

STATE SYSTEM OF HIGHER EDUCATION COMMONWEALTH OF PENNSYLVANIA

SHIPPENSBURG, UNIVERSITY
SHIPPENSBURG, PENNSYLVANIA 17257

MARTIN HOUSE RENOVATIONS

PROJECT NO. SU - 2010/6B
MAY 09, 2014

CONSTRUCTION DOCUMENTS

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YORK, PENNSYLVANIA 17401
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BAKER, INGRAM AND ASSOCIATES
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PH: (717)290-7400
FAX: (717)290-7402



Shippensburg
University

DRAWINGS SATISFACTORY TO:

ASSOCIATE DIRECTOR OF PLANNING, DESIGN & CONSTRUCTION

APPROVED: _____

DIRECTOR OF PUBLIC SAFETY :

APPROVED: _____

UNIVERSITY SAFETY COORDINATOR :

APPROVED: _____

MANAGER OF TELECOMMUNICATIONS :

APPROVED: _____

UNIVERSITY PRESIDENT:

APPROVED: _____

APPROVALS

DRAWINGS LISTED IN INDEX

APPROVED: _____
FOR THE UNIVERSITY AND STATE SYSTEM

TITLE _____ DATE _____

REVIEWED BY :

DATE _____ PROFESSIONAL _____

FIRM _____

PROFESSIONAL SEAL :



REVISIONS
NO. DATE

DATE: MAY 9, 2014

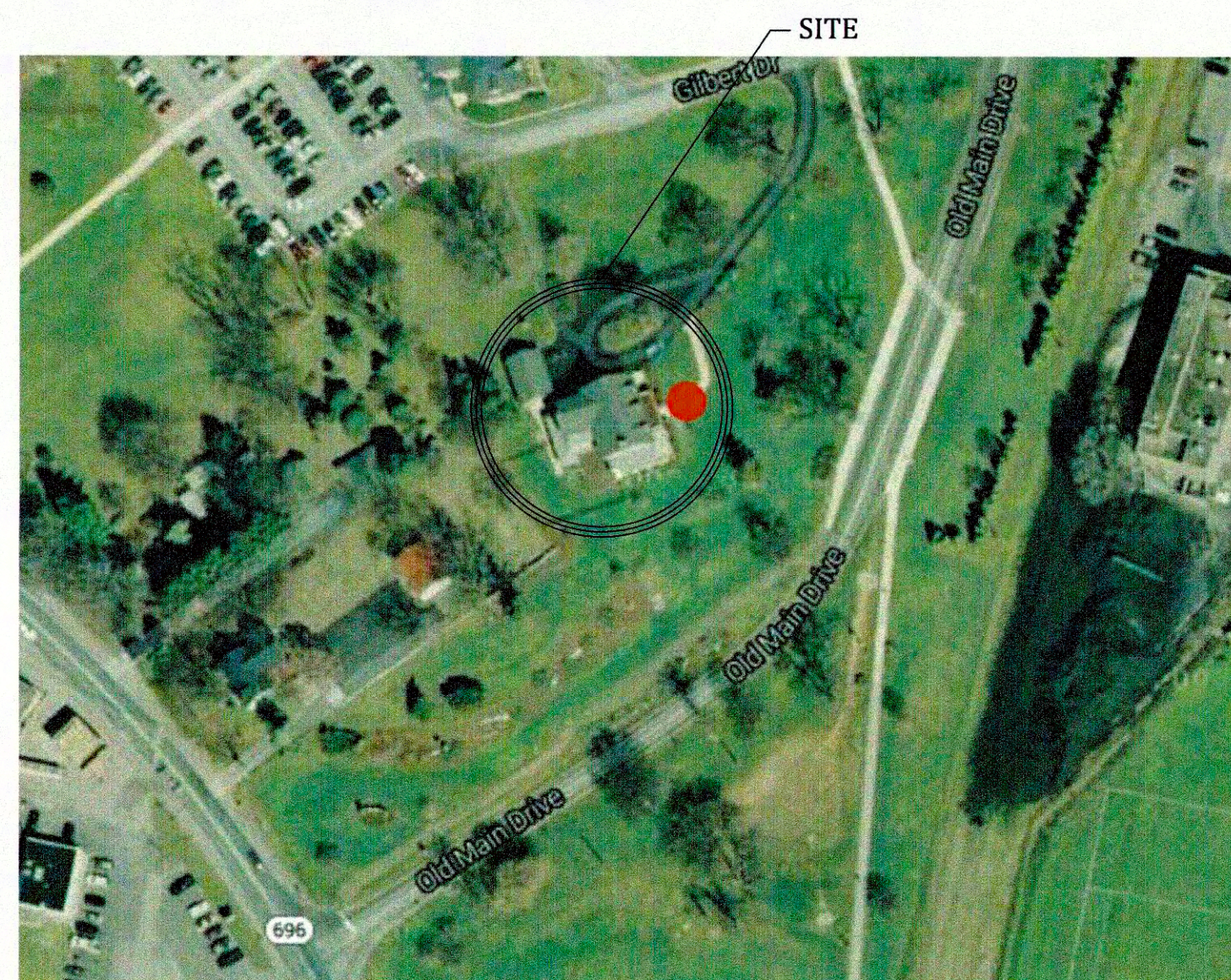
COVER SHEET

CS-1

LOCATION

SHIPPENSBURG UNIVERSITY
1871 OLD MAIN DRIVE
SHIPPENSBURG, PENNSYLVANIA 17257

MARTIN HOUSE
AT SHIPPENSBURG UNIVERSITY
SHIPPENSBURG, PENNSYLVANIA 17257



SYMBOLS LEGEND

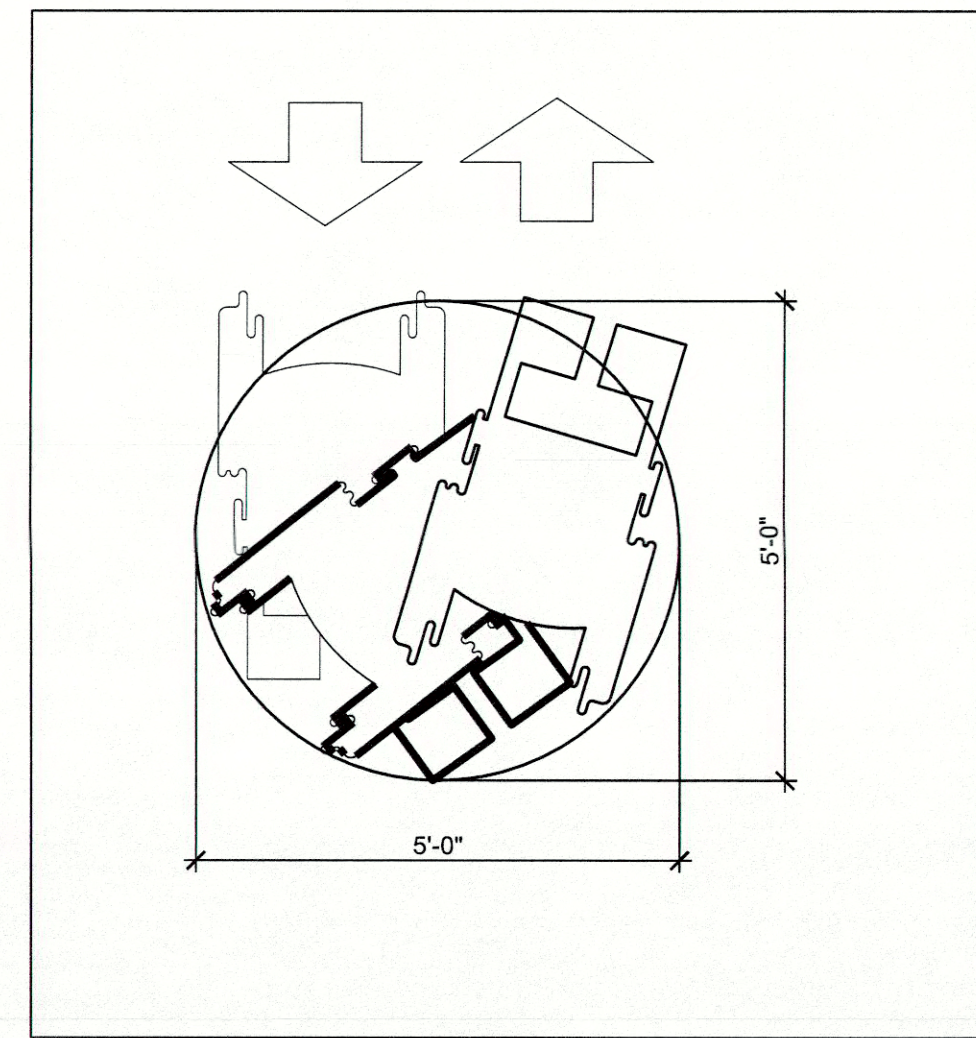
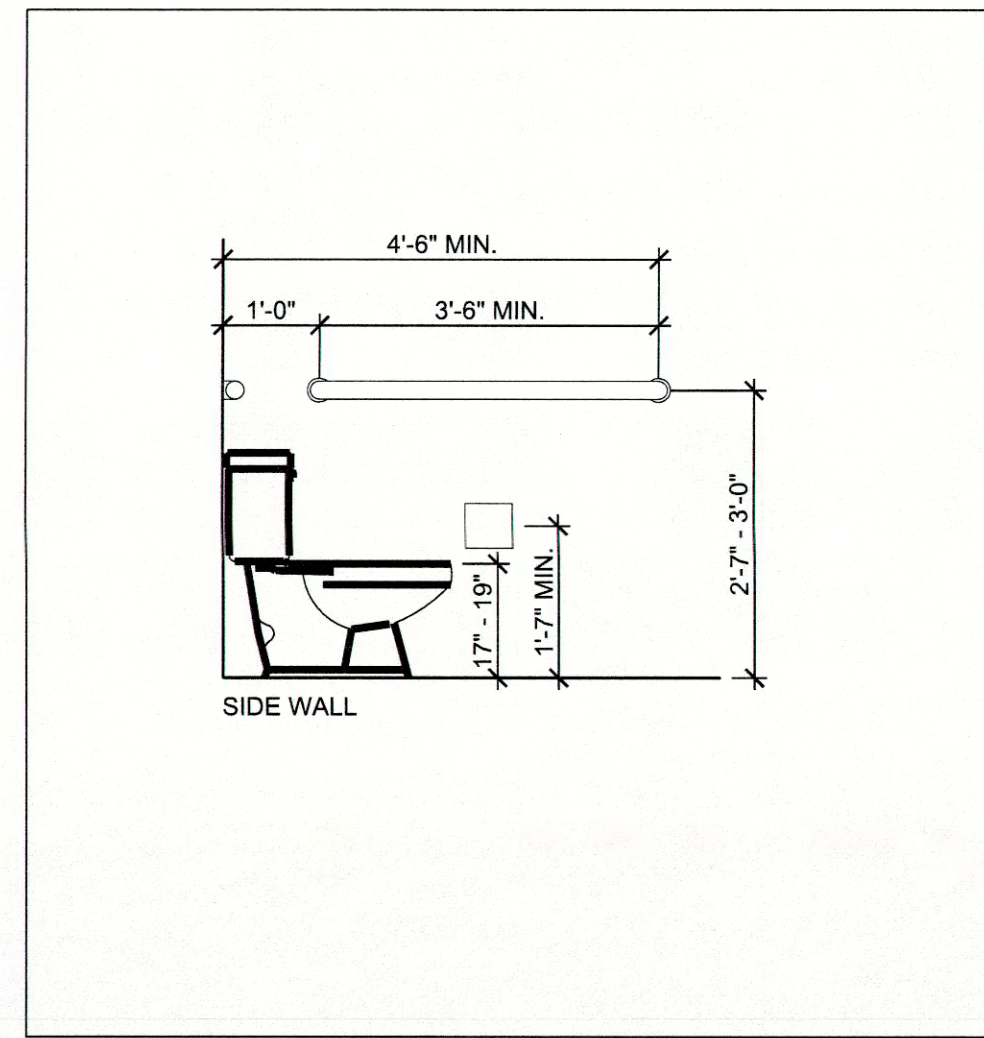
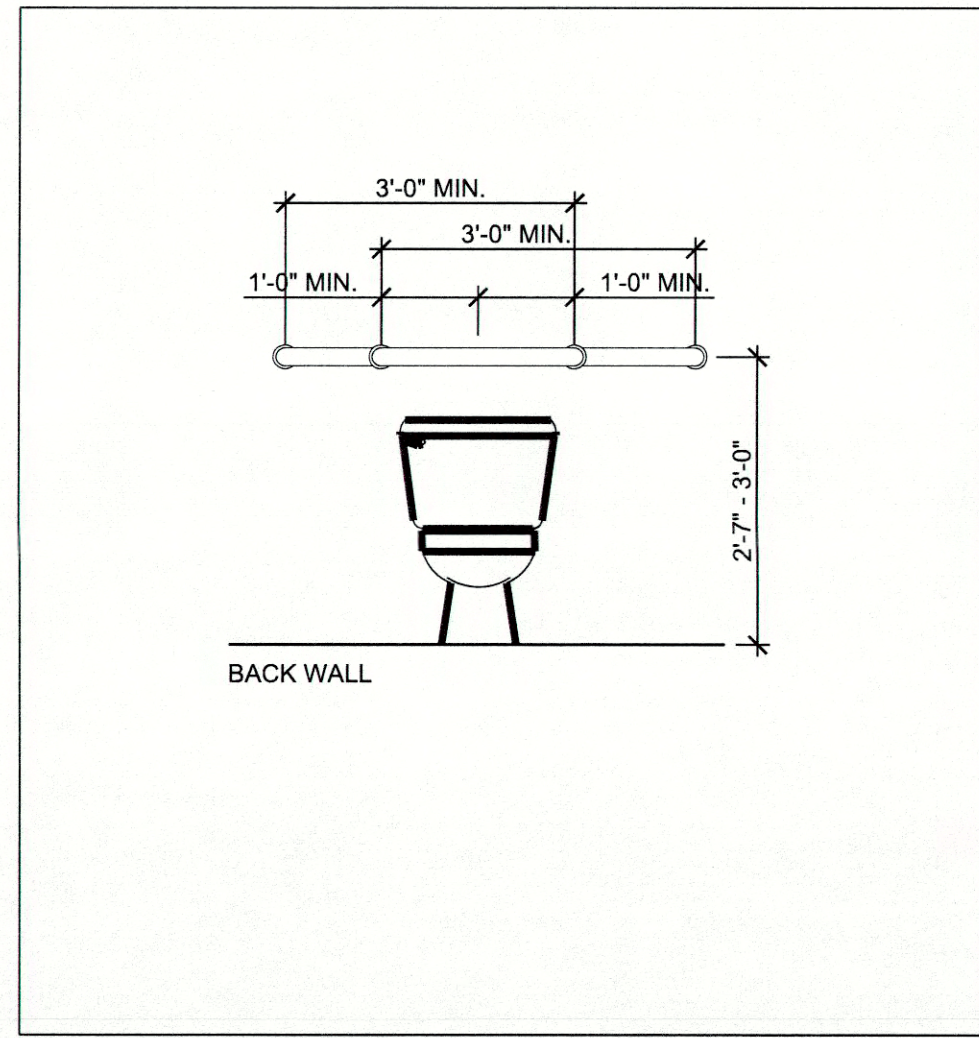
	DRAWING # SHEET #		COMPACTED SUBGRADE
	ELEVATION DRAWING # SHEET #		CONCRETE
	DETAIL DRAWING # SHEET #		C.M.U.
	INTERIOR ELEVATIONS DRAWING # SHEET #		ROUGH WOOD
	WALL TYPE (SEE WALL SCHEDULE)		PLYWOOD
	WINDOW TYPE (SEE WINDOW SCHEDULE)		FINISHED WOOD
	DOOR NUMBER (SEE DOOR SCHEDULE)		RIGID INSULATION
	NEW SUSP. A.C.T. CEILING & GRID		BRICK
	NEW SUSP. GYP. BD. CEILING OR BULKHEAD		EXISTING WALLS TO BE REMOVED
			NEW PARTITION
			EXISTING WALLS TO REMAIN
			EXISTING DOOR TO BE REMOVED
			EXISTING DOOR
			NEW DOOR

ABBREVIATIONS

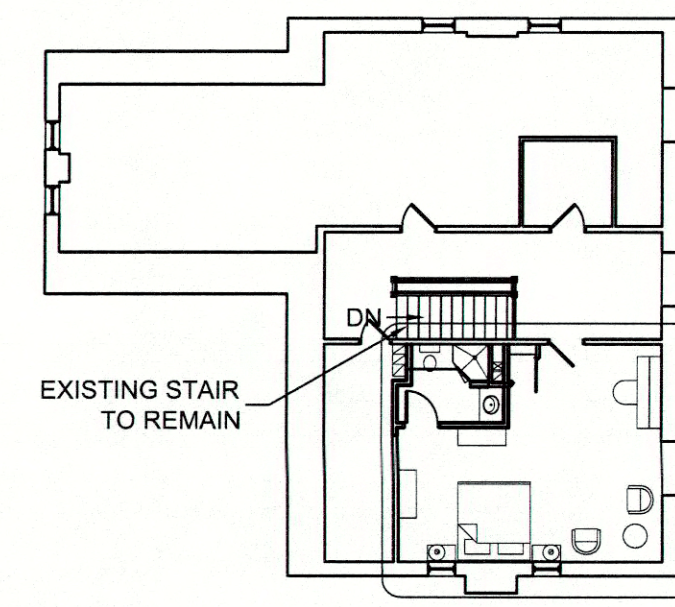
A/C	AIR CONDITIONING	LAV	LAVATORY
AHU	AIR HANDLING UNIT	LH	LEFT HAND
ALUM	ALUMINUM	MACH	MACHINE
@	AT	MO	MASONRY OPENING
BSMT	BASEMENT	MTL	METAL
BC	BASE CABINET	MAX	MAXIMUM
BITUM	BITUMINOUS	MECH	MECHANICAL
BD	BOARD	MIN	MINIMUM
BLK	BLOCK	MISC	MISCELLANEOUS
BLDG	BUILDING	NIC	NOT IN CONTRACT
BLKD	BULKHEAD	NO or #	NUMBER
BP-X	BID PACKAGE #	NTS	NOT TO SCALE
CLG	CEILING	OC	ON CENTER
CL	CENTER LINE	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	PLAS LAM	PLASTIC LAMINATE
CONC	CONCRETE	PTD	PAINTED
CJ	CONTROL JOINT	REFRIG	REFRIGERATOR
DIM	DIMENSION	REINFR	REINFORCED
DN	DOWN	RH	RIGHT HAND
DWG	DRAWING	RM	ROOM
D	DEEP	SHT	SHEET
EJ	EXPANSION JOINT	SIM	SIMILAR
ELEC	ELECTRICAL	SPEC	SPECIFICATION
ELEV	ELEVATION	STD	STANDARD
EL	ELEVATOR	STL	STEEL
EQUIP	EQUIPMENT	STL	STAINLESS STEEL
EXIST	EXISTING	STOR	STORAGE
FIN	FINISH	TOS	TOP OF SLAB/STEEL
FE	FIRE EXTINGUISHER	TH	THICK
FD	FLOOR DRAIN	TYP	TYPICAL
FFE	FINISH FLOOR ELEVATION	UNO	UNLESS NOTED OTHERWISE
FL	FLOOR	VIF	VERIFY IN FIELD
FT	FOOT	VIFWA	VERIFY IN FIELD WITH ARCHITECT
FWWA	FIELD VERIFY W/ARCHITECT	WB	WALLBOARD
GP BD	GYPSON BOARD	WC	WATER CLOSET
GWB	GYPSON WALL BOARD	W	WITH
HDCP	HANDICAPPED	W/O	WITHOUT
HVAC	HEATING/VENTILATION, AIR CONDITIONING	WD	WOOD
HT	HEIGHT	W	WIDE
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		
INSUL	INSULATION		
INT	INTERIOR		

DRAWING INDEX

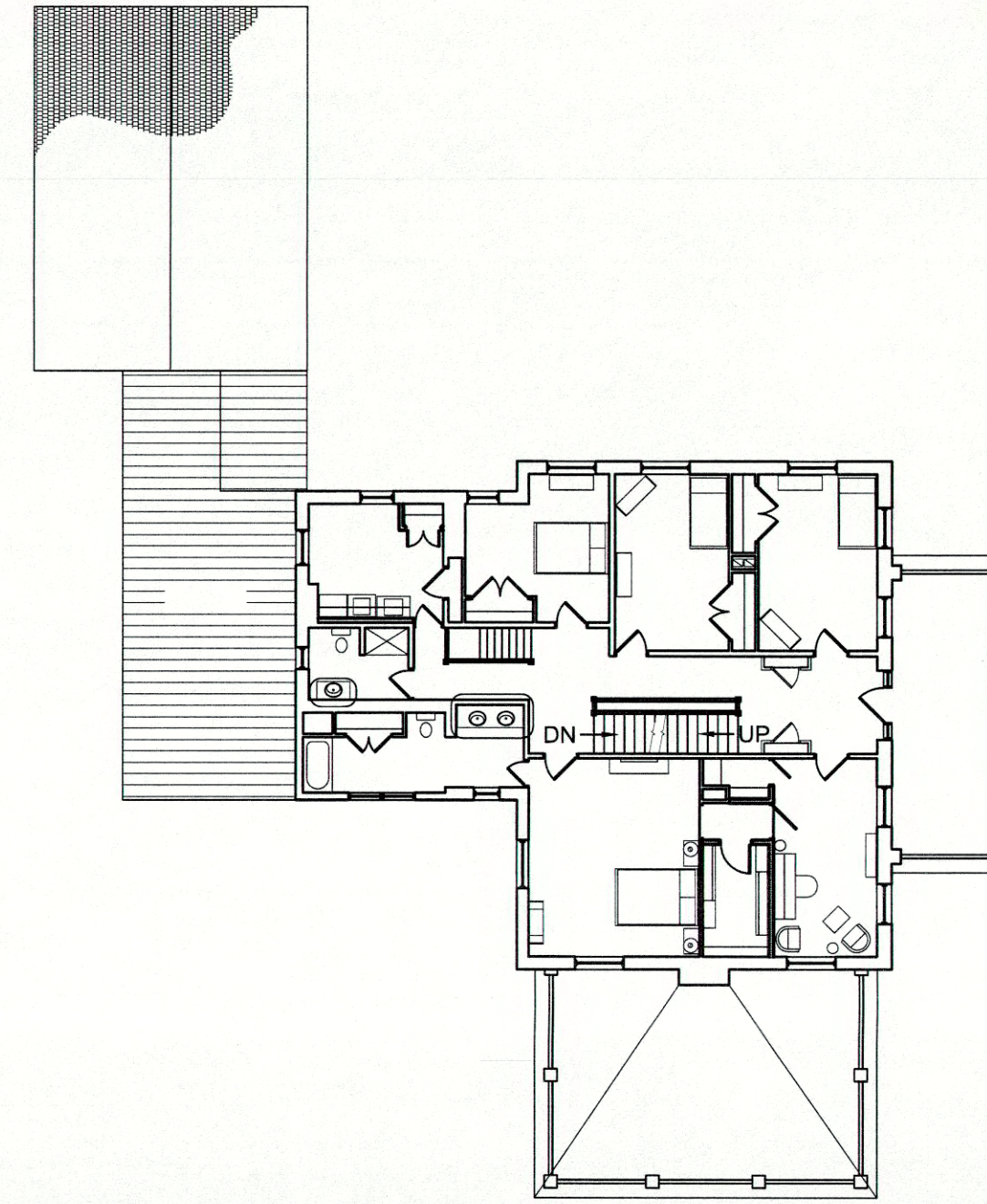
CS 1	COVER SHEET	MECHANICAL CONSTRUCTION
CS 2	LIFE SAFETY AND ADA	CONTRACT NO. SU-2010/6B .2
GENERAL CONSTRUCTION		
CONTRACT NO. SU-2010/6B .1		
MECHANICAL		
CIVIL		M0.1 COVER SHEET
C 1.1	SITE PLAN	MD 1.1 DEMOLITION FLOOR PLANS - HVAC
C 1.2	DETAILS	MD 1.2 DEMOLITION FLOOR PLANS - PIPING
ARCHITECTURAL		
A 1.1	DEMOLITION PLANS	M1.1 NEW FLOOR PLANS - HVAC
A 1.2	BASEMENT AND FIRST FLOOR PLANS	M1.2 NEW FLOOR PLANS - PIPING
A 1.3	SECOND AND THIRD FLOOR PLANS	M 3.1 MECHANICAL DETAILS & ATC
A 2.1	BUILDING ELEVATIONS	PLUMBING CONSTRUCTION
A 3.1	BUILDING SECTIONS	CONTRACT NO. SU-2010/6B .3
A 4.1	INTERIOR ELEVATIONS	PLUMBING
A 4.2	INTERIOR ELEVATIONS	P 0.1 COVER SHEET
A 5.1	WALL SECTIONS	DP 1.1 DEMOLITION PLANS
A 6.1	DETAILS	P 1.1 OVERALL PLANS
A 6.2	DETAILS	P 2.1 PART PLANS
A 7.1	SCHEDULES	P 3.1 PLUMBING DETAILS
STRUCTURAL		
S 1.1	STRUCTURAL NOTES	ELECTRICAL CONSTRUCTION
S 2.1	FOUNDATION PLAN	CONTRACT NO. SU-2010/6B .4
S 2.2	FIRST FLOOR FRAMING PLAN	ELECTRICAL
S 2.3	SECOND FLOOR/LOW ROOF FRAMING PLAN	E 0.1 COVER SHEET
S 2.4	THIRD FLOOR FRAMING PLAN	DE 1.1 PART PLANS - DEMO
S 3.1	FOUNDATION SECTIONS	E 1.1 OVERALL FLOOR PLANS
S 4.1	FRAMING SECTIONS	E 4.1 PART PLANS - NEW
S 6.1	TYPICAL DETAILS	E 6.1 SCHEDULES



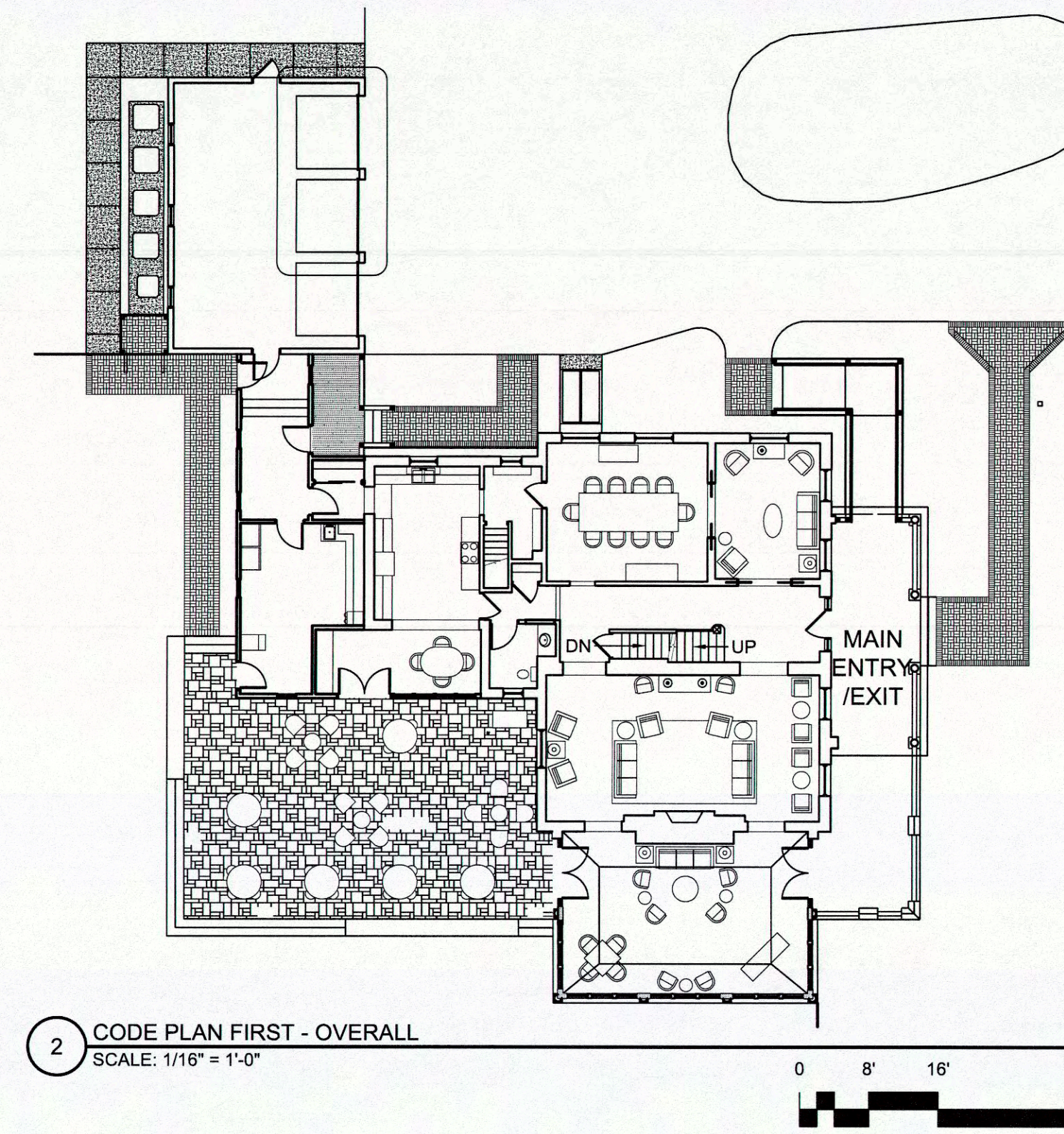
4 CODE PLAN THIRD - OVERALL
SCALE: 1/16" = 1'-0"



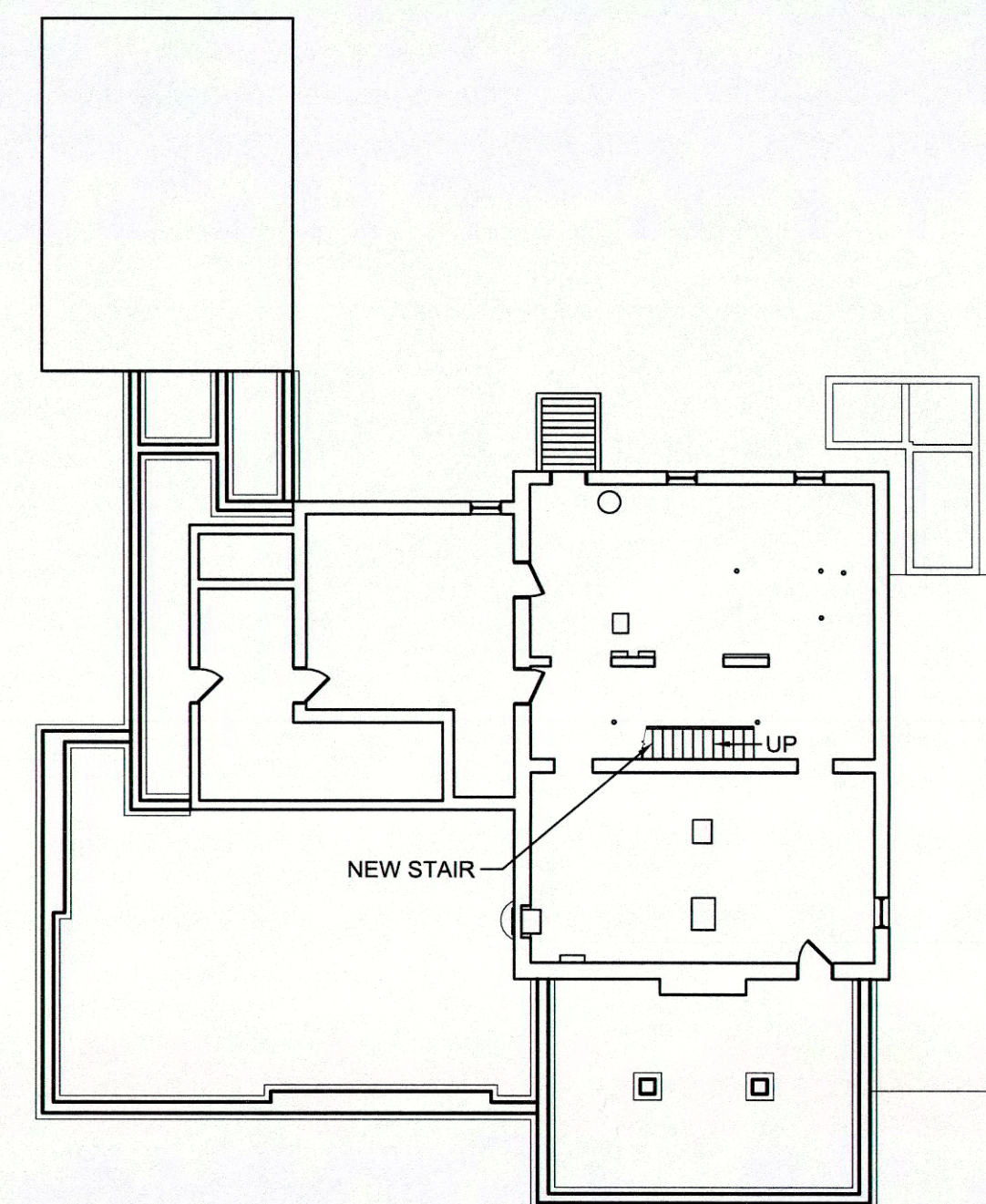
3 CODE PLAN SECOND - OVERALL
SCALE: 1/16" = 1'-0"



2 CODE PLAN FIRST - OVERALL
SCALE: 1/16" = 1'-0"



1 CODE PLAN BASEMENT - OVERALL
SCALE: 1/16" = 1'-0"



BUILDING CODE SUMMARY:

MARTIN HOUSE AT
SHIPPENSBURG UNIVERSITY
1871 OLD MAIN DRIVE
SHIPPENSBURG, PENNSYLVANIA 17257

1. MUNICIPAL ENFORCEMENT:
LABOR AND INDUSTRY

2. APPLICABLE CODES:
PA UCC / 2009 INTERNATIONAL RESIDENTIAL CODE

3. PROJECT DESCRIPTION:
THE PROJECT INCLUDES ALTERATIONS,
REHABILITATIONS, ADDITIONS, AND SYSTEM
UPGRADES NEEDED TO ADDRESS THE NEEDS OF THE
MARTIN HOUSE AS THE OFFICIAL PRIVATE
RESIDENCE OF THE UNIVERSITY PRESIDENT.

4. NOTE:
THE MARTIN HOUSE IS LISTED ON THE NATIONAL
REGISTER OF HISTORIC PLACES.



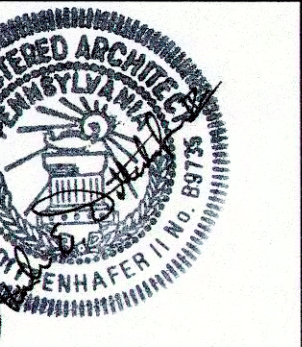
**Shippensburg
University**

PROJECT NO. SU - 2010/6B

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

Murphy & Dittenhafer
ARCHITECTS
800 North Centre Street, Baltimore, Maryland 21201
410-528-1900
226 West Market Street, York, Pennsylvania 17401
717-494-4261

CONSULTANTS

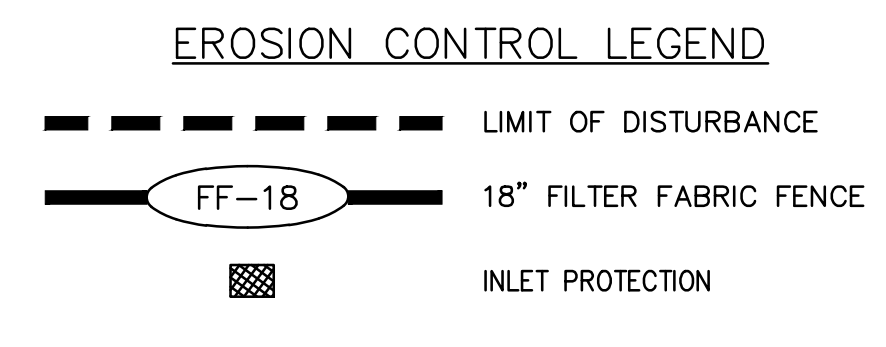
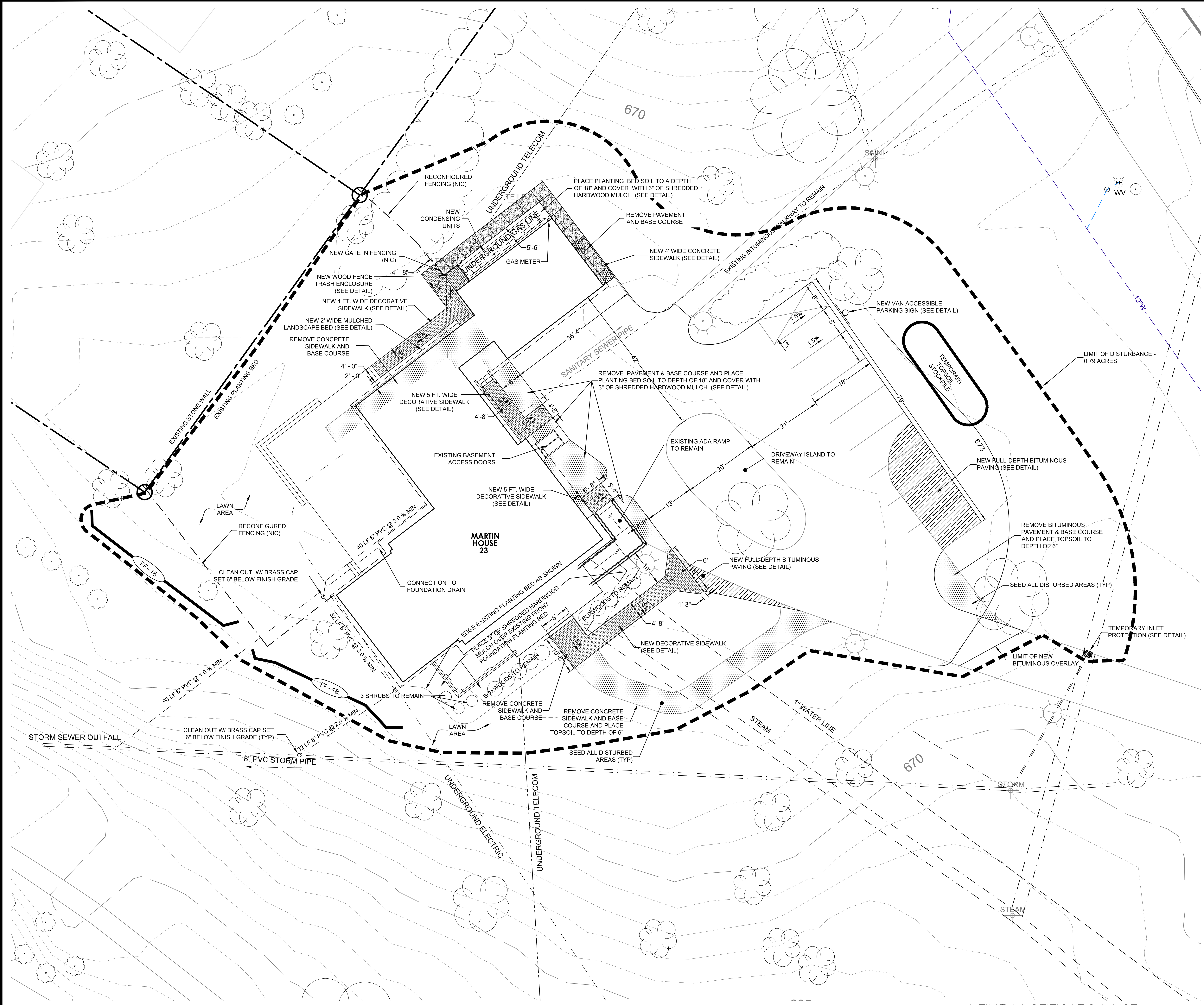


Rev	Description	By	Date
100% CONSTRUCTION DOCUMENTS			

COMMONWEALTH OF PENNSYLVANIA
STATE SYSTEM OF HIGHER EDUCATION
HARRISBURG, PENNSYLVANIA

System Rep:
Professional:
Consultant:
Authorized by:

Project: 10116 Date: 05/09/14
Drawn by: DLR Checked by: TRG
Drawing Number:
**BUILDING
CODE
SUMMARY**
CS-2



0 5' 10' 20'

1 MARTIN HOUSE - SITE PLAN
1" = 10'-0"

UTILITY NOTIFICATION LIST

PURSUANT TO THE REQUIREMENTS OF ACT 187 (1996), REFERRED TO AS THE UNDERGROUND UTILITY LINE PROTECTION LAW, WHICH AMENDED ACT 287 (1974) OF THE LEGISLATURE OF THE COMMONWEALTH OF PENNSYLVANIA, THE CONTRACTOR IS REQUIRED TO NOTIFY EACH UTILITY NAMED HERE, NOT LESS THAN THREE (3) NOR MORE THAN (10) WORKING DAYS PRIOR TO BEGINNING WORK. (800) 242-1776 SERIAL NUMBER 2014700250 DATE:03-11-2014 CONTACT SHIPPENSBURG UNIVERSITY FACILITIES FOR PRIVATE UTILITY LOCATION.

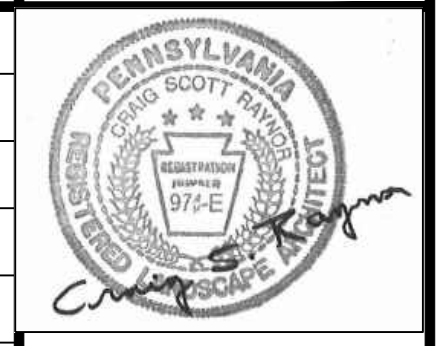


PROJECT NO. SU - 2010/6B

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE - SHIPPENSBURG UNIV.
SHIPPENSBURG, PENNSYLVANIA 17257

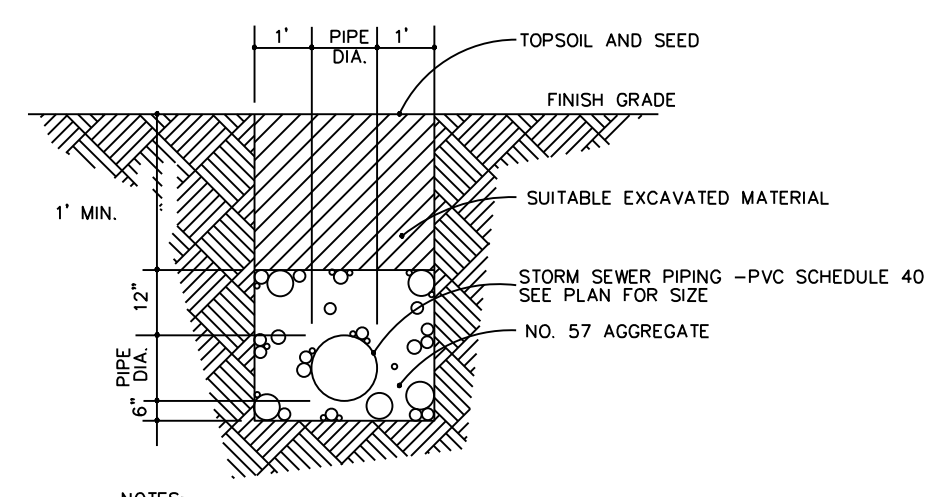
Murphy & Drenth
ARCHITECTS
860 North Charles Street, Baltimore, Maryland 21201
410-524-8323 Voice 410-524-8411 Fax 410-524-2448 Fax

Pennoni
PENNONI ASSOCIATES, INC.
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(717) 975-6481
CONSULTANTS

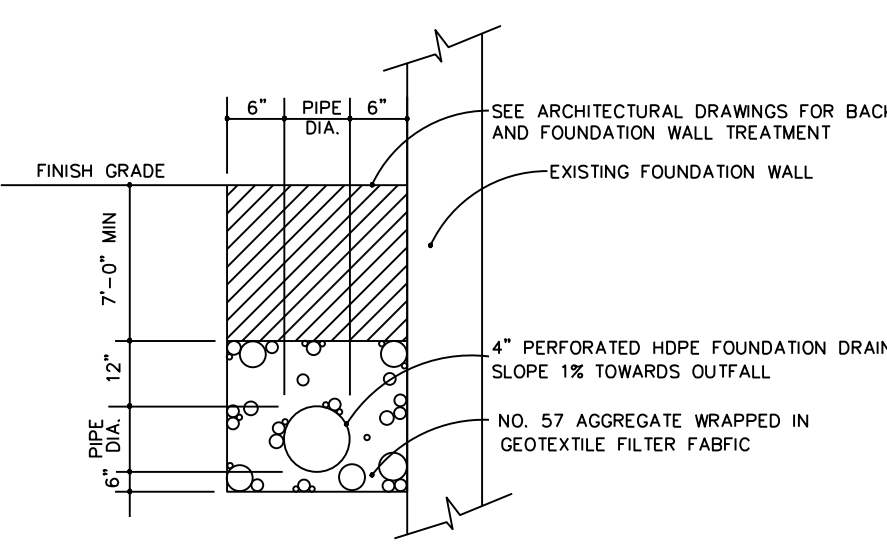


Rev	Description	By	Date
100% CONSTRUCTION DOCUMENTS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:			
Professional:			
Consultant:			
Authorized by:			

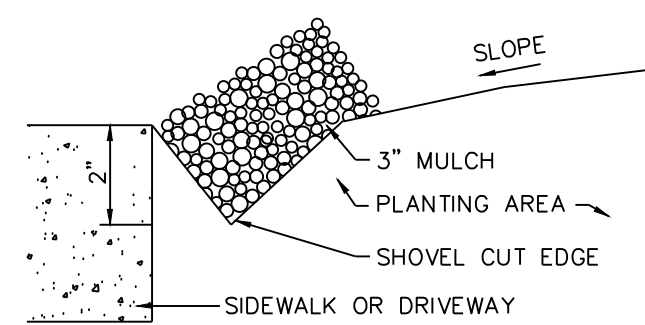
Project 10116	Date 05/09/14
Drawn by CSR	Checked by CSR
SITE PLAN	
Drawing Number C-1.1	



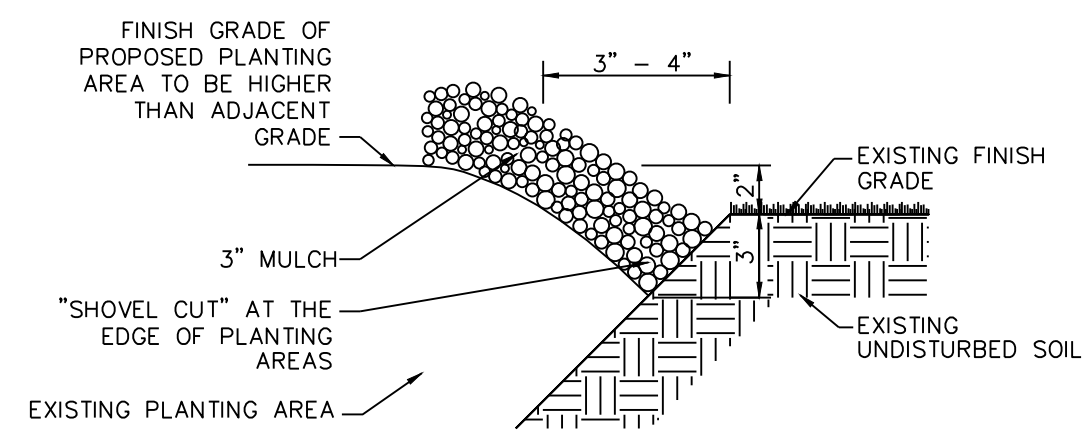
ROOF AND FOUNDATION DRAIN LATERAL TRENCH DETAIL
NO SCALE



FOUNDATION DRAIN DETAIL
NO SCALE



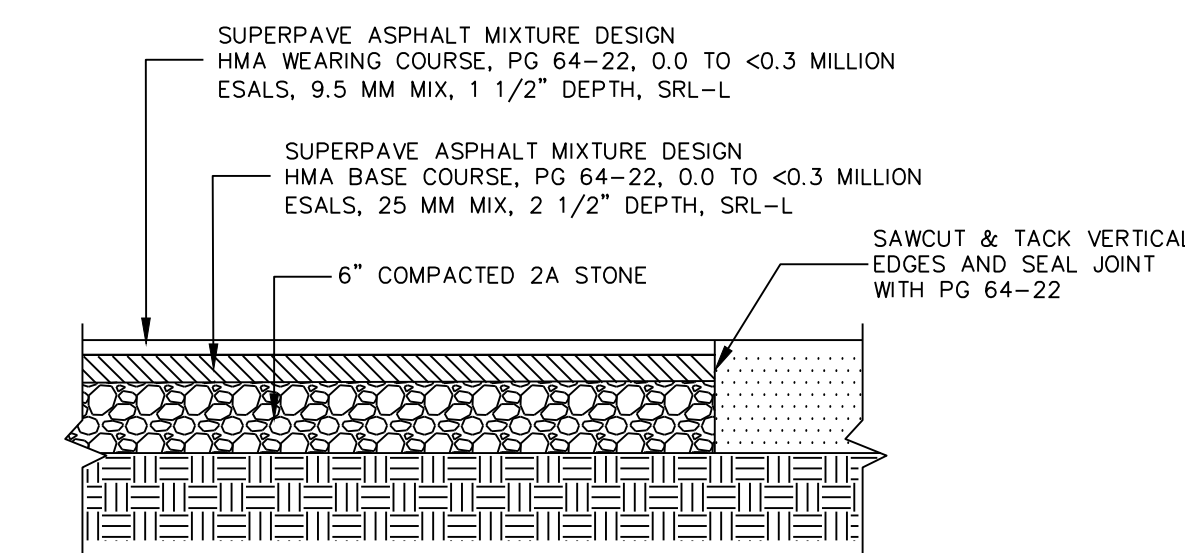
TYPICAL PLANTING BED EDGING DETAIL AT PAVING
NO SCALE



TYPICAL PLANTING BED EDGING DETAIL AT LAWN
NO SCALE

EROSION CONTROL NOTES

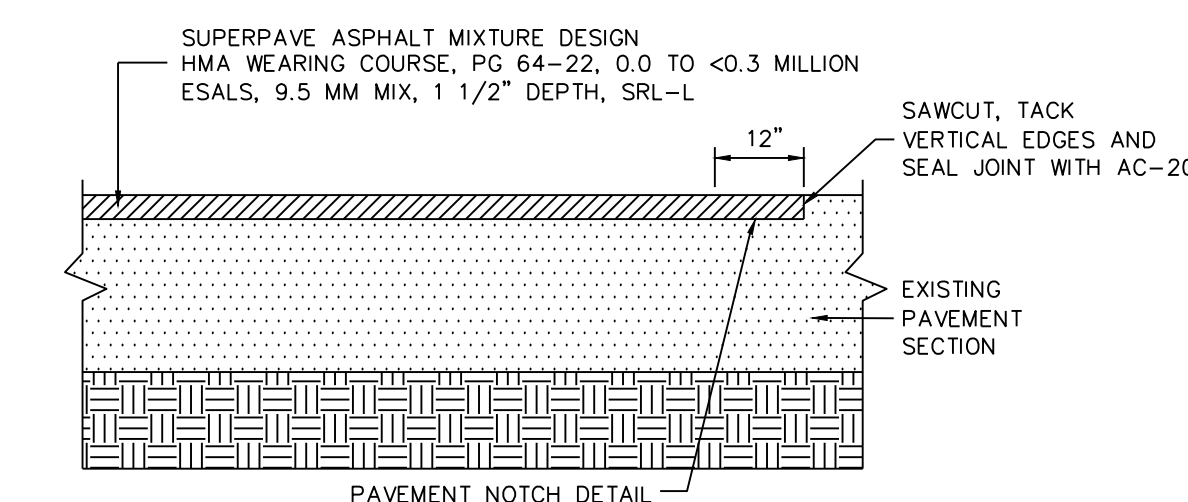
- PERFORM ALL WORK IN ACCORDANCE WITH CHAPTER 102, EROSION CONTROL REGULATIONS.
- INSTALL ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES PRIOR TO ANY DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAIN THEM UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- PERMANENTLY SEED ALL EXPOSED AREAS IMMEDIATELY AFTER FINAL GRADING. MULCH AS NECESSARY UNTIL SEEDING IS ESTABLISHED.
- SPRINKLE OR APPLY DUST SUPPRESSOR OR OTHERWISE KEEP DUST WITHIN TOLERABLE LIMITS AT THE SITE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER INSPECTION AND UPKEEP, CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROLS AND RELATED ITEMS ON SITE. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR ALL PERMANENT EROSION CONTROLS ON SITE.
- CLEAN SEDIMENTATION CONTROL DEVICES DURING CONSTRUCTION AS REQUIRED.
- ALL SEDIMENT REMOVED FROM A DEVICE WILL BE DISPOSED OF BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL WASTE IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SE., 271.1 ET SEQ., AND 287.1 ET SEQ.
- UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING AND REMULCHING MUST BE PERFORMED IMMEDIATELY IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- DISTURBED AREAS SHALL BE CONSIDERED PERMANENTLY STABILIZED WHEN AREA HAS A COMPLETE AND UNIFORM 70 PERCENT VEGETATIVE COVER OR IS COVERED WITH AN ACCEPTABLE BEST MANAGEMENT PRACTICE (BMP) WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION AFTER FINAL SITE HAS BEEN ACHIEVED. TEMPORARY EROSION AND SEDIMENT CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF CONTROLS MUST BE STABILIZED IMMEDIATELY.
- A COPY OF THIS PLAN SET MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.



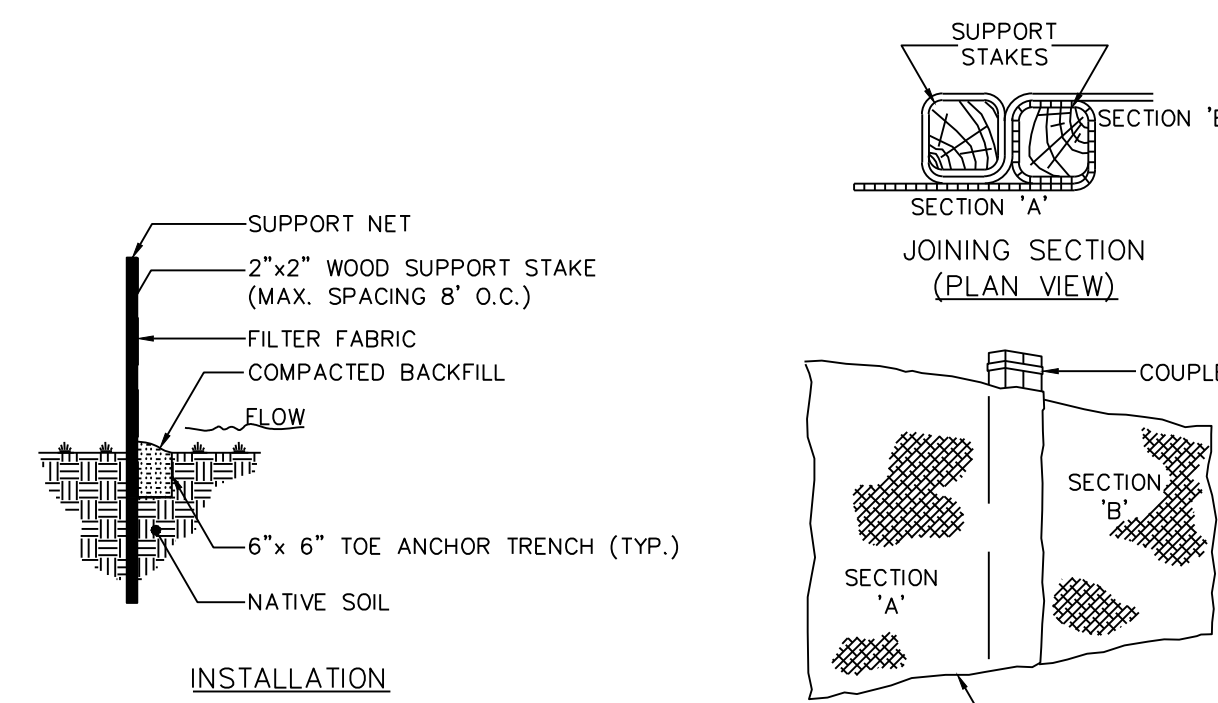
PAVING NOTES

- PROVIDE MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE REQUIREMENTS OF PADOT PUBLICATION 408, LATEST EDITION, FOR SUBGRADE, AGGREGATE, AND FLEXIBLE PAVEMENT.

BITUMINOUS FULL DEPTH PAVING SECTION
NO SCALE



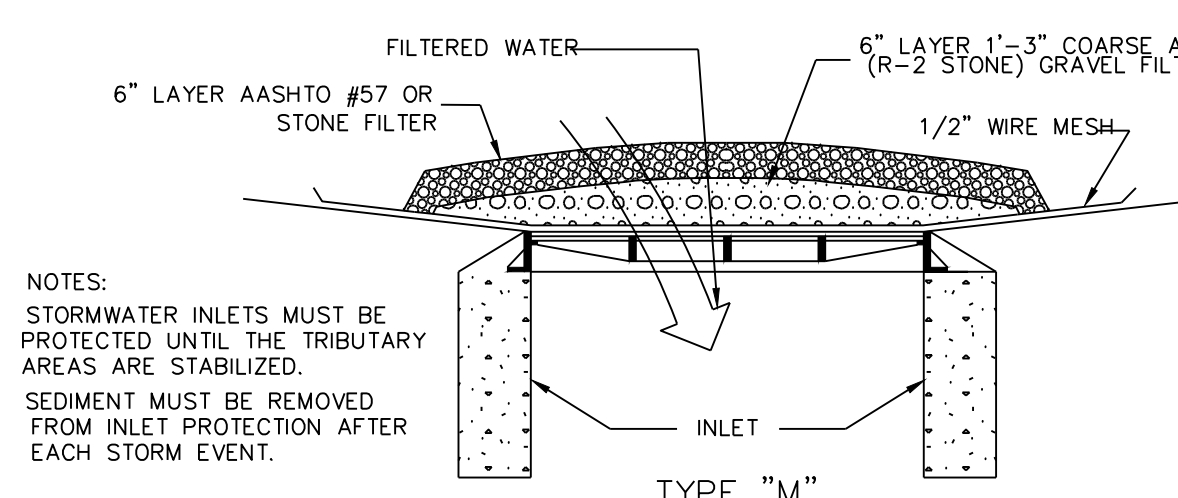
BITUMINOUS OVERLAY SECTION
NO SCALE



NOTES:

- FREQUENT INSPECTION SHALL BE MADE ON THE FILTER FABRIC FENCE. DAMAGED FENCES SHALL BE IMMEDIATELY REPLACED. SEDIMENT MUST BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHTS OF FENCE.
- SILT FENCE WHICH HAS BEEN TOPPED OR UNDERMINED IS TO BE REPLACED WITH A ROCK FILTER OUTLET.
- FILTER FABRIC FENCE MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST EXTEND AT LEAST 10 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

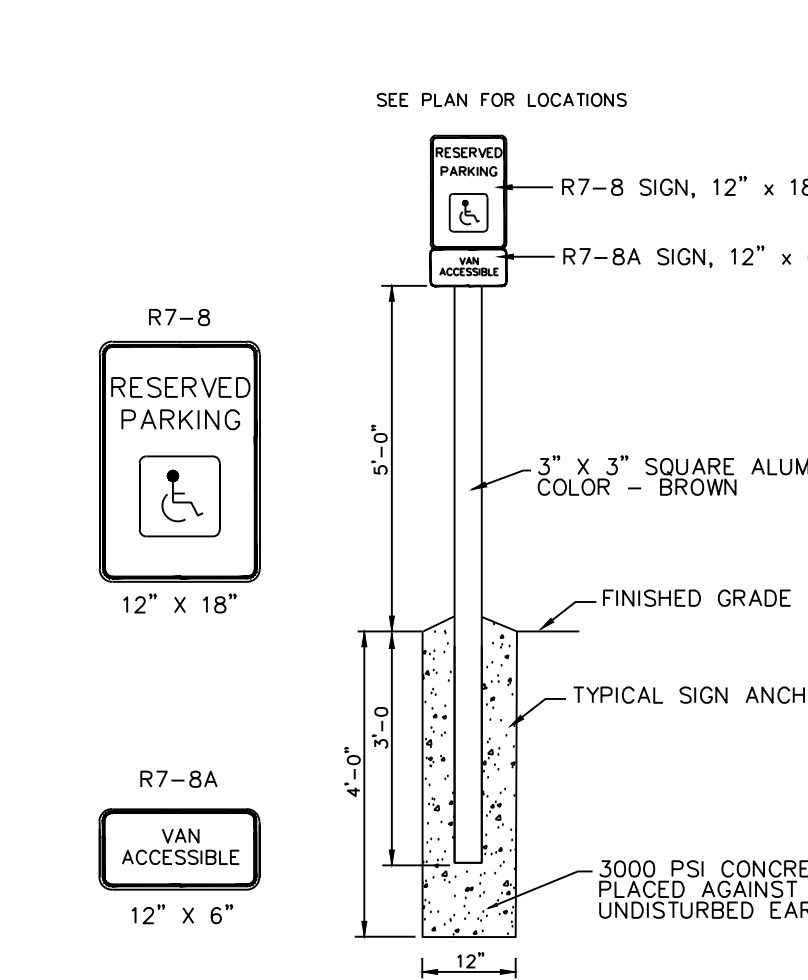
FILTER FABRIC FENCE - 18" HGT.
NO SCALE



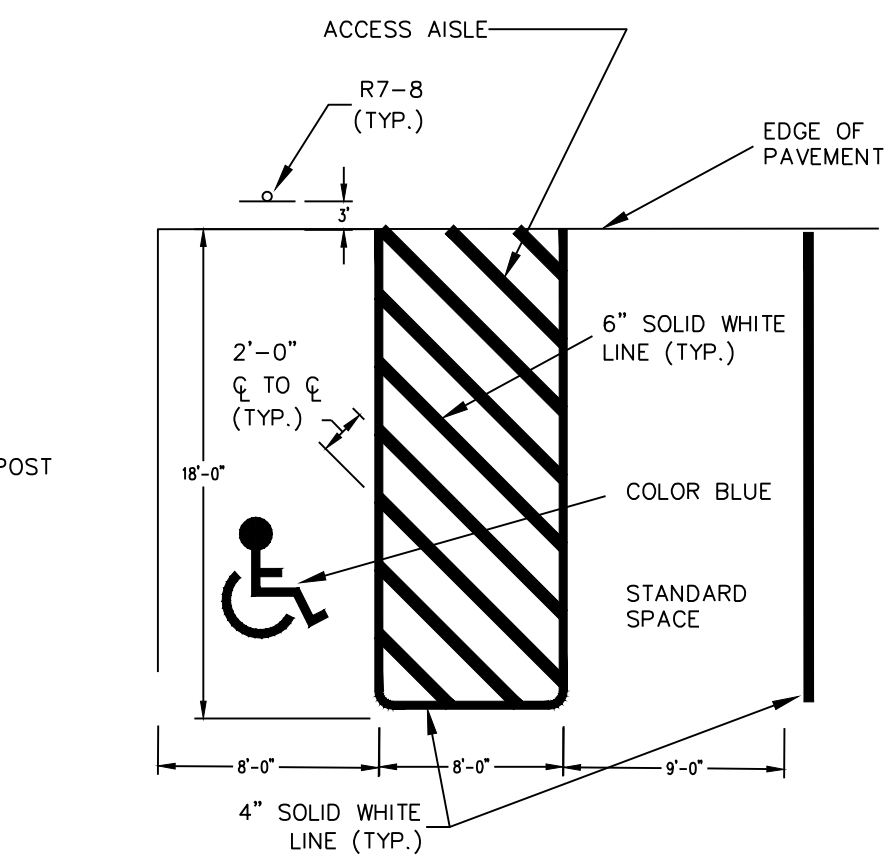
NOTES:

- STORMWATER INLETS MUST BE PROTECTED UNTIL THE TRIBUTARY AREAS ARE STABILIZED.
- SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM EVENT.

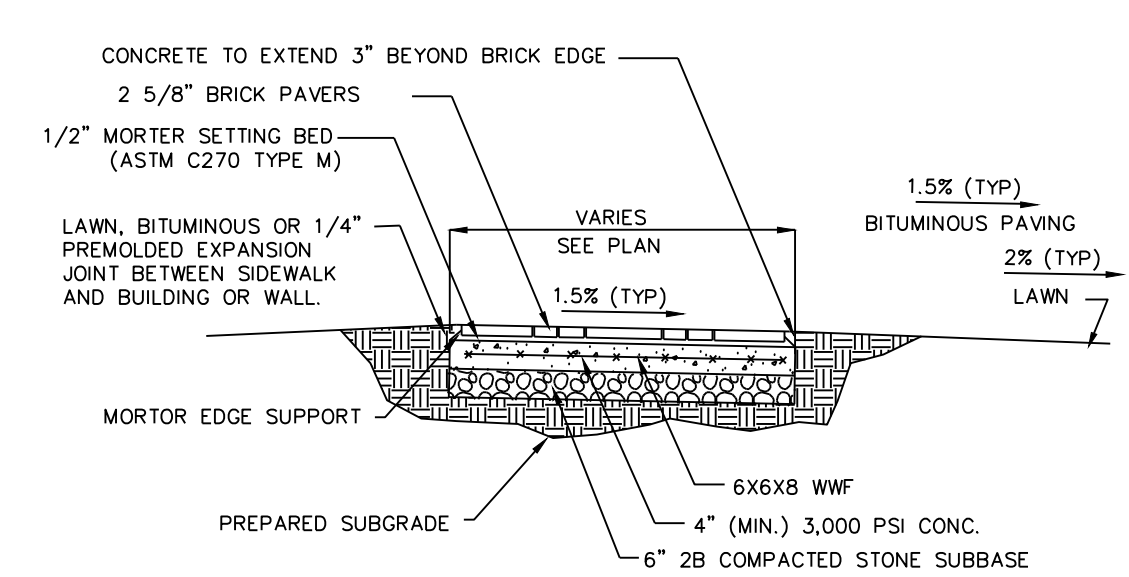
GRAVEL INLET PROTECTION
NO SCALE



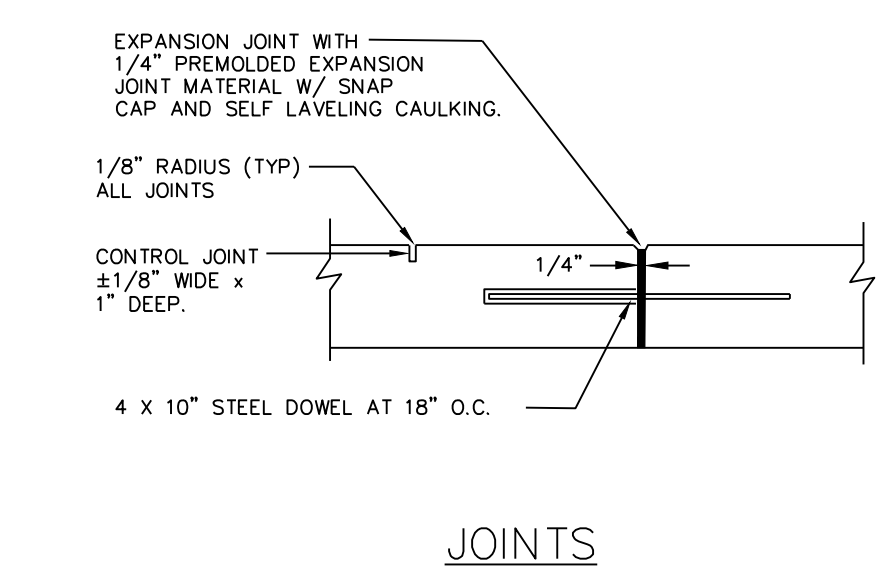
ACCESSIBLE PARKING SIGN
NO SCALE



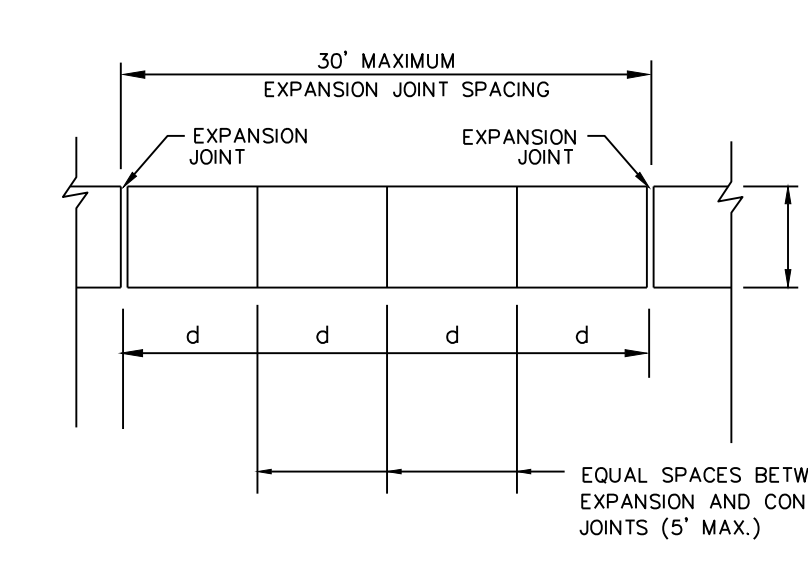
ACCESSIBLE PARKING LOT STRIPING
NO SCALE



DECORATIVE SECTION



CONCRETE SECTION

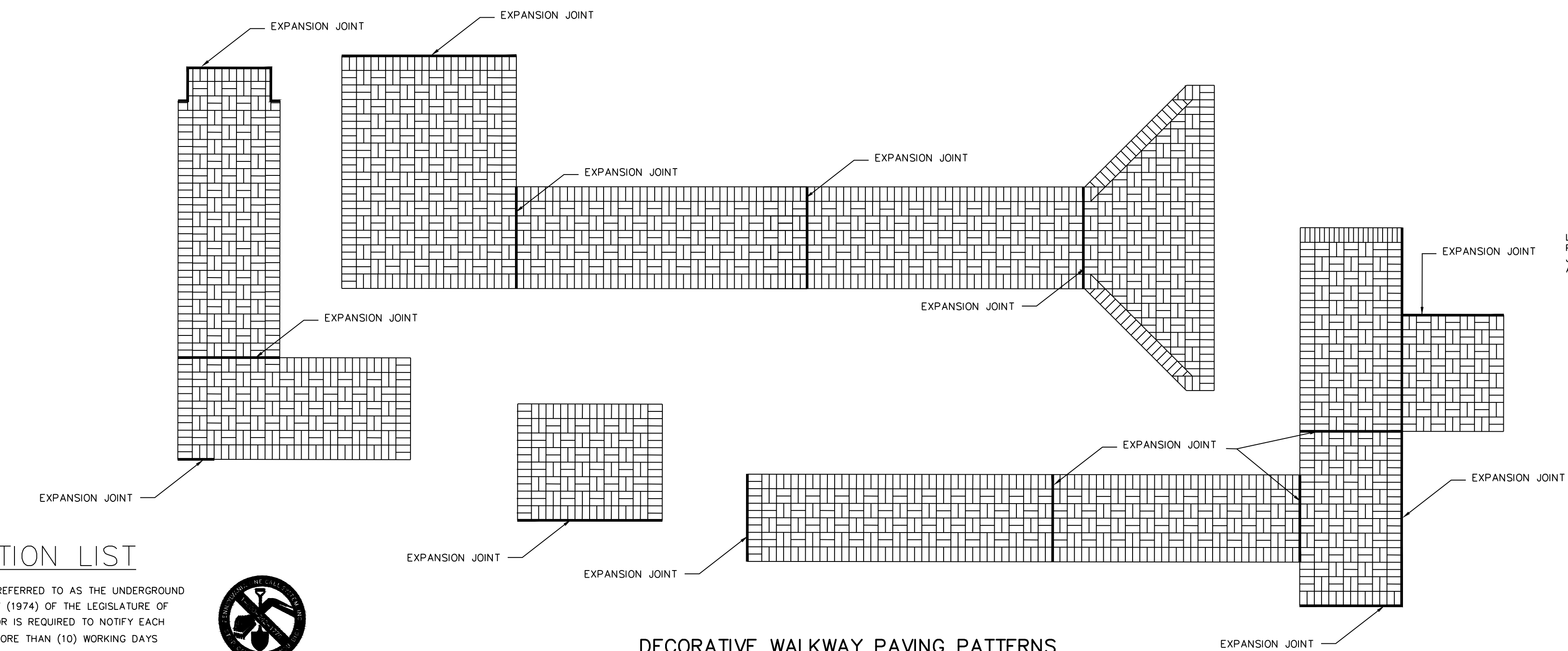


JOINT SPACING

SIDEWALK CONSTRUCTION NOTES:

- UTILIZE FIBER EXPANSION JOINT WITH SNAP CAP AND SELF LEVELING CAULKING (SIKAFLEX-ICLSL OR EQUAL) AT ALL EXPANSION JOINTS AND JUNCTION TO EXISTING WALKS.
- INSTALL DOWELED JOINTS AT ALL INTERFACES WITH EXISTING CONCRETE. UTILIZE 3/4" X 18" SMOOTH DOWELS @ 18" O.C. MAX.
- IN LAWN AREAS, PROVIDE TOPSOIL TO TOP OF SIDEWALK AFTER FINAL GRADE AND COMPACTION. CONTRACTOR IS RESPONSIBLE FOR SETTLEMENT NEXT TO WALKS RESULTING IN GREATER THAN 1" DROP.
- PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PADOT PUB. 408.

CONCRETE AND DECORATIVE SIDEWALK
NO SCALE



DECORATIVE WALKWAY PAVING PATTERNS
NO SCALE

UTILITY NOTIFICATION LIST

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Shippensburg University

PROJECT NO. SU - 2010/6B

Rev	Description	By	Date

100% CONSTRUCTION DOCUMENTS

COMMONWEALTH OF PENNSYLVANIA
STATE SYSTEM OF HIGHER EDUCATION
HARRISBURG, PENNSYLVANIA

System Rep:
Professional:
Consultant:
Authorized by:

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE - SHIPPENSBURG UNIV.
SHIPPENSBURG, PENNSYLVANIA 17257

Murphy & Dittenhafer
ARCHITECTS

860 North Charles Street, Baltimore, Maryland 21201
410-542-4823 Voice 410-542-4811 Fax
281 West Main Street, York, Pennsylvania 17403
717-842-2448 Fax



Pennoni

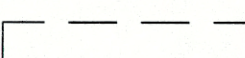
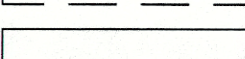
PENNONI ASSOCIATES, INC.
1215 MANOR DRIVE, SUITE 100
MECHANICSBURG, PA 17055
(717) 975-6481

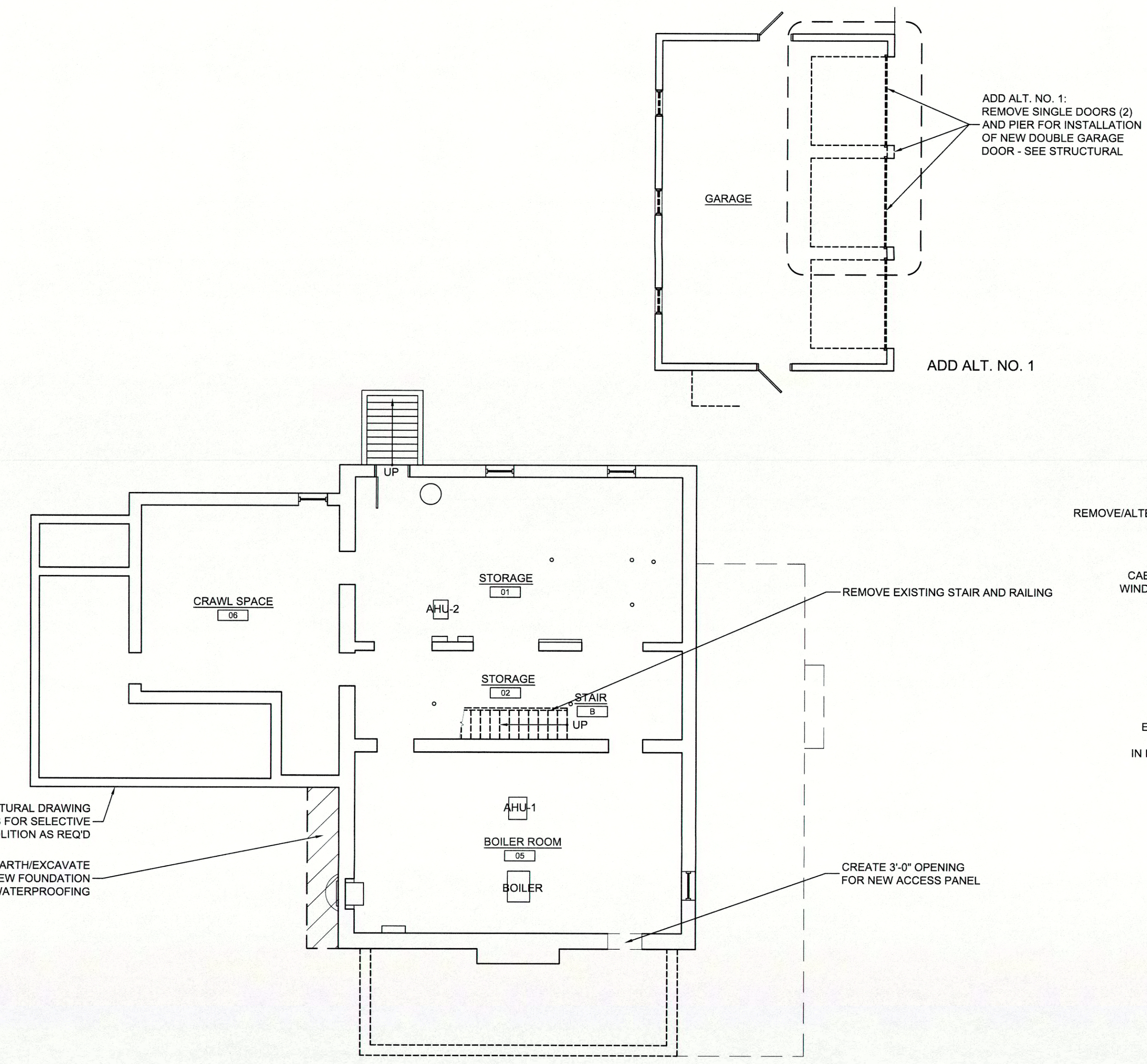
CONSULTANTS

SITE DETAILS

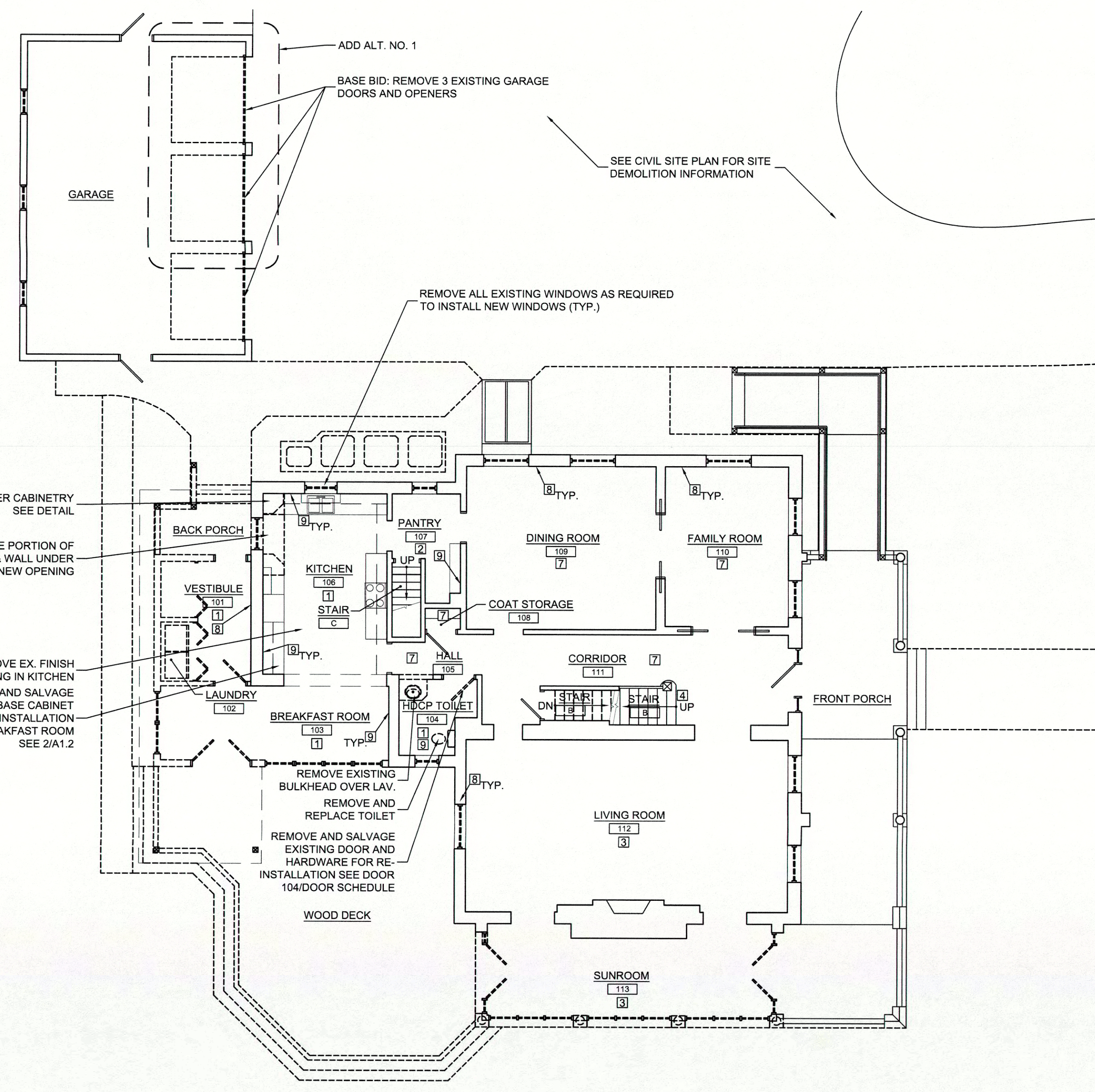
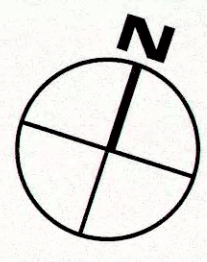
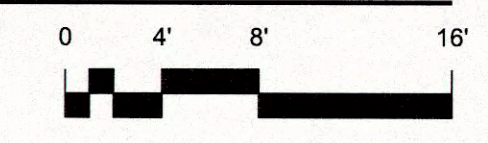
Project 10116 Date 05/09/14
Drawn by CSR Checked by CSR

C-1.2

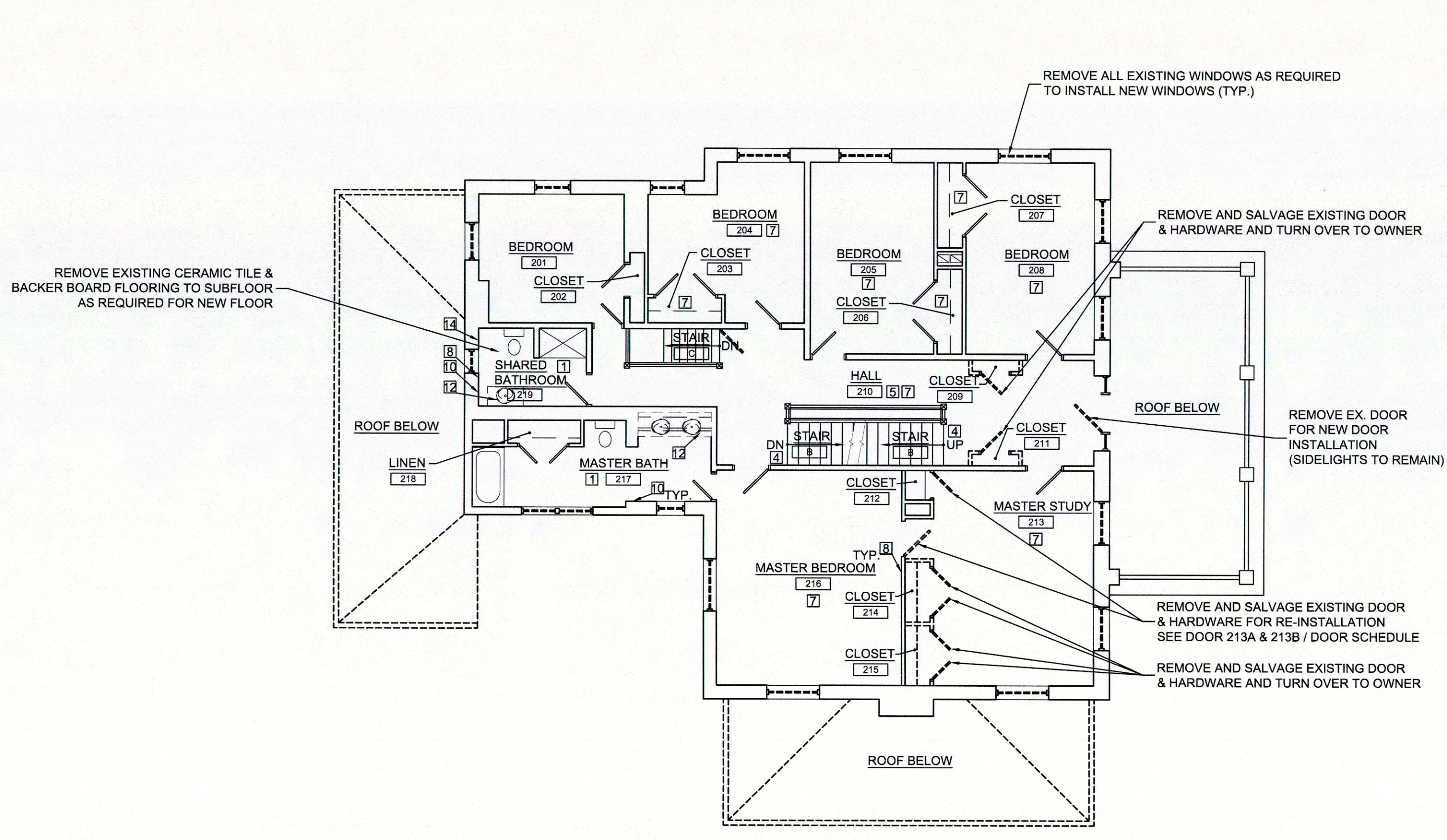
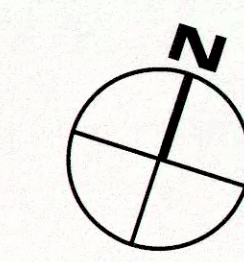
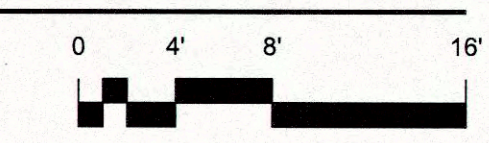
- DEMOLITION KEY:**
-  ITEMS TO BE DEMOLISHED & REMOVED
 -  ITEMS TO REMAIN
- GENERAL DEMOLITION NOTES:**
- A. PROTECT ALL EXISTING ITEMS, SURFACES & FINISHES TO REMAIN.
 - B. PROVIDE SHORING AND BEARING WHERE NECESSARY.
 - C. REMOVE ALL EXISTING WINDOWS AS REQUIRED TO INSTALL NEW WINDOWS (TYPICAL).
 - D. REMOVE AND SALVAGE EXISTING SECURITY SENSORS ON WINDOWS AND TURN OVER TO SHIPPENSBURG UNIVERSITY.
 - E. REMOVE AND SALVAGE EXISTING WINDOW TREATMENTS AND HARDWARE AND TURN OVER TO SHIPPENSBURG UNIVERSITY.
- DEMOLITION KEYNOTES:**
- [1] EXISTING SHEET VINYL TO BE REMOVED FOR NEW FLOOR
 - [2] EXISTING SHEET VINYL TO BE REMOVED, TO EXPOSE EXISTING WOOD FLOOR TO BE REFINISHED
 - [3] REMOVE EXISTING BOARDLOOM CARPET TO RECEIVE NEW CARPET PAD & CARPET
 - [4] REMOVE EXISTING STAIR RUNNER
 - [5] REMOVE EXISTING RUNNER
 - [6] REMOVE EXISTING WOOD FLOORING AND SHEATHING TO LEVEL FLOOR FRAMING (SEE STRUCTURAL)
 - [7] SAND AND PREPARE EXISTING WOOD FLOOR TO RECEIVE NEW STAIN
 - [8] REMOVE EXISTING WALL COVERINGS TO RECEIVE NEW PAINT
 - [9] REMOVE EXISTING WALL COVERINGS TO RECEIVE NEW WALL COVERINGS
 - [10] REMOVE EXISTING CERAMIC TILE TO RECEIVE NEW PAINT
 - [11] REMOVE RAISED FLOOR STRUCTURE
 - [12] REMOVE EXISTING VANITY SINK BASE TO RECEIVE TO NEW VANITY SINK BASE
 - [13] REMOVE EXISTING VANITY SINK BASE AND ALL PLUMBING FIXTURES TO RECEIVE NEW FLOORING
 - [14] REMOVE EXISTING CERAMIC TILE TO RECEIVE NEW TILE



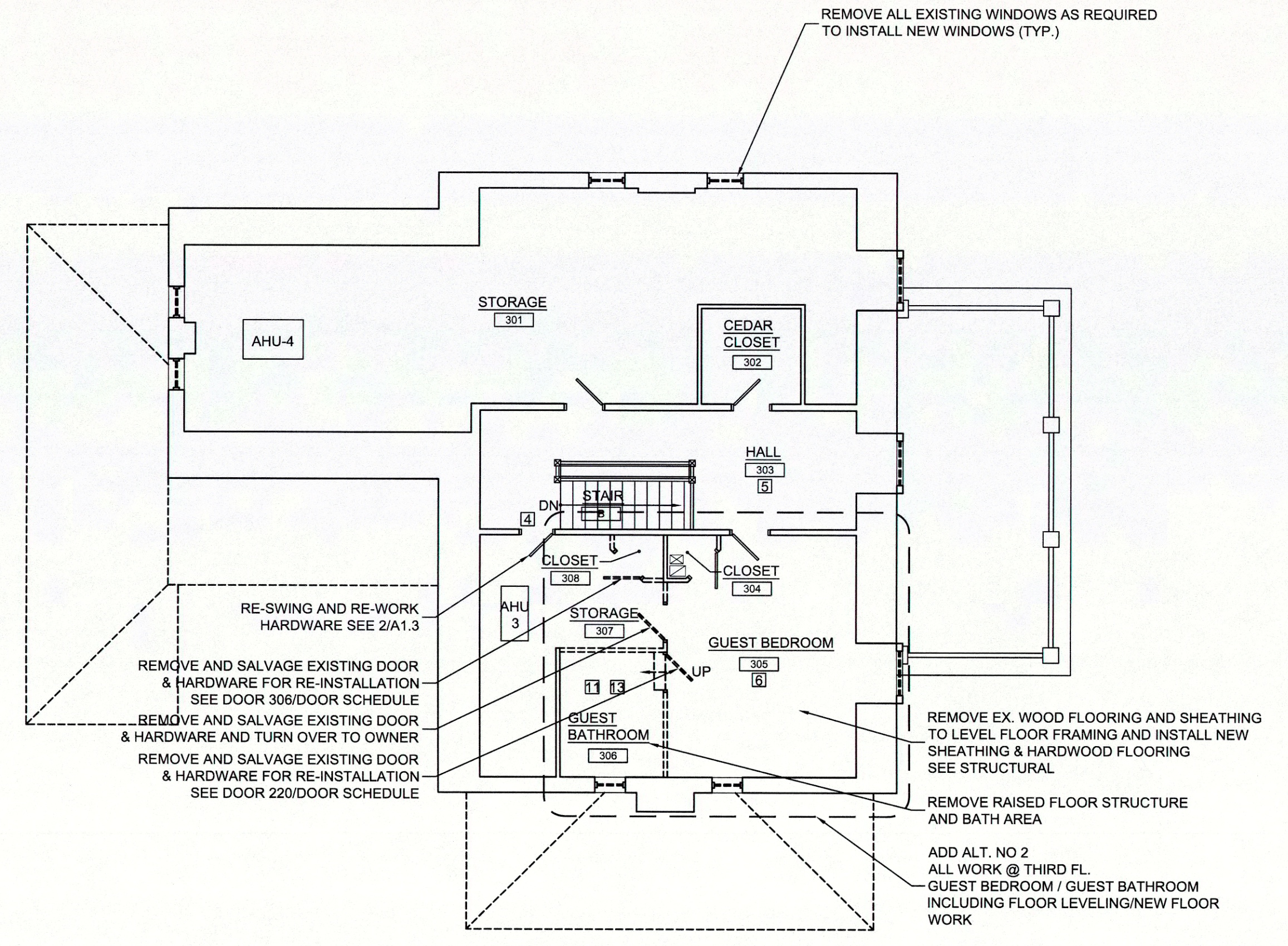
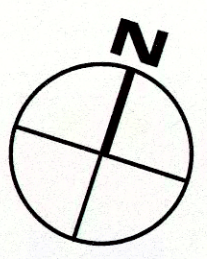
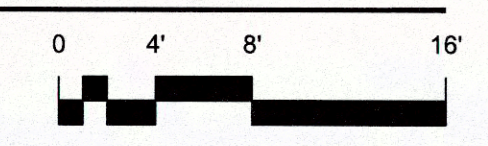
1 BASEMENT FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



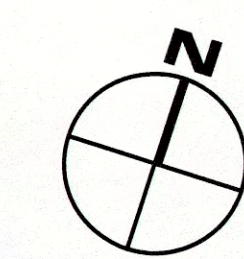
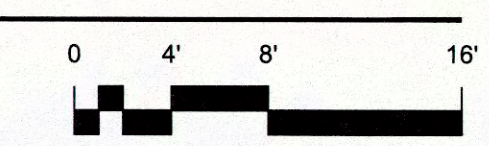
2 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



3 SECOND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



4 THIRD FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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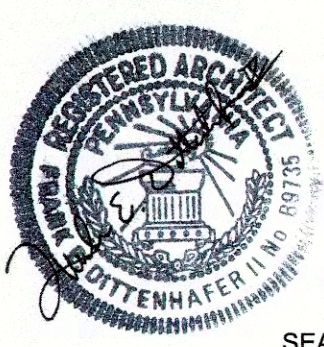
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Professional:

Consultant:

Authorized by:

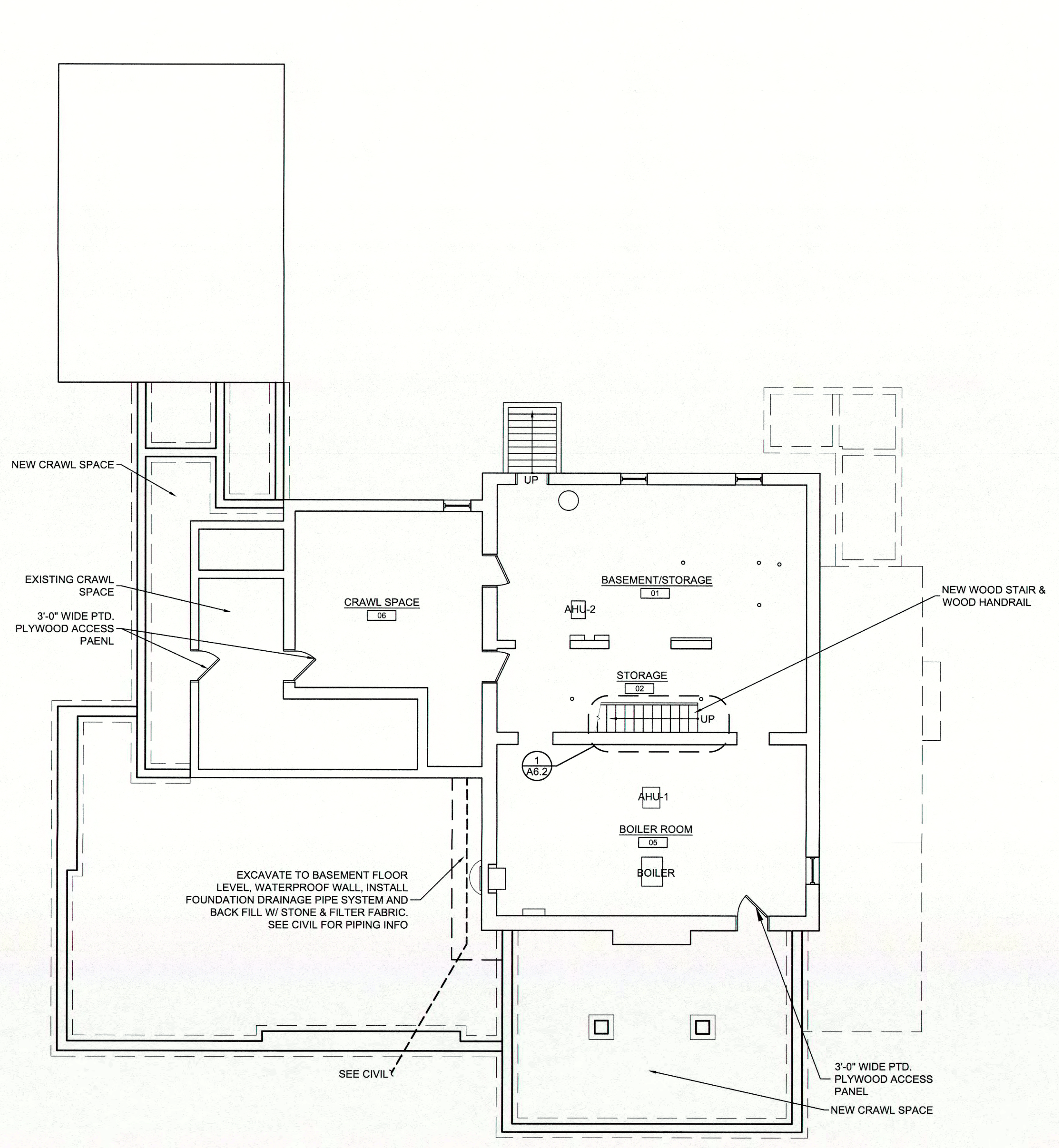
CONSULTANTS



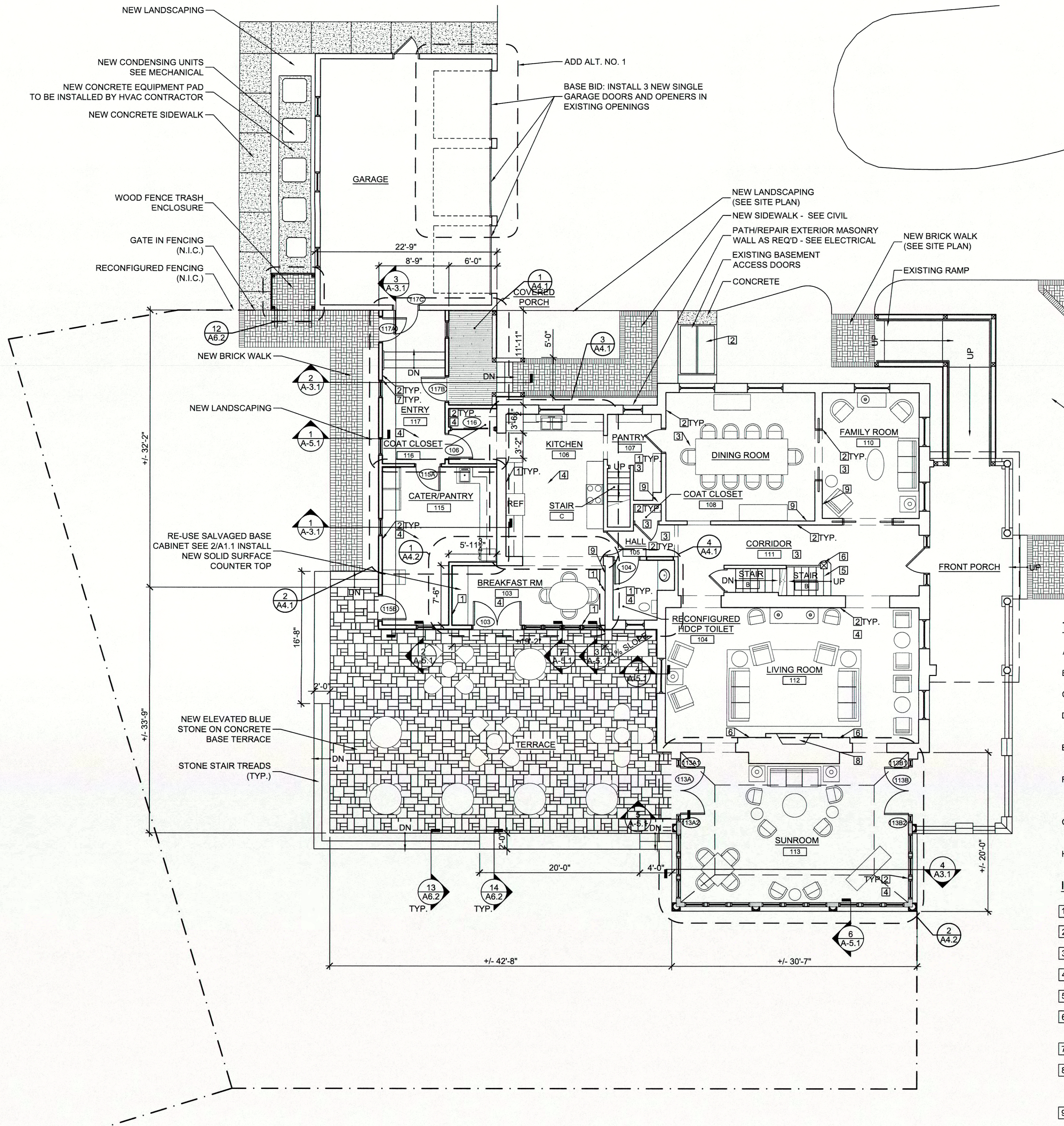
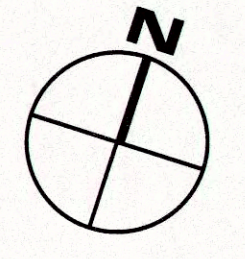
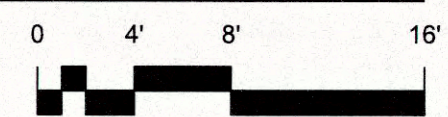
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Drawn by: DLR Checked by: TRG

Drawing Number: DEMO PLANS

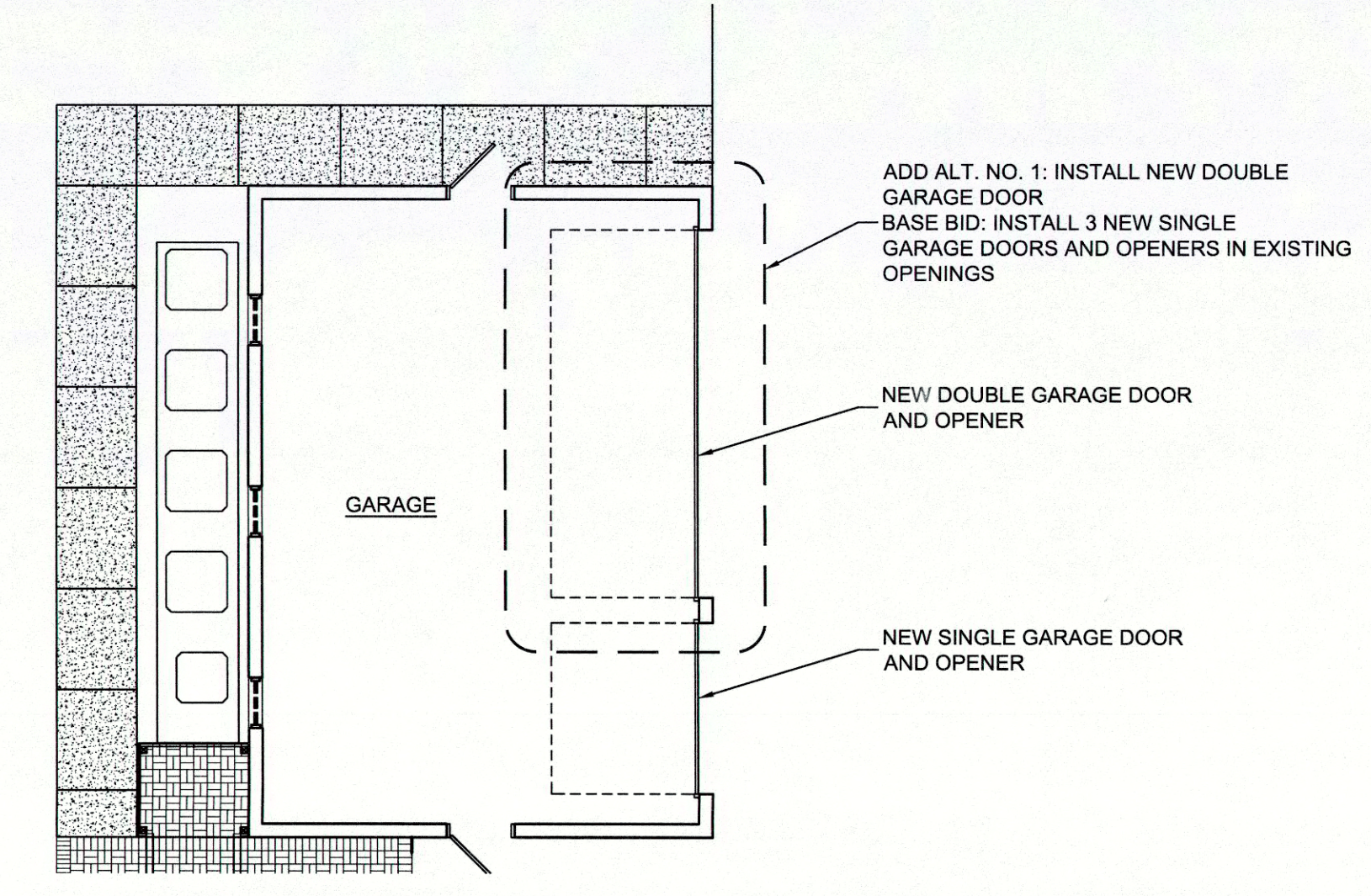
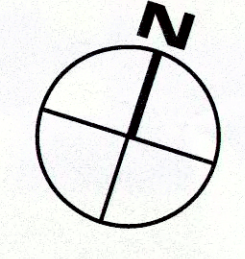
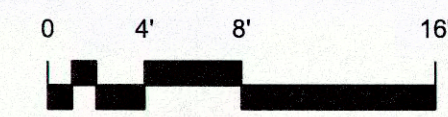
A-1.1



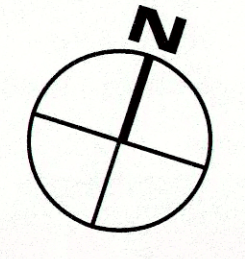
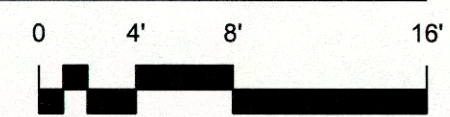
1 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ADD ALTERNATE NO. 1
SCALE: 1/8" = 1'-0"



- TYPICAL INTERIOR NOTES:**
- A. NEW WINDOW TREATMENTS PROVIDED BY OTHERS. N.I.C.
 - B. RE-PAINT ALL WINDOW TRIM AFTER INSTALLATION OF NEW WINDOWS.
 - C. RE-PAINT ALL CEILING AND TRIM WORK
 - D. NEW INTERIOR DOORS TO BE SOLID WOOD PANEL DOORS TO MATCH EXISTING. SEE SCHEDULE.
 - E. NEW EXTERIOR DOORS TO BE ALUMINUM CLAD WOOD TO MATCH WINDOWS.
 - F. NEW INTERIOR PARTITIONS (TYP.): 2X4 WOOD STUDS @ 16" O.C. WITH 5/8" GYP. BD. BOTH SIDES. SEE A.7.1 FOR FINISHES. INSTALL SOUND BATT'S @ TOILET 104 NEW WALL.
 - G. AT ALL EXISTING WALL COVERING AREAS TO RECEIVE NEW PAINT PATCH AND REPAIR WALLS AND PREP TO RECEIVE NEW PAINT
 - H. INSTALL 2" SLOPED WOOD THRESHOLD @ ALL MATERIAL TRANSITIONS AREA @ DOORWAYS
- INTERIOR KEYNOTES:**
- 1) INSTALL NEW WALL COVERING
 - 2) APPLY NEW PAINT
 - 3) REFINISH EXISTING OAK FLOORING
 - 4) INSTALL NEW FLOORING
 - 5) INSTALL NEW STAIR RUNNER WITH BRASS ROD HOLD DOWNS
 - 6) PREPARE STAINED WOOD WORK INCLUDING BALUSTERS AND CABINETS TO RECEIVE NEW STAIN
 - 7) BEAD-BOARD BELOW NEW PAINT ABOVE
 - 8) INSTALL APPROVED STAINLESS STEEL FLEXIBLE CHIMNEY FLUE LINER SYSTEM AND CAP WITH REQUIRED INSULATION PACKAGE. DURAVENT VENTINOX OR EQUAL.
 - 9) PATCH/REPAIR WALL, CEILING AND FLOOR AS REQ'D TO MATCH EXISTING ADJACENT SURFACES. SEE MECHANICAL, ELECTRICAL AND PLUMBING



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PROJECT NO. SU - 2010/6B

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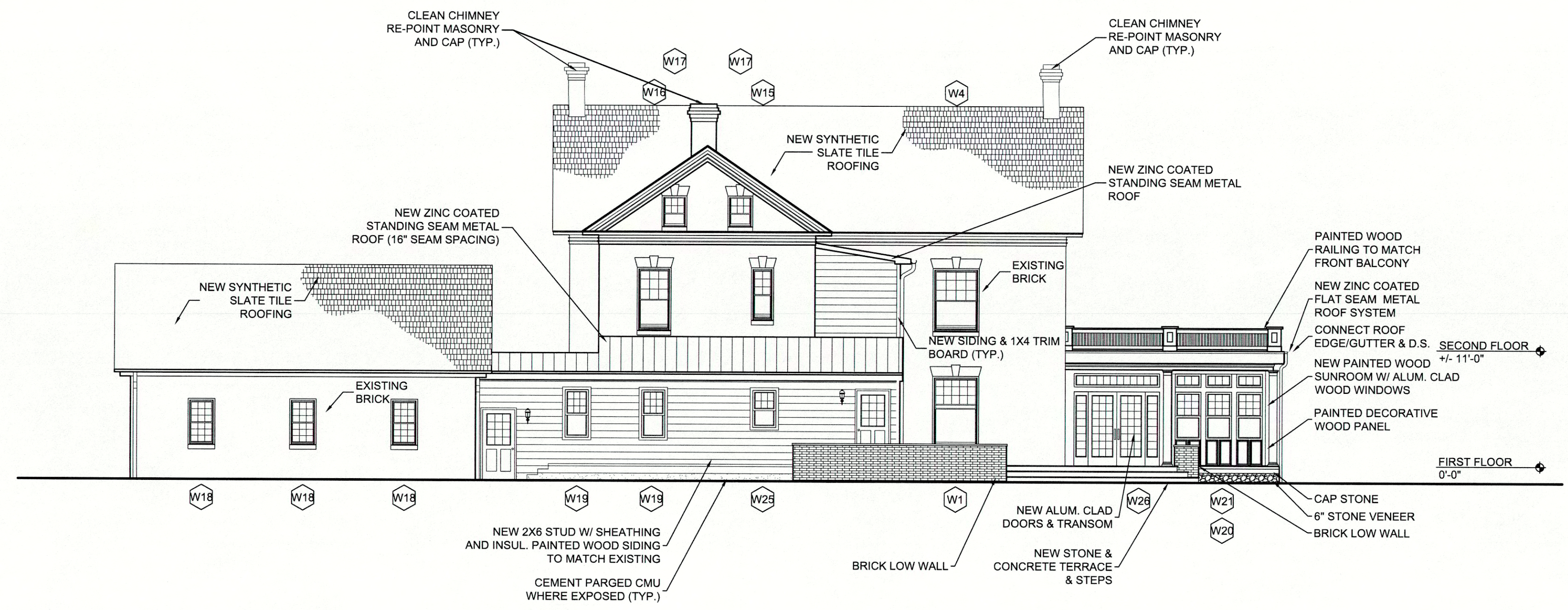
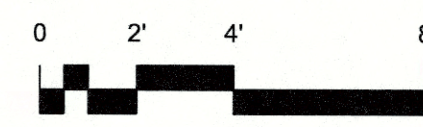
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10116	05/09/14
Drawn by	Checked by
DLR	TRG

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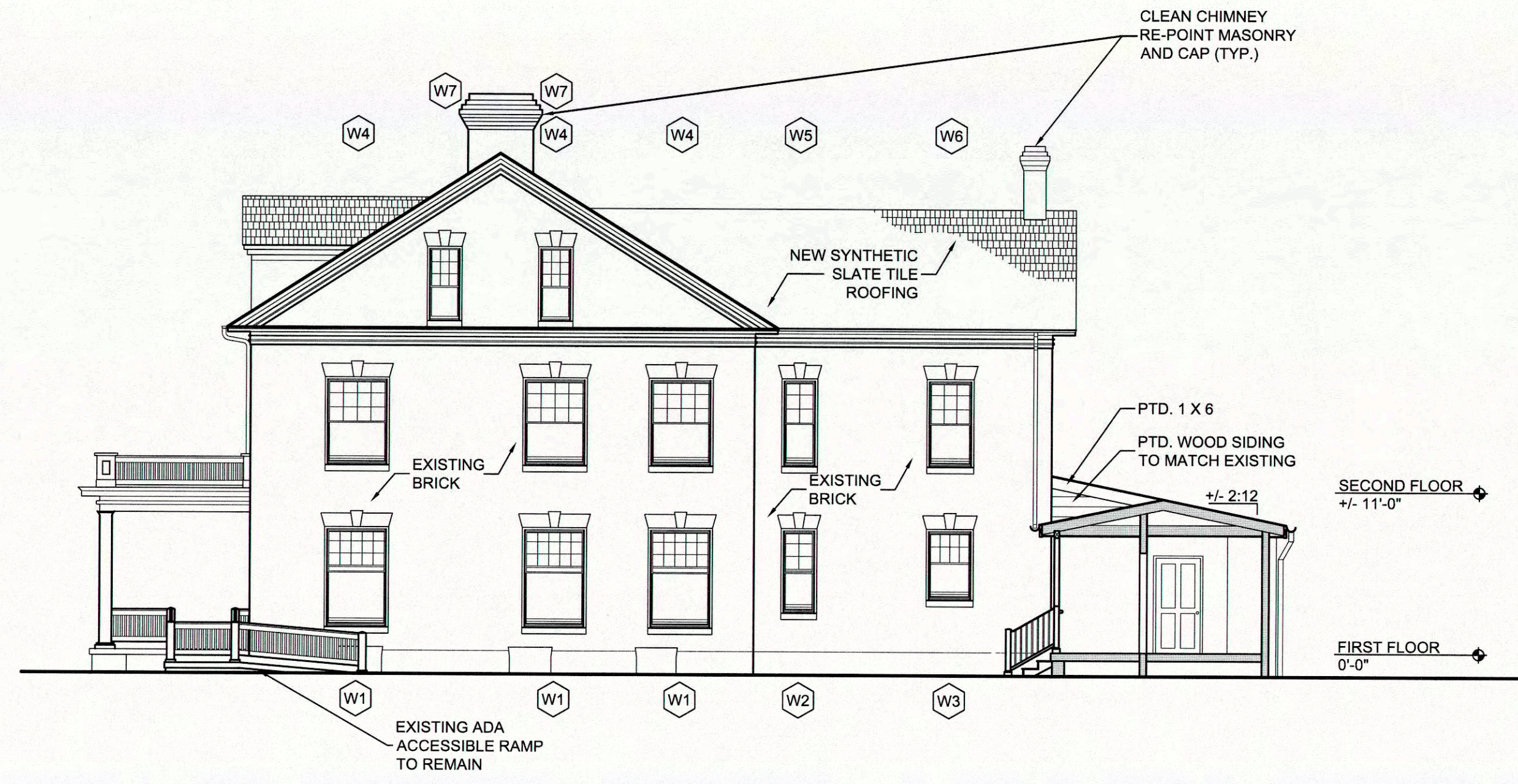
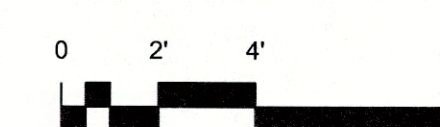
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BASEMENT & FIRST FLOOR PLAN
A1.2



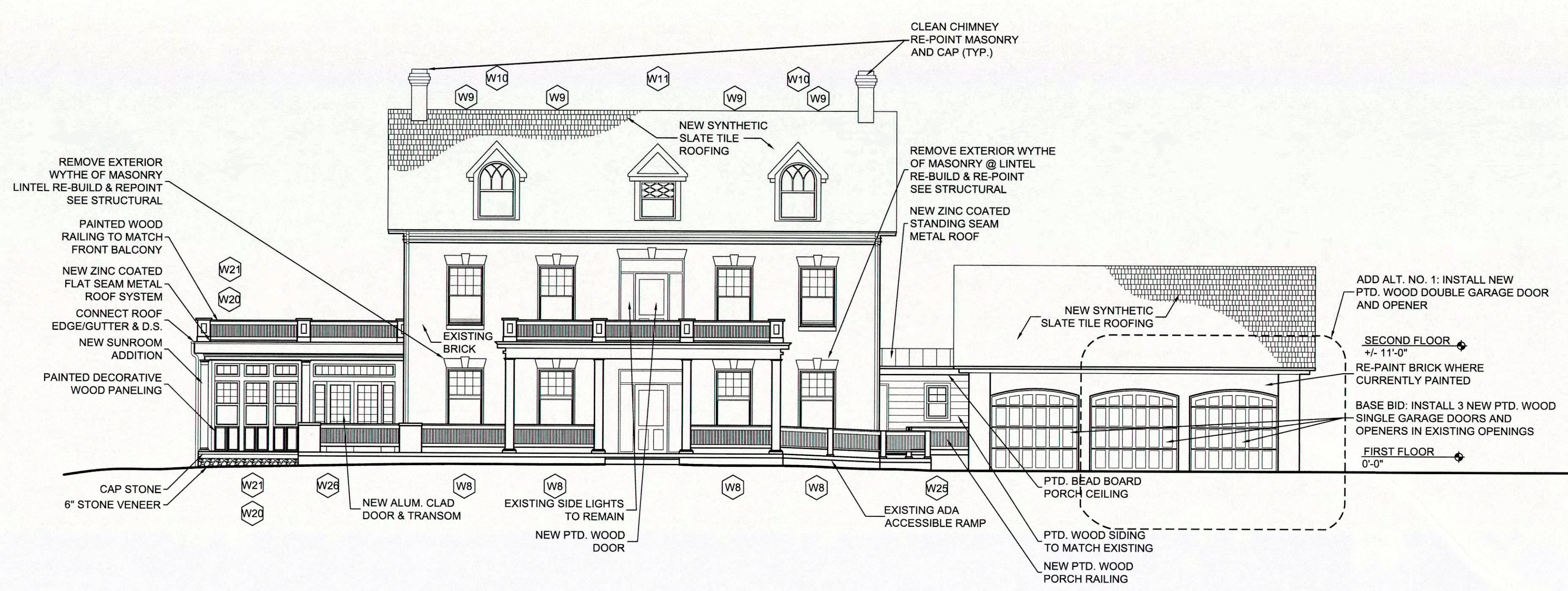
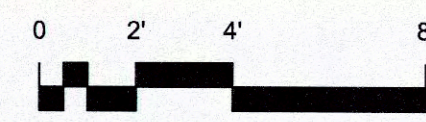
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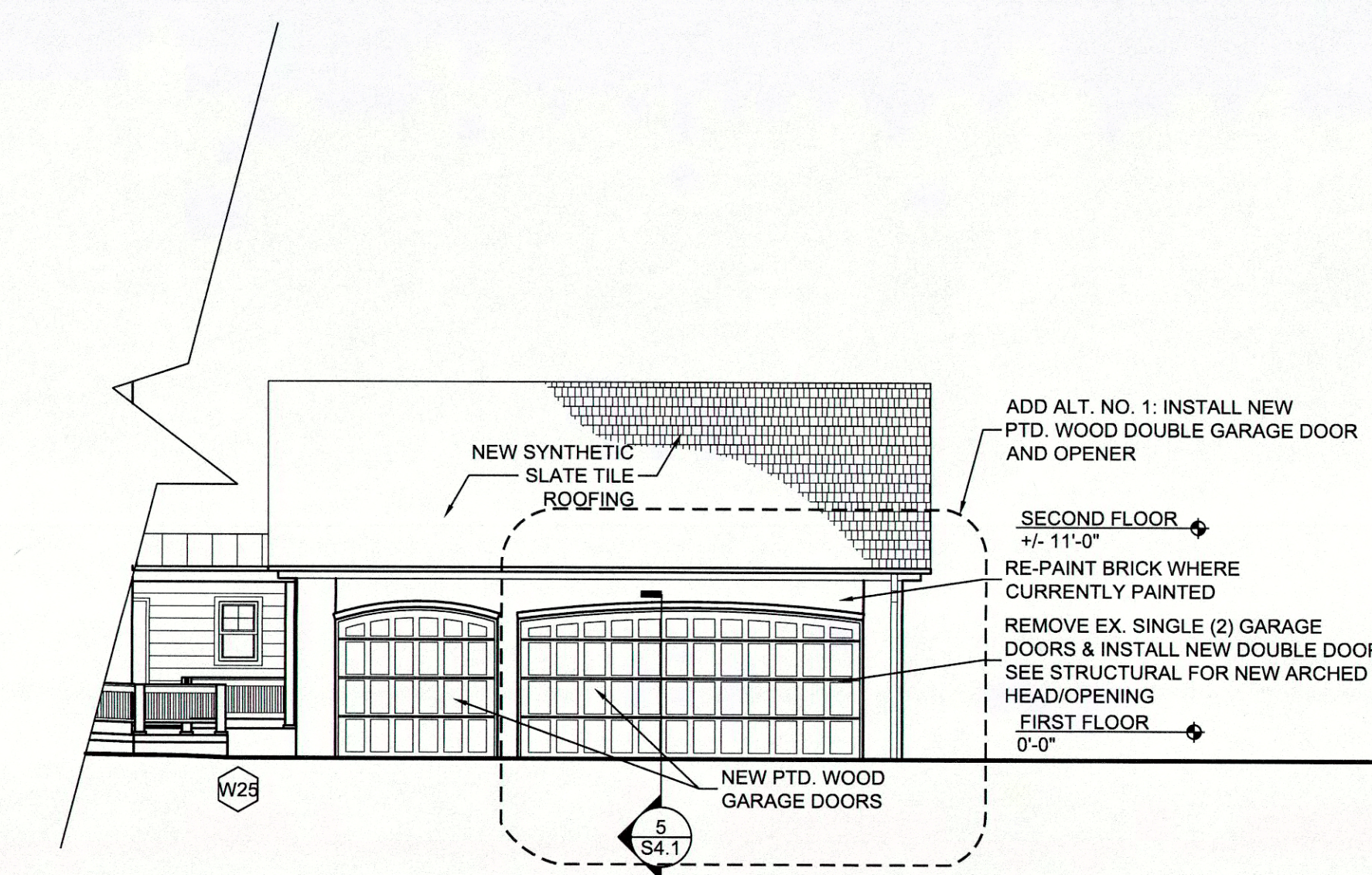
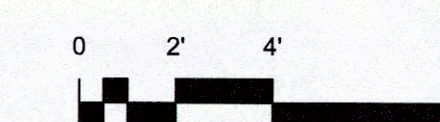
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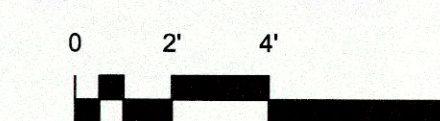
3 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



4 EAST ELEVATION
SCALE: 1/8" = 1'-0"



5 ADD ALTERNATE NO. 1
SCALE: 1/8" = 1'-0"



- TYPICAL EXTERIOR GENERAL NOTES:**
- CURRENT ROOF SYSTEM SHALL BE REMOVED TO SHEATHING. INSTALL NEW SYSTEM WITH UNDERLAYMENT, ICE AND WATER SHIELD AND ZINC COATED COPPER VALLEY AND OTHER FLASHINGS AS WHERE REQUIRED.
 - INSTALL NEW PRE-FINISHED PAINTED ALUM. HALF-ROUND GUTTER AND ROUND DOWNSPOUT SYSTEM.
 - CRACKS IN BRICK JOINTS SHALL BE RAKED OF LOOSE MORTAR AND RE-POINTED WITH A MATCHING MORTAR OF THE SAME/SIMILAR HARDNESS OF EXISTING MORTAR. SEE STRUCTURAL.
 - REPLACE ALL EXISTING WINDOWS WITH ALUMINUM CLAD WOOD WINDOWS. SEE SHEETS A-6.1, A-6.2 AND A-7.1
 - CLEAN ALL HOUSE AND GARAGED BRICK/MASONRY FACADES: BRUSH WITH MILD DETERGENT SYSTEM APPLIED PER MANUFACTURERS RECOMMENDED PROCEDURES; SURE-CLEAN OR EQUAL



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ARCHITECTS
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410-325-2823 Voice 410-325-4214 Fax 717-442-2489 Fax

CONSULTANTS

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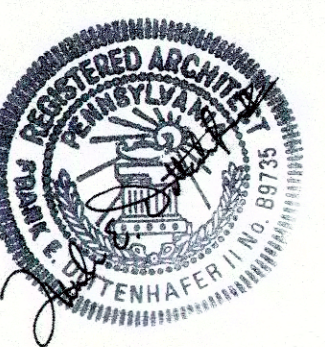
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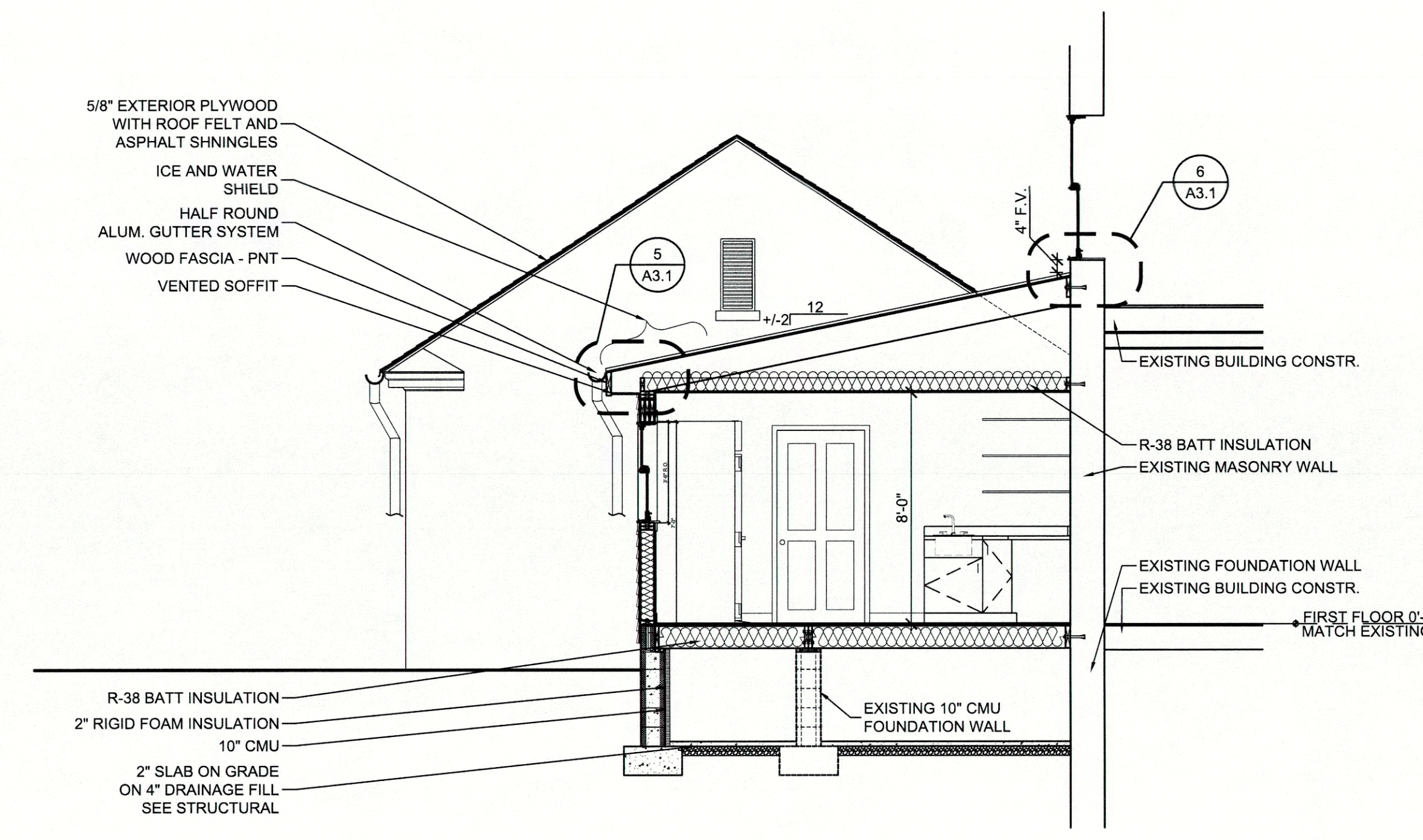
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Professional:
Consultant:
Authorized by:

Project 10116 Date 05/09/14
Drawn by DLR Checked by TRG

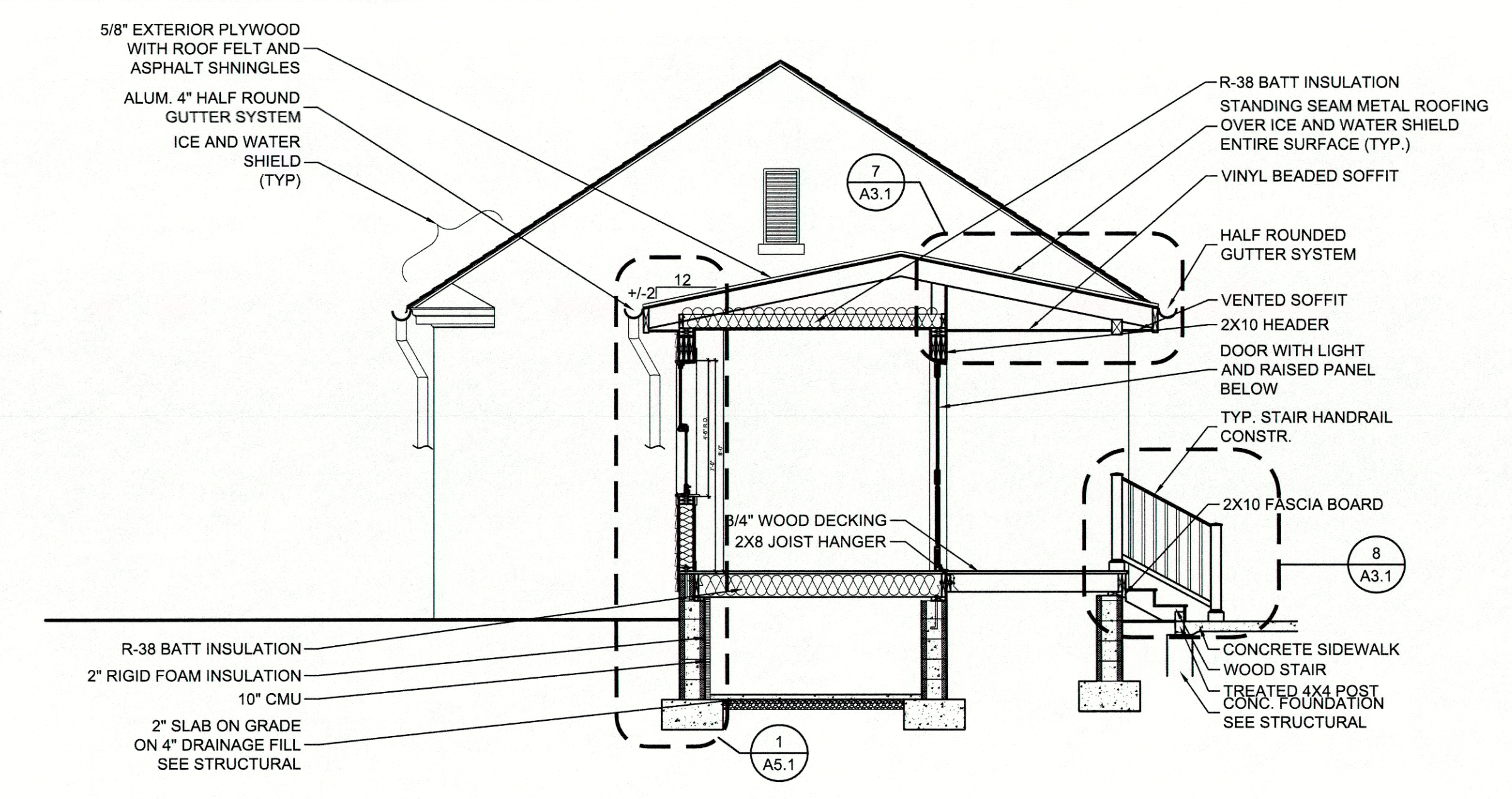
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A-2.1

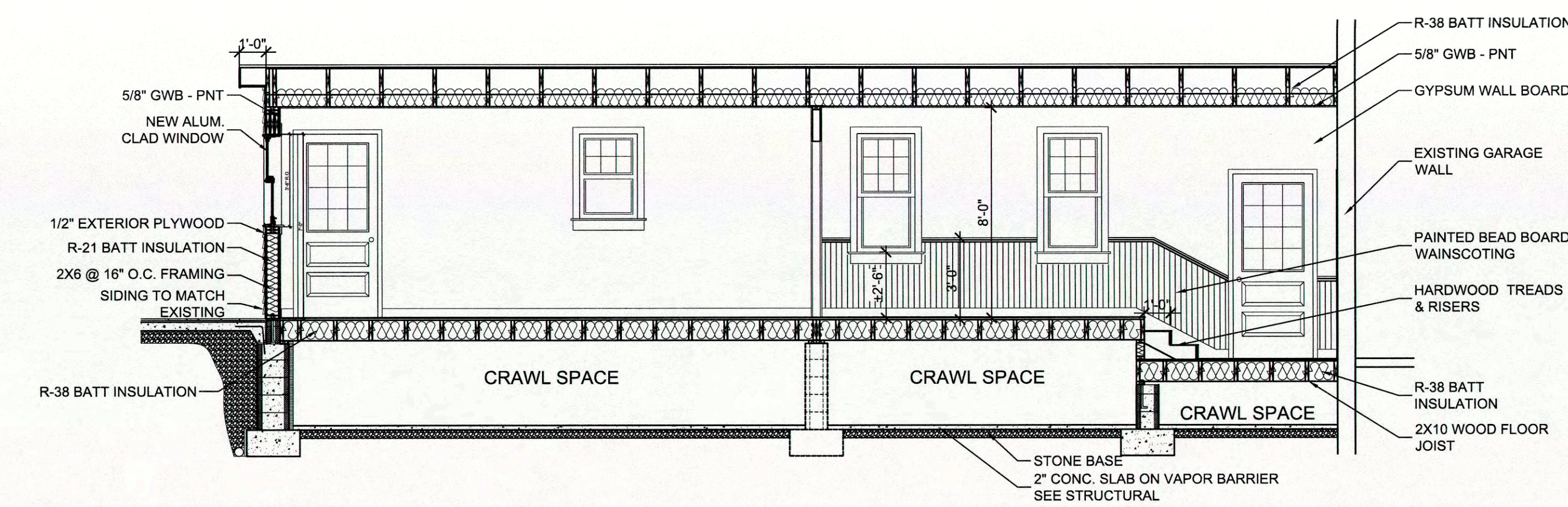




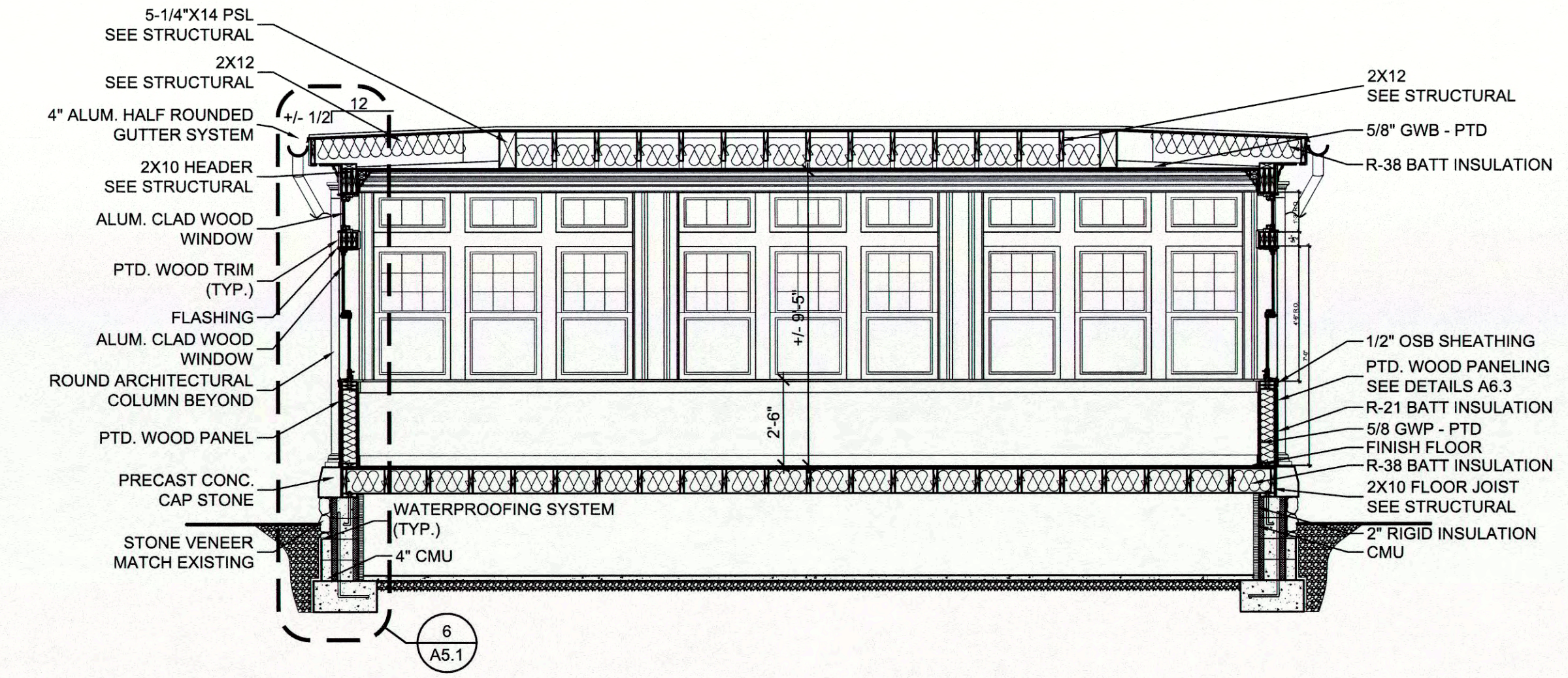
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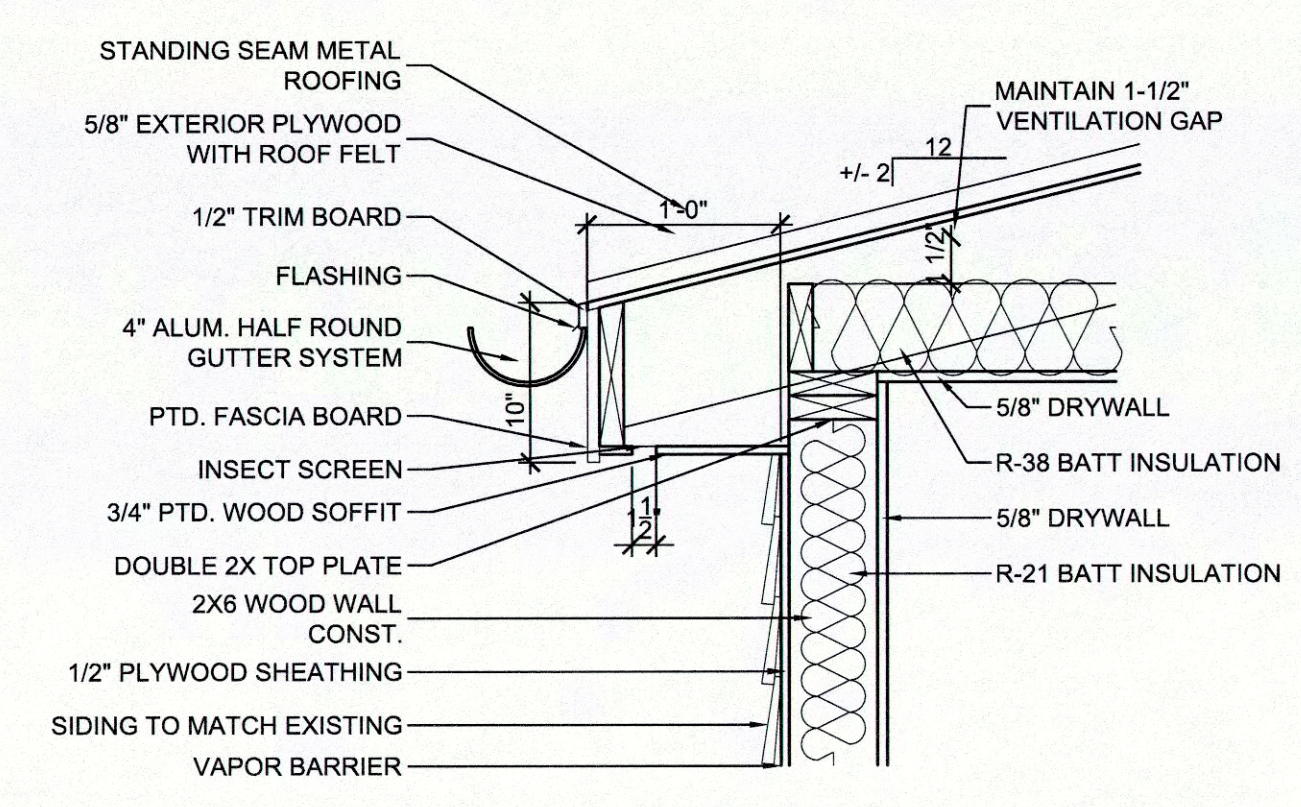
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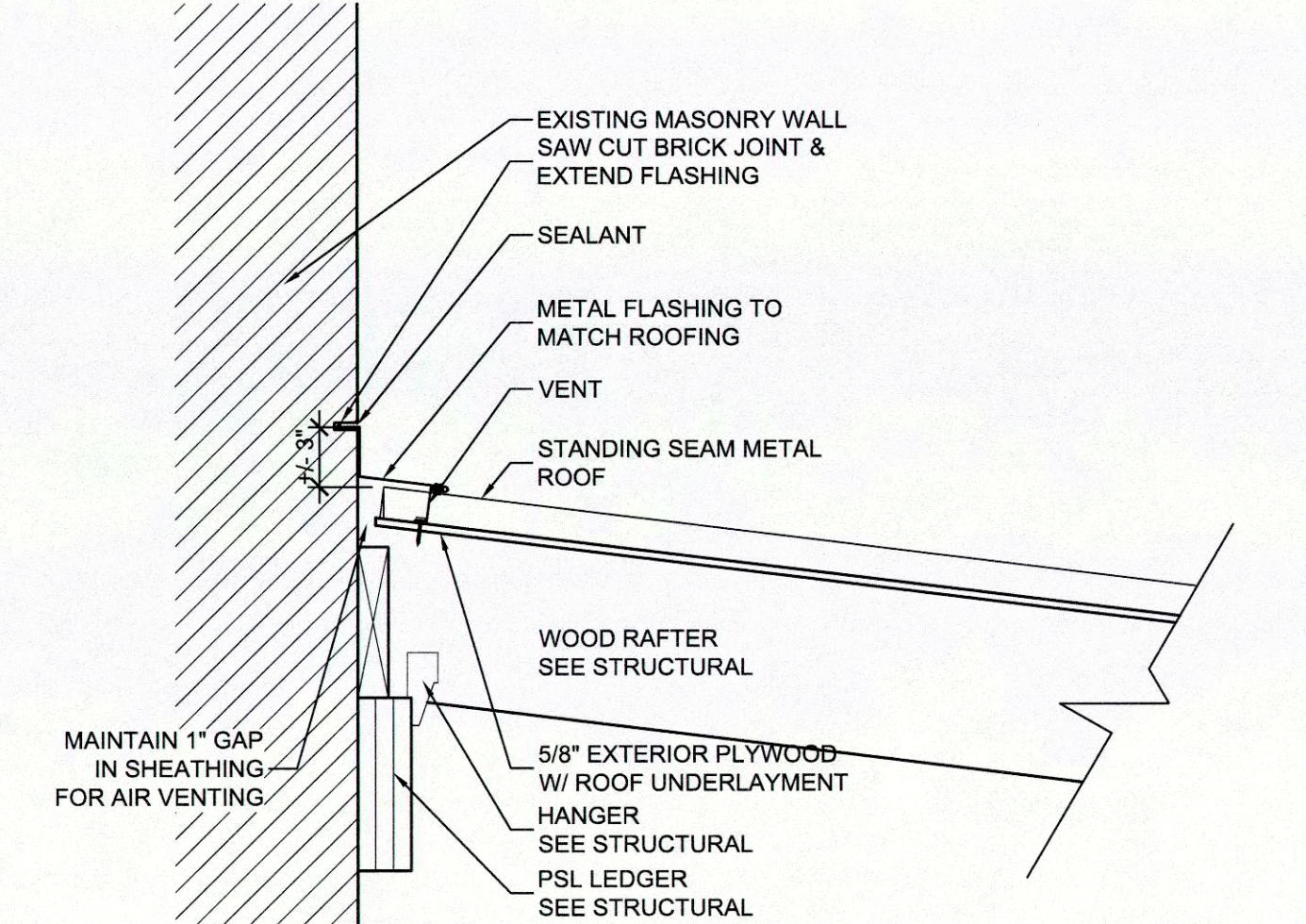
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SCALE: 1/4" = 1'-0"



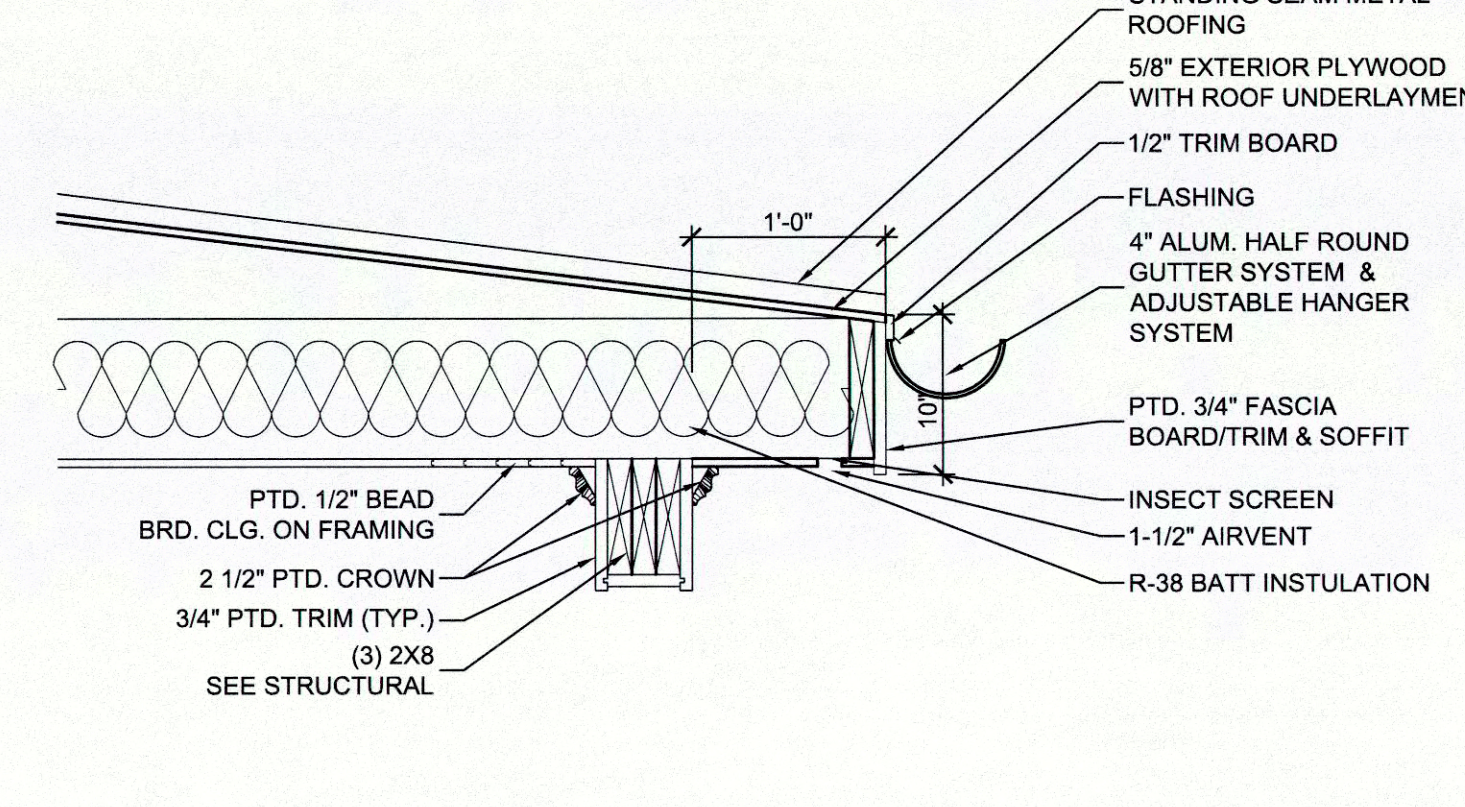
4 BUILDING SECTION - SUNROOM
SCALE: 1/4" = 1'-0"



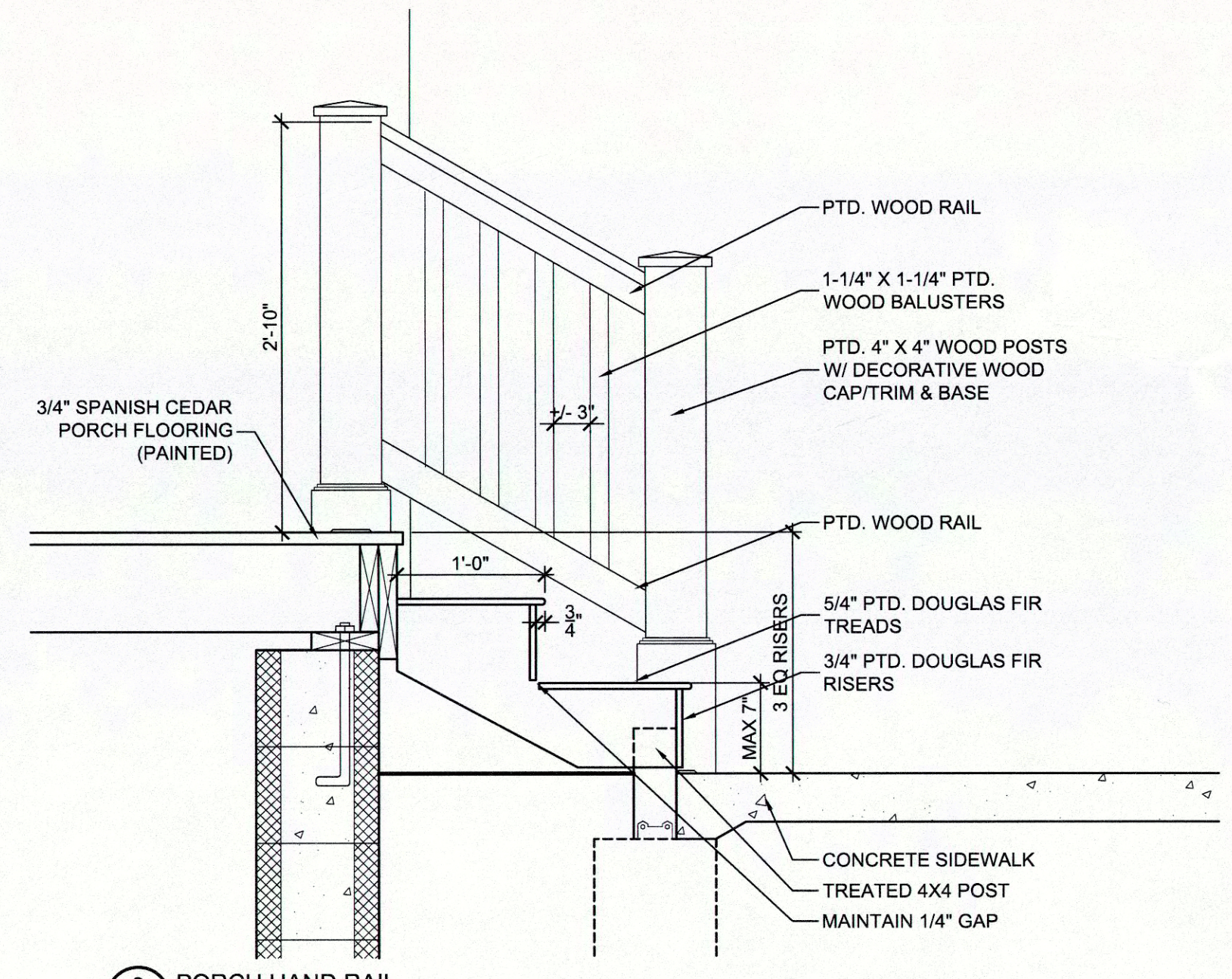
5 TYPICAL SOFFIT DETAIL
SCALE: 1" = 1'-0"



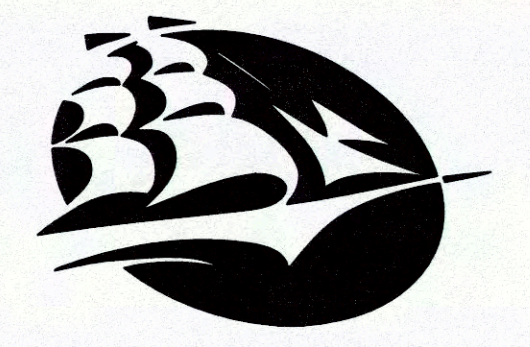
6 HEAD WALL VENT DETAIL
SCALE: 1" = 1'-0"



7 PORCH SOFFIT DETAIL
SCALE: 1" = 1'-0"



8 PORCH HAND RAIL
SCALE: 1" = 1'-0"



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PROJECT NO. SU - 2010/6B

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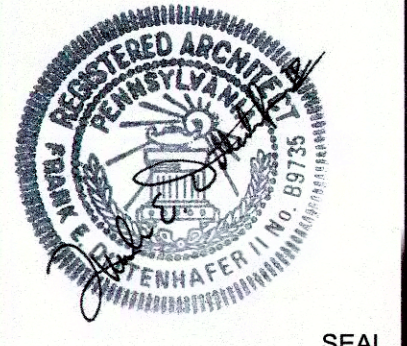
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A-3.1



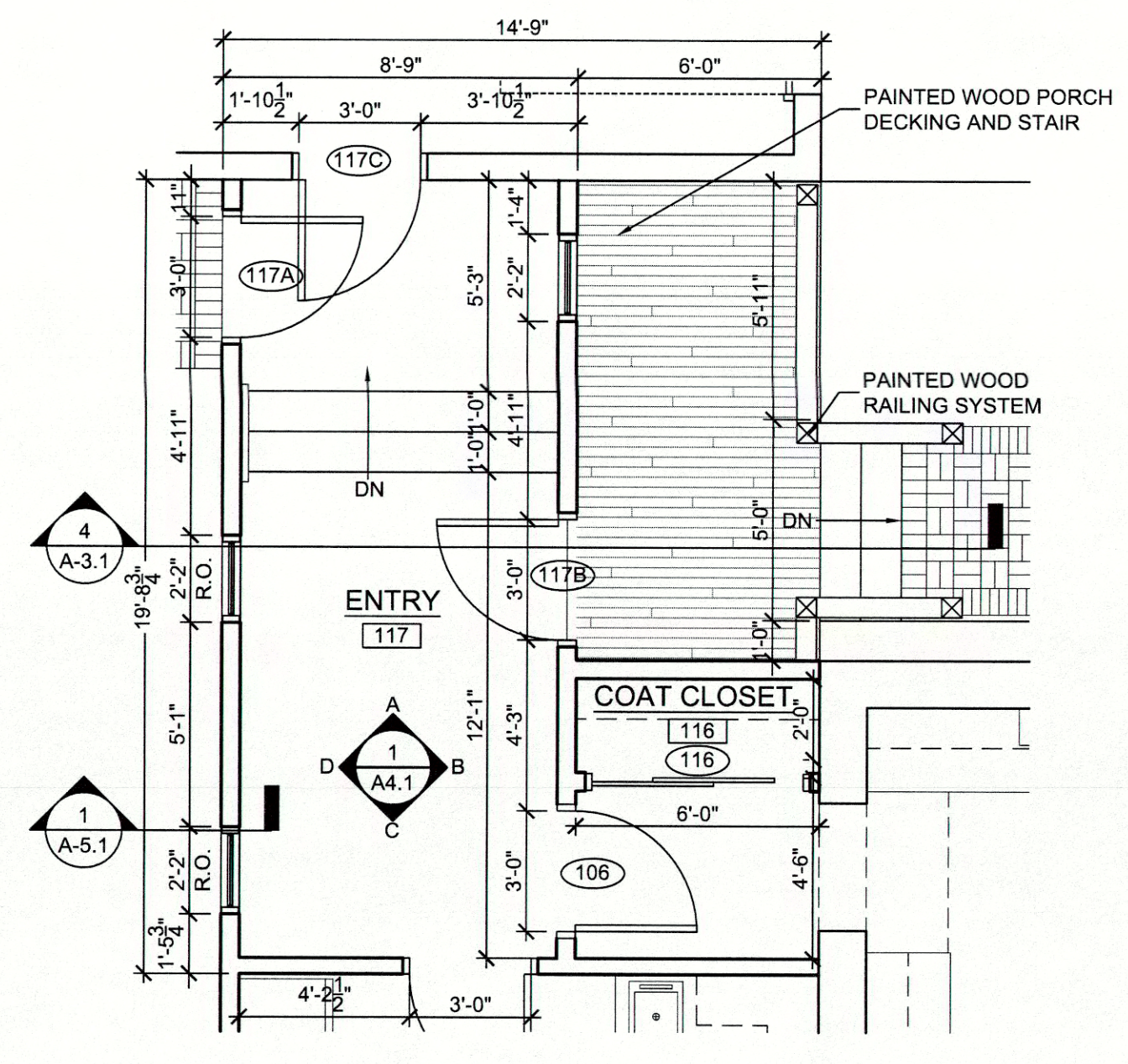
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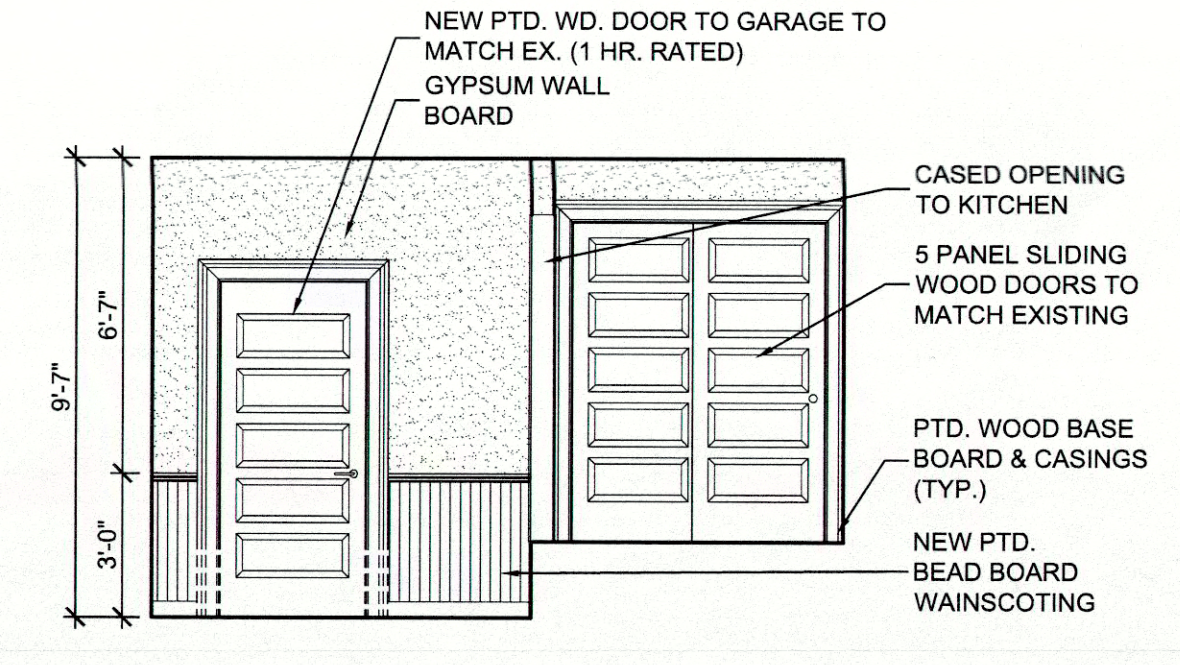
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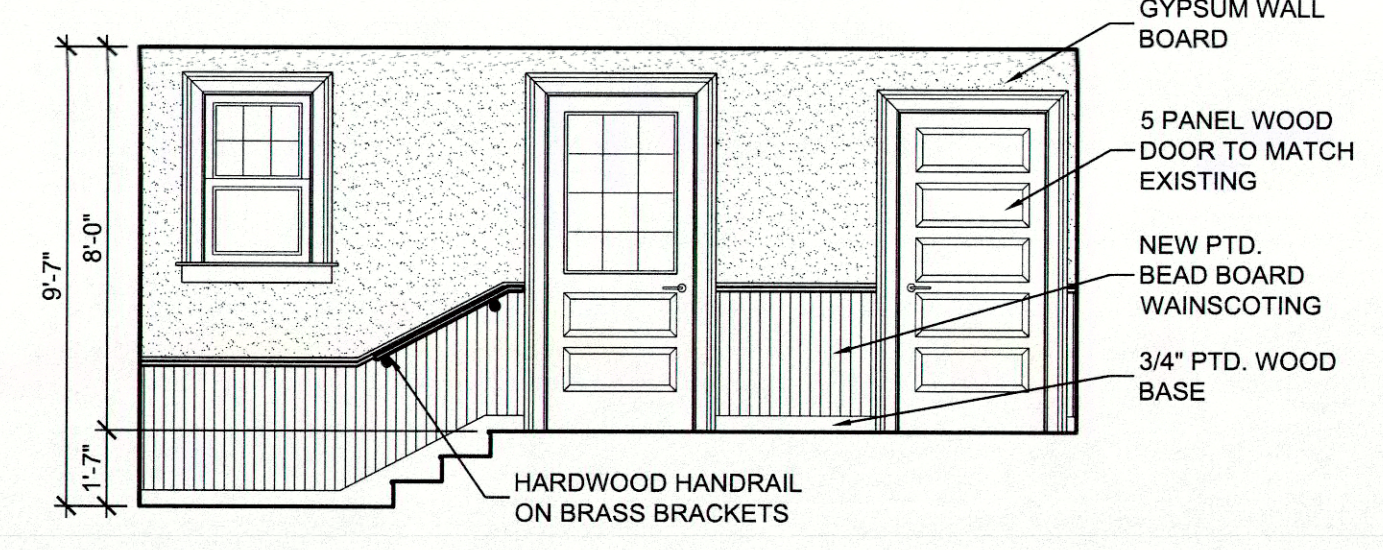
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Professional:			INTERIOR ELEVATIONS
Consultant:			A-4.1
Authorized by:			



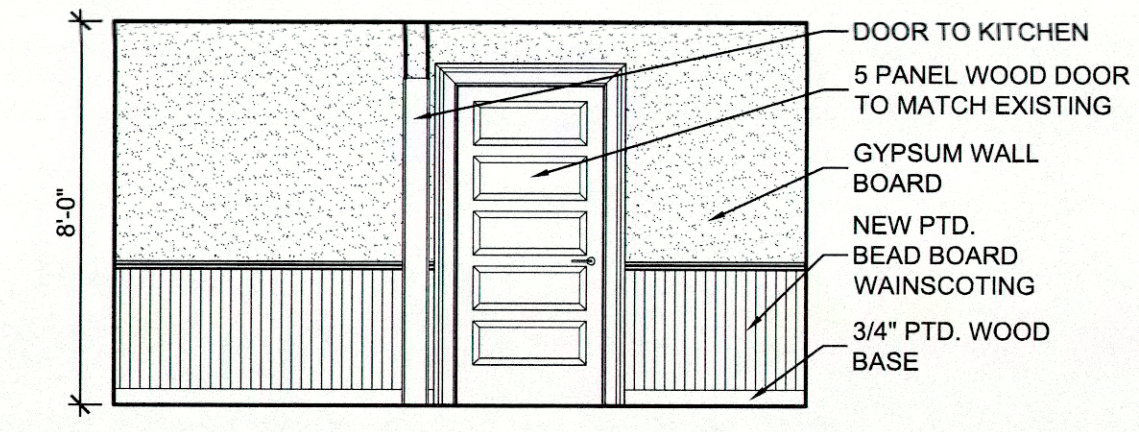
1 ENLARGED PLAN - ENTRY - FIRST FLOOR
SCALE: 1/4" = 1'-0"



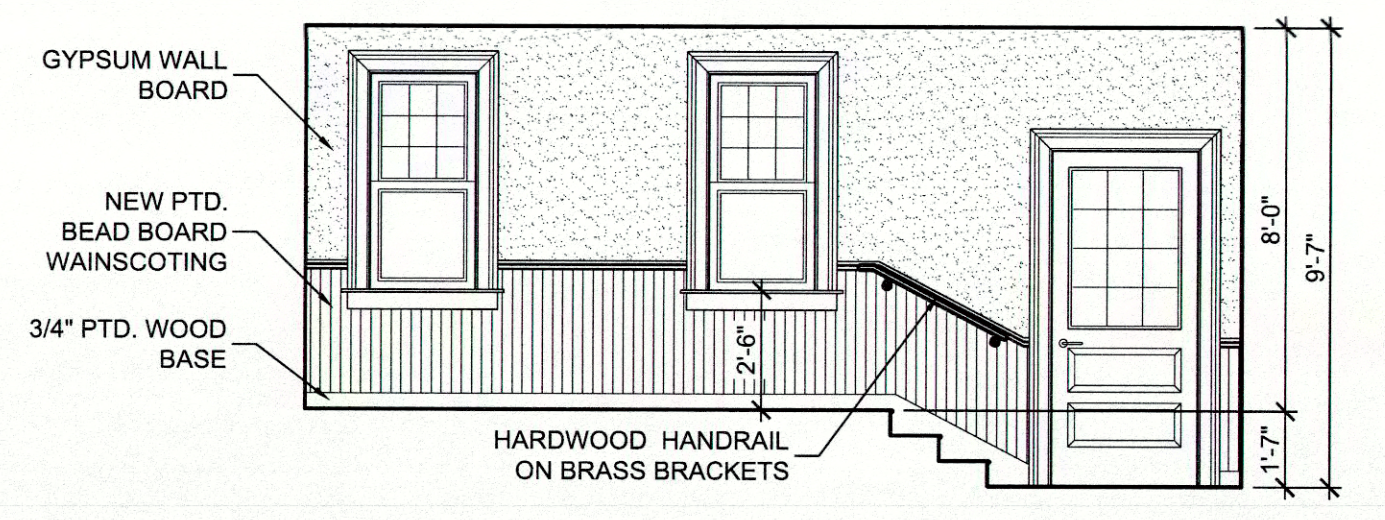
1A ENTRY
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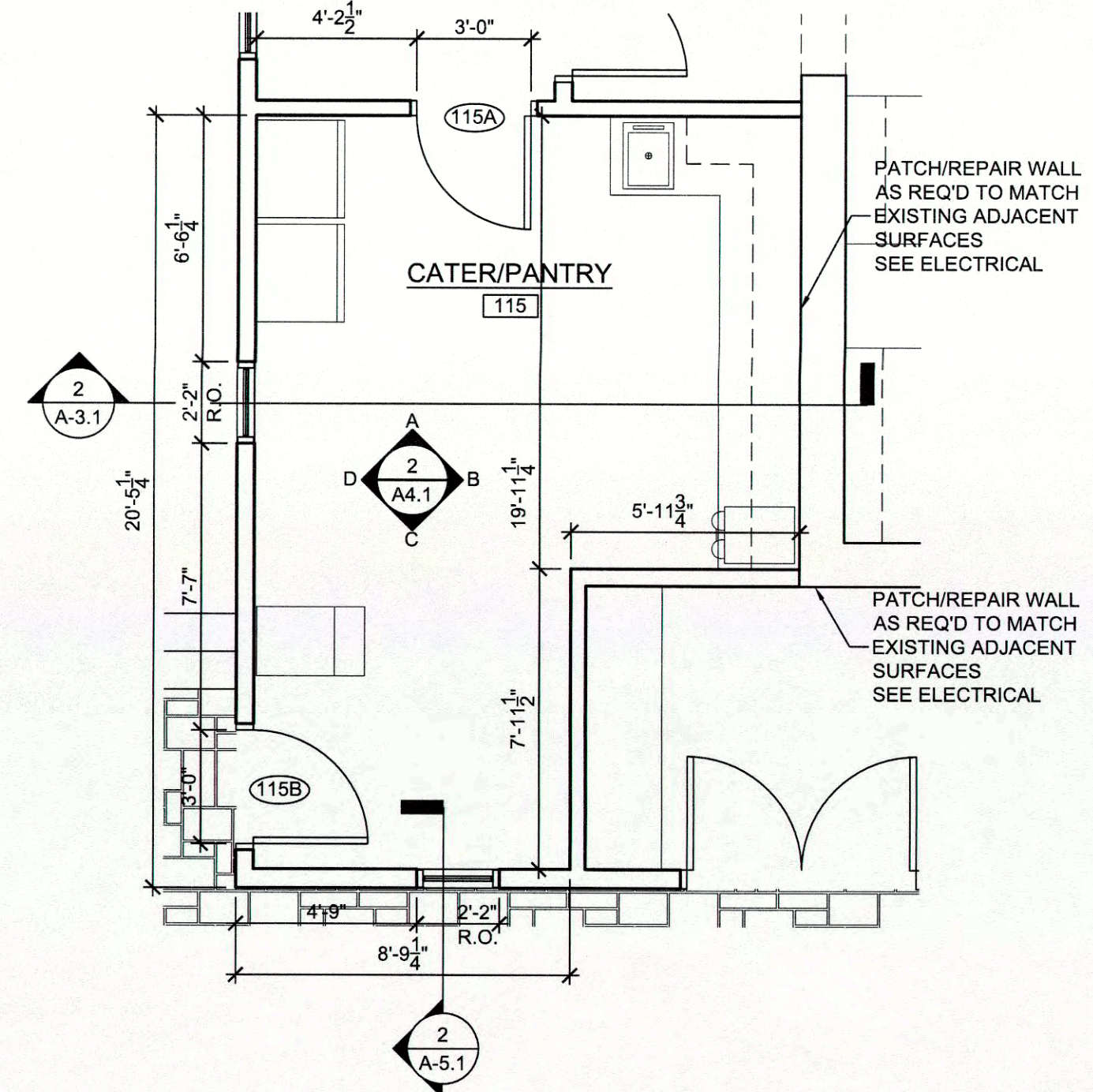
1B ENTRY
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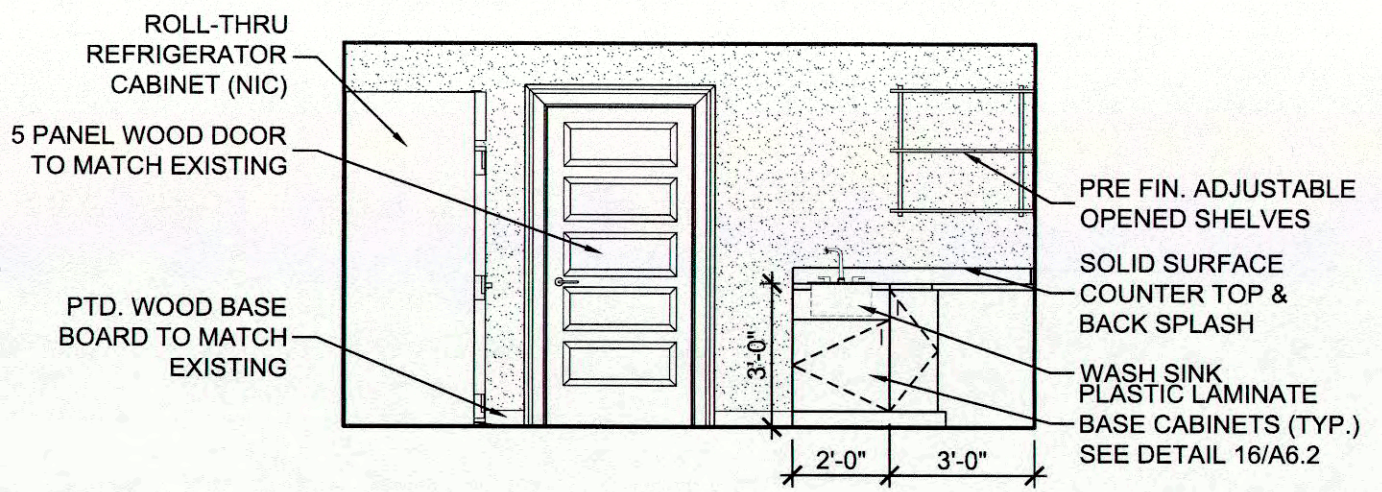
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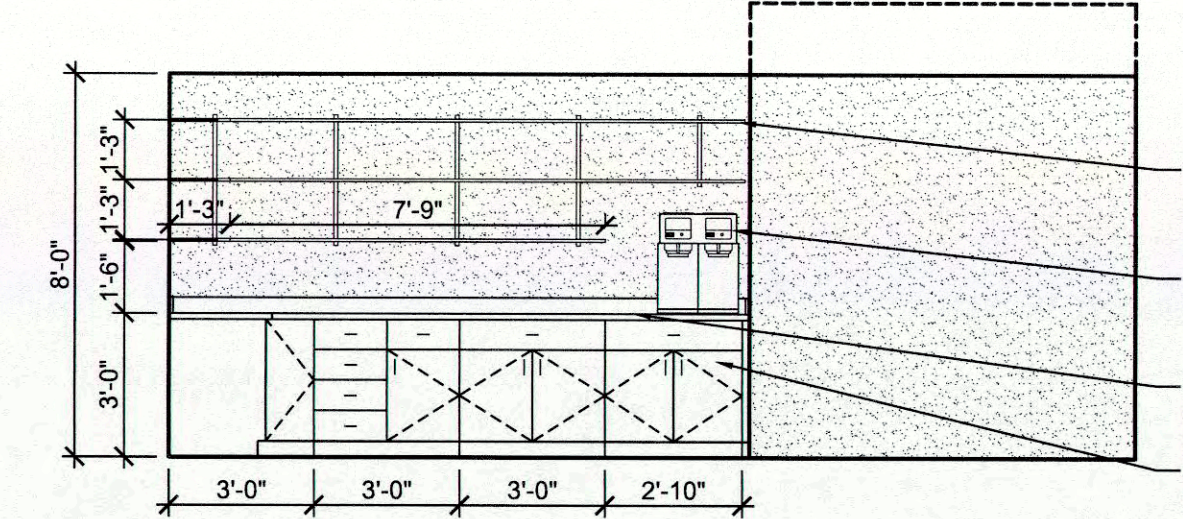
1D ENTRY
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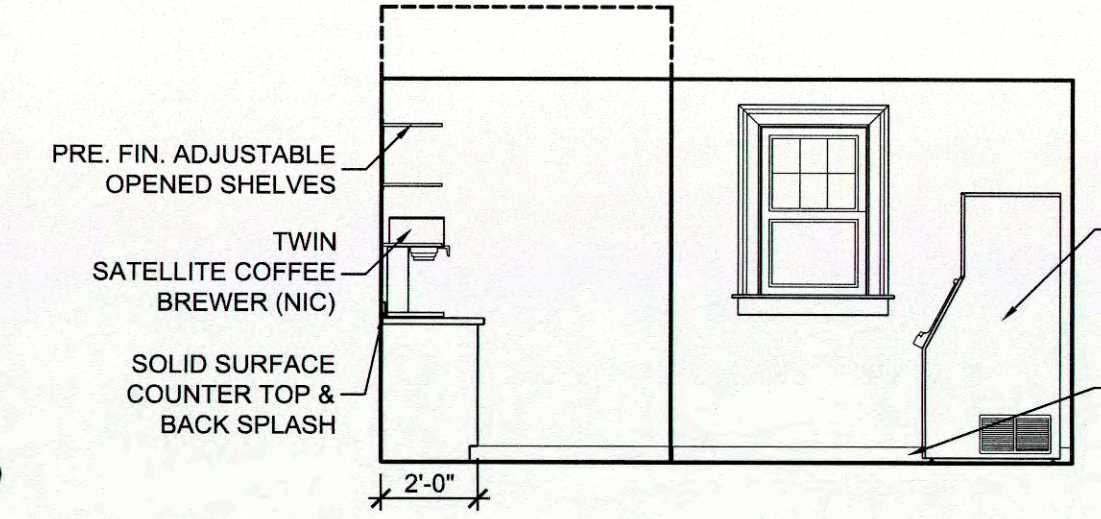
2 ENLARGED PLAN - CATER/PANTRY - FIRST FLOOR
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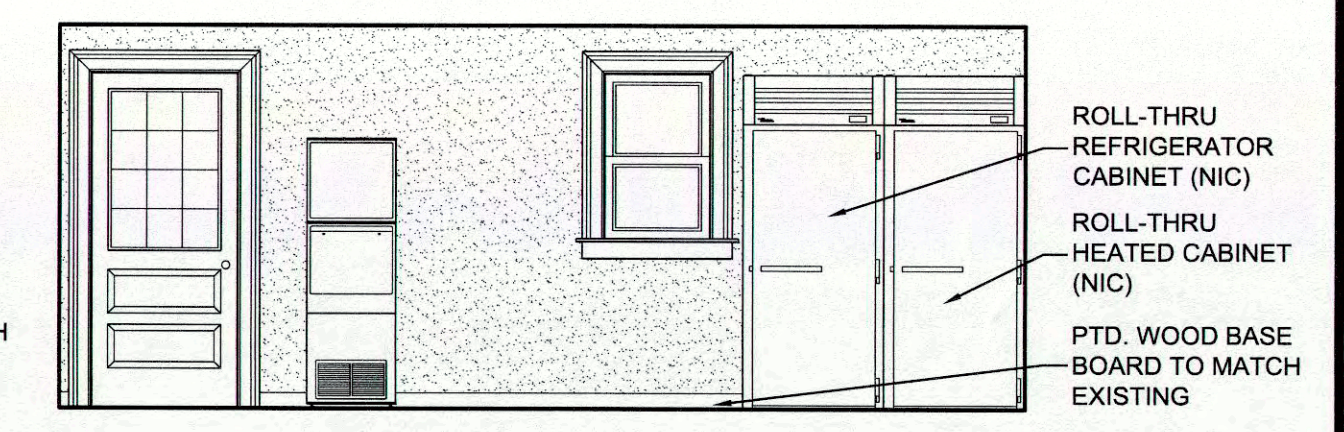
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SCALE: 1/4" = 1'-0"



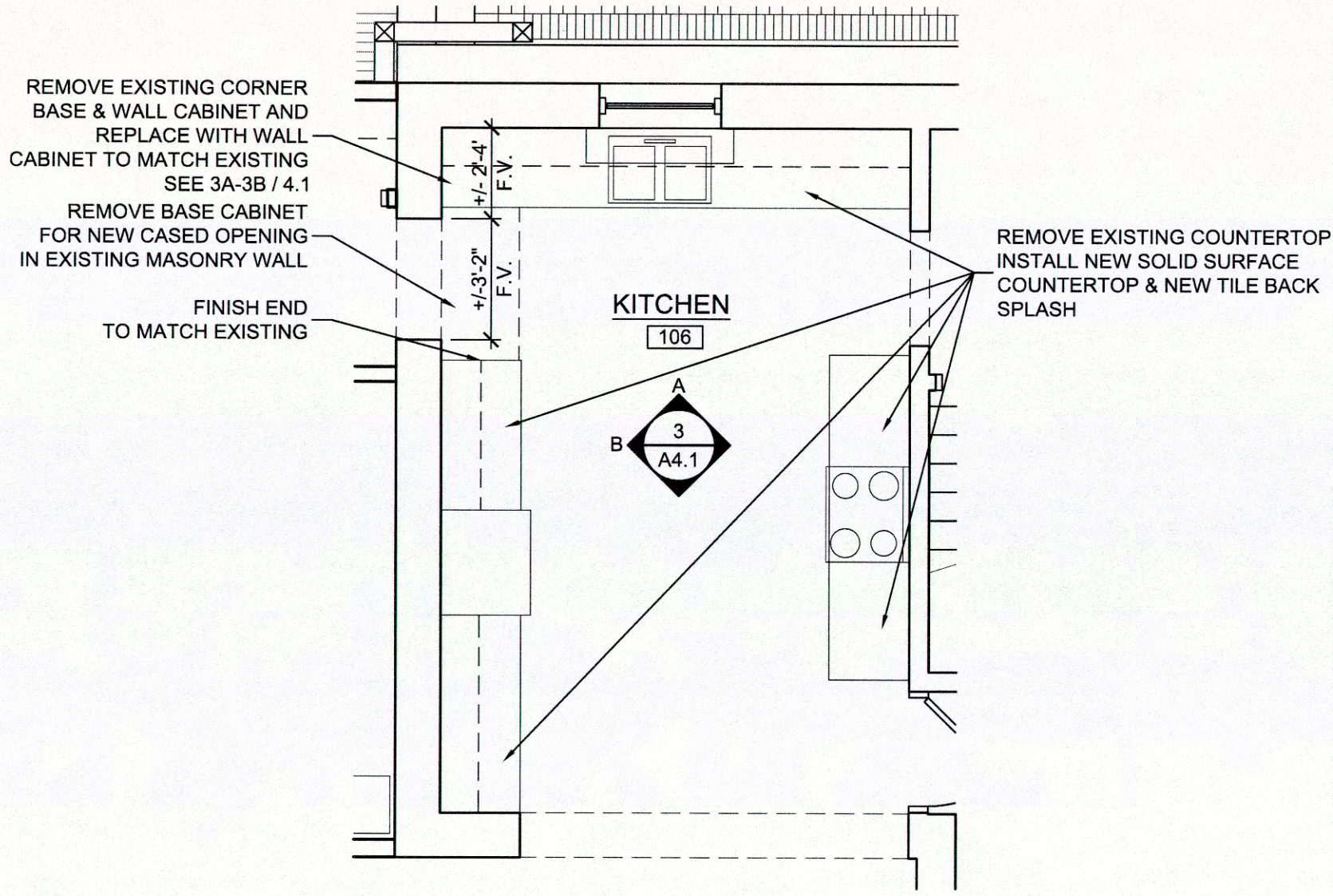
2B CATER/PANTRY
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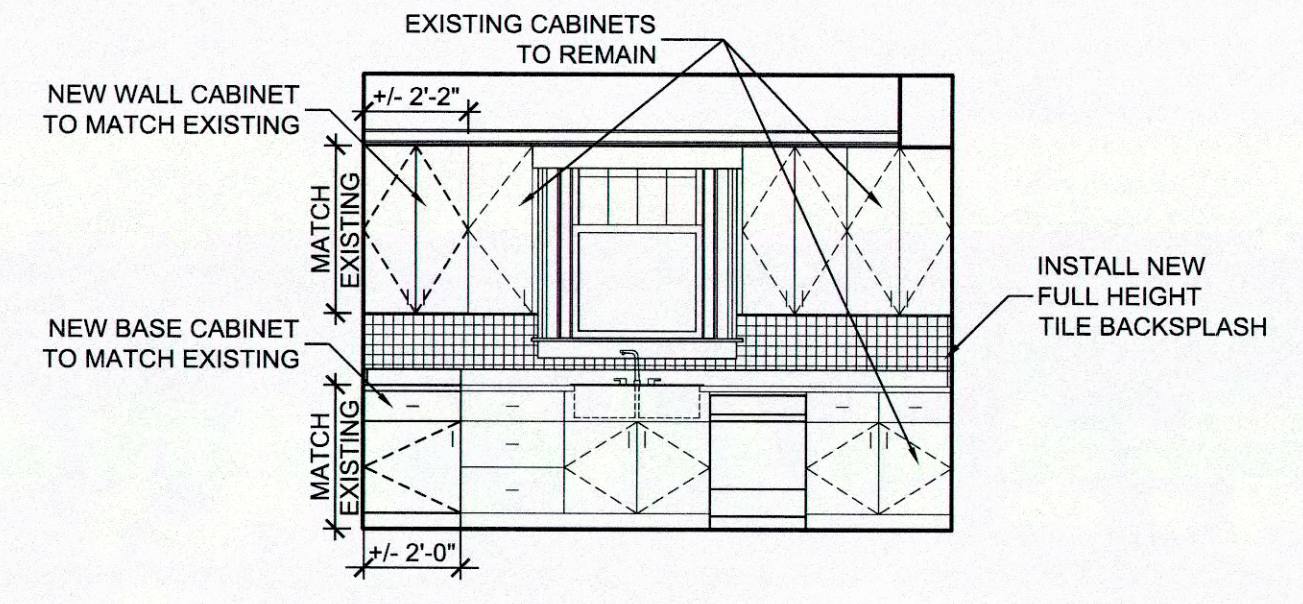
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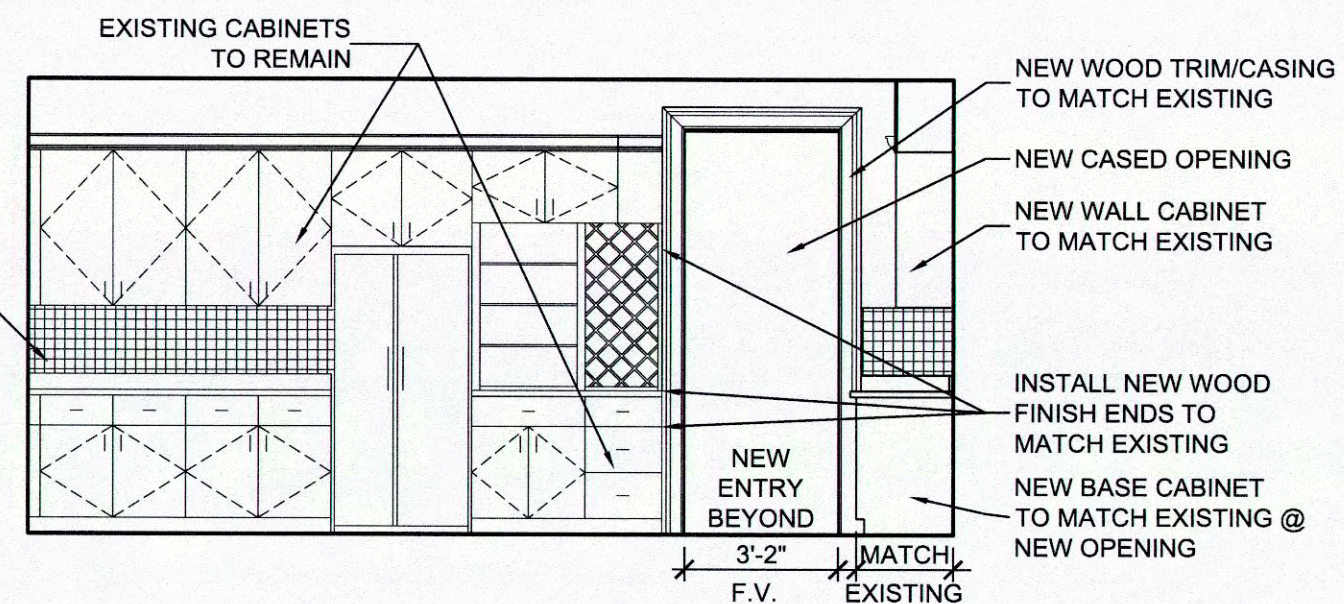
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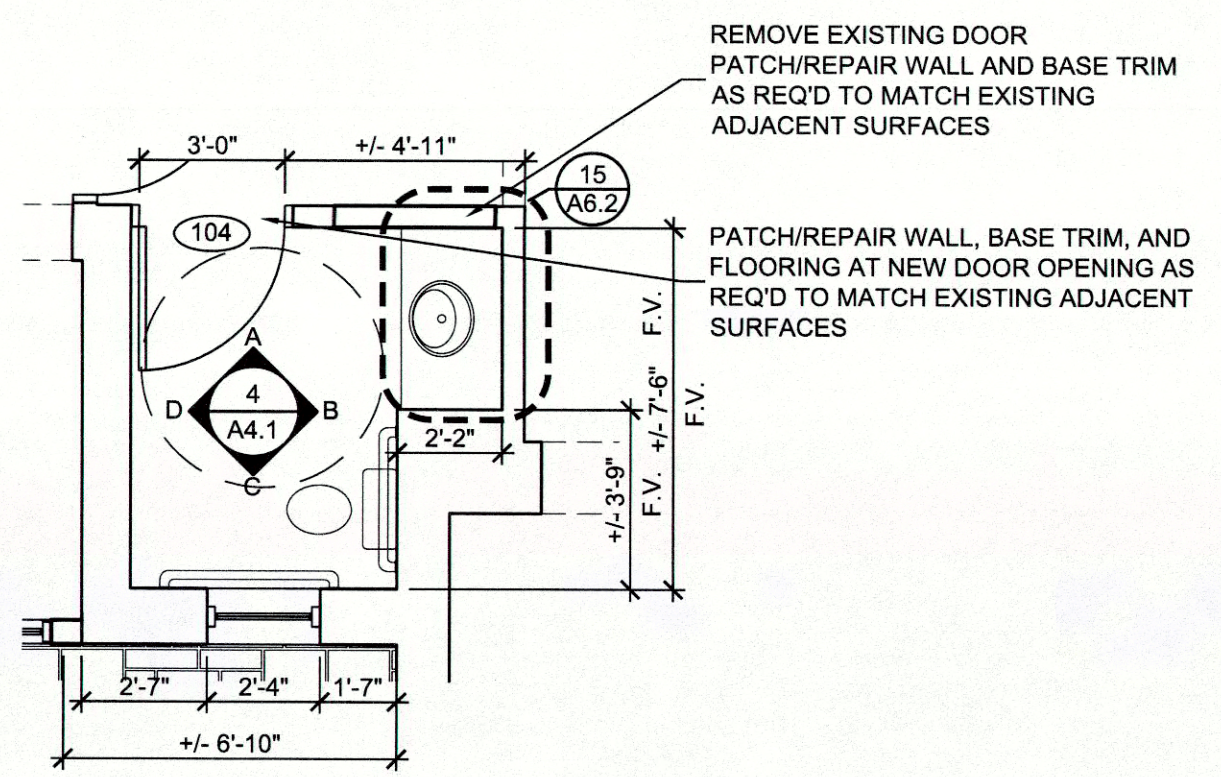
3 ENLARGED PLAN - KITCHEN - FIRST FLOOR
SCALE: 1/4" = 1'-0"



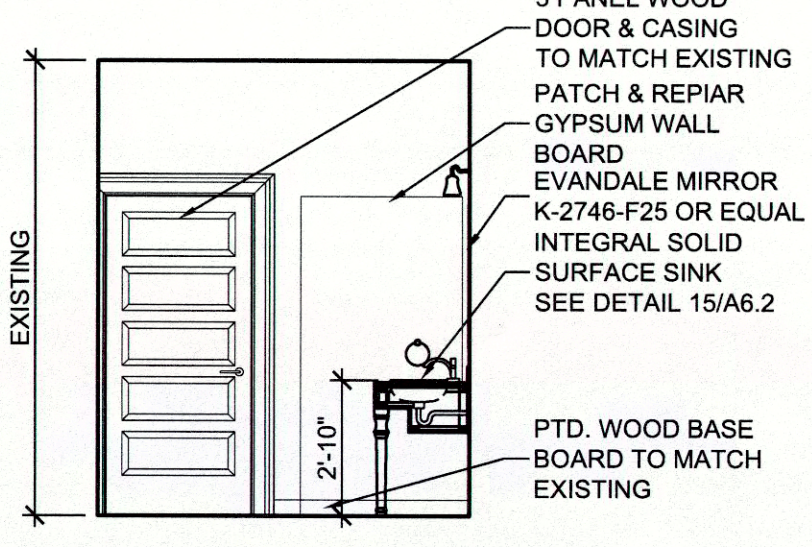
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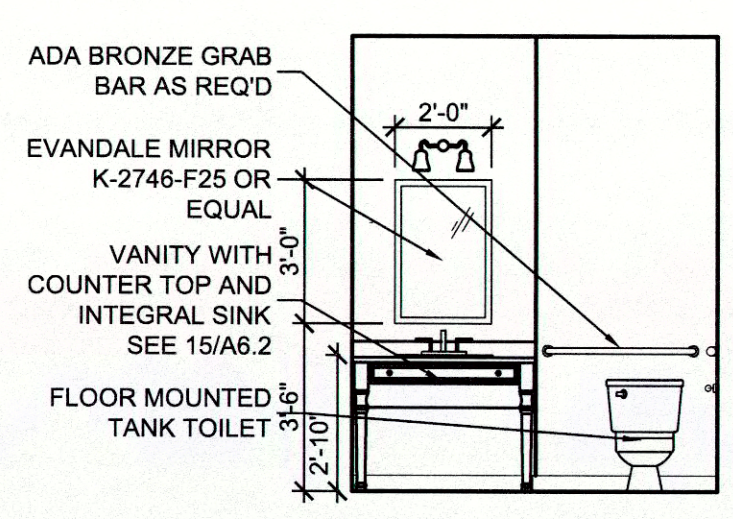
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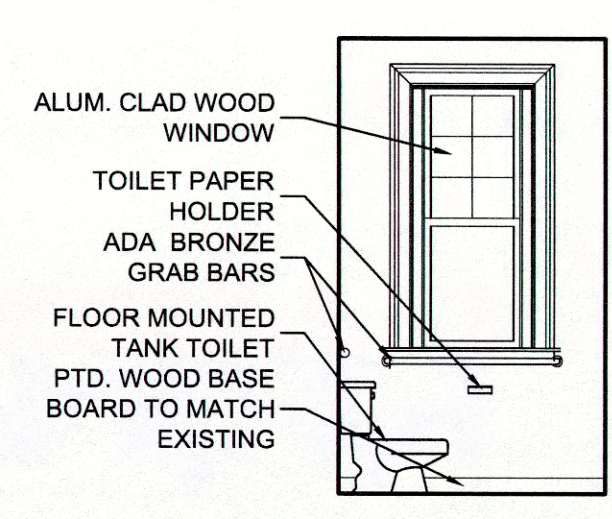
4 ENLARGED PLAN - ADA BATHROOM - FIRST FLOOR
SCALE: 1/4" = 1'-0"



