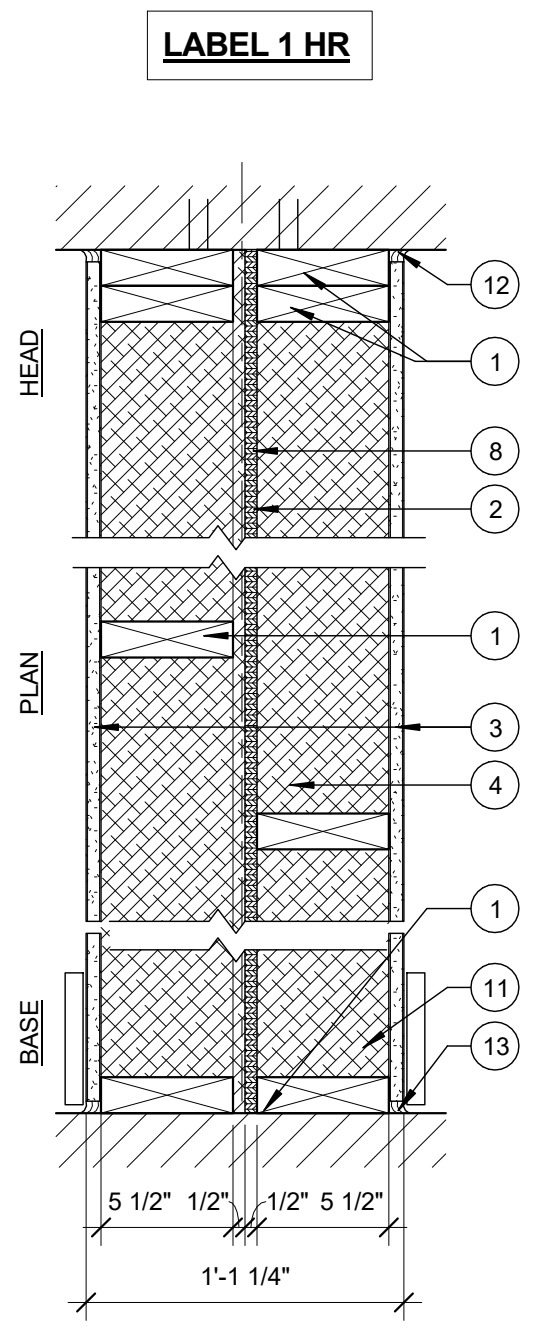


- W18 2 HR BEARING FIRE BARRIER**  
DESIGN NUMBER - UL - U905  
STC SOUND - N/A
1. CONCRETE BLOCKS - CLASSIFICATION D-2 (2HR) 8" NOM. THICKNESS.
  2. MORTAR - BLOCKS LAID IN A FULL BED OF MORTAR, NOM. 3/8 IN THICK, OF NOT LESS THAN 2 1/4 AND NOT MORE THAN 3 1/2 PARTS CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME), VERTICAL JOINTS STAGGERED.
  3. REINFORCING - SEE STRUCTURAL DRAWINGS
  4. .
  5. .
  6. .
  7. .
  8. .
  9. .
  10. .
  11. .
  12. UNDERSIDE OF STRUCTURE
  13. TOP OF STRUCTURE

