

PARA. 1608.7 TO 1608.9

100 PSF

G2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND SHOP DRAWINGS. G3. EXISTING DIMENSIONS AND CONDITIONS MUST BE VERIFIED OR DETERMINED IN THE FIELD AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE

G1. STRUCTURAL WORK SHALL CONFORM TO REQUIREMENTS OF "THE INTERNATIONAL BUILDING CODE 2003"

AFFECTED PORTION OF THE WORK. G4. SHOP DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL, AND METAL DECK, SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED APPROVAL RECEIVED BEFORE FABRICATION

CAN PROCEED. FABRICATION AND ERECTION SHALL BE MADE FROM APPROVED SHOP DRAWINGS ONLY. G5. NOTES AND DETAILS SHOWN ON ANY DRAWINGS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR

CONDITIONS, UNLESS OTHERWISE NOTED.

G6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

STRUCTURAL LOADS

L1. BUILDING CLASSIFICATION - TABLE 1604.5 CATEGORY II *L2. DEAD LOADS* A. WEIGHT OF BUILDING MATERIALS PARA. 1606.1 L3. ROOF SNOW LOADS A. GROUND SNOW LOAD - FIG. 1608.2 P(g) = 60 PSFB. FLAT ROOF SNOW LOAD P(f) = 42 PSFC. SNOW EXPOSURE FACTOR — TABLE 1608.3.1 C(E) = 1.0D. SNOW IMPORTANCE FACTOR - TABLE 1604.5 I(s) = 1.0T. THERMAL FACTOR — TABLE 1608.3.2 C(T) = 1.0

L4. FLOOR LIVE LOADS A. OPEN PLAN AREAS

<u>FOUNDATION</u>

F. SNOW DRIFT AND SLIDING SNOW

- F1. THE BOTTOM SURFACE OF ALL SPREAD FOOTINGS SHALL REST ON UNDISTURBED MATERIAL OR COMPACTED STRUCTURAL FILL, WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 2.0 TONS PER SQUARE FOOT.
- F2. THE ESTIMATED ELEVATION OF BOTTOM OF EACH FOOTING IS INDICATED THUS [0'-0"] ON PLAN. BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 4'-6" BELOW FINISH GRADE.
- F3. NO FOOTING SHALL BE PLACED UNDER WATER OR ON FROZEN SUBGRADE. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL PROJECT IS COMPLETED.
- F4. PROVIDE 6" MINIMUM COMPACTED DRAINAGE FILL AND A 15 MIL. POLYETHYLENE VAPOR BARRIER UNDER INTERIOR SLABS ON GRADE UNLESS OTHERWISE NOTED.
- F5. NO BACKFILL SHALL BE PLACED AGAINST FOUNDATION WALLS RETAINING EARTH UNTIL PERMANENT FLOOR SYSTEM IS IN PLACE AND OF FULL DESIGN STRENGTH UNLESS OTHERWISE NOTED.

CONCRETE

- C1. CONCRETE WORK SHALL CONFORM TO ACI STANDARD 318 08 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- C2. CONCRETE SHALL BE CONTROLLED CONCRETE (PROPORTIONED, MIXED AND PLACED IN PRESENCE OF APPROVED TESTING AGENCY).
- C3. CONCRETE MINIMUM 28 DAY STRENGTH, UNLESS OTHERWISE NOTED, SHALL CONFORM TO FOLLOWING
 - A. FOOTINGS, PIERS, FOUNDATION WALLS: 3,000 PSI (NORMAL WEIGHT) B. SLABS ON GRADE: 3.000 PSI (NORMAL WEIGHT)
 - C. EXTERIOR STAIRS: 4.000 PSI (NORMAL WEIGHT)
- C4. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NOMINAL DENSITY OF 145 PCF.
- C5. REINFORCING BARS SHALL CONFORM TO ASTM A 615 GRADE 60, AND SHALL BE DEFORMED. LAP ALL CONTINUOUS BARS A MINIMUM OF 40 DIAMETERS UNLESS OTHERWISE NOTED. PROVIDE MATCHING CORNER AND INTERSECTION WALL BARS.
- C6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 IN FLAT SHEETS. LAP ONE AND ONE—HALF SQUARES AT ALL JOINTS AND TIE AT 3'-0" o.c.

