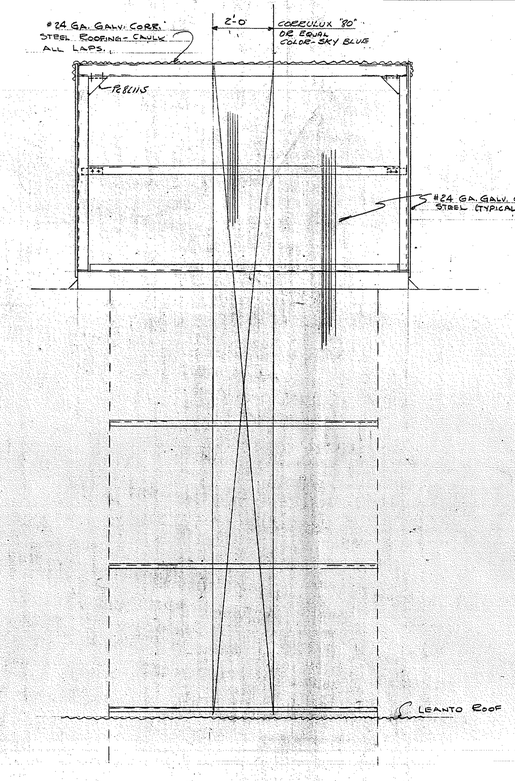
PLAN AT TOP CHORD OF TRUSS



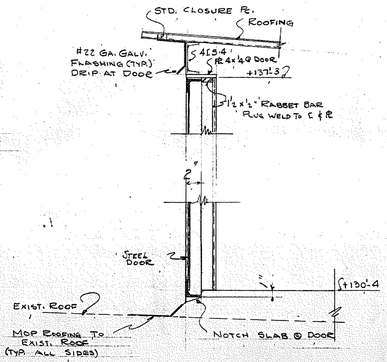
PLAN AT PLATFORM
(TOP OF BEAMS @ ELEV: +106'-0)



ELEVATION



NORTH ELEVATION



DETAIL AT 2'6" x 7'0" DOOR
SCALE: 1½"=1'-0

1954 BULK STORAGE PORT OF LONGVIEW LONGVIEW WASHINGTON	E. F. CARTER AND MARSHALL-BARR-ASSOCIATES CONSULTING ENGINEERS SEATTLE VANCOUVER
LOADING SPOUT AND ACCESS FRAMING SCALE: 1/4"=1'-0 UNLESS NOTED	BY / DATE / NO. / REVISION DR. RCC MAY 54 PRINTED CK. CWS MAY 54

9

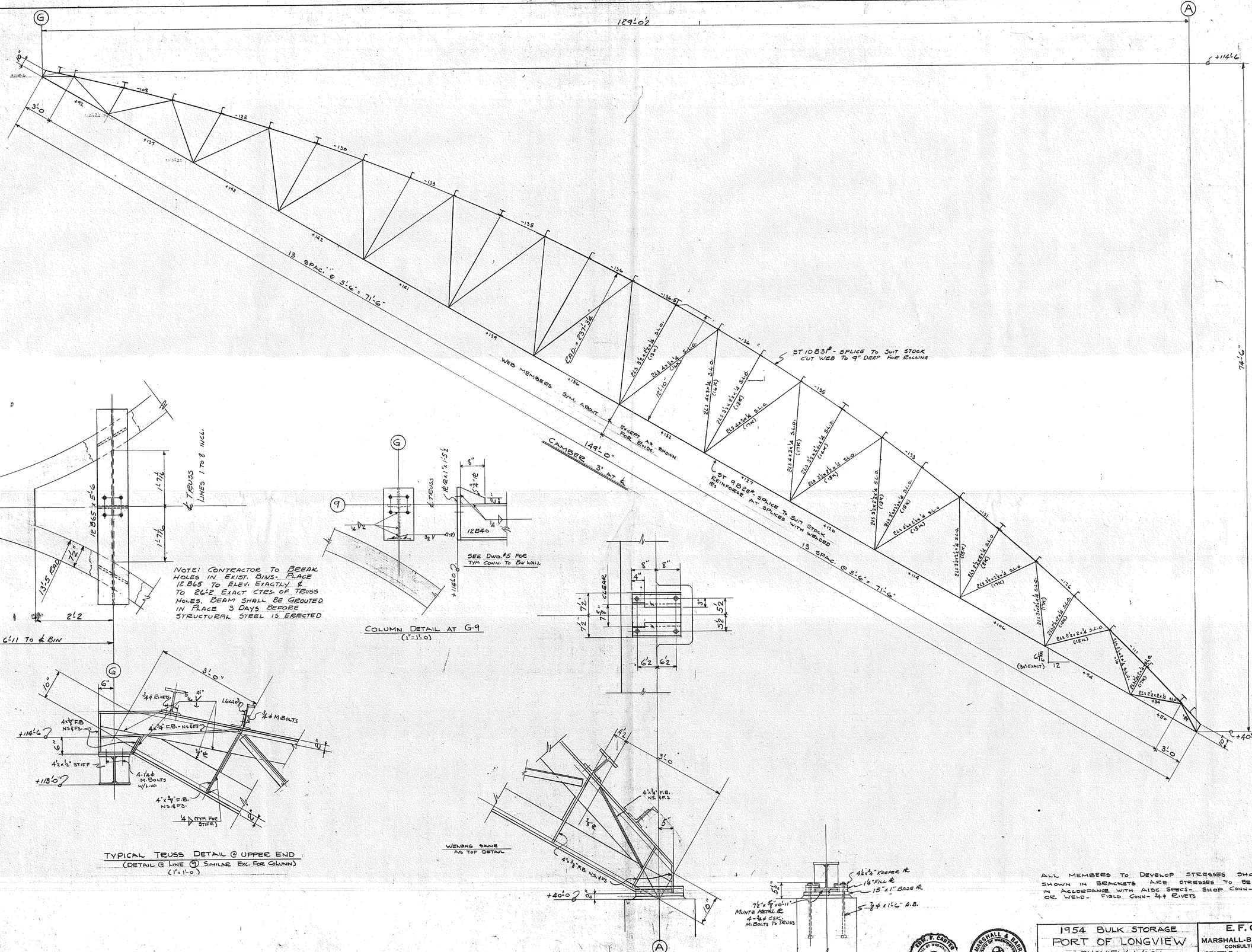
32641

DRAWING NUMBER 860

DRAWING NUMBER

DRAWING NUMBER

DRAWING NUMBER



COLUMN DETAIL AT G-9
(1"=1'-0)

TYPICAL TRUSS DETAIL @ UPPER END
(DETAIL @ LINE ⑨ SIMILAR EXC. FOR COLUMN)
(1"=1'-0)

TYPICAL TRUSS DETAIL @ LOWER END
(1"=1'-0)

ALL MEMBERS TO DEVELOP STRESSES SHOWN - STRESSES SHOWN IN BRACKETS ARE STRESSES TO BE DEVELOPED IN ACCORDANCE WITH AISC SPECS. SHOP CONN - ¾ø RIVETS OR WELD. FIELD CONN - ¾ø RIVETS

E. F. CARTER STATE OF WASHINGTON REGISTERED ENGINEER BUILT - 1954 LL ENGINEERS

MARSHALL & BARR STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEERS

1954 BULK STORAGE
PORT OF LONGVIEW
LONGVIEW, WASH.

TRUSS DETAILS
SCALE: NOTED

E. F. CARTER AND MARSHALL-BARR-ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

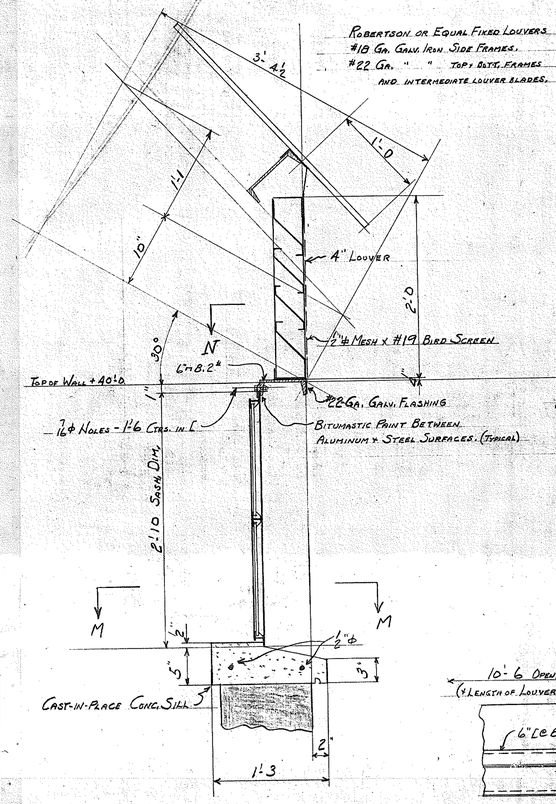
BY	DATE	NO.	REVISION
EFC	8/31/54	1	ADDED CAISSON LINE-9 REVISED
EFC	9/1/54	2	REVISED BIN LOC

DR. EFC APR. 54 PRINTED
CK. CWB APR. 54

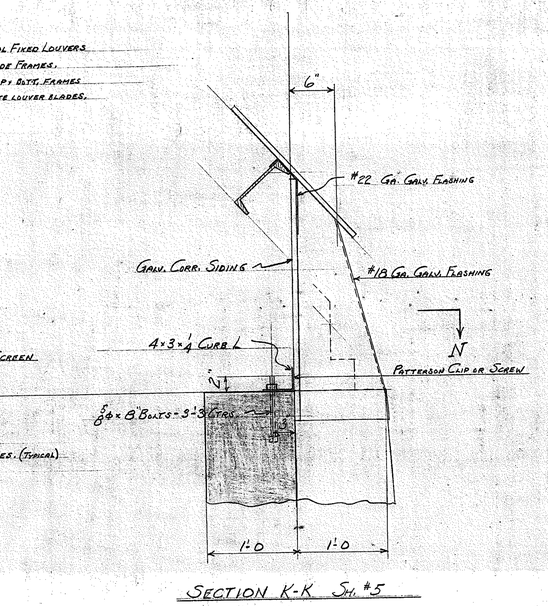
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32629

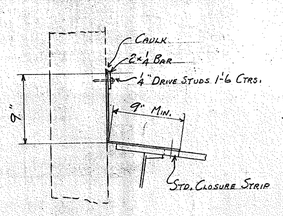
DRAWING NUMBER 861



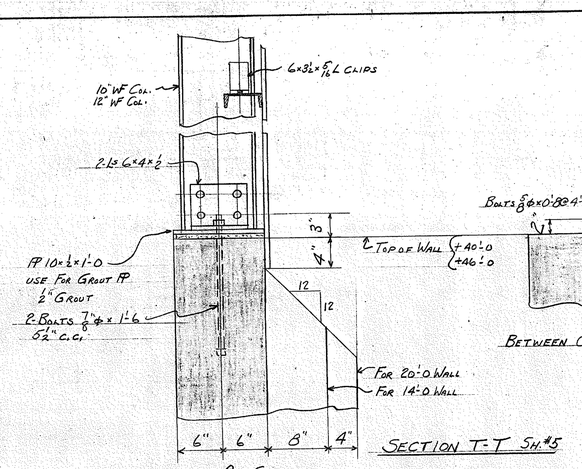
SECTION G-G, SH. #5



SECTION K-K SH. #5

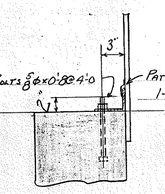


TYPICAL FLASHING DETAIL AT EXISTING WALLS

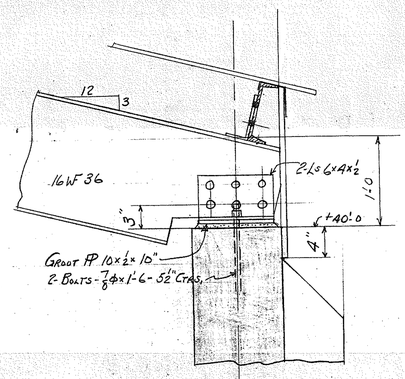


AT COLUMNS

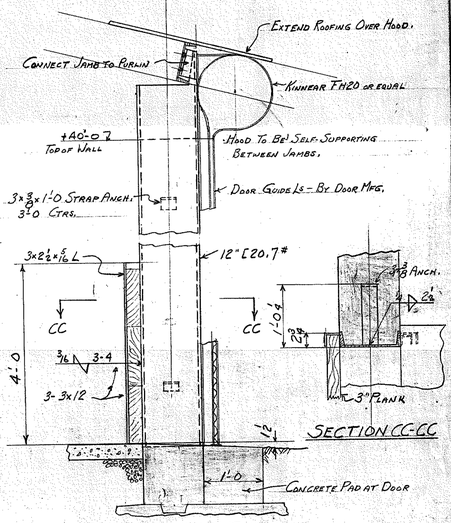
SECTION T-T SH. #5



BETWEEN COLUMNS



SECTION V-V SH. #5

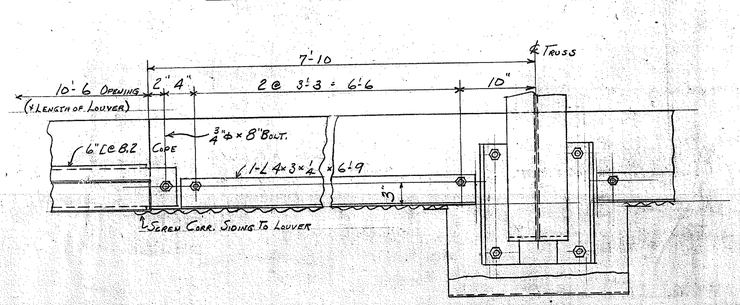


SECTION CC-CC

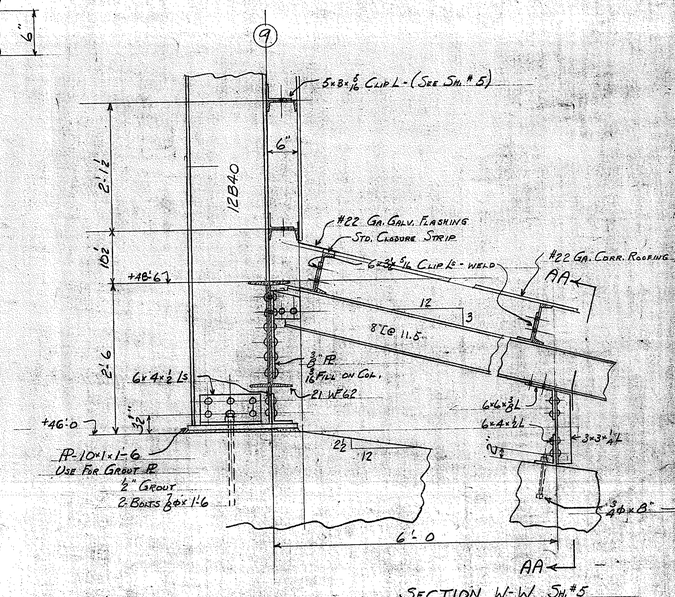
SECTION BB-BB; SH. #5
Scale 1"=1'-0



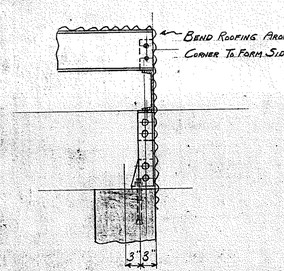
SECTION M-M



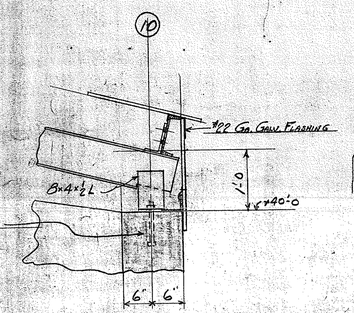
SECTION N-N

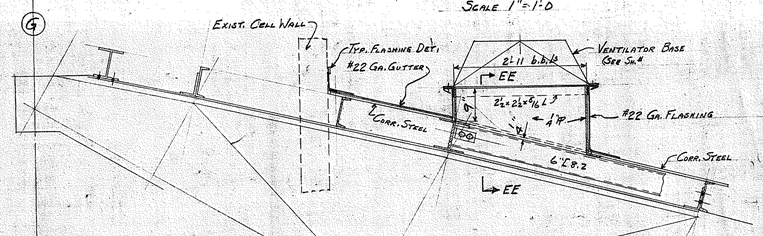


SECTION W-W SH. #5
Scale 1"=1'-0

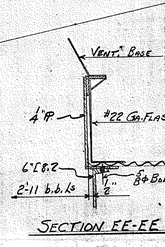


SECTION AA-AA
Scale 1"=1'-0





SECTION DD-DD-SH. #6
Scale ¾"=1'-0



SECTION EE-EE

1954 BULK STORAGE
PORT OF LONGVIEW
LONGVIEW, WASH.

DETAILS

Scale ½"=1'-0 Unless Noted

E. F. CARTER
AND
MARSHALL-BARR-ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

No.	Date	Revision
1	1/14/54	Sect. W-W; Ch. to 16B65 to 12B40

Drn. C.H.B. Printed 6
Ch. E.F.C. Apr. '54

32630

B64

DRAWING NUMBER

SECTION B-B

SECTION C-C

SECTION D-D

SECTION P-P

8 SPACES @ 26'-2 = 209'-4

SPACING TYP. ALL BAYS LINE A

DETAIL "C"
(TYP. FOR ALL COL. EXCEPT G9)

SECTION E-E

DETAIL "D"

SECTION F-F

DETAIL "B"
TYPICAL LINES (1) TO (9)

SECTION A-A

VIEW G-G

DETAIL "E"

SECTION N-N

VIEW K-K
VIEW M-M (OPP. HAND)

DETAIL "A"
(TYPICAL LINES 1-8)

SECTION J-J
TYPICAL FOR DOOR JAMBS

SECTION H-H
TYPICAL JAMB & HEAD FOR DOOR FRAME

NOTE:
CONTRACTOR TO BREAK HOLES IN EXISTING BINS; PLACE BI (12"BG5) TO EXACT ELEV. & TO 26'-2 EXACT CENTERS OF TRUSS HOLES. BEAM SHALL BE GROUTED IN PLACE 3 DAYS BEFORE STRUCTURAL STEEL IS ERECTED.