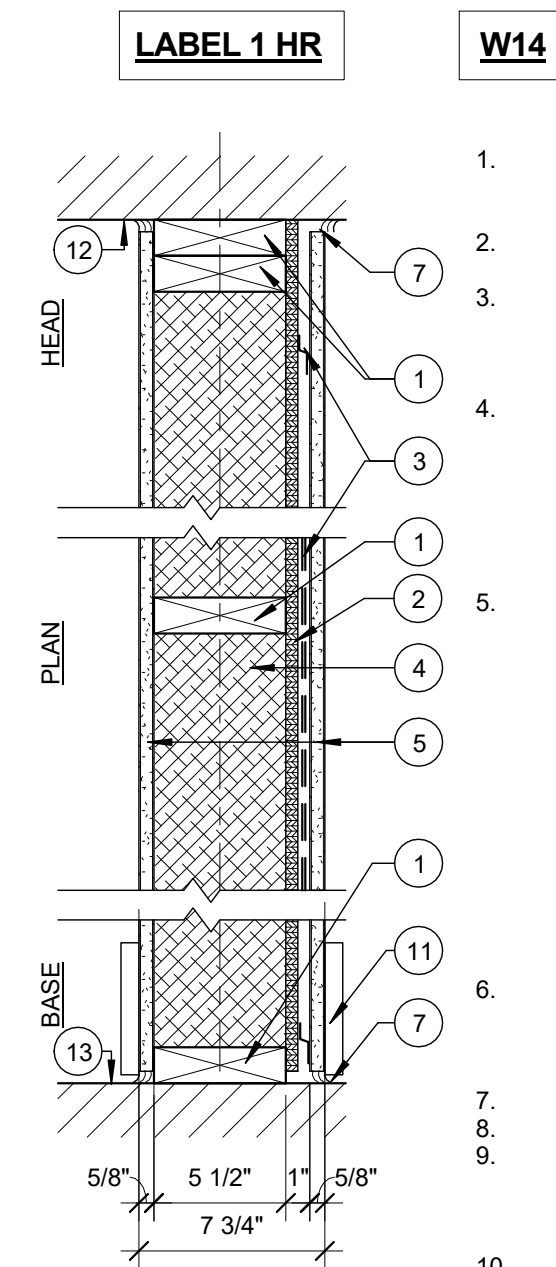
**18** WALL TYPE 18 - CMU SHAFT WALL  
1 1/2" = 1'-0"



- W16 1 HR BEARING FIRE BARRIER**  
DESIGN NUMBER - UL U493 (GA FILE WP5006 PROPRIETARY 1 HOUR FIRE)  
60-64 STC SOUND - USG STC-050817, 8-11-05  
FIRE TEST: UL R1319, 96NK31548, 10-21-96 UL DESIGN U493
1. WOOD FRAMING - WOOD STUDS, NOM. 2 IN BY 6 IN., DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR STUD LAYOUT BRACING, AND FASTENERS.
  2. LOCATION OF SHEARWALL SHEATHING - ONLY REQUIRED AT SHEARWALLS, SEE STRUCTURAL FOR REQUIREMENTS
  3. TYPE X GYP BOARD - NOM. 5/8 IN THICK, 4 FT. WIDE, GYP BOARD PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERT. OR HORZ. SINGLE LAYER INSTALLED ON EA. SIDE OF STL STUDS. VERTICAL JNTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. HORZ. EDGE JNTS AND HORZ. BUTT JNTS NEED NOT BE BACKED BY FRAMING. HORZ. EDGE JNTS AND HORZ. BUTT JNTS ON OPPOSITE SIDES OF STL STUDS NEED NOT BE STAGGERED. PANELS ATTACHED TO STL STUDS AND FL RUNNER WITH 1-1/4 IN. LONG TYPE S STL SCREWS SPACED 8 IN. O.C. WHEN APPLIED HORZ., OR 8 IN. O.C. ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. O.C. IN THE FIELD WHEN APPLIED VERT., WHEN USED IN WIDTH OTHER THAN 48 IN., GYP PANELS TO BE INSTALLED HORZ., UNITED STATES GYP COMPANY - 5/8" SHEETROCK BRAND FIRECODE CORE GYP PANELS
  4. FIBER, DRY - DRY DENSE PACKED CELLULOSE MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOM. DRY DENSITY OF 3LBS./FT3.
  5. JOINT TAPE AND COMPOUND - (NOT SHOWN) VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOISTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JNTS.
  6. LATERAL BRACING - (NOT SHOWN) - RIGHT ANGLE-SHAPED, SUPPLIED WITH NOTCHES SPACED 12, 18, OR 24 IN. O.C. FRICTION-FITTED TO THE CUT-OUTS IN THE STL STUDS, SUPPLIED IN 7/8 IN. BY 7/8 IN. BY 50 IN. LENGTHS. LATERAL BRACING BARS FABRICATED FROM MIN. 20 MSG GALV. STL. THE BRACING SHALL MEET THE 1996 EDITION OF THE AMERICAN IRON AND STL INSTITUTE (AISI) SPECIFICATION FOR THE DESIGN OF COLD-FORMED STL STRUCTURAL MEMBERS.
  7. MESH NETTING - (NOT SHOWN) - ANY THIN WOVEN OR NON-WOVEN FIBROUS NETTING MATERIAL ATTACHED WITH STAPLES TO THE OUTER FACE OF ONE ROW OF STUDS TO FACILITATE THE INSTALLATION OF THE SPRAYED FIBER FROM THE OPPOSITE ROW.
  8. .
  9. .
  10. .
  11. SCHEDULED BASE - SEE FINISH SCHEDULE
  12. UNDERSIDE OF STRUCTURE
  13. TOP OF STRUCTURE

