

BUILDING CODE SUMMARY

GENERAL INFORMATION

Name of Project: DUNCAN CHAPEL FIRE DISTRICT, STATION 2
 Address: 335 FOOT HILLS RD, GREENVILLE, SC 29617
 Proposed Use: R-2 - RESIDENTIAL
 Owner or Authorized Agent: DUNCAN CHAPEL FIRE DEPT. Phone #: 864-284-4827 E-Mail: _____
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County GREENVILLE State

APPLICABLE CODES:

INTERNATIONAL BUILDING CODE, 2012 EDITION.
 INTERNATIONAL FIRE CODE, 2012 EDITION.
 INTERNATIONAL PLUMBING CODE, 2012 EDITION.
 INTERNATIONAL MECHANICAL CODE, 2012 EDITION.
 INTERNATIONAL FUEL GAS CODE, 2012 EDITION.
 NATIONAL ELECTRICAL CODE, 2011 EDITION.
 INTERNATIONAL ENERGY CONSERVATION CODE, 2009 EDITION.
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
 2009 ICC/ANSI A117.1
 UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS)

BUILDING DATA

Construction Type: I-A I-B II-A II-B III-A III-B IV V-A V-B

Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D

Standpipes: No Yes Class I II Wet Dry

Fire District: No Yes (Primary) Flood Hazard Area: No Yes

Building Height: 23'-6" Feet

Gross Building Area:	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
FLOOR:			
6th Floor:	-	-	-
5th Floor:	-	-	-
4th Floor:	-	-	-
3rd Floor:	-	-	-
2nd Floor:	-	-	-
Mezzanine:	-	-	-
1st Floor:	-	5,283	5,283
Basement:	-	-	-
TOTAL	-	5,283	5,283

ALLOWABLE AREA

Occupancy: A-1 A-2 A-3 A-4 A-5

Factory-Industrial: F-1 Moderate F-2

High-Hazard: H-1 Detonate H-2 Detonate H-3 Combust H-4 Health H-5 HPM

Institutional: I-1 I-2 I-3 I-4

I-3 Use Condition: 1 2 3 4 5

Mercantile:

Residential: R-1 R-2 R-3 R-4

Storage: S-1 Moderate S-2 Low High-Piled

Utility and Miscellaneous:

Accessory Occupancies: A-1 A-2 A-3 A-4 A-5

Factory-Industrial: F-1 Moderate F-2

High-Hazard: H-1 Detonate H-2 Detonate H-3 Combust H-4 Health H-5 HPM

Institutional: I-1 I-2 I-3 I-4

I-3 Use Condition: 1 2 3 4 5

Mercantile:

Residential: R-1 R-2 R-3 R-4

Storage: S-1 Moderate S-2 Low High-Piled

Utility and Miscellaneous:

Mixed Occupancy: No Yes

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 503.5 AREA	(C) AREA FOR OPEN SPACE INCREASE 1	(D) AREA FOR SPRINKLER INCREASE 2	(E) ALLOWABLE AREA OR UNLIMITED 3	(F) MAXIMUM BUILDING AREA 4
1	R2 - RESIDENTIAL	5,283	7,000	5,250	21,000	26,250	26,250
2	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-

Open space area increases from Section 506.2 are computed as follows:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width: $\frac{323 \times 107}{323 \times 107}$ (F)
 b. Total Building Penetration = 1.0 (F/P)
 c. Ratio (F/P) = 1.0 (F/P)
 d. W = Minimum Width of Public Way = 30 (W)
 e. Percent of Frontage Increase: $1 = 100 [(1 - 0.25) \times 1/30]$ = 75 (%)

2. The Sprinkler Increase per Section 506.3 is as follows:
 a. Multi-Story Building I = 200 Percent,
 b. Single Story Building I = 300 Percent

3. Unlimited area applicable under conditions of Section 507

4. Maximum Building Area = Total number of stories in the building x E but not greater than 3 x E.

5. The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT

ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE			
TYPE OF CONSTRUCTION	TYPE	V-B				
BUILDING HT. IN FEET	FEET	40	FEET = H + 20 = 60	TYPE	V-B	IBC TABLE 503
BUILDING HT. IN STORIES	STORIES	2	STORIES + 1 = 3	STORIES	1	IBC TABLE 503

PLUMBING FIXTURE REQUIREMENTS

USE	WATERCLOSETS		URINALS		LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE		
SPACE	EXISTING	-	-	-	-	-	-	-
NEW	1	2	1	1	1	1	2	1
REQUIRED	1	1	1	1	1	1	2	1

ACCESSIBLE PARKING

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE PROVIDED
	19	1	1
		1	2
TOTAL	19	1	2

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders and trusses	N/A	N/A	N/A	---	---	---
Bearing Walls						
Exterior						
North	>30	OHR	OHR	---	---	---
East	>30	OHR	OHR	---	---	---
West	>30	OHR	OHR	---	---	---
South	>30	OHR	OHR	---	---	---
Interior	N/A	OHR	OHR	---	---	---
Non-Bearing walls and Partitions						
Exterior						
North	>30	OHR	OHR	---	---	---
East	>30	OHR	OHR	---	---	---
West	>30	OHR	OHR	---	---	---
South	>30	OHR	OHR	---	---	---
Interior	N/A	OHR	OHR	---	---	---
Floor construction including support beams and joists	N/A	OHR	OHR	---	---	---
Roof construction including support beams and joists	N/A	OHR	OHR	---	---	---
Shafts Enclosures - Exit	N/A	N/A	N/A	---	---	---
Shafts Enclosures - Other	N/A	N/A	N/A	---	---	---
Corridor-Separation	N/A	N/A	N/A	---	---	---
Occupancy Separation	N/A	1HR	1HR	AD06	U036	---
Party/Fire Wall Separation	N/A	N/A	N/A	---	---	---
Smoke Barrier Separation	N/A	N/A	N/A	---	---	---
Tenant Separation	N/A	N/A	N/A	---	---	---
Incidental Use Separation	N/A	N/A	N/A	---	---	---

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes

Exit Signs: No Yes

Fire Alarm: No Yes Partial

Smoke Detection Systems: No Yes

Panic Hardware: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: AD02

Fire and/or smoke rated wall locations

Assumed and real property line locations

Exterior wall opening area with respect to distance to assumed property lines

Existing structures within 30' of the proposed building

Occupancy types for each area as it relates to occupant load calculation

Occupant loads for each area

Exit access travel distances

Common path of travel distances

Dead end lengths

Clear exit widths for each exit door

Maximum calculated occupant load capacity each exit door can accommodate based on egress width

Actual occupant load for each exit door

A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

Location of doors with panic hardware

Location of doors with delayed egress locks and the amount of delay

Location of doors with electromagnetic egress locks

Location of doors equipped with hold-open devices

Location of emergency escape windows

The square footage of each fire area

The square footage of each smoke compartment

Note any exceptions or table notes that may have been utilized regarding the items above

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost budget vs allowable annual energy cost budget.

Climate Zone: 3 4 5

Method of Compliance: Prescriptive (Energy Code)
 Performance (Energy Code)
 Prescriptive (ASHRAE 90.1)
 Performance (ASHRAE 90.1)

THERMAL ENVELOPE

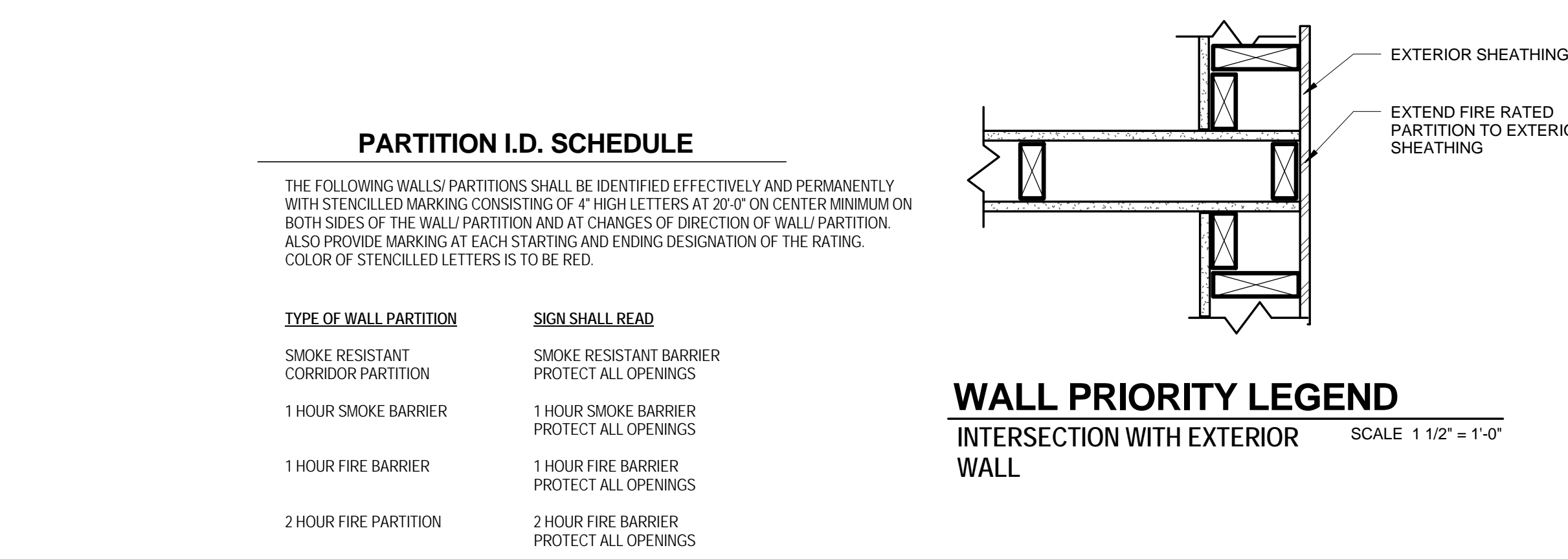
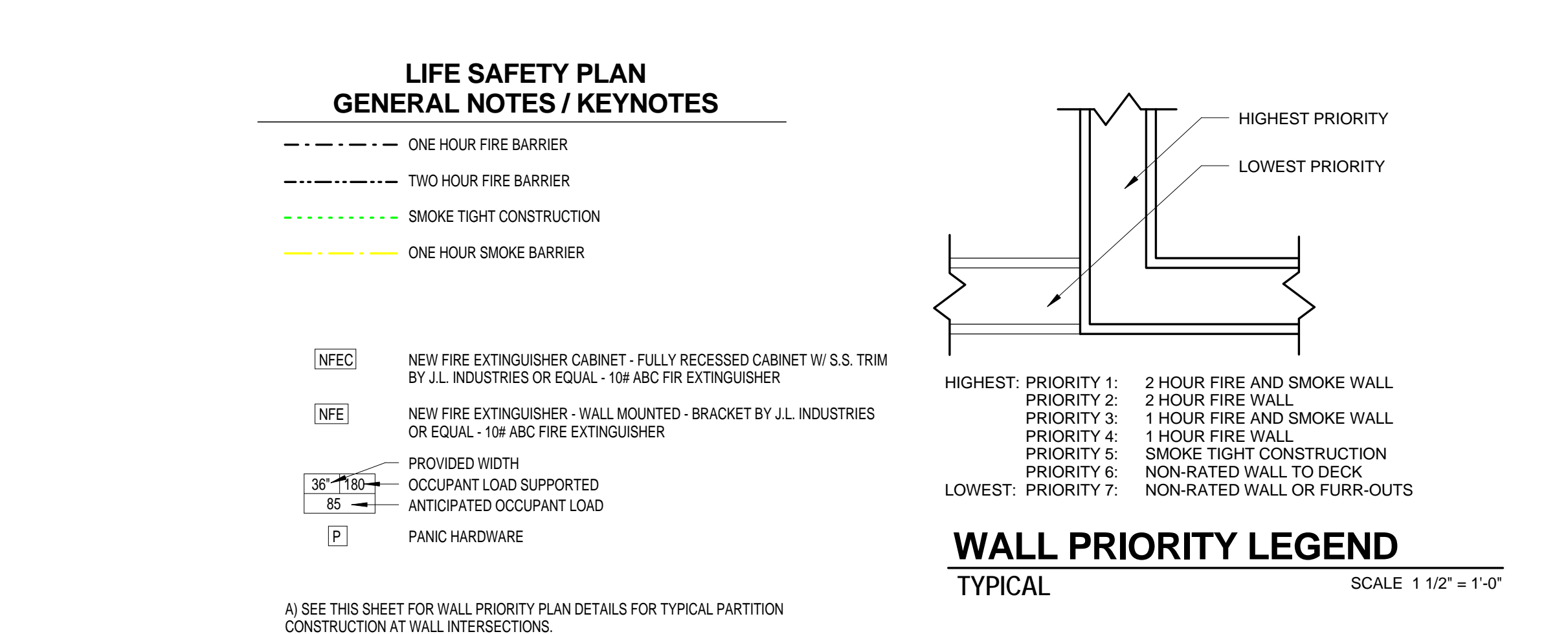
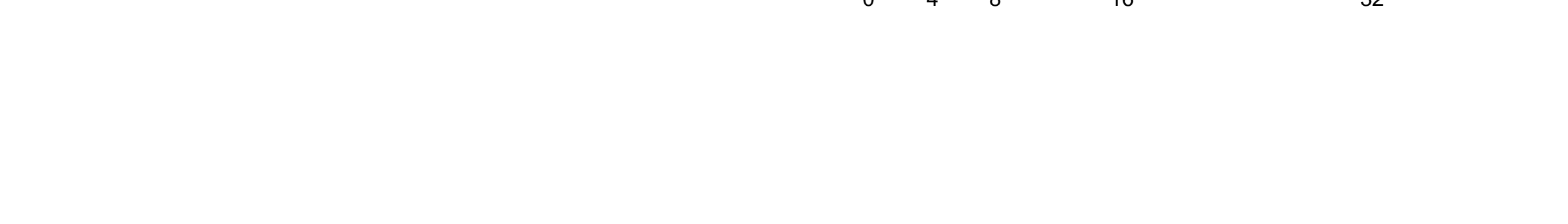
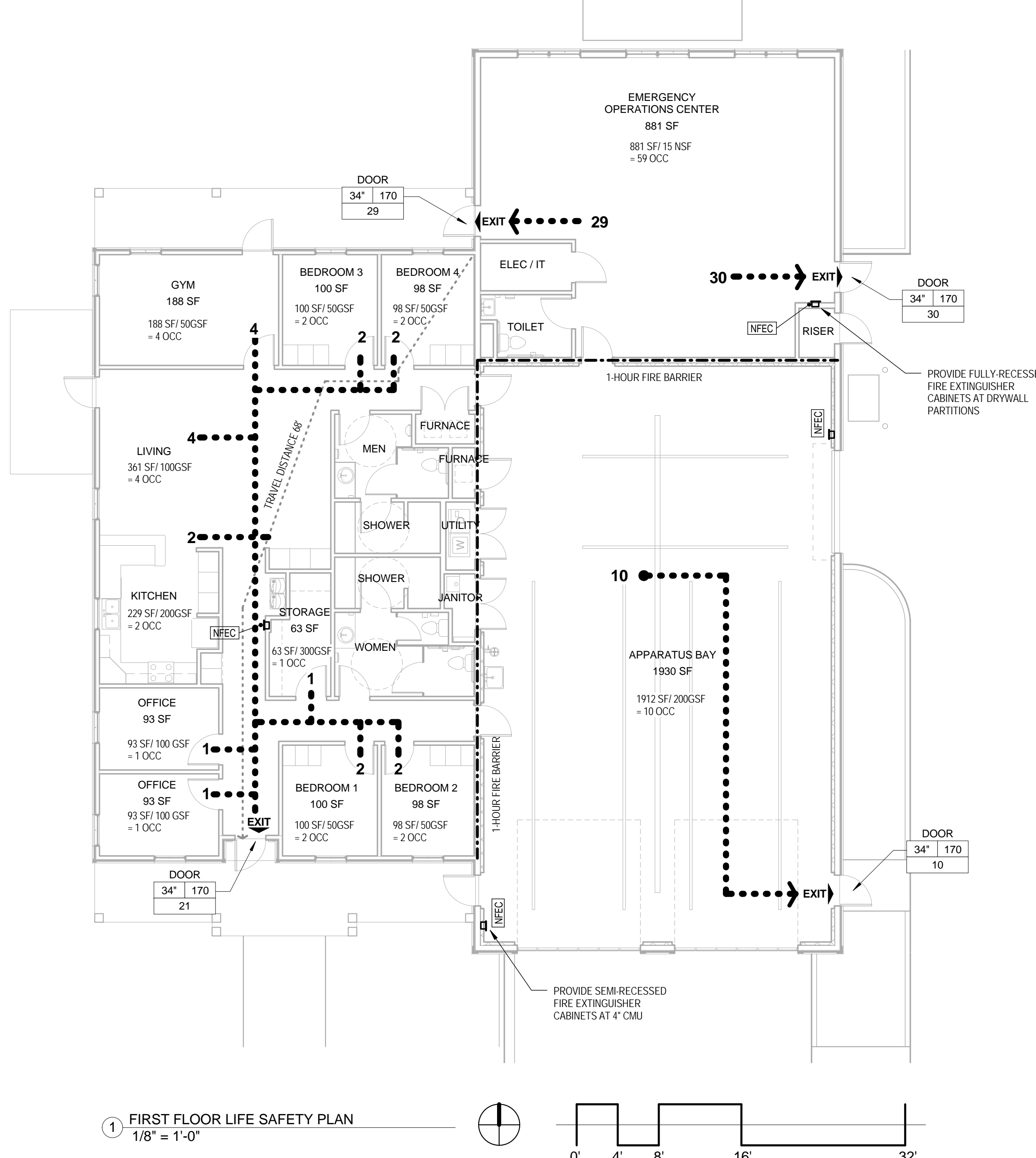
Roof/Ceiling Assembly (each assembly): ASPHALT SHINGLES, ROOF SHEATHING, WOOD TRUSSES, BATT INSULATION @ CEILING
 Description of assembly: _____
 U-Value of total assembly: 0.033
 R-Value of insulation: 3.30
 S/W/P/R in each assembly: _____
 U-Value of Skylight: N/A
 Total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly): VINYL SIDING, 1/2" EXT. SHEATHING, 3 1/2" BATT S, 5/8" GWB
 Description of assembly: _____
 U-Value of total assembly: 0.070
 R-Value of insulation: 1.43
 Opening: windows or doors with glazing
 U-Value of assembly: N/A
 Solar heat gain coefficient: N/A
 Projection factor: N/A
 Door R-Value: N/A

Walls below grade: _____
 Description of assembly: N/A
 U-Value of total assembly: N/A
 R-Value of insulation: N/A

Floors over unconditioned space (each assembly): _____
 Description of assembly: N/A
 U-Value of total assembly: N/A
 R-Value of insulation: N/A

Floors Slab On Grade: _____
 Description of assembly: 4" CONCRETE SLAB, 4" GRAVEL
 U-Value of total assembly: 0.05
 R-Value of insulation: 20.00
 Horizontal/vertical requirement: NOT REQUIRED
 Sub heated: N/A



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DUNCAN CHAPEL FIRE DISTRICT STATION 2
 NEW FACILITY
 GREENVILLE, SC

Keyplan



Issued for Permit
 Revision

CODE ANALYSIS AND LIFE SAFETY PLAN

A0.02

In Charge: _____
 Drawn By: _____
 Checked By: _____

Approver: _____
 Author: _____
 Checker: _____

Project Number: 1033.00.00
 Date: 11/18/2014



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TERMS

1. ALL WORK NOTED BY OTHERS OR "N/C" WILL BE ACCOMPLISHED BY CONTRACTORS OTHER THAN THE GENERAL CONTRACTOR AND IS NOT TO BE PART OF THE CONSTRUCTION AGREEMENT. THE GENERAL CONTRACTOR IS TO COORDINATE WITH OTHER CONTRACTORS AS REQUIRED.
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER GRAPHIC SCALE.
3. "ALON" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES TO THE SAME PLANE OR AT A 90° ANGLE AS SHOWN ON DRAWINGS.
4. "TYPICAL" AS USED IN THESE DRAWINGS SHALL MEAN THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.

BUILDING RULES

1. ITEMS LISTED BELOW ARE APPLICABLE TO ALL CONTRACTORS, VENDORS, SUPPLIERS AND MATERIAL HANDLERS. A VIOLATION, IN WHOLE, OR IN PART, COULD BE CAUSE FOR REMOVAL FROM THE BUILDING, AND COULD JEOPARDIZE THE CONTRACT.
2. THE BUILDING OWNER WILL PROVIDE TO THE CONTRACTOR, BUILDING STANDARDS, REGULATIONS, AND ANY OTHER ADDITIONAL INFORMATION FOR BUILDING STANDARD COMPLIANCE.
3. PURCHASE AND MAINTAIN CERTIFICATIONS OF INSURANCE WITH RESPECT TO WORKERS COMPENSATION, PUBLIC LIABILITY, AND PROPERTY DAMAGE FOR LIMITS AS REQUIRED BY LAW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING SAFETY PRECAUTIONS IN CONNECTION WITH WORK. PROOF OF CERTIFICATE OF NECESSARY INSURANCE SHALL BE FILED WITH OWNER TO IDENTIFY AND HOLD HARMLESS OWNER, ARCHITECT AND AGENTS THEREOF FROM DAMAGES AND LOSSES RESULTING FROM EXECUTION OF WORK.
4. DO NOT ALLOW DEBRIS TO ACCUMULATE. REMOVE AND DISPOSE OF ALL DEBRIS CAUSED BY CONSTRUCTION, LEAVING THE CONSTRUCTION SITE CLEAN. FAILURE TO DO SO COULD RESULT IN A CHARGE TO THE CONTRACTOR, WITH THE WORK COMPLETED BY OTHERS.
5. DAMAGE CAUSED BY THE CONTRACTOR TO THE BUILDING OR ITS SYSTEMS ARE TO BE REPAIRED IMMEDIATELY AFTER RECEIVING NOTICE. FAILURE TO DO SO COULD RESULT IN A CHARGE TO THE CONTRACTOR, WITH THE WORK TO BE COMPLETED BY OTHERS.
6. WHEN NECESSARY, PROVIDE AND INSTALL PROTECTIVE COVERINGS FOR SURFACES THAT ARE SUBJECT TO DAMAGE OF ANY TYPE.
7. NO SPACE OTHER THAN THE CONSTRUCTION SITE SHALL BE PROVIDED FOR STORAGE, STAGING, FINISHING OR FOR AN OFFICE UNLESS COORDINATED WITH THE OWNER.
8. COORDINATE CONSTRUCTION NEEDS FOR PHONE, POWER, LIGHTING, ETC. WITH OWNER PRIOR TO CONSTRUCTION.
9. WHERE PIPES, CONDUITS, OR LOW TENSION WIRING PENETRATES FIRE-RATED ENCLOSURE, SUCH AS WALL OR SLAB, THE SPACE AROUND SUCH PENETRATION SHALL NOT EXCEED 1/2" AND SHALL BE PACKED SOLID WITH MINERAL WOOL OR EQUAL, AND THEN CLOSED OFF WITH A TIGHT FITTING ESCUTCHEON OR EQUAL ON BOTH SIDES OF THE RATED ENCLOSURE TO INSURE FULL FIRE-RATING COMPLIANCE WITH THE BUILDING CODE.
10. FINISH SURFACES SHALL HAVE A FLAME SPREAD RATING EQUAL TO OR BETTER THAN THAT REQUIRED BY THE BUILDING CODE.
11. BUILDING OWNER OR ARCHITECT RESERVES THE RIGHT TO REJECT ANY SUBCONTRACTOR IF IT IS THE ARCHITECT'S OPINION THAT: (1) SHOP CAPACITY, EXPERIENCE OF WORKMEN, EQUIPMENT, OR COST OF MATERIALS WILL NOT RESULT IN THE REQUIRED QUALITY AND WITHIN THE TIME OF COMPLETION, OR (2) PREVIOUS PERFORMANCE HAS BEEN UNSATISFACTORY.

SHOP DRAWINGS, SAMPLES AND LITERATURE

1. REVIEW, ADD REQUIRED FIELD DIMENSIONS, STAMP AND FORWARD ONE SET OF DIGITAL SHOP DRAWINGS AND TWO SETS OF SAMPLES TO ARCHITECT FOR APPROVAL.
2. PRIOR TO START OF CONSTRUCTION OF ANY ITEMS AND/OR ORDERING OF FINISH MATERIALS, SUBMIT TO ARCHITECT, WITH AN ACCOMPANYING TRANSMITTAL, ONE (1) REPRODUCIBLE DRAWING AND ONE (1) PRINT OF REQUIRED SHOP DRAWINGS, FOR THE ARCHITECT'S RECORDS. CONTACT ARCHITECT PRIOR TO INSTALLATION IF ITEM DOES NOT MATCH APPROVED SAMPLE.
3. THESE SHALL BE NO SUBSTITUTION DURING BIDDING OF MATERIALS WHERE A MANUFACTURER IS SPECIFIED, WHERE THE TERM "OR EQUAL" IS USED, ARCHITECT ALONE SHALL DETERMINE EQUALITY BASED UPON INFORMATION AND COSTS SUBMITTED BY CONTRACTOR.
4. CHANGES IN SHOP DRAWINGS FROM DESIGN OR SPECIFICATIONS INDICATED MUST BE NOTED TO ARCHITECT FOR APPROVAL. ANY ITEM CLEARLY DIFFERENT THAN DESIGN INDICATED MAY BE REJECTED IN FIELD AT SUPPLIERS COST EVEN WITH APPROVED SHOP DRAWINGS.

GENERAL NOTES

1. ALL CONTRACTORS AND SUBCONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE SUBMITTING BIDS AND PROCEEDING WITH ANY WORK.
2. REVIEW DOCUMENTS WITH LOCAL BUILDING OFFICIAL, AND OBTAIN ALL PERMITS BEFORE START OF CONSTRUCTION. ARCHITECT AND OWNER MUST BE NOTIFIED OF DEFICIENCIES.
3. WORK SHALL CONFORM TO REQUIREMENTS OF CURRENT STATE, FEDERAL AND LOCAL BUILDING CODES AND ORDINANCES, OSHA, ADA AND OTHER APPLICABLE CODES AND GOVERNING AUTHORITY HAVING JURISDICTION.
4. THESE DRAWINGS REPRESENT VISUAL DESIGN INTENT AS EXPRESSED BY ARCHITECT. IN NO WAY ARE THEY MEANT TO DIRECT THE CONTRACTOR TO MATERIALS PERFORMING TO STRUCTURAL PERFORMANCE, FRAMING, SUPPORTS, MANUFACTURERS' INSTRUCTIONS, MILL WORK CONSTRUCTION, ETC. CONTRACTOR IS FULLY RESPONSIBLE FOR STRUCTURAL INTEGRITY AND PERFORMANCE OF ALL ITEMS CALLED FOR IN DRAWINGS. CONTACT ARCHITECT WITH CORRECTIONS INDICATED.
5. DURING PERIOD OF CONTRACT EXECUTION, INTERFERENCE FOUND WHICH MAY PROHIBIT THE DESIGN INTENT OF THESE DOCUMENTS MUST BE REPORTED TO ARCHITECT IMMEDIATELY. IF NOT IN ACCORDANCE WITH DESIGN INTENT, OR WHICH PROCEEDED WITHOUT APPROVAL FROM ARCHITECT AND/OR BUILDING OWNER SHALL BE LIABLE TO RECONSTRUCTION AT CONTRACTORS EXPENSE.
6. CONTRACTOR OR SUPPLIER SHALL NOT PROCEED WITH ANY WORK THAT CHANGES THE DESIGN INTENT UNLESS HE RECEIVES THE WRITTEN AUTHORIZATION FROM THE OWNER AND/OR ARCHITECT. FAILURE TO OBTAIN SUCH AUTHORIZATION MAY BE CONSIDERED AN ACT OF CONSTRUCTION VIOLATION. THE DOCUMENT TO BE USED SHALL BE THE "PROPOSAL REQUEST" ISSUED BY THE ARCHITECT.
7. CONTRACTOR OR SUPPLIER SHALL NOT PROCEED WITH ANY WORK FOR WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE WRITTEN CONTRACT UNLESS HE RECEIVES WRITTEN AUTHORIZATION FROM THE ARCHITECT. FAILURE TO OBTAIN SUCH AUTHORIZATION MAY INVALIDATE ANY CLAIM FOR ADDITIONAL COMPENSATION. THE DOCUMENT TO BE USED SHALL BE THE "PROPOSAL REQUEST" ISSUED BY THE ARCHITECT, AND APPROVED BY OWNER AND OWNER REPRESENTATIVE.
8. PROVIDE NON-COMBUSTIBLE BLOCKING IN WALL FOR WALL HUNG ITEMS INCLUDING, WALL HUNG OWNER PROVIDED ITEMS OR FURNITURE (NOT IN CONTRACT). COORDINATE WITH VENDOR AND SEE PLANS.
9. PROVIDE A LIST OF ALL ITEMS AND EQUIPMENT THAT WILL NOT BE INSTALLED, DELIVERED, OR FUNCTIONING BEFORE THE SCHEDULED OWNER MOVE IN DATE. LIST SHOULD ALSO INCLUDE WHEN WORK SHALL BE COMPLETED AND WHAT TEMPORARY MEASURES ARE INTENDED TO COMPENSATE FOR THE DELAYS. COSTS FOR KNOWN DELAYS SHOULD BE PART OF ORIGINAL BID AND LIST SHOULD BE PART OF CONTRACT BIDDING.

10. THE GENERAL CONTRACTOR TO PROVIDE A LIST OF SUBCONTRACTORS AND SCHEDULE OF THEIR WORK INCLUDING CRITICAL DATES TO MEET FINAL COMPLETION DATE.

11. THE GENERAL CONTRACTOR TO SCHEDULE PUNCH LIST TO TAKE PLACE A MINIMUM OF 5 WORKING DAYS BEFORE SCHEDULED OWNER OCCUPANCY DATE. THIS WILL ALLOW FOR FURNITURE AND FLOOR INSTALLATION, PROVIDE NOTIFICATION TO ARCHITECT AND OWNER WHEN PUNCH LIST ITEMS HAVE BEEN COMPLETED OR WHICH ITEMS REMAIN AND WHY. WORK REQUIRED AFTER OWNER MOVE IN SHALL BE COMPLETED AFTER OWNERS WORKING HOURS AND AT NO ADDITIONAL COST. COORDINATE REQUIRED WORK WITH OWNER AND PROTECT AND/OR MOVE ANY OWNER ITEMS AND FURNITURE IF NEEDED. PUNCHLIST ITEMS MUST BE COMPLETED WITHIN 30 DAYS OF PUNCH LIST DATE.

12. THE GENERAL CONTRACTOR TO PROVIDE A PROFESSIONAL CLEANING SERVICE PRIOR TO PUNCH LIST AND OWNER FURNITURE MOVE. THIS SHALL INCLUDE CLEANING GLASS, WAXING, WASHING, POLISHING, DUSTING, VACUUMING, ETC. WORK COMPLETED AFTER PUNCH LIST WILL ALSO BE CLEANED IN SUCH A MANNER. COORDINATE WITH OWNER FOR BUILDING SERVICES THAT MAY BE USED PRIOR TO BIDDING.

13. CERTIFICATES: A "CERTIFICATE OF OCCUPANCY" SHALL BE OBTAINED PRIOR TO MOVE IN DATE AND PRESENTED TO OWNER AT TIME OF PUNCH LIST WALK THRU.