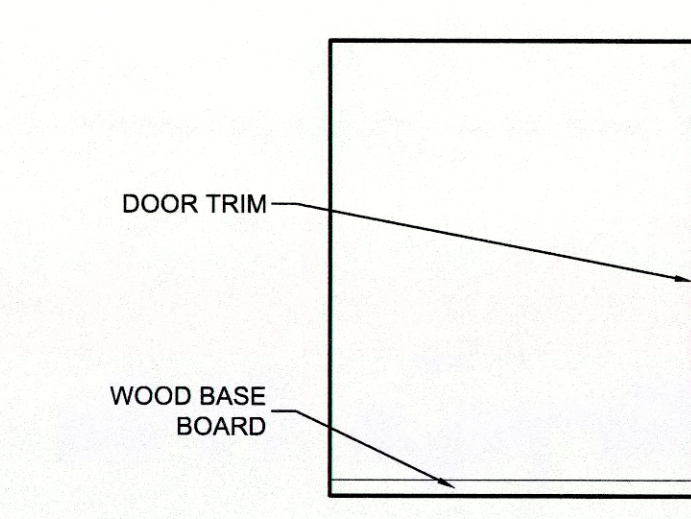
4A ADA BATHROOM
SCALE: 1/4" = 1'-0"



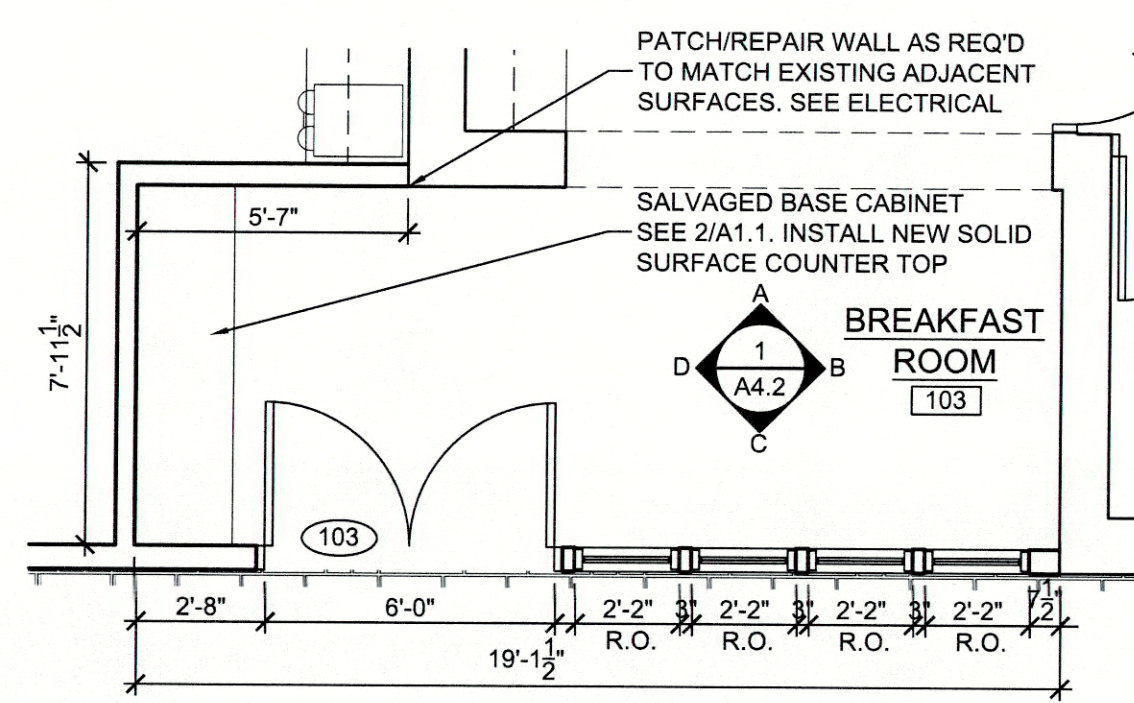
4B ADA BATHROOM
SCALE: 1/4" = 1'-0"



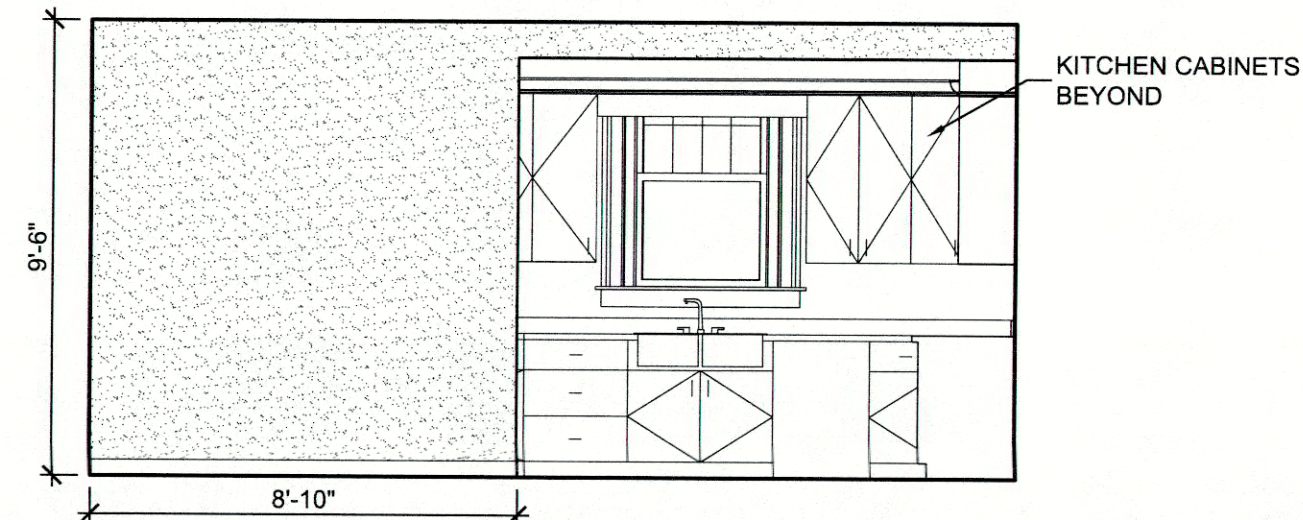
4C ADA BATHROOM
SCALE: 1/4" = 1'-0"



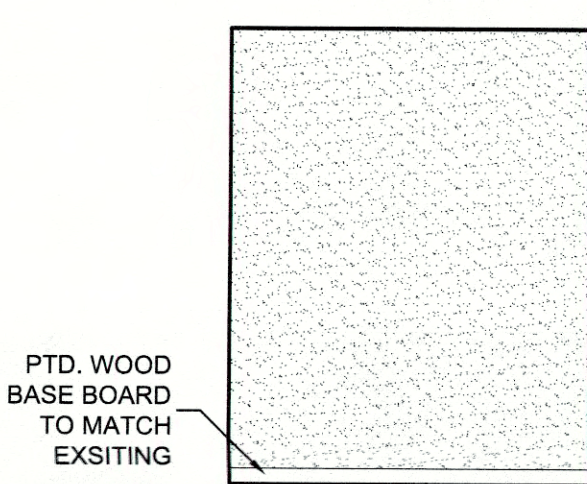
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SCALE: 1/4" = 1'-0"



1 ENLARGED PLAN - BREAKFAST ROOM - FIRST FLOOR
A4.2 SCALE: 1/4" = 1'-0"



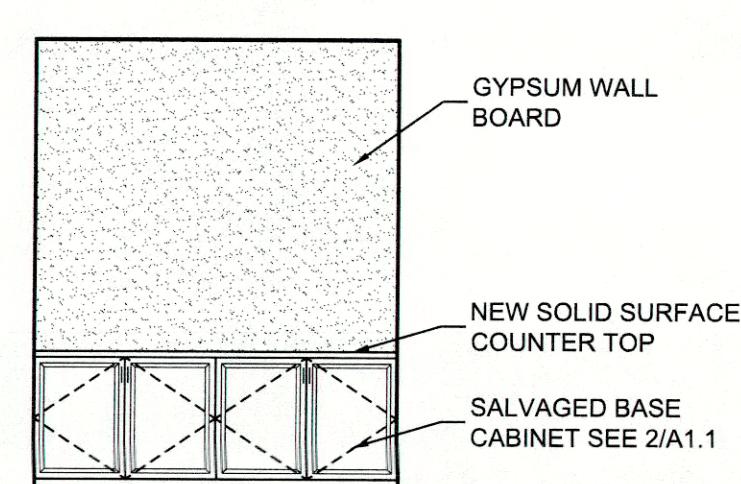
1A BREAKFAST ROOM
A4.2 SCALE: 1/4" = 1'-0"



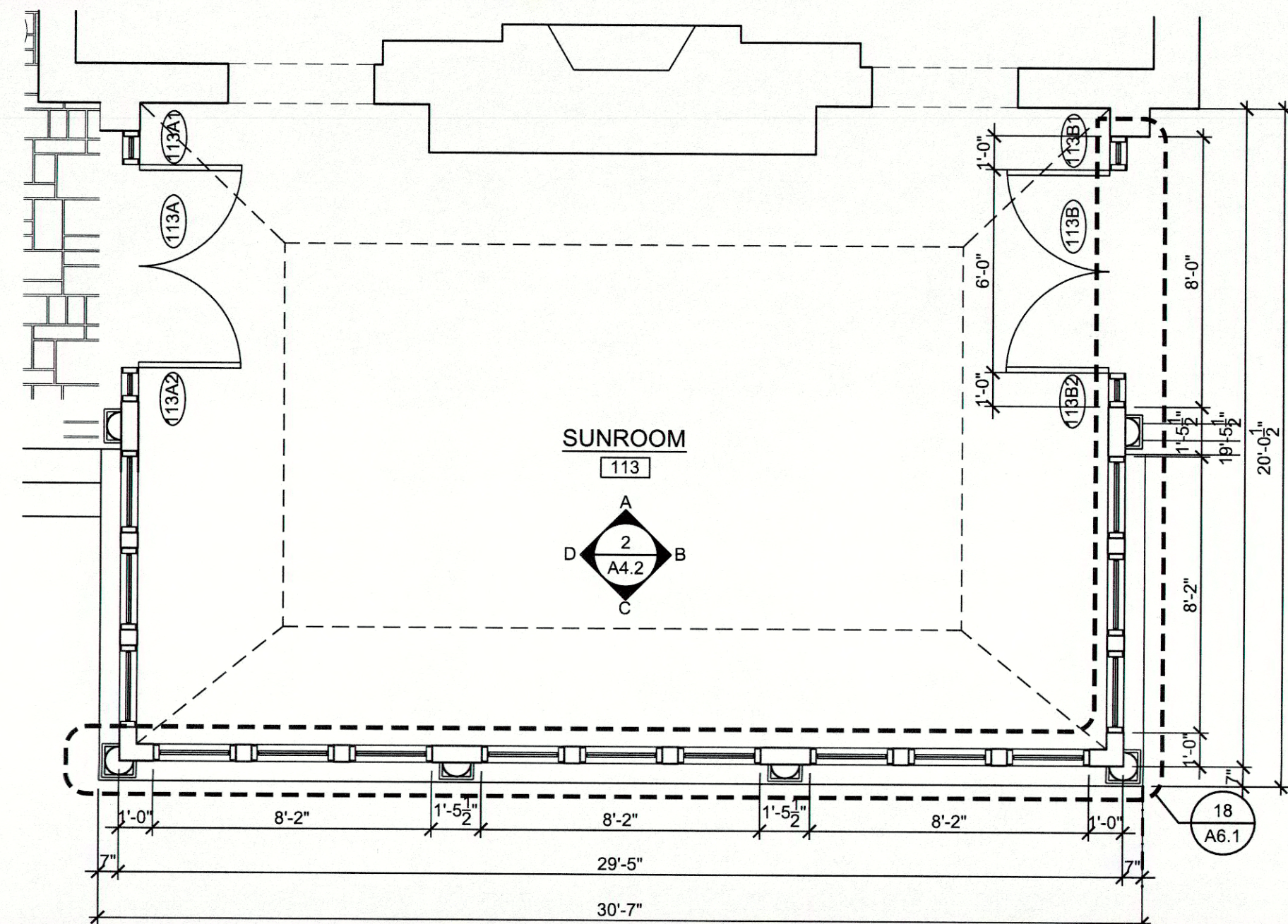
1B BREAKFAST ROOM
A4.2 SCALE: 1/4" = 1'-0"



1C BREAKFAST ROOM
A4.2 SCALE: 1/4" = 1'-0"



1D BREAKFAST ROOM
A4.2 SCALE: 1/4" = 1'-0"



2 ENLARGED PLAN - SUNROOM - FIRST FLOOR
A4.2 SCALE: 1/4" = 1'-0"



2A SUNROOM
A4.2 SCALE: 1/4" = 1'-0"



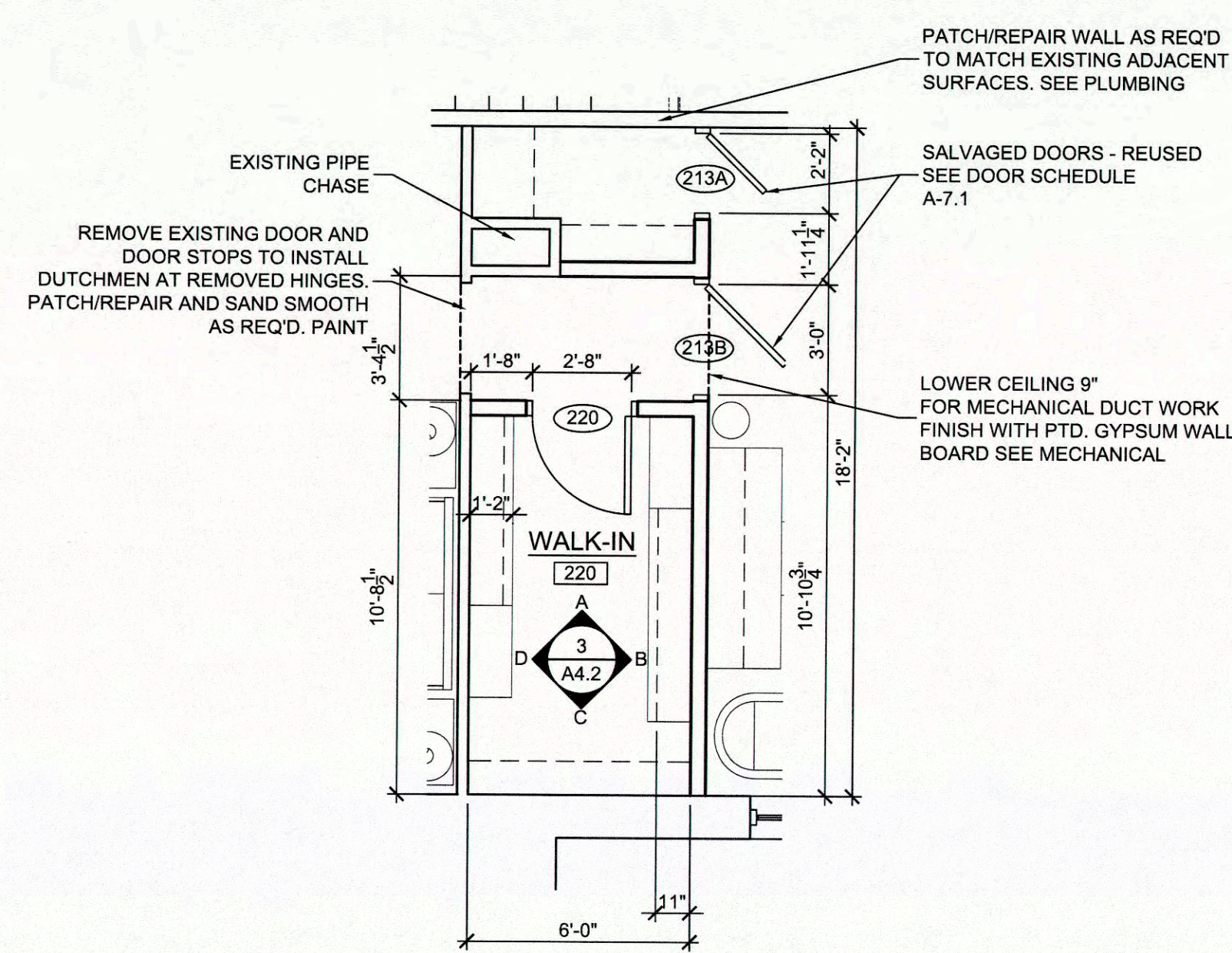
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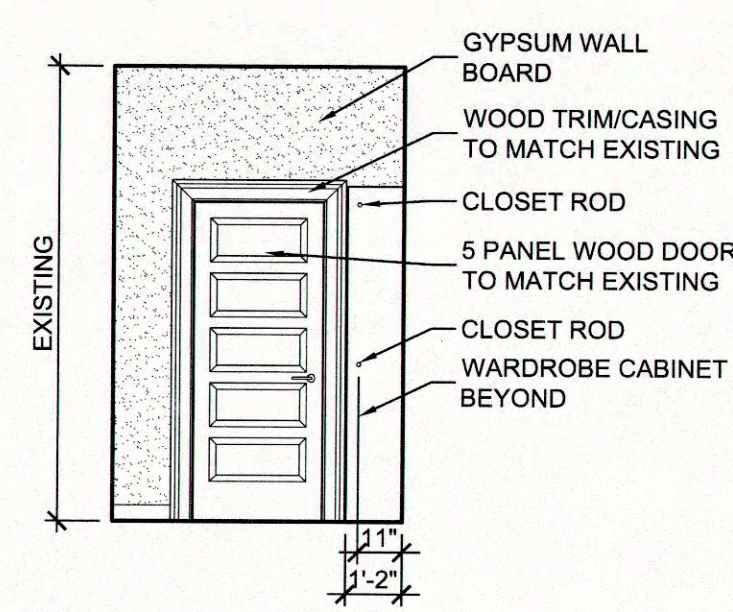
2C SUNROOM
A4.2 SCALE: 1/4" = 1'-0"



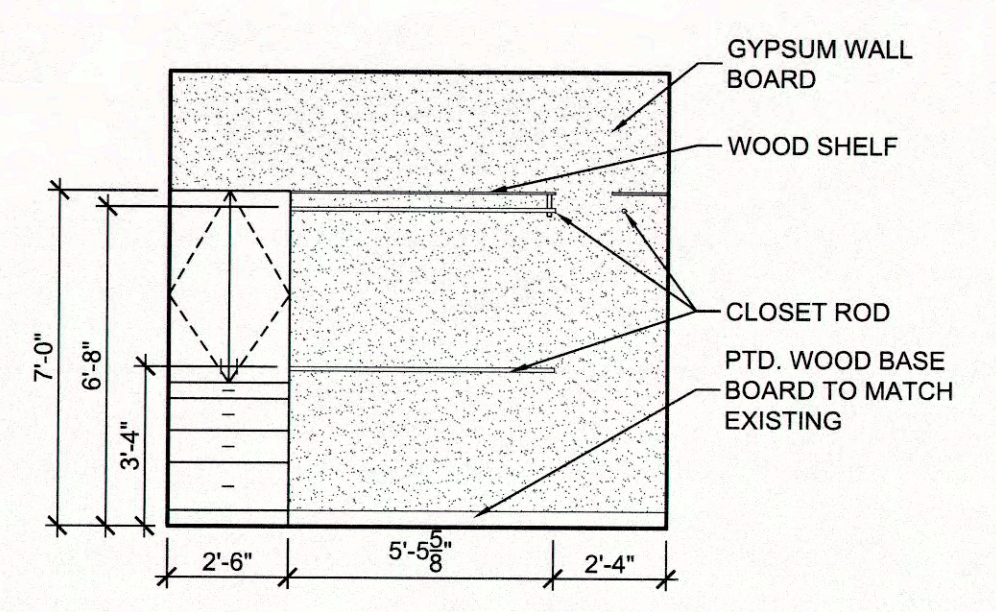
2D SUNROOM
A4.2 SCALE: 1/4" = 1'-0"



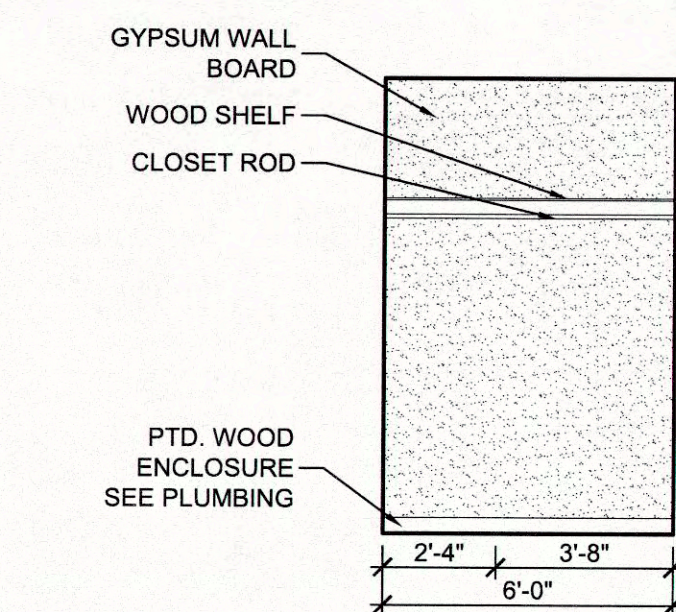
3 ENLARGED PLAN - WALK-IN CLOSET - SECOND FLOOR
A4.2 SCALE: 1/4" = 1'-0"



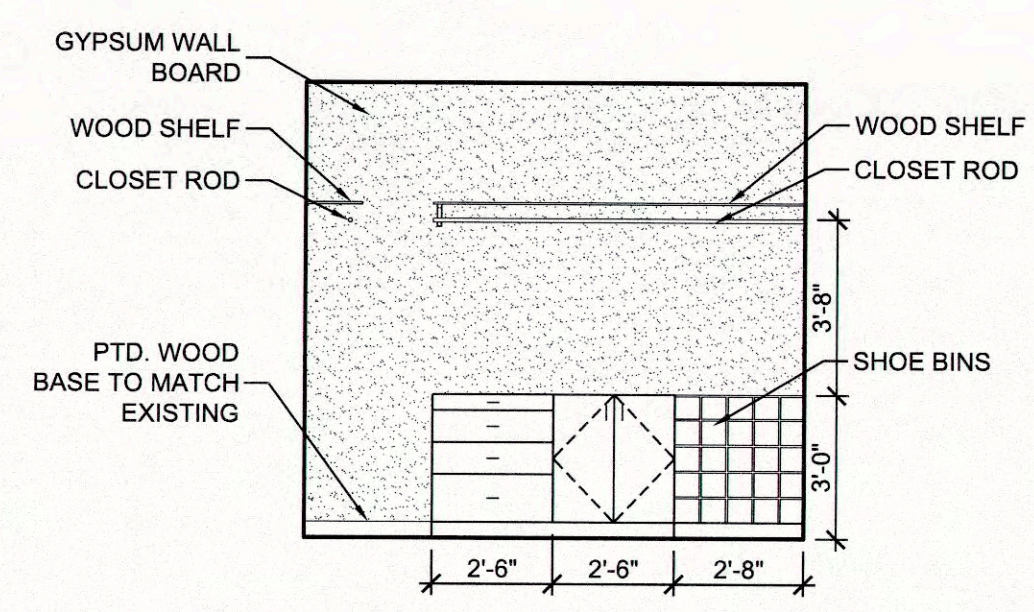
3A WALK-IN CLOSET
A4.2 SCALE: 1/4" = 1'-0"



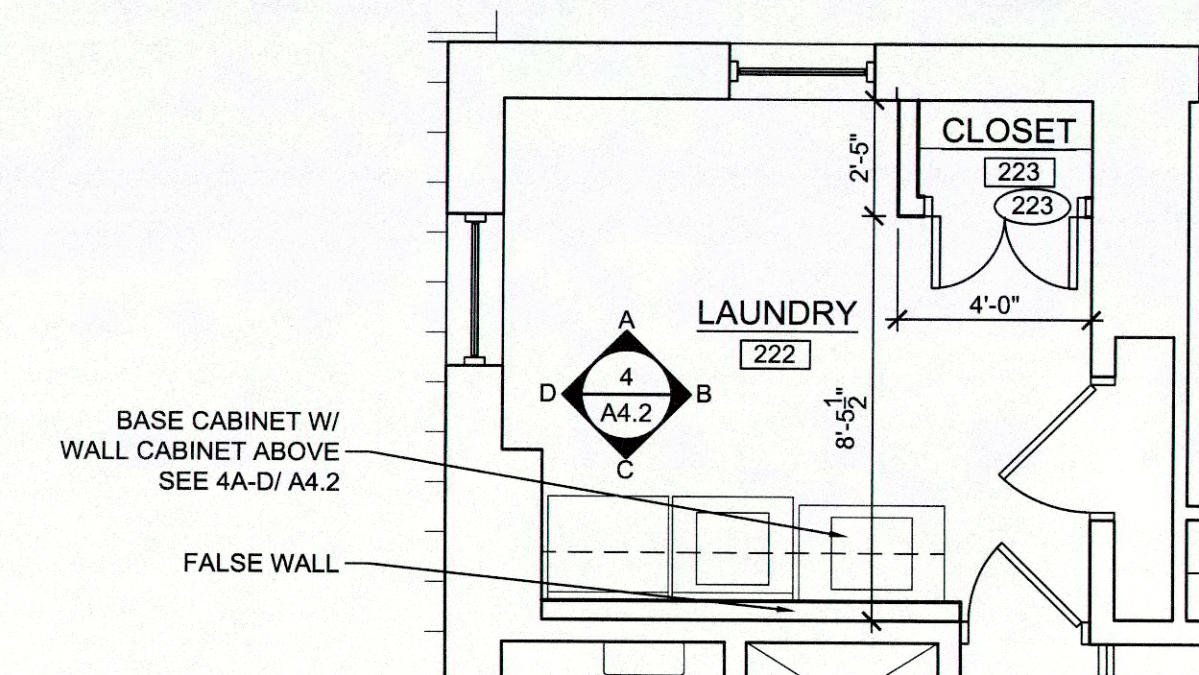
3B WALK-IN CLOSET
A4.2 SCALE: 1/4" = 1'-0"



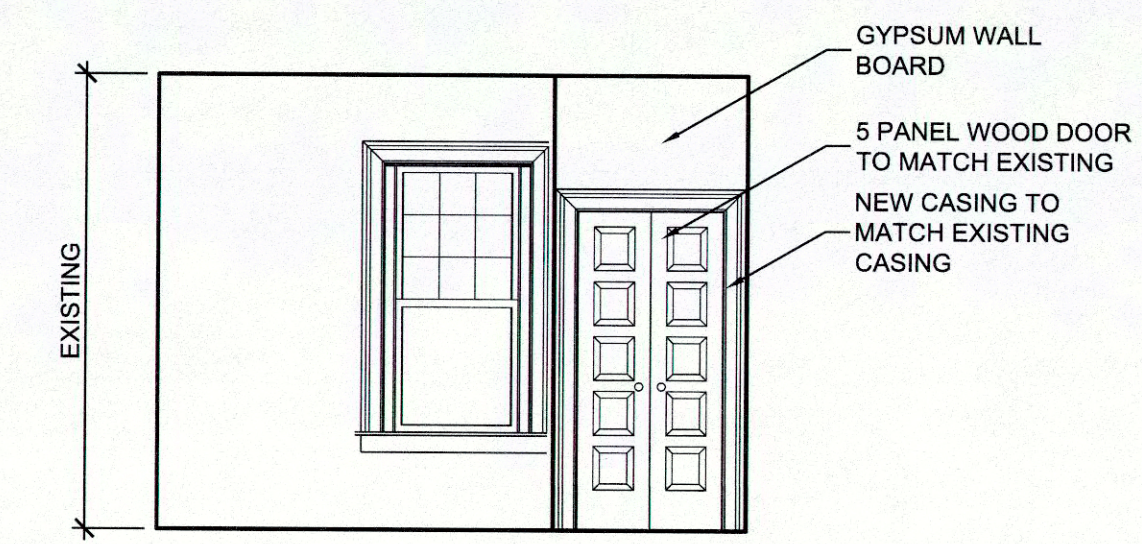
3C WALK-IN CLOSET
A4.2 SCALE: 1/4" = 1'-0"



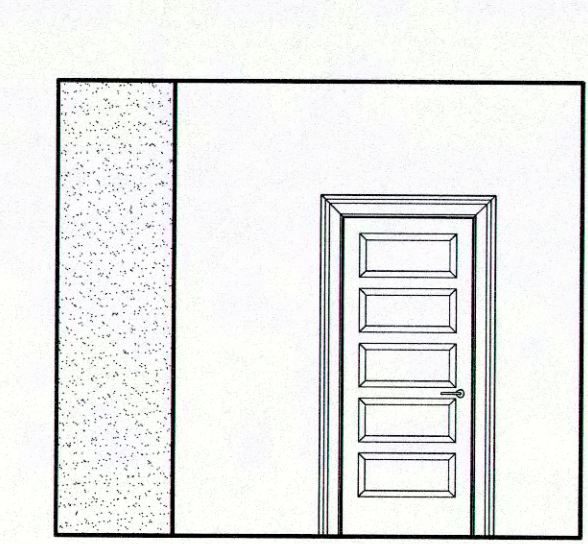
3D WALK-IN CLOSET
A4.2 SCALE: 1/4" = 1'-0"



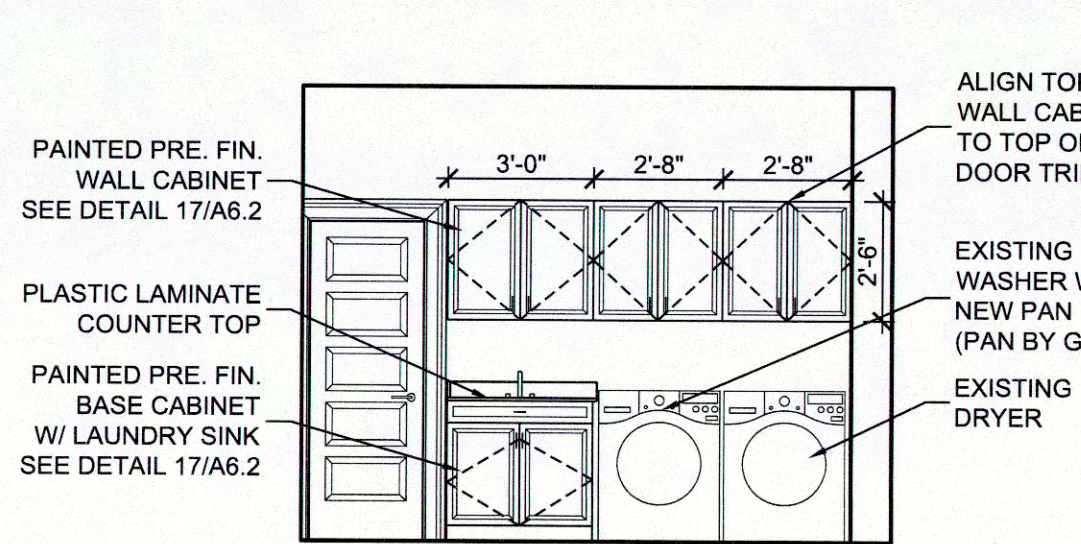
4 ENLARGED PLAN - LAUNDRY ROOM - SECOND FLOOR
A4.2 SCALE: 1/4" = 1'-0"



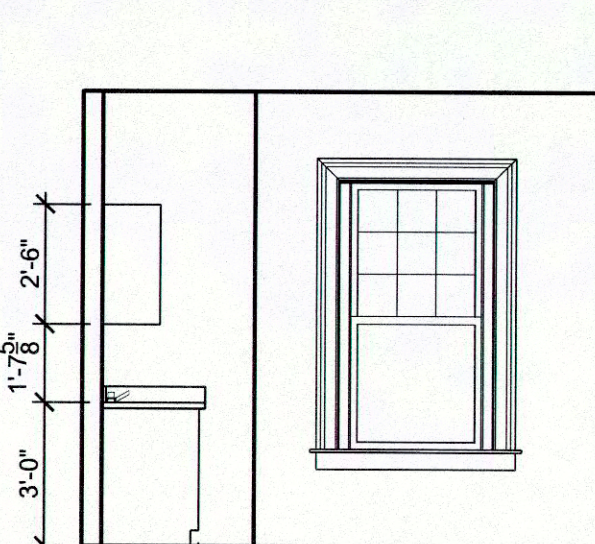
4A LAUNDRY ROOM
A4.2 SCALE: 1/4" = 1'-0"



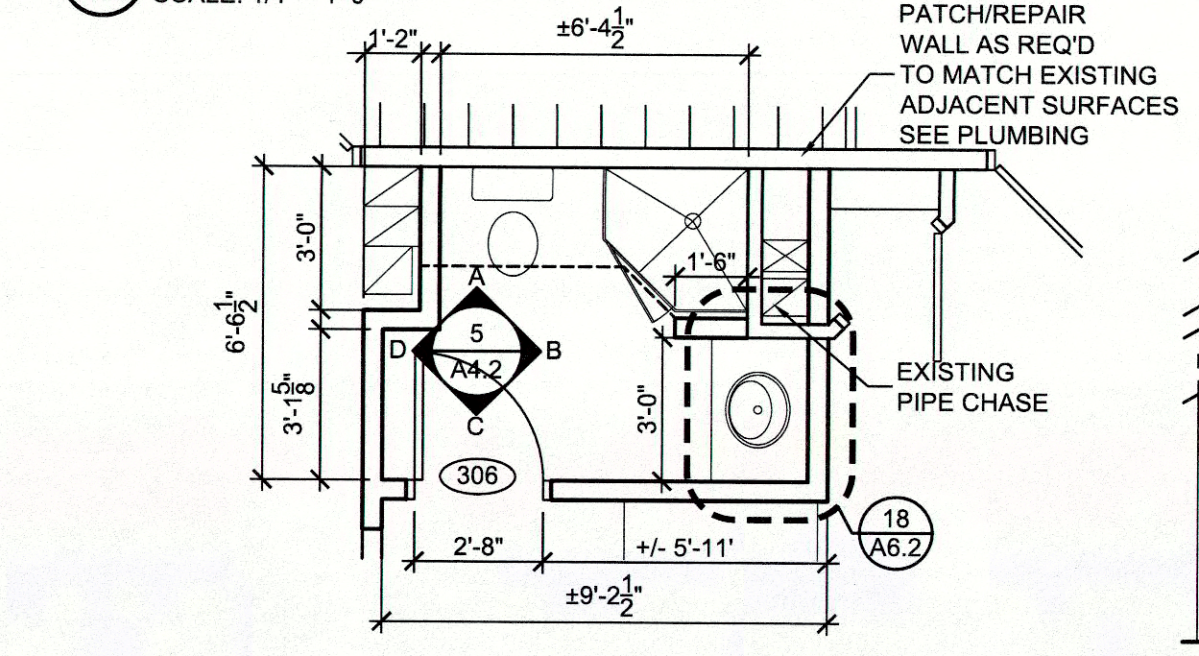
4B LAUNDRY ROOM
A4.2 SCALE: 1/4" = 1'-0"



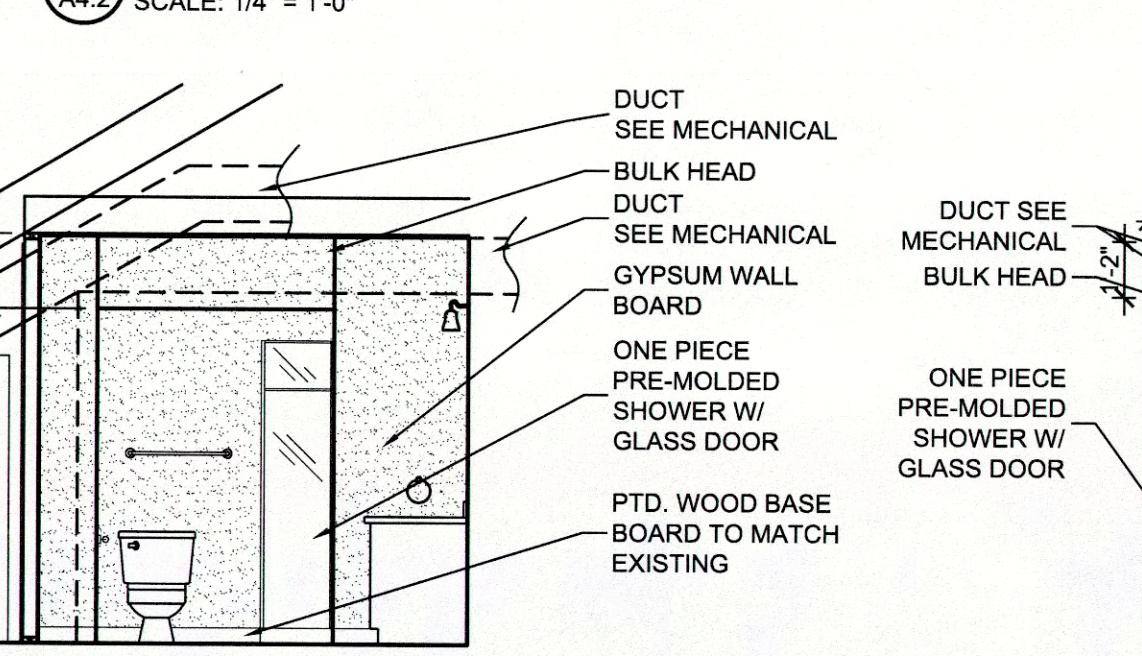
4C LAUNDRY ROOM
A4.2 SCALE: 1/4" = 1'-0"



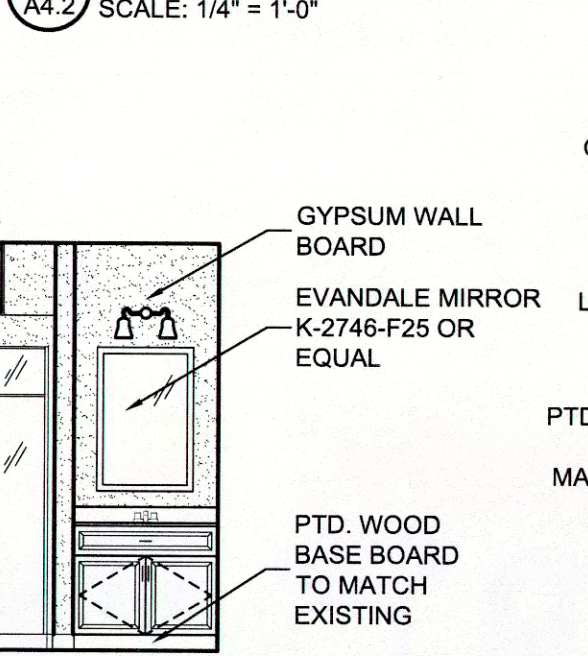
4D LAUNDRY ROOM
A4.2 SCALE: 1/4" = 1'-0"



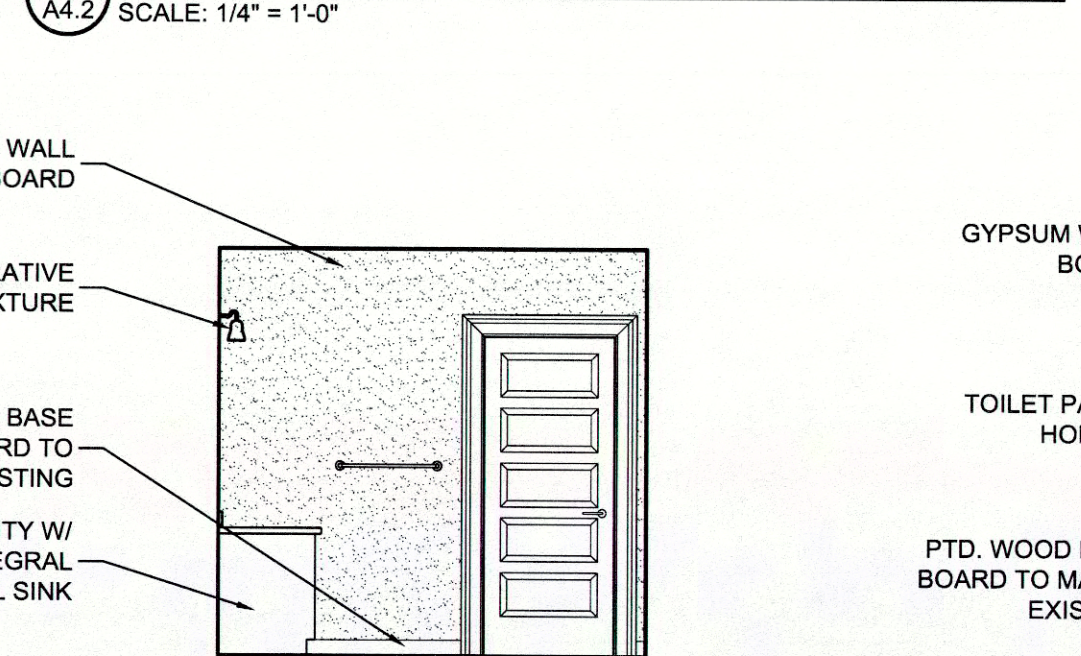
5 ENLARGED PLAN - GUEST BATHROOM - THIRD FLOOR
A4.2 SCALE: 1/4" = 1'-0"



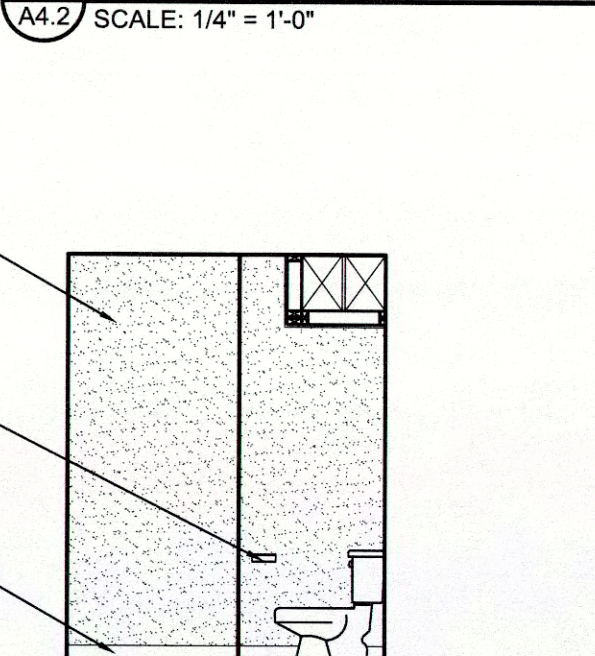
5A GUEST BATHROOM
A4.2 SCALE: 1/4" = 1'-0"



5B GUEST BATHROOM
A4.2 SCALE: 1/4" = 1'-0"



5C GUEST BATHROOM
A4.2 SCALE: 1/4" = 1'-0"



5D GUEST BATHROOM
A4.2 SCALE: 1/4" = 1'-0"

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

Murphy & Dittenhafer
ARCHITECTS
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410-823-4823, York, PA 410-823-4823, York, PA 410-823-4823



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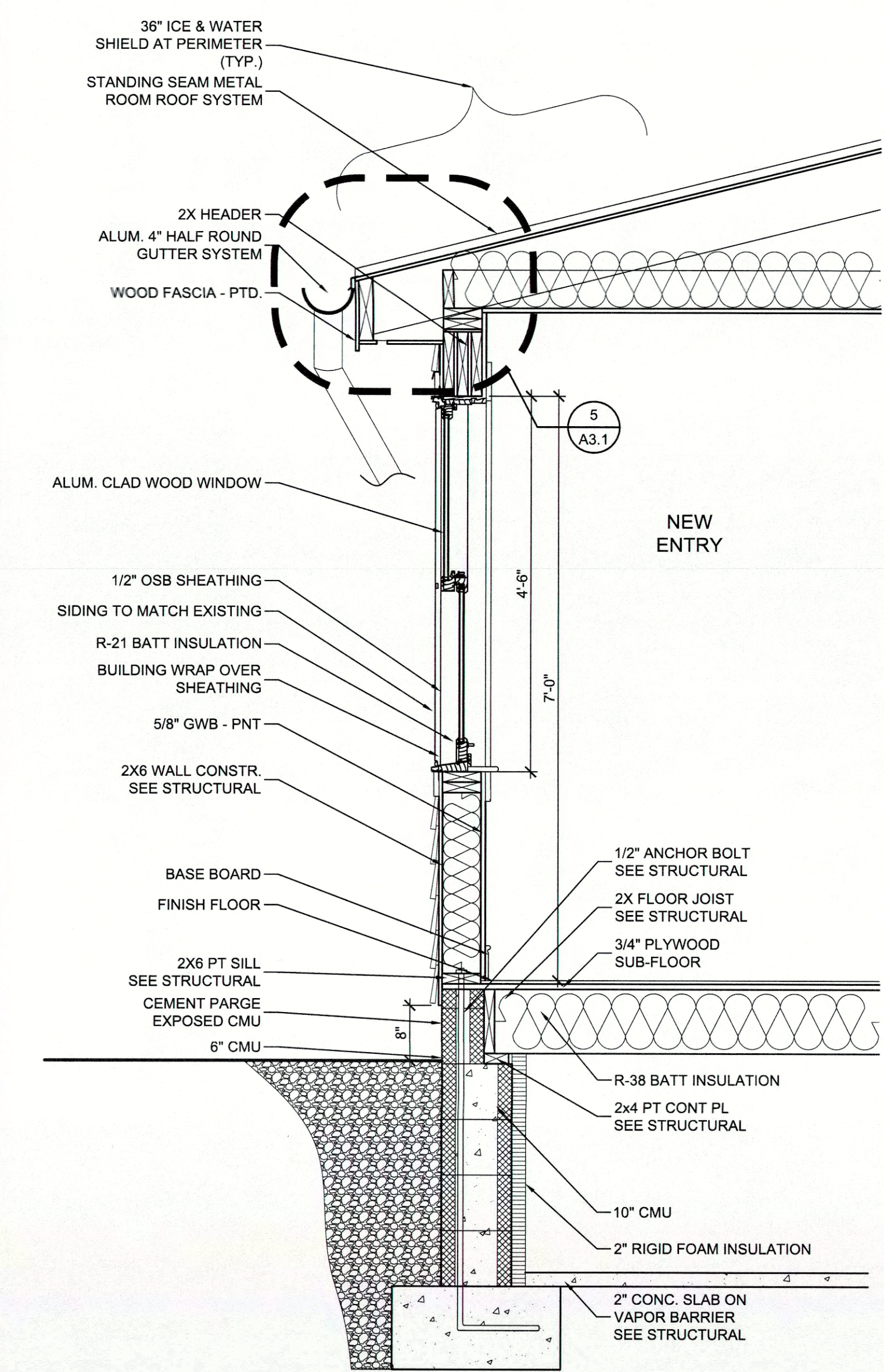
CONSULTANTS

Rev	Description	By	Date

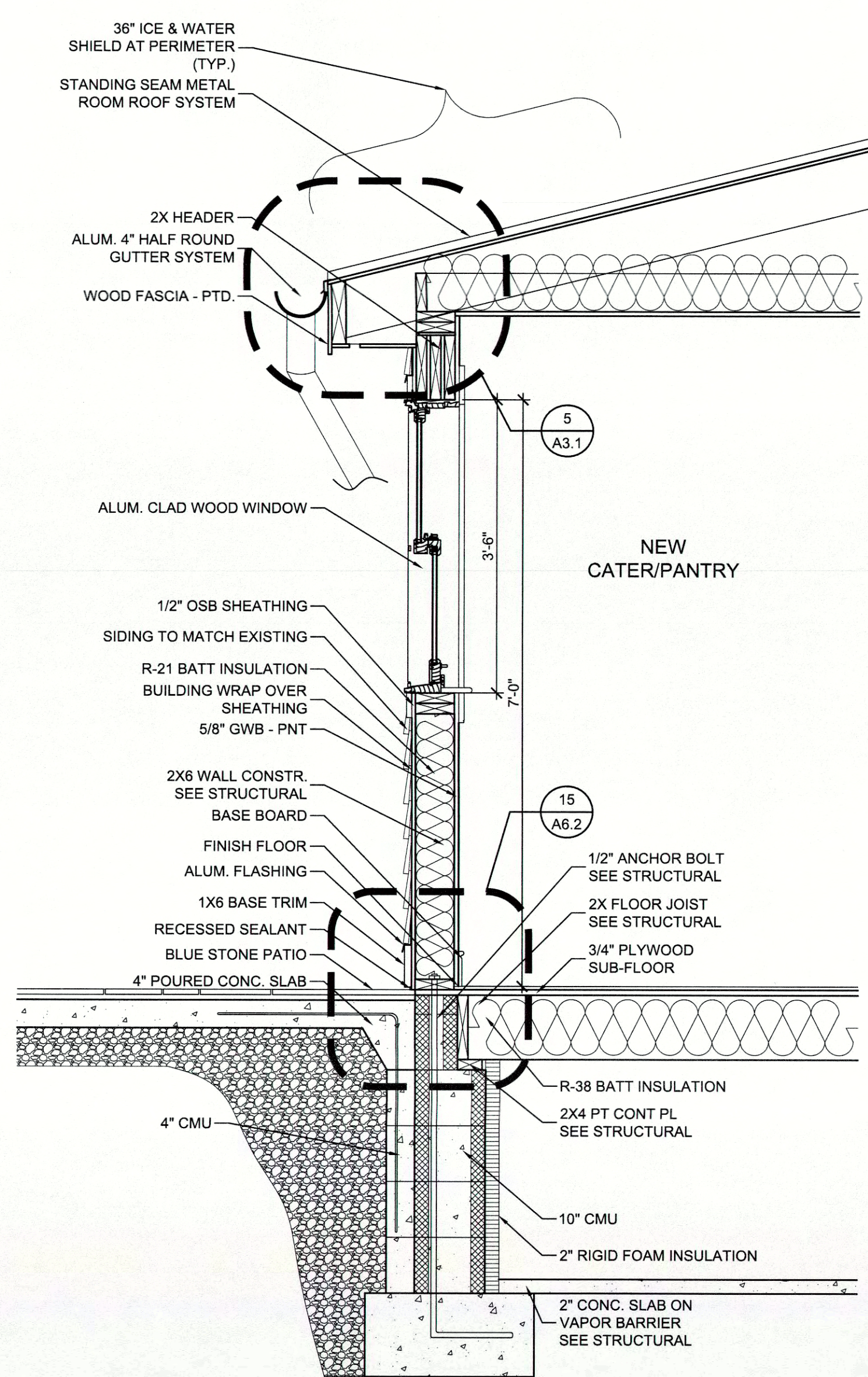
100% CONSTRUCTION DOCUMENTS

Project 10116	Date 05/09/14
Drawn by DLR	Checked by TRG
System Rep:	Drawing Number
Professional:	INTERIOR ELEVATIONS
Consultant:	A-4.2
Authorized by:	

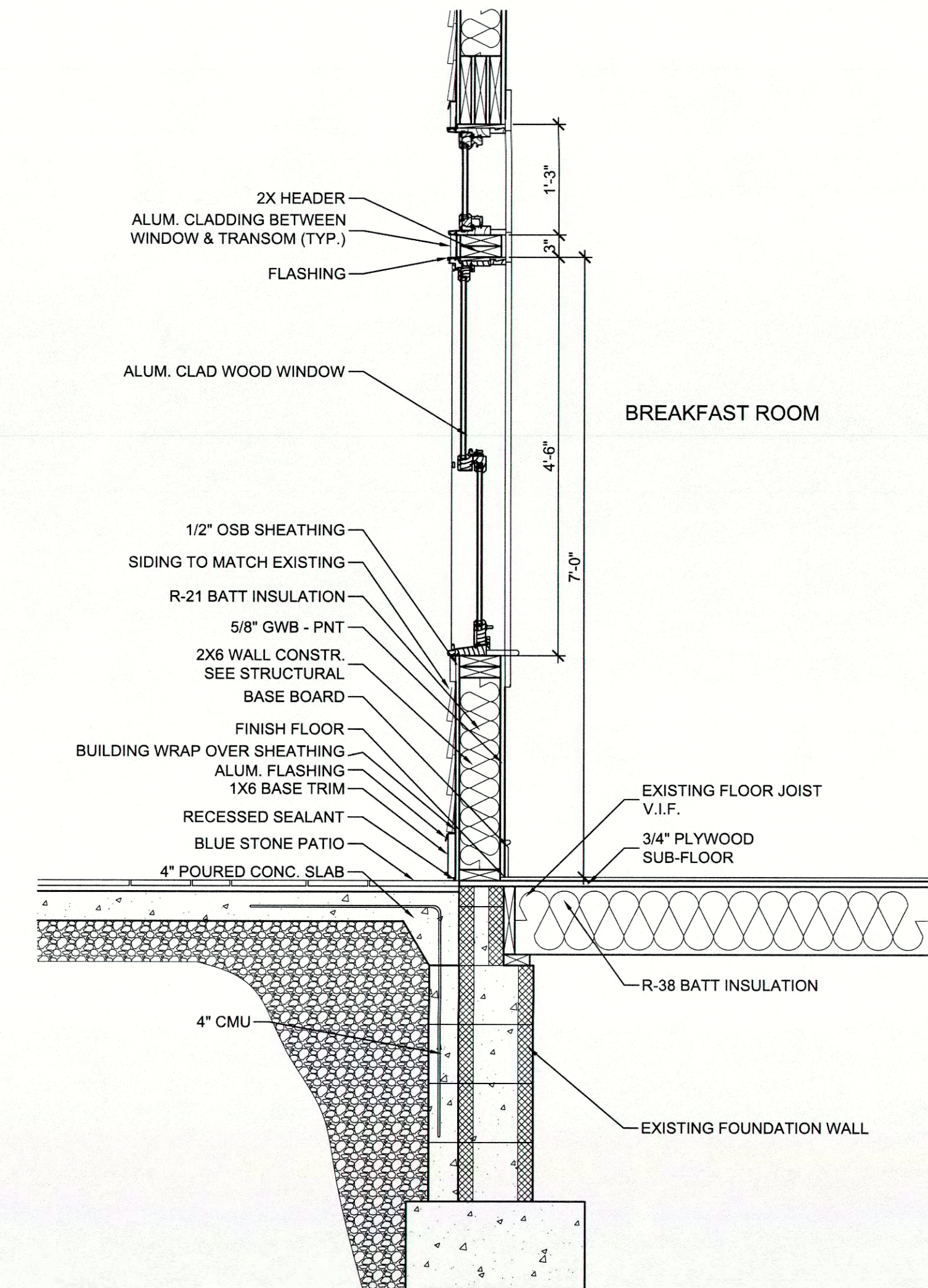




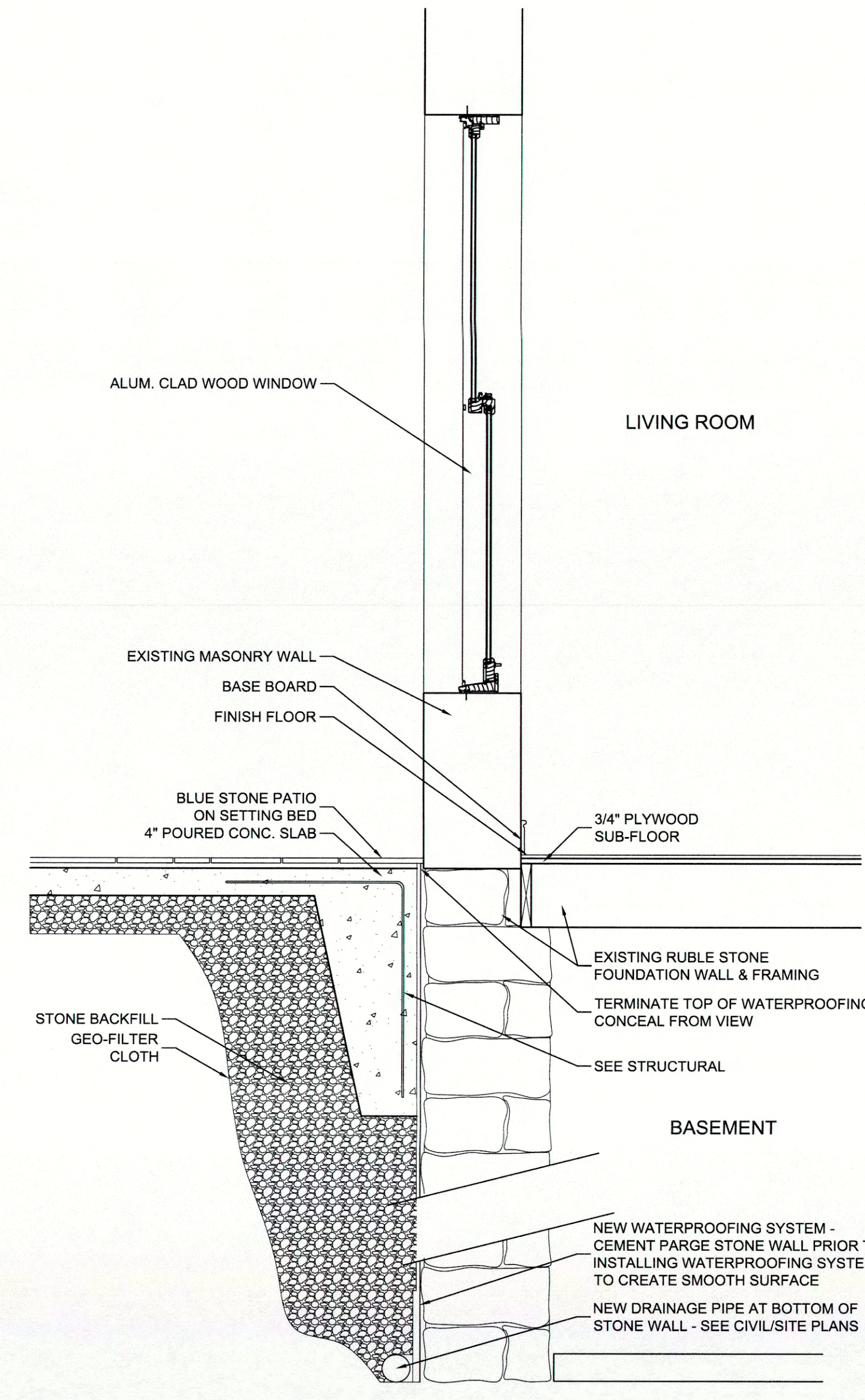
1 WALL SECTION
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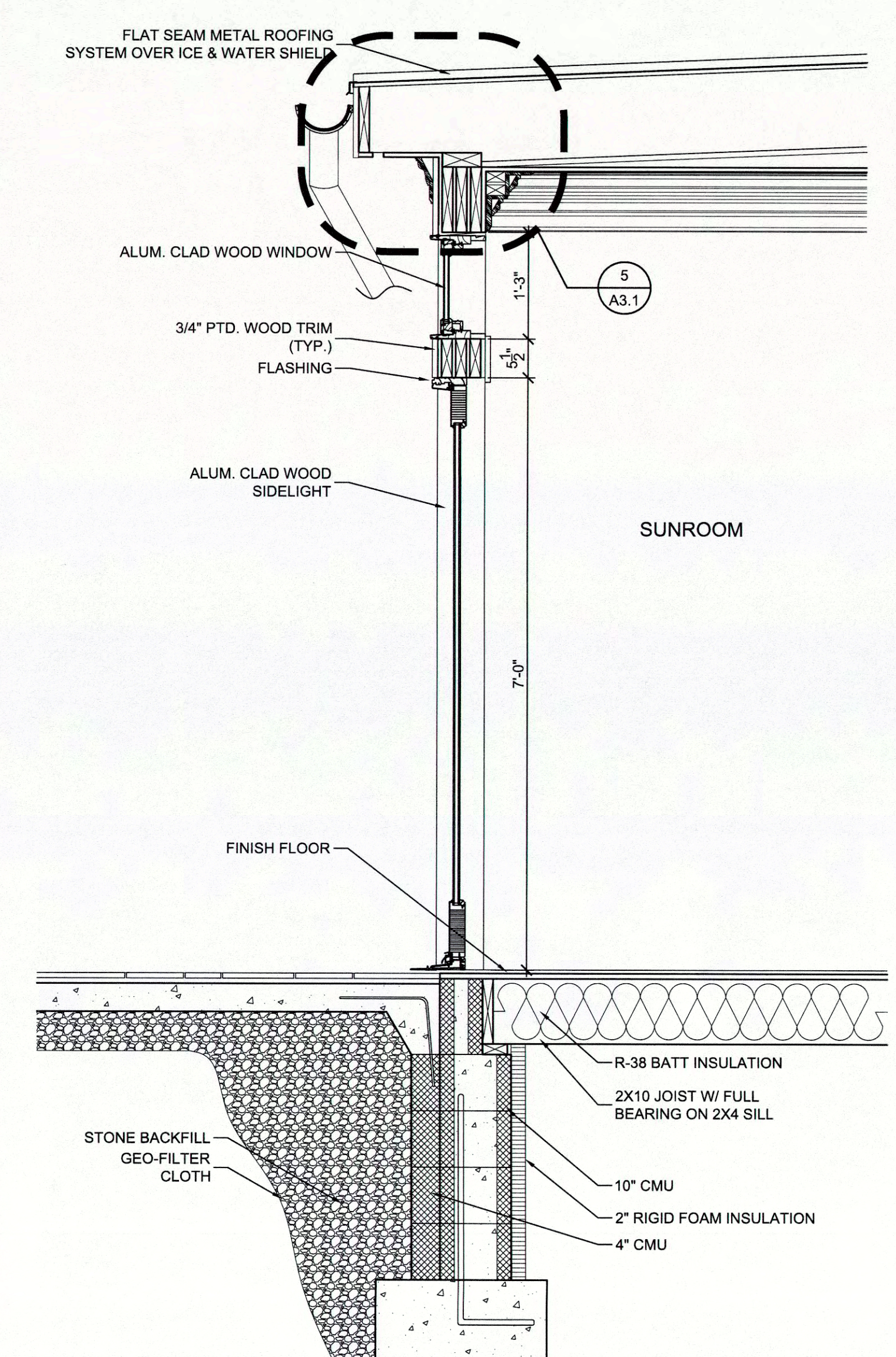
2 WALL SECTION
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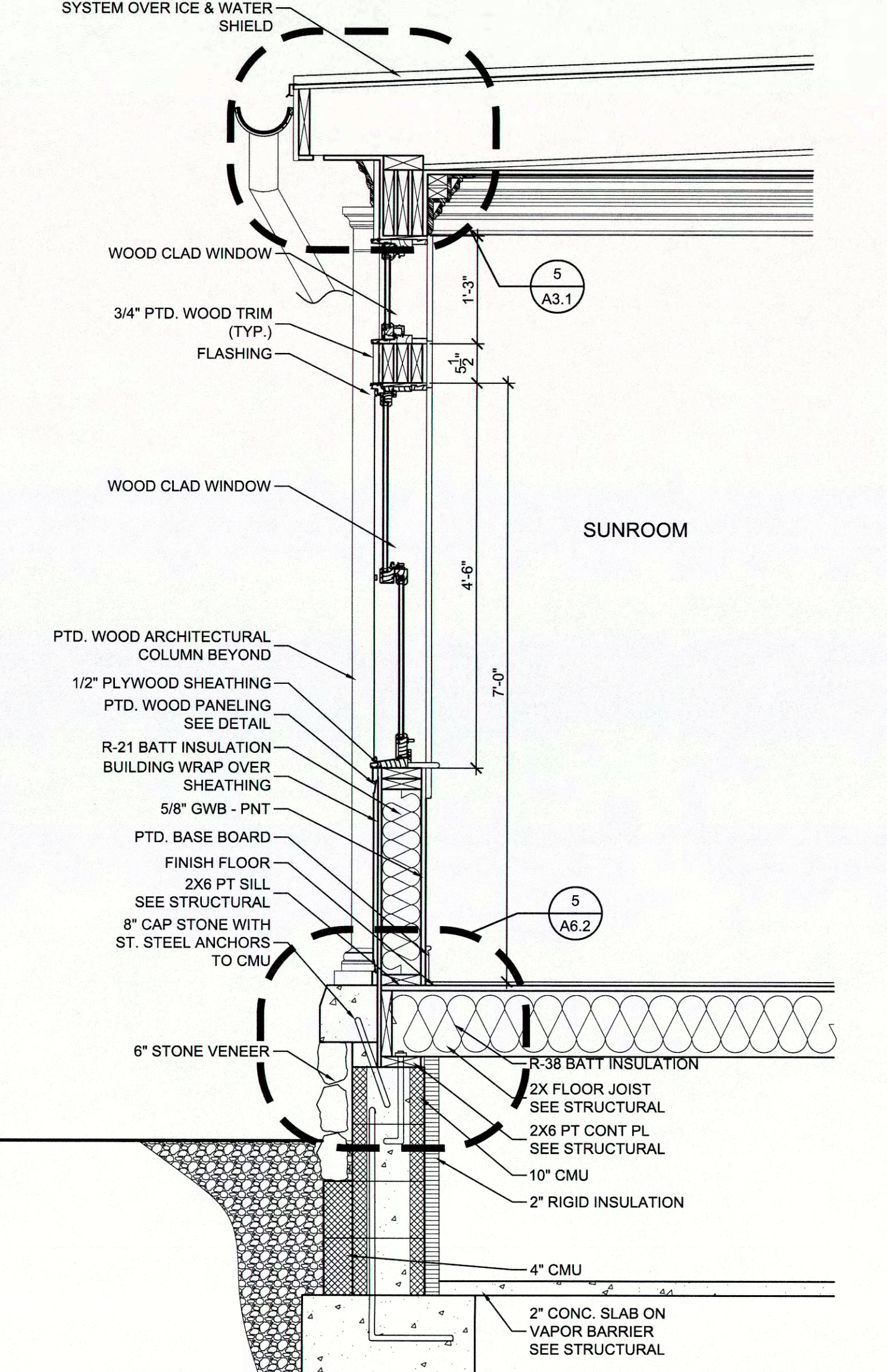
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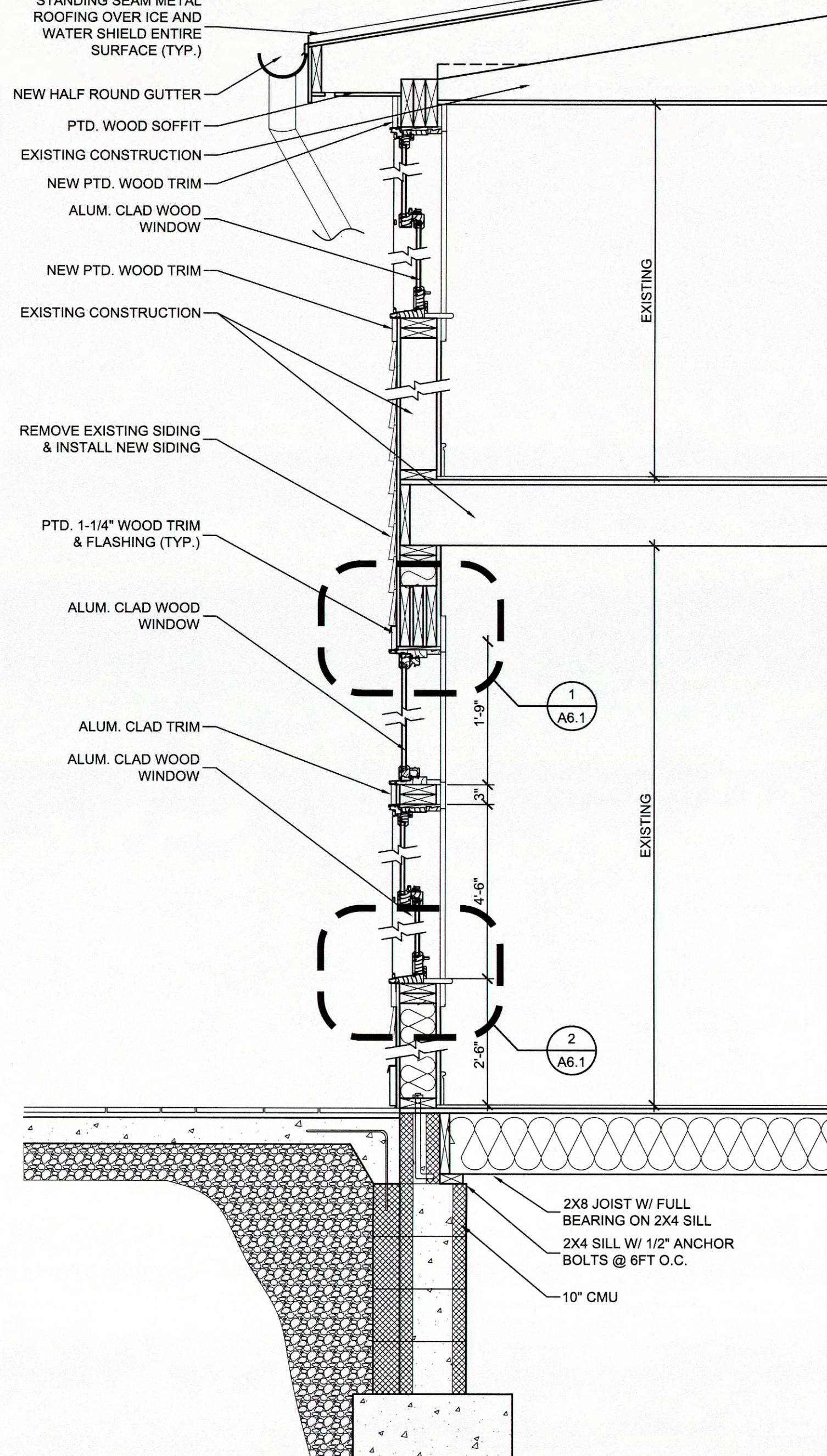
4 WALL SECTION
SCALE: 3/4" = 1'-0"




5 WALL SECTION
SCALE: 3/4" = 1'-0"



6 WALL SECTION
SCALE: 3/4" = 1'-0"



7 WALL SECTION
SCALE: 3/4" = 1'-0"

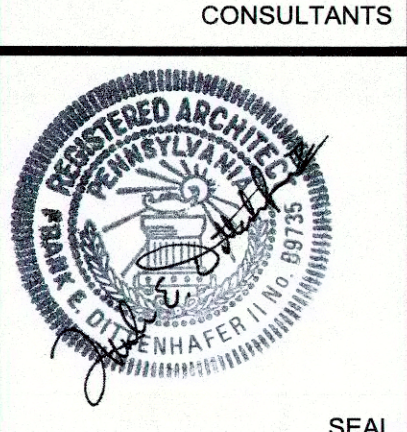


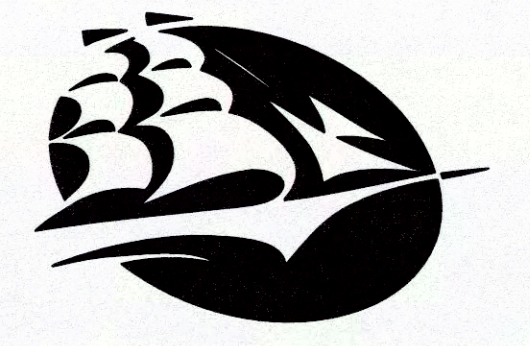
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Rev	Description	By	Date
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COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:		Drawing Number	
Professional:		WALL SECTIONS	
Consultant:		A-5.1	
Authorized by:			

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 410-528-6222 Voice • 410-528-6224 Fax
 228 West Market Street, York, Pennsylvania 17401
 717-492-4222 Voice • 717-492-4248 Fax

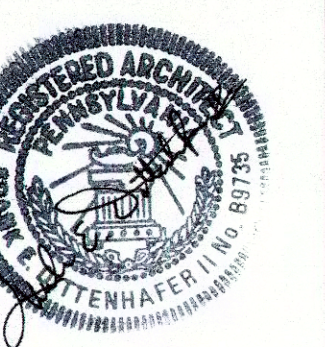




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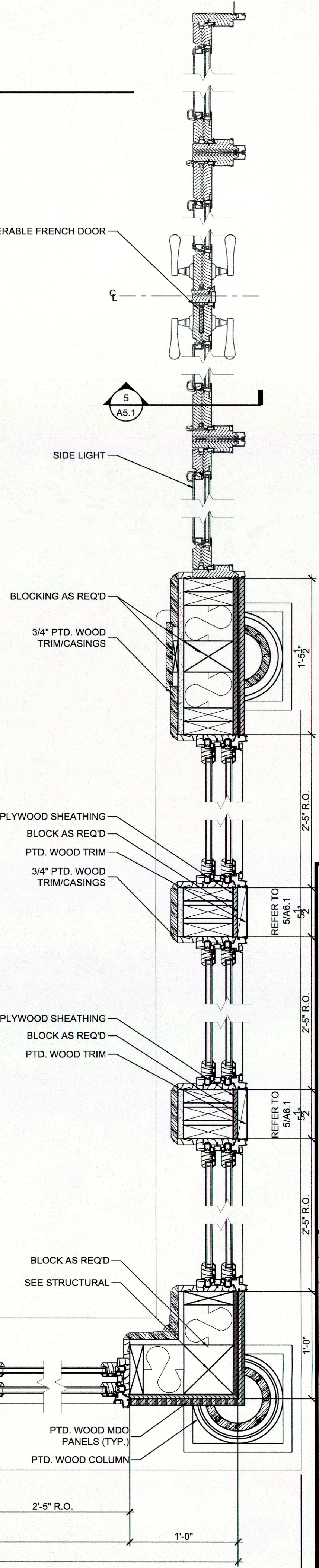
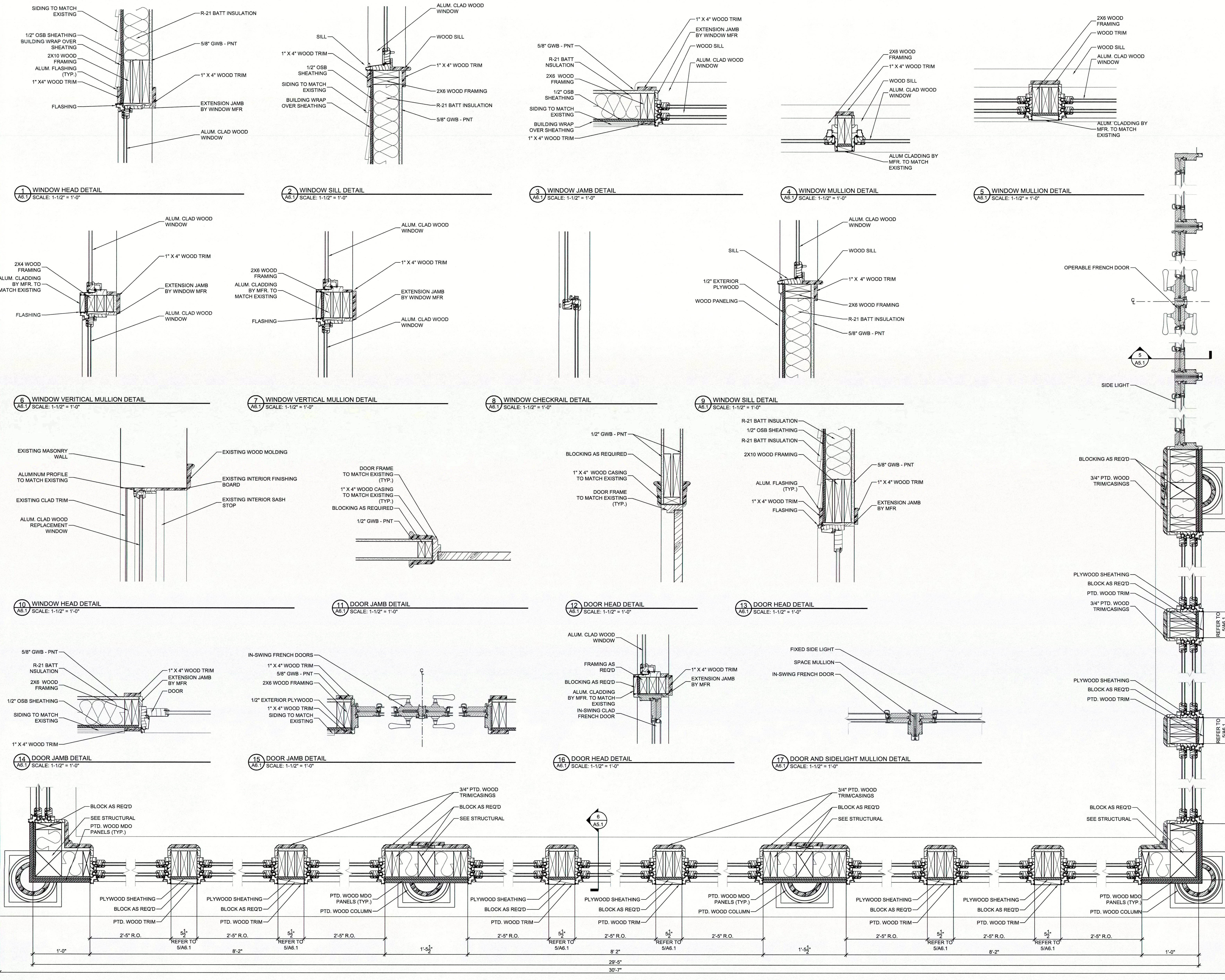
PROJECT NO. SU - 2010/6B

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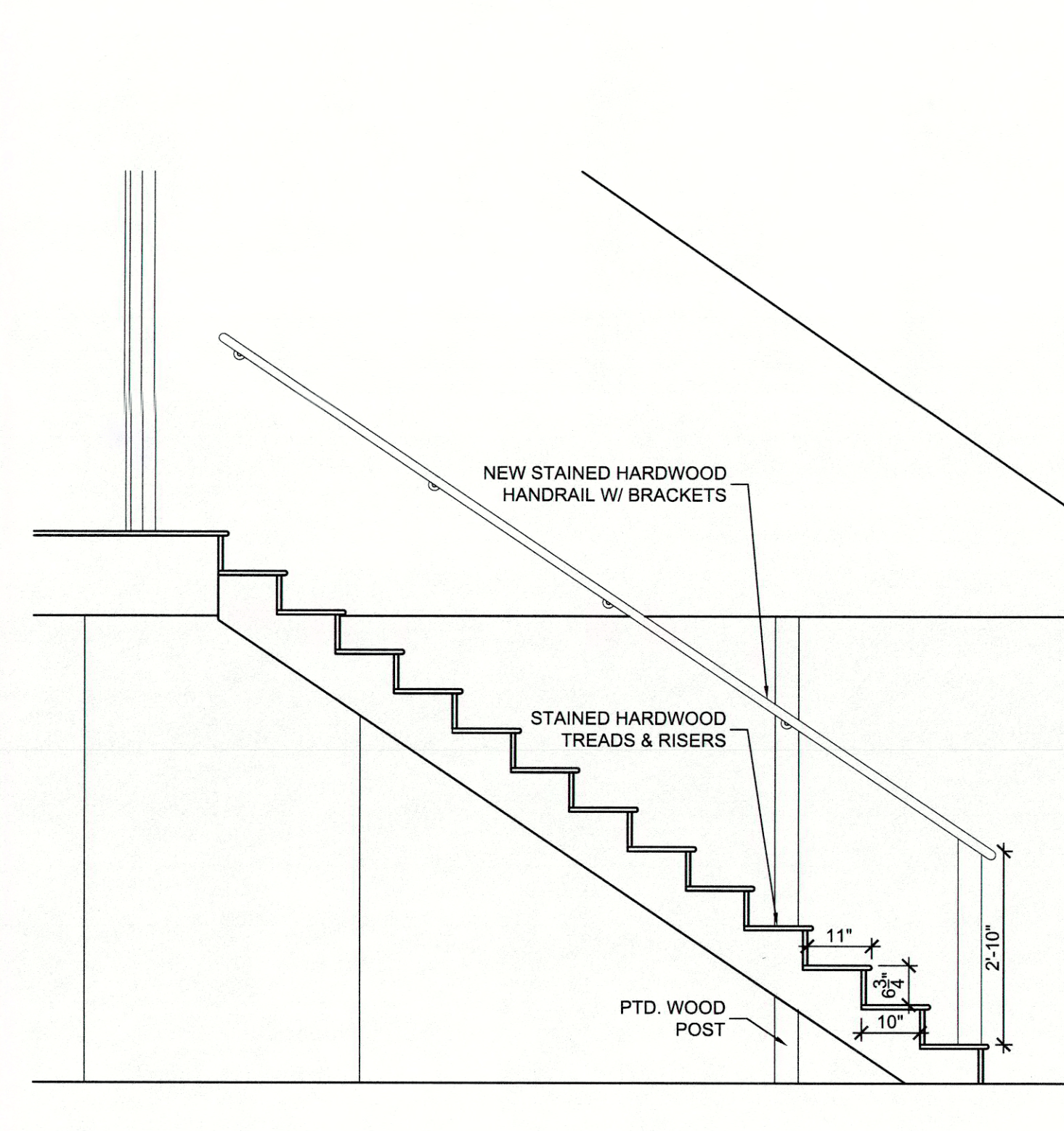


Rev	Description	By	Date
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COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
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Consultant:			
Authorized by:			

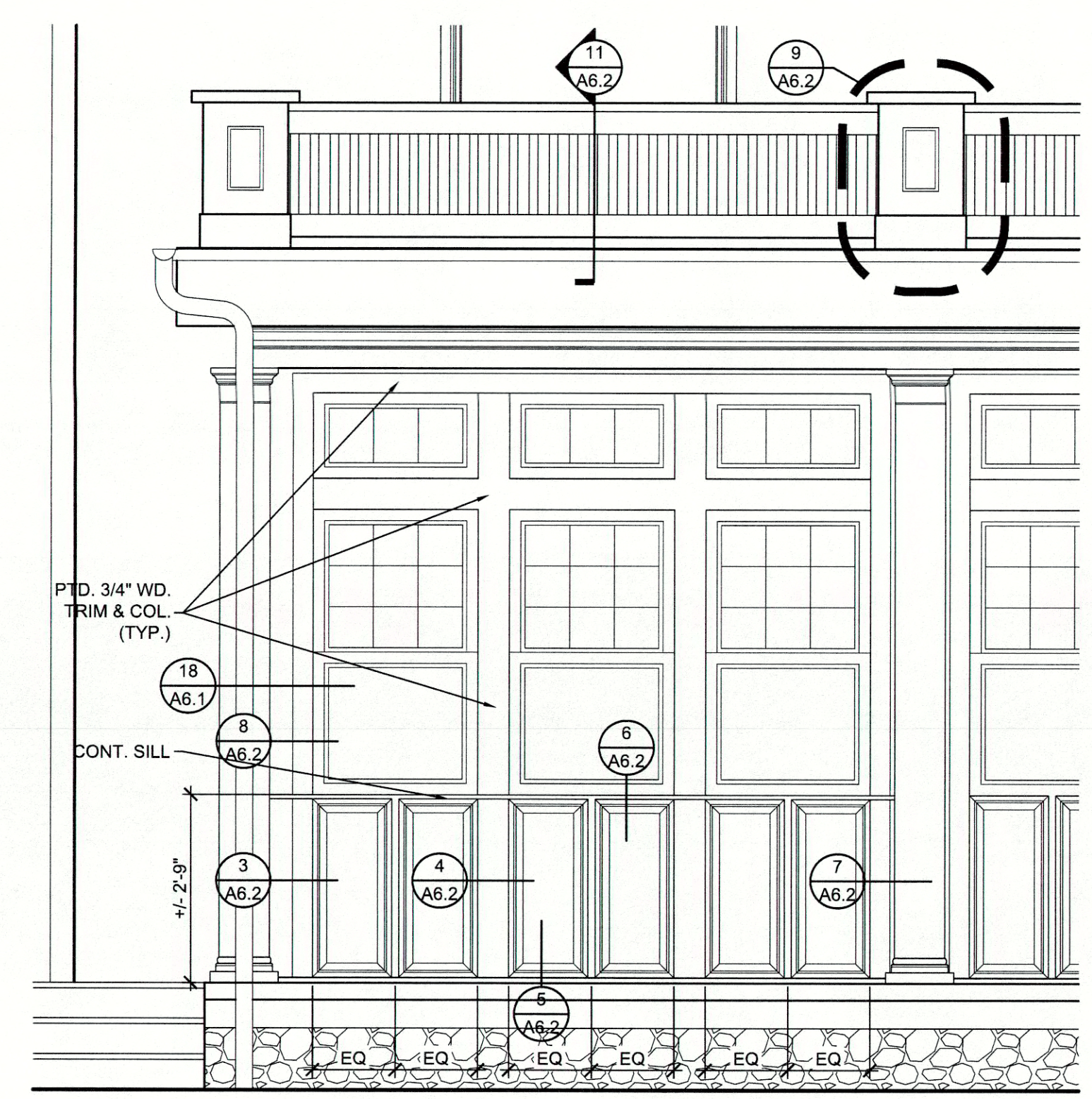
Project: 10116 Date: 05/09/14
Drawn by: DLR Checked by: TRG
Drawing Number: DETAILS
A-6.1



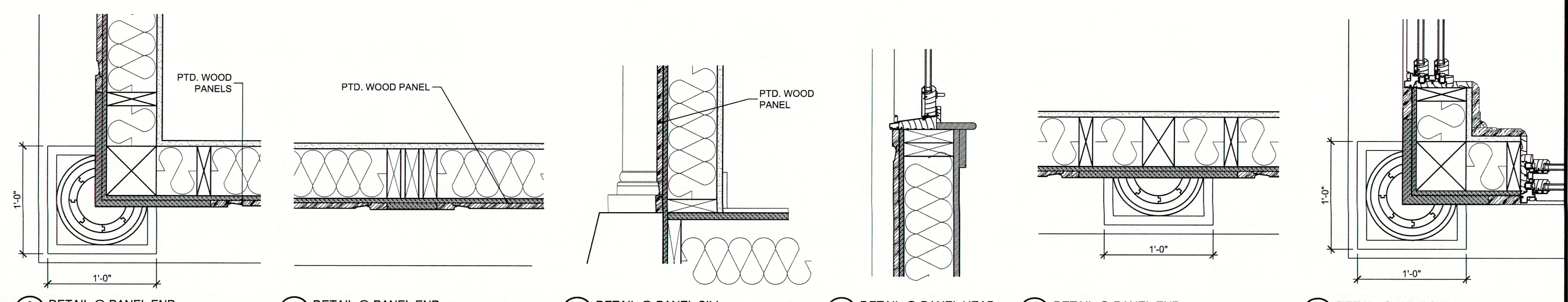
18 SUNROOM JAMB DETAILS
SCALE: 1-1/2" = 1'-0"



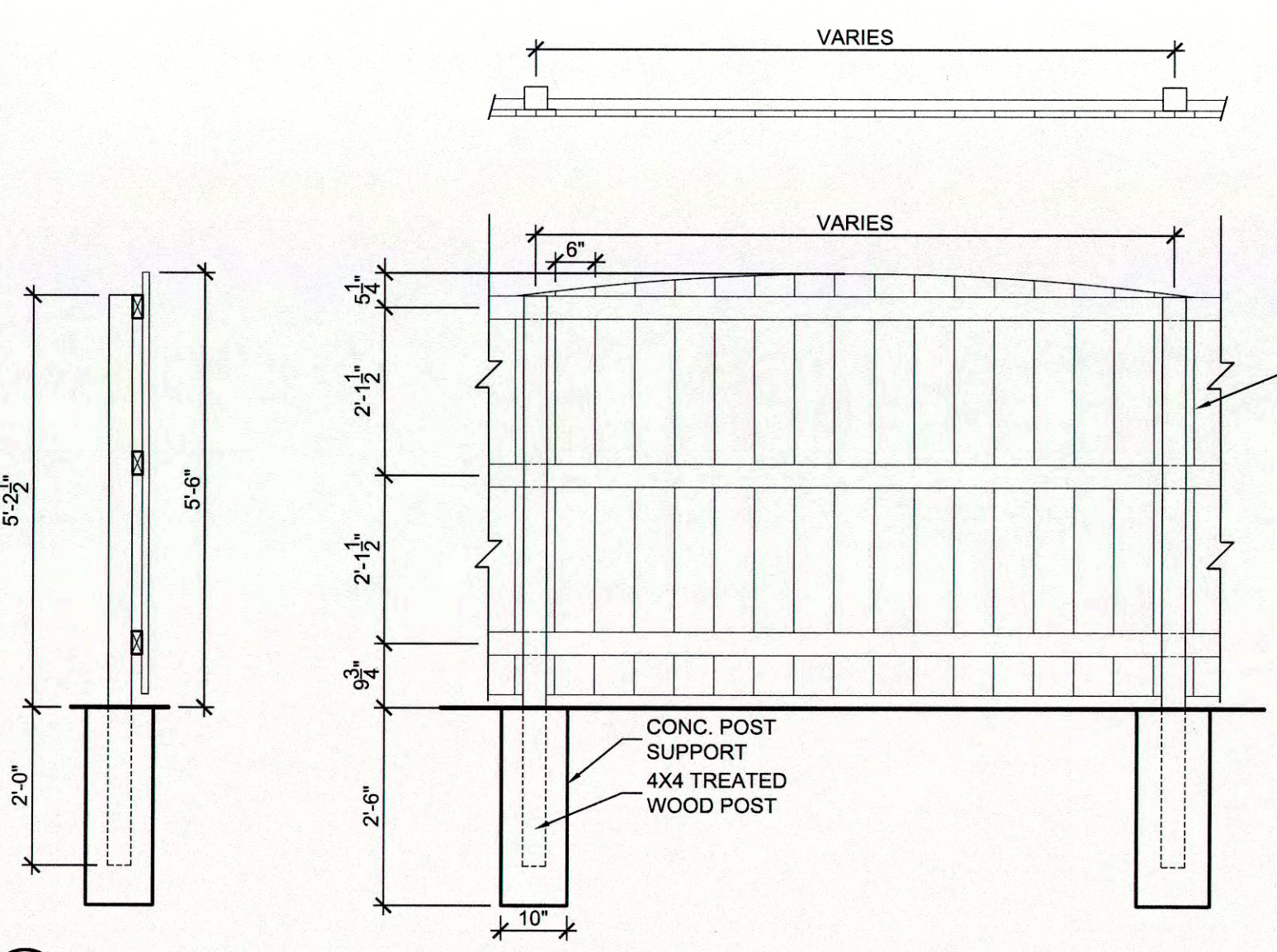
1 NEW BASEMENT STAIR
SCALE: 1/2" = 1'-0"



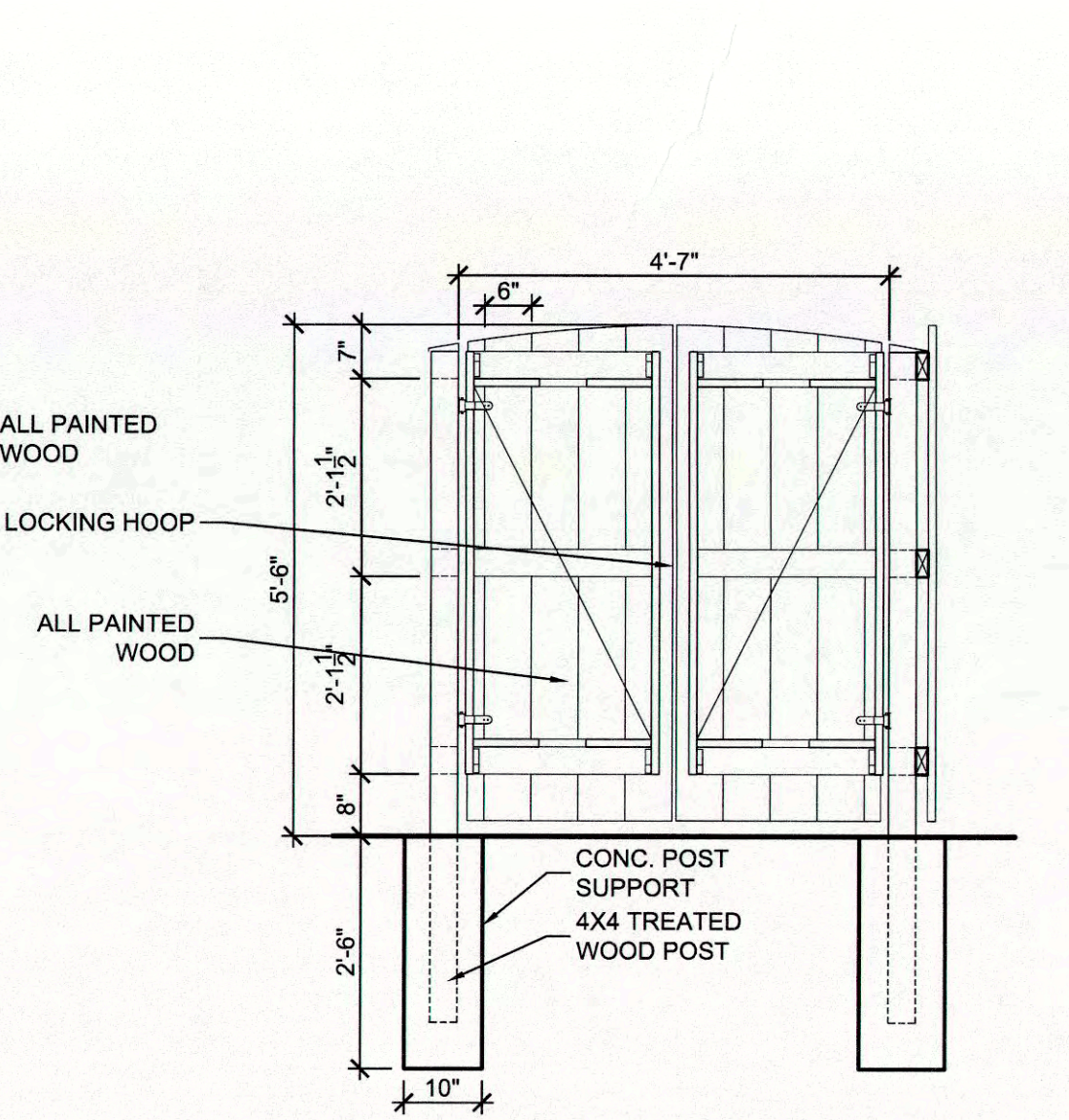
2 SUNROOM
SCALE: 1/2" = 1'-0"



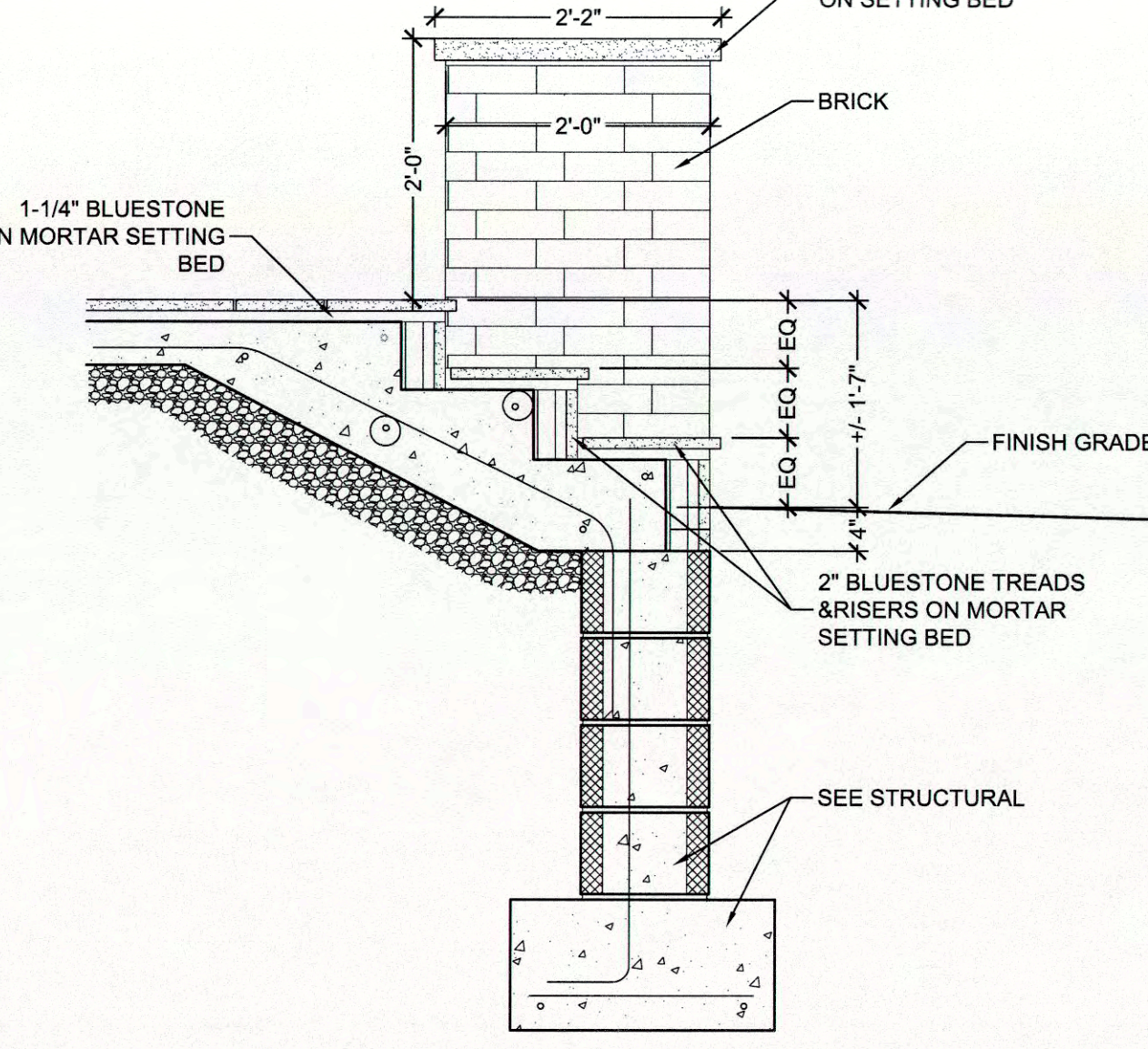
3 DETAIL @ PANEL END SCALE: 1-1/2" = 1'-0"
 4 DETAIL @ PANEL END SCALE: 1-1/2" = 1'-0"
 5 DETAIL @ PANEL SILL SCALE: 1-1/2" = 1'-0"
 6 DETAIL @ PANEL HEAD SCALE: 1-1/2" = 1'-0"
 7 DETAIL @ PANEL END SCALE: 1-1/2" = 1'-0"
 8 DETAIL @ WINDOW SCALE: 1-1/2" = 1'-0"
 9 DETAIL SCALE: 1-1/2" = 1'-0"
 10 DETAIL SCALE: 1-1/2" = 1'-0"
 11 DETAIL SCALE: 1-1/2" = 1'-0"