NOTE: HORIZONTAL BLOCKING AT 4'-0" O.C. TO PREVENT INSULATION FROM SETTLING.

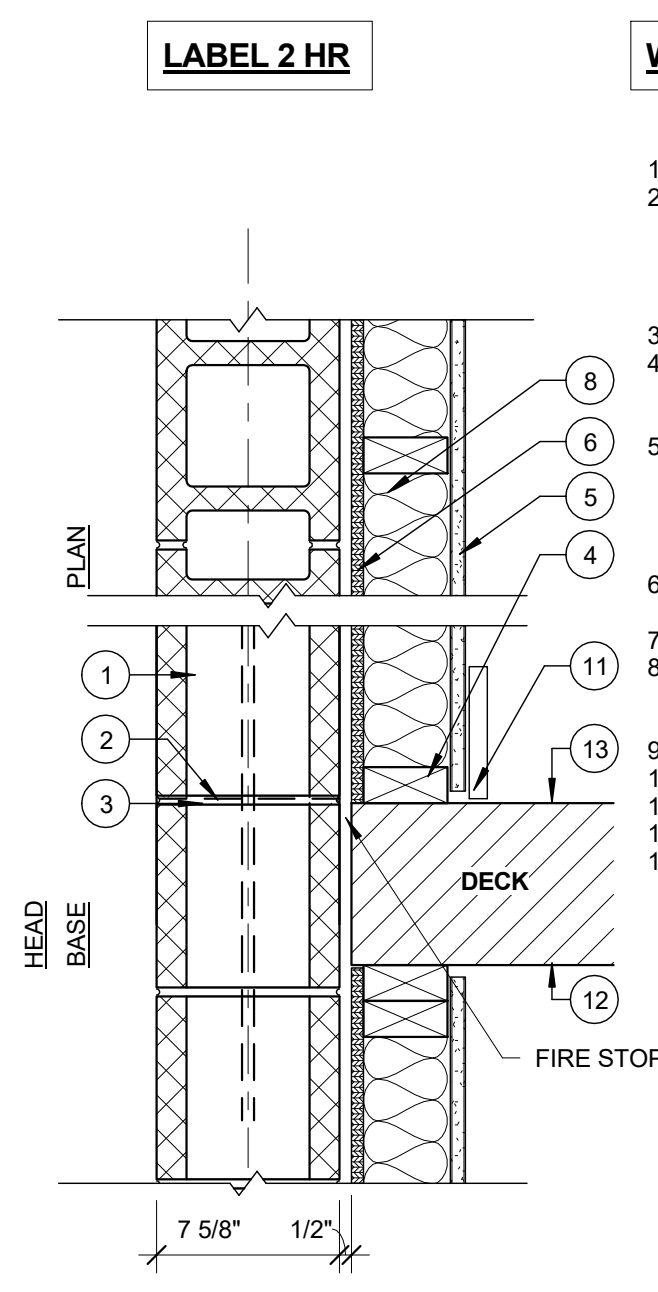
**16** WALL TYPE 16 - WD STD - DEMISING - 1'-1 1/4"  
1 1/2" = 1'-0"