NOTE TO CONTRACTOR:
℄ OF TRUSS FOR LINE 8 SHALL BE SET AT EXACT INTERSECTION OF BINS 302 & 303. THIS SHALL DETERMINE A BASE LINE FOR ALL DIMENSIONS

TYPICAL BIN DIMENSIONS

ANCHOR BOLT PLAN

NOTES:
1. ANCHOR BOLTS FURNISHED BY B.P.C.S.C., SET BY OTHERS.
2. BASE PLS FURNISHED BY B.P.C.S.S., SET TO GRADE & GROUTED BY OTHERS.
3. ERECTION BY B.P.C.S.C.
4. ALL FIELD CONNECTIONS TO BE ¾" A325 HI-TENSILE BOLTS UNLESS OTHERWISE SHOWN OR NOTED.
5. ALL CHANNEL PURLINS, GIRTS, MISC. FRAMING, & COLUMN TO TRUSS CONNECTIONS TO BE ¾" M.B.
6. TRUSS TO BEAM CONN. TO BE 1¼" M.B. W/L.W.

RIVETS
OPEN HOLES
REAM
MILLING
PAINT
WELDING
SHOP CONTACT SURFACES

SHOP

TEMP.
SUPT.
LAYOUT
FITTER
SHOP INSP.
PC. WK.
B. SMITH
MCH.
ERECT.
O. INSP.

ANCHOR BOLT PLAN
1954 BULK STORAGE
PORT OF LONGVIEW; LONGVIEW, WASH.
BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORK
IN CHARGE MONDT MADE BY SHINDLER 4-30
CHECKED BY G.E.P. 5-5-54 TRACED BY
REVISED LAST ASSEM. MK.
CONTRACT CRB103 SHEET 2

3200-2m-4,51-BSCo

DRAWING NUMBER 868

SEE DETAIL A

DETAIL A

DETAIL B - TYPICAL FOR G17
DETAIL C - TYPICAL FOR S17

SECTION DD

SEC FF (TYP)
SEC GG (TYP)

TOP CHORD FRAMING DETAIL
TO BINS @ LINE 5
SEE SHEET E2
DRIVE PINS FURN. & SET BY B.P.C.S.Co.

TYPICAL END COLUMN DETAIL

10 SPACES @ 5'-0 = 58'-4

4 SPACES @ 19'-0 5/8 = 76'-2 1/2

26'-5

EAST ELEVATION

SECTION AA - (TYPICAL FOR GIRTS)
SECTION BB - (TYPICAL FOR STRUTS)

SECTION CC

SECTION HH

NOTE: CINCH ANCHORS & BOLTS FURN. BY B.P.C.S.Co., SET BY OTHERS.

NOTE
ALL SAG RODS 5/8 ϕ

RIVETS	
OPEN HOLES	
REAM	
MILLING	
PAINT	
WELDING	
SHOP CONTACT SURFACES	

TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
B. SMITH	
MCH.	
ERECT.	
O. INSP.	

EAST ELEVATION
1954 BULK STORAGE
PORT OF LONGVIEW, LONGVIEW, WASH.
BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS
IN CHARGE A.L.M. MADE BY NCT 5-7-54
CHECKED BY CER 5-20-54 TRACED BY
REVISED LAST ASSEM. MK:
SHOP NO. CONTRACT CR 8103 SHEET E5

865

8 @ 26'-2 = 209'-4

SECTION L-L (TYPICAL)

SECTION MM (TYPICAL) ℄ of SPLICE

TYPICAL ALL BAYS

℄ of BINS

SEC AA
SEC B-B ~ OPPOSITE HAND TO SECTION AA

SEC CC
SEC DD ~ OPP HAND TO SECTION CC

SEC EE
SEC FF ~ OPP HAND TO SECTION EE

SEC J-J
SOUTH ELEVATION OF LEANTO

SEC G-G

SEC H-H
TYP.

BOTTOM CHORD PLAN

TOP CHORD BRACING DETAILS @ BINS
SEE SHEET E3
SEE SHEET E5 FOR FRAMING @ LINE 5

NOTE: DRIVE PINS FURN. & SET BY B.P.C.S.Co.

RIVETS
OPEN HOLES
REAM
MILLING
PAINT
WELDING
SHOP CONTACT SURFACES

	a	b	c
a			
b			
c			
d			
f			
g			
h			
k			
m			
p			
s			
t			
v			
w			

TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PL. WK.	
B. SMITH	
MCH.	
ERECT.	
O. INSP.	

ROOF FRAMING
195A BULK STORAGE
PORT of LONGVIEW, LONGVIEW, WASH.

BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SCALE WORKS

IN CHARGE A.L.M. MADE BY MCT 5-5-54
CHECKED BY CEP 5-7-54 TRACED BY
REVISED LAST ASSEM. MK.

SHOP NO.
CONTRACT CR 8103
SHEET E2

3200-2m-4.61-BSCo

DRAWING NUMBER 869

F.S.G.L. FOR T5R
N.S. & F.S. G.L. FOR T1 & T2R

SECTION A-A (FOR T5R)

SECTION B-B (FOR T5R)

SECTION C-C (FOR T5R)

BOTTOM CHORD T1

BOTTOM CHORD T2R

BOTTOM CHORD T5R

MAKE - 5 TRUSSES MARK - T1

MAKE - ONE TRUSS MARK - T2R
do - ONE do do - T2L

MAKE - ONE TRUSS MARK - T5R
do - ONE do do - T5L

SEE SHEET 3 FOR CAMBER DIAGRAM.

TOTAL WELD

16 V	720'-0
4 V	298'-6
16 V	153'-0
16	56'-8
4	44'-3
8	5'-8
8	6'-0

RIVETS
OPEN HOLES 13/16" ϕ AS NOTED
REAM NOTED
MILLING
PAINT ZINC CHROMATE
WELDING AS NOTED
SHOP CONTACT SURFACES NO PAINT

TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
S. SMITH	
MCH.	
ERECT.	
O. INSP.	

UPPER END TRUSSES
1954 BULK STORAGE
PORT OF LONGVIEW, LONGVIEW, WASH.
BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS
IN CHARGE MONDT. MADE BY SHINDLER 6-7-54
CHECKED BY CEP 6-26-54 TRACED BY
REVISED LAST ASSEM. MK.
SHOP NO. CONTRACT CRB103 SHEET 1

3200-2-441-8604

DRAWING NUMBER

866

8 @ 26'-2 = 209'-4

NOTE:
TYPICAL ORIENTATION OF BE'LS PURLINS FOR ALL BAYS

TYPICAL SPACING FOR ALL BAYS

8'-10 | 8'-6 | 8'-10

8'-8½ | 8'-9 | 8'-8½

L 2½ x 2½ x ¼ w/ ⅜ ø MB TYP @ BTM of PURLINS

DOUBLE NUT BOTH ENDS (THESE SAG RODS (ALL BAYS))

(2) L 4 x 3 x ¼ BELOW (LACED TO STRUT)

2(L 4 x 3 x ¼ BELOW LACED TO STRUT)

2L 4x3x¼ BELOW LACED TO STRUTS

2L 4x3x¼ BELOW LACED TO STRUT

2L 4x3x¼ BELOW LACED TO STRUT

℄ of TRUSS SPLICE

TRIM L 2½ x 2½ x 4 (TYP.)

TRIM L 2½ x 2½ x 4 (TYP.)

8B31

P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29 P30 P31

D1 D2 D3 D7 D8 D9

T1 T3 T7 T8 T9

M1 M2 M3 M4 M5 M7 M8 M9 M10 M11 M12 M13 M14 M15 M16 M19 M20

BULLS

SEC BB (TYP)

L 2½ x 2½ x 4

SECTION CC
SECTION DD

TYPICAL ALL BAYS FROM LINE 2 TO LINE B ON STRUT LINES INDICATED

NOTE:
① ALL PURLINS ARE BE'LS EXCEPT AS SHOWN.
② ¾ ø SAG RODS
③ FRAMING DETAILS & EXISTING STOR'S. BINS, SEE SHT. E2 & SHT. E5

#302 | #303 | #304 | #305 | #306 | #307 | #308 | #309

℄ of STORAGE BINS

TOP CHORD PLAN

DETAIL A (TYPICAL)

SEC A-A

CONNECT VENT BASE WITH ¾ø H.T. BOLTS

NOTE:
FOR FRAMING OF BE'LS to BINS ON LINES 1 TO A & 6 TO 9 SEE DETAIL ON SHEET E2. FOR SIMILAR FRAMING ON LINE 5, SEE DETAIL ON SHEET E5

N

RIVETS
OPEN HOLES
REAM
MILLING
PAINT
WELDING
SHOP CONTACT SURFACES

TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
S. SMITH	
MCH.	
ERECT.	
O. INSP.	

ROOF FRAMING PLAN (TOP CHORD)
1954 BULK STORAGE
PORT OF LONGVIEW, LONGVIEW, WASH.

BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS

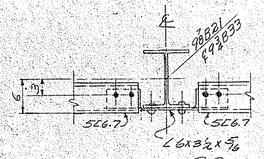
IN CHARGE ALM | MADE BY NCT 5-3-54
CHECKED BY CLF-5-6-54 | TRACED BY
REVISED | LAST ASSEM. MK.

SHOP NO. | CONTRACT CR 8103 | SHEET E3

3300 2m-4.51-RSO

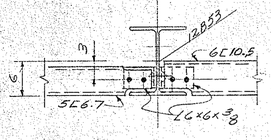
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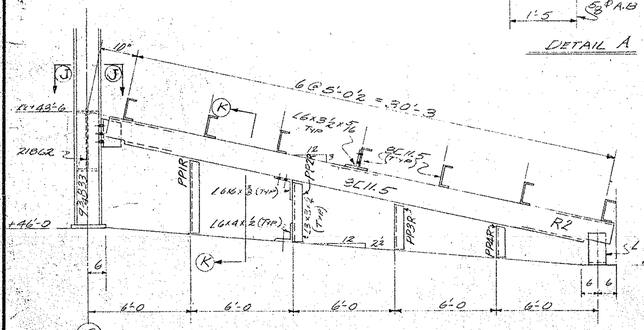
SECTION GG

TYPICAL GIRT FRAMING TO 10" COLUMNS.



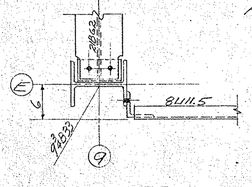
SECTION HH

TYPICAL GIRT FRAMING @ 12" COL EXCEPT AS INDICATED

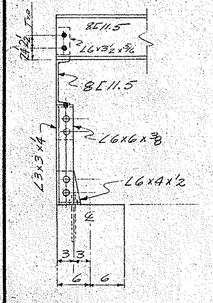


SEC FF

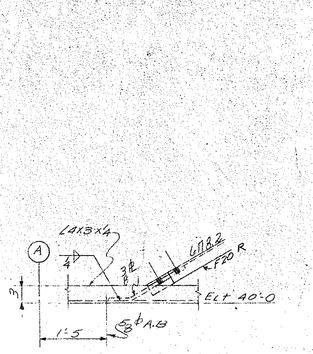
FROM SHEET E2



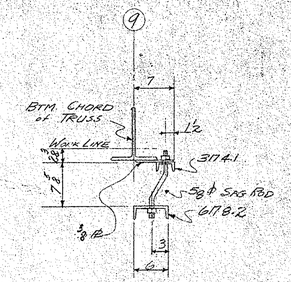
SEC JJ



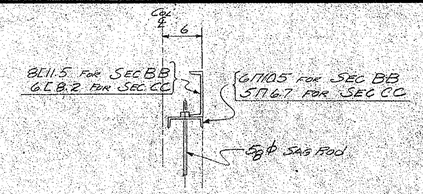
SEC KK



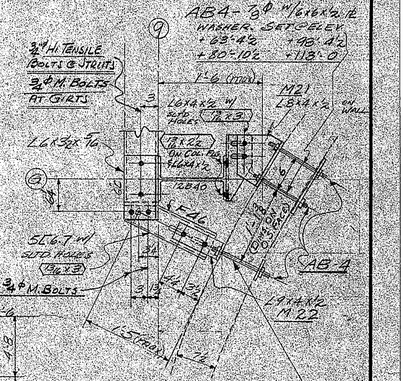
DETAIL A



SECTION A-A



SEC. BB
SEC. CC


AB4 - 3ϕ H.T. M/6x6x½ L2
MARKER SET @ ELEV
+63'-4½
+80'-10½
+98'-4½
+113'-0
¾ϕ H.T. TENSILE BOLTS & STRUTS
¾ϕ M. BOLTS AT GIRTS
1'-6 (TYP.)
L6x4x½ M
AUTO HOLES 1B23
M21
L8x4x½
c/c WALL
L6x3½x⅜
7/8 x 2½ OVSL HOLES
12B40
1'-6
SL6.7 M
AUTO HOLES 13x23
3/4ϕ M. BOLTS
AB-3
L7x4x½
M22
(STRUT)
3½
3½
3
3
3

B70

DRAWING NUMBER

(With Hex Nuts) 3/8"ø x 2 1/4 Csk. Hd. M.B. Csk. Bronze Pl So That Bolts Heads Are Recessed At Least 1/8". Tack Weld Nuts After Tightening.

Grind Edges Of Bronze Pl & Tee Flg. If Necessary

SECTION A-A

ALL PARTS NOT SHOWN FOR T3 & T4R SAME AS T1

ALL PARTS NOT SHOWN FOR T6R SAME AS T5R

BOTTOM CHORD - T3

BOTTOM CHORD - T4R

BOTTOM CHORD - T6R

MAKE - 5 TRUSSES MARK - T3

MAKE - ONE TRUSS MARK - T4R
do - ONE do do - T4L

MAKE - ONE TRUSS MARK - T6R
do - ONE do do - T6L

SEE SHEET 3 FOR CAMBER DIAGRAM

TOTAL WELD

1/2 V	720'-0
4 V	306'-8
1/2	110'-3
4	64'-9
1/2	42'-5
3/8	6'-0

RIVETS —
OPEN HOLES 1/2"ø & 4 As Noted
REAM Noted
MILLING —
PAINT One Coat
WELDING As Noted
SHOP CONTACT SURFACES No Paint

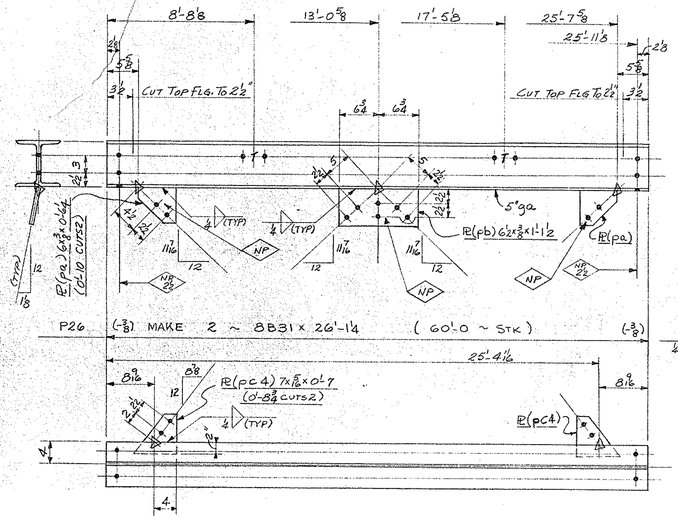
SHOP NO.

TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
B. SMITH	
MCH.	
ERECT.	
O. INSP.	