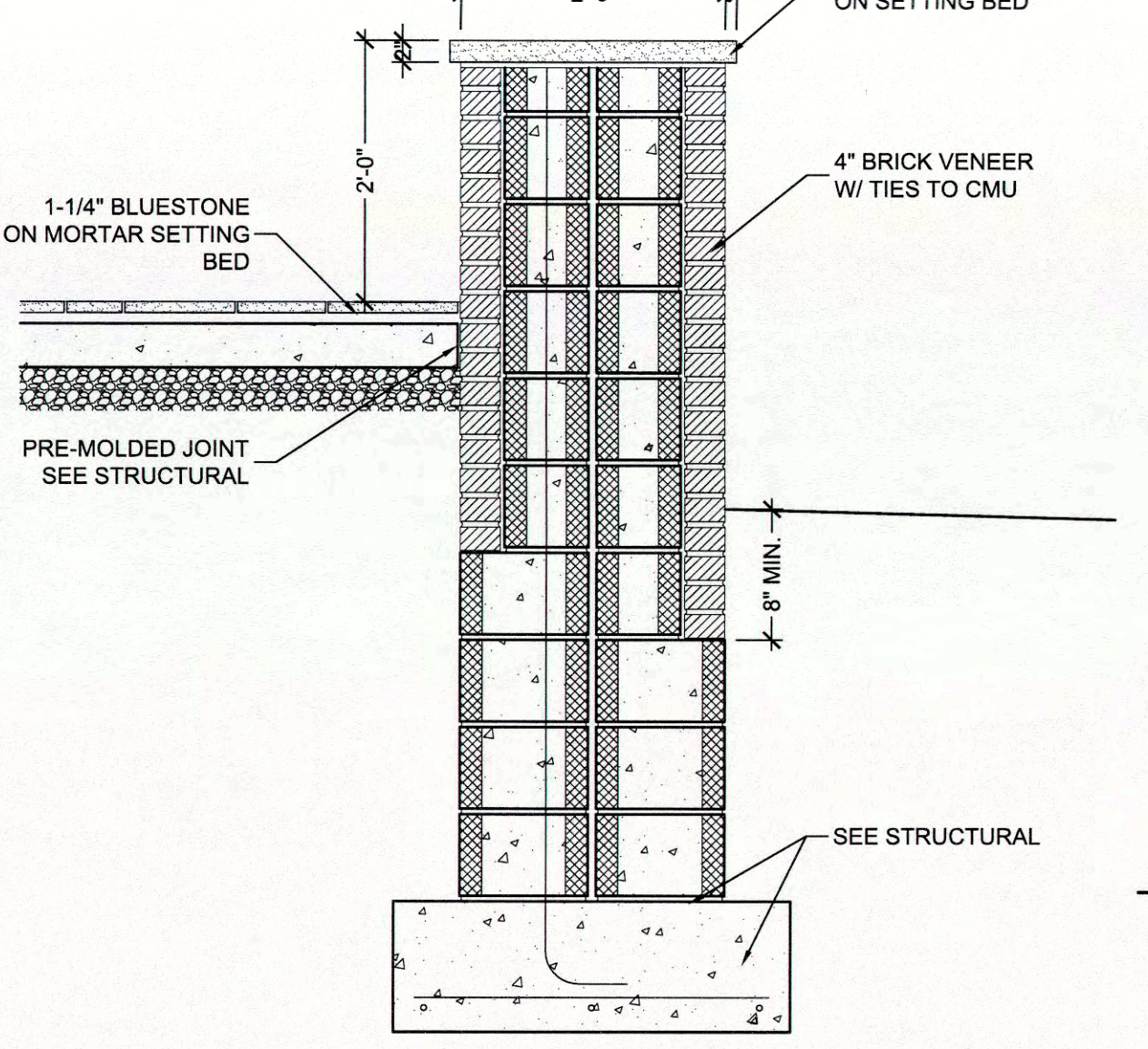
12 WOOD FENCE DETAIL
SCALE: 1/2" = 1'-0"



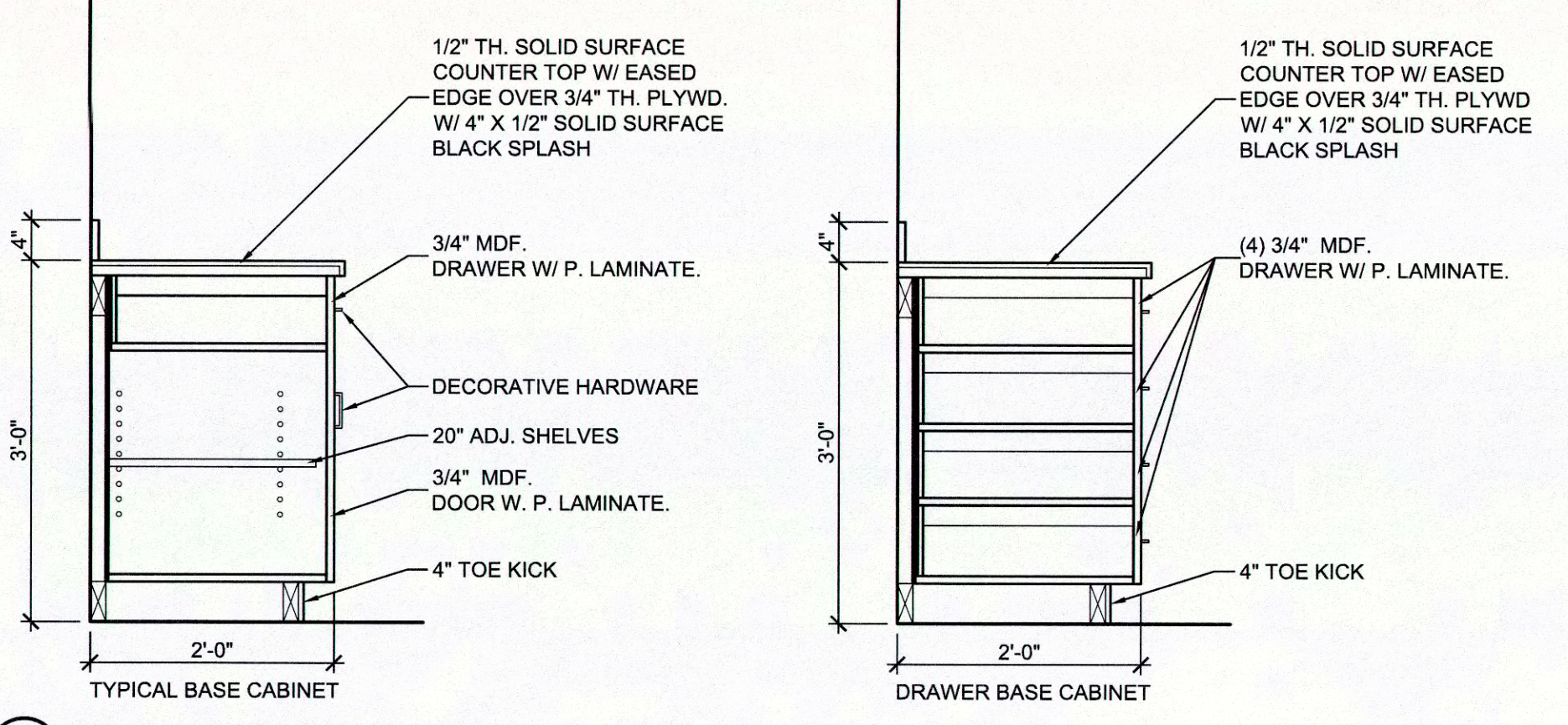
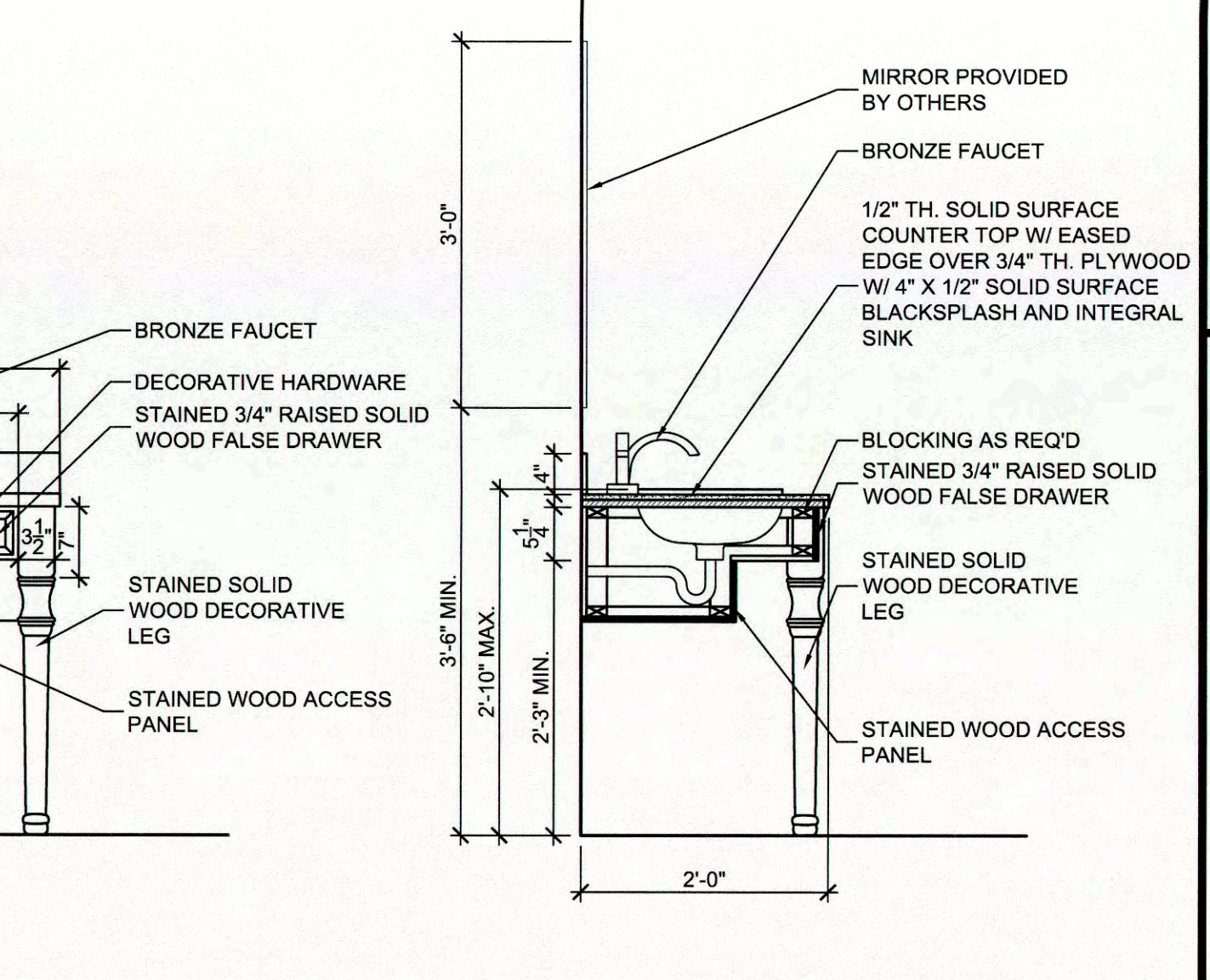
13 TERRACE STEP DETAIL - SEE STRUCTURAL
SCALE: 3/4" = 1'-0"



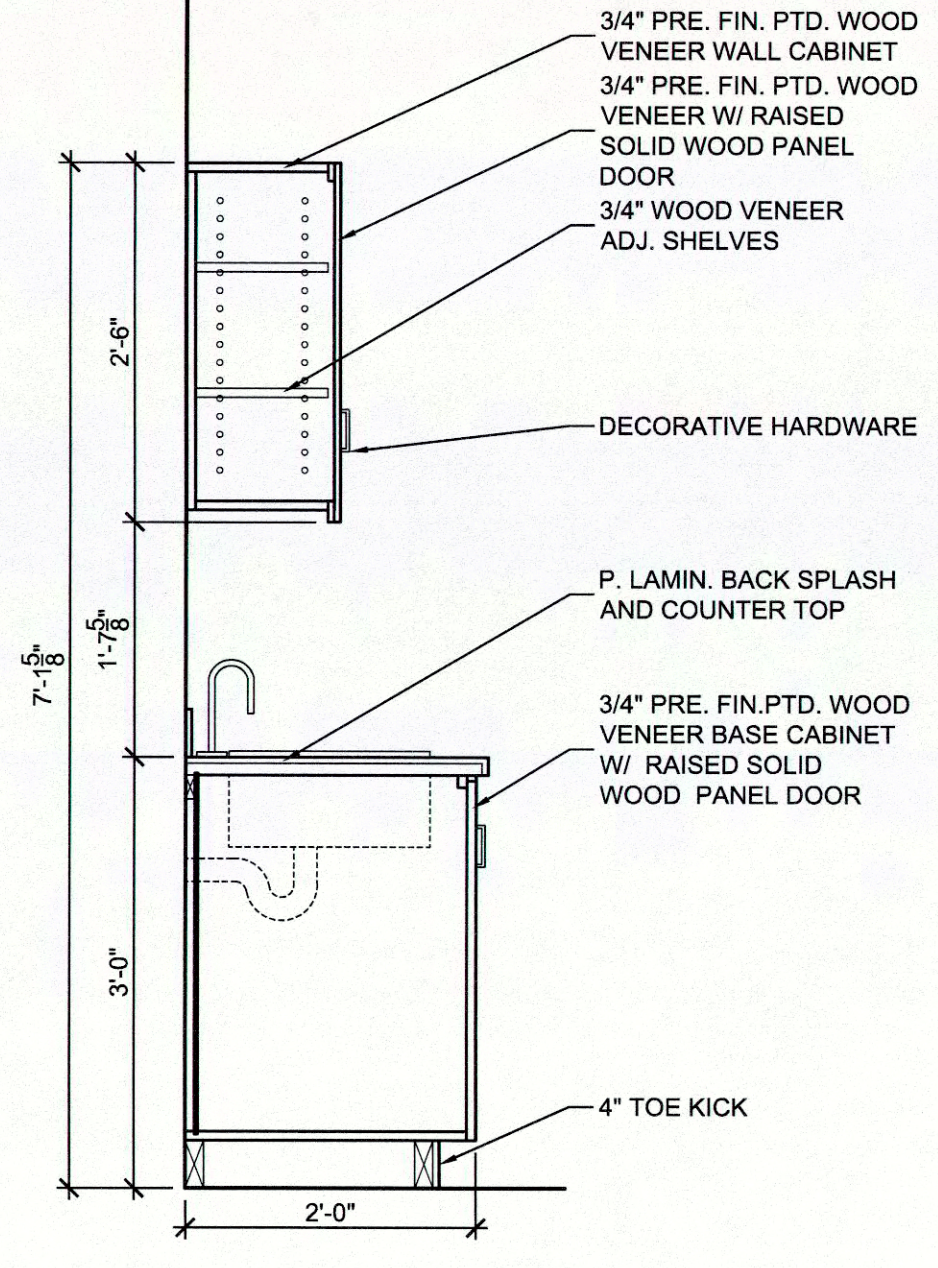
14 TERRACE BOX DETAIL - SEE STRUCTURAL
SCALE: 3/4" = 1'-0"



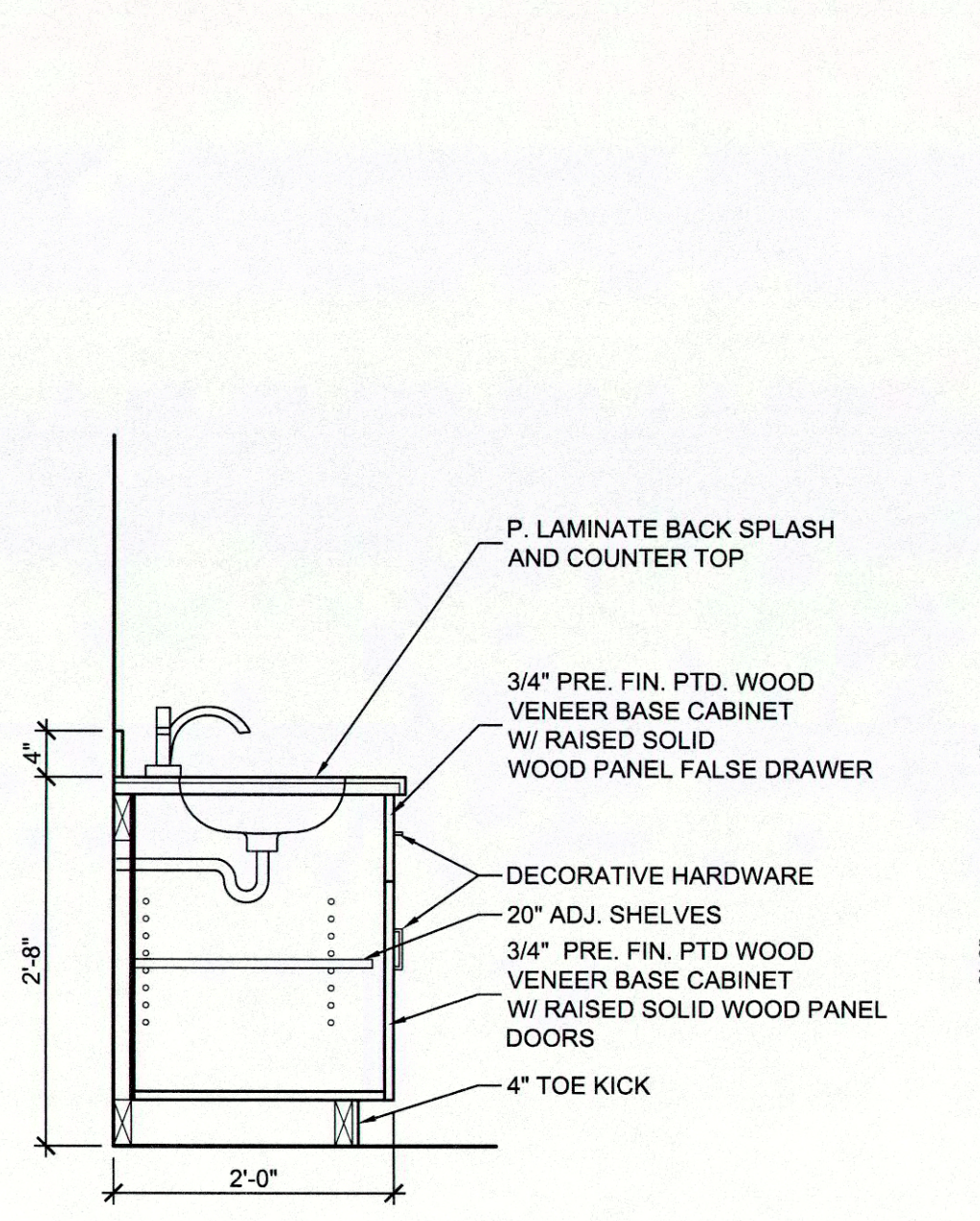
15 VANITY DETAIL - ROOM 104
SCALE: 3/4" = 1'-0"



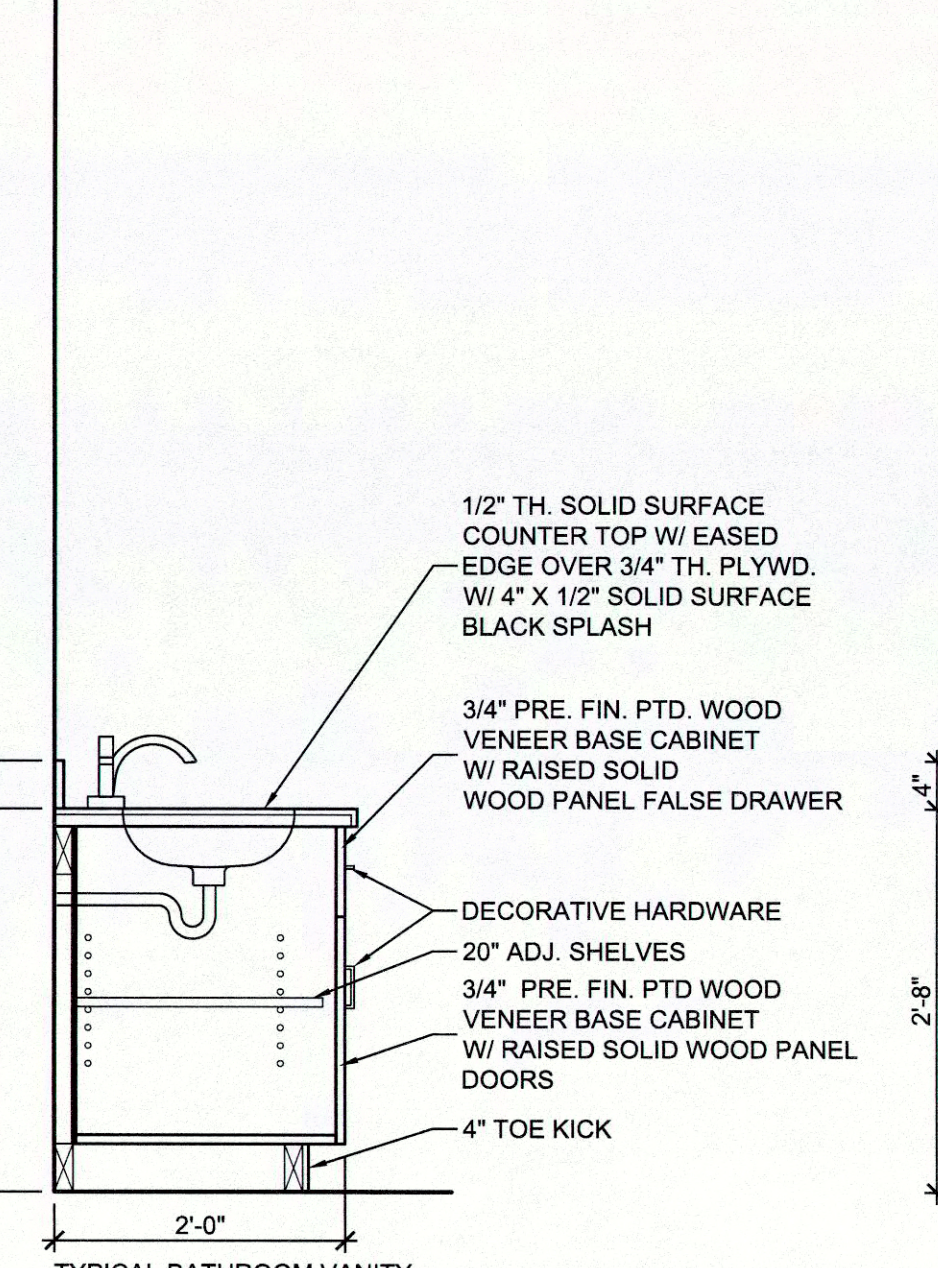
16 CATERS/PANTERY CABINET DETAILS
SCALE: 3/4" = 1'-0"



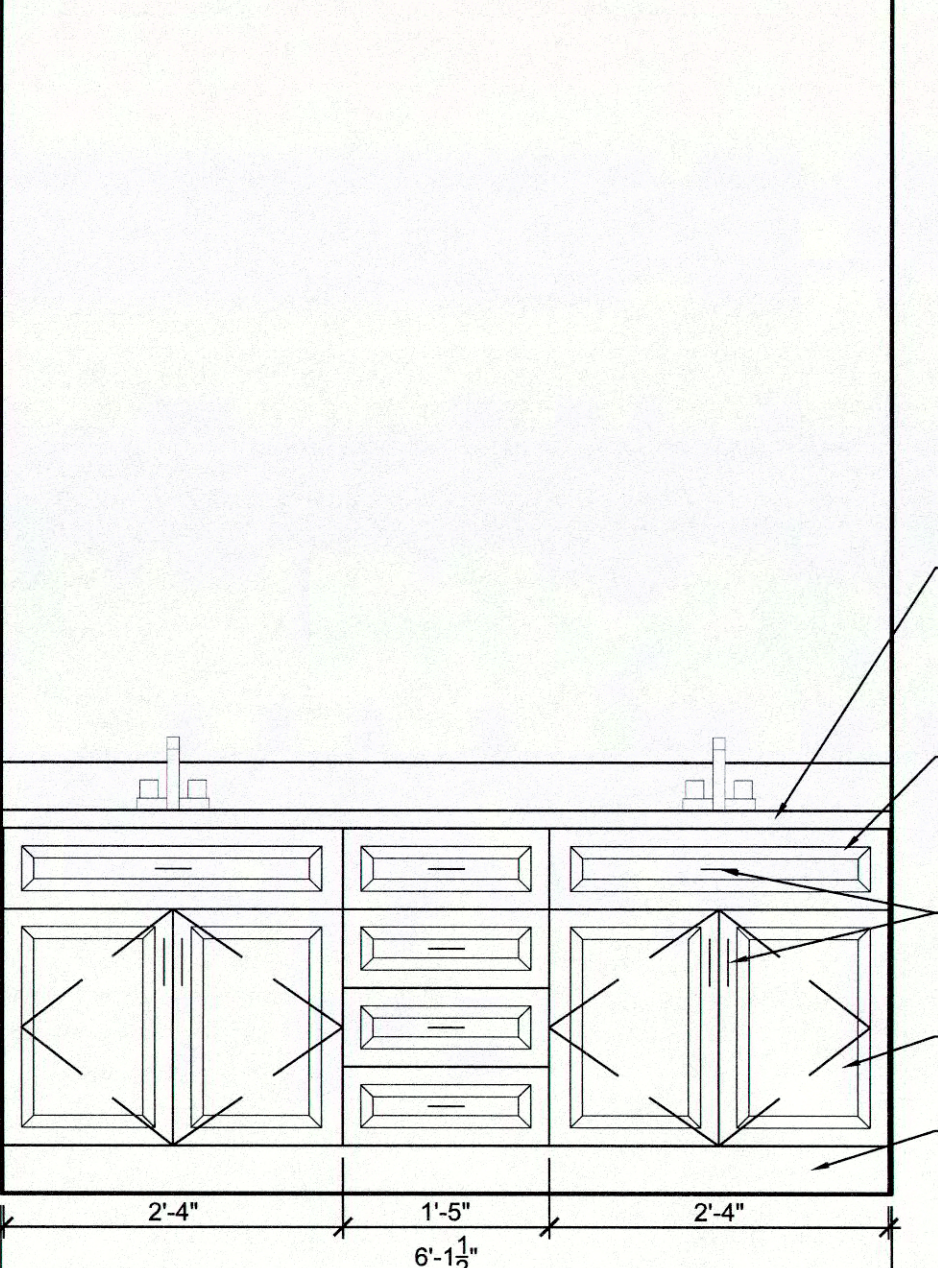
17 LAUNDRY ROOM CABINERY DETAILS
SCALE: 3/4" = 1'-0"



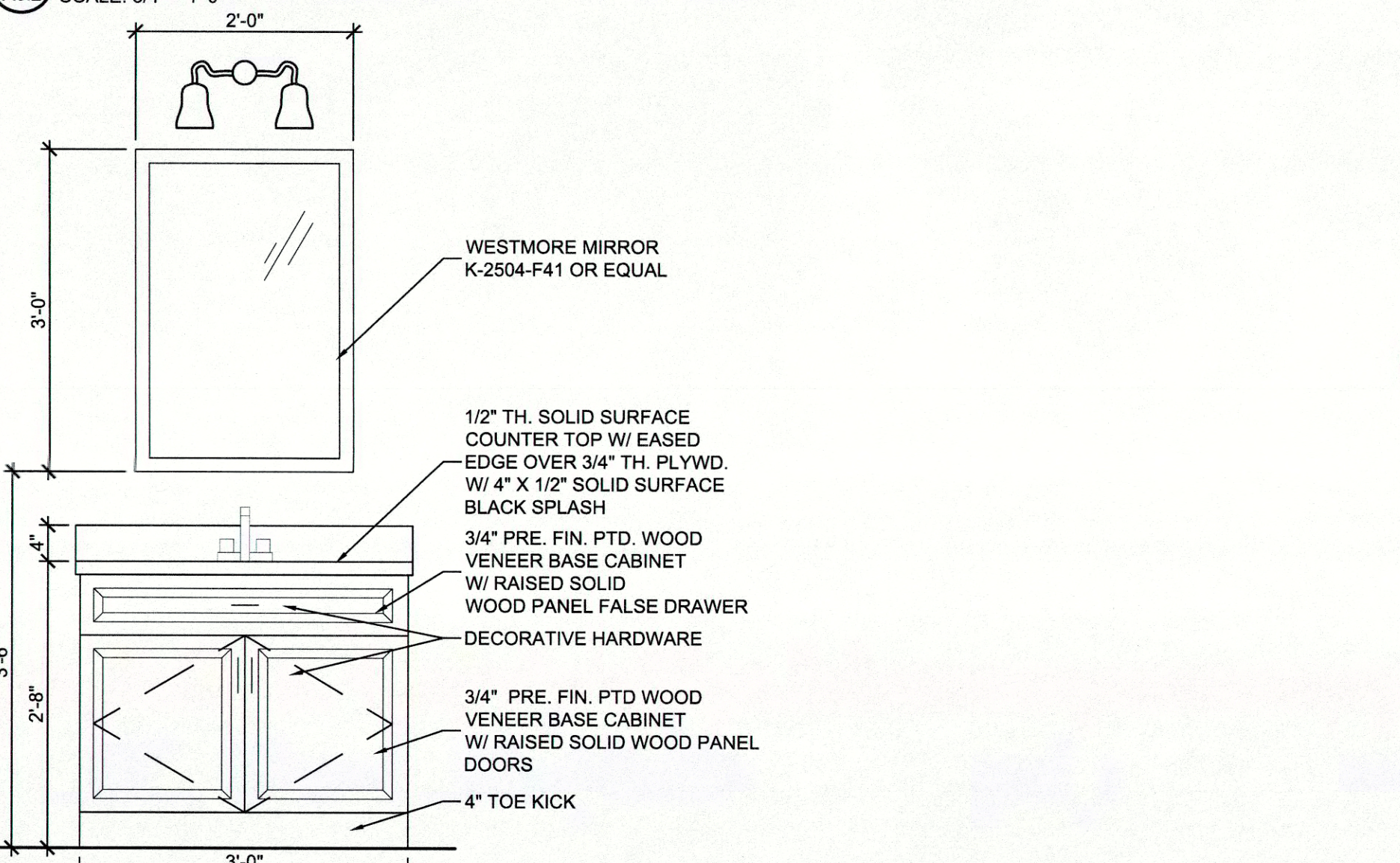
18 GUEST BATHROOM VANITY
SCALE: 3/4" = 1'-0"



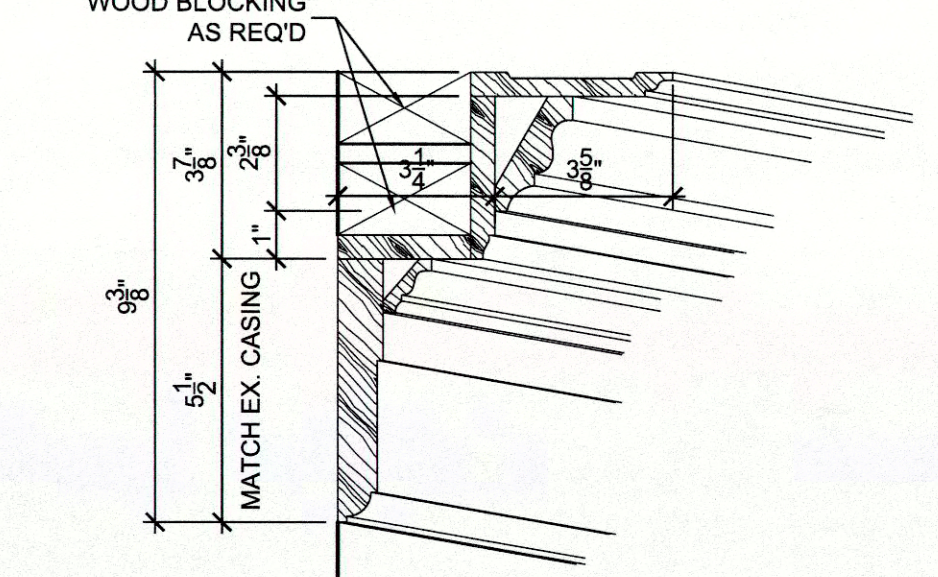
19 MASTER BATHROOM VANITY
SCALE: 3/4" = 1'-0"



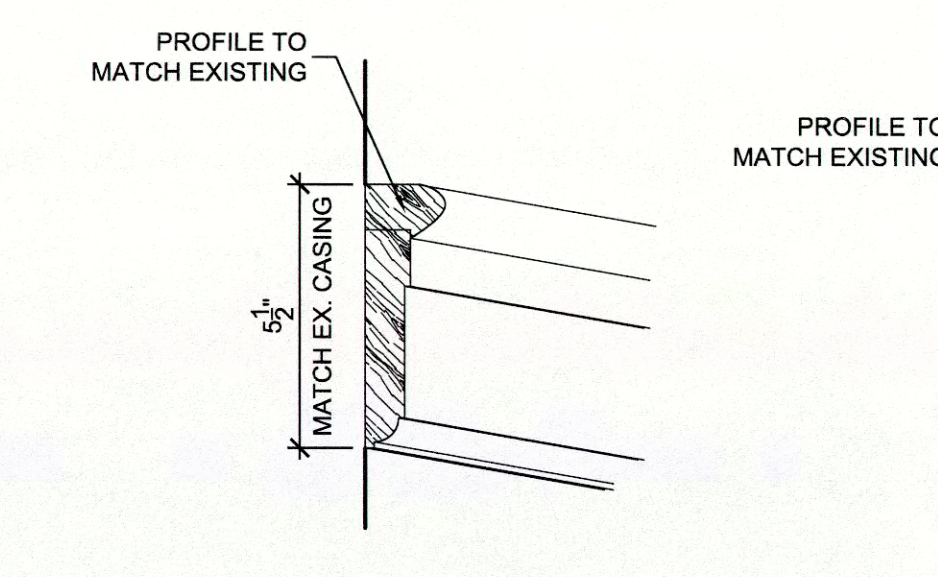
20 SHARED BATHROOM VANITY
SCALE: 3/4" = 1'-0"



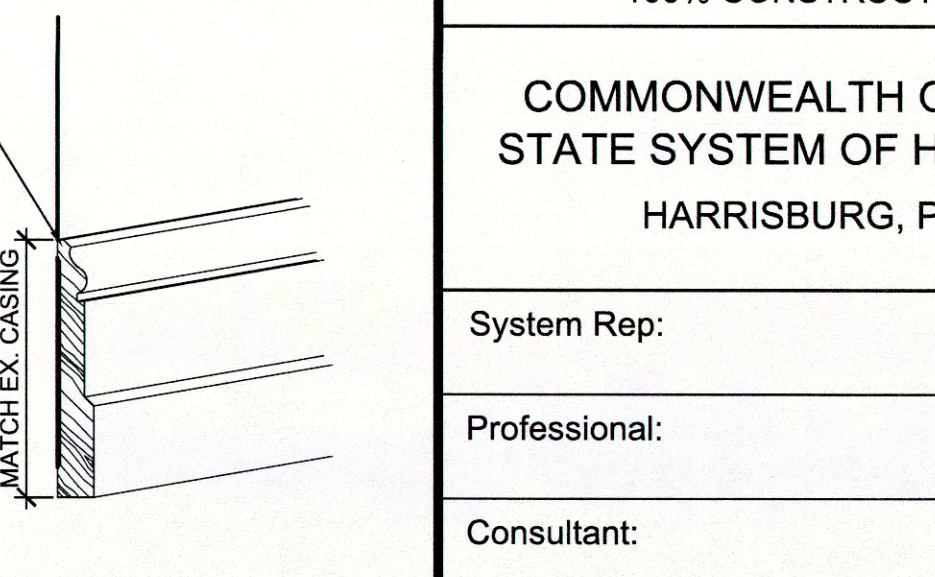
20 SHARED BATHROOM VANITY
SCALE: 3/4" = 1'-0"



21 CROWN MOULD DETAIL @ SUNROOM WINDOWS
SCALE: 3" = 1'-0"



22 WINDOW CASING DETAIL
SCALE: 3" = 1'-0"



23 BASE MOULD DETAIL
SCALE: 3" = 1'-0"

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

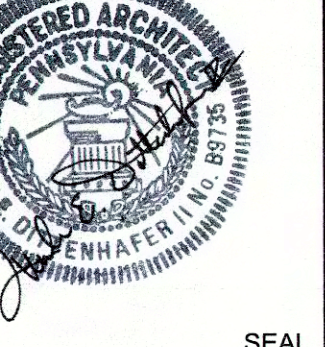
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410-528-2525 Voice 410-528-2074 Fax



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PROJECT NO. SU - 2010/6B

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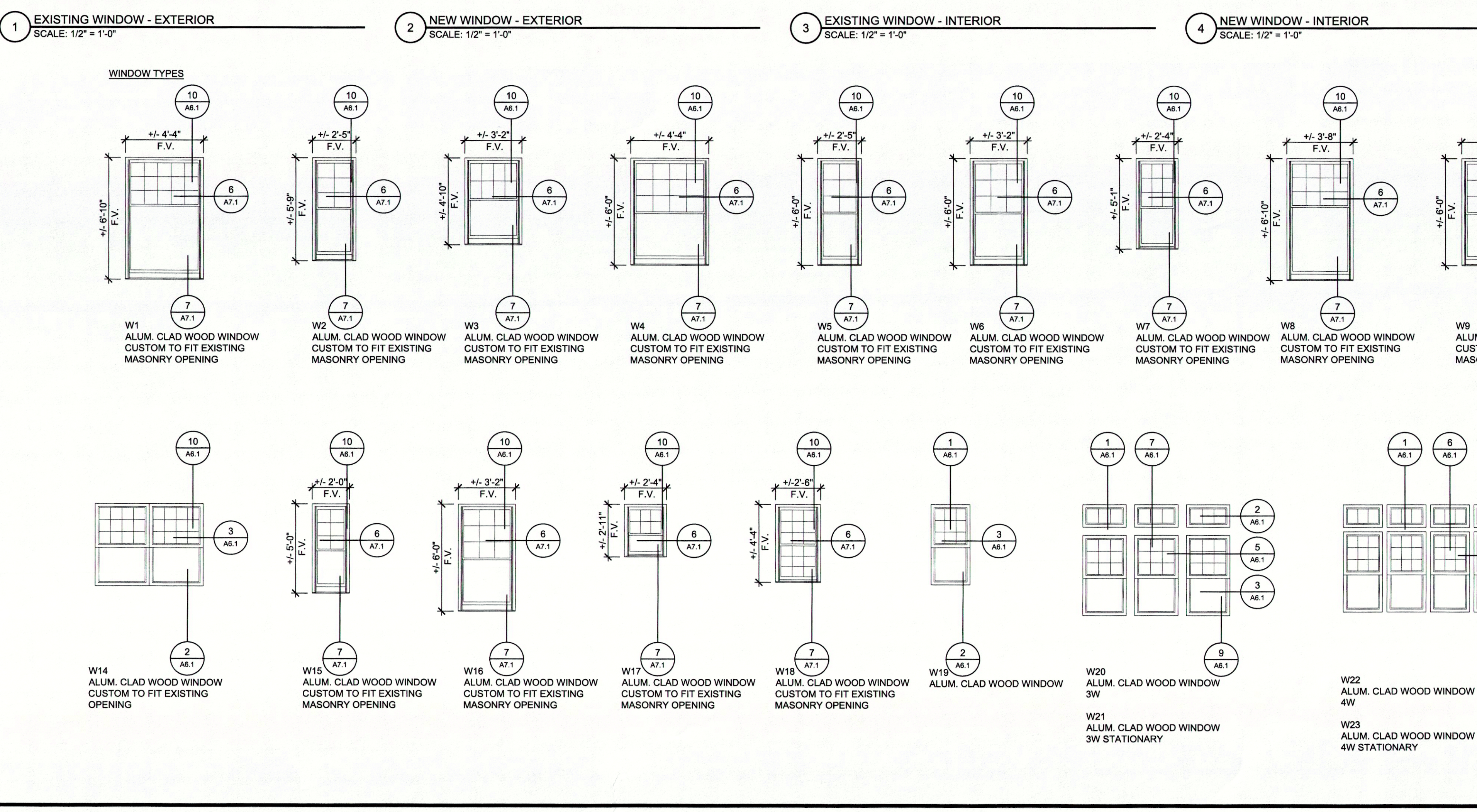
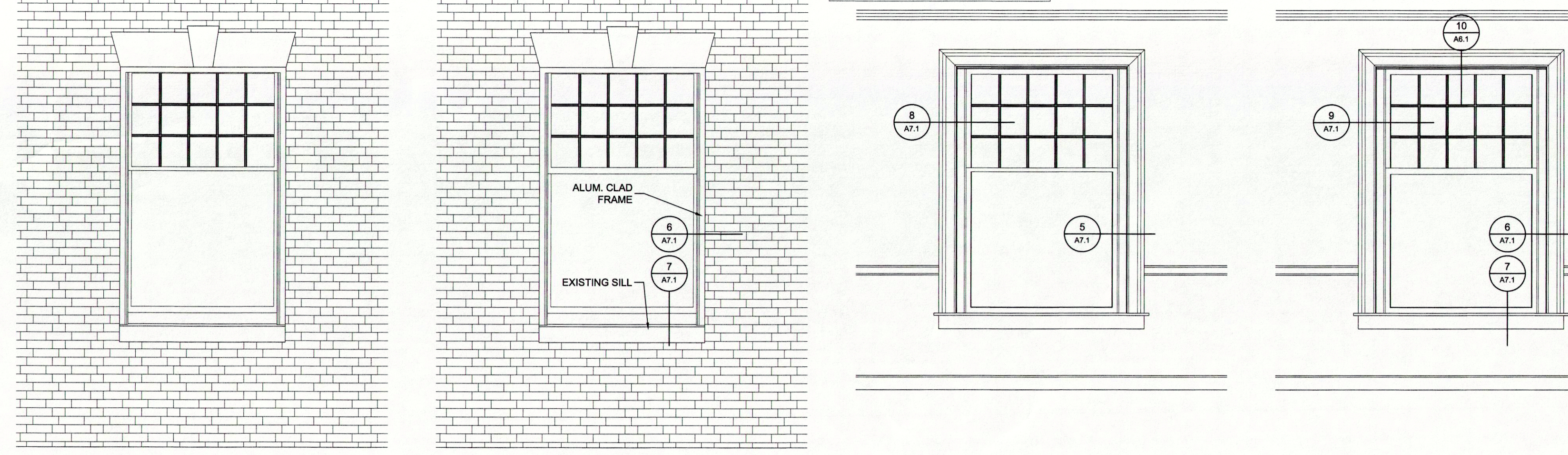
COMMONWEALTH OF PENNSYLVANIA
STATE SYSTEM OF HIGHER EDUCATION
HARRISBURG, PENNSYLVANIA

System Rep:
Professional:
Consultant:
Authorized by:

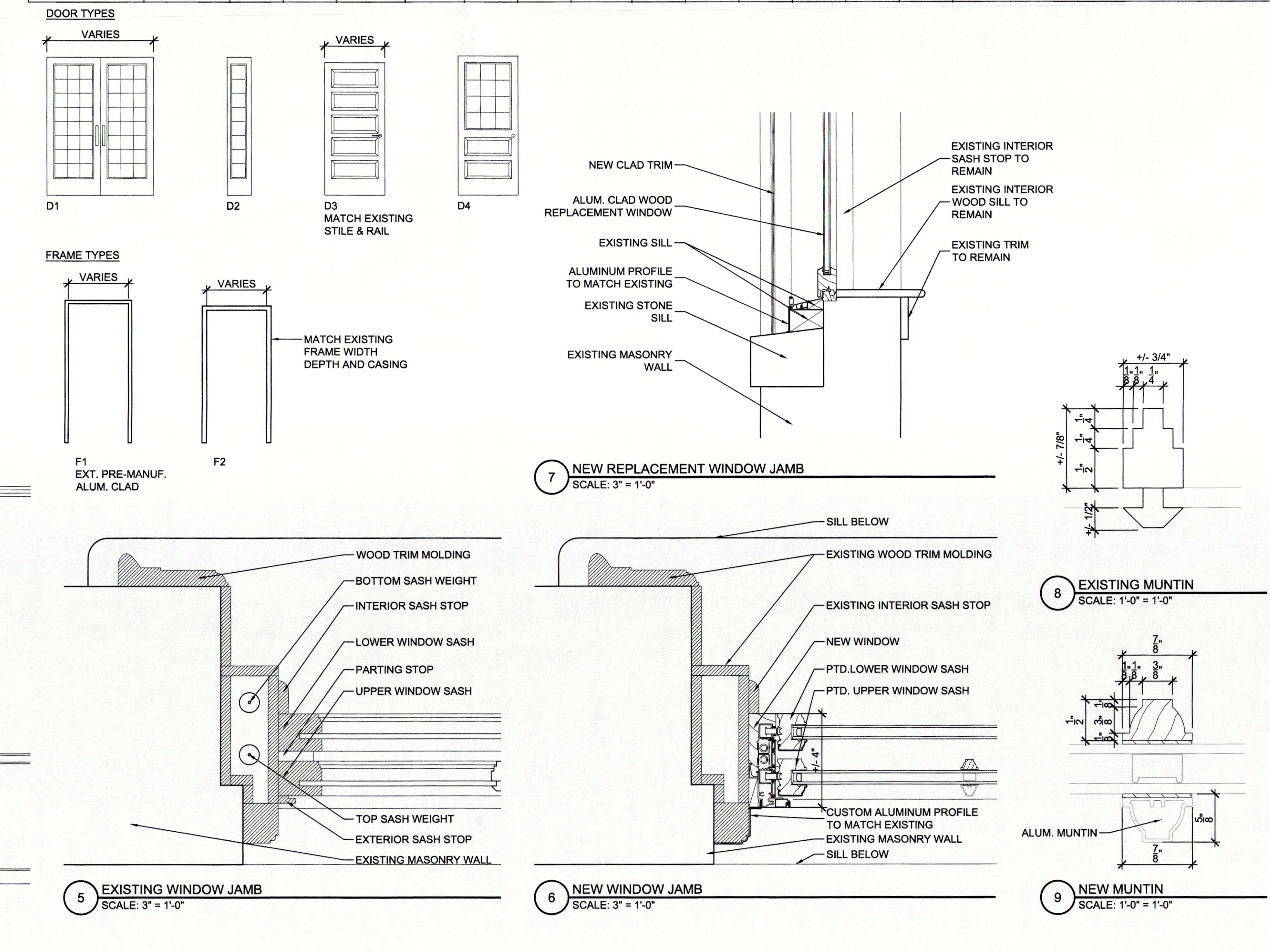
Project 10116 Date 05/09/14
Drawn by DLR Checked by TRG
Drawing Number
DETAILS & CASEWORK
A-6.2

ROOM FINISH SCHEDULE												
LEVEL	ROOM NUMBER	ROOM NAME	FLOOR MATERIAL	FLOOR FINISH	BASE MATERIAL	BASE FINISH	WALL	WALL - NORTH	WALL - EAST	WALL - SOUTH	WALL - WEST	NOTES
0-Basement	1	Basement/Storage	-	-	-	-	EXTG STONE	-	-	-	-	-
0-Basement	2	Storage	-	-	-	-	EXTG STONE	-	-	-	-	-
0-Basement	5	Boiler Room	-	-	-	-	EXTG STONE	-	-	-	-	-
0-Basement	6	Crawl Space	-	-	-	-	EXTG STONE	-	-	-	-	-
1-First Floor	103	Breakfast Room	VINYL	SV-1	WD	PT-1	EXTG PLASTER	WC-2 / WC-3*	WC-2 / WC-3*	WC-2 / WC-3*	WC-2 / WC-3*	*WC-2 ABOVE / WC-3 BELOW CHAIR RAIL (PT-19)
1-First Floor	104	ADA Powder Room	CERAMIC TILE	CT-1	WD	PT-1	EXTG PLASTER	WC-2 / WC-3*	WC-2 / WC-3*	WC-2 / WC-3*	WC-2 / WC-3*	-
1-First Floor	105	Hall	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-2	EXTG PLASTER	PT-2	EXTG PLASTER	-
1-First Floor	106	Kitchen	VINYL	SV-1	WD	PT-1	EXTG PLASTER	WC-1	EXTG PLASTER	WC-1	EXTG PLASTER	-
1-First Floor	107	Pantry	EXTG WD*	ST-1	WD	PT-1	EXTG PLASTER	WC-1	EXTG PLASTER	WC-1	EXTG PLASTER	*REMOVE EXTG SHEET VINYL TO EXPOSE WOOD
1-First Floor	108	Coat Closet	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-2	EXTG PLASTER	PT-2	EXTG PLASTER	-
1-First Floor	109	Dining Room	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-6 / PT-7**	EXTG PLASTER	PT-6 / PT-7**	EXTG PLASTER	**PT-6 ABOVE / PT-7 BELOW CHAIR RAIL
1-First Floor	110	Parlor / Family Rm	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-5	EXTG PLASTER	PT-5	EXTG PLASTER	-
1-First Floor	111	Corridor	EXTG WD*	ST-1	WD	PT-1	EXTG PLASTER	PT-2	EXTG PLASTER	PT-2	EXTG PLASTER	*NEW RUNNER CPT-2 ON STAIR / PT-1 ON WAINSCOT
1-First Floor	112	Living Room	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-3	EXTG PLASTER	PT-3	EXTG PLASTER	-
1-First Floor	113	Sunroom	EXTG/NEW WD	CPT-1	WD	PT-1	EXTG PLASTER	PT-4	EXTG PLASTER	PT-4	EXTG PLASTER	-
1-First Floor	115	Cater/Pantry	LINOLEUM	L-1	WD	PT-1	EXTG PLASTER	PT-10	EXTG PLASTER	PT-10	EXTG PLASTER	-
1-First Floor	116	Coat Closet	VINYL	SV-1	WD	PT-1	EXTG PLASTER	PT-8	EXTG PLASTER	PT-8	EXTG PLASTER	-
1-First Floor	117	Entry	VINYL	SV-1	WD	PT-1	EXTG PLASTER	PT-8 / PT-9*	EXTG PLASTER	PT-8 / PT-9*	EXTG PLASTER	*PT-8 ABOVE WAINSCOT / PT-9 CHAIR RAIL & WAINSCOT
2-Second Floor	202	Closet	LINOLEUM	L-2	WD	PT-1	EXTG PLASTER	PT-17	EXTG PLASTER	PT-17	EXTG PLASTER	-
2-Second Floor	203	Closet	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-15	EXTG PLASTER	PT-15	EXTG PLASTER	-
2-Second Floor	204	Bedroom	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-15	EXTG PLASTER	PT-15	EXTG PLASTER	-
2-Second Floor	205	Bedroom	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-14	EXTG PLASTER	PT-14	EXTG PLASTER	-
2-Second Floor	206	Closet	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-14	EXTG PLASTER	PT-14	EXTG PLASTER	-
2-Second Floor	207	Closet	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-15	EXTG PLASTER	PT-15	EXTG PLASTER	-
2-Second Floor	208	Bedroom	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-15	EXTG PLASTER	PT-15	EXTG PLASTER	-
2-Second Floor	210	Hall	EXTG WD*	ST-1	WD	PT-2	EXTG PLASTER	PT-2	EXTG PLASTER	PT-2	EXTG PLASTER	*NEW RUNNER ON STAIR / PT-1 ON WAINSCOT
2-Second Floor	213	Master Study	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-12	EXTG PLASTER	PT-12	EXTG PLASTER	-
2-Second Floor	216	Master Bedroom	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-11	EXTG PLASTER	PT-11	EXTG PLASTER	-
2-Second Floor	217	Master Bath	CERAMIC TILE	CT-2	WD	PT-1	EXTG PLASTER	PT-13	EXTG PLASTER	PT-13	EXTG PLASTER	-
2-Second Floor	218	Linon	CERAMIC TILE	CT-2	WD	PT-1	EXTG PLASTER	PT-13	EXTG PLASTER	PT-13	EXTG PLASTER	-
2-Second Floor	219	Shared Bath	CERAMIC TILE	CT-3	WD	PT-1	EXTG PLASTER	PT-16	EXTG PLASTER	PT-16	EXTG PLASTER	-
2-Second Floor	220	Walk-In Closet	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-11	EXTG PLASTER	PT-11	EXTG PLASTER	-
2-Second Floor	222	Laundry	LINOLEUM	L-2	WD	PT-1	EXTG PLASTER	PT-17	EXTG PLASTER	PT-17	EXTG PLASTER	-
2-Second Floor	223	Closet	LINOLEUM	L-2	WD	PT-1	EXTG PLASTER	PT-17	EXTG PLASTER	PT-17	EXTG PLASTER	-
3-Third Floor	301	Storage	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-8	EXTG PLASTER	PT-8	EXTG PLASTER	-
3-Third Floor	302	Cedar Closet	EXTG WD	ST-1	WD	-	EXTG WD	-	EXTG WD	-	EXTG WD	-
3-Third Floor	303	Hall	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-2	EXTG PLASTER	PT-2	EXTG PLASTER	-
3-Third Floor	305	Guest Bedroom	NEW WD	ST-1	WD	PT-1	EXTG PLASTER	PT-8	EXTG PLASTER	PT-8	EXTG PLASTER	-
3-Third Floor	306	Guest Bathroom	TILE	CT-4	WD	PT-1	EXTG PLASTER	PT-18	EXTG PLASTER	PT-18	EXTG PLASTER	-
3-Third Floor	307	Storage	EXTG WD	ST-1	WD	PT-1	EXTG PLASTER	PT-8	EXTG PLASTER	PT-8	EXTG PLASTER	-

LEGEND												
CPT	= CARPET	DEDUCT ALTERNATE NO. 3:										
CT	= CERAMIC TILE	THE AMOUNT TO BE DEDUCTED FROM THE CONTRACT AMOUNT ASSOCIATE WITH WALL AND TRIM SURFACE PREPARATIONS, PRIMING AND PAINTING OF WALLS, TRIMS, WINDOWS AND ALL OTHER MISCELLANEOUS CURRENTLY PAINTED ITEMS. (THIS PAINTING WORK WOULD BE CARRIED OUT BY THE OWNER AND COORDINATED WITH THE GENERAL CONTRACTOR.)										
EXTG	= EXISTING	PREPARATION, PRIMING AND PAINTING OF ALL CEILING IS TO BE INCLUDED IN THE BASE BID AMOUNT.										
GYP.BD	= GYPSUM WALL BOARD	NOTE: GENERAL CONTRACTOR IS RESPONSIBLE TO MAKE WALLS PAINT READY FOR OWNER IF ALTERNATE NO. 3 IS APPROVED.										
L	= LINOLEUM											
PT	= PAINT											
ST	= STAIN											
SV	= SHEET VINYL											
WC	= WALLCOVERING											
WD	= WOOD											



DOOR AND FRAME SCHEDULE													
LEVEL	NUMBER	SIZE			MATERIAL	TYPE	DOOR FINISH			FRAME			NOTES
		WD	HGT	THK			MATERIAL	TYPE	HEAD	JAMB	SILL		
1-First Floor	103	6'-0"	7'-0"	0'-1 3/4"	CLAD WD	D1	PTD	CLAD WD	F1	16/A6.1	15/A6.1	HARDWARE BY MANUFACTURER	
1-First Floor	104	EX	EX	EX	EX	EX	EX	EX	EX	12/A6.0	11/A6.1	INSTALL STAINED WOOD THRESHOLD/ REUSE SALVAGED DOOR AND HARDWARE	
1-First Floor	106	3'-0"	6'-8"	0'-1 3/4"	WD	D3	PTD	WD	F2	12/A6.1	11/A6.2	SEE SPECS FOR HARDWARE SETS	
1-First Floor	113A	6'-0"	7'-0"	0'-1 3/4"	WD	D1	PTD	CLAD WD	F1	16/A6.1	15/A6.1	HARDWARE BY MANUFACTURER	
1-First Floor	113A1-2	1'-0"	7'-0"	-	-	D2	PTD	CLAD WD	F1	16/A6.1	15/A6.1	SEE SPECS FOR HARDWARE SETS	
1-First Floor	113B	6'-0"	7'-0"	0'-1 3/4"	WD	D1	PTD	CLAD WD	F1	16/A6.1	15/A6.1	HARDWARE BY MANUFACTURER	
1-First Floor	113B1-2	1'-0"	7'-0"	-	-	D2	PTD	CLAD WD	F1	16/A6.1	15/A6.1	SEE SPECS FOR HARDWARE SETS	
1-First Floor	115A	3'-0"	6'-8"	0'-1 3/4"	WD	D3	PTD	WD	F2	12/A6.1	11/A6.2	SEE SPECS FOR HARDWARE SETS	
1-First Floor	115B	3'-0"	7'-0"	0'-1 3/4"	WD	D4	PTD	WD	F1	13/A6.1	14/A6.1	SEE SPECS FOR HARDWARE SETS	
1-First Floor	116	5'-2"	6'-8"	0'-1 3/4"	WD	D3	PTD	WD	F1	12/A6.1	11/A6.2	SEE SPECS FOR HARDWARE SETS	
1-First Floor	117A	3'-0"	7'-0"	0'-1 3/4"	WD	D4	PTD	WD	F2	13/A6.1	14/A6.1	SEE SPECS FOR HARDWARE SETS/GASKET	
1-First Floor	117B	3'-0"	7'-0"	0'-1 3/4"	WD	D4	PTD	WD	F2	13/A6.1	14/A6.1	SEE SPECS FOR HARDWARE SETS/GASKET	
1-First Floor	117C	3'-0"	7'-0"	0'-1 3/4"	WD	D3	PTD	WD	F2	13/A6.1	14/A6.1	SEE SPECS FOR HW SET/1-HOUR FIRE/GASKET	
2-Second Floor	210	+/- 3'-0"	+/- 7'-0"	+/- 0'-1 3/4"	WD	D4	PTD	WD	F2	13/A6.1	14/A6.1	FIELD VERIFY TO MATCH EXISTING OPENING	
2-Second Floor	213A	EX	EX	EX	EX	EX	EX	EX	EX	12/A6.1	11/A6.2	REUSE SALVAGED DOOR & HARDWARE	
2-Second Floor	213B	EX	EX	EX	EX	EX	EX	EX	EX	12/A6.1	11/A6.2	REUSE SALVAGED DOOR & HARDWARE	
2-Second Floor	220	EX	EX	EX	EX	EX	EX	EX	EX	12/A6.1	11/A6.2	REUSE SALVAGED DOOR & HARDWARE	
2-Second Floor	223	(2) 1'-6"	6'-8"	0'-1 3/4"	WD	D3	PTD	WD	F2	12/A6.1	11/A6.2	SEE SPECS FOR HARDWARE SETS/GASKET	
3-Third Floor	306	EX	EX	EX	EX	EX	EX	EX	EX	12/A6.1	11/A6.2	REUSE SALVAGED DOOR & HARDWARE	

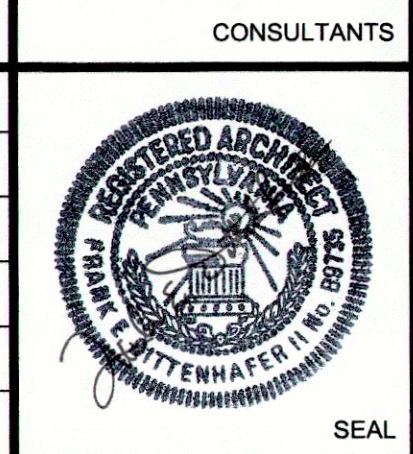


PROJECT NO. SU - 2010/6B

Rev	Description	By	Date
100% CONSTRUCTION DOCUMENTS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:		Drawing Number	
Professional:		SCHEDULES	
Consultant:		A-7.1	
Authorized by:			

RENOVATIONS AND ADDITIONS TO
 MARTIN HOUSE
 SHIPPENSBURG, PENNSYLVANIA 17257

Murphy & Dittenhafer
 ARCHITECTS
 805 North Cheshire Street, Baltimore, Maryland 21201
 410-527-8223 Voice 410-527-2474 Fax



Project: 10116 Date: 05/09/14
 Drawn by: DLR Checked by: TRG
 Drawing Number: SCHEDULES
 A-7.1

STRUCTURAL NOTES:

GENERAL

- STRUCTURAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. FOR INCONSISTENCIES BETWEEN STRUCTURAL DRAWINGS, THE SPECIFICATIONS, AND ANY CODE OF STANDARD PRACTICE, THE STRICTER REQUIREMENT SHALL APPLY, AND THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED WITH OTHER CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, M/E/P, AND SITE DOCUMENTS. COORDINATE WITH THESE DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHANGES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, ETC., NOT INDICATED ON THE STRUCTURAL DOCUMENTS. ALL DIMENSIONS AND CONDITIONS, EXISTING AND NEW, SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING, SHORING, TEMPORARY BRACING, GUTS, AND TIEDOWNS. THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING NECESSARY TO PROTECT EXISTING AND ADJACENT STRUCTURES.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS THAT DO NOT HAVE A SPECIFIC SECTION INDICATED, AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OSHA.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE SPECIFIED DESIGN LIVE LOADS. CONCRETE SLABS AND TOPPING SHALL NOT BE LOADED UNTIL THE CONCRETE HAS REACHED AT LEAST 75% OF THE SPECIFIED DESIGN COMPRESSIVE STRENGTH.
- THE CONTRACTOR'S CONSTRUCTION SEQUENCES SHALL ALLOW FOR THE EFFECTS OF THERMAL MOVEMENTS DURING THE CONSTRUCTION PERIOD, PRIOR TO THE BUILDING BEING ENGAGED AND TEMPERATURE CONTROLLED. NEGATIVE EFFECTS OF SUCH THERMAL MOVEMENTS, SUCH AS MATERIAL CRACKING, FROST HEAVE, ETC., SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO THE CONTRARY IN THE CONTRACT DOCUMENTS, THE TRADE PRACTICES THAT ARE DEFINED IN ANY CODE OF STANDARD PRACTICE SHALL GOVERN.
- DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS, LOCATIONS, OR SIZES OF ANY ELEMENT.

EXISTING CONDITIONS

- EXISTING CONDITIONS INDICATED ARE OBTAINED FROM AVAILABLE SOURCES (EXISTING DRAWINGS, FIELD SURVEYS, ETC.) AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. CONTRACTOR(S) SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION OF EXISTING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE DEMOLITION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING DEMOLITION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY SHORING AND BRACING NECESSARY TO SUPPORT AND PREVENT DAMAGE TO REMAINING CONSTRUCTION.

STRUCTURAL DESIGN CRITERIA

- DESIGN LOADS ARE IN ACCORDANCE WITH THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC) INCLUDING LOCAL CODES, WHERE APPLICABLE, AND THE FOLLOWING STANDARDS REFERENCED IN IBC, 2009:
 ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 ACI 530 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
 ACI 530.1 - SPECIFICATIONS FOR MASONRY STRUCTURES
 AFPA NDS - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
 ASCE 7 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 THE OVERLAP OF THE OUTERMOST CROSSINGS OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS-WIRES PLUS TWO IN. UNO.
 PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE TENSION SPLICE CLAS "B" UNO.
 DONELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPLICES.
- IBC BUILDING OCCUPANCY CATEGORY.
- LIVE LOADS ARE AS FOLLOWS. LIVE LOAD REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE, UNO.
 ROOF LIVE LOAD 30 PSF
 ASSEMBLY AREAS 100 PSF
 RESIDENTIAL LIVING AREAS 40 PSF
 RESIDENTIAL SLEEPING AREAS 30 PSF
- SNOW LOADING IS BASED ON THE FOLLOWING. DRIFTING OR SLIDING SNOW LOADS HAVE BEEN CONSIDERED WHERE APPROPRIATE.
 RAIN ON SNOW SURCHARGE N/A (Pg > 20 PSF)
 GROUND SNOW LOAD, Pg 30 PSF
 FLAT-ROOF SNOW LOAD, Pf 21 PSF
 SNOW EXPOSURE FACTOR, Ce 1.0
 SNOW THERMAL FACTOR, Ct 1.0
 SNOW LOAD IMPORTANCE FACTOR, I 1.0
- WIND LOADING IS BASED ON THE FOLLOWING:
 BASIC WIND SPEED (3 SEC GUST) 90 MPH
 EXPOSURE CATEGORY B
 IMPORTANCE FACTOR 1.0
 BUILDING CATEGORY: SIMPLE DIAPHRAGM, LOW-RISE, ENCLOSED, R161D
 INTERNAL PRESSURE COEFF. ±0.18
 COMPONENTS & CLADDING
 WALLS +16.3, -18.1 PSF
 MALL CORNERS +16.2, -14.0 PSF
 ROOF ZONE 1 +8.3, -20.4 PSF
 ROOF ZONE 2 +8.3, -34.2 PSF
 ROOF ZONE 3 +8.3, -51.5 PSF
- LATERAL EARTH PRESSURES ON RETAINING AND BASEMENT WALLS ARE BASED ON THE FOLLOWING: [PRESUMPTIVE LOADING]
 EQUIVALENT AT-REST FLUID PRESSURE (BASEMENT) 65 PCF
 EQUIVALENT ACTIVE FLUID PRESSURE (CANTILEVERED) 45 PCF
 EQUIVALENT PASSIVE FLUID PRESSURE 300 PCF
 COEFFICIENT OF FRICTION 0.30

TYPICAL DETAILS

- TYPICAL DETAILS APPLY AT ALL APPROPRIATE LOCATIONS.
- TYPICAL DETAILS ARE GENERALLY NOT CUT ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TYPICAL DETAIL APPLICATIONS.

FOUNDATIONS

- FOUNDATIONS HAVE BEEN DESIGNED BASED UPON A PRESUMPTIVE BEARING CAPACITY.
- SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL HAVING A MINIMUM SAFE BEARING CAPACITY OF 2 KSF.
- THE BOTTOMS OF EXTERIOR FOOTINGS SHALL BE 36 IN. MINIMUM BELOW FINISHED GRADE.
- EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION.
- ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER JOINT.
- FOUNDATION CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:
 SPREAD FOOTINGS 3000 PSI
 WALLS & PIERS 4000 PSI
 SLAB-ON-GRADE (INTERIOR) 3500 PSI
 SLAB-ON-GRADE (EXTERIOR) 4500 PSI, 0.45 W/G MAX.
- PROVIDE AIR-ENTRAIMENT IN ALL CONCRETE EXPOSED TO FREEZE-THAW CONDITIONS DURING THE CONSTRUCTION PERIOD AND/OR IN THE COMPLETED STRUCTURE.
- VERTICAL CRACK CONTROL AND/OR CONSTRUCTION JOINTS IN CONCRETE WALLS SHALL BE PROVIDED AT 30 FT. O/C MAX. CONSTRUCTION JOINTS SHALL BE PROVIDED AT 40 FT. O/C MAX.

FOUNDATION SUBGRADE PREPARATION REQUIREMENTS

- A GEOTECHNICAL ENGINEER, LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, SHALL OBSERVE, REVIEW, AND APPROVE ALL WORK RELATED TO EXCAVATION, BACKFILL, COMPACTION, SUBGRADE AND SUBBASE PREPARATION, AND MATERIAL SELECTION.
- THE BUILDING SITE SHALL BE STRIPPED OF ANY TOPSOIL, ORGANIC MATTER, VEGETATION FILL MATERIALS, AND OTHERWISE UNSUITABLE OR SOFT SUBGRADE MATERIALS.
- UNUSABLE MATERIALS SHALL BE EXCAVATED DOWN TO RESIDUAL SOIL ELEVATIONS.
- SOIL BEARING ELEVATIONS SHALL BE VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO BACKFILLING EXCAVATIONS OR CONSTRUCTING FOUNDATIONS.
- WHERE ROCK IS ENCOUNTERED WITHIN 2 FEET OF FOUNDATION BEARING ELEVATION (SUBGRADE SHALL BE PROBED TO DETERMINE THIS), UNDERCUT ROCK BY 2 FEET MIN. BELOW BEARING ELEVATION AND REPLACE WITH COMPACTED STRUCTURAL FILL.
- AT SLAB-ON-GRADE AREAS, FOLLOWING STRIPPING, THE SUBGRADES SHALL BE PROFFERED WITH A LOADED TANDEM AXLE DUMP TRUCK OR TEN-TON ROLLER UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER. AREAS WHICH EXHIBIT EXCESSIVE PUMPING OR HEAVING, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, SHALL BE REMOVED AND REPLACED WITH NEON COMPACTED STRUCTURAL FILL.
- COMPACTED FILL SHALL BE USED TO RAISE EXISTING GRADES TO THE PROPOSED NEW ELEVATION, WHERE REQUIRED.
- UNDER-SLAB DRAINS, CONSISTING OF A 4-INCH WASHED GRAVEL OR CRUSHED STONE STONE DRAINAGE LAYER (CORRESPONDING TO PA DOT 2A), SHALL BE USED BENEATH THE CONCRETE SLAB-ON-GRADE.

CONCRETE REINFORCING

- REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318.
- CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
 DEFORMED BARS ASTM A615, GRADE 60
 DEFORMED BARS (WELDABLE) ASTM A106
 HELPED WIRE FABRIC ASTM A185
- LAP DEFORMED BARS 40 DIA., UNO. PROVIDE CORNER AND L BARS AT CORNERS AND INTERSECTIONS. REINFORCING INDICATED AS CONTINUOUS SHALL BE LAPPED. HOOKS SHALL BE STANDARD HOOKS, UNO. LAP HELPED WIRE FABRIC SUCH THAT THE OVERLAP OF THE OUTERMOST CROSSINGS OF EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS-WIRES PLUS TWO IN. UNO.
 PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE TENSION SPLICE CLASS "B" UNO.
 DONELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH TENSION SPLICES.
- CONCRETE PROTECTION FOR REINFORCEMENT:
 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER: 3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 NO. 6 THROUGH NO. 18 BARS: 2 IN.
 NO. 5 BAR AND SMALLER: 1-1/2 IN.
 CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 SLABS, WALLS, JOISTS: 1-1/2 IN.
 NO. 14 AND NO. 18 BARS 1-1/2 IN.
 NO. 11 BAR AND SMALLER: 3/4 IN.
 BEAMS, COLUMNS, PIERS: 1-1/2 IN.
- REINFORCING FOR SLABS ON GRADE, WHERE NOT OTHERWISE SPECIFIED, SHALL BE AS FOLLOWS:
 REINFORCING BARS: SEE FOUNDATION AND TYPICAL DETAILS. AT SLAB BLOCKOUT AND RE-ENTRANT CORNERS, PROVIDE 2#S X 4'-0" DIAGONALS.
 WIRE MESH: 6x6-M2.9 x M2.9 W/MF. REINFORCING SHALL BE SUPPORTED AT MID-DEPTH OF SLAB.
- WELDING, WELDING ELECTRODES AND FLUXES SHALL CONFORM TO AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCED STEEL". ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 10 KSI. ASTM A106 BARS OR DBA'S SHALL BE USED IN ALL HELPED APPLICATIONS.
- DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL SP-66, AND WITH ACI 318, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

DRILLED ANCHORS

- EXPANSION ANCHORS SHALL BE (UNO):
 HILTI HOK BOLT III, OR EQUIVALENT
 3/4-INCH DIAMETER
 SUFFICIENT LENGTH TO PROVIDE 6-INCH MINIMUM EMBEDMENT
- CHEMICAL ADHESIVE ANCHORS SHALL BE (UNO):
 HILTI RE-500 SYSTEM, OR EQUIVALENT
 3/4-INCH DIAMETER
 SUFFICIENT LENGTH TO PROVIDE 1-INCH MINIMUM EMBEDMENT
- GROUT CMU COURSES CONT ANCHORS FOR 8" MIN ABOVE & BELOW ANCHOR LINES.
- ANCHORS IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALV.

CONCRETE SLABS ON GRADE

- GEOTECHNICAL ENGINEER SHALL OBSERVE AND APPROVE SUBGRADE BEFORE CONCRETE PLACEMENT.
- DO NOT PLACE CONCRETE SLABS ON FROZEN GROUND.
- CONTROL JOINTS ARE REQUIRED IN CONCRETE SLABS. REFER TO PLANS AND TYPICAL DETAILS FOR JOINT CONSTRUCTION AND LOCATIONS.
- INSTALL (2) #4 x 5'-0" LONG BARS DIAGONALLY AT RE-ENTRANT CORNERS AND OPENINGS.
- COORDINATE LOCATIONS AND DIMENSIONS OF RECESSED SLABS.

CONCRETE MASONRY

- CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530 AND 530.1.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY, F'M, SHALL BE 1500 PSI. (MIN NET AREA COMPRESSIVE STRENGTH OF UNIT = 1400 PSI.)
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90.
- CONCRETE MASONRY REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. DEFORMED BAR ANCHORS (DBA) SHALL CONFORM TO ASTM A496. DBA'S SHALL BE HELPED BY AUTOMATIC EQUIPMENT.
- GROUT SHALL CONFORM TO THE PROPORTIONAL REQUIREMENTS OF ASTM C476. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR SIZE OF VOID SPACE BEING FILLED. GROUT SHALL HAVE A MINIMUM SLOPE OF 8 INCHES PROVIDED BY SUFFICIENT WATER CONTENT. ADMIXTURES ARE NOT PERMITTED IN GROUT.
- MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S, PCL OR MORTAR CEMENT. USE OF MASONRY CEMENT IS NOT PERMITTED.
- REINFORCED VOIDS, AND NON-REINFORCED VOIDS SPECIFIED TO BE GROUTED, IN CONCRETE MASONRY SHALL BE FILLED SOLID WITH GROUT IN 5 FT. MAXIMUM LIFTS STOP POURS 1-1/2 INCHES BELOW THE BED JOINT TO FORM A KEY AT FOUR JOINTS.
- REINFORCING BARS SHALL BE FULLY ENCASED IN GROUT.
- REINFORCING BARS SHALL BE TIED TO DONELS AND HELD IN THE PROPER POSITION BY MECHANICAL BAR POSITIONERS DESIGNED FOR THAT PURPOSE.
- REINFORCING SHALL NOT BE PLUNGED INTO NET GROUT.
- LAP UNCOATED, DEFORMED BARS AS FOLLOWS:
 BAR SIZE LAP LENGTH
 UP TO #4 22 INCHES
 #5 26 INCHES
 #6 40 INCHES
 #7 48 INCHES
- INCREASE SPECIFIED LAP LENGTHS 50% FOR EPOXY-COATED BARS.
- CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND, UNO. PILASTER SHALL BE BONDED, UNO.
- LOAD BEARING CMU SHALL HAVE FULL MORTAR BED JOINTS.
- PROVIDE LADDER-TYPE, HORIZONTAL JOINT REINFORCEMENT AS FOLLOWS:
 TYPICAL: 16 IN C/C MAX, UNO.
 AT BELOW GRADE WALLS: PROVIDE AT 8 IN. C/C.
 AT PARAPETS: PROVIDE AT 8 IN. C/C.
 AT WALL OPENINGS: PROVIDE ADD'L REINF. NOT MORE THAN 8 IN. ABOVE AND BELOW OPENING.
 TERMINATE 2 FT. BEYOND OPENING.
- PROVIDE CONTINUITY AT INTERSECTIONS AND CORNERS USING PREFABRICATED T-SHAPED AND L-SHAPED UNITS, AND LAP ALL CONSECUTIVE SECTIONS OF TRUSS TYPE REINFORCING A MINIMUM OF 8".
- PROVIDE VERTICAL CONTROL JOINTS IN WALLS AT 24 FT. O/C MAX, UNO.
- ALL CMU WALLS SHALL BE DOWELED TO SUPPORTING SLABS WITH MINIMUM #4 @ 8" HOOKED DONELS, UNO. ALL CMU WALLS SUPPORTED DIRECTLY ON STEEL MEMBERS SHALL BE ANCHORED WITH 1/2" DIAMETER X 4" STUDS AT 32' O/C, OR WITH #4 X 2'-0" DBA'S AT 48' O/C, UNO.
- THE TOPS OF ALL NON-LOAD BEARING CMU WALLS SHALL BE BRACED ACCORDING TO SPECIFIC SECTIONS AND / OR TYPICAL DETAILS.

WOOD

- STRUCTURAL LUMBER SHALL CONFORM TO AFPA'S NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."
- STRUCTURAL LUMBER SHALL BE NO. 2 S-P-F, VISUALLY GRADED, OR BETTER.
- LAMINATED VENEER LUMBER (LVL) SHALL BE AS MANUFACTURED BY LEVEL, OR EQUIVALENT. LVL'S SHALL NOT BE EXPOSED TO THE ENVIRONMENT IN THE COMPLETED STRUCTURE.
- PARALLEL STRAND LUMBER (PSL) SHALL BE AS MANUFACTURED BY LEVEL, OR EQUIVALENT. PSL'S EXPOSED TO THE ENVIRONMENT SHALL BE KILN-DRIED.
- PLYWOOD SHALL CONFORM TO APA'S "PANEL DESIGN SPECIFICATION", PD5-04, AND DOC'S PS 1, "CONSTRUCTION AND INDUSTRIAL PLYWOOD". ALL JOINTS SHALL BE STAGGERED. PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION ACROSS SUPPORTS. NAILING SHALL COMPLY WITH MINIMUM APA REQUIREMENTS FOR PLYWOOD FLOOR/ROOF DIAPHRAGMS, AND IBC FASTENING SCHEDULE.
- PLYWOOD ROOF SHEATHING SHALL BE APA STRUCTURAL I RATED SHEATHING, EXPOSURE I, THICKNESS AS INDICATED. PROVIDE PANEL CLIPS AT UNSUPPORTED EDGES.
- PLYWOOD WALL SHEATHING SHALL BE APA RATED SHEATHING, TYPE CDX, EXPOSURE I.
- ROOF SHEATHING SHALL BE INSTALLED ON MAIN ROOF MEMBERS PRIOR TO THE INSTALLATION OF OVERFRAMING MEMBERS.
- PLYWOOD SUB-FLOORING SHALL BE APA RATED STURD-I-FLOOR, EXPOSURE I, THICKNESS AS INDICATED, WITH TONGUE AND GROOVE EDGES. FIELD-GLUE USING ADHESIVES MEETING APA SPECIFICATION AF6-01.
- CONNECTIONS SHALL BE MADE USING PREFABRICATED CONNECTORS. CONNECTOR SIZE AND CAPACITY SHALL MATCH MEMBER SIZE AND CAPACITY. TOE-NAILING IS NOT PERMITTED.
- MINIMUM FASTENING SHALL CONFORM TO IBC TABLE 2304.4.1, "FASTENING SCHEDULE".
- HEADERS AT NON LOAD BEARING CONDITIONS SHALL BE AS FOLLOWS:
 2X4 WALLS:
 OPENINGS UP TO 9'-0" (2) 2X8 + 1/2" PLYWOOD
 2X6 WALLS:
 OPENINGS UP TO 9'-0" (3) 2X8 + 1/2" PLYWOOD (2 LAYERS)
- PROVIDE CONTINUOUS SOLID BLOCKING OR CROSS-BRIDGING LINES AT 8'-0" O/C MAX., ONE LINE MINIMUM. PROVIDE ADDITIONAL BRIDGING FOR MANUFACTURED WOOD PRODUCTS (JOISTS, TRUSSES, ETC.) AS SPECIFIED BY MANUFACTURER.
- PRESERVATIVE TREATED LUMBER SHALL BE PROVIDED WHERE WOOD IS IN CONTACT WITH CONCRETE OR MASONRY, OR EXPOSED TO THE WEATHER.
- ALL FASTENERS AND PREFABRICATED CONNECTORS USED WITH PRESERVATIVE TREATED WOOD SHALL HAVE A HOT-DIP GALVANIZING 6105 COATING ACCORDING TO ASTM A153 AND A123. (TYPE A304 OR 306 STAINLESS STEEL FASTENERS AND CONNECTORS)
- PROVIDE A SUFFICIENT NUMBER OF STUDS TO ACHIEVE FULL BEARING WIDTH FOR ALL BEAMS, TRUSS GIRTERS, AND POINT LOADS. MULTIPLE STUDS SHALL BE WALL LAMINATED TOGETHER.
- ANCHOR BOLTS SHALL BE SPACED AT 4'-0" O/C, UNO AND 4" TO 12" MAX FROM ENDS OF WALLS WITH 2 BOLTS PER SILL BOARD.

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 Haddon Heights, New Jersey
 Centerville, Maryland PROJECT NO. L8154

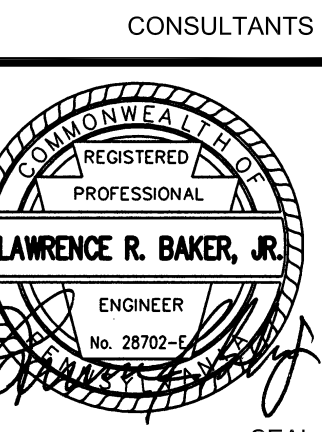


Shippensburg University

PROJECT NO. SU - 2010/6B

RENOVATIONS AND ADDITIONS TO
 MARTIN HOUSE
 SHIPPENSBURG, PENNSYLVANIA 17257

Murphy & Dittenhafer
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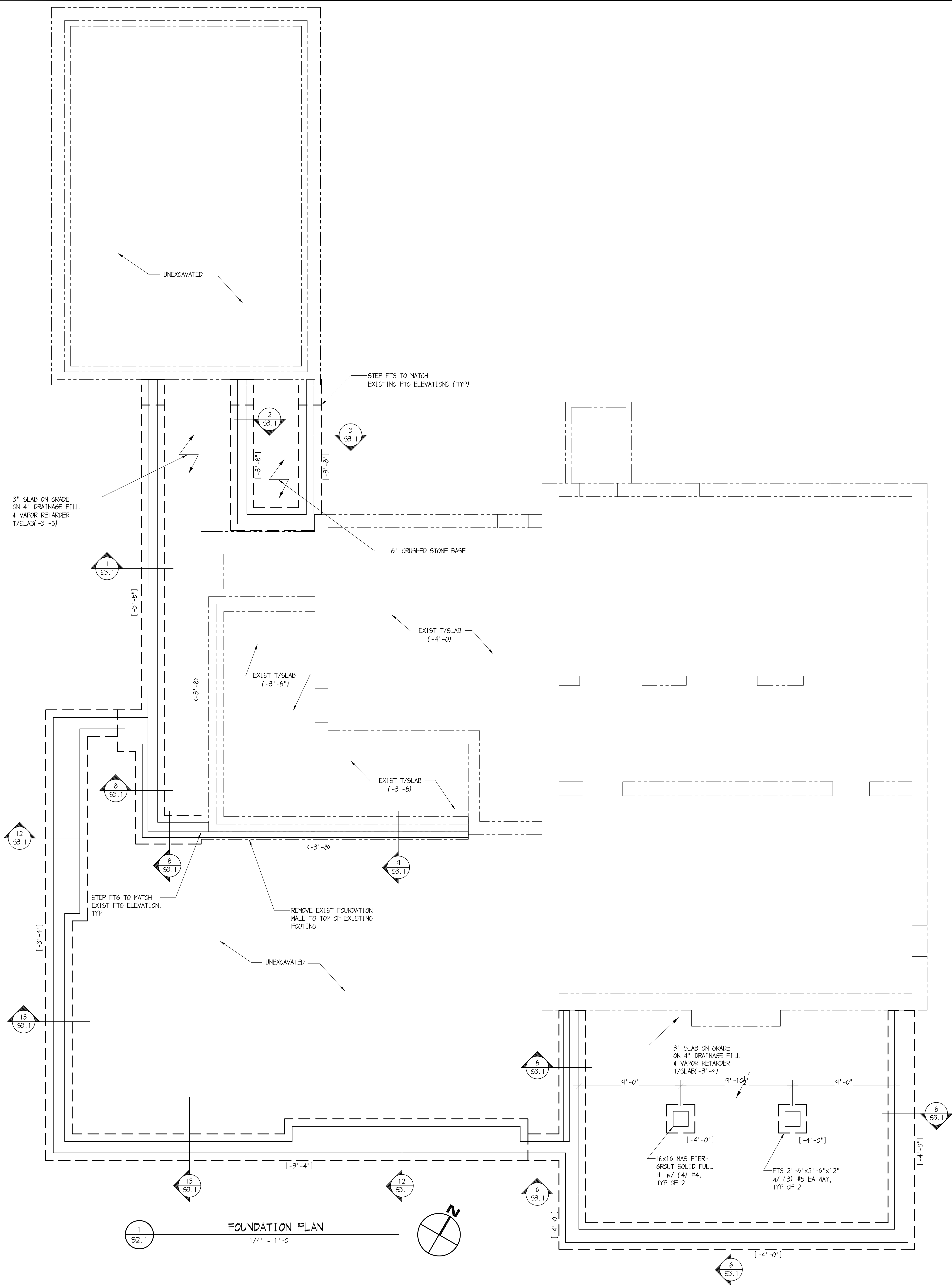
100% CONSTRUCTION DOCUMENTS

COMMONWEALTH OF PENNSYLVANIA
 STATE SYSTEM OF HIGHER EDUCATION
 HARRISBURG, PENNSYLVANIA

Project 10116	Date 5/28/14
Drawn by BRK	Checked by LRB

System Rep:
 Professional:
 Consultant:
 Authorized by:

Drawing Number
STRUCTURAL NOTES
S1.1



- FOUNDATION / FIRST FLOOR PLAN NOTES**
1. FIRST FLOOR IS REFERENCE ELEVATION (0'-0") = DATUM ELEV. OF ##.##".
 2. ELEVATIONS NOTED AS FOLLOWS ARE WITH RESPECT TO REFERENCE ELEV (0'-0").
 [-#'-#"] INDICATES TOP OF FOOTING
 (-#'-#") INDICATES TOP OF PIER
 <#'-#") INDICATES TOP OF EXISTING FTG.
 3. FOUNDATION MEMBERS SHALL BE AT THE FOLLOWING ELEVATIONS, UNO:
 PIERS [-0'-8"]
 FOUNDATION MEMBERS ARE DESIGNATED AS FOLLOWS:
 FH # FOOTING MARK - SEE SCHEDULE.
 PH PIER MARK - SEE FOUNDATION DETAILS.
 BP# COLUMN BASE PLATE - SEE FOUNDATION SECTIONS.
 4. FOUNDATION MEMBERS ARE DESIGNATED AS FOLLOWS:
 FH # FOOTING MARK - SEE SCHEDULE.
 PH PIER MARK - SEE FOUNDATION DETAILS.
 BP# COLUMN BASE PLATE - SEE FOUNDATION SECTIONS.
 5. COORDINATE WITH ARCH, MECH, ELEC, AND PLUMB DRAWINGS FOR FLOOR SLOPES, DRAINS, OPENINGS, DEPRESSIONS, ETC., NOT SHOWN ON THIS PLAN, AT ALL TOILETS AND OTHER ROOMS.
 6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
 7. EXISTING CONSTRUCTION SHOWN THUS -----, TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.
 8. UNDER SLAB PLUMBING SHOWN THUS ----- . SEE TYP DETAILS FOR STEPPED FOOTINGS @ PLUMBING LINES.
 9. BOTTOM OF FOOTINGS SHALL MATCH ADJACENT BOTTOM OF EXISTING FOOTINGS. STEP FOOTINGS AS REQUIRED.
 10. PROVIDE (2) #5 x 4'-0" DIAGONAL BARS AT ALL RE-ENTRANT SLAB-ON-GRADE CORNERS.
 11. REFER TO TYPICAL DETAILS ON DRAWING S6.1.
 12. REFER TO STRUCTURAL NOTES ON DRAWING S1.1.

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 Centerville, Maryland PROJECT NO. L8154

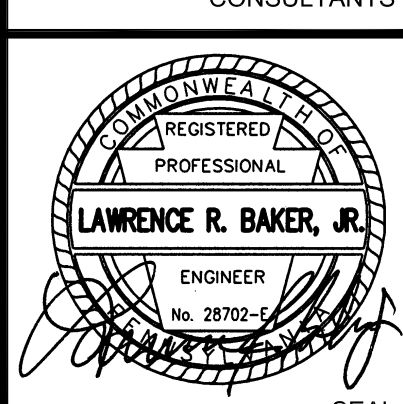


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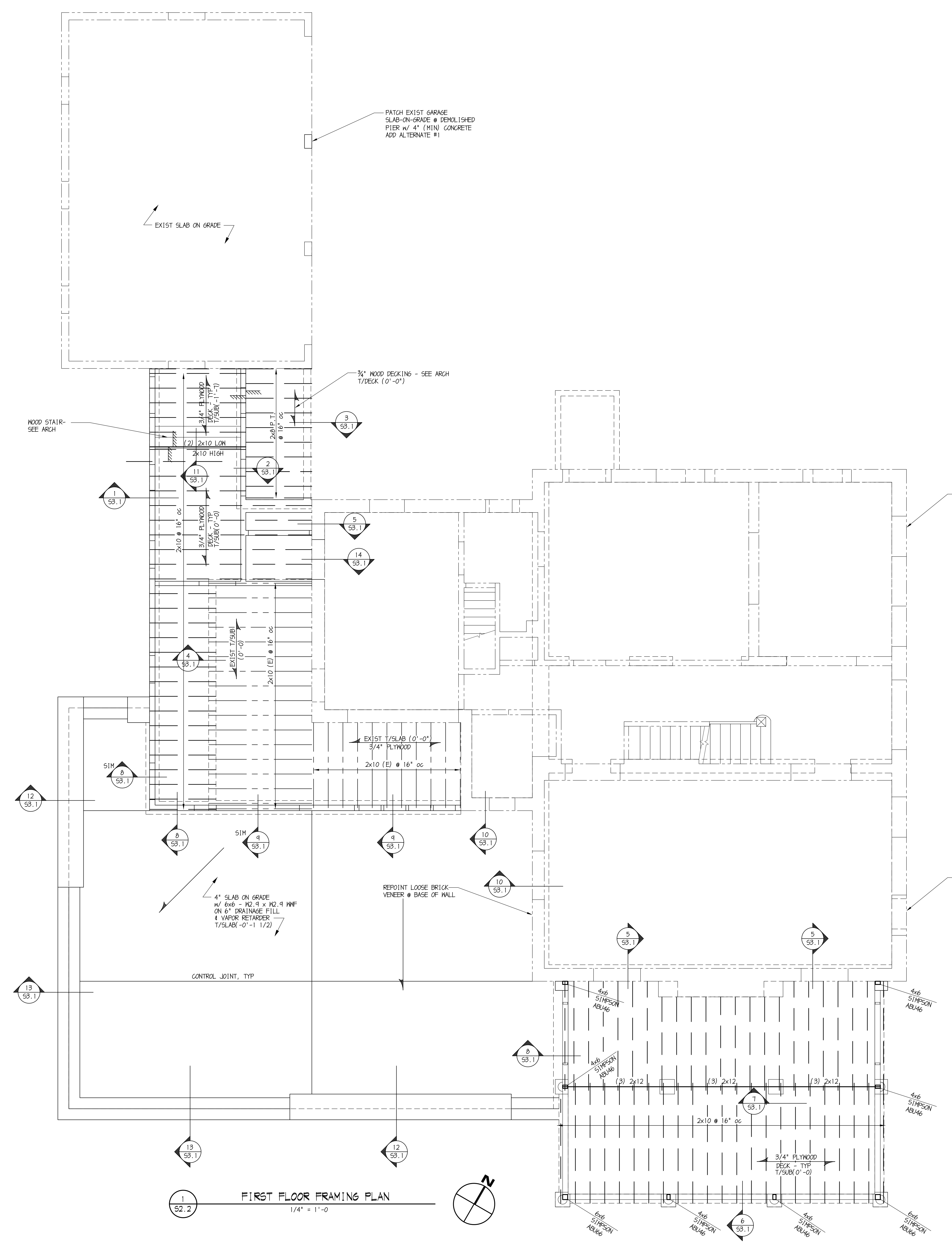
Rev	Description	By	Date
100% CONSTRUCTION DOCUMENTS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:		Drawing Number	
Professional:		FOUNDATION PLAN	
Consultant:		S2.1	
Authorized by:			

RENOVATIONS AND ADDITIONS TO
 MARTIN HOUSE
 SHIPPENSBURG, PENNSYLVANIA 17257

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Project: 10116 Date: 5/09/14
 Drawn by: BRK Checked by: LRB



- FLOOR FRAMING PLAN NOTES**
- FIRST FLOOR REFERENCE DATUM IS ELEVATION 0'-0"
 - ELEVATIONS ARE NOTED AS FOLLOWS, REFERENCED FROM THE DATUM ELEVATION: T/SUB (#'-#) INDICATES TOP OF SUBFLOOR.
 - FLOOR CONSTRUCTION SHALL BE 3/4" T&G PLYWOOD AT ALL FLOOR INFILL AND NEW FLOOR CONSTRUCTION.
 - ATTACH PLYWOOD SUBFLOOR w/ 8d NAILS @ 6" c/c AT ALL SUPPORTED PANEL EDGES AT ALL INTERMEDIATE FRAMING MEMBERS ATTACH w/ 8d NAILS @ 12" c/c. PLYWOOD PANEL EDGES SHALL BE STAGGERED 4'-0" BETWEEN ROWS. APPLY GLUE TO FRAMING, TYP.
 - FLOOR JOISTS SHALL BE EQUALLY SPACED AT 1'-4" c/c MAX. UNO.
 - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
 - EXISTING CONSTRUCTION SHOWN THIS _____, TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.
 - LINTELS SHOWN ON PLAN REFER TO THE OPENINGS BELOW THE REFERENCE FLOOR. PROVIDE LINTELS ACCORDING TO THE LINTEL SCHEDULE FOR ALL OPENINGS NOT SHOWN ON PLAN.
 - ROLLED STEEL SHALL BE ASTM A992, UNO.
 - SYMBOL SHOWN THUS PL# INDICATES BEAM BEARING PLATE - SEE TYPICAL DETAIL. BEARING PLATES SHALL BE PL1, U.N.O.
 - REFER TO TYPICAL DETAILS ON DRAWING 56.1.
 - ALL BUILT UP STUDS SHALL BE CONT TO END, TYP.
 - REFER TO STRUCTURAL NOTES ON DRAWING 51.1.

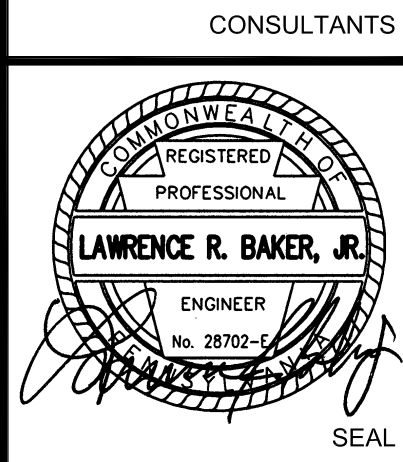
NOTE:
MORTAR USED FOR MASONRY RESTORATION AND REPOINTING SHALL BE A SOFT LIME MORTAR MATCHING THE STRENGTH OF THE EXISTING MORTAR. NEW MORTAR SHALL NOT BE HARDER THAN THE EXISTING MORTAR LEFT IN PLACE. SUBMIT MORTAR MIX DESIGNS BEFORE BEGINNING WORK.

