REGIONAL DISTRICT OF NANAIMO

REQUEST FOR PROPOSALS No. 24-045

Church Road Transfer Station Buildings Reworks

Addendum 1
23 Pages
Issued: October 4, 2024

Closing Date & Time: on or before 3:00 PM Pacific Time on October 16, 2024

This addendum shall be read in conjunction with and considered as an integral part of the Request for Proposal. Revisions supersede the information contained in the original Proposal or previously issued Addendum. No consideration will be allowed for any extras due to any Proponent not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

Tender Addendum

DELETE: Closing Date & Time: on or before 3:00 PM Pacific Time on October 9, 2024

ADD: Closing Date & Time: on or before 3:00 PM Pacific Time on **October 16, 2024**

ADD: Garco Building Systems Erection Drawings (22 pages).

Reminder:

Each Tender Form received from a Tenderer must be accompanied by a **verifiable digital E-Bid Bond** in the amount equal to TEN PERCENT (10%) of the TOTAL AMOUNT OF TENDER and a **verifiable digital Consent of Surety** as defined by the Surety Association of Canada. https://suretycanada.com/SAC/Surety-Bonds/E-Bonding.aspx

End of Addendum 1

Garco® Building Systems

ERECTION DRAWINGS

BUILDING DESCRIPTION

BASIC SIZE:

FRAME TYPE: MBC-1 ✓
WIDTH: 111'-6½" (33998MM) ✓
LENGTH: 98'-6" (30023MM) ✓
EAVE HEIGHT: 20'-0" (6096MM) ✓
SLOPE: 1:12 ✓
BAY SIZE: 22'-7⅞" (6906MM) & 30'-6⅜" (9305MM)
ENDWALL GRIDLINE: "A" TYPE: P&B POST SPACING: 27'-9¼" (8465) & 28'-0" (8534MM)
ENDWALL GRIDLINE: "F" TYPE: P&B POST-SPACING: 27'-9¼" (8465MM) & 28'-0" (8534MM)

PURLINS: 10Z12 & 10Z14 (254MM)
SIDEWALL GIRTS: 10Z12 & 10Z14 (254MM)
ENDWALL GIRTS: 10Z12 (254MM)

ADDITIONAL FEATURES

PANEL TYPE

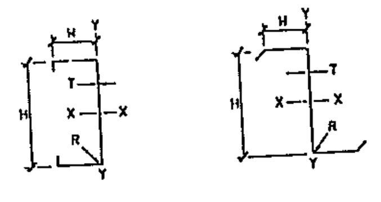
		GA.	COLOR	FASTENER TYPE
ROOF PANEL	"RW"	26		#12×1¼" (32MM)
WALL PANEL	"RW"	26		#12×1¼" (32MM)
___ PANEL				
___ PANEL				
___ PANEL				

SECONDARY FRAMING MEMBERS

ENGINEERING PROPERTIES FOR ALL SECTIONS: Fy = 50 K/in.²

ZEE SECTION PROPERTIES

SECTION SIZE	T (in.)	W (in.)	R (in.)	AREA (in.²)	WT. (lb/ft.)	I_x EFF. (in.⁴)	S_x EFF. (in.³)	I_y (in.⁴)	H (in.)
6Z16	0.060	2.5	0.219	0.71	2.42	3.607	1.126	0.95	6
8Z16	0.060	3.0	0.219	0.89	3.02	7.349	1.601	1.55	8
8Z14	0.075	3.0	0.219	1.12	3.81	9.969	2.343	2.03	8
8Z12	0.105	3.0	0.219	1.59	5.40	14.714	3.607	4.54	8
10Z14	0.075	3.5	0.219	1.35	4.58	17.46	3.225	3.07	10
10Z12	0.105	3.5	0.219	1.92	6.54	26.513	5.071	4.54	10
12Z12	0.105	3.5	0.219	2.09	7.09	40.303	8.548	4.54	12
METRIC									
6Z16	1.5MM	63.5MM	5.6MM	18.0MM	61.5MM	91.2MM	28.6MM	24.0MM	152MM
8Z16	1.5MM	76.2MM	5.6MM	22.6MM	76.7MM	186.7MM	42.7MM	39.4MM	203MM
8Z14	1.9MM	76.2MM	5.6MM	28.4MM	96.8MM	253.2MM	59.5MM	51.6MM	203MM
8Z12	2.7MM	76.2MM	5.6MM	40.4MM	137.2MM	373.7MM	91.6MM	115.3MM	203MM
10Z14	1.9MM	88.9MM	5.6MM	34.3MM	116.3MM	443.5MM	81.9MM	78.0MM	254MM
10Z12	2.7MM	88.9MM	5.6MM	48.8MM	166.1MM	673.4MM	128.8MM	115.3MM	254MM
12Z12	2.7MM	88.9MM	5.6MM	33.1MM	180.1MM	1038.9MM	166.3MM	115.3MM	305MM



DESIGN PARAMETERS

THIS STRUCTURE IS DESIGNED BASED UPON CRITERIA PUBLISHED BY:

1. A.I.S.C. SPECIFICATIONS FOR STRUCTURAL STEEL
2. A.I.S.I. SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS
3. MBMA LOW RISE BUILDING SYSTEMS MANUAL
4. UBC (UNIFORM BUILDING CODE)
5. NBCC (NATIONAL BUILDING CODE OF CANADA)

LOADING

LIVE LOAD: 2.6 KPA ON ROOF PANELS AND PURLINS
LIVE LOAD: 2.6 KPA ON FRAMES
WIND LOAD: 0.58 KPA
ROOF DEAD LOAD: 2.5 PSF + FRAME SELF WEIGHT
COLLATERAL LOADS: –

CRANE INFORMATION

CRANE CAPACITY: NA
CRANE TYPE:
MAXIMUM WHEEL LOAD (WITHOUT IMPACT):
WHEEL BASE:

STRUCTURAL DESIGN

"ALLOWABLE STRESS" AS PER A.I.S.C. 8th EDITION AND A.I.S.I. - 1986, maximum = 0.60 (Fy).

SEISMIC

V = 0.20
ZONE: 6 RIGID FRAMES
"Rw" - FACTOR: 8 BRACING

BASE SHEAR FORMULA (12 - 1) PER UBC 1988 EDITION

GENERAL NOTES

1. MATERIALS

	ASTM DESIGNATION	
HOT ROLLED MILL SHAPES	A36 MIN.	Fy = 36 KSI MIN.
STRUCTURAL STEEL PLATE	A-572, A-570, A-36 MOD.	Fy = 50 KSI Gr 50 MIN.
COLD FORMED, LIGHT GAGE SHAPES	A-446 OR EQUAL	Fy = 50 KSI Gr D
BRACE RODS	A36	Fy = 36 KSI
ROOF AND WALL PANEL	A-446	Fy = 50 KSI Gr. D MIN.
BOLTS ⅝" ϕ (16MM) & LARGER	A-325	
BOLTS ½" ϕ (13MM ϕ) ONLY	SAE GR 5	

2. A325 BOLT TIGHTENING REQUIREMENTS

a. GARCO RECOMMENDS THAT ALL HIGH STRENGTH BOLTS IN PRIMARY CONNECTIONS BE TIGHTENED TO THE SNUG TIGHT CONDITION EXCEPT AS RECOMMENDED BELOW..

b. THE SNUG TIGHT CONDITION IS DEFINED AS APPROXIMATELY 35% OF THE ULTIMATE TENSILE BOLT STRENGTH, OR 50% OF THE FULLY PRE-TENSIONED VALUE AS DEFINED BELOW. THE SNUG CONDITION IS ALSO DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

c. THE SNUG TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO SNUG CONTACT. BOLTS IN CONNECTION IDENTIFIED TO BE TIGHTENED ONLY TO THE SNUG TIGHT CONDITION NEED NOT BE INSPECTED FOR BOLT TENSION OTHER THAN TO ENSURE THAT THE PLIES OF THE CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO SNUG CONTACT.

d. THE EXCEPTION IS FOR BUILDINGS OVER 100 FEET IN HEIGHT, ALL STRUCTURES CARRYING CRANES OF OVER 5-TON CAPACITY AND CONNECTIONS FOR SUPPORTS OF RUNNING MACHINERY AS DEFINED BY "SUPPLEMENT NO. #1 TO THE AISC ADOPTED 3/11/89.

e. IN THESE CONDITIONS THE MANUFACTURER RECOMMENDS THE "TURN-OF-NUT" METHOD WHEN TIGHTENING A-325 BOLTS (PER PAGE 5-215 TABLE 4 EIGTH ED. OF THE AISC MANUAL OF STEEL CONSTRUCTION).

f. THESE BOLTED CONNECTIONS ARE BEARING-TYPE CONNECTIONS WITH THREADS NOT REQUIRED BY DESIGN TO BE EXCLUDED FROM THE SHEAR PLANE. INSPECTION PRIOR TO, OR DURING INSTALLATION WILL NOT BE REQUIRED (SECTION 306. (A) 5.2 OF THE U.B.C.).

3. MANUFACTURING PLANT CERTIFICATIONS

GARCO BUILDING SYSTEMS IS AN APPROVED STRUCTURAL STEEL MANUFACTURING PLANT CERTIFIED BY THE FOLLOWING:

a. CITY OF SEATTLE DCLU
b. CANADIAN WELDING BUREAU
c. PITTSBURGH TESTING LABORATORY
d. ICBO #FA-316
e. WABO (WASHINGTON ASSOCIATION OF BUILDING OFFICALS)

REVISIONS

ENGINEERING PROPERTIES 4-19-90
SEISMIC FACTOR 5-16-90

GENERAL PRODUCT SPECIFICATIONS

1. PRIMARY STRUCTURAL FRAMING

a. ALL PRIMARY STRUCTURAL FRAMING MEMBERS ARE TO BE AUTOMATIC SUBMERGED ARC WELDED BUILT-UP WIDE FLANGE SECTIONS. MISCELLANEOUS WELDS ARE TO BE MADE BY GAS METAL-ARC PROCESS WITH ARGON SHIELDING. ALL WELDING IS TO BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY AND CANADIAN WELDING BUREAU REQUIREMENTS BY WELDERS CERTIFIED IN ACCORDANCE WITH C.W.B., C.S.A. STANDARD W47.1 (FUSION WELDING OF STEEL STRUCTURES). MINIMUM WEB THICKNESS IS TO BE ⅛" (3MM) & MIN. FLANGE THICKNESS TO BE 3/16" (5MM).

b. ALL PRIMARY CONNECTIONS ARE BOLTED WITH 5/8" (16MM) MIN. DIA. BLACK HEAT-TREATED ASTM A-325N BOLTS.

c. WIND BRACING TO BE BY A POSITIVE "X" SYSTEM UTILIZING TENSION MEMBERS ONLY OF 7 STRAND EHS CABLE WITH GUARANTEED PROOF LOAD, CONFORMING TO ASTM A-475 OR BY RODS OF MINIMUM ASTM A-36 GRADE STEEL, UNLESS NOTED OTHERWISE.

2. SECONDARY STRUCTURAL FRAMING

a. ALL LIGHT-GAGE COLD-FORMED SECTIONS TO BE GALVANIZED STEEL WITH MINIMUM THICKNESS OF 16 GAGE. GALVANIZING TO BE COMMERICAL QUALITY G-60 COATING IN ACCORDANCE WITH ASTM A-525 SPECIFICATION, OR NON-GALVINIZED STEEL WITH EQUIVALENT

b. MEMBERS TO BE 6" (152MM), 8" (203MM) OR 10" (254MM) ZEE SHAPES USED AS EITHER PURLINS OR GIRTS, CEE SECTIONS TO BE USED FOR OPENING FRAMING OR ALTERNATE GIRTS. SECTION PROPERTIES OF ZEE AND CEE MEMBERS TO BE AS PUBLISHED (SEE CHART AT LEFT)

c. ALL SECONDARY FRAMING CONNECTIONS ARE TO BE BOLTED WITH ½" ϕ (13MM) S.A.E. GRADE 5 BLACK HEAT-TREATED BOLTS. MISCELLANEOUS STEEL CONNECTIONS MAY BE MADE WITH A-307 PLATED BOLTS OR SCREWS AS REQUIRED.

3. PANEL COATINGS

a. COLOR COATINGS OF EXPOSED ROOFING AND SIDING SHALL BE POLYCERAM 3200 THERMOSET POLYESTER MELAMINE SYSTEM, APPLIED AT 0.8 MILS NOMINAL DRY FILM THICKNESS OVER 0.2 MILS NOMINAL DRY FILM THICKNESS OF EPOXY TYPE PRIMER OVER G-90 GALVANIZED SHEET.

b. THE INTERIOR SURFACE OF COLORED ROOFING AND SIDING SHALL BE 0.15 MILS EPOXY PRIMER AND 0.35 MILS UNIVERSAL OFF-WHITE POLYESTER COATING APPLIED OVER G-90 GALVANIZED SHEET.

4. PRIMARY STRUCTURAL PAINT W/ (SP-3 PREP)

a. GARCO'S STANDARD MINIMUM 1.0 MIL THICKNESS RUST INHIBITIVE PRIMER WILL BE APPLIED TO ALL STRUCTURAL STEEL. (THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS.) AN OPTIONAL "SPECIAL PAINT" MAY BE FURNISHED AS FOLLOWS:

PROFESSIONAL STAMP

PROFESSIONAL ENGINEER – PROVINCE OF BRITISH COLUMBIA – M. K. RADMAKER

EXPIRY DATE DECEMBER 31, 1991

REVISED MARCH 8/91

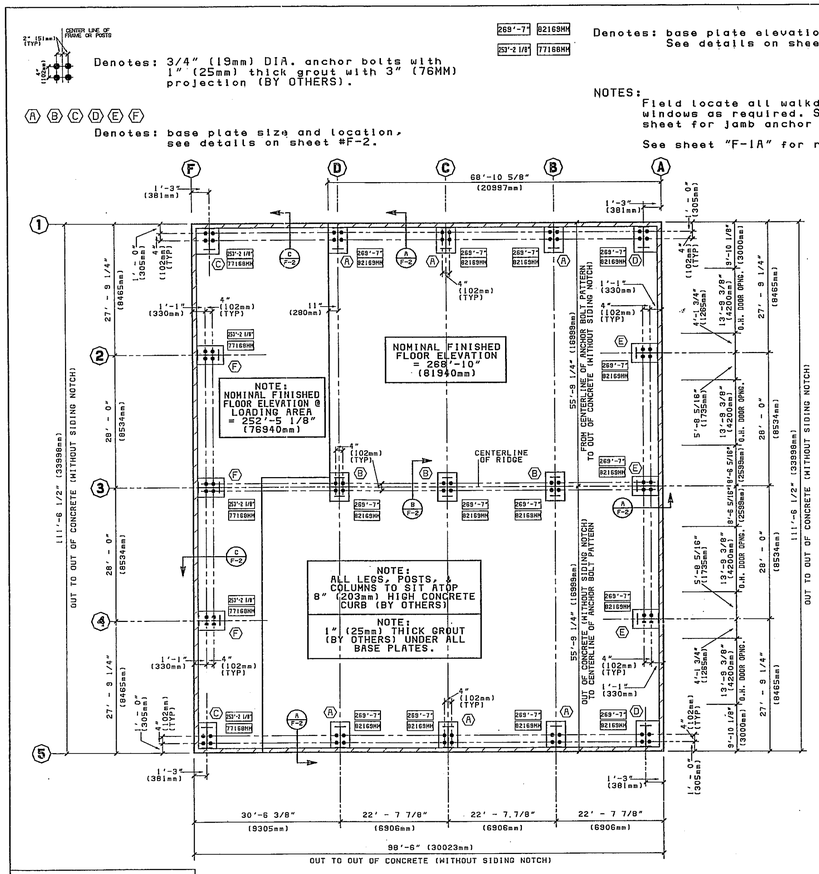
Garco Building Systems

Mailing Address:	P.O. BOX 19248 SPOKANE, WA. 99219	Phone NO#:	(509) 244-5611
Street Address:	S.2713 GARFIELD RD. AIRWAY HTS., WA. 99001	Fax NO#:	(509) 244-2850
Job Name	:REGIONAL DIST. OF NANAIMO - TRANSFER STATION		
Builder	:COLONY MANAGEMENT	Job Number:	91025
Drawn by	:D.B.P.	Drw. 1 Of 23 Sht. C-1	
Date	:3-5-91	F.E. Date :	
Checked by:			

ASSOCIATE

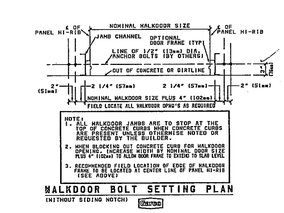
MBMA METAL BUILDING MANUFACTURERS ASSOCIATION

3-24-89



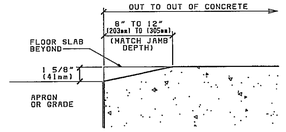
BOLT SETTING PLAN

NOT TO SCALE



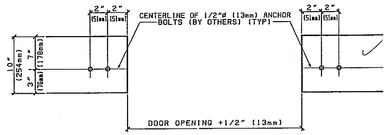
WALKDOOR BOLT SETTING PLAN

(WITHOUT SIDING NOTCH)



FLOOR SLOPE THRU OPENING WITHOUT SIDING NOTCH

(FOR VERTICAL LIFT, CANNISTER, OR OVERHEAD DOOR OPENINGS)



10" (254MM) WIDE CURB NOTCHING DETAIL FOR O.H. DOOR JAMBS

(WITHOUT SIDING NOTCH)

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M. K. RADMAKER

EXPIRY DATE: DECEMBER 31, 1991

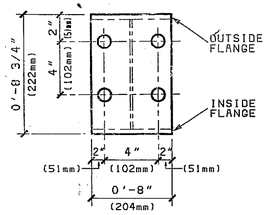
*** BUILDER NOTE ***

FOUNDATION, FOOTINGS, ANCHOR BOLT INDEDMENT, THRUST ANGLE, HAIRPIN OR TIES FOR THRUST AND ALL REINFORCING ARE TO BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER BASED ON CONCRETE STRENGTH AND SPECIFIC SOIL CONDITIONS OF THE BUILDING SITE.