CONCRETE CONTINUED

- C7. CLEAR CONCRETE PROTECTION FOR REINFORCING:
- A. FOOTINGS: B. FOUNDATION WALLS:

UNLESS OTHERWISE NOTED.

- C. SLABS ON GRADE:
- C8. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF SLEEVES, DUCT OPENINGS OR RECESSES. BARS MAY BE MOVED ASIDE WITHOUT CHANGE IN LEVEL, WITH THE APPROVAL OF THE ARCHITECT.
- C9. NO CHASES, RECESSES, OPENINGS OR SLEEVES SHALL BE INSTALLED IN CONCRETE WITHOUT APPROVAL

1" FROM TOP

- OF THE ARCHITECT. C10. KEYS SHALL BE A MINIMUM OF 2" X 4" WITH BEVELED SIDES.
- C11. DOWELS AND ANCHOR RODS SHALL BE SET BY TEMPLATE.
- C12. HORIZONTAL CONSTRUCTION JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. VERTICAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ARCHITECT. CONSTRUCTION JOINTS SHALL BE FORMED WITH A STANDARD KEY AND ALL REINFORCING EXTENDED A MINIMUM OF 40 DIAMETERS
- C13. FLOOR SLABS SHALL BE POURED TO THE REQUIRED ELEVATION. SLAB THICKNESSES INDICATED ARE MINIMUM.
- C14. DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL.

STRUCTURAL STEEL

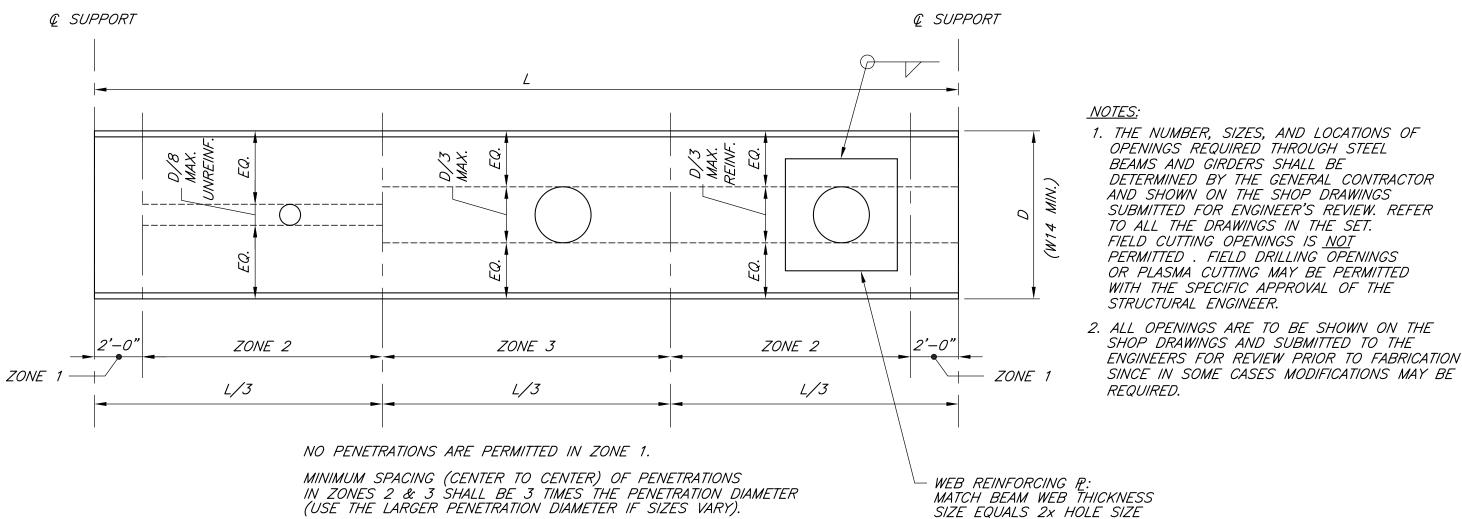
- S1. STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:
 - A. SHAPES ASTM A 992, GRADE 50 Fy = 50 KSI B. PLATES ASTM A 36 Fy = 36 KSIASTM A 500, GRADE B Fy = 46 KSI C. TUBES ASTM A 53, GRADE B OR Fy = 35 KSI ASTM A 501 Fy = 36 KSI
- S2. SHOP CONNECTIONS SHALL BE WELDED TO CONFORM TO ASTM A 233, E70 SERIES OR BOLTED TO CONFORM TO ASTM A 325.
- S3. UNLESS OTHERWISE NOTED, FIELD CONNECTIONS SHALL BE BOLTED TO CONFORM TO ASTM A 325, TYPE N BOLTS,
- S4. PROVIDE 34" DIAMETER ANCHOR RODS AT COLUMNS AS INDICATED ON THE DRAWINGS. RODS SHALL CONFORM TO ASTM F1554, UNLESS OTHERWISE NOTED. ANCHOR RODS SHALL BE HEADED TYPE.