- W14 1 HR BEARING FIRE BARRIER**  
DESIGN NUMBER - GA FILE NO. WP3240 1 HOUR FIRE  
58 STC SOUND  
FIRE TEST: UL R1319-93, 94, 129; ACOUSTIC LABORATORIES, NU-WOOL CO.
1. WOOD FRAMING - WOOD STUDS, NOM. 2 IN BY 4 IN., DOUBLE TOP PLATE AND SINGLE BASE PLATE, SEE STRUCTURAL FOR STUD LAYOUT BRACING, AND FASTENERS.
  2. LOCATION OF SHEAR WALL SHEATHING - ONLY REQUIRED AT SHEARWALLS, SEE STRUCTURAL FOR REQUIREMENTS
  3. RESILIENT CHANNEL - 25 MSG GALV. STEEL RESILIENT CHANNELS SPACED VERTICALLY 24 IN O.C. MAX. FLANGE PORTION ATTACHED TO EACH INTERSECTING STUD WITH 1/2 IN. LONG TYPE S-12 PANHEAD STEEL SCREW.
  4. FIBER, DRY - DRY DENSE PACKED CELLULOSE MATERIAL. INSULATION IS APPLIED DRY AND DENSE PACKED INTO CAVITY. GYPSUM PANELS ARE INSTALLED ON BOTH FACES OF THE WALL FIRST WITH A GAP LEFT AT THE TOP OF EACH STUD BAY TO BE FILLED AFTER INSTALLATION. TESTING WILL BE PERFORMED TO ENSURE PROPER DENSITY AND THAT ENTIRE CAVITY IS FILLED, ESP. AROUND AND BELOW ELECTRICAL BOXES AND SWITCHES, ETC.
  5. TYPE X GYP BOARD - NOM. 5/8 IN. THICK, 4 FT. WIDE, GYP BOARD PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERT. OR HORZ. SINGLE LAYER INSTALLED ON EA. SIDE OF STL STUDS. VERTICAL JNTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. HORZ. EDGE JNTS AND HORZ. BUTT JNTS NEED NOT BE BACKED BY FRAMING. HORZ. EDGE JNTS AND HORZ. BUTT JNTS ON OPPOSITE SIDES OF STL STUDS NEED NOT BE STAGGERED. PANELS ATTACHED TO STL STUDS AND FL RUNNER WITH 1 IN. LONG TYPE S STL SCREWS SPACED 8 IN. O.C. WHEN APPLIED HORZ., OR 8 IN. O.C. ALONG VERT. AND BOTTOM EDGES AND 12 IN. O.C. IN THE FIELD WHEN APPLIED VERT., WHEN USED IN WIDTH OTHER THAN 48 IN., GYP PANELS TO BE INSTALLED HORZ., UNITED STATES GYP COMPANY - 5/8" SHEETROCK BRAND FIRECODE CORE GYP PANELS
  6. JOINT TAPE AND COMPOUND - (NOT SHOWN) VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOISTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JNTS.
  7. SEALANT - UL AND STC LISTED SEALANT, FULL PERIMETER BOTH SIDES.
  8. BLOCKING - (NOT SHOWN) WOOD BLOCKING AS NEEDED
  9. TAPE AND COMPOUND - (NOT SHOWN) VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN TWO COATS TO JOISTS AND SCREW HEADS, PAPER TAPE, 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
  10. .
  11. .
  12. SCHEDULED BASE - SEE FINISH SCHEDULE
  13. UNDERSIDE OF STRUCTURE
  14. TOP OF STRUCTURE

