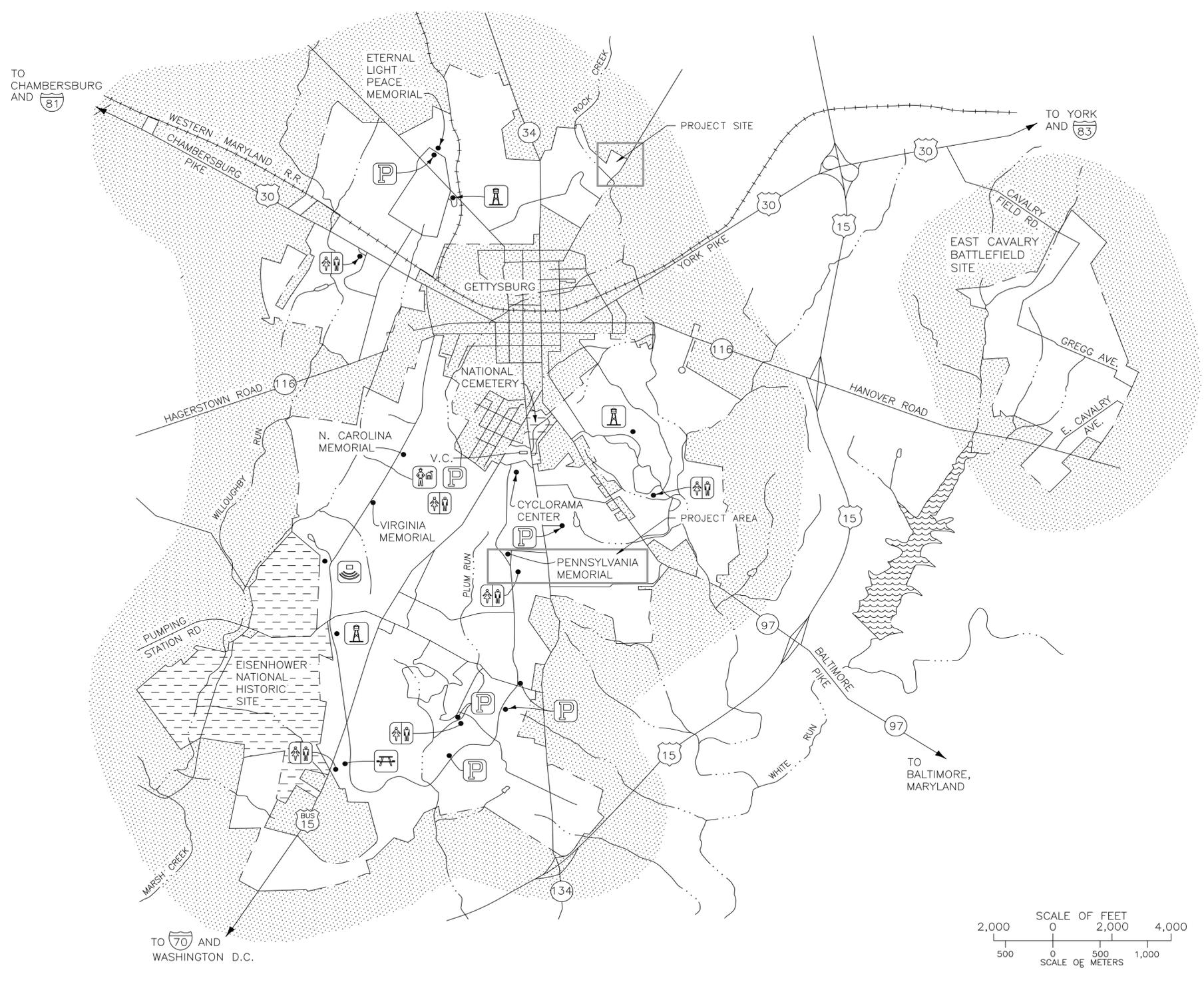
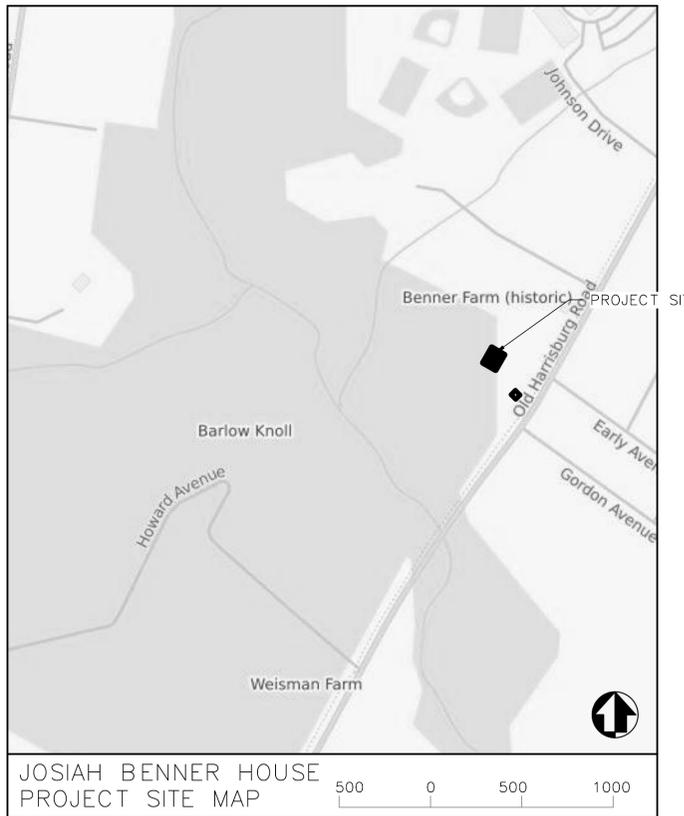
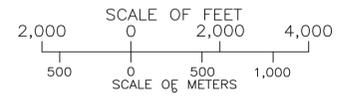
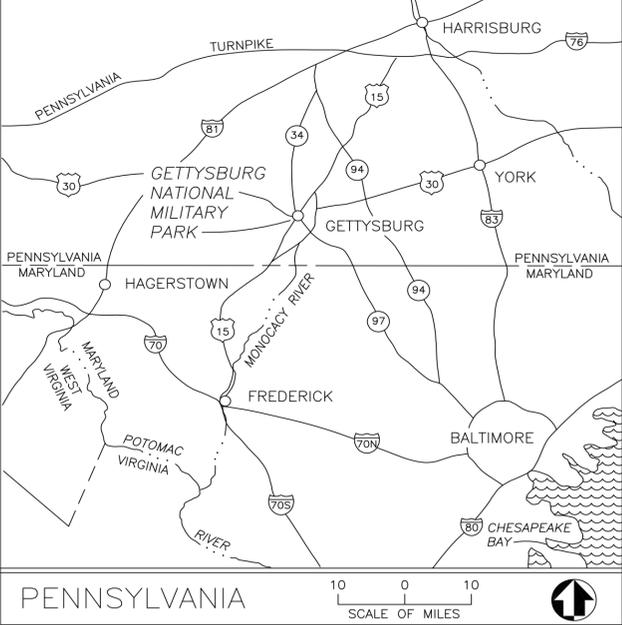


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- LEGEND**
- PARK BOUNDARY
 - - - STATE LINE
 - ... RIVER
 - ADJACENT NATIONAL PARK
 - V.C. VISITOR CENTER
 - HQ. PARK HEADQUARTERS
 - [Icon] RANGER STATION
 - [Icon] PARKING
 - [Icon] PICNIC AREA
 - [Icon] OBSERVATION TOWER
 - [Icon] RESTROOMS
 - [Icon] AMPHITHEATER



GETTYSBURG NATIONAL MILITARY PARK

REHABILITATE THE JOSIAH BENNER HOUSE, SPRINGHOUSE AND SUMMER KITCHEN

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

Prepared in Accordance with Design Development (Title I) Drawing No. _____

OR

Variance from Design Development (Title I) Approved by Superintendent on _____ Date _____

OR

Construction Drawing Not Preceded by Design Development (Title I)

Project Manager _____ Date _____



ISSUED FOR BID

UNITED STATES DEPARTMENT OF THE INTERIOR

NPS Office Responsible

TITLE OF DRAWING
REHABILITATE THE JOSIAH BENNER HOUSE, SPRINGHOUSE AND SUMMER KITCHEN
LOCATION WITHIN PARK
GETTYSBURG, PA
NAME OF PARK
GETTYSBURG NATIONAL MILITARY PARK
REGION 1 COUNTY ADAMS STATE PENNSYLVANIA

DRAWING NO. 305
178321
PMS/PKG NO. 257363
SHEET 1 OF 95

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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

Sheet	Sub Sheet	Title of Sheet
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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

Mechanical

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13	M01.2	First Floor Demolition Mechanical
14	M01.3	Second Floor Demolition Mechanical
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18	M1.4	Attic New Work Mechanical
19	M5.1	Details
20	M6.1	Automatic Temperature Controls
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24	P01.2	First Floor Demolition Plumbing
25	P01.3	Second Floor Demolition Plumbing
26	P0.1	Foundation New Work Plumbing
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59	FA0.1	Fire Alarm Cover Sheet
60	FA1.0	Cellar Fire Alarm New Work
61	FA1.1	First Floor Fire Alarm New Work
62	FA1.2	Second Floor Fire Alarm New Work
63	FA1.3	Attic Fire Alarm New Work

ISSUED FOR BID

A/E FIRM - P13P000007				DESIGNED: LMG	SUB SHEET NO. CS.2	TITLE OF SHEET INDEX OF DRAWINGS	DRAWING NO. 305
PRIME/ARCH: DMG, INC. BALTIMORE, MD	CIVIL: C.S. DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: LMG			178321
LANDSCAPE: C.S. DAVIDSON GETTYSBURG, PA	STRUCTURAL: SDH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SDM			PM/S/PKG NO. 257363
				DATE: 02/28/2022			SHEET* 2 of 63
						GETTYSBURG NATIONAL MILITARY PARK	

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		DETAIL/ PARTIAL SECTION REFERENCE
NAME 	ROOM IDENTIFICATION		ELEVATION REFERENCE
	DEMOLITION NOTE		SECTION REFERENCE
	CONSTRUCTION NOTE		
	REFERENCE POINT		
	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

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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: 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.3

TITLE OF SHEET ABBREVIATIONS, SYMBOLS, AND MATERIALS
GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO. 305
178321
PMS/PKG NO. 257363
SHEET 3 of 95

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

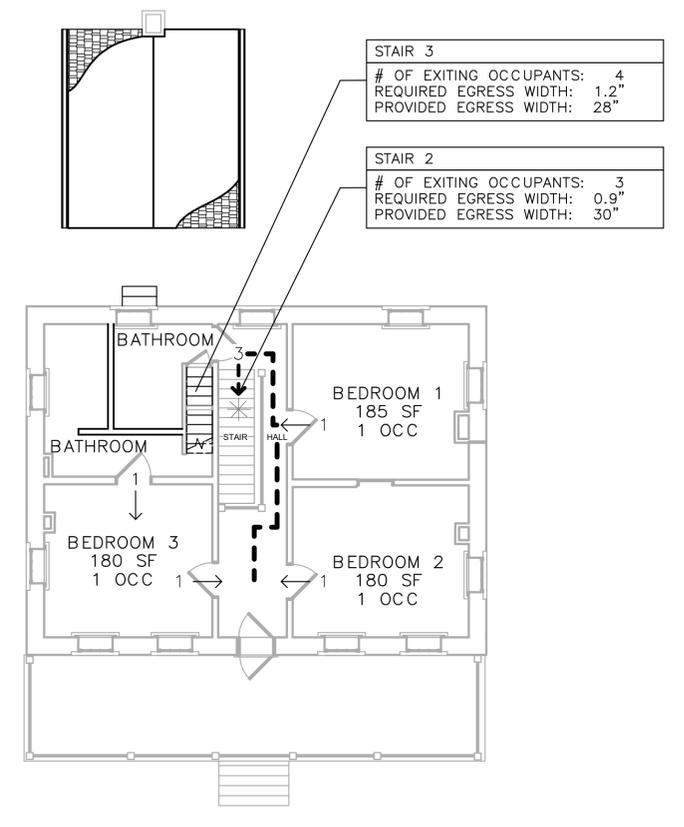
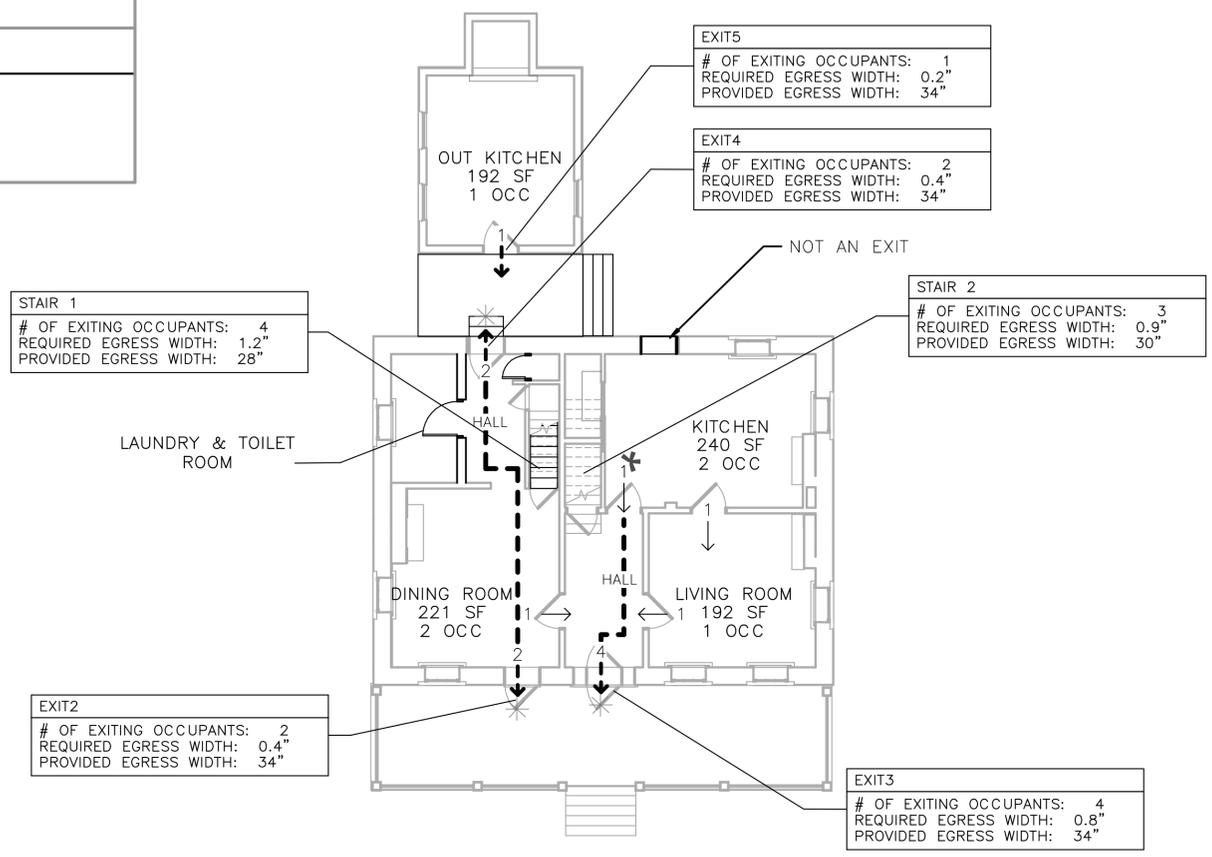
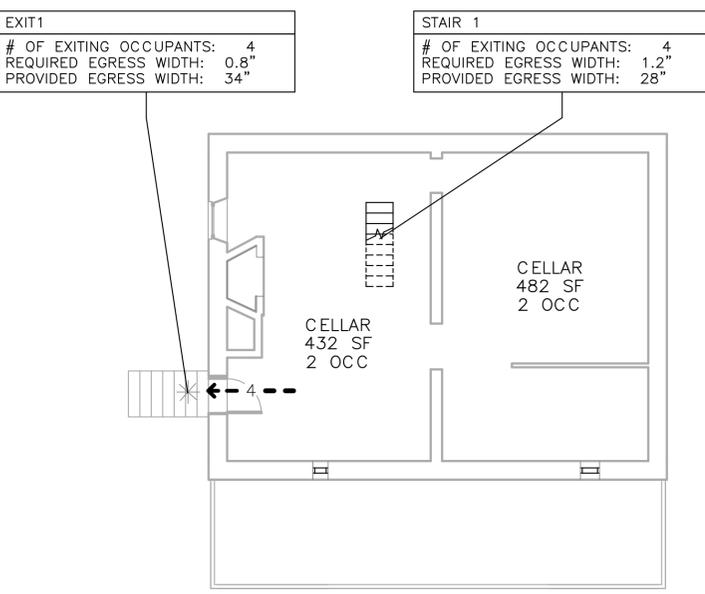
THE FOLLOWING TABLE INDICATES THE ACTUAL OCCUPANT LOAD BY STORY, PROVIDED EGRESS CAPACITY BY STORY BASED ON THE ABOVE TABLE, REQUIRED NUMBER OF EXITS BY STORY BASED ON IBC TABLE 1006.3.1 AND NFPA 7.4.1.2 AND 6.1.8.1.2, AND PROVIDED NUMBER OF EXITS BY STORY.

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

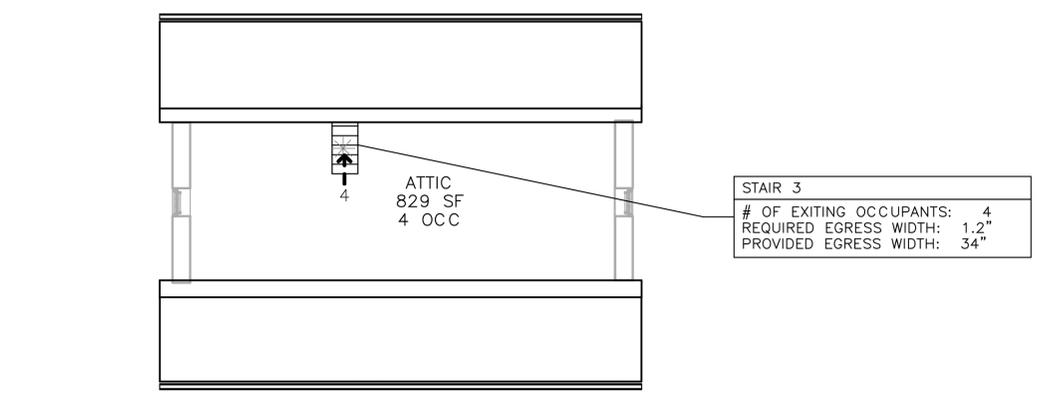
BUILDING USE GROUP	IBC	NFPA 101
RESIDENTIAL GROUP R-2	310.4	6.1.8.1.2



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

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

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



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



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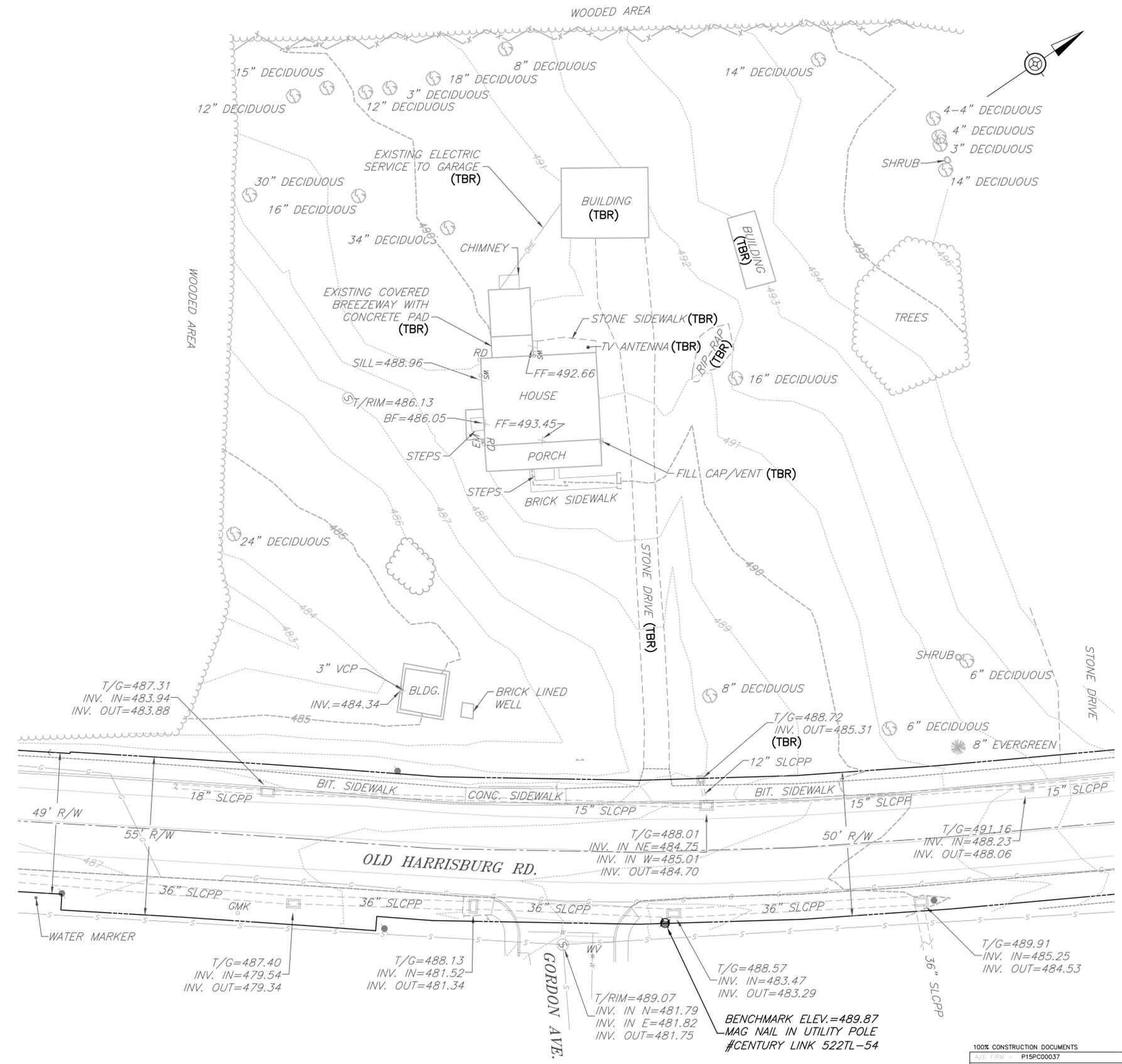
ISSUED FOR BID				DESIGNED:	SUB SHEET NO. CS.4	TITLE OF SHEET CODE SHEET & EGRESS PLAN	DRAWING NO. 178321
A/E FIRM - P15PC00037				LMG			
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: LMG			
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SDM			
				DATE: 02/28/2022		GETTYSBURG NATIONAL MILITARY PARK	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:

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



EXISTING CONDITIONS/DEMO PLAN
SCALE: 1"=20'

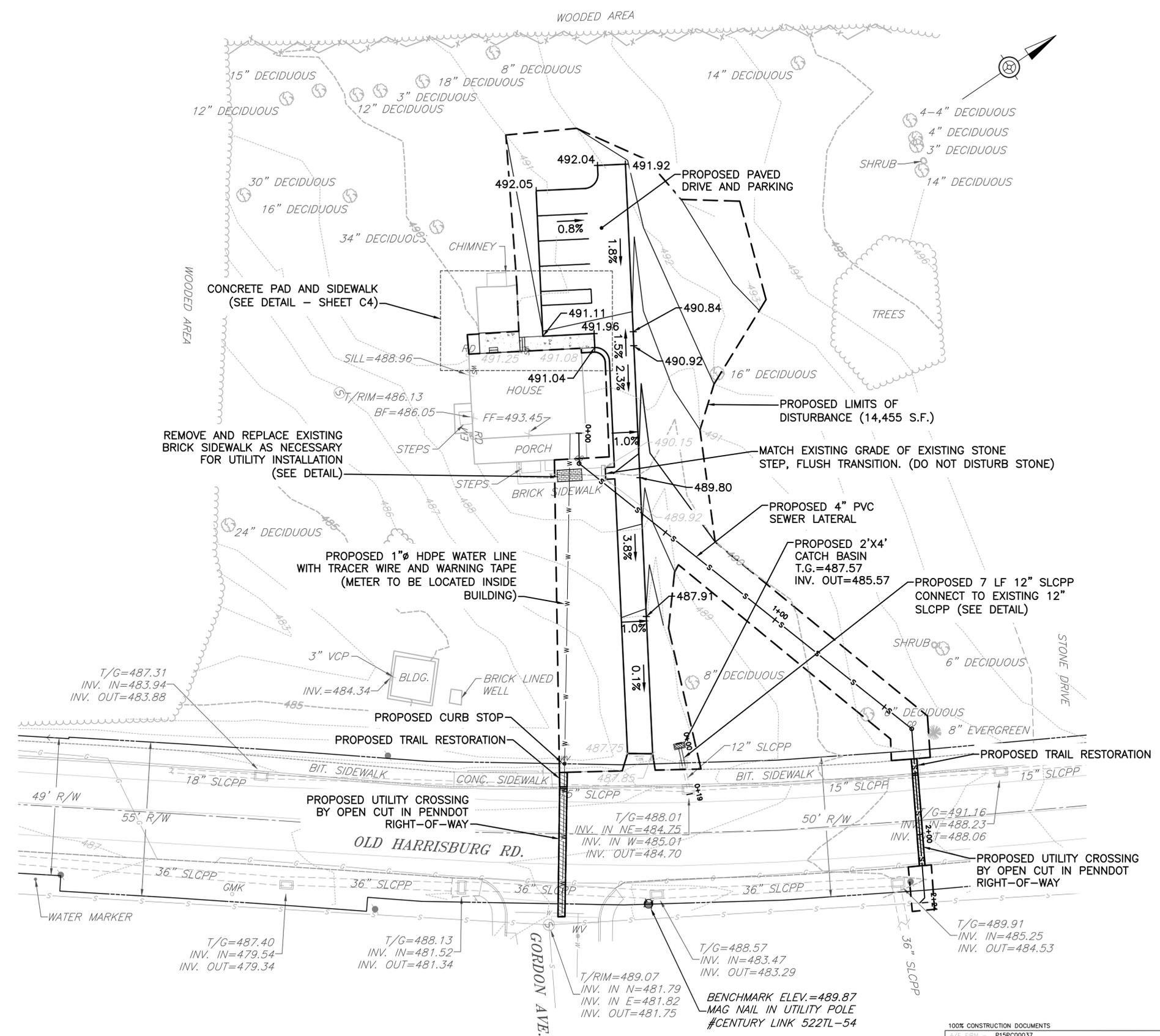


100% CONSTRUCTION DOCUMENTS A/E/T/FIRM: P15PC00037				DESIGNED: CWS	SUB SHEET NO. C1	TITLE OF SHEET EXISTING CONDITIONS DEMOLITION PLAN	DRAWING NO. 305 178321
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	TECH. REVIEW: NCS			PMS/PKG. NO. 257363
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	DATE: 10/29/2021	SHEET OF 95	GETTYSBURG NATIONAL MILITARY PARK	

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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 P15PC00037				DESIGNED: CWS	SUB SHEET NO. C2	TITLE OF SHEET SITE GRADING/UTILITY IMPROVEMENTS PLAN	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	TECH. REVIEW: NCS			PMS/PKG. NO. 257363
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	DATE: 10/29/2021		GETTYSBURG NATIONAL MILITARY PARK	SHEET OF 95

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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

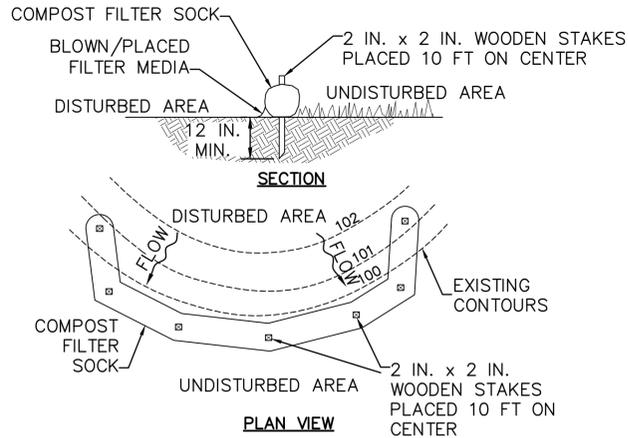
ANY FILL MATERIALS REQUIRED FOR THE PROJECT MUST BE OBTAINED FROM A PARK-APPROVED SOURCE. INTACT NATIVE TOPSOIL FROM THE PROJECT AREA SHALL BE RETAINED WHENEVER FEASIBLE. FILL AND TOPSOIL BROUGHT IN ON SITE MUST BE SOURCED FROM A WEED-FREE SUPPLIER.

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.