14. COORDINATE WITH OWNER TO MAKE CERTAIN THAT HOUSEKEEPING ITEMS ARE COMPLETED PRIOR TO MOVE IN GENERAL CONTRACTOR TO HAVE A STANDBY PERSON ON SITE DURING MOVE TO PROVIDE FINAL ADJUSTMENTS OR PROBLEM SOLVING.

15. NO WORK DEFECTIVE IN WORKMANSHIP, QUALITY OR DEFICIENT IN REQUIREMENTS OF CONTRACT DOCUMENTS WILL BE ACCEPTABLE DESPITE THE ARCHITECT'S FAILURE TO DISCOVER OR POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION OR PUNCH LIST. DEFECTIVE WORK REVEALED WITHIN THE TIME PROVIDED BY GUARANTEES AND WARRANTIES SHALL BE REPLACED BY CONTRACTOR WITH WORK CONFORMING WITH THE INTENT OF THE CONTRACT. NO PAYMENT EITHER PARTIAL OR FINAL, SHALL BE CONSIDERED AS ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.

16. DURING COURSE OF CONSTRUCTION, DEVIATIONS FROM DRAWINGS SHALL BE INDICATED TO SCALE IN CONTRASTING INK ON THE DRAWINGS. UPON COMPLETION OF PROJECT, CONTRACTOR WILL PROVIDE ARCHITECT WITH A SET OF ORIGINAL DOCUMENTS CONSPICUOUSLY MARKED AS BUILD DOCUMENTATION.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISTRIBUTION OF DRAWINGS TO ALL TRADES UNDER HIS JURISDICTION.

18. FIRE RESISTIVE RATINGS: ALL MATERIALS INSTALLED SHALL BE FIRE RESISTIVE AND RATED AS TESTED AND APPROVED BY UNDERWRITERS LABORATORIES, AND MUST MEET THE REQUIREMENTS OF THE US PUBLIC HEALTH SERVICES. FIRE RESISTANT RATING OF MATERIALS SHALL BE A MINIMUM OF CLASS A AND MEET ALL FIRE CODES AND NOT LESS THAN THOSE APPLICABLE IN THE BUILDING. CONTRACTOR TO NOTIFY PROJECT DESIGNER IN WRITING IF MATERIALS SPECIFIED DO NOT MEET THE REQUIREMENTS.

SECTION 03300 - CAST-IN-PLACE CONCRETE

REFER TO STRUCTURAL DRAWINGS

SECTION 03354 - POLISHED CONCRETE FINISHING

PART ONE - GENERAL

1.1. SUMMARY

A. SECTION INCLUDES: PRODUCTS AND PROCEDURES FOR COLORING AND DIAMOND POLISHING CONCRETE FLOORS USING MULTISTEP MECHANICAL DRY MECHANICAL PROCESS, AND ACCESSORIES INDICATED, SPECIFIED, OR REQUIRED TO COMPLETE POLISHING.

1.2. SUBMITTALS

A. PRODUCT DATA, MANUFACTURERS' TECHNICAL LITERATURE FOR EACH PRODUCT INDICATED, SPECIFIED, OR REQUIRED, INCLUDE MANUFACTURERS' TECHNICAL DATA, APPLICATION INSTRUCTIONS, AND RECOMMENDATIONS.

B. INSTALLER QUALIFICATIONS: DATA FOR COMPANY, PRINCIPAL PERSONNEL, EXPERIENCE, AND TRAINING SPECIFIED IN PART 1 "QUALITY ASSURANCE" ARTICLE.

C. FIELD QUALITY CONTROL: - STATIC COEFFICIENT OF FRICTION TEST REPORTS: REPORTS OF TESTING SPECIFIED IN PART 3 "FIELD QUALITY CONTROL" ARTICLE.

D. MAINTENANCE DATA: FOR INCLUSION IN MAINTENANCE MANUAL.

1. INCLUDE MANUFACTURERS' INSTRUCTIONS FOR MAINTENANCE OF INSALLED WORK, INCLUDING METHODS AND FREQUENCY RECOMMENDED FOR MAINTAINING OPTIMUM CONDITION UNDER ANTICIPATED USE.

2. INCLUDE PRECAUTIONS AGAINST CLEANING PRODUCTS AND METHODS WHICH MAY BE DETRIMENTAL TO FINISHES AND PERFORMANCE.

1.3. QUALITY ASSURANCE

A. POLISHER QUALIFICATIONS:

1. EXPERIENCE: COMPANY EXPERIENCED IN PERFORMING SPECIFIED WORK SIMILAR IN DESIGN, PRODUCTS, AND EXTENT TO SCOPE OF THIS PROJECT WITH A RECORD OF SUCCESSFUL IN SERVICE PERFORMANCE, AND WITH SUFFICIENT PRODUCTION CAPABILITY, FACILITIES, AND PERSONNEL TO PRODUCE SPECIFIED WORK.

2. SUPERVISION: MAINTAIN COMPETENT SUPERVISOR WHO IS AT PROJECT DURING THOSE SPECIFIED WORK IS IN PROGRESS, AND IS CURRENTLY AVAILABLE TO SUPERVISE AND APPROVE WORK.

3. MANUFACTURER QUALIFICATION: APPROVED BY MANUFACTURER TO APPLY LIQUID APPLIED PRODUCTS.

8. WALKWAY AUDITOR: CERTIFIED BY NFSI TO TEST POLISHED FLOORS FOR STATIC COEFFICIENT OF FRICTION ACCORDING TO NFSI 101-A.

C. STATIC COEFFICIENT OF FRICTION: ACHIEVE NOT LESS THAN 0.6 FOR LEVEL FLOOR SURFACES AS DETERMINED BY QUALITY CONTROL TESTING ACCORDING TO NFSI 101-A.

D. FIELD MOCK-UP FOR AESTHETIC PURPOSES: BEFORE PERFORMING WORK OF THIS SECTION, PROVIDE AS MANY FIELD MOCK-UPS REQUIRED TO VERIFY SELECTIONS MADE UNDER SUBMITTALS AND TO DEMONSTRATE AESTHETICS OF POLISHING. APPROVAL DOES NOT CONSTITUTE APPROVAL OF DEVIATIONS FROM CONTRACT DOCUMENTS, UNLESS SUCH DEVIATIONS ARE SPECIALLY APPROVED BY ARCHITECT IN WRITING.

1. GRIND, HONE, AND POLISH 12 FEET SQUARE FLOOR AREA FOR EACH FINISH APPROVED UNDER SAMPLE SUBMITTALS. INCLUDE EDGES AND JOINTS.

2. USE SAFE PERSONNEL, INCLUDING SUPERVISORS, WHICH WILL PERFORM WORK.

3. INSTALL PRODUCTS AND MATERIALS ACCORDING TO SPECIFIED REQUIREMENTS.

4. WORK SHALL BE REPRESENTATIVE OF THOSE TO BE EXPECTED FOR WORK.

5. FINISH VARIOUS COMPONENTS TO SHOW MAXIMUM VARIATION THAT WILL EXIST IN WORK.

6. APPROVALS FOR FOLLOWING AESTHETIC QUALITIES:

a. COMPLIANCE WITH APPROVED SUBMITTALS.

b. UNIFORMITY OF EXPOSED AGGREGATE.

c. UNIFORMITY OF SHEEN.

d. UNIFORMITY OF COLOR.

7. OBTAIN ARCHITECT'S APPROVAL BEFORE STARTING WORK ON PROJECT.

8. MAINTAIN FIELD MOCK-UPS DURING CONSTRUCTION IN AN UNDISTURBED CONDITION AS A STANDARD FOR JUDGING COMPLETED WORK.

9. DO NOT DEMOLISH, ALTER, OR REMOVE FIELD MOCK-UPS UNTIL ACCEPTABLE TO OWNER AND ARCHITECT.

1.4. FIELD CONDITIONS

A. DAMAGE AND STAIN PREVENTION: TAKE PRECAUTIONS TO PREVENT DAMAGE AND STAINING OF CONCRETE SURFACES TO BE POLISHED.

1. PROHIBIT VEHICLE PARKING OVER CONCRETE SURFACES TO BE POLISHED.

2. PROHIBIT PIPE CUTTING OPERATIONS OVER CONCRETE SURFACES TO BE POLISHED.

3. PROHIBIT STORAGE OF ANY ITEMS OVER CONCRETE SURFACES TO BE POLISHED FOR NOT LESS THAN 28 DAYS AFTER CONCRETE PLACEMENT.

4. PROHIBIT FERRIC METAL STORAGE OVER CONCRETE SURFACES TO BE POLISHED.

5. PROTECT FROM PETROLEUM OIL, HYDRAULIC FLUID, OR OTHER LIQUID DRIPPING FROM EQUIPMENT WORKING OVER CONCRETE SURFACES TO BE POLISHED.

6. PROTECT FROM OILS AND ACIDIC DETERGENTS CONTACTING CONCRETE SURFACES TO BE POLISHED.

7. PROTECT FROM PAINTING ADDITIVES OVER CONCRETE SURFACES TO BE POLISHED.

8. ENVIRONMENTAL LIMITATIONS: COMPLY WITH MANUFACTURERS' WRITTEN INSTRUCTIONS FOR SUBSTRATE TEMPERATURE, AMBIENT TEMPERATURE, MOISTURE, VENTILATION, AND OTHER CONDITIONS AFFECTING LIQUID APPLIED PRODUCT APPLICATION.

SECTION 04220 - CONCRETE MASONRY UNIT - CONT.

B. INITIAL GRINDING:

1. USE GRINDING EQUIPMENT WITH METAL BONDED GRINDING PADS.

2. BEGIN GRINDING IN ONE DIRECTION USING SUFFICIENT SIZE GRIIT PAD.

3. MAKE SEQUENTIAL PASSES WITH EACH PASS PERPENDICULAR TO PREVIOUS PASS USING FINER GRIIT PAD WITH EACH PASS. UP TO 150 GRIIT.

4. ACHIEVE MAXIMUM REFINEMENT WITH EACH PASS BEFORE PROCEEDING TO FINER GRIIT PADS.

5. VACUUM FLOOR USING SQUEEGEE VACUUM ATTACHMENT AFTER EACH PASS.

6. CONTINUE GRINDING UNTIL AGGREGATE EXPOSURE MATCHES APPROVED FIELD MOCK-UPS.

C. TREATING SURFACE IMPERFECTIONS:

1. MIX PATCHING COMPOUND AND GROUT MATERIAL WITH DUST CREATED BY GRINDING OPERATIONS TO MATCH COLOR OF ADJACENT CONCRETE SURFACE.

2. FILL SURFACE IMPERFECTIONS INCLUDING, BUT NOT LIMITED TO: HOLES, SURFACE DAMAGE, SMALL AND MICRO CRACKS, AIR HOLES, POP-OUTS, AND VOID.

3. WORK COMPOUND AND TREATMENT UNTIL COLOR DIFFERENCES BETWEEN CONCRETE SURFACE AND FIELD SURFACE IMPERFECTIONS ARE NOT REASONABLY NOTICEABLE WHEN VIEWED FROM 10 FEET AWAY UNDER LIGHTING CONDITIONS THAT WILL BE PRESENT AFTER CONSTRUCTION.

D. LIQUID DENSIFIER APPLICATION: APPLY UNDILUTED TO POINT OF REFLECTION, REMOVE EXCESS LIQUID, AND ALLOW TO CURE ACCORDING TO MANUFACTURERS' INSTRUCTIONS.

E. GROUT GRINDING:

1. USE GRINDING EQUIPMENT AND APPROPRIATE GRIIT GRINDING PADS.

2. WHILE APPLYING FRESH GROUT MATERIAL PRIOR TO GRIND CONCRETE IN DIRECTION PERPENDICULAR TO INITIAL GRINDING TO REMOVE SCRATCHES.

3. VACUUM FLOOR USING SQUEEGEE VACUUM ATTACHMENT AFTER EACH PASS.

F. HONING

1. USE GRINDING EQUIPMENT WITH RESIN BONDED GRINDING PADS.

2. GRIND CONCRETE IN ONE DIRECTION STARTING WITH 50 GRIIT PAD AND MAKE AS MANY SEQUENTIAL PASSES REQUIRED TO REMOVE SCRATCHES. EACH PASS PERPENDICULAR TO PREVIOUS PASS, UP TO 400 GRIIT.

3. ACHIEVE MAXIMUM REFINEMENT WITH EACH PASS BEFORE PROCEEDING TO FINER GRIIT PADS.

4. AUTO SCRUB OR VACUUM FLOOR USING SQUEEGEE VACUUM ATTACHMENT AFTER EACH PASS.

5. CONTINUE POLISHING UNTIL GLOSS APPEARANCE, AS MEASURED ACCORDING TO ASTM E 430, MATCHES APPROVED FIELD MOCK-UPS.

H. POLISH GUARD: UNIFORMLY APPLY AND REMOVE EXCESSIVE LIQUID ACCORDING TO MANUFACTURERS' INSTRUCTIONS.

I. FINAL POLISH: USING BURNISHING EQUIPMENT AND FINEST GRIIT BURNISHING PADS, BURNISH TO UNIFORM SHEEN MATCHING APPROVED MOCK-UP.

J. FINAL POLISHED CONCRETE FLOOR FINISH:

1. CLASS A - CREAM FINISH: POLISH PORTLAND CEMENT PASTE RESULTING IN LITTLE OR NO AGGREGATE EXPOSURE.

2. LEVEL 3 - HIGH GLOSS APPEARANCE:

a. PROCEDURE: NOT LESS THAN 6 STEPS WITH FULL REFINEMENT OF EACH DIAMOND PAD UP TO 1500 GRIIT RESIN BONDED PAD WITH ONE APPLICATION OF DENSIFIER.

b. GLOSS: NOT LESS THAN 80 PERCENT ACCORDING TO ASTM E-430 BEFORE POLISH GUARD APPLICATION.

3.6. FIELD QUALITY CONTROL:

A. LAY OUT WALLS IN ADVANCE FOR ACCURATE SPACING OF SURFACE BOND PATTERNS WITH UNIFORM JOINT THICKNESSES AND FOR ACCURATE LOCATION OF OPENINGS. MOVEMENT TIE JOINTS, RETURNS AND OFFSETS. AVOID USING LESS THAN HALF-SIZE UNITS, PARTICULARLY AT CORNERS, JAMBS, AND WHERE POSSIBLE, AT OTHER LOCATIONS.

B. USE FULL-SIZE UNITS WITHOUT CUTTING, IF POSSIBLE. IF CUTTING IS REQUIRED TO PROVIDE CONTINUOUS PATTERN OR TO FIT ADJOINING CONSTRUCTION, CUT UNITS WITH MOTOR-DRIVEN SAWS. PROVIDE CLEAN, SHARP, UNCHIPPED EDGES. ALLOW UNITS TO DRY BEFORE LAYING. UNLESS WETTING OF UNITS IS SPECIFIED, INSTALL CUT UNITS WITH SURFACES AND, WHERE POSSIBLE, CUT EDGES CONCEALED.

C. WHERE PATTERN FOR EXPOSED MASONRY: UNLESS OTHERWISE INDICATED, LAY EXPOSED MASONRY IN RUNNING BOND. DO NOT USE UNITS WITH LESS THAN NOMINAL 4-INCH HORIZONTAL FACE DIMENSIONS AT CORNER OR JAMB.

D. FILL CORES IN HOLLOW CUBES WITH GROUT 24 INCHES UNDER BEAMS, LINTELS, AND SIMILAR ITEMS UNLESS OTHERWISE INDICATED.

3.7. CLOSURE ACTIVITIES:

A. MAINTENANCE TRAINING: CPAA MASTER CRAFTSMAN SHALL TRAIN OWNER'S DESIGNATED PERSONNEL IN PROPER PROCEDURES FOR MAINTAINING POLISHED CONCRETE FLOOR.

A. COVERING: AFTER COMPLETION OF POLISHING, PROTECT POLISHED FLOORS FROM SUBSEQUENT CONSTRUCTION ACTIVITIES WITH PROTECTIVE COVERING.

NOTE: TO BE PERFORMED AFTER BEARING WALLS ARE PLACED. CONTRACTOR TO PROTECT ACCORDINGLY THROUGHOUT CONSTRUCTION. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH SUB-CONTRACTOR, ARCHITECT, AND OWNER TO DISCUSS COORDINATION OF THIS WORK WITH OTHER TRADES.

SECTION 04200 - CONCRETE MASONRY UNIT

PART ONE - GENERAL

1.1. SECTION INCLUDES:

A. CONCRETE MASONRY UNITS (CMUs)

B. MORTAR AND GROUT

C. STEEL REINFORCING BARS

SECTION 04220 - CONCRETE MASONRY UNIT - CONT.

2.7. MASONRY CLEANERS

A. PROPRIETARY BUFFERED ACIDIC CLEANER: MANUFACTURER'S STANDARD STRENGTH CLEANER DESIGNED FOR REMOVING MORTARGROUT STAINS, EFFLORESCENCE, AND OTHER NEW CONSTRUCTION STAINS FROM NEW MASONRY WITHOUT DISCOLORING OR DAMAGING MASONRY SURFACES. USE PRODUCT EXPRESSLY APPROVED FOR INTENDED USE BY MANUFACTURER. CLEANING PRODUCTS AND MANUFACTURER OF MASONRY UNITS BEING CLEANED.

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

a. DIEDRICH TECHNOLOGIES, INC.

b. PROSOOD, INC.

2.8. MORTAR AND GROUT MIXES

A. GENERAL: DO NOT USE ADMIXTURES, INCLUDING PIGMENTS, AIR-ENTRAINING AGENTS, ACCELERATORS, RETARDERS, WATER-REPLENT AGENTS, CALCIUM CHLORIDE, OR OTHER ADMIXTURES UNLESS OTHERWISE INDICATED.

1. DO NOT USE CALCIUM CHLORIDE IN MORTAR OR GROUT.

B. MORTAR FOR UNIT MASONRY: COMPLY WITH ASTM C 270, PROPERTY SPECIFICATION. PROVIDE THE FOLLOWING TYPES OF MORTAR FOR APPLICATIONS STATED UNLESS ANOTHER TYPE IS INDICATED.

1. FOR REINFORCED CONCRETE: USE TYPE S.

2. FOR INTERIOR NON-COLD-BEARING PARTITIONS: AND FOR OTHER APPLICATIONS WHERE ANOTHER TYPE IS NOT INDICATED, USE TYPE N.

C. GROUT FOR UNIT MASONRY: COMPLY WITH ASTM C 476.

1. USE GROUT OF TYPE INDICATED OR, IF NOT OTHERWISE INDICATED, OF TYPE (FINE OR COARSE) THAT WILL COMPLY WITH TABLE 1.15 IN ACI 308.1. USE 476S FOR 2" OR DIMENSIONS OF GROUT SPACES AND FOUR HEIGHT.

2. PROPORTION GROUT IN ACCORDANCE WITH ASTM C 476, TABLE 1 OR PARAGRAPH 4.2.2 FOR SPECIFIED 28-DAY COMPRESSIVE STRENGTH INDICATED, BUT NOT LESS THAN 2



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11. SUMMARY
A. SECTION INCLUDES:
1. VINYL SIDING AND SOFFIT.
2. VINYL ACCESSORIES AND TRIM.
B. RELATED REQUIREMENTS:
1. SECTION 061000 "ROUGH CARPENTRY" FOR WOOD FURRING, GROUNDS, NAILERS, AND BLOCKING.
2. SECTION 072000 "WEATHER BARRIERS" FOR WEATHER RESISTIVE BARRIERS.



DUNCAN CHAPEL
FIRE DISTRICT 2
NEW FACILITY
GREENVILLE, SC

Keyplan

Professional Seal



Issued for Permit
Revision

SPECIFICATIONS

A0.04

In Charge
Drawn By
Checked By
RRE
DMR
SJM

Project Number
Date
1033.00.00
11/18/2014

SECTION 074633 - PLASTIC SIDING

PART ONE - GENERAL

11. SUMMARY
A. SECTION INCLUDES:

- 1. VINYL SIDING AND SOFFIT.
2. VINYL ACCESSORIES AND TRIM.
B. RELATED REQUIREMENTS:

12. COORDINATION
A. COORDINATE SIDING INSTALLATION WITH FLASHINGS AND OTHER ADJOINING CONSTRUCTION TO ENSURE PROPER SEQUENCING.

13. SUBMITTALS
A. PRODUCT DATA: PROVIDE MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:

- 1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
3. INSTALLATION METHODS.
4. FOR VINYL SIDING, INCLUDE VSI'S OFFICIAL CERTIFICATION LOGO PRINTED ON PRODUCT DATA.

B. SAMPLES FOR INITIAL SELECTION: FOR EACH FINISH PRODUCT SPECIFIED, PROVIDE TWO COMPLETE SETS OF COLOR CHIPS REPRESENTING MANUFACTURER'S FULL RANGE OF AVAILABLE COLORS AND PATTERNS.
C. SAMPLES FOR VERIFICATION:

- 1. 12-INCH LONG BY ACTUAL WIDTH SAMPLE OF SIDING.
2. 12-INCH LONG BY ACTUAL WIDTH SAMPLE OF SOFFIT.
3. 12-INCH LONG BY ACTUAL WIDTH SAMPLE OF TRIM AND ACCESSORIES.

D. QUALIFICATION DATA: FOR VINYL SIDING INSTALLER.
E. PRODUCT CERTIFICATES: FOR EACH TYPE OF VINYL SIDING AND SOFFIT.
F. RESEARCH/TESTING REPORTS: FOR EACH TYPE OF VINYL SIDING REQUIRED, FROM ICC-ES.
G. SAMPLE WARRANTY: FOR SPECIAL WARRANTY.

14. CLOSEOUT SUBMITTALS
A. MAINTENANCE DATA: FOR EACH TYPE OF PRODUCT, INCLUDING RELATED ACCESSORIES, TO INCLUDE IN MAINTENANCE MANUALS.

15. MAINTENANCE MATERIAL SUBMITTALS
A. FURNISH EXTRA MATERIALS THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS.

- 1. FURNISH FULL LENGTHS OF VINYL SIDING AND SOFFIT INCLUDING RELATED ACCESSORIES, IN A QUANTITY EQUAL TO 2 PERCENT OF AMOUNT INSTALLED.

16. QUALITY ASSURANCE
A. VINYL SIDING INSTALLER QUALIFICATIONS: INSTALLER HAVING NOT LESS THAN THREE YEARS EXPERIENCE WITH PRODUCTS SPECIFIED.

17. DELIVERY, STORAGE, AND HANDLING
A. DELIVER AND STORE PACKAGED MATERIALS IN UNOPENED ORIGINAL PACKAGING WITH LABELS INTACT UNTIL TIME OF USE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIC STORAGE AND HANDLING REQUIREMENTS.

18. SITE CONDITIONS
A. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S RECOMMENDED LIMITS.

19. WARRANTY
A. PROVIDE MANUFACTURER'S STANDARD LIFE-TIME LIMITED WARRANTY ON SIDING PRODUCTS, TRANSFERABLE TO NEW OWNERS.

PART TWO - PRODUCTS

21. MANUFACTURERS
A. SOURCE LIMITATIONS: OBTAIN PRODUCTS, INCLUDING RELATED ACCESSORIES, FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.

22. MATERIALS
A. PROVIDE VINYL SIDING, SOFFIT, AND COMPONENT MADE OF EXTRUDED POLYVINYL CHLORIDE MANUFACTURED TO COMPLY WITH ASTM D 3679 REQUIREMENTS.
1. PROVIDE ELONGATED NAILING SLOTS ON NAILING FLANGES TO ALLOW MOVEMENT.
2. FACTORY NOTCH ENDS OF HORIZONTAL PANELS TO FORM OVERLAPPING JOINTS.
3. WEATHERING REQUIREMENTS: MEET ASTM D 3679.

23. PERFORMANCE/DESIGN CRITERIA
A. FIRE RESISTANCE: PROVIDE VINYL SIDING PRODUCTS THAT MEET OR EXCEED THE FOLLOWING RATINGS:
1. FLAME SPREAD INDEX: LESS THAN 25, PER ASTM E 84.
2. SMOKE DEVELOPMENT RATING: 1 HOUR, PER ASTM E 84.
3. FIRE ENDURANCE CLASSIFICATION: 1 HOUR, PER ASTM E 119 IN A WALL ASSEMBLY.

B. FIRE RESISTANCE: PROVIDE VINYL SIDING PRODUCTS THAT MEET OR EXCEED THE FOLLOWING RATINGS:
1. FLAME SPREAD INDEX: LESS THAN 20, PER ASTM 84.

24. VINYL SIDING
A. VINYL SIDING: INTEGRAL COLORED PRODUCT COMPLYING WITH ASTM D 3679.
1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE MITTEN NAMED PRODUCT OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
a. ALSIDE.
b. EXTERIOR PORTFOLIO BY CRANE.
c. GENTEK BUILDING PRODUCTS, INC.
d. HEARTLAND BUILDING PRODUCTS: A PROVIA COMPANY.
e. KAYCAN LTD.
f. MASTIC HOME EXTERIORS.
g. CERTAINTED CORPORATION.
h. WOODWORKS BUILDING MATERIALS DISTRIBUTION, INC.
i. RMC SIDING.
j. ROVAL BUILDING PRODUCTS.
k. VARIOFORM, INC.

B. VINYL SIDING CERTIFICATION PROGRAM: PROVIDE PRODUCTS THAT ARE LISTED IN VSI'S LIST OF CERTIFIED PRODUCTS.
C. DESCRIPTION: "DOUBLE 3" DUTCHLAP SIDING.
1. BASIS-OF-DESIGN PRODUCT: MITTEN HIGHLAND.
2. DESIGN: DOUBLE 3" INCH DUTCHLAP.
3. NAIL HEAD: ROLLED OVER SINGLE ROW, WITH ELONGATED NAILING HOLES 1 1/4 INCHES LONG AT 1.58 INCHES ON CENTER.
4. LENGTH: 12 FEET.
5. AVERAGE THICKNESS: 0.042 INCH.
6. PANEL EXPOSURE: 10 INCHES.
7. MAXIMUM WARP (PER 2" PANELS): 0.25 INCH.
8. COLOR: SANDALWOOD.
9. FINISH: LIGHT WOOD GRAIN TEXTURE.

25. VINYL SOFFIT
A. VINYL SOFFIT: INTEGRALLY COLORED PRODUCT COMPLYING WITH ASTM D 4477.
1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE MITTEN NAMED PRODUCT OR COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:
a. ALSIDE.
b. EXTERIOR PORTFOLIO BY CRANE.
c. GENTEK BUILDING PRODUCTS, INC.
d. HEARTLAND BUILDING PRODUCTS: A PROVIA COMPANY.
e. KAYCAN LTD.
f. MASTIC HOME EXTERIORS.
g. CERTAINTED CORPORATION.
h. WOODWORKS BUILDING MATERIALS DISTRIBUTION, INC.
i. RMC SIDING.
j. ROVAL BUILDING PRODUCTS.
k. VARIOFORM, INC.

B. VINYL SIDING CERTIFICATION PROGRAM: PROVIDE PRODUCTS THAT ARE LISTED IN VSI'S LIST OF CERTIFIED PRODUCTS.
C. DESCRIPTION: "TRIPLE 4" SOFFIT - LANCED FULL VENT.
1. DESIGN: TRIPLE 4" SOFFIT.
2. WIDTH: 12 INCHES.
3. LENGTH: 12 FEET.
4. AVERAGE THICKNESS: 0.040 INCH.
5. PANEL EXPOSURE: 12 INCHES.
6. NAILING HEAD: SINGLE ROW, WITH ELONGATED NAILING HOLES 1 1/4 INCHES LONG AT 16 INCHES ON CENTER.
7. VENTILATION: 7.250 INCHES PER SQ. FT.
8. COLOR: FROST.

D. DESCRIPTION: BEADED SOFFIT - TRIPLE 2 BEAD PROFILE - SOLID
1. DESIGN: TRIPLE 2 BEAD.
2. WIDTH: 6 INCHES.
3. LENGTH: 12 FEET & 6 INCHES.
4. AVERAGE THICKNESS: 0.040 INCH.
5. PANEL EXPOSURE: 12 INCHES.
6. NAILING HEAD: SINGLE ROW, WITH ELONGATED NAILING HOLES 1 1/4 INCHES LONG AT 1.58 INCHES ON CENTER.
8. COLOR: WHITE.

26. ACCESSORIES
A. SOFFIT ACCESSORIES:
1. CHANNEL FOR VERTICAL AND GAVE APPLICATIONS:
a. 3/4 INCH.
b. LENGTH: 12 FEET - 6 INCHES.
2. F-CHANNEL:
a. 3/4 INCH.
b. LENGTH: 12 FEET - 6 INCHES.
3. SOFFIT BEAR:
a. 3/4 INCH.
b. LENGTH: 12 FEET - 6 INCHES.
4. SOFFIT COVE TRIM:
a. 1/2 INCH.
b. LENGTH: 12 FEET - 6 INCHES.

B. VINYL ACCESSORIES:
1. CORNER POST:
a. 3" OUTSIDE CORNER POST.
b. LENGTH: 10 FEET.
2. J-CHANNEL:
a. STANDARD WIDTH.
b. LENGTH: 12 FEET.
3. UNDERSILL TRIM:
a. FACE 3/4 INCH.
b. LENGTH: 12 FEET - 6 INCHES.
4. VINYL STARTER STRIP: 2-1/2 INCH.
5. WINDOW AND DOOR CASING: 3-1/2 INCHES.

SECTION 073113 - ASPHALT SHINGLES - CONT.

PART TWO - PRODUCTS

21. GLASS-FIBER REINFORCED ASPHALT SHINGLES
A. ASTM D 3462, LAMINATED, MULTI-PLY OVERLAY CONSTRUCTION, GLASS-FIBER REINFORCED, MINERAL GRANULE SURFACED, AND SELF SEALING.

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING MANUFACTURERS, BUT ARE NOT LIMITED TO THE FOLLOWING:
a. TAMKO ROOFING PRODUCTS, INC. - HERITAGE 30 AP.
b. CERTAINTED CORPORATION/LANDMARK TL SHINGLE.
c. GAF PREMIUM BUILDING PRODUCTS' TIMBERLINE SERIES SHINGLE.
d. OWENS CORNING ROOFING & ASPHALT LLC/ DURATON PREMIUM SHINGLES.
2. BUTT EDGE: STRAIGHT CUT.
3. STRIP SIZE: MANUFACTURER'S STANDARD.
4. ALGAE RESISTANCE: GRANULES TREATED TO RESIST ALGAL DISCOLORATION.
5. COLORS AND BLENDS: B.O.D. COLOR - MAX DEF. COLOR/MAT BY CERTAINTED/LANDMARK PRO.

B. HIP AND RIDGE SHINGLES: MANUFACTURER'S STANDARD UNITS TO MATCH ASPHALT SHINGLES.

22. UNDERLAYMENT MATERIALS
A. FELT: ASTM D 4869, TYPE B, 30# ASPHALT SATURATED ORGANIC FELTS, NONPERFORATED.
B. SELF-ADHERING SHEET UNDERLAYMENT, POLYETHYLENE FACED: ASTM D 1970, MINIMUM OF 40 MIL THICK, SLIP-RESISTING, POLYETHYLENE FILM-REINFORCED TOP SURFACE LAMINATED TO SBS-MODIFIED ASPHALT ADHESIVE, WITH RELEASE PAPER BACKING; COLD APPLIED.

