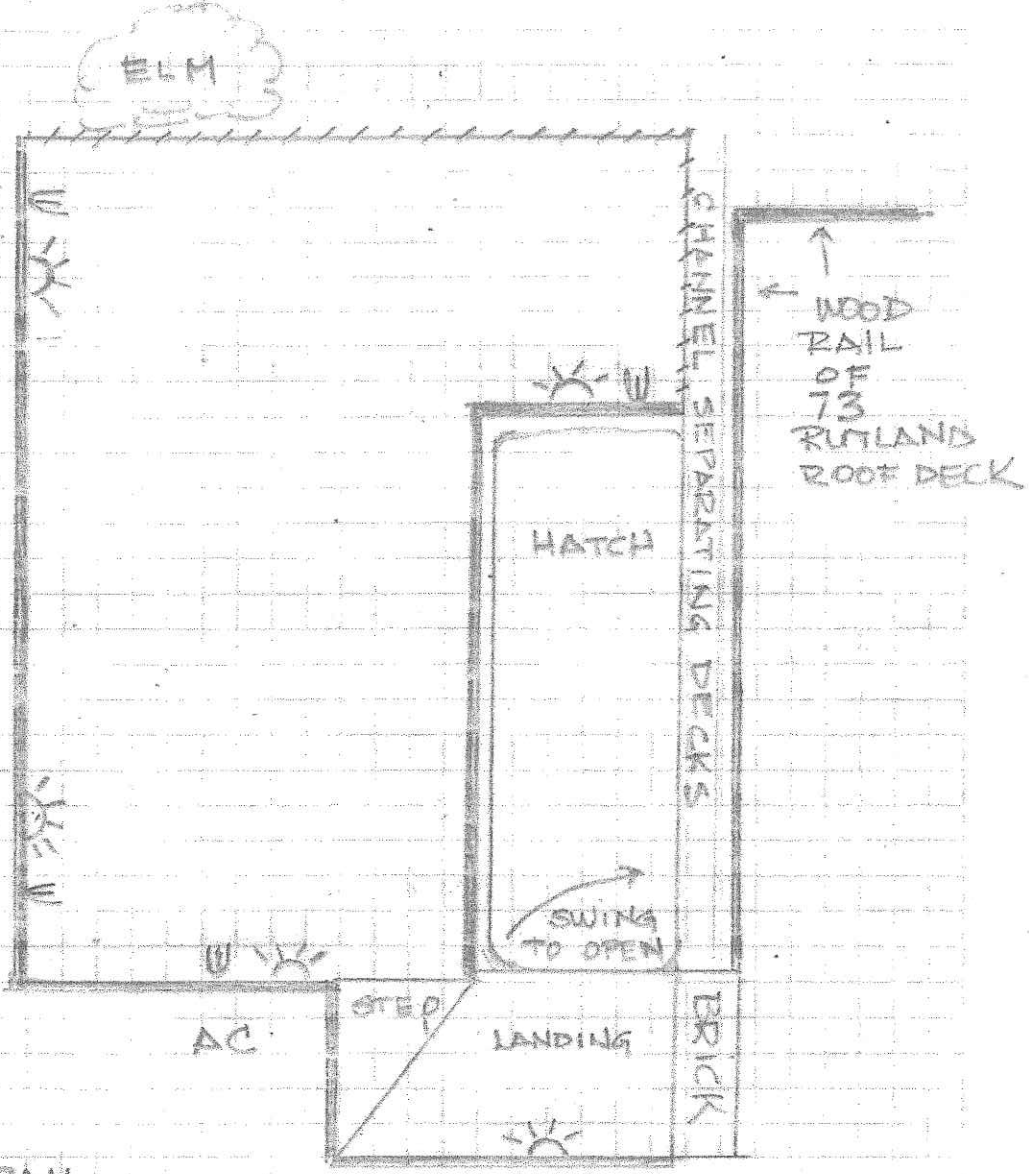


SILVA ROOF DECK
71 RUTLAND APT 4

RUTLAND ST.



