

# OFFICE ADDITION FOR: ST GREGORY SCHOOL

330 SAMUELS LOOP  
COX CREEK, KY 40013

## ARCHITECT:

KEYES ARCHITECTS AND ASSOCIATES  
4717 PRESTON HIGHWAY  
LOUISVILLE, KENTUCKY 40213  
PH: (502) 636-5113  
CONTACT: DEBORAH BIRD  
EMAIL: DBIRD@KEYESARCHITECTS.COM  
ARCHITECT: CHARLES J. KEYES III

## MEP ENGINEER:

E.C. ENGINEERING INC  
P.O. BOX 31  
GOSHEN KY 40026  
PH: 502-494-4219  
CONTACT: ERNIE CRUSE  
EMAIL: ECRUSE@ENGLTG.COM

## OWNER:

ST GREGORY CATHOLIC CHURCH  
330 SAMUELS LOOP  
COX CREEK, KY 40013  
PH: (502) 348-6337  
CONTACT: CAMILLE BOON  
EMAIL: CAMILLE.BOONE@STGREGORYPARISH.ORG

## CIVIL ENGINEER:

SPAULDING SURVEYING, LLC  
895 SPAULDING LANE  
SPRINGFIELD, KY 40069  
PH: (859) 805-0561  
CONTACT: WILLIAM SPAULDING JR  
EMAIL: WILL@SPAULDINGSURVEYING.COM



### PROJECT INFORMATION

**APPLICABLE BUILDING CODES**  
BUILDING CODE : KBC 2018  
ACCESSIBILITY CODE : ADA / ANSI 117.1 2010 / 2009  
ENERGY CODE : IECC 2012

**USE AND OCCUPANCY:** E - EDUCATION / B - BUSINESS - ACCESSORY

**CONSTRUCTION TYPE:** II-B

**BUILDING INFORMATION** SCHOOL OFFICE ADDITION TO EXISTING EDUCATIONAL BUILDING, EXISTING CHURCH ASSEMBLY BUILDING SEPARATED FROM SCHOOL BUILDING WITH 2 HR FIRE WALL

EXISTING E BUILDING: 18,515 s.f.  
BUILDING ADDITION: 1,670 s.f.  
TOTAL BUILDING SIZE: 20,185 s.f.  
FIRE SUPPRESSION: NON SPRINKLERED

### OCCUPANCY ALLOWANCE

FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANCY
SCHOOL OFFICES	100 GROSS	1,670 S.F	16
TOTAL OCCUPANCY ALLOWANCE:			16

### REVISIONS:



NOTE SYMBOL

### Sheet List Table

Sheet Number	Sheet Title
T1.01	Title Sheet
<b>Civil Plans</b>	
C0.0	Civil Cover Sheet
C0.1	General Notes
C1.1	Demolition Plan
C2.1	Site Layout
C3.1	Grading & Drainage Plan
C4.1	Utility Plan
<b>Life Safety Plans</b>	
LS1.01	Life Safety Plan
LS1.02	Life Safety Plan
<b>Demolition Plans &amp; Details</b>	
D1.01	Demolition Plan
<b>Foundation Plans &amp; Details</b>	
F1.01	Foundation Plan
F2.01	Foundation Details
<b>Floor Plans</b>	
A1.01	School Office Floor Plan
A1.02	Roof Plan
<b>Exterior Elevations</b>	
A2.01	Exterior Elevations
<b>Schedules and Standards</b>	
A3.01	Commercial ADA-Ansi Guidelines
A3.02	Accessibility Site Details
<b>Details &amp; Sections</b>	
A5.01	Wall Sections and Details
A5.02	Wall Sections and Details
A5.03	Cabinetry Details
A6.01	Door and Window Details
<b>Mechanical</b>	
M0.01	General Mechanical Notes
MD1.01	Mechanical Demo Plan
M1.01	Mechanical Floor Plan
M5.01	Mechanical Schedule
M8.01	Mechanical Specifications
M8.02	Mechanical Specifications
M8.03	Mechanical Specifications

<b>Plumbing</b>	
P1.01	Plumbing Notes and Risers
P1.02	Plumbing Floor Plan
P1.03	Plumbing Gas Floor Plan
<b>Electrical</b>	
ED1.0	Electrical Demolition Plan
ED2.0	Demolition Panel Schedules
E1.01	Power Plan
E1.02	Lighting Plan
<b>Specifications</b>	
SP1.01	Specifications
SP1.02	Specifications
SP1.03	Specifications

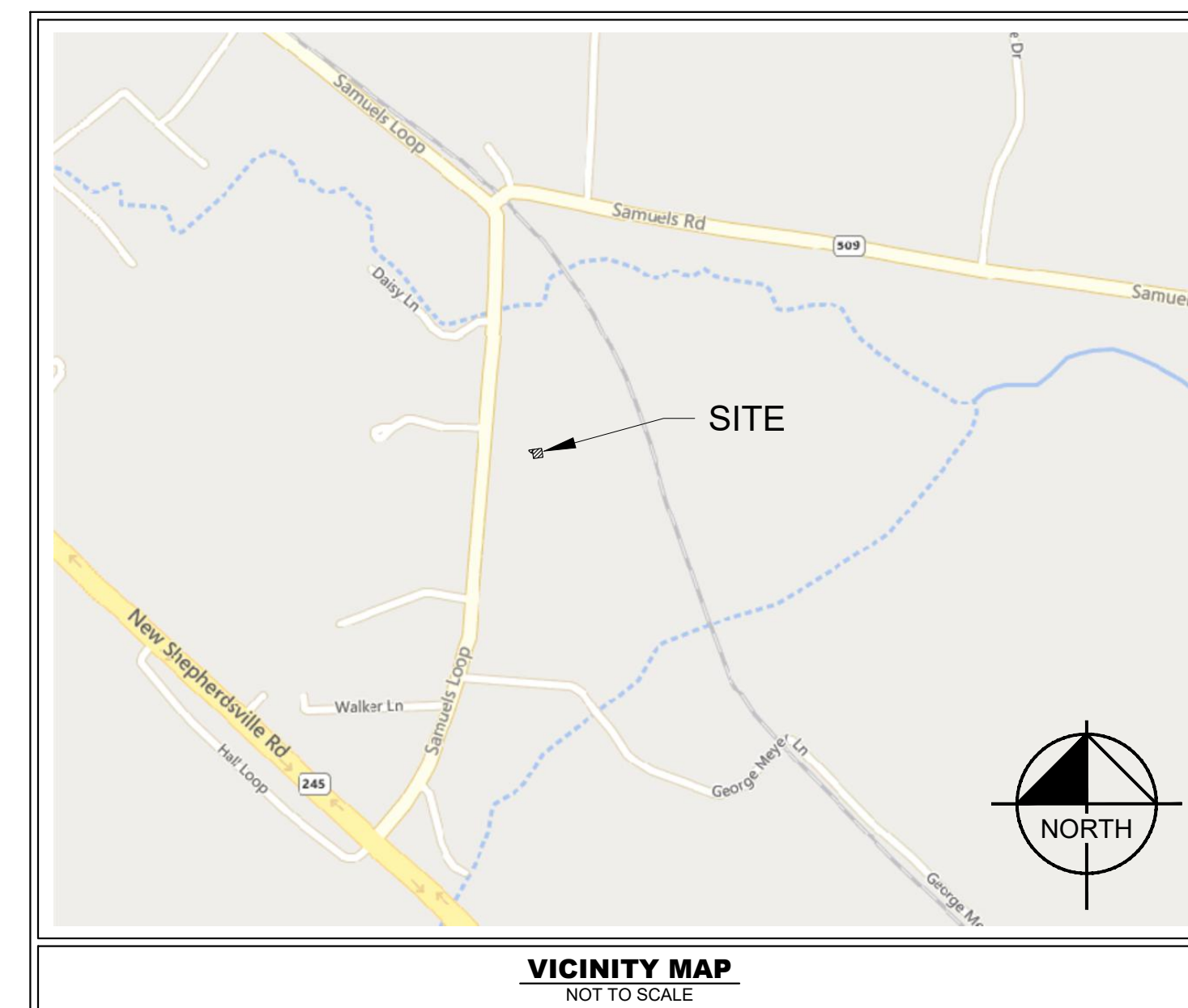
# ST. GREGORY SCHOOL - PHASE 1 BUILDING ADDITIONS

350 SAMUELS LOOP  
COXS CREEK, KENTUCKY

BID SET: 07/01/24

SITE DATA TABLE		
SITE ADDRESS	350 SAMUELS LOOP COXS CREEK, KENTUCKY, 40013	
TAX MAP	MAP 31SSW PARCEL 05-004	
OVERALL AREA	EXISTING	PROPOSED
SITE AREA	7.27 AC	7.27 AC
DISTURBED AREA	N/A	0.15 AC
IMPERVIOUS AREA	3.13 AC	3.14 AC
PERVIOUS AREA	4.14 AC	4.13 AC
OPEN SPACE	56.9%	56.8%

EXISTING PROPERTY SUMMARY	
PROPERTY ADDRESS:	350 SAMUELS LOOP COXS CREEK, KENTUCKY
MAP AND PARCEL ID:	MAP 31SSW, PARCEL 05-004
U.S. FEMA FIRM PANEL:	21179C0025E DATED 05/23/23
EXISTING ZONING:	A1
EXISTING LAND USE:	SCHOOL



**COXS CREEK**  
**NELSON COUNTY, KENTUCKY**

Sheet List Table	
Sheet Number	Sheet Title
C0.0	COVER
C0.1	GENERAL NOTES
C1.1	DEMOLITION PLAN
C2.1	SITE LAYOUT
C3.1	GRADING AND DRAINAGE PLAN
C4.1	UTILITY PLAN

**OWNER / DEVELOPER**



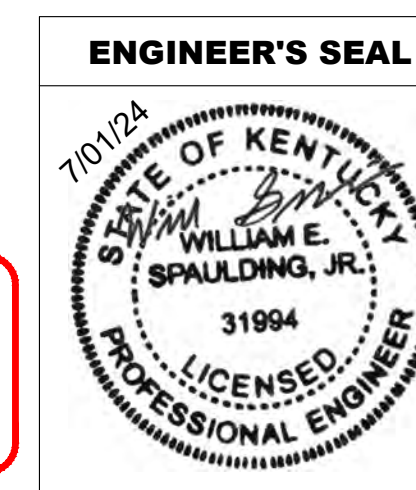
ST. GREGORY SCHOOL  
350 SAMUELS LOOP  
COXS CREEK, KENTUCKY, 40013  
PHONE: 502-348-9583  
CONTACT: TIM HUTCHINS

**PLANS PREPARED BY**



895 Spaulding Lane, Springfield, KY 40069  
Main: 859.805.0561 | www.spauldingsurveying.com

PLAN REVISIONS		
REVISION NO.	DATE	REMARKS
FILE NUMBER	SHEET NUMBER	TOTAL SHEETS
<b>C-24-006</b>	<b>C0.0</b>	<b>6</b>



**BID SET**







DEMOLITION LEGEND	
	REMOVE ASPHALT
	REMOVE CONCRETE
	REMOVE LINEAR OBJECT (FENCE/UTILITIES)
	REMOVE OBJECT

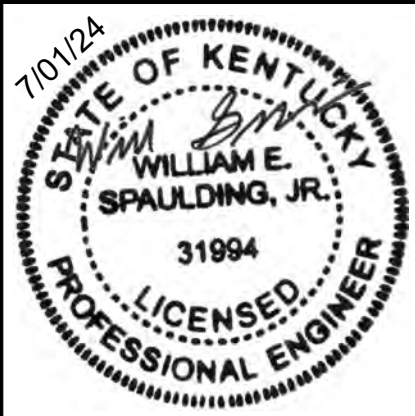
**EXISTING UTILITIES NOTE**

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.



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ST. GREGORY SCHOOL  
PHASE 1 - BUILDING  
ADDITIONS  
COXS CREEK, KY



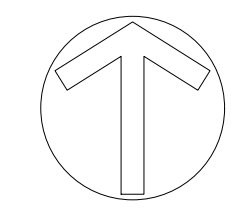
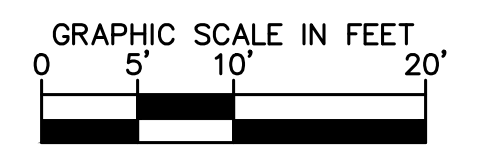
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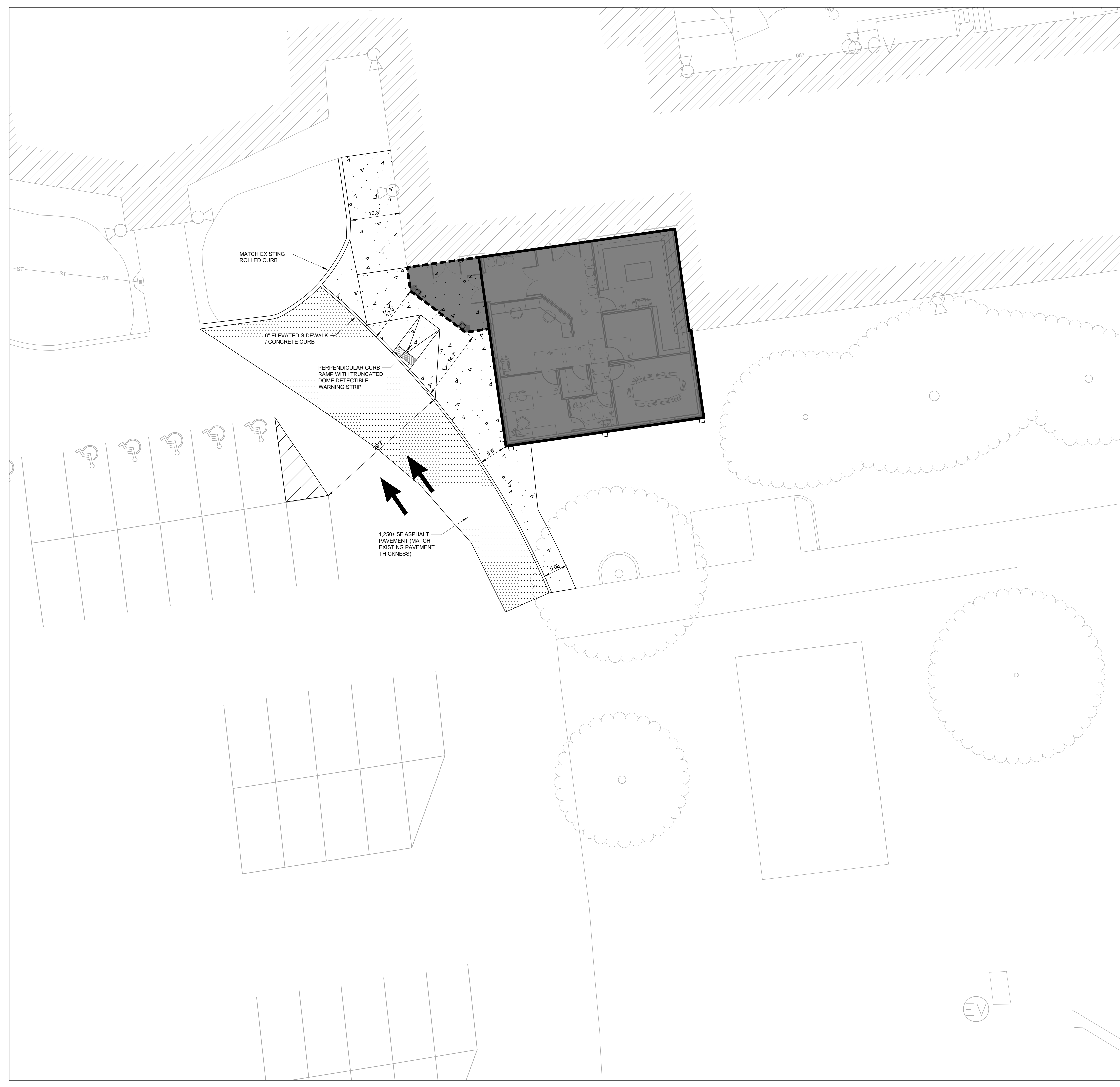
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DRAWN BY:  
CHECKED BY:  
DATE: 07/01/24  
SPAULDING SURVEYING PROJECT NO. C-24-006

SHEET NUMBER

**SEE DEMOLITION NOTES,  
SHEET C0.1.**

**BID SET**





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EXISTING LAND USE:	SCHOOL

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IMPERVIOUS AREA	3.13 AC	3.14 AC
PERVIOUS AREA	4.14 AC	4.13 AC
OPEN SPACE	56.9%	56.8%
SETBACKS	EXISTING	PROPOSED
FRONT (WEST)	175	175
SIDE (NORTH)	124	124
SIDE (SOUTH)	64	64
REAR (EAST)	168	168

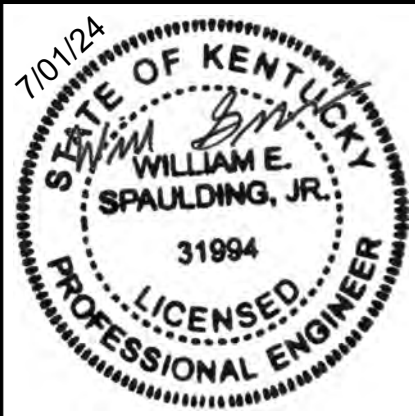
HATCH AND LINETYPE LEGEND	
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	LIGHT DUTY CONCRETE PAVEMENT
	HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED BUILDING
	REMOVE TREES/BRUSH

- SITE NOTES**
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
  - PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED.
  - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DRAINAGE AND UTILITY CONNECTIONS TO ENSURE THEY CAN BE PROPERLY CONNECTED.
  - IN THE EVENT OF A CONFLICT BETWEEN THIS DRAWING AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
  - ALL RIGID AND/OR FLEXIBLE PAVEMENT AND STONE SHALL MEET THE MATERIALS, EQUIPMENT, CONSTRUCTION, & TESTING REQUIREMENTS OF THESE DRAWINGS AND/OR THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS.
  - ALL SETBACKS SHALL BE IN ACCORDANCE WITH THE LOCAL ZONING ORDINANCE.
  - ALL PAVEMENT MARKINGS WITHIN THE DEVELOPMENT SHALL BE PAINTED.
  - SEE ARCH FOR BUILDING PLAN AND DIMENSIONS.
  - SEE ARCH FOR CANOPY DETAIL AND DIMENSIONS.
  - THE LOCATION OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES INVOLVED. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT.
  - ADA PARKING SPACES, GRADING, RAMPS, AND STRIPING PROVIDED MUST MEET ADA STANDARDS.
  - ALL DEVELOPMENT WITHIN THE BOUNDARIES OF THIS PLAN SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. ADA: <http://www.ada.gov/>



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ST. GREGORY SCHOOL  
PHASE 1 - BUILDING  
ADDITIONS  
COXS CREEK, KY

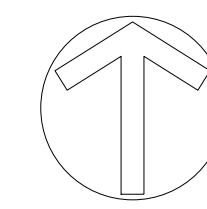
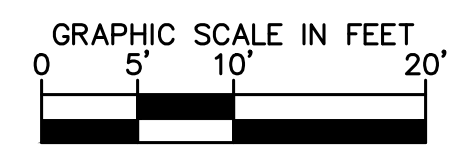


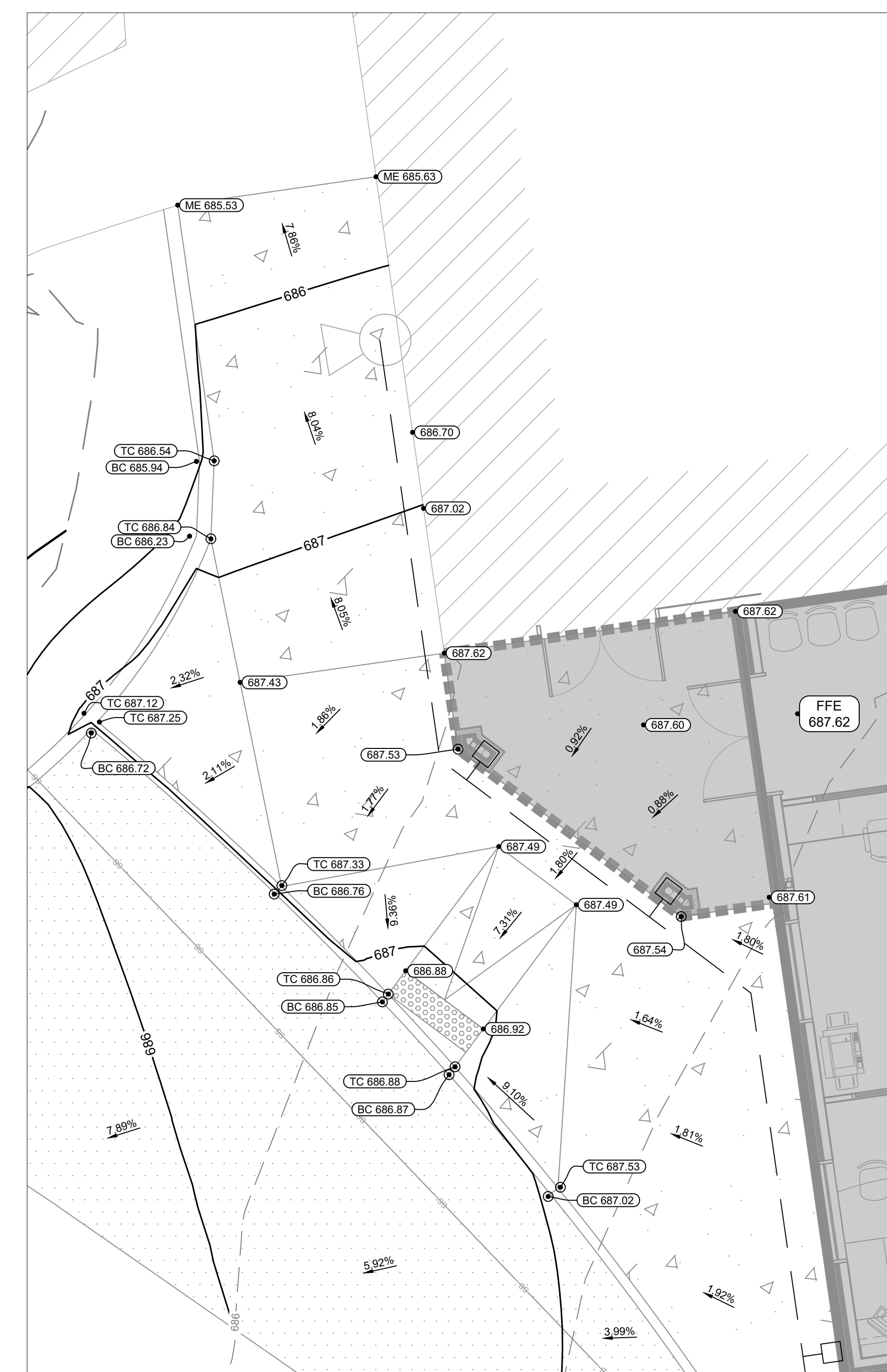
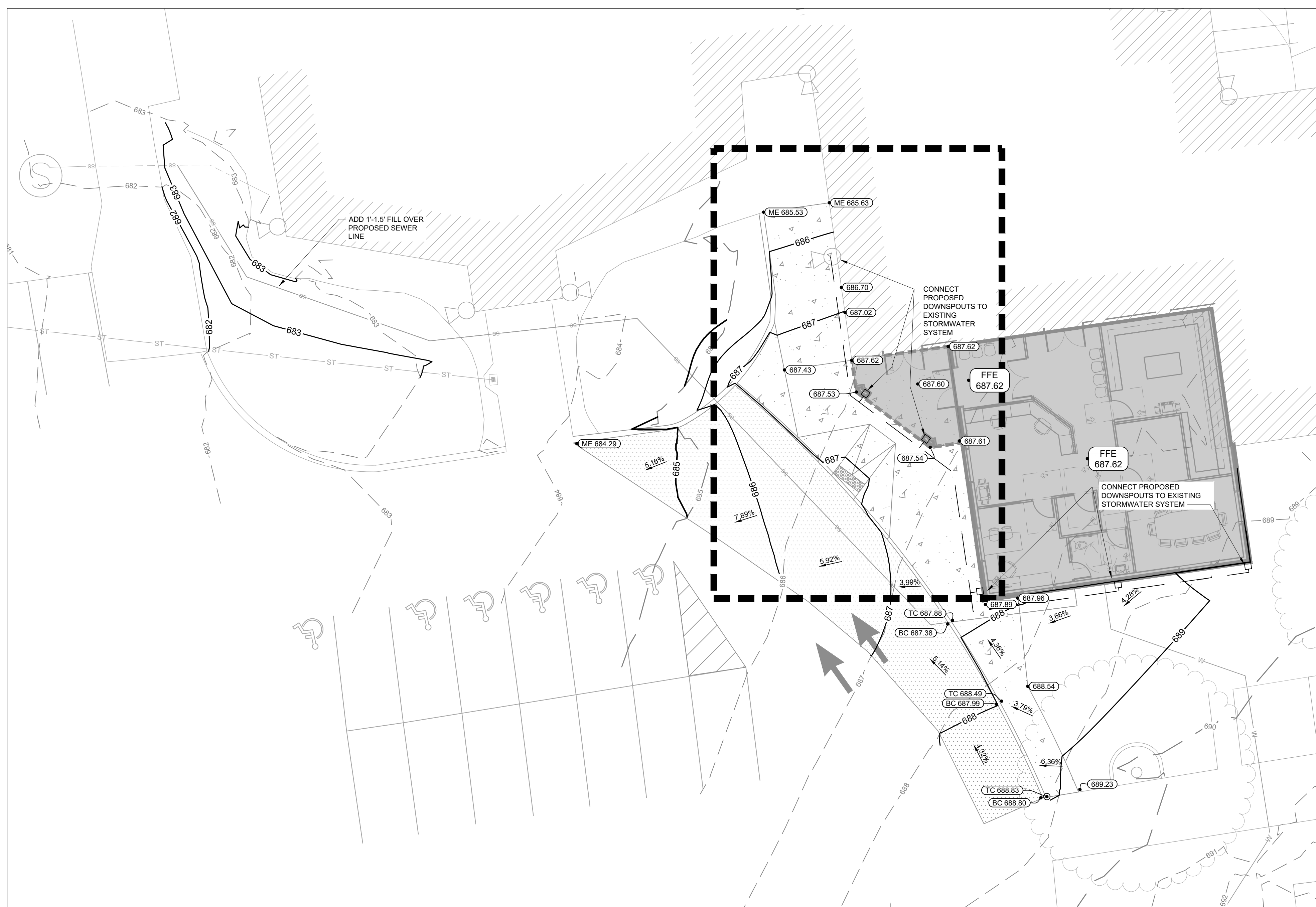
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DESIGNED BY: WES  
DRAWN BY: WES  
CHECKED BY: WES  
DATE: 07/01/24  
SPAULDING SURVEYING PROJECT NO. C-24-006

SITE LAYOUT  
SHEET NUMBER  
**C2.1**

**BID SET**





**ENLARGEMENT**  
1" = 5'

**GRADING NOTES**

- CONTRACTOR RESPONSIBLE FOR VERIFYING LOCATION, SIZE, AND ELEVATIONS OF EXISTING UTILITIES AT CONNECTION POINTS PRIOR TO GRADING OR INSTALLATION OF ANY PROPOSED UTILITIES. CONTRACTOR TO IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
- DISTURBED AREAS LEFT IDLE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION. MULCH, TEMPORARY VEGETATION OR PERMANENT VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.
- SEDIMENT/EROSION CONTROL DEVICES MUST BE INSPECTED ACCORDING TO LOCAL AND STATE REQUIREMENTS AND AS STIPULATED IN THE STORMWATER POLLUTION PREVENTION PLAN. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MAY BE NECESSARY AS THE PROJECT PROGRESSES AND NEW CHANNELS HAVE DEVELOPED.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- CONTRACTOR SHALL REVIEW SITE GEOTECHNICAL REPORT BEFORE COMMENCING GRADING OPERATIONS.
- SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED AS PART OF THIS CONTRACT.
- TOPSOIL ON SITE TO BE STRIPPED AND STOCKPILED FOR REUSE IN LAWN AREAS.
- ADEQUATE DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES, BEST MANAGEMENT PRACTICES, AND/OR OTHER WATER QUALITY MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNER'S FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
- UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, DESIGNER, OR THEIR REPRESENTATIVES. BEFORE YOU DIG CALL ONE CALL-811 OR 1-800-732-6007
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN.

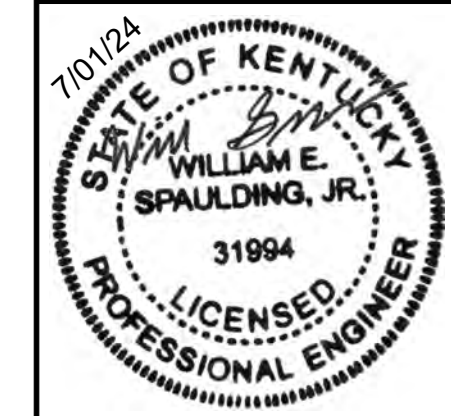
**GRADING PLAN LEGEND**

- 476.17 SPOT ELEVATION
- TC TOP OF CURB
- BC BOTTOM OF CURB
- ME MATCH EXISTING
- FFE 472.00 FINISH FLOOR ELEVATION
- 500- EXISTING CONTOUR
- 500- PROPOSED CONTOUR



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**ST. GREGORY SCHOOL  
PHASE 1 - BUILDING  
ADDITIONS**  
COXS CREEK, KY

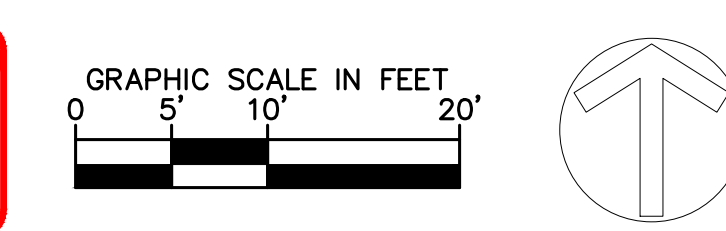


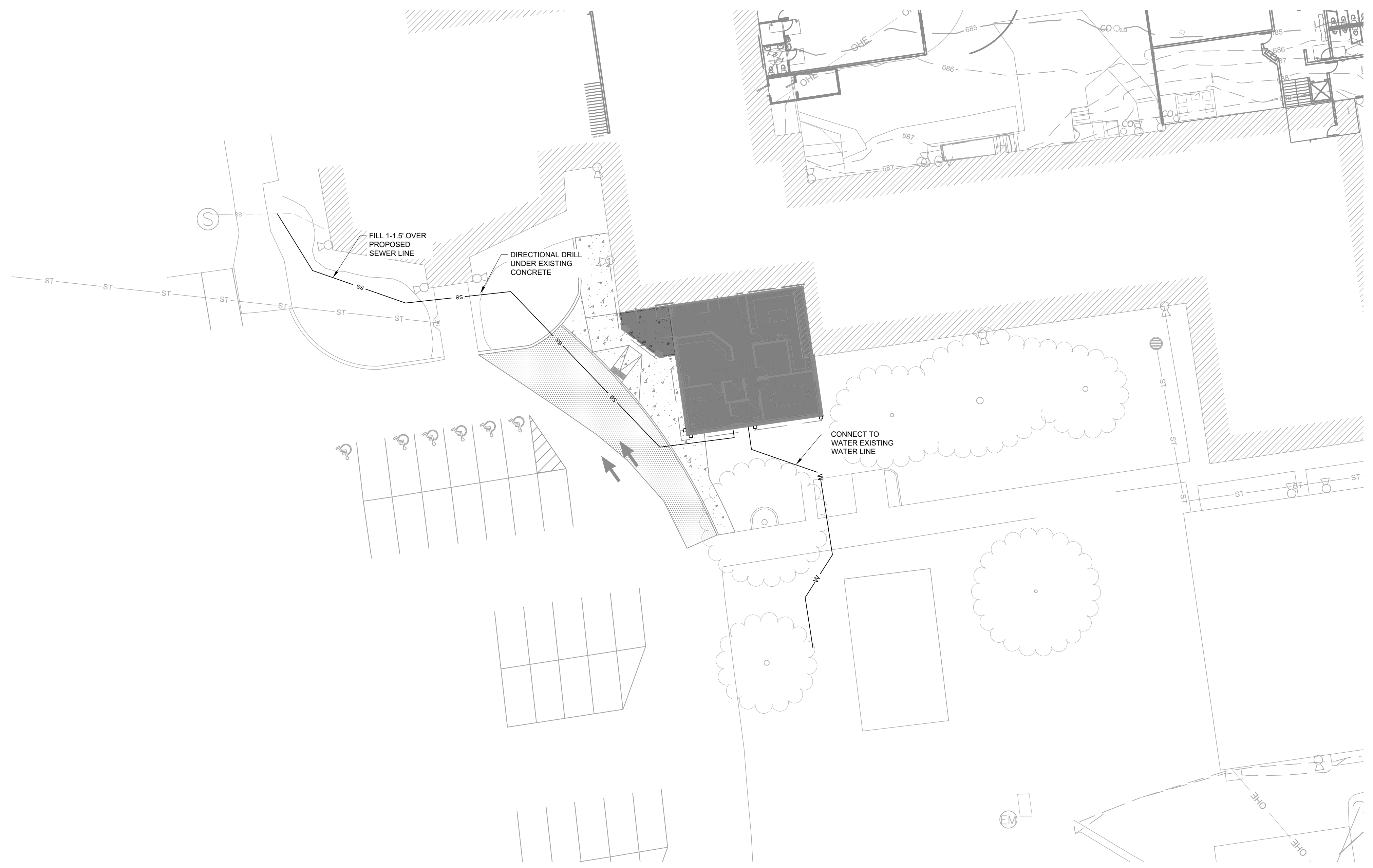
BY	
DATE	
REVISIONS	
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DRAWN BY:	WES
CHECKED BY:	WES
DATE:	07/01/24
SPAULDING SURVEYING PROJECT NO.:	C-24-006

GRADING AND DRAINAGE PLAN  
SHEET NUMBER  
**C3.1**

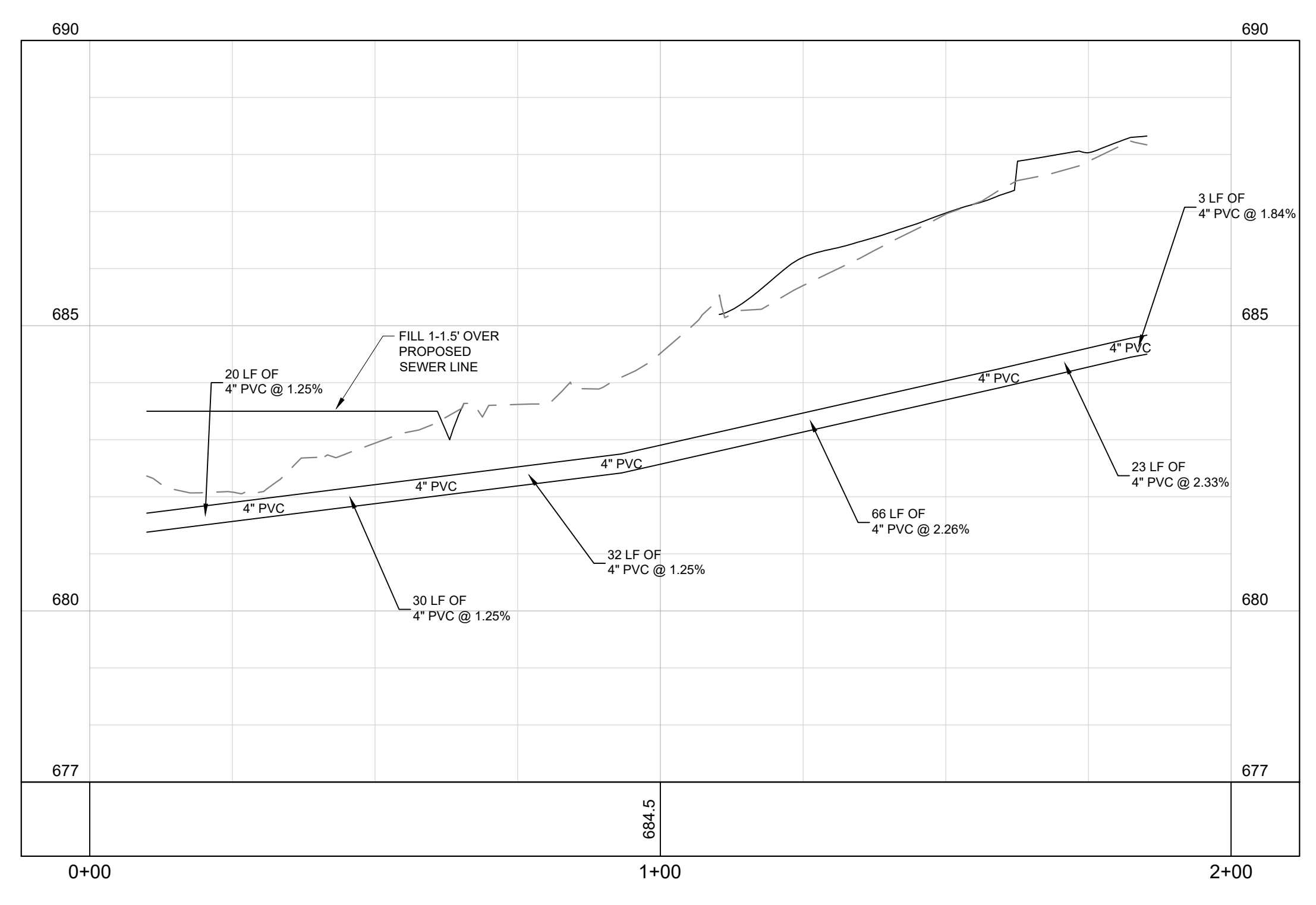
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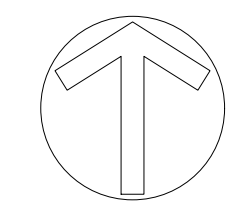
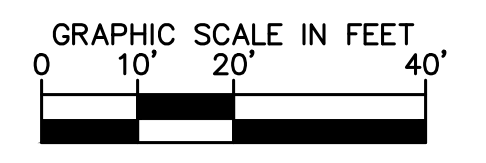


- UTILITY STANDARDS AND NOTES**
1. CONTRACTOR RESPONSIBLE FOR VERIFYING EXISTING ELEVATIONS COMPARED TO THOSE SHOWN ON PLAN PRIOR TO GRADING. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
  2. ALL WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF BARDSTOWN.
  3. ALL WATER AND/OR SEWER SERVICES, ALONG WITH APPURTENANCES, SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF BARDSTOWN.
  4. AFTER COMPLETION OF THE SANITARY SEWER AND WATER LINES, THE DEVELOPER IS RESPONSIBLE FOR THE TESTING/TELEVISION OF THE LINES PRIOR TO FINAL ACCEPTANCE.
  5. REFER TO CITY OF BARDSTOWN STANDARD SPECIFICATIONS FOR PIPE BEDDING REQUIREMENTS.
  6. ALL WATER VALVES TO BE LOCATED OUTSIDE OF PAVED AREAS WHERE POSSIBLE.
  7. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL CHARTED AND UNCHARTED UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.

# SSWR-PHASE 1



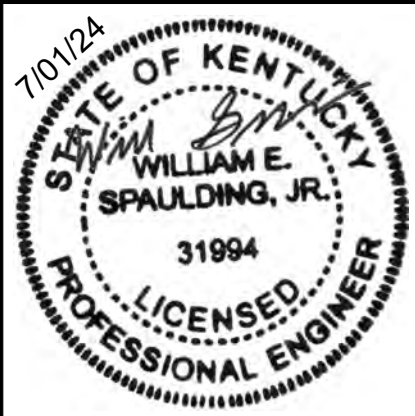
**BID SET**



**SPAULDING SURVEYING**

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ST. GREGORY SCHOOL  
PHASE 1 - BUILDING  
ADDITIONS  
COXS CREEK, KY



NO.	DATE	REVISIONS
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DESIGNED BY: WES  
DRAWN BY: WES  
CHECKED BY: WES  
DATE: 07/01/24  
SPAULDING SURVEYING PROJECT NO. C-24-006

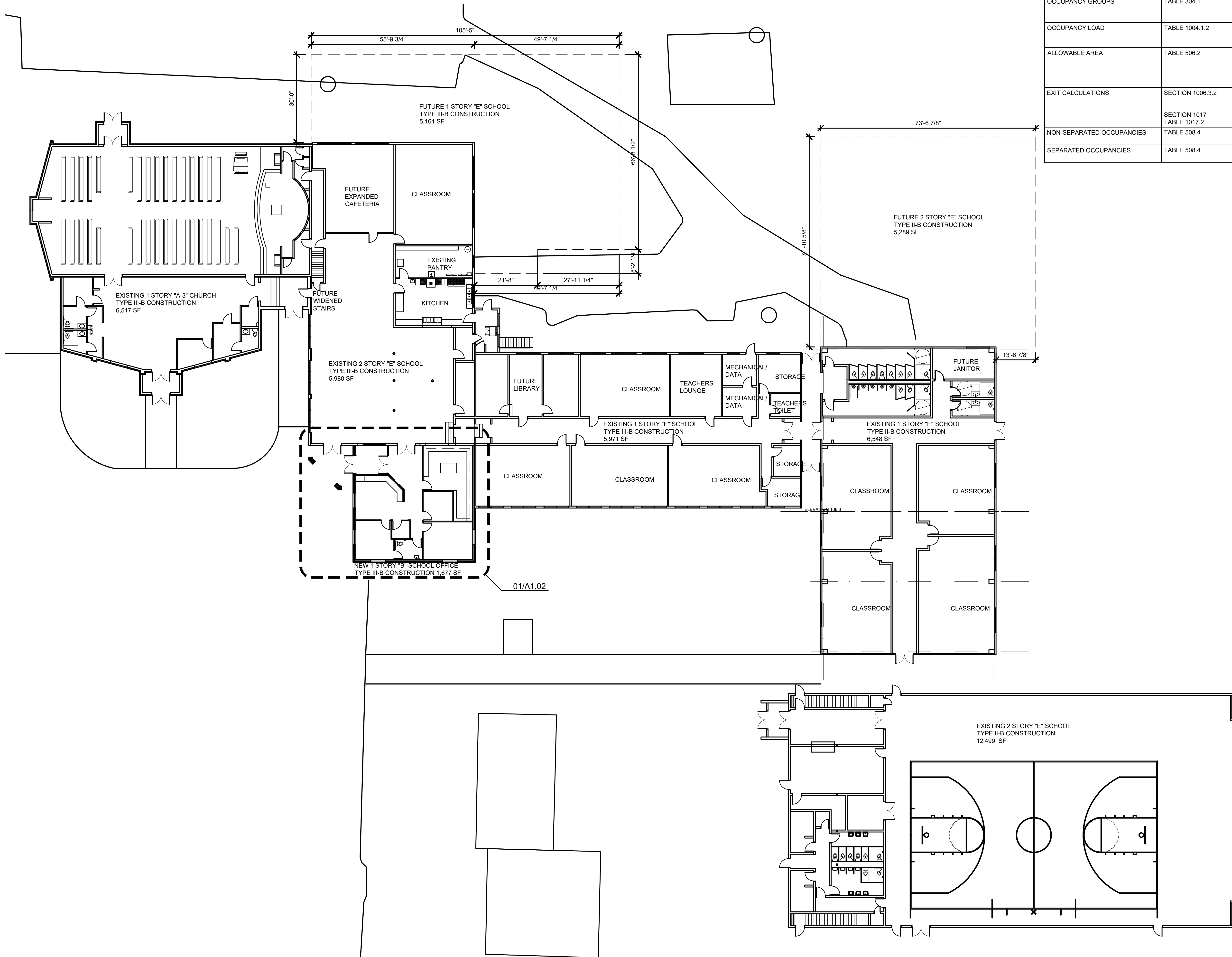
UTILITY PLAN  
SHEET NUMBER  
**C4.1**

PROJECT: ST GREGORY SCHOOL - FILE: LS1.01 Life Safety Plan.dwg - DATE: Jul 10, 2024, 12:50PM - BY: NICK MCCART

### CODE ANALYSIS

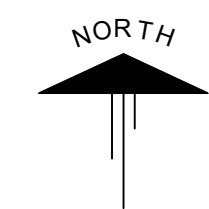
CATEGORY	CODE REFERENCE	REQUIREMENT/DESIGNATION	PROVIDED
CONSTRUCTION TYPE	TABLE 506.2		III-B
OCCUPANCY GROUPS	TABLE 304.1		E-EDUCATION, B-BUSINESS (ACCESSORY)
OCCUPANCY LOAD	TABLE 1004.1.2		
ALLOWABLE AREA	TABLE 506.2	16 TOTAL OCCUPANTS IN ADDITION TABULAR AREA - 14,500 SF WITH 42% FRONTAGE INCREASE 581'-8" x 861'-10" .25 (CALCULATED WITH FUTURE ADDITIONS CONSIDERED) - 20,590 SF	20,185 S.F.
EXIT CALCULATIONS	SECTION 1006.3.2 SECTION 1017 TABLE 1017.2	COMMON PATH OF EGRESS TRAVEL GROUP EXIT ACCESS TRAVEL DISTANCE	75 FT 200 FT
NON-SEPARATED OCCUPANCIES	TABLE 508.4	NO SEPARATION BETWEEN EDUCATIONAL AND BUSINESS	
SEPARATED OCCUPANCIES	TABLE 508.4	2 HR SEPARATION BETWEEN ASSEMBLY AND EDUCATIONAL	EXISTING (VIF)

PROJECT NO:  
23-4451  
DRAWN BY:  
DLB/  
DATE:  
05/17/2024



## 01 LIFE SAFETY PLAN

SCALE: 3/32" = 1'-0"



**KEYES ARCHITECTS & ASSOCIATES**  
4717 PRESTON HIGHWAY  
LOUISVILLE, KENTUCKY 40213 (502) 636-5113

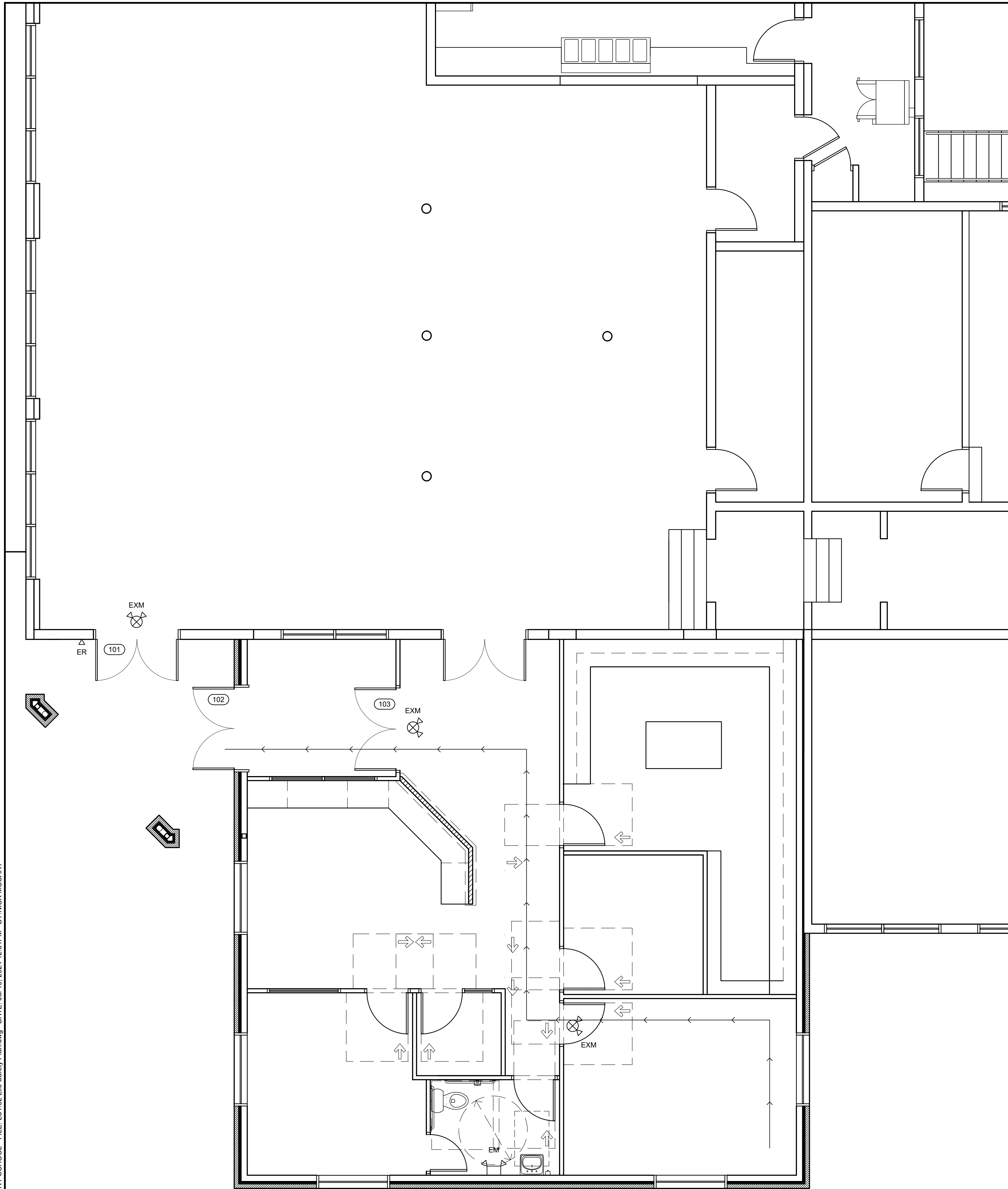
**ST GREGORY SCHOOL**  
OFFICE ADDITION  
400 SAMUELS LOOP  
COX CREEK, KY 40013

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LIFE SAFETY PLAN  
**LS1.01**



PROJECT: ST GREGORY SCHOOL - FILE: LS1.02 Life Safety Plan.dwg - DATE: Jul 10, 2024, 12:51PM - BY: NICK MCCART



### LIFE SAFETY PATHWAYS

		TOTAL TRAVEL DISTANCE
LOCATION	COMMON PATH	DOOR NUMBER
1	-	69'-0"
		EXIT 102
		69'-0"

#### PATHWAY KEY PLAN:

- : TRAVEL PATH W/ DIRECTION OF FLOW
- ⬠# : TRAVEL PATH STARTING LOCATION, WHERE "#" = LOCATION COLUMN IN THIS TABLE.
- ⬠# : COMMON PATH LOCATION, WHERE "#" = LOCATION COLUMN IN THIS TABLE.
- ⊗# : EXIT DOOR LOCATION, WHERE "#" = DOOR IN THIS TABLE AND IN DOOR FINISH SCHEDULE.