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING, BUT ARE NOT LIMITED TO THE FOLLOWING:
a. CARLSLE COATINGS & WATERPROOFING, INC.
b. GRADE, W. R. & CO.
c. HENRY CORPANY.
d. JOHNS MANVILLE.
e. OWENS CORNING.
f. POLYGLASS PRODUCTS, INC.
g. PROTECTO WRAP COMPANY.

C. GRANULAR SURFACED VALLEY LINING: ASTM D 3909, MINERAL GRANULAR SURFACED, GLASS-FELT BASED, ASPHALT ROLL ROOFING, 36 INCHES WIDE.

23. RIDGE VENTS
A. RIGID RIDGE VENT: MANUFACTURER'S STANDARD, RIGID SECTION HIGH-DENSITY POLYPROPYLENE OR OTHER UV-STABILIZED PLASTIC RIDGE VENT WITH NONWOVEN GEOTEXTILE FILTER STRIPS AND EXTERNAL DEFLECTOR Baffles FOR USE UNDER RIDGE SHINGLES.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING AVAILABLE MANUFACTURERS, BUT ARE NOT LIMITED TO, THE FOLLOWING:
a. AIR VENT, INC. A GIBRALTAR INDUSTRIES COMPANY.
b. COBA VENT, INC.
c. GAF MATERIALS CORPORATION.
d. LOMANCO, INC.
e. MID-AMERICA BUILDING PRODUCTS.
f. OBDYKE, BENJAMIN INCORPORATED.
g. OWENS CORNING.
h. RIGM PRODUCTS, INC.
i. TRIMLINE BUILDING PRODUCTS.

B. SOFFIT VENT: ALUMINUM CONTINUOUS SOFFIT VENT.
1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING AVAILABLE MANUFACTURERS, BUT ARE NOT LIMITED TO, THE FOLLOWING:
a. AIR VENT, INC. MODEL SV201, COLOR TO MATCH EXISTING SOFFIT VENT.

24. ACCESSORIES
A. ASPHALT ROOFING CEMENT: ASTM D 4586, TYPE I ASBESTOS FREE.
B. ROOFING NAILS: ASTM F 1667, ALUMINUM, STAINLESS STEEL, COPPER, OR HOT-DIP GALVANIZED STEEL WIRE SHINGLE NAILS, MINIMUM 0.120-INCH DIAMETER, SMOOTH SHANK, SHARP-POINTED, WITH A MINIMUM 3/8-INCH DIAMETER FLAT HEAD AND OF SUFFICIENT LENGTH TO PENETRATE 3/4 INCH INTO SOLID WOOD DECKING OR EXTEND AT LEAST 1/8 INCH THROUGH OSB OR PLYWOOD SHEATHING.
1. WHERE NAILS ARE IN CONTACT WITH METAL FLASHING, USE NAILS MADE FROM A6E METAL AS FLASHING.
C. FELT UNDERLAYMENT NAILS: ALUMINUM, STAINLESS STEEL, OR HOT-DIP GALVANIZED STEEL WIRE WITH LOW-PROFILE CAPPED HEADS OR DISC CAPS, 1-INCH MINIMUM DIAMETER.
25. METAL FLASHING AND TRIM
A. GENERAL: COMPLY WITH REQUIREMENTS IN DIVISION 07 "SHEET METAL FLASHING AND TRIM."

PART THREE - EXECUTION
31. EXAMINATION
A. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
1. EXAMINE ROOF SHEATHING TO VERIFY THAT SHEATHING JOINTS ARE SUPPORTED BY FRAMING AND BLOCKING OR METAL CLIPS AND THAT INSTALLATION IS WITHIN FLATNESS TOLERANCES.
2. VERIFY THAT SUBSTRATE IS SOUND, DRY, SMOOTH, CLEAN, SLOPED FOR DRAINAGE, AND COMPLETELY ANCHORED AND THAT PROVISION HAS BEEN MADE FOR FLASHINGS AND PENETRATIONS THROUGH ASPHALT SHINGLES.
3. PREPARE WRITTEN REPORT, ENDORSED BY INSTALLER, LISTING CONDITIONS DETRIMENTAL TO PERFORMANCE OF THE WORK.
C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

32. UNDERLAYMENT INSTALLATION
A. GENERAL: COMPLY WITH UNDERLAYMENT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED UNLESS MORE STRINGENT REQUIREMENTS APPLY.
B. SINGLE LAYER FELT UNDERLAYMENT: INSTALL ON ROOF DECK IN ACCORDANCE WITH SHINGLE MANUFACTURERS RECOMMENDATIONS.
C. SELF-ADHERING SHEET UNDERLAYMENT: INSTALL, WRINKLE FREE, ON ROOF DECK. COMPLY WITH LOW TEMPERATURE INSTALLATION RESTRICTIONS OF UNDERLAYMENT MANUFACTURER IF APPLICABLE. INSTALL AT LOCATIONS INDICATED BELOW AND ON DRAWINGS, LAPPED IN DIRECTION TO SHED WATER. LAP SIDES NOT LESS THAN 3-1/2 INCHES. LAP ENDS NOT LESS THAN 4 INCHES STAGGERED 72 INCHES BETWEEN COURSES. ROLL LAPS WITH ROLLER. COVER UNDERLAYMENT WITHIN SEVEN DAYS.
1. EAVES: EXTEND FROM EDGES OF EAVES 36 INCHES BEYOND INTERIOR FACE OF EXTERIOR WALL.
2. RAKES: EXTEND FROM EDGES OF RAKE 36 INCHES BEYOND INTERIOR FACE OF EXTERIOR WALL.
3. VALLEYS: EXTEND FROM LOWEST TO HIGHEST POINT 18 INCHES ON EACH SIDE.
4. HIPS: EXTEND 18 INCHES ON EACH SIDE.
5. RIDGES: EXTEND 36 INCHES ON EACH SIDE WITHOUT OBSTRUCTING CONTINUOUS RIDGE VENT SLOT.
6. SIDEWALLS: EXTEND BEYOND SIDEWALL 18 INCHES RETURN VERTICALLY AGAINST SIDEWALL NOT LETHAN 3 INCHES.
7. CHIMNEYS AND OTHER ROOF-PENETRATING ELEMENTS: EXTEND BEYOND PENETRATING ELEMENT 18 INCHES AND RETURN VERTICALLY AGAINST PENETRATING ELEMENT NOT LESS THAN 4 INCHES.
8. ROOF SLOPE TRANSITIONS: EXTEND 18 INCHES ON EACH ROOF SLOPE.
D. CLOSE CUT VALLEY LINING: COMPLY WITH NRCAS RECOMMENDATIONS. INSTALL A 36-INCH WIDE FELT UNDERLAYMENT CENTRED IN VALLEY. FASTEN TO ROOF DECK WITH FELT UNDERLAYMENT NAILS.
1. LAP ROOF DECK FELT UNDERLAYMENT OVER VALLEY FELT UNDERLAYMENT AT LEAST 6 INCHES.
2. INSTALL A 36-INCH WIDE STRIP OF GRANULAR SURFACED VALLEY LINING CENTRED IN VALLEY WITH GRANULAR SURFACE FACE UP. LAP ENDS OF STRIPS AT LEAST 12 INCHES IN DIRECTION TO SHED WATER, AND SEAL WITH ASPHALT ROOFING CEMENT. FASTEN TO ROOF DECK WITH ROOFING NAILS.
3. INSTALL IN ACCORDANCE WITH SHINGLE MANUFACTURER'S RECOMMENDATIONS.
E. METAL FLASHING: OPEN VALLEY UNDERLAYMENT. INSTALL TWO LAYERS OF 36-INCH WIDE FELT UNDERLAYMENT CENTRED IN VALLEY. STAGGER END LAPS BETWEEN LAYERS AT LEAST 12 INCHES. LAP ENDS OF EACH LAYER AT LEAST 12 INCHES IN DIRECTION TO SHED WATER, AND SEAL WITH ASPHALT ROOFING CEMENT. FASTEN EACH LAYER TO ROOF DECK WITH ROOFING NAILS.
1. LAP ROOF DECK FELT UNDERLAYMENT OVER FIRST LAYER OF VALLEY FELT UNDERLAYMENT AT LEAST 6 INCHES.
2. INSTALL IN ACCORDANCE WITH SHINGLE MANUFACTURER'S RECOMMENDATIONS.

33. METAL FLASHING INSTALLATION
A. GENERAL: INSTALL METAL FLASHINGS AND OTHER SHEET METAL TO COMPLY WITH REQUIREMENTS IN DIVISION 07 SECTION "SHEET METAL FLASHING AND TRIM."

34. ASPHALT SHINGLE INSTALLATION
A. GENERAL: INSTALL ASPHALT SHINGLES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, RECOMMENDATIONS IN NRCAS' RESIDENTIAL ASPHALT ROOFING MANUAL, AND ASPHALT SHINGLE RECOMMENDATIONS IN NRCAS' THE NRCA ROOFING AND WATERPROOFING MANUAL.
B. INSTALL STARTER STRIP ALONG LOWEST ROOF EDGE, CONSISTING OF AN ASPHALT SHINGLE STRIP WITH TABS REMOVED AT LEAST 1/2 INCHES WIDE WITH SELF-SEALING STRIP FACE UP AT ROOF EDGE.
1. EXTEND ASPHALT SHINGLES 12 INCH OVER FASCIA AT EAVES AND RAKES.
2. INSTALL STARTER STRIP ALONG RAKE EDGE.
C. INSTALL FIRST AND REMAINING COURSES OF ASPHALT SHINGLES STAR-STEPPING DIAGONALLY ACROSS ROOF DECK WITH MANUFACTURER'S RECOMMENDED OFFSET PATTERN AT SUCCEEDING COURSES, MAINTAINING UNIFORM EXPOSURE.
D. INSTALL ASPHALT SHINGLES BY SINGLE STRIP COLLUM, MAINTAINING UNIFORM EXPOSURE. INSTALL FULL LENGTH FIRST COURSE, FOLLOWED BY CUT SECOND COURSE, REPEATING ALTERNATING PATTERN IN SUCCEEDING COURSES. MAINTAIN CONSISTENT STRAIGHT ROWS OVER ENTIRE ROOF SURFACE.
E. FASTEN ASPHALT SHINGLE STRIPS WITH ROOFING NAILS LOCATED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
F. CLOSED-CUT VALLEYS: EXTEND ASPHALT SHINGLE STRIPS FROM ONE SIDE OF VALLEY 12 INCHES BEYOND CENTER OF VALLEY. USE ONE PIECE SHINGLE STRIP WITHOUT JOINTS IN VALLEY. FASTEN WITH EXTRA NAIL IN UPPER END OF SHINGLE. INSTALL ASPHALT SHINGLE COURSES FROM OTHER SIDE OF VALLEY AND CUT BACK TO A STRAIGHT LINE 2 INCHES SHORT OF VALLEY CENTERLINE. TRIM UPPER CONCEALED CORNERS OF CUT BACK SHINGLE STRIPS.
1. DO NOT NAIL ASPHALT SHINGLES WITHIN 6 INCHES OF VALLEY CENTER.
2. SET TRIMMED, CONCEALED-CORNER ASPHALT SHINGLES IN A 3-INCH WIDE BED OF ASPHALT ROOFING CEMENT.
G. OPEN VALLEYS: CUT AND FIT ASPHALT SHINGLES AT OPEN VALLEYS, TRIMMING UPPER CONCEALED CORNERS OF SHINGLE STRIPS. WIDEN EXPOSED PORTION OF OPEN VALLEY 18 INCH IN 12 INCHES (1/6) FROM HIGHEST TO LOWEST POINT.
1. SET VALLEY EDGE OF ASPHALT SHINGLES IN A 3-INCH WIDE BED OF ASPHALT ROOFING CEMENT.
2. DO NOT NAIL ASPHALT SHINGLES TO METAL OPEN-VALLEY FLASHINGS.
H. RIDGE VENTS: INSTALL CONTINUOUS RIDGE VENTS OVER ASPHALT SHINGLES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. FASTEN WITH ROOFING NAILS OF SUFFICIENT LENGTH TO PENETRATE SHEATHING.
1. RIDGE CAP SHINGLES: MAINTAIN SAME EXPOSURE OF CAP SHINGLES AS ROOFING SHINGLE EXPOSURE. LAP CAP SHINGLES AT RIDGES TO SHED WATER AWAY FROM DIRECTION OF PREVAILING WINDS. FASTEN WITH ROOFING NAILS OF SUFFICIENT LENGTH TO PENETRATE SHEATHING.
1. FASTEN RIDGE AND HIP CAP ASPHALT SHINGLES TO COVER RIDGE VENT WITHOUT OBSTRUCTING AIRFLOW.

SECTION 072000 - WEATHER BARRIERS

PART ONE - GENERAL

11. SUMMARY
A. SECTION INCLUDES:

- 1. BUILDING PAPER.
2. BUILDING WRAP.
3. FLEXIBLE FLASHING.

12. SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

1. FOR BUILDING WRAP: INCLUDE DATA ON AIR AND WATER-VAPOR PERMEANCE BASE ON TESTING ACCORDING TO REFERENCED STANDARDS.

B. EVALUATION REPORTS: FOR WATER-RESISTIVE BARRIER AND FLEXIBLE FLASHING, FROM ICC-ES.

PART TWO - PRODUCTS

21. MATERIALS, GENERAL
A. SOURCE LIMITATIONS: OBTAIN PRIMARY AIR-BARRIER MATERIALS AND AIR-BARRIER ACCESSORIES FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.

22. WATER-RESISTIVE BARRIER
A. BUILDING PAPER: ASTM D 226, TYPE 1 (NO. 30 ASPHALT-SATURATED ORGANIC FELT), UNPERFORATED.
B. BUILDING PAPER: WATER-VAPOR PERMEABLE, ASPHALT-SATURATED KRAFT BUILDING PAPER.
1. WATER VAPOR TRANSMISSION NOT LESS THAN 35 GSD, M X 24 HR PER ASTM D779.
2. WATER RESISTANCE NOT LESS THAN 20 MINUTES PER ASTM F 1249.

C. BUILDING WRAP: ASTM E 1677, TYPE 1 AIR BARRIER WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF LESS THAN 24 AND 450, RESPECTIVELY, WHEN TESTED ACCORDING TO ASTM E 84 - IV STABILIZED AND ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
1. WATER VAPOR PERMEANCE: NOT LESS THAN 500G THROUGH 1 SQ. M OF SURFACE IN 24 HOURS PER ASTM E 96 E NM DESCANTANT METHOD (PROCEDURE A).
2. AIR PERMEANCE: NOT MORE THAN 0.04 CFM/50. FT. AT 0.3-INCH WG WHEN TESTED ACCORDING TO ASTM E 2178.
3. ALLOWABLE IV EXPOSURE TIME: NOT LESS THAN THREE MONTHS.

D. BUILDING WRAP TAPE: PRESSURE-SENSITIVE PLASTIC TAPE RECOMMENDED BY BUILDING-WRAP MANUFACTURER FOR SEALING JOINTS AND PENETRATIONS IN BUILDING WRAP.

23. MISCELLANEOUS MATERIALS
A. FLEXIBLE FLASHING: COMPOSITE, SELF-ADHESIVE, FLASHING PRODUCT CONSISTING OF A PLIABLE, BUTYL RUBBER OR RUBBERIZED-ASPHALT COMPOUND, BONDED TO A HIGH-DENSITY POLYETHYLENE FILM, ALUMINUM FOIL, OR SPUNBONDED POLYOLEFIN TO PRODUCE AN OVERALL THICKNESS OF NOT LESS THAN 0.025 INCH.
1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
a. DUPONT: DUPONT FLASHING TAPE.
b. GRACE CONSTRUCTION PRODUCTS' VYCOR BUTYL SELF-ADHERED FLASHING.
c. HAVEN INDUSTRIES, INC.: FORTRESS FLASHING.
d. CARLSLE COATINGS & WATERPROOFING: CWN-705-TWF THRU-WALL FLASHING.

B. PRIMER FOR FLEXIBLE FLASHING: PRODUCT RECOMMENDED BY MANUFACTURER OF FLEXIBLE FLASHING FOR SUBSTRATE.

C. MECHANICAL FASTENERS:
1. NAILS AND STAPLES: ASTM F 1667.
2. PLASTIC WASHERS OR CORROSION RESISTANT METAL WASHERS.

PART THREE - EXECUTION
31. WATER-RESISTIVE BARRIER INSTALLATION
A. COVER EXPOSED EXTERIOR SURFACE OF SHEATHING WITH WATER-RESISTIVE BARRIER SECURELY FASTENED TO FRAMING IMMEDIATELY AFTER SHEATHING IS INSTALLED.
B. COVER SHEATHING WITH WATER-RESISTIVE BARRIER AS FOLLOWS:
1. CUT BACK BARRIER 1/2 INCH ON EACH SIDE OF THE BREAK IN SUPPORTING MEMBERS AT EXPANSION OR CONTROL JOINT LOCATIONS.
2. APPLY BARRIER TO COVER VERTICAL FLASHING WITH A MINIMUM 4-INCH OVERLAP UNLESS OTHERWISE INDICATED.

C. BUILDING PAPER: APPLY HORIZONTALLY WITH A 2-INCH OVERLAP AND A 6-INCH END LAP; FASTEN TO SHEATHING WITH GALVANIZED STAPLES OR ROOFING NAILS.
D. BUILDING WRAP: COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. SEAL SEAMS, EDGES, FASTENERS, AND PENETRATIONS WITH TAPE.
2. EXTEND INTO JAMBS OF OPENINGS AND SEAL CORNERS WITH TAPE.

32. FLEXIBLE FLASHING INSTALLATION
A. APPLY FLEXIBLE FLASHING WHERE INDICATED TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. PRIME SUBSTRATES AS RECOMMENDED BY FLASHING MANUFACTURER.
2. LAP SEAMS AND JUNCTURES WITH OTHER MATERIALS AT LEAST 1 INCHES EXCEPT THAT AT FLASHING FLANGES OF OTHER CONSTRUCTION, LAPS NEED NOT EXCEED FLASHING WIDTH.
3. LAP FLASHING OVER WATER-RESISTIVE BARRIER AT BOTTOM AND SIDES OF OPENINGS.
4. LAP WATER-RESISTIVE BARRIER OVER FLASHING AT HEADS OF OPENINGS.
5. AFTER FLASHING HAS BEEN APPLIED, ROLL SURFACES WITH A HARD RUBBER OR METAL ROLLER TO ENSURE THAT FLASHING IS COMPLETELY ADHERED TO SUBSTRATES.

SECTION 072100 - THERMAL INSULATION

PART ONE - GENERAL

11. SECTION INCLUDES
A. FOAM PLASTIC BOARD INSULATION.
B. GLASS-FIBER BLANKET INSULATION.

12. SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

B. PRODUCT TEST REPORTS.
C. RESEARCH/EVALUATION REPORTS.

13. QUALITY ASSURANCE
A. SURFACE-BURNING CHARACTERISTICS: AS DETERMINED BY TESTING IDENTICAL PRODUCTS ACCORDING TO ASTM E 84 BY A QUALIFIED TESTING AGENCY. IDENTIFY PRODUCTS WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AGENCY.

PART TWO - PRODUCTS

21. FOAM PLASTIC BOARD INSULATION
A. EXTRUDED POLYSTYRENE BOARD INSULATION: ASTM C 578, WITH MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 75 AND 50, RESPECTIVELY, PER ASTM E 84.

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
a. DIVERSIFAM PRODUCTS.
b. DOW CHEMICAL COMPANY (THE).
c. OWENS CORNING.
d. PACTIV BUILDING PRODUCTS.
2. UNDER SLAB ON GRADE: TYPE 1, 60 PSI.

22. GLASS FIBER BLANKET INSULATION
A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. CERTAINTED CORPORATION.
2. GUARDIAN BUILDING PRODUCTS, INC.
3. JOHNS MANVILLE.
4. KNUFU INSULATION.
5. OWENS CORNING.

B. UNFACED GLASS-FIBER BLANKET INSULATION: ASTM C 665, TYPE I (BLANKETS WITHOUT MEMBRANE FACING); CONSISTING OF FIBERS WITH MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 50, RESPECTIVELY, PER ASTM E 136 FOR COMBUSTION CHARACTERISTICS.

PART THREE - EXECUTION
31. INSTALLATION, GENERAL
A. COMPLY WITH INSULATION MANUFACTURER'S WRITTEN INSTRUCTIONS APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED.
B. INSTALL INSULATION THAT IS UNDAMAGED, DRY, AND UNSOILED AND THAT HAS NOT BEEN LEFT EXPOSED TO ICE, RAIN, OR SNOW AT ANY TIME.
C. EXTEND INSULATION TO ENVELOP ENTIRE AREA TO BE INSULATED. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS WITH INSULATION. REMOVE PROJECTIONS THAT INTERFERE WITH PLACEMENT.
D. PROVIDE SIZES TO FIT APPLICATIONS INDICATED AND SELECTED FROM MANUFACTURER'S STANDARD THICKNESSES. WIDTHS AND LENGTHS APPLY SINGLE LAYER OF INSULATION UNITS TO PRODUCE THICKNESS INDICATED UNLESS MULTIPLE LAYERS ARE OTHERWISE SHOWN OR REQUIRED TO MAKE UP TOTAL THICKNESS.

32. INSTALLATION OF INSULATION FOR FRAMED CONSTRUCTION
A. GLASS FIBER BLANKET INSULATION: INSTALL IN CAVITIES FORMED BY FRAMING MEMBERS ACCORDING TO THE FOLLOWING REQUIREMENTS:
1. USE INSULATION WIDTHS AND LENGTHS THAT FILL THE CAVITIES FORMED BY FRAMING MEMBERS, IF MORE THAN ONE LENGTH IS REQUIRED TO FILL THE CAVITIES, PROVIDE LENGTHS THAT WILL PRODUCE A SNUG-FIT BETWEEN ENDS.
2. PLACE INSULATION IN CAVITIES FORMED BY FRAMING MEMBERS TO PRODUCE A FRICTION-FIT BETWEEN EDGES OF INSULATION AND ADJOINING FRAMING MEMBERS.
B. MISCELLANEOUS VOIDS: INSTALL INSULATION IN MISCELLANEOUS VOIDS AND CAVITY SPACES WHERE REQUIRED TO PREVENT GAPS IN INSULATION USING THE FOLLOWING MATERIALS:
1. FILL VOIDS IN THE PERIMETER OF THE BUILDING SHELL, WHETHER OR NOT INDICATED ON THE DRAWINGS. THIS INCLUDES SPACE BEHIND BEAM, CHANNELS, CHIMNEYS, CML, AND MISCELLANEOUS FRAMING.

33. INSULATION SCHEDULE
A. INSULATION TYPE: UNFACED, GLASS FIBER BLANKET INSULATION.
1. USE: EXTERIOR WOOD STUD WALLS.
a. PROVIDE R-13 AT ALL EXTERIOR 2X4 STUD CAVITIES.
b. PROVIDE R-19 AT ALL EXTERIOR 2X6 STUD CAVITIES.
2. USE: ATTIC.
a. PROVIDE R-30 AT ALL ATTIC SPACES.

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY - CONT.

22. WOOD-PRESERVATIVE-TREATED MATERIALS
A. PRESERVATIVE TREATMENT BY PRESSURE PROCESS: AWWA U1, USE CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND; USE CATEGORY UC3 FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, AND USE CATEGORY UC4A FOR ITEMS IN CONTACT WITH THE GROUND.

1. PRESERVATIVE CHEMICALS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND CONTAINING NO ARSENIC OR CHROMIUM.
B. KILN-DRY LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT. DO NOT USE MATERIAL THAT IS WARPED OR DOES NOT COMPLY WITH REQUIREMENTS FOR UNTREATED MATERIAL.

C. MARK LUMBER WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY THE ALSJC BOARD OF REVIEW.
D. APPLICATION: TREAT ITEMS INDICATED ON DRAWINGS, AND THE FOLLOWING:
1. WOOD NAILERS, CURBS, BLOCKING, AND SIMILAR MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
2. WOOD SILLS, BLOCKING, AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
3. WOOD FLOOR PLATES THAT ARE INSTALLED OVER CONCRETE SLABS ON-GRADE.

23. FIRE-RETARDANT-TREATED MATERIALS
A. FIRE-RETARDANT-TREATED LUMBER AND PLYWOOD BY PRESSURE PROCESS: PRODUCTS WITH A FLAME SPREAD INDEX OF 25 OR LESS WHEN TESTED ACCORDING TO ASTM E 84, AND WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN THE TEST IS EXTENDED AN ADDITIONAL 20 MINUTES, AND WITH THE FLAME FRONT NOT EXTENDING MORE THAN 10.5 FEET BEYOND THE CENTERLINE OF THE BURNERS 1 ANY TIME DURING THE TEST.
1. EXTERIOR TYPE: TREATED MATERIALS SHALL COMPLY WITH REQUIREMENTS SPECIFIED ABOVE FOR FIRE-RETARDANT-TREATED LUMBER AND PLYWOOD BY PRESSURE PROCESS AFTER BEING SUBJECTED TO ACCELERATED WEATHERING ACCORDING TO ASTM D 2898. USE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
2. INTERIOR TYPE A: TREATED MATERIALS SHALL HAVE A MOISTURE CONTENT OF 28 PERCENT OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM D 3201 AT 92 PERCENT RELATIVE HUMIDITY, USE WHERE EXTERIOR TYPE IS NOT INDICATED.

B. KILN-DRY LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
C. IDENTIFY FIRE-RETARDANT-TREATED WOOD WITH APPROPRIATE CLASSIFICATION MARKING OF TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
D. APPLICATION: TREAT ITEMS INDICATED ON DRAWINGS, AND THE FOLLOWING:
1. PLYWOOD BACKING PANELS.

24. PLYWOOD BACKING PANELS
A. EQUIPMENT BACKING PANELS: DOC PS 1, EXPOSURE 1, C-D PLUGGED, FIRE-RETARDANT TREATED, IN THICKNESS INDICATED OR, IF NOT INDICATED, NOT LESS THAN 1/2-INCH NOMINAL THICKNESS.
25. FASTENERS
A. GENERAL: PROVIDE FASTENERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIC IN THIS ARTICLE FOR MATERIAL AND MANUFACTURE.
1. WHERE CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESSURE-PRESERVATIVE TREATED OR IN AN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153A 153M.
B. POWER-DRIVEN FASTENERS: NES NER-272.
26. MISCELLANEOUS MATERIALS
A. FLEXIBLE FLASHING: SELF-ADHESIVE BUTYL RUBBER OR RUBBERIZED ASPHALT COMPOUND, BONDED TO A HIGH-DENSITY POLYETHYLENE FILM, ALUMINUM FOIL, OR SPUNBONDED POLYOLEFIN TO PRODUCE AN OVERALL THICKNESS OF NOT LESS THAN 0.025 INCH.

PART THREE - EXECUTION
31. INSTALLATION, GENERAL
A. SET CARPENTRY TO CURVED LEVELS AND LINES, WITH MEMBERS PLUMB



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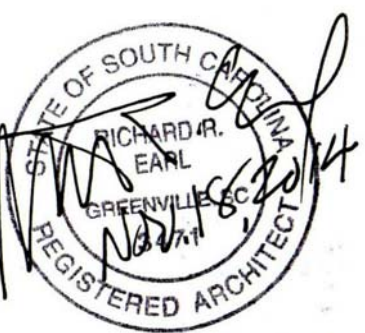
Consultant



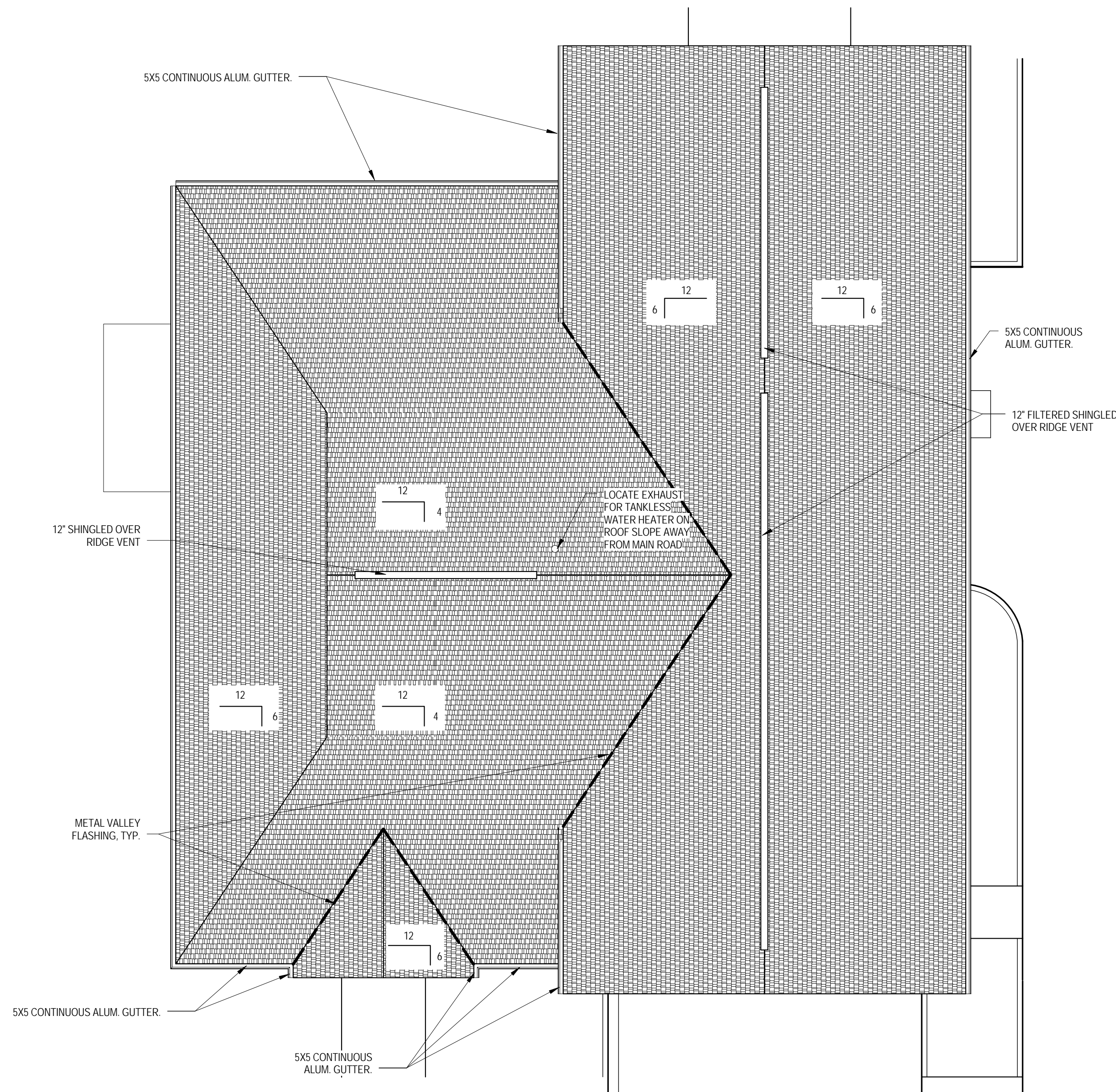
DUNCAN CHAPEL
FIRE DISTRICT
STATION 2
NEW FACILITY
GREENVILLE, S.C.