REVISIONS

Garco Building Systems Spokane Washington

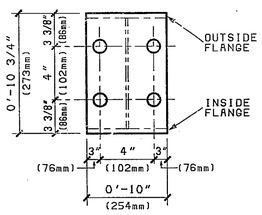
Job Name	: REGIONAL DIST. OF NANAIMO-TRANSFER STATION		
Builder	: CA-ONY MANAGEMENT		
Drawn by	: P.T.P.	Job Number:	91026
Date	: 1-MAR-91	Drw. 2 Of 23 Sht.	F-1
Checked by:	PRMc	F.E. Date :	



Ⓐ

BASE PLATE

QTY. (6)



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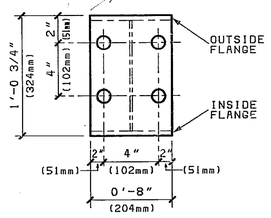
BASE PLATE

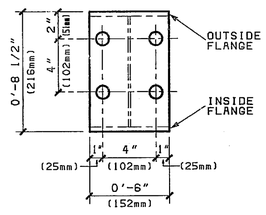
QTY. (3)



Ⓒ

BASE PLATE

QTY. (2)



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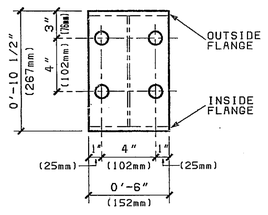
BASE PLATE

QTY. (2)



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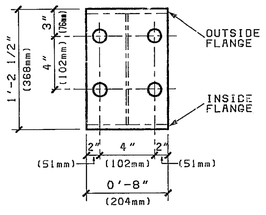
BASE PLATE

QTY. (3)



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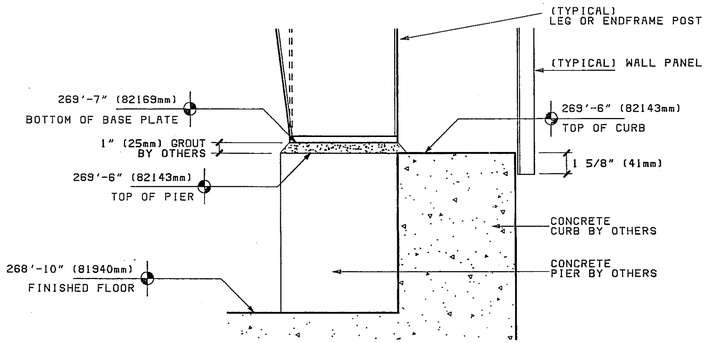
BASE PLATE

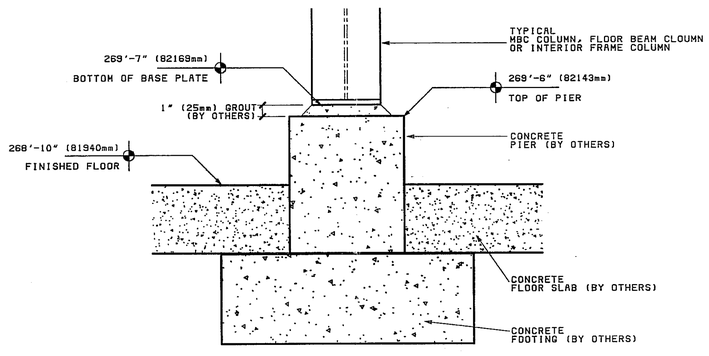
QTY. (3)

BUILDER NOTE:
BASE PLATE DETAILS MAY BE ORIENTATED IN A DIFFERENT DIRECTION THAN SHOWN ON PLAN VIEW.
NOTE - "OUTSIDE FLANGE" IS TOWARDS GIRTLINE.



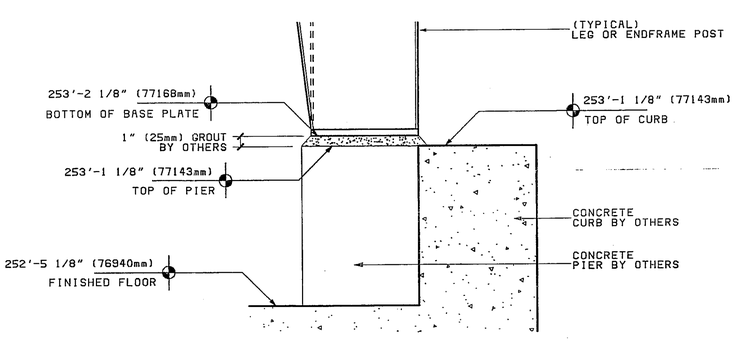
TYPICAL PIER DETAIL

SECTION "A"



TYPICAL INTERIOR PIER DETAIL

SECTION "B"



TYPICAL PIER DETAIL

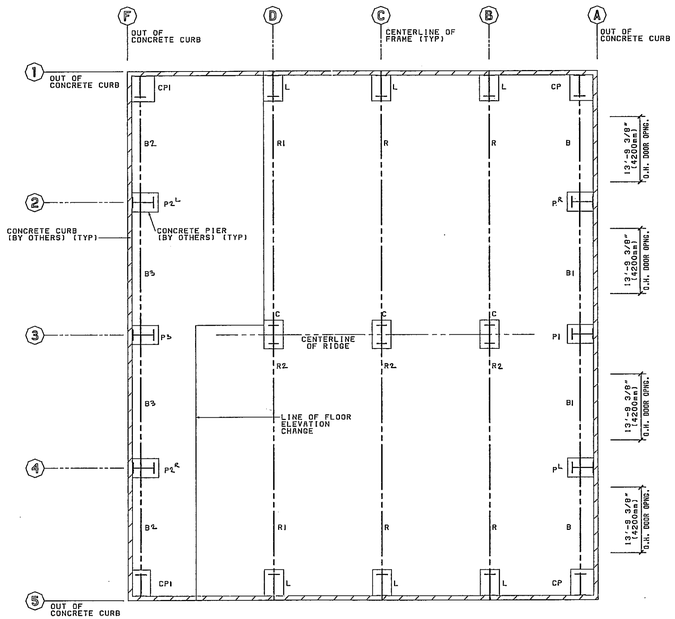
SECTION "C"

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. K. RADMAKER
EXPIRY DATE DECEMBER 31, 1991

REVISIONS

Garco Building Systems — Spokane Washington

Job Name	: REGIONAL DIST. OF NANAIMO-TRANSFER STATION		
Builder	: COLONY MANAGEMENT		
Drawn by	: P.T.P.	Job Number:	91020
Date	: 1-MAR-91	Drw. 3 Of 23 Sht.	F-2
Checked by:	PRMc	F.E. Date :	



STRUCTURAL LAYOUT PLAN

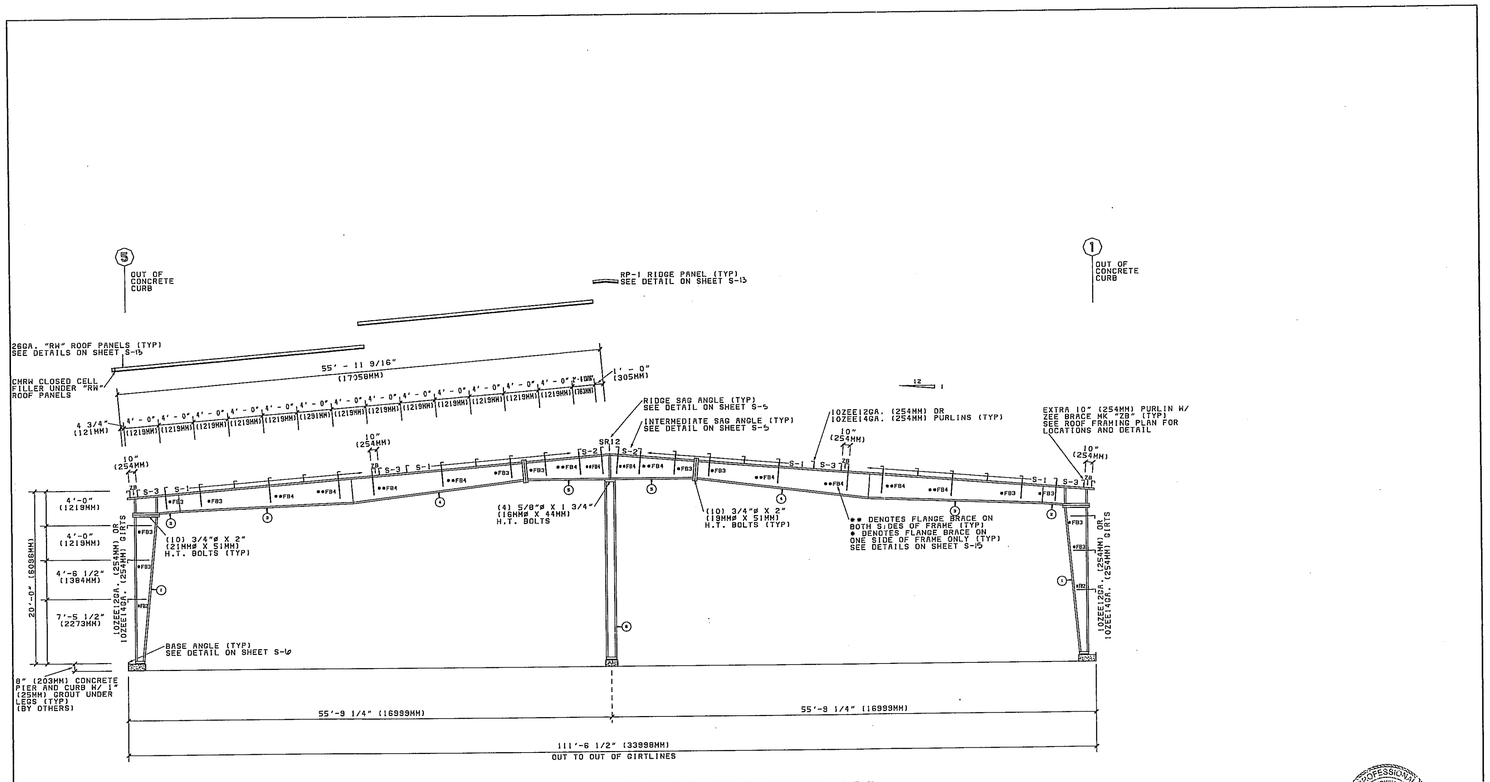
NOT TO SCALE

M. K. RADISICH
BRITISH COLUMBIA
PROFESSIONAL ENGINEER
EXPIRY DATE

REVISIONS

Garco Building Systems Spokane Washington

Job Name	:REGIONAL DIST. OF NANAIMO - TRANSFER STATION		
Builder	: COLONY MANAGEMENT		
Drawn by	: D.B.D.	Job Number:	91025
Date	: 3-4-91	Drw. 4 Of 23 Sht. S-1	
Checked by:		F.E. Date :	



CROSS SECTION AT GRIDLINES "B" THRU "D"

NOT TO SCALE

M. K. HAGMAKER — PROFESSIONAL ENGINEER — BRITISH COLUMBIA

EXPIRY DATE DECEMBER 31, 1991

*** BUILDER NOTE ***

GRNCO RECOMENDS THAT ALL HIGH STRENGTH BOLTS IN PRIMARY CONNECTIONS BE TIGHTENED TO SNUG TIGHT CONDITION EXCEPT AS RECOMMENDED BELOW.

THE EXCEPTION IS FOR BUILDINGS OVER 100 FEET IN HEIGHT, ALL STRUCTURES CARRYING CRANES OVER 5-TON CAPACITY AND CONNECTIONS FOR SUPPORTS OF RUNNING MACHINERY AS DEFINED BY "SUPPLEMENT NO. #1 TO THE AISC ADOPTED 3/1/89.

IN THESE CONDITIONS THE MANUFACTURER RECOMMENDS THE "TURN-OF-NUT" METHOD WHEN TIGHTENING A-325 BOLTS.

SEE COVER SHEET "G-1" UNDER GENERAL NOTES FOR CLARIFICATION OF TIGHTENING INSTRUCTIONS AND INSPECTION REQUIREMENTS

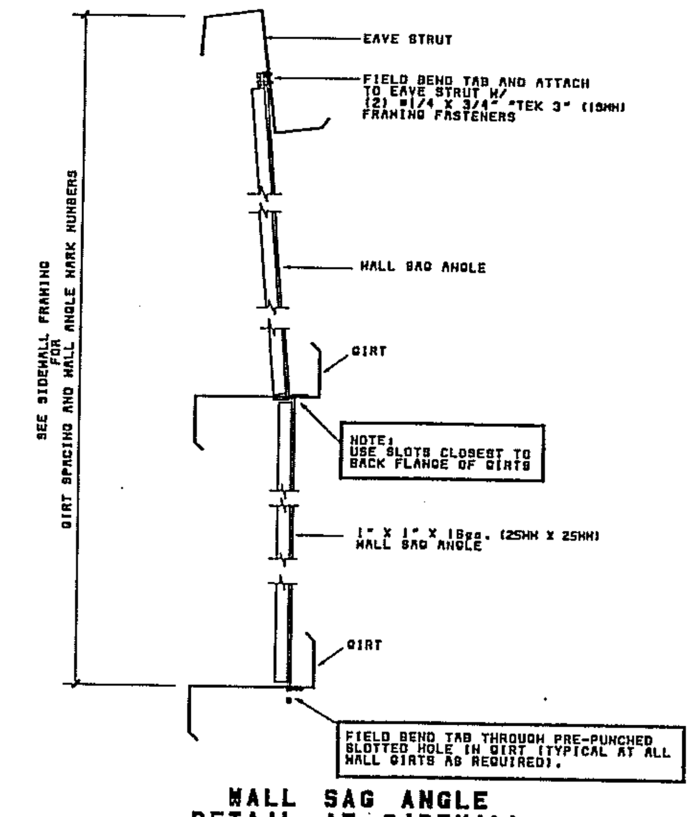
MEMBER TYPE	FLANGE WIDTH	FLANGE THICK.	WEB THICK.	INITIAL WEB DEPTH	FINAL WEB DEPTH	MEMB. NODE LENGTH(FT)	MEMBER TYPE	FLANGE WIDTH	FLANGE THICK.	WEB THICK.	INITIAL WEB DEPTH	FINAL WEB DEPTH	MEMB. NODE LENGTH(MM)
1	7.00	0.2500	0.1875	8.064IN	27.381IN	19.415	1	178MM	6MM	5MM	204MM	710MM	5613MM
2	7.00	0.2500	0.1875	22.060IN		3.938	2	178MM	6MM	5MM	560MM		1200MM
3	7.00	0.2500	0.1875		32.062IN	20.000	3	178MM	6MM	5MM		814MM	6096MM
4	7.00	0.2500	0.1875	32.062IN	22.081IN	20.073	4	178MM	6MM	5MM	814MM	561MM	6118MM
5	9.00	0.5000	0.2500	22.081IN	31.850IN	9.992	5	203MM	13MM	6MM	561MM	810MM	3045MM
6	10.00	0.3750	0.1875	10.000IN	10.000IN	22.459	6	254MM	10MM	5MM	254MM	254MM	6846MM