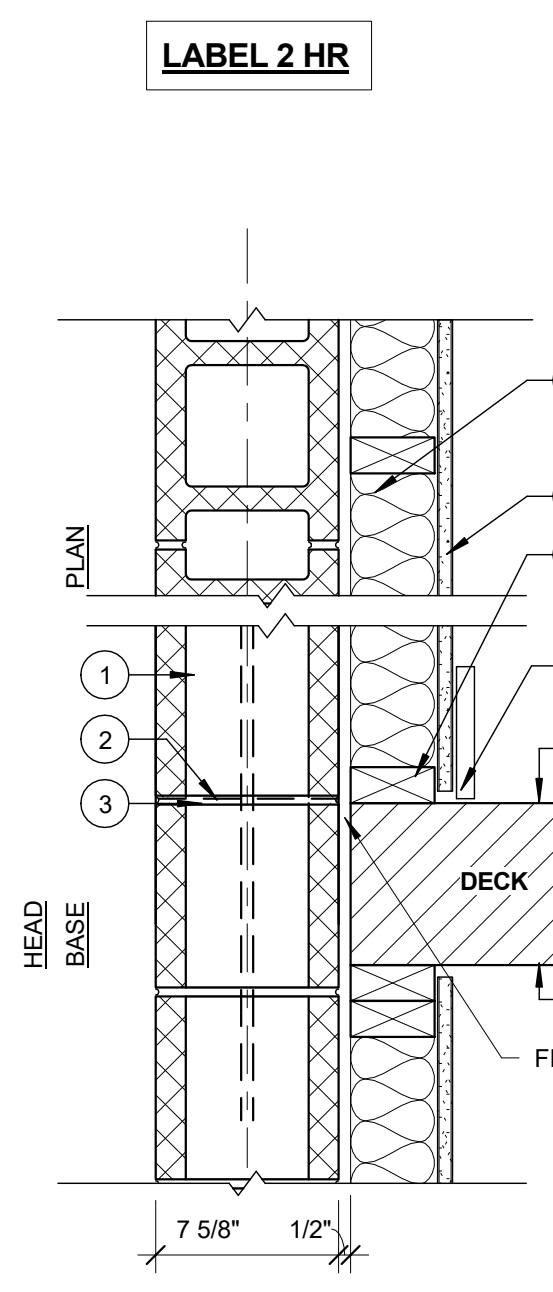
NOTE: MAX. 1" SCREWS SECURING GYP BD TO RESILIENT CHANNELS TO PREVENT SCREWS FROM TOUCHING STUDS & SHORT-CIRCUITING RESILIENT CHANNEL