### EMERGENCY LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MODEL#	BULBS
ER ▽	EMERGENCY REMOTE HEAD	LITHONIA #ELA-NX-H0606	INCLUDED
EM ⬠	EMERGENCY LIGHT W/ BATTERY PACK REMOTE HEAD WHERE SHOWN	LITHONIA #6ELM2P	INCLUDED
EXM ⊗	COMBINATION EXIT/EMERGENCY FIXTURE W/ BATTERY PACK	LITHONIA #LHQM-S-W-1-R-120/277-HO	INCLUDED

NOTE: EXIT EMERGENCY LIGHTING IS ON AN "NL" CIRCUIT

PROJECT NO:  
23-4451  
DRAWN BY:  
DLB/  
DATE:  
05/17/2024

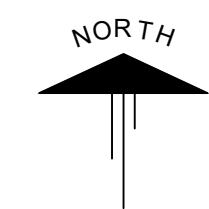


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OFFICE ADDITION  
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400 SAMUELS LOOP  
COX CREEK, KY 40013

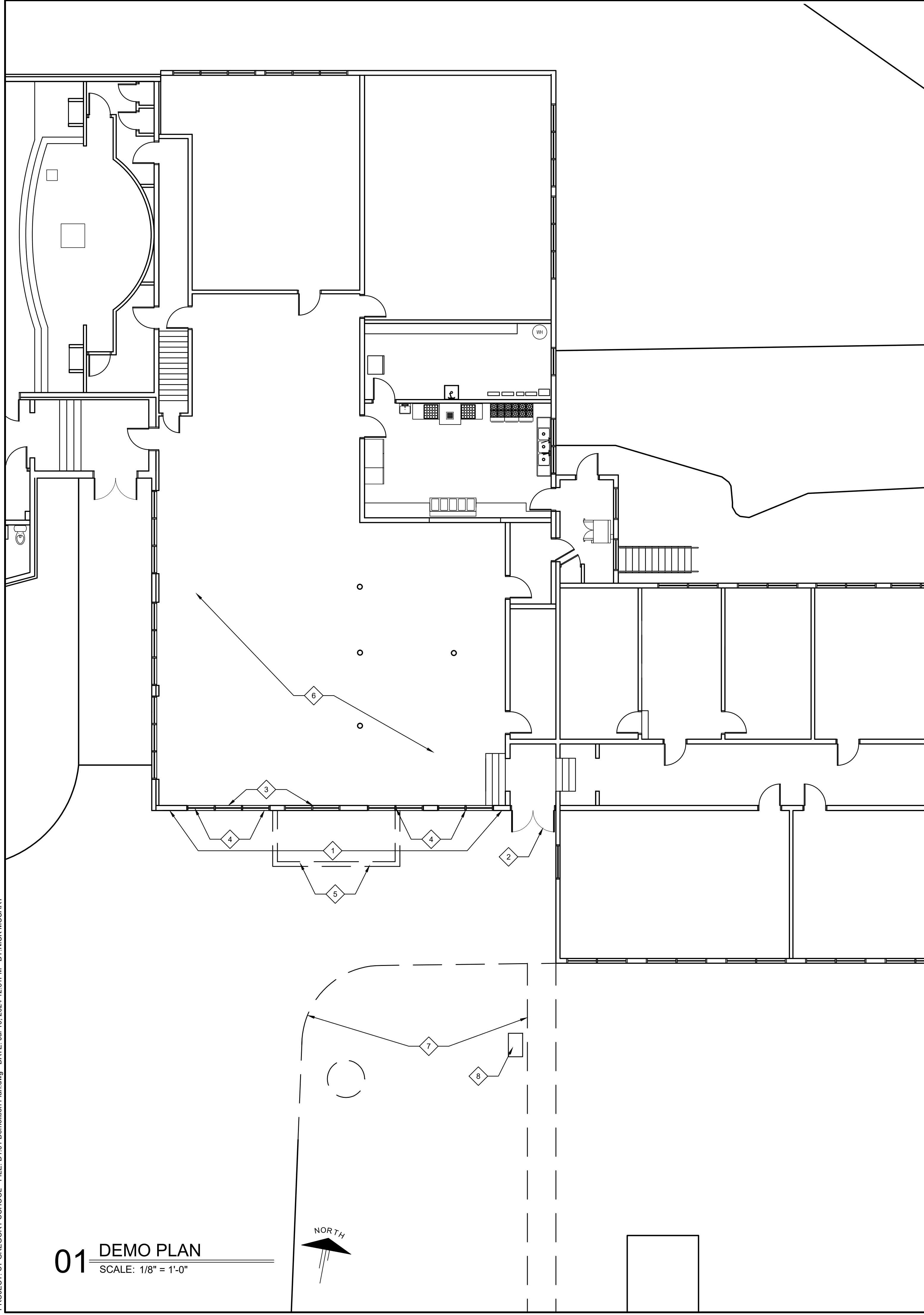
## 01 LIFE SAFETY PLAN

SCALE: 3/32" = 1'-0"



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LIFE SAFETY PLAN  
**LS1.02**



**PATCH AND REPAIR NOTES**

PROMPTLY PATCH AND REPAIR HOLES AND DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION BY SELECTIVE DEMOLITION OPERATIONS.

WHERE REPAIRS TO EXISTING SURFACES ARE REQUIRED, PATCH TO PRODUCE SURFACES SUITABLE FOR NEW MATERIALS.

RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO ADJOINING CONSTRUCTION TO REMAIN IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING.

PATCH AND REPAIR FLOOR AND WALL SURFACES IN THE NEW SPACE WHERE DEMOLISHED WALLS OR PARTITIONS EXTEND ONE FINISHED AREA INTO ANOTHER. PROVIDE A FLUSH AND EVEN SURFACE OF UNIFORM COLOR AND APPEARANCES.

**SELECTIVE DEMOLITION NOTES**

REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED SALVAGED, OR TO REMAIN THE OWNER'S PROPERTY.

REMOVE ITEMS INDICATED. CLEAN SURFACE, AND OTHERWISE REPAIR THEM FOR REUSE, STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN LOCATIONS INDICATED.

PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY THE ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTED DEMOLITION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.

IDENTIFY AND ACCURATELY LOCATE CAPPED UTILITIES AND OTHER SUBSURFACE STRUCTURAL ELECTRICAL OR MECHANICAL CONDITIONS. DOCUMENT THESE UTILITIES ON RECORD DRAWINGS PROVIDED TO ARCHITECT UPON COMPLETION OF PROJECT.

PROTECT WALLS, CEILINGS, FLOORS, AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN AND ARE EXPOSED DURING SELECTIVE DEMOLITION OPERATIONS. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACE AND AREAS.

COVER AND PROTECT FURNITURE, FURNISHINGS, AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.

BY SELECTIVE DEMOLITION OPERATIONS. RETURN AREAS TO CONDITION EXISTING BEFORE START OF NEW WORK.

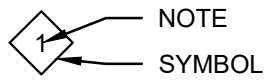
DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. DISPOSAL: PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE. TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM. SWEEP THE AREA OF WORK BROOM CLEAN ON COMPLETION OF SELECTIVE DEMOLITION OPERATION.

PROTECTION OF PEDESTRIANS SHALL BE PROVIDED DURING CONSTRUCTION, REMODELING, AND DEMOLITION ACTIVITIES AS REQUIRED BY STATE BUILDING CODE. SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC DURING DEMOLITION, CONSTRUCTION AND REMODELING.

IF BUSINESS WILL REMAIN OPERATIONAL DURING DEMOLITION AND CONSTRUCTION COORDINATE ACTIVITIES WITH OWNER TO MINIMIZE OR ELIMINATE DISRUPTION TO THE OPERATION OF THE BUSINESS.

**SHEET NOTES:**

- 1 REMOVE BRICK FROM WALL, UP TO CORNER, NEW BRICK WILL BE INSTALLED TO MATCH NEW CONSTRUCTION
- 2 DEMO DOOR
- 3 DEMO RADIATORS- SEE MECHANICAL DRAWINGS
- 4 DEMO WINDOWS
- 5 DEMO MECHANICAL ENCLOSURE AND SAVE UNITS FOR RELOCATION.
- 6 DEMO CEILING TO ACCOMODATE NEW DUCT WORK
- 7 DEMO CURB, ASPHALT FOR NEW CONSTRUCTION, DEMO EXISTING SIDEWALK
- 8 REMOVE SCHOOL BELL AND SAVE FOR RELOCATION IN COORDINATION WITH SCHOOL



**01 DEMO PLAN**  
SCALE: 1/8" = 1'-0"



**NOTE:** ALL DIMENSIONS ARE TO FACE OF STUD

**NOTE:** GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL SUB TRADES AND REQUIREMENTS BY OWNER

**NOTE:** ELECTRICAL, HVAC AND PLUMBING TO BE RELOCATED PER FEDERAL, STATE AND LOCAL CODES. GENERAL CONTRACTOR TO COORDINATE.

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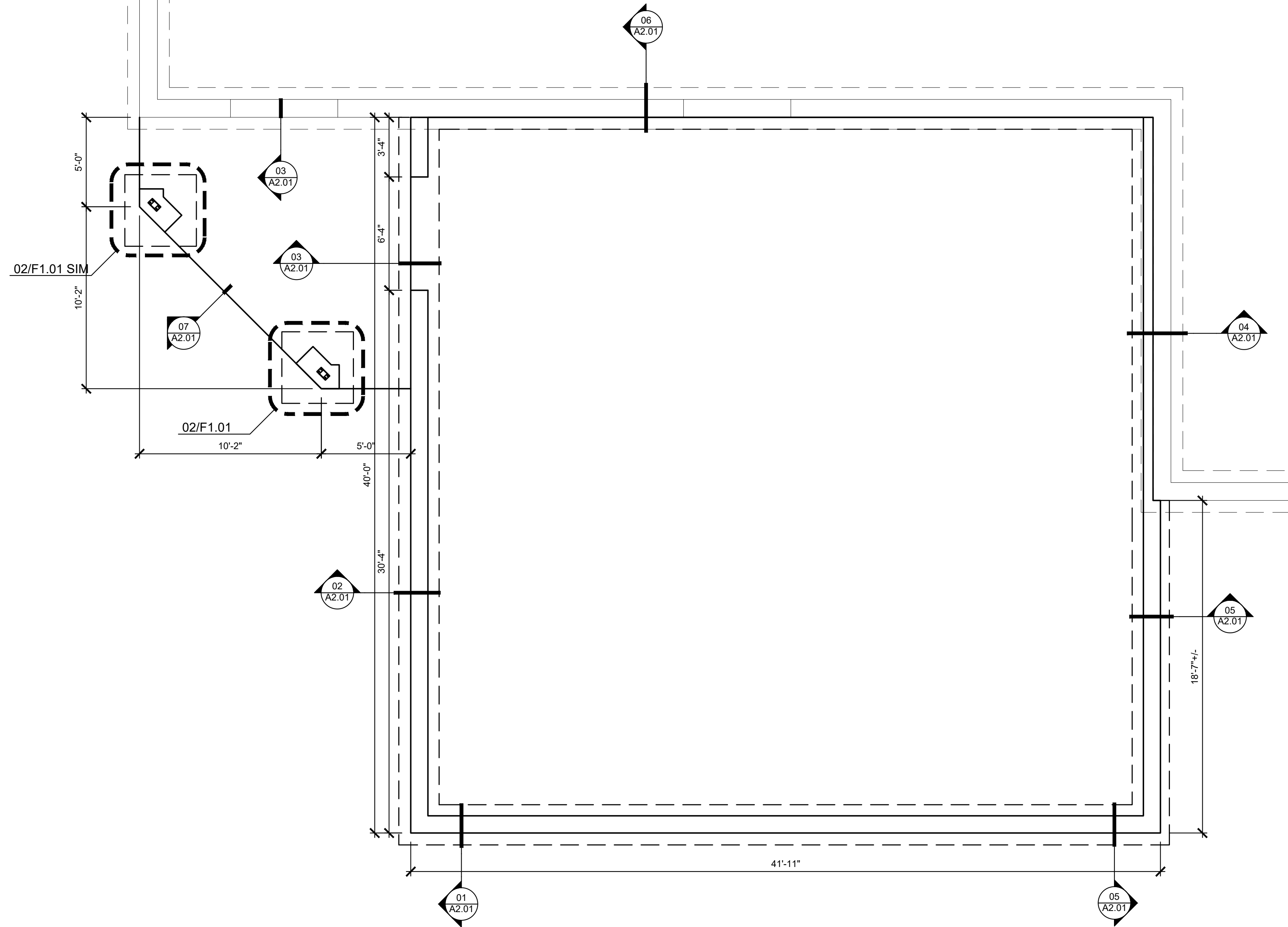
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LOUISVILLE, KENTUCKY 40213 (502) 636-5113

OFFICE ADDITION  
**ST GREGORY SCHOOL**  
400 SAMUELS LOOP  
COX CREEK, KY 40013

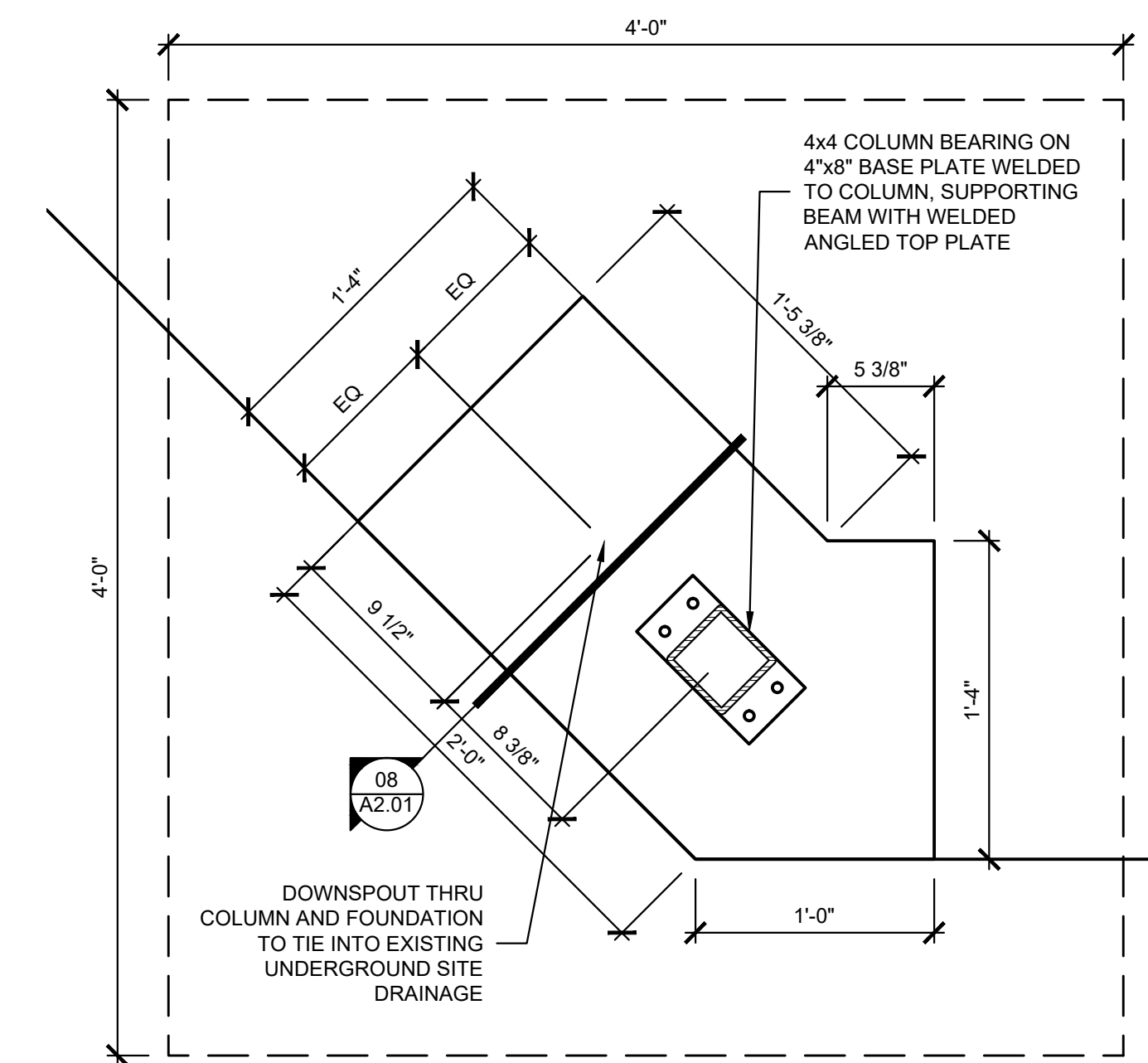
DEMOLITION PLAN  
**D1.01**

**FOUNDATION NOTES**

- 1) ALL CONCRETE TO BE 4,000 P.S.I.
- 2) ALL FOOTINGS AND PIERS ARE TO BE CENTERED ON THE BUILDING COLUMNS UNLESS OTHERWISE NOTED.
- 3) COLUMN PIERS ARE TO BE PLACED INTEGRAL WITH THE GRADE BEAM OR FOUNDATION WALLS WITH REINFORCING TO BE CONTINUOUS THROUGH PIERS.
- 4) BUILDING FOUNDATIONS ARE DESIGNED FOR 1,500 P.S.F. SOIL BEARING CAPACITY. VERIFY BEFORE CONSTRUCTION.
- 5) JUNCTURE OF FLOOR SLAB WITH ALL PIERS AND GRADE TO BE 1/2" WIDE EXPANSION JOINT MATERIAL.
- 6) FLOOR SLAB TO BE POURED THRU AT ALL DOORWAYS. SLOPE 2% TO OUTSIDE.
- 7) FOOTING TO REST ON UNDISTURBED SOIL.
- 8) VERIFY FOUNDATION SIZE AND DEPTH OF EXISTING BUILDING BEFORE CONSTRUCTION. NOTIFY ARCHITECT IF THEY ARE NOT AS SHOWN.



**01 OFFICE FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



**02 PIER FOUNDATION PLAN DETAIL**  
SCALE: 1 1/2" = 1'-0"

**NOTE:** GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL SUB TRADES AND REQUIREMENTS BY OWNER

**NOTE:** ELECTRICAL, HVAC AND PLUMBING TO BE RELOCATED PER FEDERAL, STATE AND LOCAL CODES. GENERAL CONTRACTOR TO COORDINATE.

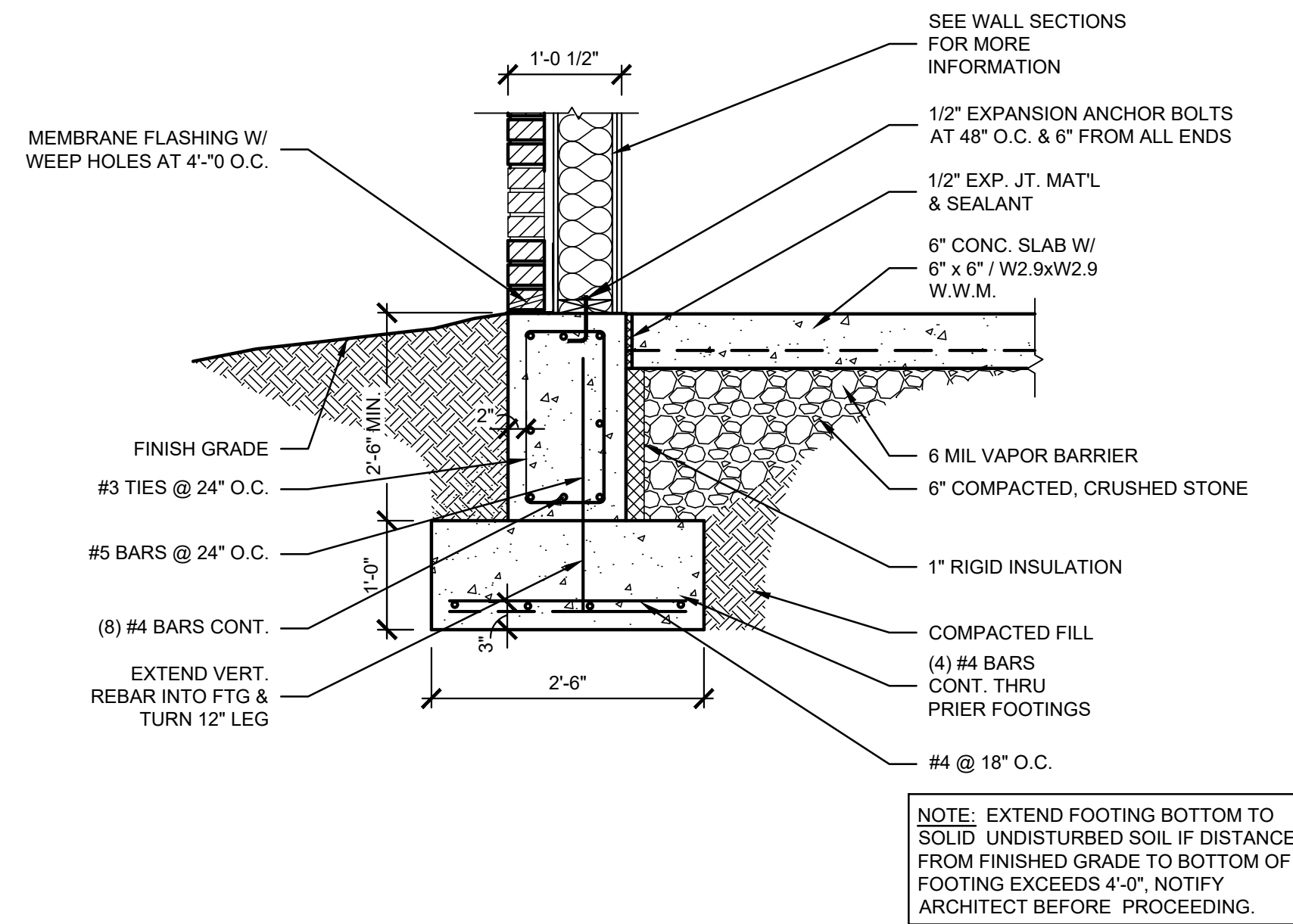
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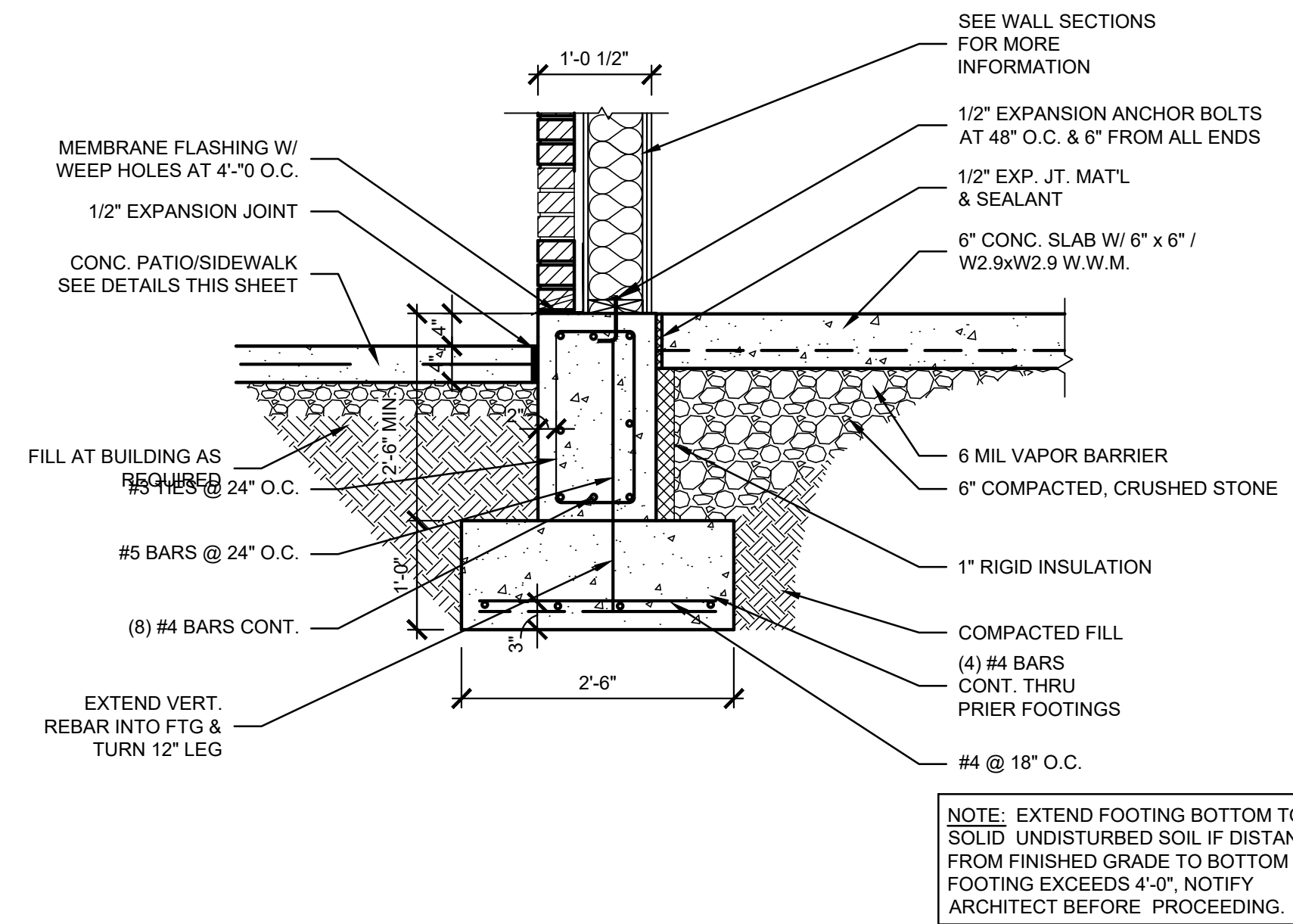
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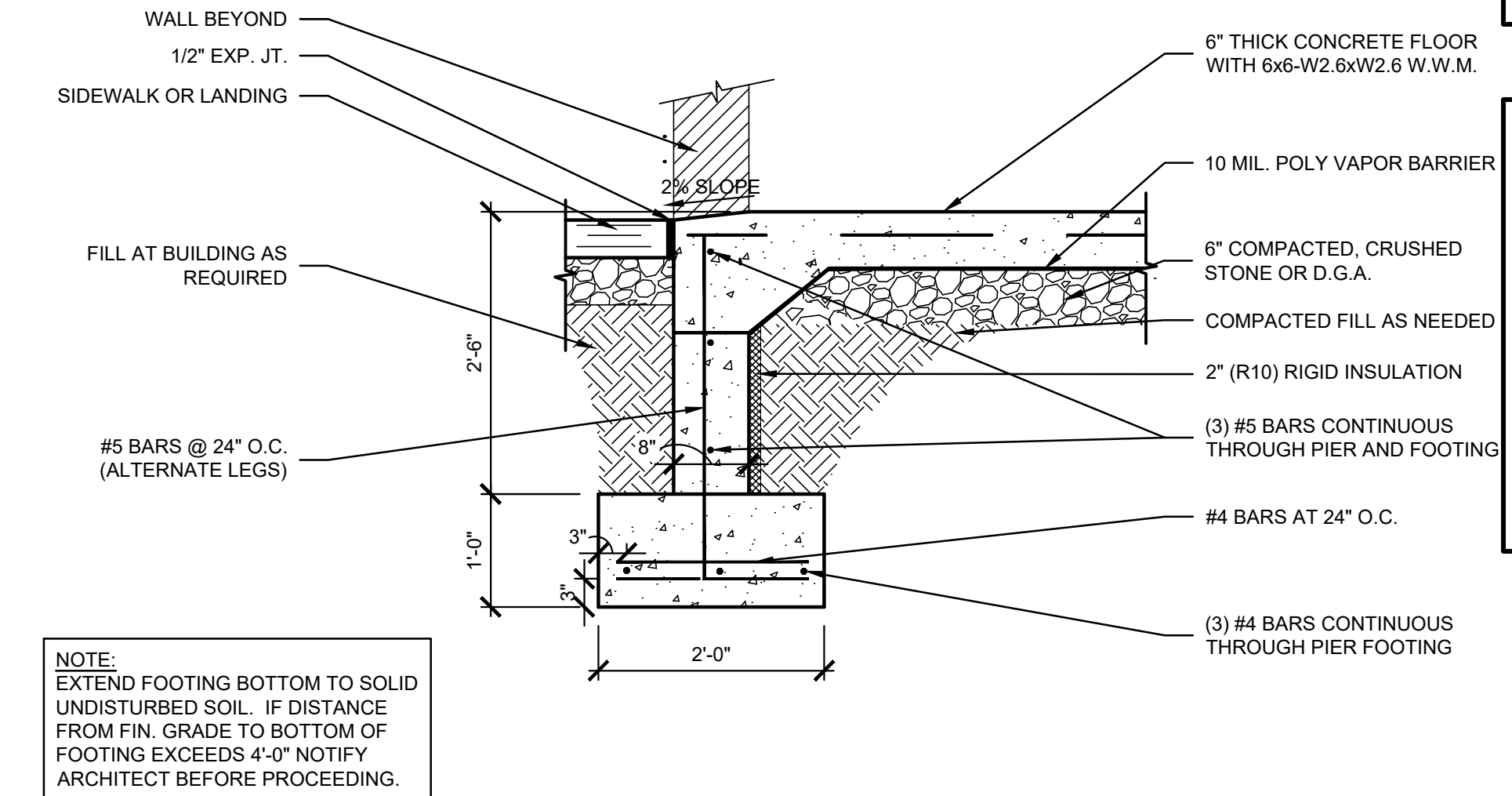
FOUNDATION PLAN  
**F1.01**



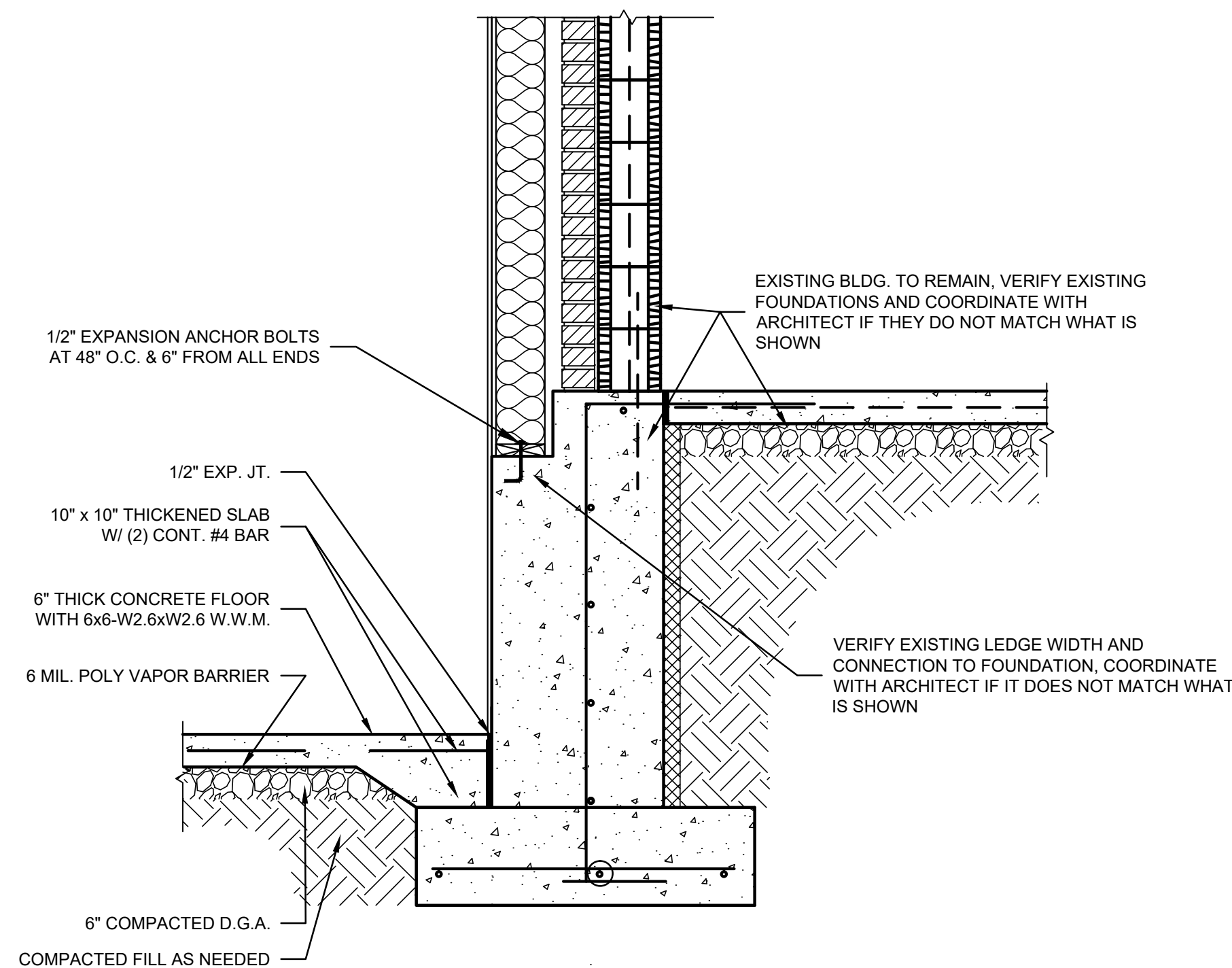
**01** FOOTING 8"CMU w/ BRICK VENEER @ GRADE  
SCALE: 3/4" = 1'-0"



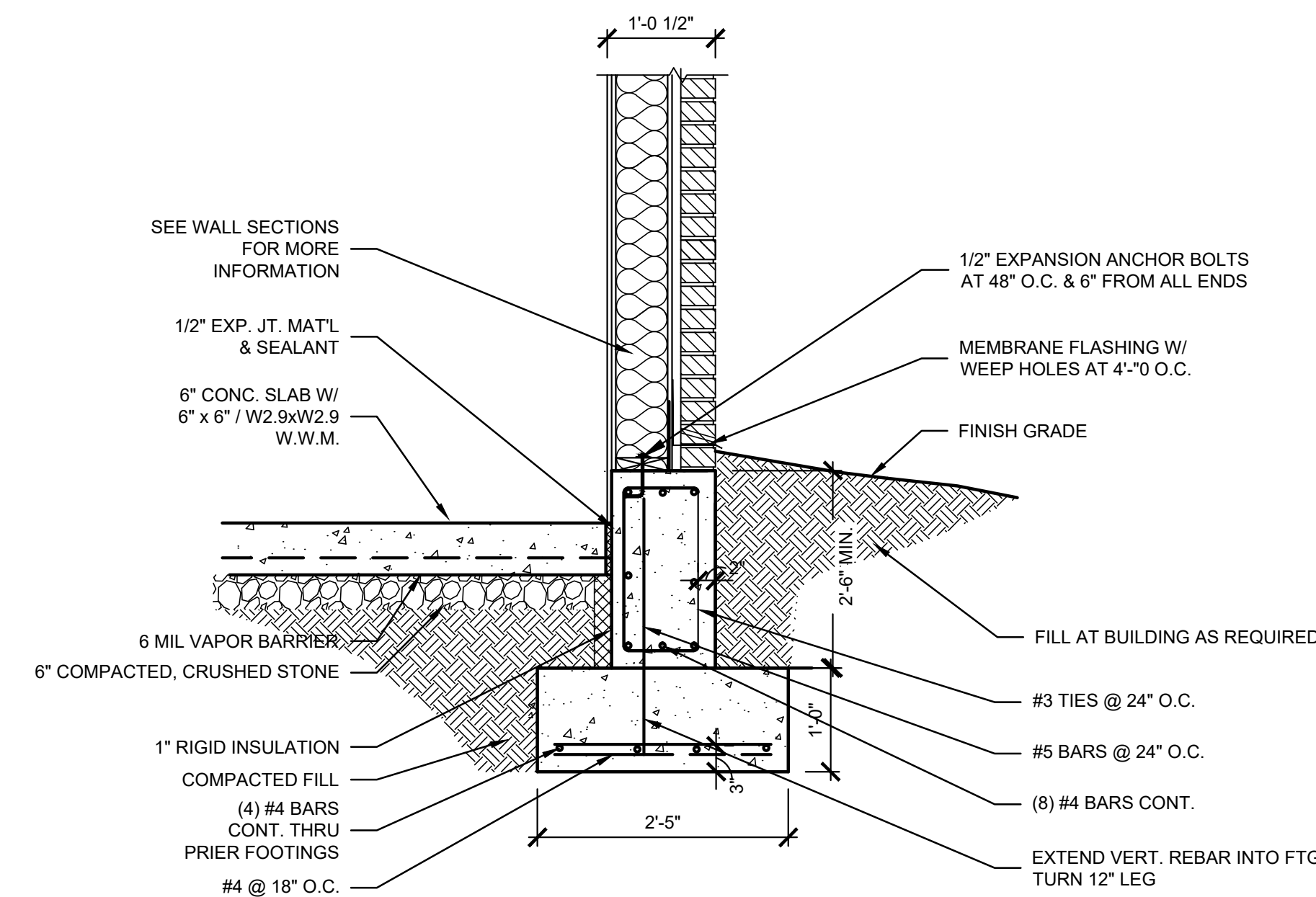
**02** FOOTING 8"CMU w/ BRICK VENEER @ SIDEWALK  
SCALE: 3/4" = 1'-0"



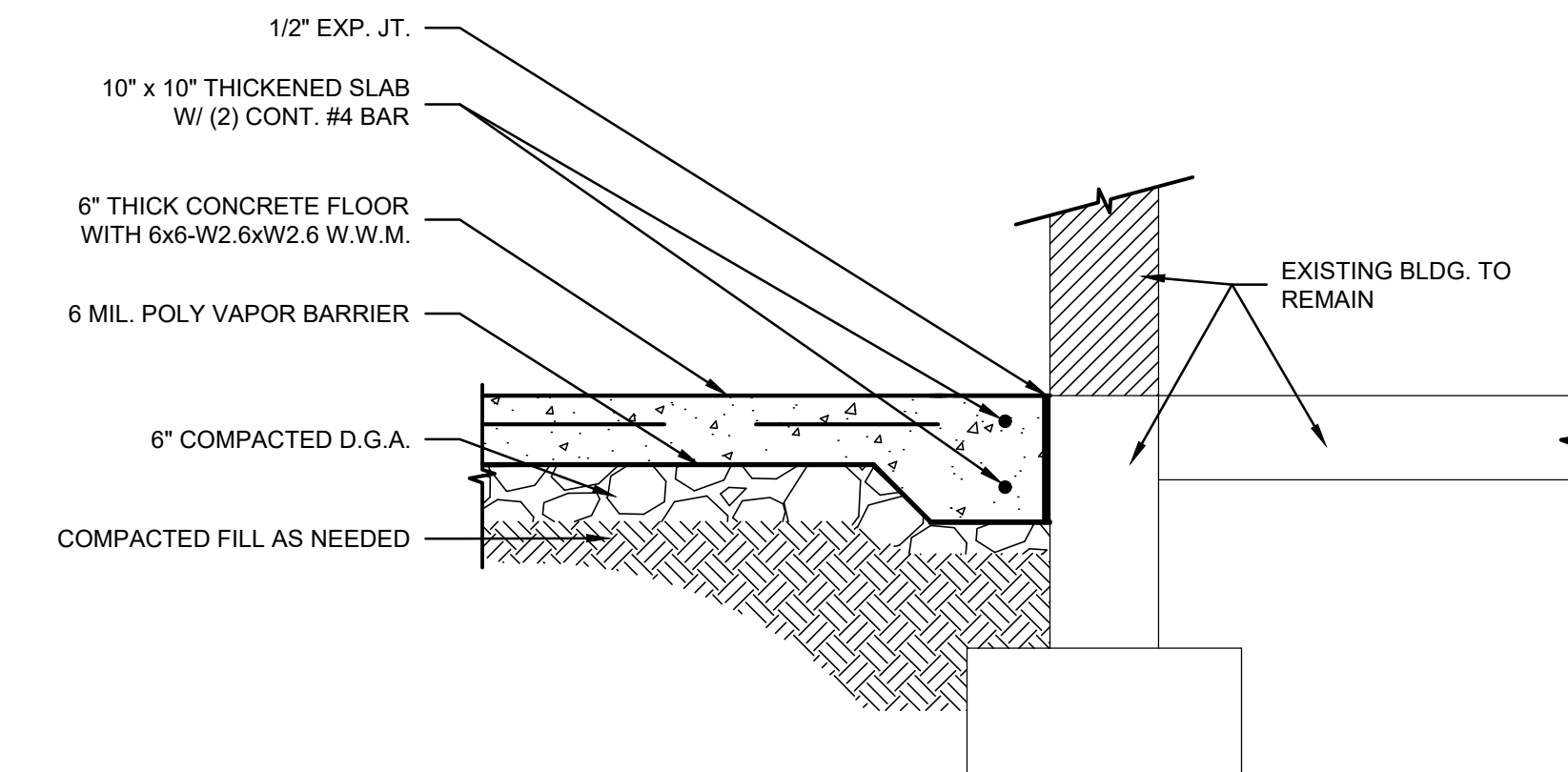
**03** FOUNDATION THROUGH DOOR  
SCALE: 3/4" = 1'-0"



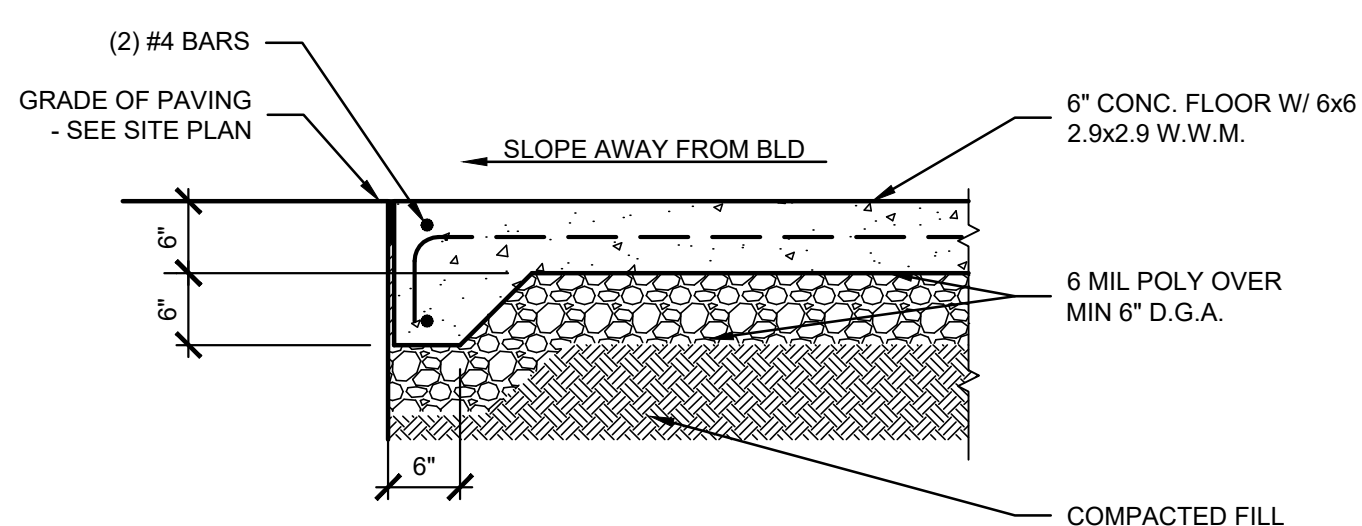
**04** FOUNDATION DETAIL AT EXISTING WALL  
SCALE: 3/4" = 1'-0"



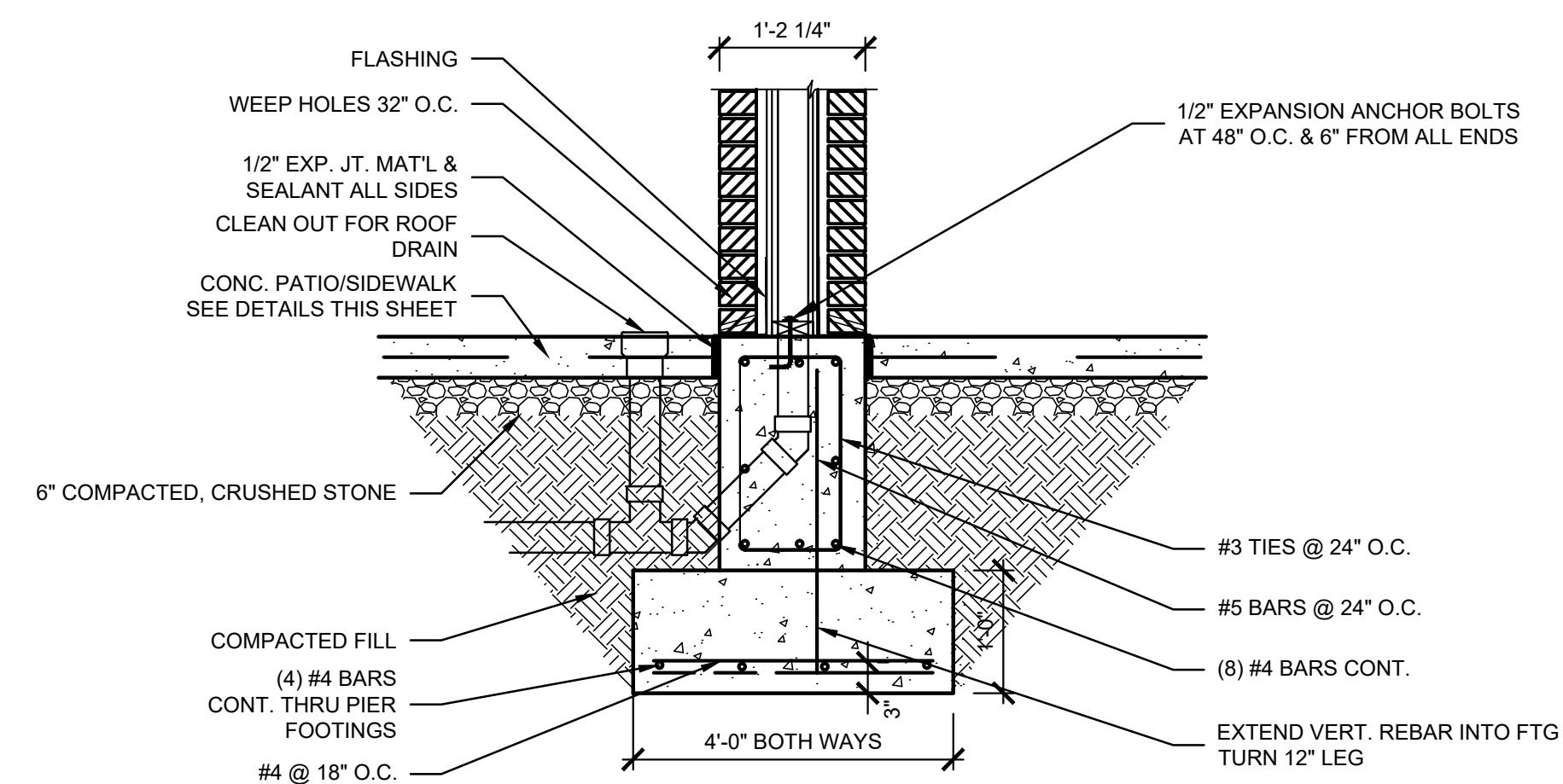
**05** FOUNDATION DETAIL AT RETAINING WALL  
SCALE: 3/4" = 1'-0"