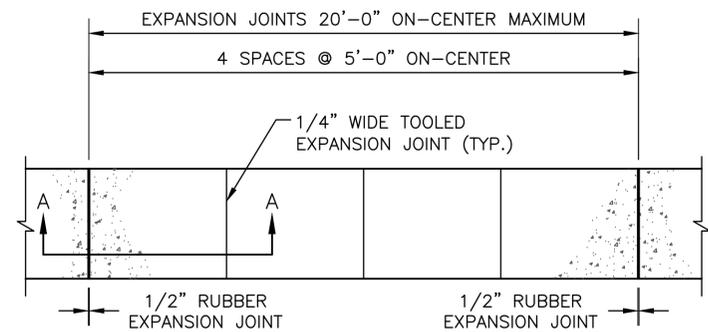
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

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

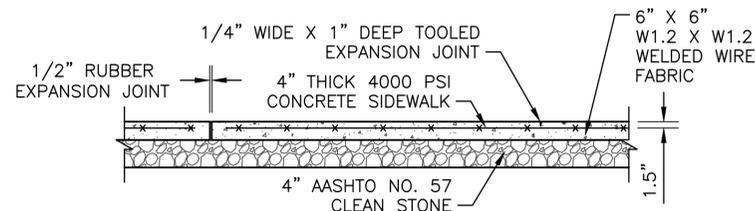
Material Type	3 mil HDPE	5 mil HDPE	5 mil HDPE	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)
Material Characteristics	Photo-degradable	Photo-degradable	Bio-degradable	Photo-degradable	Photo-degradable
Sock Diameters	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 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				
Outer Filtration Mesh	3/4" X 3/4" Max. aperture size				
	Composite Polypropylene Fabric				
	(Woven layer and non-woven fleecce 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.					

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



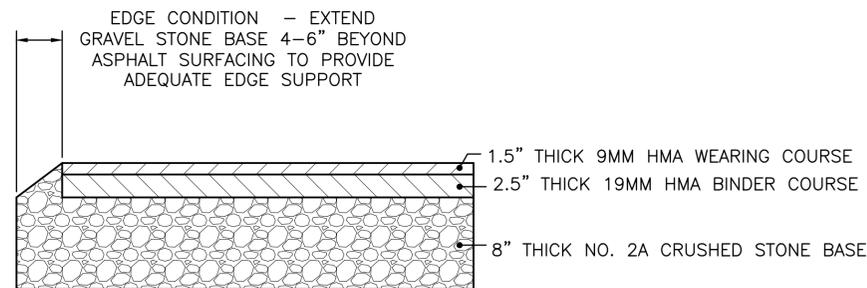
PLAN VIEW



SECTION A-A

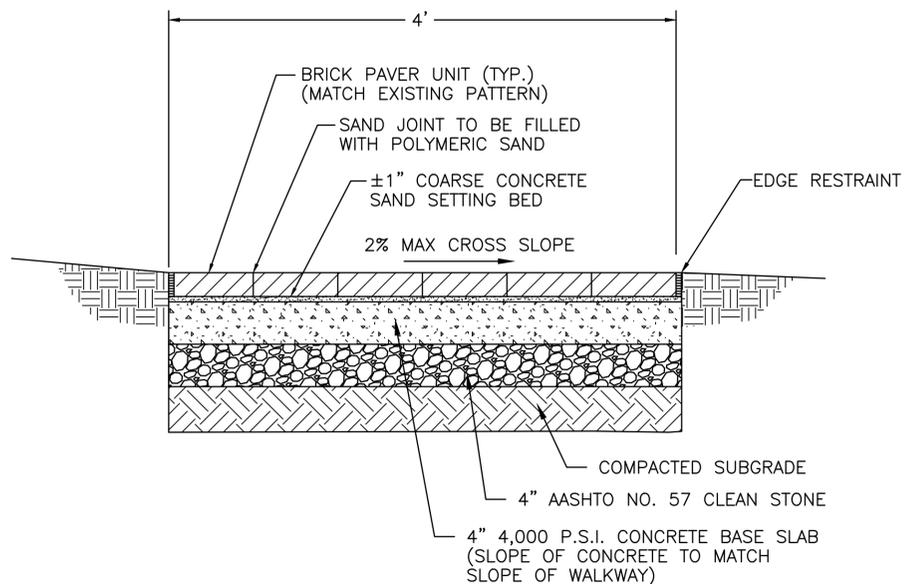
CONCRETE SIDEWALK DETAIL

N.T.S.



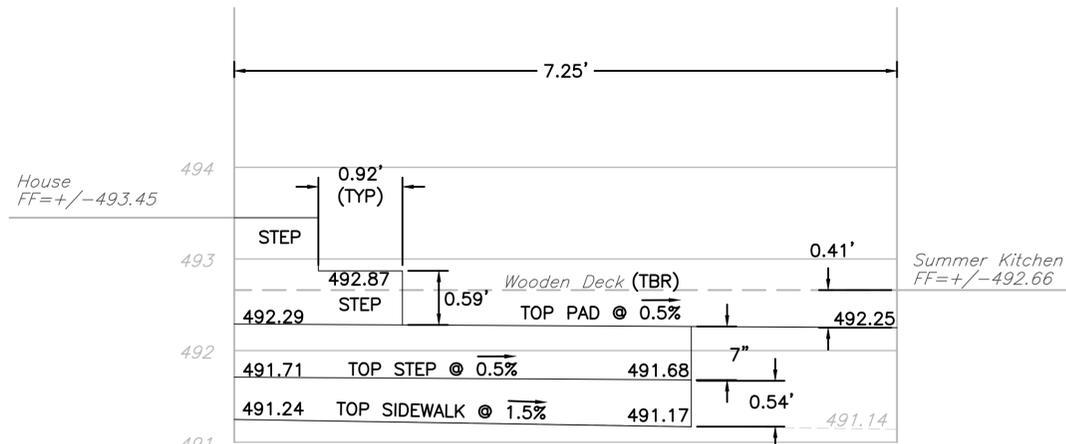
TYPICAL DRIVEWAY PAVING SECTION

N.T.S.

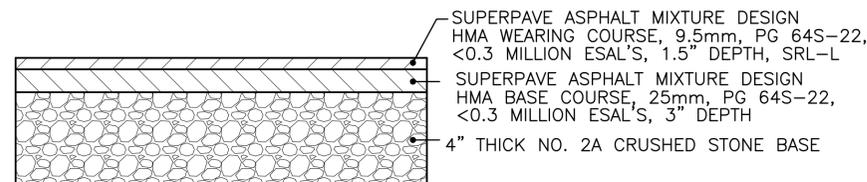


TYPICAL SECTION THROUGH BRICK WALKWAY

N.T.S.

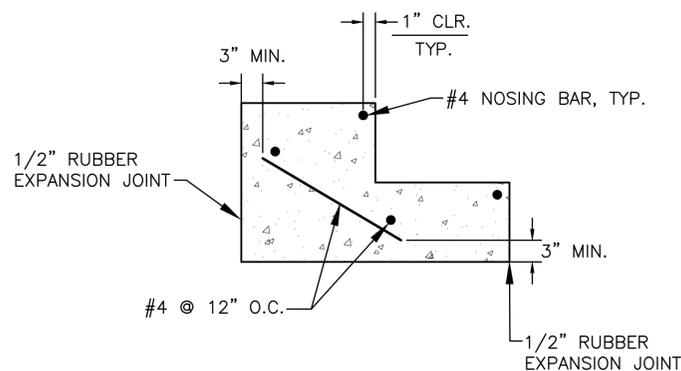


CONCRETE PAD AND SIDEWALK - ELEVATION



TRAIL RESTORATION PAVING SECTION

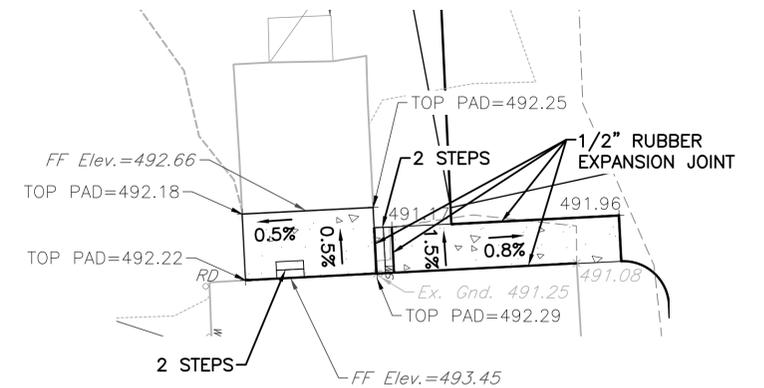
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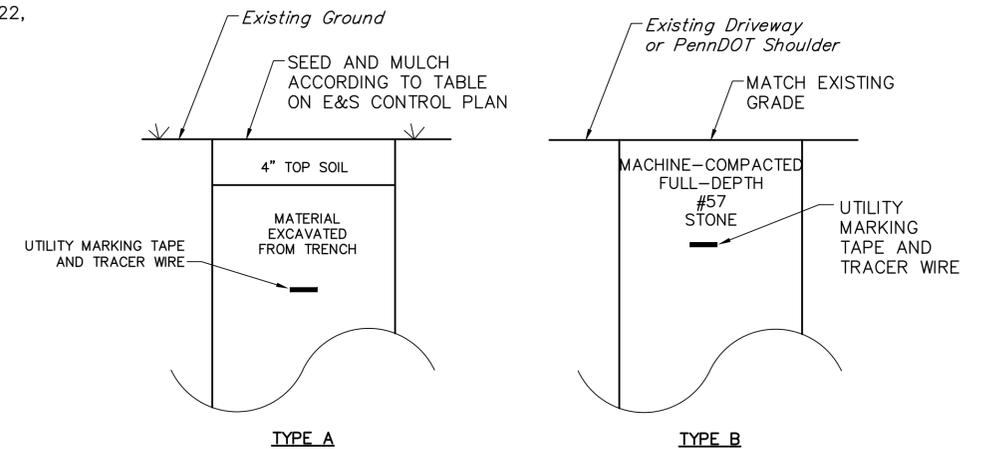
NOTE:
EXACT STAIR CONFIGURATION TO BE FIELD DETERMINED WITH EXISTING CONDITIONS. RISE AND RUN OF STAIRS SHALL COMPLY WITH APPLICABLE INTERNATIONAL RESIDENTIAL CODE (IRC).

CONCRETE STAIR REINFORCING DETAIL

N.T.S.



CONCRETE PAD AND SIDEWALK - PLAN VIEW



TRENCH TYPE NOTES

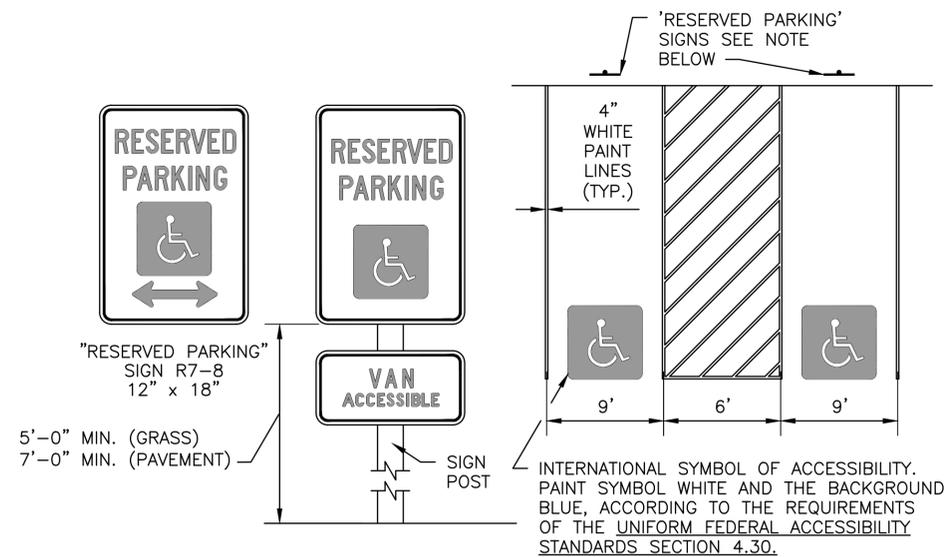
1. USE TRENCH TYPE A FOR REPAIRING TRENCH WITHIN THE LIMITS OF THE PennDOT RIGHT-OF-WAY WHERE THE TRENCH IS OUTSIDE THE SHOULDER MORE THAN FIVE FEET (5') FROM THE EDGE OF PAVEMENT.
2. USE TRENCH TYPE B FOR REPAIRING TRENCH WITHIN LIMITS THE PennDOT RIGHT-OF-WAY WHERE THE TRENCH IS WITHIN A GRAVEL SHOULDER 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.

100% CONSTRUCTION DOCUMENTS DATE: 10/29/2021				DESIGNED: CWS	SUB SHEET NO. C4	TITLE OF SHEET CONSTRUCTION DETAILS	DRAWING NO. 305 178321
PRIME/ARCH: G.W.W.D., INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	TECH. REVIEW: NCS			PMS/PKG. NO. 257363
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	DATE: 10/29/2021			SHEET OF 95

GETTYSBURG NATIONAL MILITARY PARK



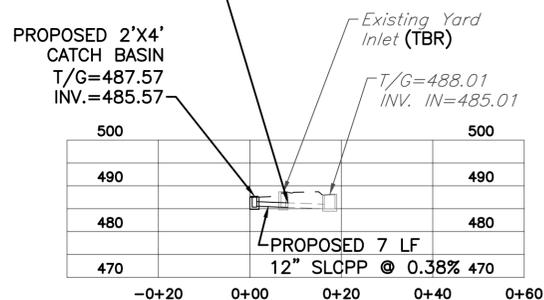
NOTES: RESERVED PARKING SIGNS SHALL BE INSTALLED PER THE NPS SIGN ELEVATION SHOWN. THE SIGN SHALL BE INSTALLED WITH THE BOTTOM OF THE SIGN A MINIMUM OF 5'-0" ABOVE GRADE IN GRASS AREAS AND 7'-0" ABOVE GRADE ON PAVED AREAS. THE HANDICAP PARKING SPACES SHALL BE FURTHER IDENTIFIED BY HAVING AT LEAST THE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

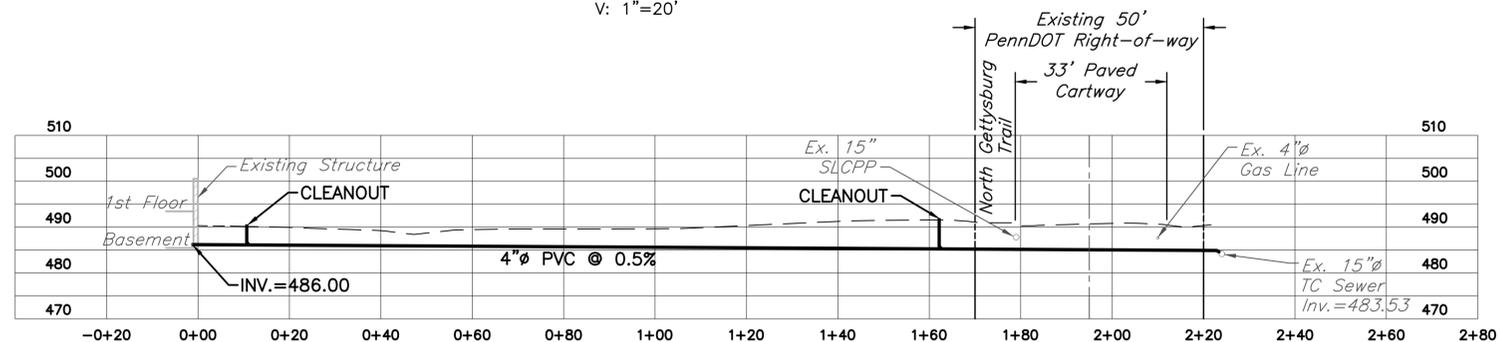


CONNECT TO EXISTING 12" SLCPP WITH COLLAR AND MAINTAIN EXISTING GRADE



CATCH BASIN TO INLET PROFILE

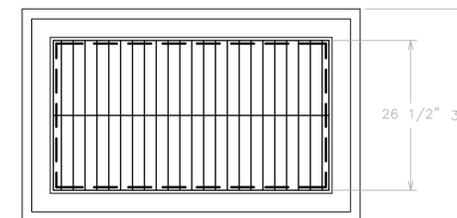
H: 1"=20'
V: 1"=20'



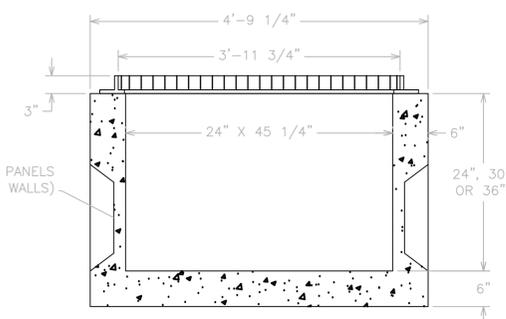
SEWER PROFILE

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

MONARCH PRODUCTS COMPANY, INC.
YORK HAVEN, PA.



-PLAN-



-SECTION-

WITH FRAME AND GRATE

*RISER SECTIONS AVAILABLE

24" X 48" CATCH BASIN

DWG. CB-11

100% CONSTRUCTION DOCUMENTS
DATE/TIME: P15PC00037

PRIME/ARCH: G.W.O., 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:

CWS

CWS

TECH. REVIEW:

NCS

DATE:

10/29/2021

SUB SHEET

NO.

C5

TITLE OF SHEET
CONSTRUCTION DETAILS

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

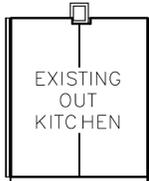
PMS/PKG. NO.

257363

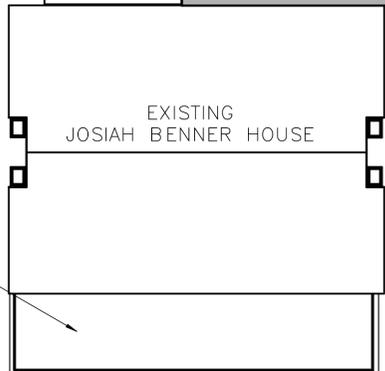
SHEET

OF 95

CONCRETE PORCH. REFER TO CIVIL DRAWINGS



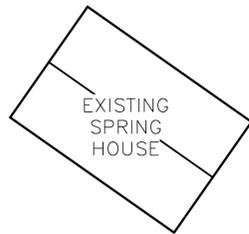
EXISTING OUT KITCHEN



EXISTING JOSIAH BENNER HOUSE

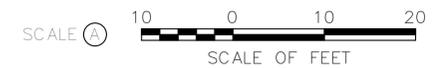
EXISTING PORCH

EXISTING BRICK SIDEWALK. REFER TO CIVIL DRAWINGS



EXISTING SPRING HOUSE

PARKING AND SITE IMPROVEMENTS SEE CIVIL DRAWINGS



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

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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
		NOM	NOMINAL
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
COR	CONTRACT OFFICER REPRESENTATIVE		
		OA	OUTDOOR AIR
D	DEPTH/DIFFUSER/DAMPER/DROP/DRAIN/DIAMETER	OED	OPEN END DUCT
DB	DRY BULB	OS	OCCUPANCY SENSOR
DN	DOWN		
DWG	DRAWING	PD	PRESSURE DROP
		PSI	PRESSURE--POUNDS PER SQUARE INCH
		PSIG	PRESSURE--POUNDS PER SQUARE INCH, GAGE
EA	EXHAUST AIR/EACH	R	RADIUS/REGISTER/RISE
EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR
EER	ENERGY EFFICIENCY RATIO	RL	REFRIGERANT LIQUID
EF	EXHAUST FAN	RPM	REVOLUTIONS PER MINUTE
ELEC	ELECTRIC/ELECTRICAL	RS	REFRIGERANT SUCTION
ELEV	ELEVATION	RX	REMOVE EXISTING
ESP	EXTERNAL STATIC PRESSURE		
EX	EXISTING	S	SECONDS/SWITCH
		SA	SUPPLY AIR
F	FAHRENHEIT	SENS	SENSIBLE
FC	FLEXIBLE CONNECTION	SF	SQUARE FEET/SQUARE FOOT
FP	FIRE PROTECTION	SP	STATIC PRESSURE
FS	FUEL OIL SUPPLY		
FT	FEET/FOOT	T	THERMOSTAT
		TEMP	TEMPERATURE
G	GRILLE	TSP	TOTAL STATIC PRESSURE
		TYP	TYPICAL
H	HEIGHT/HIGH/HUMIDISTAT		
HP	HORSEPOWER	UH	UNIT HEATER
IN	INCH/INCHES	V	VENT
INS	INSULATION	VD	VOLUME DAMPER
KW	KILOWATT	WB	WET BULB
		WG	WATER GAUGE
L	LENGTH		
LAT	LEAVING AIR TEMPERATURE		
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

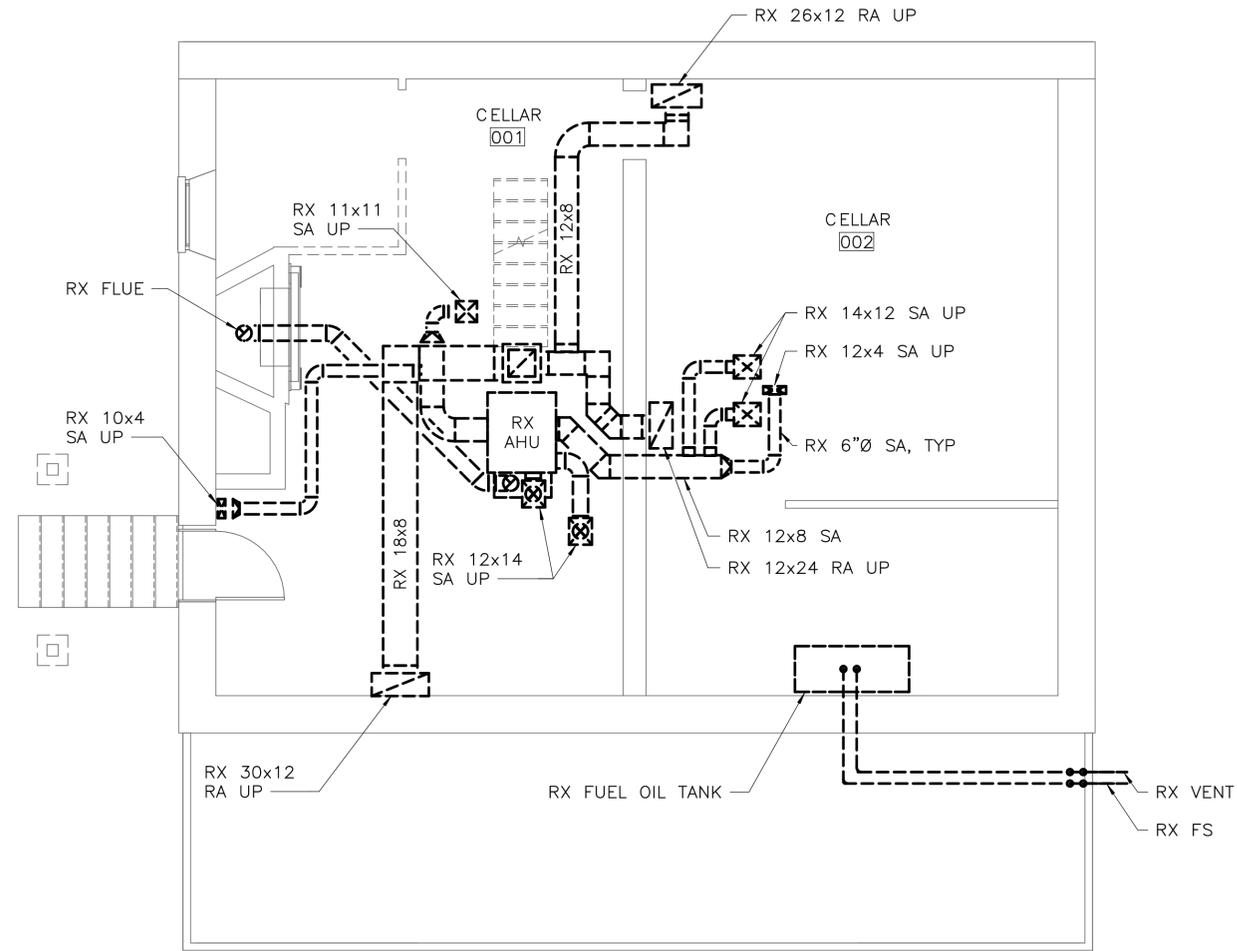
GENERAL MECHANICAL NOTES (APPLICABLE TO ALL MECHANICAL DRAWINGS)	
1.	COORDINATE ALL MECHANICAL WORK WITH PLUMBING WORK, ELECTRICAL WORK, AND WORK OF OTHER TRADES SHOWN ON OTHER DRAWINGS.
2.	INFORMATION SHOWN ON THE MECHANICAL DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE 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 A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. MO.0	TITLE OF SHEET MECHANICAL COVER SHEET	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: GPZ			178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SRH			PMIS/PKG NO. 257363
				DATE: 02/28/2022		GETTYSBURG NATIONAL MILITARY PARK	SHEET 43 of 95

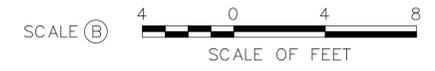
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- DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)**
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
 - DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - -
 - CONTRACTOR SHALL IDENTIFY REMOVAL OF ALL MECHANICAL DUCTWORK AND EQUIPMENT AND REVIEW 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.
 - 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)



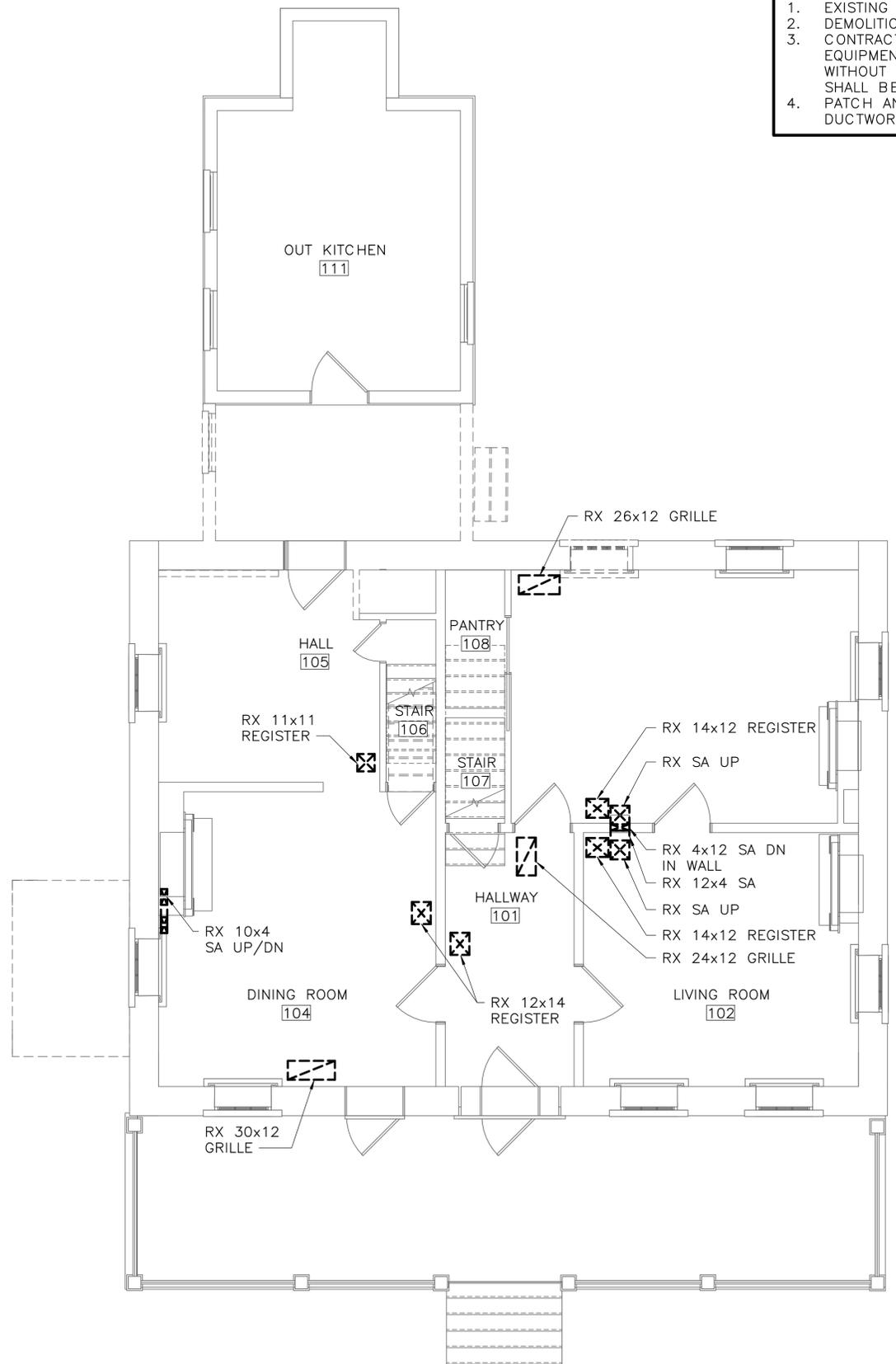
ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. MD1.1	TITLE OF SHEET CELLAR — DEMOLITION — MECHANICAL	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 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 44 of 95
				DATE: 02/28/2022			GETTYSBURG NATIONAL MILITARY PARK

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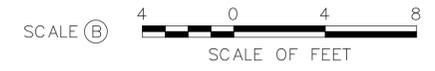
DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
- DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - -
- CONTRACTOR SHALL IDENTIFY REMOVAL OF ALL MECHANICAL DUCTWORK 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.
- 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)



