673 Lib 17

Quonset* 40

RELEASED MARCH 1, 1949
TYPE - A
ARCHITECTURAL PLANS, SECTIONS, & ELEVATIONS

673 LIB 0010-01
Dup
Lib 17

QUONSET BUILDINGS

BUILT WITH STRAN-STEEL FRAMING
A SOUND INVESTMENT

GREAT LAKES STEEL CORPORATION
STRAN STEEL DIVISION

*REG. U.S. PAT. OFF.

SHEET NO.	SHEET DESCRIPTION	DATE DRAWN	REVISION DATES			
			REV. NO. 1	REV. NO. 2	REV. NO. 3	REV.-LATEST
621	FOUNDATION PLAN AND DETAILS	10-1-48				
622	SLAB TYPE FOUNDATION PLAN AND DETAILS	10-1-48				
623	PLAN OF CHANNELS, RIBS AND STUDS	10-1-48				
627	ROOF FRAMING PLAN AND DETAILS	10-1-48				
628	ROOF SHEET PLAN AND DETAILS	10-1-48				
629	CROSS SECTION AND DETAILS	10-1-48				
630	SOLID END WALL FRAMING AND DETAILS	10-1-48				
631	END WALL FRAMING WITH 14'-0" X 13'-6" DOOR	10-1-48				
632	END WALL WIND BRACES	10-1-48				
AST-3	4'-0" X 4'-0" STEEL LOUVER	5-13-47				④10-1-48
AST-31	3'-6" X 7'-0" SWING STEEL DOOR FOR 3⅝" STUD WALL	1-13-47				⑥10-1-48
AST-48	DOOR THRESHOLD FOR 14'-0" X 13'-6" SLIDING DOOR	6-11-47		10-1-48		
AST-66	14'-0" X 13'-6" SLIDING STEEL DOOR	4-14-48		10-1-48	12-15-48	
AST-67	12'-0" X 12'-0" SLIDING STEEL DOOR IN CURVED WALLS	10-1-48				
AST-68	3'-5" X 4'-1" STEEL WINDOWS FOR 6" CURVED RIBS	10-1-48				
AST-69	3'-6" X 7'-0" SWING STEEL DOOR FOR 6" CURVED RIBS	10-1-48				
AST-76	FIELD INSTALLATION OF FLASHING AT END AND SIDE WALLS	10-1-48				
AST-79	FIELD INSTALLATION OF 14'-0" X 13'-6" SLIDING DOOR	10-1-48				
AST-81	3'-5" X 4'-1" STEEL WINDOW FOR STRAIGHT WALL	10-1-48				
AST-83	12'-0" X 12'-0" SLIDING STEEL DOOR	2-2-48		6-1-48	12-15-48	
AST-77	FOUNDATION WALL, POURED CONCRETE OR CONCRETE BLOCK	10-1-48				
AST-116	20" DIA. KNOCKDOWN GALVANIZED VENTILATOR	10-1-48				

INDEX SHEET
QUONSET "40" BUILDING
40 FT. LONG AND LONGER - TYPE "A"

DIVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

QUONSET "40" BUILDING
40 FT. LONG & LONGER
TYPE "A"

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	H.E.B.	V.A.R.	Q-40-A	INDEX
ISSUE	CUSTOMERS ORDER	ESTIMATE NUMBER		

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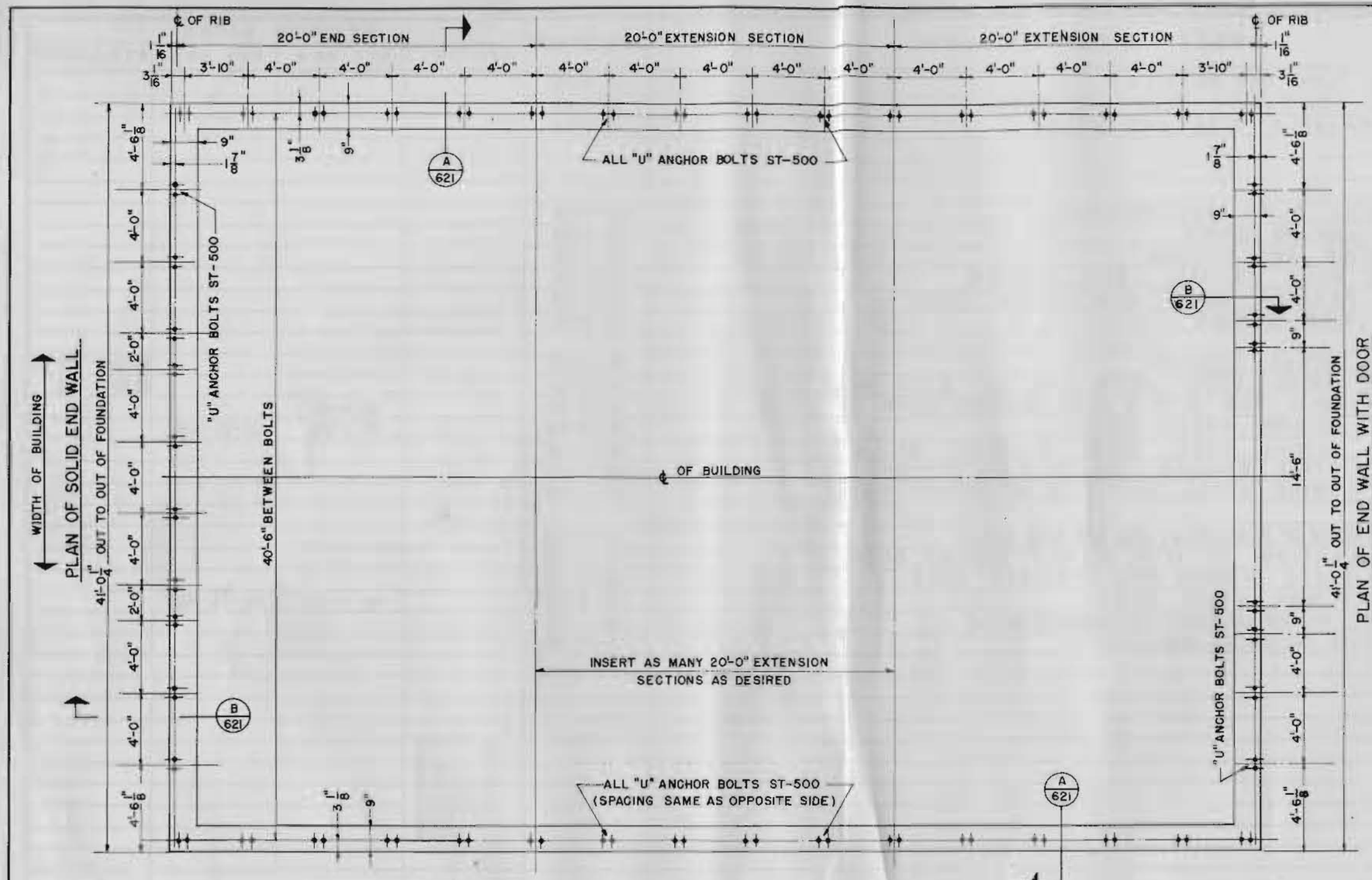
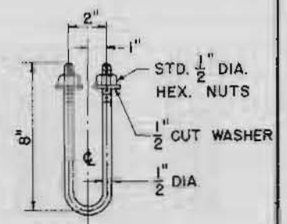




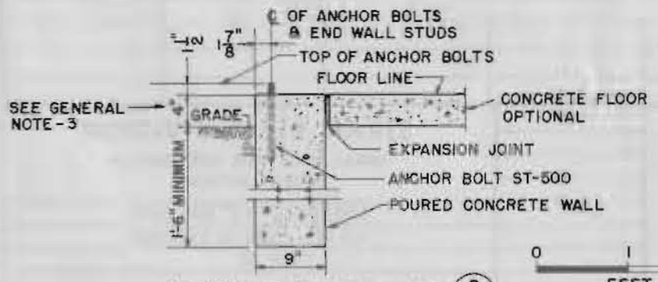
"U" ANCHOR BOLT
ST-500

GENERAL NOTES

1. FOUNDATION WALLS TO BE 2000 P.S.I. CONCRETE.
2. ASSUMED SOIL BEARING VALUE-4000 P.S.F. IF LOCAL SOIL BEARING VALUES VARY FROM THE ABOVE, FOUNDATION WALLS MUST BE ADJUSTED TO SUIT.
3. IF THIS DIMENSION EXCEEDS 4", FOUNDATION WALLS MUST BE ADJUSTED TO SUIT INCREASED VERTICAL & LATERAL PRESSURE
4. SEE SHEET AST-77 FOR RECOMMENDED DESIGNS OF FOUNDATION WALLS EXTENDING MORE THAN 4" ABOVE GRADE.
5. SEE SHEETS AST-67 & AST-69 FOR FOUNDATION DETAILS OF SLIDING STEEL DOOR AND WALK IN DOOR IN CURVED SIDE WALLS.

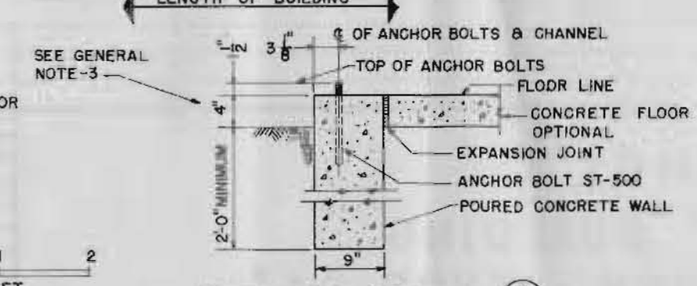
FOUNDATION PLAN SHOWING ANCHOR BOLT LOCATION

0 5 10
FEET
LENGTH OF BUILDING



SECTION THRU END WALL (B/621)

0 1 2
FEET
SCALE OF SECTIONS



SECTION THRU SIDE WALL (A/621)

PIECE MK.	DESCRIPTION	SIZE AND GAGE
ST-500	"U" ANCHOR BOLT	1/2" DIAMETER

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

QUONSET "40" BUILDING
40 FT. LONG AND LONGER
TYPE "A"
FOUNDATION PLAN AND DETAILS

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	H.E.B.	R.L.C.	Q-40-A	621 TYPE-A
SCALE AS SHOWN	CUSTOMERS ORDER	ESTIMATE NUMBER		

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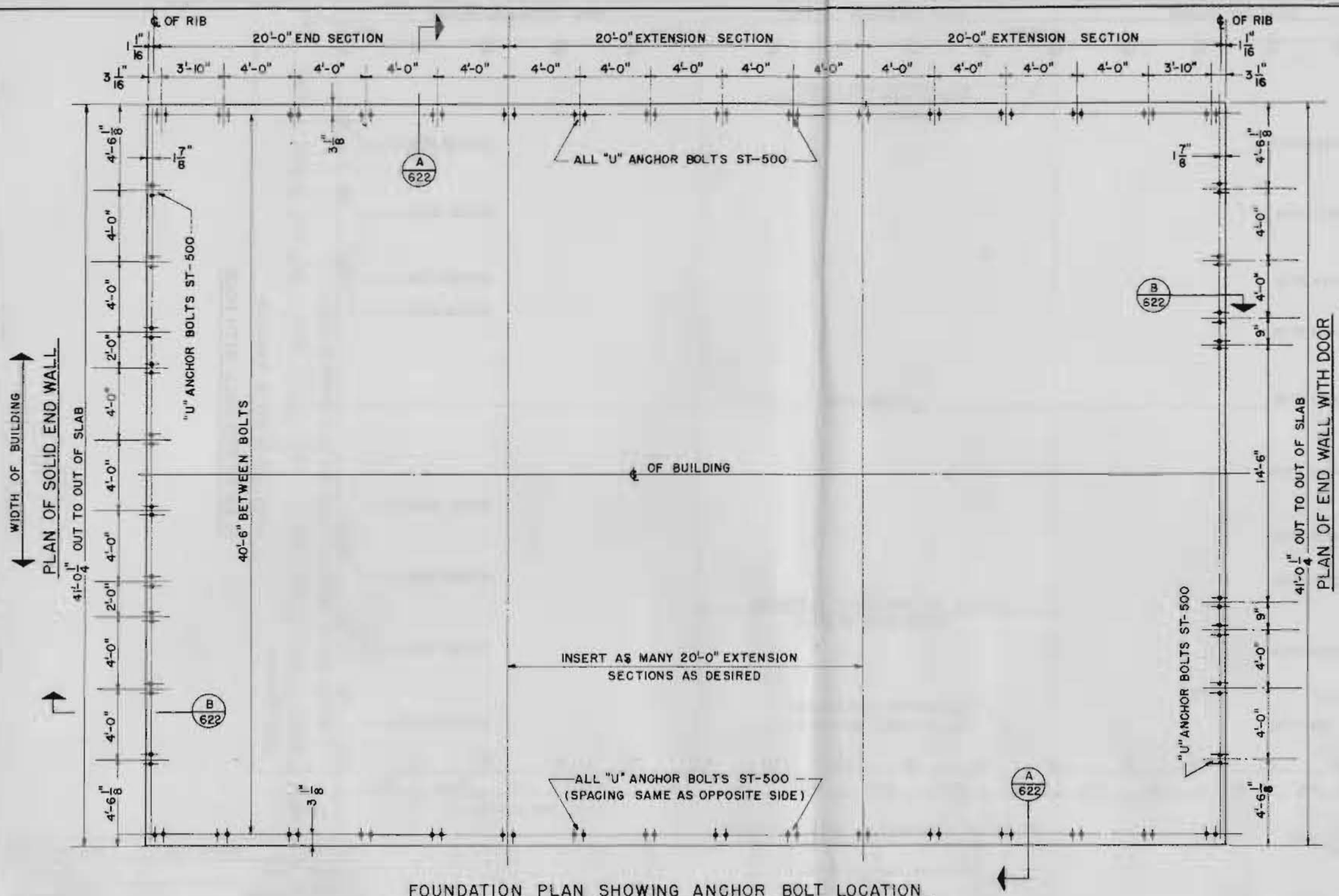
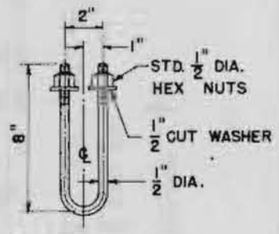


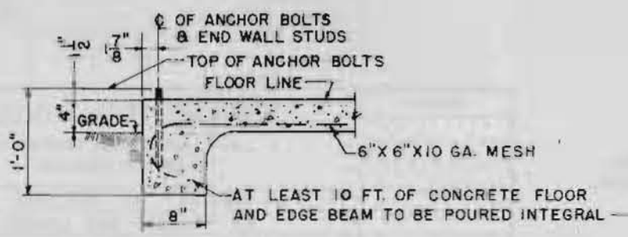
FOUNDATION PLAN SHOWING ANCHOR BOLT LOCATION

0 5 10 FEET

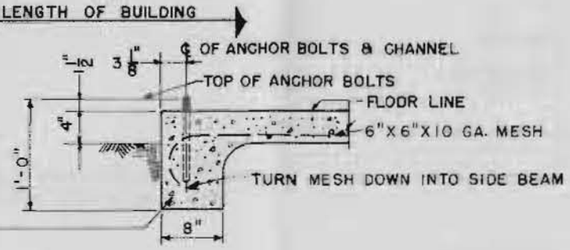
LENGTH OF BUILDING



"U" ANCHOR BOLT
ST-500



SECTION THRU END WALL B 622



SECTION THRU SIDE WALL A 622

0 1 2 FEET
SCALE OF SECTIONS

NOTE

SEE SHEETS AST-67 & AST-69 FOR FOUNDATION DETAILS OF SLIDING STEEL DOOR AND WALK IN DOOR IN CURVED SIDE WALLS.

PIECE MK.	DESCRIPTION	SIZE AND GAGE
ST-500	"U" ANCHOR BOLT	1/2" DIAMETER

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

QUONSET "40" BUILDING
40 FT. LONG AND LONGER
TYPE "A"
SLAB TYPE FOUNDATION - PLAN & DETAILS

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	H.E.B.	R.L.C.	Q-40-A	622 TYPE-A
SCALE AS SHOWN	CUSTOMERS ORDER	ESTIMATE NUMBER		

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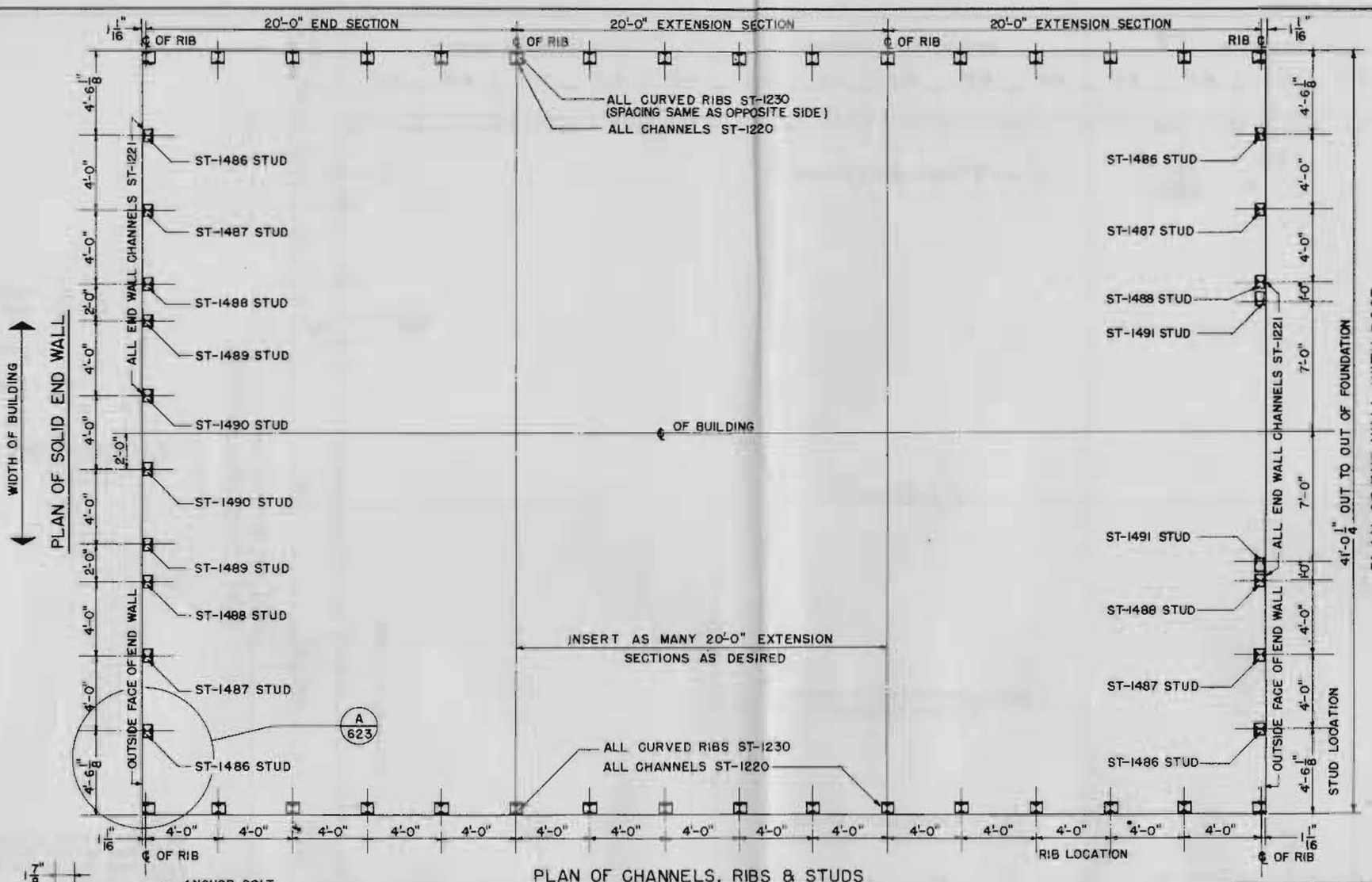

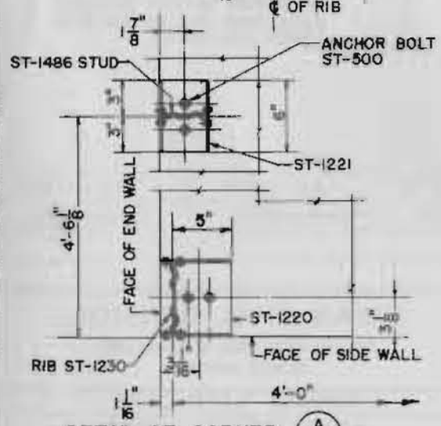

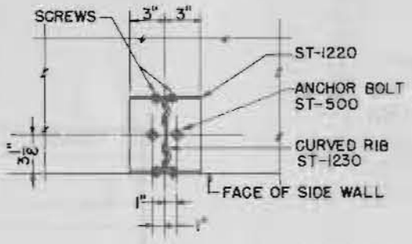

PLAN OF CHANNELS, RIBS & STUDS

0 5 10
FEET
LENGTH OF BUILDING

NOTE
ATTACH RIB AND STUDS TO CHANNEL WITH 4-NO.14 SHEET METAL SCREWS.

PIECE MK.	DESCRIPTION	SIZE AND GAGE
ST-1230	RIB	6" X 14 GAGE
ST-1486 TO ST-1490	STUDS	$3\frac{5}{8}$" X 16 GAGE
ST-1491	DOOR JAMB STUD	$3\frac{5}{8}$" X16 GA. & $3\frac{13}{16}$" X16 GA.
ST-1220	CHANNEL	$6\frac{1}{4}$" X $1\frac{3}{4}$" X 16 GAGE
ST-1221	CHANNEL	$3\frac{13}{16}$" X $1\frac{5}{8}$" X 16 GA.

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

QUONSET "40" BUILDING
40 FT. LONG AND LONGER
TYPE "A"
PLAN OF CHANNELS, RIBS AND STUDS

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	H.E.B	R.L.C.	Q-40-A	623 TYPE-A
SCALE AS SHOWN	CUSTOMERS ORDER	ESTIMATE NUMBER		

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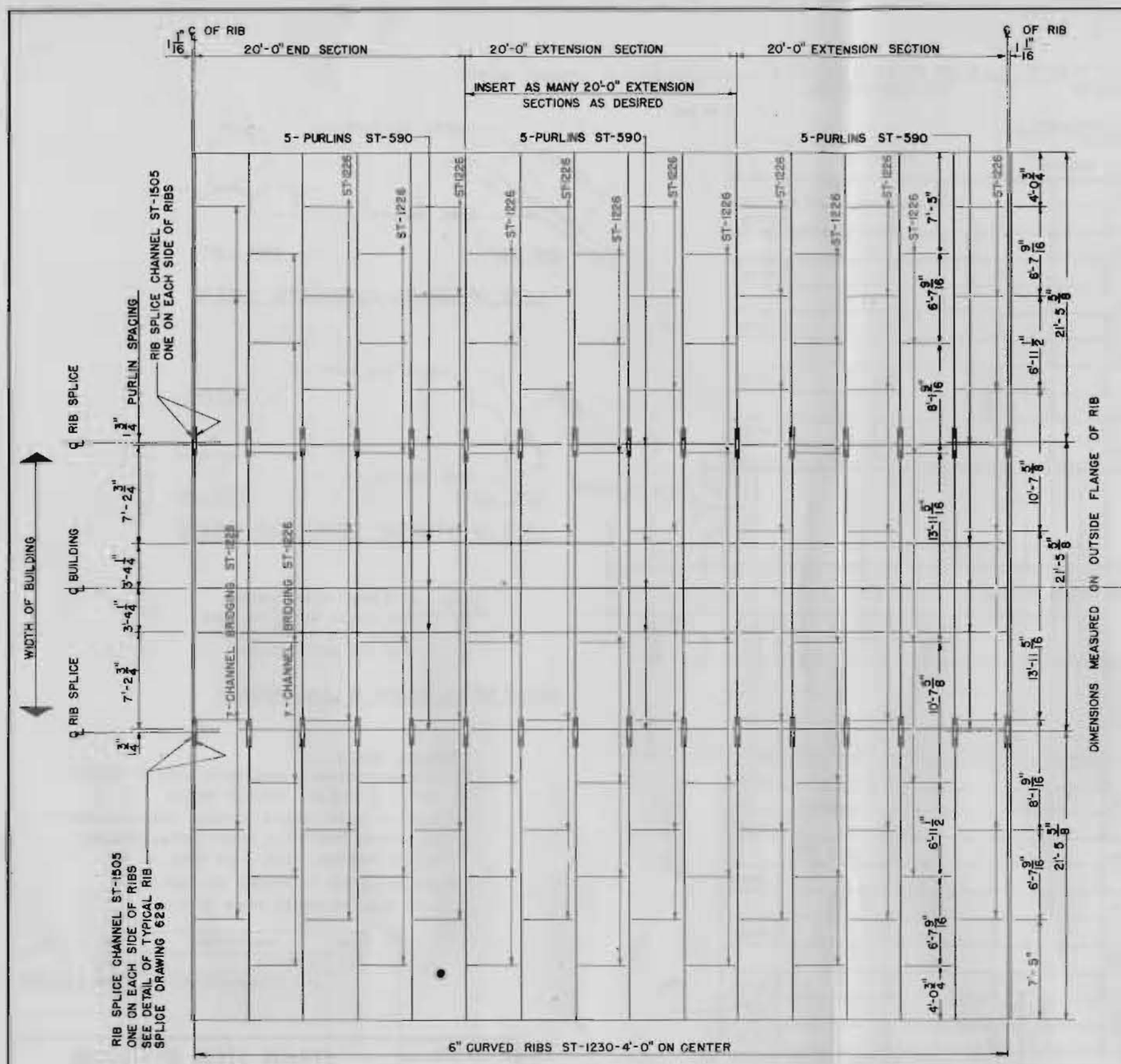

DEVELOPED PLAN OF ROOF FRAMING

NOTE

1.- SEE DRAWING 629 FOR DETAIL OF PURLIN TO RIB CONNECTION & INSTALLATION OF CHANNEL BRIDGING.