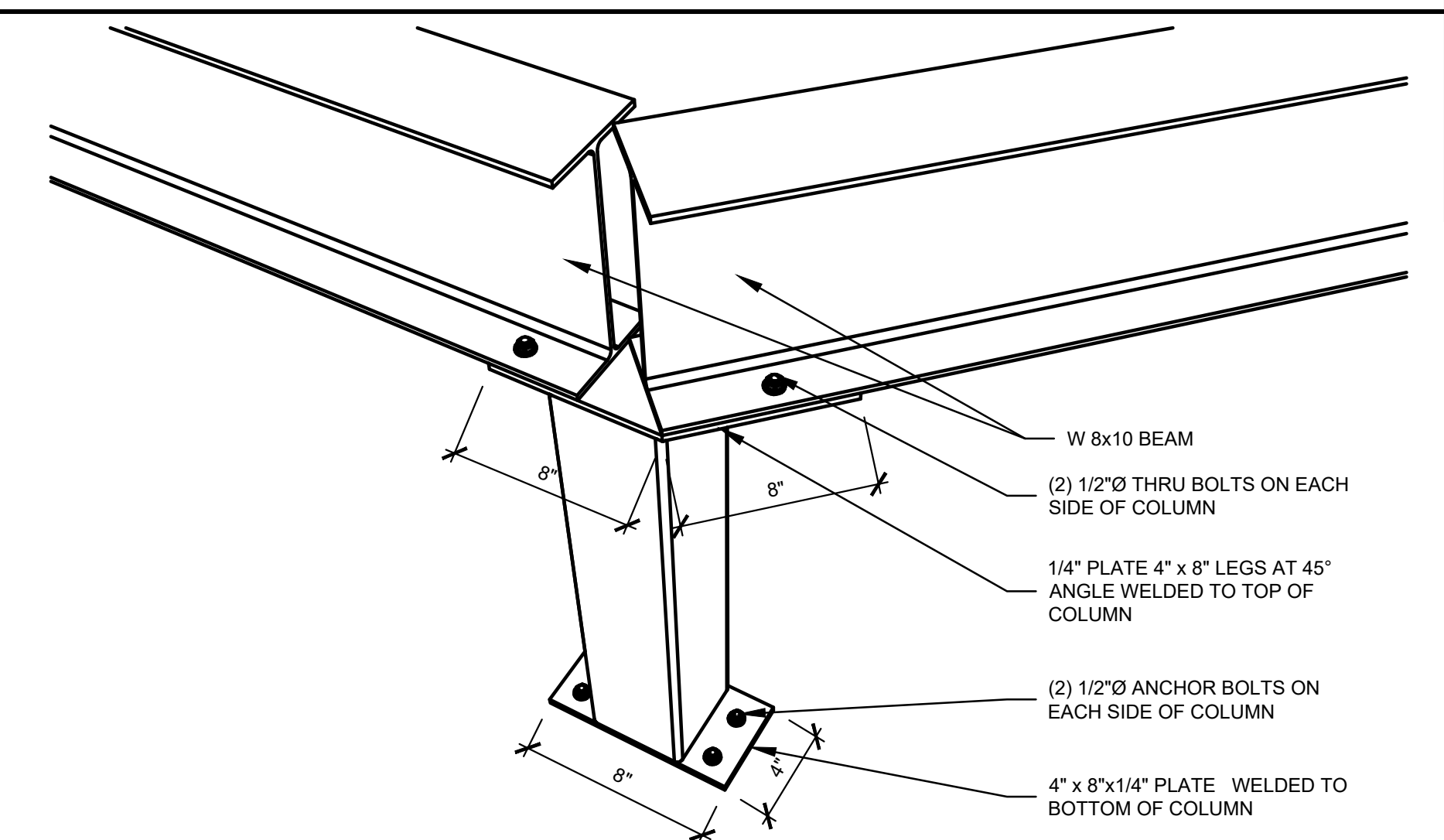
**06** SLAB AT EXISTING BUILDING  
SCALE: 3/4" = 1'-0"



**07** CONCRETE APRON DETAIL  
SCALE: 3/4" = 1'-0"



**08** FOUNDATION DETAIL AT ENTRY COLUMNS  
SCALE: 3/4" = 1'-0"



**09** STEEL BEAM AND COLUMN CONNECTION  
SCALE: NTS

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OFFICE ADDITION  
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FOUNDATION DETAILS

**F2.01**

### ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING MTL	CEILING HGT	REMARKS
101	COVERED ENTRY	CONCRETE	-	-	MTL VENTED SOFFIT	9'-8"	
102	VESTIBULE	LVP	VINYL	GYP-BD	CEILING #1	9'-8"	1
103	WAITING AREA	LVP	VINYL	GYP-BD	CEILING #1	9'-8"	1
104	FRONT OFFICE	LVP	VINYL	GYP-BD	CEILING #1	9'-8"	1
105	WORKROOM	LVP	VINYL	GYP-BD	CEILING #1	9'-8"	1
106	OFFICE	LVP	VINYL	GYP-BD	CEILING #1	9'-8"	1
107	CONFERENCE	LVP	VINYL	WALL #1	CEILING #1	9'-8"	1
108	TOILET	LVP	VINYL	GYP-BD	CEILING #2	8'-0"	1
109	SICK ROOM	LVP	VINYL	GYP-BD	CEILING #1	8'-0"	1
110	PRINCIPAL'S OFFICE	LVP	VINYL	GYP-BD	CEILING #1	9'-8"	1
111	HALLWAY	LVP	VINYL	GYP-BD	CEILING #1	9'-8"	1

#### ROOM FINISH REMARKS

- 1) COORDINATE FINISHES WITH OWNER

### FINISH SCHEDULE KEY

CARPET	GLUE DOWN PILE CARPET
LVP	LUXURY VINYL PLANK FLOORING - SEE SPECIFICATIONS
CERAMIC TILE	VERIFY SIZES AND STYLE WITH OWNER
CEILING #1	2'x2' LAY-IN RECESSED WHITE GRID WITH ACOUSTICAL TILE - SEE SPECIFICATIONS
CEILING #2	2'x4' LAY-IN FLUSH WHITE GRID WITH VINYL FACED TILE - SEE SPECIFICATIONS
WALL #1	CHAIR RAIL WITH GYP BD AND PAINT - VERIFY HEIGHT WITH OWNER

### DOOR SCHEDULE

NUMBER	SIZE	FIRE	MATERIAL	FRAME	HARDWARE	DETAILS	REMARKS
101	PR (3'-0"x7'-0")		ALUM/GLASS	ALUM	1	03,04/A6.01	1
102	PR (3'-0"x7'-0")		ALUM/GLASS	ALUM	1	01,02/A6.01	1
103	PR (3'-0"x7'-0")		ALUM/GLASS	ALUM	1	05,06/A6.01	1
104	PR (3'-0"x7'-0")		ALUM/GLASS	ALUM	1	03,04/A6.01	1
105	3'-0"x7'-0"		SC WOOD	HM	3	05,06/A6.01	
106	3'-0"x7'-0"		SC WOOD	HM	3	05,06/A6.01	
107	3'-0"x7'-0"		SC WOOD	HM	3	05,06/A6.01	
108	3'-0"x7'-0"		SC WOOD	HM	4	05,06/A6.01	
109	3'-0"x7'-0"		SC WOOD	HM	2	05,06/A6.01	
110	3'-0"x7'-0"		SC WOOD	HM	3	05,06/A6.01	
111	3'-0"x7'-0"		SC WOOD	HM	4	05,06/A6.01	

#### DOOR HARDWARE SCHEDULE

\*NRP = NON-REMOVABLE PIN

- 1) 2 PR. PIVOTS  
2 PANIC DEVICE W/ PUBLIC ACCESS FEATURE  
1 VERTICAL BAR  
2 CLOSERS  
1 WEATHERSTRIP SET  
1 THRESHOLD

- 2) 1-1/2 PR. HINGES  
1 PRIVACY SET  
1 WALL STOP

- 3) 1-1/2 PR. HINGES  
1 PASSAGE SET  
1 WALL STOP

- 4) 1-1/2 PR. HINGES  
1 ENTRANCE SET  
1 WALL STOP

#### DOOR SCHEDULE REMARKS

- 1) DOOR PART OF ALUMINUM STOREFRONT SYSTEM (SEE SPECIFICATIONS)

### WINDOW SCHEDULE

LETTER	SIZE	SILL HEIGHT	GLAZING	FRAME	DETAILS	REMARKS
A	5'-4" x 5'-0"	3'-0"	1" INSULATED CLEAR	ALUM	09,10,11/A6.01	
B	2'-4" x 4'-0"	3'-0"	1/4" CLEAR	ALUM	07,08/A6.01	
C	5'-4" x 4'-0"	3'-0"	1/4" CLEAR	ALUM	07,08/A6.01	
D	7'-10" x 4'-0"	3'-0"	1/4" CLEAR	ALUM	07,08/A6.01	1
E	EXIST	EXIST	EXIST	EXIST	EXIST	

#### WINDOW SCHEDULE REMARKS

- 1) CENTER, VERTICAL MULLION

### SHEET NOTES:

- INFILL WALL TO MATCH ADJACENT WALL THICKNESS AND FINISHES
- BUILT IN RECEPTION DESK WITH FILING CABINETS UNDERNEATH - COORDINATE FINISHES AND FINAL LAYOUT WITH OWNER
- BUILT IN HI / LOW WORKROOM CABINETS - COORDINATE FINISHES AND FINAL LAYOUT WITH OWNER
- BUILT IN WORKROOM WORKTABLE - COORDINATE FINISHES AND FINAL LAYOUT WITH OWNER
- BUILT IN 12" DEEP SHELVING, FULL HEIGHT - COORDINATE FINISHES AND FINAL LAYOUT WITH OWNER
- ROOF DRAIN RUNS THROUGH COLUMN AND CONNECTS TO EXISTING UNDERGROUND RUNOFF LINES
- NEW DOOR IN EXISTING WINDOW OPENING
- NEW BRICK TO CORNER
- BUILT IN SHELVING 24" DEEP BELOW COUNTER HEIGHT, 12" DEEP ABOVE COUNTER HEIGHT - COORDINATE FINISHES AND FINAL LAYOUT WITH OWNER

**NOTE:** ALL DIMENSIONS ARE TO FACE OF STUD

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### WALL LEGEND

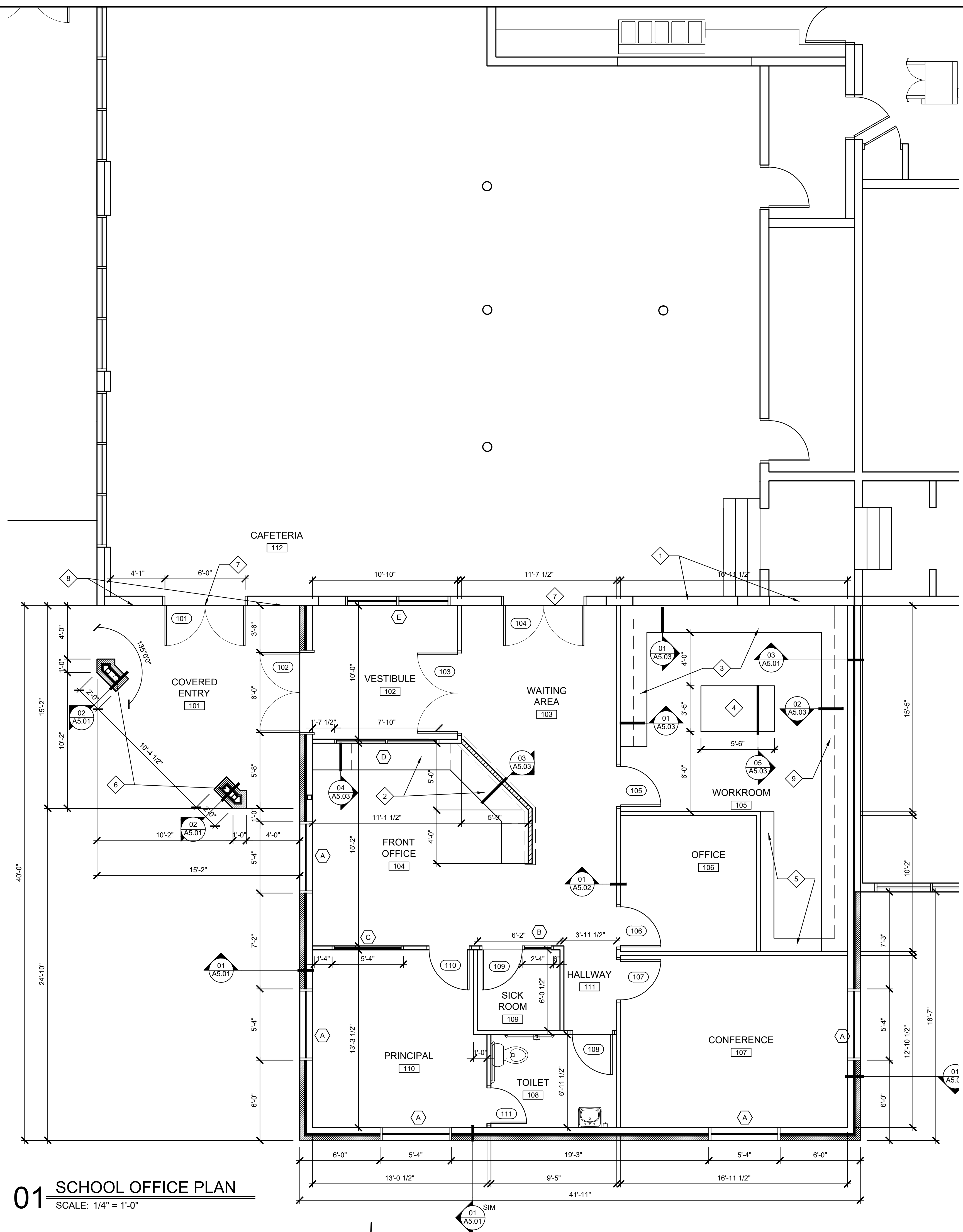
- 2x4 WOOD STUD WALL
- (2) LAYERS 5/8" GYPSUM WALLBOARD ON 2x6 WOOD STUD @ 16" o.c. WITH 1/2" EXTERIOR GRADE GYPSUM SHEATHING, 1" AIR GAP AND 4" CLAY FACING BRICK LAID IN MORTAR WITH 3/4" WIDE x 6 5/8" LONG 20 MSG CORRUGATED WALL TIES SPACED AT 16" o.c. EACH WAY - U302
- 2x4 WOOD STUD KNEE WALL

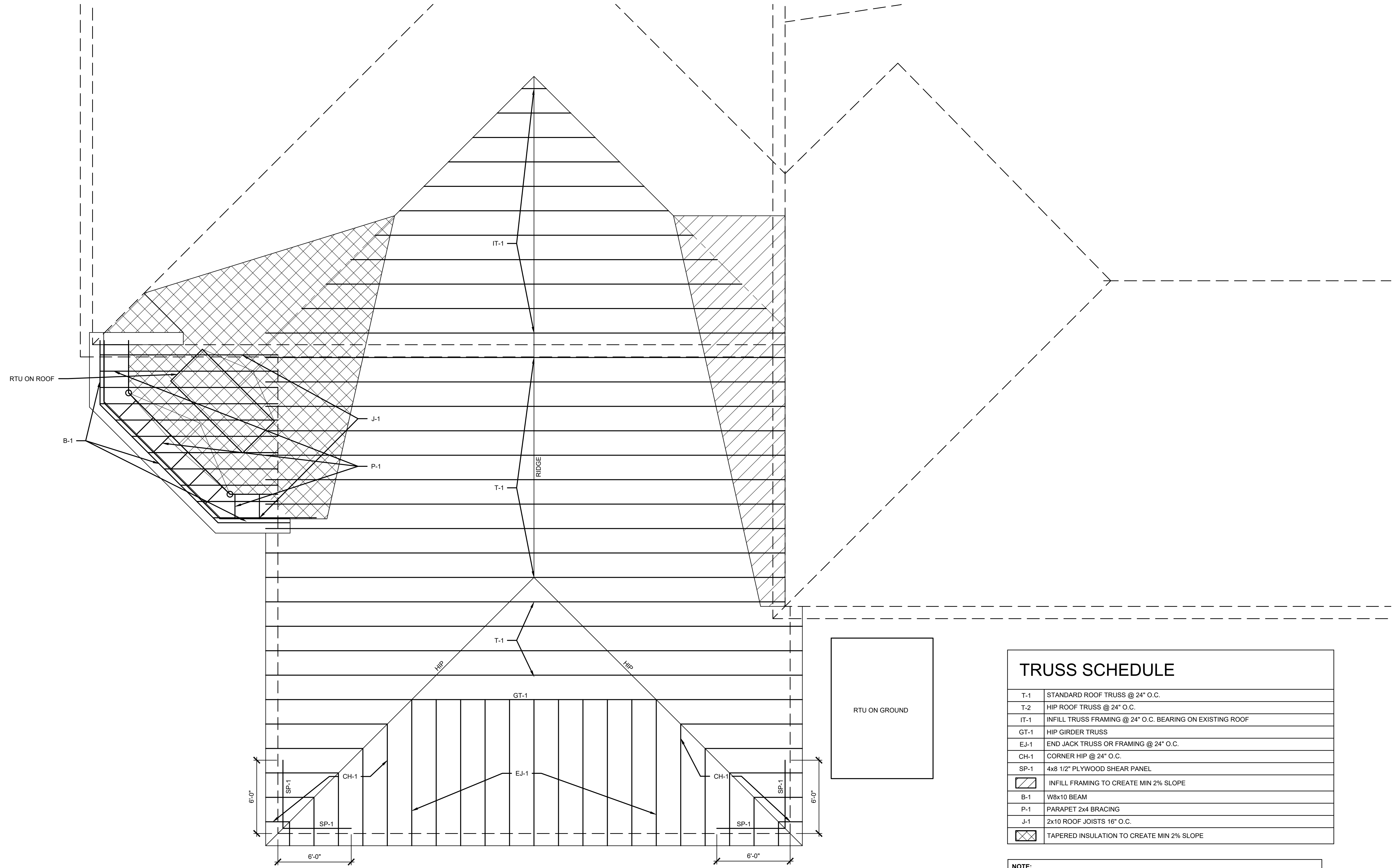
\*ALL MATERIALS ARE SIZES LISTED IN THIS LEGEND UNLESS OTHERWISE DIMENSIONED ON THIS PLAN OR SPECIFIED IN THE DETAILS AT A DIFFERENT SIZE

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SCHOOL OFFICE FLOOR PLAN

**A1.01**





### TRUSS SCHEDULE

T-1	STANDARD ROOF TRUSS @ 24" O.C.
T-2	HIP ROOF TRUSS @ 24" O.C.
IT-1	INFILL TRUSS FRAMING @ 24" O.C. BEARING ON EXISTING ROOF
GT-1	HIP GIRDER TRUSS
EJ-1	END JACK TRUSS OR FRAMING @ 24" O.C.
CH-1	CORNER HIP @ 24" O.C.
SP-1	4x8 1/2" PLYWOOD SHEAR PANEL
	INFILL FRAMING TO CREATE MIN 2% SLOPE
B-1	W8x10 BEAM
P-1	PARAPET 2x4 BRACING
J-1	2x10 ROOF JOISTS 16" O.C.
	TAPERED INSULATION TO CREATE MIN 2% SLOPE

**NOTE:**  
ALL TRUSSES SHALL BE DESIGNED BY A KENTUCKY LICENSED STRUCTURAL ENGINEER. TRUSS DESIGN SHALL MEET ALL REQUIREMENTS OF THE KENTUCKY BUILDING CODE. SHOP DRAWINGS SHALL BE STAMPED BY A KENTUCKY LICENSED STRUCTURAL ENGINEER.

**NOTE:** ALL DIMENSIONS ARE TO FACE OF STUD  
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## 01 OFFICE ADDITION ROOF PLAN

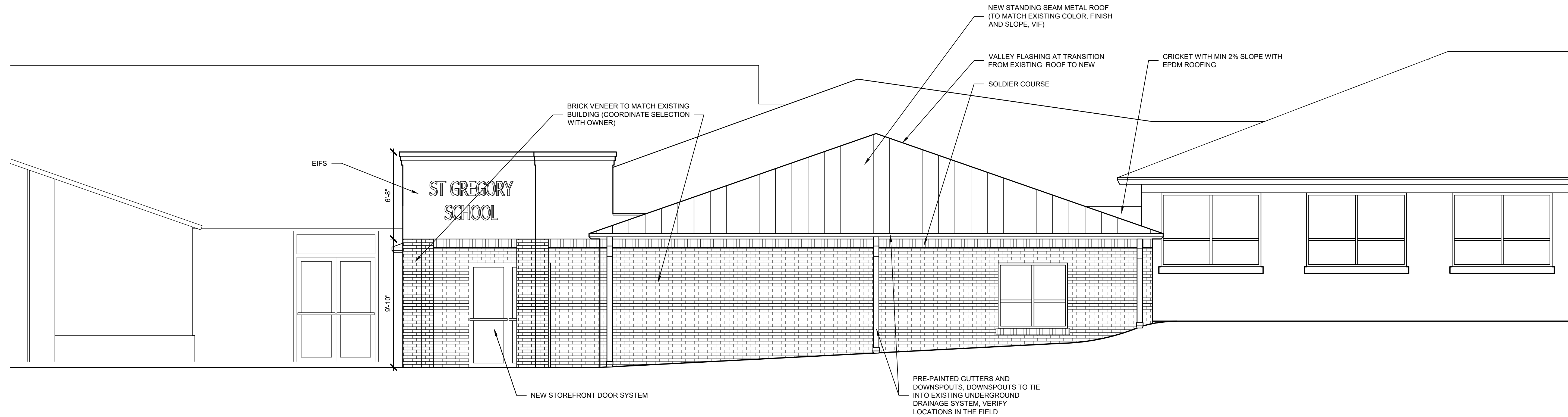
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PROJECT: ST GREGORY SCHOOL - FILE: A1.02 Roof Plan.dwg - DATE: Jul 10, 2024 12:51 PM - BY: NICK MCCART

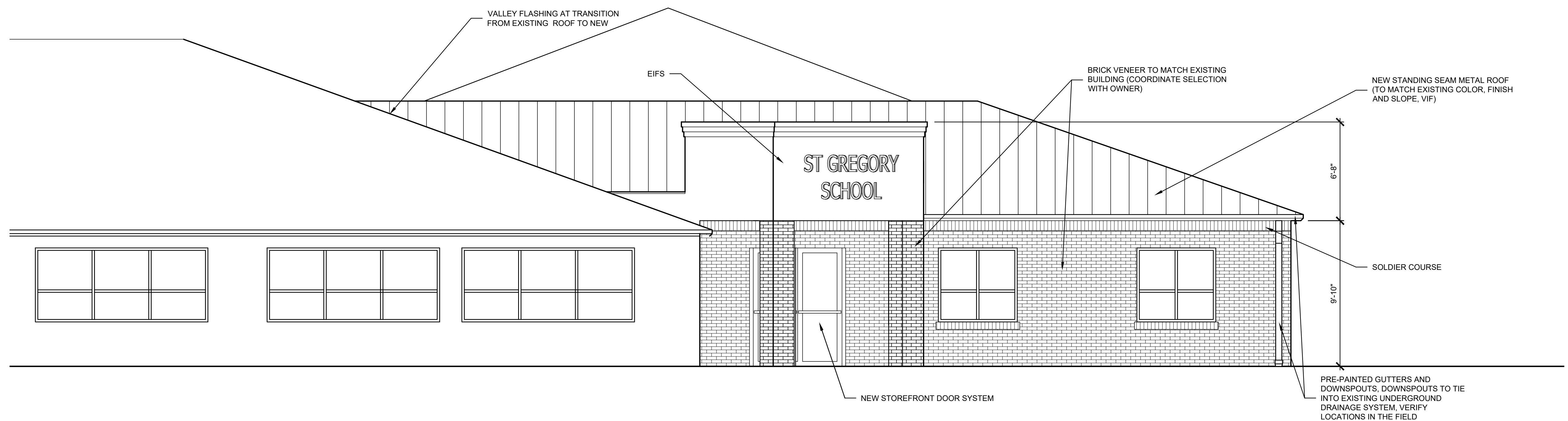


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**01** SCHOOL OFFICE ELEVATION  
SCALE: 1/4" = 1'-0"



**02** SCHOOL OFFICE ELEVATION  
SCALE: 1/4" = 1'-0"



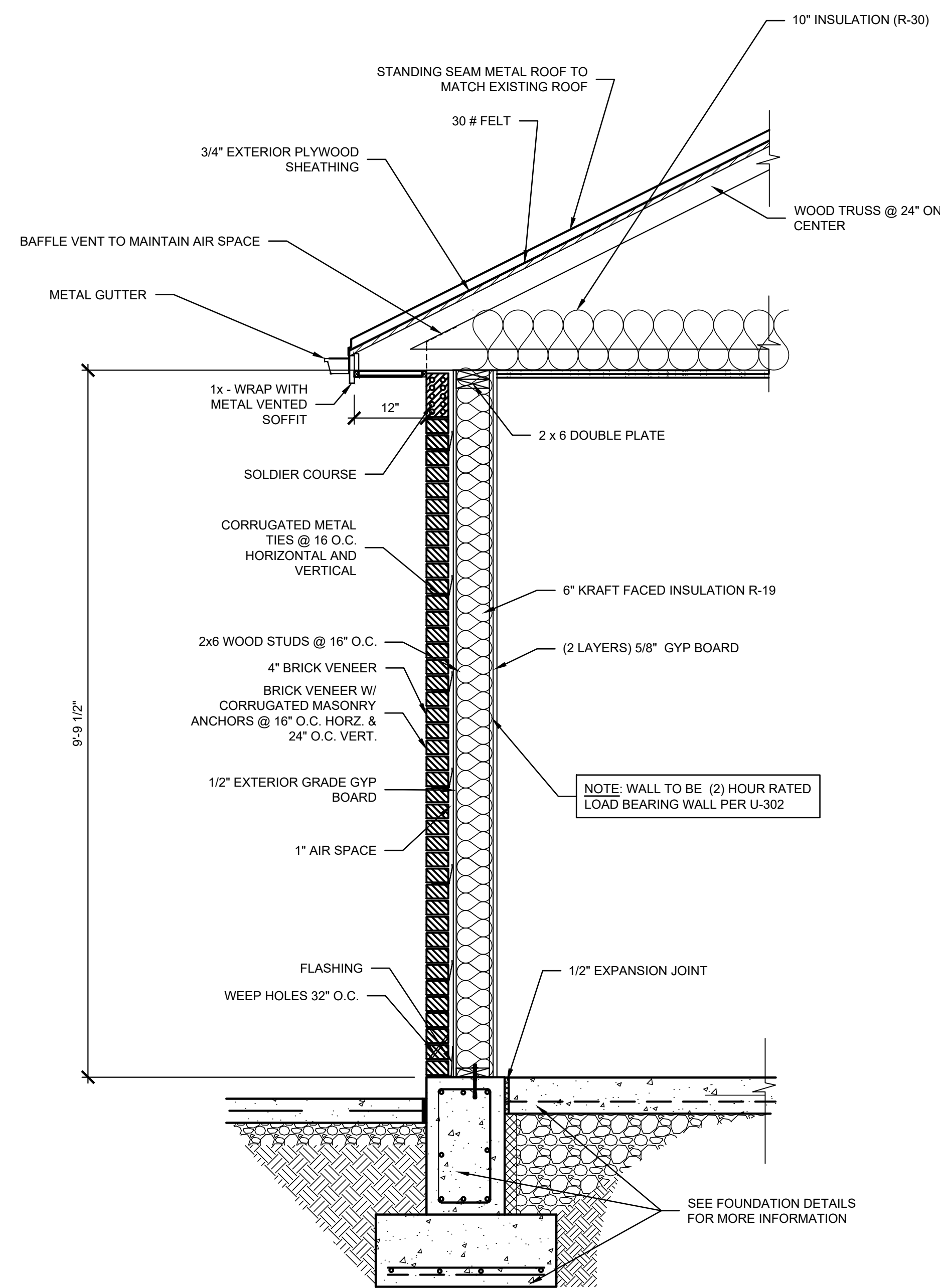
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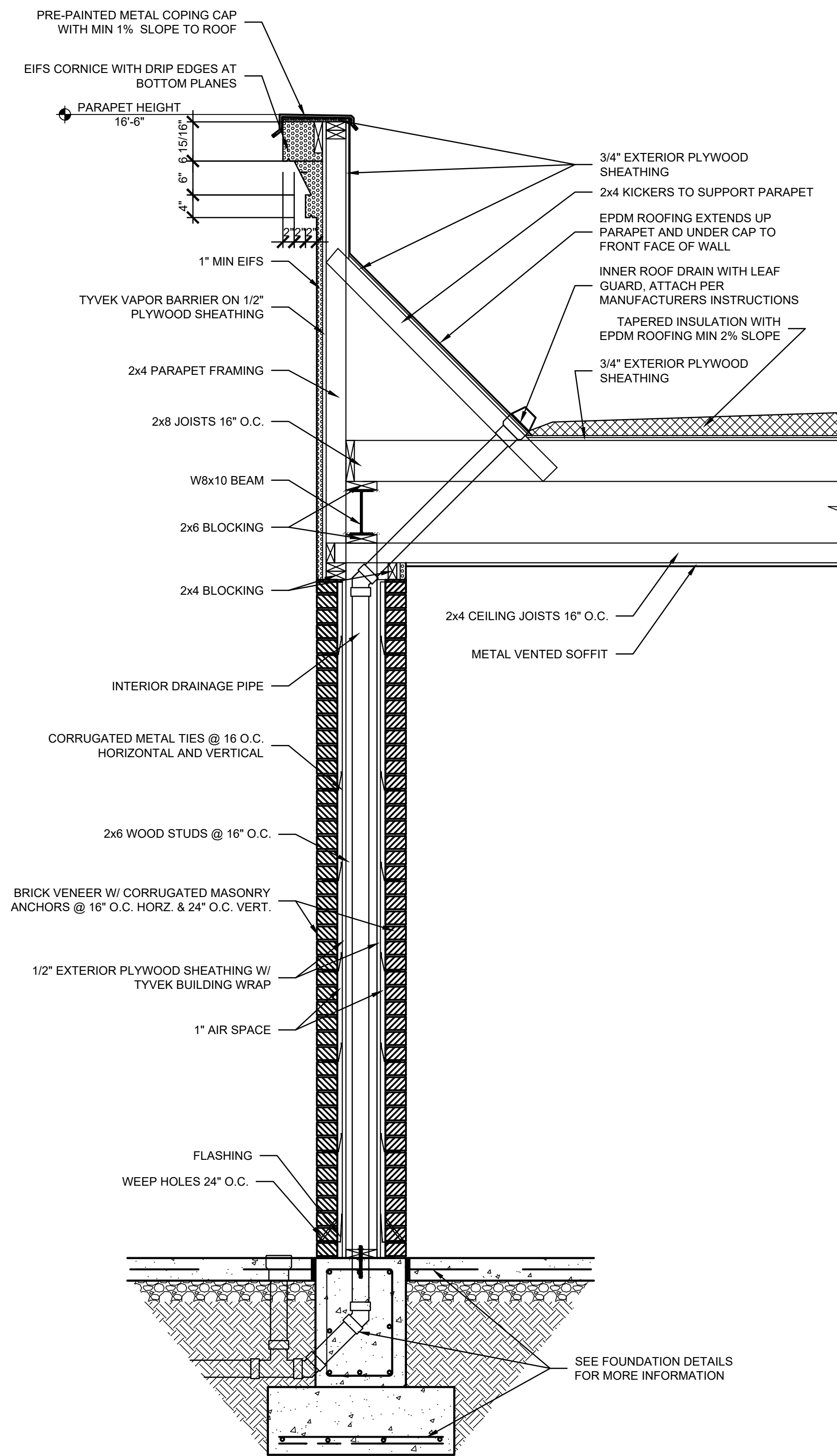




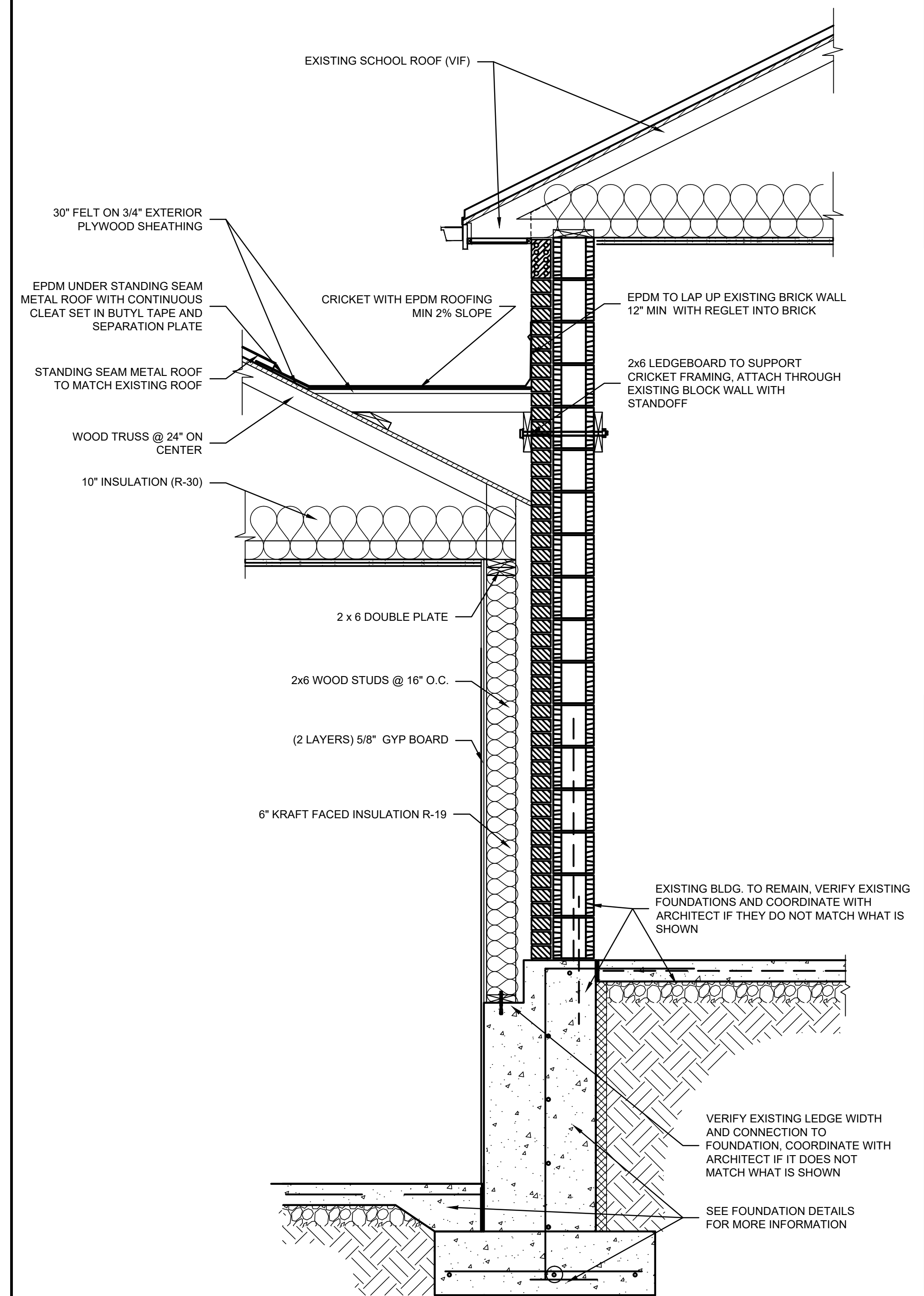




**01** TYPICAL EXTERIOR WALL SECTION  
SCALE: 3/4" = 1'-0"



**02** ENTRY COLUMN SECTION  
SCALE: 3/4" = 1'-0"



**03** EXISTING CLASSROOM CONNECTION SECTION  
SCALE: 3/4" = 1'-0"

PROJECT: ST GREGORY SCHOOL - FILE: A5.01 Wall Sections and Details.dwg - DATE: Jul 10, 2024 12:52PM - BY: NICK MCCART

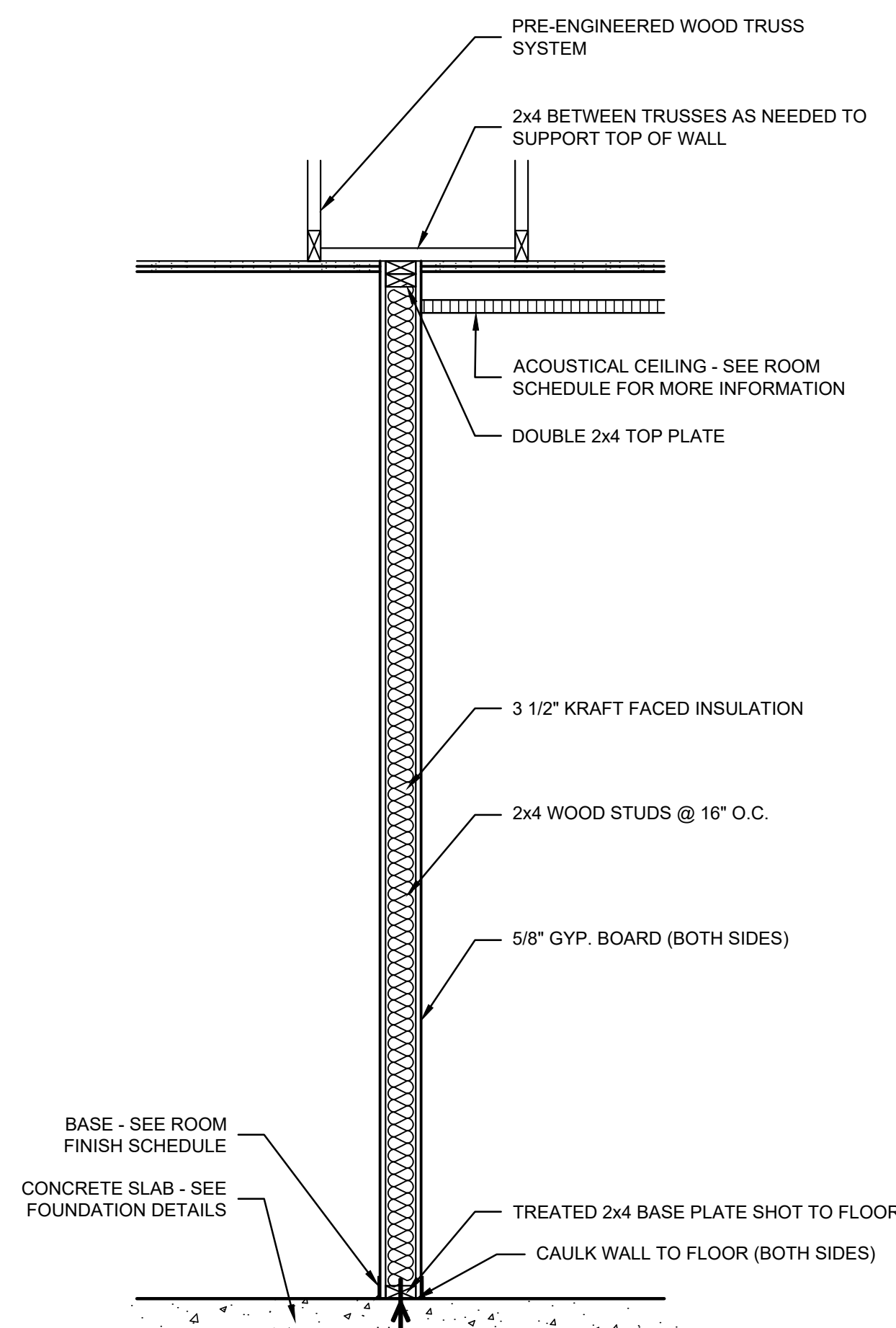


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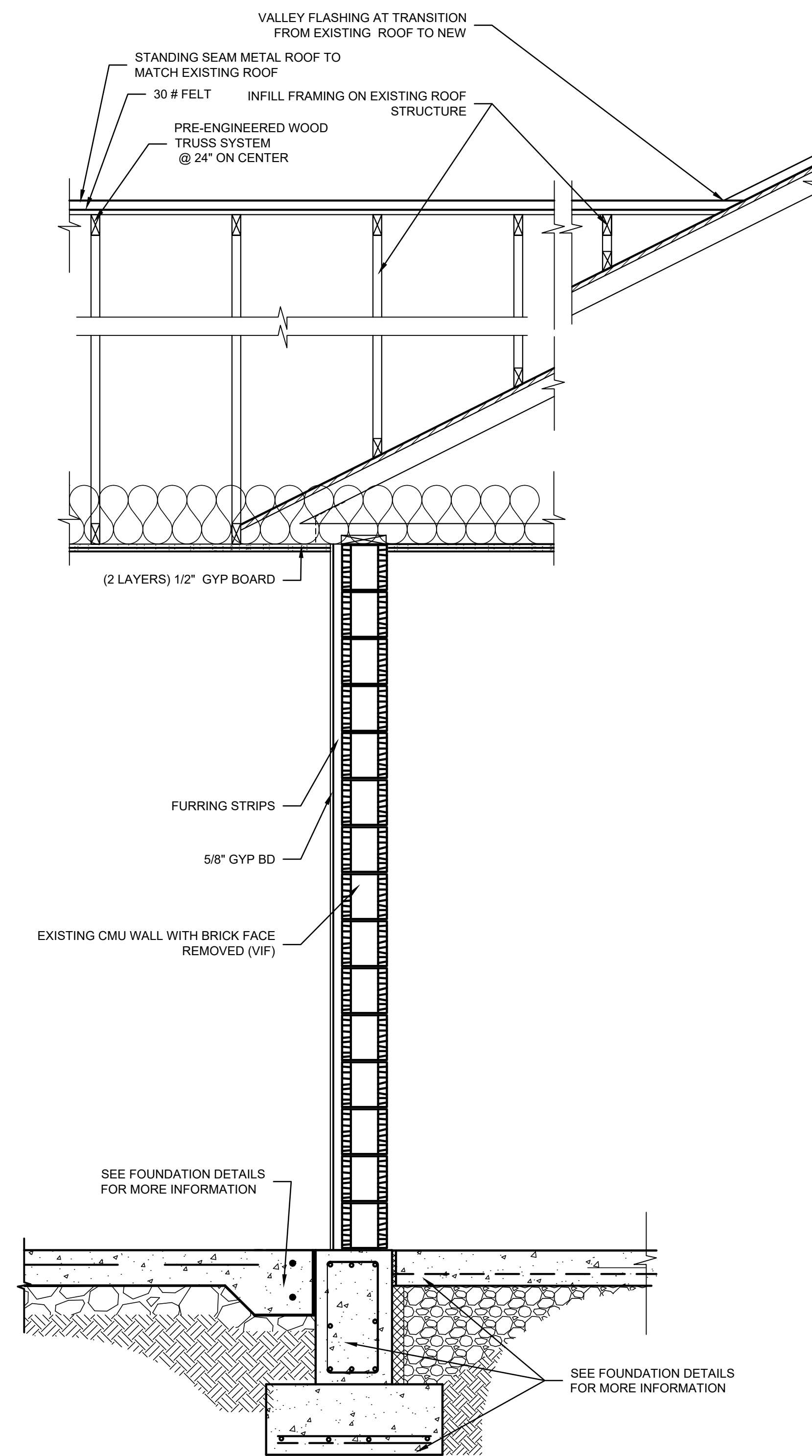
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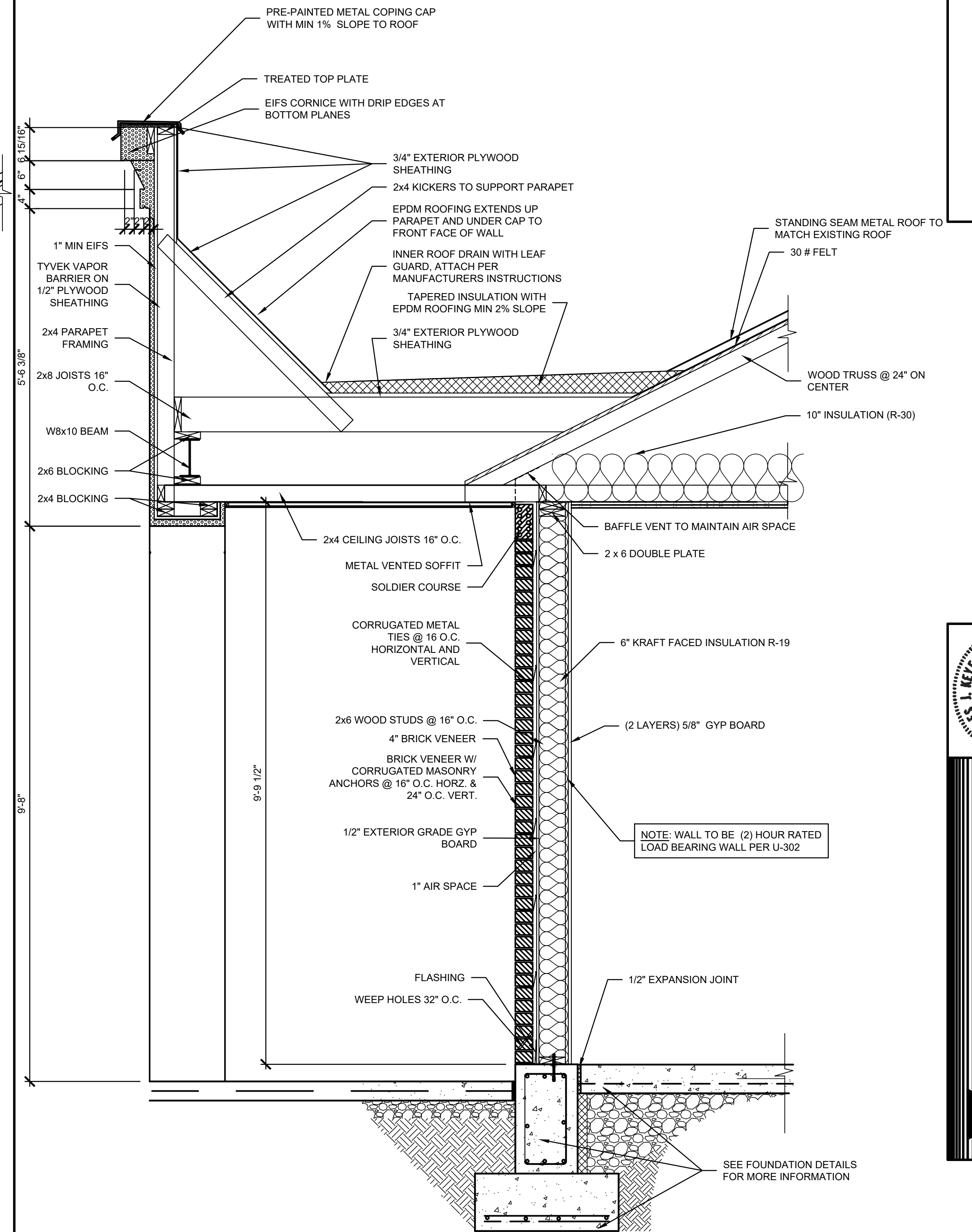
WALL SECTIONS AND DETAILS  
**A5.01**



**01** TYPICAL INTERIOR WALL SECTION  
SCALE: 3/4" = 1'-0"



**02** CAFETERIA CONNECTION WALL SECTION  
SCALE: 3/4" = 1'-0"



**03** ENTRY FEATURE SECTION  
SCALE: 3/4" = 1'-0"

PROJECT: ST GREGORY SCHOOL - FILE: A5.02 Wall Sections and Details.dwg - DATE: Jul 10, 2024 12:52PM - BY: NICK MCCART

