

No.	DESCRIPTION	DATE
4	Construction Documents for ReBid	1/14/19
ISSUED DRAWINGS		

NOTES:

CONTRACTOR TO SUBMIT CERTIFICATIONS FOR ALL WORKERS ON SITE FOR COMPLETED 2-DAY ONSITE TRAINING WITH CATHEDRAL STONE PRODUCTS

AT 6 WOOD COLUMN BASES:

1. SHORE ENTABLATURE AND PORTICO ROOF AS REQUIRED TO ALLOW FOR RESTORATION WORK.
2. AT SQUARE BASE PLINTHS, REMOVE EXISTING GROUT AND REPLACE WITH NEW WOOD BASE.
3. EXISTING COVE AND BULL NOSE BASE TRIM TO BE REMOVED AND REPLACED WITH NEW.
4. ALL NEW WOOD TO BE REPAINTED.
5. SEE S3.1 AND SPECIFICATIONS FOR MORE INFORMATION.

KATHARINE HEPBURN CULTURAL ARTS CENTER

300 MAIN STREET
 OLD SAYBROOK, CT

BID SET

PORTICO CONCRETE
 CONDITION & REPAIRS
 AND GENERAL NOTES

SCALE:	As indicated
PROJECT NUMBER:	17207
DATE:	09/01/2018
DRAWN BY:	JJS
CHECKED BY:	AJ / JFN

S1.1

- GENERAL PROJECT NOTES**
1. 2018 STATE OF CONNECTICUT STATE BUILDING CODE AND SUPPLEMENT.
 2. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND BRACING TO MAINTAIN THE STABILITY, SAFETY, AND LATERAL LOAD RESISTANCE OF THE BUILDING AND ITS INDIVIDUAL COMPONENTS THROUGHOUT CONSTRUCTION.
 3. FOR RENOVATIONS AND ADDITIONS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
 4. DO NOT SCALE DRAWINGS TO OBTAIN INFORMATION.
 5. WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS

STAIR REPAIR SCHEDULE

LOCATION	NORTH SIDE	SOUTH SIDE
RISER 2	100% x 2" DEEP	20% x 2" DEEP
RISER 3	20% x 2" DEEP	20% x 2" DEEP
RISER 4	50% x 2" DEEP	25% x 2" DEEP
RISER 5	10% x 2" DEEP	10% x 2" DEEP
TREAD 5	-	10% x 2" DEEP
RISER 7	80% x 2" DEEP	30% x 2" DEEP
RISER 8	10% x 2" DEEP	25% x 2" DEEP
RISER 9	10% x 2" DEEP	-
RISER 10	-	10% x 2" DEEP
RISER 11	-	20% x 2" DEEP
TREAD 11	-	10% x 2" DEEP
RISER 12 / UPPER SLAB	100% x 2" DEEP	100% x 2" DEEP

- NOTES:**
1. SEE TYPICAL CONCRETE REPAIR DETAILS AND PROJECT SPECIFICATIONS FOR MORE INFORMATION
 2. PERCENT IS APPROXIMATE AMOUNT OF SURFACE AREA REQUIRING REPAIR

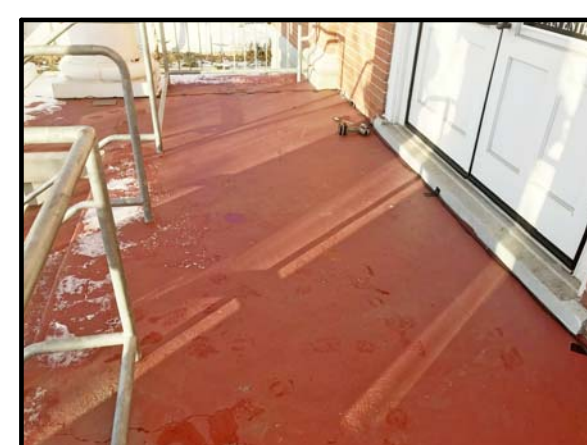
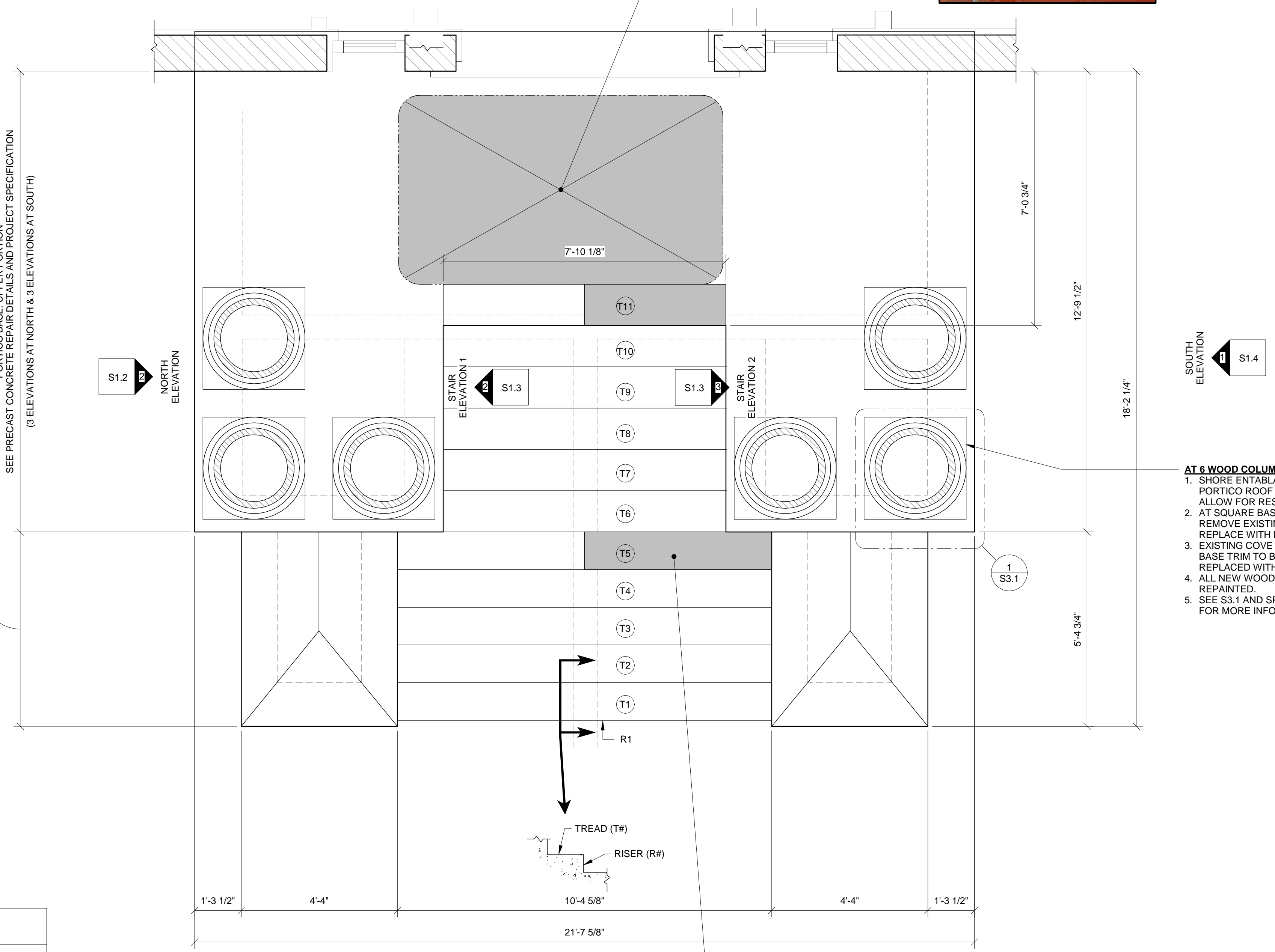
SCHEDULE OF CEMENTITIOUS REPAIRS

SYMBOL	DESCRIPTION	APPROXIMATE TOTAL QUANTITY
1	PRECAST CONCRETE AT UPPER PORTION OF PORTICO BASE: REFER TO S2.1 TYPICAL CONCRETE DETAILS AND PROJECT SPECIFICATIONS. 100% OF SURFACE TO BE REMOVED AT DELAMINATED UNITS.	7.5 CUBIC FEET
2	CEMENT STUCCO REPAIR AT LOWER PORTION OF PORTICO BASE: REMOVE ALL EXISTING STUCCO/PLASTER LAYERS, INCLUDING WIRE MESH, REPOINT, AND INSTALL NEW STUCCO PER PROJECT SPECIFICATIONS. NEW STUCCO TO REPLICATE ORIGINAL RUSTICATION PATTERN.	REMOVAL: 10 CUBIC FEET REPOINTING: 80 SQUARE FEET NEW STUCCO: 13.5 CUBIC FEET
3	CAST-IN-PLACE CONCRETE SLAB EDGE REPAIR: REFER TO S2.1 TYPICAL CONCRETE DETAILS AND PROJECT SPECIFICATIONS.	3.5 CUBIC FEET
4	CAST-IN-PLACE CONCRETE SLAB & STAIRS: REFER TO S2.1 TYPICAL CONCRETE DETAILS AND PROJECT SPECIFICATIONS. EXISTING PAINT TO BE REMOVED VIA SAND-BLASTING PRIOR TO SOUNDING	17 CUBIC FEET

- NOTES:**
1. SEE TYPICAL CONCRETE REPAIR DETAILS AND PROJECT SPECIFICATIONS FOR MORE INFORMATION
 2. SEE S3.1 FOR WOOD REPAIRS

SEE CEMENT STUCCO REPAIR DETAILS AND PROJECT SPECIFICATIONS (3 ELEVATIONS AT NORTH & 3 ELEVATIONS AT SOUTH)

SEE PRECAST CONCRETE REPAIR DETAILS AND PROJECT SPECIFICATION (3 ELEVATIONS AT NORTH & 3 ELEVATIONS AT SOUTH)