— WOOD RAIL

— IRON RAIL

X = WALL SCOUSE (5)

U = ELECTRICAL OUTLET (4)

BACK ALLEY

NOT IN SCALE!

GENERAL NOTES

- 1. THE SCOPE OF THESE PLANS IS LIMITED TO THE STRUCTURAL REQUIREMENTS TO REBUILD THE FIRE-DAMAGED ROOF DECK IN KIND AND ANCHORAGE, ELECTRICAL, AND MECHANICAL (PLUMBING AND HVAC) REQUIREMENTS IF ANY ARE NOT ADDRESSED IN THESE PLANS.
2. IT IS THE INTENT OF THE ENGINEER OF RECORD (ENGINEER) THAT THIS WORK BE PERFORMED IN CONFORMANCE WITH ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT OF CONSTRUCTION AND OCCUPANCY.
3. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITIONS (UNLESS NOTED OTHERWISE) OF THE FOLLOWING BUILDING CODES AND STANDARDS:
A. THE EIGHTH EDITION OF THE MASSACHUSETTS BUILDING CODE AND AMENDMENTS TO THE 2003 INTERNATIONAL BUILDING CODE AND 2009 INTERNATIONAL EXISTING BUILDING CODE (IBC)
B. "AISC" - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2005 EDITION.
4. ALL EXISTING INFORMATION ON THE CONTRACT DRAWINGS SUCH AS DIMENSIONAL SIZES, ELEVATIONS, ETC. SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. IF DISCREPANCIES ARE FOUND OR ANY CONDITIONS ARE DISCOVERED WHICH ARE NOT CONSISTENT WITH THE STRUCTURAL DRAWINGS OR ARE STRUCTURALLY INADEQUATE, THE CONTRACTOR SHALL SEEK APPROVAL OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
5. PRIOR TO REMOVAL OF EXISTING STRUCTURAL ELEMENTS, THE CONTRACTOR SHALL EXPLORE THE EXISTING FRAMING FOR PROTECTION AND VERIFICATION. ANY DISCREPANCIES WILL BE ADDRESSED BY THE ENGINEER PRIOR TO CONTINUING WITH THE AFFECTED WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHOD OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE PROGRESS, SEQUENCE, AND TEMPORARY BRACING AS TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL SUPPLY, LOCATE, AND BUILD UPON THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, GYPSUM, SILICES, HANGERS, RAIL DEPRESSORS, OR OTHER COMPONENTS AS MAY BE REQUIRED TO ATTACH AND ADJOINING OTHER WORK.
8. ALL DETAILS AND SECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSIDERED TO APPLY TO ANY SIMILAR SITUATION UNLESS SHOWN OTHERWISE BY THE WORK EXCEPT WHERE INDICATED OTHERWISE.
9. REFER TO THE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DETAILS AND SECTIONS. THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION IN CASES OF CONFLICT BETWEEN THE STRUCTURAL DRAWINGS AND ANY DRAWINGS PREPARED BY OTHERS PRIOR TO COMMENCING WORK.

DESIGN LOADS

- 1. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND/OR MORE RESTRICTIVE REQUIREMENTS FOR LOADS AS GIVEN BELOW UNLESS SPECIFIC AREAS OF THE DRAWINGS INDICATE DIFFERENT LOADING CRITERIA.
2. ROOF LOADS:
A. ROOF DEAD LOAD: 15 PSF
B. DECK AND STRUCTURE: ACTUAL WEIGHT OF MATERIALS
C. ROOF LIVE LOAD: 20 PSF
D. ROOF TRUCK LIVE LOAD: 40 PSF
E. FLEET ROOF SNOW LOAD: 30 PSF + SNOW (Ps = 40 PSF, Ls = 1.0, Cs = 1.0)
F. DISPERSED ROOF SNOW LOAD: Ps = 20 PSF + SNOW (Ps = 40 PSF, Cs = 1.0, Cs = 1.0, Cs = 0.85)
3. DESIGN CRITERIA:
A. WIND DESIGN:
B. BASIC WIND SPEED: V = 105 MPH
C. OCCUPANCY CATEGORY: II
D. WIND EXPOSURE FACTOR: E = I
E. WIND EXPOSURE: II
4. DEFLECTION CRITERIA:
A. ROOF FRAMING:
LIVE LOAD: L/360
TOTAL LOAD: L/240

