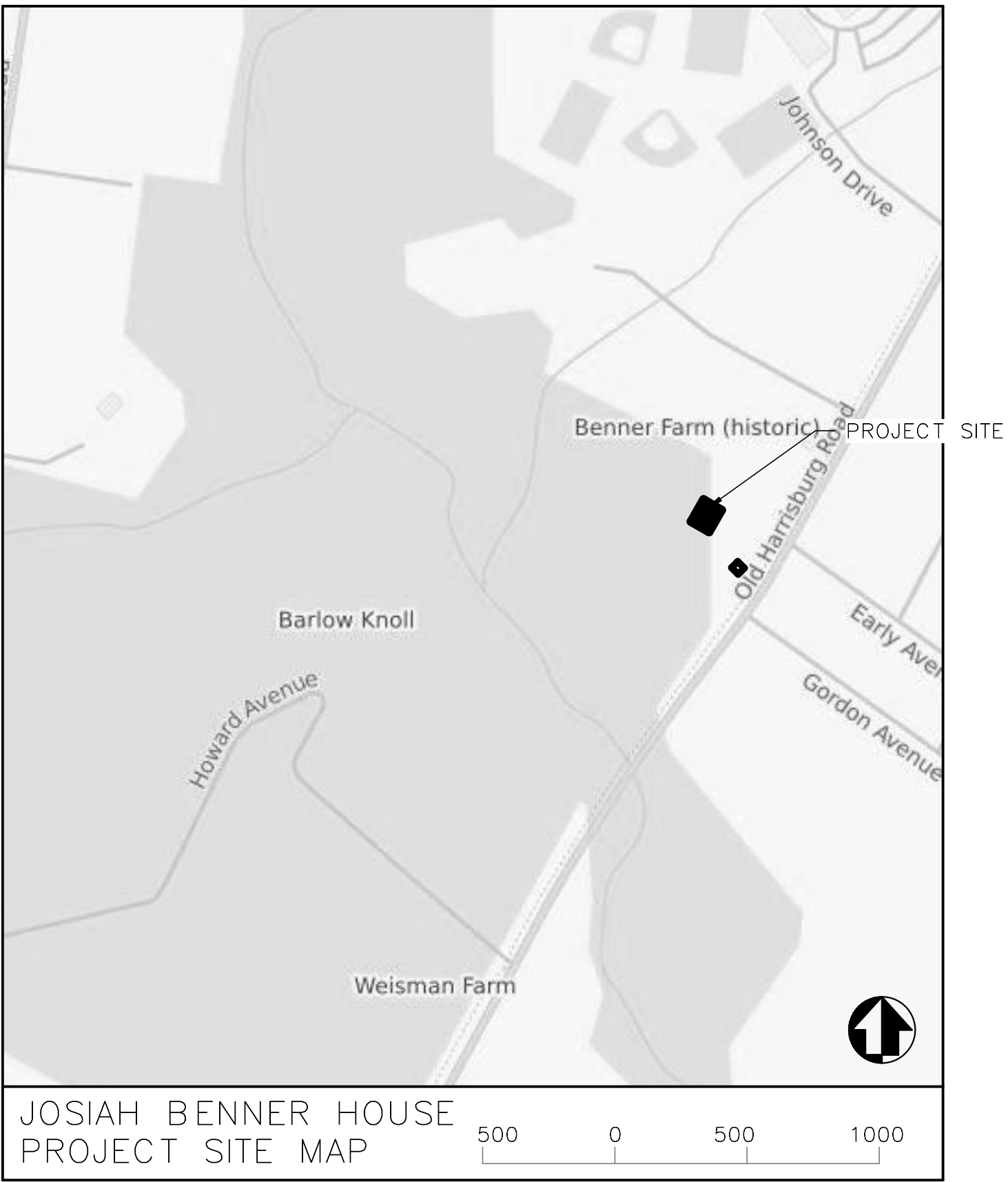
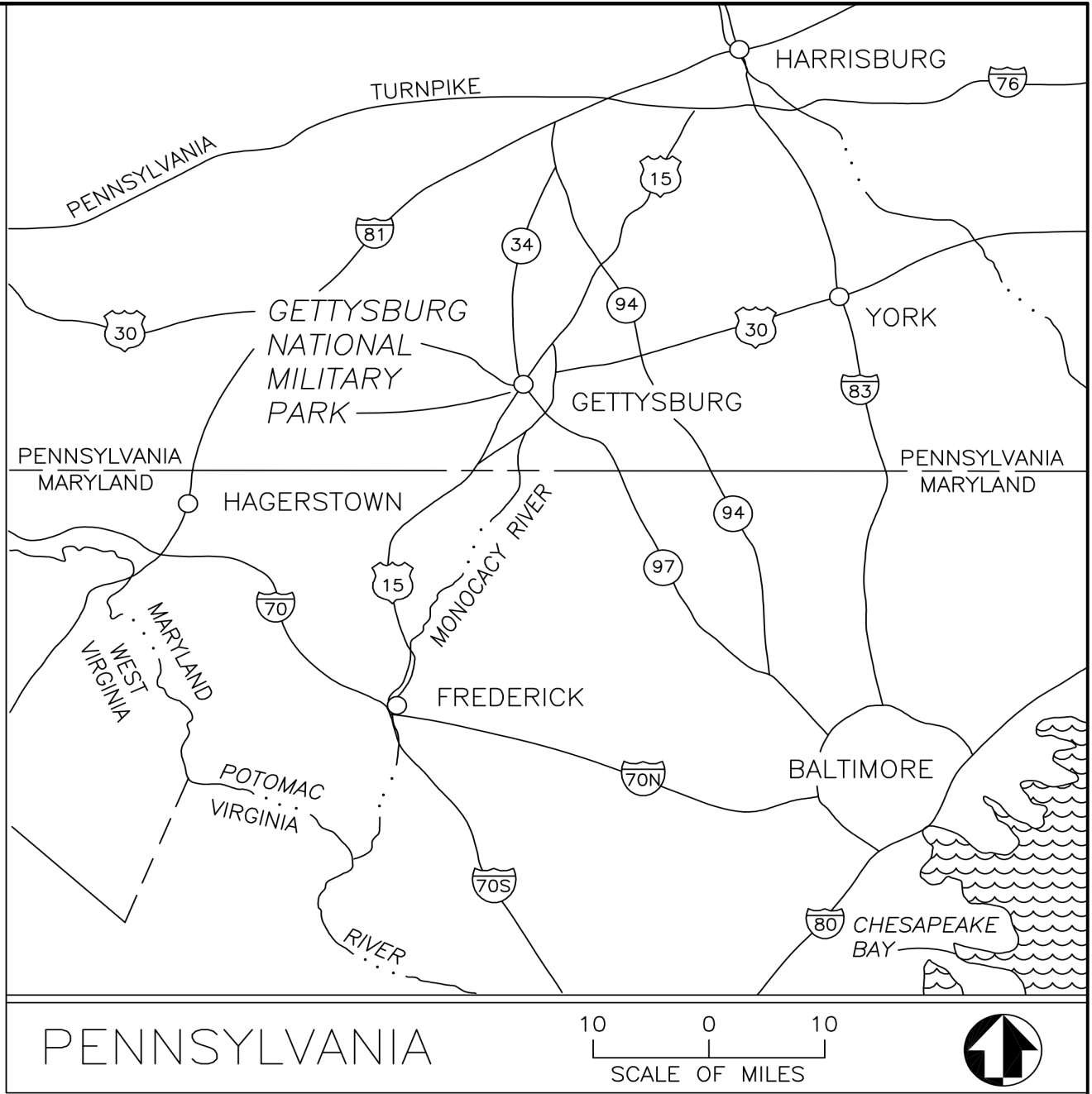


GETTYSBURG NATIONAL MILITARY PARK

REHABILITATE THE JOSIAH BENNER HOUSE, SPRINGHOUSE AND SUMMER KITCHEN

LEGEND

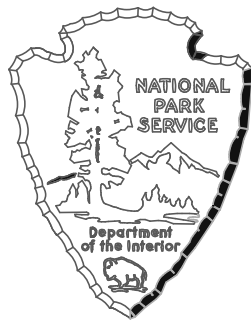
- — — PARK BOUNDARY
- - - STATE LINE
- ... RIVER
- ADJACENT NATIONAL PARK
- V.C. VISITOR CENTER
- H.Q. PARK HEADQUARTERS
- RANGER STATION
- P PARKING
- PICNIC AREA
- OBSERVATION TOWER
- RESTROOMS
- AMPHITHEATER



BASIC DATA: 305/41,029A 2/90; 305/40,003C; PARK
MINI FOLDER 1990; REVISED & REDRAWN 2/94. UPDATED
11/98.SGS.

A/E FIRM -- P15PC00037				Mark	Sheet	REVISION	Date	Initial
PRIME/ARCH: GWDO, INC. BALTIMORE, MD	CIVIL: C.S. DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD					
LANDSCAPE: C.S. DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD					

QUALITY DESIGN CERTIFICATION	
<input type="checkbox"/> Prepared in Accordance with Design Development (Title I)	Drawing No. _____
OR	
<input type="checkbox"/> Variance from Design Development (Title I)	Approved by Superintendent on _____ Date _____
OR	
<input type="checkbox"/> Construction Drawing Not Preceded by Design Development (Title I)	
Project Manager	Date _____



ISSUED FOR BID		TITLE OF DRAWING REHABILITATE THE JOSIAH BENNER HOUSE, SPRINGHOUSE AND SUMMER KITCHEN		DRAWING NO. 305
UNITED STATES DEPARTMENT OF THE INTERIOR		LOCATION WITHIN PARK GETTYSBURG, PA		178321
NPS Office Responsible		NAME OF PARK GETTYSBURG NATIONAL MILITARY PARK		PMIS/PKG NO. 257363
		REGION 1	COUNTY ADAMS	STATE PENNSYLVANIA
				SHEET 1 OF 95

INDEX OF DRAWINGS

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2	CS 2	Index of Drawings
3	CS 3	Abbreviations, Symbols and Materials
4	CS 4	Code Sheet and Egress Plan

CML

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6	C2	Site Grading / Utility Improvements Plan
7	C3	EAS Control Notes and Details
8	C4	Construction Details
9	C5	Construction Details
10	AS1	Architectural Site Plan

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13	M01.2	First Floor Demolition Mechanical
14	M01.3	Second Floor Demolition Mechanical
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21	M7.1	Mechanical Schedules

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24	P01.2	First Floor Demolition Plumbing
25	P01.3	Second Floor Demolition Plumbing
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27	P1.1	Cellar New Work Plumbing
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Sheet	Sub Sheet	Title of Sheet
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55	F1.1	Cellar New Work Fire Protection
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59	FA0.1	Fire Alarm Cover Sheet
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61	FA1.1	First Floor Fire Alarm New Work
62	FA1.2	Second Floor Fire Alarm New Work
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ISSUED FOR BID				DESIGNED:		SUB SHEET NO. CS.2	TITLE OF SHEET INDEX OF DRAWINGS	DRAWING NO. 305
A/E FIRM - P15PC00007				LMG				178321
PRIN/ARCH: DMG INC. BALTIMORE, MD CIVIL: CS DAVIDSON GETTYSBURG, PA MECHANICAL: HENRY ADAMS TOWSON, MD PLUMBING: HENRY ADAMS TOWSON, MD				CADD: LMG				PM/S/PKG NO. 257363
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA STRUCTURAL: SDH WASHINGTON, DC ELECTRICAL: HENRY ADAMS TOWSON, MD FIRE PROTECTION: HENRY ADAMS TOWSON, MD				TECH. REVIEW: SDM				SHEET* 63
DATE: 02/28/2022				GETTYSBURG NATIONAL MILITARY PARK				2 of

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GENERAL NOTES	
1. THE INFORMATION INCLUDED IN THESE DRAWINGS WITH REGARDS TO THE EXISTING BUILDING IS BASED ON PREVIOUS DOCUMENTATION PROVIDED TO THE ARCHITECT AS WELL AS WHAT IS READILY OBSERVABLE AT THE PROJECT SITE. DESTRUCTIVE INVESTIGATION TECHNIQUES HAVE NOT BEEN USED TO VERIFY INFORMATION THAT IS NOT READILY OBSERVABLE.	
2. ITEMS AND MATERIALS ARE NEW UNLESS NOTED AS EXISTING.	
3. THERE IS NO CONTRACTOR STAGING OR STORAGE PERMITTED WITHIN THE BUILDING.	
4. CONTRACTOR IS TO MEET THE REQUIREMENTS OF ALL CODES, RULES, AND REGULATIONS GOVERNING THIS PROJECT AS SET BY FEDERAL, STATE, AND LOCAL CODES, BUILDING DEPARTMENT AGENCIES, AND THE OWNER.	
5. CONTRACTOR IS TO MEET THE REQUIREMENTS OF THE APPLICABLE ACCESSIBILITY GUIDELINES FOR ALL ASPECTS OF THIS PROJECT.	
6. PROVIDE BLOCKING AS INDICATED ON THE DRAWINGS OR AT ALL WALL OR CEILING MOUNTED ACCESSORIES AS NECESSARY TO SUPPORT THE WORK. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND MANUFACTURERS RECOMMENDATIONS FOR EACH ITEM.	

NOTE:

SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR MATERIALS, ABBREVIATIONS AND SYMBOLS RELATING TO M.E.P. WORK

SEE CIVIL AND STRUCTURAL DRAWINGS FOR MATERIALS, ABBREVIATIONS AND SYMBOLS RELATING TO STRUCTURAL, CIVIL, AND LANDSCAPE WORK

	WALL TYPE		NEW WORK
	WINDOW TYPE		EXISTING WORK
	DOOR NUMBER		
NAME 	ROOM IDENTIFICATION		DETAIL/ PARTIAL SECTION REFERENCE
	DEMOLITION NOTE		
	CONSTRUCTION NOTE		ELEVATION REFERENCE
	REFERENCE POINT		SECTION REFERENCE
	ACCESSORY		
KEY TO SYMBOLS			
SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SYMBOLS RELATING TO M.E.P. WORK		(ARCHITECTURAL DRAWINGS ONLY)	

	CMU		PLASTER/ GWB SURFACES
	CONCRETE		STEEL (LARGE SCALE)
	GRAVEL / DRAIN ROCK		AGGREGATE
	PLYWOOD		BACKFILL
	BLOCKING (INTERMITTENT/ AS REQ)		STEEL (SMALL SCALE)
	END GRAIN LUMBER (CONTINUOUS)		FLASHING
	BATT/ ACOUSTICAL INSULATION		GLASS (ELEVATION)
	RIGID INSULATION		ROCK SURFACE
	COMPACTED EARTH		FINISH WOOD
	BRICK		
	BRICK ELEVATION		
	SAND, GROUT OR MORTAR		
KEY TO MATERIALS			
SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SYMBOLS RELATING TO M.E.P. WORK		(ARCHITECTURAL DRAWINGS ONLY)	

A/E	ARCHITECTURE/ENGINEERING
ABA	ARCHITECTURAL BARRIERS ACT
ABAAS	ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDITION
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
APPROX	APPROXIMATELY
AW	AWNING
BLDG	BUILDING
BLTS	BOLTS
BO	BOTTOM OF
CL	CENTERLINE
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CONTRACTING OFFICER
DH	DOUBLE-HUNG
DIA/Ø	DIAMETER
DWGS	DRAWINGS
EL/ELEV	ELEVATION
EQ	EQUAL
ETR	EXISTING TO REMAIN
EX/EXT	EXISTING
FCU	FAN COIL UNIT
F	FIXED
FF	FINISHED FLOOR
FP.X	FIRE PLACE
GL	GLASS, GLAZING
GWB	GYPSUM WALL BOARD
HABS	HISTORIC AMERICAN BUILDING SURVEY
HM	HOLLOW METAL
HSR	HISTORIC STRUCTURE REPORT
IBC	INTERNATIONAL BUILDING CODE
IEBC	INTERNATIONAL EXISTING BUILDING CODE
INT	INTERIOR
LARPM	LIQUID-APPLIED REINFORCED POLYMER MEMBRANE
LG	LARGE
MAL	MATERIAL
MIN	MINIMUM
MAX	MAXIMUM
MEP	MECHANICAL/ELECTRICAL/PLUMBING
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NPS	NATIONAL PARK SERVICE
OC	ON CENTER
OH	OPPOSITE HAND
OZ	OUNCE
PART	PARTIAL
PT	PRESSURE-TREATED
REF	REFRIGERATOR
REQ'D	REQUIRED
RM	ROOM
SF	SQUARE FEET
SH	SINGLE-HUNG
SI	SQUARE INCH
SIM	SIMILAR
SM	SMALL
SS	STAINLESS STEEL
TECH	TECHNICAL
TYP	TYPICAL
USPP	UNITED STATES PARK POLICE
VENT	VENTILATION
VIF	VERIFY IN FIELD
W/	WITH
WD	WOOD
W/D	WASHER AND DRYER
KEY TO ABBREVIATIONS	
ARCHITECTURAL DRAWINGS ONLY	

ISSUED FOR BID

A/E FIRM -- P15PC00037				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET ABBREVIATIONS, SYMBOLS, AND MATERIALS GETTYSBURG NATIONAL MILITARY PARK	DRAWING NO. 305
PRIME/ARCH: GWFO, INC. BALTIMORE, MD				LMG			178321
CIVIL: CS DAVIDSON GETTYSBURG, PA				CADD: LMG	PMIS/PKG NO. 257363		
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA				TECH. REVIEW: SDM	SHEET		
STRUCTURAL: SGH WASHINGTON, DC				DATE: 02/28/2022	3 OF 95		
ELECTRICAL: HENRY ADAMS TOWSON, MD							
PLUMBING: HENRY ADAMS TOWSON, MD							
FIRE PROTECTION: HENRY ADAMS TOWSON, MD							

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CODE ANALYSIS

GENERAL INFORMATION

PROJECT NAME: REHABILITATE THE HISTORIC JOSIAH BENNER HOUSR, SPRINGHOUSE AND SUMMER KITCHEN
PROJECT LOCATION: GETTYSBURG, PENNSYLVANIA

APPLICABLE CODES

2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL RESIDENTIAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018 NATIONAL STANDARD PLUMBING CODE
2012 INTERNATIONAL ENERGY CODE
2018 NFPA 1
2018 NFPA 101, LIFE SAFETY CODE
2018 NFPA 10 PORTABLE FIRE EXTINGUISHERS
2019 NFPA 13 INSTALLATION OF SPRINKLER SYSTEMS
2020 NFPA 70 NATIONAL ELECTRICAL CODE
2019 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

NOTE: IF A CONFLICT BETWEEN
APPLICABLE CODES OCCURS THE MORE
RESTRICTIVE REQUIREMENT SHALL
GOVERN, UNLESS NOTED OTHERWISE.

GENERAL BUILDING HEIGHTS AND AREAS

ALLOWABLE HEIGHT, NUMBER OF STORIES, AND BUILDING AREA

	IBC	NFPA	ACTUAL
	HEIGHT - TABLE 504.3 STORIES - TABLE 504.4 AREA FACTOR - TABLE 506.2	STORIES - TABLE 6.1.8.1.2	FULLY SPRINKLERED HEIGHT: 32'-0" STORIES: 2, PLUS ATTIC AND BASEMENT
CONSTRUCTION TYPE	V-B	V (000)	
R-2 OCCUPANCY	HEIGHT: 30' STORIES: 2 AREA FACTOR: 1000 SF/STORY	STORIES: 2	BASEMENT: 907 SF FIRST FLOOR: 1,129 SF SECOND FLOOR: 886 SF TOTAL: 2,922 SF

MEANS OF EGRESS

ACTUAL OCCUPANT LOAD, EGRESS CAPACITY, AND NUMBER OF EXITS

THE FOLLOWING TABLE INDICATES THE ACTUAL OCCUPANT LOAD BY STORY, PROVIDED EGRESS CAPACITY BY STORY BASED ON THE ABOVE TABLE, REQUIRED NUMBER OF EXITS BY STORY BASED ON IBC TABLE 1006.3.1 AND NFPA 7.4.1.2 AND 6.1.8.1.2, AND PROVIDED NUMBER OF EXITS BY STORY.

OCCUPANT LOAD, EGRESS CAPACITY, AND NUMBER OF EXITS

STORY	ACTUAL OCCUPANT LOAD	EGRESS CAPACITY PROVIDED (INCLUDES DOORS AND STAIRS)	NUMBER OF EXITS	
			REQUIRED	PROVIDED
0	3 OCCUPANTS	65 OCCUPANTS	1	1
1*	4 OCCUPANTS	439 OCCUPANTS	2	4
2	4 OCCUPANTS	56 OCCUPANTS	1	1

* INDICATES LEVEL OF EXIT DISCHARGE.

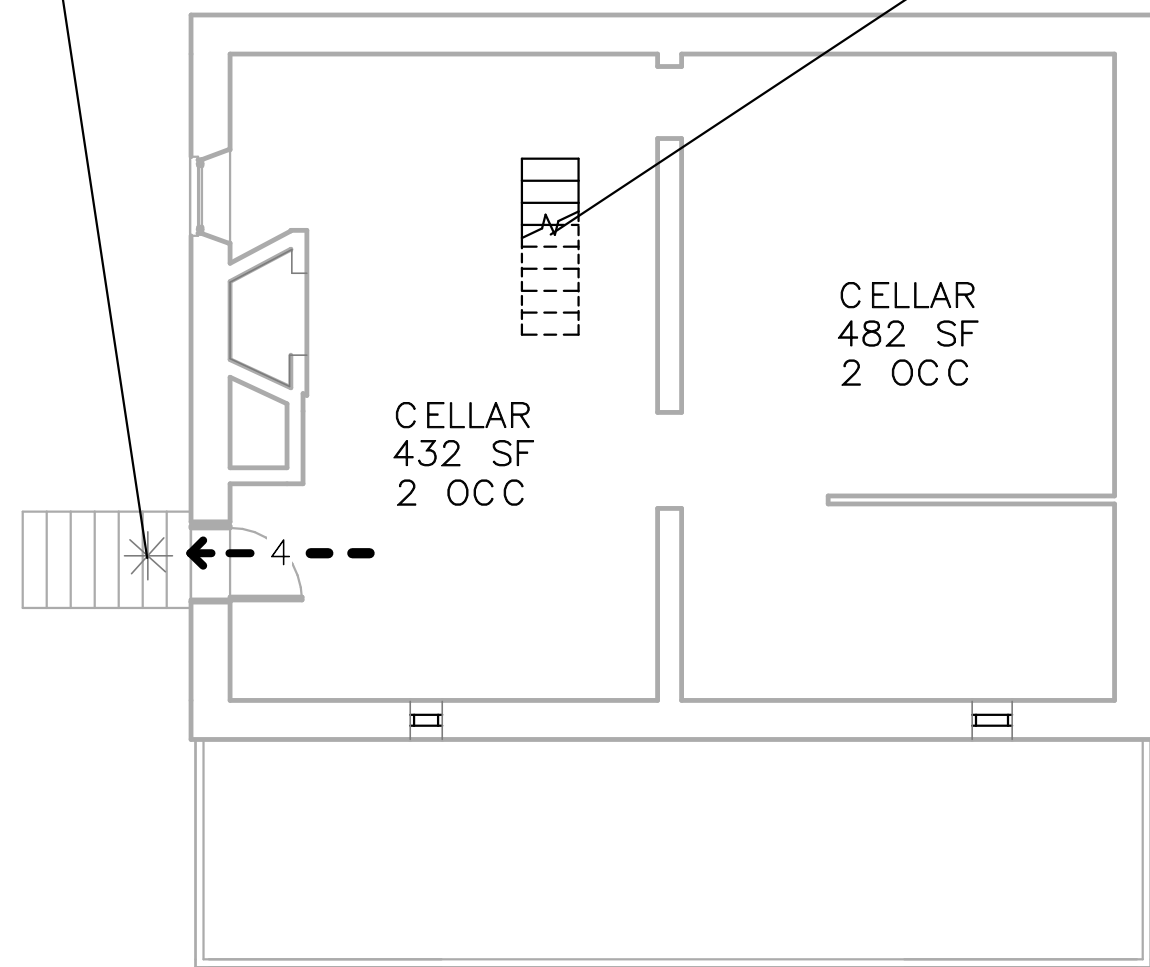
USE AND OCCUPANCY CLASSIFICATION

BUILDING USE GROUP

	IBC	NFPA 101
RESIDENTIAL GROUP R-2	310.4	6.1.8.1.2

EXIT1
OF EXITING OCCUPANTS: 4
REQUIRED EGRESS WIDTH: 0.8"
PROVIDED EGRESS WIDTH: 34"

STAIR 1
OF EXITING OCCUPANTS: 4
REQUIRED EGRESS WIDTH: 1.2"
PROVIDED EGRESS WIDTH: 28"

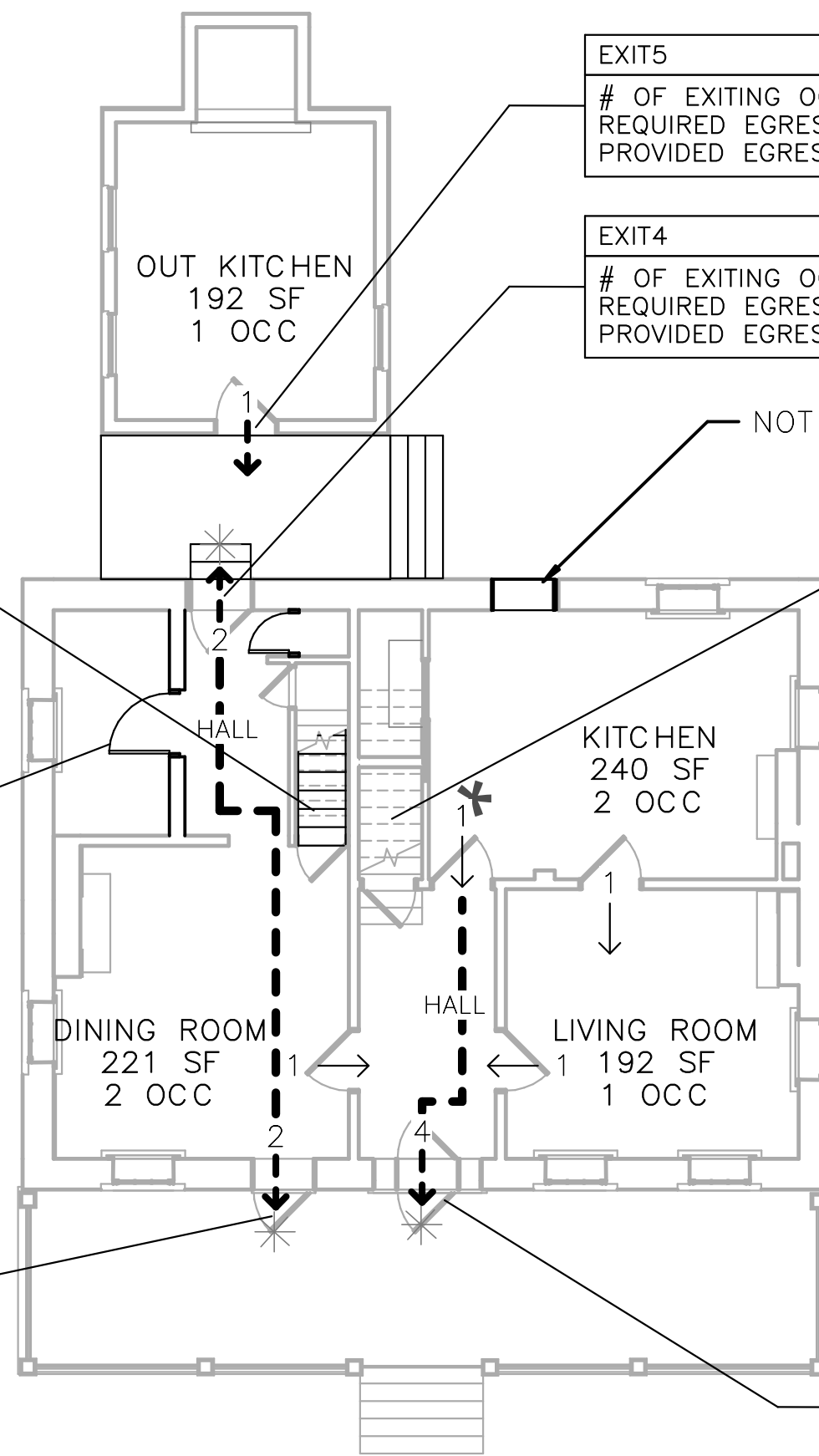


1 CELLAR - EGRESS PLAN
CS.4 SCALE (A)

STAIR 1
OF EXITING OCCUPANTS: 4
REQUIRED EGRESS WIDTH: 1.2"
PROVIDED EGRESS WIDTH: 28"

LAUNDRY & TOILET
ROOM

EXIT2
OF EXITING OCCUPANTS: 2
REQUIRED EGRESS WIDTH: 0.4"
PROVIDED EGRESS WIDTH: 34"



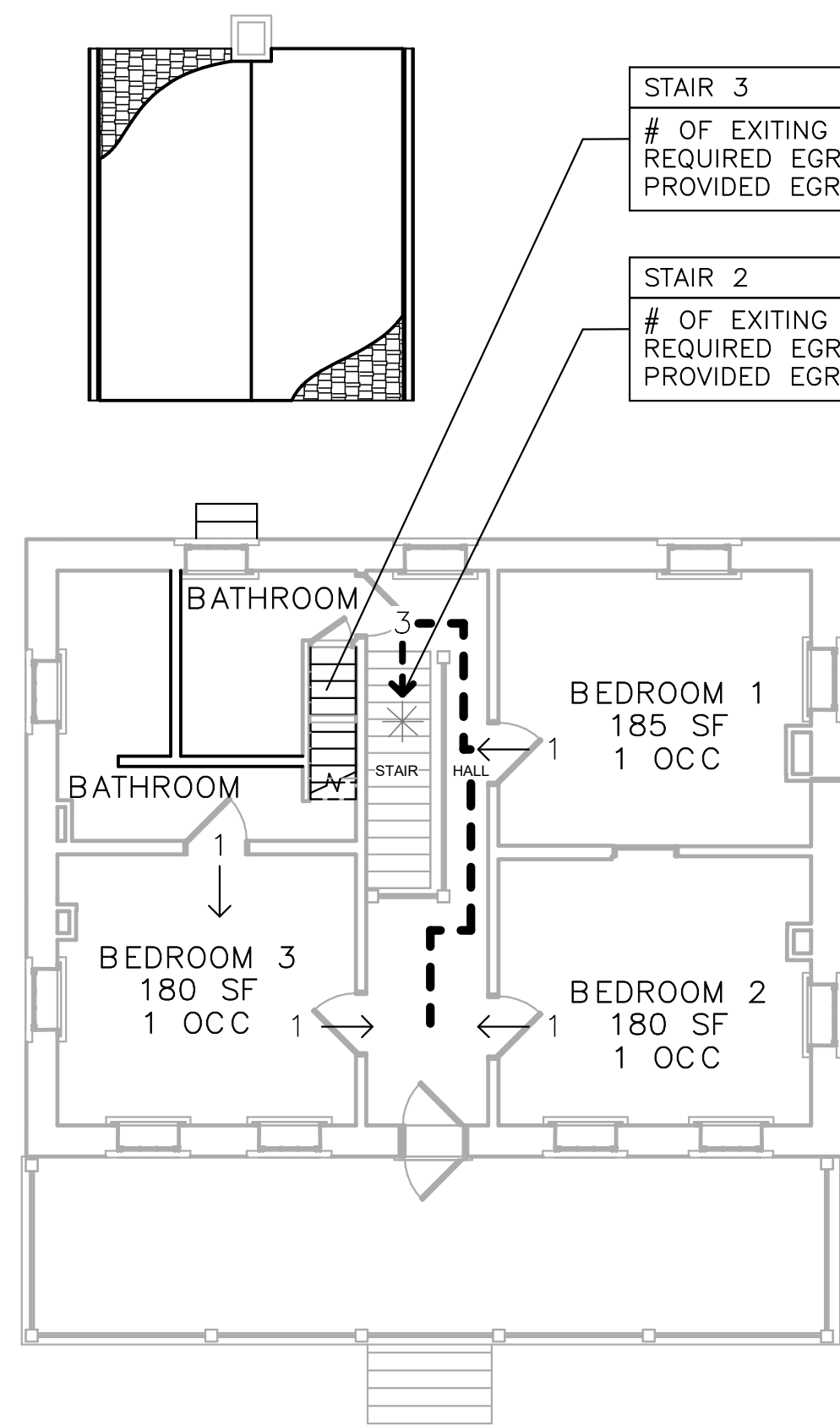
2 FIRST FLOOR - EGRESS PLAN
CS.4 SCALE (A)

EXIT5
OF EXITING OCCUPANTS: 1
REQUIRED EGRESS WIDTH: 0.2"
PROVIDED EGRESS WIDTH: 34"

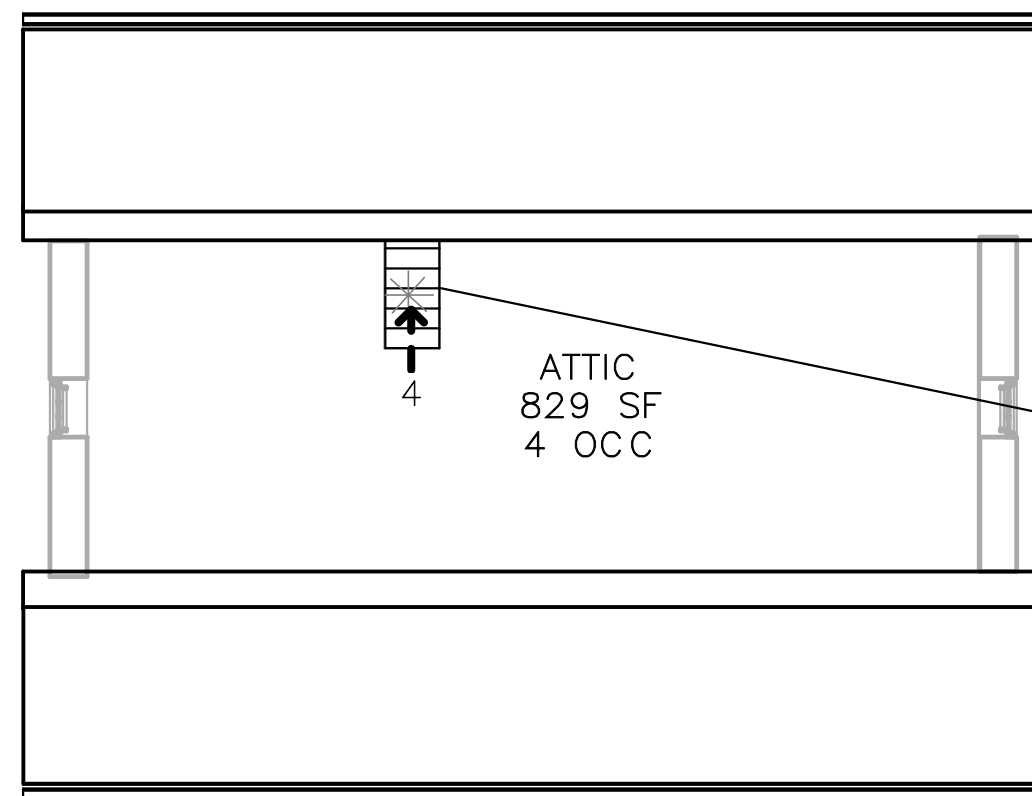
EXIT4
OF EXITING OCCUPANTS: 2
REQUIRED EGRESS WIDTH: 0.4"
PROVIDED EGRESS WIDTH: 34"

STAIR 2
OF EXITING OCCUPANTS: 3
REQUIRED EGRESS WIDTH: 0.9"
PROVIDED EGRESS WIDTH: 30"

EXIT3
OF EXITING OCCUPANTS: 4
REQUIRED EGRESS WIDTH: 0.8"
PROVIDED EGRESS WIDTH: 34"



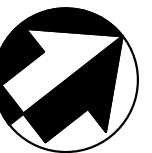
3 SECOND FLOOR - EGRESS PLAN
CS.4 SCALE (A)



STAIR 3
OF EXITING OCCUPANTS: 4
REQUIRED EGRESS WIDTH: 1.2"
PROVIDED EGRESS WIDTH: 34"

4 ATTIC - EGRESS PLAN
CS.4 SCALE (A)

SCALE (A) 8 0 8 16
SCALE OF FEET



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A/E FIRM - P15PC00037

PRIME/ARCH: GWGO, INC., BALTIMORE, MD
CIVIL: CS DAVIDSON GETTYSBURG, PA
MECHANICAL: HENRY ADAMS TOWSON, MD
PLUMBING: HENRY ADAMS TOWSON, MD
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA
STRUCTURAL: SGH WASHINGTON, DC
ELECTRICAL: HENRY ADAMS TOWSON, MD
FIRE PROTECTION: HENRY ADAMS TOWSON, MD

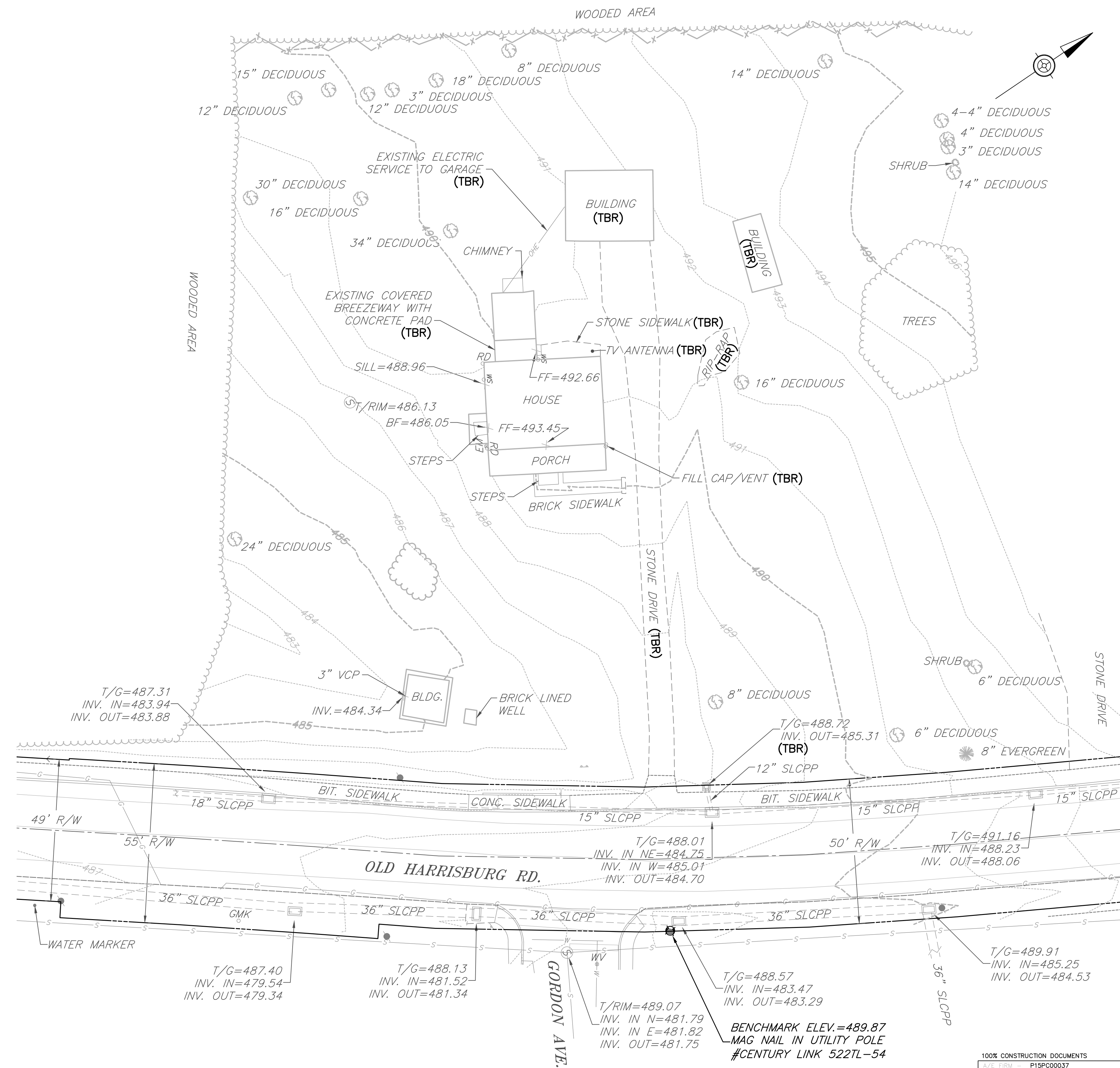
DESIGNED: LMG
CADD: LMG
TECH. REVIEW: SDM
DATE: 02/28/2022






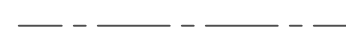





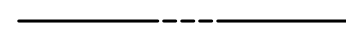













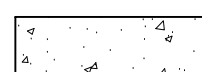



SUB SHEET NO. CS.4

TITLE OF SHEET
CODE SHEET & EGRESS PLAN

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO. 305
178321
PMIS/PKG NO. 257363
SHEET 4 OF 95



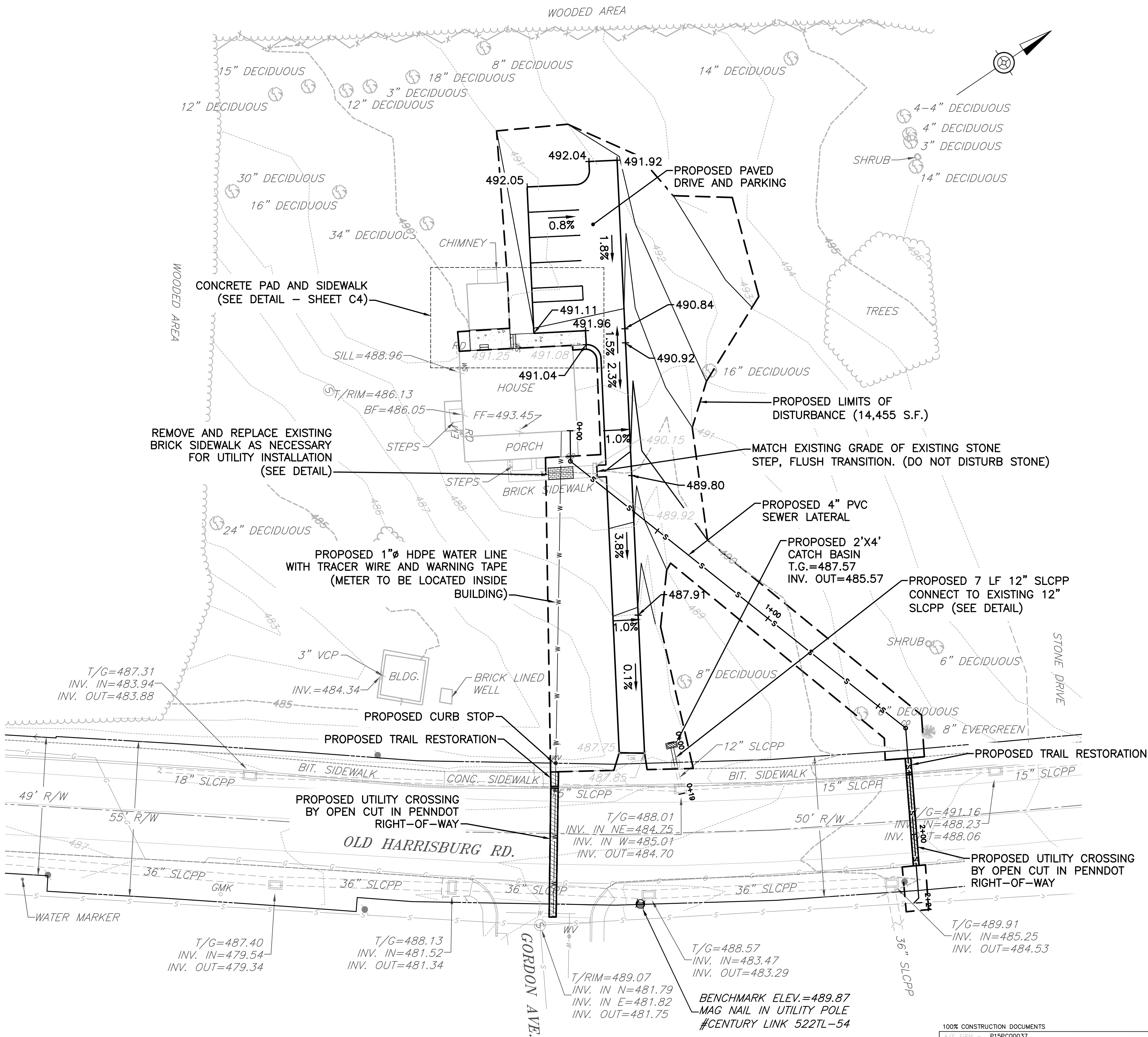
LEGEND			
	UTILITY POLE		CONTOUR
	GAS MARKER		CONTOUR (INDEX)
	ELECTRIC METER		CENTERLINE
	ROOF DRAIN		EDGE OF PAVEMENT
	WATER VALVE		PAINTED TRAFFIC LINE
	FIRE HYDRANT		RIGHT OF WAY LINE
	WATER LINE		PROPOSED GAS LINE
	WATER MANHOLE		PROPOSED SEWER LINE
	SANITARY SEWER MANOLE		PROPOSED WATER LINE
	SANITARY SEWER		PROPOSED CLEANOUT
	STORM SEWER PIPE		SIGNS
	STORM SEWER INLET		PROPOSED PAVEMENT RESTORATION
	DECIDUOUS TREE		PROPOSED CONCRETE SIDEWALK
	EVERGREEN TREE		LIMITS OF DISTURBANCE
	TO BE REMOVED		

NOTES:

1. EXISTING BUILDING DEMO TO INCLUDE REMOVAL OF ALL COMPONENTS WITH IN BUILDING FOOTPRINT TO A DEPTH OF THREE (3) FEET BELOW GRADE.
2. ARCHAEOLOGICAL CLEARANCE TO BE OBTAINED FROM THE N.P.S. PRIOR TO ANY EARTH DISTURBANCE.

LEGEND

	UTILITY POLE		CONTOUR
	GAS MARKER		CONTOUR (INDEX)
	ELECTRIC METER		CENTERLINE
	ROOF DRAIN		EDGE OF PAVEMENT
	WATER VALVE		PAINTED TRAFFIC LINE
	FIRE HYDRANT		RIGHT OF WAY LINE
	WATER LINE		PROPOSED GAS LINE
	WATER MANHOLE		PROPOSED SEWER LINE
	SANITARY SEWER MANOLE		PROPOSED WATER LINE
	SANITARY SEWER		PROPOSED CLEANOUT
	STORM SEWER PIPE		SIGNS
	STORM SEWER INLET		PROPOSED PAVEMENT RESTORATION
	DECIDUOUS TREE		PROPOSED CONCRETE SIDEWALK
	EVERGREEN TREE		LIMITS OF DISTURBANCE
	TO BE REMOVED		



PROPOSED CONDITIONS PLAN
SCALE: 1"=20'

100% CONSTRUCTION DOCUMENTS A/E FIRM - P15PC00037				DESIGNED: CWS GADD CWS TECH. REVIEW: NCS DATE: 10/29/2021	SUB SHEET NO. C2	TITLE OF SHEET SITE GRADING/UTILITY IMPROVEMENTS PLAN GETTYSBURG NATIONAL MILITARY PARK	DRAWING NO. 305 178321 PMIS/PKG. NO. 257363 SHEET OF 95
PRIME/ARCH: GWWO, INC. BALTIMORE, MD		CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD			
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA		STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD			

CONSTRUCTION SEQUENCE

- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. ANY DEVIATION FROM THE FOLLOWING SEQUENCE MUST BE APPROVED IN WRITING FROM THE CONTRACTING OFFICER.
- THE CONTRACTOR SHALL MEET WITH THE PARK ARCHAEOLOGIST TO REVIEW THE LIMIT OF DISTURBANCE PRIOR TO MARKOUT.
 - AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 811 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL MARK THE PROPOSED LIMITS OF DISTURBANCE.
 - THE CONTRACTOR SHALL MEET WITH THE PARK ARCHAEOLOGIST TO REVIEW FIELD MARKOUT AND REVISE LIMITS OF DISTURBANCE IF NECESSARY. THE PARK ARCHAEOLOGIST WILL DETERMINE THE NEED FOR AN ARCHAEOLOGICAL SURVEY/REPORT AND ANY NECESSARY MITIGATION MEASURES NEEDED.
 - THE CONTRACTOR SHALL INSTALL 8” COMPOST FILTER SOCK AS SHOWN ON THE PLAN.
 - THE CONTRACTOR SHALL BEGIN CONSTRUCTION ACTIVITIES.
 - THE CONTRACTOR SHALL REMOVE EXISTING GRAVEL ALLEY, CONCRETE, AND STONE AREAS TO BE RETURNED TO GRASS, GRADE AND INSTALL TOPSOIL AND SEED OR RE-VEGETATE AS SHOWN ON THE PLAN. ALL SPOIL MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT A SITE WITH AN APPROVED E&S PLAN. AREAS TO BE REVEGETATED SHOULD BE DECOMPACTED PRIOR TO PLACEMENT OF TOPSOIL TO PROMOTE INFILTRATION.
 - THE CONTRACTOR SHALL RELOCATED THE EXISTING FENCE AS SHOWN ON THE PLAN.
 - THE CONTRACTOR SHALL INSTALL PAVED ACCESS DRIVE AS SHOWN ON THE PLAN.
 - THE CONTRACTOR SHALL CLEAR AND GRUB ALL EXISTING AREAS TO BE RE-VEGETATED, AND INSTALL NEW PLANTINGS AS SHOWN ON PLAN.
 - UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR SHALL CONTACT THE CONTRACTING OFFICER FOR AN INSPECTION PRIOR TO REMOVAL OF THE E&S BMPS.
 - UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY BMPS, AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR SHALL CONTACT THE CONTRACTING OFFICER TO SCHEDULE A FINAL INSPECTION. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. THE DISTRICT RESOURCE MANAGEMENT SPECIALIST SHALL MAKE THIS DETERMINATION.

SEED MIX

SUNNY AND PARTIAL SHADE MIX – USE THE SEED MIX PROVIDED IN THE PROJECT SPECIFICATIONS OR AN EQUAL, AS APPROVED BY THE PARK BIOLOGIST IN AREAS THAT ARE PARTIALLY SHADED.

SHADE MIX – USE THE SEED MIX PROVIDED IN THE PROJECT SPECIFICATIONS OR AN EQUAL, AS APPROVED BY THE PARK BIOLOGIST IN AREAS THAT ARE SHADED.

TOPSOIL

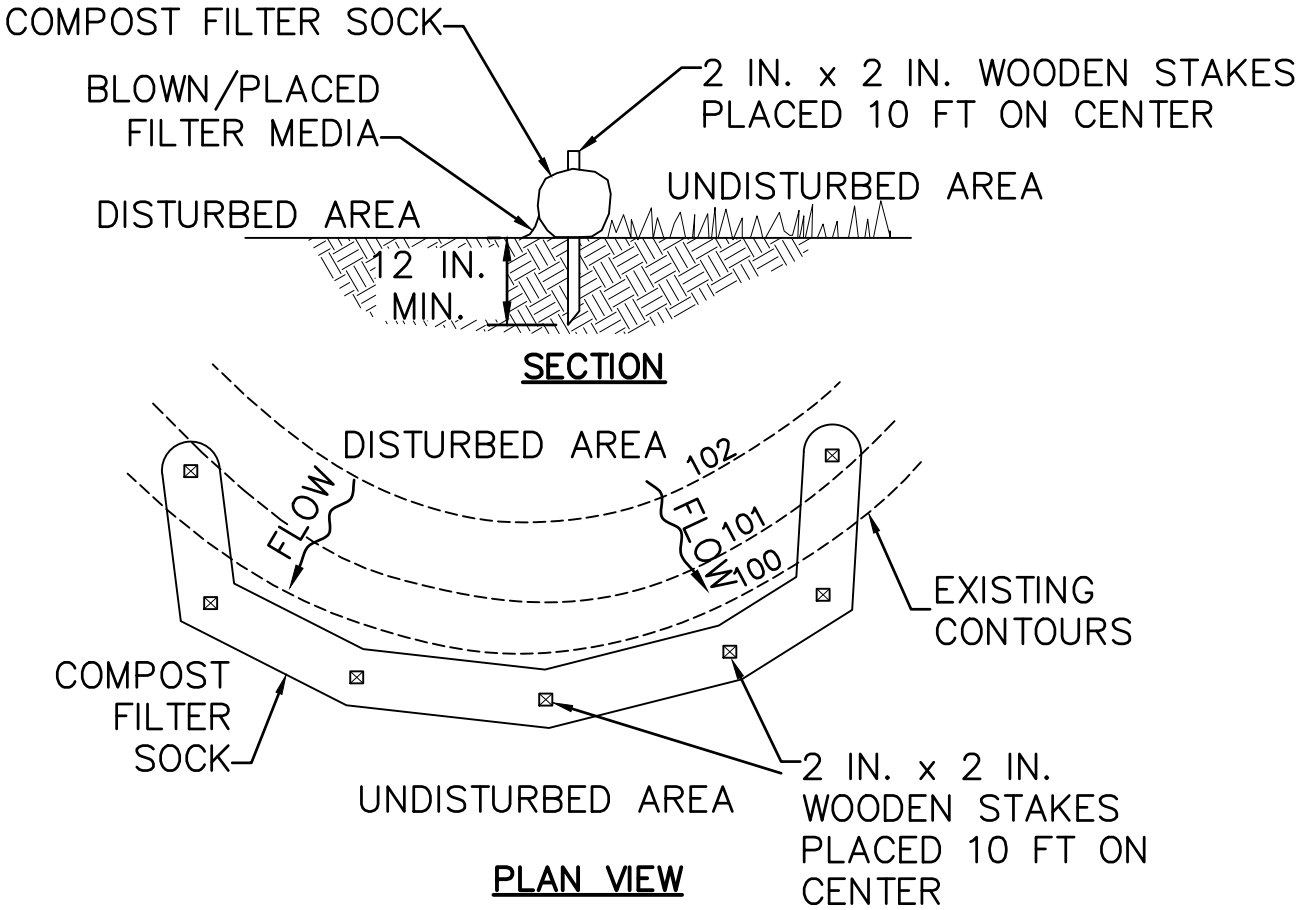
ANY FILL MATERIALS REQUIRED FOR THE PROJECT MUST BE OBTAINED FROM A PARK-APPROVED SOURCE. INTACT NATIVE TOPSOIL FROM THE PROJECT AREA SHALL BE RETAINED WHENEVER FEASIBLE. FILL AND TOPSOIL BROUGHT IN ON SITE MUST BE SOURCED FROM A WEED-FREE SUPPLIER.

STOCKPILING

NO TOPSOIL STOCKPILING SHALL BE ALLOWED ONSITE. ALL OFFSITE STOCKPILED SOILS SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. IF SOILS SHALL BE STOCKPILED FOR MORE THAN SEVEN (7) DAYS, THE STOCKPILE MUST BE SEEDED OR COVERED TO PREVENT EROSION OF MATERIAL.