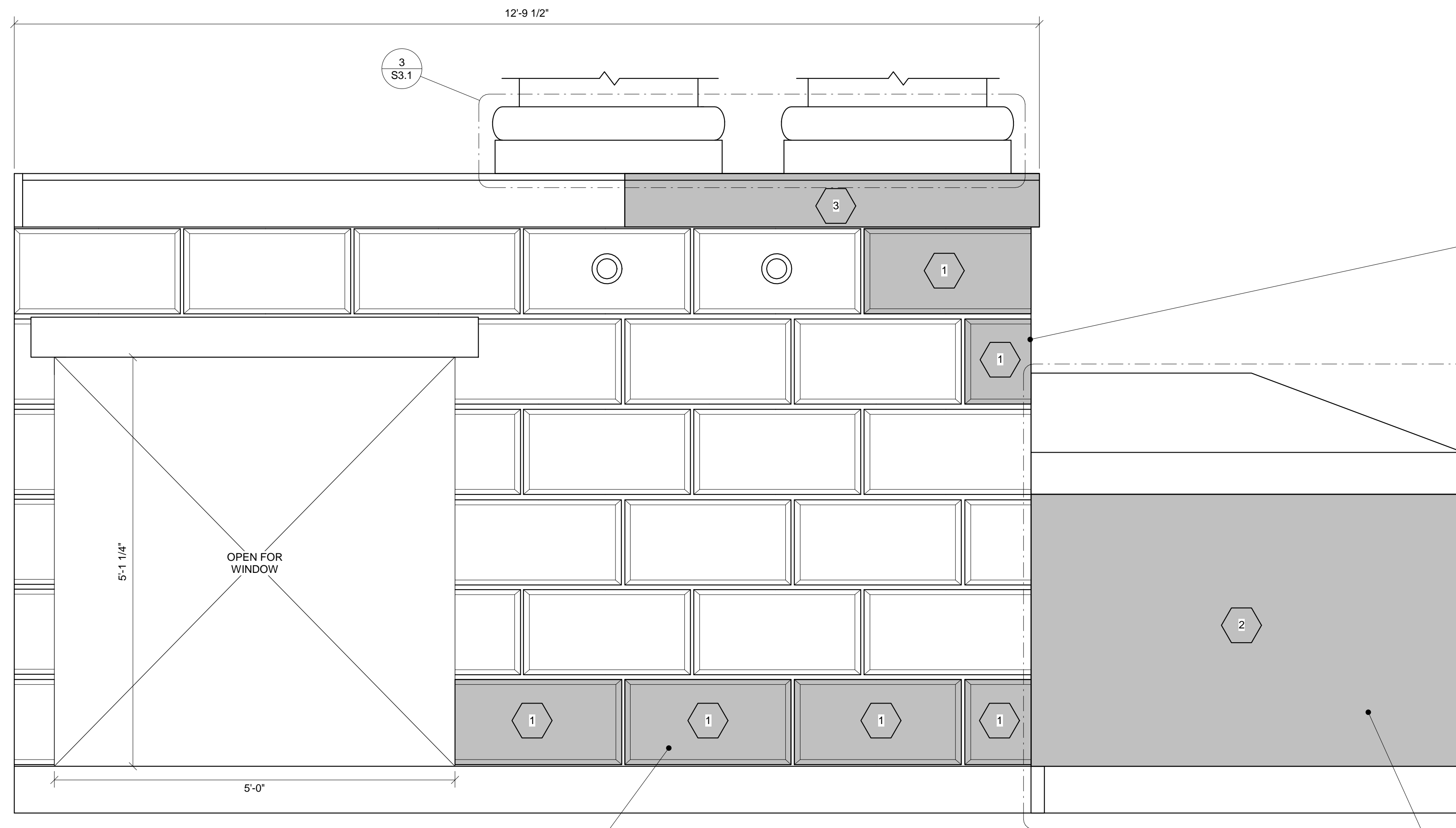


1 PORTICO PLAN
 1/2" = 1'-0"



SCHEDULE OF CEMENTITIOUS REPAIRS		
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NOTES:
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EXAMPLE OF REMOVAL OF DELAMINATED SURFACE OF PRECAST CONCRETE UNIT



REMOVAL TEST PATCH OF DELAMINATED SURFACE/MORTAR JOINT OF PRECAST CONCRETE UNIT



REMOVAL TEST PATCH OF DELAMINATED STUCCO. ALL EXISTING STUCCO TO BE REMOVED, BRICK TO BE REPOINTED, AND NEW STUCCO TO BE INSTALLED AND TOOLED TO MATCH RUSTICATION PATTERN.



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No.	DESCRIPTION	DATE
4	Construction Documents for ReBid	1/14/19

ISSUED DRAWINGS

NOTES:
CONTRACTOR TO SUBMIT CERTIFICATIONS FOR ALL WORKERS ON SITE FOR COMPLETED 2-DAY ONSITE TRAINING WITH CATHEDRAL STONE PRODUCTS

KATHARINE HEPBURN CULTURAL ARTS CENTER
 300 MAIN STREET
 OLD SAYBROOK, CT

BID SET
ELEVATIONS

SCALE: 1" = 1'-0"
 PROJECT NUMBER: 17207
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S1.2

2 NORTH ELEVATION
 1" = 1'-0"

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KATHARINE HEPBURN CULTURAL ARTS CENTER

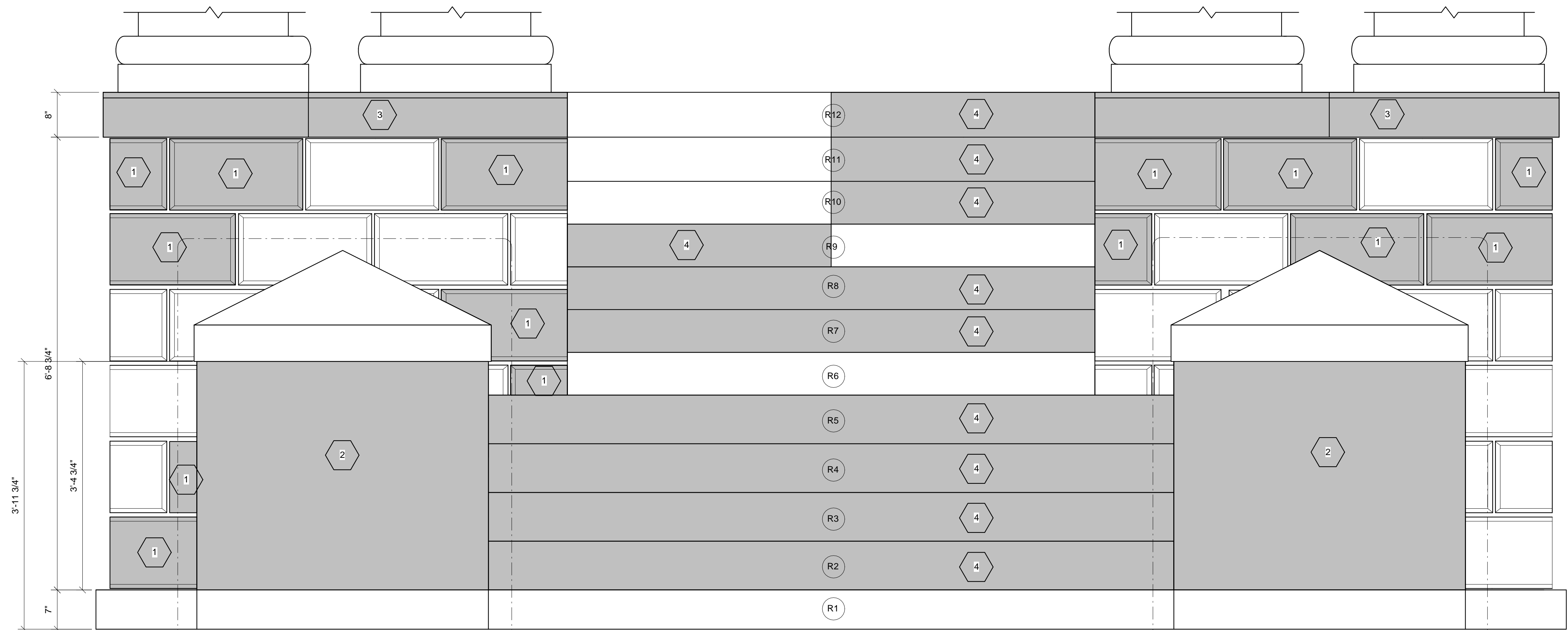
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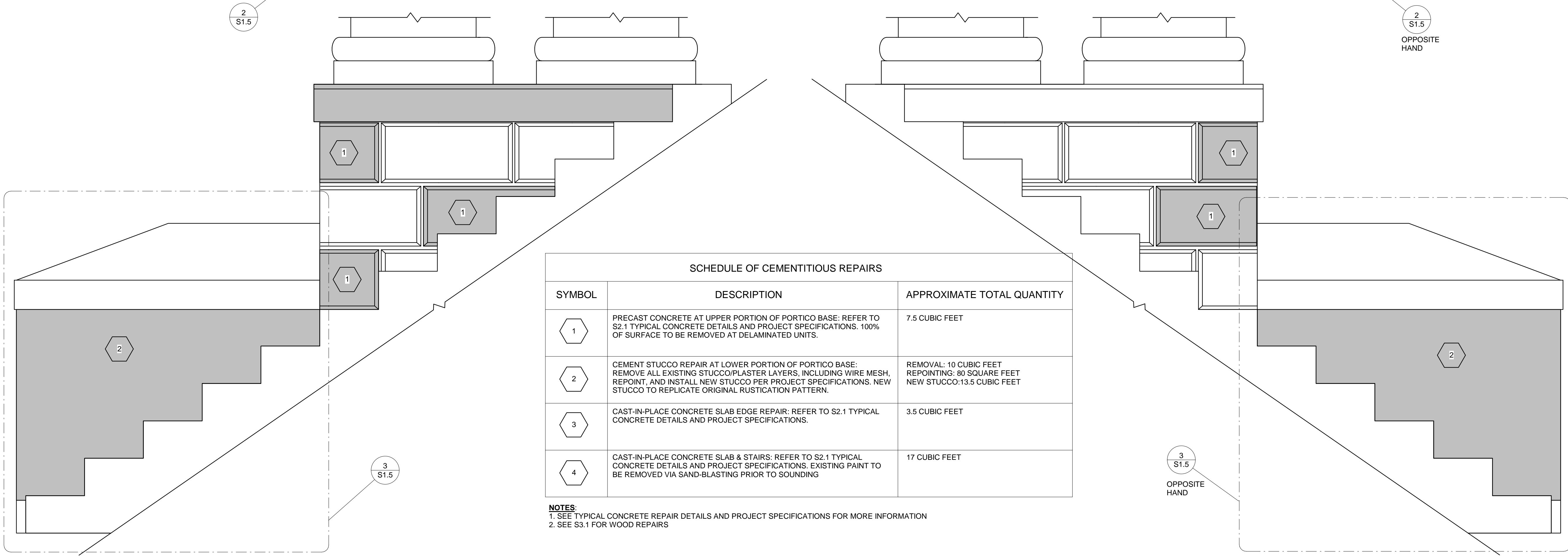
ELEVATIONS