TRUSSES
1954 BULK STORAGE
PORT OF LONGVIEW, LONGVIEW, WASH.
BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS
IN CHARGE MONDT. MADE BY SHINDLER 4-27-54
CHECKED BY G.E.P. 5-26-54 TRACED BY
REVISED LAST ASSEM. MK.
CONTRACT CR9103 SHEET 2

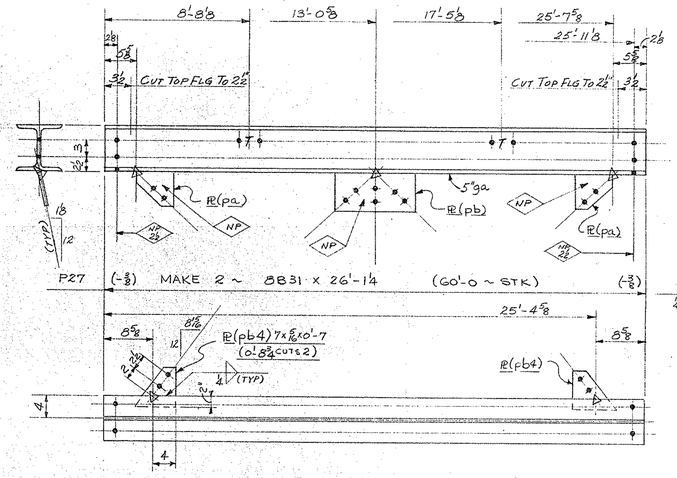
3200-2m-4.51-BSCo

DRAWING NUMBER B73



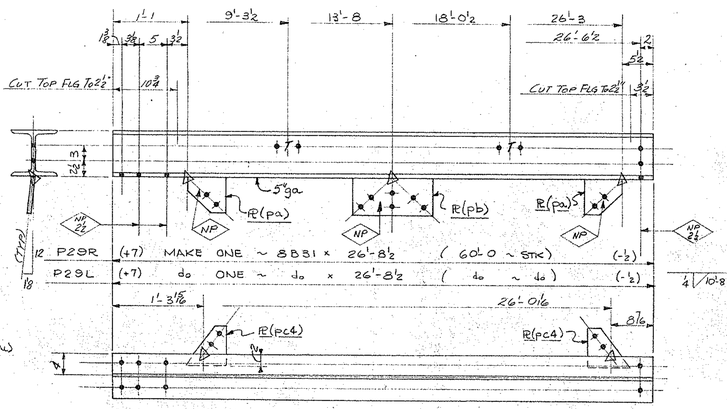
P26 (-⅜) MAKE 2 ~ 8B31 x 26'-1¼ (60'-0 ~ STK) (-⅜)

4 @ 10'-8 (TOTAL)

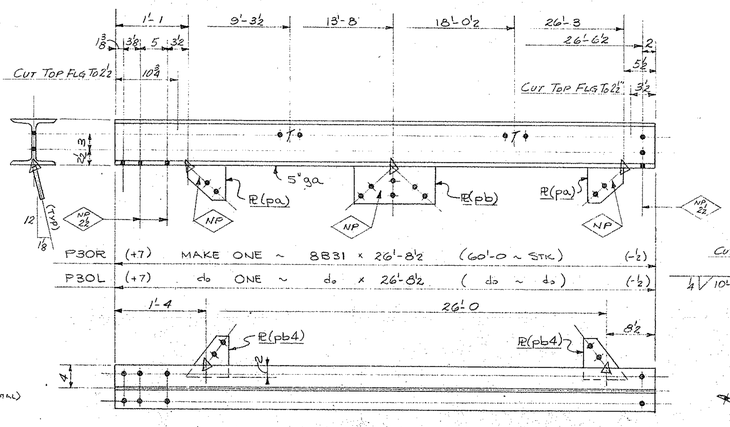


P27 (-⅜) MAKE 2 ~ 8B31 x 26'-1¼ (60'-0 ~ STK) (-⅜)

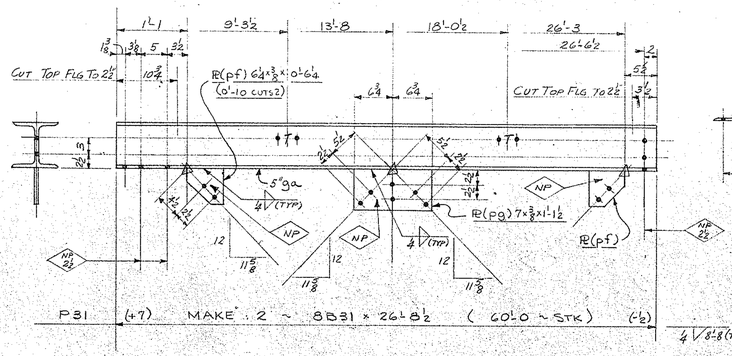
4 @ 10'-2 (TOTAL)



4 @ 10'-8 (TOTAL)

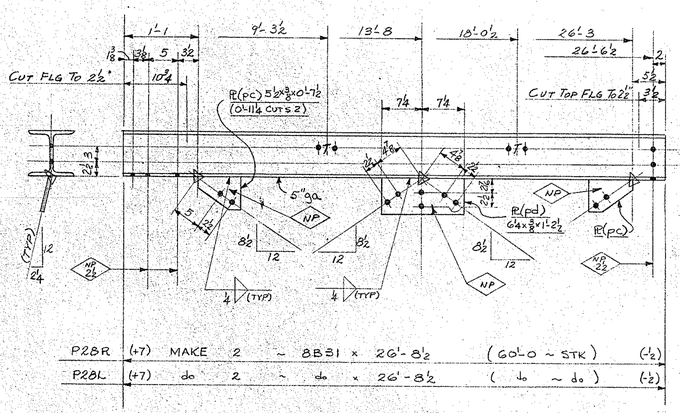


4 @ 10'-2 (TOTAL)



P31 (+7) MAKE 2 ~ 8B31 x 26'-8½ (60'-0 ~ STK) (-½)

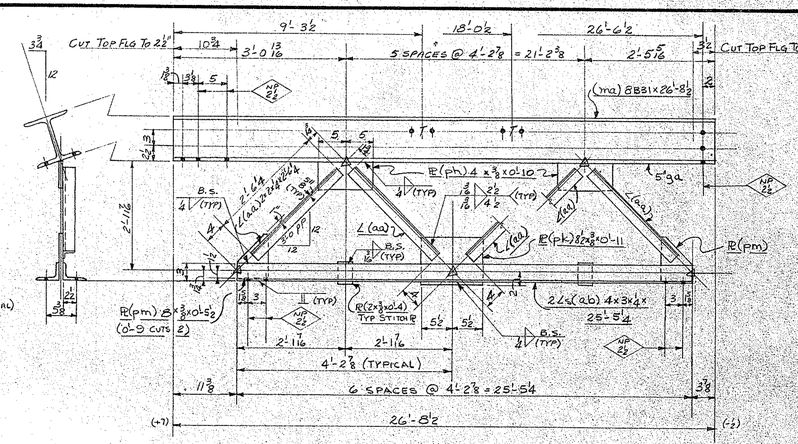
4 @ 8'-8 (TOTAL)



P28R (+7) MAKE 2 ~ 8B31 x 26'-8½ (60'-0 ~ STK) (-½)

P28L (+7) do 2 ~ do x 26'-8½ (do ~ do) (-½)

4 @ 19'-8 (TOTAL)



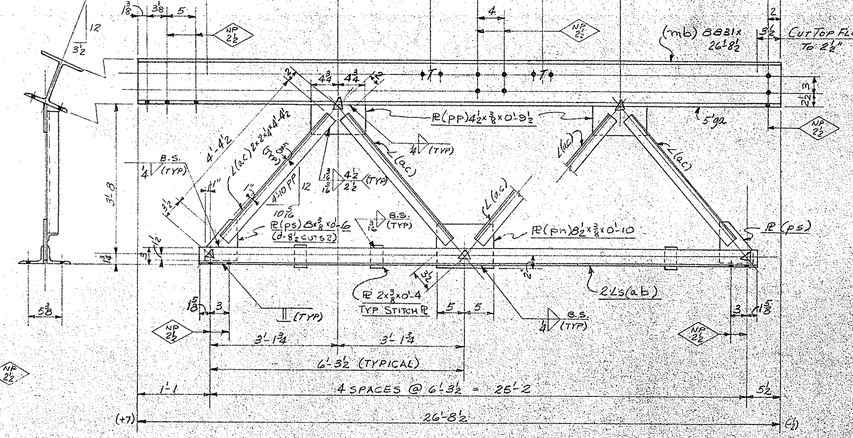
4 @ 60'-4 (TOTAL)

⅜ @ 56'-0 (TOTAL)

II 1'-10 (TOTAL)

MAKE ONE ~ STRUT ~ MARK MIR

do ONE ~ do ~ do MIL



MAKE ONE ~ STRUT ~ MARK M2R

do ONE ~ do ~ do M2L

4 @ 40'-6 (TOTAL) ⅜ @ 29'-4 (TOTAL) II 1'-11 (TOTAL)

REQUIRED LIST

NO REQ'D	DESC	MARK	NO REQ'D	DESC	MARK
2	PURLINS	P26	1	PURLIN	P30L
2	"	P27	2	do	P31
2		P28R	1	STRUT	M1R
2		P28L	1		M1L
1		P29R	1		M2R
1		P29L	1		M2L
/		P30R			

RIVETS ~

OPEN HOLES 13/16"ø

REAM ~

MILLING ~

PAINT AS PER SPECS

WELDING AS SHOWN

SHOP CONTACT SURFACES NO PAINT

TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
B. SMITH	
MCH.	
ERECT.	
O. INSP.	

PURLINS & STRUTS

1954 SULK STORAGE

PORT OF LONGVIEW ~ LONGVIEW, WASH

BETHLEHEM PACIFIC COAST STEEL CORPORATION

FABRICATED STEEL CONSTRUCTION

SEATTLE DRAFTING ROOM SEATTLE WORKS

IN CHARGE A.L. MONDT MADE BY W.C.B. 5-12-54

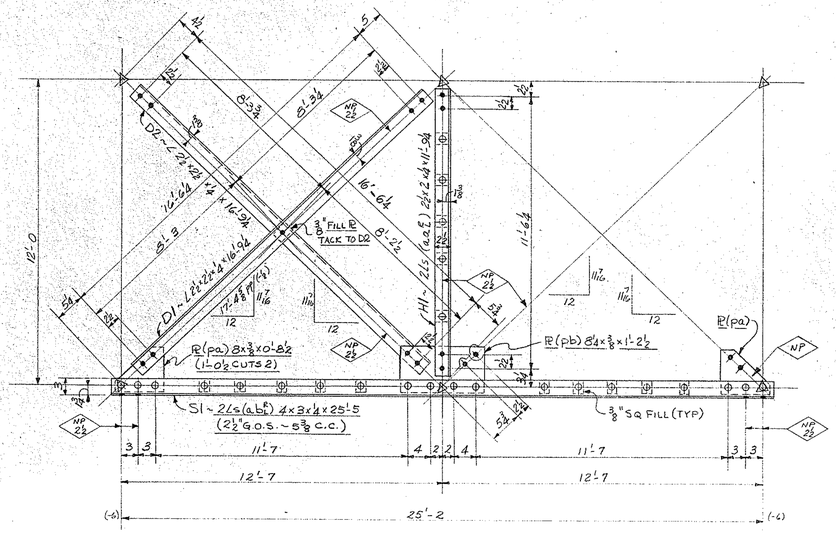
CHECKED BY C.E.A. 6-1-54 TRACED BY

REVISED LAST ASSEM. MK.

SHOP NO. CONTRACT CR 8103 SHEET 5

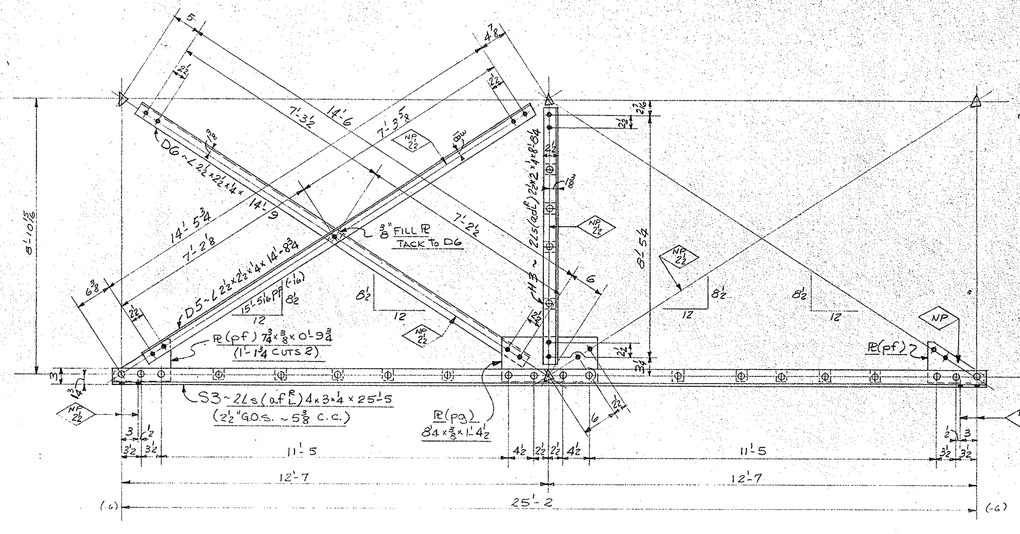
3200-2m-4.51-BSCo

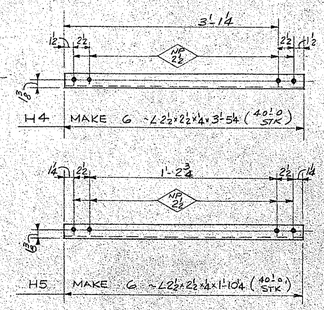
DRAWING NUMBER 874



MAKE 16 ~ DIAGONALS ~ MARK D1

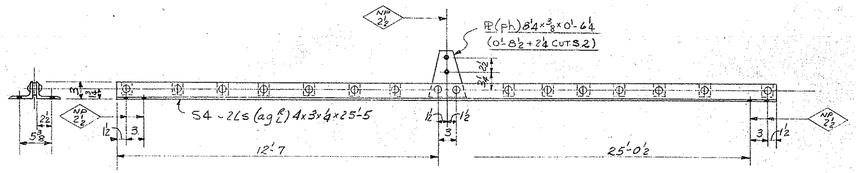
do	16	~	do	~	do D2
do	8	~ STRUTS ~		do	S1
do	16	~ HANGERS ~		do	H1





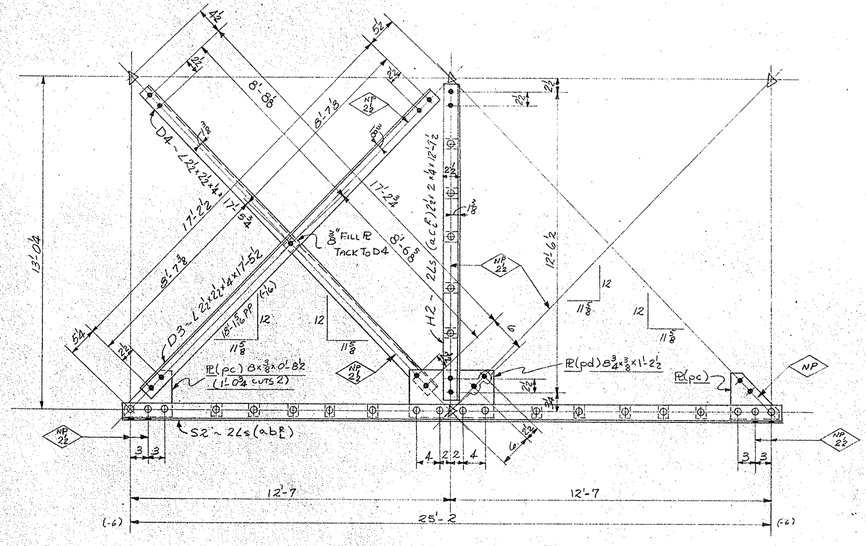
MAKE 8 ~ DIAGONALS ~ MARK D5

do	8	~	do	~	do D6
do	4	~ STRUTS ~		do	S3
do	16	~ HANGERS ~		do	H3



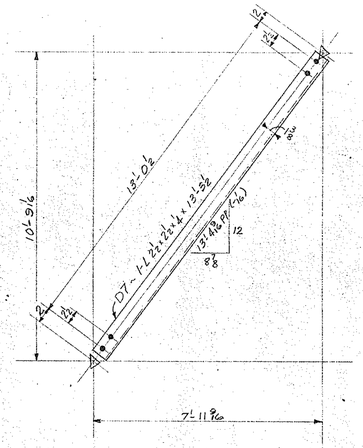
MAKE 38 ~ STRUTS ~ MARK S4

MAKE 16 ~ DIAGONALS ~ MARK D9

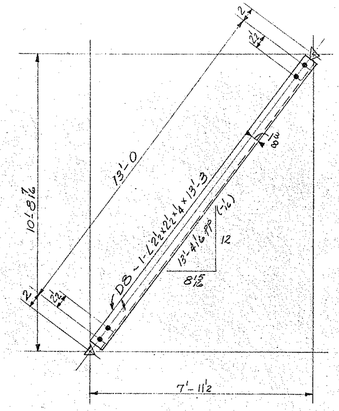


MAKE 4 ~ DIAGONALS ~ MARK D3

do	4	~	do	~	do D4
do	2	~ STRUTS ~		do	S2
do	8	~ HANGERS ~		do	H2



MAKE 16 ~ DIAGONALS ~ MARK D7



MAKE 16 ~ DIAGONALS ~ MARK D8

REQUIRED LIST

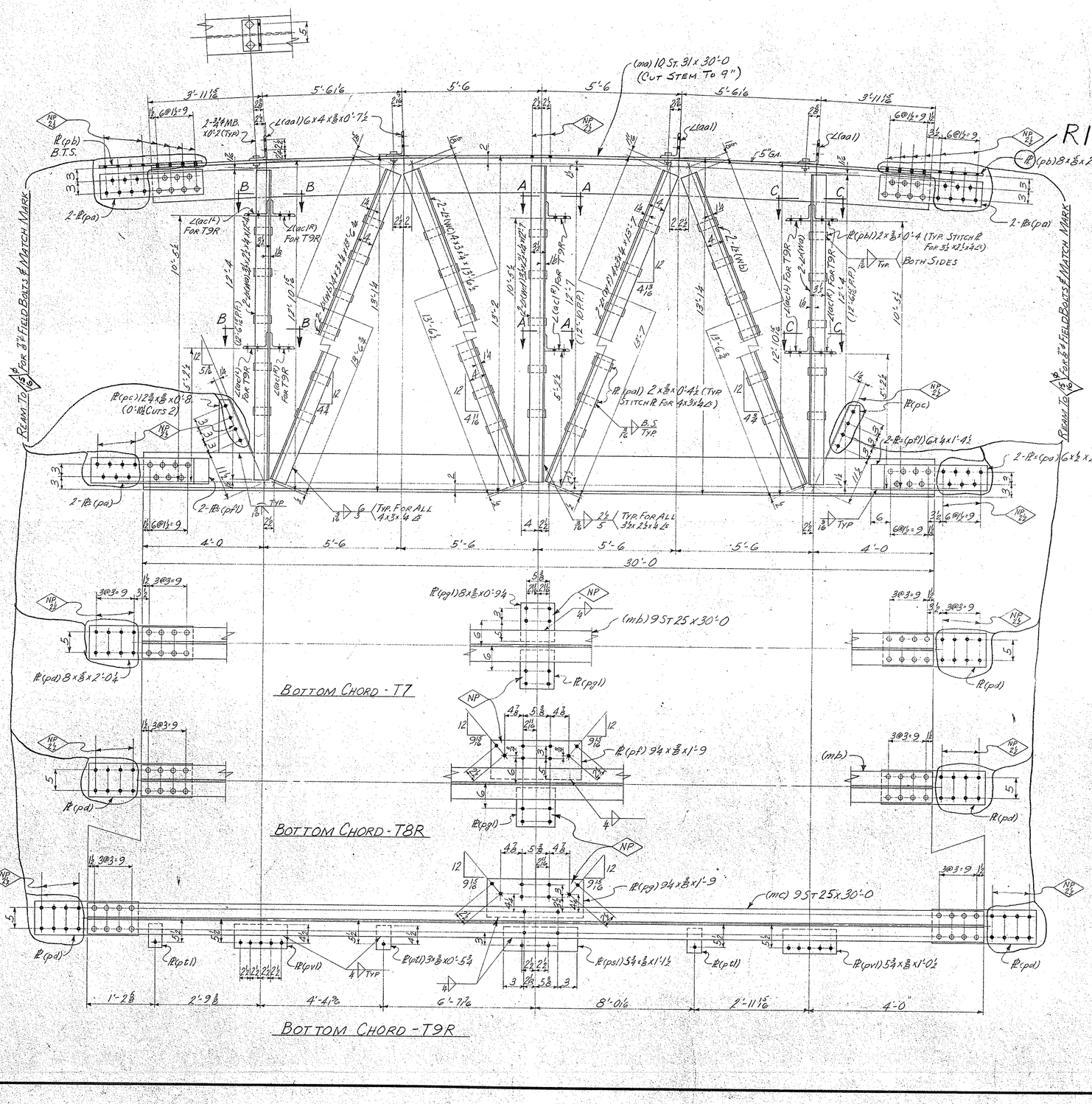
NO. REQ'D	DESC	MARK	NO REQ'D	DESC	MARK
16	DIAGONALS	D1	8	STRUTS	S1
16		D2	2		S2
4		D3	4		S3
4		D4	38		S4
8		D5	16	HANGERS	H1
8		D6	8		H2
16		D7	16		H3
16		D8	6		H4
16		D9	6		H5