PIECE MK	DESCRIPTION	SIZE & GAGE
ST-1505	RIB SPLICE CHANNEL	4 7/8" X 5/8" X 11 GA
ST-590	PURLIN	2" X 18 GA
ST-1226	CHANNEL BRIDGING	5 1/8" X 1" X 18 GA
ST-1230	CURVED RIB	6" X 14 GA

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

QUONSET "40" BUILDING
40'FT LONG AND LONGER
TYPE - A
ROOF FRAMING PLAN

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	J.H.M.	V.A.R.	Q-40-A	627 TYPE-A
SCALE AS SHOWN	CUSTOMER'S ORDER	ESTIMATE NUMBER		

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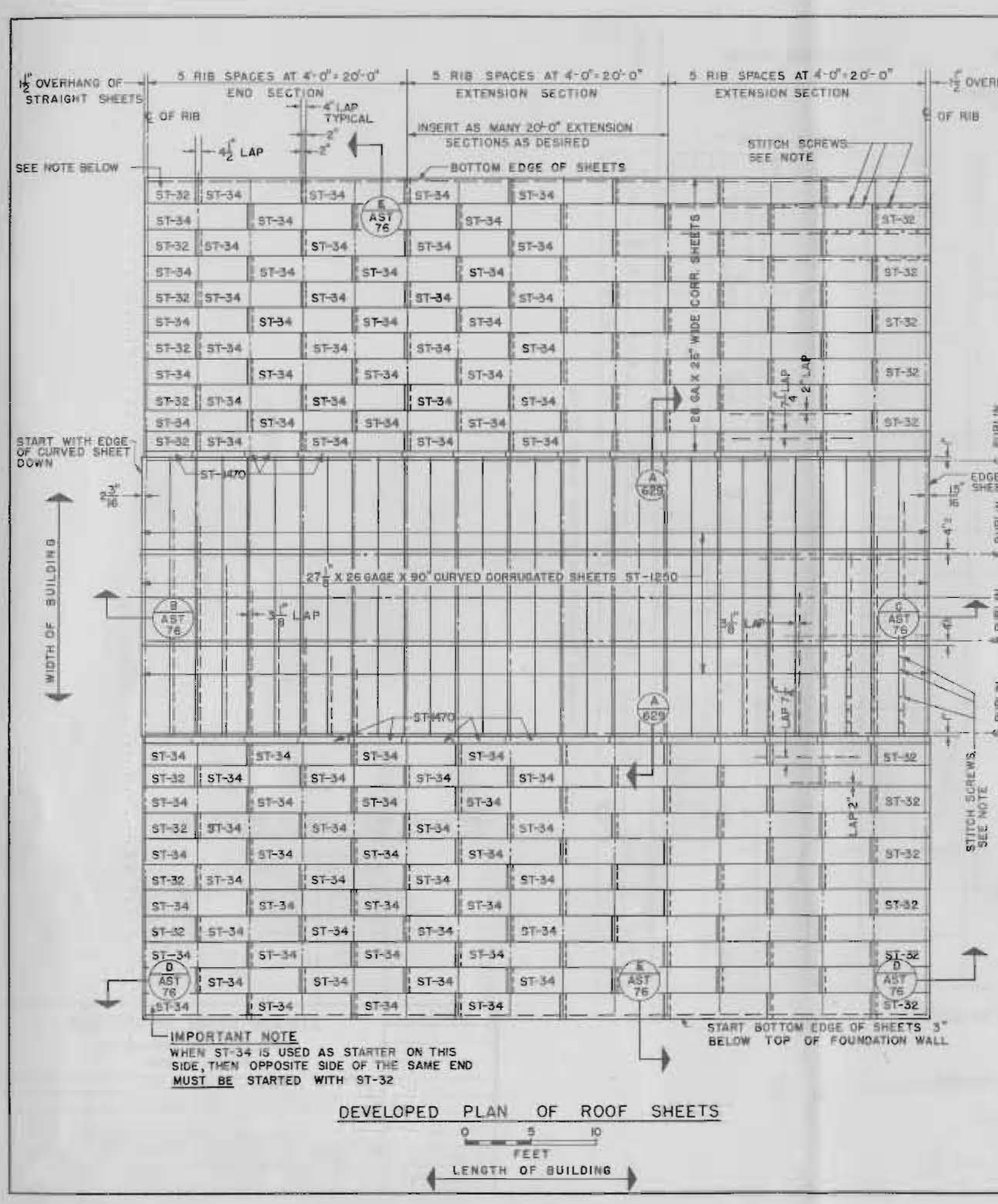
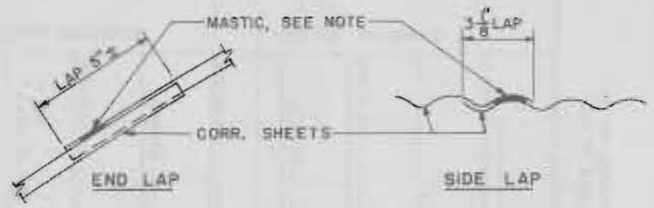
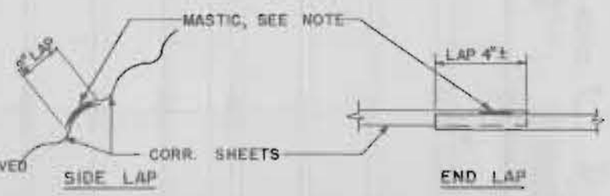
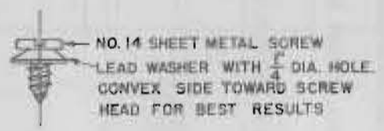




LAPS OF CURVED CORRUGATED SHEETS



LAPS OF STRAIGHT CORRUGATED SHEETS



SHEET METAL SCREW & LEAD WASHER

GENERAL NOTES

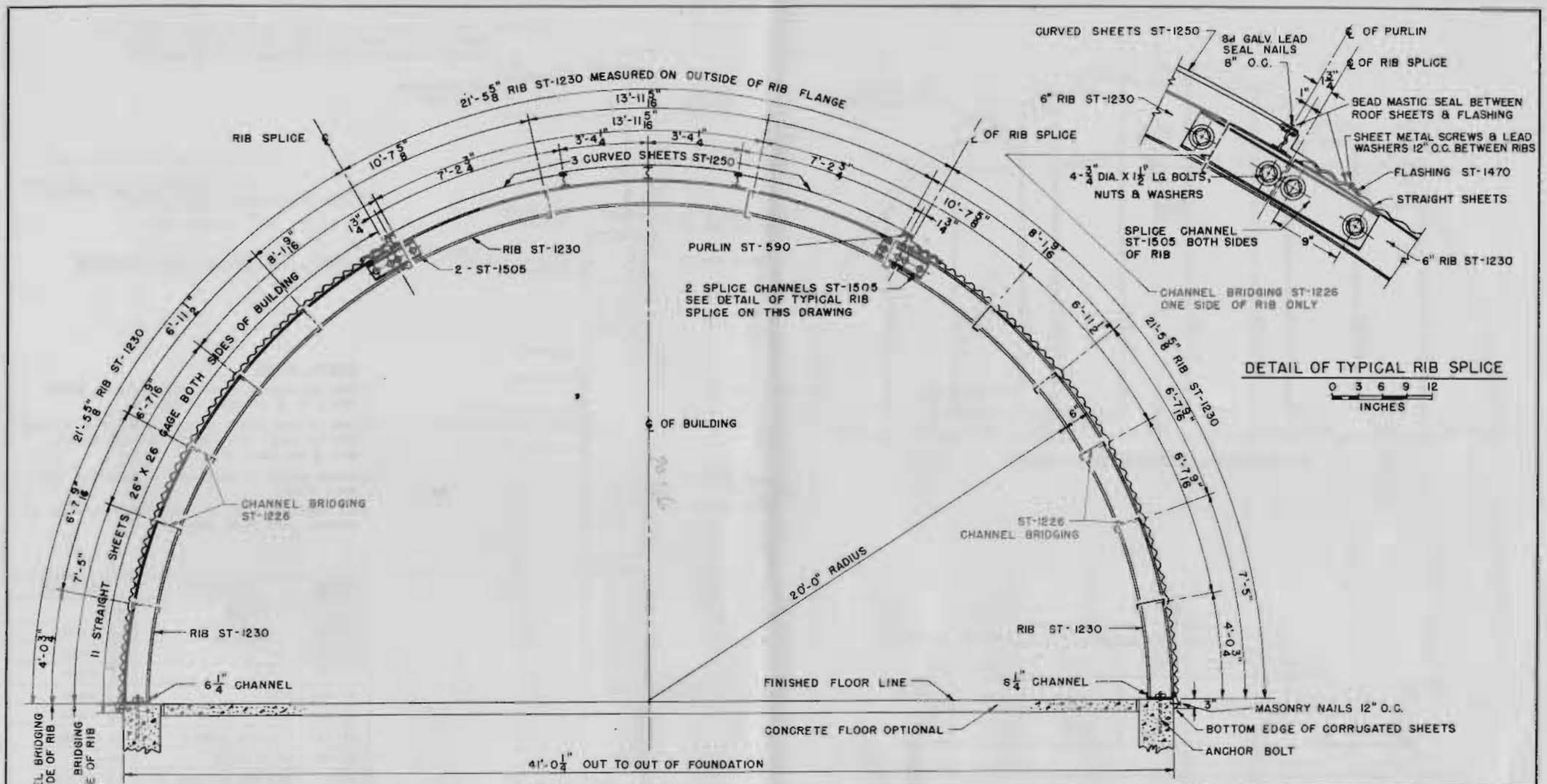
1- SEAL ALL VERTICAL & HORIZONTAL LAPS OF SHEETS WITH A 1/4" TO 5/16" DIA. BEAD OF MASTIC.

2- LAPS OF CORR. SHEETS BETWEEN PURLINS & RIBS TO BE STITCHED WITH NO. 14 SHEET METAL SCREWS & LEAD WASHERS WITH 1/4" DIA. HOLE 12" O.C.

3- SECURE SHEETS TO PURLINS AND RIBS WITH LEAD SEAL GALVANIZED NAILS 6" O.C.

PIECE MK	DESCRIPTION	SIZE & GAGE
ST-1470	FLASHING	26 GAGE
	ALL CORRUGATED SHEETS	26 GAGE X 2 1/2" CORR.

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN			
	QUONSET "40" BUILDING 40 FT. LONG & LONGER TYPE "A"			
	PLAN OF ROOF SHEETS			
DATE 10-1-48	DRAWN H.E.B	CHECKED R.L.C.	JOB NO. Q-40-A	SHEET NUMBER 628 TYPE-A
SCALE AS SHOWN	CUSTOMERS ORDER	ESTIMATE NUMBER		



PIECE MK	DESCRIPTION	SIZE & GAGE
ST-590	PURLIN	2" X 18 GA.
ST-1230	CURVED RIB	6" X 14 GA.
	CHANNEL	6 1/4" X 1 3/4" X 16 GA.
ST-1226	CHANNEL BRIDGING	6 1/8" X 1" X 18 GA.
ST-1505	RIB SPLICE CHANNEL	4 7/8" X 5/8" X 11 GA.
ST-1470	FLASHING	26 GA. GALV.
	CORRUGATED SHEET	26 GA. GALV.

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

QUONSET "40" BUILDING
40 FT. LONG AND LONGER
TYPE - "A"
CROSS SECTION AND DETAILS

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	R.T.L.	V.A.R.	Q-40-A	629 TYPE-A
SCALE AS SHOWN	CUSTOMERS ORDER	ESTIMATE NUMBER		

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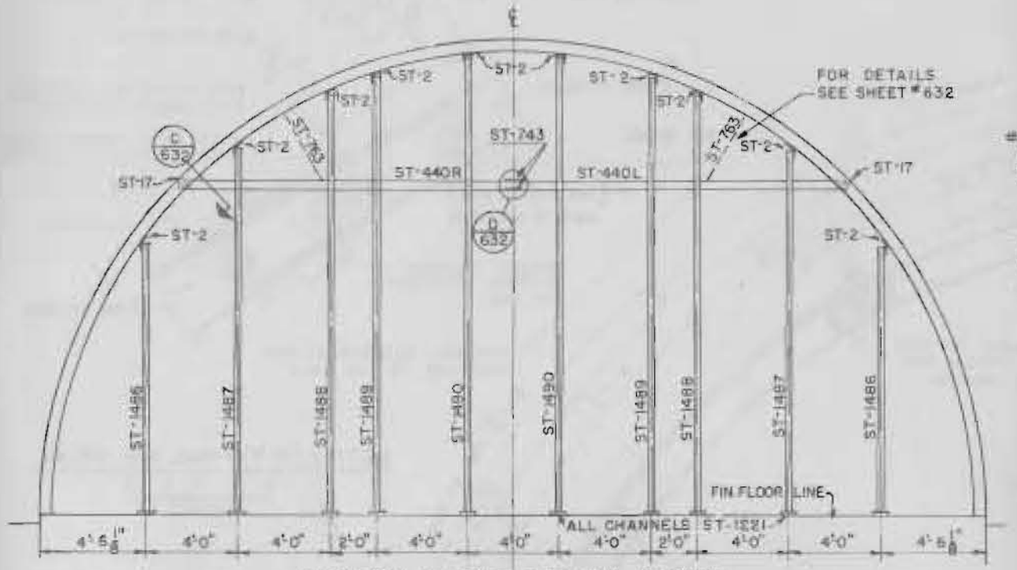
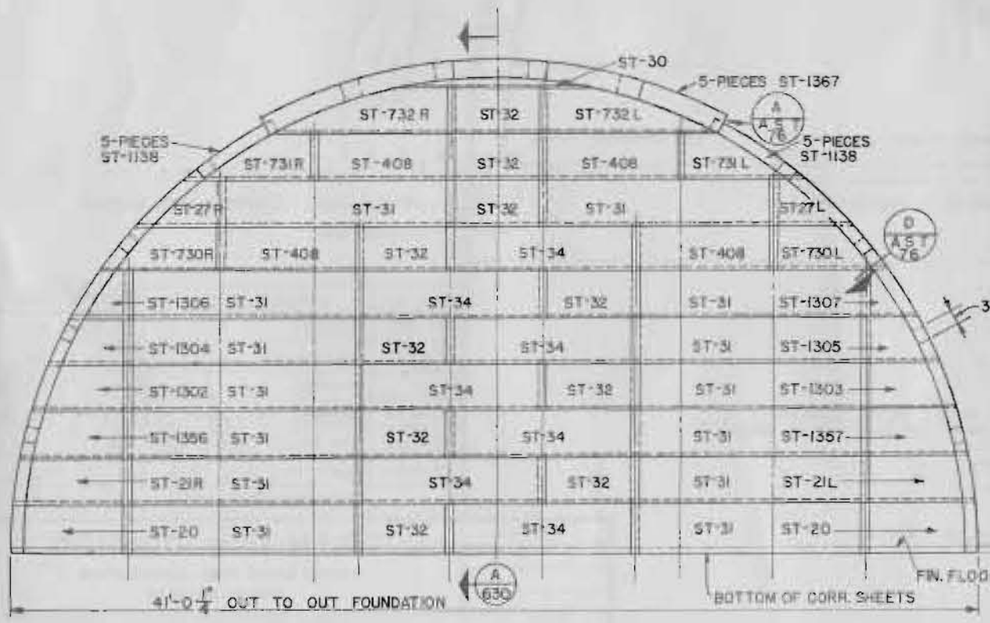
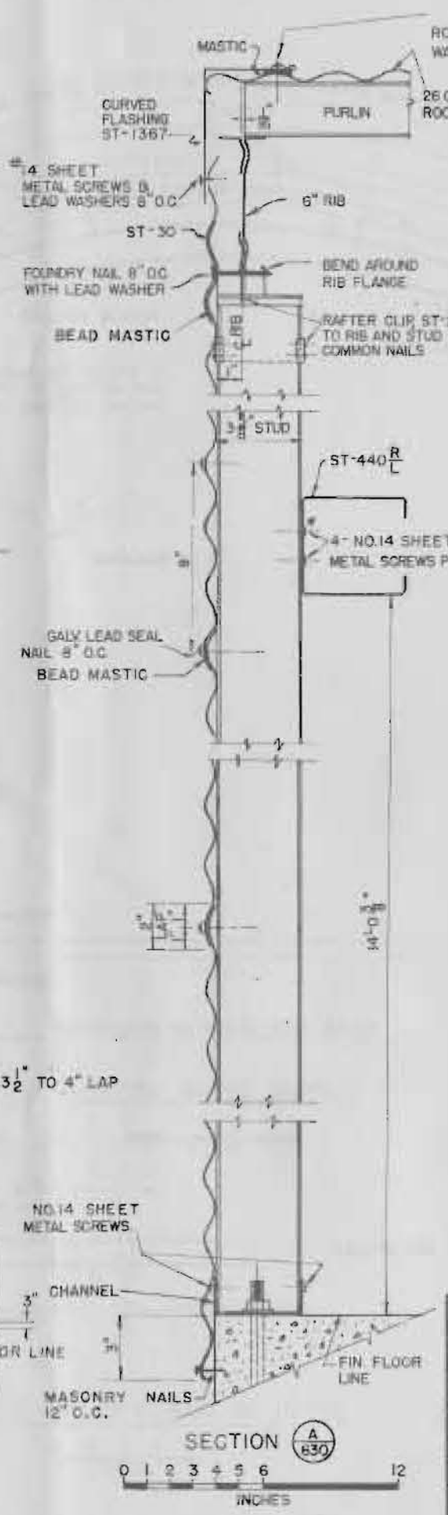


ELEVATION OF SOLID END WALL FRAMING



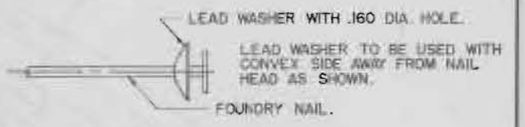
ELEVATION OF SOLID END WALL SHEETS

0 5 10
FEET
SCALE FOR ELEVATIONS



SECTION A/630

0 1 2 3 4 5 6 12
INCHES



FOUNDRY NAIL WITH LEAD WASHER

GENERAL NOTES.

1- SEAL ALL VERTICAL & HORIZONTAL LAPS OF SHEETS WITH 1/4 OR 3/16 DIA. BEAD OF MASTIC.

2- LAPS OF CORR. SHEETS BETWEEN STUDS TO BE STITCHED WITH #14 SHEET METAL SCREWS & LEAD WASHERS WITH 5/16" DIA. HOLES 12" O.C.

3- SECURE SHEETS TO STUDS WITH LEAD SEAL GALV. NAILS 8" O.C.

4- ALL HORIZONTAL LAPS OF CORR. SHEETS TO BE 2" & VERTICAL LAPS TO BE ABOUT 4".

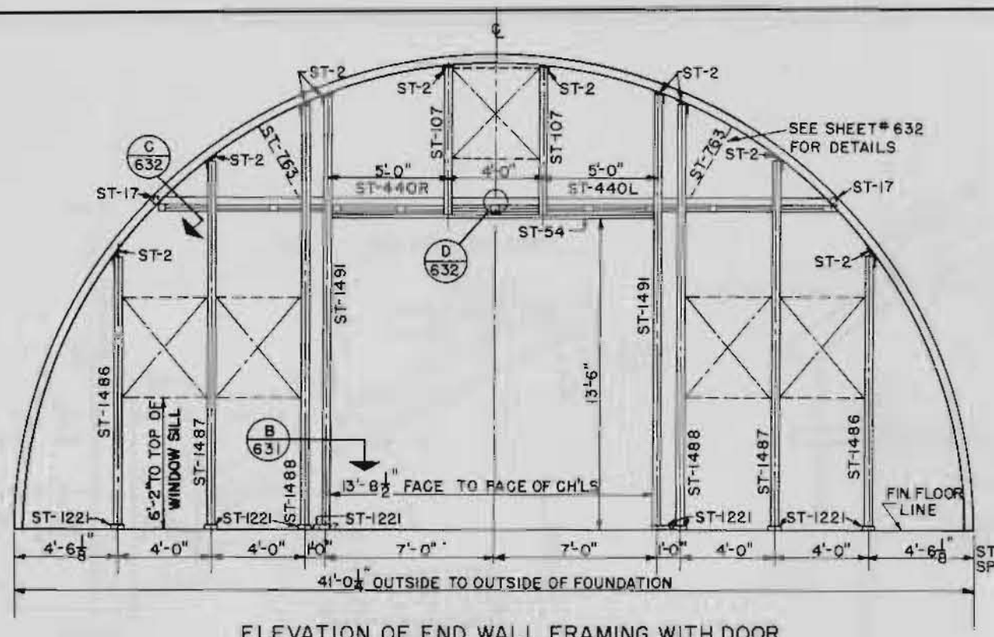
PIECE MK.	DESCRIPTION	SIZE & GAGE
ST-2	RAFTER CLIP	16 GA.
ST-1486	STUD	3 5/8" X 16 GA.
ST-1487	STUD	3 5/8" X 16 GA.
ST-1488	STUD	3 5/8" X 16GA.
ST-1489	STUD	3 5/8" X16GA.
ST-1490	STUD	3 5/8" X16 GA.
ST-1367	FLASHING CURVED	26 GA. GALV.
ST-743	SPLICE PLATE	4"X 1/4"
ST-17	RIB & WIND GIRT CONN. CH'L.	6 1/4" X 3" X 13GA.
ST-1138	FLASHING CURVED	26 GA. GALV.
ST-1221	CHANNEL	3 13/16" X 1 5/8" X 16 GA.
	ALL CORR. SHEETS	26GA. X 2 2/3" CORR.
ST-440 R/L	END WALL GIRT	4 1/4" X 4 5/8" X 1/8" X13GA
ST-763	BRACE	3"X3"X 1/4" X 14GA

REVISIONS

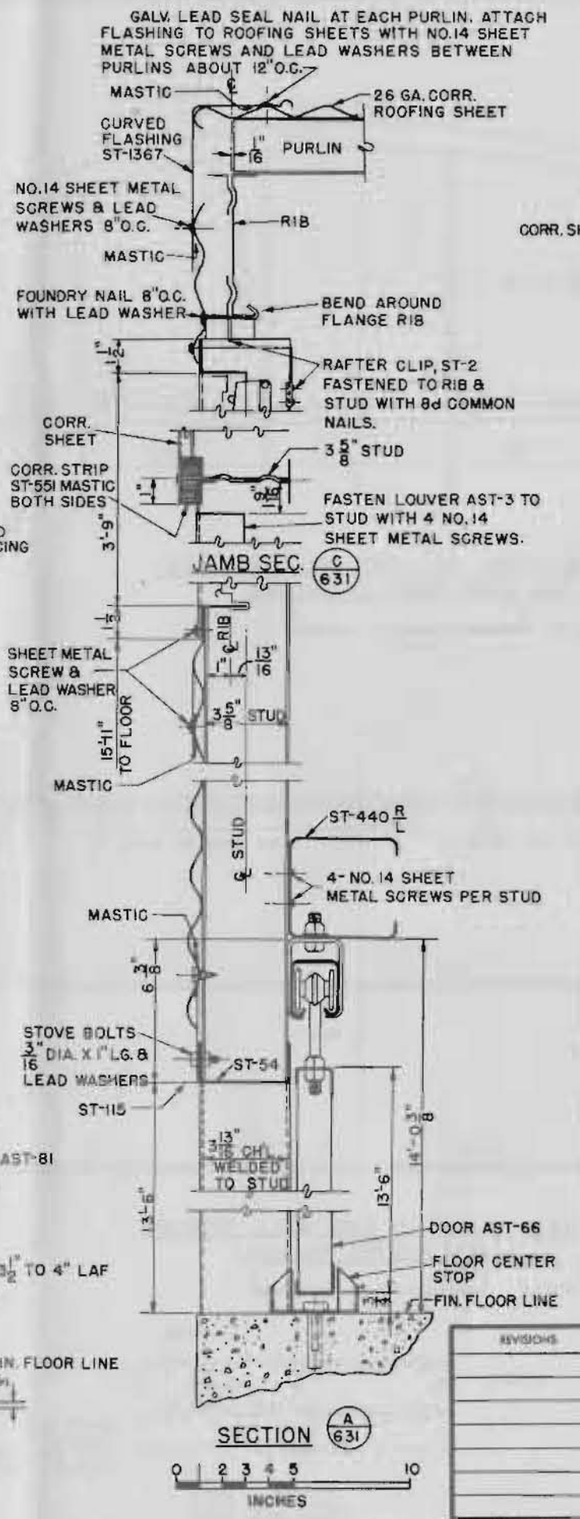
STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

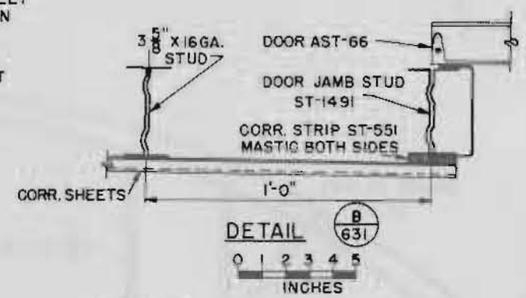
QUONSET "40" BUILDING
40 FT. LONG AND LONGER
TYPE "A"
SOLID END WALL, FRAMING AND DETAILS

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	H.E.B.	R.L.C.	Q-40-A	630 TYPE-A
SCALE AS SHOWN	CUSTOMER'S ORDER	ESTIMATE NUMBER		



ELEVATION OF END WALL FRAMING WITH DOOR

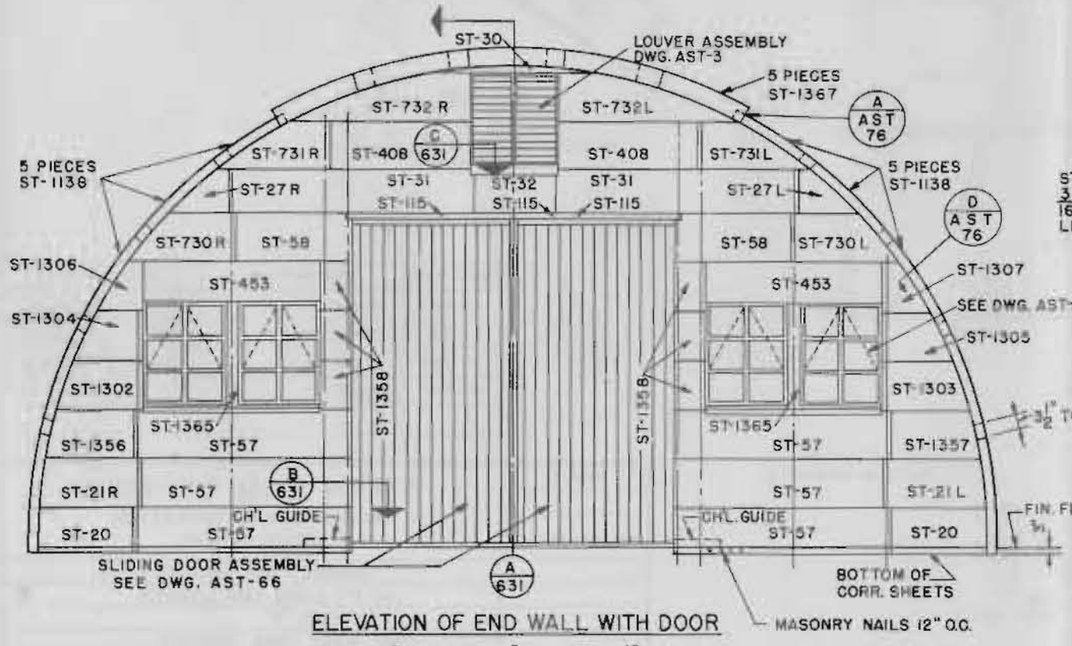




NOTES

1. SEAL ALL VERTICAL & HORIZONTAL LAPS OF SHEETS WITH ¼" TO 5/16" DIA. BEAD OF MASTIC.
2. LAPS OF CORR. SHEETS BETWEEN STUDS TO BE STITCHED WITH NO.14 SHEET METAL SCREWS & LEAD WASHERS, WITH ¼" HOLE, 12" O.C.
3. SECURE SHEETS TO STUDS WITH GALV. LEAD SEAL NAILS, 8" O.C.
4. ALL HORIZONTAL LAPS OF CORR. SHEETS TO BE 2" & VERTICAL LAPS TO BE 4".

PIECE MK.	DESCRIPTION	SIZE AND GAGE
AST-3	METAL LOUVER	4'-0" X 4'-0"
AST-66	SLIDING DOOR	14'-0" X 13'-6" HIGH
AST-81	METAL WINDOW	3'-4⅞" X 4'-1" HIGH
ST-1486	STUD	3⅝" X 16 GA.
ST-1487	STUD	3⅝" X 16 GA.
ST-1488	STUD	3⅝" X 16 GA.
ST-1138	FLASHING, CURVED	26 GA. GALV.
ST-1367	FLASHING, CURVED	26 GA. GALV.
ST-17	RIB & WIND GIRT CONN. CH'L	6¼ X 3" X 13 GA.
ST-1221	CHANNEL	3 13/16" X 16 GA.
ST-54	TOP CHANNEL	3 13/16" X 16 GA.
ST-107	STUD	3⅝" X 16 GA.
ST-115	FLASHING	26 GA. GALV.
ST-1365	FLASHING	20 GA. GALV.
ST-2	RAFTER CLIP	16 GA.
ST-440 R/L	END WALL GIRT	4¼" x 4⅝" x 7/8" X 13 GA.
ST-1491	DOOR JAMB STUD	3⅝" X 16 GA. & 3 13/16" X 16 GA.
ST-763	BRACE	3" X 3" X ¾" X 14 GA.
ST-551	CORR. STRIP	¾" X 2"
ST-743	SPLICE PLATE	4" X ¼"
	ALL CORRUGATED SHEETS	26 GA. X 2½" CORR.



