

313	DECORATIVE GRAVEL + BOULDERS	610	ROUGH CARPENTRY	731	SHINGLE ROOFING	862	SKYLIGHT
330	CAST-IN-PLACE CONCRETE	618	GLU-LAM	762	BRAKE METAL	929	PAINTED GYPSUM BOARD
426	BRICK VENEER	620	FINISH CARPENTRY	814	WOOD DOOR	930	TILE
512	STRUCTURAL STEEL	641	ARCHITECTURAL CABINETS	841	ALUMINUM STOREFRONT	968	CARPET FLOORING
550	METAL FABRICATION	725	WATERPROOFING	852	ALUMINUM CLAD WOOD WINDOWS	1236	COUNTERTOPS

SHEET LIST

A0.1.VC	COVERSHEET	S1.0.VC	GENERAL STRUCTURAL NOTES
A1.1.VC	APPENDIX B (VC)	S1.1.VC	FOUNDATION PLAN AT VISITOR CENTER
A1.2.VC	APPENDIX B (VC)	S1.2.VC	PARTIAL ATTIC/CEILING FRAMING PLAN AT VISITOR CENTER
A1.3.VC	LIFE SAFETY PLAN (VC)	S4.1.VC	FOUNDATION DETAILS
		S5.1.VC	FRAMING DETAILS
A2.0.VC	VC EXISTING REFERENCE PLAN	P0.01	PLUMBING LEGENDS & SCHEDULES
A2.1.VC	VC EXISTING PLAN	P1.00	PLUMBING DEMOLITION PLAN
A2.2.VC	VC EXISTING RCP + ROOF PLAN	P2.00	PLUMBING WASTE & VENT NEW WORK PLAN
A2.3.VC	VC DEMO PLAN + DEMO RCP	P2.10	PLUMBING WATER & GAS NEW WORK PLAN
A2.4.VC	VC NEW PLAN		
A2.5.VC	VC NEW RCP	M0.01	MECHANICAL LEGENDS & SCHEDULES
A2.6.VC	VC NEW ROOF PLAN	M1.00	MECHANICAL DEMOLITION PLAN
		M2.00	MECHANICAL NEW WORK PLAN
		M5.00	MECHANICAL DETAILS
A3.1.VC	VC EXISTING ELEVATIONS	E0.01	ELECTRICAL LEGEND
A3.2.VC	VC NEW ELEVATIONS	E0.02	ELECTRICAL GEN. NOTES & FIXTURE SCHEDULE
A3.3.VC	INTERIOR ELEVATIONS	E2.00	ELECTRICAL DEMOLITION PLAN
A3.4.VC	INTERIOR ELEVATIONS + WINDOW ELEVATIONS	E2.01	ELECTRICAL LIGHTING PLAN
		E2.02	ELECTRICAL POWER PLAN
A4.1.VC	VC EXISTING SECTIONS	E5.00	ELECTRICAL DETAILS
A4.2.VC	VC NEW SECTIONS	E5.01	ELECTRICAL DETAILS
A5.1.VC	VISITOR CENTER SECTION DETAILS		
A6.1.VC	VISITOR CENTER PLAN DETAILS		

IMAGE



PROJECT CONTACT

OWNER:
WAKE COUNTY PARKS RECREATION AND OPEN SPACE
3200 PLEASANT UNION CHURCH RD
CONTACT: ERIC STAEHLE
PHONE: 919 856 6369
EMAIL: ERIC.STAEHLE@WAKE.GOV

PRIME/LANDSCAPE ARCHITECT:
SURFACE 678
215 MORRIS STREET, SUITE 150
CONTACT: ERIC DAVIS
PHONE: 919 282 9122
EMAIL: EDAVIS@SURFACE678.COM

ARCHITECT:
IN SITU STUDIO
704 N PERSON STREET, RALEIGH NC 27604
CONTACT: MATT GRIFFITH
PHONE: 919 397 3949
EMAIL: MATT@INSITUSTUDIO.US

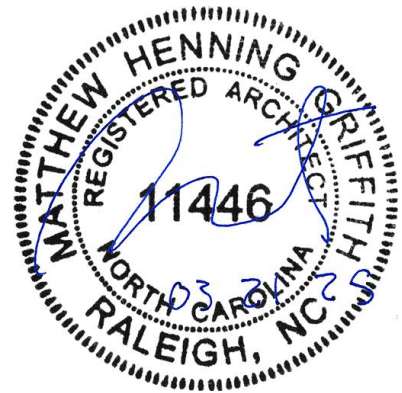
STRUCTURAL ENGINEER:
LYSAGHT & ASSOCIATES
120 ST MARY STREET
CONTACT: CHUCK LYSAGHT
PHONE: 919 833 0495
EMAIL: CHUCK@LYSAGHTASSOCIATES.COM

SYSTEMS ENGINEER:
SIGMA ES
5909 FALLS OF NEUSE RD, SUITE 101
CONTACT: REGGIE ADAMS
PHONE: 919 840 9300
EMAIL: RADAMS@SIGMAES.COM

CIVIL ENGINEER:
THE WOOTEN COMPANY
120 N. BOYLAN AVE
CONTACT: ANA WADSWORTH
PHONE: 919 828 0531
EMAIL: AWADSWORTH@THEWOOTENCOMPANY.COM

ABBREVIATIONS

@	at
AFF	above finish floor
ALUM	aluminum
B0	bottom of
CIP	cast-in-place
CL	centerline
CJ	control/construction joint
CPT	common path of travel
EQ	equal
FFE	finished floor elevation
FIN	finish
F0	face of
GA	gauge
GALV	galvanized
L0D	limits of disturbance
MAX	maximum
MED	maximum egress distance
MIN	minimum
NIC	not in contract
NTS	not to scale
OC	on center
PG	playground
PTD	pointed
REF	reference
REV	reverse
SIM	similar
SF	square feet
SS	stainless steel
TBF	tee-ball field
T0	top of
TPF-SF	tree protection fence silt fence
TYP	typical
UON	unless otherwise noted
VC	visitors center
VIF	verify in field



2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Blue Jay Point County Park Improvements (Visitor Center Alterations)
Address: 3200 Pleasant Union Church Road, Raleigh, NC Zip Code 27614
Owner/Authorized Agent: in situ studio Phone # (919) 397 - 3949 E-Mail matt@insitustudio.us
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City, Raleigh ☒ County, Wake ☒ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	in situ studio	Matthew Griffith	11446	(919)397-3949	matt@insitustudio.us
Civil	The Wooten Company	Ana Wadsworth	042389	(919)818-0531	awadsworth@thewootencompany.com
Electrical	Sigma Engineered Solutions	Reginald Adams	19659	(919)840-9300	radams@sigmas.com
Fire Alarm	Sigma Engineered Solutions	Reginald Adams	19659	(919)840-9300	radams@sigmas.com
Plumbing	Sigma Engineered Solutions	Paul Romiti	026581	(919)840-9300	promiti@sigmas.com
Mechanical	Sigma Engineered Solutions	Paul Romiti	026581	(919)840-9300	promiti@sigmas.com
Sprinkler-Standpipe	NA	NA	NA	NA	NA
Structural	Lysaght & Associates	Chuck Lysaght	7929	(919)833-0495	chuck@lysaghtassociates.com
Retaining Walls >5' High	NA	NA	NA	NA	NA
Landscape Arch.	Surface 678 (Prime)	Eric Davis	C-098	(919)419-1199	edavis@surface678.com

(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☒ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☒ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) 1989 CURRENT OCCUPANCY(S) (Ch. 3): A3
RENOVATED: (date) 2014 (REF. A2.0) PROPOSED OCCUPANCY(S) (Ch. 3): A3

RISK CATEGORY (Table 1604.5):
Current: ☐ I ☒ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☐ III ☐ IV

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes Flood Hazard Area: ☐ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

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Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor	5,761	203	5,964
Basement	1,878	0	1,878
TOTAL	7,639	203	7,842

ALLOWABLE AREA

Primary Occupancy Classification(s):

Assembly ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): NA

Incidental Uses (Table 509): NA

Special Uses (Chapter 4 – List Code Sections): NA

Special Provisions: (Chapter 5 – List Code Sections): NA

Mixed Occupancy: ☒ No ☐ Yes Separation: ____ Hr. Exception: ____

☒ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \dots \leq 1.00$$

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PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30' or greater	UP, NS	unlimited	27%

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☐ No ☒ Yes
Smoke Detection Systems: ☐ No ☒ Yes ☐ Partial ____
Carbon Monoxide Detection: ☐ No ☒ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A1.3

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit sign locations (101.3)
☒ Exit access travel distances (1017)
☒ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☐ Dead end lengths (1020.4)
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ 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 (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

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STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{3,5}
0	Basement	1,878	unchanged	unchanged	unchanged
1	Main Level	5,964	6,000	0.75	10,500

¹ Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = $.362' \cdot 10' (F)$
b. Total Building Perimeter = $.362' \cdot 10' (P)$
c. Ratio $(F/P) = \frac{1}{1} (F/P)$
d. $W =$ Minimum width of public way = $\geq 30'$ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 = \frac{75}{75} (\%)$

² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²	unchanged	unchanged	NA
Building Height in Stories (Table 504.4) ³	unchanged	unchanged	NA

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

² The maximum height of air traffic control towers must comply with Table 412.3.1.

³ The maximum height of open parking garages must comply with Table 406.5.4.

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ACCESSIBLE DWELLING UNITS (SECTION 1107)	
NA	

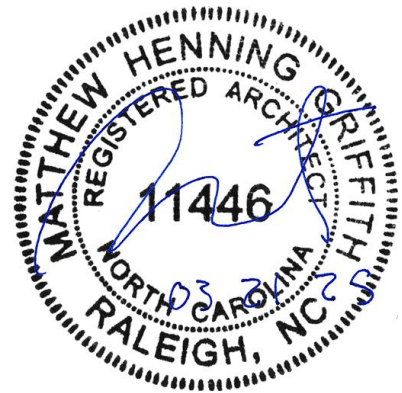
ACCESSIBLE PARKING (SECTION 1106)	
REFER TO LANDSCAPE DRAWINGS FOR PARKING REQUIREMENTS	

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)	
USE	
SPACE	EXIST'G
	NEW
	REQ'D
ADDED SF DOES NOT REQUIRE NEW FIXTURES	

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

NA



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in situ studio

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Raleigh NC 27604
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Surface 678 (prime)
The Wooten Company
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Sigma Engineered Solutions

LA
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PME

Consultants

CD

03.21.25
KW + JF
not to scale

BLUE JAY POINT COUNTY PARK
3200 PLEASANT UNION CHURCH RD
RALEIGH, NC 27614

APPENDIX B (VC)

A1.1.VC

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 for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☒ Yes (The remainder of this section is not applicable)

Exempt Building: ☒ No ☐ Yes (Provide code or statutory reference): _____

Climate Zone: ☐ 3A ☒ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☒ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here) _____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)small addition matches or exceeds existing, described below:
Description of assembly: 5/8" gyp bd, 10" ceiling batts, ov. 12" airspace, 3/4" deck, 30 lb. felt, 3/4" asph. shingles
U-Value of total assembly: 1.7 (0.56 + 34.00 + 3.46 + 0.94 + 0.25 + 0.44) = 0.025
R-Value of insulation: 34.00
Skylights in each assembly: existing
U-Value of skylight: existing
total square footage of skylights in each assembly: existing

Exterior Walls (each assembly)small addition matches or exceeds existing, described below:
Description of assembly: 5/8" gyp bd, 3 1/2" batts, 1/2" sheathing, 30 lb. felt, 3/4" wd siding
U-Value of total assembly: 1.7 (0.56 + 11.90 + 0.62 + 0.25 + 0.94) = 0.070
R-Value of insulation: 11.90
Openings (windows or doors with glazing)
U-Value of assembly: 0.29
Solar heat gain coefficient: 0.27
projection factor: between 0.33 and 0.67
Door R-Values: 0.59

Walls below grade (each assembly)
Description of assembly: no change to existing conditions
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)small addition matches or exceeds existing, described below:
Description of assembly: 15 mil VP, 3" polystyrene, 8" CMU, 4" brick
U-Value of total assembly: 0.080
R-Value of insulation: 10.0

Floors slab on grade
Description of assembly: NA
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

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2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (Is) 1.0
Seismic (Ie) 1.0

Live Loads: Roof 20 psf
Mezzanine NA psf
Floor 50 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 115 mph (ASCE-7)
Exposure Category 1.0

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D

Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration Ss 14.7 %g Si 7.4 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic structural system ☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☒ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity 2,000 psf
Pile size, type, and capacity _____

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2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN

(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 14° F
summer dry bulb: 94° F

Interior design conditions
winter dry bulb: 70° F
summer dry bulb: 75° F
relative humidity: 45%

Building heating load: EXISTING

Building cooling load: EXISTING

Mechanical Spacing Conditioning System
Unitary
description of unit: Split System Heat Pumps (EXISTING)
heating efficiency: EXISTING
cooling efficiency: EXISTING
size category of unit: EXISTING
Boiler
Size category. If oversized, state reason.: NA
Chiller
Size category. If oversized, state reason.: NA
List equipment efficiencies: EXISTING

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2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☒ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

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A1.2.VC

APPENDIX B (VC)

BLUE JAY POINT COUNTY PARK
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not to scale

CD

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Sigma Engineered Solutions

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www.institutudio.us

in situ studio

VISITOR CENTER ALTERATION PARTIAL LIFE SAFETY SUMMARY

EXISTING BUILDING: A-3 Assembly, Type VB Construction, (1) floor @ 5,761 SF w/ a 1,878 SF basement.

ADDITION: 203 new SF of Business use. New area does not increase egress load to rest of building because of exterior exits (one new).

EGRESS AREAS: Area A Office Suite Total Occupancy 10 Single Exit to Exterior
Area B Classroom Total Occupancy 28 Single Exit to Exterior

Egress Area A: Spaces with one exit = max 49 occupants
Occupant load = 10
Required exit width = 2.0"
Exit width provided = 36" (72" w/ interior door)
Max egress distance = 200'-0"
Actual egress distance = 86'-0"
Max CPT = 75'-0"
Actual CPT = 42'-11"

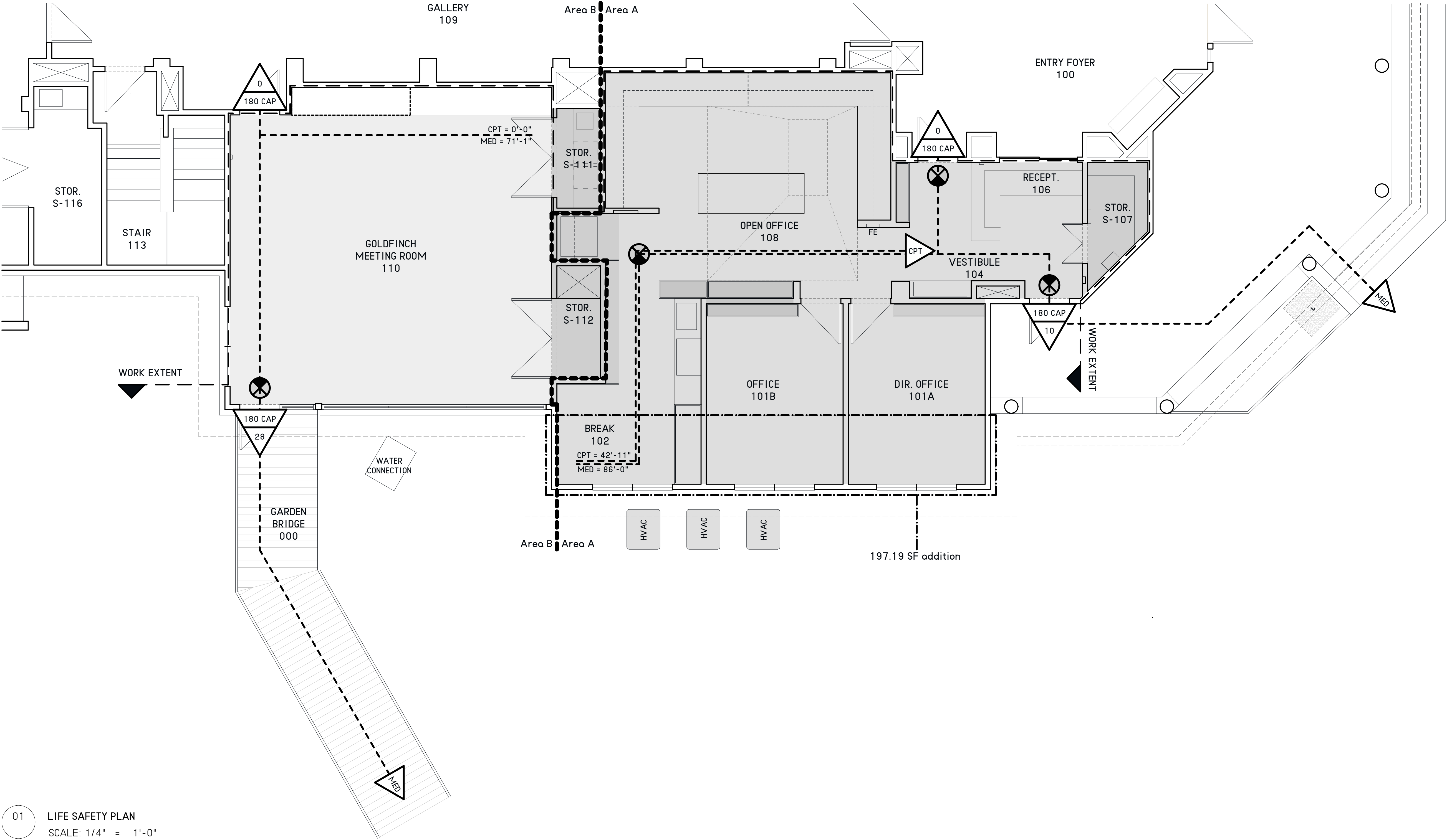
Egress Area B: Spaces with one exit = max 49 occupants
Occupant load = 28
Required exit width = 5.6"
Exit width provided = 36" (72" w/ interior door)
Max egress distance = 200'-0"
Actual egress distance = 71'-1"
Max CPT = 75'-0"
Actual CPT = 0'-0"

INTERIOR OCCUPANCY

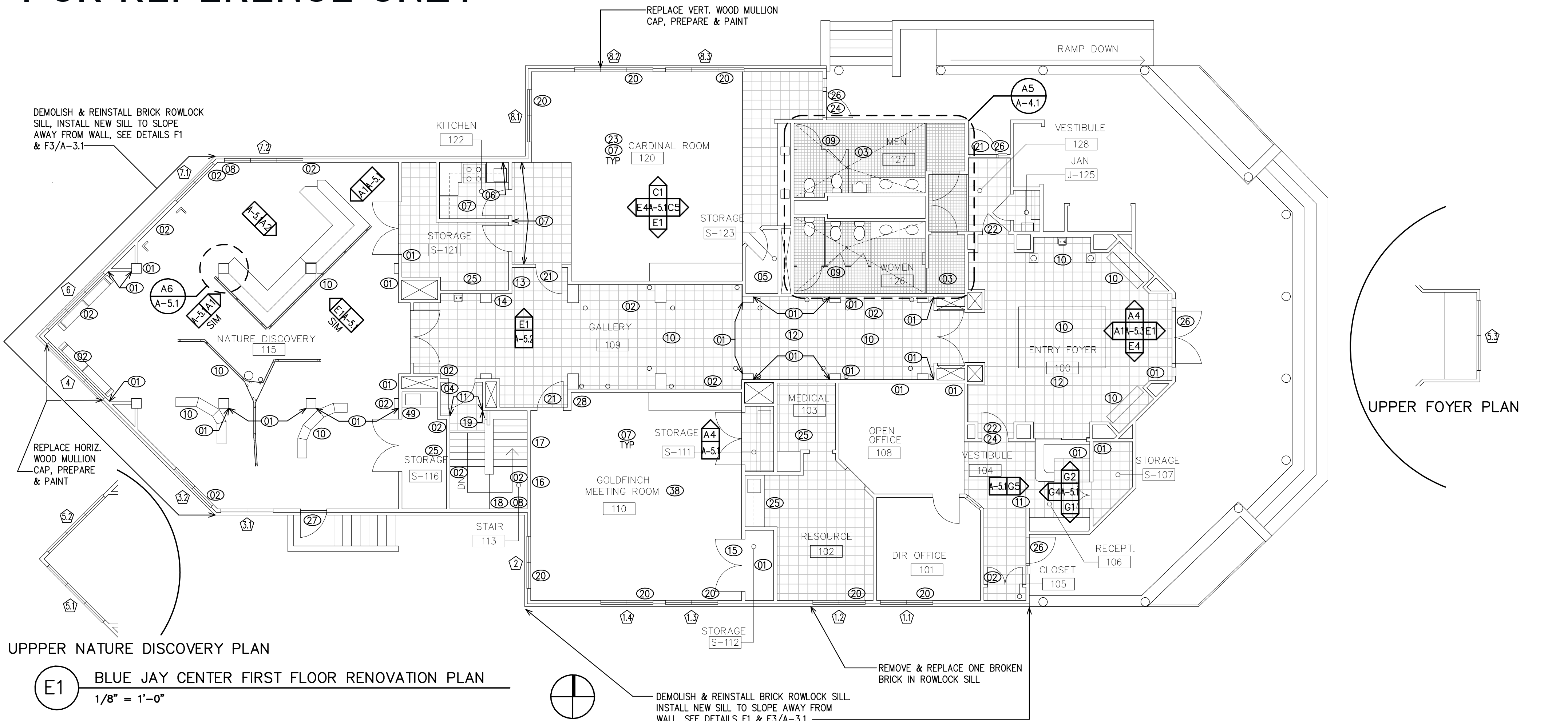
USE	Area A SF	Area A OCC	Area B SF	Area B OCC
EDUCATION (20 NET)	0 SF	0	526 SF	27
BUSINESS (100 GROSS)	899 SF	9	0 SF	0
STORAGE (300 GROSS)	96 SF	1	65 SF	1
TOTAL	999 SF	10	624 SF	28

EXIT SIGN

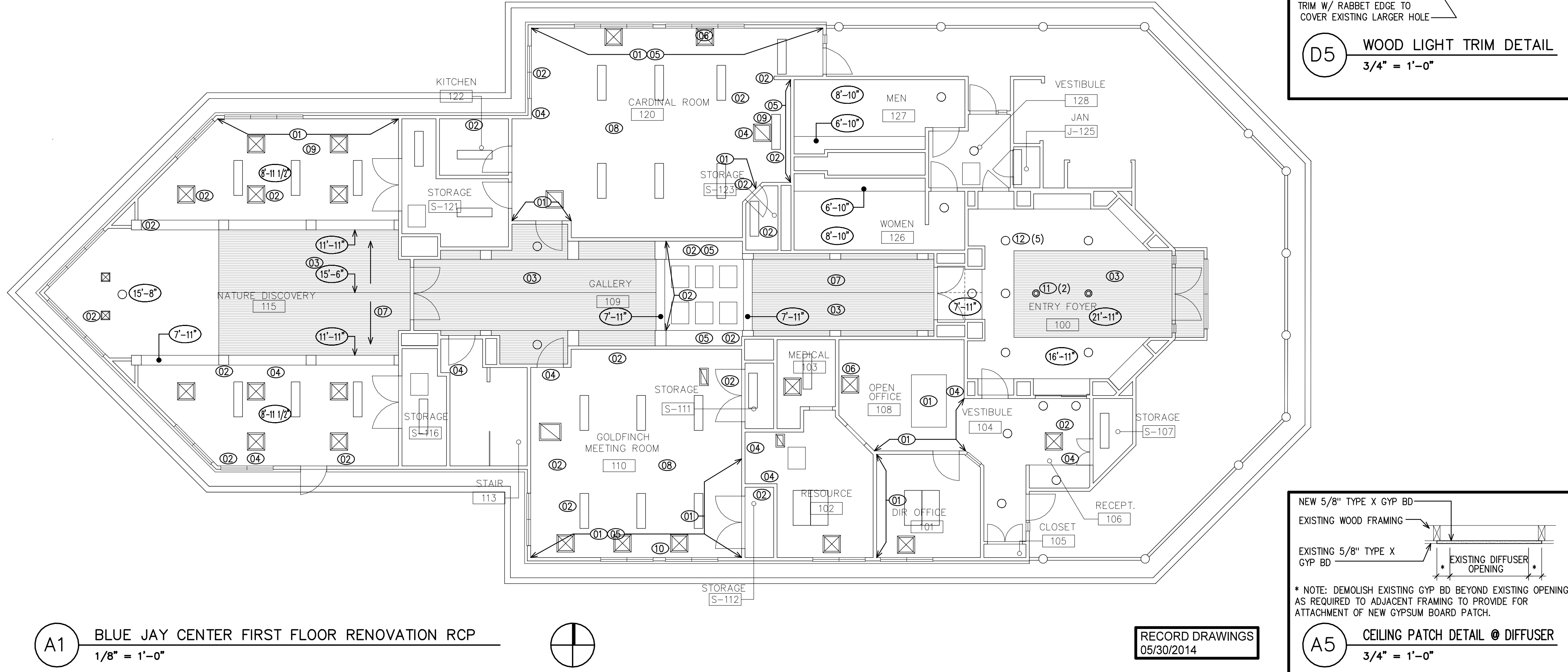
DOOR TAG



FOR REFERENCE ONLY

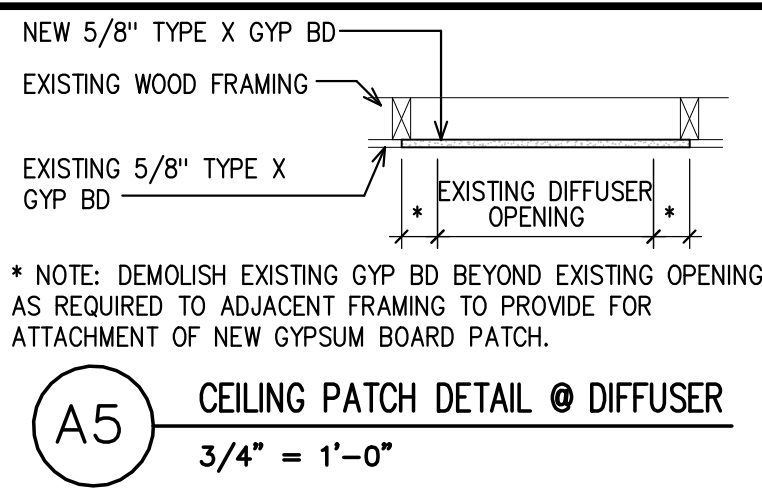
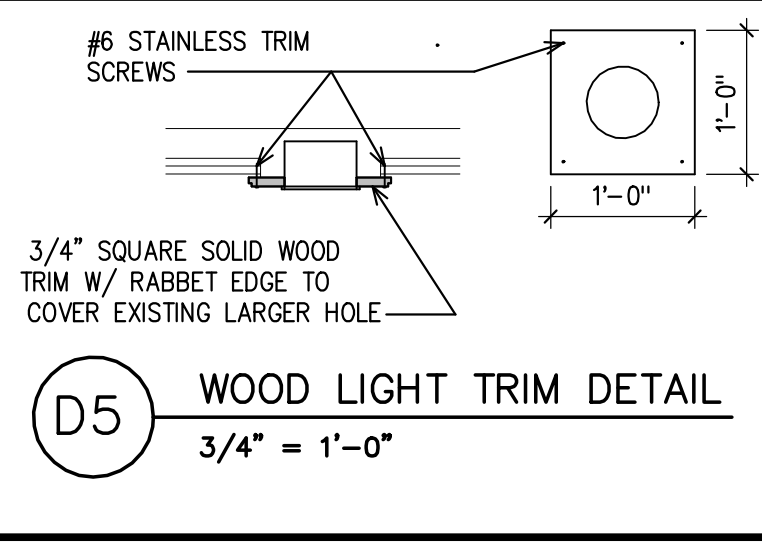


UPPPER NATURE DISCOVERY PLAN
BLUE JAY CENTER FIRST FLOOR RENOVATION PLAN
1/8" = 1'-0"



BLUE JAY CENTER FIRST FLOOR RENOVATION RCP
1/8" = 1'-0"

RECORD DRAWINGS
05/30/2014



RENOVATION PLAN & RCP GENERAL NOTES:

- SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- TOTAL ALLOWANCES FOR GWB WALL AND CEILING REPAIRS INCLUDE LOCATIONS NOTED ON PLANS BY KEY NOTES AND ADDITIONAL LOCATIONS. SEE SPECIFICATION SECTION 012100 ALLOWANCES FOR ADDITIONAL REQUIREMENTS.
- INSTALL SEALANT AT JOINT BETWEEN WAINSCOT TRIM & GWB.
- INSTALL NEW FLOOR UNDERLAYMENT & VAPOR BARRIER THROUGHOUT FIRST FLOOR, 3/4" THICKNESS.
- INSTALL WOOD TOE MOLDING THROUGHOUT FIRST FLOOR, TYPICAL, IN BLUE JAY CENTER & LODGE.
- INTERIOR SIGNAGE WILL BE REMOVED BY CONTRACTOR & REINSTALLED BY OWNER.
- INSTALL NEW INTERIOR WOOD WINDOW SILLS & FINISH TO MATCH EXISTING, TYPICAL, IN BLUE JAY CENTER & LODGE. BJC SILLS RECEIVE A CLEAR FINISH. LODGE SILLS RECEIVE PAINT.
- UNDERCUT ALL INTERIOR WOOD DOORS BY 1/2" TO 3/4" MAX; REMOVE KICK PLATES & REINSTALL; PATCH SCREEN HOLES, TYPICAL IN BLUE JAY CENTER & LODGE.
- EXISTING FIRE EXTINGUISHERS AND CABINETS ARE EXISTING TO REMAIN.
- NEW GYPSUM BOARD SHALL MATCH EXISTING GYPSUM BOARD TYPE AND THICKNESS. BLUE JAY CENTER EXISTING GYPSUM BOARD WAS NOTED IN ORIGINAL CONSTRUCTION DOCUMENTS AS "ALL GWB TO BE 5/8", TYPE "X".
- PAINT EXTERIOR HOLLOW METAL DOORS AND FRAMES IN BLUE JAY CENTER AND LODGE.

RENOVATION PLAN KEY NOTES:

- NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND IN THE DRAWINGS. SEE PLAN FOR KEYED ITEM LOCATIONS. SEE SELECTIVE RENOVATION GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- REPAIR NAIL/SCREW POPS, MULTIPLE LOCATIONS; SKIM COAT ENTIRE WALL. SEE A6/A-3.1 FOR ADDITIONAL REQUIREMENTS.
 - PATCH AT NAIL/SCREW PO. SEE A6/A-3.1 FOR ADDITIONAL REQUIREMENTS.
 - INSTALL FLOOR TILE, TILE BASE & MARBLE THRESHOLDS OVER NEW MUD BED. ADJUST FLOOR DRAIN ELEVATIONS. SEE ENLARGED PLANS FOR ADDITIONAL REQUIREMENTS.
 - INSTALL NEW GWB TAPE (SPOT REPAIR)
 - INSTALL NEW GWB TAPE, FULL LENGTH OF SEAM
 - PATCH GWB WHERE GWB WAS REMOVED BY OWNER
 - PREPARE WALLS FOR PAINT WHERE WALL COVERING WAS REMOVED
 - PATCH HOLE IN GWB
 - REINSTALL EXISTING TOILET PARTITIONS
 - REMOVE, STORE & REINSTALL ALL EXHIBIT DISPLAYS IN ENTRY FOYER, GALLERY AND NATURE DISCOVERY ROOM. GENERAL CONTRACTOR WILL MANAGE & COORDINATE ALL EXHIBIT DISPLAY ACTIVITIES WITH EXHIBIT SUBCONTRACTOR & OWNER.
 - PATCH CRACKING AT CORNER BEAD
 - REFINISH WOOD BEAD BOARD WALL PANELS, BASE BOARD, DOOR, WINDOW & WALL TRIM, TYPICAL, IN ENTRY FOYER & GALLERY. SEE INTERIOR ELEVATIONS FOR ADDITIONAL REQUIREMENTS.
 - PATCH GWB WALL OPENING WHERE MECHANICAL GRILLE IS REMOVED & INSTALL NEW BEAD BOARD WALL PANEL TO MATCH EXISTING
 - PATCH GWB WALL WHERE THERMOSTAT IS REMOVED & INSTALL NEW BEAD BOARD WALL PANEL TO MATCH EXISTING
 - ADJUST DOOR LEAF TO HANG SQUARE WITHIN FRAME
 - REINSTALL PROJECTION SCREEN
 - INSTALL (12) NEW WALL HOOKS, WHITE FINISH
 - INSTALL WALL STOP FOR GATE, 2 1/2" DIA. CONCAVE WALL STOP, BRUSHED STAINLESS STEEL FINISH
 - INSTALL 48" TALL CORNERGUARD, 3" WIDE WITH SNAP ON COVER, ACRYLYN SM-20N OR APPROVED EQUAL.
 - INSTALL NEW WINDOW BLINDS
 - CUT LEVER HARDWARE RETURN BY 1/4"-1/2"ON EACH SIDE. SAND & STAIN CHIPPED DOOR LITE TRIM. PATCH DAMAGED DOOR SURFACE ON CLASSROOM SIDE.
 - CUT LEVER HARDWARE RETURN BY 1/4"-1/2"ON EACH SIDE. SAND & STAIN CHIPPED DOOR LITE TRIM.
 - REFINISH WOOD BASE & TRIM, TYPICAL, IN CARDINAL ROOM. SEE INTERIOR ELEVATIONS FOR ADDITIONAL REQUIREMENTS.
 - REFINISH WOOD DOOR TRIM
 - ADJUST EXISTING CASEWORK DOORS
 - REPLACE THRESHOLD & MODIFY EXTERIOR DECK BOARDS, SEE C3/A-3.1
 - REPLACE THRESHOLD, SEE A3/A-3.1 FOR ADDITIONAL REQUIREMENTS
 - REINSTALL TELEPHONE

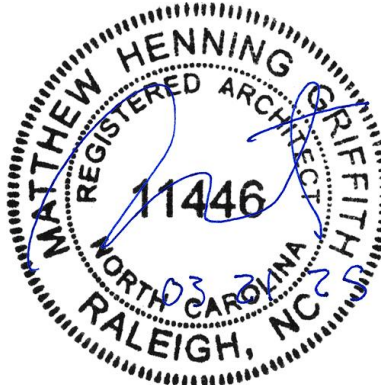
EXTERIOR RENOVATION PLAN KEY NOTES:

- NOTE: EACH ASSEMBLY LOCATED ON PLANS REFERENCES ONE OR MORE EXTERIOR KEY NOTES.
- AT EACH OPERABLE SASH, REMOVE EXISTING OPERATING HARDWARE AND SEAL SASH SHUT. SASH HINGES TO REMAIN. REMOVE INTERIOR WOOD HARDWARE COVER AND INSTALL NEW COVER AS INDICATED, SEE DETAILS F5 & F7/A-3.1. INSTALL ONE STAINLESS STEEL TRIM SCREW AT EACH LOWER CORNER OF SASH ANGLED THROUGH SASH INTO FRAME WITH MINIMUM PENETRATION. PATCH HOLE IN SASH BEFORE FINISHING.
 - PREPARE AND REPAINT LOWER WINDOW SASHES
 - PREPARE AND REPAINT ENTIRE WINDOW ASSEMBLY INCLUDING FRAME, TRIM, SASHES (ALL COMPONENTS CURRENTLY TEAL COLOR)
 - PREPARE AND PAINT EXISTING EXTERIOR WOOD SILL. REMOVE SEALANT UNDER SILL AND RESEAL.
 - RESHAPE, PREPARE AND REPAINT EXISTING EXTERIOR WOOD SILL. REMOVE EXISTING SEALANT UNDER SILL AND RESEAL. RESHAPE TOP SURFACE OF SILL TO ACHIEVE SLOPE AWAY FROM WINDOW. SEE DETAIL F7/A-3.1.
 - AT EACH OPERABLE SASH, REMOVE SURFACE APPLIED WOOD STOP AT BOTTOM EDGE OF OPERABLE SASHES. PATCH REMAINING HOLES.
 - DEMOLISH SASH AND INSTALL NEW SASH. PREPARE AND PAINT. SASH IS DENOTED BY (L), (C) OR (R) INDICATING THE POSITION OF THE SASH AS VIEWED FROM THE EXTERIOR.

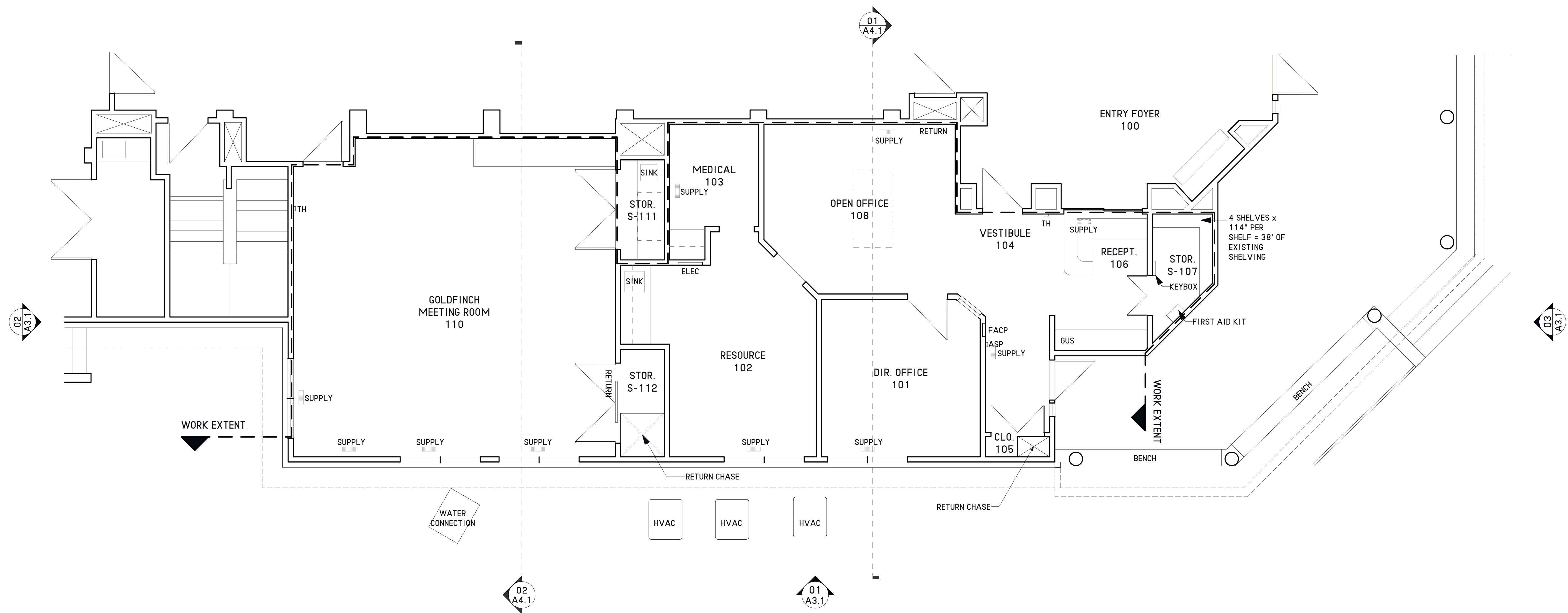
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

REFLECTED CEILING PLAN KEY NOTES:

- NOTE: KEY NOTES SUPPLEMENT INFORMATION FOUND IN THE DRAWINGS. SEE PLAN FOR KEYED ITEM LOCATIONS. SEE SELECTIVE REFLECTED CEILING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- REPAIR NAIL/SCREW POPS, FULL LENGTH OF WALL. SEE A6/A-3.1 FOR ADDITIONAL REQUIREMENTS.
 - REPAIR NAIL/SCREW POP. SEE A6/A-3.1 FOR ADDITIONAL REQUIREMENTS.
 - REFINISH WOOD BEAD BOARD CEILING PANELS, TYPICAL, IN ENTRY FOYER, GALLERY & NATURE DISCOVERY ROOM.
 - INSTALL NEW GWB TAPE (SPOT REPAIR)
 - INSTALL NEW GWB TAPE, FULL LENGTH OF WALL
 - CLEAN STAIN FROM CEILING
 - FILL HOLES IN WOOD PANELING (1/2" - 1" DI)
 - PATCH OPENING IN GWB WHERE MECHANICAL CONTRACTOR SHALL ASSUME A TOTAL OF TWO LOCATIONS. REFER TO A5/A-1.2.
 - REINSTALL PROJECTION SCREEN
 - PATCH GWB WHERE DAMAGED GWB HAS BEEN
 - SEE DETAIL D5/A-1.2 FOR WOOD TRIM AT NE
 - PATCH GWB AROUND NEW LIGHT FIXTURE WHERE DEMOLISHED LIGHT FIXTURE WAS REMOVED



REF drawings P1.00, M1.00, and E2.00 for existing systems information and systems demolition.



Existing drawings have been created using original design drawings and field measurements. Notify architect of any discrepancies between design dimensions and field conditions.