E & S CONTROL DEVICES

ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE ADEQUATELY MAINTAINED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THOSE THAT HAVE SUSTAINED DAMAGE OR HAVE REACHED THEIR CAPABILITY SHALL BE REPLACED OR MAINTENANCE PERFORMED.



NOTES:
SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURERS SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.

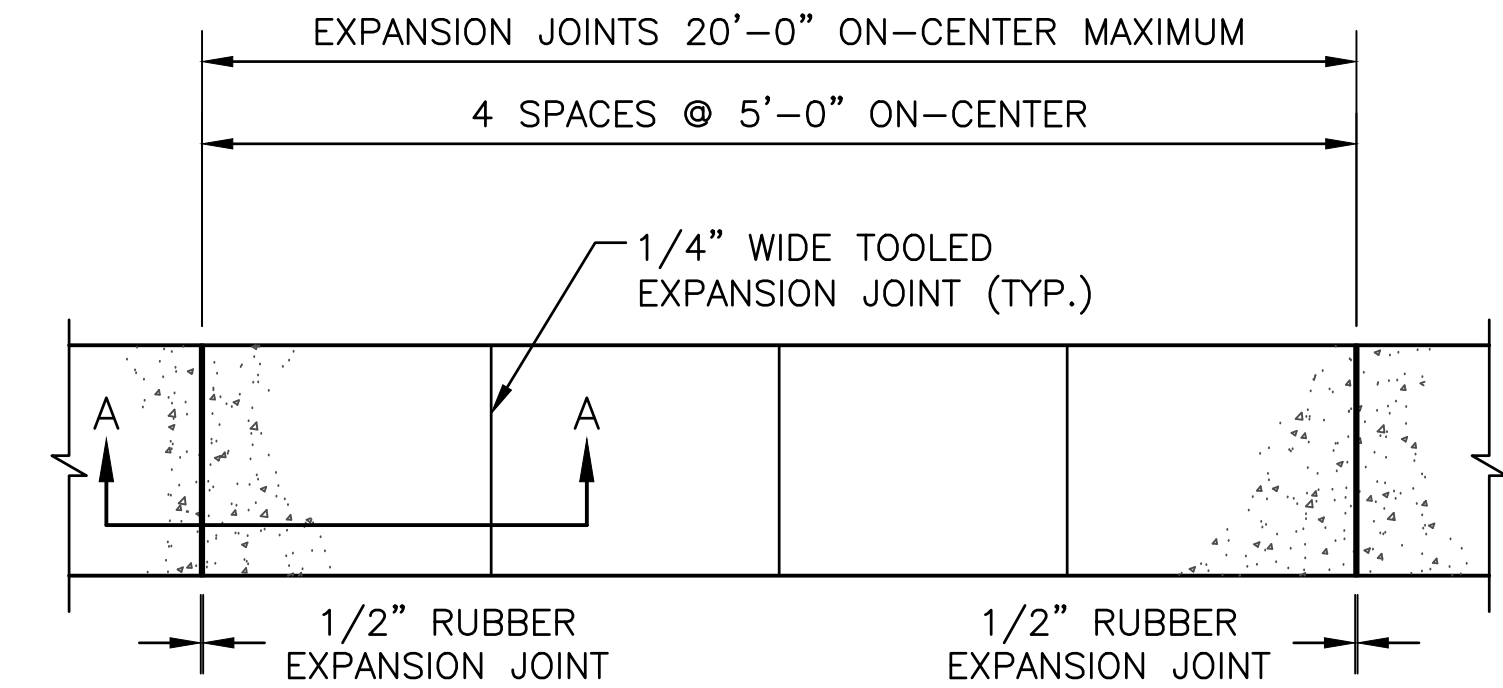
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK
N.T.S.

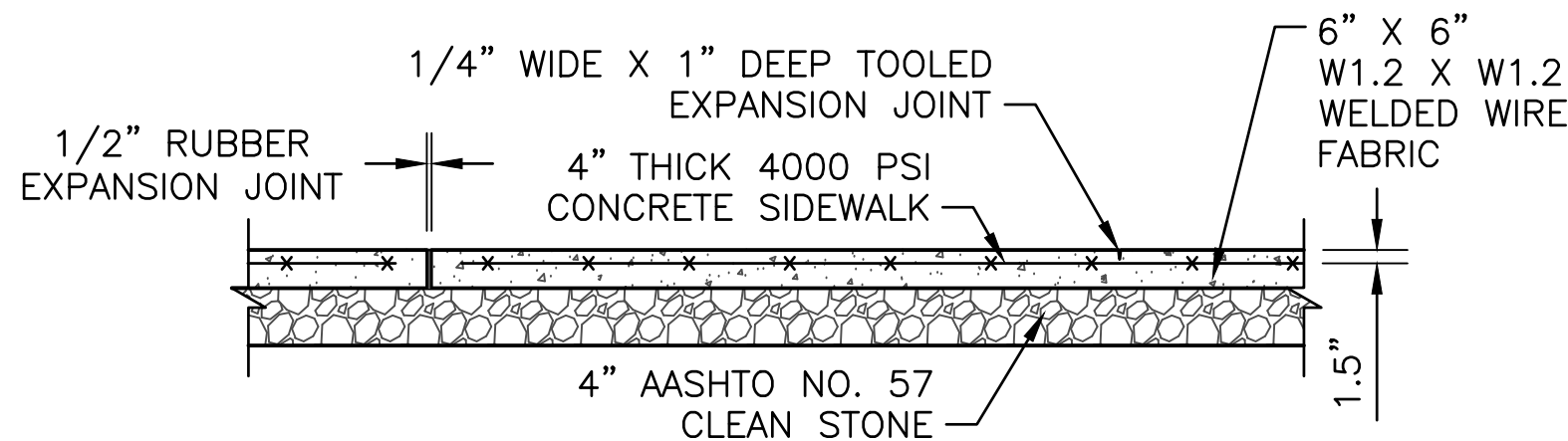
TABLE 4.1 Compost Sock Fabric Minimum Specifications					
Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12"	12"	12"	12"	12"
	18"	18"	18"	18"	18"
	24"	24"	24"	24"	24"
	32"	32"	32"	32"	32"
Mesh Opening	3/8"	3/8"	3/8"	3/8"	1/8"
Tensile Strength		26 psi	26 psi	44 psi	202 psi
Ultraviolet Stability % Original Strength (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
Minimum Functional Longevity	6 months	9 months	6 months	1 year	2 years
Two-ply systems					
Inner Containment Netting			HDPE biaxial net		
			Continuously wound		
			Fusion-welded junctures		
			3/4" X 3/4" Max. aperture size		
			Composite Polypropylene Fabric		
Outer Filtration Mesh			(Woven layer and non-woven fleece mechanically fused via needle punch)		
			3/16" Max. aperture size		
Sock fabrics composed of burlap may be used on projects lasting 6 months or less.					

TABLE 4.2 Compost Standards	
Organic Matter Content	25% - 100% (dry weight basis)
Organic Portion	Fibrous and elongated
pH	5.5 - 8.5
Moisture Content	30% - 60%
Particle Size	30% - 50% pass through 3/8" sieve
Soluble Salt Concentration	5.0 dS/m (mmhos/cm) Maximum

100% CONSTRUCTION DOCUMENTS BYE FIRM - P15PC00037				DESIGNED: CWS CWS TECH. REVIEW: NCS DATE: 10/29/2021	SUB SHEET NO. C3	TITLE OF SHEET E&S CONTROL NOTES AND DETAILS GETTYSBURG NATIONAL MILITARY PARK	DRAWING NO. 305 178321 PMIS/PKG. NO. 257363 SHEET OF 95
PRIME/ARCH: GWDO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD				
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD				



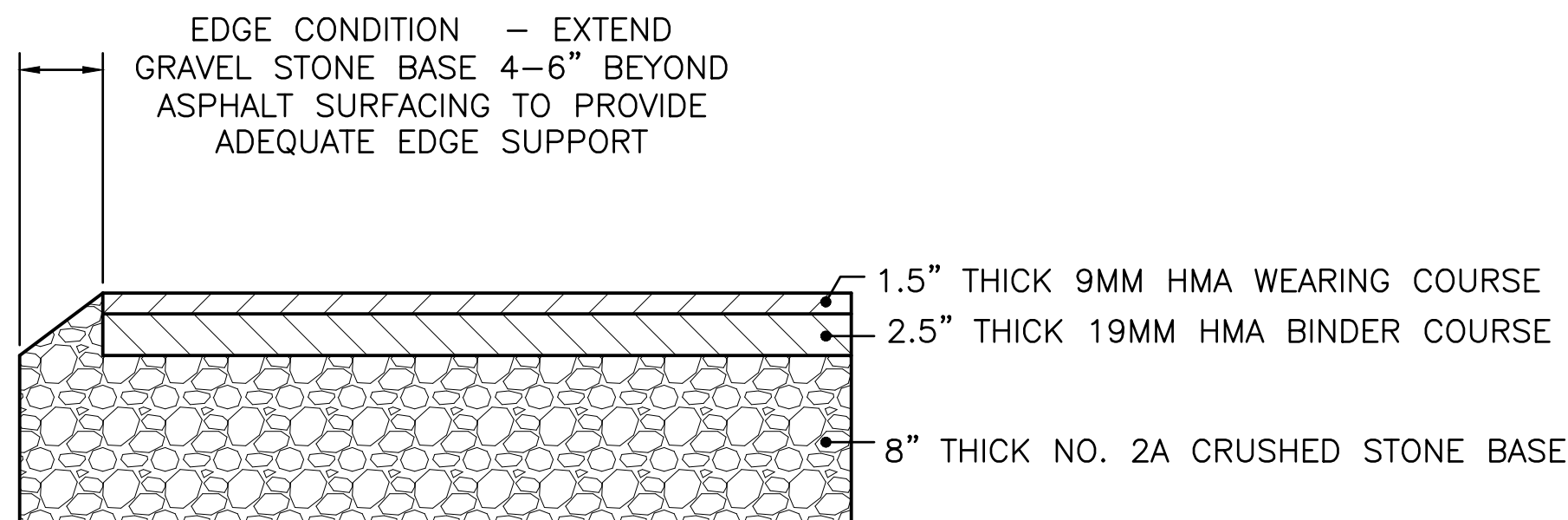
PLAN VIEW



SECTION A-A

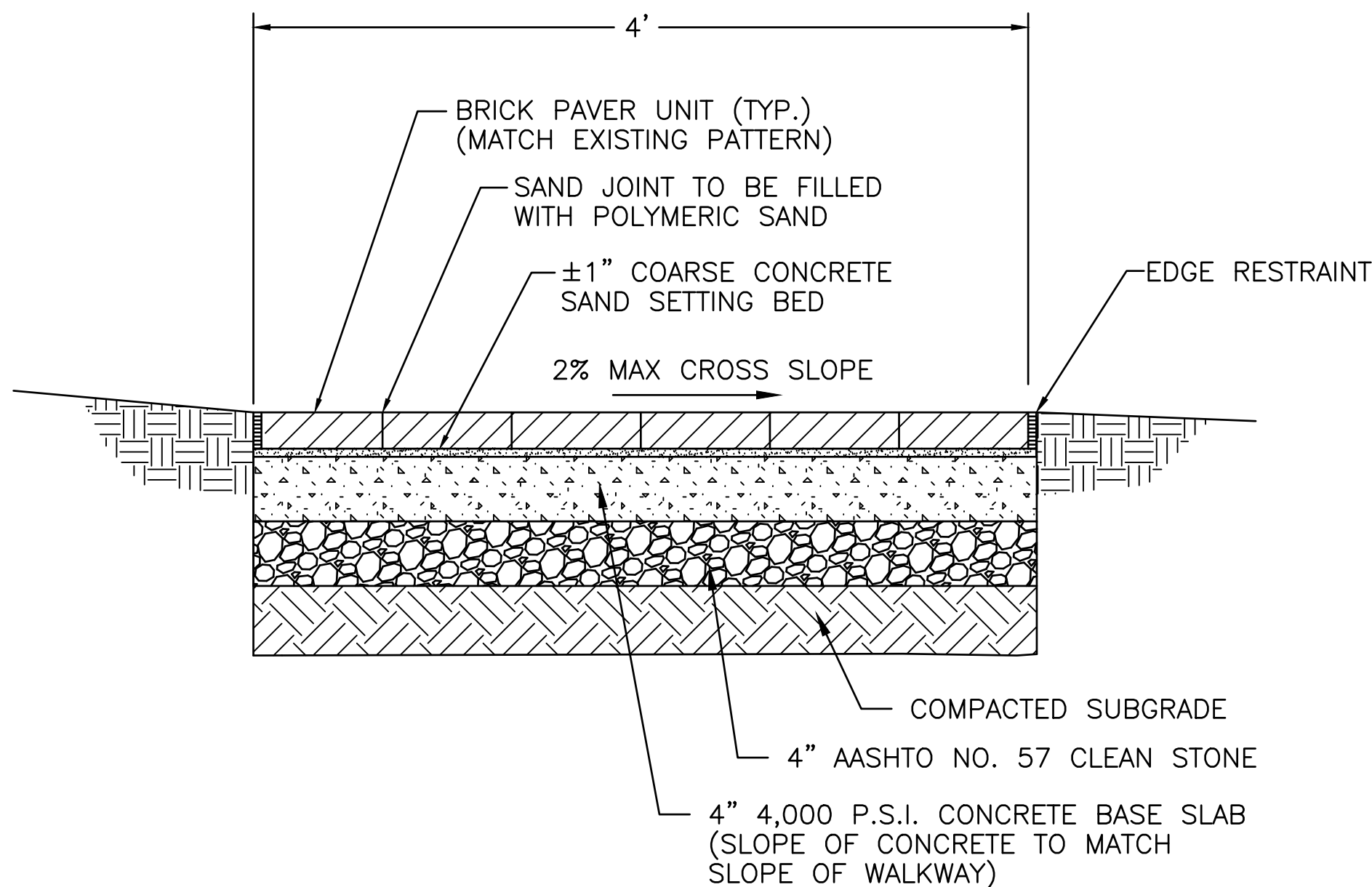
CONCRETE SIDEWALK DETAIL

N.T.S.



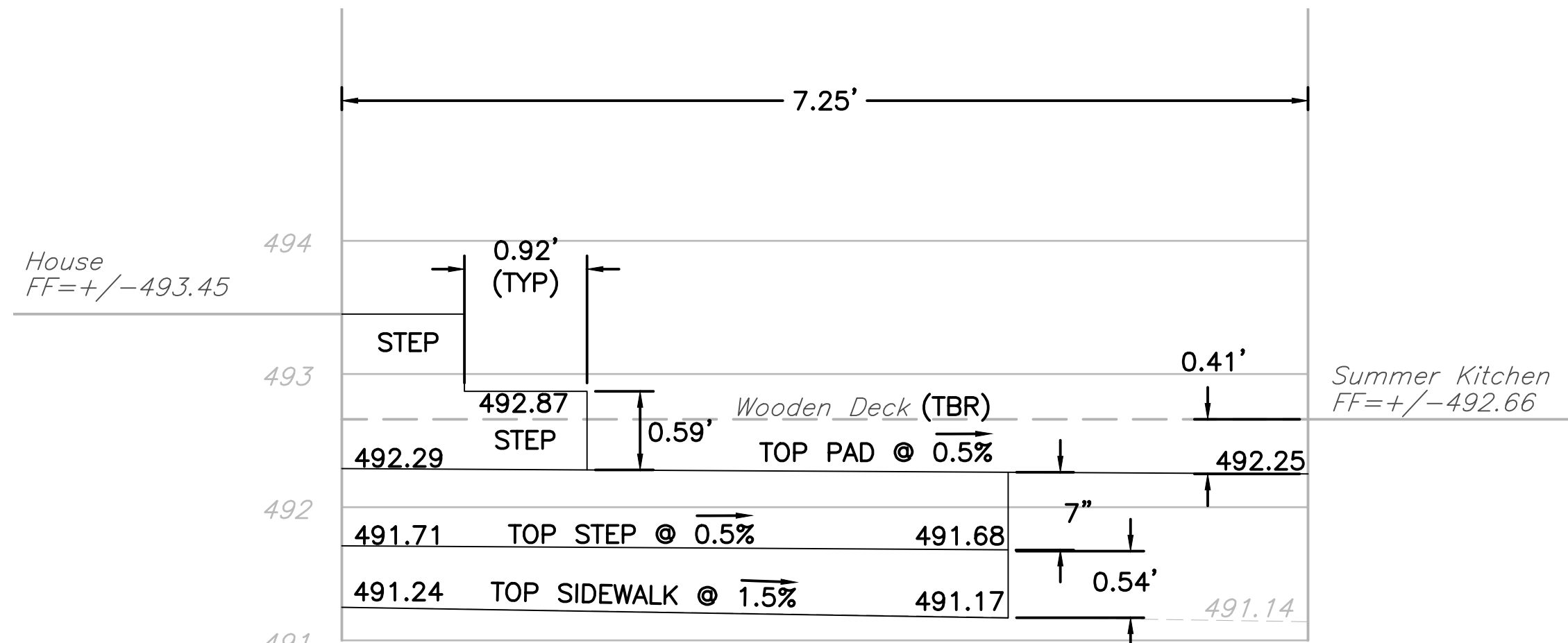
TYPICAL DRIVEWAY PAVING SECTION

N.T.S.

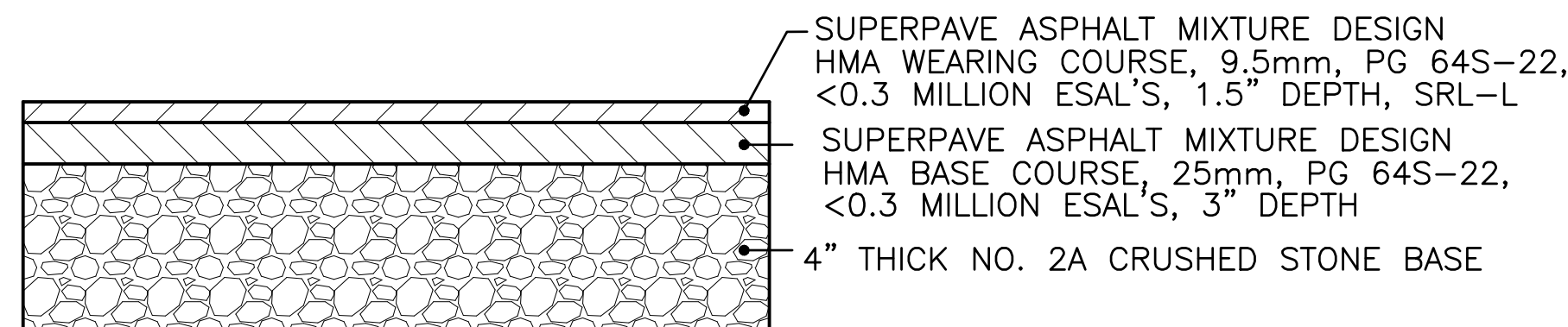


TYPICAL SECTION THROUGH BRICK WALKWAY

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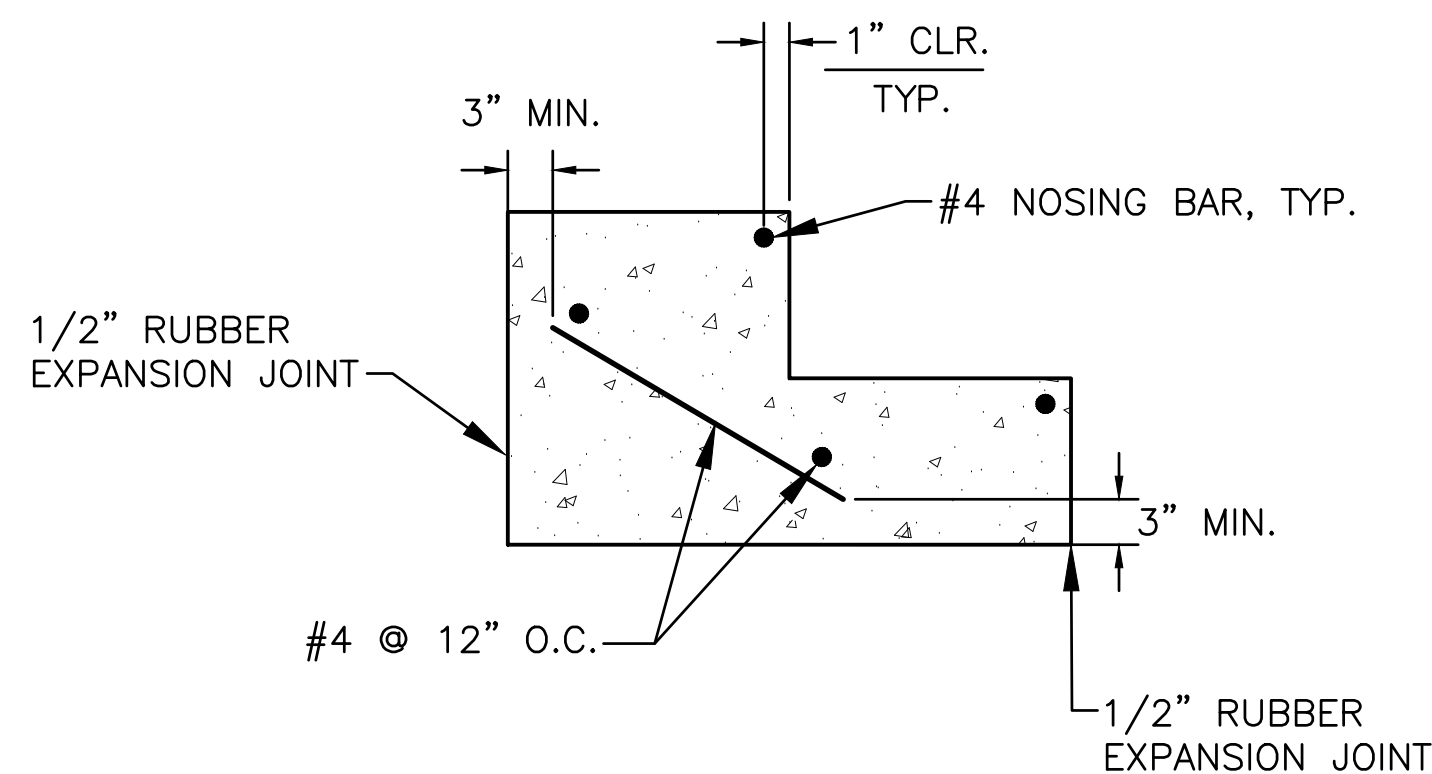


CONCRETE PAD AND SIDEWALK - ELEVATION



TRAIL RESTORATION PAVING SECTION

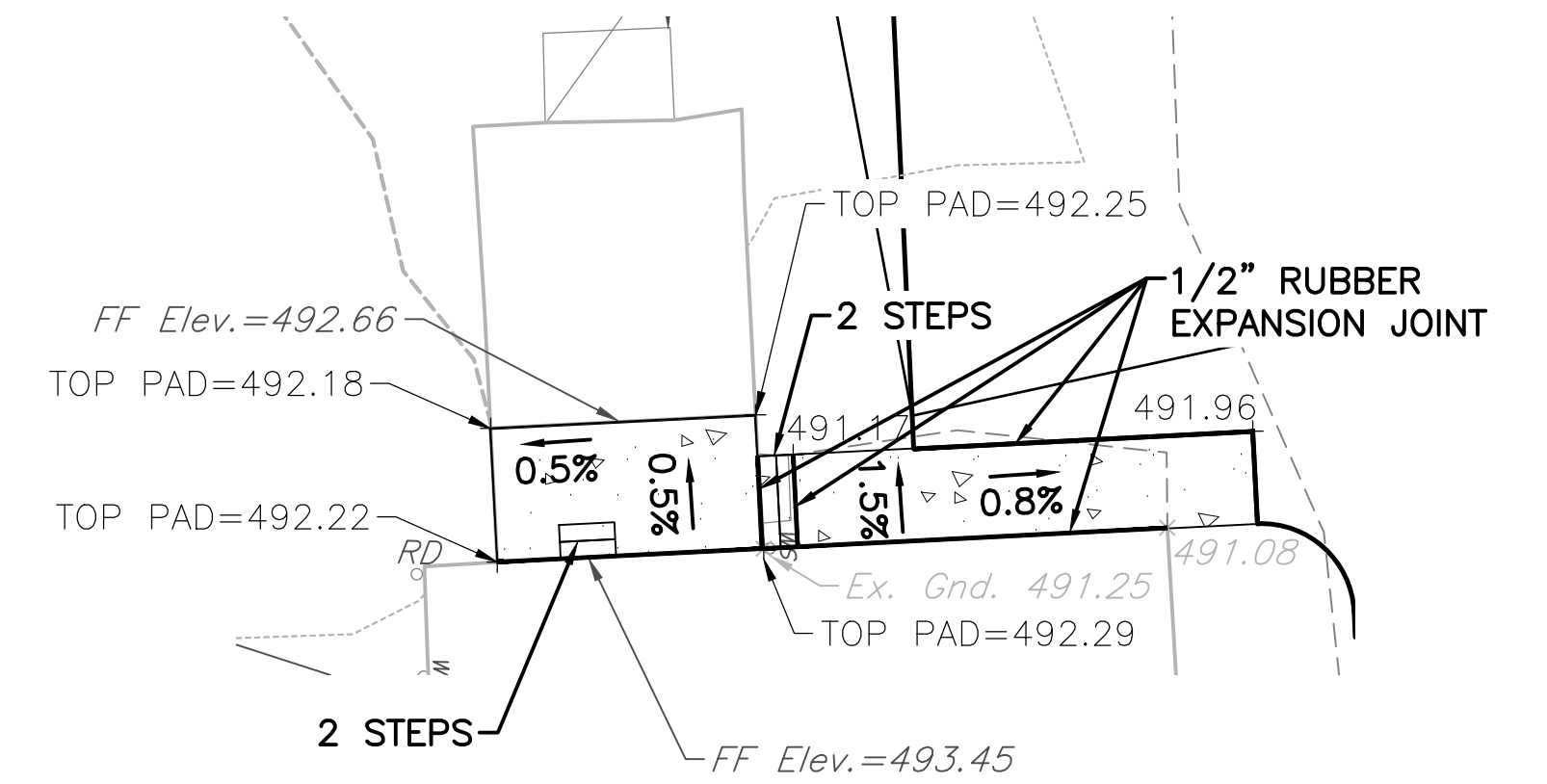
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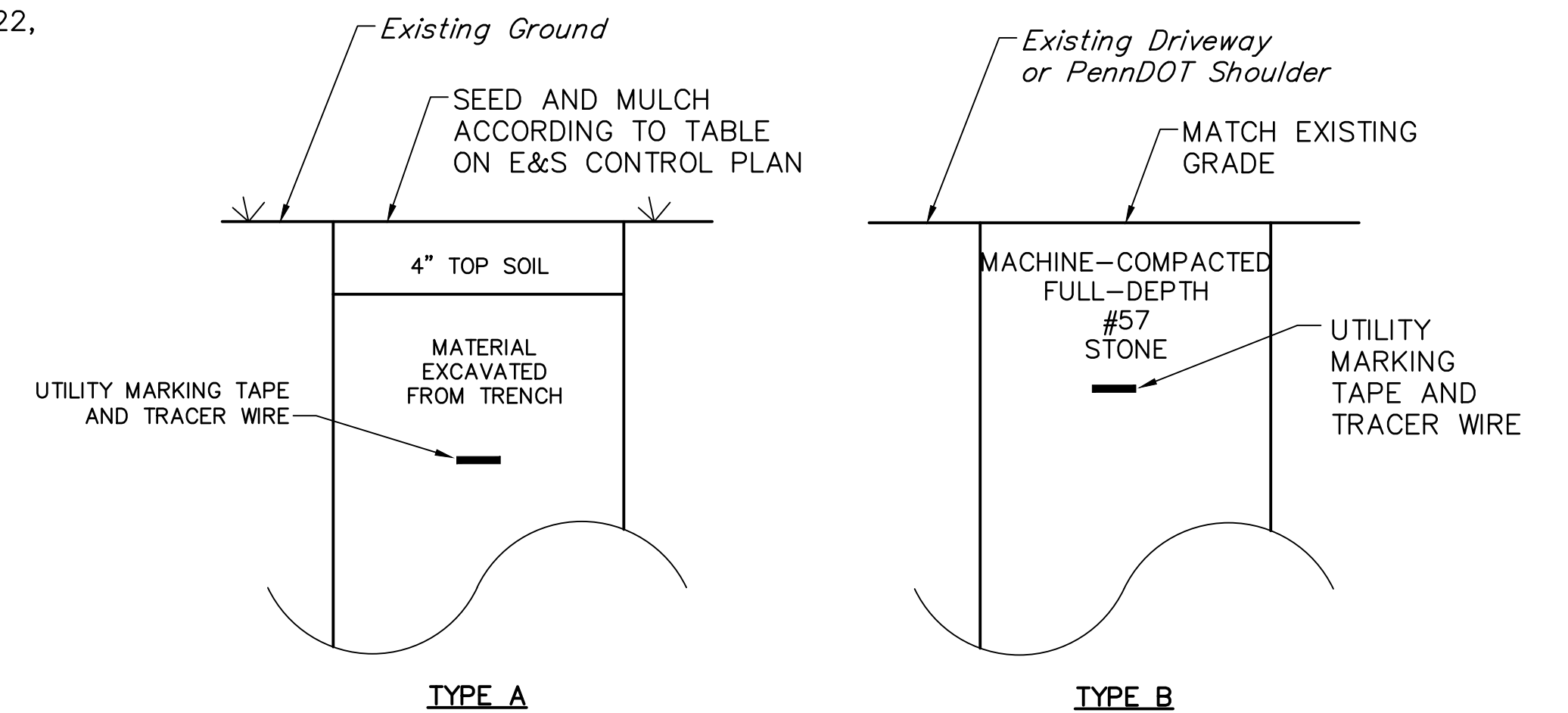
NOTE:
EXACT STAIR CONFIGURATION TO BE FIELD DETERMINED WITH EXISTING CONDITIONS. RISE AND RUN OF STAIRS SHALL COMPLY WITH APPLICABLE INTERNATIONAL RESIDENTIAL CODE (IRC).

CONCRETE STAIR REINFORCING DETAIL

N.T.S.



CONCRETE PAD AND SIDEWALK - PLAN VIEW



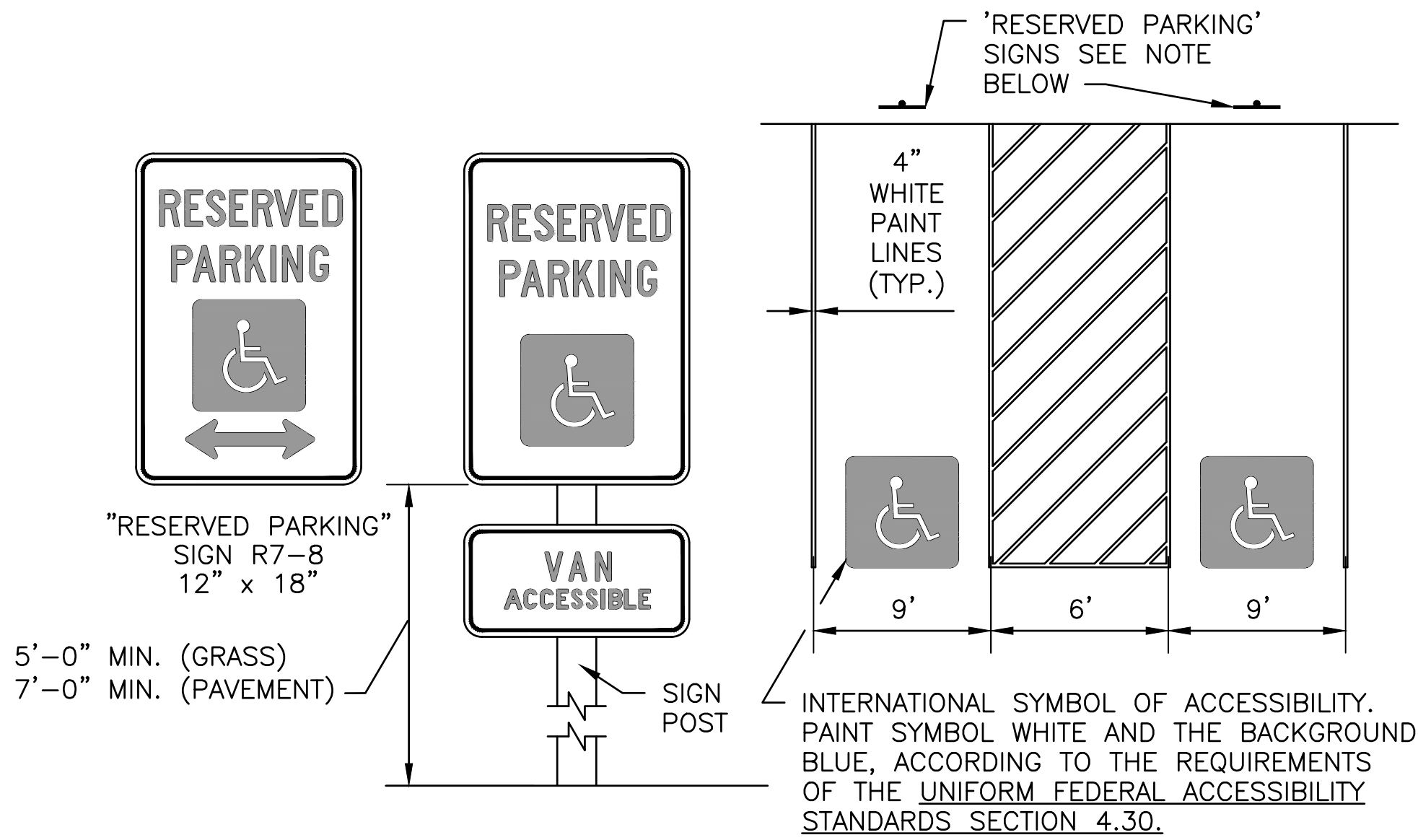
TRENCH TYPE NOTES

1. USE TRENCH TYPE A FOR REPAIRING TRENCH WITHIN THE LIMITS OF THE PennDOT RIGHT-OF-WAY WHERE THE TRENCH IS OUTSIDE THE SHOULDER MORE THAN FIVE FEET (5') FROM THE EDGE OF PAVEMENT.
2. USE TRENCH TYPE B FOR REPAIRING TRENCH WITHIN LIMITS THE PennDOT RIGHT-OF-WAY WHERE THE TRENCH IS WITHIN A GRAVEL SHOULDER OR LESS THAN THREE FEET FROM THE EDGE OF PAVEMENT.
3. ALL COMPACTION SHALL OCCUR TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE.
4. INSTALL 3" METALLIC UTILITY MARKING TAPE AND TRACER WIRE ACCORDING TO MANUFACTURER'S SPECIFICATIONS ABOVE ALL WATER LINES AND PVC CONDUITS.

TRENCH RESTORATION DETAILS

N.T.S.

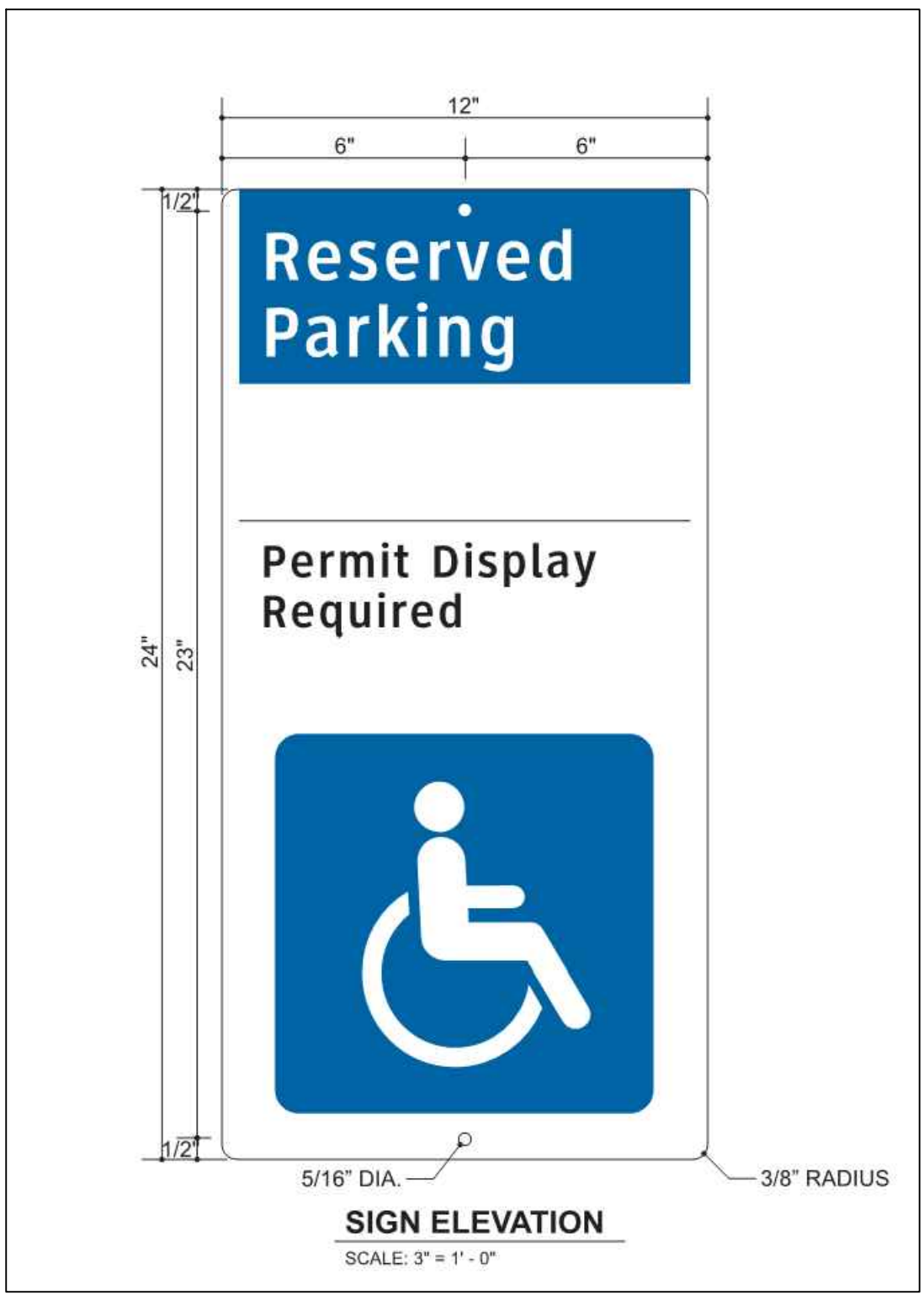
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A/E FIRM - P15PC00037				CWS	NO.	CONSTRUCTION DETAILS	305
PRIME/ARCH: GWMO, INC. BALTIMORE, MD				CADD	C4		178321
CIVIL: CS DAVIDSON GETTYSBURG, PA				CWS			PMIS/PKG. NO.
MECHANICAL: HENRY ADAMS TOWSON, MD				TECH. REVIEW:			257363
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA				FIRE PROTECTION: HENRY ADAMS TOWSON, MD	NCS	GETTYSBURG NATIONAL MILITARY PARK	SHEET
STRUCTURAL: SGH WASHINGTON, DC				DATE: 10/29/2021	of 95		
ELECTRICAL: HENRY ADAMS TOWSON, MD							



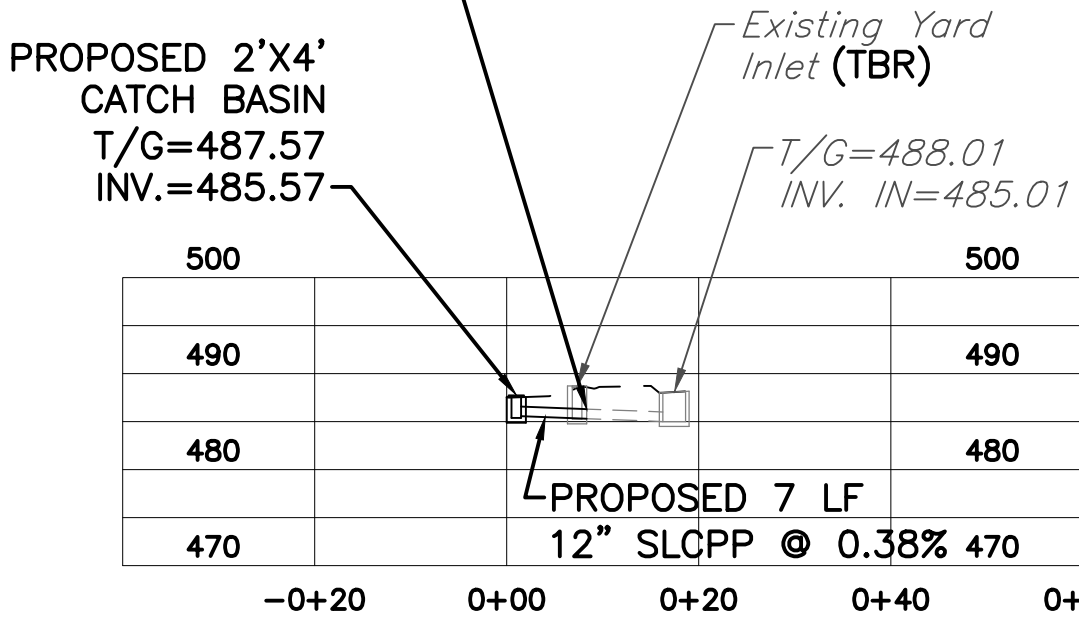
NOTES: RESERVED PARKING SIGNS SHALL BE INSTALLED PER THE NPS SIGN ELEVATION SHOWN. THE SIGN SHALL BE INSTALLED WITH THE BOTTOM OF THE SIGN A MINIMUM OF 5'-0" ABOVE GRADE IN GRASS AREAS AND 7'-0" ABOVE GRADE ON PAVED AREAS. THE HANDICAP PARKING SPACES SHALL BE FURTHER IDENTIFIED BY HAVING AT LEAST THE PERIMETERS OF THE SPACES PAINTED BLUE.

SIGNS LOCATED IN A CONCRETE SIDEWALK AREA SHALL BE PLACED IN A SCHEDULE 40 PVC SLEEVE.

HANDICAPPED ACCESSIBILITY FACILITIES
N.T.S.

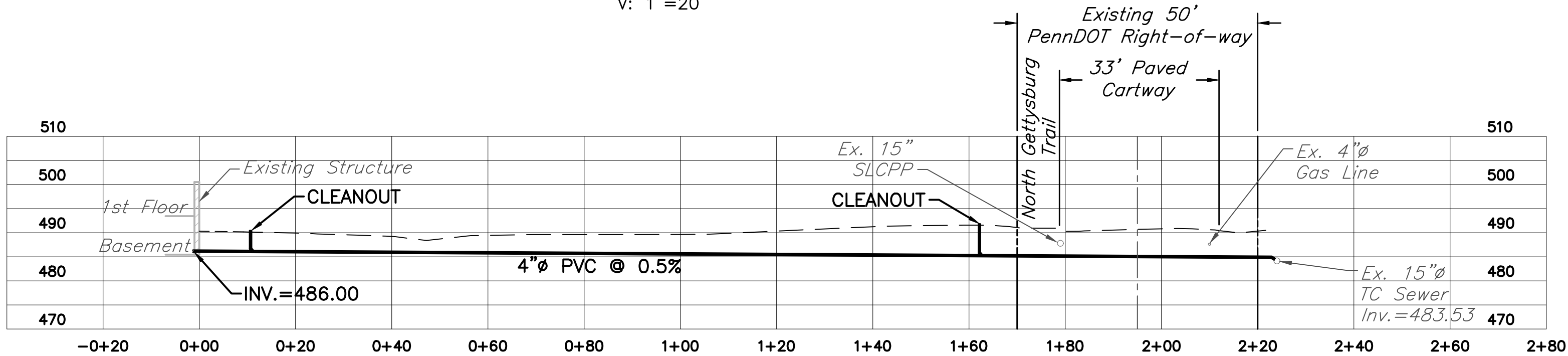


CONNECT TO EXISTING 12" SLCPP WITH COLLAR AND MAINTAIN EXISTING GRADE



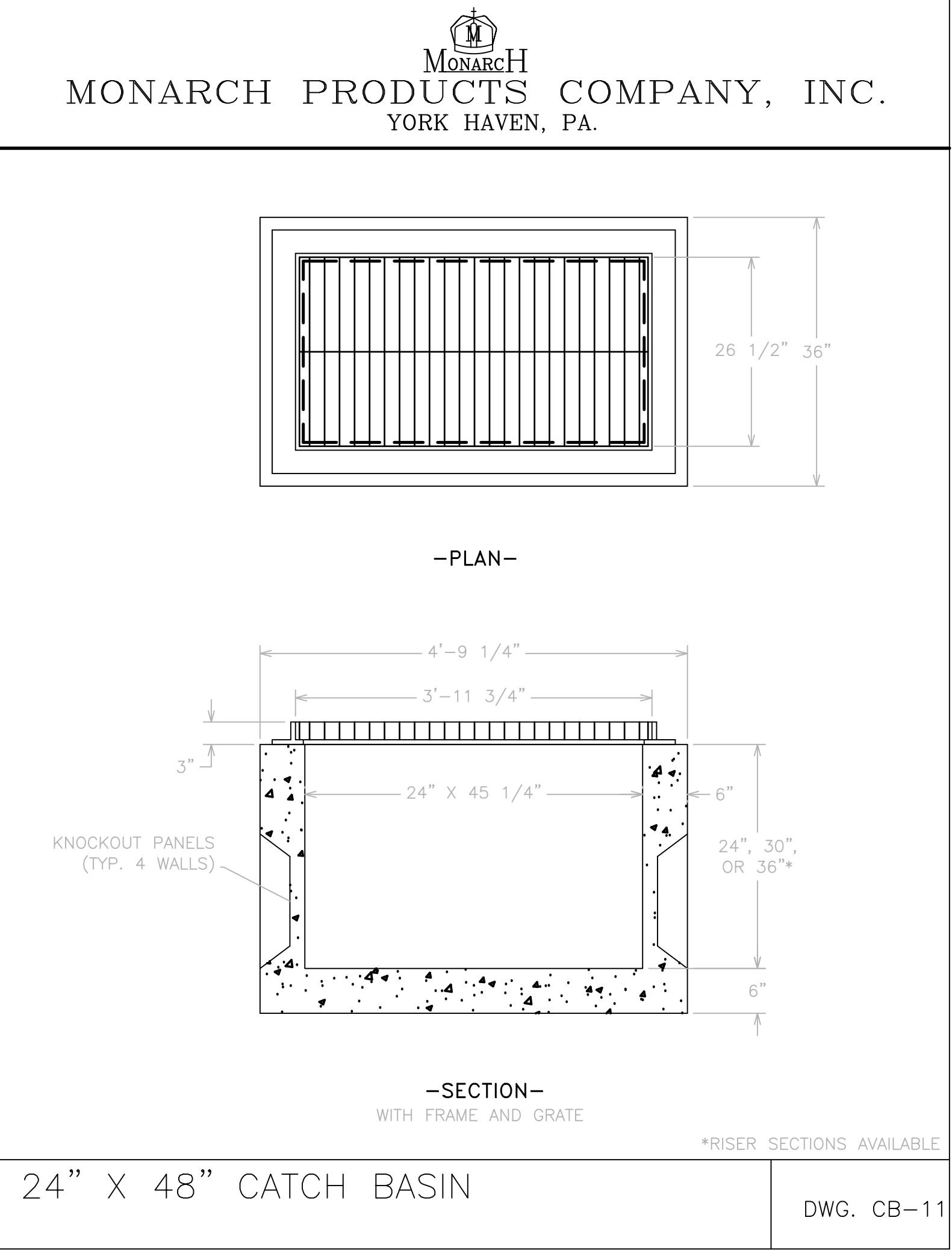
CATCH BASIN TO INLET PROFILE

H: 1"=20'
V: 1"=20'



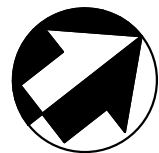
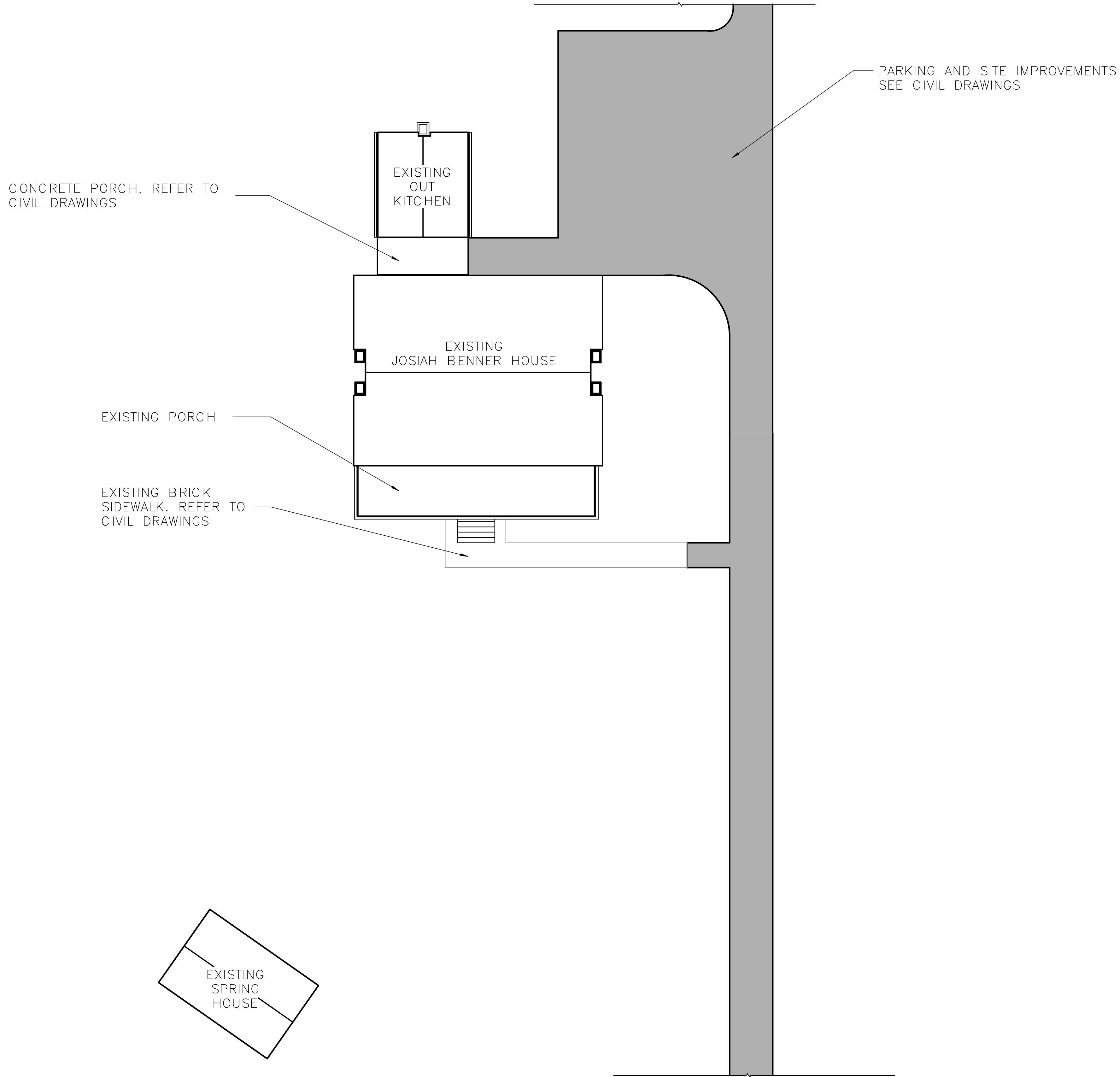
SEWER PROFILE

H: 1"=20'
V: 1"=20'



100% CONSTRUCTION DOCUMENTS BYE FIRM - P15PC00037				DESIGNED: CWS	SUB SHEET NO. C5	TITLE OF SHEET CONSTRUCTION DETAILS	DRAWING NO. 305 178321	
PRIME/ARCH: GWWO, INC. BALTIMORE, MD				CWS			PMIS/PKG. NO. 257363	
CIVIL: CS DAVIDSON GETTYSBURG, PA				TECH. REVIEW: NCS			SHEET	
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA				DATE: 10/29/2021			OF 95	
STRUCTURAL: SGH WASHINGTON, DC				FIRE PROTECTION: HENRY ADAMS TOWSON, MD				GETTYSBURG NATIONAL MILITARY PARK

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1 ARCHITECTURAL SITE PLAN
AS.1 SCALE (A)

ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

LMG

CADD:

LMG

TECH. REVIEW:

SDM

DATE:

02/28/2022

SUB SHEET
NO.

