FACADE REPLACEMENT & ADDITION - PORTSMOUTH CITY HALL

OWNER:

CITY OF PORTSMOUTH

1 Junkins Avenue Portsmouth, NH 03801

ARCHITECT:

Lavallee Brensinger Architects

155 Dow Street, Suite 400 Manchester, NH 03101 603.622.5450 www.LBPA.com

CIVIL ENGINEER:

Tighe & Bond, Inc

177 Cororate Drive Portsmouth, NH 03801 603-433-8818 www.tighebond.com

STRUCTURAL ENGINEER:

Becker Structural Engineers

75 Yourk Street Portland, Maine 04101 207-879-1838 www.beckerstructural.com

MECHANICAL / ELECTRICAL / PLUMBING / FIRE **PROTECTION**

Allied Engineering Inc.

160 Veranda Street Portland, Maine 04103 207-221-2260 www.allied-eng.com

FOR ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.

DRAWING LIST - ARCHITECTURAL

EXISTING CONDITIONS / DEMOLITION PLAN SITE PLAN

DETAIL SHEET

0-Demo AD1.0 BASEMENT LEVEL DEMOLITION PLAN AD1.1 LEVEL 1 DEMOLITION PLAN AD1.2 LEVEL 2 DEMOLITION PLAN AD1.3 LEVEL 3 DEMOLITION PLAN LEVEL 4 DEMOLITION PLAN AD1.4 AD1.5 LEVEL - ROOF DEMOLITION PLAN AD2.1 **EXTERIOR ELEVATONS - DEMOLITION**

1-New Construction

AD2.2

C-501

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EXTERIOR ELEVATIONS - DEMOLITION

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A3.3 **WALL SECTIONS & DETAILS** A3.4 WALL SECTIONS **WALL SECTIONS & DETAILS** WALL SECTIONS & DETAILS A3.6 A3.7 WALL SECTION DETAILS A4.1 **ENLARGED PLANS - PD LOBBY** PLAN DETAILS A5.1

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S1.2 EXTERIOR ELEVATIONS S1.3 **EXTERIOR ELEVATIONS** S3.1 FRAMING SECTIONS & DETAILS S3.2 FRAMING SECTIONS & DETAILS

DRAWING LIST - MECHANICAL

M-101 **HVAC Elevations** M-201

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Enlarged PD Entrance HVAC Plans

DRAWING LIST - ELECTRICAL

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ENLARGED PD ENTRANCE ELECTRICAL REMOVALS, LIGHTING, POWER, AND SYSTEMS PLANS

CITY OF PORTSMOUTH

REFERENCE PLANS:

1. "SITE PLAN & SURVEY SURVEY PLAN" PREPARED BY THE RITCHIE

CITY OF PORTSMOUTH DPW ON JANUARY 30, 2016.

- ORGANIZATION, DATED DECEMBER 16, 1975.

 2. "NORTH FACADE REPLACEMENT DESIGN PD ENTRANCE DEMO" PREPARED BY LAVALLEE BRENSINGER ARCHITECTS, DATED NOVEMBER 14, 2016.
- "CITY HALL NORTH BUILDING FACADE REPLACEMENT" SHEET A1.1, PREPARED BY LAVALLEE BRENSINGER ARCHITECTS, DATED FEBRUARY 17, 2017.
 "EXISTING CONDITIONS" PREPARED BY CITY OF PORTSMOUTH PUBLIC WORKS,
- DATED NOVEMBER 15, 2016.

 5. SKETCH OF DRAINS, SPOT GRADES AND OTHER UTILITIES PROVIDED BY THE

GENERAL NOTES:

- 1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR OR PROFESSIONAL ENGINEER TO DETERMINE ALL LINES AND GRADES.
 THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES AND COMPLY WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.

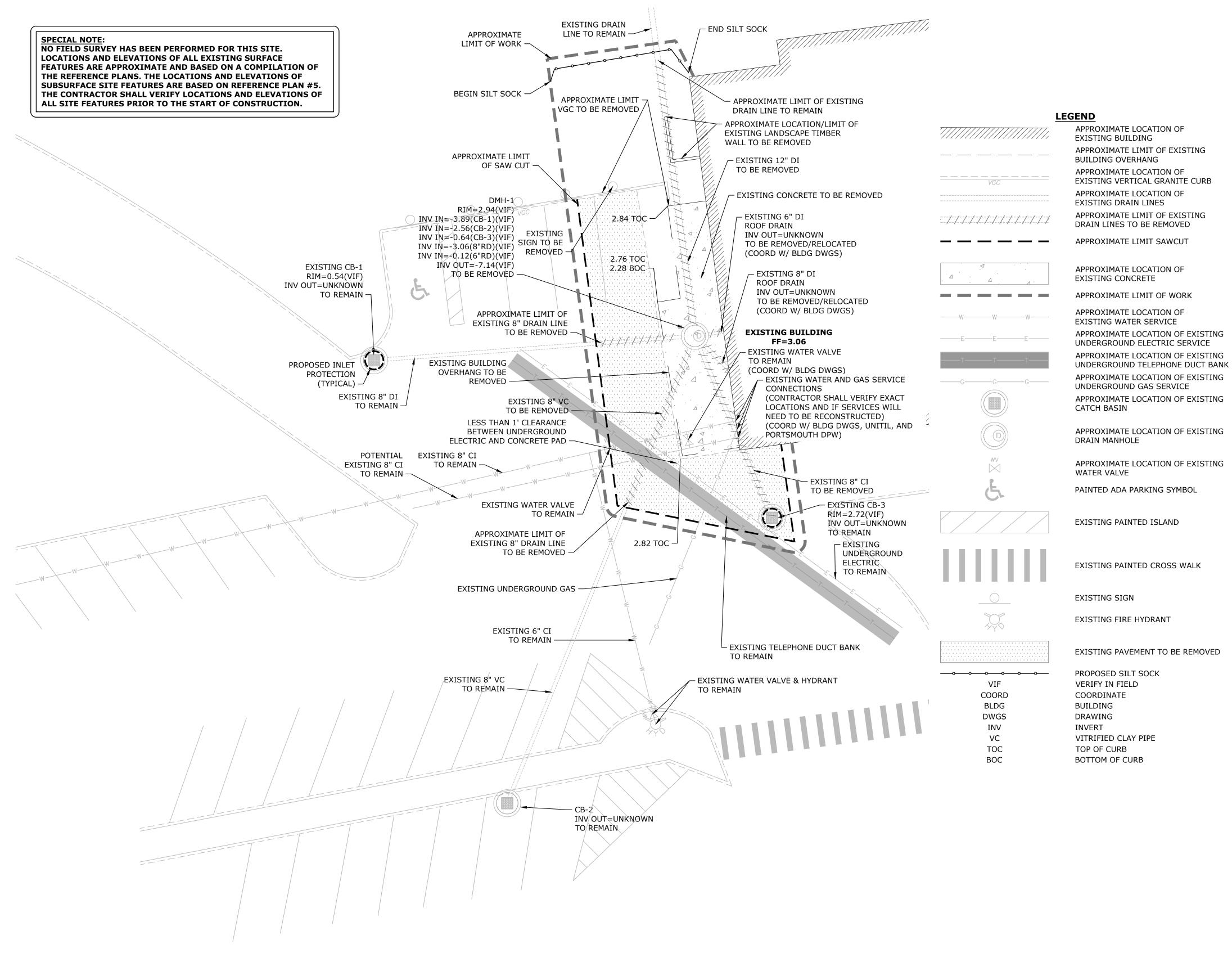
 5. THE CONTRACTOR SHALL OBTAIN AND PAY FOR AND COMPLY WITH
- 5. THE CONTRACTOR SHALL OBTAIN AND PAY FOR AND COMPLY WITH ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
- 6. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO CITY HALL THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES AND SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.
- 7. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
- 8. CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCH BASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

DEMOLITION NOTES:

- 1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
- 2. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.

 3. COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF LITTLITIES.
- COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
 ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY
- CONSTRUCTION/ DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 5. SAW CUT AND REMOVE PAVEMENT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
- 7. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK UNLESS OTHERWISE NOTED. CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY IS ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
- 8. PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE.
 ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE
 CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF
 PAVEMENT REMOVAL PRIOR TO BID.
- 9. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, UTILITIES AND PAVEMENT WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO: CONCRETE, PAVEMENT, CURBS, MANHOLES, UNDER GROUND PIPING, SIGNS, RAMPS, WALLS, BUILDING SLABS, FOUNDATION, TREES AND LANDSCAPING.
- 10. PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS WITHIN CONSTRUCTION LIMITS AS WELL AS CATCH BASINS/CURB INLETS THAT MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INLET PROTECTION BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE "HIGH FLOW SILT SACK" BY ACF ENVIRONMENTAL OR EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN EVENT OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED OR SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE BARRIER.
- 11. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE
- 12. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
- 13. THE CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING GRANITE CURB FOR REUSE.

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PATRICK OF THE CRIMMINS No. 12378

No. 12378

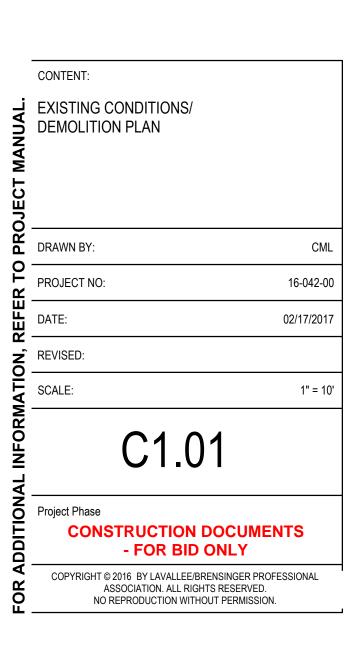
AND THE CRIMMINS NO. 12378

CITY OF PORTSMOUTH

FACADE
REPLACEMENT &
ADDITION PORTSMOUTH CITY
HALL

1 Junkins Avenue Portsmouth, NH 03801

NO. DESCRIPTION DATE



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SITE NOTES:

- 1. PAVEMENT MARKINGS SHALL BE INSTALLED AS SHOWN. ALL MARKINGS TO BE CONSTRUCTED USING WHITE PAVEMENT MARKINGS. ALL PAINTED PAVEMENT MARKINGS INCLUDING SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F".
- 2. ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
- 3. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.
- 4. SEE ARCHITECTURAL/BUILDING DRAWINGS FOR ALL CONCRETE PADS, SIDEWALKS, RAMPS AND BOLLARDS ADJACENT TO BUILDING.
- 5. CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS AND PADS HAVE BEEN STRIPPED. COORDINATE WITH BUILDING CONTRACTOR.
- 6. COORDINATE ALL WORK ADJACENT TO BUILDING WITH BUILDING CONTRACTOR.

GRADING AND DRAINAGE NOTES:

- 1. COMPACTION REQUIREMENTS:
 BELOW PAVED OR CONCRETE AREAS
 TRENCH BEDDING MATERIAL AND
- SAND BLANKET BACKFILL 95
 BELOW LOAM AND SEED AREAS 90
- * ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
- 2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
- 3. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
- 4. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND AREAS ADJACENT TO THE BUILDING
- 5. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
- 6. ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NHDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES,

EROSION CONTROL NOTES:

- INSTALL EROSION CONTROL BARRIERS AS SHOWN AS FIRST ORDER OF WORK.
- SEE GENERAL EROSION CONTROL NOTES ON "EROSION CONTROL NOTES & DETAILS SHEET".
 PROVIDE INLET PROTECTION AROUND ALL EXISTING AND PROPOSED

5. INSPECT INLET PROTECTION AND PERIMETER EROSION CONTROL

- PROVIDE INLET PROTECTION AROUND ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE WORK LIMITS. MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED.
 INSTALL STABILIZED CONSTRUCTION ENTRANCES.
- MEASURES DAILY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
- 6. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED, FERTILIZER AND MULCH.7. CONSTRUCT EROSION CONTROL BLANKET ON ALL SLOPES STEEPER THAN
- 3:1.
 PRIOR TO ANY WORK OR SOIL DISTURBANCE COMMENCING ON THE SUBJECT PROPERTY, INCLUDING MOVING OF EARTH, THE APPLICANT SHALL INSTALL ALL EROSION AND SILTATION MITIGATION AND CONTROL
- MEASURES AS REQUIRED BY STATE AND LOCAL PERMITS AND APPROVALS.

 9. CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST AND WIND EROSION THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, SPRINKLING WATER ON UNSTABLE SOILS SUBJECT TO ARID CONDITIONS.
- 10. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
- 11. ALL CATCH BASIN SUMPS AND PIPING SHALL BE THOROUGHLY CLEANED TO REMOVE ALL SEDIMENT AND DEBRIS AFTER THE PROJECT HAS BEEN FULLY PAVED.
- 12. TEMPORARY SOIL STOCKPILE SHALL BE SURROUNDED BY SILT FENCE AND SHALL BE STABILIZED BY TEMPORARY EROSION CONTROL SEEDING. STOCKPILE AREAS TO BE LOCATED AS FAR AS POSSIBLE FROM THE DELINEATED EDGE OF WETLANDS.
- SAFETY FENCING SHALL BE PROVIDED AROUND STOCKPILES OVER 10 FT.
 CONCRETE TRUCKS WILL BE REQUIRED TO WASH OUT (IF NECESSARY)
 SHOOTS ONLY WITHIN AREAS WHERE CONCRETE HAS BEEN PLACED. NO
 OTHER WASH OUT WILL BE ALLOWED.

UTILITY NOTES:

- COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.

 NATURAL GAS UNITIL

 WATER CITY OF PORTSMOUTH DPW
- ELECTRIC EVERSOURCECOMMUNICATIONS FAIRPOINT

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- ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
 THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS
- SHALL BE COORDINATED WITH THE BUILDING DRAWINGS AND THE APPLICABLE UTILITY COMPANIES.

 4. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, ELECTRONS, CONTRACTORS, CONTRACTORS, AND OTHER MISCELLANGUES.
- 4. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
- 5. CONTRACTOR SHALL PROVIDE EXCAVATION, BEDDING, BACKFILL AND COMPACTION FOR NATURAL GAS SERVICES.
- SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN
- 7. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING WITH POWER COMPANY.

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NO FIELD SURVEY HAS BEEN PERFORMED FOR THIS SITE. LOCATIONS AND ELEVATIONS OF ALL EXISTING SURFACE FEATURES ARE APPROXIMATE AND BASED ON A COMPILATION OF THE REFERENCE PLANS (SEE SHEET C-101). THE LOCATIONS AND ELEVATIONS OF SUBSURFACE SITE FEATURES ARE BASED ON REFERENCE PLAN #5 (SEE SHEET C-101). THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL SITE FEATURES PRIOR TO THE START OF CONSTRUCTION. RIM=(VIF) INV IN=INV OUT + 0.10 (VIF) 47 LF 12" HDPE INV OUT=(VIF) APPROXIMATE LOCATION OF @ S=(VIF) EXISTING BUILDING 0.005(MIN) & 0.05(MAX) -- APPROXIMATE LOCATION OF EXISTING LANDSCAPE TIMBER RETAINING APPROXIMATE LOCATION OF WALL TO BE REMOVED AND REPLACED EXISTING VERTICAL GRANITE CURB BEGIN MONOLITHIC CURB WITH CONCRETE BLOCK WALL MEET/MATCH EXISTING -(COORD. W/ ARCHITECTURAL DWGS) APPROXIMATE LOCATION OF EXISTING CATCH BASIN PROPOSED PAINTED ISLAND APPROXIMATE LOCATION OF EXISTING **EXISTING BUILDING** PROPOSED DRAIN MANHOLE FF=3.06 CONCRETE SIDEWALK APPROXIMATE LOCATION OF EXISTING _ 19 LF 6" PVC WATER VALVE ROOF LEADER (EXISTING) RIM=2.15(VIF)@ S=0.010 PAINTED ADA PARKING SYMBOL INV IN=(VIF) (COORD W/ BLDG DWGS) PROPOSED INV IN=-3.05(PDMH-4)(VIF) LIMIT OF PROPOSED BUILDING **BUILDING** INV OUT=-6.60(MIN)(VIF) – – 19 LF 8" PVC FF=3.06 ROOF LEADER (EXISTING) CB-1 -PROPOSED VERTICAL GRANITE CURB PROPOSED BOLLARD @ S=0.010 (TYPICAL OF 5) (COORD W/ BLDG DWGS) (COORD W/ ARCHITECTURAL DWGS) -PROPOSED BUILDING OVERHANG PROPOSED BUILDING PROPOSED PAVEMENT SECTION PROPOSED INLET OVERHANG PROTECTION PROPOSED TIP DOWN RAMP - EXISTING WATER AND GAS SERVICE (TYPICAL) -WITH ADA WARNING PANEL CONNECTIONS PROPOSED DRAIN MANHOLE (COORD W/ ARCHITECTURAL DWGS) -(CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND IF SERVICES WILL 54 LF 12" HDPE PROPOSED DRAIN LINE NEED TO BE RECONSTRUCTED) @ S=0.005 -(COORD W/ BLDG DWGS, UNITIL, AND PORTSMOUTH DPW) PROPOSED INLET PROTECTION CONTRACTOR SHALL VERIFY DUCT BANK ELEVATIONS AND NOTIFY ENGINEER OF ANY -- END MONOLITHIC CURB CONFLICTS WITH PROPOSED DRAINAGE PROPOSED SILT SOCK MEET AT BUILDING ∠— CB-3 PROPOSED DOOR PDMH-3 RIM=2.35(VIF)PROPOSED TIP DOWN RAMP WITH INV IN=(VIF) ADA WARNING PANEL INV OUT=-3.00(VIF) / 22 LF 12" HDPE @ S=0.005 [→] PROPOSED PAINTED ISLAND PROPOSED FLOW DIRECTION/SLOPE VERIFY IN FIELD COORD COORDINATE BLDG BUILDING DWGS DRAWING - CORE INTO EXISTING INVERT STRUCTURE TO ACCEPT VITRIFIED CLAY PIPE NEW 12" HDPE HIGH DENSITY POLYETHYLENE

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LAVALLEE BRENSINGER ARCHITECTS

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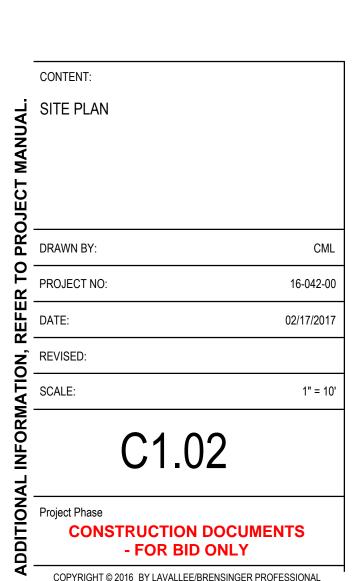
PATRICK M.
CRIMMINS
No. 12378
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CITY OF PORTSMOUTH

FACADE
REPLACEMENT &
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HALL

1 Junkins Avenue Portsmouth, NH 03801

NO. DESCRIPTION DATE

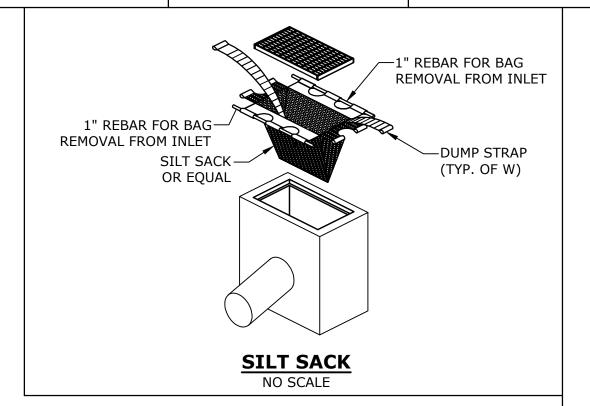


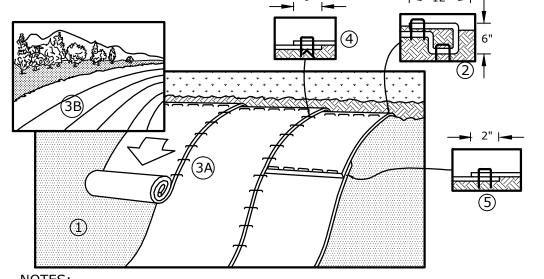
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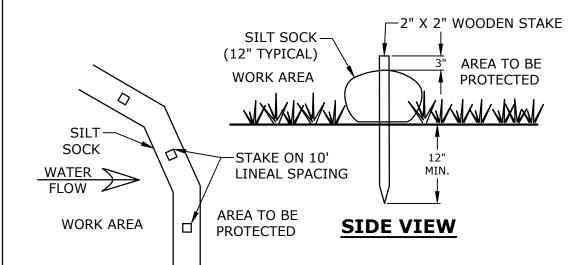
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- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY
- APPLICATION OF LIME, FERTILIZER AND SEED. BEGIN AT THE TOP OF THE SLOPE, 36" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF TAPLES/STAKES 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED 12" APART ACROSS THE WIDTH OF THE
- ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE
- LOCATIONS AS SHOWN ON THE STAPLE PATTERN GUIDE.

EROSION CONTROL BLANKET FOR SLOPE PROTECTION

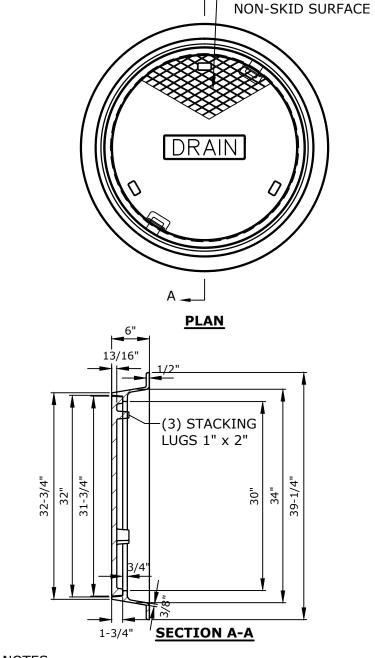


PLAN VIEW

RECOMMENDATIONS.

1. SILT SOCK SHALL BE SILT SOXX BY FILTREXX OR EQUAL 2. INSTALL SILT SOCK IN ACCORDANCE WITH MANUFACTURERS

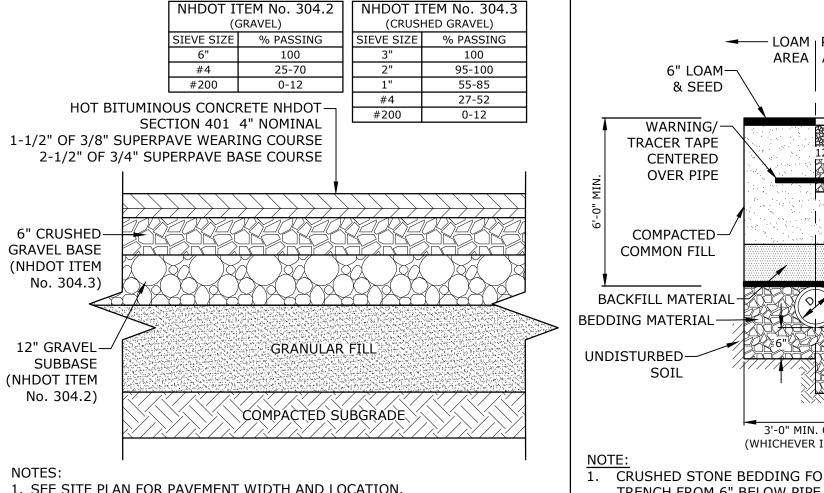
> **SILT SOCK** NO SCALE



- 1. ALL DIMENSIONS ARE NOMINAL. 2. FRAMES USING NARROWER DIMENSIONS FOR THICKNESS
 - RATING. • THE INTERIOR PERIMETER (SEAT AREA) DIMENSIONS OF THE FRAMES REMAIN THE SAME TO ALLOW CONTINUED USE OF EXISTING GRATES/COVERS AS THE EXISTING
- ALL OTHER PERTINENT REQUIREMENTS OF THE SPECIFICATIONS ARE MET.

3. LABEL TYPE OF MANHOLE WITH 3" HIGH LETTERS IN HE CENTER OF THE COVER.

DRAIN MANHOLE FRAME & COVER



—ADJUST TO GRADE WITH

(2 COURSES MAX).

-SEE STRUCTURE

JOINTS DETAIL

(TYP.)

CONCRETE GRADE RINGS OR

CLAY BRICKS, FRAME TO BE

SET IN FULL BED OF MORTAR.

←MORTAR ALL JOINTS

DESIGNATION M199

—PIPE OPENING TO BE

-INVERT OF

─MIN. 0.12 sq. in. STEEL PER

VERTICAL FOOT, PLACED

ACCORDING TO AASHTO

PRECAST IN RISER SECTION

FOR PIPES 18" DIAMETER

AND OVER, 1" COVER

STRUCTURE TO BE

CONCRETE CLASS "B"

 $\frac{3}{4}$ " CRUSHED STONE

NHDOT ITEM No. 304.4

(CRUSHED STONE - FINE)

1. SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION. 2. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT

MANHOLE FRAME AND COVER 8" MIN.

WORKS HINGE COVER PER—

ECCENTRIC TOP

HEIGHT OF RISER

VARY FROM 1' TO 4'

BOOT OR

5" MIN

CITY OF PORTSMOUTH

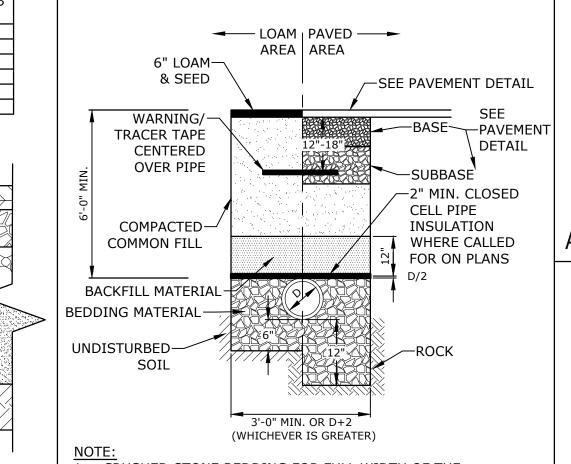
SHALL BE JORDAN IRON —

STANDARD

- SLOPE AND CROSS-SLOPE. 3. A TACK COAT SHALL BE PLACED ON TOP OF BINDER COURSE PAVEMENT
- PRIOR TO PLACING WEARING COURSE. 4. REFER TO CITY SPECIFICATIONS FOR ASPHALT MIX DESIGN.