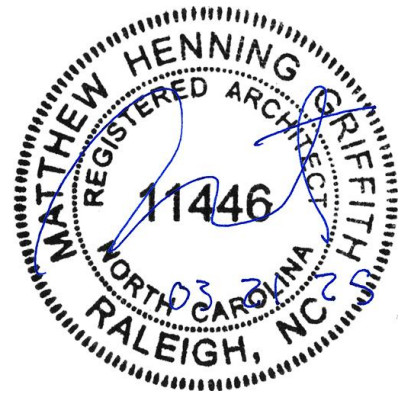
01 VC EXISTING PLAN
SCALE: 1/4" = 1'-0"

EXISTING FINISH SCHEDULE						
ROOM	ROOM NAME	FLOOR	BASE TRIM	WALL	CEILING	CEILING HT
101	dir. office	carpet	wd	ptd gyp bd	ptd gyp bd	9'-0"
102	resource	linoleum	rubber	ptd gyp bd	ptd gyp bd	9'-0"
103	medical	linoleum	rubber	ptd gyp bd	ptd gyp bd	9'-0"
104	vestibule	linoleum	wd	ptd gyp bd	ptd gyp bd	9'-0"
105	closet	linoleum	rubber	ptd gyp bd	ptd gyp bd	9'-0"
106	reception	linoleum	wd	ptd gyp bd	ptd gyp bd	9'-0"
S-107	storage	linoleum	rubber	ptd gyp bd	ptd gyp bd, skylight	9'-0"
108	open office	carpet	wd	ptd gyp bd	ptd gyp bd	9'-0"
110	goldfinch mtg rm	carpet	wd	ptd gyp bd	ptd gyp bd	9'-0"
S-111	storage	linoleum	wd	ptd gyp bd	ptd gyp bd	9'-0"
S-112	storage	linoleum	wd	ptd gyp bd	ptd gyp bd	9'-0"



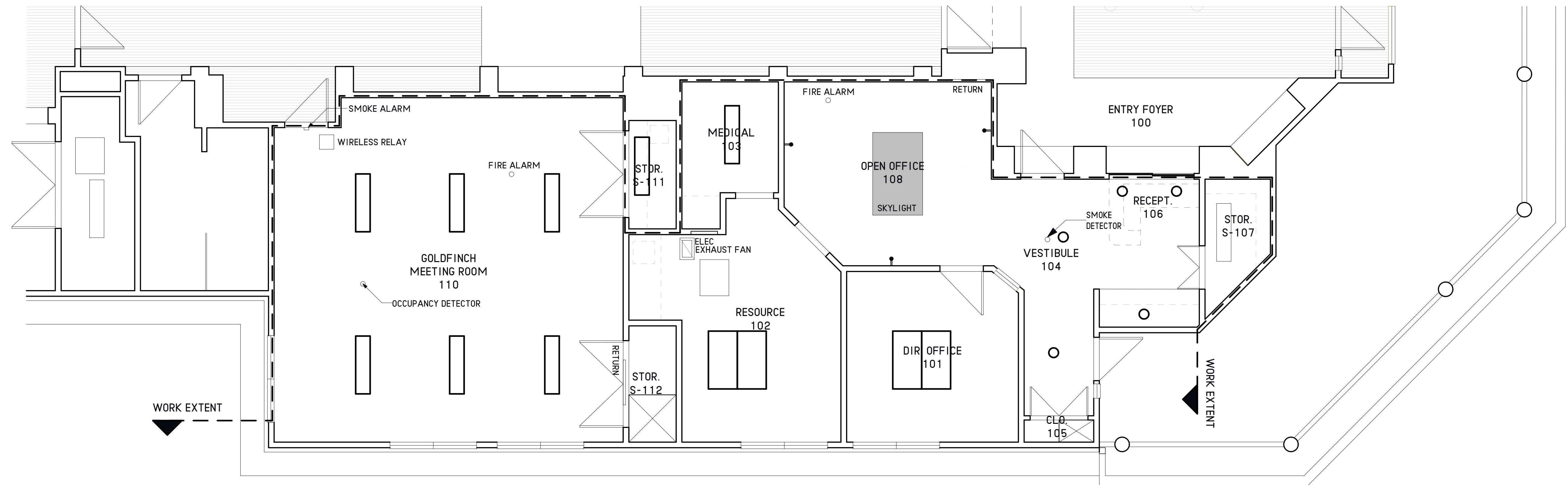
The existing park center is a wood-framed building with a CMU foundation, a crawlspace and partial basement, an exterior brick base, wood siding above, aluminum-clad wood windows, 2'-3' eave overhangs, hipped roof geometry, and asphalt shingle roofing.


All renovations utilize similar construction methods as the existing building.




Architectural drawing of a roof plan. The drawing shows a large rectangular area with a diagonal line indicating a roof slope of 6:12. A smaller rectangular area on the left is also labeled 6:12. A central rectangular area is labeled "existing skylight to remain" and contains a hexagon with the letter "S". Above this area, three small squares are labeled "existing skylights to remain". A gutter and existing downspout are indicated at the bottom right corner. The drawing is titled "Single roofing to remain." and "Existing P1.00, M1.00, and E2.00 for existing systems on and systems demolition."

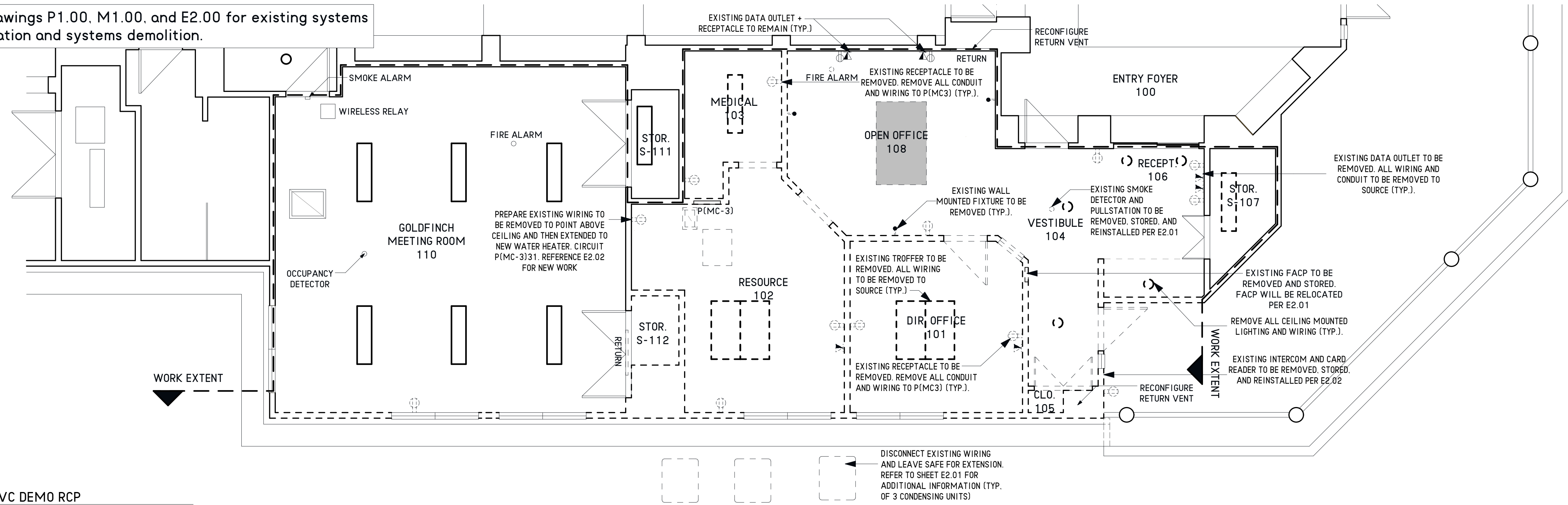
02 VC EXISTING ROOF PLAN
SCALE: 1/4" = 1'-0"



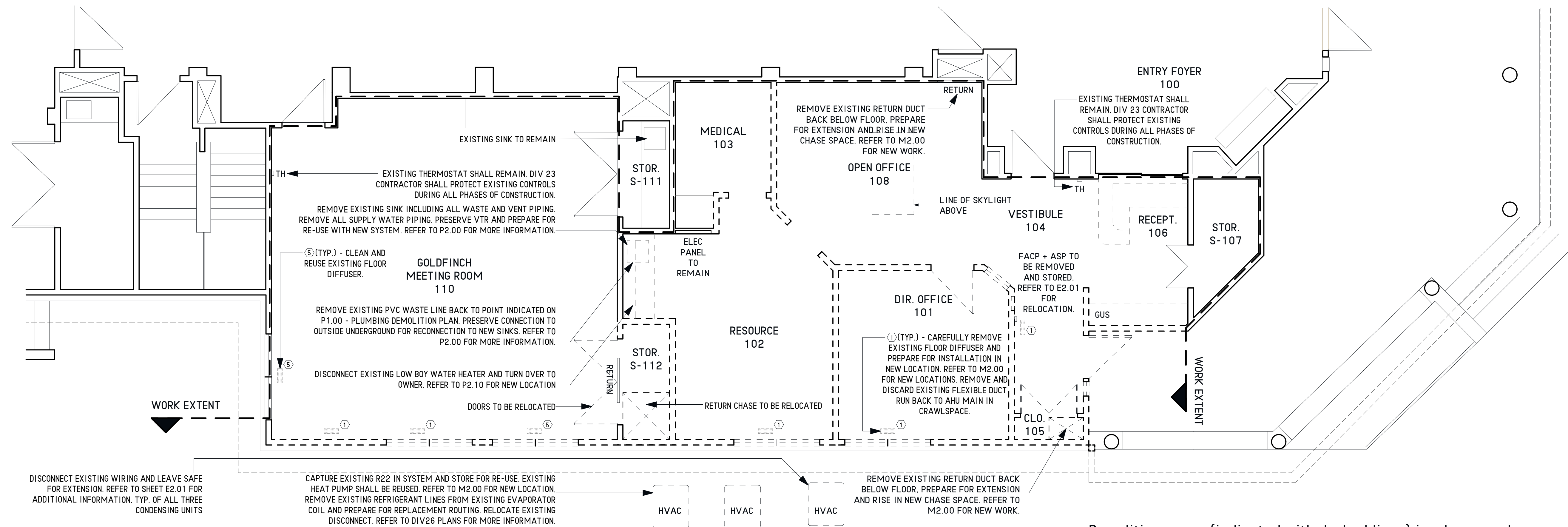
 skylight

 surface-mounted ceiling light

REF drawings P1.00, M1.00, and E2.00 for existing systems information and systems demolition.



02 VC DEMO RCP
SCALE: 1/4" = 1'-0"



DISCONNECT EXISTING WIRING AND LEAVE SAFE FOR EXTENSION. REFER TO SHEET E2.01 FOR ADDITIONAL INFORMATION. TYP. OF ALL THREE CONDENSING UNITS

CAPTURE EXISTING R22 IN SYSTEM AND STORE FOR RE-USE. EXISTING HEAT PUMP SHALL BE REUSED. REFER TO M2.00 FOR NEW LOCATION. REMOVE EXISTING REFRIGERANT LINES FROM EXISTING EVAPORATOR COIL AND PREPARE FOR REPLACEMENT ROUTING. RELOCATE EXISTING DISCONNECT. REFER TO DIV26 PLANS FOR MORE INFORMATION.

REMOVE EXISTING RETURN DUCT BACK BELOW FLOOR. PREPARE FOR EXTENSION AND RISE IN NEW CHASE SPACE. REFER TO M2.00 FOR NEW WORK.

Demolition scope (indicated with dashed lines) involves nearly complete demolition of non-load-bearing partition walls in the staff office suite, demolition of large portions of the south exterior wall and windows, and relocation of the FACP and two return chases. The only structural demolition occurs at the south wall, which will need to be temporarily supported while the structure is reconfigured. Trusses will be modified in the office suite to vault the ceiling.

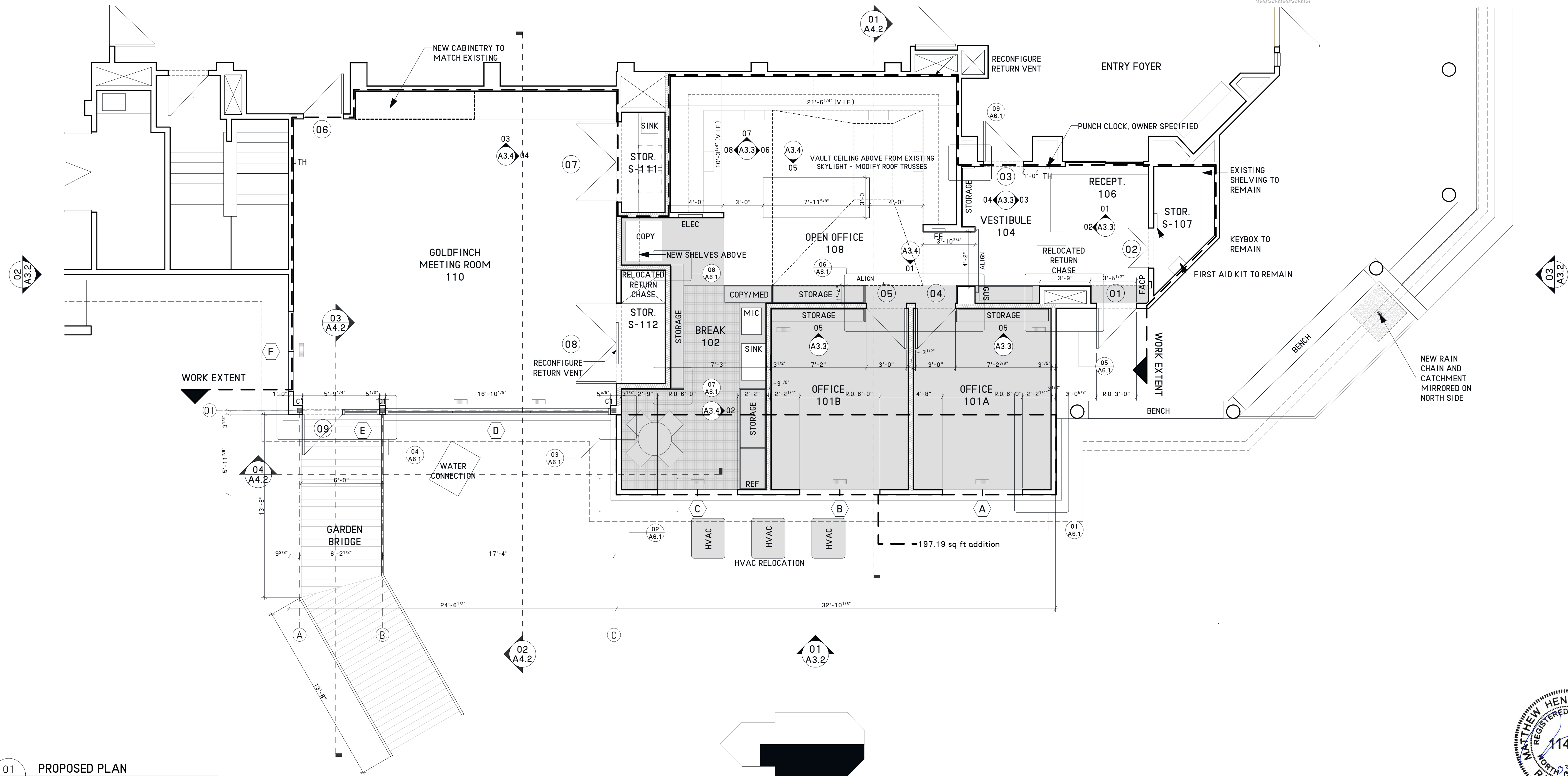


— existing to remain
- - - existing to demolish

EXISTING RCP LEGEND
skylight
surface-mounted ceiling light
existing can light
sconce
device

PARTIAL PLAN

01 VC DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

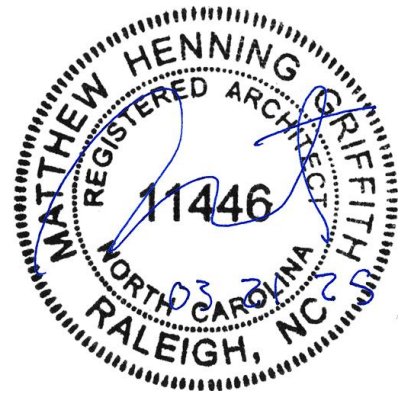
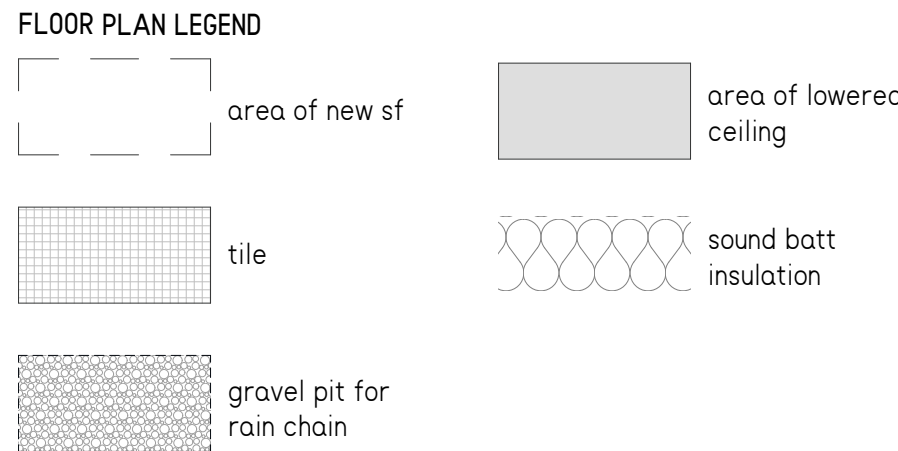


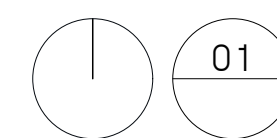
PARTIAL PLAN

DOOR SCHEDULE										
ID	TYPE	WIDTH	HEIGHT	DOOR	FRAME	FACE	CORE	THICK	HDWE	NOTES
01	outswing	3'-0"	7'-0"	clad	clad	glass	-	1 3/4"	latch + lock	aluminum clad wood door by window manufacturer
02	double	3'-0"	7'-0"	exist	exist	exist	-	1 3/8"	dummy	existing to remain
03	single	3'-0"	7'-0"	exist	exist	exist	-	1 3/8"	latch + lock	existing to remain
04	single	3'-0"	8'-0"	wd	wd	flush wd	solid	1 3/8"	latch + lock	new
05	single	3'-0"	8'-0"	wd	wd	flush wd	solid	1 3/8"	latch + lock	new
06	single	3'-0"	7'-0"	exist	exist	exist	-	1 3/8"	latch + lock	existing to remain
07	double	6'-0"	7'-0"	exist	exist	exist	-	1 3/8"	dummy	existing to remain
08	double	6'-0"	7'-0"	exist	exist	exist	-	1 3/8"	lock	existing, relocated
09	outswing	3'-0"	7'-10"	alum	alum	glass	-	1 3/8"	latch + lock	aluminum clad wood door by window manufactured w/ ADA sill

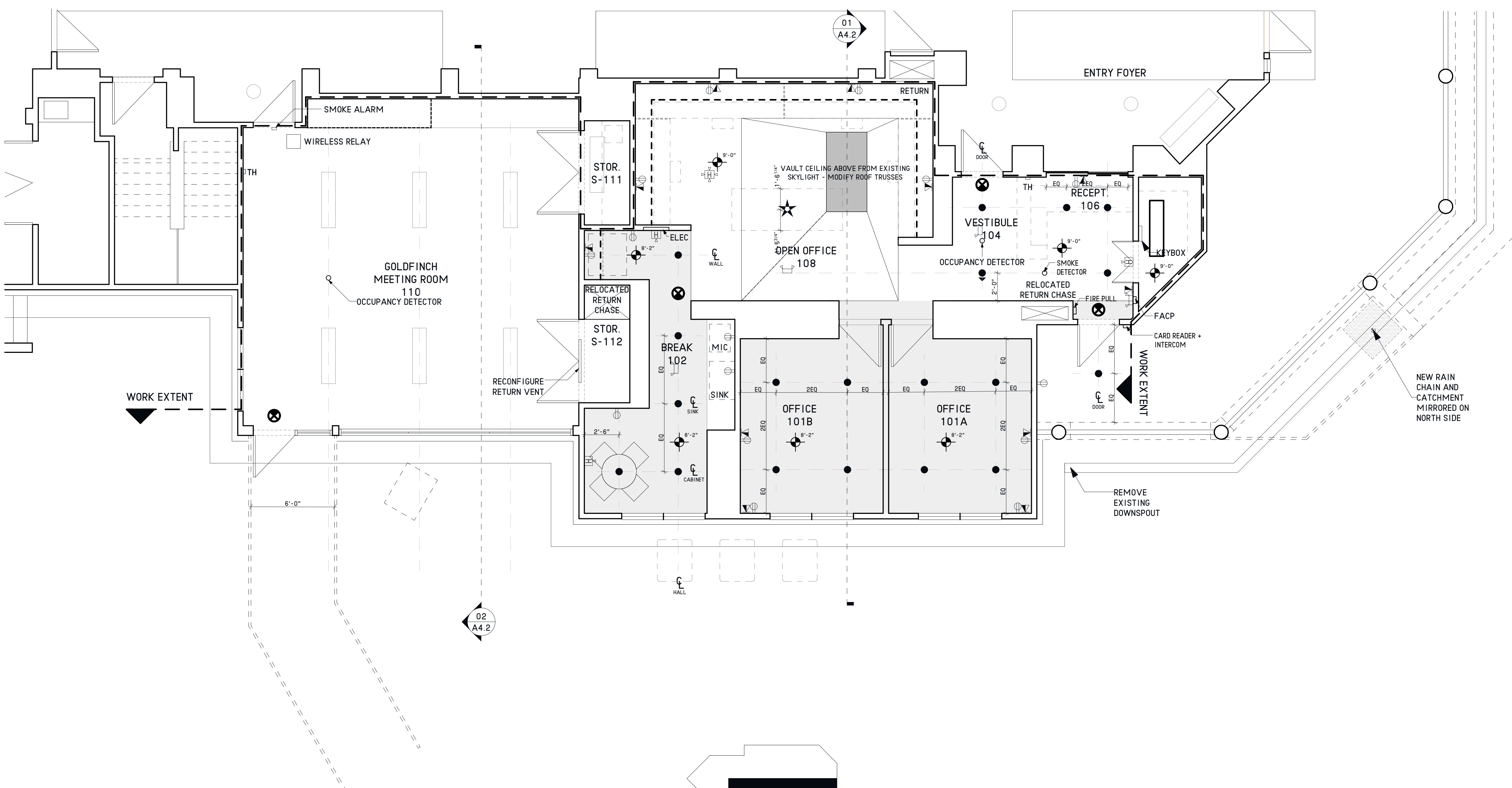
DIMENSIONS ARE TO ROUGH OPENINGS (R.O.) UNLESS OTHERWISE NOTED

FINISH SCHEDULE								
ROOM	ROOM NAME	FLOOR	BASE TRIM	WALL	CEILING	CEILING HT	AREA (SQFT)	NOTES
101A	office	carpet	ptd wd	ptd gyp bd, millwork, window	ptd gyp bd	8'-2"	139.19	replace all finishes
101B	office	carpet	ptd wd	ptd gyp bd, millwork, window	ptd gyp bd	8'-2"	139.19	replace all finishes
102	break	tile	tile	ptd gyp bd, millwork, window, tile	ptd gyp bd	8'-2"	149.08	replace all finishes
104	vestibule	carpet	ptd wd	ptd gyp bd, millwork	ptd gyp bd	9'-0"	56.01	replace all finishes
106	reception	carpet	ptd wd	ptd gyp bd, millwork	ptd gyp bd	9'-0"	79.96	replace all finishes
S-107	storage	carpet	ptd wd	ptd gyp bd, existing shelves	ptd gyp bd	9'-0"	33.58	existing shelves to remain
108	open office	carpet	ptd wd	ptd gyp bd, millwork	ptd gyp bd, skylight	varies	351.84	replace all finishes, vaulted ceiling
110	goldfinch mtg rm	carpet	ptd wd	ptd gyp bd, windows	ptd gyp bd	9'-0"	565.48	replace all finishes
S-111	storage	carpet	ptd wd	ptd gyp bd, millwork	ptd gyp bd	9'-0"	24.51	existing cabinets to remain
S-112	storage	carpet	ptd wd	ptd gyp bd	ptd gyp bd	9'-0"	19.62	replace all finishes





PROPOSED RCP
SCALE: 1/4" = 1'-0"



PARTIAL PLAN

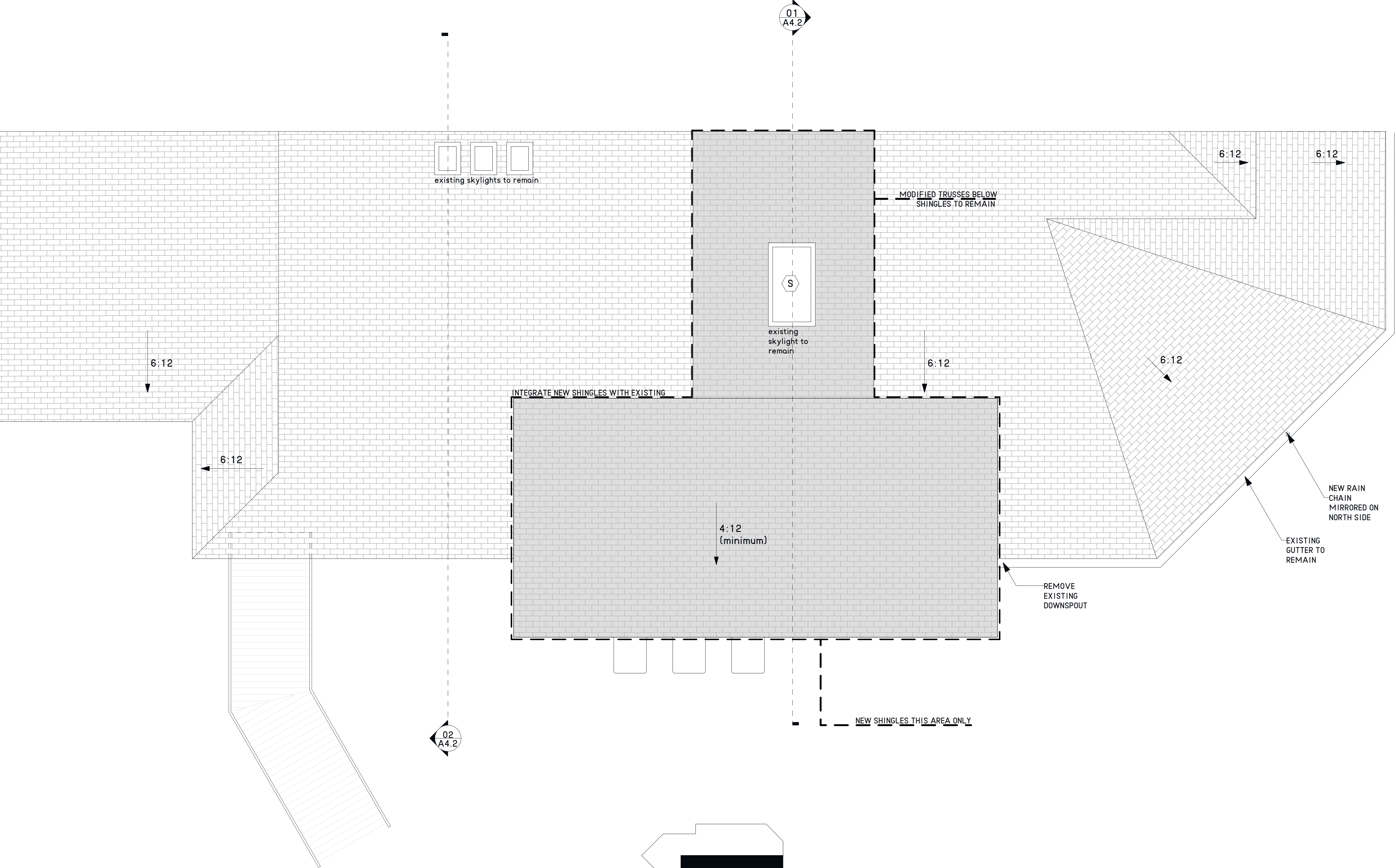
RCP LEGEND

- skylight
- area of lowered ceiling
- LED strip
- 6" can light
- existing fixture to remain
- new surface mounted light

- fire alarm a/v
- device in ceiling
- exit sign
- emergency light
- gimbal can light
- receptacle
- data outlet
- pendant light

Areas of lower ceiling obscure new structure required over break and offices areas.





PARTIAL PLAN

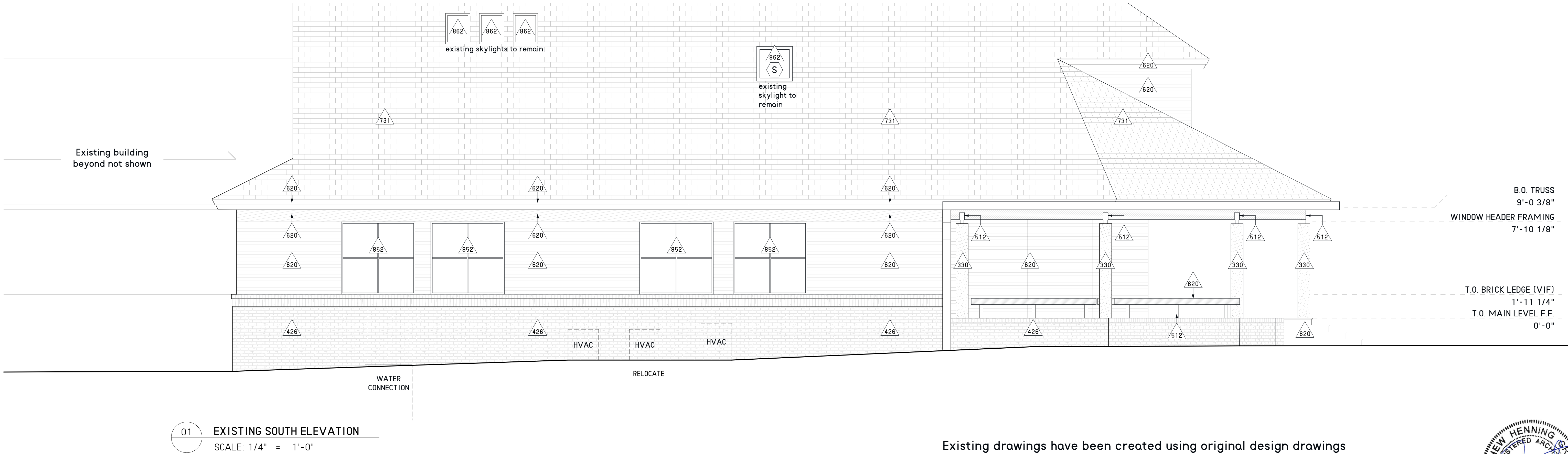
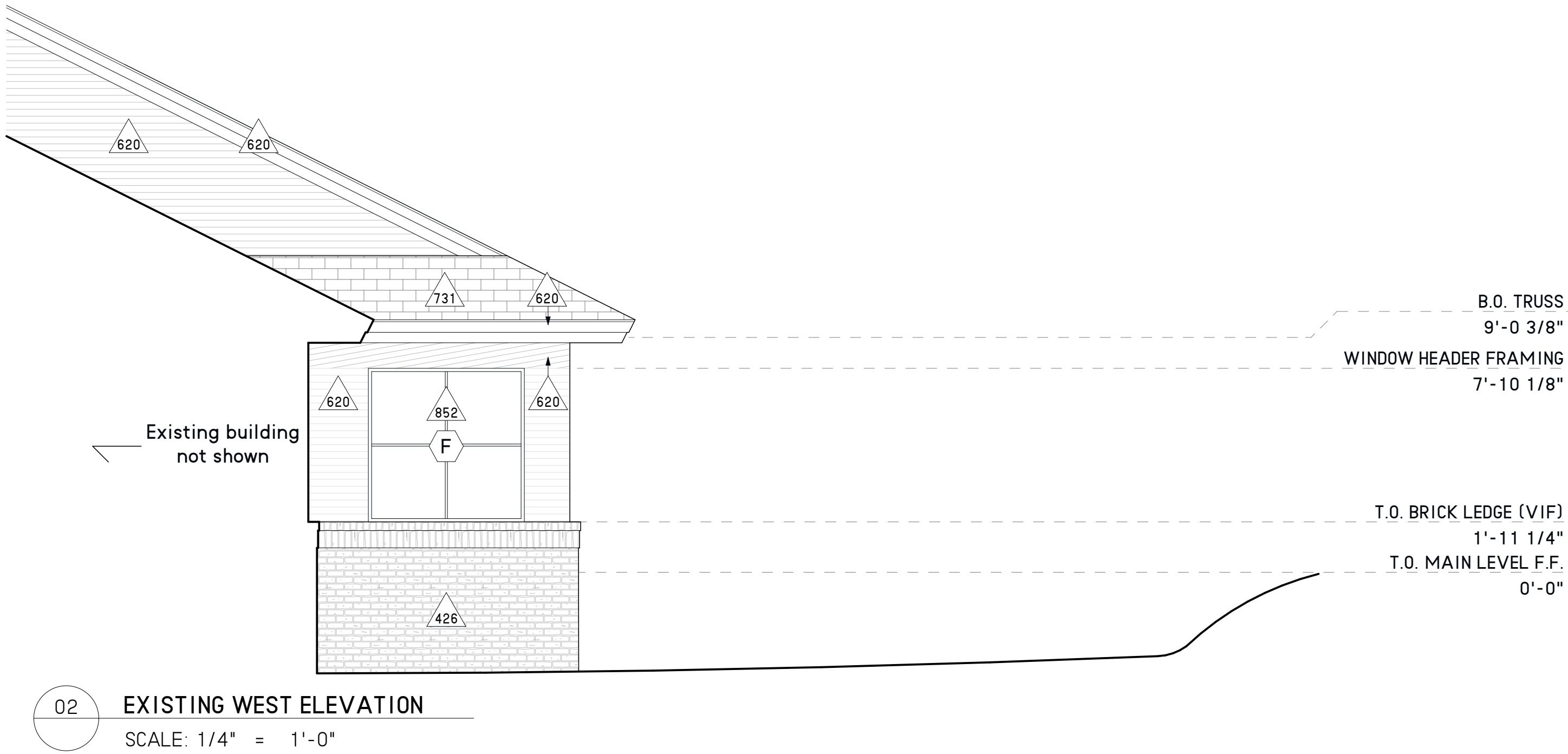
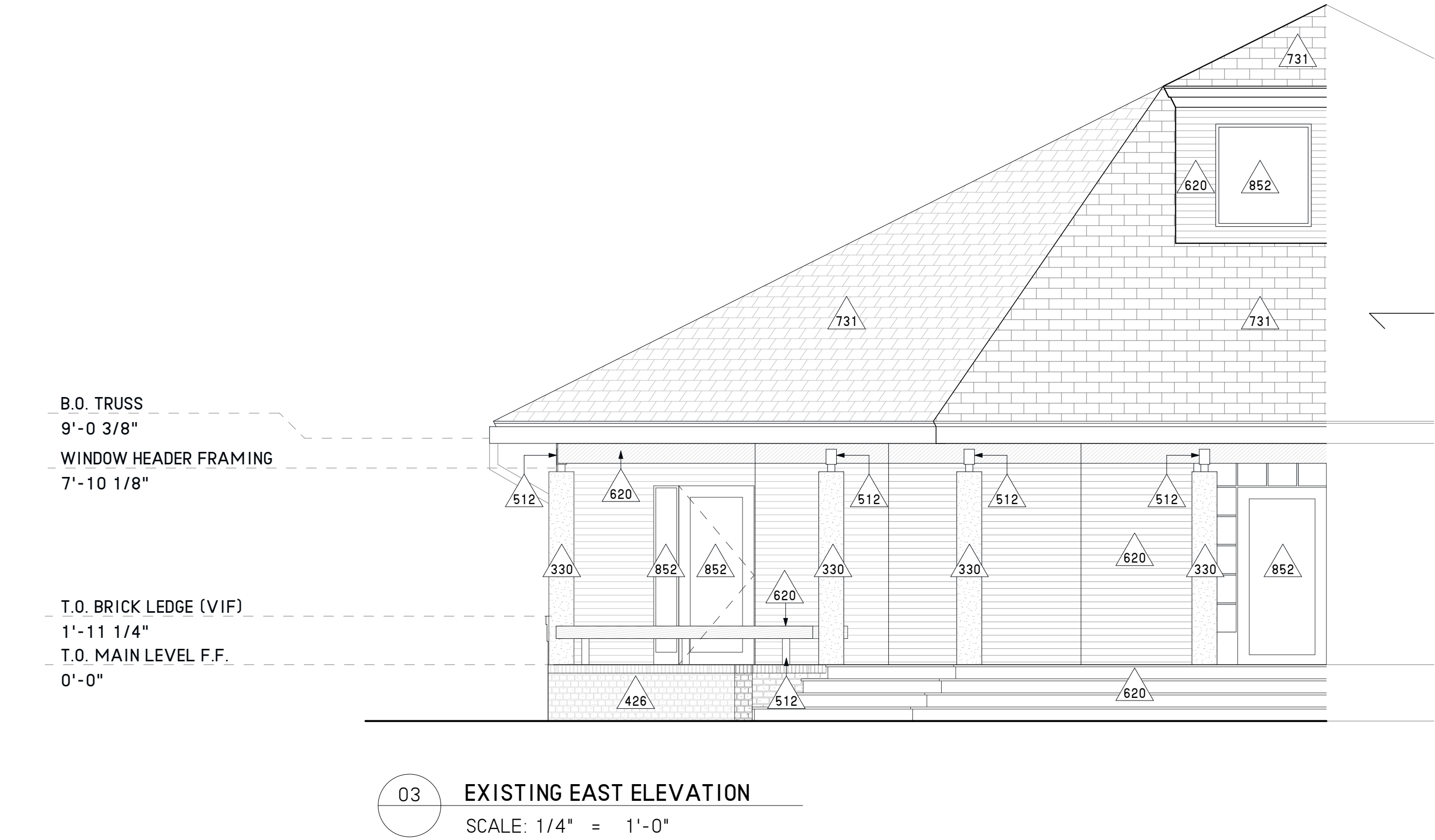
Project includes a small area of overbuilt roof and modification to roof trusses below shingles.