REVISIONS

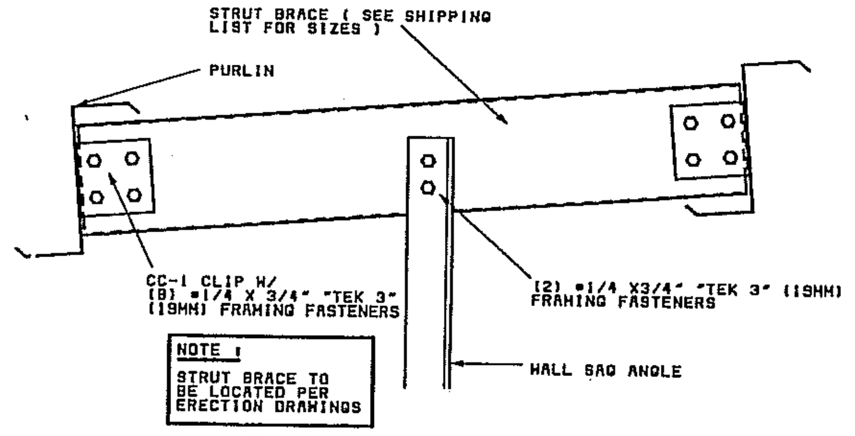
TYPE: MBCI | SLOPE: 1.000 | BAY SPACE: 25.917 (7823MM) | DEAD LOAD: 7.500
EAVE: 20.0 (6096MM) | SPAN: 111.542 (33998MM) | WIND LOAD: 12.100 | LIVE LOAD: 43.500

Garco Building Systems — Spokane Washington

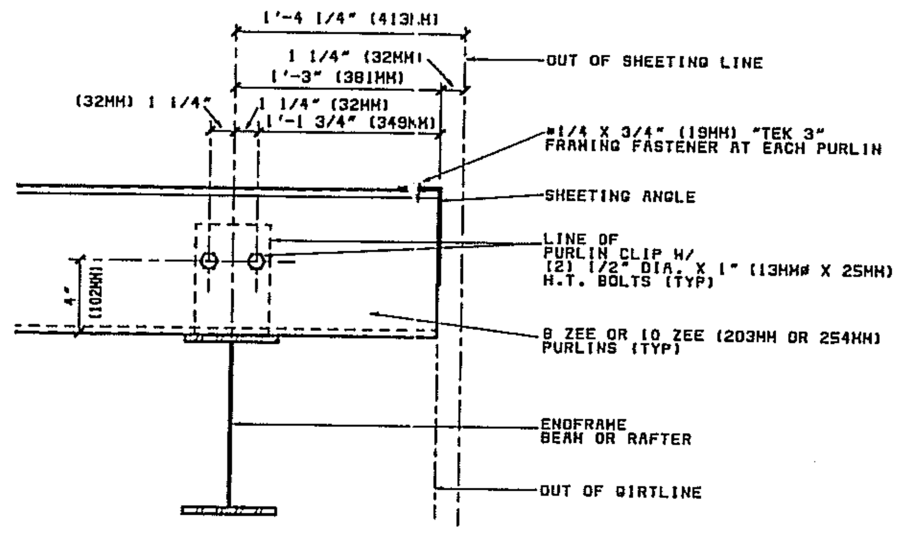
Job Name	: REGIONAL DIST. OF NANAIMO - TRANSFER STATION
Builder	: COLONY MANAGEMENT
Drawn by	: D.B.D. — Job Number: 9102D
Date	: 3-4-91 — Drw. D Of 23 Sht. S-2
Checked by:	F.E. Date :



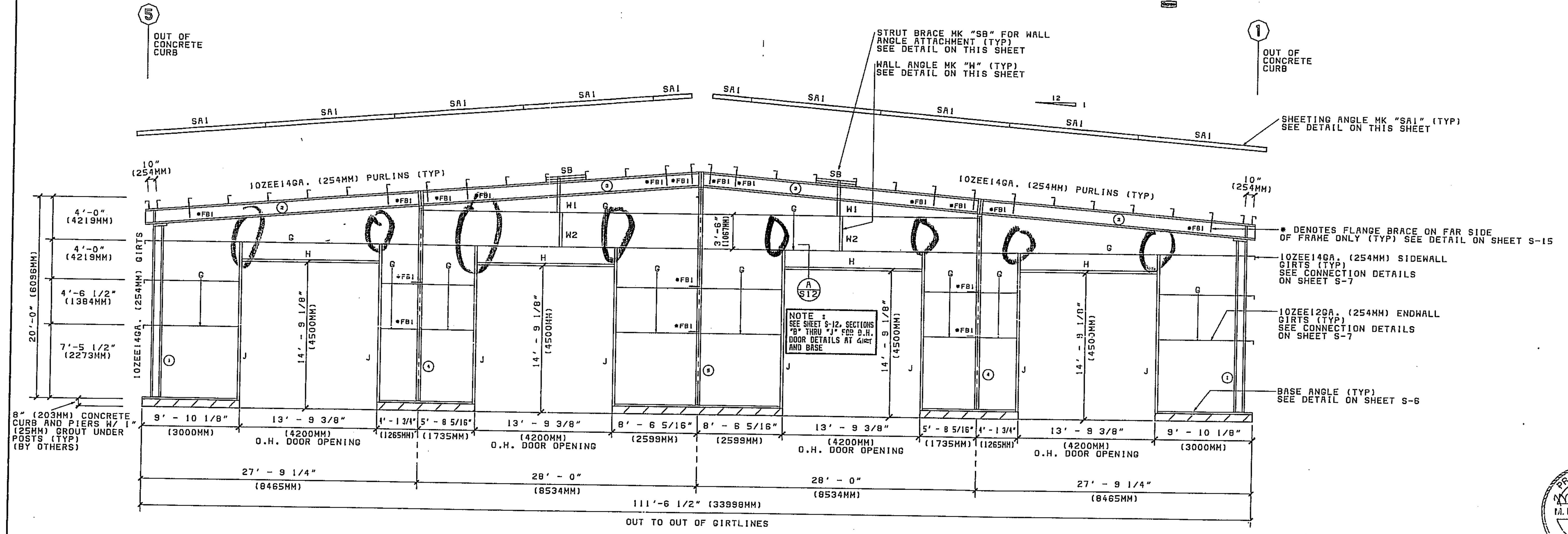
WALL SAG ANGLE
DETAIL AT SIDEWALL



WALL SAG ANGLE
TO
STRUT BRACE DETAIL
(AT ENDWALLS ONLY)



1'-4 1/4" (413MM) PURLIN / ENDWALL SETBACK)
WITH SHEETING ANGLE



ENDWALL FRAMING AT GRIDLINE "A"

NOT TO SCALE

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. K. RADMAKER

EXPIRY DATE DECEMBER 31, 1991

BUILDER NOTE :
USE (4) 5/8"ø X 1 1/2" (16MMø X 38MM) H.T. BOLTS W/ NUTS AT ALL PRIMARY MEMBER CONNECTIONS UNLESS OTHERWISE NOTED.

BUILDER NOTE:
1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED.
2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS)

*** BUILDER NOTE ***

GARCO RECOMMENDS THAT ALL HIGH STRENGTH BOLTS IN PRIMARY CONNECTIONS BE TIGHTENED TO SNUG TIGHT CONDITION EXCEPT AS RECOMMENDED BELOW.

THE EXCEPTION IS FOR BUILDINGS OVER 100 FEET IN HEIGHT, ALL STRUCTURES CARRYING CRANES OVER 5-TON CAPACITY AND CONNECTIONS FOR SUPPORTS OF RUNNING MACHINERY AS DEFINED BY "SUPPLEMENT NO. #1 TO THE AISC ADOPTED 3/11/86.

IN THESE CONDITIONS THE MANUFACTURER RECOMMENDS THE "TURN-OF-NUT" METHOD WHEN TIGHTENING A-325 BOLTS.

SEE COVER SHEET "C-1" UNDER GENERAL NOTES FOR CLARIFICATION OF TIGHTENING INSTRUCTIONS AND INSPECTION REQUIREMENTS

MEMBER TYPE	FLANGE WIDTH	FLANGE THICK.	WEB THICK.	INITIAL WEB DEPTH	FINAL WEB DEPTH	MEMB. NODE LENGTH(ft)
1	6.00	0.2500	0.1250	8.000W	8.000W	18.740
2	6.00	0.2500	0.1250	14.000W	14.000W	26.676
3	6.00	0.2500	0.1250	14.000W	14.000W	28.097
4	5.00	0.2500	0.1250	10.000W	10.000W	20.957
5	5.00	0.2500	0.1250	10.000W	10.000W	23.289

MEMBER TYPE	FLANGE WIDTH	FLANGE THICK.	WEB THICK.	INITIAL WEB DEPTH	FINAL WEB DEPTH	MEMB. NODE LENGTH(MM)
1	152MM	6MM	3MM	203MM	203MM	5712MM
2	152MM	6MM	3MM	356MM	356MM	8131MM
3	152MM	6MM	3MM	356MM	356MM	8564MM
4	127MM	6MM	3MM	254MM	254MM	6388MM
5	127MM	6MM	3MM	254MM	254MM	7099MM

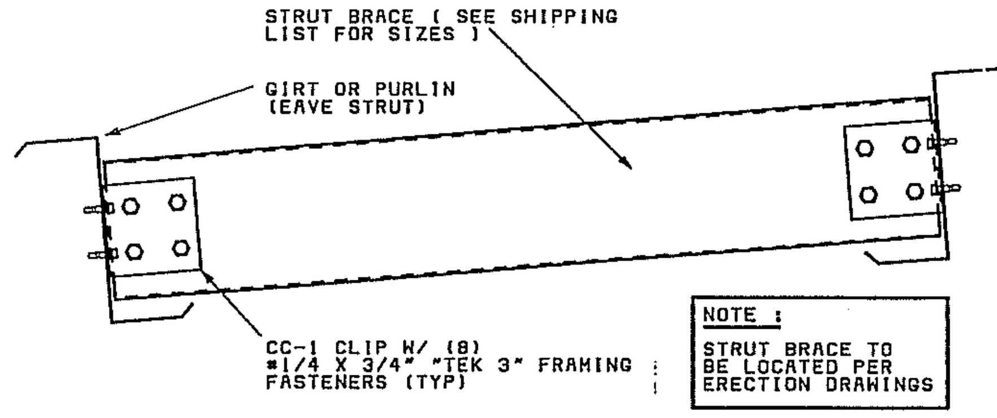
REVISIONS

TYPE: EF3	SLOPE: 1.000	BAY SPACE: 11.953 (3643MM)	DEAD LOAD: 2.500
EAVE: 20.0 (6096MM)	SPAN: 111.542 (33999MM)	WIND LOAD: 12.100	LIVE LOAD: 43.500

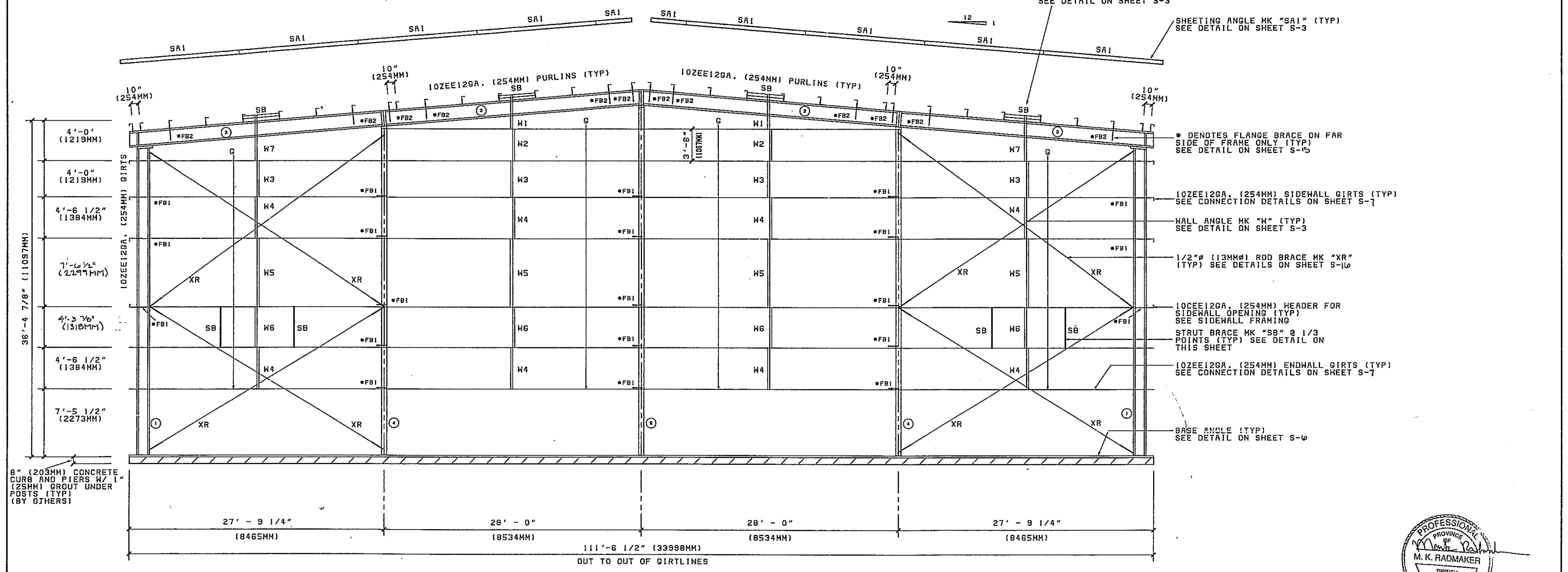
Garco Building Systems Spokane Washington

Job Name	: REGIONAL DIST. OF NANAIMO - TRANSFER STATION		
Builder	: COLONY MANAGEMENT		
Drawn by	: D.B.D.	Job Number:	91025
Date	: 3-4-91	Drw. 6 Of 23 Sht. S-3	
Checked by:		F.E. Date :	

5



STRUT BRACE



ENDWALL FRAMING AT GRIDLINE "F"

NOT TO SCALE

EXPIRY DATE DECEMBER 31, 19--

BUILDER NOTE :
USE (4) 5/8"ø X 1 1/2" (16MMø X 38MM) H.T. BOLTS W/ NUTS AT ALL PRIMARY MEMBER CONNECTIONS UNLESS OTHERWISE NOTED.

BUILDER NOTE:
1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED.
2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS)

*** BUILDER NOTE ***

GARCO RECOMMENDS THAT ALL HIGH STRENGTH BOLTS IN PRIMARY CONNECTIONS BE TIGHTENED TO SNUG TIGHT CONDITION EXCEPT AS RECOMMENDED BELOW.

THE EXCEPTION IS FOR BUILDINGS OVER 100 FEET IN HEIGHT, ALL STRUCTURES CARRYING CRANES OVER 5-TON CAPACITY AND CONNECTIONS FOR SUPPORTS OF RUNNING MACHINERY AS DEFINED BY "SUPPLEMENT NO. #1 TO THE AISC ADOPTED 3/11/86.

IN THESE CONDITIONS THE MANUFACTURER RECOMMENDS THE "TURN-OF-NUT" METHOD WHEN TIGHTENING A-325 BOLTS.

