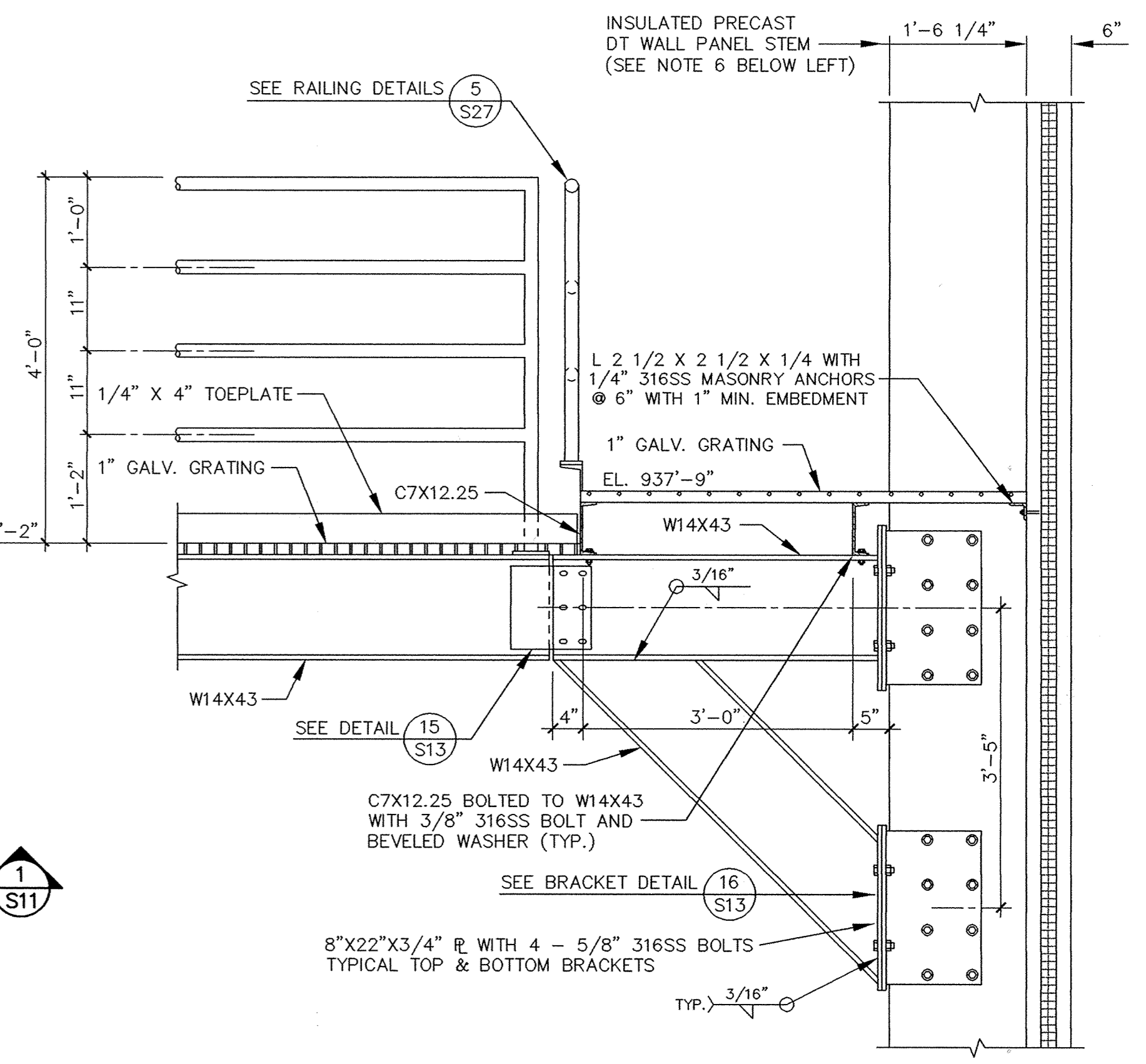
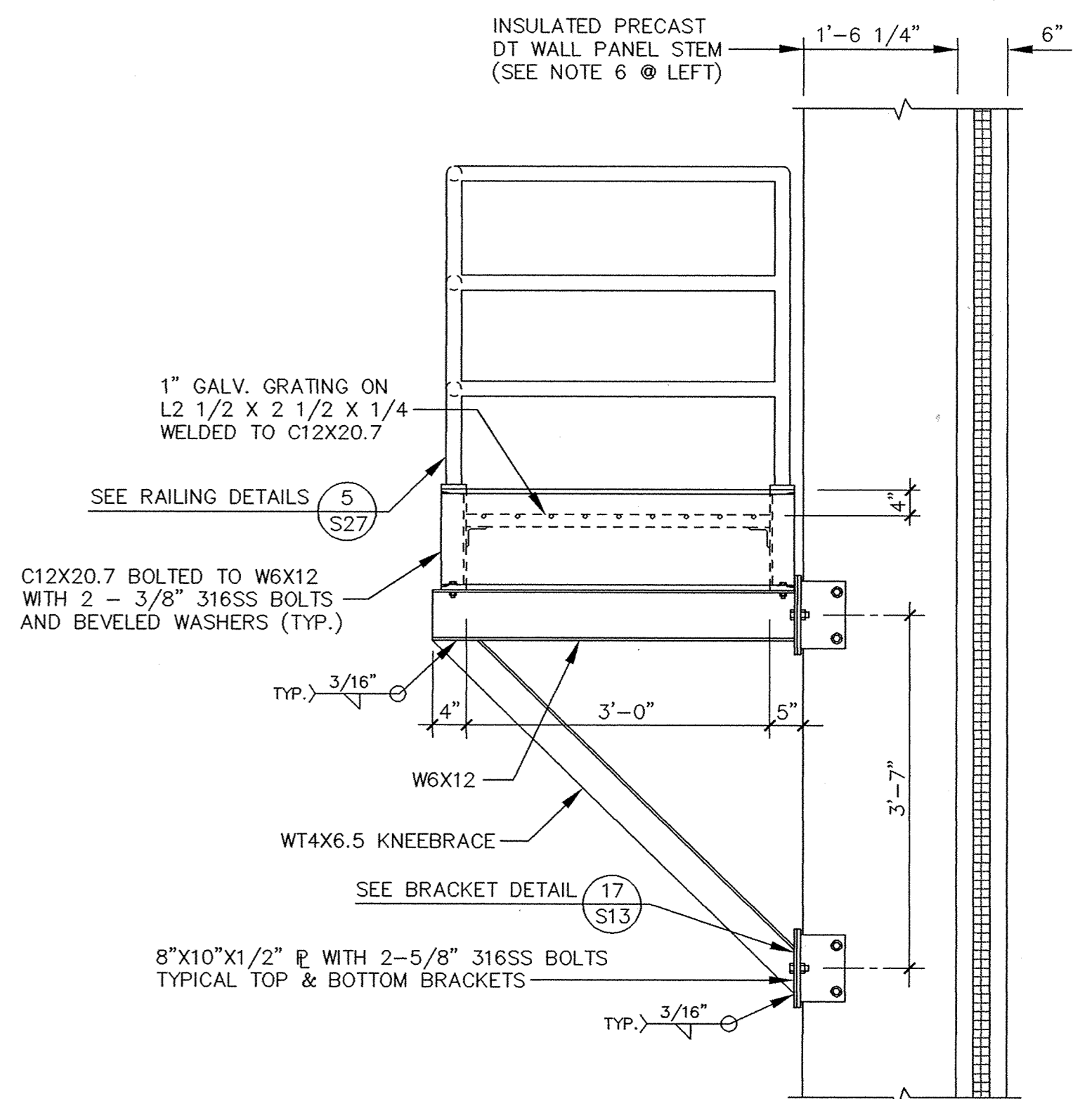