ELEVATION OF END WALL WITH DOOR

SCALE FOR ELEVATIONS

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN			
	QUONSET "40" BUILDING 40 FT. LONG AND LONGER TYPE "A" END WALL FRAMING WITH DOOR			
DATE 10-1-48	DRAWN H.E.B.	CHECKED R.L.C.	JOB NO. Q-40-A	SHEET NUMBER 631 TYPE-A
SCALE AS SHOWN	CUSTOMER'S ORDER	DETAILER'S NUMBER		

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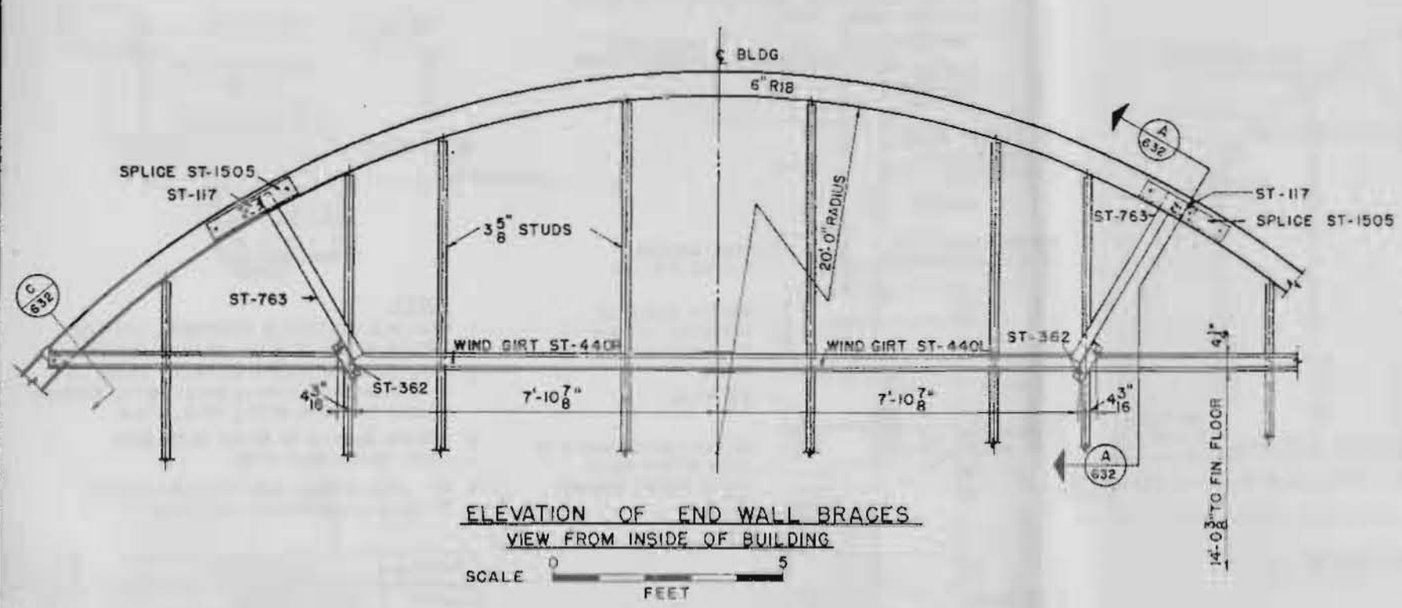
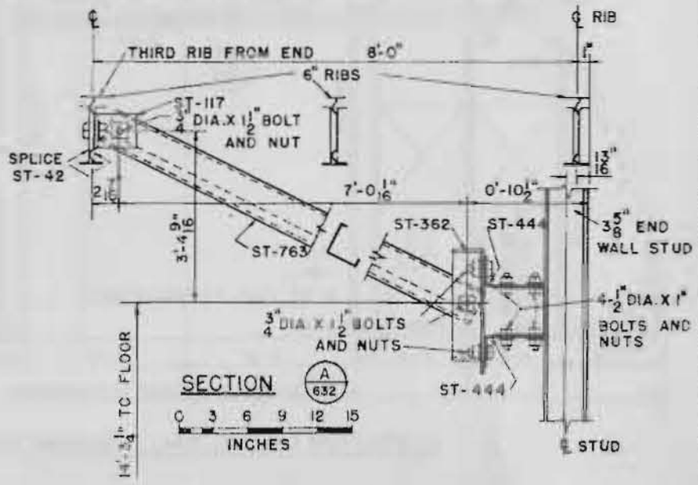


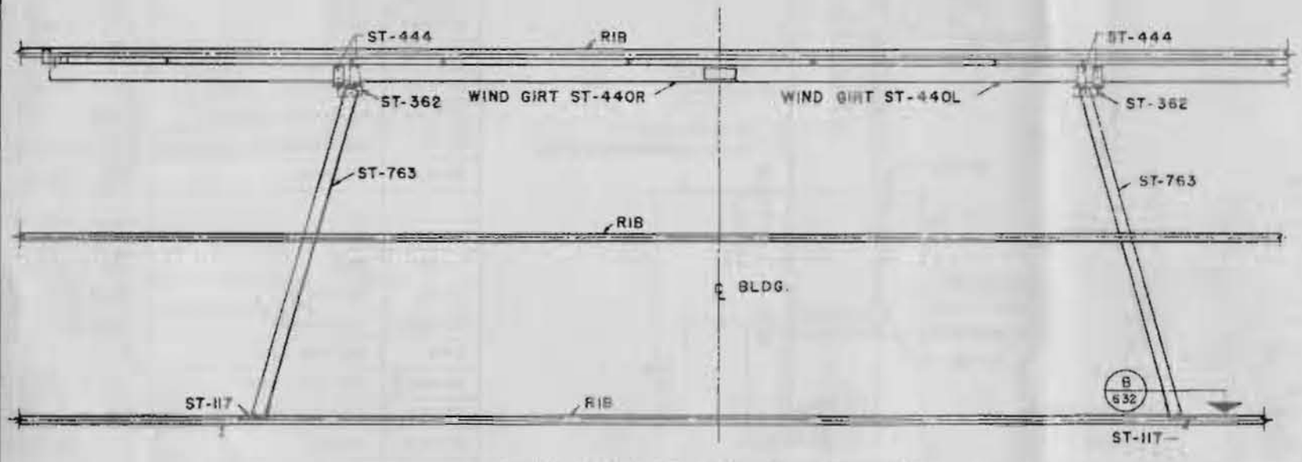
ELEVATION OF END WALL BRACES
VIEW FROM INSIDE OF BUILDING

SCALE 0 5 FEET



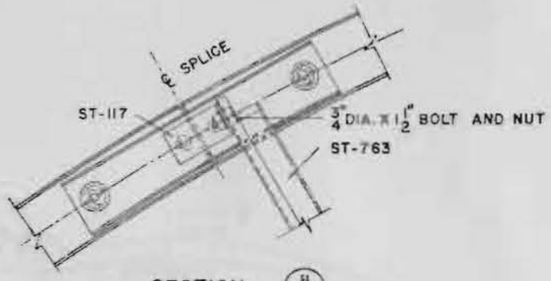
SECTION A 632

0 3 6 9 12 15 INCHES



ROOF PLAN OF END WALL BRACES
(WITH PURLINS REMOVED)

SCALE 0 5 FEET

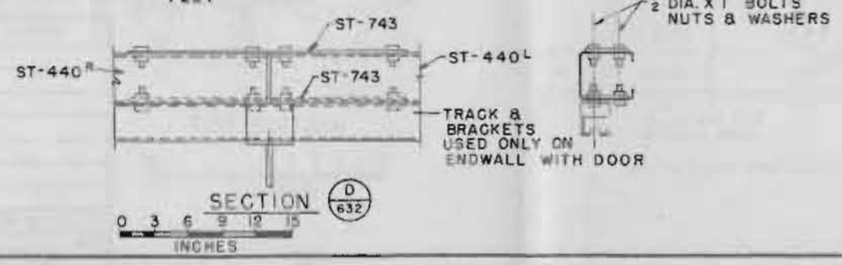


SECTION H 632

SCALE 0 3 6 9 12 15 INCHES

SECTION C 632

SCALE 0 3 6 9 12 15 INCHES



SECTION D 632

0 3 6 9 12 15 INCHES

PIECE MARK	DESCRIPTION	SIZE AND GAGE
ST-117	BRACE ANGLE	5 1/2" X 3 1/2" X 8 GA. L
ST-362	BRACE ANGLE	2 1/2" X 2 1/2" X 8 GA. L
ST-444	BRACE CLIP	5 1/2" X 2 3/4" X 8 GA. L
ST-763	BRACE	3" X 3" X 3/16" X 14 GA.

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

QUONSET 40 BUILDING
40 FT. LONG AND LONGER
TYPE "A"
END WALL WIND BRACES

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	O.H.L.	L.K.	Q-40-A	632 TYPE-A
SCALE AS NOTED	CUSTOMER'S ORDER	ESTIMATE NUMBER		

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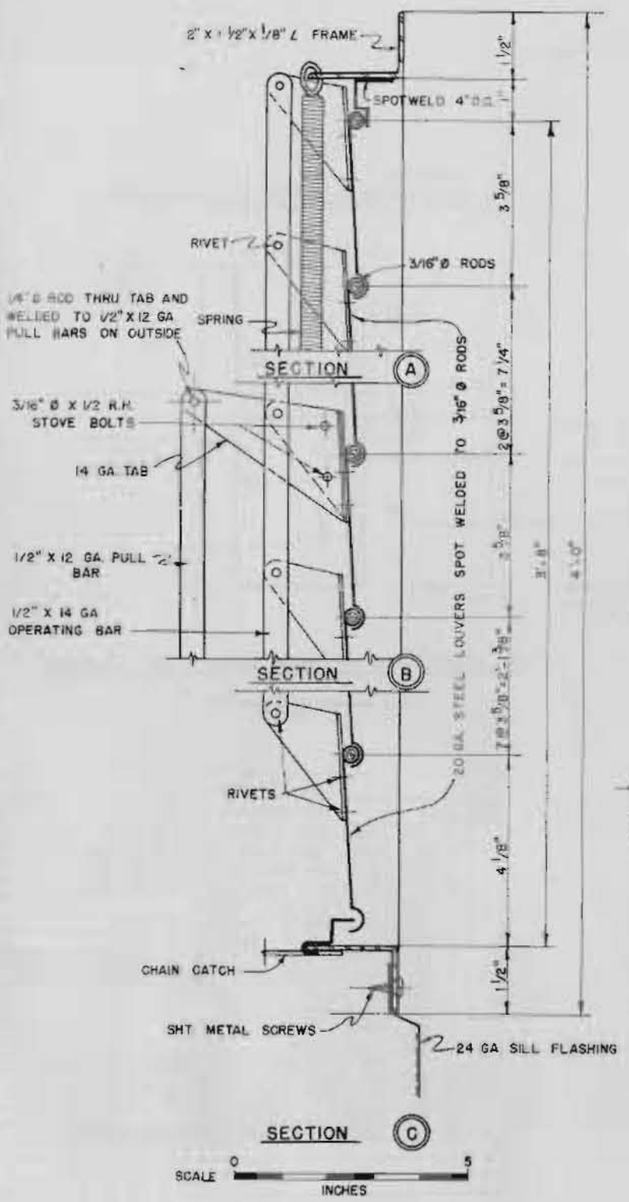
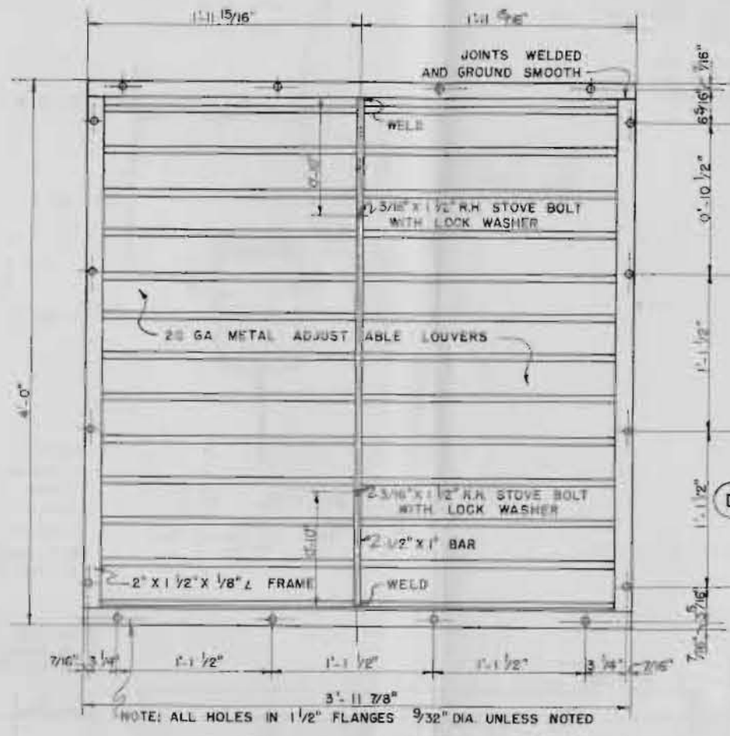
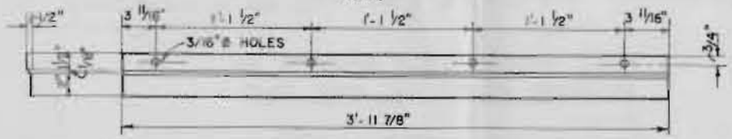


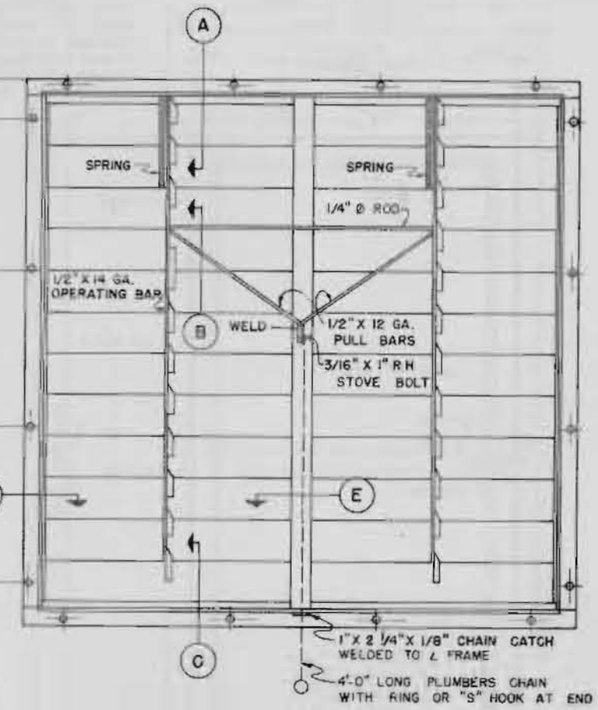


ELEVATION - FRONT OF LOUVER

SCALE 0 3 6 9 12 15
INCHES

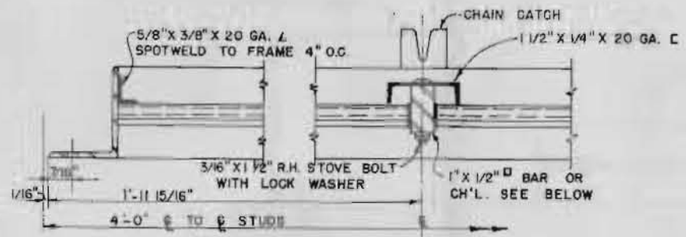


24 GA. GALV. SILL FLASHING



ELEVATION - BACK OF LOUVER

SCALE 0 3 6 9 12 15
INCHES



ALTERNATE SECTION

NOTE:
ENTIRE LOUVER AND FLASHING EXCEPT 1" X 1/2" MULLION BAR, ANGLE FRAME, SPRINGS AND PULL BAR TO BE BRIGHT GALVANIZED. (IF 1/2" X 1" X 16 GA. C IS USED, SAME TO BE BRIGHT GALVANIZED). PARTS WHICH ARE NOT TO BE GALV. SHALL HAVE ONE COAT OF ALUMINUM PAINT.

BILL OF MATERIALS

NO REQ.	PART NO.	DESCRIPTION
1		ADJUSTABLE STEEL LOUVER IN FRAME WITH DETACHABLE PULL BAR & CHAIN ASSY. AS DETAILED
1		SILL FLASHING 24 GA.
14		3/16" X 1" R.H. STOVE BOLTS WITH WASHERS & NUTS
5		3/16" X 1/2" R.H. STOVE BOLTS WITH WASHERS & NUTS
2		3/16" X 1 1/2" R.H. STOVE BOLTS WITH WASHERS & NUTS
4	ST-55	CORR. STRIP 2'-4" LG.

DIVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN
	LOUVER ASSEMBLY 4'-0" X 4'-0" STEEL LOUVER
(4) REV. 10-1-48	
(3) REDRAWN 8-1-48	
DATE 5-13-47	DRAWN O.H.L. / CHECKED L. K. / JOB NO. / SHEET NUMBER AST-3
SCALE AS NOTED	CUSTOMER'S ORDER / ESTIMATE NUMBER

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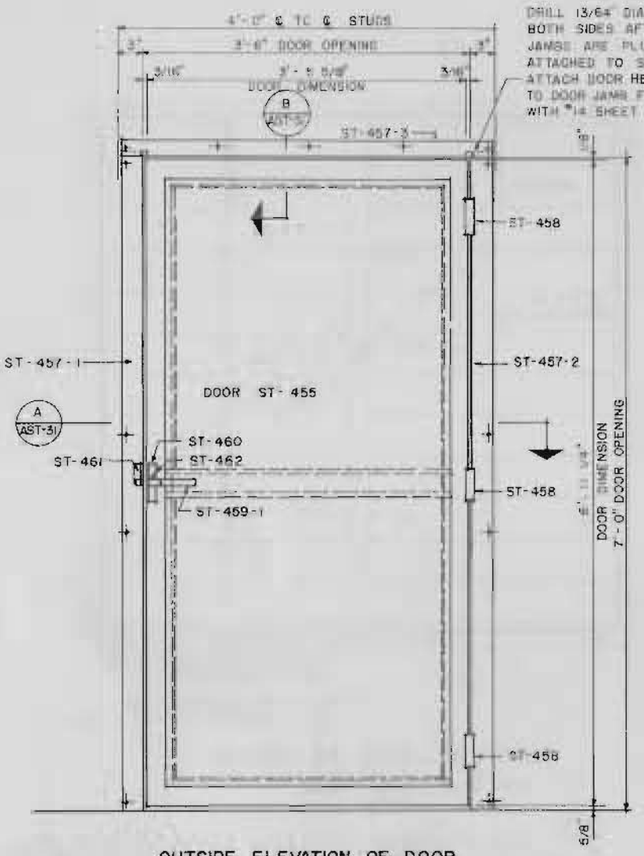
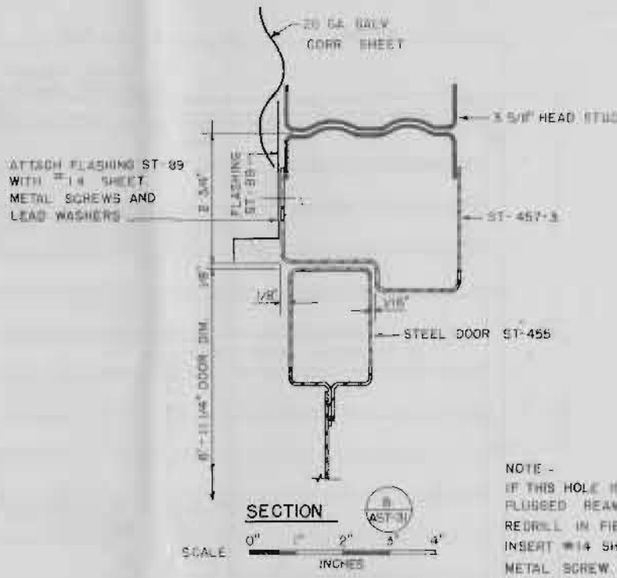


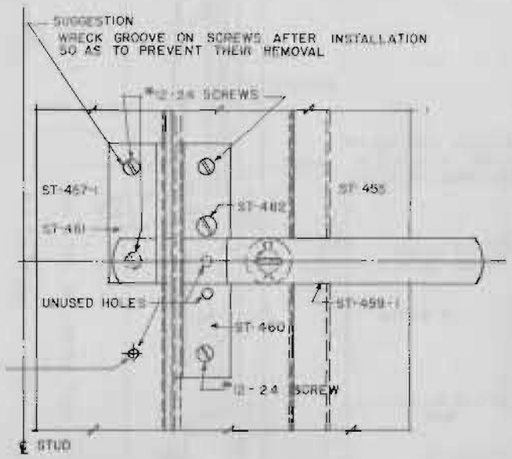
OUTSIDE ELEVATION OF DOOR

SCALE 0' 1' 2' FEET



SECTION

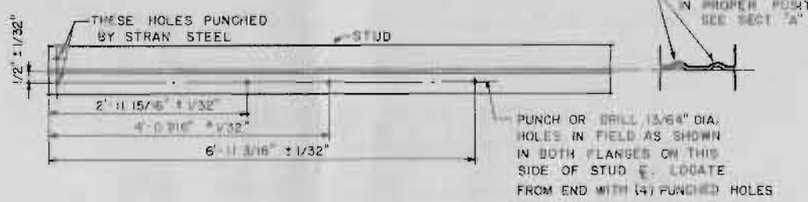
SCALE 0" 1" 2" 3" 4" INCHES



NOTE -
IF THIS HOLE IS TO BE PLUGGED REAM OR REDRILL IN FIELD AND INSERT #14 SHEET METAL SCREW. (HOLE SIZE NEEDED 13/64" DIA.)

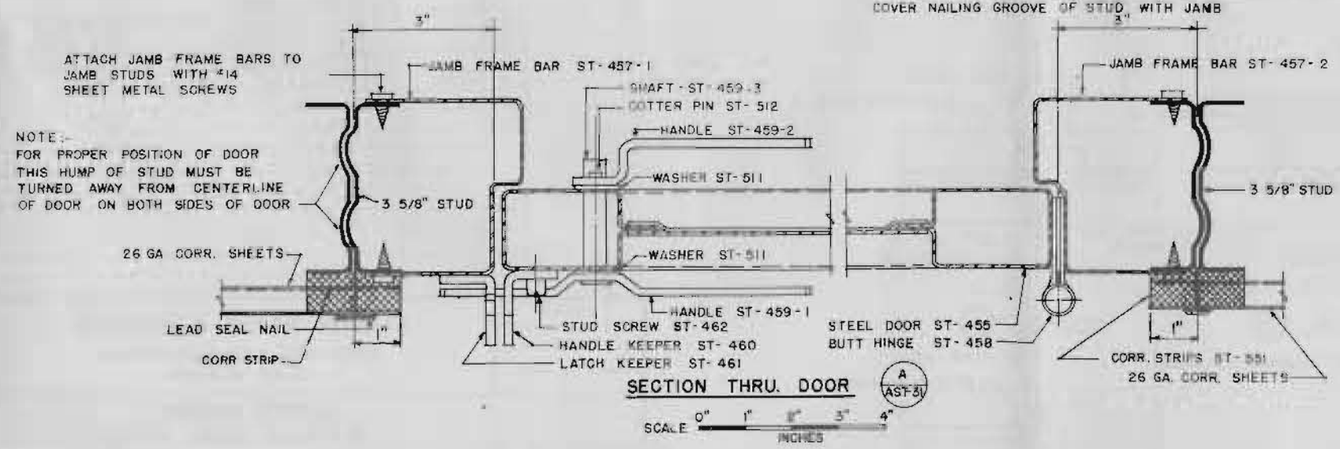
ENLARGED VIEW OF DOOR HANDLE AND KEEPERS

SCALE 0" 1" 2" 3" 4" INCHES



DETAIL SHOWING FIELD PUNCHING OF ADDITIONAL HOLES FOR JAMB STUD

CAUTION -
FOR PROPER ALIGNMENT OF DOORS PUNCH STUDS IN FIELD WITH CARE. USE DOOR JAMBS AS TEMPLATE, FIT DOOR JAMB TO STUD, BUT DO NOT COVER NAILING GROOVE OF STUD WITH JAMB



SECTION THRU. DOOR

A AST-31

SCALE 0" 1" 2" 3" 4" INCHES

BILL OF MATERIAL

NO. REQD	PIECE MARK	DESCRIPTION
1	ST-455	STEEL DOOR 3'-5 5/8" X 6'-11 1/4" X 1 3/4"
1	ST-457-1	HANDLE JAMB FRAME BAR 7'-0 3/8" LONG
1	ST-457-2	BUTT JAMB FRAME BAR 7'-0 3/8" LONG
1	ST-457-3	DOOR HEAD FRAME BAR 3'-11 1/2" LONG
3	ST-458	4 1/2 X 4 1/2 BUTT HINGE
1	ST-459-1	DOOR HANDLE - OUTSIDE - 8" LONG
1	ST-459-2	DOOR HANDLE - INSIDE - 3 1/8" LONG
1	ST-459-3	HANDLE SHAFT - 1/2" ℄ STEEL ROD ATTCHD TO ST-459-1
2	ST-511	S.A.E. STD. PLAIN WASHER 11/16" O.D. x 17/32" I.D. x 5/32" THICK
1	ST-512	COTTER PIN - 1/8" X 3/4" LONG
1	ST-460	DOOR HANDLE KEEPER
1	ST-461	DOOR LATCH KEEPER
1	ST-462	STUD SCREW
30	-	#12-24 F.H. SELF TAPPING SCREWS X 1/2" LONG
30	ST-570	#14 SHEET METAL SCREWS CAD. PLATED
1	ST-89	FLASHING - 20 GA. X 4'-3" LONG - GALV.
7	ST-551	CORR. STRIP 2"X28" LONG
6	ST-527	5/8" O.D. LEAD WASHER WITH 1/8" DIA. HOLE

REVISIONS
REV. 10-1-48
REDRAWN 6-1-48
DATE 3-13-47
SCALE AS NOTED

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

DOOR ASSEMBLY
3'-6" X 7'-0" SWING STEEL DOOR
FOR 3 5/8" STUD WALL

DRAWN O.H.L. | CHECKED L.K. | JOB NO. | SHEET NUMBER AST-31

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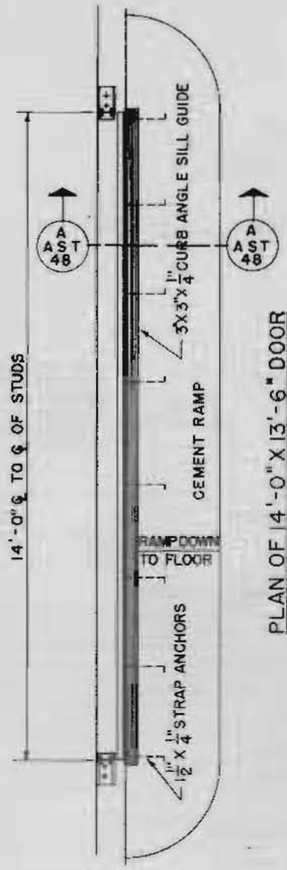
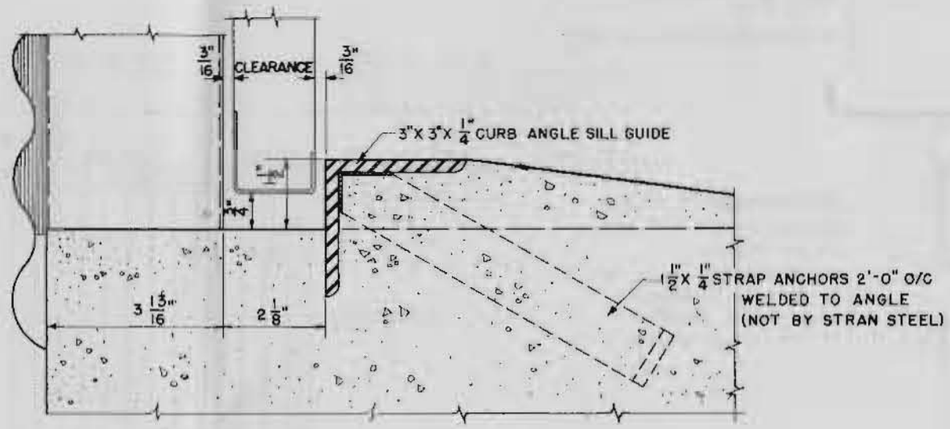


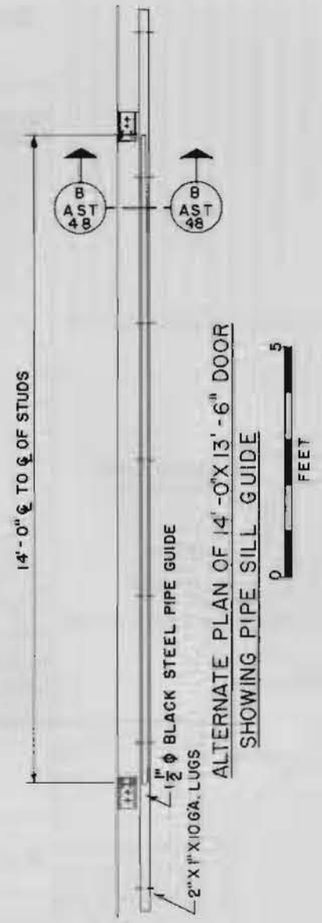
PLAN OF 14'-0" X 13'-6" DOOR
SHOWING ANGLE SILL GUIDE

0 5 FEET



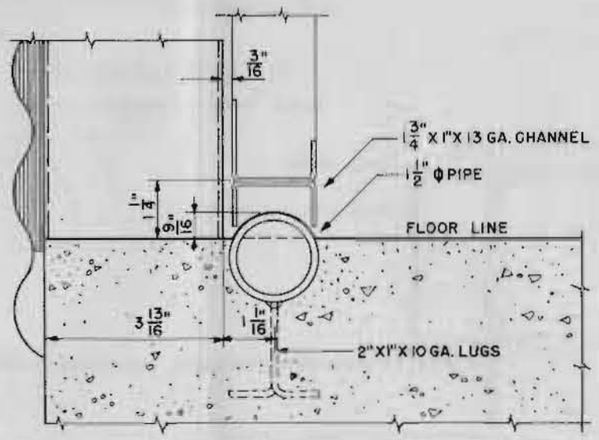
SECTION A AST 48

0 1 2 3 INCHES



ALTERNATE PLAN OF 14'-0" X 13'-6" DOOR
SHOWING PIPE SILL GUIDE

0 5 FEET



SECTION B AST 48

0 1 2 3 INCHES

BILL OF MATERIAL			
ANGLE SILL GUIDE			
	NO. REQ.	PIECE MARK	DESCRIPTION
NOT BY STRAN STEEL	1		3"X3"X 1/4" X 14'-2" LONG (SILL GUIDE
NOT BY STRAN STEEL	8		1 1/2" X 1/4" X 8" LONG (BENT STRAP ANCHORS)
ALTERNATE PIPE GUIDE			
NOT BY STRAN STEEL	2		1 3/4" X 1" X 13 GA. CHANNEL 7'-0" LG.
NOT BY STRAN STEEL	1		1 1/2" ϕ BLACK STEEL PIPE 20'-0" LG.
NOT BY STRAN STEEL	7		2"X1"X10 GA. LUGS 2 LG.