Keyplan

Professional Seal

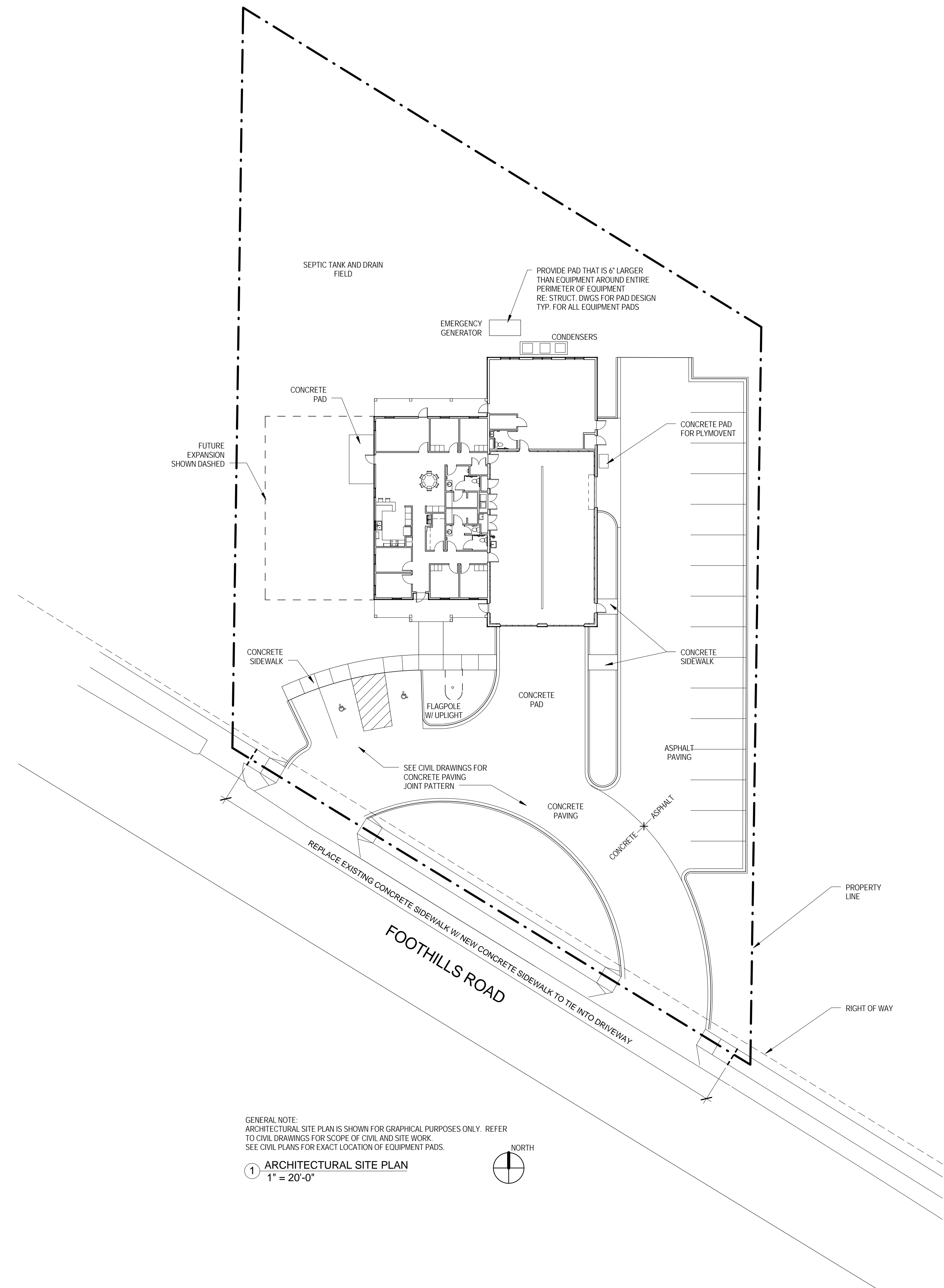


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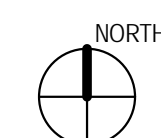
NOTE:
REINFORCE HIPS AND VALLEYS WITH SECOND
LAYER OF ROOF UNDERLAYMENT

2 ROOF PLAN
1/8" = 1'-0"



GENERAL NOTE:
ARCHITECTURAL SITE PLAN IS SHOWN FOR GRAPHICAL PURPOSES ONLY. REFER
TO CIVIL DRAWINGS FOR SCOPE OF CIVIL AND SITE WORK.
SEE CIVIL PLANS FOR EXACT LOCATION OF EQUIPMENT PADS.

1 ARCHITECTURAL SITE PLAN
1" = 20'-0"



ARCHITECTURAL SITE
PLAN

A1.00

In Charge RRE
Drawn By SJM
Checked By RRE
Project Number 1033.00.00
Date 11/18/2014



**DUNCAN CHAPEL
FIRE DISTRICT
DISTRICT 2**
NEW FACILITY
GREENVILLE, SC

Keyplan

Professional Seal



Issued for Permit
Revision

FIRST FLOOR PLAN

A1.01
In Charge
Drawn By
Checked By
Project Number
Date

RRE
SJM
RRE
1033.00
11/18/2014

**NEW CONSTRUCTION PLAN
GENERAL NOTES**

- FURNITURE IS SHOWN FOR GRAPHIC PURPOSES ONLY. THEY ARE (NIC) NOT IN CONTRACT.
- ALL PARTITIONS ARE 2X4 WOOD STUD WALLS UNLESS NOTED OTHERWISE.
- ALL SURROUNDING PARTITIONS OF TOILET ROOMS ARE TO RECEIVE SOUND BATT INSULATION. FULL DEPTH OF PARTITION.
- SEE SHEET A2.01 FOR ACCESSORY MOUNTING HEIGHTS.
- ADDITION OF F.E.C. AND OTHER WALL MOUNTED OR RECESSED ACCESSORIES SHALL NOT COMPROMISE THE DESIGNATED WALL RATINGS AS SHOWN.
- PROVIDE COAT HOOKS TO THE ROOM SIDE OF DOORS AT ALL OFFICES, AND TOILETS.
- GC TO PROVIDE WOOD BLOCKING AS REQUIRED BEHIND ALL TOILET ACCESSORIES, MILLWORK, F.E.C. AND ALL OTHER ACCESSORIES.
- PROVIDE GYP BOARD CONTROL JOINTS AS REQUIRED BY MANUFACTURER RECOMMENDATIONS. VERIFY JOINT LOCATIONS WITH ARCHITECT PRIOR TO CONSTRUCTION.
- PROVIDE 3/4" PLYWOOD (PAINTED WITH FIRE RESISTANT PAINT) FROM ABOVE FLOOR BASE TO CEILING IN "T" ROOMS FOR MOUNTING OF VOICEDATA EQUIPMENT. PAINT TO MATCH WALL COLOR. COORDINATE LOCATION WITH OWNER.
- DIMENSION FROM FACE OF WALL STUD UNLESS NOTED OTHERWISE.

INTERIOR FINISHES

- WALLS: ALL WALLS TO BE PAINTED SHERWIN WILLIAMS PM 200 VOC SEMI-GLOSS COLOR AS SELECTED BY OWNER U.N.O. ALLOW FOR (S) COLORS AT APPARATUS BAY. PROVIDE ELASTOMER EPOXY COATING OVER CMU AND TURN DOWN AT BASE 2" ONTO FINISHED CONCRETE FLOOR.
- CEILING: ALL CEILINGS TO BE PAINTED SHERWIN WILLIAMS PM 200 VOC FLAT COLOR SW7007 CEILING BRIGHT WHITE U.N.O.
- FLOORS: ALL FLOORS TO BE POLISHED CONCRETE PER SPECIFICATION SECTION 03350. TRIT COLOR TO BE SELECTED BY OWNER. TRUCK BAY STRIPING SHALL BE INTEGRAL WITH FLOORING FINISH.
- BASE: ALL EXPOSED GWB WALLS TO RECEIVE BASE. BASE TO BE 1X6 PAINT GRADE MILLWORK BASE MOLDING. AMERICAN HERITAGE WPSM12. TO BE PAINTED WHITE HIGH-GLOSS.
- DOOR/WINDOW TRIM: TO BE PAINTED WHITE HIGH-GLOSS. SEE DETAILS FOR CONSTRUCTION.
- CHAIR RAIL: TO BE PAINT GRADE MILLWORK MOLDING WOODGRAIN MILLWORK WP300. TO BE PAINTED WHITE HIGH-GLOSS.

PAINT: BASIS OF DESIGN PAINT IS SHERWIN WILLIAMS PROMAR 200 VOC. PROVIDE SPECIFIED PAINT OR EQUAL. ALL PAINTED SURFACES TO HAVE PRIME COAT TO MATCH FINISH COLOR. ALL SURFACES TO RECEIVE A MINIMUM OF ONE PRIME COAT AND TWO FINISH COATS.

MILLWORK: CABINETS: SOLID WOOD, MAPLE WITH CLEAR NATURAL FINISH. COUNTERTOPS: CORIAN SOLID SURFACE, GRANOLA.

SHOWER TILE: FIELD WALL TILE: 2X6 BITTENHOUSE SQUARE MATTE BISQUIT BY DALTELE. ACCENT WALL TILE: 2X6 BITTENHOUSE SQUARE MATTE ARCHITECTURAL GRAY BY DALTELE.

FLOOR TILE: 2X2 UNGLAZED COLORBODY PORCELAIN MOSAICS WILLOW A91 BY AMERICAN CLEAN.

GROUT: PROVIDE EPOXY TYPE GROUT SUCH AS SPECTRALOCK BY LAITCRETE OR EQUIVALENT. COLOR TO MATCH THE FIELD TILE.

FINISH VERTICAL EDGES OF SHOWER WALL TILE WITH STAINLESS STEEL RONDEC EDGE PROTECTION BY SCHLUTER SYSTEMS OR EQUAL. FINISH EDGE OF FLOOR TILE TO CONCRETE FLOOR WITH STAINLESS STEEL DECO FLOOR PROFILE BY SCHLUTER SYSTEMS OR EQUAL.

SHOWER WALL AND FLOOR TILE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND TO COMPLY WITH TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION". USE APPROPRIATE SUBSTRATE FOR WALL TILE AND PROVIDE WATERPROOFING MEMBRANE PER TCA RECOMMENDATIONS.

APPLIANCE SCHEDULE

- A01: JGS605EF STAINLESS STEEL GAS STOVE BY GE OR EQUAL.
- A02: GSJ22GD 22CU FT. STAINLESS STEEL REFRIGERATOR BY GE OR EQUAL.
- A03: GUT0800S STAINLESS STEEL DISHWASHER BY GE OR EQUAL.
- A04: UD01A0A 208-230V 1320 NEO SERIES UNDERCOUNTER HALF DICE ICE MACHINE BY MAHOUTWOOD OR EQUAL.
- A05: GFWR886FMC 4.8 CU. FT. CAPACITY RIGHT HEIGHT DESIGN FRONT LOAD WASHER BY GE OR EQUAL. METALLIC CARBON FINISH.
- A06: GFD886FMC 3 CU. FT. CAPACITY RIGHT HEIGHT DESIGN FRONT LOAD GAS DRYER WITH STEAM.
- A07: PLW125 30" STAINLESS STEEL RANGE HOOD BY PROLINE OR EQUAL.

TOILET PARTITIONS

TOILET PARTITIONS TO BE FLOOR MOUNTED OVERHEAD BRACED PHENOLIC CORE BY ACCURATE PARTITIONS CORPORATION OR EQUAL.

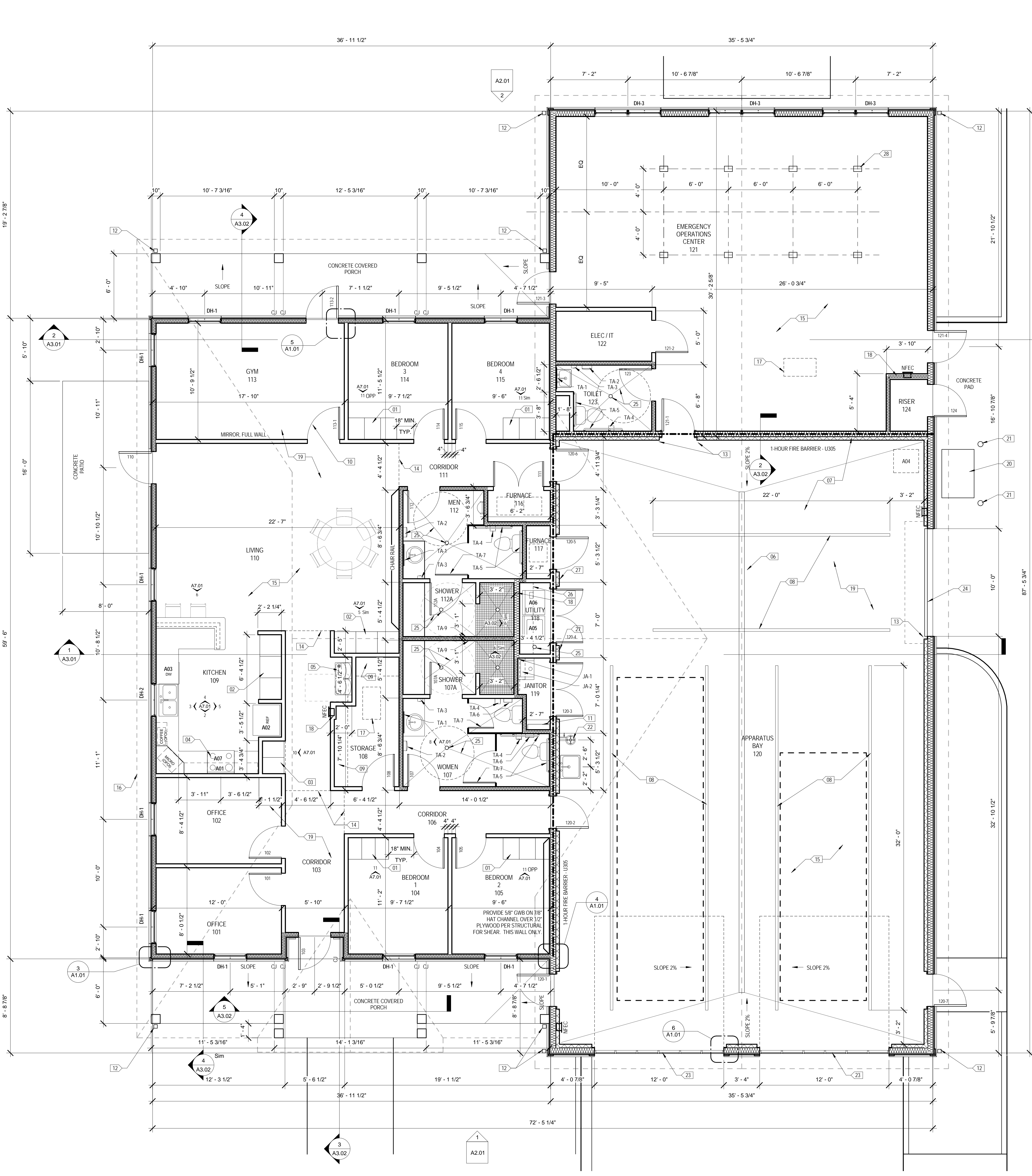
- DOOR, PANEL AND PLAGSTER CONSTRUCTION: SOLID PHENOLIC CORE PANEL MATERIAL WITH MELAMINE FACING ON BOTH SIDES. RISES TO SUBSTRATE DURING PANEL MANUFACTURE. PROVIDE MINIMUM 3/4" HIGH THICK DOORS AND PLASTERS AND MINIMUM 3/4" INCH THICK PANELS.
- BRACKETS: FULL HEIGHT CONTINUOUS TYPE, STAINLESS STEEL. PHENOLIC PANEL FINISH AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE. WITH MANUFACTURER'S STANDARD THROUGH-COLOR CORE MATCHING FACE SHEET.
- HARDWARE AND ACCESSORIES: MANUFACTURER'S HEAVY-DUTY STAINLESS STEEL OPERATING HARDWARE AND ACCESSORIES.
- MATERIAL: STAINLESS STEEL.
 - a. HINGES: MANUFACTURER'S STANDARD PAIRED, SELF-CLOSING TYPE THAT CAN BE ADJUSTED TO HOLD OPEN DOORS AT ANY ANGLE.
 - b. LATCH AND KEYS: MANUFACTURER'S STANDARD SURFACE MOUNTED LATCH UNIT DESIGNED FOR EMERGENCY ACCESS AND WITH COMBINATION RUBBER FACED DOOR STRIKE AND KEYS.
 - c. COAT HOOK, DOOR BUMPER, DOOR ROLL: MANUFACTURER'S STANDARD TO MEET ACCESSIBILITY REQUIREMENTS.
 - d. PLASTER SHOE: 3 INCHES HIGH FABRICATED OF STAINLESS STEEL OVERHEAD BRACING: MANUFACTURER'S STANDARD CONTINUOUS, HEAVY-DUTY EXTRUDED ALUMINUM HEAD RAIL WITH ANTIGRIP PROFILE, FASTENED TO PLASTER AND SECURED TO ADJACENT CONSTRUCTION WITH STAINLESS STEEL HEAD RAIL BRACKETS.
 - e. ANCHORAGES AND FASTENERS: MANUFACTURER'S STANDARD EXPOSED STAINLESS STEEL FASTENERS, WITH TAMPER RESISTANT HEX LOPE SECURITY DESIGN.
- FLOOR MOUNTED, OVERHEAD-BRACED TOILET COMPARTMENTS: PROVIDE MANUFACTURER'S STANDARD CORROSION-RESISTANT SUPPORTS, LEVELING MECHANISM, AND ANCHORS AT PLASTERS TO SUIT FLOOR CONDITIONS. PROVIDE SHOES AT PLASTERS TO CONCEAL SUPPORTS AND LEVELING MECHANISM.
- SHOP DRAWINGS: INCLUDE ROOM LAYOUTS, DIMENSIONS, MATERIALS, PANEL CONSTRUCTION, ELEVATIONS, FINISHES, HARDWARE, ACCESSORIES, AND ATTACHMENT DETAILS.

TOILET ACCESSORY LEGEND

TA-1	24" X 36" S.S. CHANNEL FRAME MIRROR	B.O.D. BOBRICK B-165 2436
TA-2	SURFACE MOUNTED S.S. PAPER TOWEL DISPENSER	B.O.D. BOBRICK B-2620
TA-3	SURFACE MOUNTED SOAP DISPENSER	B.O.D. BOBRICK B-9050
TA-4	SURFACE MOUNTED S.S. MULTI-ROLL TOILET TISSUE DISPENSER	B.O.D. BOBRICK B-288
TA-5	SURFACE MOUNTED S.S. GRAB BARS - 18", 36", 42"	B.O.D. BOBRICK B-5806
TA-6	SURFACE MOUNTED S.S. SANITARY NAPKIN DISPOSAL	B.O.D. BOBRICK B-254
TA-7	CLOTHES HOOK	B.O.D. BOBRICK B-212
TA-8	NOT USED	
TA-9	TOWEL BAR	B.O.D. BOBRICK B-530 X 24
JA-1	MOP & BROOM HOLDER	B.O.D. BOBRICK B-223 X 36
JA-2	UTILITY SHELF	B.O.D. BOBRICK B-298 X 24

KEYNOTES - FLOOR PLAN

- 15" WIDE X 24" DEEP X 80" HIGH LOCKERS WITH SOLID WOOD CABINETS AND DOOR LOCKS. PROVIDE DETAILING TO MATCH KITCHEN CABINETS.
- TWO-TIER 24" WIDE X 24" DEEP X 80" HIGH WOOD FOOD PANTRY LOCKERS WITH SOLID WOOD CABINETS AND DOOR LOCKS. PROVIDE DETAILING TO MATCH KITCHEN CABINETS.
- 15" WIDE X 24" DEEP X 84" HIGH CABINET W/ TWO DOORS, RADIO TO BE LOCATED IN UPPER PORTION.
- PROVIDE STAINLESS STEEL RESIDENTIAL HOOD SYSTEM (VENTILATION / FIRE SUPPRESSION HOOD - GUARDIAN) ABOVE RANGE.
- BLUE LEVEL ELECTRIC WATER COOLER.
- TRENCH DRAIN.
- GWB ON CEILING AND ABOVE CMU TO BE 5/8" MOISTURE RESISTANT AND ABUSE RESISTANT.
- 4" WIDE TRUCK ALIGNMENT STRIPING. RED COLOR INTEGRAL WITH POLISHED CONCRETE FINISHING.
- 15" DEEP WHITE MELAMINE ADJ. SHELVES ON HEAVY DUTY STANDARDS AND BRACKETS.
- 3" O" X 7" O" INSULATED DOOR, TYPICAL.
- WATER DISTRIBUTION LOCATION.
- 4X3 ALUM. DOWNSPOUT: TIE INTO UNDERGROUND STORM WATER SYSTEM W/ CAST IRON DOWNSPOUT BOOT BY A.W.F. SMITH MFG. CO. OR EQUAL.
- BULLNOSE BLOCK. TYP. AT ALL OPENINGS / OUTSIDE CORNERS. BLOCK TO BUT OPENING TRIM. PROVIDE SEALANT FULL HEIGHT OF BLOCK.
- DASHED LINE DENOTES 1" CHANGE IN CEILING PLANE.
- 5/8" DRYWALL CEILING ABOVE W/ SMOOTH PAINT FINISH. ALL CEILINGS, INCLUDING APPARATUS BAY.
- ROOF PROFILE ABOVE SHOWN HALFTONE.
- ATTIC ACCESS ABOVE SHOWN DASHED. COORDINATE LOCATION WITH TRUSS LAYOUT. A4220 CEILING ALUMINUM ATTIC LADDER BY WERNER OR EQUAL.
- 2X6 WOOD STUD WALL.
- PROVIDE STAINED / POLISHED CONCRETE FINISH AT ALL FLOORING, INCLUDING APPARATUS BAY.
- PROPOSED CONCRETE PAD FOR PLYMOUNT. ISOLATE PAD FROM CONCRETE PAVING. PROVIDE PAD SIZE TO EXTEND APPROX 6" ENTIRE PERIMETER BEYOND EQUIPMENT.
- 42" HIGH 4" O CONCRETE FILLED STEEL PIPE BOLLARD PAINTED TO MATCH SIDING.
- EYE WASH STATION.
- 12" O" X 12" O" HEAVY DUTY ALUMINUM FULL VIEW GLASS PARTIALLY DOORS. MODEL C420 BY HANS W/ OPERATOR 120V, 1/2 HP. CTR BY HANABUS OPERA.
- 10" X 8" X 10" COMMERCIAL INSULATED ROLLING STEEL DOOR. SERIES 625 BY OVERHEAD DOOR. PAINT TO MATCH SIDING COLOR.
- SLOPE FLOOR TO FLOOR DRAIN.
- 15" DEEP WHITE MELAMINE SHELVES ON HEAVY DUTY STANDARDS AND BRACKETS.
- COORDINATE LOCATION OF OPENING TO PROVIDE FULL WIDTH NOMINAL 16" BLOCK.
- RECESSED POWER FLOOR BOX. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. SEE ELECTRICAL FOR FLOOR BOX SPECIFICATION.