TYPICAL STANDARD PAVEMENT SECTION

 $48" \pm 1"$ DIA.



CRUSHED STONE BEDDING FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO THE TOP OF PIPE.

SAND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM TOP OF PIPE UP TO 12" ABOVE TOP OF PIPE. DRAIN LINES SHALL BE INSTALLED PER THE CITY OF PORTSMOUTH. COORDINATE ALL INSTALLATIONS WITH THE CITY OF PORTSMOUTH.

TYPICAL UTILITY TRENCH

1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE. 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER

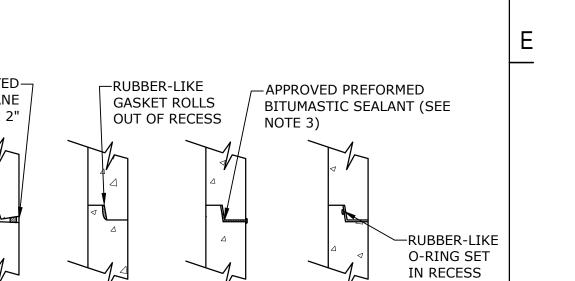
SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT. 4. THE STRUCTURES SHALL BE DESIGNED FOR H20

5. CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM THICKNESS) THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.

8. OUTSIDE EDGES OF PIPES SHALL PROJECT NO —1 - #3 BAR AROUND OPENING MORE THAN 3" BEYOND INSIDE WALL OF 9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE

> 10. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZNTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.

DRAIN MANHOLE NO SCALE



PER CITY OF PORTSMOUTH DPW STANDARD AND SHALL BE SEALED FOR WATERTIGHTNESS USING A DOUBLE ROW ELASTOMERIC OR MASTIC-LIKE GASKET. 2. PIPE TO MANHOLE JOINTS SHALL BE PER CITY OF PORTSMOUTH STANDARD.

LEAST 75% OF THE JOINT CAVITY. 4. ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH

THIRD OF THE WALL. 3. THE TONGUE AND THE GROOVE OF THE JOINT

LOADING.

7. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.

SEALANT IN JOINTS.



NO.	DESCRIPTION	DATE



CONTENT: CIVIL DETAILS SHEET DRAWN BY: PROJECT NO: 16-042-00 DATE: 02/17/2017 REVISED: SCALE: NO SCALE CONSTRUCTION DOCUMENTS - FOR BID ONLY

1/8"x1" DEEP HAND TOOLED JOINT WITH 1/4" RADII ——#6 REBAR @ 12" FILLED WITH / FILLED WITH SEALANT — SEALANT — CONSTRUCTION JOINT /--1/8"x1" DEEP HAND —FILLED WITH SEALANT JOINT WITH 1/4" 3/4" SMOOTH DOWEL W/ SLEEVE ∕—1/4" RADIUS @ 12" O.C. COAT WITH BOND BREAKING COMPOUND BEFORE ADJACENT SLAB IS POURED PREMOLDED CONTROL JOINT A FILLER VARIES SEE SITE PLAN **EXPANSION JOINT B** G" COMPACTED" CRUSHED GRAVEL (C)(NHDOT 304.3) └─5" CONCRETE WAĹK, 28 DÁY COMPRESSIVE STRENGTH OF 4500 NHDOT ITEM No. 304.3 P.S.I. 7% AIR ENTRAINED 6x6 W2.9xW2.9 W.W.F. MESH └─#4 BARS CONTINUOUS TOP AND BOTTOM, 2" COVER **MONOLITHIC CONCRETE WALK** NO SCALE

ASPHALT IMPREGNATED-INSIDE FACE— POLYURETHANE OF MANHOLE GASKET 1-/2" x 2" FILL W/MORTAR-ANODIZED ALUMINUM-INTERNAL CLAMP —STAINLESS STEEL CLAMP -KOR-N-SEAL BOOT POLYTITE ROLL-N-LOK BITUMASTIC O-RING (OR EQUAL) (OR EQUAL) KOR-N-SEAL JOINT SLEEVE OR EQUAL **HORIZONTAL JOINTS** PIPE TO MANHOLE JOINTS 1. HORIZONTAL JOINTS BETWEEN THE SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE 3. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT MANUFACTURERS' WRITTEN INSTRUCTIONS. **MANHOLE JOINTS** NO SCALE

1 12

1 10

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4. STAPLE LENGTHS SHALL BE A MINIMUM OF 8 INCHES.

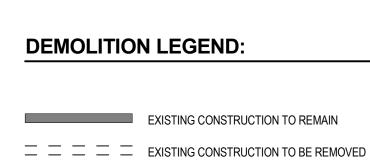
__DIAMOND TOP

ARE ALLOWED PROVIDED: • THE FRAMES MEET OR EXCEED THE SPECIFIED LOAD FRAMES ALLOW, WITHOUT SHIMS OR OTHER MODIFICATIONS OR ACCOMMODATIONS.

EQUAL PROVIDE "V"— OPENING FINISH-CONST. BRICK SHELF-SUBGRADE

13

2



DEMOLITION NOTES:

REQUIRED BY THE SCOPE OF THIS PROJECT.

GENERAL NOTES: 1. THE DEMOLITION PLANS AND ELEVATIONS ILLUSTRATE THE CONCEPT OF THE ARCHITECTURAL DEMOLITION. THEY ARE NOT INTENDED TO BE A COMPLETE REPRESENTATION OF ALL DEMOLITION WORK REQUIRED. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED WHEN DETERMINING THE SCOPE OF DEMOLITION

8. REMOVE CONCRETE SLABS AND FILLS AS REQUIRED FOR INSTALLATION OF NEW

2. DASHED LINES GENERALLY REPRESENT ITEMS TO BE REMOVED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXACT LIMITS AND DETAILS OF REQUIRED DEMOLITION AND COORDINATE WITH PLANS AND DETAILS. 3. REMOVE PARTITIONS TO STRUCTURE ABOVE, UNLESS OTHERWISE INDICATED BY CONSTRUCTION DETAILS.

4. REMOVE MASONRY FOR NEW OPENINGS AS REQUIRED FOR THE INSTALLATION OF NEW 5. REMOVE DOORS, FRAMES AND HARDWARE INCLUDING SIDELIGHTS, TRANSOMS AND THRESHOLDS WHERE DOORS ARE SHOWN DASHED, UNLESS OTHERWISE INDICATED. 6. REMOVE PORTIONS OF ALL SUSPENDED CEILINGS FOR THE INSTALLATION OF NEW WORK

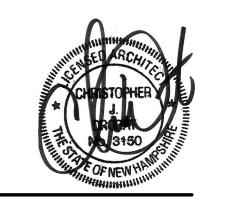
FOR REINSTALLATION WHERE CEILINGS ARE NOT BEING REPLACED. 7. REMOVE ALL MOUNTED ITEMS AND OTHER EQUIPMENT ON WALLS TO BE REMOVED OR FURRED. IF ITEMS AND EQUIPMENT ARE NOT NOTED TO BE REINSTALLED, REVIEW WITH THE OWNER WISHES OPTIONS TO RETAIN BEFORE TRASHING.

FOR THE PROJECT. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO REQUIRE DEMOLITION OF ALL BUILDING ELEMENTS AS NECESSARY FOR THE INSTALLATION OF WORK STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

TO BE DONE ABOVE CEILINGS, UNLESS OTHERWISE INDICATED. SAVE USABLE COMPONENTS



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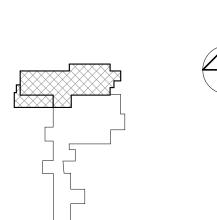


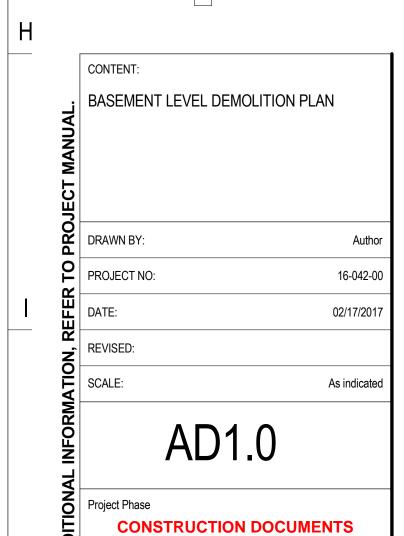
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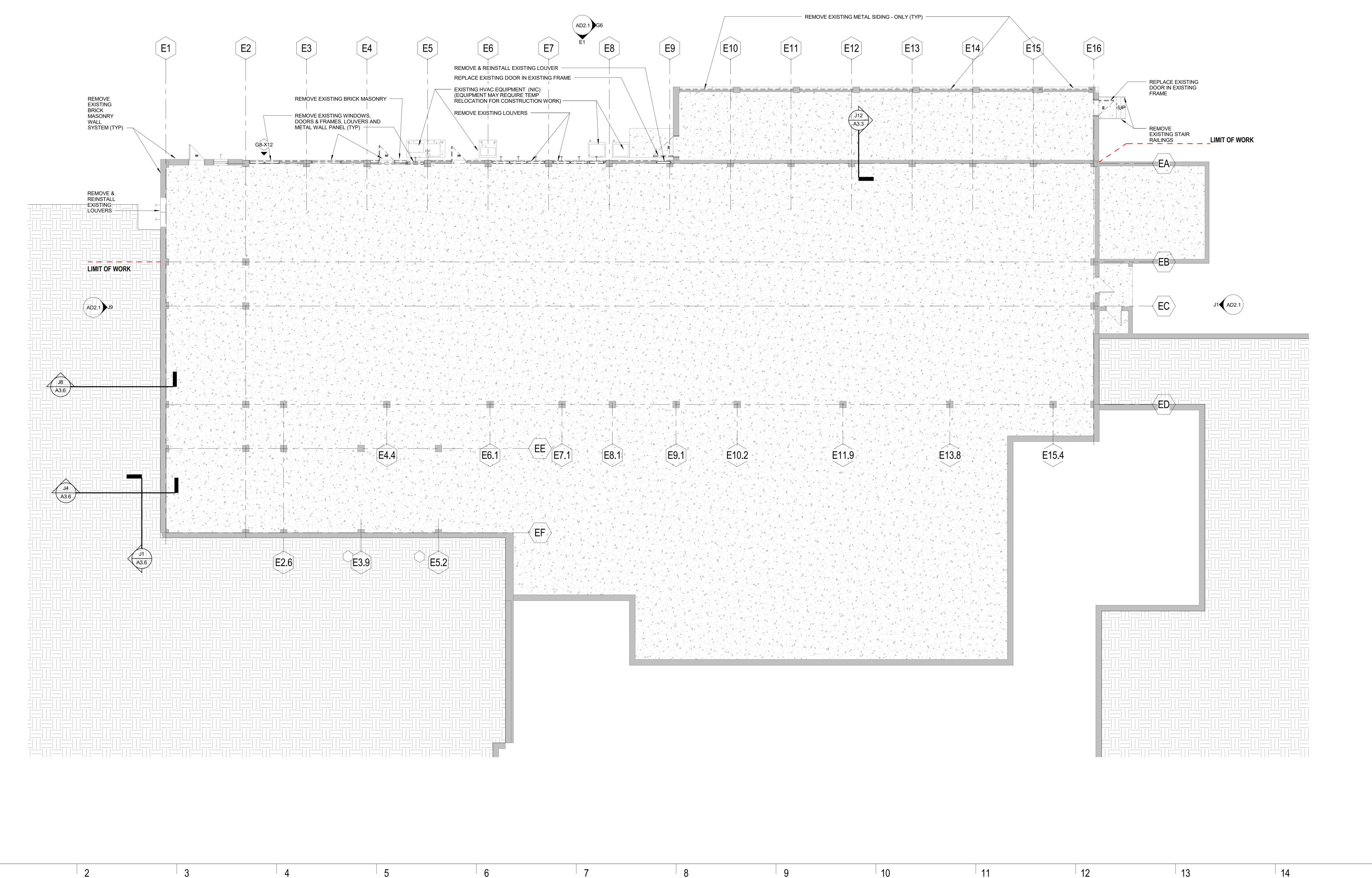
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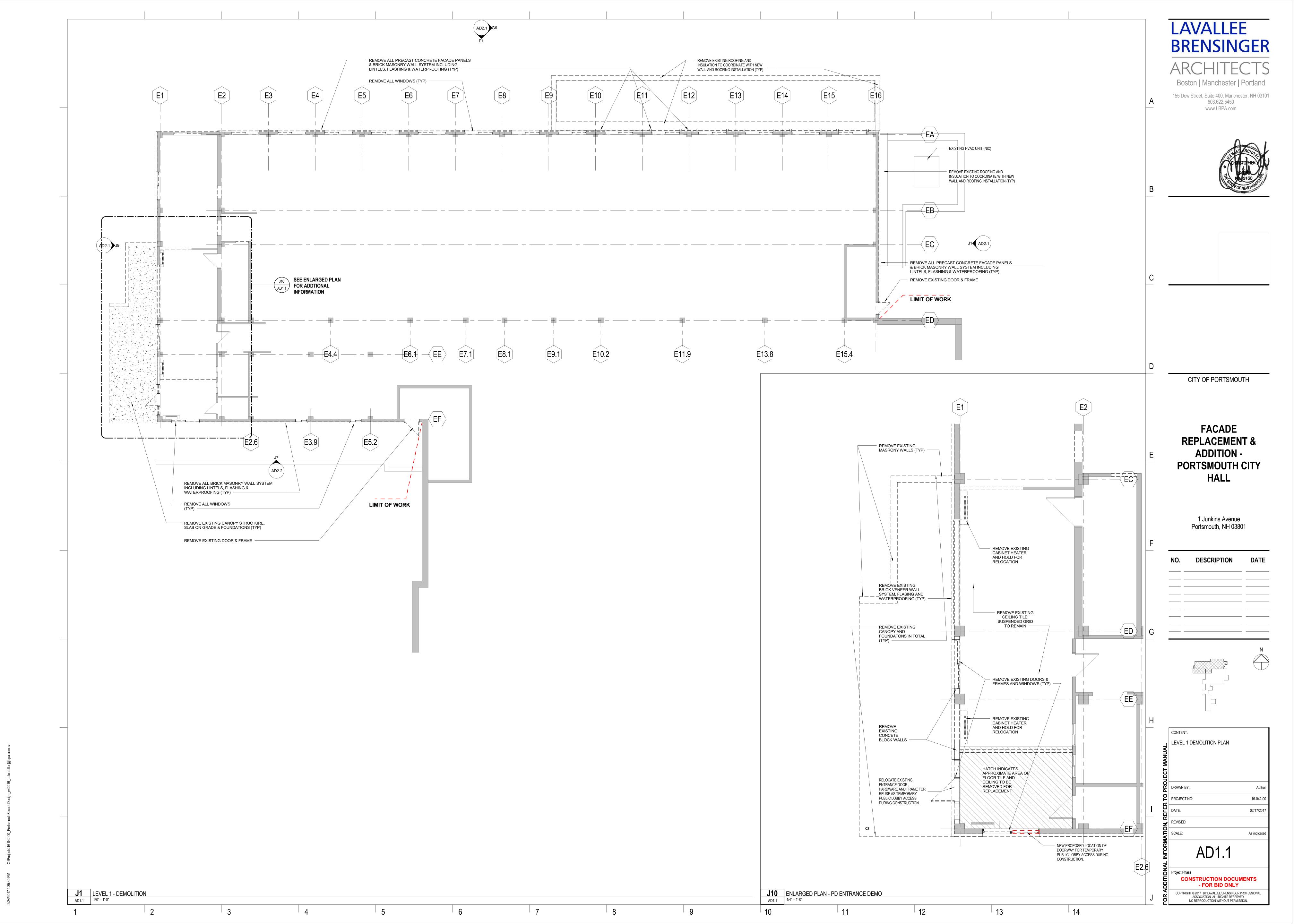
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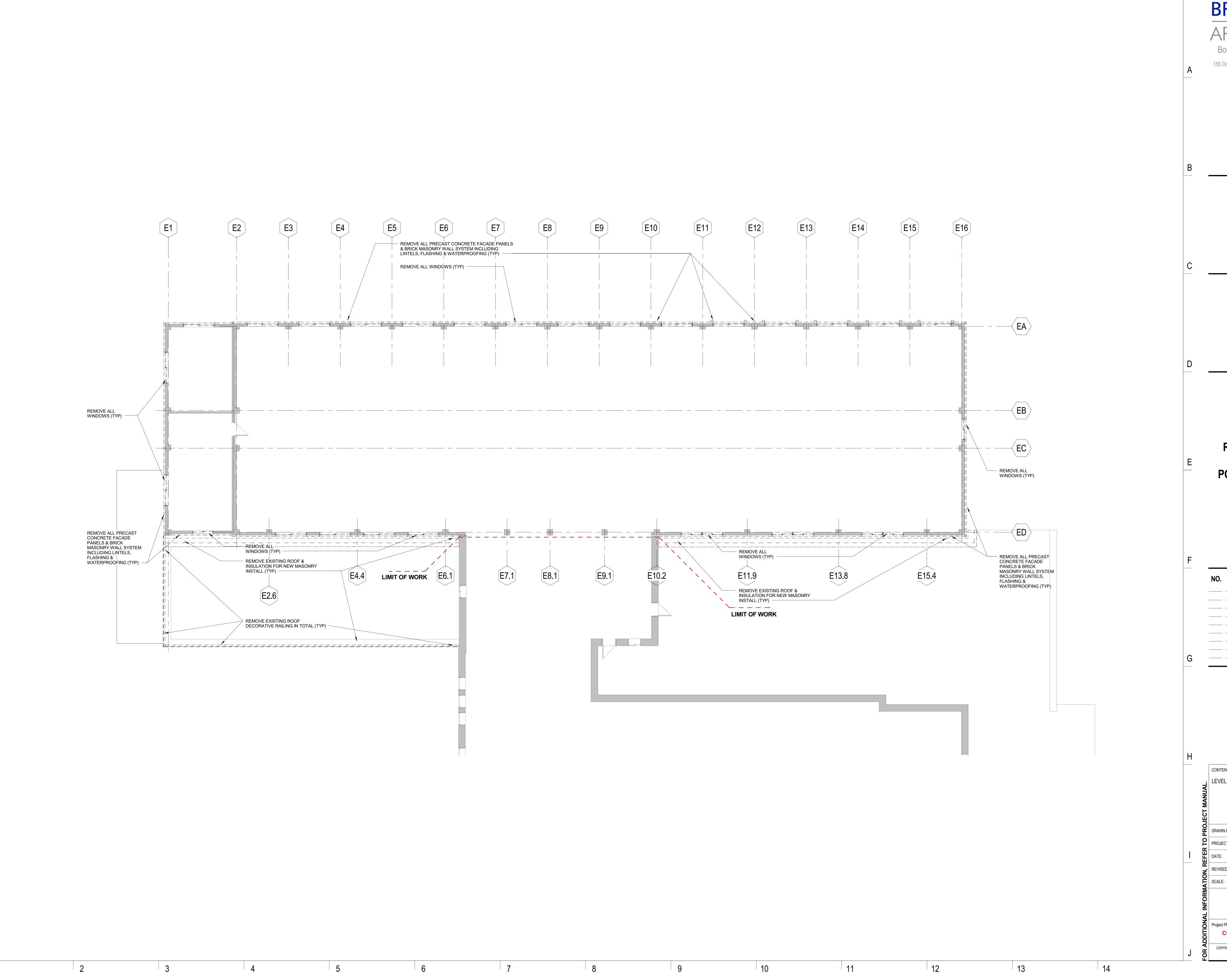




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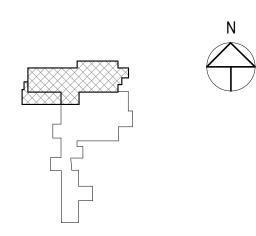
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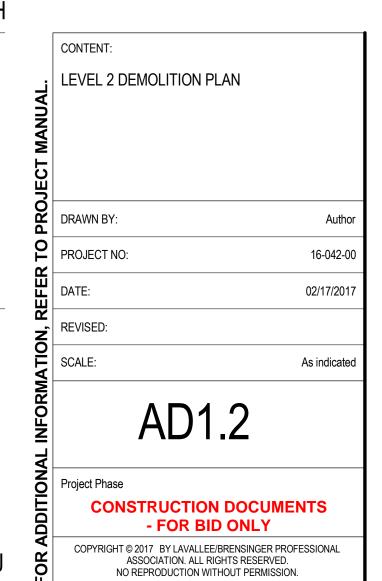


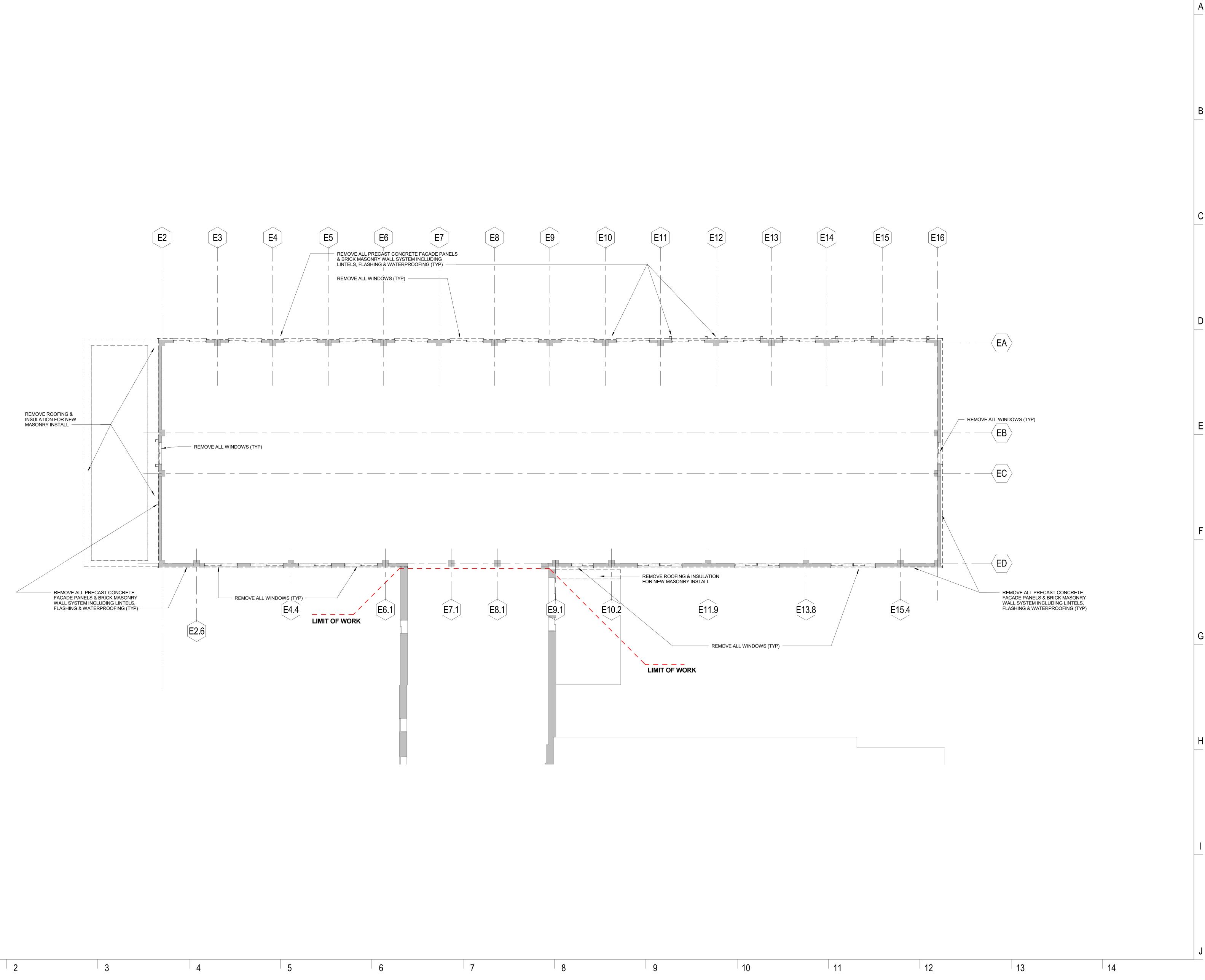
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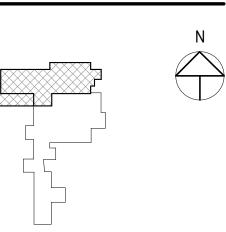
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CONTENT:
LEVEL 3 DEMOLITION PLAN