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN
	DOOR THRESHOLD
	SUGGESTED FIELD INSTALLATION
(2) REDRAWN 10-1-48	OF CURB ANGLES OR PIPE
(1) REDRAWN 6-1-48	FOR 14'X13'-6" SLIDING DOOR

DATE 6-11-47	DRAWN V.F.	CHECKED L.K.	JOB NO.	SHEET NUMBER
SCALE AS NOTED	CUSTOMERS ORDER	ESTIMATE NUMBER		AST-48

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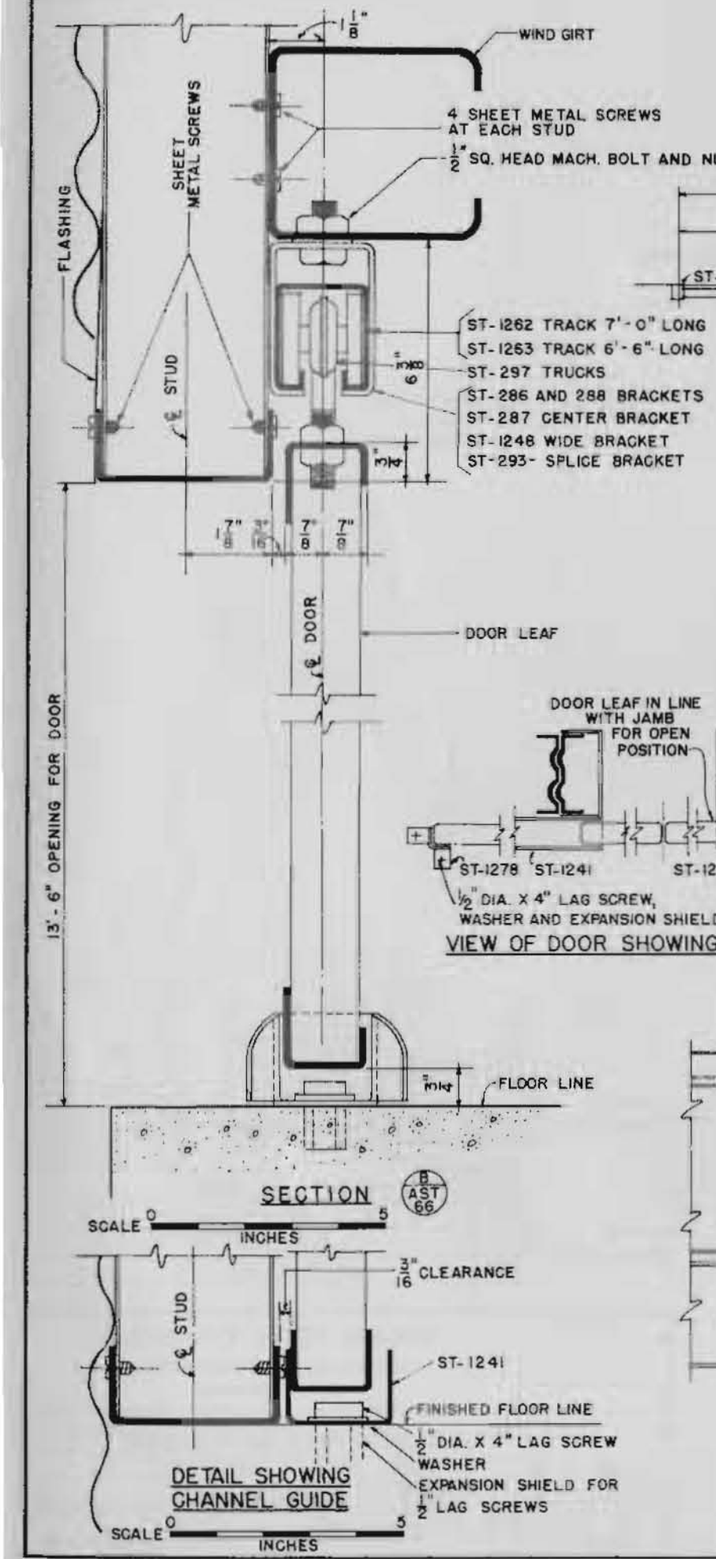

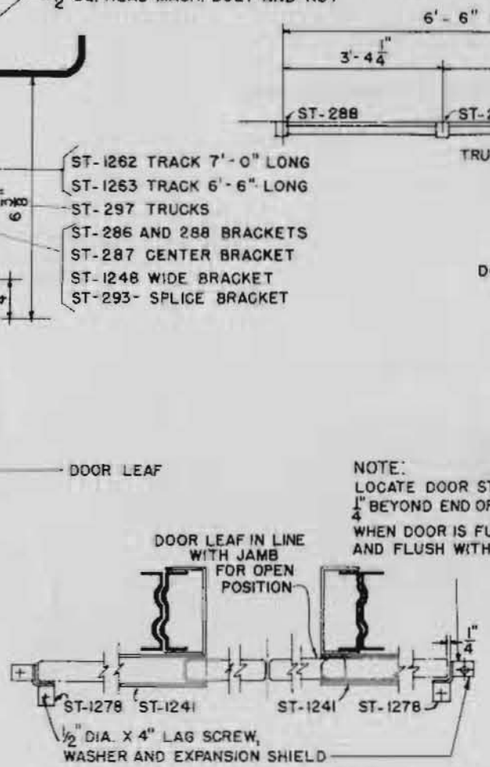

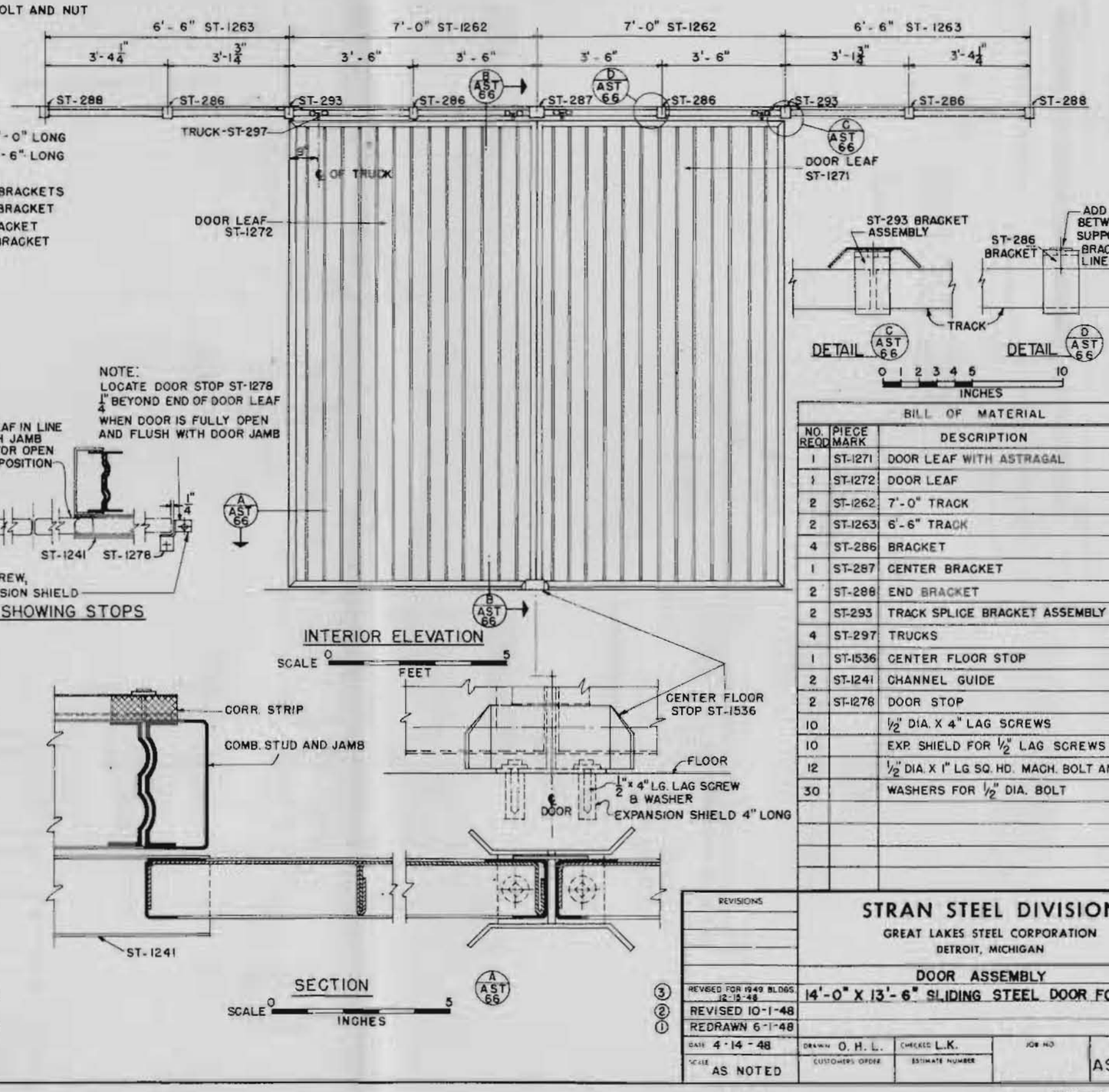

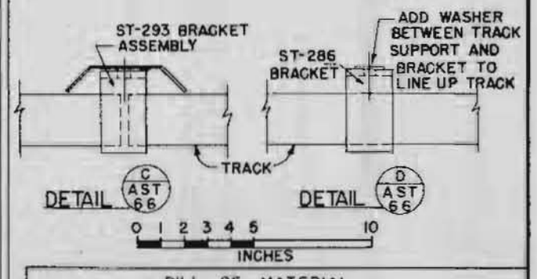

NOTE:
LOCATE DOOR STOP ST-1278 1/4" BEYOND END OF DOOR LEAF WHEN DOOR IS FULLY OPEN AND FLUSH WITH DOOR JAMB

BILL OF MATERIAL

NO. REQD	PIECE MARK	DESCRIPTION
1	ST-1271	DOOR LEAF WITH ASTRAGAL
1	ST-1272	DOOR LEAF
2	ST-1262	7'-0" TRACK
2	ST-1263	6'-6" TRACK
4	ST-286	BRACKET
1	ST-287	CENTER BRACKET
2	ST-288	END BRACKET
2	ST-293	TRACK SPLICE BRACKET ASSEMBLY
4	ST-297	TRUCKS
1	ST-1536	CENTER FLOOR STOP
2	ST-1241	CHANNEL GUIDE
2	ST-1278	DOOR STOP
10		1/2" DIA. X 4" LAG SCREWS
10		EXP. SHIELD FOR 1/2" LAG SCREWS 4" LONG
12		1/2" DIA. X 1" LG SQ. HD. MACH. BOLT AND NUT
30		WASHERS FOR 1/2" DIA. BOLT

REVISIONS
③ REVISED FOR 1949 BLDGS. 12-15-48
② REVISED 10-1-48
① REDRAWN 6-1-48

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

DOOR ASSEMBLY
14'-0" X 13'-6" SLIDING STEEL DOOR FOR O-40

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
4-14-48	O. H. L.	L.K.		AST-66
SCALE: AS NOTED	CUSTOMER'S ORDER	ESTIMATE NUMBER		

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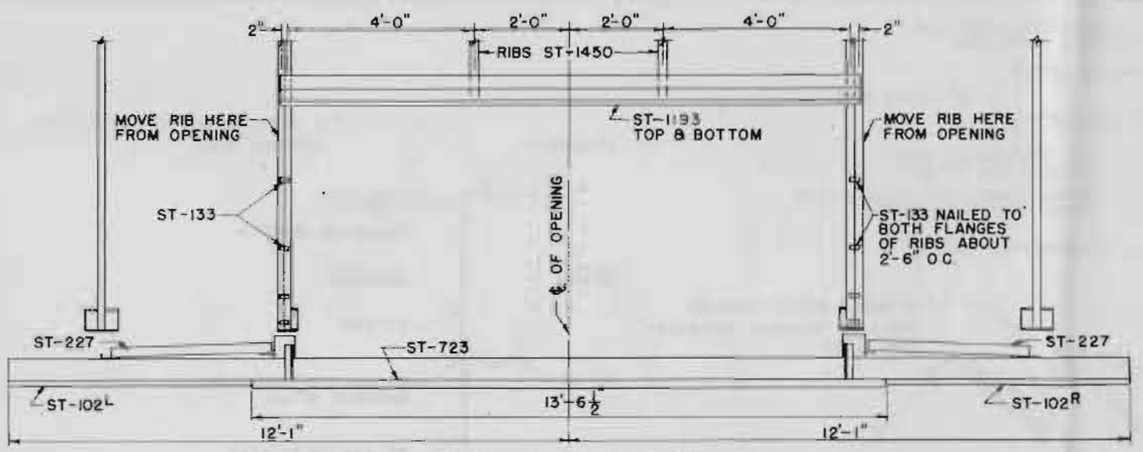
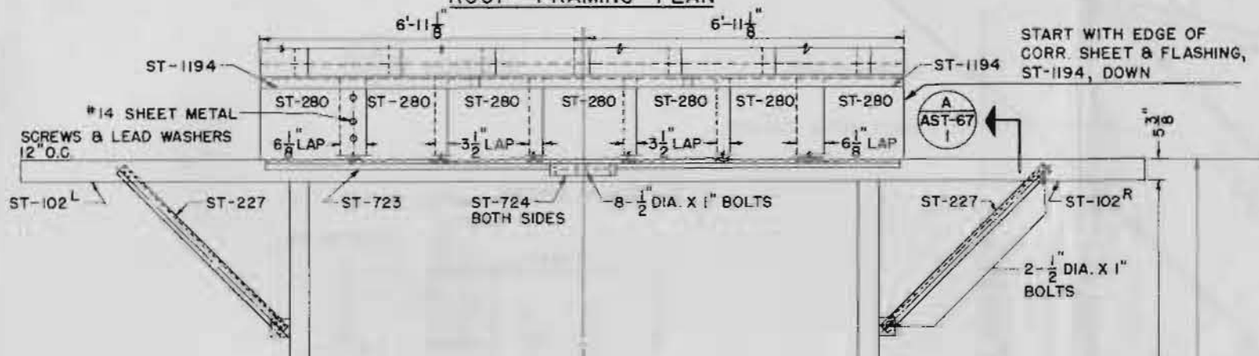


ROOF FRAMING PLAN



OUTSIDE ELEVATION

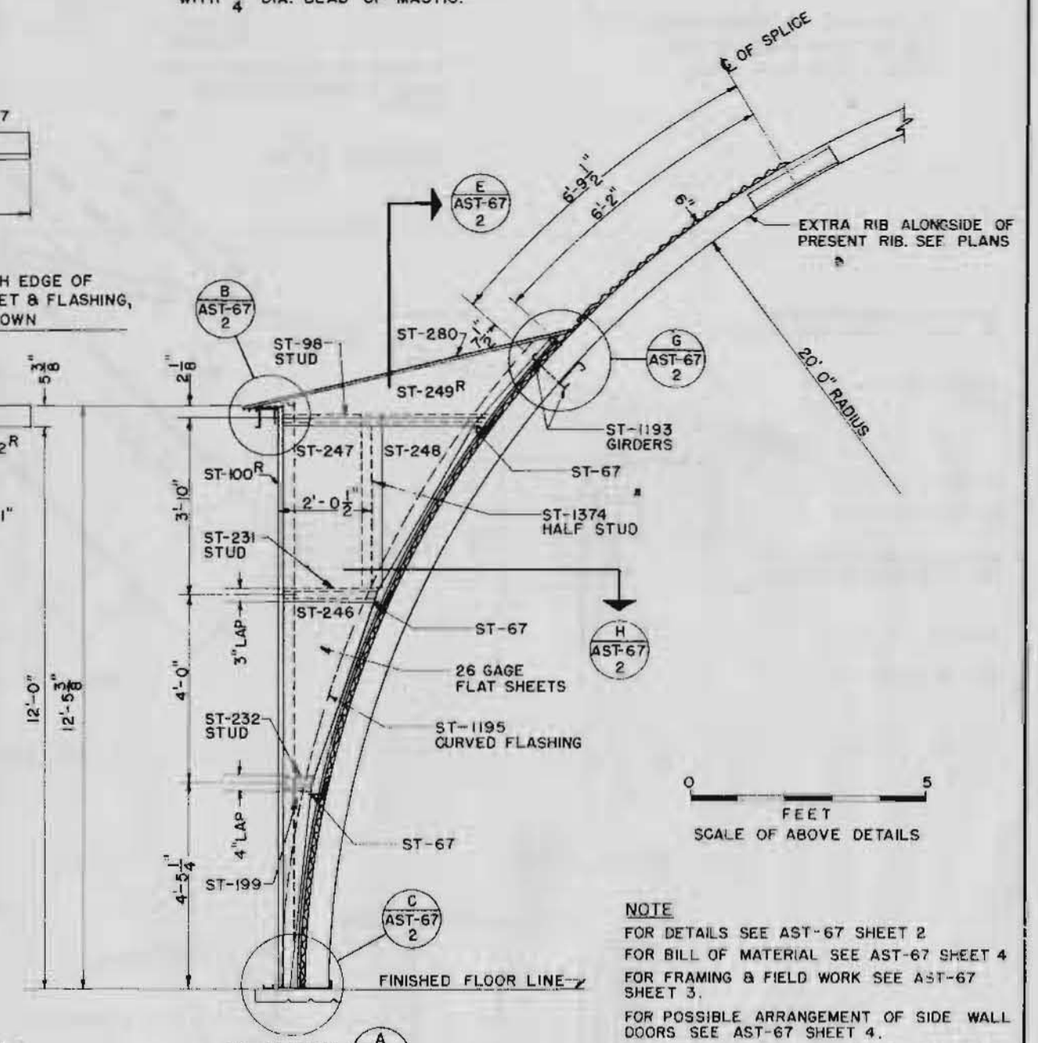
START WITH EDGE OF CORR. SHEET & FLASHING, ST-1194, DOWN

NOTE

FASTEN FLAT SHEETS TO STUD WITH 6d GALVANIZED NAILS WITH LEAD WASHERS 8" O.C.

LAPS OF FLAT SHEETS NOT ON STUD TO RECEIVE #14 SHEET METAL SCREWS & LEAD WASHERS 8" O.C.

SEAL ALL VERTICAL & HORIZONTAL LAPS OF FLAT SHEETS & FLASHING WITH ¼" DIA. BEAD OF MASTIC.



SECTION

0 5
FEET
SCALE OF ABOVE DETAILS

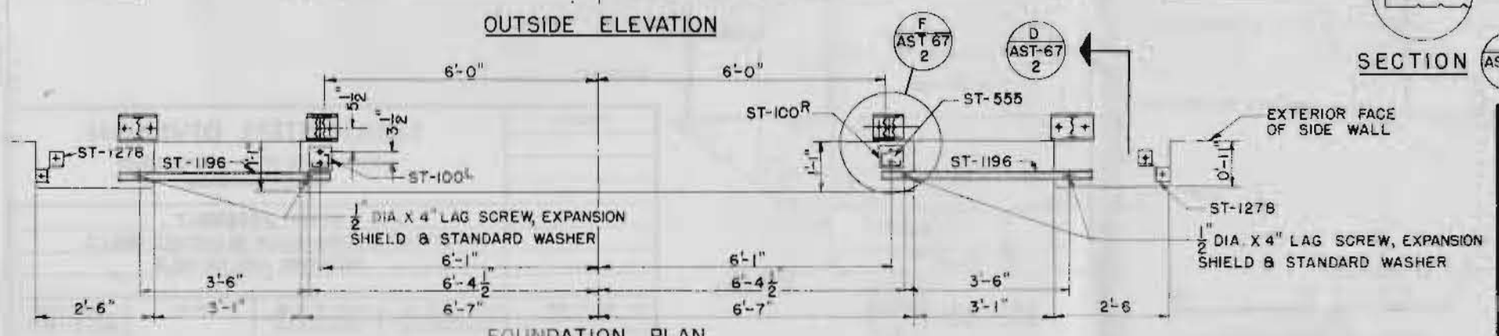
NOTE

FOR DETAILS SEE AST-67 SHEET 2

FOR BILL OF MATERIAL SEE AST-67 SHEET 4

FOR FRAMING & FIELD WORK SEE AST-67 SHEET 3.

FOR POSSIBLE ARRANGEMENT OF SIDE WALL DOORS SEE AST-67 SHEET 4.



FOUNDATION PLAN

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN			
	DOOR ASSEMBLY 12' X 12' SLIDING DOOR IN CURVED WALLS			
	PLAN, FRONT AND SIDE ELEVATION			
DATE 10-1-48	DRAWN H.E.B.	CHECKED H.R.M	JOB NO.	SHEET NUMBER AST-67 SHEET 1 OF 4
SCALE AS SHOWN	CUSTOMERS ORDER	ESTIMATE NUMBER		

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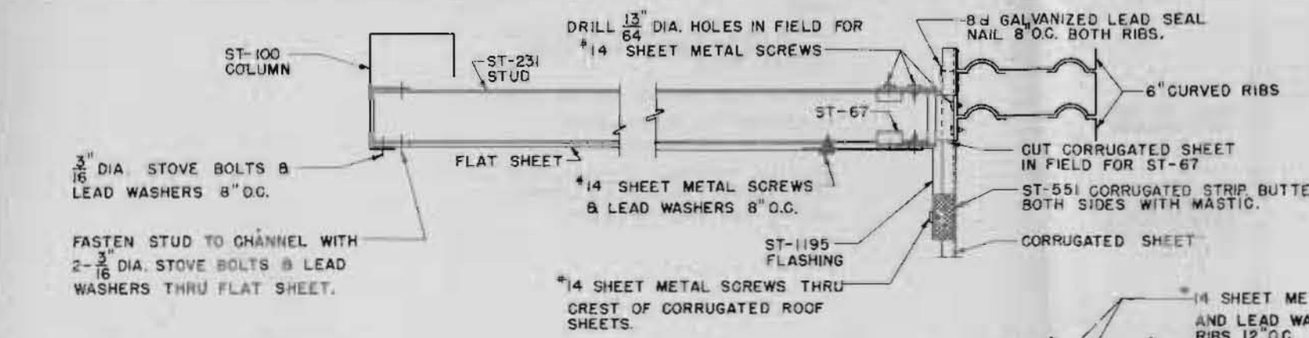
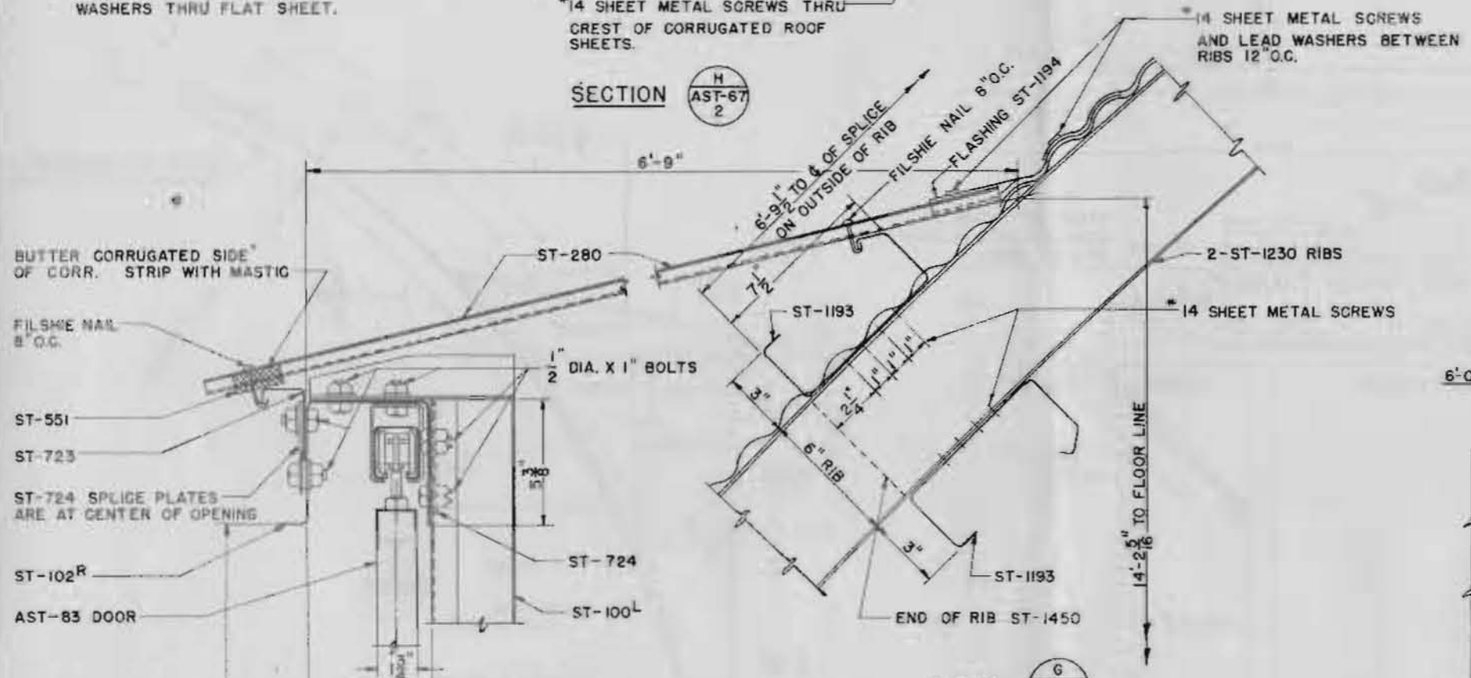


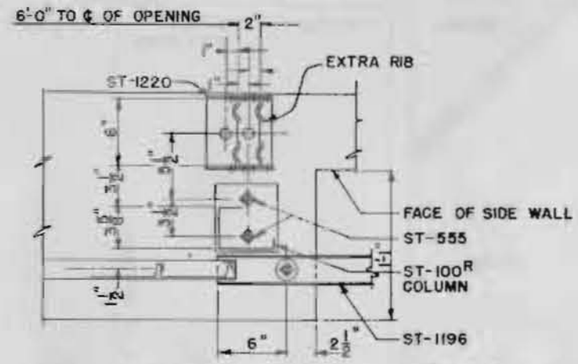
SECTION H AST-67 2



DETAIL G AST-67 2

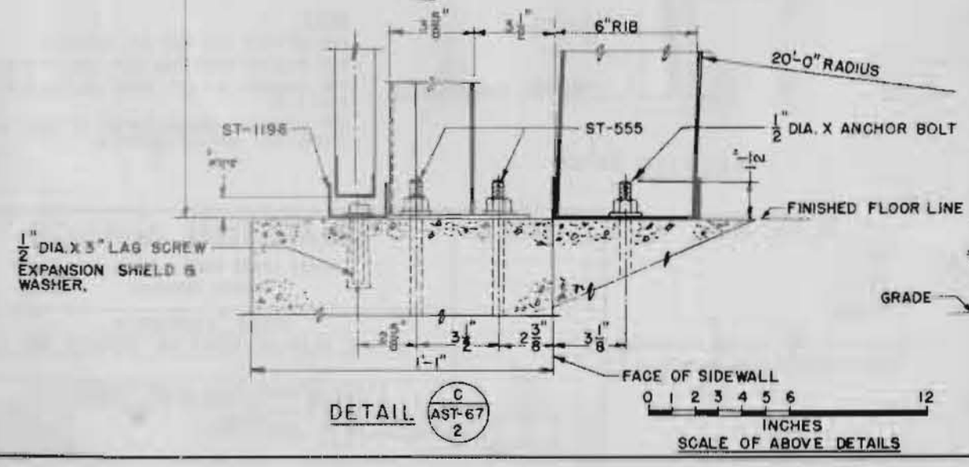
DETAIL B AST-67 2

SECTION E AST-67 2



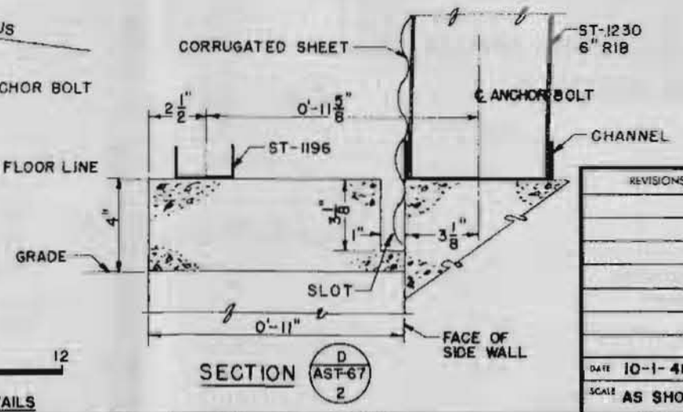
DETAIL PLAN AT DOOR JAMB F AST-67 2

0 3 6 9 12
INCHES



DETAIL C AST-67 2

0 1 2 3 4 5 6 12
INCHES
SCALE OF ABOVE DETAILS



SECTION D AST-67 2

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN			
	DOOR ASSEMBLY 12'X12' SLIDING DOOR IN CURVED WALLS. SECTIONS AND DETAILS			
DATE 10-1-48	DRAWN H.E.B.	CHECKED H.R.M.	JOB NO.	SHEET NUMBER AST-67 SHEET 2 OF 4
SCALE AS SHOWN	CUSTOMERS ORDER	ESTIMATE NUMBER		

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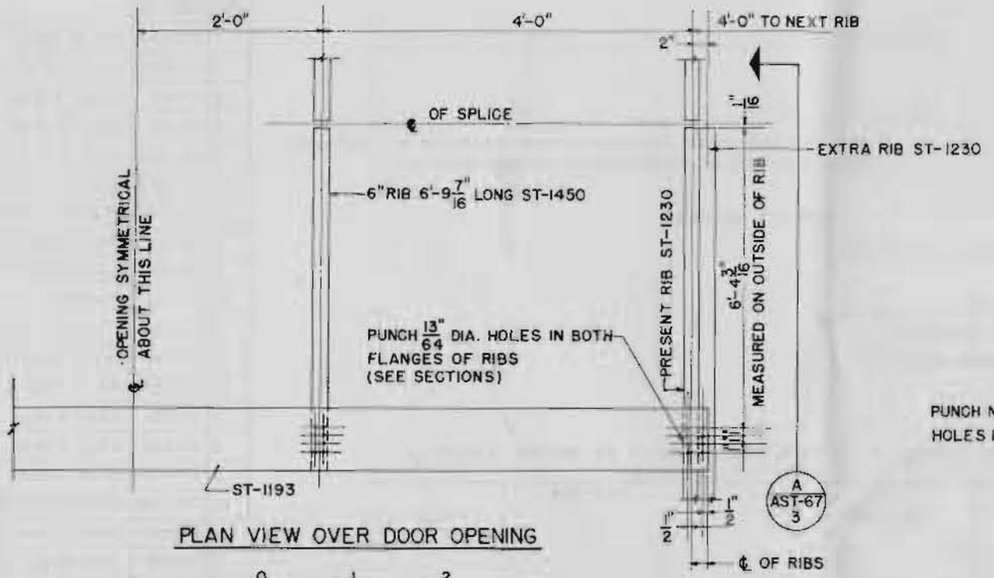
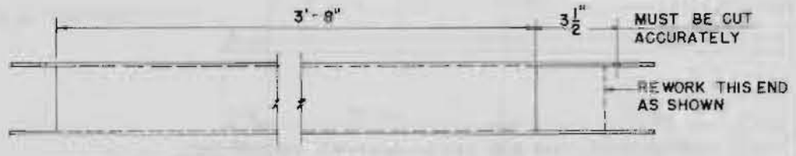