1 FIRST FLOOR PLAN
1/4" = 1'-0"

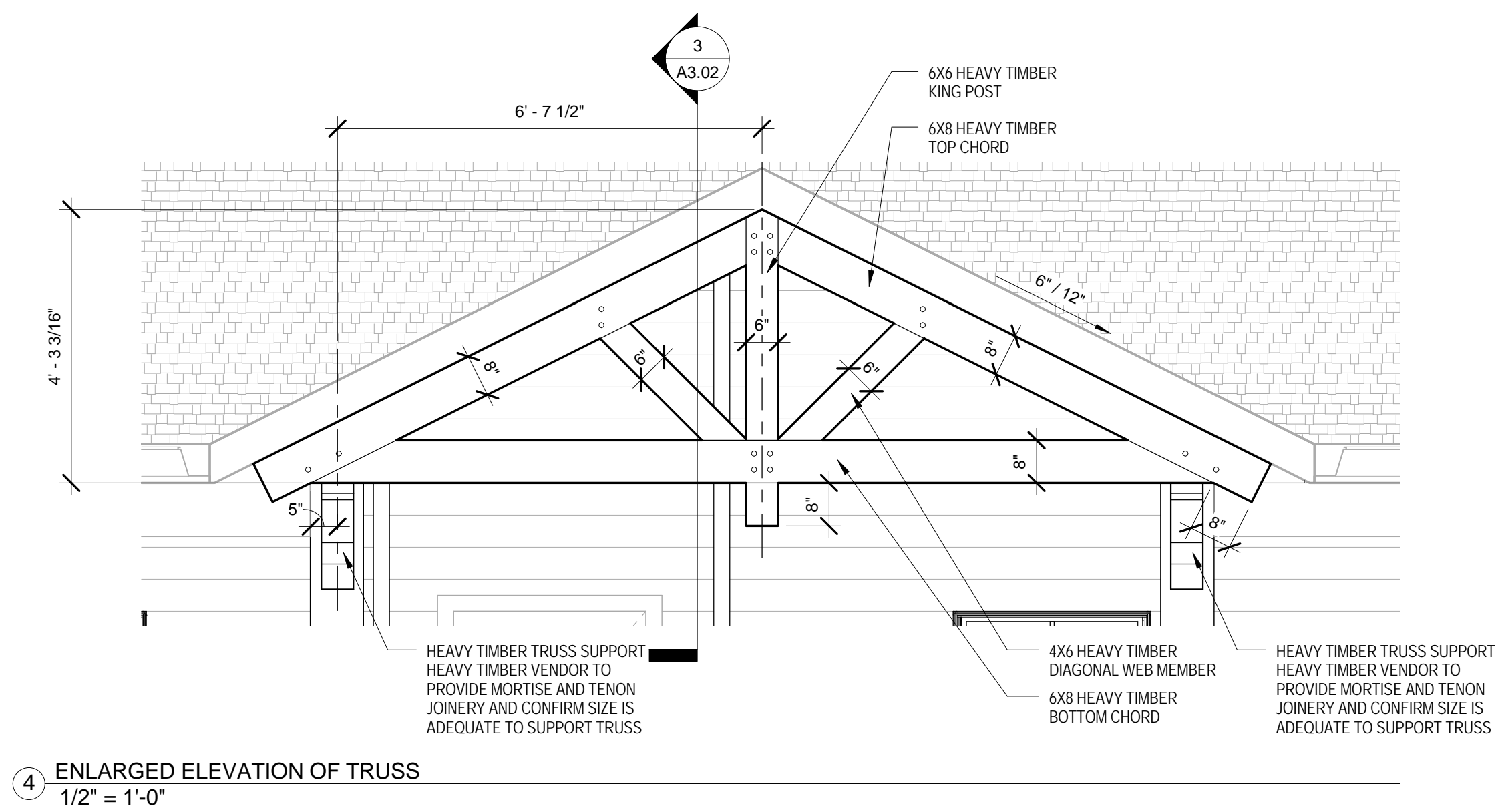


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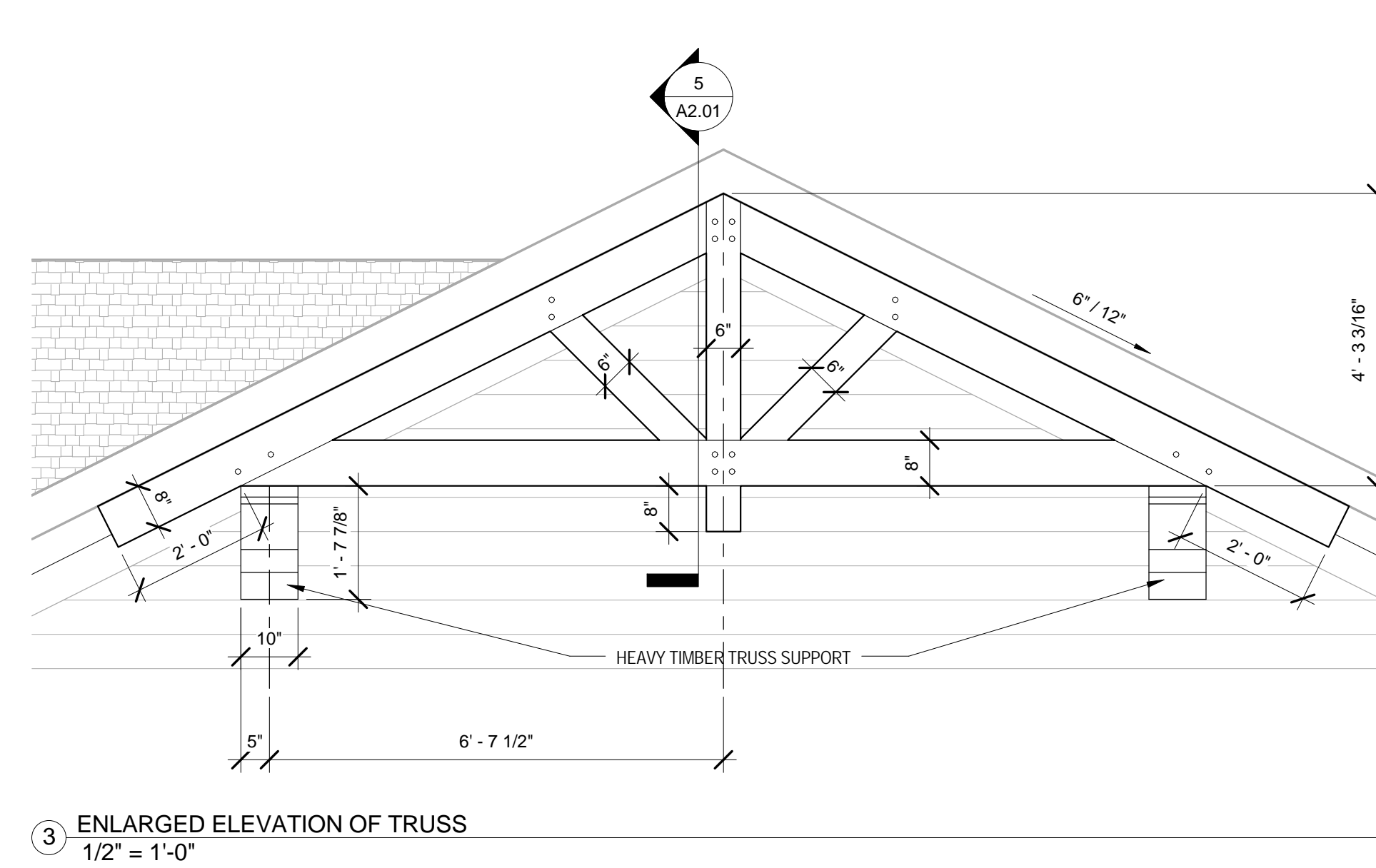
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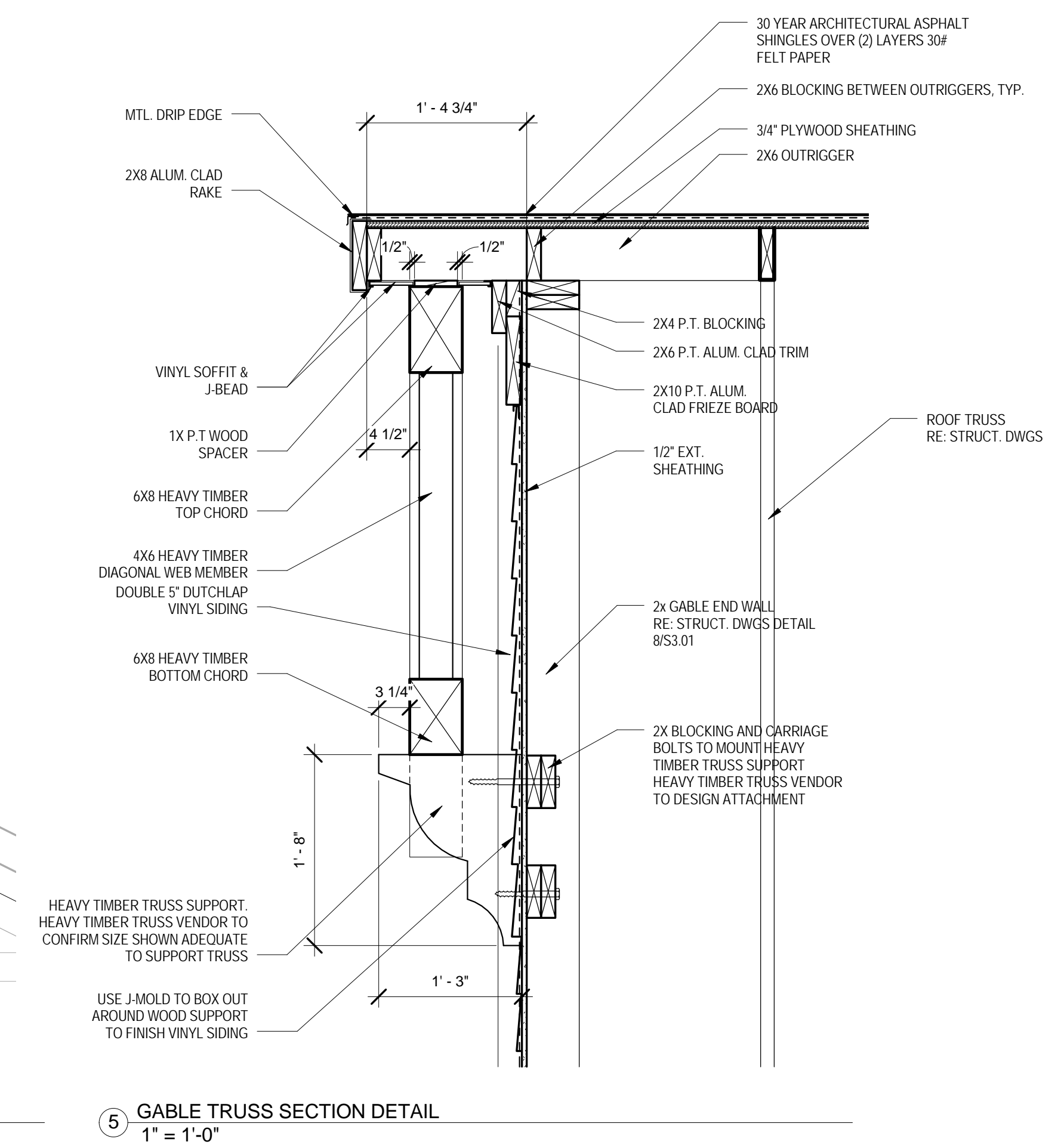
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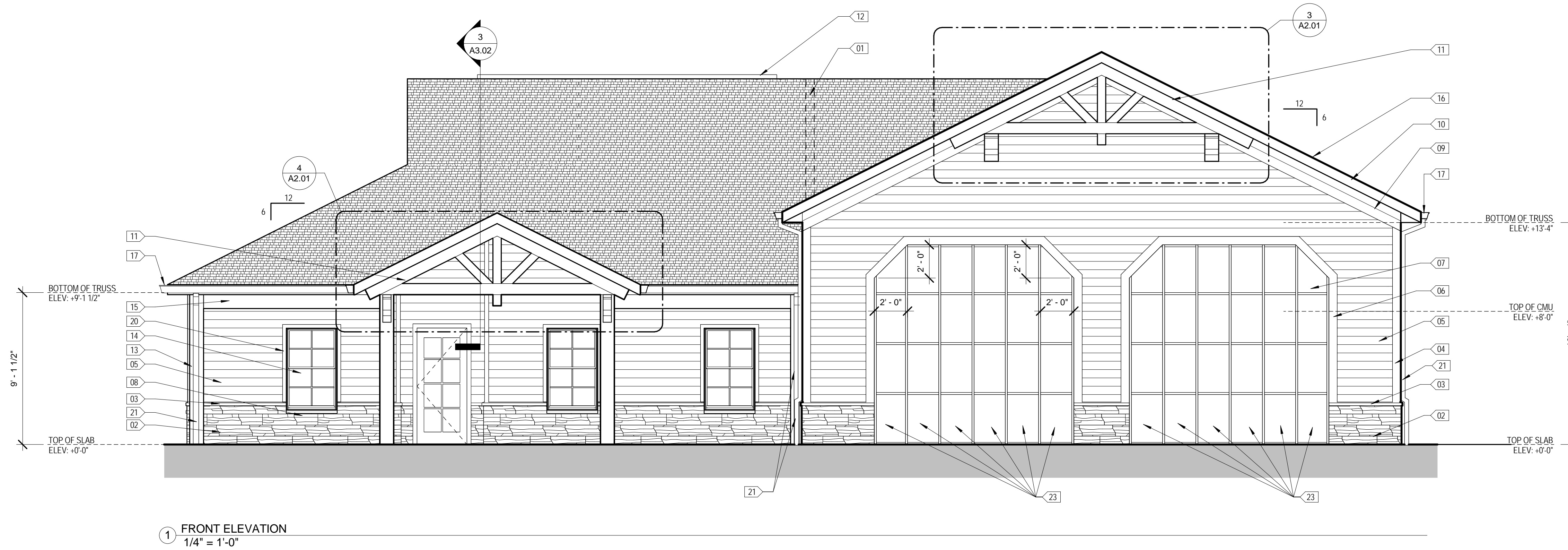
4 ENLARGED ELEVATION OF TRUSS
1/2" = 1'-0"



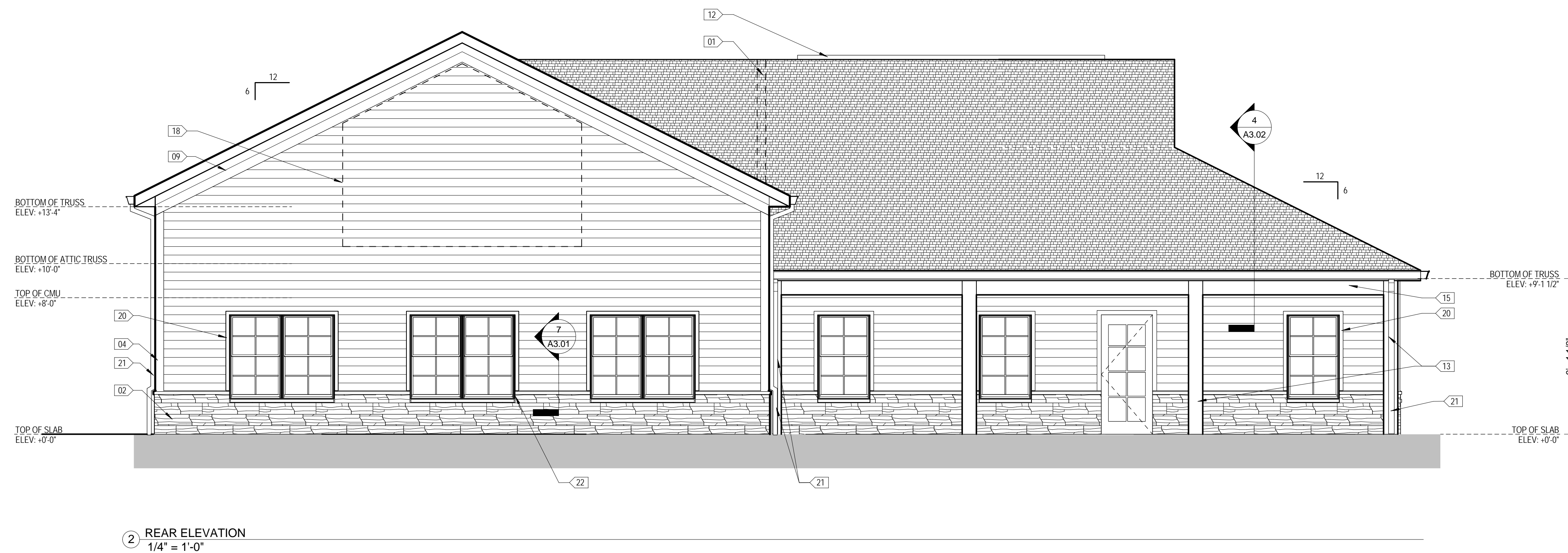
3 ENLARGED ELEVATION OF TRUSS
1/2" = 1'-0"



5 GABLE TRUSS SECTION DETAIL
1" = 1'-0"



1 FRONT ELEVATION
1/4" = 1'-0"



2 REAR ELEVATION
1/4" = 1'-0"

KEY NOTES - ELEVATIONS

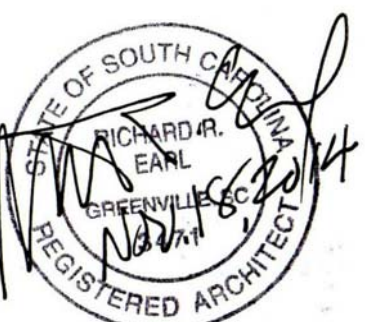
- 01 ONE HOUR FIRE BARRIER TO UNDERSIDE OF ROOF DECK, SHOWN DASHED.
- 02 NATURAL THIN STONE VENEER, DRY STACK.
- 03 CAST STONE WATERTABLE.
- 04 VINYL CORNER WRAP TRIM.
- 05 DOUBLE 5" DUTCHLAP VINYL SIDING.
- 06 PROVIDE VINYL / ALUM WRAPPED WOOD TRIM AS SHOWN.
- 07 12'-0" X 12'-0" AUTOMATIC OVERHEAD DOOR, ALUMINUM FRAME W/ LOW E GLAZING.
- 08 CAST STONE SILL.
- 09 ALUM CLAD FASCIA TRIM - SEE SECTION FOR MORE DETAIL.
- 10 ALUMINUM EDGE METAL AND FASCIA.
- 11 HEAVY TIMBER DOUGLAS FIR TRUSS, 4X8 TOP AND BOTTOM CHORDS W/ 4X6 WEB MEMBERS ON HAUNCH AS SHOWN, MORTISE AND TENON JOINERY. PROVIDE STAIN FINISH TO MATCH MINNAX ENGLISH CHUHNUT 233, WITH CABOT CLEAR WOOD PROTECTOR.
- 12 12" SHINGLED OVER RIDGE VENT.
- 13 10X10 HEAVY TIMBER DOUGLAS FIR POST, STAIN AND CLEAR FINISH COAT TO MATCH TRUSS.
- 14 ALUMINUM CLAD FRAME WINDOW W/ LOW E GLAZING W/ GRIDS.
- 15 6X10 HEAVY TIMBER DOUGLAS FIR BEAM, STAIN AND CLEAR FINISH COAT TO MATCH TRUSS.
- 16 30 YEAR ARCHITECTURAL FIBERGLASS SHINGLES.
- 17 5X5 CONTINUOUS ALUM GUTTER.
- 18 ATTIC PROFILE BEYOND, SHOWN DASHED. PROVIDE ROOM / ATTIC TRUSSES TO MAXIMIZE SPACE.
- 19 2X6 ALUM CLAD FRIEZE BOARD.
- 20 3 1/2" VINYL WINDOW CASING.
- 21 4X3 ALUM DOWNSPOUT, TIE INTO UNDERGROUND STORMWATER SYSTEM W/ CAST IRON DOWNSPOUT BOOT BY JAY R. SMITH MFG. CO. OR EQUAL.
- 22 RETURN STONE BACK TO WINDOW JAMB BELOW CAST STONE WATERTABLE, TYPICAL AT ALL SIMILAR CONDITIONS. SEE DETAIL, SHEET A3.01.
- 23 PROVIDE INSULATED (R-9 MIN) METAL PANEL INFILL AT BASE OF DOOR.



DUNCAN CHAPEL
FIRE DISTRICT
STATION 2
NEW FACILITY
GREENVILLE, SC

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EXTERIOR ELEVATIONS

A2.01

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Drawn By SJM
Checked By DMR

Project Number 1033.00.00
Date 11/18/2014



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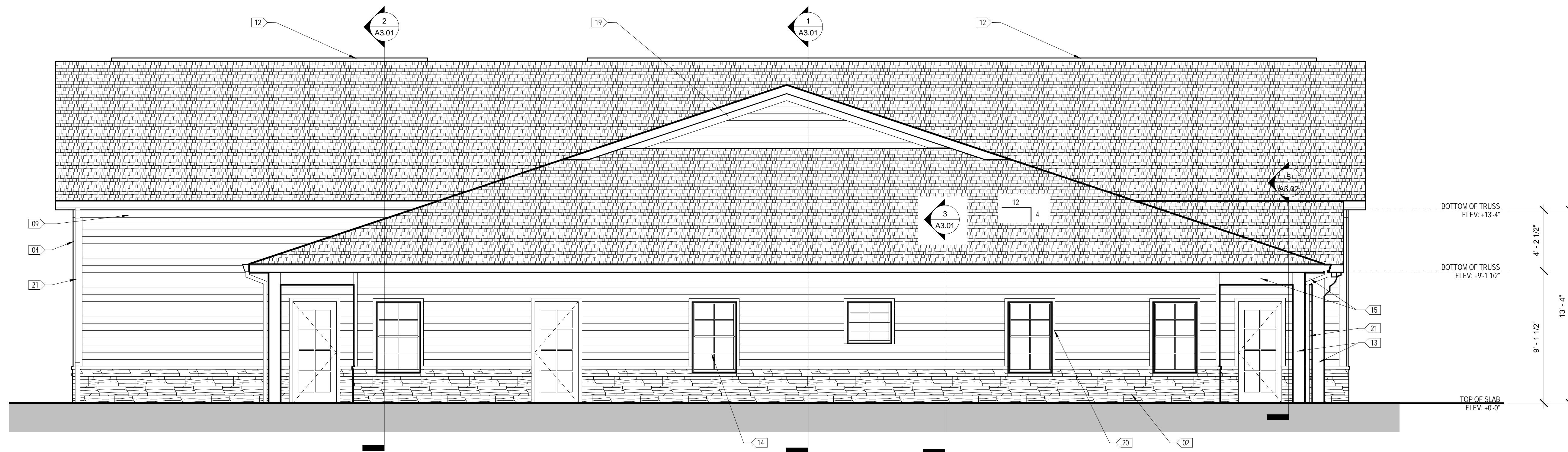
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DUNCAN CHAPEL
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NEW FACILITY
GREENVILLE, SC

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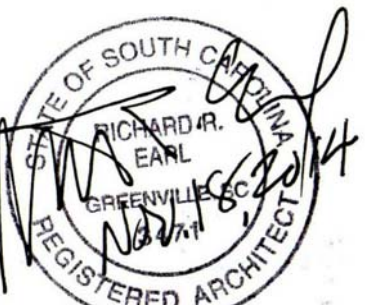


1 LEFT SIDE ELEVATION
1/4" = 1'-0"

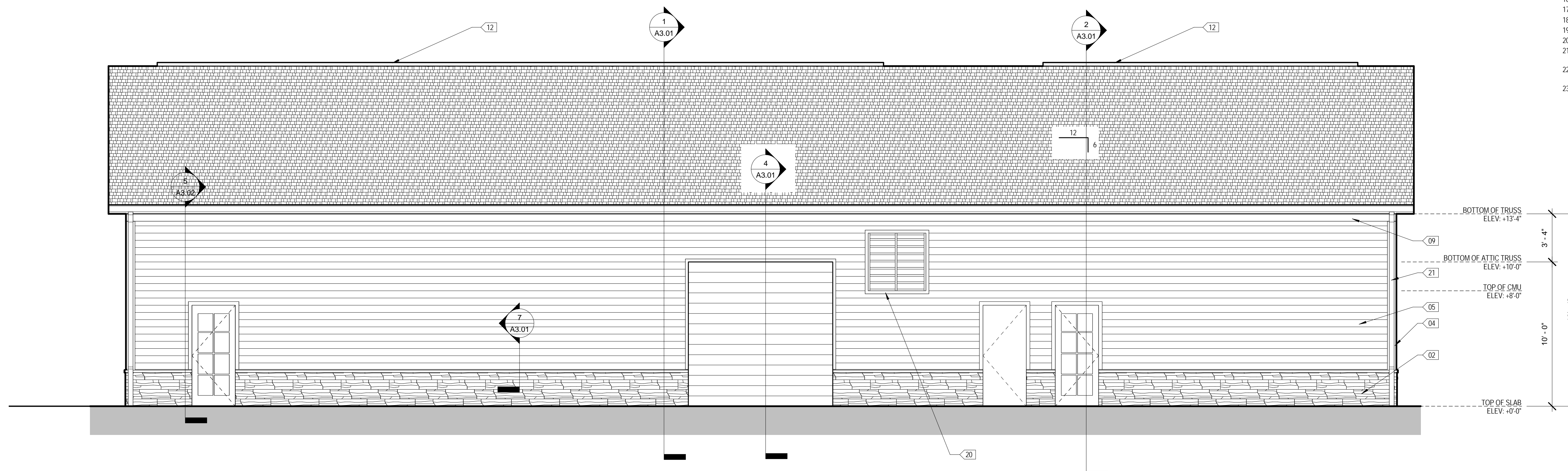
KEY NOTES - ELEVATIONS

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- 23 PROVIDE INSULATED (R-9 MIN) METAL PANEL INFILL AT BASE OF DOOR.

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2 RIGHT SIDE ELEVATION
1/4" = 1'-0"

EXTERIOR ELEVATIONS

A2.02

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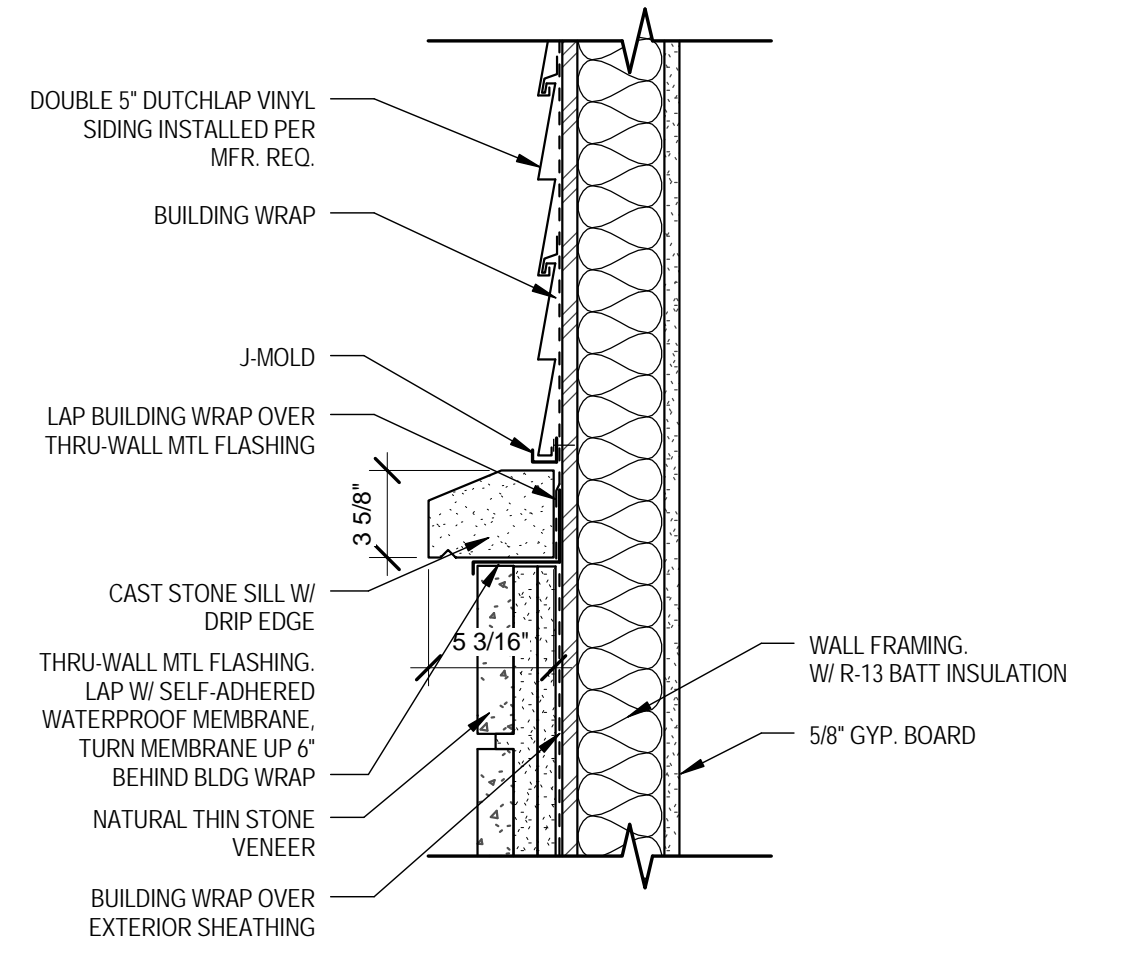
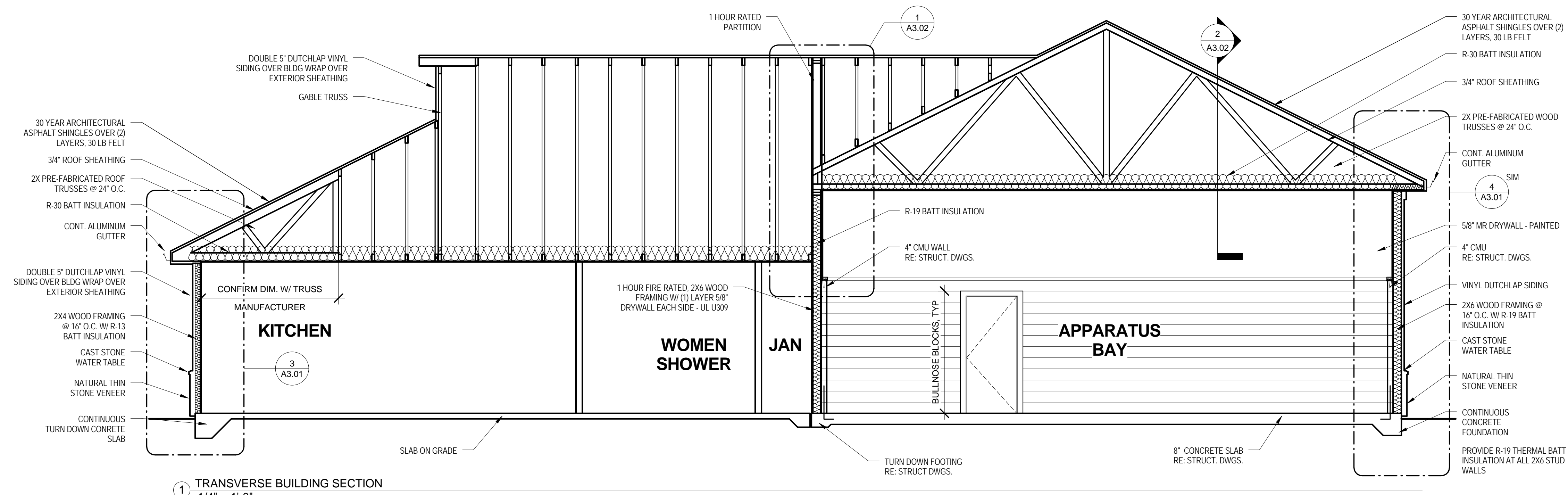


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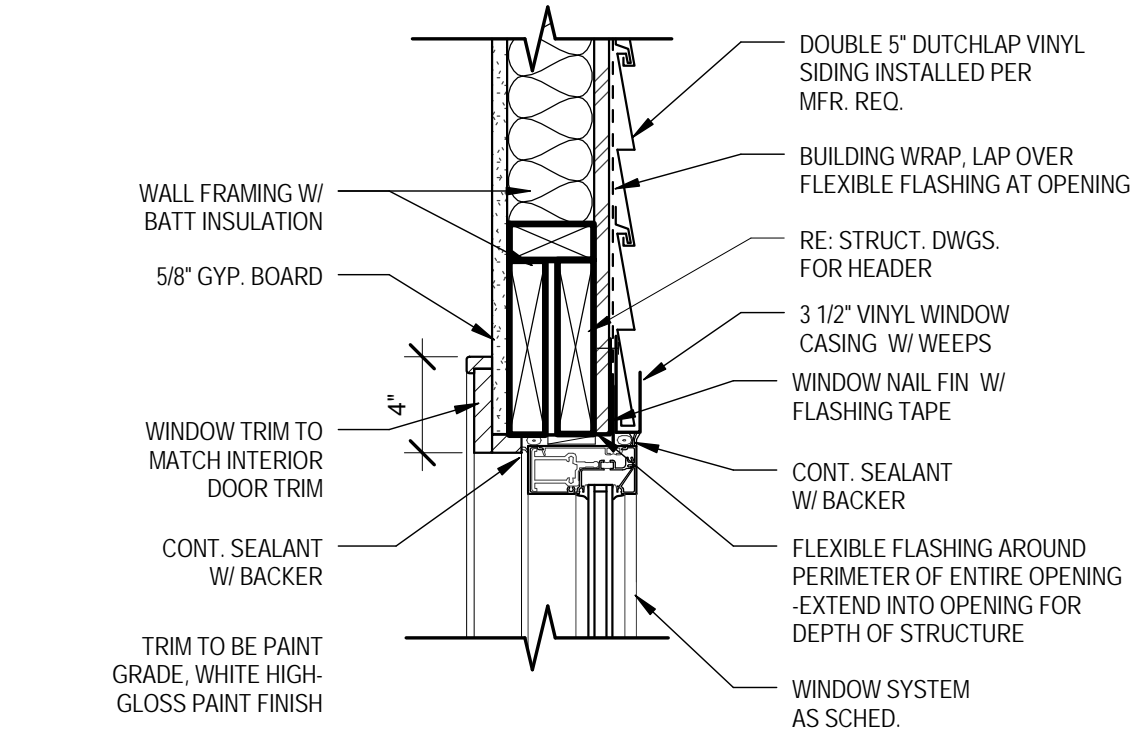
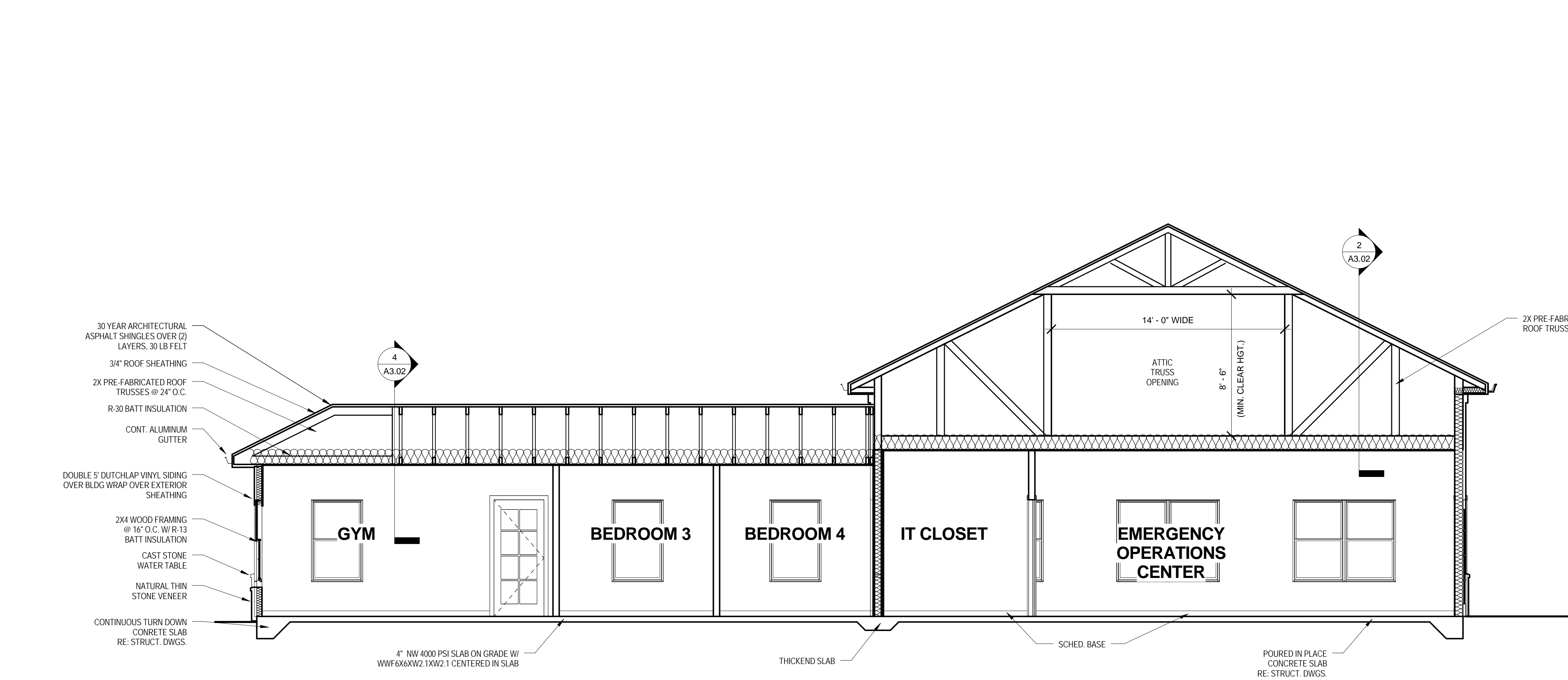
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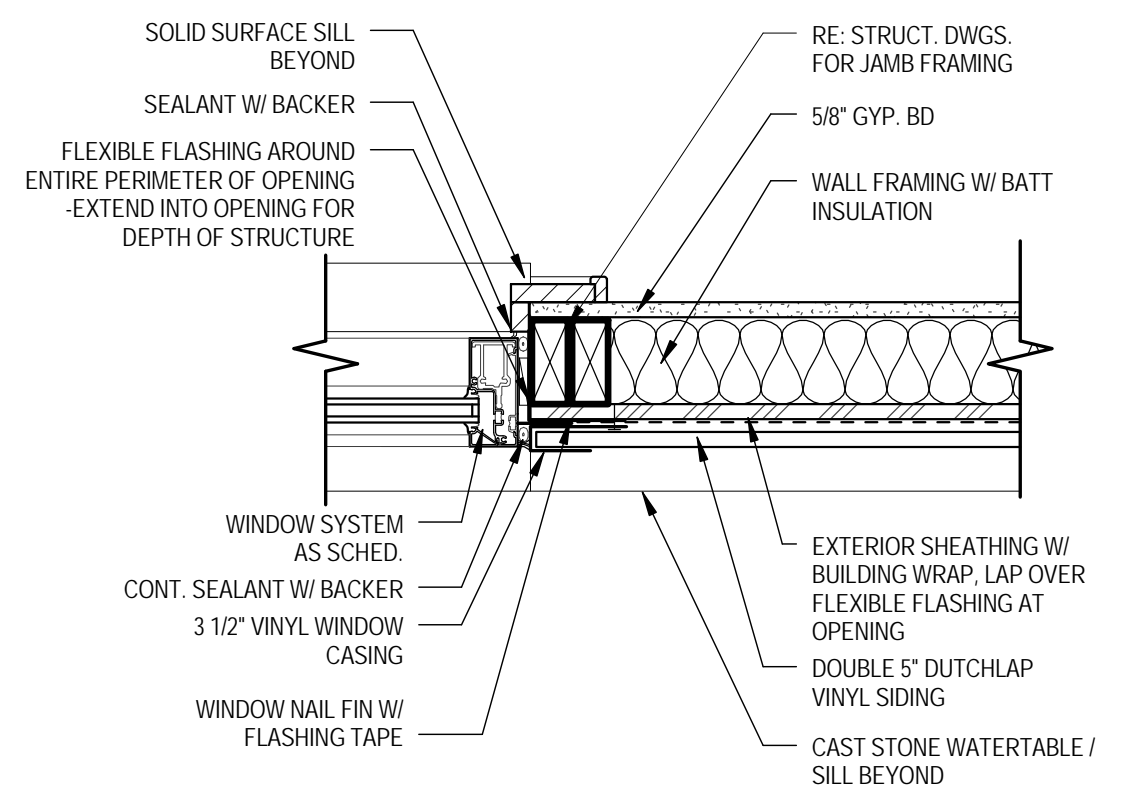
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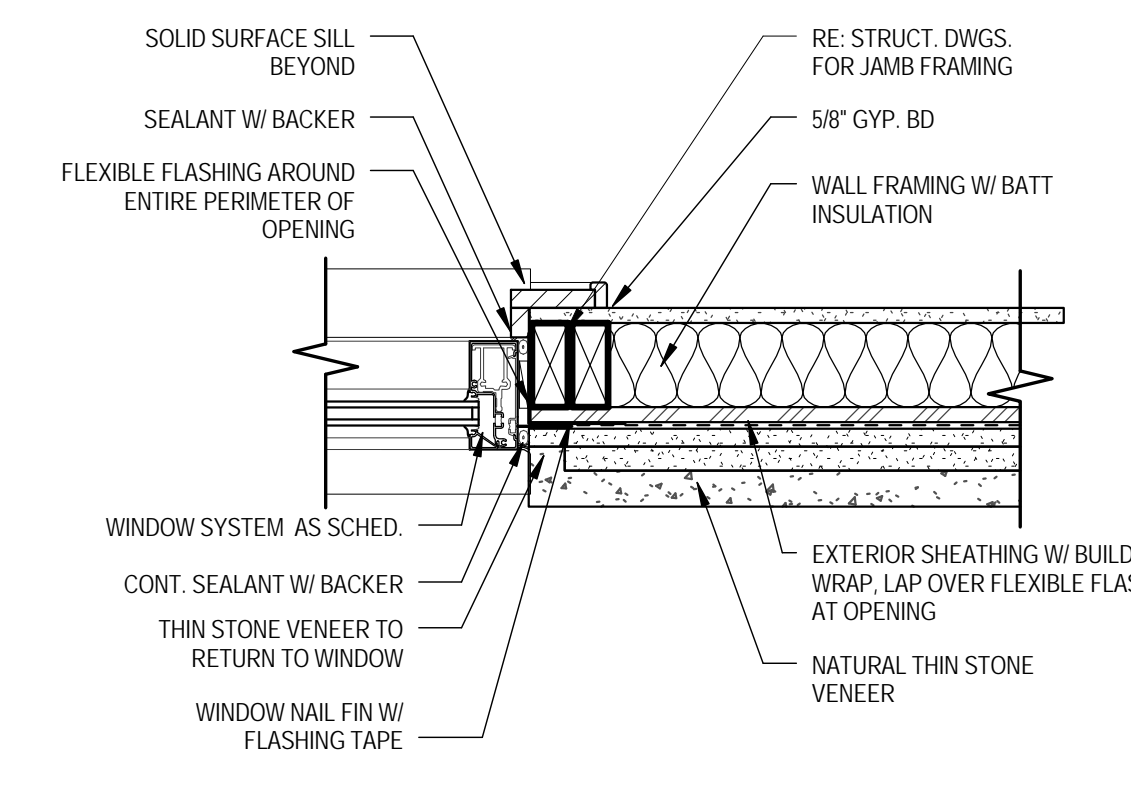
7 TYPICAL SIDING DETAIL @ STONE SILL
1 1/2" = 1'-0"