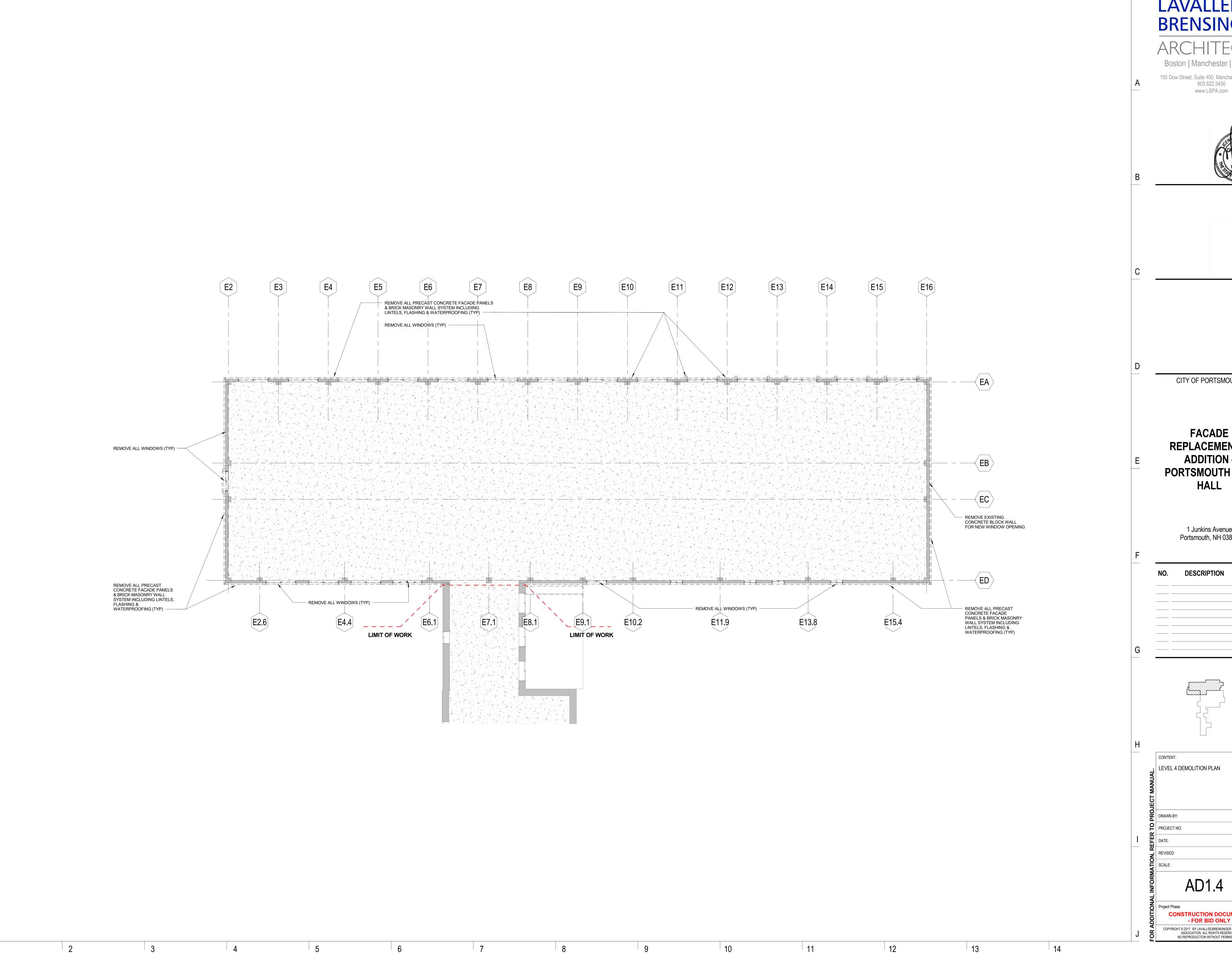
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Author
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DATE:
02/17/2017

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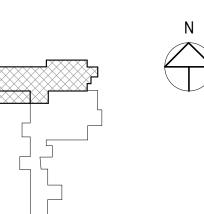


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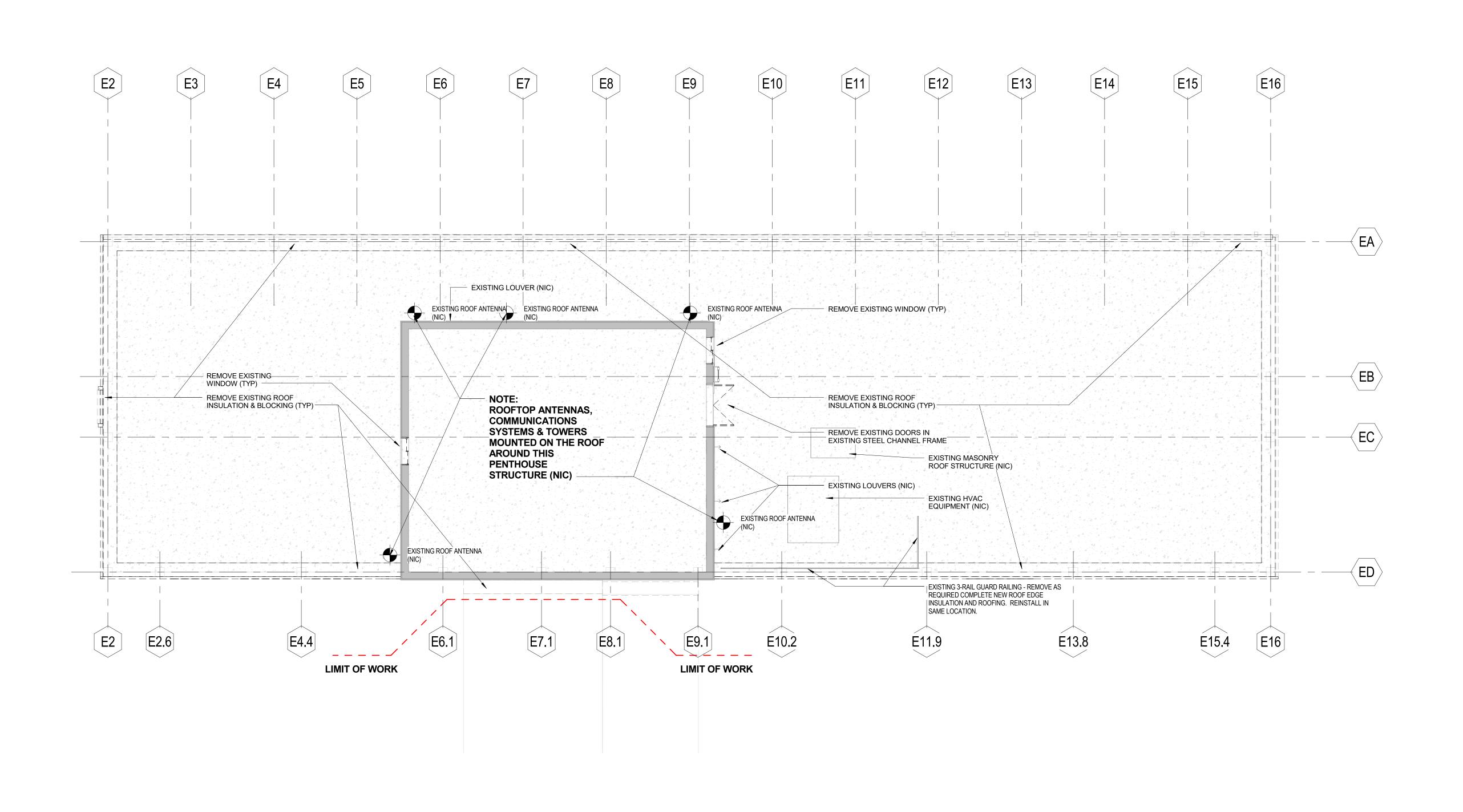
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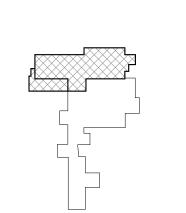


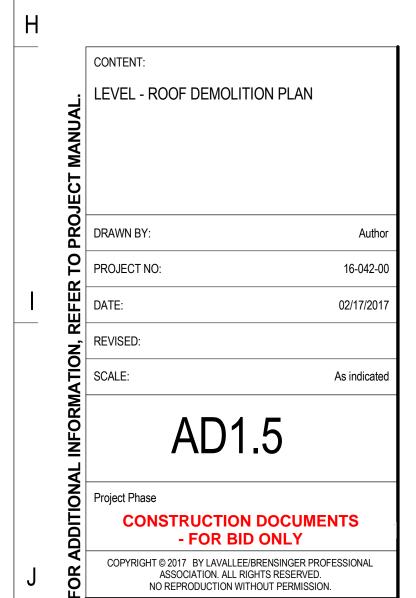


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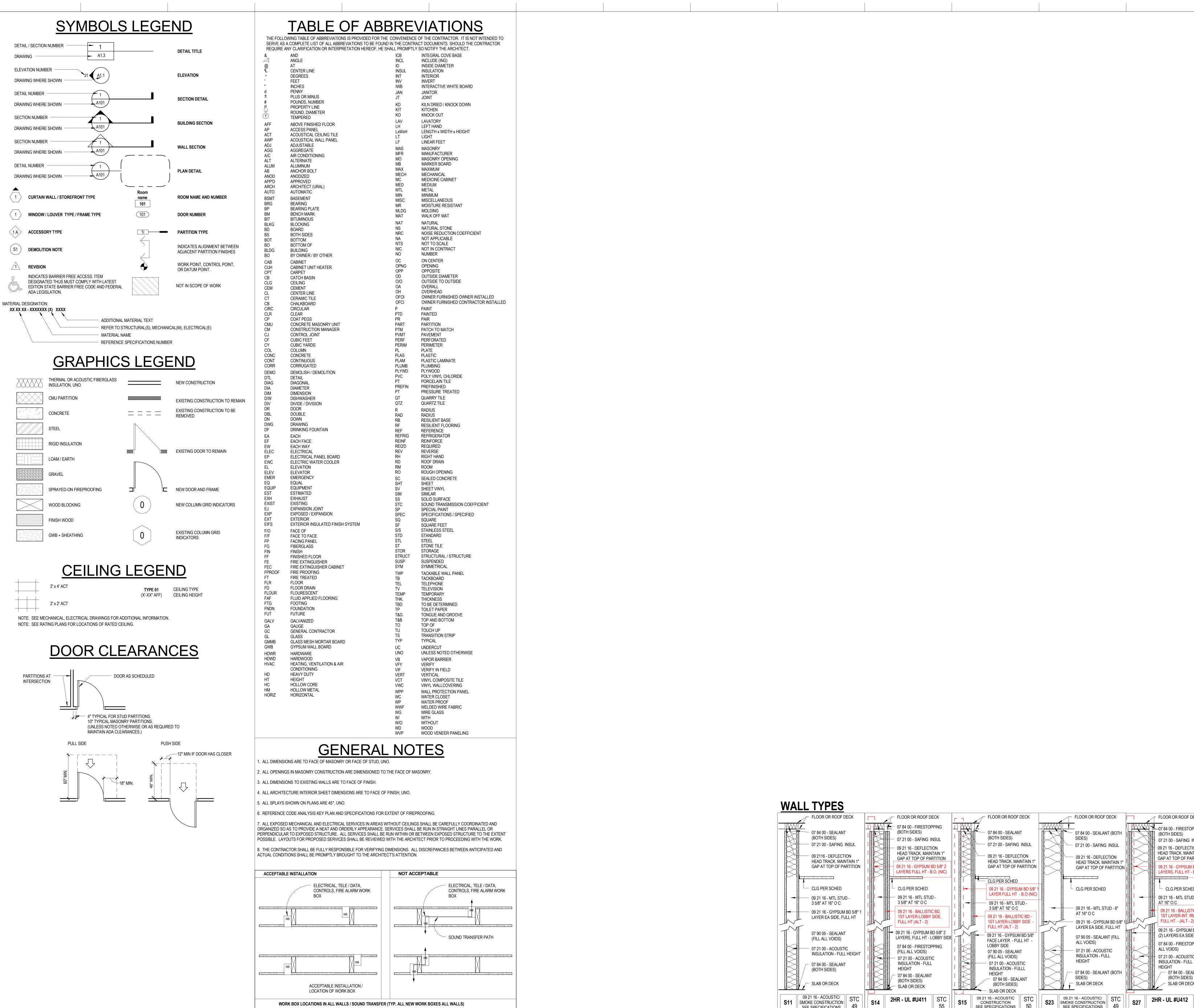


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WORK BOX LOCATIONS IN ALL WALLS / SOUND TRANSFER (TYP. ALL NEW WORK BOXES ALL WALLS)

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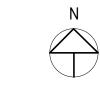
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FLOOR OR ROOF DECK 07 84 00 - FIRESTOPPING (BOTH SIDES) 07 21 00 - SAFING INSUL 09 21 16 - DEFLECTION HEAD TRACK. MAINTAIN 1" GAP AT TOP OF PARTITION LAYERS, FULL HT - B.O (NIC) CLG PER SCHED - (1) 09 21 16 - MTL STUD - 6" AT 16" O C 09 21 16 - BALLiSTIC BD-1ST LAYER-INT. RM. SIDE, FULL HT. - (ALT - 2) 09 21 16 - GYPSUM BD 5/8" (2) LAYERS EA SIDE, FULL HT 07 84 00 - FIRESTOPPING (FILL ALL VOIDS) 07 21 00 - ACOUSTIC INSULATION - FULL HEIGHT - 07 84 00 - SEALANT (BOTH SIDES) SLAB OR DECK

SEE SPECIFICATIONS 49

SEE SPECIFICATIONS | 50

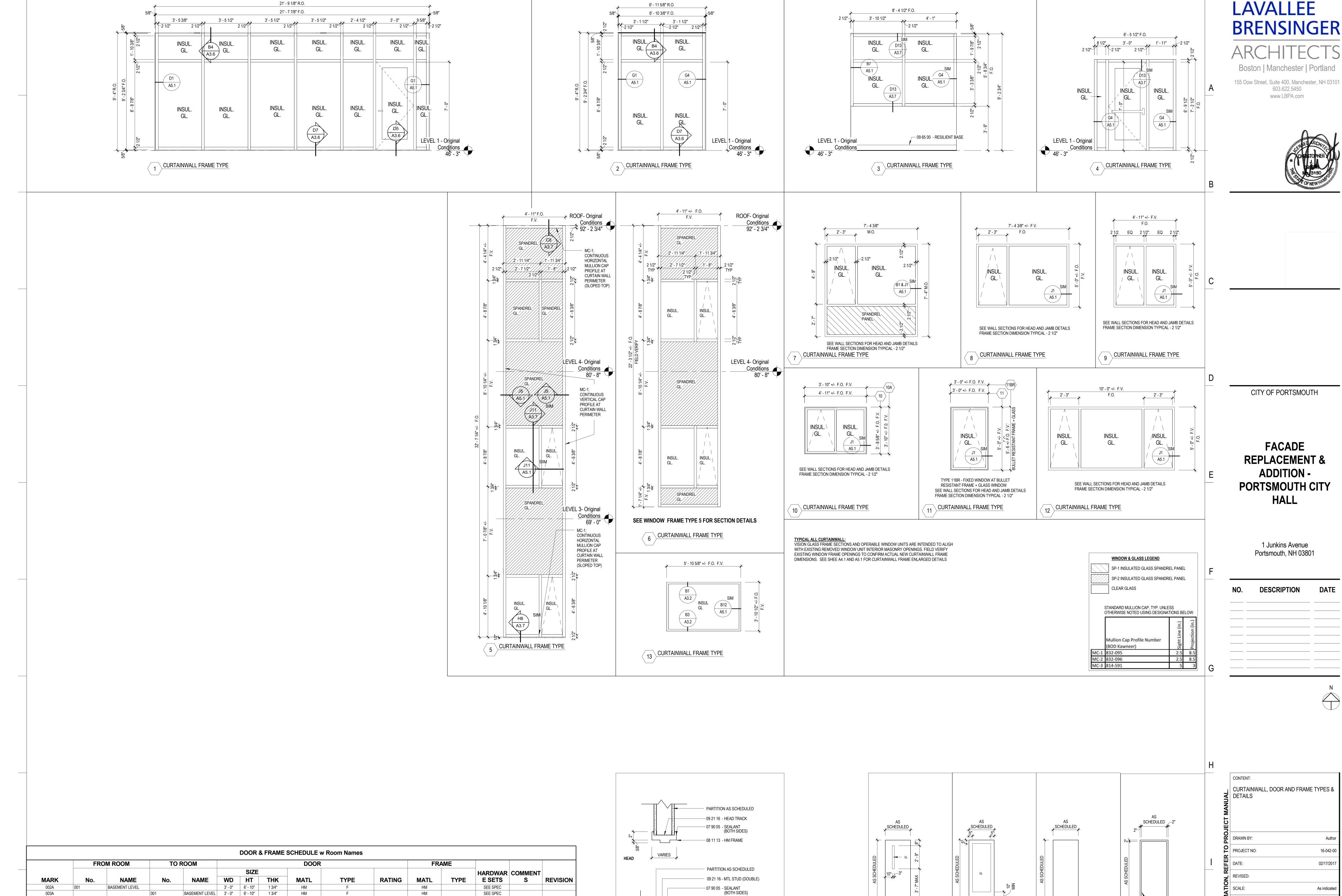
SEE SPECIFICATIONS | 49

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LEGENDS, SYMBOLS, NOTES, PARTITION

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08 11 13 - HM FRAME

10

HM FRAME HEAD and JAMB DETAILS at METAL STUD

A0.3 1 1/2" = 1'-0"

4' - 0" 7' - 0" 1 3/4"

3' - 0" 7' - 0" 1 3/4"

3' - 0" 6' - 11 1 3/4" 3/8"

3' - 0" 7' - 0" 1 3/4"

3' - 0" 7' - 0" 1 3/4"

3' - 0" 7' - 0" 1 3/4"

6' - 0" 7' - 0" 1 3/4" HM

EXIST. SOUTH 3' - 8" 7' - 0" 1 3/4"

005A

100A

102A

106A

EXIST EAST STAIR

EXISTING PENTHOUSE

HM

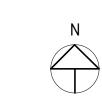
ALUM

SEE SPEC

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DESCRIPTION	DATE
	DESCRIPTION



	CONTENT:
ADDITIONAL INFORMATION, REFER TO PROJECT MANUAL.	CURTAINWALL, DOOR AND FRAME TYPE DETAILS
PRO	DRAWN BY:
2 TO	PROJECT NO: 16-
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08 11 13 - HM DOOR

08 14 16 - FLUSH WOOD DOOR

F FLUSH
1/4" = 1'-0"

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O8 11 13 HM

FRAME

1 FRAME TYPE 1

1/4" = 1'-0"

14

08 11 13 - HM DOOR

08 14 16 - WOOD DOOR

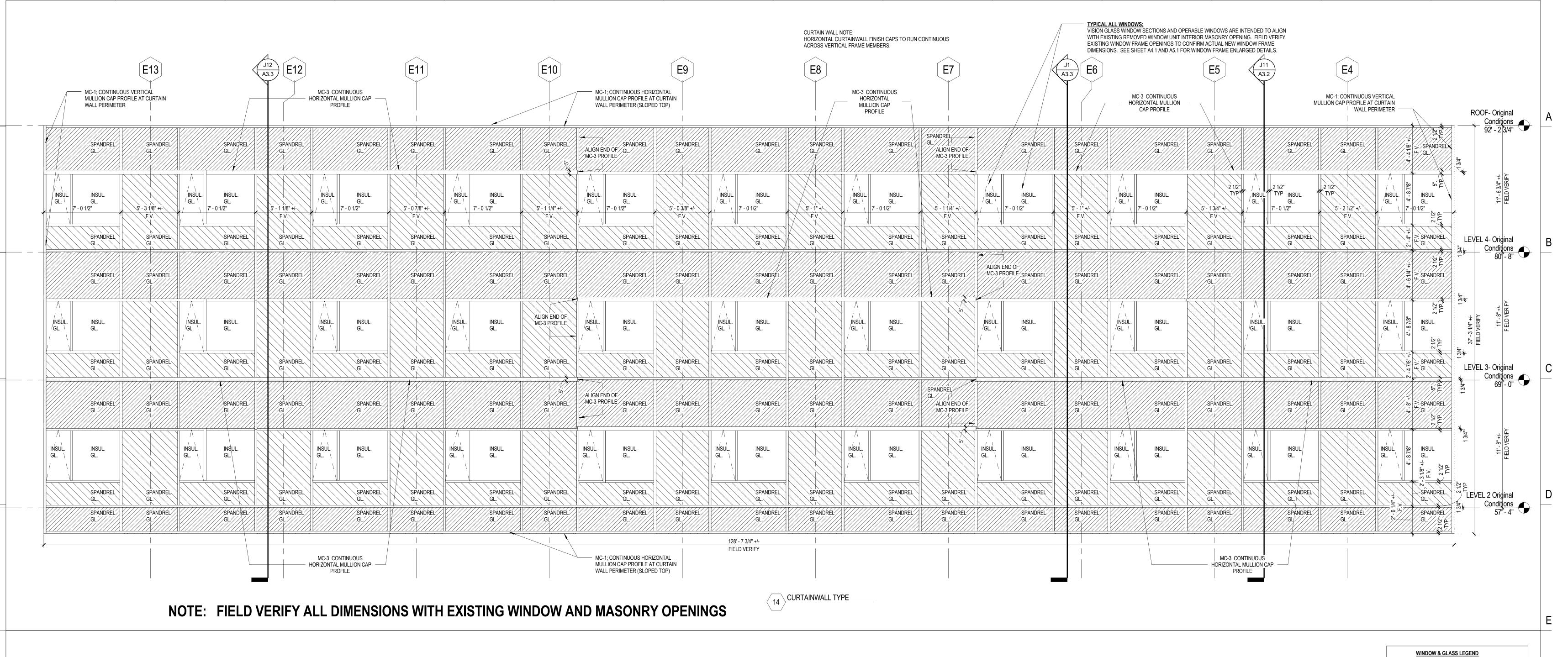
N NARROW LITE_ 1/4" = 1'-0"

08 43 13 - ALUM / GLASS DOOR

FG FULL GLASS

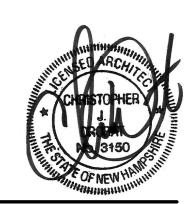
1/4" = 1'-0"

12





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SP-1 INSULATED GLASS SPANDREL PANEL

SP-2 INSULATED GLASS SPANDREL PANEL

STANDARD MULLION CAP, TYP. UNLESS OTHERWISE NOTED USING DESIGNATIONS BELOW:

CLEAR GLASS

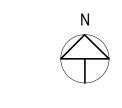
Mullion Cap Profile Number

14

(BOD Kawneer)

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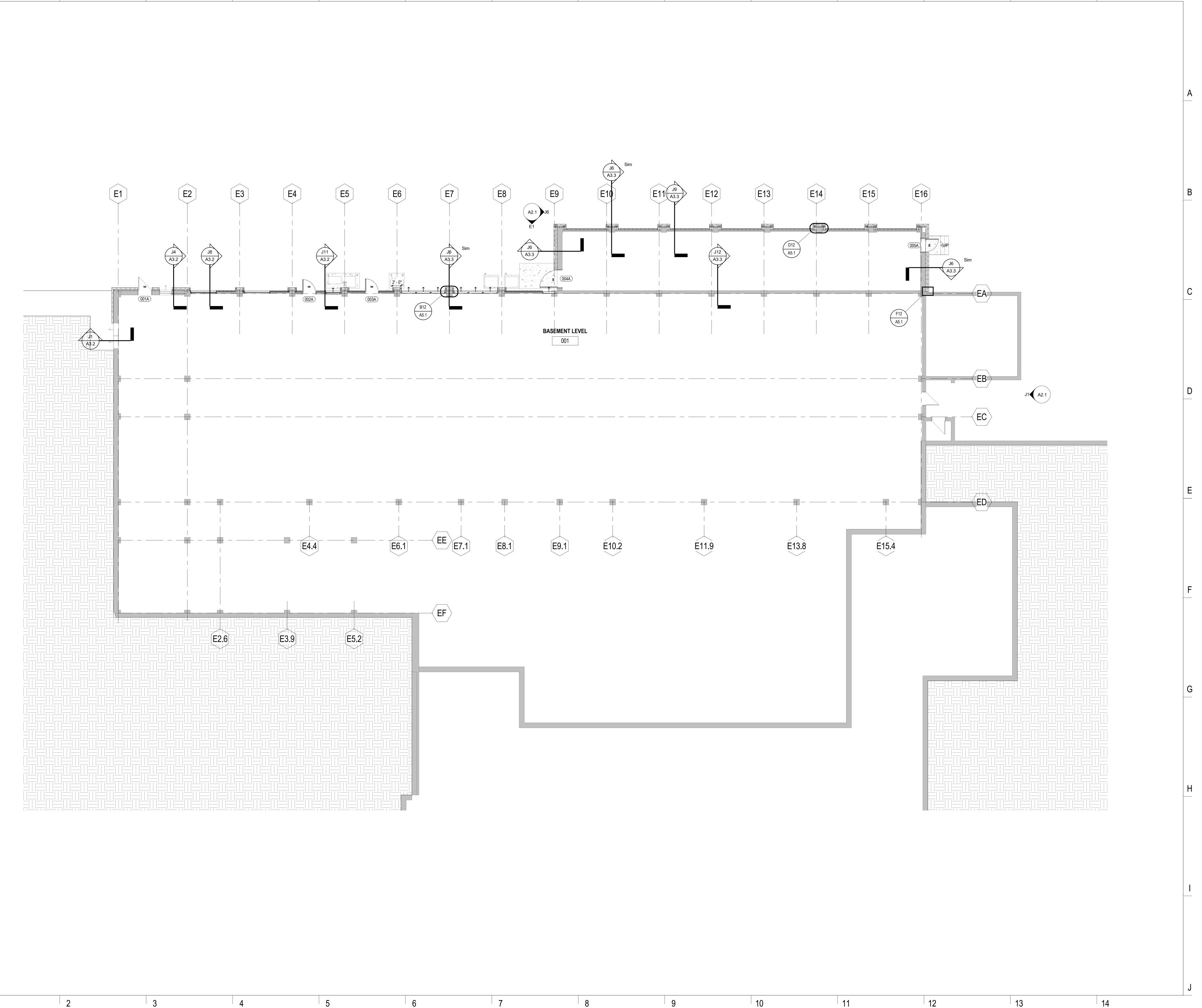
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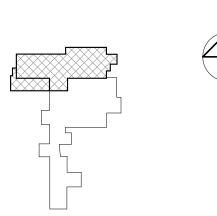