SEE COVER SHEET "C-1" UNDER GENERAL NOTES FOR CLARIFICATION OF TIGHTENING INSTRUCTIONS AND INSPECTION REQUIREMENTS

MEMBER TYPE	FLANGE WIDTH	FLANGE THICK.	WEB THICK.	INITIAL WEB DEPTH	FINAL WEB DEPTH	MEMB. NODE LENGTH(ft)
1	8.00	0.3750	0.1250	12.000W	12.000W	34.993
2	7.00	0.2500	0.1875	16.000W	16.000W	26.508
3	7.00	0.2500	0.1875	16.000W	16.000W	28.097
4	7.00	0.2500	0.1250	14.000W	14.000W	37.194
5	7.00	0.2500	0.1250	14.000W	14.000W	39.528

MEMBER TYPE	FLANGE WIDTH	FLANGE THICK.	WEB THICK.	INITIAL WEB DEPTH	FINAL WEB DEPTH	MEMB. NODE LENGTH(MM)
1	203MM	10MM	3MM	305MM	305MM	10666MM
2	178MM	6MM	5MM	406MM	406MM	8080MM
3	178MM	6MM	5MM	406MM	406MM	8564MM
4	178MM	6MM	3MM	356MM	356MM	11337MM
5	178MM	6MM	3MM	356MM	356MM	12048MM

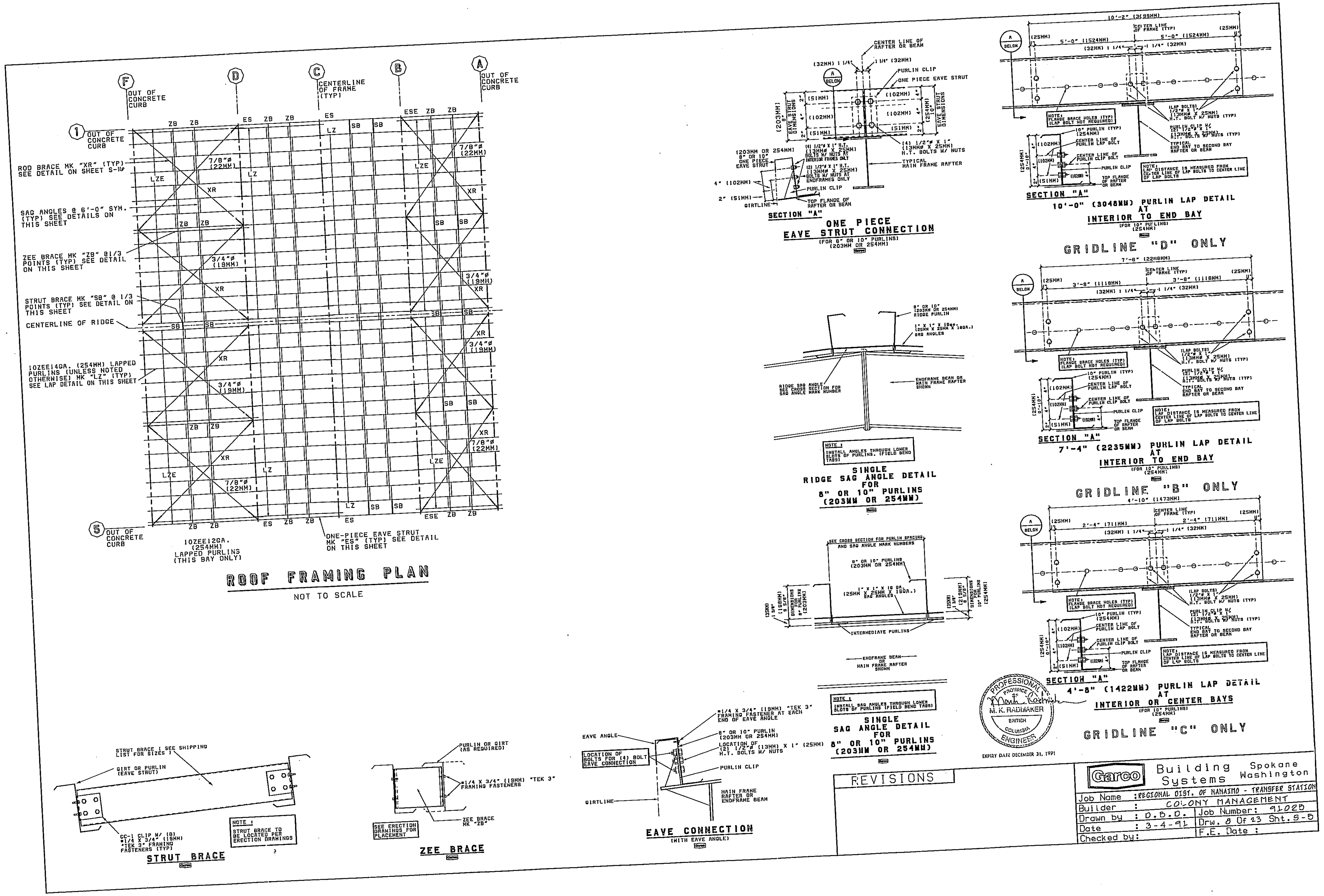
REVISIONS

TYPE: EF3	SLOPE: 1.000	BAY SPACE: 15.891 (4844MM)	DEAD LOAD: 2.500
EAVE: 36.406 (11097MM)	SPAN: 111.542 (33998MM)	WIND LOAD: 12.100	LIVE LOAD: 43.500

Garco Building Systems Spokane Washington

Job Name : REGIONAL DIST. OF NANAIMO - TRANSFER STATION	
Builder : COLONY MANAGEMENT	
Drawn by : D.B.D.	Job Number: 91025
Date : 3-4-91	Drw. 7 Of 23 Sht. S-4
Checked by:	F.E. Date :

6


ROOF FRAMING PLAN
NOT TO SCALE
ROD BRACE MK "XR" (TYP) SEE DETAIL ON SHEET S-10
SAG ANGLES @ 6'-0" SYM. (TYP) SEE DETAILS ON THIS SHEET
ZEE BRACE MK "ZB" @1/3 POINTS (TYP) SEE DETAIL ON THIS SHEET
STRUT BRACE MK "SB" @ 1/3 POINTS (TYP) SEE DETAIL ON THIS SHEET
CENTERLINE OF RIDGE
10ZEE14GA. (254MM) LAPPED PURLINS (UNLESS NOTED OTHERWISE) MK "LZ" (TYP) SEE LAP DETAIL ON THIS SHEET
10ZEE12GA. (254MM) LAPPED PURLINS (THIS BAY ONLY)
ONE-PIECE EAVE STRUT MK "ES" (TYP) SEE DETAIL ON THIS SHEET
OUT OF CONCRETE CURB
CENTERLINE OF FRAME (TYP)
SECTION "A"
ONE PIECE EAVE STRUT CONNECTION
(FOR 8" OR 10" PURLINS) (203MM OR 254MM)
SINGLE RIDGE SAG ANGLE DETAIL FOR 8" OR 10" PURLINS (203MM OR 254MM)
NOTE: INSTALL ANGLES THROUGH LOWER SLOTS OF PURLINS. (FIELD BEND TABS)
NOTE: INSTALL SAG ANGLES THROUGH LOWER SLOTS OF PURLINS (FIELD BEND TABS)
SINGLE SAG ANGLE DETAIL FOR 8" OR 10" PURLINS (203MM OR 254MM)
10'-0" (3048MM) PURLIN LAP DETAIL AT INTERIOR TO END BAY
(FOR 10" PURLINS) (254MM)
GRIDLINE "D" ONLY
7'-4" (2235MM) PURLIN LAP DETAIL AT INTERIOR TO END BAY
GRIDLINE "B" ONLY
4'-8" (1422MM) PURLIN LAP DETAIL AT INTERIOR OR CENTER BAYS
GRIDLINE "C" ONLY
STRUT BRACE
ZEE BRACE
EAVE CONNECTION
(WITH EAVE ANGLE)
NOTE: STRUT BRACE TO BE LOCATED PER ERECTION DRAWINGS
SEE ERECTION DRAWINGS FOR PLACEMENT
PROFESSIONAL ENGINEERS PROVINCE OF BRITISH COLUMBIA M. K. RADMAKER
EXPIRY DATE DECEMBER 31, 1991
REVISIONS
Garco Building Systems Spokane Washington
Job Name :REGIONAL DIST. OF NANAIMO - TRANSFER STATION
Builder : COLONY MANAGEMENT
Drawn by : D.B.D.
Job Number: 91025
Date : 3-4-91
Drw. 8 Of 23 Sht. S-5
Checked by:
F.E. Date :

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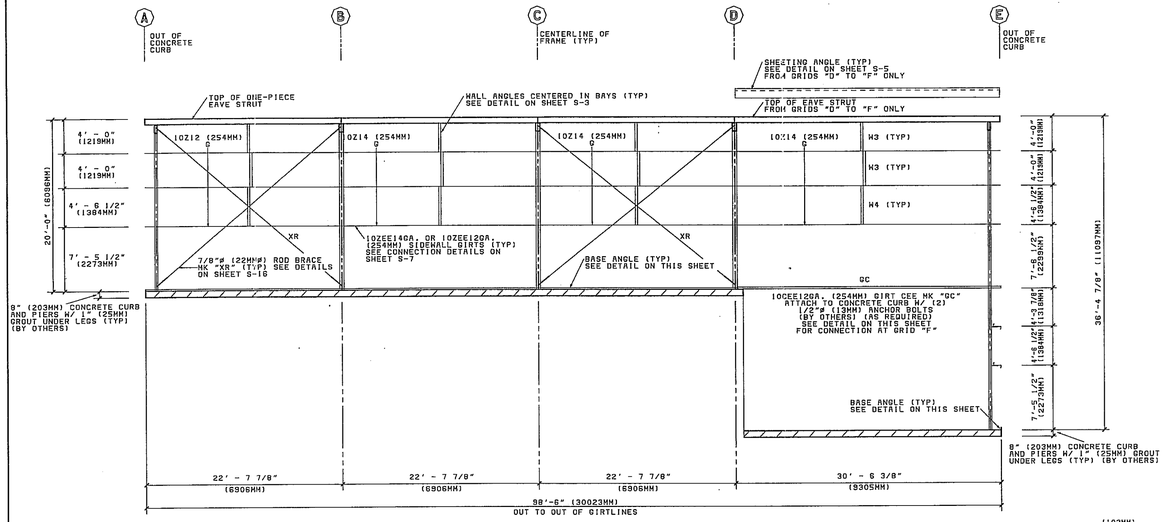
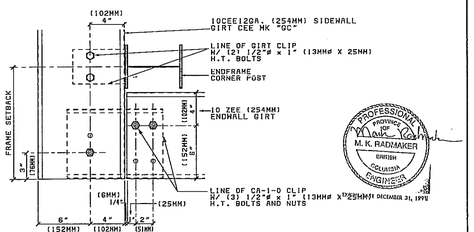
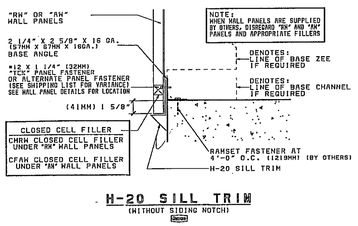


SIDEWALL FRAMING AT GRIDLINE "I"

NOT TO SCALE



10CEE12GA. (254MM) CONNECTION DETAIL



H-20 SILL TRIM

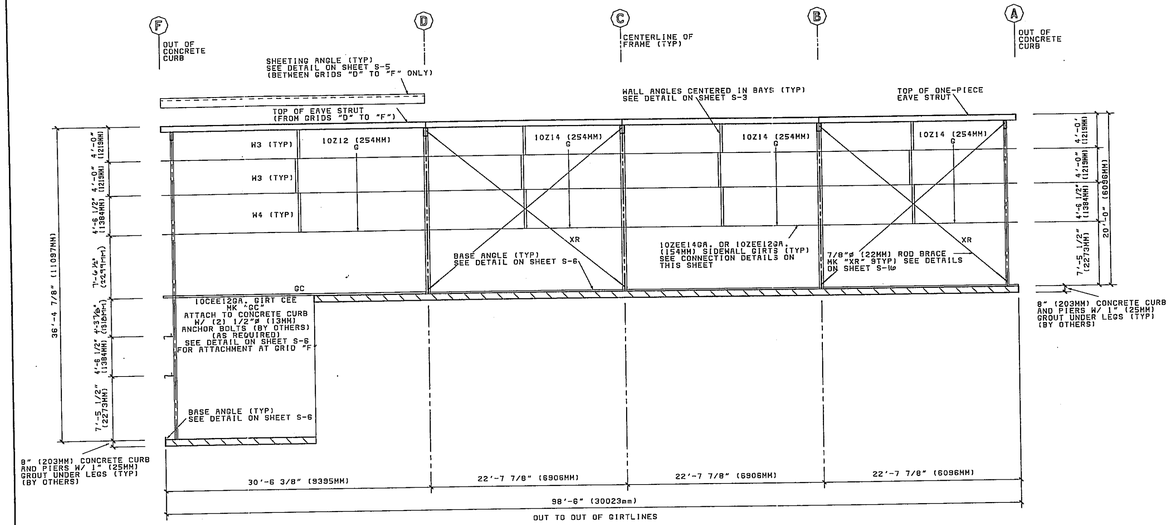
(WITHOUT SIDING NOTCH)

BUILDER NOTE:
1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED.
2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS)

REVISIONS

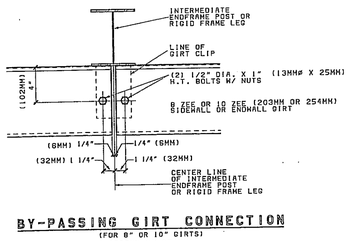
Garco Building Systems Spokane Washington

Job Name	: REGIONAL DIST. OF NANAIMO - TRANSFER STATION
Builder	: COLONY MANAGEMENT
Drawn by	: D.B.D. Job Number: 91025
Date	: 3-4-91 Drw. 9 Of 23 Sht. S-8
Checked by:	F.E. Date :



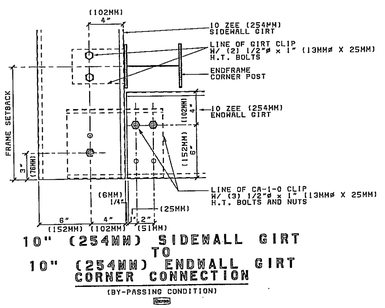
SIDEWALL FRAMING AT GRIDLINE "5"

NOT TO SCALE



BY-PASSING GIRT CONNECTION

(FOR 8" OR 10" GIRTS) (203MM OR 254MM)



10" (254MM) SIDEWALL GIRT TO 10" (254MM) ENDWALL GIRT CORNER CONNECTION

(BY-PASSING CONDITION)

PROFESSIONAL ENGINEER — REGISTERED — M.K. RAKOWAKER — BRITISH COLUMBIA

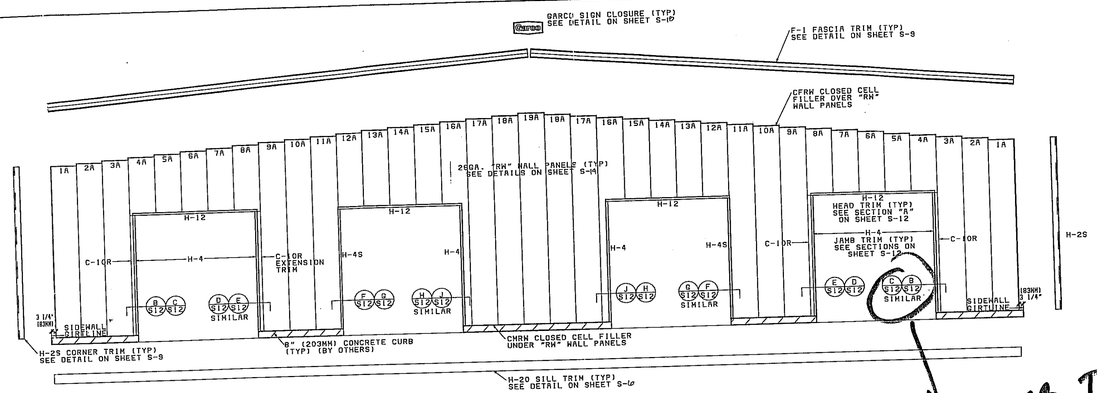
EXPIRY DATE DECEMBER 31, 1991

BUILDER NOTE:
1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED.
2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS)

REVISIONS

Garco Building Systems Spokane Washington

Job Name	: REGIONAL DIST. OF NANAIMO - TRANSFER STATION
Builder	: COLONY MANAGEMENT
Drawn by	: D.B.D. — Job Number: 9102B
Date	: 3-4-91 — Drw.10 Of 23 Sht. S-7
Checked by:	F.E. Date :



ENDWALL PANEL LAYOUT AT GRIDLINE "A"

