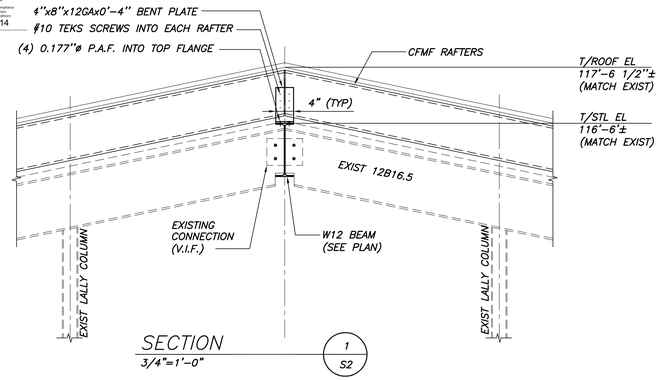
Reviewed for Code Compliance
Inspection Division
Approved as Noted
Date: 11/12/14



SECTION 1/S2
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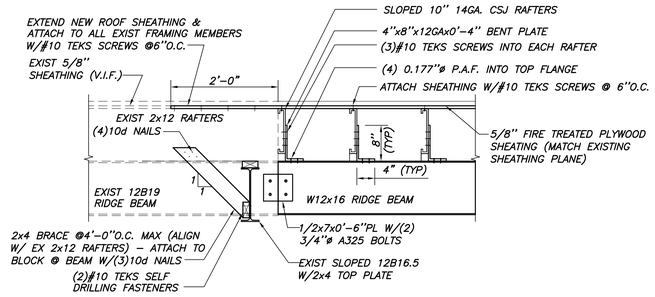

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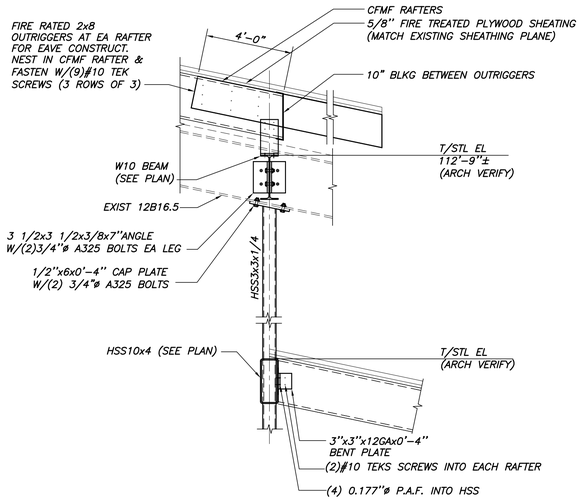

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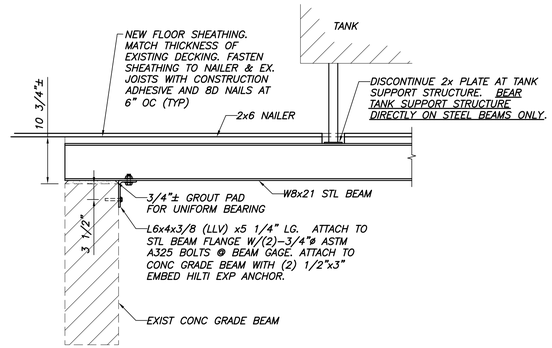

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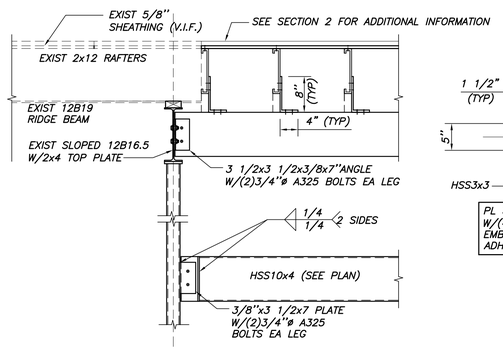

SECTION 5/S2
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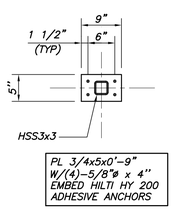
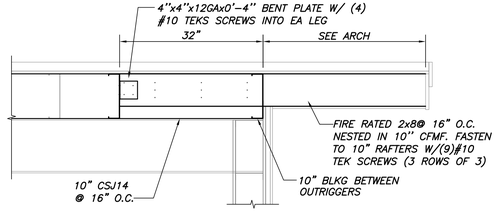


BP-A



SECTION 6/S2
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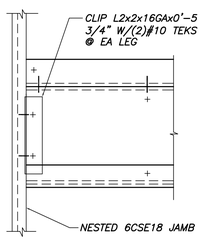
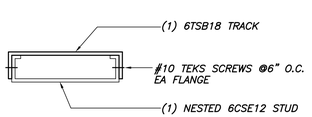
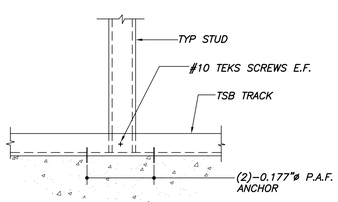


H1 DETAIL
N.T.S.