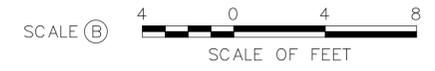
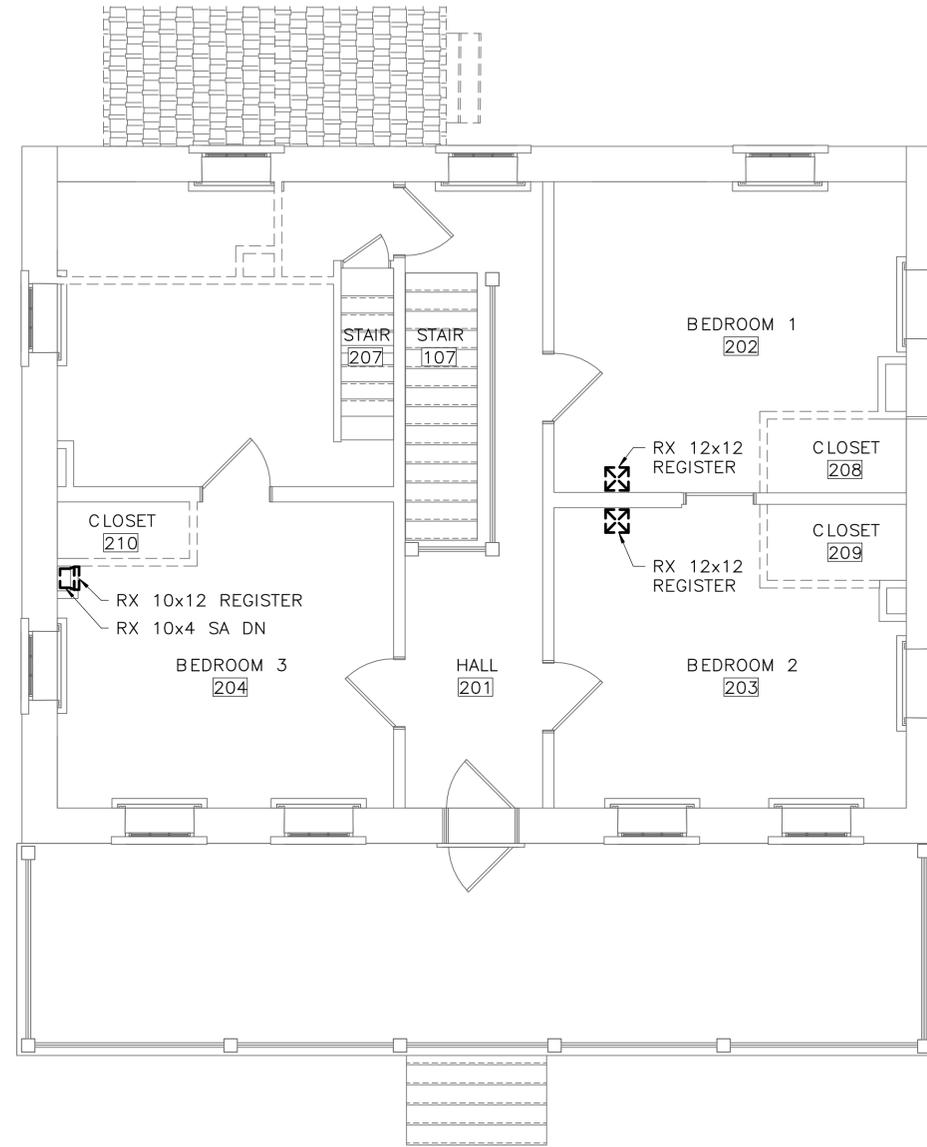
ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. MD1.2	TITLE OF SHEET FIRST FLOOR — DEMOLITION — MECHANICAL	DRAWING NO. 305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ	MD1.2	GETTYSBURG NATIONAL MILITARY PARK	178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SRH			PMIS/PKG NO. 257363
				DATE: 02/28/2022			SHEET

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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 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 SECOND FLOOR - MECHANICAL - DEMOLITION
MD1.3 SCALE (B)



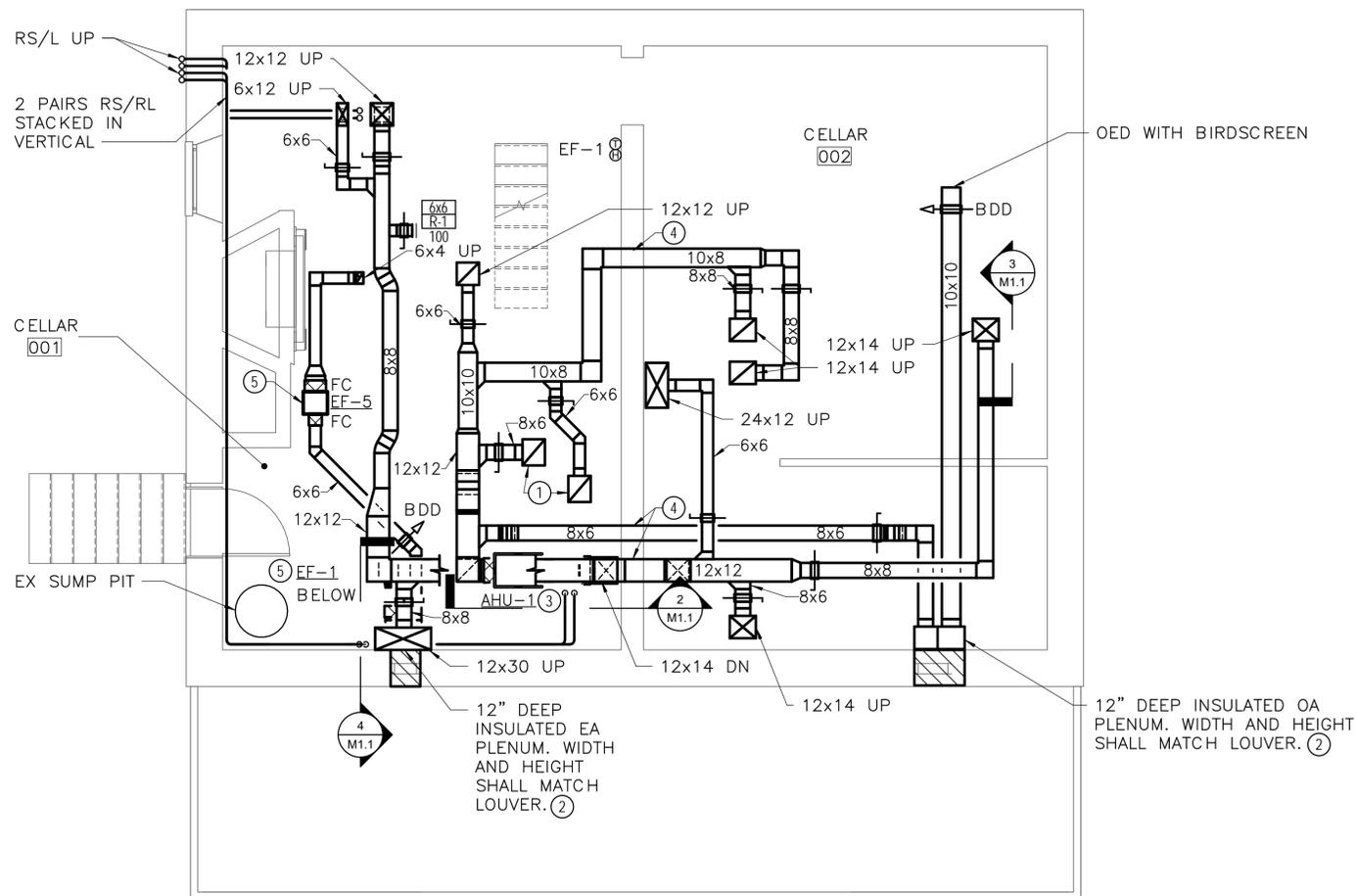
ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. MD1.3	TITLE OF SHEET SECOND FLOOR - DEMOLITION - MECHANICAL	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ	GETTYSBURG NATIONAL MILITARY PARK		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 46 of 95
				DATE: 02/28/2022			

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

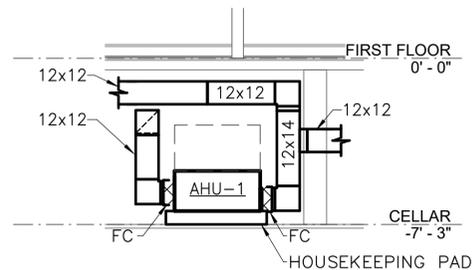
1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———
3. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES,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

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

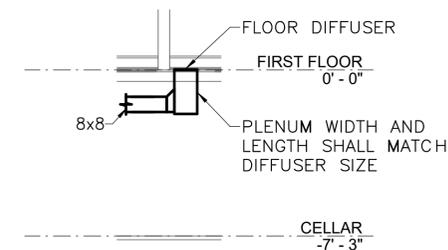
- ① 12x14 UP
- ② CONNECT TO LOUVER PROVIDED UNDER ANOTHER DIVISION
- ③ MOUNT ON 4" HOUSEKEEPING PAD
- ④ ROUTE DUCT THROUGH NEW WALL PENETRATION
- ⑤ SUPPORT FROM ABOVE



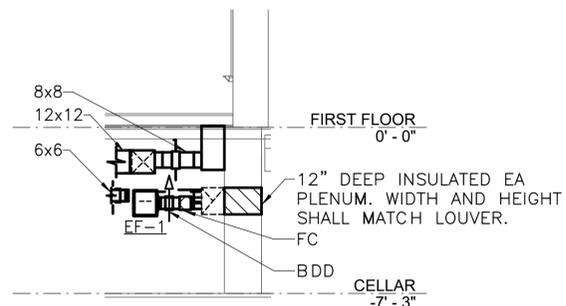
① CELLAR — MECHANICAL — NEW WORK
M1.1 SCALE (B)



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)



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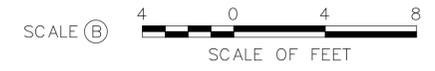
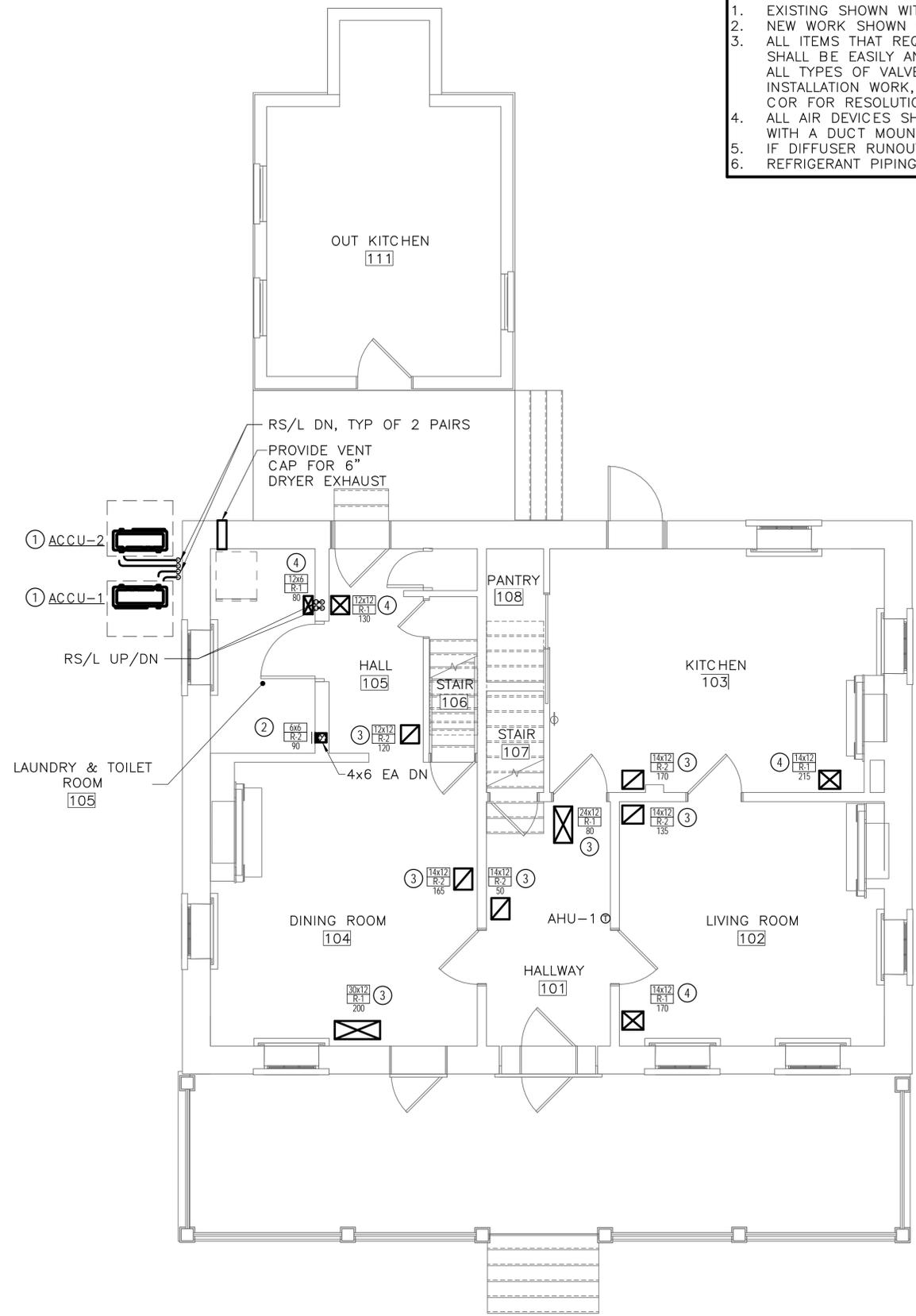
ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. M1.1	TITLE OF SHEET CELLAR — NEW WORK — MECHANICAL	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 257363
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SRH	SHEET 47 of 95	GETTYSBURG NATIONAL MILITARY PARK	
				DATE: 02/28/2022			

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.
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.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- ① MOUNT ON 4" HOUSKEEPING PAD
- ② MOUNT BOTTOM OF REGISTER 7'-0" AFF
- ③ INSTALL REGISTER IN EXISTING FLOOR HOLE. VERIFY SIZE IN FIELD AND SUBMIT TO COR FOR APPROVAL.
- ④ CREATE NEW HOLE IN FLOOR TO INSTALL REGISTER



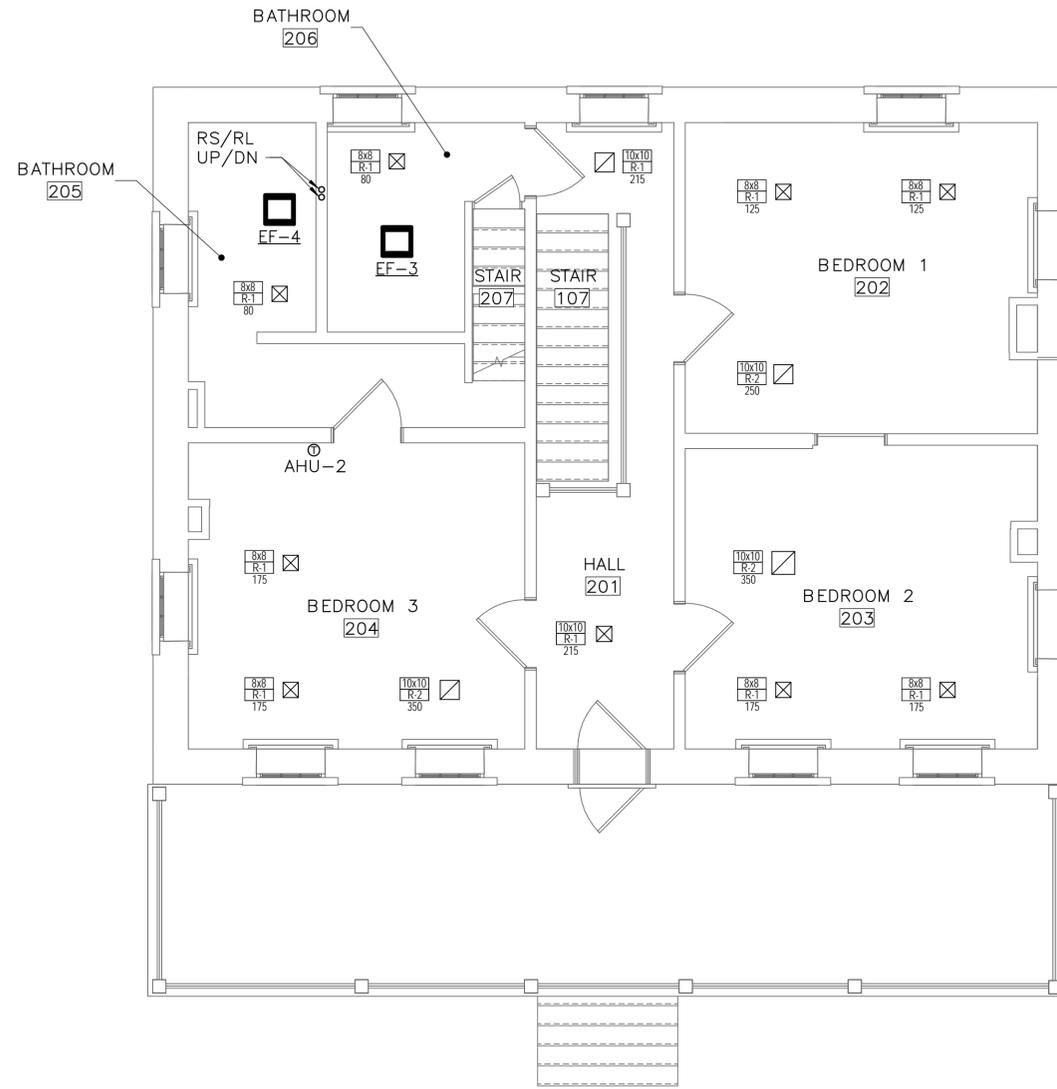
① FIRST FLOOR – MECHANICAL – NEW WORK
M1.2 SCALE (B)

ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. M1.2	TITLE OF SHEET FIRST FLOOR – NEW WORK – DUCTWORK	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: 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			48 of 95
						GETTYSBURG NATIONAL MILITARY PARK	

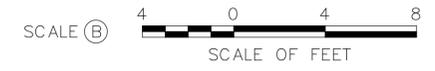
DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

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.
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6. 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)



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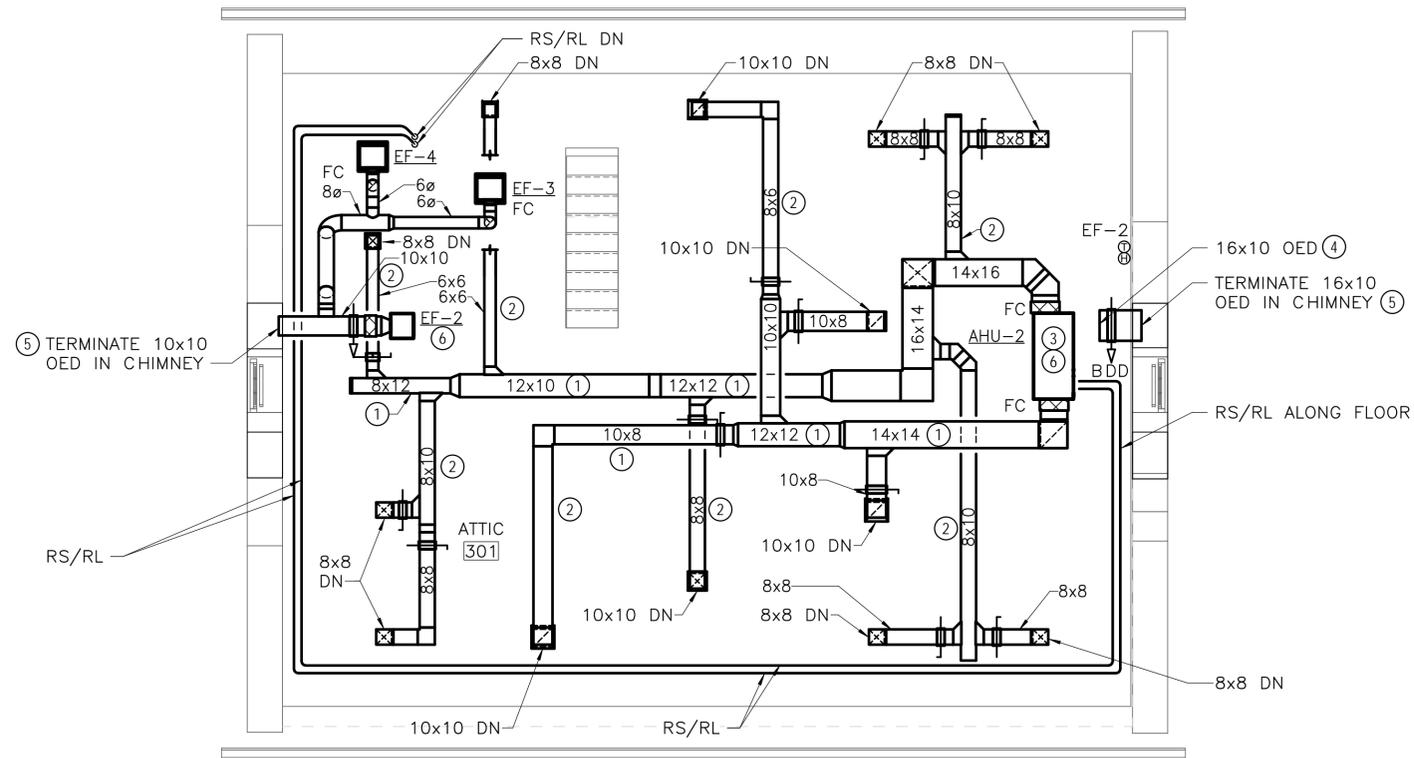
ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. M1.3	TITLE OF SHEET SECOND FLOOR — NEW WORK — DUCTWORK	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 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			49 of 95
GETTYSBURG NATIONAL MILITARY PARK							

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
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6. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- ① INSTALL DUCTWORK HIGH AT ROOF PEAK
- ② SLOPE DUCTWORK DOWN PARALLEL TO AND CLOSE TO THE ROOF
- ③ PROVIDE SECONDARY DRAIN PAN WITH LIQUID LEVEL SENSOR
- ④ PROVIDE BIRD SCREEN OVER DUCT OPENING
- ⑤ SEAL DUCT PENETRATION AND CHIMNEY BELOW PENETRATION TO MAKE AIR AND WATER TIGHT
- ⑥ SUPPORT FROM ABOVE



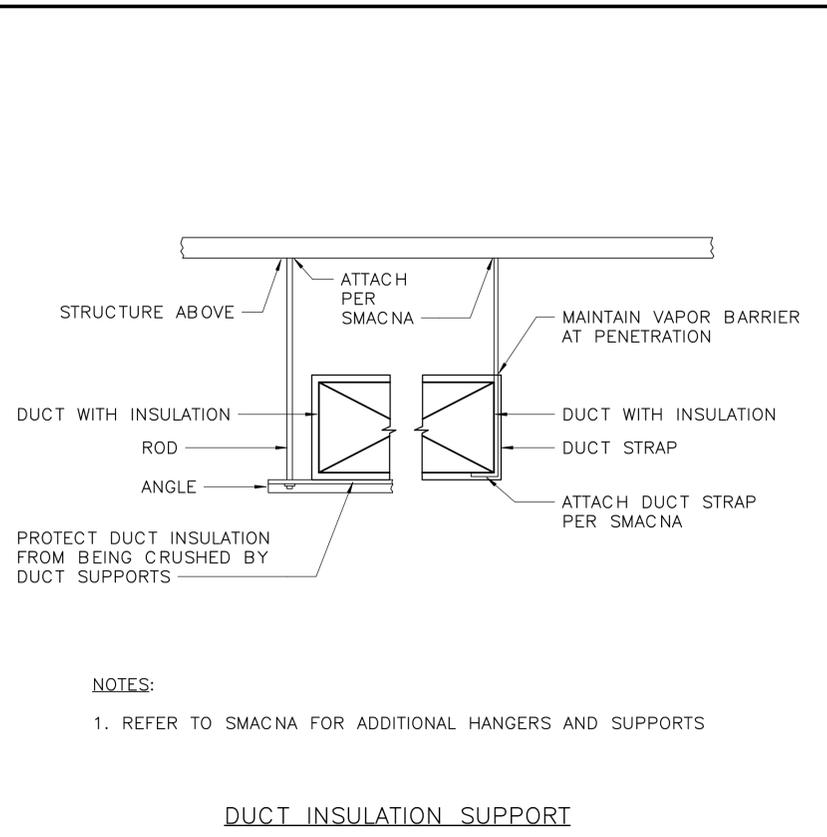
① ATTIC — MECHANICAL — NEW WORK
M1.4 SCALE (B)



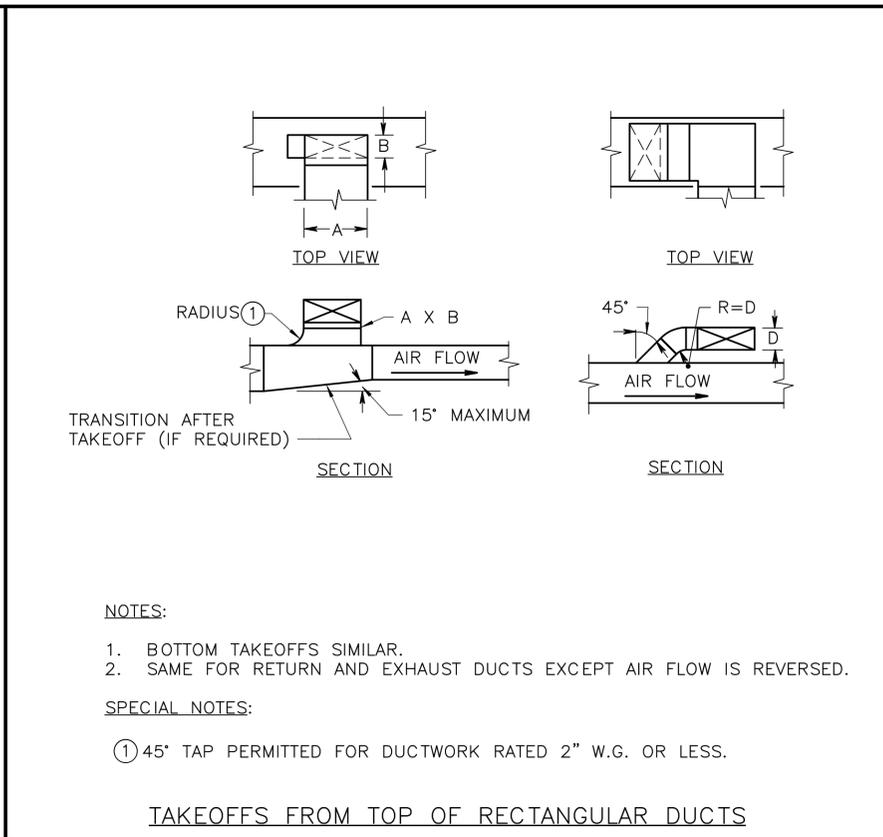
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ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. M1.4	TITLE OF SHEET ATTIC — NEW WORK — MECHANICAL	DRAWING NO. 305
PRIME/ARCH: GWDO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: 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			50 of 95
GETTYSBURG NATIONAL MILITARY PARK							

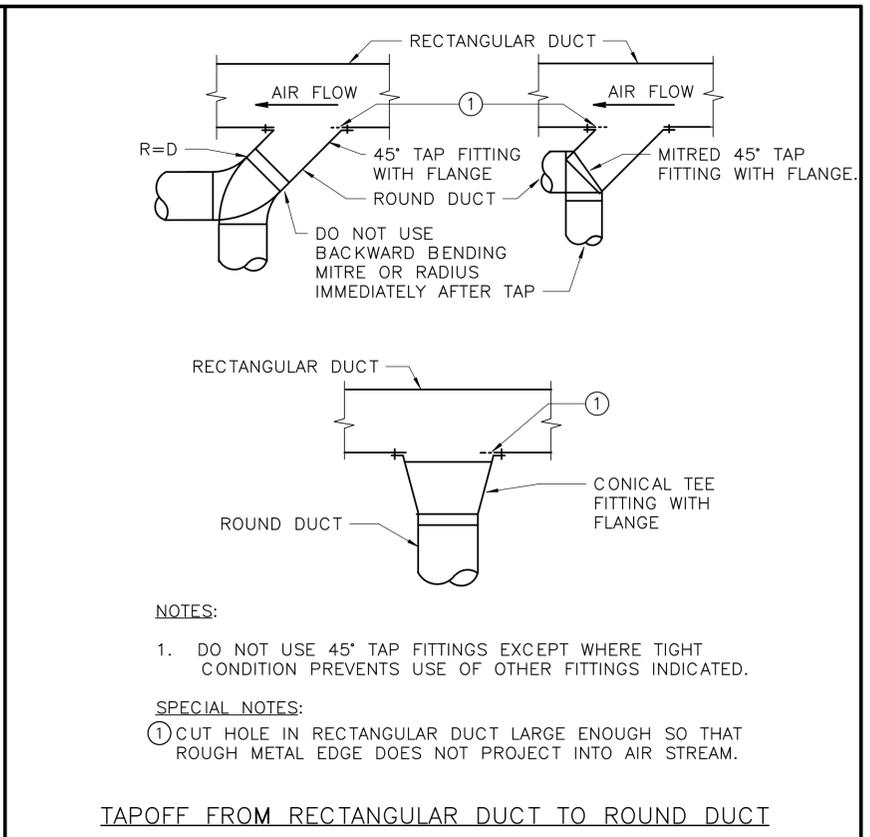
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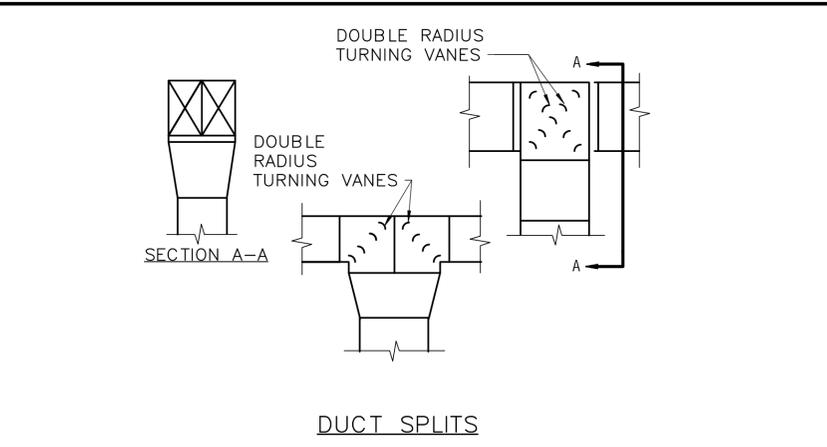
DUCT INSULATION SUPPORT