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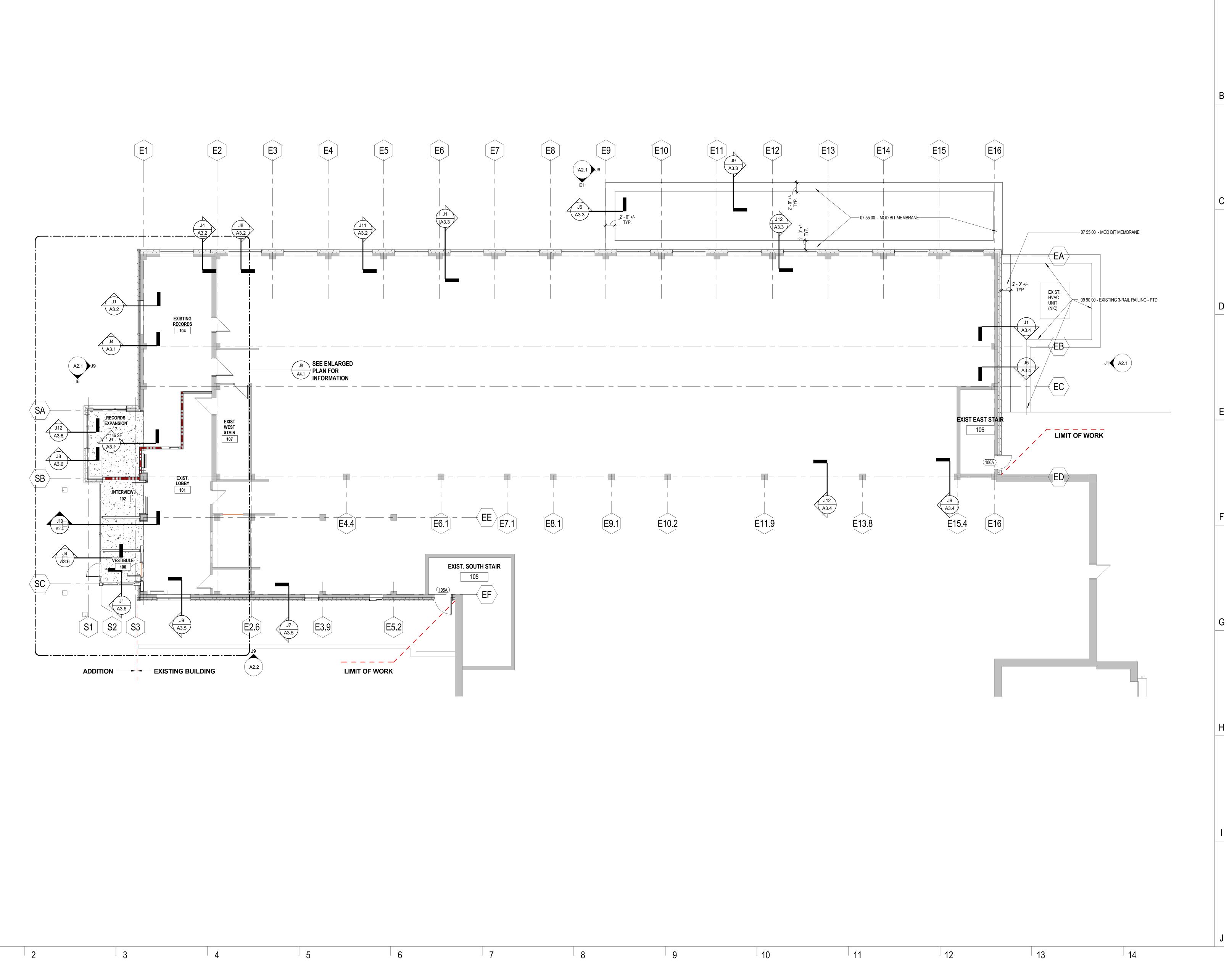
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DRAWN BY:	Author
PROJECT NO:	16-042-00
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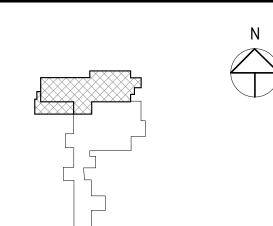
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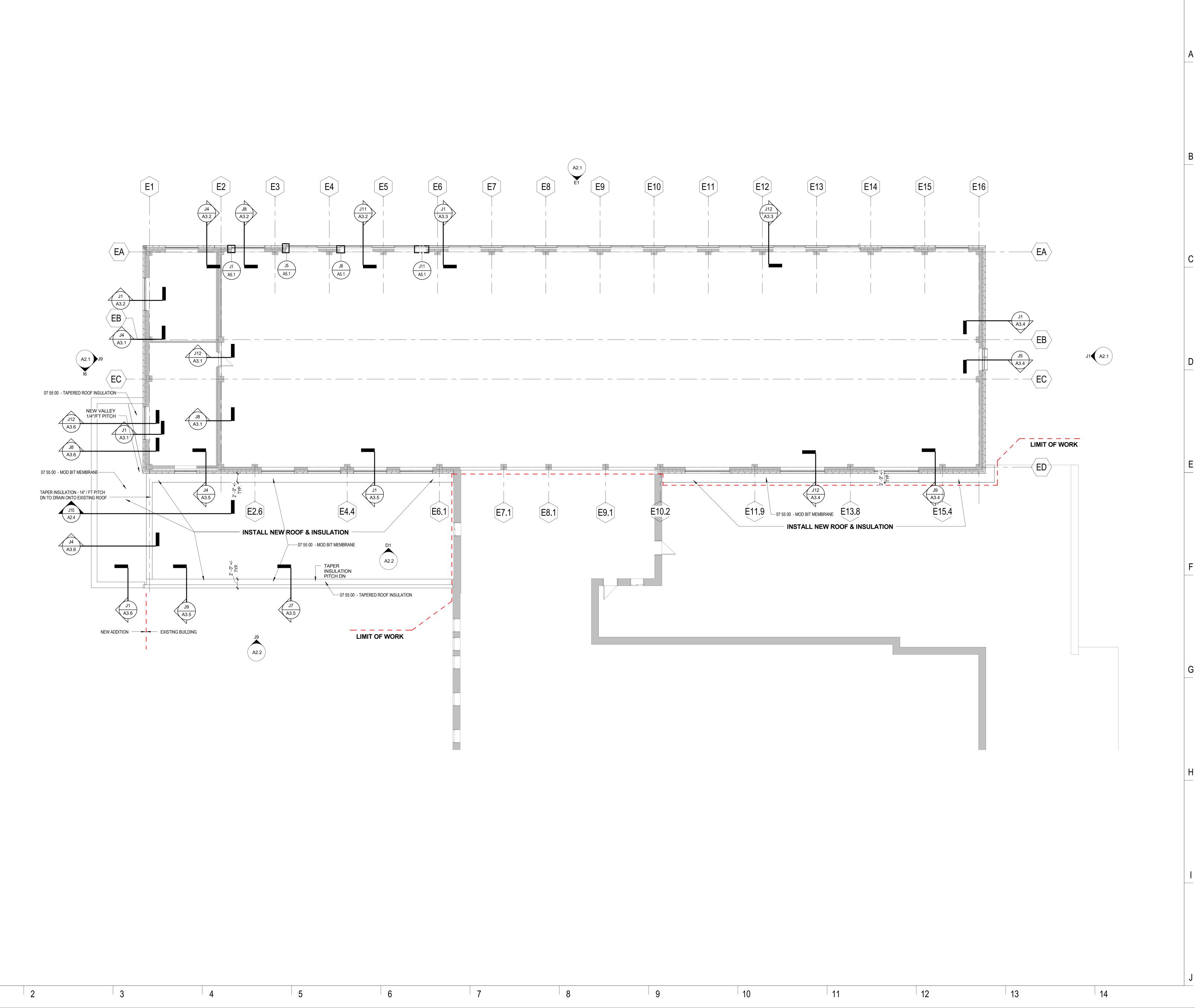
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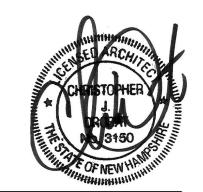
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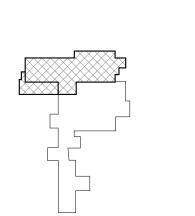
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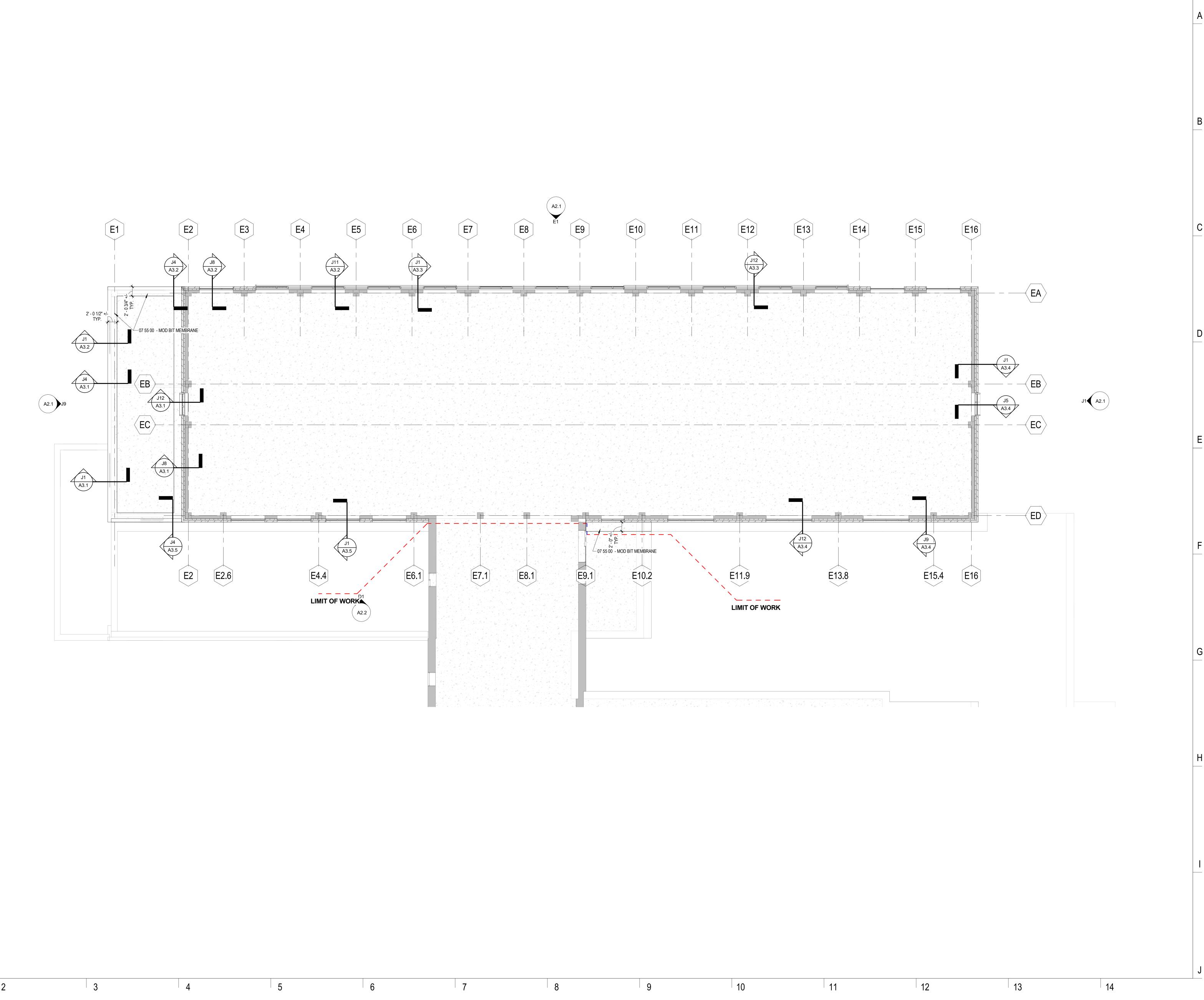


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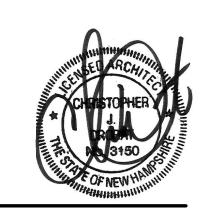
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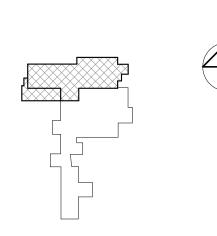




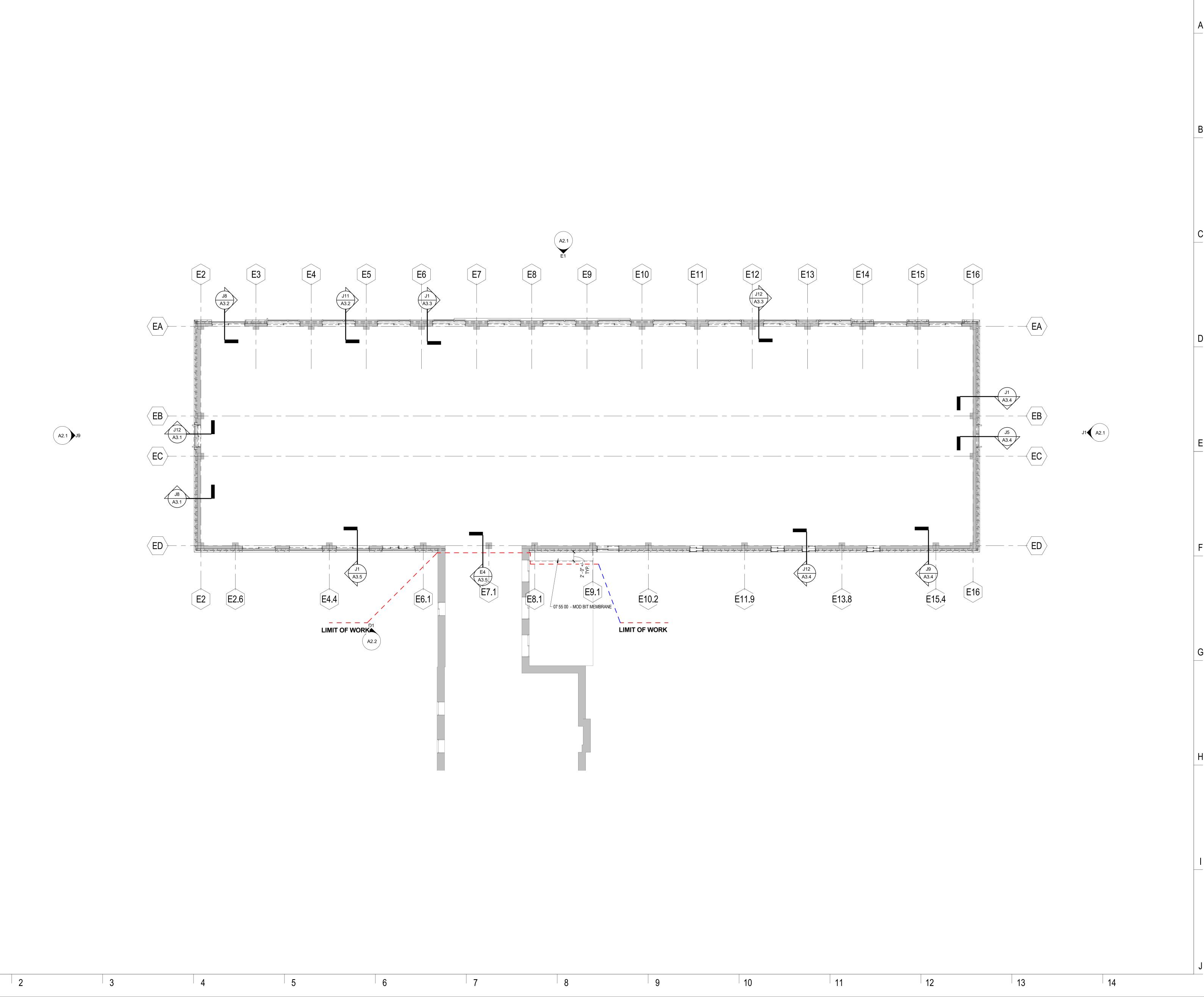
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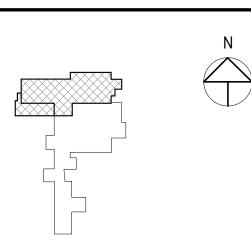
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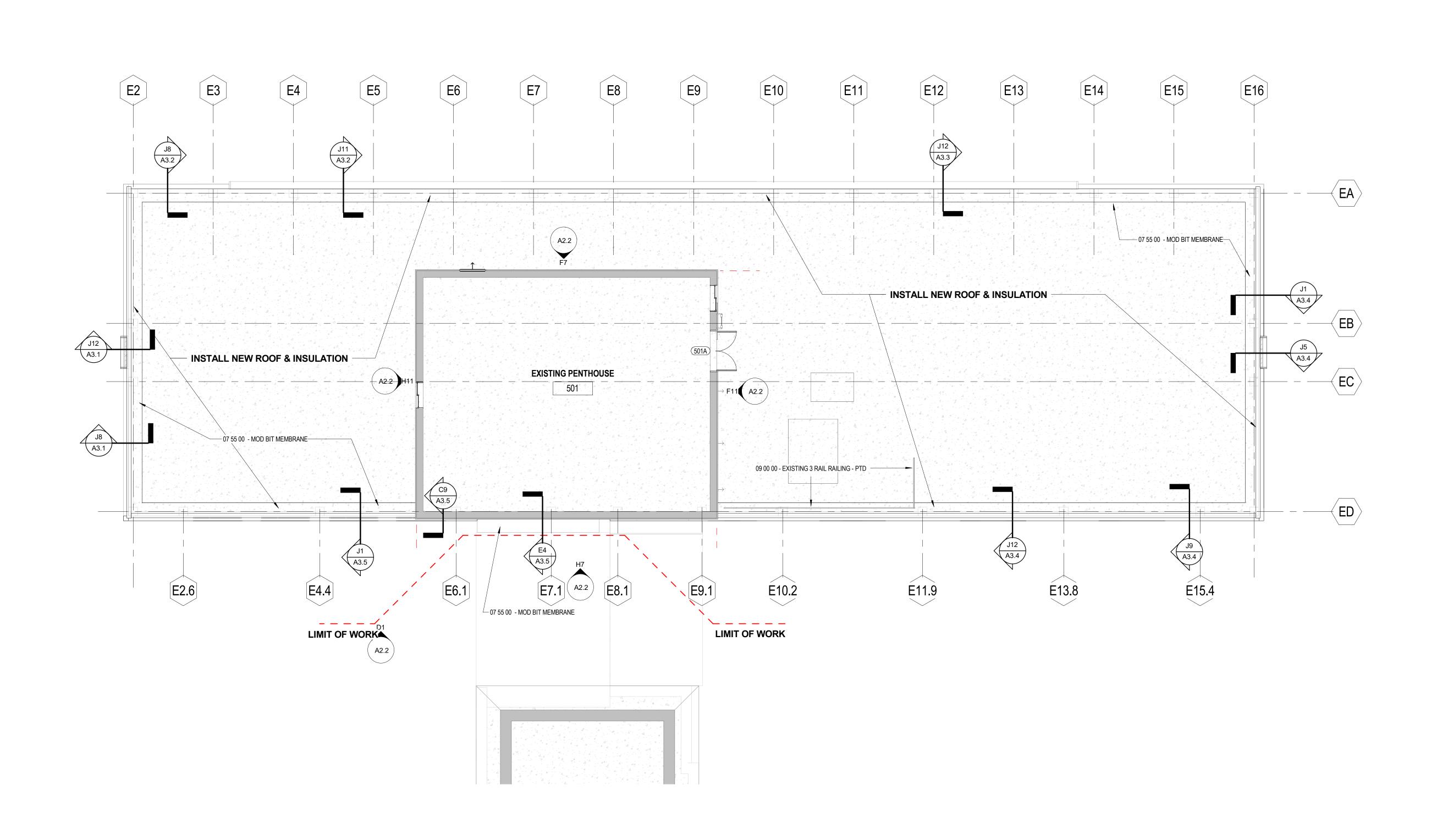
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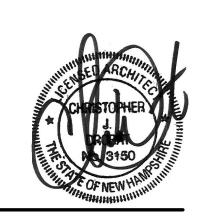
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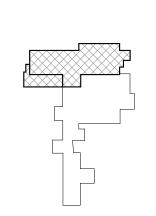


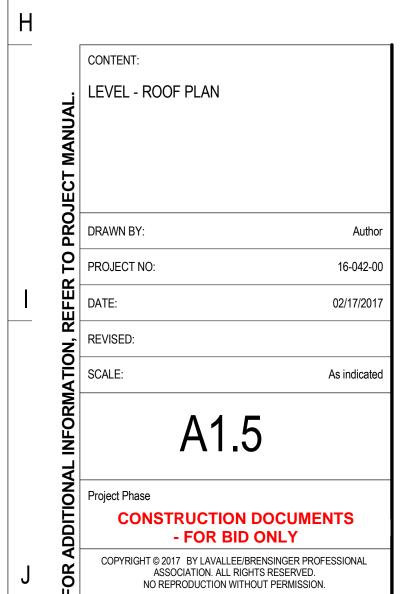


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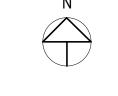