NOT TO SCALE

W JAMB TRIM

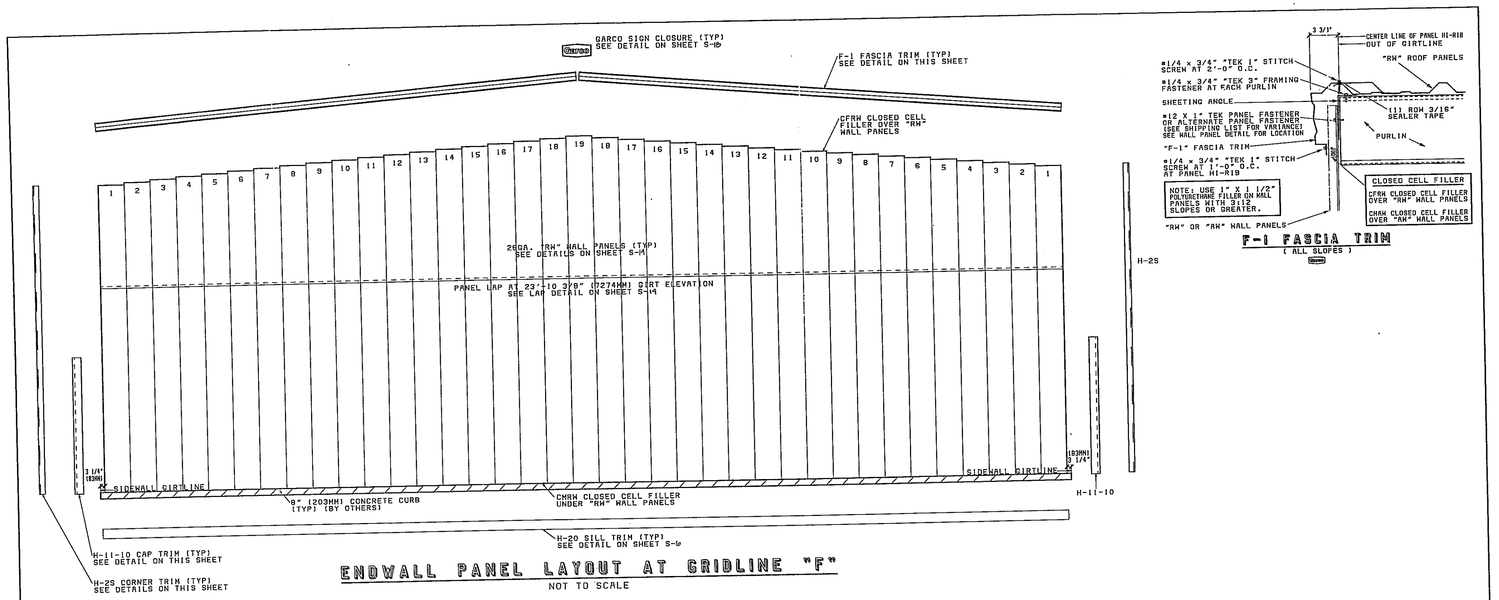
M.K. RADMAKER
EXPIRES: DECEMBER 31, 1991

BUILDER NOTE:
1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED.
2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS)

REVISIONS

Garco Building Systems Spokane Washington

Job Name : REGIONAL DIST. OF NANAIMO - TRANSFER STATION	
Builder : COLONY MANAGEMENT	
Drawn by : D.B.D.	Job Number: 91025
Date : 3-4-91	Drw.11 Of 23 Sht. S-8
Checked by:	F.E. Date :

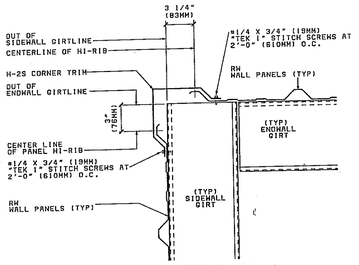


ENDWALL PANEL LAYOUT AT GRIDLINE "F"

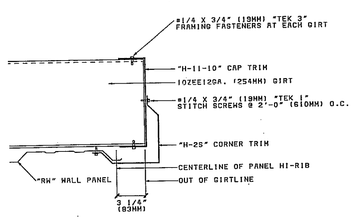
NOT TO SCALE

F-1 FASCIA TRIM

(ALL SLOPES)



"H-2S" CORNER TRIM



"H-11-10" CAP TRIM W/ "H-2S" CORNER TRIM

BUILDER NOTE:
1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED.
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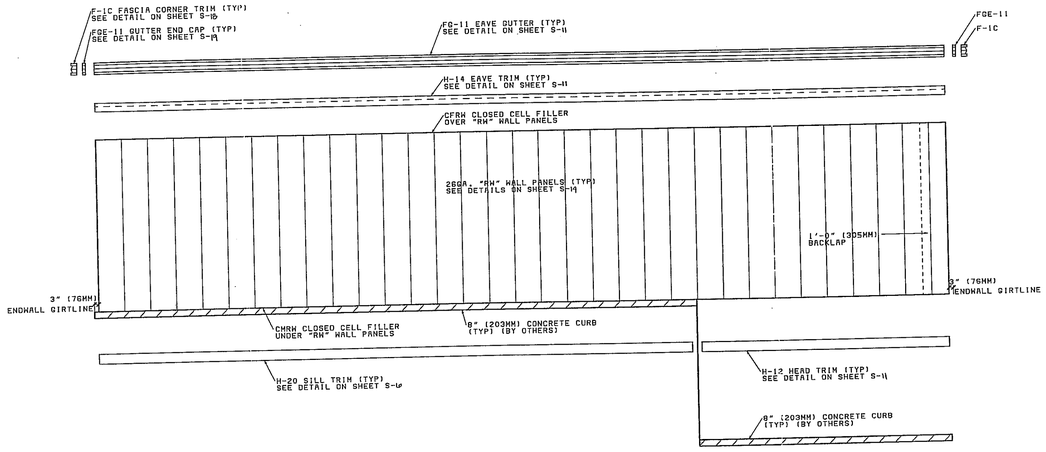
REVISIONS

Garco Building Systems — Spokane Washington

Job Name	: REGIONAL DIST. OF NANAIMO - TRANSFER STATION
Builder	: COLONY MANAGEMENT
Drawn by	: D.B.D. Job Number: 91025
Date	: 3-4-91 Drw. 20F 23 Sht. S-9
Checked by:	F.E. Date :



SIDEWALL PANEL LAYOUT AT GRIDLINE "I"

NOT TO SCALE

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. K. RADMAKER
ENGINEER
STATE OF WASHINGTON

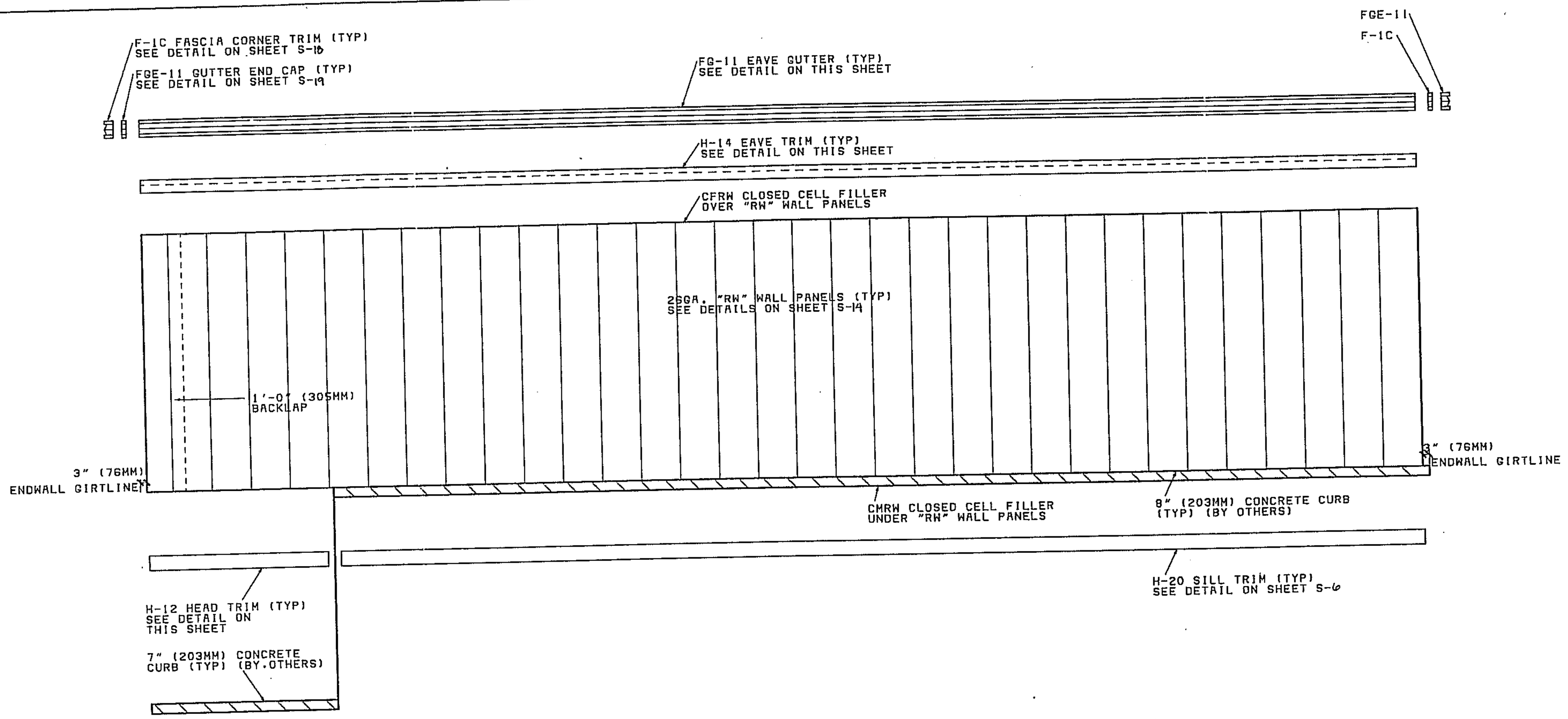
EXPIRY DATE DECEMBER 31, 1991

BUILDER NOTE:
1. FIELD LOCATE ALL WALKDOOR, WINDOW, AND LOUVER OPENINGS AS REQUIRED.
2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS)

REVISIONS

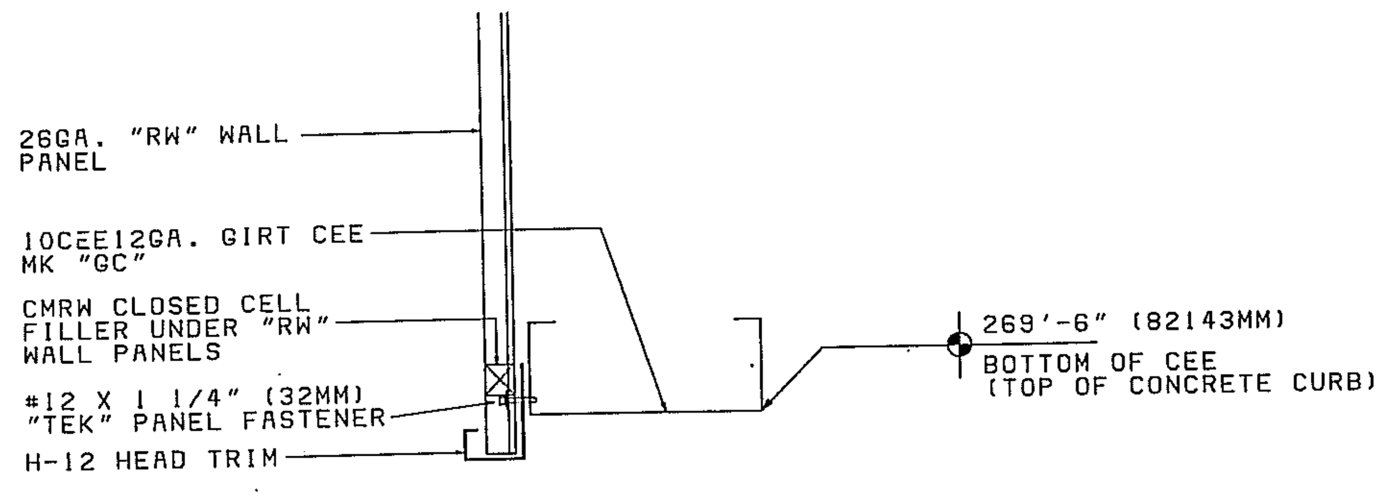
Garco Building Systems Spokane Washington

Job Name : REGIONAL DIST. OF NANAIMO - TRANSFER STATION	
Builder : COLONY MANAGEMENT	
Drawn by : D.B.D.	Job Number: 91225
Date : 3-4-91	Drw.13 Of 25 Sht.S-10
Checked by:	F.E. Date :



SIDEWALL PANEL LAYOUT AT GRIDLINE "5"

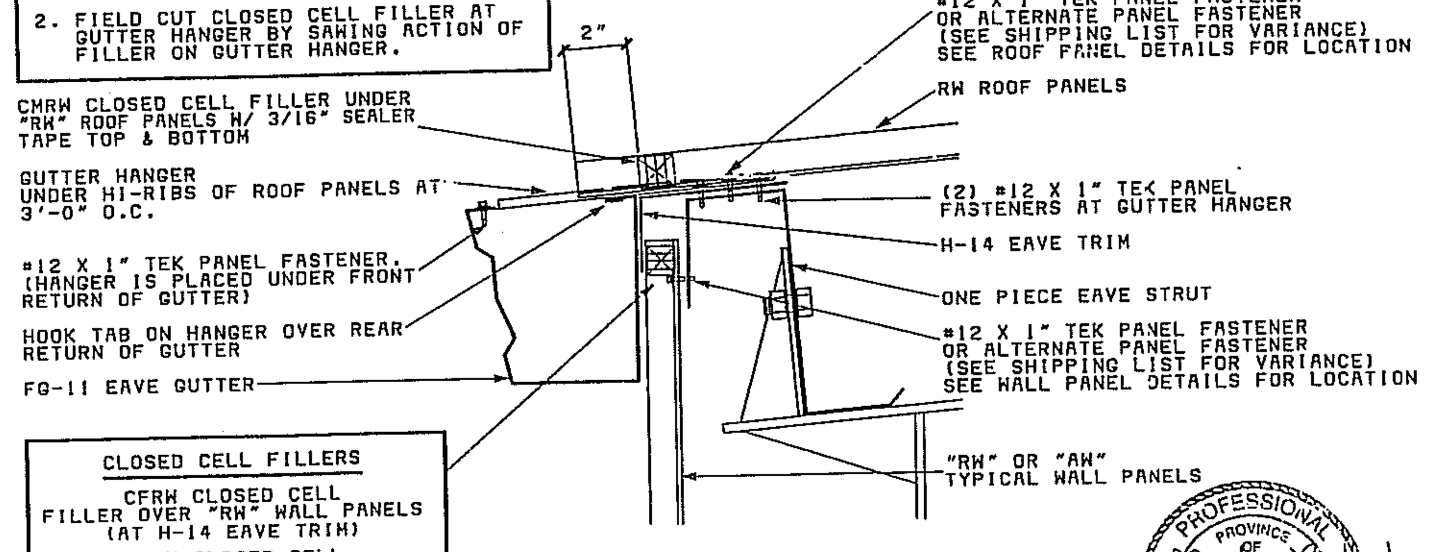
NOT TO SCALE



"H-12" HEAD TRIM AT OPENING

WARNING:

1. GUTTER HANGERS MUST BE INSTALLED AT HIGH RIB LOCATION PRIOR TO ROOF PANEL INSTALLATION.
2. FIELD CUT CLOSED CELL FILLER AT GUTTER HANGER BY SAWING ACTION OF FILLER ON GUTTER HANGER.



CLOSED CELL FILLERS

CFRW CLOSED CELL FILLER OVER "RW" WALL PANELS (AT H-14 EAVE TRIM)

CMAW CLOSED CELL FILLER OVER "AW" WALL PANELS (AT H-14 EAVE TRIM)

"FG-11" EAVE GUTTER

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — M. K. RADMAKER

EXPIRY DATE DECEMBER 31, 1991

BUILDER NOTE:
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2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR, WINDOW, AND LOUVER OPENINGS (SEE ERECTION DRAWINGS OR STANDARD DETAILS FOR THE APPROPRIATE CONNECTION DETAILS)

REVISIONS

Garco Building Systems — Spokane Washington

Job Name	:REGIONAL DIST. OF NANAIMO - TRANSFER STATION
Builder	: COLONY MANAGEMENT
Drawn by	: D.B.D. — Job Number: 91025
Date	: 3-4-91 — Drw.14 Of 23 Sht.S-11
Checked by:	F.E. Date :

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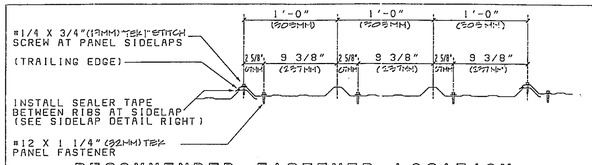
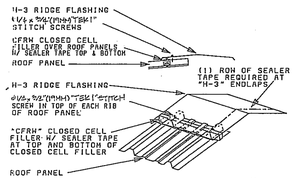
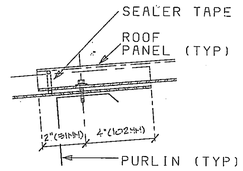


RECOMMENDED FASTENER LOCATION AT INTERMEDIATE PURLINS

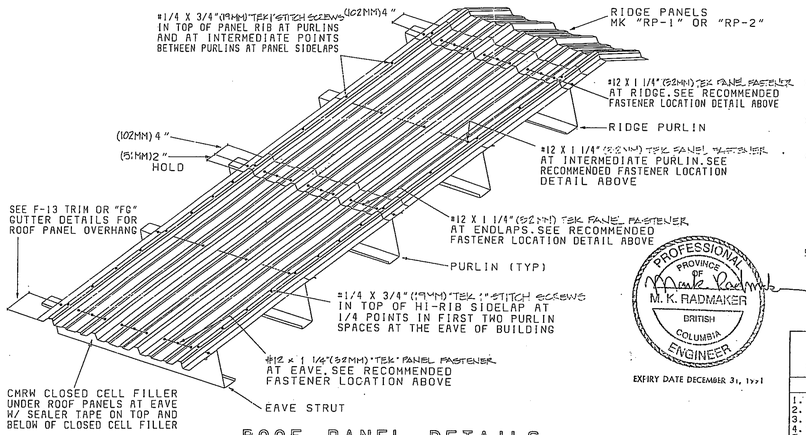


GREATER THAN 2:12 ROOF SLOPE



ENDLAP DETAIL

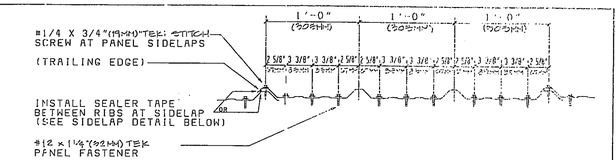
SIDELAP DETAIL



ROOF PANEL DETAILS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M. K. RADMAKER

EXPIRY DATE DECEMBER 31, 1991



RECOMMENDED FASTENER LOCATION AT EAVE, ENDLAPS, & RIDGE USING RP-1, RP-2, & M-2

INSTALLATION INSTRUCTIONS FOR "RW" ROOF PANELS ON STEEL PURLINS

GARCO "RW" PANELS ARE DESIGNED WITH DEFINITE LEADING AND TRAILING EDGES (SIDES). THE FOLLOWING INSTRUCTIONS, IF ADHERED TO, WILL INSURE A WEATHER TIGHT INSTALLATION.