TYPICAL JAMB



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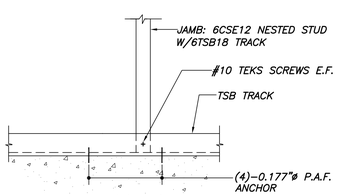

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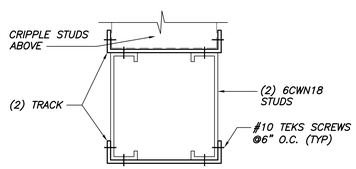
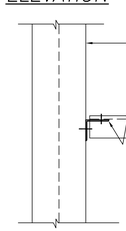
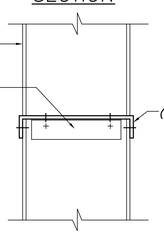


HEADER H1

ELEVATION



SECTION



TYP SILL DETAIL
N.T.S.

GENERAL NOTES

1. THE FOLLOWING NOTES ARE INTENDED TO BE USED AS OUTLINED SPECIFICATIONS FOR THIS PROJECT. THE REFERENCED STANDARDS ARE CONSIDERED TO BE PART OF THE WORK.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
4. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
6. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHORING, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND ENGINEER. SUBMIT ONE COPY AND ONE SEPIA. COPY WILL BE REVIEWED AND SEPIA WILL BE RETURNED. FOR SHOP DRAWINGS AND SUBMITTALS REQUIRED, REFERENCE THE PROJECT SPECIFICATION.
7. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
8. IN ACCORDANCE WITH THE MAINE UNIFORM BUILDING AND ENERGY CODE/INTERNATIONAL BUILDING CODE (2009 EDITION, SECTION 1704.1), A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR PERMIT ISSUANCE BY THE LOCAL CODE OFFICIAL. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE INDIVIDUALS, APPROVED AGENCIES AND FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.
9. REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL" LATEST EDITION, AND THE "CODE OF STANDARD PRACTICE", LATEST EDITION.
2. STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHER WISE (U.N.O.). STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE-FLANGE SECTIONS: ASTM A992 (ASTM A572 GRADE 50 WITH SPECIAL REQUIREMENTS PER AISC TECHNICAL BULLETIN #3 DATED MARCH, 1997)
3. STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 KSI.
4. FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325N HIGH STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED AND NOTED BY A325 (SC) ON THE DRAWINGS. PROVIDE SLIP CRITICAL (SC) CONNECTIONS AT ALL MOMENT CONNECTIONS, BRACED FRAMES, RELIEVING ANGLES AND AS OTHERWISE NOTED. USE A490 BOLTS WHERE INDICATED.
5. WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL CONFORM TO AWS A5.1 E70XX SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN)
6. PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE OF BEAM WEB AT BEAMS FRAMING OVER COLUMNS AND AT BEAMS SUPPORTING COLUMNS ABOVE.
7. PROVIDE 1/4" THICK LEVELING PLATE UNDER ALL COLUMN BASE PLATES UNLESS OTHERWISE NOTED. LEVELING PLATES SHALL BE SET AND GROUTED PRIOR TO ERECTING COLUMNS.
8. PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BLOTS ETC., SHOWN ON ARCHITECTURAL DRAWINGS FOR SUPPORT OF BLOCKING, PARAPETS, FINISHES, ETC. COORDINATE WITH MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.

COLD FORMED FRAMING NOTES:

1. PRODUCTS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AISI SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, 1996 EDITION & 1999 SUPPLEMENT, AWS SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES, D1.3, ASTM 653 STANDARD SPECIFICATION FOR SHEET STEEL, ZINC (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANIZED) BY THE HOT DIP PROCESS AND ASTM C 955 STANDARD SPECIFICATION FOR LOAD BEARING (TRANSVERSE AND AXIAL STEEL STUDS, RUNNER (TRACK) AND BRACING AND BRIDGING, FOR SCREW APPLICATION OF GYPSUM BOARD AND METAL PLASTER BASES.
2. FRAMING MATERIALS SHALL BE AS INDICATED ON THE DRAWINGS AS MANUFACTURED BY DIETRICH INDUSTRIES, INC. 500 GRANT ST., SUITE 2226, PITTSBURGH, PA. 15219, (412) 281-2805. APPROVED EQUALS WILL BE CONSIDERED.
3. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 COATING MEETING ASTM C 955.
4. WALL BRIDGING AND SOLID BLOCKING SHALL BE PROVIDED TO BRACE STUDS AGAINST ROTATION. INSTALL WALL BRIDGING AND BLOCKING PER DETAILS THIS DWG.
5. SCREWS SHALL BE SELF DRILLING, SELF TAPPING, ZINC COATED AND NOT LESS THAN #10.
6. SCREW PENETRATION THROUGH JOINED MATERIALS SHALL NOT BE LESS THAN THREE EXPOSED SCREW THREADS.
7. PROTECTIVE COATINGS ON SCREW FASTENERS SHALL BE COMPATIBLE WITH LIGHT GAUGE MATERIAL BEING JOINED.
8. CONTRACTOR SHALL REFER TO INSTALLATION INSTRUCTIONS PUBLISHED BY THE SCREW MANUFACTURER AND ASTM C954 FOR MINIMUM SPACING AND EDGE DISTANCE REQUIREMENTS AND TORQUE REQUIREMENTS.
9. POWDER ACTUATED FASTENERS INTO STEEL SHALL BE HILTI X-U.
10. POWER ACTUATED FASTENERS DESIGNATED 0.145" DIAMETER INTO CONCRETE SHALL BE HILT X-U PINS AND SHALL NOT BE INSTALLED UNTIL FULL COMPRESSIVE STRENGTH IS OBTAINED. PROVIDE 1" MIN EMBEDMENT.
11. CONTRACTOR SHALL REFER TO INSTRUCTIONS PUBLISHED BY THE P.A.F. MANUFACTURER FOR MINIMUM SPACING, EDGE DISTANCE AND CONCRETE EMBEDMENT AND ADDITIONAL INSTALLATION REQUIREMENT.
12. CUTTING OF COLD FORMED STEEL FRAMING SHALL BE BY SAW, SHEAR OR PLASMA CUTTING EQUIPMENT. OXYACETYLENE TORCH CUTTING IS NOT PERMITTED.
13. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.
14. TOP TRACKS SHALL BE CONTINUOUS. WHERE SPLICING OF TRACK IS NECESSARY BETWEEN STUD SPACING, A PIECE OF STUD SHALL BE PLACED BETWEEN ADJACENT TRACKS AND FASTENED BY WELDS OR SCREWS TO EACH SIDE OF THE TRACK, EACH END, U.N.O.
15. SPLICING OF FRAMING COMPONENTS, OTHER THAN TRACK, IS NOT PERMITTED.
16. A SEALANT SHALL BE APPLIED TO CONCRETE OR MASONRY SURFACES PRIOR TO ANCHORING TRACKS.
17. PROVIDE HORIZ STRAP BRIDGING FOR ALL WALLS. HORIZ BRIDGING SHALL BE CONT 20GA x 1 1/2" (MIN) WIDE STEEL STRAPS ON EA FACE OF STUD, LOCATED AT MAX 4'-0" ON CENTER FOR THE FULL HEIGHT OF THE WALL. PROVIDE TRACK SOLID BLOCKING AT 10'-0" ON CENTER ALONG THE WALL AT EA LINE OF BRIDGING. PROVIDE AN ADDITIONAL LINE OF BRIDGING A MAX OF 12" BELOW ALL SLIP TRACK CONNECTIONS. ALTERNATELY, BRIDGING CHANNELS AND BRIDGING CLIPS MAY BE USED.
18. SLIDE CLIPS SHALL BE SUPERSTUD DC1500 DEFLECTION CLIPS.

DESIGN LOADS

1. BUILDING CODE:
   MAINE UNIFORM BUILDING AND ENERGY CODE
   INTERNATIONAL BUILDING CODE, 2009 EDITION
   INTERNATIONAL EXISTING BUILDING CODE, 2009 EDITION
   ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
2. DESIGN FLOOR LIVE LOADS:
   OFFICES: 50 PSF + 15 PSF PARTITION ALLOWANCE
3. DESIGN ROOF SNOW LOAD:
   GROUND SNOW LOAD (Pg): 60 PSF
   SNOW EXPOSURE FACTOR (Ce): 1.0
   SNOW LOAD IMPORTANCE FACTOR (Is): 1.0
   SNOW LOAD THERMAL FACTOR (Ct): 1.1
   FLAT ROOF SNOW LOAD (Pf): 46 PSF + DRIFT
4. DESIGN WIND LOAD:
   BASIC WIND SPEED: 100 MPH
   WIND LOAD IMPORTANCE FACTOR (Iw): 1.0
   WIND EXPOSURE: B
   INTERNAL PRESSURE COEFFICIENT: ±0.18
   COMPONENTS & CLADDING PER ASCE 7-05
5. DESIGN SEISMIC LOAD:
   THE NEW ADDITION IS DIRECTLY ATTACHED TO THE EXISTING STRUCTURE. SEISMIC STRESSES IN THE EXISTING STRUCTURE DUE TO THE ADDITION HAVE NOT YET INCREASED GREATER THAN ALLOWED BY THE INTERNATIONAL EXISTING BUILDING CODE. SEISMIC UPGRADE TO THE EXISTING STRUCTURE IS NOT REQUIRED.

NOT FOR CONSTRUCTION
PERMIT & BID SET 7/18/2014

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BECKER
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Rev. No	Date	Issued For	Apprd

SEASIDE REHAB ROOM ADD'N
PORTLAND, ME

SECTIONS & DETAILS

Designed PCH	Scale 1/4" = 1'
Drawn PCH	Date 7/18/14
Checked JF	Becker Job Number 3286

S1