MASSING

- 1. MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE IBC 2009 AND IBC 2009/ASD/SEI/TMS 402 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
2. MORTAR SHALL CONFORM TO ASTM C270, TYPE S WITH 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI, TESTED PER ASTM C780. ALL MASONRY BELOW GRADE SHALL HAVE MORTAR CONFORMING TO TYPE N WITH 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI. MASONRY CEMENT, PRE-MIXED MORTAR AND RETARDANT ADDITIVES SHALL NOT BE USED.
3. BRICK SHALL CONFORM TO ASTM C476, FINE OR COARSE COURSE, WITH 28 DAY COMPRESSIVE STRENGTH OF 2200 PSI. COURSE SHALL BE FREE OF FLY ASH AND CHROME.
4. FOR COOL WEATHER AND HOT WEATHER CONSTRUCTION AND PROTECTION REQUIREMENTS COMPLY WITH ALL REQUIREMENTS OF IBC 2009/ASD/SEI/TMS 402 SPECIFICATIONS FOR MASONRY STRUCTURES.

STRUCTURAL STEEL

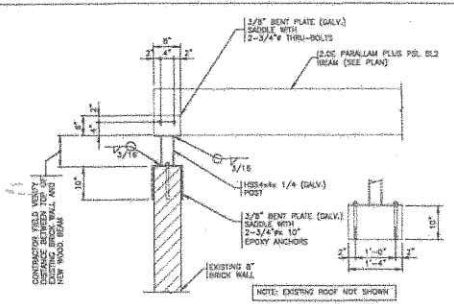
- 1. STRUCTURAL STEEL CONNECTION SHALL CONFORM WITH THE LATEST AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND 309 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" INCLUDING COMMENTARY, AND APPLICABLE PROVISIONS OF AISC 311 "STRUCTURAL WELDING CODE".
2. WELDED CONNECTIONS ARE NOT FULLY DETAIL IN DRAWINGS INCLUDE ALL STEEL-TO-STEEL CONNECTIONS AND STEEL-TO-STEEL PORTION OF ALL CONNECTIONS TO OTHER MATERIALS. DESIGN CONNECTIONS FOR SPECIAL FORCES WHERE SHOWN ON THE DRAWINGS. WHERE SPECIAL FORCES ARE NOT SHOWN DESIGN SHALL BE FOR MANNER CONDITIONS BASED ON CAPACITY OF CONNECTING MEMBERS.
3. STRUCTURAL STEEL ANGLE PLATES, AND BARS SHALL BE ASTM A36. STRUCTURAL SQUARE OR RECTANGULAR TUBE SHAPES SHALL BE ASTM A500, GRADE B (7" x 4" x .045).
4. BOLTS SHALL BE ASTM A500. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO THE SPECIFICATION CONDITION AS SET FORTH BY AISC UNLESS NOTED OTHERWISE.
5. ANCHOR BOLTS AND PLAN HANGER BOLTS AND ANCHORS SHALL BE ASTM A36 OR A500, GRADE A.
6. BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS.
7. WELDING ELECTRODES SHALL CONFORM TO AWS D1.1, GRADE E70XX. EGG BEARERS ELECTRODES SHALL BE USED FOR NEW AND REPAIRING WORK. ALL WELDING SHALL BE DONE BY WELDERS HOLDING VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY AND HAVING CURRENT CERTIFICATE IN TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTICED BY THE AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS OR FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS. ALL WELDING SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.
8. BEAMS, COLUMNS AND BRACKETS SHALL NOT BE SPICED WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER.
9. CORNER CHAINS FOR COLUMN BASE PLATES AND BEARING PLATES SHALL BE NONWELDABLE STEEL OR ALUMINUM WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.
10. ALL STEEL EXPOSED TO THE EXTERIOR SHALL BE HOT-DIPPED GALVANIZED.