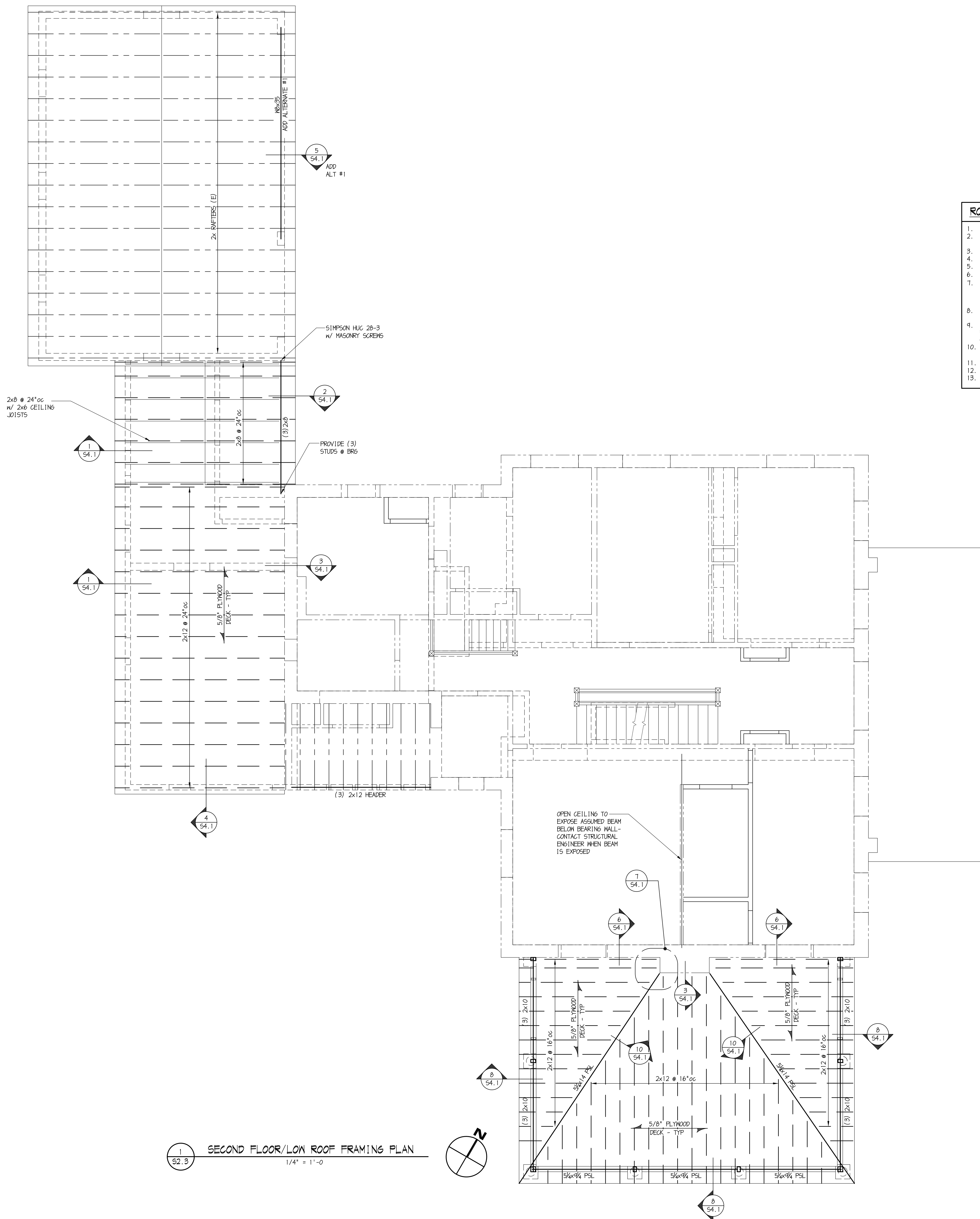
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PROJECT NO. SU - 2010/6B

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100% CONSTRUCTION DOCUMENTS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:		Drawing Number	
Professional:		FIRST FLOOR FRAMING PLAN	
Consultant:		S2.2	
Authorized by:			





- ROOF FRAMING PLAN NOTES**
1. ROOF REFERENCE DATUM IS ELEVATION 0'-0".
 2. ELEVATIONS ARE NOTED AS FOLLOWS, REFERENCED FROM THE DATUM ELEVATION:
(#) -# INDICATES TRUSS/JOIST BEARING ELEVATION.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
 4. ROLLED STEEL SHALL BE ASTM A992, UNO.
 5. ROOF RAFTERS SHALL BE EQUALLY SPACED AT 2'-0" o.c. MAX., UNO.
 6. ROOF CONSTRUCTION SHALL BE 5/8" PLYWOOD DECKING, UNO.
 7. ATTACH PLYWOOD ROOF DECK W/ 10d NAILS @ 6" o.c. AT ALL SUPPORTED PANEL EDGES, ATTACH W/ 12d NAILS @ 12" o.c. AT ALL INTERMEDIATE FRAMING MEMBERS. PLYWOOD PANEL EDGES SHALL BE STAGGERED 4'-0" BETWEEN ROWS. SEE PLAN FOR PANEL SPAN DIRECTION.
 8. EXISTING CONSTRUCTION SHOWN THIS _____, TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.
 9. LINTELS SHOWN ON PLAN REFER TO THE OPENINGS BELOW THE REFERENCE FLOOR. PROVIDE LINTELS ACCORDING TO THE LINTEL SCHEDULE FOR ALL OPENINGS NOT SHOWN ON PLAN.
 10. SYMBOL SHOWN THIS PL# INDICATES BEAM BEARING PLATE - SEE TYPICAL DETAIL. BEARING PLATES SHALL BE PL1, U.N.O.
 11. REFER TO TYPICAL DETAILS ON DRAWING S6.1.
 12. ALL BUILT UP STUDS SHALL BE CONT TO FND, TYP.
 13. REFER TO STRUCTURAL NOTES ON DRAWING S1.1.

NOTE:
MORTAR USED FOR MASONRY RESTORATION AND REPOINTING SHALL BE A SOFT LIME MORTAR MATCHING THE STRENGTH OF THE EXISTING MORTAR. NEW MORTAR SHALL NOT BE HARDER THAN THE EXISTING MORTAR LEFT IN PLACE. SUBMIT MORTAR MIX DESIGNS BEFORE BEGINNING WORK.

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Centreville, Maryland PROJECT NO. L8154

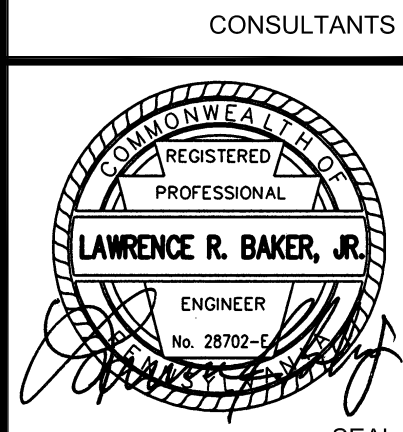


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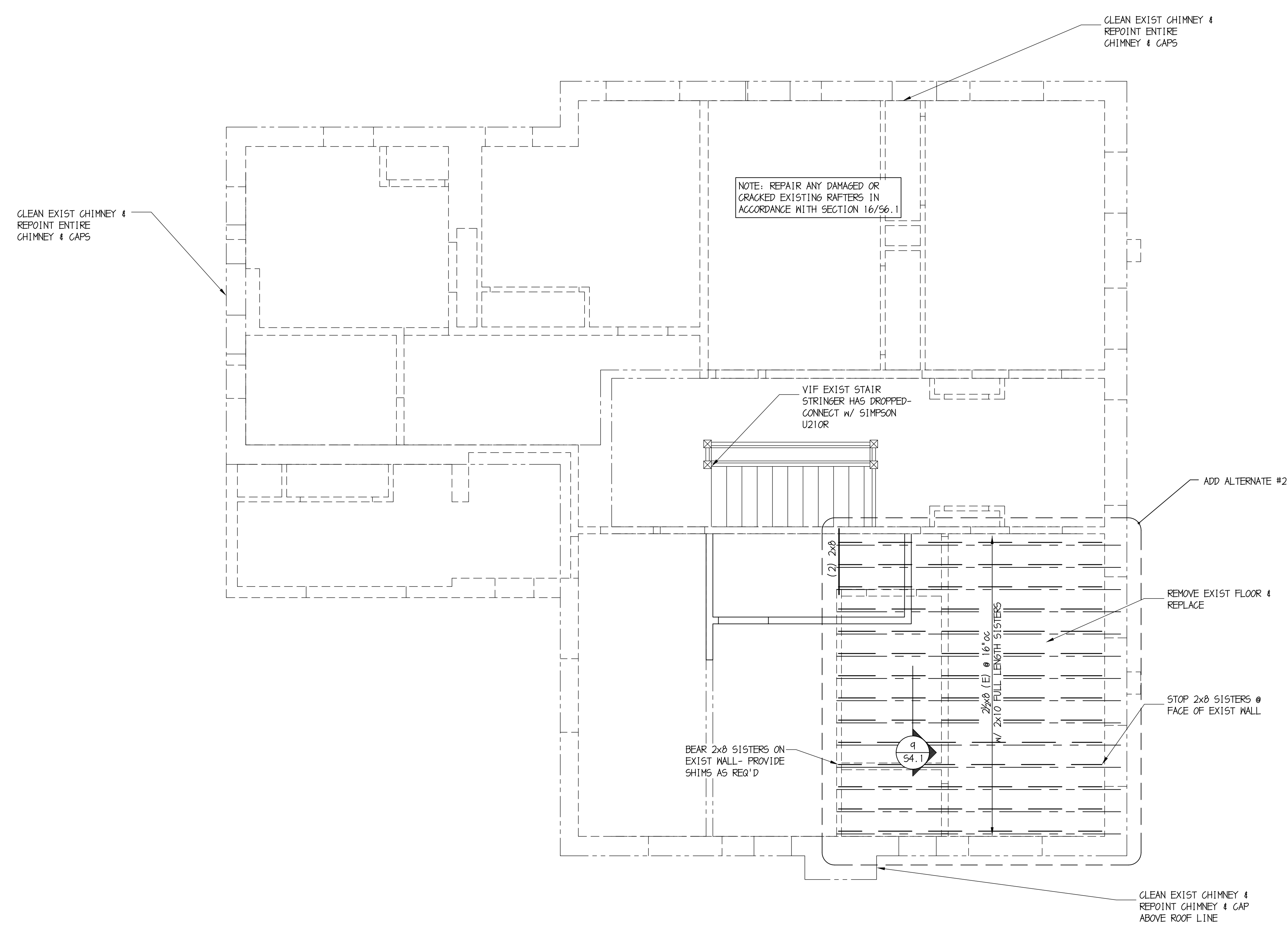
RENOVATIONS AND ADDITIONS TO
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COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:	Drawing Number		
Professional:	SECOND FLR/LOW ROOF FRAMING PLAN S2.3		
Consultant:	Checked by		
Authorized by:	Date		

1 SECOND FLOOR/LOW ROOF FRAMING PLAN
S2.3
1/4" = 1'-0"



- FLOOR FRAMING PLAN NOTES**
1. FIRST FLOOR REFERENCE DATUM IS ELEVATION 0'-0".
 2. ELEVATIONS ARE NOTED AS FOLLOWS, REFERENCED FROM THE DATUM ELEVATION: T/SUB (+/-) INDICATES TOP OF SUBFLOOR.
 3. FLOOR CONSTRUCTION SHALL BE 3" T&G PLYWOOD AT ALL FLOOR INFILL AND NEW FLOOR CONSTRUCTION.
 4. ATTACH PLYWOOD SUBFLOOR W/ 8d NAILS @ 6" C/C AT ALL SUPPORTED PANEL EDGES AT ALL INTERMEDIATE FRAMING MEMBERS ATTACH W/ 8d NAILS @ 12" C/C. PLYWOOD PANEL EDGES SHALL BE STAGGERED 4'-0" BETWEEN ROWS. APPLY GLUE TO FRAMING, TYP.
 5. FLOOR JOISTS SHALL BE EQUALLY SPACED AT 1'-4" C/C MAX. UNO.
 6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
 7. EXISTING CONSTRUCTION SHOWN THIS WAY TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.
 8. LINTELS SHOWN ON PLAN REFER TO THE OPENINGS BELOW THE REFERENCE FLOOR. PROVIDE LINTELS ACCORDING TO THE LINTEL SCHEDULE FOR ALL OPENINGS NOT SHOWN ON PLAN.
 9. ROLLED STEEL SHALL BE ASTM A992, UNO.
 10. SYMBOL SHOWN THIS PL# INDICATES BEAM BEARING PLATE - SEE TYPICAL DETAIL. BEARING PLATES SHALL BE PL1, U.N.O.
 11. REFER TO TYPICAL DETAILS ON DRAWING 56.1.
 12. ALL BUILT UP STUDS SHALL BE CONT TO FIN, TYP.
 13. REFER TO STRUCTURAL NOTES ON DRAWING 51.1.

NOTE:
MORTAR USED FOR MASONRY RESTORATION AND REPOINTING SHALL BE A SOFT LIME MORTAR MATCHING THE STRENGTH OF THE EXISTING MORTAR. NEW MORTAR SHALL NOT BE HARDER THAN THE EXISTING MORTAR LEFT IN PLACE. SUBMIT MORTAR MIX DESIGNS BEFORE BEGINNING WORK.

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Centreville, Maryland PROJECT NO. L8154



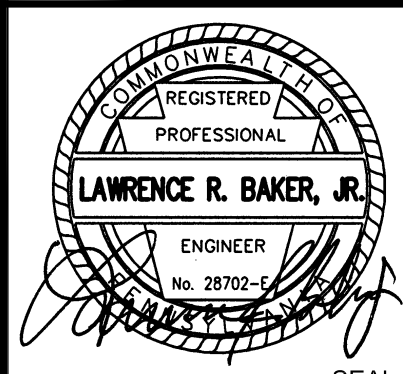
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1 S2.4 THIRD FLOOR FRAMING PLAN 1/4" = 1'-0" N

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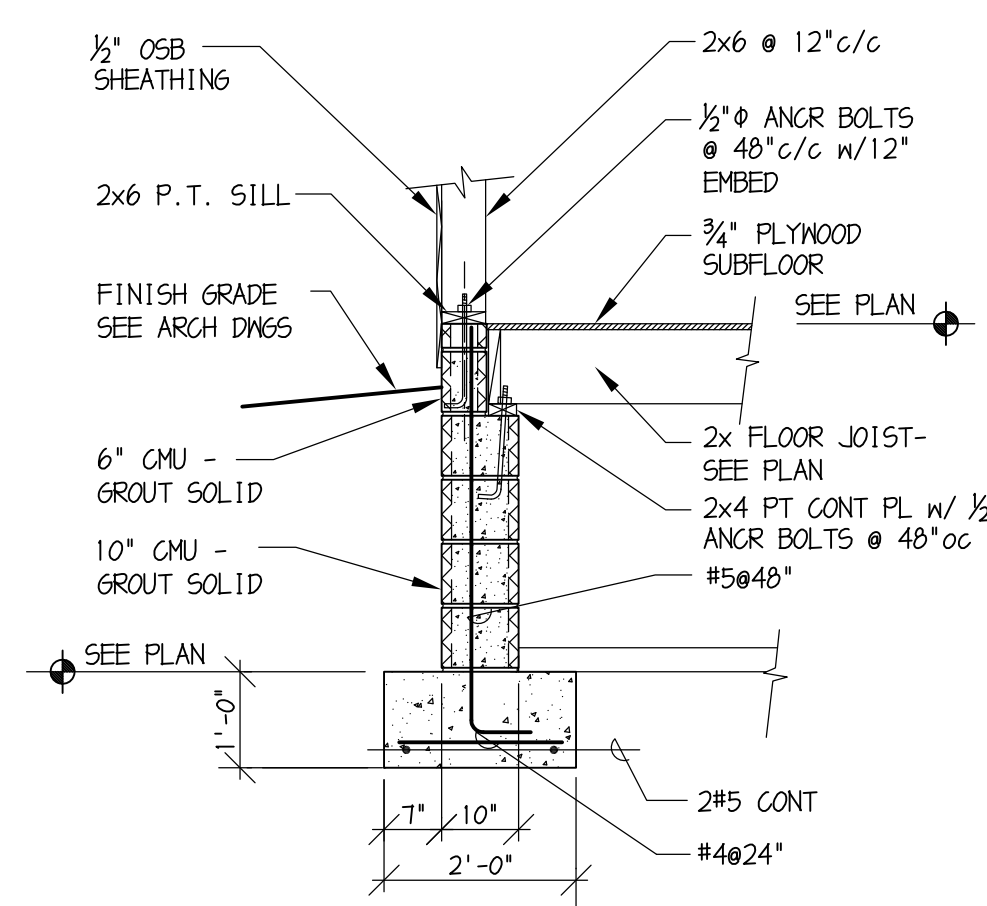
CONSULTANTS



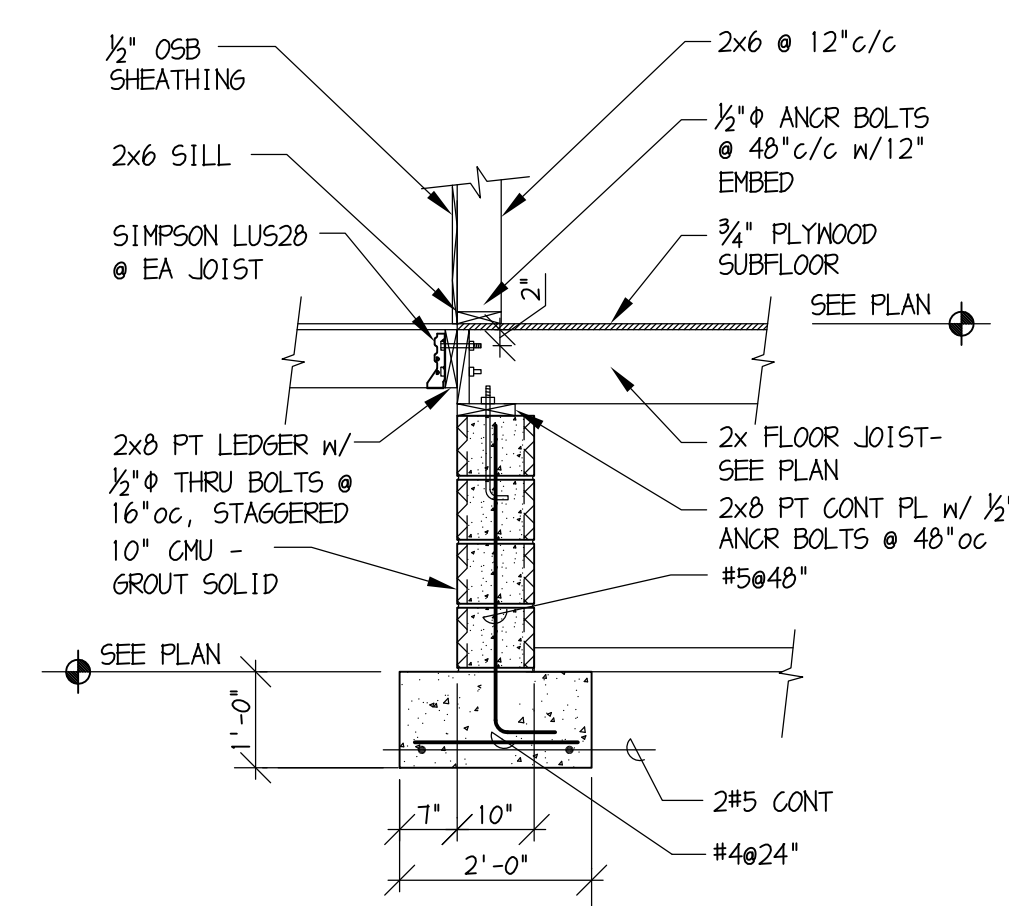
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100% CONSTRUCTION DOCUMENTS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:	THIRD FLOOR FRAMING PLAN		
Professional:	S2.4		
Consultant:			
Authorized by:			

Project: 10116 Date: 5/09/14
Drawn by: BRK Checked by: LRB

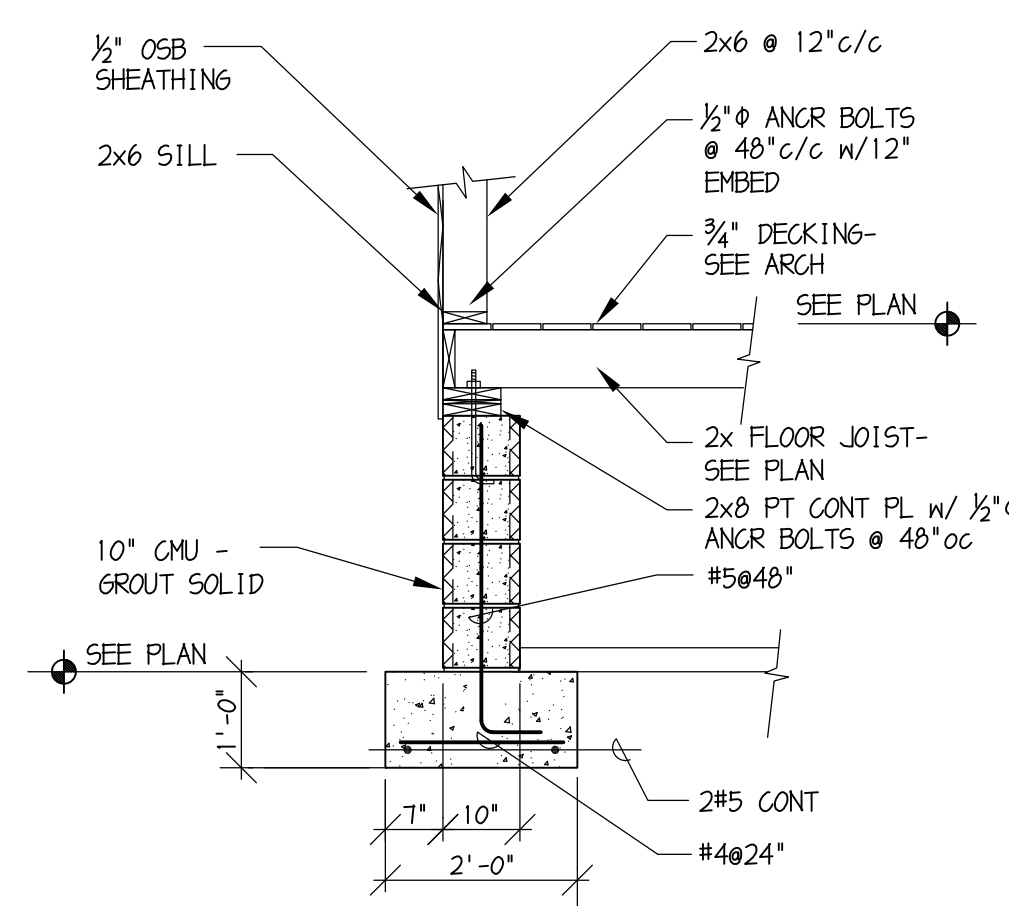
Drawing Number: THIRD FLOOR FRAMING PLAN
S2.4



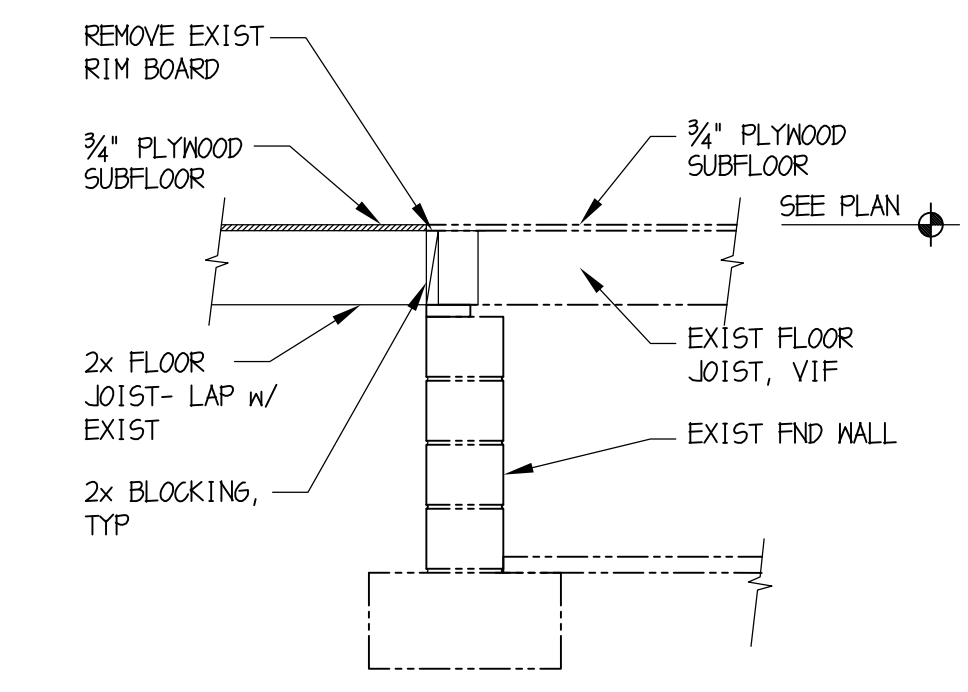
1 SECTION
S3.1 1/2" = 1'-0"



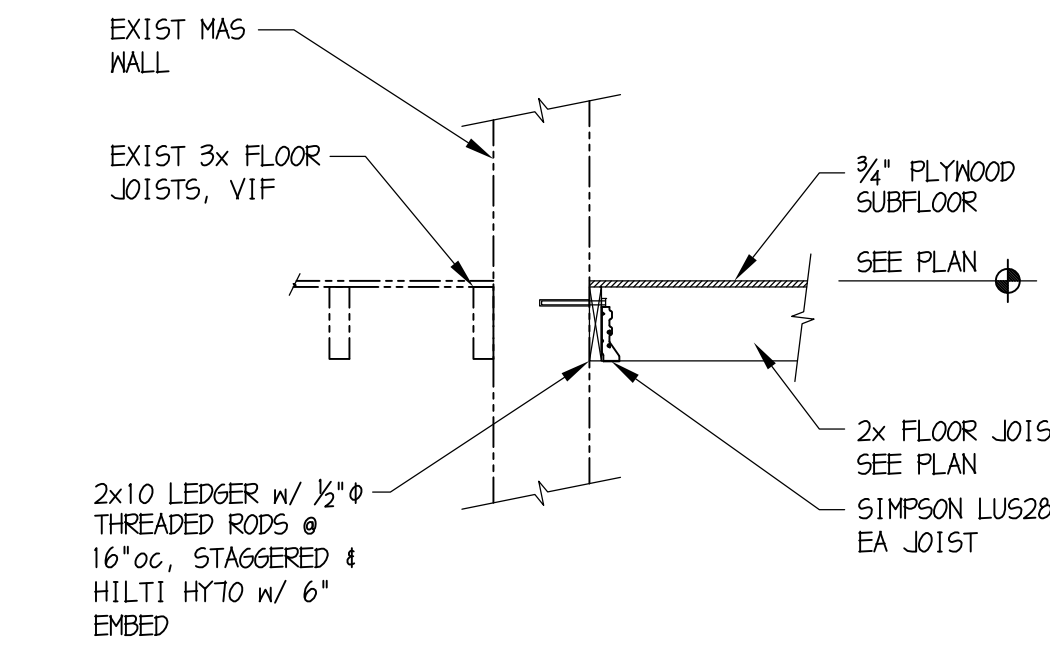
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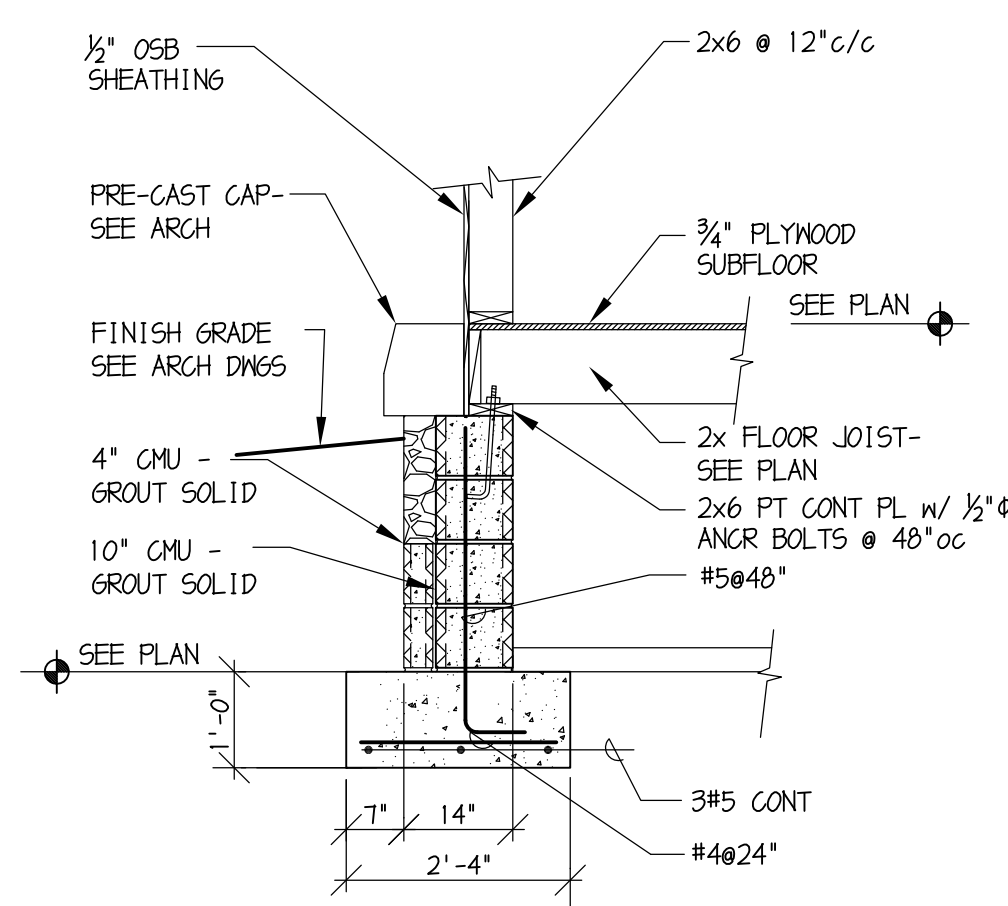
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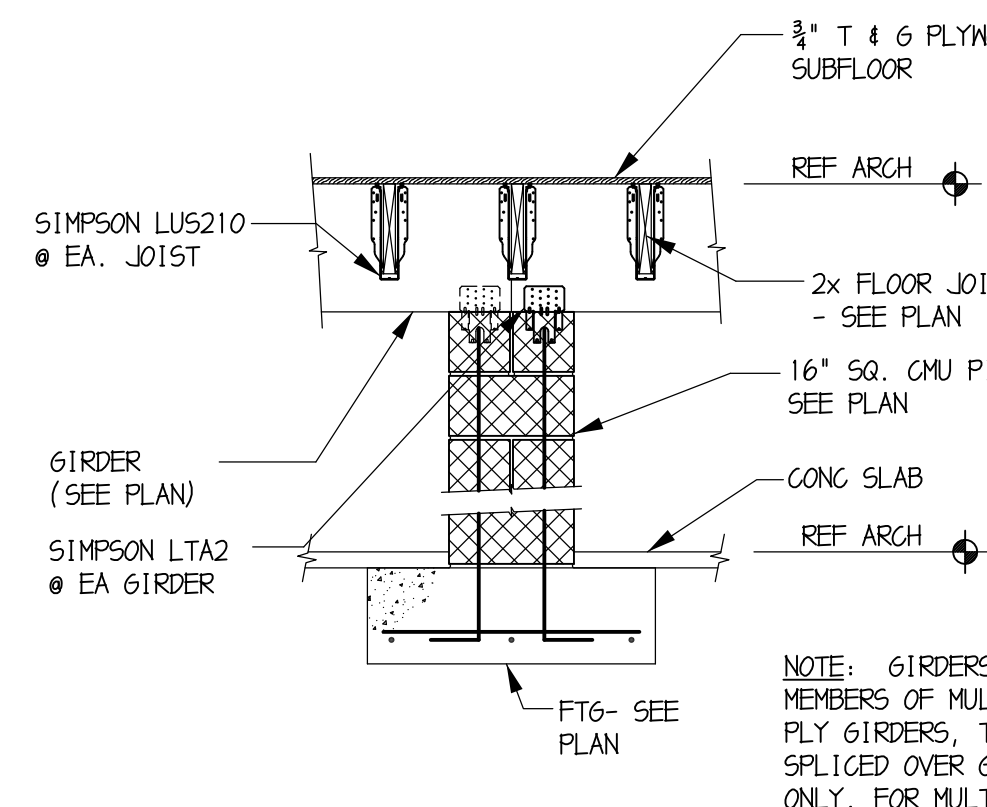
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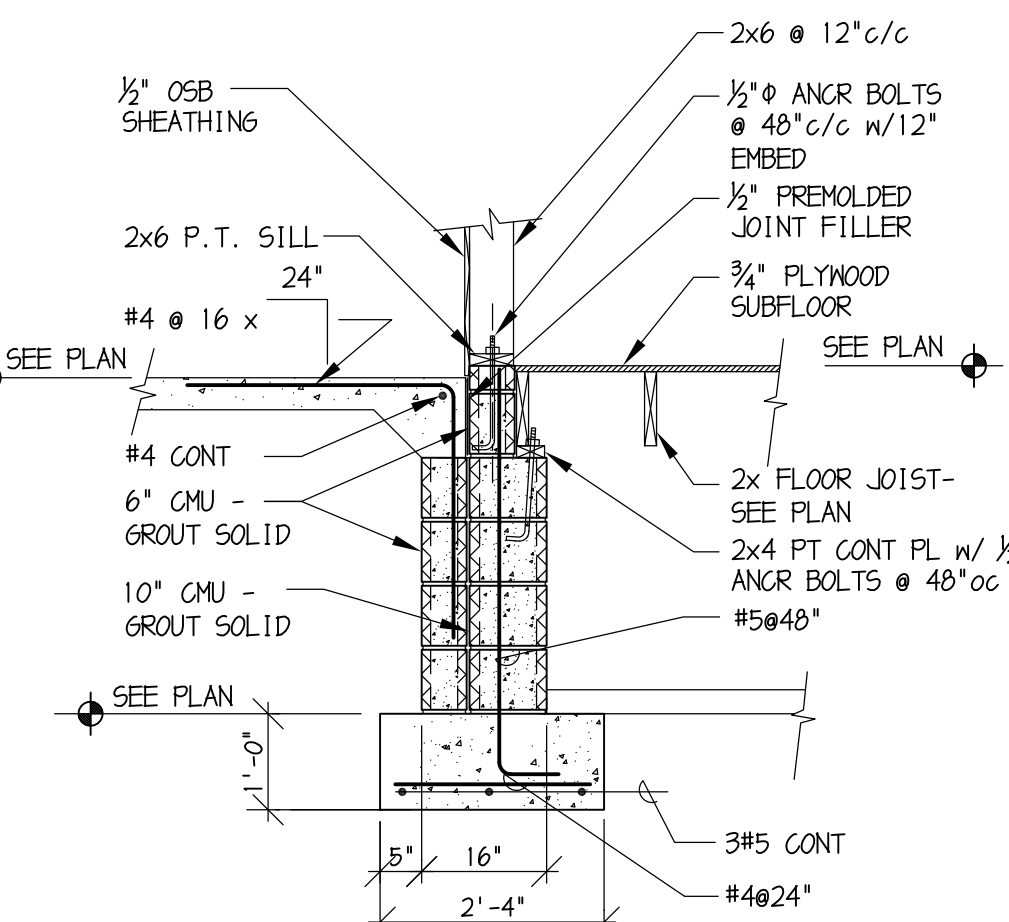
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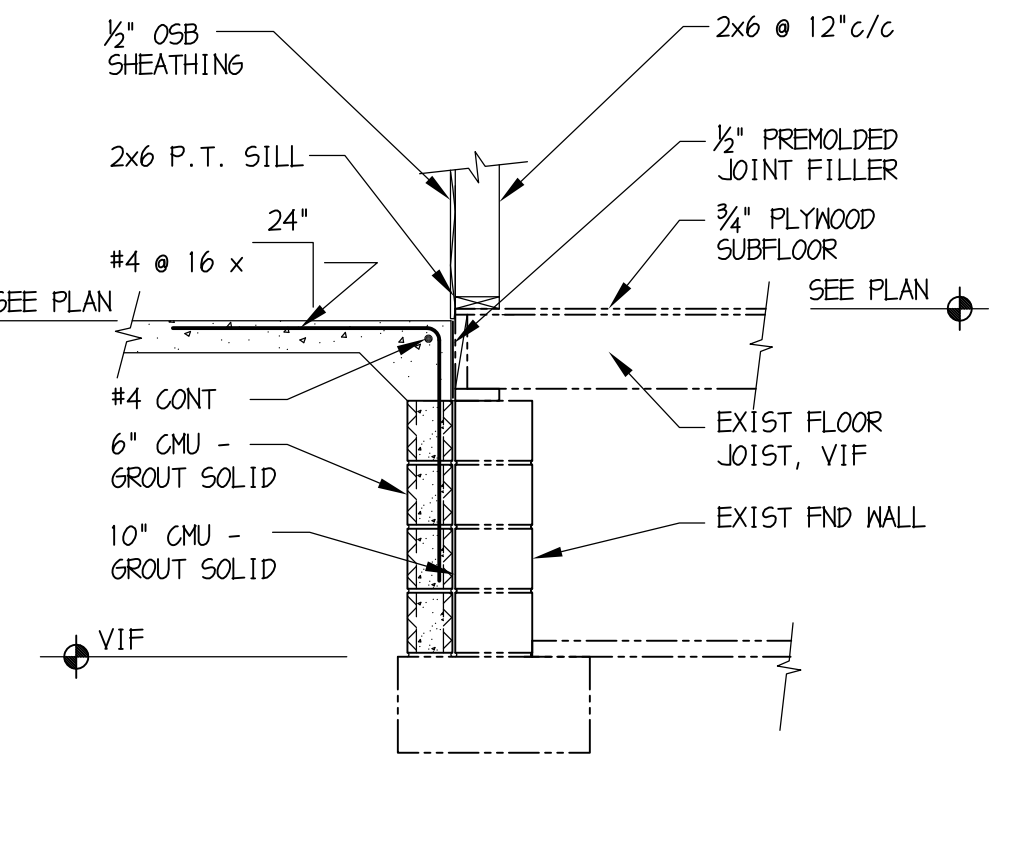
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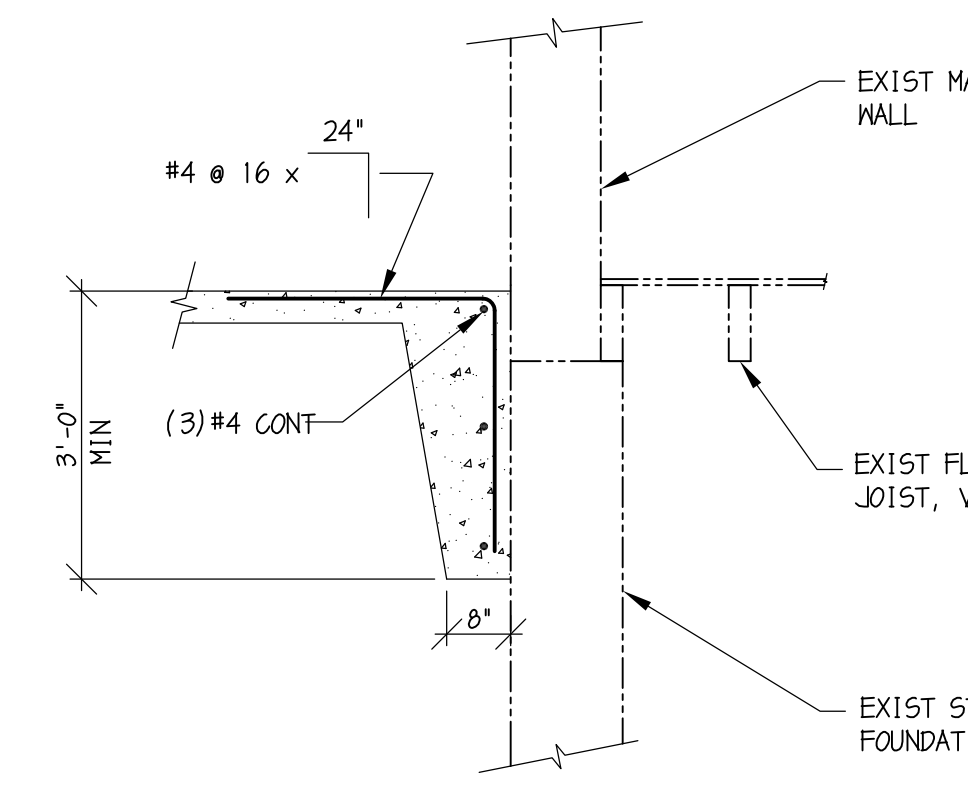
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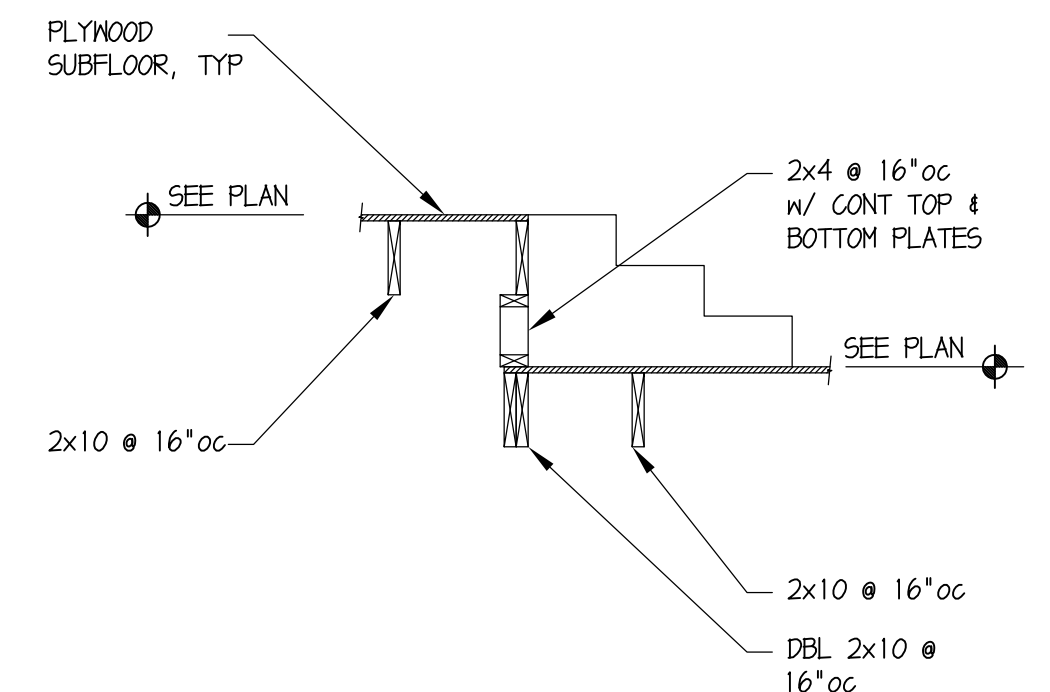
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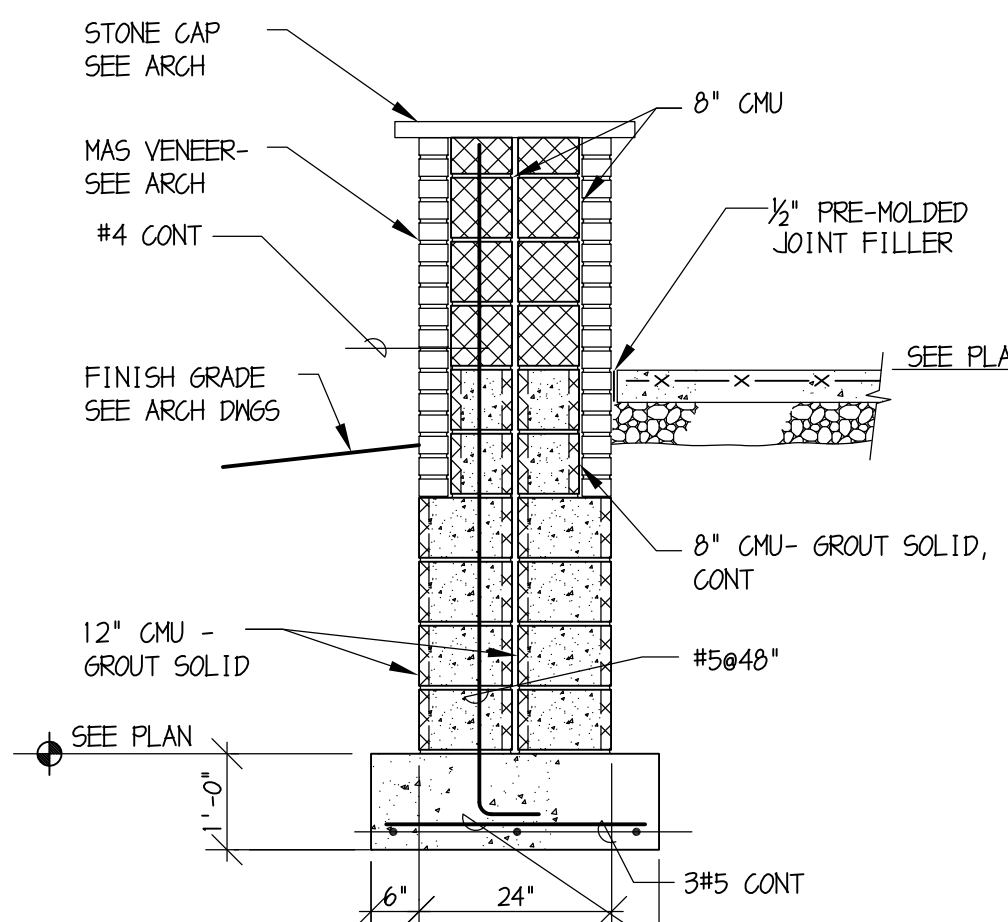
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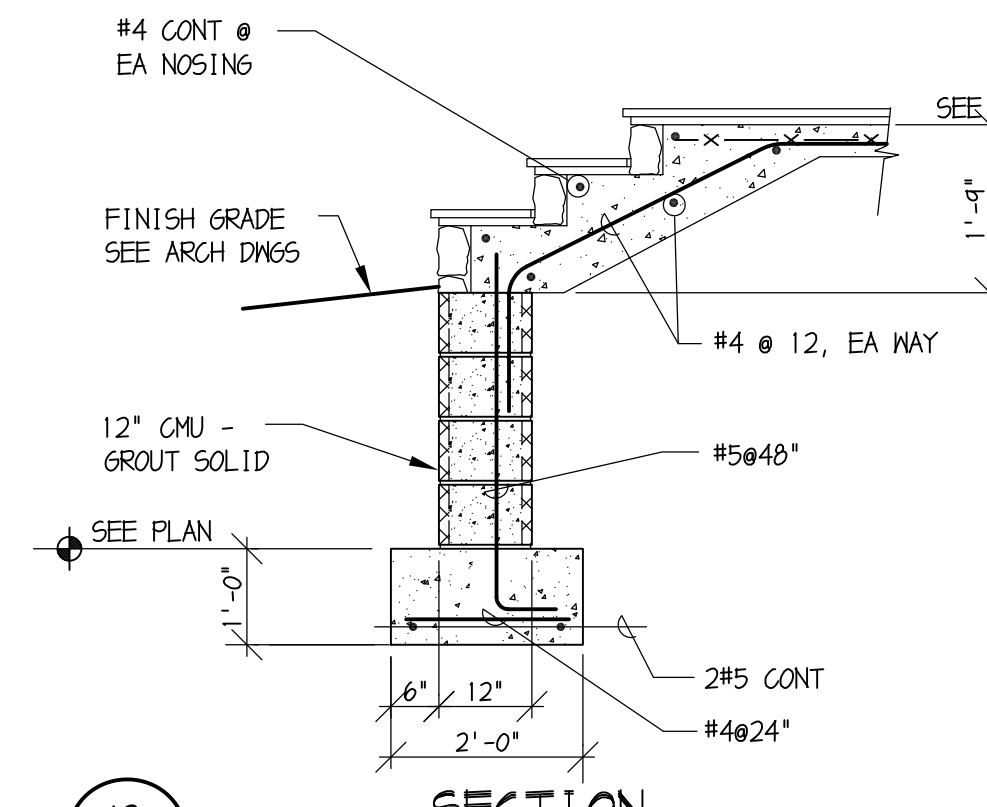
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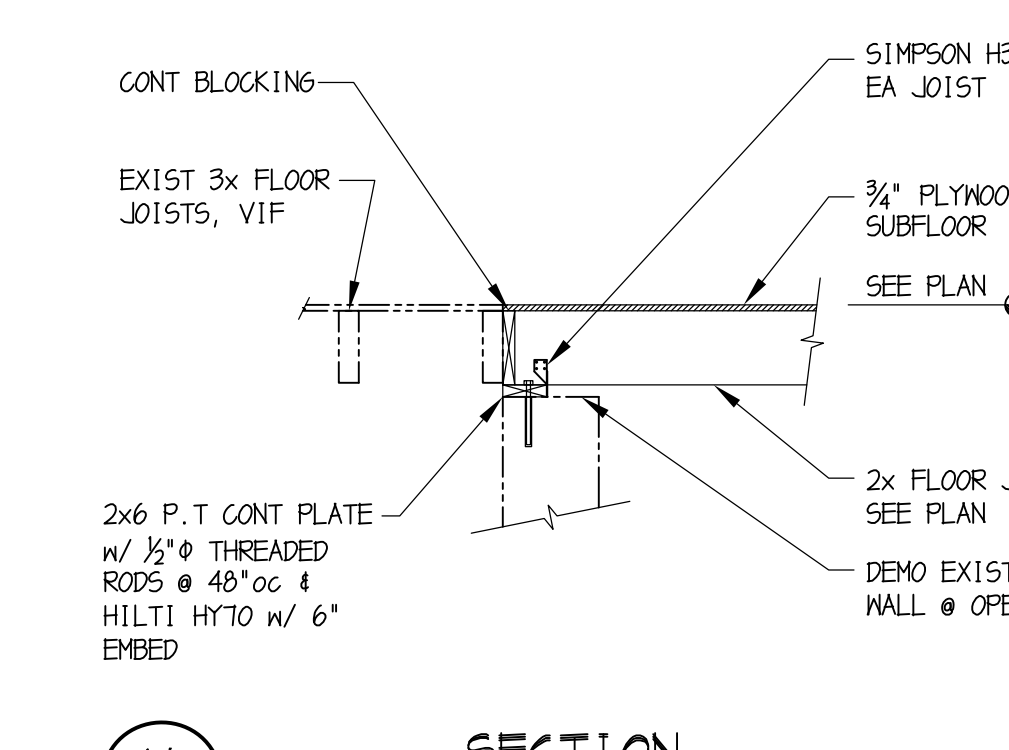
11 SECTION
S3.1 1/2" = 1'-0"



12 SECTION
S3.1 1/2" = 1'-0"



13 SECTION
S3.1 1/2" = 1'-0"



14 SECTION
S3.1 1/2" = 1'-0"

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Centerville, Maryland PROJECT NO. L8154

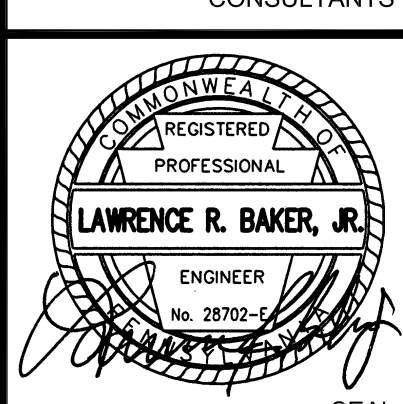


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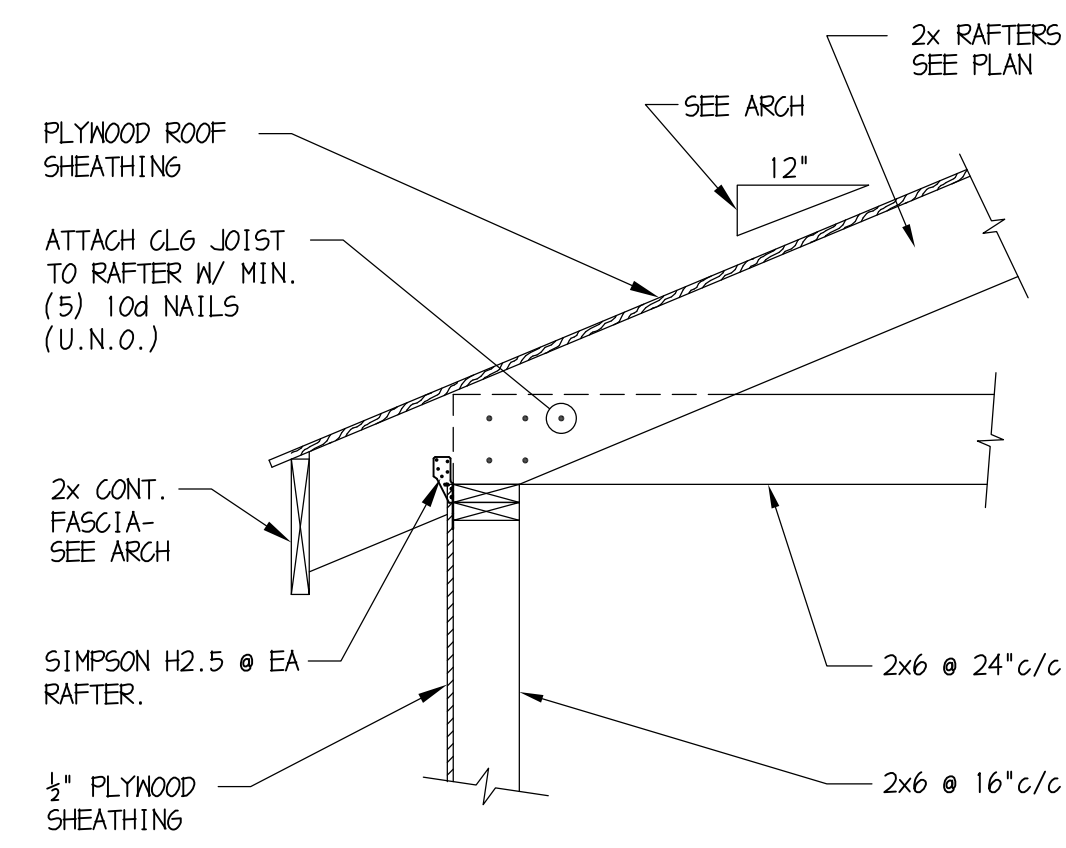
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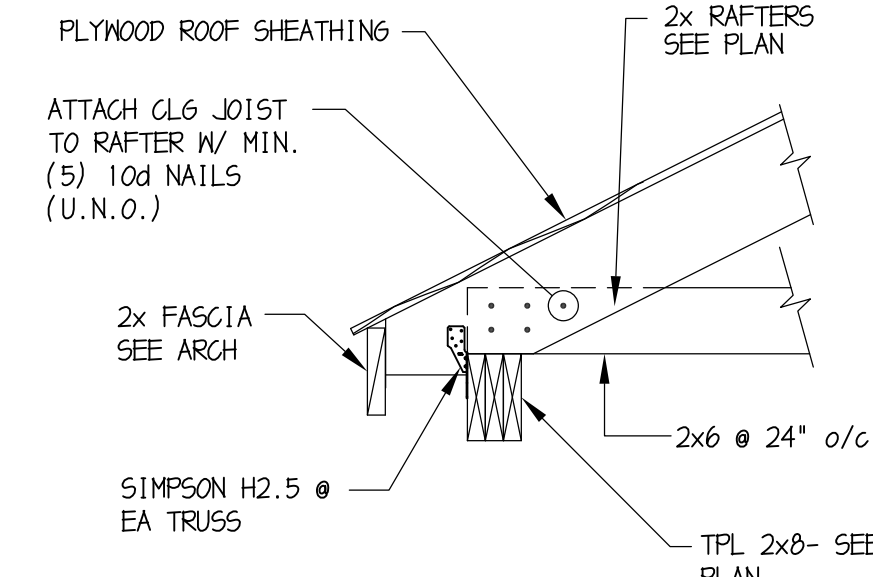
Rev	Description	By	Date
100% CONSTRUCTION DOCUMENTS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:			Drawing Number
Professional:			FOUNDATION SECTIONS
Consultant:			S3.1
Authorized by:			



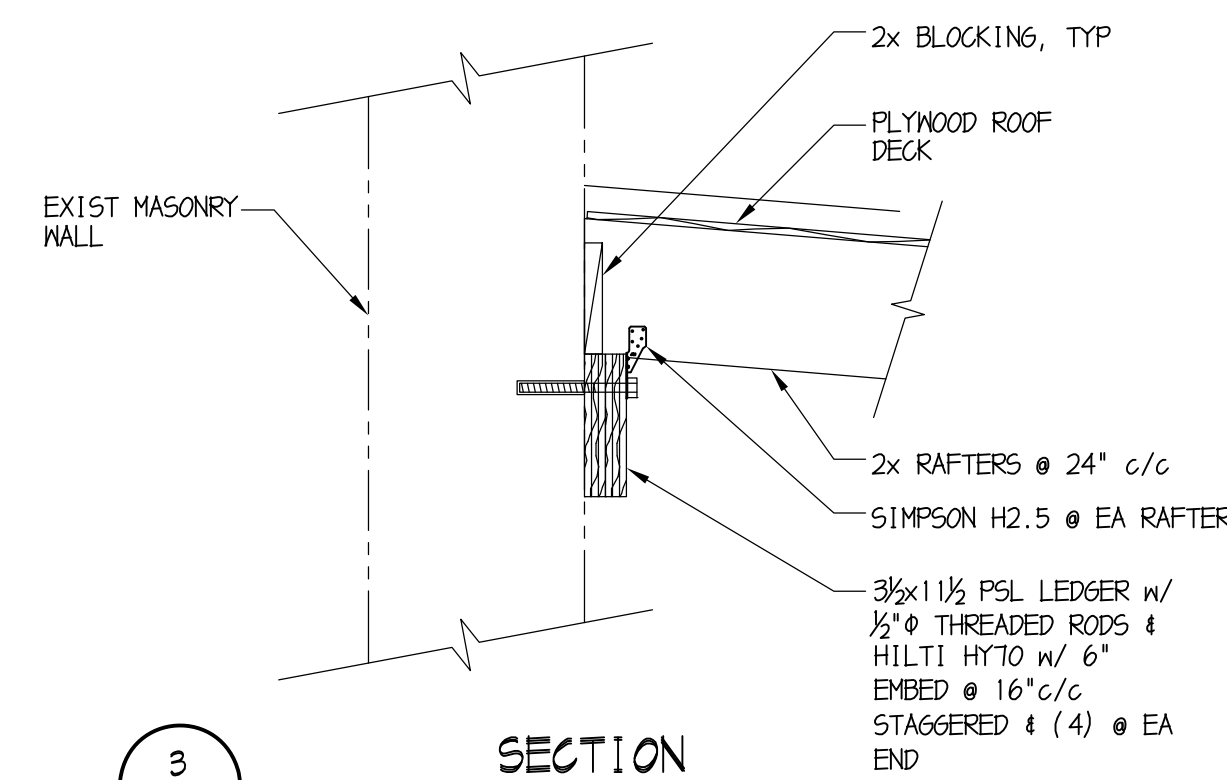
Project: 10116 Date: 5/09/14
Drawn by: BRK Checked by: LRB



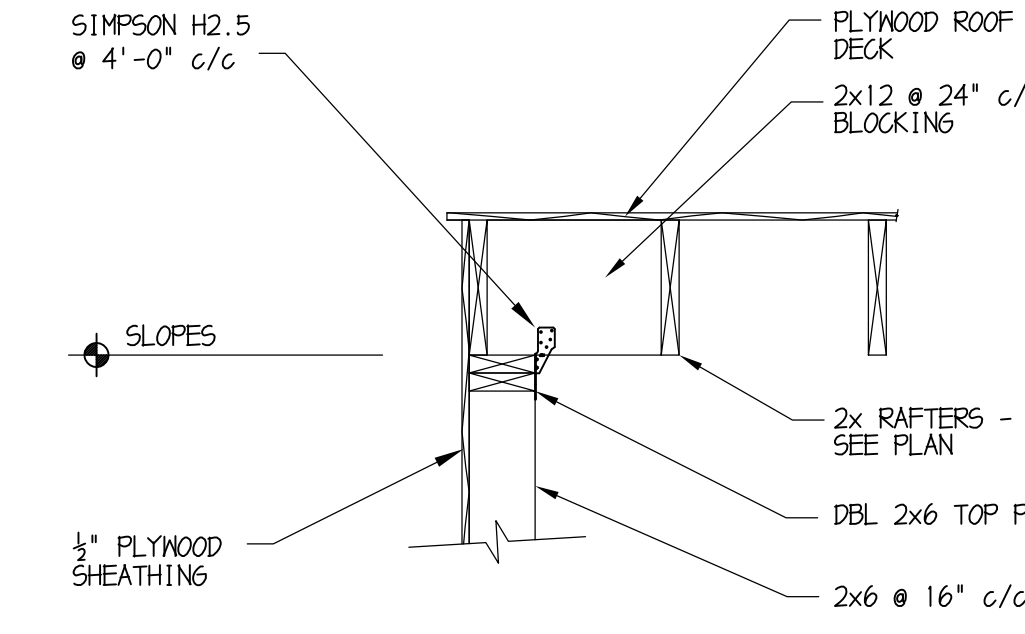
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S4.1 3/4" = 1'-0"



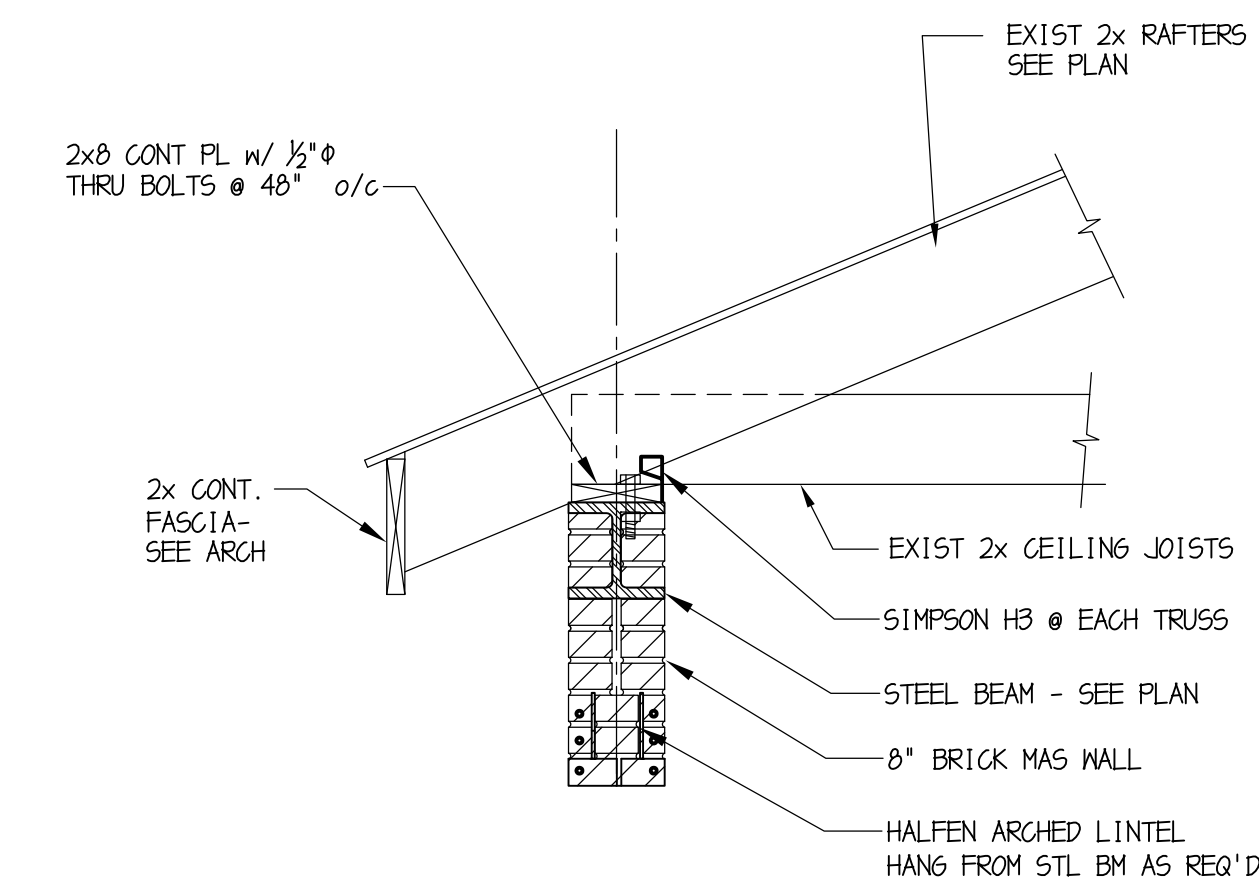
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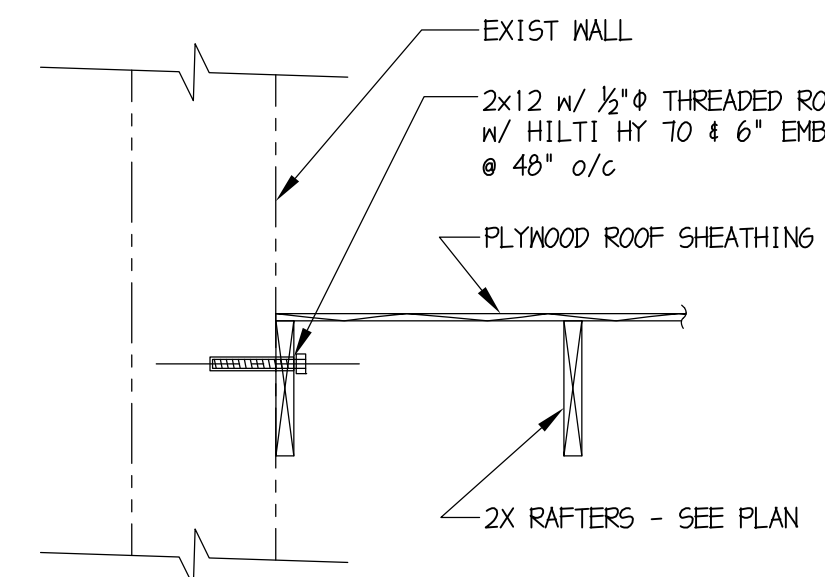
3 SECTION
S4.1 3/4" = 1'-0"



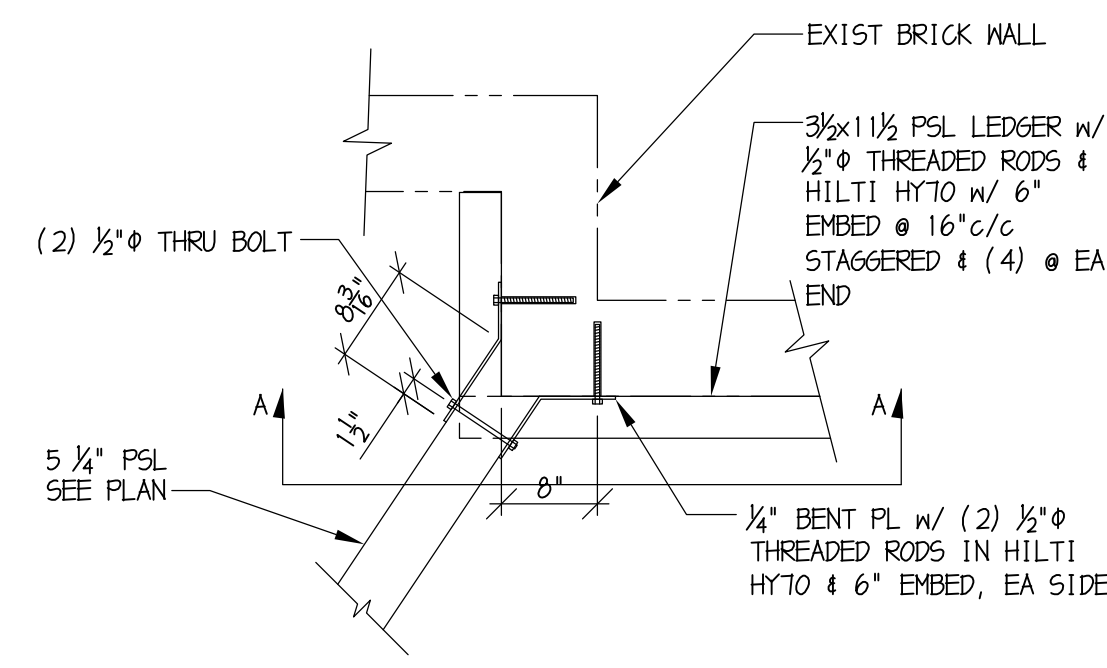
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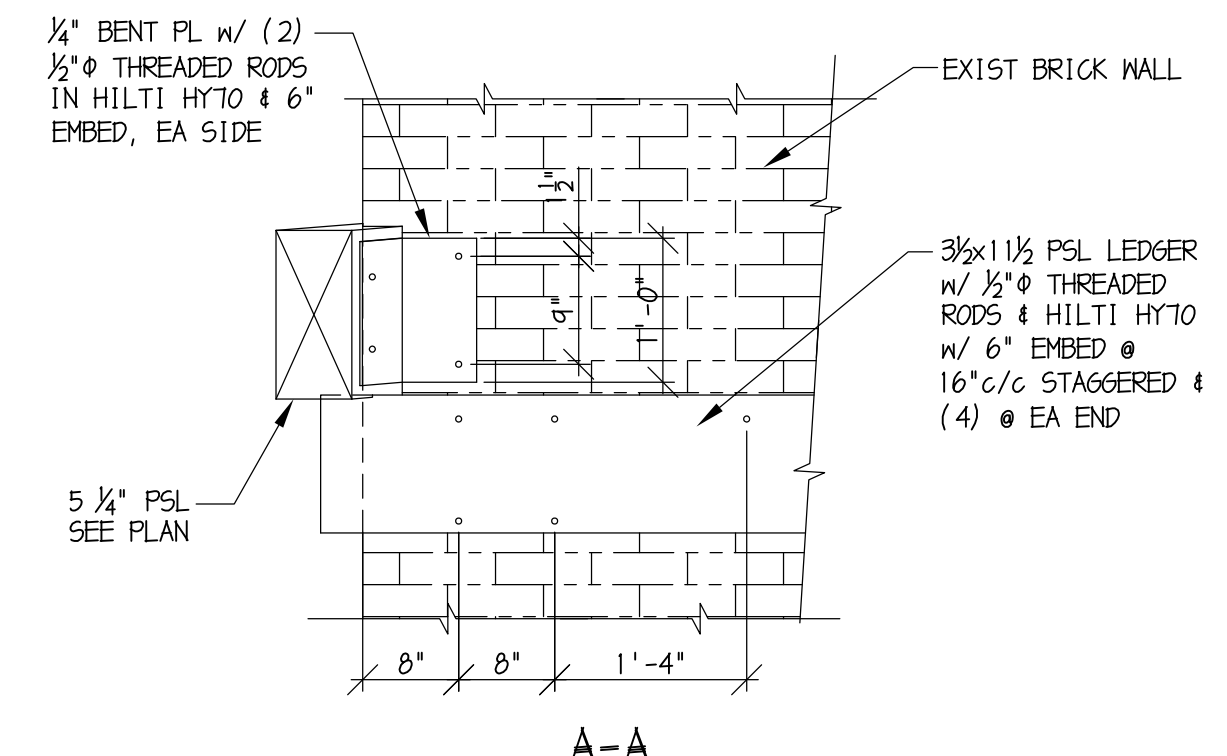
5 ADD ALT #1 SECTION
S4.1 3/4" = 1'-0"



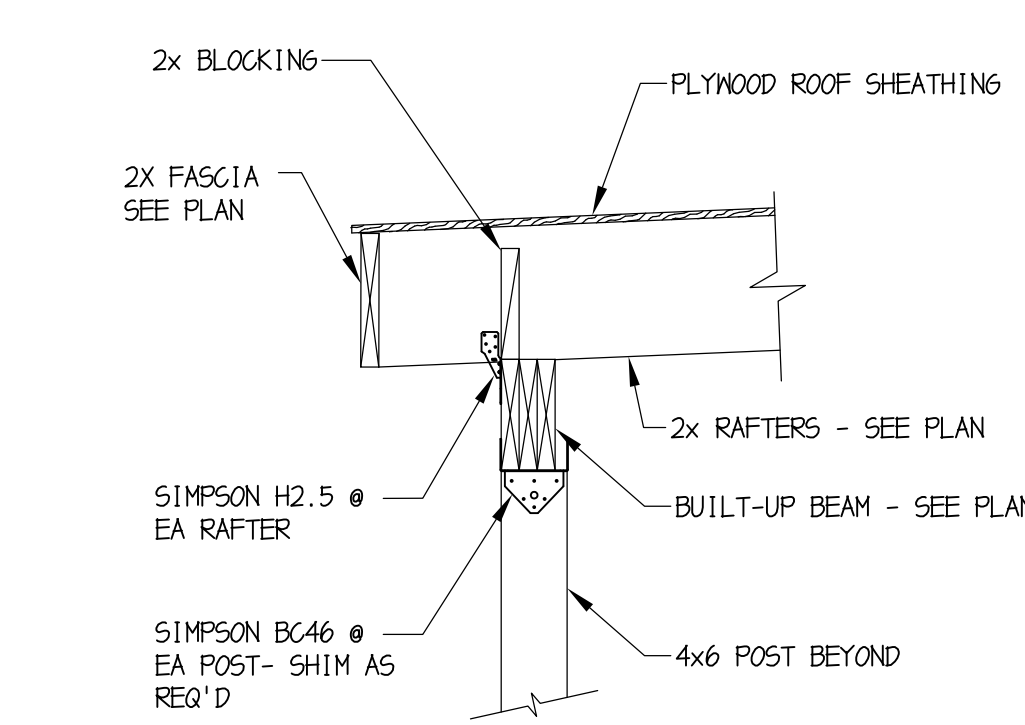
6 SECTION
S4.1 3/4" = 1'-0"



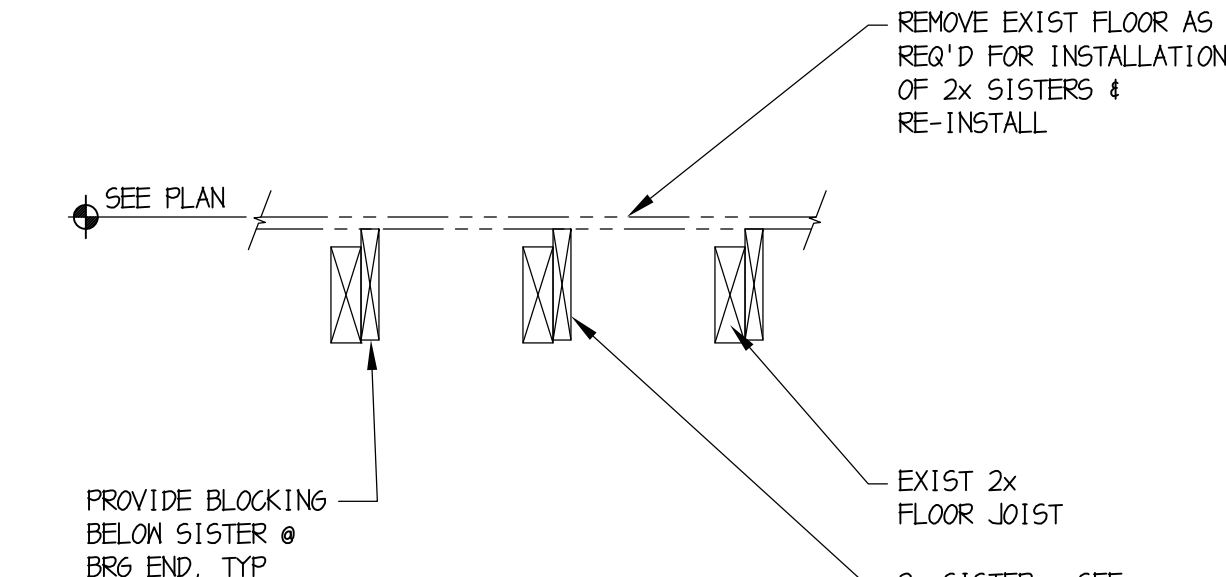
7 SECTION
S4.1 3/4" = 1'-0"



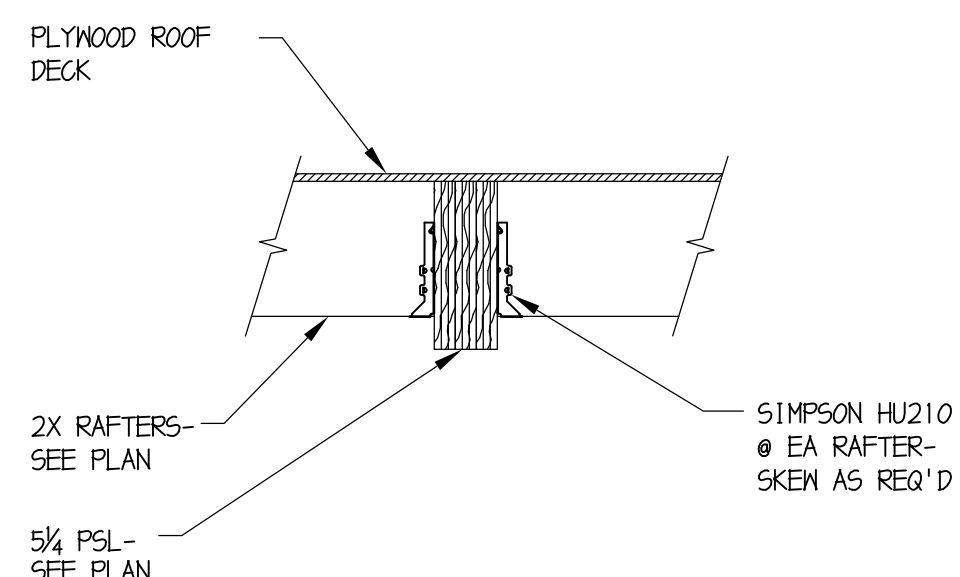
8 SECTION
S4.1 3/4" = 1'-0"



9 SECTION
S4.1 3/4" = 1'-0"



10 ADD ALT #2 SECTION
S4.1 3/4" = 1'-0"



10 SECTION
S4.1 3/4" = 1'-0"

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Haddon Heights, New Jersey
Centerville, Maryland PROJECT NO. L8154



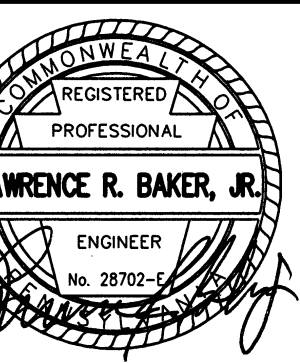
Shippensburg University

PROJECT NO. SU - 2010/6B

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

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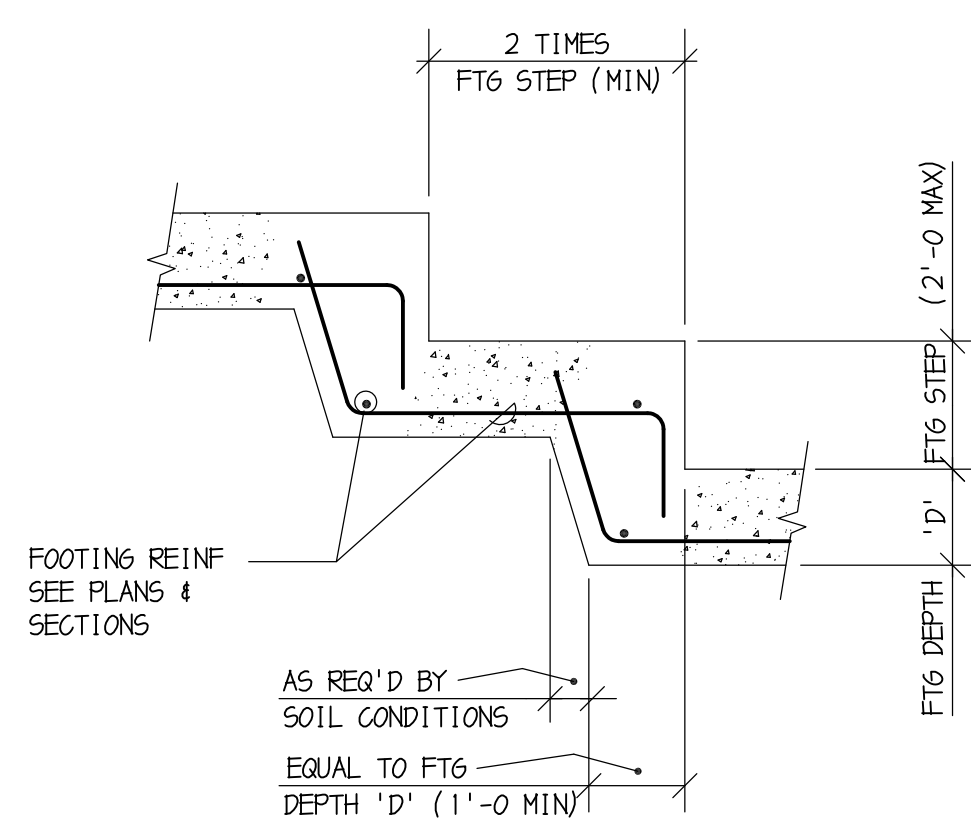
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COMMONWEALTH OF PENNSYLVANIA
STATE SYSTEM OF HIGHER EDUCATION
HARRISBURG, PENNSYLVANIA

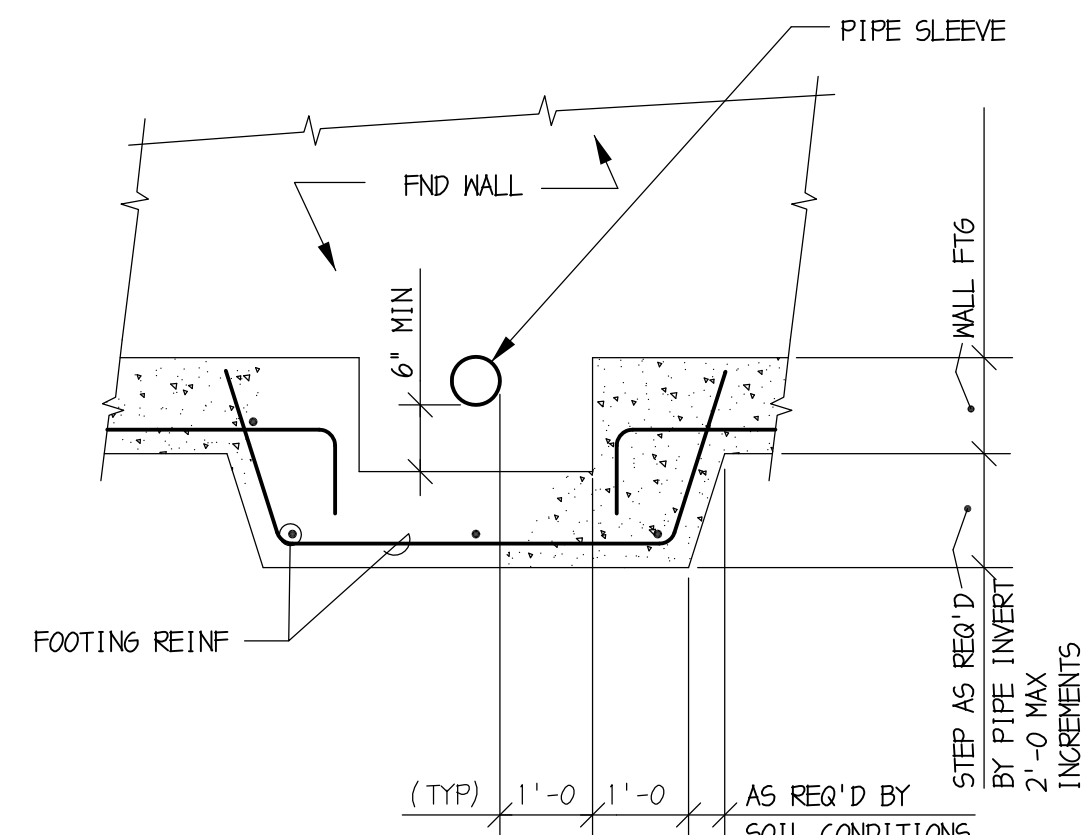
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Professional:
Consultant:
Authorized by:

Project 10116 Date 5/09/14
Drawn by BRK Checked by LRB

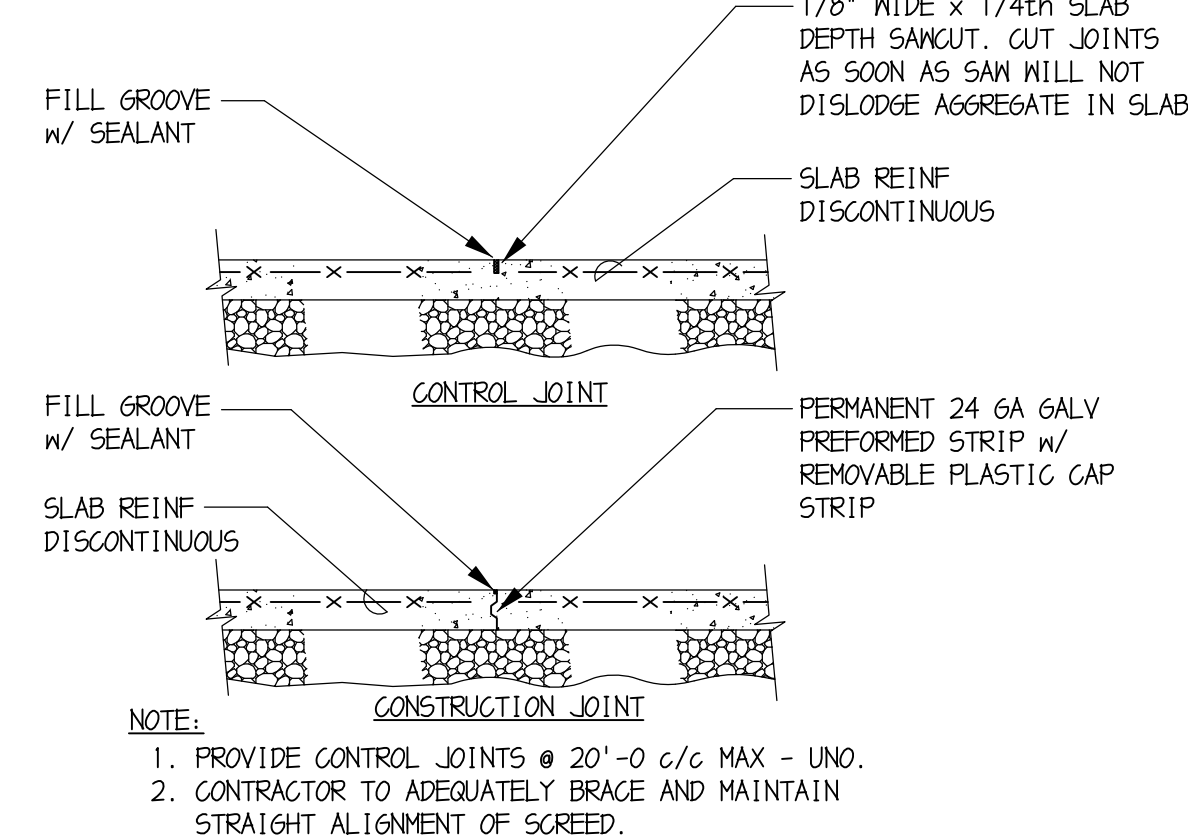
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FRAMING SECTIONS
S4.1



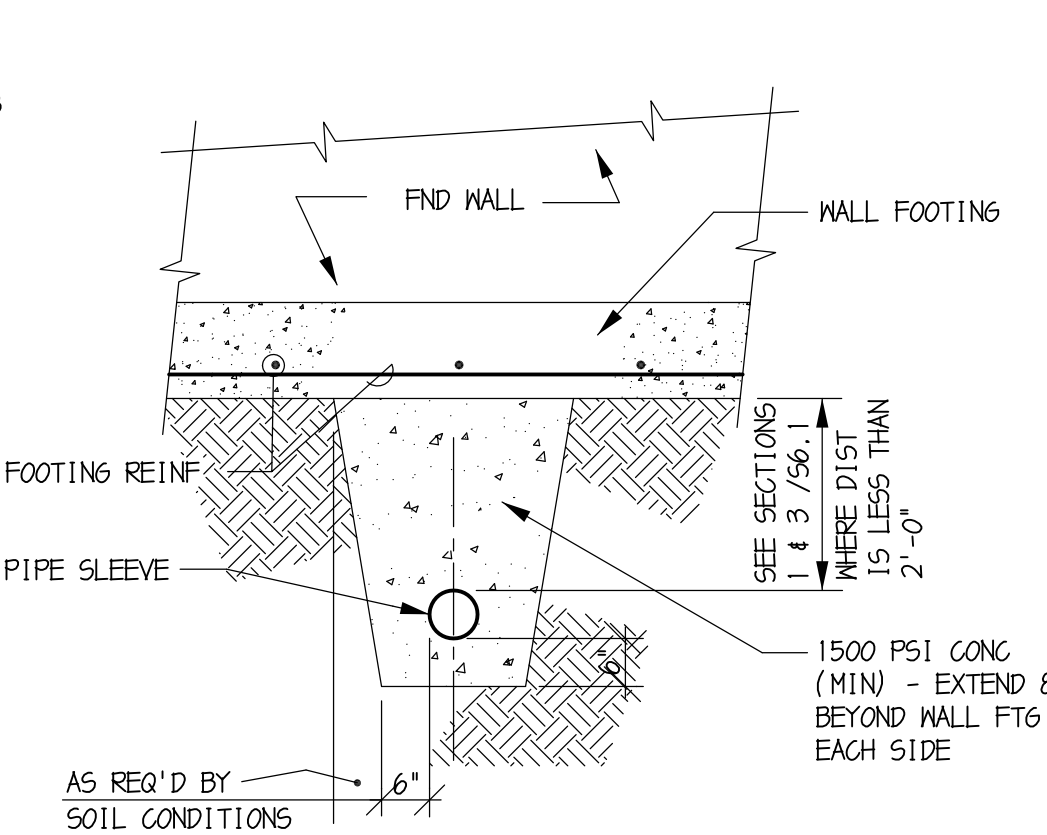
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S6.1 FOOTING STEP DETAIL
1/2" = 1'-0"



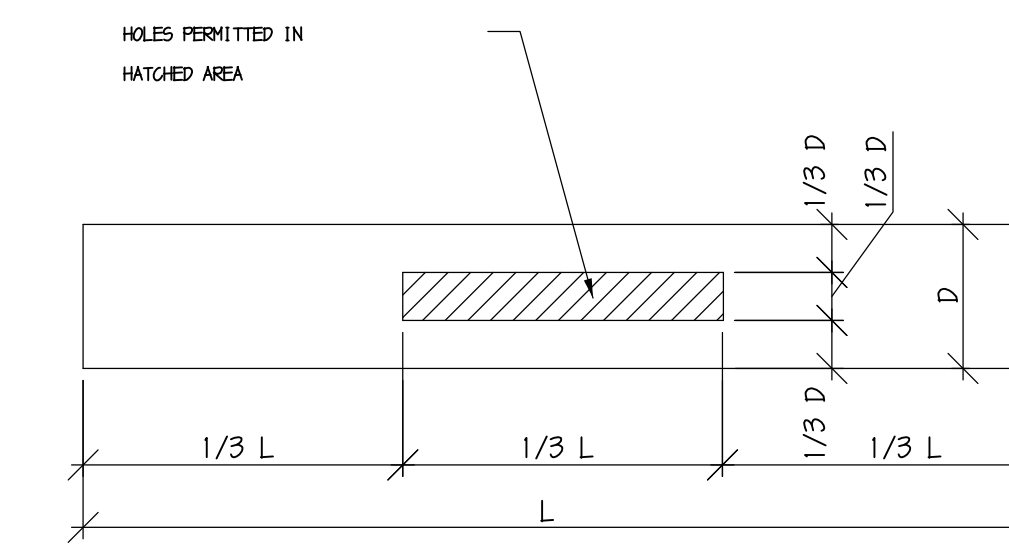
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S6.1 STEP FT6 @ PIPE CROSSING
1/2" = 1'-0"



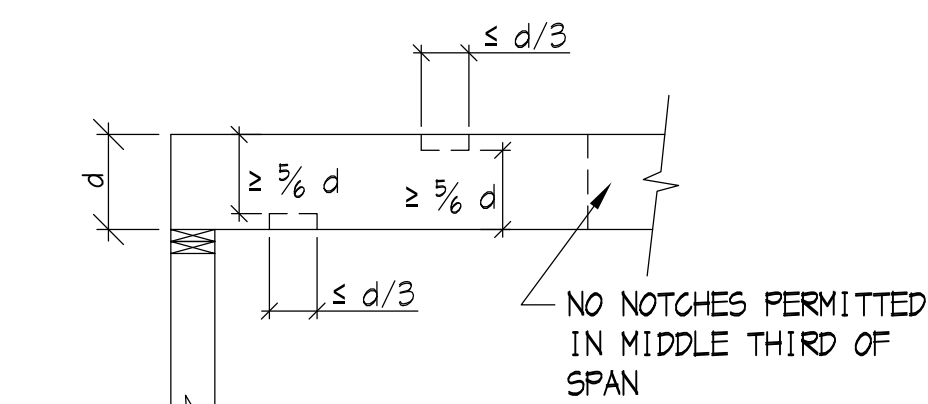
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S6.1 SLAB CONST/CONTROL JOINT
1/2" = 1'-0"



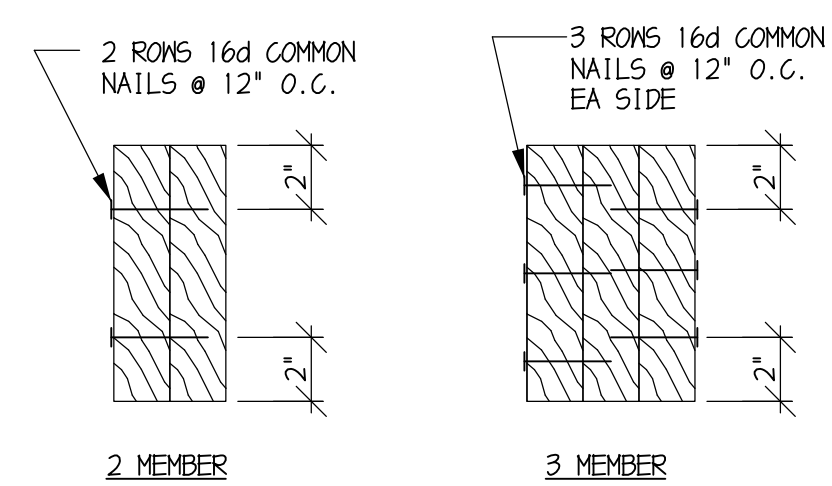
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S6.1 PIPE CROSSING BELOW WALL FT6
1/2" = 1'-0"



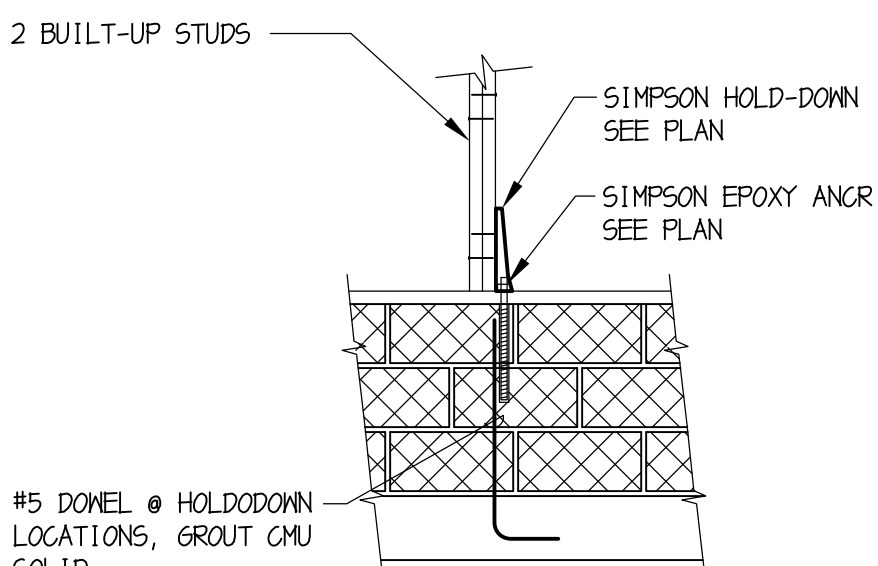
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S6.1 ALLOW HOLES IN ENGINEERED LUMBER
NO SCALE