PLAN VIEW OVER DOOR OPENING

0 1 2
FEET



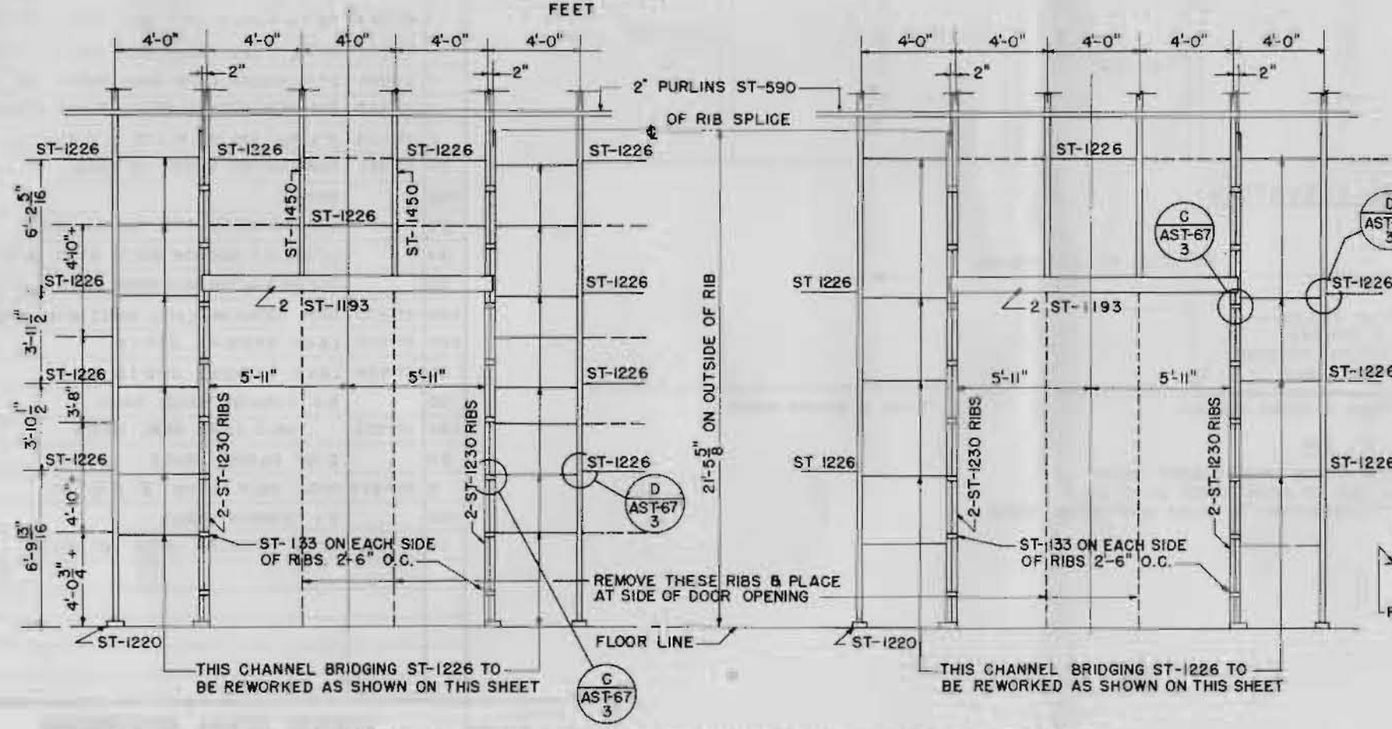
CHANNEL BRIDGING ST-1226 REWORKED

THIS REWORKING IS NECESSARY BECAUSE OF EXTRA RIB

DETAIL C AST-67 3

DETAIL D AST-67 3

0 1 2 3 4 5 6 12
INCHES



DEVELOPED VIEW OF RIBS & CHANNEL BRIDGING AROUND DOOR OPENINGS

TYPE "B" BUILDING

0 5 10
FEET

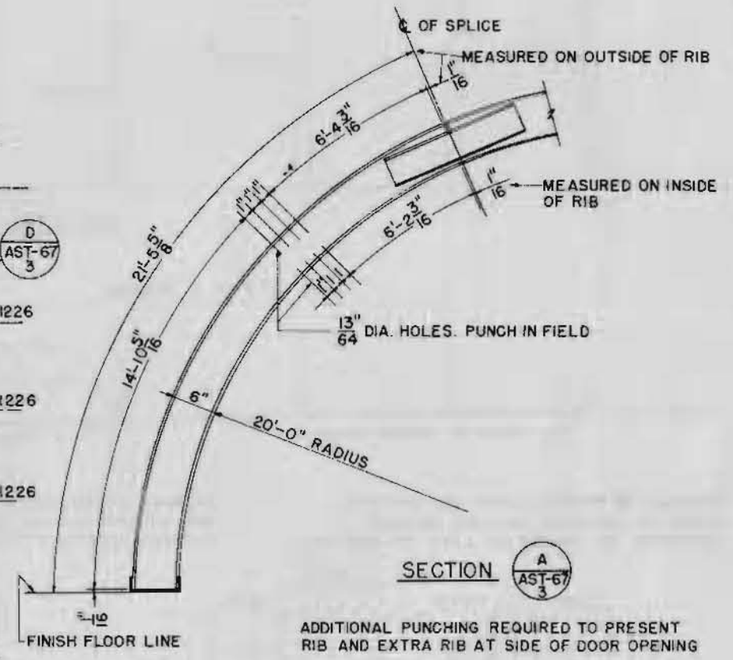
TYPE "A" BUILDING

NOTE

CHANNEL BRIDGING SHOWN DOTTED IS THE CONDITION WHEN DOOR OPENING IS ON OPPOSITE SIDE. PLACE SAME NUMBER OF CHANNEL BRIDGING IN BOTH 4'-0" SPACES ADJACENT TO DOOR OPENING AS SHOWN.

NOTE:-

FOR LOCATION OF CHANNEL BRIDGING ST-1226 SEE CROSS SECTION OF THE BUILDING.



SECTION A AST-67 3

ADDITIONAL PUNCHING REQUIRED TO PRESENT RIB AND EXTRA RIB AT SIDE OF DOOR OPENING

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN	
	DOOR ASSEMBLY	
	12'X12' SLIDING DOOR IN CURVED WALLS.	
	FRAMING, FIELD WORK	
DATE 10-1-48	DRAWN H.E.B	CHECKED H.R.M.
SCALE AS SHOWN	CUSTOMER'S ORDER	ESTIMATE NUMBER
JOB NO.	SHEET NUMBER AST-67 SHEET 3 OF 4	

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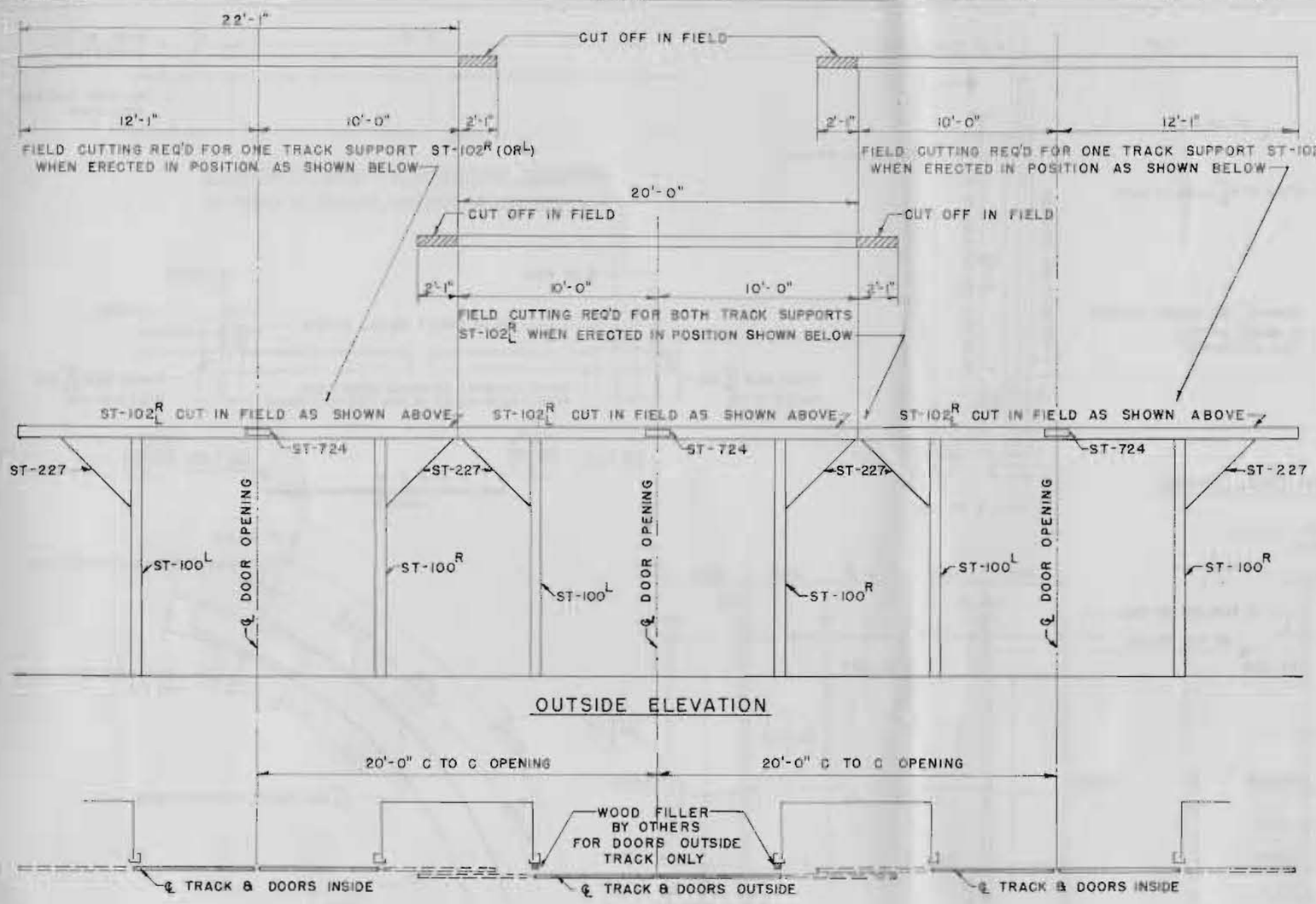
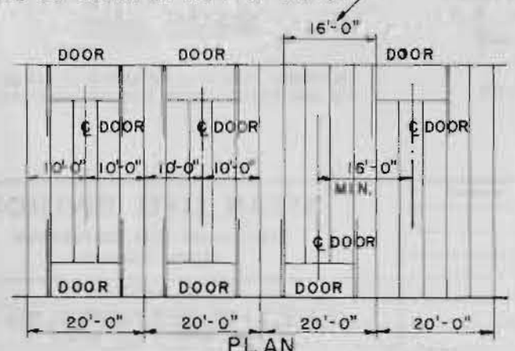


MINIMUM BETWEEN DOORS ON OPPOSITE SIDES OF BUILDING UNLESS PLACED OPPOSITE AS SHOWN AT LEFT OF SKETCH

SHOWING ARRANGEMENT WHERE TWO OR MORE DOORS ARE LOCATED ALONG SIDE OF EACH OTHER 20'-0" O.C. SHOWING NECESSARY ALTERATIONS TO BEAM SUPPORTING TRACK.



PLAN

SHOWING HOW DOORS MAY BE PLACED ON OPPOSITE SIDE OF BUILDING

BILL OF MATERIAL

NO REQD	PIECE - MK	DESCRIPTION
1	AST-83	12'X12' DOOR ASSEMBLY COMPLETE
4	ST-555	1/2" DIA. X 10" LG. HOOKED ANCHOR BOLTS
6	ST-67	2 5/16" X 16 GA. RAFTER CLIP
2	ST-98	2 5/16" X 18 GA. STUD X 4'-6 3/4" LG.
2	ST-1193	7 1/2" X 3" X 12GA. C GIRDER 12'-4" LG.
1	ST-100R	WELDED COLUMN (SEE DETAIL)
1	ST-100L	WELDED COLUMN (SEE DETAIL)
1	ST-102R	5 3/8"X5 3/8"X1 3/8"X14GA. GIRDER X12'-0 7/8" LG.
1	ST-102L	5 3/8"X5 3/8"X1 3/8"X14GA. GIRDER X12'-0 7/8" LG.
32	ST-133	2" X 16 GA. PLATE X 0'-3" LG.
2	ST-1450	6" X 14 GA. CURVED RIB - 6'-9 7/16" LG.
2	ST-199	8 1/2" X 26GA. GALV. FLAT SHT X 55 1/4" LG.
2	ST-227	3" X 3" X 3/4" X 14 GA. BRACE 4'-11 1/2" LG.
2	ST-231	2 5/16" X 16 GA. STUD X 2'-4 1/8" LG.
2	ST-232	2 5/16" X 18 GA. STUD X 1'-0 1/4" LG.
3	ST-1194	26GA. CORR. GALV. FLASHING 5'-0 1/8" LG.
8	ST-1195	6 X 4" X 26 GA. GALV. FLASHING CURVED 51" LG.
2	ST-246	24 3/4" X 26GA. GALV. FLAT SHEET - 52" LG.
2	ST-247	25" X 26 GA. GALV. FLAT SHEET - 48" LG.
2	ST-248	30" X 26 GA. GALV. FLAT SHEET - 48" LG.
1	ST-249R	22 5/8" X 26 GA. GALV. BENT SHEET - 77 3/4" LG.
1	ST-249L	22 5/8" X 26 GA. GALV. BENT SHEET - 77 3/4" LG.
7	ST-280	27 1/2" X 22 GA. CORR. GALV. SHEET - 88" LG.
1	ST-723	2 1/2" X 2" X 3/4" X 14 GA. ANGLE PLATE - 13'-6 1/2" LG.
2	ST-724	4" X 3/16" SPLICE PLATE X 1'-4 1/2" LG.
20	ST-551	CORRUGATED STRIP - 28" LONG
2GAL		MASTIC
28		STD WASHERS FOR 1/2" DIA. BOLT
44		1/2" DIA. X 1" MACHINE BOLTS & SQ. NUTS
50		3/16" DIA. X 1/2" R.H. GALV. STOVE BOLTS & SQ. NUTS
330	ST-570	NO 14 CADMIUM PLATED SHEET METAL SCREWS
250	ST-527	LEAD WASHERS .250 I.D.
50	ST-526	LEAD WASHERS .160 I.D.
50		6 d COMMON NAILS GALV.
120	ST-525	GALV. LEAD SEAL NAILS
50		2 1/2" FILSHIE NAILS
2	ST-1374	16 GA. HALF STUD 3'-9 1/2" LG.
150		8 d COMMON NAILS
50	ST-528	LEAD WASHERS WITH .18" HOLES

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

DOOR ASSEMBLY
12'X12' SLIDING DOOR IN CURVED WALLS.
ARRANGEMENT OF ADJACENT DOORS

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	H. E. B.	H.R.M.		AST-67 SHEET 4 OF 4
SCALE NONE	CUSTOMERS ORDER	ESTIMATE NUMBER		

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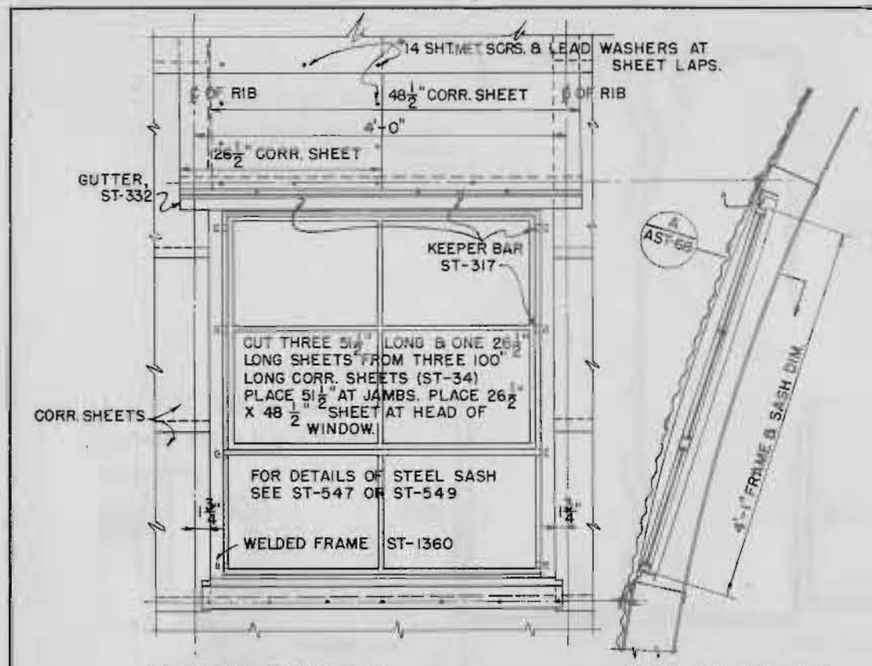
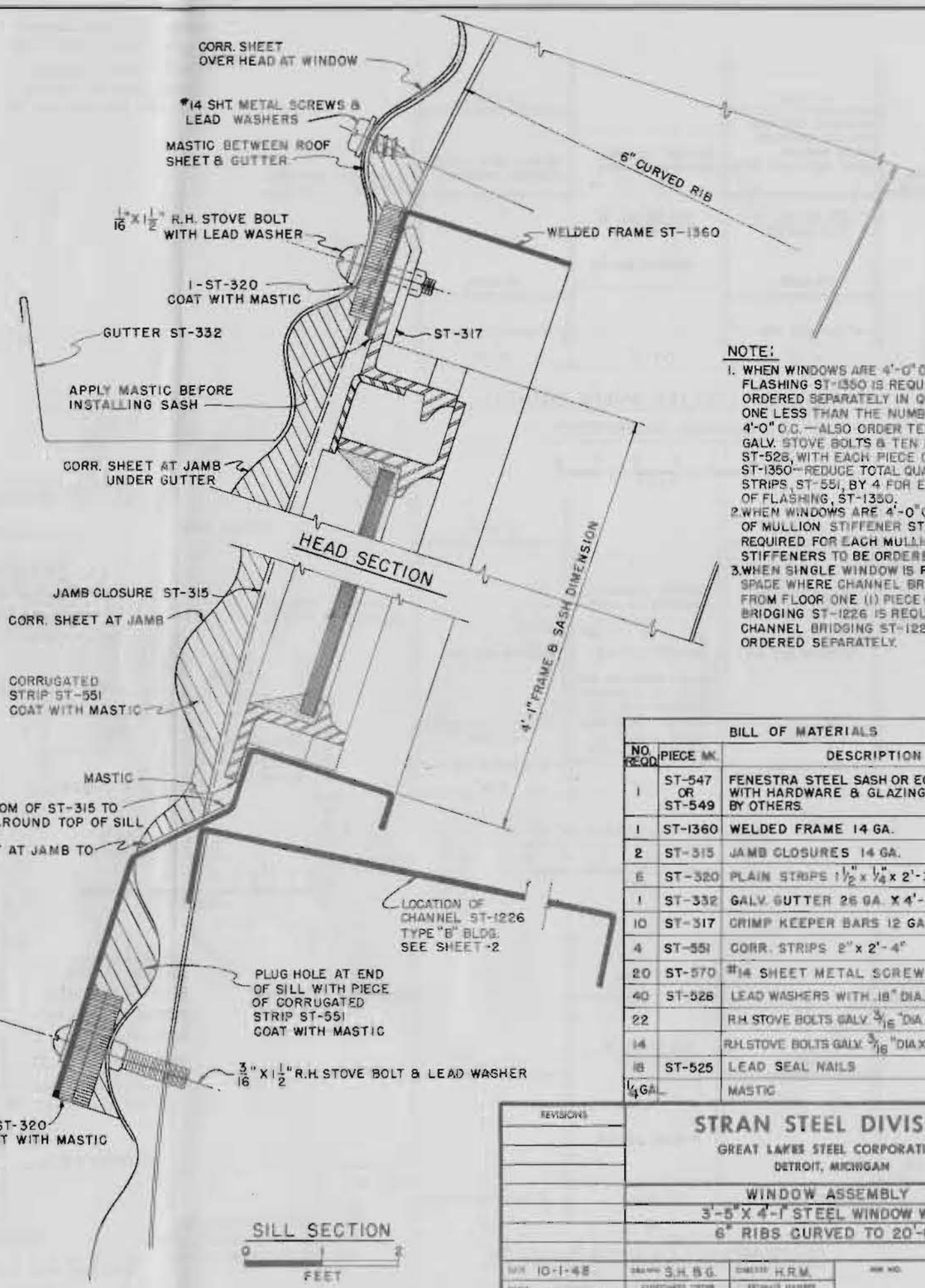


WINDOW ELEVATION

0 1 2 FEET

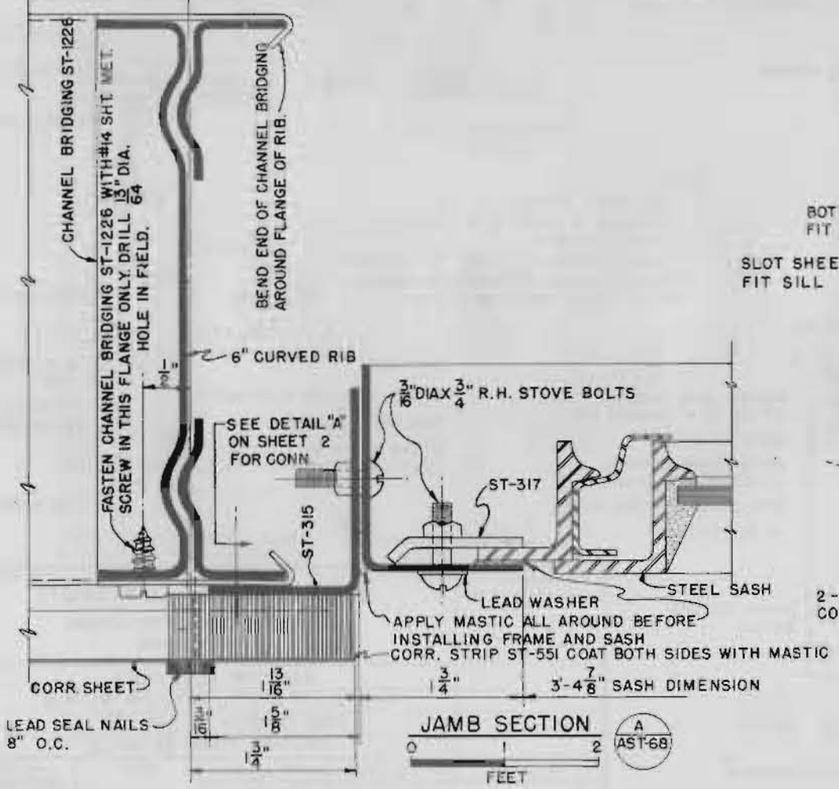
WINDOW SECTION

0 1 2 FEET



SILL SECTION

0 1 2 FEET



JAMB SECTION

A AST-68

0 1 2 FEET

NOTE:

1. WHEN WINDOWS ARE 4'-0" O.C. MULLION FLASHING ST-1350 IS REQUIRED TO BE ORDERED SEPARATELY IN QUANTITIES OF ONE LESS THAN THE NUMBER OF WINDOWS 4'-0" O.C. — ALSO ORDER TEN 3/16 Ø X 3/4 R.H. GALV. STOVE BOLTS & TEN LEAD WASHERS, ST-526, WITH EACH PIECE OF FLASHING, ST-1350 — REDUCE TOTAL QUANTITY OF CORR. STRIPS, ST-551, BY 4 FOR EACH PIECE OF FLASHING, ST-1350.
2. WHEN WINDOWS ARE 4'-0" O.C. ONE PIECE OF MULLION STIFFENER ST-1349 IS REQUIRED FOR EACH MULLION. MULLION STIFFENERS TO BE ORDERED SEPARATELY.
3. WHEN SINGLE WINDOW IS REQUIRED IN SPACE WHERE CHANNEL BRIDGING IS 6'-9 3/16" FROM FLOOR ONE (1) PIECE OF CHANNEL BRIDGING ST-1226 IS REQUIRED. CHANNEL BRIDGING ST-1226 TO BE ORDERED SEPARATELY.

BILL OF MATERIALS

NO. REQ'D.	PIECE MK.	DESCRIPTION
1	ST-547 OR ST-549	FENESTRA STEEL SASH OR EQUAL COMPLETE WITH HARDWARE & GLAZING CLIPS. GLASS BY OTHERS.
1	ST-1360	WELDED FRAME 14 GA.
2	ST-315	JAMB CLOSURES 14 GA.
6	ST-320	PLAIN STRIPS 1½" x ¼" x 2'-3" LG.
1	ST-332	GALV. GUTTER 26 GA. X 4'-4 5/8" LG.
10	ST-317	CRIMP KEEPER BARS 12 GA.
4	ST-551	CORR. STRIPS 2" x 2'-4"
20	ST-570	#14 SHEET METAL SCREWS
40	ST-526	LEAD WASHERS WITH .18" DIA. HOLE
22		R.H. STOVE BOLTS GALV. 3/16" DIA X 3/4" LG WITH NUTS
14		R.H. STOVE BOLTS GALV. 3/16" DIA X 1½" LG WITH NUTS
18	ST-525	LEAD SEAL NAILS
¼ GAL.		MASTIC

REVISIONS

STRAN STEEL DIVISION

GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

WINDOW ASSEMBLY
3'-5" X 4'-1" STEEL WINDOW WITH 6" RIBS CURVED TO 20'-0"

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	S.H. B.G.	H.R.M.		AST-68 SHEET 1 OF 2
SCALE AS SHOWN	QUOTATIONS CHECKED	ESTIMATE NUMBER		

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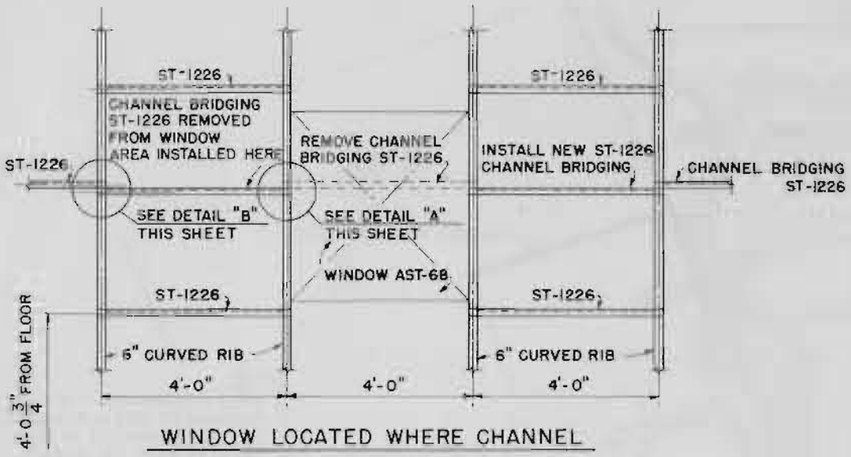
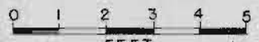
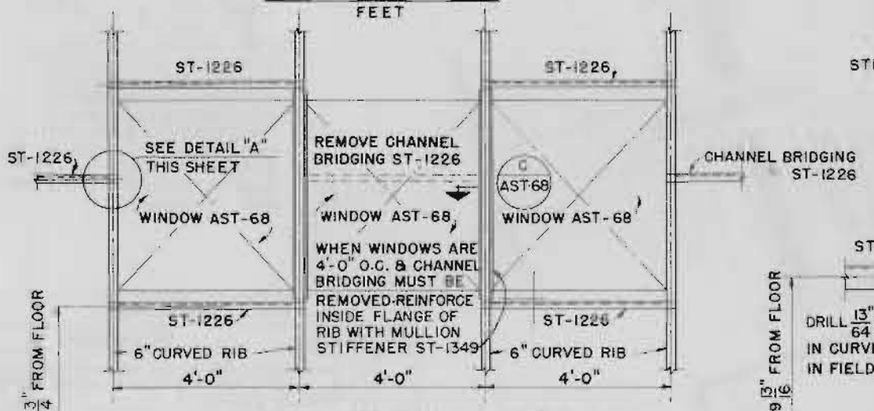
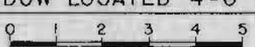


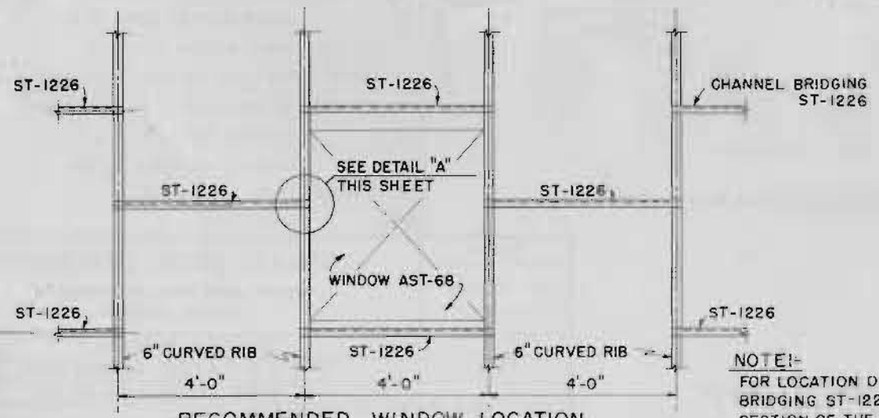
WINDOW LOCATED WHERE CHANNEL BRIDGING INTERFERES





WINDOW LOCATED 4'-0" O.C.