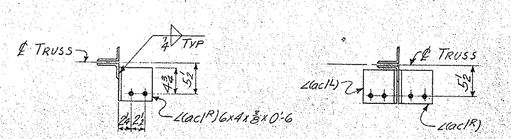
RIVETS ¾
OPEN HOLES 13/16
REAM ~
MILLING ~
PAINT AS PER SPECS
WELDING ~
SHOP CONTACT SURFACES NO PAINT

TEMP.	DIAGONALS ~ STRUTS ~ HANGERS
SUPT.	1954 BULK STORAGE
LAYOUT	PORT OF LONGVIEW ~ LONGVIEW, WASH.
FITTER	BETHLEHEM PACIFIC COAST STEEL CORPORATION
SHOP INSP.	FABRICATED STEEL CONSTRUCTION
PC. WK.	SEATTLE DRAFTING ROOM SEATTLE WORKS
B. SMITH	IN CHARGE A.L. MOUDT MADE BY W.C.B. 5-13-54
MCH.	CHECKED BY C.E.P. 5-28-54 TRACED BY
ERECT.	REVISED LAST ASSEM. MK.
O. INSP.	CONTRACT CR 8103 SHEET 6
	SHOP NO.

3200-2m-4.51-BSCo

DRAWING NUMBER B71



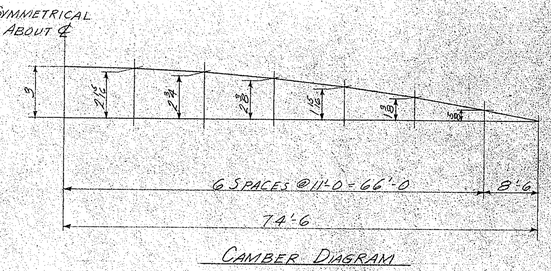


Section A-A
(For T9R)

Section B-B
Section C-C (Similar)
(For T9R)

Make - 5 Trusses Mark - T7
do - One do do - T8R
do - One do do - T8L
do - One do do - T9R
do - One do do - T9L

Total Weld
5/16 V 508'-6
1/4 V 52'-6
5/16 △ 12'-0



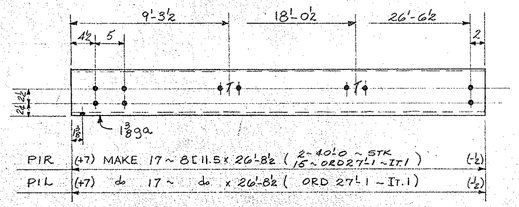
Camber Diagram

Rivets 3/4" ϕ
Open Holes 1/16 " As Noted
Ream Noted
Milling
Paint Zinc Chromate
Welding Noted
Shop Contact Surfaces No Paint

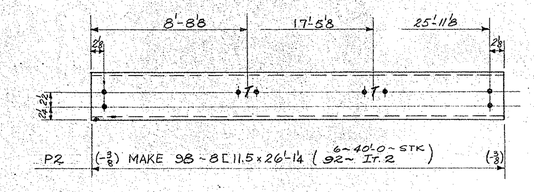
Temp.	Center Trusses
Supt.	1954 Bulk Storage
Layout	Port Of Longview, Longview, Wash.
Fitter	Bethlehem Pacific Coast Steel Corporation
Shop Insp.	Fabricated Steel Construction
PC. Wk.	Seattle Drafting Room Seattle Works
B. Smith	In Charge Mondt Made By Shandler 5/13
Mch.	Checked By C.E.P. 5-26-54 Traced By
Erect.	Revised R.I.-W.S. 5/27/54 Last Assem. Mk.
O. Insp.	Shop No. Contract CRS103 Sheet 3

3300-Sm-4-51-BSCo

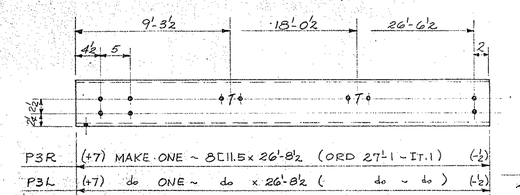
DRAWING NUMBER B72



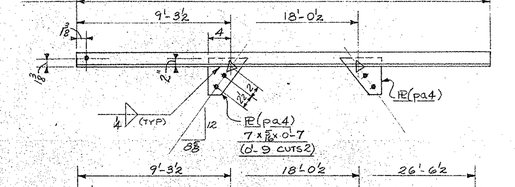
P1R (47) MAKE 17 ~ 8 [11.5 × 26'-8½ (2 ~ 40'-0 ~ STK / 15 ~ ORD 27'-1 ~ IT.1) (-½)
P1L (47) do 17 ~ do × 26'-8½ (ORD 27'-1 ~ IT.1) (-½)

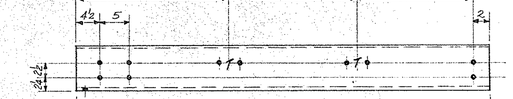


P2 (-⅜) MAKE 98 ~ 8 [11.5 × 26'-1¼ (92 ~ 6 ~ 40'-0 ~ STK / IT.2) (-⅜)

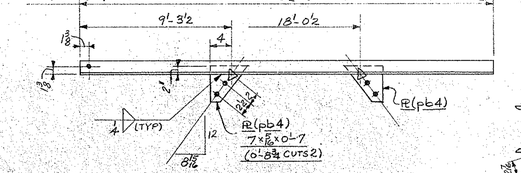


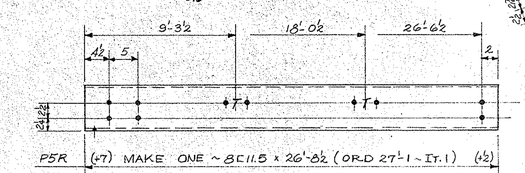
P3R (47) MAKE ONE ~ 8 [11.5 × 26'-8½ (ORD 27'-1 ~ IT.1) (-½)
P3L (47) do ONE ~ do × 26'-8½ (do ~ do) (-½)



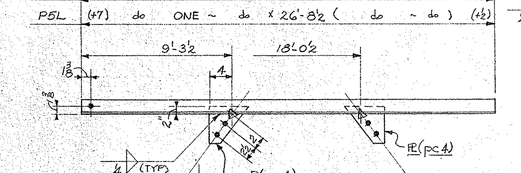


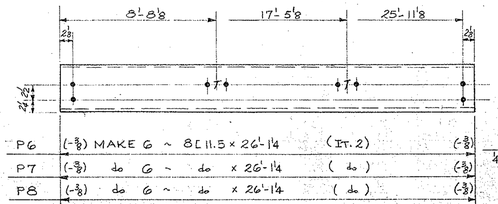
P4R (47) MAKE ONE ~ 8 [11.5 × 26'-8½ (ORD 27'-1 ~ IT.1) (-½)
P4L (47) do ONE ~ do × 26'-8½ (do ~ do) (-½)





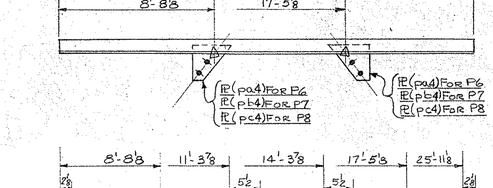
P5R (47) MAKE ONE ~ 8 [11.5 × 26'-8½ (ORD 27'-1 ~ IT.1) (-½)
P5L (47) do ONE ~ do × 26'-8½ (do ~ do) (-½)

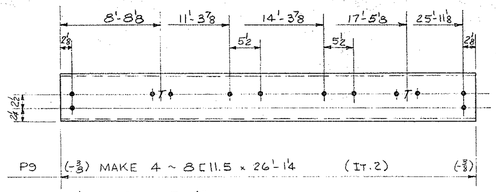




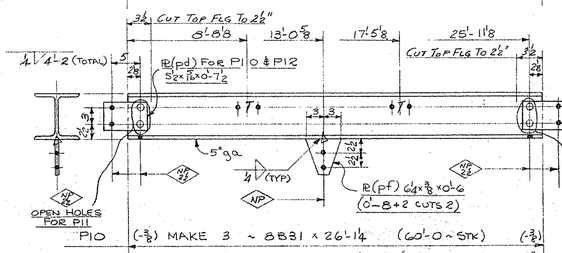
P6 (-⅜) MAKE 6 ~ 8 [11.5 × 26'-1¼ (IT.2) (-⅜)
P7 (-⅜) do 6 ~ do × 26'-1¼ (do) (-⅜)
P8 (-⅜) do 6 ~ do × 26'-1¼ (do) (-⅜)

(TOTAL) 4 | 37'-6



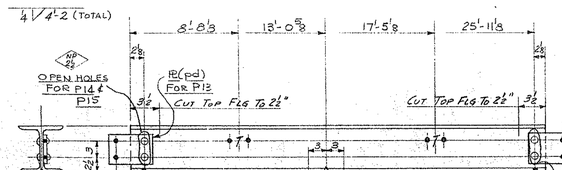


P9 (-⅜) MAKE 4 ~ 8 [11.5 × 26'-1¼ (IT.2) (-⅜)



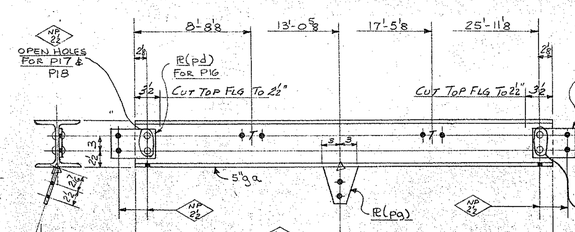
P10 (-⅜) MAKE 3 ~ 8B31 × 26'-1¼ (60'-0 ~ STK) (-⅜)
P11 (-⅜) do 2 ~ do × 26'-1¼ (do ~ do) (-⅜)
P12 (-⅜) do ONE ~ do × 26'-1¼ (do ~ do) (-⅜)

4 | 4'-2 (TOTAL)



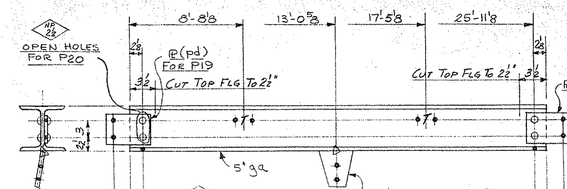
P13 (-⅜) MAKE 6 ~ 8B31 × 26'-1¼ (60'-0 ~ STK) (-⅜)
P14 (-⅜) do 4 ~ do × 26'-1¼ (do ~ do) (-⅜)
P15 (-⅜) do 2 ~ do × 26'-1¼ (do ~ do) (-⅜)

4 | 4'-2 (TOTAL)

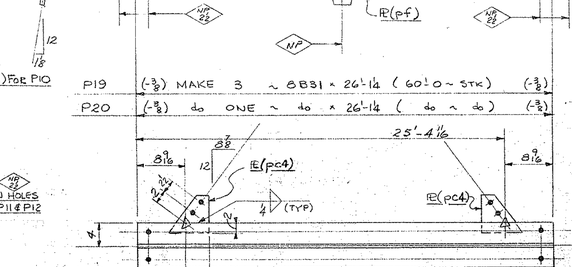


P16 (-⅜) MAKE 3 ~ 8B31 × 26'-1¼ (60'-0 ~ STK) (-⅜)
P17 (-⅜) do 2 ~ do × 26'-1¼ (do ~ do) (-⅜)
P18 (-⅜) do ONE ~ do × 26'-1¼ (do ~ do) (-⅜)

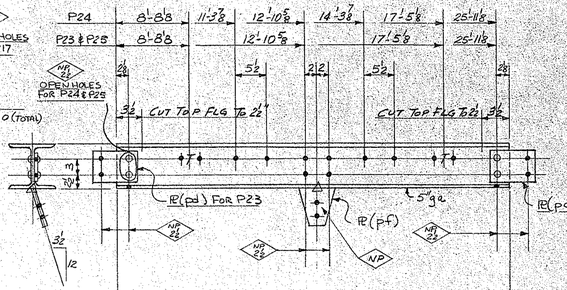
4 | 6'-0 (TOTAL)



P19 (-⅜) MAKE 3 ~ 8B31 × 26'-1¼ (60'-0 ~ STK) (-⅜)
P20 (-⅜) do ONE ~ do × 26'-1¼ (do ~ do) (-⅜)

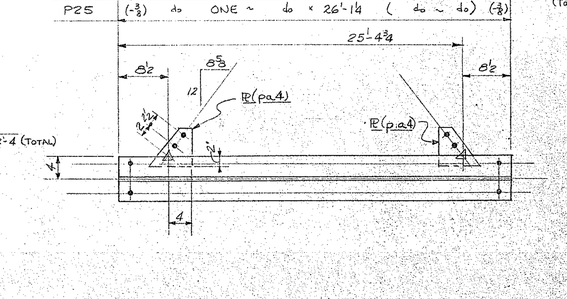


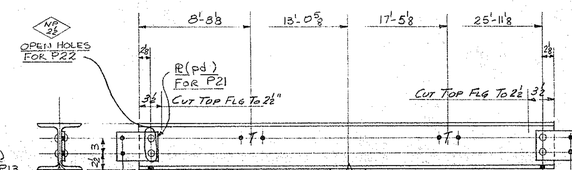
4 | 12'-4 (TOTAL)



P23 (-⅜) MAKE ONE ~ 8B31 × 26'-1¼ (60'-0 ~ STK) (-⅜)
P24 (-⅜) do 4 ~ do × 26'-1¼ (do ~ do) (-⅜)
P25 (-⅜) do ONE ~ do × 26'-1¼ (do ~ do) (-⅜)

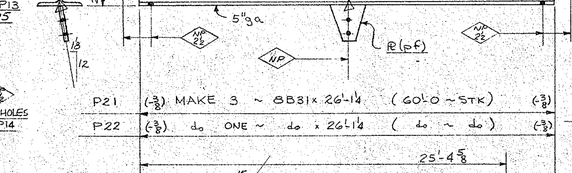
4 | 18'-6 (TOTAL)





P21 (-⅜) MAKE 3 ~ 8B31 × 26'-1¼ (60'-0 ~ STK) (-⅜)
P22 (-⅜) do ONE ~ do × 26'-1¼ (do ~ do) (-⅜)

4 | 12'-4 (TOTAL)



4 | 12'-0 (TOTAL)

REQUIRED LIST					
NO REQ'D	DESC	MARK	NO REQ'D	DESC	MARK
17	PURLINS	P1R	1	PURLIN	P12
17		P1L	6		P13
98		P2	4		P14
1		P3R	2		P15
1		P3L	3		P16
1		P4R	2		P17
1		P4L	1		P18
1		P5R	3		P19
1		P5L	1		P20
6		P6	3		P21
6		P7	1		P22
6		P8	1		P23
4		P9	4		P24
3		P10	1		P25
2		P11			

RIVETS ¾" ϕ
OPEN HOLES 13/16" ϕ
REAM ~
MILLING ~
PAINT AS PER SPECS.
WELDING AS SHOWN
SHOP CONTACT SURFACES NO PAINT

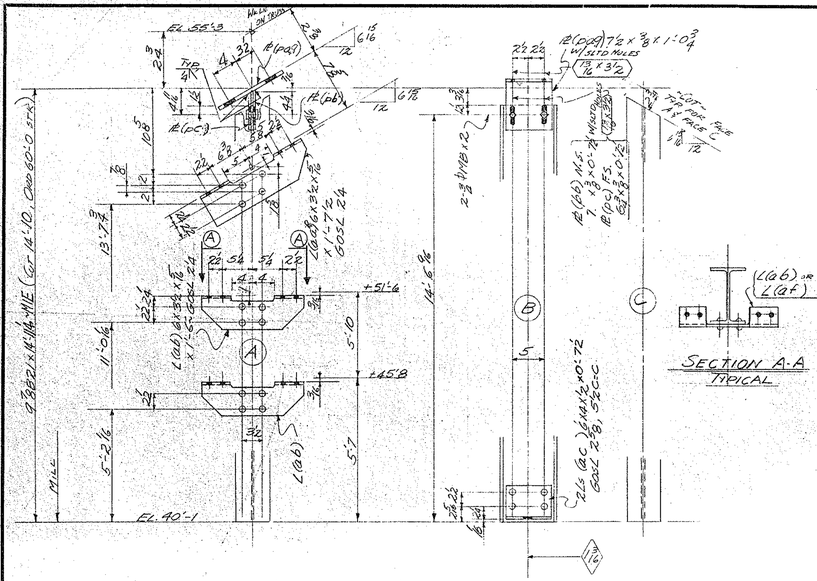
SHOP NO.

TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PG. WK.	
B. SMITH	
MCH.	
ERECT.	
O. INSP.	

PURLINS
1954 BULK STORAGE
PORT OF LONGVIEW, LONGVIEW, WASH
BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS
IN CHARGE A.L. Mondt MADE BY W.C.B. 5-10-54
CHECKED BY C.E.P. 5-27-54 TRACED BY
REVISED LAST ASSEM. MK.
CONTRACT CR 8103 SHEET 4

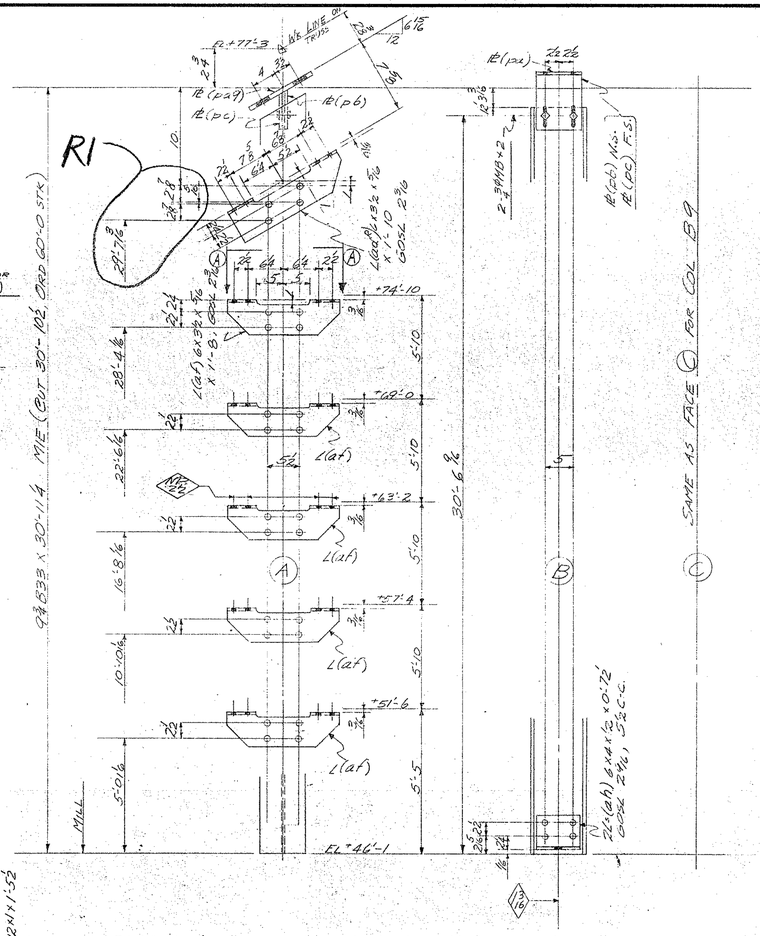
3200-Dm-4.51-BSCo

DRAWING NUMBER 877



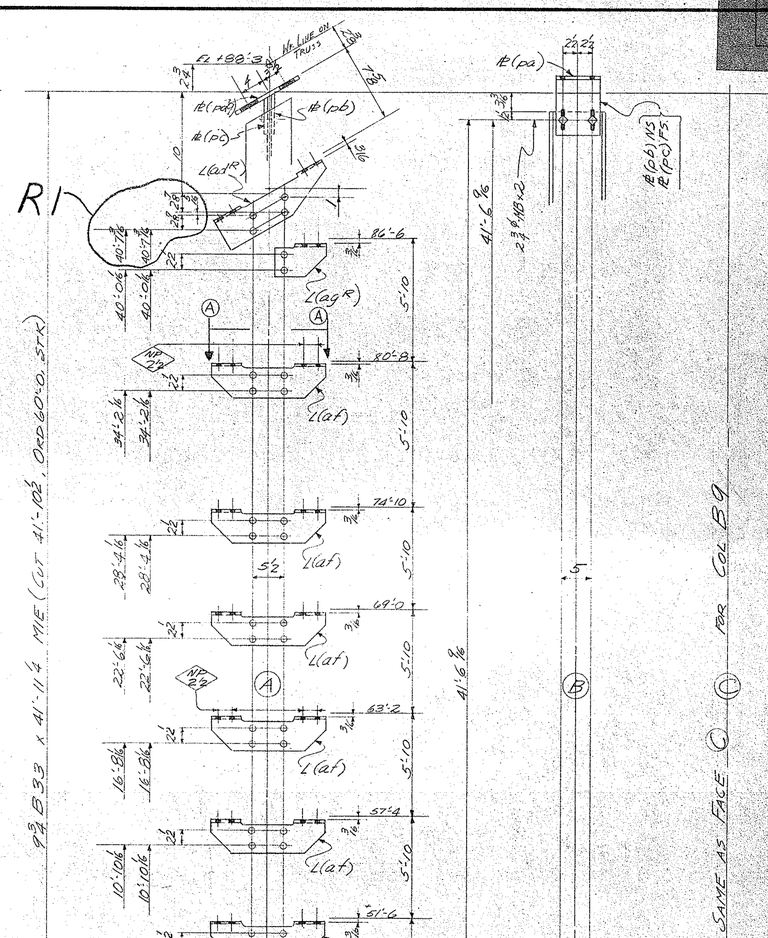
ONE COL B9 ~ MARK FACE (A) WEST
ONE do B1 ~ do do (A) EAST (OPP HAND)

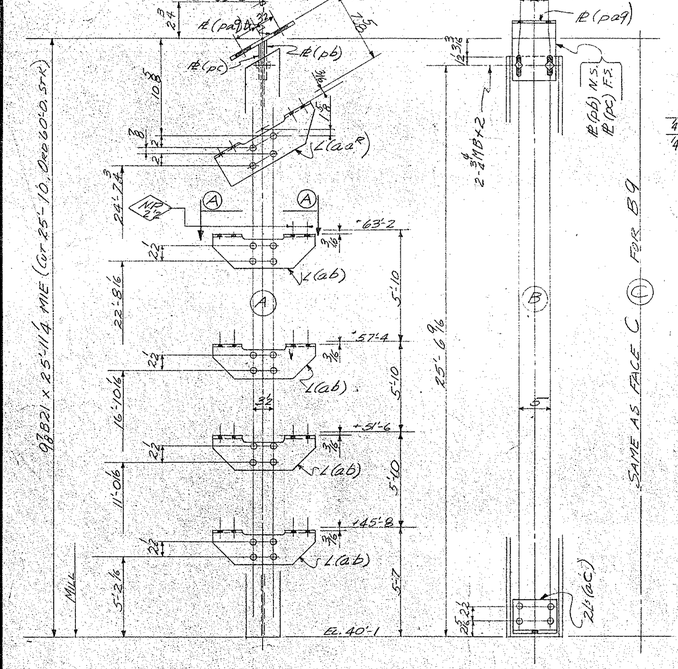
4 \ 1'-3 Each



ONE COL D9 ~ MARK FACE (A) WEST
ONE do D1 ~ do do (A) EAST (OPP HAND)

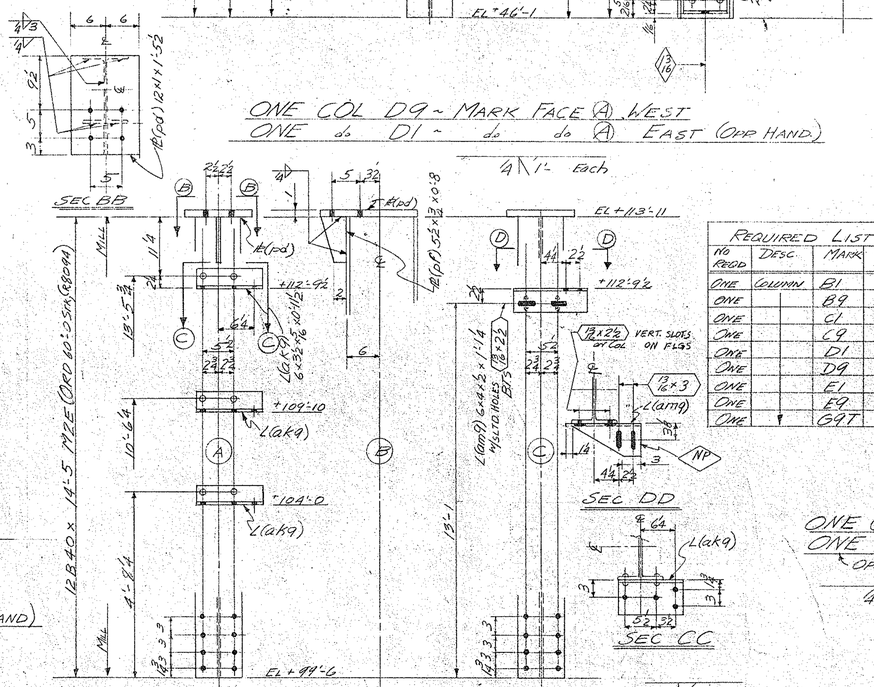
4 \ 1'- Each





ONE COL C9 ~ MARK FACE (A) WEST
ONE COL C1 ~ do do (A) EAST (OPP HAND)

4 \ 1'-3 Each



ONE COL G9T MARK FACE (A) WEST

4 \ 4'-0

REQUIRED LIST

NO REQD	DESC.	MARK
ONE	COLUMN	B1
ONE		B9
ONE		C1
ONE		C9
ONE		D1
ONE		D9
ONE		E1
ONE		E9
ONE		G9T

ONE COL E9 ~ MARK FACE (A) WEST
ONE do E1 ~ do do (A) EAST
OPP HAND TO SKETCH

4 \ 1'-3 Each

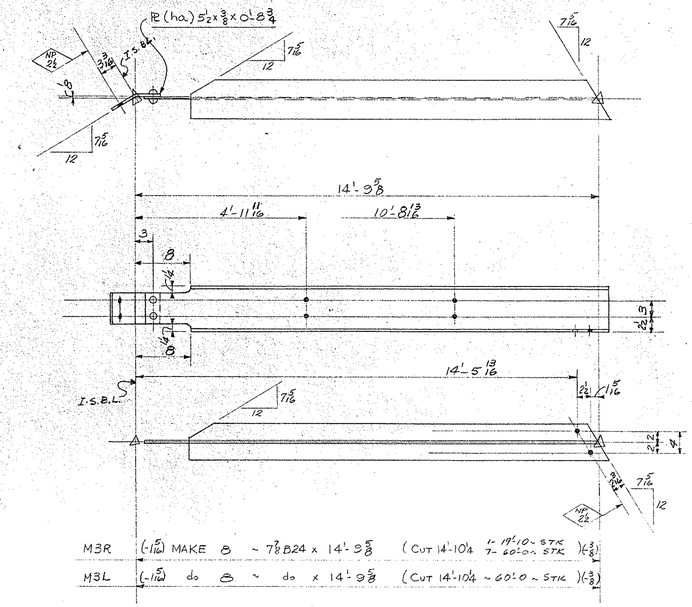
RIVETS 3/4 ϕ
OPEN HOLES 13/16 ϕ As Noted
REAM
MILLING As Noted
PAINT Zinc Chromate
WELDING As Noted
SHOP CONTACT SURFACES No Paint

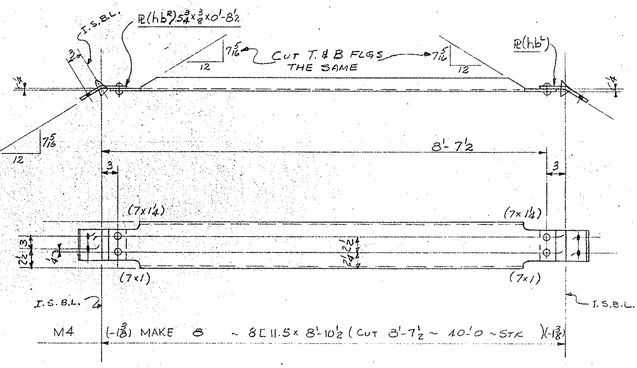
TEMP.	COLUMNS ~ EAST & WEST WALL
SUPT.	1954 BULK STORAGE
LAYOUT	PART OF LONGVIEW, LONGVIEW, WASH.
FITTER	
SHOP INSP.	BETHLEHEM PACIFIC COAST STEEL CORPORATION
PC. WK.	FABRICATED STEEL CONSTRUCTION
B. SMITH	SEATTLE DRAFTING ROOM SEATTLE WORKS
MCH.	IN CHARGE A.L. Marriott MADE BY W.C.T 5-20-54
ERECT.	CHECKED BY W.S. 5-21-54 TRACED BY
O. INSP.	REVISED R1-W.S. 6/17/54 LAST ASSEM. MK.