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S1.3



1 FRONT ELEV
1" = 1'-0"



2 STAIR ELEVATION 1
1" = 1'-0"

3 STAIR ELEVATION 2
1" = 1'-0"

SCHEDULE OF CEMENTITIOUS REPAIRS		
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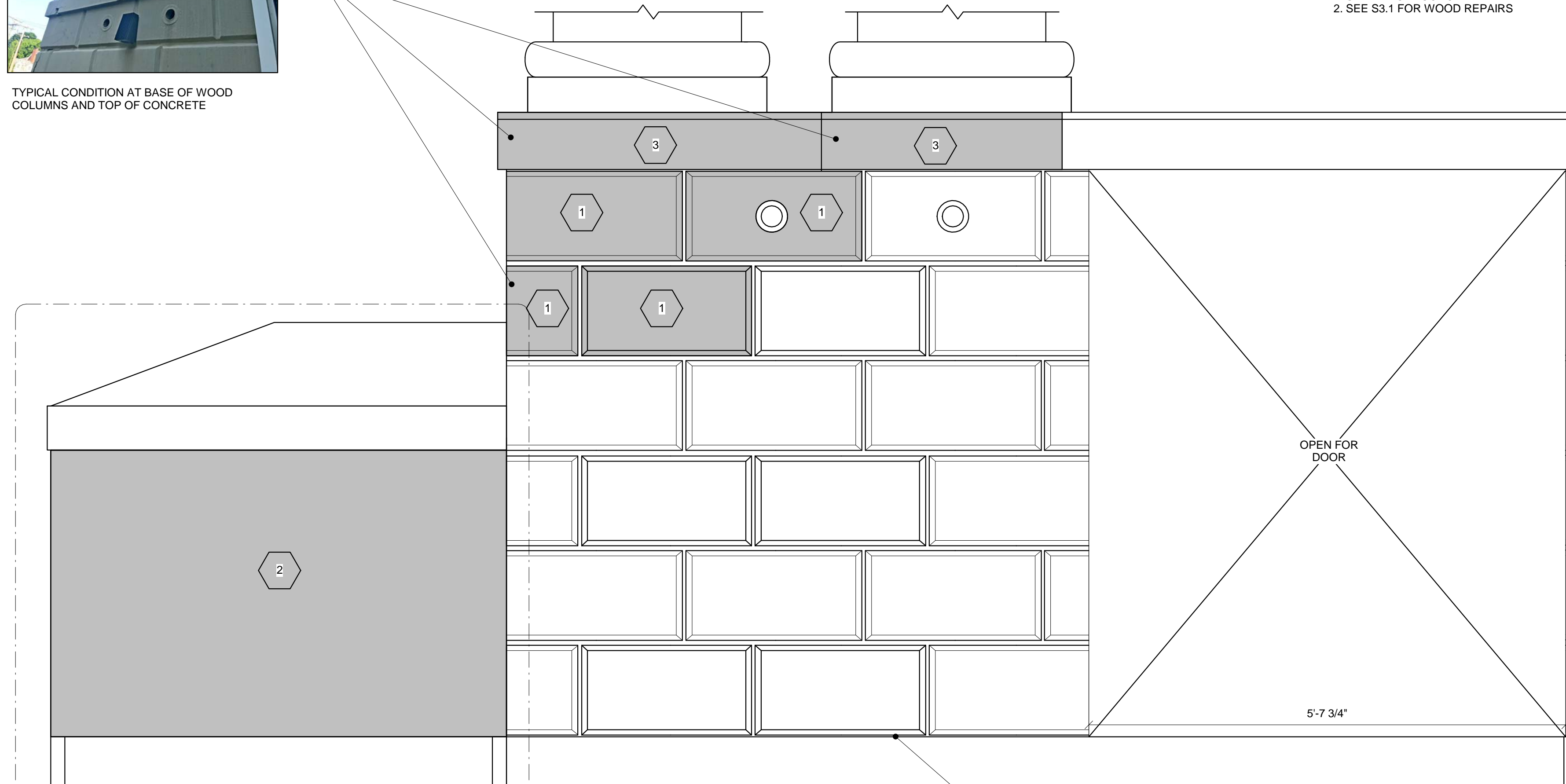
NOTES:
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NOTES:
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TYPICAL CONDITION AT BASE OF WOOD COLUMNS AND TOP OF CONCRETE



TYPICAL CONDITION AT BASE OF PRECAST CONCRETE UNITS

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 300 MAIN STREET
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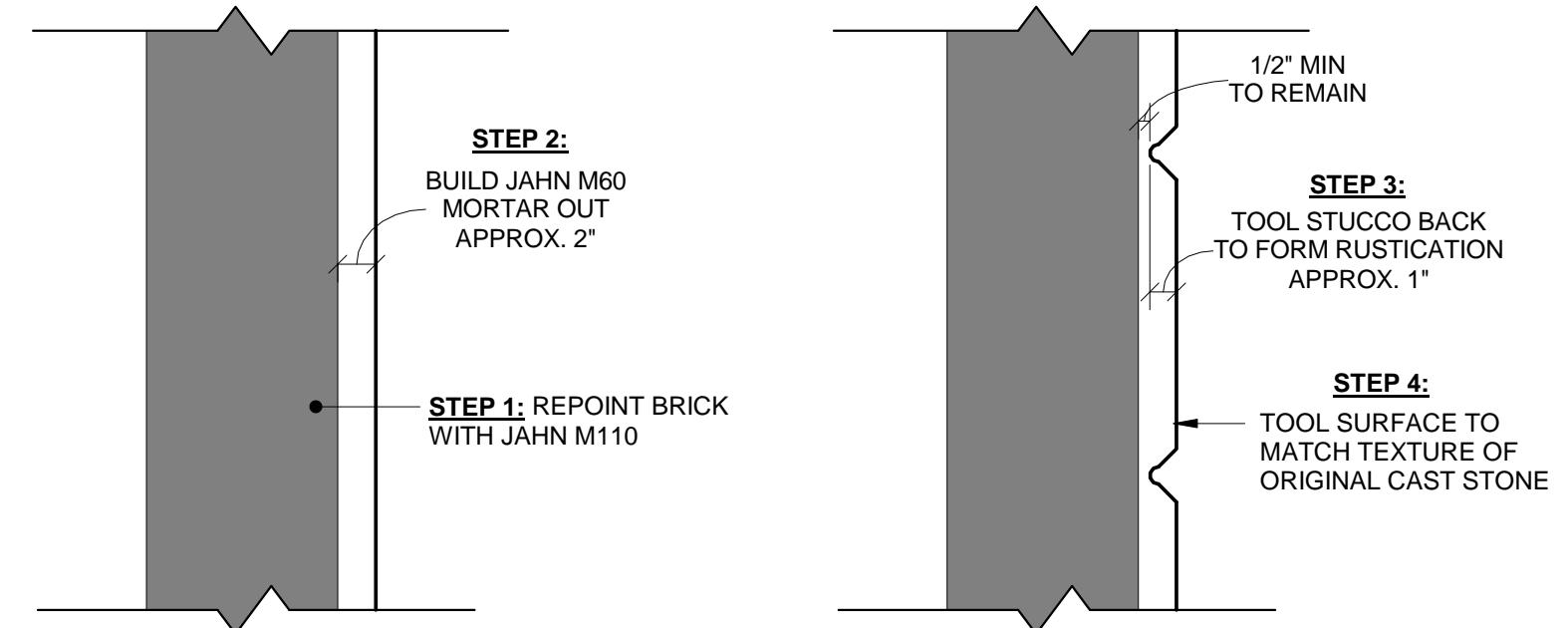
CONTRACTOR TO SUBMIT CERTIFICATIONS FOR ALL WORKERS ON SITE FOR COMPLETED 2-DAY ONSITE TRAINING WITH CATHEDRAL STONE PRODUCTS



ALL (E) LAYERS OF STUCCO/PLASTER TO BE REMOVED (APPROXIMATELY 1 3/4" TOTAL)

REPOINT BRICK WITH JAHN M110

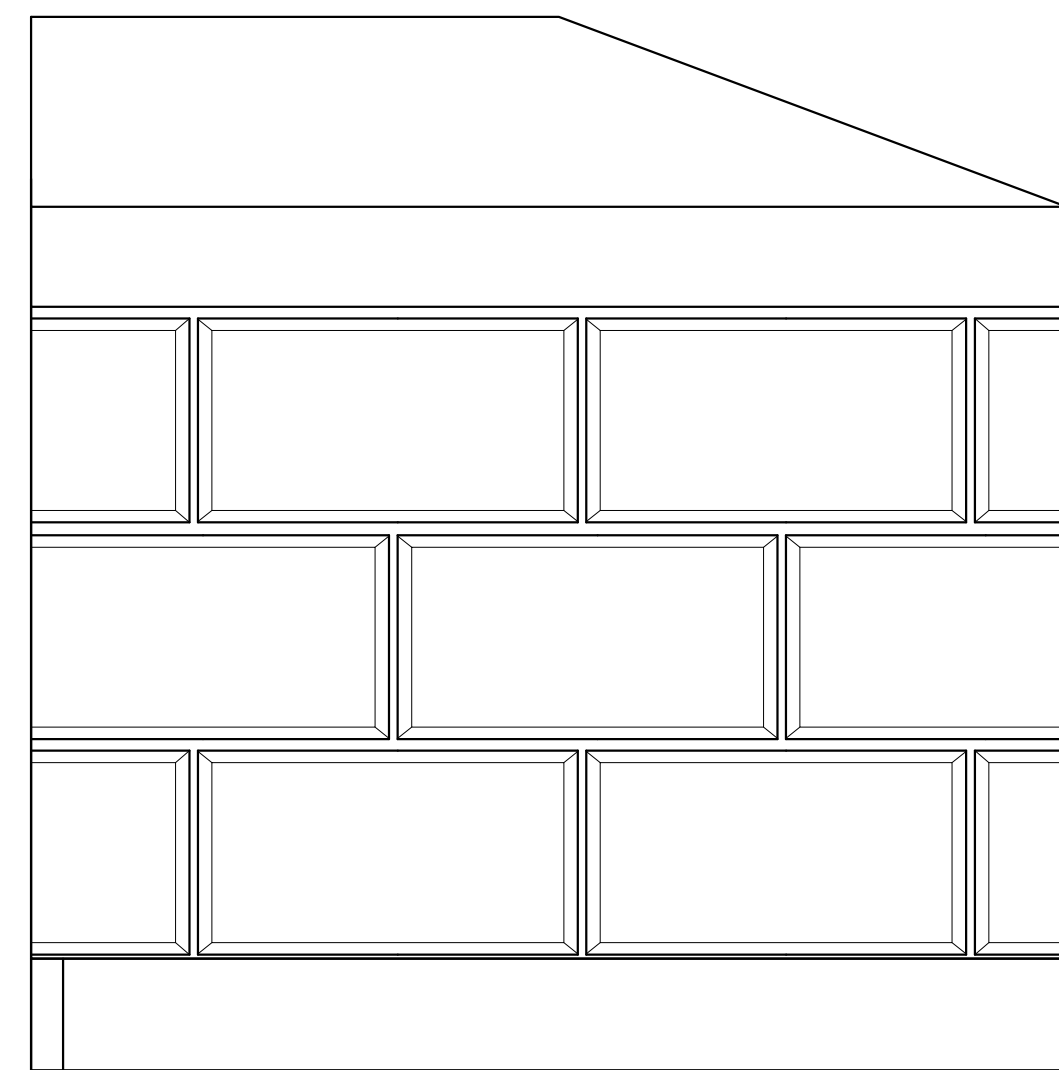
FACE OF BRICK MAY COME OFF WITH PLASTER/STUCCO REMOVAL. REMOVE ALL LOOSE BRICK PIECES PRIOR TO CLEANING/WASHING/PREP