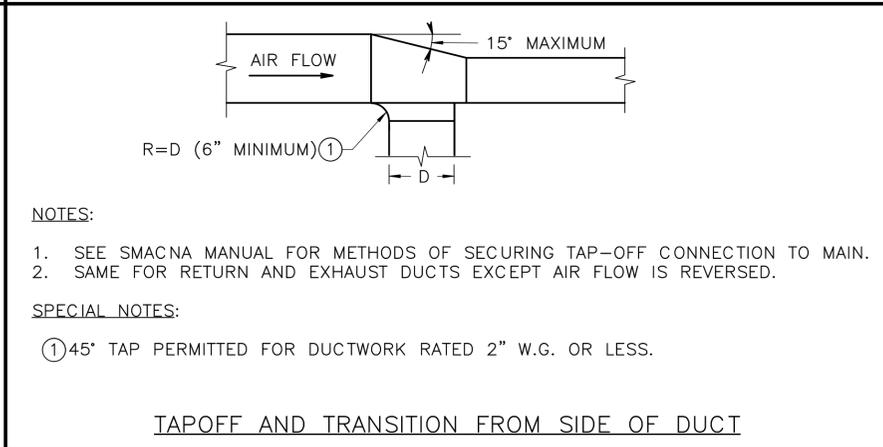
TAKEOFFS FROM TOP OF RECTANGULAR DUCTS



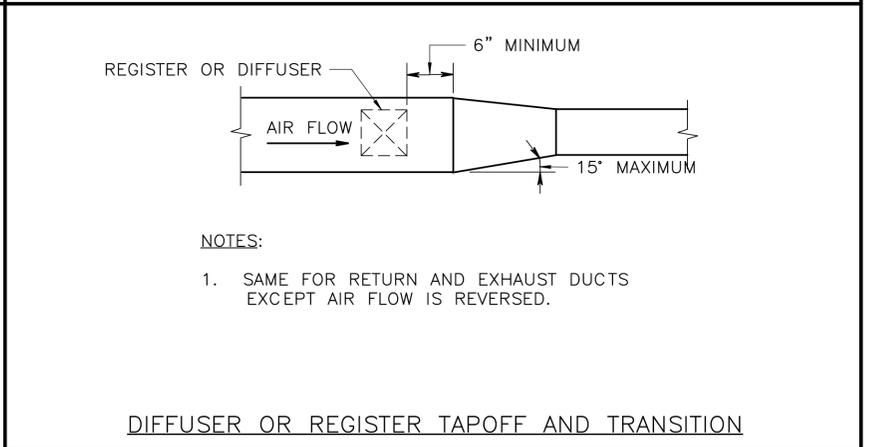
TAPOFF FROM RECTANGULAR DUCT TO ROUND DUCT



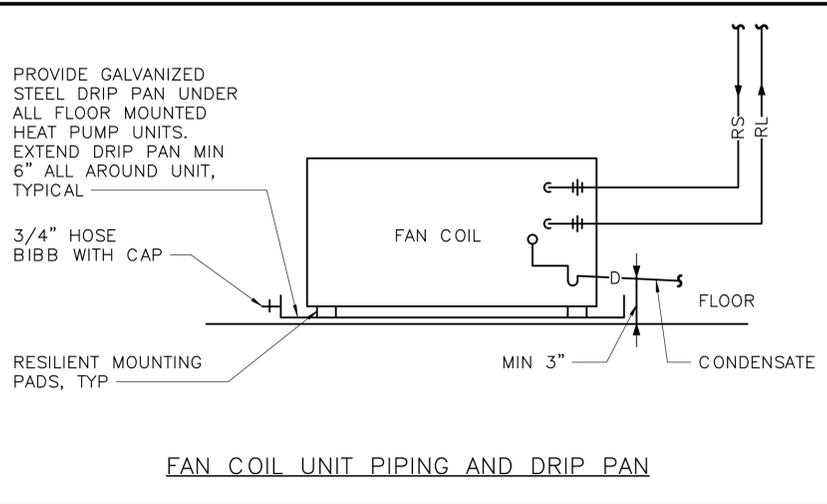
DUCT SPLITS



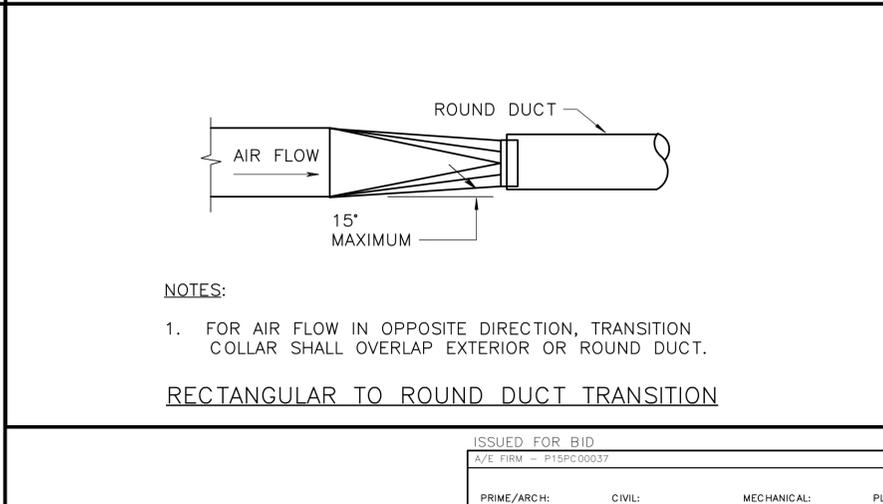
TAPOFF AND TRANSITION FROM SIDE OF DUCT



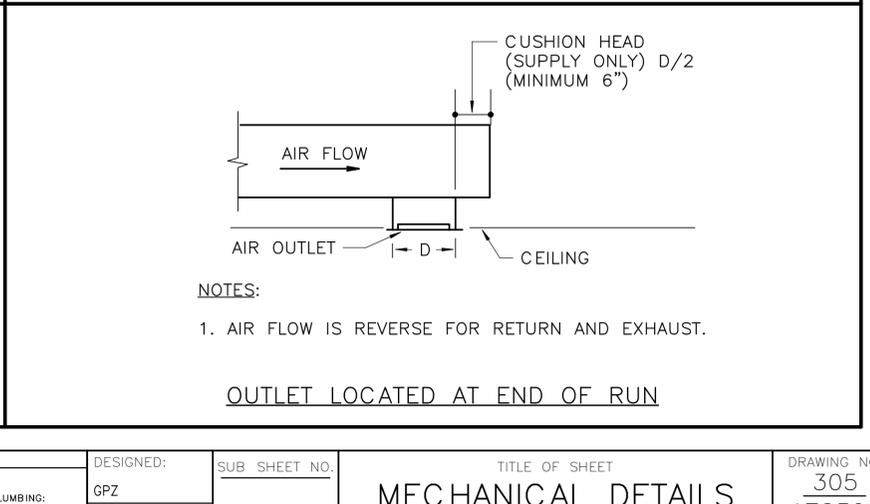
DIFFUSER OR REGISTER TAPOFF AND TRANSITION



FAN COIL UNIT PIPING AND DRIP PAN



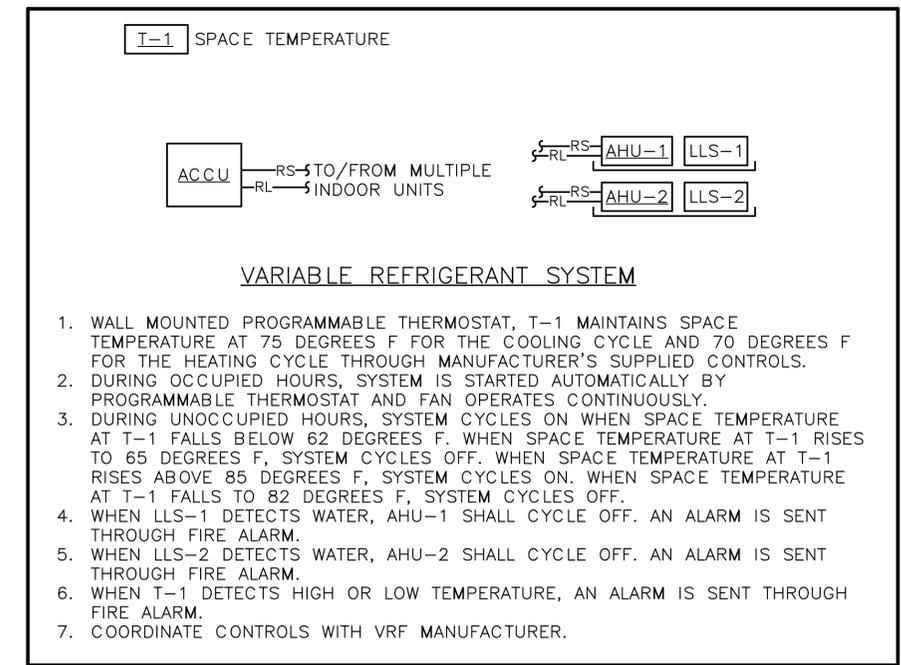
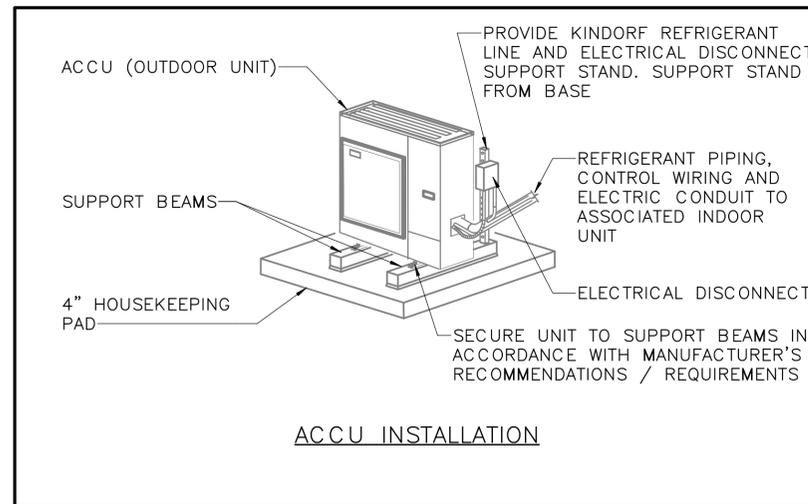
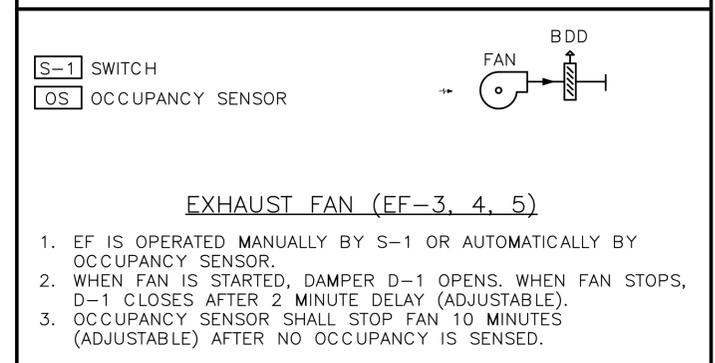
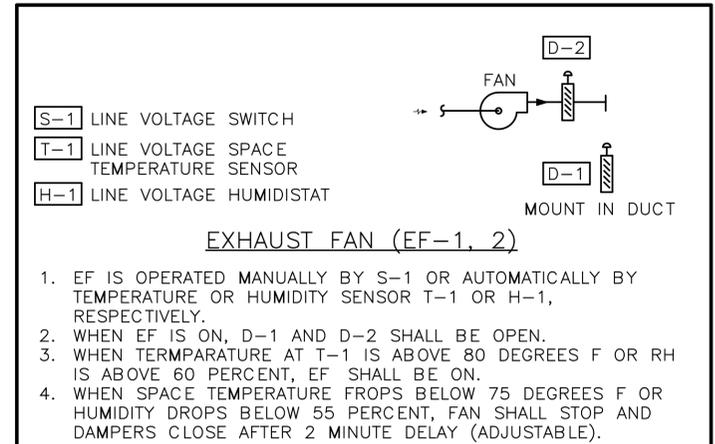
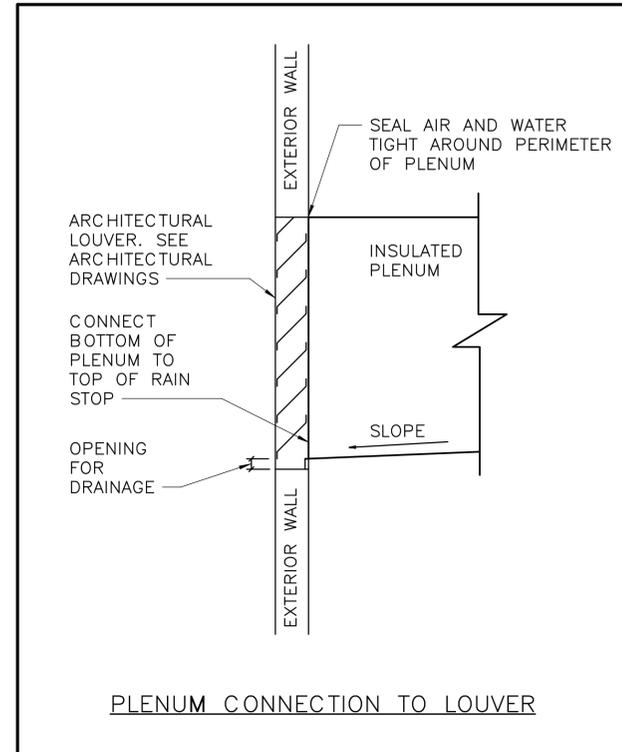
RECTANGULAR TO ROUND DUCT TRANSITION



OUTLET LOCATED AT END OF RUN

ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. M5.1	TITLE OF SHEET MECHANICAL DETAILS	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	M5.1	GETTYSBURG NATIONAL MILITARY PARK	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			51 of 95

2/4/2022 10:17:24 AM C:\Revit Projects 2021\14-N009-ZI Mech Central (2021)_zawodniak\YP7F.rvt



ISSUED FOR BID				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
A/E FIRM -- P15PC00037				GPZ	M6.1	AUTOMATIC TEMPERATURE CONTROLS AND DETAILS	305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SRH			PMIS/PKG NO. 257363
				DATE: 02/28/2022			SHEET
						GETTYSBURG NATIONAL MILITARY PARK	

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				DESIGNED: GPZ	SUB SHEET NO. M7.1	TITLE OF SHEET MECHANICAL SCHEDULES	DRAWING NO. 305
PRIME/ARCH: GWWD, 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			53 of 95
						GETTYSBURG NATIONAL MILITARY PARK	

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)

- 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.
- 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.
- 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.
- 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.
- 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.
- COORDINATE ALL PLUMBING WORK WITH MECHANICAL WORK, ELECTRICAL WORK, AND WORK OF OTHER TRADES.
- 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.
- 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.
- ELEVATIONS NOTED ARE TO CENTERLINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES.
- INSTALL PIPING SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE.
- UNLESS OTHERWISE NOTED, ROUTE ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- MAINTAIN MINIMUM 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL ROOMS.
- 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.
- 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.
- 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.
- 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.
- PROVIDE SHUTOFF VALVES IN DOMESTIC WATER SYSTEMS IN BRANCH LINES SERVING TWO OR MORE FIXTURES.
- 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.
- 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.
- 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".
- USE OF COMBINATION WYE OR CROSS-TEE FITTINGS IN THE PLUMBING SANITARY SYSTEM IS NOT PERMITTED.
- REFER TO SPECIFICATION SECTION 232000 FOR PLUMBING SYSTEM PIPING REQUIREMENTS. PVC PIPE IS NOT PERMITTED IN CEILING RETURN AIR PLENUM APPLICATIONS.
- ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.
- MAINTAIN MINIMUM OF 3'-0" COVER OVER UNDERGROUND WATER MAIN AND MINIMUM OF 2'-6" COVER OVER UNDERGROUND SEWERS AND DRAINS.

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ISSUED FOR BID

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

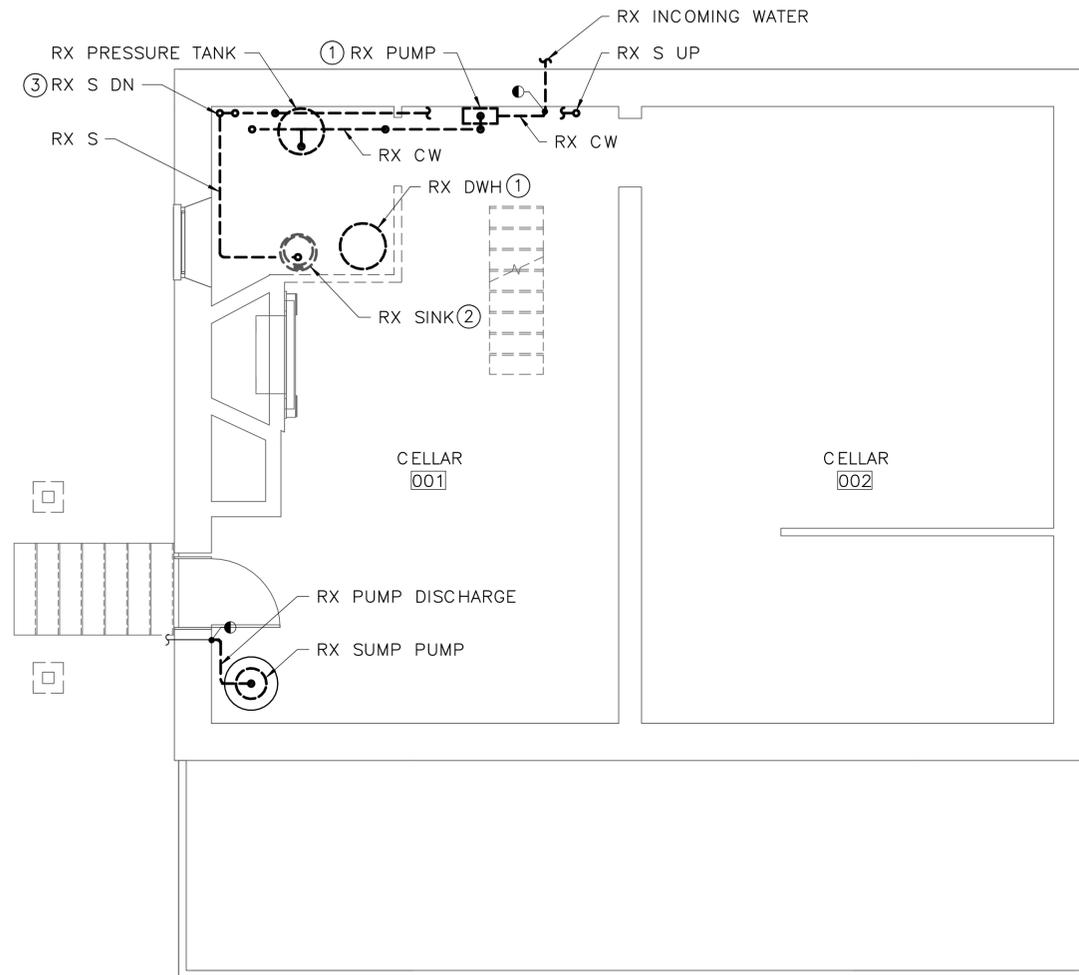
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- 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)

- REMOVE ALL ASSOCIATED PIPING, WIRING, CONTROLS, ETC. BACK TO INSIDE OF CELLAR EXTERIOR WALL AND CAP.
- REMOVE ASSOCIATED CW, HW, SAN, AND VENT PIPES BACK TO INSIDE OF CELLAR EXTERIOR WALL AND CAP. VALVE ALL PRESSURE PIPING.
- REMOVE SANITARY PIPE DOWN TO FLOOR AND CAP



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



ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. PD1.1	TITLE OF SHEET CELLAR — DEMOLITION — PLUMBING	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: 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
GETTYSBURG NATIONAL MILITARY PARK							

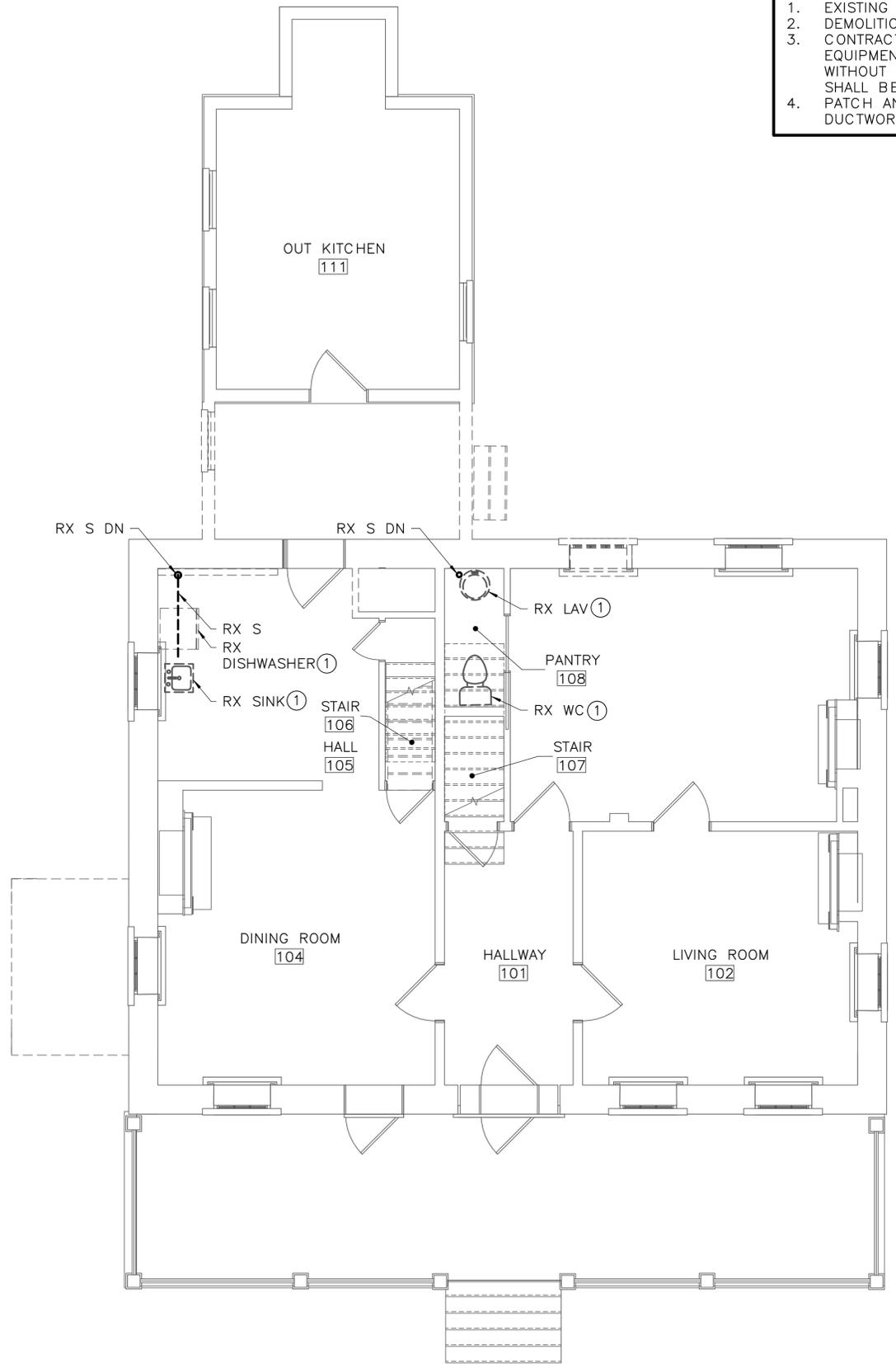
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- 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 CONFIMATION 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)

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



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



ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. PD1.2	TITLE OF SHEET FIRST FLOOR — DEMOLITION — PLUMBING	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: GPZ	SCALE (B)	GETTYSBURG NATIONAL MILITARY PARK	178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SRH			PMIS/PKG NO. 257363
				DATE: 02/28/2022			SHEET

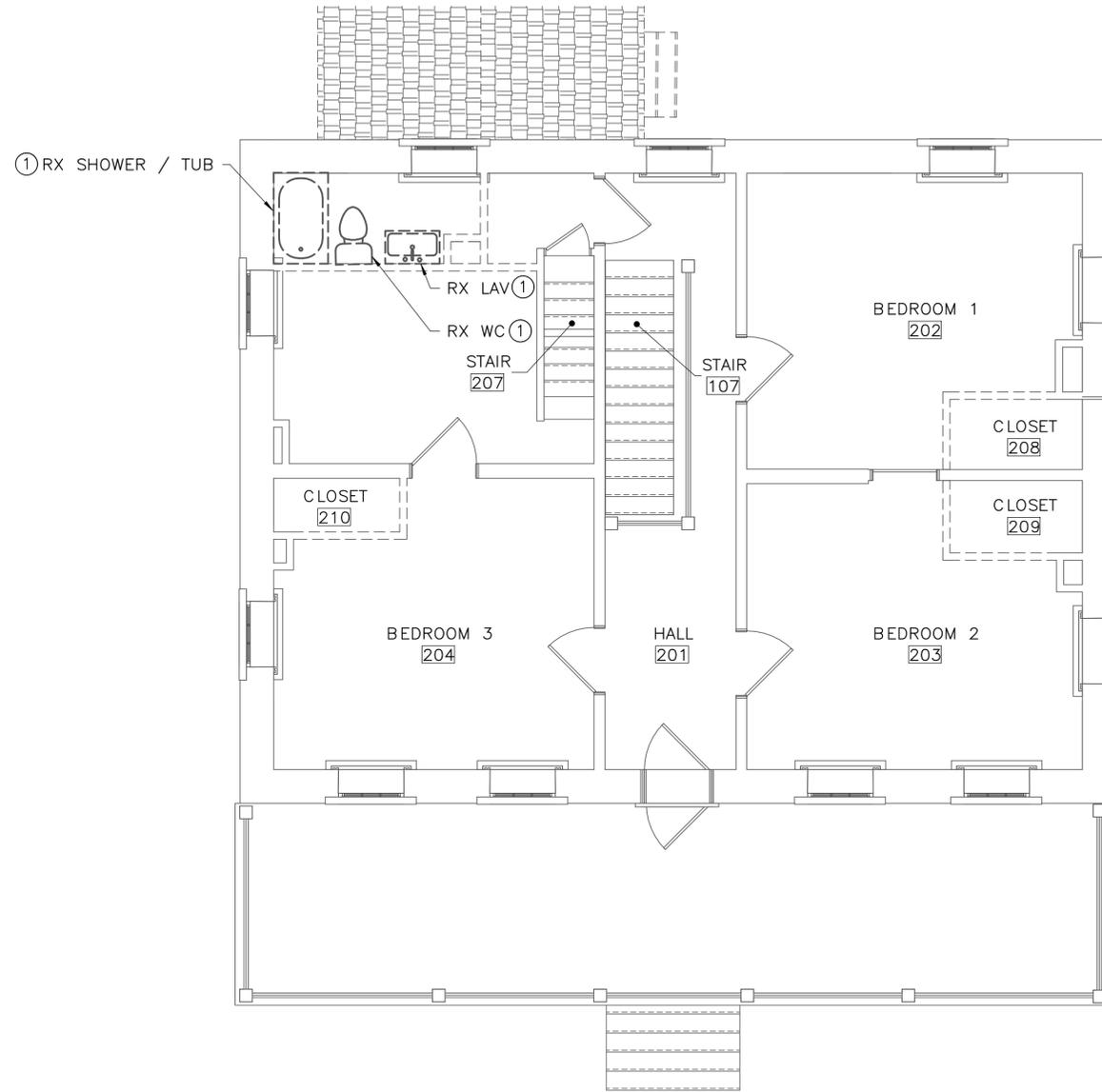
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

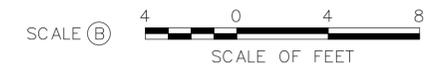
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
- DEMOLITION SHOWN WITH HEAVY WEIGHT, DASHED LINE, - - - - -
- CONTRACTOR SHALL IDENTIFY REMOVAL OF ALL PLUMBING PIPING AND EQUIPMENT AND REVIEW WITH COR BEFORE REMOVING. WORK REMOVED WITHOUT PRIOR CONFIRMATION THAT WAS NOT INTENDED TO BE REMOVED SHALL BE 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)

- 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)