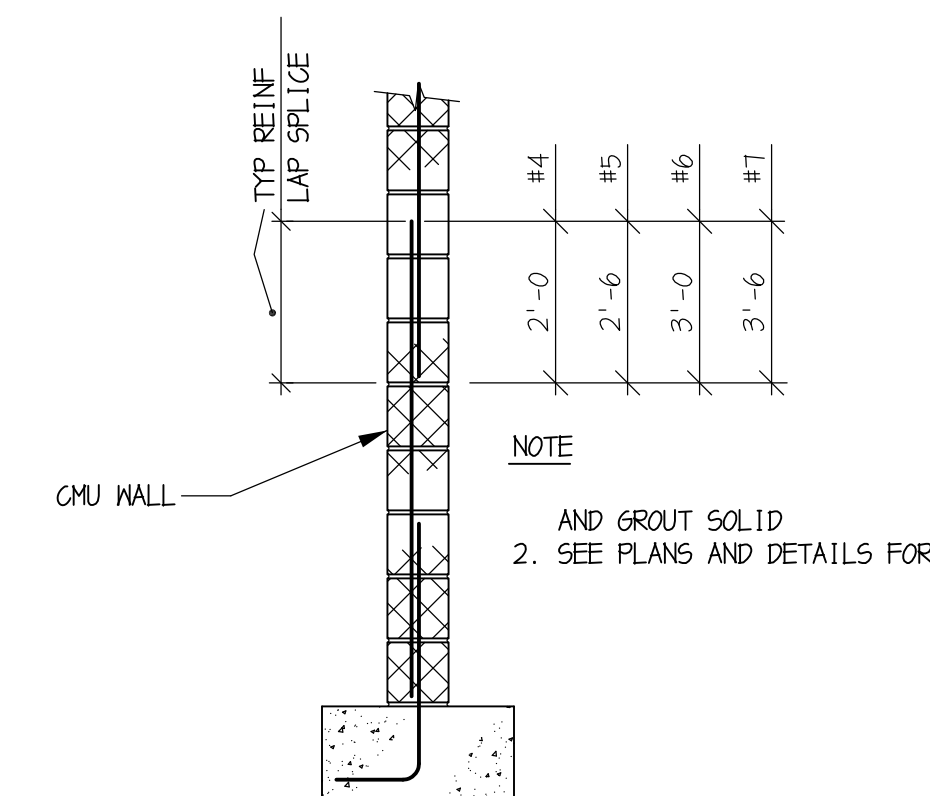
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S6.1 ALLOWABLE NOTCHES IN SAWN LUMBER
NO SCALE



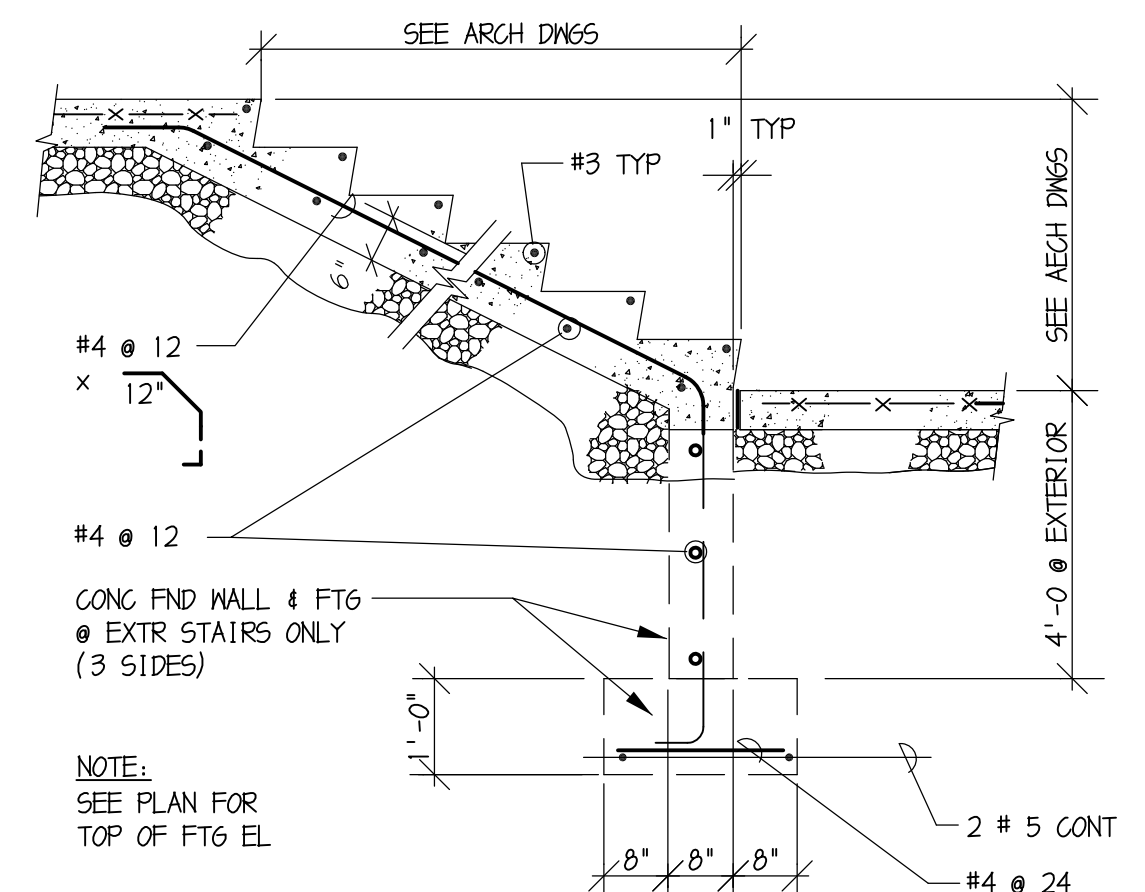
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S6.1 MULTIPLE MEMBER CONNECTIONS FOR BEAMS
NOT TO SCALE



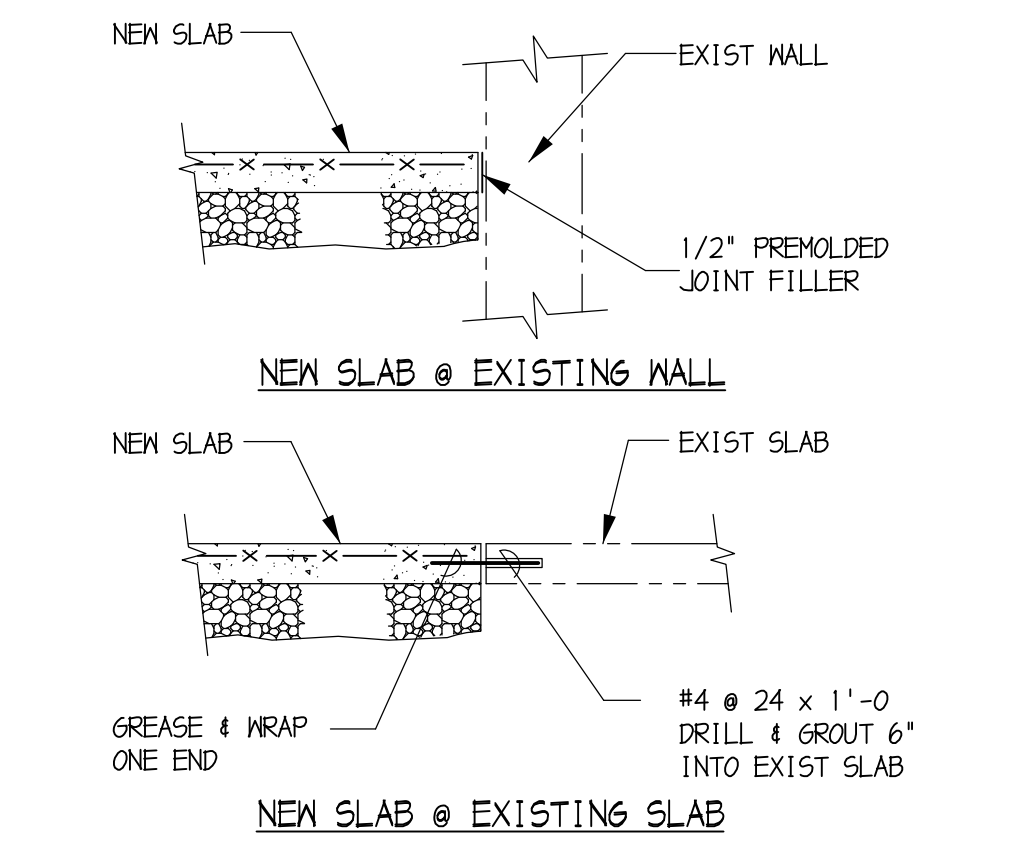
8
S6.1 HOLD-DOWN @ MASONRY WALLS
3/4" = 1'-0"



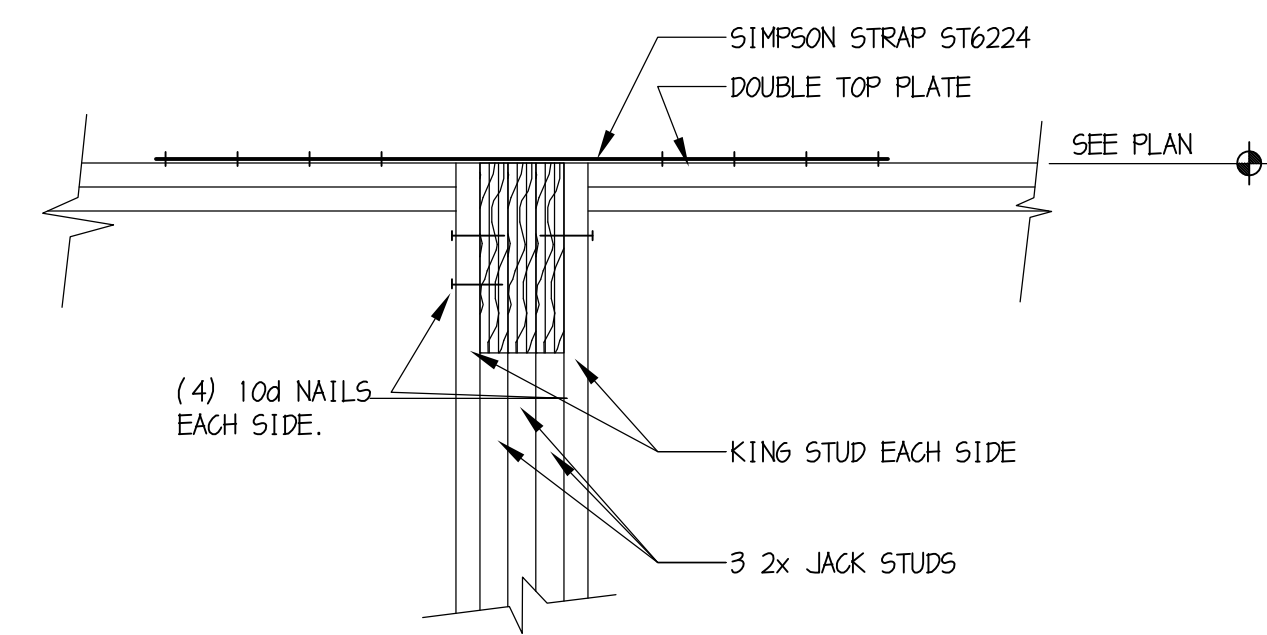
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S6.1 REIN LAP SPLICE DETAIL
1/2" = 1'-0"



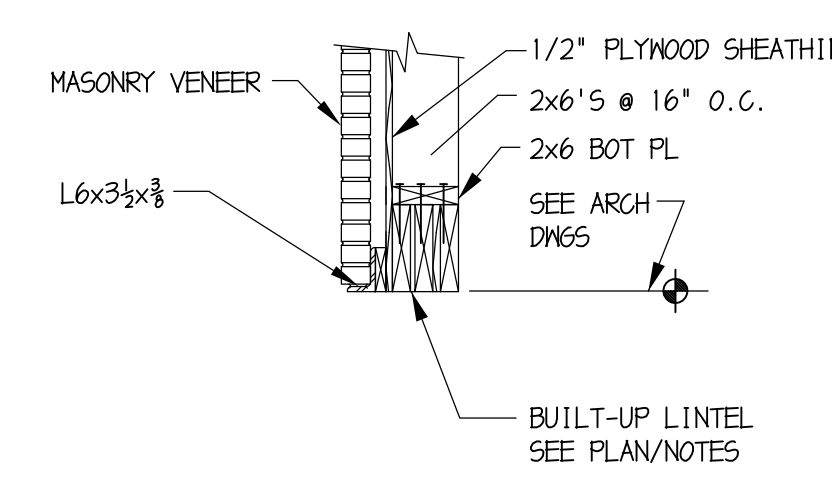
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S6.1 CONCRETE STAIR DETAIL
1/2" = 1'-0"



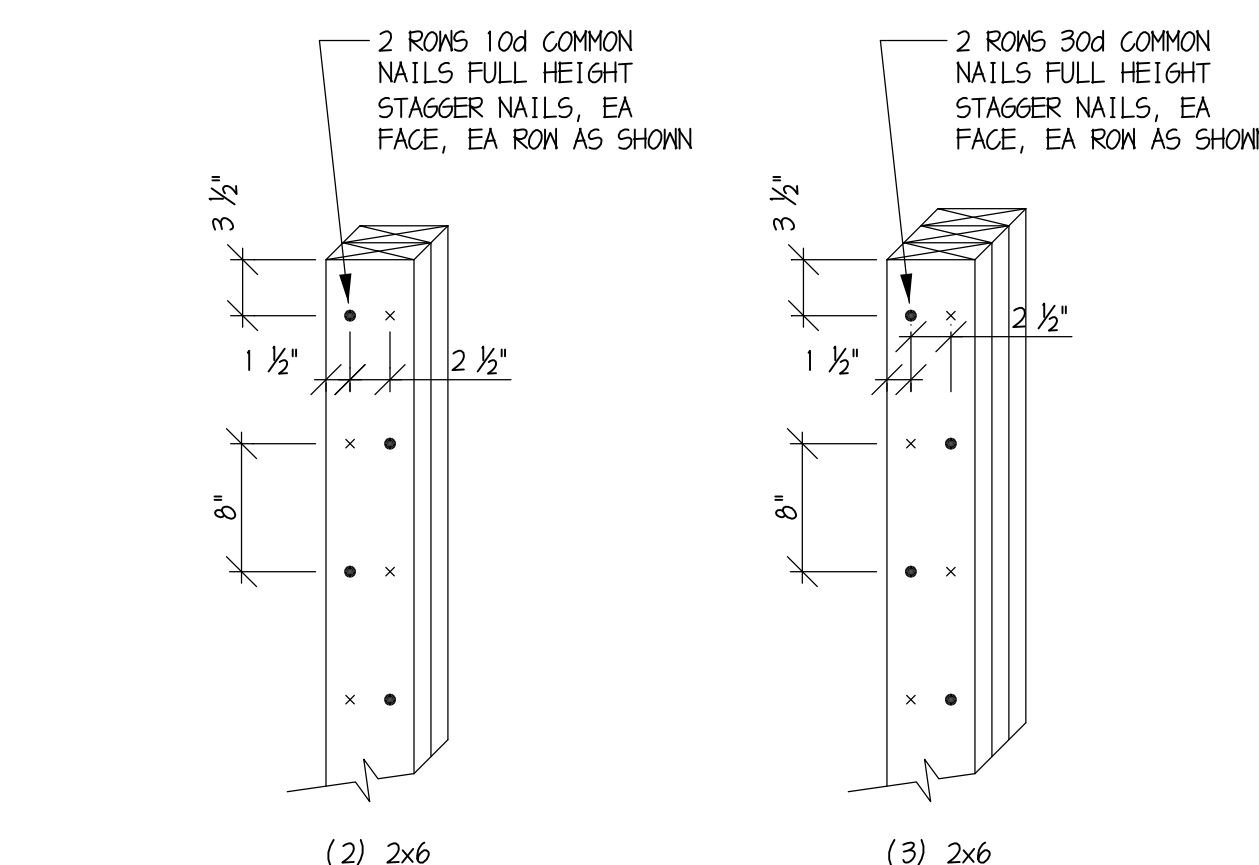
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S6.1 NEW SLAB/EXISTING INTERFACE
1/2" = 1'-0"



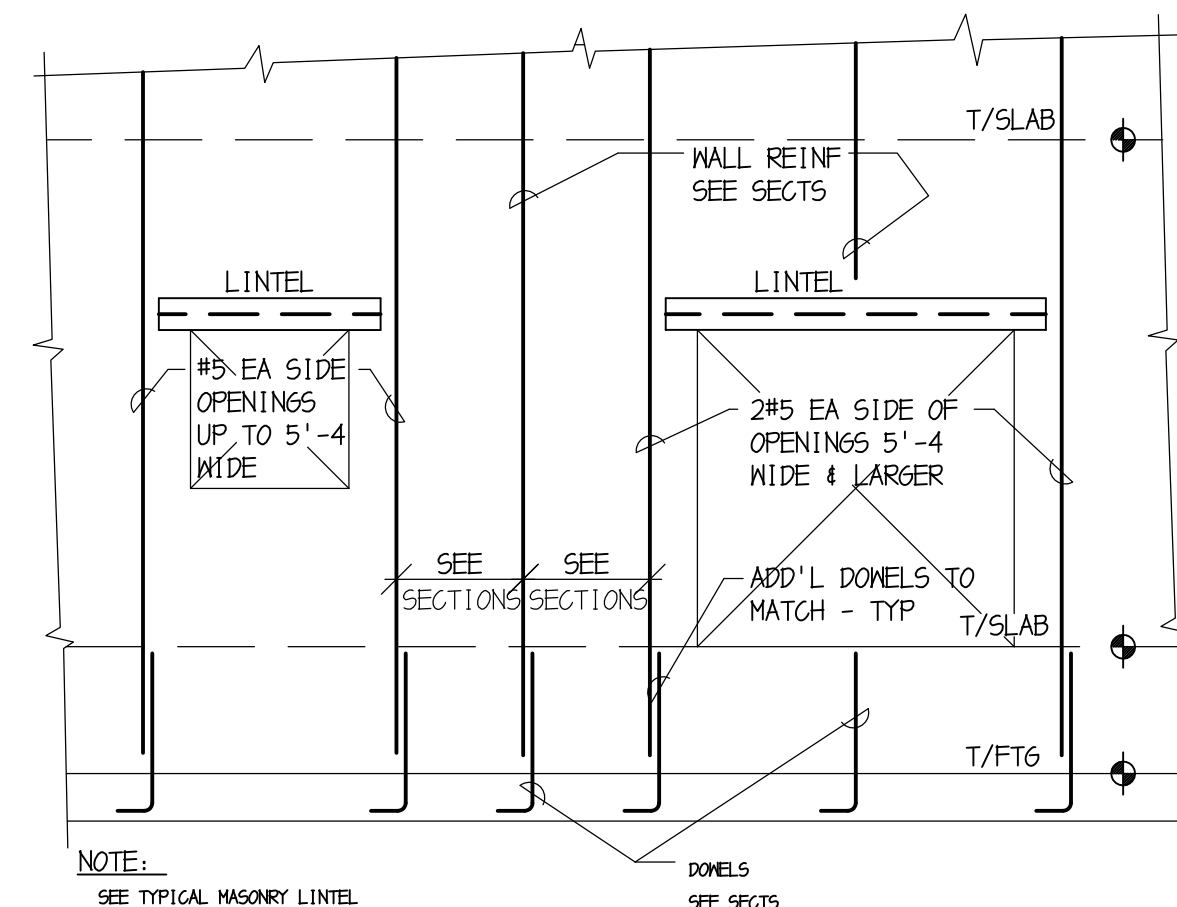
12
S6.1 BUILT-UP BEAM BEARING ON WOOD STUD WALL
NOT TO SCALE



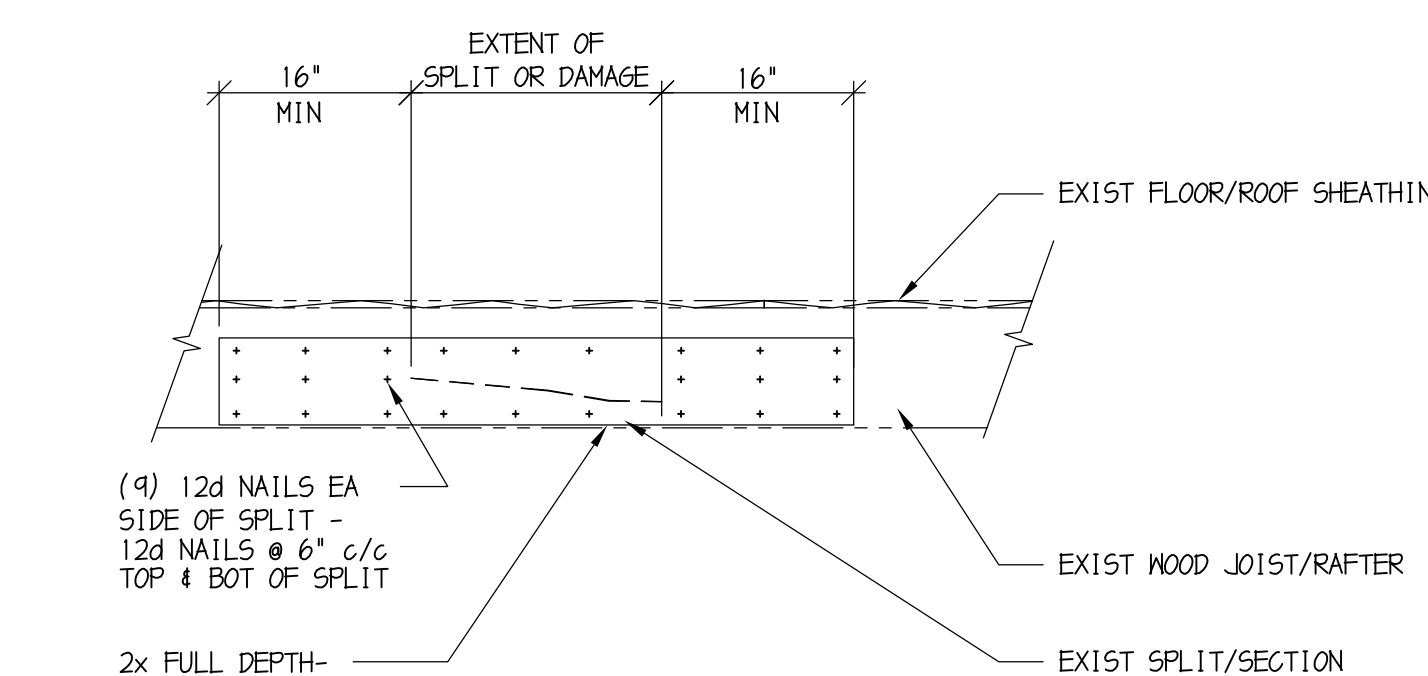
13
S6.1 EXTERIOR LINTEL DETAIL
3/4" = 1'-0"



14
S6.1 MULTIPLE MEMBER CONNECTIONS FOR STUDS
NOT TO SCALE



15
S6.1 REIN @ MASONRY WALL OPENINGS
NO SCALE



16
S6.1 EXIST SPLIT/DETERIORATED MEMBER REIN
3/4" = 1'-0"

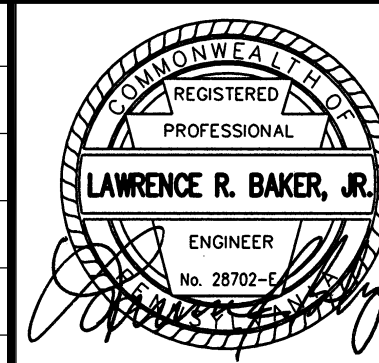
HEADER SCHEDULE			HEADER NOTES:
SPAN	WIDTH	INT. & EXT.	
UP TO 4'-0"	2x4	(2) 2x10 w/ (1) JACK (1) KING	1. AT WINDOW SILL LOCATIONS PROVIDE (2) 2x TOP PLATE. 2. ALL MULTIPLE JACK & KING STUDS SHALL BE FASTENED TOGETHER. 3. HEADER SCHEDULE APPLIES TO 2x BEARING WALLS. 4. REFER STRUCTURAL NOTES ON S-1.1 FOR NON-LOAD BEARING WALL HEADERS. 5. PROVIDE 2 JACK STUDS AND 2 KING STUDS AT HEADERS SHOWN ON PLAN.
GRTR THAN 4'-0" TO 6'-0"	3 1/2 x 9 1/2 PSL w/ (1) JACK (1) KING	5 1/2 x 9 1/2 PSL w/ (1) JACK (2) KING	
GRTR THAN 6'-0" TO 10'-0"	3 1/2 x 11 1/2 PSL w/ (1) JACK (1) KING	5 1/2 x 9 1/2 PSL w/ (2) JACK (2) KING	
GRTR THAN 10'-0"	SEE PLAN	SEE PLAN	

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Centerville, Maryland PROJECT NO. L8154

Shippensburg University
PROJECT NO. SU - 2010/6B

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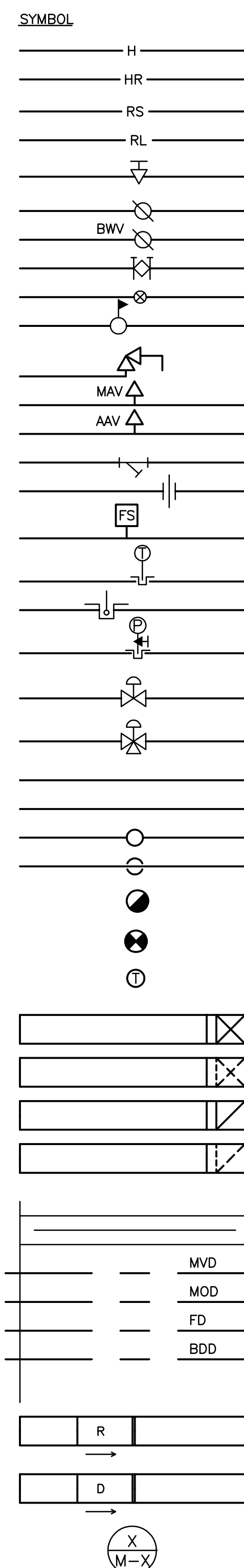
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Project 10116 Date 5/09/14
Drawn by BRK Checked by LRB
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TYPICAL DETAILS
S6.1

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

MECHANICAL LEGEND



SYMBOL	ABBREVIATION	DESCRIPTION
H	H	HEATING WATER SUPPLY
HR	HR	HEATING WATER RETURN
RS	RS	REFRIGERANT SUCTION
RL	RL	REFRIGERANT LIQUID
SV		SHUTOFF VALVE
CV		CHECK VALVE
BWV	BWV	BACK WATER VALVE
FMF		FLOW METER FITTING
BV		BALANCING VALVE
PRV		PRESSURE REDUCING VALVE
RV		RELIEF VALVE
MAV	MAV	MANUAL AIR VALVE
AAV	AAV	AUTOMATIC AIR VALVE
S		STRAINER
U		UNION
FS		FLOW SWITCH
T		THERMOMETER
TW	TW	THERMOMETER WELL
PG		PRESSURE GAUGE
TCV2	TCV	TEMPERATURE CONTROL VALVE (2-WAY)
TCV3	TCV	TEMPERATURE CONTROL VALVE (3-WAY)
PTU		PIPE TURNING UP
PTD		PIPE TURNING DOWN
TU		TEE TURNED UP
TD		TEE TURNED DOWN
DT		DEMOLITION TO THIS POINT
CE		CONNECT TO EXISTING
TS		THERMOSTAT
SDTU		SUPPLY DUCT TURNED UP
SDTD		SUPPLY DUCT TURNED DOWN
REU		RETURN, EXHAUST, OR OUTSIDE AIR DUCT TURNED UP
RED		RETURN, EXHAUST, OR OUTSIDE AIR DUCT TURNED DOWN
FD		FLEXIBLE DUCT CONNECTION
MVD	MVD	MANUAL VOLUME DAMPER
MOD	MOD	MOTOR OPERATED DAMPER
FD	FD	FIRE DAMPER
BDD	BDD	BACKDRAFT DAMPER
R		INCLINED DUCT RISE
D		INCLINED DUCT DOWN
X		DETAIL DESIGNATION

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET MINUTE
CX	CONNECT TO EXISTING
DIFF	DIFFUSER
DB	DRY BULB
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EX	EXISTING (TO REMAIN UNLESS NOTED OTHERWISE)
EXH	EXHAUST
GR	GRILLE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSAND BTU/HR
OA	OUTSIDE AIR
RA	RETURN AIR
REG	REGISTER
RX	REMOVE EXISTING
SA	SUPPLY AIR
V-PH	VOLT-PHASE

GENERAL NOTES (APPLY TO WORK PROVIDED UNDER DIVISION 20):

- LOCATIONS OF DUCTWORK, AIR DEVICES, TEMPERATURE CONTROLS AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL LAYOUTS, EQUIPMENT CUTS AND PLUMBING/ELECTRICAL/STRUCTURAL PLANS. NO WORK SHALL BE INSTALLED UNTIL THE LOCATIONS HAVE BEEN VERIFIED. BRING ANY DISCREPANCY TO ARCHITECTS ATTENTION PRIOR TO MANUFACTURE OF DUCTWORK OR INSTALLATION.
- NORTH ARROWS ON THESE DRAWINGS INDICATE PLAN NORTH ONLY.
- INSTALL A MANUAL VOLUME DAMPER IN EACH BRANCH DUCT THAT RUNS TO (1) AIR DEVICE.
- PROVIDE PIPE SLEEVE FOR PIPING PENETRATIONS THROUGH RATED SLAB OR WALLS.
- CLEARANCES FOR CONDENSING UNITS SHALL BE BASED ON MANUFACTURER'S SPECIFICATIONS.
- SEAMS IN DUCTWORK SHALL BE FLAT SLIP SEAMS.
- IN AREAS WHERE WORK IS INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES OR WITHIN TRADES COVERED BY THIS DIVISION OF THE SPECIFICATIONS PREPARE LARGER SCALE DRAWINGS CONSISTING OF PLANS AND SECTIONS TO SHOW HOW WORK IS TO BE INSTALLED IN RELATION TO WORK OF OTHER TRADES.
- BEFORE BEGINNING WORK ON THE HEATING WATER SYSTEM, MEASURE THE FLOW RATE AT EACH HEATER/COIL THAT IS SERVED BY THE HEATING WATER DISTRIBUTION. PROVIDE A REPORT FOR APPROVAL BEFORE STARTING DEMOLITION WORK.

GENERAL DEMOLITION NOTES (APPLY TO WORK PROVIDED UNDER DIVISION 20):

- DEMOLITION WORK IS GENERALLY INDICATED AS PART OF THESE NOTES AND THE NOTES INDICATED ON THE ARCHITECTURAL DEMOLITION PLANS.
- VERIFY THAT EXISTING PIPING, EQUIPMENT, ETC. THAT IS CALLED FOR REMOVAL IS NO LONGER IN SERVICE BEFORE BEGINNING DEMOLITION.
- THE DEMOLITION NOTES INDICATE THE MAIN COMPONENTS OF SYSTEMS AND EQUIPMENT THAT SHALL BE REMOVED UNDER THIS CONTRACT. IF SYSTEMS AND EQUIPMENT ARE FOUND DURING CONSTRUCTION THAT THE OWNER AUTHORIZES FOR REMOVAL BUT HAVE NOT BEEN SPECIFICALLY CALLED FOR DEMOLITION, REMOVE THE SYSTEMS AND EQUIPMENT.
- WHEN THE WORK SPECIFIED HEREUNDER CONNECTS TO ANY EXISTING EQUIPMENT, PIPING, ETC., PERFORM NECESSARY ALTERATIONS, CUTTING, FITTING, ETC. OF THE EXISTING WORK AS MAY BE NECESSARY OR REQUIRED TO MAKE SATISFACTORY CONNECTIONS BETWEEN THE NEW AND EXISTING WORK AND LEAVE THE COMPLETE WORK IN A FINISHED AND WORKMANLIKE CONDITION.
- WHEN THE WORK SPECIFIED HEREUNDER OTHER DIVISIONS NECESSITATES RELOCATION OF EXISTING EQUIPMENT, PIPING, ETC. PERFORM WORK AND MAKE NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION.
- REMOVE FROM THE PREMISES AND DISPOSE OF EXISTING PIPING, MATERIAL, FIXTURES, EQUIPMENT, ETC. NOT REQUIRED FOR RE-USE OR RE-INSTALLATION.
- DELIVER ON THE PREMISES WHERE DIRECTED EXISTING MATERIAL AND EQUIPMENT WHICH IS REMOVED AND IS DESIRED BY THE OWNER OR IS INDICATED TO REMAIN THE PROPERTY OF THE OWNER.
- OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY HIM FROM THE PREMISES.
- PIPING ABANDONED IN CONCRETE SLABS, WALLS, OR OTHER INACCESSIBLE LOCATIONS SHALL BE LEFT EMPTY.

HOT WATER BASEBOARD SCHEDULE

BB NO.	AREA SERVED	HEATING CAPACITY										MFR. / MODEL	
		EAT (F)	EWT (F)	LWT (F)	TOTAL MBH	GPM	MAX WPD (FT. HD.)	ROWS	FINS PER FT	TUBE (IN)	ENCL HT (IN)		LENGTH (FT)
1	ENTRY	70	180	160	9.2	1	3	1	50	1	14	8	VULCAN VC SERIES
2	PANTRY	70	180	160	7	1	3	1	50	1	14	6	VULCAN VC SERIES
3	BREAKFAST	70	180	160	9.2	1	3	1	50	1	14	8	VULCAN VC SERIES
4	SUNROOM	70	180	160	4.6	0.5	3	1	50	1	14	4	VULCAN VC SERIES
5	SUNROOM	70	180	160	4.6	0.5	3	1	50	1	14	4	VULCAN VC SERIES
6	SUNROOM	70	180	160	4.6	0.5	3	1	50	1	14	4	VULCAN VC SERIES
7	SUNROOM	70	180	160	4.6	0.5	3	1	50	1	14	4	VULCAN VC SERIES
8	SUNROOM	70	180	160	4.6	0.5	3	1	50	1	14	4	VULCAN VC SERIES

PUMP SCHEDULE

DESIG	LOCATION	SERVICE	FLUID	GPM	HEAD (FT)	RPM	ELECTRIC HP-V/PH/Hz	TYPE	MANUFACTURER
P-1	BOILER ROOM	BASEBOARD RADIANT HEAT	WATER	32	40	VAR	1.5-120/1/60	IL	TACO SKV
P-2	BOILER ROOM	BASEBOARD RADIANT HEAT	WATER	25	25	VAR	1.5-120/1/60	IL	TACO SKV

TYPE:
 IL - IN-LINE
 BM - BASE MOUNTED
 HS - HORIZONTAL SPLIT CASE
 VIL - VERTICAL IN-LINE
 CC - CLOSE COUPLED

NOTES:
 1. STANDBY
 2. PARALLEL OPERATION
 3. LEAD/ LAG
 4. DUPLEX UNIT
 5. VARIABLE FREQUENCY DRIVE

SPLIT SYSTEM HEAT PUMP SCHEDULE

SSHP NO.	SERVING	CFM	S.P. (N.W.C.)	MOTOR HP, VOLTS-PH	COOLING			HEATING			OUTDOOR UNIT ELECTRIC		MANUFACTURER - CARRIER OUTDOOR UNIT / INDOOR UNIT	
					EAT DB/WB (F)	AMB. AIR (F)	SENS. CAP. (MBH)	TOT. CAP. (MBH)	EAT (F)	TOT. CAP. (MBH)	MCA (A)	MOCP (A)		VOLTS-PH
1	LIVING/SUNROOM	1,800	0.70	3/4, 230-1	75/62.5	95	37.2	52.9	70.0	57.0	34.5	50.0	230-1	25HCB5060/FX4C060
2	KITCHEN/DINING	1,400	0.60	1/2, 230-1	75/62.5	95	29.7	31.1	70.0	42.0	29.2	45.0	230-1	25HCB5042/FX4C042
3	2ND/3RD FL BEDROOMS	1,800	0.70	3/4, 230-1	75/62.5	95	37.2	52.9	70.0	57.0	34.5	50.0	230-1	25HCB5060/FX4C060
4	MASTERBEDROOM	600	0.50	1/3, 230-1	75/62.5	95	12.5	16.1	70.0	17.7	11.9	20.0	230-1	25HCB5018/FX4C018

NOTE:
 1. REFRIGERANT PIPE SIZES SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
 2. COOLING AND HEATING CAPACITIES LISTED ARE CALCULATED REQUIRED CAPACITIES.
 3. SPLIT SYSTEM HEAT PUMP MUST HAVE A MINIMUM SEER RATING OF 15.

DUCT MOUNTED HEATING COIL SCHEDULE

DESIG. NO.	SERVING	REQ. CAP. MBH	FLOW RATE GPM	WPD FT	AIRFLOW RATE CFM	APD SIZE IN
C-2	KITCHEN MAKE UP	28.1	2.9	3.3	600	0.11

SPLIT SYSTEM CONDENSING UNIT SCHEDULE

CU #	SERVING	CFM	COOLING			OUTDOOR UNIT ELECTRIC		MANUFACTURER		
			EAT DB/WB (F)	AMB. AIR (F)	SENS. CAP. (MBH)	TOT. CAP. (MBH)	MCA (A)		MOCP (A)	VOLTS-PH
1	KITCHEN MAKEUP	600	80/67	95	20.5	32.9	26	40	230-1	AAON CBB036

NOTE:
 REFRIGERANT PIPE SIZES SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

EXHAUST FAN SCHEDULE

DESIG.	SERVING	CFM	E.S.P. (IN.WC.)	TYPE	DRIVE	ELECTRIC W / HP, VOLTS-PH	MANUFACTURER	ACCESSORIES
EF-1	GUESS BATHROOM	60	0.25	CEILING	DIRECT	15W, 115-1	NuTone	A, B, C, Q

ACCESSORIES:
 A: DISCONNECT SWITCH
 B: BACKDRAFT DAMPER
 C: PREFAB ROOF CURB
 D: BIRDSCREEN
 E: ACOUSTICAL LINING
 F: HANGING BRACKET WITH VIBRATION ISOLATION
 G: WALL MOUNTED PUSH BUTTON SWITCH / STARTER
 H: WALL MOUNTED SWITCH (TIMER 0-4 HOUR)
 I: WALL MOUNTED THERMOSTAT
 J: DISCHARGE HOOD
 K: INTERLOCK WITH ROOM LIGHT SWITCH
 L: WL WALL LOUVER DISCHARGE
 M: RFC, ROOF CAP (FLAT ROOF)
 N: WALL MOUNTING COLLAR
 O: MOTOR SIDE FAN GUARD
 P: 2" WASHABLE ALUMINUM FILTER
 Q: DUCT ADAPTER
 R: EXHAUST GRILLE
 S: UL 762
 RL: ROOF CAP (PITCHED ROOF)

NOTE:
 1. FANS SHALL BE LISTED AND LABELED.
 2. FANS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE

MECHANICAL DRAWING LIST:

MO.1	MECHANICAL COVER SHEET
DM1.1	DEMOLITION FLOOR PLANS - MECHANICAL
DM1.2	DEMOLITION FLOOR PLANS - MECHANICAL PIPING
M1.1	FLOOR PLANS - MECHANICAL
M1.2	FLOOR PLANS - MECHANICAL PIPING
M3.1	MECHANICAL DETAILS & ATC



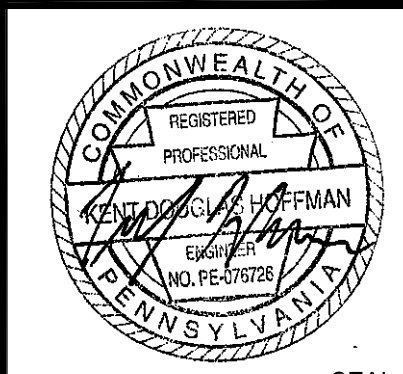
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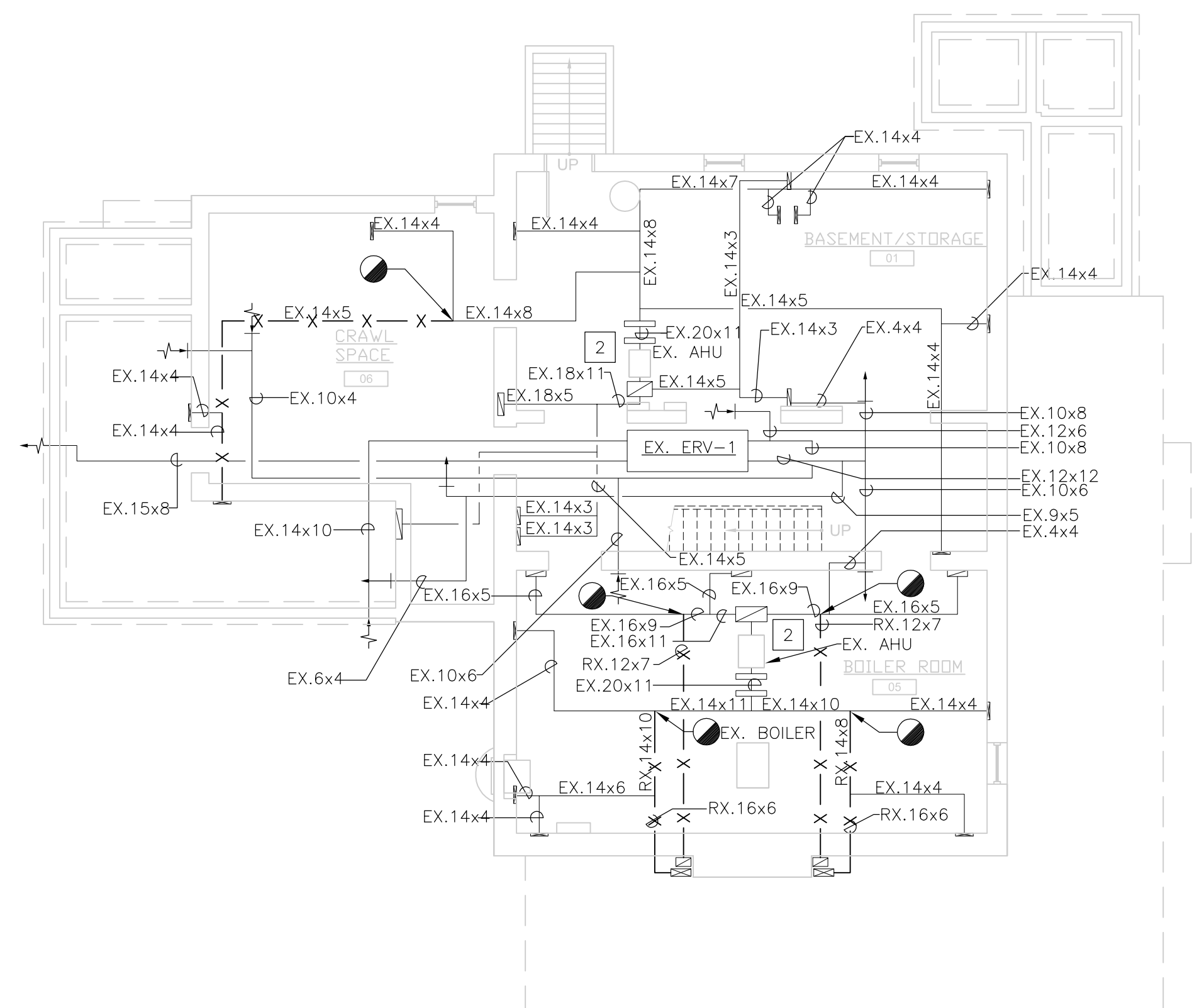
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Rev	Description	By	Date
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COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:	Drawing Number		
Professional:	MECHANICAL COVER SHEET		
Consultant:	MO.1 1 OF 6		
Authorized by:			

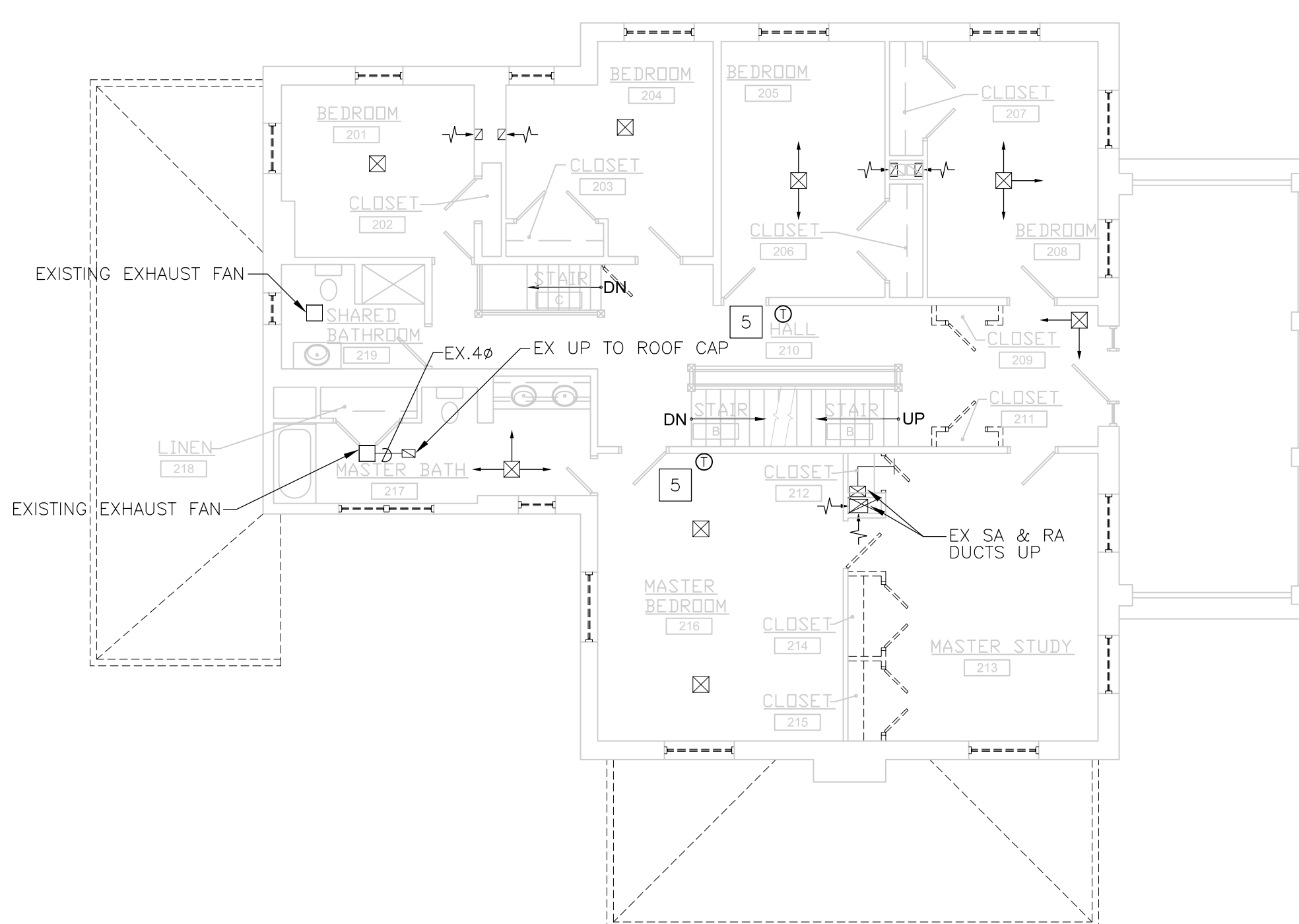
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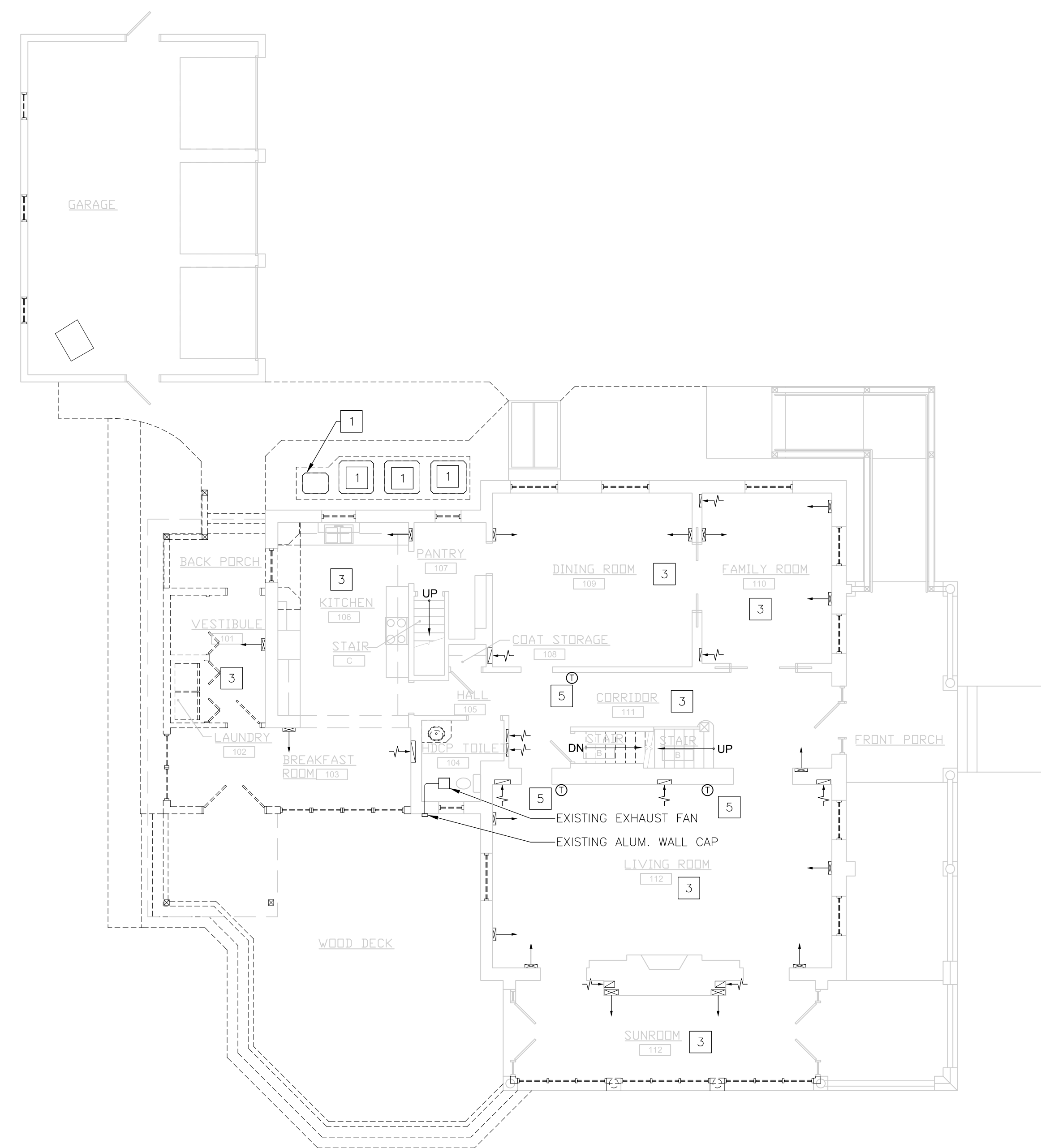




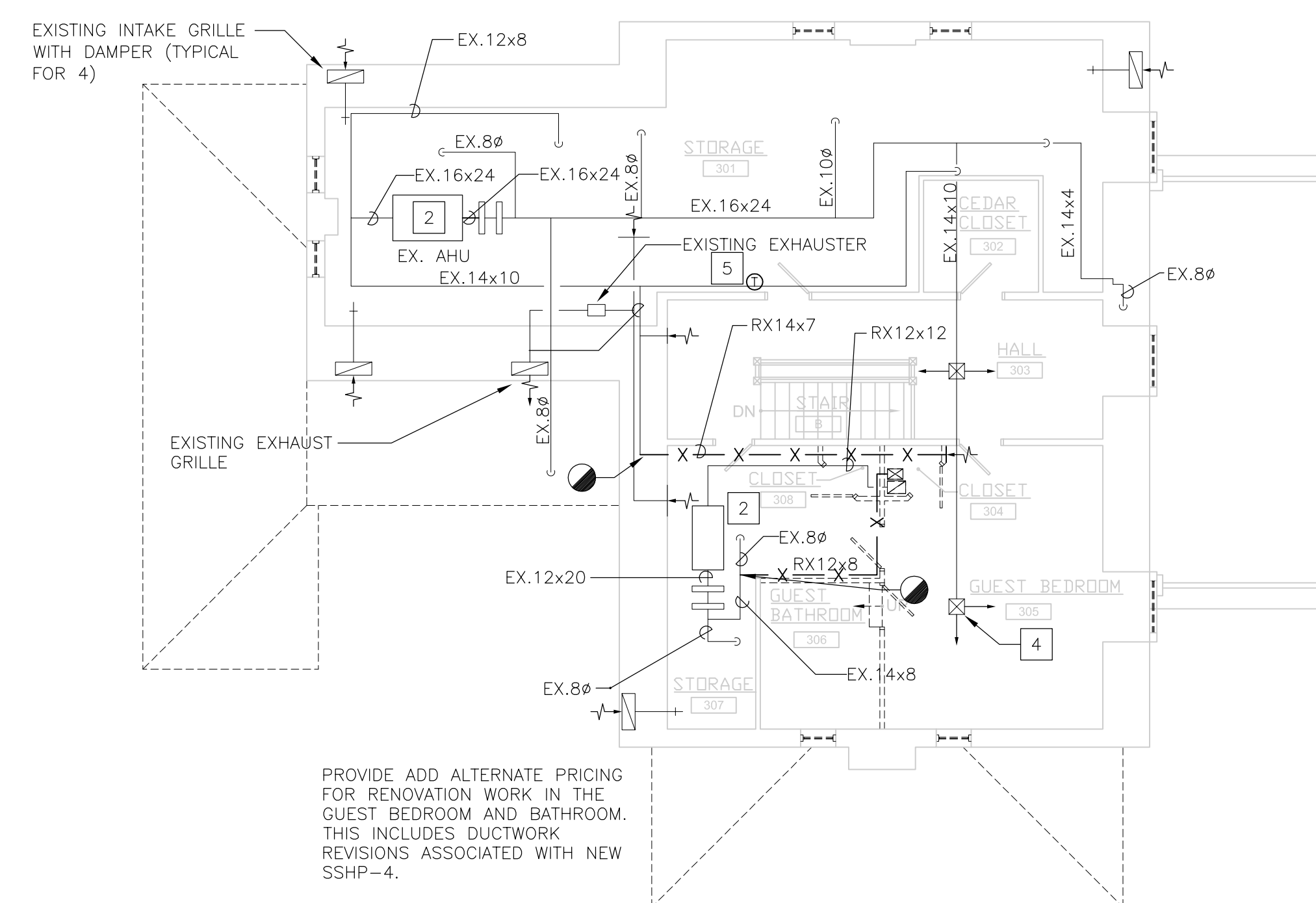
① BASEMENT DEMOLITION PLAN - HVAC
SCALE: 1/8" = 1'-0"



③ SECOND FLOOR DEMOLITION PLAN - HVAC
SCALE: 1/8" = 1'-0"



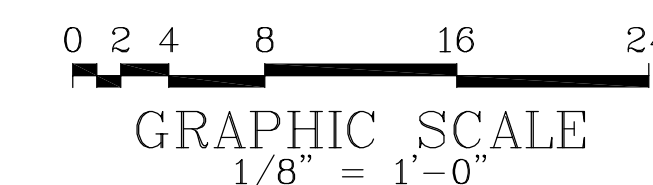
② FIRST FLOOR DEMOLITION FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"



④ THIRD FLOOR DEMOLITION PLAN - HVAC
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES (APPLY TO THIS DRAWING WHERE INDICATED):

- 1 REMOVE EXISTING OUTDOOR HEAT PUMP AND ASSOCIATED REFRIGERANT LINES.
- 2 REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED PIPING, WIRING, ETC.
- 3 REMOVE EXISTING FLOOR AIR DEVICES IN THIS AREA.
- 4 REMOVE EXISTING SUPPLY AIR DEVICE.
- 5 REMOVE EXISTING THERMOSTAT AND REPLACE WITH NEW EMS THERMOSTAT.



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MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

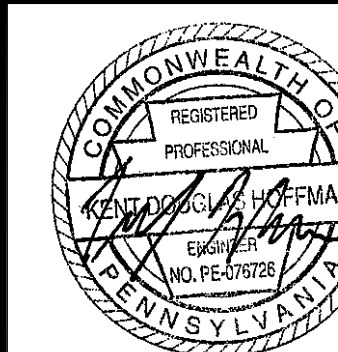


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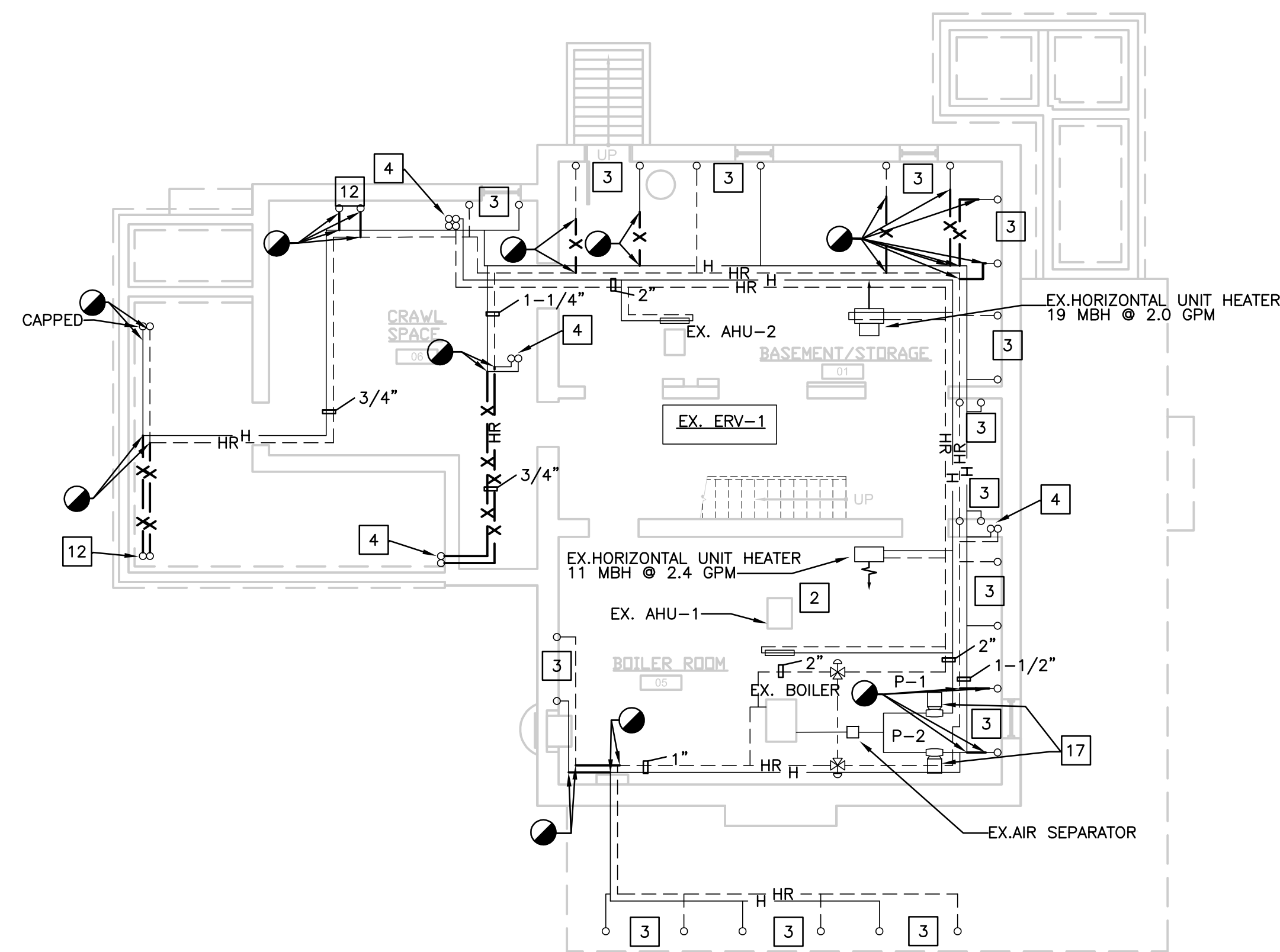
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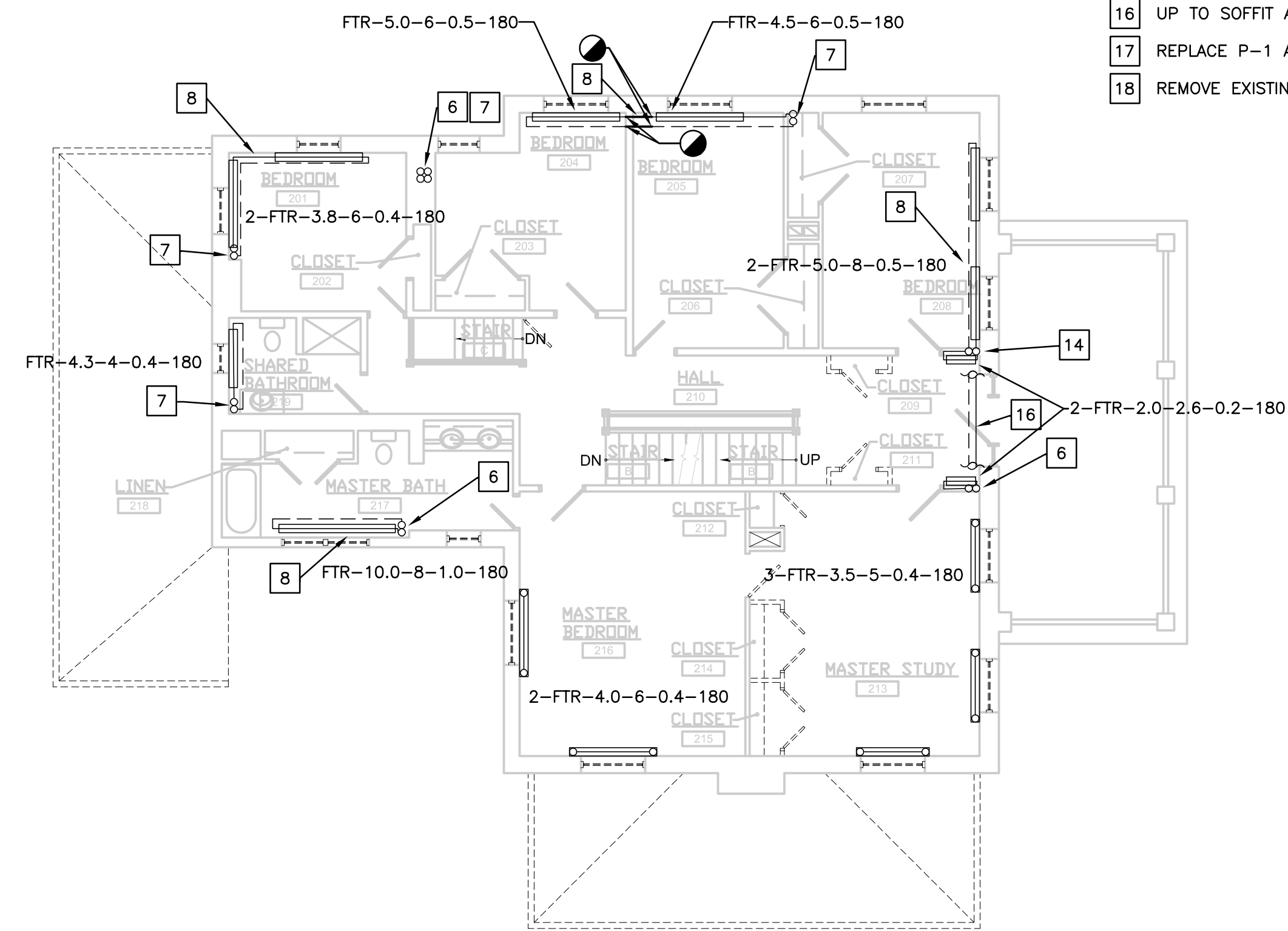


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COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:		Date	
Professional:		Checked by	
Consultant:		Drawing Number	
Authorized by:		DEMOLITION OVERALL FLOOR PLANS - MECHANICAL	

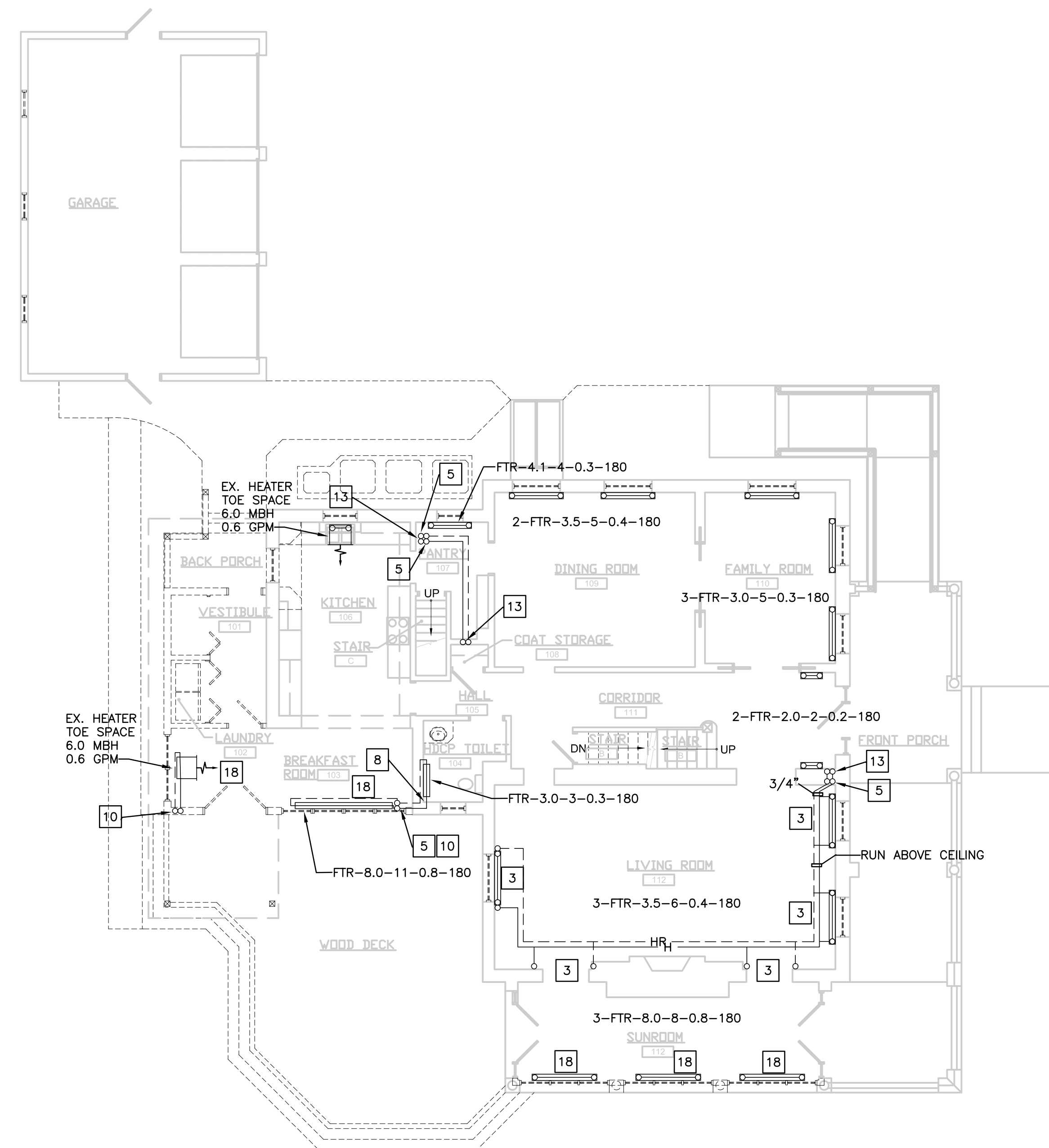
DM1.1
2 OF 6



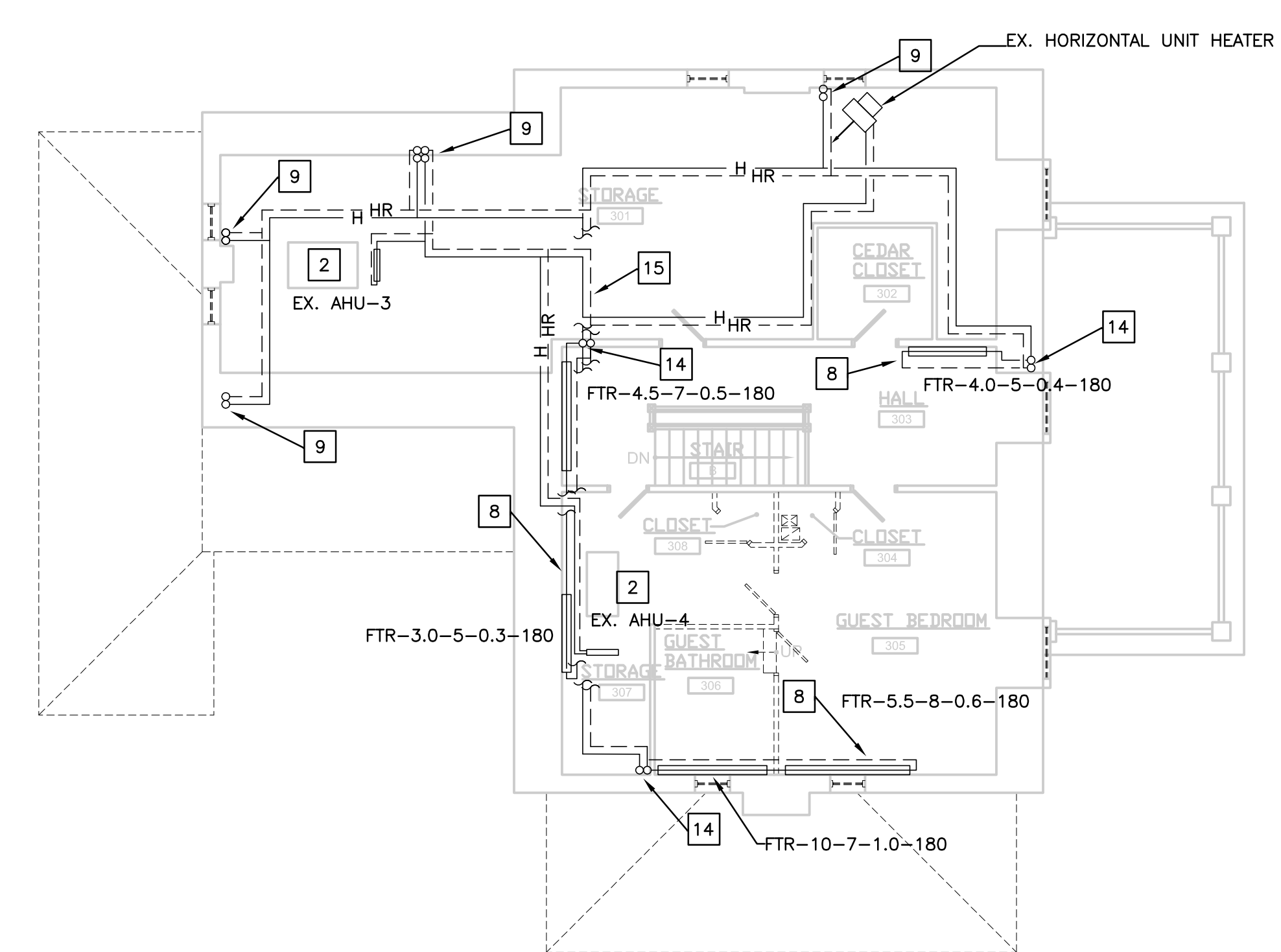
1 BASEMENT DEMOLITION PLAN - PIPING
SCALE: 1/8" = 1'-0"



3 SECOND FLOOR DEMOLITION PLAN - PIPING
SCALE: 1/8" = 1'-0"

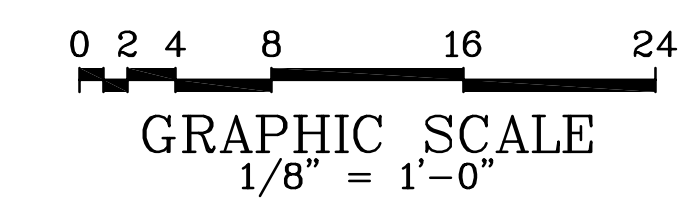


2 FIRST DEMOLITION FLOOR PLAN - PIPING
SCALE: 1/8" = 1'-0"



4 THIRD FLOOR DEMOLITION PLAN - PIPING
SCALE: 1/8" = 1'-0"

- DEMOLITION NOTES (APPLY TO THIS DRAWING WHERE INDICATED):**
- 1 REMOVE EXISTING OUTDOOR HEAT PUMP AND ASSOCIATED REFRIGERANT LINES.
 - 2 REMOVE EXISTING AIR HANDLING UNIT.
 - 3 UP TO RADIATION
 - 4 UP TO FIRST FLOOR
 - 5 UP TO SECOND FLOOR
 - 6 DN. TO FIRST FLOOR
 - 7 UP THIRD FLOOR
 - 8 RUN IN ENCLOSURE
 - 9 DN. TO SECOND FLOOR
 - 10 DN. TO CRAWL SPACE
 - 11 RADIATION ENCLOSURE
 - 12 UP TO TOE-SHAPE HEATER
 - 13 DN. TO BASEMENT
 - 14 DN. TO RADIATION
 - 15 RUN AT CEILING
 - 16 UP TO SOFFIT AT CEILING
 - 17 REPLACE P-1 AND P-2 WITH VARIABLE FLOW PUMPS
 - 18 REMOVE EXISTING HYDRONIC HEATER, CAP EXISTING HEATING WATER SUPPLY AND RETURN



RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257



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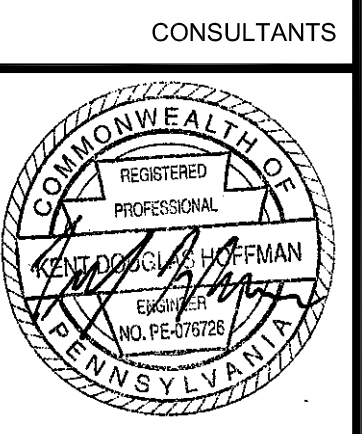
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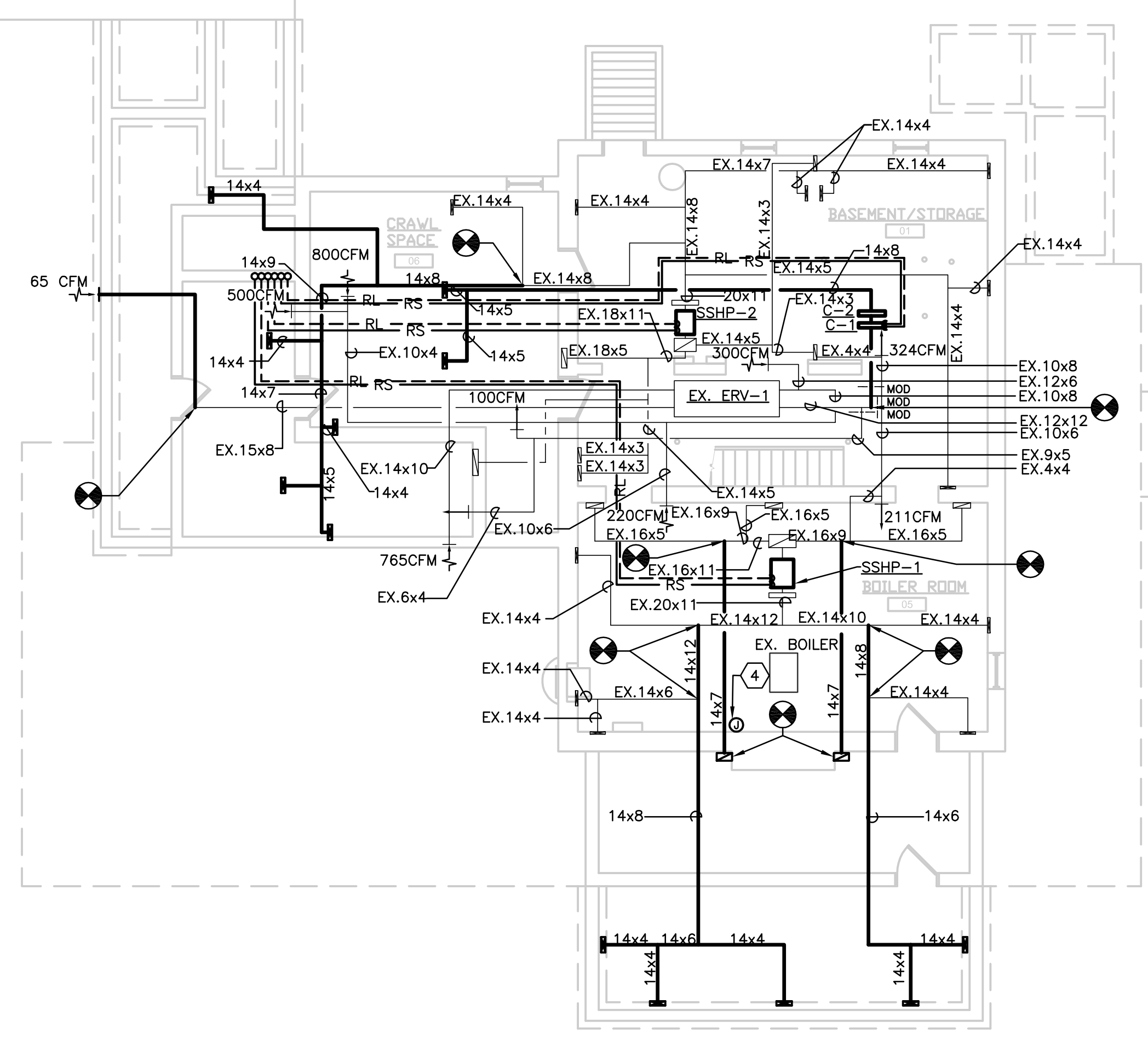
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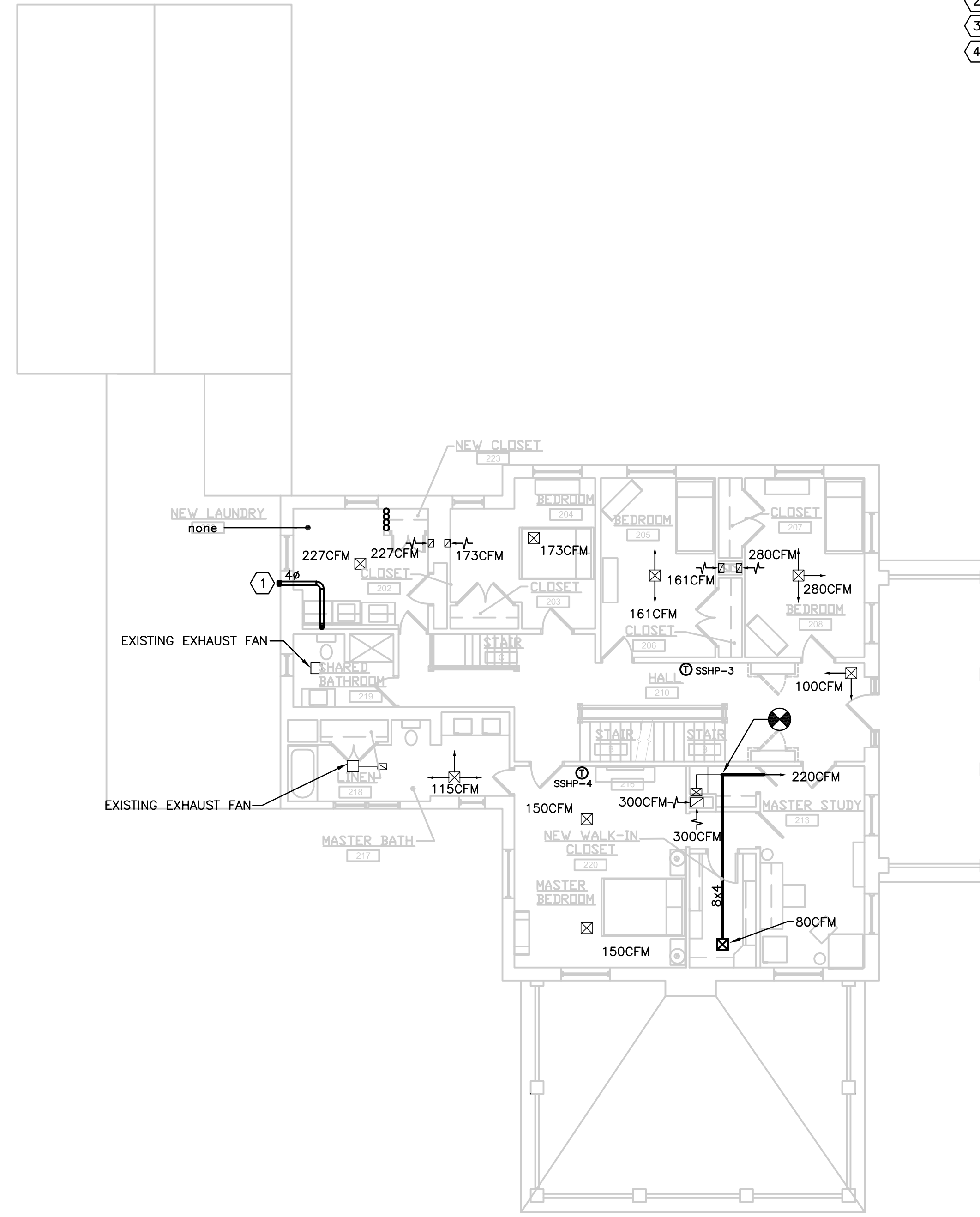
Project 10116 Date 5/09/14
Drawn by NN Checked by JAB
Drawing Number
DEMOLITION OVERALL
FLOOR PLANS - PIPING
DM1.2
2 OF 4

SPECIFIC NOTES (APPLY TO THIS DRAWING WHERE INDICATED):

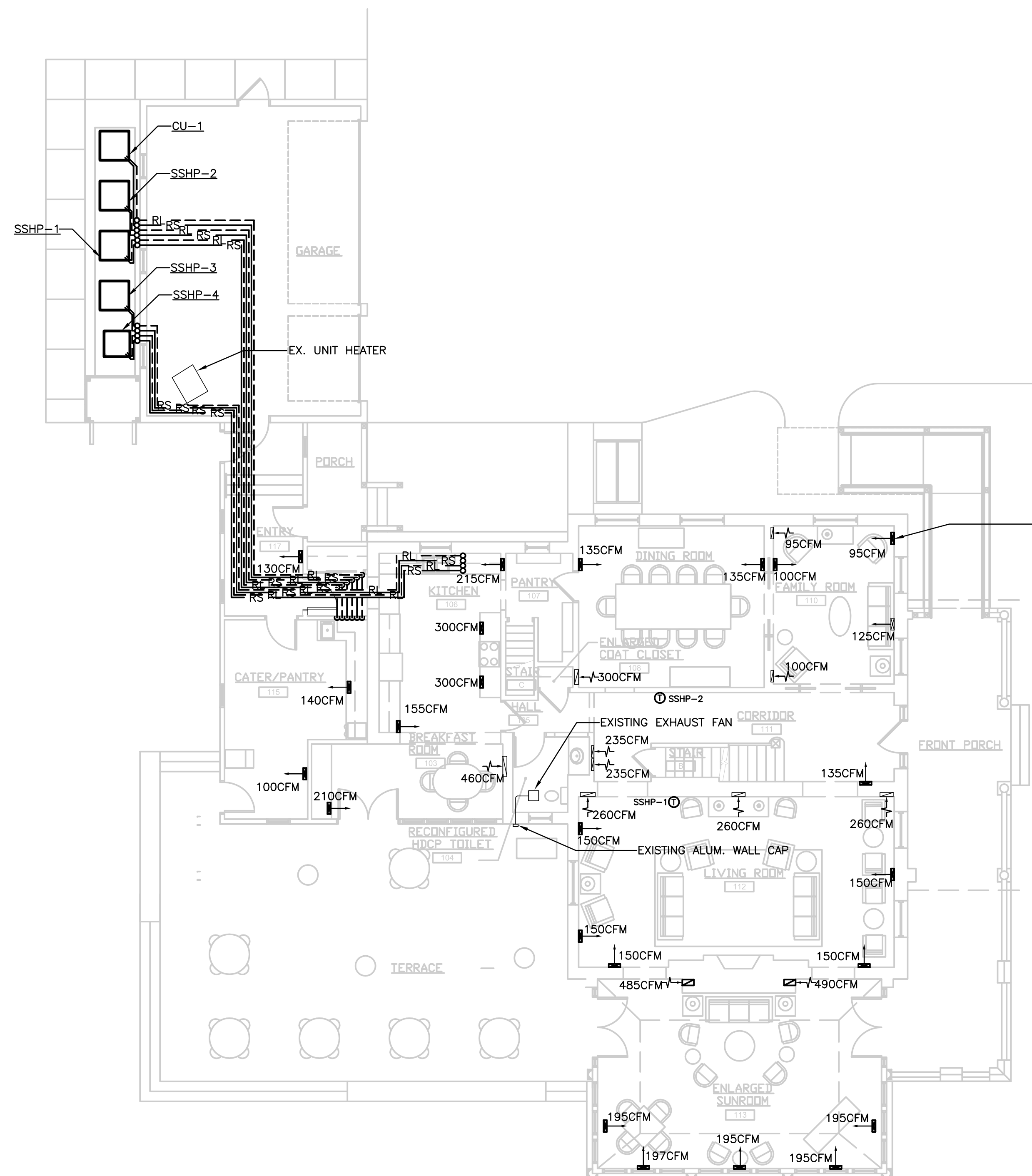
- ① 4" DRYER EXHAUST TO TERMINATE AT WALL CAP. CONFIRM LOCATION WITH ARCHITECT/OWNER.
- ② DUCT LOCATED IN BULKHEAD.
- ③ DUCT UP TO RUN IN ATTIC SPACE.
- ④ POWER SOURCE FOR NEW CONTROL WORK.



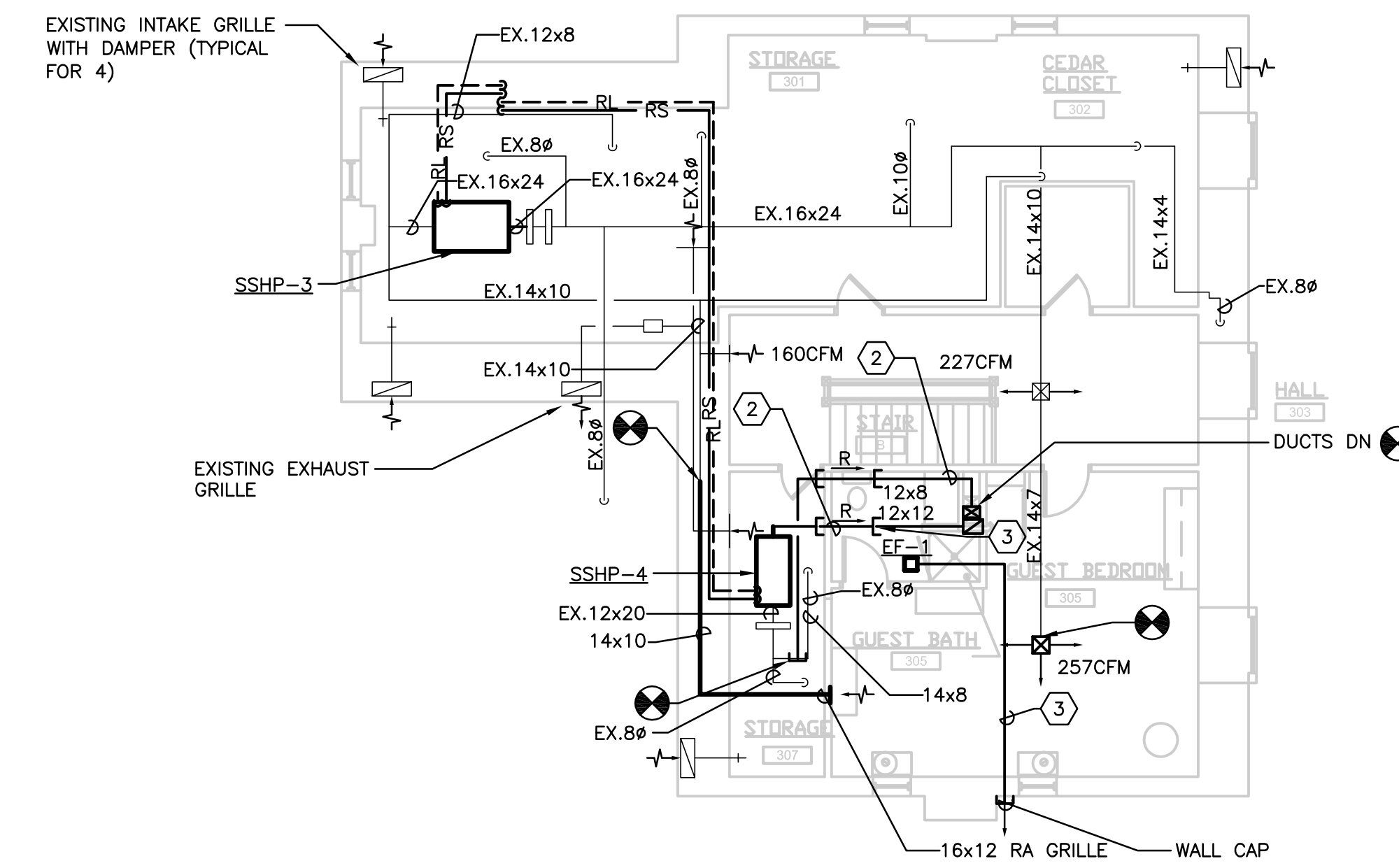
① BASEMENT FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"



③ SECOND FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"



② FIRST FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

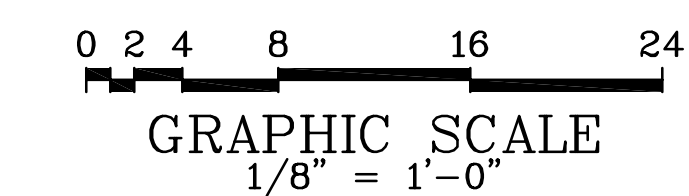


④ THIRD FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

PROVIDE NEW FLOOR MOUNTED AIR DEVICE TO MATCH EXISTING. CONNECT TO EXISTING SUPPLY AIR DUCTWORK (TYP.)

EXISTING INTAKE GRILLE WITH DAMPER (TYPICAL FOR 4)

PROVIDE ADD ALTERNATE PRICING FOR RENOVATION WORK IN THE GUEST BEDROOM AND BATHROOM. THIS INCLUDES DUCTWORK REVISIONS ASSOCIATED WITH NEW SSHP-4.