AS.1

TITLE OF SHEET
ARCHITECTURAL SITE
PLAN

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.
305

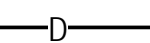
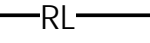
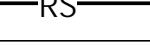
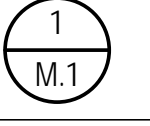





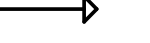
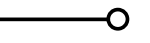
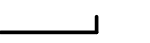

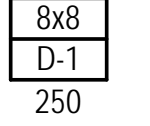
178321

PMIS/PKG NO.
257363

SHEET

10 OF 95

MECHANICAL ABBREVIATIONS			
(APPLICABLE TO ALL MECHANICAL DRAWINGS)			
ACCU	AIR COOLED CONDENSING UNIT	M	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AHU	AIR HANDLING UNIT	MBH	THOUSAND BTU PER HOUR
APD	AIR PRESSURE DROP	MD	MECHANICAL DEMOLITION
APPROX	APPROXIMATE/APPROXIMATELY	MECH	MECHANICAL
		MIN	MINIMUM
BOT	BOTTOM	MOD	MOTOR OPERATED DAMPER
BDD	BACKDRAFT DAMPER		
BTU	BRITISH THERMAL UNIT	N	NORTH
BTUH	BRITISH THERMAL UNIT PER HOUR	NC	NORMALLY CLOSED
		NO	NORMALLY OPEN/NUMBER
CFM	CUBIC FEET PER MINUTE	NOM	NOMINAL
COR	CONTRACT OFFICER REPRESENTATIVE	NTS	NOT TO SCALE
D	DEPTH/DIFFUSER/DAMPER/DROP/DRAIN/DIAMETER	OA	OUTDOOR AIR
DB	DRY BULB	OED	OPEN END DUCT
DN	DOWN	OS	OCCUPANCY SENSOR
DWG	DRAWING		
		PD	PRESSURE DROP
EA	EXHAUST AIR/EACH	PSI	PRESSURE--POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PSIG	PRESSURE--POUNDS PER SQUARE INCH, GAGE
EER	ENERGY EFFICIENCY RATIO		
EF	EXHAUST FAN	R	RADIUS/REGISTER/RISE
ELEC	ELECTRIC/ELECTRICAL	RA	RETURN AIR
ELEV	ELEVATION	RL	REFRIGERANT LIQUID
ESP	EXTERNAL STATIC PRESSURE	RPM	REVOLUTIONS PER MINUTE
EX	EXISTING	RS	REFRIGERANT SUCITON
		RX	REMOVE EXISTING
F	FAHRENHEIT	S	SECONDS/SWITCH
FC	FLEXIBLE CONNECTION	SA	SUPPLY AIR
FP	FIRE PROTECTION	SENS	SENSIBLE
FS	FUEL OIL SUPPLY	SF	SQUARE FEET/SQUARE FOOT
FT	FEET/FOOT	SP	STATIC PRESSURE
G	GRILLE	T	THERMOSTAT
		TEMP	TEMPERATURE
H	HEIGHT/HIGH/HUMIDISTAT	TSP	TOTAL STATIC PRESSURE
HP	HORSEPOWER	TYP	TYPICAL
IN	INCH/INCHES	UH	UNIT HEATER
INS	INSULATION		
		V	VENT
KW	KILOWATT	VD	VOLUME DAMPER
L	LENGTH	WB	WET BULB
LAT	LEAVING AIR TEMPERATURE	WG	WATER GAUGE
LBS	POUNDS		

MECHANICAL LEGEND	
(APPLICABLE TO ALL MECHANICAL DRAWINGS)	
SYMBOL	DESCRIPTION
	CONDENSATE DRAIN
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	PLAN/ SECTION DESIGNATION TOP - PLAN/ SECTION REFERENCE, BOTTOM - REFERENCED DRAWING
	EXHAUST AIR DUCT
	OUTDOOR AIR OR SUPPLY AIR DUCT
	RETURN AIR DUCT
	HUMIDISTAT/HUMIDITY SENSOR
	THERMOSTAT/TEMPERATURE SENSOR
	GRAVITY BACKDRAFT DAMPER
	MOTOR OPERATED DAMPER
	VOLUME DAMPER
	FLEXIBLE CONNECTION
	DIFFUSER TAG: TOP- NECK SIZE CENTER- SPECIFICATION TYPE BOTTOM- AIRFLOW IN CFM

GENERAL MECHANICAL NOTES	
(APPLICABLE TO ALL MECHANICAL DRAWINGS)	
1. COORDINATE ALL MECHANICAL WORK WITH PLUMBING WORK, ELECTRICAL WORK, AND WORK OF OTHER TRADES SHOWN ON OTHER DRAWINGS.	
2. INFORMATION SHOWN ON THE MECHANICAL DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO DEMOLITION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.	
3. REMOVE ALL EXISTING PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE). ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE COR, OR ARE INDICATED TO REMAIN THE PROPERTY OF COR SHALL BE DELIVERED BY THE COR'S CONTRACTOR WHERE DIRECTED BY THE COR'S CONSTRUCTION MANAGER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.	
4. DISCONNECT EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) AND REMOVE PIPING BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC. CAP, PLUG, OR SEAL EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE. NO EXISTING PIPING SHALL BE LEFT UNSEALED.	
5. EXISTING MECHANICAL PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE RE-INSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE COR'S CONSTRUCTION MANAGER AND AT NO ADDITIONAL CONTRACT COST.	
6. REMOVE ALL ACCESSORIES, CONTROLS, ENCLOSURES, SUPPORTS, HANGERS, PADS, ETC. ASSOCIATED WITH ALL EQUIPMENT SHOWN TO BE REMOVED. REPAIR AND PAINT DAMAGED SURFACES AND ALL SURFACES BEHIND ALL EQUIPMENT SHOWN TO BE REMOVED TO MATCH EXISTING ADJACENT SURFACES.	
7. THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.	
8. INSTALL PIPING AND DUCTWORK SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE.	
9. UNLESS OTHERWISE NOTED, ROUTE ALL PIPING AND DUCTWORK OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.	
10. MAINTAIN CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES.	
11. CERTAIN ITEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN DUCTWORK AND PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.	
12. WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRES CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., CHECK FOR THE PRESENCE OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION. EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE SERVICES OR INJURY TO PERSONNEL DUE TO CONTACT WITH SAME. TEMPORARILY DISCONNECT SERVICES DURING THE CUTTING OPERATION. SCHEDULE SERVICE OUTAGES IN ADVANCE WITH THE COR.	
13. FLOW SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATION CONCEPTS AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT. VALVES, PRESSURE GAUGES, ETC. ARE INDICATED FOR THIS PURPOSE. PROVIDE ADDITIONAL VALVES, PRESSURE GAUGES, ETC. AS SHOWN ON VARIOUS EQUIPMENT DETAILS. SEE PLANS AND DETAILS FOR PIPE SIZES NOT INDICATED ON FLOW SCHEDULES AND RISER DIAGRAMS.	
14. CONTRACTOR SHALL BE RESPONSIBLE FOR RESEARCHING ALL SYSTEMS THAT A PARTICULAR OUTAGE WILL AFFECT AS WELL AS LOCATING ALL SHUTOFF POINTS. INCLUDE THIS INFORMATION IN THE OUTAGE PLAN AND SUBMIT TO COR FOR APPROVAL.	
15. EXCEPT AS OTHERWISE NOTED, LOCATE ALL ROOM THERMOSTATS ON SAME HORIZONTAL CENTERLINE AS LIGHT SWITCH. WHERE LIGHT SWITCH AND THERMOSTAT ARE ADJACENT TO EACH OTHER, LIGHT SWITCH SHALL BE CLOSEST TO THE DOOR. COORDINATE WITH ELECTRICAL CONTRACTOR. NOTIFY THE COR OF ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.	
16. RUN ALL DRAIN PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS OTHERWISE NOTED.	
17. RECYCLE ALL MERCURY SWITCH THERMOSTATS THAT ARE REMOVED. RECYCLED THERMOSTATS SHALL BE DELIVERED TO PARTICIPATING WHOLESALERS	

ISSUED FOR BID				DESIGNED:		SUB SHEET NO.		TITLE OF SHEET		DRAWING NO.			
A/E FIRM — P15PC00037				GPZ		MO.0		MECHANICAL COVER SHEET		305			
PRIME/ARCH: GWWO, INC. BALTIMORE, MD		CIVIL: CS DAVIDSON GETTYSBURG, PA		MECHANICAL: HENRY ADAMS TOWSON, MD						PLUMBING: HENRY ADAMS TOWSON, MD		178321	
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA		STRUCTURAL: SGH WASHINGTON, DC		ELECTRICAL: HENRY ADAMS TOWSON, MD						FIRE PROTECTION: HENRY ADAMS TOWSON, MD		PMIS/PKG NO. 257363	
												SHEET	
				DATE: 02/28/2022				GETTYSBURG NATIONAL MILITARY PARK		43 OF 95			

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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

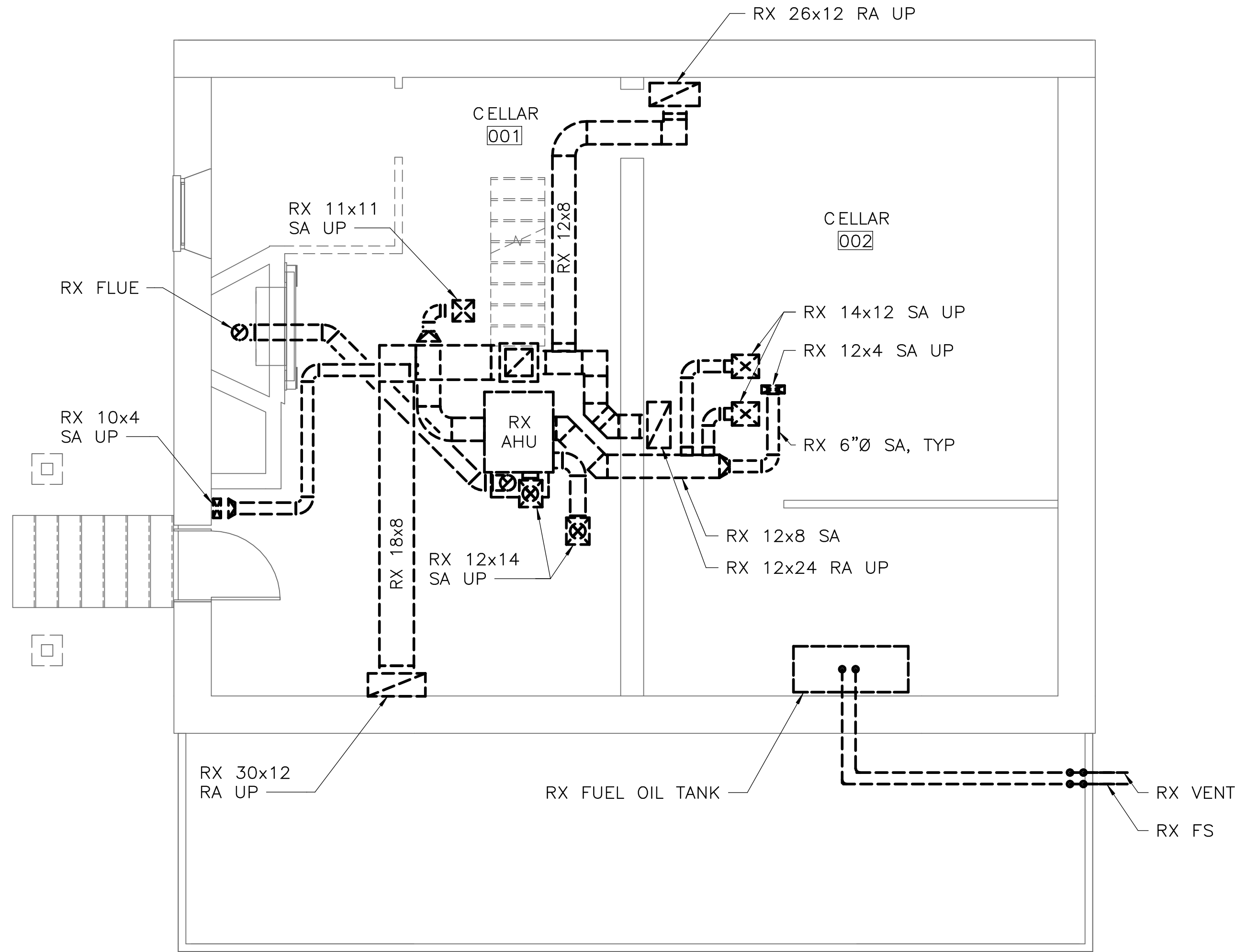
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2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - -

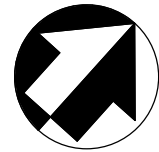
3. CONTRACTOR SHALL IDENTIFY REMOVAL OF ALL MECHANICAL DUCTWORK AND EQUIPMENT AND REVIEW WITH COR BEFORE REMOVING. WORK REMOVED WITHOUT PRIOR CONFIRMATION THAT WAS NOT INTENDED TO BE REMOVED SHALL BE REPLACED IN SAME OR BETTER CONDITION AT CONTRACTOR'S COST.

4. PATCH AND SEAL ALL EXISTING OPENINGS IN WALLS AND FLOORS WHERE DUCTWORK, PIPING, CONDUIT, ETC IS REMOVED.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

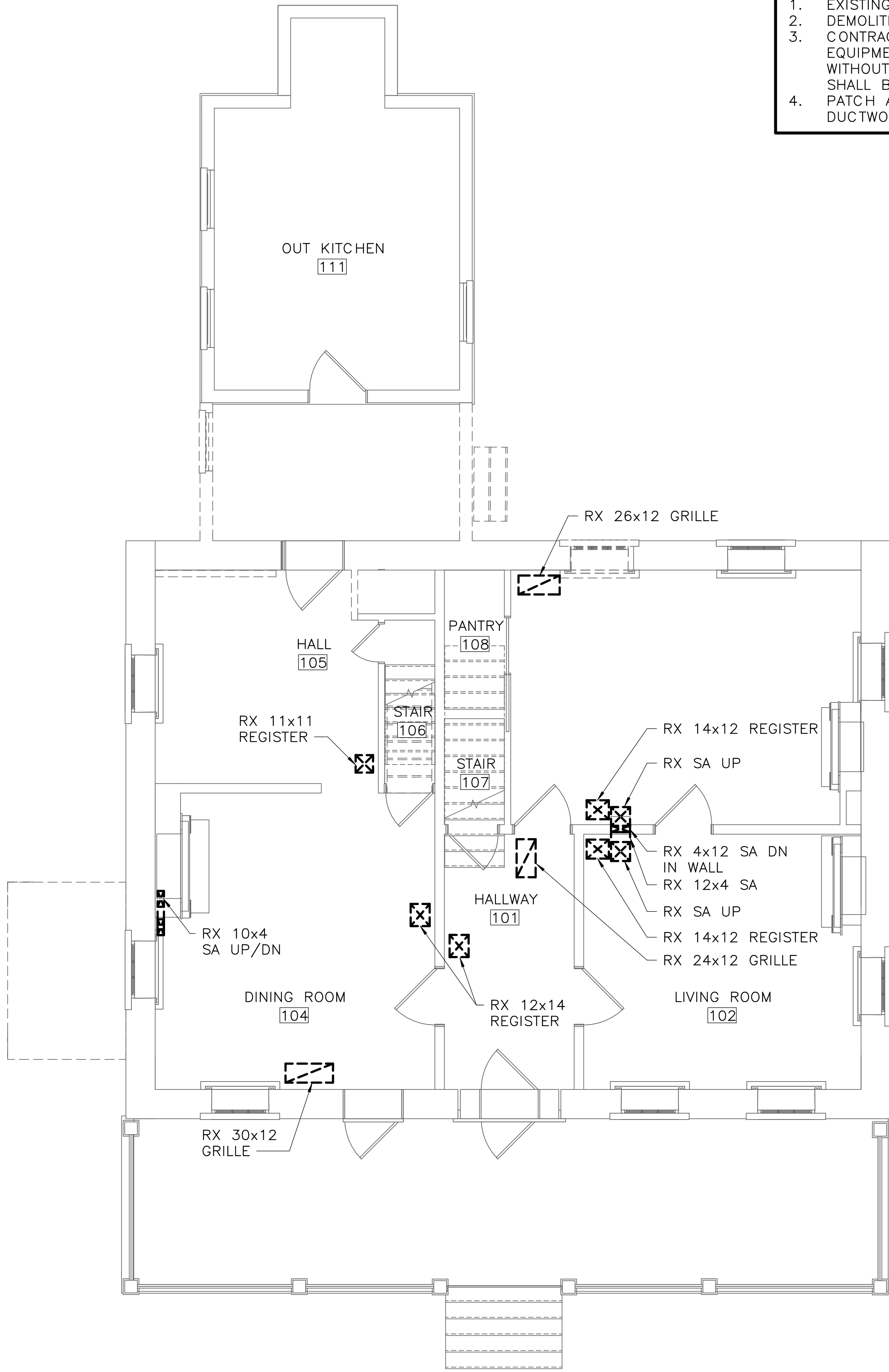


1 CELLAR — MECHANICAL — DEMOLITION
MD1.1 SCALE (B)



ISSUED FOR BID A/E FIRM — P15PC00037				DESIGNED:	SUB SHEET NO. MD1.1	TITLE OF SHEET CELLAR — DEMOLITION — MECHANICAL	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD:			178321
				GPZ			PMIS/PKG NO. 257363
				TECH. REVIEW:			
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	SRH			SHEET 44 OF 95
				DATE: 02/28/2022			
						GETTYSBURG NATIONAL MILITARY PARK	

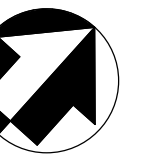
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - -
3. CONTRACTOR SHALL IDENTIFY REMOVAL OF ALL MECHANICAL DUCTWORK AND EQUIPMENT AND REVIEW WITH COR BEFORE REMOVING. WORK REMOVED WITHOUT PRIOR CONFIRMATION THAT WAS NOT INTENDED TO BE REMOVED SHALL BE REPLACED IN SAME OR BETTER CONDITION AT CONTRACTOR'S COST.
4. PATCH AND SEAL ALL EXISTING OPENINGS IN WALLS AND FLOORS WHERE DUCTWORK, PIPING, CONDUIT, ETC IS REMOVED.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)



1 FIRST FLOOR — MECHANICAL — DEMOLITION
MD1.2 SCALE (B)

ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
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CIVIL:
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GETTYSBURG, PA

MECHANICAL:
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TOWSON, MD

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HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

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WASHINGTON, DC

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FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

MD1.2

TITLE OF SHEET

FIRST FLOOR —
DEMOLITION —
MECHANICAL

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

PMIS/PKG NO.

257363

SHEET

45 OF 95

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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

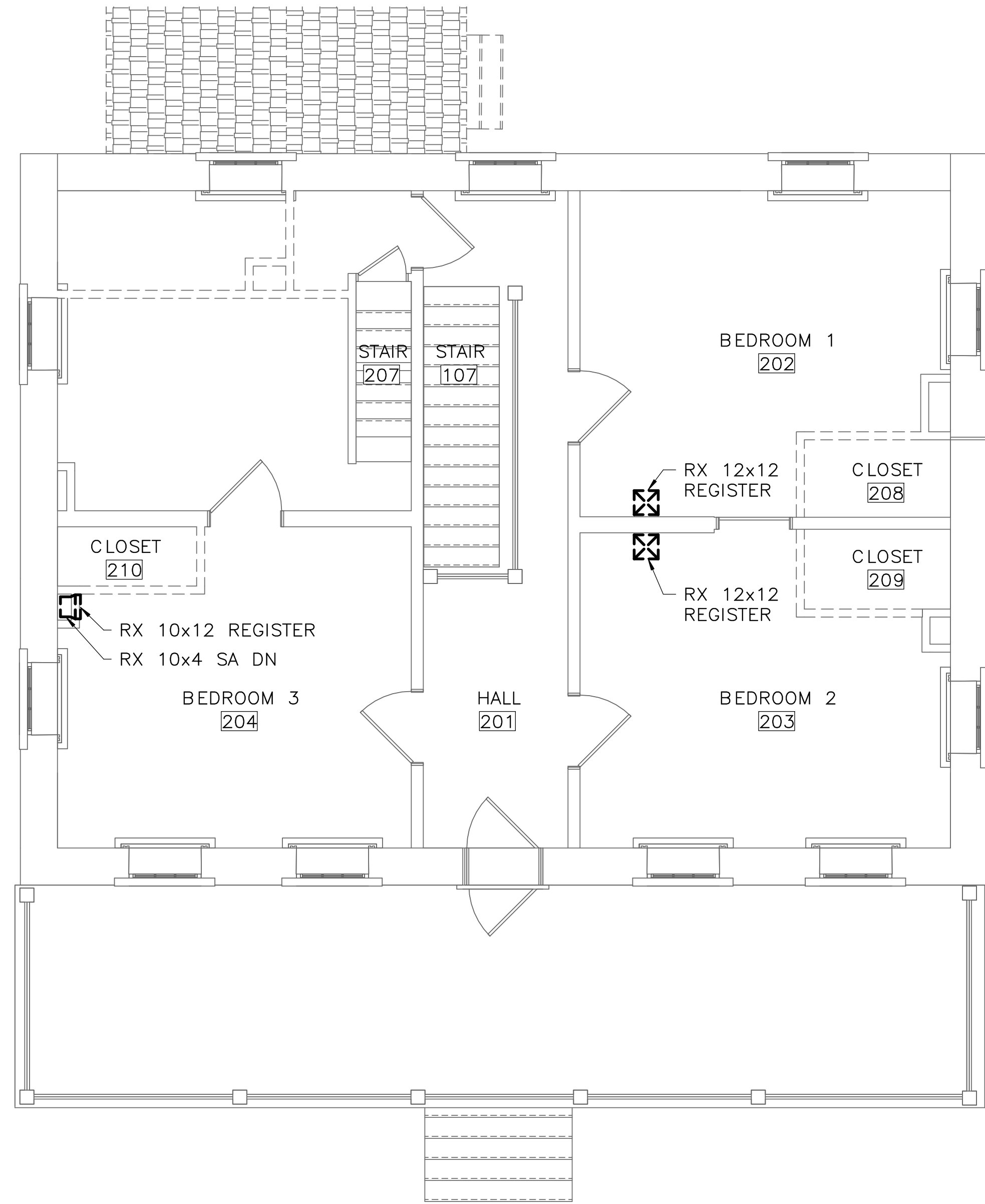
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2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - -

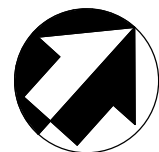
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4. PATCH AND SEAL ALL EXISTING OPENINGS IN WALLS AND FLOORS WHERE DUCTWORK, PIPING, CONDUIT, ETC IS REMOVED.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)



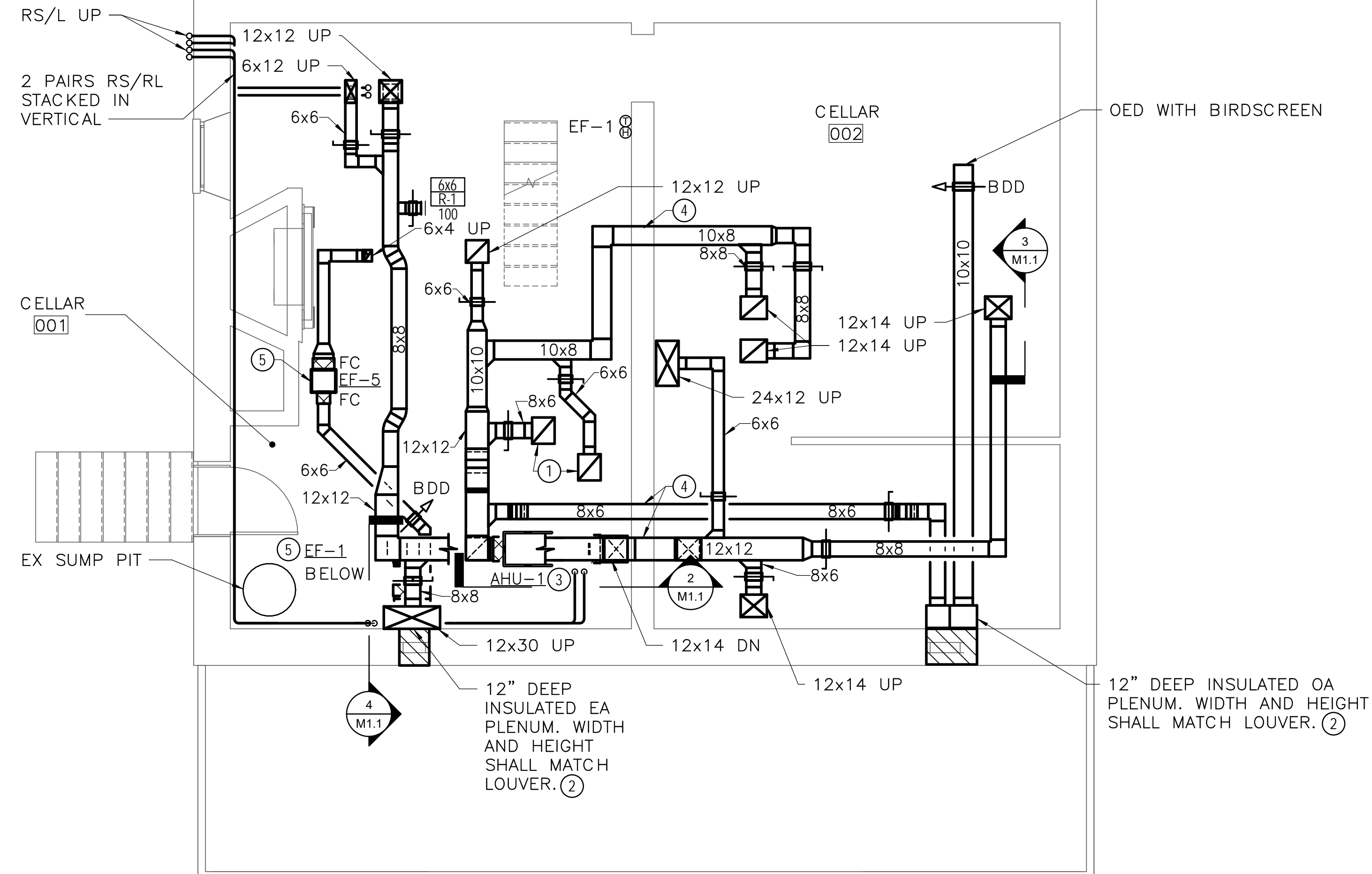
1 SECOND FLOOR — MECHANICAL — DEMOLITION
MD1.3 SCALE (B)



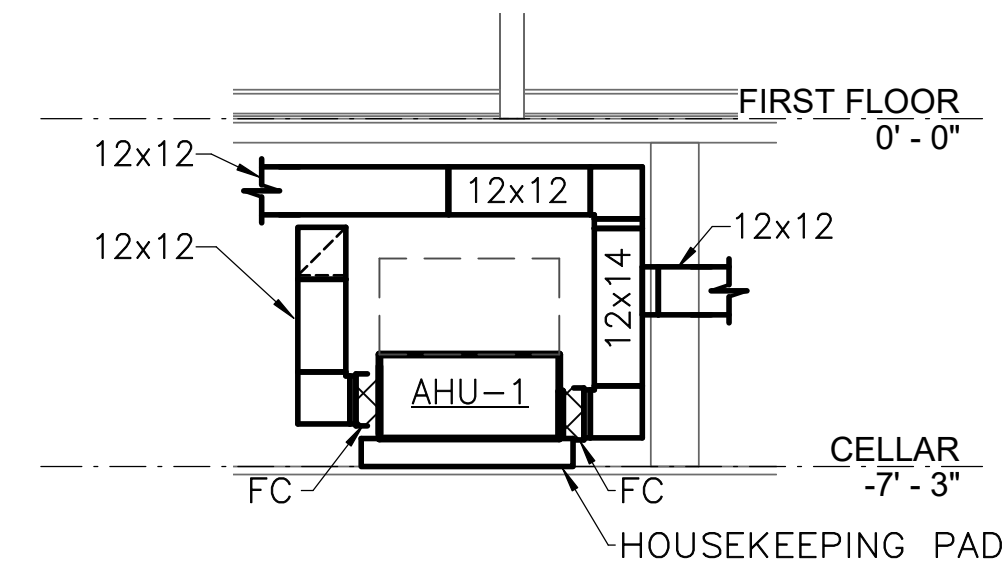
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PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD:			PMIS/PKG NO. 257363
				GPZ			
				TECH. REVIEW:			
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	SRH	DATE: 02/28/2022	SHEET 46 OF 95	

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, _____
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, _____
3. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.
4. ALL AIR DEVICES SHALL BE PROVIDED WITHOUT INTEGRAL DAMPERS. ALL AIR DEVICES SHALL BE PROVIDED WITH A DUCT MOUNTED DAMPER AT DUCT TAKE-OFF.
5. IF DIFFUSER RUNOUT IS NOT INDICATED THEN RUNOUT SIZE IS SAME AS THE AIR DEVICE NECK SIZE.
6. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

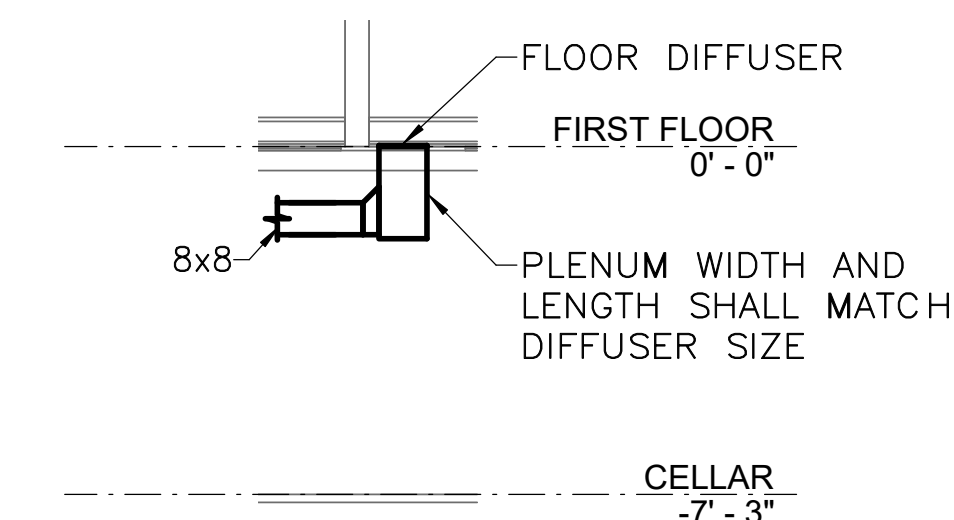
- ① 12x14 UP
- ② CONNECT TO LOUVER PROVIDED UNDER ANOTHER DIVISION
- ③ MOUNT ON 4" HOUSEKEEPING PAD
- ④ ROUTE DUCT THROUGH NEW WALL PENETRATION
- ⑤ SUPPORT FROM ABOVE



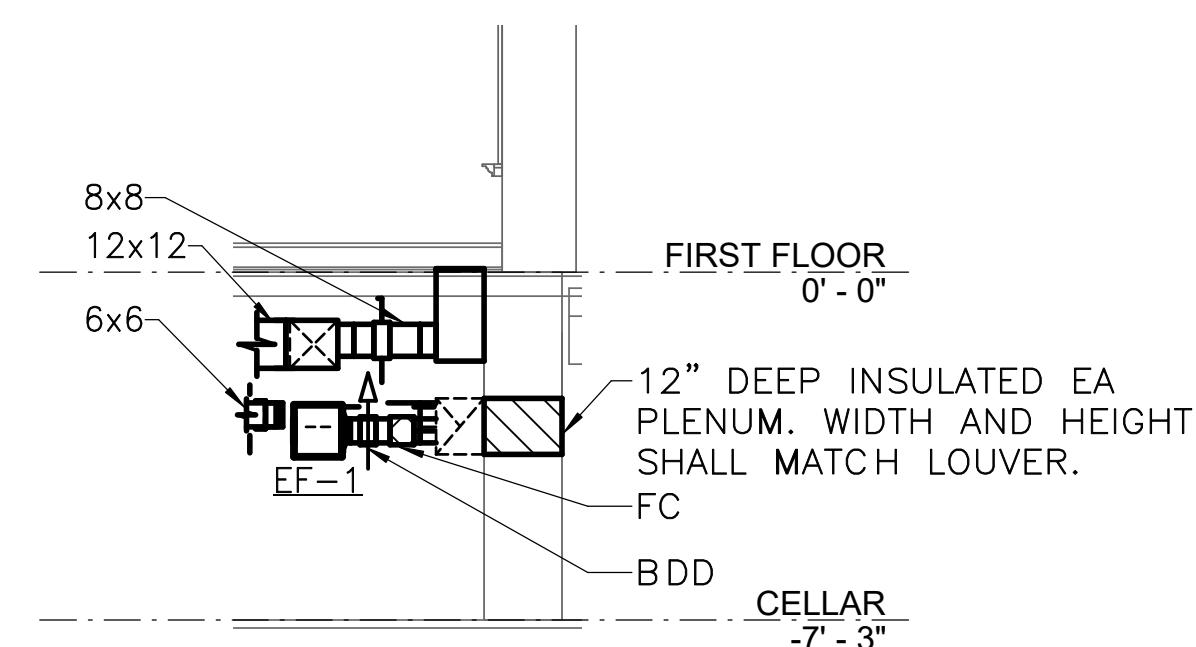
1 CELLAR — MECHANICAL — NEW WORK
M1.1 SCALE (B)



2 AHU-1 - NEW WORK - SECTION
M1.1 SCALE (B)



3 TYPICAL DUCT CONNECTION TO FLOOR DIFFUSER – NEW WORK – SECTION
M1.1 SCALE (B)





4 BASEMENT EXHAUST – NEW WORK – SECTION
M1.1 SCALE (B)



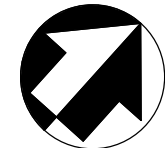
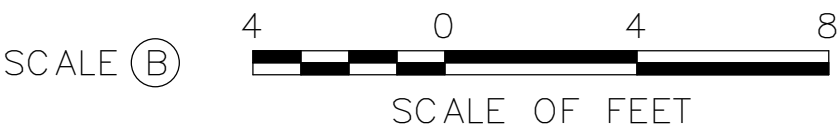
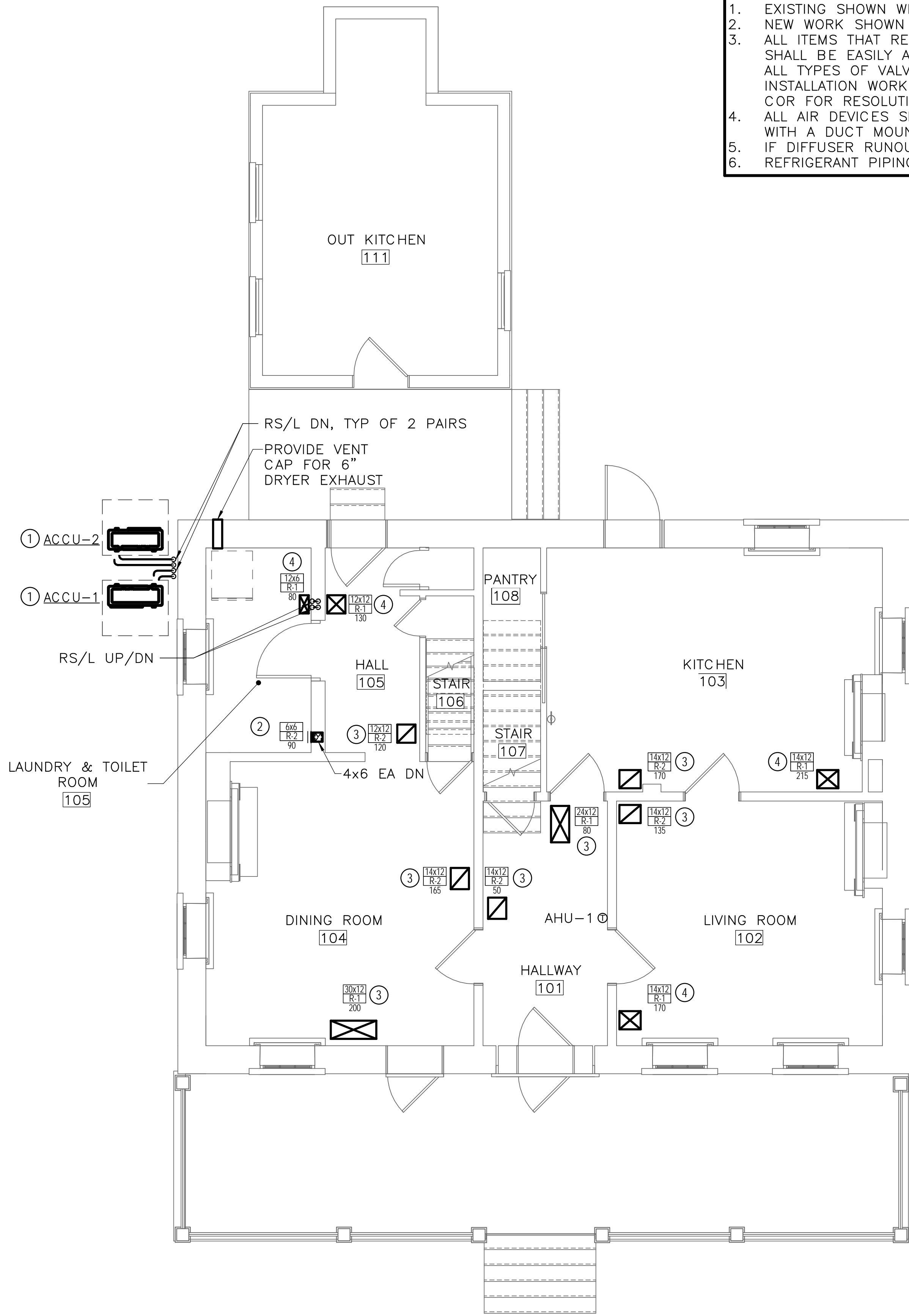
ISSUED FOR BID				DRAWING NO.	
A/E FIRM - P15PC00037				305	
PRIME/ARCH: CIVIL: MECHANICAL: PLUMBING: GWNO, INC. C S DAVIDSON HENRY ADAMS HENRY ADAMS BALTIMORE, MD GETTYSBURG, PA TOWSON, MD TOWSON, MD				SUB SHEET NO.	
				TITLE OF SHEET	
				CELLAR - NEW WORK	
				- MECHANICAL	
LANDSCAPE: STRUCTURAL: ELECTRICAL: FIRE PROTECTION: C S DAVIDSON SGH HENRY ADAMS HENRY ADAMS GETTYSBURG, PA WASHINGTON, DC TOWSON, MD TOWSON, MD				PMIS/PKG. NO.	
DESIGNED:				257363	
GPZ				SHEET	
CADD:				47 OF 95	
GPZ					
TECH. REVIEW:					
SRH					
DATE:					
02/28/2022					
				GETTYSBURG NATIONAL MILITARY PARK	

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- EXISTING SHOWN WITH LIGHT WEIGHT LINE, 
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE, 
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- ALL AIR DEVICES SHALL BE PROVIDED WITHOUT INTEGRAL DAMPERS. ALL AIR DEVICES SHALL BE PROVIDED WITH A DUCT MOUNTED DAMPER AT DUCT TAKE-OFF.
- IF DIFFUSER RUNOUT IS NOT INDICATED THEN RUNOUT SIZE IS SAME AS THE AIR DEVICE NECK SIZE.
- REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- MOUNT ON 4" HOUSKEEPING PAD
- MOUNT BOTTOM OF REGISTER 7'-0" AFF
- INSTALL REGISTER IN EXISTING FLOOR HOLE. VERIFY SIZE IN FIELD AND SUBMIT TO COR FOR APPROVAL.
- CREATE NEW HOLE IN FLOOR TO INSTALL REGISTER



1 FIRST FLOOR – MECHANICAL – NEW WORK
M1.2 SCALE (B)

ISSUED FOR BID

A/E FIRM - P15PC00037

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GETTYSBURG, PA

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TOWSON, MD

PLUMBING:
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TOWSON, MD

LANDSCAPE:
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GETTYSBURG, PA

STRUCTURAL:
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WASHINGTON, DC

ELECTRICAL:
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TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

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TECH. REVIEW:

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DATE:

02/28/2022

SUB SHEET NO.

M1.2

TITLE OF SHEET
FIRST FLOOR – NEW
WORK – DUCTWORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

PMIS/PKG NO.

257363

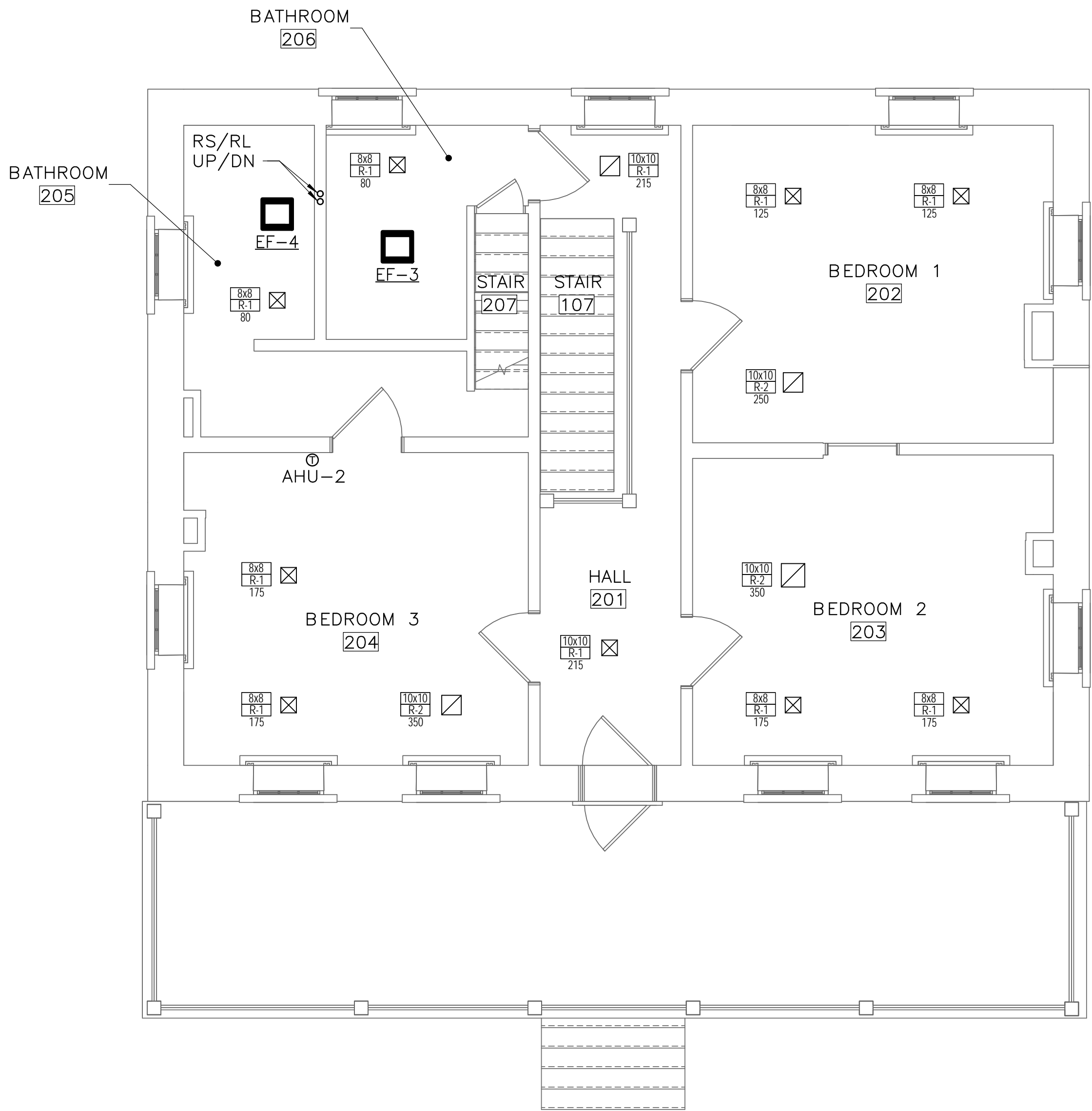
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48 OF 95

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

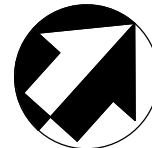
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, —
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- IF DIFFUSER RUNOUT IS NOT INDICATED THEN RUNOUT SIZE IS SAME AS THE AIR DEVICE NECK SIZE.
- REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)



1 SECOND FLOOR — MECHANICAL — NEW WORK
M1.3 SCALE (B)

SCALE (B) 4 0 4 8
SCALE OF FEET



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
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CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
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TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
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WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

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CADD:

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TECH. REVIEW:

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DATE:

02/28/2022

SUB SHEET NO.

M1.3

TITLE OF SHEET

SECOND FLOOR — NEW
WORK — DUCTWORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

PMIS/PKG NO.

257363

SHEET

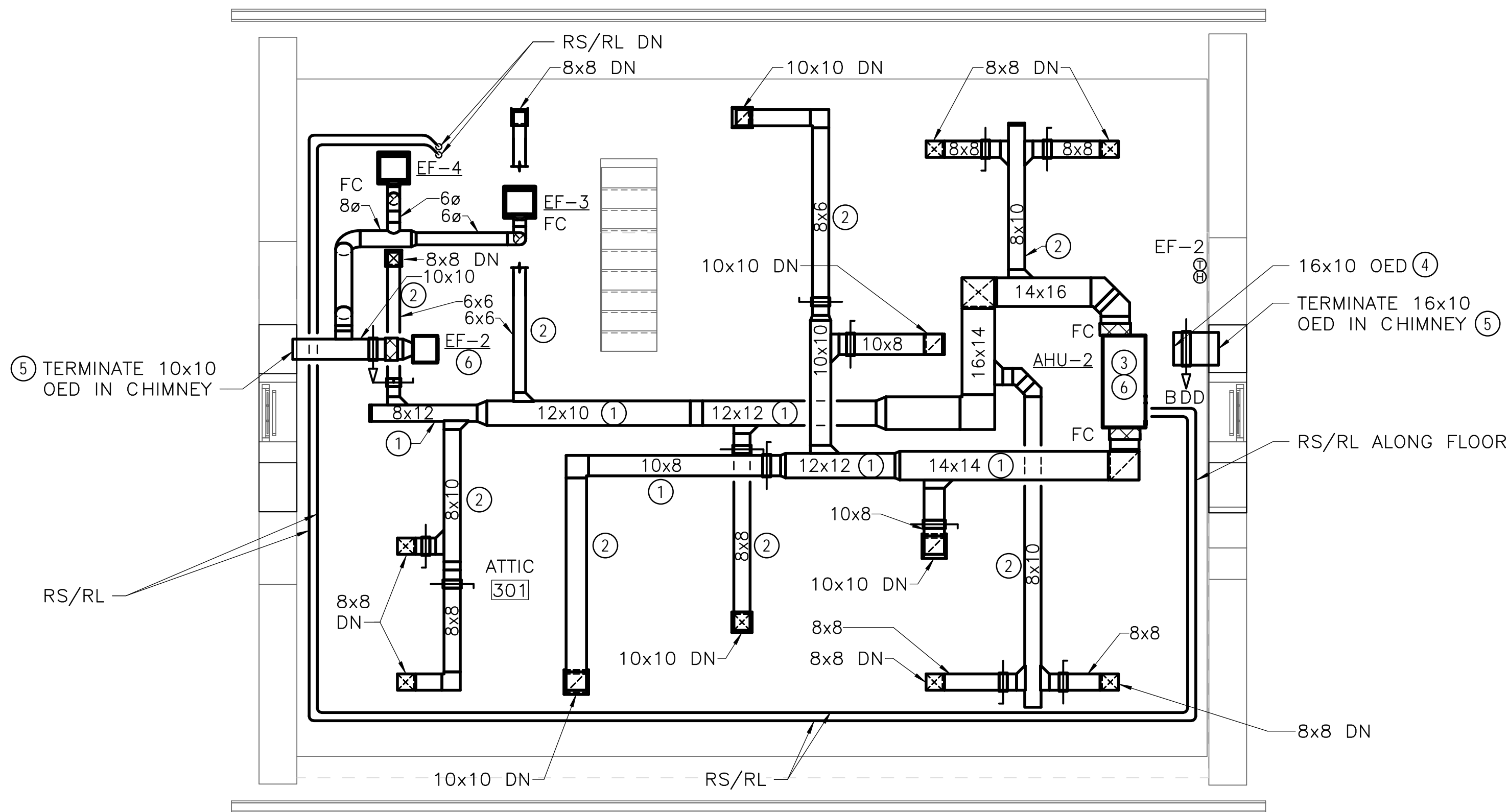
49 OF 95

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- EXISTING SHOWN WITH LIGHT WEIGHT LINE, —
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE, —
- ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.
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- REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- INSTALL DUCTWORK HIGH AT ROOF PEAK
- SLOPE DUCTWORK DOWN PARALLEL TO AND CLOSE TO THE ROOF
- PROVIDE SECONDARY DRAIN PAN WITH LIQUID LEVEL SENSOR
- PROVIDE BIRD SCREEN OVER DUCT OPENING
- SEAL DUCT PENETRATION AND CHIMNEY BELOW PENETRATION TO MAKE AIR AND WATER TIGHT
- SUPPORT FROM ABOVE



1 ATTIC — MECHANICAL — NEW WORK
M1.4
SCALE (B)

SCALE (B) 4 0 4 8
SCALE OF FEET



ISSUED FOR BID

A/E FIRM - P15PC00037

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GETTYSBURG, PA

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TOWSON, MD

PLUMBING:
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TOWSON, MD

LANDSCAPE:
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GETTYSBURG, PA

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WASHINGTON, DC

ELECTRICAL:
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TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

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TECH. REVIEW:

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DATE:

02/28/2022

SUB SHEET NO.

M1.4

TITLE OF SHEET

ATTIC — NEW WORK —
MECHANICAL

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

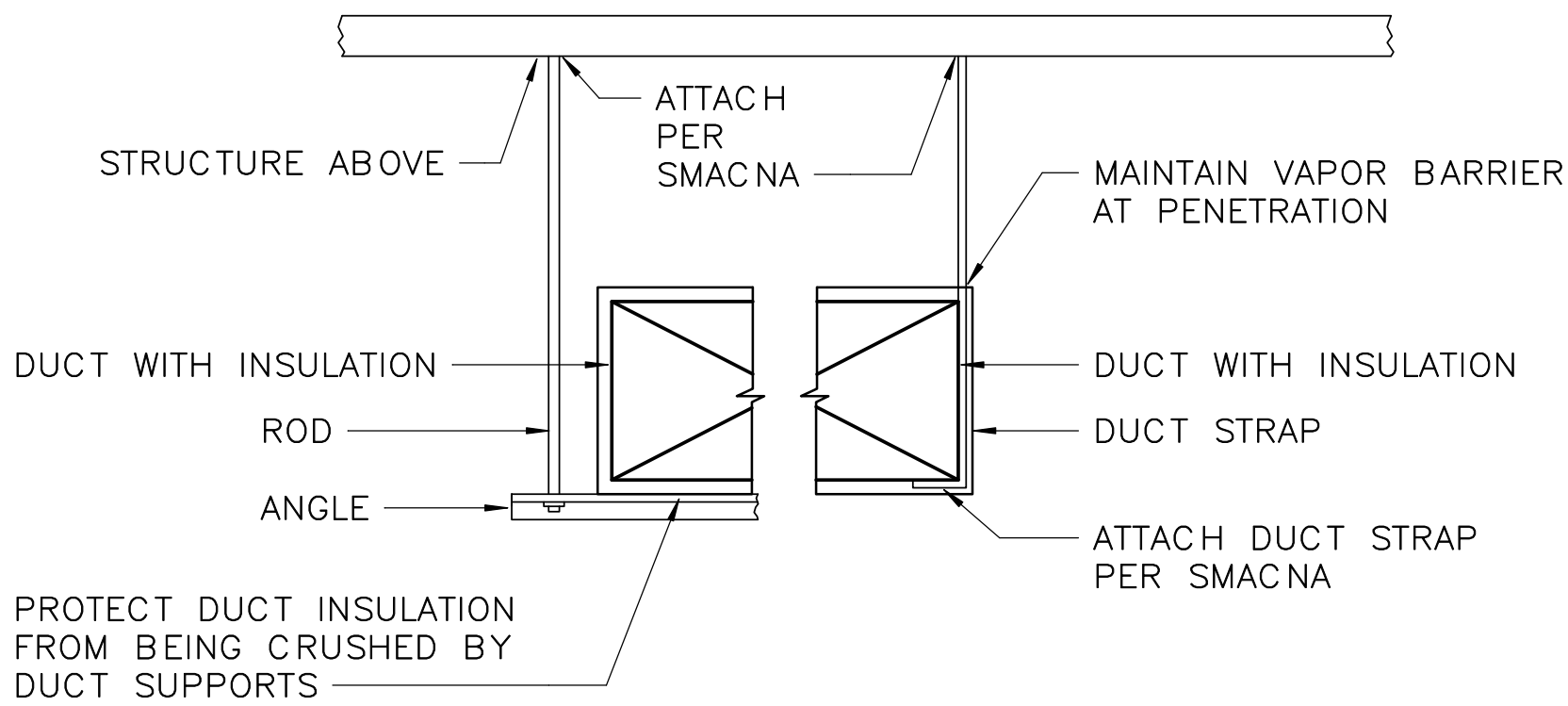
PMIS/PKG NO.