ROOF PLAN LEGEND

- area of modification
- asphalt shingles



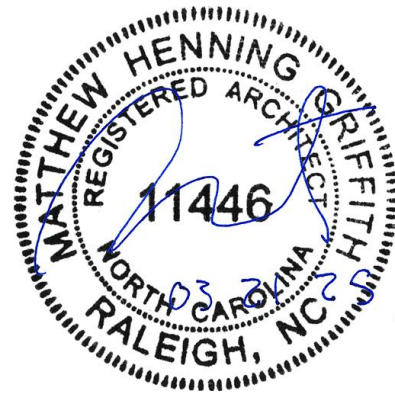
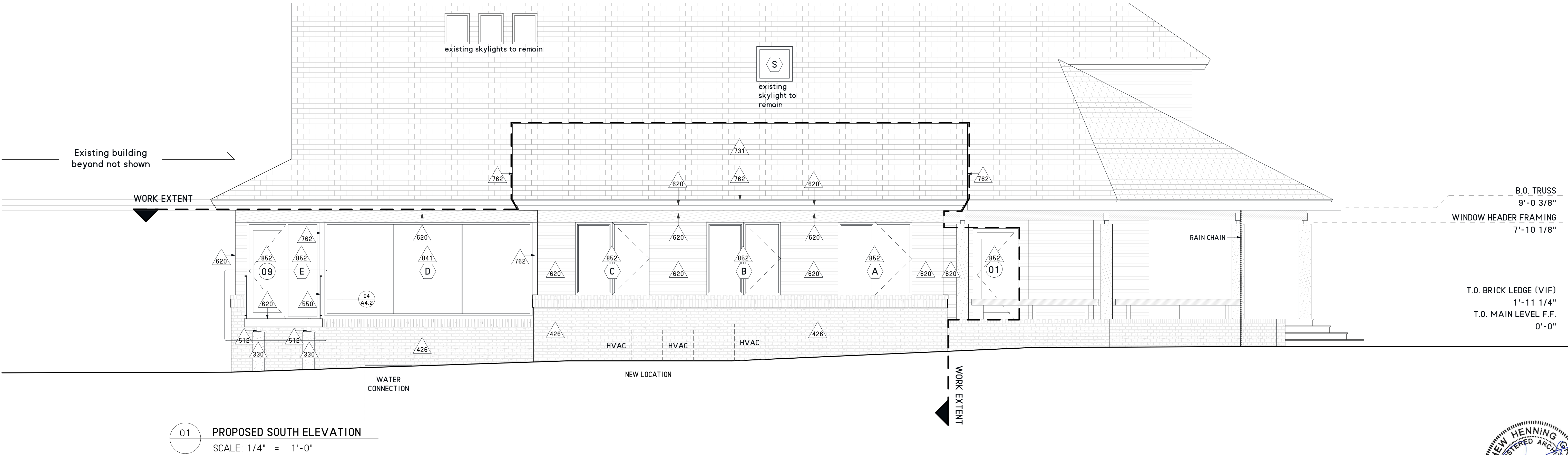
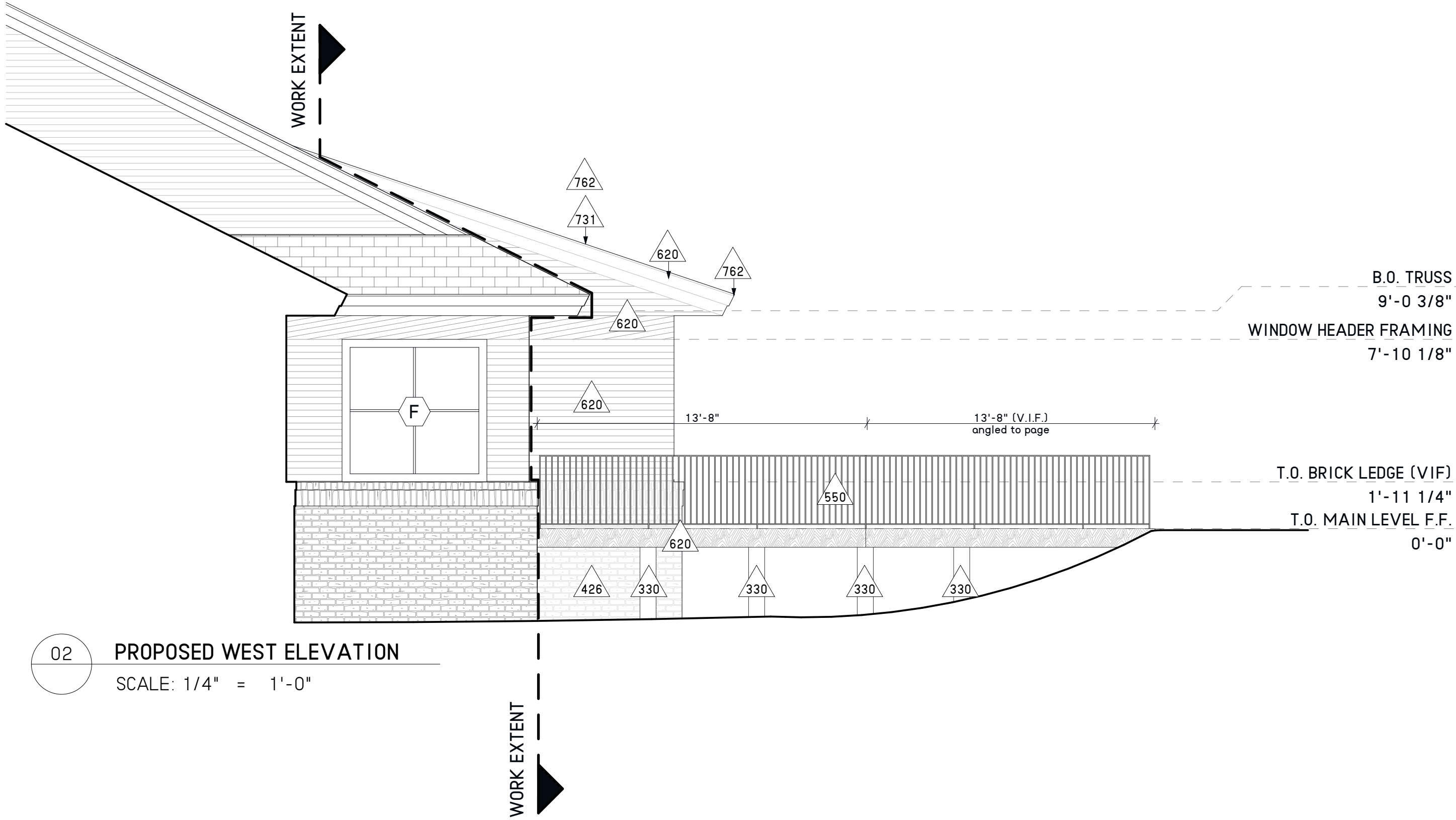
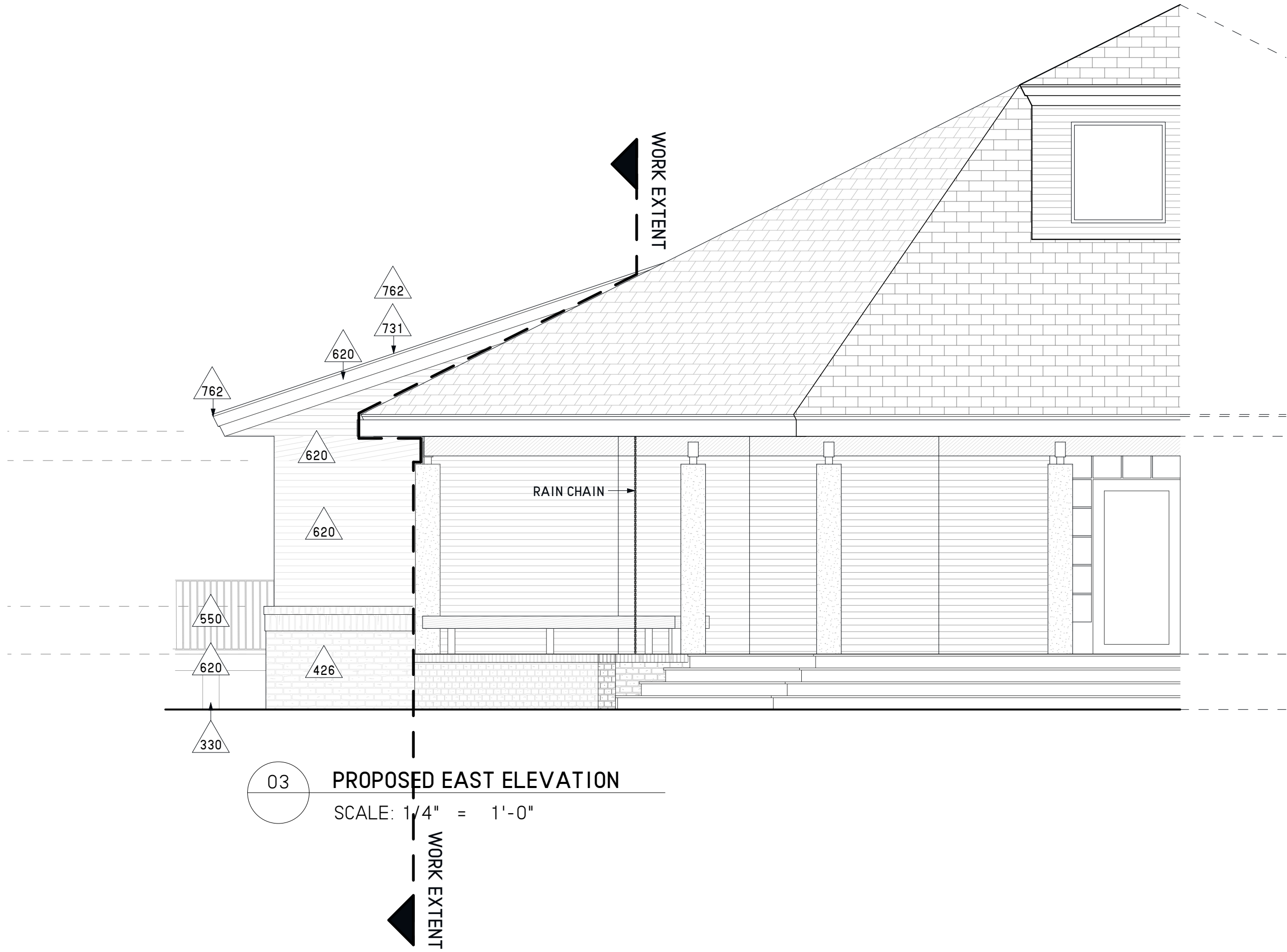
313 DECORATIVE GRAVEL + BOULDERS	610 ROUGH CARPENTRY	731 SHINGLE ROOFING	862 SKYLIGHT
330 CAST-IN-PLACE CONCRETE	618 GLU-LAM	762 BRAKE METAL	929 PAINTED GYPSUM BOARD
426 BRICK VENEER	620 FINISH CARPENTRY	814 WOOD DOOR	930 TILE
512 STRUCTURAL STEEL	641 ARCHITECTURAL CABINETS	841 ALUMINUM STOREFRONT	968 CARPET FLOORING
550 METAL FABRICATION	725 WATERPROOFING	852 ALUMINUM CLAD WOOD WINDOWS	1236 COUNTERTOPS

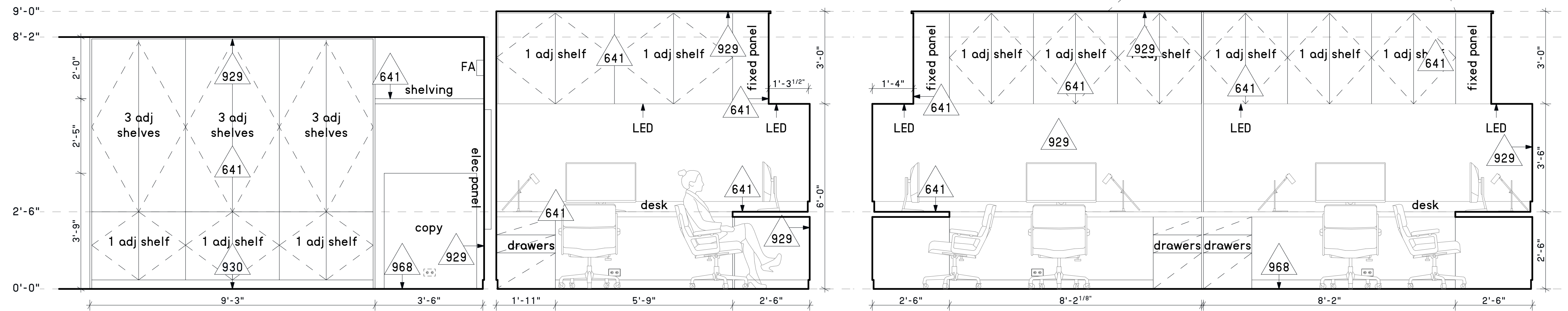


Existing drawings have been created using original design drawings and field measurements. Notify architect of any discrepancies between design dimensions and field conditions.



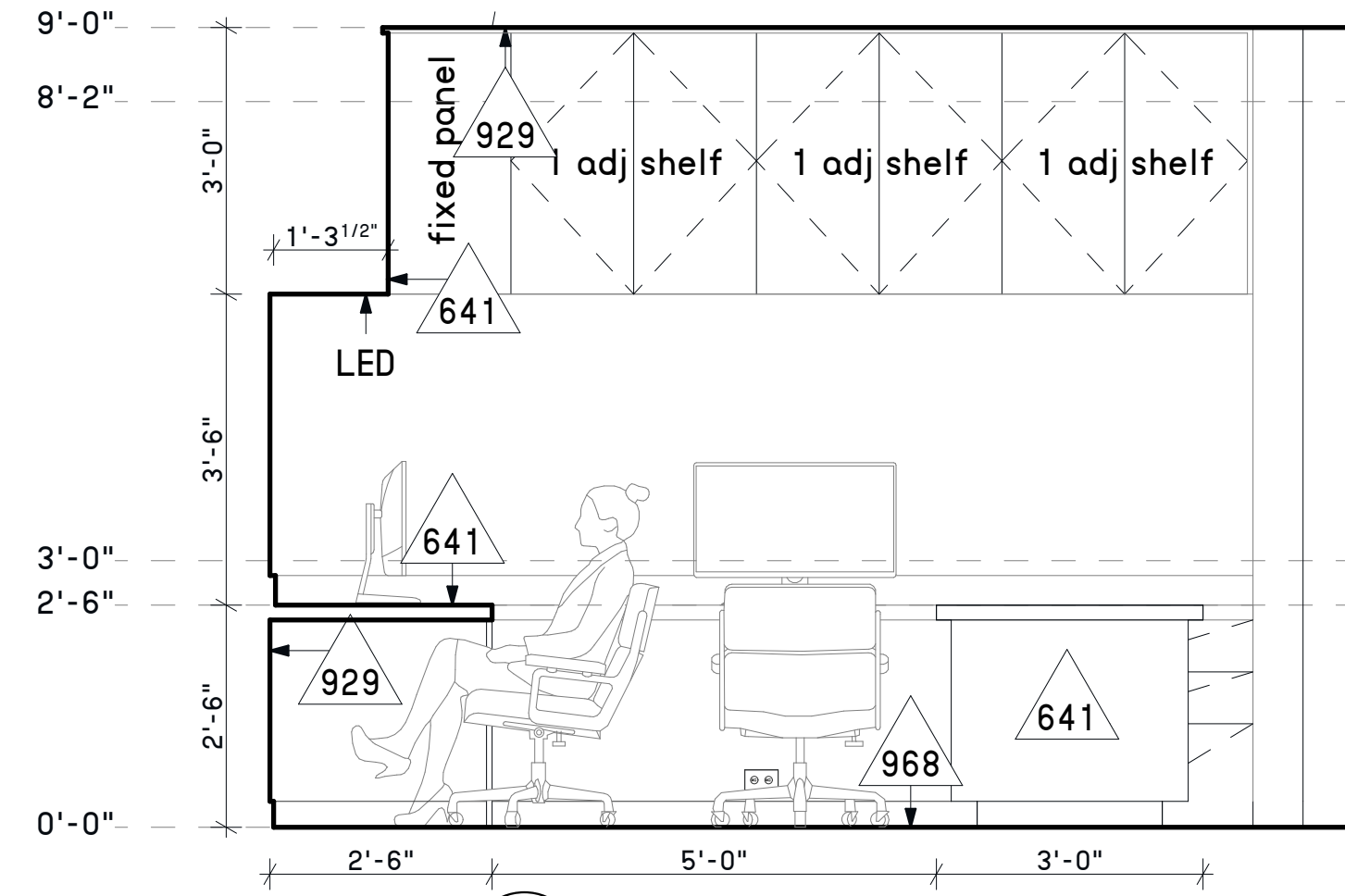
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330	CAST-IN-PLACE CONCRETE	618	GLU-LAM	762	BRAKE METAL	929	PAINTED GYPSUM BOARD
426	BRICK VENEER	620	FINISH CARPENTRY	814	WOOD DOOR	930	TILE
512	STRUCTURAL STEEL	641	ARCHITECTURAL CABINETS	841	ALUMINUM STOREFRONT	968	CARPET FLOORING
550	METAL FABRICATION	725	WATERPROOFING	852	ALUMINUM CLAD WOOD WINDOWS	1236	COUNTERTOPS



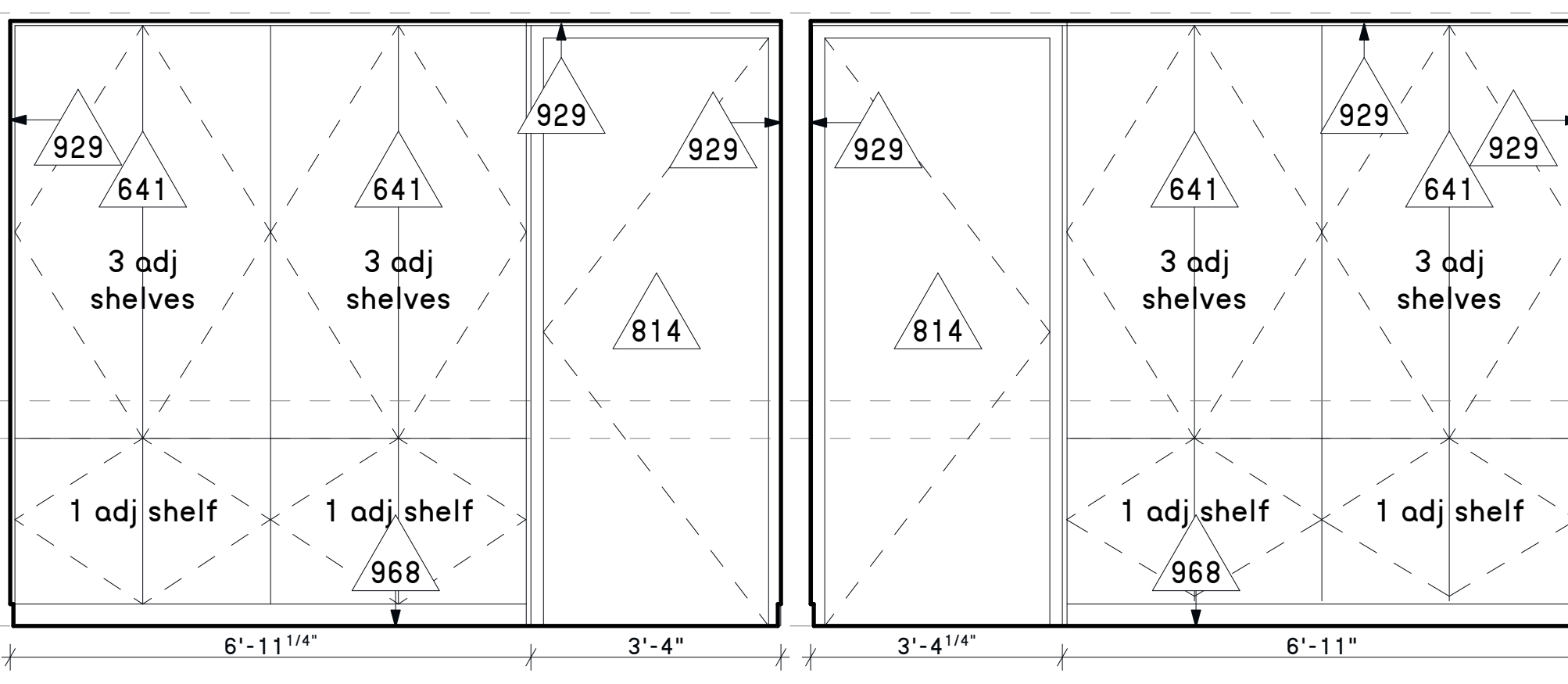


08 copy nook + storage
A3.3 SCALE: 1/2" = 1'-0"

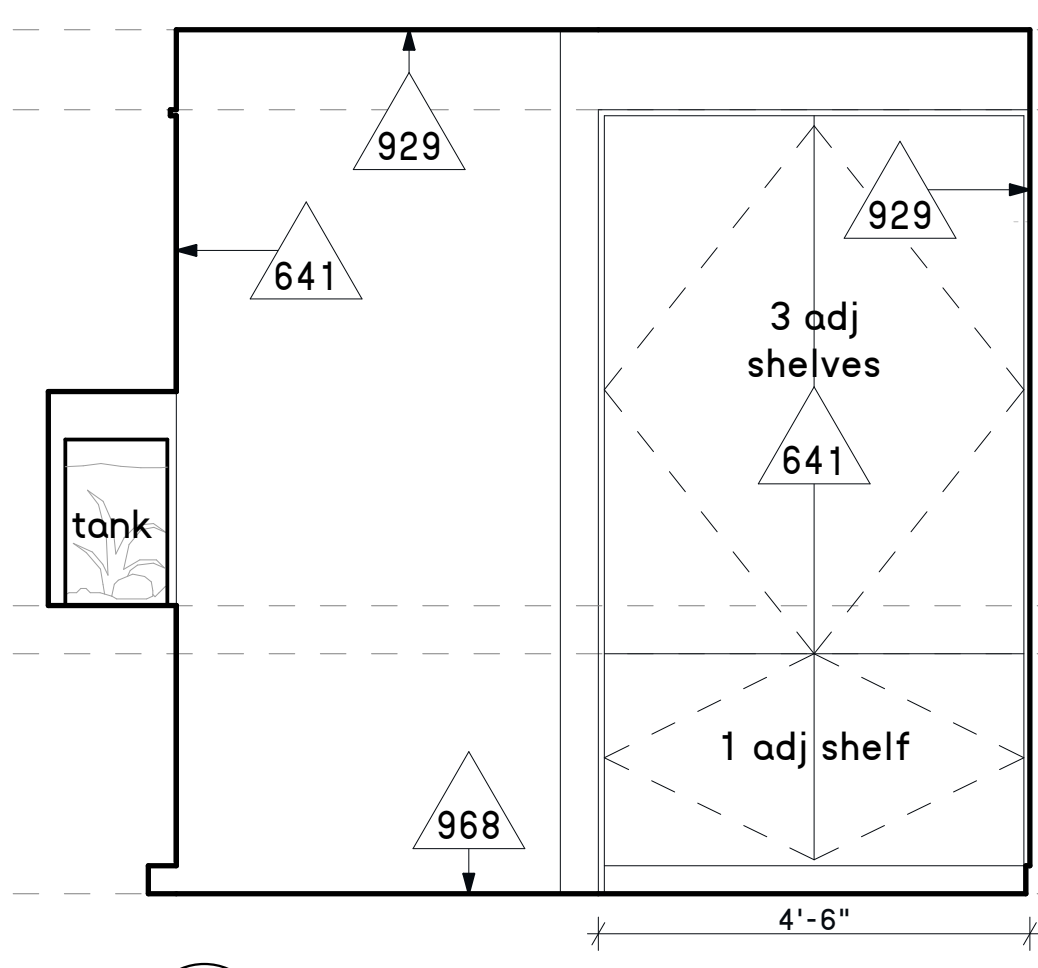
07 open office desks
A3.3 SCALE: 1/2" = 1'-0"



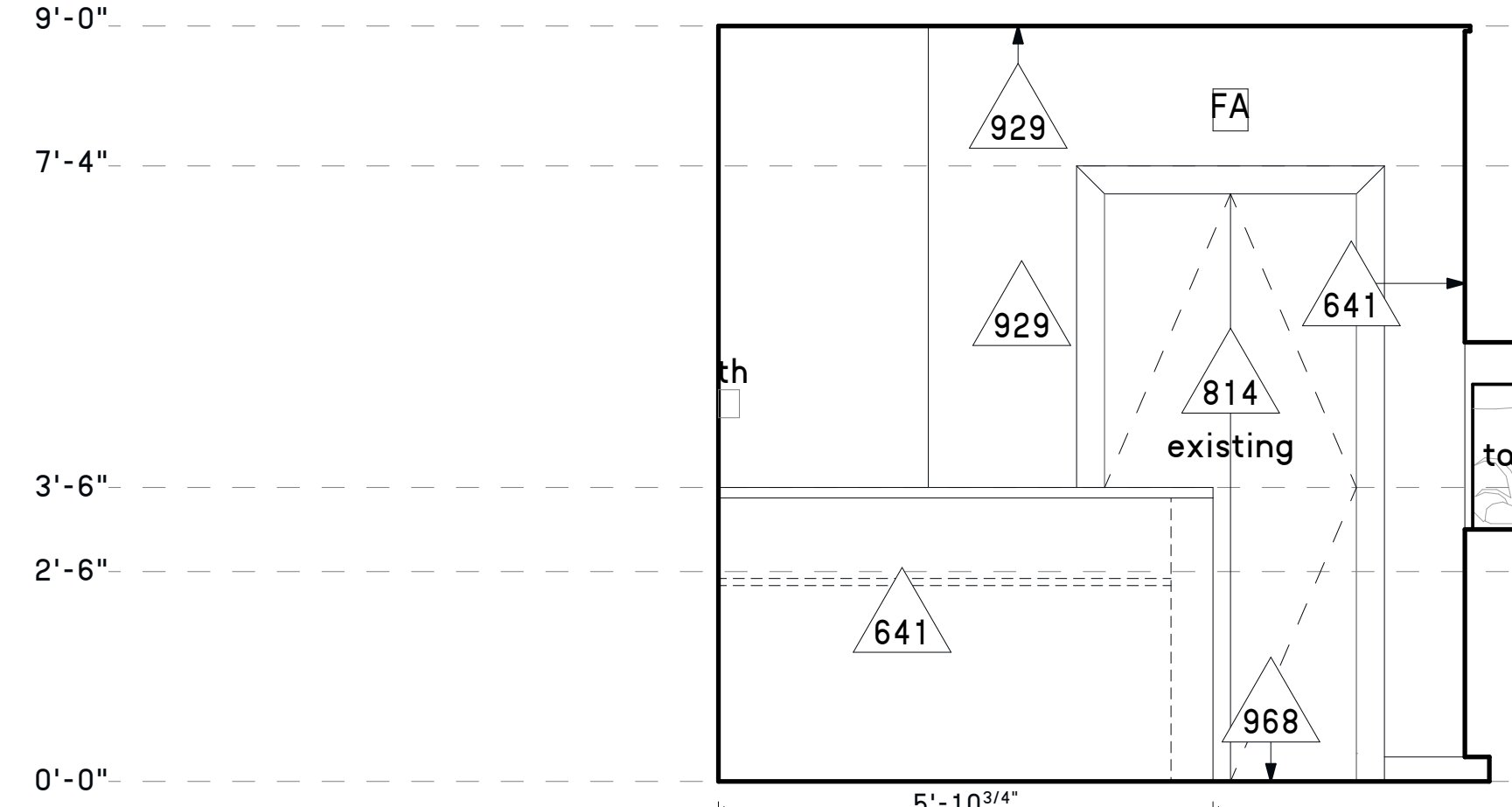
06 work table side elevation
A3.3 SCALE: 1/2" = 1'-0"



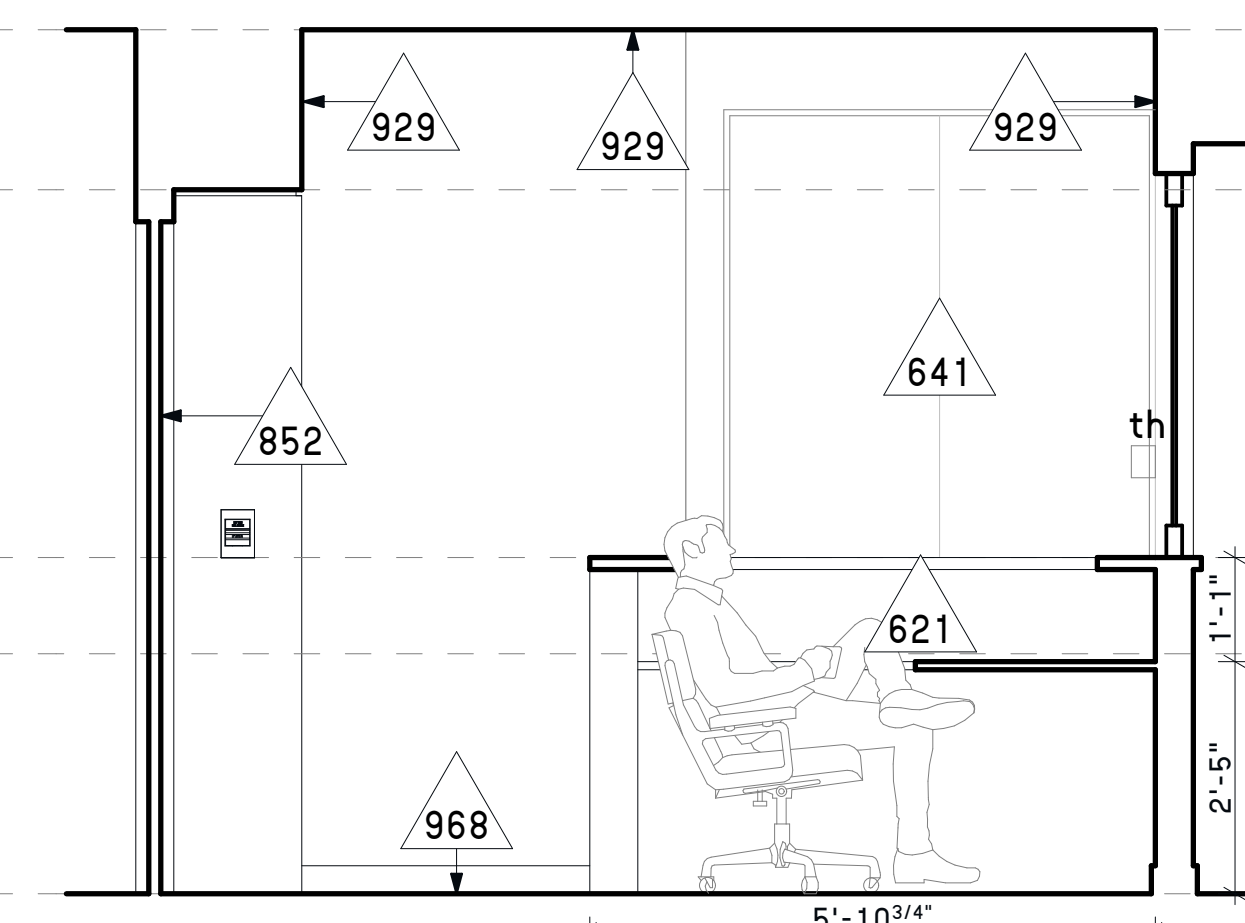
05 storage in offices
A3.3 SCALE: 1/2" = 1'-0"



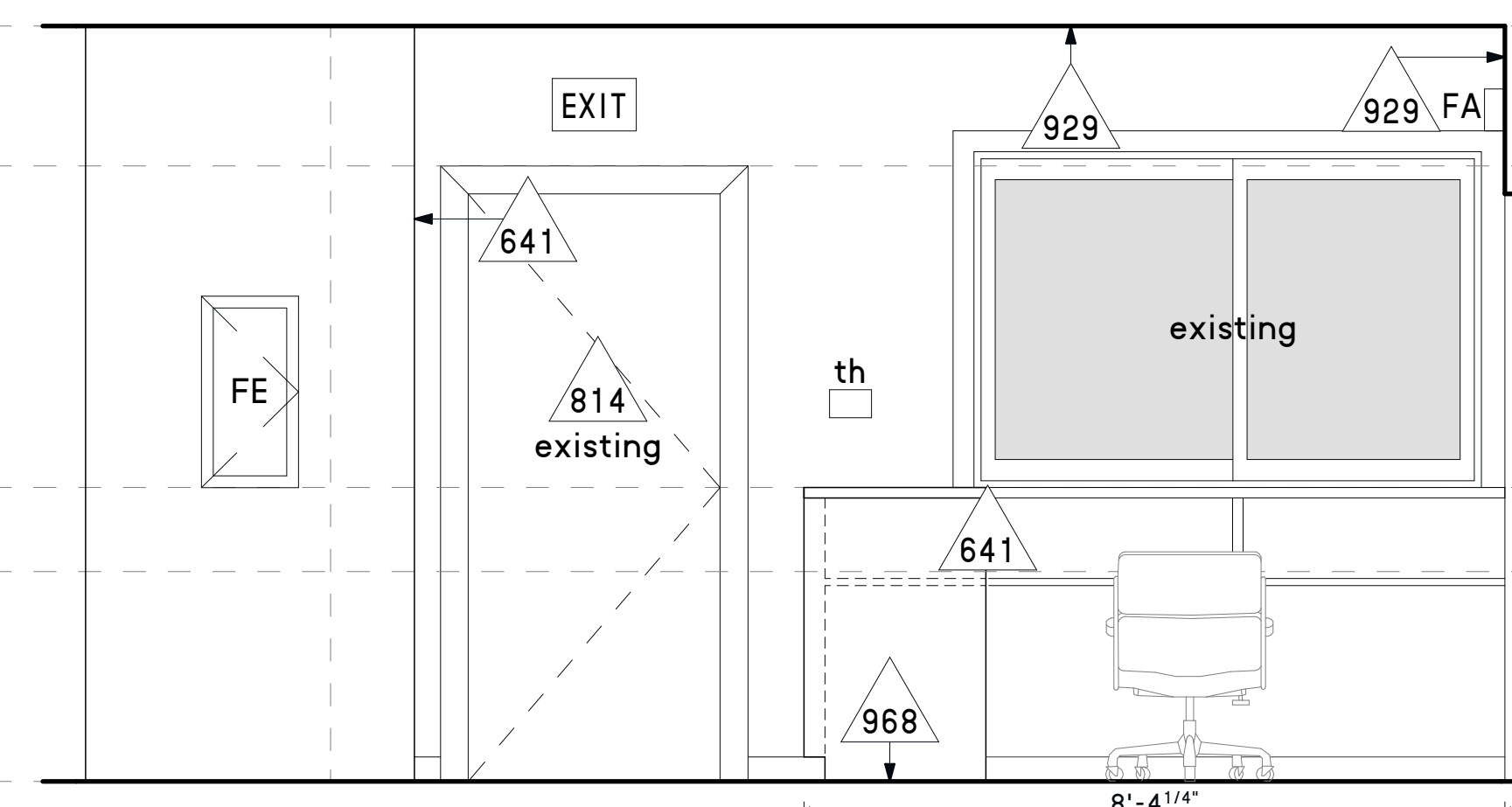
04 entry storage
A3.3 SCALE: 1/2" = 1'-0"



03 reception counter
A3.3 SCALE: 1/2" = 1'-0"



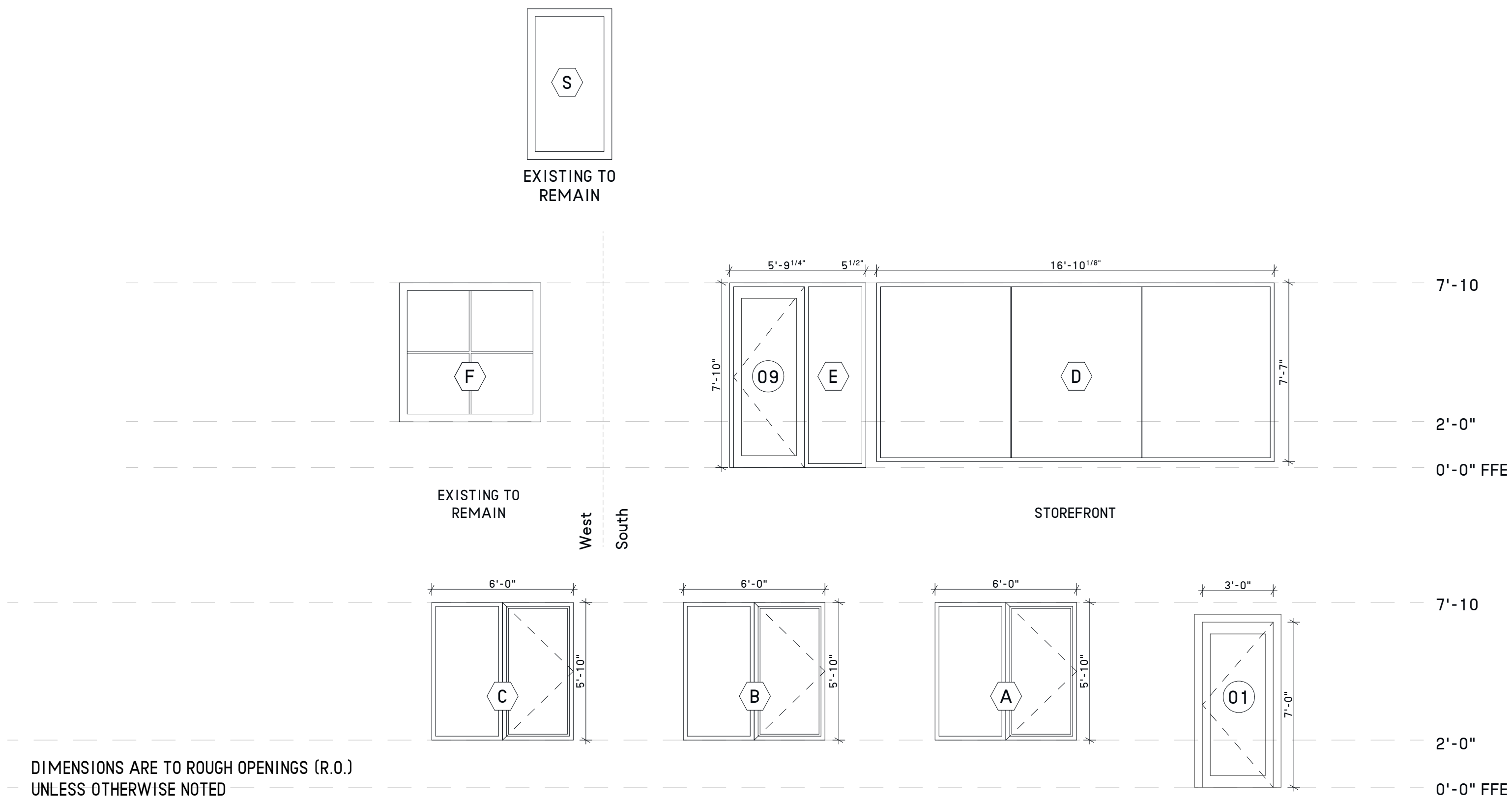
02 reception counter
A3.3 SCALE: 1/2" = 1'-0"



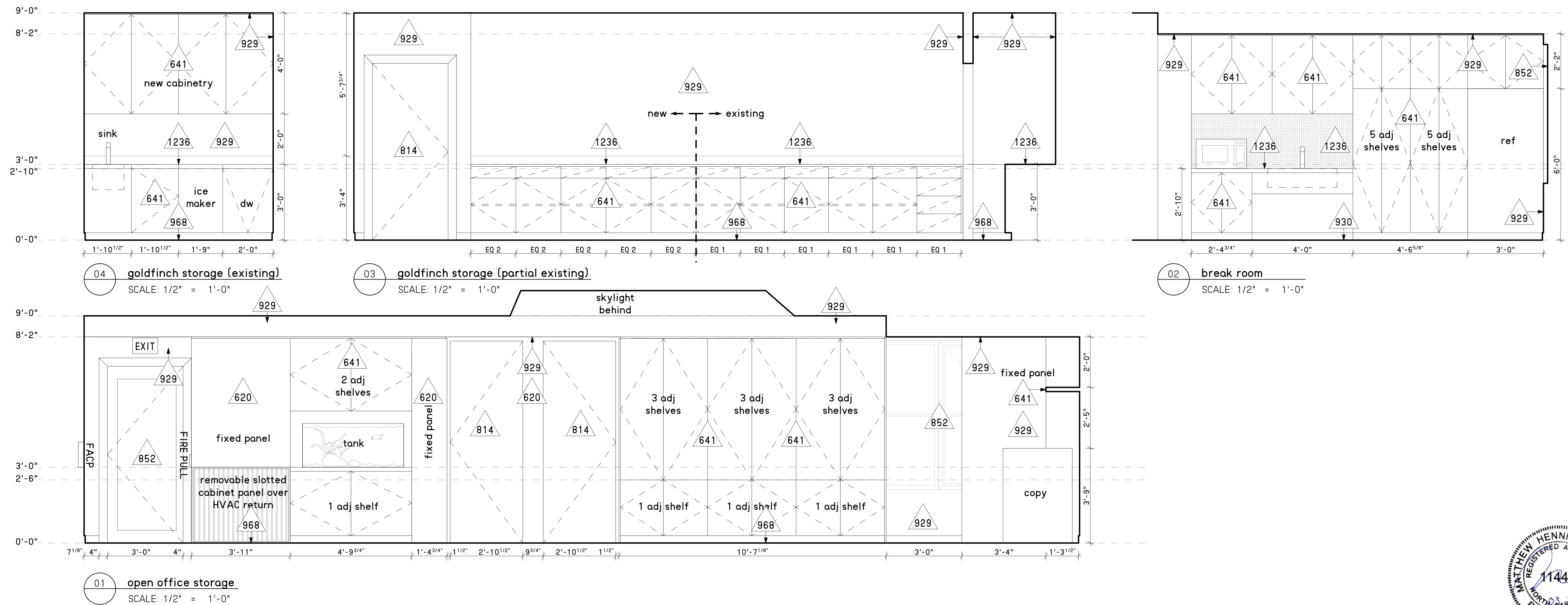
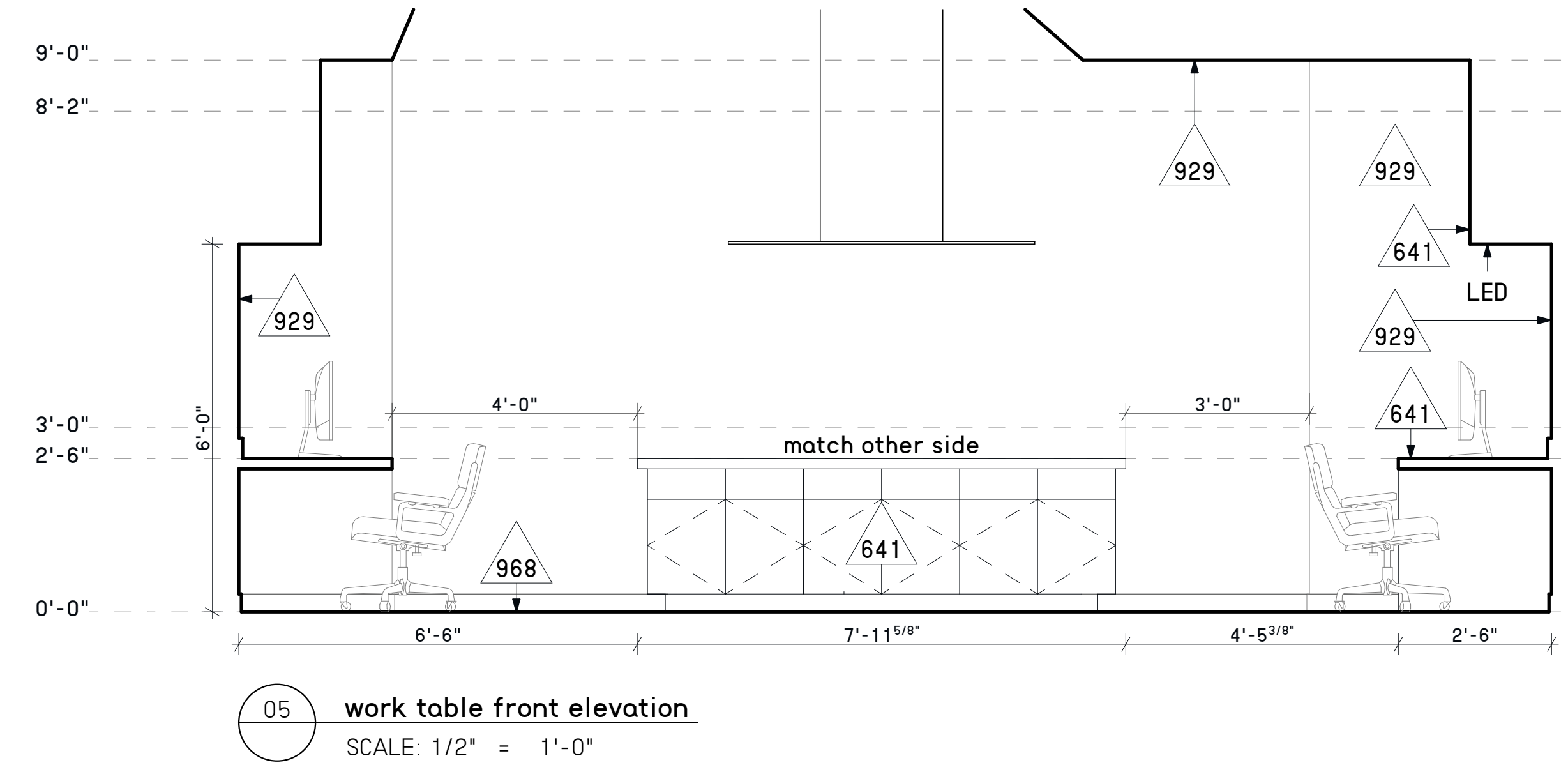
01 reception counter
A3.3 SCALE: 1/2" = 1'-0"

