

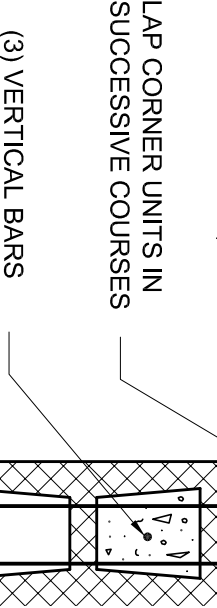
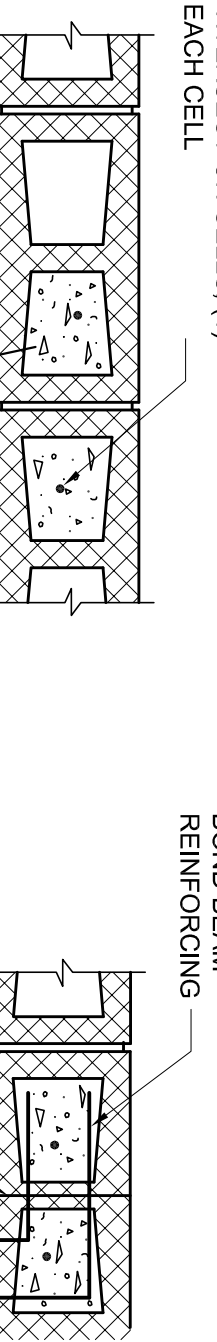
**PERMIT SET**  
JUNE 23, 2006

1. PORTIONS OF STEEL FRAMING TO RECEIVE FIREPROOFINGS SHALL BE SHIPPED UNPAINTED & UNPAINTED REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
2. MINIMUM LOADING REQUIREMENTS
  - A. ROOF LOADS (EXCEPT AT DRIFTING SNOW LOCATIONS AND THOSE LISTED BELOW)
    - LIVE (SNOW) LOAD: 60.0 P/SF (IMPORFANCE FACTOR = 1.0; EXPOSURE FACTOR = 1.0)
    - DEAD LOAD: 20.0 P/SF
    - FOUNDING DESIGN DEPTH: 8' MAX.
  - B. DRIFTING SNOW, MECHANICAL UNITS, AND SPECIAL CONDITIONS:
    - SEE STRUCTURAL DRAWING SF-103 FOR DRIFTING SNOW LOAD DISTRIBUTION DIAGRAMS, WEIGHT AND LOCATION OF ROOF-TOP HVAC UNITS, AND SPECIAL CONDITION INFORMATION REGARDING THE DESIGN REQUIREMENTS OF THE STRUCTURAL SYSTEMS.
  - C. ELOOR LOADS:
    - CORRIDORS ABOVE 1<sup>st</sup> FLOOR: LIVE: 80 PSF DEAD: 57 PSF
    - OFFICE/CONFERENCE STORAGE AREAS: LIVE: 50 PSF DEAD: 57 PSF
    - ADDITIONAL LIVE LOAD FOR OFFICE PARTITIONS: LIVE: 20 PSF
- WIND LOADS:
  - A. FACTORS:
    - BASIC WIND SPEED: 90 MPH EXPOSURE CATEGORY: 'B'
    - IMPORFANCE FACTOR: 1.0 AVERAGE BUILDING HEIGHT: 25' +/-
    - MINIMUM ROOF UPLIFT DESIGN LOADS:
      - a. FIELD: 13 PSF
      - b. PERIMETER/7' WIDE: 16 PSF
      - c. CORNERS/7' x 7': 22 PSF
  - B. WIND COEFFICIENTS:
    - a. RESPONSE SPECTRAL ACC. 0.2 sec.) S<sub>w</sub> = 0.270g
    - b. RESPONSE SPECTRAL ACC. 0.10 sec.) S<sub>w</sub> = 0.169g
    - c. SITE COEFFICIENTS: F<sub>s</sub> = 1.00; F<sub>v</sub> = 2.40
    - d. MAX. CONSIDERED EARTHQUAKE ACC @ 5% DAMPED DESIGN: S<sub>w</sub> = 0.370 S<sub>w</sub> = 0.157
  - C. BUILDING CATEGORY: II
  - D. SEISMIC USE GROUP: I
  - E. SEISMIC DESIGN CATEGORY FOR 0.1 AND 1.0 SECONDS: C

- STRUCTURAL/SEISMIC RESISTING SYSTEM:
1. TYPICAL -
- BUILDING FRAME SYSTEM
- A. ORDINARY STEEL MOMENT FRAMES:
  - a. RESPONSE MODIFICATION FACTOR (R) = 3.1%
  - b. DEFLECTION AMPLIFICATION FACTOR (C2) = 3
- B. ORDINARY REINFORCED MASONRY SHEAR WALLS:
  - a. RESPONSE MODIFICATION FACTOR (R) = 3
  - b. DEFLECTION AMPLIFICATION FACTOR (C2) = 2.1%
- BEARING WALL SYSTEM
- C. ORDINARY STEEL MOMENT FRAMES:
  - a. RESPONSE MODIFICATION FACTOR (R) = 3.1%
  - b. DEFLECTION AMPLIFICATION FACTOR (C2) = 3