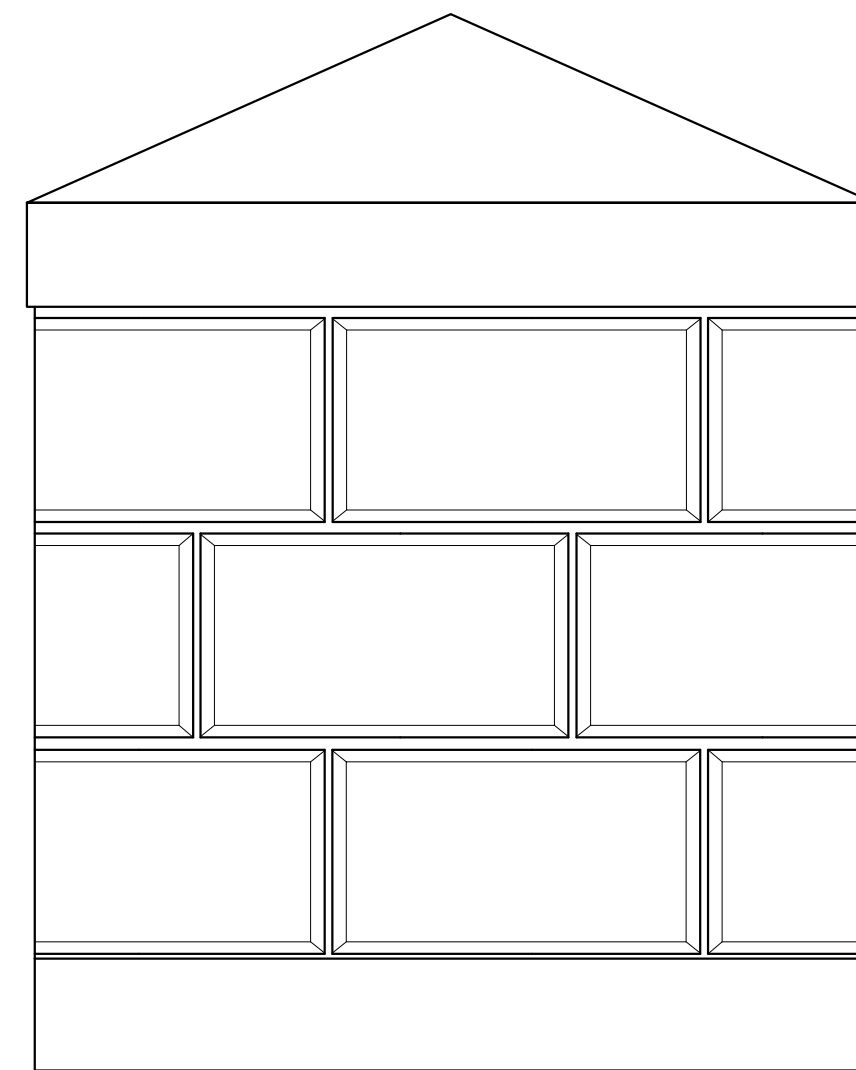
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EXISTING STUCCO/PLASTER REMOVAL

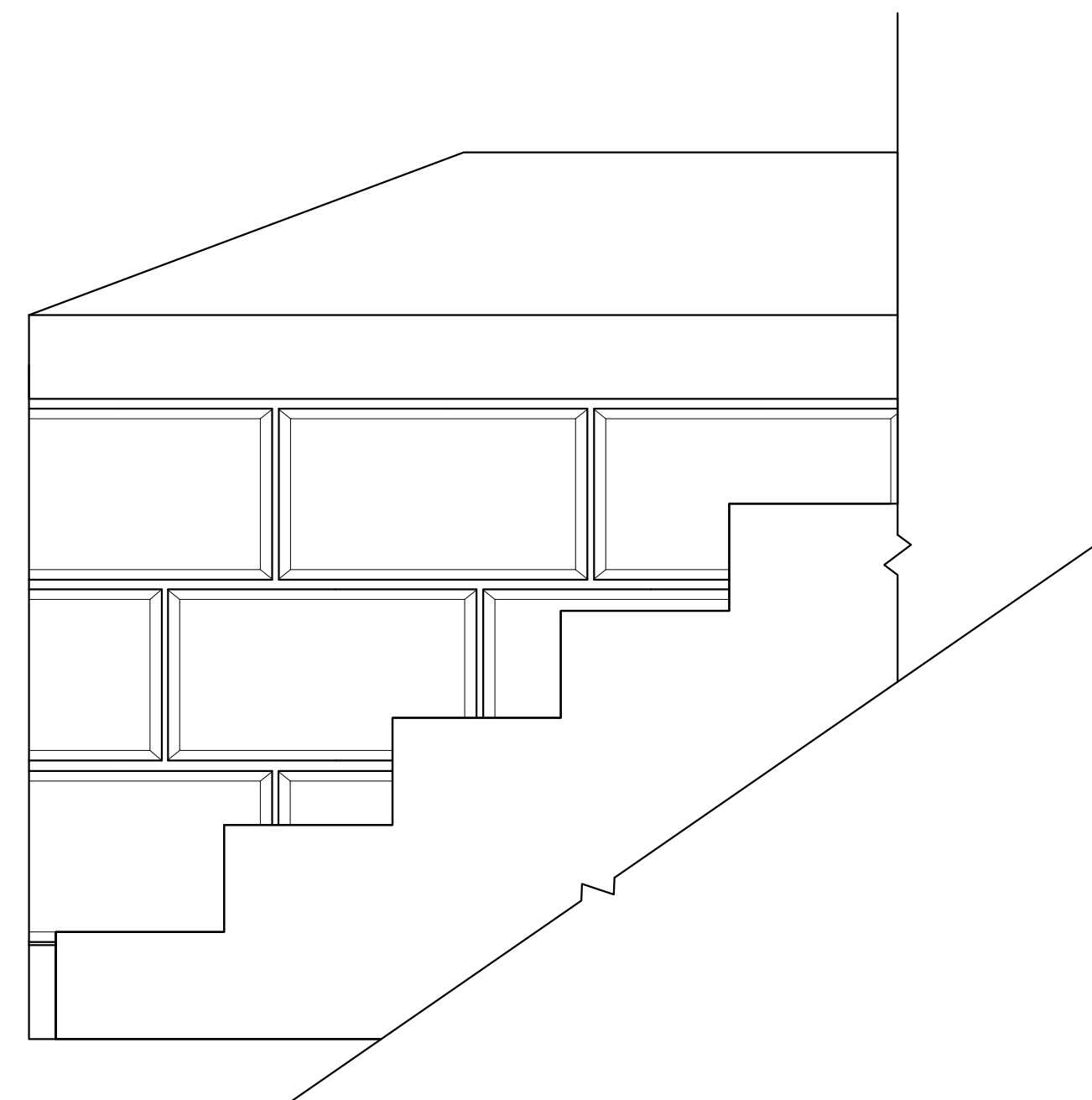
TYPICAL STUCCO RESTORATION DETAIL



① RESTORED NORTH LOWER ELEVATION
1" = 1'-0"



② RESTORED LOWER FRONT ELEV
1" = 1'-0"



③ RESTORED LOWER STAIR ELEVATION
1" = 1'-0"

RESTORED ELEVATIONS SHOW APPROXIMATE LAYOUT OF RESTORED STUCCO BASED ON EXISTING UNIT SIZES. CONTRACTOR TO SUBMIT FINAL LAYOUT FOR APPROVAL BY OWNER AND ENGINEER.

KATHARINE HEPBURN
CULTURAL ARTS
CENTER

300 MAIN STREET
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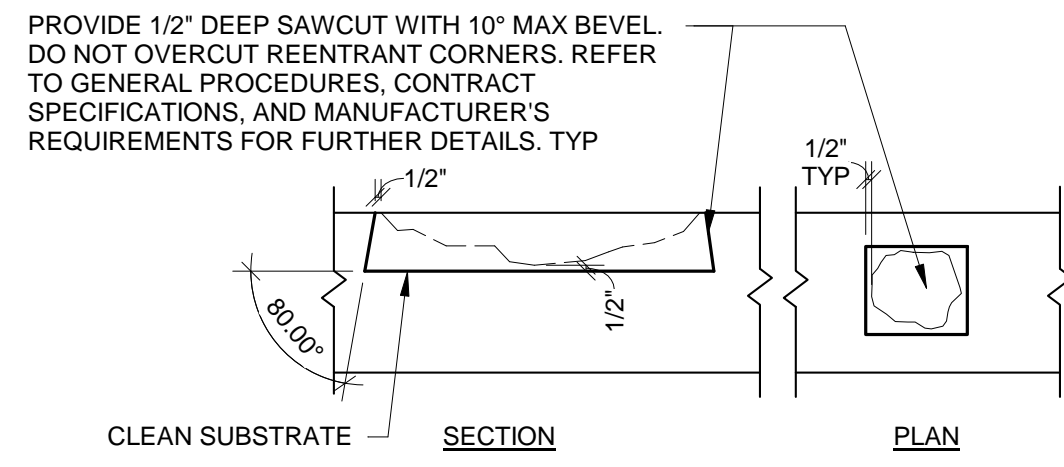
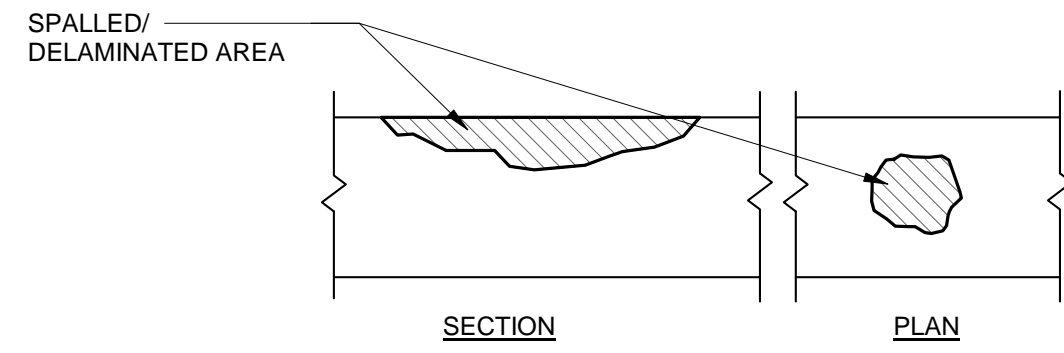
BID SET