1. PREDRILLING OF FASTENER AND STITCH SCREW HOLES WILL GREATLY REDUCE PANEL APPLICATION TIME, IMPROVE APPEARANCE, AND PROVIDE FOR BETTER SIDELAP SEALING.

   A. DETERMINE PANEL LENGTHS AND LAYOUT ON THE ROOF BY THE USE OF THE ERECTION DRAWINGS (CROSS SECTION AND/OR ROOF PANEL LAYOUT), ALSO FIELD CHECK PURLIN SPACE DIMENSIONS. MAKE DETERMINATION OF FASTENER LOCATIONS.

   B. STACK PANELS IN A MANNER THAT WILL MAKE THE PANELS FLUSH AT ONE END. THIS WILL BE THE EXPOSED (EAVE OR ENDLAPS) ENDS. ALL PANELS OF THE SAME LENGTH, THAT ARE TO BE LAID IN THE SAME DIRECTION OR PLACED ON THE SAME SIDE OF THE BUILDING, MUST BE STACKED TOGETHER. NOTE! DO NOT STACK MORE THAN 10 SHEETS AT ONE TIME.

   C. DRILL HOLES FOR FASTENER AND STITCH SCREWS WITH 1/8"(3MM) SPLIT-POINT DRILL BIT. REFER TO DETAILS ABOVE FOR THE RECOMMENDED FASTENER LOCATIONS. REFER TO ROOF PANEL DETAIL FOR STITCH SCREW LOCATIONS. NOTE! DRILL HOLES FOR STITCH SCREWS ON THE CENTERLINE OF HI-RIB AT THE TRAILING EDGE ONLY. (USE 5/32"(4MM) SPLIT-POINT DRILL BIT FOR STAND-OFF FASTENERS.)

2. SWEEP OR WIPE DRILL TAILINGS FROM PANELS. BARE STEEL DRILL TAILINGS CAN CAUSE RUST OVERNIGHT, PARTICULARLY ON COLORED PANELS.

3. SEALER TAPE IS REQUIRED BETWEEN ALL ROOF PANEL SIDELAPS AND ENDLAPS. SEALER TAPE MAY BE INSTALLED EITHER ON THE GROUND AS THE PANELS ARE TAKEN FROM THE STACK, OR ON THE ROOF AS THE PANELS ARE BEING FASTENED.

4. ATTACHMENT OF ROOF PANELS TO STEEL PURLINS IS ACCOMPLISHED WITH #12x1 1/4"(32MM) "TEK" SELF-DRILLING PANEL FASTENERS (NOTE! OTHER FASTENERS MAY BE REQUIRED IN LIEU OF #12x1 1/4"(32MM) REFER TO MATERIAL LIST FOR VARIATIONS). USE A SCREW GUN OR A VARIABLE SPEED DRILL WITH A 5/16"(8MM) SOCKET TO INSTALL PANEL FASTENERS THROUGH THE PREDRILLED PANEL HOLES. WHEN INSTALLING THE PROPER FASTENERS (PLAIN OR COLORED), DO NOT OVERTIGHTEN OR SPIN OUT THE NEOPRENE WASHER. THE WASHER ONLY, SHOULD BE IN FIRM CONTACT WITH THE PANEL. OVERTIGHTENING MAY CAUSE A "CANNING EFFECT" ON THE ROOF PANELS, CAUSING AN UNDESIRABLE APPEARANCE.

5. STITCHING OF PANEL SIDELAPS IS ACCOMPLISHED WITH #12x3/4"(19MM) "TEK" SELF-DRILLING STITCH SCREWS. USE A SCREW GUN OR A VARIABLE SPEED DRILL WITH A 5/16"(8MM) SOCKET TO INSTALL STITCH SCREWS THROUGH THE PREDRILLED HOLE IN THE OVERLAPPING RIB (TRAILING EDGE). USE THE PROPER SCREW (PLAIN OR COLORED) FOR INSTALLATION. THE SCREW MUST BE ALLOWED TO DRILL ITS OWN HOLE THROUGH THE UNDERLAPPING RIB. (DO NOT FORCE SCREW). FORCING THE SCREW MAY CAUSE THE SIDELAP RIB TO BE PUSHED DOWN, RESULTING IN OFFSET HOLES AND MISALIGNMENT, WHICH PREVENTS POSITIVE SIDELAP SEALING.

BUILDER NOTE: (REFERENCE CLOSED CELL FILLERS)

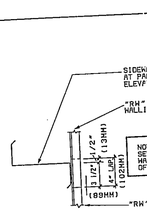
1. USE (1) ROW OF SEALER TAPE TOP AND BOTTOM OF ALL CLOSED CELL FILLERS AT ROOF PANELS.
2. LOCATE ALL CLOSED CELL FILLER ON WEATHER SIDE OF FASTENERS.

REVISIONS

1. 16-MARCH-89
2. 12-APRIL-89
3. 9-JUNE-89 (RLK)
4. 31-OCT-89 (RLK)
5. METRIC CONVERSION (7-15-90)

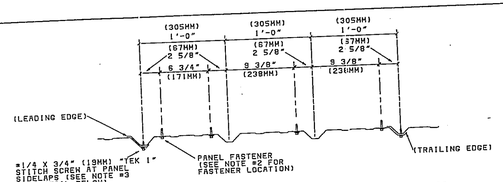
Garco Building Systems Spokane Washington

Job Name	:NANAIMO TRANSFER STATION		
Builder	:COLONY MANAGEMENT		
Drawn by:	:D.B.D.	Job Number:	9025
Date	:3-5-91	Drw. No.	Of 23 Sht. S-13
Checked by:		P.E. Date:	

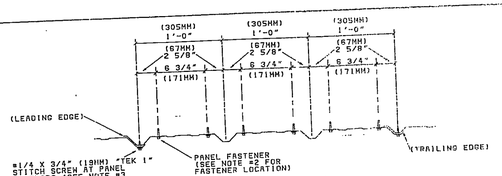


WALL PANEL LAP DETAIL

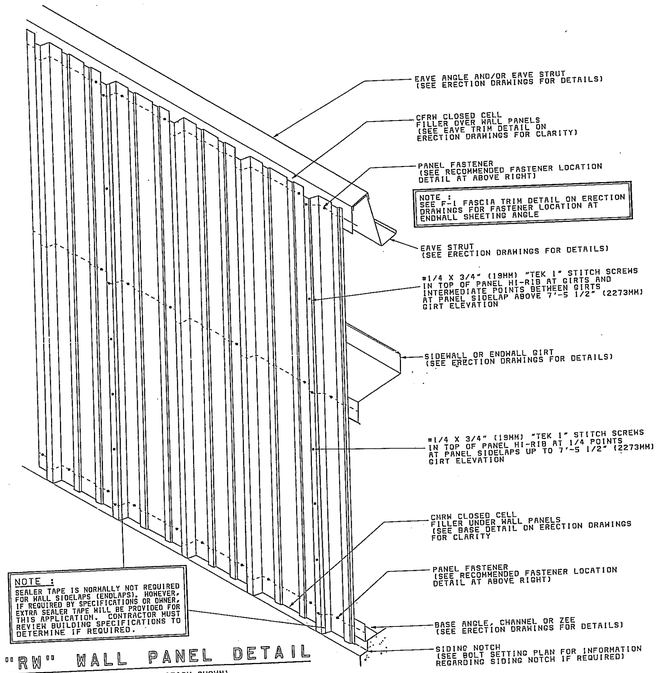
(FIGURE OPPOSITE FOR REVERSE GIRTS)



RECOMMENDED FASTENER LOCATION FOR "RW" WALL PANELS AT EAVE AND INTERMEDIATE GIRTS



RECOMMENDED FASTENER LOCATION FOR "RW" WALL PANELS AT BASE AND ENDLAPS



"RW" WALL PANEL DETAIL

(SIDEWALL CONDITION SHOWN)

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M.K. RAUMAKER

EXPIRY DATE DECEMBER 31, 1991.

INSTALLATION INSTRUCTIONS FOR "RW" WALL PANEL ON STEEL GIRTS

CARCO "RW" PANELS ARE DESIGNED WITH DEFINITE LEADING AND TRAILING EDGES (SIDES). THE FOLLOWING INSTRUCTIONS, IF ADHERED TO, WILL INSURE A WEATHER TIGHT INSTALLATION.

1. PREDRILLING OF FASTENER AND STITCH SCREW HOLES WILL GREATLY REDUCE PANEL APPLICATION TIME, IMPROVE APPEARANCE AND PROVIDE FOR BETTER SIDELAP SEALING.

   A. DETERMINE PANEL LENGTHS AND LAYOUT ON THE WALL BY THE USE OF THE ERECTION DRAWINGS (SIDEWALL OR ENDWALL PANEL LAYOUT), ALSO FIELD CHECK GIRT SPACE DIMENSIONS. MAKE DETERMINATION OF FASTENER LOCATIONS.

   B. STACK PANELS IN A MANNER THAT WILL MAKE THE PANELS FLUSH AT ONE END. THIS WILL BE THE EXPOSED (BASE OR ENDLAPS) ENDS. ALL PANELS OF THE SAME LENGTH, THAT ARE TO BE LAID IN THE SAME DIRECTION OR PLACED ON THE SAME SIDE OF THE BUILDING, MUST BE STACKED TOGETHER. NOTE! DO NOT STACK MORE THAN 10 SHEETS AT ONE TIME.

   C. DRILL HOLES FOR FASTENERS AND STITCH SCREWS WITH 1/4" (6MM) SPLIT-POINT DRILL BIT. REFER TO DETAILS ABOVE FOR THE RECOMMENDED FASTENER LOCATIONS. REFER TO WALL PANEL DETAIL FOR STITCH SCREW LOCATIONS. NOTE! DRILL HOLES FOR STITCH SCREWS ON THE CENTERLINE OF HI-RIB AT THE TRAILING EDGE ONLY.

2. THE STANDARD ATTACHMENT OF WALL PANELS TO STEEL GIRTS IS ACCOMPLISHED WITH #12 X 1 1/4" (32MM) "TEK" SELF-DRILLING PANEL FASTENERS (NOTE REFER TO SHIPPING LIST FOR THE CORRECT SIZE AND COLOR OF FASTENERS TO BE USED ON THIS PARTICULAR JOB.) USE A SCREW GUN OR A VARIABLE SPEED DRILL WITH A 5/16" (8MM) SOCKET TO INSTALL PANEL FASTENERS THROUGH THE PREDRILLED PANEL HOLES. WHEN INSTALLING THE PROPER FASTENERS (PLAIN OR COLORED), DO NOT OVERTIGHTEN OR SPIN OUT THE NEOPRENE WASHER. THE WASHER ONLY, SHOULD BE IN FIRM CONTACT WITH THE PANEL. OVERTIGHTENING MAY CAUSE A "CANNING EFFECT" ON THE WALL PANELS, CAUSING AN UNDESIRABLE APPEARANCE.

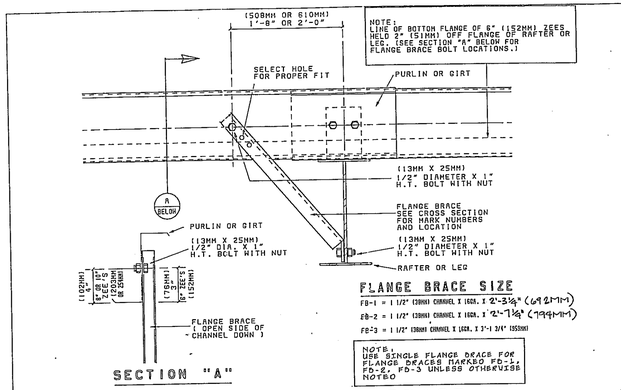
3. ATTACHMENT OF PANEL SIDELAPS IS ACCOMPLISHED WITH #1/4 X 3/4" (19MM) "TEK 1" SELF-DRILLING STITCH SCREWS. USE A SCREW GUN OR A VARIABLE SPEED DRILL WITH A 5/16" (8MM) SOCKET TO INSTALL STITCH SCREWS THROUGH THE PREDRILLED HOLE IN THE OVERLAPPING RIB (TRAILING EDGE). USE THE PROPER SCREW (PLAIN OR COLORED) FOR INSTALLATION. THE SCREW MUST BE ALLOWED TO DRILL ITS OWN HOLE THROUGH THE UNDERLAPPING RIB. (DO NOT FORCE SCREW). FORCING THE SCREW MAY CAUSE THE UNDERLAP RIB TO BE PUSHED DOWN, RESULTING IN OFFSET HOLES AND MISALIGNMENT, WHICH PREVENTS POSITIVE SIDELAP SEALING.

4. SWEEP OR WIPE DRILL TAILINGS FROM PANELS, BARE STEEL DRILL TAILINGS CAN CAUSE RUST OVERNIGHT, PARTICULARLY ON COLORED PANELS.