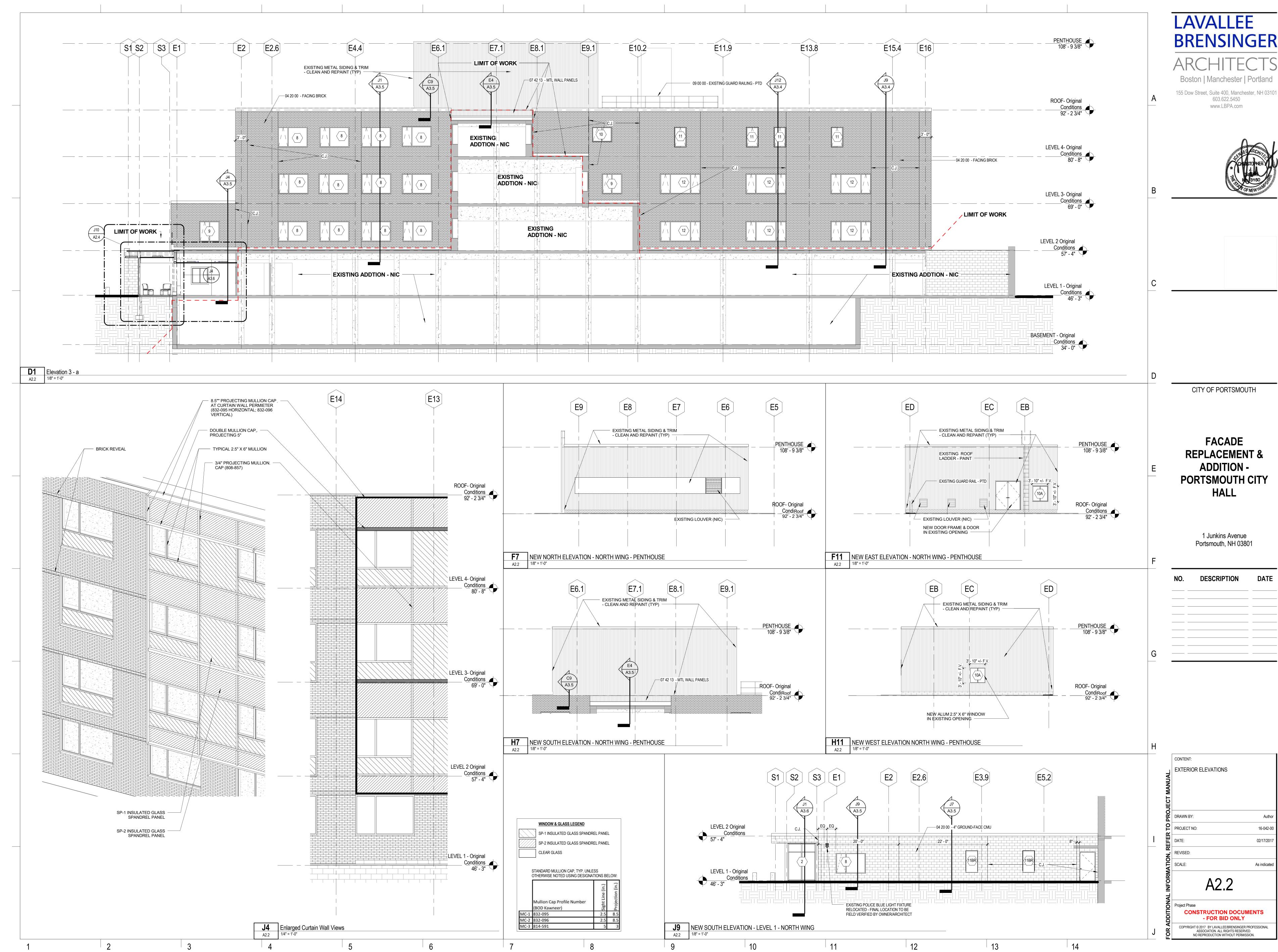
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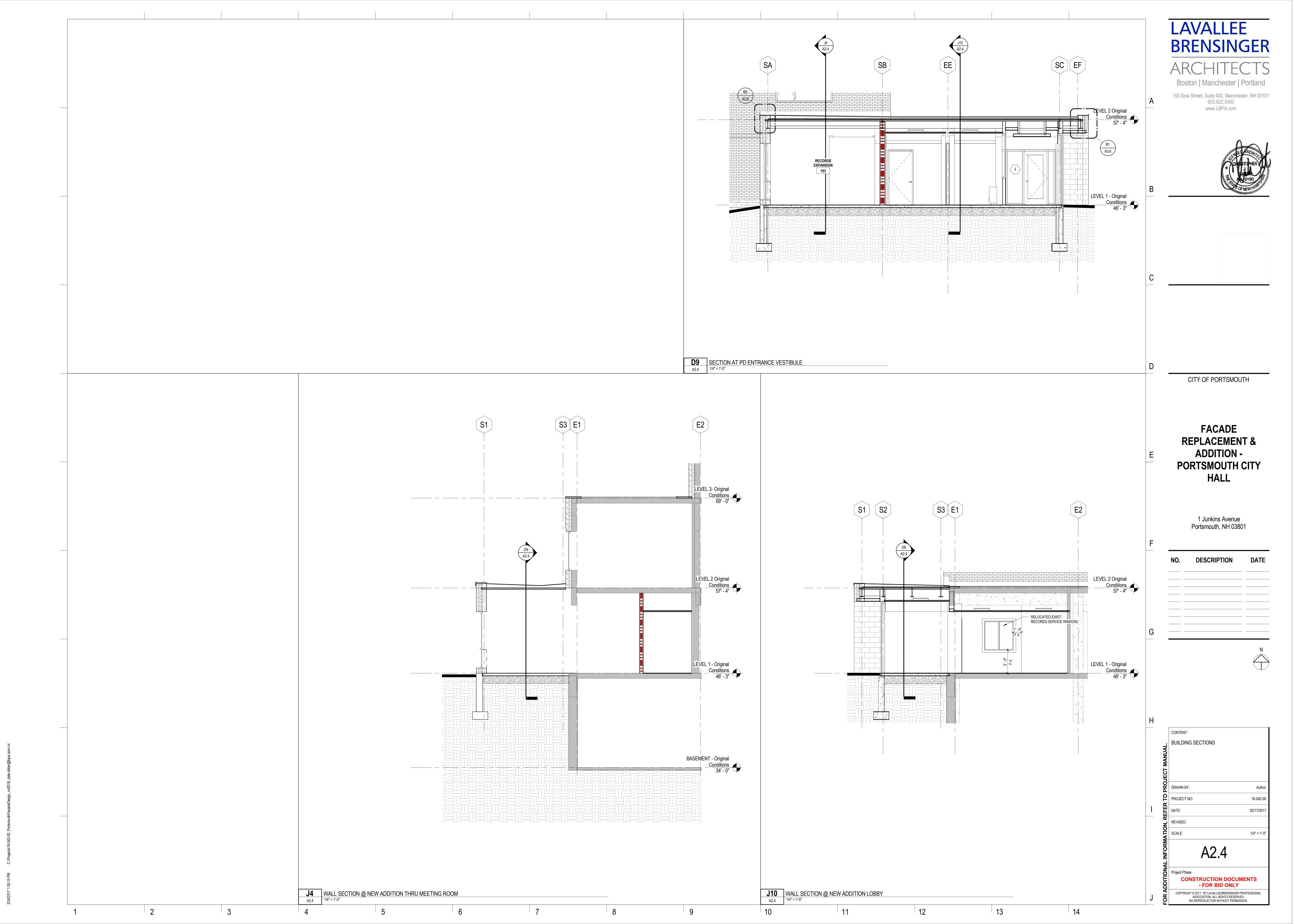
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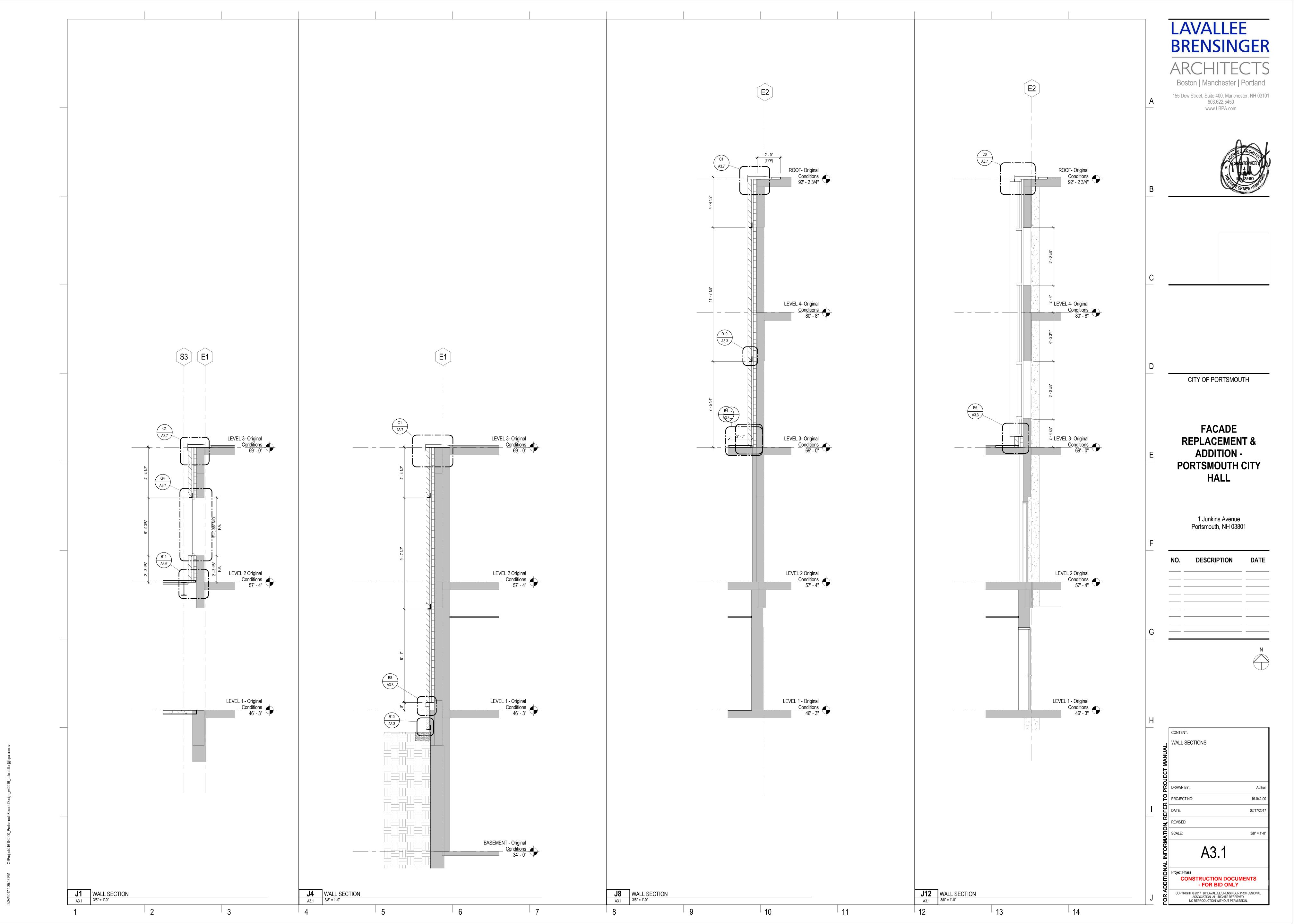


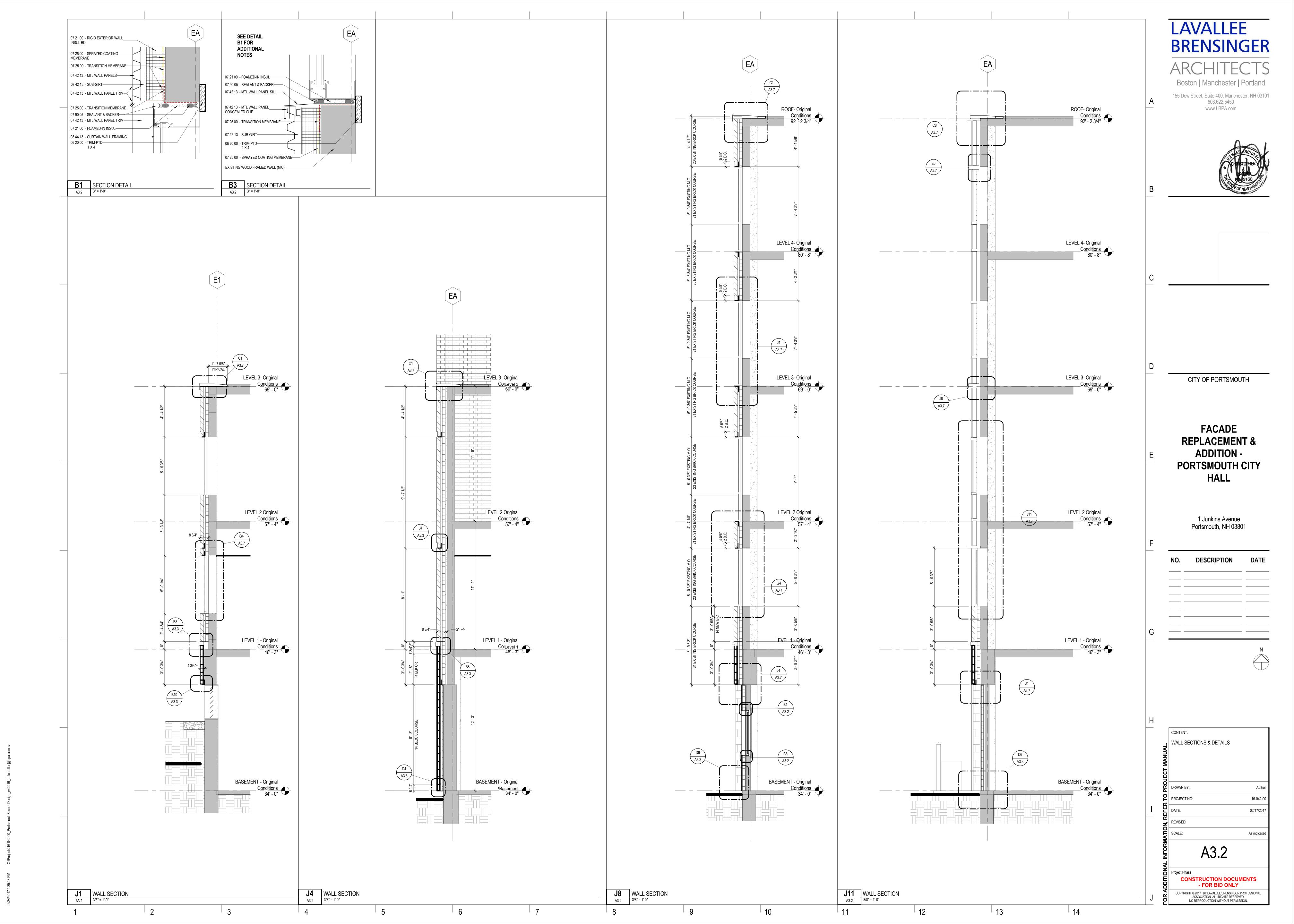
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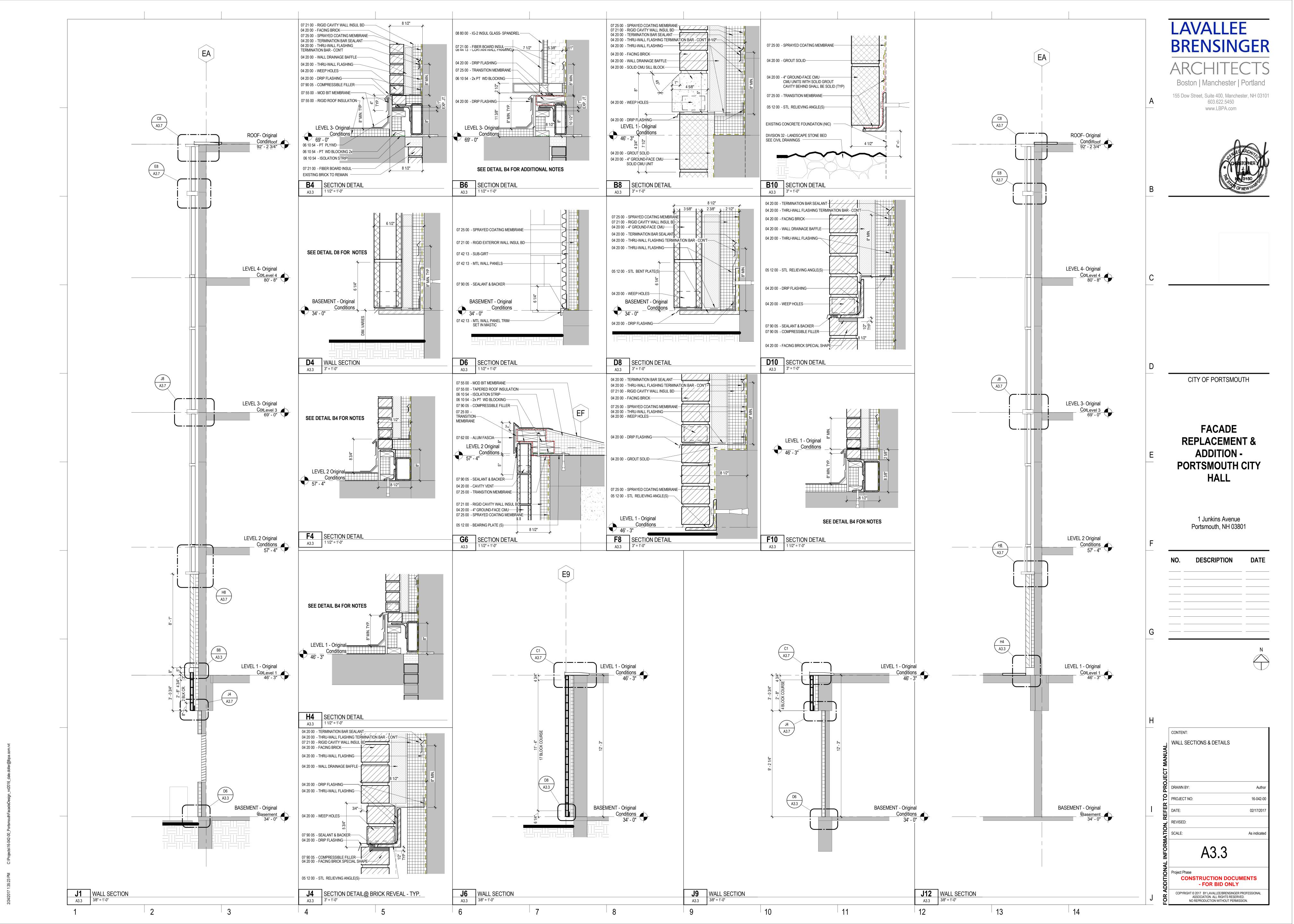