WOOD NOTES

- 1. ALL STRUCTURAL LUMBER SHALL CONFORM TO THE LATEST EDITION OF THE NFPA "NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION" AND SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION", 2005 EDITION.
2. UNLESS NOTED OTHERWISE, ALL WOOD FRAMING EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED (PRESERVATIVE PERIOD NO. 2 OR BETTER).
3. ALL BRACING SHALL BE IN ACCORDANCE WITH TABLE 6-01.1(A) OF THE 2009 INTERNATIONAL BUILDING CODE (IBC), UNLESS OTHERWISE NOTED.
4. ALL CONNECTIONS SHALL CONFORM TO THE CURRENT EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AND THE CONTRACT DOCUMENTS.
5. ALL STRUCTURAL LUMBER SHALL BE STARTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF WOOD CONSTRUCTORS' "CONSTRUCTION MANUAL".
6. DO NOT NOTCH, DRILL OR SPLICE JOISTS, BEAMS OR LOAD BEARING OR STRUCTURAL STUDS WITHOUT THE APPROVAL OF STRUCTURAL ENGINEER.
7. ALL NAIL JOISTS OR JOIST HANGERS AND MISCELLANEOUS FRAMING MEMBERS SHALL BE FILLED WITH WOOD OF THE LARGEST SIZE SHOWN IN THE MANUFACTURER'S LATEST CATALOG, ALL HANGERS OR CONNECTIONS IN CONTACT WITH PRESERVATIVE TREATED LUMBER OR WOOD EXPOSED TO WEATHER SHALL BE DRY OR HCC COATED PER SMPSION SPECIFICATIONS.
8. WOOD AND ASSOCIATED MATERIALS SHALL BE AS FOLLOWS:
A. PARALLEL STRAND LUMBER (PSL) (PUL PSL): Fv=1.827kn; Fv=187kn; Fv=1.500kn; L=1.500kn/0.000kn
B. NAILS: SMOOTH-CROWN, BOX OR DEFORMED SHANKS WITH MINIMUM ALLOWING REMOVING WELD STITCHINGS AS SHOWN. 8D 16S FOR SHANK DIAMETER UP TO 0.937 INCH (25mm); COMMON NAIL, 16S FOR SHANK DIAMETERS LARGER THAN 0.937 INCH (25mm) BUT NOT LARGER THAN 1.125 INCH, AND 10D 16S FOR SHANK DIAMETERS UP TO 0.937 INCH OR LESS.
C. ANCHOR BOLTS: ASTM A307 GALVANIZED.
D. CONNECTIONS: SMPSION STRONG-TIE (S) GALVANIZED (S) FIVE FOOT ANCHORS, HALF WELD OR EQUAL.
E. GULF: STRUCTURAL GRADE ADHESIVE (WATERPROOF)