313 DECORATIVE GRAVEL + BOULDERS	731 SHINGLE ROOFING
330 CAST-IN-PLACE CONCRETE	762 BRAKE METAL
426 BRICK VENEER	814 WOOD DOOR
512 STRUCTURAL STEEL	841 ALUMINUM STOREFRONT
550 METAL FABRICATION	852 ALUMINUM CLAD WOOD WINDOW
610 ROUGH CARPENTRY	862 SKYLIGHT
618 GLU-LAM	929 PAINTED GYPSUM BOARD
620 FINISH CARPENTRY	930 TILE
641 ARCHITECTURAL CABINETS	968 CARPET FLOORING
725 WATERPROOFING	1236 COUNTERTOPS



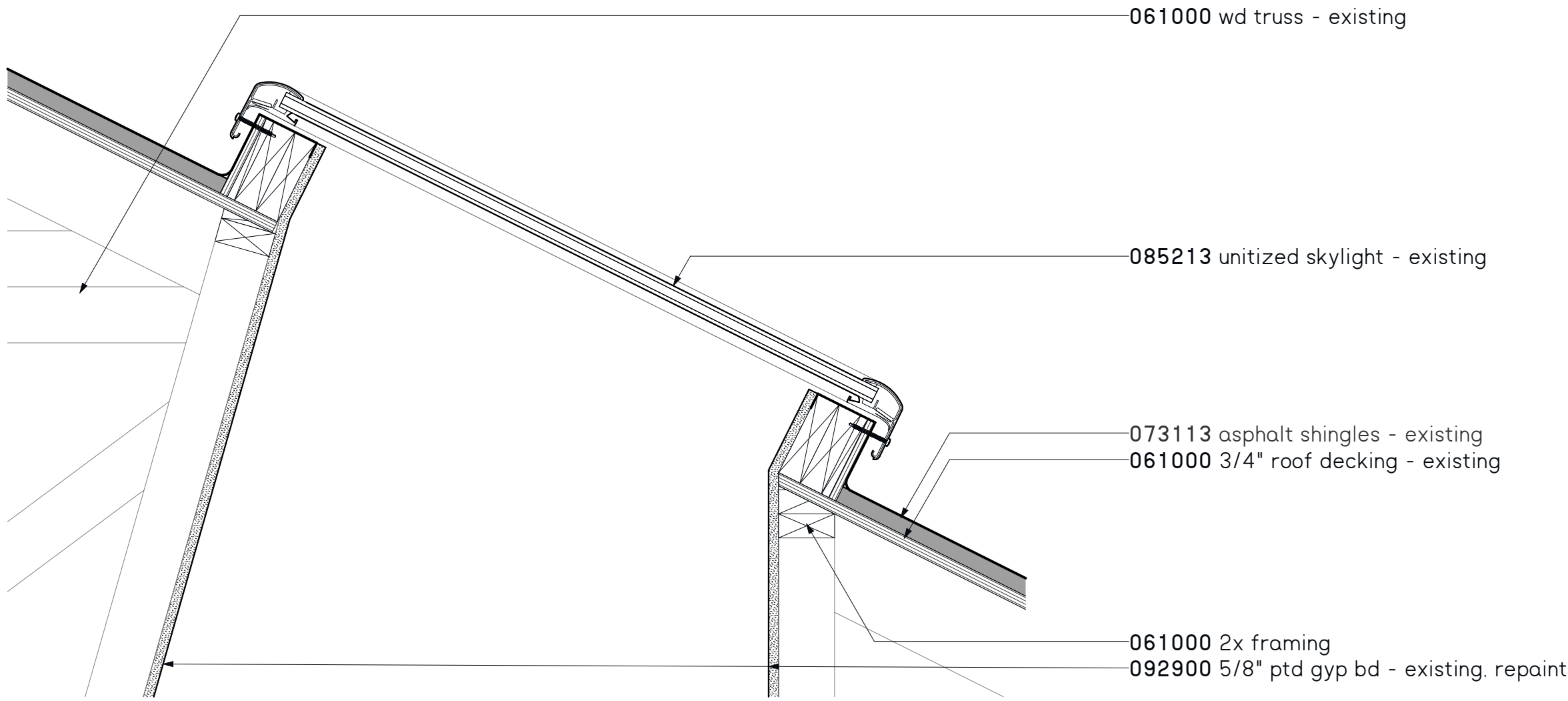


313 DECORATIVE GRAVEL + BOULDERS	610 ROUGH CARPENTRY	731 SHINGLE ROOFING	862 SKYLIGHT
330 CAST-IN-PLACE CONCRETE	618 GLU-LAM	762 BRAKE METAL	929 PAINTED GYPSUM BOARD
426 BRICK VENEER	620 FINISH CARPENTRY	814 WOOD DOOR	930 TILE
512 STRUCTURAL STEEL	641 ARCHITECTURAL CABINETS	841 ALUMINUM STOREFRONT	968 CARPET FLOORING
550 METAL FABRICATION	725 WATERPROOFING	852 ALUMINUM CLAD WOOD WINDOWS	1236 COUNTERTOPS

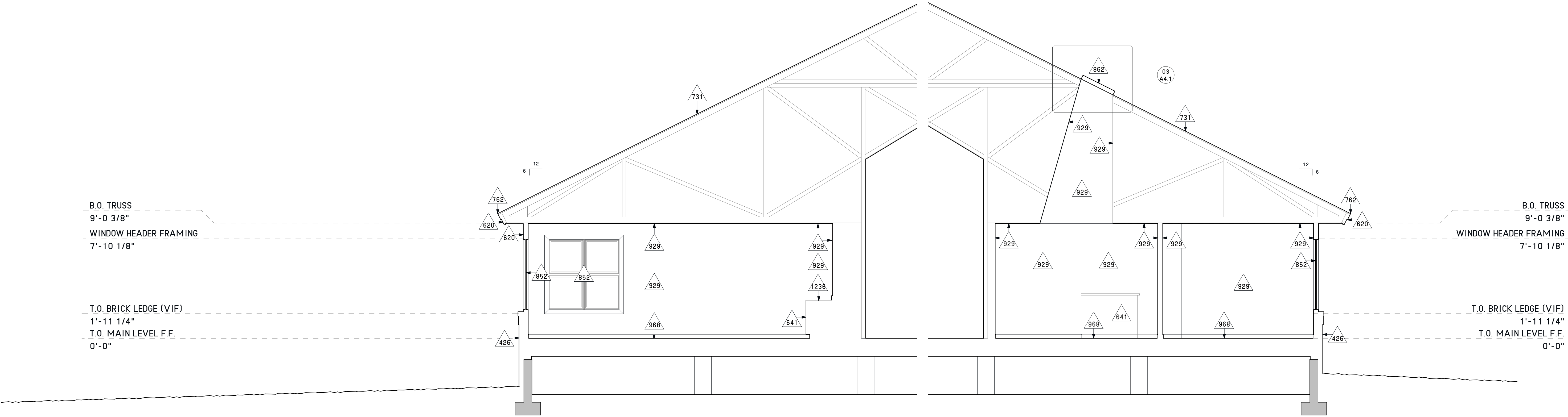


313	DECORATIVE GRAVEL + BOULDERS	610	ROUGH CARPENTRY	731	SHINGLE ROOFING	862	SKYLIGHT
330	CAST-IN-PLACE CONCRETE	618	GLU-LAM	762	BRAKE METAL	929	PAINTED GYPSUM BOARD
426	BRICK VENEER	620	FINISH CARPENTRY	814	WOOD DOOR	930	TILE
512	STRUCTURAL STEEL	641	ARCHITECTURAL CABINETS	841	ALUMINUM STOREFRONT	968	CARPET FLOORING
550	METAL FABRICATION	725	WATERPROOFING	852	ALUMINUM CLAD WOOD WINDOWS	1236	COUNTERTOPS

Existing drawings have been created using original design drawings and field measurements.
Notify architect if any discrepancies between design dimensions and field conditions.



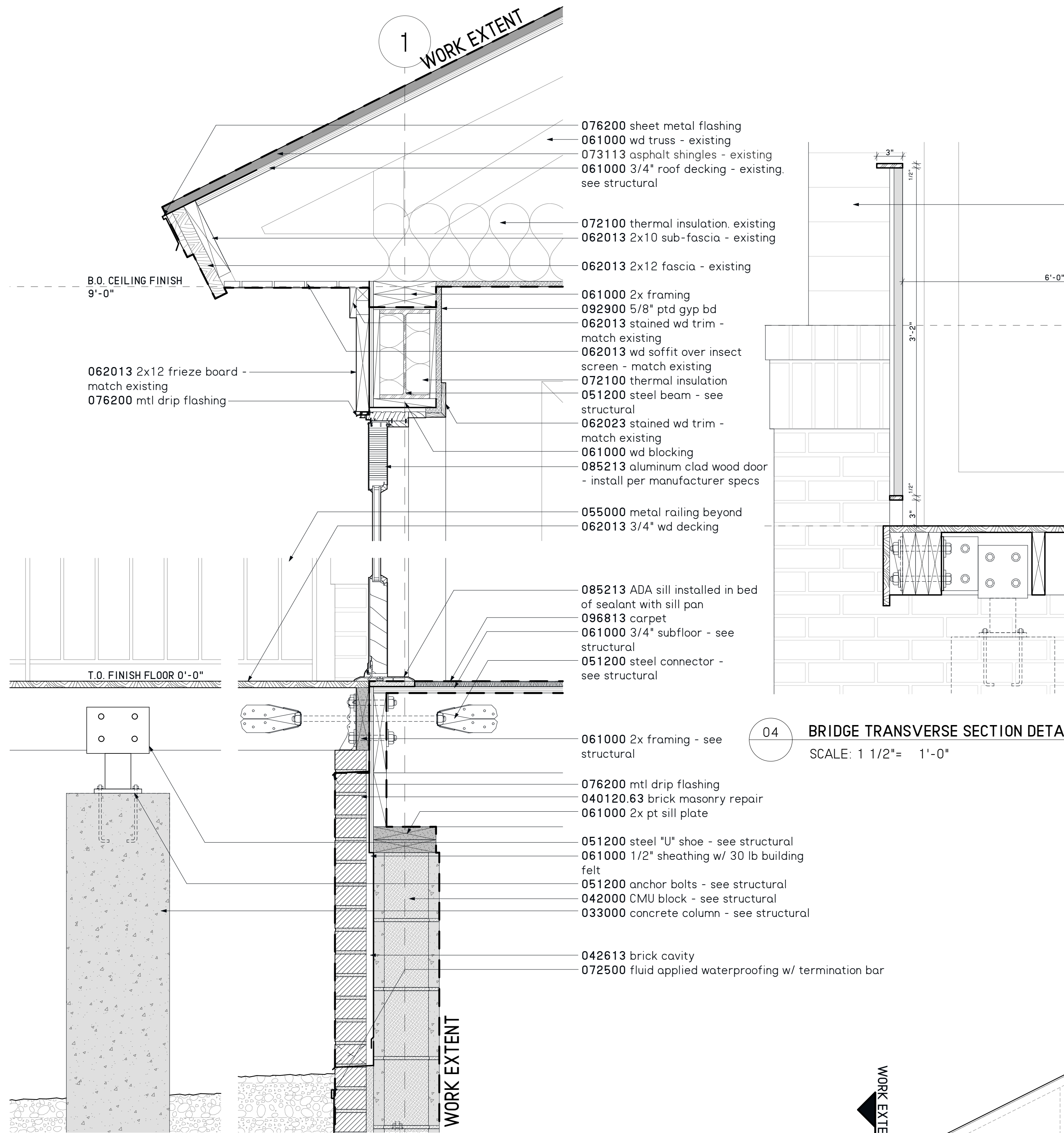
03 EXISTING SKYLIGHT SECTION
SCALE: 1 1/2" = 1'-0"



02 EXISTING SECTION THROUGH GOLDFINCH ROOM
SCALE: 1/4" = 1'-0"

01 EXISTING SECTION THROUGH OPEN OFFICE
SCALE: 1/4" = 1'-0"

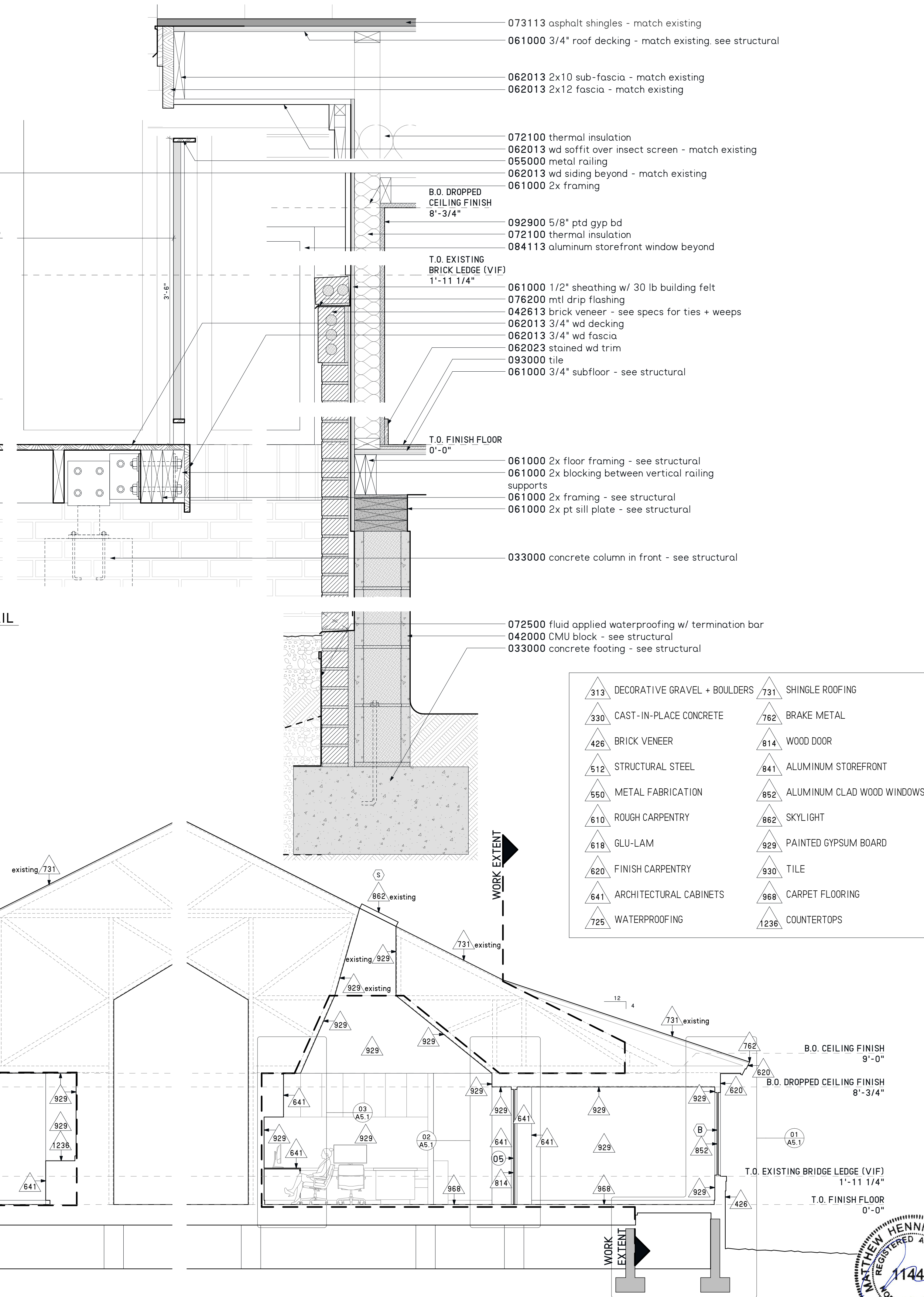




03 BRIDGE LONGITUDINAL SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

02 PROPOSED SECTION THROUGH GOLDFINCH ROOM
SCALE: 1/4" = 1'-0"

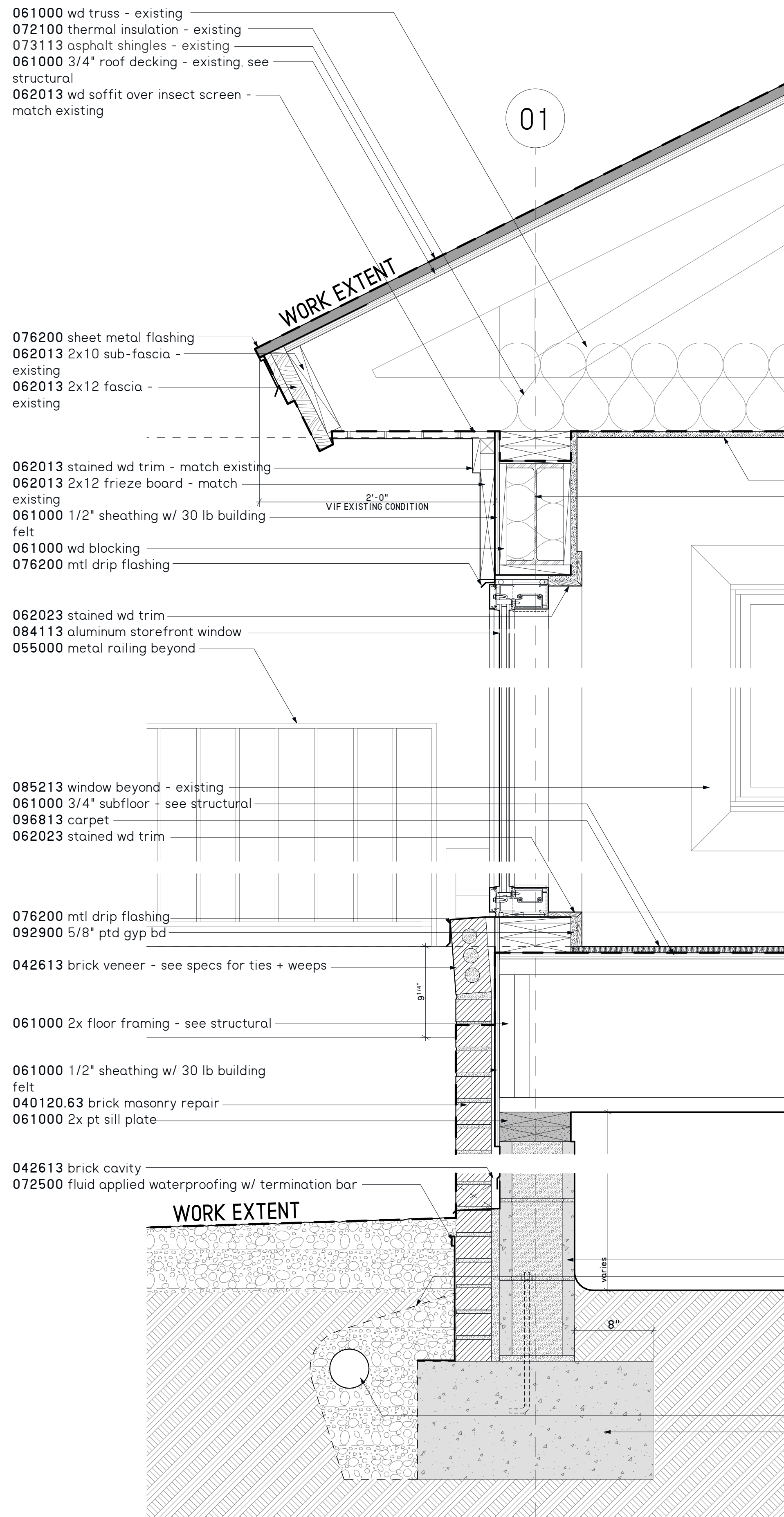
04 BRIDGE TRANSVERSE SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



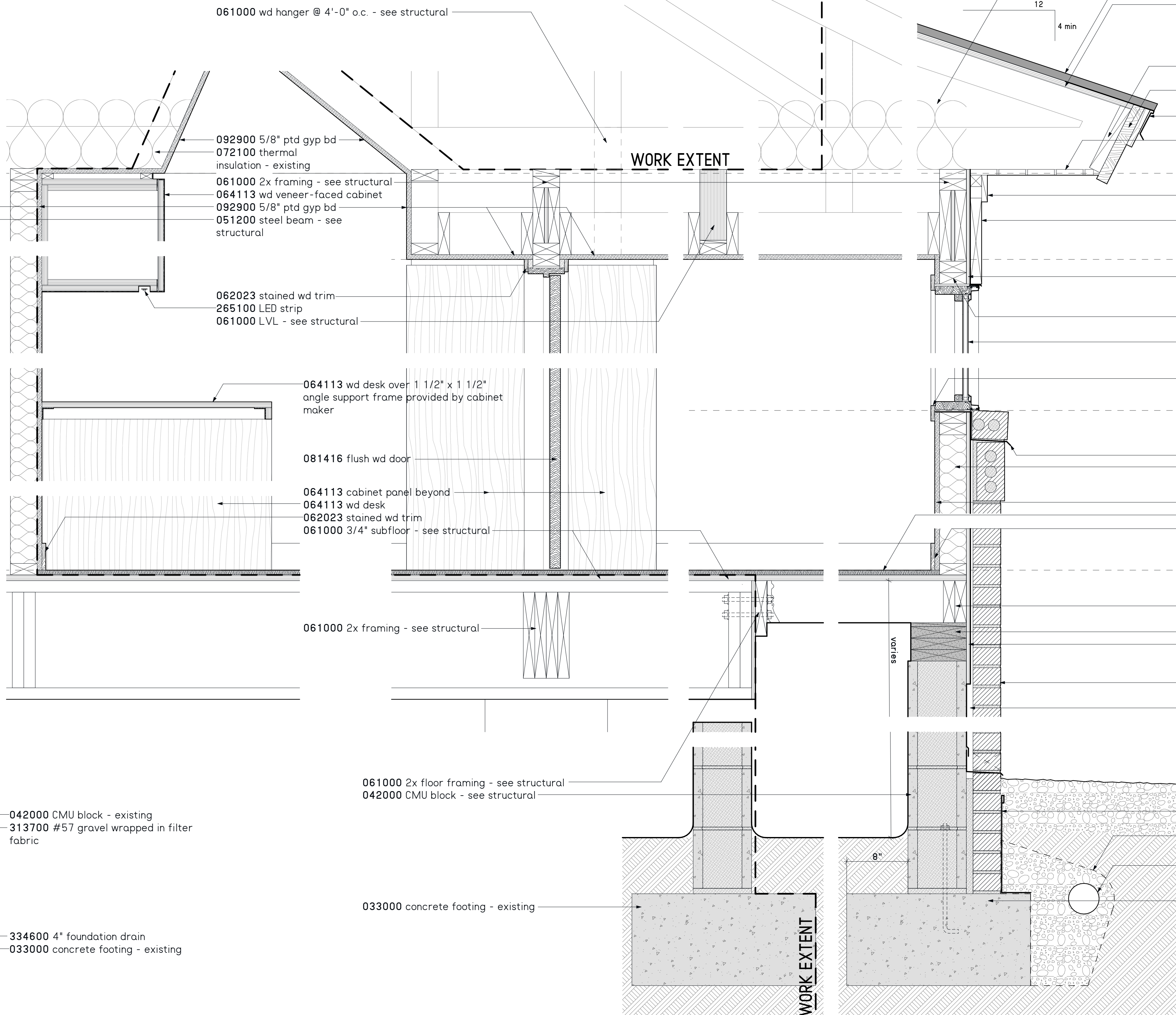
01 PROPOSED SECTION THROUGH OPEN OFFICE
SCALE: 1/4" = 1'-0"

313 DECORATIVE GRAVEL + BOULDERS	731 SHINGLE ROOFING
330 CAST-IN-PLACE CONCRETE	762 BRAKE METAL
426 BRICK VENEER	814 WOOD DOOR
512 STRUCTURAL STEEL	841 ALUMINUM STOREFRONT
550 METAL FABRICATION	852 ALUMINUM CLAD WOOD WINDOWS
610 ROUGH CARPENTRY	862 SKYLIGHT
618 GLU-LAM	929 PAINTED GYPSUM BOARD
620 FINISH CARPENTRY	930 TILE
641 ARCHITECTURAL CABINETS	968 CARPET FLOORING
725 WATERPROOFING	1236 COUNTERTOPS

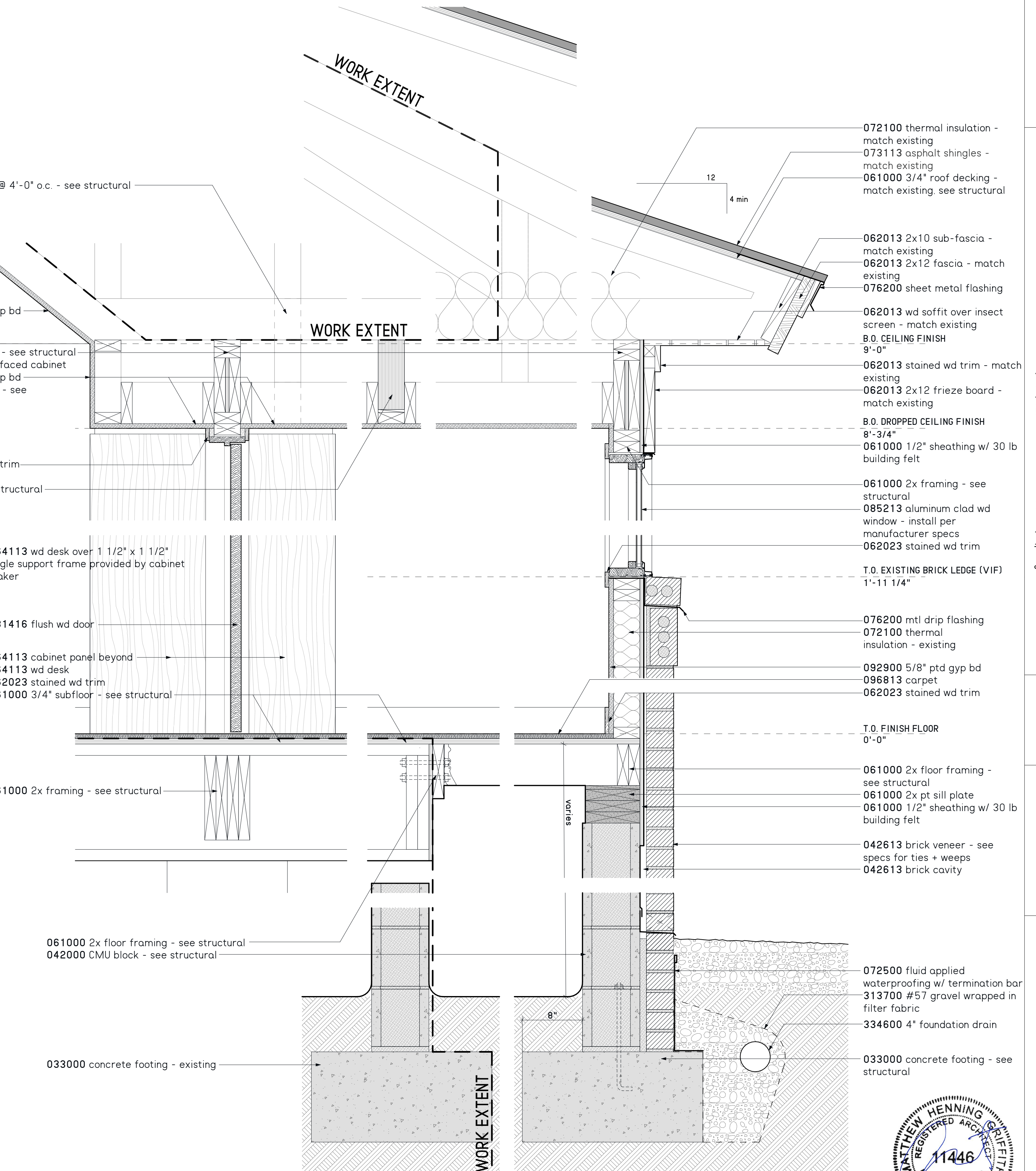




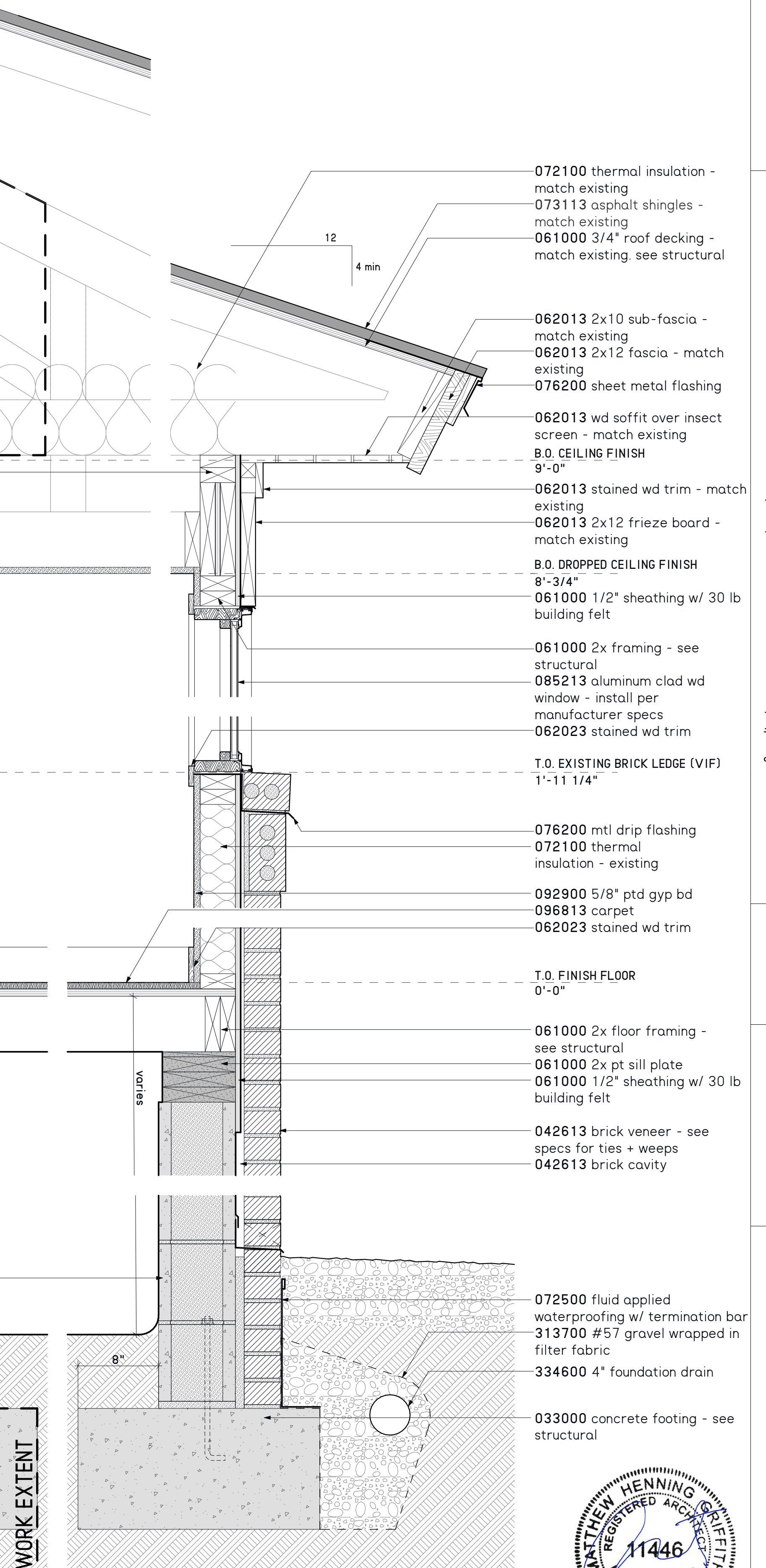
04 GOLDFINCH ROOM SECTION DETAIL
SCALE: 1 1/2"= 1'-0"



03 OPEN OFFICE DESK SECTION DETAIL
SCALE: 1 1/2"= 1'-0"

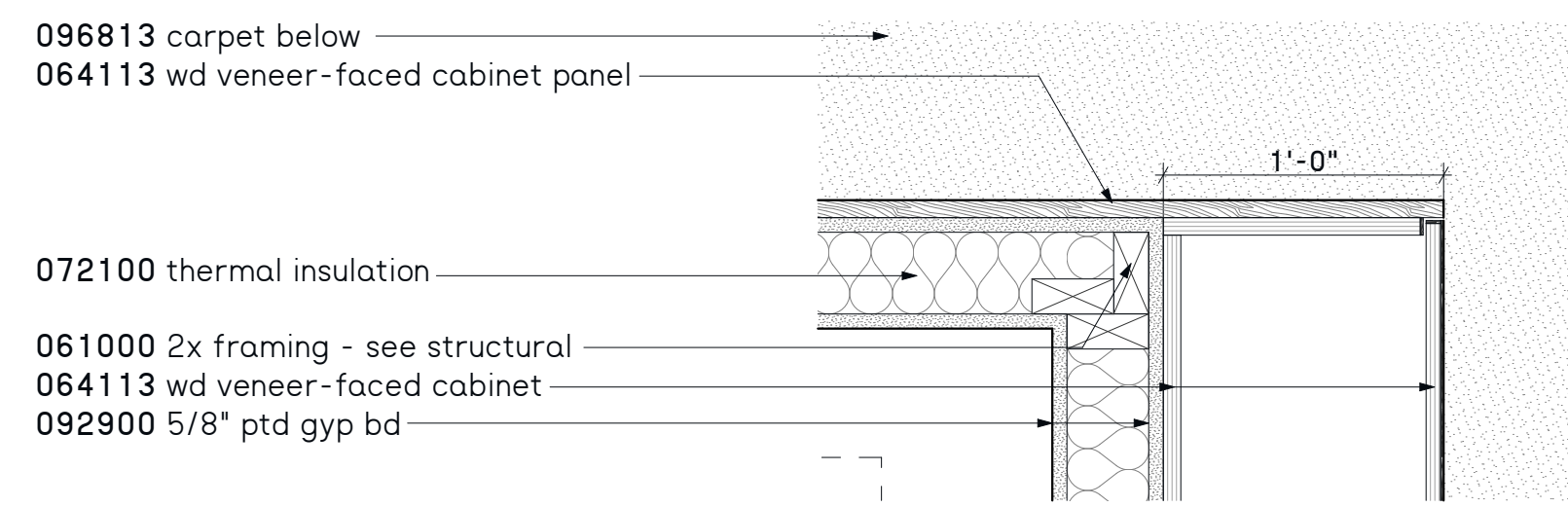


02 OFFICE DOOR SECTION DETAIL
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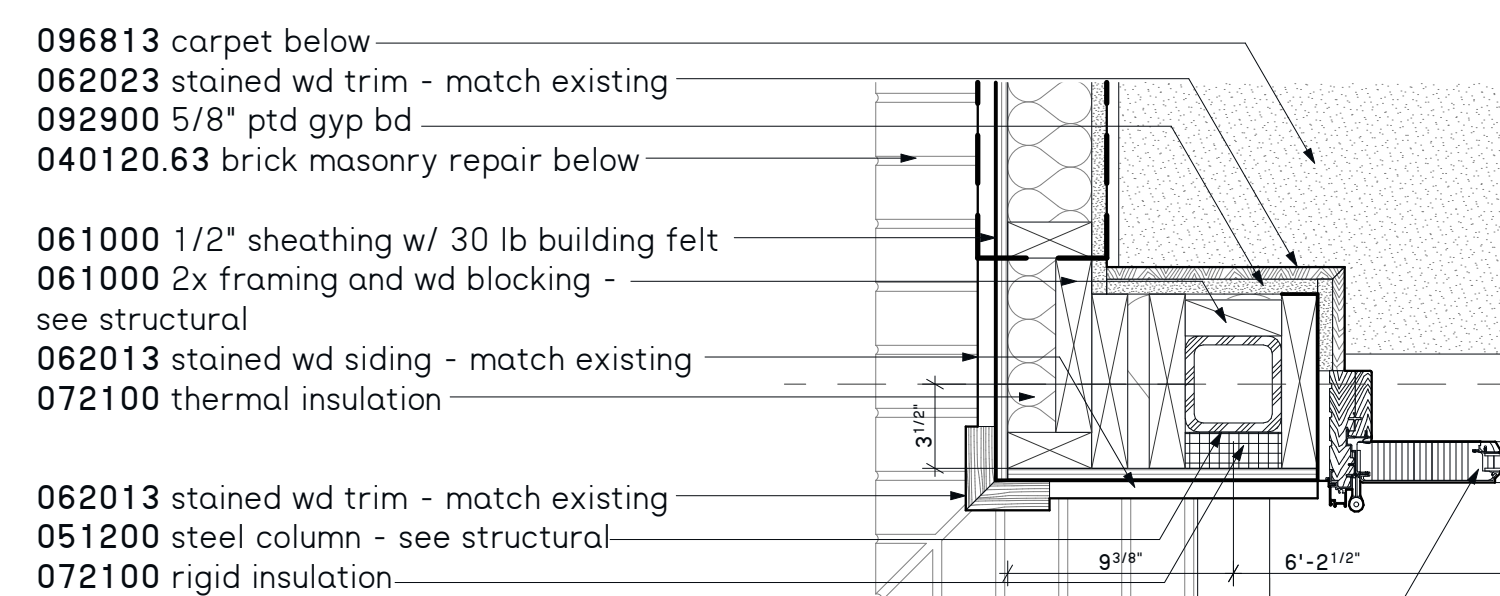


01 OFFICE ROOF SECTION DETAIL
SCALE: 1 1/2"= 1'-0"





08 COPY CORNER DETAIL
SCALE: 1 1/2"= 1'-0"

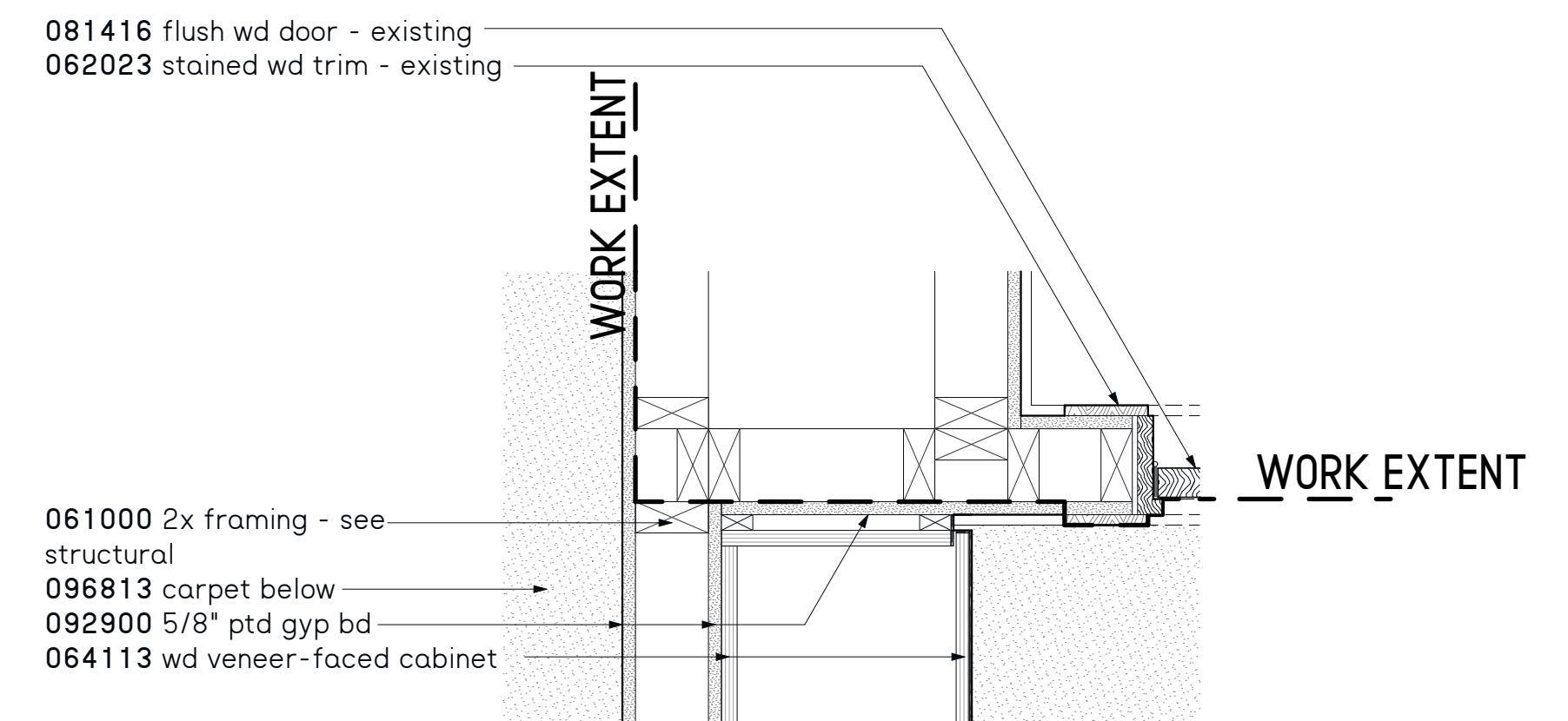


04 EXIT BRIDGE PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

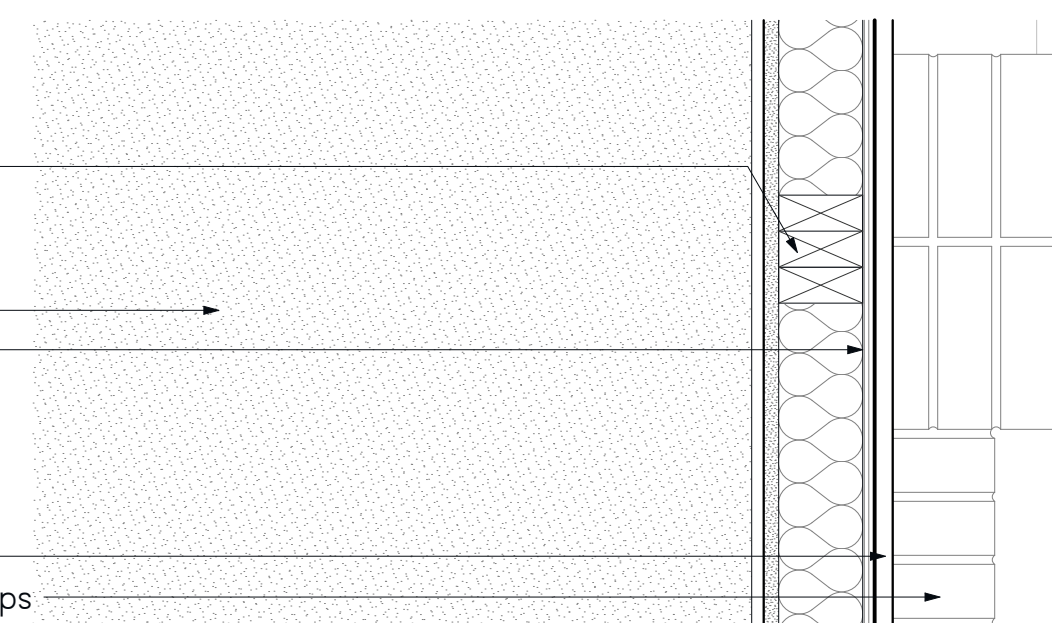
06 OFFICE DOORS PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

03 WINDOW CORNER PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

02 BREAK ROOM EXTERIOR CORNER DETAIL
SCALE: 1 1/2" = 1'-0"



05 RETURN CHASE ENTRY DETAIL
SCALE: 1 1/2"= 1'-0"



BRIDGE FOUNDATION AND FRAMING PLAN
SCALE: 1/4" = 1'-0"

STEEL COLUMN SCHEDULE							
MK#	COLUMN SIZE	BASE PLATE			A.B.'S	A.B. PATTERN	NOTES
		WIDTH	LENGTH	THICK.			
C1	HSS 4 X 4 X 3/8	7	12	0.75	(4) 1/2"	9 X 4	1, 2, 3

1. TUBE COLUMNS ARE ASTM A500 ($F_y = 46$ KSI)
2. USE F1554 (GRADE 36) A.B.'S WITH WASHERS AND HEAVY HEX NUTS BOTH ENDS.
3. A.B.'S SHALL HAVE 16" MIN. PROJECTION IN SOLID GROUTED CMU.

