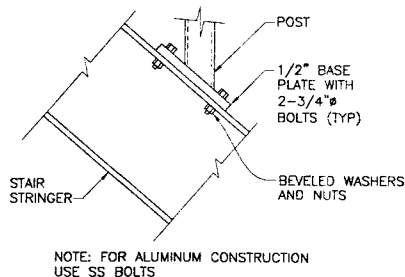


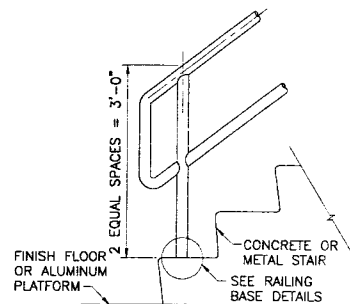
ALUMINUM TOE PLATE

NTS



TOP MOUNTED RAILING

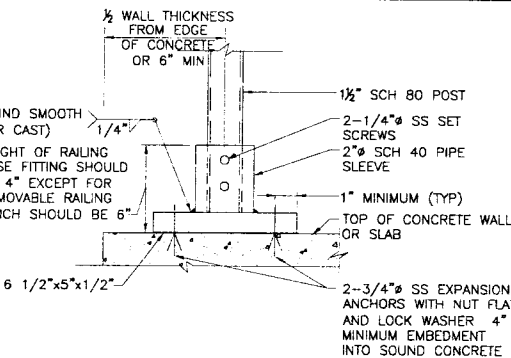
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STAIR RAILING END POST AT BOTTOM

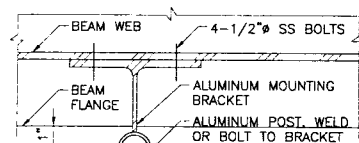
NTS

- NOTES:
1. RAILING: 1 1/2" NOMINAL DIAMETER SCHEDULE 40 POST: 1 1/2" NOMINAL DIAMETER SCHEDULE 80
  2. MAXIMUM POST SPACING 4'-0"
  3. ALL ALUMINUM CONSTRUCTION
  4. ALL FASTENERS STAINLESS STEEL TYPE 316



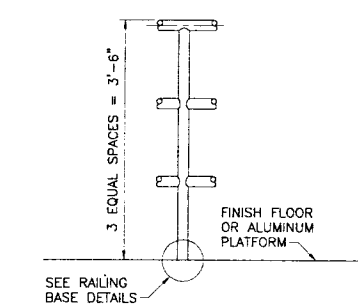
ALUMINUM TOP MOUNTED GUARD RAIL BASE DETAIL

NTS



SIDE MOUNTED RAILING BASE

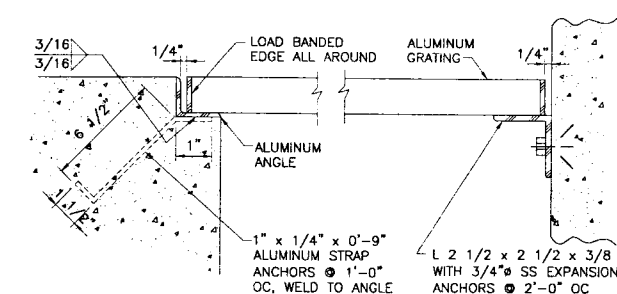
NTS



ALUMINUM GUARD RAIL

NTS

- NOTES:
1. RAILING: 1 1/2" NOMINAL DIAMETER SCHEDULE 40 POST: 1 1/2" NOMINAL DIAMETER SCHEDULE 80
  2. MAXIMUM POST SPACING 4'-0"
  3. ALL ALUMINUM CONSTRUCTION
  4. ALL FASTENERS STAINLESS STEEL TYPE 316

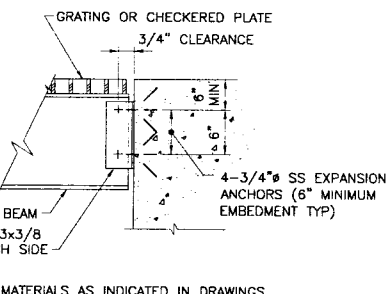


GRATING THICKNESS	ALUMINUM ANGLE SEAT	REMARKS
3/4"	L 1 1/2 x 1 1/2 x 1/4	CUT VERTICAL LEG TO 1"
1"	L 1 1/2 x 1 1/2 x 1/4	CUT VERTICAL LEG TO 1 1/4"
1 1/4"	L 1 1/2 x 1 1/2 x 1/4	
1 1/2"	L 1 3/4 x 1 3/4 x 1/4	
1 3/4"	L 2 x 2 x 1/4	
2"	L 2 1/2 x 2 1/2 x 1/4	CUT VERTICAL LEG TO 2 1/4"