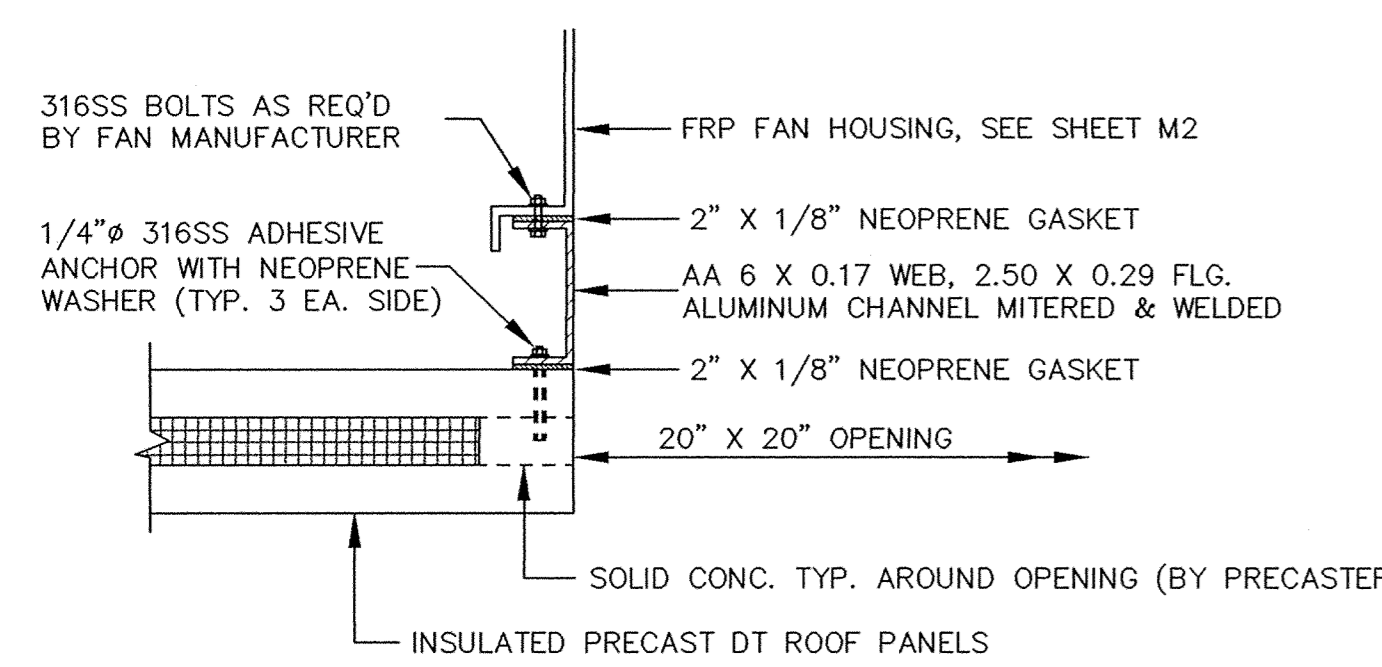
TRICKLING FILTER ROOF AND WALKWAY PLAN
Scale: 1/4" = 1'-0"