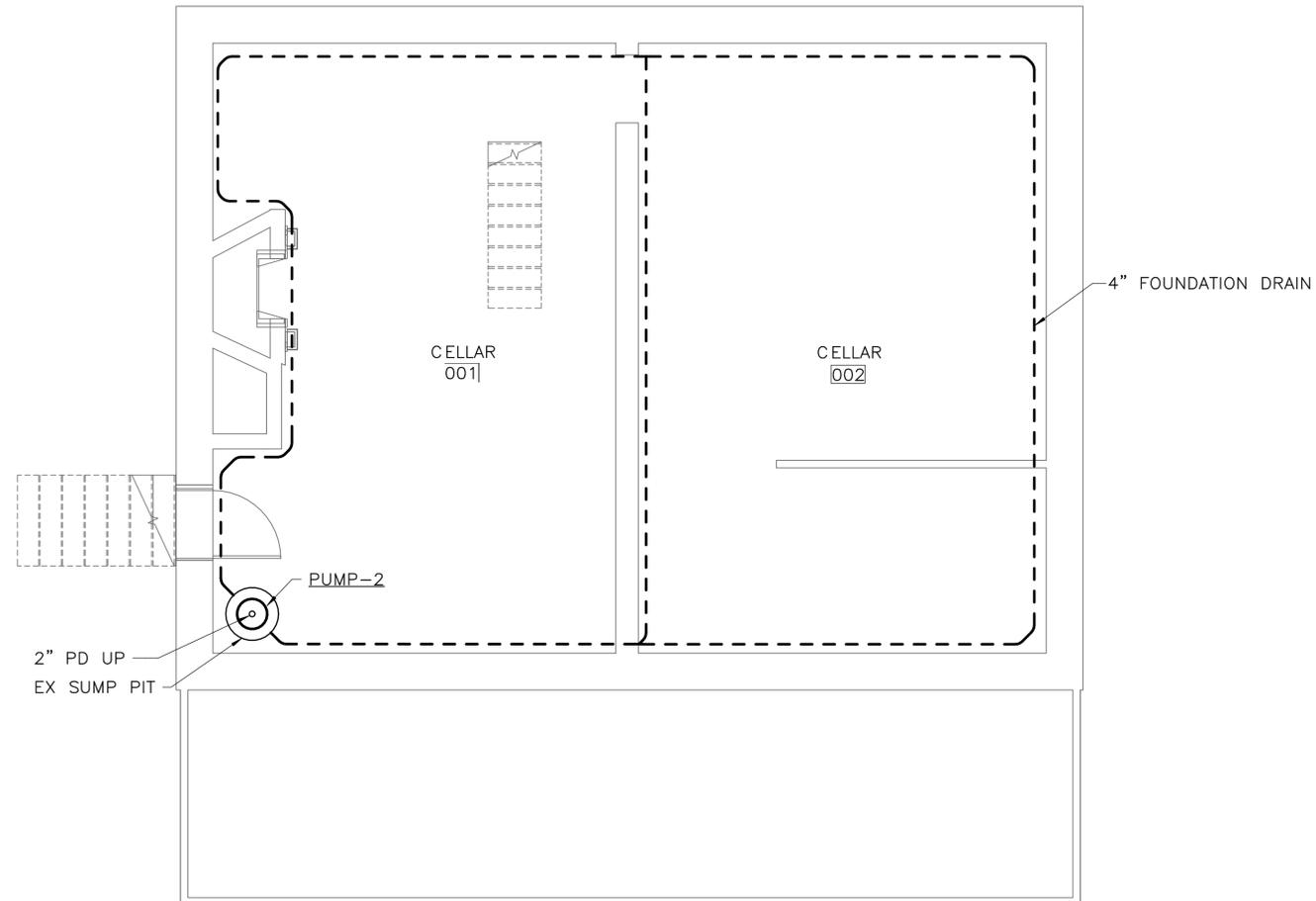


ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. PD1.3	TITLE OF SHEET SECOND FLOOR — DEMOLITION — PLUMBING	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG 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			57 of 95
GETTYSBURG NATIONAL MILITARY PARK							

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
 PO.1 SCALE (A)



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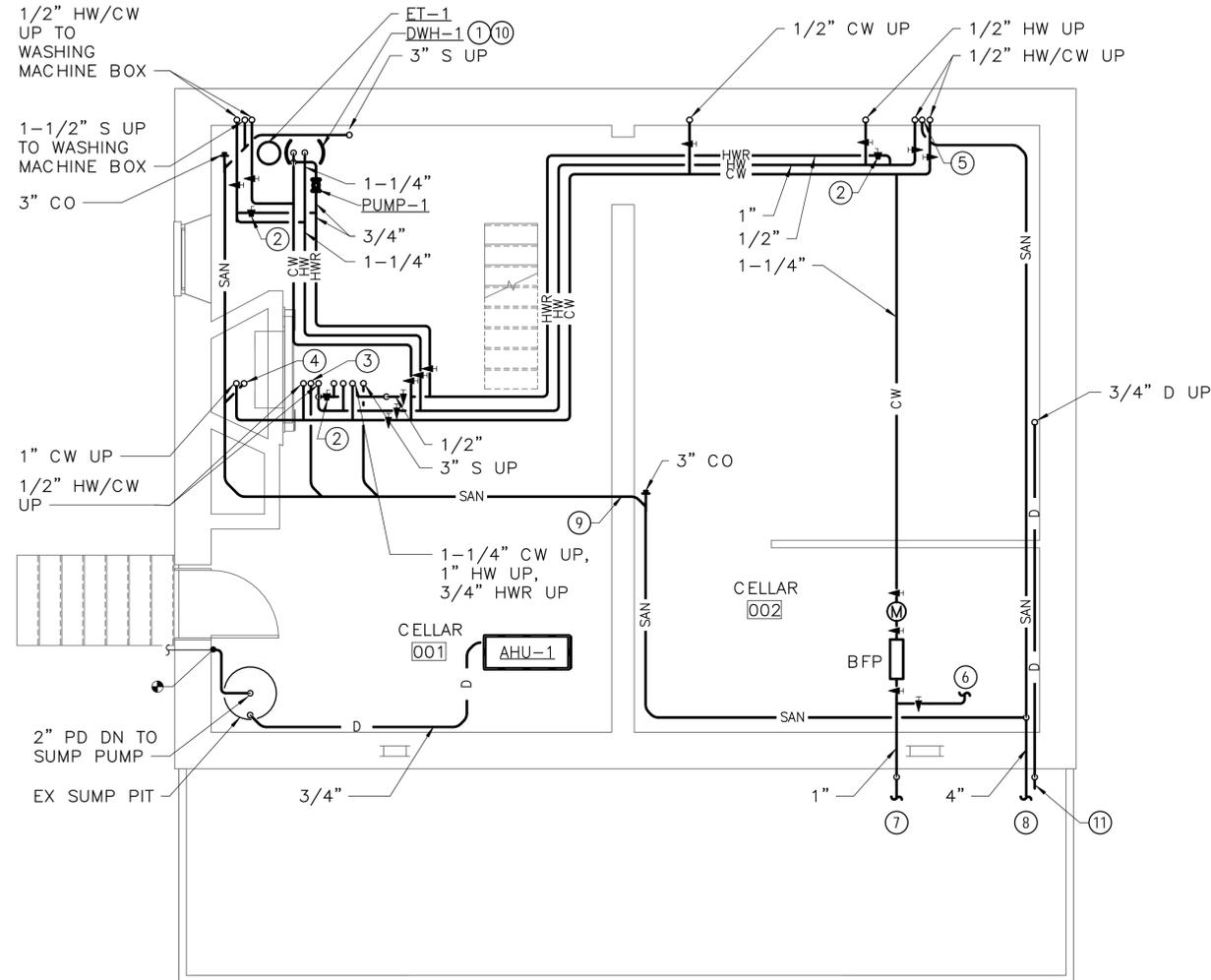
ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. P0.1	TITLE OF SHEET FOUNDATION — NEW WORK — PLUMBING	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 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 58 of 95	GETTYSBURG NATIONAL MILITARY PARK	
				DATE: 02/28/2022			

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 MOUNT IN DRAIN PAN ON 4" HOUSEKEEPING PAD
- ② BALANCE TO 0.5 GPM
- ③ 1-1/2" S UP TO LAV
- ④ 3" S UP TO WC
- ⑤ 1-1/2" S UP TO SINK
- ⑥ SEE DRAWING F1.1 FOR CONTINUATION
- ⑦ INCOMING 1" DOMESTIC WATER SERVICE. SEE CIVIL DRAWINGS FOR CONTINUATION.
- ⑧ 4" S. INV EL 486.0 +/- . SEE CIVIL DRAWINGS FOR CONTINUATION.
- ⑨ ROUTE PIPE THROUGH NEW WALL PENETRATION
- ⑩ SEE DOMESTIC WATER HEATER PIPING DETAIL ON P5.1 FOR MORE INFORMATION
- ⑪ TERMINATE 3/4" D 1'-0" ABOVE GRADE ONTO SPLASH BLOCK BENEATH PORCH



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



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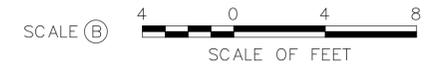
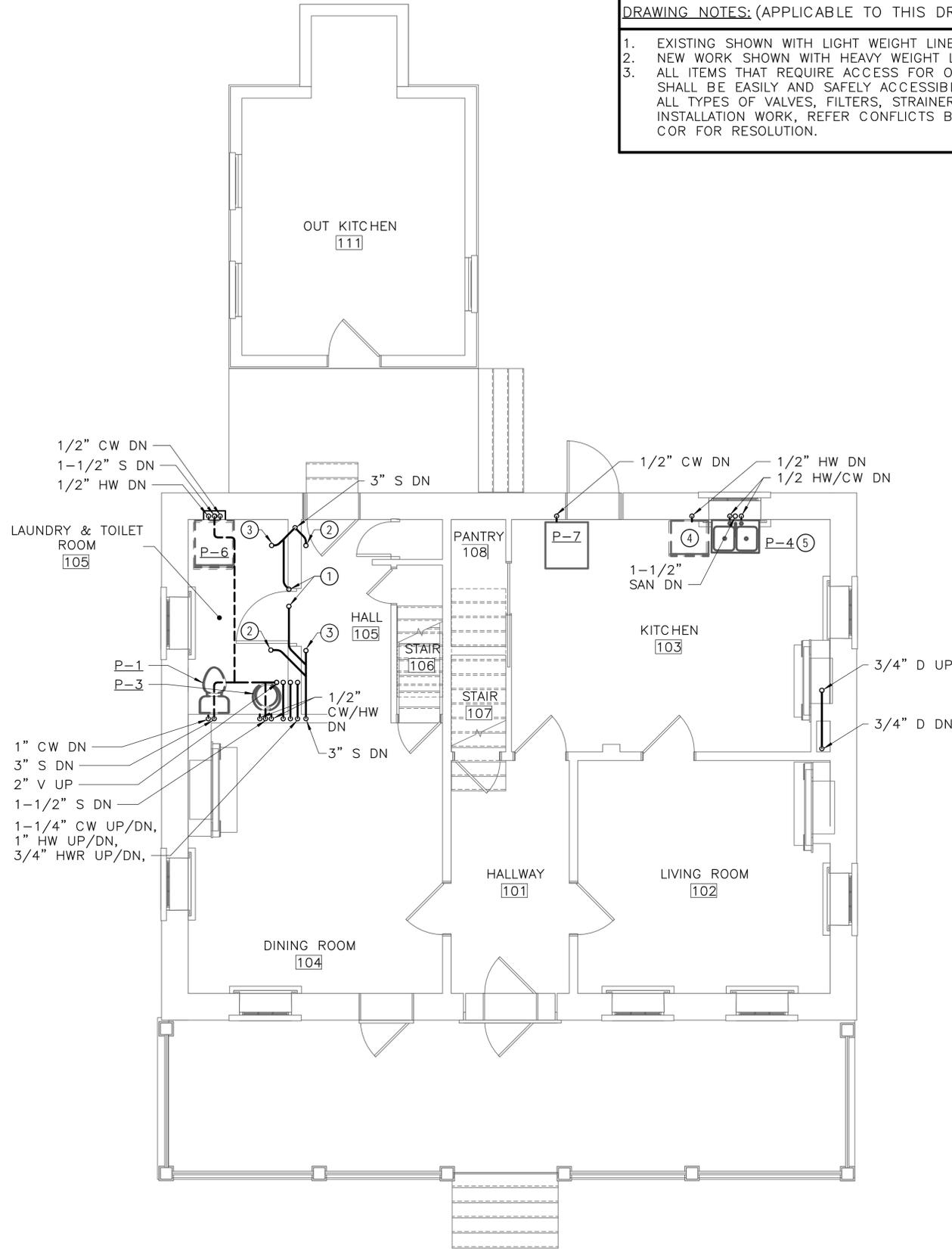
ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. P1.1	TITLE OF SHEET CELLAR - NEW WORK - PLUMBING	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 257363
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			59 of 95
GETTYSBURG NATIONAL MILITARY PARK							

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 1-1/2" S UP TO LAV
- ② 3" S UP TO WC
- ③ 2" S UP TO SH
- ④ PROVIDE HW/SANITARY CONNECTIONS TO DISHWASHER AND GARBAGE DISPOSAL
- ⑤ PROVIDE GARBAGE DISPOSAL



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

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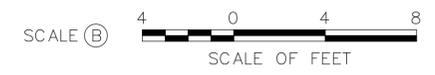
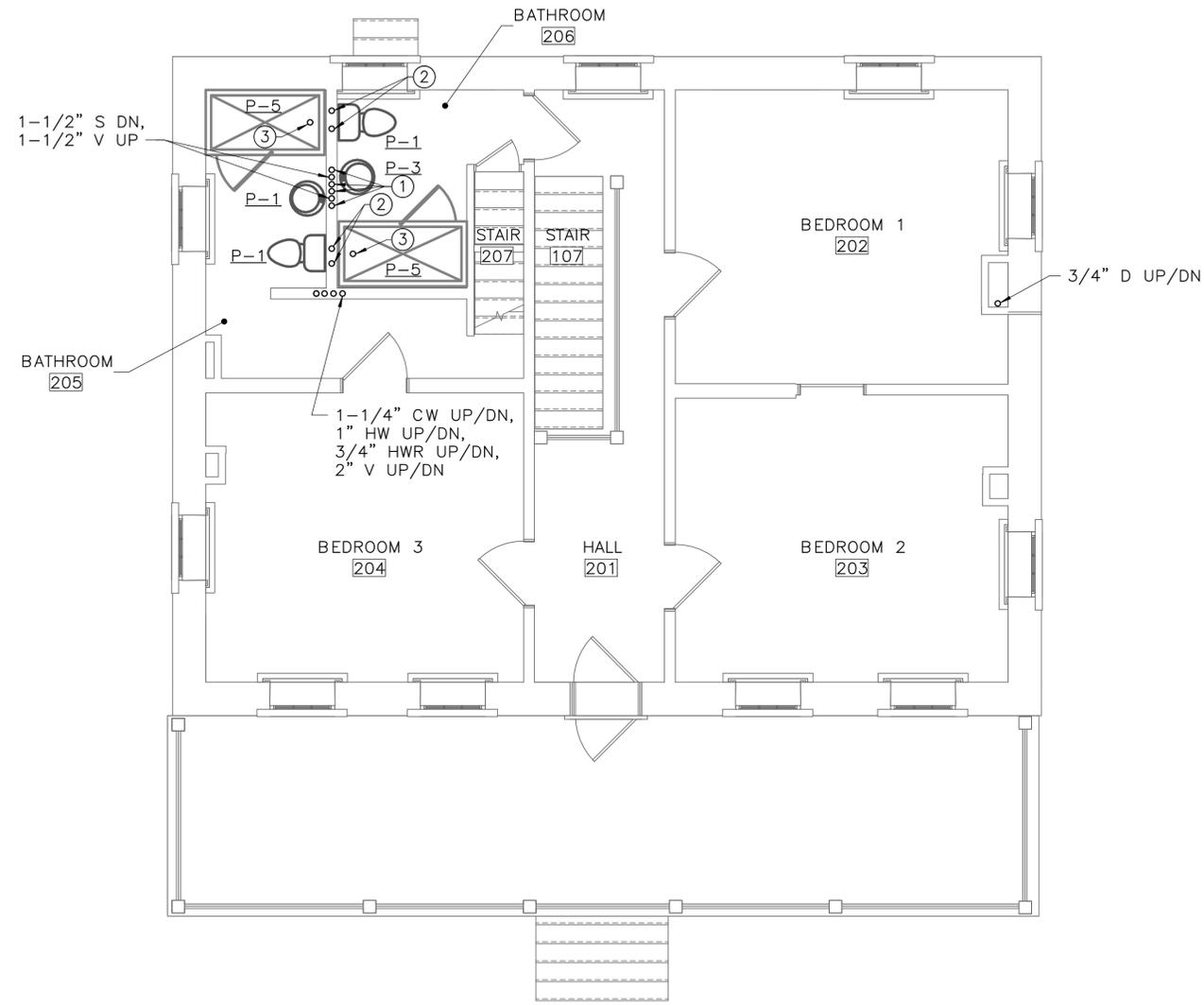
ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. P1.2	TITLE OF SHEET FIRST FLOOR — NEW WORK — PLUMBING	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 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			60 of 95
						GETTYSBURG NATIONAL MILITARY PARK	

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———
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SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

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



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



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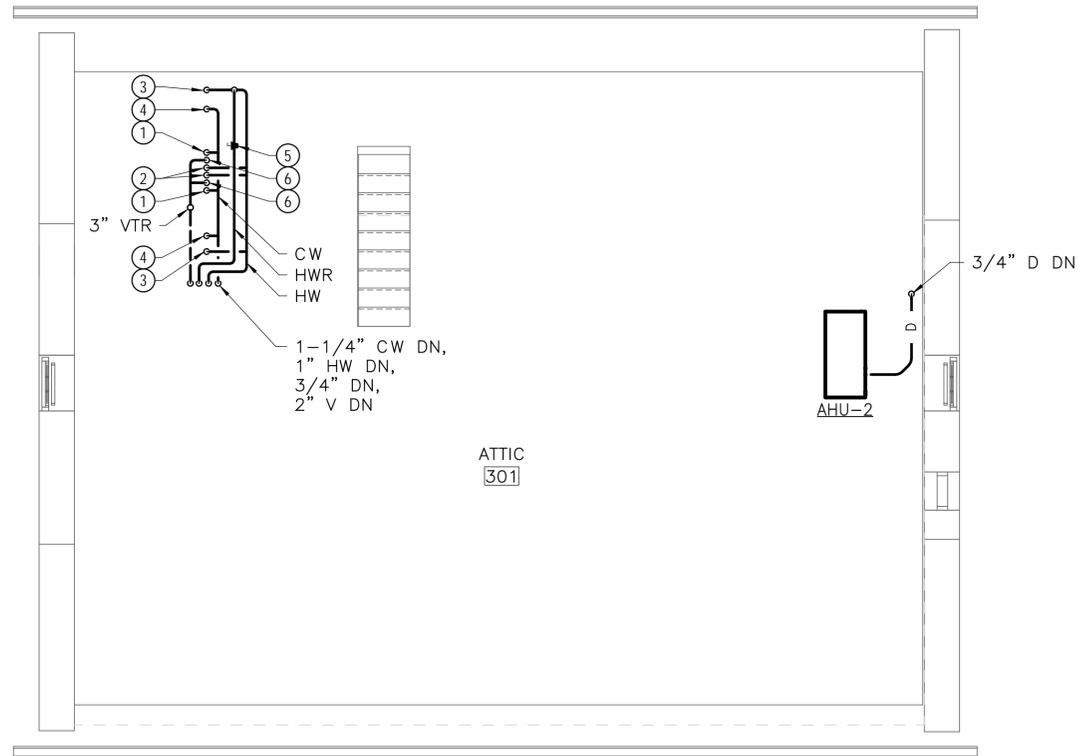
ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. P1.3	TITLE OF SHEET SECOND FLOOR — NEW WORK — PLUMBING	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 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			61 of 95
GETTYSBURG NATIONAL MILITARY PARK							

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)



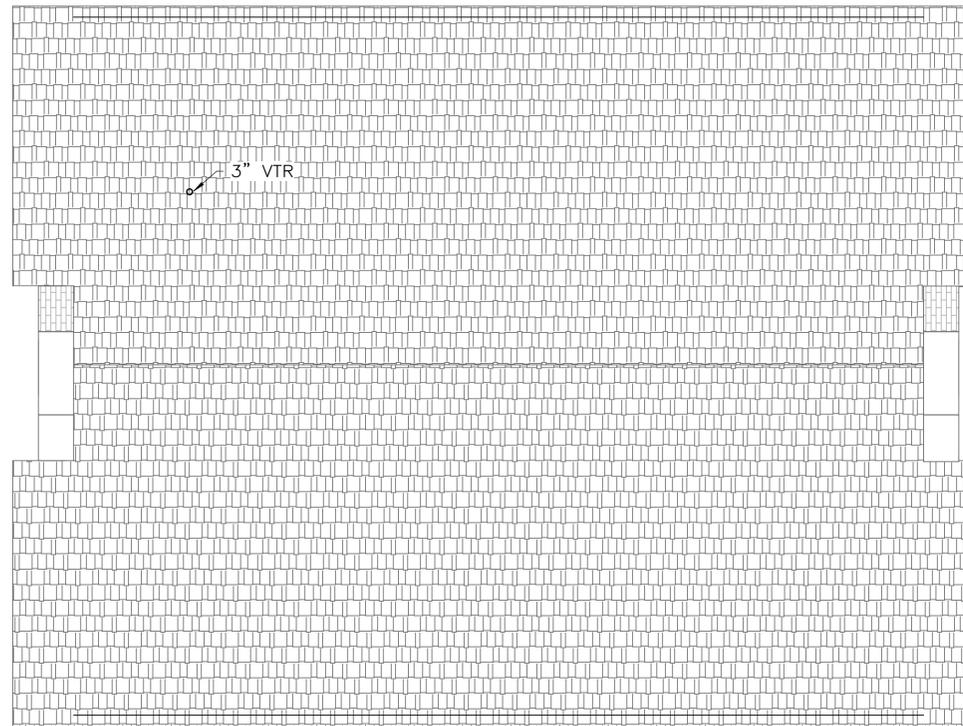
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ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. P1.4	TITLE OF SHEET ATTIC — NEW WORK — PLUMBING	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: 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			62 of 95
GETTYSBURG NATIONAL MILITARY PARK							

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)



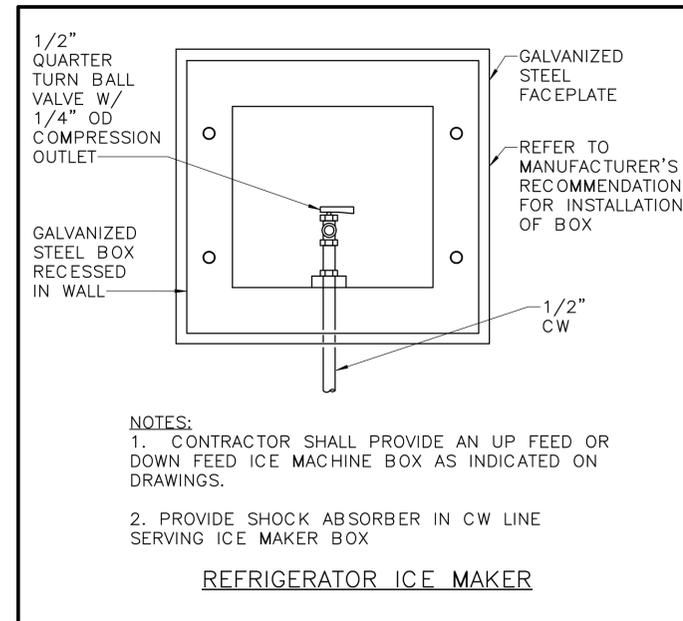
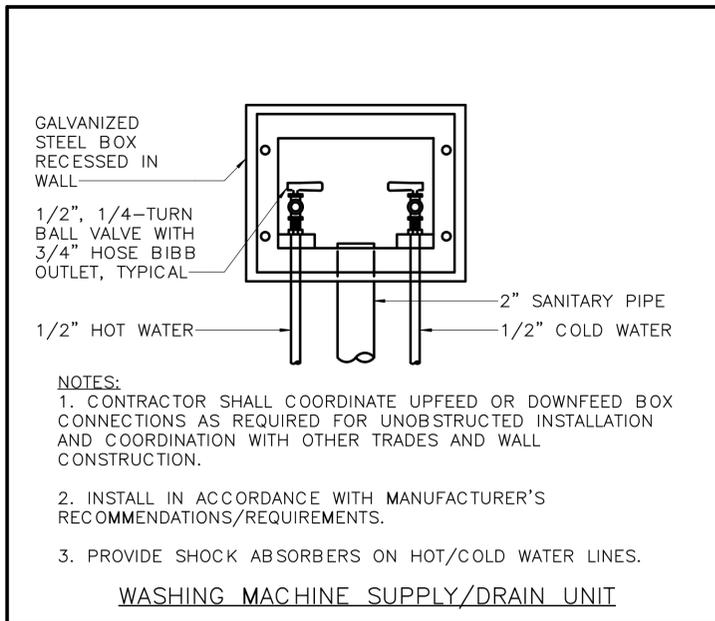
1 ROOF — PLUMBING — NEW WORK
 P1.5 SCALE (B)



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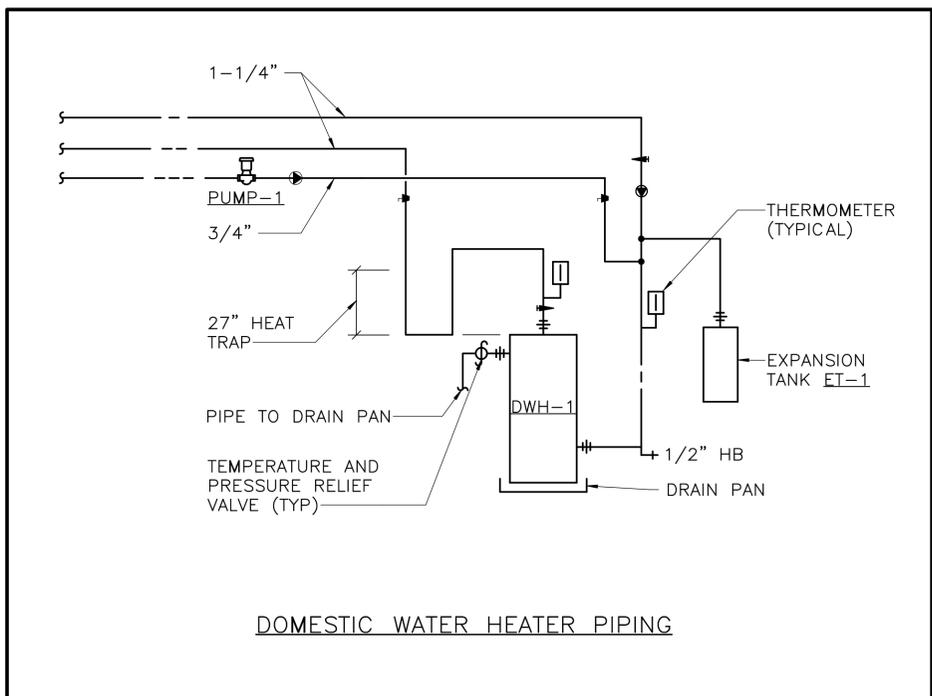
ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. P1.5	TITLE OF SHEET ROOF — NEW WORK — PLUMBING	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG NO. 257363
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			63 of 95
						GETTYSBURG NATIONAL MILITARY PARK	

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GENERAL NOTES: (APPLICABLE TO ALL SCHEDULES)

- UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.
- UNIT SYMBOLS ARE INDICATED WHERE ALL UNITS ARE NOT LISTED AND NUMBERED INDIVIDUALLY.
- UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.
- TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.
- 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	-	-	-	

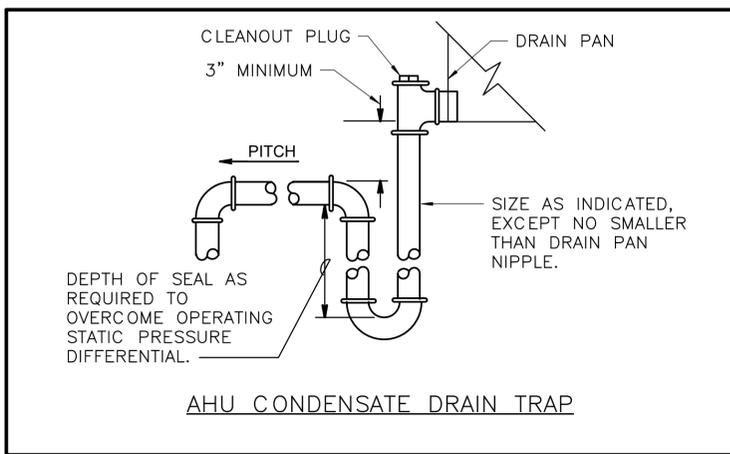
NOTES FOR PLUMBING FIXTURES:

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	

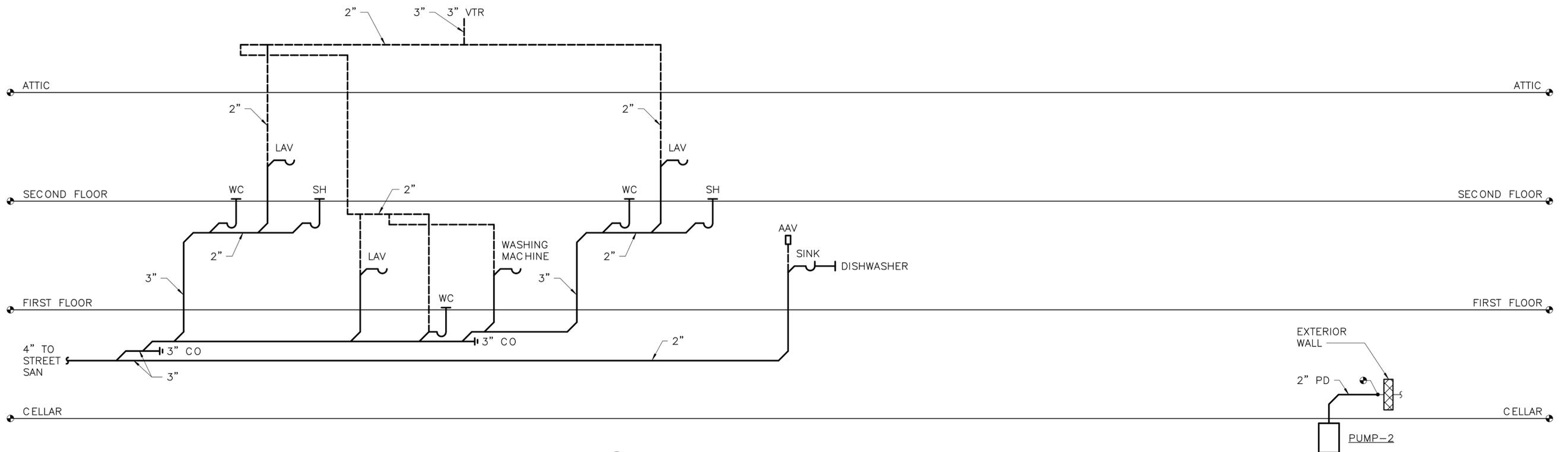
DOMESTIC WATER EXPANSION TANKS							
UNIT NO	LOCATION	SERVICE	APPROX SIZE (DxL)	VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	PIPE SIZE	NOTES
ET-1	001 CELLAR	DOMESTIC HOT WATER	16x16	10	10	3/4	



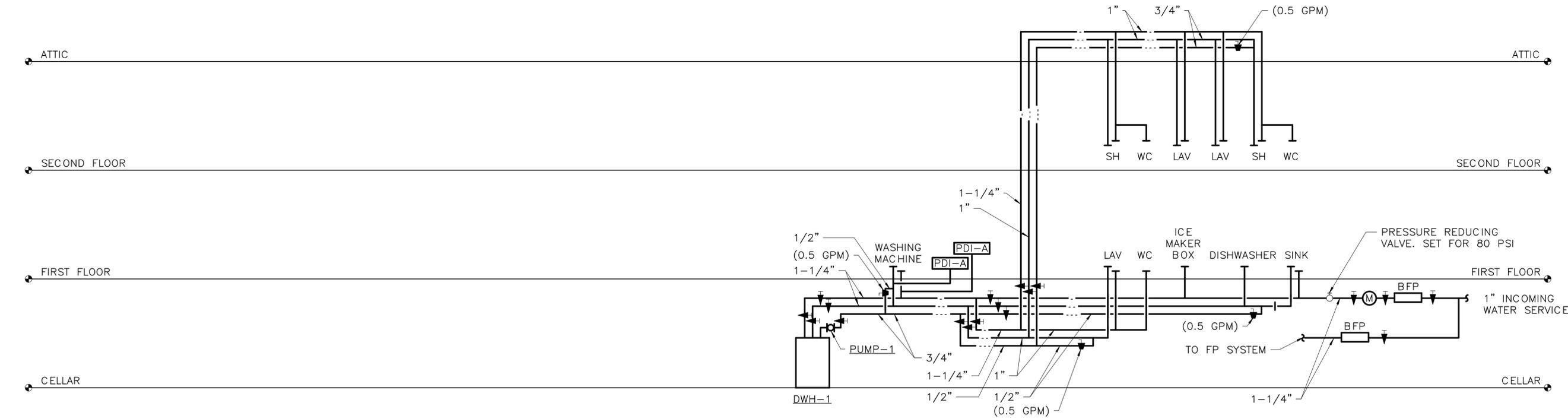
PUMPS										
UNIT NO	TYPE	LOCATION	SERVICE	FLUID	GPM	HEAD FT	HP	RPM	ELECTRICAL VOLTS/HZ/PHASE	NOTES
PUMP-1	J	001 CELLAR	HOT WATER RECIRC	WATER	2.0	6	1/40	3250	220/60/1	
PUMP-2	M	001 CELLAR	SUMP	PUMP DISCHARGE	40.0	15	1/2	3250	220/60/1	

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

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2 SANITARY RISER DIAGRAM
P6.0 NO SCALE



1 DOMESTIC WATER RISER DIAGRAM
P6.0 NO SCALE

ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: GPZ	SUB SHEET NO. P6.0	TITLE OF SHEET PLUMBING RISER DIAGRAMS	DRAWING NO. 305
PRIME/ARCH: GWWD, 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			65 of 95

GETTYSBURG NATIONAL MILITARY PARK

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	
	15cd -- 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 SWITCH
CR1	COLOR RENDERING INDEX	KW	KILOWATTS	SYM	SYMMETRICAL
CT	CURRENT TRANSFORMER	LED	LIGHT EMITTING DIODE	T	TRANSFORMER
CU	COPPER	MCA	MINIMUM CIRCUIT AMPACITY	TA	TRIP AMPERES
CX	CONNECT TO EXISTING	MCB	MAIN CIRCUIT BREAKER	TECH	TECHNOLOGY
DS	DISCONNECT SWITCH	MCCB	MOLDED CASE CIRCUIT BREAKER	TGB	TELECOMMUNICATIONS GROUND BAR
DWG	DRAWING	MCP	MOTOR CIRCUIT PROTECTOR	THD	TOTAL HARMONIC DISTORTION
EBU	EMERGENCY BATTERY UNIT	MGB	MAIN GROUND BAR	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
ECB	ENCLOSED CIRCUIT BREAKER	MIN	MINIMUM	TTB	TELEPHONE TERMINAL BOARD
EF	EXHAUST FAN	MMS	MANUAL MOTOR STARTER	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	MOCP	MAXIMUM OVERCURRENT PROTECTION	UGE	UNDERGROUND ELECTRIC
ENT	ELECTRICAL NONMETALLIC TUBING	MTD	MOUNTED	UH	UNIT HEATER
EQUIP	EQUIPMENT	N	NEUTRAL	UL	UNDERWRITERS LABORATORY
ETR	EXISTING TO REMAIN	NAC	NOTIFICATION APPLIANCE CIRCUIT	UON	UNLESS OTHERWISE NOTED
EX	EXISTING	NC	NORMALLY CLOSED	UTP	UNSHIELDED TWISTED PAIR
F	FUSED, FUSIBLE, FAHRENHEIT	NEC	NATIONAL ELECTRICAL CODE	V	VOLTS
FA	FIRE ALARM	NF	NON-FUSED	VA	VOLT-AMPERES
FAAP	FIRE ALARM ANNUNCIATOR PANEL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	W	WIRE, WATTS
FACP	FIRE ALARM CONTROL PANEL	Y	WYE	W/	WITH
FCU	FAN COIL UNIT			WP	WEATHERPROOF
FDR	FEEDER			WR	WEATHER RESISTANT
FLA	FULL LOAD AMPERAGE			XFMR	TRANSFORMER
FSS	FUSED SAFETY SWITCH				

ISSUED FOR BID				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
A/E FIRM -- P15PC00037				JLW	E0.1	ELECTRICAL COVER SHEET	305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD:			178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW:			PMIS/PKG NO. 257363
				JUST			SHEET
				DATE: 02/28/2022	GETTYSBURG NATIONAL MILITARY PARK		66 of 95

GENERAL ELECTRICAL NOTES
(APPLICABLE TO ALL ELECTRICAL DRAWINGS)

1. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, DELEGATED DESIGN AND INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
2. PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION.
3. MATERIAL AND EQUIPMENT SHALL BE LISTED AND LABELED BY NATIONALLY RECOGNIZED TESTING LABORATORIES FOR INTENDED SERVICE.
4. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
5. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET SHALL BE COMPLETE, CURRENT, AND AVAILABLE UPON REQUEST.
6. SUBMIT FOR APPROVAL, SHOP DRAWINGS FOR EQUIPMENT AND MATERIALS USED ON PROJECT. OBTAIN APPROVAL BY CONTRACTING OFFICER PRIOR TO PURCHASE OF EQUIPMENT AND MATERIALS.
7. REPAIR OR REPLACE DAMAGE CAUSED BY THE CONTRACTOR TO FACILITIES AND EQUIPMENT AT NO ADDITIONAL EXPENSE TO GOVERNMENT.
8. PATCH AND REPAIR DISTURBED AREAS TO MATCH ADJACENT SURFACES AND FINISHES.
9. PROVIDE TEMPORARY POWER AND LIGHTING FOR OTHER TRADES AS REQUIRED TO COMPLETE PROJECT IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
10. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED ON RISER DIAGRAMS WHETHER OR NOT INDICATED ON PLANS, AND VICE VERSA.
11. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH OTHER TRADES. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW REQUIRED OFFSETS AND DETAILS. OBTAIN DRAWINGS AND SPECIFICATIONS FROM OTHER TRADES AND COORDINATE WITH OTHER TRADES.
12. COORDINATE ELECTRICAL INSTALLATION WITH FIELD CONDITIONS. LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY REQUIRE ADJUSTMENT IN FIELD.
13. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS, AND CASEWORK DETAILS PRIOR TO INSTALLATION.
14. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
15. PERMANENTLY LABEL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION.
16. PROVIDE EACH CIRCUIT WITH A DEDICATED NEUTRAL UNLESS NOTED OTHERWISE.
17. CONDUIT HOMERUNS SHOWN ON DRAWINGS WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. DO NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY UNLESS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
18. INSTALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. INSTALL RACEWAYS TIGHT TO STRUCTURAL CEILING AND AS HIGH AS POSSIBLE WITHIN CEILING SPACES TO MAINTAIN MAXIMUM AMOUNT OF CLEAR SPACE BELOW RACEWAY.
19. INSTALL RACEWAYS CONCEALED IN BUILDING FINISHES FOR ALL EXTERIOR MOUNTED DEVICES. DO NOT ROUTE EXPOSED ON BUILDING EXTERIOR.
20. INSTALL RACEWAYS CONCEALED IN WALLS, UNDER FLOORS, ABOVE CEILINGS, ETC., EXCEPT AS FOLLOWS:
 -WHERE SUSPENDED CEILINGS ARE NOT PROVIDED
 -IN VERTICAL SHAFTS, ELECTRICAL CLOSETS, ETC., MECHANICAL AND ELECTRICAL EQUIPMENT SPACES WHERE CONCEALMENT IS NOT PRACTICAL.
 -AT SURFACE-MOUNT PANELBOARDS IN OTHERWISE FINISHED SPACES LIMITED TO VERTICAL RUNS ABOVE AND BELOW PANEL
 -WHERE REQUIRED FOR EQUIPMENT CONNECTIONS
 -WHERE SPECIFICALLY INDICATED ON DRAWINGS
21. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO OVERCURRENT PROTECTION, CONDUIT, AND WIRING, COORDINATE AND MAKE CHANGE TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES.
22. PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES. COORDINATE EXACT LOCATION IN FIELD. DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURER'S RECOMMENDED MAINTENANCE CLEARANCES.

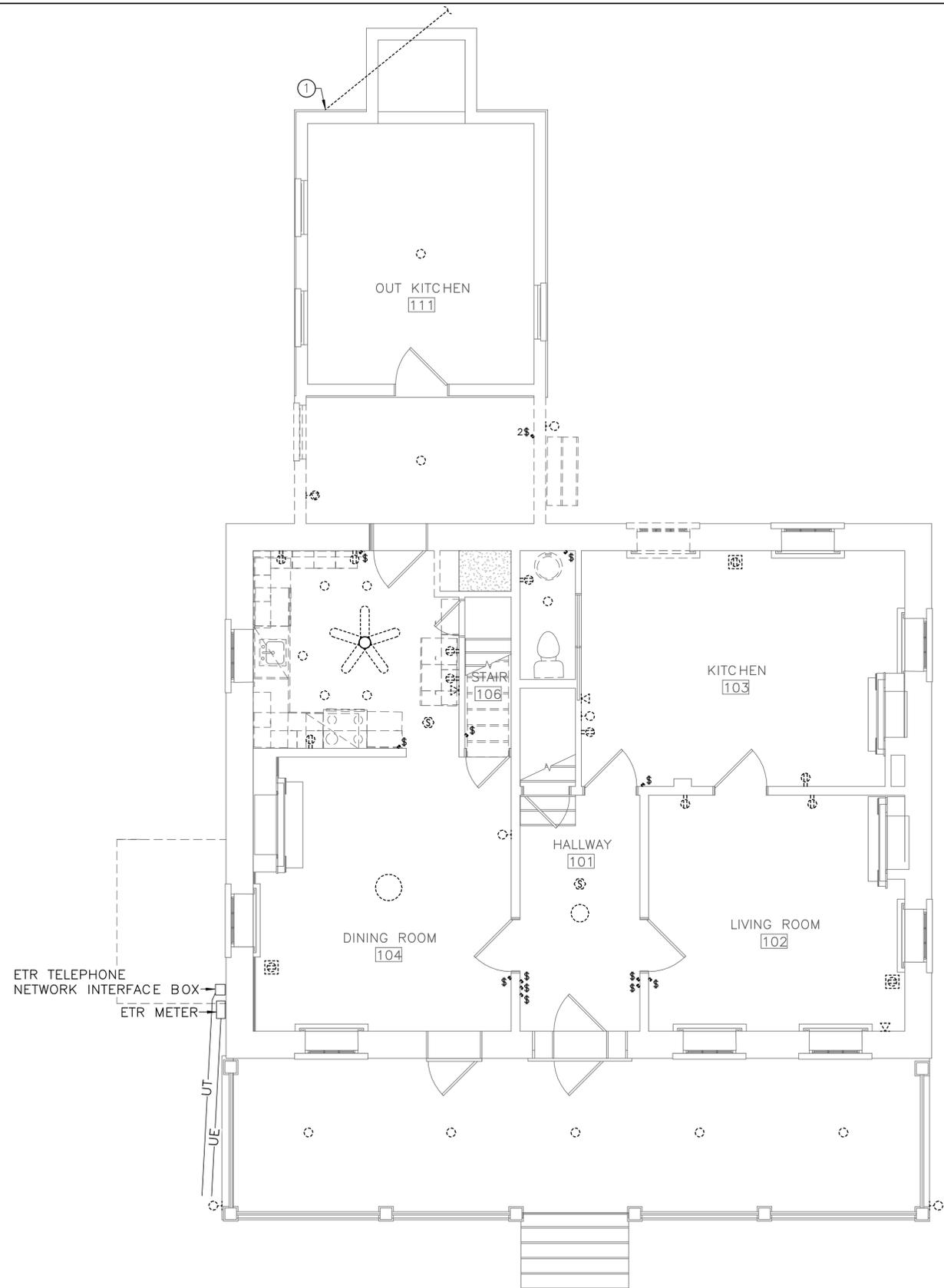
GENERAL ELECTRICAL DEMOLITION/RENOVATION NOTES
(APPLICABLE TO ALL ELECTRICAL DRAWINGS)

1. THE FACILITY WILL NOT REMAIN OCCUPIED DURING RENOVATIONS.
2. MINIMIZE OUTAGES. COORDINATE OUTAGES WITH CONTRACTING OFFICER.
3. IDENTIFY NONFUNCTIONING EQUIPMENT AND DEVICES TO REMAIN AFTER DEMOLITION. NOTIFY CONTRACTING OFFICER IN WRITING PRIOR TO DEMOLITION. UPON COMPLETION OF WORK, ENSURE THAT EXISTING EQUIPMENT AND DEVICES OPERATE PROPERLY.
4. IN AREAS REQUIRING THE PERFORMANCE OF WORK OF OTHER TRADES, CAREFULLY DISCONNECT, MAKE SAFE, REMOVE AND STORE ELECTRICAL ITEMS IN PATH OF WORK. REINSTALL AND RECONNECT SAME AFTER COMPLETION OF OTHER TRADE'S WORK. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.
5. AFTER DEMOLITION VERIFY AND SUPPORT REMAINING CABLES, WIRES, AND CONDUIT IN ACCORDANCE WITH THE APPLICABLE VERSION OF THE NEC. DISCONNECT, MAKE SAFE AND REMOVE ABANDONED AND TEMPORARY WIRE WITHIN SPACE.
6. EXISTING CONDITIONS REFLECT GENERAL OBSERVATIONS AND ARE NOT INTENDED TO INDICATE DETAILS OR DIMENSIONS. NO ATTEMPT HAS BEEN MADE TO SHOW ALL ELECTRICAL EQUIPMENT. VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. NOTIFY CONTRACTING OFFICER IN WRITING IF CONDITIONS ARE DISCOVERED THAT PREVENT EXECUTION OF WORK.
7. PROTECT REMAINING ELECTRICAL SYSTEMS AND COMPONENTS FROM DAMAGE. REMOVE PROTECTIVE MATERIALS UPON COMPLETION OF WORK.
8. IN AREAS NOTED TO REMOVE ELECTRICAL WORK, REMOVE CONDUITS AND ASSOCIATED SUPPORTS BACK TO POINT OF CONCEALMENT AND REMOVE WIRING BACK TO REMAINING ACTIVE DEVICES OR SOURCE.
9. DISPOSE OF LIGHTING BALLASTS AND CAPACITORS CONTAINING PCB'S, AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA), IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, FEDERAL AND EPA REGULATIONS.
10. PROVIDE CONTRACTING OFFICER WITH INVENTORY OF MAJOR ELECTRICAL ITEMS TO BE REMOVED. CONTRACTING OFFICER WILL SELECT ITEMS TO BE SALVAGED. TURN SALVAGED ITEMS OVER TO CONTRACTING OFFICER. ITEMS REJECTED BY CONTRACTING OFFICER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE DEMOLISHED ITEMS FROM SITE.
11. REPAIR DISTURBED AREAS TO MATCH EXISTING CONDITIONS.
12. MAINTAIN CONTINUITY OF CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION IN PANELS INDICATED TO BE DEMOLISHED OR REPLACED. EXTEND EXISTING CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION TO NEW PANELS.

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ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: JLW	SUB SHEET NO. E0.2	TITLE OF SHEET ELECTRICAL GENERAL NOTES	DRAWING NO. 305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW			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: JUST			SHEET
				DATE: 02/28/2022			GETTYSBURG NATIONAL MILITARY PARK

2/5/2022 11:16:36 AM C:\Revit Projects 2021\14-N009-ZI Elec Central (2021)_winemiller.rvt



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.



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

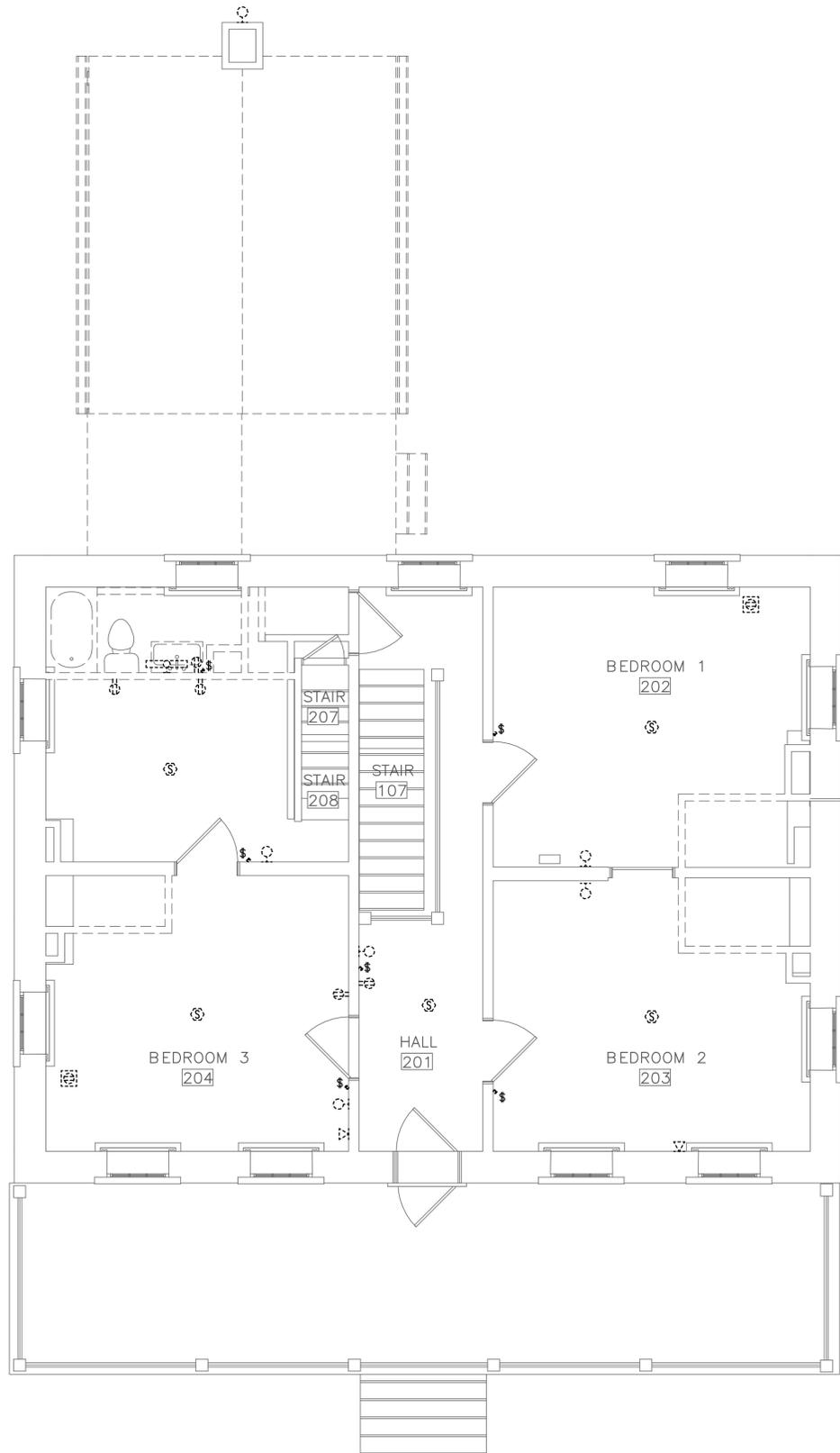
DESIGNED: JLW
CADD: JLW
TECH. REVIEW: JUST
DATE: 02/28/2022

SUB SHEET NO. ED1.1

TITLE OF SHEET
FIRST FLOOR – ELECTRICAL DEMOLITION
GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO. 305
178321
PMIS/PKG NO. 257363
SHEET 69 of 95

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

SUB SHEET NO. ED1.2

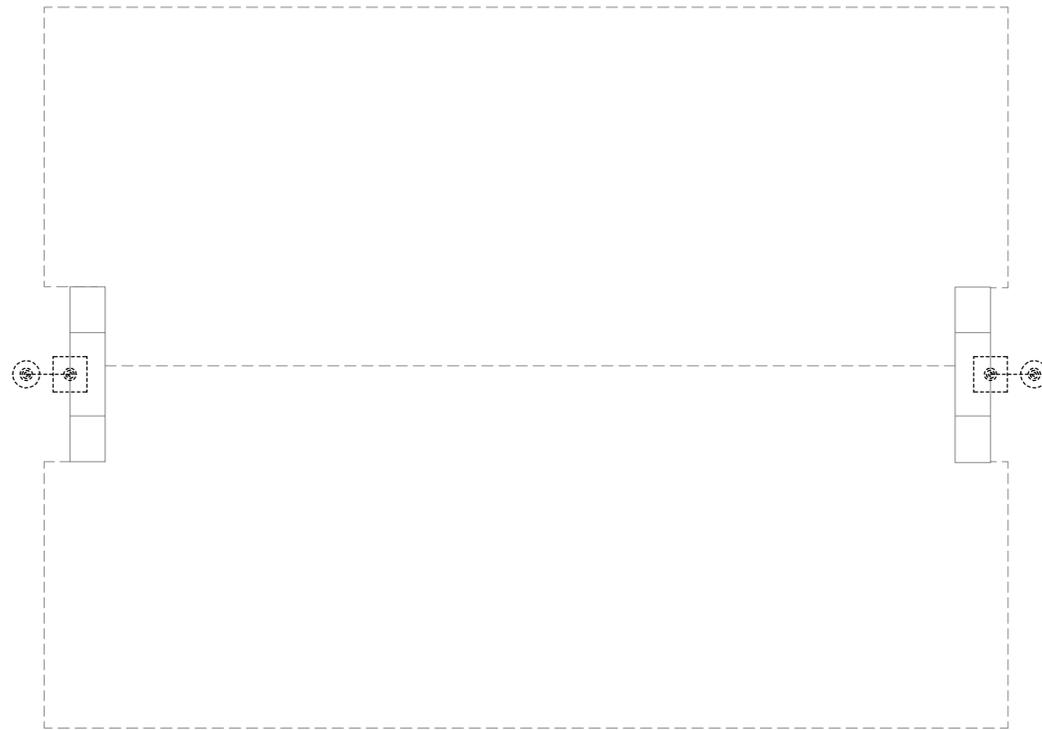
TITLE OF SHEET SECOND FLOOR — ELECTRICAL DEMOLITION
GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO. 305
178321
PMIS/PKG NO. 257363
SHEET 70 of 95

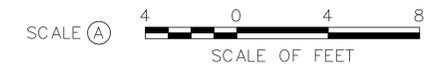
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DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

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

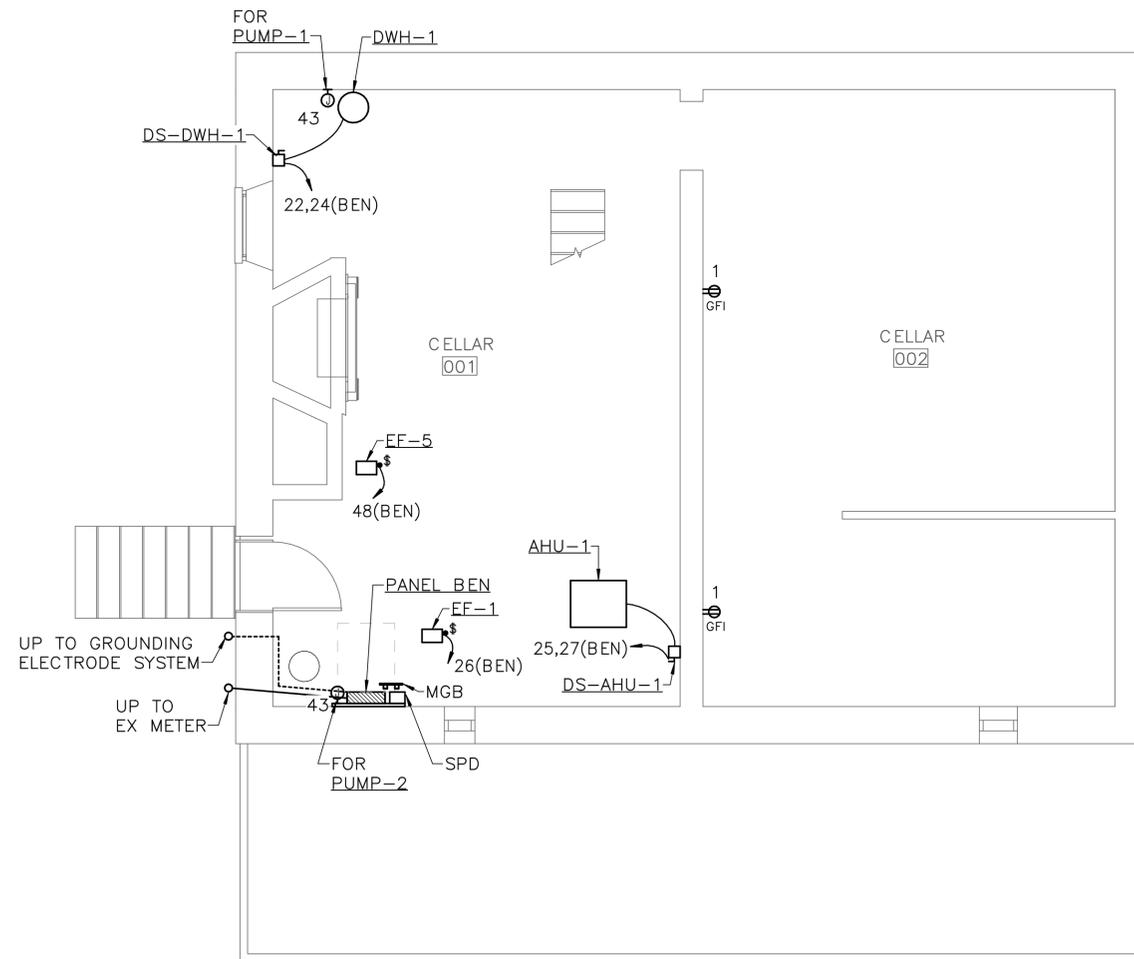


ISSUED FOR BID				DESIGNED:	SUB SHEET NO. ED1.3	TITLE OF SHEET ROOF — ELECTRICAL DEMOLITION	DRAWING NO.
A/E FIRM — P15PC00037				JLW			305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW			PMIS/PKG NO.
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: JST			257363
				DATE: 02/28/2022		GETTYSBURG NATIONAL MILITARY PARK	SHEET
							71 of 95

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DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

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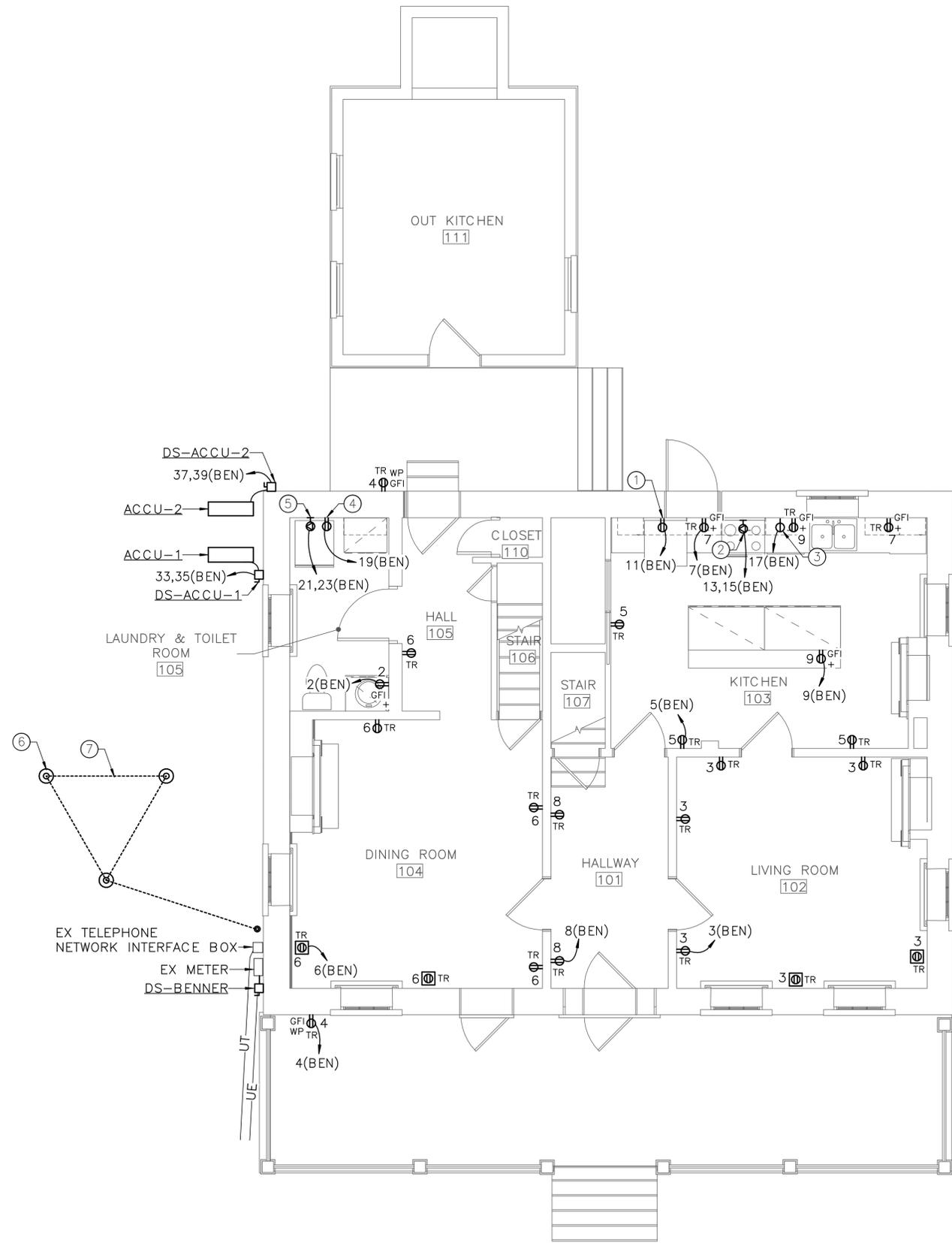


1 CELLAR — POWER NEW WORK
E1.0 SCALE (A)



ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: JLW	SUB SHEET NO. E1.0	TITLE OF SHEET CELLAR — POWER NEW WORK	DRAWING NO. 305 178321
PRIME/ARCH: GWDO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW	E1.0	GETTYSBURG NATIONAL MILITARY PARK	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: JUST			SHEET 72 of 95
				DATE: 02/28/2022			

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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.