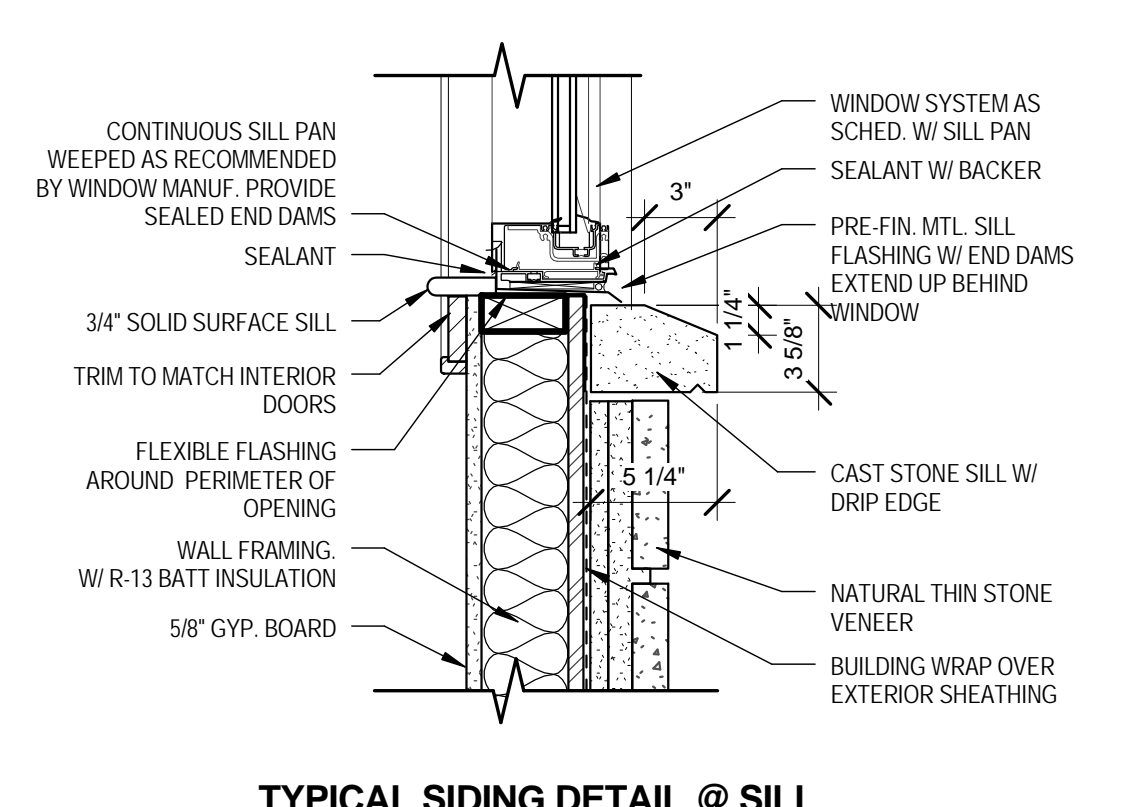
TYPICAL SIDING DETAIL @ HEAD



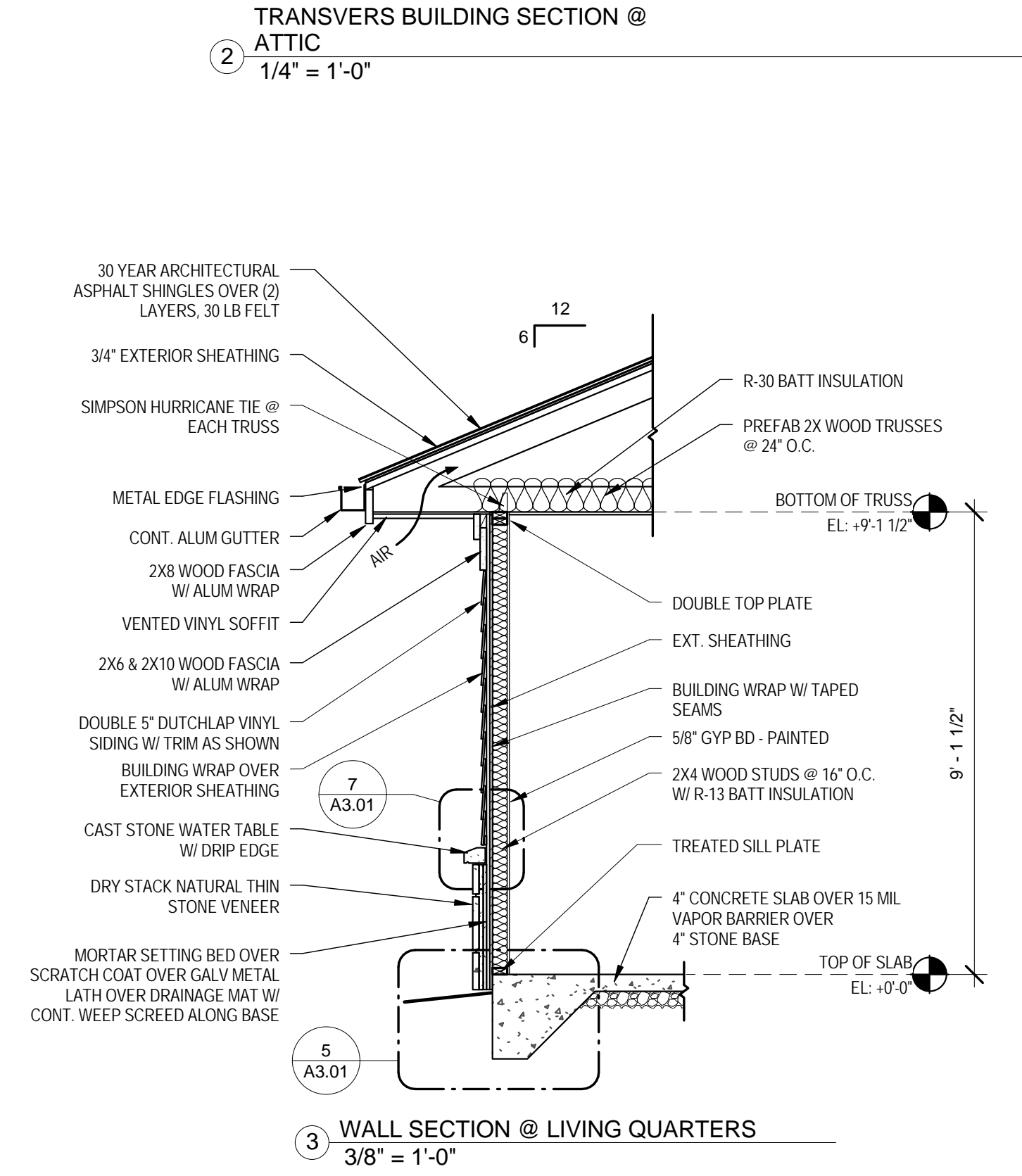
TYPICAL SIDING DETAIL @ JAMB



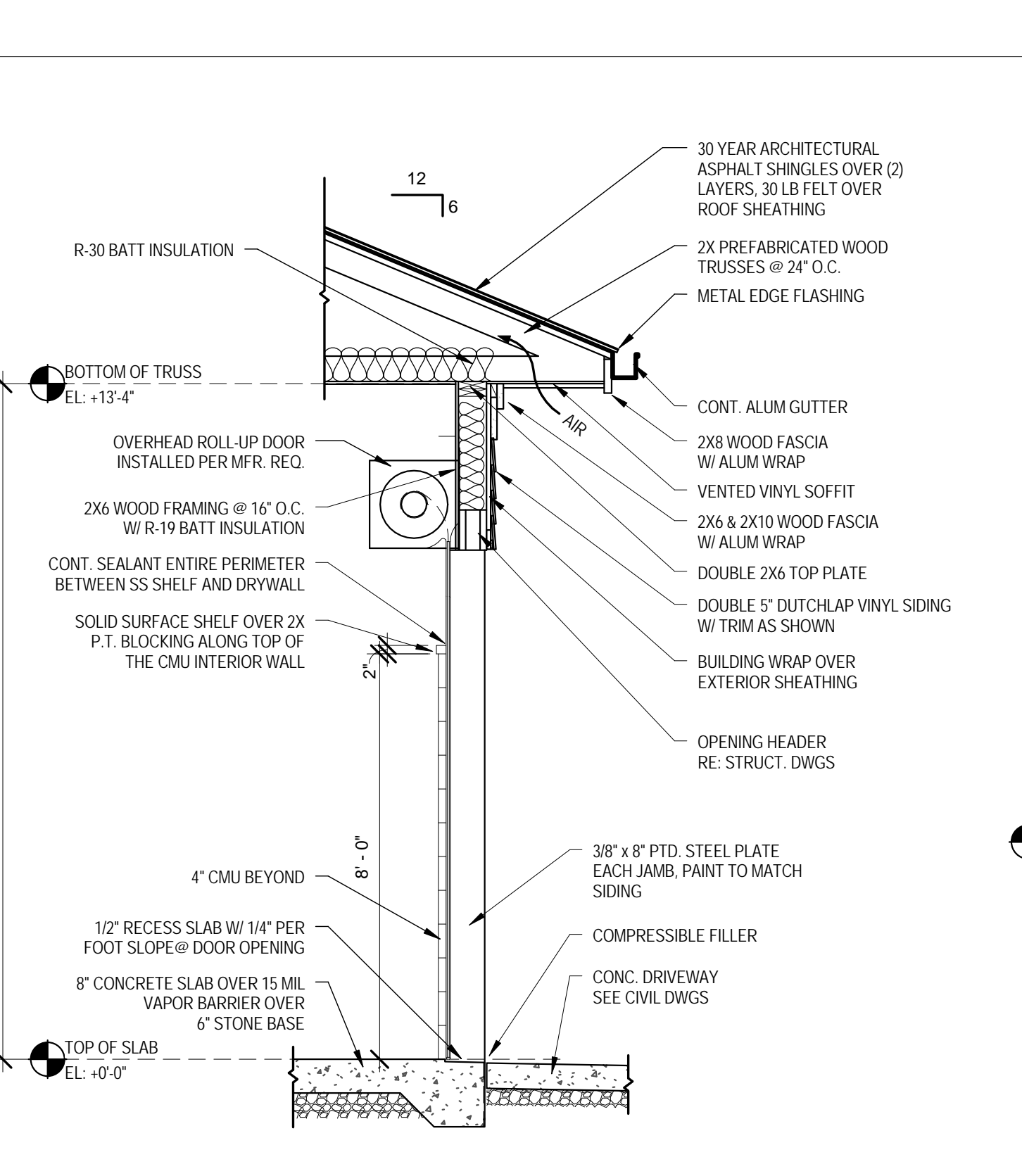
TYPICAL THIN STONE VENEER DETAIL @ JAMB



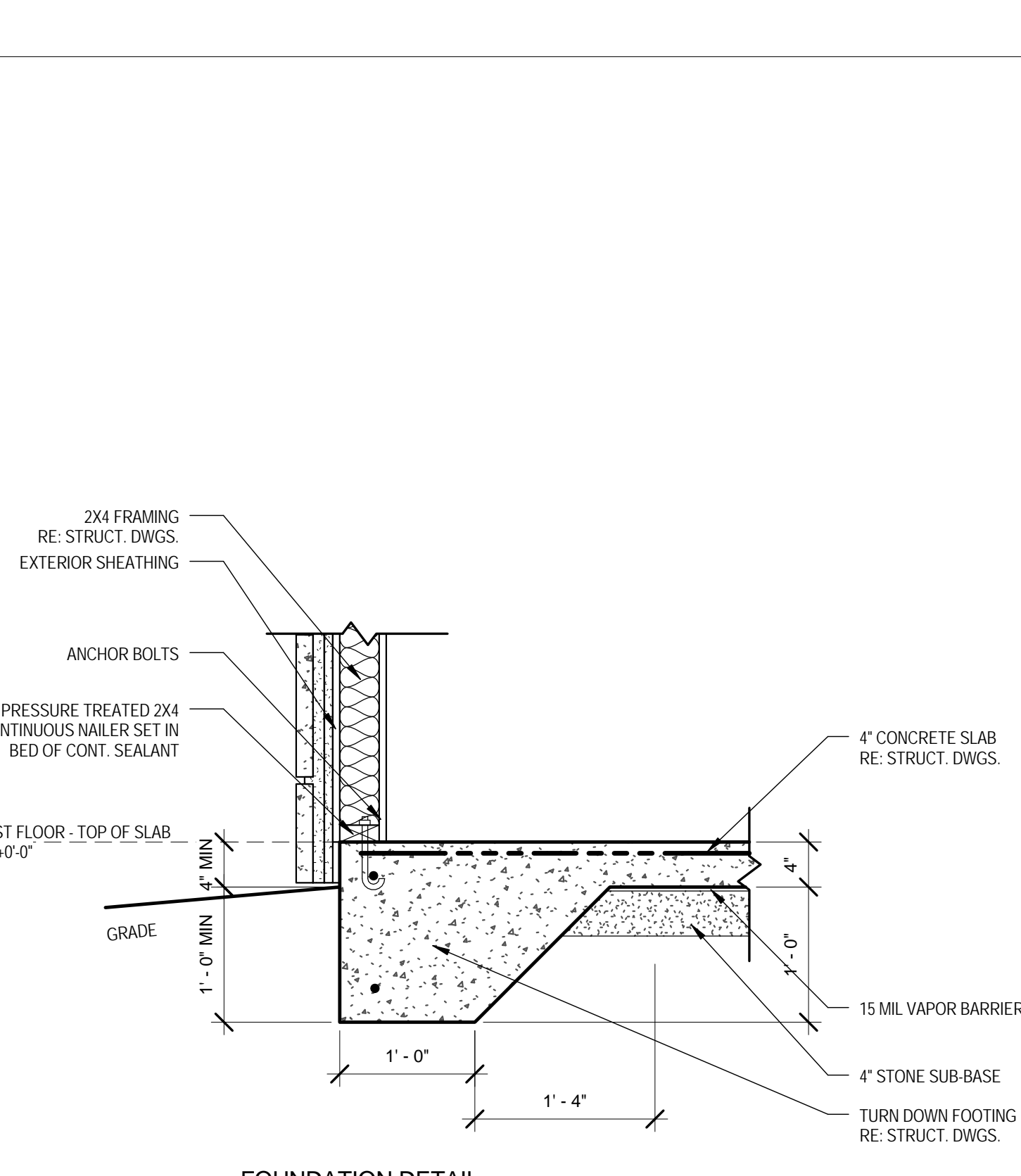
TYPICAL SIDING DETAIL @ OPENING
1 1/2" = 1'-0"



3 WALL SECTION @ LIVING QUARTERS
3/8" = 1'-0"



4 WALL SECTION @ OVERHEAD DOOR
3/8" = 1'-0"



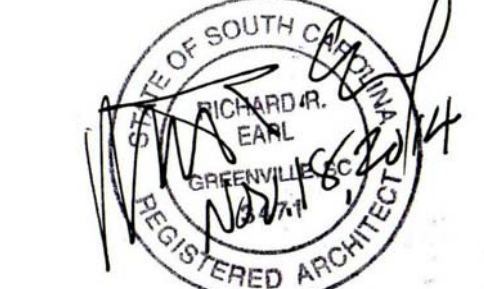
5 FOUNDATION DETAIL
1" = 1'-0"



DUNCAN CHAPEL
FIRE DISTRICT
STATION 2
NEW FACILITY
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BUILDING SECTIONS & DETAILS

A3.01

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Checked By

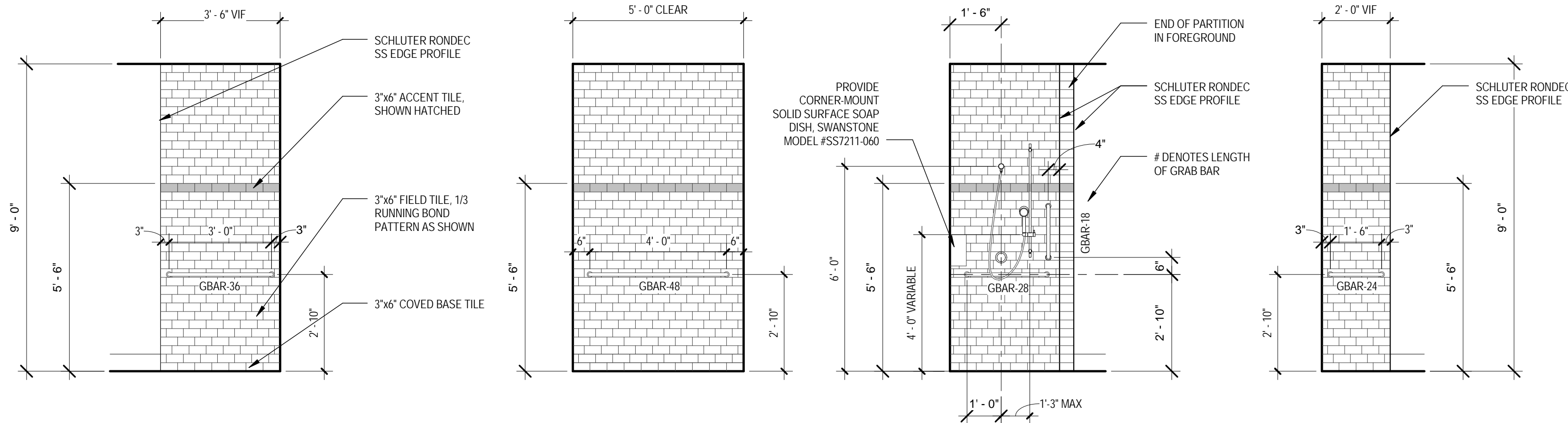
RRE
DMR
SJM

Project Number
Date

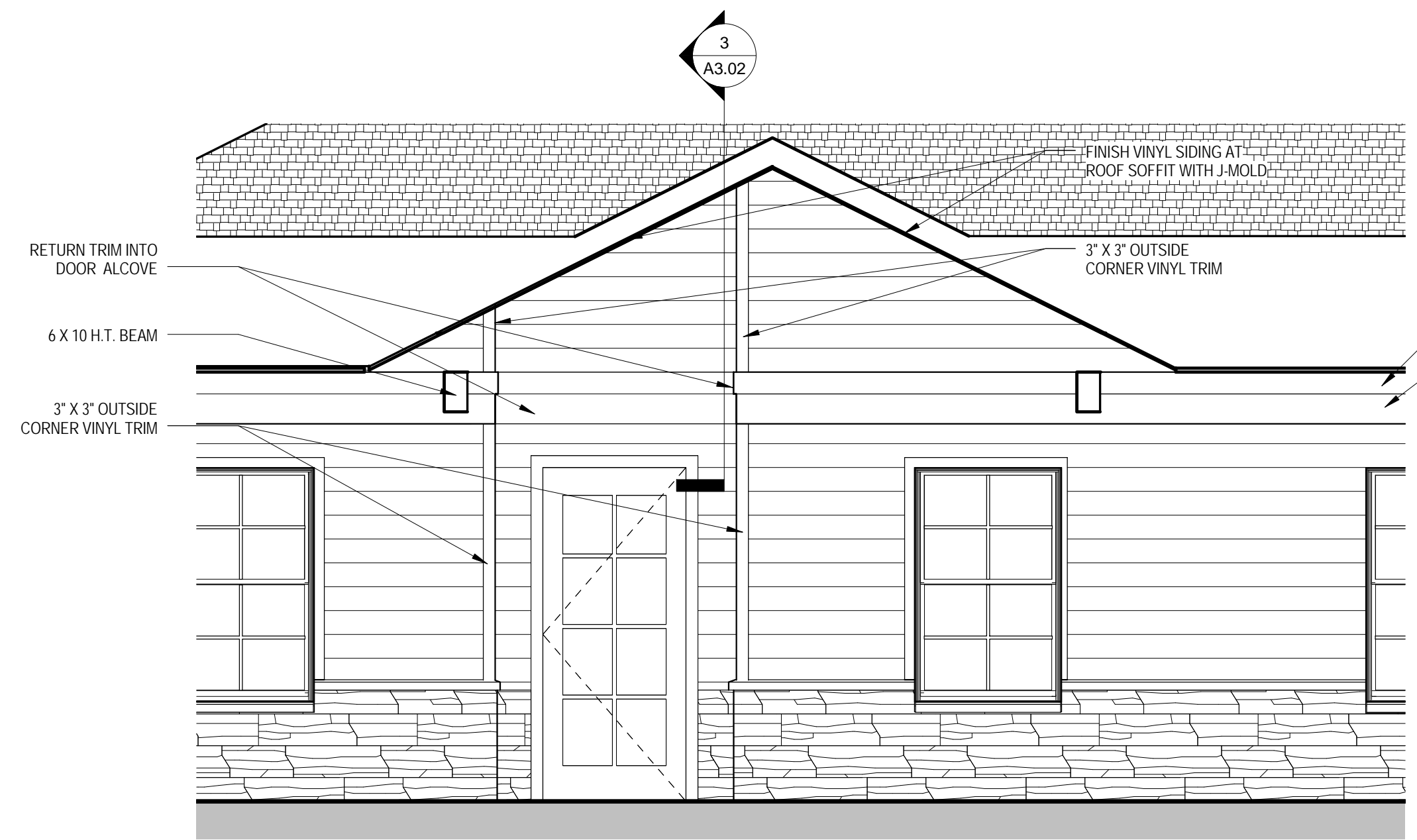
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11/18/2014



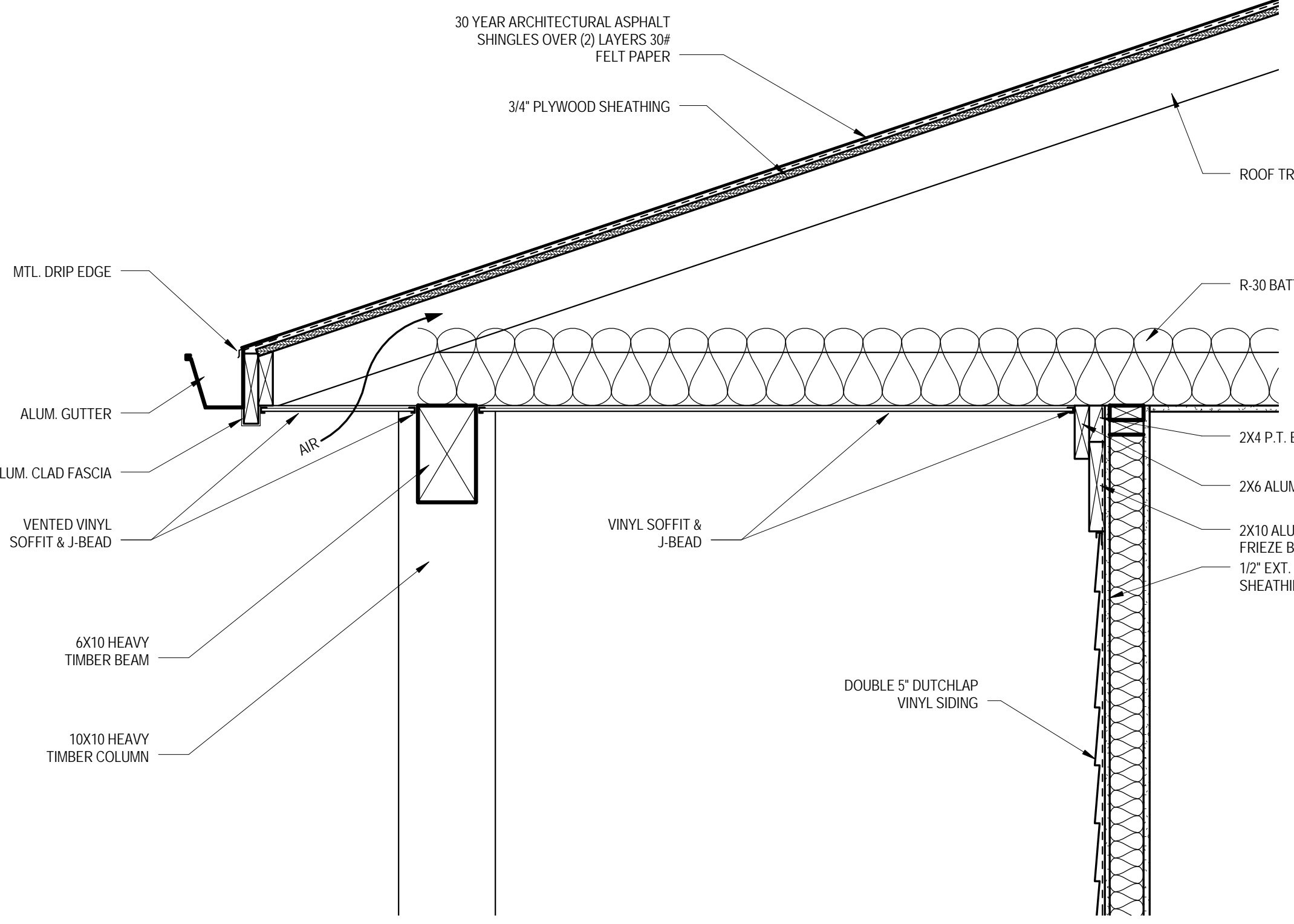
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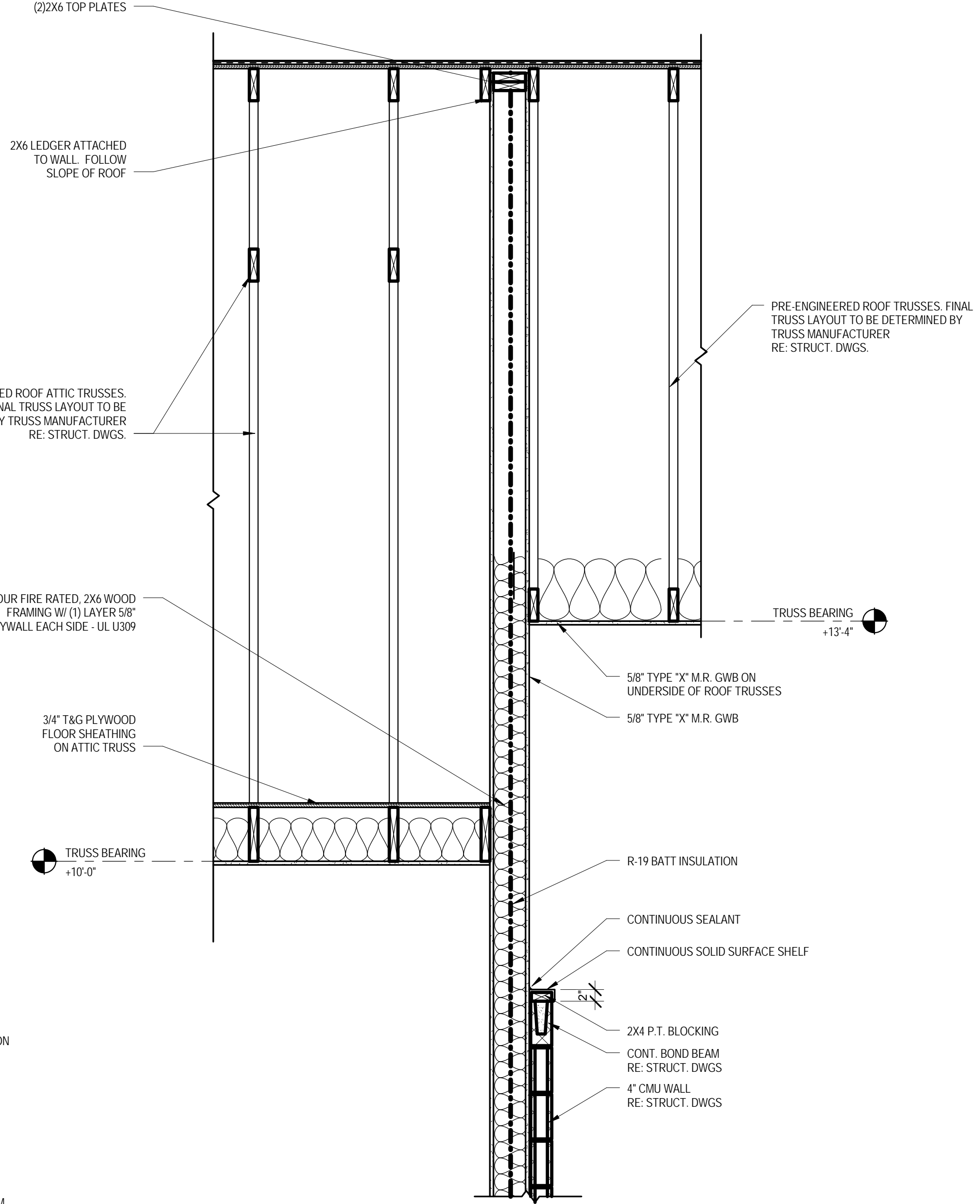
6 TILED SHOWER ELEVATIONS
3/8" = 1'-0"