- STRUCTURAL NOTES:
3. ALL STRUCTURAL STEEL BEAMS, COLUMNS SHALL CONFORM TO ASTM A572 GRADE 50 ALL STEEL TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE 'B' - F<sub>y</sub>=48ksi; ALL MISCELLANEOUS PLATES, SHIMS AND ANGLES SHALL CONFORM TO ASTM A36 F<sub>y</sub>=36ksi.
  4. ALL STRUCTURAL WOOD TO CONFORM TO THE LATEST PDS STANDARDS.
  5. ALL PLYWOOD TO CONFORM TO THE LATEST PDS STANDARDS.
  6. SEE ARCHITECTURAL WALL SECTIONS AND DETAILS FOR MISCELLANEOUS STEEL.
  7. ALL STEEL BEAMS RESTING ON MASONRY WALLS SHALL HAVE BEARING PLATES AND (B) COURSES OF FILLED BLOCK UNDERNEATH.
  8. PROVIDE ANDING ALL DOUBLE ZAG HEADERS AND RAIL FRAMING AROUND ALL ROOF PENETRATIONS. SEE MECHANICAL PLANS AND DETAILS AND ROOF PLANS AND DETAILS.
  9. STEEL ROOF DECK AND FASTENING REQUIREMENTS SHALL BE AS SPECIFIED IN DIVISION 5 OF THE SPECIFICATIONS.
  10. ALL BASE PLATE ANCHOR BOLTS IN NEW CONSTRUCTION WILL BE 3/4" Ø A-307 WITH A MINIMUM OF 1" EMBEDMENT AND A STANDARD 3 HOOK.
  11. ALL SILL PLATES SHALL BE FASTENED TO FOUNDATION WITH 1/2" Ø ANCHOR BOLTS AT 4' O.C. UNLESS OTHERWISE NOTED.
  12. AT LOCATIONS BETWEEN SUPPORTS, PROVIDE 38" WEB STIFFENERS (UNLESS OTHERWISE NOTED) ON BOTH SIDES OF STEEL BEAMS AT ALL LOCATIONS WHERE STEEL BEAM SUPPORT COLUMNS ABOVE.
  13. ALL STEEL TUBE PIPE OR STRUCTURAL STEEL COLUMNS SUPPORTED BY A STEEL BEAM SHALL HAVE BASE PLATES WELDED TO THE BEAM ON ALL SIDES.
  14. SPECIAL INSPECTIONS: AN INDEPENDENT INSPECTOR SHALL MAKE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC2009 AND AS DEFINED IN SPECIAL INSPECTION REPORT.
  15. A QUALIFIED PERSON APPROVED BY THE BUILDING OFFICIALS SHALL MAKE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC2009 AND AS DEFINED IN SPECIAL INSPECTION REPORT.
  16. CONTRACTOR SHALL OBSERVE WORK FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.
  17. INSPECTION REPORTS SHALL BE FURNISHED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND IF NOT CORRECTED, SHALL BE REPORTED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER.
  18. THE FOLLOWING TYPES OF WORK SHALL RECEIVE SPECIAL INSPECTION OVERSIGHT: INSTALLATION OF HIGH STRENGTH BOLTS, WELDING, STRUCTURAL FRAME AND DETAILS INSTALLATION OF REINFORCING STEEL, CONCRETE PLACEMENT, STRUCTURAL FILL PLACEMENT AND FABRICATION PROCESSES OF COLD METAL FRAMING ELEMENTS AND REPORT FOR ALL UNDERLAYS AND PERIMETER DRAINAGE REQUIREMENTS.

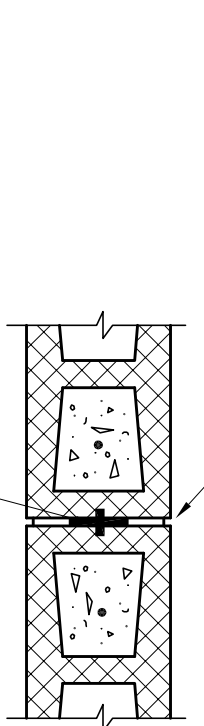
**STRUCTURAL NOTES**



- NOTES:
1. VERTICAL REINFORCING SHALL BE #3 @ 16" O.C. TIES.
  2. FOR SIZE SEE PLAN & STRUCTURAL NOTES.

INTERSECTION

CORNERS



CONTROL JOINT

JAMB & WALL ENDS

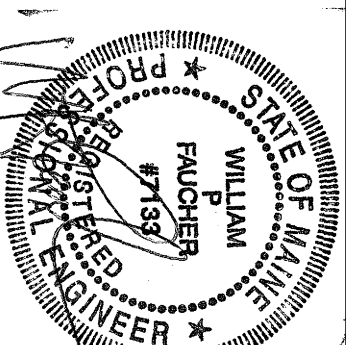
**NOTES AND MISC. DETAILS**

DELTA ROOFING  
PORTLAND, MAINE

Date: / /  
Drawn By: PED  
Checked By: WPF  
Project Mgr: WPF  
Project No: 06029  
Cad File: 0602950.dwg  
Graphic Scale: 0 1"

**REVISIONS**

NUMBER	DATE	BY	DESCRIPTION



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