RESTORED ELEVATIONS

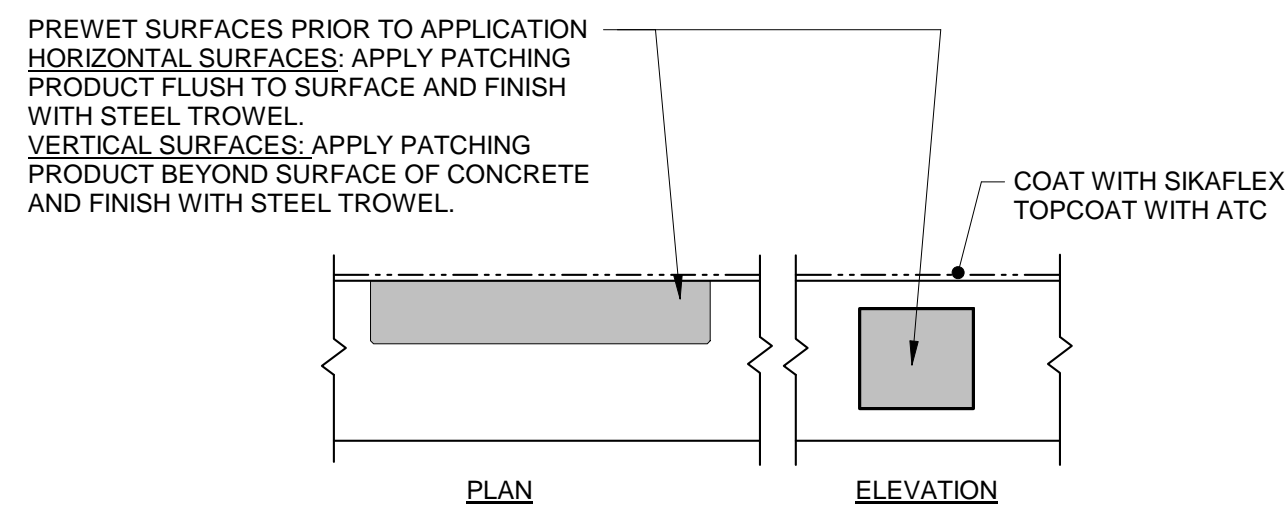
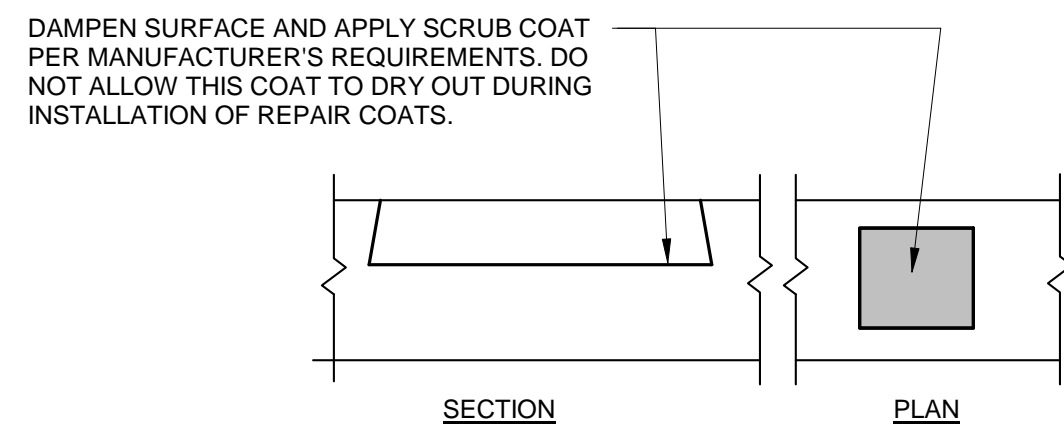
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S1.5

STEP 1: REMOVAL OF DETERIORATED CONCRETE



STEP 2: INSTALLATION OF REPAIR PRODUCT



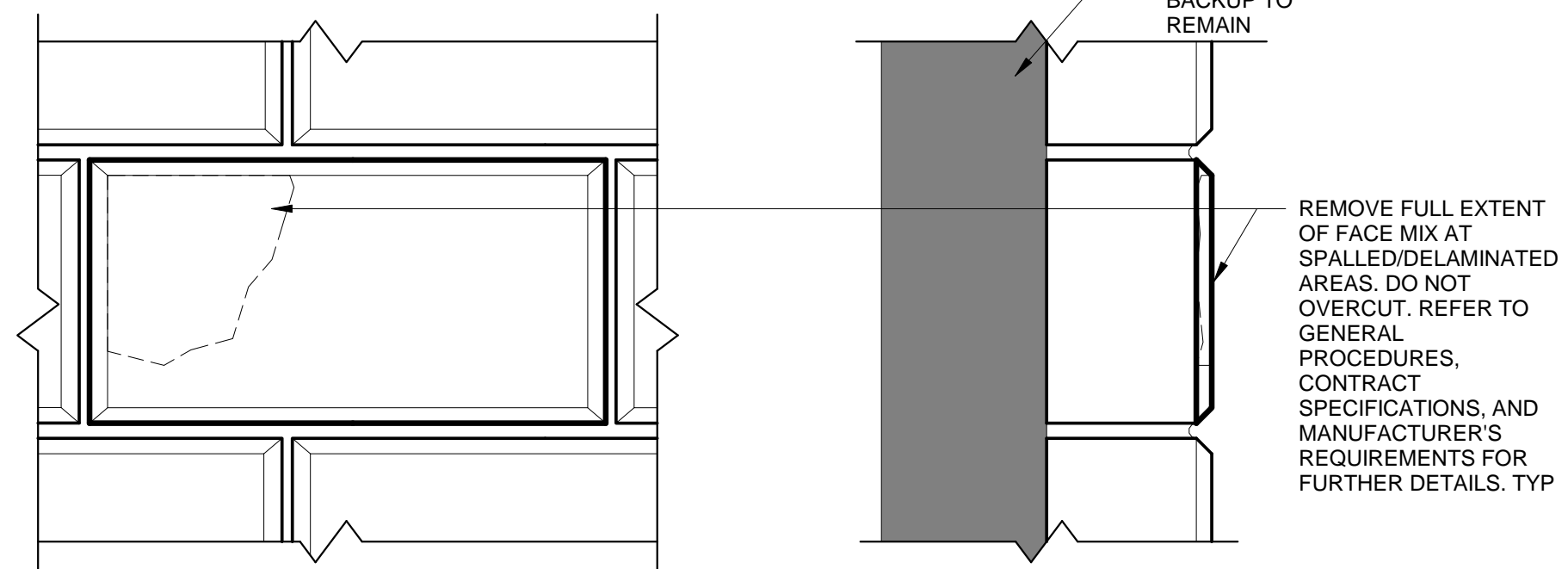
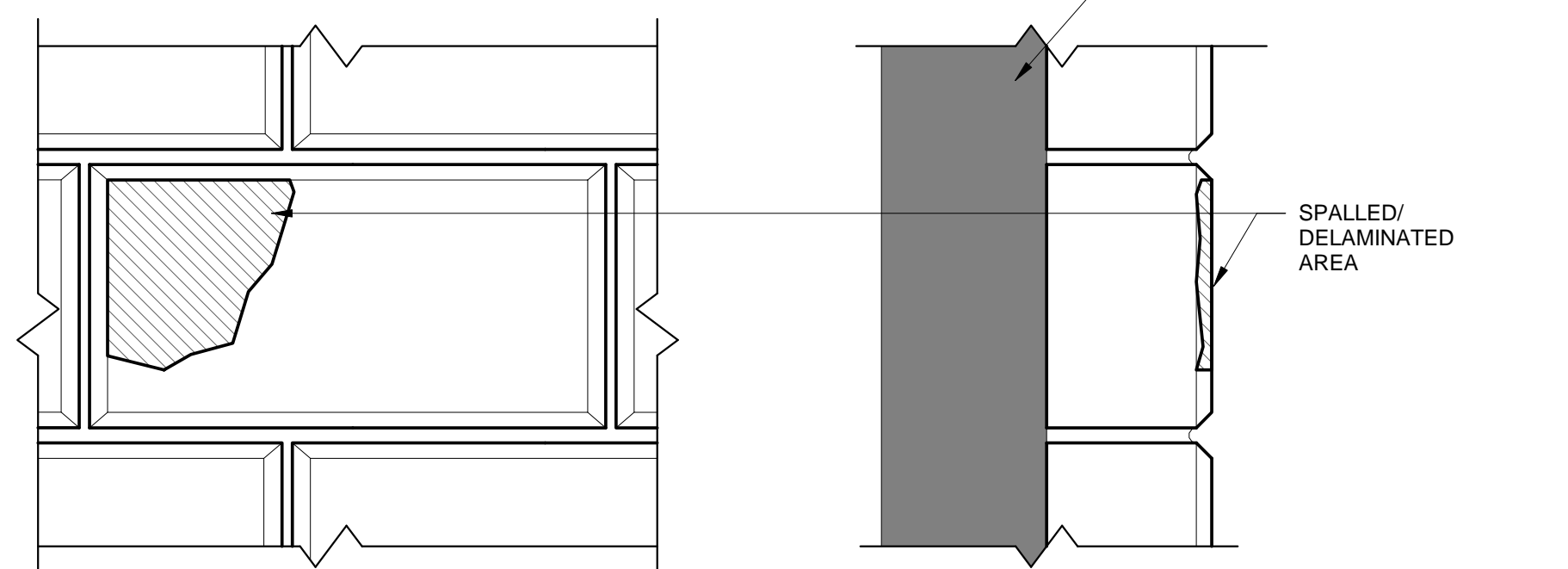
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TYPICAL CAST IN PLACE CONCRETE REPAIR AT STAIRS AND LANDING WITH SIKA