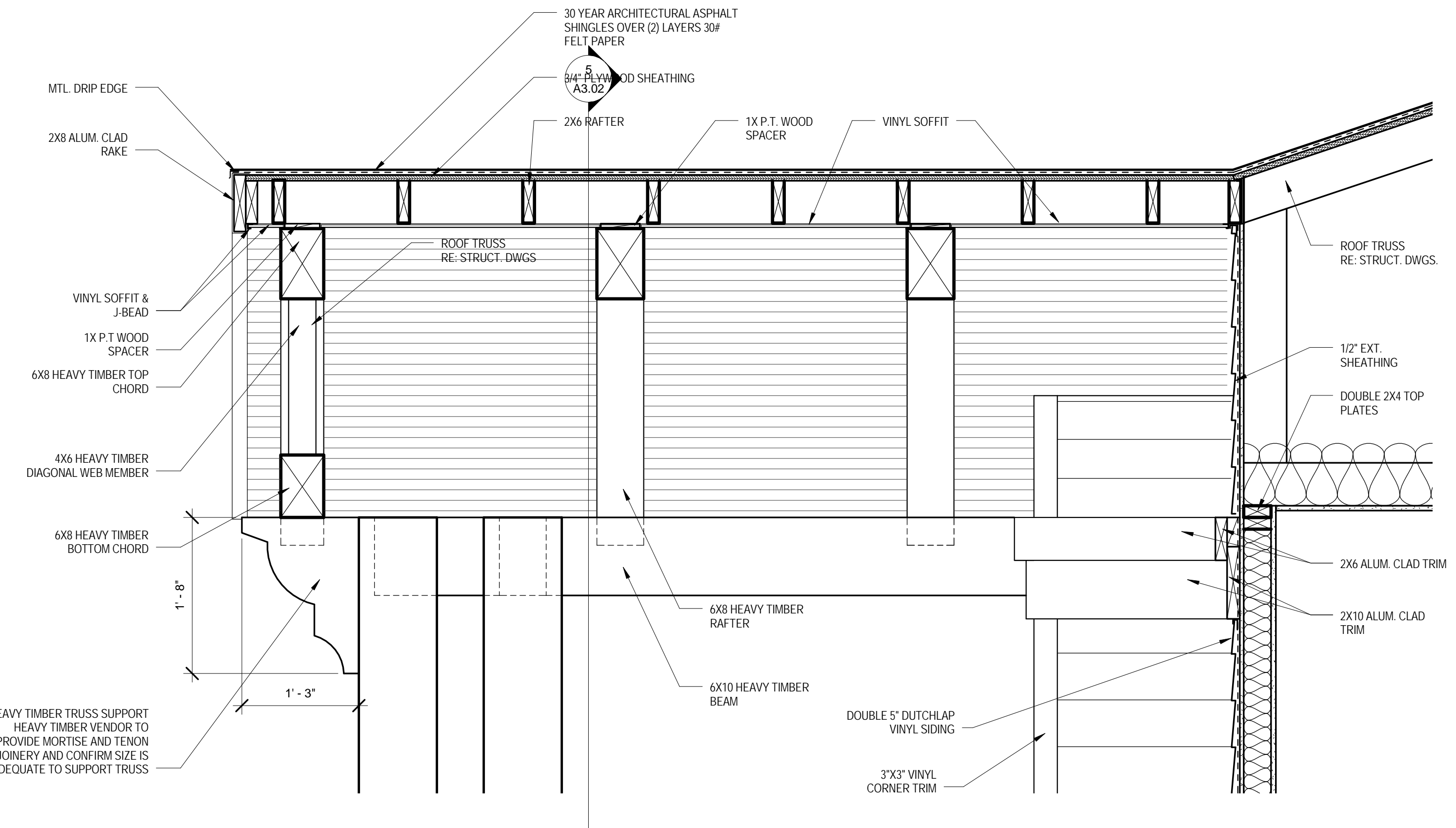
5 ELEVATION @ DOOR ALCOVE
3/8" = 1'-0"



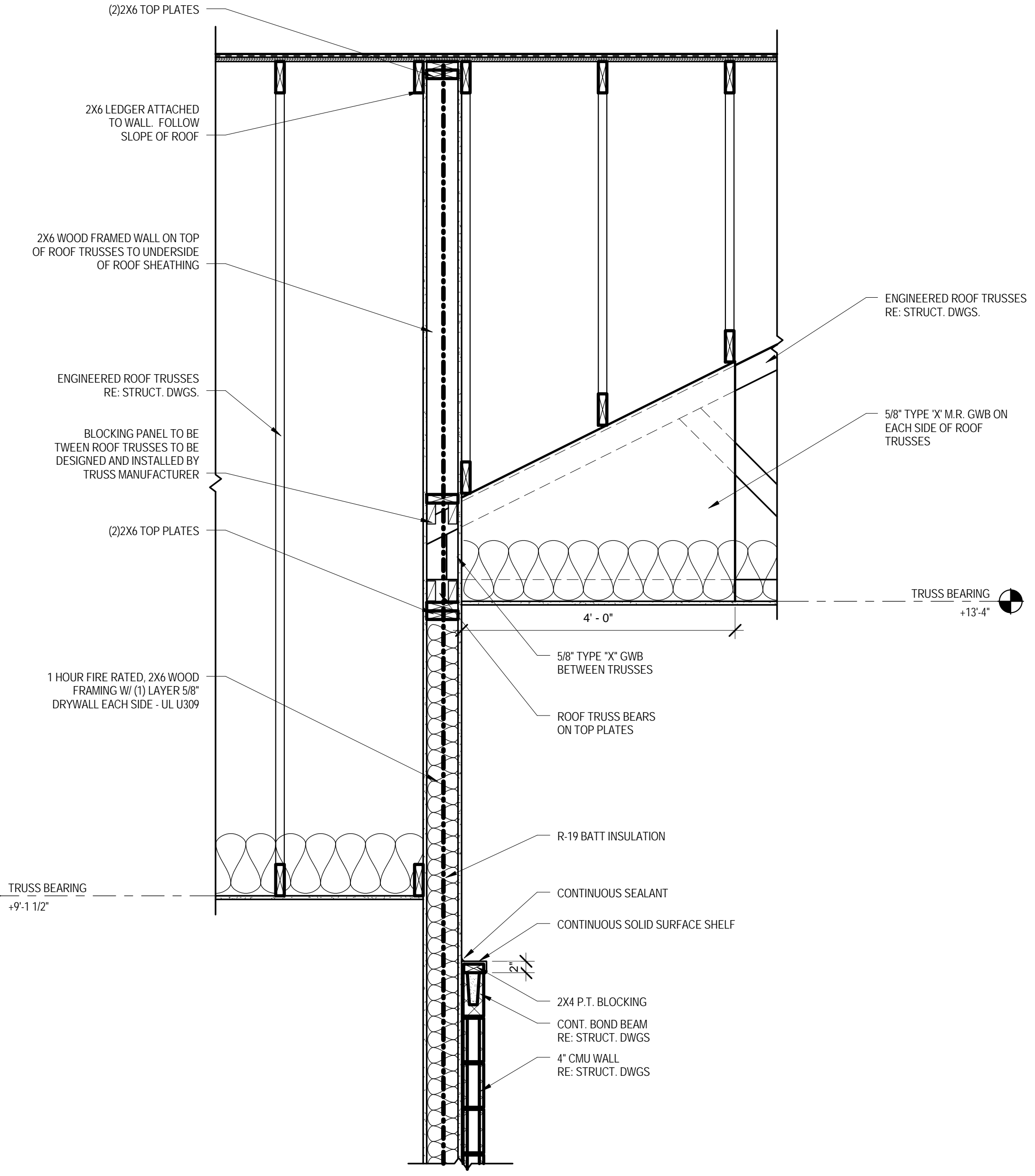
4 ROOF DETAIL @ PORCH OVERHANG
1" = 1'-0"



2 ROOF DETAIL @ 1HR WALL BY ATTIC
3/4" = 1'-0"



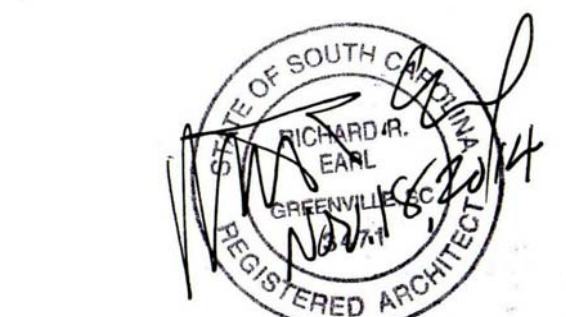
3 ROOF DETAIL @ ENTRANCE
1" = 1'-0"



1 ROOF DETAIL @ 1HR WALL
3/4" = 1'-0"

Keyplan

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WALL SECTIONS AND
DETAILS

A3.02

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Checked By SJM

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Date 11/18/2014



**DUNCAN CHAPEL
FIRE DISTRICT 2
NEW FACILITY
GREENVILLE, SC**

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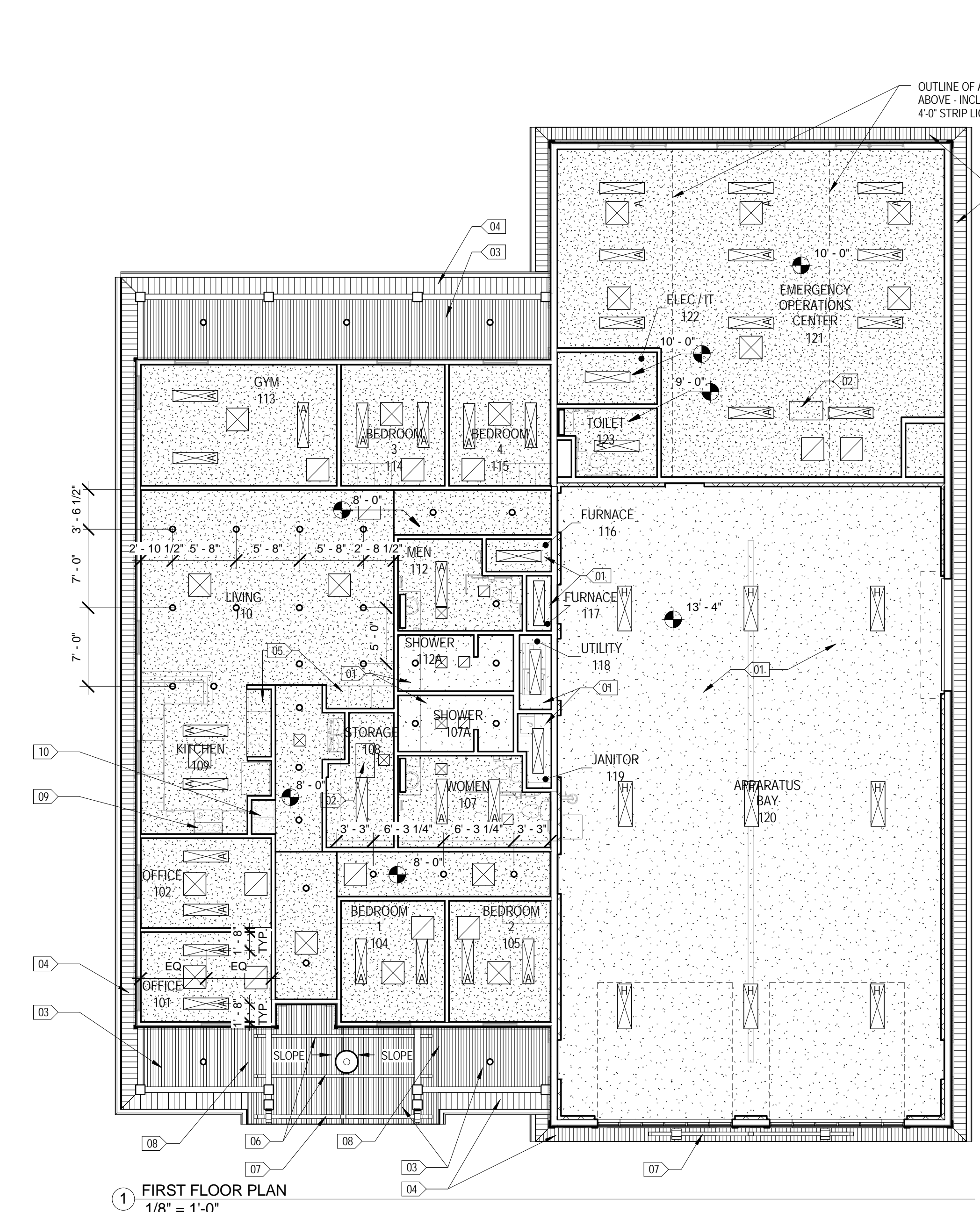
**RCP, INTERIOR
ELEVATIONS, DOOR
SCHEDULE, DOOR &
WINDOW ELEVATIONS**

A7.01

In Charge
Drawn By
Checked By

RRE
DMR
SJM

Project Number 1033.00.00
Date 11/18/2014



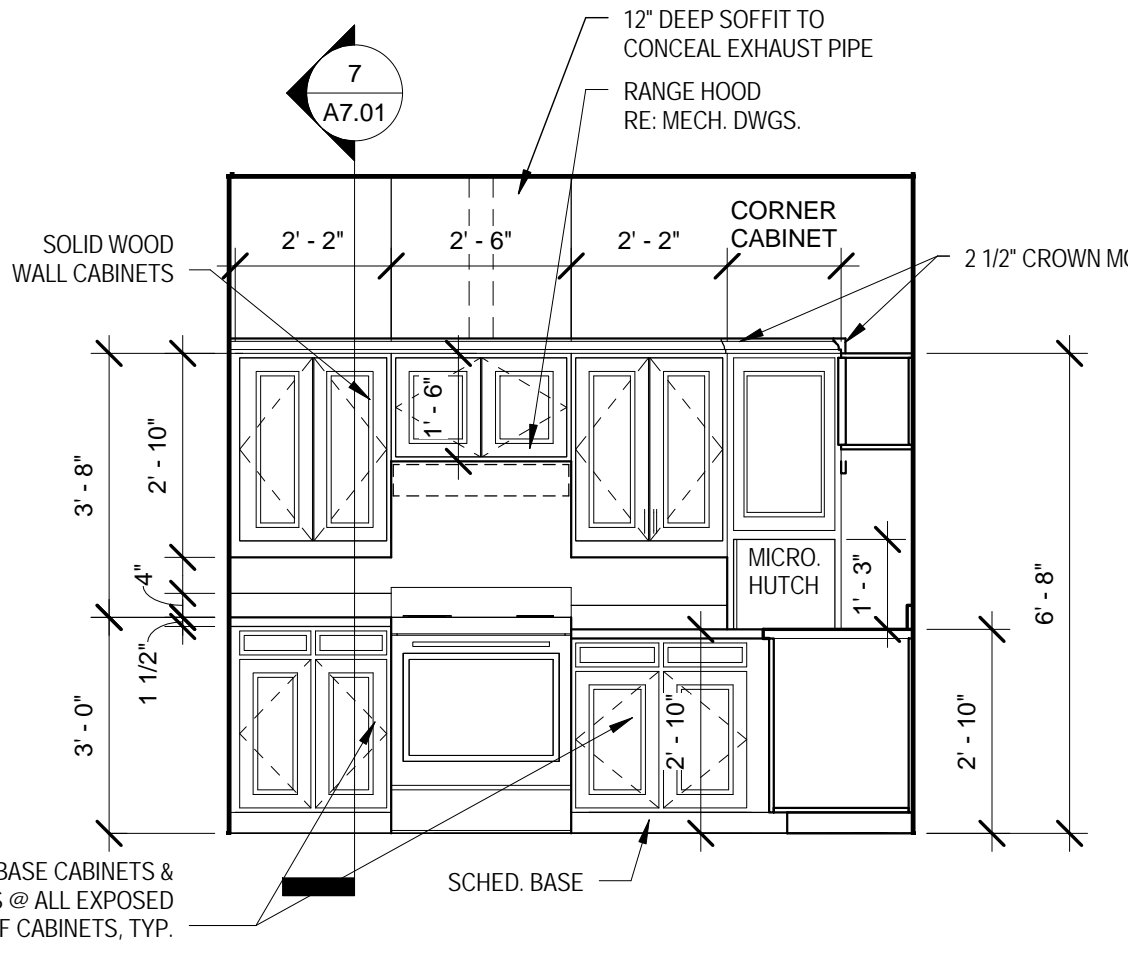
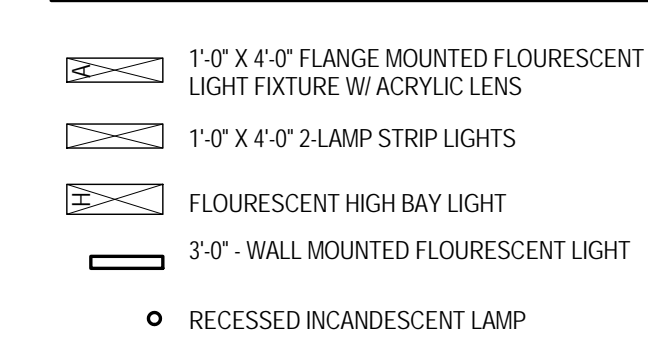
GENERAL NOTES - RCP

- A) ALL CEILING HEIGHTS ARE AT UNDERSIDE OF ROOF TRUSS (+9'-1 1/2') UNLESS NOTED OTHERWISE.
- B) LIGHT FIXTURES TO BE LOCATED PER RCP. NOTIFY ARCHITECT OF ANY CONFLICTS WITH GRILLES, DIFFUSERS, LIGHTS, SPRINKLER HEADS, ETC. NOT SHOWN ON THESE PLANS AS DESIGNED BY MECHANICAL AND ELECTRICAL ENGINEERS.
- C) ALL CEILING SHALL BE PAINTED GYPSUM BOARD UNLESS NOTED OTHERWISE.
- D) ALL VERTICAL SURFACES OF GYM BD SOFFITS ARE TO BE PAINTED TO MATCH ADJACENT WALLS. UNLESS AN UNDERLAY OF THE FLOOR PLAN IS SHOWN FOR GRAPHIC PURPOSES ONLY.
- E) COORDINATE LOCATION OF RECESSED LIGHTS WITH ROOF TRUSSES. NOTIFY ARCHITECT OF ANY CONFLICTS WITH ROOF TRUSSES.

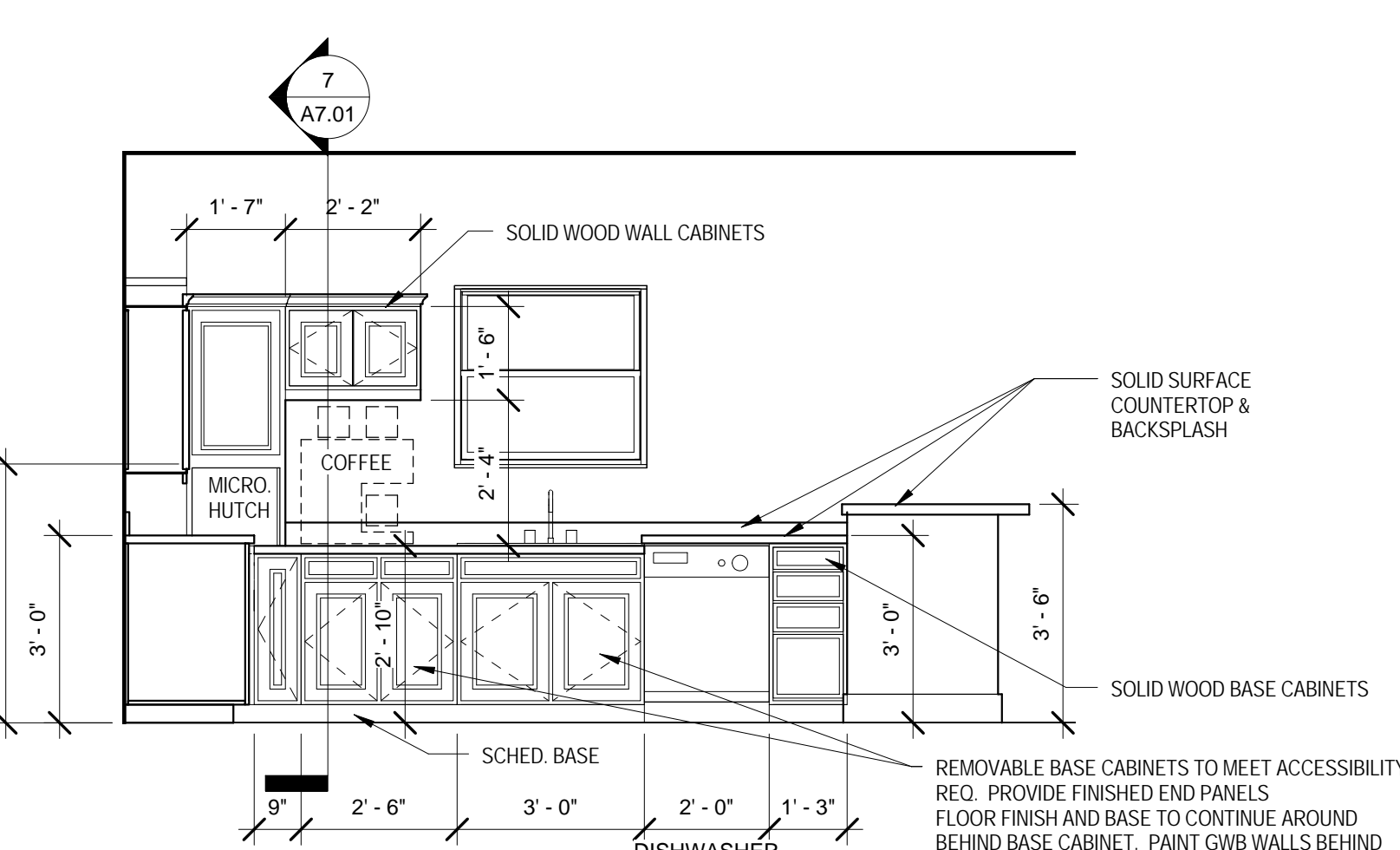
KEYNOTES - RCP

- 01 PAINTED MOISTURE RESISTANT GYPSUM BOARD
- 02 ATTIC ACCESS ABOVE SHOWN DASHED. COORDINATE LOCATION WITH LIGHT LAYOUT AND MECHANICAL EQUIP. ABOVE. PROVIDE ACCESS DOOR LADDER.
- 03 3" BEADBOARD STYLE VINYL SOFFIT.
- 04 6" VENTILATED VINYL SOFFIT. ALL SOFFIT PANELS TO BE VENTILATED.
- 05 SOFFIT ABOVE LOCKERS
- 06 H.T. ROOF RAFTERS
- 07 H.T. TRUSS
- 08 BREAK METAL H-TRIM TO TRANSITION FROM HORIZONTAL TO SLOPED SOFFIT. COLOR TO MATCH SOFFIT.
- 09 COORDINATE DIMENSION OF SOFFIT ABOVE CABINET TO CONCEAL HOOD EXHAUST
- 10 COORDINATE SOFFIT HEIGHT WITH CABINERY.

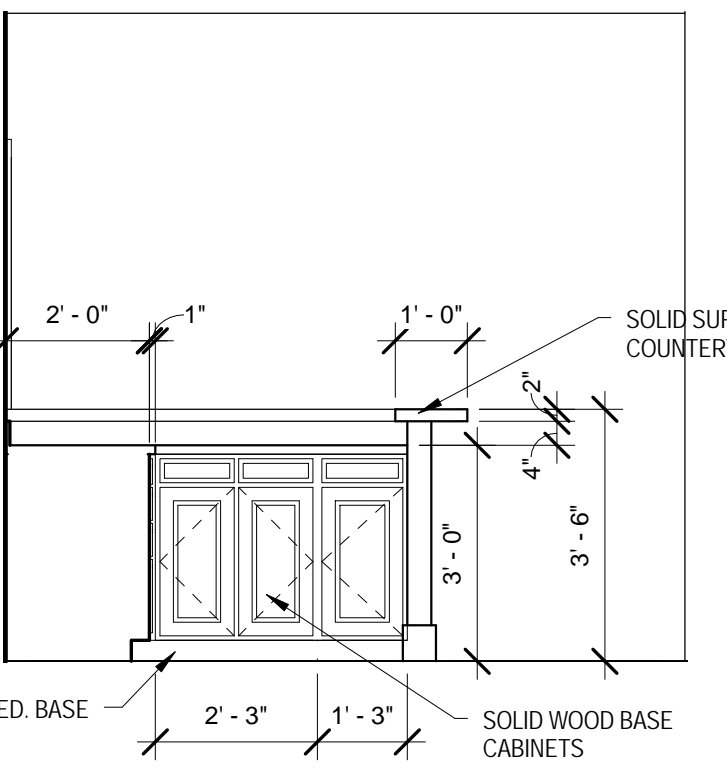
LIGHTING LEGEND - RCP



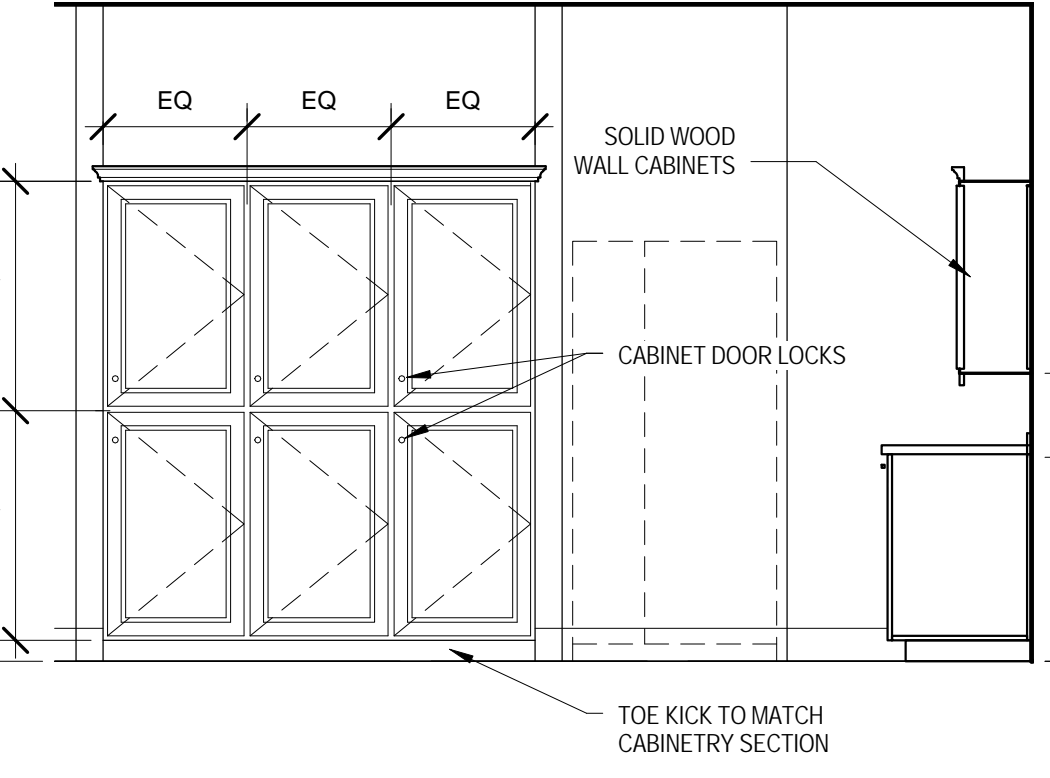
**2 KITCHEN - SOUTH ELEVATION
3/8" = 1'-0"**



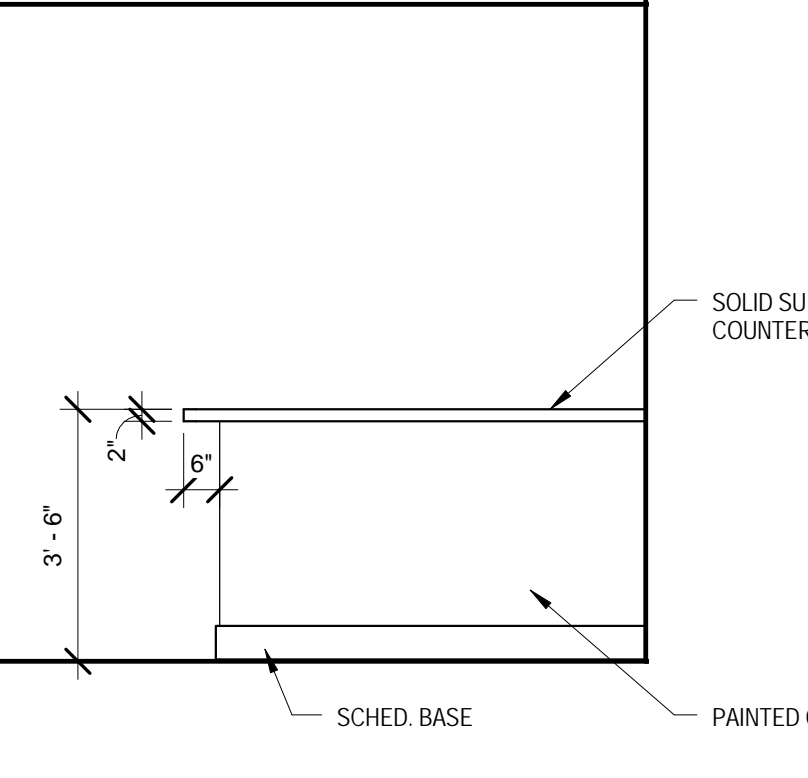
**3 KITCHEN - WEST ELEVATION
3/8" = 1'-0"**