**14** WALL TYPE 14 - WD STD - CORR - 7 3/4"  
1 1/2" = 1'-0"



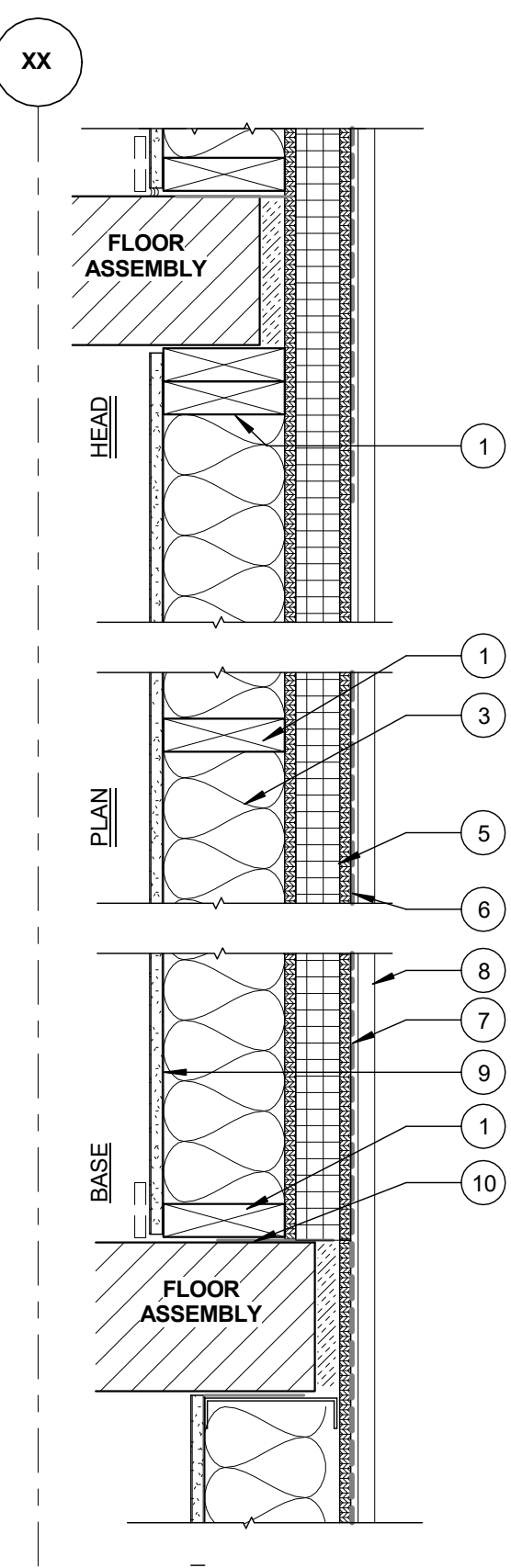
- W17 2 HR BEARING FIRE BARRIER**  
DESIGN NUMBER - UL - U905  
STC SOUND - RAL-TL-11-078
1. CONCRETE BLOCKS - CLASSIFICATION D-2 (2HR) 8" NOM. THICKNESS.
  2. MORTAR - BLOCKS LAID IN A FULL BED OF MORTAR, NOM. 3/8 IN THICK, OF NOT LESS THAN 2 1/4 AND NOT MORE THAN 3 1/2 PARTS CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME), VERTICAL JOINTS STAGGERED.
  3. REINFORCING - SEE STRUCTURAL DRAWINGS
  4. WOOD STUDS - (ADDED) - Nom. 2 x 6 IN SPACED 16IN OR 24 IN O.C. w/ (2) 2 x 6 IN. TOP PLATE AND (1) 2 x 6 IN. BOTTOM PLATE. SEE STRUCTURAL FOR SPACING
  5. GYPSUM BOARD - (ADDED) - 5/8 IN. THICK, 4 FT WIDE ATTACHED TO METAL STUDS WITH TYPE S STEEL SCREWS SPACED 8 IN. O.C. ALONG EDGES OF BOARD AND 12 IN. O.C. IN THE FIELD OF THE BOARD. JNTS. ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF ASSEMBLY 48 IN. O.C.
  6. OSB SHEATHING - (1) LAYER OF 7/16 OSB SINGLE SIDE. SEE STRUC.PLAN.
  7. .
  8. SOUND ATTENUATION BATT (STC 35) - FIBERGLASS BATT WITH UL CLASS AS TO SURF. BURNING CHARACTERISTICS AND OR FIRE RESISTANCE REQUIRED
  9. .
  10. .
  11. .
  12. BASE - SEE FINISH SCHEDULE
  13. UNDERSIDE OF STRUCTURE

**17** WALL TYPE 17 - CMU SHAFT AT SHEAR WALL  
1 1/2" = 1'-0"



- W15 2 HR BEARING FIRE BARRIER**  
DESIGN NUMBER - UL - U905  
STC SOUND - RAL-TL-11-078
1. CONCRETE BLOCKS - CLASSIFICATION D-2 (2HR) 8" NOM. THICKNESS.
  2. MORTAR - BLOCKS LAID IN A FULL BED OF MORTAR, NOM. 3/8 IN THICK, OF NOT LESS THAN 2 1/4 AND NOT MORE THAN 3 1/2 PARTS CLEAN SHARP SAND TO 1 PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAN 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME), VERTICAL JOINTS STAGGERED.
  3. REINFORCING - SEE STRUCTURAL DRAWINGS
  4. WOOD STUDS - (ADDED) - Nom. 2 x 6 IN SPACED 16IN OR 24 IN O.C. w/ (2) 2 x 6 IN. TOP PLATE AND (1) 2 x 6 IN. BOTTOM PLATE. SEE STRUCTURAL FOR SPACING.
  5. GYPSUM BOARD - (ADDED) - 5/8 IN. THICK, 4 FT WIDE ATTACHED TO METAL STUDS WITH TYPE S STEEL SCREWS SPACED 8 IN. O.C. ALONG EDGES OF BOARD AND 12 IN. O.C. IN THE FIELD OF THE BOARD. JNTS. ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF ASSEMBLY 48 IN. O.C.
  6. .
  7. .
  8. SOUND ATTENUATION BATT (STC 35) - FIBERGLASS BATT WITH UL CLASS AS TO SURFACE BURNING CHARACTERISTICS AND OR FIRE RESISTANCE REQUIRED
  9. .
  10. .
  11. .
  12. BASE - SEE FINISH SCHEDULE
  13. UNDERSIDE OF STRUCTURE