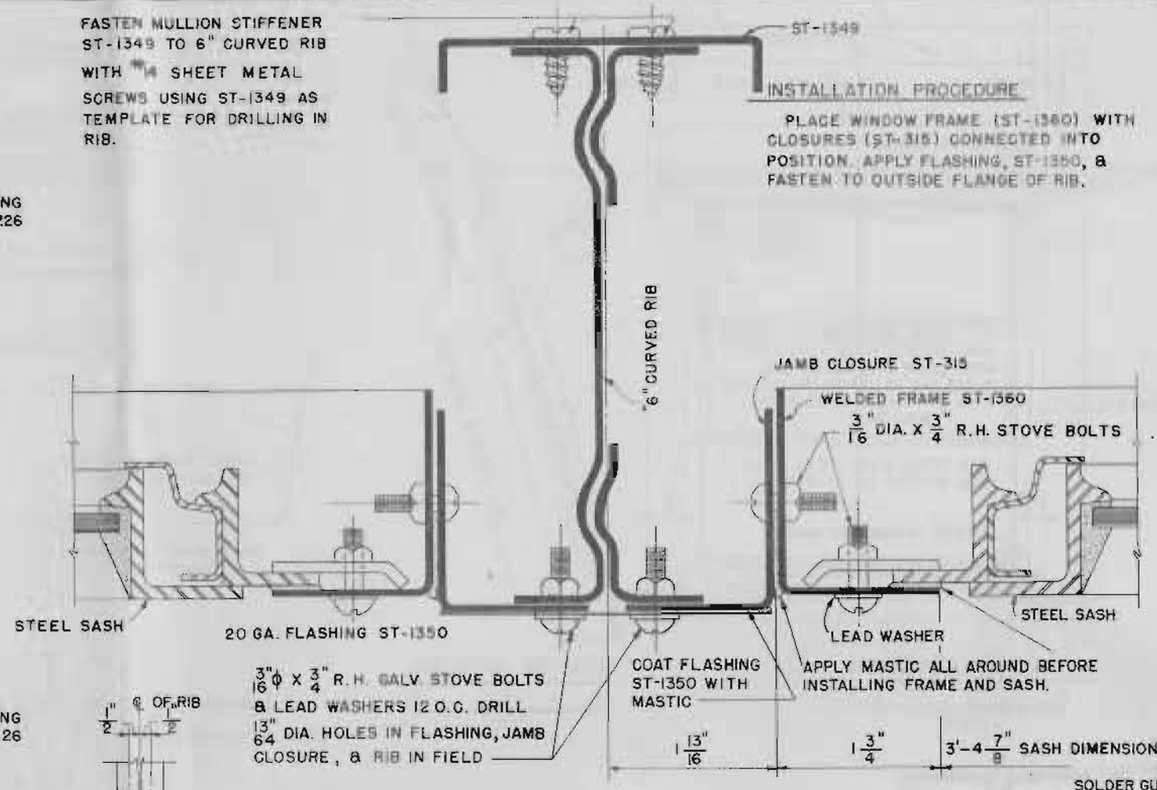




RECOMMENDED WINDOW LOCATION

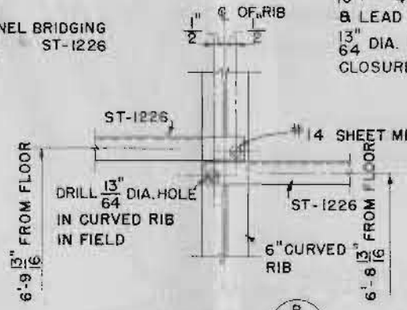
NOTE:- FOR LOCATION OF CHANNEL BRIDGING ST-1226 SEE CROSS SECTION OF THE BUILDING.

FASTEN MULLION STIFFENER ST-1349 TO 6" CURVED RIB WITH #14 SHEET METAL SCREWS USING ST-1349 AS TEMPLATE FOR DRILLING IN RIB.



INSTALLATION PROCEDURE

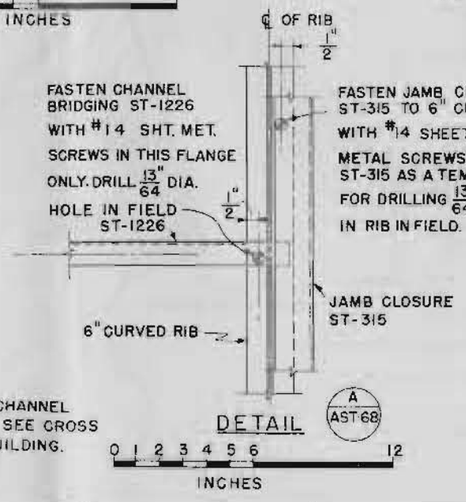
PLACE WINDOW FRAME (ST-1360) WITH CLOSURES (ST-315) CONNECTED INTO POSITION. APPLY FLASHING, ST-1350, & FASTEN TO OUTSIDE FLANGE OF RIB.



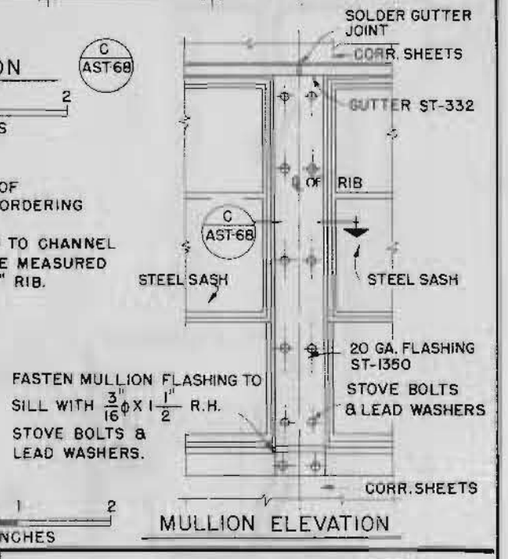
DETAIL B AST-68

SECTION C AST-68

NOTE:
1. SEE SHEET #1 FOR LIST OF MATERIALS & NOTES FOR ORDERING SEPARATE PARTS.
2. ALL DIMENSION SHOWN TO CHANNEL BRIDGING FROM FLOOR ARE MEASURED ON OUTSIDE FLANGE OF 6" RIB.



DETAIL A AST-68



0 1 2 INCHES

MULLION ELEVATION

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN			
	WINDOW ASSEMBLY 3'-5" X 4'-1" STEEL WINDOW WITH 6" RIBS CURVED TO 20'-0". INSTALLATION DETAILS			
DATE 10-1-48	DRAWN S.H. & G.	CHECKED H.R.M.	JOB NO.	SHEET NUMBER AST-68 SHEET 2 OF 2
SCALE AS SHOWN	CUSTOMER'S ORDER	ESTIMATE NUMBER		

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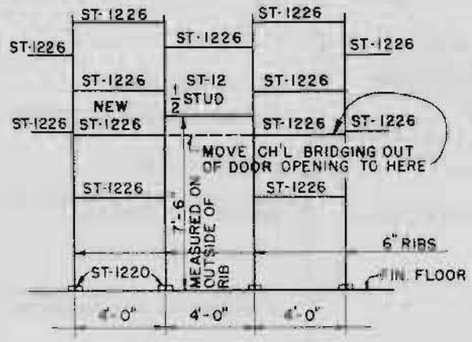
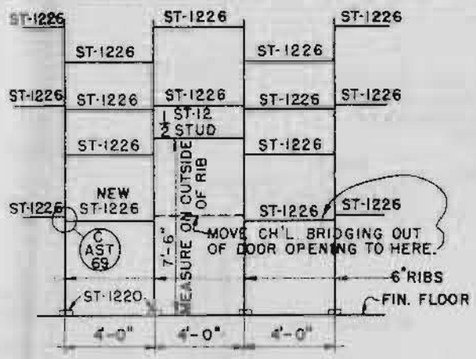


DEVELOPED VIEW OF FRAMING AROUND DOOR OPENING ON ONE SIDE OF BUILDING

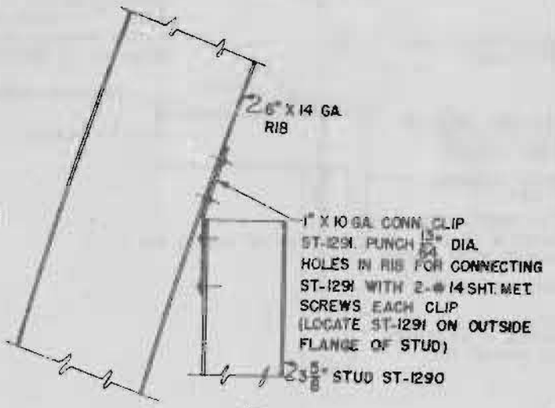
0 2 4 8 FEET

NOTE:-
FOR LOCATION OF CHANNEL BRIDGING ST-1226 SEE CROSS SECTION DRAWING OF THE BUILDING.



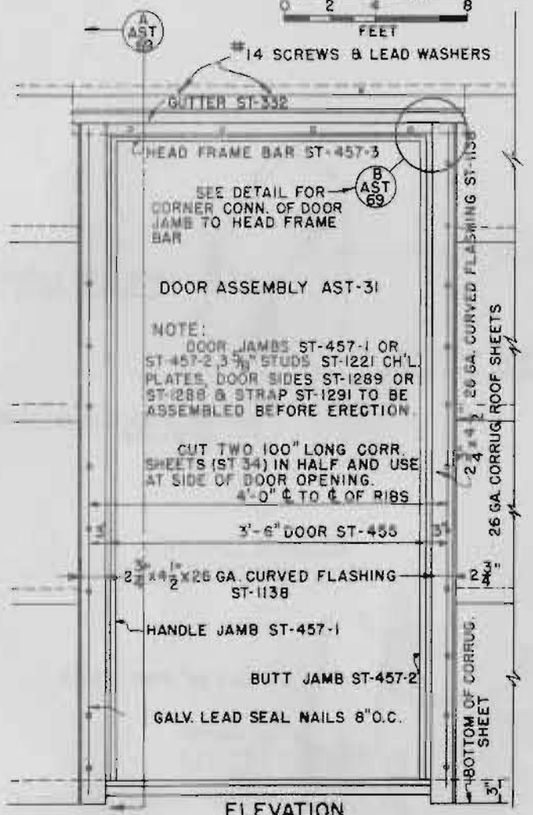
DEVELOPED VIEW OF FRAMING AROUND DOOR OPENING ON OPPOSITE SIDE OF BUILDING

0 2 4 8 FEET

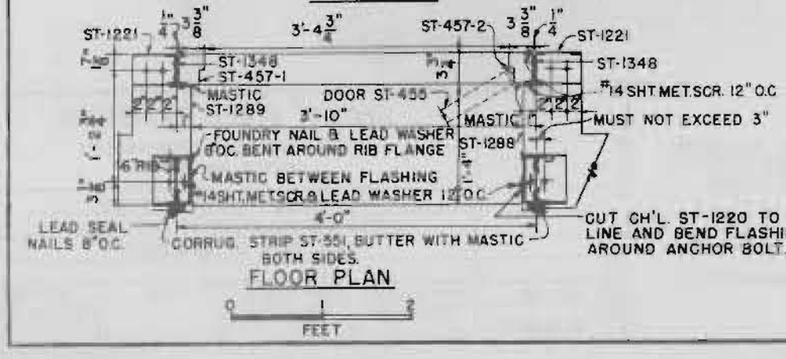


DETAIL (E AST 69)

0 1 2 3 4 5 10 INCHES

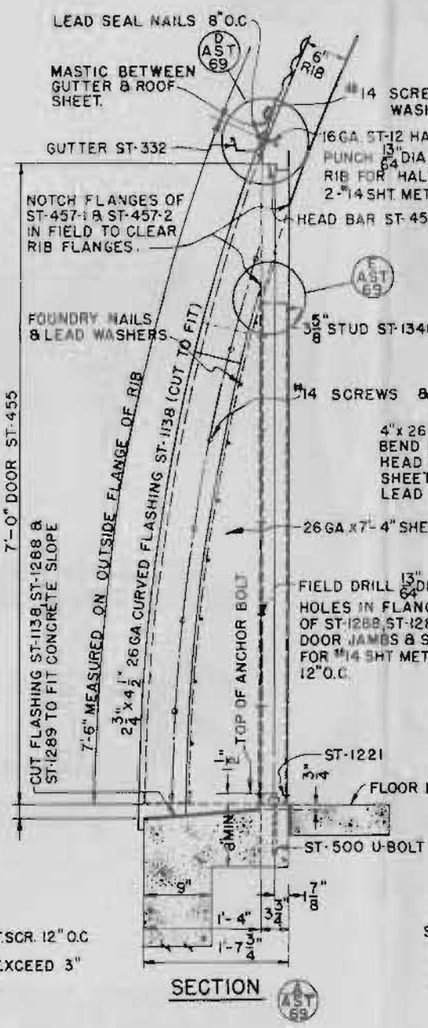


ELEVATION

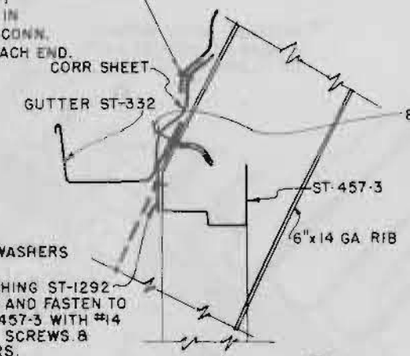


FLOOR PLAN

0 1 2 FEET

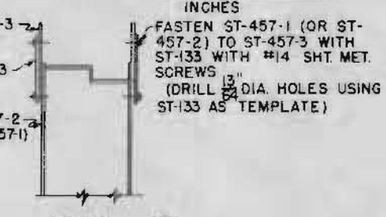


SECTION



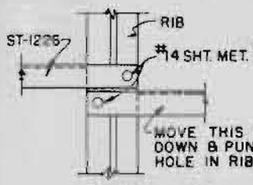
DETAIL (D AST 69)

0 1 2 3 4 5 10 INCHES



DETAIL (B AST 69)

0 1 2 3 4 5 10 INCHES



DETAIL (C AST 69)

0 1 2 3 4 5 10 INCHES

BILL OF MATERIAL

NO REQ.	PIECE MK	DESCRIPTION
1	AST-31	COMPLETE DOOR ASSY.
2	ST-500	U-ANCHOR BOLT 1/2" x 8" WITH 2 HEX NUTS
2	ST-1221	CHANNEL PLATE 3 5/8" x 16 GA x 0'-6" LG.
2	ST-1348	STUDS 3 5/8" x 16GA x 5'-7 7/8"
2	ST-1291	STRAPS 1" x 10 GA. x 0-6 1/2"
1	ST-1288	BENT SHEET 26GA x 7'-4"
1	ST-1289	BENT SHEET 26GA x 7'-4"
4	ST-1138	CURVED FLASHING 2 3/4" x 4 1/2" x 26 GA. x 36" LG.
1	ST-1292	GALV. SHEET 4" x 26GA x 3" x 11 1/2" LG.
1	ST-332	GALV. GUTTER 26GA. x 4'-4 5/8" LG.
1/2	GALLON	MASTIC
40	ST-525	GALV. LEAD SEAL NAILS.
40	ST-570	#14 SHEET METAL SCREWS, CAD. PLATED.
25	ST-527	5/8" LEAD WASHER WITH 0.25 HOLE
1	ST-1226	6 1/4" x 1" x 16GA. CHANNEL x 4'-3" LG.
1	ST-12	16GA. HALF STUD 3'-11 1/2" LG
16		FOUNDRY NAIL 4" LONG
4	ST-133	2" x 16 GA. x 0'-3" LONG
16	ST-526	5/8" LEAD WASHER WITH 0.16 HOLE

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

DOOR ASSEMBLY
3'-6" X 7'-0" SWING STEEL DOOR
IN BUILDINGS WITH 6" CURVED RIB

DATE 10-1-48 | DRAWN S.H.B.G. | CHECKED H.R.M. | JOB NO. | SHEET NUMBER AST-69
SCALE AS SHOWN | CUTSHEETS CHKD | ESTIMATE NUMBER

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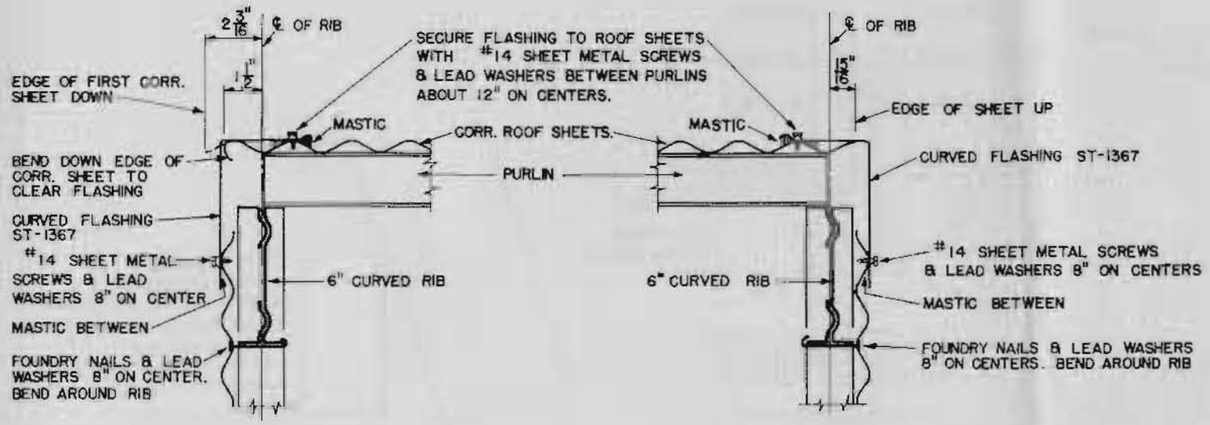
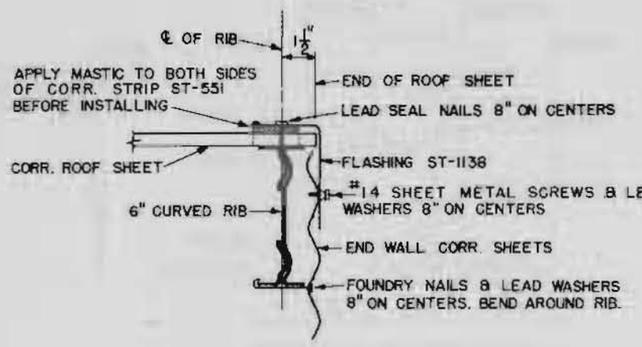
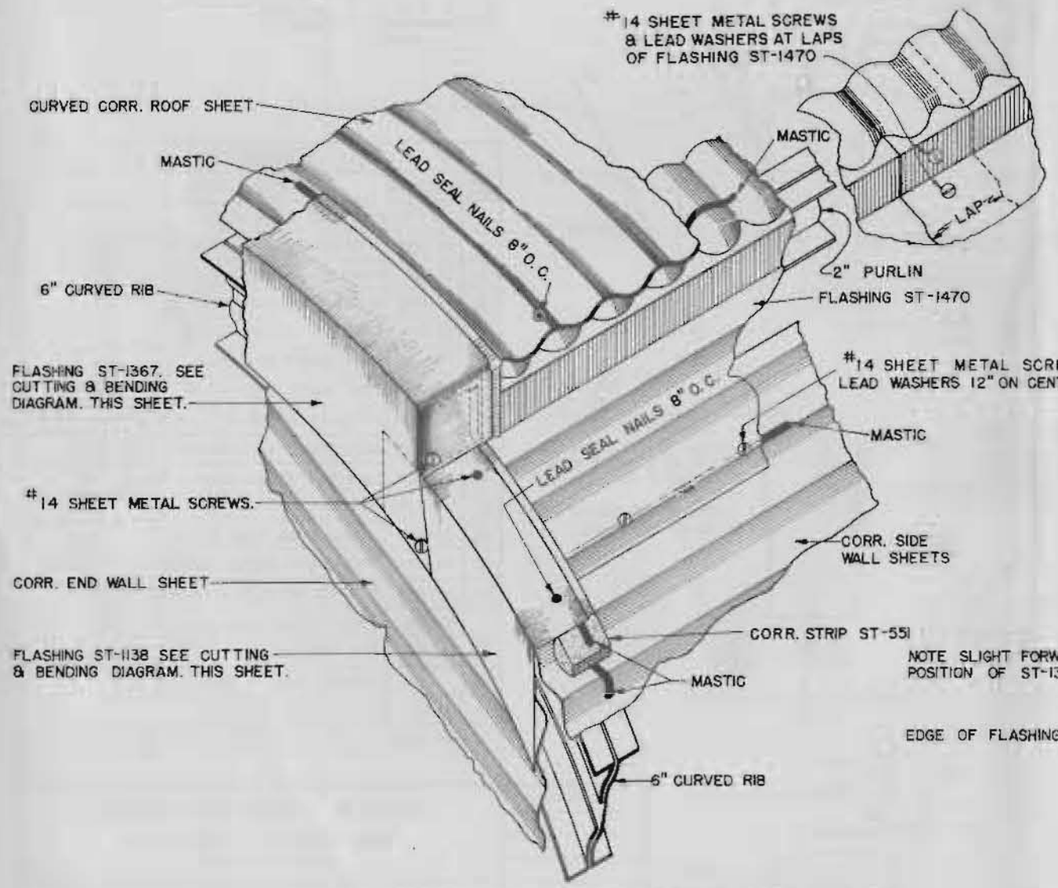


SECTION (B AST 76)

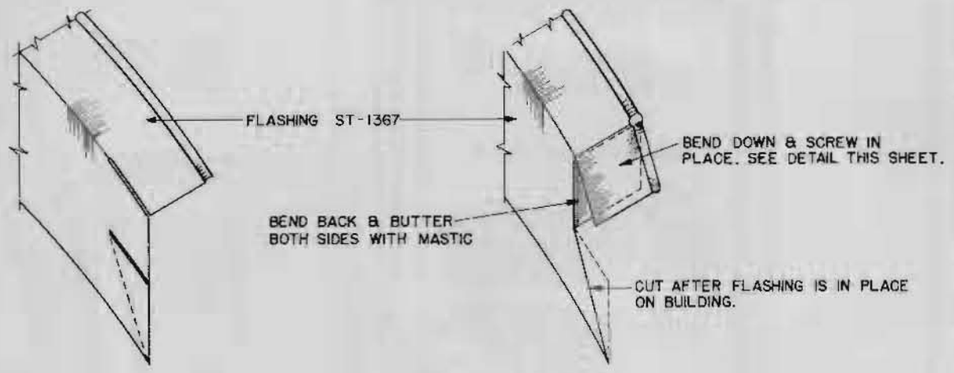
SECTION (C AST 76)



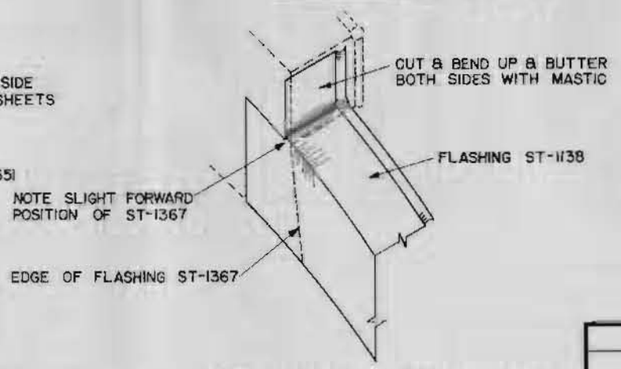
SECTION (D AST 76)



DETAIL OF FLASHING AT CURVED & HORIZONTAL ROOF SHEETS AT END WALL (A AST 76)

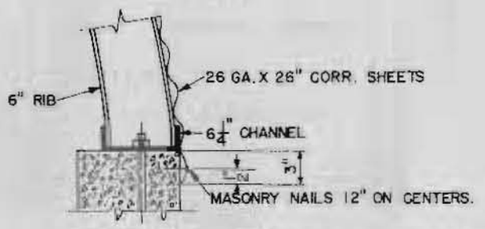


CUTTING DIAGRAM FOR FLASHING ST-1367



CUTTING & BENDING DIAGRAM FOR FLASHING ST-1138

BENDING DIAGRAM FOR FLASHING ST-1367

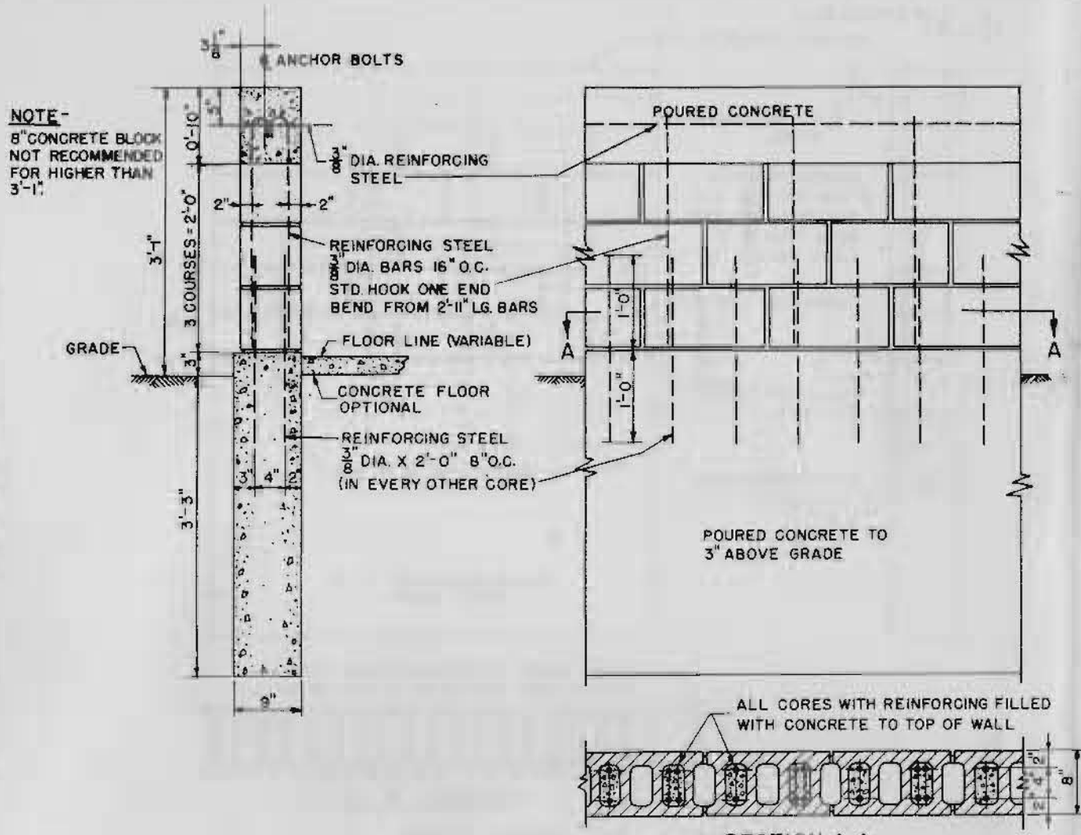


SECTION (E AST 76)

0 1 2 3 4 5 6 12
INCHES

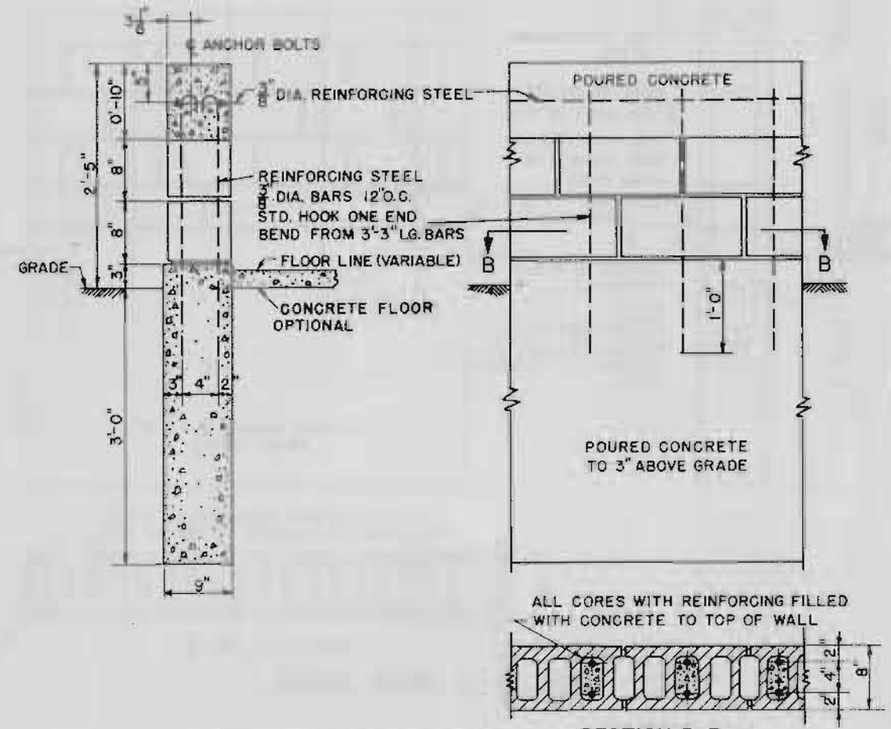
REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN
	FLASHING INSTALLATION FIELD INSTALLATION AT END WALL AND SIDE OF BUILDING
DATE 10-1-48	DRAWN H.E.B. / CHECKED H.R.M. / JOB NO. / SHEET NUMBER AST-76
SCALE AS SHOWN	CUSTOMER'S ORDER / ESTIMATE NUMBER

PRINTED IN U.S.A.