CAST IN PLACE CONCRETE REPAIR - SIKA SYSTEM

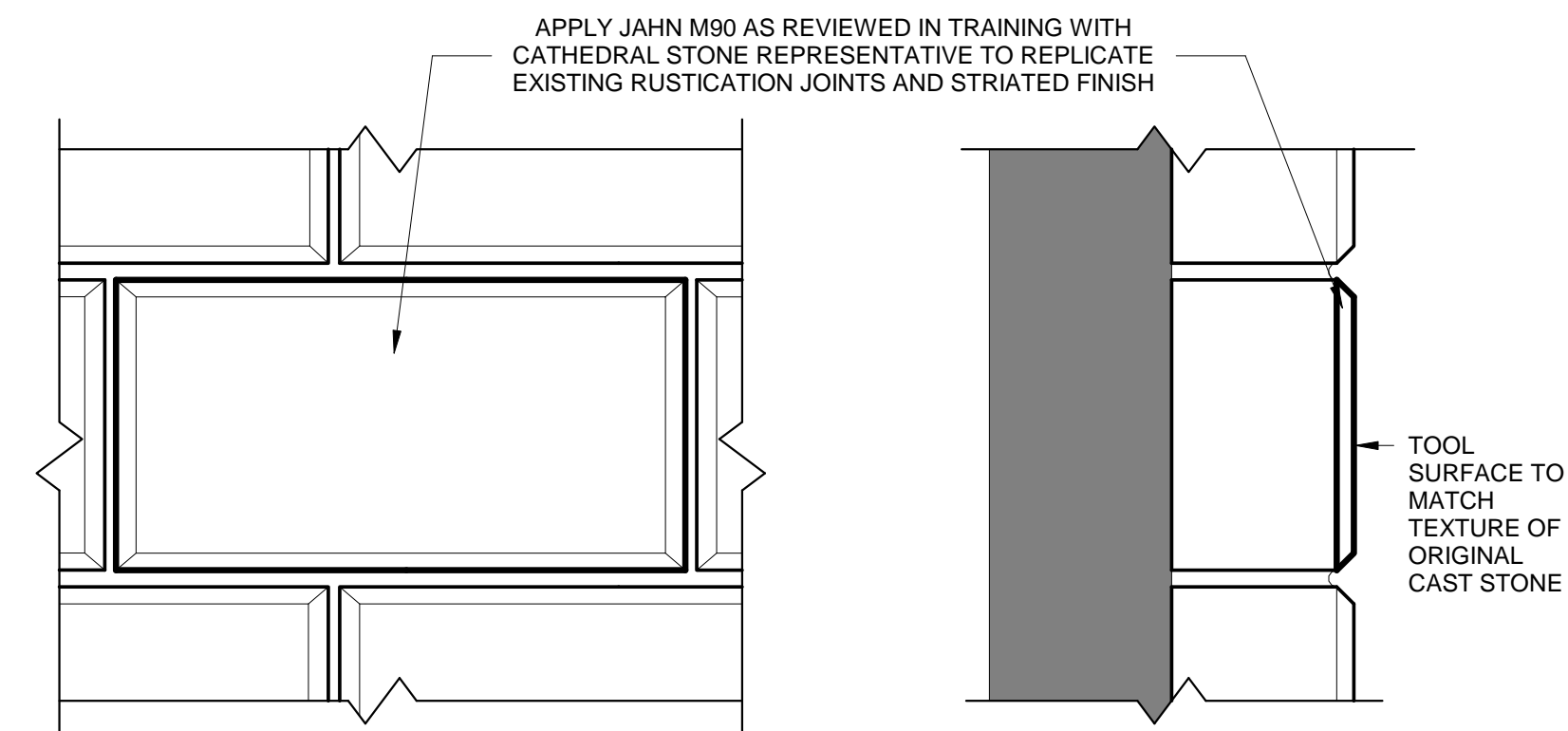
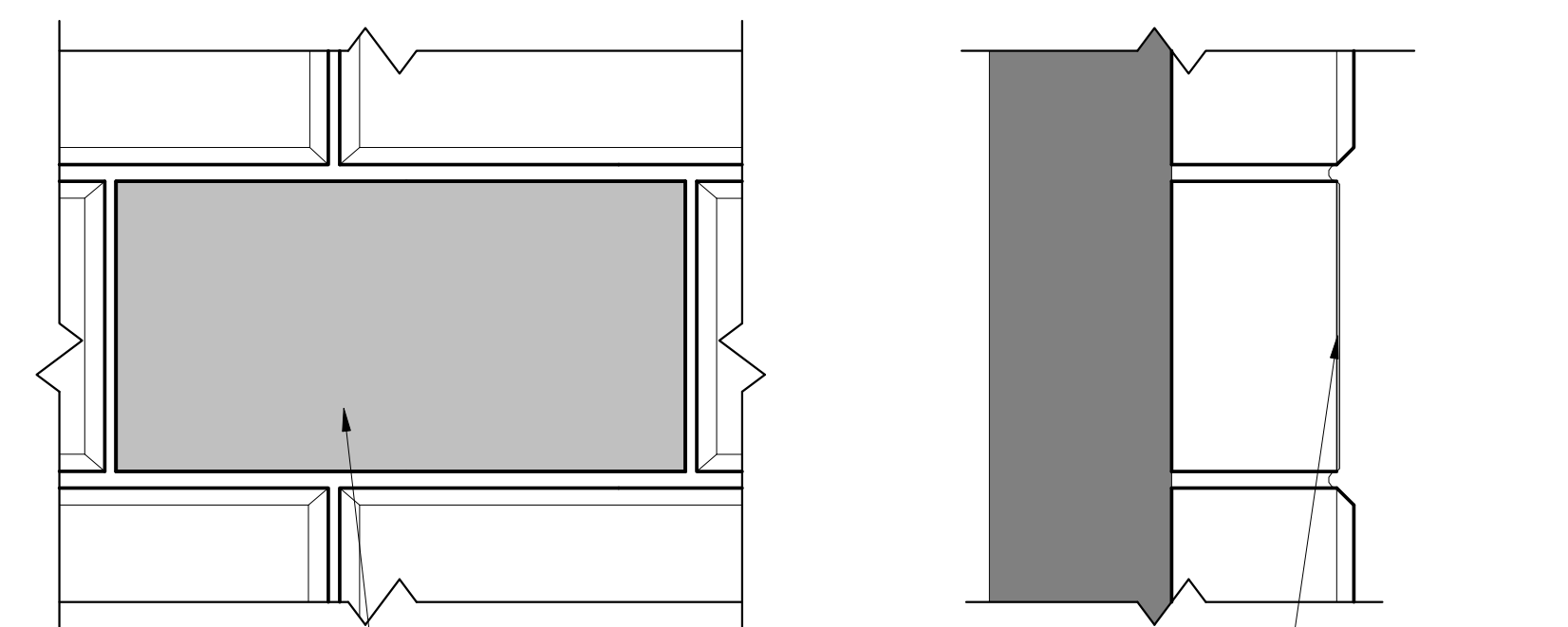
- CLEANING & SOUNDING**
 - CLEAN ALL CAST IN PLACE CONCRETE SURFACES BY SAND-BLASTING TO REMOVE EXISTING PAINT AND LOOSE CONCRETEWORK SHALL COMPLETE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, CODES AND REGULATIONS.
 - SOUND SURFACES FOR DELAMINATION AND SUBMIT DOCUMENTATION OF AREAS TO BE REMOVED AND REPAIRED.
- SURFACE PREPARATION**
 - FOLLOWING REMOVAL OF DETERIORATED CONCRETE, CLEAN CONCRETE OF ALL DUST, DIRT, GREASE, LAITANCE AND/ OR ANY SUBSTANCE WHICH MAY HINDER ADHESION.
- REBAR**
 - IF REBAR IS ENCOUNTERED, REMOVE CONCRETE AROUND REBAR OR AT EDGES OF CURRENTLY SPALLED LOCATIONS AND CONCRETE AT LEAST 2 INCHES BEYOND AREA OF DETERIORATED OR MISSING MATERIALS TO PROVIDE SOUND SURFACE FOR PATCHING MATERIAL
 - REMOVE ALL RUST AND SCALE FROM REBAR. DO NOT CUT EXISTING REBAR.
 - COAT REBAR WITH CEMENTITIOUS EPOXY RESIN COMPENSATED 3-COMPONENT, SOLVENT-FREE, COATING MATERIAL WITH CORROSION INHIBITOR SUCH AS SIKATOP ARMATEC 110 EPOCEM PER MANUFACTURER'S REQUIREMENTS.
- PATCHING**
 - PATCH HORIZONTAL SURFACES WITH ONE-COMPONENT, CEMENTITIOUS, PUMPABLE AND POURABLE CONCRETE MIX SUCH AS SIKACRETE 211
 - PATCH VERTICAL SURFACES WITH ONE-COMPONENT, EARLY STRENGTH-GAINING, CEMENTITIOUS, PATCHING MATERIAL FOR VERTICAL SURFACES SUCH AS SIKAREPAIR 223
- TOP COAT**
 - APPLY 2 COATS OF WATER-BASED, ACRYLIC TOP COAT SUCH AS SIKAGUARD FLEXCOAT WITH ACRYLIC TOP COAT (ATC).
 - TOP COAT TO BE APPLIED TO ENTIRE SURFACE OF LANDING AND STAIRS. PROVIDE PROTECTION FOR ADJACENT CONSTRUCTION.

STEP 1: REMOVAL OF DETERIORATED CONCRETE



TYPICAL PRECAST CONCRETE UNIT REPAIR WITH JAHN M90

STEP 2: INSTALLATION OF REPAIR PRODUCT



TYPICAL PRECAST CONCRETE REPAIR PROCEDURES

JAHN M90 - PRECAST CONCRETE REPAIR

- CLEANING & SOUNDING**
 - CLEAN ALL CAST IN PLACE CONCRETE SURFACES BY SAND-BLASTING TO REMOVE EXISTING PAINT AND LOOSE CONCRETE.
 - CLEAN PRECAST CONCRETE SURFACES BY POWER-WASHING.
 - SOUND SURFACES FOR DELAMINATION AND SUBMIT DOCUMENTATION OF AREAS TO BE REMOVED AND REPAIRED.
- SURFACE PREPARATION**
 - JOINTS MUST BE FREE OF ALL DUST, DIRT, GREASE, LAITANCE AND/ OR ANY SUBSTANCE WHICH MAY HINDER ADHESION.
 - REMOVE ALL LOOSE AND DETERIORATED CONCRETE FROM THE REPAIR AREA (MINIMUM DEPTH 1/2")
 - SIDES OF REPAIR AREA SHOULD BE SQUARE CUT
 - WASH THE PREPARED SURFACE WITH CLEAN WATER AND A BRISTLE BRUSH TO REMOVE DUST FROM THE PORES
- APPLICATION**
 - MOISTEN THE SUBSTRATE USING CLEAN WATER
 - JAHN MORTAR SHOULD BE APPLIED TO A GLISTENING WET SURFACE ON VERTICAL APPLICATIONS AND TO A DAMPENED SURFACE ON HORIZONTAL APPLICATIONS (WITH NO POOLING WATER). IF THE SURFACE DRIES OUT, THIS STEP MUST BE REPEATED.
 - JAHN MORTAR SHOULD BE MIXED WITH WATER TO THE CONSISTENCY OF WET PUTTY.
 - APPLY TO THE GLISTENING WET SUBSTRATE APPROXIMATELY 1/8" THICK
 - WHEN REPAIRING HORIZONTAL SURFACES USING M90 HG APPLY MATERIAL FLUSH TO THE SURFACE AND FINISH TO A TIGHT STEEL TROWELED FINISH, FLOAT, OR BROOM TO ACHIEVE A TEXTURED AFFECT
 - M90 MAY BE PLACED IN DEEP APPLICATIONS USING SUCCESSIVE LIFTS
 - IF A CEMENT SKIN FORMS BETWEEN APPLICATIONS SCRAPE AWAY ENOUGH TO REMOVE
- CURING**
 - PERIODICALLY MIST M90 REPAIRS USING CLEAN WATER FOR AT LEAST 72-HOUR PERIOD
 - HOT, DRY CONDITIONS MISTING IN 30 TO 60 MIN
 - COOLER, DAMP CONDITIONS SEVERAL HOURS BEFORE MISTING
- SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.**

JAHN M110- HISTORIC POINTING MORTAR

- REMOVAL**
 - REMOVE ALL EXISTING LAYERS OF STUCCO/PLASTER, INCLUDING WIRE MESH, DOWN TO EXISTING BRICK FACE.
- SURFACE PREPARATION**
 - JOINTS MUST BE FREE OF ALL DUST, DIRT, GREASE, LAITANCE AND/ OR ANY SUBSTANCE WHICH MAY HINDER ADHESION.
 - REMOVE ALL LOOSE AND DETERIORATED MORTAR.
 - RINSE JOINTS WITH CLEAN WATER
- POINTING**
 - MOISTEN THE JOINT USING CLEAN WATER. IF THE SURFACE DRIES OUT BEFORE APPLYING M110, THIS STEP MUST BE REPEATED
 - MORTAR SHOULD BE APPLIED ONE LIFT USING APPROPRIATE TOOLS
 - PLACE MORTAR INTO THE JOINT SO THAT THE ORIGINAL JOINT PROFILE IS MATCHED
- CURING**
 - PERIODICALLY MIST M110 JOINTS USING CLEAN WATER FOR AT LEAST 72-HOUR PERIOD
 - HOT, DRY CONDITIONS MISTING IN 30 TO 60 MIN
 - COOLER, DAMP CONDITIONS SEVERAL HOURS BEFORE MISTING
 - DO NOT USE WATER OR SOLVENTS IMMEDIATELY AFTER APPLICATION TO WASH OFF EXCESS MORTAR
- SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.**