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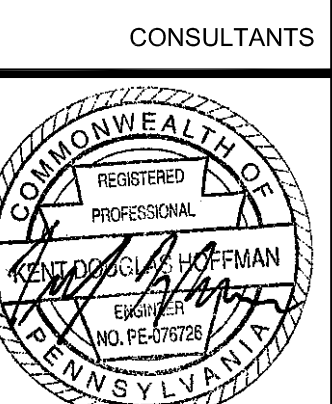
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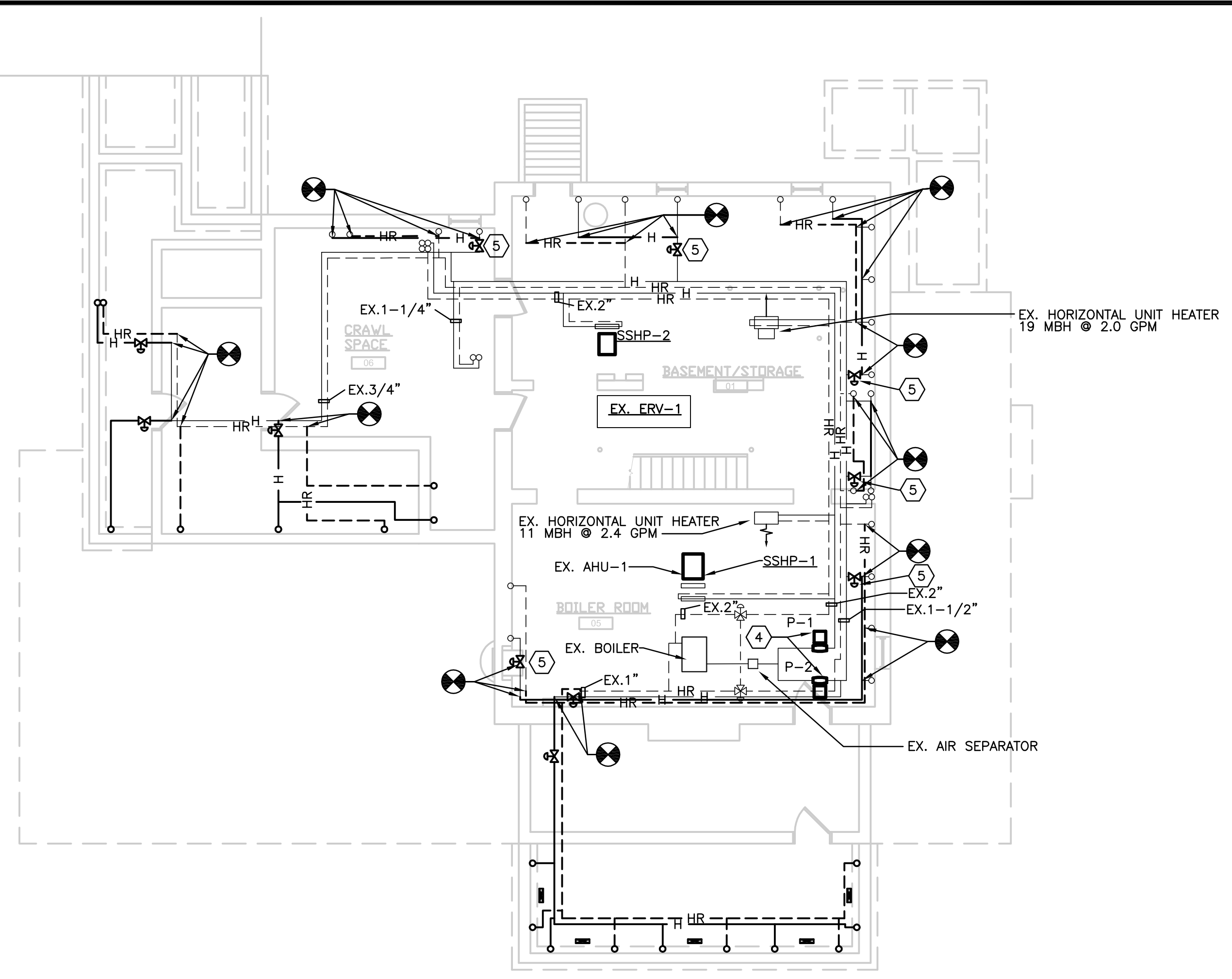
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**RENOVATIONS AND ADDITIONS TO
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SHIPPENSBURG, PENNSYLVANIA 17257**

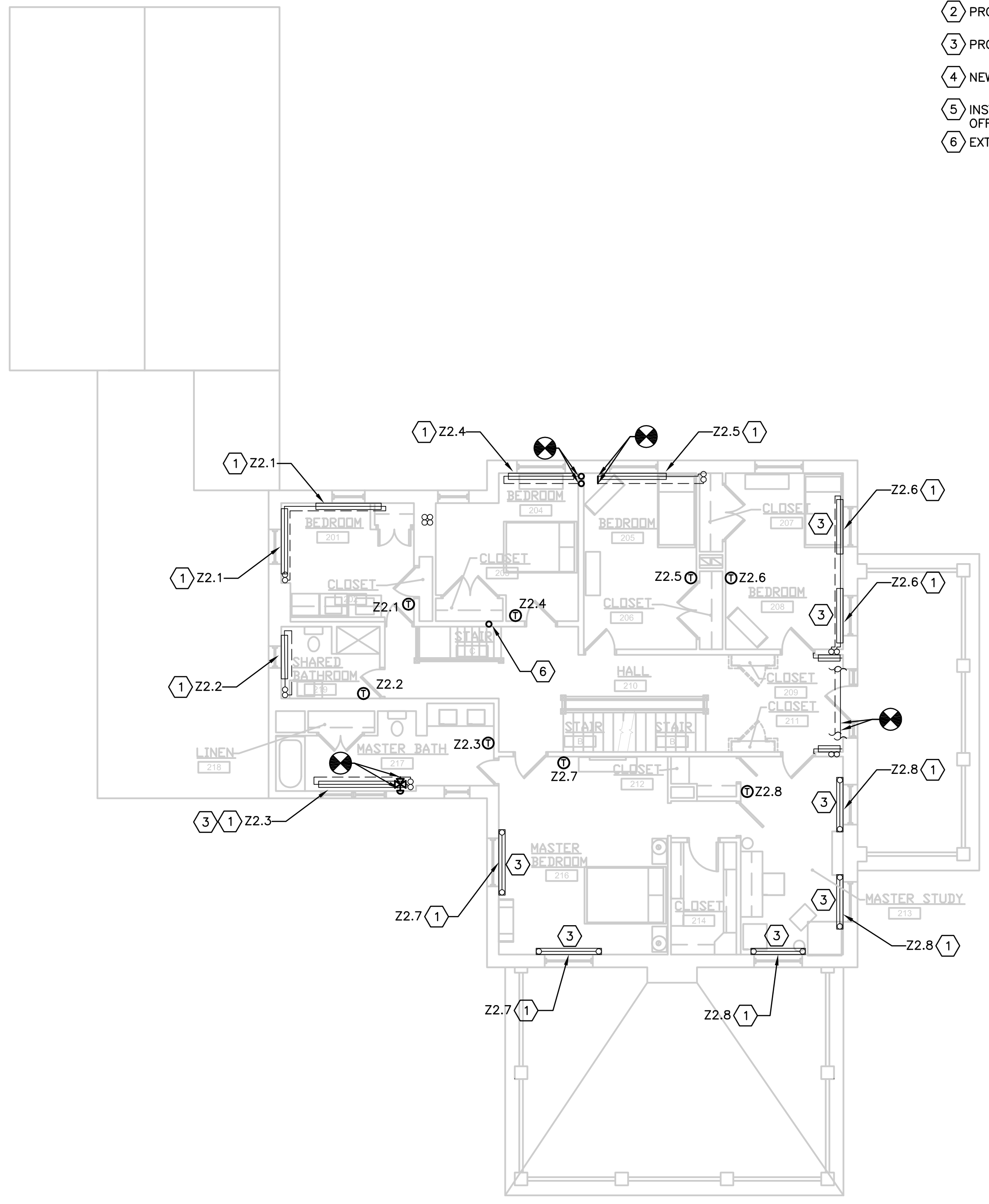
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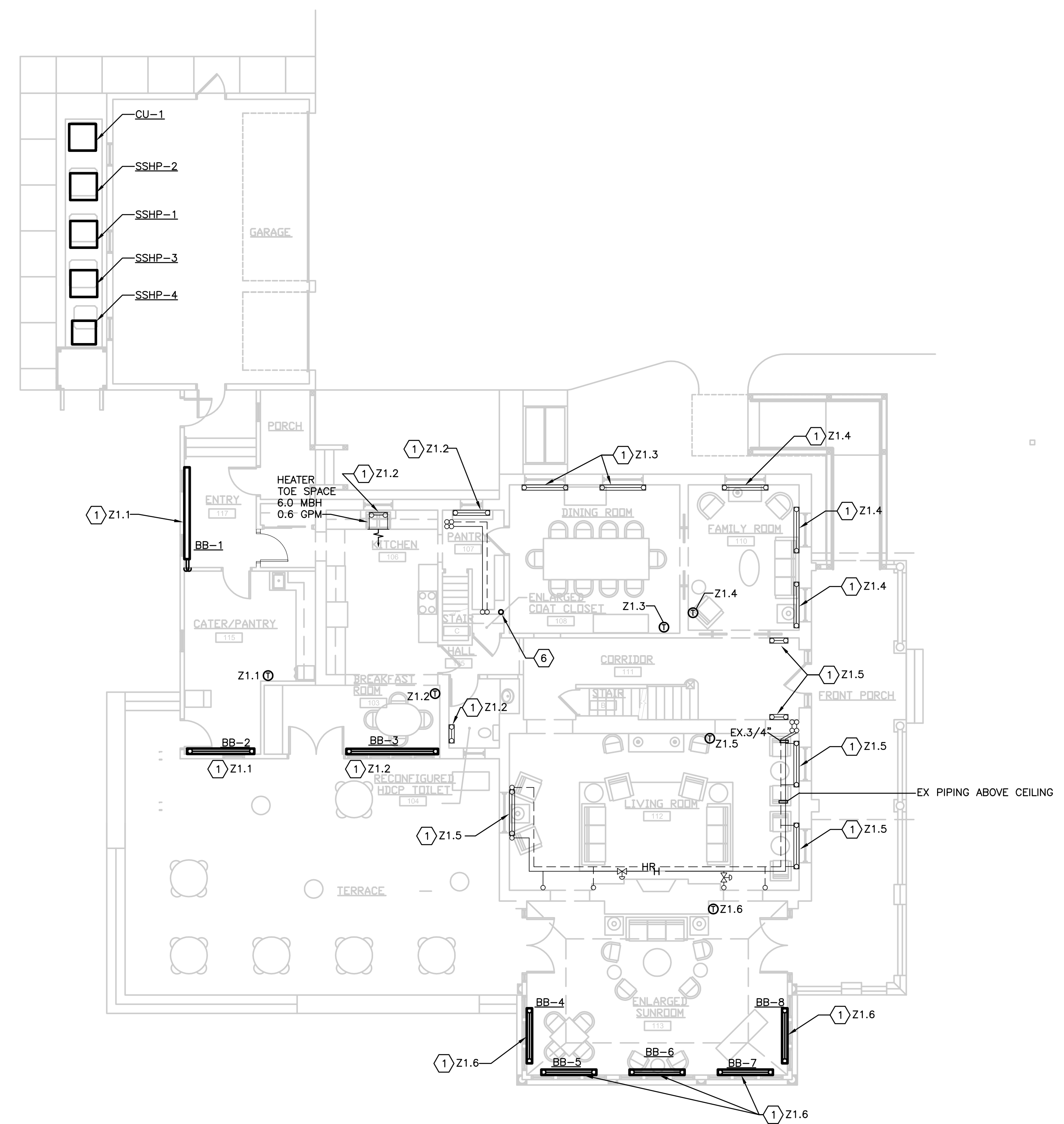
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 Drawn by: NN Checked by: JAB
 Drawing Number: FLOOR PLANS - MECHANICAL
 M1.1
 4 OF 6



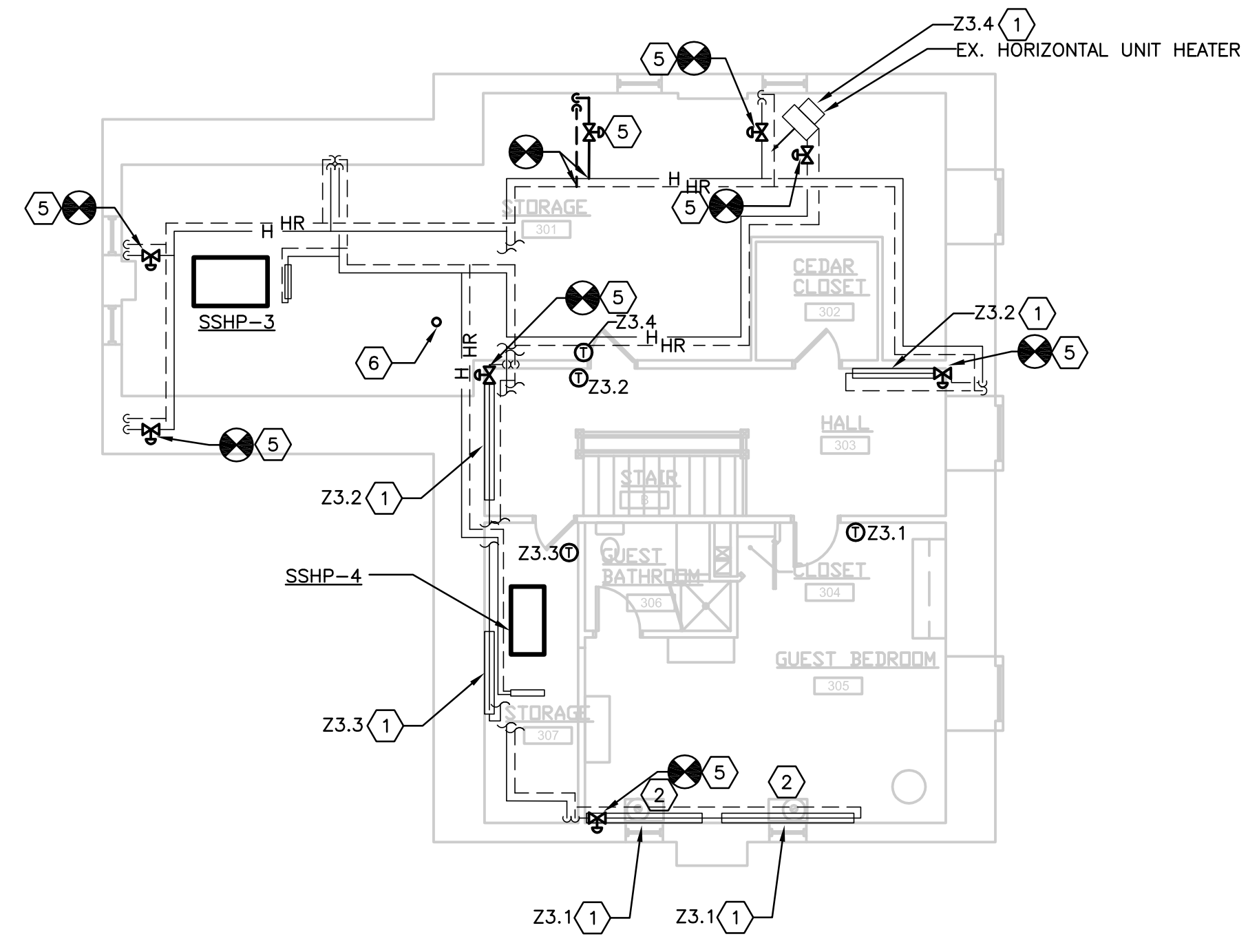
1 BASEMENT FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"



3 SECOND FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

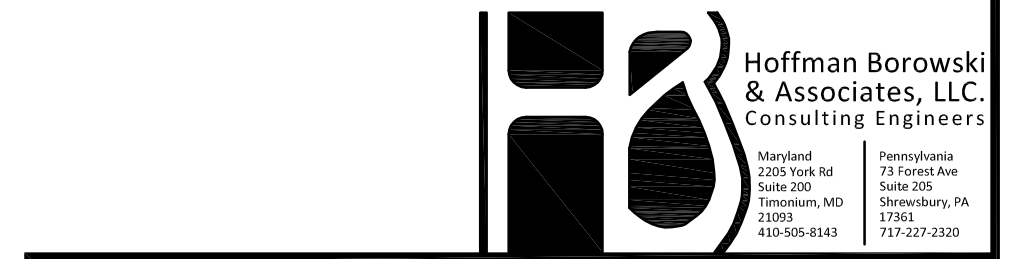
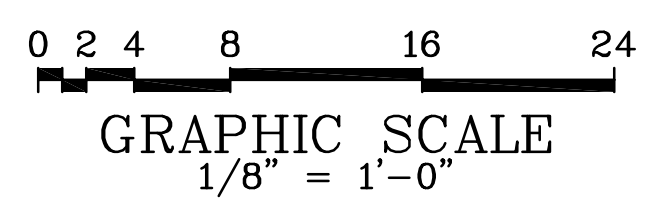


2 FIRST FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"



4 THIRD FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"

- SPECIFIC NOTES (APPLY TO THIS DRAWING WHERE INDICATED):**
- 1 THE NEW 2-WAY CONTROL VALVE SERVING THIS HEATER SHALL BE CONTROLLED BY THE DESIGNATED THERMOSTAT.
 - 2 PROVIDE A NEW ENCLOSURE FOR EXISTING HEATING COILS. MATCH EXISTING ENCLOSURER STYLE & COLOR.
 - 3 PROVIDE 2-WAY CONTROL VALVE WITHIN CABINET ENCLOSURE.
 - 4 NEW CIRCULATOR PUMP.
 - 5 INSTALL NEW 2 WAY CONTROL VALVE IN EXISTING PIPING ON SHORT PIPE RUNS, PROVIDE OFFSET PIPING AS REQUIRED TO ADD VALVE.
 - 6 EXTEND CONTROL WIRING FROM BASEMENT TO ATTIC IN NEW SLEEVE.



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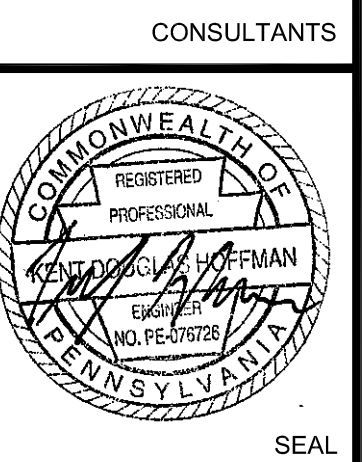
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HARRISBURG, PENNSYLVANIA

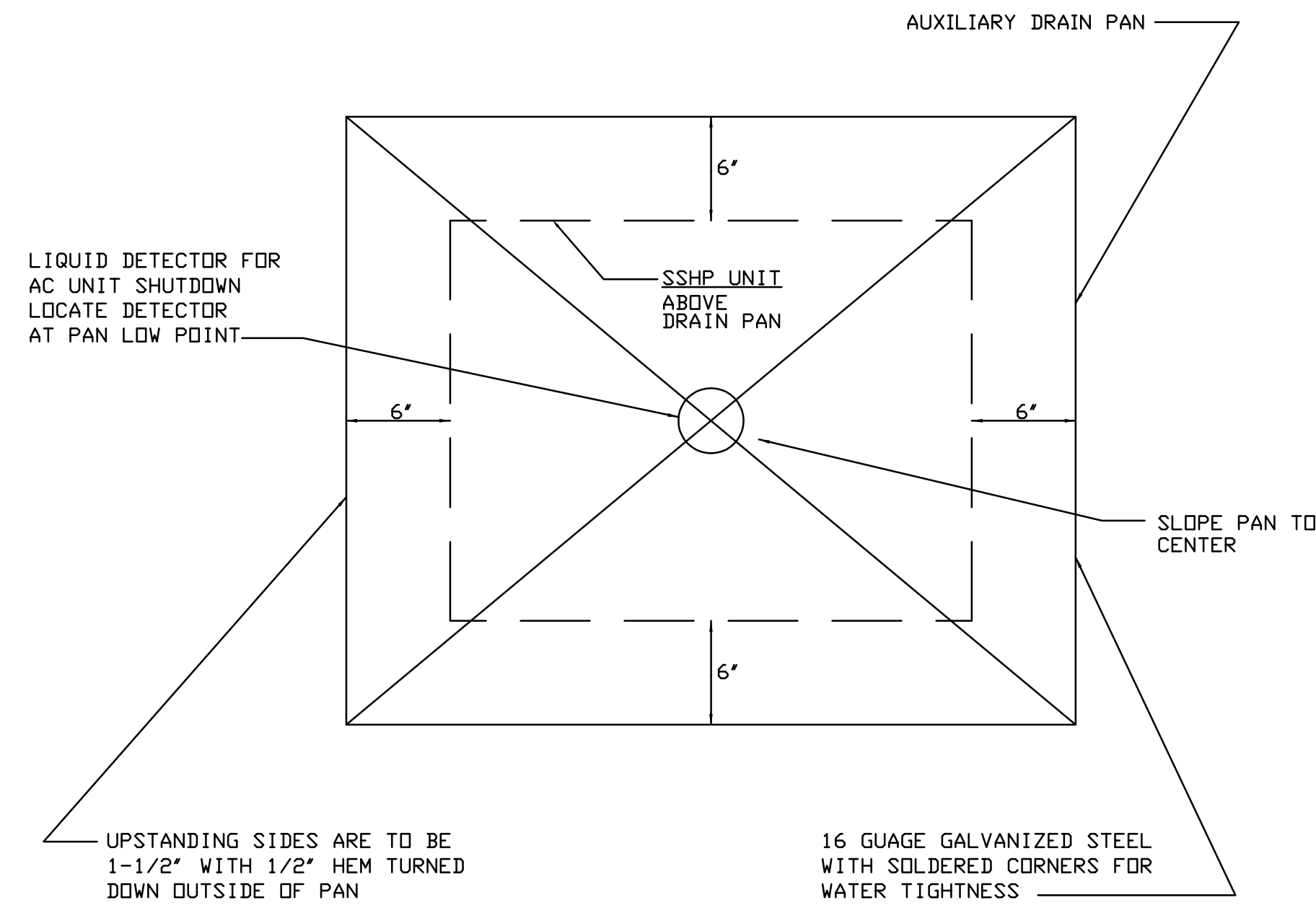
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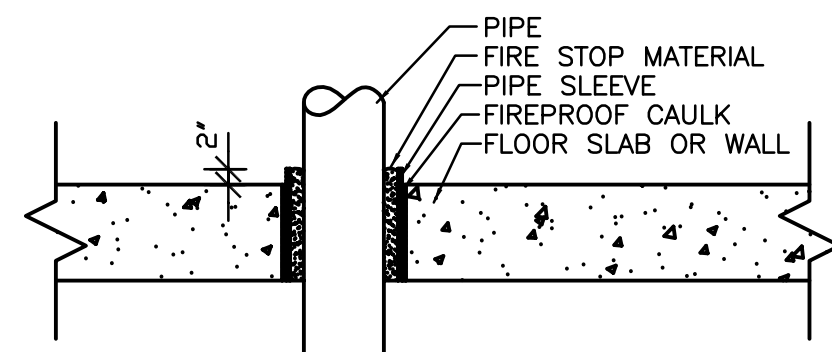
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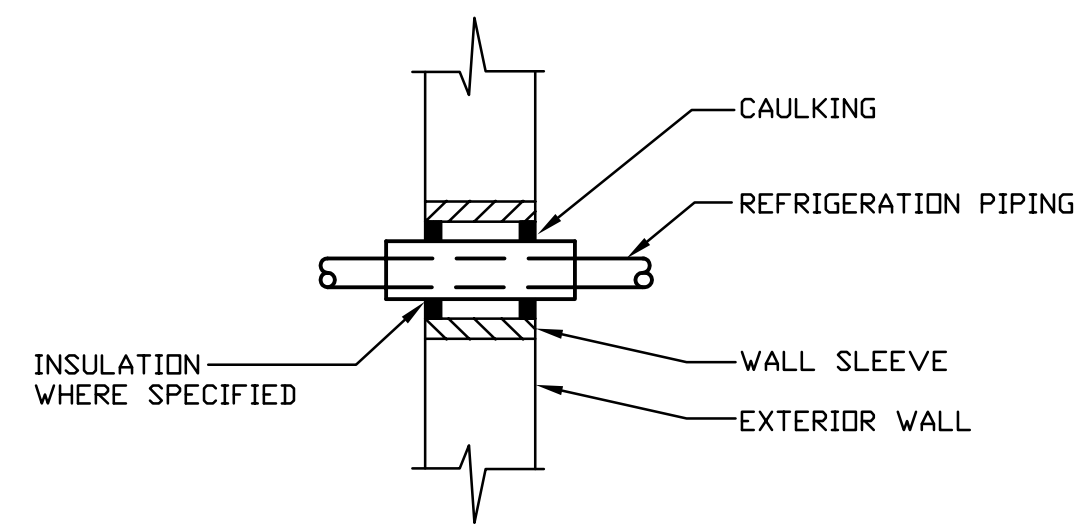
Project 10116 Date 5/09/14
Drawn by NN Checked by JAB
Drawing Number
FLOOR PLANS
- MECHANICAL PIPING
M1.2
5 OF 6



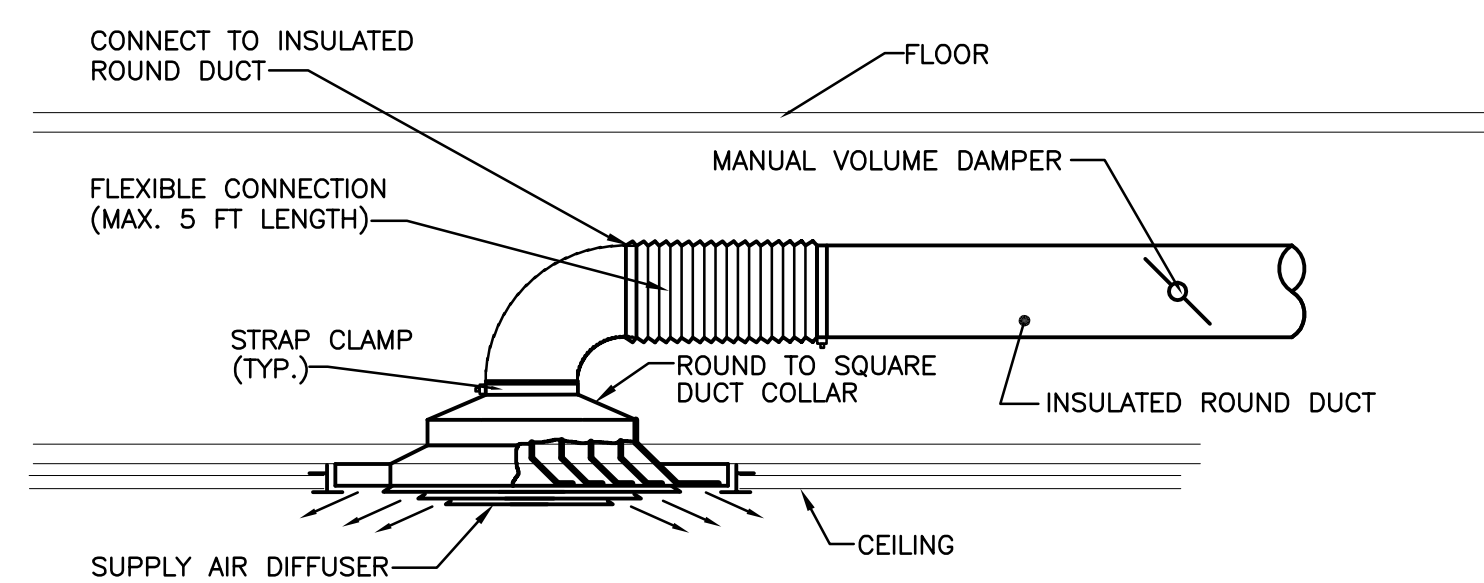
① DETAIL - SECONDARY DRAIN PAN
SCALE: NOT TO SCALE



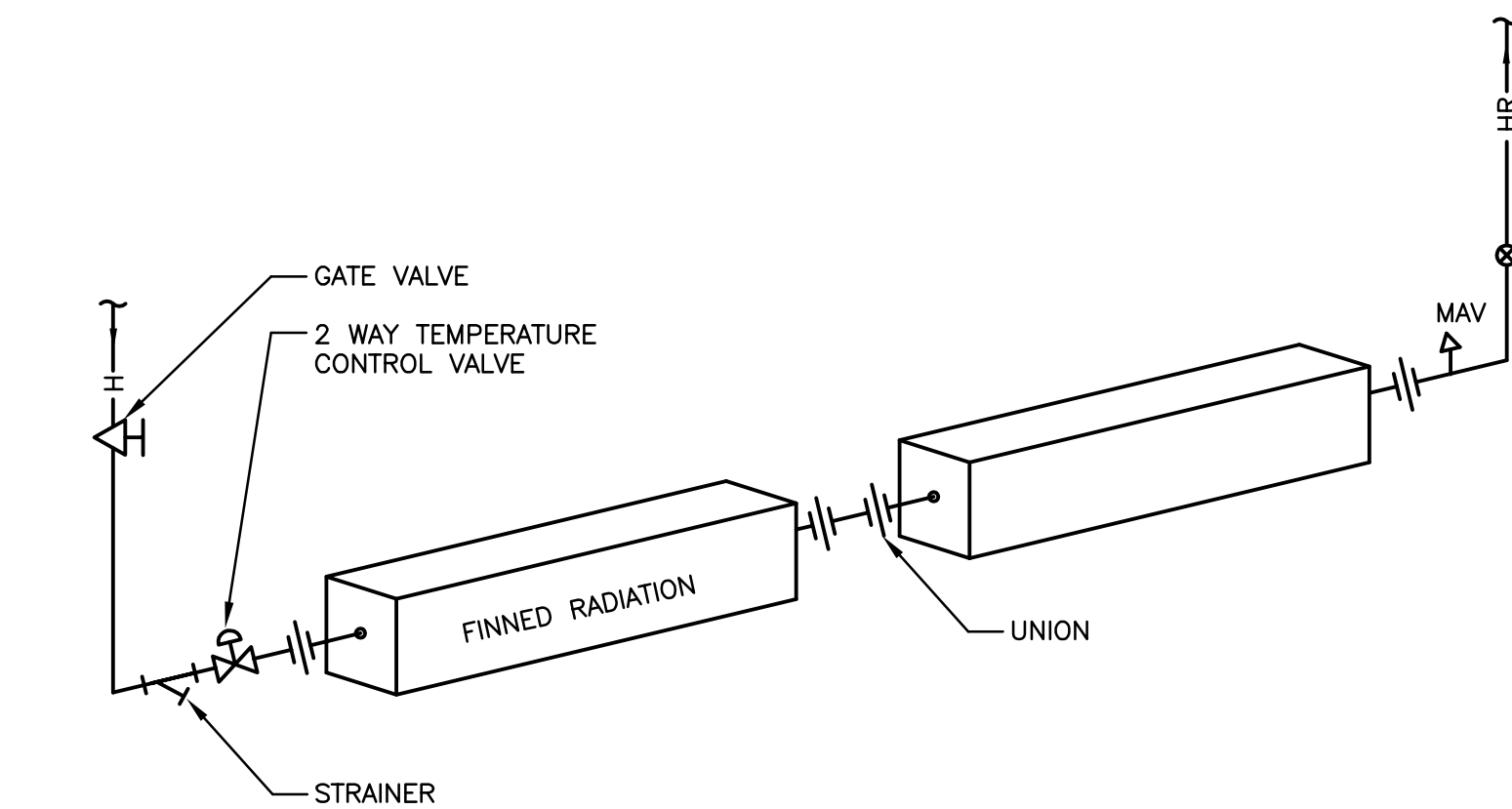
② DETAIL - TYPICAL PIPE SLEEVE
NOT TO SCALE



③ DETAIL - PIPE THRU WALL
NOT TO SCALE

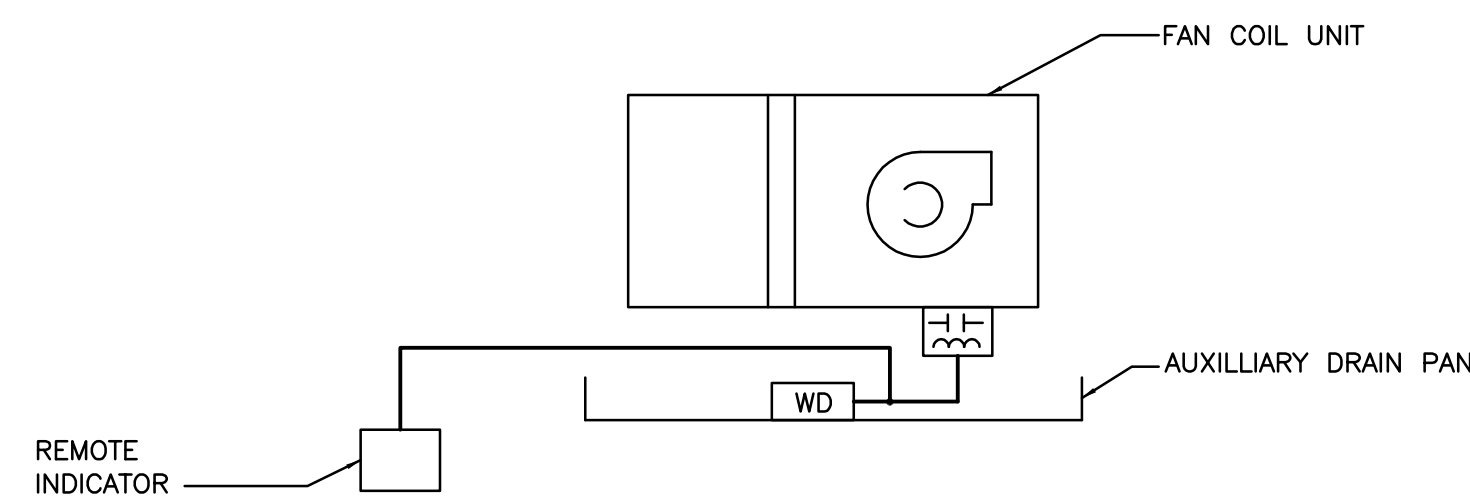


④ DETAIL - TYPICAL DIFFUSER CONNECTION
NOT TO SCALE



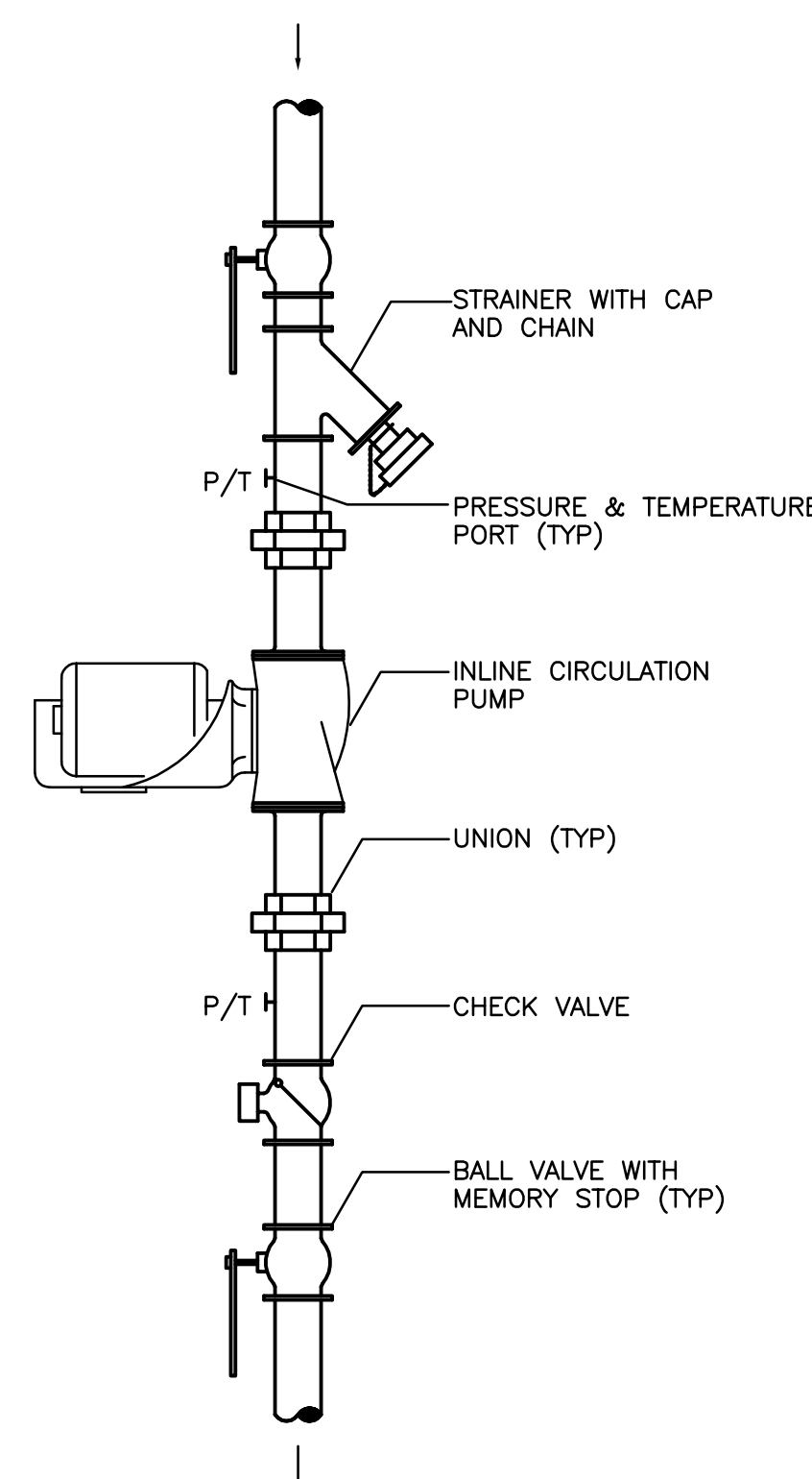
NOTES:
1. AT CONTRACTOR'S OPTION, COMBINATION BALANCING-SHUTOFF VALVES MAY BE USED IN LIEU OF GATE VALVES.

NEW FINNED TUBE RADIATION PIPING DIAGRAM
NOT TO SCALE



NOTES:
UPON SENSING IMPROPER CONDITIONS, WATER LEVEL DETECTOR, WD, SHALL STOP THE FAN AND [DE-ENERGIZE THE COOLING CYCLE] (STOP FLOW THROUGH THE COOLING COIL). PROVIDE REMOTE INDICATOR FOR WATER LEVEL DETECTOR ON CEILING OR WALL NEAR UNIT LOCATION.

⑥ DETAIL - SSHP
NOT TO SCALE



⑦ DETAIL - INLINE CIRCULATING PUMP
NOT TO SCALE

GENERAL:
1. THE EXISTING CONTROL SYSTEMS SHALL BE DELETED, REMOVE EXISTING CONTROL DEVICES AND REPLACE WITH NEW CONTROLLERS, SENSORS, THERMOSTATS, ETC.
2. THE NEW CONTROL SYSTEM SHALL BE AN ENERGY MANAGEMENT SYSTEM AND SHALL BE INTEGRATED INTO THE CAMPUS AUTOMATED LOGIC SYSTEM.
3. THE CONTROLS SHALL BE AUTOMATED LOGIC. PROVIDE A DEDUCT ALTERNATE PRICE TO USE AN ALTERNATE MANUFACTURER'S CONTROL SYSTEM. AN ALTERNATE MANUFACTURER SYSTEM SHALL BE FULLY INTEGRATED WITH THE CAMPUS AUTOMATED LOGIC SYSTEM.
4. POWER TO IMPLEMENT THE NEW CONTROL SEQUENCES SHALL BE EXTENDED FROM THE 20A DEDICATED CIRCUIT LOCATED IN THE BASEMENT.
5. THE NEW SSHP'S AND CIRCULATING PUMPS SHALL TIE INTO THE NEW CONTROL SYSTEMS.
6. EXTEND NEW CONTROL WIRING TO CONTROL DEVICES BY FISHING WIRE THROUGH WALLS/CEILING ASSEMBLES. COORDINATE PATCH AND REPAIR WORK WITH THE WORK COVERED UNDER RELATED CONTRACTS BEFORE BEGINNING WORK.

ALARM CONDITIONS:
1. THE NEW CONTROL SYSTEM SHALL PROVIDE THE FOLLOWING ALARM CONDITIONS WHICH SHALL NOTIFY CAMPUS PERSONNEL VIA THE INTEGRATION WITH THE CAMPUS AUTOMATED LOGIC SYSTEM:
a. A CIRCULATING PUMP IS NOT PROVIDING FLOW WHEN THE PUMP IS ENERGIZED.
b. WATER IS DETECTED IN A SECONDARY CONDENSATE PAN.
c. SPACE TEMPERATURE OR HUMIDITY IS MORE THAN 5 DEGREES OR 10% RH FROM SET POINT (BOTH ADJUSTABLE) WHEN THE ASSOCIATED MODE IS ACTIVE.

EXISTING WINTER SEQUENCE:
1. UPON FALLING AMBIENT TEMPERATURE, VIA THE OUTDOOR AIR TEMPERATURE SENSOR/CONTROLLER (0-60°F ADJ.), THE BOILER WILL ENERGIZE AND MAINTAIN 180°F (ADJUSTABLE), P-2 WILL ENERGIZE TO CIRCULATE HOT WATER AND THE MAIN HOT WATER MIXING VALVE WILL ENERGIZE AND MODULATE THE WATER TEMPERATURE PROPORTIONAL TO RESET SCHEDULE (ADJUSTABLE). AN ADJUSTABLE WALL SWITCH WILL BE USED TO MANUALLY ADJUST RADIATION RESET SCHEDULES. OUTDOOR AIR SENSOR MAY BE MANUALLY OVERRIDDEN W/AN ON-OFF SWITCH. AHU STATS SHALL HAVE FAN ON-OFF SWITCH & SUMMER/WINTER/AUTO/OFF SWITCH. HEAT PUMPS SHALL LOCK OUT BELOW AN ADJUSTABLE AMBIENT TEMPERATURE & UPON LOCKOUT OF HEAT PUMPS AHU PUMP P-1 WILL ENERGIZE TO CIRCULATE HOT WATER & THE RESPECTIVE MIXING VALVE WILL ENERGIZE TO MAINTAIN WATER TEMPERATURE ACCORDING TO RESET SCHEDULE. INDIVIDUAL AHU ROOM STATS WILL MODULATE MIXING VALVE @ HW COIL TO MAINTAIN SET POINT TEMPERATURE. HUMIDITY WILL BE CONTROLLED VIA DUCT MOUNTED HUMIDISTAT. FAN SWITCH AND HIGH LIMIT SWITCH WILL DISABLE THE HUMIDIFIER UPON SENSING NO AIR FLOW OR ELEVATED HUMIDITY. PUMP P-2 WILL STOP UPON RISING INDOOR TEMPERATURE.

EXISTING SUMMER SEQUENCE:
1. UPON RISING ROOM TEMPERATURES, THE ROOM STAT WILL CYCLE HEAT PUMP IN COOLING MODE.

EXISTING SPRING/FALL SEQUENCE:
1. THE AHU ROOM STAT WILL CYCLE THE HEAT PUMP HEATING MODE UPON FALLING TEMPERATURES. THE SPLIT HEAT PUMPS WILL ACT AS A TYPICAL HEAT PUMP SYSTEM UNTIL THE OUTDOOR SENSOR LISTED ABOVE LOCKS OUT THE HEAT PUMPS & INITIATES THE HYDRONIC SYSTEM PROVIDE NEW PROGRAMMABLE THERMOSTAT WITH EACH HEAT PUMP TO REPLACE THE EXISTING IN THE SAME LOCATION. PROVIDE NEW CONTROL WIRING.

BASEBOARD HEATER SEQUENCE:
1. NEW THERMOSTATS SHALL BE PROVIDED TO CONTROL THE EXISTING AND NEW HYDRONIC BASEBOARD HEATERS. WHEN THE HYDRONIC HEATING SECTION IS ENABLED BY THE EXISTING CONTROLS, THE NEW THERMOSTATS SHALL BE ENABLED. DURING THIS MODE, ON A CALL FOR HEAT AS SENSED BY THE NEW WALL MOUNTED THERMOSTAT, THE ASSOCIATED TWO WAY CONTROL VALVE SHALL OPEN TO ALLOW HEATING WATER TO FLOW TO THE COIL(S).
2. THE NEW WALL STATS SHALL BE DIGITAL AND SHALL ALLOW FOR SET POINTS TO BE ADJUSTED ON THE FACEPLATE.

KITCHEN HOOD SEQUENCE:
1. THE NEW DUCT TO BE INSTALLED OFF OF THE EXISTING ERV SHALL BE PROVIDED WITH A MOTORIZED DAMPER WHICH SHALL BE NORMALLY CLOSED. IN ADDITION, NEW MOTOR OPERATED DAMPERS SHALL BE INSTALLED IN THE EXISTING HVAC DUCTWORK, WHICH SHALL BE NORMALLY OPEN. WHEN THE KITCHEN EXHAUST HOOD IS SWITCHED ON, MOTORIZED DAMPERS IN THE EXISTING HVAC DUCTWORK SHALL CLOSE, AND THE MOTORIZED DAMPER IN THE NEW DUCT OFF THE ERV SHALL OPEN TO DIVERT AIR OFF OF THE ERV TO BE USED AS MAKE UP AIR TO THE KITCHEN. THE MAKEUP AIR DUCT SHALL BE PROVIDED WITH A HOT WATER COIL AND A DX COILING COIL TO TEMPER THE AIR TO A NEUTRAL DISCHARGE AIR TEMPERATURE BEFORE INTRODUCING IT INTO THE SPACE. CONTROL OF THE HOT WATER COIL AND THE DX COIL SHALL BE MODULATING FOR LEAVING AIR TEMPERATURE CONTROL.

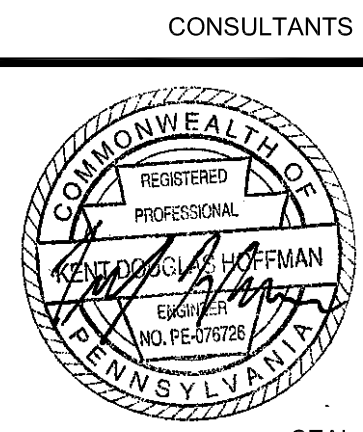
AUTOMATIC TEMPERATURE CONTROLS



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Consultant:			
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RENOVATIONS AND ADDITIONS TO
 MARTIN HOUSE
 SHIPPENSBURG, PENNSYLVANIA 17257

MECHANICAL LEGEND

SYMBOL	ABBREV	DESCRIPTION
	SP, SAN	SANITARY PIPE
	SW	STORM WATER
	D	DRAIN
	FDR	FOUNDATION DRAIN
	CO	CLEANOUT
	VP	VENT PIPE
	CW	COLD WATER
	HW	HOT WATER
	HWC	HOT WATER CIRCULATING
	G	GAS
		SHUTOFF VALVE
		GLOBE VALVE
		CHECK VALVE
	BWV	BACK WATER VALVE
		FLOW METER FITTING
		BALANCING VALVE
		RELIEF VALVE
	MAV	MANUAL AIR VALVE
	AAV	AUTOMATIC AIR VALVE
		STRAINER
		UNION
	SA	SHOCK ABSORBER
		PIPE TURNING UP
		PIPE TURNING DOWN
		TEE TURNED UP
		TEE TURNED DOWN
	WH	WALL HYDRANT
	HB	HOSE BIBB
		DEMOLITION TO THIS POINT
		CONNECT TO EXISTING
		GAS PRESSURE REGULATOR
	FDP	FLOOR DRAIN WITH TRAMP PRIMER
		DETAIL DESIGNATION

ABBREVIATIONS

BTU	BRITISH THERMAL UNIT
CFH	CUBIC FEET HOUR
CFM	CUBIC FEET MINUTE
CX	CONNECT TO EXISTING
EX	EXISTING
(FLOOR PLAN - P-1)	FOR CONTINUATION SEE FLOOR PLAN ON DRAWING P-1
GPM	GALLONS PER MINUTE
KW	KILOWATTS
MBH	THOUSAND BTU/HR
RX	REMOVE EXISTING
V-PH	VOLT-PHASE
VTR	VENT THROUGH ROOF

DESIG	DESCRIPTION	SAN	VENT	CW	HW	REMARKS
P-1A	WATER CLOSET	3"	2"	1/2"	-	ADA COMPLIANT
P-2A	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	ADA COMPLIANT
P-3A	NOT USED	-	-	-	-	
P-4A	NOT USED	-	-	-	-	
P-4B	SHOWER	2"	1-1/2"	1/2"	1/2"	REMOVE SINK & REINSTALL INTO NEW COUNTERTOP. MAKE PIPING CONNECTIONS
P-5	KITCHEN SINK	2"	1-1/2"	1/2"	1/2"	
P-6	NOT USED	-	-	-	-	
P-7	HAND SINK	1-1/2"	1-1/2"	1/2"	1/2"	
P-8	COFFEE MAKER ROUGH-IN BOX	-	-	1/2"	-	PROVIDED UNDER ANOTHER DIVISION, PROVIDE WITH AHJ APPROVED BACKFLOW PREVENTER
P-9	ICE MAKER ROUGH-IN BOX	-	-	1/2"	-	PROVIDED UNDER ANOTHER DIVISION, PROVIDE WITH AHJ APPROVED BACKFLOW PREVENTER & FILTER
P-10	WASHING MACHINE BOX	2"	1-1/4"	1/2"	1/2"	
P-11	LAUNDRY SINK	1-1/2"	1-1/4"	1/2"	1/2"	

GENERAL NOTES (APPLY TO WORK PROVIDED UNDER DIVISION 20):

- SANITARY AND DRAINAGE PIPING SHALL RUN AT 1% SLOPE MINIMUM, UNLESS NOTED OTHERWISE.
- LOCATIONS OF DRAINS AND CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE COORDINATED WITH FLOOR PLANS, MECHANICAL/ELECTRICAL PLANS. NO WORK SHALL BE INSTALLED UNTIL THE LOCATIONS HAVE BEEN VERIFIED.
- PLUMBING FIXTURES SHALL BE CAULKED TO THE ADJOINING FLOOR OR WALL SURFACE.
- NORTH ARROWS ON THESE DRAWINGS INDICATE PLAN NORTH ONLY.
- PROVIDE CLEANOUTS IN SANITARY AND DRAIN LINES EVERY 50 FEET OF PIPE UNLESS INDICATED AT CLOSER INTERVALS ON DRAWING AND AT CHANGE OF DIRECTION.
- THE PLUMBING FIXTURE SCHEDULE AND SPECIFICATIONS SUPERCEDE THE SYMBOLS INDICATED ON THE FLOOR PLANS.
- PIPE DROP IN EXTERIOR WALL SHALL BE INBOARD OF INSULATION.

GENERAL DEMOLITION NOTES (APPLY TO WORK PROVIDED UNDER DIVISION 20):

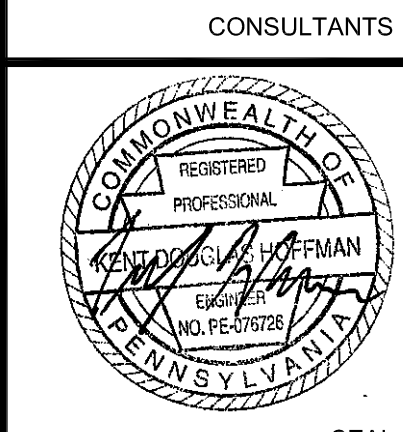
- DEMOLITION WORK IS GENERALLY INDICATED AS PART OF THESE NOTES AND THE NOTES INDICATED ON THE ARCHITECTURAL DEMOLITION PLANS.
- VERIFY THAT EXISTING PIPING, EQUIPMENT, ETC. THAT IS CALLED FOR REMOVAL IS NO LONGER IN SERVICE BEFORE BEGINNING DEMOLITION.
- THE DEMOLITION NOTES INDICATE THE MAIN COMPONENTS OF SYSTEMS AND EQUIPMENT THAT SHALL BE REMOVED UNDER THIS CONTRACT. IF SYSTEMS AND EQUIPMENT ARE FOUND DURING CONSTRUCTION THAT THE OWNER AUTHORIZES FOR REMOVAL BUT HAVE NOT BEEN SPECIFICALLY CALLED FOR DEMOLITION, REMOVE THE SYSTEMS AND EQUIPMENT.
- WHEN THE WORK SPECIFIED HEREUNDER CONNECTS TO ANY EXISTING EQUIPMENT, PIPING, ETC., PERFORM NECESSARY ALTERATIONS, CUTTING, FITTING, ETC. OF THE EXISTING WORK AS MAY BE NECESSARY OR REQUIRED TO MAKE SATISFACTORY CONNECTIONS BETWEEN THE NEW AND EXISTING WORK AND LEAVE THE COMPLETE WORK IN A FINISHED AND WORKMANLIKE CONDITION.
- WHEN THE WORK SPECIFIED HEREUNDER OTHER DIVISIONS NECESSITATES RELOCATION OF EXISTING EQUIPMENT, PIPING, ETC. PERFORM WORK AND MAKE NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION.
- REMOVE FROM THE PREMISES AND DISPOSE OF EXISTING PIPING, MATERIAL, FIXTURES, EQUIPMENT, ETC. NOT REQUIRED FOR RE-USE OR RE-INSTALLATION.
- DELIVER ON THE PREMISES WHERE DIRECTED EXISTING MATERIAL AND EQUIPMENT WHICH IS REMOVED AND IS DESIRED BY THE OWNER OR IS INDICATED TO REMAIN THE PROPERTY OF THE OWNER.
- OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY HIM FROM THE PREMISES.
- PIPING ABANDONED IN CONCRETE SLABS, WALLS, OR OTHER INACCESSIBLE LOCATIONS SHALL BE LEFT EMPTY.



PROJECT NO. SU - 2010/6B

**RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257**

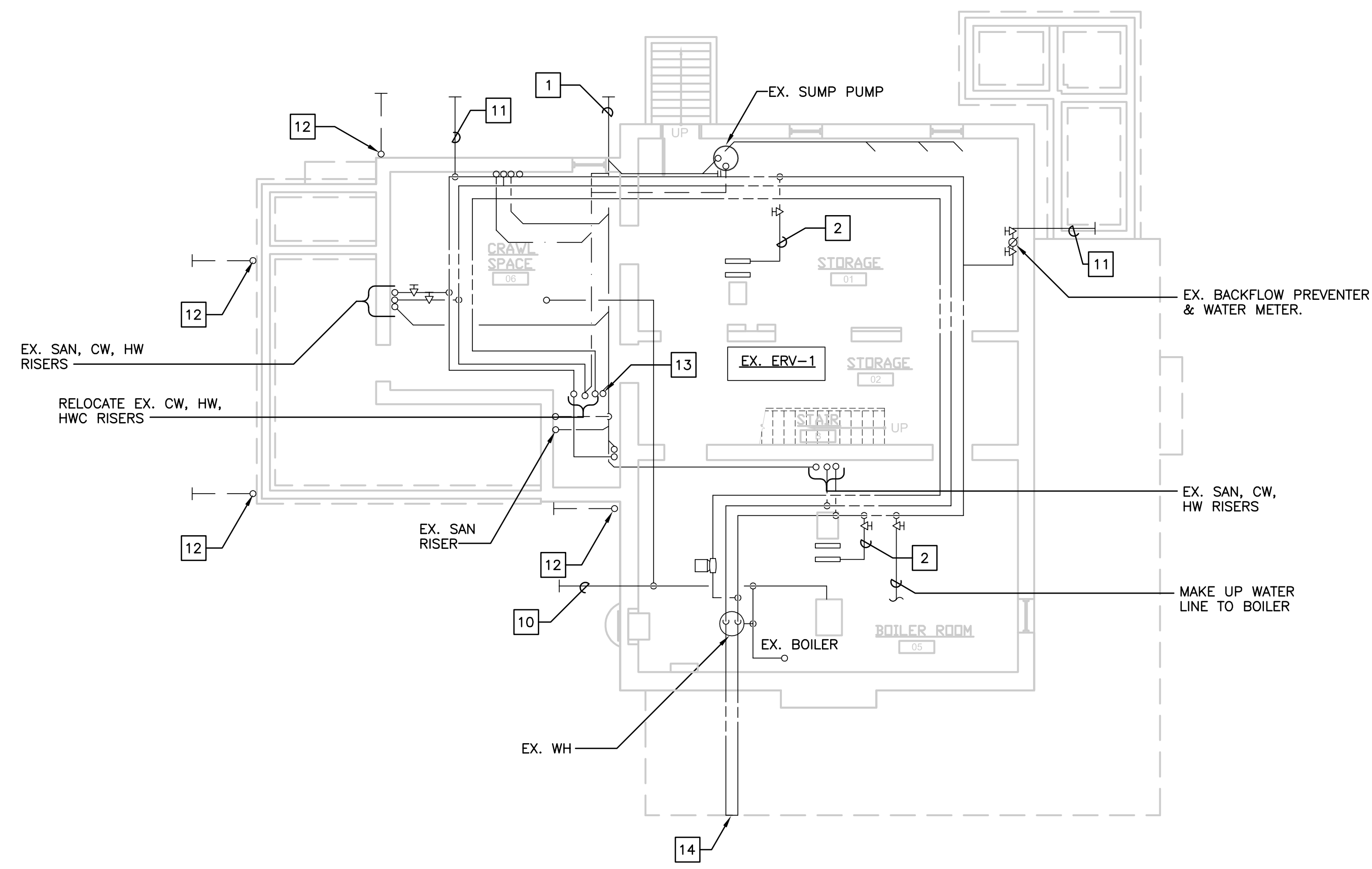
**Murphy & Dittenhafer
ARCHITECTS**
 226 West Market Street, York, Pennsylvania 17401
 717-848-8627 Voice 717-848-2449 Fax



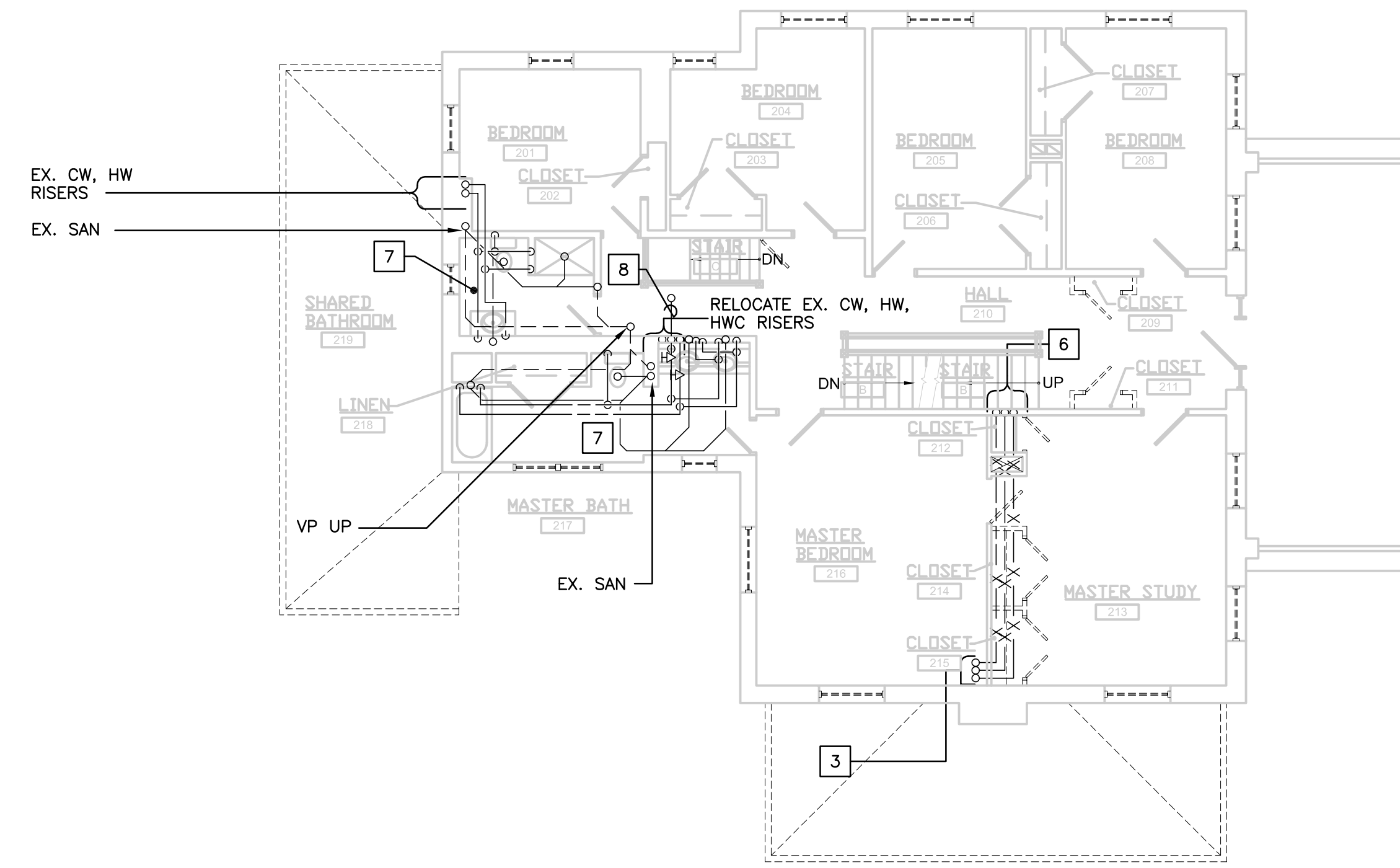
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COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:			Drawing Number
Professional:			PLUMBING COVER SHEET
Consultant:			
Authorized by:			

PLUMBING DRAWING LIST:

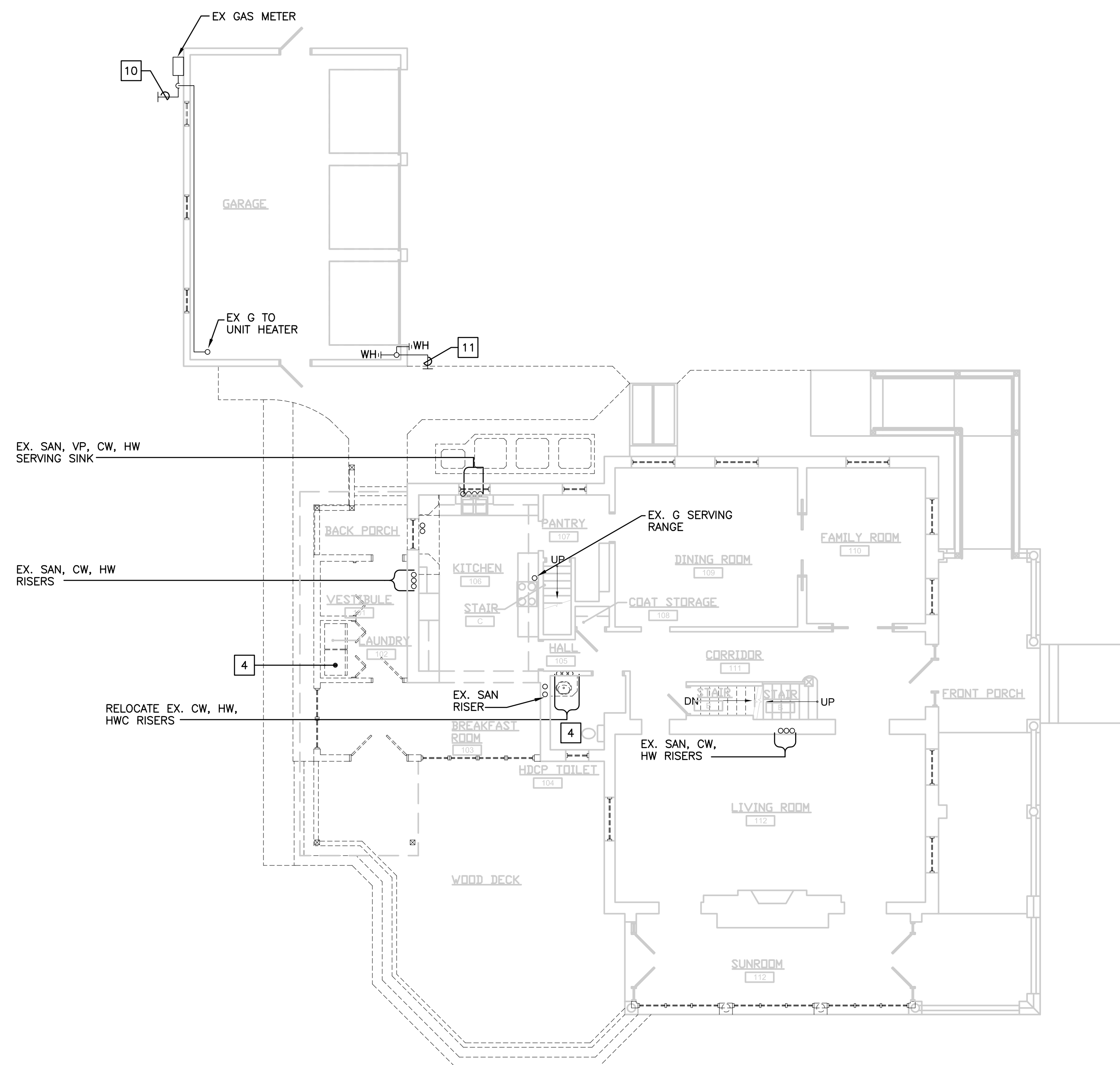
PO.1	PLUMBING COVER SHEET
DP1.1	DEMOLITION FLOOR PLANS - PLUMBING
P1.1	FLOOR PLANS - PLUMBING
P2.1	PART PLANS - PLUMBING
P3.1	PLUMBING DETAILS & RISER DIAGRAMS



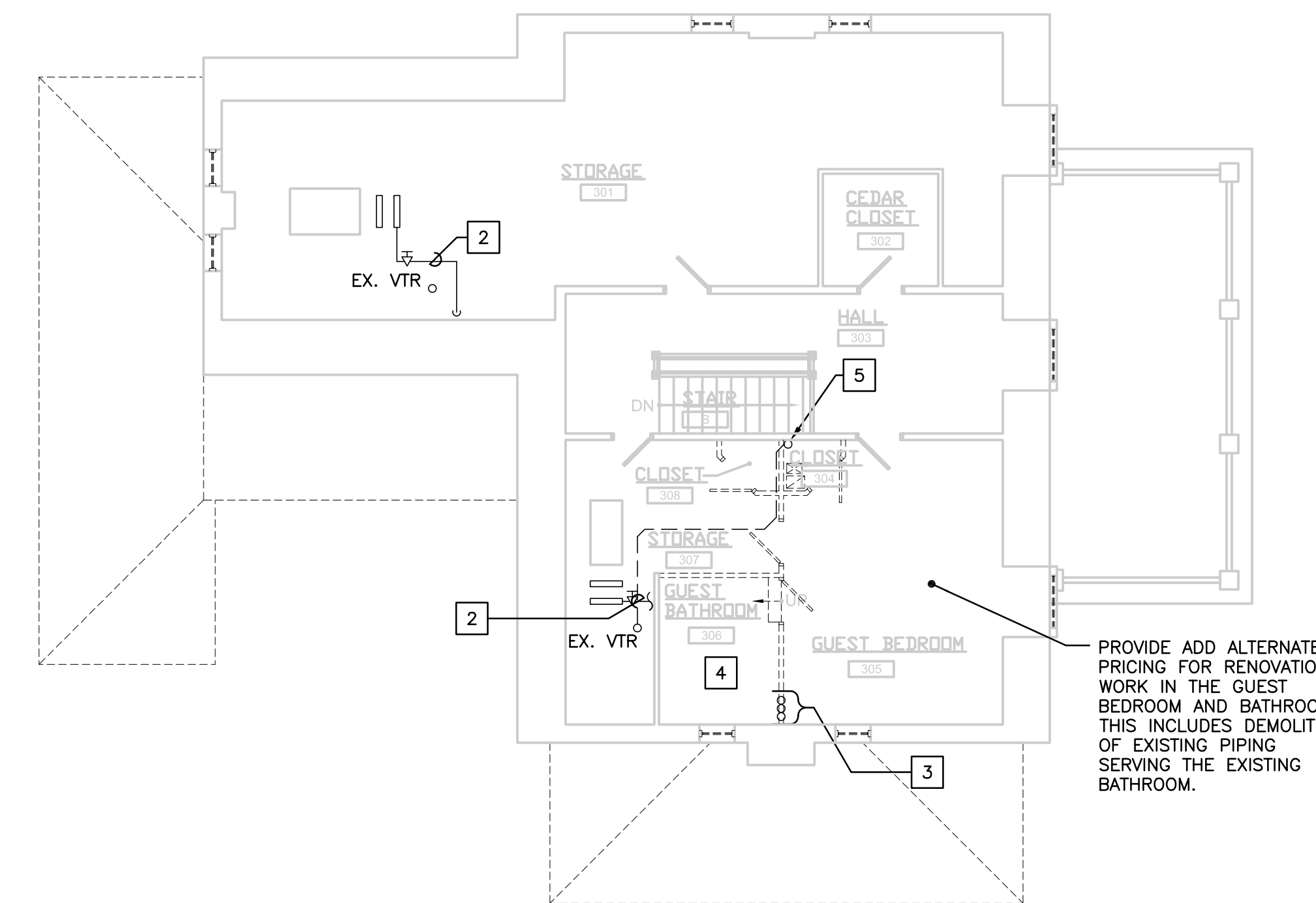
1 BASEMENT DEMOLITION PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



3 SECOND FLOOR DEMOLITION PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



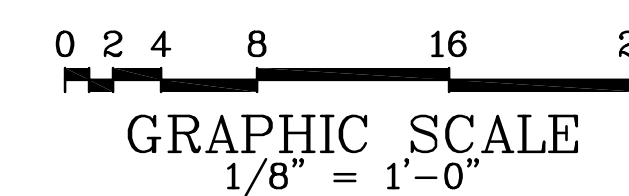
2 FIRST FLOOR DEMOLITION PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



4 THIRD FLOOR DEMOLITION PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES (APPLY TO THIS DRAWING WHERE INDICATED):

- 1 EX SAN TO 5'-0" BEYOND BUILDING. REFER TO SITE PLAN FOR CONTINUATION.
- 2 REMOVE EXISTING CW LINE AND ASSOCIATED HUMIDIFIER.
- 3 REMOVE EXISTING SAN, CW, & HW RISERS.
- 4 REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED SAN, CW, HW, & VP IN THIS ROOM.
- 5 EXISTING VENT RISER.
- 6 REMOVE EXISTING SAN, CW, & HW BACK TO RISERS.
- 7 REMOVE EXISTING LAVATORY SINK(S) IN THIS ROOM.
- 8 REMOVE EXISTING CW BACK TO RISERS.
- 9 NOT USED.
- 10 EXISTING GAS LINE. REFER TO SITE PLAN FOR CONTINUATION.
- 11 EXISTING CW LINE. REFER TO SITE PLAN FOR CONTINUATION.
- 12 EXISTING DOWNSPOUT & BOOT CONNECTION. REFER TO SITE PLAN FOR CONTINUATION.
- 13 REMOVE EXISTING RISER SERVING FIXTURE ABOVE.
- 14 RELOCATE EXISTING DUAL TEMPERATURE WALL HYDRANT.



RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257



Shippensburg
University

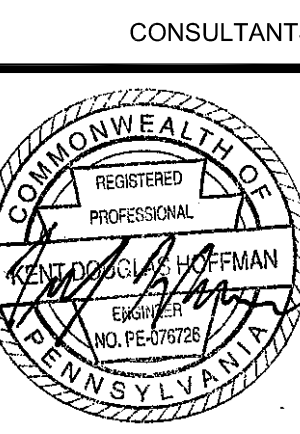
PROJECT NO. SU - 2010/6B

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AS BUILT REVISIONS			

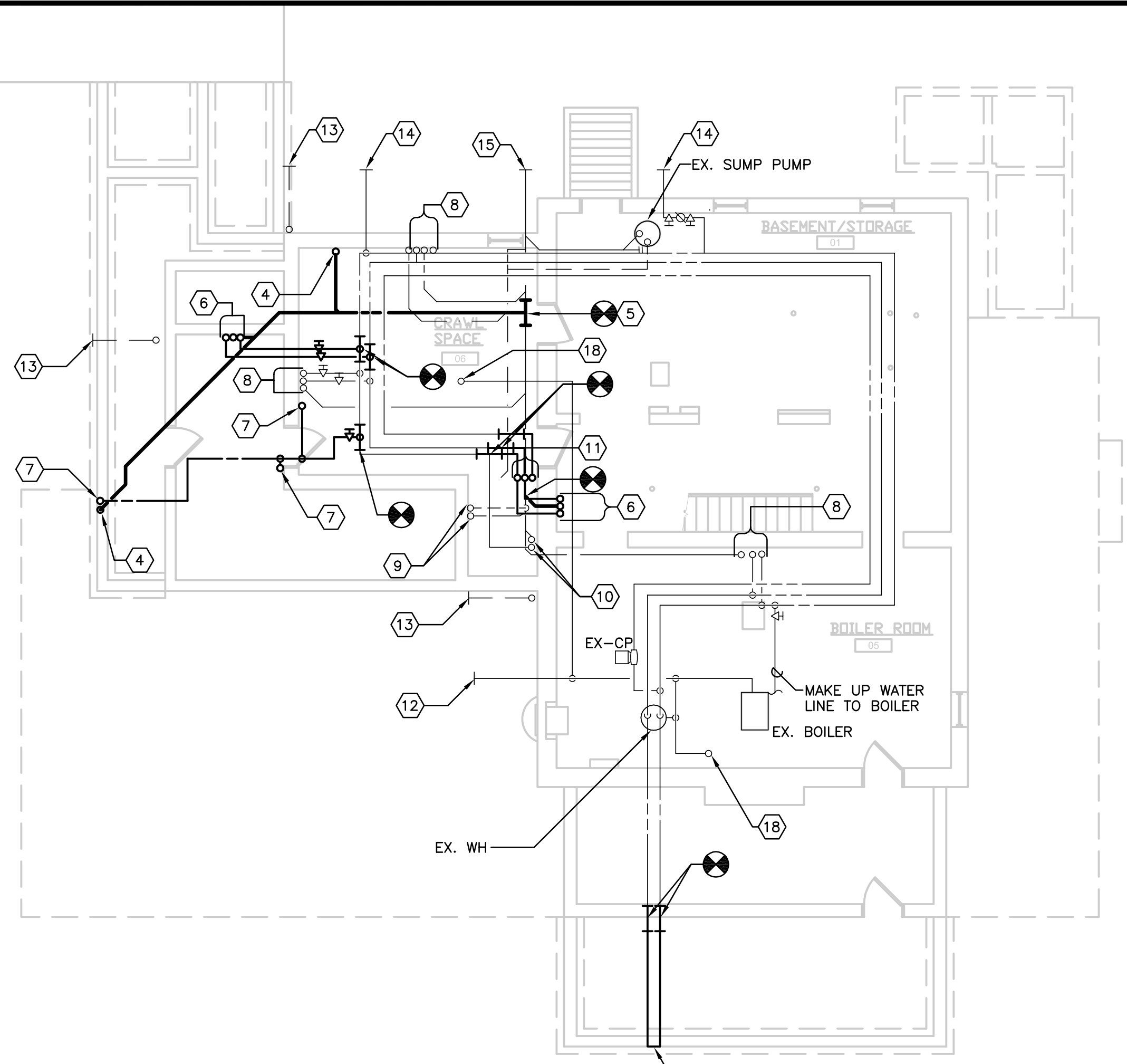
COMMONWEALTH OF PENNSYLVANIA
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Professional:
Consultant:
Authorized by:

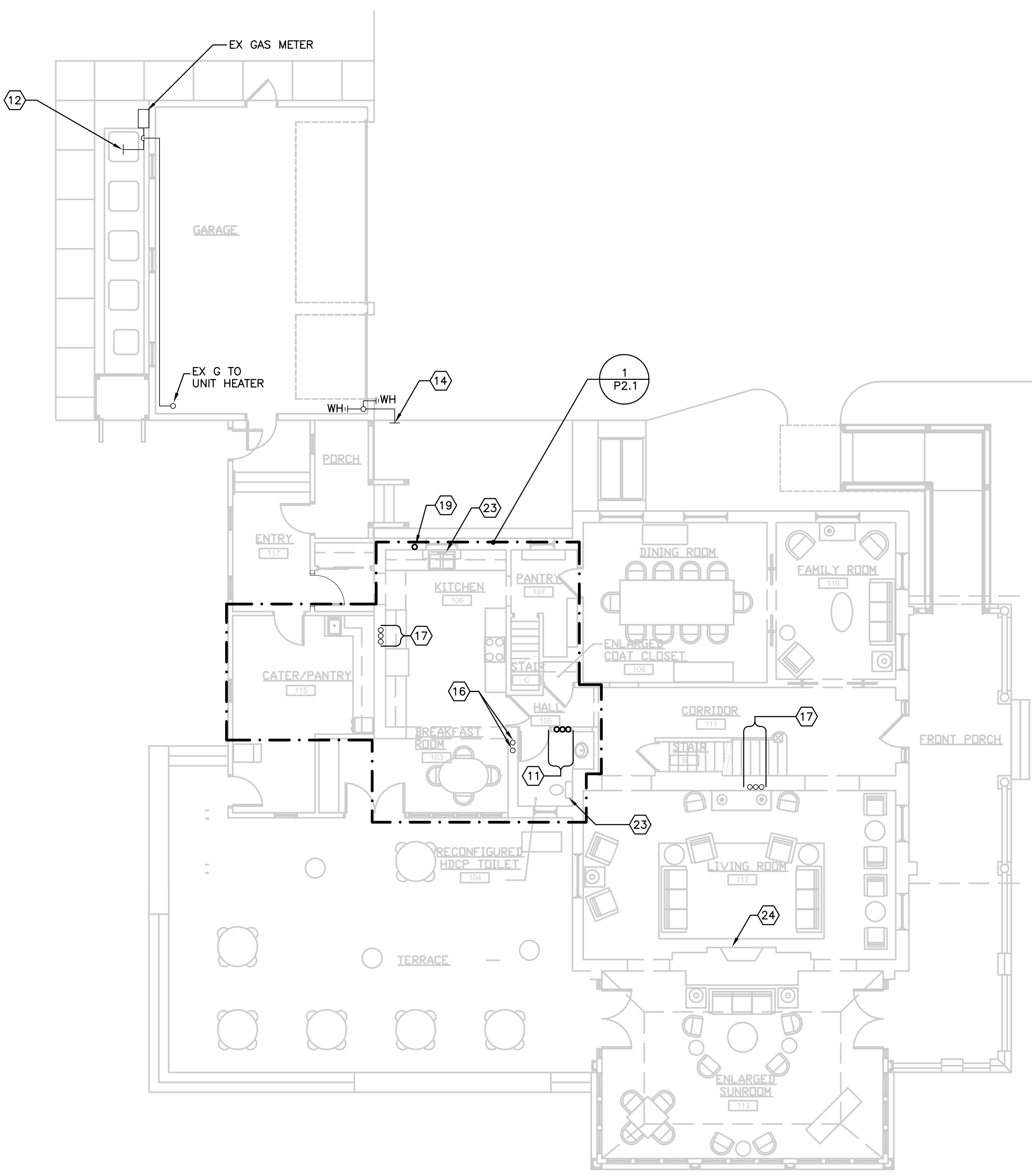
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88 North Charles Street, Baltimore, Maryland 21201
410-625-4233 Voice 410-625-8974 Fax
228 West Market Street, York, Pennsylvania 17403
717-848-8627 Voice 717-843-2489 Fax



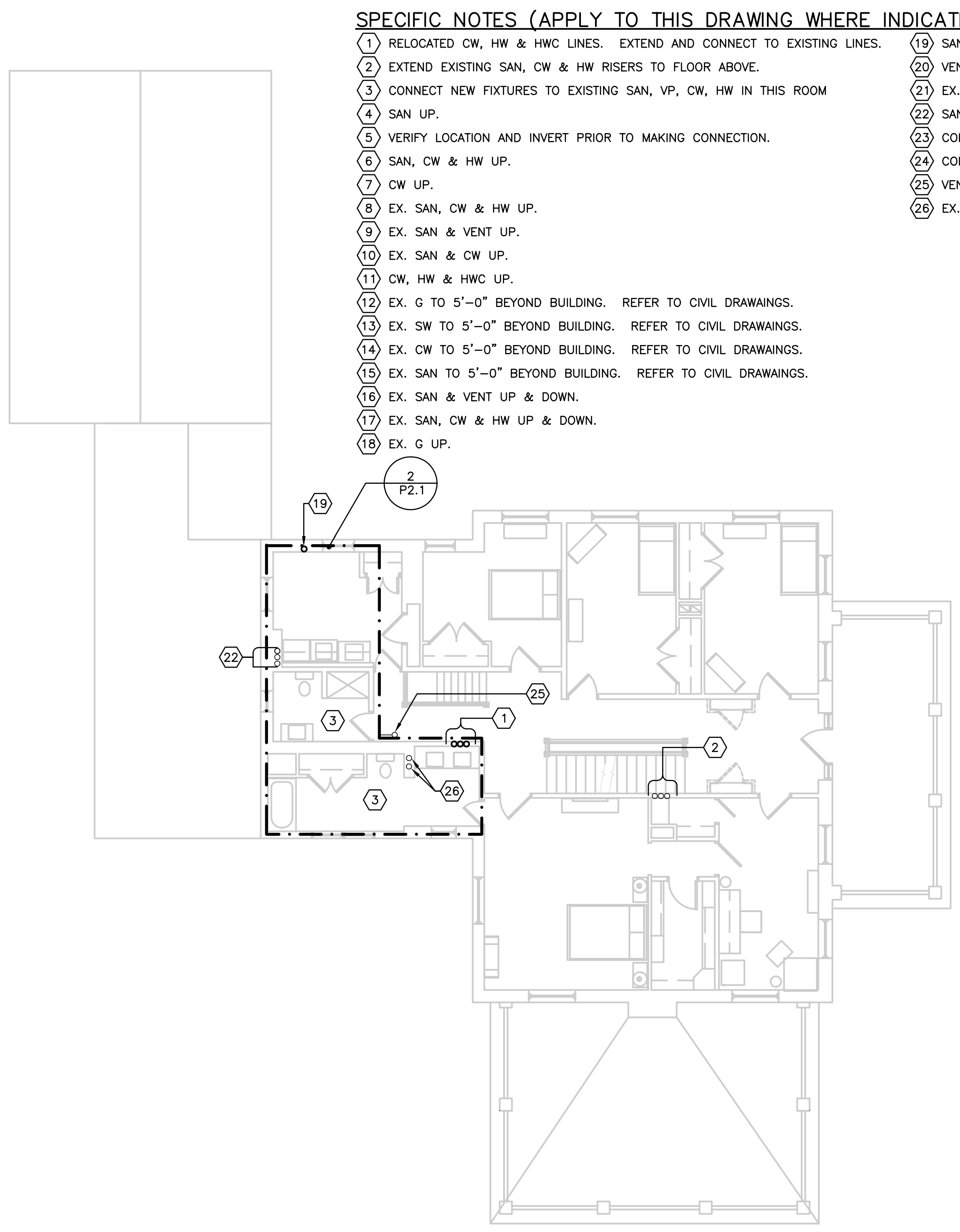
Project 10116 Date 5/09/14
Drawn by NN Checked by JAB
Drawing Number
DEMOLITION OVERALL
FLOOR PLANS - PLUMBING
DP1.1
2 OF 5



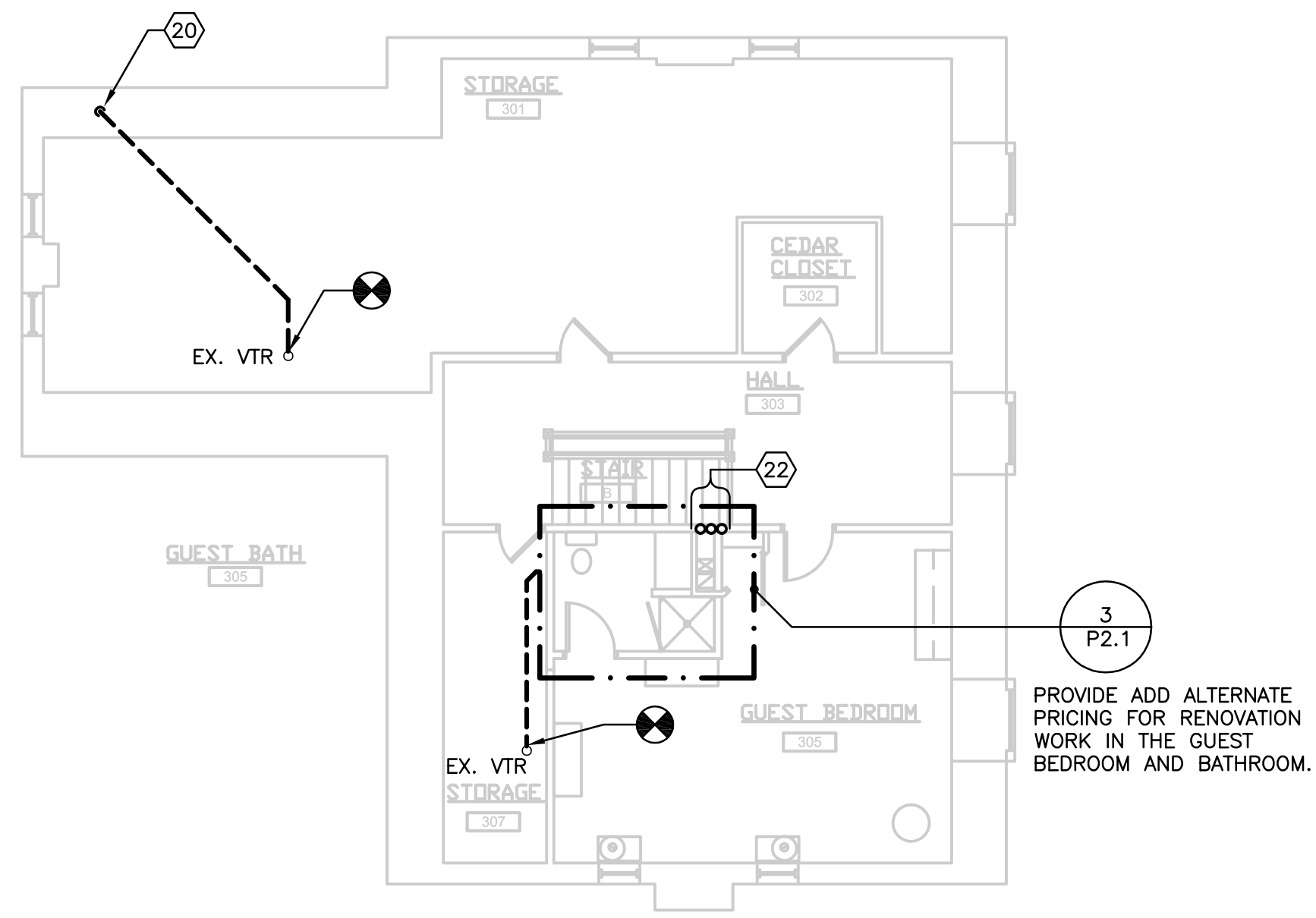
1 BASEMENT FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

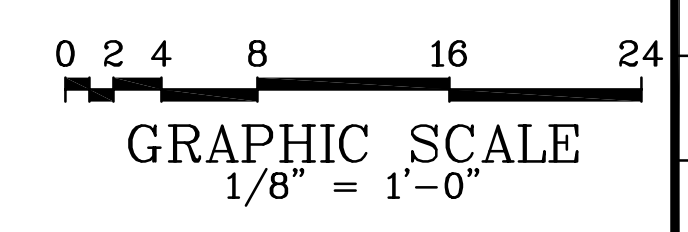


3 SECOND FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"



4 THIRD FLOOR PLAN - PLUMBING
SCALE: 1/8" = 1'-0"

- SPECIFIC NOTES (APPLY TO THIS DRAWING WHERE INDICATED):**
- 1 RELOCATED CW, HW & HWC LINES. EXTEND AND CONNECT TO EXISTING LINES.
 - 2 EXTEND EXISTING SAN, CW & HW RISERS TO FLOOR ABOVE.
 - 3 CONNECT NEW FIXTURES TO EXISTING SAN, VP, CW, HW IN THIS ROOM.
 - 4 SAN UP.
 - 5 VERIFY LOCATION AND INVERT PRIOR TO MAKING CONNECTION.
 - 6 SAN, CW & HW UP.
 - 7 CW UP.
 - 8 EX. SAN, CW & HW UP.
 - 9 EX. SAN & VENT UP.
 - 10 EX. SAN & CW UP.
 - 11 CW, HW & HWC UP.
 - 12 EX. G TO 5'-0" BEYOND BUILDING. REFER TO CIVIL DRAWINGS.
 - 13 EX. SW TO 5'-0" BEYOND BUILDING. REFER TO CIVIL DRAWINGS.
 - 14 EX. CW TO 5'-0" BEYOND BUILDING. REFER TO CIVIL DRAWINGS.
 - 15 EX. SAN TO 5'-0" BEYOND BUILDING. REFER TO CIVIL DRAWINGS.
 - 16 EX. SAN & VENT UP & DOWN.
 - 17 EX. SAN, CW & HW UP & DOWN.
 - 18 EX. G UP.
 - 19 SAN UP & DOWN.
 - 20 VENT DOWN.
 - 21 EX. SAN, CW & HW DOWN.
 - 22 SAN, CW & HW DOWN.
 - 23 CONNECT NEW FIXTURE TO EXISTING SAN, VP, CW, HW.
 - 24 CONNECT NEW LOG SET TO EXISTING G.
 - 25 VENT UP.
 - 26 EX. SAN & VENT DOWN.



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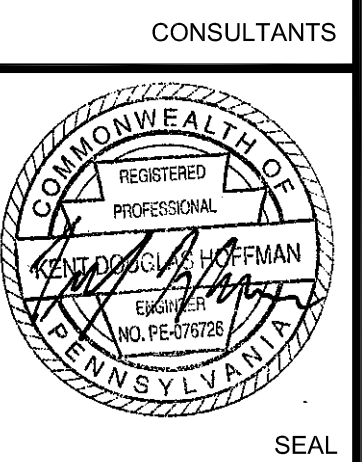
Rev	Description	By	Date
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HARRISBURG, PENNSYLVANIA

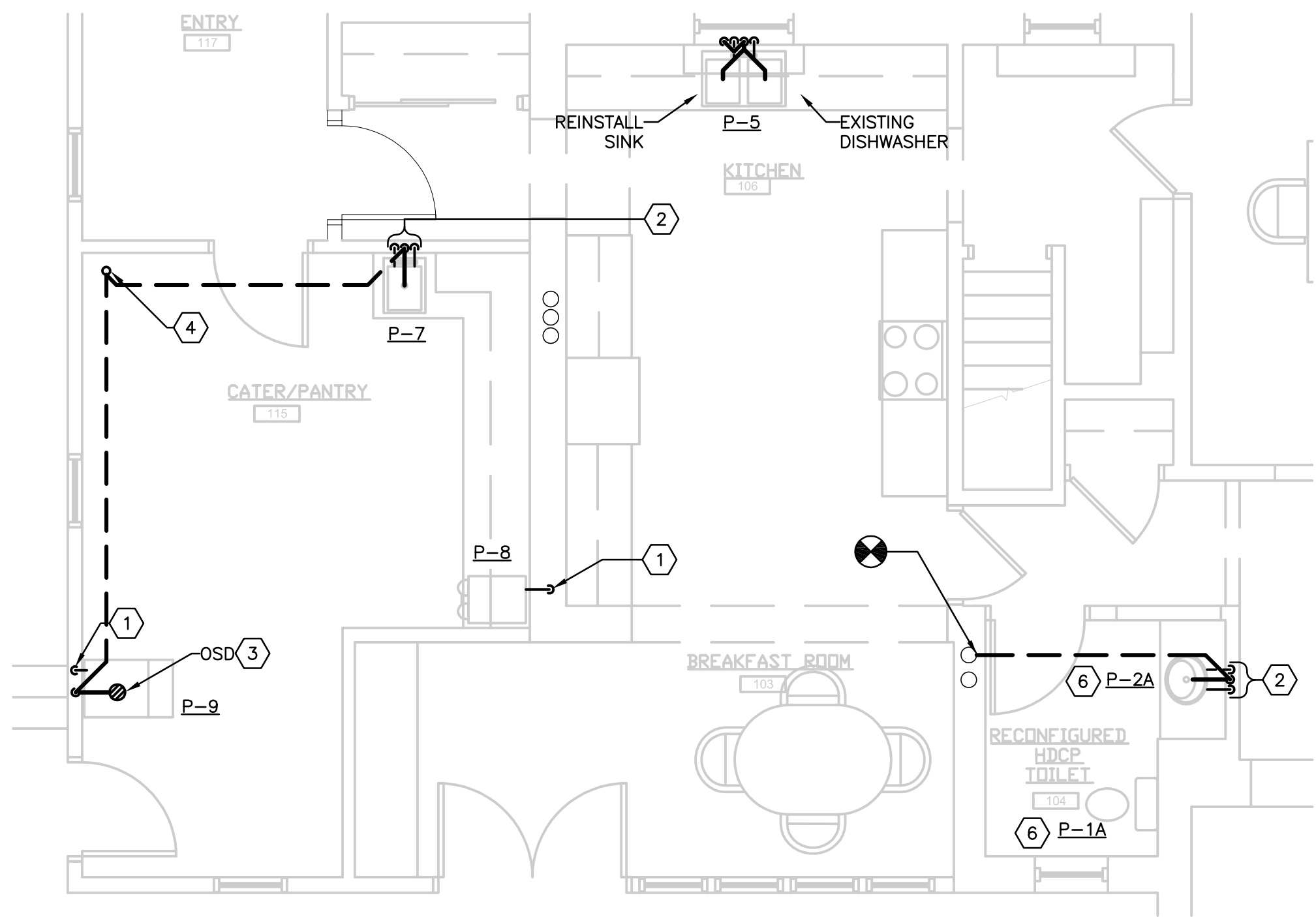
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Professional:
Consultant:
Authorized by:

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

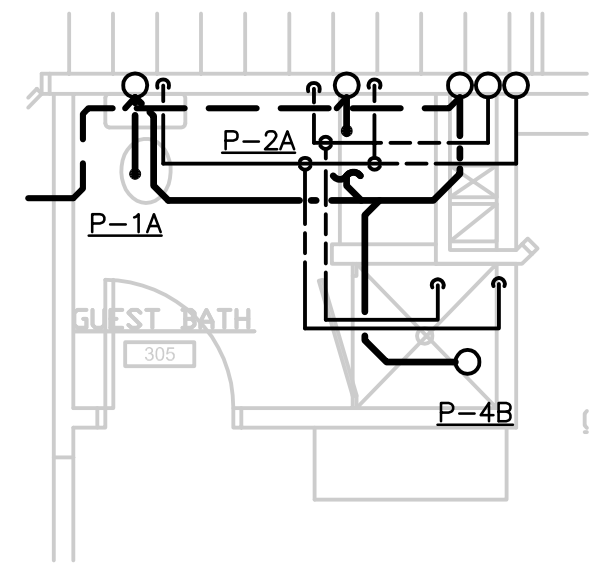
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208 West Market Street, York, Pennsylvania 17403
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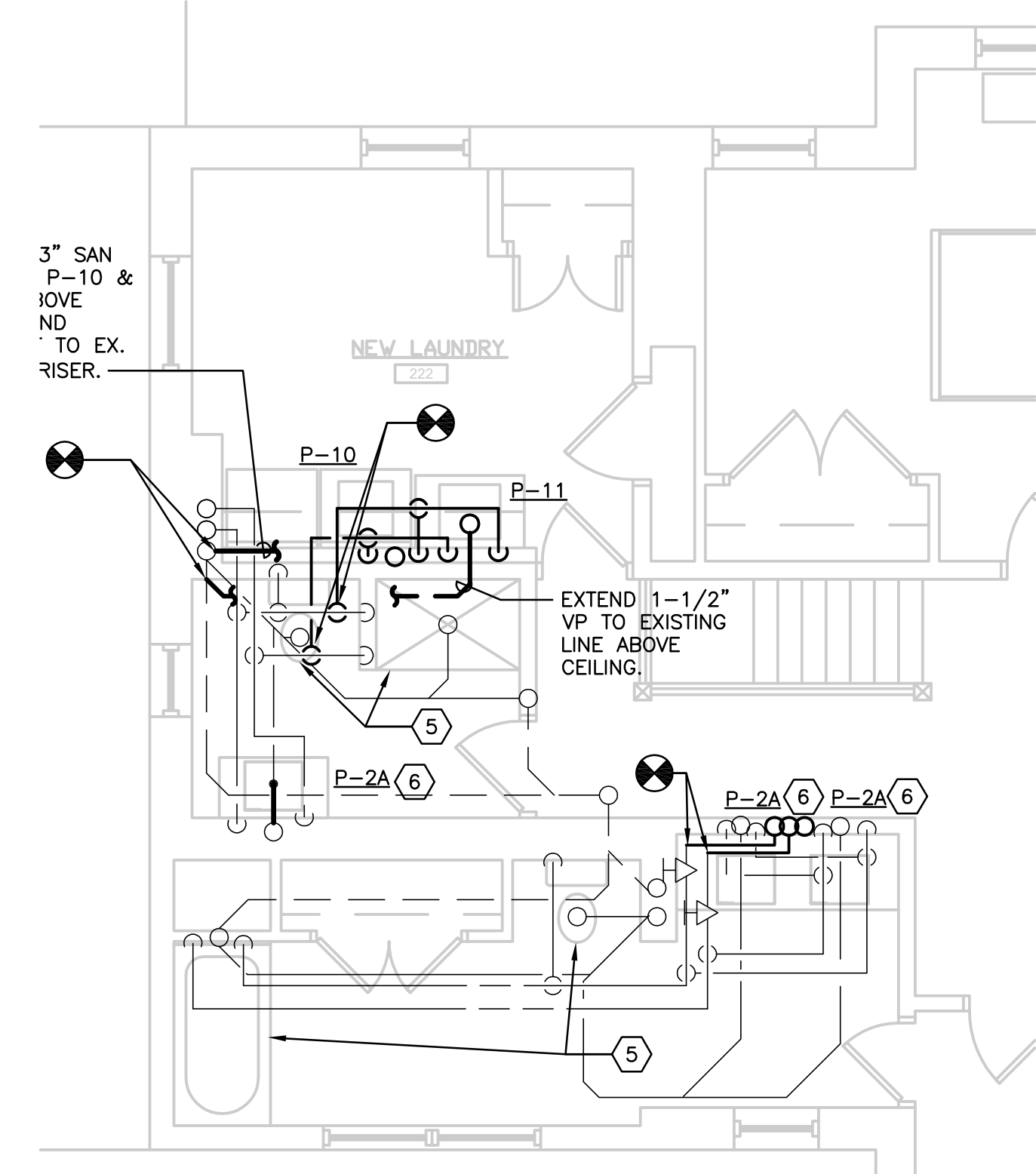
Project 10116 Date 5/09/14
Drawn by NN Checked by JAB
Drawing Number
OVERALL FLOOR PLANS - PLUMBING
P1.1
3 OF 5



① PART PLAN - NEW CATER/KITCHEN/HDCP TOILET
SCALE: 1/4" = 1'-0"



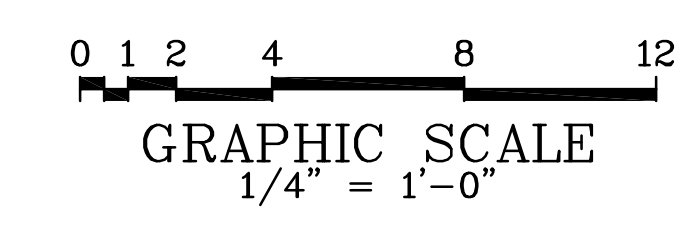
③ PART PLAN - GUEST BATH
SCALE: 1/4" = 1'-0"



② PART PLAN - NEW SECOND FLOOR LAUNDRY
SCALE: 1/4" = 1'-0"

SPECIFIC NOTES (APPLY TO THIS DRAWING WHERE INDICATED):

- ① CW DOWN
- ② CW, HW & SAN DOWN
- ③ COORDINATE FINAL LOCATION OF OPEN SITE DRAIN WITH ICE MACHINE DRAIN LOCATION.
- ④ VP UP.
- ⑤ EXISTING PLUMBING FIXTURE TO REMAIN
- ⑥ NEW PLUMBING FIXTURE, MAKE PIPING CONNECTIONS TO EXISTING ROUGH-INS.