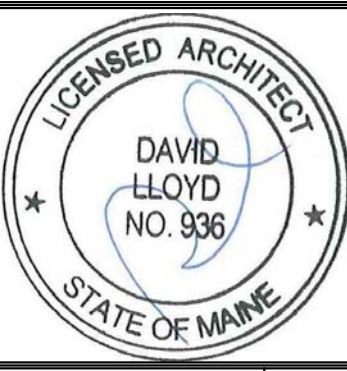
**15** WALL TYPE 15 - CMU SHAFT AT LOADBEARING WALL  
1 1/2" = 1'-0"



- W13 NON-BEARING, 1HR-RATED EXTERIOR WALL**  
Design No. U356, STC SOUND - N/A
1. WOOD FRAMING - PRESSURE TREATED, FIRE RETARDANT WOOD STUDS, NOM. 2 IN BY 6 IN., DOUBLE TOP PLATE AND SINGLE BASE PLATE, EFFECTIVELY FIRE-STOPPED SEE STRUCTURAL FOR STUD LAYOUT BRACING, AND FASTENERS.
  2. .
  3. BATT INSULATION - R21 FIBER GLASS BATT INSULATION PACKED TIGHT INTO WALL CAVITY
  4. .
  5. PREFABRICATED INSULATED SHEAR PANEL - BASIS OF DESIGN: HUNTER PANELS XGI PLY - 2" POLYISOCYANURATE ADHERED TO 5/8" THICK FIRE-RATED CDX FIR PLYWOOD SHEATHING. MECHANICALLY FASTEN PANEL TO STUDS 6" O.C. ALONG THE PERIMETER AND 12" O.C. TO STUDS WITHIN THE FIELD OF THE PANEL, WITH 4" #8 SCREWS HI-LOW TREADED w/ CLIMACOAT.
  6. AIRMOISTURE BARRIER - BUILDING WRAP - REFER TO SPECIFICATION.
  7. PLASTIC FURRING STRIPS - CORVANT S/S FURRING SYSTEM. LOCATE STURDI STRIP VERTICAL STRAPPING CENTERED ON STUDS. ATTACH WITH 1 3/4" LONG CORROSION RESISTANT ROOFING NAILS AS DIRECTED BY MANUFACTURER
  8. FIBER CEMENT SIDING - FIBER CEMENT PANELS (SEE ELEVATIONS), FIBER CEMENT PANELS INSTALLED W/ ALUM. EXTRUSION EXPOSED JOINTS (FRY REGLET); SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
  9. GYPSUM BOARD - (1) LAYER 5/8" TYPE X GYP. BD. APPLIED VERTICALLY. NAILED TO WOOD STUDS AND BEARING PLATES 6 IN. OC WITH 6d CEMENT COATED NAILS, 1-7/8 IN. LONG, 0.0915 IN. SHANK DIAM. AND 1/4 IN. DIAM. HEAD.
  10. BED OF SEALANT - AT ALL BOTTOM PLATES IN CONTACT WITH CONC. SLAB

SEE EXT. DETAILS FOR THRU FLASHING, ACCESSORIES, AND DETAILS

**13** WALL 13 - EXT. WALL - FCB - LV 2-6 - NON BEARING - 1HR RATED  
1 1/2" = 1'-0"



Prepared For:  
**NewHeight Group**  
118 Congress Street, Unit 401  
Portland, Maine

Consultant:  
**ARCHITYPE architects**  
48 Union Wharf Portland, Maine 04101  
(207) 772-0022 ARCHITYPE@ARCHITYPEA.COM

Architect:  
**LUMINATO**  
167 Newbury Street Portland, Maine

Project:  
**WALL TYPES**

Revisions:  
Scale: 1 1/2" = 1'-0"  
Date: JULY 21, 2016

**A4.03**