JAHN M60 STUCCO/ PLASTER MORTAR

- SURFACE PREPARATION**
 - SURFACES MUST BE FREE OF ALL DUST, DIRT, GREASE, LAITANCE AND/ OR ANY SUBSTANCE WHICH MAY HINDER ADHESION.
 - REMOVE ALL LOOSE OR FRIABLE MORTAR BEFORE Jahn M60 APPLICATION
 - SIDE OF REPAIR AREA SHOULD BE "SQUARE CUT" WITH EDGES AND A MINIMUM OF 1/4" DEPTH
 - SURFACE TO BE WASHED WITH CLEAN WATER AND BRISTLE BRUSH
 - SUBSTRATE REQUIRES INTENSIVE PRESOAKING PRIOR TO APPLICATION.
 - ALL NECESSARY JOINT REPAIRS SHOULD BE COMPLETED WITH Jahn M110 POINTING MORTAR 21 DAYS PRIOR TO THE APPLICATION OF M60.
- APPLICATION**
 - MOISTEN THE SUBSTRATE USING CLEAN WATER, PRESOAK UNTIL SATURATED. IF THE SURFACE DRIES OUT BEFORE APPLYING M60, THIS STEP MUST BE REPEATED
 - WHILE MATERIAL IS STILL WORKABLE, WIPE THE SURFACE WITH A DRY SPONGE IN ORDER TO PREVENT SURFACE MAP CRACKING OF MATERIAL. NEVER USE A DAMP SPONGE FOR FINAL FINISHING.
 - WHILE MATERIAL IS STILL WORKABLE, TOOL SURFACE TO REPLICATE RUSTICATION PATTERN PER TRAINING INSTRUCTIONS BY CATHEDRAL STONE REPRESENTATIVE.
- CURING**
 - PERIODICALLY MIST M60 REPAIRS WITH CLEAN WATER FOR AT LEAST A 72- HOUR PERIOD.
 - HOT, DRY CONDITIONS MISTING IN 30 TO 60 MIN
 - COOLER, DAMP CONDITIONS SEVERAL HOURS BEFORE MISTING
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TYPICAL CONCRETE DETAILS

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CHECKED BY:	JFN

S2.1

WOOD RESTORATION GENERAL NOTES.

1. DIMENSIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. CONTRACTOR TO CONFIRM EXACT DIMENSIONS IN ORDER TO REPLICATE EXISTING BASES TO BE REPLACED.
2. ALL NEW WOOD TO BE CLEAR, STRAIGHT GRAINED DOUGLAS FIR
3. GLUE SYSTEM TO BE EXTERIOR GRADE TYPE III PVA GLUE BY TITEBAND,
4. FINISH PAINT TO BE WHITE GLOSS OIL BASE SYSTEM. 1 COAT OIL BASE WHITE PRIMER + 2 COATS RUST-OLEUM 206999 MARINE TOPSIDE PAINT WHITE. DO NOT PAINT SURFACES WHICH REQUIRE FIELD GLUING DURING BASE ASSEMBLY (COVE & BULLNOSE PIECES). SHOP APPLY PRIMER + 1 FINISHED COAT AND APPLY FINAL FIELD FINISH COAT AFTER ASSEMBLY.
5. ALL FASTENERS TO BE STAINLESS STEEL.
6. SEALANTS TO BE SIKAFLEX - 221 WHITE POLYURETHANE.
7. CONTRACTOR TO SHORE COLUMNS TO ALLOW FOR COMPLETE BASE REMOVALS AND INSTALLATION OF NEW BASE ANCHORS AND FINISHES.
8. SCREWS TO BE STAINLESS STEEL, SELF DRILLING AUGER POINT WITH NARROW BRIDGE HEAD. COUNTERSINK AND SEALANT FILL PRIOR TO FINAL PAINT COATING.



Consulting Engineers, P.C.

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No.	DESCRIPTION	DATE
4	Construction Documents for ReBid	1/14/19
ISSUED DRAWINGS		

NOTES:
CONTRACTOR TO SUBMIT CERTIFICATIONS FOR ALL WORKERS ON SITE FOR COMPLETED 2-DAY ONSITE TRAINING WITH CATHEDRAL STONE PRODUCTS