COORDINATION

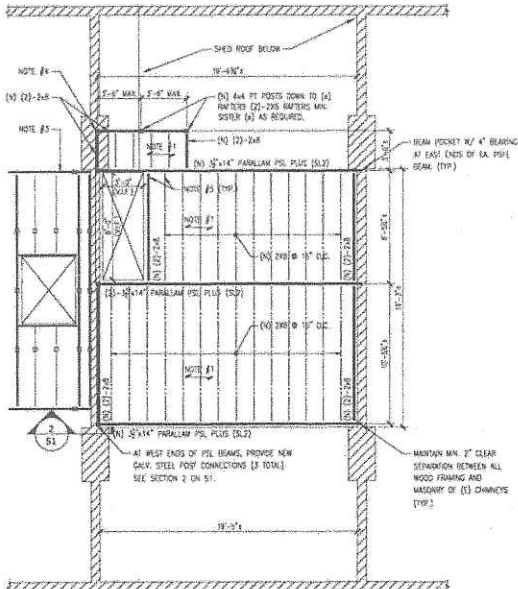
- 1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING OF LOADS UP TO CONSTRUCTION EQUIPMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING OPERATIONS UP TO THE JOB OF THE STRUCTURAL ENGINEER SHALL INCLUDE INSTRUCTION OF THE ABOVE ITEMS. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, NOR WILL THE STRUCTURAL ENGINEER BE RESPONSIBLE FOR CONSTRUCTION SITE SAFETY, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES AND DISCREPANCIES SHALL BE RESOLVED WITH THE ENGINEER PRIOR TO CONSTRUCTION AND PRIOR TO PROCEEDING. DO NOT USE SCALED DIMENSIONS. WHEN ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATEST REQUIREMENTS SHALL CONTROL. WHERE NO SPECIFIC DETAIL IS SHOWN, CONSTRUCTION SHALL CONFORM TO USUARY WORK ON THE PROJECT.
3. NOT ALL OPENINGS, BLOCKHOLES, INSERTS, CURBS, PITS, PIPING, ELECTRICAL, EQUIPMENT OR SERVICE TRENCH AND DIMENSIONS PERTAINING THERETO ARE SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS WHERE APPLICABLE. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OTHER DISCIPLINES AND THE SUBCONTRACTORS AND EQUIPMENT SUPPLIER/MANUFACTURERS. EQUIPMENT BEING SUPPORTED BY OR SUPPORTED FROM THE STRUCTURE SHALL BE COORDINATED WITH THE MANUFACTURER OF ANY PRE-ENGINEERED FRAMING OR COMPONENTS. WHERE EQUIPMENT WEIGHT IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, VERIFY ACTUAL WEIGHT AND PROVIDE TO STRUCTURAL ENGINEER FOR CONVEYANCE OF THE STRUCTURE'S CAPACITY. ALL OPENINGS SHALL BE PROPERLY REINFORCED AS APPROVED BY THE ENGINEER.
4. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FINISHED FLOORS OR ROOFS SO AS NOT TO EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
5. ALL PRE-ENGINEERED/ASSEMBLED ITEMS AND MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND ALTERNATING ARE ALLOWED ONLY WITH WRITTEN PERMISSION FROM THE MANUFACTURER. THIRD PARTY ENGINEER'S STAMP MAY BE REQUIRED.
6. ALL DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICAL DETAILS MAY OR MAY NOT BE CUT IN THE DRAWINGS, AND DETAILS MAY OR MAY NOT BE CUT IN ALL SPECIFIC LOCATIONS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.
7. FOR CLARITY, ALL EXISTING ROOF FLOOR AND WALL OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, REFER TO FIELD.



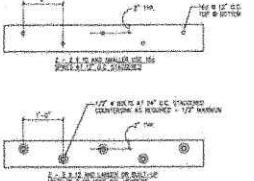
NEW WOOD BEAM CONNECTION TO EXISTING BRICK WALL. SCALE: 3/4" = 1'-0"

PLAN NOTES

- 1. SECTION - INDICATES DIRECTION OF SPAN OF NEW 2x PLANK.
2. INDICATES ESTIMATED EXISTING DIMENSIONS, ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL COORDINATE THE EXTENTS OF THE NEW DECK WITH THE MECHANICAL SERVICES AT THE ADJACENT PROPERTIES TO AVOID CONFLICTS BETWEEN THE STRUCTURES.
4. HEDGE KIM (K) POST DOWN TO PARTY WALL AT PARTIALLY REMOVED AND APPROVED DRAWING (D13). SET POST ON SMPSION STRONG-TIE HANGER WITH EX EXTERIOR ANCHOR SET 4" INTO TOP OF SOLID AND SOUND BRICK MASONRY.
5. AT EACH END OF JOIST, PROVIDE COMMON STRONG-TIE (LESTER JOIST HANGERS). AT EACH END OF (1)-2x6 BEAMS PROVIDE LUGS-D HANGERS.



ROOF DECK PLAN. SCALE: 1/8" = 1'-0"



BUILT-UP WOOD MEMBERS. SCALE: 3/4" = 1'-0"



ROOF DECK FRAMING PLAN AND DETAILS

71 RUTLAND STREET BOSTON, MA 02118

Table with columns for revision, date, and description. It lists several revisions to the drawing.

S1