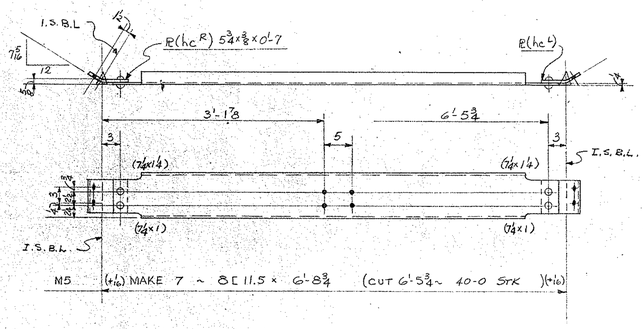
SHOP NO. CONTRACT CR 8103 SHEET 9

	a	b	c
a			
b			
c			
d			
f			
g			
h			
k			
m			
p			
s			
t			
v			
w			

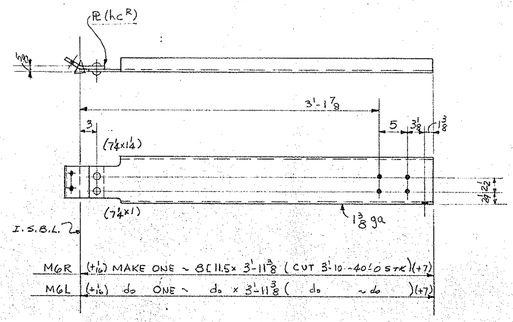
DRAWING NUMBER 876

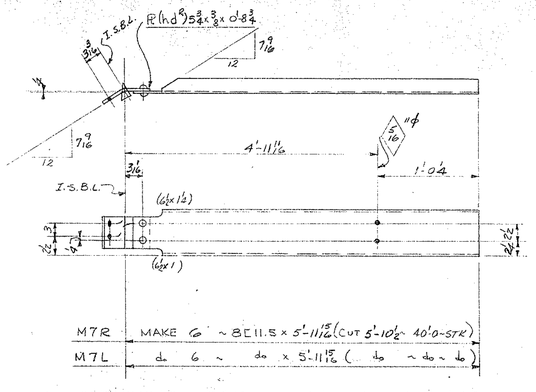


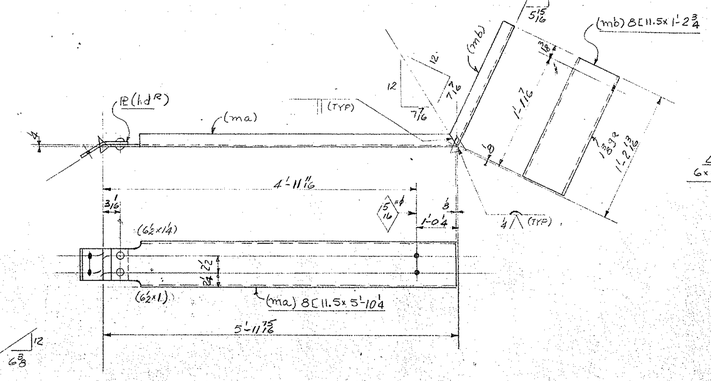




CRIMPING DIAGRAM FOR M5

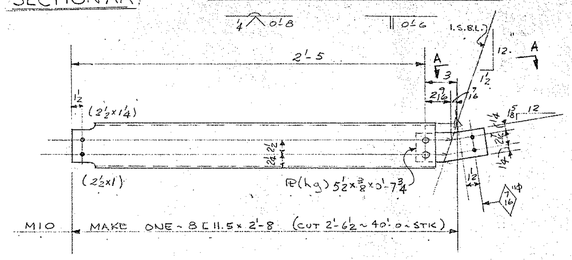


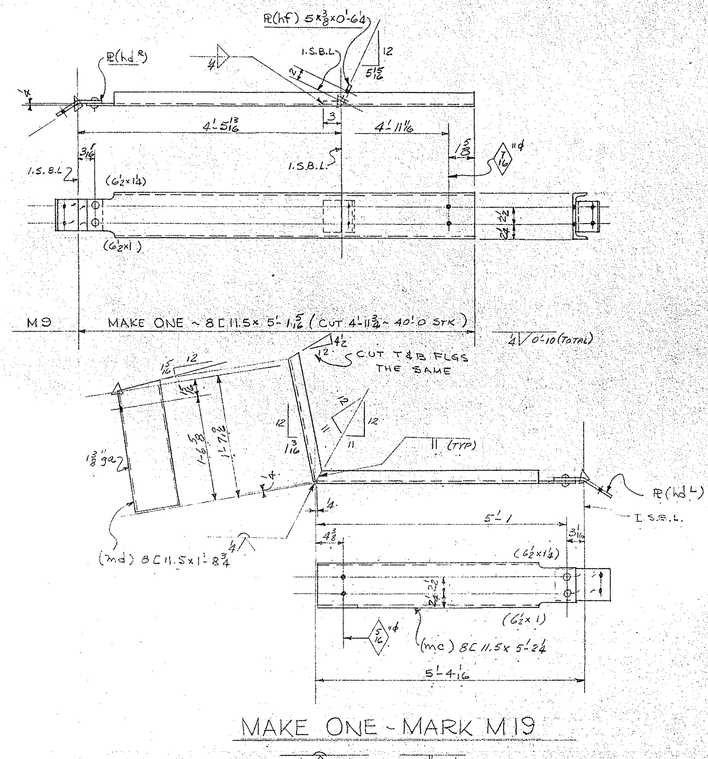




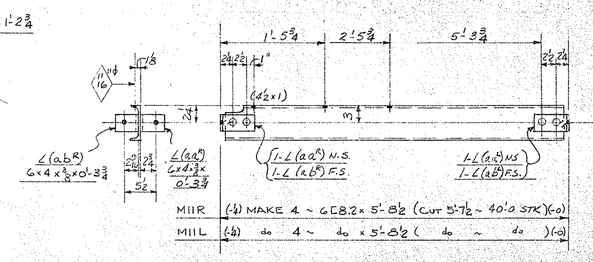
SECTION AA

MAKE ONE ~ MARK M8





MAKE ONE ~ MARK M19



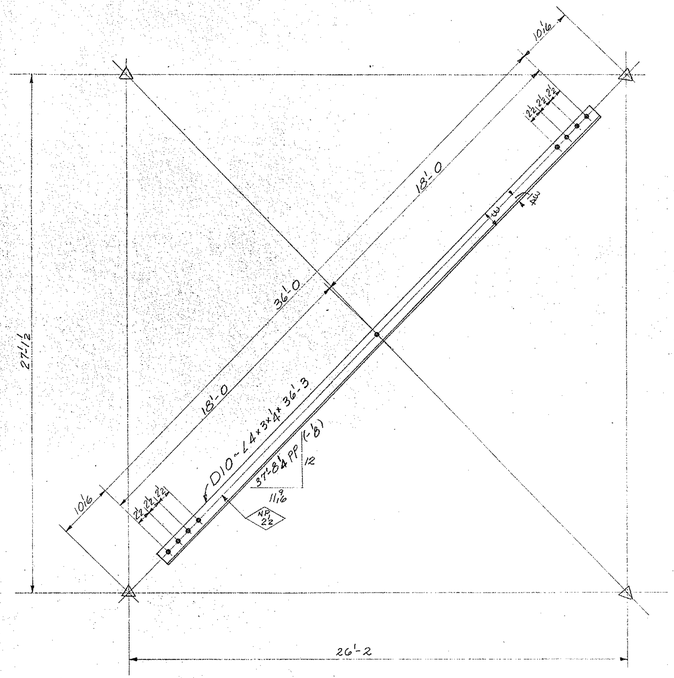
REQUIRED LIST		
NO. REQ'D	DESC.	MARK
8	MISC.	M3R
8		M3L
8		M4
7		M5
1		M6R
1		M6L
6		M7R
6		M7L
1		M8
1		M9
1		M10
4		M11R
4		M11L
1		M19

RIVETS ¾"ϕ
OPEN HOLES 13/16"ϕ & NOTED
REAM ~
MILLING ~
PAINT AS PER SPECS
WELDING AS SHOWN
SHOP CONTACT SURFACES NO PAINT

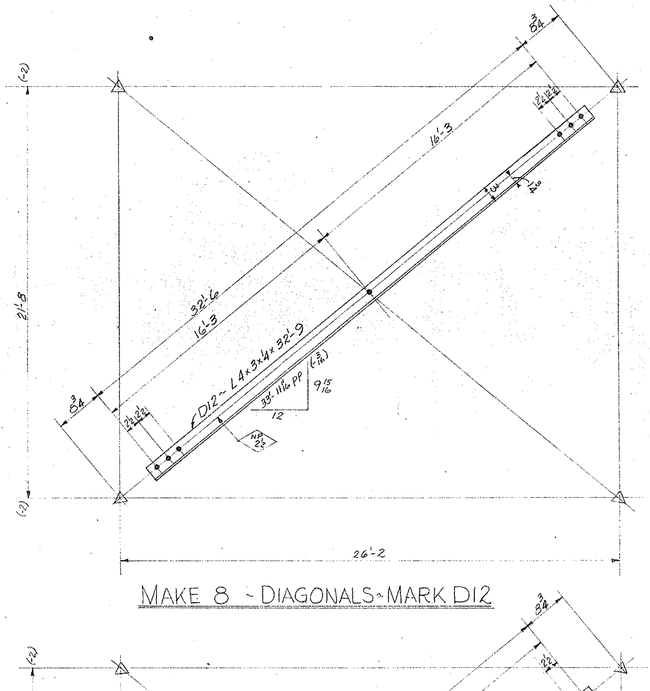
TEMP.	MISC. DETAILS
SUPT.	1954 BULK STORAGE
LAYOUT	PORT OF LONGVIEW; LONGVIEW, WASH
FITTER	BETHLEHEM PACIFIC COAST STEEL CORPORATION
SHOP INSP.	FABRICATED STEEL CONSTRUCTION
PL. WK.	SEATTLE DRAFTING ROOM SEATTLE WORKS
B. SMITH	IN CHARGE A.L. MONDT MADE BY W.C.B 5-17-54
MCH.	CHECKED BY C.E.P. 6-7-54 TRACED BY
ERECT.	REVISED LAST ASSEM. MK.
O. INSP.	SHOP NO. CONTRACT CR 8103 SHEET 8

3200-2m-4.51-BSCo

DRAWING NUMBER 875

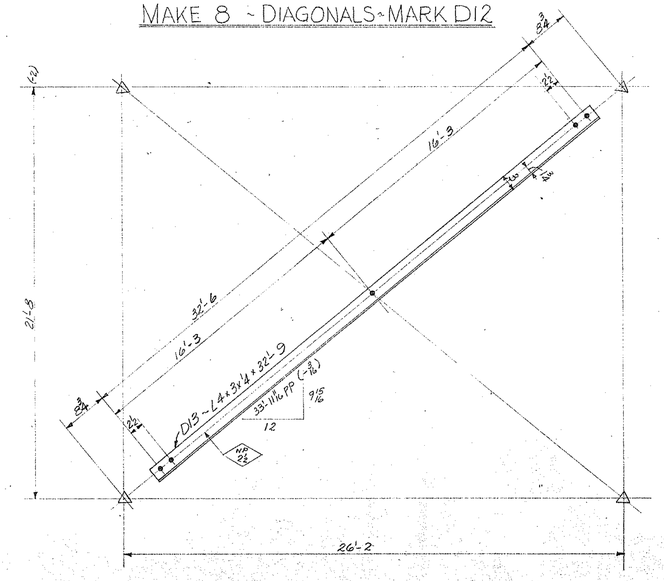


MAKE 4 ~ DIAGONALS ~ MARK D10



MAKE 8 ~ DIAGONALS ~ MARK D12

MAKE 4 ~ DIAGONALS ~ MARK D11



MAKE 8 ~ DIAGONALS ~ MARK D13

REQUIRED LIST		
NO REQ'D	DESC.	MARK
4	DIAGS	D10
4		D11
8		D12
8		D13

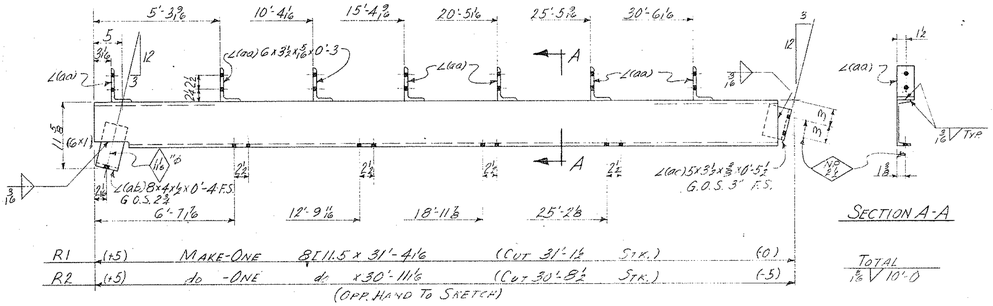
RIVETS ——
OPEN HOLES 13/16 d
REAM ——
MILLING ——
PAINT AS PER SPEC
WELDING ——
SHOP CONTACT SURFACES ——

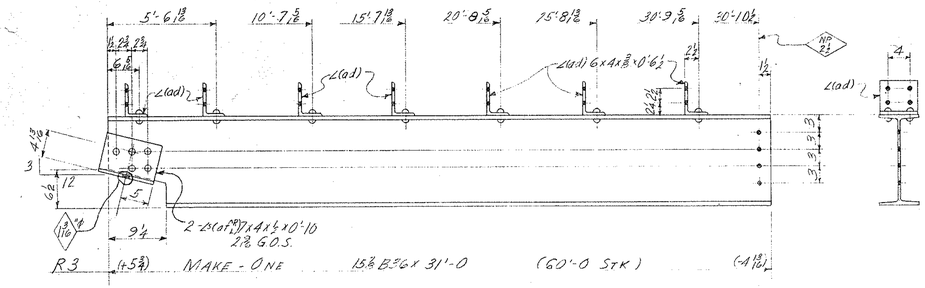
TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
B. SMITH	
MCH.	
ERECT.	
O. INSP.	

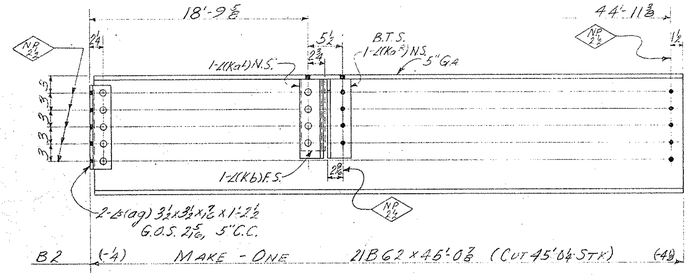
DIAGONALS
1954 BULK STORAGE
PORT OF LONGVIEW ~ LONGVIEW, WASH
BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS
IN CHARGE A.L. MOUDT MADE BY W.C.B. 5-14-54
CHECKED BY C.E.P. 5-27-54 TRACED BY
REVISED LAST ASSEM. MK.
SHOP NO. CONTRACT CR 8105 SHEET 7

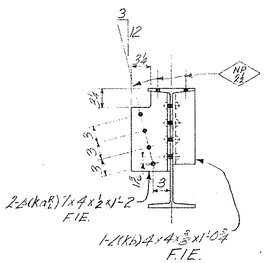
3200-2-ss-4.51-BSCo

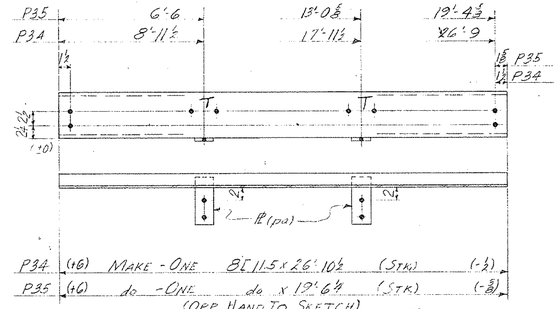
DRAWING NUMBER 679

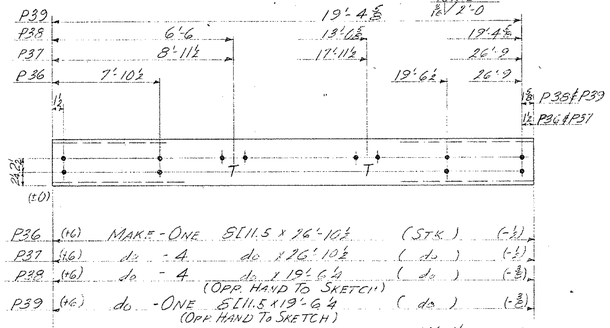


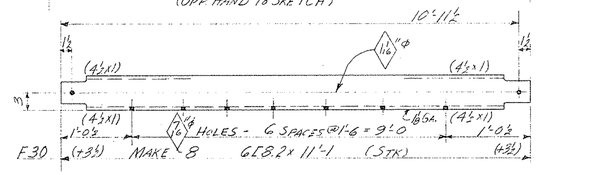


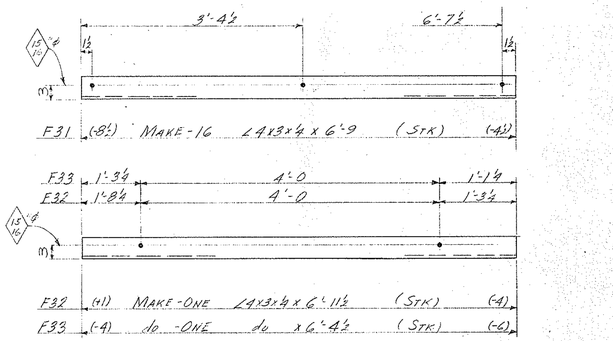


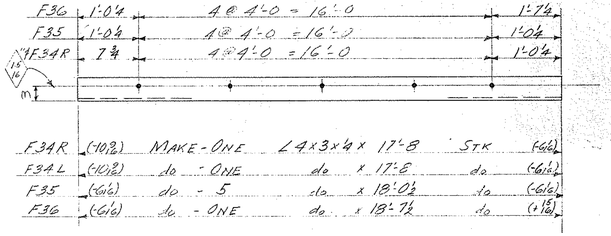


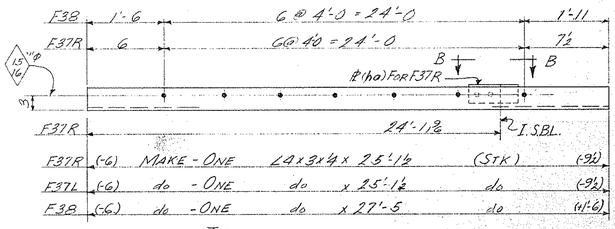


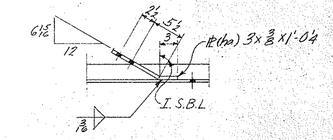


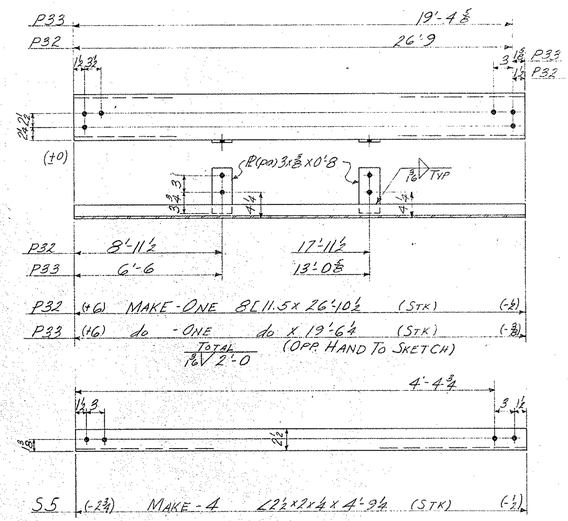


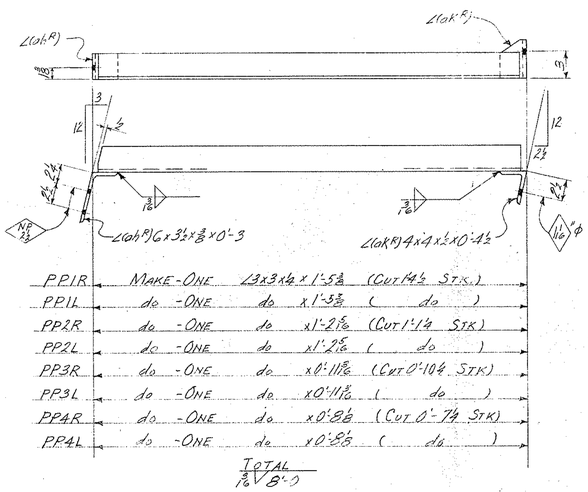












REQUIRED LIST		
No.	DESC.	MARK
1	RAFTER	R1
1		R2
1		R3
1	BEAM	B2
1	PURLIN	P32
1		P33
1		P34
1		P35
1		P36
4		P37
4		P38
4	STRUTS	S5
1	POST	PP1R
1		PP1L
1		PP2R
1		PP2L
1		PP3R
1		PP3L
1		PP4R
1		PP4L
8	GIRTS	F30
16		F31
1		F32
1		F33
1		F34R
1		F34L
5		F35
1		F36
1		F37R
1		F37L
1		F38
1	PURLIN	P39

RIVETS ⅞" ϕ
OPEN HOLES 15/16" ϕ AS NOTED
REAM ——
MILLING ——
PAINT ZINC CHROMATE
WELDING NOTED
SHOP CONTACT SURFACES NO PAINT