NOTES

1. SIZE SHOWN IS NOMINAL
2. MATERIAL SHALL BE PRESSURE TREATED FOR EXTERIOR USE.

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APPROVED: CAL

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ROOF FRAMING NOTES

1. SEE ARCHITECTURAL PLANS FOR ROOF PITCH. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.
2. USE APA RATED ROOF SHEATHING: 32/16, 5/8" MINIMUM THICKNESS. USE 8d NAILS AT 6" OC ALONG THE PANEL EDGES AND 12" OC ALONG INTERMEDIATE SUPPORTS. PANELS SHALL BE CONTINUOUS OVER TWO OR MORE ROOF JOISTS WITH THE LONG DIMENSION (STRENGTH AXIS) ACROSS THE ROOF JOISTS.
3. COORDINATE OPENINGS IN THE ROOF FRAMING WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. OPENINGS LARGER THAN 6" BUT LESS THAN 14" SHALL BE FRAMED ON ALL SIDES WITH 2 X 4 HEADERS. CONTACT STRUCTURAL ENGINEER FOR OPENINGS GREATER THAN 14" WIDE.
4. BUY FULL LENGTH RAFTERS; DO NOT SPLICE.
5. AT INTERSECTIONS BETWEEN JOISTS AND FLUSH BEAMS, JOIST SHALL BE ATTACHED TO FLUSH BEAM WITH SIMPSON FACE HANGERS, INSTALLED PER MANUFACTURER SPECIFICATIONS.

STUD COLUMN SCHEDULE		
2 X 4 STUD WALLS		
MK#	SIZE	NOTES
4SC2	(2) 2 X 4	I
4SC3	(3) 2 X 4	I
4SC4	(4) 2 X 4	I

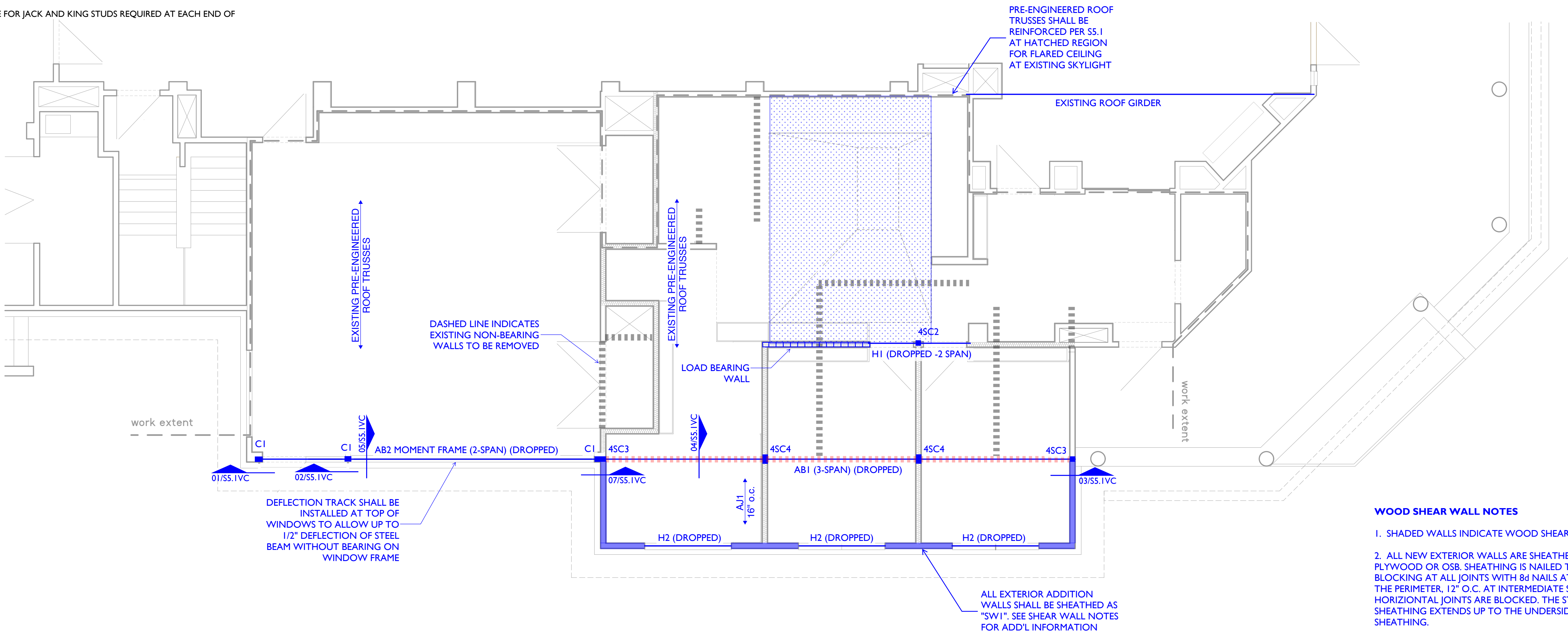
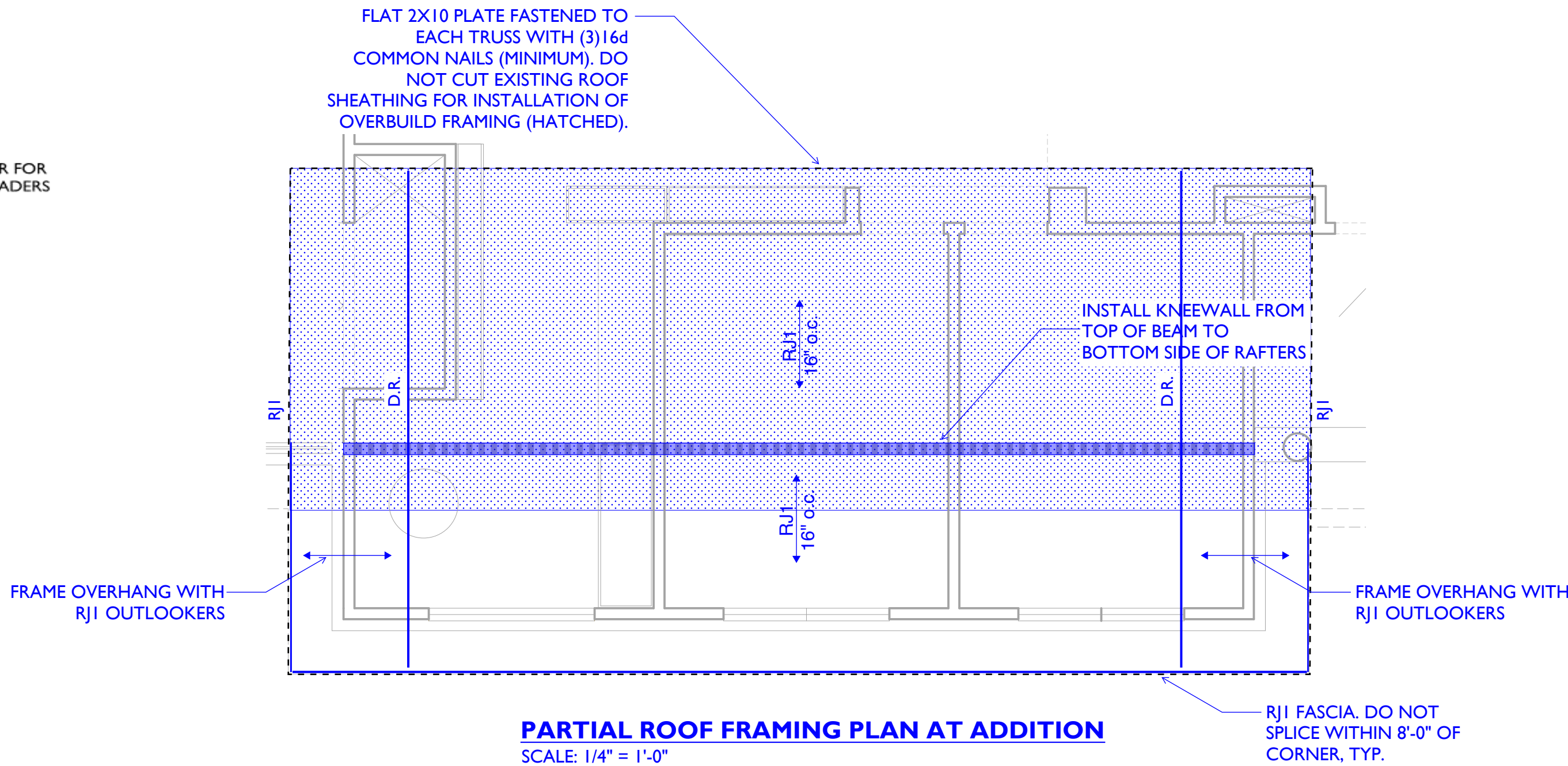
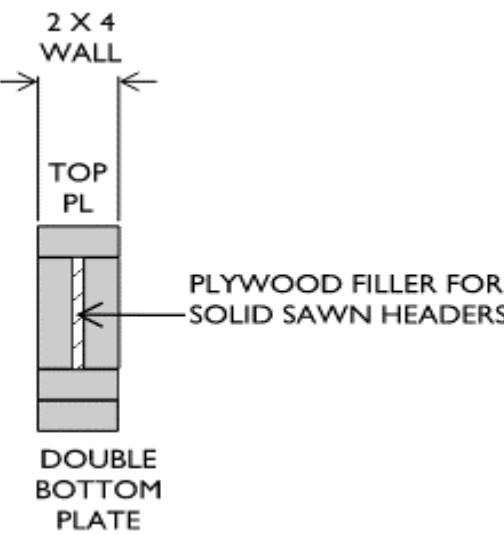
NOTES

1. BUILT-UP STUD COLUMNS SHALL BE SECURELY NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. USE (2) 12d NAILS FOR EACH STUD AT 10" O.C.
2. SEE HEADER SCHEDULE FOR JACK AND KING STUDS REQUIRED AT EACH END OF HEADER.

WOOD HEADER SCHEDULE			
MK#	WOOD SIZE	MAX. SPAN	NOTES
H1	(2) 2 X 8	4'-0"	1,2
H2	(2) 2 X 10	6'-0"	1,2

NOTES

1. PROVIDE ONE STUD UNDER AND TWO FULL HEIGHT STUDS BEYOND EACH END OF H1 AND H2.
2. USE #2 GRADE S-P-F FOR SOLID HEADERS. SIZES SHOWN ARE NOMINAL.



ROOF FRAMING SCHEDULE				
MK#	SIZE	MATERIAL	GRADE	NOTE
AJ1	2 X 6	S-P-F	#2	1
RJ1	2 X 6	S-P-F	#2	1
AB1	3.5 X 9.25	LVL	3100F	2
AB2	W10 X 26	STEEL	A992	3

END REACTIONS	
RyL	RyS
0.1	0.1
0.2	0.2
3.6	3.6
5.8	5.8

NOTES

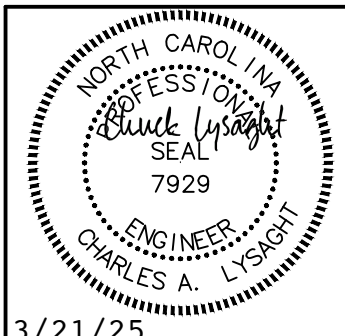
1. SIZE SHOWN IS NOMINAL
2. SIZE SHOWN IS ACTUAL
3. STEEL BEAM SHALL BE SHOP FABRICATED WITH 9/16" DIAMETER HOLES IN TOP AND BOTTOM FLANGE AT 24" O.C. STAGGERED FOR ATTACHMENT OF 2X6 WOOD PLATE WITH 1/2" DIAMETER BOLTS. NUTS/WASHERS SHALL BE COUNTERSUNK 0.5" INTO PLATE FOR FLUSH ATTACHMENT. IN ADDITION, FABRICATE BEAM WITH 9/16" DIA HOLES AT 24" O.C. STAGGERED AT BEAM WEB FOR ATTACHMENT OF WEB BLOCKING AS REQUIRED FOR ATTACHMENT OF FINISHES.

PARTIAL ATTIC / CEILING FRAMING PLAN AT VISITOR CENTER

SCALE: 1/4" = 1'-0"

WOOD SHEAR WALL NOTES

2. ALL NEW EXTERIOR WALLS ARE SHEATHED WITH 7/16" PLYWOOD OR OSB. SHEATHING IS NAILED TO STUDS AND BLOCKING AT ALL JOINTS WITH 8d NAILS AT 4" O.C. AROUND THE PERIMETER, 12" O.C. AT INTERMEDIATE STUDS, ALL HORIZONTAL JOINTS ARE BLOCKED. THE STRUCTURAL SHEATHING EXTENDS UP TO THE UNDERSIDE OF THE ROOF SHEATHING.



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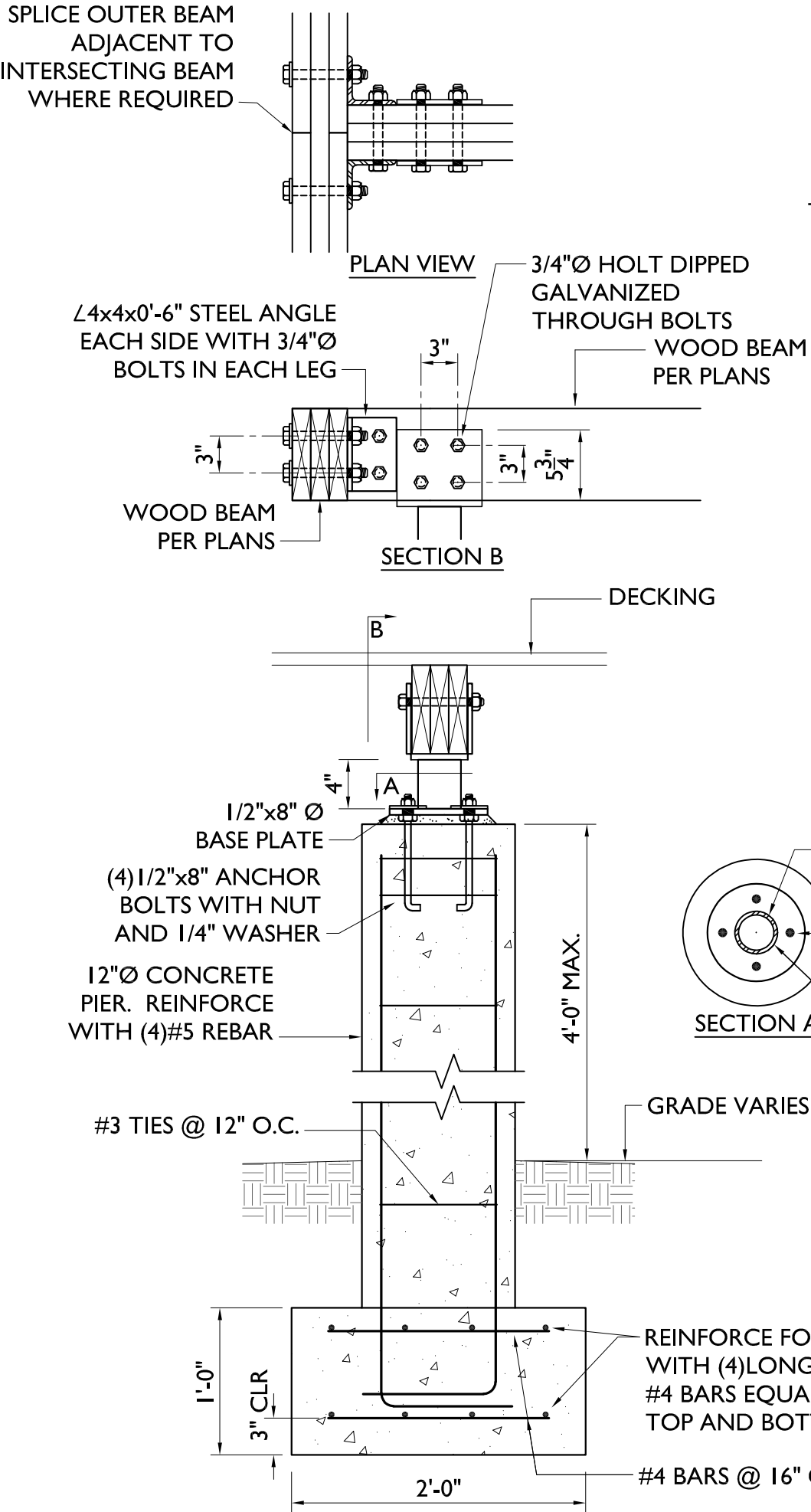
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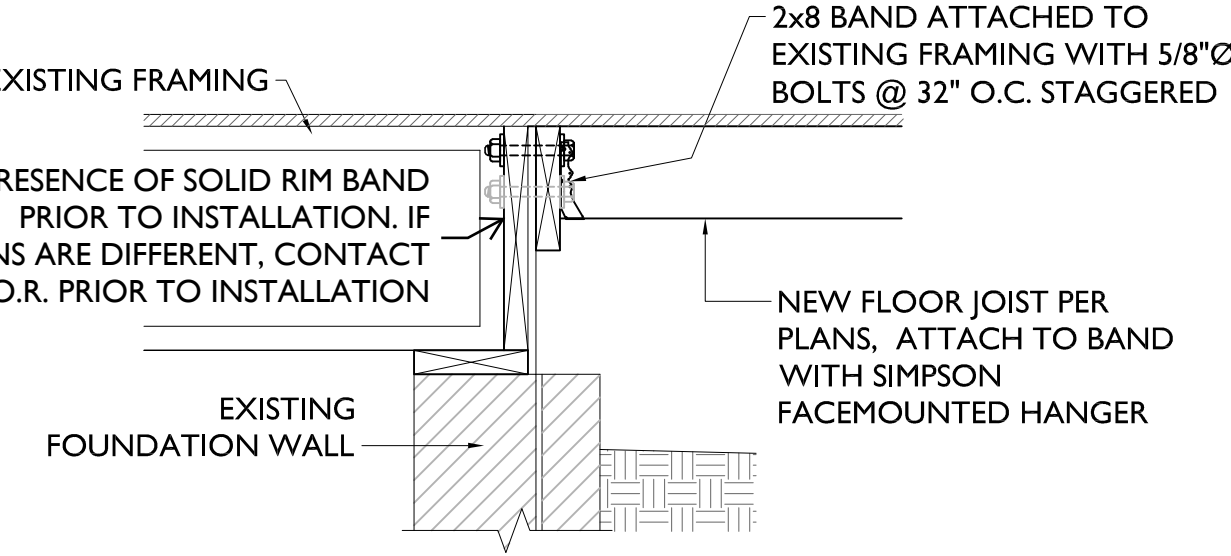
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CHECKED:	<u>DLH</u>
APPROVED:	<u>CAL</u>

SHEET

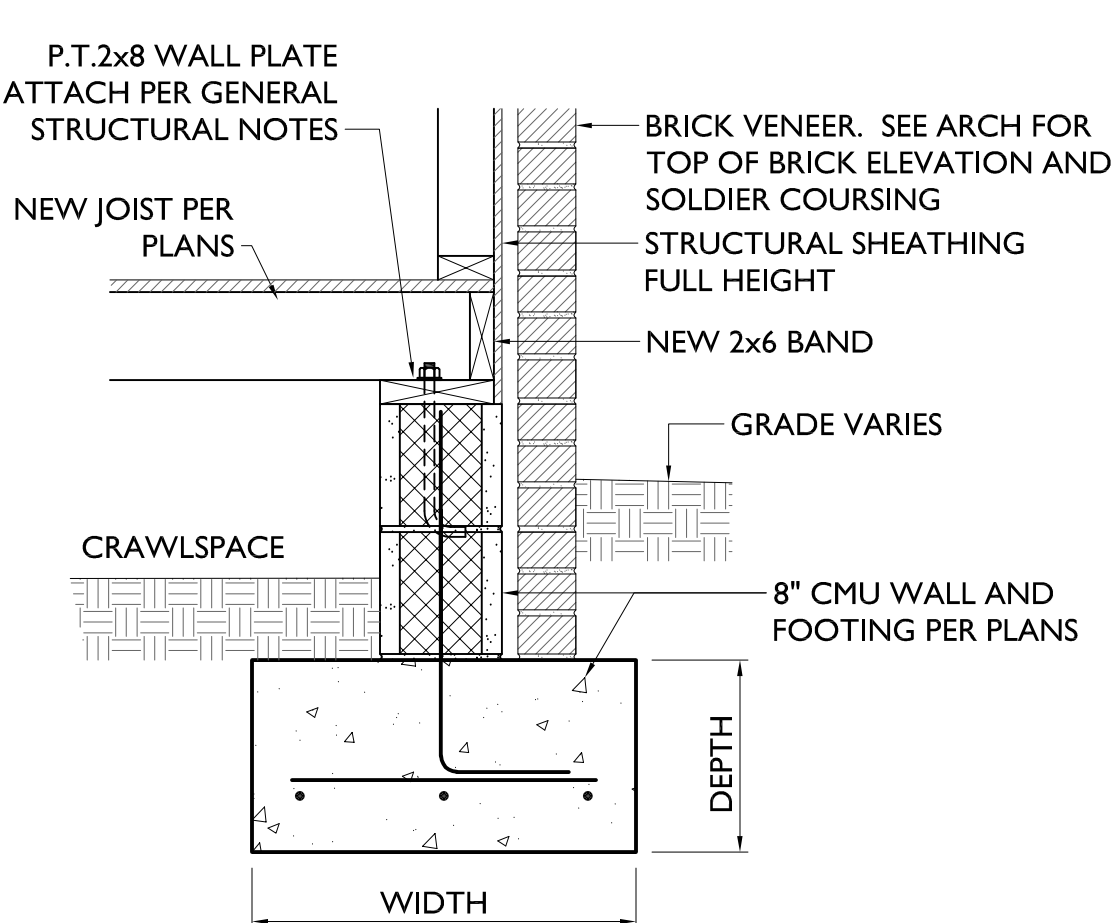
SI.2VC



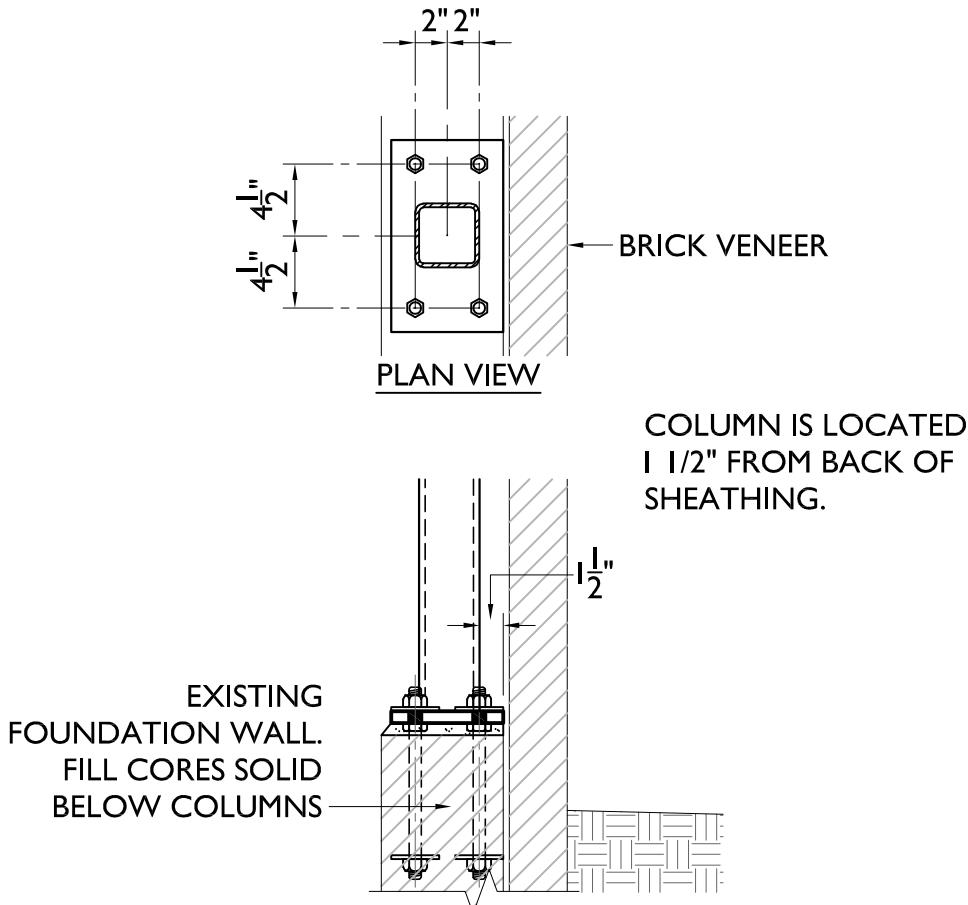
02 SECTION THROUGH BRIDGE FRAMING NOT TO SCALE



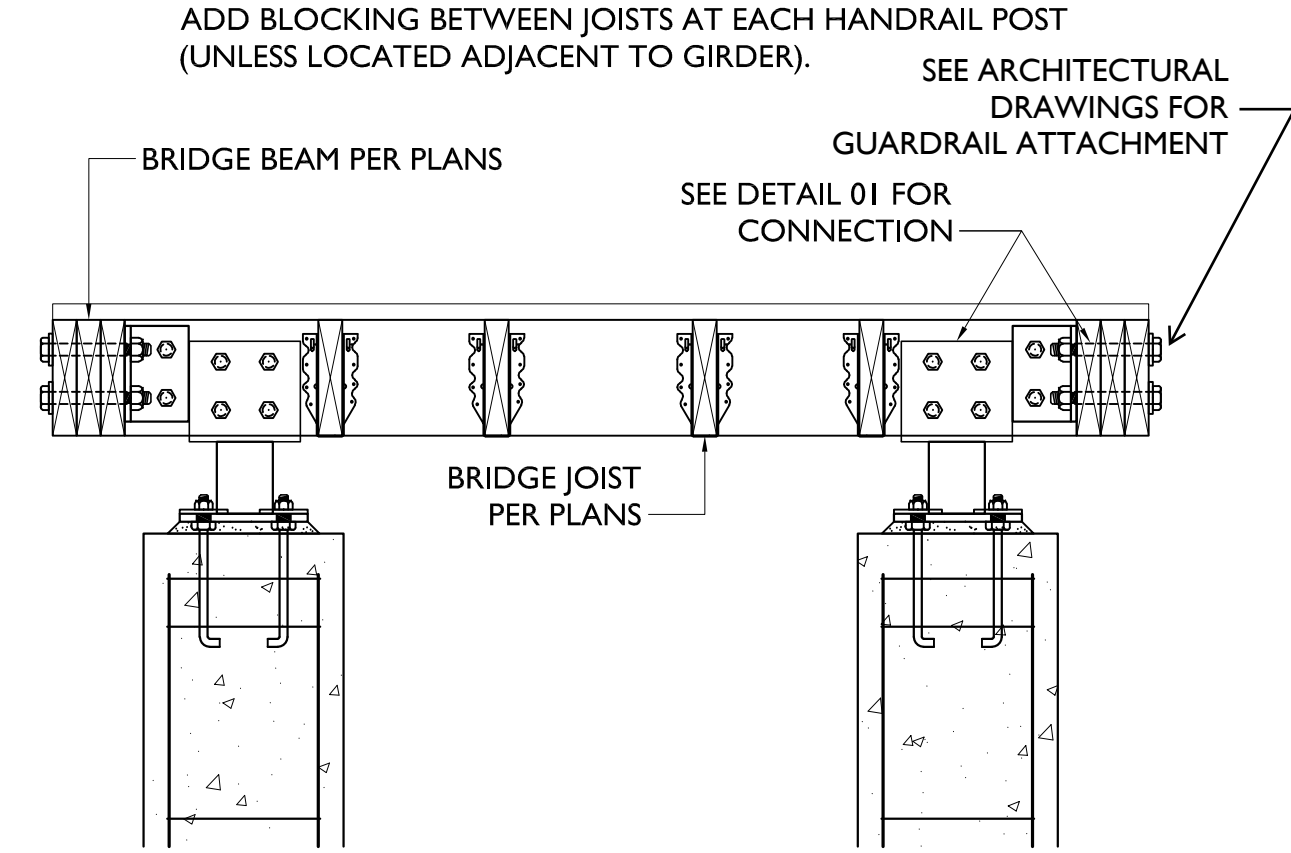
06 SECTION THROUGH ADDITION FRAMING NOT TO SCALE



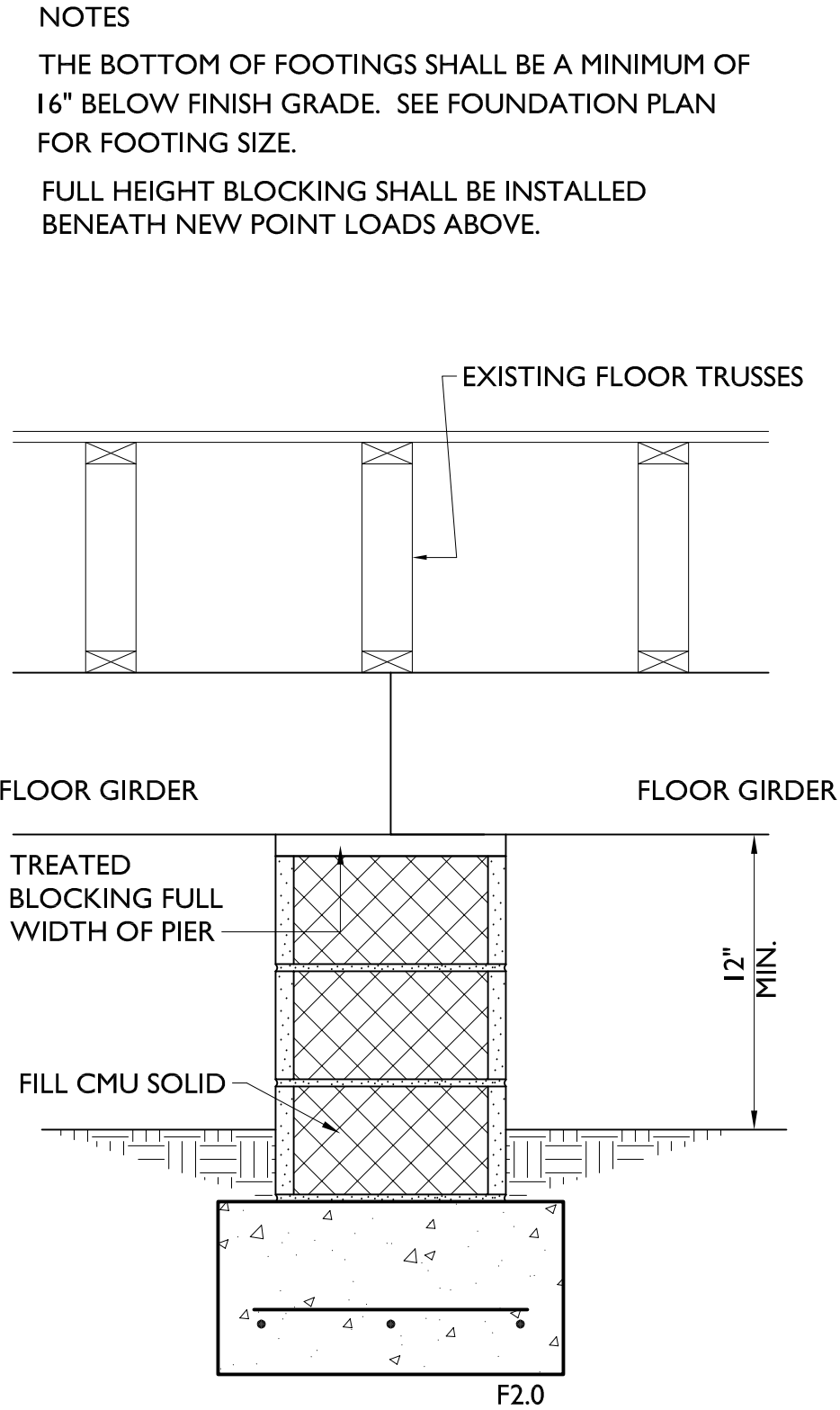
03 SECTION THROUGH FOUNDATION WALL NOT TO SCALE



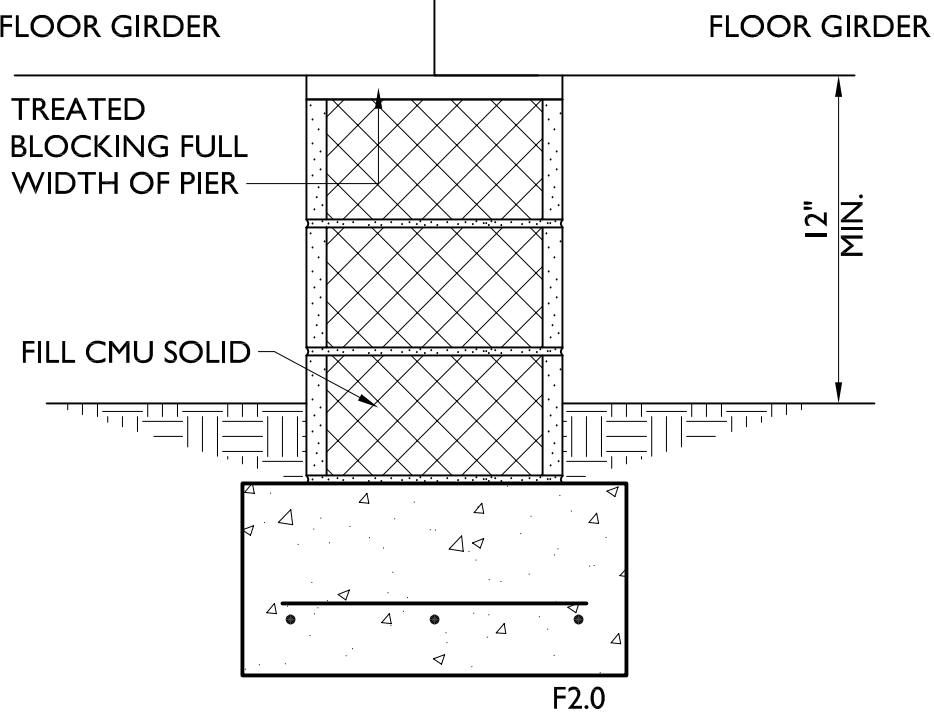
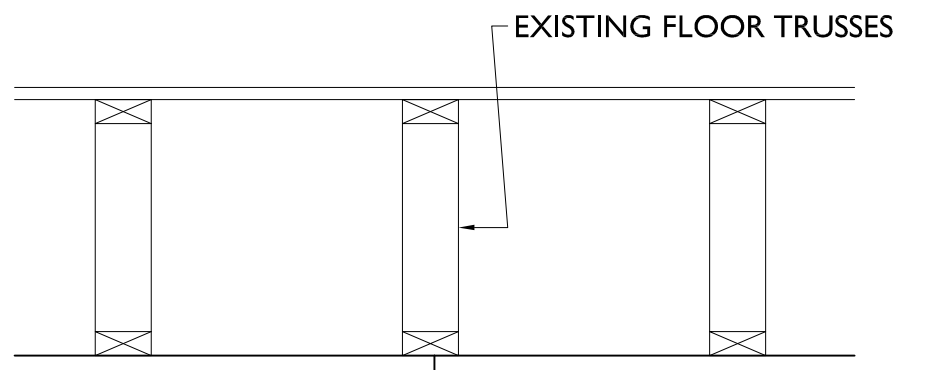
07 CI SETTING DETAIL NOT TO SCALE



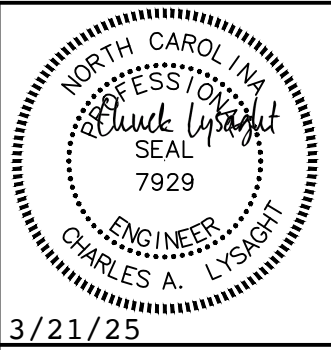
04 SECTION THROUGH BRIDGE NOT TO SCALE



05 PIER FOOTING DETAIL NOT TO SCALE



NOTES
THE BOTTOM OF FOOTINGS SHALL BE A MINIMUM OF 16" BELOW FINISH GRADE. SEE FOUNDATION PLAN FOR FOOTING SIZE.
FULL HEIGHT BLOCKING SHALL BE INSTALLED BENEATH NEW POINT LOADS ABOVE.