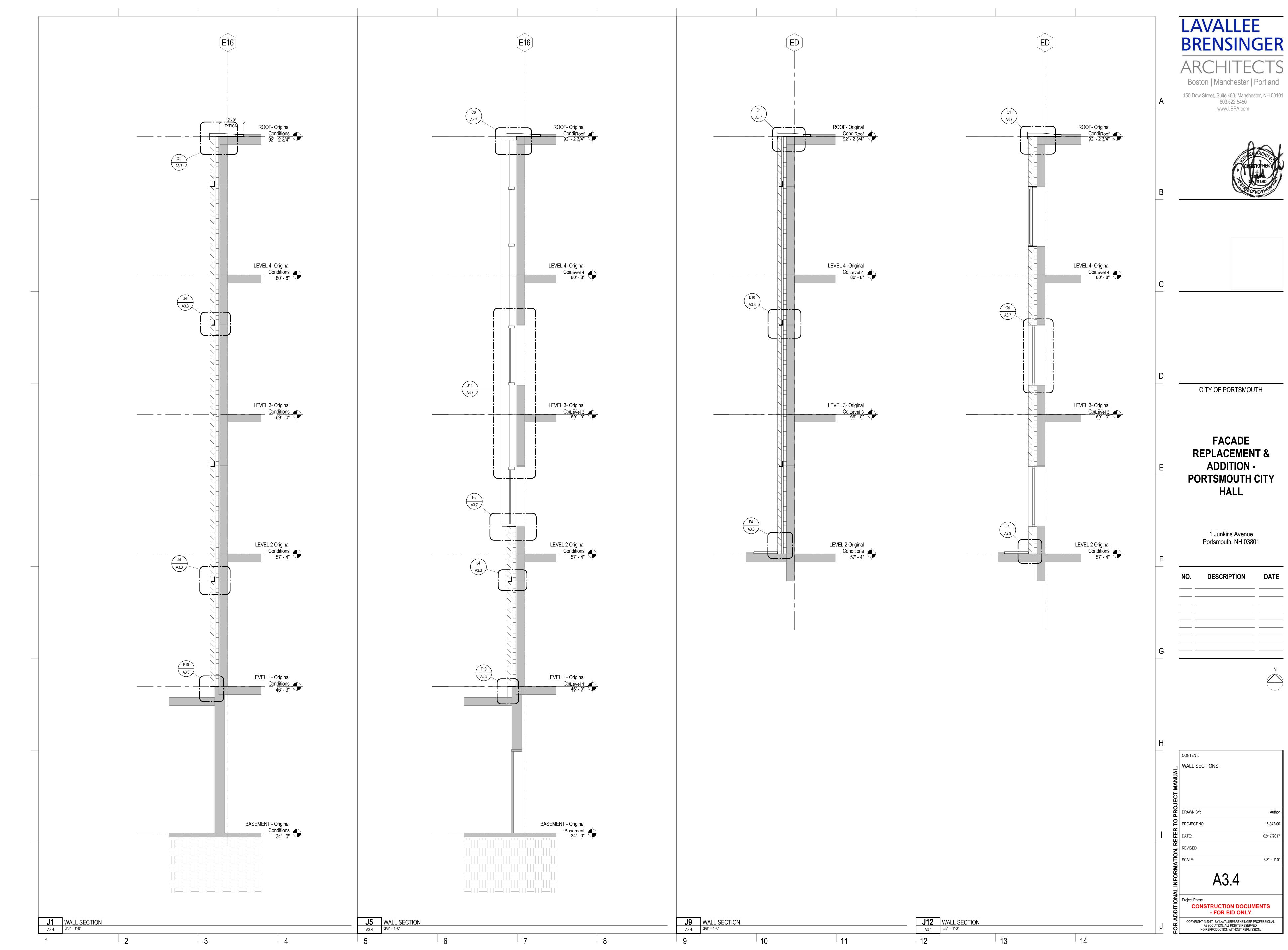
Author 16-042-00



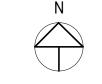


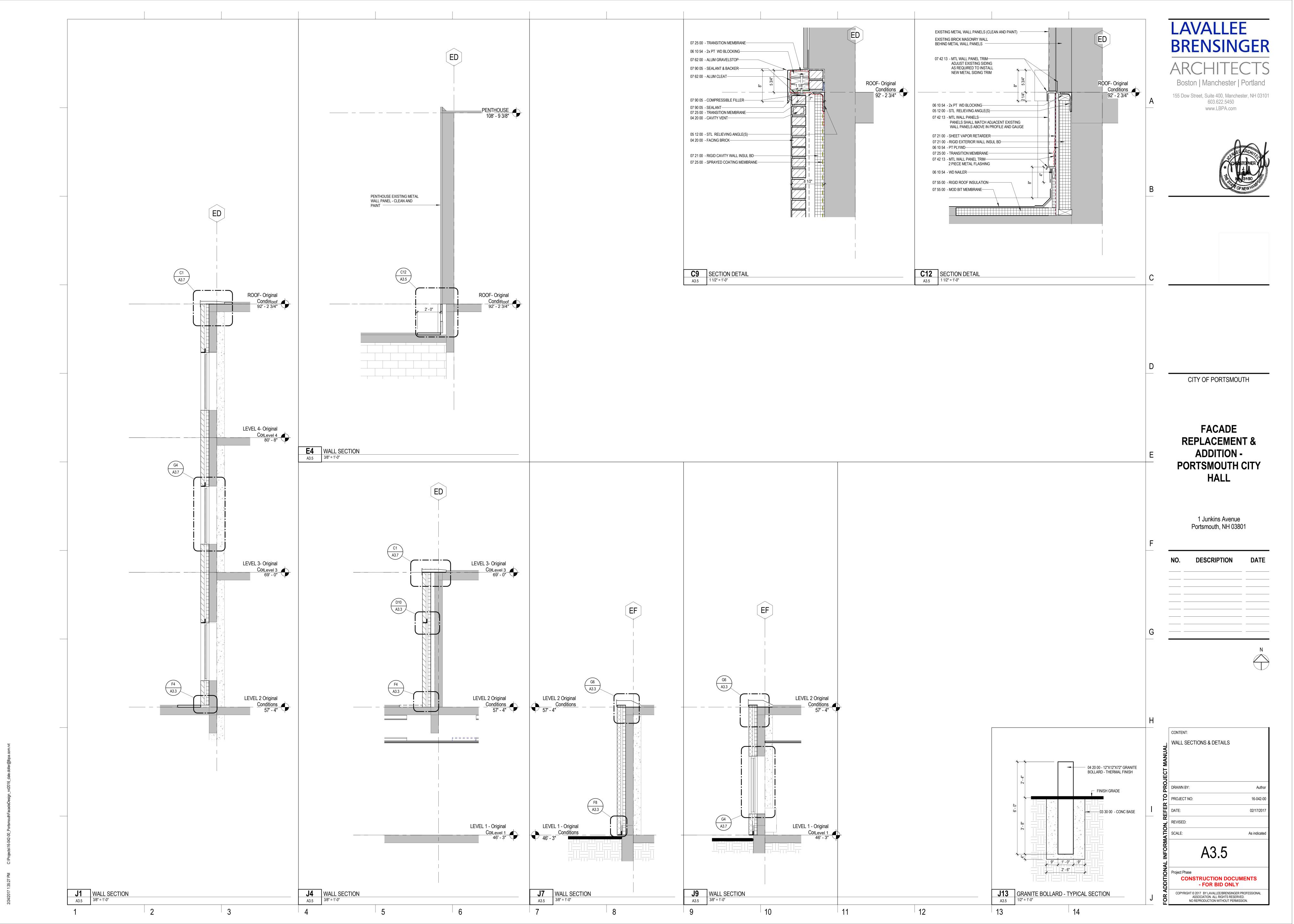


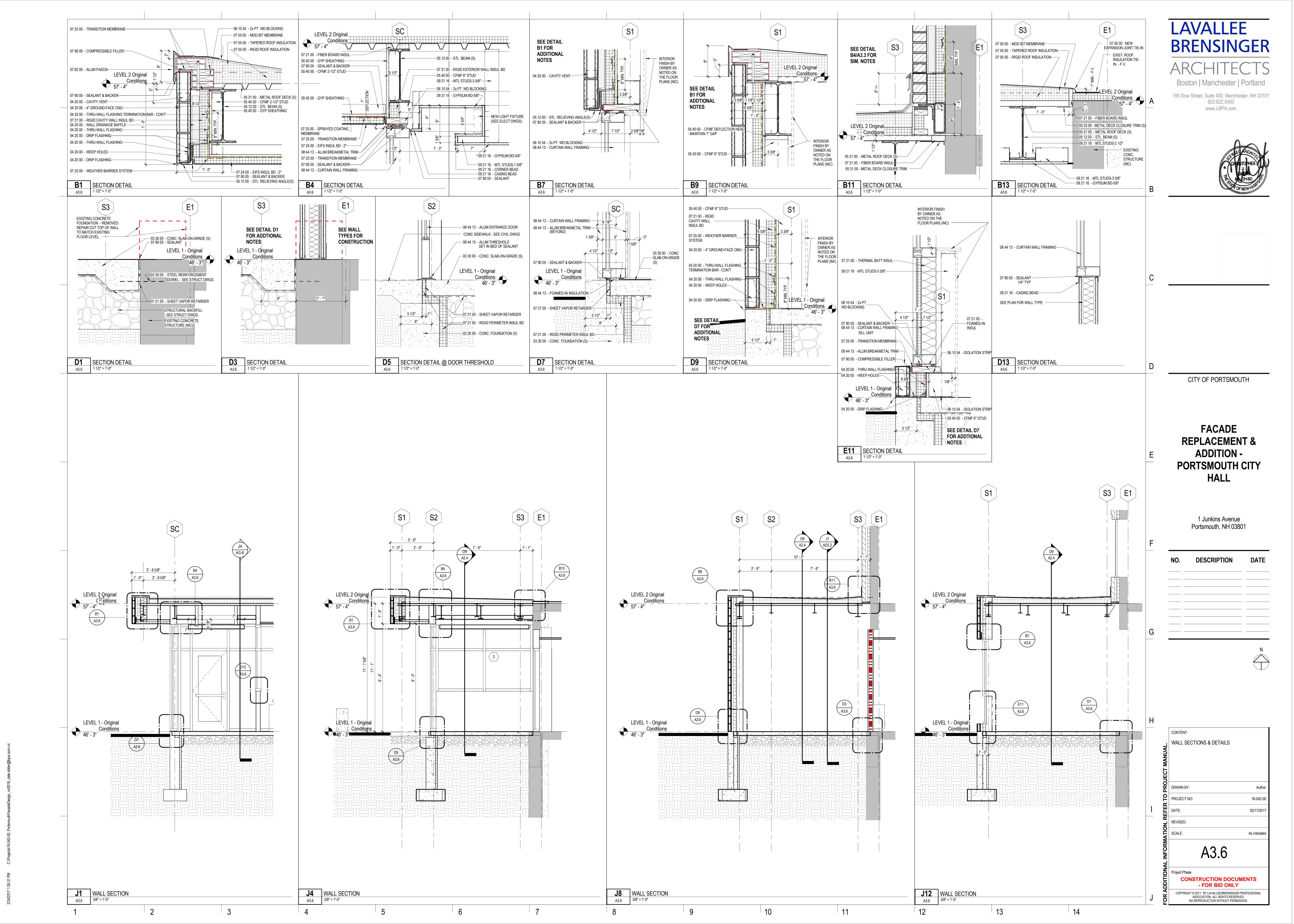


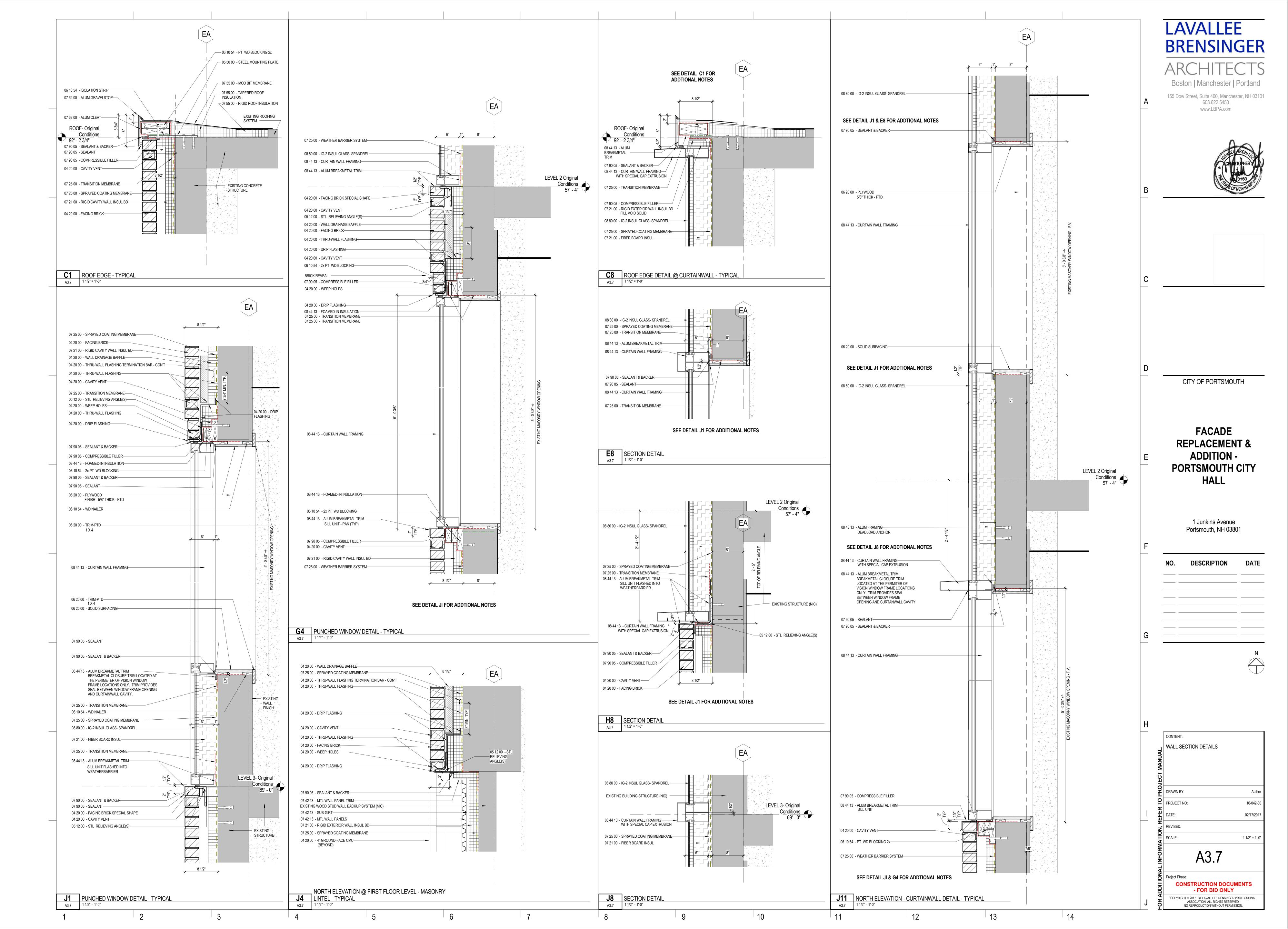






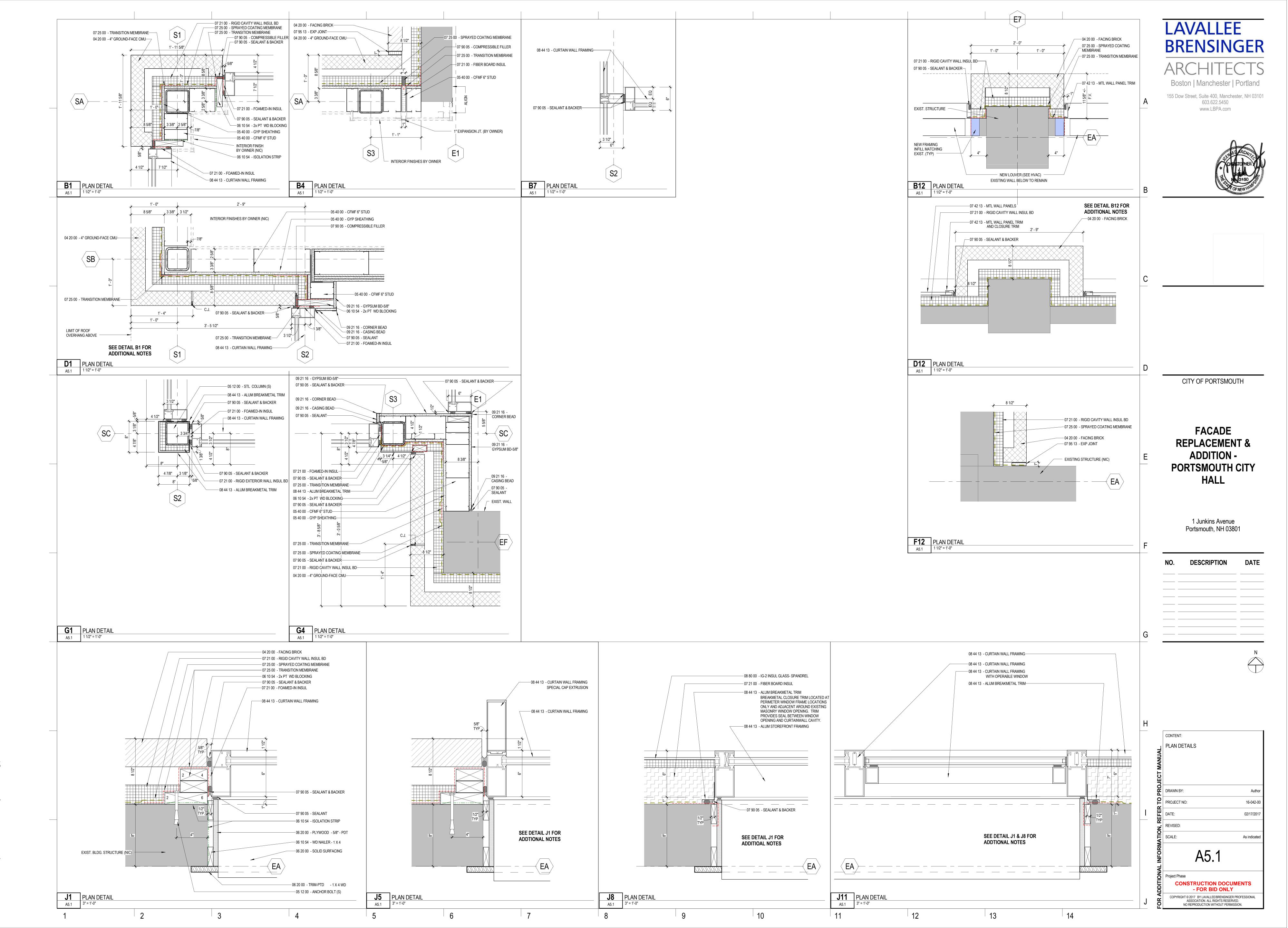






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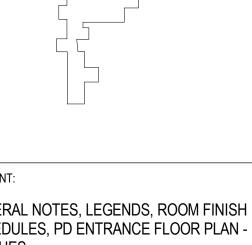






REPLACEMENT & PORTSMOUTH CITY

NO.	DESCRIPTION	DATE



CONTENT: GENERAL NOTES, LEGENDS SCHEDULES, PD ENTRANCE FINISHES	
DRAWN BY:	Author
PROJECT NO:	16-042-00
DATE:	02/17/2017
REVISED:	
SCALE:	As indicated
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Project Phase CONSTRUCTION DO	CUMENTS ILY
	SCHEDULES, PD ENTRANCE FINISHES DRAWN BY: PROJECT NO: DATE: REVISED: SCALE: All.0 Project Phase

GENERAL NOTES 1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTION 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 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. 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. 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 NEW HAMPSHIRE BUILDING 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. **DESIGN LOADS** 1. BUILDING CODE: NEW HAMPSHIRE BUILDING CODE INTERNATIONAL BUILDING CODE, 2009 EDITION INTERNATIONAL EXISTING BUILDING CODE. 2009 EDITION ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES OCCUPANCY CATEGORY: II, PER CITY OF PORTSMOUTH PROJECT DOES NOT NEED TO BE CONSIDERED AS AN ESSENTIAL FACILITY 2. LOAD FOR EXISTING BUILDING. A. GRAVITY LOADS: NO CHANGE OR INCREASE IN

B. LATERAL LOADS: NO CHANGE TO DEMAND-CAPACITY RATIO. LATERAL UPGRADES NOT REQUIRED PER IEBC. 3. LOAD FOR ADDITION AND NEW FACADE ELEMENTS: A. DESIGN FLOOR LIVE LOADS: 100 PSF **MEETING** 100 PSF ROOMS:. B. DESIGN ROOF SNOW LOAD: 50 PSF GROUND SNOW LOAD (Pg):. SNOW EXPOSURE FACTOR (Ce): SNOW LOAD IMPORTANCE FACTOR (Is):.. SNOW LOAD THERMAL FACTOR (Ct): 38.5 PSF + DRIFT FLAT ROOF SNOW LOAD (Pf):... C. DESIGN WIND LOAD: BASIC WIND 100 MPH WIND LOAD IMPORTANCE FACTOR -44.5psf/24.5psf EXPOSURE:... INTERNAL PRESSURE -26.0psf/24.5psf COEFFICIENT:.. COMPONENTS & CLADDING PER ASCE 7-05 WALL PRESSURES (AREA=50 sq. ft.) WALL PRESSURES (AREA=50 sq. ft.) D. DESIGN SEISMIC LOADS: EQUIVALENT LATERAL FORCE PROCEDURE SEISMIC OCCUPANCY CATEGORY: SEISMIC IMPORTANCE FACTOR 0.355 MAPPED SPECTRAL RESPONSE ACCELERATIONS: D (UNKNOWN) SEISMIC SITE CLASS:. SPECTRAL RESPONSE COEFFICIENTS: **BUILDING FRAME** SYSTEM MOMENT RESISTING FRAME SYSTEM SEISMIC DESIGN CATEGORY:... BASIC STRUCTURAL X: 3.0 SYSTEM:... Y: 3.0 X: 0.120 Y: 0.120 BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR

SEISMIC RESISTANCE

RESPONSE MODIFICATION FACTOR

SEISMIC RESPONSE COEFFICIENT

FOUNDATION NOTES (SOIL SUPPORTED

- 1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH REPORT LISTED BELOW, THE RECOMMENDATIONS OF THE REPORT ARE PART OF THIS WORK. REFER TO THIS REPORT FOR SPECIFIC RECOMMENDATIONS. REPORT PENDING
- 2. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FOOTINGS BEARING ON SUITABLE 2. STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNDISTURBED NATIVE SOILS AND/OR NEW COMPACTED STRUCTURAL FILL EXTENDING TO UNDISTURBED NATIVE SOIL PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. REFER TO THIS REPORT FOR SPECIFIC BEARING RECOMMENDATIONS.
- 3. ALLOWABLE BEARING CAPACITY 2,000 PSF (ASSUMED)
- 4. EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 4 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
- 5. NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL UPGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- 6. REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE
- 7. SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION. SUCH AS DISTURBANCE FROM RAIN OR FROST. SURFACE RUNOFF SHALL BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDATION EXCAVATIONS SHALL BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. GROUNDWATER SHOULD BE ANTICIPATED FOR EXCAVATIONS AND APPROPRIATE DEWATERING MEASURES SHALL BE EMPLOYED.
- . EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ANY ADJACENT STRUCTURES. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.

CONCRETE NOTES

REQUIREMENTS.

- CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (248) 848-3800.
- CONCRETE FOUNDATIONS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI. CONCRETE SLABS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI, U.N.O. EXTERIOR SLAB-ON-GRADE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO. AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS FOR ADDITIONAL
- 3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- 4. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE.
- 5. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
- 6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS.
- 7. FIBER REINFORCEMENT SHALL BE TYPE III SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
- 8. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS
- NOTED OTHERWISE, SHALL BE AS FOLLOWS: A. SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH. 3.0" B. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
- #5 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5" #6 THROUGH #11 BARS, 2.0" SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER WALLS, SLABS, JOISTS #11 BARS AND SMALLER, 1.0" BEAMS, GIRDERS, AND COLUMNS; ALL REINFORCEMENT, 1.5"
- 9. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPLICES PER THE SCHEDULE THIS DRAWING, FOR ALL REINFORCING UNLESS OTHERWISE SHOWN ON PLAN.
- 10. WELDING OF REINFORCEMENT IS NOT PERMITTED
- 11. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS TYPICAL DETAILS. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
- 12. CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS. OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED. DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/ GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
- 13. SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS
- A. FOOTINGS AND WALLS MAX LENGTH 40'-0" OR 15'-0" FROM ANY CORNER** B. SLABS ON GRADE
- SEE FOUNDATION PLAN ** EXCEED ONLY WHERE INTERMEDIATE CONTRACTION JOINTS ARE PROVIDED. MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE
- 14. ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR RODS THAT ARE TO BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED.
- 15. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "5-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP.
- 16. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE FLUCTUATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.
- 17. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
- 18. ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED TO ENSURE THE CORRECT POSITIONS OF EMBEDMENTS. "WET SETTING" OF EMBEDMENTS INTO CONCRETE IS STRICTLY PROHIBITED. EMBEDMENTS INCLUDE, BUT NOT BY LIMITATION, REINFORCEMENT, REINFORCING DOWELS, EMBEDDED PLATES, ANCHOR RODS, ANCHOR INSERTS, SLEEVES, LOAD TRANSFER PLATES, DIAMOND DOWELS, AND

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",
- 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 (ŚC) 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)
- 7. STRUCTURAL STEEL FINISHES: - HD GALVANIZE ALL STEEL FOR FACADE SUPPORT AND OUTSIDE BUILDING ENVELOPE. TOUCH UP HD AFTER WELDING AND WHERE DAMAGE WITH APPROVED RICH ZINC PAINT, BRUSH APPLIED. PRIME PAINT ALL INTERIOR STEEL
- 8. PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE OF BEAM WEB AT BEAMS FRAMING OVER COLUMNS AND AT BEAMS SUPPORTING COLUMNS ABOVE.
- . 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.
- 10. 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.
- 11. ANCHORS - SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION, TYP. - ADHESIVE ANCHORS INTO CONCRETE: HILTI HIT TZ EPOXY WITH HILTI HIT HY-200. PROVIDE STAINLESS STEEL AT ALL FACADE APPLICATIONS. - ADHESIVE ANCHORS INTO MASONRY: HILTI HIT TZ EPOXY WITH HILTI HIT HY-70. PROVIDE STAINLESS STEEL AT ALL FACADE APPLICATIONS.

METAL DECK

- 1. THE METAL ROOF DECK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO THE FOLLOWING STANDARDS: ASTM A1008, GRADE C, D OR ASTM A653, STRUCTURAL QUALITY, GRADE 33 OR HIGHER
- 2. ROOF DECK SHALL BE AS NOTED ON THE DRAWINGS (OR EQUIVALENT).
- 3. FOR DECK ATTACHMENTS, PENETRATIONS AND ACCESSORIES REFER TO

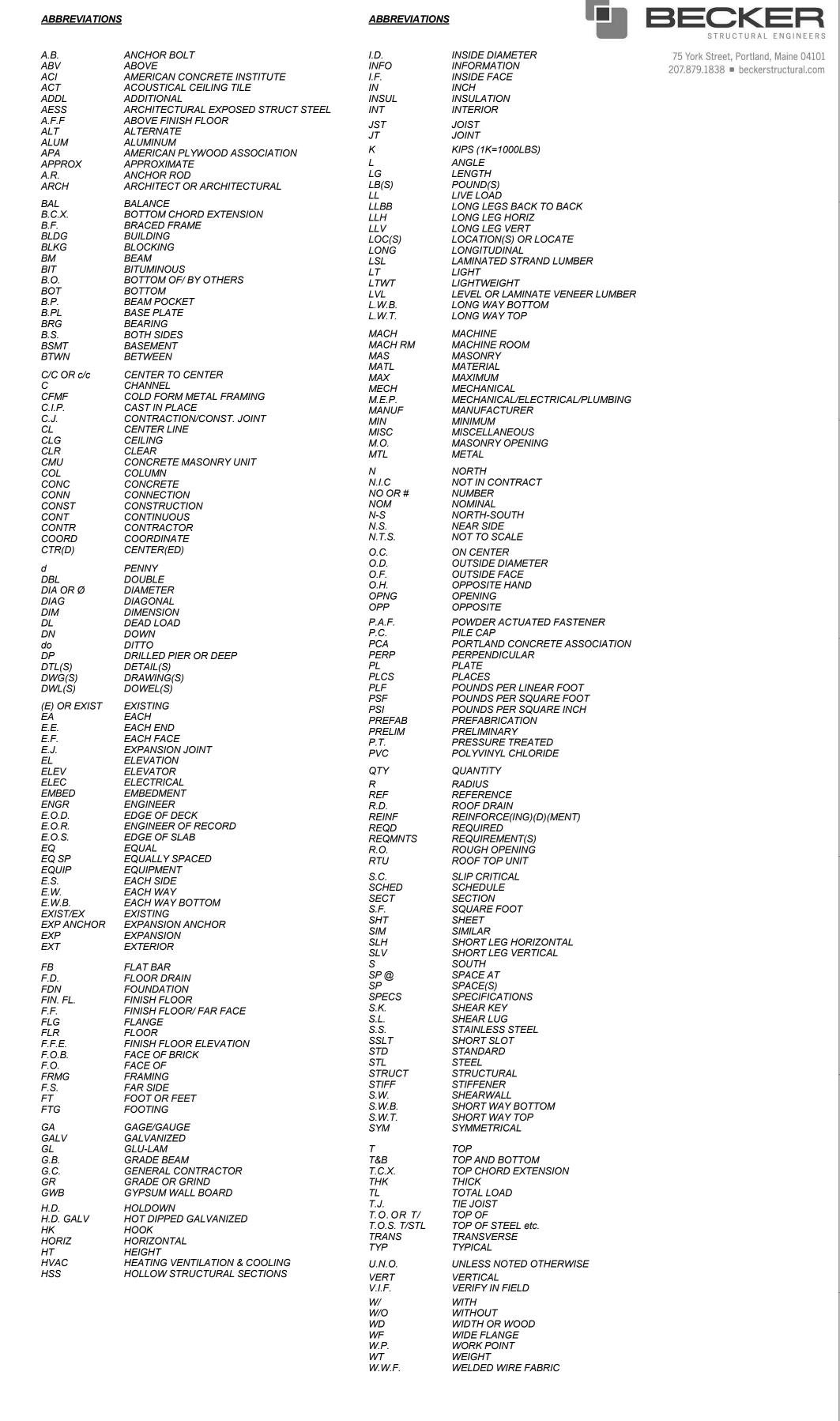
LINTELS

1. THE FOLLOWING LINTELS SHALL BE USED FOR MASONRY OPENINGS, U.N.O. ON DRAWINGS:

> MASONRY OPENING LINTEL SIZE UP TO 3'-0" L 3 1/2 x3 1/2 x 5/16 3'-1" TO 4'-6" L 4 x 3 1/2 x 5/16 (LLV) 4'-7" TO 6'-0" L 5 x 3 1/2 x 5/16 (LLV) 6'-1" TO 8'-0" L 6 x 3 1/2 x 5/16 (LLV)

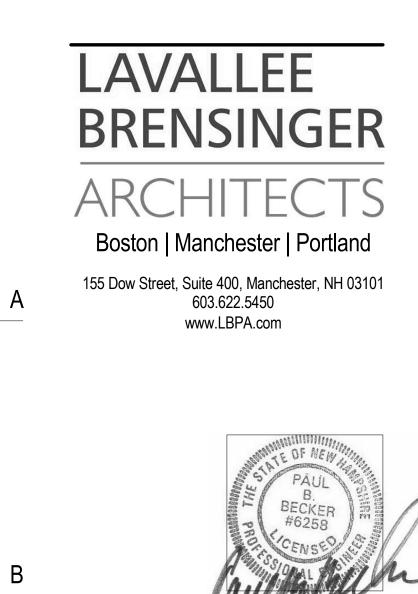
- PROVIDE ONE ANGLE FOR EACH 4" WALL THICKNESS. FOR 6" WALL THICKNESS, PROVIDE WT OR BUILT-UP SECTION WITH PROPERTIES EQUAL TO OR GREATER THAN 1 ½ TIMES THE ANGLES PROPERTIES FOR A 4" WALL THICKNESS.
- 3. PROVIDE 8" OF BEARING AT EACH END OF ALL LINTELS.
- 4. ALL EXTERIOR LINTELS SHALL BE HOT-DIPPED GALVANIZED.

REBAR LAP SPLICE TABLE				
DAD 0/75	LAP LENGTH			
BAR SIZE	3,500/4,000 PSI	4,000/5,000 PSI		
#3	30"	24"		
#4	36"	32"		
#5	48"	42"		
#6	56"	48"		
#7	81"	72"		
#8	93"	80"		



13

14



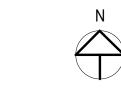
CITY OF PORTSMOUTH

CITY HALL NORTH **BUILDING FACADE** REPLACEMENT

> 1 JUNKINS AVENUE PORTSMOUTH, NH

> > 03801

NO.	DESCRIPTION	DATE

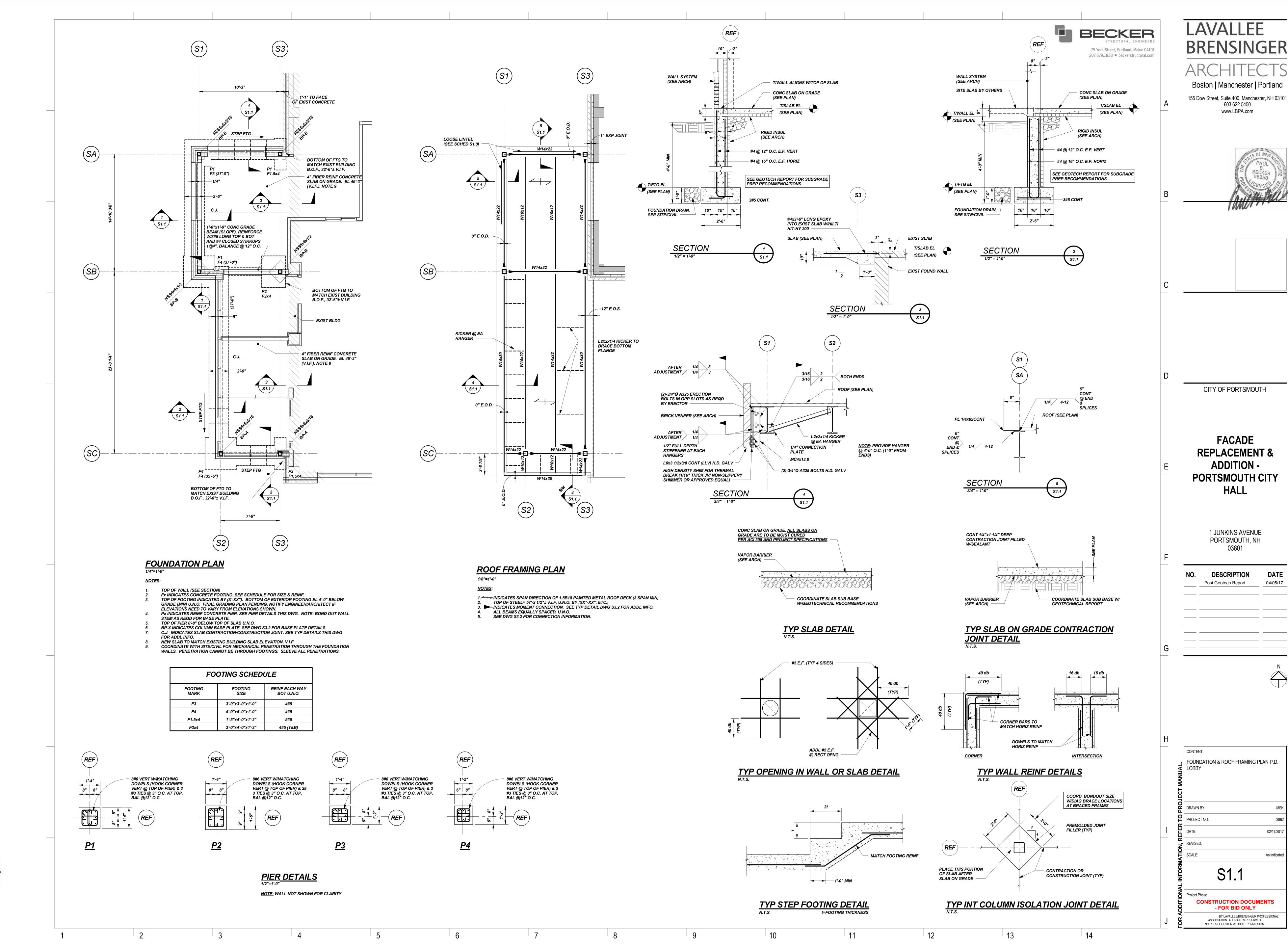


CONTENT: **GENERAL NOTES** DRAWN BY: PROJECT NO: DATE: 02/17/2017 REVISED: SCALE: As indicated **CONSTRUCTION DOCUMENTS** - FOR BID ONLY