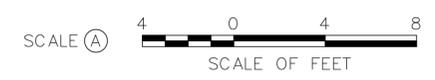
④ FOR WASHER. MOUNT TO SUIT EQUIPMENT.

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.

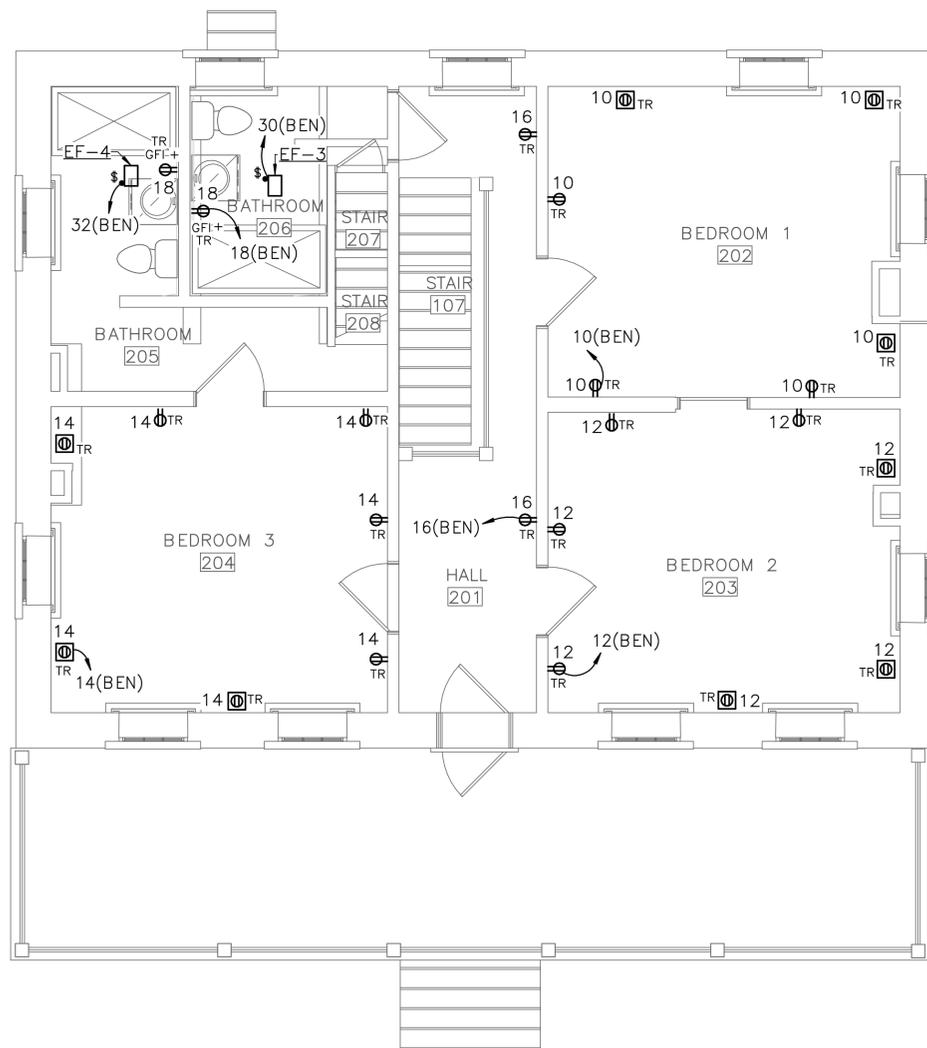
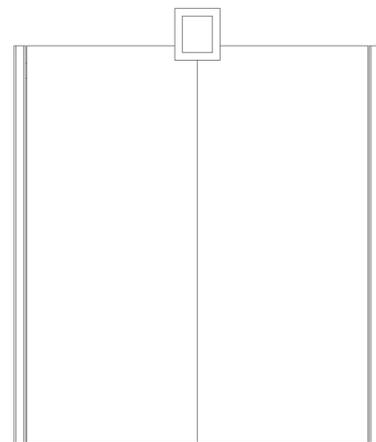
⑦ GROUNDING CONDUCTOR BURIED 24 INCHES BELOW FINISHED GRADE, MINIMUM.

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



ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: JLW	SUB SHEET NO. E1.1	TITLE OF SHEET FIRST FLOOR — POWER NEW WORK	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: JLW			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: JUST	SHEET 73 of 95	GETTYSBURG NATIONAL MILITARY PARK	
				DATE: 02/28/2022			

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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.



ISSUED FOR BID				DESIGNED:		SUB SHEET NO.		TITLE OF SHEET		DRAWING NO.			
A/E FIRM - P15PC00037				JLW		E1.2		SECOND FLOOR - POWER NEW WORK		305			
PRIME/ARCH: GWWD, 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	
				CADD: JLW						SHEET			
				TECH. REVIEW: JUST						74 of 95			
				DATE: 02/28/2022				GETTYSBURG NATIONAL MILITARY PARK					

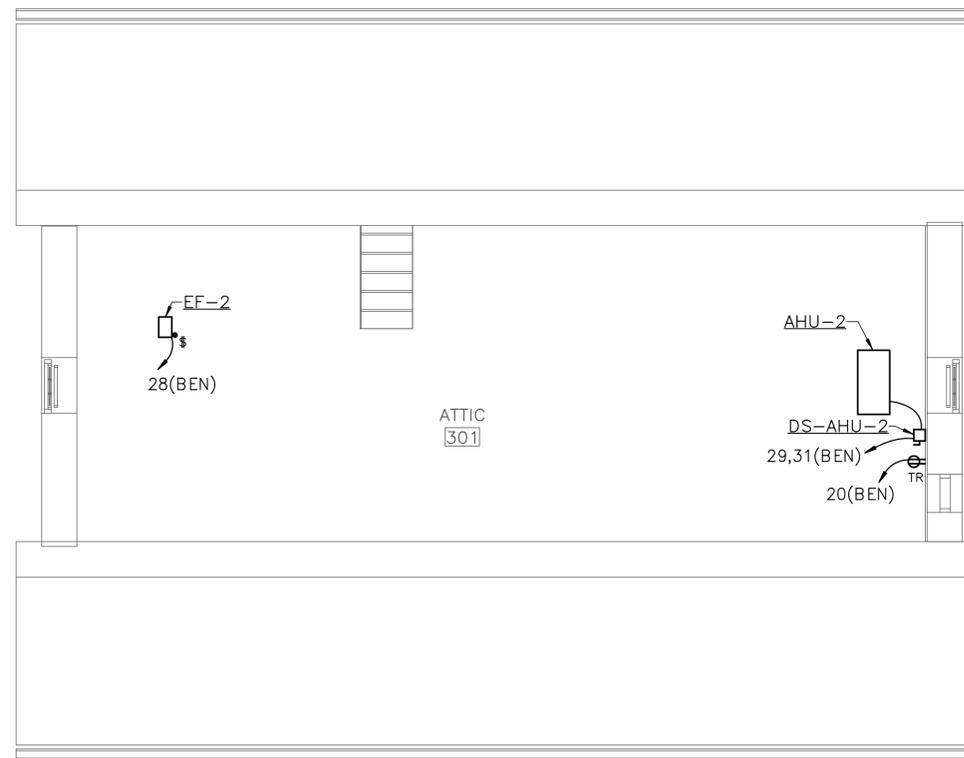
2/5/2022 11:16:29 AM C:\Revit Projects 2021\14-N009-Z1 Elec Central (2021)_winemiller.rvt

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

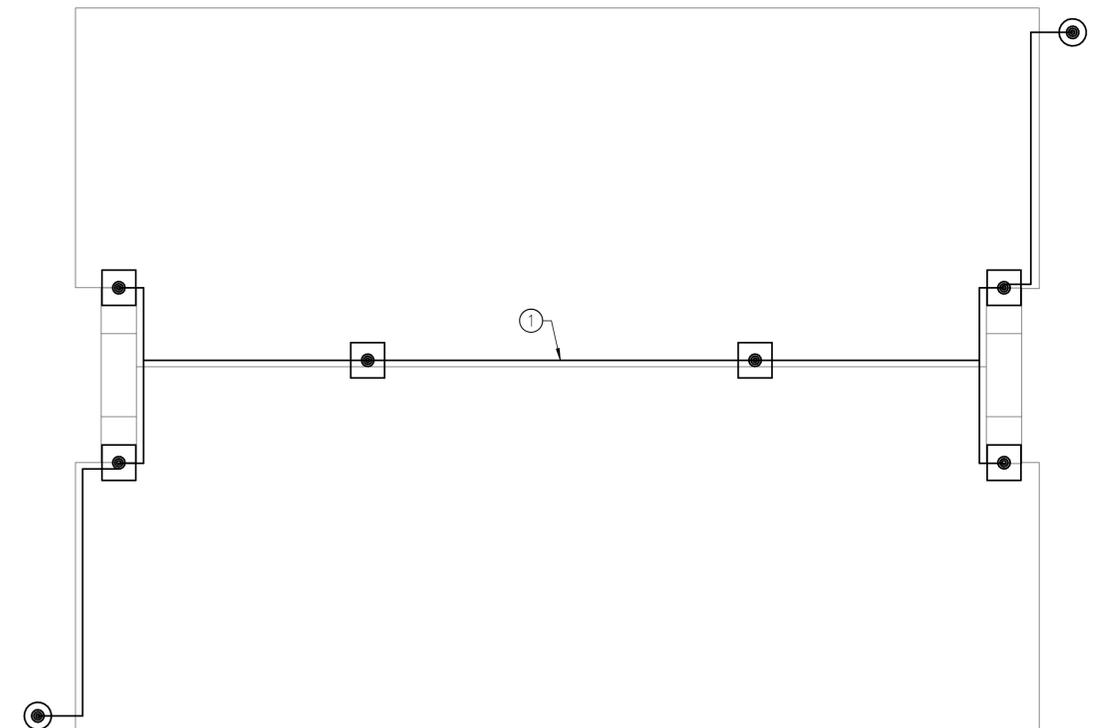
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SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

- ① ROUTE CONDUCTOR EXPOSED. LOCATE RIDGE-TOP CONDUCTOR JUST BELOW RIDGE TOWARDS REAR SIDE OF BUILDING.



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

PRIME/ARCH:
GWWD, 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.

E1.3

TITLE OF SHEET
ATTIC AND ROOF —
POWER NEW WORK

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

PMIS/PKG NO.

257363

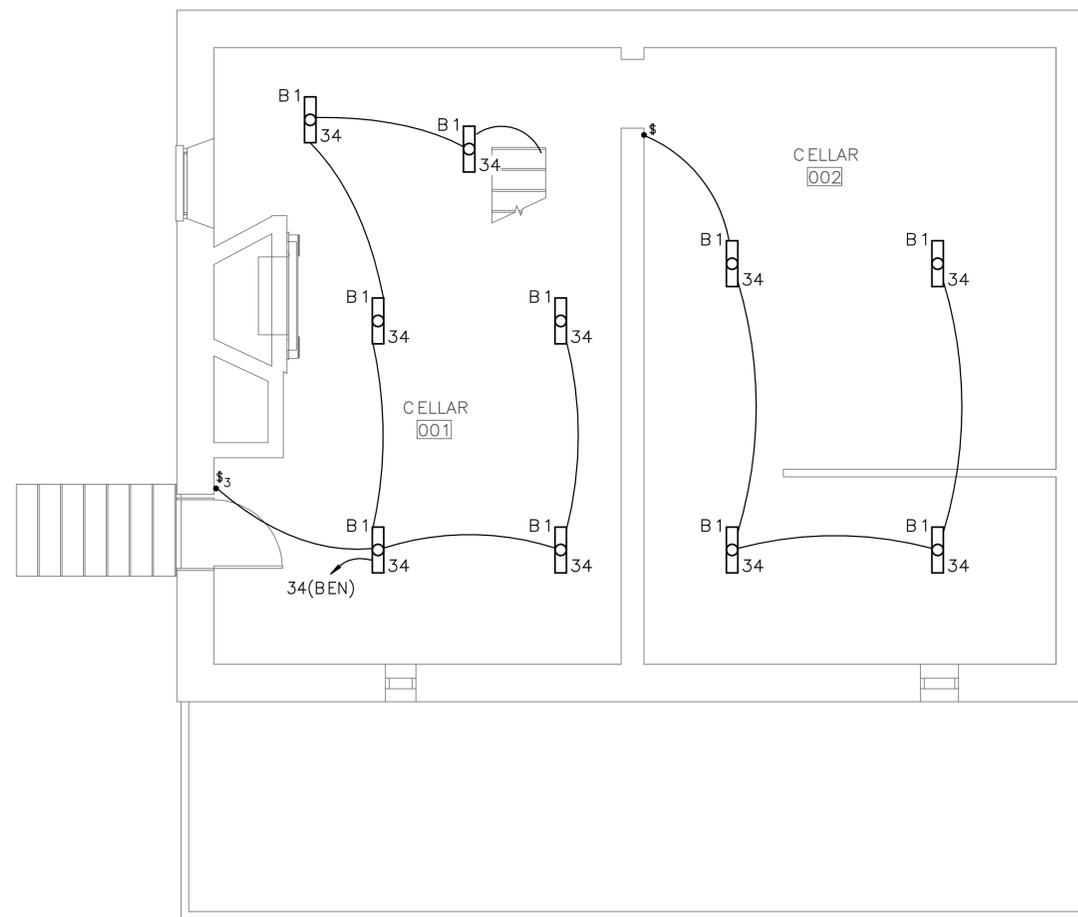
SHEET

75 of 95

2/5/2022 11:16:29 AM C:\Revit Projects 2021\14-N009-Z1 Elec Central (2021)_winemiller.rvt

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

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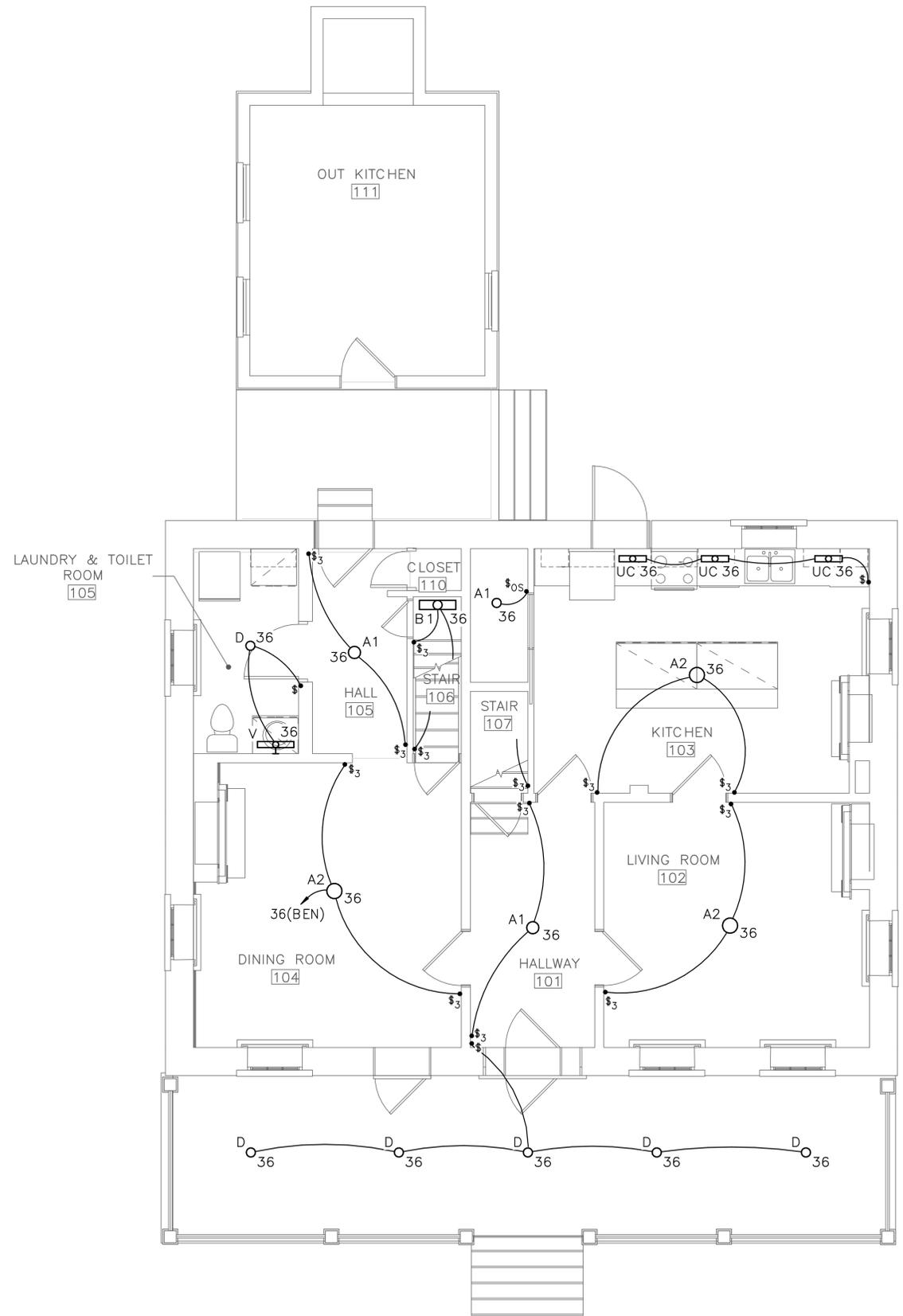


1 CELLAR — LIGHTING NEW WORK
E2.0 SCALE (A)



ISSUED FOR BID				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
A/E FIRM — P15PC00037				JLW	E2.0	CELLAR — LIGHTING NEW WORK	305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW			178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: JUST			PMIS/PKG NO. 257363
				DATE: 02/28/2022		GETTYSBURG NATIONAL MILITARY PARK	SHEET 76 of 95

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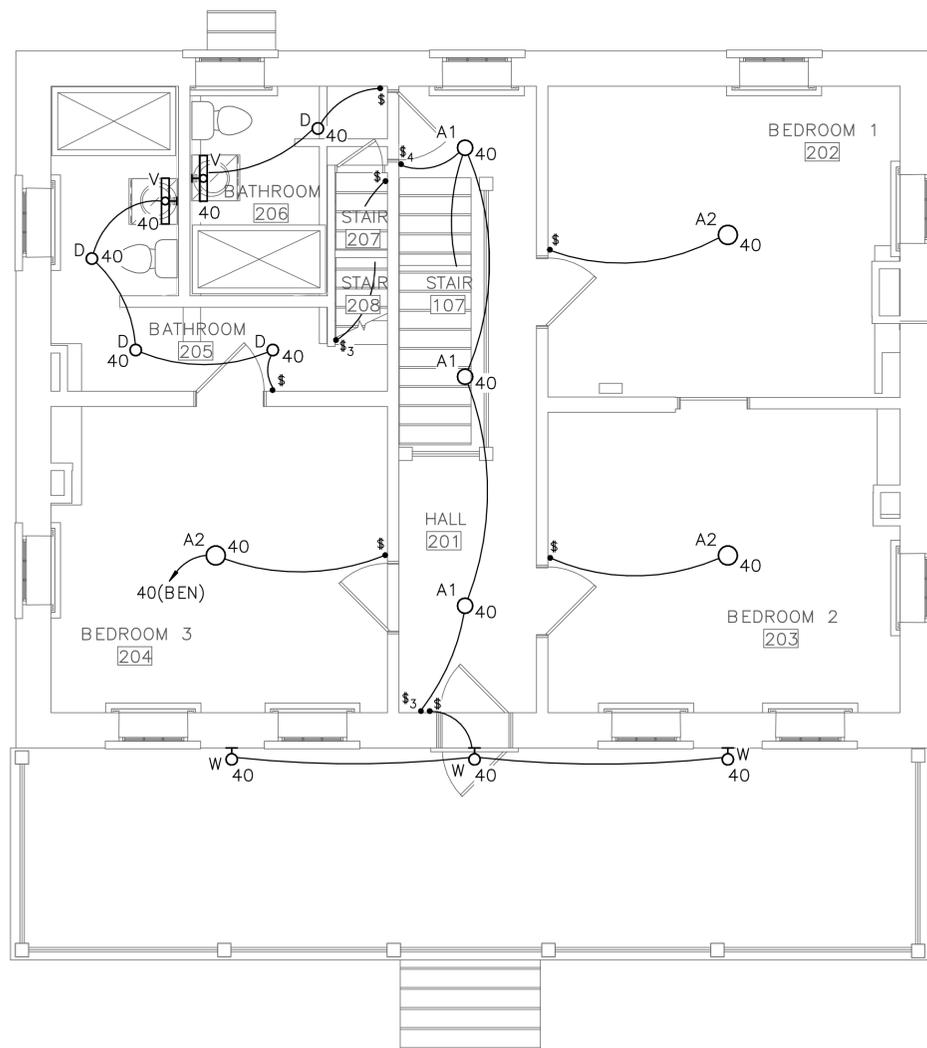
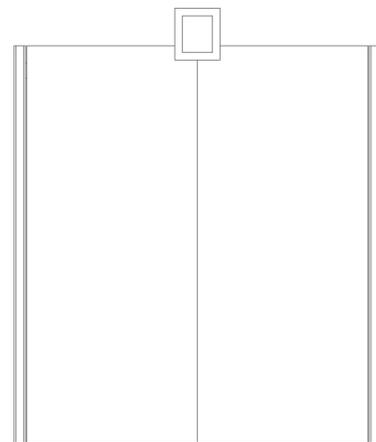
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1 FIRST FLOOR – LIGHTING NEW WORK
 E2.1 SCALE (A)



ISSUED FOR BID				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
A/E FIRM - P15PC00037				JLW	E2.1	FIRST FLOOR – LIGHTING NEW WORK	305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW			178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: JST			PMIS/PKG NO. 257363
				DATE: 02/28/2022		GETTYSBURG NATIONAL MILITARY PARK	SHEET 77 of 95

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

DRAWING NOTES:
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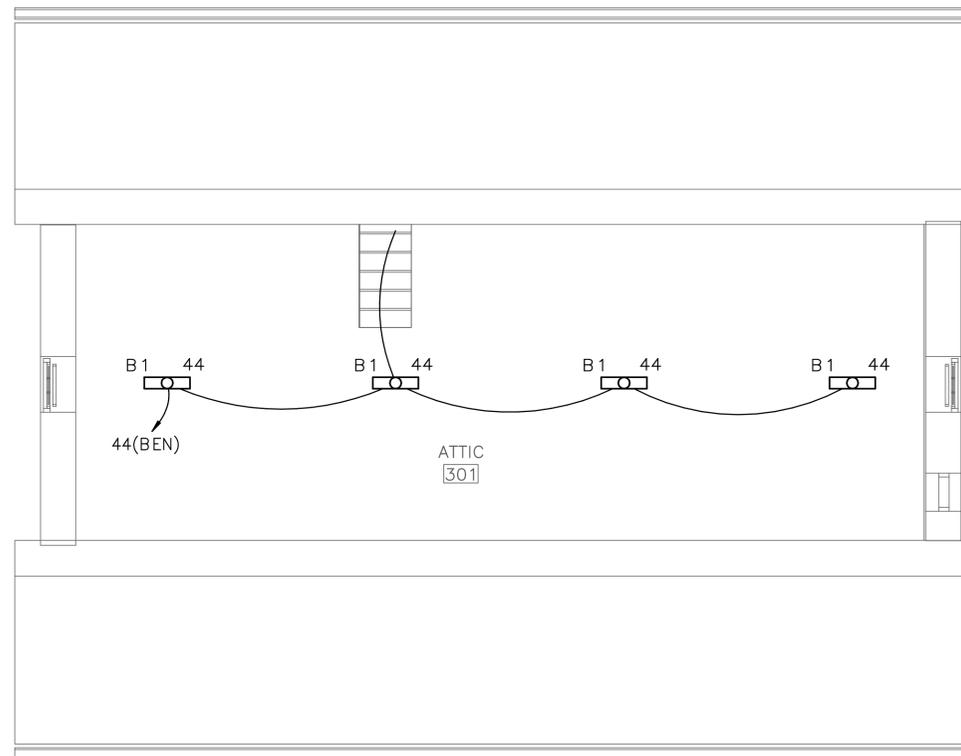


ISSUED FOR BID				DESIGNED: JLW CADD: JLW TECH. REVIEW: JST DATE: 02/28/2022	SUB SHEET NO. E2.2	TITLE OF SHEET		DRAWING NO. <u>305</u> 178321 PMIS/PKG NO. 257363 SHEET 78 of 95
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD			SECOND FLOOR – LIGHTING NEW WORK		
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD			GETTYSBURG NATIONAL MILITARY PARK		
						SCALE OF FEET		

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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.