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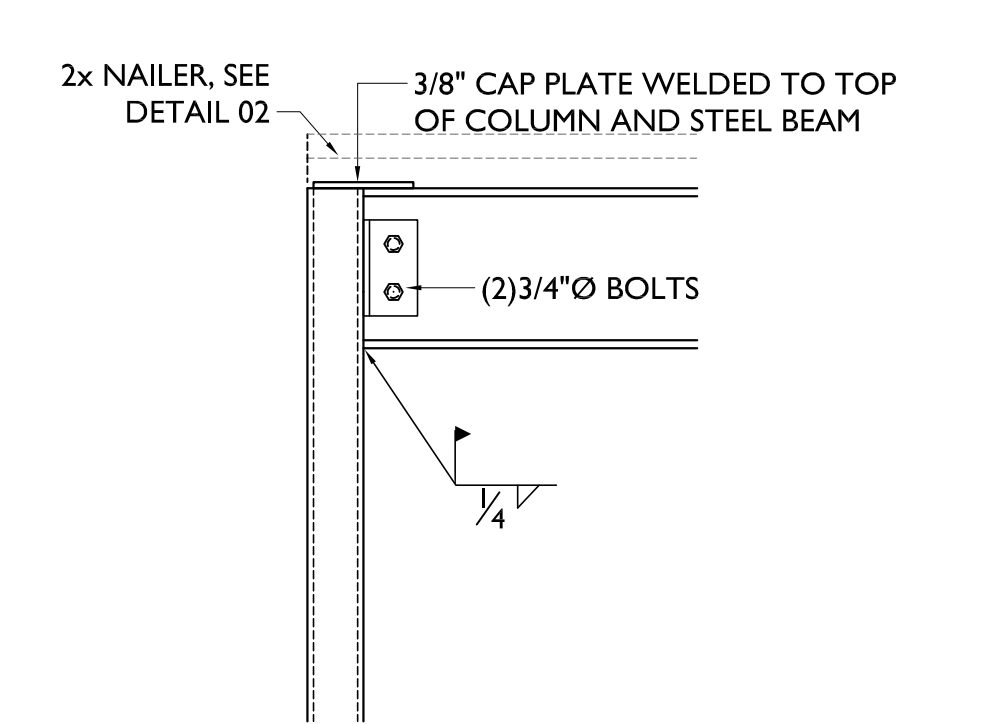


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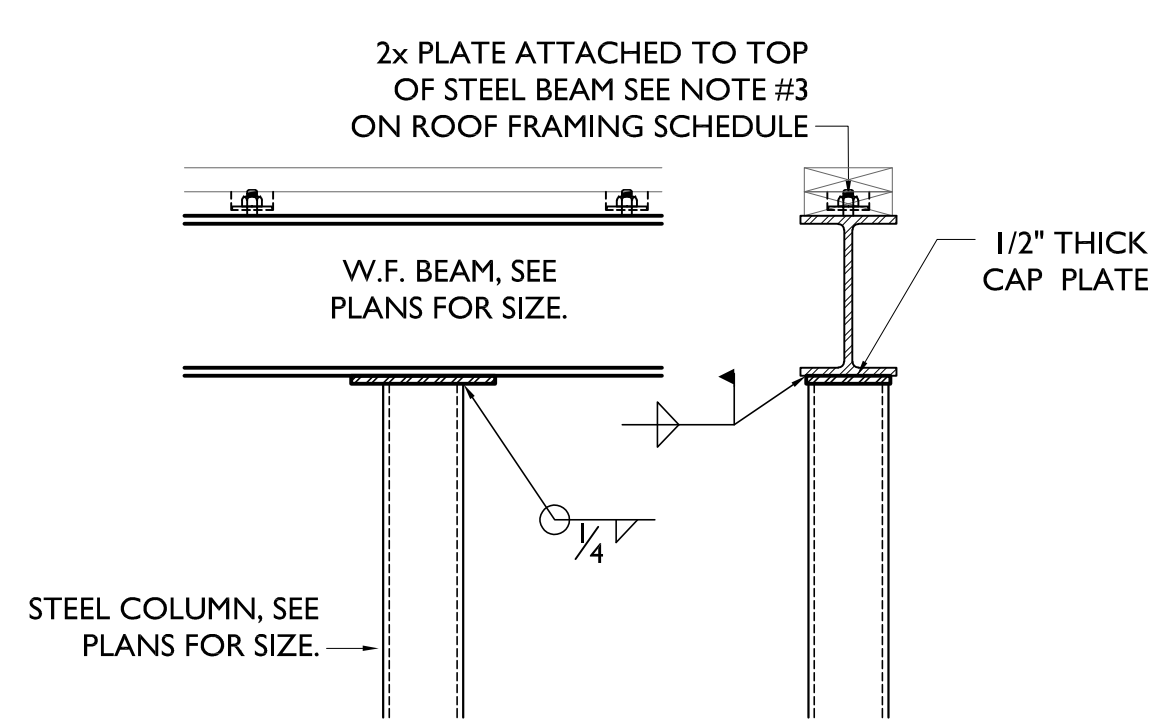
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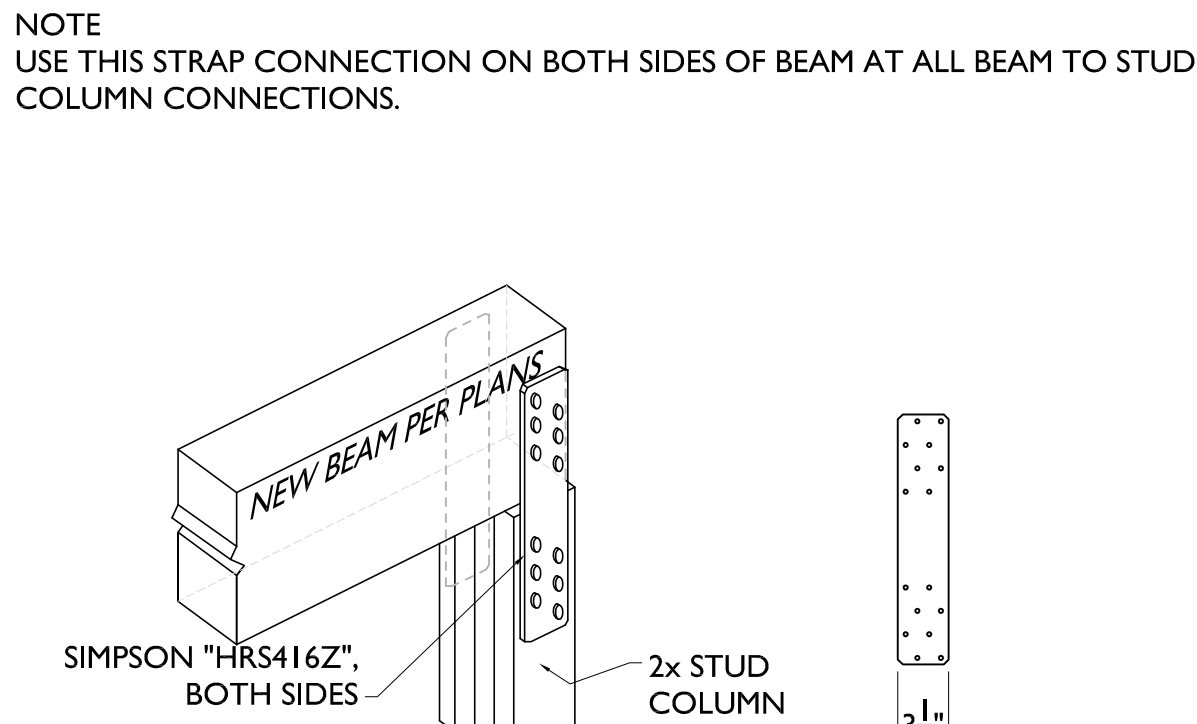
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S4.IVC



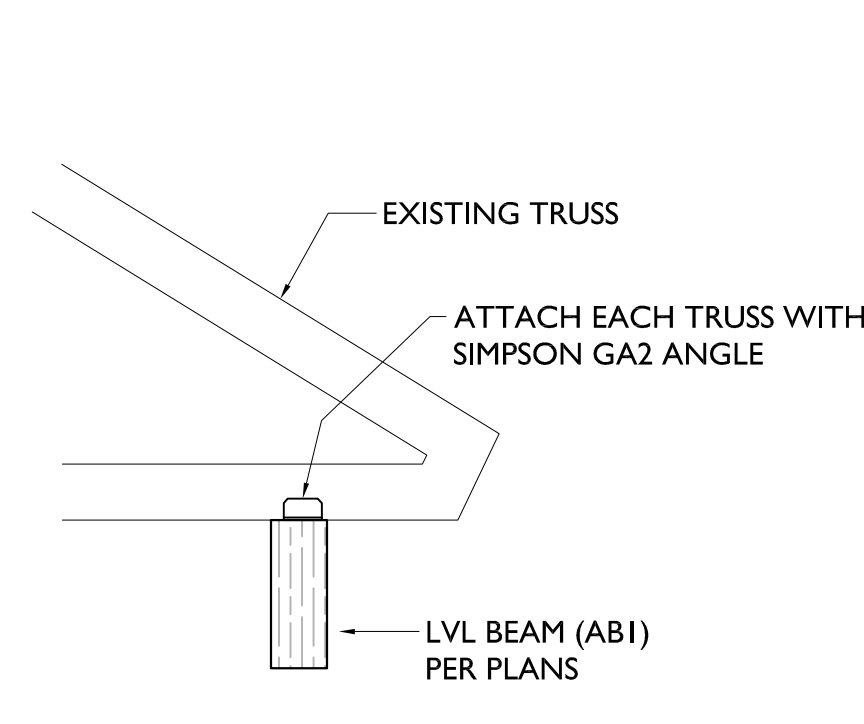
01 STEEL BEAM TO HSS COLUMN MOMENT CONNECTION DETAIL NOT TO SCALE



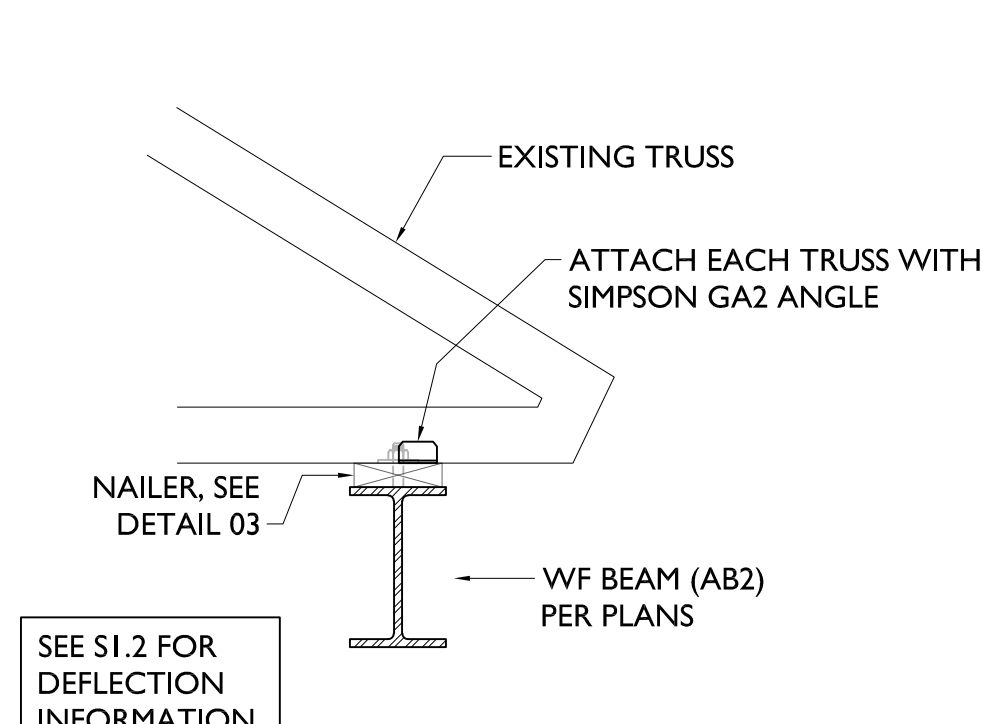
02 STEEL BEAM TO HSS COLUMN MOMENT CONNECTION DETAIL NOT TO SCALE



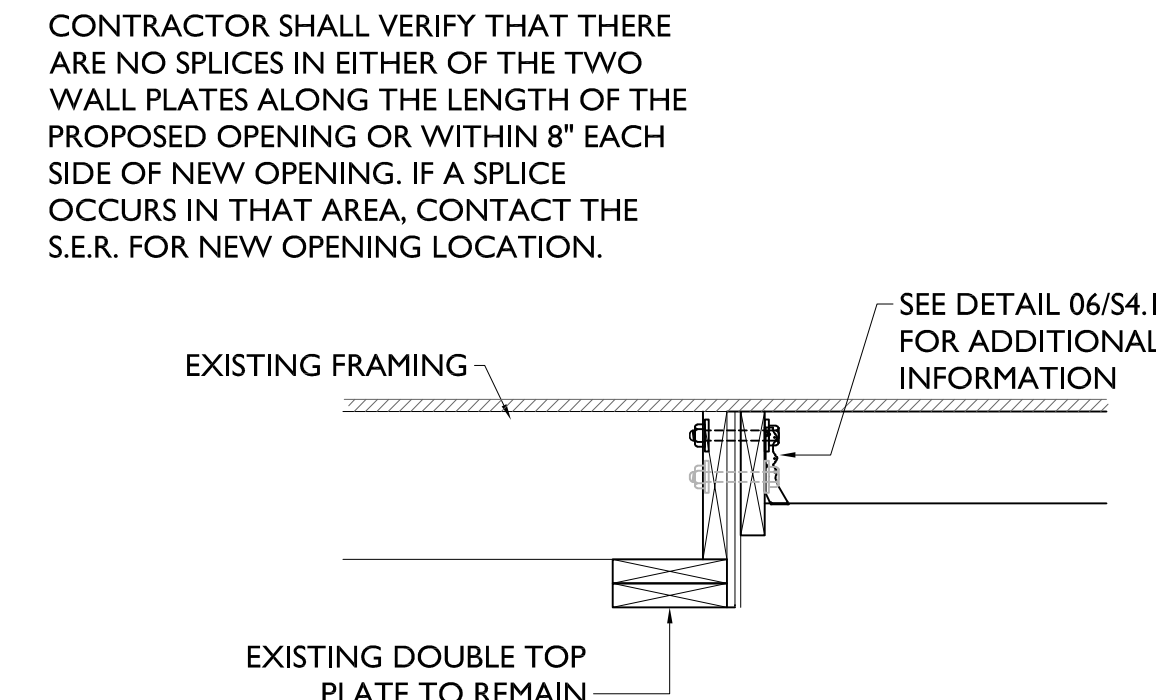
03 WOOD BEAM TO STUD COLUMN CONNECTION NOT TO SCALE



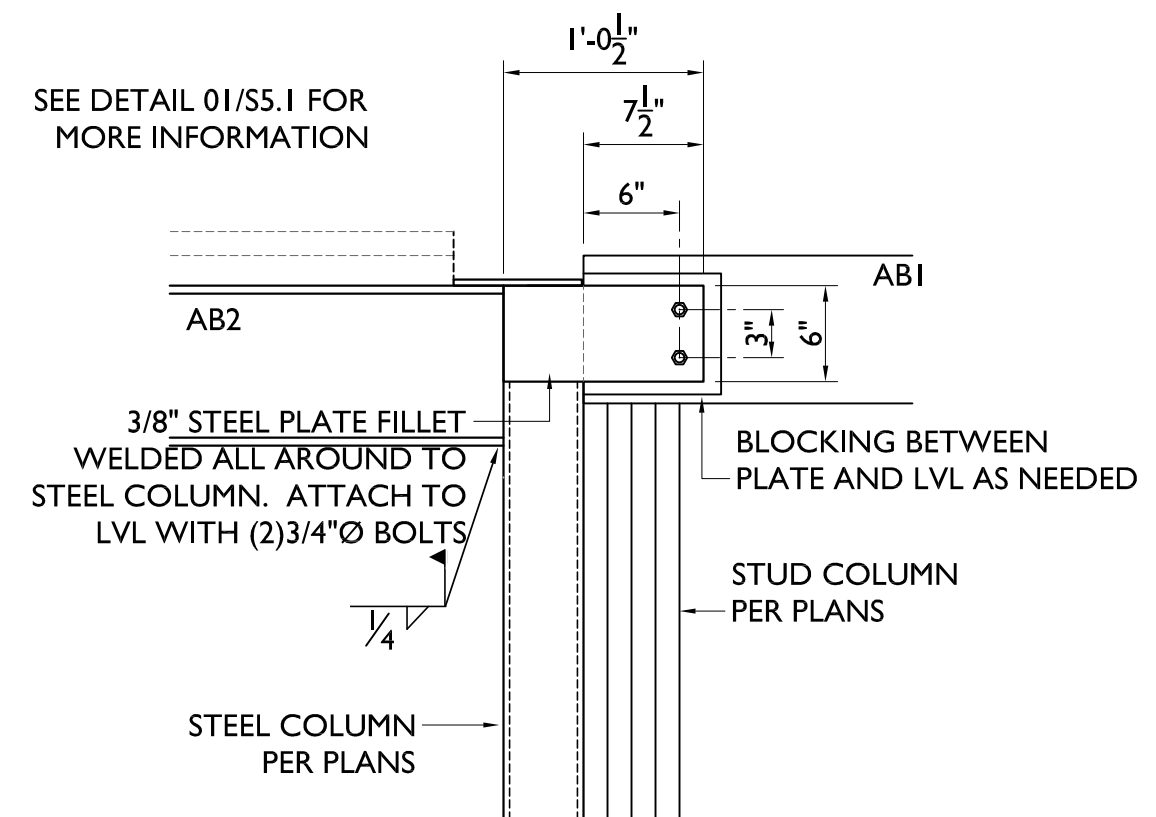
04 EXISTING TRUSS TO LVL BEAM NOT TO SCALE



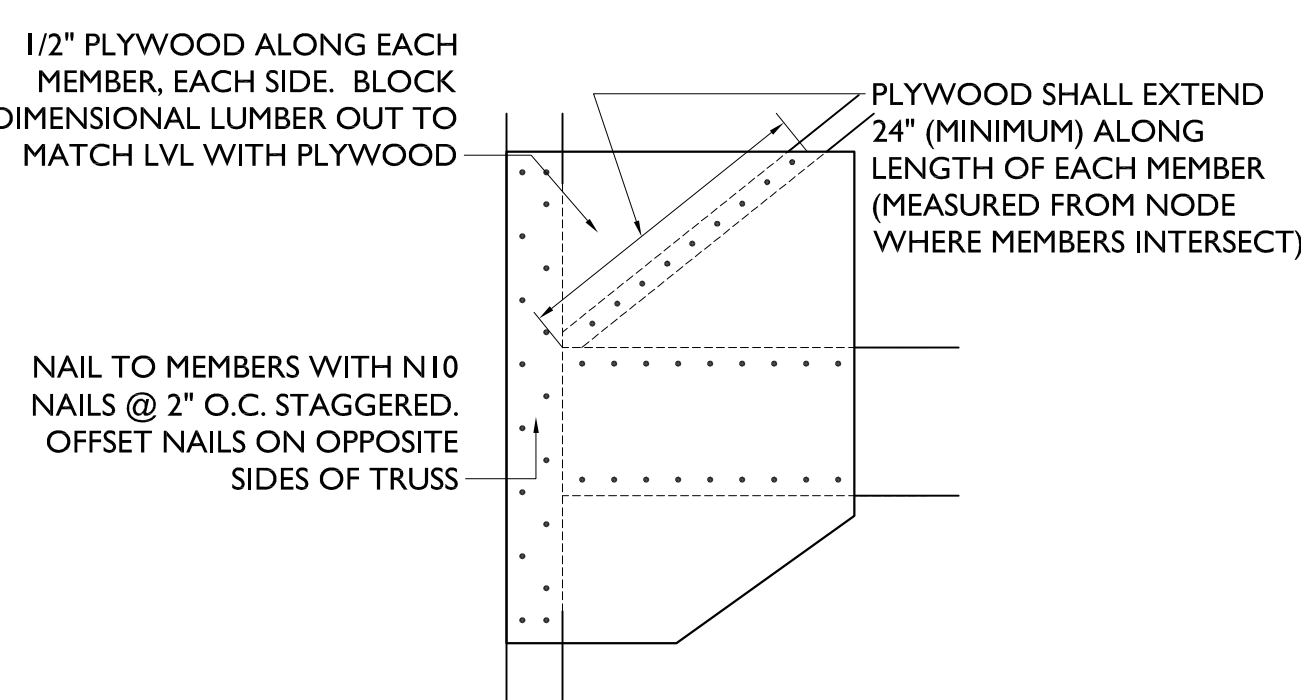
05 EXISTING TRUSS TO WIDE FLANGE BEAM NOT TO SCALE



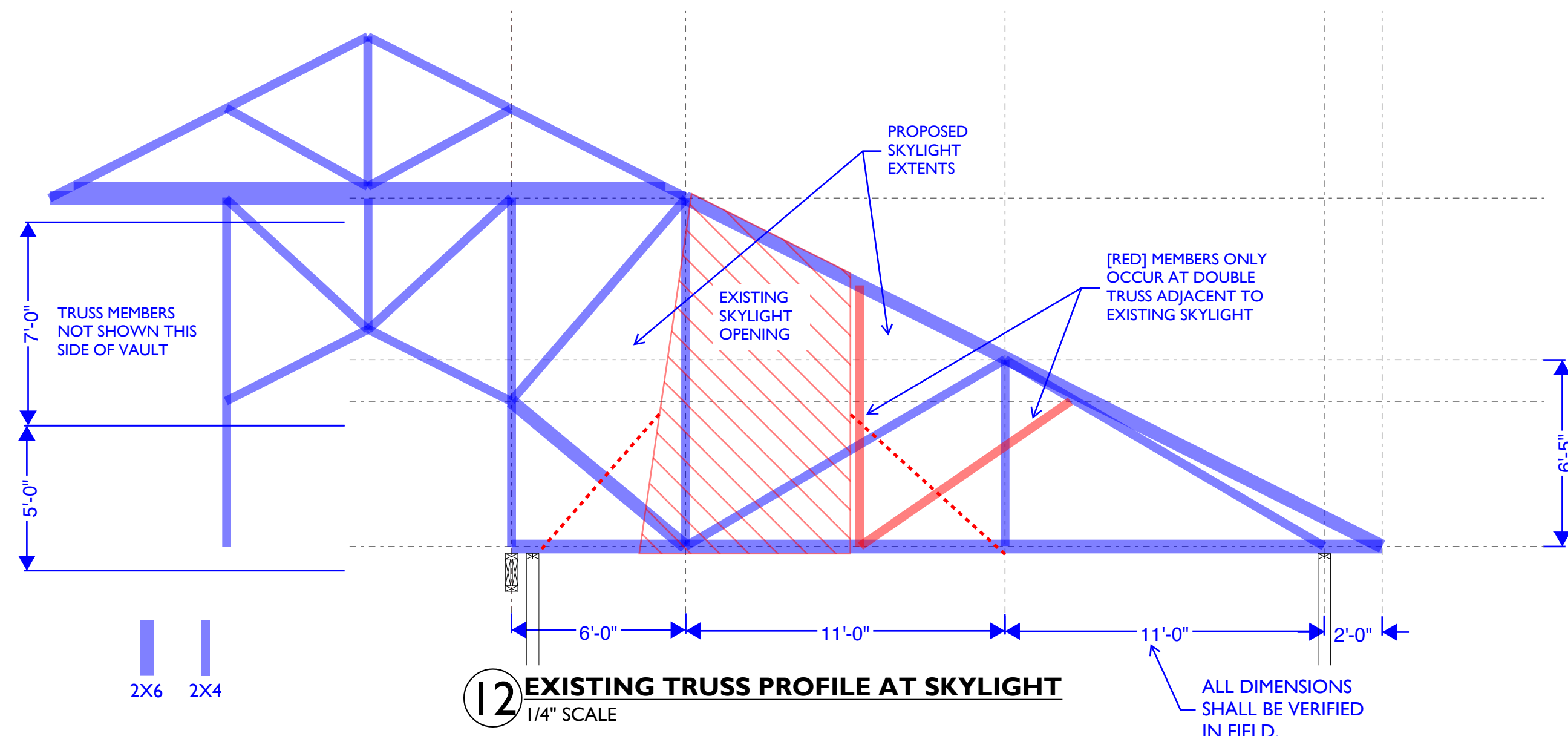
06 SECTION THROUGH EXISTING FRAMING AT NEW OPENING NOT TO SCALE



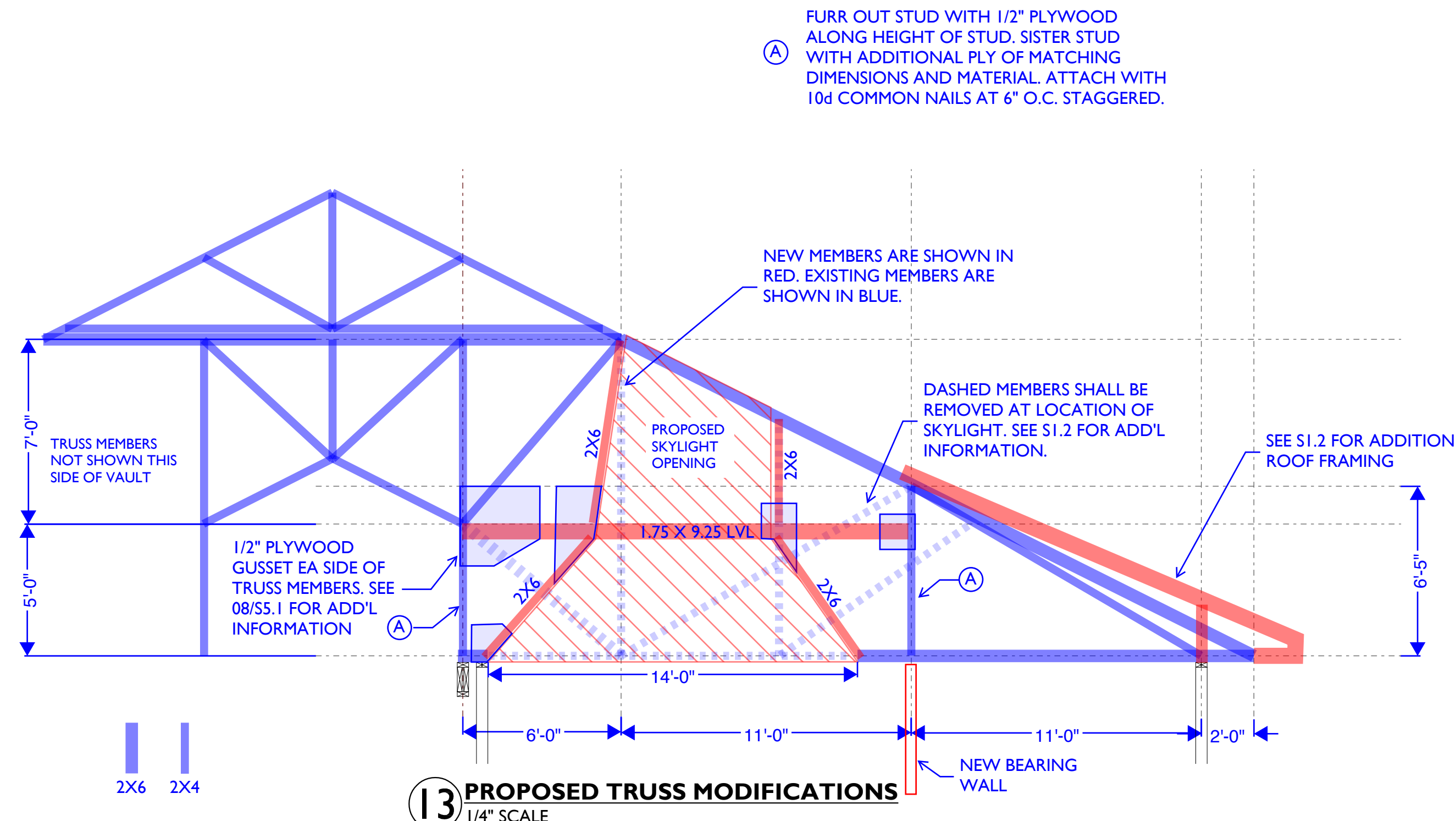
07 LVL TO STEEL COLUMN/BEAM CONNECTION NOT TO SCALE



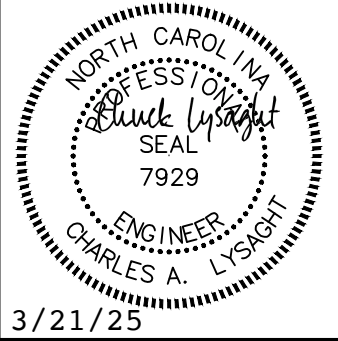
08 NEW PLYWOOD GUSSET DETAIL NOT TO SCALE



12 EXISTING TRUSS PROFILE AT SKYLIGHT 1/4" SCALE



13 PROPOSED TRUSS MODIFICATIONS 1/4" SCALE



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PLUMBING LEGEND			
SYMBOL SCHEDULE		ABBREVIATIONS	
	DOMESTIC COLD WATER	AFC	ABOVE FINISH CEILING
	DOMESTIC HOT WATER SUPPLY	AFF	ABOVE FINISH FLOOR
	DOMESTIC HOT WATER RETURN	AFG	ABOVE FINISH GRADE
	WASTE	AFH	ANTI-FREEZE HYDRANT
	VENT	AAV	AIR ADMITTANCE VALVE
	GAS	BFF	BELOW FINISHED FLOOR
		CI	CAST IRON
		CO	CLEANOUT
		CW	COLD WATER
		DNT	DO NOT TAP
		EWC	ELECTRIC WATER COOLER
		(EX) / (E)	EXISTING
		FCO	FLOOR CLEANOUT
		FD	FLOOR DRAIN
		FDP	FLOOR DRAIN PARKING
		FPHB	FREEZE-PROOF HOSE BIBB
		GPH	GALLONS PER HOUR
		HB	HOSE BIBB
		HD	HUB DRAIN
		GCO	GRADE CLEANOUT
		HWS	HOT WATER SUPPLY
		HWR	HOT WATER RETURN
		IW	INDIRECT WASTE
		LAV	LAVATORY
		(NP)	NON-POTABLE
		TYP	TYPICAL
		UR	URINAL
		V	VENT
		VTR	VENT THRU ROOF
		W	WASTE
		WC	WATER CLOSET
		WCO	WALL CLEANOUT
		WHA	WATER HAMMER
		ARRESTOR	ARRESTOR
		YCO	YARD CLEANOUT
	PIPE ELBOW TURNS DOWN; UP		CONNECT TO EXISTING
	PIPE TEES DOWN; UP		POINT OF DEMOLITION
	PIPE CAP		
	BALL VALVE		
	CHECK VALVE		
	CIRCUIT SETTER		
	FLOOR CLEANOUT		
	END-OF-LINE CLEANOUT		
	CLEANOUT AT FINISH WALL (WCO)		

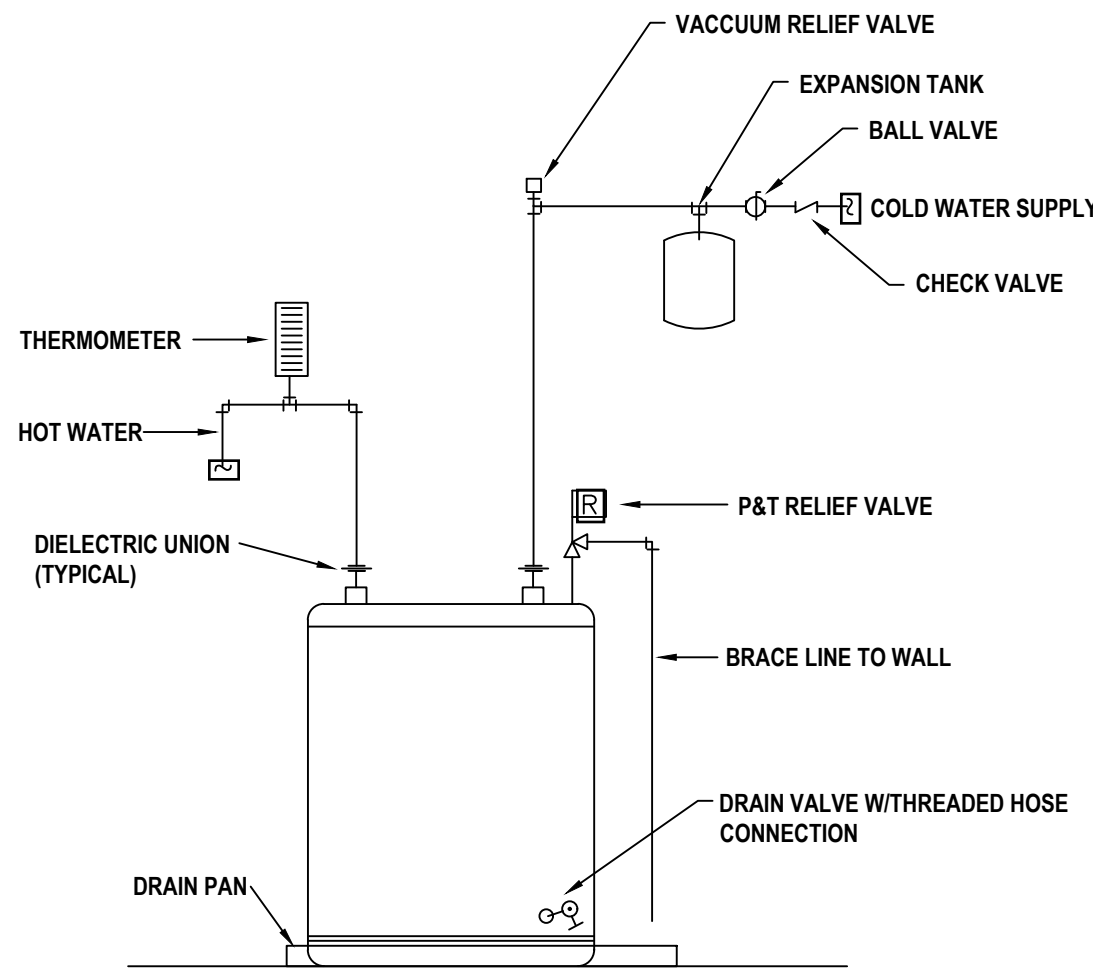
GENERAL PLUMBING NOTES	
1.	NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING MAY BE USED ON THIS PROJECT.
2.	ALL PLUMBING WORK SHALL BE FURNISHED AND INSTALLED PER THE STATE OF NORTH CAROLINA BUILDING CODE: PLUMBING CODE 2018.
3.	UNLESS OTHERWISE NOTED ON DRAWINGS, ALL 1½"-2½" SANITARY WASTE AND VENT PIPING SHALL BE RUN AT ¼" PER FT SLOPE. ALL 3"-6" SANITARY WASTE AND VENT PIPING SHALL BE RUN AT ⅛" PER FT SLOPE. ALL WASTE AND VENT PIPING 8" OR LARGER SHALL BE RUN AT ⅛" PER FT SLOPE. ALL STORM DRAINAGE PIPING SHALL BE RUN AT ⅛" PER FT SLOPE.
4.	THE DESIGN/DETAIL/SCHEDULE SHOWN IS BASED ON (MANUFACTURER, MODEL) EQUIPMENT AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS, AND/OR SUPPORT FOR EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO THE OTHER BUILDING SYSTEMS.
5.	INSTALL ALL PIPING AT THE MAXIMUM ELEVATION POSSIBLE. PROVIDE ALL FITTINGS, TRANSITIONS AND MATERIALS REQUIRED TO ACHIEVE MAXIMUM ELEVATION. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START OF WORK TO AVOID CONFLICTS.
6.	CONTRACTOR SHALL FURNISH ALL DISCONNECTS REQUIRED FOR PLUMBING EQUIPMENT.
7.	CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL MANUFACTURER SUBSTITUTIONS OF PLUMBING EQUIPMENT. SUBMIT A DESCRIPTION OF ANY/ALL CHANGES REQUIRED BY THE SUBSTITUTION, INCLUDING ELECTRICAL AND MECHANICAL CONNECTIONS, SIZES, WEIGHTS, AND CLEARANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COST ASSOCIATED WITH THE SUBSTITUTION.
8.	THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY CONFLICTS AS SOON AS THEY ARE DETECTED.
9.	CONTRACTORS MUST CAREFULLY COORDINATE THE ARRANGEMENT AND INSTALLATION OF THE DUCT, PIPING, AND CONDUIT IN THE MECHANICAL CHASES PRIOR TO THE START OF WORK. ALL PENETRATIONS SHALL BE SLEEVED AND FIRE-PROOFED.
10.	ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EX", "EXISTING", OR "EXIST".
11.	VERIFY LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.
12.	THESE DRAWINGS ARE NECESSARILY DIAGRAMMATIC IN NATURE. NOT ALL FITTINGS, OFFSETS, VENTS, OR DRAINS ARE SHOWN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND INCLUDE ALL FITTINGS, OFFSETS, VENTS, AND DRAINS AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.

PLUMBING FIXTURE SCHEDULE												
MARK	FIXTURE	FIXTURE				FAUCET					REMARKS	COMPLIES WITH ADA
		SPECIFICATION/DESCRIPTION	SAN	VENT	PICTURE	DESCRIPTION	COLD WATER	HOT WATER	FLOW RATE	PICTURE		
KS-1	KITCHEN SINK	RUVANTI RVH8003, 33"x22"x9", SINGLE BOWL, 16 GA STAINLESS STEEL CONSTRUCTION, TOP MOUNT, REAR DRAIN, BOTTOM RINSE GRID	1½"	1½"		DELTA 9659T-DST OR EQUAL SINGLE HANDLE KITCHEN FAUCET WITH SPRAY, 1.5GPM SPOUT, CHROME FINISH. PROVIDE WITH VANDAL-PROOF AERATOR.	½"	½"	1.5GPM		PROVIDE TURN BALL VALVES, AND P-TRAP w/CLEANOUT. PROVIDE CASEWORK COORDINATION DRAWING WITH SUBMITTAL DATA TO VERIFY PROPOSED SINK AND TRAP CAN BE PROPERLY INSTALLED WITHOUT MODIFICATIONS.	

NOTES:
1. PLUMBING FAUCETS SPECIFIED ARE GENERALLY DELTA. FAUCETS AS MANUFACTURED BY T&S BRASS OR CHICAGO MAY BE SUBMITTED FOR APPROVAL PROVIDED THE SELECTION IS STRICTLY APPROVED EQUIVALENT.

ELECTRIC WATER HEATER SCHEDULE													
MARK	LOCATION	SPECIFICATION/DESCRIPTION	GALLON CAPACITY	FIRST HOUR RATING GALLONS	ENERGY FACTOR MIN.	RECOVERY GAL./HR @ 90°	ELECTRICAL SERVICE			DIMENSIONS			REMARKS
							VOLTS	PHASE	WATTS	WIDTH	DEPTH	HEIGHT	
EW1-1	BREAKROOM 102	AO SMITH PROLINE EJCS-20	19	17	ST	11	120	1	2500	24	24	18	COORDINATE INSTALLATION WITH NEW CASEWORK. REFER TO ARCH. PLANS

NOTES:
1. WATER HEATERS BY RHEEM, SIEBEL, AND STATE SHALL BE CONSIDERED EQUALS.



1
P001 **ELECTRIC WATER HEATER DETAIL**
Scale: NONE

SPECIFICATIONS: REFER TO PROJECT MANUAL FOR COMPLETE JOB REQUIREMENTS

- 1.1 VIBRATION CONTROL AND SEISMIC-RESTRAINT DEVICE INSTALLATION

A. Installation of vibration isolators must not cause any change of position of equipment, piping, or ductwork resulting in stresses or misalignment.

B. Equipment Restraints:

 1. Install seismic snubbers on plumbing equipment mounted on vibration isolators. Locate snubbers as close as possible to vibration isolators and bolt to equipment base and supporting structure.
 2. Install resilient bolt isolation washers on equipment anchor bolts where clearance between anchor and adjacent surface exceeds 0.125 inch (3.2 mm).
 3. Install seismic-restraint devices using methods approved by an agency acceptable to authorities having jurisdiction that provides required submittals for component.

E. Piping Restraints:

 1. Comply with requirements in MSS SP-127.

Space lateral supports a maximum of 40 feet (12 m) o.c., and longitudinal supports a maximum of 80 feet (24 m) o.c.

 2. Brace a change of direction longer than 12 feet (3.7 m).

F. Install cables so they do not bend across edges of adjacent equipment or building structure.

G. Install bushing assemblies for anchor bolts for floor-mounted equipment, arranged to provide resilient media between anchor bolt and mounting hole in concrete base.

H. Install bushing assemblies for mounting bolts for wall-mounted equipment, arranged to provide resilient media where equipment or equipment-mounting channels are attached to wall.

I. Attachment to Structure: If specific attachment is not indicated, anchor bracing to structure at flanges of beams, at upper truss chords of bar joists, or at concrete members.

J. Drilled-in Anchors:

 1. Identify position of reinforcing steel and other embedded items prior to drilling holes for anchors. Do not damage existing reinforcing or embedded items during coring or drilling. Notify the structural engineer if reinforcing steel or other embedded items are encountered during drilling. Locate and avoid prestressed tendons, electrical and telecommunications conduit, and gas lines.
 2. Do not drill holes in concrete or masonry until concrete, mortar, or grout has achieved full design strength.
 3. Wedge Anchors: Protect threads from damage during anchor installation. Heavy-duty sleeve anchors shall be installed with sleeve fully engaged in the structural element to which anchor is to be fastened.
 4. Set anchors to manufacturer's recommended torque, using a torque wrench.
 5. Install zinc-coated steel anchors for interior and stainless-steel anchors for exterior applications.
- 2.1 SUPPLY WATER PIPING SCHEDULE

A. Transition and special fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.

B. Flanges and unions may be used for aboveground piping joints unless otherwise indicated.

C. Under-building-slab, domestic water, building service piping, NPS 3 and smaller, shall be the following:

 1. Soft copper tube, ASTM B 88, Type K; wrought-copper solder-joint fittings; and brazed joints.
 2. Concrete-lined DIP with integral flanges. "Mega Lug" - type fittings will not be accepted.

D. Aboveground domestic water piping, NPS 1" and smaller except for flush valves shall be the following:

 1. Hard copper tube, ASTM B 88, Type L wrought-copper solder-joint fittings; and soldered joints.

E. Aboveground domestic water piping, NPS 1½" and larger and for all flush valves shall be the following:

 1. Hard copper tube, ASTM B 88, Type M copper with brazed joints and fittings.
- 2.1 WASTE AND VENT PIPING APPLICATIONS

A. Special pipe fittings with pressure ratings at least equal to piping pressure ratings may be used in applications below, unless otherwise indicated.

B. Above ground Waste, Vent piping

 1. Hub and Spigot Schedule 40 Cast Iron.

C. Roof leader and storm piping shall be

 1. Hub and Spigot Schedule 40 Cast Iron.

D. Underground, storm drain, soil, waste, and vent piping NPS 5 (DN 125) and smaller shall be the following:

 1. Hub and Spigot Schedule 40 Cast Iron.
- 3.1 INDOOR PIPING INSULATION SCHEDULE

A. Domestic Hot and Recirculated Hot Water: Insulation shall be one of the following:

 1. Flexible Elastomeric:
 - a. Pipes 1" and larger 1 inch (25 mm) thick.
 2. Mineral-Fiber, Preformed Pipe Insulation, Type I:
 - a. Pipes 1" and larger 1 inch (25 mm) thick.