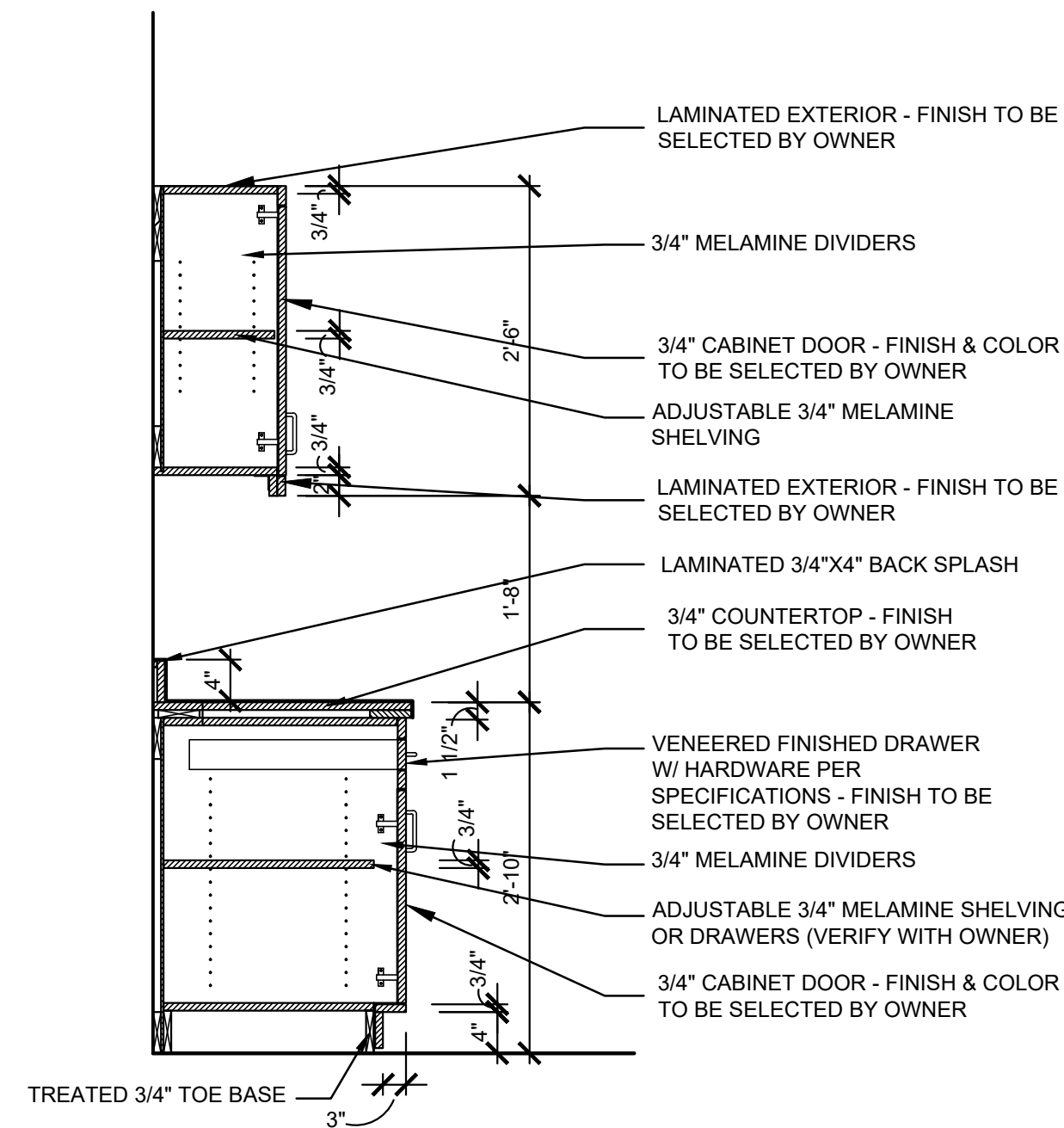


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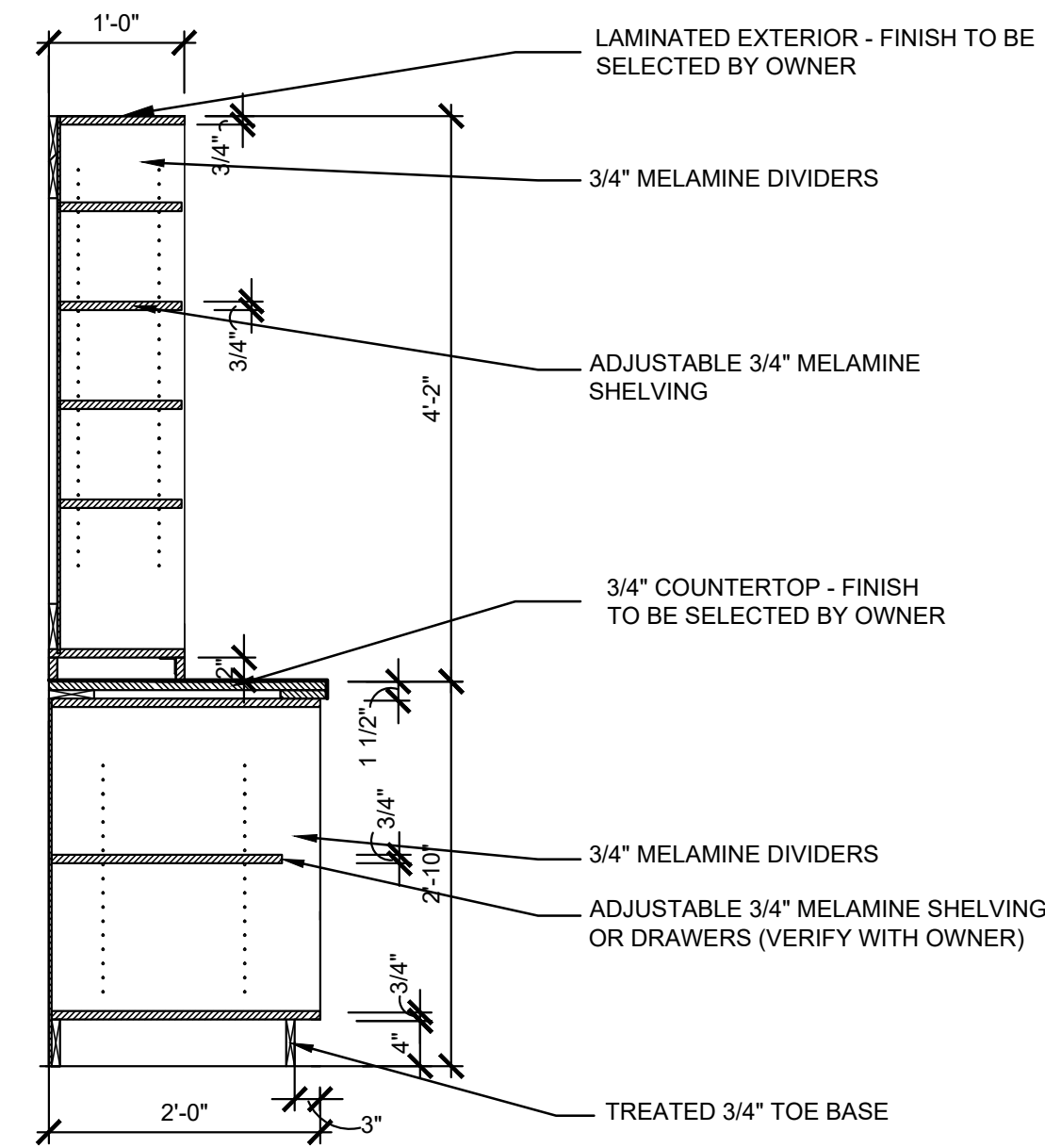
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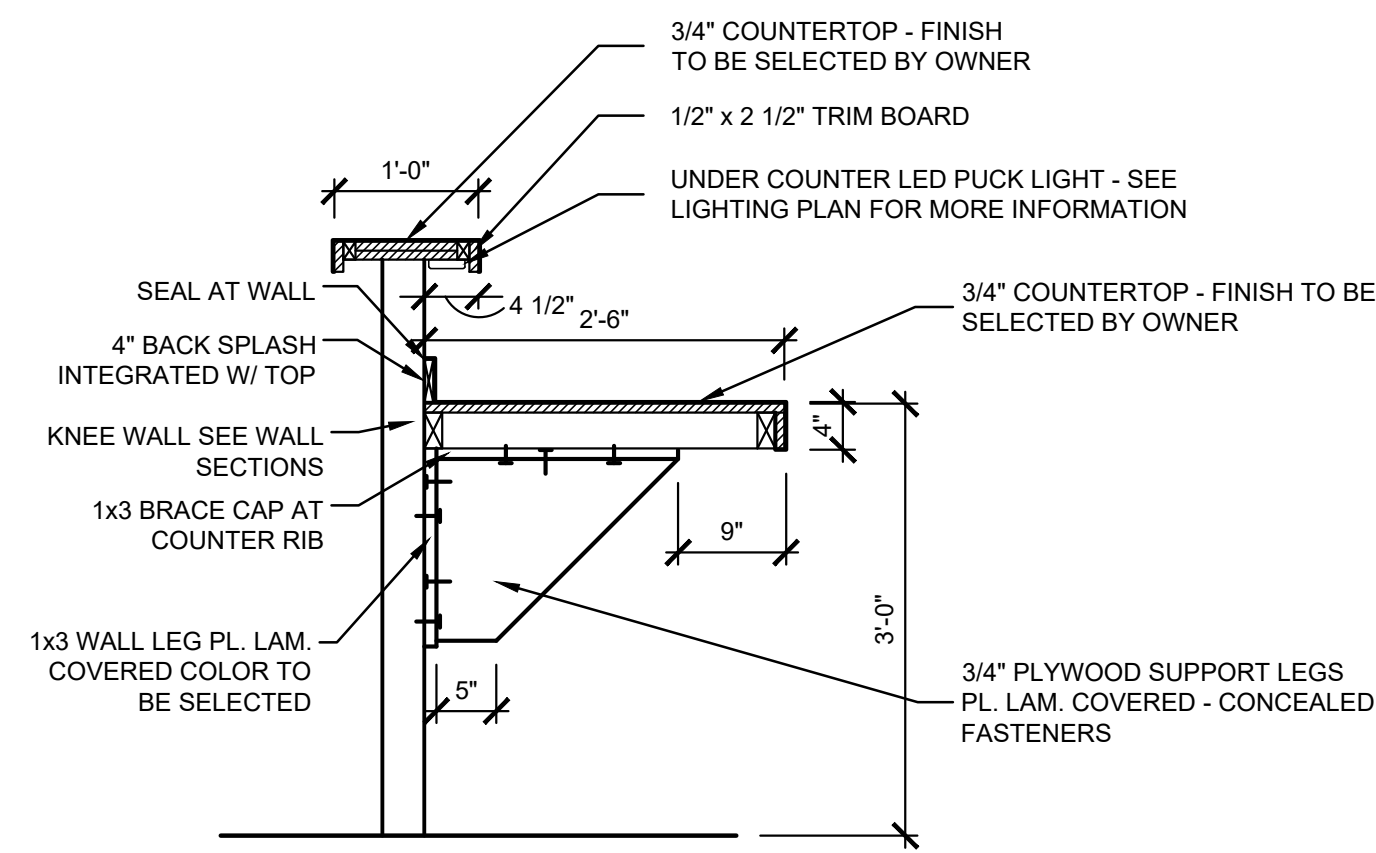
WALL SECTIONS AND DETAILS  
**A5.02**



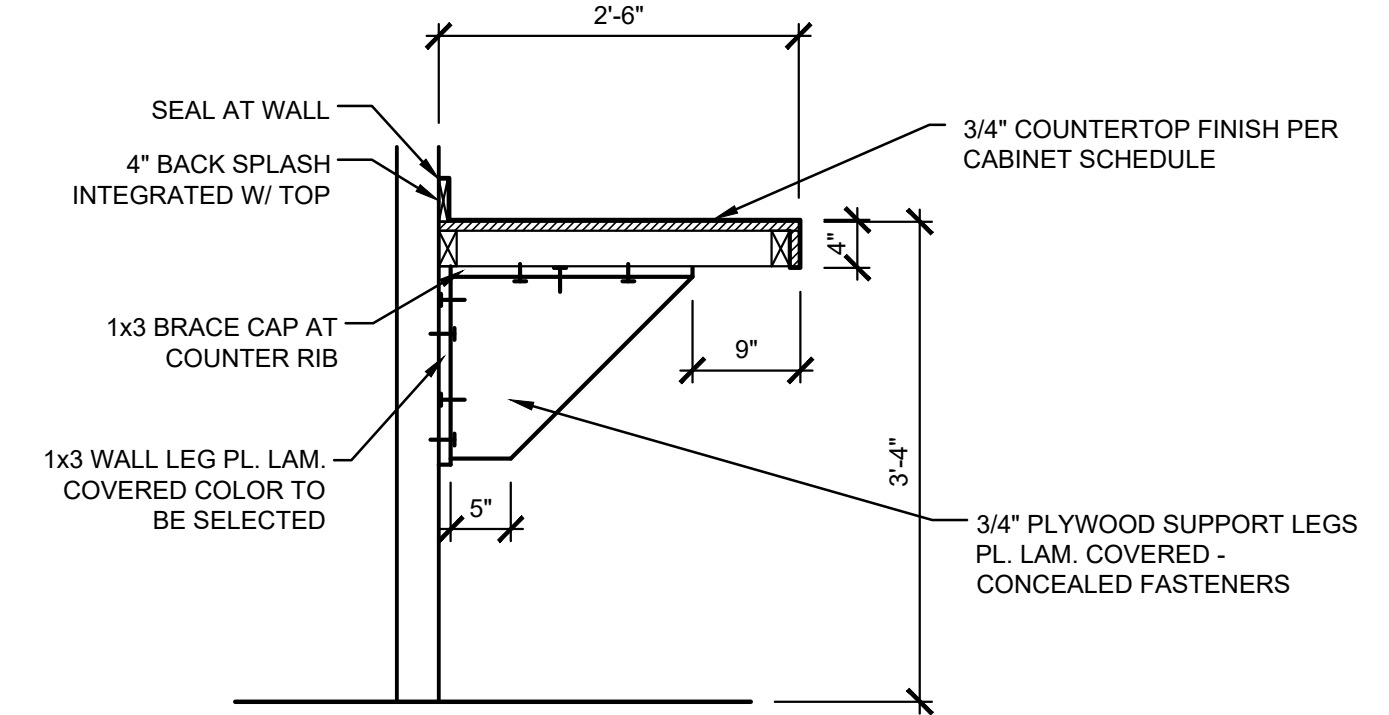
**01 UPPER & LOWER CABINET DETAILS**  
SCALE: 3/4" = 1'-0"



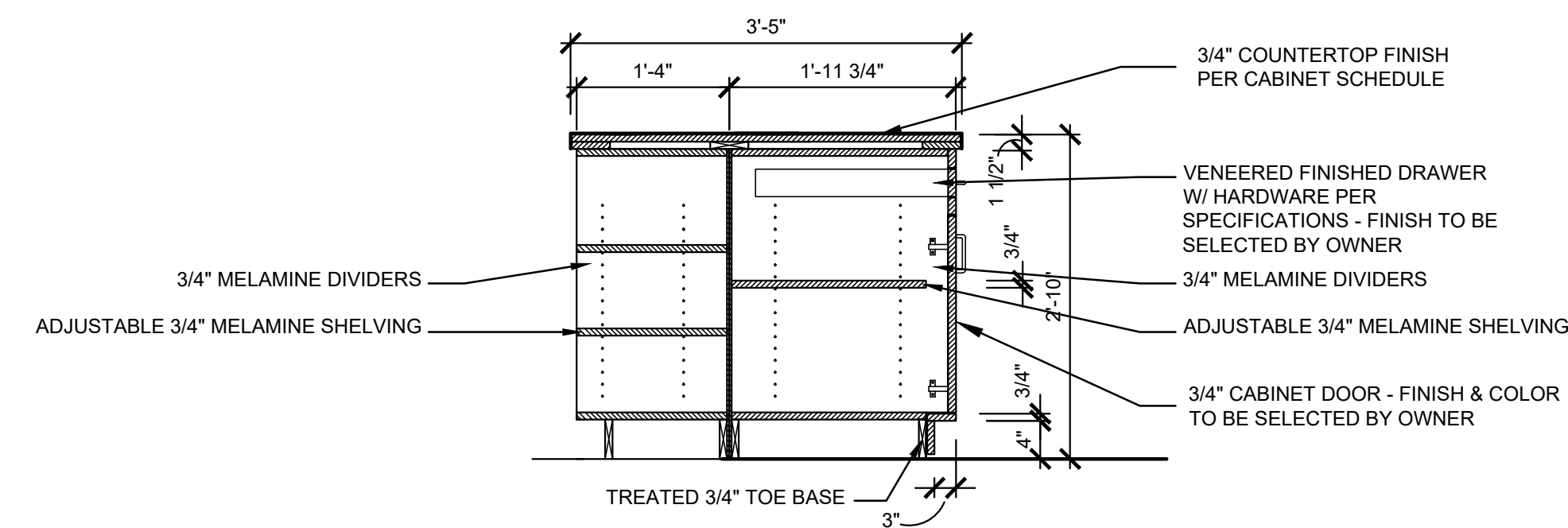
**02 UPPER & LOWER SHELF DETAILS**  
SCALE: 3/4" = 1'-0"



**03 GREETING DESK DETAIL**  
SCALE: 3/4" = 1'-0"



**04 COUNTER TOP DETAIL**  
SCALE: 3/4" = 1'-0"

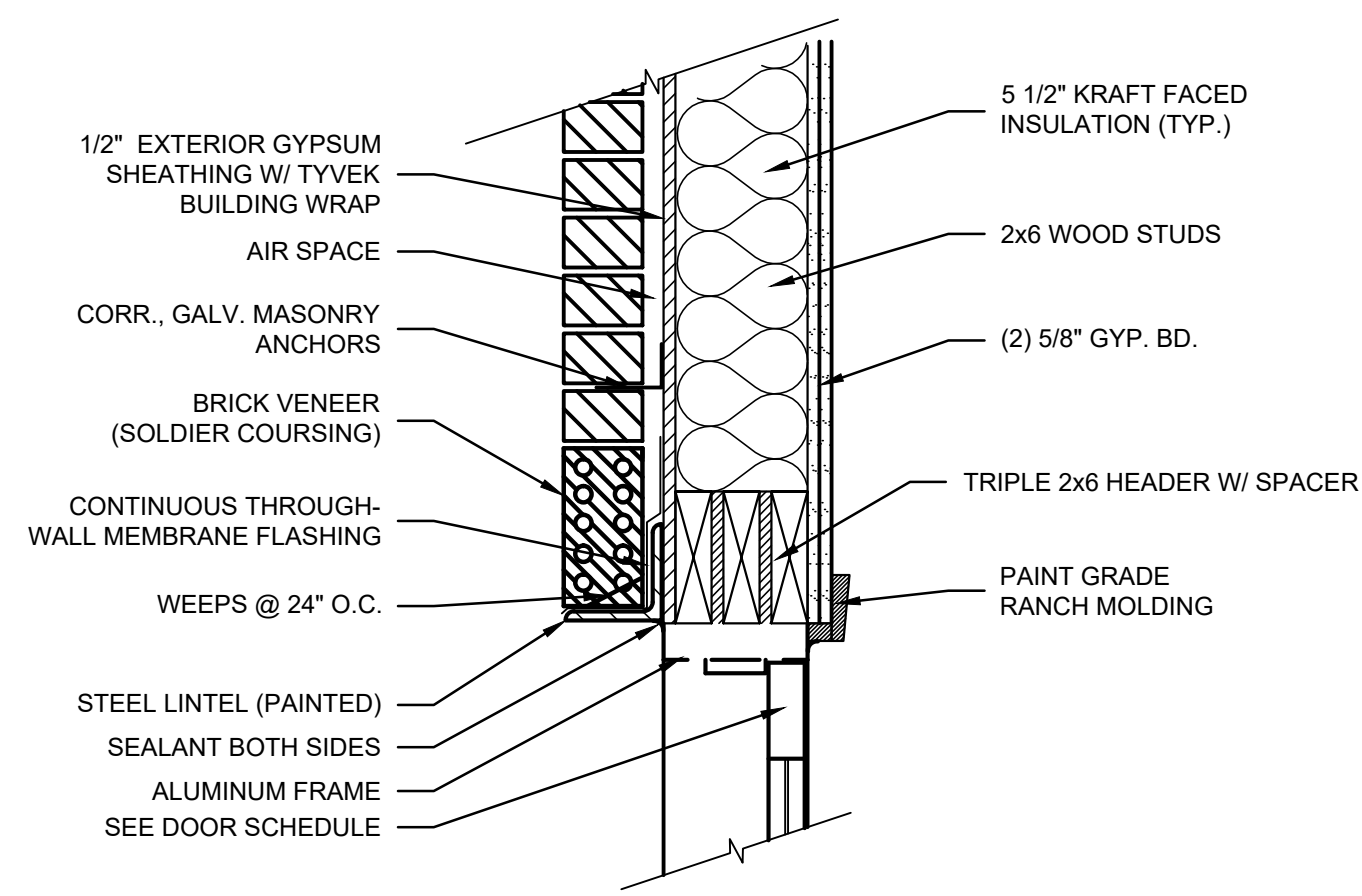


**05 WORK STATION CABINET DETAILS**  
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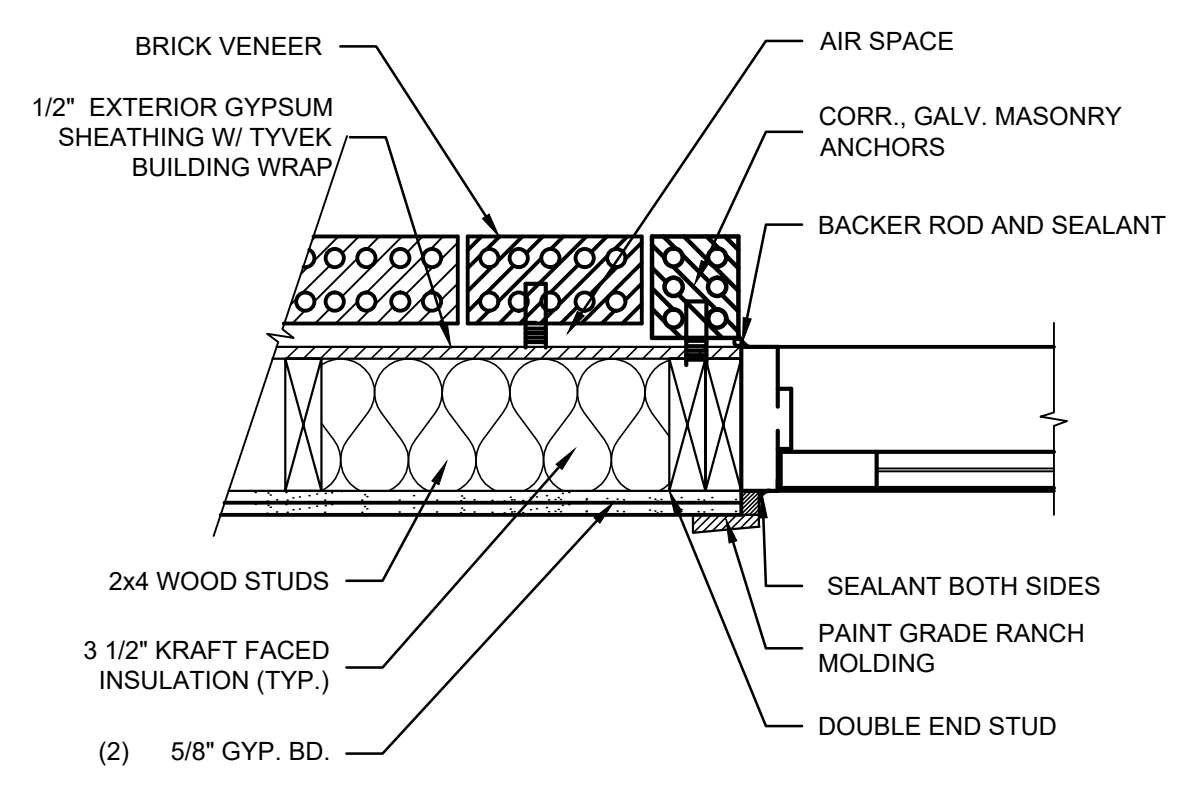


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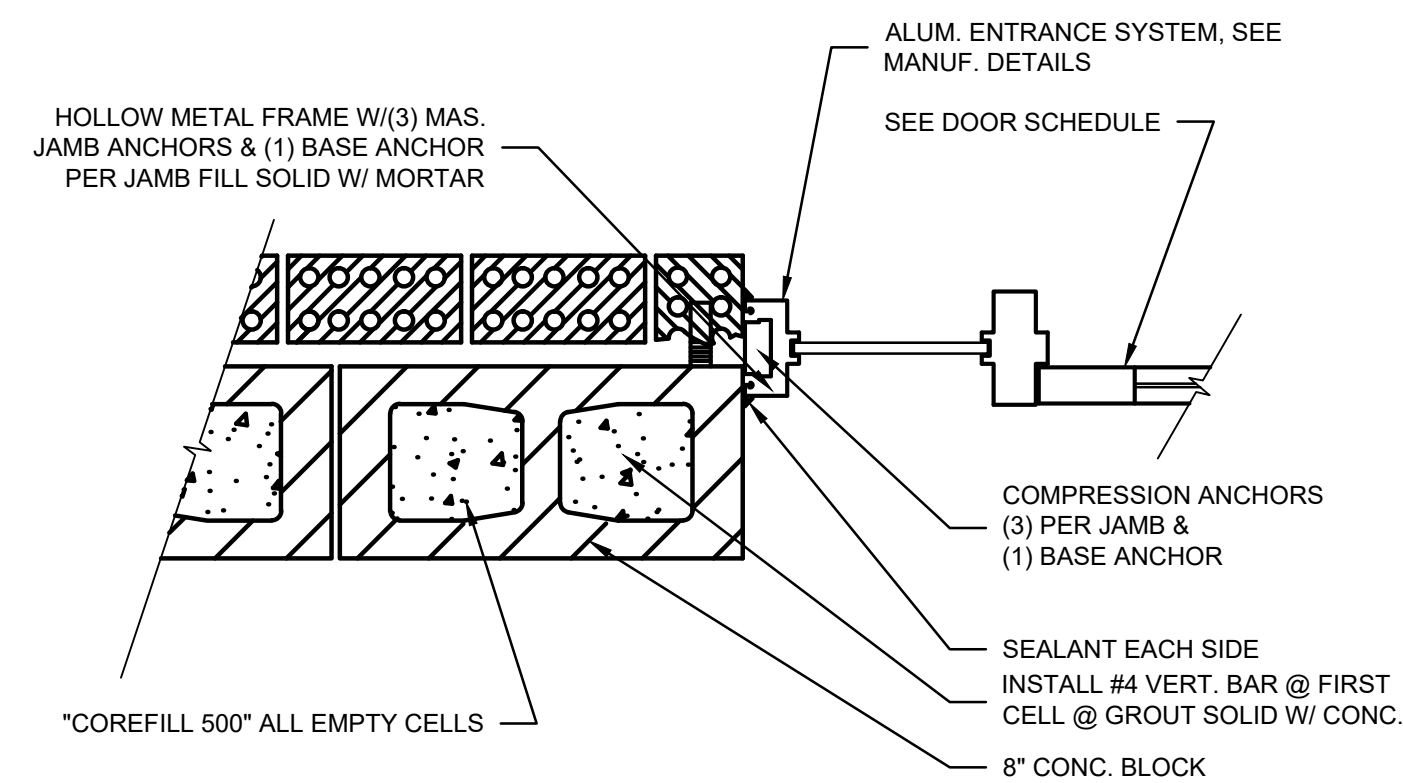
**ST GREGORY SCHOOL**  
OFFICE ADDITION  
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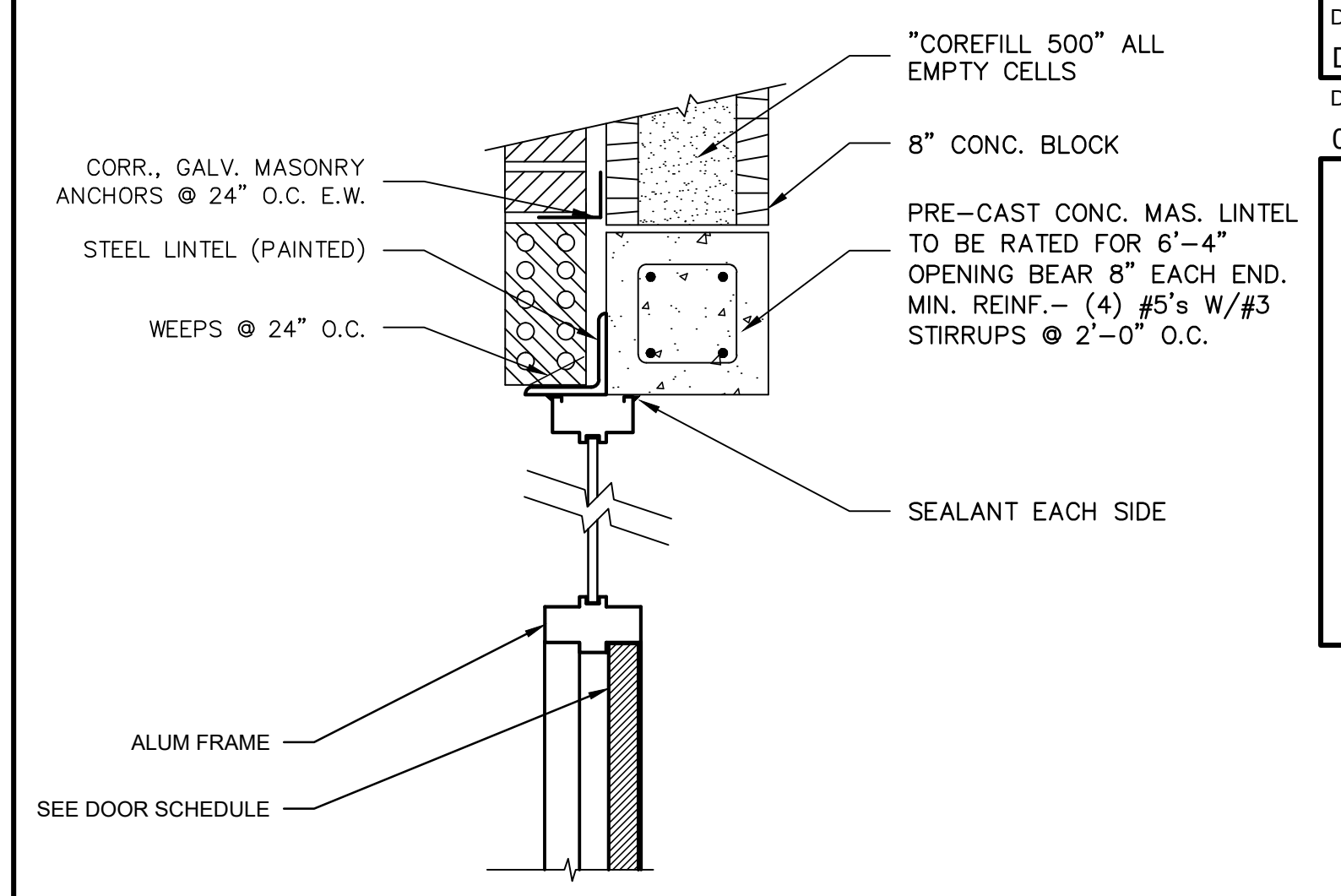
**01** EXT. ALUMINUM DOOR HEAD  
SCALE: 1-1/2" = 1'-0"



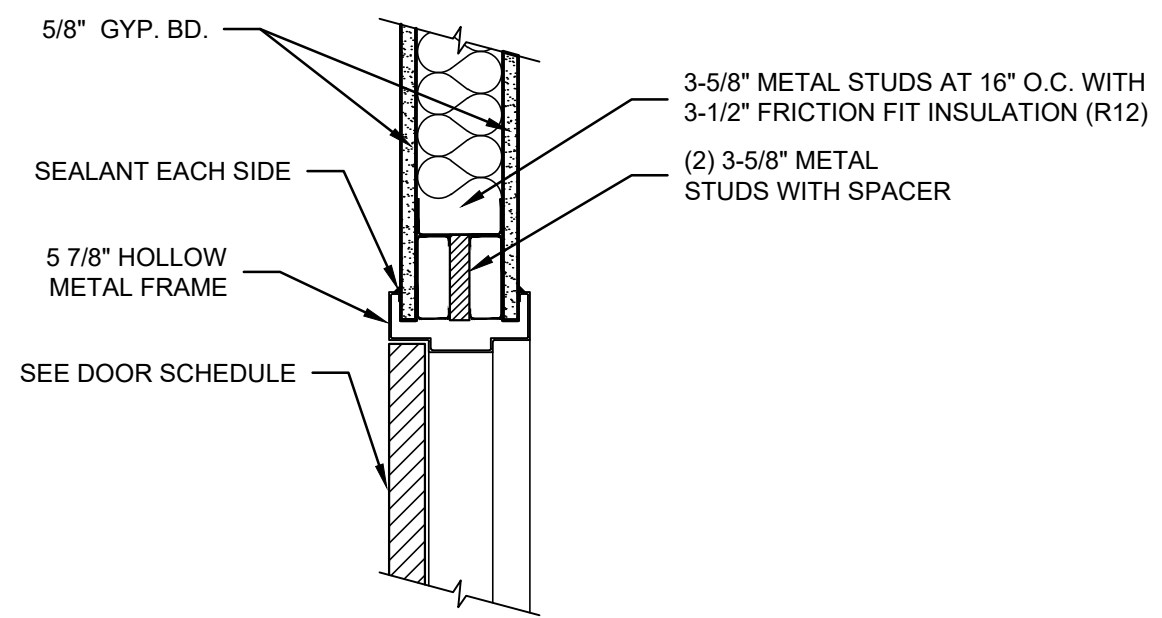
**02** EXT. ALUMINUM DOOR JAMB  
SCALE: 1-1/2" = 1'-0"



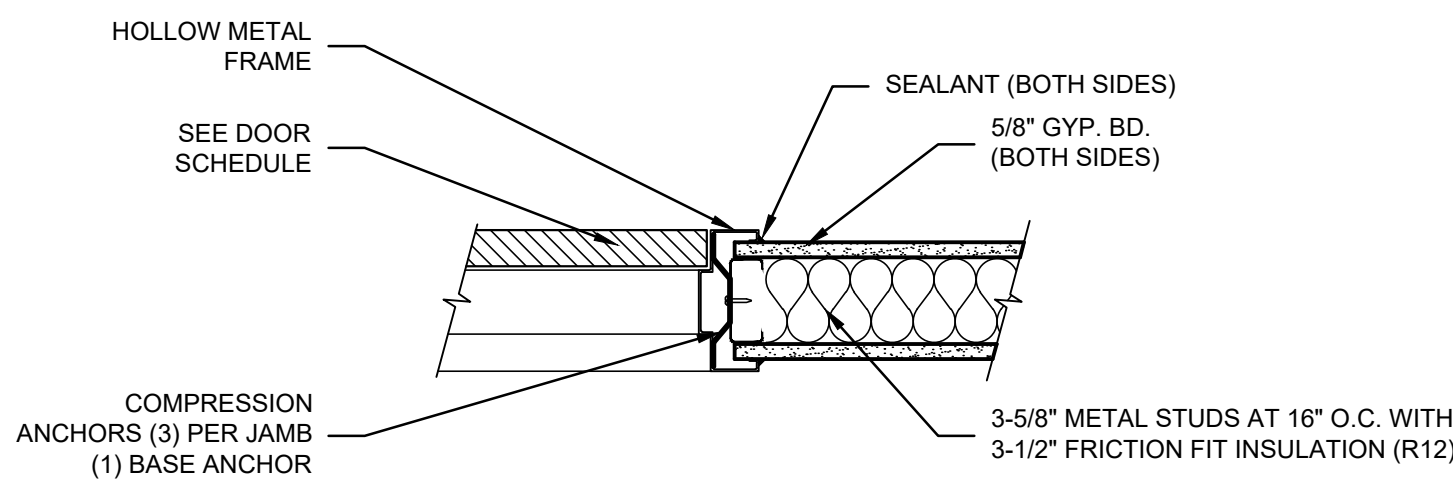
**03** ALUMINUM DOOR JAMB  
SCALE: 1-1/2" = 1'-0"



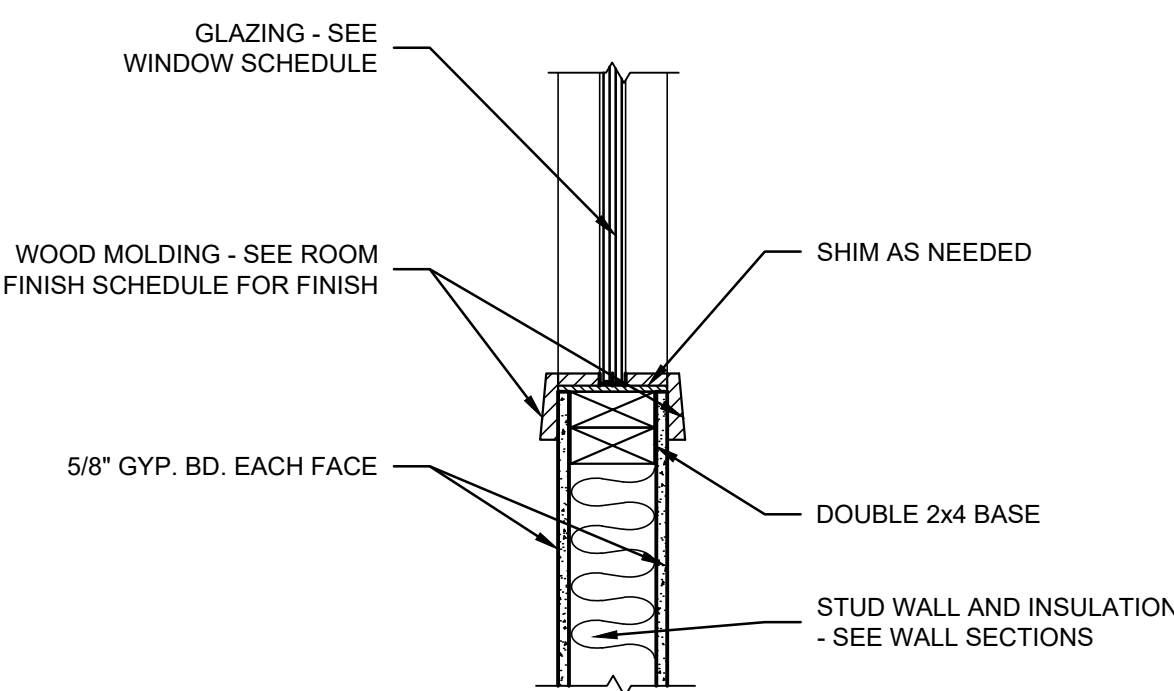
**04** ALUMINUM STOREFRONT DOOR HEAD  
SCALE: 1-1/2" = 1'-0"



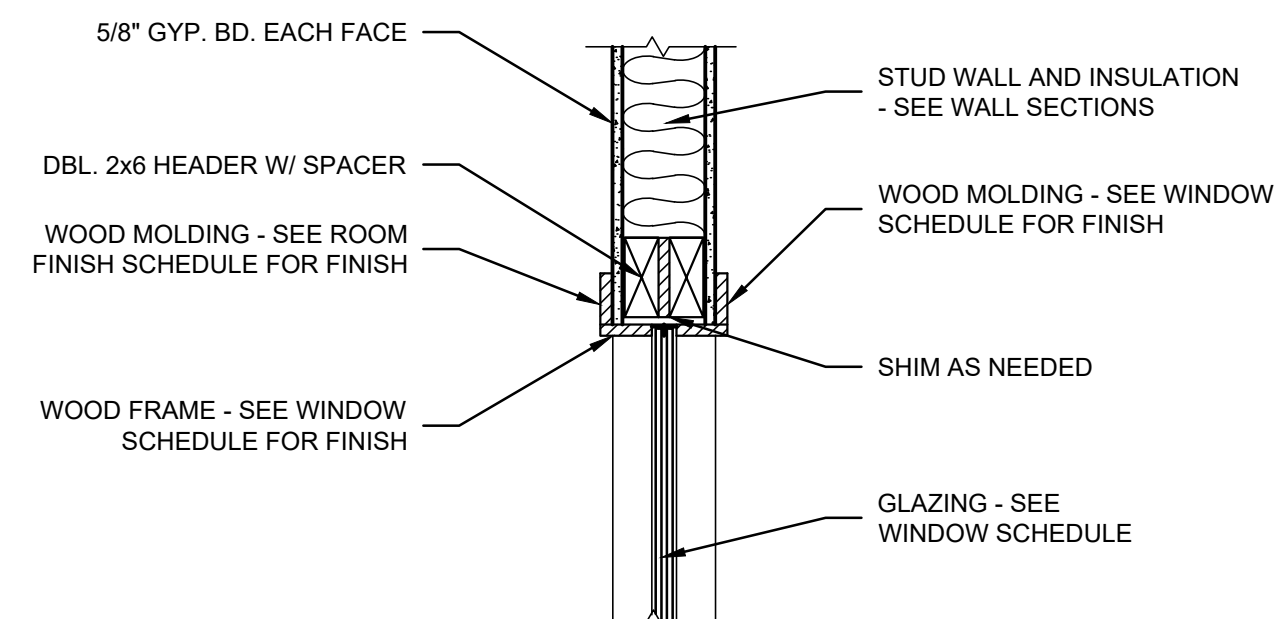
**05** HOLLOW METAL DOOR HEAD  
SCALE: 1-1/2" = 1'-0"



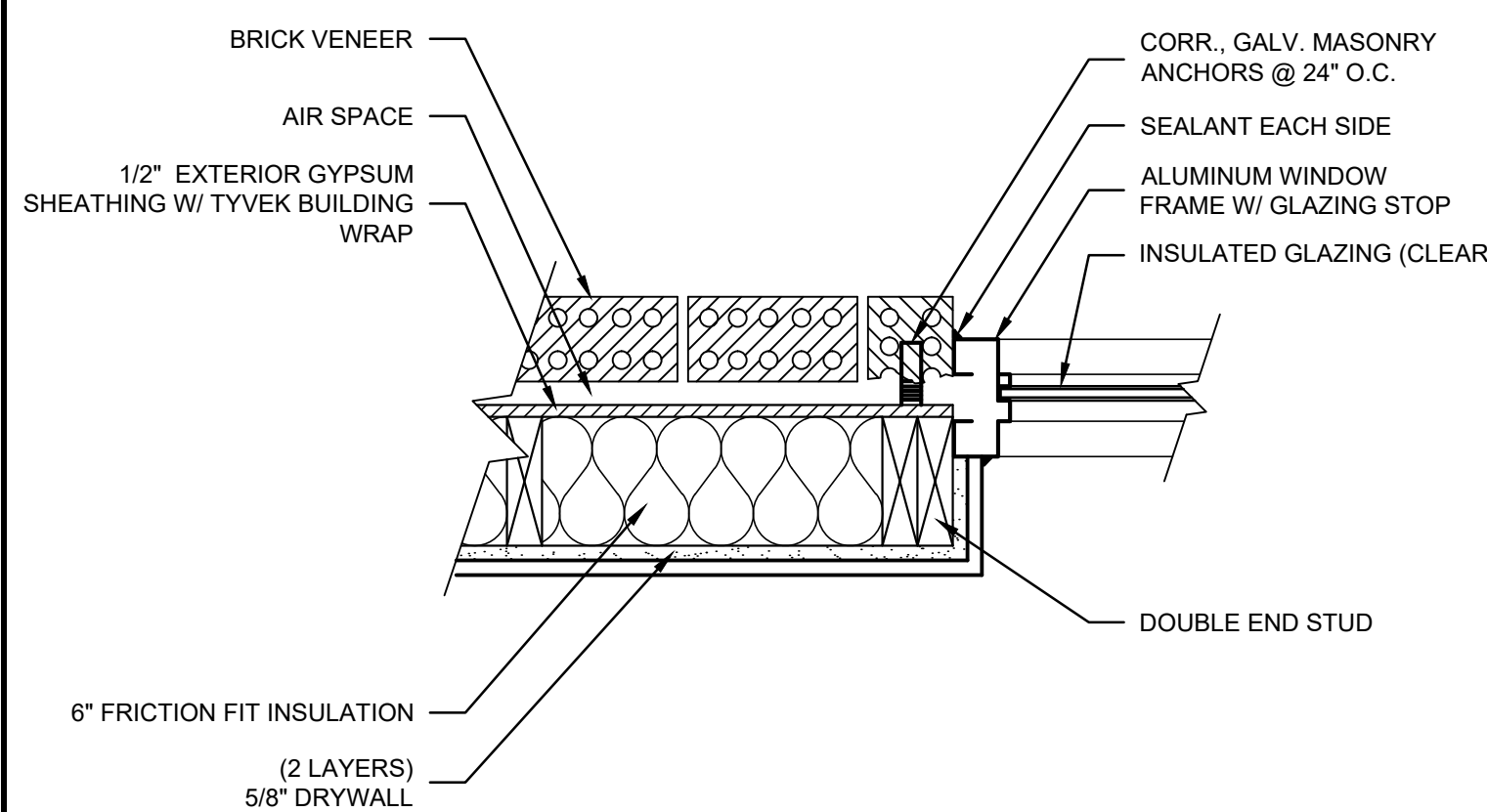
**06** HOLLOW METAL DOOR JAMB  
SCALE: 1-1/2" = 1'-0"



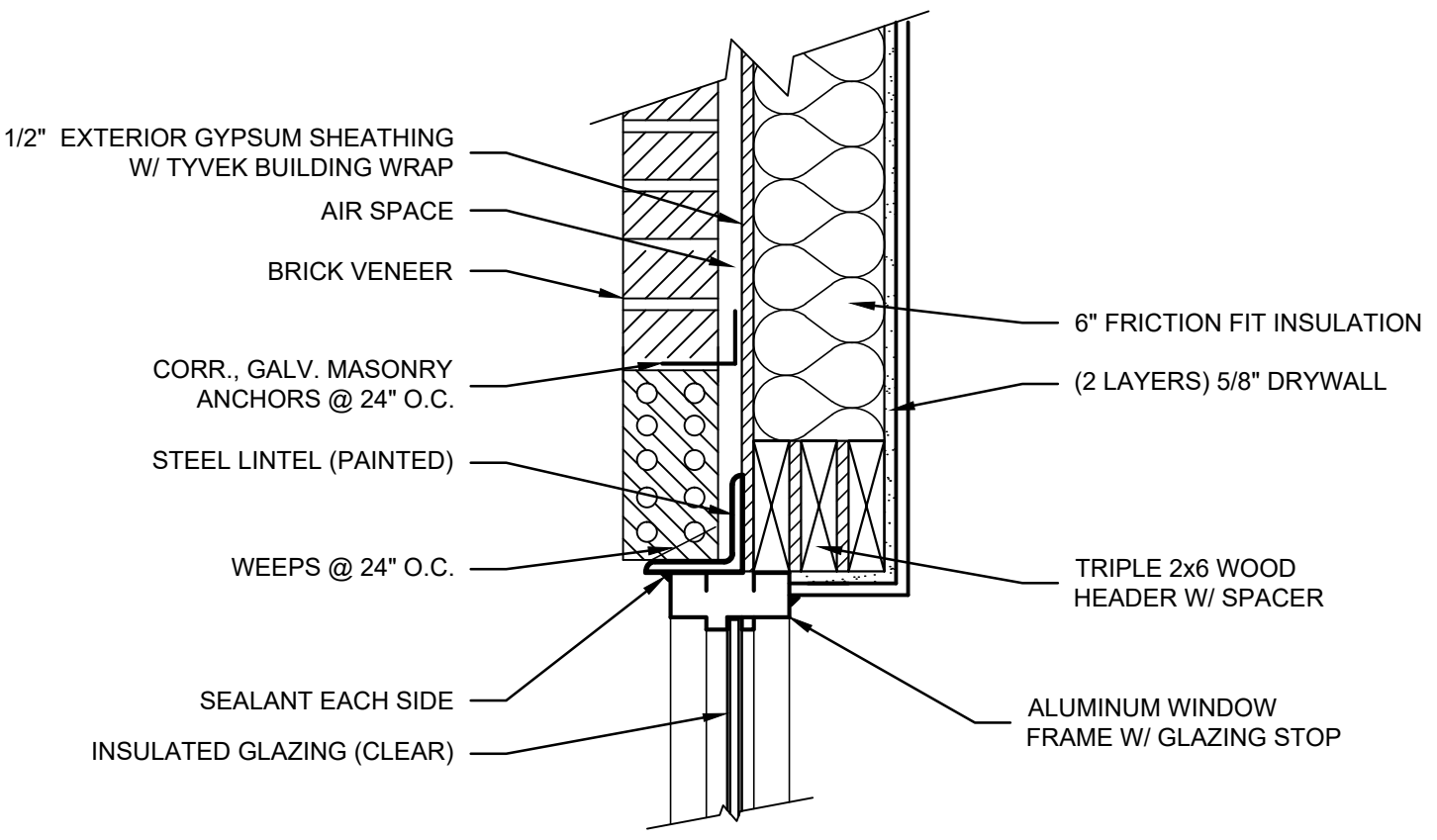
**07** INTERIOR WOOD WINDOW SILL  
SCALE: 1-1/2" = 1'-0"



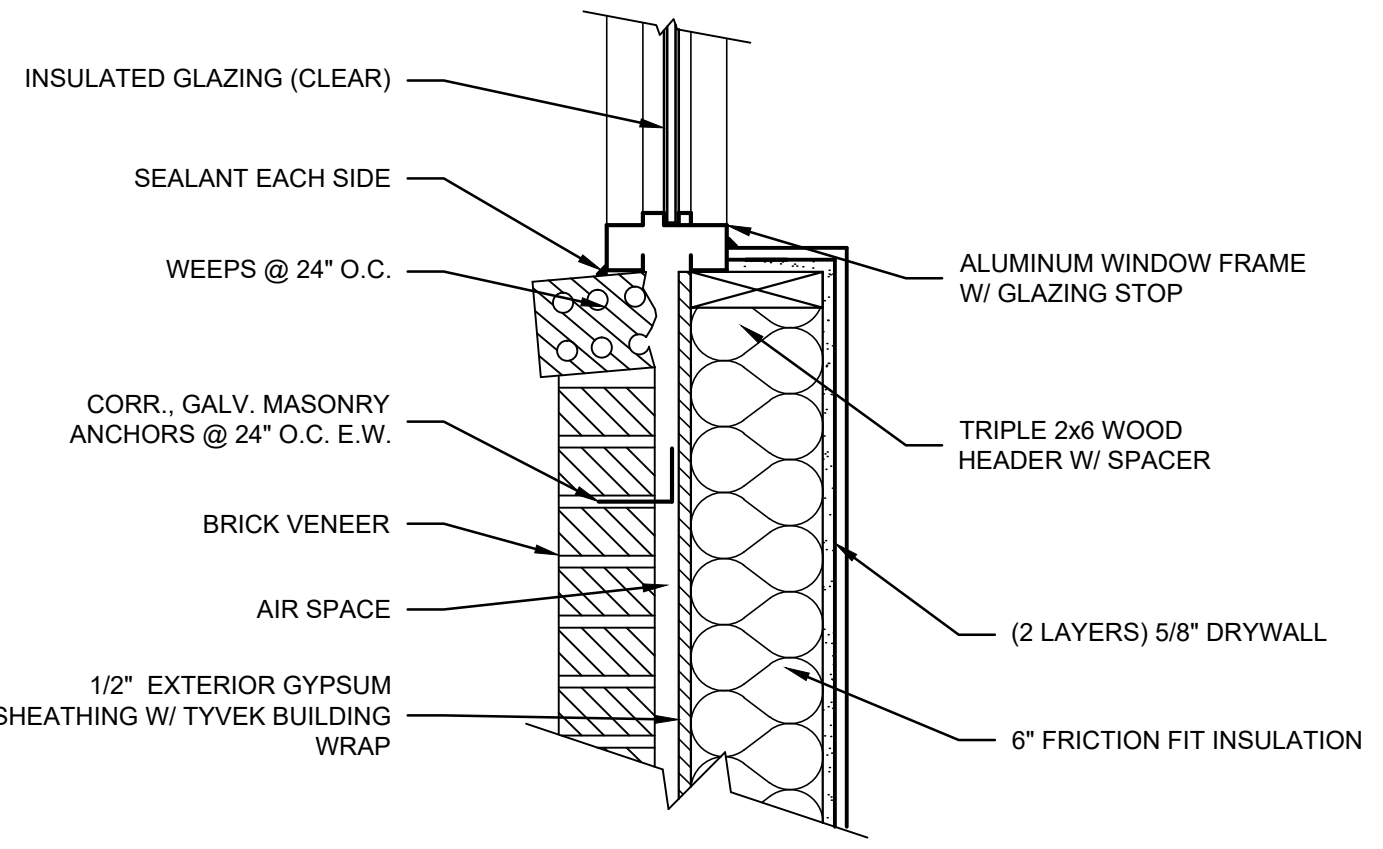
**08** INTERIOR WOOD WINDOW HEAD  
SCALE: 1-1/2" = 1'-0"