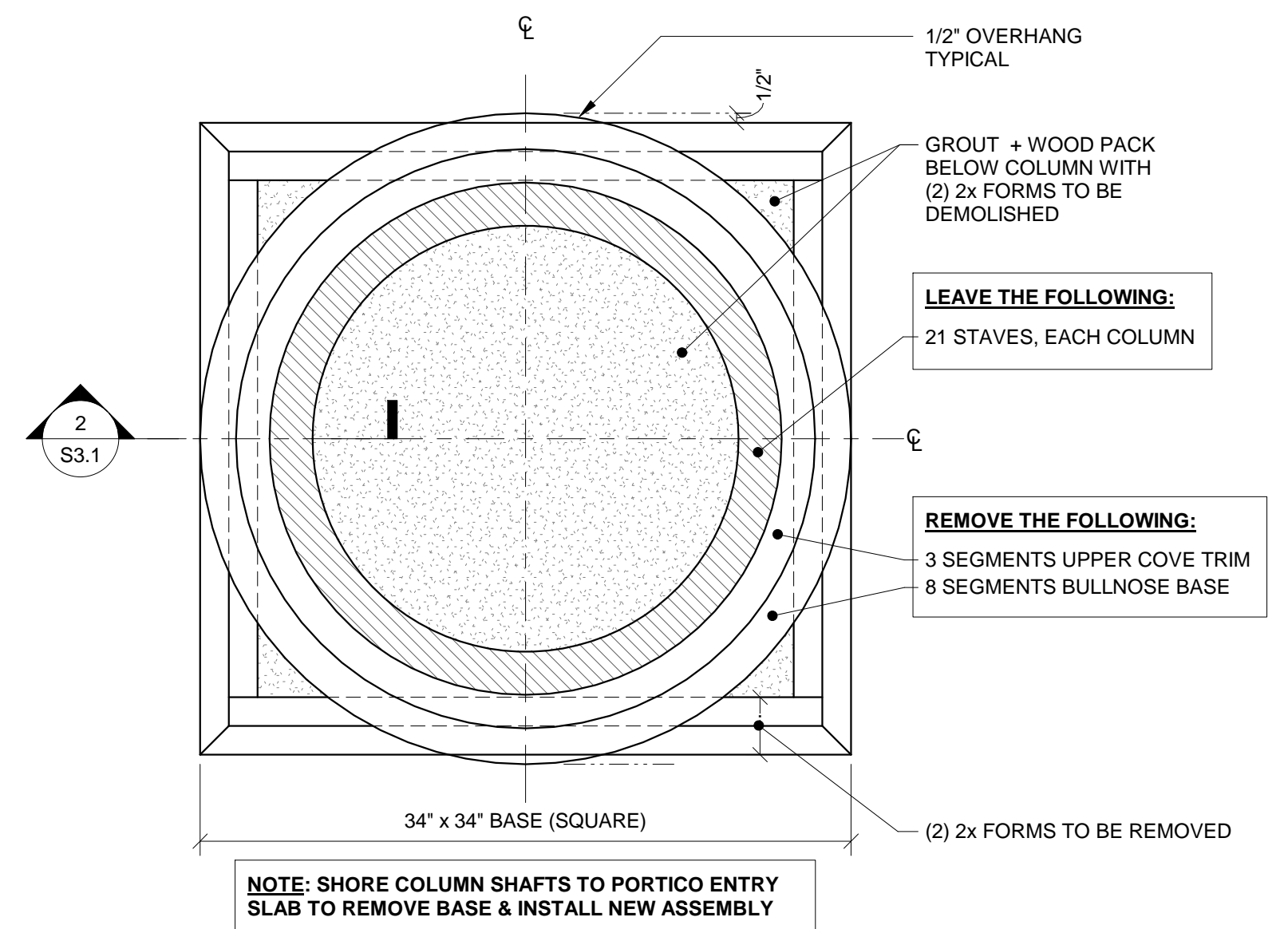
KATHARINE HEPBURN CULTURAL ARTS CENTER
300 MAIN STREET
OLD SAYBROOK, CT

BID SET

PORTICO WOOD COLUMN BASE CONDITION & REPAIRS

SCALE:	As indicated
PROJECT NUMBER:	17207
DATE:	09/01/2018
DRAWN BY:	JJS
CHECKED BY:	AJ / JFN

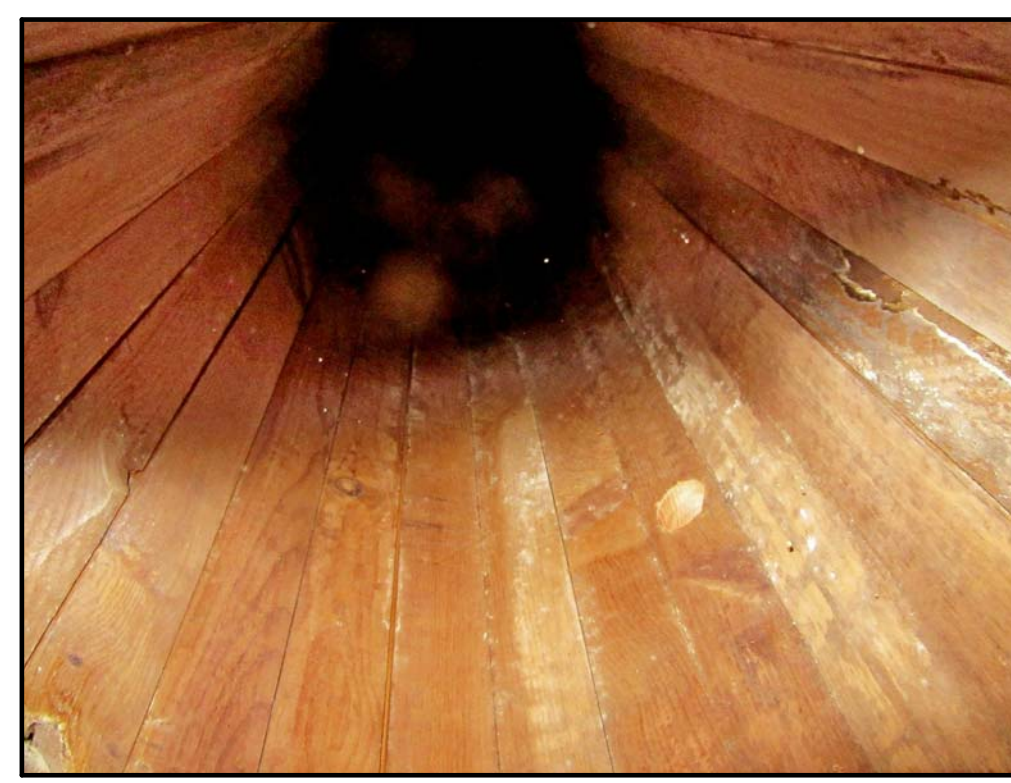
S3.1



1 EXISTING TYPICAL COLUMN BASE PLAN
1 1/2" = 1'-0"



INTERIOR OF COLUMN BASE WITH VERTICAL STAVES AND 2 PART BULLNOSE BASE. NOTE VENTILATION HOLE IN SHAFT
PHOTO C01



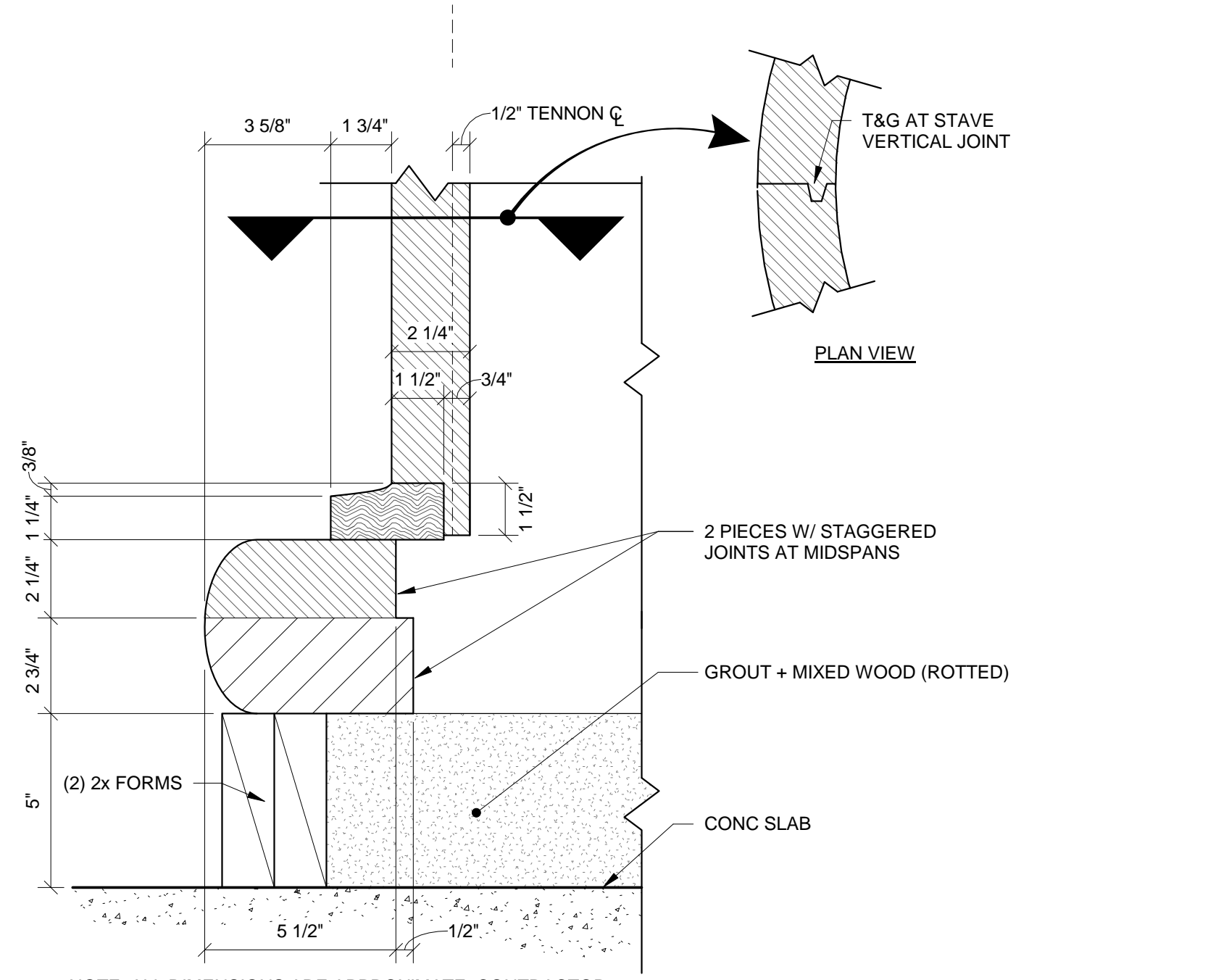
INTERIOR VIEW OF COLUMN LOOKING UPWARDS ALONG WOOD STAVES.
PHOTO C02



1/8 SEGMENT OF ROTTED BULLNOSE 2 PART BASE. ROTTED AND EASILY REMOVED BY HAND
PHOTO C03

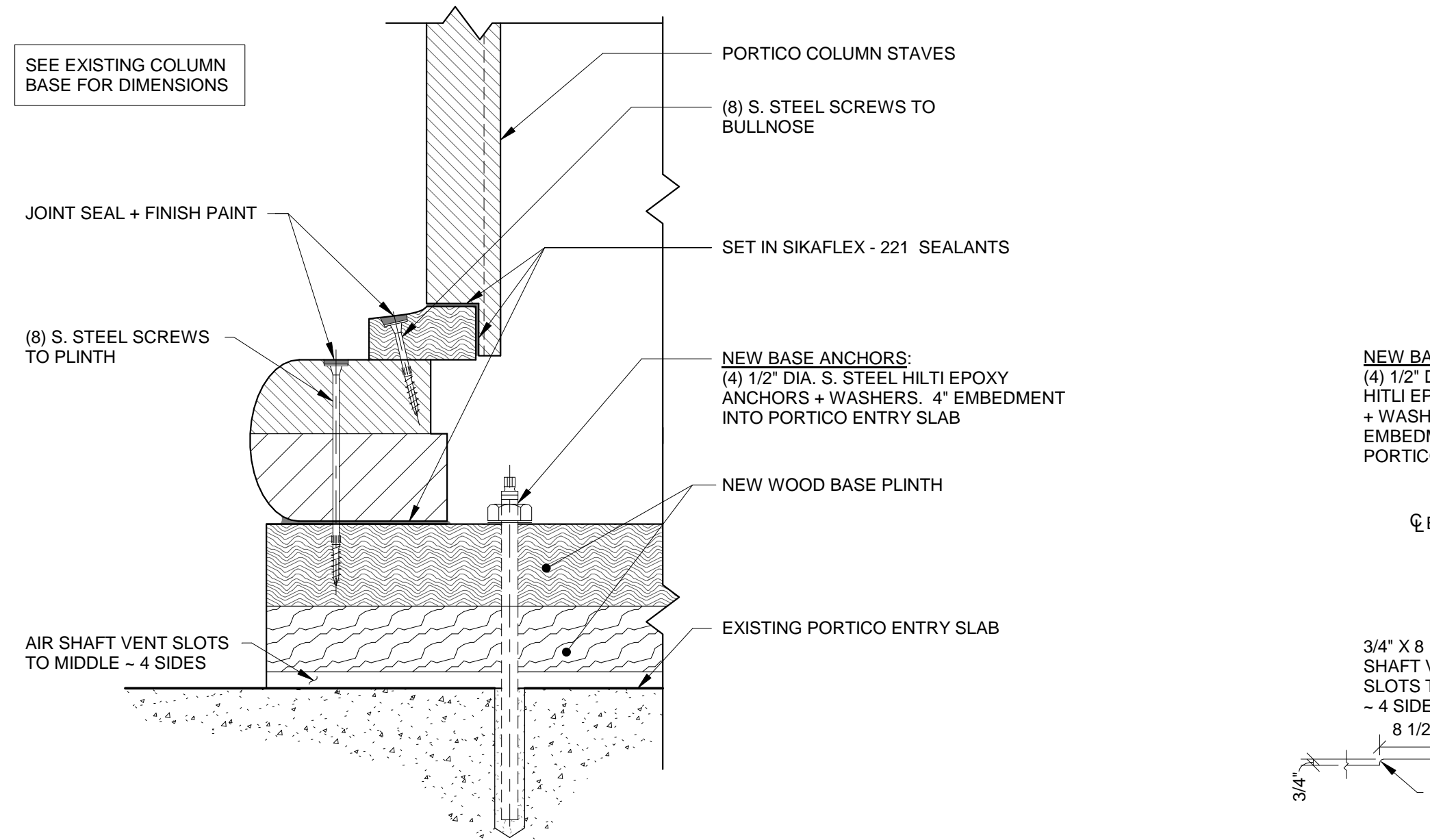


CLOSE UP OF AREA OF REMOVED BULLNOSE BASE SEGMENT. NOTE ROTTED COVE BASE TRIM ABOVE BULLNOSE SEGMENTS.
PHOTO C04

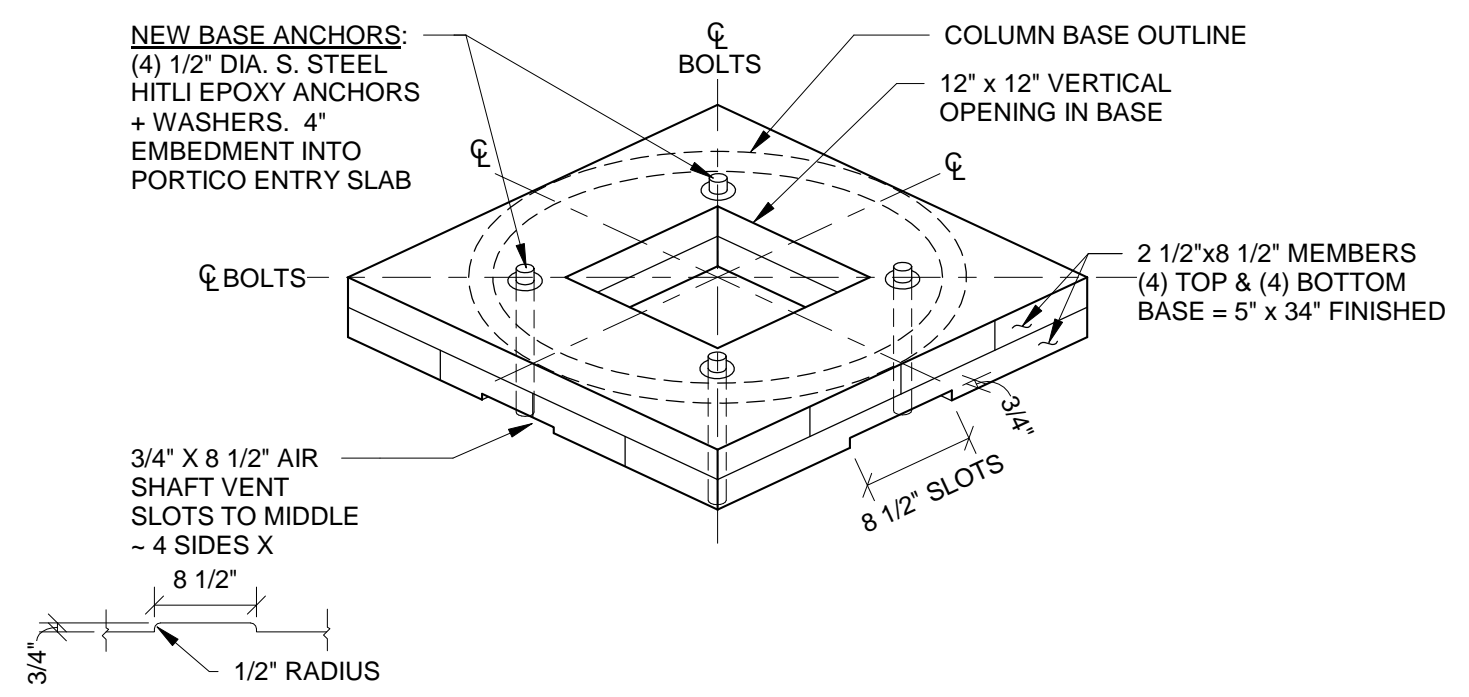


2 EXISTING SECTION AT COLUMN BASE
3\"/>

NOTE: ALL (E) ALUMINUM VENTS AT COLUMNS TO BE REPLACED IN KIND



3 NEW SECTION AT COLUMN BASE
3\"/>



4 NEW SQUARE PLINTH BASE - WOOD (ISOMETRIC VIEW)
3/4\"/>