BY LAVALLEE/BRENSINGER PROFESSIONAL

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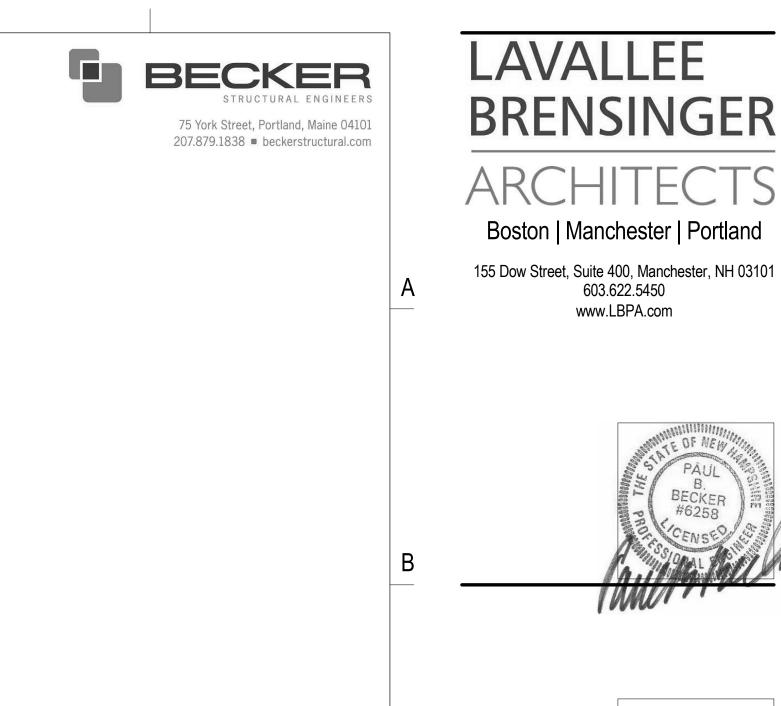


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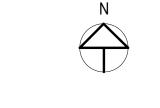
CITY OF PORTSMOUTH

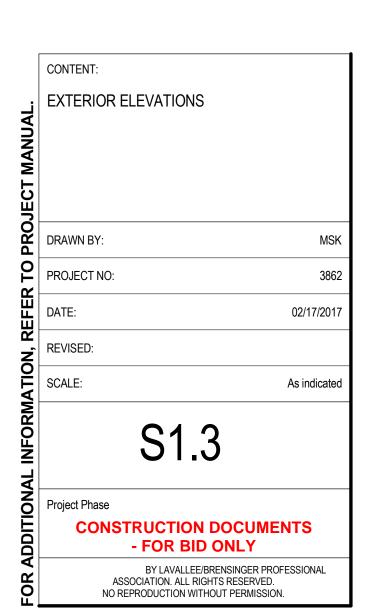
www.LBPA.com

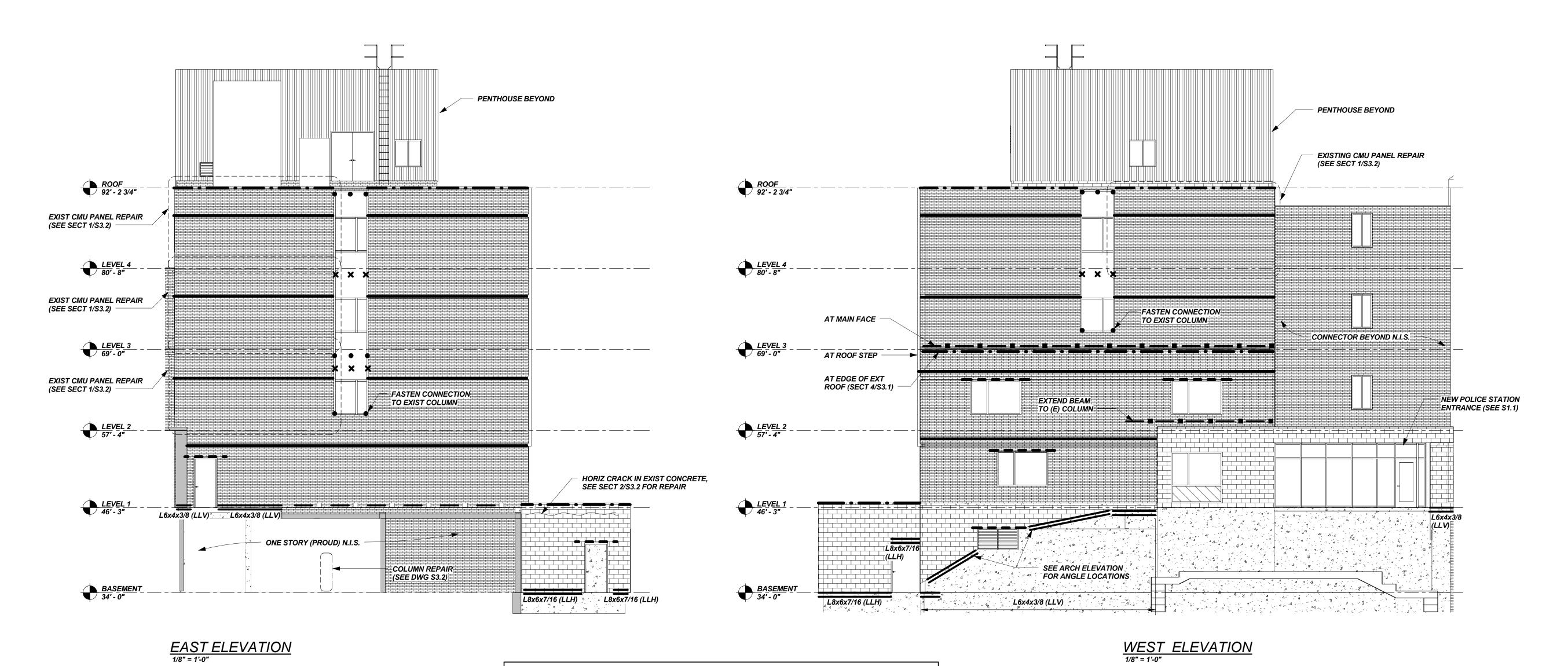
FACADE REPLACEMENT & ADDITION -PORTSMOUTH CITY **HALL**

> 1 JUNKINS AVENUE PORTSMOUTH, NH 03801

NO.	DESCRIPTION Post Geotech Report	DATE 04/05/17
		· -







LINE TYPE & SYMBOL LEGEND RELIEVING WINDOW ANGLE (SEE SECT 2/S3.1) RELIEVING ANGLE AND PLATE (SEE SECT 3/S3.1) ANGLE ABOVE LOW ROOF LOOSE LINTEL (SEE SCHED DWG S1.0) ATTACHED TO SPANDREL & COLUMNS (SEE SECT 8/S3.1) -----ANGLE ABOVE LOW ROOF BEARING ON ROOF (SEE SECT 8A/S3.1) CONT TOP OF WALL PLATE (SEE SECT 4/S3.1) CONT RELIEVING ANGLE (SEE SECT 1/S3.1) FLASHING SUPPORT (SEE SECT 12/S3.1) -/-/-/-/-/-/-/-/-/-/-/-/-/-BASE ANGLE (SEE ELEV FOR ANGLE AT PENTHOUSE (SEE SECT 9/S3.1) SIZE & SEE SECT 7/S3.1) -x -x -x -x -xCURTAIN WALL GRAVITY AND LATERAL CONNECTION (SEE SECT 5/S3.1) CURTAIN WALL LATERAL ONLY CONNECTION (SEE SECT 6/S3.1)

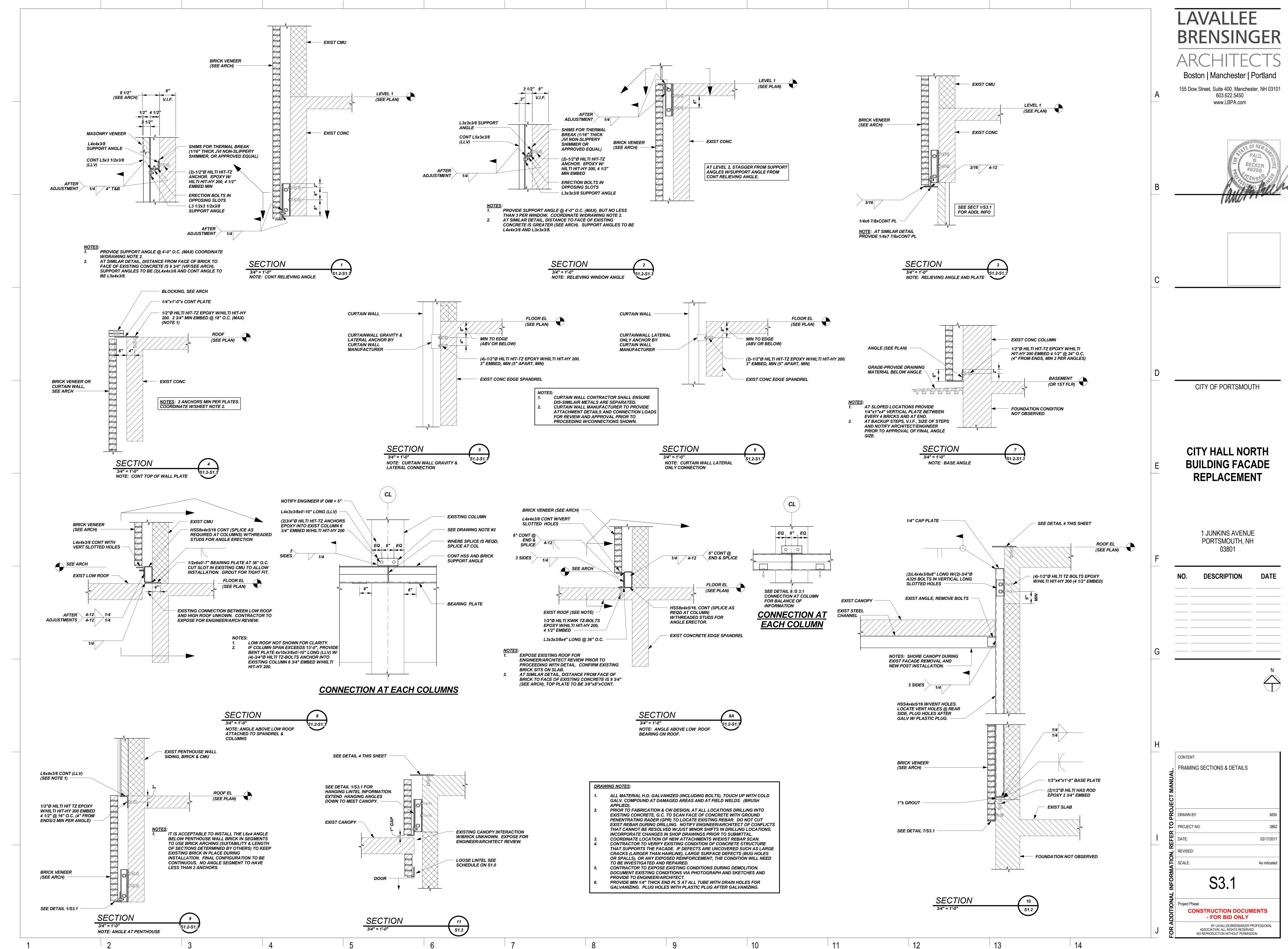
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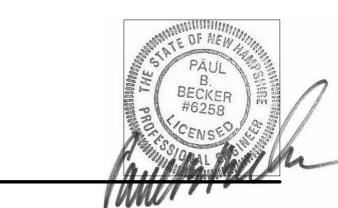
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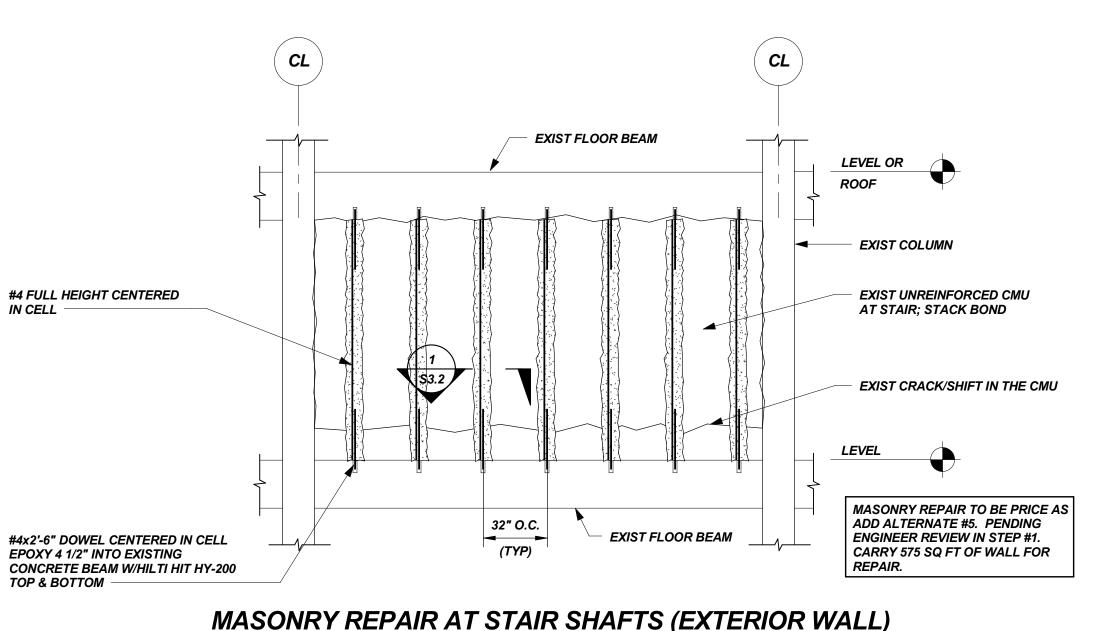
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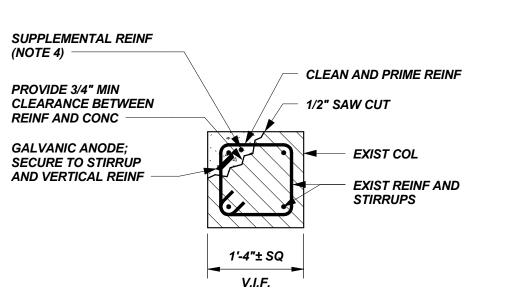




SECTION

(FOUR LOCATIONS-WORK TO BE PERFORMED FROM THE EXTERIOR PRIOR TO INSTALLATION OF NEW FACADE MATERIALS) **MASONRY REPAIR AT STAIR SHAFTS (EXTERIOR WALL)**:

- WHEN EXISTING BRICK FAÇADE IS REMOVED AND MASONRY WALL IS EXPOSED, CONTACT ENGINEER/ARCHITECT FOR
- BREAK EXISTING FACE SHELL OF ONE CMU CELL FOR THE PANEL OF THE PANEL OPENING UP A STACK IN THE CMU. REPEAT AT 32" OC. REMOVAL SHOULD BE LIMITED TO OUTSIDE FACE SHELL AND CARE SHOULD BE TAKEN TO NOT DAMAGE HORIZONTAL JOINT REINFORCEMENT.
- INSTALL NEW DOWELS AT TOP AND BOTTOM OF OPEN STACKS AND VERTICAL REINFORCEMENT AS SHOWN IN REPAIR DETAIL. DOWELS AND REINFORCEMENT TO BE INSTALLED CENTERED IN CELLS. REINFORCEMENT AND DOWEL TO BE GRADE 60 REINFORCING BAR CONFORMING TO ASTM A615.
- GROUT OPEN SHAFT SOLID WITH MASONRY GROUT CONFORMING TO ASTM C476, MIN 2,000PSI. CURE PER GROUT PER MANUFACTURER'S INSTRUCTION. PROTECT WITH SHEETING/INSULATION IF TEMPERATURE IS EXPECTED TO BE BELOW 32 DEGREE F.

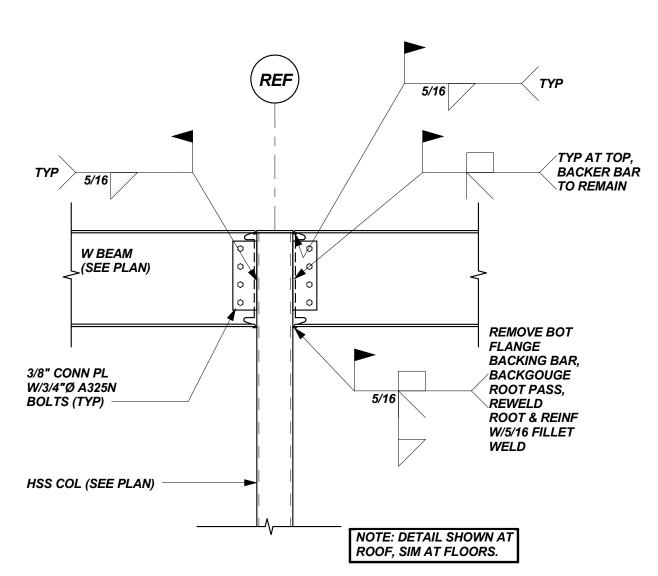




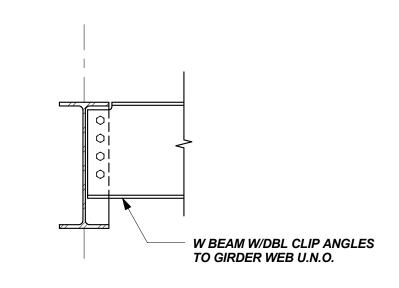
BASE OF COLUMN REINFORCEMENT AND CONCRETE REPAIR

- REINFORCEMENT AND DIMENSION SHOWN ARE ASSUMED, ACTUAL LOCATION AND QUANTITY MAY VARY. VERIFY IN FIELD AND NOTIFY ENGINEER/ARCHITECT OF DISCREPANCIES. TEMPORARY SHORING SHALL BE PLACED DURING THE DURATION OF THE RESTORATION OF THE COLUMN. SHORING TO REMAIN IN PLACE UNTIL THE REPAIR MATERIAL HAVE REACHED COMPRESSIVE STRENGTH.
- TEMPORARY SHORING AND SHORING DESIGN BY CONTACTOR AND CONTACTOR'S ENGINEER. SUBMIT SHORING FOR REVIEW PRIOR TO PROCEEDING WITH THE WORK. SAW CUT PERIMETER OF REPAIR AREA TO A DEPTH OF 1/2" BELOW THE REINFORCEMENT. REMOVE ALL DETERIORATED, DELAMINATED AND UNSOUND CONCRETE (UNTIL AGGREGATE PARTICLE REMOVED ARE BEING BROKEN RATHER THAN BEING REMOVED FROM THE CEMENT MATRIX). IMPACT CHIPPING HAMMER ARE LIMITED
- TO 15LBS. SALVAGE ALL EXISTING REINFORCEMENT. CLEAN REINFORCEMENT. CONTACT ENGINEER/ARCHITECT FOR EVALUATION OF EXISTING REINFORCEMENT AND DETERMINATION OF NEW SUPPLEMENTARY REINFORCEMENT IF REQUIRED. IF REQUIRED, INSTALL NEW REINFORCEMENT AT ENGINEER'S DIRECTION AND TIE TO EXISTING REINFORCEMENT. APPLY PROTECTIVE COATING TO REINFORCEMENT. INSTALL GALVANIC ANODE, SECURE TO STIRRUP AND VERTICAL
- REINFORCEMENT. APPLY POLYMER ADHESIVE BONDING AGENT TO ALL CONCRETE SURFACE. COAT WITH CEMENT SLURRY. INSTALL REPAIR MATERIAL: ONE-COMPONENT, EARLY STRENGTH GAINING, CEMENTITIOUS REPAIR MATERIAL WITH COMPRESSIVE STRENGTH OF 5,000 PSI. CURE PER MANUFACTURER RECOMMENDATION UNTIL MATERIAL

IS AT FULL STRENGTH). THICKENED REPAIR AS NECESSARY TO ACQUIRE 2" MIN CONCRETE COVER.



TYP W BEAM TO HSS COL MOMENT CONN DETAIL



TYP BEAM TO BEAM CONN DETAIL

SIMPLE SHEAR BEAM CONNECTION SCHEDULE				
BEAM SIZE	DESIGN REACTION	MIN No. BOLTS		
W10	10K	2		
W14	15K	3		

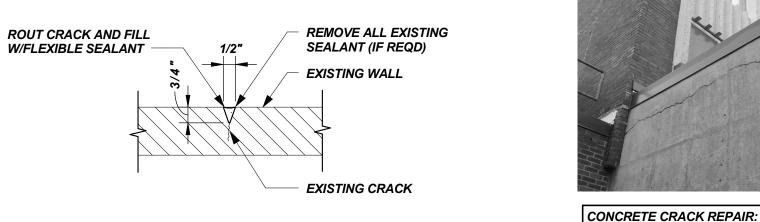
SIMPLE SHEAR CONNECTIONS NOTES:

REQUIREMENTS.

- SIMPLE SHEAR CONNECTIONS SHALL BE SELECTED FROM THE AISC "MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION" USING THE ABOVE REFERENCED REACTIONS AND CRITERIA. REACTIONS INDICATED ARE UNFACTORED (SERVICE LEVEL LOADS). MORE BOLTS THAN REFERENCED IN THE "MINIMUM" SECTIONS ABOVE MAY BE REQUIRED FOR LOAD
- CONNECTIONS ARE SUBJECT TO REVIEW ON THE STEEL SHOP DRAWINGS. ALL BOLTS SHALL BE A325 FOR SIMPLE SHEAR CONNECTIONS, MIN 3/4"Ø. MINIMUM WELD SIZE SHALL BE 5/16". MINIMUM ANGLE/PLATE THICKNESS SHALL BE 3/8". SEE TYP BEAM CONNECTION DETAIL.

CONCRETE CRACK REPAIR:

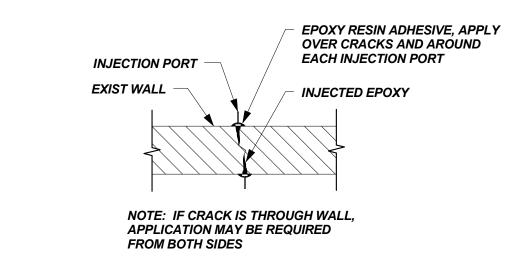
- (ONE LOCATION-WORK TO BE PERFORMED PRIOR TO INSTALLATION OF NEW FACADE MATERIALS)
- EXPOSE CONDITION AND NOTIFY ENGINEER/ARCHITECT FOR REVIEW. PROVIDE ACCESS TO BOTH INTERIOR AND EXTERIOR OF WALL FOR EVALUATION.
- BASE ON EVALUATION, ENGINEER WILL DIRECT ON REPAIR METHOD (I.E. ROUT AND SEAL OR EPOXY INJECTION). SEE PROCEDURE FOR BOTH BELOW.





ALTERNATE COST FOR ROUT AND SEAL

PENDING ENGINEER REVIEW.



TYP WALL CRACK, ROUT AND SEAL

NEW REINFORCEMENT

BREAK FACE SHELL TO

S3.2

ALLOW FOR REPAIR

<u>OUTSIDE</u>

- CENTER ROUTED GROOVE ON CRACK.
- REMOVE ALL LOOSE AND DETERIORATED MATERIAL. ALL JOINT-WALL SURFACES MUST BE CLEAN, SOUND, AND FROST FREE. JOINT WALLS MUST BE FREE OF OILS, GREASE, CURING COMPOUND RESIDUES AND ANY OTHER FOREIGN MATTER THAT MIGHT PREVENT BOND. THIS SHOULD BE ACCOMPLISHED BY BLAST CLEANING OR EQUIVALENT MECHANICAL MEANS.
- CONFORM TO ALL MANUFACTURERS PREPARATION REQUIREMENTS. JOINT PREPARATION SHALL BE CONFIRMED BY SEALANT INSTALLER. INSTALLATION OF SEALANT SHALL IMPLY PROPER JOINT PREPARATION.

CRACK SEALANT INSTALLATION: INSTALLATION SHALL CONFORM TO MANUFACTURERS REQUIREMENTS. INSTALL SEALANT EVENLY AND RECESS 1/8" BELOW SURFACE. DO NOT OVERFILL

TYP WALL CRACK REPAIR BY EPOXY INJECTION

PREPARATION:

- CLEAN THE AREA SURROUNDING THE CRACK OF ALL DETERIORATED CONCRETE, EFFLORCESENCE, OIL, GREASE AND OTHER CONTAMINANTS DETRIMENTAL TO THE ADHESION OF THE SURFACE SEALING
- EPOXY COMPOUND. CLEAN THE INTERIOR OF THE CRACK WITH AIR UNDER SUFFICIENT PRESSURE TO REMOVE LOOSE
- MATERIALS ENTRAPPED WITHIN THE CRACK. DRILL INJECTION PORT HOLES USING DRILL WITH VACUUM ATTACHMENT TO REMOVE DUST AND DEBRIS
- DETERMINE PORT SPACING BASED ON THE SIZE AND DEPTH OF THE CRACK AND MANUFACTURER'S RECOMMENDATIONS. GENERALLY, SPACE INJECTION PORTS 4-8 INCHES. DRILL HOLES TO A MINIMUM DEPTH OF 5/8", EXERCISING CARE IN ALIGNING THE HOLE ALONG THE PLANE
- INSERT PORTS APPROXIMATELY 1/2" ALLOWING FOR SMALL RESERVOIR BELOW THE INJECTION PORT.
- SEAL CRACK SURFACE AND INJECTION PORTS W/ EPOXY PER MANUFACTURER'S RECOMMENDATIONS. **EPOXY INJECTION:**
- INJECT EPOXY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. BEGIN AT ENTRY PORT OF LOWEST ELEVATION AND CONTINUE UNTIL UNCONTAMINATED EPOXY FLOWS OUT OF THE ADJACENT PORT.
- INJECTION PRESSURE SHALL BE KEPT AS LOW AS PRACTICAL AND SHALL GENERALLY BE BETWEEN 20 AND 30 PSI PLUS ANY HYDROSTATIC HEAD.
 - ENSURE THE CONNECTION BETWEEN THE PORT AND MIX HEAD OF THE INJECTION NOZZLE IS SUFFICIENTLY TIGHT TO PREVENT EPOXY FROM RUNNING OUT ON THE CONCRETE SURFACE. AFTER INJECTION AT A GIVEN PORT IS COMPLETE, THE PORT SHALL BE PLUGGED AND INJECTION STARTED AT NEXT ADJACENT PORT.