B. Domestic Cold Water (Potable): Insulation shall be one of the following:

 1. Flexible Elastomeric: 1 inch (25 mm) thick.
 2. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch (25 mm) thick.

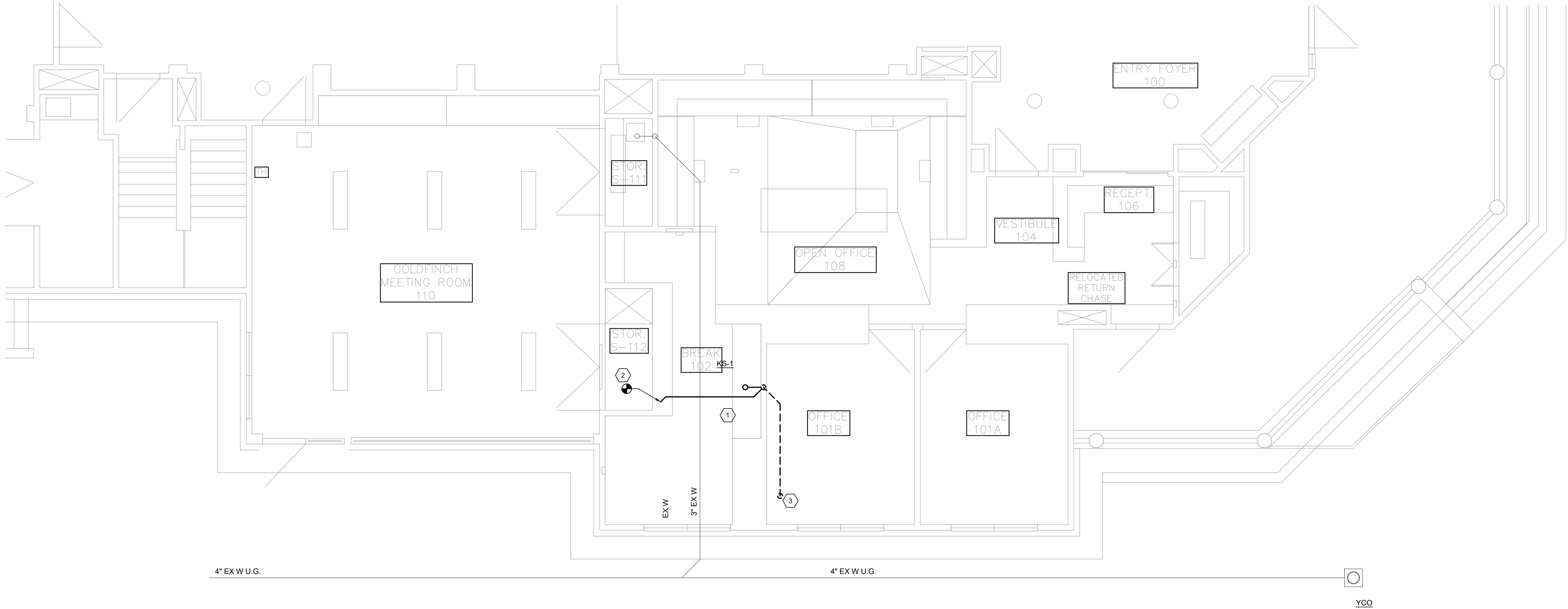
C. Stormwater and Overflow: Insulation shall be one of the following:

 1. Flexible Elastomeric: 1 inch (25 mm) thick.
 2. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch (25 mm) thick.

D. Roof Drain and Overflow Drain Bodies: Insulation shall be one of the following:

 1. Flexible Elastomeric: 1 inch (25 mm) thick.
 2. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch (25 mm) thick.





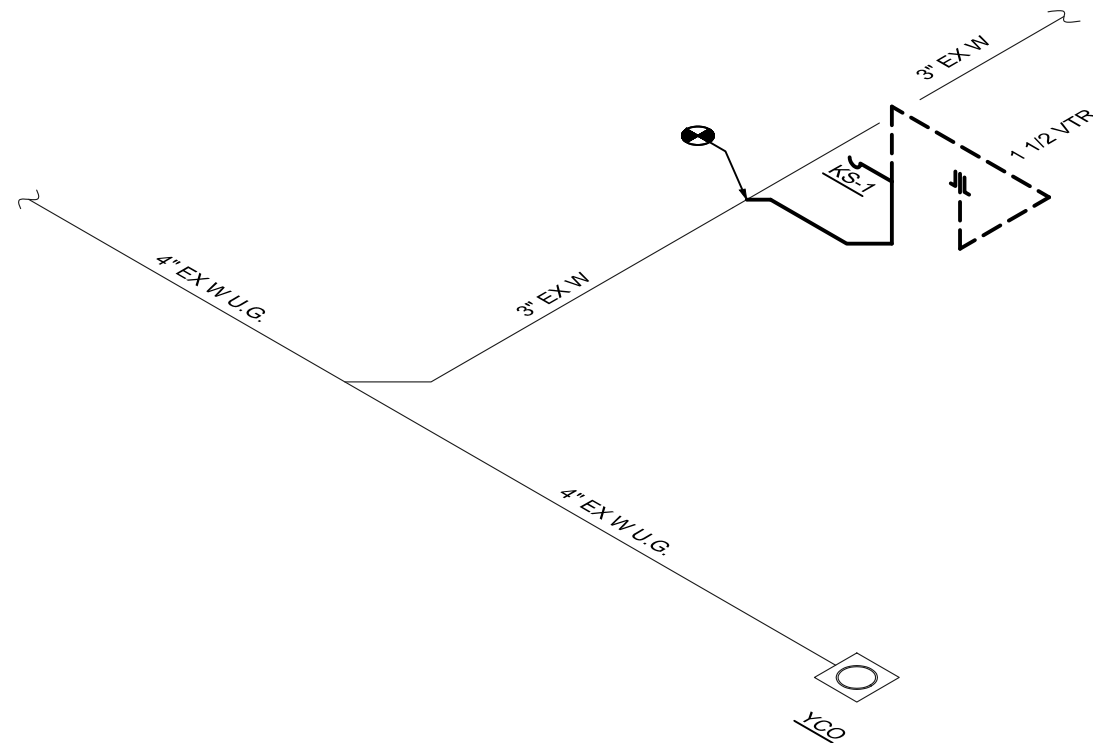
01 PLUMBING WASTE & VENT NEW WORK PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

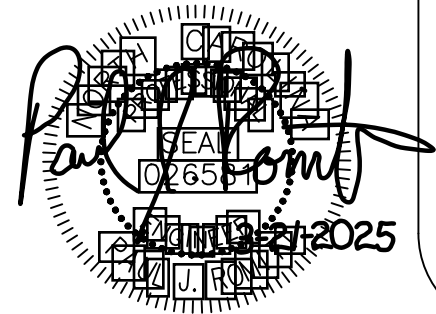
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING SERVICES AND EQUIPMENT PRIOR TO DEMOLITION.
2. G.C. AND DIV 22 CONTRACTOR SHALL COORDINATE LOCATION OF ALL EQUIPMENT, DEVICES, AND PENETRATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES:

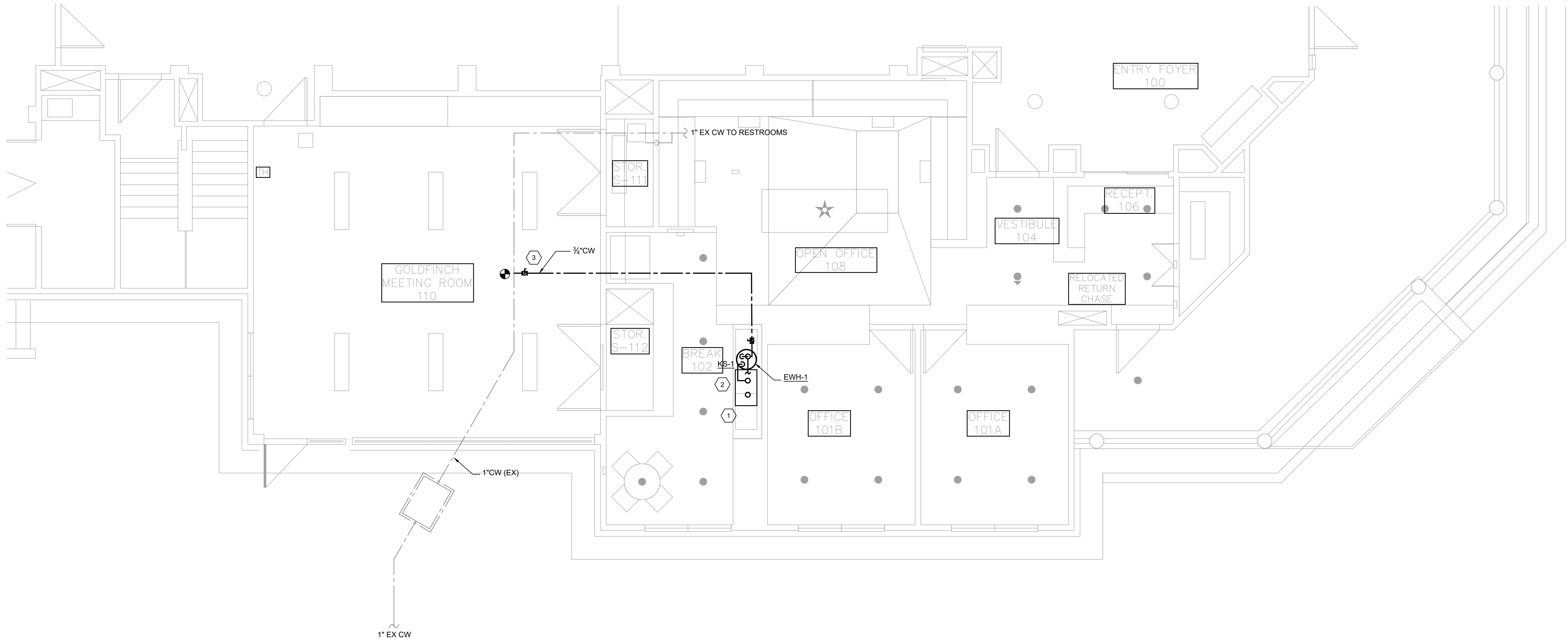
1. INSTALL NEW FIXTURE WHERE INDICATED. ALL WATER PIPING SHALL BE NEW. ALL VENT PIPING SHALL BE NEW AND CONNECTED TO EXISTING VTR IN AREA.
2. CONNECT NEW PVC SANITARY WASTE IN APPROXIMATELY THIS LOCATION PRIOR TO TURN DOWN BELOW GRADE.
3. ROUTE NEW 9\"/>



02 PLUMBING WASTE AND VENT RISER DIAGRAM
NTS



01 PLUMBING WATER & GAS NEW WORK PLAN
SCALE: 1/4" = 1'-0"

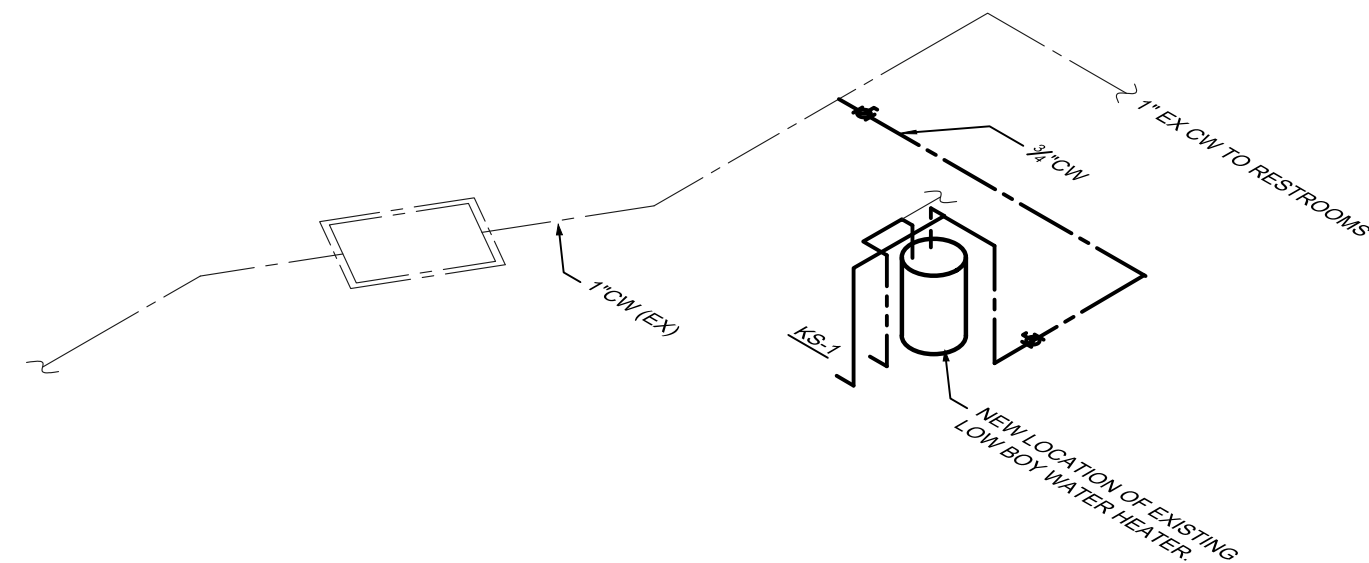


GENERAL NOTES:

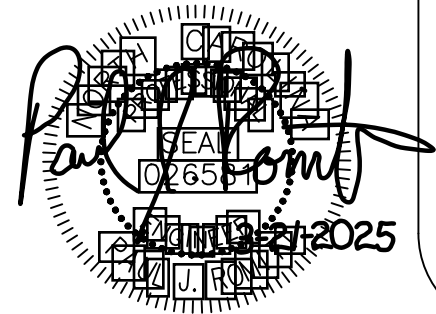
1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING PLUMBING SERVICES AND EQUIPMENT PRIOR TO DEMOLITION.
2. G.C. AND DIV 22 CONTRACTOR SHALL COORDINATE LOCATION OF ALL EQUIPMENT, DEVICES, AND PENETRATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES:

1. INSTALL NEW FIXTURE WHERE INDICATED. ALL WATER PIPING SHALL BE NEW. ALL VENT PIPING SHALL BE NEW AND CONNECTED TO EXISTING VTR IN AREA. INSTALL NEW ISOLATION VALVE AT CONNECTION TO EXISTING AND ON BRANCH LINE TO NEW BREAK ROOM FIXTURE.
2. INSTALL NEE LOW-BOY WATER HEATER BELOW NEW SINK. RECONNECT EXISTING COLD WATER FROM MAIN. RECONNECT ETR SINK TO HOT WATER AT NEW LOCATION. CONNECT NEW KSI-1 TO WATER HEATER.
3. INSTALL NEW 3/4\"/>



02 PLUMBING WATER RISER DIAGRAM
NTS



MECHANICAL SYSTEMS
ENERGY CODE COMPLIANCE

PRESCRPTIVE: ☒

ENERGY COST BUDGET: ☐

THERMAL ZONE: 4A

EXTERIOR DESIGN CONDITIONS:
WINTER DRY BULB: 14°F
SUMMER DRY BULB: 94°F
SUMMER WET BULB: 76°F

INTERIOR DESIGN CONDITIONS:
WINTER DRY BULB: 70°F
SUMMER DRY BULB: 75°F


AREA HEAT LOAD: EXISTING

AREA COOLING LOAD: EXISTING

MECHANICAL CONDITIONING SYSTEM:
DESCRIPTION OF UNIT: SPLIT SYSTEM HEAT PUMPS (EXISTING)
HEATING EFFICIENCY: EXISTING
COOLING EFFICIENCY: EXISTING
HEATING OUTPUT: EXISTING
COOLING OUTPUT: EXISTING

BOILER OUTPUT: N/A
CHILLER TOTAL CAPACITY: N/A


DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 ENERGY CONSERVATION CODE.

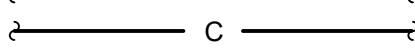
SIGNED: 

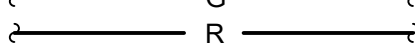
NAME: PAUL J ROMITI, PE
TITLE: MECHANICAL ENGINEER


MECHANICAL LEGEND

PIPING SYMBOLS














REMOVE EXISTING PIPE
EXISTING PIPE TO REMAIN
CONDENSATE
GAS
REFRIGERANT

MISCELLANEOUS SYMBOLS AND ABBREVIATIONS





TERMOSTAT OR TEMPERATURE INDICATOR
HUMIDITY SENSOR
CARBON DIOXIDE SENSOR


DEVICES WITH OPERABLE CONTROLS SUCH AS THERMOSTATS SHALL BE MOUNTED BETWEEN 44" AND 48" A.F.F. COMPLIANT WITH ADA HEIGHTS. COORDINATE WITH OTHER DEVICES.



REVISION NOTES
SPECIFIC OR NEW WORK NOTES




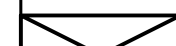


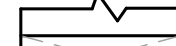


CONNECT TO EXISTING
POINT OF DEMOLITION

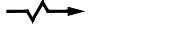
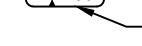
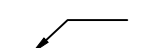






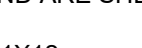
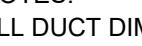
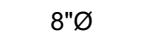


SUBJECT OF DEMOLITION

DUCTWORK SYMBOLS



DUCT DROP
DUCT RISE
SUPPLY OR MAKE-UP AIR
RETURN OR RELIEF AIR
EXHAUST AIR
MANUAL BALANCE DAMPER
FLEXIBLE DUCT



NOTES:
ALL DUCT DIMENSIONS SHOWN ARE IN INCHES
AND ARE SHEET METAL SIZES UNLESS OTHERWISE SHOWN.
21X12 RECTANGULAR DUCT
12"Ø ROUND DUCT
21X12 Ø FLAT OVAL DUCT
DUCT MOUNTED SMOKE DETECTOR
SIDEWALL DIFFUSER, GRILLE OR REGISTER
EXHAUST GRILLE OR REGISTER
SUPPLY GRILLE OR DIFFUSER
RETURN GRILLE OR REGISTER
DIFFUSER TYPE
GRILLE, REGISTER OR
DIFFUSER DESIGNATION
AIRFLOW DIRECTION

MECHANICAL ABBREVIATIONS			
AC	Air Conditioning	LAT	Leaving Air Temperature
ACH	Air Changes per Hour	LL	Low Limit
AEE	Association of Energy Engineers	LON	Local Operating Network
AFD	Adjustable Frequency Drive	LP	Low Pressure
AFUE	Annual Fuel Efficiency Ratio	LRA	Locked Rotor Amps
AHU	Air Handling Unit	LWBT	Leaving Wet Bulb Temperature
BI	Backward Incline	LWT	Leaving Water Temperature
BTU	British Thermal Unit	M&V	Measurement and Verification
BTUH	British Thermal Units / Hour	MA	Mixed Air
CAV	Constant Air Volume	MAT	Mixed Air Temperature
CFC	ChloroFluoroCarbon	MC	Mechanical Contrator (Div 23)
CC	Cooling Coil	MCC	Motor Control Center
CFM	Cubic Feet per Minute	MUA	Make-up Air Unit
COP	Coefficient Of Performance	MVD	Manual Volume Damper
CRAC	Computer Room Air Conditioner	MZ	Multi-Zone
CV	Constant Volume	N/A	Not Applicable
DA	Discharge Air	NEMA	National Electrical Manufacturers Association
DB	Dry Bulb	OA	Outside Air
DH	Duct Heater	OAT	Outside Air Temperature
DN	Down	OC	On Center
DP	Dew Point	ODP	Open Drip Proof
DX	Direct Expansion	PC	Plumbing Contrator (Div 22)
EAT	Entering Air Temperature	PH	Pre-Heat
EC	Electrical Contrator (Div 26, 27 or 28)	PHC	Pre-heat Coil
ECM	Electronically Commutated Motor	PTAC	Packaged Terminal Air Conditioner
EDH	Electric Duct Heater	QTY	Quantity
EER	Energy Efficiency Ratio	RA	Return Air
EF	Exhaust Fan	REF	Refrigerant
EH	Electric Heater	RF	Return Fan
EHC	Electric Heating Coil	RH	Reheat
ESP	External Static Pressure	RH	Relative Humidity
ETR	Existing to Remove	RHC	Re-heat Coil
EUH	Electric Unit Heater	RPM	Revolutions Per Minute
EX	Existing	RTD	Resistance Temperature Detector
FC	Forward Curve	RTU	Roof Top Unit
FCU	Fan Coil Unit	SA	Supply Air
FLA	Full Load Amps	SAT	Supply Air Temperature
FPM	Feet Per Minute	SC	Shading Coefficient
FW	Feed Water	SEER	Seasonal Energy Efficiency Ratio
GC	General Contractor	SF	Supply Fan
GPM	Gallons Per Minute	SHFG	Solar Heat Gain Factor
GUI	Graphical User Interface	TEV	Thermostatic Expansion Valve
HCFC	HydrochloroFluorocarbon	TSP	Total Static Pressure
HEPA	High Efficiency Particulate Arresting	TXV	Thermostatic Expansion Valve
HFC	HydroFluoroCarbon	UC	Undercut
HL	High Limit	UH	Unit Heater
HP	Horsepower	UV	UltraViolet
HR	Heat Recovery	UV	Unit Ventilator
HRU	Heat Recovery Unit	VAV	Variable Air Volume
HRV	Heat Recovery Ventilator	VFD	Variable Frequency Drive
HSPF	Heating Seasonal Performance Factor	VSD	Variable Speed Drive
HVAC	Heating Ventilation and Air Conditioning	WB	Wet Bulb
HX	Heat Exchanger	WC	Water Column
I/O	Input/Output	XFER	Transfer
IAQ	Indoor Air Quality		
IR	Infra-Red		

GENERAL NOTES:

1.

THE DRAWINGS SHOW THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND OTHER TRADES AND SHALL PROVIDE ADDITIONAL OFFSETS AND FITTINGS AS NECESSARY.

2.

PRIOR TO BIDDING, THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND SHALL INCLUDE IN THE BID ALL WORK REQUIRED FOR A COMPLETE JOB. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS A MINIMUM OF FIVE DAYS PRIOR TO BID.

3.

THE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS SHALL COMPLY WITH THE 2018 NORTH CAROLINA MECHANICAL CODE AND NFPA 90A.

4.

DUCT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

5.

THE CONTRACTOR SHALL CHECK AND VERIFY ALL CLEARANCES PRIOR TO FABRICATION OR INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING SYSTEMS. WHERE CONDITIONS REQUIRE A CHANGE IN DUCT OR PIPE ROUTING, NOTIFY THE ENGINEER FOR AN ACCEPTABLE ALTERNATIVE METHOD. AVOID ROUTING DUCTWORK DIRECTLY OVER LIGHT FIXTURES, DIFFUSERS, AND OTHER CEILING MTD. DEVICES. LOCATE ALL MECHANICAL EQUIPMENT SO THAT FILTERS AND COMPONENTS REQUIRING ACCESS (SERVICE AND MAINTENANCE) ARE FULLY ACCESSIBLE.

6.

PROVIDE CURVED RADIUS ELBOW AT FIRST SUPPLY & RETURN FITTING FOR ALL HVAC UNITS. PROVIDE TURNING VANES IN ALL 90 DEGREE ELBOWS IN ALL RECTANGULAR SUPPLY/RETURN/EXHAUST DUCT SYSTEMS. ANY OFFSETS REQUIRED IN DUCT SYSTEMS SHALL BE INSTALLED PER SMACNA STANDARDS. SHARP ANGLED TRANSITIONS OR OFFSETS WILL NOT BE ALLOWED. PROVIDE DUCT ACCESS DOORS AT LOCATIONS SPECIFIED.

7.

INSTALL ALL DUCT MOUNTED DEVICES (DAMPERS, ACCESS DOORS, ETC.) AND PIPING SPECIALTIES IN EASILY ACCESSIBLE LOCATIONS. ADVISE THE ENGINEER IN ADVANCE OF INSTALLATION IF ACCESS WILL BE HINDERED SO AN ALTERNATE LOCATION CAN BE SELECTED.

8.

ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH PRESCRIBED CLEARANCES FOR SERVICE AND MAINTENANCE. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IF RECOMMENDED CLEARANCES ARE NOT POSSIBLE BEFORE INSTALLING EQUIPMENT.

9.

ALL ROTATING MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATION. PROVIDE FLEXIBLE NEOPRENE DUCT CONNECTORS BETWEEN DUCTWORK AND ISOLATED MECHANICAL EQUIPMENT.

10.

THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF FIRE RATED WALLS/FLOORS/CEILINGS BY DUCTWORK PIPING, ETC., WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN FIRE RATING OF THE BARRIER.

11.

BALANCE ALL AIR DISTRIBUTION DEVICES, EXHAUST FANS, AND OUTSIDE AIR QUANTITIES AS SCHEDULED OR SHOWN ON THE DRAWINGS. PROVIDE MARKERS AT ALL DAMPER LOCATIONS SHOWING FULL OPEN/CLOSED POSITIONS AND DAMPER SETTING FOR REQUIRED AIRFLOW. PROVIDE FINAL TEST AND BALANCE REPORT ALONG W/ SCHEMATIC DRAWINGS SHOWING DIFFUSER LOCATION W/ DESIGN AND ACTUAL CFM. THE DIFFUSER TAGS ON THE DRAWINGS SHALL CORRESPOND TO THE DIFFUSER TAGS ON THE REPORT. THIS REPORT SHALL BE SUBMITTED BEFORE THE FINAL INSPECTION IS PERFORMED. SEE SPECIFICATION SECTIONS FOR FURTHER INFORMATION. DO NOT BALANCE FOR DIVERSITY.

12.

WHERE PIPING CONTAINING FLAMMABLE AND COMBUSTIBLE GAS IS TO BE REMOVED, PROCEDURE OF NCGC 406.7.1.1 ALONG WITH NFPA 54 7.2.7 AND 8.3.1 SHALL BE OBSERVED. THE LINE SHALL BE FIRST DISCONNECTED FROM ALL SOURCES OF GAS PRESSURE, VENTED TO THE OUTDOORS, AND THEN THOROUGHLY PURGED WITH AIR, WATER, OR INERT GAS BEFORE ANY CUTTING OR WELDING IS DONE.

13.

THERMOSTATS AND SENSORS CONTAINING MERCURY SHALL BE DISPOSED IN ACCORDANCE WITH EPA RESOURCE CONSERVATION AND RECOVERY ACT (RCRA). CONTRACTOR SHALL REFER TO EPA WEBSITE FOR HANDLING PROCEDURES FOR DISPOSAL AND SPILL MANAGEMENT OF PRODUCTS CONTAINING MERCURY.

14.

IN THE AREA OF WORK, ANY "OPEN" DUCTWORK INCLUDING INLET AND OUTLET REGISTERS AND DIFFUSERS SHALL BE COVERED WITH FILTRATING MATERIAL OR VISQUINE TO PROTECT INSIDE OF THE SYSTEM AGAINST DUST AND DEBRIS.

15.

ANY DAMAGE OF EXTERIOR PIPE AND DUCT INSULATION CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AND RESTORED AT NO EXTRA COST TO THE OWNER.

in situ studio

704 N Person St
Raleigh NC 27604
www.insitudiostudio.us

Consultants

CD

03/21/25
PJR
scale as noted

BLUE JAY POINT COUNTY PARK
3200 PLEASANT UNION CHURCH RD
RALEIGH, NC 27614

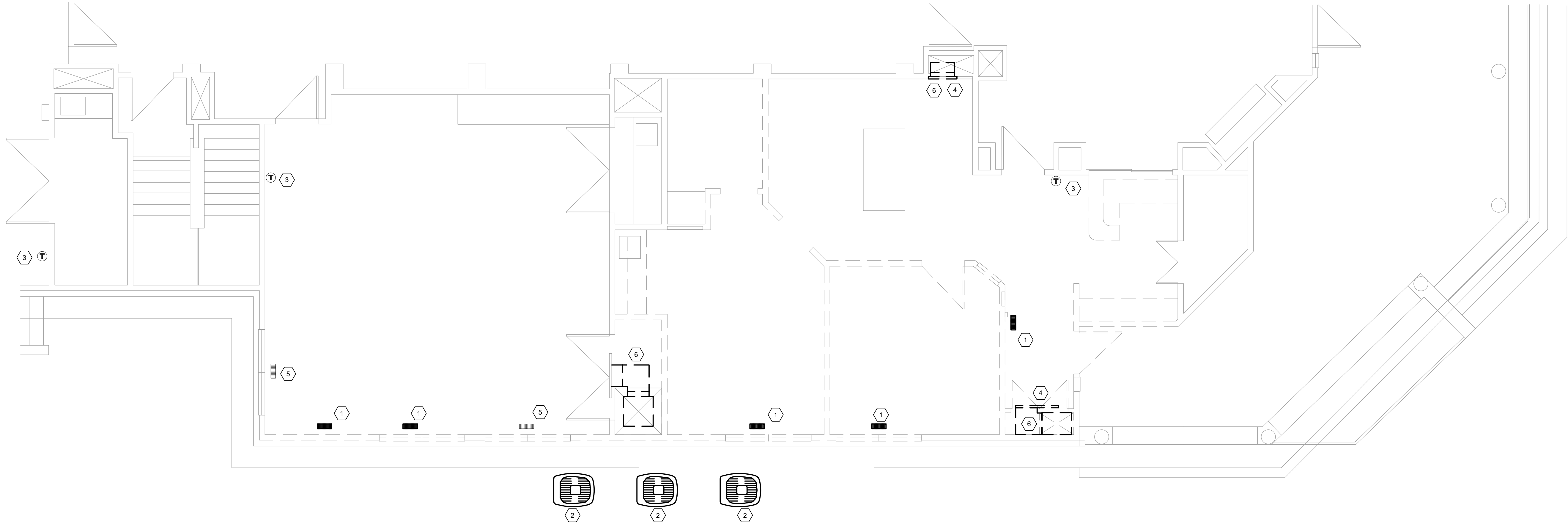
MECHANICAL
LEGENDS & SCHEDULES

MO.01

01

MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

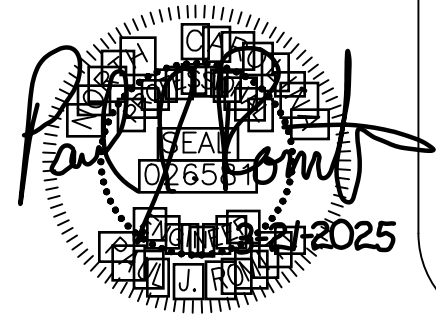


GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING HVAC SERVICES AND EQUIPMENT PRIOR TO DEMOLITION.

KEYED NOTES:

1. CAREFULLY REMOVE EXISTING FLOOR DIFFUSER AND PREPARE FOR INSTALLATION IN NEW LOCATION. REFER TO M200 FOR NEW LOCATIONS. REMOVE AND DISCARD EXISTING FLEXIBLE DUCT RUN BACK TO AHU MAIN IN CRAWLSPACE.
2. CAPTURE EXISTING R22 IN SYSTEM AND STORE FOR RE-USE. EXISTING HEAT PUMP SHALL BE REUSED. REFER TO M200 FOR NEW LOCATION. REMOVE EXISTING REFRIGERANT LINES FROM EXISTING EVAPORATOR COIL AND PREPARE FOR REPLACEMENT ROUTING. RELOCATE EXISTING DISCONNECT. REFER TO DIV26 PLANS FOR MORE INFORMATION.
3. EXISTING THERMOSTAT SHALL REMAIN. DIV 23 CONTRACTOR SHALL PROTECT EXISTING CONTROLS DURING ALL PHASES OF CONSTRUCTION.
4. REMOVE EXISTING RETURN GRILLE AND PREPARE FOR RE-INSTALLATION IN NEW LOCATION.
5. CLEAN AND REUSE EXISTING FLOOR DIFFUSER.
6. REMOVE EXISTING RETURN DUCT BACK BELOW FLOOR. PREPARE FOR EXTENSION AND RISE IN NEW CHASE SPACE. REFER TO M200 FOR NEW WORK.



M1.00

MECHANICAL DEMOLITION PLAN

BLUE JAY POINT COUNTY PARK
3200 PLEASANT UNION CHURCH RD
RALEIGH, NC 27614

03.21.25
R. A. Z.
scale as noted

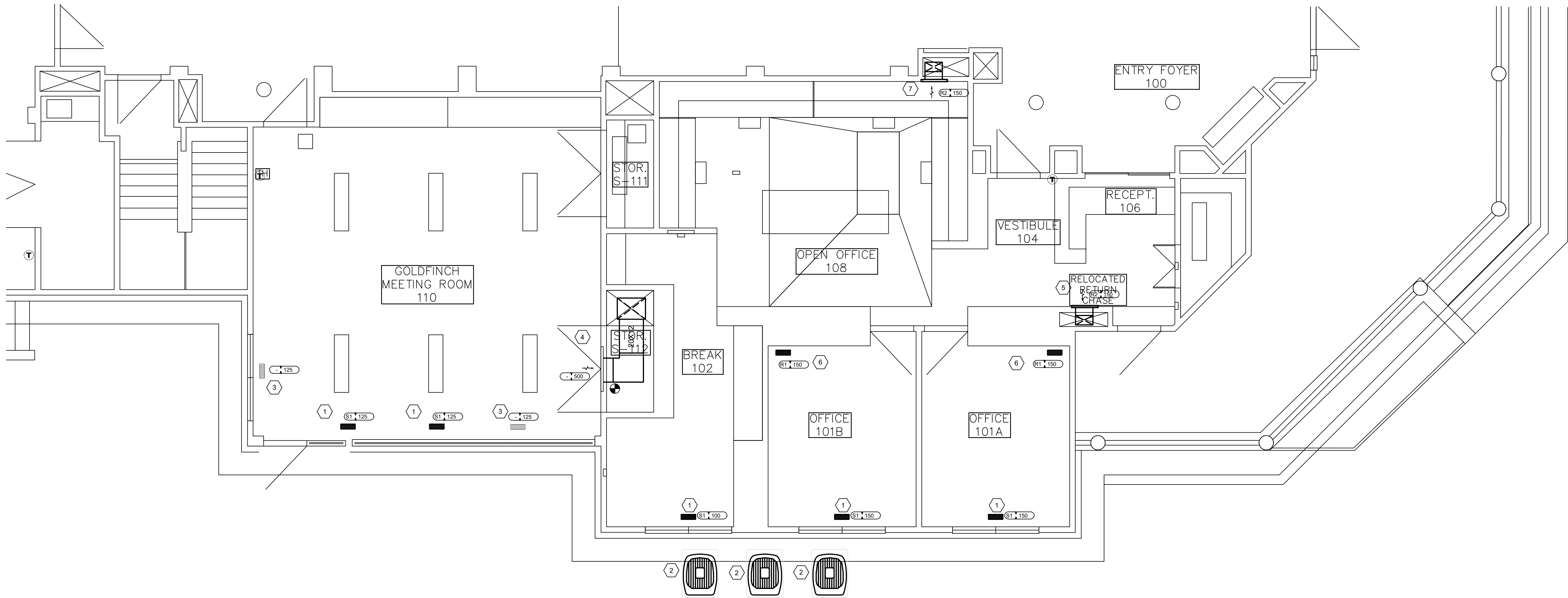
CD

Consultants

Sigma Engineered Solution, PC
5909 Falls of Neuse Rd, Suite 101 Raleigh NC 27609
919.840.9300 www.sigmaes.com

704 N Person St
Raleigh NC 27604
www.insitustudio.us

in situ studio



GENERAL NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING HVAC SERVICES AND EQUIPMENT PRIOR TO DEMOLITION.
- G.C. AND DIV 23 CONTRACTOR SHALL COORDINATE LOCATION OF ALL EQUIPMENT, AIR DISTRIBUTION DEVICES, AND PENETRATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO ARCHITECTURAL FLOOR PLANS AND SECTIONS FOR COORDINATION WITH CASEWORK AND OTHER ELEMENTS.

KEYED NOTES:

- NEW LOCATION OF EXISTING FLOOR GRILLE. ALL FLEXIBLE DUCT BACK TO AHU MAIN SHALL BE REPLACED WITH NEW 8" INSTALL NEW BALANCING DAMPER AT EXISTING TAP. REBALANCE FLOOR GRILLE TO NEW AIRFLOWS INDICATED.
- NEW LOCATION OF EXISTING HEAT PUMP. INSTALL NEW EQUIPMENT PAD. ALL REFRIGERANT PIPING SHALL BE NEW AND REPLACED BETWEEN INDOOR AND OUTDOOR COILS. RECLAIM AND RE-USE R-22 REFRIGERANT. INSTALL NEW TXV AND FILTERDRIER.
- EXISTING FLOOR GRILLE. ALL FLEXIBLE DUCT BACK TO AHU MAIN SHALL BE REPLACED WITH NEW 8" INSTALL NEW BALANCING DAMPER AT EXISTING TAP. REBALANCE FLOOR GRILLE TO NEW AIRFLOWS INDICATED.
- REROUTE RETURN DUCT FROM BASEMENT UP IN NEW CHASE AND CONNECT TO EXISTING LOUVER.
- REROUTE RETURN DUCT FROM BASEMENT UP IN NEW CHASE AND CONNECT TO NEW RETURN GRILLE COORDINATE WITH NEW CASEWORK IN THIS AREA.
- NEW FLOOR GRILLE. CONNECT TO EXISTING AHU RETURN WITH 8" FLEXIBLE DUCT AND INSTALL BALANCING DAMPER IN THE SPIN-IN. BALANCE TO AIRFLOW INDICATED.
- MOUNT NEW RETURN GRILLE UNDER DESK OF NEW CASEWORK. TOP OF GRILLE APPROXIMATELY 30" AFF. MOUNT SUCH THAT THAT ALL ACCESS TO FILTER REMOVAL IS MAINTAINED.