- NOTES:
1. POLYAMIDE EPOXY ON ALL ALUMINUM EMBEDDED OR IN CONTACT WITH CONCRETE.
  2. LOAD BAND ALL EDGES AND OPENINGS.
  3. ANGLE FRAME TO BE MITERED AND WELDED AT CORNERS ON BACK SIDE, GRIND SMOOTH.
  4. GENERAL CONTRACTOR SHALL COORDINATE LOCATION OF OPENINGS ON GRATING PRIOR TO FABRICATION.

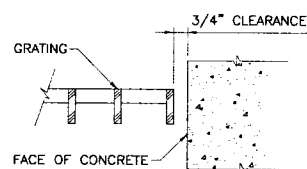
ALUMINUM GRATING SEAT DETAILS

NTS



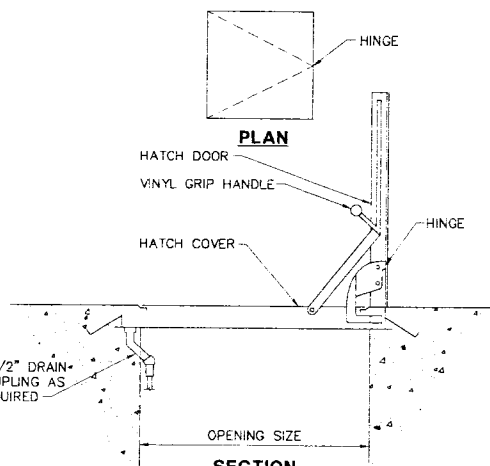
GRATING AND CHECKERED PLATE SUPPORTING BEAM CONNECTION

NTS



GRATING-EDGE CONDITION WHERE NON-SUPPORTED

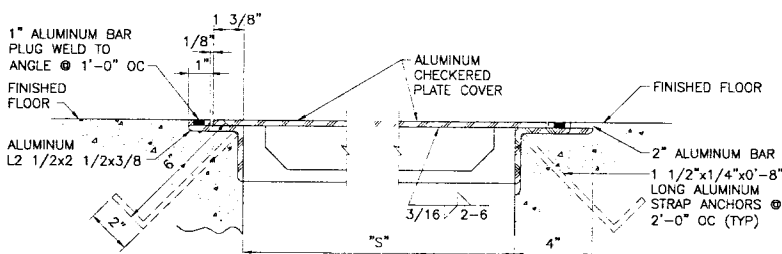
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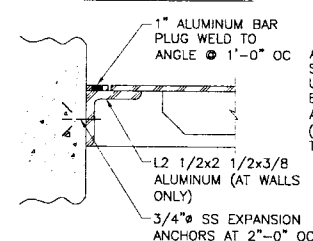
- NOTES:
1. DIMENSIONS SHOWN MAY VARY BASED ON MANUFACTURER.
  2. TYPE "B" HATCH SHOWN. SEE HATCH SCHEDULE ON DRAWING S-2.

ALUMINUM HATCH

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DETAIL AT WALL

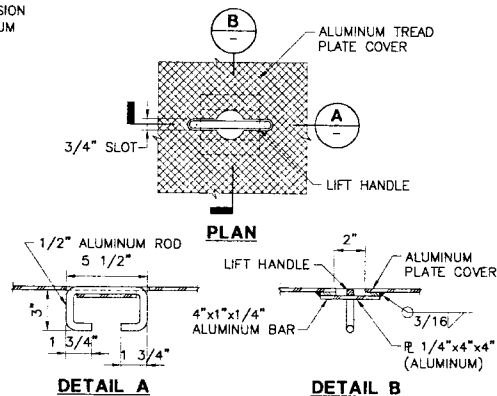


DETAIL AT WALL

- NOTE:
1. HINGE REQUIRED ONLY WHERE INDICATED ON DRAWINGS.
  2. POLYAMIDE EPOXY PAINT ON ALL ALUMINUM EMBEDDED IN OR IN CONTACT WITH CONCRETE.
  3. WIDTH OF ALUMINUM CHECKERED PLATE TO BE 3'-0" MAXIMUM. PLATE SECTIONS OVER STOP GATES SHALL BE 1'-0" WIDTH AND CENTERED OVER STOP GATE.
  4. SEE DRAWINGS FOR THICKNESS OF ALUMINUM FLOOR PLATES.