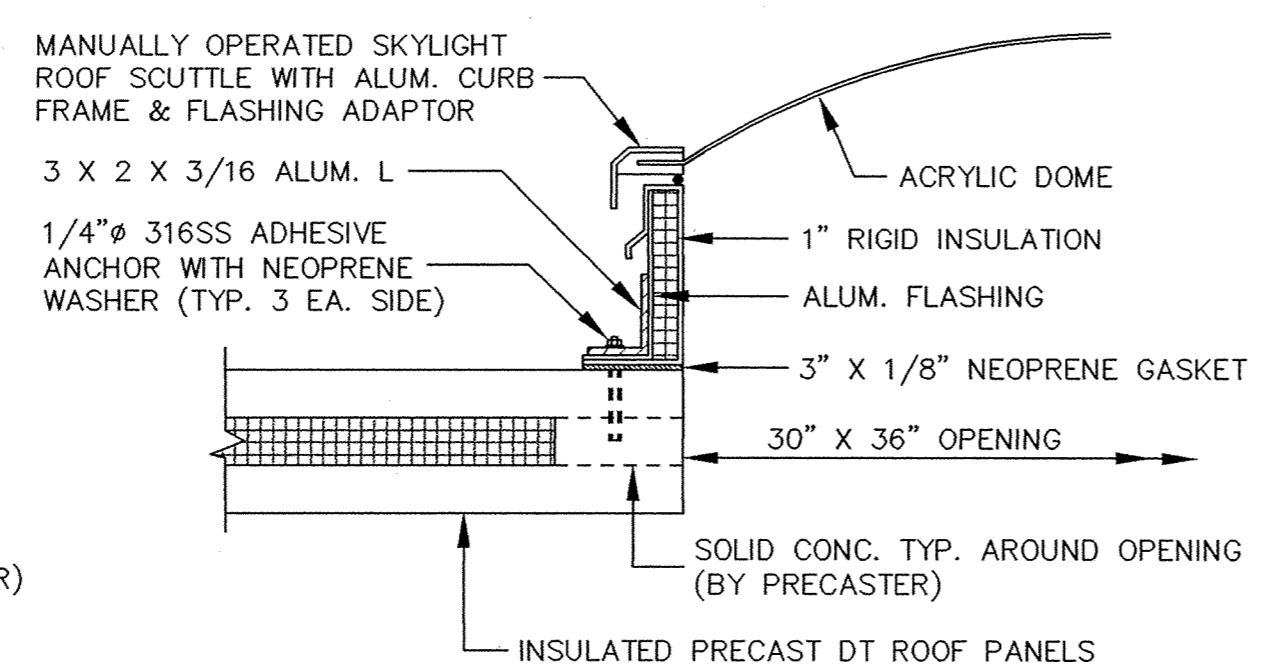
WALKWAY LANDING SUPPORT SECTION 3
Scale: 3/4" = 1'-0"