RENOVATIONS AND ADDITIONS TO
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SHIPPENSBURG, PENNSYLVANIA 17257



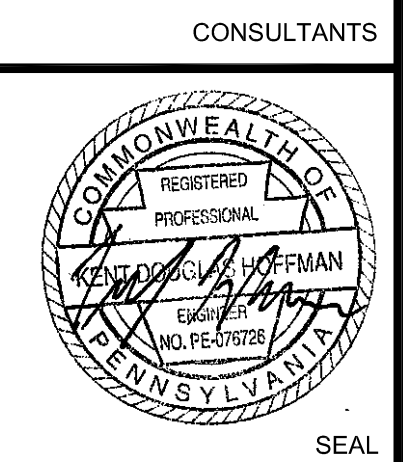
PROJECT NO. SU - 2010/6B

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AS BUILT REVISIONS			

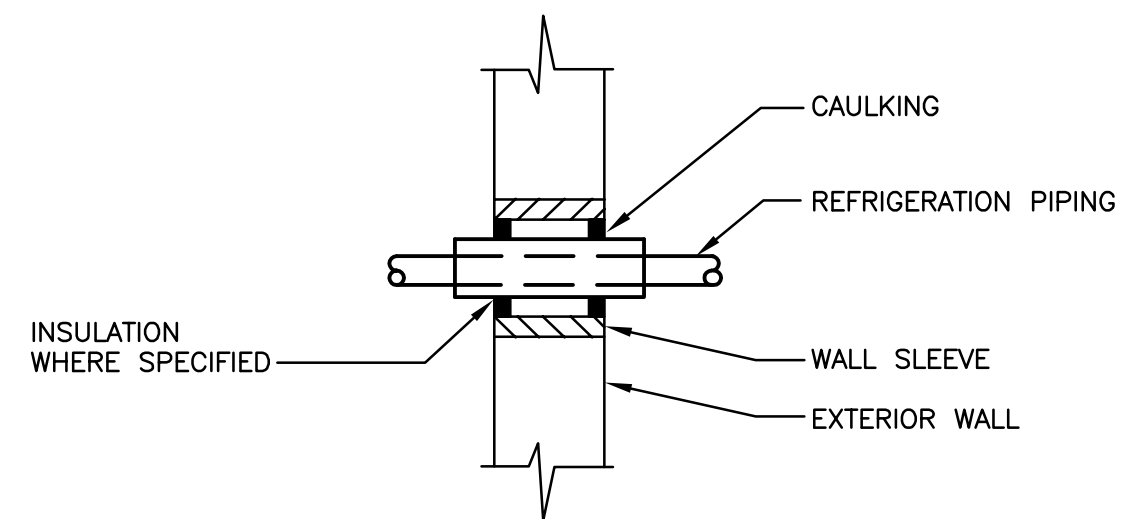
COMMONWEALTH OF PENNSYLVANIA
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HARRISBURG, PENNSYLVANIA

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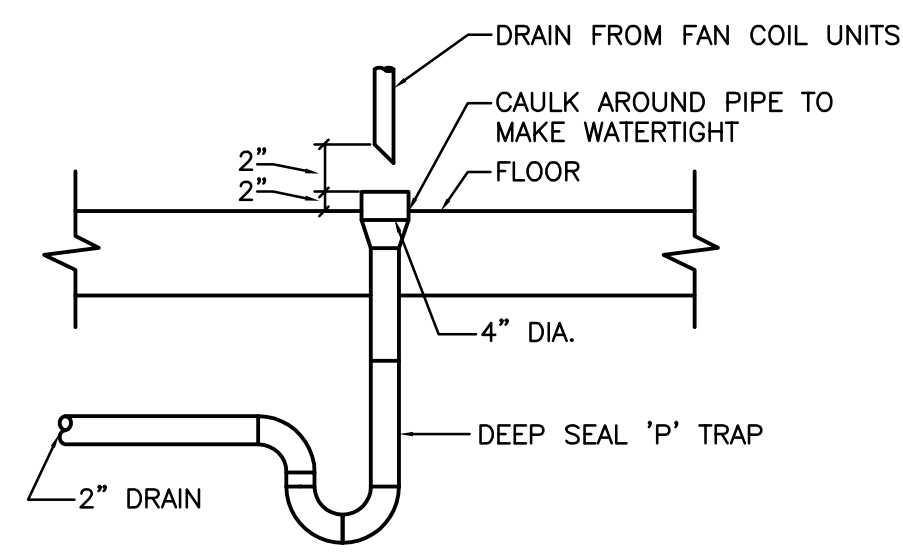
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410-625-4874 Voice 410-625-4874 Fax



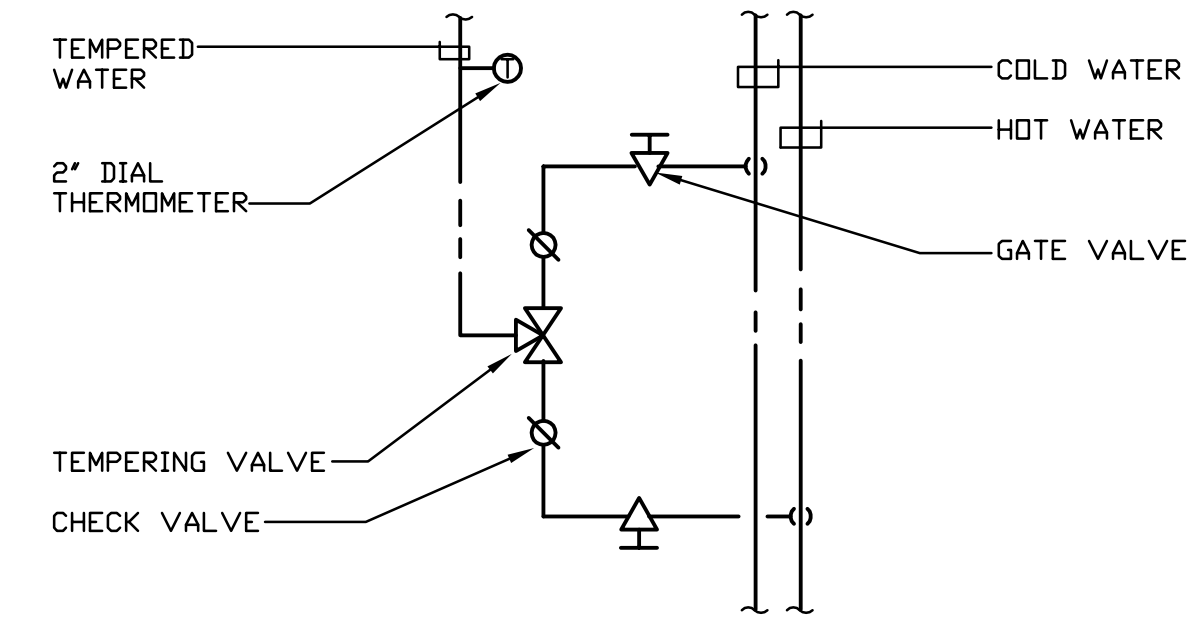
Project: 10116 Date: 5/09/14
Drawn by: NN Checked by: JAB
Drawing Number:
PART PLANS - NEW PLUMBING
P2.1
4 OF 5



① DETAIL - PIPE SLEEVE
SCALE: NOT TO SCALE



② DETAIL - TYPICAL OPEN SITE DRAIN
SCALE: NOT TO SCALE

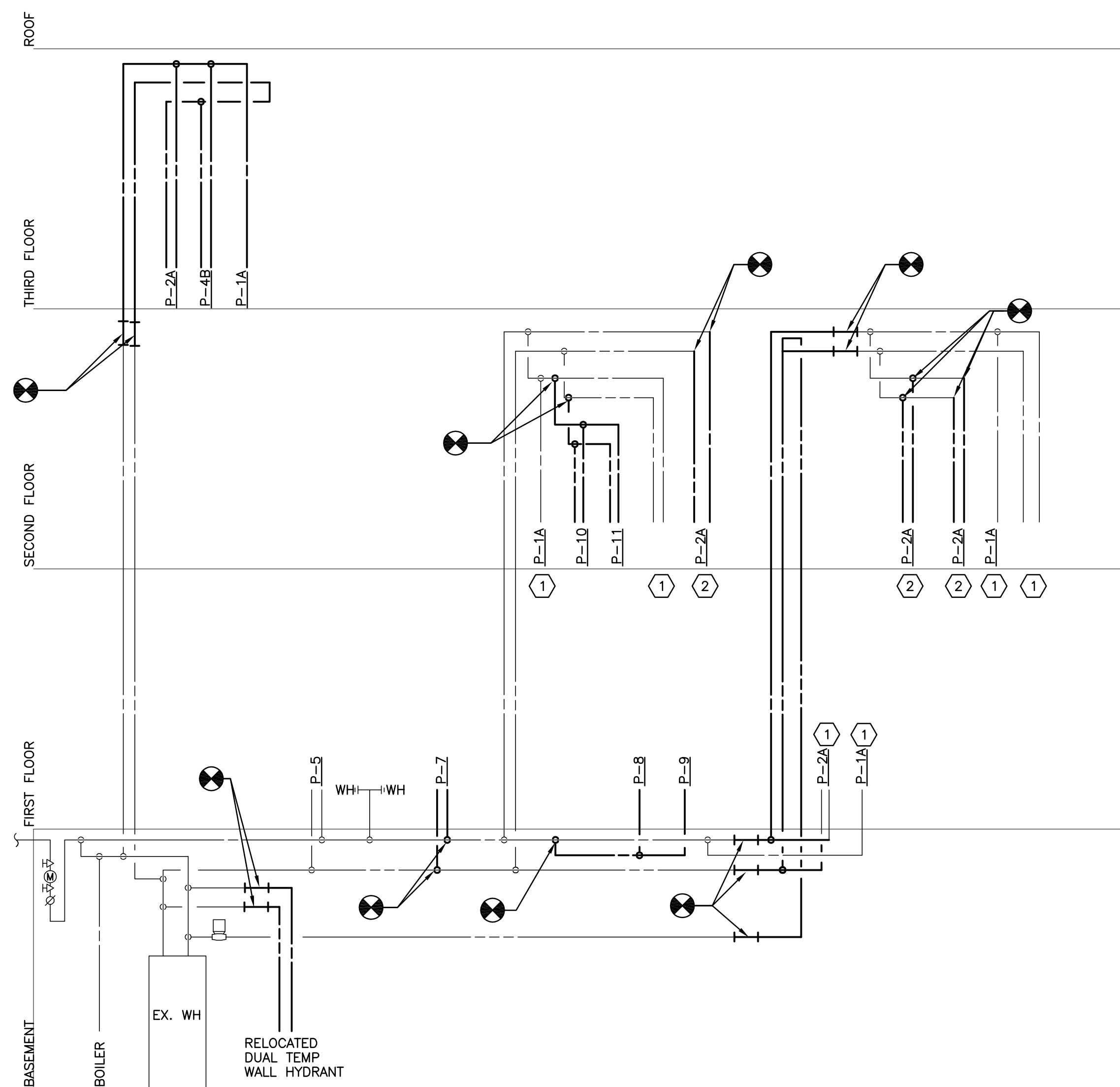


③ DETAIL - TEMPERING VALVE PIPING
SCALE: NOT TO SCALE

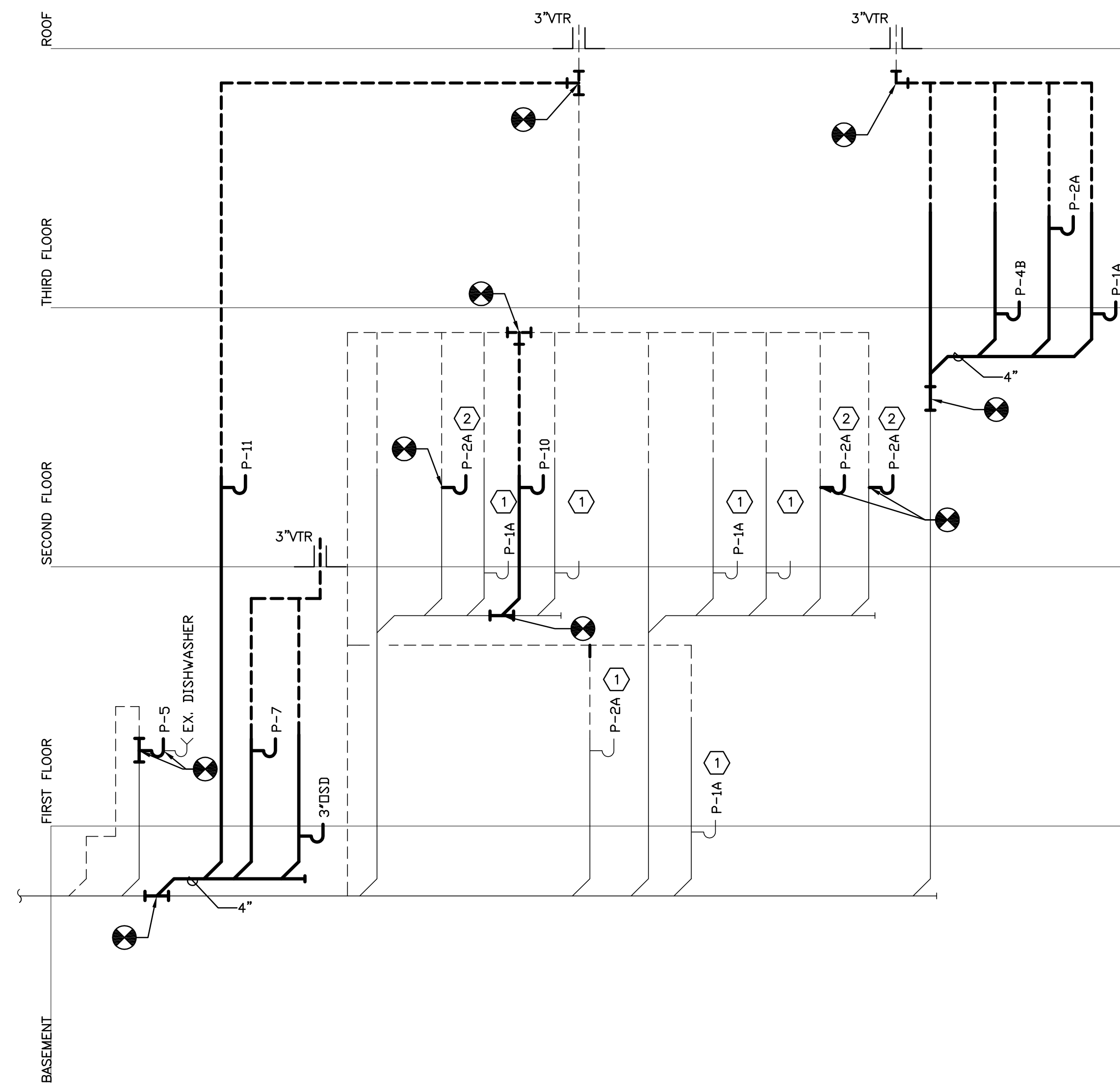
PROVIDE A NEW AND EXISTING TEMPERING VALVE AT EACH FIXTURE WITH A HOT WATER CONNECTION.

SPECIFIC NOTES (APPLY TO THIS DRAWING WHERE INDICATED)

- ① EXISTING PLUMBING FIXTURE TO REMAIN
- ② NEW PLUMBING FIXTURE, MAKE PIPING CONNECTIONS TO EXISTING ROUGH-INS.



DOMESTIC WATER RISER DIAGRAM
SCALE: NOT TO SCALE



SANITARY RISER DIAGRAM
SCALE: NOT TO SCALE

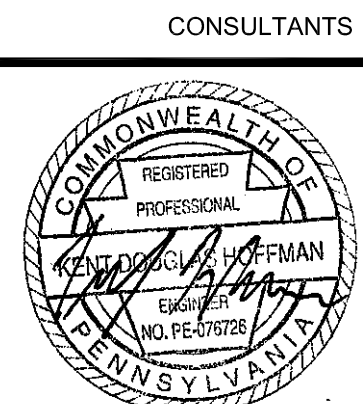


PROJECT NO. SU - 2010/6B

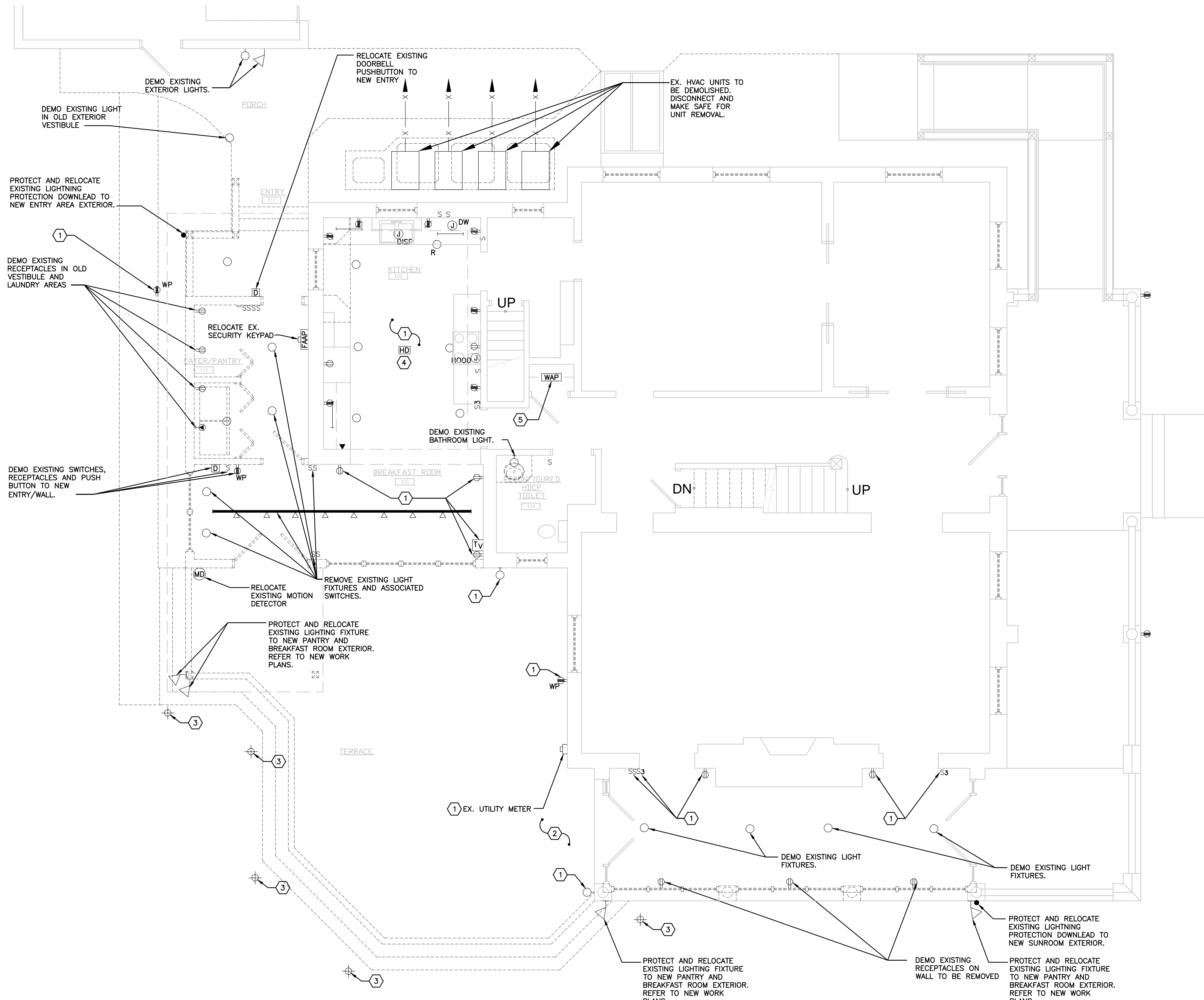
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AS BUILT REVISIONS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:		Drawing Number	
Professional:		PLUMBING DETAILS & RISER DIAGRAMS	
Consultant:		P3.1	
Authorized by:		5 OF 5	

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

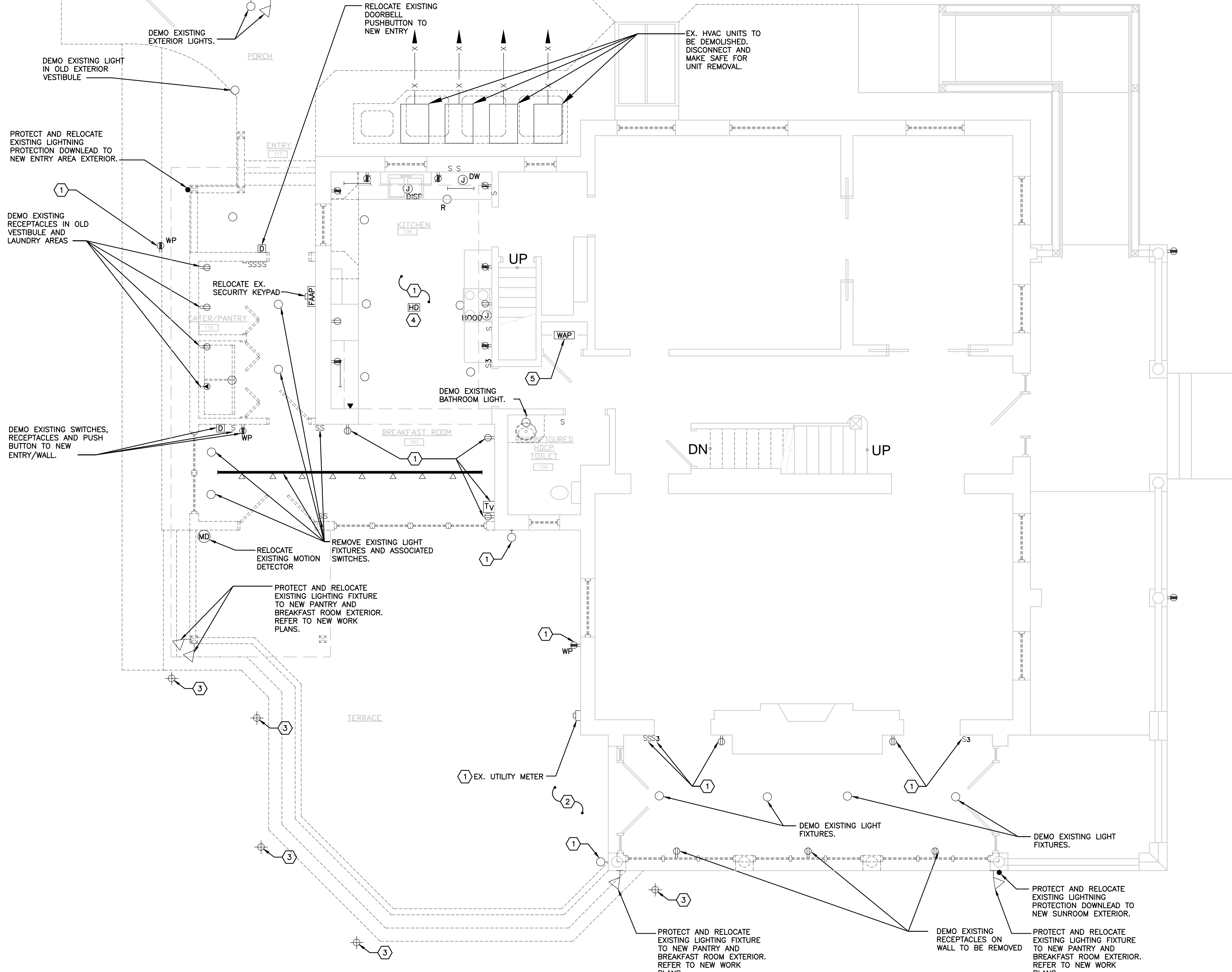
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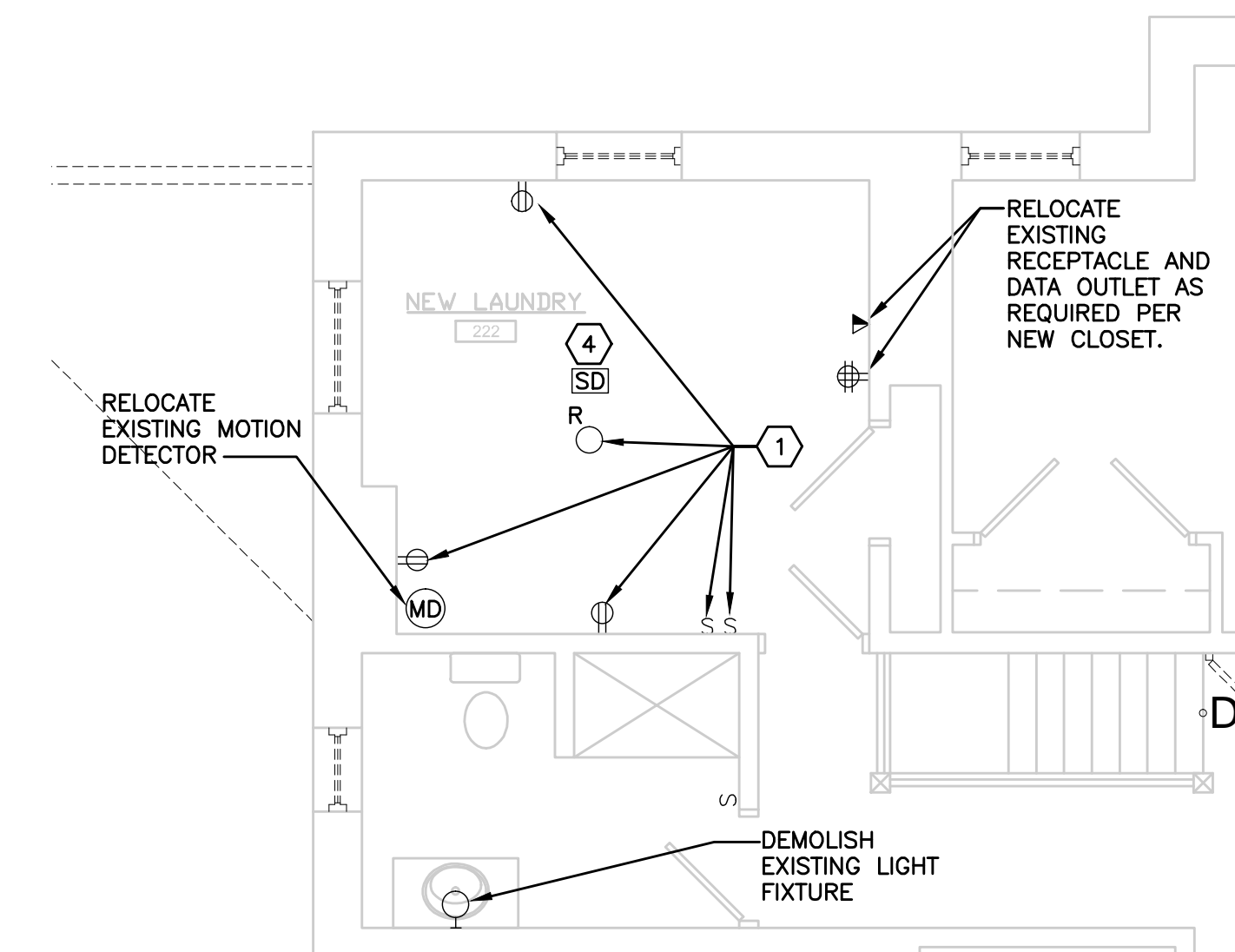
Hoffman Borowski & Associates, LLC
Consulting Engineers
226 West Market Street, York, Pennsylvania 17401
410-462-4622 Voice 410-462-4674 Fax 717-843-3449 Fax



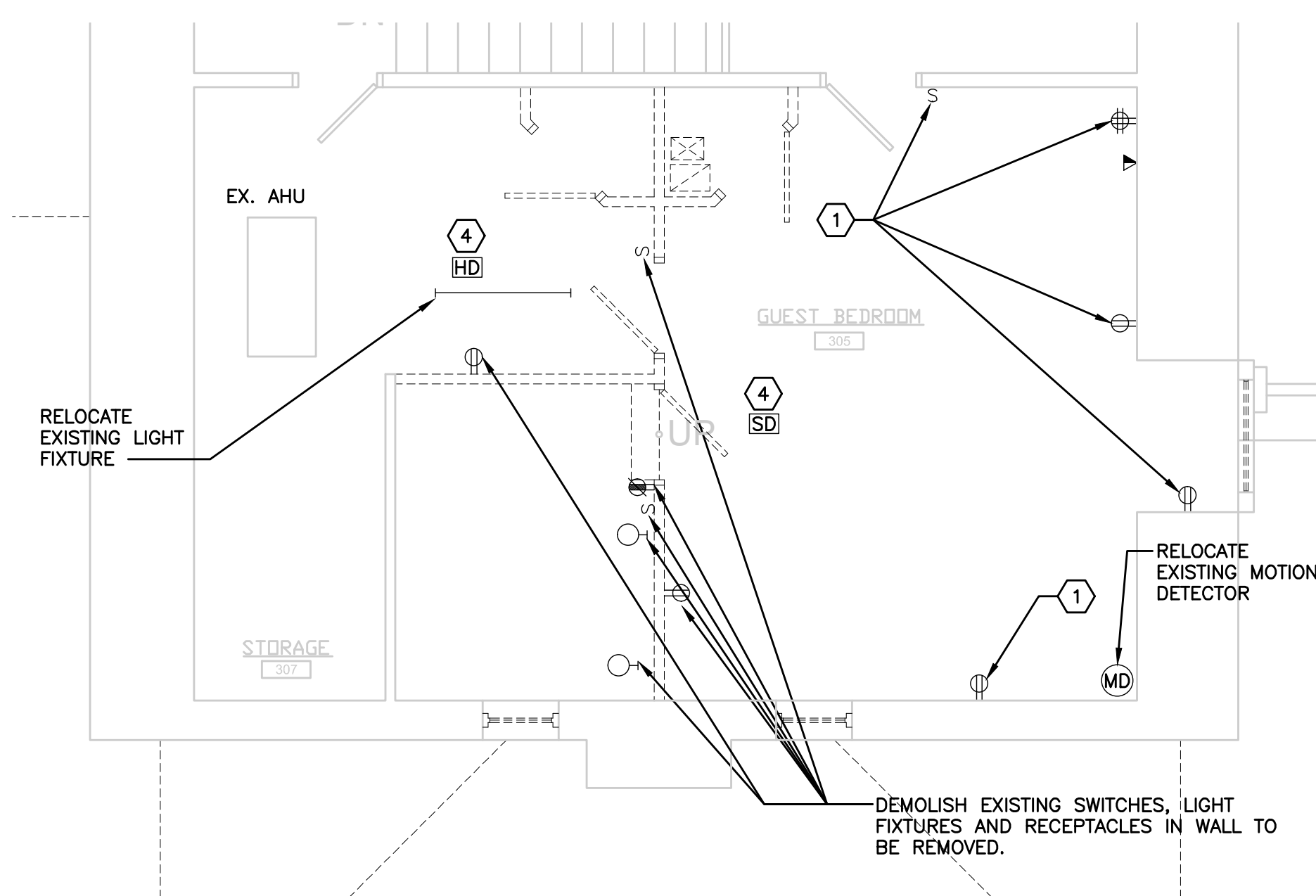
① PART PLAN - DEMO - FIRST FLOOR
SCALE: 1/4" = 1'-0"



② PART PLAN - DEMO - SECOND FLOOR MASTER
SCALE: 1/4" = 1'-0"



③ PART PLAN - DEMO - SECOND FLOOR LAUNDRY AND BATH
SCALE: 1/4" = 1'-0"

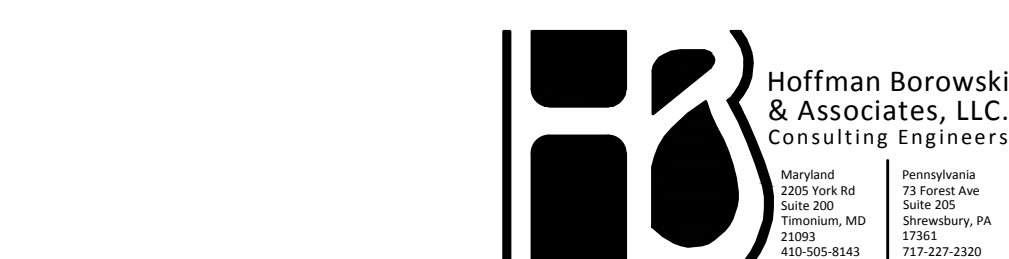


④ PART PLAN - DEMO - THIRD FLOOR
SCALE: 1/4" = 1'-0"
NOTE: PROVIDE ADD ALTERNATE PRICING FOR RENOVATION WORK IN THE GUEST BEDROOM AND BATHROOM. INCLUDE REPLACEMENT OF HEAT PUMP IN STORAGE 307 IN BASE BID.

SPECIFIC NOTES (APPLY TO THIS DRAWING WHERE INDICATED):

- ① EXISTING TO REMAIN.
- ② EXISTING MAIN SERVICE FEEDERS TO/FROM METER AND PANELS 1L AND 1R IN THIS AREA. PROTECT AND MAINTAIN FEEDERS IN THIS AREA DURING DEMOLITION, EXCAVATION AND CONSTRUCTION OF EXPANDED SUNROOM AND PATIO.
- ③ REMOVE EXISTING GROUND-MOUNTED SPOTLIGHTS.
- ④ REPLACE EXISTING FIRE ALARM DEVICE.
- ⑤ REMOVE AND RELOCATE EXISTING WAP TO JUST INSIDE THE DOOR OF THE MASTER STUDY.

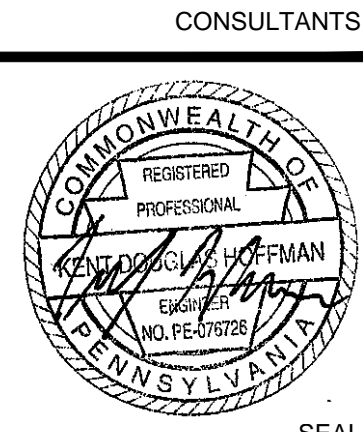
RENOVATIONS AND ADDITIONS TO
 MARTIN HOUSE
 SHIPPENSBURG, PENNSYLVANIA 17257



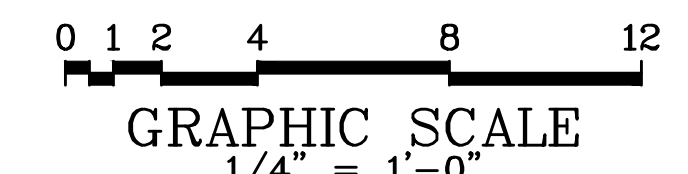
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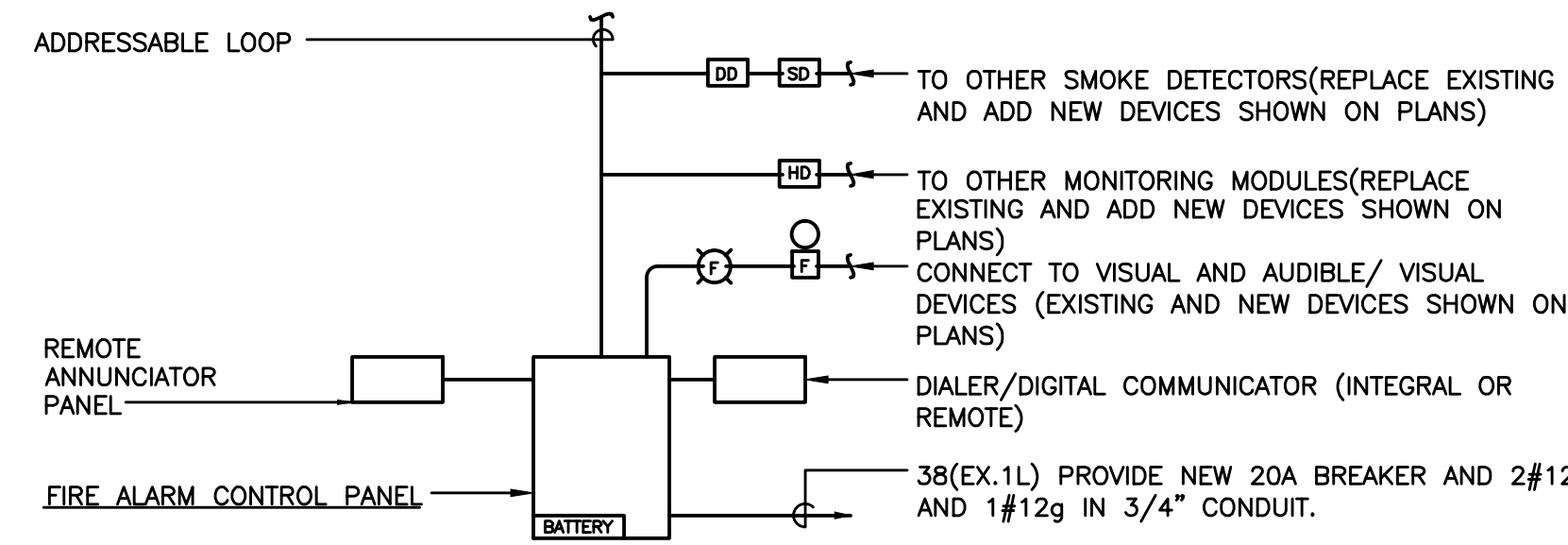
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System Rep:	Project: 10116	Date: 5/08/14
Professional:	Drawn by: JEB	Checked by: GBF
Consultant:	Drawing Number: PART PLANS - DEMO - ELECTRICAL	
Authorized by:	DE1.1 2 OF 9	





FIRE ALARM RISER DIAGRAM
NOT TO SCALE

- NOTES:**
- FIRE ALARM SYSTEM EQUIPMENT IS SHOWN ON THE RISER, HOWEVER, WIRING VARIES BETWEEN MANUFACTURERS. THE WIRING AND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 - PROVIDE SMOKE DETECTOR AT FIRE ALARM CONTROL PANEL LOCATION.
 - COORDINATE FINAL LOCATION OF ANNUNCIATOR WITH LOCAL FIRE MARSHAL. AS A BASIS OF DESIGN, ANNUNCIATOR SHALL BE LOCATED AT SIDE ENTRY (AS INDICATED ON PLANS).
 - PROVIDE (1) 4 PAIR CAT5E TELEPHONE CABLE IN 3/4" CONDUIT FROM FIRE ALARM DIGITAL COMMUNICATOR TO MAIN TELEPHONE BACKBOARD LOCATION.
 - MINIMIZE DISTURBANCE TO WALLS AND CEILINGS WHERE INSTALLING NEW FIRE ALARM WIRING AND DEVICES. NOTIFY ARCHITECT OF ANY REQUIRED WALL, FLOOR OR CEILING CUTS PRIOR TO STARTING WORK.

ELECTRICAL LEGEND

NOTES:
1. MOUNTING HEIGHTS SHALL BE TO THE CENTER OF THE DEVICE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

- S SINGLE POLE SWITCH - M.H. 48" A.F.F.
- S3 THREE-WAY SWITCH - M.H. 48" A.F.F.
- S4 FOUR-WAY SWITCH - M.H. 48" A.F.F.
- SF FAN SWITCH - M.H. 48" A.F.F.
- ST TIMER SWITCH (0 TO 15 MINUTES UNLESS NOTED OTHERWISE) M.H. 48" A.F.F.
- SD DIMMER SWITCH - M.H. 48" A.F.F.
- SM MANUAL MOTOR STARTER WITH THERMAL OVERLOADS - M.H. 48" A.F.F.
- So OCCUPANCY SENSOR WALL SWITCH, WATT STOPPER #WS-200 - M.H. 48" A.F.F.
- SNL WALL SWITCH WITH NIGHT LIGHT - M.H. 48" A.F.F.
- OCN CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, WATT STOPPER #OT-355
- R RELAY FOR POWER TO OCCUPANCY SENSOR
- JN JUNCTION BOX FLUSH OR SURFACE MOUNTED ON WALL
- JN JUNCTION BOX MOUNTED FLUSH IN FLOOR
- JN JUNCTION BOX FLUSH OR SURFACE MOUNTED ON WALL
- WIRING IN OR ON CEILINGS AND WALLS, FOR BRANCH CIRCUITS, HASH MARKS INDICATE THE NUMBER OF CONDUCTORS IF MORE THAN THE DEFAULT OF 2 PLUS GROUND. SEE PANELBOARD SCHEDULE FOR WIRING METHOD, SIZES OF CONDUCTORS AND SIZES OF CONDUIT WHERE APPLICABLE.
- WIRING IN OR UNDER FLOOR OR SLAB, FOR BRANCH CIRCUITS, HASH MARKS INDICATE THE NUMBER OF CONDUCTORS IF MORE THAN THE DEFAULT OF 2 PLUS GROUND. SEE PANELBOARD SCHEDULE FOR SIZES OF WIRING AND CONDUITS.
- HOMERUN TO PANEL, HASH MARKS INDICATE THE NUMBER OF CONDUCTORS IF MORE THAN THE DEFAULT OF 2 PLUS GROUND. SEE PANELBOARD SCHEDULE FOR WIRING SIZES AND NUMBER OF CONDUCTORS.
- FAA FIRE ALARM AUDIBLE APPLIANCE WITH TOP 6" BELOW CEILING OR 90" A.F.F. MINIMUM.
- FAM FIRE ALARM MANUAL PULL STATION - M.H. 48" A.F.F.
- FAS FIRE ALARM AUDIBLE AND VISUAL SIGNALING APPLIANCE, SUBSCRIPT DENOTES CANDELLA RATING - M.H. 80" A.F.F. TO BOTTOM OF LENS.
- FASV FIRE ALARM VISUAL APPLIANCE, SUBSCRIPT DENOTES CANDELLA RATING - M.H. 80" A.F.F. TO BOTTOM OF LENS.
- FACP FIRE ALARM CONTROL PANEL - M.H. 6'-6" TO TOP
- FAPA FIRE ALARM ANNUNCIATOR PANEL - M.H. 54" A.F.F.
- HD THERMAL (HEAT) DETECTOR - CEILING MOUNTED
- HDW THERMAL (HEAT) DETECTOR - WALL MOUNTED
- SD SMOKE DETECTOR - CEILING MOUNTED
- SDW SMOKE DETECTOR - WALL MOUNTED
- DD DUCT TYPE SMOKE DETECTOR
- VS VALVE TAMPER SWITCH
- WF WATER FLOW SWITCH
- MM MONITOR MODULE
- CM CONTROL MODULE
- DOOR HOLD OPEN DEVICE - M.H. 6'-0" A.F.F.
- ES EMERGENCY SHUT DOWN PUSH BUTTON STATION WITH COVER MOUNTED AT 54" A.F.F.
- SS SINGLE STATION SMOKE DETECTOR - CEILING MOUNTED
- SSW SINGLE STATION SMOKE DETECTOR - WALL MOUNTED 4" BELOW CEILING TO TOP OF DETECTOR
- LF2'x4' LIGHTING FIXTURE - 2'x4' FLUORESCENT FIXTURE TYPE AS SPECIFIED
- LF2'x2' LIGHTING FIXTURE - 2'x2' FLUORESCENT FIXTURE TYPE AS SPECIFIED
- LFSTRIP LIGHTING FIXTURE - FLUORESCENT STRIP - TYPE AS SPECIFIED
- LFRECESS LIGHTING FIXTURE - RECESSED OR SURFACE MOUNTED - TYPE AS SPECIFIED
- LFWALL LIGHTING FIXTURE - WALL MOUNTED - TYPE AS SPECIFIED
- LF1'x4' LIGHTING FIXTURE - 1'x4' FLUORESCENT - TYPE AS SPECIFIED
- LFWALLMOUNT LIGHTING FIXTURE - WALL MOUNTED FLUORESCENT - TYPE AS SPECIFIED
- LFTRACK LIGHTING - TYPE AS SPECIFIED
- CF CEILING FAN - TYPE AS SPECIFIED
- EF EXHAUST FAN AND LIGHT COMBO - TYPE AS SPECIFIED
- EL EMERGENCY LIGHT - TYPE AS SPECIFIED
- ESIGN EXIT SIGN - UNIVERSAL MOUNTING, NUMBER OF SHADED AREAS INDICATE NUMBER OF FACES. ARROWS INDICATED DIRECTIONAL FACE.
- LFEMER LIGHTING FIXTURE - TYPE AS SPECIFIED - FILLED CIRCLE DENOTES ON EMERGENCY CIRCUIT, ON NIGHTLIGHT CIRCUIT OR WITH EMERGENCY BALLAST.
- LFSPOT LIGHTING FIXTURE - SPOT - TYPE AS SPECIFIED
- SN SPECIFIC NOTE - REFER TO SPECIFIC NOTES
- RV REVISION NOTE - REFER TO REVISION BLOCK
- SA SPECIFIC AREA NOTE - REFER TO SPECIFIC NOTES
- DR DUPLEX RECEPTACLE - NEMA 5-20R CONFIGURATION - M.H. 24" A.F.F.
- DRN DUPLEX RECEPTACLE - 5-20R NEMA CONFIGURATION GROUND FAULT INTERRUPT - M.H. 24" A.F.F.
- DRDBL DOUBLE DUPLEX RECEPTACLE - NEMA CONFIGURATION - 5-20R - M.H. 24" A.F.F.
- DRSNG SINGLE RECEPTACLE - NEMA L14-20R, 240V 20 AMP - M.H. 24" A.F.F.
- DRHALF DUPLEX RECEPTACLE - 5-20R NEMA CONFIGURATION M.H. 24" A.F.F. HALF CONTROLLED BY SWITCH.
- FLUSH FLUSH CEILING MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R CONFIGURATION.
- WP "WP" SUBSCRIPT INDICATES RECEPTACLE WITH WEATHERPROOF COVER PLATE.
- DLG DIAGONAL LINE DENOTES RECEPTACLE MOUNTED AT 42" A.F.F. OR 8" ABOVE COUNTER
- MD MOTION DETECTOR (SECURITY SYSTEM)
- WR CEILING MOUNTED WIRELESS REPEATER

- MOTOR - HORSEPOWER INDICATED WHERE APPLICABLE
- NON-FUSED SAFETY DISCONNECT OR SWITCH. SIZE AS NOTED. M.H. 60" A.F.F.
- FUSED SAFETY DISCONNECT OR SWITCH. SIZE AS NOTED M.H. 60" A.F.F.
- ENCLOSED MAGNETIC MOTOR STARTER. NEMA SIZE 1 STARTER UNLESS OTHERWISE NOTED. M.H. 5'-6" A.F.F.
- ENCLOSED COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT. NEMA SIZE 1 STARTER UNLESS OTHERWISE NOTED M.H. 5'-6" A.F.F.
- PANELBOARD - SURFACE MOUNTED, RECESSED MOUNTED - M.H. 6'-6" TO TOP
- TRANSFORMER
- MULTI OUTLET ASSEMBLY WITH TYPES AND QUANTITIES OF OUTLETS AS SHOWN/NOTED. M.H. 42" A.F.F. OR 8" ABOVE COUNTER.
- DOORBELL PUSH BUTTON STATION - M.H. 48" A.F.F.
- TELEPHONE OUTLET BOX WITH BLANK COVER PLATE AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE. M.H.= 18" A.F.F.
- TELEPHONE OUTLET BOX WITH VISUAL FLASHING LIGHT WITH BLANK COVER PLATE AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE. M.H.= 24" A.F.F.
- TELEPHONE OUTLET BOX WITH BLANK COVER PLATE AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE. "W" INDICATES MOUNTING HEIGHT AT 54" A.F.F.
- 3-PORT TELEPHONE/DATA OUTLET BOX WITH COVER PLATE AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE - M.H.= 18" A.F.F. (2) R4S AND (1) TYPE F.
- DATA OUTLET BOX WITH BLANK COVER PLATE AND 3/4" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE - M.H.= 18" A.F.F.
- ELECTRIC DOOR STRIKE
- PROGRAM BELL
- DOORBELL CHIME
- DOORBELL LIGHT
- SPEAKER - FLUSH CEILING MOUNTED
- SPEAKER - WALL MOUNTED
- TELEVISION OUTLET (SINGLE TAP) AT 18" A.F.F.
- TELEVISION SYSTEM CABLE SPLITTER
- P.A. SYSTEM CALL-IN STATION AT 48" A.F.F.
- CARD READER AT 48" A.F.F.
- GROUND - SUBSCRIPT DENOTES SIZE
- POWER SUPPLY
- DOOR LOCK
- DOUBLE DOOR LOCK
- DOOR CONTACT
- MOTION DETECTOR
- KEY PAD
- KEY LOCK
- REQUEST TO EXIT DEVICE
- MONITOR
- MULTIPLEXER
- CAMERA
- "KNOX BOX"
- PUSH PAD
- EMERGENCY CALL ANNUNCIATOR PANEL - M.H. 6'-6" TO TOP
- DIGITAL VIDEO RECORDER
- MULTIMEDIA CABINET
- ELECTRONIC KNOB WITH HINGES
- WIRELESS ACCESS POINT. CAT-6 CABLE FROM LOCATION INDICATED TO BASEMENT SERVER
- UL 924 EMERGENCY TRANSFER RELAY, BODINE GTD SERIES OR EQUAL


DEVICES AND CIRCUITRY SHOWN AS LIGHT LINEWEIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

DEVICES AND CIRCUITRY SHOWN AS LIGHT LINEWEIGHT AND WITH "X" DESIGNATES EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CURRENT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
DC	DIRECT CURRENT
DE/TD	DUAL ELEMENT/ TIME DELAY
DIAM	DIAMETER
E	EMERGENCY
EF	EXHAUST FAN
EMT	ELECTRIC METALIC TUBING
F	FUSED OR FUSIBLE
FLA	FULL LOAD AMPS
FSS	FUSED SAFETY SWITCH
FT	FEET
G OR GRD	GROUND
H.I.D.	HIGH INTENSITY DISCHARGE
H.O.A.	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
KV	KILOVOLTS
KVA	KILO-VOLT-AMPERE
M.H.	MOUNTING HEIGHT
MCB	MAIN CIRCUIT BREAKER
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NFSS	NON FUSED SAFETY SWITCH
NL	NIGHT LIGHT
P	POLE
PH	PHASE
PVC	POLYVINYL CHLORIDE
PWR	POWER
REC	RECEPTACLE
RM	ROOM
UL	UNDERWRITERS LAB
V	VOLTS
W	WATTS
W/	WITH
WH	WATER HEATER
WP	WEATHER-PROOF




Shippensburg University
 PROJECT NO. SU - 2010/6B

Rev	Description	By	Date
AS BUILT REVISIONS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			

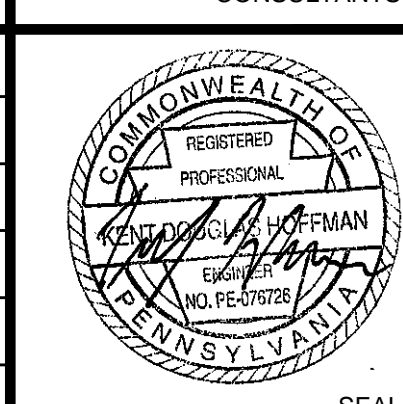
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Professional:	Drawn by JEB	Checked by GBF
Consultant:	Drawing Number	
Authorized by:	ELECTRICAL COVER SHEET	

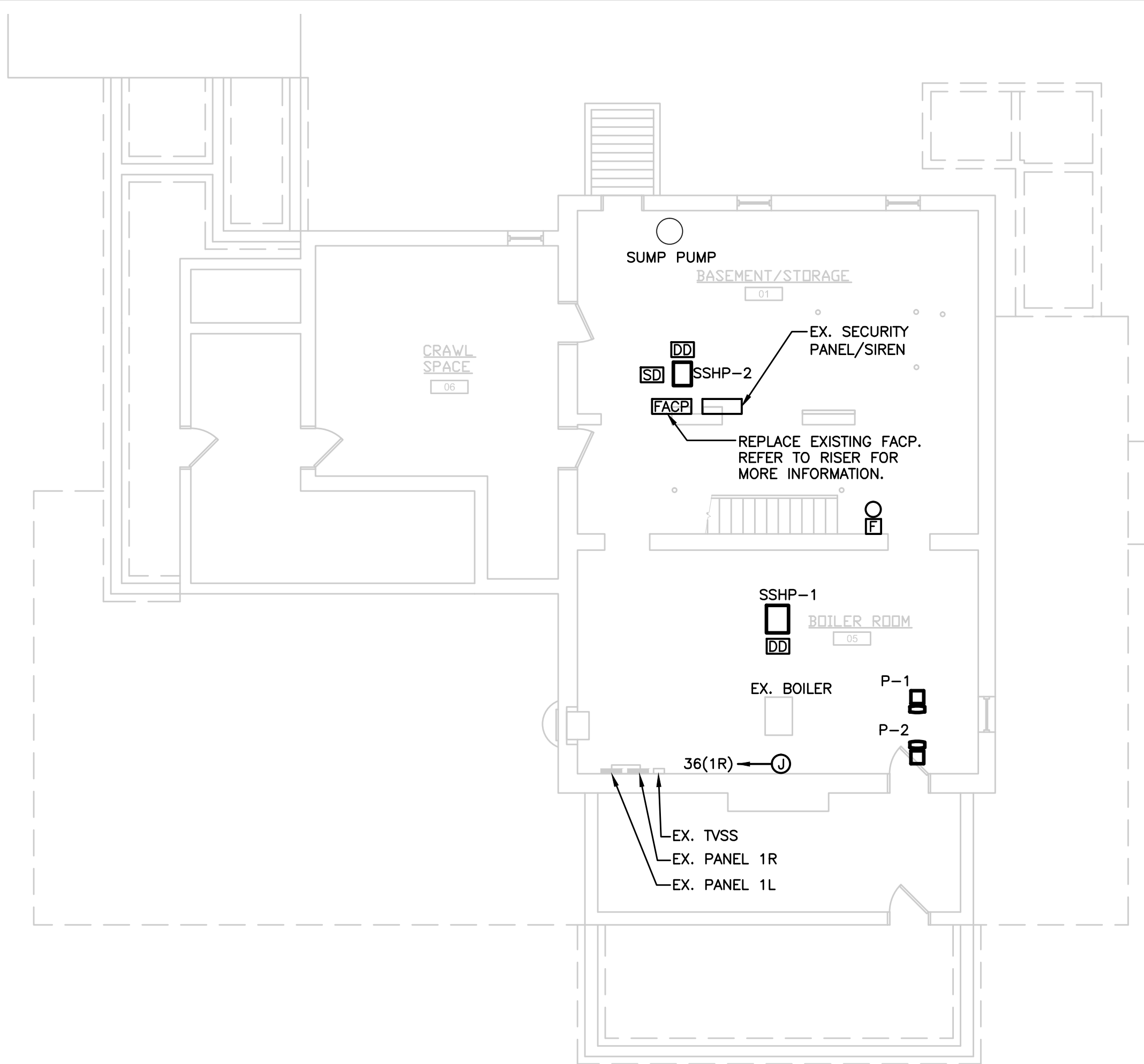
ELECTRICAL DRAWING LIST:

EO.1	ELECTRICAL COVER SHEET
E1.1	OVERALL FLOOR PLANS - ELECTRICAL
E4.1	PART PLANS - NEW ELECTRICAL
E6.1	ELECTRICAL RISERS AND SCHEDULES

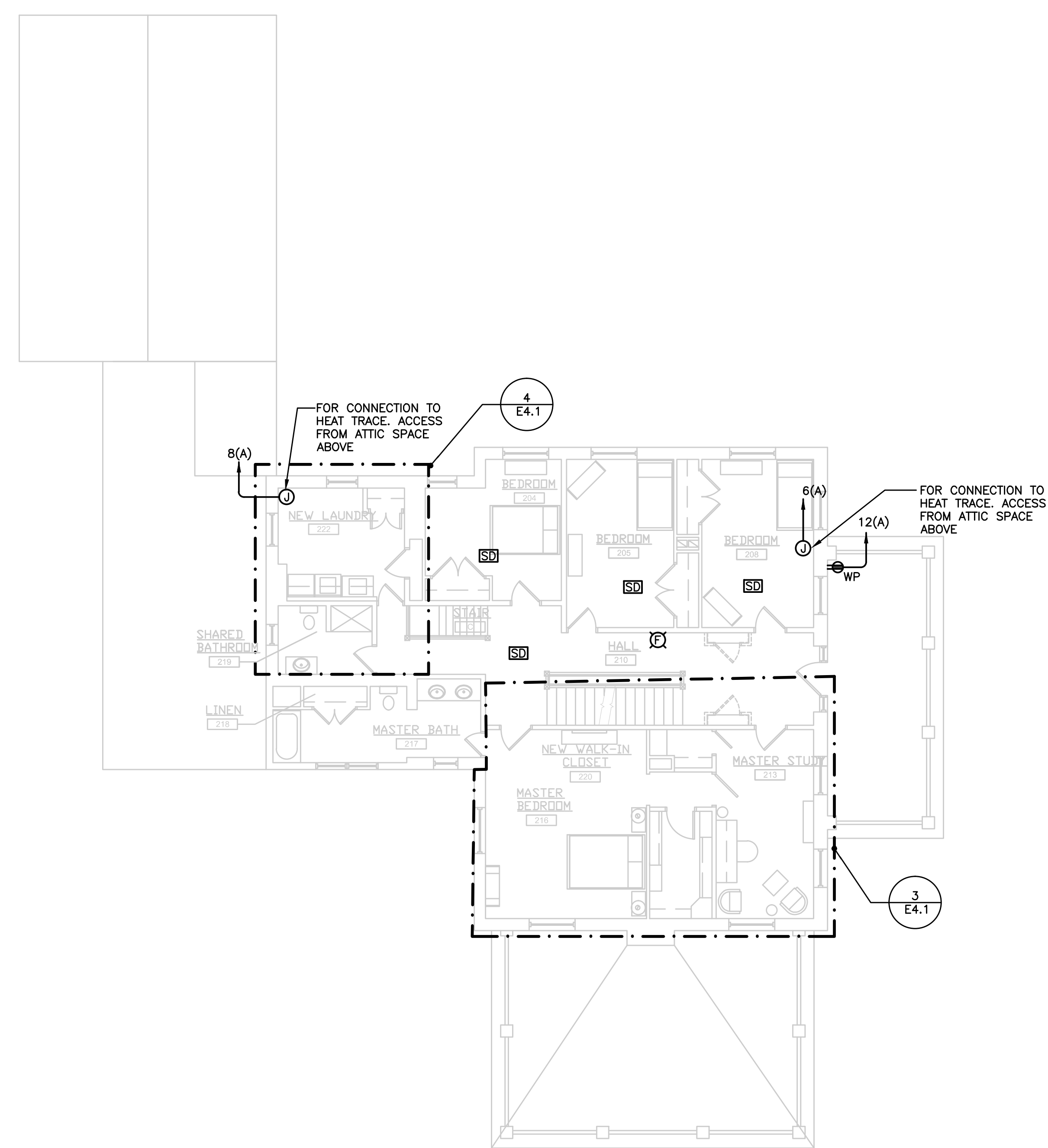
RENOVATIONS AND ADDITIONS TO
 MARTIN HOUSE
 SHIPPENSBURG, PENNSYLVANIA 17257

Murphy & Dittenhafer
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 805 North Charles Street, Baltimore, Maryland 21201
 410-628-4823 Voice 410-628-4824 Fax
 228 West Market Street, York, Pennsylvania 17401
 717-848-8827 Voice 717-848-2468 Fax

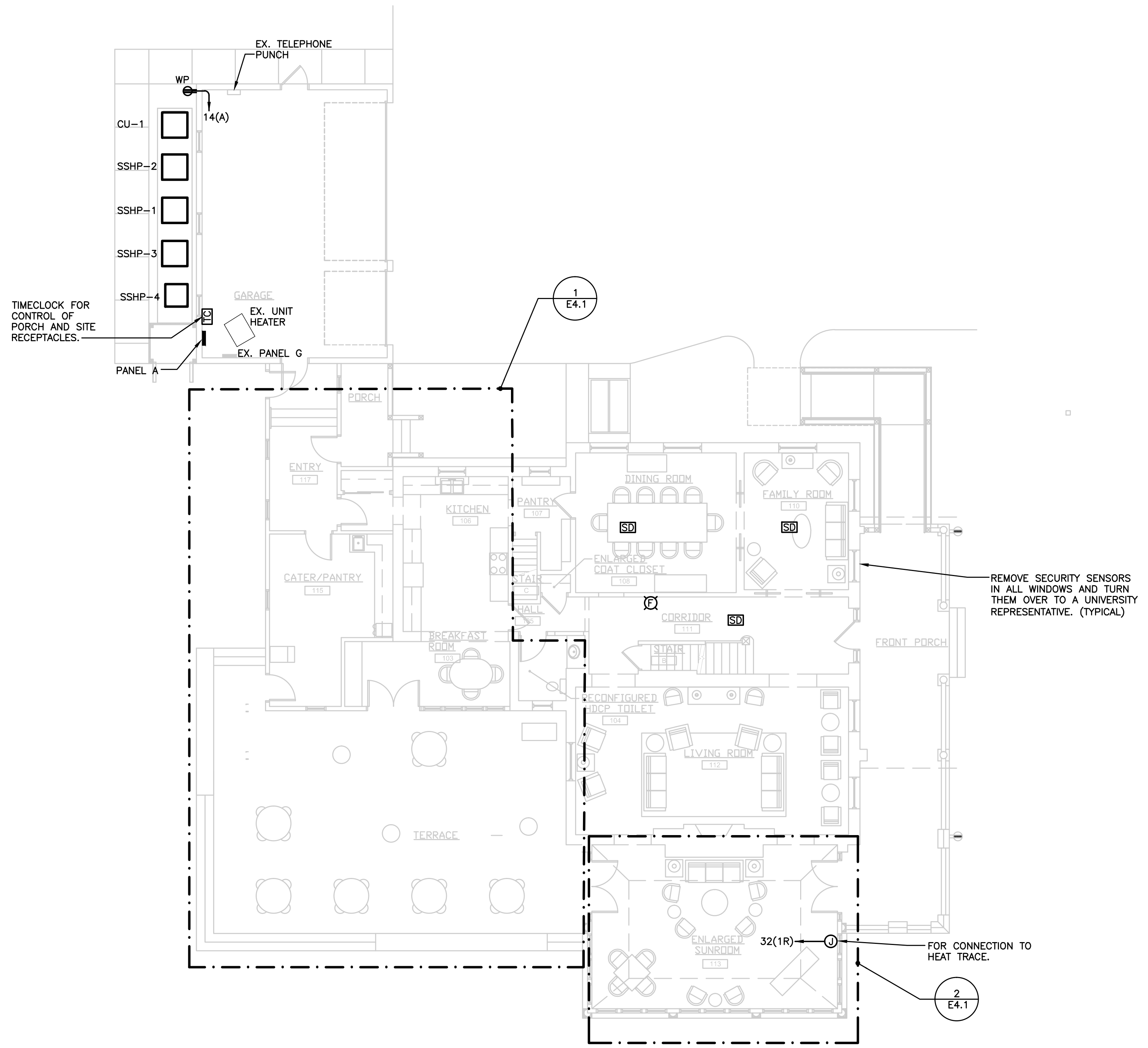




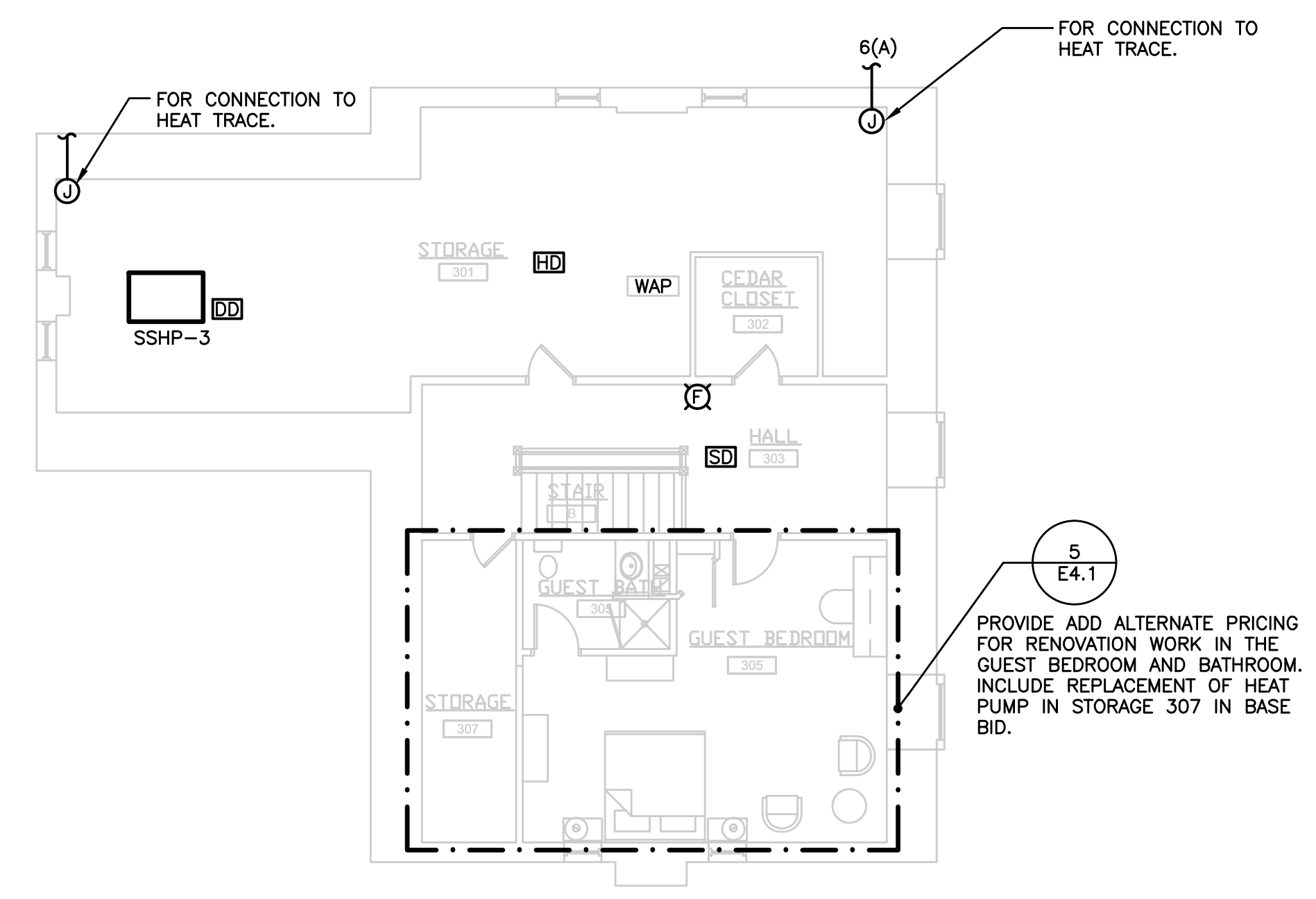
① BASEMENT FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"
 NOTE: REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR CIRCUITRY.



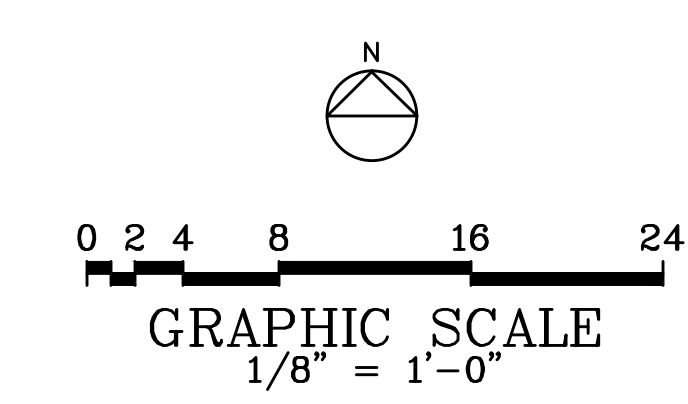
③ SECOND FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"
 NOTE: REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR CIRCUITRY.



② FIRST FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"
 NOTE: REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR CIRCUITRY.



④ THIRD FLOOR PLAN - ELECTRICAL
 SCALE: 1/8" = 1'-0"
 NOTE: REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR CIRCUITRY.



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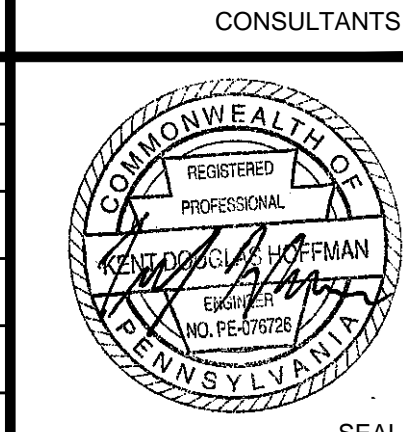
Rev	Description	By	Date
AS BUILT REVISIONS			

COMMONWEALTH OF PENNSYLVANIA
 STATE SYSTEM OF HIGHER EDUCATION
 HARRISBURG, PENNSYLVANIA

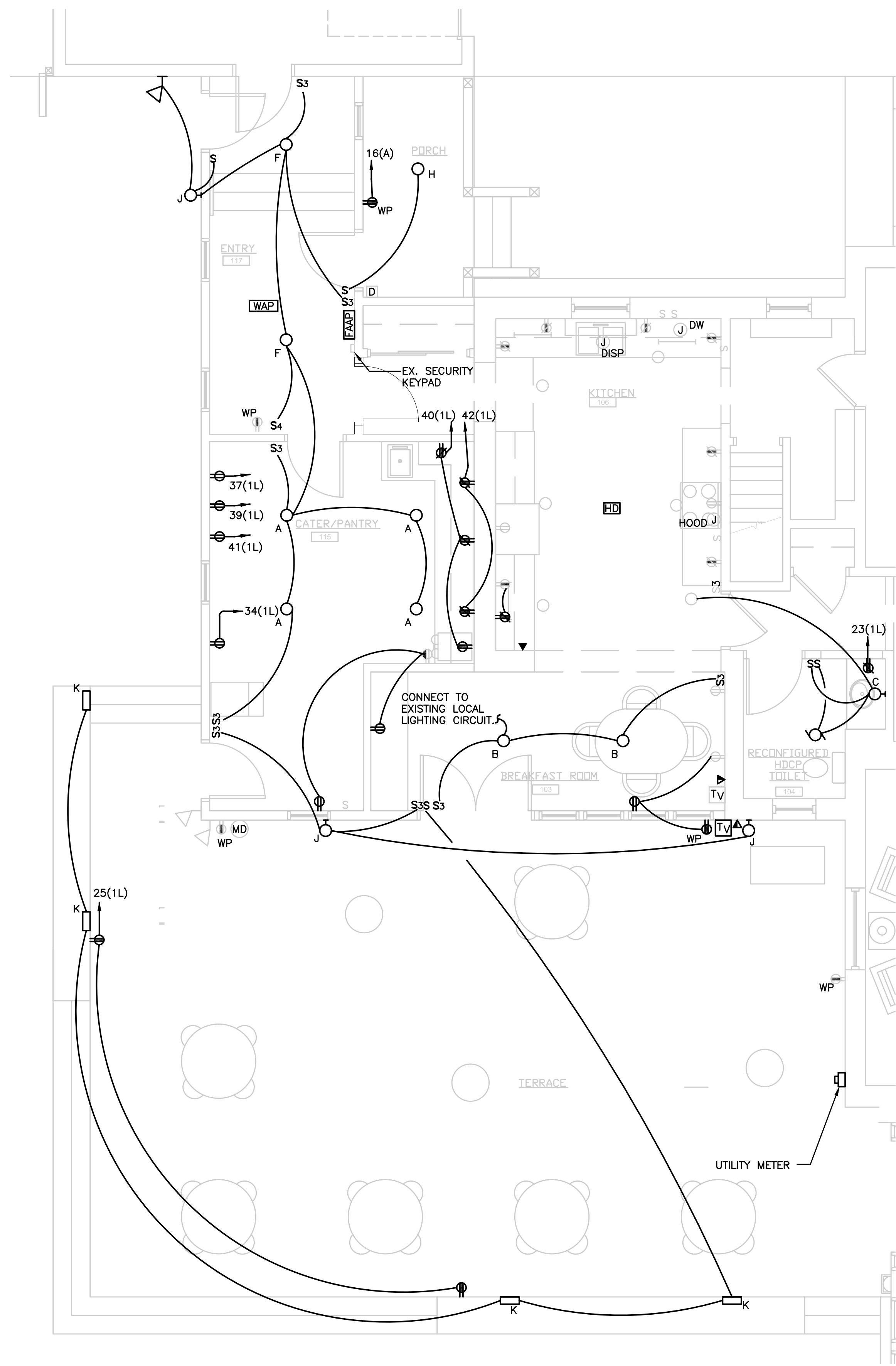
System Rep:
 Professional:
 Consultant:
 Authorized by:

RENOVATIONS AND ADDITIONS TO
 MARTIN HOUSE
 SHIPPENSBURG, PENNSYLVANIA 17257

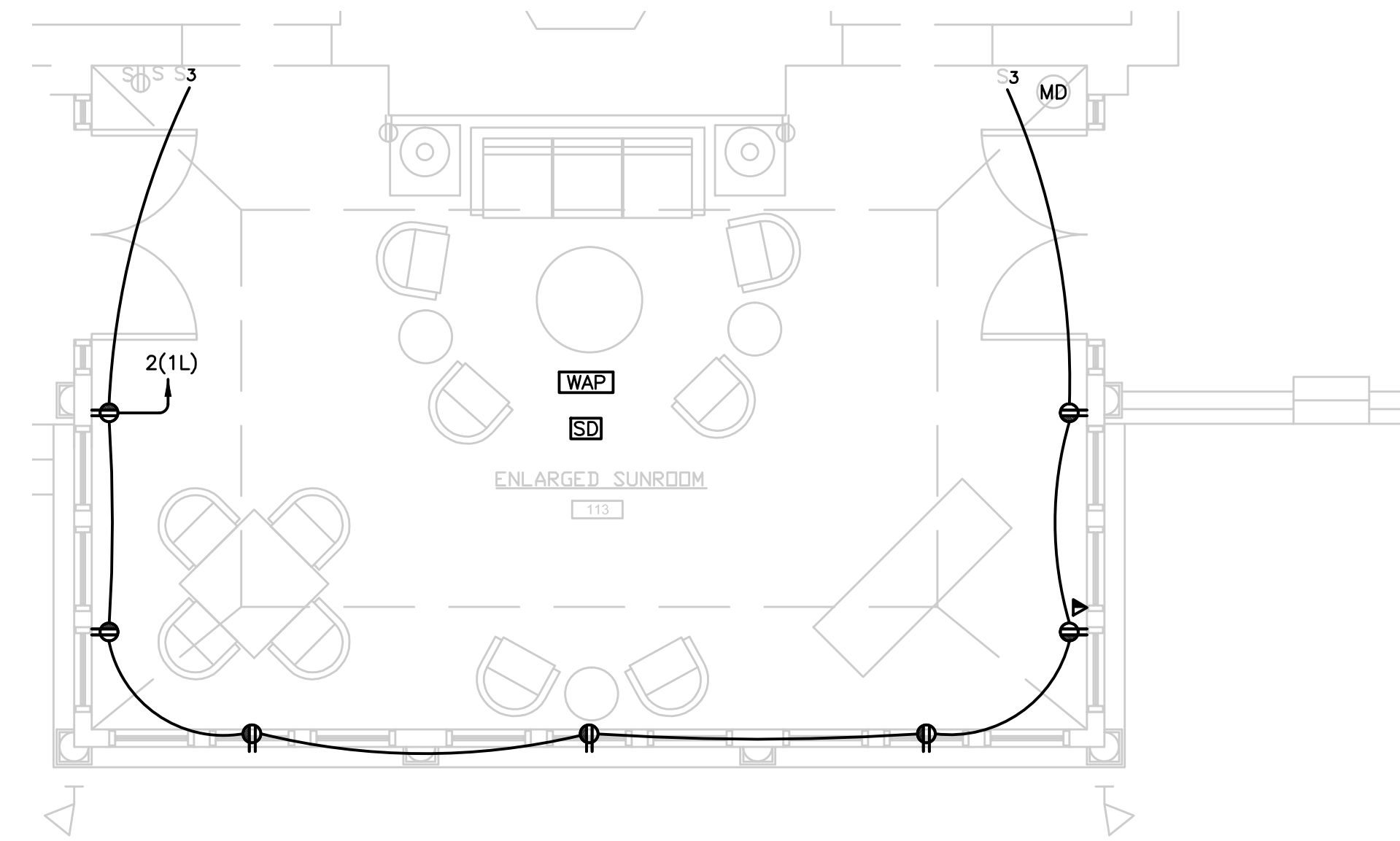
Murphy & Pittenhafer
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 806 North Charles Street, Baltimore, Maryland 21201
 410-628-4823 Voice 410-628-4824 Fax
 228 West Market Street, York, Pennsylvania 17401
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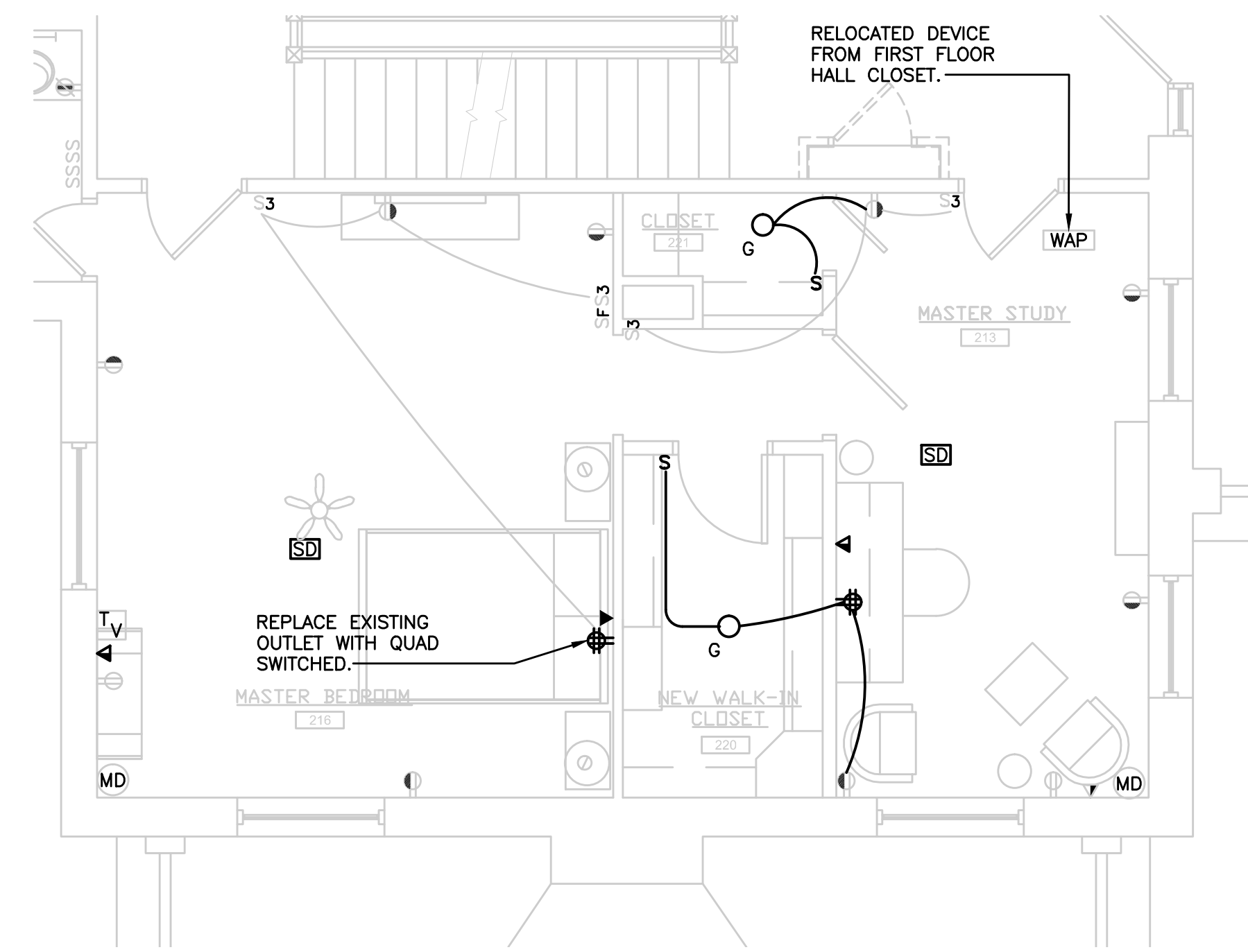
Project 10116 Date 8/28/14
 Drawn by JEB Checked by GBF
 Drawing Number
 OVERALL FLOOR PLANS
 - ELECTRICAL
 E1.1
 2 OF 5



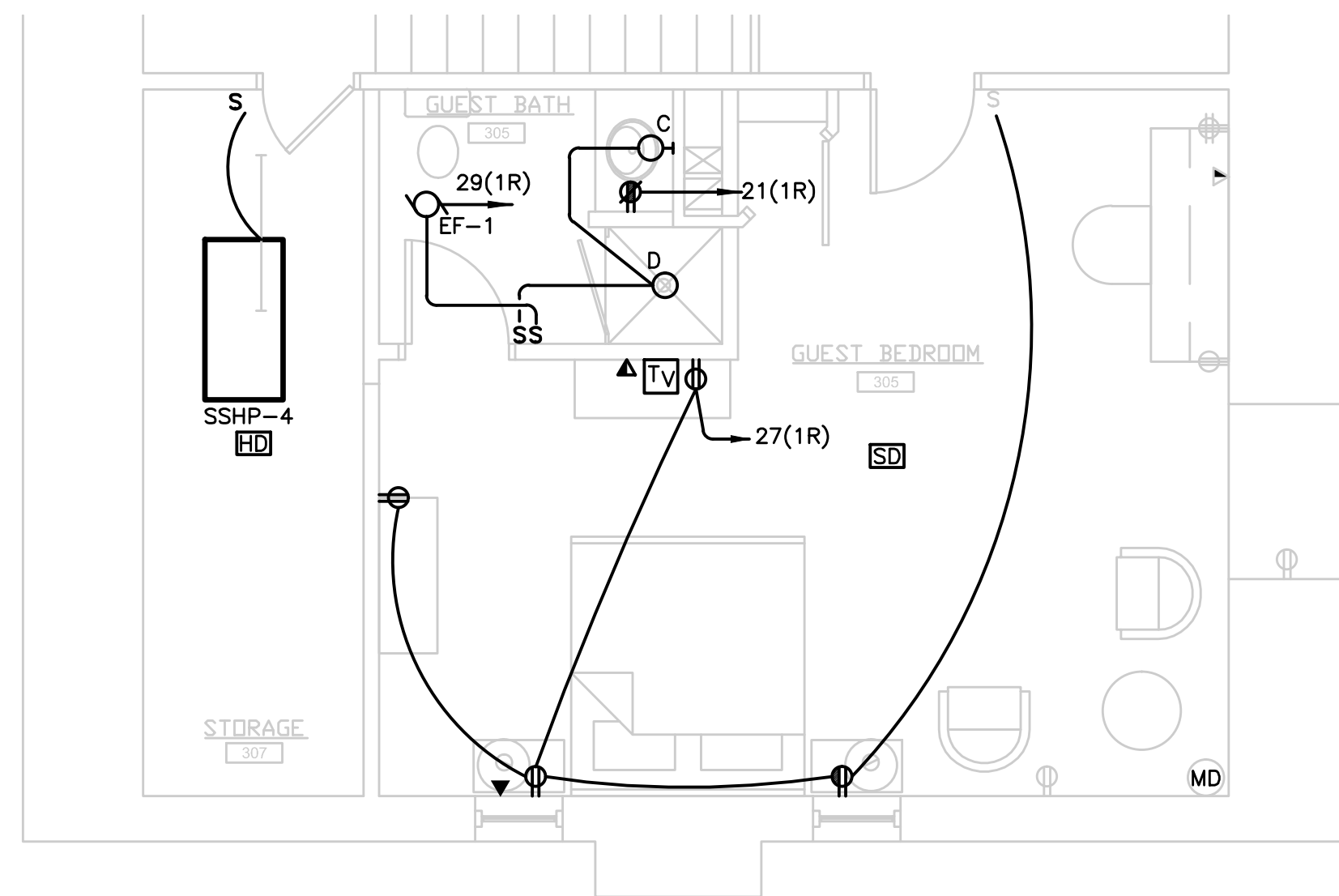
① PART PLAN – NEW CATER/PANTRY/ENTRY/KITCHEN
SCALE: 1/4" = 1'-0"



② PART PLAN – ENLARGED SUNROOM
SCALE: 1/4" = 1'-0"



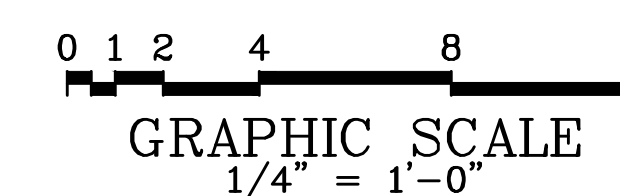
③ PART PLAN – NEW SECOND FLOOR MASTER
SCALE: 1/4" = 1'-0"



④ PART PLAN – NEW SECOND FLOOR LAUNDRY
SCALE: 1/4" = 1'-0"

⑤ PART PLAN – THIRD FLOOR
SCALE: 1/4" = 1'-0"

NOTE: PROVIDE ADD ALTERNATE PRICING FOR RENOVATION WORK IN THE GUEST BEDROOM AND BATHROOM. INCLUDE REPLACEMENT OF HEAT PUMP IN STORAGE 307 IN BASE BID.



Hoffman Borowski & Associates, LLC
Consulting Engineers

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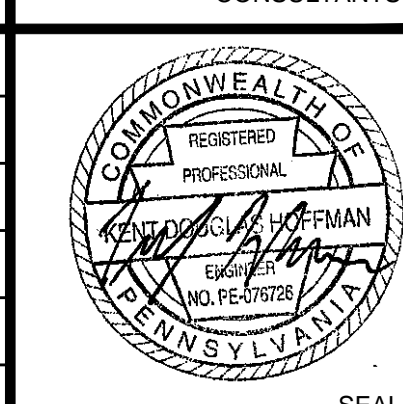
Rev	Description	By	Date
AS BUILT REVISIONS			
COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:			Drawing Number
Professional:			PART PLANS – NEW ELECTRICAL
Consultant:			E4.1
Authorized by:			7 OF 9

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

Murphy & Dittenhafer
A R C H I T E C T S

805 North Charles Street, Baltimore, Maryland 21201
410-625-4823 Voice 410-625-4824 Fax

228 West Market Street, York, Pennsylvania 17401
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EQUIPMENT CONNECTION SCHEDULE										CIRCUIT	REMARKS
DESIG.	TONS	LOAD	UNIT	VOLTS	PHASE	POLE	FSS @ UNIT	FRAME	FUSE		
AHU-1 (OUTDOOR)	5	34.5	A	208	1	2	60	50	50	1(A)	
AHU-1 (INDOOR)		3/4	HP	208	1	2	30	20	20	1(1R)	
AHU-2 (OUTDOOR)	3.5	29.2	A	208	1	2	60	45	45	5(A)	
AHU-2 (INDOOR)		1/2	HP	208	1	2	30	20	20	2(1R)	
AHU-3 (OUTDOOR)	2	34.5	A	208	1	2	60	50	50	9(A)	
AHU-3 (INDOOR)		3/4	HP	208	1	2	30	20	20	5(1R)	
AHU-4 (OUTDOOR)	4	11.9	A	208	1	2	30	20	20	13(A)	
AHU-4 (INDOOR)		1/3	HP	208	1	2	30	20	20	6(1R)	
CU-1	3	26	A	208	1	2	60	40	40	2(A)	
EF-1		60	W	120	1	MMS				4	
P-1		1-1/2	HP	120	1	1	30	30	30	9(1L)	
P-2		1-1/2	HP	120	1	1	30	30	30	9(1L)	

- NOTES:
- PROVIDE WP/GFI RECEPTACLE ON WITHIN 25' OF UNIT. CONNECT TO CIRCUIT INDICATED
 - COMBINATION STARTER UNLESS NOTED OTHERWISE.
 - INDOOR UNIT POWERED AND CONTROLLED VIA OUTDOOR UNIT.
 - CONNECT TO LOCAL LIGHTING CIRCUIT. CONTROL VIA WALL SWITCH.

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	VOLTS	LAMPS	TYPE	MAX W.	MOUNTING	MANU. / MODEL No. (OR APPROVED EQUAL)
A	6" RECESSED LED DOWNLIGHT. VERIFY FINISH OPTIONS WITH ARCHITECT. 3000K COLOR TEMP. INTEGRAL DRIVER.	120	1	LED	18	RECESSED	LIGHTOLIER C6L OR FOAL POINT FL6D OR VANTAGE ADVOPLED
B	DECORATIVE SURFACE MOUNTED FIXTURE FOR BREAKFAST ROOM AND LAUNDRY ROOM. PENDANT MOUNT, EMPIRE BRASS FINISH.	120	3	100W A19	300	PENDANT	QUOIZEL HA2820ER SERIES
C	DECORATIVE BATH WALL SCONCE 22-1/2" WIDE, EMPIRE BRASS FINISH.	120	3	100W A19	300	WALL/SURFACE	QUOIZEL HA86Q3ER SERIES
D	SURFACE MOUNTED SHOWER LIGHT UL LISTED FOR WET LOCATIONS. VERIFY FINISH OPTIONS WITH ARCHITECT. 3000K COLOR TEMP. INTEGRAL DRIVER.	120	1	LED	34	SURFACE	STONCO VR2LED OR PRISMA MAGICCLICK 20
F	DECORATIVE SURFACE MOUNTED FIXTURE FOR NEW ENTRY. FLUSH MOUNT, GEORGIAN BRONZE FINISH.	120	1	75W A19	75	SURFACE	TERON TV QUOIZEL B0182GN SERIES
G	DECORATIVE SURFACE MOUNTED FIXTURE FOR CLOSETS. 16", EMPIRE BRASS FINISH.	120	3	75W A19	225	SURFACE	QUOIZEL BU1617ER SERIES
H	DECORATIVE PENDANT LANTERN FIXTURE FOR PORCH. UL LISTED FOR WET LOCATIONS. 20" SATIN ANTIQUE BRASS FINISH, ETCHED GLASS PANELS.	120	1	42W CLF	42	PENDANT	BRASS LIGHT GALLERY LONDON 8" EXT WALL PENDANT SERIES
J	DECORATIVE WALL LANTERN FIXTURE FOR EXTERIOR. UL LISTED FOR WET LOCATIONS. 16" SATIN ANTIQUE BRASS FINISH, ETCHED GLASS PANELS.	120	1	42W CLF	42	WALL/SURFACE	BRASS LIGHT GALLERY LONDON 8" EXT WALL LIGHT SERIES
K	LOUVERED STEPLIGHT MOUNTED IN DECKING. UL LISTED FOR WET LOCATIONS. VERIFY FINISH WITH ARCHITECT. 4000K COLOR TEMP. INTEGRAL DRIVER.	120	1	LED	20	RECESSED	HADCO RSS2 OR GARDCO 941L OR LUCIFER SSL-ALED

EQUIPMENT CONNECTION SCHEDULE										CIRCUIT	REMARKS
DESIG.	TONS	LOAD	UNIT	VOLTS	PHASE	POLE	FSS @ UNIT	FRAME	FUSE		
AHU-1 (OUTDOOR)	5	34.5	A	208	1	2	60	50	50	1(A)	
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AHU-2 (OUTDOOR)	3.5	29.2	A	208	1	2	60	45	45	5(A)	
AHU-2 (INDOOR)		1/2	HP	208	1	2	30	20	20	2(1R)	
AHU-3 (OUTDOOR)	2	34.5	A	208	1	2	60	50	50	9(A)	
AHU-3 (INDOOR)		3/4	HP	208	1	2	30	20	20	5(1R)	
AHU-4 (OUTDOOR)	4	11.9	A	208	1	2	30	20	20	13(A)	
AHU-4 (INDOOR)		1/3	HP	208	1	2	30	20	20	6(1R)	
CU-1	3	26	A	208	1	2	60	40	40	2(A)	
EF-1		60	W	120	1	MMS				4	
P-1		1-1/2	HP	120	1	1	30	30	30	9(1L)	
P-2		1-1/2	HP	120	1	1	30	30	30	9(1L)	

- NOTES:
- COORDINATE LOCATION WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
 - CONTROL VIA TIMECLOCK.
 - GFI BREAKER.

EQUIPMENT CONNECTION SCHEDULE										CIRCUIT	REMARKS
DESIG.	TONS	LOAD	UNIT	VOLTS	PHASE	POLE	FSS @ UNIT	FRAME	FUSE		
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P-1		1-1/2	HP	120	1	1	30	30	30	9(1L)	
P-2		1-1/2	HP	120	1	1	30	30	30	9(1L)	

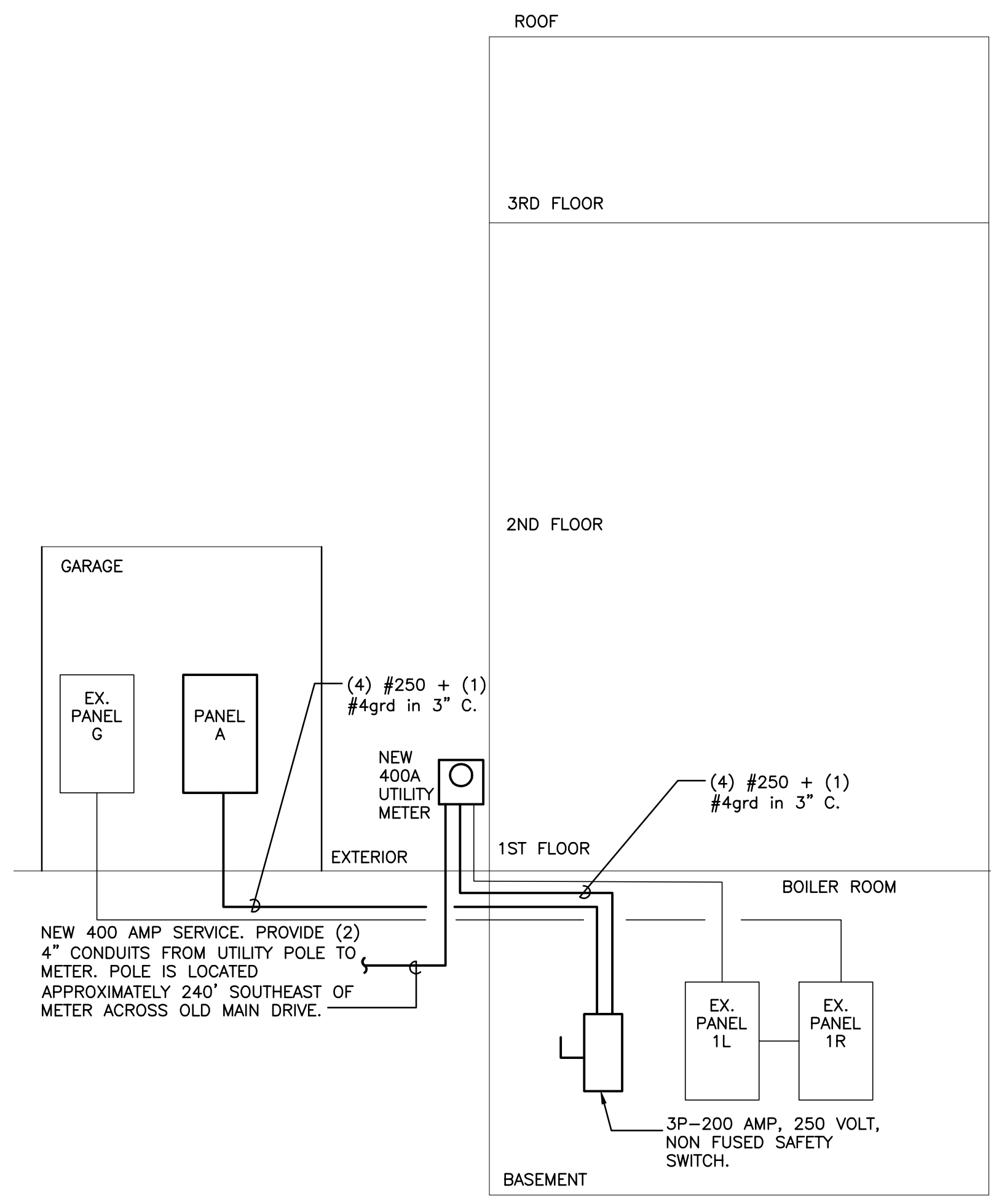
- NOTES:
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 - CONTROL VIA TIMECLOCK.
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EQUIPMENT CONNECTION SCHEDULE										CIRCUIT	REMARKS
DESIG.	TONS	LOAD	UNIT	VOLTS	PHASE	POLE	FSS @ UNIT	FRAME	FUSE		
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CU-1	3	26	A	208	1	2	60	40	40	2(A)	
EF-1		60	W	120	1	MMS				4	
P-1		1-1/2	HP	120	1	1	30	30	30	9(1L)	
P-2		1-1/2	HP	120	1	1	30	30	30	9(1L)	

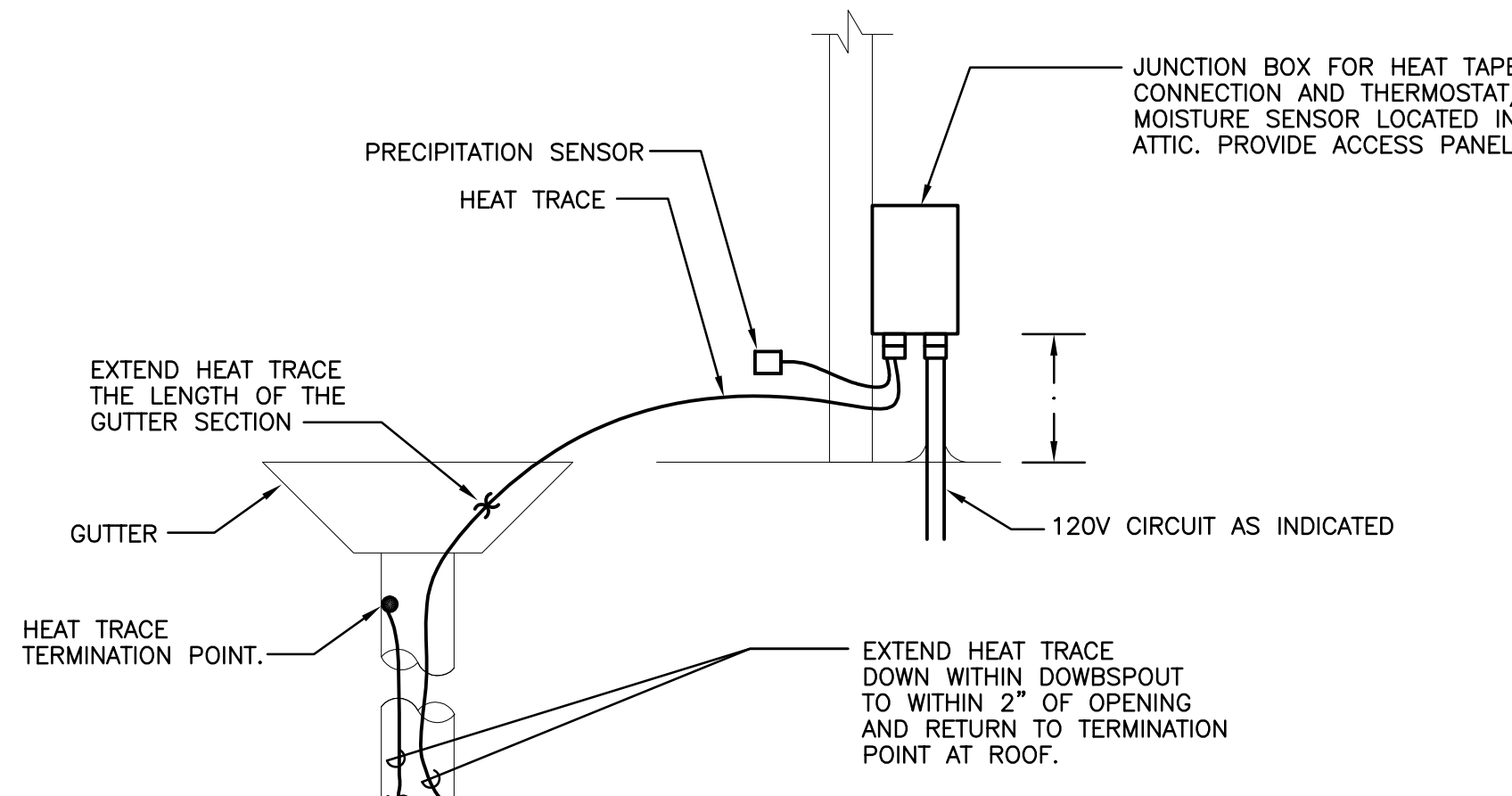
- NOTES:
- GFI BREAKER.

EQUIPMENT CONNECTION SCHEDULE										CIRCUIT	REMARKS
DESIG.	TONS	LOAD	UNIT	VOLTS	PHASE	POLE	FSS @ UNIT	FRAME	FUSE		
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P-1		1-1/2	HP	120	1	1	30	30	30	9(1L)	
P-2		1-1/2	HP	120	1	1	30	30	30	9(1L)	

- NOTES:
- GFI BREAKER.



1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE



2 DETAIL - TYPICAL HEAT TRACE JUNCTION BOX
SCALE: NOT TO SCALE

RENOVATIONS AND ADDITIONS TO
MARTIN HOUSE
SHIPPENSBURG, PENNSYLVANIA 17257

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Hoffman Borowski & Associates, LLC
Consulting Engineers

Shippensburg University
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COMMONWEALTH OF PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION HARRISBURG, PENNSYLVANIA			
System Rep:		Drawing Number	
Professional:		ELECTRICAL RISERS AND SCHEDULES	
Consultant:		Authorized by:	

CONSULTANTS

Project 10116 Date 5/09/14
Drawn by JEB Checked by GBF

E6.1
9 OF 9