REVISIONS

Carco Building Systems Spokane Washington

Job Name : NANAIMO TRANSFER STATION	
Builder : REGIONAL MANAGEMENT	
Drawn by : D.B.O.	Job Number: 91025
Date : 3-5-91	Drw.17 Of 23 Sht.S-14
Checked by:	F.E. Date :



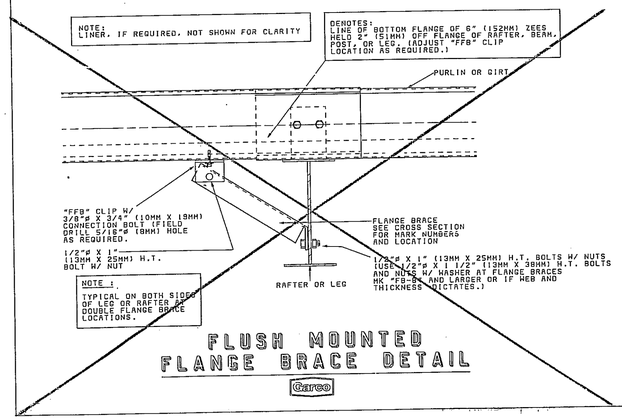
SINGLE FLANGE BRACE

*DENOTES:
FLANGE BRACE ONE SIDE OF RAFTER OF LEG ONLY AT INTERIOR FRAMES ONLY
OR
FLANGE BRACE FAR SIDE OF ENDFRAME LEG/POST OR RAFTER/BEAM ONLY

Garco

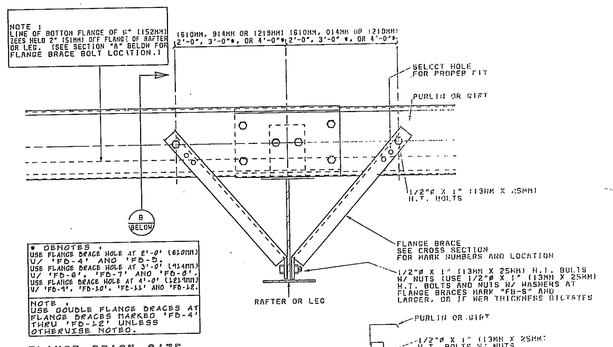
FLANGE BRACE SIZE

FB-1 = 1 1/2" (38MM) CHANNEL X 16GA. X 2'-3 1/8" (695MM)
FB-2 = 1 1/2" (38MM) CHANNEL X 16GA. X 2'-7 1/8" (799MM)
FB-3 = 1 1/2" (38MM) CHANNEL X 16GA. X 3'-1 3/4" (959MM)



FLUSH MOUNTED FLANGE BRACE DETAIL

Garco



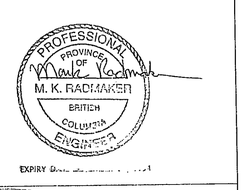
DOUBLE FLANGE BRACE

**DENOTES:
FLANGE BRACE BOTH SIDES OF RAFTER/BEAM OR LEG/POST AT INTERIOR FRAMES ONLY

Garco

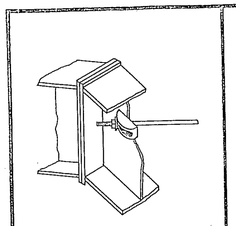
FLANGE BRACE SIZE

FB-4 = 1 5/8" (41MM) CHANNEL X 14GA. X 3'-5 3/4" (1060MM)
FB-5 = 1 5/8" (41MM) CHANNEL X 14GA. X 3'-8 15/16" (1167MM)
FB-6 = 2 1/8" (54MM) CHANNEL X 12GA. X 4'-9 5/16" (1456MM)
FB-7 = 2 1/8" (54MM) CHANNEL X 12GA. X 5'-2 15/16" (1589MM)
FB-8 = 2 1/2" (64MM) CHANNEL X 1/8" (3MM) X 5'-8 5/8" (1743MM)
FB-9 = 2 1/2" (64MM) CHANNEL X 1/8" (3MM) X 6'-9 3/8" (2067MM)
FB-10 = 2 1/2" (64MM) CHANNEL X 1/8" (3MM) X 7'-3 1/8" (2213MM)
FB-11 = 3 5/8" (92MM) CHANNEL X 3/16" (5MM) X 7'-8 15/16" (2361MM)
FB-12 = 3 5/8" (92MM) CHANNEL X 3/16" (5MM) X 8'-2 7/8" (2511MM)

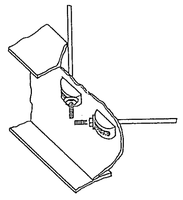


EXPIRY Dec. 31, 1991

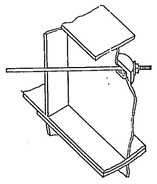
REVISIONS	Garco Building Systems Spokane Washington
	Job Name : NANAIMO TRANSFER STATION
	Builder : COLONY MANAGEMENT
	Drawn By : D.B.Q. Job Number : 91025
	Date : 3.5.91 Drw. 18 Of 23 Sht. S-16
	Checked By: P.E. Date :



1 ROOF CONNECTION AT RIDGE

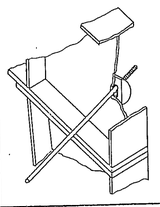


2 ROOF INTERMEDIATE CONNECTION

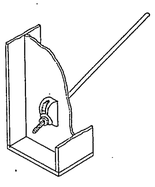


3 ROOF CONNECTION AT EAVE

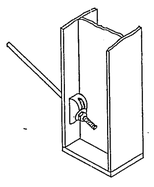
NOTE: ROD BRACES ARE NECESSARY TO INSURE THE STRENGTH OF THE BUILDING . UNDER NO CIRCUMSTANCES SHOULD THEY BE OMITTED . CONSULT THE ROOF AND SIDEWALL FRAMING PLANS FOR LOCATIONS.



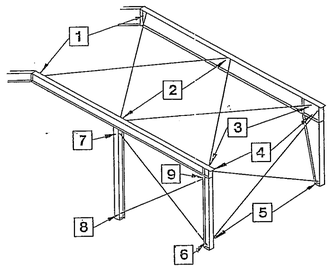
4 SIDEWALL CONNECTION AT HAUNCH



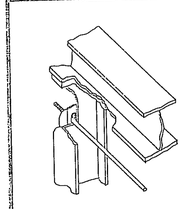
5 SIDEWALL CONNECTION AT LEG OR CORNER COLUMN



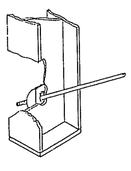
6 ENDWALL CONNECTION AT CORNER COLUMN



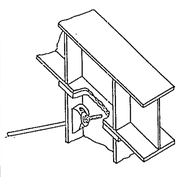
HALF OF A TYPICAL ROD BRACE LAYOUT



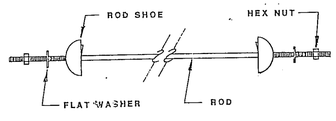
7 ENDWALL CONNECTION AT TOP OF INTERMEDIATE COLUMN



8 ENDWALL CONNECTION AT COLUMN BOTTOM



9 ENDWALL CONNECTION AT CORNER COLUMN TOP



COMPONENTS OF A ROD BRACE

JOB NUMBER

Garco Building Systems

SPOKANE, WA.

TYPE

ROD BRACE

DATE 6/16/82

DRAWN BY DRJ

CHECKED BY RLK

REVISIONS

APPROVED for Fabrication

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. K. RADMAKER

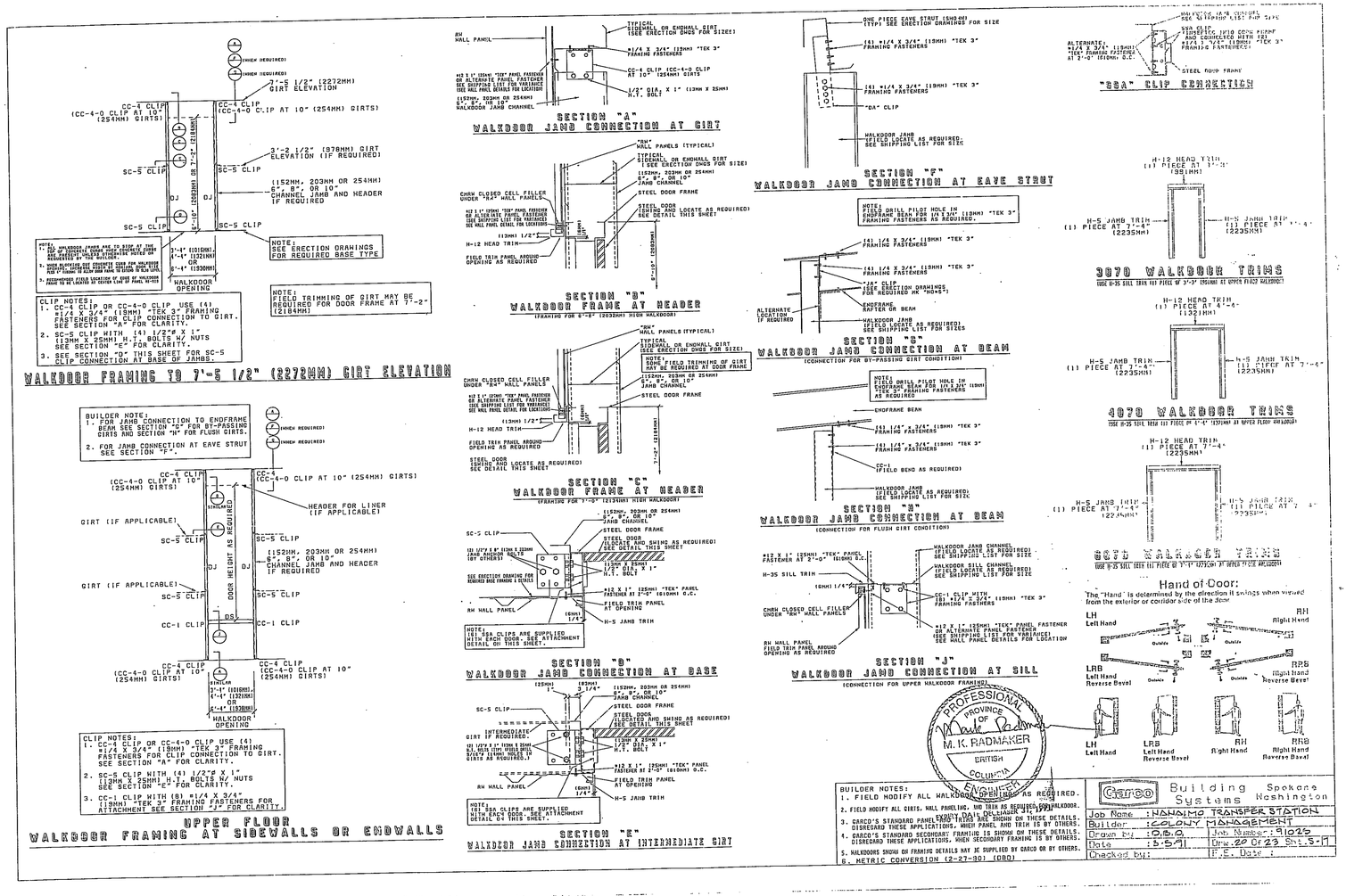
EXPIRY DATE DECEMBER 31, 1991

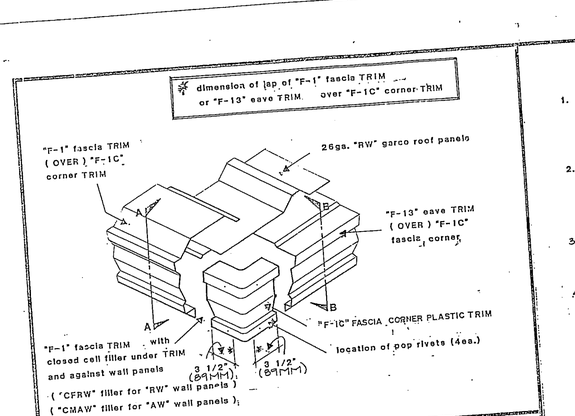
PAGE NUMBER STD-1018A

REVISIONS

Garco Building Systems Spokane Washington

Job Name	:NANAIMO TRANSFER STATION
Builder	:COLONY MANAGEMENT
Drawn by	:D.B.D. Job Number: 91025
Date	:3.5.91 Drw.19 Of 23 Sht.S-16
Checked by:	F.E. Date :

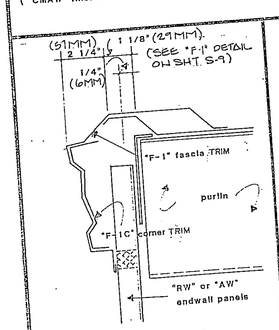

WALKDOOR FRAMING TO 7'-5 1/2" (2272MM) GIRT ELEVATION
CC-4 CLIP (CC-4-0 CLIP AT 10" (254MM) GIRTS)
7'-5 1/2" (2272MM) GIRT ELEVATION
3'-2 1/2" (978MM) GIRT ELEVATION (IF REQUIRED)
(152MM, 203MM OR 254MM) 8", 9", OR 10" CHANNEL JAMB AND HEADER IF REQUIRED
SC-5 CLIP
NOTE: SEE ERECTION DRAWINGS FOR REQUIRED BASE TYPE
WALKDOOR OPENING
CLIP NOTES:
1. CC-4 CLIP OR CC-4-0 CLIP USE (4) #12 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS FOR CLIP CONNECTION TO GIRT. SEE SECTION "A" FOR CLARITY.
2. SC-5 CLIP WITH (4) 1/2"ø X 1" (13MM X 25MM) H.T. BOLTS W/ NUTS SEE SECTION "E" FOR CLARITY.
3. SEE SECTION "D" THIS SHEET FOR SC-5 CLIP CONNECTION AT BASE OF JAMBS.
NOTE: FIELD TRIMMING OF GIRT MAY BE REQUIRED FOR DOOR FRAME AT 7'-2" (2184MM)
SECTION "A" WALKDOOR JAMB CONNECTION AT GIRT
TYPICAL SIDEWALL OR ENDWALL GIRT (SEE ERECTION DWGS FOR SIZES)
#12 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS
CC-4 CLIP (CC-4-0 CLIP AT 10" (254MM) GIRTS)
1/2" DIA. X 1" (13MM X 25MM) H.T. BOLT
(152MM, 203MM OR 254MM) 8", 9", OR 10" WALKDOOR JAMB CHANNEL
SECTION "B" WALKDOOR FRAME AT HEADER
(FRAMING FOR 6'-8" (2032MM) HIGH WALKDOOR)
"RW" WALL PANELS (TYPICAL)
TYPICAL SIDEWALL OR ENDWALL GIRT (SEE ERECTION DWGS FOR SIZE)
(152MM, 203MM OR 254MM) 8", 9", OR 10" JAMB CHANNEL
STEEL DOOR FRAME
CHRW CLOSED CELL FILLER UNDER "RW" WALL PANELS
STEEL DOOR (SHIPPED AND LOCATE AS REQUIRED) SEE DETAIL THIS SHEET
(13MM) 1/2"
H-12 HEAD TRIM
FIELD TRIM PANEL AROUND OPENING AS REQUIRED
SECTION "C" WALKDOOR FRAME AT HEADER
(FRAMING FOR 7'-0" (2134MM) HIGH WALKDOOR)
NOTE: SOME FIELD TRIMMING OF GIRT MAY BE REQUIRED AT DOOR FRAME
STEEL DOOR (SHIPPED AND LOCATE AS REQUIRED) SEE DETAIL THIS SHEET
SECTION "D" WALKDOOR JAMB CONNECTION AT BASE
SC-5 CLIP
STEEL DOOR FRAME
STEEL DOOR (SHIPPED AND LOCATE AS REQUIRED) SEE DETAIL THIS SHEET
#12 X 1" (25MM) "TEK" PANEL FASTENER AT 2'-0" (610MM) O.C.
1/2" DIA. X 1" H.T. BOLT
FIELD TRIM PANEL AT OPENING
RH WALL PANEL
H-S JAMB TRIM
NOTE: SEA CLIPS ARE SUPPLIED WITH EACH DOOR. SEE ATTACHMENT DETAIL ON THIS SHEET.
SECTION "E" WALKDOOR JAMB CONNECTION AT INTERMEDIATE GIRT
ONE PIECE EAVE STRUT (SHD-60) (TYP.) SEE ERECTION DRAWINGS FOR SIZE
(4) #12 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS
"DA" CLIP
WALKDOOR JAMB (FIELD LOCATE AS REQUIRED) SEE SHIPPING LIST FOR SIZE
SECTION "F" WALKDOOR JAMB CONNECTION AT EAVE STRUT
NOTE: FIELD DRILL PILOT HOLE IN ENDFRAME BEAM FOR 1/4 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS AS REQUIRED.
(4) #12 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS
"DA" CLIP (SEE ERECTION DRAWINGS FOR REQUIRED MK "MD+S")
ENDFRAME RAFTER OR BEAM
ALTERNATE LOCATION IF REQUIRED
WALKDOOR JAMB (FIELD LOCATE AS REQUIRED) SEE SHIPPING LIST FOR SIZES
SECTION "G" WALKDOOR JAMB CONNECTION AT BEAM
(CONNECTION FOR BY-PASSING GIRT CONDITION)
NOTE: FIELD DRILL PILOT HOLE IN ENDFRAME BEAM FOR 1/4 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS AS REQUIRED
ENDFRAME BEAM
(4) #12 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS
CC-1 (FIELD BEND AS REQUIRED)
WALKDOOR JAMB (FIELD LOCATE AS REQUIRED) SEE SHIPPING LIST FOR SIZE
SECTION "H" WALKDOOR JAMB CONNECTION AT BEAM
(CONNECTION FOR FLUSH GIRT CONDITION)
#12 X 1" (25MM) "TEK" PANEL FASTENER AT 2'-0" (610MM) O.C.
H-3S SILL TRIM
(6MM) 1/4"
CHRW CLOSED CELL FILLER UNDER "RW" WALL PANELS
RH WALL PANEL FIELD TRIM PANEL AROUND OPENING AS REQUIRED
WALKDOOR JAMB CHANNEL (FIELD LOCATE AS REQUIRED) SEE SHIPPING LIST FOR SIZE
WALKDOOR SILL CHANNEL (FIELD LOCATE AS REQUIRED) SEE SHIPPING LIST FOR SIZE
CC-1 CLIP WITH (8) #12 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS
#12 X 1" (25MM) "TEK" PANEL FASTENER OR ALTERNATE PANEL FASTENER (SEE SHIPPING LIST FOR VARIANCE) SEE WALL PANEL DETAILS FOR LOCATION
SECTION "J" WALKDOOR JAMB CONNECTION AT SILL
(CONNECTION FOR UPPER WALKDOOR FRAMING)
"SSA" CLIP CONNECTION
STEEL ROOF FRAME
H-12 HEAD TRIM (1) PIECE AT 7'-4" (2235MM)
H-S JAMB TRIM (1) PIECE AT 7'-4" (2235MM)
3070 WALKDOOR TRIMS
USE H-3S SILL TRIM (1) PIECE AT 3'-0" (914MM) AT UPPER FLOOR WALKDOOR
H-12 HEAD TRIM (1) PIECE AT 4'-0" (1321MM)
4070 WALKDOOR TRIMS
USE H-3S SILL TRIM (1) PIECE AT 4'-0" (1321MM) AT UPPER FLOOR WALKDOOR
9070 WALKDOOR TRIMS
USE H-3S SILL TRIM (1) PIECE AT 9'-0" (2235MM) AT UPPER FLOOR WALKDOOR
Hand of Door:
The "Hand" is determined by the direction it swings when viewed from the exterior or corridor side of the door.
LH Left Hand
RH Right Hand
LRB Left Hand Reverse Bevel
RRB Right Hand Reverse Bevel
UPPER FLOOR WALKDOOR FRAMING AT SIDEWALLS OR ENDWALLS
BUILDER NOTE: 1. FOR JAMB CONNECTION TO ENDFRAME BEAM SEE SECTION "G" FOR BY-PASSING GIRTS AND SECTION "H" FOR FLUSH GIRTS. 2. FOR JAMB CONNECTION AT EAVE STRUT SEE SECTION "F".
CC-4 CLIP (CC-4-0 CLIP AT 10" (254MM) GIRTS)
HEADER FOR LINER (IF APPLICABLE)
GIRT (IF APPLICABLE)
SC-5 CLIP
(152MM, 203MM OR 254MM) 8", 9", OR 10" CHANNEL JAMB AND HEADER IF REQUIRED
DOOR HEIGHT AS REQUIRED
CC-1 CLIP
HALKDOOR OPENING
CLIP NOTES:
1. CC-4 CLIP OR CC-4-0 CLIP USE (4) #12 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS FOR CLIP CONNECTION TO GIRT. SEE SECTION "A" FOR CLARITY.
2. SC-5 CLIP WITH (4) 1/2"ø X 1" (13MM X 25MM) H.T. BOLTS W/ NUTS SEE SECTION "E" FOR CLARITY.
3. CC-1 CLIP WITH (8) #14 X 3/4" (19MM) "TEK 3" FRAMING FASTENERS FOR ATTACHMENT. SEE SECTION "J" FOR CLARITY.
BUILDER NOTES:
1. FIELD MODIFY ALL WALKDOOR OPENINGS AS REQUIRED.
2. FIELD MODIFY ALL GIRTS, WALL PANELING, AND TRIM AS REQUIRED FOR WALKDOOR.
3. GARCO'S STANDARD PANEL FASTENING SCHEDULE AND DETAILS ARE SHOWN ON THESE DETAILS. DISREGARD THESE APPLICATIONS, WHEN PANEL AND TRIM IS BY OTHERS.
4. GARCO'S STANDARD SECONDARY FRAMING IS SHOWN ON THESE DETAILS. DISREGARD THESE APPLICATIONS, WHEN SECONDARY FRAMING IS BY OTHERS.
5. WALKDOORS SHOWN ON FRAMING DETAILS MAY BE SUPPLIED BY GARCO OR BY OTHERS.
6. METRIC CONVERSION (2-27-90) (DRD)
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M.K. RADMAKER
Garco Building Systems Spokane Washington
Job Name: NANAIMO TRANSFER STATION
Builder: COLONY MANAGEMENT
Drawn by: D.B.D. Job Number: 9025
Date: 3.5.91 Drw. 20 Of 23 Sht. 5-7
Checked by: P.E. Date:



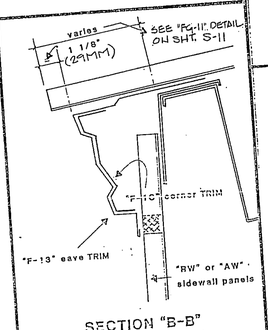
"F-1C" FASCIA CORNER TRIM INSTALLATION

1. Use pop-rivets (2ea.) to fasten "F-1C" corner TRIM to the INSIDE of an end of a F-13 eave TRIM (This is to be done BEFORE the F-13 is installed on the building.) See the detail at left for required overlap dimension.
2. Install the F-13 eave TRIM (with F-1C corner TRIM attached) so that the F-1C corner TRIM is tight against the H-2 (for "RW" wall panels) or C-2 (for "AW" wall panels) corner TRIM.
3. SEE DETAIL ON SHT S-11 for correct roof sheet overhang AND "F-13" hold-out dimensions for that roof slope for of your building.
4. After the roof panels have been attached per detail ON SHT S-13 & S-9 AND S-11 align "F-1" fascia TRIM to the EAVE edge of the roof sheet with the "F-1C" corner TRIM fitting INSIDE the "F-1" fascia TRIM Use the "F-1C" corner TRIM to align the face of the "F-1" fascia TRIM (PER DETAIL ON S-9 Use pop rivets (2ea.) to fasten the "F-1" FASCIA TRIM to the "F-1C" corner TRIM.
5. The remainder of the F-1 fascia. TRIM may now be installed (SEE DETAIL ON SHT S-9).

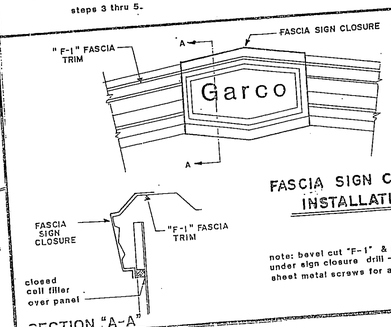
Note: Steps 1 & 2 should be done for each corner of the building before proceeding with steps 3 thru 5.



SECTION "A-A"



SECTION "B-B"



SECTION "A-A"

FASCIA SIGN CLOSURE INSTALLATION

note: bevel cut "F-1" & butt joint at peak under sign closure drill - use pop rivets or sheet metal screws for attachment to flashing

JOB NUMBER

STANDARD DETAILS

Garco Building Systems

SPOKANE, WA.

TYPE INSTALLATION INSTRUCTIONS FOR "F-1C" FASCIA CORNER TRIM FASCIA SIGN CLOSURE

DATE 2-2-81

DRAWN BY G. FARRIS

CHECKED BY R.L.K.

REVISIONS

REV 12-27-82 TB

APPROVED 2-17-81

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M. K. RADMAKER

EXPIRY DATE DECEMBER 31, 1982

PAGE NUMBER STD-1019A

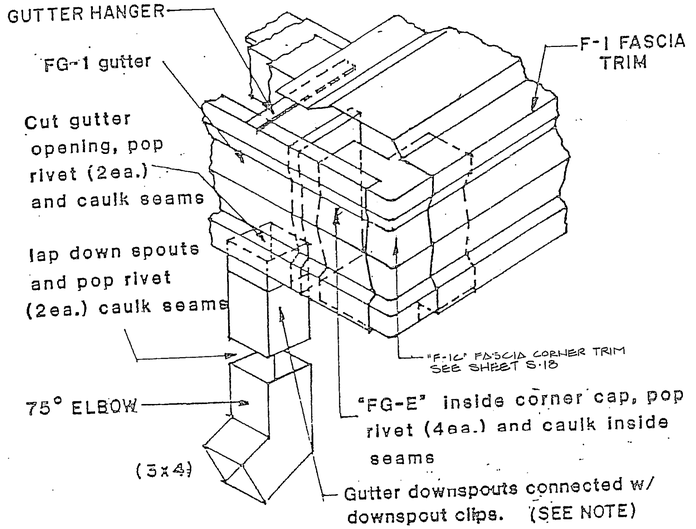
REVISIONS

Garco Building Systems Spokane Washington

Job Name :	HANAIMO TRANSFER STATION
Builder :	COLONY MANAGEMENT
Drawn by :	D.B.O.
Date :	3-5-91
Checked by:	
Job Number :	91025
Drw. 21 Of 23 Sht.	S-16
F.E. Date :	

RTAC-3 DOWNSPOUT CLIP FOR 3x4 DOWNSPOUTS

ATTACH TO WALL PANEL AND DOWNSPOUT W/ (3) RIVETS



GUTTER CORNER DETAIL

Garco. Building Systems
SPOKANE, WASHINGTON

FG-E
GUTTER END CAP

DATE
DRAWN BY
CHECKED BY
REVISIONS

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. K. RADMAKER

JOB NUMBER

PAGE NUMBER STD-1020

REVISIONS

Garco Building Systems Spokane Washington

Job Name	:NANAIMO TRANSFER STATION		
Builder	:COLONY MANAGEMENT		
Drawn by	:D.B.O.	Job Number: 91025	
Date	:3-5-91	Drw.27.0r 23 Sht.S-19	
Checked by:		F.E. Date :	

HOW TO USE "TEK" SELF-DRILLING FASTENERS

1. COMMON TYPES AND USAGES OF SELF-DRILLING FASTENERS USED BY GARCO BUILDING SYSTEMS.

A. #12 X 1" (25MM) "TEK" PANEL FASTENER W/ 5/8" (16MM) SEALING WASHER

USE: PANEL AND/OR TRIM TO FRAMING WITH A DRILLING CAPACITY UP TO .187 (3/16") (5MM) METAL THICKNESS.

5/16" (8MM) HEX HEAD

B. 1/4 X 3/4" (19MM) "TEK 1" STITCH SCREW W/ 5/8" (16MM) SEALING WASHER

USE: PANEL TO PANEL OR TRIM TO PANEL WITH A DRILLING CAPACITY UP TO .095 (1/16"+) (2MM) METAL THICKNESS

5/16" (8MM) HEX HEAD

C. #12 X 1 1/4" (32MM) "TEK" PANEL FASTENER W/ 5/8" (16MM) SEALING WASHER

USE: PANEL TO FRAMING WHEN USING UP TO 4" (102MM) OF INSULATION W/ A DRILLING CAPACITY UP TO .187 (3/16") (5MM) METAL THICKNESS.

5/16" (8MM) HEX HEAD

D. #12 X 1 1/2" (38MM) "TEK" PANEL FASTENER W/ 5/8" (16MM) SEALING WASHER

USE: PANEL TO FRAMING WHEN USING 5" (127MM) TO 6" (152MM) OF INSULATION OR THROUGH (1) LAYER OF 5/8" (16MM) THICK SHEETROCK (FIREWALL) W/ A DRILLING CAPACITY UP TO .187 (3/16") (5MM) METAL THICKNESS.

5/16" (8MM) HEX HEAD

E. #12 X 1" (25MM) "TEK" FRAMING FASTENER WITHOUT SEALER

USE: SLIDE DOOR FRAMING WITH A DRILLING CAPACITY UP TO .187 (3/16") (5MM) METAL THICKNESS

5/16" (8MM) HEX HEAD

F. 1/4 X 3/4" (19MM) "TEK 3" FRAMING FASTENER WITHOUT SEALER

USE: ATTACHMENT OF CLIPS, ANGLES, AND OTHER FRAMING WITH A DRILLING CAPACITY UP TO .220 (3/16"+) (6MM) METAL THICKNESS

3/8" (10MM) HEX HEAD

G. #14 X 1" (25MM) "TEK" METAL/WOOD FASTENER W/ 5/8" (16MM) SEALING WASHER

USE: PANEL TO WOOD FRAMING WITH A DRILLING CAPACITY UP TO LENGTH OF SCREW.

5/16" (8MM) HEX HEAD

H. #12 X 1 7/8" (48MM) OR 2 3/8" (60MM) "TEK" PANEL FASTENER W/ 5/8" (16MM) SEALING WASHER.

USE: PANEL TO FRAMING WHEN USING A SPACER BLOCK WITH BLANKET INSULATION WITH A DRILLING CAPACITY UP TO .200 (3/16") (5MM) METAL THICKNESS.

5/16" (8MM) HEX HEAD

J. 1/4 X 1 1/4" (32MM) "TEK" CLIP FASTENER WITHOUT SEALER

USE: STANDING SEAM PANEL CLIP TO FRAMING WITH A DRILLING CAPACITY UP TO .220 (3/16"+) (6MM) METAL THICKNESS

3/8" (10MM) HEX HEAD

K. 1/4 X 1 1/4" (32MM) "TEK" PANEL FASTENER W/ 5/8" (16MM) SEALING WASHER

USE: STANDING SEAM PANEL TO FRAMING WITH A DRILLING CAPACITY UP TO .220 (3/16"+) (6MM) METAL THICKNESS.

3/8" (10MM) HEX HEAD

L. #17 X 1 1/2" (38MM) "AB" PANEL FASTENER W/ 5/8" (16MM) SEALING WASHER

USE: GWS STANDING SEAM ROOF FOR ENDORA AND CINCH STRAP ATTACHMENTS INTO BACK-UP PLATE.

3/8" (10MM) HEX HEAD

M. #12 X 1 1/4" (32MM) "TEK 5" PANEL FASTENER W/ 5/8" (16MM) SEALING WASHER

USE: PANEL TO FRAMING OVER 3/16" (5MM) THICKNESS W/ A DRILL CAPACITY UP TO .500 (1/2") (13MM) METAL THICKNESS.

5/16" (8MM) HEX HEAD

NOTE :
SCREWS WITH SEALING WASHERS MAY BE FURNISHED WITH INTREGAL HEAD AND WASHER.

NOTE:
REFER TO SHIPPING LIST FOR PROPER FASTENER REQUIREMENTS

2. POWER DRIVER INFORMATION

A. TO OBTAIN MAXIMUM PERFORMANCE FROM THE "TEKS" SELF-DRILLING FASTENER, DRIVERS THAT HAVE BEEN DEVELOPED AND APPROVED FOR THEM SHOULD BE USED. THESE DRIVERS MUST TURN AT 1900 TO 2500 RPM AND BE RATED AT 4 AMPS OR HIGHER. DRIVERS MUST BE EQUIPPED WITH A POSITIVE CLUTCH AND A DEPTH LOCATING NOSE PIECE.

NOTE: DO NOT USE AN IMPACT TOOL OR NUTRUNNER.

3. INSTRUCTIONS FOR TROUBLE-FREE DRILLING

A. PRE-DRILLING OF PANELS (STACK UP TO 10 SHEETS) WHILE ON THE GROUND, WILL PROVIDE BETTER ALIGNMENT OF FASTENERS AND SCREWS. REFER TO FASTENER LOCATION DETAILS ON THE ROOF AND WALL INSTRUCTIONS.

B. BE SURE THAT THE DEPTH LOCATOR ON THE POWER DRIVER IS USED AND PROPERLY ADJUSTED.

C. REMEMBER THE DRILL POINT MUST BE LONG ENOUGH TO DRILL THE HOLE BEFORE THE THREADING ACTION BEGINS. "TEK" SCREWS CANNOT DRILL AND FORM THREADS AT THE SAME TIME. THE HOLE MUST BE COMPLETED BEFORE THE TAPPING ACTION BEGINS. A PILOT HOLE OR "TEK 5" FASTENER WILL BE REQUIRED IN MATERIAL THICKNESS GREATER THAN INDICATED AT LEFT. BE SURE TO USE THE CORRECT FASTENER FOR THE CORRECT ATTACHMENT.

D. WHEN DRILLING SCREWS INTO FRAMING, DO NOT PUSH TOO HARD WITH THE POWER DRIVER. THIS CAUSES EXCESS FRICTION AND CAN BURN OUT THE DRILL POINT. CORRECT PRESSURE WILL ALLOW SCREWS TO DRILL AND TAP WITHOUT BINDING. SEE FIGURE #1 FOR PROPERLY SEATED FASTENERS.

E. WHERE PURLINS OR GIRTS ARE OVER-LAPPED, THEY MAY NOT NEST PROPERLY AND MAY BE TOO FAR APART, MAKING THE DRILL POINT TOO SHORT. IT MAY BE NECESSARY TO DRILL A PILOT HOLE IN THE TOP PURLIN, THEN RUN IN "TEK" SCREW TO COMPLETE FASTENING.

F. WHEN DRILLING THROUGH INSULATION, PRESS SCREW THROUGH UNTIL CONTACT IS MADE WITH STEEL AND STARTS TO DRILL. APPLY MORE PRESSURE AS DRILL POINT PENETRATES STEEL.

PROPERLY SEATED FASTENERS

OVERDRIVEN | CORRECTLY DRIVEN | UNDERDRIVEN

FIGURE #1

EXPIRY DATE December 31, 1991

REVISIONS
FASTENER STANDARD 14-DEC-88
⚠ REVISED 20-MAR-89
⚠ METRIC CONVERSION (2-27-90) (DBD)

Garco Building Systems Spokane Washington

Job Name : NANAIMO TRANSFER STATION	
Builder : COLONY MANAGEMENT	
Drawn by : D.B.D.	Job Number: 91025
Date : 3-5-91	Drw. 23 Of 23 Sht. 5-20
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