257363

SHEET

50 OF 95

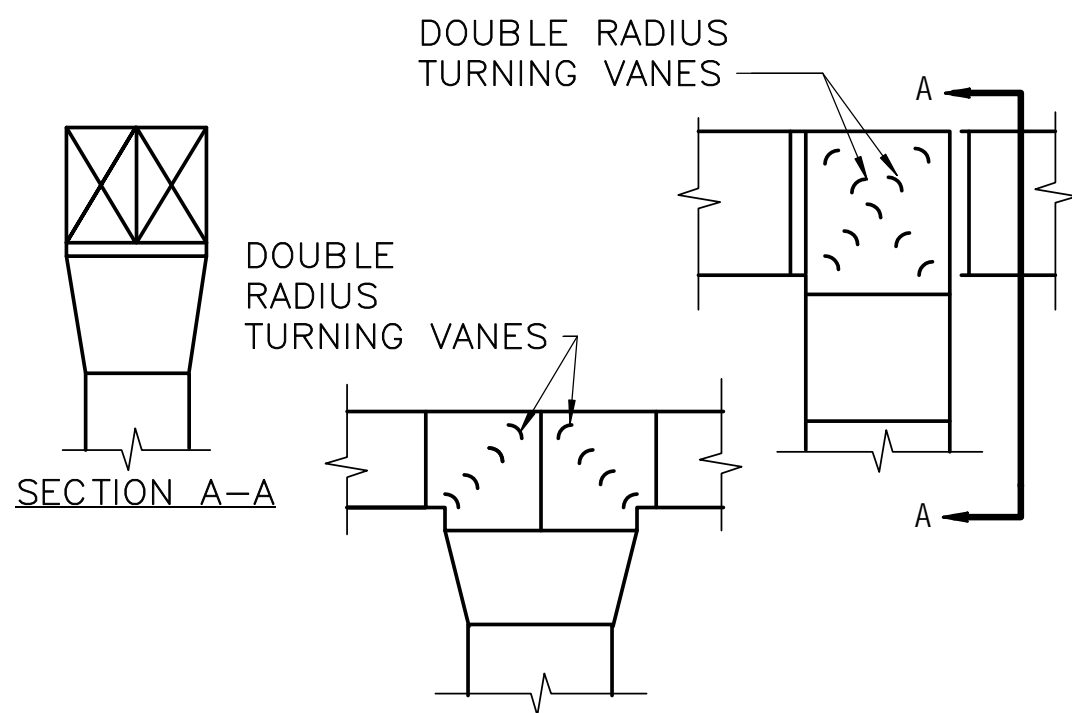
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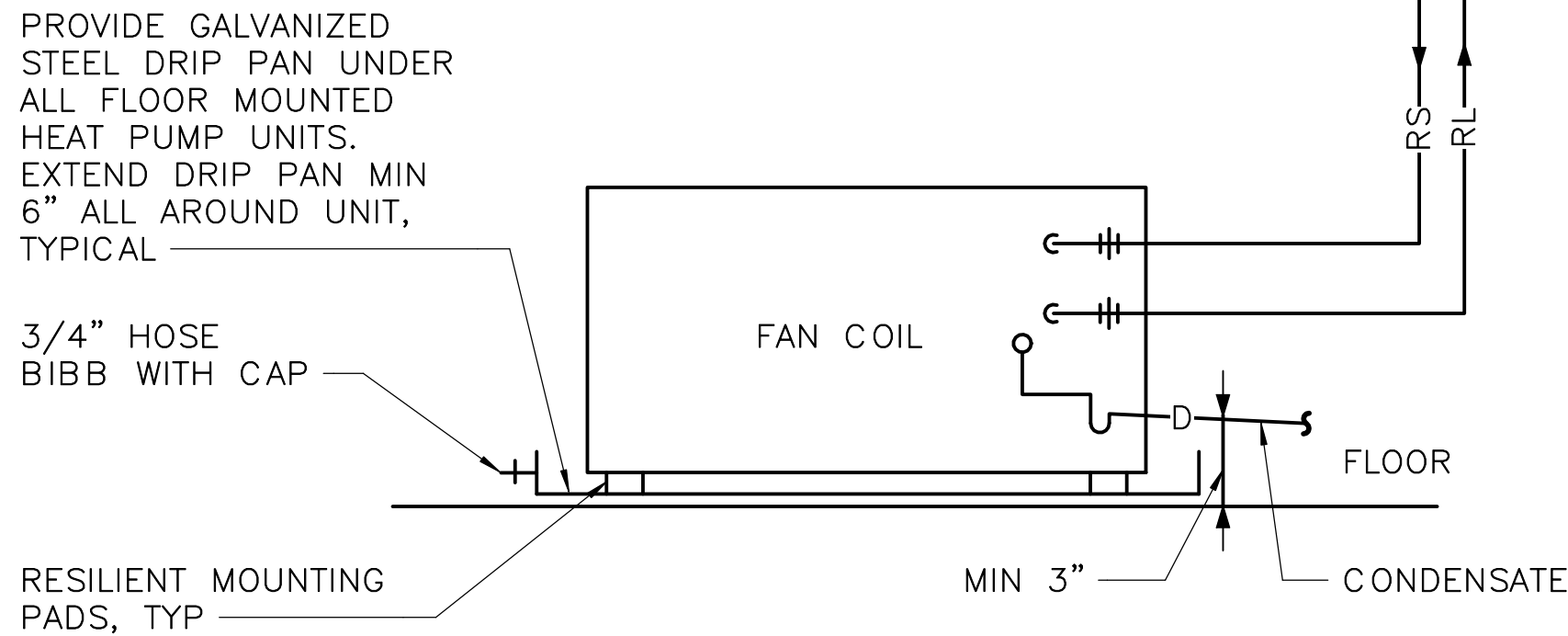
NOTES:

1. REFER TO SMACNA FOR ADDITIONAL HANGERS AND SUPPORTS

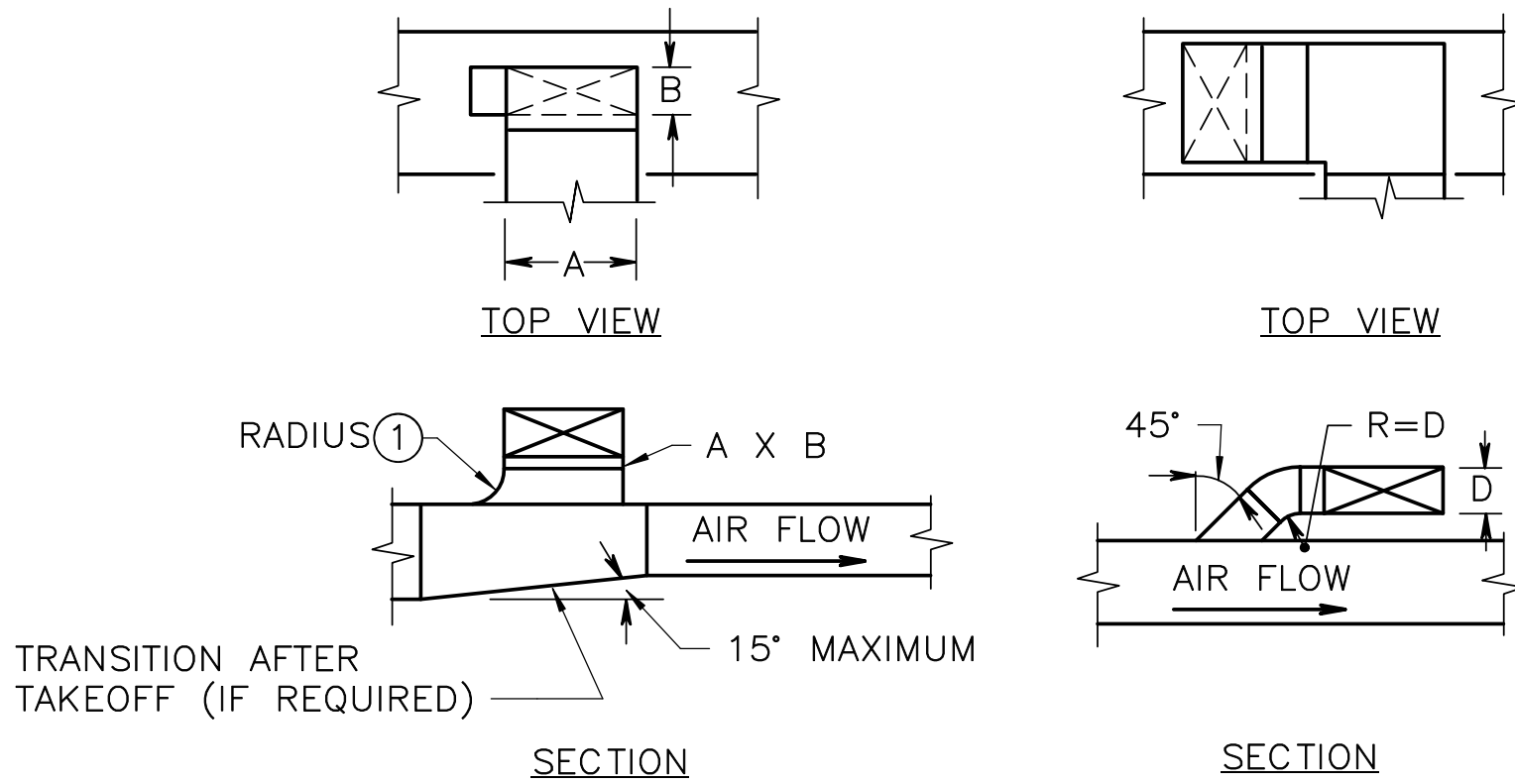
DUCT INSULATION SUPPORT



DUCT SPLITS



FAN COIL UNIT PIPING AND DRIP PAN



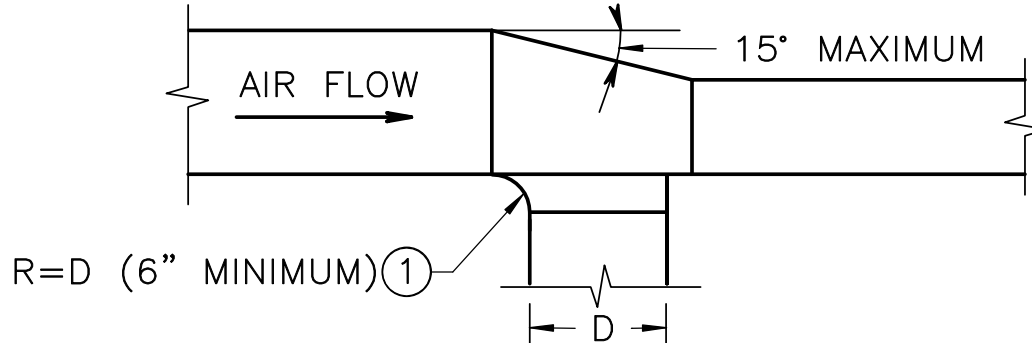
NOTES:

1. BOTTOM TAKEOFFS SIMILAR.
2. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

SPECIAL NOTES:

- 1 45° TAP PERMITTED FOR DUCTWORK RATED 2" W.G. OR LESS.

TAKEOFFS FROM TOP OF RECTANGULAR DUCTS



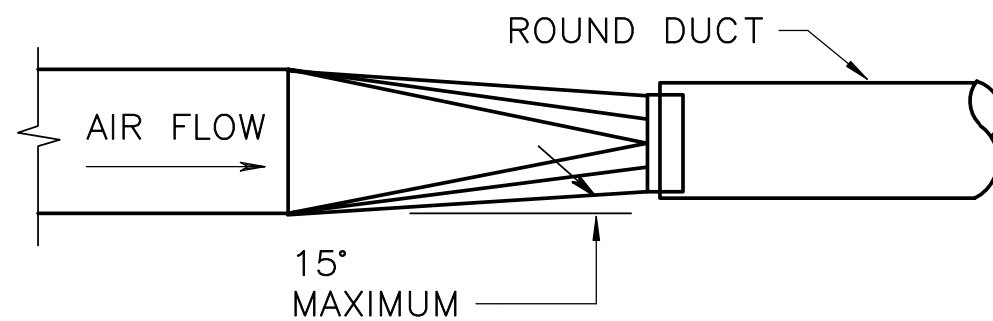
NOTES:

1. SEE SMACNA MANUAL FOR METHODS OF SECURING TAP-OFF CONNECTION TO MAIN.
2. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

SPECIAL NOTES:

- 1 45° TAP PERMITTED FOR DUCTWORK RATED 2" W.G. OR LESS.

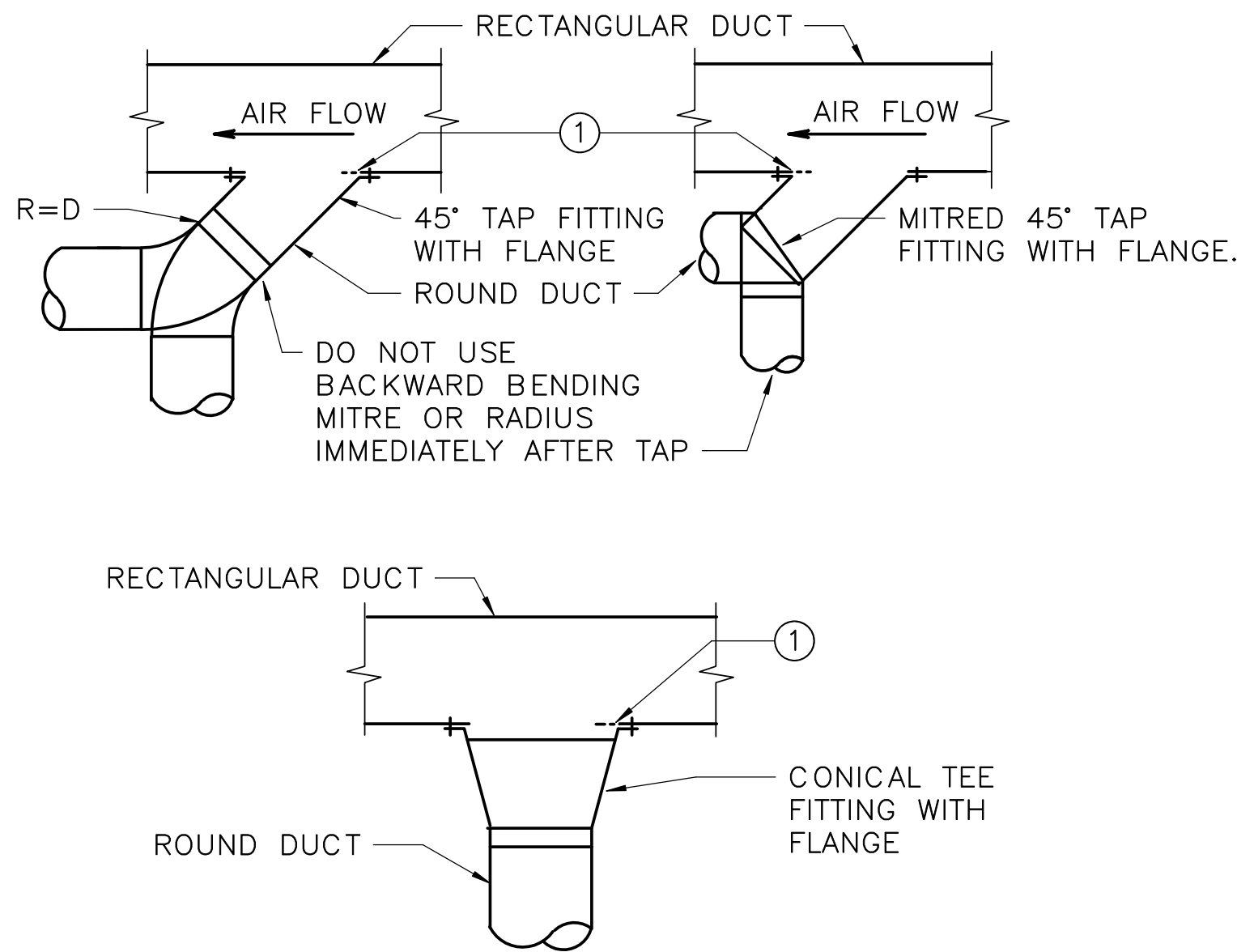
TAPOFF AND TRANSITION FROM SIDE OF DUCT



NOTES:

1. FOR AIR FLOW IN OPPOSITE DIRECTION, TRANSITION COLLAR SHALL OVERLAP EXTERIOR OR ROUND DUCT.

RECTANGULAR TO ROUND DUCT TRANSITION



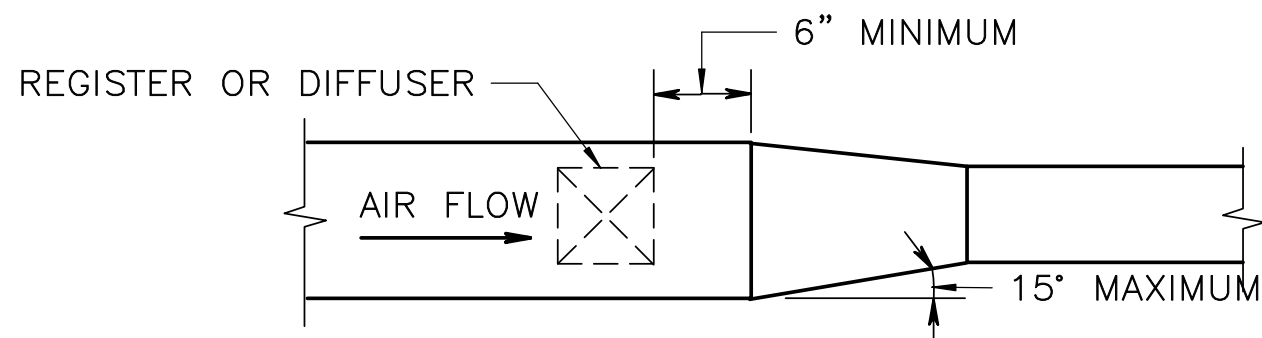
NOTES:

1. DO NOT USE 45° TAP FITTINGS EXCEPT WHERE TIGHT CONDITION PREVENTS USE OF OTHER FITTINGS INDICATED.

SPECIAL NOTES:

- 1 CUT HOLE IN RECTANGULAR DUCT LARGE ENOUGH SO THAT ROUGH METAL EDGE DOES NOT PROJECT INTO AIR STREAM.

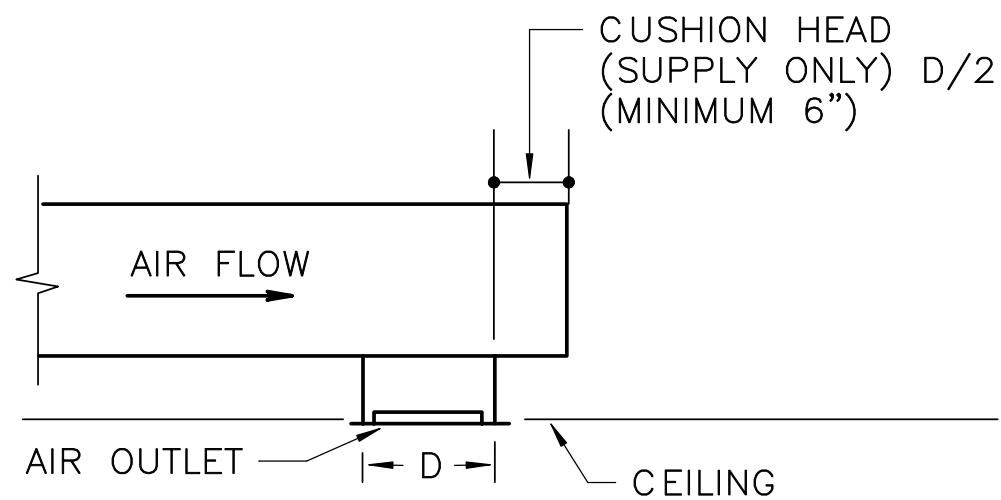
TAPOFF FROM RECTANGULAR DUCT TO ROUND DUCT



NOTES:

1. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

DIFFUSER OR REGISTER TAPOFF AND TRANSITION



NOTES:

1. AIR FLOW IS REVERSE FOR RETURN AND EXHAUST.

OUTLET LOCATED AT END OF RUN

ISSUED FOR BID
A/E FIRM - P15PC00037

PRIME/ARCH:
GWMO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
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TOWSON, MD

LANDSCAPE:
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TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

M5.1

TITLE OF SHEET

MECHANICAL DETAILS

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

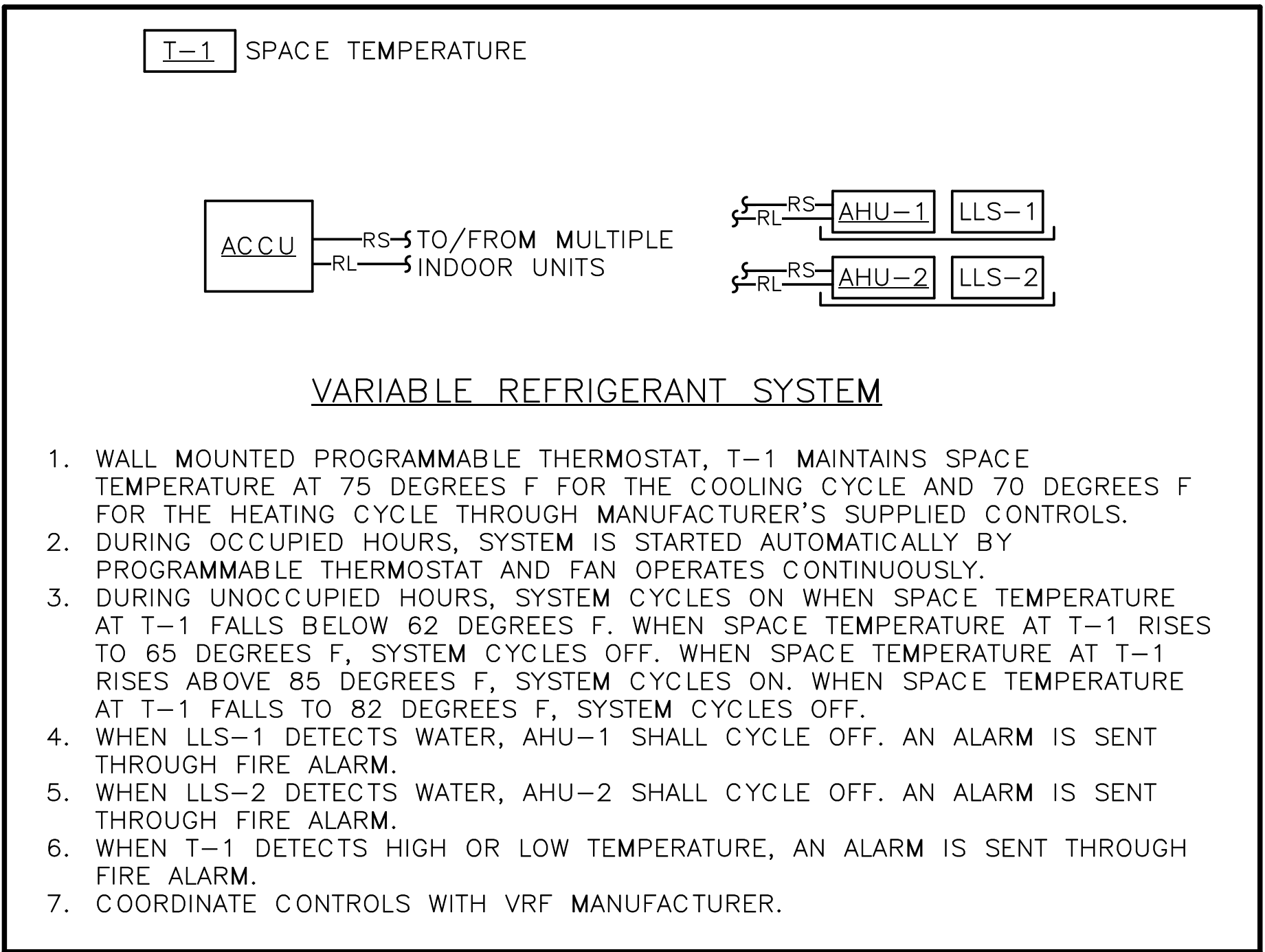
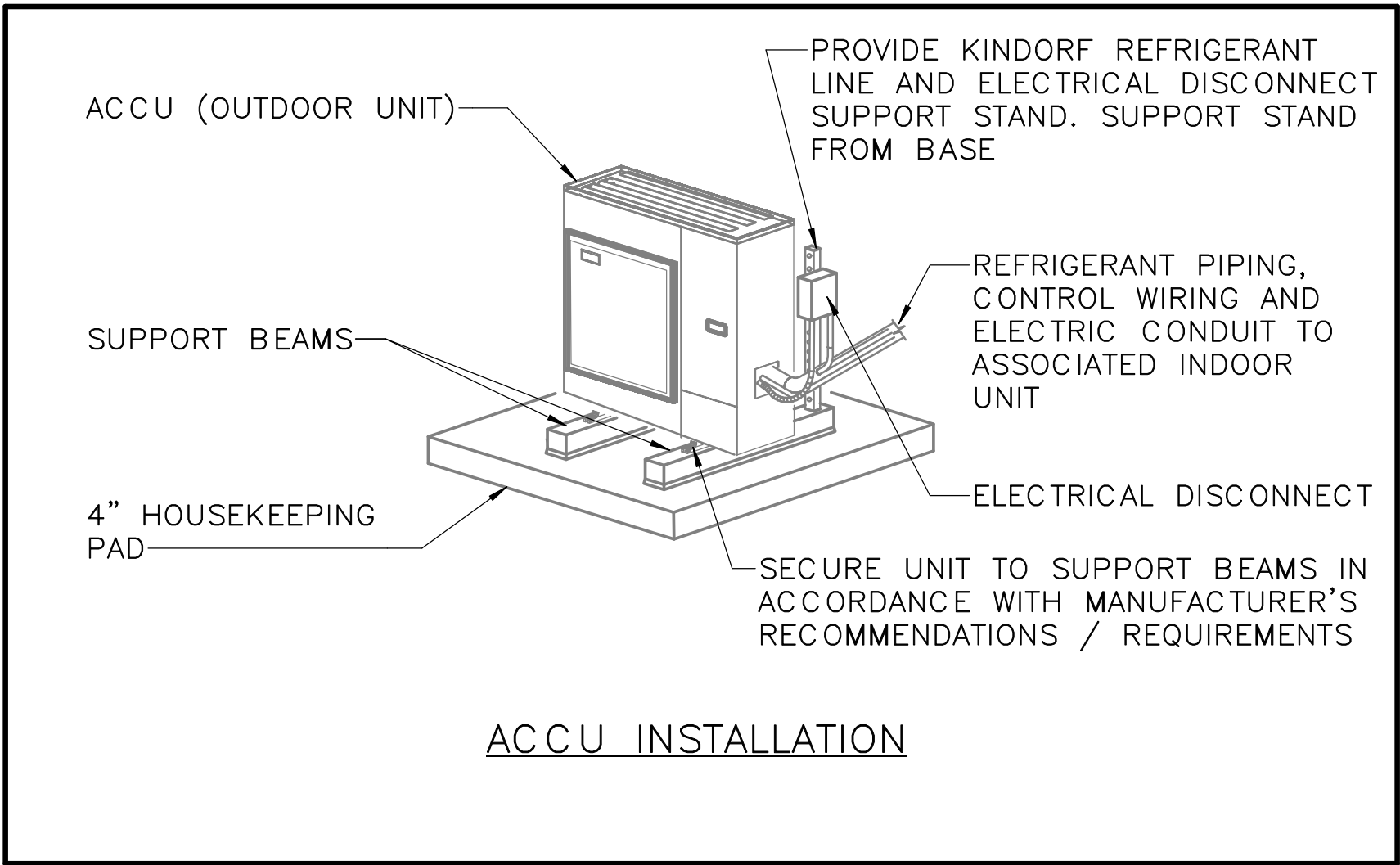
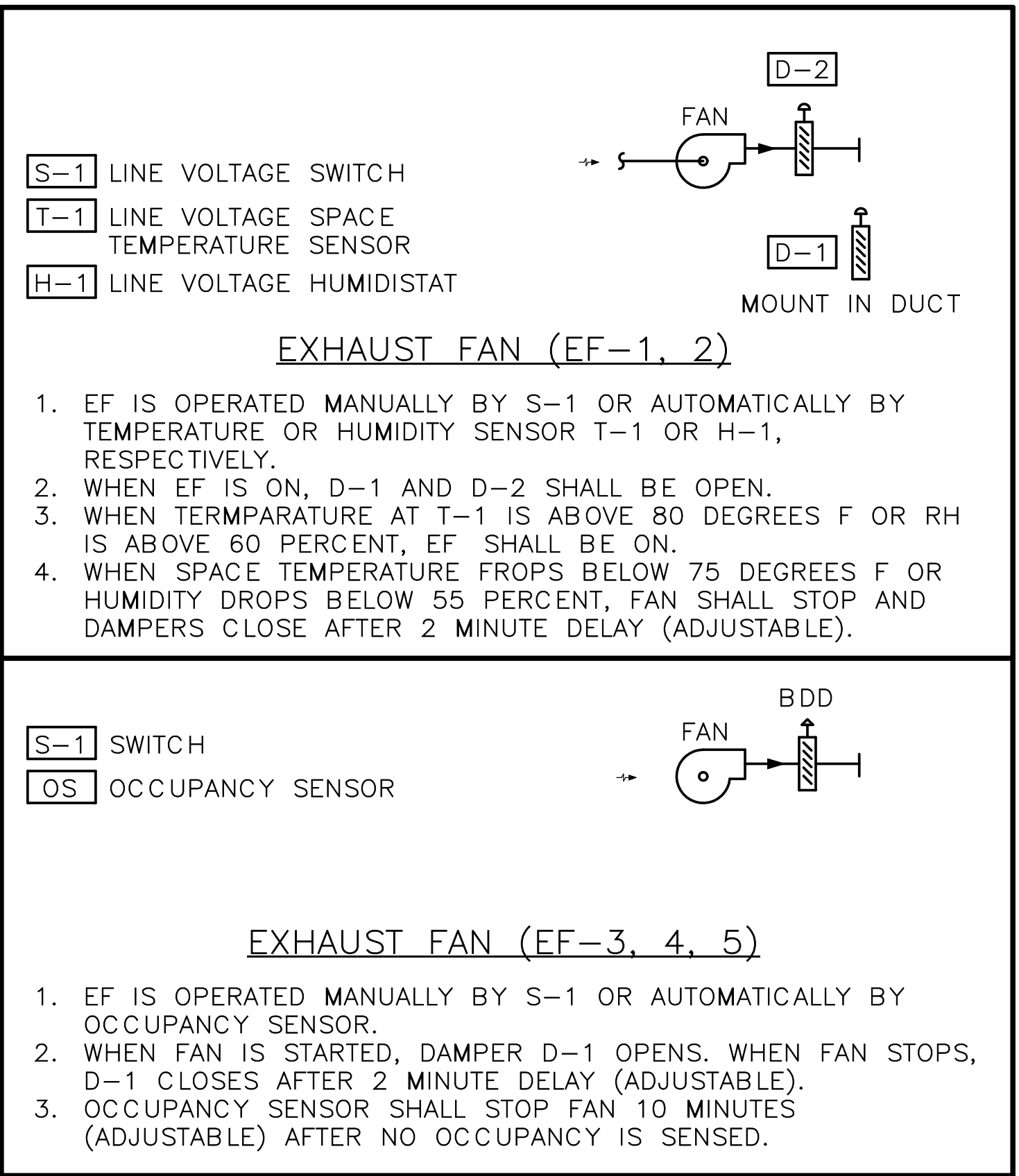
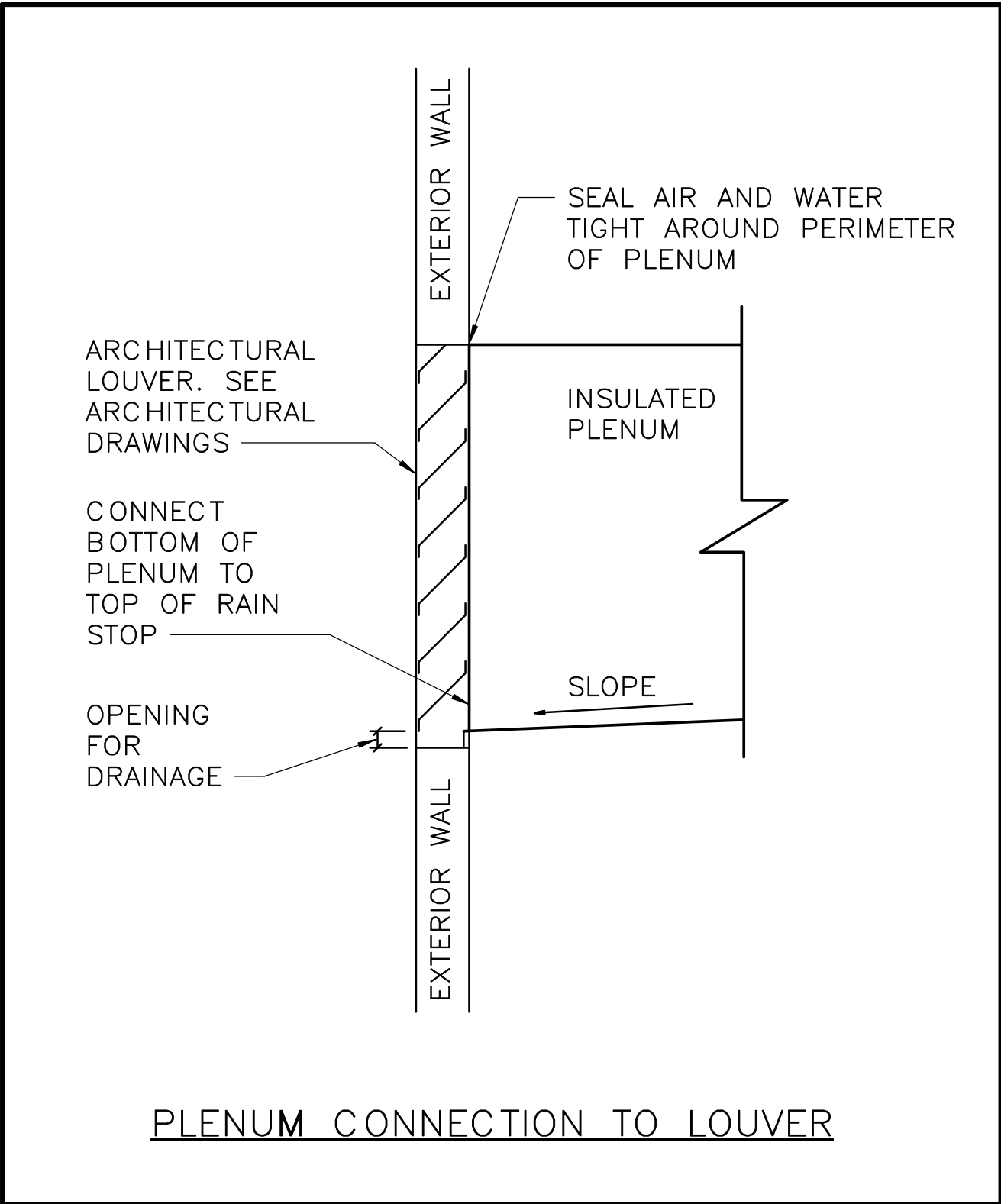
178321

PMIS/PKG NO.

257363

SHEET

51 OF 95



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWMO, INC.
BALTIMORE, MD

CIVIL:
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FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

M6.1

TITLE OF SHEET

AUTOMATIC
TEMPERATURE
CONTROLS AND DETAILS

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

PMIS/PKG NO.

257363

SHEET

52 of 95

GENERAL NOTES: (APPLICABLE TO ALL SCHEDULES)

1. UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.

2. UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.

3. TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.

4. AIR PRESSURE VALUES ARE LISTED IN INCHES OF WATER COLUMN.

FANS								
UNIT SYMBOL	TYPE	LOCATION	SERVICE	CFM	CLASS	TSP	MOTOR HP	NOTES
EF-1	P	001 CELLAR	EXHAUST	500	I	0.5	1/4	
EF-2	P	ATTIC	EXHAUST	500	I	0.5	1/4	
EF-3	L	ATTIC	EXHAUST	90	I	0.7	80 WATTS	
EF-4	L	ATTIC	EXHAUST	90	I	0.7	80 WATTS	
EF-5	P	001 CELLAR	EXHAUST	75	I	0.6	1/4	

SPLIT SYSTEM HEAT PUMPS																	
UNIT NO	ASSOCIATED ACCU	LOCATION	FAN			OA CFM	COOLING CAPACITY							HEATING CAPACITY			NOTES
			CFM	HP	ESP		TOTAL MBH	SENS MBH	EAT DB	EAT WB	EER	CONDENSER EAT	REVERSE CYCLE MBH	SUPPLEMENTAL KW	CONDENSER EAT		
AHU-1	ACCU-1	001 CELLAR	975	0.75	0.9	140	28.0	22.3	78.2	65.4	11.6	95	24.8	0	0		
AHU-2	ACCU-2	301 ATTIC	1,325	0.75	0.9	0	29.8	29.1	75.0	62.5	9.5	95	17.5	0	0		

ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:
GPZ

CADD:
GPZ

TECH. REVIEW:
SRH

DATE:
02/28/2022

SUB SHEET NO.

M7.1

TITLE OF SHEET

MECHANICAL SCHEDULES

GETTYSBURG NATIONAL MILITARY PARK


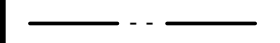
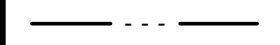

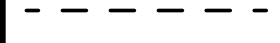

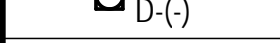
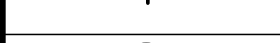
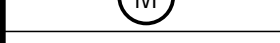
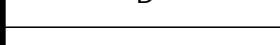
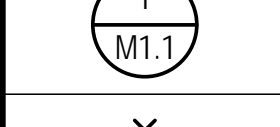

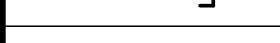
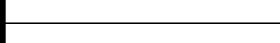
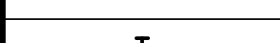

DRAWING NO.
305

178321

PMIS/PKG NO.
257363

SHEET
53 OF 95

PLUMBING ABBREVIATIONS	
AFF APPROX	ABOVE FINISHED FLOOR APPROXIMATE
BFP BLDG	BACKFLOW PREVENTER BUILDING
CO COND	CLEANOUT/CONTRACT OFFICER CONDENSATE
CP	CONDENSATE PUMP
CW	COLD WATER
CX	CONNECT TO EXISTING
D DEG	DEEP/DEPTH/DIAMETER/DRAIN/DROP DEGREES
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EFT	ENTERING FLUID TEMPERATURE
EF	EXHAUST FAN
EL	ELEVATION
ELEV	ELEVATION/ELEVATOR
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FAHRENHEIT
FD	FLOOR DRAIN
FPD	FLUID PRESSURE DROP
FT	FEET/FOOT
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT/HIGH
HP	HORSEPOWER
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IN	INCH/INCHES
INV	INVERT
KW	KILOWATT
L	LENGTH
LAV	LAVATORY
LB	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NO	NORMALLY OPEN/NUMBER
NTS	NOT TO SCALE
P	PLUMBING/PLUMBING FIXTURE TYPE
PD	PRESSURE DROP/PUMP DISCHARGE/PLUMBING DEMOLITION
PRV	PRESSURE REDUCING VALVE
PSI	PRESSURE – POUNDS PER SQUARE INCH
PSIG	PRESSURE – POUNDS PER SQUARE INCH, GAGE
R	RADIUS
RECIRC	RECIRCULATION
RPM	REVOLUTIONS PER MINUTE
RV	RELIEF VALVE
RX	REMOVE EXISTING
S	SANITARY
SAN	SANITARY
SH	SHOWER
T	TEMPERATURE SENSOR
TEMP	TEMPERATURE
TYP	TYPICAL
UR	URINAL
V	VALVE/VENT/VOLTS
VTR	VENT THROUGH ROOF
W	WIDTH
W/	WITH
WC	WATER CLOSET

PLUMBING LEGEND	
(APPLICABLE TO ALL PLUMBING DRAWINGS)	
SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	SANITARY
	VENT
	DOMESTIC WATER SERVICE REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	DRAIN (ALL TYPES)
	WALL HYDRANT
	WATER METER
	CONDENSATE DRAIN
	PLAN/ SECTION DESIGNATION TOP - PLAN/ SECTION REFERENCE, BOTTOM - REFERENCED DRAWING
	ANCHOR
	CAP (PIPE OR DUCT)
	UNION
	CHECK VALVE
	SHUTOFF VALVE

GENERAL PLUMBING NOTES	
(APPLICABLE TO ALL PLUMBING DRAWINGS)	
<p>1. INFORMATION SHOWN ON THE PLUMBING DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO DEMILITION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.</p> <p>2. REMOVE ALL EXISTING PIPING, EQUIPMENT, AND MATERIALS NOT REQUIRED FOR RE–USE OR RE–INSTALLATION (SHOWN OR OTHERWISE). ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE COR, OR ARE INDICATED TO REMAIN THE PROPERTY OF THE COR SHALL BE DELIVERED BY THE COR’S CONTRACTOR WHERE DIRECTED BY THE COR’S CONSTRUCTION MANAGER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.</p> <p>3. DISCONNECT EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) AND REMOVE PIPING BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC. CAP, PLUG, OR SEAL EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE. NO EXISTING PIPING SHALL BE LEFT UNSEALED.</p> <p>4. EXISTING MECHANICAL PIPING, EQUIPMENT, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE RE–INSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE COR’S CONSTRUCTION MANAGER AND AT NO ADDITIONAL CONTRACT COST.</p> <p>5. REMOVE ALL ACCESSORIES, CONTROLS, ENCLOSURES, SUPPORTS, HANGERS, PADS, ETC. ASSOCIATED WITH ALL EQUIPMENT SHOWN TO BE DEMOLISHED. REPAIR AND PAINT DAMAGED SURFACES AND ALL SURFACES BEHIND ALL EQUIPMENT SHOWN TO BE DEMOLISHED TO MATCH EXISTING ADJACENT SURFACES.</p> <p>6. COORDINATE ALL PLUMBING WORK WITH MECHANICAL WORK, ELECTRICAL WORK, AND WORK OF OTHER TRADES.</p> <p>7. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p> <p>8. RUN ALL SOIL, WASTE AND DRAIN PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.</p> <p>9. ELEVATIONS NOTED ARE TO CENTERLINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES.</p> <p>10. INSTALL PIPING SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE.</p> <p>11. UNLESS OTHERWISE NOTED, ROUTE ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.</p> <p>12. MAINTAIN MINIMUM 6’–8” CLEARANCE TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL ROOMS.</p> <p>13. CERTAIN ITEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.</p> <p>14. WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRES CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., CHECK FOR THE PRESENCE OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION. EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE SERVICES OR INJURY TO PERSONNEL DUE TO CONTACT WITH SAME. TEMPORARILY DISCONNECT SERVICES DURING THE CUTTING OPERATION. SCHEDULE SERVICE OUTAGES IN ADVANCE WITH THE OWNER.</p> <p>15. FLOW SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATION CONCEPTS AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT. VALVES, PRESSURE GAUGES, ETC. ARE INDICATED FOR THIS PURPOSE. PROVIDE ADDITIONAL VALVES, PRESSURE GAUGES, ETC. AS SHOWN ON VARIOUS EQUIPMENT DETAILS. SEE PLANS AND DETAILS FOR PIPE SIZES NOT INDICATED ON FLOW SCHEDULES AND RISER DIAGRAMS.</p> <p>16. CONTRACTOR SHALL BE RESPONSIBLE FOR RESEARCHING ALL SYSTEMS THAT A PARTICULAR OUTAGE WILL AFFECT AS WELL AS LOCATING ALL SHUTOFF POINTS. INCLUDE THIS INFORMATION IN THE OUTAGE PLAN AND SUBMIT TO THE COR FOR APPROVAL.</p> <p>17. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER SYSTEMS IN BRANCH LINES SERVING TWO OR MORE FIXTURES.</p> <p>18. PROVIDE WATER HAMMER ARRESTORS AT ALL FAST–CLOSING VALVES. ARRESTORS SHALL CONFORM TO ASSE 1010 AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS.</p> <p>19. UNLESS OTHERWISE NOTED, WHERE HOT AND COLD WATER PIPING DROPS INTO PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.</p> <p>20. THE MINIMUM SIZE OF WATER SUPPLY MAINS, RISERS, OR BRANCH PIPES SERVING TWO OR MORE PLUMBING FIXTURES, APPLIANCES, OR OUTLET CONNECTIONS SHALL BE 3/4”.</p> <p>21. USE OF COMBINATION WYE OR CROSS–TEE FITTINGS IN THE PLUMBING SANITARY SYSTEM IS NOT PERMITTED.</p> <p>22. REFER TO SPECIFICATION SECTION 232000 FOR PLUMBING SYSTEM PIPING REQUIREMENTS. PVC PIPE IS NOT PERMITTED IN CEILING RETURN AIR PLENUM APPLICATIONS.</p> <p>23. ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.</p> <p>24. MAINTAIN MINIMUM OF 3’–0” COVER OVER UNDERGROUND WATER MAIN AND MINIMUM OF 2’–6” COVER OVER UNDERGROUND SEWERS AND DRAINS.</p>	

ISSUED FOR BID				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
A/E FIRM -- P15PC00037				GPZ			
PRIME/ARCH: GWWO, INC. BALTIMORE, MD				CADD: GPZ			
CIVIL: CS DAVIDSON GETTYSBURG, PA				TECH. REVIEW: SRH			
MECHANICAL: HENRY ADAMS TOWSON, MD				DATE: 02/28/2022	P0.0	PLUMBING COVER SHEET	305
PLUMBING: HENRY ADAMS TOWSON, MD							178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA							PMIS/PKG NO. 257363
STRUCTURAL: SGH WASHINGTON, DC						GETTYSBURG NATIONAL MILITARY PARK	SHEET
ELECTRICAL: HENRY ADAMS TOWSON, MD							54 of 95
FIRE PROTECTION: HENRY ADAMS TOWSON, MD							

2/4/2022 10:17:40 AM C:\Revit Projects 2021\14-N009-ZI Mech Central (2021)_zawodniak\VP7F.rvt

- DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———

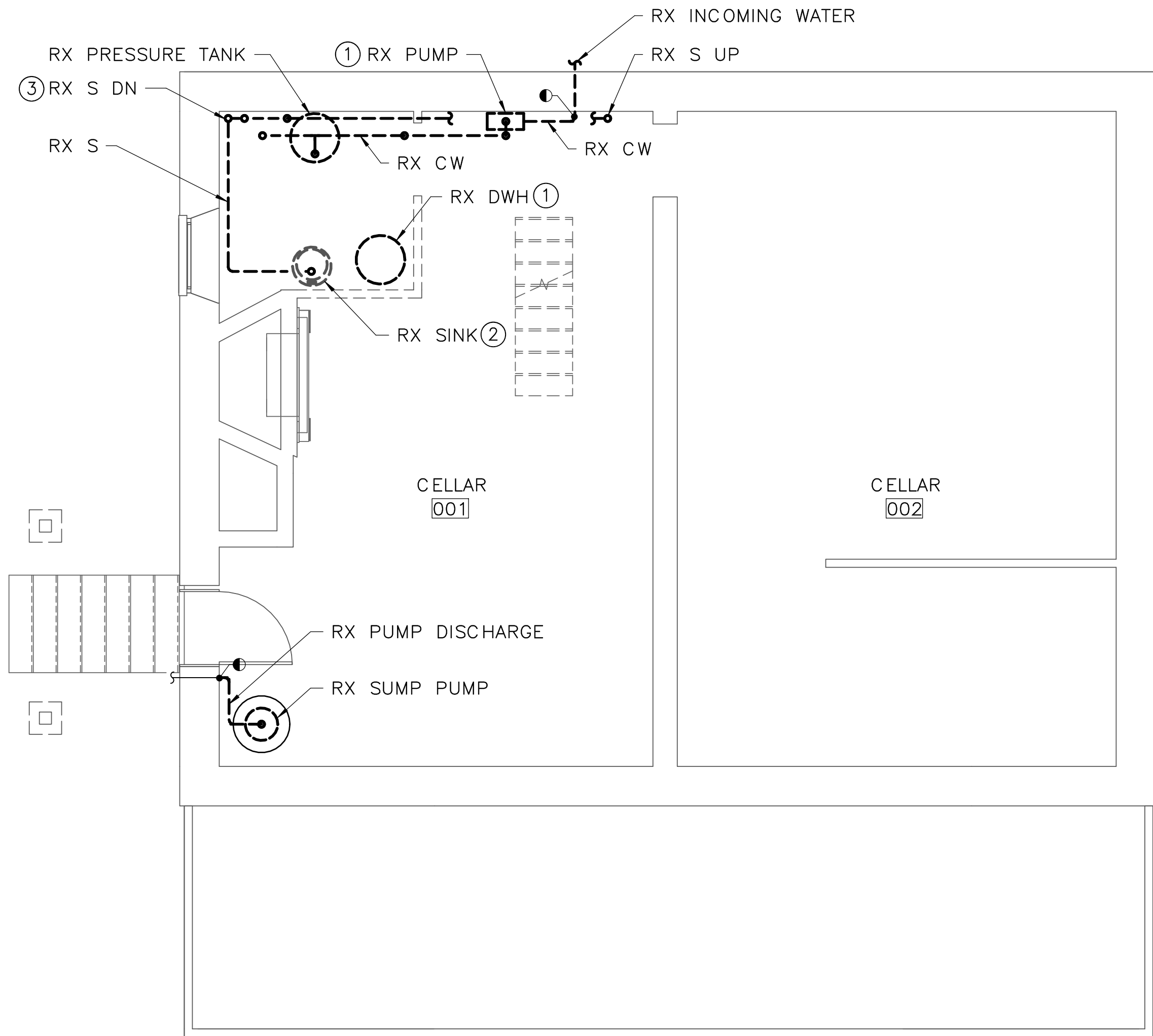
2. DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - -

3. CONTRACTOR SHALL IDENTIFY REMOVAL OF ALL PLUMBING PIPING AND EQUIPMENT AND REVIEW WITH COR BEFORE REMOVING. WORK REMOVED WITHOUT PRIOR CONFIRMATION THAT WAS NOT INTENDED TO BE REMOVED SHALL BE REPLACED IN SAME OR BETTER CONDITION AT CONTRACTOR'S COST.

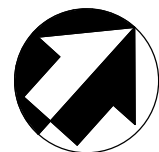
4. PATCH AND SEAL ALL EXISTING OPENINGS IN WALLS AND FLOORS WHERE DUCTWORK, PIPING, CONDUIT, ETC IS REMOVED.
- SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
- ① REMOVE ALL ASSOCIATED PIPING, WIRING, CONTROLS, ETC. BACK TO INSIDE OF CELLAR EXTERIOR WALL AND CAP.

② REMOVE ASSOCIATED CW, HW, SAN, AND VENT PIPES BACK TO INSIDE OF CELLAR EXTERIOR WALL AND CAP. VALVE ALL PRESSURE PIPING.

③ REMOVE SANITARY PIPE DOWN TO FLOOR AND CAP

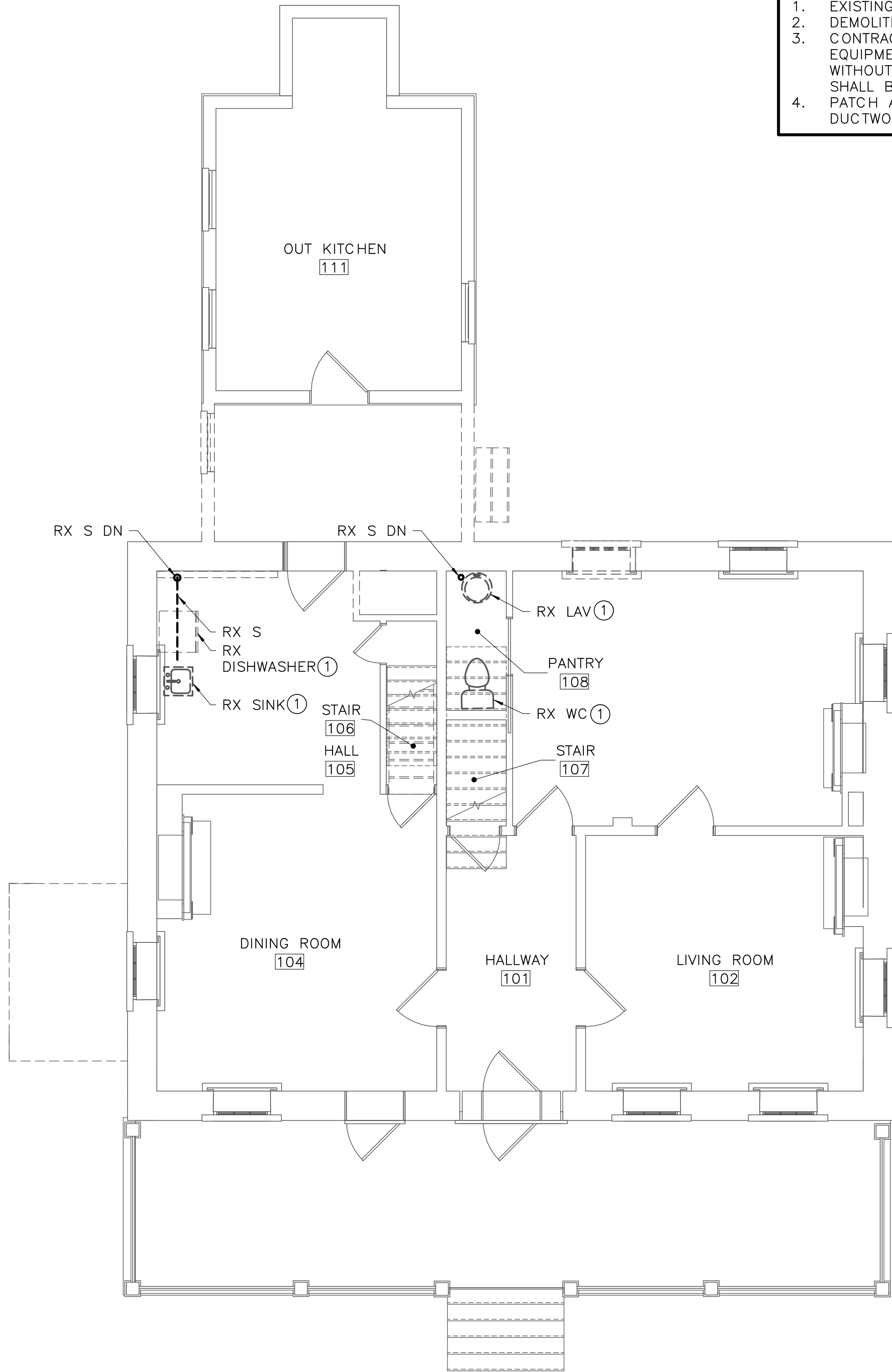


1 CELLAR — PLUMBING — DEMOLITION
PD1.1 SCALE (B)



ISSUED FOR BID A/E FIRM — P15PC00037				DESIGNED:	SUB SHEET NO. PD1.1	TITLE OF SHEET CELLAR — DEMOLITION — PLUMBING GETTYSBURG NATIONAL MILITARY PARK	DRAWING NO. 305 178321
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 257363
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SRH			SHEET
				DATE: 02/28/2022			55 OF 95

2/4/2022 10:17:41 AM C:\Revit Projects 2021\14-N009-ZI Mech Central (2021)_zawodniak\VP7F.rvt



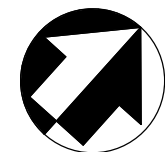
1 FIRST FLOOR — PLUMBING — DEMOLITION
PD1.2 SCALE (B)

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- EXISTING SHOWN WITH LIGHT WEIGHT LINE, —
- DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - -
- CONTRACTOR SHALL IDENTIFY REMOVAL OF ALL PLUMBING PIPING AND EQUIPMENT AND REVIEW WITH COR BEFORE REMOVING. WORK REMOVED WITHOUT PRIOR CONFIRMATION THAT WAS NOT INTENDED TO BE REMOVED SHALL BE REPLACED IN SAME OR BETTER CONDITION AT CONTRACTOR'S COST.
- PATCH AND SEAL ALL EXISTING OPENINGS IN WALLS AND FLOORS WHERE DUCTWORK, PIPING, CONDUIT, ETC IS REMOVED.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- 1 REMOVE ASSOCIATED CW, HW, SAN, AND VENT PIPES BACK TO INSIDE OF CELLAR EXTERIOR WALL AND CAP. VALVE ALL PRESSURE PIPING.



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

PD1.2

TITLE OF SHEET

FIRST FLOOR —
DEMOLITION —
PLUMBING

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305
178321

PMIS/PKG NO.
257363

SHEET

56 OF 95

- DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1.

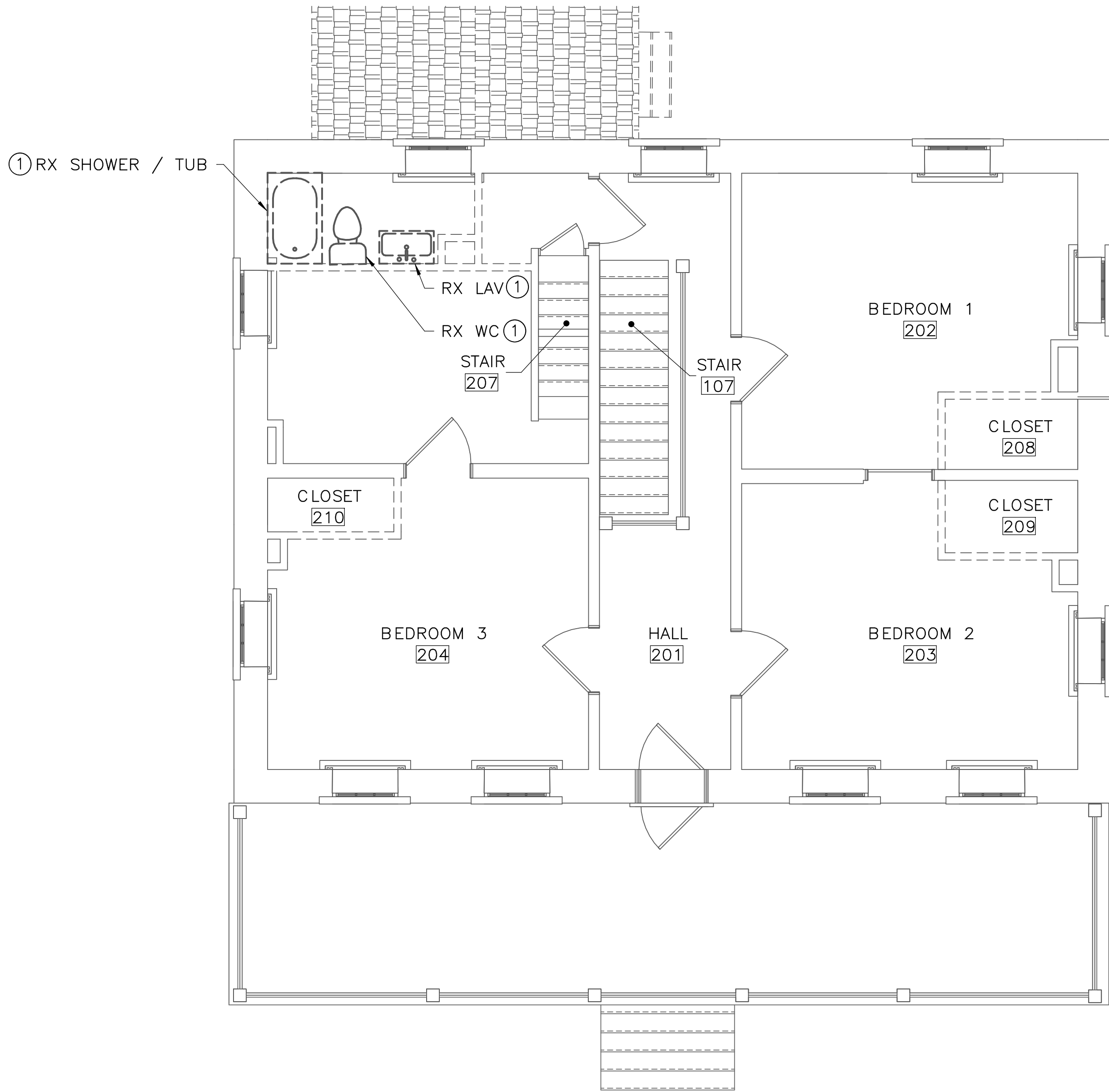
EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
2.

DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - -
3.

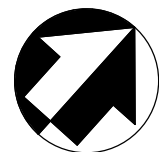
CONTRACTOR SHALL IDENTIFY REMOVAL OF ALL PLUMBING PIPING AND EQUIPMENT AND REVIEW WITH COR BEFORE REMOVING. WORK REMOVED WITHOUT PRIOR CONFIMATION THAT WAS NOT INTENDED TO BE REMOVED SHALL BE REPLACED IN SAME OR BETTER CONDITION AT CONTRACTOR'S COST.
4.

PATCH AND SEAL ALL EXISTING OPENINGS IN WALLS AND FLOORS WHERE DUCTWORK, PIPING, CONDUIT, ETC IS REMOVED.
- SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
- ①

REMOVE ASSOCIATED CW, HW, SAN, AND VENT PIPES BACK TO INSIDE OF CELLAR EXTERIOR WALL AND CAP. VALVE ALL PRESSURE PIPING.



1 SECOND FLOOR — PLUMBING — DEMOLITION
PD1.3 SCALE (B)

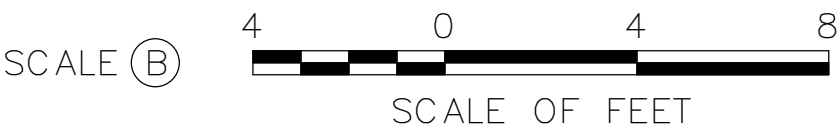
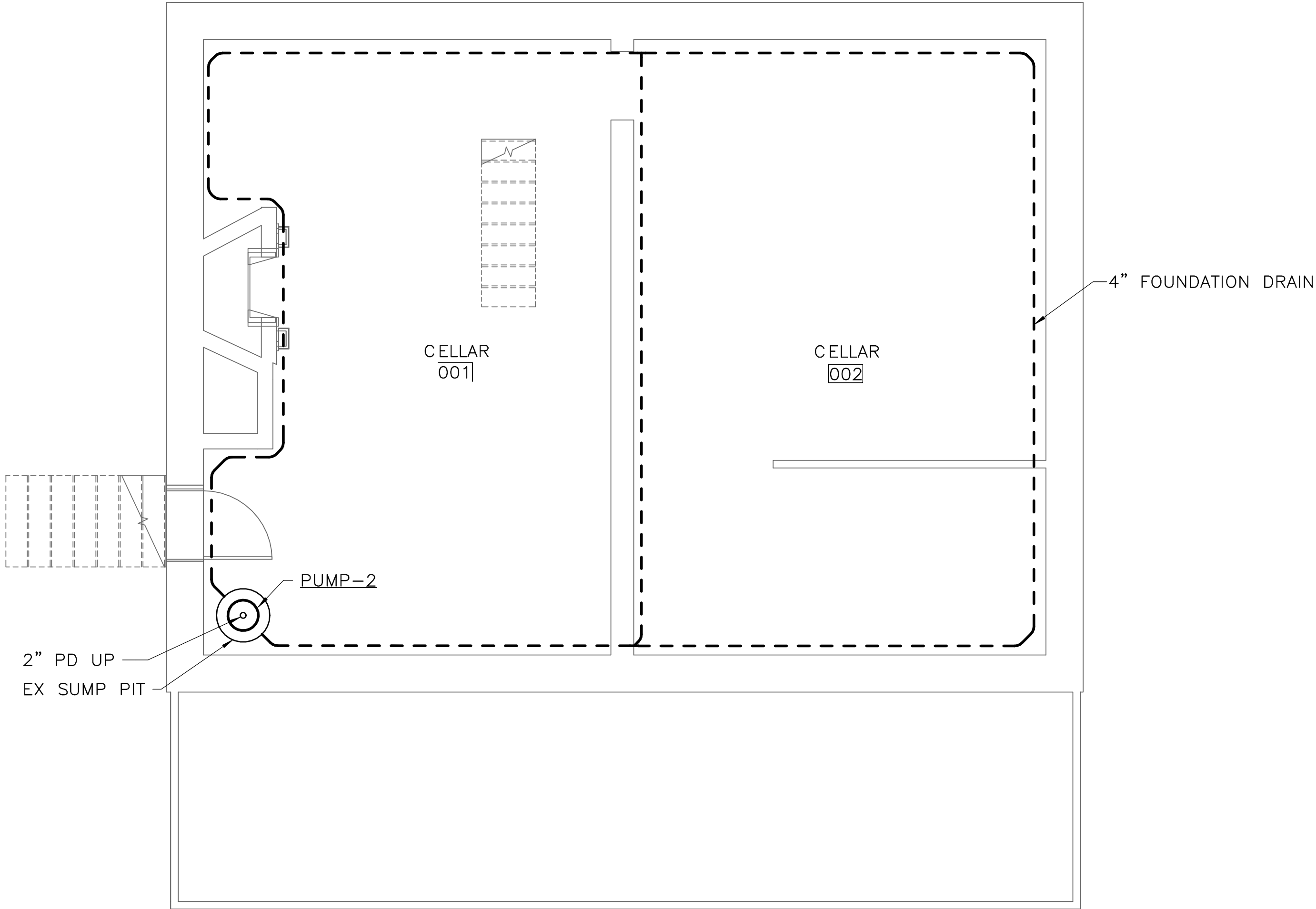


ISSUED FOR BID				DESIGNED:	SUB SHEET NO. PD1.3	TITLE OF SHEET SECOND FLOOR — DEMOLITION — PLUMBING	DRAWING NO. 305
A/E FIRM — P15PC00037				GPZ			
PRIME/ARCH: GWWO, INC. BALTIMORE, MD				CADD: GPZ			
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA				TECH. REVIEW: SRH			
CIVIL: CS DAVIDSON GETTYSBURG, PA				DATE: 02/28/2022		GETTYSBURG NATIONAL MILITARY PARK	PMIS/PKG NO. 257363
MECHANICAL: HENRY ADAMS TOWSON, MD							SHEET
PLUMBING: HENRY ADAMS TOWSON, MD							57 OF 95
STRUCTURAL: SGH WASHINGTON, DC							
ELECTRICAL: HENRY ADAMS TOWSON, MD							
FIRE PROTECTION: HENRY ADAMS TOWSON, MD							

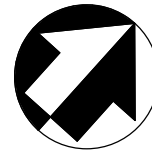
DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- 1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
- 2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———
- 3. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)



1 FOUNDATION — PLUMBING — NEW WORK
P0.1 SCALE (A)



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
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GETTYSBURG, PA

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HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

P0.1

TITLE OF SHEET
FOUNDATION — NEW
WORK — PLUMBING

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

PMIS/PKG NO.

257363

SHEET

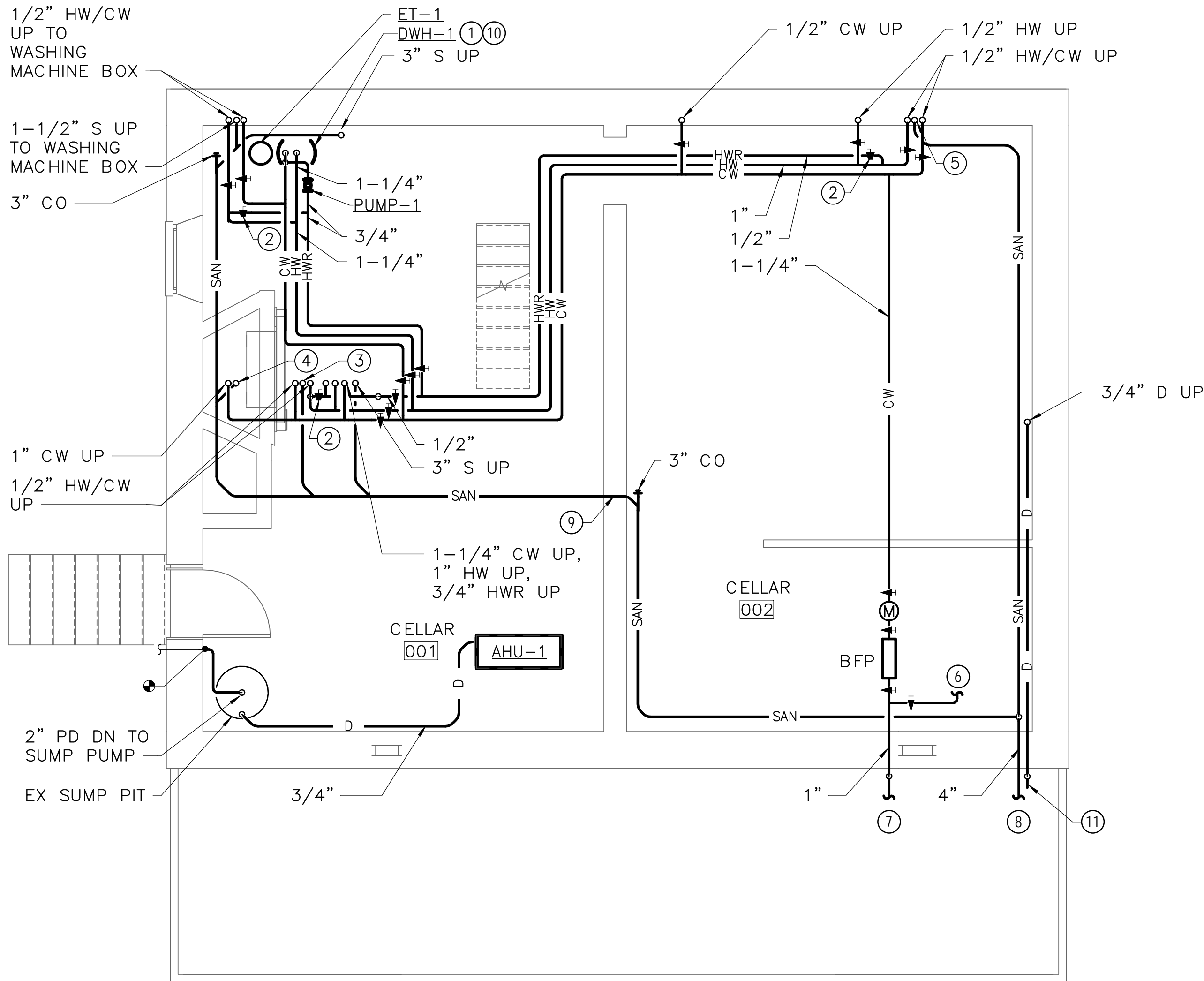
58 OF 95

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- EXISTING SHOWN WITH LIGHT WEIGHT LINE, —
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE, —
- ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.

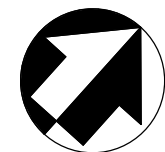
SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- MOUNT IN DRAIN PAN ON 4" HOUSEKEEPING PAD
- BALANCE TO 0.5 GPM
- 1-1/2" S UP TO LAV
- 3" S UP TO WC
- 1-1/2" S UP TO SINK
- SEE DRAWING F1.1 FOR CONTINUATION
- INCOMING 1" DOMESTIC WATER SERVICE. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 4" S. INV EL 486.0 +/- . SEE CIVIL DRAWINGS FOR CONTINUATION.
- ROUTE PIPE THROUGH NEW WALL PENETRATION
- SEE DOMESTIC WATER HEATER PIPING DETAIL ON P5.1 FOR MORE INFORMATION
- TERMINATE 3/4" D 1'-0" ABOVE GRADE ONTO SPLASH BLOCK BENEATH PORCH



1 CELLAR — PLUMBING — NEW WORK
P1.1 SCALE (B)

SCALE (B) 4 0 4 8
SCALE OF FEET



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

P1.1

TITLE OF SHEET

CELLAR — NEW WORK
— PLUMBING

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

PMIS/PKG NO.

257363

SHEET

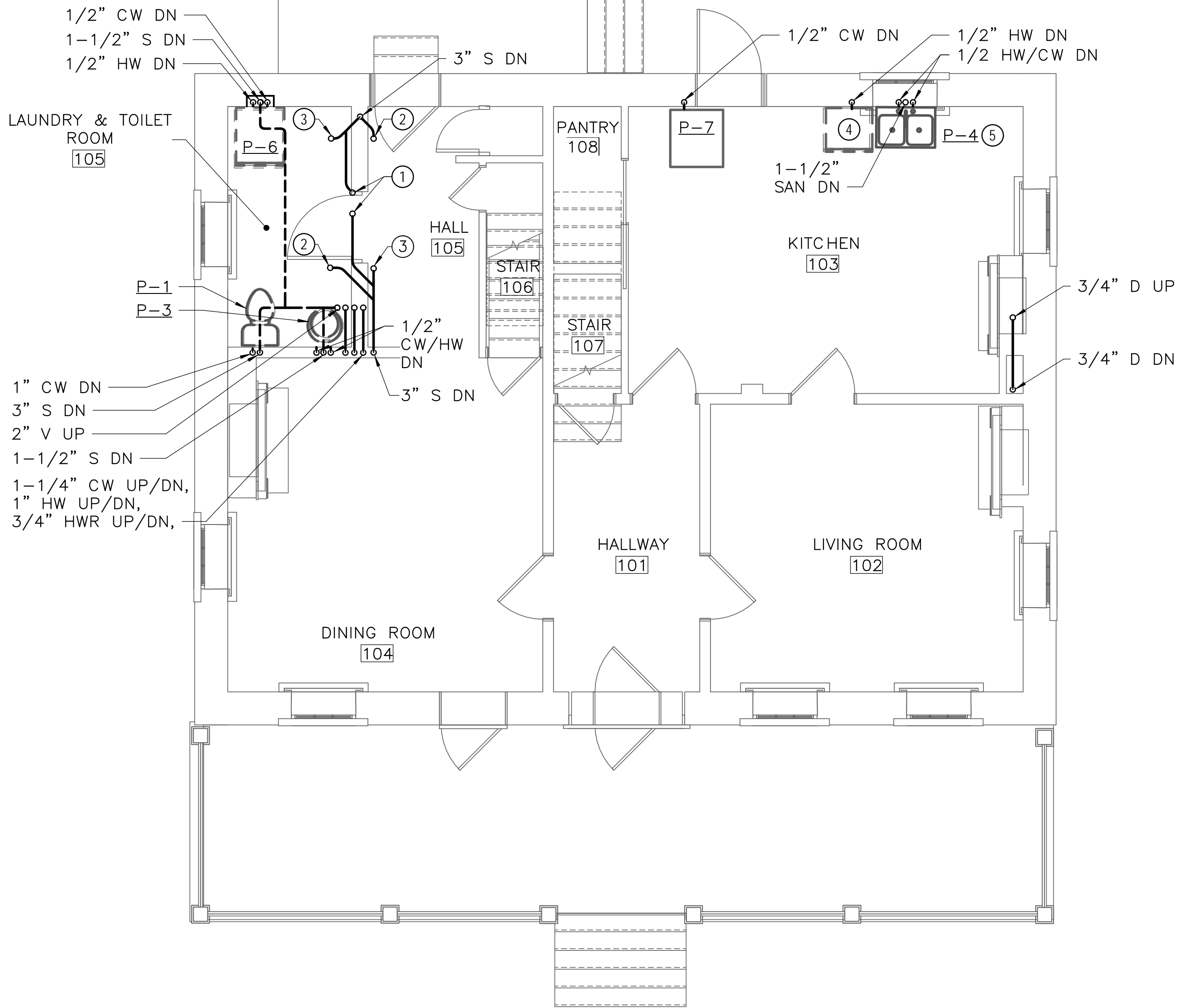
59 OF 95

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

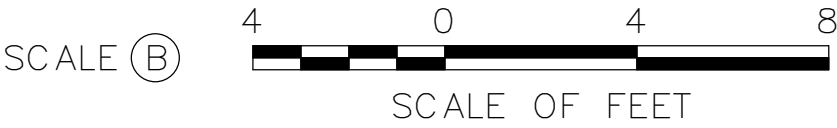
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———
- ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- 1-1/2" S UP TO LAV
- 3" S UP TO WC
- 2" S UP TO SH
- PROVIDE HW/SANITARY CONNECTIONS TO DISHWASHER AND GARBAGE DISPOSAL
- PROVIDE GARBAGE DISPOSAL



1 FIRST FLOOR — PLUMBING — NEW WORK
P1.2 SCALE (B)



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GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

P1.2

TITLE OF SHEET
FIRST FLOOR — NEW
WORK — PLUMBING

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

PMIS/PKG NO.

257363

SHEET

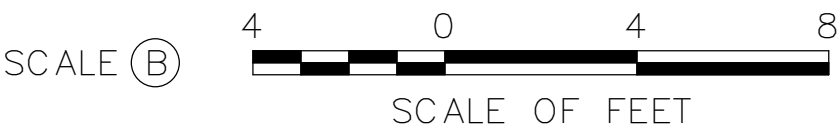
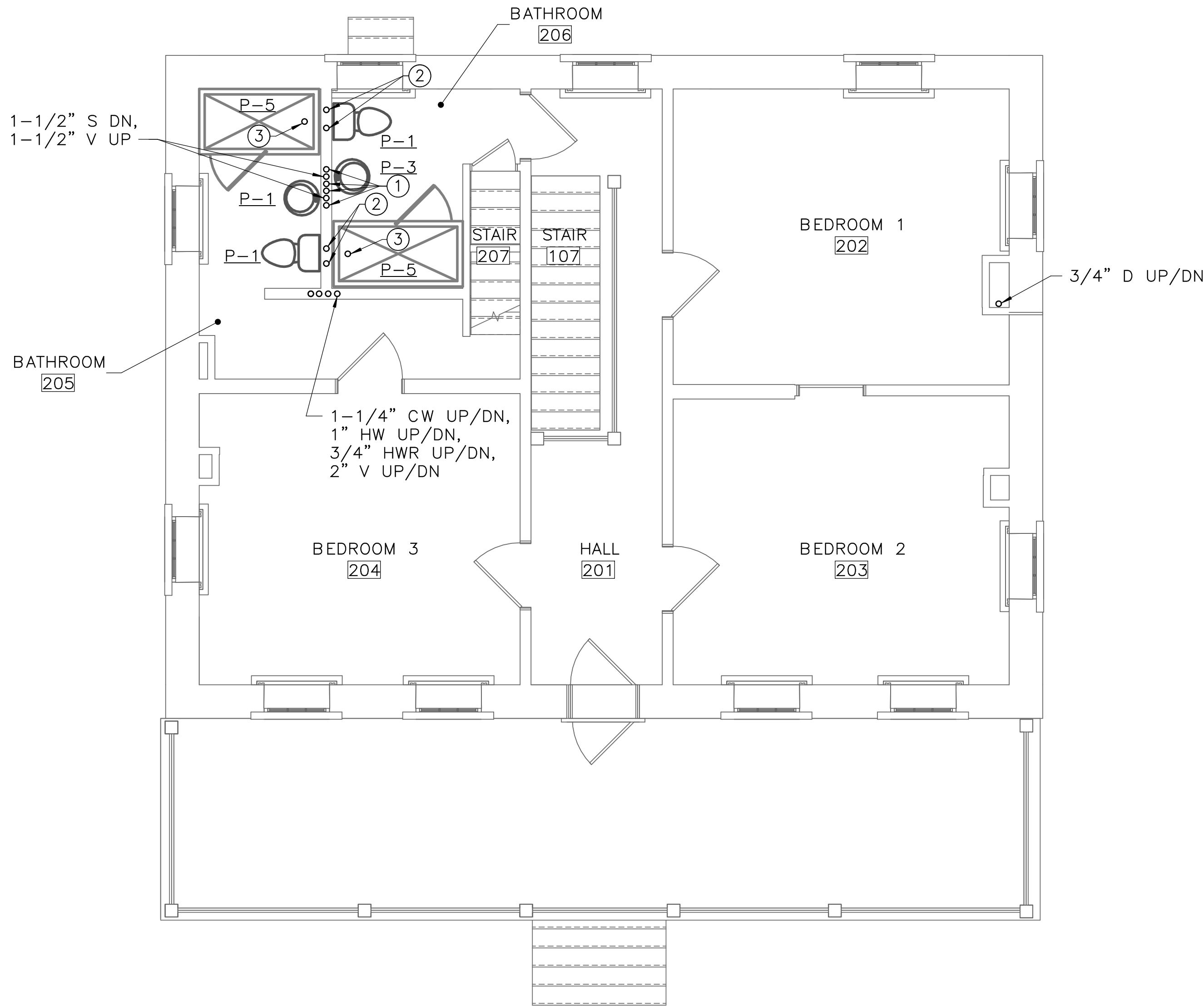
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

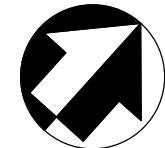
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, —
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE, —
- ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- 1/2" CW/HW UP
- 1" CW UP, 3/4" HW UP
- 2" S DN



1 SECOND FLOOR — PLUMBING — NEW WORK
P1.3 SCALE (B)



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A/E FIRM - P15PC00037

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GWWO, INC.
BALTIMORE, MD

CIVIL:
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GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

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DATE:

02/28/2022

SUB SHEET NO.

P1.3

TITLE OF SHEET

SECOND FLOOR — NEW
WORK — PLUMBING

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

PMIS/PKG NO.

257363

SHEET

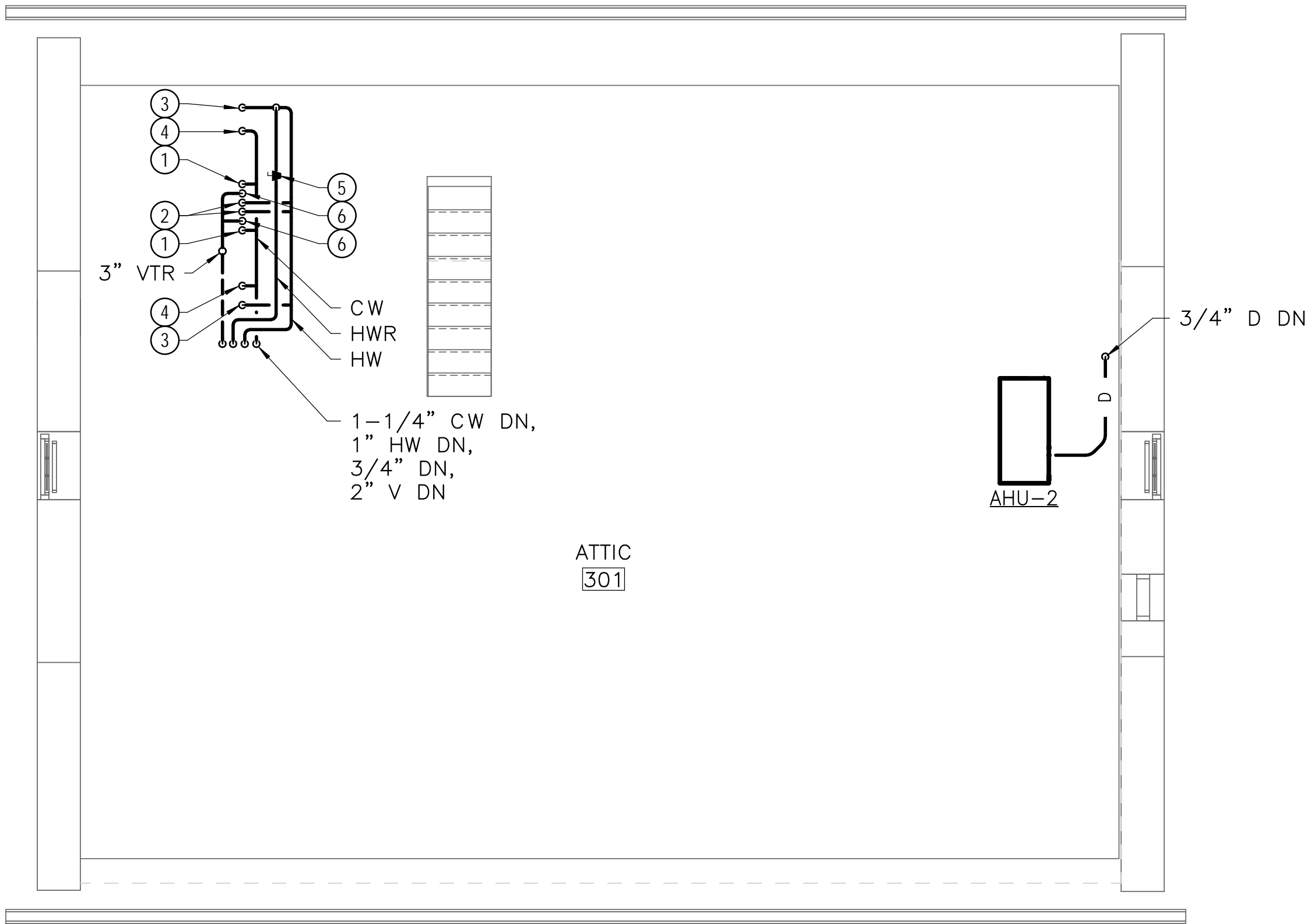
61 OF 95

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

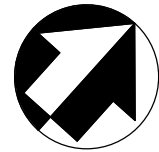
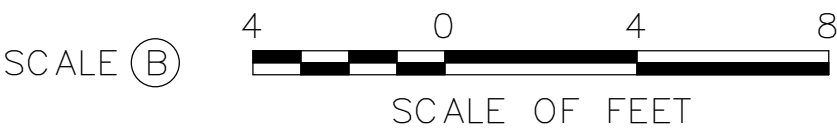
- 1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
- 2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———
- 3. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- ① 1/2" CW DN
- ② 1/2" HW DN
- ③ 3/4" HW DN
- ④ 1" CW DN
- ⑤ BALANCE TO 0.5 GPM
- ⑥ 2" V DN



1 ATTIC — PLUMBING — NEW WORK
P1.4 SCALE (B)



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A/E FIRM - P15PC00037

PRIME/ARCH:
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BALTIMORE, MD

CIVIL:
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GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
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WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

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DATE:

02/28/2022

SUB SHEET NO.

P1.4

TITLE OF SHEET
ATTIC — NEW WORK —
PLUMBING

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

PMIS/PKG NO.

257363

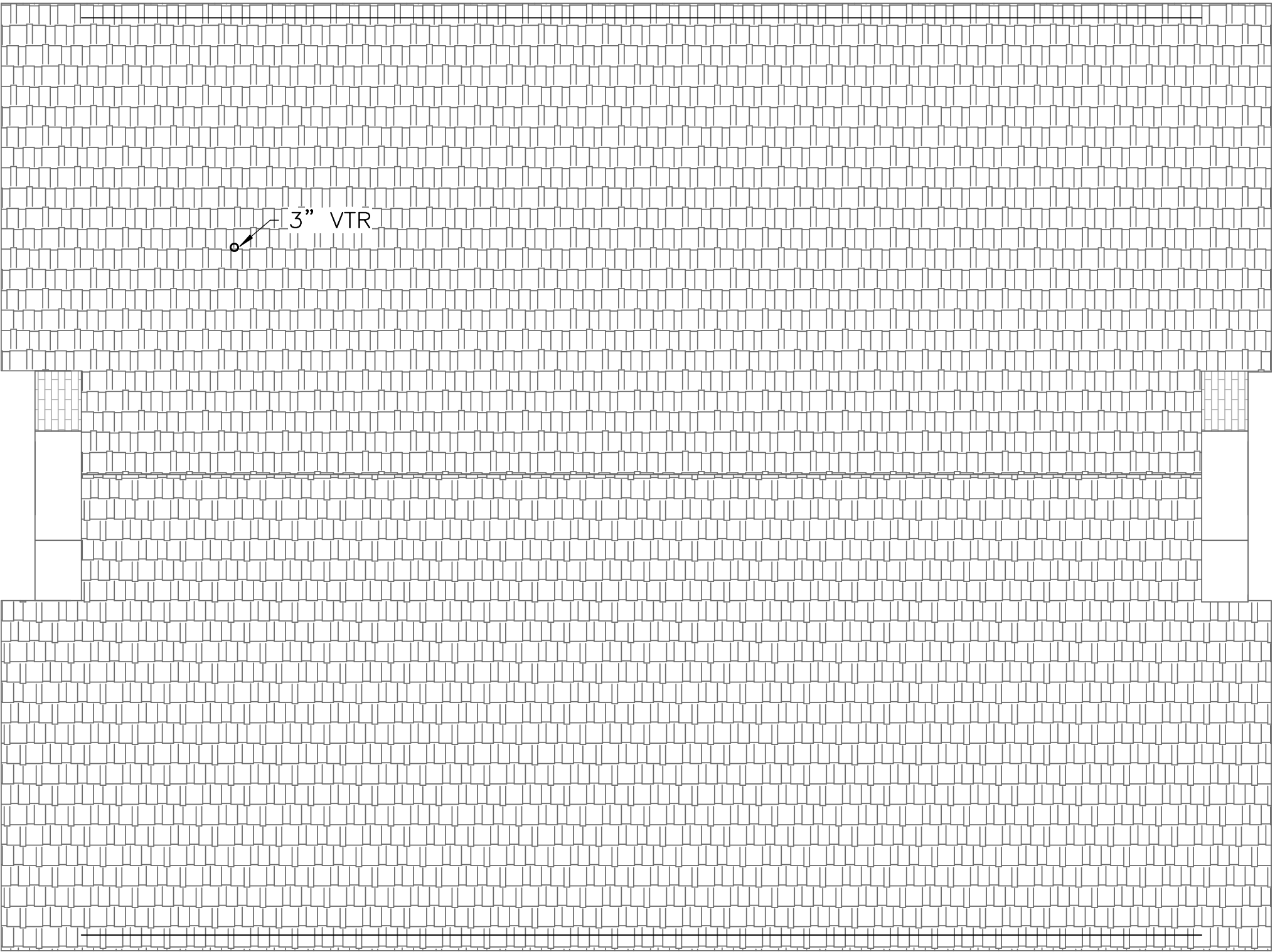
SHEET

62 OF 95

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE,
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE,

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

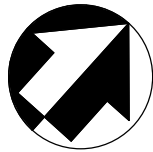
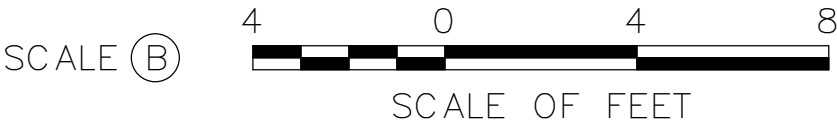


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P1.5

ROOF — PLUMBING — NEW WORK

SCALE (B)



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PRIME/ARCH:
GWWO, INC.
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GETTYSBURG, PA

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HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
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WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

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CADD:

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TECH. REVIEW:

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DATE:

02/28/2022

SUB SHEET NO.

P1.5

TITLE OF SHEET

ROOF — NEW WORK —
PLUMBING

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

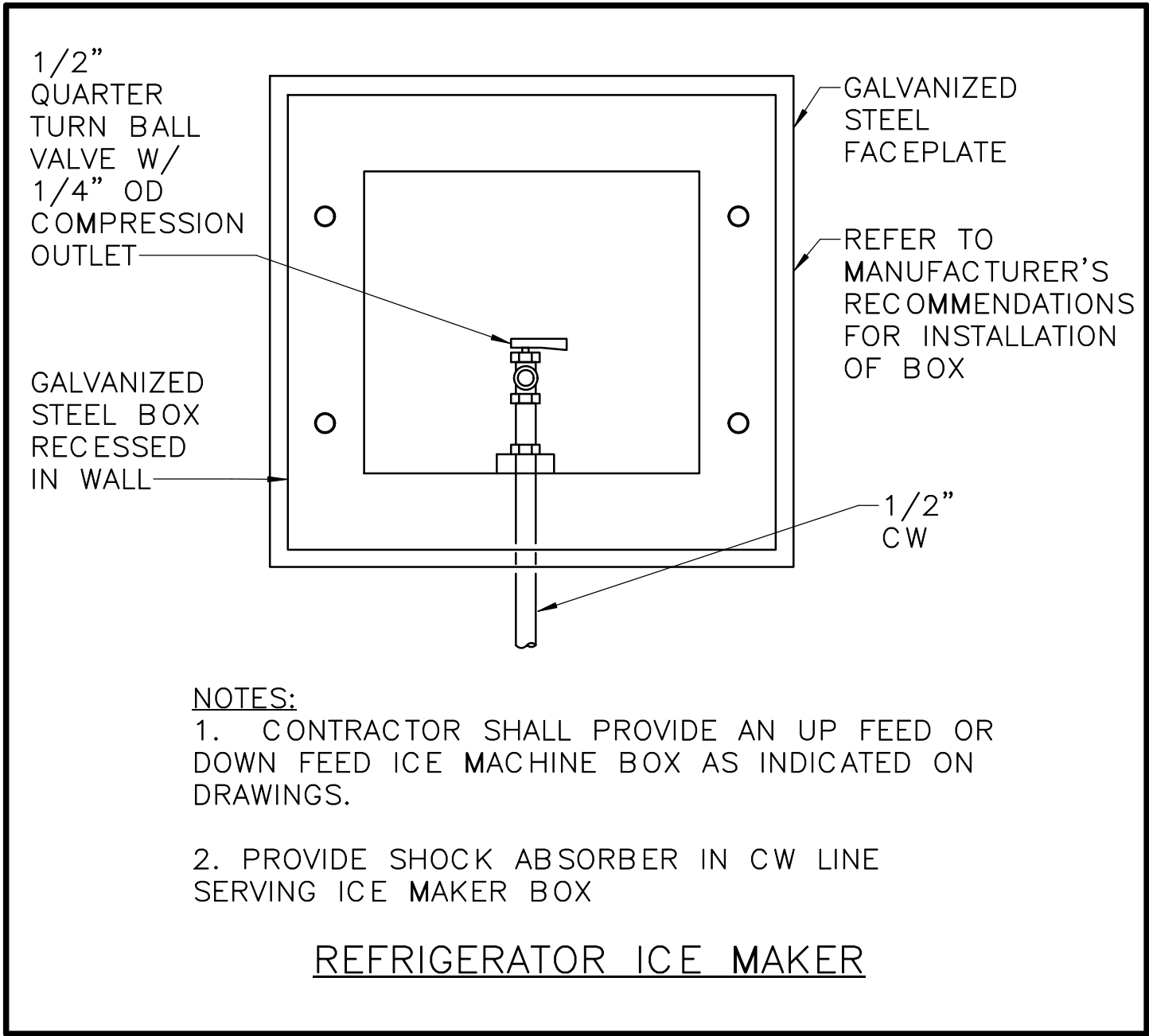
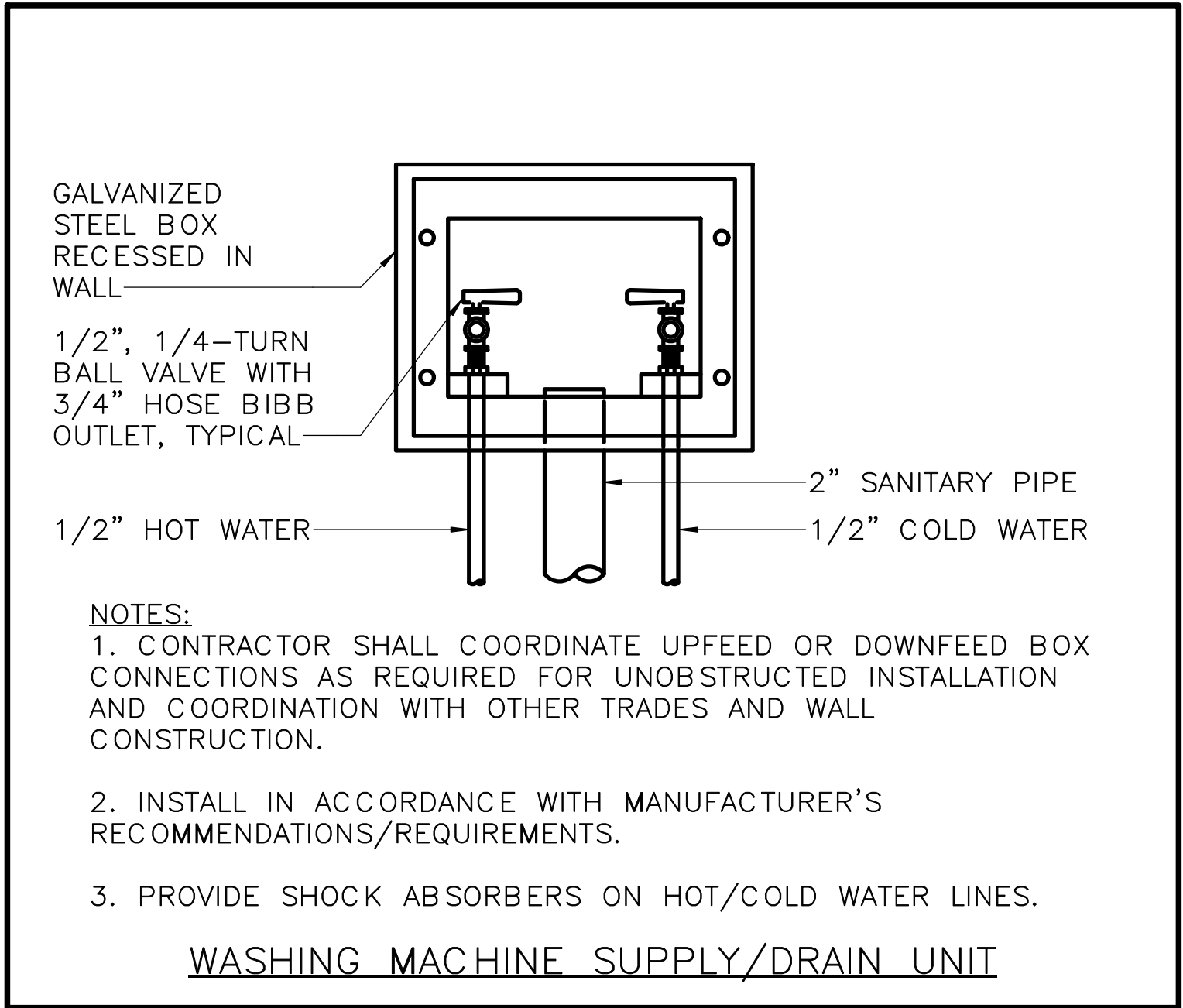
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PMIS/PKG NO.

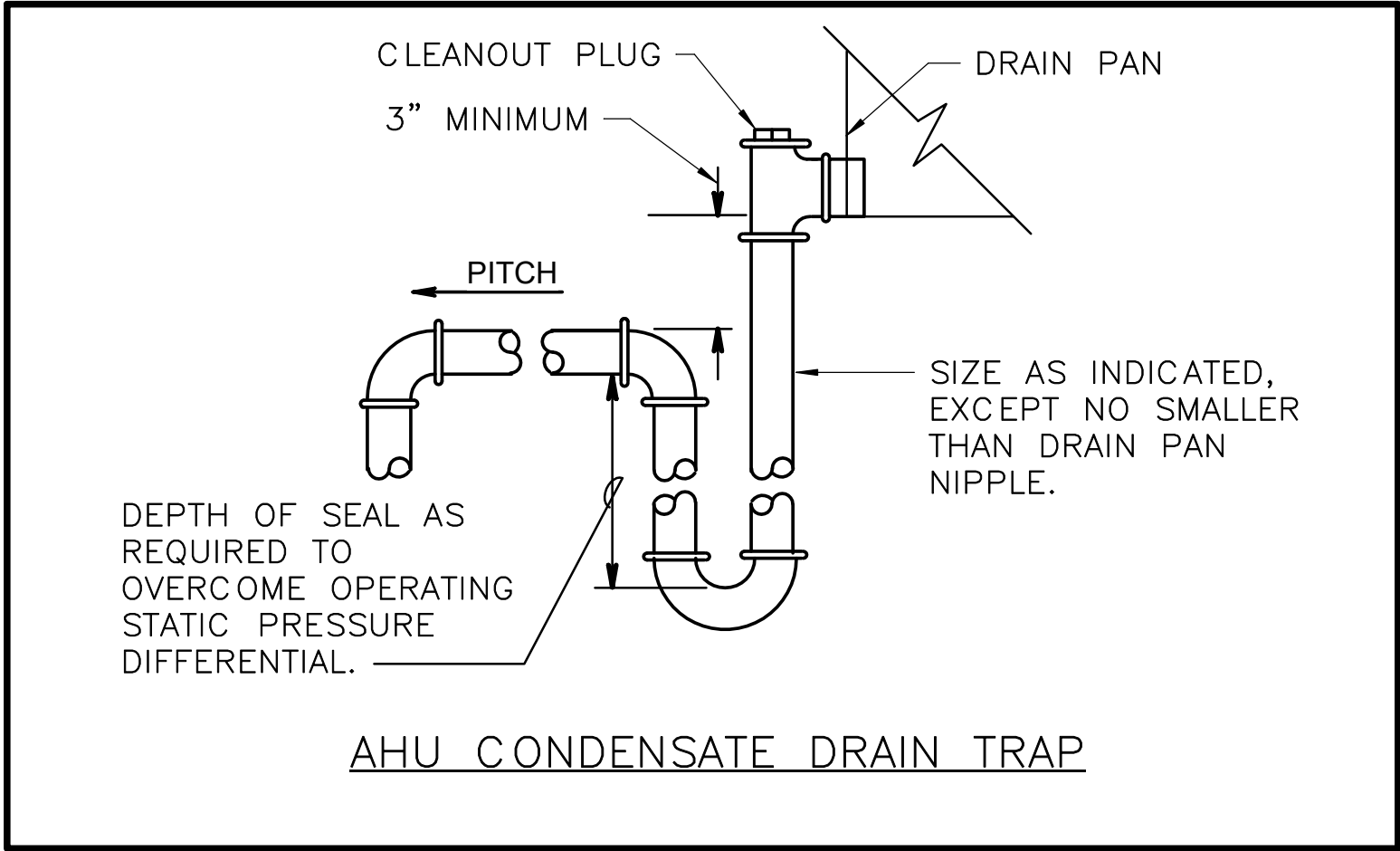
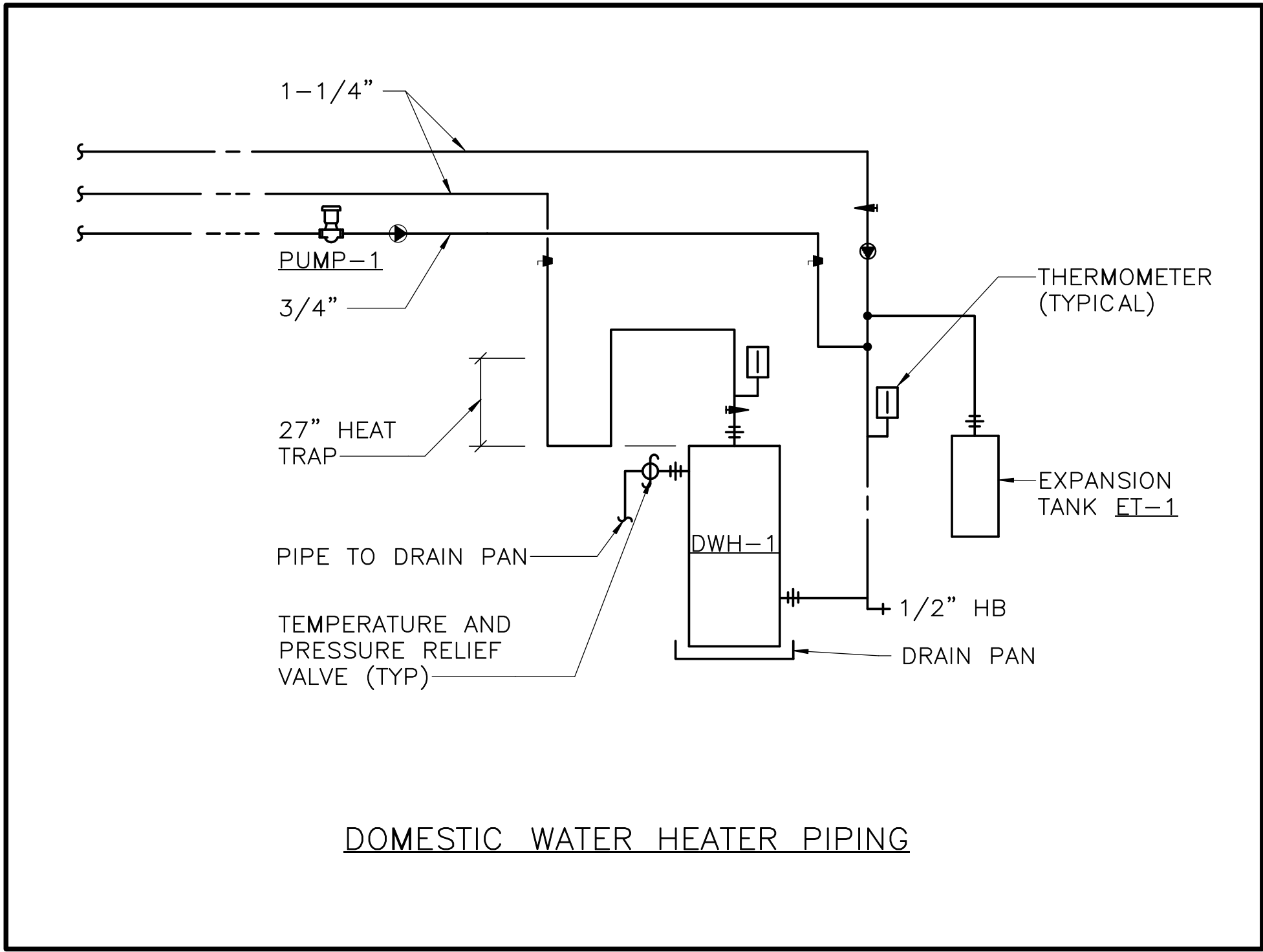
257363

SHEET

63 OF 95



GENERAL NOTES: (APPLICABLE TO ALL SCHEDULES)	
1.	UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.
2.	UNIT SYMBOLS ARE INDICATED WHERE ALL UNITS ARE NOT LISTED AND NUMBERED INDIVIDUALLY.
3.	UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.
4.	TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.
5.	PIPE SIZES ARE LISTED IN SINGLE-NUMBER INCHES OF NOMINAL DIAMETER OR MULTIPLE NUMBER INCHES OF INDICATED PARAMETER. CONNECTION SIZES ARE BRANCH SIZES FROM MAINS TO UNIT INLETS.



PLUMBING FIXTURES						
UNIT SYMBOL	FIXTURE	CW ①	HW ①	SAN ①	VENT ②	NOTES
P-1	WATER CLOSET	1	-	3	1-1/2	
P-3	LAVATORY	1/2	1/2	1-1/2	1-1/2	
P-4	DOUBLE COMPARTMENT SINK	1/2	1/2	1-1/2	1-1/2	
P-5	SHOWER	1/2	1/2	2	1-1/2	
P-6	WASHING MACHINE	1/2	1/2	2	1-1/2	
P-7	ICE MAKER BOX	1/2	-	-	-	

- NOTES FOR PLUMBING FIXTURES:
- ① PIPING CONNECTION SIZES ARE BRANCH SIZES WHICH SHALL BE TO FIXTURE ROUGH-IN LOCATION. PROVIDE ADAPTER WHERE PIPE CONNECTION SIZE AT FIXTURE IS DIFFERENT THAN ROUGH-IN PIPE SIZE.
- ② INDIVIDUAL VENT PIPE SIZE SHALL BE FROM FIXTURE DRAIN OR DRAINAGE FITTING TO BRANCH VENT OR VENT STACK, EXCEPT WHERE INDICATED OTHERWISE.

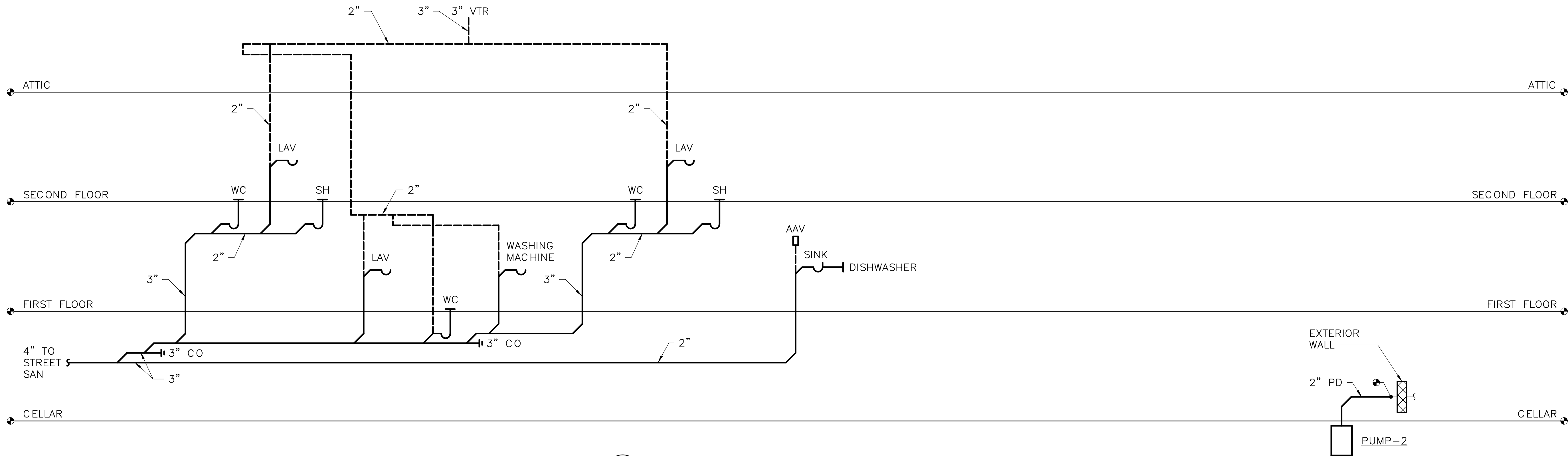
WATER HEATERS										
UNIT NO	LOCATION	SERVICE	APPROX SIZE (WxHxD)	VOLUME (GAL)	INPUT (KW)	TEMPERATURE RISE	EWT	LWT	RECOVERY GPH	NOTES
DWH-1	001 CELLAR	DOMESTIC HW	24x61x24	60	4	90	40	130	18	

DOMESTIC WATER EXPANSION TANKS							
UNIT NO	LOCATION	SERVICE	APPROX SIZE (DxL)	VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	PIPE SIZE	NOTES
ET-1	001 CELLAR	DOMESTIC HOT WATER	16x16	10	10	3/4	

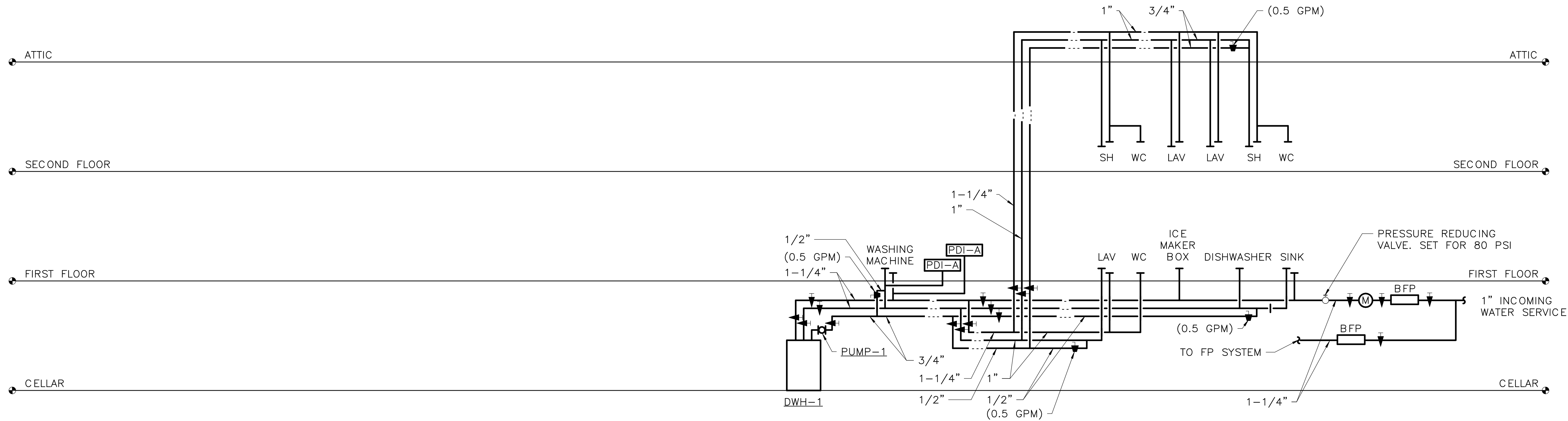
PUMPS										
UNIT NO	TYPE	LOCATION	SERVICE	FLUID	GPM	HEAD FT	HP	RPM	ELECTRICAL VOLTS/HZ/PHASE	NOTES
PUMP-1	J	001 CELLAR	HOT WATER RECIRC	WATER	2.0	6	1/40	3250	220/60/1	
PUMP-2	M	001 CELLAR	SUMP	PUMP DISCHARGE	40.0	15	1/2	3250	220/60/1	

ISSUED FOR BID A/E FIRM = P15PC00037				DESIGNED:	SUB SHEET NO. P5.1	TITLE OF SHEET PLUMBING DETAILS AND SCHEDULES	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD				CADD: GPZ			178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA				TECH. REVIEW: SRH			PMIS/PKG NO. 257363
STRUCTURAL: SGH WASHINGTON, DC				DATE: 02/28/2022			SHEET 64 OF 95
ELECTRICAL: HENRY ADAMS TOWSON, MD				FIRE PROTECTION: HENRY ADAMS TOWSON, MD			GETTYSBURG NATIONAL MILITARY PARK

2/4/2022 10:17:39 AM C:\Revit Projects 2021\14-N009-ZI Mech Central (2021)_zawodniak\VP7F.rvt



2 SANITARY RISER DIAGRAM
P6.0 NO SCALE



1 DOMESTIC WATER RISER DIAGRAM
P6.0 NO SCALE

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A/E FIRM - P15PC00037

PRIME/ARCH:
GWMO, INC.
BALTIMORE, MD

CIVIL:
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GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

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WASHINGTON, DC

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TOWSON, MD

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TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

P6.0

TITLE OF SHEET
PLUMBING RISER
DIAGRAMS

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

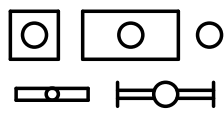


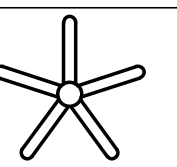

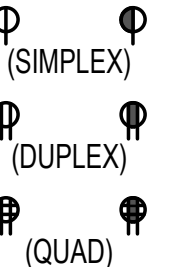


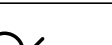






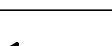
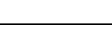
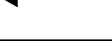
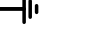




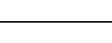

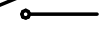

178321

PMIS/PKG NO.