SECTION A-A

WALL 3'-1" ABOVE GRADE



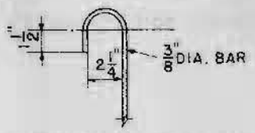
SECTION B-B

WALL 2'-5" ABOVE GRADE

SECTIONS THRU SIDE WALL FOR VARIOUS HEIGHTS ABOVE GRADE

END WALLS TO BE SIMILAR EXCEPT FOR LOCATION OF ANCHOR BOLTS.
SEE SECTION THRU END WALL AT SLIDING DOOR ON SHEET 3.

0 — 2
FEET
SCALE OF DETAILS



DETAIL OF STANDARD HOOK FOR REINFORCING STEEL

GENERAL NOTES-

1. CONCRETE SPECIFICATION - 2500 LBS. PER SQ. INCH CONCRETE
   1 PORTLAND CEMENT : 2½ SAND : 5 AGGREGATE
   TO 6 GALLONS OF WATER PER SACK OF CEMENT.
   (AGGREGATE TO BE 1" DIA. MAXIMUM)
2. ASSUMED SOIL BEARING VALUE - 4000 LBS. PER SQ. FT.
   FOUNDATION WALLS MUST BE POURED IN UNDISTURBED EARTH OR SUPPORTED LATERALLY BY WELL PUDDLED AND TAMPED BACKFILL.
3. IF THE DIFFERENCE BETWEEN GRADE AND FLOOR LEVEL IS MORE THAN 12", THE WALLS SHOULD BE INVESTIGATED FOR INCREASED HORIZONTAL THRUST DUE TO EARTH PRESSURE.
4. MORTAR SPECIFICATION - 1 CEMENT : 1½ LIME : 4 SAND.
5. LINE UP CORES OF BLOCKS AND POUR REINFORCED CORES IN A SINGLE CONTINUOUS OPERATION. REINFORCING STEEL MUST BE ENTIRELY SURROUNDED WITH CONCRETE.
6. UNREINFORCED CORES NEED NOT BE FILLED WITH CONCRETE.
7. FOR ANCHOR BOLT LAYOUT SEE FOUNDATION PLANS.

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN			
	FOUNDATION WALLS FOR Q36 OR Q40 BUILDINGS CONCRETE BLOCK WALLS			
DATE 10-1-48	DRAWN H.E.B.	CHECKED R.L.C.	JOB NO.	SHEET NUMBER AST-77 SH. 1 OF 3
SCALE AS NOTED	CUSTOMER'S ORDER	ESTIMATE NUMBER		

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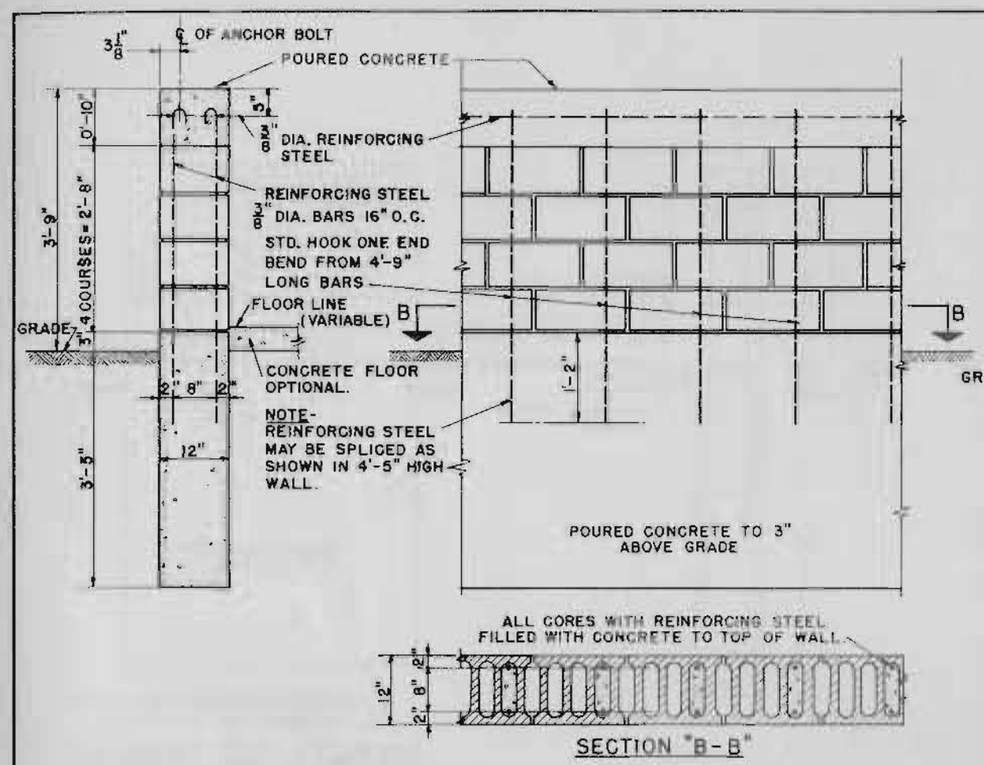
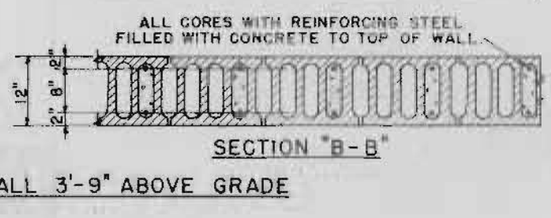
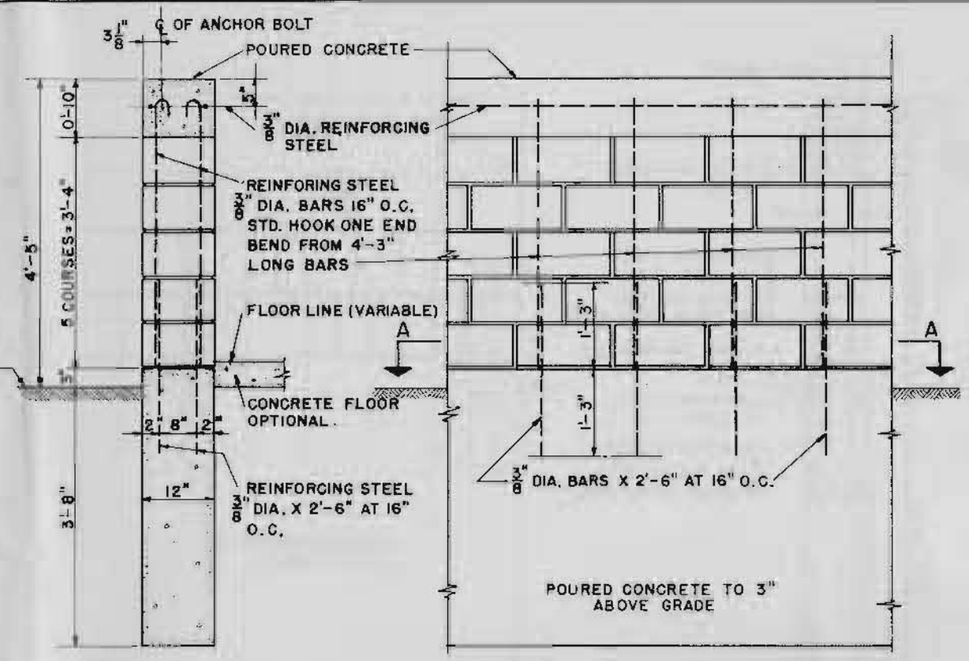
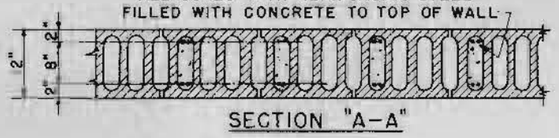




SECTION "B-B"

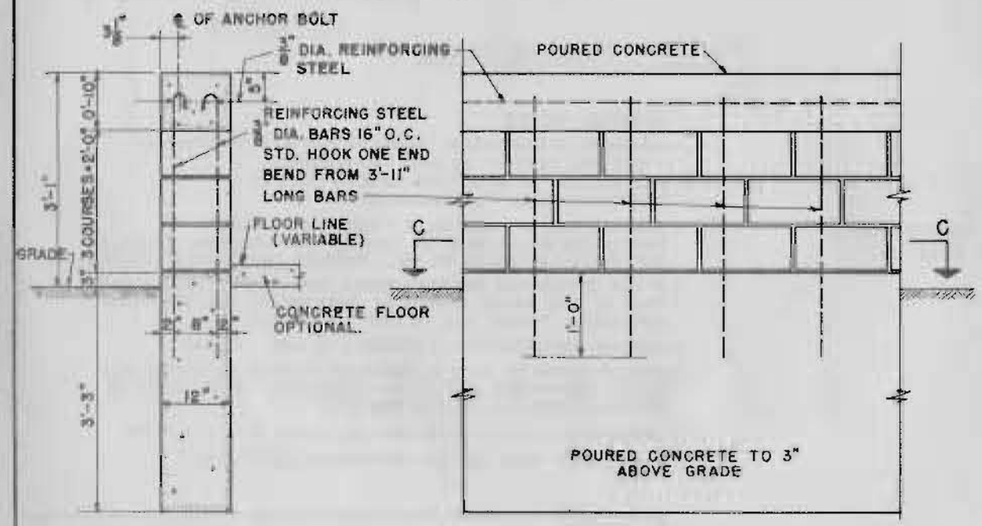
WALL 3'-9" ABOVE GRADE

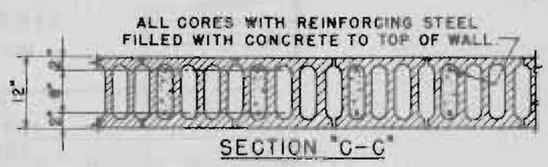




SECTION "A-A"

WALL 4'-5" ABOVE GRADE





SECTION "C-C"

WALL 3'-1" ABOVE GRADE

SECTIONS THRU SIDE WALL FOR VARIOUS HEIGHTS ABOVE GRADE

END WALLS TO BE SIMILAR EXCEPT FOR LOCATION OF ANCHOR BOLTS. SEE SECTION THRU END WALL AT SLIDING DOOR ON SHEET 3.

NOTES-
CONCRETE BLOCK WALLS ARE NOT RECOMMENDED FOR HIGHER THAN 4'-5" ABOVE GRADE.

SEE GENERAL NOTES ON AST-77 SHEET 1.

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN
	FOUNDATION WALLS FOR Q36 OR Q40 BUILDINGS CONCRETE BLOCK WALLS
DATE 10-1-48	DRAWN H. E. B. / CHECKED R.L.C. / JOB NO. / SHEET NUMBER AST-77 SH. 2 OF 3
SCALE AS SHOWN	CUSTOMER'S ORDER / ESTIMATE NUMBER

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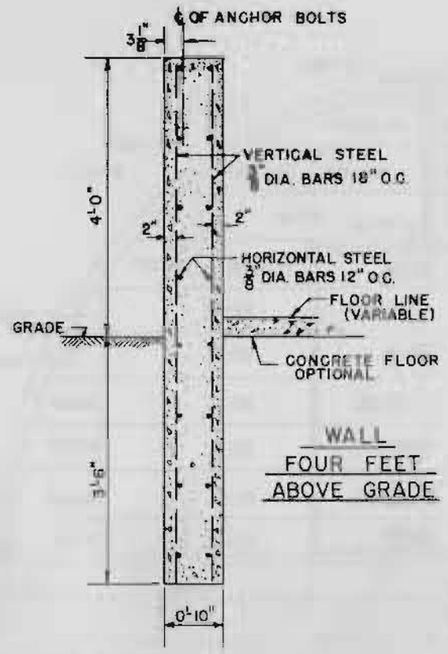
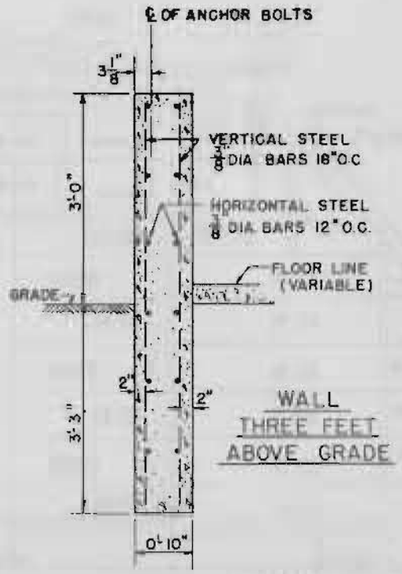
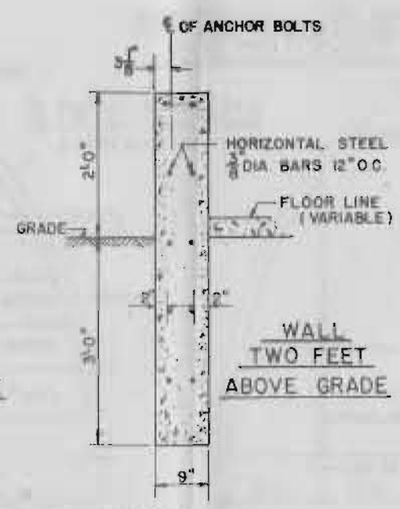


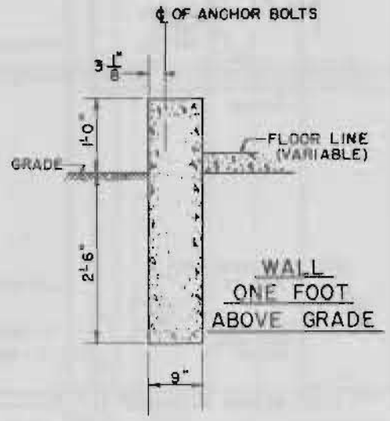
WALL
FOUR FEET
ABOVE GRADE



WALL
THREE FEET
ABOVE GRADE



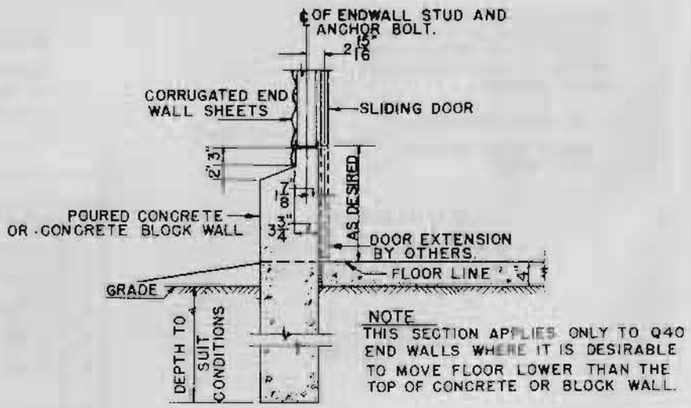
WALL
TWO FEET
ABOVE GRADE



WALL
ONE FOOT
ABOVE GRADE

SECTIONS THRU SIDE WALL FOR VARIOUS HEIGHTS ABOVE GRADE

END WALLS TO BE SIMILAR EXCEPT FOR LOCATION OF ANCHOR BOLTS.



SECTION THRU END WALL WITH 14'-0"X13'-6" HIGH SLIDING DOOR

0 1 2 3
FEET

SCALE OF DETAILS

GENERAL NOTES

1. CONCRETE SPECIFICATION-2500 LBS. PER SQ INCH CONCRETE 1 PORTLAND CEMENT: 2½ SAND: 5 COARSE AGGREGATE: TO 6 GALLONS OF WATER PER SACK OF CEMENT.
2. ASSUMED SOIL BEARING VALUE - 4000 LBS. PER SQ. FT. FOUNDATION WALLS MUST BE POURED IN UNDISTURBED EARTH OR SUPPORTED LATERALLY BY PUDDLED AND TAMPED BACKFILL.
3. WALLS SHOULD BE POURED IN A SINGLE CONTINUOUS OPERATION WITH NO HORIZONTAL JOINTS. VERTICAL EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED ABOUT EVERY 30 FT. TO 40 FT. LENGTHWISE OF WALLS, PREFERABLY NOT AT ARCH RIBS.
4. ALL STEEL SHOWN IS TEMPERATURE REINFORCING. (NOT FURNISHED BY STRAN STEEL.)
5. IF THE DIFFERENCE BETWEEN GRADE AND FLOOR LEVEL IS MORE THAN 12", THE WALLS SHOULD BE INVESTIGATED FOR INCREASED HORIZONTAL THRUST DUE TO EARTH PRESSURE.
6. FOR ANCHOR BOLT LAYOUT, SEE FOUNDATION PLAN.

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN			
	FOUNDATION WALLS FOR Q 36 OR Q 40 BUILDINGS POURED CONCRETE WALLS			
DATE 10-1-48	DRAWN H.E.B.	CHECKED R.L.C.	JOB NO.	SHEET NUMBER AST 77 SH 3 OF 3
SCALE AS NOTED	CUSTOMERS ORDER	ESTIMATE NUMBER		

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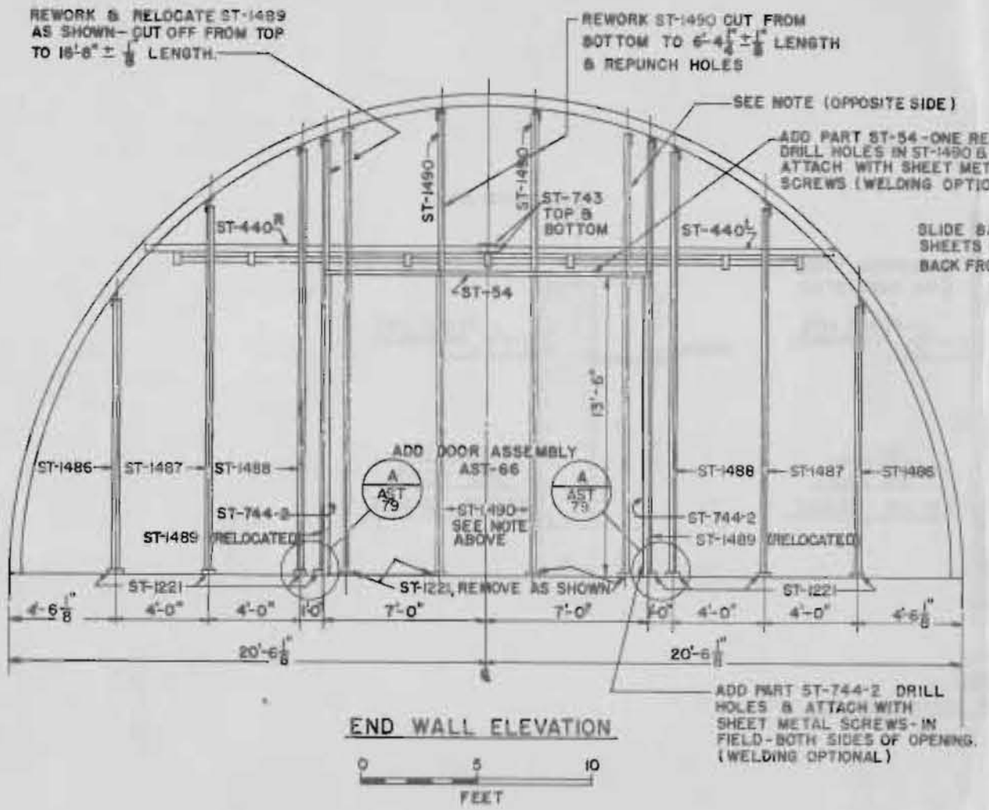
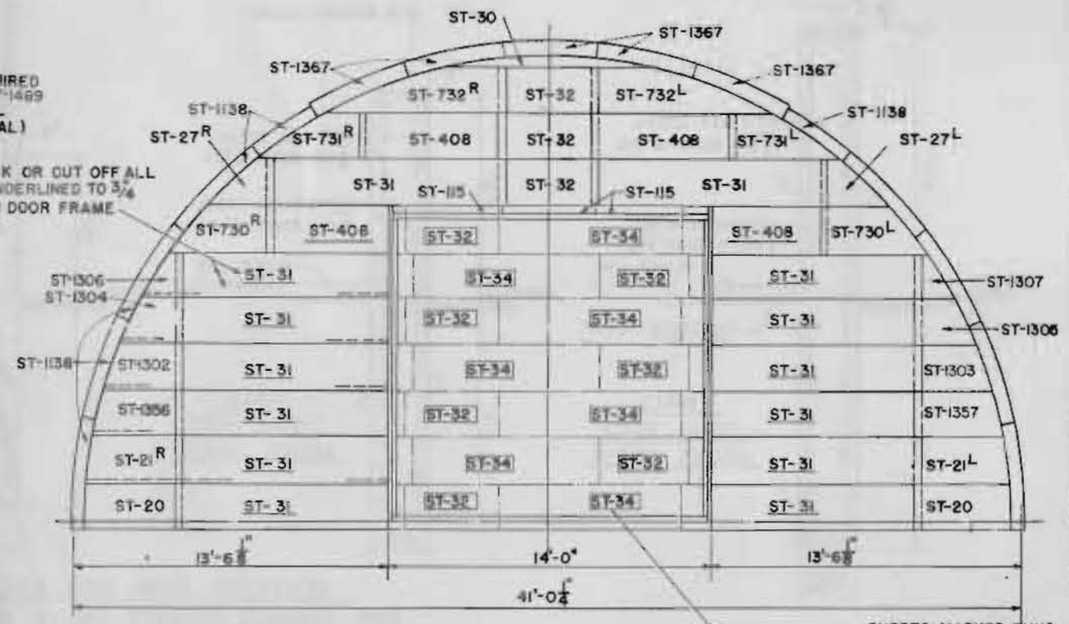


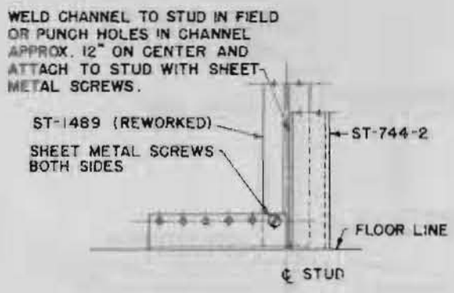
END WALL ELEVATION

0 5 10
FEET



ELEVATION OF CORRUGATED SHEETS

0 5 10
FEET



DETAIL A AST 79

NOTE:

RED (DOT-DASH) LINES SHOW MEMBERS TO BE REWORKED OR RELOCATED IN FIELD TO MAKE DOOR OPENING.

BILL OF MATERIAL		
NO. REQD.	PIECE MK.	DESCRIPTION
1	AST-66	14'-0" X 13'-6" SLIDING DOOR ASSEMBLY
1	ST-54	TOP CHANNEL (AT DOOR)
2	ST-744-2	SIDE CHANNEL (AT DOOR)
12	ST-551	CORRUGATED STRIP
3	ST-115	END WALL FLASHING

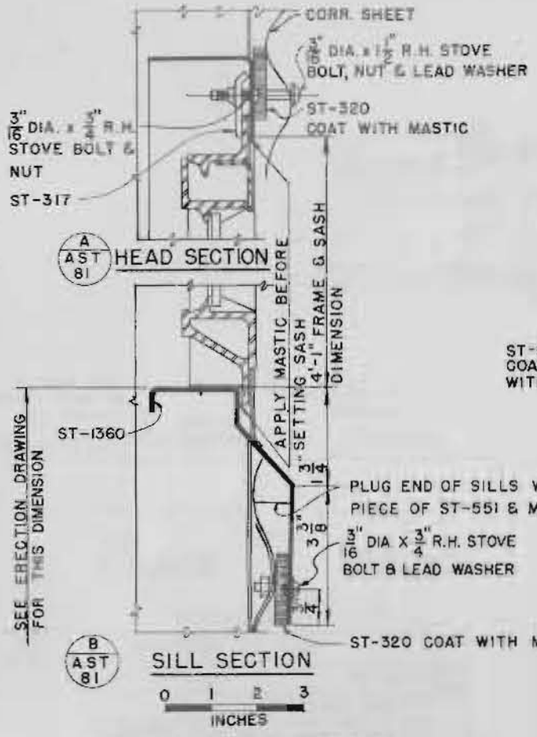
REVISIONS

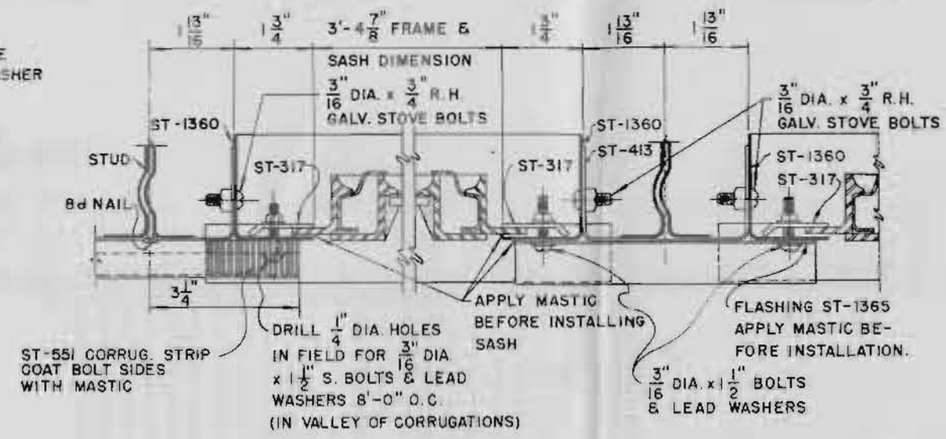
STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

DOOR INSTALLATION
14'-0" X 13'-6" SLIDING DOOR
FIELD INSTALLATION IN Q40 SOLID END WALL

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	R. T. L.	L. K.		AST-79
SCALE: AS SHOWN	CUSTOMER'S ORDER	ESTIMATE NUMBER		

PRINTED IN U.S.A.