LANDING SUPPORT SECTION 4
Scale: 3/4" = 1'-0"



TRICKLING FILTER SUPPLY FAN DETAIL 1
Scale: 1 1/2" = 1'-0"



TRICKLING FILTER SKYLIGHT ROOF SCUTTLE DETAIL 2
Scale: 1 1/2" = 1'-0"

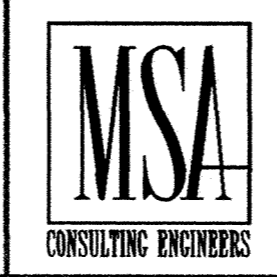
WALKWAY AND LANDING NOTES

1. DETAILED FABRICATION DRAWINGS CERTIFIED BY A MINNESOTA REGISTERED STRUCTURAL ENGINEER SHALL BE SUBMITTED TO THE ENGINEER FOR PRIOR APPROVAL.
2. ALL STAIR & WALKWAY MEMBERS & BRACKETS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 FOLLOWING FABRICATION. ALL FIELD CUTS & WELDS SHALL BE BRUSHED TO BARE METAL AND COLD GALVANIZED.
3. ALL BOLTS & CONNECTING HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.
4. ALL GRATING SHALL BE 1" GALV. STEEL WITH BRG. BARS SPACED TO SUPPORT A SUPERIMPOSED UNIFORM LOAD OF 150 P.S.F. AND MAX. DEFLECTION OF 1/4" @ 100 P.S.F.
5. GRATING SHALL BE FASTENED BY APPROVED 316SS BOLTED J-CLIPS OR GALV. WELDED PLATE FASTENERS PER MANUFACTURER.
6. ALL PRECAST CONCRETE DIMENSIONS SHALL BE VERIFIED PRIOR TO FABRICATION.

KEY NOTES

- A 316 STAINLESS STEEL EMBEDDED WELD & CONNECTION PLATES FOR RING TENSION AT DT WALL PANEL JOINT DESIGNED & PROVIDED BY PRECASTER.
- B ADDITIONAL DIAGONAL BARS SHALL BE CAST IN DT FLANGE AT PENETRATION CORNERS, TYP. ALL PENETRATIONS.
- C REMOVABLE DT ROOF PANELS. ALL CONNECTIONS BETWEEN ROOF DT AND WALL DT PANELS SHALL BE DESIGNED & PROVIDED BY THE PRECASTER. ALL CONNECTION HARDWARE SHALL BE 316 STAINLESS STEEL. THE PRECASTER SHALL ALSO DESIGN & PROVIDE 316 STAINLESS STEEL HANDLING HOOKS FOR ALL REMOVABLE DT ROOF PANELS.
- D FIXED DT ROOF PANELS. ALL CONNECTIONS BETWEEN ROOF DT AND WALL DT PANELS SHALL BE DESIGNED & PROVIDED BY PRECASTER. ALL CONNECTION HARDWARE SHALL BE 316 STAINLESS STEEL.
- E 20" X 20" OPENING FOR FAN (TO BE VERIFIED) FAN WT. = 315 LB. (2 THUS)
- F 30" X 36" OPENING FOR SKYLIGHT ROOF SCUTTLE (TO BE VERIFIED) SKYLIGHT WT. = 100 LB. (5 THUS)
- G 1'-4"W X 9 1/2"H OPENING IN DT WALL PANEL FLANGE FOR OVERFLOW SCUPPER AT INVERT 949'-9" (4 THUS)
- H SEAL DT ROOF PANEL JOINT WITH FOAM BACKER ROD AND SEALANT TOP & BOTTOM (TYP.)
- I PEDESTAL BASE FOR PORTABLE DAVIT CRANE (1500 LB. LOAD RATING @ 46" ARM, 900 LB. LOAD RATING @ 70" ARM). ANCHOR PER MANUFACTURER.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
David J. Campbell
DATE 11/19/95 REG. NO. 22222



1326 ENERGY PARK DRIVE
ST. PAUL, MINNESOTA 55108
(612) 644-4389
9800 SHELARD PARKWAY
MINNEAPOLIS, MINNESOTA 55441
(612) 546-0432

REVISIONS	DATE	DESCRIPTION	DESIGNED D.L.C. GG	CHECKED L.J.L.	DRAWN G.G.

GRAPHIC SCALE
0 HORIZ. 4
0 VERT. 4

CITY OF ELK RIVER
WASTEWATER TREATMENT FACILITY UPGRADE
TRICKLING FILTER
ROOF & WALKWAY PLAN & DETAILS
DATE OCT. 1995 SHEET 30 OF 112 SHEETS PROJECT NO. 230-151

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