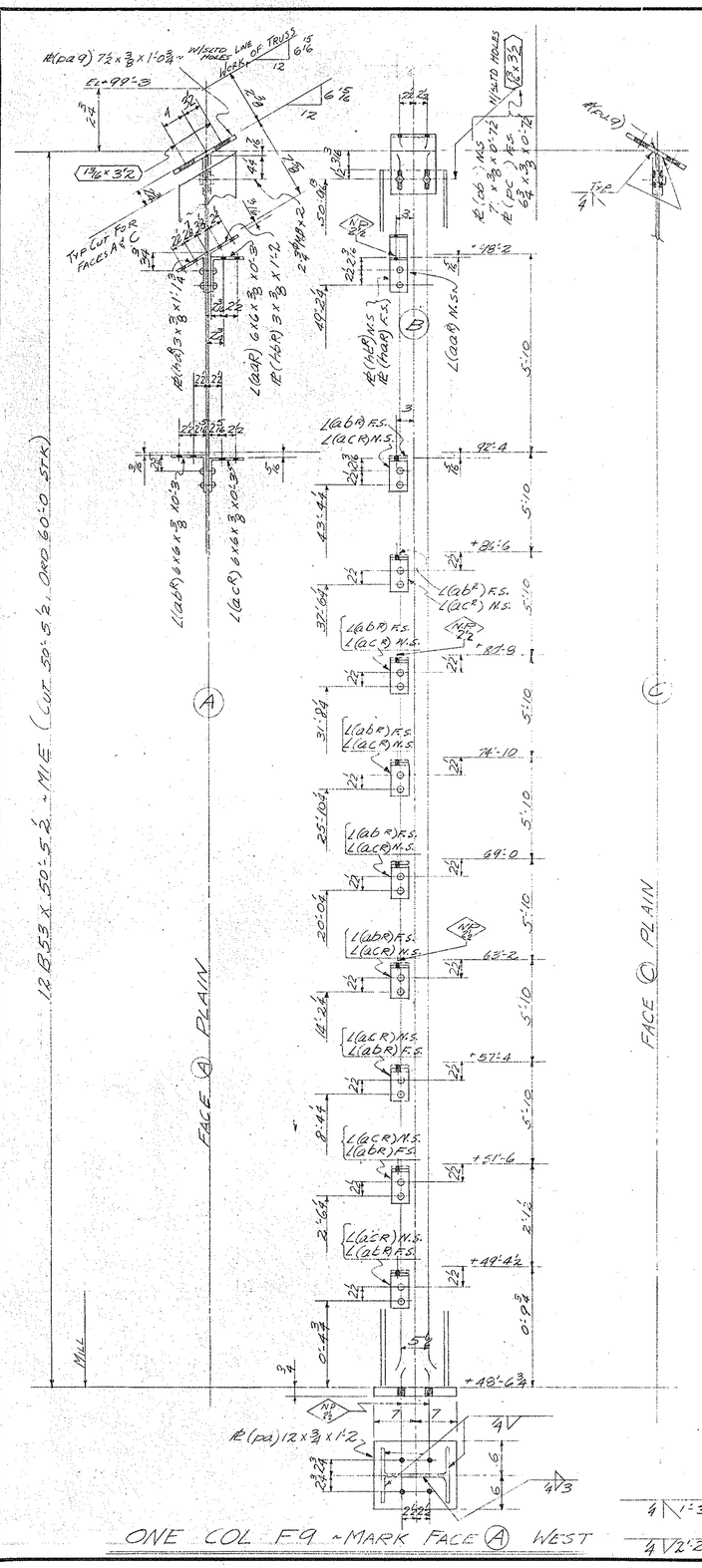
SHOP NO. ——

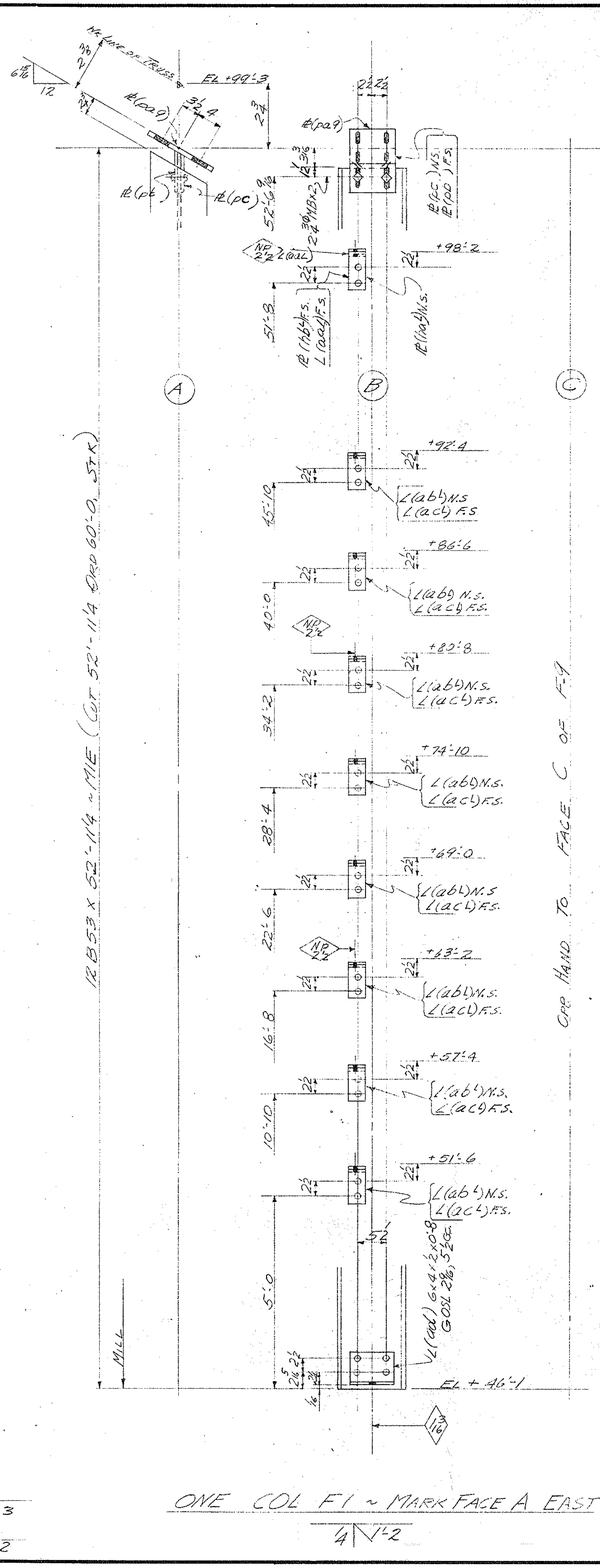
TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
S. SMITH	
MCH.	
ERECT.	
O. INSP.	

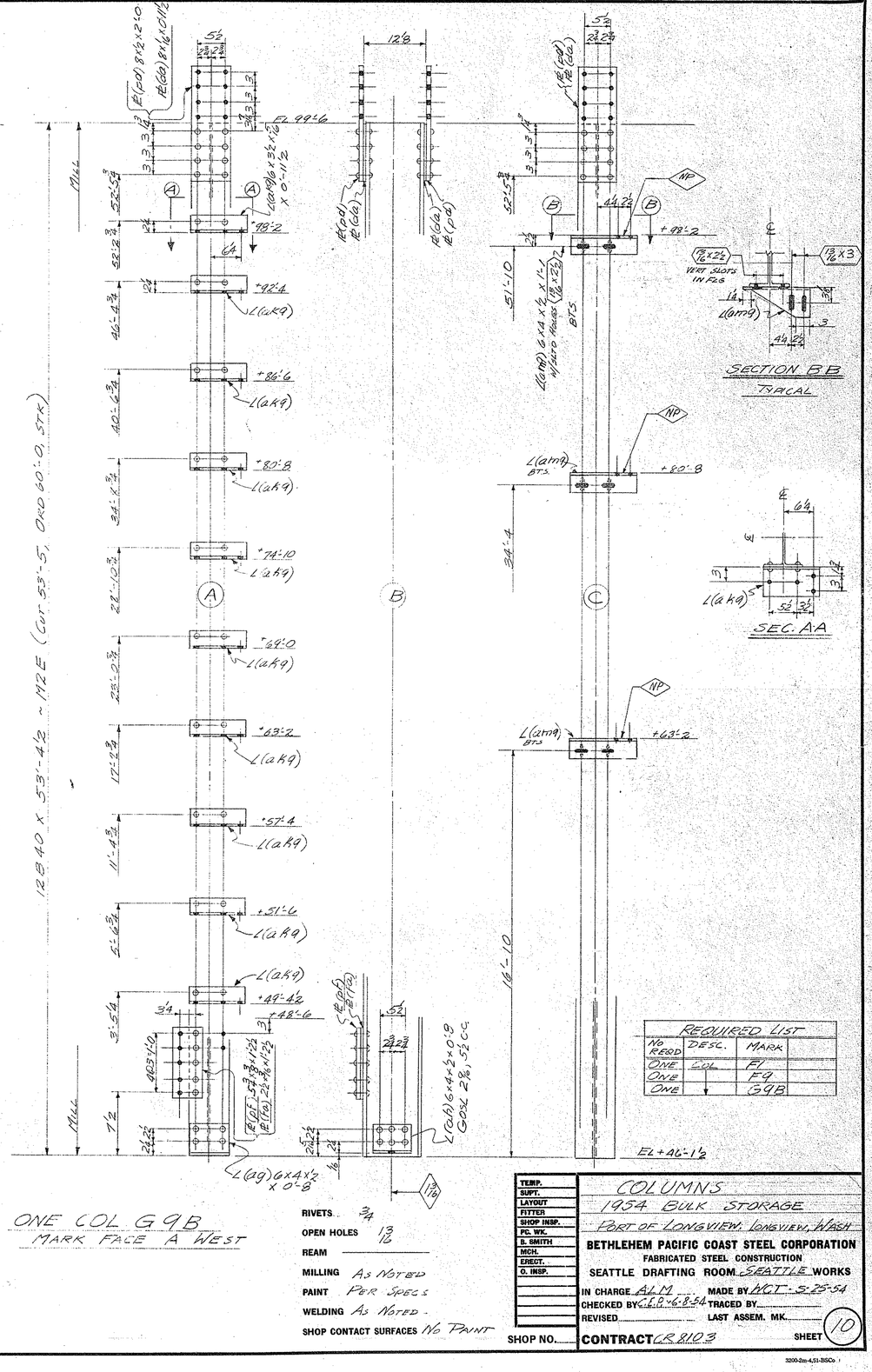
LEANTO & GIRTS
1954 BULK STORAGE
PORT OF LONGVIEW, LONGVIEW, WASH.
BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS
IN CHARGE MONDT MADE BY SHINDLER 5-27-54
CHECKED BY C.E.P. 6-10-54 TRACED BY ——
REVISED —— LAST ASSEM. MK. ——
CONTRACT CR5103 SHEET 11

3200-2m-4.51-BSCo

878







REQUIRED LIST		
No REQD	DESC.	MARK
ONE	COL	F1
ONE		F9
ONE		G9B

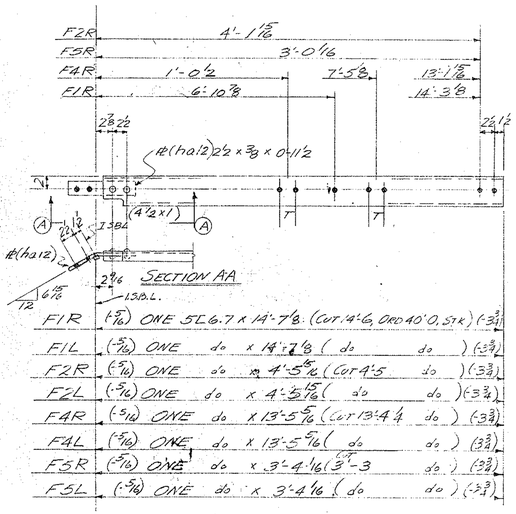
RIVETS ¾
OPEN HOLES 13/16
REAM
MILLING AS NOTED
PAINT PER SPECS
WELDING AS NOTED
SHOP CONTACT SURFACES NO PAINT

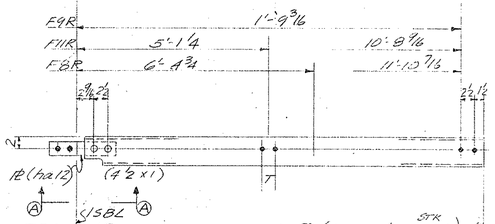
TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
B. SMITH	
MCH.	
ERECT.	
O. INSP.	

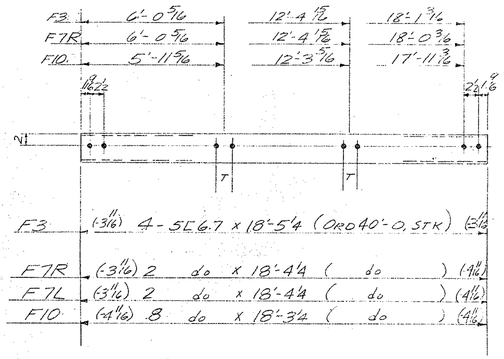
COLUMNS
1954 BULK STORAGE
PORT OF LONGVIEW, LONGVIEW, WASH
BETHLEHEM PACIFIC COAST STEEL CORPORATION
FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS
IN CHARGE A.L.M. MADE BY M.C.T. 5-25-54
CHECKED BY C.L.P. 6-8-54 TRACED BY
REVISED LAST ASSEM. MK.
SHOP NO.
CONTRACT CR 8103
SHEET 10

3200-2m-4,51-3SCo

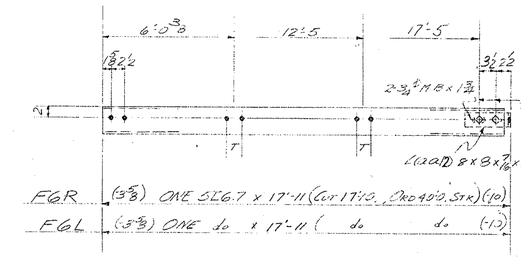
680

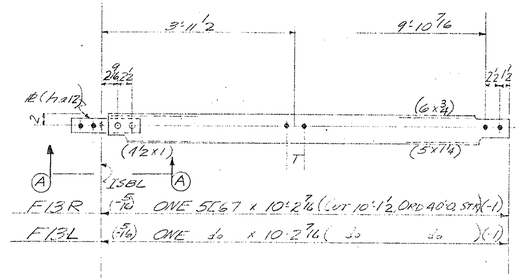


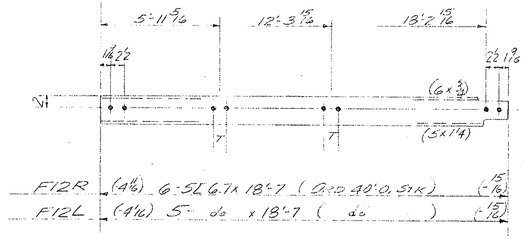


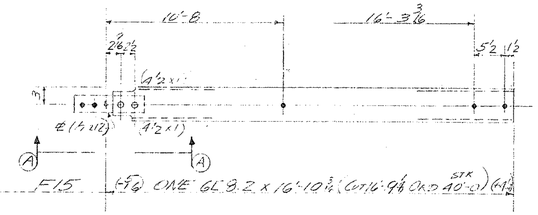


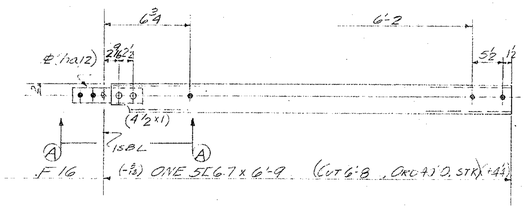
	a	b	c
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v			
w			

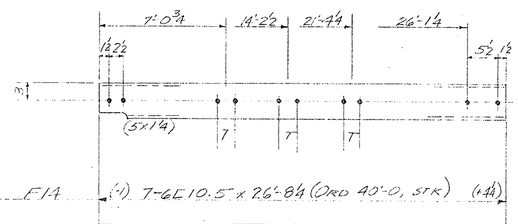


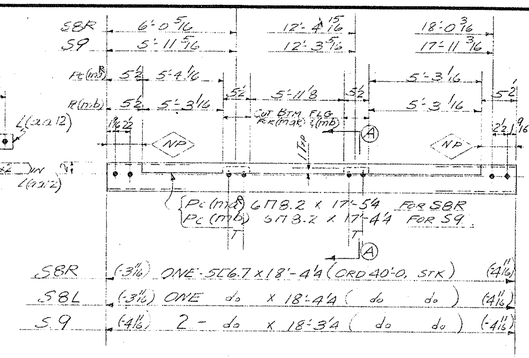


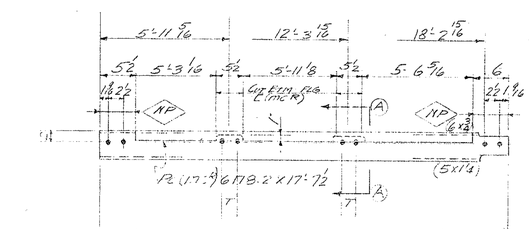


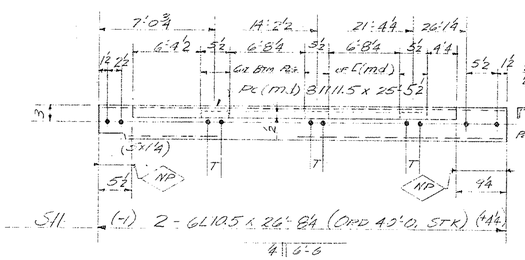


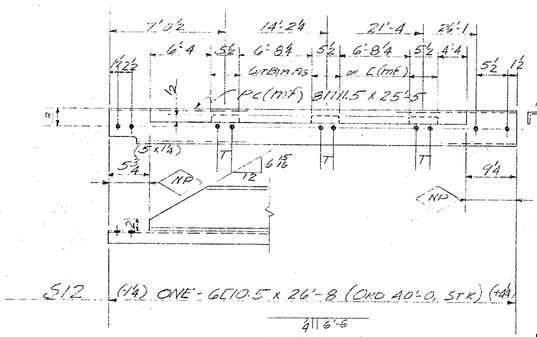


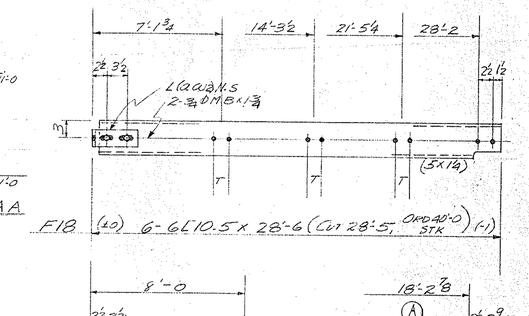












REQUIRED LIST

No Reqd	Desc.	Mark	No Reqd	Desc	Mark
ONE	GIRT	F1R	ONE	GIRT	F11R
ONE		F1L	ONE		F11L
ONE		F2R	6		F12R
ONE		F2L	5		F12L
4		F3	ONE		F13R
			ONE		F13L
ONE		F4R	7		F14
ONE		F4L	ONE		F15
ONE		F5R	ONE		F16
ONE		F5L	ONE		F17
ONE		F6R	6		F18
ONE		F6L	ONE	STRUT	S8R
2		F7R	ONE		S8L
2		F7L	2		S9
ONE		F8R			
ONE		F8L	2		S10R
ONE		F9R	2		S10L
ONE		F9L	2		S11
8		F10	ONE		S12

RIVETS 3/4 ø
OPEN HOLES 13/16
REAM
MILLING
PAINT PER SPECS
WELDING AS NOTED
SHOP CONTACT SURFACES NO PAINT

TEMP.	
SUPT.	
LAYOUT	
FITTER	
SHOP INSP.	
PC. WK.	
B. SMITH	
MCH.	
ERECT.	
O. INSP.	