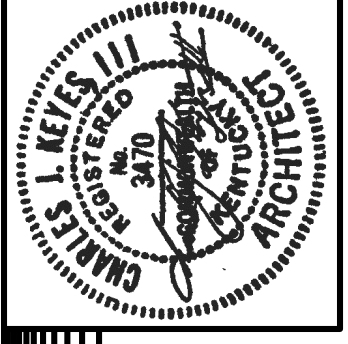
**09** ALUMINUM WINDOW JAMB  
SCALE: 1 1/2" = 1'-0"



**10** ALUMINUM WINDOW HEAD  
SCALE: 1 1/2" = 1'-0"



**11** ALUMINUM WINDOW SILL  
SCALE: 1 1/2" = 1'-0"



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PROJECT: ST GREGORY SCHOOL - FILE: A6.01 Door Details.dwg - DATE: Jul 10, 2024 12:53PM - BY: NICK MCCART

## GENERAL NOTES:

- A. REFER TO SPECIFICATIONS AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- B. ALL MECHANICAL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR.
- C. ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE CONSTRUCTION MANAGER (CM) OR GENERAL CONTRACTOR (GC), OTHER TRADES, THE OWNER, AND RELATED UTILITY COMPANIES. ALL WORK SHALL COINCIDE WITH THE CONSTRUCTION PHASING PER THE CONTRACT DOCUMENTS OR CONSTRUCTION DOCUMENTS AND/OR AS MODIFIED BY THE CM/GC AND APPROVED BY THE OWNER AND DESIGN TEAM. THE MECHANICAL CONTRACTOR SHALL COORDINATE AND DEVELOP A PHASING PLAN WHERE ONE IS NOT EXPLICITLY SHOWN AND SHALL ENSURE THAT SAID PHASING PLAN IS APPROVED PRIOR TO PROCEEDING WITH WORK. ANY AND ALL DEMOLITION SHALL NOT PERMIT INTERRUPTION OF SERVICE IN AN OCCUPIED BUILDING UNLESS COORDINATED AND APPROVED.
- D. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF DUCTWORK, PIPING, EQUIPMENT, AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, VALVE, OR COMPONENT. CONTRACTOR TO PROVIDE ANY ADDITIONAL DUCT OR PIPING OFFSETS AND/OR FITTINGS, INCLUDING DIVIDED DUCTS AND FLATTENED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
- E. THE MECHANICAL CONTRACTOR SHALL OBTAIN A COPY OF THE ENTIRE SET OF CONTRACT DOCUMENTS PRIOR TO BID AND SHALL COORDINATE ROUTING AND INSTALLATION OF MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT WITH ALL OTHER DISCIPLINES AND TRADES INCLUDING BUT NOT LIMITED TO CIVIL, ARCHITECTURAL, STRUCTURAL, FIRE SUPPRESSION, PLUMBING, AND ELECTRICAL.
- F. REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF A FULLY FUNCTIONAL MECHANICAL SYSTEM AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO BUILDING CODE, ASHRAE, IMC, IECC, SMACNA, AND NFPA.
- G. THE EXACT LOCATIONS OF ALL EQUIPMENT, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH ALL OTHER TRADES. CEILING MOUNTED LIGHTING AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL EQUIPMENT. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
- H. THE MECHANICAL DRAWINGS REFLECT A "BASIS OF DESIGN" HVAC SYSTEM THAT HAS BEEN DESIGNED AROUND SPECIFIC PRODUCTS/MANUFACTURER'S (SEE SCHEDULES). THE SELECTION OF A "BASIS OF DESIGN" HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). THE CONTRACTOR MAY USE "NON-BASIS OF DESIGN" PRODUCTS/MANUFACTURER'S AS PERMITTED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. IF "NON-BASIS OF DESIGN" MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, SUBMITTED, OR INSTALLED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL OF HIS OR HER SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BID. SUBSEQUENTLY, ANY ADDITIONAL COST BORE BY THE ENGINEER (MECHANICAL, ELECTRICAL, ETC.) TO ACCOMMODATE "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE BORE BY THE CONTRACTOR AND PAID TO THE ENGINEER OF RECORD DURING SUBMITTALS.
- I. NON-BASIS OF DESIGN EQUIPMENT OR MATERIALS AS ALLOWED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS, WHICH ARE INSTALLED AND SUBSEQUENTLY VIEWED UNSATISFACTORY BY THE OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
- J. CONTRACTOR SHALL VISIT THE JOB SITE, FIELD VERIFY FIT, COORDINATE WITH OTHER TRADES, AND BECOME FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING DUCTWORK, INSTALLING EQUIPMENT, ETC. NO ALLOWANCES WILL BE MADE FOR LACK THEREOF.
- K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR ALL PERMITS, TESTING, AND INSPECTIONS.
- L. THE ENTIRE MECHANICAL INSTALLATION SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATINGS AND/OR "UL" ASSEMBLY RATINGS AS REQUIRED BY THE CONTRACT DOCUMENTS AND AS SHOWN ON THE ARCHITECTURAL. SEAL AROUND ALL PENETRATIONS THROUGH ALL FIRE/SMOKE SEPARATIONS AND/OR "UL" RATED ASSEMBLIES. COORDINATE ALL PENETRATIONS WITH THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR. PROVIDE ADDITIONAL FIRE DAMPERS, SMOKE DETECTORS, AND SMOKE DAMPERS (INCLUSIVE OF WIRING) AS REQUIRED FOR A FULLY FUNCTIONAL AND CODE COMPLIANT SYSTEM.
- M. ALL DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. NO OTHER TRADES, I.E. ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM MECHANICAL DUCTWORK OR MECHANICAL PIPING.
- N. ALL BUILDING PENETRATIONS MUST BE COORDINATED WITH THE ARCHITECT AND SHALL BE FLASHED AND SEALED WEATHER-TIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY THE ARCHITECT. NEW OPENINGS AND/OR PENETRATIONS FOR MECHANICAL ITEMS SHALL BE CUT, SLEEVED, ETC. BY THE MECHANICAL CONTRACTOR. ALL OPENINGS SHALL BE CORE DRILLED OR SAW-CUT. NO "HAMMER DRILLING" WILL BE ALLOWED.
- O. ROUTE DUCTWORK AS HIGH AS POSSIBLE TO FACILITATE ACCESS TO ABOVE CEILING SPACE. COORDINATE ROUTING WITH OTHER SERVICES AND TRADES. PROVIDE ADDITIONAL DUCTWORK, OFFSETS, ETC. TO ACCOMMODATE FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM AT NO ADDITIONAL COST. ADDITIONAL OFFSETS REQUIRE APPROVAL FROM THE ENGINEER. ROUTE DUCTWORK BETWEEN JOISTS WHERE POSSIBLE.
- P. ALL AIR DEVICES LOCATED ABOVE GYPBOARD OR HARD CEILINGS SHALL HAVE ACCESSIBLE BALANCING DAMPERS.
- Q. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- R. PROVIDE AND INSTALL DUCT ACCESS DOORS FOR INSPECTION OF ALL INSTALLED FIRE DAMPERS AS DIRECTED BY SMACNA HVAC CONSTRUCTION STANDARDS.
- S. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF UL 181 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING AND KINKING. INSULATED FLEXIBLE DUCTS SHALL MEET MINIMUM R-VALUES REQUIRED BY THE IECC.
- T. ALL HVAC EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. UTILIZE FACTORY FILTERS DURING CONSTRUCTION.
- U. THE MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNERS REPRESENTATIVES WITH COMPLETE NEBB/AABC BALANCE REPORT. THE MECHANICAL CONTRACTOR SHALL PROVIDE AS MANY ADDITIONAL SITE VISITS BY THE LICENSED TAB CONTRACTOR AS REQUIRED BY THE ENGINEER FOR A COMPLETE AND FUNCTIONING AND APPROVED SYSTEM IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- V. PROVIDE A MANUAL VOLUME DAMPER AT ALL BRANCH TAKE-OFFS ON SUPPLY AND RETURN. COORDINATE ADDITIONAL MANUAL VOLUME DAMPER LOCATIONS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM WITH THE ENGINEER PRIOR TO ORDER, FABRICATION, OR INSTALLATION.
- W. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR "CLEAR" DUCT DIMENSIONS.
- X. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTDOOR AIR INTAKES AND EXHAUST, PLUMBING VENTS, ETC. AND/OR AS REQUIRED BY THE BUILDING CODE, WHICHEVER IS MORE STRINGENT.
- Y. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM EDGE OF ROOFTOP EQUIPMENT TO ROOF EDGE UNLESS RAILING OR PARAPET OF SUFFICIENT HEIGHT IS TO BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO: IBC, IMC, LOCAL CODES, OSHA GUIDELINES (WHERE APPLICABLE). REFER TO ARCHITECTURAL.
- Z. ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH NEC.
- AA. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND DRAWINGS FOR CONNECTIONS AND LOCATION OF ALL EQUIPMENT.
- AB. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR BENDS IN PIPING AS REQUIRED TO ALLOW FOR EXPANSION AND CONTRACTION DUE TO TEMPERATURE CHANGES AND DIFFERENCES IN THE AMBIENT TEMPERATURE WHEN PIPING AND EQUIPMENT IS INSTALLED.
- AC. ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES AND THE AMERICAN ROOFING COUNCIL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AS NECESSARY TO MAINTAIN ALL WARRANTIES.
- AD. STRUCTURAL MEMBERS SHALL NOT BE CUT OR COMPROMISED IN ANY WAY.
- AE. DO NOT BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT. DO NOT INSTALL PIPING, DUCTWORK, OR EQUIPMENT OVER ELECTRICAL PANELS/SWITCHGEAR OR THE 30" x 42" (W x D) CLEARANCE IN FRONT OF THESE ELECTRICAL ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH NEC.

## ABBREVIATIONS

GENERAL	
ATF	ABOVE FINISHED FLOOR
AMP	AMPERE
ARCH	ARCHITECT
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB TEMPERATURE
DEG	DEGREE
DOC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DIM	DIMENSION
DP	DIFFERENTIAL PRESSURE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONIC COMMUTATED MOTOR
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EX	EXISTING
F	FAHRENHEIT
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FT	FEET
FT-HD	FEET HEAD
G	GAS
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HZ	HERTZ (FREQUENCY, CYCLES PER SECOND)
IN	INCHES
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MIN	MINIMUM
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NO.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
SEN	SENSIBLE
SHC	SENSIBLE HEAT CAPACITY
SP	STATIC PRESSURE
SPECS	SPECIFICATIONS
SQ	SQUARE
SF	SQUARE FEET
SUP	SUPPLY
T	TEMPERATURE
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TON	12,000 BTUH COOLING CAPACITY
TYP	TYPICAL
V	VOLTS (ELECTRICAL)
WB	WET BULB TEMPERATURE

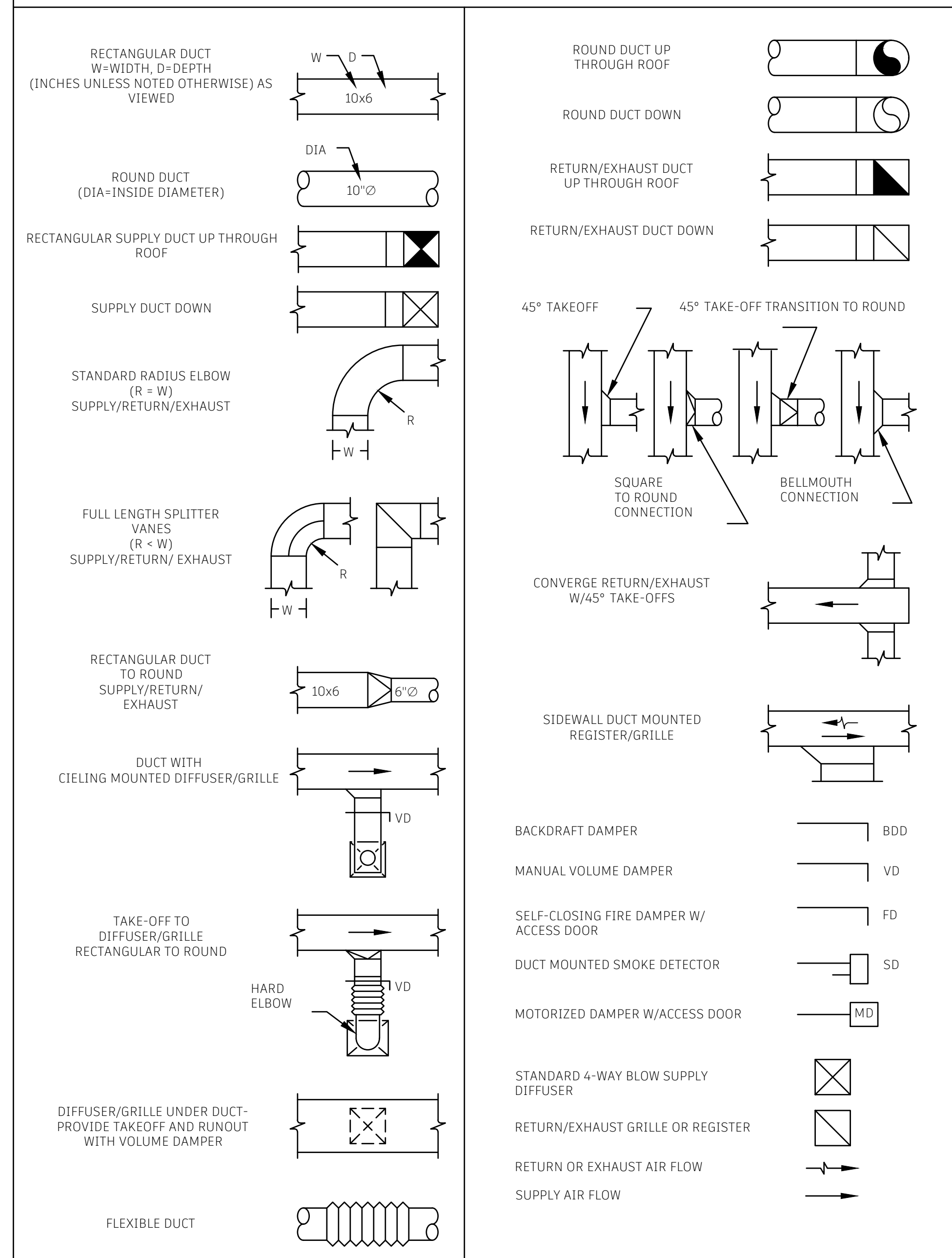
  

DUCTWORK	
EA	EXHAUST AIR
E	EXHAUST GRILLE
FD	FIRE DAMPER (W/ ACCESS DOOR)
MD	MOTOR OPERATED DAMPER
MUA	MAKE-UP AIR
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
RA	RETURN AIR
R	RETURN GRILLE
SA	SUPPLY AIR
S	SUPPLY GRILLE
TSP	TOTAL STATIC PRESSURE (IN. WG)
VD	VOLUME DAMPER

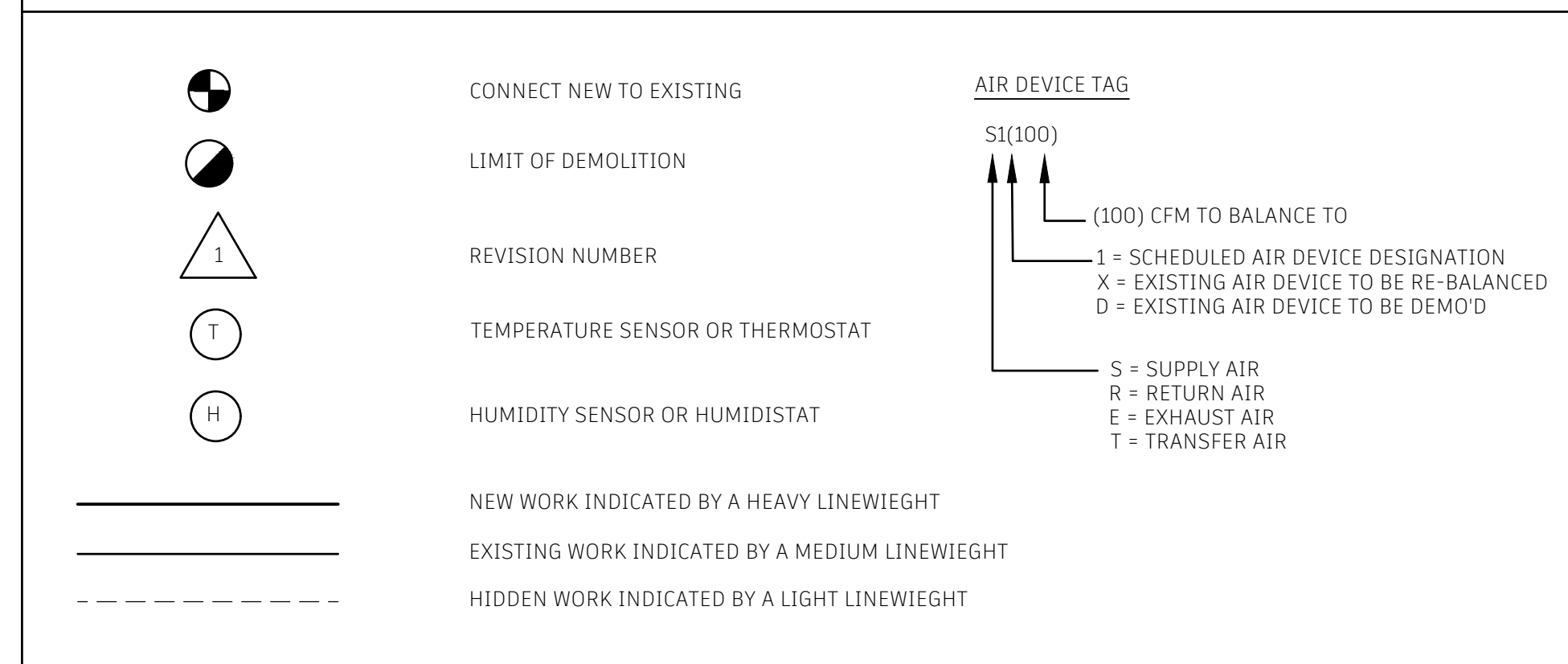
  

EQUIPMENT	
DDC	DIRECT DIGITAL CONTROL
EF	EXHAUST FAN
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MUA	MAKE-UP AIR UNIT
RTU	ROOF TOP UNIT

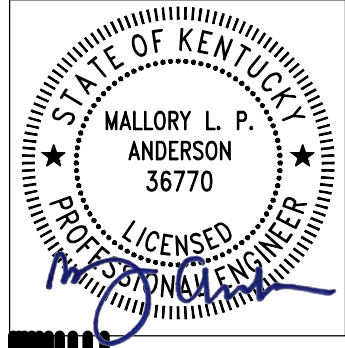
## DUCTWORK



## GENERAL SYMBOLOGY

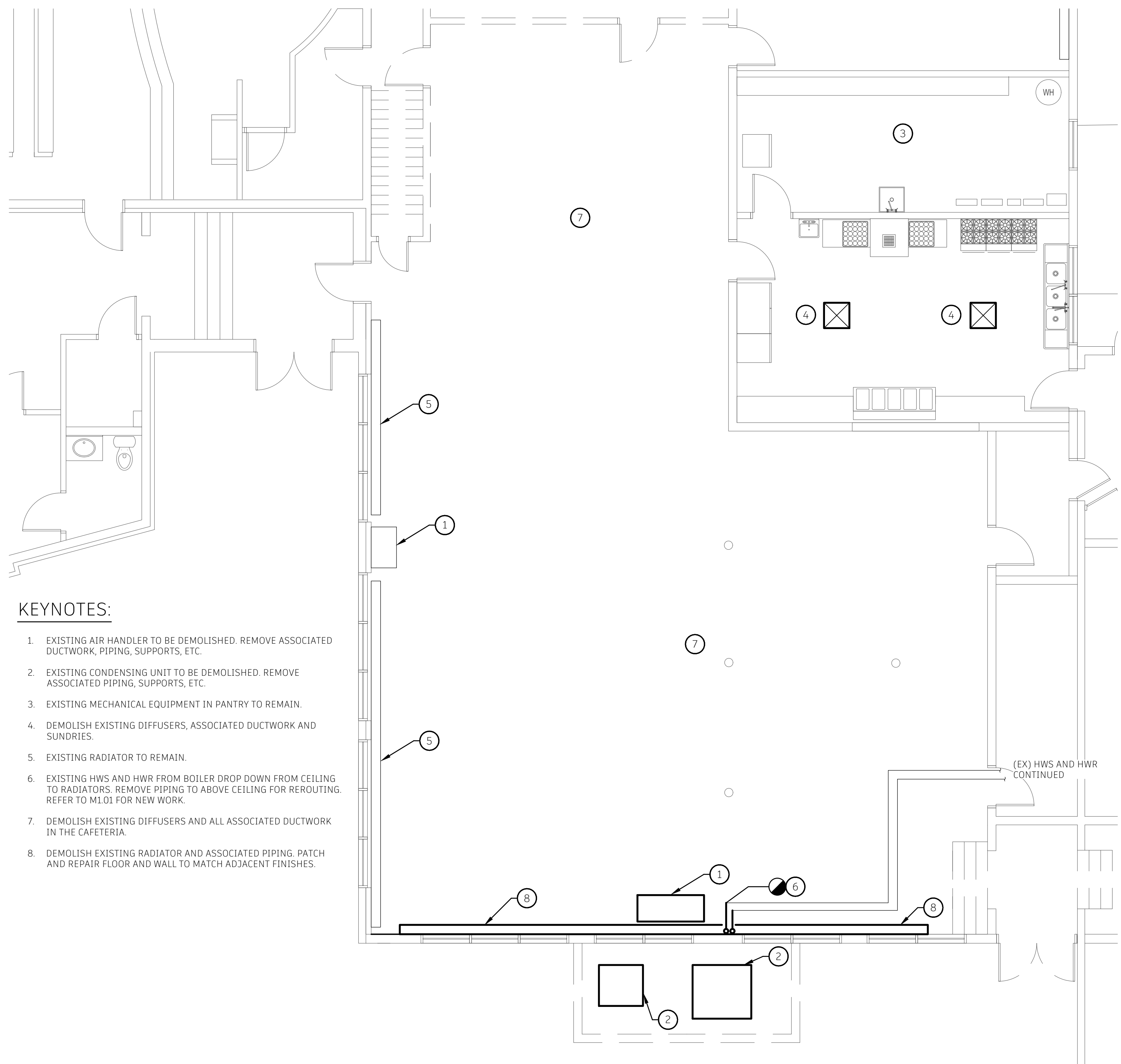


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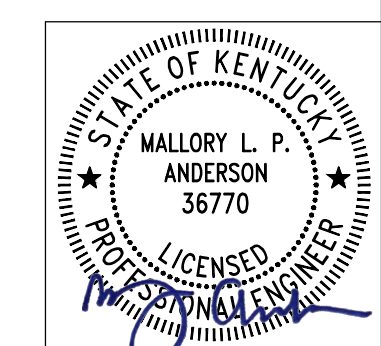
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**KEYNOTES:**

1. EXISTING AIR HANDLER TO BE DEMOLISHED. REMOVE ASSOCIATED DUCTWORK, PIPING, SUPPORTS, ETC.
2. EXISTING CONDENSING UNIT TO BE DEMOLISHED. REMOVE ASSOCIATED PIPING, SUPPORTS, ETC.
3. EXISTING MECHANICAL EQUIPMENT IN PANTRY TO REMAIN.
4. DEMOLISH EXISTING DIFFUSERS, ASSOCIATED DUCTWORK AND SUNDRIES.
5. EXISTING RADIATOR TO REMAIN.
6. EXISTING HWS AND HWR FROM BOILER DROP DOWN FROM CEILING TO RADIATORS. REMOVE PIPING TO ABOVE CEILING FOR REROUTING. REFER TO M1.01 FOR NEW WORK.
7. DEMOLISH EXISTING DIFFUSERS AND ALL ASSOCIATED DUCTWORK IN THE CAFETERIA.
8. DEMOLISH EXISTING RADIATOR AND ASSOCIATED PIPING. PATCH AND REPAIR FLOOR AND WALL TO MATCH ADJACENT FINISHES.

① MECHANICAL PLAN  
3/16" = 1'-0"

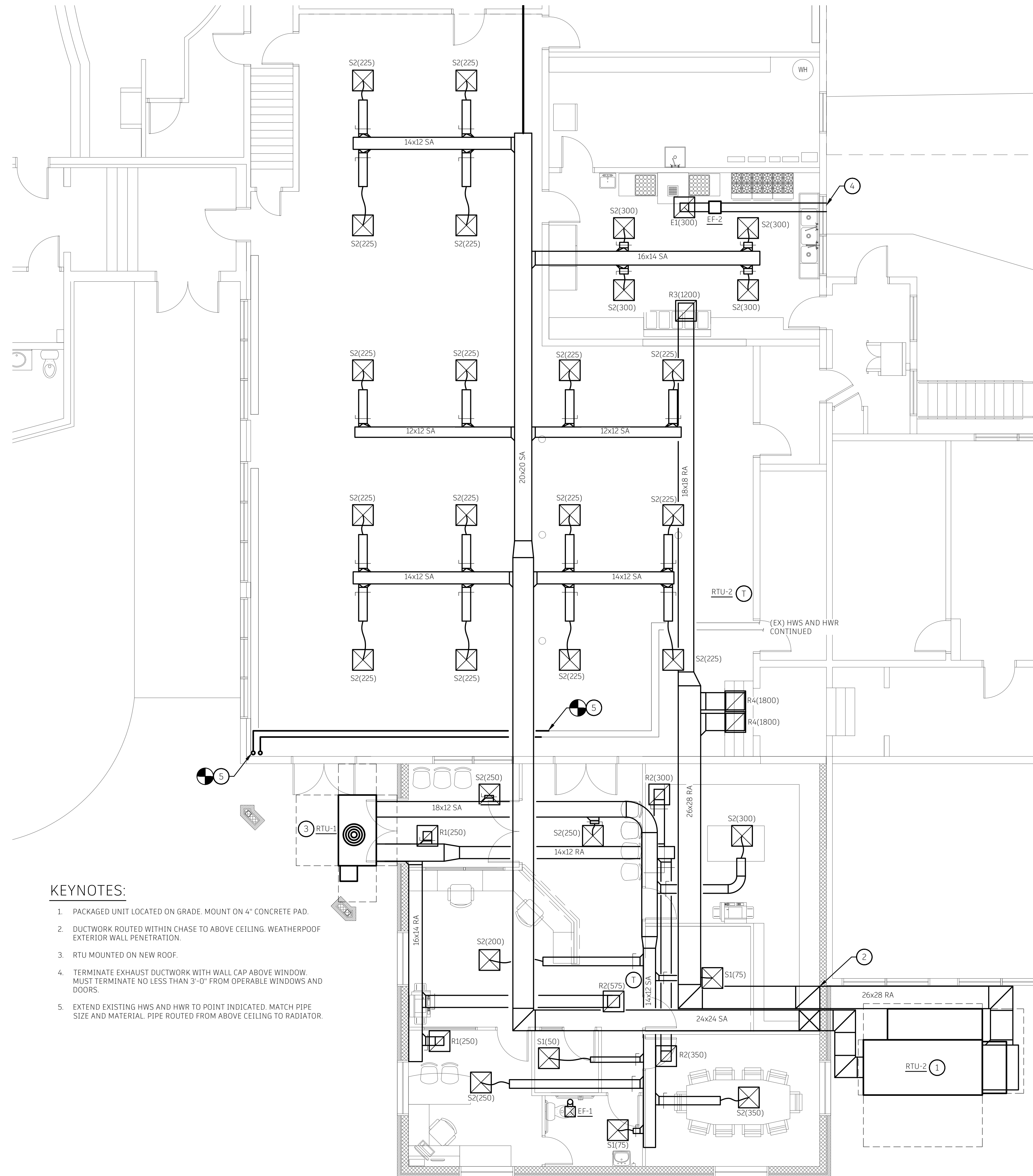


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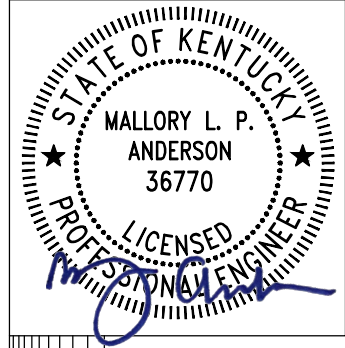
MECHANICAL SPECIFICATIONS  
**M8.01**



**KEYNOTES:**

1. PACKAGED UNIT LOCATED ON GRADE. MOUNT ON 4" CONCRETE PAD.
2. DUCTWORK ROUTED WITHIN CHASE TO ABOVE CEILING. WEATHERPOOF EXTERIOR WALL PENETRATION.
3. RTU MOUNTED ON NEW ROOF.
4. TERMINATE EXHAUST DUCTWORK WITH WALL CAP ABOVE WINDOW. MUST TERMINATE NO LESS THAN 3'-0" FROM OPERABLE WINDOWS AND DOORS.
5. EXTEND EXISTING HWS AND HWR TO POINT INDICATED. MATCH PIPE SIZE AND MATERIAL. PIPE ROUTED FROM ABOVE CEILING TO RADIATOR.

1 MECHANICAL PLAN  
3/16" = 1'-0"



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### EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	ESP (IN H2O)	DRIVE TYPE	RPM	ELECTRICAL				REMARKS
							V/Ø/Hz	WATTS	MCA	MOCP	
EF-1	GREENHECK	SP-A90	75	0.25	DIRECT	900	115/1/60	15	0.2	15	1-6
EF-2	GREENHECK	CSP-A390	300	0.5	DIRECT	1350	115/1/60	135	1.8	15	1-3,6,7

REMARKS:  
 1. PROVIDE WITH UNIT MOUNTED DISCONNECT  
 2. PROVIDE WITH UNIT MOUNTED SPEED CONTROL  
 3. PROVIDE WITH APPROPRIATE BACKDRAFT DAMPER  
 4. TERMINATE WITH ROOF CAP.  
 5. EXHAUST FAN TO OPERATE WITH LIGHTING CONTROL.  
 6. SUPPORT FROM THE STRUCTURE WITH VIBRATION ISOLATION HARDWARE.  
 7. FAN TO OPERATE BASED ON 7-DAY PROGRAMMABLE TIME CLOCK.  
 OTHER ACCEPTABLE MANUFACTURERS INCLUDE: CARNES, COOK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

### AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	MAX CFM	MODULE	MOUNTING	DUCT RUN OUT SIZE	REMARKS
S-1	PRICE	SCD	50 - 75	24X24	LAY-IN	6"Ø	ALL
S-2	PRICE	SCD	200 - 350	24X24	LAY-IN	10"Ø	ALL
R-1	PRICE	80	250	24X24	LAY-IN	10x10	1-3,5,6
R-2	PRICE	80	300 - 575	24X24	LAY-IN	12x12	1-3,5,6
R-3	PRICE	80	1200	24X24	LAY-IN	18x18	1-3,5,6
R-4	PRICE	80	1800	24X24	LAY-IN	22x20	1-3,5,6
E-1	PRICE	80	300	24X24	LAY-IN	10x10	1-3,5,6

REMARKS:  
 1. PROVIDE WITH WHITE FINISH  
 2. COORDINATE AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS PRIOR TO INSTALLATION. LIGHTING HAS PRIORITY OVER HVAC.  
 3. PROVIDE SQUARE TO ROUND ADAPTER AS REQUIRED.  
 4. PROVIDE WITH INSULATED BACK.  
 5. N.C. SHALL NOT EXCEED 20.  
 6. PROVIDE WITH APPROPRIATE ACCESSORIES FOR MOUNTING TYPE INDICATED.  
 OTHER ACCEPTABLE MANUFACTURERS INCLUDE: PRICE, NAILOR. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

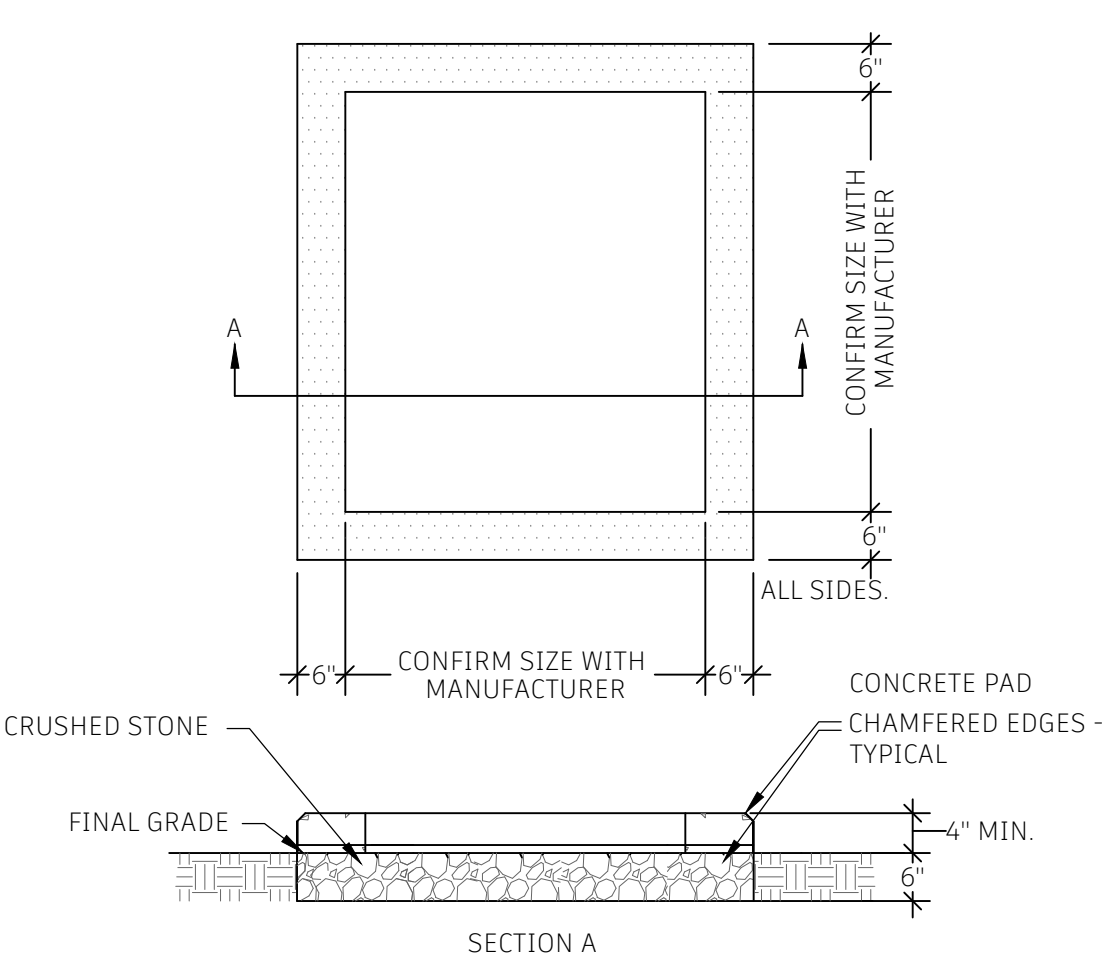
### VENTILATION SCHEDULE - 2015 IMC

UNIT	AREA SERVED	AREA (SQ FT)	ROOM TYPE	CFM/SQ FT	NO. OF OCCUPANTS	CFM/PERSON	EXHAUST AIR (CFM)	TOTAL OUTSIDE AIR REQUIRED (CFM)	TOTAL OUTSIDE AIR PROVIDED (CFM)
RTU-1	VESTIBULE 102	109	MAIN ENTRY LOBBY	0.06	3	5	-	22	25
	WAITING AREA 103	238	MAIN ENTRY LOBBY	0.06	4	5	-	34	35
	FRONT OFFICE 104	234	OFFICE SPACE	0.06	2	5	-	24	25
	WORK ROOM 105	320	OFFICE SPACE	0.06	5	5	-	44	45
	OFFICE 106	95	OFFICE SPACE	0.06	2	5	-	16	20
	CONFERENCE 107	240	CONFERENCE	0.06	10	5	-	64	65
	TOILET 108	72	RESTROOM	-	-	-	75	-	-
	SICK ROOM 109	30	OFFICE SPACE	0.06	1	5	-	7	10
	PRINCIPAL 110	188	OFFICE SPACE	0.06	3	5	-	26	30
	CAFETERIA	4053	MULTIPURPOSE	0.06	222	7.5	-	1908	1910
RTU-2	KITCHEN	420	KITCHEN	-	-	-	294	-	-

### PACKAGED UNIT SCHEDULE

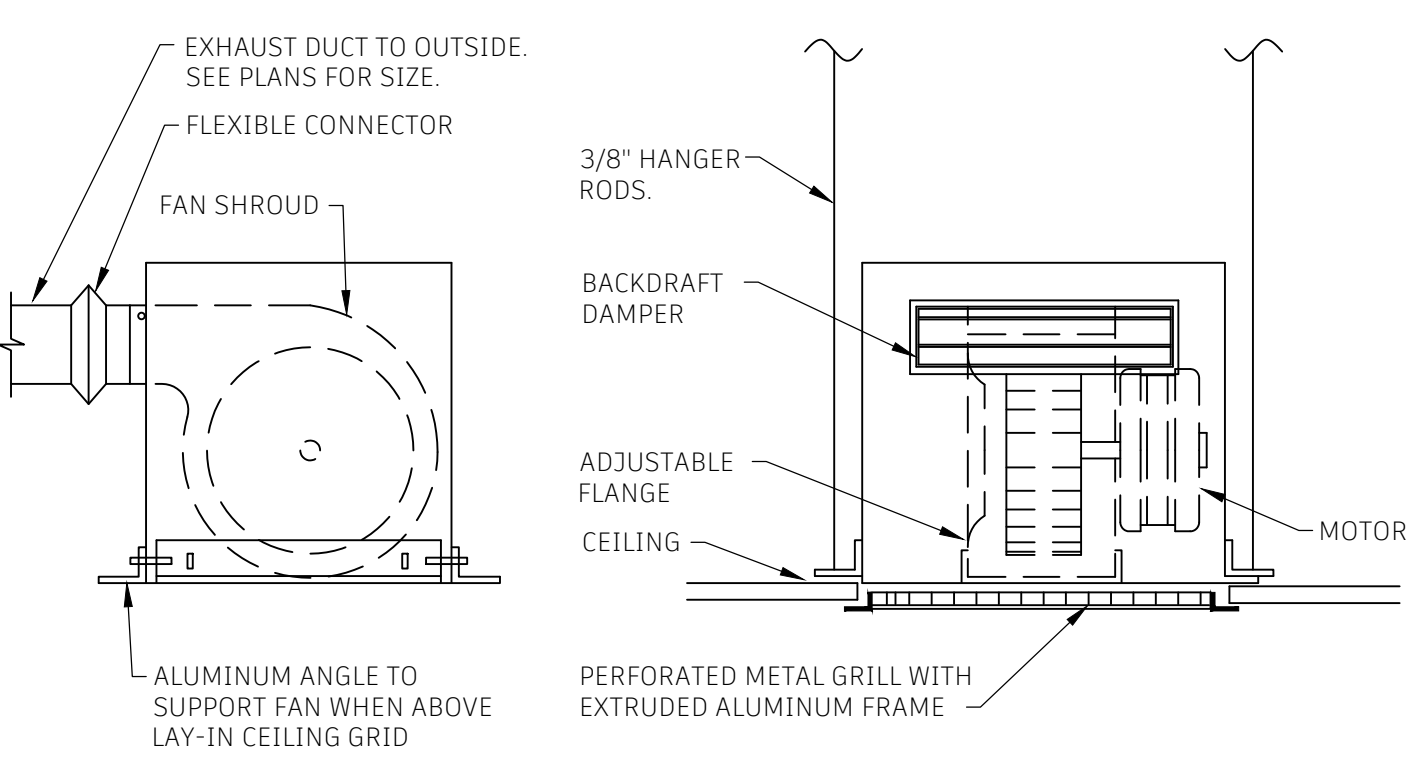
MARK	MANUFACTURER	MODEL	UNIT		SUPPLY FAN				EAT	LAT	COOLING		HEAT PUMP HEATING		LP HEATING		ELECTRICAL			REMARKS					
			WEIGHT	SEER	AIRFLOW (CFM)	OUTSIDE AIR (CFM)	ESP (inH <sup>2</sup> O)	BHP			TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	TYPE	QTY	REFRIGERANT	TOTAL CAPACITY @ 47°F (MBH)	TOTAL CAPACITY @ 17°F (MBH)	INPUT (MBH)	OUTPUT (MBH)		EAT (°F)	LAT (°F)	V/Ø/Hz	MCA	MOCP
RTU-1	AAON	RQ-005-B-H	1000	15	1800	255	0.75	1.13	77/64	55/54	58	45	SCROLL	1	R-410A	52	30	60	48	65	90	208/3/60	35	50	ALL
RTU-2	AAON	RNA-013-C-A-B	3700	-	4800	1910	0.75	2.4	83/66	55/54	149	138	SCROLL	2	R-410A	140	91	270	218	49	90	208/3/60	61	70	1,2,4-9

REMARKS:  
 1. COOLING DESIGN CONDITIONS: 92F DB / 75F WB AMBIENT. HEATING AMBIENT DESIGN CONDITIONS BASED ON 10F DB / 7F WB.  
 2. AIR SOURCE HEAT PUMP WITH SUPPLEMENTAL LP HEAT  
 3. PROVIDE ROOF TOP UNIT WITH ROOF CURB.  
 4. PROVIDE ECONOMIZER WITH BAROMETRIC RELIEF.  
 5. SINGLE POINT POWER CONNECTION WITH FACTORY INSTALLED DISCONNECT SWITCH AND 115V GFI CONVENIENCE OUTLET.  
 6. PROVIDE WITH PHASE PROTECTION / PHASE MOTOR KIT.  
 7. PROVIDE UNIT WITH 2", 30% EFFICIENCY PRIMARY FILTERS.  
 8. PROVIDE WITH HAIL GUARD.  
 9. PROVIDE WITH REMOTE WALL MOUNT THERMOSTAT.  
 OTHER ACCEPTABLE MANUFACTURERS INCLUDE: JCI, CARRIER, AAON, TRANE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



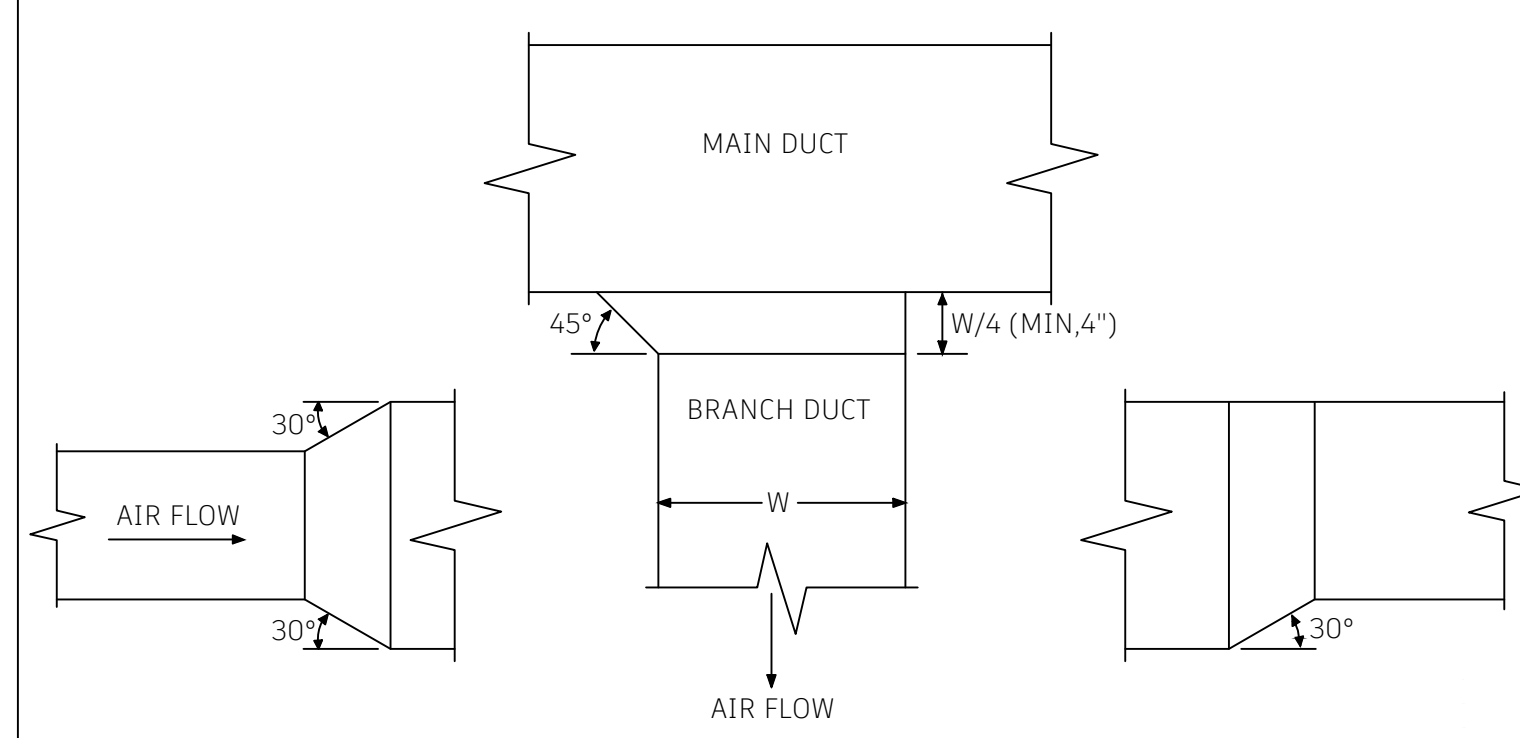
### CONCRETE PAD DETAIL

NOT TO SCALE



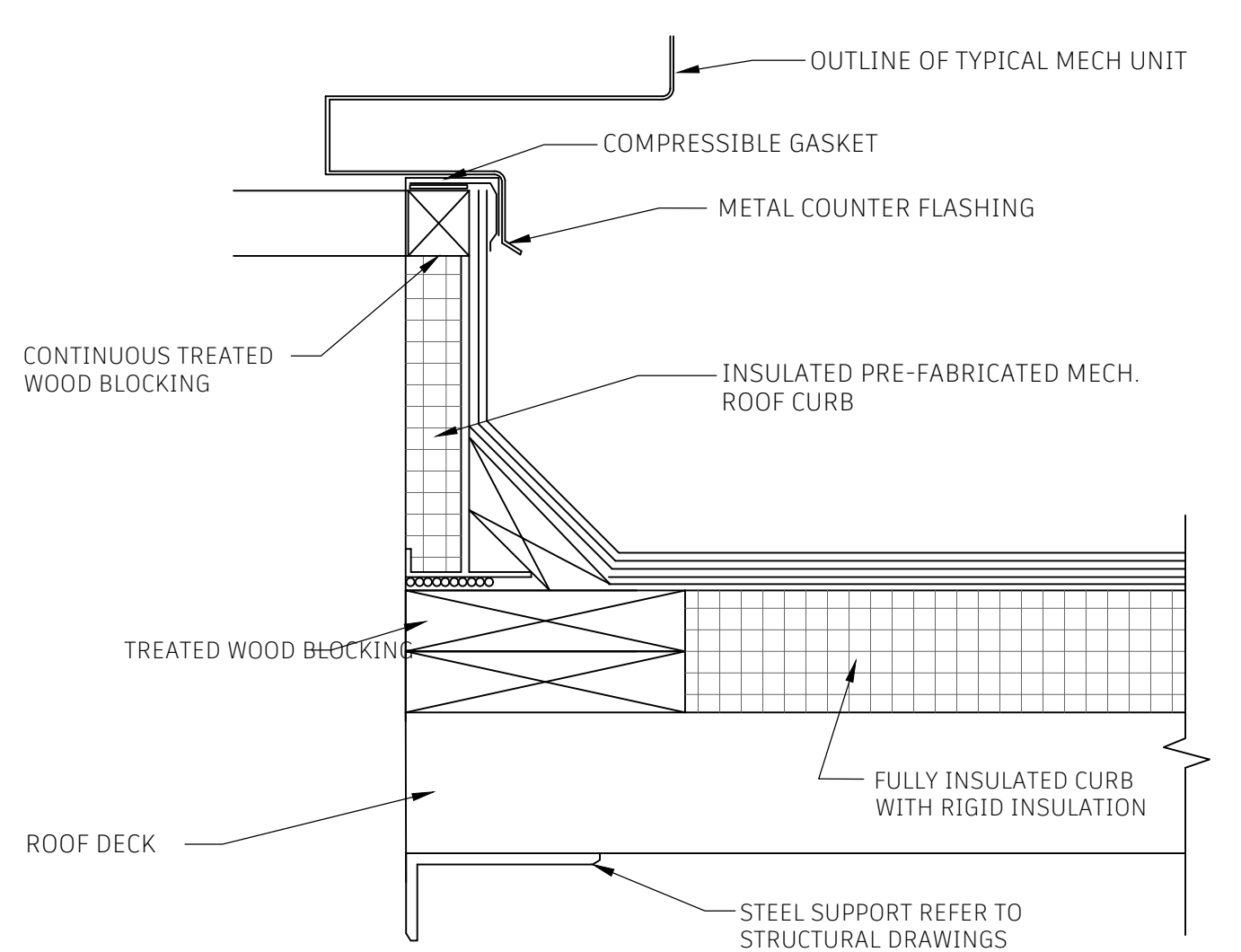
### CEILING CABINET FAN DETAIL

NOT TO SCALE



### DUCT CONNECTION DETAIL

NOT TO SCALE



### ROOFTOP UNIT CURB DETAIL

NOT TO SCALE

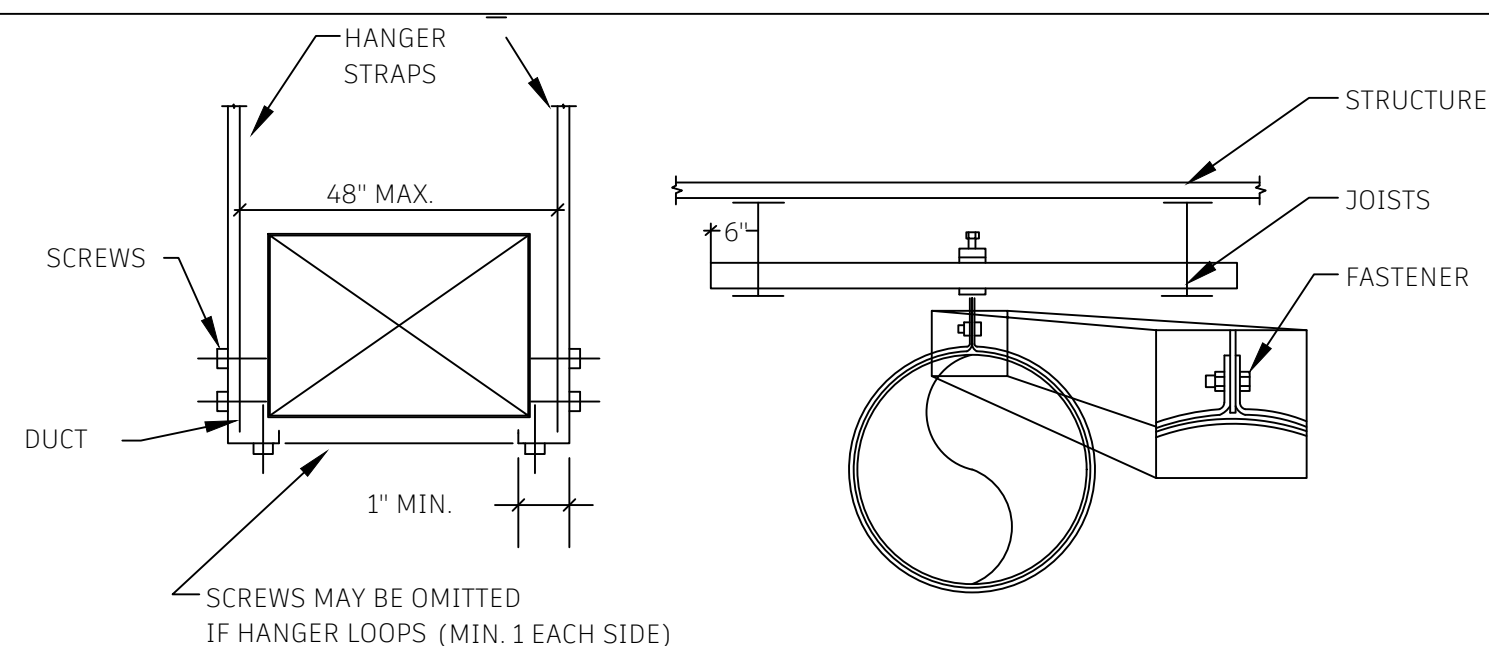
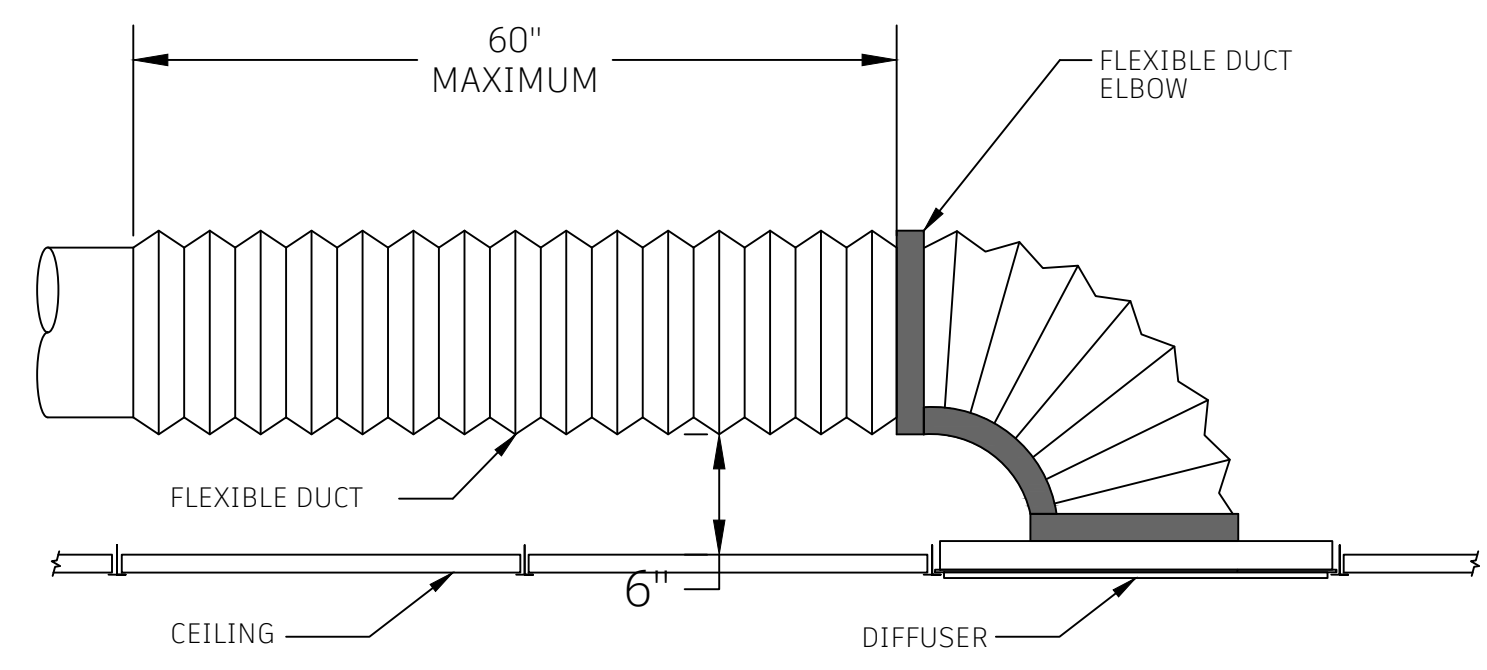