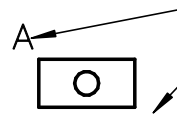






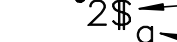





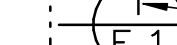







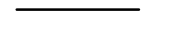
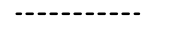
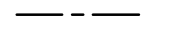
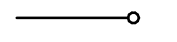





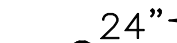



257363

SHEET

65 OF 95

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	LUMINAIRE	
	SINGLE POLE TOGGLE SWITCH	46"
	THREE-WAY TOGGLE SWITCH	46"
	LUMINAIRE - CEILING FAN	--
	RECEPTACLE - SPECIAL NEMA CONFIGURATION AS NOTED. (SHADING INDICATES CONNECTED TO EMERGENCY/STANDBY POWER CIRCUIT)	18"
	RECEPTACLE - NEMA CONFIGURATION 5-20R (SHADING INDICATES CONNECTED TO EMERGENCY/STANDBY POWER CIRCUIT) SUBSCRIPTS: GFI: WITH 5mA GROUND FAULT INTERRUPTER IG: ISOLATED GROUND TYPE SPD: INTEGRAL SURGE PROTECTION AND INDICATOR LIGHT TR: TAMPER-RESISTANT EXP: EXPLOSION PROOF WP: WEATHER-RESISTANT RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER	18"
	JUNCTION BOX (CEILING AND WALL MOUNTED)	-- / AS NOTED
	FRACTIONAL HORSEPOWER MANUAL MOTOR SWITCH	46"
	MOTOR	--
	EQUIPMENT, AS NOTED	--
	UNIT HEATER, SPACE TYPE	--
	SAFETY SWITCH	60" TO TOP
	SURGE PROTECTIVE DEVICE	SEE DETAIL
	PANELBOARD	78" TO TOP
	TELEPHONE OUTLET, WALL MOUNTED	18"
	DATA OUTLET, WALL MOUNTED	18"
	GROUNDING SYSTEM - GROUND CONNECTION	--
	GROUNDING SYSTEM - LIGHTNING PROTECTION AIR TERMINAL	--
	GROUNDING SYSTEM - GROUND ROD	--
	MOLDED CASE CIRCUIT BREAKER (600V AND BELOW)	--
	FIXED CURRENT TRANSFORMER WITH TURN RATIO	--
	CURRENT LIMITING FUSE (600V AND BELOW)	--
	DISCONNECT SWITCH (600V AND BELOW)	--
	KILOWATT METER (KWH = KILOWATT HOURS)	--
	TRANSFORMER	--
	GROUNDING SYSTEM WYE GROUNDED NEUTRAL WINDING	--
	DELTA WINDING	--

- NOTES: (APPLICABLE TO ELECTRICAL LEGEND ONLY)
- THE MOUNTING HEIGHTS GIVEN ON THIS SHEET IN THE ELECTRICAL LEGEND ARE GENERAL AND SHALL BE USED ONLY WHEN MOUNTING HEIGHTS CANNOT BE ESTABLISHED BY REFERENCE TO DETAILS, ELEVATIONS, AND NOTES ON THE DRAWINGS.
 - ALL MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET OR DEVICE.
 - HEIGHTS OF ALL ITEMS NOT COVERED BY THE ELECTRICAL LEGEND AND NOT SHOWN ON THE DRAWINGS SHALL BE AS DIRECTED BY THE ARCHITECT OR ENGINEER.
 - WHERE PLACING ANY ITEM AT THE HEIGHTS LISTED OR NOTED WILL CAUSE INTERFERENCE WITH THE WORK OF OTHER TRADES, OR IS NOT PHYSICALLY POSSIBLE OR DESIRABLE FOR ONE REASON OR ANOTHER, THE ITEM SHALL BE INSTALLED AT A LOCATION APPROVED BY THE ARCHITECT OR ENGINEER.

ELECTRICAL CONVENTIONS	
LIGHTING	
	LUMINAIRE TYPE -- SEE LUMINAIRE SCHEDULE
	CIRCUIT NUMBER
	CONTROL POINT DESIGNATION (IF MORE THAN ONE)
	[LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT] [LUMINAIRE WITH INTEGRAL BATTERY BACKUP]
	STEM INDICATES WALL MOUNTED LUMINAIRE, MOUNTING HEIGHT AS NOTED
	NUMBER OF CONTROL POINTS
	TYPE OF CONTROL
	CONTROL ZONE REFERENCE
REFERENCE	
	SECTION DESIGNATION
	NUMBER DENOTES SECTION IDENTIFICATION
	DRAWING NUMBER WHERE DETAIL IS LOCATED
	DETAIL DESIGNATION
	NUMBER DENOTES DETAIL IDENTIFICATION
	DRAWING NUMBER WHERE DETAIL IS LOCATED
	SPECIAL NOTE (APPLIES WHERE INDICATED ON THE DRAWING)
WIRING	
	INDICATES PANELBOARD CIRCUIT DESIGNATION
	DEVICE TYPE
	BRANCH CIRCUIT HOMERUN TO PANEL "LP-1", CIRCUITS #1,3,5
	NUMBER OF CIRCUITS INDICATED BY QUANTITY OF ARROW HEADS.
	CONCEALED CONDUIT IN CEILING OR WALLS
	CONDUIT IN OR UNDER FLOOR
	EXPOSED CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT, CAPPED
GENERAL NOTE: WHERE WIRE SIZE IS INDICATED AT THE HOMERUN OR ON THE SCHEDULE TO BE LARGER THAN THE SPECIFIED MINIMUM PROVIDE THE INDICATED WIRE SIZE THROUGHOUT THE ENTIRE BRANCH CIRCUIT.	
MOUNTING HEIGHTS	
	INDICATES DEVICE TO BE MOUNTED 8" ABOVE COUNTERTOP BACKSPLASH
	DEVICE TYPE
	INDICATES DEVICE MOUNTING HEIGHT ABOVE FINISHED FLOOR OR ABOVE FINISHED GRADE (AS APPROPRIATE)
	DEVICE TYPE
PRESENTATION	
	ELECTRICAL EQUIPMENT DESIGNATED BY SOLID HEAVY LINEWEIGHT INDICATES NEW WORK TO BE PROVIDED.
	ELECTRICAL EQUIPMENT DESIGNATED BY SOLID LIGHT LINEWEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN, UNLESS OTHERWISE INDICATED.
	ELECTRICAL EQUIPMENT DESIGNATED BY DASHED HEAVY LINEWEIGHT REPRESENTS EXISTING EQUIPMENT TO BE REMOVED AND DISPOSED, UNLESS INDICATED TO BE REMOUNTED, RELOCATED, OR TURNED OVER TO OWNER.
FIRE ALARM	
	CANDELA RATING
	DEVICE TYPE

ELECTRICAL ABBREVIATIONS					
A	AMPERE	FT	FEET	NFSS	NON--FUSED SAFETY SWITCH
ACCU	AIR COOLED CONDENSING UNIT	G	GROUND	NIC	NOT IN CONTRACT
ACU	AIR CONDITIONING UNIT	GB	GROUND BAR	NM	NON--METALLIC
ADA	AMERICANS WITH DISABILITIES ACT	GD	GENERAL DUTY	NO	NORMALLY OPEN
AF	AMPERE FRAME, AMPERE FUSE	GEC	GROUNDING ELECTRODE CONDUCTOR	NTS	NOT TO SCALE
AFCI	ARC FAULT CIRCUIT INTERRUPTER	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OCP	OVERCURRENT PROTECTION
AFF	ABOVE FINISHED FLOOR	GFEP	GROUND FAULT EQUIPMENT PROTECTOR	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
AFG	ABOVE FINISHED GRADE	GFI	GROUND FAULT INTERRUPTER	P	POLE(1P, 2P, 3P)
AHU	AIR HANDLING UNIT	GND	GROUND	PF	POWER FACTOR
AIC	AMPERE INTERRUPTING CAPACITY	GRC	GALVANIZED RIGID STEEL	PH	PHASE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GW	GROUND WIRE	PVC	POLYVINYL CHLORIDE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR--CONDITIONING ENGINEERS	HD	HEAVY DUTY	QTY	QUANTITY
ASYM	ASYMMETRICAL	HOA	HAND--OFF--AUTOMATIC	R	RACEWAY
AT	AMPERE TRIP	HP	HORSEPOWER	REC	RECEPTACLE
AUX	AUXILIARY	HVAC	HEATING VENTILATING AIR CONDITIONING	RGS	RIGID GALVANIZED STEEL
AWG	AMERICAN WIRE GAUGE	HZ	HERTZ	RM	ROOM
BF	BALLAST FACTOR	IMC	INTERMEDIATE METALLIC CONDUIT	RMS	ROOT MEAN SQUARE
BOD	BASIS OF DESIGN	IN	INCH	RNC	RIGID NONMETALLIC CONDUIT
C	CONDUIT	IT	INFORMATION TECHNOLOGY	RX	REMOVE EXISTING
CB	CIRCUIT BREAKER	JB	JUNCTION BOX	SE	SERVICE ENTRANCE
CCT	CORRELATED COLOR TEMPERATURE	K	ONE THOUSAND, KELVIN	SF	SQUARE FEET
CCTV	CLOSED CIRCUIT TELEVISION	KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY	SN	SOLID NEUTRAL
CKT	CIRCUIT	KCMIL	THOUSAND CIRCULAR MILS	SPD	SURGE PROTECTION DEVICE
CMS	COMBINATION MOTOR STARTER	KV	KILOVOLTS	SS	SAFETY SWITCH
COMM	COMMUNICATION	KVA	KILOVOLT--AMPERES	ST	SINGLE--THROW
CRI	COLOR RENDERING INDEX	KW	KILOWATTS	SW	SWITCH
CT	CURRENT TRANSFORMER	LED	LIGHT EMITTING DIODE	SYM	SYMMETRICAL
CU	COPPER	LF	LINEAR FEET	T	TRANSFORMER
CX	CONNECT TO EXISTING	LFG	LIGHTING	TA	TRIP AMPERES
DS	DISCONNECT SWITCH	LTS	LIGHTS	TECH	TECHNOLOGY
DWG	DRAWING	LV	LOW VOLTAGE	TGB	TELECOMMUNICATIONS GROUND BAR
EBU	EMERGENCY BATTERY UNIT	MAX	MAXIMUM	THD	TOTAL HARMONIC DISTORTION
ECB	ENCLOSED CIRCUIT BREAKER	MCA	MINIMUM CIRCUIT AMPACITY	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
EF	EXHAUST FAN	MCB	MAIN CIRCUIT BREAKER	TTB	TELEPHONE TERMINAL BOARD
EMT	ELECTRICAL METALLIC TUBING	MCCB	MOLDED CASE CIRCUIT BREAKER	TYP	TYPICAL
ENT	ELECTRICAL NONMETALLIC TUBING	MCP	MOTOR CIRCUIT PROTECTOR	UGE	UNDERGROUND ELECTRIC
EQUIP	EQUIPMENT	MGB	MAIN GROUND BAR	UH	UNIT HEATER
ETR	EXISTING TO REMAIN	MIN	MINIMUM	UL	UNDERWRITERS LABORATORY
EX	EXISTING	MMS	MANUAL MOTOR STARTER	UON	UNLESS OTHERWISE NOTED
F	FUSED, FUSIBLE, FAHRENHEIT	MOC P	MAXIMUM OVERCURRENT PROTECTION	UTP	UNSHIELDED TWISTED PAIR
FA	FIRE ALARM	MTD	MOUNTED	V	VOLTS
FAAP	FIRE ALARM ANNUNCIATOR PANEL	N	NEUTRAL	VA	VOLT--AMPERES
FACP	FIRE ALARM CONTROL PANEL	NAC	NOTIFICATION APPLIANCE CIRCUIT	W	WIRE, WATTS
FCU	FAN COIL UNIT	NC	NORMALLY CLOSED	W/	WITH
FDR	FEEDER	NEC	NATIONAL ELECTRICAL CODE	WP	WEATHERPROOF
FLA	FULL LOAD AMPERAGE	NF	NON--FUSED	WR	WEATHER RESISTANT
FSS	FUSED SAFETY SWITCH	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	XFMR	TRANSFORMER
				Y	WYE

ISSUED FOR BID

A/E FIRM -- P15PC00037

PRIME/ARCH:
GWGO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
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LANDSCAPE:
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ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JUST

DATE:

02/28/2022

SUB SHEET NO.

E0.1

TITLE OF SHEET
ELECTRICAL COVER
SHEET

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

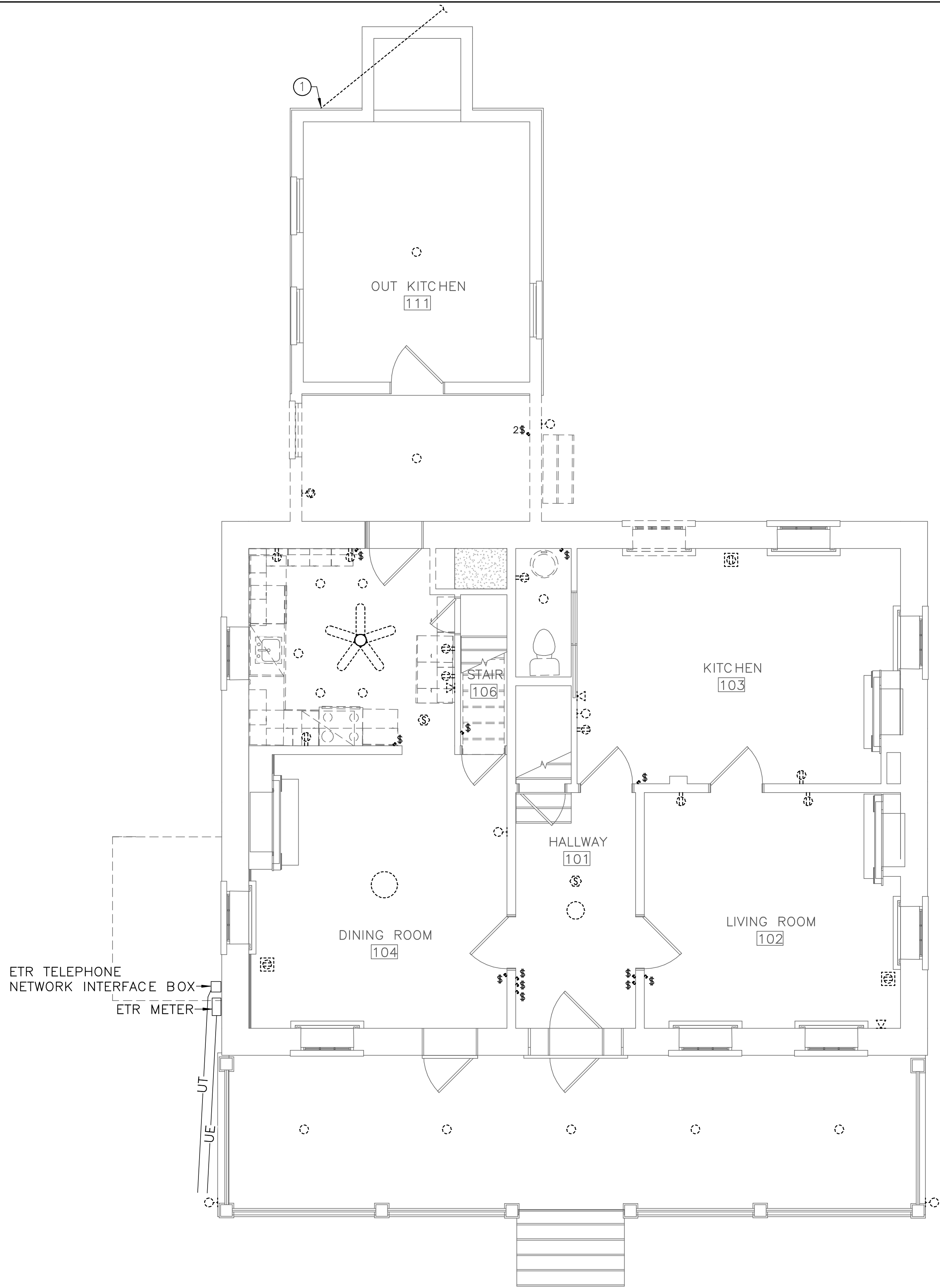
178321

PMIS/PKG NO.

257363

SHEET

66 of 95



1 FIRST FLOOR – ELECTRICAL DEMOLITION
ED1.1 SCALE (A)

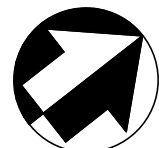
DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (-----) INDICATES EXISTING WORK TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
- D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- ① REMOVE EXISTING WEATHERHEAD AND OVERHEAD ELECTRIC TO GARAGE.

SCALE (A) 4 0 4 8
SCALE OF FEET



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TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

ED1.1

TITLE OF SHEET
FIRST FLOOR –
ELECTRICAL DEMOLITION

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

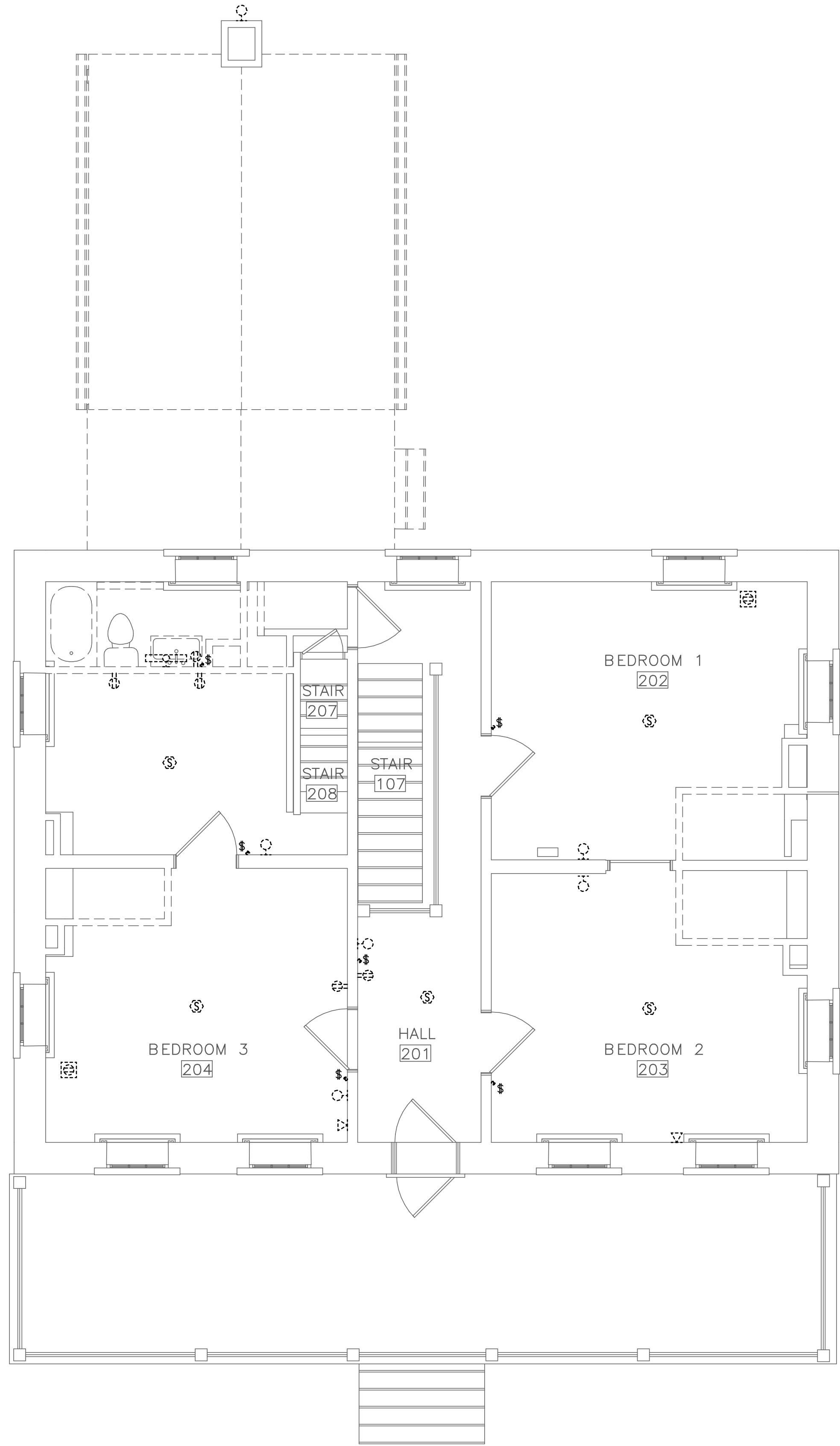
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PMIS/PKG NO.

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SHEET

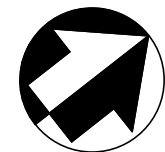
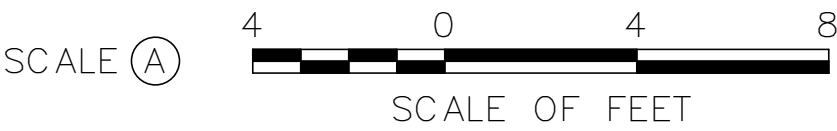
69 OF 95



1 SECOND FLOOR — ELECTRICAL DEMOLITION
ED1.2 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (-----) INDICATES EXISTING WORK TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
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TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLE

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

ED1.2

TITLE OF SHEET
SECOND FLOOR —
ELECTRICAL DEMOLITION

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305
178321

PMIS/PKG NO.
257363

SHEET

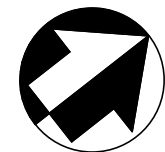
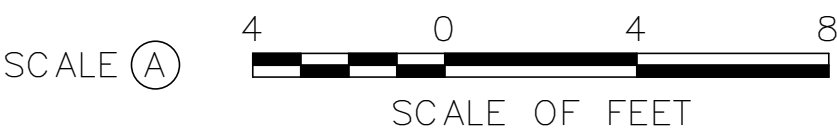
70 OF 95



1 ROOF — ELECTRICAL DEMOLITION
ED1.3 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
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A/E FIRM - P15PC00037

PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD

DESIGNED: JLW
CADD: JLW
TECH. REVIEW: JST
DATE: 02/28/2022

SUB SHEET NO. ED1.3

TITLE OF SHEET ROOF — ELECTRICAL DEMOLITION
GETTYSBURG NATIONAL MILITARY PARK

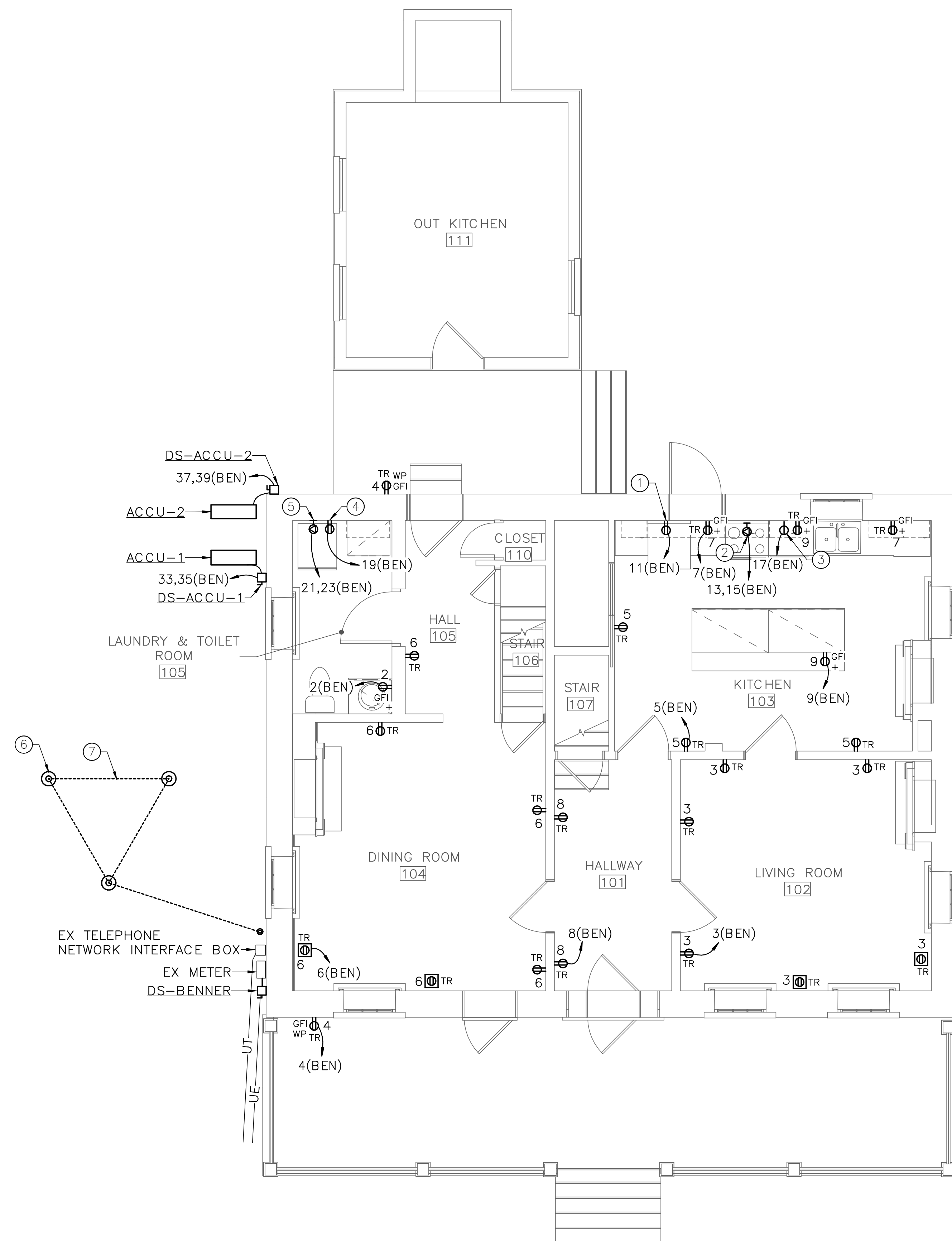
DRAWING NO. 305
PMIS/PKG NO. 257363
SHEET 71 OF 95

D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.

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A/E FIRM — P15PC00037				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
PRIME/ARCH: GWWG, INC BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	JLW CADD: JLW TECH. REVIEW: JST DATE: 02/28/2022	E1.0	CELLAR — POWER NEW WORK	305 178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	PMIS/PKG NO. 257363			
				GETTYSBURG NATIONAL MILITARY PARK			SHEET 72 OF 95



DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

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D.3. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES
WITH FLOOR JOIST LOCATIONS AND CONTRACTING OFFICER.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- ① FOR REFRIGERATOR. MOUNT TO SUIT EQUIPMENT.
- ② FOR RANGE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE NEMA 14-50R RECEPTACLE. PROVIDE AND INSTALL CORD AND PLUG KIT.
- ③ FOR DISHWASHER. MOUNT TO SUIT EQUIPMENT.
- ④ FOR WASHER. MOUNT TO SUIT EQUIPMENT.
- ⑤ FOR STACKED DRYER. MOUNT TO SUIT EQUIPMENT. PROVIDE NEMA 14-30R RECEPTACLE. PROVIDE AND INSTALL CORD AND PLUG KIT.
- ⑥ GROUND ROD, TYPICAL OF 3.
- ⑦ GROUNDING CONDUCTOR BURIED 24 INCHES BELOW FINISHED GRADE, MINIMUM.

1 FIRST FLOOR — POWER NEW WORK
E1.1 SCALE (A)

ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
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GETTYSBURG, PA

MECHANICAL:
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TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

[illegible]

JLW

CADD:

JLW

TECH. REV.

ON: JST

DATE:

SUB SHEET NO.

E1.1

TITLE OF SHEET
FIRST FLOOR — POWER
NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

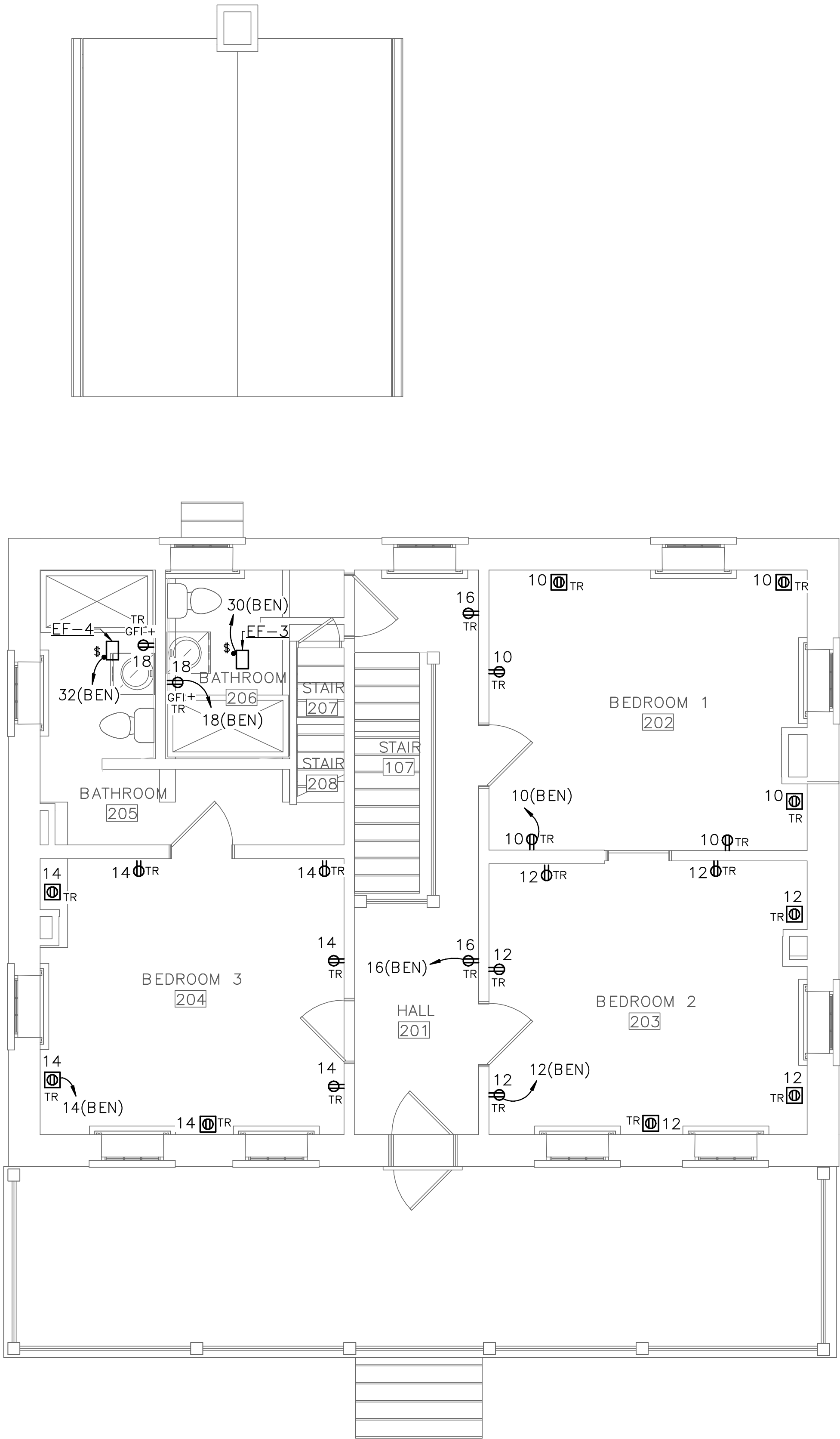
DRAWING NO.
305

$$\begin{array}{r} 305 \\ \hline 78321 \end{array}$$

IS/PKG NO.
257363

SHEET

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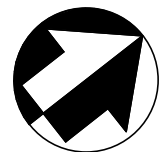


1 SECOND FLOOR — POWER NEW WORK
E1.2 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

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- D.3. COORDINATE EXACT LOCATION OF FLOOR RECEPTACLES WITH FLOOR JOIST LOCATIONS AND CONTRACTING OFFICER.

SCALE (A) 4 0 4 8
SCALE OF FEET



ISSUED FOR BID

A/E FIRM - P15PC00037

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TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

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CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

E1.2

TITLE OF SHEET
SECOND FLOOR —
POWER NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

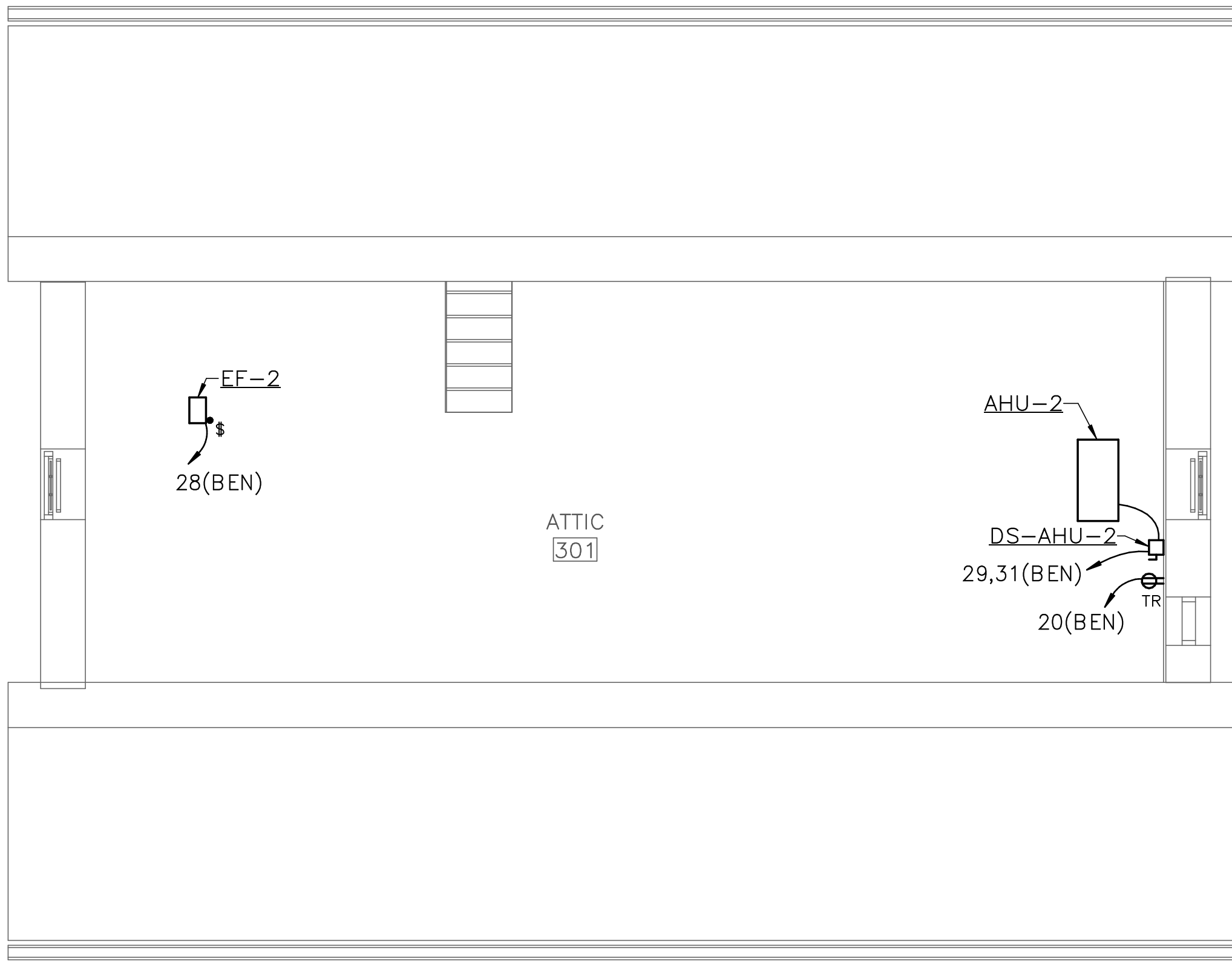
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PMIS/PKG NO.

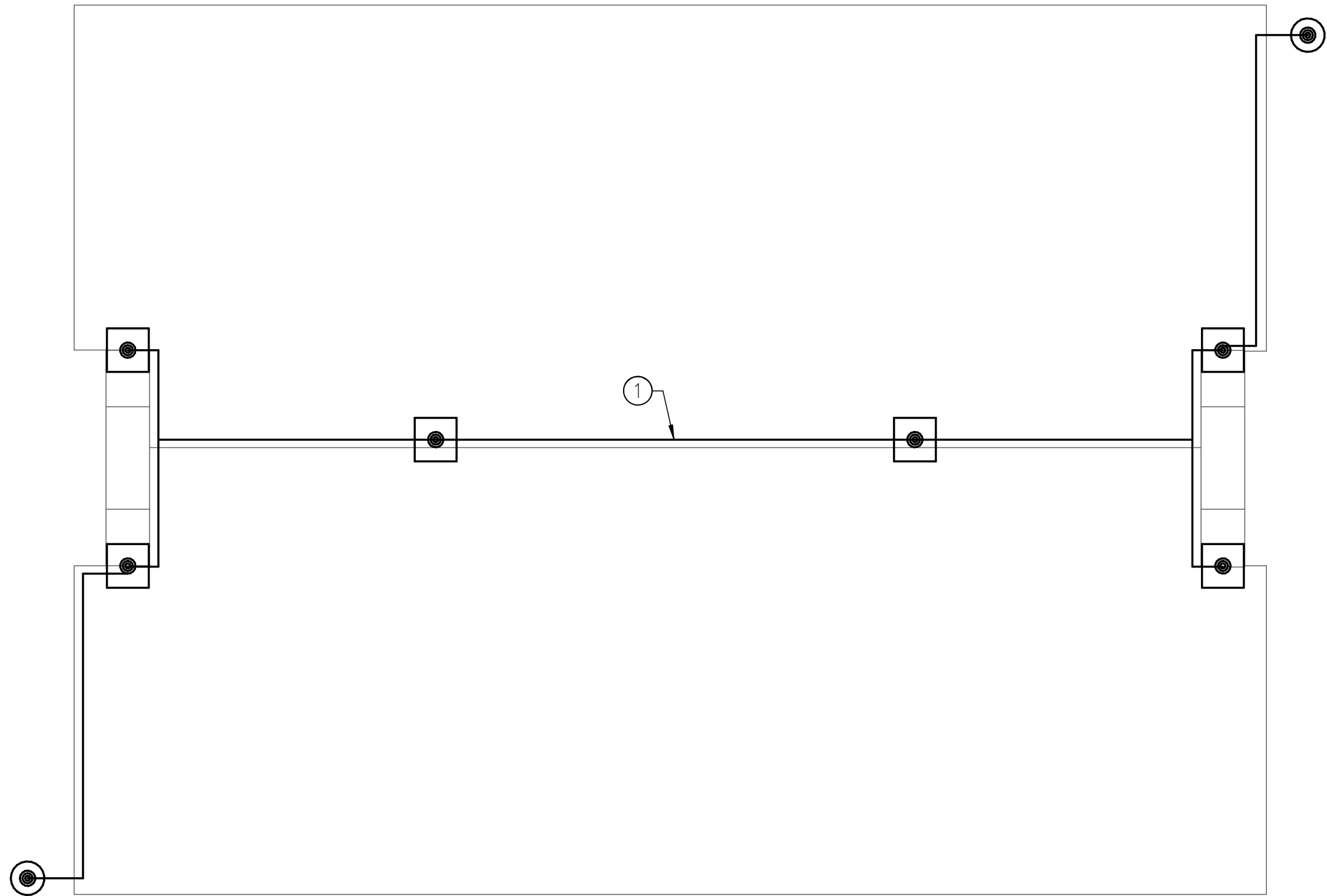
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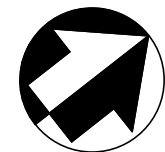
74 OF 95



1 ATTIC — POWER NEW WORK
E1.3 SCALE (A)



2 ROOF — POWER NEW WORK
E1.3 SCALE (A)



ISSUED FOR BID

A/E FIRM - P15PC00037

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FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

E1.3

TITLE OF SHEET
ATTIC AND ROOF —
POWER NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

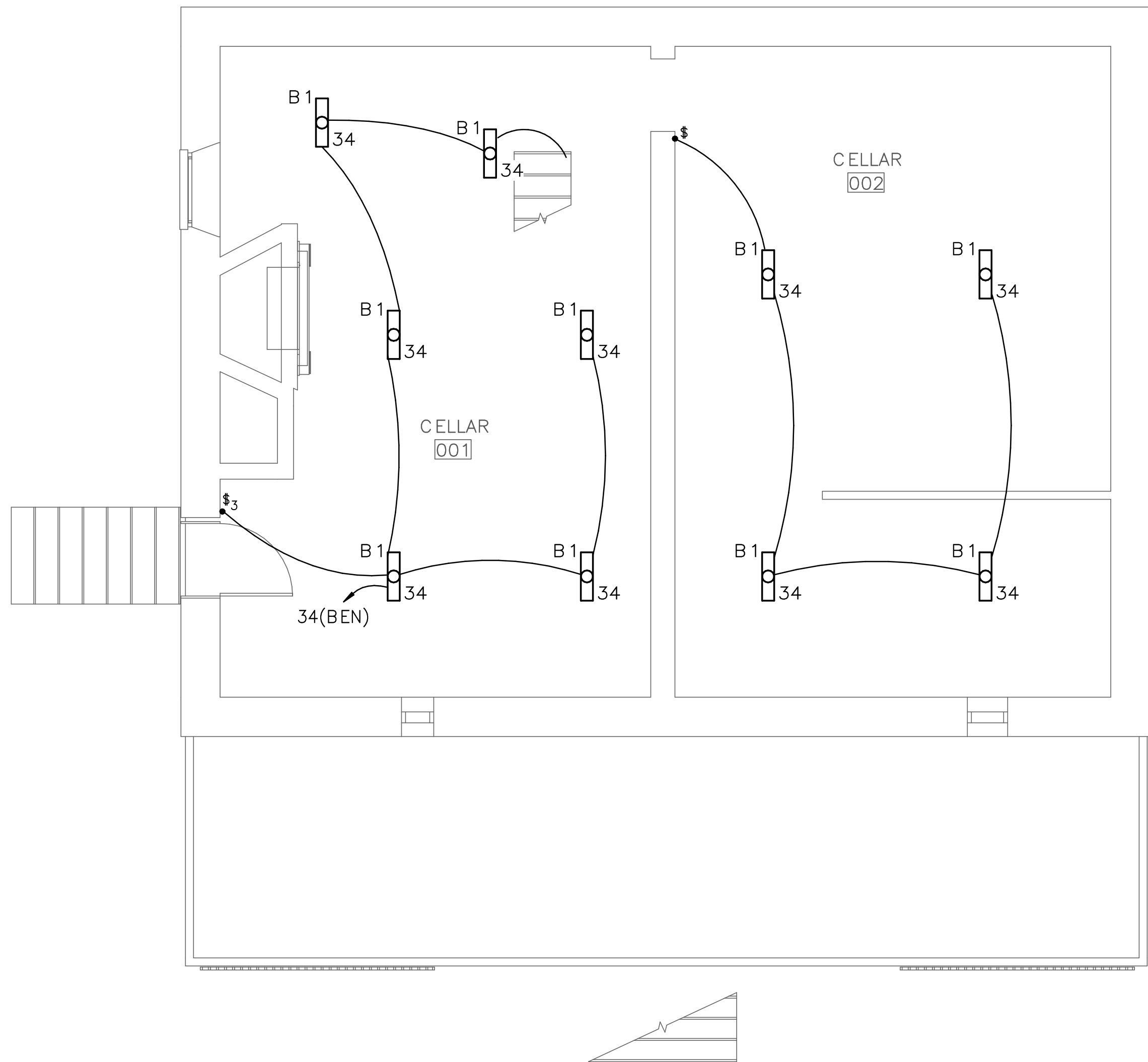
PMIS/PKG NO.

257363

SHEET

75 OF 95

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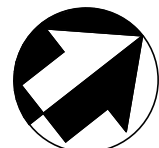


1 CELLAR — LIGHTING NEW WORK
E2.0 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
- D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SCALE (A) 4 0 4 8
SCALE OF FEET



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

E2.0

TITLE OF SHEET
CELLAR — LIGHTING
NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

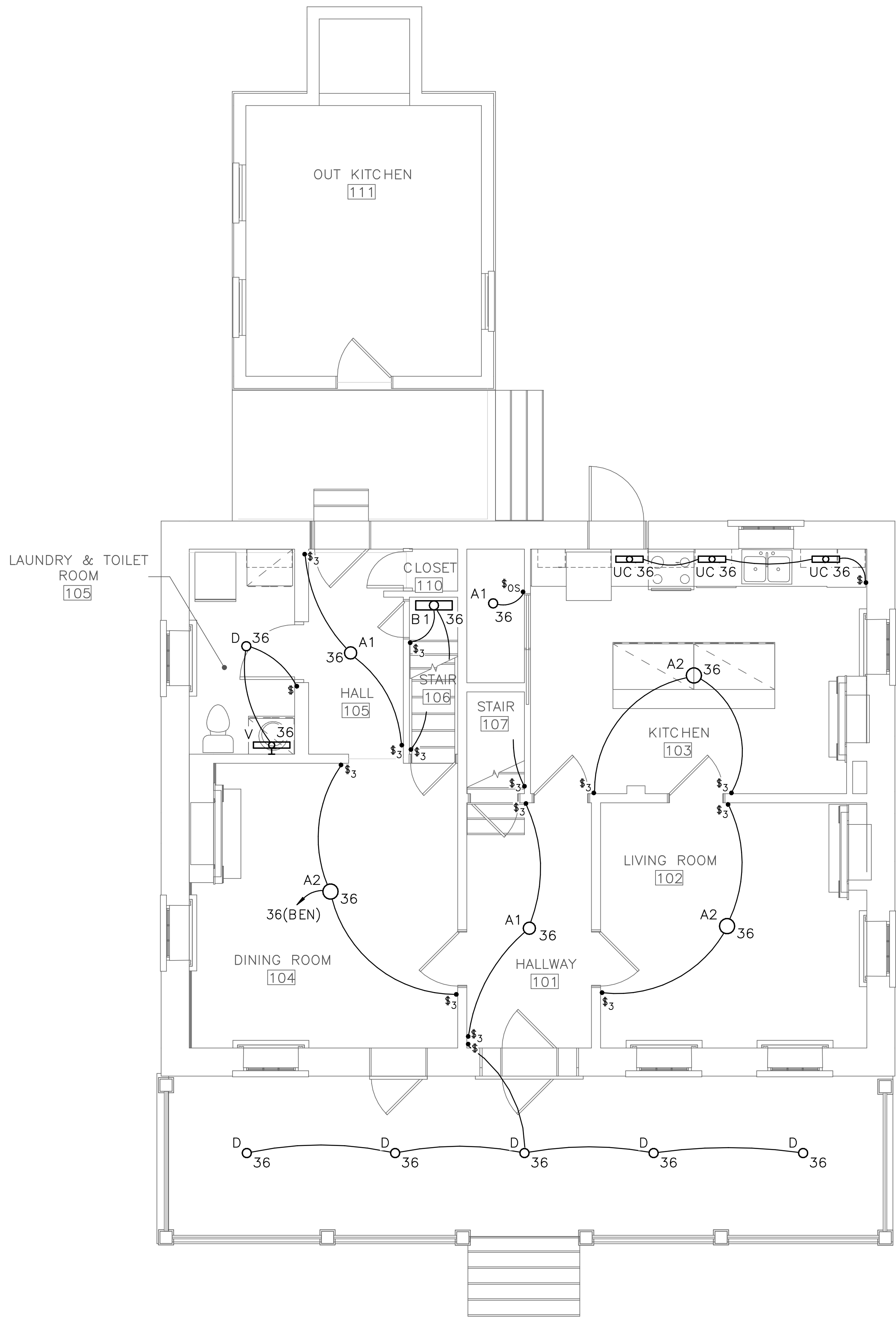
178321

PMIS/PKG NO.

257363

SHEET

76 OF 95

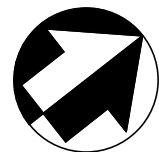


1 FIRST FLOOR – LIGHTING NEW WORK
E2.1 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
- D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SCALE (A) 4 0 4 8
SCALE OF FEET



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TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

E2.1

TITLE OF SHEET

FIRST FLOOR –
LIGHTING NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

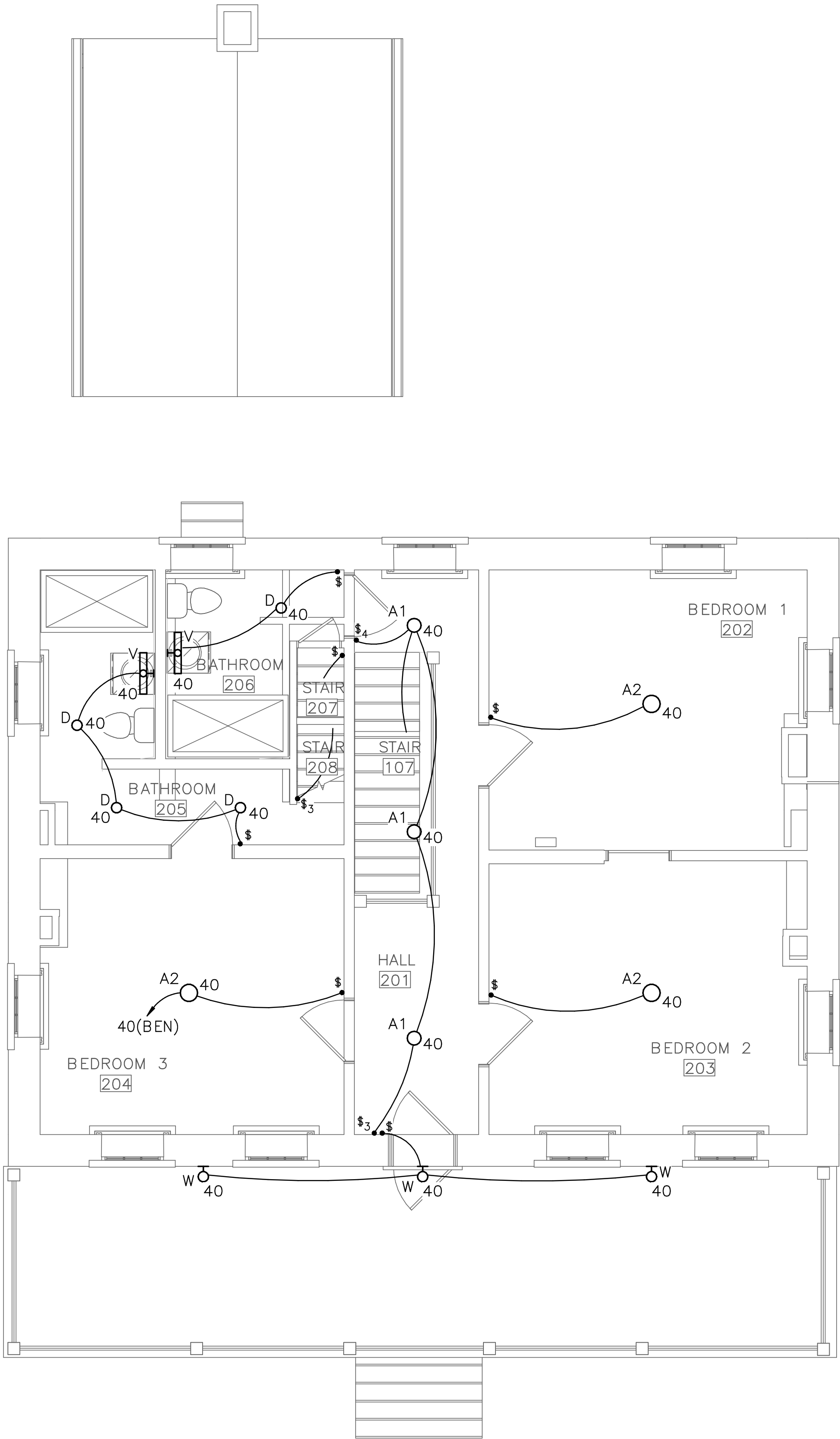
305
178321

PMIS/PKG NO.
257363

SHEET

77 OF 95

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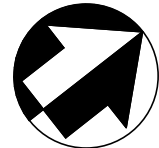


1 SECOND FLOOR — LIGHTING NEW WORK
E2.2 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
- D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SCALE (A) 4 0 4 8
SCALE OF FEET



ISSUED FOR BID

A/E FIRM - P15PC00037

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WASHINGTON, DC

ELECTRICAL:
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TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

E2.2

TITLE OF SHEET
SECOND FLOOR —
LIGHTING NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

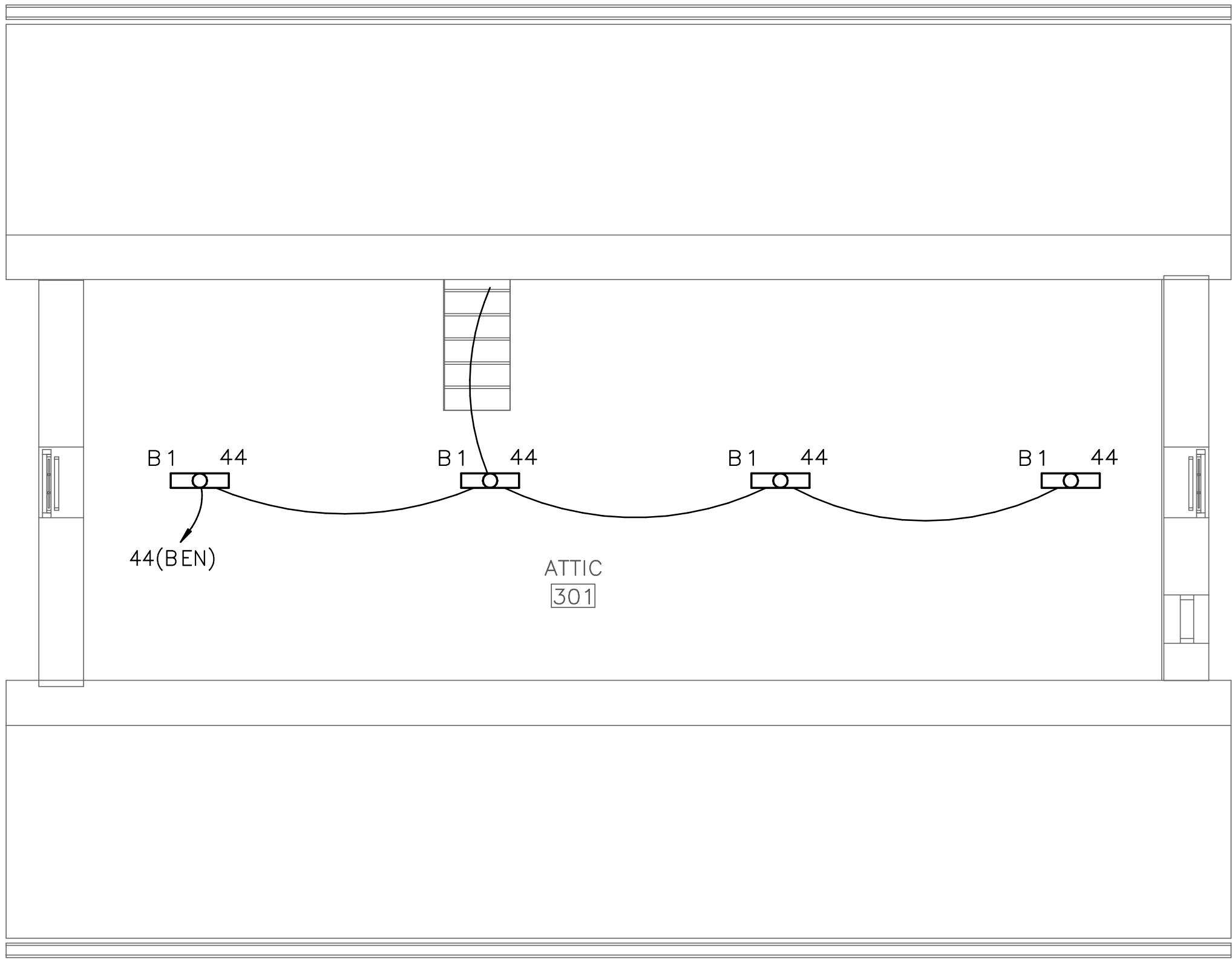
PMIS/PKG NO.