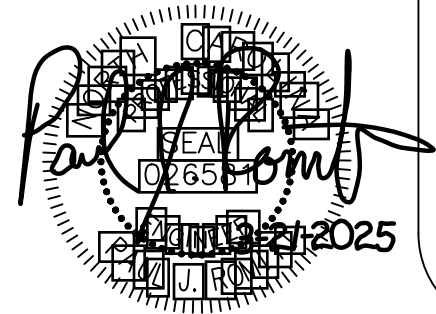
AIR DISTRIBUTION SCHEDULE

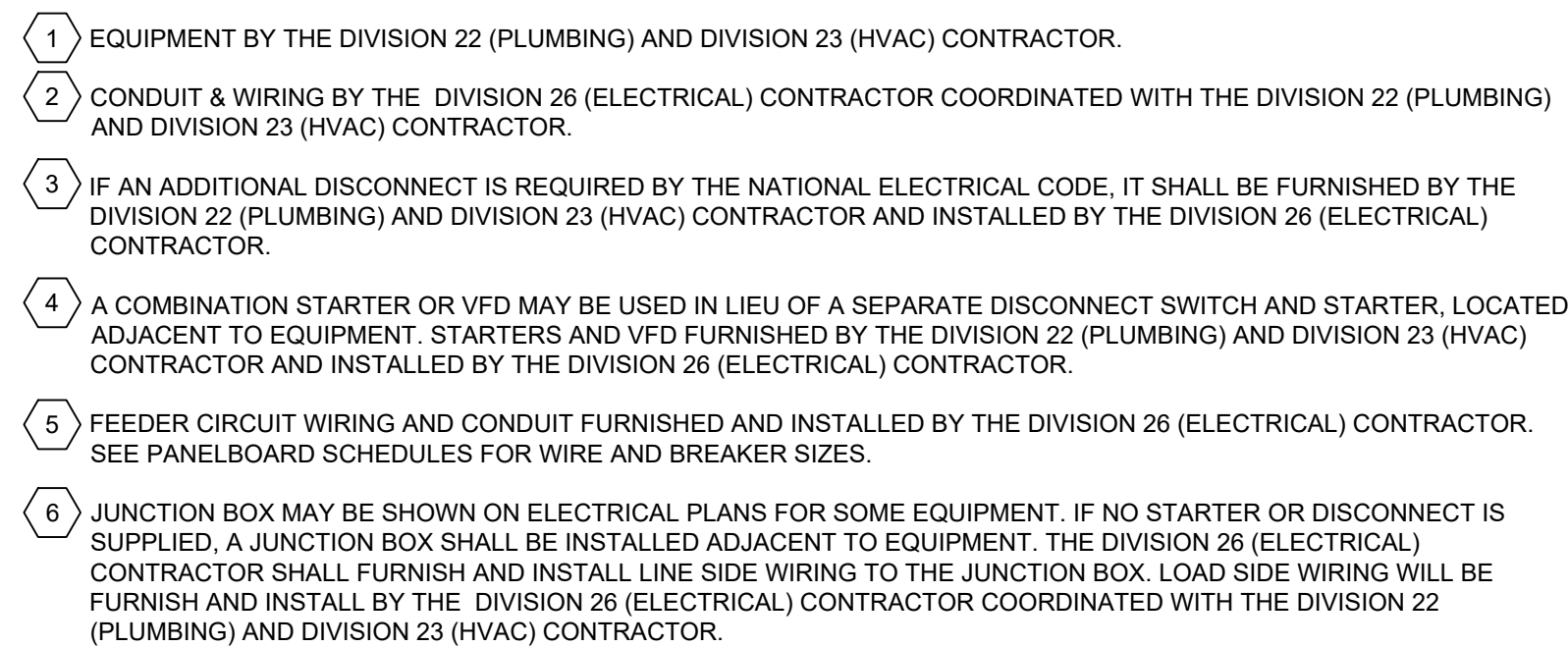
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S1	PRICE	LBPH	14X4	FLOOR	ALUM	ALUM	NONE	LINEAR BAR	NONE	< 20 1, 2
R1	PRICE	LBPH/15A CORE	14x8	FLOOR	ALUM	ALUM	NONE	LINEAR BAR	NONE	< 20 1, 2
R2	PRICE	530FF	24X12	WALL	ALUM	WHITE	OBD	LOUVERED/FILTER FACE	NONE	< 20 3

* TITUS, METALAIRE, NAILOR SHALL BE CONSIDERED EQUALS

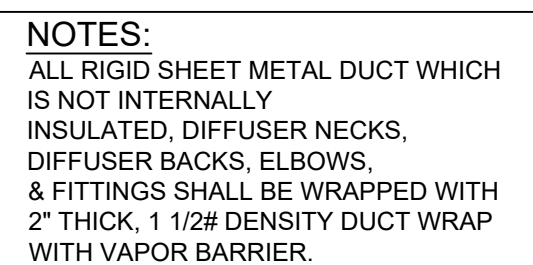
NOTES:

- SEE PLANS FOR NECK SIZE.
- BALANCE DAMPER TO BE INSTALLED IN THE BRANCH TAKE-OFF.
- INSTALL HORIZONTAL LOUVERS ANGLED UP

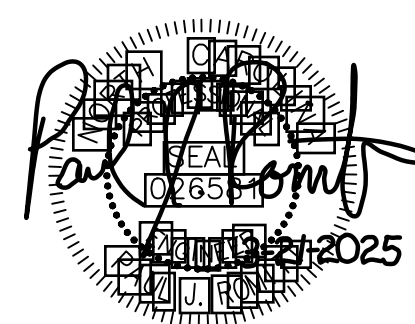




IN ALL CASES THE DIVISION 22 (PLUMBING) AND DIVISION 23 (HVAC) CONTRACTOR SHALL BE CONTRACTUALLY OBLIGATED TO INSURE ALL FINAL CONNECTIONS, START UP, AND TESTING OF EQUIPMENT IS PROVIDED PER THE MANUFACTURERS' STRICT INSTRUCTIONS; HOWEVER ALL FINAL CONNECTIONS SHALL FURNISHED AND INSTALLED BY THE DIVISION 26 (ELECTRICAL) CONTRACTOR



4 SUPPLY DIFFUSER RUNOUT DETAIL
M500 Scale: NONE



GENERAL NOTES

1. ALL WORK ON THIS PROJECT SHALL CONFORM TO THE 2020 NEC, ALL LOCAL AND STATE CODES, STATE BUILDING CODE AND REQUIREMENTS BY THE AUTHORITY HAVING JURISDICTION.
2. SYMBOLS AND ABBREVIATIONS MAY NOT ALL BE UTILIZED FOR THIS PROJECT.
3. UNLESS OTHERWISE INDICATED THE CONTRACTOR, IS RESPONSIBLE FOR ALL CUTTING, CORE- DRILLING AND PATCHING REQUIRED TO INSTALL ELECTRICAL RELATED WORK.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ELECTRICAL RELATED WORK WITH OTHER TRADES. THE CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS WITH OTHER TRADES. ADDITIONAL REQUIRED HANGERS & SUPPORTS MUST BE IN PLACE PRIOR TO APPLICATION OF FIRE PROOFING MATERIAL. ANY DAMAGE INCURRED ON FIRE PROOFING MATERIAL DUE TO INSTALLATION OF ELECTRICAL HANGERS WILL BE REPAIRED BY FIRE PROOFING SUB-CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. UTILITIES SERVING AREAS OF THIS PROJECT STILL OCCUPIED BY THE OWNER DURING DEMOLITION AND NEW CONSTRUCTION SHALL BE MAINTAINED UNTIL THE OWNER VACATES THE AREA. UNLESS OTHERWISE NOTED.
6. ALL SHUTDOWNS WILL BE COORDINATED AND APPROVED THROUGH THE OWNER'S PROJECT MANAGER AND THE BUILDING MANAGER AND WILL REQUIRE ADVANCE NOTICE OF 10 WORKING DAYS EXCLUDING WEEKEND. THIS TIME LENGTH MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AT THE OWNER'S DISCRETION. THE SCHEDULING OF SUCH SHUTDOWNS MAY TAKE TWO WEEKS OR MORE AND THE CONTRACTOR MUST BE PREPARED TO WORK SECOND OR THIRD SHIFT, SATURDAY OR SUNDAY AS NECESSARY TO PERFORM THE WORK. FURTHERMORE, IN SOME CASES AN ALTERNATE POWER SOURCE MAY BE REQUIRED, THE CONTRACTOR MUST BE PREPARED TO MAKE TAPS, INSTALL CIRCUIT BREAKERS, ETC., WHILE EXISTING EQUIPMENT IS ENERGIZED. ALL SHUTDOWNS WILL BE INITIATED AND CONTROLLED BY OWNER.
7. VISIT THE SITE PRIOR TO BID DATE AND EXAMINE ALL AREAS TO BE DEMOLISHED AND RENOVATED. THOROUGHLY FAMILIARIZE YOURSELF WITH EXISTING CONDITIONS. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO THOROUGHLY EXAMINE EXISTING CONDITIONS TO DETERMINE THE EXACT SCOPE OF DEMOLITION WORK. "KEYED" NOTES ON THE DEMOLITION DRAWINGS ARE PROVIDED TO ASSIST BIDDERS TO DETERMINE THE SCOPE OF DEMOLITION WORK.
8. EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
9. ALL AREAS OUTSIDE THE PROJECT LIMITS IN WHICH WORK MUST TAKE PLACE WILL BE CLEANED AND RETURNED TO NORMAL (INCLUSIVE OF CEILING TILE REPLACEMENT) AT THE END OF EACH DAY. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE EACH DAY BEFORE LEAVING THE CONTRACT PROJECT LIMITS REGARDING THE CLEANLINESS OF THE AREA IN WHICH WORK TOOK PLACE OUT SIDE OF THE PROJECT LIMITS.
10. WHERE WORK IS TAKING PLACE OUTSIDE THE PROJECT LIMITS CANNOT ALLOW A RETURN TO NORMAL APPEARANCE OF WALLS, CEILING, ETC., AT THE END OF EACH DAY DUE TO ITS EXTENSIVE NATURE; THE CONTRACTOR SHALL ERECT A BLACK PLASTIC CURTAIN AROUND HIS WORK. SUCH A CURTAIN SHALL REMAIN IN PLACE UNTIL THE WORK IS COMPLETE. SUCH CURTAINS WILL HAVE CAUTIONARY SIGNS AFFIXED INDICATING CONSTRUCTION ACTIVITY WITHIN.
11. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADS WITH CHAMFERED EDGES UNDER ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
12. DO NOT MOUNT ANY WALL RECEPTACLES OR TELEPHONE/COMPUTER OUTLETS BACK TO BACK.
13. USE 3/4" DEEP MUD RINGS ON BOXES IN 5/8" DRYWALL SO FACE OF RING IS FLUSH WITH FACE OF DRYWALL. PROVIDE CADDY #RLC ADAPTER ON ALL OUTLETS WHERE DRYWALL IS CUT IN EXCESS OF 1/8" LARGER THAN MUD RING OR WHERE THE DEVICE "EARS" ARE NOT SUPPORTED BY THE DRYWALL.
14. 20A BRANCH CIRCUIT WIRE SIZING SHALL BE IN ACCORD WITH THE FOLLOWING TABLE:

VOLTAGE	DISTANCE	(FIRST DEVICE)	REMAINDER OF CIRCUIT
120/208/240	0' - 50'	#12	#12
	50' - 100'	#10	#12
	100' - 150'	# 8	#10

15. THE ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION OF LIGHTS, ETC. IN MECHANICAL ROOMS WITH MECHANICAL CONTRACTOR BEFORE ROUGH-IN TO AVOID CONFLICT WITH DUCT WORK.
16. ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM.
17. ALL BRANCH CIRCUIT BREAKERS SHALL BE 20A, 1P, WITH 2 #12 AWG 1#12 GND IN 3/4" MINIMUM CONDUIT, UNLESS OTHERWISE NOTED. EXTERIOR CONDUIT OR UNDERGROUND/SLAB CONDUIT SHALL BE 1" C MINIMUM.
18. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING BUT NOT LIMITED TO BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, AND TRANSFORMER LUGS, SHALL BE RATED FOR USE WITH 75 DEGREE CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 310-16.
19. ALL RACEWAYS SHALL BE METAL UNLESS SPECIFICALLY NOTED OR APPROVED OTHERWISE. ANY RACEWAY IN POURED CONCRETE SHALL BE RIGID METAL (HEAVY WALL). REFER TO SPECIFICATIONS FOR ALL OTHERS. ALL CONDUIT AND BOXES SHALL BE PROVIDED IN COLORS NOTED ON SHEET E001.
20. CONTRACTOR SHALL MINIMIZE NUMBER OF HOME RUN CONDUITS. CONTRACTOR MAY COMBINE UP TO THREE CIRCUITS PER HOME RUN IN A SINGLE CONDUIT; WHERE MORE THAN THREE (3) CONDUCTORS ARE PROVIDED PER RACEWAY MINIMUM CONDUIT SIZE SHALL BE 3/4".
21. IN GENERAL ALL ELECTRICAL CONDUIT WILL BE RUN AT THE ELEVATION JUST BELOW THE BOTTOM OF THE STRUCTURAL BEAMS. THE CONTRACTOR SHALL OFFSET THE ELECTRICAL CONDUIT TO AVOID INTERFERENCE WITH ANY DUCTWORK, SPRINKLER OR MECHANICAL PIPING. THE CONTRACTOR SHALL COORDINATE HIS CONDUIT AND RACEWAY LOCATIONS WITH ALL OTHER TRADES BEFORE INSTALLATION.
22. THE ROUTING FOR THE RACEWAY SHOWN ON THE DWGS. IS DIAGRAMMATIC ONLY. BASED ON CURSORY FIELD SURVEY BY DESIGNER. CONTRACTOR IS CAUTIONED THAT SPACE ABOVE CLG. IS VERY CONGESTED WITH EXISTING MECHANICAL, ELECTRICAL & PLUMBING ITEMS, AND WORK SPACE IS LIMITED. CONTRACTOR IS REQUIRED TO VISIT THE SITE PRIOR TO BID DATE AND LOOK ABOVE THE CLG. OF THE PROPOSED ROUTING TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. PROVIDE ANY AND ALL ADDITIONAL JBS, OFFSETS, CONDUITS AND FITTINGS AS REQUIRED TO AVOID ANY EXIST. OBSTRUCTIONS ALONG THE PROPOSED ROUTING. ANY SHUTDOWNS CAUSED BY RELOCATING EXISTING EQUIPMENT SHALL BE COORDINATED WITH OWNER. FAILURE TO EXAMINE EXISTING CONDITIONS AND COORDINATE THE EXACT CONDUIT ROUTING WILL NOT EXCUSE CONTRACTOR FROM PERFORMING ALL DUTIES NECESSARY TO COMPLETE THE WORK. DO NOT ROUTE CONDUIT IN A MANNER THAT WILL BLOCK ACCESS TO EXISTING ITEMS AS JUNCTION BOXES, VALVES, FILTERS OR SERVICE ACCESS TO EQUIPMENT.
23. ELECTRICAL PLANS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL ALIGN FIXTURES, FIRE ALARM DETECTORS, CEILING DIFFUSERS, ETC. AS REQUIRED TO PROVIDE A PATTERN OF UNIFORMITY. AT NO TIME SHALL A SMOKE DETECTOR BE LOCATED WITHIN 3'-0" OF A SUPPLY OR RETURN GRILLE.
24. WIRE AND CIRCUIT BREAKERS ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS AND CONDUIT FOR THIS PROJECT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND SHALL VERIFY THE ELECTRICAL DATA FOR EQUIPMENT WHICH WILL ACTUALLY BE INSTALLED BY THE OTHER CONTRACTORS AND RECOMPUTE WIRE AND BREAKER SIZES IF REQUIRED TO COMPLY WITH THE N.E.C.
25. REFER TO MECHANICAL DRAWINGS AND COORDINATE VERTICAL RUNS OF WIRE AND CONDUIT WITH MECHANICAL PIPING. COORDINATE WITH MECHANICAL CONTRACTORS. (NOTE: STACK RUNS OF CONDUIT AND PROVIDE OFFSETS AS NECESSARY.)
26. LABEL ALL CONDUITS TERMINATING IN THE CEILING CAVITIES.
27. LIGHTING & POWER PANELS ARE DESIGNED AROUND SQUARE "D" "NQOD" WITH A MAXIMUM DEPTH OF 5 3/4" AND WIDTH OF 20".
28. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS, JUNCTION BOXES AND DISCONNECT SWITCHES SHALL BE REVIEWED AND COORDINATED WITH CASEWORK DRAWINGS AND ACTUAL EQUIPMENT LOCATION. PRIOR TO INSTALLATION. ANY DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
29. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND FINISHES BEFORE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR THE CEILING TO BE INSTALLED. ANY DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
30. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
31. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
32. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE. PROVIDE COORDINATION DRAWINGS TO THE ENGINEER FOR APPROVAL. ANY REWORK THAT NEEDS TO BE DONE DO TO CONFLICTS BETWEEN TRADES SHALL BE DONE AT THIS CONTRACTORS EXPENSE.
33. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM. REFER TO THE SPECIFICATIONS FOR MORE DETAILED INFORMATION.
34. WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS OR THE ROOF, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED WORK.
35. IN ALL AREAS WHERE THE FIRE RATED WALLS, FLOORS AND CEILINGS ARE INSTALLED OR ARE EXISTING, ALL PENETRATIONS OF ELECTRICAL CONDUITS OR OTHER RELATED ELECTRICAL MATERIALS SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED MATERIALS TO MAINTAIN THE RATINGS OF THE BUILDING CONSTRUCTION.
36. ALL FUSES, DISCONNECT SWITCHES AND BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.
37. UPON COMPLETION OF WORK ALL KEYS TO ELECTRICAL POWER PANELS SHALL BE TURNED OVER TO THE OWNER AND A SIGNED RECEIPT SHALL BE OBTAINED.
38. ALL MULTIWIRE BRANCH CIRCUITS NEED TO HAVE SEPARATE NEUTRAL CONDUCTORS TO COMPLY WITH NEC 2020 ARTICLE 210.4. NO SHARED NEUTRAL CONDUCTORS PERMITTED ON THIS PROJECT.
41. ANY RECEPTACLE WITH-IN 6'-0" OF A SINK SHALL BE A GROUND FAULT TYPE (GFI) RECEPTACLE.
42. ALL WORK ON THIS PROJECT SHALL BE INSTALLED IN COMPLIANCE WITH ANSI A117.1, ADA STANDARDS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

01
E0.02 GENERAL NOTES
SCALE: NONE

INTERIOR LIGHTING FIXTURE SCHEDULE									
MANUFACTURER CAT #				LAMPS	DRIVER	INPUT	VOLT	REMARKS	
LLED8000-CMC-CL-3.6-10V-35K-DRY-TBD-X				LED	LED DRIVER	3.6	24	PROVIDE REMOTE DRIVERS AS REQUIRED.	
LDN6-A L02-SWW1-L06-CTBD-CTBD-UGZ				LED	LED DRIVER	25	U		
EQUAL									
EQUAL									
LDN6-A L02-SWW1-LW6-CTBD-CTBD-UGZ				LED	LED DRIVER	25	U		
EQUAL									
EQUAL									
Y06S-D-10LA-35K-80CRI-MD-MN10-120-ZT-RM-VL-R-CTBD-CTBD-F				LED	LED DRIVER	15	U	PROVIDE WITH REMOTE EMERGENCY INVERTER	
EQUAL									
EQUAL									
BEAMIX-XX-775-475-5D-BW-35K-CTBD-TBD-U-DM				LED	LED DRIVER	36	U		
EQUAL									
EQUAL									
FMLWL48 835 ZT				LED	LED DRIVER	40	U		
EQUAL									
EQUAL									
EVHC-12-06L				LED	LED DRIVER	12	U	WALL MOUNTED UNIT	
EQUAL									
EQUAL									
EVHC-12-06L				LED	LED DRIVER	12	U	CEILING MOUNTED UNIT	
EQUAL									
EQUAL									
S900U-WB-SR-TBD-TBD				LED	LED DRIVER	5	U		
EQUAL									
EQUAL									
EXTERIOR LIGHTING FIXTURE SCHEDULE									
EP1250				LED	LED DRIVER	184	U		
EQUAL									
EQUAL									
ALT1-2BL-40-35K8-3-UNV-TBD-TBD				LED	LED DRIVER	60	U	PROVIDED ON 20'-0" POLE. BUG=102	
EQUAL									
EQUAL									
RTA-X-20-X-B-XX-CTBD									
EQUAL									
EQUAL									
LLETE									

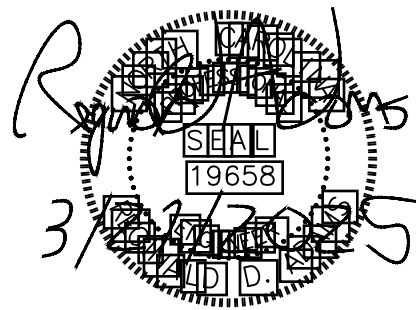
02
E0.02 LUMINAIRE SCHEDULE
SCALE: NONE

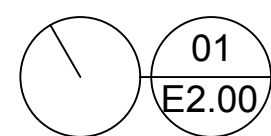
EXISTING PANEL "P(MC-3)"				PANEL TYPE: NQ				MCB or MLO:				MCB							
				BUS SIZE: 225A				MOUNTING:				FLUSH							
				VOLTAGE: 208Y/120V				MINIMUM AIC:				10,000							
CKT	LOAD SERVED	TRIP	POLE	WIRE*	GND	COND	KVA	KVA PER PHASE			KVA	COND	GND	WIRE*	POLE	TRIP	LOAD SERVED	CKT	
								A	B	C									
1	PORCH LIGHTS	20	1	EX	EX	EX	0.50	1.10			0.60	EX	EX	EX	1	20	FOYER LTS	2	
3	FRONT LTS	20	1	EX	EX	EX	0.40		1.20		0.80	EX	EX	EX	1	20	LTS RM#6	4	
5	MEET RMLTS	20	1	EX	EX	EX	0.80			2.00	1.20	3/4"	#12	#12	1	20	LIGHTING	6	
7	REC	20	1	EX	EX	EX	0.56	1.06			0.50	EX	EX	EX	1	20	BATH LTS	8	
9	KIT LTS	20	1	EX	EX	EX	1.00		1.60		0.60	EX	EX	EX	1	20	LTS NAT DISC	10	
11	REC	20	1	EX	EX	EX	0.96			2.16	1.20	EX	EX	EX	1	20	TRACK LTS	12	
13	REC	20	1	EX	EX	EX	0.96	1.52			0.56	EX	EX	EX	1	20	REC	14	
15	BATHRM REC	20	1	EX	EX	EX	0.72		1.28		0.56	EX	EX	EX	1	20	REC	16	
17	FLR REC	20	1	EX	EX	EX	1.20			2.40	1.20	3/4"	#12	#12	1	20N	REC	18	
19	FLR REC	20	1	EX	EX	EX	1.20	1.20							1	15	SPARE	20	
21	REC	20	1	#12	#12	3/4"	0.80		1.52		0.72	EX	EX	EX	1	20	REC	22	
23	VH#5	30	2		EX	EX	EX	1.20		2.40	1.20	EX	EX	EX		2	30	WH#4	24
25					EX	EX	EX	1.20	2.40		1.20	EX	EX	EX					26
27	VH#2	30	2		EX	EX	EX	1.20		2.40	1.20	EX	EX	EX		2	30	WH#3	28
29					EX	EX	EX	1.20			1.20	EX	EX	EX					30
31	WH#3	30	1	#10	#10	3/4"	2.30	3.50			1.20	EX	EX	EX	1	20	TRACK LTS	32	
33	KITCHEN REC	20N	1	#12	#12	3/4"C	1.20		1.92		0.72	EX	EX	EX	1	20	REF. REC	34	
35	TRACK LTS	20	1	EX	EX	EX	2.00			2.50	0.50	EX	EX	EX	1	20	EXT LTS	36	
37	KIT GFI	20	1	EX	EX	EX	0.56	1.56			1.00	EX	EX	EX	1	20	CEILING FAN	38	
39	TRACK LTS	20	1	EX	EX	EX	2.00		2.56		0.56	EX	EX	EX	1	20	REC	40	
41	MP LTS	20	1	EX	EX	EX	1.20			2.40	1.20	3/4"	#12	#12	1	20L	FACP	42	
TOTALS:							12.34	12.48	16.26										
							CONNECTED LOAD (KVA)		DF	DEMAND LOAD (KVA)		NOTES							
LIGHTING							15.78		125%	19.73		L-PROVIDE WITH LOCK OUT CLIP							
FIRST 10K RECEPTS							10.72		100%	10.72		G-GFCI PROTECTED							
REMAINDER RECEPT										50%		A-G-COMBINATION AFCI/GFCI							
LARGEST MOTOR										125%		S- SHUNT TRIP							
MOTOR										100%		*-PHASE/NEUTRAL							
MISC							14.10		100%	14.10		N-NEW BREAKER							
TOTAL (KVA)							40.60			44.55									
TOTAL AMPS							113			124									

CONTRACTOR SHALL PROVIDE LABELLING SHOWING THE MAXIMUM AVAILABLE FAULT CURRENT/DATE CALCULATED. DESIGNER TO PROVIDE INFORMATION.

CONTRACTOR SHALL PROVIDE LABELLING SHOWING THE MAXIMUM AVAILABLE FAULT CURRENT/DATE CALCULATED. DESIGNER TO PROVIDE INFORMATION.

03
E0.02 PANEL SCHEDULE
SCALE: NONE





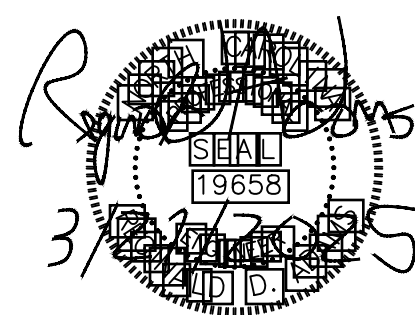
SCALE: 1/4" = 1'-0"

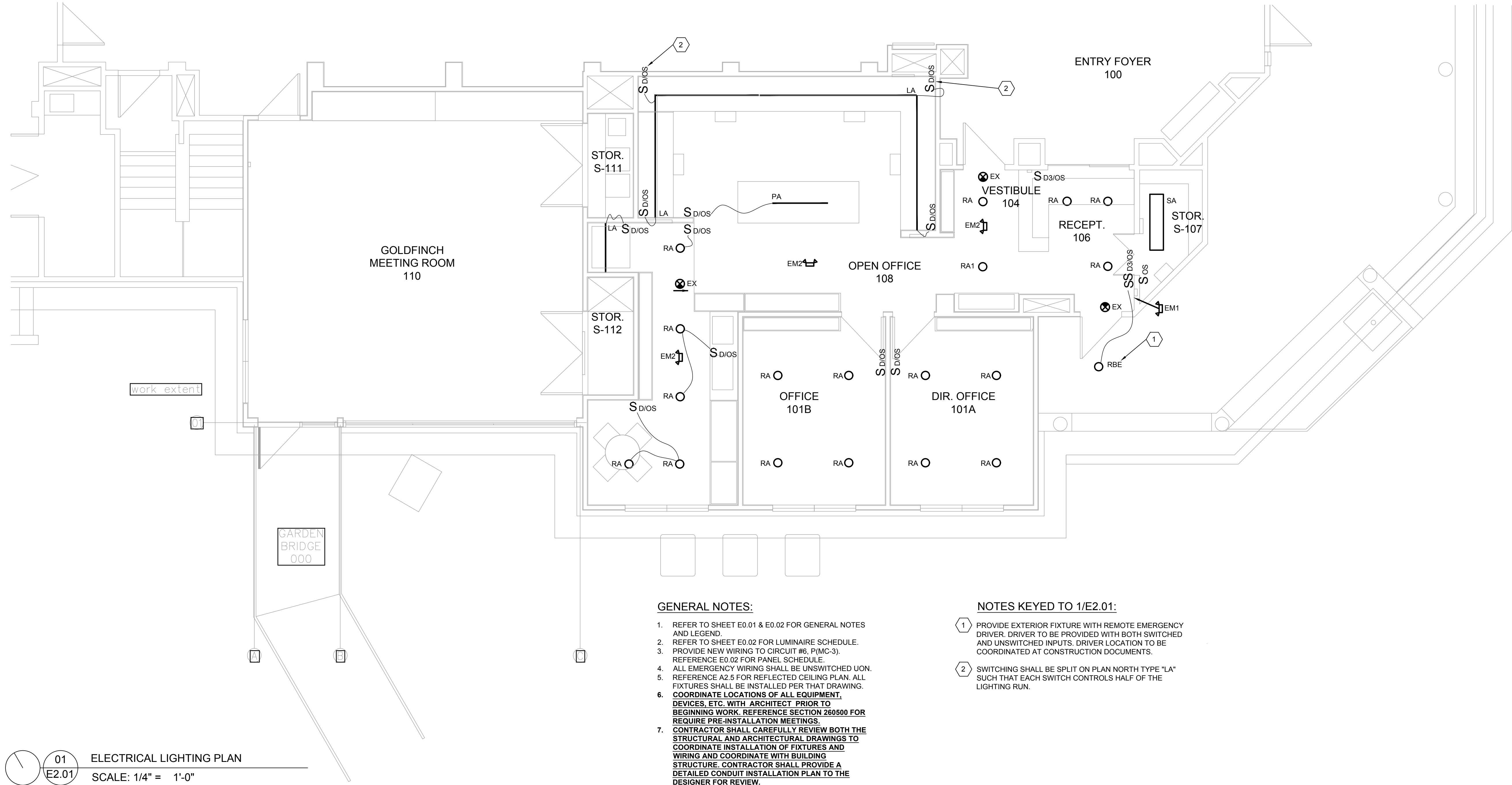
1. REFER TO SHEET E0.01 & E0.02 FOR GENERAL NOTES AND LEGEND.
2. ALL WIRING TO BE REMOVED SHALL BE REMOVED TO PANEL P(MC-3) CIRCUIT 6 UON.

1 EXISTING PANEL TO REMAIN.

- 2 TYPICAL EXISTING RECEPTACLE TO BE REMOVED. REMOVE ALL CONDUIT AND WIRING TO P(MC3).
- 3 EXISTING DATA OUTLET TO REMAIN. TYPICAL.
- 4 EXISTING RECEPTACLE TO REMAIN. TYPICAL.
- 5 EXISTING WALL MOUNTED FIXTURE TO BE REMOVED. TYPICAL.
- 6 EXISTING FACP TO BE REMOVED AND STORED. FACP WILL BE RELOCATED PER E2.01.
- 7 EXISTING SMOKE DETECTOR AND PULLSTATION TO BE REMOVED, STORED AND REINSTALLED PER E2.01.
- 8 EXISTING DATA OUTLET TO BE REMOVED. ALL WIRING AND CONDUIT TO BE REMOVED TO SOURCE.
- 9 EXISTING INTERCOM AND CARD READER TO BE REMOVED, STORED AND REINSTALLED PER E2.02.

- 10 EXISTING TROFFER TO BE REMOVED. ALL WIRING TO BE REMOVED TO SOURCE. TYPICAL.
- 11 DISCONNECT EXISTING WIRING AND LEAVE SAFE FOR EXTENSION. REFER TO SHEET E2.01 FOR ADDITIONAL INFORMATION. TYPICAL OF THREE (3) CONDENSING UNITS.
- 12 REMOVE ALL CEILING MOUNTED LIGHTING AND WIRING. TYPICAL.
- 13 PREPARE EXISTING WIRING TO BE REMOVED TO POINT ABOVE CEILING AND THEN EXTENDED TO NEW WATER HEAT. CIRCUIT (P/M-C) 31. REFERENCE E2.02 FOR NEW WORK.



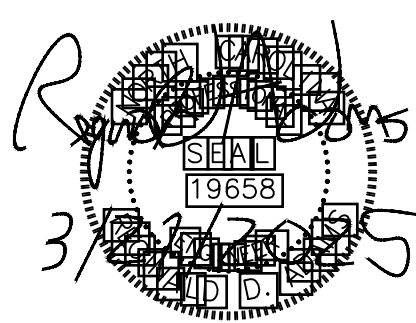


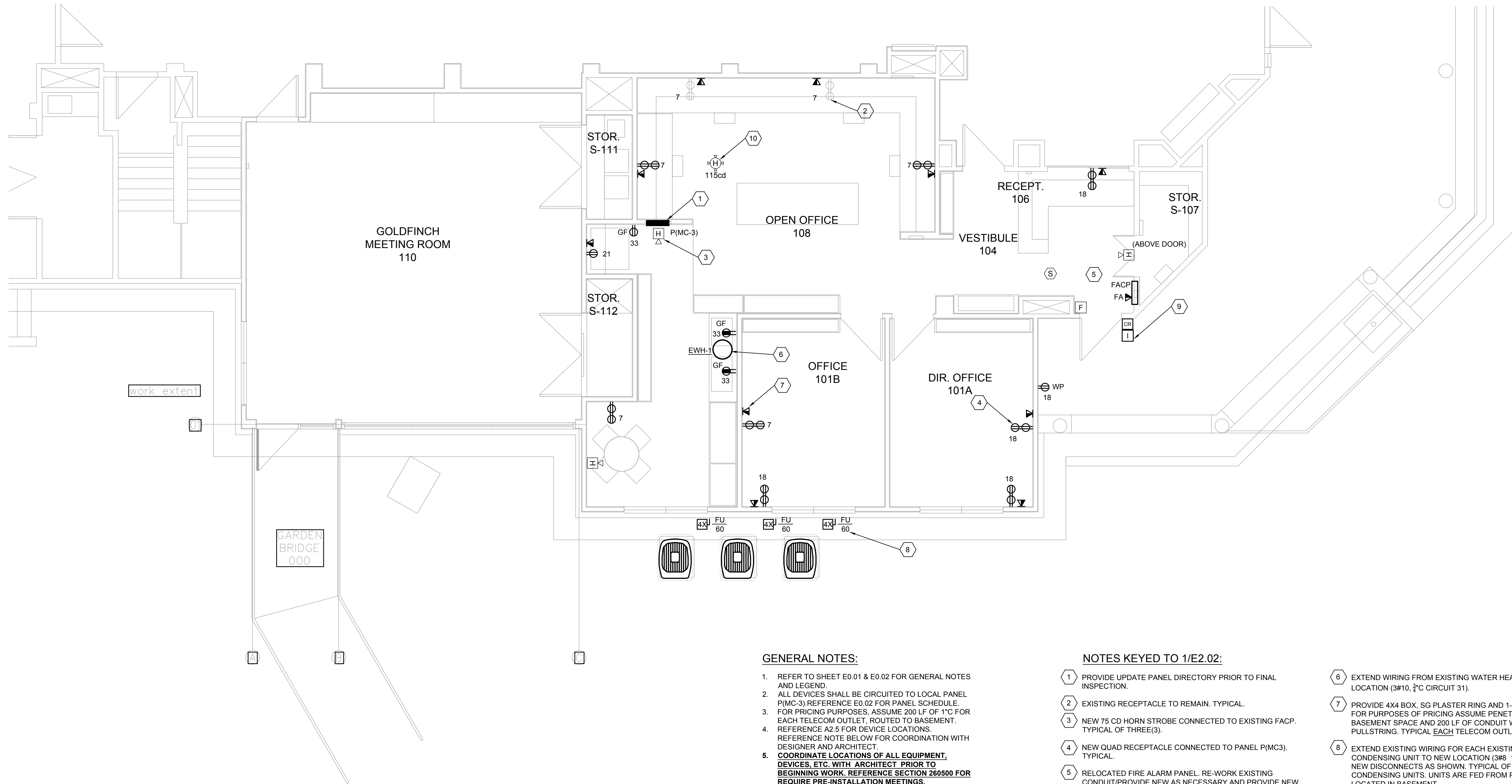
GENERAL NOTES:

1. REFER TO SHEET E0.01 & E0.02 FOR GENERAL NOTES AND LEGEND.
2. REFER TO SHEET E0.02 FOR LUMINAIRE SCHEDULE.
3. PROVIDE NEW WIRING TO CIRCUIT #6, P(MC-3). REFERENCE E0.02 FOR PANEL SCHEDULE.
4. ALL EMERGENCY WIRING SHALL BE UNSWITCHED UON.
5. REFERENCE A2.5 FOR REFLECTED CEILING PLAN. ALL FIXTURES SHALL BE INSTALLED PER THAT DRAWING.
6. **COORDINATE LOCATIONS OF ALL EQUIPMENT, DEVICES, ETC. WITH ARCHITECT PRIOR TO BEGINNING WORK. REFERENCE SECTION 260500 FOR REQUIRE PRE-INSTALLATION MEETINGS.**
7. **CONTRACTOR SHALL CAREFULLY REVIEW BOTH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS TO COORDINATE INSTALLATION OF FIXTURES AND WIRING AND COORDINATE WITH BUILDING STRUCTURE. CONTRACTOR SHALL PROVIDE A DETAILED CONDUIT INSTALLATION PLAN TO THE DESIGNER FOR REVIEW.**

NOTES KEYED TO 1/E2.01:

1. PROVIDE EXTERIOR FIXTURE WITH REMOTE EMERGENCY DRIVER. DRIVER TO BE PROVIDED WITH BOTH SWITCHED AND UNSWITCHED INPUTS. DRIVER LOCATION TO BE COORDINATED AT CONSTRUCTION DOCUMENTS.
2. SWITCHING SHALL BE SPLIT ON PLAN NORTH TYPE "LA" SUCH THAT EACH SWITCH CONTROLS HALF OF THE LIGHTING RUN.

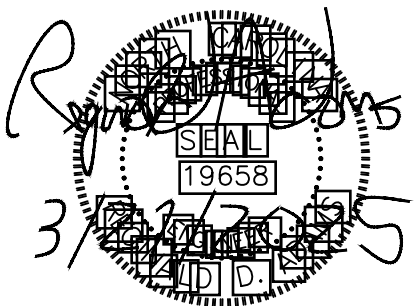


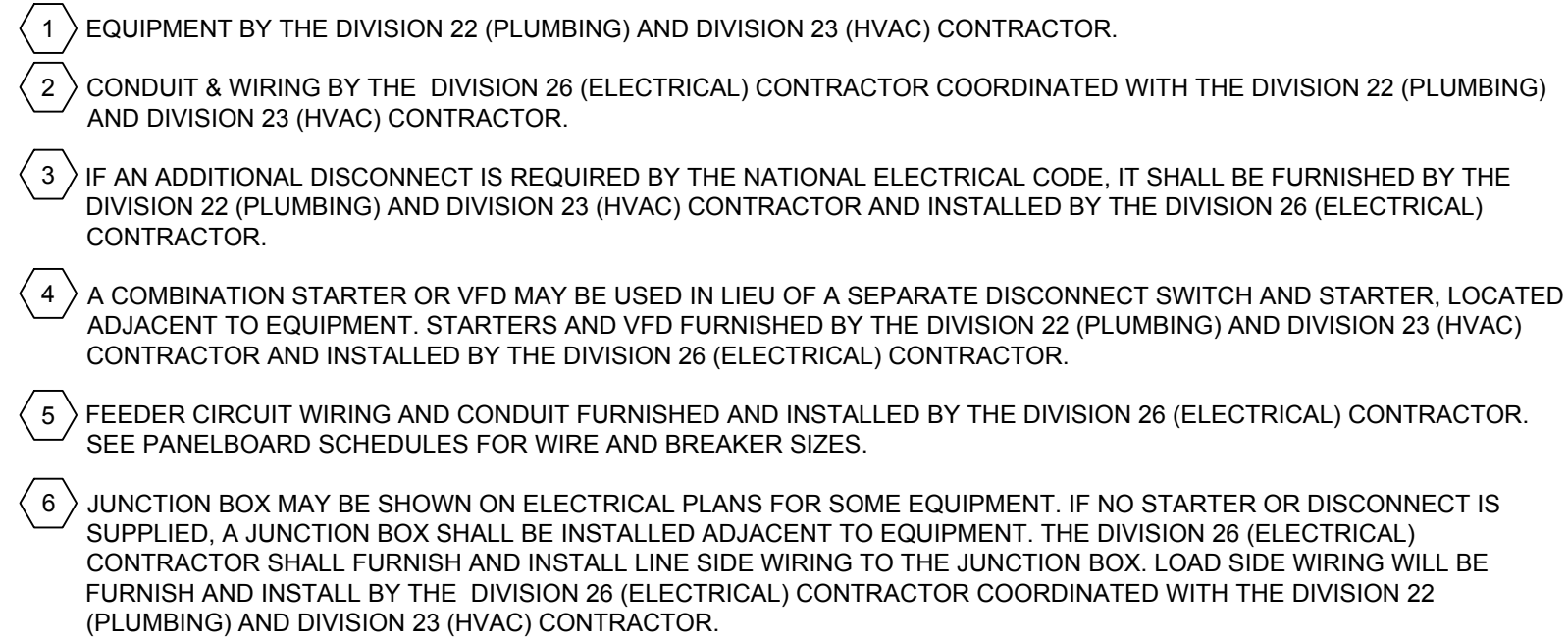
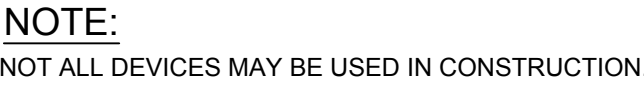


- GENERAL NOTES:**
1. REFER TO SHEET E0.01 & E0.02 FOR GENERAL NOTES AND LEGEND.
 2. ALL DEVICES SHALL BE CIRCUITED TO LOCAL PANEL P(MC-3).REFERENCE E0.02 FOR PANEL SCHEDULE.
 3. FOR PRICING PURPOSES, ASSUME 200 LF OF 1" C FOR EACH TELECOM OUTLET, ROUTED TO BASEMENT.
 4. REFERENCE A2.5 FOR DEVICE LOCATIONS. REFERENCE NOTE BELOW FOR COORDINATION WITH DESIGNER AND ARCHITECT.
 5. **COORDINATE LOCATIONS OF ALL EQUIPMENT, DEVICES, ETC. WITH ARCHITECT PRIOR TO BEGINNING WORK. REFERENCE SECTION 260500 FOR REQUIRE PRE-INSTALLATION MEETINGS.**

- NOTES KEYED TO 1/E2.02:**
1. PROVIDE UPDATE PANEL DIRECTORY PRIOR TO FINAL INSPECTION.
 2. EXISTING RECEPTACLE TO REMAIN. TYPICAL.
 3. NEW 75 CD HORN STROBE CONNECTED TO EXISTING FACP. TYPICAL OF THREE(3).
 4. NEW QUAD RECEPTACLE CONNECTED TO PANEL P(MC3). TYPICAL.
 5. RELOCATED FIRE ALARM PANEL. RE-WORK EXISTING CONDUIT/PROVIDE NEW AS NECESSARY AND PROVIDE NEW WIRING FROM EXISTING "FIRST DEVICE" REMAINING IN PLACE. REINSTALL SMOKE DETECTOR AND PULLSTATION. ALL CONDUIT TO BE 3" MINIMUM EXCEPT PROVIDE 1" WHERE NECESSARY. RECONNECT POWER TO PANEL P(MC-3). PROVIDE NEW TELECOM. WIRING IN 1" C TO MDF ROOM.
 6. EXTEND WIRING FROM EXISTING WATER HEATER TO NEW LOCATION (3#10, 3" C CIRCUIT 31).
 7. PROVIDE 4X4 BOX, SG PLASTER RING AND 1-1" C TO MDF. FOR PURPOSES OF PRICING ASSUME PENETRATION TO BASEMENT SPACE AND 200 LF OF CONDUIT WITH PULLSTRING. TYPICAL EACH TELECOM OUTLET.
 8. EXTEND EXISTING WIRING FOR EACH EXISTING CONDENSING UNIT TO NEW LOCATION (3#8 1" C). PROVIDE NEW DISCONNECTS AS SHOWN. TYPICAL OF THREE (3) CONDENSING UNITS. UNITS ARE FED FROM PANEL P(MC-2) LOCATED IN BASEMENT.
 9. PROVIDE NEW ROUGH-IN FOR INTERCOM AND CARD READER. FROM EACH BOX, PROVIDE ONE (1) 1" C AND INTERCEPT EXISTING CONDUIT SYSTEM. CARD READER AND INTERCOM WILL BE RE-INSTALLED BY OWNER'S SECURITY VENDOR.
 10. NEW 115 CD CEILING MOUNTED HORN/STROBE. PROVIDE NEW WIRING AND CONNECT TO EXISTING FACP.

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E2.02 ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"





NOTES:
THE DIVISION 22 (PLUMBING) AND DIVISION 23 (HVAC) CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DIRECTION OF ROTATION FOR ALL THREE PHASE MOTORS AND EQUIPMENT.

IN ALL CASES THE DIVISION 22 (PLUMBING) AND DIVISION 23 (HVAC) CONTRACTOR SHALL BE CONTRACTUALLY OBLIGATED TO INSURE ALL FINAL CONNECTIONS, START UP, AND TESTING OF EQUIPMENT IS PROVIDED PER THE MANUFACTURERS' STRICT INSTRUCTIONS; HOWEVER ALL FINAL CONNECTIONS SHALL FURNISHED AND INSTALLED BY THE DIVISION 26 (ELECTRICAL) CONTRACTOR