<u>METAL DECK</u>

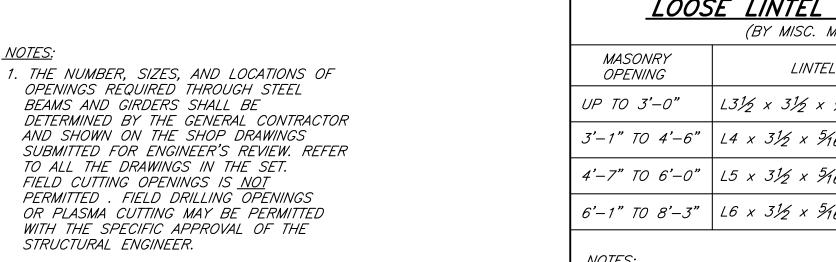
- D1. METAL ROOF DECK SHALL BE MADE FROM STEEL CONFORMING TO ASTM A611, GRADE A (Fy=33 KSI) AND BE GALVANIZED IN ACCORDANCE WITH ASTM A653, G60. DECK TYPE DEPTH AND GAUGE SHALL BE AS NOTED ON THE DRAWINGS.
- D2. METAL ROOF DECK SHALL BE ATTACHED TO THE SUPPORTING STRUCTURE (MINIMUM
- REQUIREMENTS) AS FOLLOWS: A. PANEL ENDS AND END LAPS

D. SIDE LAPS FOR ADJACENT UNITS

- B. INTERMEDIATE SUPPORTS LONGITUDINAL EDGES OF MARGINAL SUPPORTS:
- 5/8" PUDDLE WELD AT EACH RIB. 5/8" PUDDLE WELD AT EACH RIB. 56" PUDDLE WELDS AT 12" o.c. MAX. #12 SCREWS AT 24" o.c. MAX.



SMALL BEAM PENETRATIONS



- L5x5 CONT WITH HOLES

AT 2'-0"o.c -TYP FOR

SIZE WITH MANUF.

41/5x1/5x10" LG BRG. P

WITH 4-56" BOLTS

3/8" STIFF P AT

(1 EACH SIDE)