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SHEET

78 OF 95

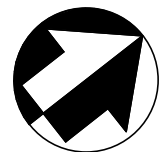
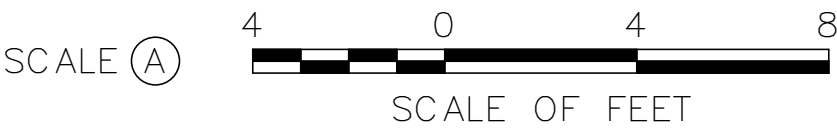
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1 ATTIC — LIGHTING NEW WORK
E2.3 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
- D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
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BALTIMORE, MD

CIVIL:
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GETTYSBURG, PA

MECHANICAL:
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PLUMBING:
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LANDSCAPE:
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STRUCTURAL:
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WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

E2.3

TITLE OF SHEET
ATTIC — LIGHTING PLAN

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

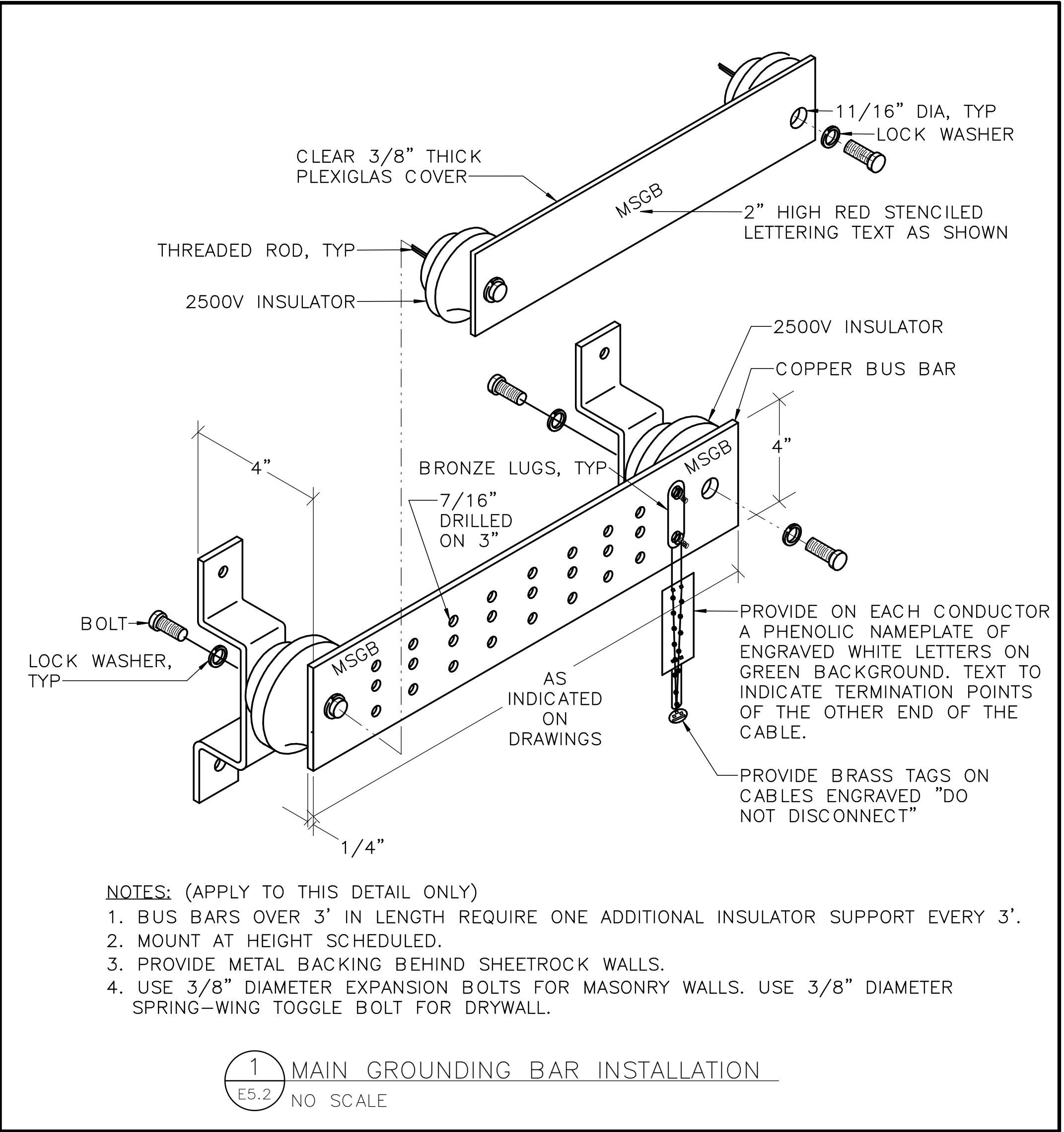
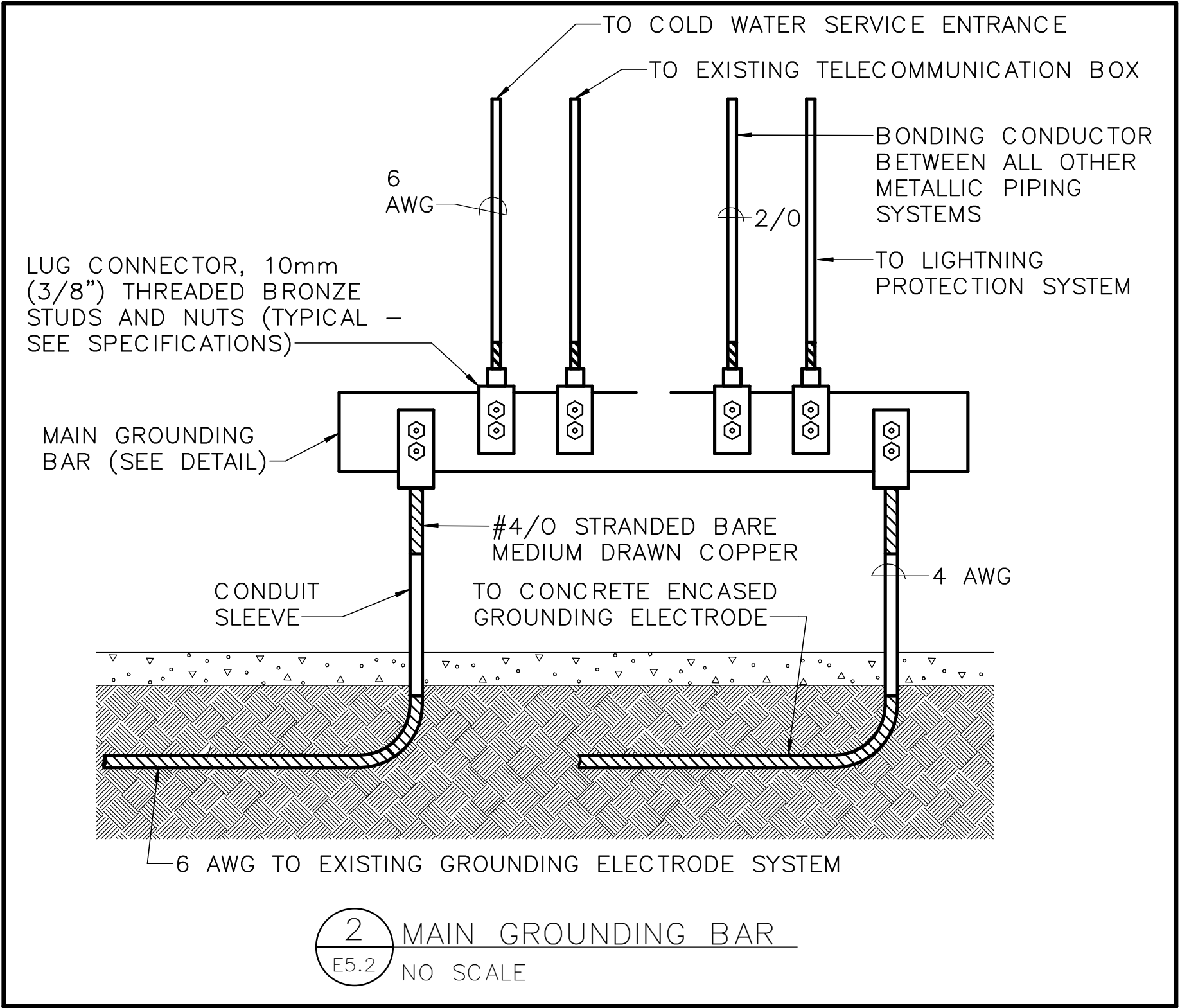
305

PMIS/PKG NO.

257363

SHEET

79 OF 95



ISSUED FOR BID
A/E FIRM - P15PC00037

PRIME/ARCH: GWWO, INC. BALTIMORE, MD
CIVIL: CS DAVIDSON GETTYSBURG, PA
MECHANICAL: HENRY ADAMS TOWSON, MD
PLUMBING: HENRY ADAMS TOWSON, MD

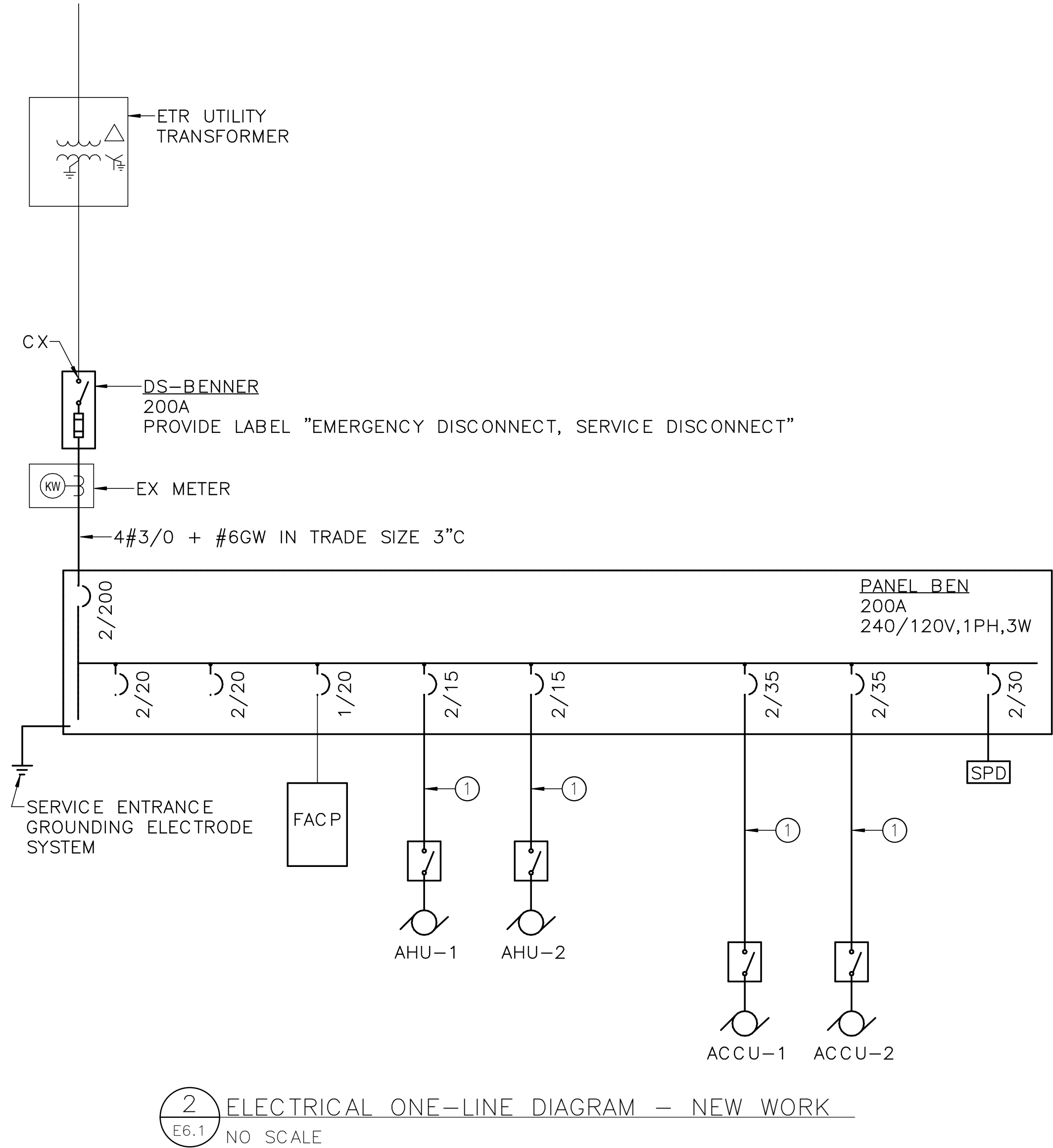
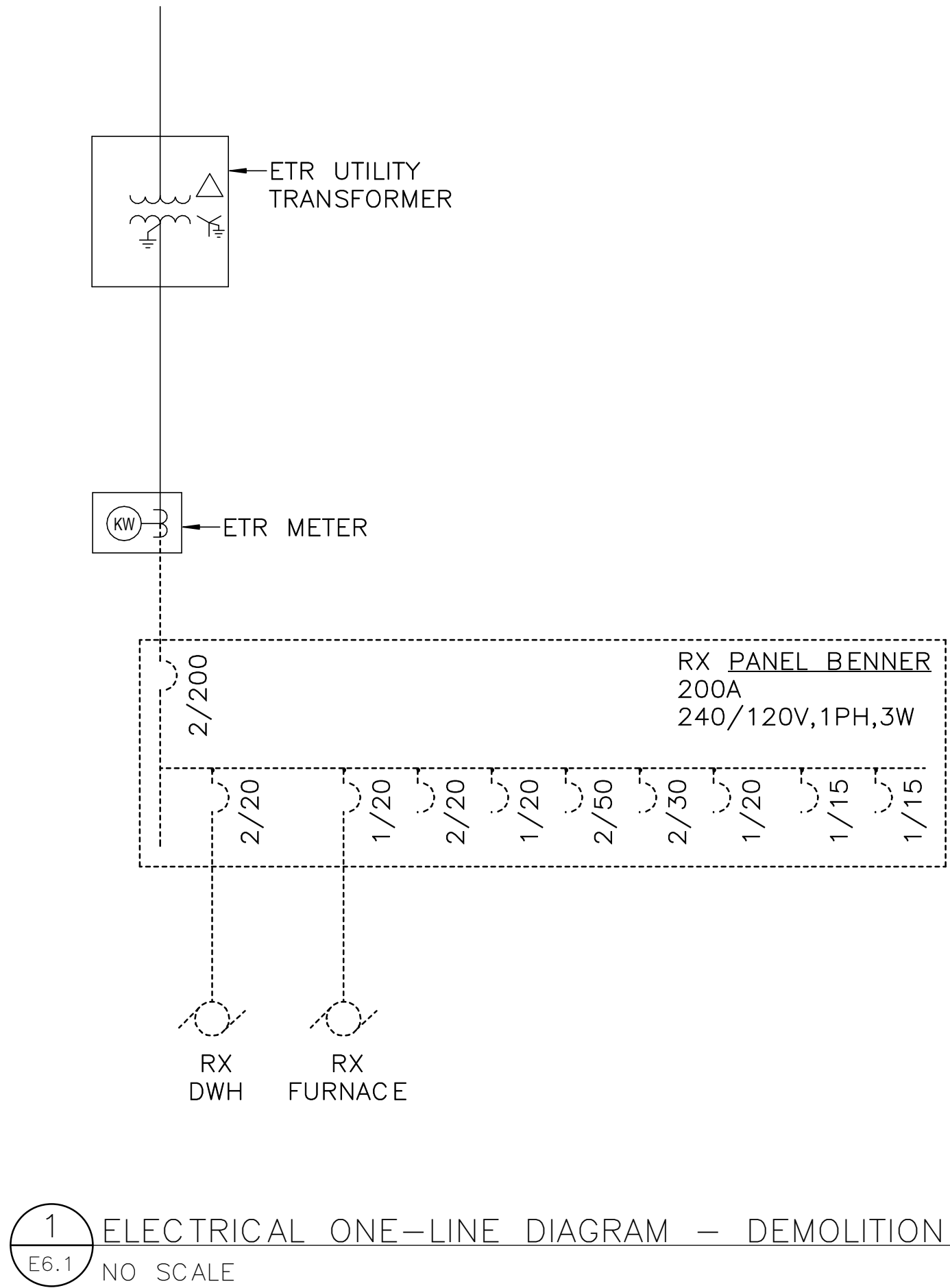
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA
STRUCTURAL: SGH WASHINGTON, DC
ELECTRICAL: HENRY ADAMS TOWSON, MD
FIRE PROTECTION: HENRY ADAMS TOWSON, MD

DESIGNED: JLW
CADD: JLW
TECH. REVIEW: JST
DATE: 02/28/2022

SUB SHEET NO.
E5.2

TITLE OF SHEET
ELECTRICAL DETAILS
GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO. 305
178321
PMIS/PKG NO. 257363
SHEET 81 OF 95



DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (————) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (-----) INDICATES EXISTING WORK TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (————) INDICATES EXISTING ITEMS TO REMAIN.
- D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- ① REFER TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ON E8.2.

ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
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GETTYSBURG, PA

MECHANICAL:
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FIRE PROTECTION:
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TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

E6.1

TITLE OF SHEET
**ELECTRICAL ONE-LINE
DIAGRAMS**

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305
178321

PMIS/PKG NO.

257363

SHEET

82 OF 95

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE												
EQUIPMENT DESIGNATION	KW	HP	MCA	MOC P	FLA	VOLTAGE	PHASE	LOAD (kVA)	WIRING	DISCONNECTING MEANS	CONTROL MEANS	NOTES
ACCU-1			29.1	35	23.3	240	1	5.59	2#8 + #10GW IN TRADE SIZE 1"C	DS-ACCU-1		
ACCU-2			29.1	35	23.3	240	1	5.59	2#8 + #10GW IN TRADE SIZE 1"C	DS-ACCU-1		
AHU-1			4.9	15	3.9	240	1	0.94	2#12 + #12GW IN TRADE SIZE 3/4"C	DS-AHU-1		
AHU-2			6.5	15	5.2	240	1	1.25	2#12 + #12GW IN TRADE SIZE 3/4"C	DS-AHU-2		
DWH-1					16.7	240	1	4.00	2#10 + #10GW IN TRADE SIZE 3/4"C	DS-DWH-1		
EF-1		1/4			5.8	120	1	0.70	2#12 + #12GW IN TRADE SIZE 3/4"C	MANUAL SWITCH		
EF-2		1/4			5.8	120	1	0.70	2#12 + #12GW IN TRADE SIZE 3/4"C	MANUAL SWITCH		
EF-3					1.2	120	1	0.14	2#12 + #12GW IN TRADE SIZE 3/4"C	MANUAL SWITCH		
EF-4					1.2	120	1	0.14	2#12 + #12GW IN TRADE SIZE 3/4"C	MANUAL SWITCH		
EF-5		1/4			5.8	120	1	0.70	2#12 + #12GW IN TRADE SIZE 3/4"C	MANUAL SWITCH		

- NOTES: (APPLICABLE TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ONLY)
- REVIEW EQUIPMENT SUBMITTALS FROM OTHER TRADES PRIOR TO ORDERING OR INSTALLING ASSOCIATED ELECTRICAL WORK. IF EQUIPMENT PROVIDED DIFFERS FROM BASIS-OF-DESIGN, ELECTRICAL CONTRACTOR SHALL MODIFY COMPONENTS OF THE ELECTRICAL CONNECTIONS AS NECESSARY TO MATCH NAMEPLATE DATA OF APPROVED EQUIPMENT AND PROVIDE A CODE COMPLIANT INSTALLATION, INCLUDING BUT NOT LIMITED TO CIRCUIT BREAKERS, WIRE, CONDUITS, CONNECTION TYPES, SWITCHES, AND FUSES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED FOR FAILURE TO COORDINATE WITH OTHER TRADES' EQUIPMENT SUBMITTALS.
 - PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES. FIELD COORDINATE EXACT LOCATIONS. DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURERS' RECOMMENDED MAINTENANCE CLEARANCES. COORDINATE EXACT LOCATION OF SAFETY SWITCHES WITH MECHANICAL EQUIPMENT/CONTRACTOR.

DISCONNECT SWITCH SCHEDULE							
DESIGNATION	AMP RATING	POLES	VOLT RATING	FUSE AMPS	FUSE CLASS	NEMA ENCLOSURE	NOTES
DS-ACCU-1	60	2	240			3R	
DS-ACCU-2	60	2	240			3R	
DS-AHU-1	30	2	240			1	
DS-AHU-2	30	2	240			1	
DS-BENNER	200	2	240	200	RK5	3R	
DS-DWH-1	30	2	240			1	

- NOTES: (APPLICABLE TO DISCONNECT SWITCH SCHEDULE ONLY)
- PROVIDE FUSE AND COORDINATE EXACT EQUIPMENT FUSE SIZE WITH MOTOR OR EQUIPMENT NAMEPLATE DATA DURING CONSTRUCTION.
 - ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH GROUND LUG.
 - PROVIDE ALL FUSIBLE DISCONNECT SWITCHES WITH CLASS R FUSE KIT.
 - LABEL DISCONNECT SWITCHES WITH THE DESIGNATION IDENTIFIED IN THIS SCHEDULE AND THE CIRCUIT NUMBER AND PANELBOARD FROM WHICH IT IS FED, INCLUDING VOLTAGE AND PHASE.

ISSUED FOR BID				DESIGNED:		SUB SHEET NO.		TITLE OF SHEET		DRAWING NO.	
A/E FIRM = P15PC00037				JLW		E8.2		ELECTRICAL EQUIPMENT SCHEDULES		305	
PRIME/ARCH: GWWO, INC. BALTIMORE, MD		CIVIL: CS DAVIDSON GETTYSBURG, PA		MECHANICAL: HENRY ADAMS TOWSON, MD						178321	
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA		STRUCTURAL: SGH WASHINGTON, DC		ELECTRICAL: HENRY ADAMS TOWSON, MD						PMIS/PKG NO. 257363	
				FIRE PROTECTION: HENRY ADAMS TOWSON, MD						SHEET	
				JST						84 OF 95	
				DATE: 02/28/2022				GETTYSBURG NATIONAL MILITARY PARK			

BRANCH CIRCUIT SCHEDULE		
120 OR 277 VOLT, 1PH, 2W CIRCUITS		
CIRCUIT BREAKER	CONDUCTOR & CONDUIT SIZE	
15A-1P	2#12 + #12GW IN 3/4"C	
20A-1P	2#12 + #12GW IN 3/4"C	
25A-1P	2#10 + #10GW IN 3/4"C	
30A-1P	2#10 + #10GW IN 3/4"C	
35A-1P	2#8 + #10GW IN 3/4"C	
40A-1P	2#8 + #10GW IN 3/4"C	
45A-1P	2#6 + #10GW IN 3/4"C	
50A-1P	2#6 + #10GW IN 3/4"C	
60A-1P	2#4 + #10GW IN 1"C	
208 VOLT, 1PH, 2W CIRCUITS		
CIRCUIT BREAKER	CONDUCTOR & CONDUIT SIZE	
15A-2P	2#12 + #12GW IN 3/4"C	
20A-2P	2#12 + #12GW IN 3/4"C	
25A-2P	2#10 + #10GW IN 3/4"C	
30A-2P	2#10 + #10GW IN 3/4"C	
35A-2P	2#8 + #10GW IN 3/4"C	
40A-2P	2#8 + #10GW IN 3/4"C	
45A-2P	2#6 + #10GW IN 3/4"C	
50A-2P	2#6 + #10GW IN 3/4"C	
60A-2P	2#4 + #10GW IN 1"C	
120/208 VOLT, 1PH, 3W CIRCUITS		
CIRCUIT BREAKER	CONDUCTOR & CONDUIT SIZE	
15A-2P	3#12 + #12GW IN 3/4"C	
20A-2P	3#12 + #12GW IN 3/4"C	
25A-2P	3#10 + #10GW IN 3/4"C	
30A-2P	3#10 + #10GW IN 3/4"C	
35A-2P	3#8 + #10GW IN 3/4"C	
40A-2P	3#8 + #10GW IN 3/4"C	
45A-2P	3#6 + #10GW IN 1"C	
50A-2P	3#6 + #10GW IN 1"C	
60A-2P	3#4 + #10GW IN 1-1/4"C	
208 OR 480 VOLT, 3PH, 3W CIRCUITS		
CIRCUIT BREAKER	CONDUCTOR & CONDUIT SIZE	
15A-3P	3#12 + #12GW IN 3/4"C	
20A-3P	3#12 + #12GW IN 3/4"C	
25A-3P	3#10 + #10GW IN 3/4"C	
30A-3P	3#10 + #10GW IN 3/4"C	
35A-3P	3#8 + #10GW IN 3/4"C	
40A-3P	3#8 + #10GW IN 3/4"C	
45A-3P	3#6 + #10GW IN 1"C	
50A-3P	3#6 + #10GW IN 1"C	
60A-3P	3#4 + #10GW IN 1-1/4"C	
120/208 & 277/480 VOLT, 3PH, 4W CIRCUITS		
CIRCUIT BREAKER	CONDUCTOR & CONDUIT SIZE	
15A-3P	4#12 + #12GW IN 3/4"C	
20A-3P	4#12 + #12GW IN 3/4"C	
25A-3P	4#10 + #10GW IN 3/4"C	
30A-3P	4#10 + #10GW IN 3/4"C	
35A-3P	4#8 + #10GW IN 3/4"C	
40A-3P	4#8 + #10GW IN 3/4"C	
45A-3P	4#6 + #10GW IN 1"C	
50A-3P	4#6 + #10GW IN 1"C	
60A-3P	4#4 + #10GW IN 1-1/4"C	
CONTRACTOR INSTRUCTIONS FOR USING THIS SCHEDULE:		
1. THIS SCHEDULE IS INTENDED TO PROVIDE BRANCH CIRCUIT CONDUIT AND WIRE SIZE IF NOT SPECIFICALLY CALLED OUT IN PANELBOARD SCHEDULE, SHEET KEYNOTE, OR FOLLOWING PRESENTATION CONVENTIONS SHOWN ON THE ELECTRICAL LEGEND SHEET.		
2. HOW TO USE: SELECT BRANCH CIRCUIT CONDUIT AND WIRE SIZE BY FIRST DETERMINING SYSTEM VOLTAGE, POLE AND WIRE CONFIGURATION AND SECOND BY CIRCUIT BREAKER SIZE.		
3. CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE AS REQUIRED BY SPECIFICATIONS FOR MAXIMUM VOLTAGE DROP OF 3% FROM BRANCH CIRCUIT PANEL TO LAST DEVICE ON CIRCUIT BASED ON ACTUAL CONDUIT ROUTE.		
4. COMPLETE CIRCUITING OF INDIVIDUAL ELECTRICAL DEVICES TO HOMERUN USING WIRE AND RACEWAY SIZES INDICATED ON SCHEDULE.		
5. CONDUIT SIZES SHOWN ABOVE ARE THE MINIMUM SIZE TO BE USED. CONDUITS WITH CONDUCTORS FOR MULTIPLE BRANCH CIRCUIT RUNS SHALL CONFORM TO BOTH THE ABOVE MINIMUM SIZE LISTED AND TO CONDUIT FILL REQUIREMENTS OF ANNEX C OF THE NEC.		

RX PANEL BENNER				BUS AMPACITY: 200 A				MOUNTING: SURFACE						
				MAIN TYPE: 200 A MCB				SECTIONS: 1						
SERVICE TYPE: NORMAL				SERVICE: 120/240 VOLTS, 1 PHASE, 3 WIRE				ENCLOSURE: NEMA 1						
				MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS				LOCATION: CELLAR 001						
MANUFACTURER: SQUARE-D				TYPE: Q0C40U										
CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT	
1	RANGE	2	50		0.00	0.00				20	1	SPARE	2	
3														4
5														6
7	DRYER	2	30			--				--	1	SPACE	8	
9														10
11	HOT WATER HEATER	2	20		0.00	--				20	1	A/C LIVING ROOM	12	
13														14
15	REC: KITCHEN	1	20		0.00	--				--	1	SPACE	16	
17	REC: BASEMENT STEPS POST	1	20				0.00	--		--	1	SPACE	18	
19	LTG: KIT/UPST BATH/MASTER/SEW	1	15		0.00	--				--	1	SPACE	20	
21	WELL PUMP DNSTAIRS BATHRM	1	15				0.00	--		--	1	SPACE	22	
23	LTG: HALL/OUTSIDE/BEDRM/FOYER	1	15		0.00	--				--	1	SPACE	24	
25	REC: BEDROOMS/FAMILY RM	1	15				0.00	--		--	1	SPACE	26	
27	FURNACE	1	20		0.00	--				--	1	SPACE	28	
29	SUMP PUMP	1	20				0.00	--		--	1	SPACE	30	
31	SPACE	1	--		--	--				--	1	SPACE	32	
33	SPACE	1	--				--	--		--	1	SPACE	34	
35	SPACE	1	--		--	--				--	1	SPACE	36	
37	SPACE	1	--		--	--				--	1	SPACE	38	
39	SPACE	1	--				--	--		--	1	SPACE	40	
PHASE LOAD:					0.00 KVA		0.00 KVA							
PHASE AMPS:					0 A		0 A							
PANEL TOTALS					<input checked="" type="checkbox"/> GROUND BUS					AUXILIARIES:				
CONNECTED LOAD: 0.00 KVA DEMAND LOAD: 0.00 KVA DEMAND AMPS: 0 A					<input checked="" type="checkbox"/> SERVICE ENTRANCE LABEL					a AFCI BREAKER				
					<input type="checkbox"/> INTEGRAL SPD/TVSS					b GFCI BREAKER (5mA)				
					<input type="checkbox"/> 200% NEUTRAL BUS & LUGS					c GFEP BREAKER (30mA)				
					<input type="checkbox"/> ISOLATED GROUND BUS					d SHUNT TRIP BREAKER				
					<input type="checkbox"/> FEED THROUGH LUGS					e HANDLE PADLOCK				
										f HANDLE CLAMP				
										g RED BREAKER LOCKOUT				

PANEL BEN				BUS AMPACITY: 200 A MAIN TYPE: 200 A MCB SERVICE: 120/240 VOLTS, 1 PHASE, 3 WIRE MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS				MOUNTING: SURFACE SECTIONS: 1 ENCLOSURE: NEMA 1 LOCATION: CELLAR 001					
SERVICE TYPE: NORMAL FED FROM:													
CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	REC: CELLAR	1	20		0.36	0.18				20	1	REC: LAUNDRY.TOLET	2
3	REC: LIVING ROOM	1	20				1.08	0.36		20	1	REC: EXTERIOR	4
5	REC: KITCHEN GENERAL	1	20		0.54	1.08				20	1	REC: HALL/DINING ROOM	6
7	REC: KITCHEN COUNTER	1	20				0.36	0.36		20	1	REC: HALLWAY	8
9	REC: KITCHEN COUNTER/ISLAND	1	20		0.36	1.08				20	1	REC: BEDROOM 1	10
11	REC: KITCHEN REFRIG	1	20				0.18	1.26		20	1	REC: BEDROOM 2	12
13	REC: KITCHEN RANGE	2	50		2.50	1.26				20	1	REC: BEDROOM 3	14
15						2.50	0.36	20	1	REC: HALL	16		
17	REC: KITCHEN DISHWASHER	1	20		1.00	0.36				20	1	REC: BATHROOMS	18
19	REC: WASHER	1	20				1.18	0.18		20	1	REC: ATTIC	20
21	REC: DRYER	2	30		2.50	2.00				25	2	MECH: DWH-1	22
23							2.50	2.00				24	
25	MECH: AHU-1	2	15		0.47	0.70				15	1	MECH: EF-1	26
27							0.47	0.70	15	1	MECH: EF-2	28	
29	MECH: AHU-2	2	15		0.63	0.14				15	1	MECH: EF-3	30
31							0.63	0.14	15	1	MECH: EF-4	32	
33	MECH: ACCU-1	2	35		2.80	0.11				20	1	LTG: BASEMENT	34
35							2.80	0.24	20	1	LTG: FIRST FLOOR+PORCH	36	
37	MECH: ACCU-2	2	35		2.80	0.00				20	1	SPARE	38
39							2.80	0.25	20	1	LTG: SECOND FLOOR	40	
41	FIRE ALARM CONTROL PANEL	1	20	g	0.20	0.00				20	1	SPARE	42
43	REC: CELLAR PUMPS	1	20				0.36	0.04		20	1	LTG: ATTIC	44
45	SECURITY PANEL	1	20		0.10	0.00				20	1	SPARE	46
47	SPARE	1	20				0.00	0.70		20	1	MECH: EF-5	48
49	SPARE	1	20		0.00	--				--	1	SPACE	50
51	SURGE PROTECTIVE DEVICE	2	30				0.00	--		--	1	SPACE	52
53						0.00	--		--	1	SPACE	54	
PHASE LOAD:					21.16 kVA		21.44 kVA						
PHASE AMPS:					176 A		179 A						
PANEL TOTALS					<input checked="" type="checkbox"/> GROUND BUS <input checked="" type="checkbox"/> SERVICE ENTRANCE LABEL <input type="checkbox"/> INTEGRAL SPD/TVSS <input type="checkbox"/> 200% NEUTRAL BUS & LUGS <input type="checkbox"/> ISOLATED GROUND BUS <input type="checkbox"/> FEED THROUGH LUGS					AUXILIARIES: a AFCI BREAKER b GFCI BREAKER (5mA) c GFEP BREAKER (30mA) d SHUNT TRIP BREAKER e HANDLE PADLOCK f HANDLE CLAMP g RED BREAKER LOCKOUT			
CONNECTED LOAD: 42.60 kVA DEMAND LOAD: 41.65 kVA DEMAND AMPS: 174 A													

ISSUED FOR BID

A/E FIRM -- P15PC00037

PRIME/ARCH:
GWGO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

E8.3

TITLE OF SHEET

PANELBOARD
SCHEDULES

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

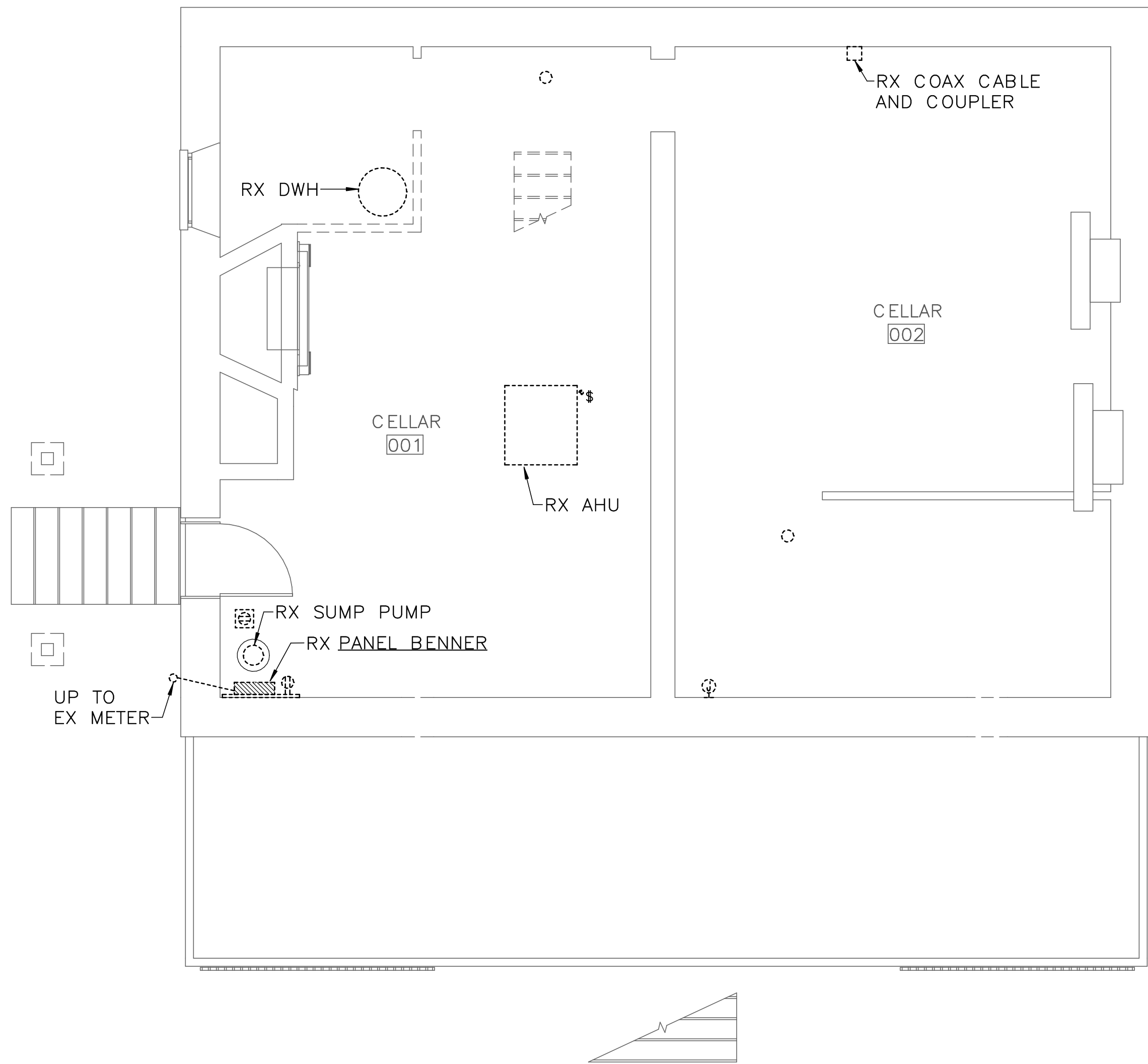
PMIS/PKG NO.

257363

SHEET

85

OF 95

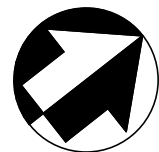


1 CELLAR — ELECTRICAL DEMOLITION
ED1.0 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (-----) INDICATES EXISTING WORK TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
- D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SCALE (A) 4 0 4 8
SCALE OF FEET



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
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CS DAVIDSON
GETTYSBURG, PA

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SGH
WASHINGTON, DC

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HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

ED1.0

TITLE OF SHEET

CELLAR — ELECTRICAL
DEMOLITION

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

PMIS/PKG NO.

257363





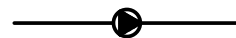

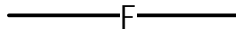
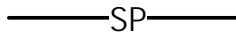
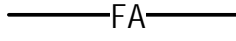


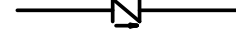



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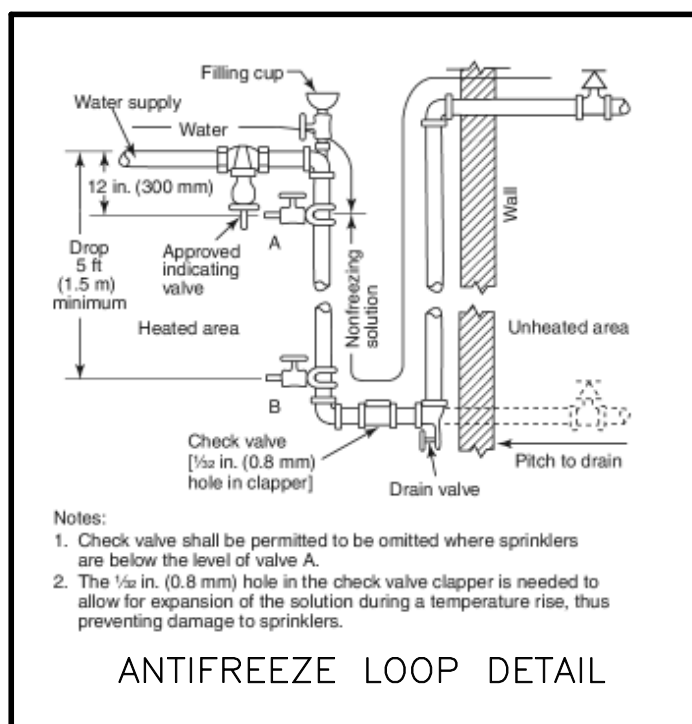
68 OF 95

APPROVED SPRINKLER SYSTEM DESIGN CRITERIA FOR HOUSES (APPLICABLE TO ALL FIRE PROTECTION DRAWINGS)

1. COMPLY WITH THE LATEST EDITION OF NFPA 13D, SPRINKLER SYSTEMS IN ONE- AND TWO-FAMILY DWELLINGS AND MANUFACTURED HOMES AND AS MODIFIED HEREIN.
2. COMPLY WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (NATIONAL PARK SERVICE). THE SYSTEM BASIS OF DESIGN HEREIN IS PER THE DIRECTION & APPROVAL OF THE NATIONAL PARK SERVICE SAFETY ENGINEER.
3. PROVIDE SPRINKLER PROTECTION THROUGHOUT ALL BASEMENTS, ATTICS, CRAWL SPACES, KITCHENS, LIVING ROOMS, BATHROOMS, BEDROOMS, EGRESS STAIRS, SUMMER KITCHENS AND OTHER SPACES AS INDICATED ON THE DRAWINGS.
4. ADJUST OR SELECT PIPE SIZES AND SPRINKLER 'K' FACTORS AS REQUIRED TO PROVIDE A MINIMUM WATER DURATION OF NOT LESS THAN 10 MINUTES. HYDRAULICALLY CALCULATE SYSTEM DEMAND BASED ON BOTH (1) AND (2) SPRINKLER HEADS FLOWING AS REQUIRED BY NFPA 13D. BALANCE TOTAL DEMAND FLOWS AS NEAR AS PRACTICAL OF ALL FLOORS SO AS NOT TO EXCEED THE MINIMUM 10 MINUTE SUPPLY DURATION.
5. DESIGN SYSTEMS TO OPERATE ON A CONSTANT SYSTEM TARGET PRESSURE OF 32 PSIG OR LESS. WHEN NOT PRACTICAL THE MAXIMUM ACCEPTABLE SYSTEM DESIGN PRESSURE SHALL NOT EXCEED 35 PSI.
6. VERIFY EXISTING TANK IS APPROPRIATE FOR THE STRUCTURE. IF A NEW TANK IS NECESSARY, VERIFY WITH FIELD MEASUREMENTS THAT THE SELECTED TANK CONFIGURATION WILL FIT INTO THE STRUCTURE PRIOR TO ORDERING THE TANKS. ADJUST THE TANK CONFIGURATION AS REQUIRED.
7. ALL VALVES CONTROLLING THE SUPPLY OF WATER TO THE SPRINKLER HEADS SHALL BE EQUIPPED WITH TAMPER SWITCHES.
8. THE SPACING AND INSTALLATION OF SPRINKLERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13D OR IN ACCORDANCE WITH THE MANUFACTURERS LISTING FOR SMOOTH AND SLOPED CEILINGS. STANDARD SPRAY TYPE SPRINKLERS MAY BE USED IN ATTICS UNDER SLOPED ROOFS.
9. PROVIDE DRAINS AT ALL SYSTEM LOW POINTS OR TRAPPED SECTIONS OF PIPING WHETHER SHOWN ON THE DRAWINGS OR NOT.
10. RUN PIPING BETWEEN BEAMS, RAFTERS OR JOISTS. DO NOT PENETRATE BEAMS, RAFTERS OR JOISTS UNLESS INDICATED ON THE DRAWINGS OR APPROVED BY THE OWNERS REPRESENTATIVE.
11. ANTIFREEZE WHERE INDICATED SHALL BE PROPYLENE GLYCOL AT 60% WATER AND 40% GLYCOL. ANTIFREEZE PIPING IS DESIGNATED BY THE LINE SYMBOL "FA". ANTIFREEZE LOOPS ARE INDICATED ON THE DRAWINGS BY THE SYMBOL "AFLP". ALL PIPING DOWNSTREAM OF THE LOOP IS AN ANTIFREEZE SYSTEM. ALL UNHEATED/UNOCCUPIED STRUCTURES SHALL BE ENTIRELY OF THE ANTIFREEZE SYSTEM TYPE INCLUDING CONTENTS OF THE TANK. UNOCCUPIED STRUCTURES ARE IDENTIFIED IN SPEC SECTION 01110.
12. USE SPRINKLERS WITH THE FOLLOWING 'K' FACTORS: K=3.0, K=3.5, K=3.8, K=4.2, K=4.3, K=5.5, K=5.6. FLOW RATES AND PRESSURE SHALL BE IN ACCORDANCE WITH NFPA 13D OR THE MANUFACTURERS UL LISTING.

FIRE PROTECTION LEGEND
(APPLICABLE TO ALL FIRE PROTECTION DRAWINGS)

SYMBOL	DESCRIPTION
	CONNECT TO EXISTING
	END POINT OF REMOVAL OF EXISTING
	PLAN/ SECTION DESIGNATION TOP - PLAN/ SECTION REFERENCE, BOTTOM - REFERENCED DRAWING
	CAP (PIPE OR DUCT)
	CHECK VALVE
	SHUTOFF VALVE
	FIRE LINE
	SPRINKLER PIPING
	ANTIFREEZE SPRINKLER PIPING
	SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	FIRE SERVICE CHECK VALVE
	FLOW ALARM SWITCH
	SUPERVISED VALVE
	FIRE DEPARTMENT CONNECTION



FIRE PROTECTION ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFLP	ANTIFREEZE LOOP
APPROX	APPROXIMATE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ELEV	ELEVATION
F	FIRE/FIRE LINE
FA	ANTIFREEZE SPRINKLER PIPING
FDC	FIRE DEPARTMENT CONNECTION
FP	FIRE PROTECTION
GPM	GALLONS PER MINUTE
H	HEIGHT/HIGH
IN	INCH/INCHES
L	LENGTH
NTS	NOT TO SCALE
PSI	PRESSURE--POUNDS PER SQUARE INCH
SF	SQUARE FEET/SQUARE FOOT
SP	SPRINKLER PIPING
TYP	TYPICAL

GENERAL FIRE PROTECTION NOTES
(APPLICABLE TO ALL FIRE PROTECTION DRAWINGS)

1. PROVIDE SPRINKLER SYSTEM THROUGHOUT THE BUILDING AS INDICATED. AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN FULL ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13D, IBC, LOCAL AND STATE AUTHORITIES AND THE SPECIFICATIONS.
2. FULLY COORDINATED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS AND MANUFACTURER'S DATA SHEETS SHALL BE SUBMITTED TO CONTRACT OFFICER REPRESENTATIVE (COR) FOR APPROVAL BEFORE PURCHASE AND INSTALLATION. FINAL DESIGN OF THE SYSTEMS SHALL BE COORDINATED WITH FIELD CONDITIONS, THE COR AND AVAILABLE WATER SUPPLY.
3. SPRINKLER DESIGN SHALL BE LIGHT HAZARD OCCUPANCY UTILIZING THE PRESSURE TANK SYSTEM.
4. CONTRACTOR SHALL PROVIDE ALL NECESSARY PARTS AND ACCESSORIES EVEN IF THE PARTS AND ACCESSORIES ARE NOT SPECIFICALLY MENTIONED OR SHOWN HEREIN TO MAKE A COMPLETE SYSTEM.
5. THE SPRINKLER SYSTEM PIPING SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH NFPA 13. CONTRACTOR SHALL REUSE OR MODIFY EXISTING PIPING SHOWN ON PLANS AS MUCH AS POSSIBLE, UNLESS OTHERWISE NOTED.
6. PIPE HANGERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13D. ALL HANGER MATERIALS SHALL BE UL LISTED AND FM APPROVED.
7. FLUSHING CONNECTIONS SHALL BE PROVIDED ON THE SPRINKLER SYSTEM PIPING PER NFPA 13D.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS. ALL ITEMS SHALL BE INSTALLED BY ON-THE-JOB MEASUREMENTS AND COORDINATED WITH ALL OTHER TRADES. UNDER NO CIRCUMSTANCES SHALL THE DRAWINGS BE SCALED.
9. ALL FITTINGS SHALL BE 175 WWP.
10. APPROVED IDENTIFICATION SIGNS FOR ALL SYSTEM COMPONENTS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13D.
11. ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PATCHED WITH APPROVED FIRE STOPPING MATERIAL.
12. ALL EXPOSED PIPING SHALL BE INSTALLED TO MAXIMIZE AESTHETICS AND MINIMIZE OBSTRUCTION TO OCCUPANTS. PIPING AND VALVES SHALL BE INSTALLED TIGHT TO CEILINGS AND WALLS AS MUCH AS PRACTICAL. LEAVE SUFFICIENT SPACE TO LIFT ACCESSIBLE ACOUSTICAL TILES. STAY CLEAR OF ACCESS DOORS. ALL PIPING SHALL BE COORDINATED WITH OTHER TRADES AND THE COR, AND APPROVED BY THE COR.
13. SPRINKLERS INSTALLED IN CEILINGS OF FINISHED AREAS SHALL BE SYMMETRICAL IN RELATION TO CEILING SYSTEMS COMPONENTS AND COORDINATED WITH OTHER EQUIPMENT IN THE CEILING. SUBMIT LAYOUTS TO THE COR FOR APPROVAL.
14. SPRINKLER HEADS SHALL BE GENERALLY INSTALLED IN ACCORDANCE WITH NFPA EXCEPT ADDITIONAL HEADS SHALL BE PROVIDED TO SATISFY REQUIREMENTS OF SYMMETRY OR AESTHETICS. CONTRACTOR SHALL UTILIZE SPRINKLER HEADS AVAILABLE ON SITE, UNLESS OTHERWISE INDICATED.
15. PROVIDE SPRINKLER COVERAGE AROUND FIXED OBSTRUCTIONS, SUCH AS LARGE DUCTS, FLOATING CEILINGS, ETC. IN ACCORDANCE WITH NFPA 13D.
16. GRADE PIPE AND LOW POINT DRAINS PER NFPA.
17. THE DOCUMENT SET HAS BEEN DEVELOPED WITH THE APPROACH THAT ITEMS AND MATERIALS ARE NEW UNLESS OTHERWISE NOTED AS EXISTING.
18. THE CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE PIPE AND SPRINKLER LOCATIONS AS NECESSARY TO SUIT ACTUAL FIELD CONDITIONS AT NO ADDITIONAL COST TO THE GOVERNMENT.
19. THE CONTRACTOR SHALL HYDRAULICALLY CALCULATE THE SYSTEM AND SHALL MAKE ADJUSTMENTS IN PIPE LOCATION AND SIZES AS REQUIRED TO MEET NFPA, AND THE APPROVED SPRINKLER SYSTEM DESIGN CRITERIA AT NO ADDITIONAL COST TO THE GOVERNMENT.
20. THE DRAWINGS INDICATE THE PREFERRED ROUTING OF THE SPRINKLER SYSTEMS. ADJUSTMENTS WILL BE APPROVED DURING SHOP DRAWING REVIEW. MAJOR CHANGES MADE IN THE PIPE NETWORK SHALL BE SUBMITTED TO AND APPROVED BY THE COR PRIOR TO THE CONTRACTOR'S SHOP DRAWING SUBMITTAL.
21. THE DRAWINGS DO NOT INDICATE PATCH AND REPAIRS NECESSARY FOR THE SYSTEM INSTALLATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL PATCHING AND REPAIRS NECESSITY WHETHER INDICATED OR NOT.
22. WALLS AND CEILINGS DISTURBED BY THE NEW WORK SHALL BE PAINTED IN THEIR ENTIRETY TO MATCH EXISTING.
23. THE CONTRACTOR SHALL PAINT ALL EXPOSED PIPING TO MATCH EXISTING WALLS, CEILING, ETC.