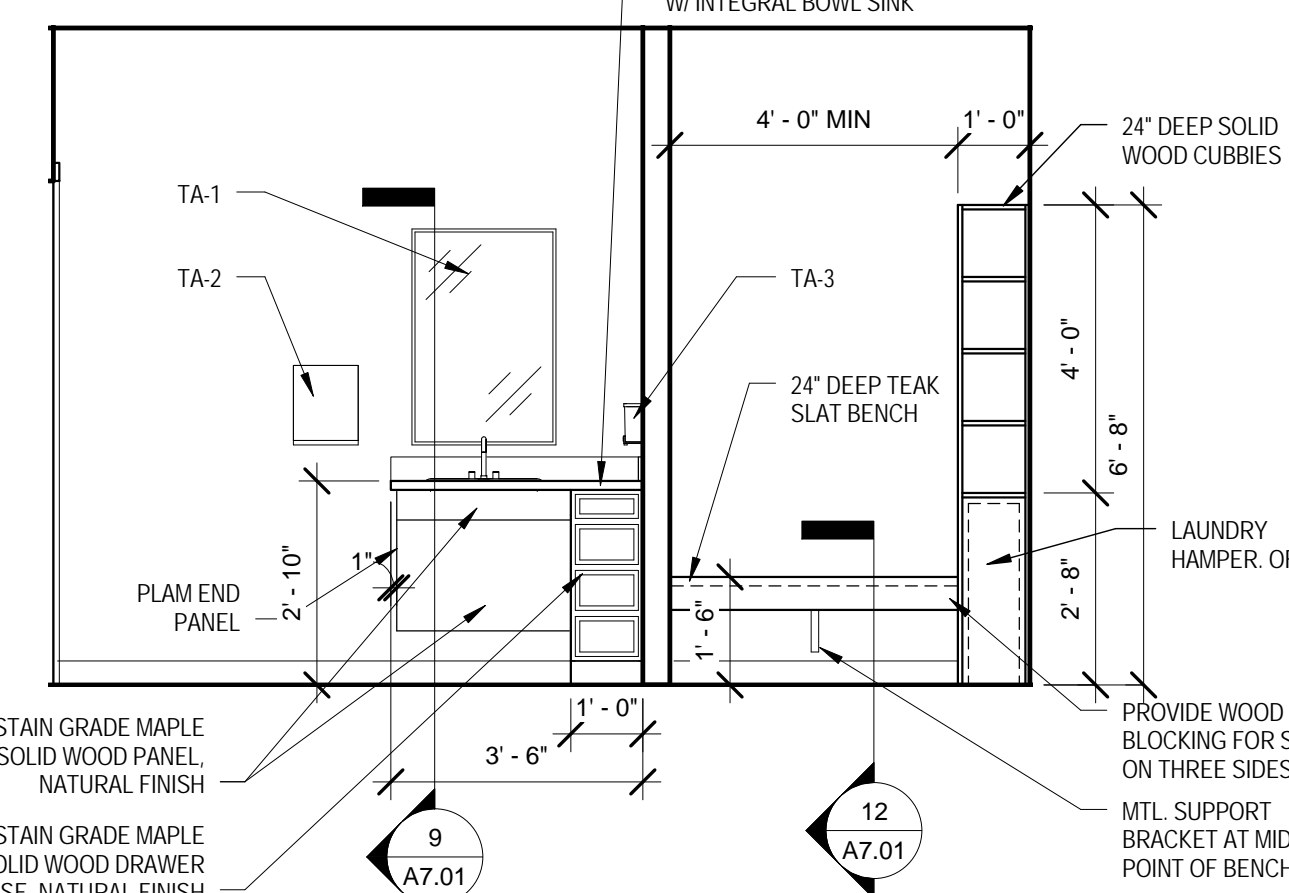
**4 KITCHEN - NORTH ELEVATION
3/8" = 1'-0"**



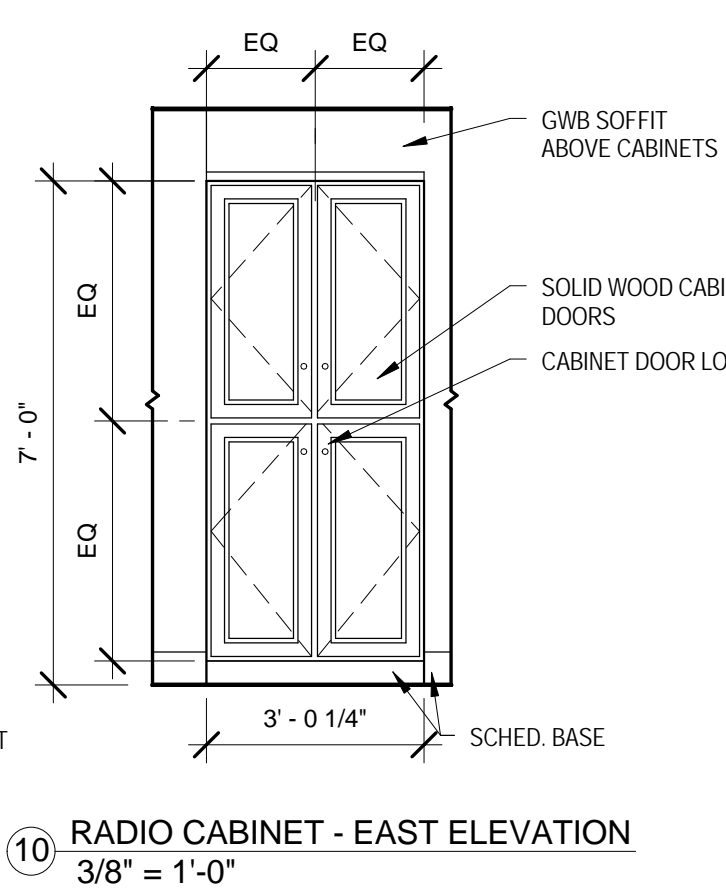
**5 KITCHEN - EAST ELEVATION
3/8" = 1'-0"**



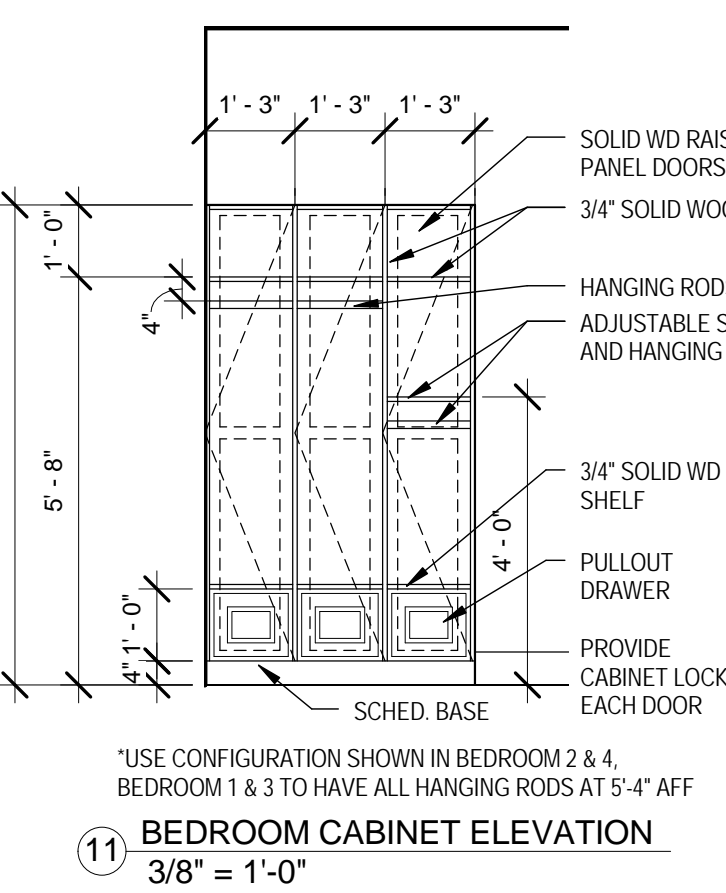
**6 KITCHEN - SOUTH ISLAND ELEVATION
3/8" = 1'-0"**



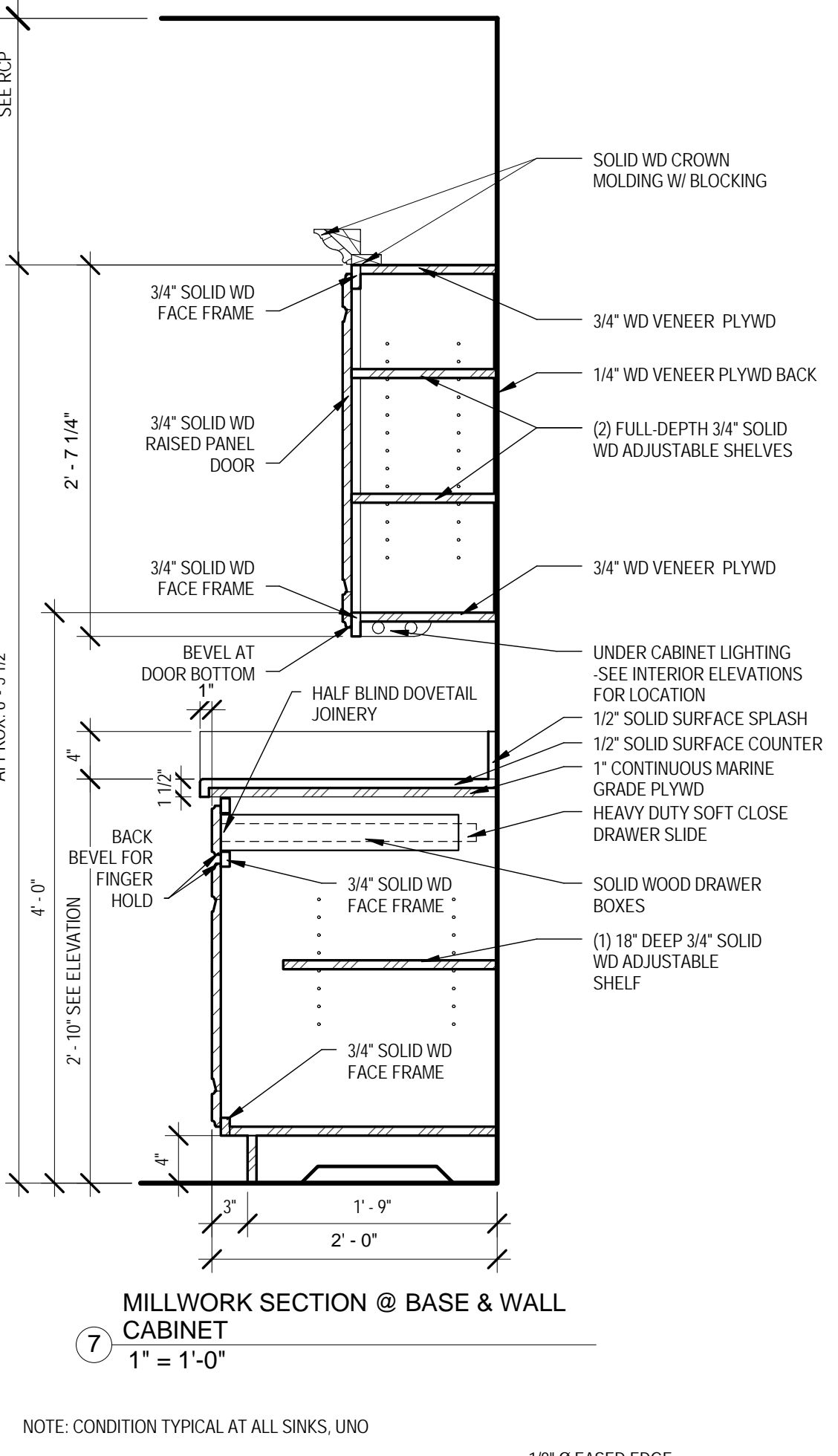
**8 RESTROOM/SHOWER ROOM - WEST
ELEVATION - WOMEN 107, MEN 112 O.H.
3/8" = 1'-0"**



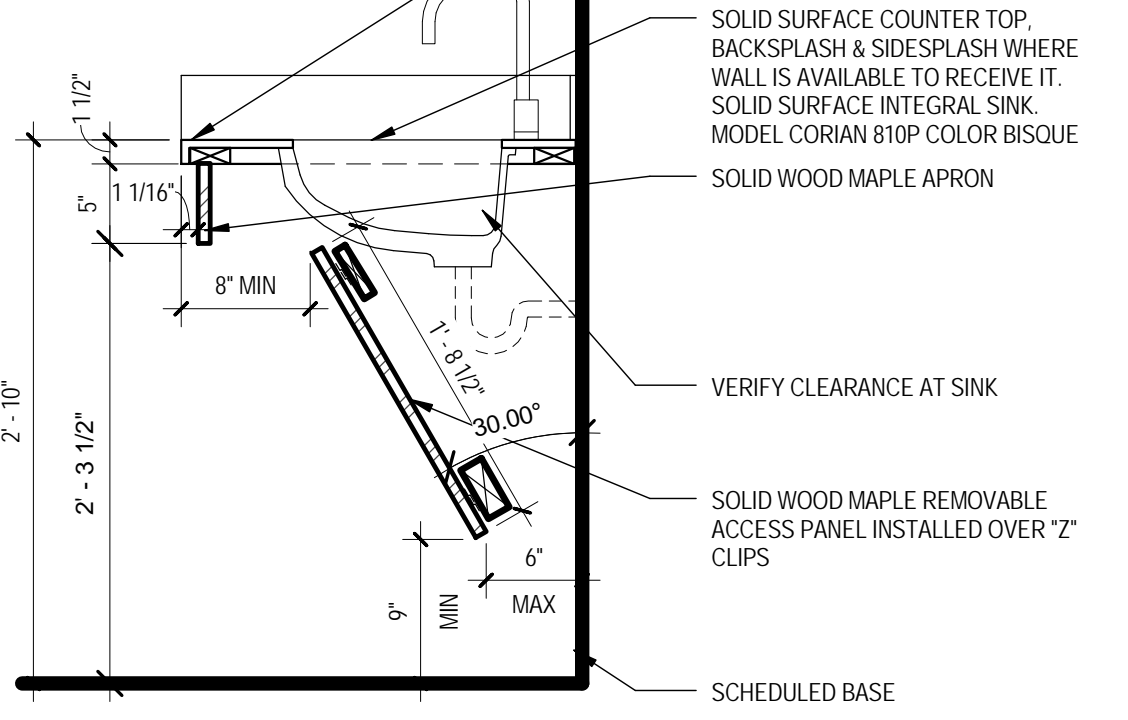
**10 RADIO CABINET - EAST ELEVATION
3/8" = 1'-0"**



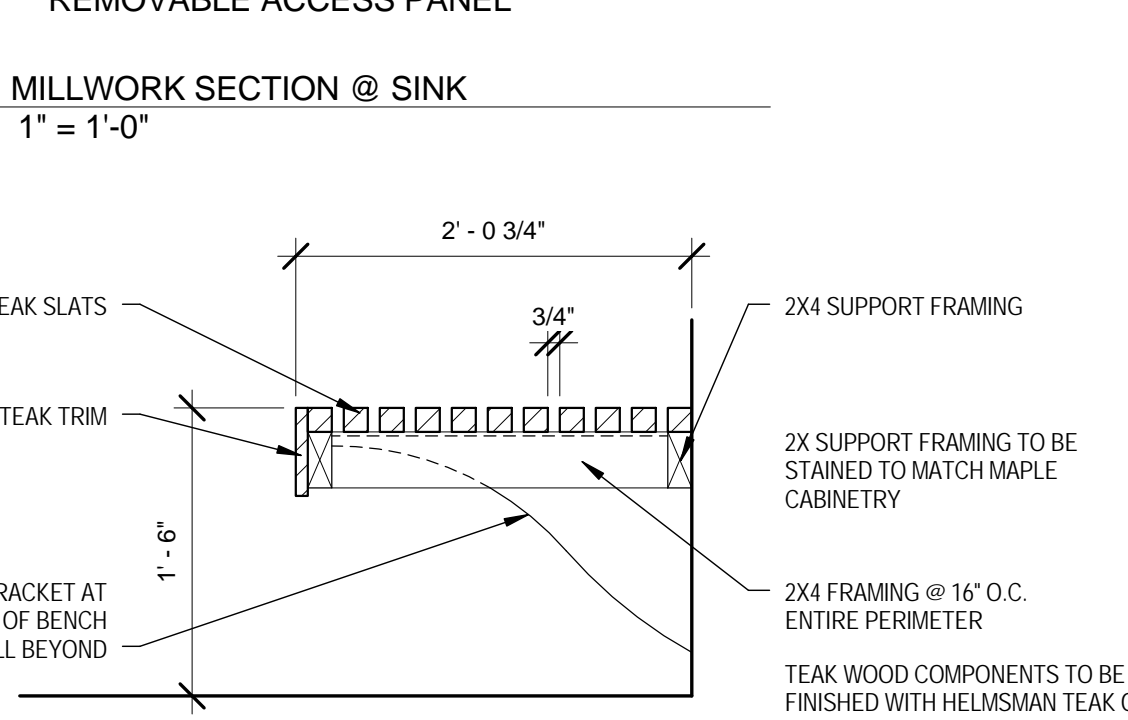
**11 BEDROOM CABINET ELEVATION
3/8" = 1'-0"**



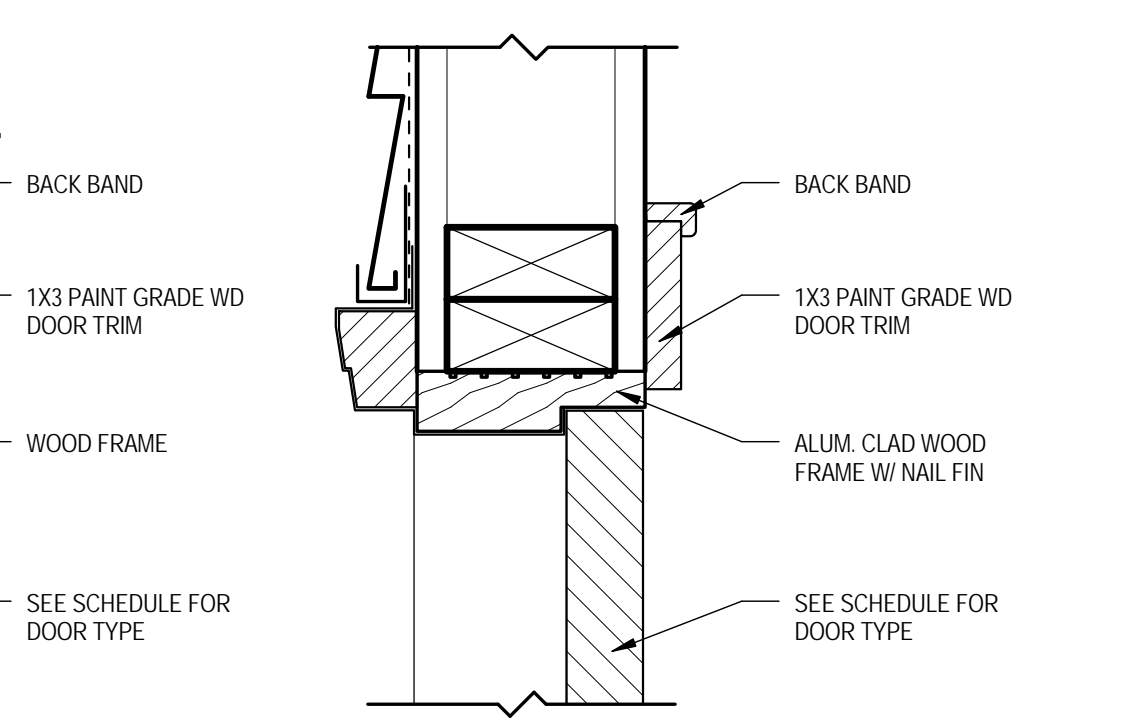
**7 MILLWORK SECTION @ BASE & WALL
1" = 1'-0"**



**9 MILLWORK SECTION @ SINK
1" = 1'-0"**



**12 MILLWORK SECTION @ BENCH
1" = 1'-0"**



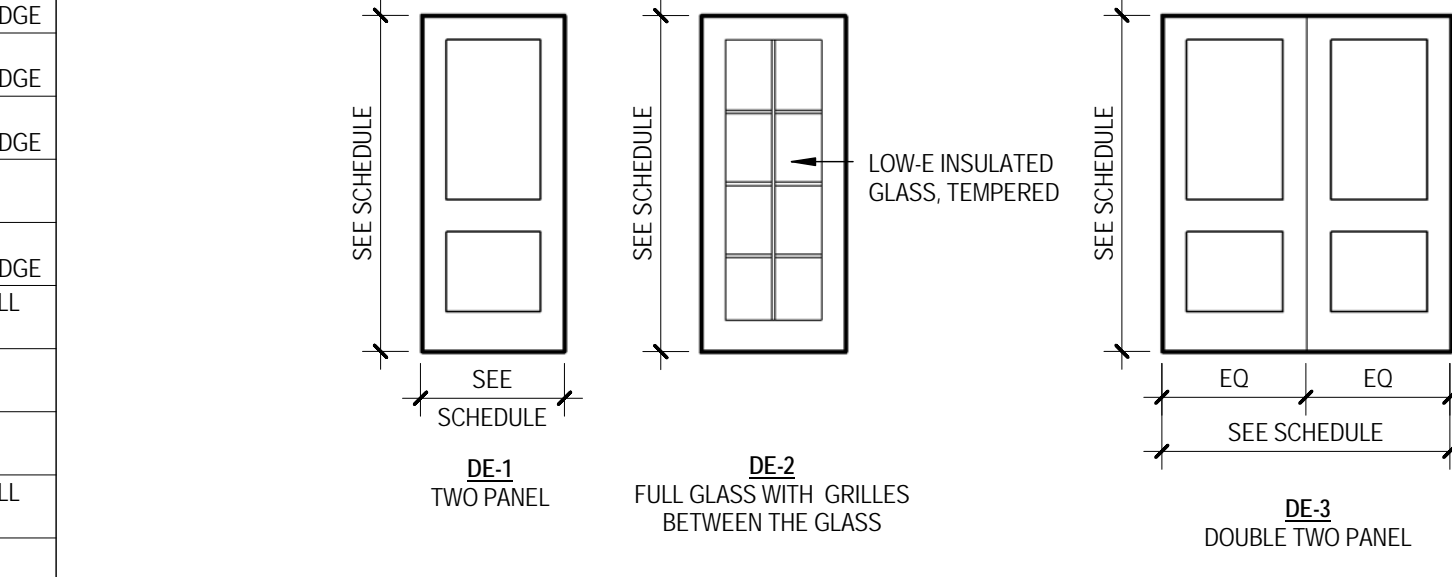
DOOR/JAMB DETAILS

GENERAL NOTES - INTERIOR ELEVATIONS

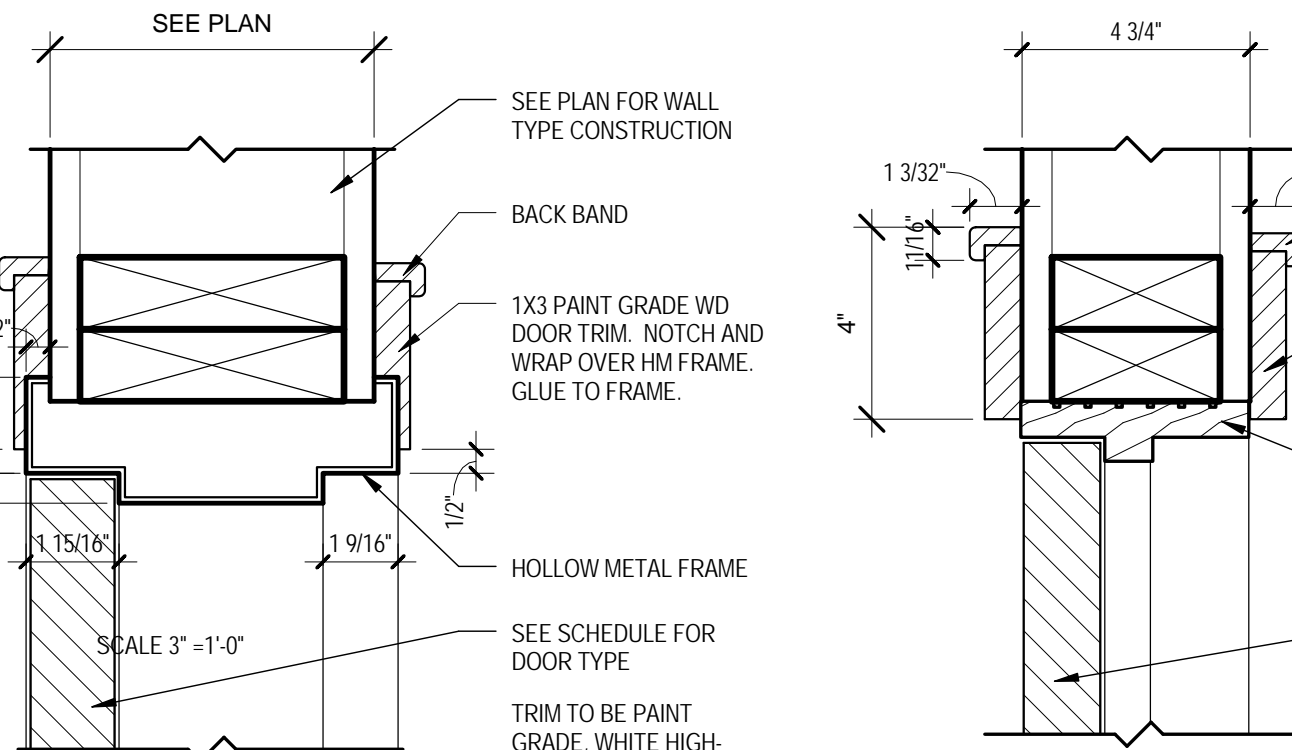
- A) ALL COUNTERS TO BE 2-1/2" DEEP SOLID SURFACE UNLESS NOTED OTHERWISE. ALL BASE & WALL CABINETS TO BE STAIN GRADE MAPLE UNLESS NOTED OTHERWISE.
- B) ALL CABINERY SHALL BE CONFIGURED AS SHOWN ON ELEVATIONS. SEE SPECIFICATIONS FOR FURTHER DESCRIPTION OF MILLWORK REQUIREMENTS.
- C) THE MILLWORK CONTRACTOR SHALL INSPECT ALL SUBSTRATES PRIOR TO INSTALLATION OF CABINERY. IF NOT ADEQUATELY LEVEL, PLUMB, OR OTHERWISE UNSUITABLE TO MAINTAIN LEVEL AND SQUARE TOLERANCES OF 1/8", THE ARCHITECT IS TO BE NOTIFIED PRIOR TO INSTALLATION OF CABINERY. THE GENERAL CONTRACTOR IS TO CORRECT ALL UNEVEN, UNLEVEL, OR OUT-OF-PLUMB SUBSTRATES TO THE MILLWORK CONTRACTOR'S SATISFACTION.
- D) ALL EQUIPMENT & FURNISHINGS SHOWN IS FOR GRAPHIC PURPOSES ONLY. CONTRACTOR TO PROVIDE APPLIANCES PER SCHEDULE ON SHEET A1.01. CONTRACTOR TO COORDINATE ALL REQUIRED APPLIANCE CLEARANCES AND OPENINGS WITH CABINERY.
- E) SCHEDULED BASE SHALL BE RUN BEHIND ALL EQUIPMENT LOCATIONS.
- F) ADJUSTABLE SHELVING SHALL BE PROVIDED AS FOLLOWS UNLESS NOTED OTHERWISE:
- 12" & 15" HIGH WALL CABINETS SHALL HAVE NO SHELVES
- 24" HIGH WALL CABINETS SHALL HAVE (1) ADJ. FULL-DEPTH SHELF
- 30" & 36" HIGH WALL CABINETS SHALL HAVE (2) ADJ. FULL-DEPTH SHELVES
- BASE CABINETS SHALL HAVE (1) ADJ. 18" DEEP SHELF
G) GROMMETS TO BE 2" DIAMETER AND SHALL BE LOCATED & INSTALLED IN THE FIELD. GROMMETS SHALL BE PROVIDED AS NECESSARY WHERE BELOW COUNTER OUTLETS ARE LOCATED. REFER TO ELECTRICAL AND COMMUNICATIONS DRAWINGS FOR ADDITIONAL OUTLET INFORMATION.
H) ALL WALL CABINETS SHALL BE 1/4" DEEP CLEAR INSIDE DIMENSION UNLESS NOTED OTHERWISE.
I) ALL EXPOSED ENDS AND END PANELS SHALL BE FINISHED.
J) ALL SCREWS AND FILLERS SHALL BE SHOWN ON SHOP DRAWINGS. 1" MAX WIDTH.
K) WOOD GRAIN PLASTIC LAMINATE ON CABINETS, DRAWERS, END PANELS, ETC. SHALL RUN IN THE VERTICAL DIRECTION.
L) ALL MILLWORK SHALL BE FINISHED WITH A MATCHING ENCLOSURE PANEL UNLESS NOTED OTHERWISE.
M) CENTER POWER AND DATA OUTLETS BELOW COUNTERS WHERE KNEE SPACES OCCUR, UNLESS NOTED OTHERWISE.
N) ALL SOLID SURFACE COUNTERS SHALL HAVE 1/8" EASED EDGES, TYP.
O) PROVIDE DETAILED SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

GENERAL HARDWARE NOTES:

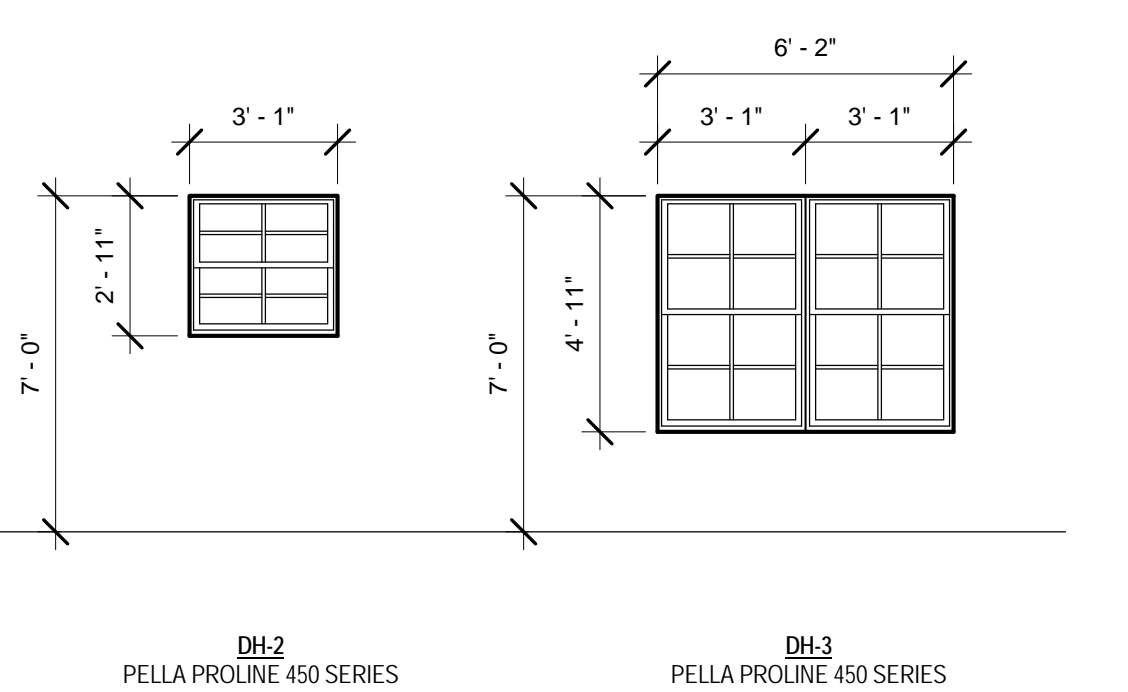
- 1. CONTRACTOR TO PROVIDE DELICATE DESIGN DETAILED HARDWARE. SCHEDULE.
- 2. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT TO DEVELOP DETAILED HARDWARE SCHEDULE.
- 3. PROVIDE HARDWARE ALLOWANCE OF \$300 PER DOOR LEAF.



**DOOR ELEVATIONS
SCALE 1/4" = 1'-0"**



**DOOR FRAME ELEVATIONS
SCALE 1/4" = 1'-0"**



**WINDOW ELEVATIONS
SCALE 1/4" = 1'-0"**