ALUMINUM CHECKERED FLOOR PLATE

NTS



- NOTE: PROVIDE 2 LIFT HANDLES FOR EACH PLATE SECTION.
- LIFT HANDLE

NTS

ABBREVIATIONS:

ALUMINUM	ALUM(AL)
ANCHOR BOLT	AB
AND	&
ANGLE	L
ARCHITECT	ARCH
AT	AT
BEAM	BM
BOTTOM	BOT
BOTTOM OF CONCRETE	BCC
CROSS BRACING	CB
CENTER	CTR
CENTERLINE	CL
CLEAR	CL
COLUMN	COL
CONCRETE	CONC
CONCRETE MASONRY UNIT	CMU
CONTINUOUS	CONT
CONTROL JOINT	CJ
DETAIL	DET
DIAMETER	DIA.
EACH FACE	EF
EACH WAY	EW
ELEVATION (HEIGHT)	ELEV (EL)
EQUAL	EQ
EXPANSION	EXP
EXTERIOR	EXT
FEET	FT
FLOOR DRAIN	FD
GALVANIZED	GALV
GAUGE	GA
HIGH	HP
HIGH POINT	HP
HORIZONTAL	HORIZ(HOR)
INSIDE DIAMETER	ID
INSIDE FACE	IF
INSULATION	INSUL
JOINT	JT
LONG	LG
LOW POINT	LP
MANUFACTURER	MFR
MASONRY	MAS
MAXIMUM	MAX
MINIMUM	MIN
MODULAR OPENING	MO
MOUNTED	MTD
MOUNTING	MTG
NOT TO SCALE	NTS
NUMBER	NO
ON CENTER	OC
OPENING	OPNG
OUTSIDE DIAMETER	OD
OUTSIDE FACE	OF
PER	PER
PERIMETER	PERIM
PLATE	PL
POUND	P
PROCESS	PR
PROJECTION	PROJ
REINFORCING	REINF
REQUIRED	REQ'D
ROUGH OPENING	RO
SCHEDULE	SCHED(SCH)
SECTION	SECT
SHEET	SHT
SIMILAR	SIM
SLOPE	SL
SPACE(ING)	SP
SPECIFICATION	SPEC
SQUARE	SQ
STAINLESS STEEL	SS
STANDARD	STD
STEEL	STL
STRUCTURAL	STRUCT
SYMMETRICAL	SYM
THICKNESS	THK
TOP	T
TOP & BOTTOM	T & B
TOP OF CONCRETE	TOC
TOP OF GROUT	TOG
TOP OF MASONRY	TOM
TOP OF PLANK/PLATE	TOP
TREAD	T
TYPICAL	TYP
UNLESS OTHERWISE NOTED	UNOT
WATERSTOP	WS
WELDED WIRE FABRIC	WWF
WIDE	W
WITH	W/
WITHOUT	W/O
WOOD	WD

NOTES:

- CONCRETE NOTES:
1. REINFORCED CONCRETE SHALL CONFORM TO THE ACI SPECIFICATION 318-01 AND ACI 350-01.
  2. MINIMUM CONCRETE STRENGTH AT 28 DAYS:  
STRUCTURAL CONCRETE f'c = 4,000 PSI  
CONCRETE FILL f'c = 3,000 PSI
  3. REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM SPECIFICATION A615 GRADE 60 DEFORMED BARS.
  4. REINFORCING STEEL FABRICATION SHALL BE IN ACCORDANCE WITH THE CSRI CODE OF STANDARD PRACTICE.
  5. REINFORCING STEEL SHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER UNLESS OTHERWISE NOTED:  
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3-IN.  
ALL OTHER CONCRETE SURFACES: 2-IN.
  6. SPICED BARS SHALL HAVE A CLASS B TOP BAR TENSION LAP SPLICE UNLESS OTHERWISE NOTED.
  7. IN CONCRETE BEAMS 15" OR DEEPER, PROVIDE CONTINUOUS #5@12" EACH SIDE BETWEEN MAIN REINFORCING.
  8. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT LOCATIONS OTHER THAN SHOWN ON THE DRAWINGS UNLESS REVIEWED AND NO EXCEPTIONS TAKEN BY THE ENGINEER.
  9. SIZE AND LOCATION OF EQUIPMENT PADS AND ANCHOR BOLTS SHALL BE AS REQUIRED BY THE EQUIPMENT MANUFACTURER.
  10. ALL EXPOSED CORNERS AND EDGES OF CONCRETE TO HAVE 3/4" MINIMUM CHAMFER UNLESS OTHERWISE NOTED.
  11. REINFORCING BARS SHALL EXTEND 12 BAR DIAMETERS BUT NOT LESS THAN 12" BEYOND BEND UNLESS OTHERWISE NOTED.
  12. CUT NO BARS AND OMIT NO BARS BECAUSE OF SLEEVE OR DUCT OPENINGS IN SLABS OR WALLS. BARS MAY BE MOVED ASIDE WITHOUT CHANGING THE DISTANCE FROM FACE OF CONCRETE, GENERALLY, NOT MORE THAN 1/2 BAR SPACING. FIELD BENDING OF REINFORCING STEEL IS NOT ALLOWED.
- FOUNDATIONS NOTES:
1. PRIOR TO BACKFILLING, ALL TANKS AND OTHER LIQUID CONTAINING STRUCTURES SHALL BE LEAK TESTED IN ACCORDANCE WITH SPECIFICATION SECTION 03305.
  2. WATER LEAKAGE TESTS AND/OR BACKFILLING SHALL NOT COMMENCE UNTIL THE CONCRETE HAS BEEN IN PLACE FOR A MINIMUM OF 28 DAYS AND HAS ATTAINED DESIGN STRENGTH. THE TOP SLAB OVER THE WET WELLS SHALL BE IN PLACE PRIOR TO THE LEAKAGE TEST AND THE TOP SLAB OVER THE PUMP ROOM SHOULD BE IN PLACE PRIOR TO BACKFILLING.
  3. DEWATERING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN A CONTINUOUS DEWATERING SYSTEM TO INSURE AGAINST FLOTATION OF THE NEW STRUCTURES UNTIL CONSTRUCTION AND BACKFILL ARE COMPLETE.
  4. FOUNDATION DESIGN, SUBGRADE AND FILL DETAILS ARE BASED ON A MAXIMUM NET ALLOWABLE SOIL BEARING CAPACITY OF 1,500 PSF FOR THE BASE SLAB AT EL. 172.50 AND ALL OTHER AREAS 2,500 PSF. IF SOILS AT EXCAVATION BOTTOMS DO NOT MEET THESE CAPACITIES AS VERIFIED BY THE ENGINEER, THE UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH MATERIAL AS DIRECTED BY THE ENGINEER.
  5. ALL CONCRETE STRUCTURES SHALL BE COVERED, INSULATED AND HEATED AS REQUIRED TO PREVENT FROST PENETRATION BENEATH THE STRUCTURES UNTIL ACCEPTANCE BY THE OWNER.
  6. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 4'-0" MINIMUM BELOW FINISH GRADE.
  7. BACKFILL BOTH SIDES OF FROST WALLS AT THE SAME TIME.
- GENERAL NOTES:
1. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL PROCESS, HVAC, PLUMBING AND ELECTRICAL DRAWINGS, SHOP DRAWINGS AND SPECIFICATIONS.
  2. SEE ARCHITECTURAL, PROCESS, HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED OR PASSED THROUGH THE CONCRETE.
  3. THE CONTRACTOR SHALL COORDINATE PREPARED OPENING SIZES AND LOCATIONS WITH THE VARIOUS CONSTRUCTION TRADES. MANY SLEEVE SIZES AND PREPARED OPENING SIZES ARE LARGER THAN THE NOMINAL DIMENSION IN ORDER TO ACCOMMODATE THE EQUIPMENT. FOR EXAMPLE, THOSE REQUIRED FOR THE FIRE DAMPERS HAVE SPECIFIC REQUIREMENTS FOR FLOOR OPENING SIZES WHICH ARE LARGER THAN THE DUCT SIZE. THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL CONSTRUCTION TRADES FOR THEIR REQUIRED PENETRATIONS THROUGH THE CONCRETE PRIOR TO CONCRETE PLACEMENT.
  4. THE DETAILS SHOWN ON DRAWINGS S-6 AND S-7 SHOULD BE USED WHOLLY OR IN PART WHERE THEY APPLY EXCEPT WHERE MODIFIED BY THE DETAILED DRAWINGS OR SPECIFICATIONS.