TABLE 2-1 RECTANGULAR DUCT HANGARS			TABLE 2-2 ROUND DUCT HANGARS		
MAX SIDE OF RECTANGULAR DUCT	STRAP	SPACING	DUCT DIAMETER	STRAP	SPACING
18"	1"X18GA"	10'0"	UP TO 10"	1"X26GA"	10'0"
30"	1"X18GA"	10'0"	11" TO 20"	1"X24GA"	10'0"
45"	1"X1/8"	10'0"	21" TO 37"	1"X22GA"	10'0"
60"	1"X1/8"	10'0"	38" TO 40"	1"X20GA"	10'0"

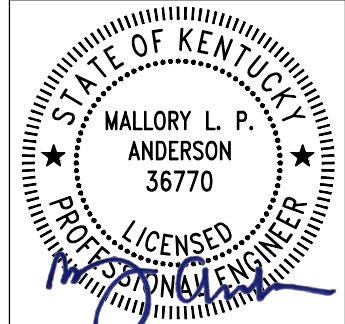
### DUCT HANGER DETAIL

NOT TO SCALE



### FLEX DUCT CONNECTION TO DIFFUSER DETAIL

NOT TO SCALE



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MECHANICAL SCHEDULES  
**M5.01**





SECTION 23 34 23 - POWER VENTILATORS

PART 1 - GENERAL

11 WORK INCLUDED

- A. Inline Exhaust Fans
- B. Ceiling Exhaust Fans

PART 2 - PRODUCTS

21 ACCEPTABLE MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following: Carnes Company, Greenheck Fan Corporation, Loren Cook Company.

22 GENERAL

- A. Provide all fans with disconnect.
- B. Provide all fans with motor starters. See Section 230100 for details.
- C. Integral phase relay shall be provided as a part of all three phase motor starters. Relay shall shut motor down on phase loss or phase unbalance and automatically reset when normal phasing is restored. Phase failure relay shall have adjustable restart time capabilities. Mechanical contractor shall coordinate staggered restart times as required.
- D. See drawings or Specification Section 230900 - INSTRUMENTATION AND CONTROLS FOR HVAC for control of fans.

23 INLINE EXHAUST FAN

- A. Duct mounted, exhaust fans shall be of the centrifugal belt or direct driven in-line type as specified. The fan housing shall be of the square design constructed of heavy gauge galvanized steel and shall include square duct mounting collars
- B. Fan housing shall be equipped with a hinge able service door assembly supporting the motor, drives, wheel and inlet cone. The door assembly must swing out for cleaning, inspection or service without dismantling the fan in any way
- C. The fan wheel shall be of the aluminum backward inclined, centrifugal type. Wheels shall be dynamically and statically balanced and shall overlap the spun inlet venturi for maximum performance
- D. The motor and drives shall be isolated from the air stream. Motors shall be of the heavy-duty type with permanently lubricated, sealed ball bearings. The wheel shaft shall be ground and polished shafting mounted in heavy duty permanently sealed pillow block bearings. Drives shall be sized for a minimum of 165% of driven horsepower. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the wheel and motor shafts. The motor pulleys shall be adjustable for final system balancing.
- E. Flexible wiring leads shall be provided from the fan motor to an external mounted junction box and disconnect switch permitting access for service without disconnecting the field wiring.
- F. All fans shall bear the AMCA Certified Ratings Seal for both air and sound performance.

24 CEILING EXHAUST FANS

- A. Centrifugal Fan Unit: V-belt or direct drive as specified, with galvanized steel housing lined with 1/2-inch acoustic insulation resilient mounted motor, gravity backdraft damper in discharge.
- B. Disconnect Switch: Factory wired, non-fusible, in housing for thermal overload protected motor and wall mounted multiple speed switch/solid state speed controller.
- C. Grille: Molded white plastic or aluminum with baked white enamel finish.
- D. Sheaves: Cast iron or steel, dynamically balanced, bored to fit shafts and keyed, variable and adjustable pitch motor sheaves selected so required rpm is obtained with sheaves set at mid-position, fan shaft with self-aligning pre-lubricated ball bearings.

PART 3 - EXECUTION

31 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install equipment in a manner to provide required clearances for proper operation and maintenance.
- C.

SECTION 23 37 13 - AIR DISTRIBUTION DEVICES

PART 1 - GENERAL

11 WORK INCLUDED

- A. DIFFUSERS, REGISTERS/GRILLES

12 ACTION SUBMITTALS

- A. SHOP DRAWINGS: FOR EACH TYPE OF PRODUCT.

PART 2 - PRODUCTS

21 ACCEPTABLE MANUFACTURERS

- A. MANUFACTURER LISTED IN SCHEDULE IS FOR DESIGN SELECTION ONLY.
- B. REGISTERS, GRILLES, AND DIFFUSERS: PRICE, NAILOR, TITUS

22 RECTANGULAR CEILING DIFFUSERS

- A. SQUARE, STAMPED, MULTICORE TYPE DIFFUSER TO DISCHARGE AIR IN FIXED 360-DEGREE PATTERN, OR ADJUSTABLE PATTERN AS SPECIFIED.
- B. PROVIDE FOR SURFACE MOUNT AND INVERTED T-BAR WHERE SHOWN. IN PLASTER CEILINGS, PROVIDE CEILING FRAME AND CEILING FRAME.
- C. FABRICATE OF ALUMINUM WITH BAKED ENAMEL FINISH.
- D. PROVIDE RADIAL OPPOSED BLADES DAMPER ADJUSTABLE FROM DIFFUSER FACE FOR SURFACE MOUNTED UNIT WHERE SPECIFIED.

23 CEILING GRID CORE EXHAUST AND RETURN REGISTERS/GRILLES

- A. FIXED GRILLES OF 1/2 X 1/2 X 1-INCH LOUVERS.
- B. FABRICATE MARGIN FRAME WITH COUNTERSUNK SCREW MOUNTING OR LAY-IN FRAME FOR SUSPENDED GRID CEILINGS AS SHOWN IN SCHEDULE ON DRAWINGS
- C. FABRICATE OF ALUMINUM WITH FACTORY CLEAR LACQUER FINISH.
- D. WHERE SCHEDULED PROVIDE INTEGRAL, GANG-OPERATED OPPOSED BLADE DAMPERS WITH REMOVABLE KEY OPERATOR, OPERABLE FROM FACE.
- E. ALL LOUVER-FACED GRILLES SHALL BE PROVIDED WITH PATTERN CONTROLLER BLADES UNLESS SCHEDULED OTHERWISE ON THE DRAWINGS.

PART 3 - EXECUTION

31 INSTALLATION

- A. FURNISH AND INSTALL WHERE SHOWN ON DRAWINGS ALL REGISTERS, GRILLES AND DIFFUSERS IN ACCORDANCE WITH THE TABULATION IN THE SCHEDULE ON DRAWINGS.
- B. PROVIDE ACCESSORIES AND MODIFICATIONS AS INDICATED IN SCHEDULE NOTES.
- C. INSTALL ITEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- D. INSTALL IN LOCATIONS AS SHOWN ON DRAWINGS. ITEMS HAVE BEEN LOCATED AS SHOWN TO PROVIDE MAXIMUM PERFORMANCE. COORDINATE WITH ARCHITECTURAL FEATURES AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS.
- E. INSTALL DIFFUSERS TO DUCTWORK WITH AIR TIGHT CONNECTION.
- F. PROVIDE ACCESSIBLE BALANCING DAMPERS ON DUCT TAKE-OFF TO DIFFUSERS, AND GRILLES AND REGISTERS, REGARDLESS OF WHETHER DAMPERS ARE SPECIFIED AS PART OF THE DIFFUSER, OR GRILLE AND REGISTER.

SECTION 23 74 13 - PACKAGED ROOF TOP GAS/ELECTRIC AIR CONDITIONING UNITS

PART 1 - GENERAL

11 SECTION INCLUDES

- A. PACKAGED ROOF TOP UNIT
- B. UNIT CONTROLS
- C. ROOF MOUNTING FRAME AND BASE

12 RELATED DOCUMENTS

- A. THE GENERAL AND SPECIAL CONDITIONS, DIVISION 01 SPECIFICATION SECTIONS, AND ALL OTHER CONTRACT DOCUMENTS (ESPECIALLY DIVISIONS 21, 22, 23 AND 26) ARE APPLICABLE TO WORK UNDER THIS SECTION OF THE SPECIFICATIONS. ALL THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE GOVERNED BY ANY ALTERNATES AND UNIT PRICES CALLED FOR IN THE FORM OF PROPOSAL INsofar AS THEY AFFECT THIS PORTION OF THE WORK.
- B. SECTION 220100 - GENERAL PROVISION FOR MECHANICAL WORK

13 ACTION SUBMITTALS

- A. SHOP DRAWINGS:
  - 1. PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED.
    - a. INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, AND FINISHES, AND RELATED ROOF CURB.
    - b. INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, ELECTRICAL CHARACTERISTICS, AND FURNISHED SPECIALTIES AND ACCESSORIES.
    - c. INCLUDE UNIT DIMENSIONS AND WEIGHT.
    - d. INCLUDE CABINET MATERIAL, METAL THICKNESS, FINISHES, INSULATION, AND ACCESSORIES.
    - e. INCLUDE CERTIFIED FAN-PERFORMANCE CURVES WITH SYSTEM OPERATING CONDITIONS INDICATED.
    - f. INCLUDE CERTIFIED COIL-PERFORMANCE RATINGS WITH SYSTEM OPERATING CONDITIONS INDICATED.
    - g. INCLUDE FILTERS WITH PERFORMANCE CHARACTERISTICS.

- h. INCLUDE DAMPERS, INCLUDING HOUSINGS, LINKAGES, AND OPERATORS.
- i. WIRING DIAGRAMS: FOR POWER, SIGNAL, AND CONTROL WIRING.

14 CLOSEOUT SUBMITTALS

- A. APPROVED SHOP DRAWINGS: FOR ALL ROOF TOP UNITS AND RELATED COMPONENTS. PROVIDE IN OPERATION AND MAINTENANCE MANUAL.
- B. OPERATION AND MAINTENANCE DATA: FOR ROOF TOP UNITS TO INCLUDE IN OPERATION AND MAINTENANCE MANUALS.

15 WARRANTY

- A. PROVIDE ONE (1) YEAR MANUFACTURER'S WARRANTY ON UNIT.
- B. INCLUDE FOUR (4) YEAR EXTENDED COVERAGE OF REFRIGERATION COMPRESSORS.

16 EXTRA MATERIALS

- A. PROVIDE ONE (1) EXTRA SET OF FILTERS FOR EACH UNIT.

PART 2 - PRODUCTS

21 ACCEPTABLE MANUFACTURER

- A. TRANE, CARRIER, MCQUAY, YORK.

22 MANUFACTURED UNITS

- A. PROVIDE ROOF-MOUNTED UNITS HAVING ELECTRIC REFRIGERATION.
- B. UNIT SHALL BE SELF-CONTAINED, PACKAGED, FACTORY ASSEMBLED AND PREWIRED, CONSISTING OF CABINET AND FRAME, SUPPLY FAN, CONTROLS, AIR FILTERS, REFRIGERANT COOLING COIL AND COMPRESSOR, CONDENSER COIL, CONDENSER FAN, AND NATURAL GAS-FIRED BURNER SECTION.

23 FABRICATION

- A. CABINET: GALVANIZED STEEL WITH BAKED ENAMEL FINISH, ACCESS DOORS OR REMOVABLE ACCESS PANELS WITH QUICK FASTENERS. STRUCTURAL MEMBERS SHALL BE MINIMUM 1/4 GAGE WITH ACCESS DOORS OR REMOVABLE PANELS OF MINIMUM 1/8 GAGE.
- B. INSULATION: ONE INCH (1") THICK NEOPRENE COATED GLASS FIBER ON SURFACES WHERE CONDITIONED AIR IS HANDLED. PROTECT EDGES FROM EROSION.
- C. SUPPLY FAN: FORWARD CURVED CENTRIFUGAL TYPE, RESILIENTLY MOUNTED WITH V-BELT DRIVE, ADJUSTABLE VARIABLE PITCH MOTOR PULLEY AND RUBBER ISOLATED HINGE MOUNTED MOTOR. ISOLATE COMPLETE FAN ASSEMBLY.
- D. AIR FILTERS: TWO INCH (2") THICK GLASS FIBER DISPOSABLE. FILTERS, FARR MODEL 30/30 OR EQUAL. NEW FILTERS SHALL BE INSTALLED AT SUBSTANTIAL COMPLETION IN ADDITION TO THE EXTRA SET OF FILTERS PROVIDED.
- E. ROOF CURB: INSULATED, WEATHERPROOF TWELVE INCHES (12") HIGH GALVANIZED STEEL CHANNEL FRAME WITH GASKETS, NAILER STRIPS AND INTEGRAL SPRING ISOLATORS. FABRICATE CURB TO MATCH UNIT REQUIREMENTS AND FIT SLOPE OF ROOF. SEE SECTION 220548.

24 EVAPORATOR COIL

- A. PROVIDE COPPER TUBE ALUMINUM FIN COIL ASSEMBLY WITH GALVANIZED DRAIN PAN AND CONNECTION.
- B. PROVIDE THERMOSTATIC EXPANSION VALVES AND ALTERNATE ROW CIRCUITING.

25 COMPRESSOR

- A. PROVIDE HERMETIC COMPRESSOR, 1750 RPM RESILIENTLY MOUNTED WITH POSITIVE LUBRICATION, CRANKCASE HEATER-, HIGH- AND LOW-PRESSURE SAFETY CONTROLS, MOTOR OVERLOAD PROTECTION, SUCTION AND DISCHARGE SERVICE VALVES AND GAGE PORTS AND FILTER DRIER.
- B. PROVIDE STEP CAPACITY CONTROL BY CYCLING COMPRESSORS AND CYLINDER UNLOADING WHERE SCHEDULED.

26 CONDENSER

- A. PROVIDE COPPER TUBE ALUMINUM FIN COIL ASSEMBLY WITH SUBCOOLING ROWS.
- B. PROVIDE DIRECT DRIVE PROPELLER FANS, RESILIENTLY MOUNTED WITH FAN GUARD, MOTOR OVERLOAD PROTECTION, WIRED TO OPERATE WITH COMPRESSOR.

27 SUPPLY/RETURN CASING

- A. DAMPERS ECONOMIZER: PROVIDE LOW LEAKAGE OUTSIDE, RETURN AND RELIEF DAMPERS, NOT TO EXCEED 3% LEAKAGE AT 1 IN. W.G. PRESSURE DIFFERENTIAL WITH DAMPER OPERATOR AND CONTROL PACKAGE TO AUTOMATICALLY VARY OUTSIDE AIR QUANTITY. OUTSIDE AIR DAMPER SHALL FALL TO CLOSED POSITION. RELIEF DAMPERS MAY BE GRAVITY BALANCED.
- B. GASKETS: PROVIDE TIGHT FITTING DAMPERS WITH EDGE GASKETS, MAXIMUM LEAKAGE 3% AT PRESSURE DIFFERENTIAL.

28 OPERATING CONTROLS

- A. TIME DELAY RELAY SHALL PROVIDE A FOUR-MINUTE TIME DELAY BETWEEN STARTING OF THE FIRST AND SECOND COMPRESSOR.
- B. ANTISHORT CYCLE: A LOCKOUT TIME SHALL PROVIDE A MINIMUM OFF TIME OF FIVE MINUTES BETWEEN COMPRESSOR CYCLING.
- C. AUTOMATICALLY MODULATING, OUTDOOR AND RETURN AIR DAMPERS MAINTAIN PROPER ROOM TEMPERATURE INTO THE CONDITIONED SPACE. ADJUSTABLE MINIMUM POSITION CONTROL SHALL BE STANDARD. SPRING RETURN MOTOR. UPON LOSS OF POWER, DAMPERS WILL CLOSE SHUT. ECONOMIZERS SHALL OFFER THE ENERGY SAVING LOW-LEAK ECONOMIZER DAMPERS. THESE DAMPERS SHALL REDUCE DAMPER LEAKAGE DOWN TO 10 CFM/FT AT 1" WG DIFFERENTIAL STATIC PRESSURE OR LESS THAN 1% OF NOMINAL UNIT AIR FLOW ACCORDING TO THE AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA) LABORATORIES IN ACCORDANCE WITH AMCA STANDARD 575.
- D. CENTRAL CONTROL PANEL: PROVIDE COMBINED STANDARD THERMOSTAT SUBBASE WITH HEAT, COOL, OFF, FAN-AUTO-AND-ON POSITION WITH 3 STAGES OF COOLING AND 1 STAGE OF HEATING. FOUR SIGNAL LIGHTS INDICATE POWER, PILOT OUTAGE, CLOGGED FILTERS AND RESET RELAY. POWER SIGNALS SHOWS GREEN INDICATING POWER AVAILABLE TO UNIT. POWER SIGNALS SHOW RED INDICATING POWER OUTAGE. PILOT SIGNAL SHOWS RED WHEN THERE IS A HEATING MALFUNCTION. FILTER SIGNAL SHALL SHOW RED WHEN FILTERS CLOG AND NEED REPLACEMENT. RESET SIGNALS SHALL SHOW RED IF SYSTEM IS OUT ON ANY COOLING SAFETY CONTROLS. ECONOMIZER SHALL PROVIDE FIRST STAGE OF COOLING.
- E. CONTROL COOLING BY CYCLING COMPRESSORS AND CYLINDER UNLOADING.

29 GAS HEATING SECTION

- A. INDUCED-DRAFT COMBUSTION TYPE WITH ENERGY SAVING DIRECT-SPARK IGNITION SYSTEM AND REDUNDANT MAIN GAS VALVE.
- B. THE HEAT EXCHANGER SHALL BE OF THE TUBULAR-SECTION TYPE CONSTRUCTED OF A MINIMUM OF 20-GAUGE STEEL COATED WITH A NOMINAL 1.2 MIL ALUMINUM-SILICONE ALLOY FOR CORROSION RESISTANCE.
- C. BURNERS SHALL BE OF THE IN-SHOT TYPE CONSTRUCTED OF ALUMINUM-COATED STEEL.

PART 3 - EXECUTION

31 INSTALLATION

- A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. MOUNT UNITS ON FACTORY-BUILT ROOF MOUNTING FRAME PROVIDING WATERTIGHT ENCLOSURE TO PROTECT DUCTWORK AND UTILITY SERVICES. INSTALL ROOF MOUNTING FRAME LEVEL.
- C. INSTALL UNITS IN A MANNER TO PROVIDE THE REQUIRED CLEARANCES FOR OPERATION, SERVICE, AND MAINTENANCE OF UNITS.

32 DEMONSTRATION

- A. PROVIDE OWNER'S MAINTENANCE PERSONNEL TRAINING AS REQUIRED TO ADJUST, OPERATE, AND MAINTAIN UNITS.

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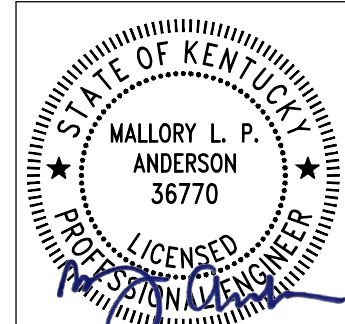
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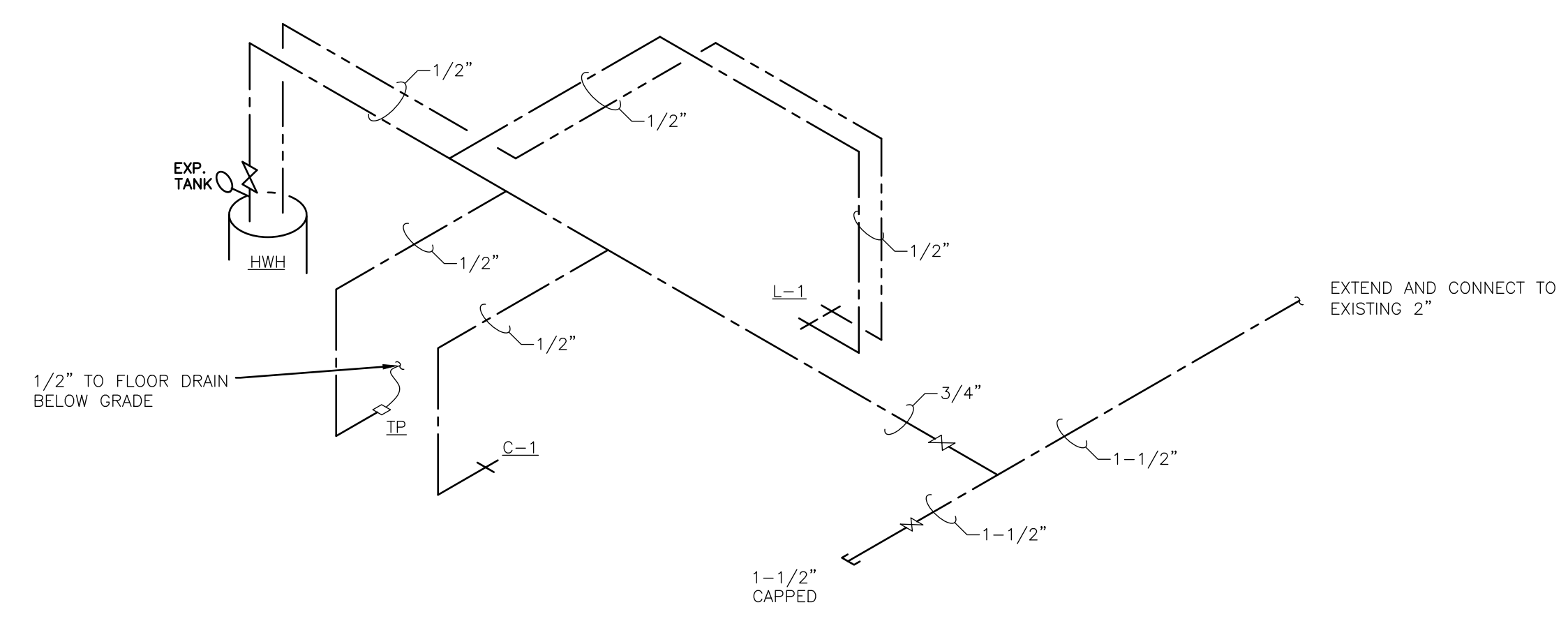
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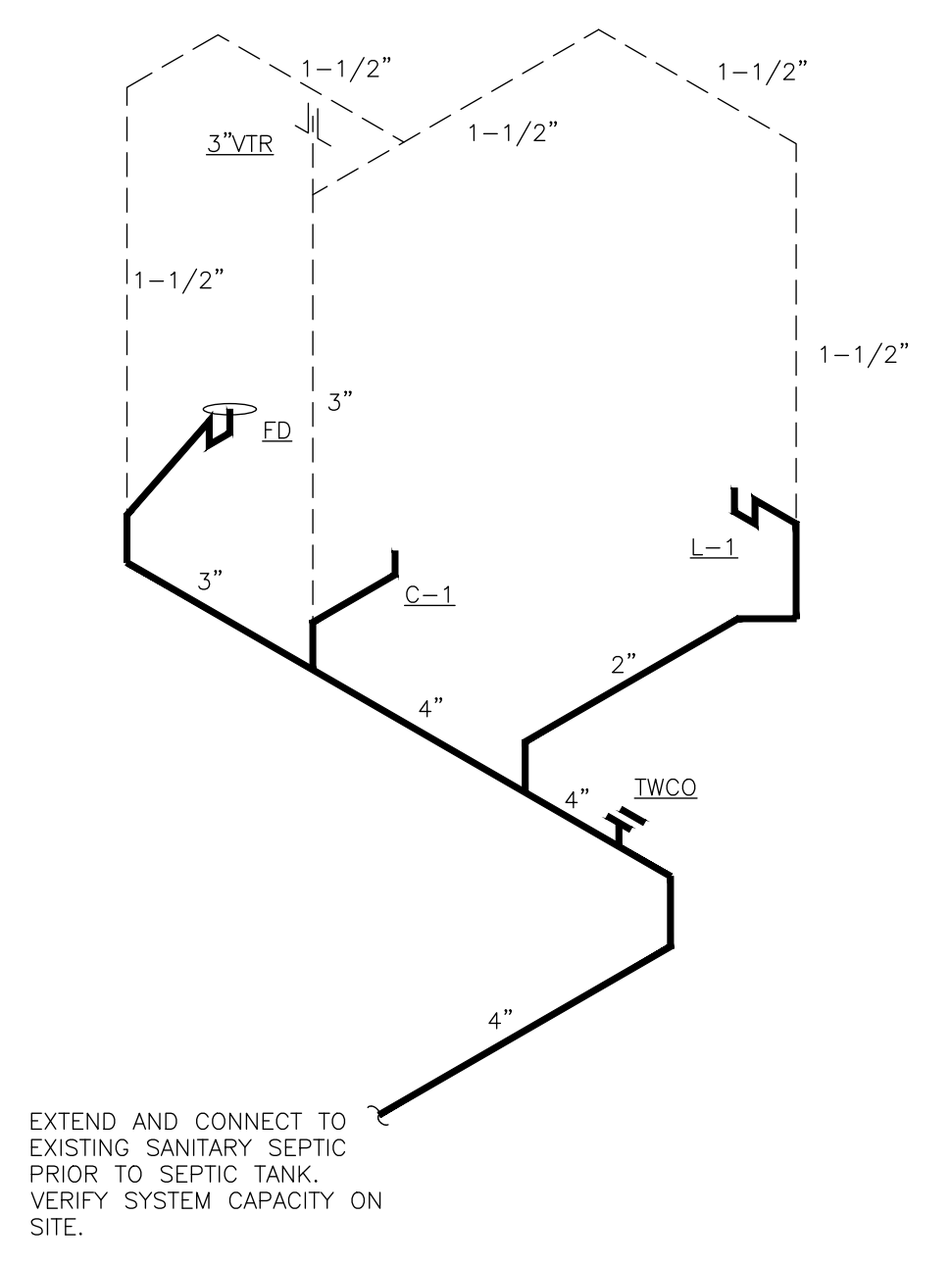
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**DOMESTIC WATER RISER DIAGRAM**  
NO SCALE

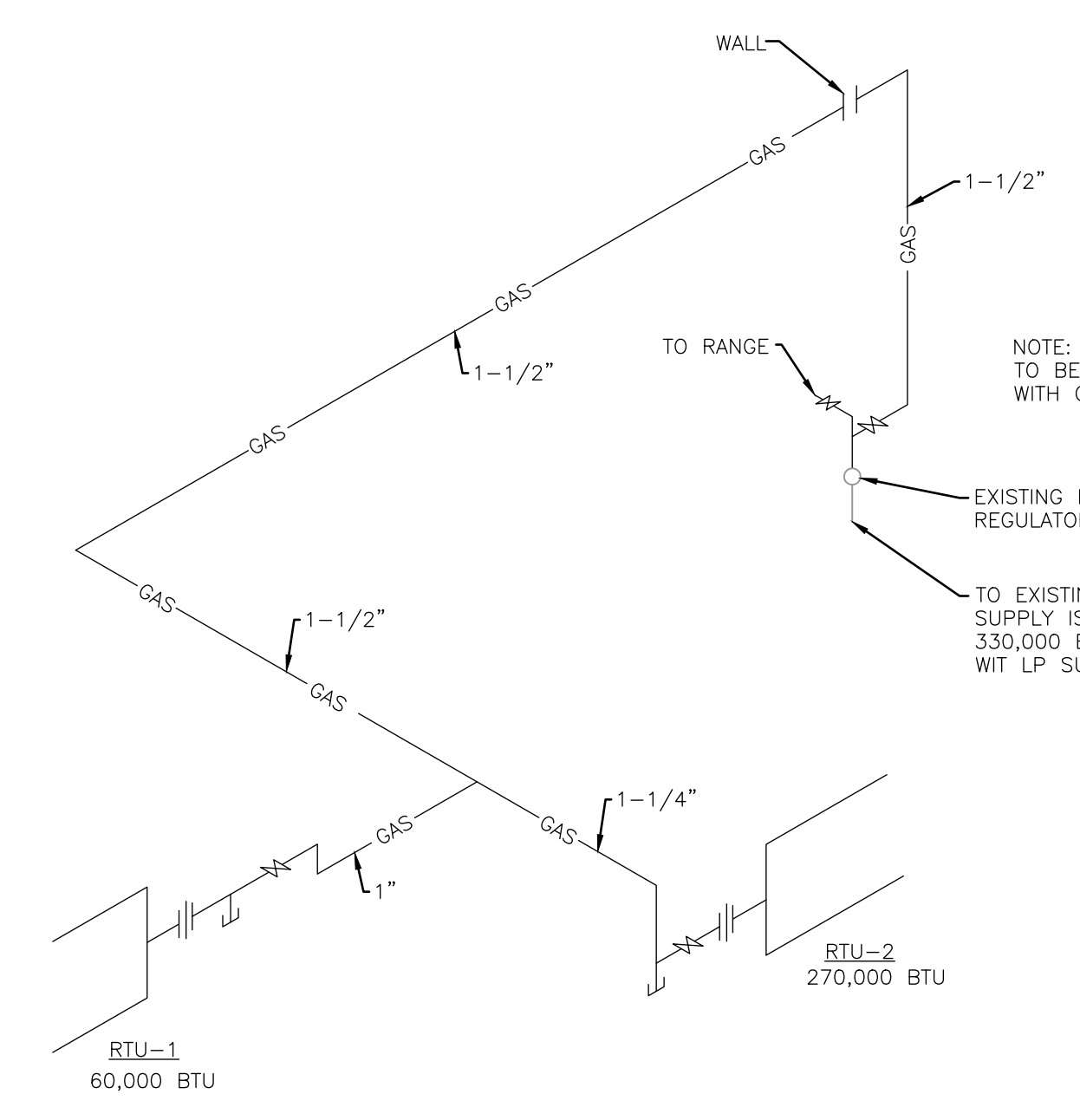


**WASTE AND VENT RISER DIAGRAM**  
NO SCALE

**PLUMBING FIXTURE SCHEDULE:**

FIXTURES AND EQUIPMENT SHALL BE EQUAL TO ITEMS DESCRIBED BELOW:

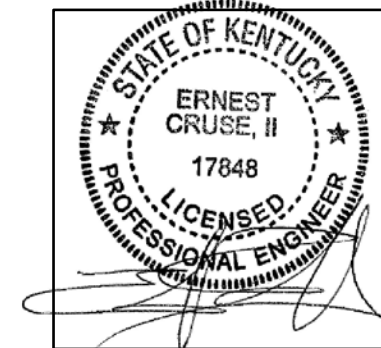
RPZ	3/4" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR WITH STRAINER- PROVIDE ADEQUATE DRAIN TO PREVENT FLOODING, IN THE EVENT DEVICE WERE TO DISCHARGE.
TWCO	4" PVC TWO WAY CLEANOUT - IF THIS OCCURS IN GRASS AREA, THERE SHALL BE A 18"X18"X6" THICK CONCRETE PAD INSTALLED AT GRADE BY GENERAL CONTRACTOR.
CO	4" PVC BODY CLEANOUT WITH ADJUSTABLE METAL TOP
C-1	WHITE ADA HEIGHT ELONGATED TOILET WITH WHITE OPEN FRONT, LESS COVER SEAT- WAX RING SEAL- BRASS CLOSET BOLTS, NUTS AND WASHERS- LOOSE KEY CHROME ANGLE COMPRESSION STOP - CHROME ESCUTCHEON- BRAIDED CLOSET SUPPLY - FLUSH MECHANISM ON "WIDE SIDE" OF ADA AREA
L-1	19"X17" CHINA WALL HUNG CONCEALED ARM LAVATORY- 1-1/4" GRID DRAIN - ADA SINGLE LEVER CHROME LAVATORY FAUCET - TEMPERING VALVE - STOP AND TRAP PROTECTOR KIT - PVC P TRAP - LOOSE KEY CHROME ANGLE COMPRESSION STOPS - FLOOR MOUNTED, CONCEALED ARM LAVATORY CARRIER - WALL HANGER ALSO
HWH	6 GALLON ELECTRIC WATER HEATER - THERMAL EXPANSION TANK - RELIEF VALVE AND CODE APPROVED DISCHARGE- METAL PAN WITH DRAIN - MANUFACTURED WATER HEATER SHELF SECURED TO STRUCTURE FOR SUPPORTING 100 #.
IP	PRIME RITE OR EQUAL TRAP PRIMER VALVE WITH LOCKING 8"X8" STAINLESS STEEL ACCESS PANEL FOR MAINTENANCE. EXTEND 1/2" PIPING BELOW FLOOR, TO CONNECT TO FLOOR DRAIN WITH WATER TIGHT CONNECTION.
ED	3" OR 4" PVC BODY FLOOR DRAIN WITH ADJUSTABLE METAL TOP