PL 3/4x8x1'-0" W/(4)-1 5/16"Ø HOLES FOR

(4)-3/4"Ø x1'-5" LG F1554 GR 36 ANCHOR

TYP BASE PLATE DETAILS

NOTE: PROVIDE 1"± NON-SHRINK GROUT BELOW ALL COLUMN BASE PLATES.

RODS W/12" EMBED & 5" PROJ.

- CLEAN CONCRETE SURFACE AREAS OF EXCESS EPOXY MATERIAL AND INJECTION PORTS AFTER COMPLETING EPOXY INJECTION WORK.
- CLEAN IN A MANNER THAT WILL NOT DAMAGE CONCRETE BY LIGHT SAND BLASTING OR GRINDING. CLEAN EXCESS MATERIAL SO THAT NO EPOXY MATERIAL OR INJECTION PORTS EXTEND BEYOND THE PLANE SURFACE OF THE CONCRETE.

<u>BP-B</u> PL 3/4x12x1'-0" W/(4)-1 5/16"Ø HOLES FOR

14

(4)-3/4"Ø x1'-5" LG F1554 GR 36 ANCHOR

RODS W/12" EMBED & 5" PROJ.

CITY OF PORTSMOUTH

LAVALLEE

Boston | Manchester | Portland

155 Dow Street, Suite 400, Manchester, NH 03101

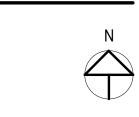
603.622.5450

www.LBPA.com

CITY HALL NORTH BUILDING FACADE REPLACEMENT

1 JUNKINS AVENUE PORTSMOUTH, NH 03801

NO.	DESCRIPTION	DATE
		-



	MSI
	386
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BY LAVALLEE/BRENSINGER PROFESSIONAL

10

TYP COL BASE DETAIL U.N.O.

STD NUT

2x2x1/4 PL WASHER

BOT OF BASE

PLATE EL

T/CONC EL

F1554, GR 36 HEADED

ANCHOR RODS, (SEE

BASEPLATE DETAILS,

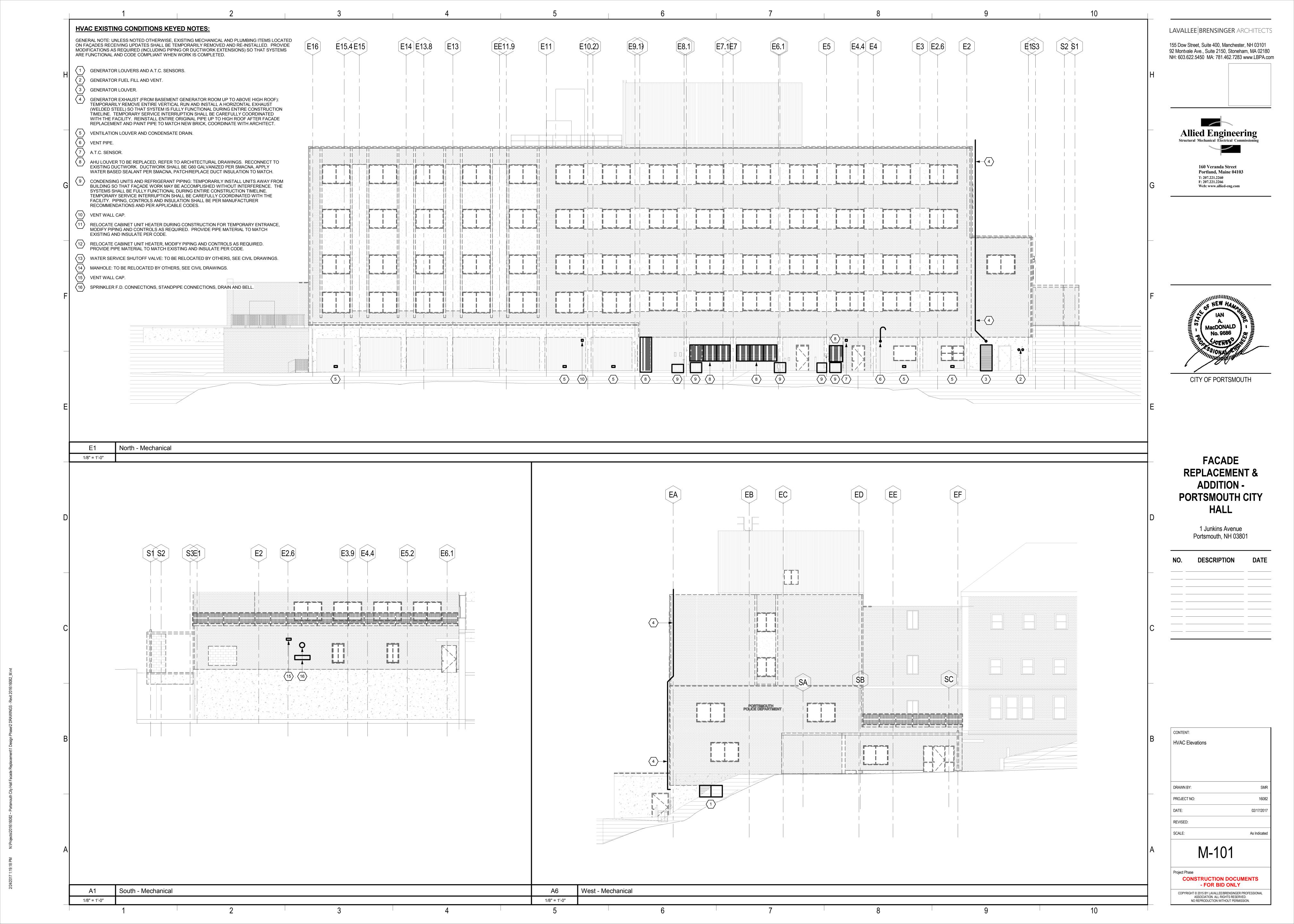
THIS DWG)

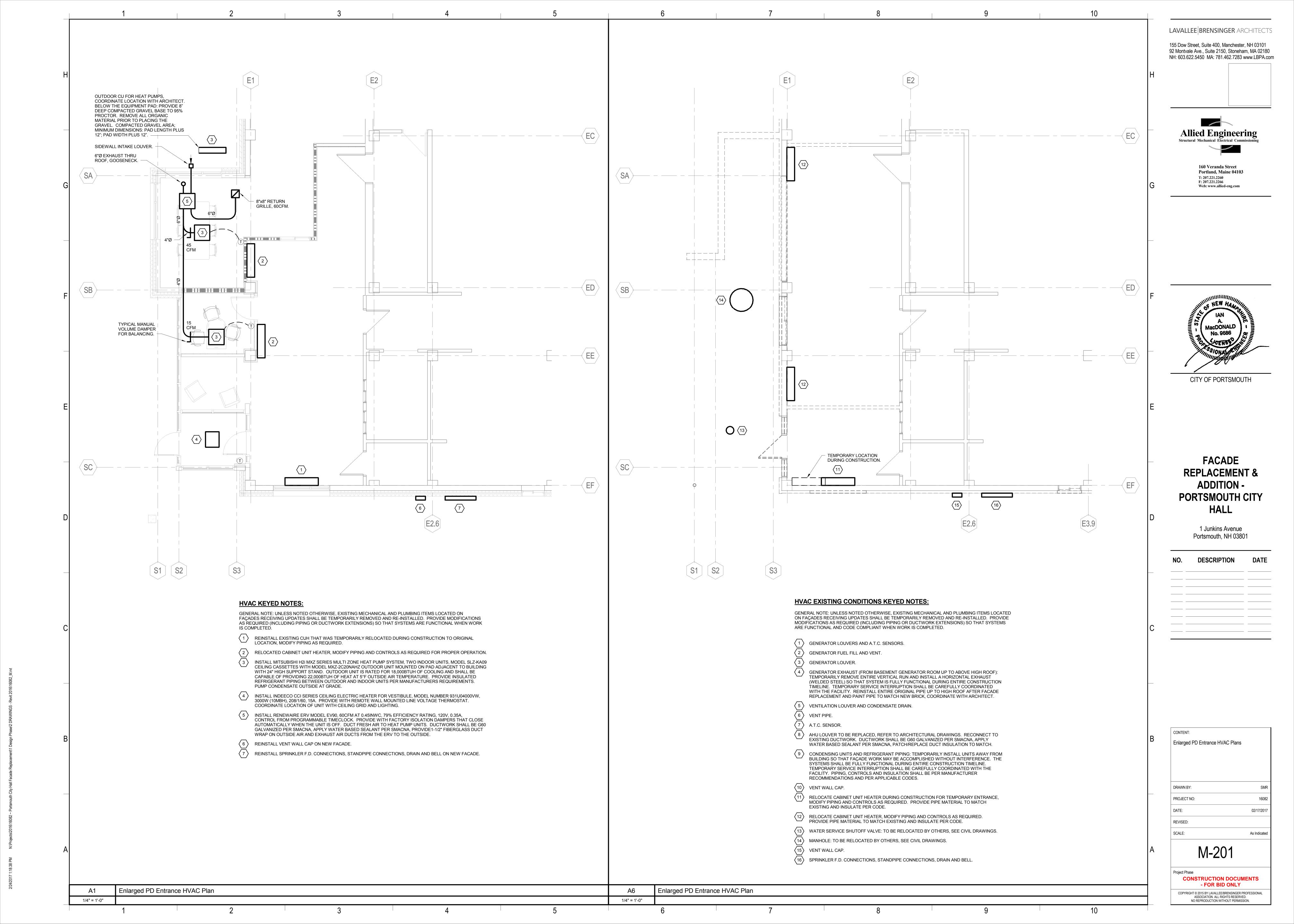
HSS COL (SEE PLAN)

1" (1/4" LEVELING PL +

3/4" NON-SHRINK

GROUT U.N.O.





P. Grounding Conductors: 1. Grounding conductors shall be soft-drawn bare copper

on the drawings, which form a part of this specification. Exact locations are to be determined at the

2. Anything shown on the drawings and not mentioned in the specifications or vice versa shall be provided

3. It is not intended that the drawings shall show every wire, device, fitting, conduit or appliance, but it shall

A. The Contractor shall guarantee all equipment and wiring free from inherent mechanical or electrical defects

1. Toggle Switches: 20A, 277V, 1-pole, ivory specification grade, mount 4'-0" above finished floor at door

a. Operation: Unless otherwise indicated, turn lights on when covered area is occupied and off when

unoccupied; with a time delay for turning lights off, adjustable over a minimum range of 1 to 15

b. Sensor Output: Contacts rated to operate the connected relay, complying with UL 773A. Sensor

120-V ac, and for 1 hp at 120-V ac. Power supply to sensor shall be 24-V dc, 150-mA, Class 2

2) Relay: Externally mounted through a 1/2-inch (13-mm) knockout in a standard electrical

Time-Delay and Sensitivity Adjustments: Recessed and concealed behind hinged door.

e. Indicator: LED, to show when motion is being detected during testing and normal operation of the

g. Automatic Light-Level Sensor: Adjustable from 2 to 200 fc (21.5 to 2152 lx); keep lighting off when

ultrasonic detection methods in area of coverage. Particular technology or combination of technologies

b. Detector Sensitivity: Detect occurrences of 6-inch- (150-mm-) minimum movement of any portion of a human body that presents a target of not less than 36 sq. in. (232 sq. cm), and detect a person of

c. Detection Coverage (Standard Room): Detect occupancy anywhere within a circular area of 1000

1. Ground-Fault Interrupter shall consist of a differential current transformer, solid state sensing circuitry and a circuit interrupter switch. It shall be rated for operation on a 60 Hz, 120-volt, 20-ampere branch

2. Receptacle shall be rated 20 amperes, 125 volts for indoor use and shall be the standard duplex,

1. Wiring shall be enclosed in electrical rigid galvanized steel, intermediate metal conduit, or electrical

b. Terminations for all conduit shall have insulated bushings or insulated throat connectors in

metallic tubing sized in accordance with code requirements for the conductors. Type MC cable may be

c. All conduits shall be substantially supported with approved clips or hangers spaced not to exceed

circuit. Device shall have nominal sensitivity to ground leakage current of five milliamperes and shall

Weatherproof Receptacles shall consist of a duplex GFI receptacle, as specified, mounted in a weatherproof

box with a gasketed, weatherproof, cast metal cover plate. The weatherproof integrity shall not be affected

when heavy duty specification or hospital grade attachment plug caps are inserted. Cover plates on outlet

function to interrupt the current supply for any value of ground leakage current above five milliamperes

on the load side of the device. Device shall have a minimum nominal tripping time of 1/30th of a second.

average size and weight moving not less than 12 inches (305 mm) in either a horizontal or a vertical

2. Dual-Technology Type: Ceiling mounting; detect occupancy by using a combination of PIR and

that controls on-off functions shall be selectable in the field by operating controls on unit.

Receptacles shall be specification grade, mounted 18" above finished floor unless otherwise noted.

E. Duplex Receptacles With Ground-Fault Interrupter shall be an integral unit suitable for mounting in a

c. Relay Unit: Dry contacts rated for 20-A ballast load at 120- and 277-V ac, for 13-A tungsten at

B. Switchbox type occupancy sensors: Adaptive-technology type, 120/277 V, adjustable time delay up to 20

minutes, 180-degree field of view, with a minimum coverage area of 900 sq. ft. Configure for

1. General Description: Wall- or ceiling-mounting, solid-state units with a separate relay unit.

1) Sensor: Suitable for mounting in any position on a standard outlet box.

f. Bypass Switch: Override the on function in case of sensor failure.

a. Sensitivity Adjustment: Separate for each sensing technology.

manner at an approximate speed of 12 inches/s (305 mm/s).

sq. ft. (93 sq. m) when mounted on a 96-inch- (2440-mm-) high ceiling.

boxes mounted flush in the wall shall be gasketed to the wall in a watertight manner.

Light Fixtures: The light fixtures shall be as described on the drawings or approved equal.

systems in accordance with applicable codes and the best practice of the trade.

be a requirement to furnish without additional expense, all material and labor necessary to complete the

conditions shall govern all dimensions.

as if it were both shown and specified.

for one year from date of acceptance.

manual-on/automatic-off operation.

shall be powered from the relay unit.

power source as defined by NFPA 70.

selected lighting level is present

three-wire, grounding type.

G. Plates shall be 302 stainless steel.

K. Wiring Materials:

H. Boxes shall be steel minimum 2-1/2" deep.

J. Disconnect Switches shall be heavy-duty type, horsepower rated.

a. Conduit fittings shall be steel compression type.

accordance with code requirements.

used where concealed in walls or ceilings and allowed by code.

ten feet on center. Minimum conduit size shall be 1/2".

1.7 WARRANTY

2.1 MATERIALS

A. Switches

1.8 RELATED WORK

PART 2 - PRODUCTS

A. Division 23 - Mechanical

C. Indoor Occupancy Sensors

d. Mounting:

building as the work progresses, and shall be subject to the Architect/Engineer's approval. Actual field

insulation color identified green, except where otherwise shown on the drawings or specified. 3. Wire shall not be less than shown on the drawings and not less than required by the NEC. Q. Fire Alarm System Components: 1. Modify and add to the existing fire alarm system to provide a complete and code compliant system including but not limited to: new smoke detectors, heat detectors and notification appliances in all areas

2. Insulated grounding wires shall be UL and NEC approved types, copper, with THWN or XHHW

required. The existing GE Fireworx addressable fire alarm control panel shall remain and be expanded as necessary. Components shall be listed for use with the existing fire alarm control panel. 3. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism

behind a grille. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet (3 m) from the 4. Strobe lights shall meet the requirements of the ADA, UL Standard 1971 and shall meet the following

a. Strobes shall be multi-candela rated and intensity shall be field selectable. b. The maximum pulse duration shall be 2/10 of one second. Clear Lexan lens in housing. c. Strobe intensity shall meet the requirements of UL 1971.

d. The flash rate shall meet the requirements of UL 1971. e. Strobes in the same area shall be synchronized. f. Outdoor units shall be weatherproof as well as any indicated on plans to be weatherproof that are inside the building.

b. Shall meet the visibility requirements specified for strobes. 6. Addressable Manual Pull Stations: a. Shall use a key operated test-reset lock, and shall be designed so that after actual emergency operation, they cannot be restored to normal use except by the use of a key. Units shall be supplied

a. Shall meet the audibility requirements specified herein for horns.

Audible/Visual Combination Devices:

7. Addressable Photoelectric Smoke Detector:

a. Shall be galvanized steel in accordance with UL.

A. General:

with plastic tamper covers that produce an audible alarm when lifted. b. All operated stations shall have a positive, visual indication of operation c. Manual stations shall be constructed of metal with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters.

8. Addressable Thermal Detectors: a. Rated at 135 degrees Fahrenheit (except as otherwise indicated) and have a rate-of-rise element rated at 15 degrees F (9.4 degrees C) per minute. It shall connect via two wires to the fire alarm control panel signaling line circuit. 9. Conduit and Wire:

a. The detectors shall use the photoelectric (light-scattering) principal to measure smoke density.

a. Wiring shall be in accordance with NEC Article 760, as shown on the drawings, and as recommended by the manufacturer of the fire alarm system. All wires shall be color-coded. Exposed wiring in unfinished areas shall be installed in metal conduit. Conduit fill shall not exceed 40 percent of interior cross sectional area. Number and size of conductors shall be as recommended by the fire alarm system manufacturer. Conduit shall be 1/2" minimum. Type MC fire alarm cable shall be permitted where concealed and acceptable to the Authority Having Jurisdiction. b. Wires in junction boxes and cabinets shall be permanently tagged and identified with tags. 13. Terminal Boxes, Junction Boxes and Cabinets:

b. Paint red and identify with white markings as "Fire". 14. Junction boxes shall have a volume 40 percent greater than required by the NEC. Minimum sized wire shall be considered as 14 AWG for calculation purposes PART 3 - EXECUTION 3.1 INSTALLATION

with the local electric utility company's rules, the Fire Underwriter's requirements, and all local, state and 2. In general, all wiring in finished areas shall be concealed in walls or above ceilings. Where wiring cannot be concealed due to existing construction, exposed wiring shall be installed in conduit or surface metal raceway as indicated on the drawings. Exposed wiring shall not be installed in finished areas without prior written authorization from the Engineer.

1. All work shall be in accordance with the National Electrical Code's requirements as amended to date,

3. Conduits shall be of sizes required by the National Electrical Code. Exposed conduits shall be installed with runs parallel or perpendicular to walls and ceiling, with right-angle turns consisting of bends, fittings, or outlet boxes. No wire shall be installed until work that might cause damage to wires or conduits has been completed. Conduits shall be thoroughly cleaned of water or other foreign matter before wire is 4. Where conduits, wireways and other electrical raceways pass through fire partitions, fire walls, or floor,

install a fire-stop that provides an effective barrier against the spread of fire, smoke and gases. Fire-stop material shall be packed tight and completely fill clearances between raceways and openings. Floor, exterior wall, and roof seals shall also be made watertight. Where raceways puncture roof, coordinate with Division 07. 6. Surface metal raceways shall be sized as required by the National Electrical code and as recommended by the manufacturer. Surface metal raceways shall be installed with runs parallel or perpendicular to

designed for the particular application. Installation shall be as visually unobtrusive as possible: v. Surface metal raceways shall be painted to match wall finishes. 7. All splices shall be mechanically and electrically perfect, using crimp type wire connectors. 8. Provide all disconnect switches required by the N.E.C.

walls and ceiling. Changes in direction shall only be made at device box locations or with fittings 4 PROVIDE PROGRAMMED START BALLAST WITH ROOMS THAT HAVE OCCUPANCY SENSORS. 9. Locate motor starters as shown on drawings.

PANEL SCHEDULE ~ P-17 MLO: 125A AIC: 10k CIRCUIT LOAD (KVA) CONNECTED **BRANCH CIRCUIT DESCRIPTION** CKT NO | BRKR SIZE LIGHTING: 100, 101, 102, CANOPY 0.91 20 Α RECEPTACLES: 100, 101, 102, 1.26 OUTSIDE С 5 1.50 VESTIBULE 100 HEATER 1.50 9 0.04 20 В ERV, RECORDS 103 ROOF 11 0.00 SPARE 13 SPARE 0.00 Α 15 SPARE 0.00 17 SPARE 0.00 19 SPARE 0.00 20 Α 21 SPARE 20 В 0.00 23 0.00 SPARE 25 SPARE 0.00 Α 27 0.00 SPARE 29 20 0.00 SPARE SUBTOTAL 1.30 1.50 3.00 OUTDOOR HEAT PUMP CONDENSER 3.00 0.00 SPARE 6 С 0.00 SPARE 10 SPARE 0.00 12 SPARE 20 0.00 14 SPARE 0.00 Α 16 SPARE 0.00 18 C 0.00 SPARE 20 Α 0.00 SPARE SPARE 22 0.00 24 0.00 SPARE

0.00

3.00

TYPE

LED ARRAY

LED ARRAY

LED ARRAY

3500K

LED ARRAY

LED ARRAY

Α

SUBTOTAL

LUMENS

1400

1400

500

4.8W/ft | 390 lum/ft

WATTS

17

17

8.5

0.00

3.00

KEY

SPARE

SPARE

0.00 SPARE

0.00

LAVALLEE BRENSINGER ARCHITECTS

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NH: 603.622.5450 MA: 781.462.7283 www.LBPA.com

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CITY OF PORTSMOUTH

FACADE PORTSMOUTH CITY HALL

1 Junkins Avenue Portsmouth, NH 03801

NO.	DESCRIPTION	DATE

ELECTRICAL SPECIFICATIONS & SCHEDULES DRAWN BY: PROJECT NO: DATE: REVISED: SCALE:

02/17/2017

As Indicated

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10. Mount disconnect switches and starters at a height of 60" above finished floor unless otherwise noted.

DESCRIPTION

ADDITIONAL REQUIREMENTS IN SPECIFICATIONS AND DRAWINGS.

R1 2x2 LENSED GRID TROFFER

R2 4" RECESSED DOWNLIGHT

L1 LED COVE LIGHT

EXIT LED EXIT SIGN

NOTES

R1A 2x2 LENSED GRID TROFFER, DIMMABLE

3) Open fire alarm detector circuits to see if trouble signal actuates.

demonstration shall be made in the presence of the Architect/Engineer.

1. Provide tags on each end of all pulled wires giving location of other end.

Cost for overtime work shall be included in the bid.

presence of the Engineer or his representatives.

manner satisfactory to the Architect/Engineer.

F. Identification:

H. Testing and Adjusting:

END OF SECTION 261000

5) Perform any other tests recommended by the equipment manufacturer.

located at motors), and duct smoke detector remote test/alarm-indicating stations.

installation. These shall be given to the Engineer at the completion of the work.

G. Record Drawings: The Contractor shall keep on the job a set of prints showing any changes to the

10. Final Inspection: At the final inspection a factory-trained representative of the manufacturer of the

existing equipment shall demonstrate that the systems function properly in every respect. The

this condition. Authorization for interrupting service shall be obtained in writing from the Owner. Any

E. Continuity of Services: Arrange to execute work at such times and in such locations to provide uninterrupted

service to the building or any of its sections. If necessary, temporary power shall be installed to provide for

interruption of normal supply shall be performed during an overtime period to be scheduled with the Owner.

2. Provide phenolic nameplates for all panelboards, motor starters, disconnect switches (except switches

3. Label each receptacle faceplate using machine-printed thermal adhesive labels to indicate source panel

1. The entire installation shall be free from short-circuits and improper grounds. Tests shall be made in the

ground, the lighting equipment shall be connected for proper operation. In no case shall the insulation

resistance be less than that required by the National Electrical Code. Failures shall be corrected in a

METALUX

METALUX

LITHONIA

io LIGHTING

DUAL-LITE

VERIFY CEILING STRUCTURE AND MOUNTING HEIGHT PRIOR TO ORDERING ANY LIGHT FIXTURES.

FIXTURES SHALL SATISFY LENGTHS AND ARRANGEMENT LAYOUTS SHOWN ON DRAWINGS.

PROVIDE WALL, CEILING, OR PENDANT MOUNTING AS INDICATED ON PLANS. PROVIDE NUMBER OF FACES AND ARROWS AS INDICATED.

26

28

30

RECESSED

RECESSED

RECESSED

SEE PLAN

LUMINAIRE SCHEDULE

CATALOG SERIES NUMBERS ARE USED TO ESTABLISH A LEVEL OF QUALITY AND NOT INTENDED TO LIMIT COMPETITION. SERIES NUMBERS ARE NOT COMPLETE CATALOG NUMBERS. COMPLY WITH

PROVIDE "SUPER T8" LAMPS AND MATCHING BALLASTS; BASIS OF DESIGN BASED ON SYLVANIA PROSTART PSX PROGRAMMED RAPID START BALLAST (.71 BALLAST FACTOR) AND MATCHING OCTRON

CATALOG SERIES NUMBER

NOTE 1

2GR8-4-17-A-UNV

2GR8-4-17-A-UNV-5LTV81

LDN4-35-05-L04-AR-LD-MVOLT-EZ10

08-35K-C33-1-*-ND

LX-U-R-W

NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG NUMBERS. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COMBINED

20

VOLTS QTY PER

120

120

120

120

FIXTURE

2. Each individual lighting circuit shall be tested at the panel; and in testing for insulation resistance to

3. Each system shall be completely tested and shall be adjusted for proper operation as required by the

and branch circuit. For receptacles connected to normal power, labels shall be white with black letters.

4) Check installation, supervision, operation and sensitivity of smoke detectors as recommended by

the manufacturer to ascertain that they will avoid false alarm signals and will function as specified.