GIRTS & STRUTS
1954 BULK STORAGE
PART OF LONGVIEW, LONGVIEW, WASH.

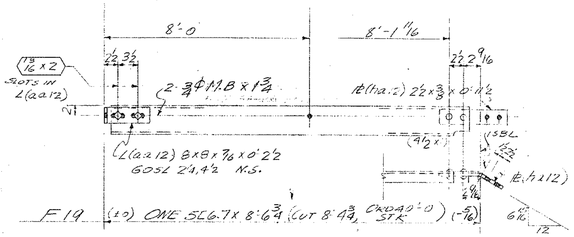
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FABRICATED STEEL CONSTRUCTION
SEATTLE DRAFTING ROOM SEATTLE WORKS

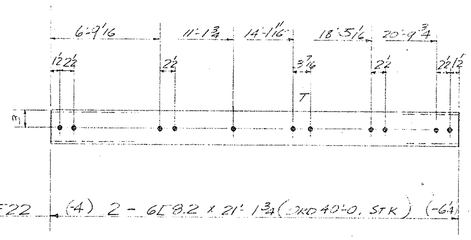
IN CHARGE A.L.M. MADE BY W.G.T. 5-28-54
CHECKED BY E.E.R. 6-10-54 TRACED BY
REVISED LAST ASSEM. MK.

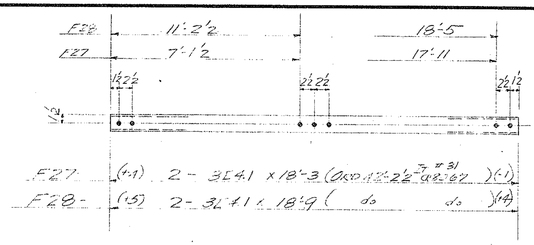
SHOP NO. CONTRACT CR 8103 SHEET 12

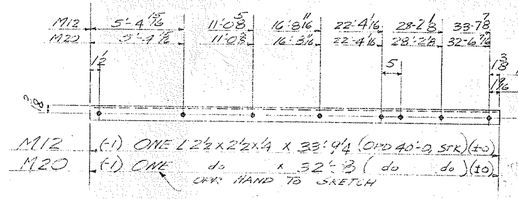
3200-Zm-4,51-BSCo

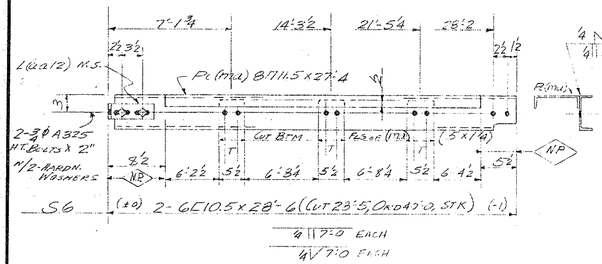
DRAWING NUMBER 681

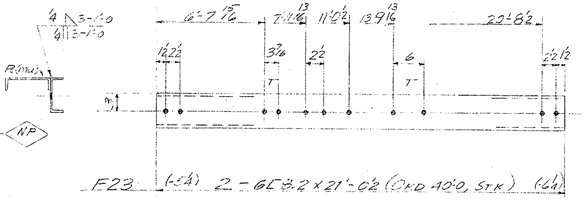


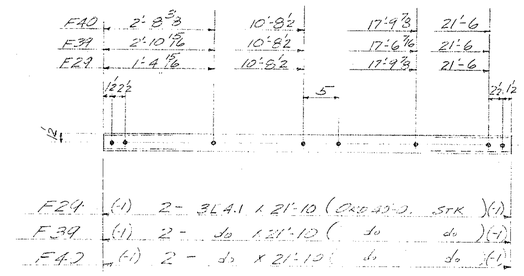


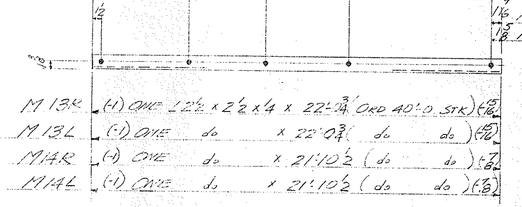


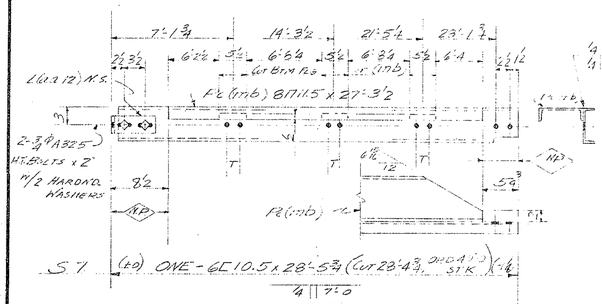


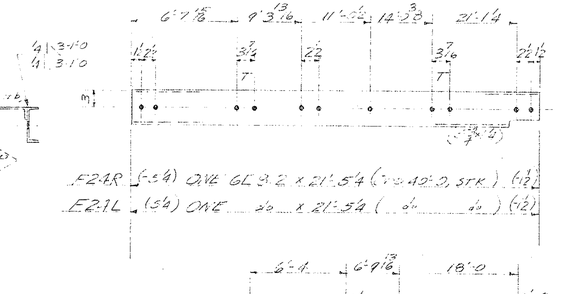


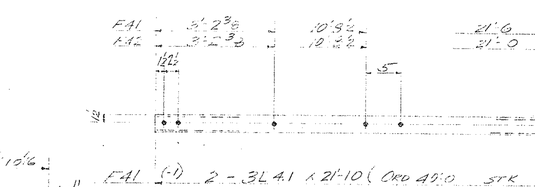


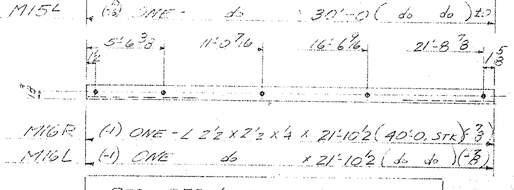


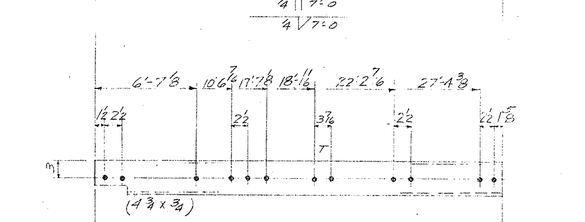


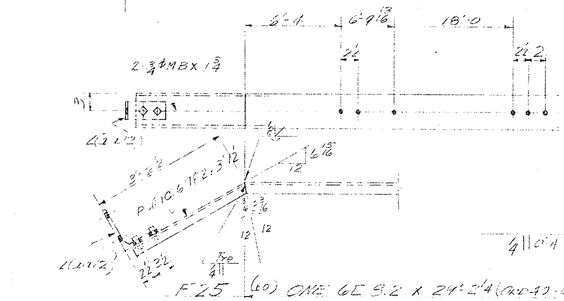


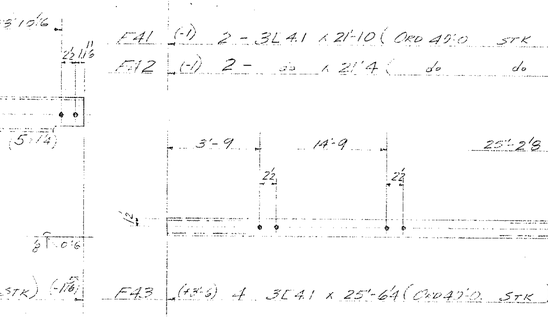


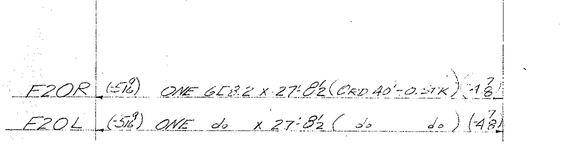


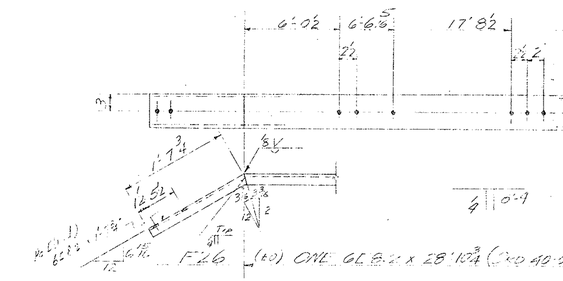


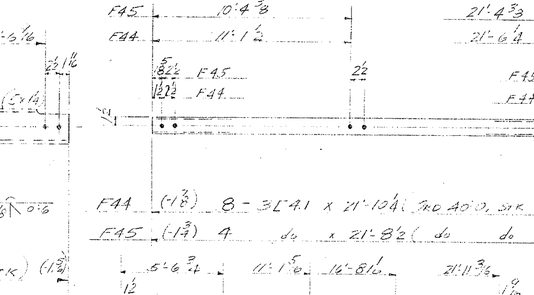


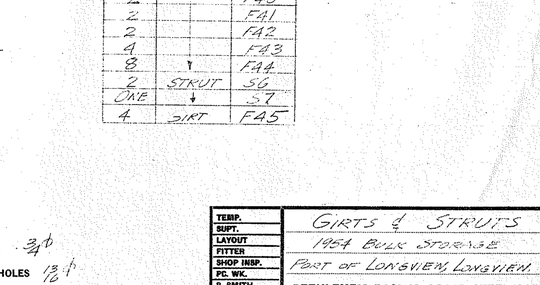












REQUIRED LIST

REQ'D. 12.00	DESC.	MARK
ONE	GIRT	F19
ONE		F22R
ONE		F22L
2		F21
2		F22
2		F23
ONE		F24R
ONE		F24L
ONE		F25
ONE		F26
2		F27
2		F28
2		F29
2		F39
2		F40
2		F41
2		F42
4		F43
8		F44
2	STRUT	S6
ONE	↓	S7
4	GIRT	F45

REQ'D. 12.00	DESC.	MARK
ONE	ANGLE	9 1/2
ONE		19 20
ONE		M13R
ONE		M13L
ONE		M14R
ONE		M14L
ONE		M15R
ONE		M15L
ONE		M16R
ONE		M16L
ONE		M17R
ONE		M17L

	a	b	c
a			
b			
c			
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f			
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k			
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s			
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v			
w			

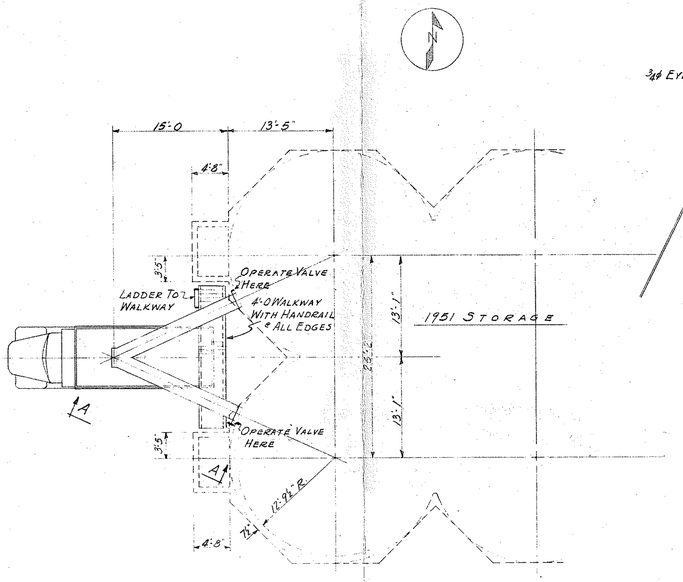
RIVETS 3/4"ϕ
OPEN HOLES 13/16"ϕ
REAM
MILLING
PAINT PER SP-500
WELDING AS NOTED
SHOP CONTACT SURFACES NO PAINT

TEMP.	GIRTS & STRUTS
SUPT.	1954 BULK STORAGE
LAYOUT	PART OF LONGVIEW, LONGVIEW, WASH.
FITTER	BETHLEHEM PACIFIC COAST STEEL CORPORATION
SHOP INSP.	FABRICATED STEEL CONSTRUCTION
PC. WK.	SEATTLE DRAFTING ROOM SEATTLE WORKS
B. SMITH	IN CHARGE ALM MADE BY W.C.T. 6-2-54
MCH.	CHECKED BY E.E.P. 6-11-54 TRACED BY
ERECT.	REVISED LAST ASSEM. MK.
O. INSP.	SHOP NO. CONTRACT CR2103 SHEET 13

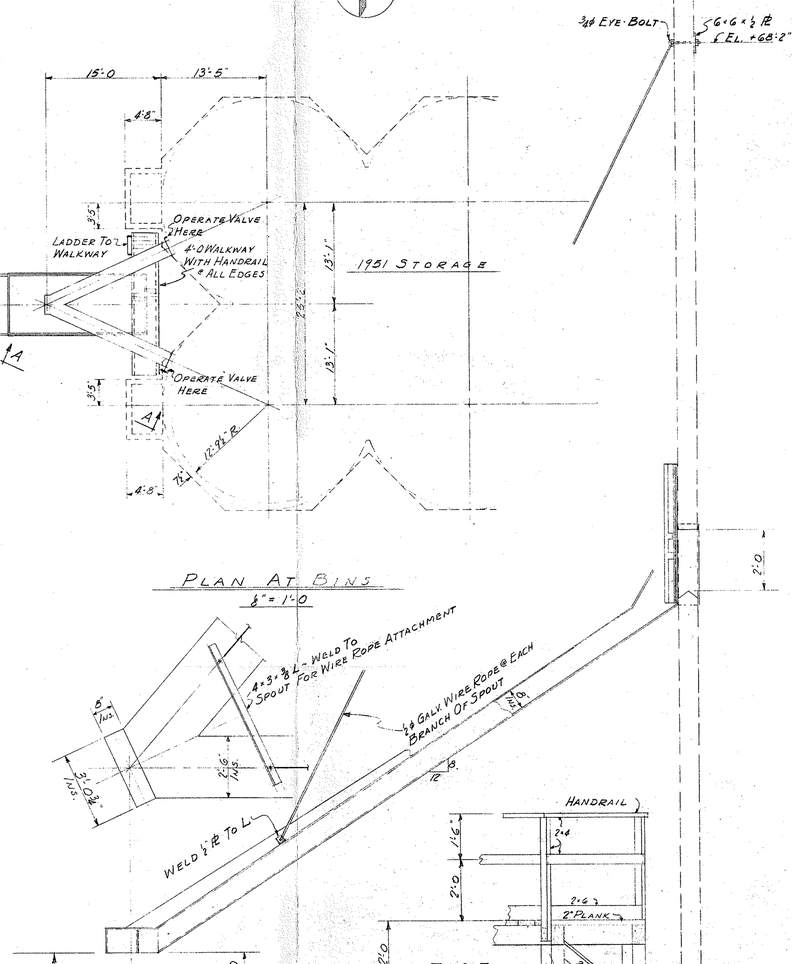
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DRAWING NUMBER 88a

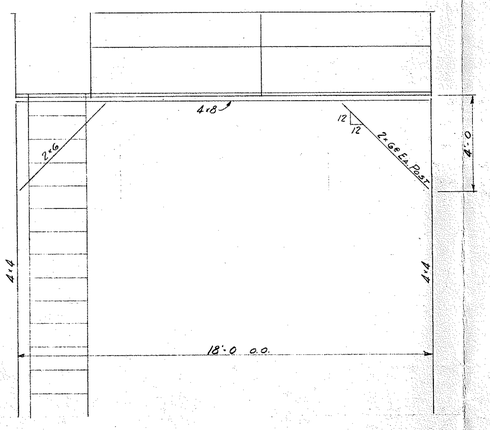
DRAWING NUMBER 1



PLAN AT BINS
$\frac{1}{8}$" = 1'-0



SECTION A-A
$\frac{1}{2}$" = 1'-0



ELEVATION AT WALKWAY

NOTE: FOR DETAILS NOT SHOWN SEE DWG. XA-936

CONTINENTAL GRAIN CO.
1954 ALTERATION TO 1951 STORAGE
LONGVIEW, WASHINGTON

TRUCK LOADER DETAILS
SCALE: NOTED

E. F. CARTER AND MARSHALL & ASSOCIATES
CONSULTING ENGINEERS
SEATTLE VANCOUVER

BY	DATE	REVISION

DR. R.M.T. PRINTED
CK.
XA 944

32647

JUL 15 1954