**GAS RISER DIAGRAM**  
NO SCALE

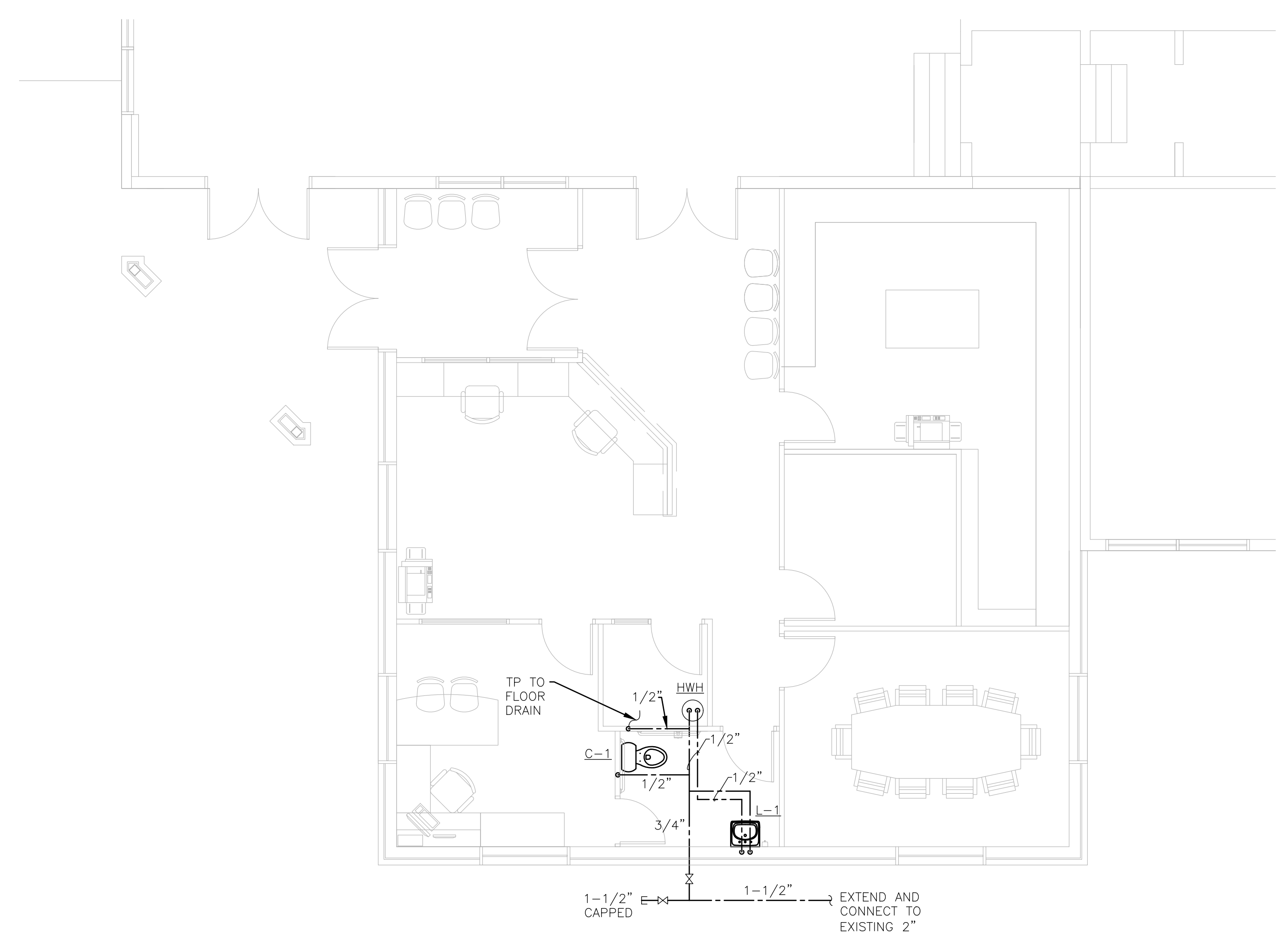
**PLUMBING SHEET NOTES:**

- ALL WORK SHALL BE PERFORMED UNDER CURRENT LAWS, RULES AND REGULATIONS IN PLACE AT TIME OF CONSTRUCTION. CONSIDER OSHA REGULATIONS AND ALL CODES FOR PROJECT CONSTRUCTION.
- ALL PERSONNEL SHALL BE LICENSED, IN JURISDICTION OF THE PROJECT, THIS INCLUDES CONTRACTOR'S LICENSING AND REGISTRATION.
- DRAWINGS FOR THE PROJECT ARE DIAGRAMMATIC IN NATURE, AND MAY NOT SHOW EVERY BEND, OFFSET OR FITTING REQUIRED FOR A COMPLETED PROJECT. CONTRACTOR SHALL INCLUDE ALL THESE ITEMS IN PROJECT PRICING.
- DO NOT SCALE DRAWINGS FOR ROUGH-INS, REFER TO DIMENSIONED DRAWINGS AND EQUIPMENT SPECIFICATION SHEETS FOR REVIEWING THOSE REQUIREMENTS.
- CONSULT PROJECT DOCUMENTS FOR EXACT LOCATIONS OF UTILITIES, EQUIPMENT AND DRAINS, SHOWN ON DRAWING.
- DURING THE COURSE OF THE PROJECT, ADVISE GENERAL CONTRACTOR AND ARCHITECT OF ANY FOUND DISCREPANCIES IN PROJECT PLANS, UTILITIES OR CONDITIONS.
- RESPECT THE INSTALLATION AND EQUIPMENT OF OTHER TRADES AND COORDINATE WITH THOSE PERSONS, TO ENSURE THAT THE NEEDS OF ALL TRADES ARE CONSIDERED DURING CONSTRUCTION.
- "RECORD DRAWINGS" REFLECTING ANY CHANGES IN THE PROJECT, SHALL BE DOCUMENTED AND "RED LINED" ON A SET OF DOCUMENTS, THAT SHALL BE KEPT ON SITE, FOR ALL CONCERNED PARTIES TO REVIEW AND COMMENT ON ANY CHANGES. AT THE END OF THE PROJECT, RECORD DRAWINGS OR AN ELECTRONIC COPY OF SAME, SHALL BE TURNED OVER TO OWNER FOR FUTURE REFERENCE.
- PROVIDE DEPARTMENT CERTIFICATE OR CONFIRMATION ON CORPORATE STATIONERY, OF FINAL PLUMBING INSPECTION, WITH DATE OF SAME AFFIXED.
- STANDARD MANUFACTURER'S WARRANTY SHALL APPLY, ALONG WITH CONTRACTOR'S WARRANTY OF LABOR AND MATERIALS SUPPLIED FOR THE PROJECT, FOR A PERIOD OF ONE YEAR, FROM DATE OF FINAL PLUMBING INSPECTION.
- ALL MATERIALS FOR PROJECT SHALL BE NEW AND OF BEST QUALITY, AS SPECIFIED.
- THERE SHALL BE NO PIPING OR SYSTEMS COVERED OR INSULATED, UNTIL SUCH TIME THAT THE SYSTEM IS PROVEN TO BE SOUND, LEAK-FREE AND INSPECTED, AS REQUIRED BY CODES.
- PLANS, COPIES, REVIEW FEES AND SUBMITTAL FOR GOVERNMENT APPROVALS, SHALL BE PERFORMED AND PAID FOR BY OTHERS OR GENERAL CONTRACTOR, AS IS APPLICABLE.
- PLUMBING CONTRACTOR SHALL PROVIDE REQUIRED PLUMBING PERMITS AND INSPECTIONS.
- FURNISH AND INSTALL, PER ALL CODES, ALL FIRE STOPPING OR SMOKE CAULKING OF ANY PENETRATIONS THAT OCCUR IN RATED STRUCTURES. PROVIDE SLEEVES AND INSTALLATION OF SAME AS NEEDED FOR THIS OPERATION TO MEET CODES.
- INSTALL ALL PIPING SYSTEMS, SO AS TO BE PROTECTED FROM FREEZING.
- ALL EXCAVATIONS FOR PROJECT PLUMBING SHALL BE DENATURED AS NECESSARY. DO NOT BACKFILL WITH FROZEN MATERIALS. EXCAVATIONS SHALL BE KEPT TO A MINIMUM, YET SHALL HAVE PROPER GRILLAGE FOR SUPPORT AND BACKFILLED SO AS TO PREVENT FUTURE SETTLEMENT OF THE AREA.
- BENEATH PAVED OR CONCRETE AREAS, EXCAVATIONS SHALL BE BACKFILLED PROPERLY TO SUBGRADE, AND MECHANICALLY TAMPED, AS NECESSARY.
- RESTORATION OF AREAS DISTURBED FOR PLUMBING CONSTRUCTION SHALL BE EQUAL TO OR BETTER, THAN CONDITIONS OF EXISTING, UPON ONSET OF CONSTRUCTION. COORDINATE THE EXTENT OF THIS RESTORATION, WITH GENERAL CONTRACTOR, AS TO ACTUAL LIMITS TO BE PERFORMED BY PLUMBING CONTRACTOR.
- CONTRACTOR REQUIRED SAME, SHALL SCRIBE CUT, BREAK AND REMOVE CONCRETE OR PAYMENT FOR INSTALLATION OF NEW PIPING OR SYSTEMS. MINIMIZE CROSS CUTS IN TRENCH AREA.
- COORDINATE SCRIBE CUT WITH GENERAL CONTRACTOR TO ALLOW FOR POSSIBILITY OF OTHER TRADE SHARING CUTS, AND/OR EXCAVATIONS FOR UTILITIES.
- PERSONNEL SHALL CONDUCT THEMSELVES PROFESSIONALLY AT ALL TIMES, AS THE PROJECT IS LOCATED IN VIEW AND IN CONTACT WITH THE PUBLIC AT A RELIGIOUS SCHOOL, CONSTRUCTION PERSONNEL SHALL LIMIT THEIR PRESENCE TO THE AREA UNDER CONSTRUCTION AND AVOID DISRUPTION OF DAY TO DAY SCHOOL ACTIVITIES.
- COORDINATE ANY UTILITIES INTERRUPTIONS WITH SCHOOL MAINTENANCE PERSONNEL. BE AWARE AND ADVISED OF LOCATIONS AND CONDITIONS OF ALL VALVES THAT ARE PERTINENT TO THE SYSTEMS YOU ARE CONNECTING TO FOR NEW UTILITIES FOR THE PROJECT.
- IF ROCK MAY BE ENCOUNTERED DURING EXCAVATIONS, CONSULT WITH GENERAL CONTRACTOR AS TO THE METHOD AND COSTS OF REMOVAL AND DISPOSAL OF SAME.
- SPOILS FROM EXCAVATIONS SHALL BE STOCKPILED ON SITE IN AREA DESIGNATED FOR THE DISPOSAL OF THE SPOILS, OR PLACED IN DUMPSTER ON SITE FOR HANDLING AND DISPOSAL BY OTHERS.
- THERE SHALL BE NO CUTTING OR ALTERATIONS TO STRUCTURAL MEMBERS, WITH OUT PRIOR CONSULTATION WITH AND WRITTEN CONSENT OF THE ARCHITECT/ENGINEER.
- CORE DRILLING OF OPENINGS SHALL BE AT A MINIMUM, SO AS TO ALLOW FOR PROPER FIRE CAULK, SMOKE CAULK OR FIRE STOPPING OPERATIONS.
- CONTRACTOR IS TO DISPOSE OF HIS GENERATED WASTE, IN THE PROVIDED DUMPSTER, AS ACCUMULATED AND/OR AT THE END OF THE DAY.
- PROVIDE LOCKING ACCESS PANELS, FOR VALVES OR MAINTENANCE, MATCHING FIRE RATING OF STRUCTURE IN WHICH THEY ARE PROPOSED TO BE INSTALLED.
- PROVIDE HANGERS AND SUPPORTS TO ADHERE TO MANUFACTURER'S RECOMMENDATIONS AND CODES, COMPATIBLE WITH THE MATERIAL THAT IS TO BE SUPPORTED.
- ALL PIPING SHALL BE INSTALLED AND SUPPORTED, SO THAT THERE IS NO STRAIN ON SAME, AND SHALL BE PLUMB, TRUE AND STRAIGHT. CONCEAL PIPING WHERE POSSIBLE, UNLESS OTHERWISE NOTED.
- GENERAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL CHASES, SOFFITS OR COVERS AS REQUIRED.
- PROVIDE DIELECTRIC UNIONS FOR CONNECTIONS OF DISSIMILAR METALS.
- SUPPORT BLOCKING FOR FIXTURE HANGERS SHALL BE INSTALLED BY GENERAL CONTRACTOR, WITH DIRECTIONS AND COORDINATION OF PLUMBING CONTRACTOR.
- VERIFY CONDITIONS, LOCATION AND INVERT OF EXISTING PIPING THAT IS PROPOSED TO RECEIVE WASTE FROM THE NEW SYSTEMS. PRIOR TO ANY CONSTRUCTION, LOCATE AND KNOW VALUING OF EXISTING WATER SYSTEM, PRIOR TO COMMENCEMENT OF CONNECTION OF NEW WATER SERVICE PIPING. ADVISE GENERAL CONTRACTOR AND ARCHITECT OF ANY UNFORESEEN OR UNKNOWN PROBLEMS THAT MAY BE FOUND.
- SYSTEM VALVES SHALL BE COMPATIBLE WITH SELECTED WATER PIPING SYSTEM, AND INSTALLED IN ACCESSIBLE LOCATIONS. PROVIDE 1" BRASS VALVE TAGS WITH BEADED CHAIN TO ATTACH SAME. CREATE VALVE LOCATION CHART FOR OWNER, AS A PART OF RECORD DRAWINGS PACKAGE, UPON COMPLETION.
- WATER PIPE AND FTGS, SHALL MEET DESIGN CRITERIA AND ADHERE TO ALL CODES AND REGULATIONS.
- FIELD VERIFY POINT OF CONNECTION, PRIOR TO CONSTRUCTION.
- NON-METALLIC DOMESTIC WATER SERVICE SHALL HAVE 16 AWG TRACER WIRE INTO METERE RULL AND 2 FT. COILED ABOVE GRADE AT WATER SERVICE ENTRY, TO ALLOW FOR UTILITY TRACING. RECOMMENDED COVER FOR EXTERIOR WATER PIPING IS 36" COVER.
- FOR THE PURPOSE OF THIS PROJECT, DOMESTIC WATER PIPING BELOW GRADE SHALL BE SCHEDULE 80 CPVC SOLVENT WELD - PEX - AQUA PEX - WIRSDO - ZURN PEX -OR HOPE, ALL ADHERING TO APPLICABLE CODES.
- VALVES AND ANY SOLDER ON PROJECT, SHALL BE "LEAD -FREE", PER ALL REGULATIONS.
- PERFORM HYDROSTATIC TESTING OF DOMESTIC WATER SYSTEMS, PRIOR TO COVERING OR INSULATING SAME.
- SANITIZE WATER PIPING SYSTEMS, PRIOR TO COMMISSIONING TO SERVICE. ENSURE THAT SANITIZING AGENTS ARE PROPERLY FLUSHED FROM THE SYSTEMS AFTER USE.
- ALL WATER PIPING SHALL HAVE HOT WATER ON THE LEFT AND COLD WATER ON THE RIGHT.
- WATER PIPING SHALL BE INSULATED WITH 1" FLEXIBLE WALL INSULATION, WITH MAXIMUM FLAME SPREAD OF 25, MEETING ALL CODES AND SPECIFICATIONS.
- IF PEX PIPING IS USED FOR WATER, PROVIDE COPPER PRE-FORMED SUPPLY 90 DEGREE BEND, TO PROJECT THROUGH WALL, FOR FUTURE STOP CONNECTION. SECURE TO PREVENT MOVEMENT OF SUPPLY STUB OUT.
- PEX PIPING SHALL BE 36" MAXIMUM FOR FIXTURE BRANCHES ONLY, WHEN UTILIZING 1/2" PIPING AND FITTINGS.
- DO NOT INSTALL ANY WATER OR WASTE PIPING OVERHEAD OF ANY ELECTRICAL EQUIPMENT IF POSSIBLE TO AVOID THAT ROUTING.
- SANITARY WASTE AND VENT SYSTEM SHALL BE CONSTRUCTED AND INSTALLED, PER ALL CODES AND REGULATIONS AND DESIGN CRITERIA. BASIS OF DESIGN FOR THIS PROJECT IS SCH. 40, DWV, SOLVENT WELD PVC PIPE AND FITTINGS SYSTEM, ADHERING TO ALL CODES, RULES AND REGULATIONS. VERIFY INVERT AT POINTS OF CONNECTIONS, PRIOR TO STARTING CONSTRUCTION.
- NO NON-METALLIC PIPING SHALL BE LOCATED WITHIN PLENUM RATED SPACES. IF THIS SHOULD OCCUR, THERE SHALL BE THE NEED TO INSTALL FIRE RATED INSULATION AND WRAP, TO MEET ALL CODES.
- NEW HVAC EQUIPMENT SHALL REQUIRE ADDITIONAL LP GAS PIPING. CONTRACTOR MUST BE CERTIFIED AND LICENSED FOR THAT SYSTEM INSTALLATION, FOLLOWING ALL RULES AND REGULATIONS.
- CONFIRM WITH CURRENT LP SUPPLIER, THAT EXISTING PIPING AND LP REGULATOR FROM TANK TO BUILDING, IN AREA OF THE KITCHEN IS ADEQUATE TO SUPPORT ADDED LP GAS LOAD OF 3350,000 BTU FOR NEW HVAC EQUIPMENT. IF FOUND TO BE INADEQUATE, COORDINATE WITH LP SUPPLIER FOR INSTALLATION OF A NEW SUPPLY LINE FROM TANK TO THE BUILDING AT CURRENT OR NEW REGULATOR LOCATION.
- INTERIOR LP GAS PIPING SHALL BE COORDINATED WITH GENERAL CONTRACTOR AS TO ACTUAL ROUTING.
- POINT OF CONNECTION FOR NEW LP GAS PIPING SHALL BE ON THE OUTLET SIDE OF THE REGULATOR THAT IS IN PLACE AT THIS TIME NEAR KITCHEN. INTENTIONS OF NEW LP GAS PIPING IS TO BE OUNCES DELIVERY PRESSURE, TO THE NEW HVAC EQUIPMENT.
- ALL GAS CONNECTIONS SHALL BE PROVIDED WITH A LINE SIZE DRIP LEG AT POINT OF CONNECTION AND ANAGA APPROVED GAS VALVE.
- ALL EXPOSED GAS PIPING SHALL BE PAINTED FOR CORROSION PROTECTION PER ALL CODES AND REGULATIONS.
- THERE SHALL BE NO UNIONS, IN ANY PIPING SYSTEMS, THAT ARE INSTALLED IN A CONCEALED MANNER.
- ALL GAS PIPING TO TESTED TO BE PROVEN SOUND AND LEAK FREE.
- LP GAS PIPING SHALL BE SCHEDULE 40 BLACK PIPE WITH 125 # BLACK IRON MALLEABLE FITTINGS.
- USE A NON-HARDENED THREAD SEALANT, FOR ALL THREADED CONNECTIONS.
- SUPPORT PIPING AS IS REQUIRED BY MANUFACTURER'S AND ALL CODES.
- PROVIDE PVC SLEEVES, WITH SILICONE SEALED ENDS, AT ALL LP GAS PIPING WALL PENETRATIONS, SO AS TO BE SEALED WATER TIGHT.
- NEW 6" SANITARY SEWER ON EXTERIOR SHALL CONNECT TO EXISTING SEPTIC SYSTEM. LOCATE INVERT OF PROPOSED POINT OF CONNECTION, PRIOR TO CONSTRUCTION. THIS PIPING MAY BE PVC SDR 35 PIPE AND FITTINGS, AS LONG AS THE INSTALLATION ADHERES TO ALL CODES.
- EXACT ROUTING TO AVOID UNNECESSARY RESTORATIONS IS TO BE CONSIDERED, IN PLANNING ROUTE TO EXISTING.
- VERIFY WITH FACILITIES SEPTIC SYSTEM MAINTENANCE PERSONNEL, THAT EXISTING SEPTIC SYSTEM IN PLACE, IS ADEQUATE TO ACCEPT ADDITIONAL WASTE, FROM PROPOSED NEW PLUMBING. ADVISE GENERAL CONTRACTOR AND ARCHITECT, OF ANY INEFFICIENCIES ENCOUNTERED OR DISCOVERED IN EXISTING SYSTEMS PROPOSED TO SERVE NEW ADDITION PLUMBING.

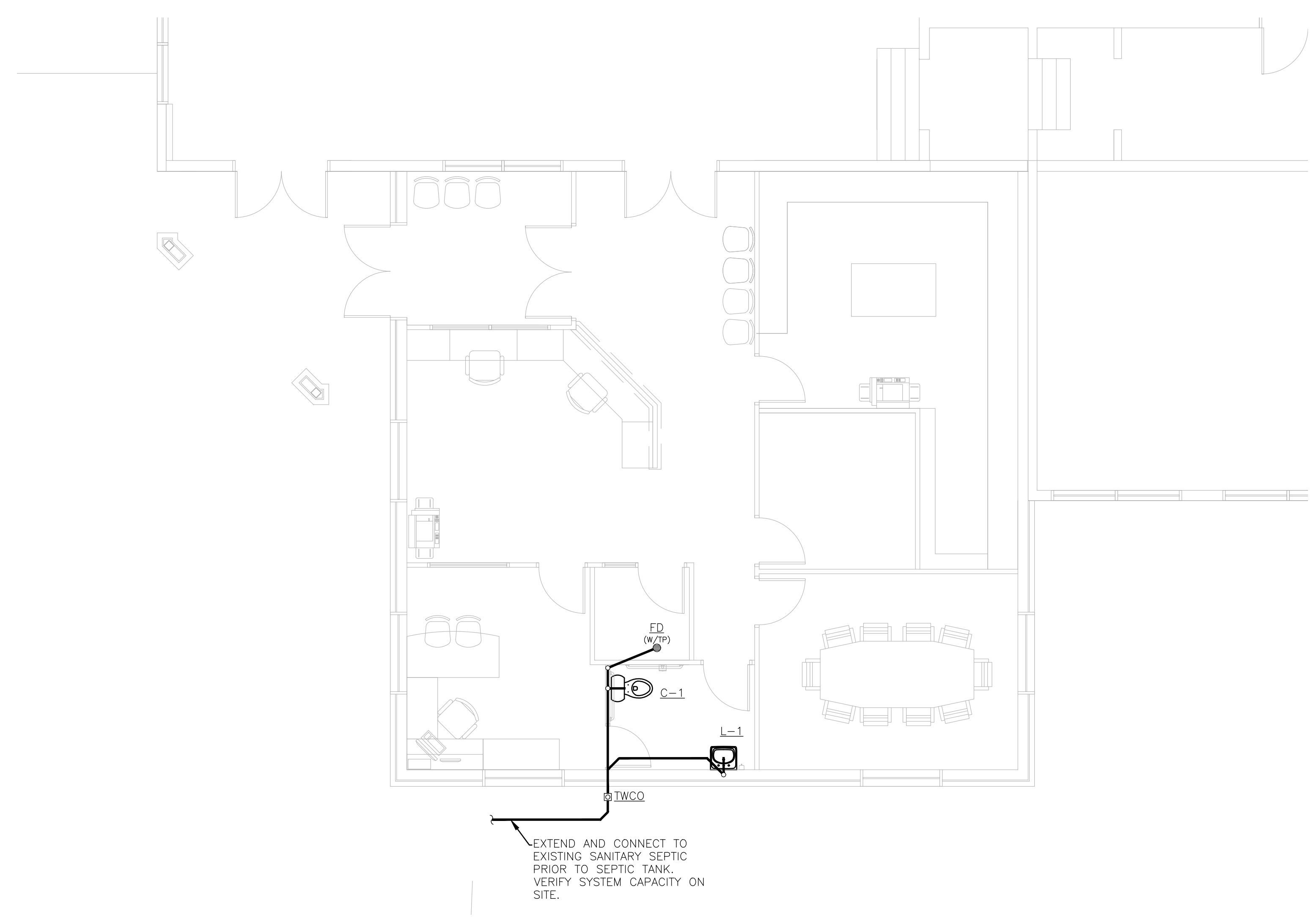


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**01** PLUMBING DOMESTIC WATER FLOOR PLAN  
SCALE: 3/16" = 1'-0"



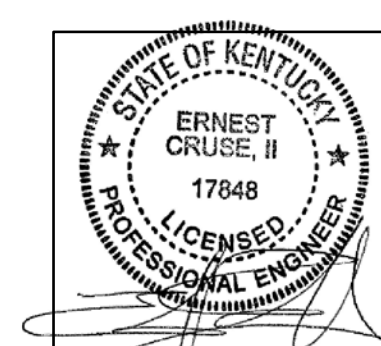
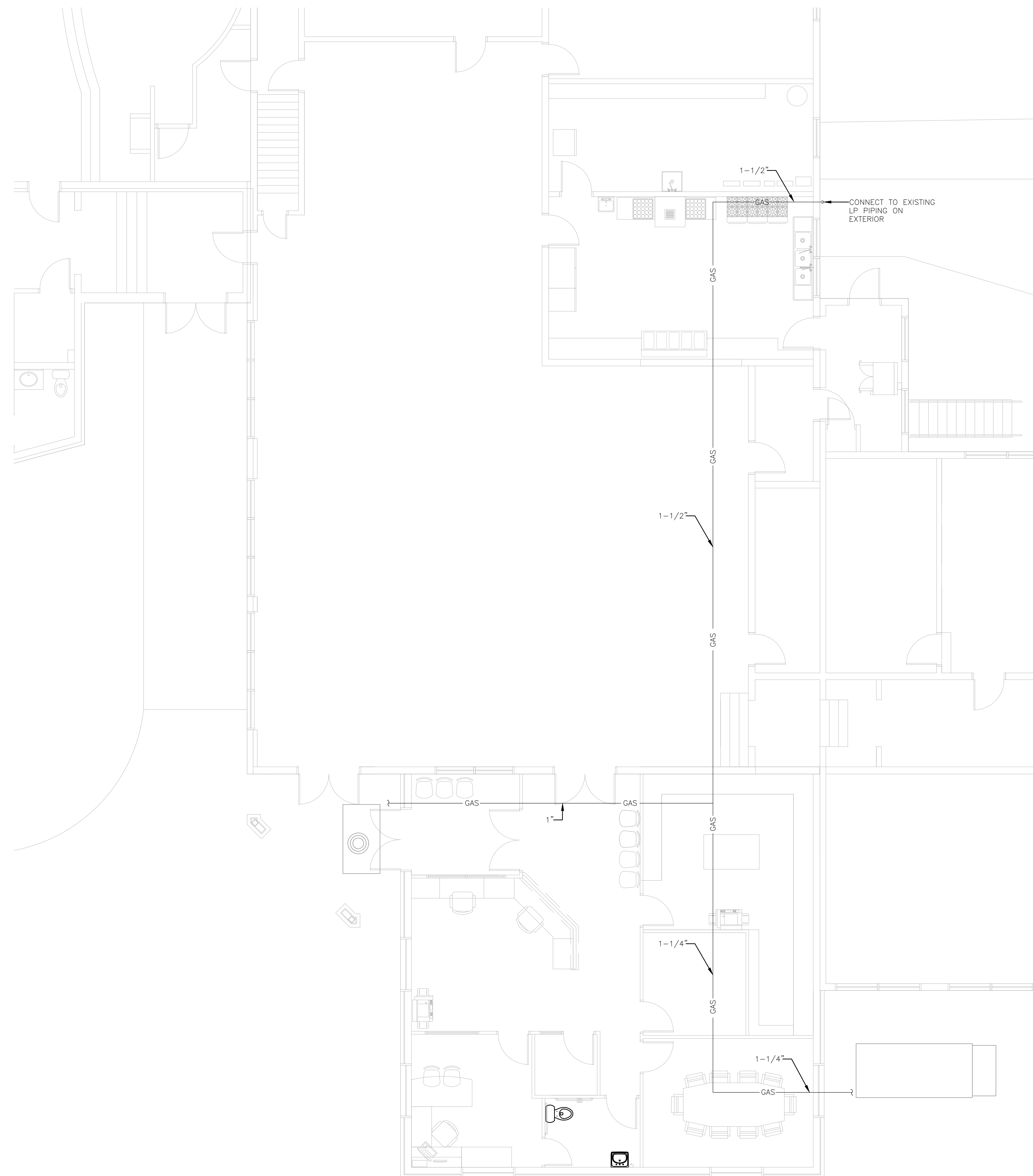
**01** PLUMBING WASTE AND VENT FLOOR PLAN  
SCALE: 3/16" = 1'-0"



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















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**01 PLUMBING GAS FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

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### DEMOLITION SYMBOL LEGEND

-  DATA/TELEPHONE OUTLET
-  ABOVE COUNTER GROUND FAULT RECEPTACLE
-  EXISTING EXTERIOR CONDENSING UNIT TO BE REMOVED/REPLACED COMPLETE
-  EXISTING INTERIOR AIR HANDLING UNIT TO BE REMOVED/REPLACED COMPLETE
-  LIGHT SWITCH
-  SURFACE CONDUIT/WIRE MOLD FEED TO DEVICE
-  DUPLEX RECEPTACLE
-  CATV OUTLET
-  CEILING MOUNTED SECURITY CAMERA
-  WIRELESS ACCESS POINT
-  ELECTRICAL DISCONNECT SWITCH FOR EQUIPMENT
-  EMERGENCY LIGHT
-  EXIST EXIT SIGN
-  RECESSED FLUORESCENT FIXTURE
-  SURFACE LIGHTING FIXTURE
-  CEILING SPEAKER
-  FIRE ALARM HORN AV UNIT
-  FIRE ALARM MANUAL PULL STATION
-  CEILING SMOKE DETECTOR
-  INDICATES DEVICE TO REMAIN ON SAME EXISTING CIRCUIT AND BE REPLACED WITH NEW DEVICE OR REMAIN AS CURRENTLY WIRED IN THE CASE OF LOW VOLTAGE DEVICES SUCH AS SPEAKERS FIRE ALARM DEVICES

### GENERAL ELECTRICAL DEMOLITION NOTES:

1. ALL ELECTRICAL DEMOLITION SHALL FOLLOW APPLICABLE GUIDELINES PER THE NATIONAL ELECTRICAL CODE.
2. IT IS THE INTENT THAT THE EXISTING ELECTRICAL EQUIPMENT INDICATED IS TO BE REMOVED OR REPLACED. REMOVE ALL ELECTRICAL EQUIPMENT AND ASSOCIATED CONDUITS AND WIRING UNLESS OTHERWISE NOTED THAT INTERFERE WITH THE NEW PROPOSED RENOVATION AND AS INDICATED. FIELD VERIFY ALL FINAL REQUIREMENTS.
3. CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS. IT SHOULD BE UNDERSTOOD THAT ONLY THE PRIMARY ITEMS ARE SHOWN ON THE DEMOTION PLAN. THE EXISTING WIRING AND CONDUIT RUNS ARE PARTIALLY SHOWN BUT PROVISIONS SHALL BE MADE IN THE CONTRACTORS BID TO COVER REMOVAL OR REWORK AS REQUIRED ACCORDING TO THE DEMOLITION AND NEW WORK PLANS.
4. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL MATERIALS. COORDINATE WITH THE GENERAL CONTRACTOR FOR ON SITE DUMPSTER.
5. WHERE AN EXISTING SYSTEM NOT INDICATED ON THE PLAN IS AFFECTED BY DEMOLITION OF THE DEVICES AND COMPONENTS SHOWN, CONTRACTOR SHALL MAKE PROVISIONS TO PRESERVE THESE EXISTING SYSTEMS AND DISCUSS THE DETERMINATION OF THE SYSTEM WITH THE PROJECT ARCHITECT AND OR ENGINEER PRIOR TO DEMOLITION.
6. WHERE DEMOLITION OF AN EXISTING ELECTRICAL DEVICE MAY AFFECT THE EXISTING OR NEW FINISHES IN AN ADJACENT AREA ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR PATCHING AND REPAIRING THE EXISTING SURFACE AS REQUIRED TO MATCH THE NEW FINISHES.
7. THE INTENT IS TO RE-USE THE EXISTING POWER DISTRIBUTION PANELS IN THE RENOVATION SPACES. CONTRACTOR SHALL KEEP TRACK OF CIRCUITS MADE AVAILABLE AS A RESULT OF DEMOLITION TO BE REUSED IN THE NEW WORK PLANS IF APPLICABLE AND RE-LABEL ANY AFFECTED EXISTING PANEL CIRCUIT DIRECTORIES AS NEEDED TO REFLECT THE FINAL CONFIGURATIONS.
8. WHILE NOT SPECIFICALLY SHOWN ON THE DEMOLITION PLANS, IT IS THE INTENT THAT THE CONTRACTOR REMOVE AND DISPOSE OF ALL EXISTING NON- FUNCTIONAL LOW VOLTAGE WIRING IN THE AFFECTED AREAS COMPLETELY. ANY EXISTING SYSTEMS THAT MAY BE AFFECTED WHICH ARE INTENDED TO REMAIN SHALL BE PRESERVED. THIS INCLUDES SPECIFICALLY THE FIRE ALARM WIRING AND THE SOUND SYSTEM WIRING THAT MAY AFFECT THE FUNCTION OF THE REST OF THE FACILITY.
9. IT SHOULD BE UNDERSTOOD THAT THIS IS A FUNCTIONING FACILITY AND ANY DEMOLITION OF AN EXISTING DEVICE OR SYSTEM THAT MAY AFFECT AREAS NOT IN THE SCOPE SHOULD BE COORDINATED WITH THE OCCUPANTS TO ENSURE THAT THERE IS NO DISRUPTION TO THE FACILITY. WHEN IN DOUBT, DO NOT REMOVE OR OTHERWISE AFFECT ANYTHING THAT YOU ARE NOT CERTAIN WHAT THE RAMIFICATIONS WILL BE TO THE FACILITY. COORDINATE ANY NECESSARY SHUT DOWNS OR EQUIPMENT REMOVAL WITH THE FACILITY PRIOR TO ANY DEMOLITION OCCURRING.

### ELECTRICAL DEMOLITION SHEET NOTES

1. REMOVE EXISTING POWER CONNECTIONS TO HVAC EQUIPMENT TO BE DEMOLISHED COMPLETE. UPDATE PANEL CIRCUIT DIRECTORY AND PRESERVE PANEL SPACE FOR NEW BREAKER(S) TO SERVE NEW PROPOSED EQUIPMENT. REFER TO NEW WORK PLAN.
2. EXISTING FIRE ALARM EQUIPMENT TO REMAIN IN PLACE. PRESERVE AS REQUIRED DURING DEMOLITION.
3. EXISTING SWITCHES TO REMAIN AND BE REPLACED IN PLACE IN NEW WORK PLAN. FIELD VERIFY AND INTERCEPT CIRCUIT(S) ABOVE CEILING TO RE-USE IN NEW WORK PLAN TO SERVE NEW LIGHTING IN THE SPACE.
4. REMOVE EXISTING CEILING SPEAKERS AND PRESERVE WIRING FOR USE WITH NEW COMPATIBLE REPLACEMENT SPEAKERS IN SAME LOCATION.
5. EXISTING CAMERAS AND LOW VOLTAGE EQUIPMENT TO BE REMOVED AND RE-INSTALLED AS REQUIRED IN NEW WORK PLAN. FIELD VERIFY AND COORDINATE WITH SECURITY SYSTEM VENDOR AND I.T. PERSONNEL AS REQUIRED.
6. EXISTING IN WALL RECEPTACLES ARE TO BE REPLACED WITH NEW DEVICES. RE-USE EXISTING CIRCUIT WIRING IF POSSIBLE IF NOT THEN REPLACE EXISTING WIRING BACK TO NEAREST ACCESSIBLE JUNCTION POINT.
7. REMOVE ALL EXISTING SURFACE CONDUIT SERVED RECEPTACLES. PRESERVE CIRCUIT FOR POSSIBLE RE-USE IN NEW CONSTRUCTION TO SERVE NEW REPLACEMENT DEVICES AS NEEDED. UPDATE ANY AFFECTED PANEL CIRCUIT DIRECTORY TO INDICATE ACTUAL LOADS SERVED WHEN COMPLETE.
8. REMOVE EXISTING SWITCH SERVING STORAGE ROOM LIGHT. PROVIDE NEW BLANK CLOSURE PLATE WHERE FORMER SWITCH IS LOCATED IN NEW CONSTRUCTION PHASE.
9. HVAC WATER LOOP CONTROL POINT. COORDINATE WITH MECHANICAL CONTRACTOR FOR DEMOLITION AND DETERMINATION OF ONGOING USAGE OF DEVICE.
10. REMOVE EXISTING SECURITY ACCESS SYSTEM AND PRESERVE FOR RE-USE IN NEW WORK PLAN. COORDINATE WITH OWNER'S SECURITY ACCESS COMPANY AS REQUIRED TO REMOVE AND RE-INSTALL SYSTEM.
11. REMOVE EXISTING WIFI EQUIPMENT, CAMERA AND LIGHT FIXTURE COMPLETE. TURN OVER TO OWNER FOR USE IN FUTURE WORK. FIELD VERIFY EXISTING CONDUIT ROUTES TO REMOVE COMPLETE. FIELD VERIFY FINAL REQUIREMENTS.

**NOTE:** ALL DIMENSIONS ARE TO FACE OF STUD

**NOTE:** GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL SUB TRADES AND REQUIREMENTS BY OWNER

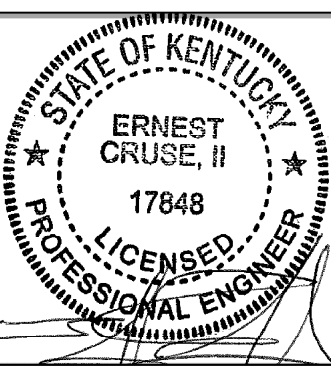
**NOTE:** ELECTRICAL, HVAC AND PLUMBING TO BE RELOCATED PER FEDERAL, STATE AND LOCAL CODES. GENERAL CONTRACTOR TO COORDINATE.

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MASTERPLANNING

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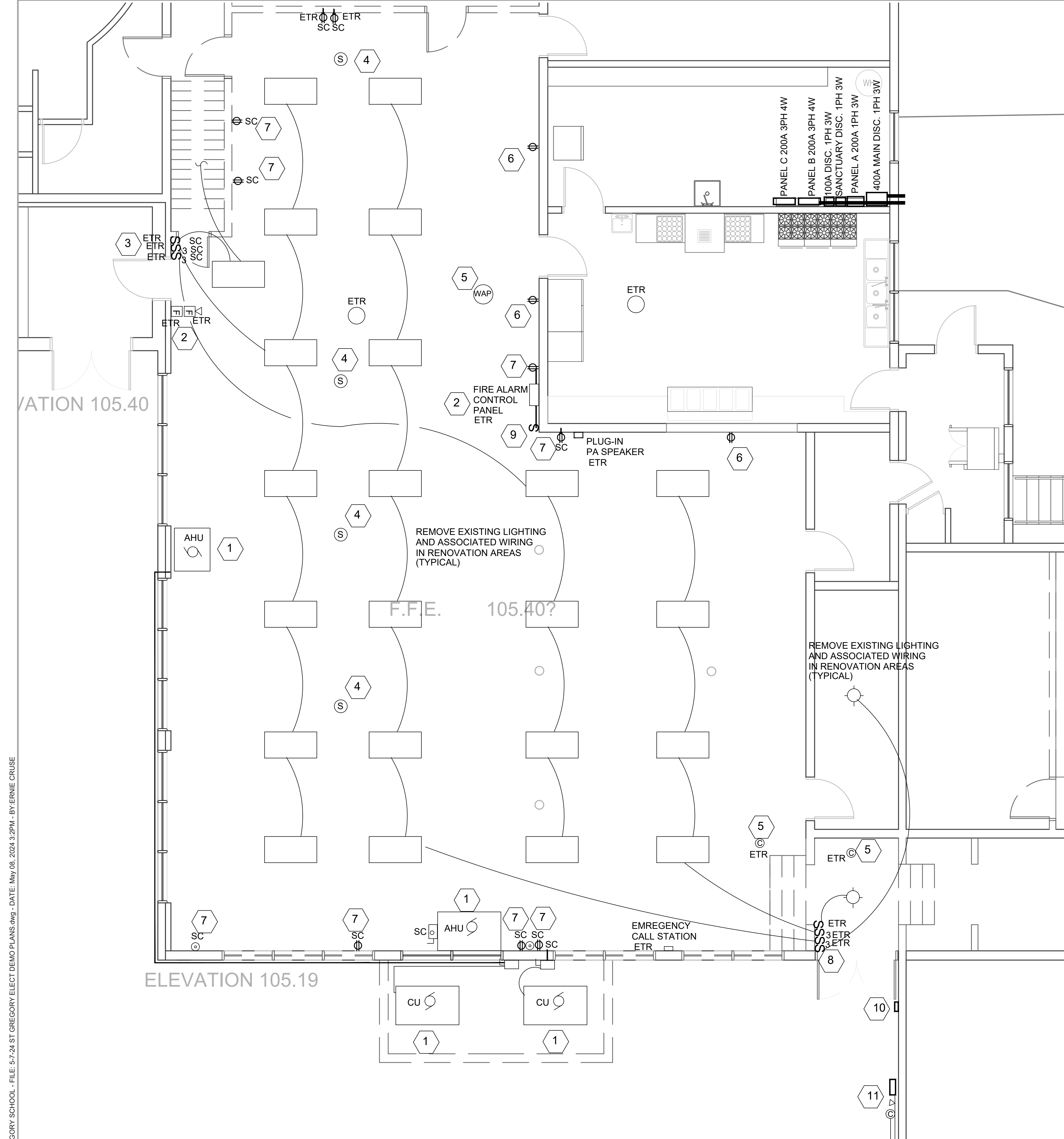
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SCHOOL OFFICE FLOOR PLAN

ED1.0



# 01 ELECTRIC DEMO PLAN

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



EXISTING PANEL SCHEDULE FOR PANEL "A"  
120/240V 1 PH 3W 200 AMP

EXISTING PANEL SCHEDULE FOR PANEL "B"  
120/240V 3 PH 4W 200 AMP

EXISTING PANEL SCHEDULE FOR PANEL "C"  
120/240V 3 PH 4W 200 AMP

20A 1P - CONFESSIONAL LIGHTS	50A 2P - COND. UNIT FRONT OF SCHOOL
20A 1P- SANCTUARY LIGHTS	20A 1P - KITCHEN COUNTER RECEPTS
20A 1P - CHURCH PLUGS	20A 1P - CONF. EXH FAN
20A 1P - ATTIC FANS	20A 1P - UNKNOWN
20A 1P - ALTER LIGHTS	20A 1P - UNKNOWN
20A 1P - CHURCH LIGHTS	20A 1P - UNKNOWN
20A 1P - 7TH AND 8TH GRADE LIGHTS	20A 1P - UNKNOWN
20A 1P - ORGAN POWER	20A 1P - FREEZER
20A 2P - LIGHTS IN CHURCH WINDOW	20A 1P - CONVENT
20A 1P - UPSTAIRS BATHROOM	20A 1P - HALLWAY LIGHTS
20A 1P - 1ST GRADE PLUGS	20A 1P - KITCHEN LIGHTS
20A 1P - STAINLESS STEEL FREEZER	20A 1P - FIRE ALARM PANEL
20A 1P - 2ND GRADE PLUGS	20A 1P - UNKNOWN
20A 2P - UNKNOWN	20A 1P - UNKNOWN
20A 1P - UNKNOWN	20A 1P - CONVENT ROOM LIGHTS
20A 1P - CAFETERIA LIGHTING	20A 1P - PLUGS
20A 1P - UNKNOWN	20A 1P - FRIGERATOR
20A 1P - PRESCHOOL RECEPTACLES	20A 1P - DISHWASHER
20A 1P - DORIS OFFICE	20A 1P - UNKNOWN
20A 1P - STOVE FAN	20A 1P - CONVENT PLUGS
20A 1P - ICE MACHINE/POPCORN	20A 1P - CONVENT WASHER
	20A 1P - AHU IN FRONT OF SCHOOL
	20A 1P - UNKNOWN
	30A 2P - TRUCK
	40A 2P - A/C PRESCHOOL
	50A 2P - DISHWASHER BOOSTER HTR

50A 2P - COND UNIT 1ST GRADE	15A 1P - UNKNOWN
20A 2P - COND UNIT 7TH AND 8TH GRADE	20A 1P - UNKNOWN
20A 1P - POPCORN POPPER	20A 1P - UNKNOWN
40A 2P - COND UNIT PRE K	20A 1P - UNKNOWN
50A 2P - UNKNOWN	100A 3P - UNIT #1 10 TON A/C AHU
SPACE	20A 1P - UNKNOWN
SPACE	20A 2P - UNKNOWN
SPACE	30A 2P - EXPRESSO MACHINE
SPACE	20A 1P - HAND DRYER
SPACE	SPACE
	SPACE

20A 3P - AIR HANDLING UNIT	70A 3P - AIR CONDITIONING UNIT
20A 2P - 3RD AND 4TH GRADE A/C UNIT	20A 1P - SIDE DOOR FREEZER
20A 2P - 5TH AND 6TH GRADE A/C UNIT	20A 2P - A/C UNIT KINDERGARTEN ROOM
20A 1P - COFFEE MACH. NEXT TO STEPS	100A 3P - 10 TON A/C AHU UNIT #2
30A 2P - FURNACE FOR PRE-K	20A 1P - FREEZER RECEPTACLE
60A 2P - UNKNOWN	20A 2P - NEW 3 DOOR FREEZER
30A 1P - UNKNOWN	20A 1P - PLUG BY PANEL
SPACE	30A 2P - FURNACE FOR PRE-K
SPACE	SPACE
SPACE	SPACE
SPACE	SPACE
SPACE	SPACE
SPACE	SPACE

EXISTING PANEL SCHEDULES NOTE:

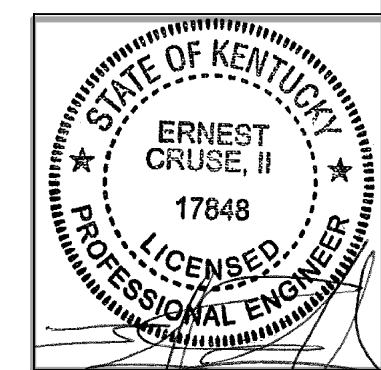
EXISTING PANEL SCHEDULES ARE PRESENTED HERE AS DETERMINED IN THE FIELD. ACCURACY OF THE SCHEDULES CAN NOT BE DETERMINED BUT ARE REPRESENTATIVE OF WHAT IS CURRENTLY IN PLACE. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING CIRCUITS AND DEVICES AFFECTED BY DEMOLITION AS TO THE ACTUAL SOURCE AND BREAKER SERVING THE CIRCUITS. CONTRACTOR SHALL UPDATE ANY AFFECTED PANEL SCHEDULE WITH A NEW CIRCUIT DIRECTORY INCORPORATING ANY FINAL REVISIONS AS A RESULT OF DEMOLITION AND NEW WORK IN THE AFFECTED AREAS.

**NOTE:** ALL DIMENSIONS ARE TO FACE OF STUD

**NOTE:** GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL SUB TRADES AND REQUIREMENTS BY OWNER

**NOTE:** ELECTRICAL, HVAC AND PLUMBING TO BE RELOCATED PER FEDERAL, STATE AND LOCAL CODES. GENERAL CONTRACTOR TO COORDINATE.

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MASTERPLANNING  
**ST GREGORY SCHOOL**  
400 SAMUELS LOOP  
COX CREEK, KY 40013

SCHOOL OFFICE FLOOR PLAN

**ED2.0**

### POWER SYMBOL LEGEND

- ⊕ SPECIFICATION GRADE NEMA 5-15 DUPLEX RECEPTACLE
- ▽ SINGLE GANG DATA OUTLET WITH CONDUIT STUB TO ACCESSIBLE POINT ABOVE LAY-IN CEILING FOR FUTURE LOW VOLTAGE WIRING
- GFI GROUND FAULT TYPE RECEPTACLE
- AC ABOVE COUNTER MOUNTING OF DEVICE
- WP WEATHER PROOF IN-USE COVER FOR RECEPTACLE
- ⊕ NEMA 3R DISCONNECT SIZED PER LOAD SERVED
- ⊕ COMBINATION POWER/DATA FLOOR BOX EQUAL TO LEGRAND 880CS2-1 2 GANG FLOOR BOX WITH COVER PLATE
- ↔ CIRCUIT HOMERUN TO POWER PANEL
- 3-#12 IN MC CABLE UNLESS OTHERWISE INDICATED
- WM SURFACE WIREMOLD PAINTED TO MATCH WALL SURFACE ROUTED FROM CEILING SPACE TO NEW SURFACE WIREMOLD MOUNTED DEVICE
- DUCT ⊕ DUCT TYPE SMOKE DETECTOR WITH REMOTE TEST SWITCH TIED INTO EXISTING FIRE ALARM SYSTEM - COORDINATE WITH FA SYSTEM VENDOR
- ⊕ NEW FIRE ALARM AUDIO VISUAL UNIT (95 CANDELLA) WIRED INTO EXISTING FIRE ALARM SYSTEM - COORDINATE WITH FA SYSTEM VENDOR FOR ALL FINAL REQUIREMENTS TO TIE INTO EXISTING SIGNAL LOOP IN BUILDING
- ⊕ NEW FIRE ALARM MANUAL PULL STATION WIRED INTO EXISTING FIRE ALARM SYSTEM - COORDINATE WITH FA SYSTEM VENDOR FOR ALL FINAL REQUIREMENTS TO TIE INTO EXISTING SIGNAL LOOP IN BUILDING

### GENERAL POWER NOTES

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. MINIMUM WIRE SIZE SHALL BE #12 COPPER. COORDINATE WITH EQUIPMENT ACTUAL WIRE SIZES BASED ON EQUIPMENT NAME PLATE RATINGS.
3. ALL EXPOSED CONDUIT BELOW 10' SHALL BE EMT TYPE. MC CABLE ALLOWED ABOVE CEILINGS AND IN STRUCTURAL AREA OF CEILINGS. SCHEDULE 40 PVC FOR U.G. CONDUIT.
4. COORDINATE WITH MECHANICAL CONTRACTOR FOR REQUIRED CONTROL WIRING ASSOCIATED WITH HVAC EQUIPMENT.
5. PROVIDE PANELBOARD CIRCUIT DIRECTORIES WHICH MATCH FIELD WIRING/CIRCUITING FOR EACH POWER DISTRIBUTION PANEL.
6. UPDATE ALL EXISTING PANEL SCHEDULES AFFECTED BY MODIFICATION OF EXISTING OR ADDITION OF NEW CIRCUITS AS REQUIRED.
7. ALL EXISTING FIRE ALARM DEVICES ARE TO REMAIN. VERIFY EXISTING FIRE ALARM SYSTEM SERVICER AND COORDINATE THE NECESSARY MODIFICATIONS TO THE EXISTING SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW ADDED FIRE ALARM EQUIPMENT AND COMPONENTS.

### POWER SHEET NOTES

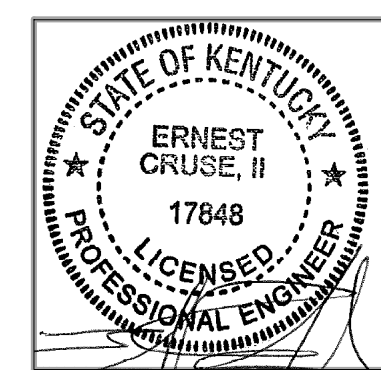
1. REPLACE EXISTING IN-WALL RECEPTACLE WITH NEW DEVICE. RE-USE EXISTING CIRCUIT WIRING TO SERVE NEW DEVICE.
2. RE-USE EXISTING CIRCUIT SERVING DEMOLISHED RECEPTACLES IN THIS AREA TO SERVE NEW DEVICES
3. ROUTE MC CABLE ABOVE CEILING TO SERVE WIREMOLD DROPS TO NEW DEVICES IN LOCATIONS INDICATED.
4. PROVIDE NEW CIRCUIT HOMERUN ABOVE CEILING TO EXISTING PANEL "B". PROVIDE NEW COMPATIBLE 20 AMP SINGLE POLE CIRCUIT BREAKER IN AVAILABLE SPACE TO SERVE THIS CIRCUIT. UPDATE PANEL SCHEDULE WITH NEW LOADS SERVED.
5. PROVIDE NEW CIRCUIT HOMERUN ABOVE CEILING TO EXISTING PANEL "C". PROVIDE NEW COMPATIBLE 20 AMP SINGLE POLE CIRCUIT BREAKER IN AVAILABLE SPACE TO SERVE THIS CIRCUIT. UPDATE PANEL SCHEDULE WITH NEW LOADS SERVED.
6. REPLACE EXISTING BREAKER FORMERLY SERVING THE DEMOLISHED HVAC EQUIPMENT SERVING THIS AREA WITH NEW COMPATIBLE 50 AMP 3 POLE BREAKER TO SERVE NEW EQUIPMENT INDICATED.
7. REPLACE EXISTING BREAKER FORMERLY SERVING THE DEMOLISHED HVAC EQUIPMENT SERVING THIS AREA WITH NEW COMPATIBLE 70 AMP 3 POLE AMP BREAKER TO SERVE NEW EQUIPMENT INDICATED.
8. PROVIDE NEW WHITE CEILING SPEAKER COMPATIBLE WITH EXISTING SOUND SYSTEM TO REPLACE DEMOLISHED ORIGINAL SPEAKERS. RE-USE EXISTING SOUND SYSTEM WIRING TO SERVE NEW SPEAKERS.
9. PROVIDE NEW DUCT TYPE SMOKE DETECTOR FOR RTU-2. TIE NEW SMOKE DETECTOR INTO EXISTING FIRE ALARM SYSTEM AT MAIN FIRE ALARM CONTROL PANEL. COORDINATE WITH FIRE ALARM PANEL SERVICER/MANUFACTURER FOR FINAL REQUIREMENTS NEEDED TO ADD A NEW ZONE IN THE EXISTING FIRE ALARM SYSTEM.
10. PROVIDE NEW FIRE ALARM DEVICES AS INDICATED. TIE INTO EXISTING FIRE ALARM SYSTEM AT MAIN FIRE ALARM CONTROL PANEL. COORDINATE WITH FIRE ALARM PANEL SERVICER/MANUFACTURER FOR FINAL REQUIREMENTS NEEDED TO ADD A NEW COMPATIBLE EQUIPMENT TO THE EXISTING SYSTEM.
11. PROVIDE ROUGH-IN FOR SECURITY ACCESS SYSTEM TO BE PROVIDED BY OWNER. COORDINATE WITH OWNER FOR FINAL DETAILS AND REQUIREMENTS WITH DOOR HARDWARE SUPPLIER AND OWNER.