FOR BEAM SIZES

SEE PLAN

AŽ*L POST*

HSS3X3 POST

COORD. WITH

ARCH DWGS

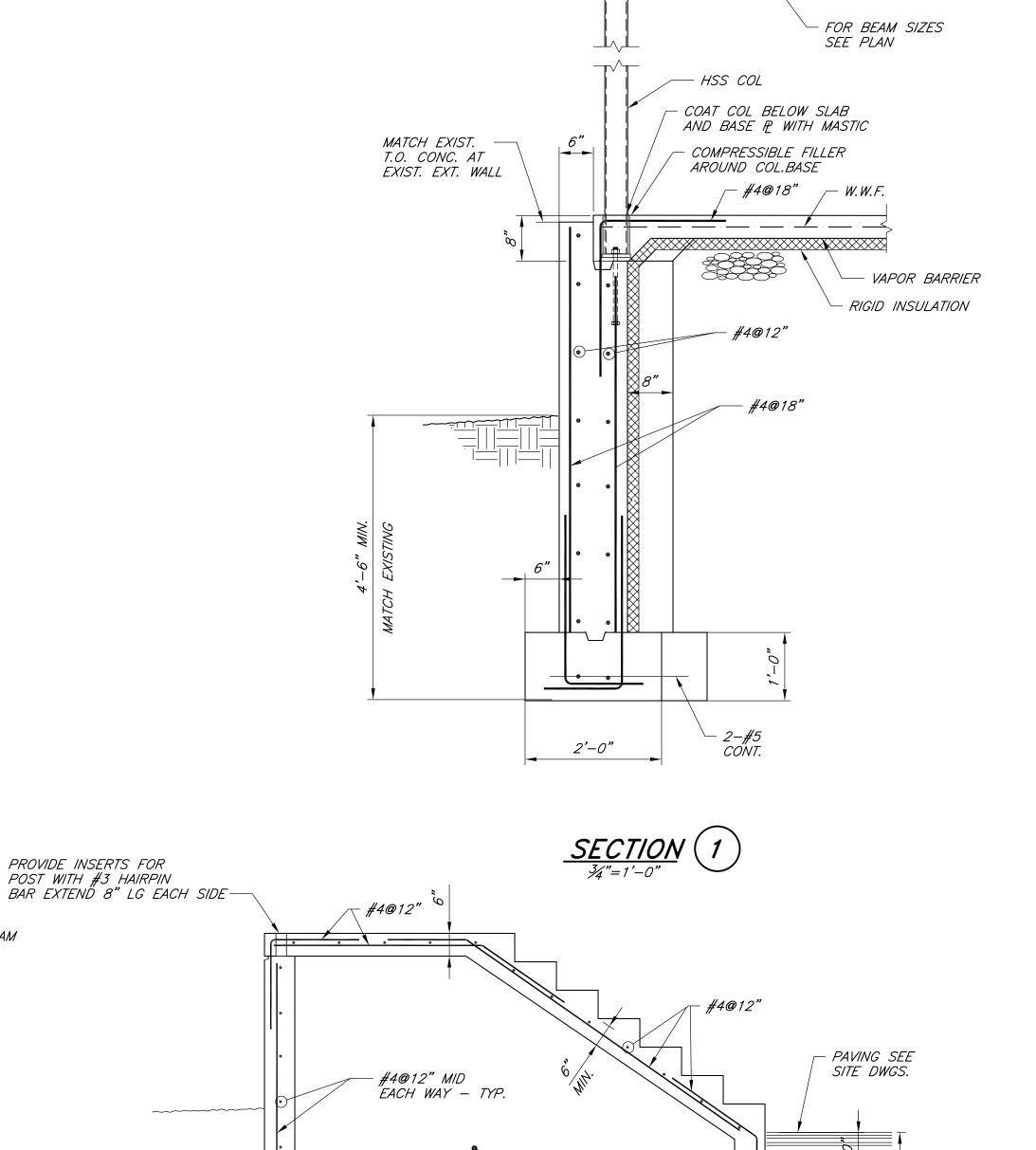
SKYLIGHT FRAMING COORD.

- WELD 3"x12"x¾" PLATE TO BEAM

TO PICK UP DECK AT POST

NOTES:

- . PROVIDE LINTELS OVER ALL OPENINGS (INCLUDING M.E.P. OPENINGS) EXCEPT WHERE LINTEL BLOCKS ARE PROVIDED. 2. PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. FOR 6" WALLS, PROVIDE A TEE OR BUILT-UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN 1.50 TIMES THE ANGLE PROPERTIES FOR A 4" WALL THICKNESS.



- 8" CONC. WALL

2-#5

Revisions

Project

Drawing Title

BEYOND

"ALT BEND - TYP.

STEEL FRAMING

BEYOND

LOOSE LINTEL SCHEDULE (BY MISC. METAL) MIN. BEARING LINTEL SIZE AT EACH END L31/2 x 31/2 x 5/16 3'-1" TO $4'-6" \mid L4 \times 3\frac{1}{2} \times \frac{5}{16}$ (4" LEG VERT) 4'-7" TO 6'-0" | L5 x $3\frac{1}{2}$ x $\frac{5}{16}$ (5" LEG VERT.) 6'-1" TO 8'-3" | L6 x 3½ x 5/16 (6" LEG VERT.)

2'-0"

18 GA, GALV. CLOSURE PIECE

@ 3'−0"o.c. TO BEAM

WELD ¾" CONT.P AND ¾" STIFF. FE

ADDED PLATES AT

DECK PARALLEL TO BEAM

DOUBLE ANGLE-CONN. -TYP.

PROVIDE INSERTS FOR

POST WITH #3 HAIRPIN

3. ALL EXTERIOR LINTELS SHALL BE GALVANIZED BY THE HOT DIP PROCESS.

structural engineers

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Date

No. |

THE SAM L. COHEN

REHAB. CENTER

AT THE CEDARS

ALTERATIONS & ADDITION

PORTLAND, MAINE

STRUCTURAL PLANS

AND DETAILS

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