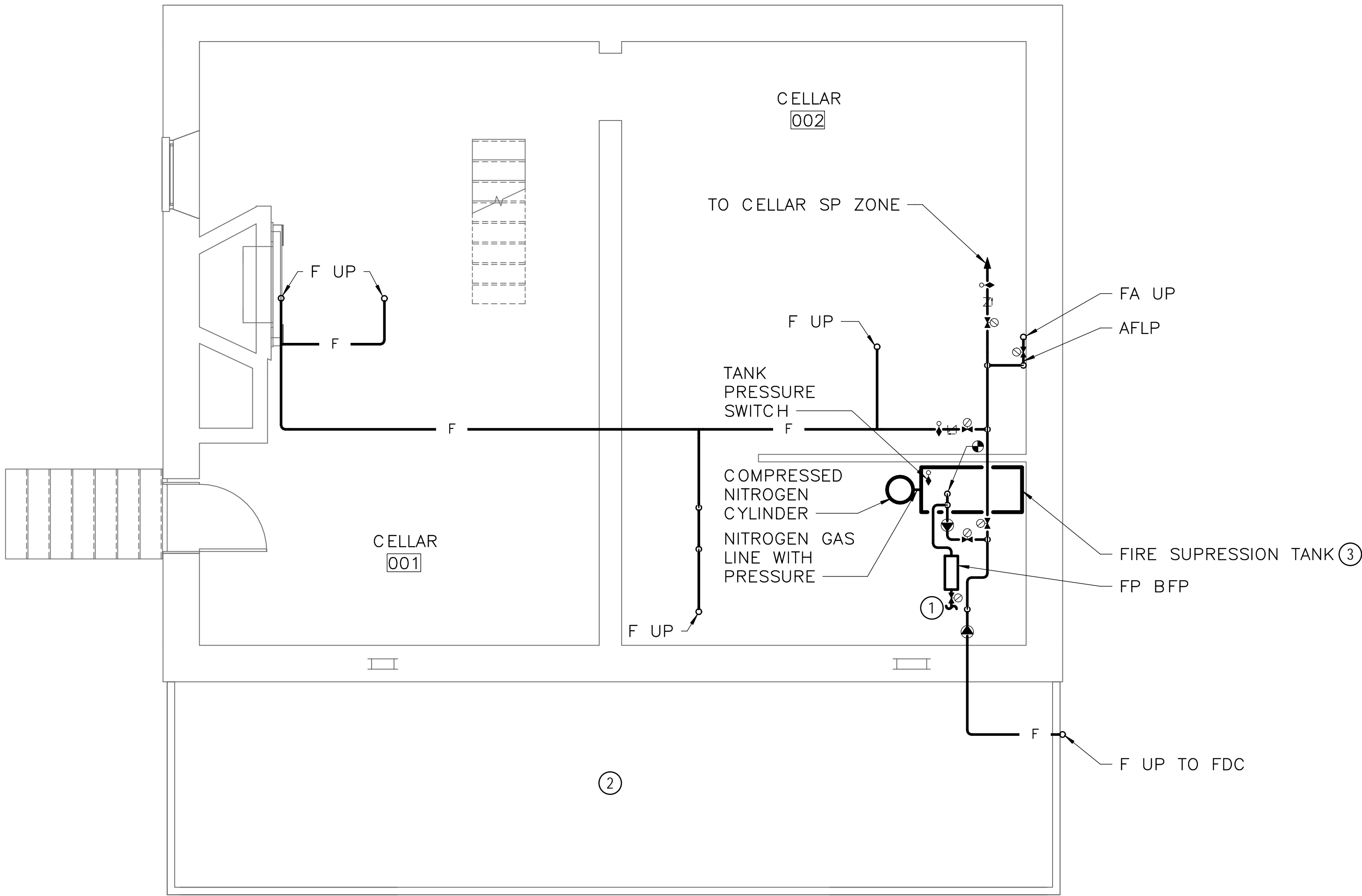
A/E FIRM - P15PC00037				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.	
PRIME/ARCH: GWWG, INC BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	GPZ			FIRE PROTECTION COVER SHEET	305
				CADD:				178321
				GPZ				PMIS/PKG NO.
				TECH. REVIEW:	FP0.0	257363		
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	SRH		SHEET		
				DATE: 02/28/2022	86 OF 95			
						GETTYSBURG NATIONAL MILITARY PARK		

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

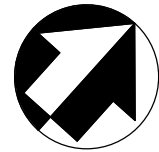
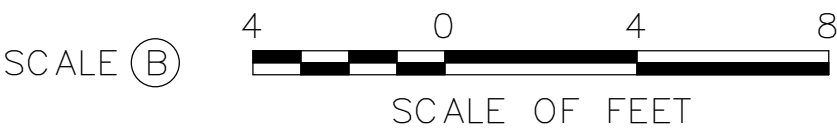
1. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, **—**
2. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.
3. PROVIDE SPRINKLERS AND PIPING AS REQUIRED TO PROVIDE A COMPLETE SPRINKLER SYSTEM. SPRINKLER CONTRACTOR SHALL SIZE SPRINKLER PIPE AND LOCATE SPRINKLER HEADS PER NFPA 13D. CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS FOR SIZING OF SPRINKLER SYSTEM.
4. SPRINKLER CONTRACTOR SHALL ADD ADDITIONAL HEADS AS NECESSARY AND WHERE NOT SHOWN TO PROVIDE COMPLETE SPRINKLER SYSTEM.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- ① SEE DRAWING P1.1 FOR CONTINUATION
- ② PROTECT WITH DRY SPRINKLER ASSEMBLY BENEATH PORCH
- ③ MOUNT ON 4" HOUSKEEPING PAD



1 CELLAR — FIRE PROTECTION — NEW WORK
FP1.1 SCALE (B)



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
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TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

FP1.1

TITLE OF SHEET

CELLAR — NEW WORK
— FIRE PROTECTION

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

PMIS/PKG NO.

257363

SHEET

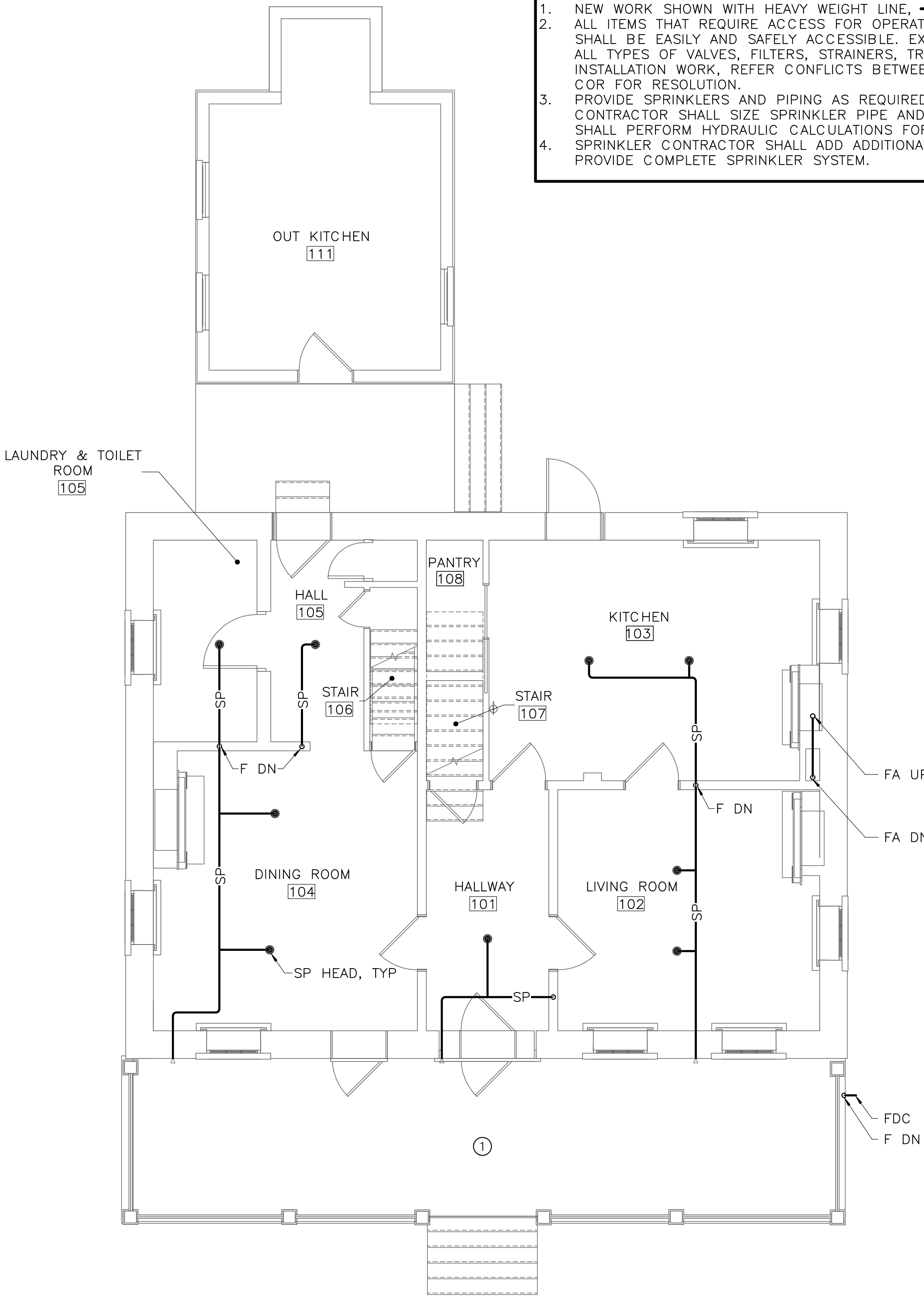
87 OF 95

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, **——**
2. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.
3. PROVIDE SPRINKLERS AND PIPING AS REQUIRED TO PROVIDE A COMPLETE SPRINKLER SYSTEM. SPRINKLER CONTRACTOR SHALL SIZE SPRINKLER PIPE AND LOCATE SPRINKLER HEADS PER NFPA 13D. CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS FOR SIZING OF SPRINKLER SYSTEM.
4. SPRINKLER CONTRACTOR SHALL ADD ADDITIONAL HEADS AS NECESSARY AND WHERE NOT SHOWN TO PROVIDE COMPLETE SPRINKLER SYSTEM.

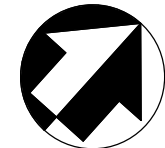
SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- ① PROTECT PORCH WITH SIDEWALL DRY SPRINKLER ASSEMBLY



① FIRST FLOOR – FIRE PROTECTION – NEW WORK
FP1.2 SCALE (B)

SCALE (B) 4 0 4 8
SCALE OF FEET



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

FP1.2

TITLE OF SHEET

FIRST FLOOR – NEW
WORK – FIRE
PROTECTION

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

PMIS/PKG NO.

257363

SHEET

88 OF 95

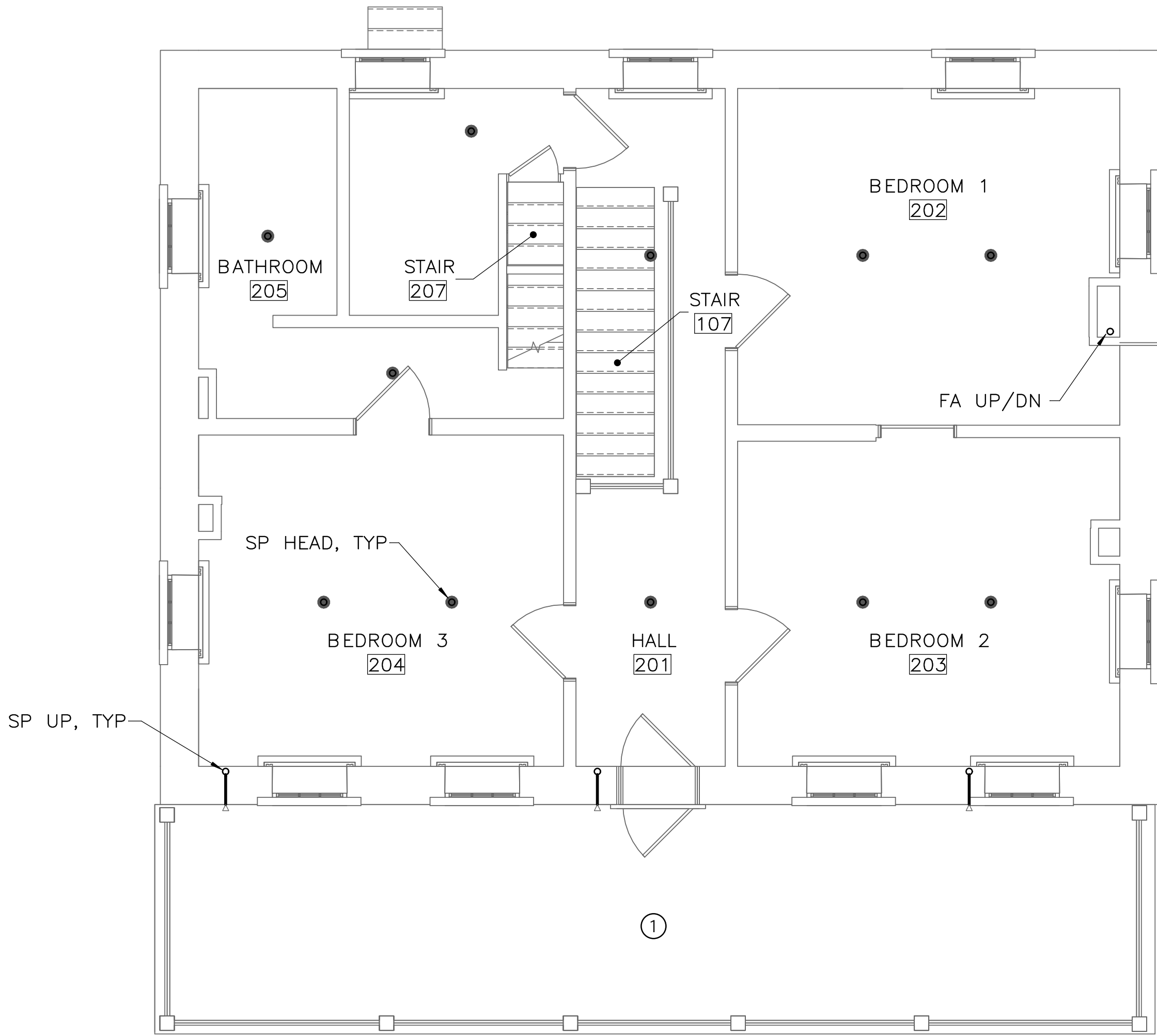
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

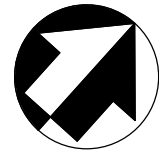
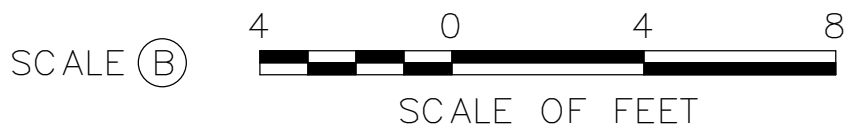
1. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, **——**
2. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.
3. PROVIDE SPRINKLERS AND PIPING AS REQUIRED TO PROVIDE A COMPLETE SPRINKLER SYSTEM. SPRINKLER CONTRACTOR SHALL SIZE SPRINKLER PIPE AND LOCATE SPRINKLER HEADS PER NFPA 13D. CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS FOR SIZING OF SPRINKLER SYSTEM.
4. SPRINKLER CONTRACTOR SHALL ADD ADDITIONAL HEADS AS NECESSARY AND WHERE NOT SHOWN TO PROVIDE COMPLETE SPRINKLER SYSTEM.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- ① PROTECT PORCH WITH SIDEWALL DRY SPRINKLER ASSEMBLY



1 SECOND FLOOR – FIRE PROTECTION – NEW WORK
FP1.3 SCALE (B)



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

FP1.3

TITLE OF SHEET

SECOND FLOOR – NEW
WORK – FIRE
PROTECTION

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305


PMIS/PKG NO.

257363

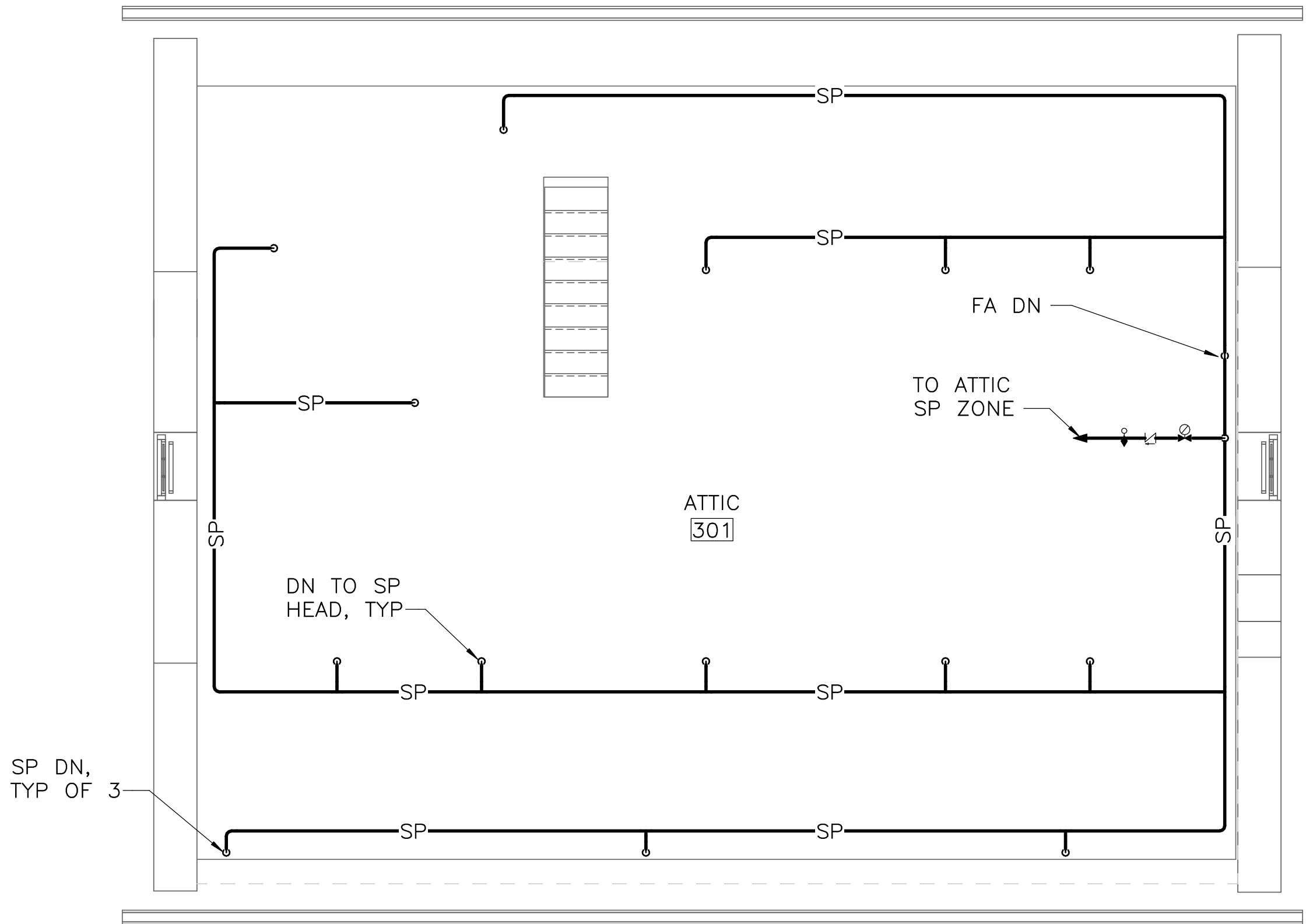
SHEET

89 OF 95

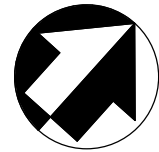
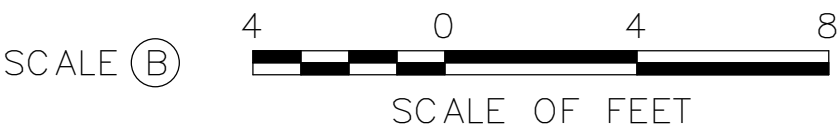
DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, 
2. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DOCUMENTS TO THE COR FOR RESOLUTION.
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4. SPRINKLER CONTRACTOR SHALL ADD ADDITIONAL HEADS AS NECESSARY AND WHERE NOT SHOWN TO PROVIDE COMPLETE SPRINKLER SYSTEM.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)



1 ATTIC — FIRE PROTECTION — NEW WORK
FP1.4 SCALE (B)



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWMO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

GPZ

CADD:

GPZ

TECH. REVIEW:

SRH

DATE:

02/28/2022

SUB SHEET NO.

FP1.4

TITLE OF SHEET

ATTIC — NEW WORK —
FIRE PROTECTION

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305






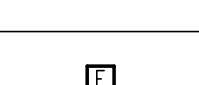


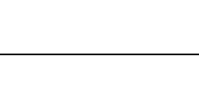




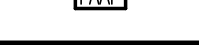
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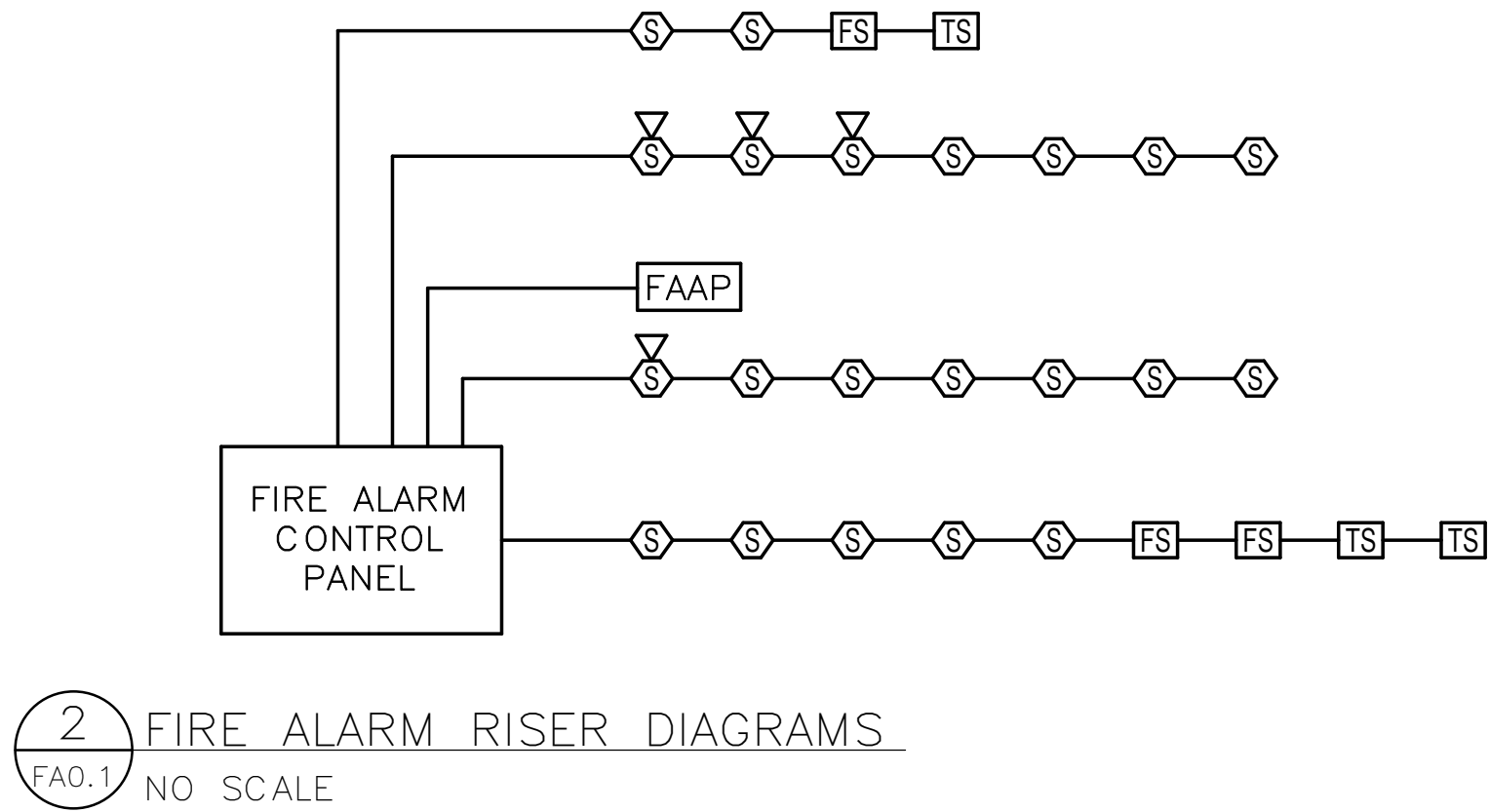
PMIS/PKG NO.

257363

SHEET

90 OF 95

FIRE ALARM LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	FIRE ALARM SYSTEM - SMOKE DETECTOR - AREA (CEILING/WALL MOUNT) SUBSCRIPTS: P: PHOTOELECTRIC TYPE (DEFAULT IF NO SUBSCRIPT INDICATED) I: IONIZATION TYPE BT: BEAM TRANSMITTER TYPE BR: BEAM RECEIVER TYPE IAF: IONIZATION TYPE (RATES FOR 0 - 1000 FPM AIR FLOW) DH: DOOR HOLD RELEASE FUNCTION E: ELEVATOR RECALL FUNCTION SP: STAIR PRESSURIZATION FUNCTION	--/ SEE DETAIL
	FIRE ALARM SYSTEM - SMOKE DETECTOR WITH AUDIBLE BASE (CEILING/WALL MOUNT)	--/ SEE DETAIL
	FIRE ALARM SYSTEM - HEAT DETECTOR (CEILING/WALL MOUNT) SUBSCRIPTS: F: FIXED TEMPERATURE (DEFAULT IF NO SUBSCRIPT INDICATED) R: RATE OF RISE RC: RATE COMPENSATION RF: COMBINATION RATE OF RISE	--/ SEE DETAIL
	CARBON MONOXIDE DETECTOR (CEILING/WALL MOUNT)	--/ SEE DETAIL
	FIRE ALARM SYSTEM - SPRINKLER FLOW DETECTION SWITCH	--
	FIRE ALARM SYSTEM - VALVE WITH TAMPER DETECTION SWITCH	--
	FIRE ALARM SYSTEM - MANUAL PULL STATION	46"
	FIRE ALARM SYSTEM - ADDRESSABLE MODULE	--
	FIRE ALARM SYSTEM - STROBE (CEILING/WALL MOUNT) SUBSCRIPTS: C: CO ALARM NOTIFICATION DEVICE WP: WEATHERPROOF WG: WIRE GUARD EP: EXPLOSION PROOF	--/86"
	FIRE ALARM SYSTEM - SPEAKER/HORN (CEILING/WALL MOUNT) SUBSCRIPTS: C: CO ALARM NOTIFICATION DEVICE WP: WEATHERPROOF WG: WIRE GUARD EP: EXPLOSION PROOF	--/86"
	FIRE ALARM SYSTEM - 520Hz LOW FREQUENCY "MINI-HORN" (CEILING/WALL MOUNT)	--/86"
	FIRE ALARM SYSTEM - SPEAKER/HORN STROBE (CEILING/WALL MOUNT) SUBSCRIPTS: C: CO ALARM NOTIFICATION DEVICE WP: WEATHERPROOF WG: WIRE GUARD EP: EXPLOSION PROOF	--/86"
	FIRE ALARM SYSTEM - FIRE ALARM CONTROL PANEL	78" TO TOP
	FIRE ALARM SYSTEM - FIRE ALARM SYSTEM ANNUNCIATOR PANEL	78" TO TOP



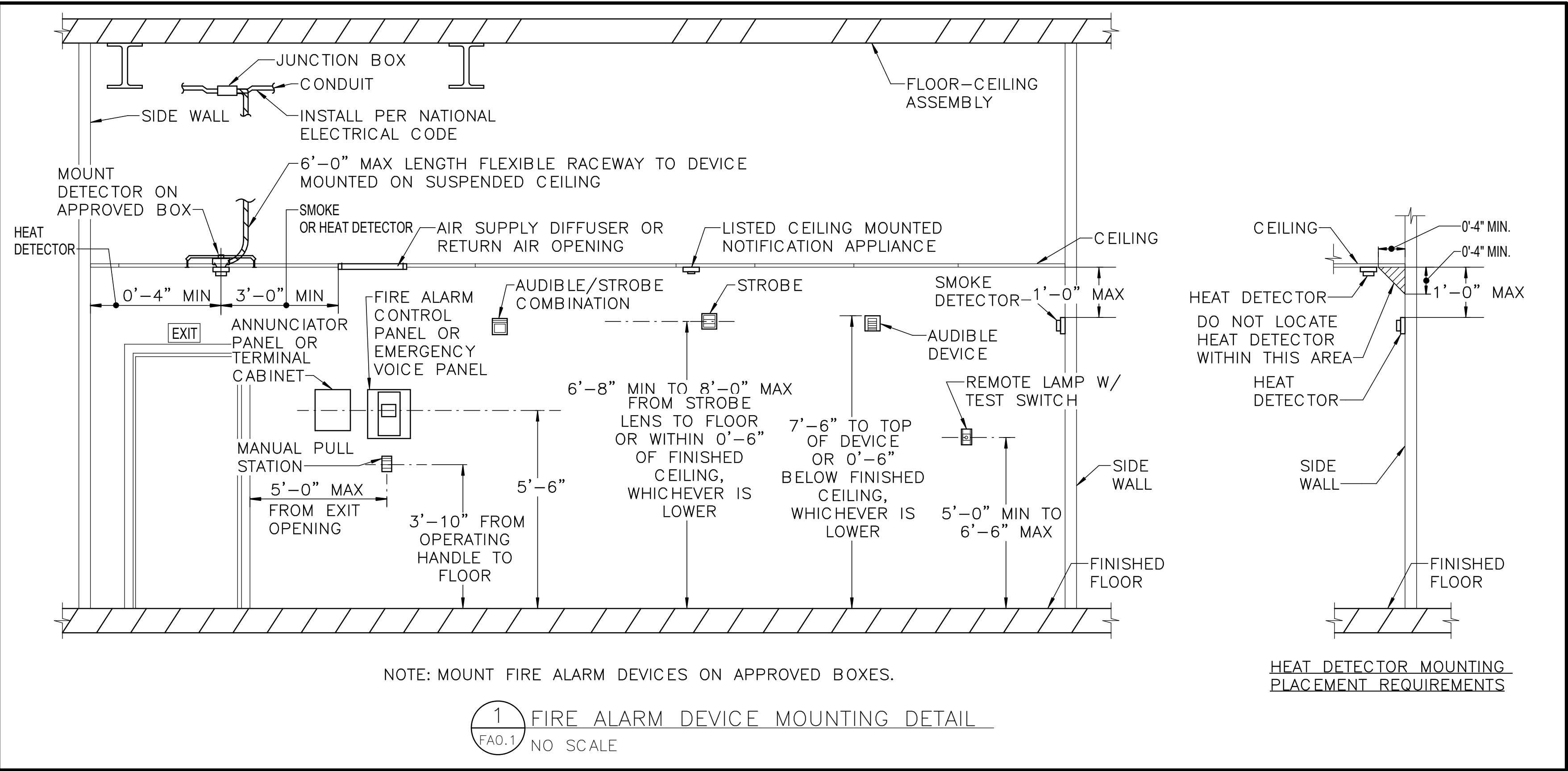
2 FIRE ALARM RISER DIAGRAMS
FAO.1 NO SCALE

NOTES: (APPLICABLE TO FIRE ALARM RISER DIAGRAM ONLY)

1. FIRE ALARM SYSTEM RISER DIAGRAM IS DIAGRAMMATIC. PROVIDE CONDUITS, WIRING, AND SYSTEM COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM IN COMPLIANCE WITH NFPA 70, NFPA 72, NFPA 90A, NFPA 101, IBC, THE LOCAL AUTHORITY HAVING JURISDICTION AND THE CONTRACT DOCUMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF FIRE ALARM DEVICES AND COMPONENTS. INSTALL PULL STATIONS SHOWN ADJACENT TO EXTERIOR DOORS WITHIN 5'-0" HORIZONTALLY OF DOOR OPENINGS. FIELD COORDINATE ACTUAL LOCATION AND SPACING OF INITIATING AND NOTIFICATION DEVICES AND CONDUIT RUNS WITH OTHER WORK INCLUDING BUT NOT LIMITED TO LUMINAIRES, DIFFUSERS, DUCT WORK, WALLS AND CEILINGS.

GENERAL FIRE ALARM NOTES
(APPLICABLE TO ALL FIRE ALARM DRAWINGS)

1. DRAWINGS ARE CONCEPTUAL, INTENDED TO SHOW GENERAL SYSTEM CONFIGURATION AND PERFORMANCE. PREPARE SHOP DRAWINGS AND PROVIDE CONDUITS, WIRING, SYSTEM COMPONENTS AND EQUIPMENT FOR A COMPLETE AND OPERATIONAL SYSTEM IN COMPLIANCE WITH NFPA 70, NFPA 72, NFPA 90A, NFPA 101 IBC, THE AUTHORITY HAVING JURISDICTION AND THE CONTRACT DOCUMENTS.
2. COORDINATE FIRE ALARM WORK WITH LOCAL FIRE MARSHAL, FIRE ALARM PLANS REVIEW, AND FIRE DEPARTMENT INSPECTORS.
3. OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF FIRE ALARM SYSTEM. PROVIDE SHOP DRAWING SUBMITTAL DOCUMENTS TO AUTHORITY HAVING JURISDICTION TO OBTAIN PERMIT. SUBMITTAL MUST INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - A. SCALED FLOOR PLANS WITH ROOM NAMES AND NUMBERS WHICH INDICATE USE OF ALL ROOMS.
 - B. FIRE ALARM DEVICE AND CABLE SYMBOL LEGEND
 - C. FLOOR PLAN LAYOUT SHOWING LOCATIONS OF ALL DEVICES AND CONTROL EQUIPMENT, INCLUDING MOUNTING HEIGHTS OF ALARM INITIATING DEVICES AND NOTIFICATION DEVICES.
 - D. FIRE ALARM CONTROL PANEL AND ANNUNCIATOR LOCATION.
 - E. POWER CONNECTION.
 - F. BATTERY CALCULATIONS.
 - G. VOLTAGE DROP CALCULATIONS FOR NOTIFICATION APPLIANCE CIRCUITS.
 - H. SIZE, TYPE, AND NUMBER OF CONDUCTORS.
 - I. MANUFACTURER'S TECHNICAL DATA SHEETS INCLUDING MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT, DEVICES, AND MATERIALS.
 - J. DETAILS OF CEILING HEIGHT AND CONSTRUCTION.
 - K. INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS.
 - L. FIRE ALARM SYSTEM RISER.
 - M. SEQUENCE OF OPERATIONS INPUT/OUTPUT MATRIX.
 - N. DEVICE TO DEVICE WIRING.
 - O. LOUDNESS AND CANDELA SETTINGS FOR EVERY NOTIFICATION APPLIANCE.
4. FIRE ALARM BRANCH CIRCUIT IDENTIFICATION MUST COMPLY WITH NFPA 70 AND NFPA 72:
PROVIDE APPROVED RED CIRCUIT BREAKER LOCKOUT DEVICE FOR EACH CIRCUIT BREAKER SERVING A FIRE ALARM CIRCUIT.
IDENTIFY EACH FIRE ALARM CIRCUIT WITH A RED PHENOLIC NAMEPLATE WITH WHITE LETTERING. NAMEPLATE MUST READ "FIRE ALARM CIRCUIT". FASTEN NAMEPLATE IN PANELBOARD ADJACENT TO CIRCUIT BREAKER.
5. IDENTIFY POWER SOURCE AND LOCATION OF BRANCH CIRCUIT DISCONNECTING SERVING FIRE ALARM EQUIPMENT. FASTEN PHENOLIC NAMEPLATE TO FIRE ALARM SYSTEM PANEL(S) INDICATING LOCATION OF DEDICATED BRANCH CIRCUIT DISCONNECTING MEANS. NAMEPLATE MUST READ "THIS PANEL FED FROM PANEL _____, CIRCUIT NO. _____, LOCATED IN _____."
6. IDENTIFY EACH FIRE ALARM DEVICE AND EQUIPMENT ENCLOSURE. DEVICE LABELS MUST INDICATE ADDRESS AND ZONE.
7. IDENTIFY FIRE ALARM CIRCUITS AT TERMINAL AND JUNCTION LOCATIONS WITH PERMANENT LABELS. PAINT FIRE ALARM CIRCUIT JUNCTION BOX COVERS RED AND LABEL COVER "FIRE ALARM". MARK CONDUITS CARRYING FIRE ALARM SYSTEM CIRCUITS WITH RED STRIPE EVERY 10 FEET.
8. FIRE ALARM SYSTEM AUDIBLE NOTIFICATION APPLIANCES INSTALLED IN DWELLING UNITS MUST PRODUCE A LOW FREQUENCY ALARM SIGNAL HAVING A FUNDAMENTAL FREQUENCY OF 520 HZ +/- 10 PERCENT. THESE APPLIANCES MUST BE LISTED AND LABELED FOR PRODUCING THE LOW FREQUENCY WAVEFORM.



NOTE: MOUNT FIRE ALARM DEVICES ON APPROVED BOXES.

1 FIRE ALARM DEVICE MOUNTING DETAIL
FAO.1 NO SCALE

ISSUED FOR BID

A/E FIRM -- P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JUST

DATE:

02/28/2022

SUB SHEET NO.

FAO.1

TITLE OF SHEET

FIRE ALARM COVER
SHEET

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

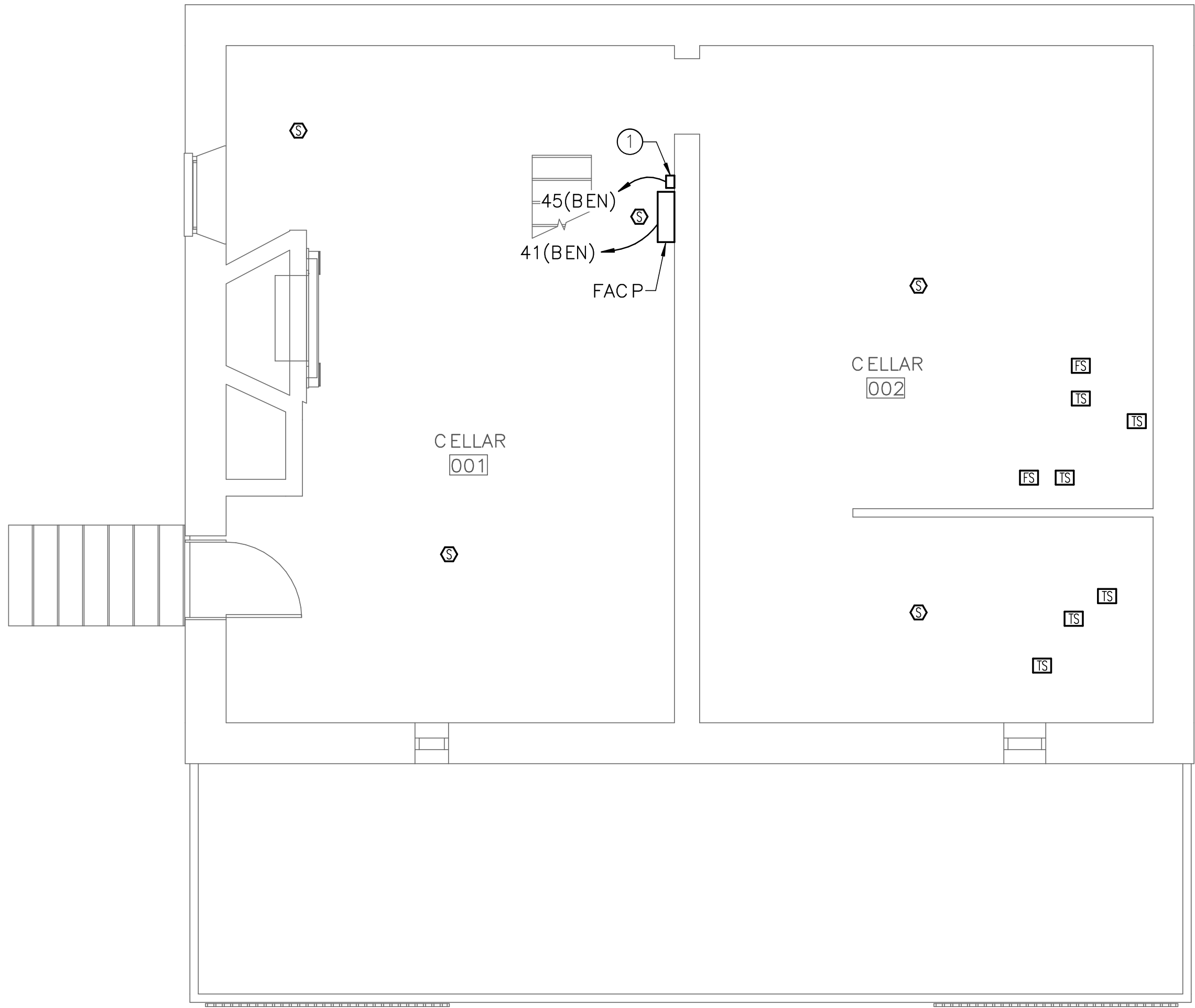
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PMIS/PKG NO.

257363

SHEET

91 OF 95



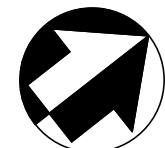
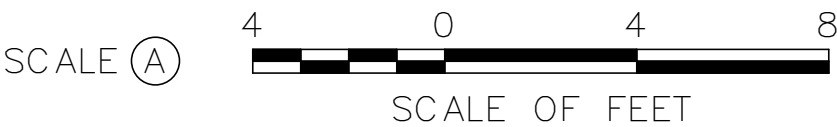
1 CELLAR — FIRE ALARM NEW WORK
FA1.0 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
- D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- 1 SECURITY PANEL.



ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
HENRY ADAMS
TOWSON, MD

LANDSCAPE:
CS DAVIDSON
GETTYSBURG, PA

STRUCTURAL:
SGH
WASHINGTON, DC

ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

FA1.0

TITLE OF SHEET
CELLAR — FIRE ALARM
NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

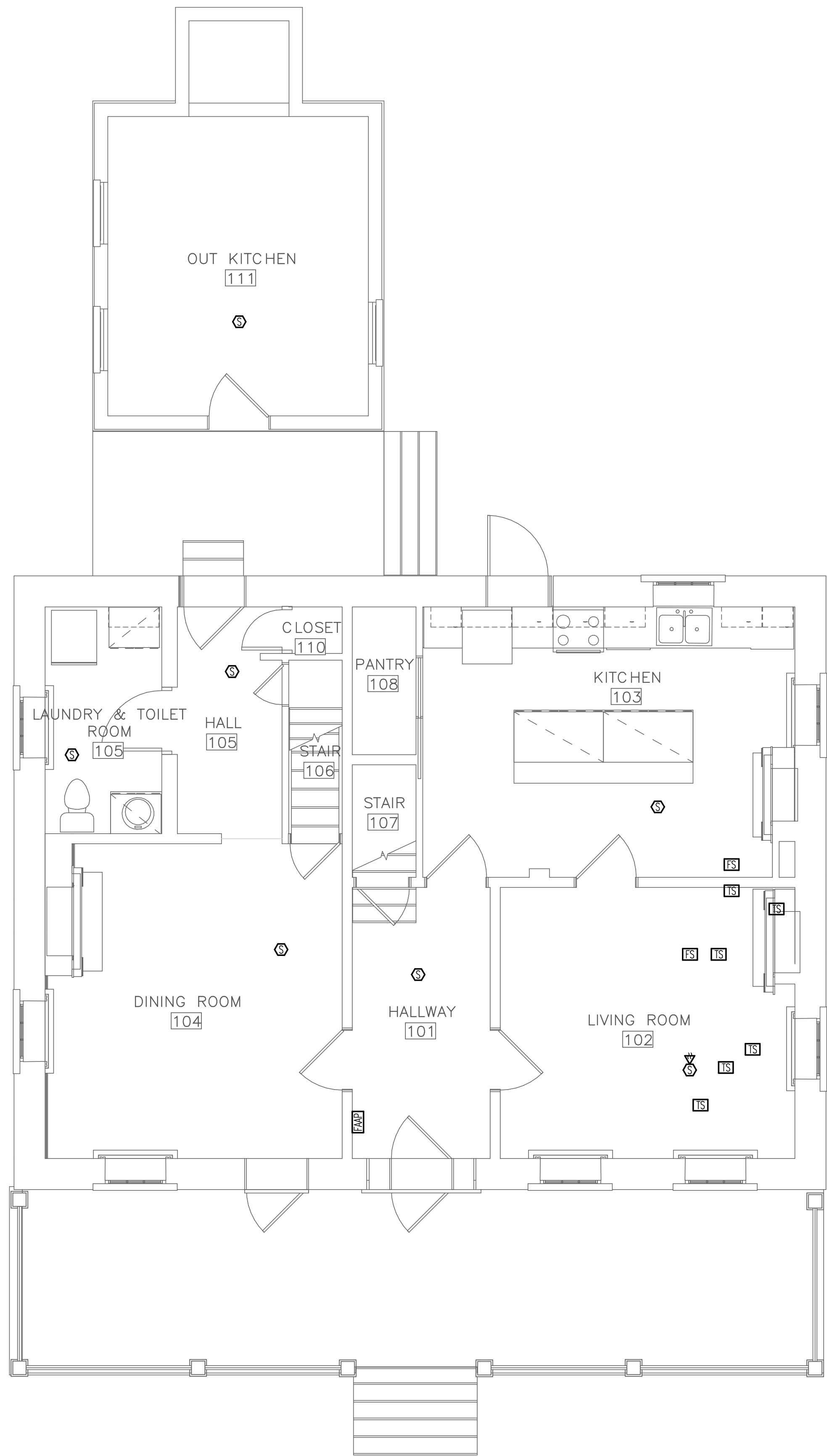
DRAWING NO.

305
178321

PMIS/PKG NO.
257363

SHEET

92 OF 95

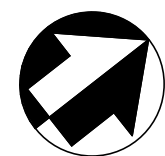
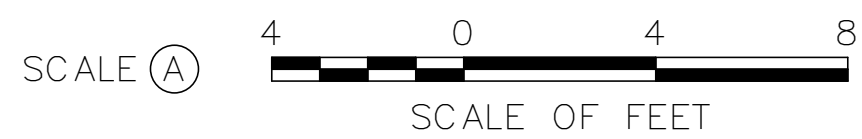


1 FIRST FLOOR — FIRE ALARM NEW WORK
FA1.1 SCALE (A)

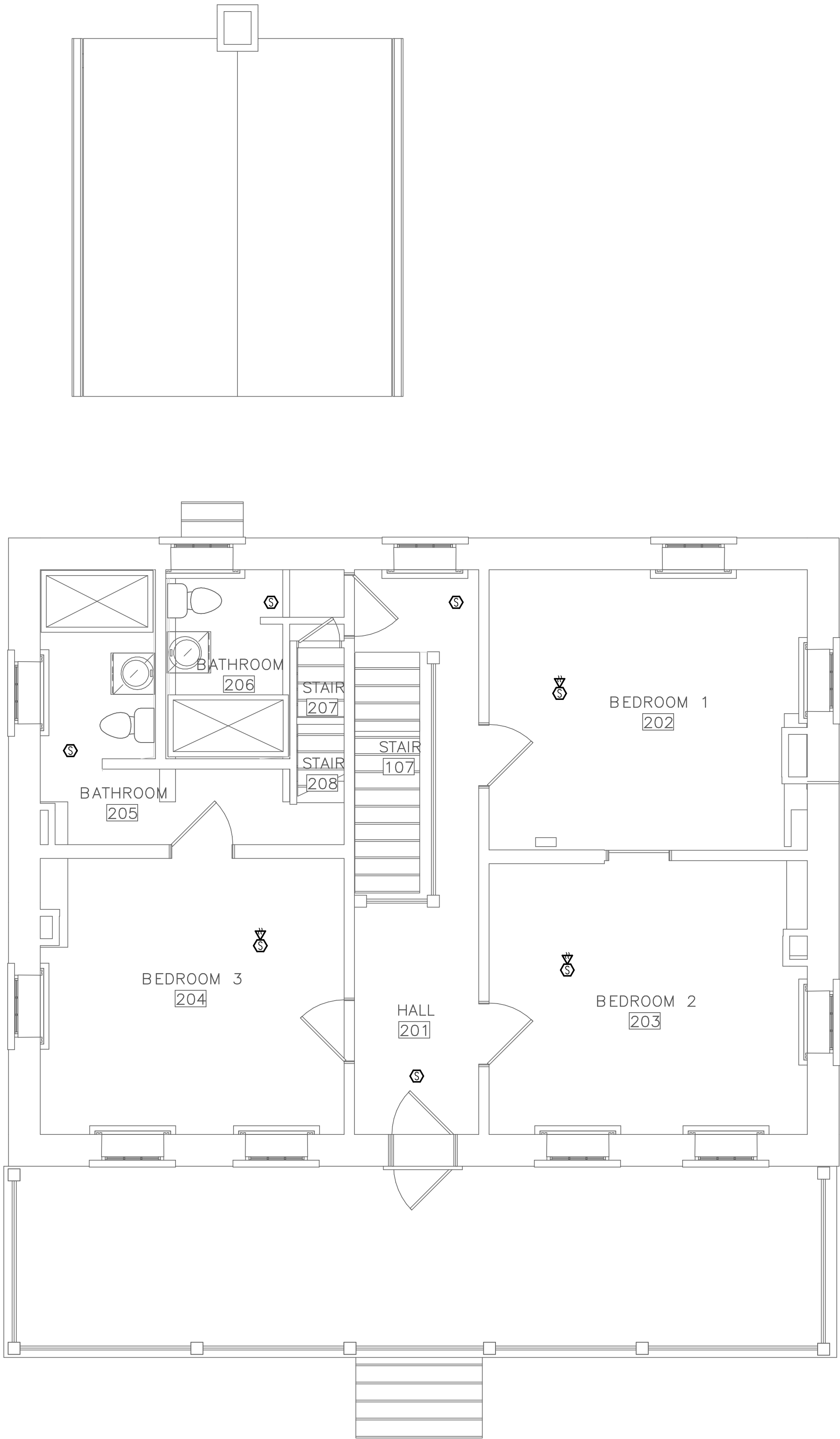
DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.

D.2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.



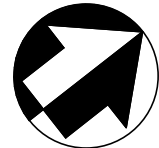
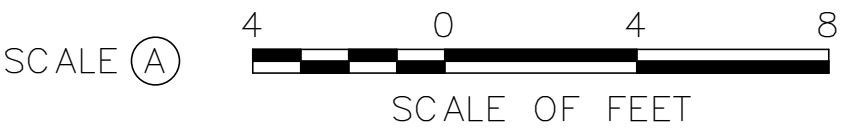
ISSUED FOR BID					SUB SHEET NO. FA1.1	TITLE OF SHEET FIRST FLOOR — FIRE ALARM NEW WORK	DRAWING NO. 305 178321
A/E FIRM — P15PC00037				JLW			
PRIME/ARCH: GWWO, INC. BALTIMORE, MD				CADD: JLW			
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA				TECH. REVIEW: JST			
CIVIL: CS DAVIDSON GETTYSBURG, PA				DATE: 02/28/2022	GETTYSBURG NATIONAL MILITARY PARK	PMIS/PKG NO. 257363	
MECHANICAL: HENRY ADAMS TOWSON, MD						SHEET	
PLUMBING: HENRY ADAMS TOWSON, MD						93 OF 95	
FIRE PROTECTION: HENRY ADAMS TOWSON, MD							



1 SECOND FLOOR – FIRE ALARM NEW WORK
FA1.2 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
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ISSUED FOR BID

A/E FIRM - P15PC00037

PRIME/ARCH:
GWWO, INC.
BALTIMORE, MD

CIVIL:
CS DAVIDSON
GETTYSBURG, PA

MECHANICAL:
HENRY ADAMS
TOWSON, MD

PLUMBING:
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ELECTRICAL:
HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

FA1.2

TITLE OF SHEET

SECOND FLOOR – FIRE
ALARM NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

PMIS/PKG NO.

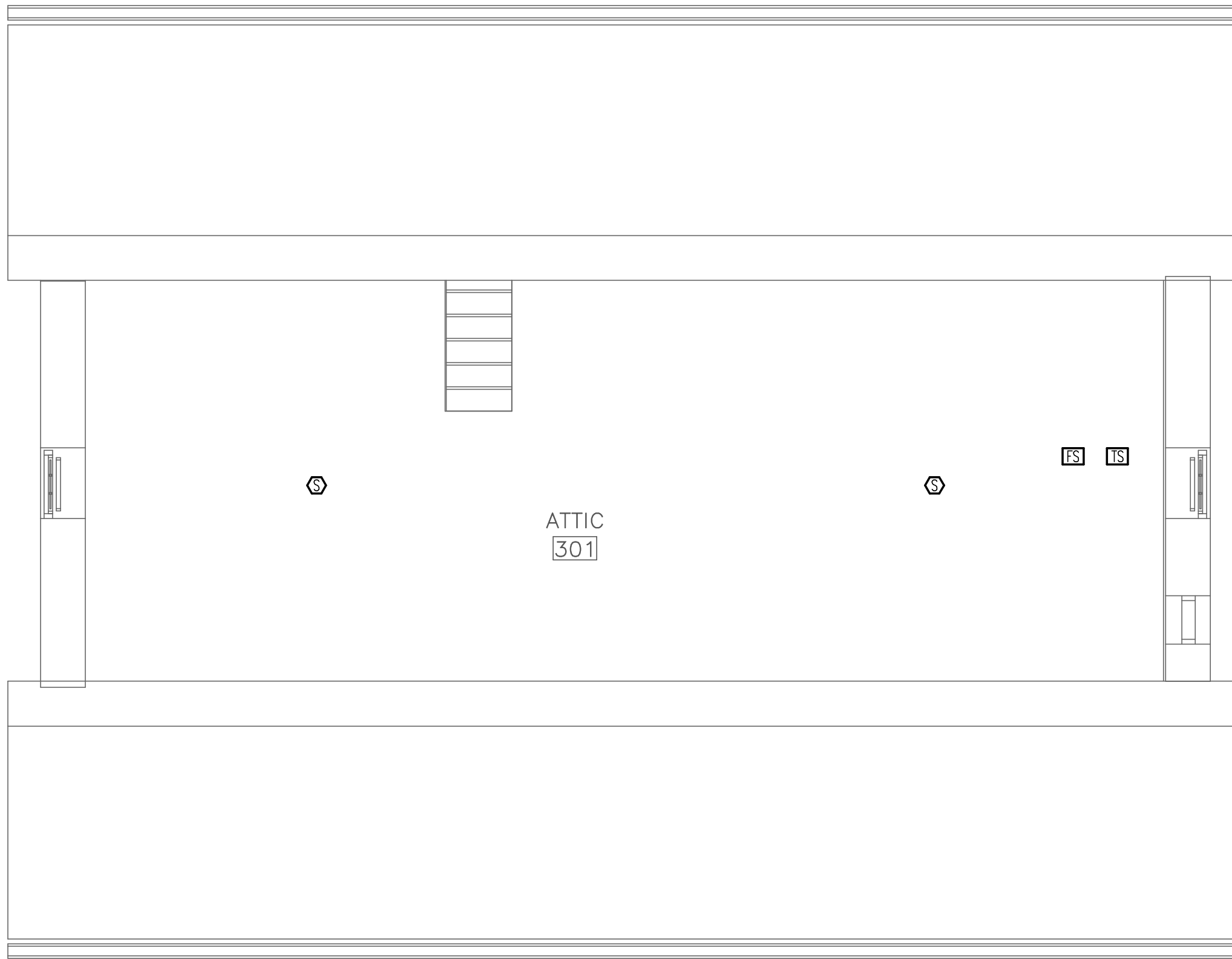
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SHEET

94

OF 95

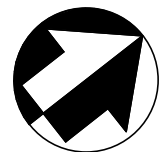
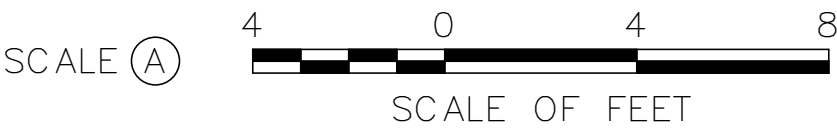
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1 ATTIC — FIRE ALARM NEW WORK
FA1.3 SCALE (A)

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- D.1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATES NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATES EXISTING ITEMS TO REMAIN.
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HENRY ADAMS
TOWSON, MD

FIRE PROTECTION:
HENRY ADAMS
TOWSON, MD

DESIGNED:

JLW

CADD:

JLW

TECH. REVIEW:

JST

DATE:

02/28/2022

SUB SHEET NO.

FA1.3

TITLE OF SHEET
ATTIC — FIRE ALARM
NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305
178321

PMIS/PKG NO.
257363

SHEET

95 OF 95