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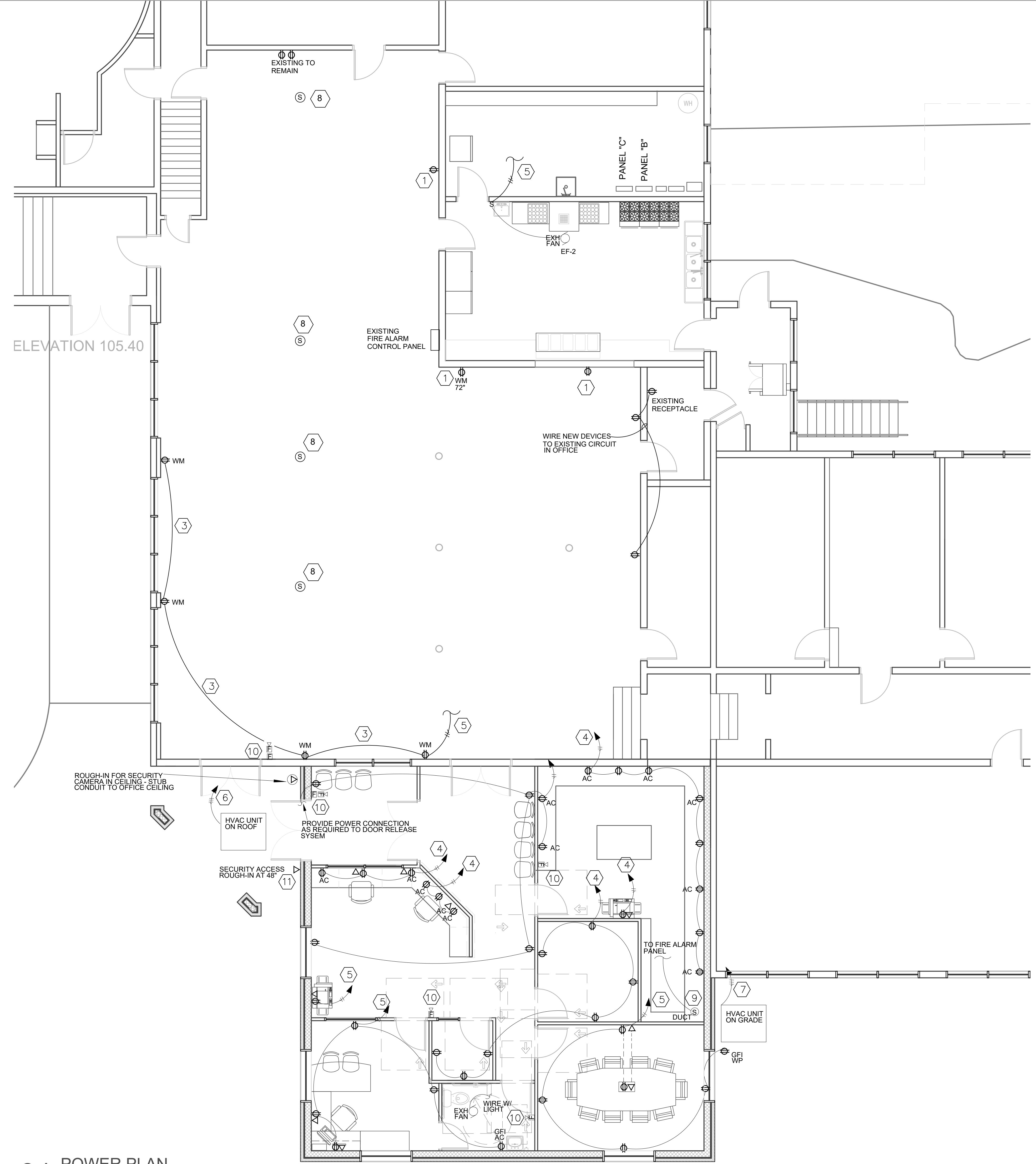
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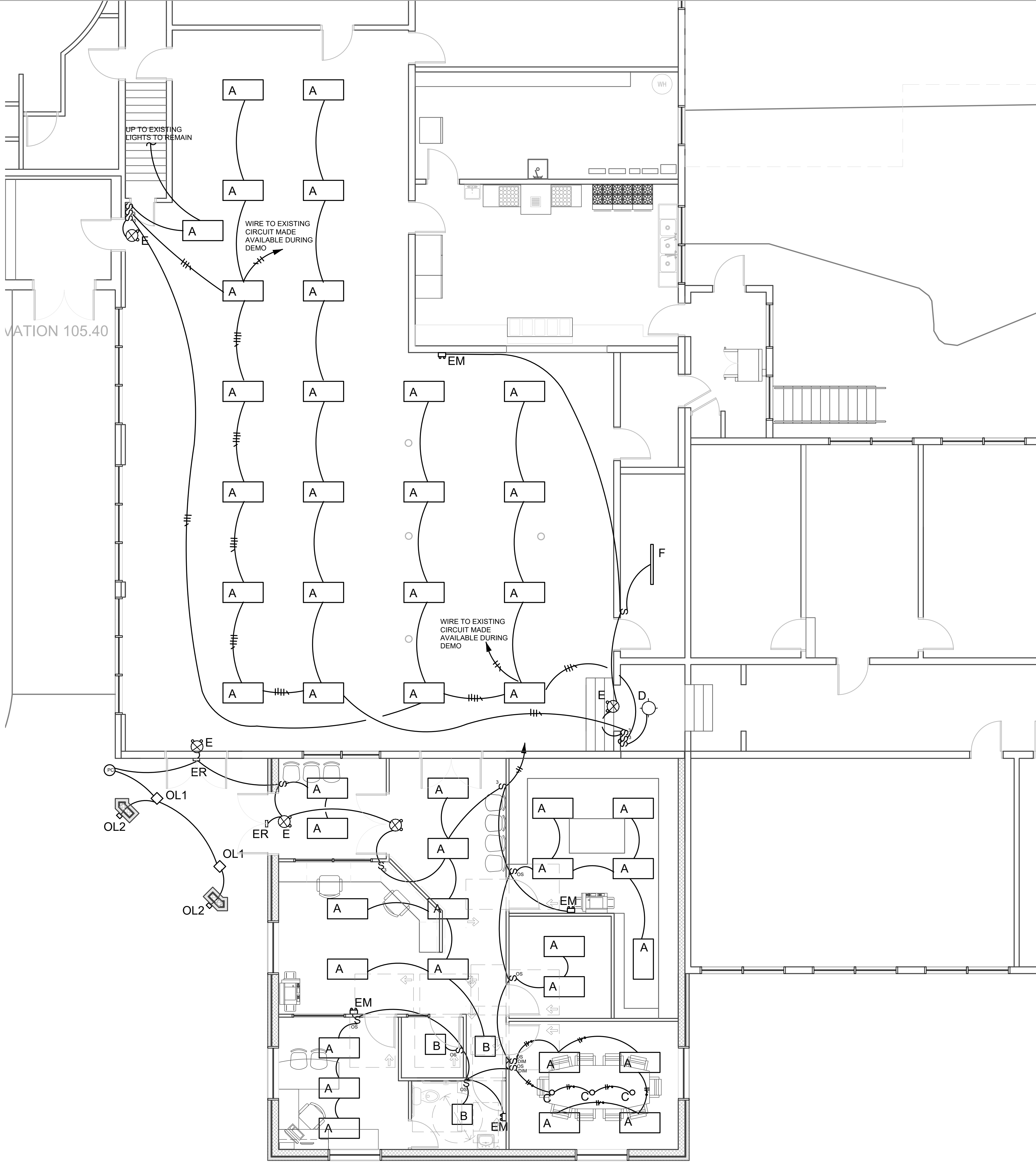
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**E1.01**



**01 POWER PLAN**  
SCALE: 1/4" = 1'-0"



LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MODEL	LUMENS COLOR TEMP	REMARKS	VOLTAGE
A	LED 2X4 FLAT PANEL COLOR TEMP AND LUMEN SELECTABLE	METALUX # 24GTCS-L3C3 CREE # EQUAL WILLIAMS # EQUAL	5200 LUMENS 4000 KELVIN	PROVIDE HOLD DOWN CLIPS FOR FIXTURE TO SECURE TO CEILING GRID	120V
B	LED 2X2 FLAT PANEL COLOR TEMP AND LUMEN SELECTABLE	METALUX # 22GTCS-L3C3 CREE # EQUAL WILLIAMS # EQUAL	3890 LUMENS 4000 KELVIN	PROVIDE HOLD DOWN CLIPS FOR FIXTURE TO SECURE TO CEILING GRID	120V
C	6" RECESSED LED DOWN LIGHT WITH HAZE FINISH TRIM	HALO #HCS-20-D010-HB128APKHM6-0650940-61MD-H CREE # EQUAL PRESCOLITE # EQUAL	2000 LUMENS 4000 KELVIN	MOUNT IN CENTER OF CEILING GRID TILE TO MATCH PLAN LAYOUT	120V
D	SURFACE LED DECORATIVE CLOSE TO CEILING LIGHT	BROWNLEE # 2080-16-FINISH-R22-FINISH-40K OCL # EQUAL G LIGHTING # EQUAL	1900 LUMENS 4000 KELVIN	MOUNT IN FORMER FIXTURE LOCATION	120V
F	SURFACE LED LENSED STRIP LIGHT	METALUX #4ST2L4040R CREE # EQUAL WILLIAMS # EQUAL	4600 LUMENS 4000 KELVIN	MOUNT IN FORMER FIXTURE LOCATION HOLD AS HIGH AS POSSIBLE	120V
E	COMBINATION EXIT EMERGENCY LIGHT WITH ADDITIONAL CAPACITY TO DRIVE FIXTURE TYPE "ER" IN EMERGENCY MODE	COOPER # APCH70 EMERGLITE # EQUAL CHLORIDE# EQUAL	INCLUDED	PROVIDE UN-SWITCHED HOT CONDUCTOR TO SERVE UNIT WIRE AHEAD OF ANY LOCAL CONTROL	120V
EM	SELF CONTAINED SURFACE LED EMERGENCY FIXTURE WITH 2 HEADS	COOPER # SEL25 EMERGLITE # EQUAL CHLORIDE# EQUAL	LAMPS INCLUDED	PROVIDE UN-SWITCHED HOT CONDUCTOR TO SERVE UNIT WIRE AHEAD OF ANY LOCAL CONTROL	120V
ER	EXTERIOR WET LOCATION LINE VOLTAGE REMOTE EMERGENCY EGRESS LIGHT WITH INTEGRAL BATTERY	COOPER # SELW25 EMERGLITE # EQUAL CHLORIDE# EQUAL	LAMPS INCLUDED	PROVIDE UN-SWITCHED HOT CONDUCTOR TO SERVE UNIT WIRE AHEAD OF ANY LOCAL CONTROL- FINISH TO BE SELECTED BY ARCHITECT	120V
OL1	SURFACE SMALL PROFILE LED CANOPY LIGHT	ILP# CP-SL-U-40-FINISH RAB # EQUAL HUBBLE # EQUAL	5000 LUMENS 4000 KELVIN	SURFACE MOUNT TO BOTTOM OF ENTRY CANOPY	120V
OL2	15" SURFACE DECORATIVE EXTERIOR WALL BRACKET LIGHT FIXTURE	BROWNLEE # 7110-15-FINISH-H16-40K OCL # EQUAL VISA # EQUAL	1370 LUMENS 4000 KELVIN	PROVIDE ROUGH-IN IN CANOPY COLUMN AT HEIGHT AS SPECIFIED BY ARCHITECT- ARCHITECT TO SELECT FINISH	120V

LIGHTING SYMBOL LEGEND

- LINE VOLTAGE SPECIFICATION GRADE SWITCH
- I/R TYPE LINE VOLTAGE VACANCY SENSOR SWITCH
- THREE WAY SWITCH
- COMBINATION VACANCY SENSOR/0-10 VOLT DIMMER LINE VOLTAGE SWITCH
- LINE VOLTAGE PHOTO CELL
- CIRCUIT HOMERUN TO ELECTRICAL PANEL
- MC CABLE WITH 3-#12 UNLESS OTHERWISE INDICATED

GENERAL LIGHTING NOTES

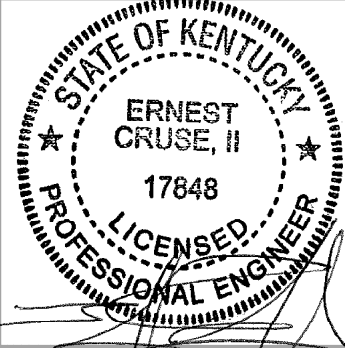
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- WIRE ALL EMERGENCY LIGHTING FIXTURES AHEAD OF LOCAL AREA SWITCHING.
- COORDINATE EXACT FIXTURE PLACEMENT WITH OTHER EQUIPMENT IN THE CEILING SPACE.
- MINIMUM WIRE SIZE SHALL BE #12 COPPER. UTILIZE MC CABLE FOR LIGHTING CIRCUITS.
- UPDATE ANY AFFECTED PANEL SCHEDULES FOR NEW OR MODIFIED EXISTING CIRCUITS AS NEEDED.

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GENERAL NOTES AND SPECIFICATIONS

01000 GENERAL

- A. These drawings and specifications are for general guidance, with the understanding that the Owner will negotiate directly with a contractor for proper execution of work to assure completeness and code compliance.
B. All contractors are to guarantee their work for a minimum of one year from date of acceptance and turnover of a completed project.
C. Contractor to verify the information contained in these plans in field (V.I.F.) and immediately notify the Architect of any discrepancies.
D. The Contractor shall carefully study and compare these contract documents and shall at once report and discovered items to the Owner and Architect any errors, inconsistency, or omissions that cannot be resolved by standard industry practices.
E. Keyes Architects & Associates has a set number of drawing sets that we have guaranteed the owner / client by contract.
F. Before bidding, General Contractor and all Subcontractors are responsible for obtaining all bid documents including but not limited to construction documents and specifications.
G. Where drawings do not specifically show how work is to be executed, the subcontractor responsible for the work will be responsible for figuring out and bidding an acceptable industry standard method of completing the work.
H. Where plans and specifications conflict, specifications shall supersede plans.
I. Contractors are not to scale the plans for missing or unclear information.
J. Contractor's bids are to be complete and to include all material, labor, and facilities required to complete the work shown on drawings and specified herein.
K. All Subcontractor questions concerning bidding, the drawings, or site visits shall be directed to the General Contractor.
L. All Subcontractors shall obtain any specific permits and code review for their trade.
M. The Owners may have other contractors, workers and suppliers engaged on this project.
N. Payment of Monthly Draws for work completed to date is based upon receipt of lien releases and site inspections.
O. Final Payment of all portions of this project is based upon receipt of lien releases, warranties and maintenance/operations manuals for all items.
P. For all sections in these documents where multiple colors, finishes, and/or material choices occur and where the owner can only make these choices after the contract has been awarded, this contract is to include the most restrictive and/or expensive of the choices given so the owner can make a choice at a later time without change orders.
Q. Value engineered items and/or approved equals are to be submitted as part of the bid package for approval by the owner and architect.

01001 TAX EXEMPT PROJECT

- A. This project is being bid to a Tax Exempt Organization, here forward known as the "Client", with federal and/or state approved tax exempt status. The following shall apply to the entirety of this project, unless otherwise stated herein:
1. All labor and materials necessary to complete this project are to be included as part of this bid package.
2. The tax exemption status of the Client will only apply to material purchases made through a wholesaler or retailer for the use on this project.
3. The awarded General Contractor and their Subs will be responsible for setting up the Client's tax exempt information with all material suppliers.
4. All materials are to be invoiced to the Client, care of the General Contractor or Subs.
5. General Contractor or Subs to be responsible for the shipping, handling, storage and installation of all materials for the duration of the project, until the final project is turned over to the Client.
6. Any deliveries made to anywhere other than to the project site, to the General Contractor or the Sub-contractor responsible for the materials, will be returned to the shipper at the General Contractor's expense.
7. All material invoices are to be routed through the General Contractor and any invoices sent directly to the Client will be returned to the issuer.
8. As part of their monthly pay application / monthly draw, the General Contractor will submit materials invoices to be paid along with their draw.

Issued as part of this monthly draw shall be a list of how much money is to be paid to the General

Contractor as well as a list of all invoices to be paid, including Name of the Payee, any Purchase Order #s and the amount to be paid. A single check will be issued to Suppliers with multiple PO submitted as a part of this draw.

A Change Order will also be issued reducing the amount of the General Contractor's project cost by the dollar amount of the material invoices being paid as part of the current draw.

9. Monthly draws will be approved by the Client and all issued material supplier checks will be given to the care of the General Contractor.

It will be the responsibility of the General Contractor to make sure payment is delivered to the material suppliers in an expedient and timely manner.

Any late fees or penalties that occur as a result to deliver these checks, will be the responsibility of the General Contractor, unless these fees can be documented as not being incurred as a fault of General Contractor or Subs.

01500 DEMOLITIONS

- A. General contractor shall be responsible for all demolition work unless otherwise noted. Sub-contractors shall be responsible for all demolition that pertains to their trade and not covered by the General Contractor.
B. Verify structural integrity before & during construction. Provide temporary support as required.
C. Contractors shall provide for dust/debris control, cleanup and protection of other personnel and visitors as needed.
D. The site is to be left "broom" clean and secure from intruders at the end of each day.
E. Contractor to properly remove and properly dispose of all debris and demolished items except items specifically listed to be delivered to owner.
F. All items or utilities "capped" after demolition shall be in a neat manner, paint to match adjoining or conceal behind finished area.
G. Remove and properly dispose of all unused (or no longer used) brackets, supports, misc. items, and equipment from the project areas.
H. All building and column footings shall bear directly on undisturbed soil, unless specifically designed otherwise herein to bear on other subsurface.
I. Assumed bearing capacity as indicated by Owner is 2,000 lbs. s.f., unless otherwise note on the plans or by Geotechnical reporting.

02000 SITE-WORK/FOUNDATIONS

- B. Perform all excavations, backfilling and grading, as well as paving, required to complete work shown.
C. Protect against damage to any lawns, shrubs, trees, roads, walks, signs, underground tanks, etc., and other work that is to remain in place.
D. Materials to be excavated are assumed to be earth or other materials that can be removed by power shovel or other normal excavating equipment.
E. All existing excavated material that cannot be used as fill will be wasted on site in areas as directed by owner.
F. Building slab areas, drives, walks and parking areas that require undercutting or fill are to be backfilled with lean clay or granular fill.
G. General Contractor to include additional cost breakout in their initial bid for either the trench excavation or mass excavation of rock if it is determined to be necessary.
H. Furnish and install all site items as shown on the drawings or list herein.
I. Contractor to include all erosion control measures necessary.
L. If a landscaping plan has not been provided as part of these documents and a cost determination cannot be made, an allowance of \$5,000.00 is to be included in the bid to furnish and install landscaping as to be determined by the owner.
M. All existing excavated material that cannot be used as fill will be wasted on site in areas as directed by owner.
N. Foundation excavation
1. Follow OSHA and local requirements for determining the angle of repose.
2. Cut earth neatly for grade beams and footings, excavate by hand if necessary.
3. Replace disturbed earth and over-excavated locations with fill concrete.
4. Keep excavations constantly shored and dewatered.
5. Pour footings only after excavations have been individually inspected and approved.
6. After inspection and approval, place concrete promptly before any change in excavation conditions occur.

02400 ASPHALT PAVING

- 1. Follow OSHA and local requirements for determining the angle of repose.
2. Cut earth neatly for grade beams and footings, excavate by hand if necessary.
3. Replace disturbed earth and over-excavated locations with fill concrete.
4. Keep excavations constantly shored and dewatered.
5. Pour footings only after excavations have been individually inspected and approved.
6. After inspection and approval, place concrete promptly before any change in excavation conditions occur.
O. Trenching and backfilling for drain pipes
1. Commence from low point so excavation and pipe can be kept drained at all times.
2. Width to be sufficient to make joints and compact backfill under pipe.
3. Final excavation to be done by hand so pipe rests continuously on solid earth except where backfilled with cement stabilized sand.
4. After placing pipe, immediately place some backfill to hold the pipe; compact sufficient backfill under the pipe to hold it securely against any possible movement; do not cover until inspected.

- A. If paving details are not specified on the site plan, then new paved areas shall have a minimum 6" thick DGA with a minimum 2" layer of asphalt binder course and 1" layer of asphalt surface course rolled separately.
B. Existing paved areas to be repaved, shall have all damaged areas removed and then be reconstructed to match the above.
C. All paving shall conform to State Highway specifications for material and installation.
D. If Paving is anticipated in winter, the surface coat may have to wait until spring.
E. Exterior concrete drives, walks and stoops are to be light broom finished in the direction of water flow, unless noted otherwise.
F. Concrete Curing and Sealing Compounds are to be surface applied solvent which cures, seals, hardens, and dustproofs.
1. Unfinished Exposed Interior Concrete Floors are to receive "Intraseal" by Comspec or approved equal.
2. All other concrete slabs to receive "Cure 'N Seal" by Sakrete.
G. All concrete floors are to have a vapor retarder installed before the concrete is placed.
H. Materials and construction methods shall conform to the latest requirements of ACI 318-83.
I. All exposed 90-degree edges of vertical and horizontal corners of concrete shall have tooled edges, unless indicated otherwise.
J. Reinforcing steel shall be A615-83 Grade 60.
K. Welding of or to reinforcing bars without prior approval of engineer is prohibited except where specified on the drawings.
L. All reinforcing bars are to be supported in the form and spaced with wire bars supports meeting the requirements of the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
M. All detailing, fabrication and erection of reinforcing bars, unless otherwise noted, must follow the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
N. Concrete walks shall have molded expansion joint material as shown.
O. Control joints (C.J.) shall be saw-cut a minimum of 1/4 of slab thickness and with a maximum spacing as shown on the drawings.
P. Isolation joints (I.J.) if required shall receive 1/2" thick expansion joint filler extending from bottom of slab to 1/2" below top of slab and the top 1/2" filled with Polyurethane joint sealant.
Q. Construction joints (Const. J.), if required, shall be formed using "Key-Loc Joint System" manufactured by Form-A-Key.
R. All dimensions and grades shall be verified in the field (V.I.F.) by the contractor and any discrepancies or interferences shall be reported to the Architect before proceeding with affected work.
S. Where shown, all junctions of walls, piers and floors to have 1/2" wide expansion joints, filled with elastic expansion joint material.
T. Exposed piers and foundation walls to have rubbed finish.
U. Concrete Contractor to place all exterior equipment pads unless otherwise directed during bidding.

03000 CONCRETE

- A. Concrete to be dimensions shown on drawings and reinforced as detailed.
B. Concrete shall develop a minimum compressive strength of 4000 psi at 28 days.
C. Contractor to make (3) concrete cylinder samples for every 150 cubic yards (or fraction thereof) of concrete placed per day.
D. Interior floor slabs are to receive smooth trowel finish.
E. Exterior concrete drives, walks and stoops are to be light broom finished in the direction of water flow, unless noted otherwise.
F. Concrete Curing and Sealing Compounds are to be surface applied solvent which cures, seals, hardens, and dustproofs.
1. Unfinished Exposed Interior Concrete Floors are to receive "Intraseal" by Comspec or approved equal.
2. All other concrete slabs to receive "Cure 'N Seal" by Sakrete.
G. All concrete floors are to have a vapor retarder installed before the concrete is placed.
H. Materials and construction methods shall conform to the latest requirements of ACI 318-83.
I. All exposed 90-degree edges of vertical and horizontal corners of concrete shall have tooled edges, unless indicated otherwise.
J. Reinforcing steel shall be A615-83 Grade 60.
K. Welding of or to reinforcing bars without prior approval of engineer is prohibited except where specified on the drawings.
L. All reinforcing bars are to be supported in the form and spaced with wire bars supports meeting the requirements of the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
M. All detailing, fabrication and erection of reinforcing bars, unless otherwise noted, must follow the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
N. Concrete walks shall have molded expansion joint material as shown.
O. Control joints (C.J.) shall be saw-cut a minimum of 1/4 of slab thickness and with a maximum spacing as shown on the drawings.
P. Isolation joints (I.J.) if required shall receive 1/2" thick expansion joint filler extending from bottom of slab to 1/2" below top of slab and the top 1/2" filled with Polyurethane joint sealant.
Q. Construction joints (Const. J.), if required, shall be formed using "Key-Loc Joint System" manufactured by Form-A-Key.
R. All dimensions and grades shall be verified in the field (V.I.F.) by the contractor and any discrepancies or interferences shall be reported to the Architect before proceeding with affected work.
S. Where shown, all junctions of walls, piers and floors to have 1/2" wide expansion joints, filled with elastic expansion joint material.
T. Exposed piers and foundation walls to have rubbed finish.
U. Concrete Contractor to place all exterior equipment pads unless otherwise directed during bidding.

04000 MASONRY

- A. Mortar to be type "M or S" complying with ASTM C-90-97.
B. Provide 3/8" thick mortar joints between units with full mortar coverage on the vertical and horizontal face shells only.
C. Concrete block to be standard common light weight concrete masonry units (C.M.U.) in 4", 6", and 8" thicknesses.
D. Provide manufactured smooth face corner block, toothed in at front corners as required.
E. All concrete masonry units to have galvanized #9 wire reinforcing.
F. All self-supporting and load bearing concrete masonry walls to have vertical reinforced cells at 5'-0" on center and 16" from each end.
G. Unless otherwise noted on these plans, all self-supporting or load bearing concrete masonry walls are to have a 8" high bond beam at the top coarse and all walls over 15' tall are to have an intermediate 8" high bond beam at 10'-0" on center.
H. Unless otherwise noted on these plans, all concrete masonry opening heads are to receive a precast concrete masonry lintel with minimum (4) #5 bars and #3 stirrups @ 12" on center.
I. Brick materials allowance to be \$600.00 per 1000, delivered. Color and style to be selected by owner.

- J. In veneer walls, furnish and install galvanized, corrugated masonry anchors at 16" on center horizontally, 24" on center vertically and on each side of masonry control joint at 24" on center vertical.
K. In all veneer walls, provide weep holes at 24" on center and continuous 8" high membrane flashing along bottom row, at or above grade.
L. Masonry subcontractor to be responsible for water-tightness of his work.
M. Workmanship, including joint reinforcement and cold weather installation shall comply with National Masonry Associations applicable recommendations.
N. Masonry contractor to brush clean final surfaces and prepare exterior faces for paint or sealer as called out.
O. Provide control joints as indicated on elevations, with backer rod and paintable elastomeric caulk.

05000 METALS

- A. Provide structural and miscellaneous metal items as shown on drawings, and as required to complete the project.
B. Furnish shop drawings to satisfy local code requirements, fabricate materials and install all metal work as needed.
C. Take field measurements prior to fabrication.
D. Use materials of size and thickness indicated or, if not indicated, as required to develop the maximum loads in the member.
E. Clean and Shop paint miscellaneous metal work, except members or portions of members to be embedded in concrete or masonry.
F. Furnish bent or otherwise custom fabricated, plates, anchors, hangers, dowels and other miscellaneous steel shapes as required.
G. Provide loose bearing and leveling plates for steel items bearing on masonry, concrete construction, or other portions of the structure as indicated.
H. Provide miscellaneous steel elements, framing and supports that are not a part of structural steel framework, as required to complete work.
I. Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications to in-place construction.
J. Provide A-325 bolts as shown on the plans or as required to develop the maximum capacity of the connection shown.
K. Perform cutting, drilling and fitting required for installation of miscellaneous metal fabrications.
L. Field Welding shall comply with AWS Code for procedures of manual shielded metal-arc welding, appearance and quality of welds made, and methods used in correcting welding work.
M. Set loose leveling and bearing plates on wedges, or other adjustable devices.
N. Touch-Up Painting immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material used for shop painting.
O. Miscellaneous Items:
1. Steel Plates, Shapes and Bars: ASTM A-36
2. Cold formed Steel Tubing use ASTM A-500
3. Hot-rolled Steel Tubing use ASTM A- 501
4. Hot-rolled Structural Steel Sheet use ASTM A-570 . Class 1 or grade required for design loading.
5. Cold-rolled Structural Steel Sheet use ASTM A-611 . Class 1 or grade required for design loading.
6. Non-Shrink Metallic Grout to be pre-mixed, factory-packaged, non-staining, non-corrosive, non-gaseous grout complying with CE CRD-C588.
7. Zinc-coated fasteners for exterior use or where built into exterior walls.
P. All wood in contact with concrete or masonry or to be exposed on the exterior to be pressure treated against decay and insects.
Q. Carpenter shall furnish all necessary blocking and grounds for all tops, cabinetry items, handrails, casework and other miscellaneous items as needed.
R. Provide small areas of wood framing where shown for shelves or equipment by owner.
S. Carpenter to furnish & install all moldings, trim work and finish hardware (at windows, doors, handrails, and platform areas).
T. Furnish and install all rough & finish carpentry including rough hardware, form work indicated and required to complete the project.
U. Wood framing is to follow good practice and code requirements for fire blocking and wood blocking.
V. Framing contractor is responsible for bracing required to resist seismic, wind, and live loads specified and required by I.B.C.
W. Remove all wood including form lumber, scrap lumber, shavings, and sawdust in contact with the ground.
X. All lumber and plywood shall be graded and marked in accordance with the latest grading rules of the Manufacturer's Association having jurisdiction.
Y. All materials shall be delivered and stored to insure proper protection from damage.
Z. Framing Lumber to be stress graded lumber (1250 f. Minimum) #2 yellow pine or approved equal of other species of the following minimum unit strengths in #/s per SQ. IN: FB = 1,200; H = 105; C (perpendicular) = 390; (compression parallel to grain) C= 900; and E = 1,760,000.

PROJECT NO: 23-4451
DRAWN BY: DLB/
DATE: 05/17/2024



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COX CREEK, KY 40013

SPECIFICATIONS SP1.01

M. Studs & Plates to be furnish and install as specified, detailed and required. Materials shall be straight and without defects that will impair the strength or alignment. Double studs at openings, triple at corners.

N. Double top plates to have (2) 16d through at each stud through plate. Secure upper member of top plate with (2) 10d at each end and 16d at 16" o.c. staggered. Double members secured with 16d at 12" o.c. staggered.

O. Exterior O.S.B. sheathing to be nailed to studs at 12" o.c. staggered.

P. Install all joists with crown up. Double joists at openings, unless noted to be greater. Double members secured with 16 d at 6" on center, staggered. Laps over supports secured with a minimum of (4) 10d, (3) 20d through header into joists ends. Block solidly at plywood joints.

Q. Header beams for openings in wood framed walls are to be double members with 1/2" plywood between as follows: (2) 2 x 4's for openings 30" wide or smaller, (2) 2 x 6's from 30" up to 48" wide, (2) 2 x 8's from 48" up to 72" wide, and (2) 2 x 10's from 72" up to 96" wide. Framing for openings wider than 96" must be coordinated with the architects.

R. On exterior framing use galvanized, electroplated 16d nails. Interior nails are to be common coated 16d nails unless otherwise notes.

**06175 PRE-ENGINEERED WOOD TRUSSES AND PRE-ENGINEERED JOISTS**

A. Before bidding, supplier / designer of the trusses and joists is responsible for obtaining all bid documents including but not limited to construction documents and specifications. Supplier / designer is responsible for coordinating final design of this product with all other trades, including but not limited to all roof top loads, spacing for ductwork and other miscellaneous design loads. Should a conflict arise as a result of design difference with other trades, this designer should use industry standard practices to bid and create a product to accomplish the design intent of the construction documents and as part of this bid, then notify General Contractor of the intended changes.

B. Trusses or pre-engineered joists are to be of profile shown on building sections and details.

C. Number of panels points, member sizing, grade, and species as designed by the truss manufacturer.

D. The design is to be the responsibility of the manufacturer, who is responsible for meeting all requirements of I.B.C. This includes the truss girders required at spans as shown on Sheet Set.

E. The scissors trusses shall be designed with a pinned connection at one end of the trusses and a roller connection at the other end support condition.

F. Proper installation and anchoring of all members and anchoring of the trusses for adequate strength are the responsibility of the framing contractor. Anchoring to be an appropriate strap or tie as recommended by manufacturer, and federal, state and local code requirements. System to be by Simpson Strong-Tie or equal.

G. Design of all trusses and joists are to be based on maximum deflection of L/360.

H. Bearing web members of floor trusses are to be designed to carry the axial load of the stud wall above.

I. The manufacturer is to provide shop drawings and structural calculations stamped by a state registered structural engineer of the state work to be performed in, before fabricating the trusses.

J. Design of trusses and handling and erection of trusses, including temporary and permanent bracing, is to follow the latest edition of the specifications of the Truss Plate Institute. Refer to Section 1000 item B of these specifications with regards to inconsistencies.

K. Design is to include sizing and spacing of bracing members.

L. Trusses are to be designed to the following minimum loads:

(NOTE: Greater snow loads required at valleys, roof level changes, etc. per I.B.C. Code requirements supersedes these loads.)

Roof Trusses

Wind Load	15 psf
Snow Load	20 psf plus snow load build-up at valleys and roof level changes per I.B.C. plus roof top equipment as directed by the Contractor.
Top Chord D.L.	10 psf
Bottom Chord D.L.	5 psf
Uplift	12 psf (9 in excess of D.L.)

**06410 WOOD CASEWORK**

A. Furnish and install a complete system for cabinets and casework following the standards set forth by AWI and millwork best practices.

B. Cabinets to be oak finish MDF board with overlay doors, wire pulls and fully adjustable plywood shelves, by "Merillat" or approved equal.

C. Tops to be square edge, plastic laminate covered with 4" splash at all walls, scribe fit. Colors to be selected by owner from standard lines.

D. Provide elevations and shop drawings for review by owner.

**07000 MOISTURE PROTECTION**

A. Insulation:

- Roll glass fiber insulation to be thickness and type shown on drawings for specific uses, to be "Fiberglass" or "Celotex".
- Blown-In Fiberglass Insulation:
  - Insulation to be thickness shown on drawings for the specified uses. Product to meet ASTM C764, Mineral Fiber Loose-Fill Thermal Insulation Type 1 or better standards. Product to be by CertainTeed, Owens Corning or Approved Equal.
  - At all eave vents, vertically install a 2x6 insulation dam between all trusses, on top of the wall bearing plates.
  - At all eave vents, install a 24" wide by 48" long rafter baffle, made of extruded polystyrene foam. Product to be by Owens Corning or approved equal.
- Rigid below grade insulation at foundation and basement walls to be extruded, expanded polystyrene 2" thick (R-value: 5), unless otherwise noted on the plans.
- Exterior concrete masonry units to receive "Core-fill 500" foamed in place system or approved equal.

B. Caulking:

- Use Sherwin Williams 950A siliconized acrylic latex caulk, GE Silicone II or approved equal. Color to match surrounding area being caulked. Caulk all exterior joints and both sides of all door and window frames.
- All Equipment, Mechanical, Plumbing and Electrical Contractors shall supply all flashings and curbs for roof or wall penetrations to the building erector. Building erector shall install and flash all building penetrations as part of their bid project.
- All exterior basement walls to receive exterior rubberized asphaltic damp proofing system. Acceptable systems to be by Hydrotech, Hydro-Shur, Grace, Mar-Flex or approved equal. Entire system to be

installed per manufacturers recommendations.

- Where called out on the drawings, fire caulk to meet all ASTM requirements for fire and smoke barrier. Product to be 3M Fire Barrier Sealant CP 25WB+ or approved equal.

C. All exterior masonry to receive stain or sealer and paint as per finishes in section 9.000.

**07240 - EXTERIOR INSULATION & FINISH SYSTEM (E.I.F.S. - Class PB)**

A. Exterior Insulation and Finish System (E.I.F.S.) to be a Drainage EIFS system, consisting of a water resistant barrier, drainage plane, expanded polystyrene insulation (EPS) board, adhesive, cementitious base coat with embedded reinforcing fabric mesh, primer (optional), and finish coat, to be by Parex, STO, Dryvit, or approved equal.

B. Water Resistant Barrier to be a building vapor barrier as specified in Section 07250 or a liquid applied system as specified by manufacturer.

C. Drainage plane to be either a surface applied material approved by manufacturer or a EPS board with integral drainage plane.

D. Flashing shall be continuous and watertight. Flashing shall be designed and installed to prevent water infiltration behind E.I.F.S.

E. E.I.F.S. standard system shall be classified in accordance with EIMA for E.I.F.S. classification and impact ranges of 25-49 inch-lbs.

F. Continuous expansion joints shall be installed at locations as shown and in accordance with manufacturer's recommendations.

G. Substrate systems shall be engineered to withstand applicable design loads.

H. Maximum deflection under positive or negative design loads of substrate system shall not exceed 1/240 of span except as otherwise approved in writing by architect before installation.

I. Substrate dimensional tolerances to be flat with 1/4 inch within any 4-foot radius.

J. Substrate movement and any expansion or contraction of E.I.F.S. and adjacent materials shall be taken into account in design of expansion joints. Proper consideration should be given to sealant properties, installation conditions, temperature range, coefficients of material expansion, joint width to depth ratios, and other material factors. Minimum width of expansion joints shall be as recommended by E.I.F.S. manufacturer.

K. Entire system shall be acceptable for use on this project by the building code department that has jurisdiction.

L. Comply with manufacturer's instructions and recommendations for installation of exterior insulation and finish system.

**07250 WEATHER BARRIER - VAPOR BARRIER**

A. Building vapor barrier to be commercial grade weather barrier Tyvek CommercialWrap by DuPont or approved equal.

B. All joints are to be lapped minimum 3" and taped as specified by manufacturer.

C. All penetrations are to be taped around entire perimeter.

D. Tape to be 3" wide Tyvek Tape for commercial applications by DuPont or approved equal.

E. Barrier to be anchored in wood with 1" plastic caps fasteners with min 5/8" penetration.

F. Barrier to be anchored in metal with 1-5/8" rust resistant screw with 2" plastic cap.

**07530 ELASTOMERIC SHEET ROOFING (EPDM)**

A. Contractors shall field verify all conditions and submit shop drawings for all details and material before ordering the roof components.

B. System to be Versico talc-free black 50-mil EPDM Membrane System installed over 1/2" recovery board and metal batten strips as required, or approved equal.

C. System and application shall exceed all State Building Codes, local ordinances and these construction documents.

D. Provide written 10-year manufacturer and installer's warranties/guarantees from the date of the Owner's written final acceptance of the installation.

E. Install additional blocking and nailers as required, Grade #2 or better lumber, pressure-treated for fire and rot resistance with a salt-based preservative (Wolmanized). Creosote and asphaltic-based preservatives are not acceptable.

F. Non-skid white molded rubber walk pads, 3/8" x 36" x 44" and 3/8" x 36" x 22", for roof protection are to be provided from the roof access to all roof top units.

G. Install roof top curbs supplied by the HVAC contractor.

H. Install flashing as required by the manufacturer's details and contract drawing details.

**07610 METAL ROOFING - STANDING SEAM (OVER DECK)**

A. Metal roofing to be a pre-painted standing seam roof system over 15lb felt with a plywood substrate and to include all closure strips, trim and flashing as needed to create a water tight system.

B. System to be Snap-Loc 24ga by Metal Sales Manufacturing or approved equal. System to be installed per manufacturer's specifications, recommendations and industry standard best practices.

**08000 DOORS AND WINDOWS**

A. Doors, frames, windows and glazing to be as shown on drawings. Finish hardware to comply with building code.

B. All door and window glazing to conform to section 08800 Glazing.

C. Egress doors shall be able to be opened from inside without a key or special knowledge.

D. All exterior outward swinging hinged doors are to have Non-Removable Pin (NRP) hinges, unless otherwise specified on the drawings.

E. Hollow metal frames shall be standard profile, 16ga. shop primed. Three (3) anchors each side, one (1) at head. Use wrap around frames at Gypsum board partitions.

F. Hollow metal doors shall be flush, 18 GA., 1 3/4" thick, exterior doors to be insulated with rigid bd. insulation. Head of doors to be solid and flush. Doors to be shop primed.

G. Wood doors shall be 1 3/4" solid core (particle bd. core) as indicated with flush stain grade veneer. Doors to be job stained and sealed, color as selected.

H. Finish hardware shall be medium grade commercial products by Stanley, Schlage, Von Duprin, Yale or an approved equal. Finish to be selected by owner. U.L. rated and Handicapped accessible hardware as required. See door schedule.

I. Exterior clad windows to be fixed, double hung or double casement units as shown on plans. Windows to be by Anderson, Pella, Marvin, or approved equal. All units to have clear insulated glazing with Low-E coating. Install per manufacturer's instructions and recommendations.

**08410 ALUMINUM STOREFRONT SYSTEM**

A. Exterior frame are to be thermally broken aluminum frames.

B. Frames to be black, bronze, white or clear anodized (as selected by owner).

C. Aluminum storefront system to be "Kawneer 451T" or approved equal.

D. Glazing contractor shall be responsible to securely anchor units to framing or masonry as needed to transfer loads to the building.

E. All glazing to conform to section 08800 Glazing.

**08520 SLIDING / GLIDING VINYL WINDOW**

A. Overall product frame depth to be a minimum 3-1/4".

B. Interior and Exterior surfaces are to be extruded rigid uPVC, with sashes having a foam insulation.

C. Members are to have mitered and heat fused fully welded corners.

D. Sill to be fitted with weeps.

E. Frame to have a setback nail fin appropriate for wall depth.

F. Glazing to be dual pane Low-E coated insulated glass per section "08800 Glazing" below.

G. Unless specified otherwise elsewhere interior and exterior finish to be white.

H. Units are to include factory installed locks and insect screen in a finish to match window.

I. Where shown on elevations, windows to have 3/4" wide grills-between-the-glass, in a finish to match window.

J. Window to be Pella 250 Series Sliding Window, Sierra Pacific 8000 Series Horizontal Slider, Jeld-Wen V-2500 Series Sliding Window, or approved equal.

**08800 GLAZING**

A. Unless specified herein, all glazing is per door and window schedules located on the construction documents.

B. All glazing to comply with safety glazing laws. Installer to verify requirements before ordering and installing all glazing.

C. All insulated glazing units, Low-E finishing and glaze tinting are to carry a minimum of a 10 year warranty from date of acceptance of project.

D. Where glazing is specified to be Low-E and Tinted, glazing is to be tempered as per glazing types below.

E. All glazing to follow Standard Specifications for ASTM C 1036, ASTM C 1048 and ASTM E 774.

F. Glazing to be by PPG, LOF, Guardian Industries, Ford Glass, Hordis Brothers Inc., or equal. Provide all tinted and Low-E glass from the same manufacturer for the entire project.

G. Glazing:

- Exterior glazing to be 1", double layer insulated glazing.
- Interior glazing to be 1/4", single layer.

H. Glazing Types:

- Annealed: Clear float glass conforming to ASTM C 1036, Type I, Class 1, quality q3.
- Tempered: As specified for clear annealed except fully tempered to conform to ASTM C 1048, Kind FT.
- Clear Wire: 1/4 inch (6 mm) thick, clear rolled glass conforming to ASTM C-1036, Type II (flat), Class I, Form 1 (wired and polished both faces), wired with welded polished wires, 1/2 inch (13 mm) x 1/2 inch (13 mm) square pattern, smooth wires vertical, manufactured by Hordis Bros., Sierracin/Transtech, or equal.

I. Glazing Finish Types:

- Obscure: Conforming to ASTM C 1036, Type II, Class I, Form 3, Finish 1, pattern p3 "hammered" texture glass.
- Low-E: PPG "Sungate 500(2)" or equal, clear float glass with transparent reflective coating on inboard (No. 2) surface, conforming to glass type.
- Low-E Tinted: PPG "Sungate 1000(2)" or equal, tinted float glass with transparent reflective coating on inboard (No. 2) surface, conforming to tempered glass type.
- Spandrel: Tempered spandrel glass conforming to DD-G-1403, Grade B, Style II, color as shown or selected by owner.

J. Tint Finish Types - Glare reducing float glass to be: PPG "Solargray", gray color, PPG "Solarbronze", bronze color, or equal.

K. Configuration to be per Window Schedule located in the Construction Documents.

L. Glazing materials and accessories shall be fully compatible with the materials and finishes with which they are in contact. Neoprene and EPDM materials shall not come in contact with silicone sealant materials. Silicone rubber spacers, setting and edge blocks and gaskets shall be either Type I (designed to prevent adhesion) or Type II (designed for adhesion) as per glazing system manufacturer's recommendations for each condition of use.

**09000 FINISHES**

A. All finishes shall be as called for and specified on drawings.

B. Inspection of finished surfaces for blemishes and defect at the end of the project shall follow the generally accepted standard - PDCA (P1-09) Industry Standards for reviewing finished surfaces. "Viewing and inspection of finished surfaces shall be at a distance of thirty-nine (39) inches from the surface under finished lighting or natural lighting without the use of any optic magnifications or enhanced lighting. Any blemishes or defects detected at this range shall be removed or repaired and patched to match the surrounding."

C. Fiberglass Reinforced Plastic (FRP) Panels are to be by Marlite, Duralite by Kemlite, or approved equal. Furnish and install complete system, include panels, trim, and adhesive system.

D. Gypsum Board:

- All gypsum board to be 5/8" thick and installed per U.S. Gypsum association standards and best industry practices.
- Use mold / moisture-resistant gypsum board ("Green" Board or equal) in all toilet rooms and within 4'-0" of all plumbing fixtures such as sinks, drinking fountains, washing machines or any other equipment not listed here in.
- Where indicated on plans all fire rated assemblies are to use 5/8" Type 'X' gypsum board, installed per details and best industry practices.
- Furnish and install metal or plastic corner bead at all outside corners and "J" mold at all exposed

edges.

- Control Joints: All walls are to follow the latest ASTM C840-08 and GA-216 as it pertains to control joint placement. Unless shown on the plans differently, all walls and ceilings greater than (30) linear feet in any direction are to have a control joint every 30'-0" O.C. All control joints are to receive a metal or plastic control joint strip, installed per manufacturer's recommendations.
- Ceramic wall tile to be 4"x4" ceramic mosaic tiles by American Olean or approved equal. Install thin set over cement board substrate. Use C-Cure grout, 100% epoxy additive. Tile and grout colors to be selected by owner from standard architectural line (maximum of three tile colors).
- Ceramic floor tile to be 12"x12"x5/16" thin set tile by StonePeak or approved equal, with cap tile along edges and base. Install with C-Cure grout, 100% epoxy additive. Install per manufacturer's recommendations and installation instructions. Tile and grout colors to be selected by owner from standard architectural line (maximum three tile colors).
- VC.T or VET (Vinyl Enhanced Tile) Floor Tile to be 12"x12"x1/8" Azrock by Tarkett, or approved equal. Owner to select maximum of three colors from full architectural line.

H. Vinyl plank flooring is to be nominal 0.125" thick vinyl with a minimum 0.02" wear layer. Tile to be 48" in length, 6" to 9" in width, and shall be laid in a straight pattern. Owner to select final product from a standard list of manufacturer's product in a minimum of (2) colors. Product to be I.D. Freedom by Tarkett, Classics V5000 by J+J Flooring or approved equal. Product to be glued down using a standard adhesive recommended by manufacturer.

I. Carpet to be commercial grade \$15.00/sq. yd. (installed). This allowance cost is to be independent of the special pads shown for commercial glue down.

J. Vinyl base to be 4" high, 1/8" thick by Tarkett, Roppe, or approved equal. Use coved at vinyl floor tile and coveless at carpet. Stairs shall receive Vinyl treads and backs, treads shall have replaceable slip resistant strip at nosing. Colors as selected by Owner from standard architectural line. Installed per manufacturer's instructions.

K. Floor transitions shall be vinyl as recommended for the specific material transitions. Material shall be by Tarkett, Roppe or approved equal selected from full architectural color lines.

**L. Coating Schedule:**

1. Surfaces not to be painted are floor coverings, items with factory applied final finish, concealed ducts, pipes and conduit, acoustical ceiling tiles, items with pre-finished surfaces, aluminum windows and door frames, and all items called not to be painted on plans.

2. Surfaces to be painted:

- Note: consult with Owner for final colors and finishes.
- a) Exposed interior Drywall:
    - 1st coat: Latex Wall Primer.
    - 2nd coat: Latex eggshell or Alkyd based enamel as called for.
    - 3rd coat: Latex eggshell or Alkyd based enamel as called for.
  - b) Interior Drywall Ceilings:
    - 1st coat: Latex Wall Primer
    - 2nd coat: Alkyd Flat Ceiling Paint
  - c) Interior Wood or Masonite (Painted):
    - 1st coat: Wall and Wood Primer
    - 2nd coat: Semi-Gloss Alkyd Enamel
    - 3rd coat: Semi-Gloss Alkyd Enamel
  - d) Interior Wood (Stained):
    - 1st coat: Interior Wood Stain
    - 2nd coat: Gloss Polyurethane (sand between coats)
    - 3rd coat: Gloss Polyurethane

- e) Interior Metal:
  - 1st coat: Metal Primer
  - 2nd coat: Semi-Gloss Alkyd Enamel
  - 3rd coat: Semi-Gloss Alkyd Enamel
- f) Exterior Metal:
  - 1st coat: Metal Primer
  - 2nd coat: Semi-Gloss Alkyd Enamel
  - 3rd coat: Semi-Gloss Alkyd Enamel
- g) Asphalt Striping:

Install 4" wide Bright White stripes at all shown parking spaces.

Install 4" wide Safety Yellow stripes at Handicapped parking and loading areas.

Directional arrows where shown, to be Safety Yellow.

All Striping and marking to be straight, perpendicular and uniform.

**09511 ACOUSTICAL CEILING TILES**

A. Ceiling grids to be standard 2'x4' or 2'x2' by Donn, Armstrong, or approved equal.

B. Ceiling tiles to be 2'x2' or 2'x4' vinyl faced square edge, standard fissured square edge, or standard fissured tegular panels by Armstrong, U.S.G., or approved equal.

C. Acoustical sound panels to be 2'x2' colored Acoustone panels by U.S.G. or approved equal.

D. Wet areas such as kitchens, restrooms, and wash rooms are to receive a smooth texture 2'x4" washable, scratch resistant, and anti-microbial acoustical tile. Tile to be Kitchen Zone - 672 by Armstrong or approved equal.

E. Grid and panels are to be white unless otherwise noted on the finish schedule.

**10000 SPECIALTIES**

- A. Storage shelving, where shown on drawings shall be plastic coated wire systems by ClosetMaid, Schulte, K&V, or approved equal. Each location shall have a fully adjustable track system with a minimum of six shelves. Final styles of the supplied shelves to be selected (Some areas may receive only a rod and shelf).
- B. Fire extinguisher and cabinets to be by owner as required by code and by the fire inspector.
- C. Toilet accessories: The following list of new items shall be furnished and installed:
- (1) Fixed standard mirror(s) 30"x36" - Bobrick B-165 B 3036
  - (1) Fixed standard mirror(s) 24"x36" - Bobrick B-165 B 2436
  - (1) 18" vertical grab bar(s) - Bobrick B-6806x18
  - (1) 36" horizontal grab bar(s) - Bobrick B-6806x36
  - (1) 42" horizontal grab bar(s) - Bobrick B-6806x42
  - (1) Toilet paper holder(s) - Bobrick B-2888
  - (1) Paper towel dispenser(s) - Bobrick B-262

PROJECT NO:  
23-4451

DRAWN BY:  
DLB/

DATE:  
05/17/2024



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OFFICE ADDITION

ST GREGORY SCHOOL

400 SAMUELS LOOP  
COX CREEK, KY 40013

(1) Wall mounted soap dispenser(s) - Bobrick B-5050

**10350 FLAGPOLE**

- A. Project to include one ground set 25 feet tall flagpole, along with all accessories to install and utilize this unit. Flag to be supplied by owner.
- B. Submit show drawings that include product data, manufacturer's descriptive literature for flagpoles, details on all components and mounting details.
- C. Provide Manufacturer's standard warranty against defects in product workmanship and materials.
- D. Manufacturers:
  1. Concord Industries, Inc., 4150 Kellway Cir. P. O. Box 2449; Addison, TX 75001-2449; 800-527-3902
  2. American Flagpole, Inc., P.O. Box 547, Abingdon VA 24210; 800-368-7171
  3. Acme/Lingo Flagpoles, LLC; 1865 Rt. 206, Southampton NJ 08088; 800-260-1897
  4. Or Approved Equal

**10440 FIRE AND/OR SMOKE BARRIER PROTECTION SIGNAGE**

- A. This project will require a "Fire Wall", "Fire Barrier", and/or "Smoke Barrier" as part of the scope of work. Per the building code, signage will be required on these walls identifying these walls as needing to be protected.
- B. Signage will be required as listed below unless otherwise specified by these drawings or by a local building code.
- C. Where Required: Where there is an accessible concealed floor, floor-ceiling or attic space, fire walls, fire barriers, fire partitions, smoke barrier and smoke partitions, or any wall required to have protected openings or penetrations shall be effectively and permanently identified with signs or stenciling in the concealed space.
- D. Signage Location: Signs will be located within 15 feet of the end of each wall and at intervals not exceeding 30 feet on center measured horizontally along the wall or partition.
- E. Signage Requirement: Include lettering not less than 3 inches in height with a minimum 3/8 inch stroke in a contrasting color incorporating the suggested wording, "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS," or other wording. Signs to be worded with the identification of the wall rating being applied to.
- F. Where stenciling is allowed by local codes and owners, lettering to be concise and clear applied to a smooth surface.
- G. Where signage is required by local code and owners, signage to be made of high durability vinyl or sheet metal with a permanent adhesive or a minimum of (4) screws.

**11000 EQUIPMENT**

- A. General contractor to install all equipment so listed on drawings, verify and coordinate requirements with suppliers during bidding.
- B. Owner to supply and install all equipment not required or listed herein. See equipment schedules.

**12000 FURNISHINGS**

- A. Owner to furnish and install all furnishings not required or listed herein.

**14000 CONVEYING EQUIPMENT - Not Used**

**SPECIAL NOTE:**

- A. Final detailed layout of Steel Structures, Plumbing, Mechanical, Fire Suppression and Electrical systems are by separate Engineers or installers, it is the responsibility of the owner and General Contractor to coordinate all work with affected other trades to assure completeness and code compliance.
- B. It is the responsibility of the General Contractor and the Mechanical, Electrical, and Plumbing Contractors to ensure that all parts of their work is to be accessible as per Federal ADAAG Guidelines and all State / Local Guidelines. This includes but is not limited to Electrical Controls such as Thermostats or Lighting Controls, Light Switches, Outlet Plugs, Hand Dryers, and Faucet Controls. If there are concerns about how to determine reach ranges, equipment clearance or other accessibility items, contact the architect immediately before work begins for guidance.

**END OF SPECIFICATIONS**

**ABBREVIATIONS**

These are abbreviations used on the plans and in these specifications. Not all items may be use and are for reference only.

- ACT - Acoustical Ceiling Tile
- AFF - Above Finished Floor
- CJ - Control Joint
- E.I.F.S. - Exterior Insulation and Finish System
- FRP - Fiberglass Reinforced Panels
- Gyp. Bd. - Gypsum Board
- I.B.C. - International Building Code
- MAX - Maximum
- MIN - Minimum
- NRP - Non-Removable Pin
- O.C. - On Center
- VCT - Vinyl Composite Tile
- VET - Vinyl Enhanced Tile
- V.I.F. - Verify In Field

PROJECT NO:

23-4451

DRAWN BY:

DLB/

DATE:

05/17/2024



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OFFICE ADDITION  
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SPECIFICATIONS

**SP1.03**