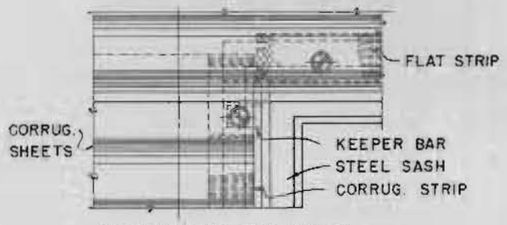


JAMB SECTION C AST 81

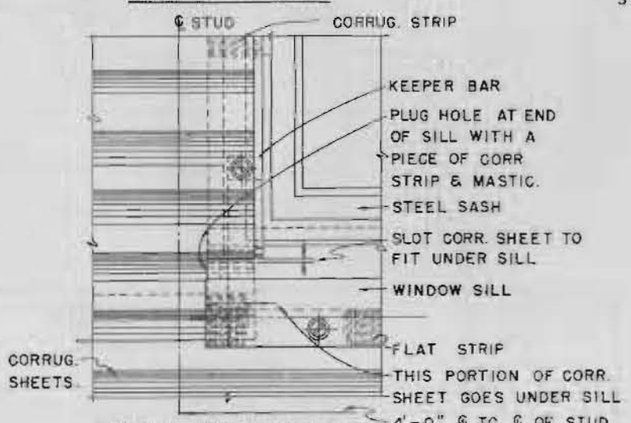
0 1 2 3
INCHES

MULLION SECTION D AST 81

0 1 2 3
INCHES

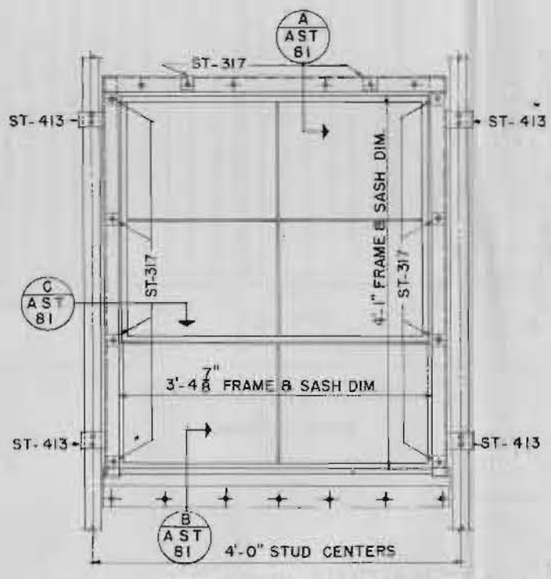


ELEVATION DETAIL OF CORNER AT HEAD



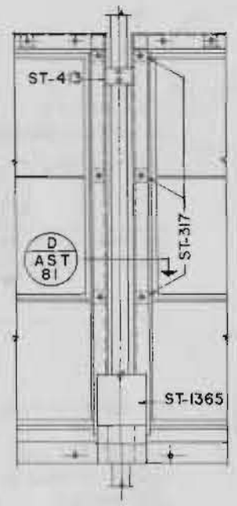
ELEVATION DETAIL OF CORNER AT SILL

0 1 2 3 4 8
INCHES



EXTERIOR ELEVATION OF SINGLE WINDOW

0 1 2
FEET



MULLION ELEVATION BETWEEN WINDOWS IN SEQUENCE

0 1 2
FEET

NOTES

WHEN WINDOWS ARE 4'-0" O.C. MULLION FLASHING ST-1365 IS REQUIRED TO BE ORDERED SEPARATELY IN QUANTITIES OF ONE LESS THAN NUMBER OF WINDOWS 4'-0" O.C.
REDUCE TOTAL QUANTITY OF CORR STRIP ST-551 BY 4 FOR EACH FLASHING ST-1365

INSTALLATION INSTRUCTIONS

1. BOLT THE CHANNEL CLIPS ST-413 TO THE ANGLE JAMBS OF THE STEEL WINDOW FRAME USING TWO CLIPS AT EACH JAMB. SEE ELEVATIONS FOR POSITION OF CLIPS.
2. PLACE WINDOW FRAME IN POSITION BETWEEN THE STUDS WITH TOP OF WINDOW SILL AT DIMENSION SHOWN ON ERECTION DRAW'G AND NAIL THE CLIPS INTO NAILING GROOVE OF THE STUDS.
3. APPLY MASTIC TO INSIDE OF WINDOW FRAME AND A PORTION OF SASH FOR A CONTINUOUS LAP WIDTH OF ONE HALF INCH SO AS TO SEAL THE JOINT BETWEEN SASH AND FRAME.
4. INSTALL STEEL SASH FROM INSIDE OF BUILDING BY BOLTING THE TWO KEEPER BARS ST-317 TO THE WINDOW FRAME TO SECURE THE SASH IN THE PROPER POSITION. (TWO KEEPER BARS ST-317 AT HEAD.)
5. INSERT THE FLAT STRIPS ST-320 OVER CORRUGATED METAL SHEETS UNDER SILL, CAULK WITH MASTIC AT EACH END OF SILL. INSERT SEVEN BOLTS THRU WINDOW SILL AND CORRUGATED SHEETS.
6. AT JAMBS (EXCEPT MULLIONS) DRILL 1/4" DIA. HOLES THRU CORR. SHEET, CORRUGATED STRIP AND FRAME FOR 3/16" DIA. X 1 1/2" STOVE BOLT & LEAD WASHER 8" O. C. (IN VALLEY OF CORR. SHEETS). ATTACH 4 KEEPER BARS ST-317 TO 4 OF THESE BOLTS OF EACH JAMB.
7. IF WINDOWS OCCUR IN ADJOINING 4'-0" SPACES BETWEEN STUDS THEN A METAL FLASHING SHEET ST-1365 IS TO BE BOLTED TO THE ANGLE MEMBERS OF WINDOW FRAME AS WELL AS AT SILL MEMBER. SEE MULLION DETAIL.
8. APPLY CORRUGATED METAL SHEETS OVER FLAT STRIP ST-320 AT HEAD OF WINDOW & BOLT TO HEAD MEMBERS OF WINDOW FRAME. APPLY MASTIC TO FACE OF FLAT STRIP TOUCHING FRAMES BEFORE INSTALLING.

BILL OF MATERIAL

NO. REQ.	PIECE MK.	DESCRIPTION
1	ST-547 OR ST-549	STEEL SASH, FENESTRA OR EQUAL COMPLETE WITH HARDWARE & GLAZING CLIPS. GLASS BY OTHERS.
1	ST-1360	WELDED FRAME, NO. 14 GA.
4	ST-413	CHANNEL CLIPS, NO. 14 GA.
10	ST-317	CRIMP KEEPER BAR, NO. 12 GA.
4	ST-551	CORRUG. STRIP,
4	ST-320	PLAIN STRIP 2'-3" LG.
16		3/16" DIA. x 3/4" R.H. GALV. STOVE BOLTS & NUTS
14		3/16" DIA. x 1 1/2" R.H. GALV. STOVE BOLTS & NUTS
10		8d COMMON NAILS
26	ST-528	5/8" DIA. LEAD WASHER WITH .18 DIA. HOLE
1/4	GALLON	MASTIC

REVISIONS	

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

WINDOW ASSEMBLY
3'-5" X 4'-1" STEEL WINDOW
IN STRAIGHT WALLS.

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	R.T.L.	L.K.		AST-81
SCALE AS SHOWN	CUSTOMER'S ORDER	ESTIMATE NUMBER		

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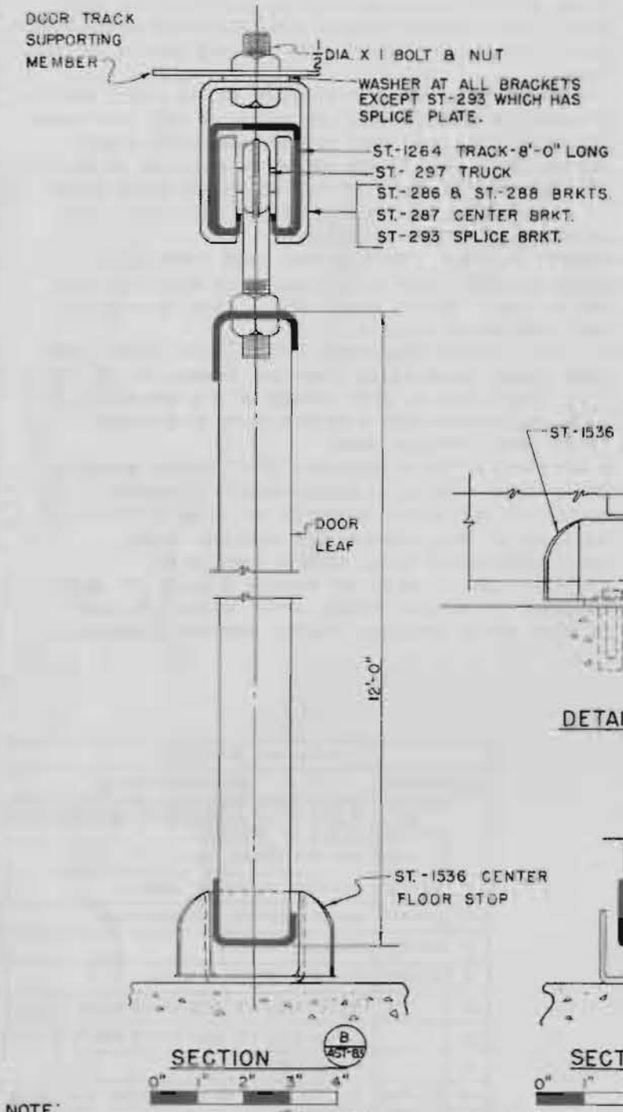
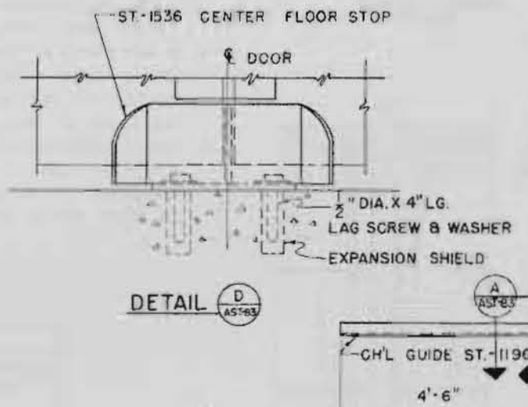
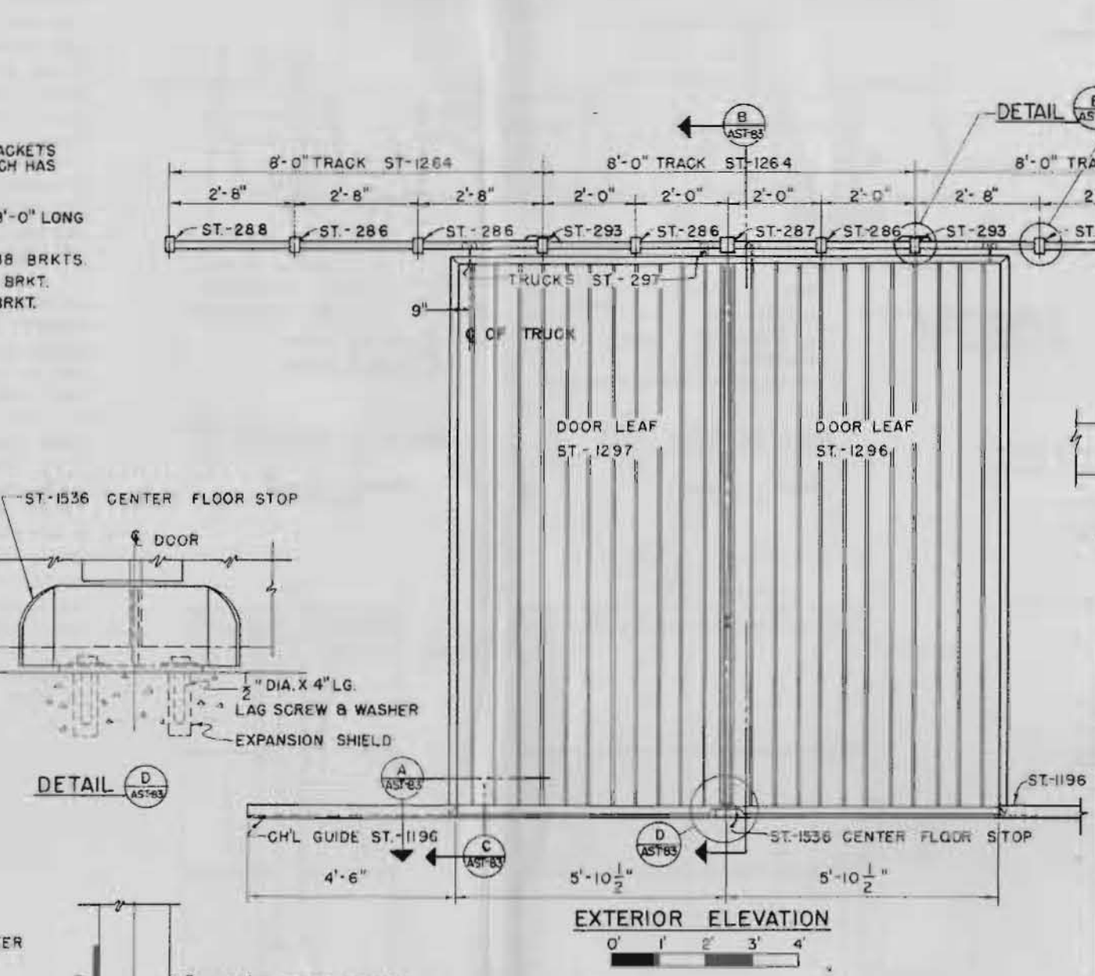
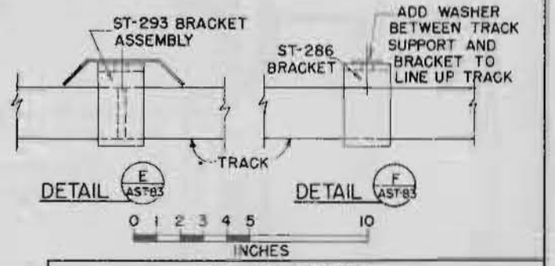
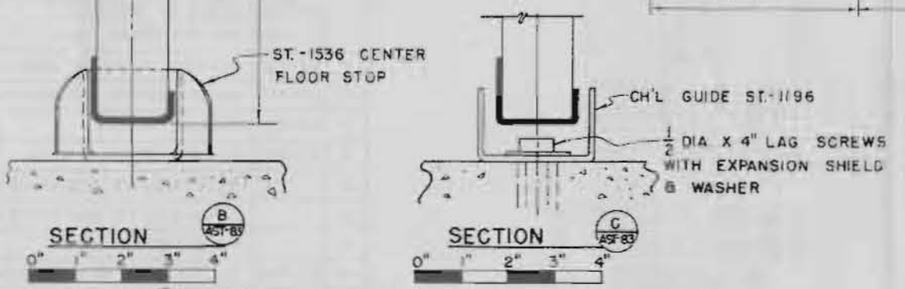
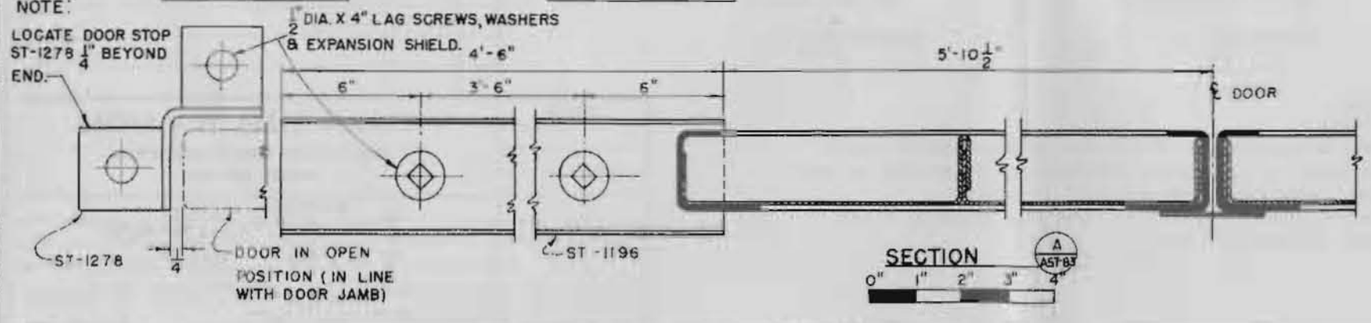












BILL OF MATERIAL

NO. REQ.	PIECE MK.	DESCRIPTION
1	ST.-1296	DOOR LEAF
1	ST.-1297	DOOR LEAF WITH ASTRAGAL
6	ST.-286	BRACKET
1	ST.-287	CENTER BRACKET
2	ST.-288	END BRACKET
1	ST.-1536	CENTER FLOOR STOP
4	ST.-297	TRUCKS
3	ST.-1264	16 GA. X 8'-0" TRACK
2	ST.-1196	2½" CH'L X 16 GA. X 4'-6"
2	ST.-1278	2 X 2 X 2 X 3/16 DOOR STOP
2	ST.-293	TRACK SPLICE BRACKET ASSEMBLY
10		EXPANSION SHIELD FOR ½" DIA. LAG SCREW 4" LONG
10		½" DIA. X 4" LAG SCREW
12		½" DIA. X 1 LG. SQ. HD. MACH. BOLTS & NUTS
34		9/16" I.D. X 1⅜" O.D. STEEL WASHER

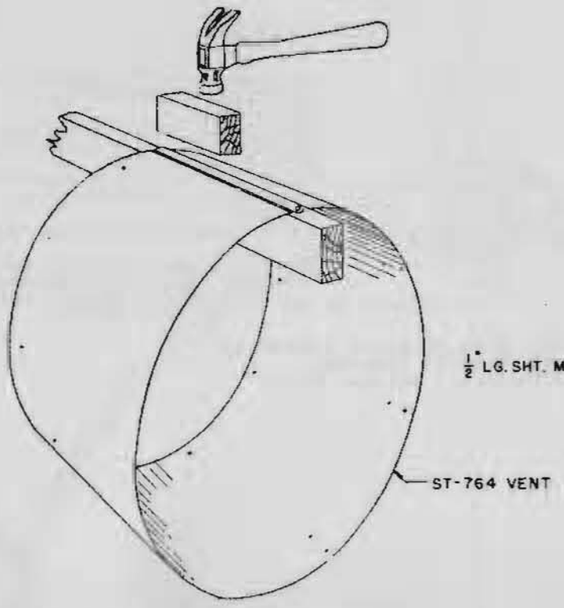
REVISIONS	
③	REVISED FOR 1948 BLDGS 12-15-48
②	REDRAWN 6-1-48

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

DOOR ASSEMBLY
12' X 12' SLIDING STEEL DOOR

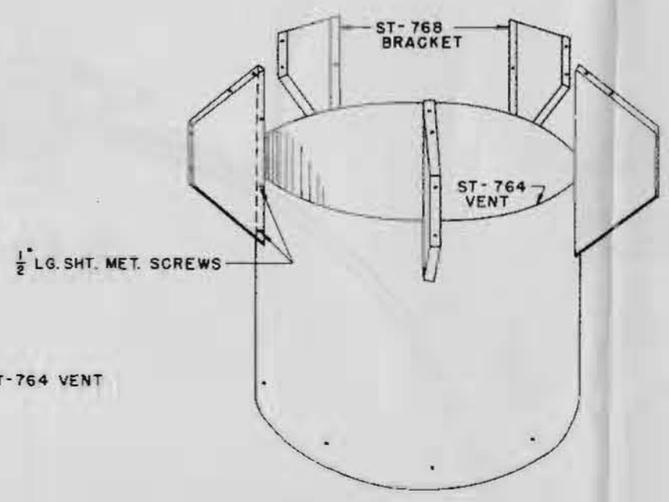
DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
2-2-48	S.H.B.G.	L.K		AST-83
SCALE AS SHOWN	CUSTOMERS ORDER	ESTIMATE NUMBER		

PRINTED IN U.S.A.



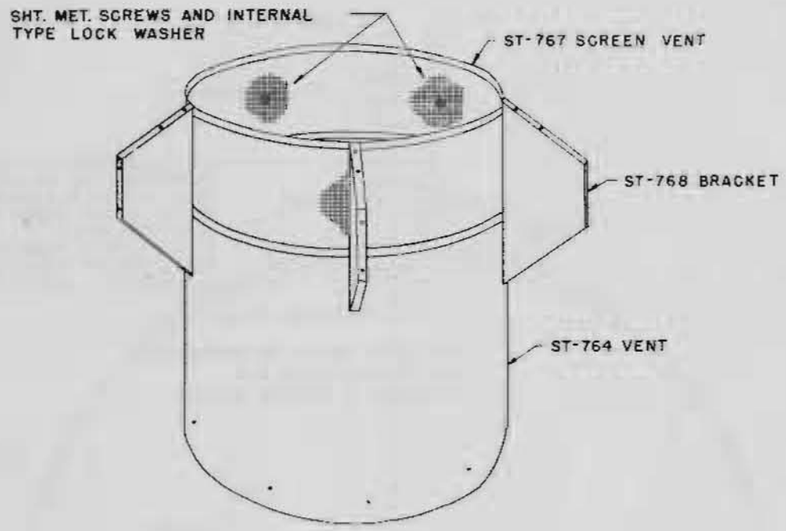
STEP NO. 1

FIT ENDS OF VENT ST-764 TOGETHER AND CLOSE SEAM WITH WOOD BLOCK AND HAMMER



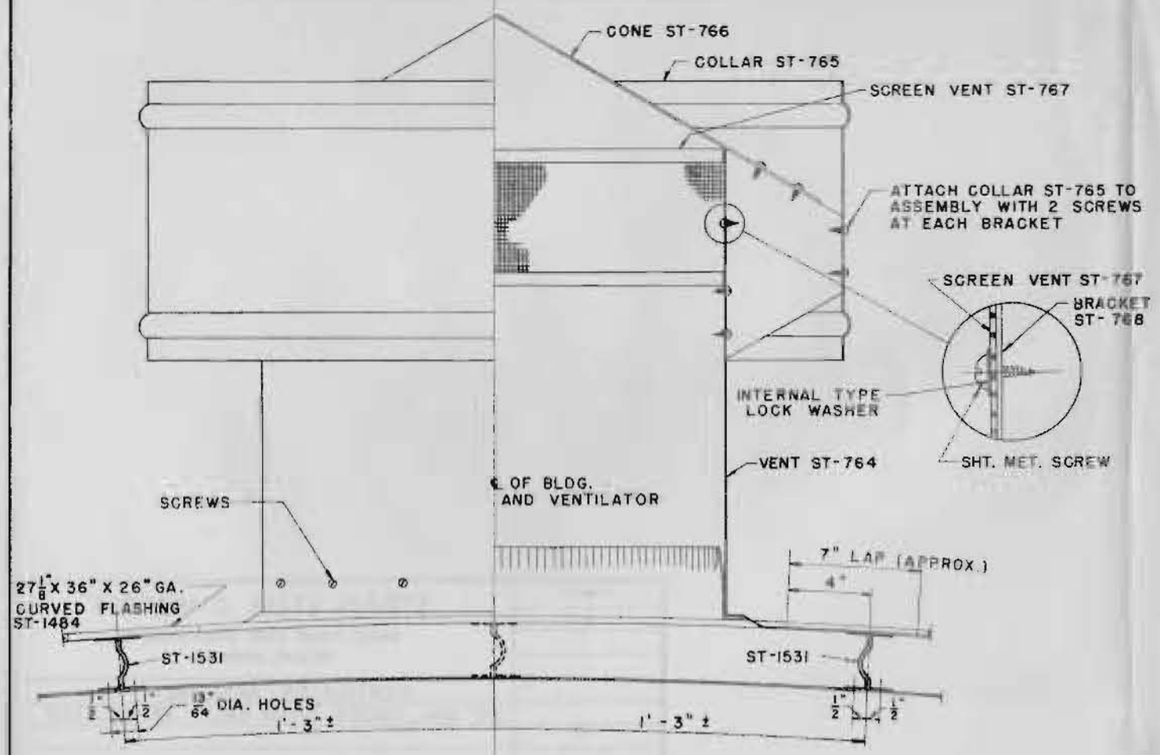
STEP NO. 2

ATTACH FIVE BRACKETS ST-768 TO CLOSED VENT RING ST-764 WITH 2 SHEET METAL SCREWS IN EACH BRACKET AS SHOWN

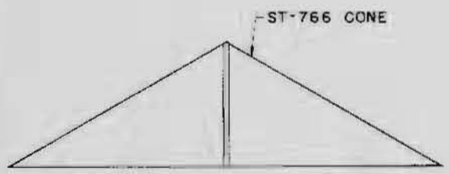


STEP NO. 3

ATTACH SCREEN VENT ST-767 TO ASSEMBLY, AS SHOWN IN ENLARGED SECTION BELOW, BY PUSHING SHT. METAL SCREEN WITH LOCK WASHER THRU SCREEN



VENTILATOR ASSEMBLY COMPLETE



STEP NO. 4

CLOSE SEAM OF CONE ST-766 WITH WOOD BLOCK AND HAMMER, SIMILAR TO STEP NO. 1, AND ATTACH TO ASSEMBLY.

BILL OF MATERIAL

NO. REQ.	PIECE MK.	DESCRIPTION
2	ST-1531	2" X 18 GA. SHORT PURLIN 3'-11 7/8" LG.
1	ST-764	VENT PIPE - 26 GA. BR. GALV.
1	ST-765	COLLAR - 26 GA. BR. GALV.
1	ST-766	CONE - 26 GA. BR. GALV.
1	ST-767	SCREEN VENT
5	ST-768	BRACKET - 24 GA. BR. GALV.
1	ST-1484	27⅛" X 26 GA. ROOF SHEET WITH COLLAR
10	ST-525	LEAD SEAL NAILS
20	ST-570	#14 SHEET METAL SCREWS
10	ST-527	⅝" O.D. X ¼" I.D. LEAD WASHER
1 QT.		MASTIC
50		#7 X ½" LG. SHEET METAL SCREWS TYPE "A"
5		INTERNAL TYPE LOCK WASHER SHAKE-PROOF #1208 OR EQUAL
SUBSTITUTE FOR ABOVE LAST TWO ITEMS		
50		#10 X ½" LG. SHEET METAL SCREWS
5		INTERNAL TYPE LOCK WASHER SHAKE-PROOF #1210 OR EQUAL

REVISIONS

STRAN STEEL DIVISION
GREAT LAKES STEEL CORPORATION
DETROIT, MICHIGAN

VENTILATOR ASSEMBLY
20" DIA. KNOCK DOWN GALV. VENTILATOR

DATE	DRAWN	CHECKED	JOB NO.	SHEET NUMBER
10-1-48	D.W.	H.R.M		AST-116 SHEET 1 OF 2
SCALE NONE	CUSTOMER'S ORDER	ESTIMATE NUMBER		

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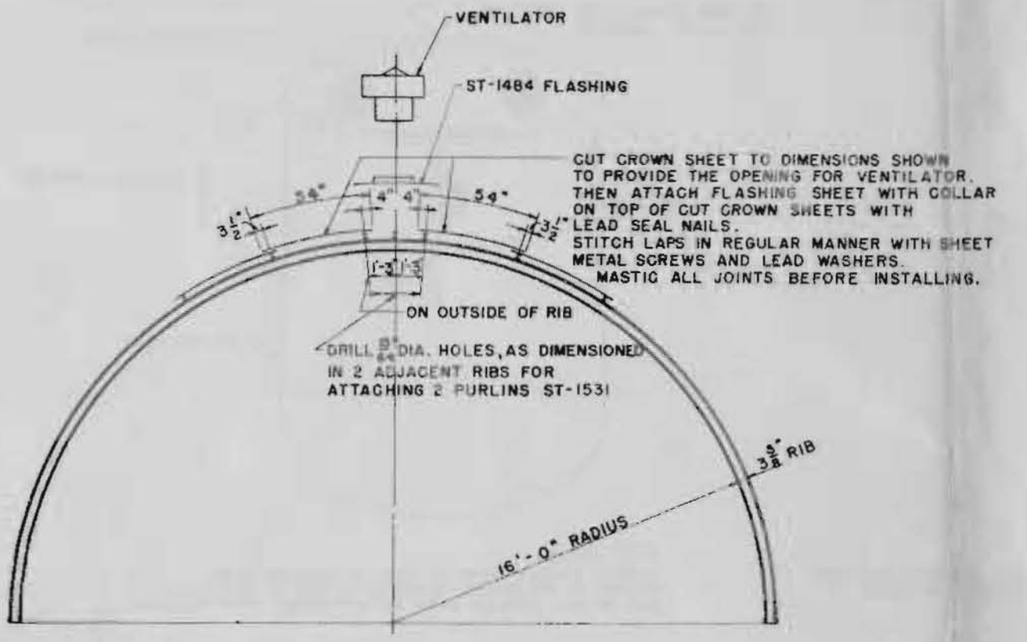

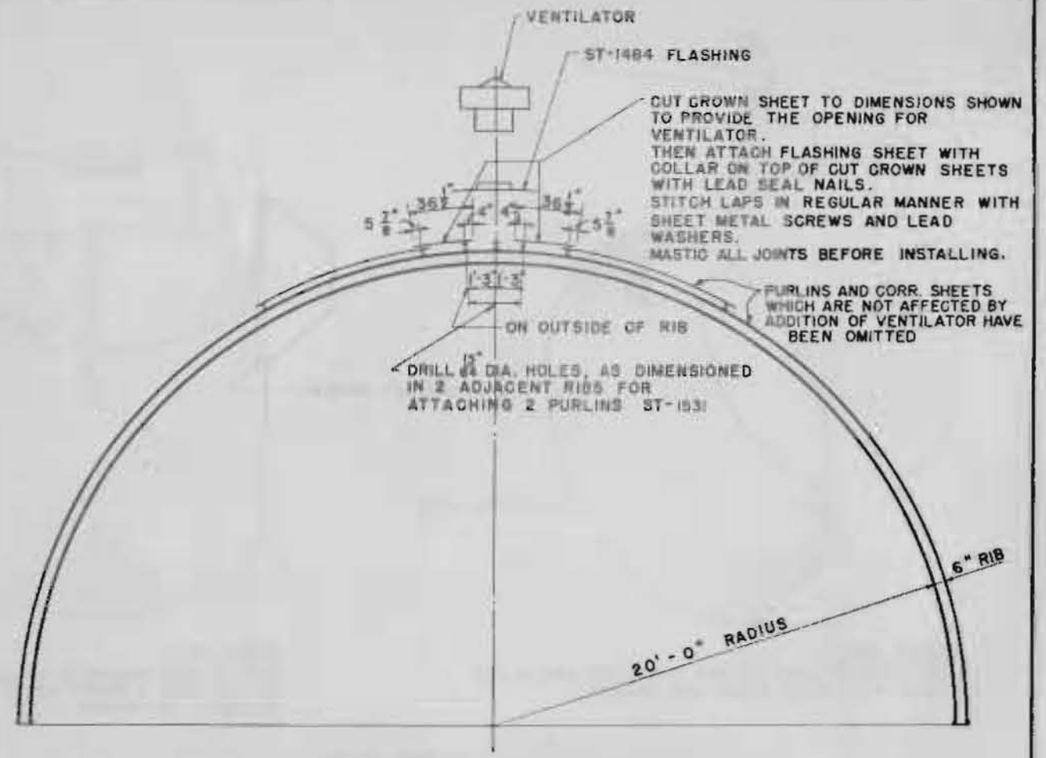

REVISIONS	STRAN STEEL DIVISION GREAT LAKES STEEL CORPORATION DETROIT, MICHIGAN			
	VENTILATOR ASSEMBLY 20" DIA. KNOCK DOWN GALV. VENTILATOR			
DATE 10-1-48	DRAWN D.W	CHECKED H.R.M	JOB NO.	DRAWING NUMBER AST-116
SCALE 1/4"=1'-0"	CUSTOMERS ORDER	REMARK NUMBER		SHEET 2 OF 2

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