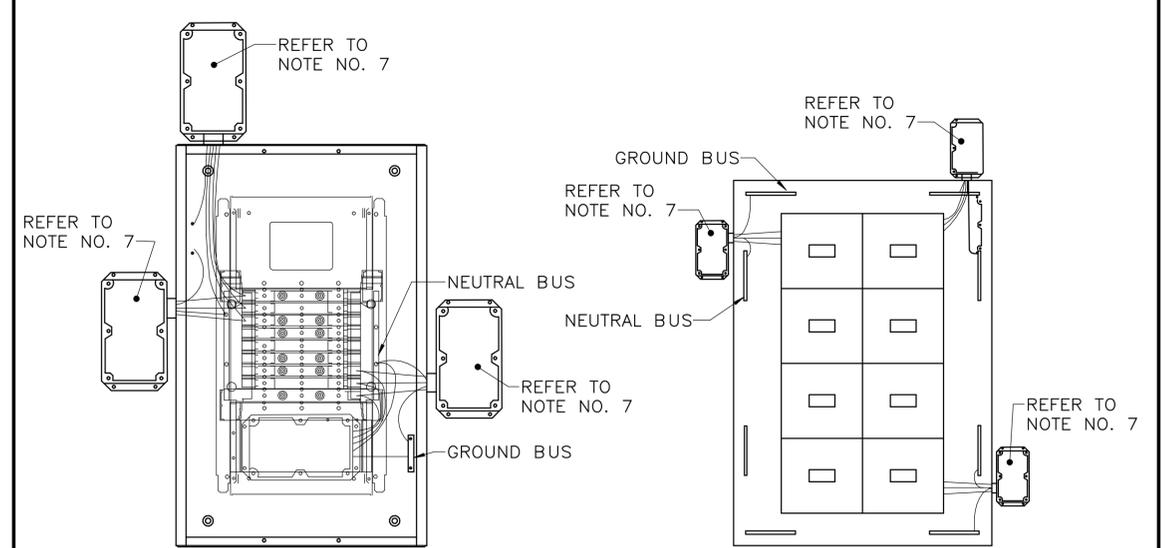
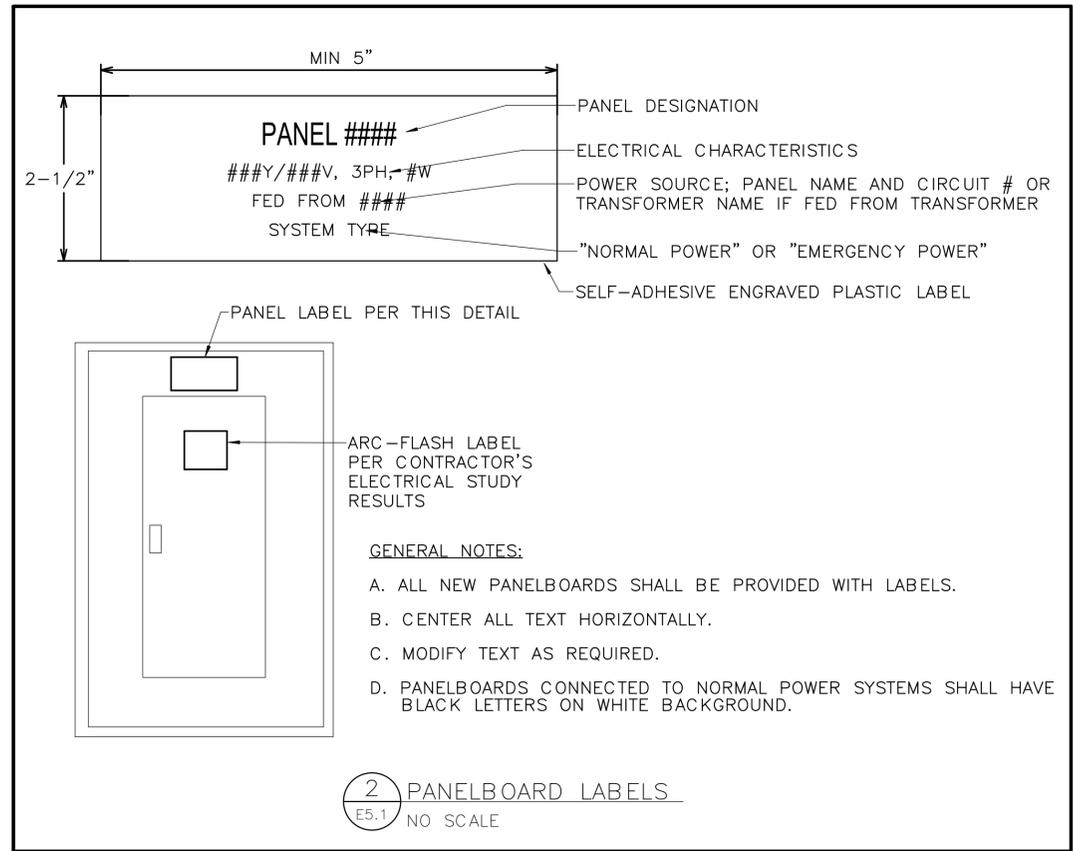


1 ATTIC — LIGHTING NEW WORK
E2.3 SCALE (A)



ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: JLW	SUB SHEET NO. E2.3	TITLE OF SHEET ATTIC — LIGHTING PLAN	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: JLW			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: JUST	SHEET 79 OF 95	GETTYSBURG NATIONAL MILITARY PARK	
				DATE: 02/28/2022			

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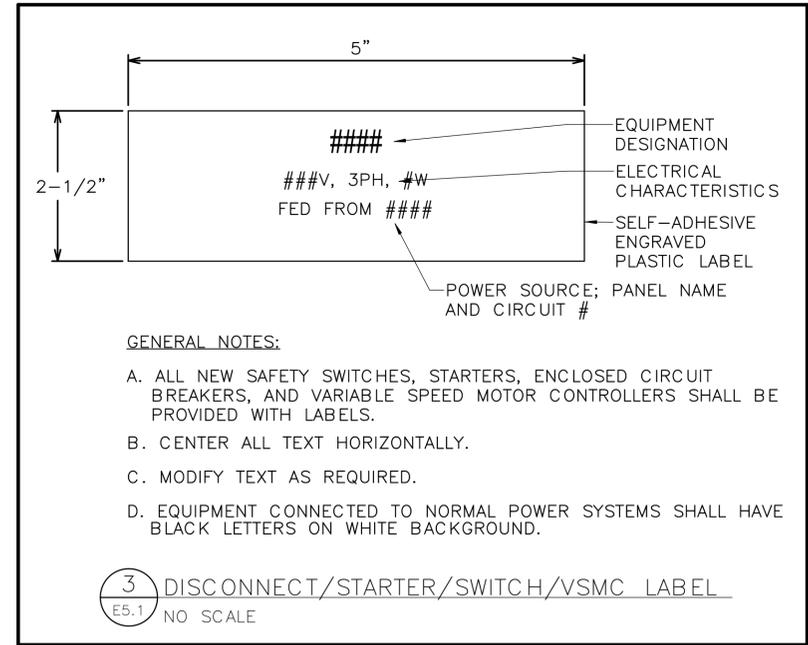
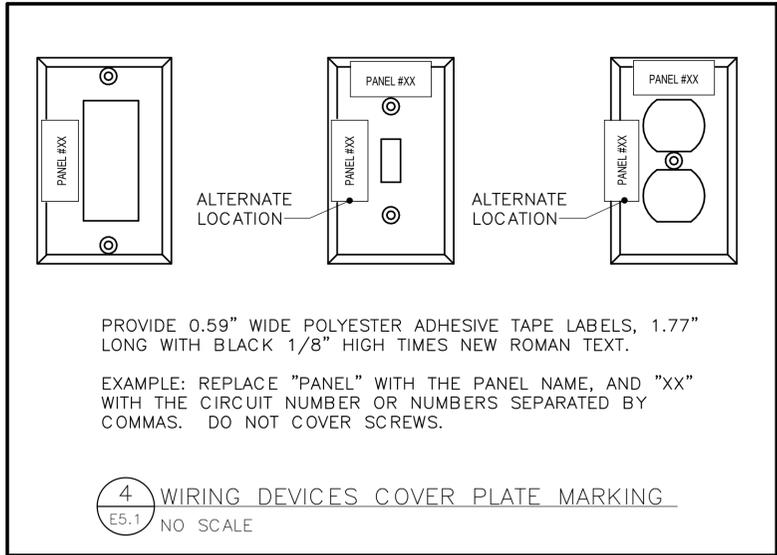
BRANCH CIRCUIT PANELBOARD

DISTRIBUTION PANELBOARD

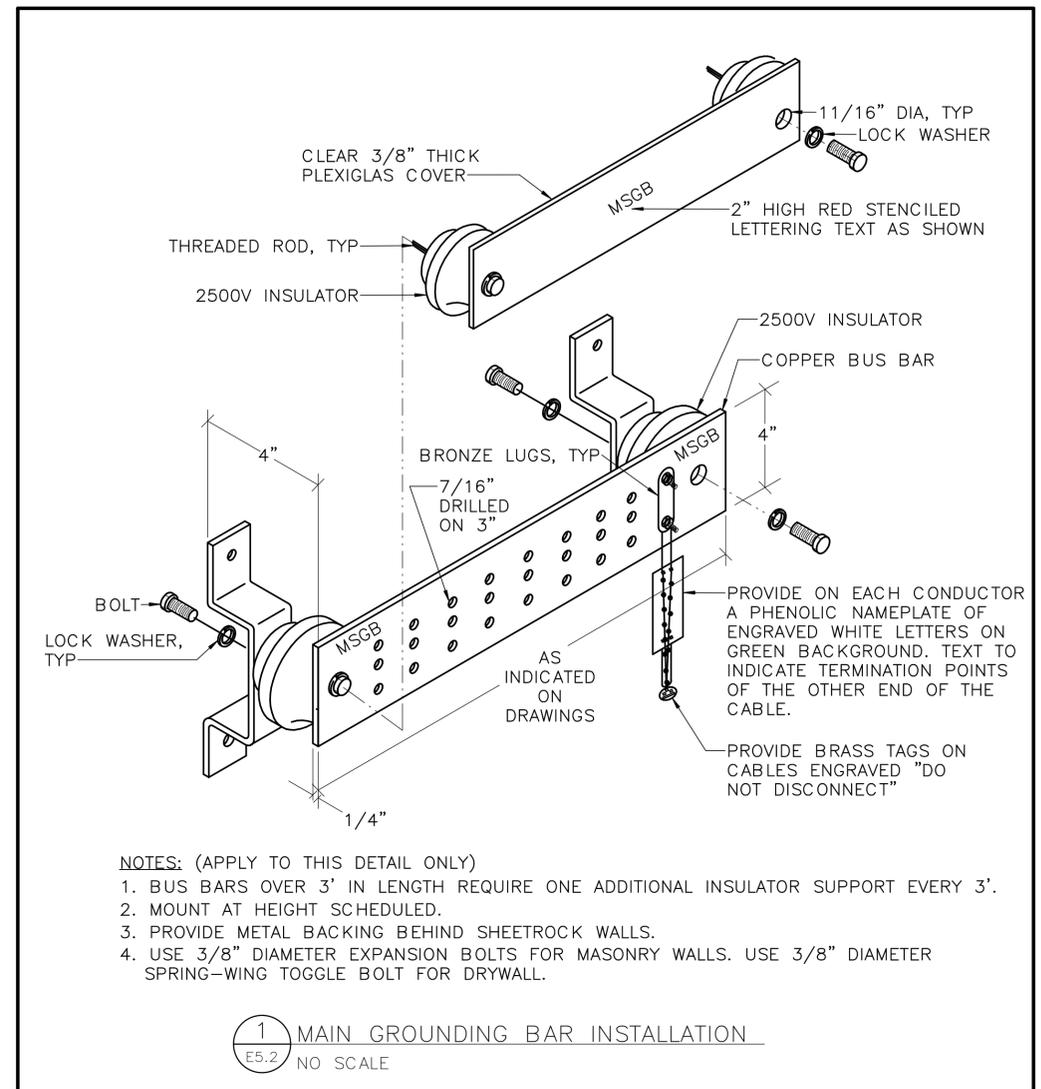
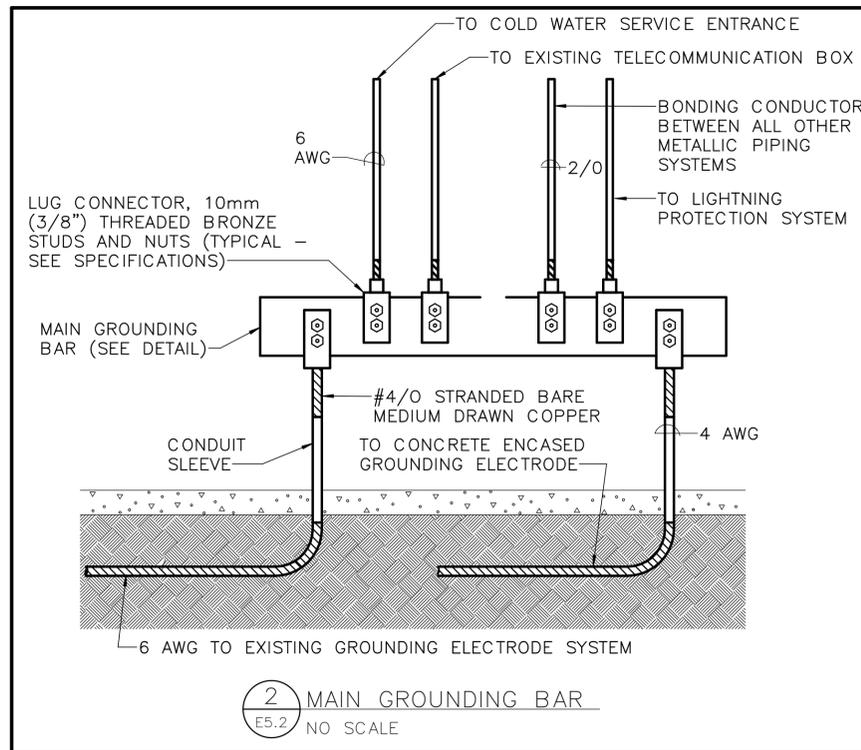
- NOTES: (APPLICABLE TO THIS DETAIL ONLY)**
1. PROVIDE MULTIPOLE, 30 AMP DEDICATED CIRCUIT BREAKER TO SERVE AS DISCONNECT FOR SURGE PROTECTIVE DEVICE. COORDINATE WITH VOLTAGE CONFIGURATION OF PROTECTED EQUIPMENT.
 2. FOR SERVICE ENTRANCE APPLICATIONS, INSTALL DEVICE ON LOAD SIDE OF SERVICE ENTRANCE AND BOND GROUND LEAD CONDUCTOR TO SERVICE ENTRANCE GROUND.
 3. INSTALL CONDUCTORS BETWEEN SURGE PROTECTIVE DEVICE AND TERMINATION POINTS AS SHORT AND STRAIGHT AS POSSIBLE. DO NOT EXCEED MANUFACTURER'S RECOMMENDED CABLE LENGTH. DO NOT BOND NEUTRAL AND GROUND.
 4. LOCATE SURGE PROTECTIVE DEVICE TO MINIMIZE CONDUCTOR LENGTHS BETWEEN SURGE PROTECTIVE DEVICE AND CIRCUIT BREAKER TO WHICH IT IS CONNECTED. ROUTE CONDUCTORS IN METAL CONDUIT USING RIGID NIPPLE. KEEP CONDUCTORS AS SHORT AND STRAIGHT AS POSSIBLE. WIRE SIZE FOR CONDUCTORS SHALL BE AS REQUIRED BY MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS: MINIMUM SIZE #10 AWG; MAXIMUM SIZE #4 AWG.
 5. CONNECT SURGE PROTECTIVE DEVICE TO GROUNDING SYSTEM.
 6. INSTALL CONDUCTORS FOR SURGE PROTECTIVE DEVICES NEATLY. BIND PHASE, NEUTRAL, AND GROUND CONDUCTORS TIGHTLY OVER ENTIRE LENGTH FROM SURGE PROTECTIVE DEVICE TO CIRCUIT BREAKER. USE THE SHORTEST LENGTH OF CONNECTING CABLE POSSIBLE.
 7. EXTERNALLY MOUNTED SPD. WIRE CONNECTIONS SHOWN TO NEAREST BREAKER FOR DISCONNECT. INSTALLATION IS POSSIBLE ON EITHER SIDE, TOP OR BOTTOM OF PANEL.
 8. REFER TO ONE-LINE DIAGRAM FOR PANELBOARDS THAT REQUIRE SURGE PROTECTIVE DEVICES.

SYMBOL SHOWN ON RISER/ONE-LINE DIAGRAM WHICH THIS DETAIL APPLIES:
[SPD]

1 TYPICAL SURGE PROTECTIVE DEVICE INSTALLATION
E5.1 NO SCALE



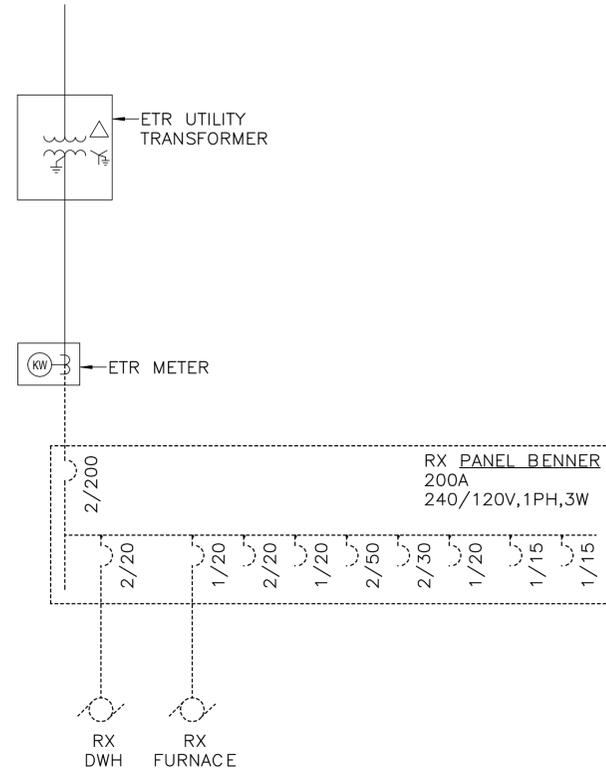
ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: JLW	SUB SHEET NO. E5.1	TITLE OF SHEET ELECTRICAL DETAILS	DRAWING NO. 305 178321
PRIME/ARCH: GWDO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW		GETTYSBURG NATIONAL MILITARY PARK	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: JUST			SHEET
				DATE: 02/28/2022			80 of 95



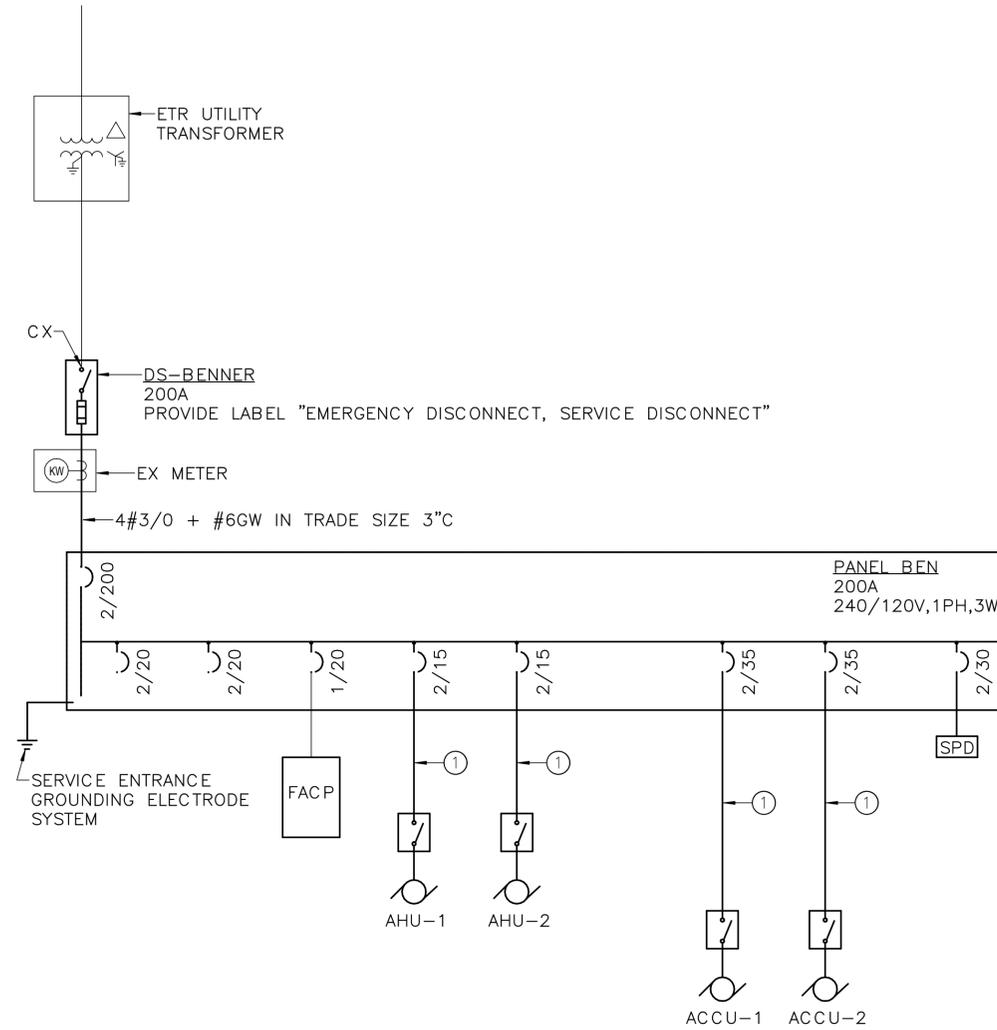
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ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: JLW	SUB SHEET NO. E5.2	TITLE OF SHEET ELECTRICAL DETAILS	DRAWING NO. 305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW			178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: JUST			PMIS/PKG NO. 257363
				DATE: 02/28/2022		GETTYSBURG NATIONAL MILITARY PARK	SHEET 81 OF 95

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1 ELECTRICAL ONE-LINE DIAGRAM – DEMOLITION
E6.1 NO SCALE



2 ELECTRICAL ONE-LINE DIAGRAM – NEW WORK
E6.1 NO SCALE

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: 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.
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**

LUMINAIRE SCHEDULE

TYPE	MOUNTING	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP						DRIVER / BALLAST			VOLTAGE	INPUT WATTS	NOTES
					TYPE	CRI	CCT	QTY	WATTS / LAMP	LUMENS / LAMP	TYPE	QTY	BALLAST FACTOR			
A1	SURFACE	10" DIAMETER DECOR ROUND LUMINAIRE WITH MOLDED WHITE GLASS DIFFUSER AND WHITE FINISH.	LITHONIA OR APPROVED EQUAL	FMDECL 10-148-30-WH CFMDECL 10 (DIFFUSER)	LED	80	3000	1	20	960	INTEGRAL	1	1.00	120	20	-
A2	SURFACE	14" DIAMETER DECOR ROUND LUMINAIRE WITH MOLDED WHITE GLASS DIFFUSER AND WHITE FINISH.	LITHONIA OR APPROVED EQUAL	FMDECL 14-208-30-WH CFMDECL 14 (DIFFUSER)	LED	80	3000	1	30	1570	INTEGRAL	1	1.00	120	30	-
B1	SURFACE	24" X 3.44" X 2.72" LINEAR STRIP LUMINAIRE WITH STEEL HOUSING, FLAT DIFFUSE LENS, INTEGRAL DRIVER, AND WHITE FINISH.	LITHONIA OR APPROVED EQUAL	CLX-L24-1500LM-SEF-FDL-120-GZ10-30K-80CRI-WH	LED	80	3000	1	11	1497	0-10V DIM	1	1.00	120	11	-
D	SURFACE	7" DIAMETER X 2" HIGH LED FLUSH MOUNT LUMINAIRE WITH ALUMINUM HOUSING, MATTE WHITE ACRYLIC DIFFUSER, AND WHITE FINISH.	LITHONIA OR APPROVED EQUAL	FMML-7-8-30-WL	LED	80	3000	1	10	642	INTEGRAL	1	1.00	120	10	-
UC	SURFACE	18" LONG UNDERCABINET LUMINAIRE WITH LOW-PROFILE ALUMINUM HOUSING AND WHITE FINISH.	LITHONIA OR APPROVED EQUAL	UCLD-18IN-30K-90CRI-WH	LED	90	3000	1	10	585	INTEGRAL	1	1.00	120	10	-
V	WALL SURFACE	24" X 5" X 4" VANITY LUMINAIRE WITH ACRYLIC DIFFUSER, INTEGRAL DRIVER, AND BRUSHED NICKEL FINISH.	LITHONIA OR APPROVED EQUAL	FMVTSL-24IN-MVOLT-30K-90CRI-BN	LED	90	3000	1	18	1302	INTEGRAL	1	1.00	120	18	-
W	WALL SURFACE	5" X 5" X 3" WALL PACK LUMINAIRE WITH ALUMINUM HOUSING, INTEGRAL DRIVER, AND BRONZE FINISH.	LITHONIA OR APPROVED EQUAL	LIL LED-30K-MVOLT-DD8TXD	LED	80	3000	1	9	800	INTEGRAL	1	1.00	120	9	-

NOTES: (APPLICABLE TO LUMINAIRE SCHEDULE ONLY)

- LAMP TYPES ARE INDICATED BY INDUSTRY GENERIC DESIGNATIONS; SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
- CATALOG NUMBERS FOR LUMINAIRES INDICATE THE TYPE AND QUALITY OF THE LUMINAIRE TO BE PROVIDED BY THE CONTRACTOR AND ARE GENERAL IN NATURE. THE CATALOG NUMBERS ARE NOT INTENDED TO INDICATE AN ACTUAL ORDER MODEL NUMBER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LUMINAIRES WITH THE TYPE OF LAMP, BALLAST, LENS OR DIFFUSER, AND CONSTRUCTION FEATURES AS INDICATED IN THE SPECIFICATIONS.
- EQUIVALENT LUMINAIRES WILL BE ACCEPTED PROVIDED THEY ARE PROVEN TO BE EQUAL TO, OR BETTER THAN, THE SPECIFIED LUMINAIRE IN ALL RESPECTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION FEATURES, APPEARANCE, AND PERFORMANCE. SUBMIT THE FOLLOWING FOR EACH PROPOSED SUBSTITUTION:
 - POINT-BY-POINT LIGHT LEVEL CALCULATIONS IN 3-DIMENSIONAL LIGHTING CALCULATION SOFTWARE TO ILLUSTRATE GUARANTEED ILLUMINATION LEVELS. EACH SPACE AFFECTED BY A SUBSTITUTION SHALL BE MODELED AND CALCULATED USING INDUSTRY STANDARD VALUES FOR REFLECTANCES, LIGHT LOSS FACTOR, ETC. ENGINEER WILL COMPARE TO BASIS OF DESIGN LUMINAIRE AND ENGINEER'S CALCULATIONS TO APPROVE OR REJECT SUBSTITUTE LUMINAIRE. PROVIDE IES FILE TO ENGINEER FOR PROPOSED SUBSTITUTE ALONG WITH CALCULATION RESULTS.
 - POINT-BY-POINT COMPARATIVE DATA IN SIDE-BY-SIDE FORMAT COMPARING FEATURES OF SUBSTITUTE LUMINAIRE TO BASIS-OF-DESIGN LUMINAIRE.
- COORDINATE CONTROL COMPATIBILITY BETWEEN BALLAST/DRIVER TYPES FOR ALL DIMMED LUMINAIRES WITH MANUFACTURER AND MODEL OF DIMMING CONTROL DEVICES.
- ALL MOUNTING HEIGHTS SHALL BE AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE CONTRACTING OFFICER. MOUNTING HEIGHTS OF WALL MOUNTED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE LUMINAIRE. MOUNTING HEIGHTS OF CEILING SUSPENDED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE.

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ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: JLW	SUB SHEET NO. E8.1	TITLE OF SHEET LUMINAIRE SCHEDULE	DRAWING NO. 305
PRIME/ARCH: GWDO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW			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: JUST			SHEET
				DATE: 02/28/2022			83 OF 95
						GETTYSBURG NATIONAL MILITARY PARK	

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MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE												
EQUIPMENT DESIGNATION	KW	HP	MCA	MOCF	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

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. E8.2

TITLE OF SHEET ELECTRICAL EQUIPMENT SCHEDULES
GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO. 305
178321
PMIS/PKG NO. 257363
SHEET 84 OF 95

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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:

- 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.
- 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.
- 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.
- COMPLETE CIRCUITING OF INDIVIDUAL ELECTRICAL DEVICES TO HOMERUN USING WIRE AND RACEWAY SIZES INDICATED ON SCHEDULE.
- 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														
SERVICE TYPE: NORMAL MANUFACTURER: SQUARE-D TYPE: Q0C40U					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				
CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A	B	AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT			
1					0.00	0.00		20	1	SPARE	2			
3	RANGE	2	50			0.00			1	SPACE	4			
5					0.00	--			1	SPACE	6			
7	DRYER	2	30			0.00	0.00	20	1	A/C LIVING ROOM	8			
9					0.00	--			1	SPACE	10			
11	HOT WATER HEATER	2	20			0.00	--		1	SPACE	12			
13	REC: KITCHEN	1	20		0.00	--			1	SPACE	14			
15	REC: BASEMENT STEPS POST	1	20			0.00	--		1	SPACE	16			
17	LTG: KIT/UPST BATH/MASTER/SEW	1	15		0.00	--			1	SPACE	18			
19	WELL PUMP DNSTAIRS BATHRM	1	15			0.00	--		1	SPACE	20			
21	LTG: HALL/OUTSIDE/BEDRM/FOYER	1	15		0.00	--			1	SPACE	22			
23	REC: BEDROOMS/FAMILY RM	1	15			0.00	--		1	SPACE	24			
25	FURNACE	1	20		0.00	--			1	SPACE	26			
27	SUMP PUMP	1	20			0.00	--		1	SPACE	28			
29	SPACE	1	--		--	--			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: PHASE AMPS:					0.00 kVA 0 A		0.00 kVA 0 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 e HANDLE PADLOCK b GFCI BREAKER (5mA) f HANDLE CLAMP c GFEP BREAKER (30mA) g RED BREAKER LOCKOUT d SHUNT TRIP BREAKER				

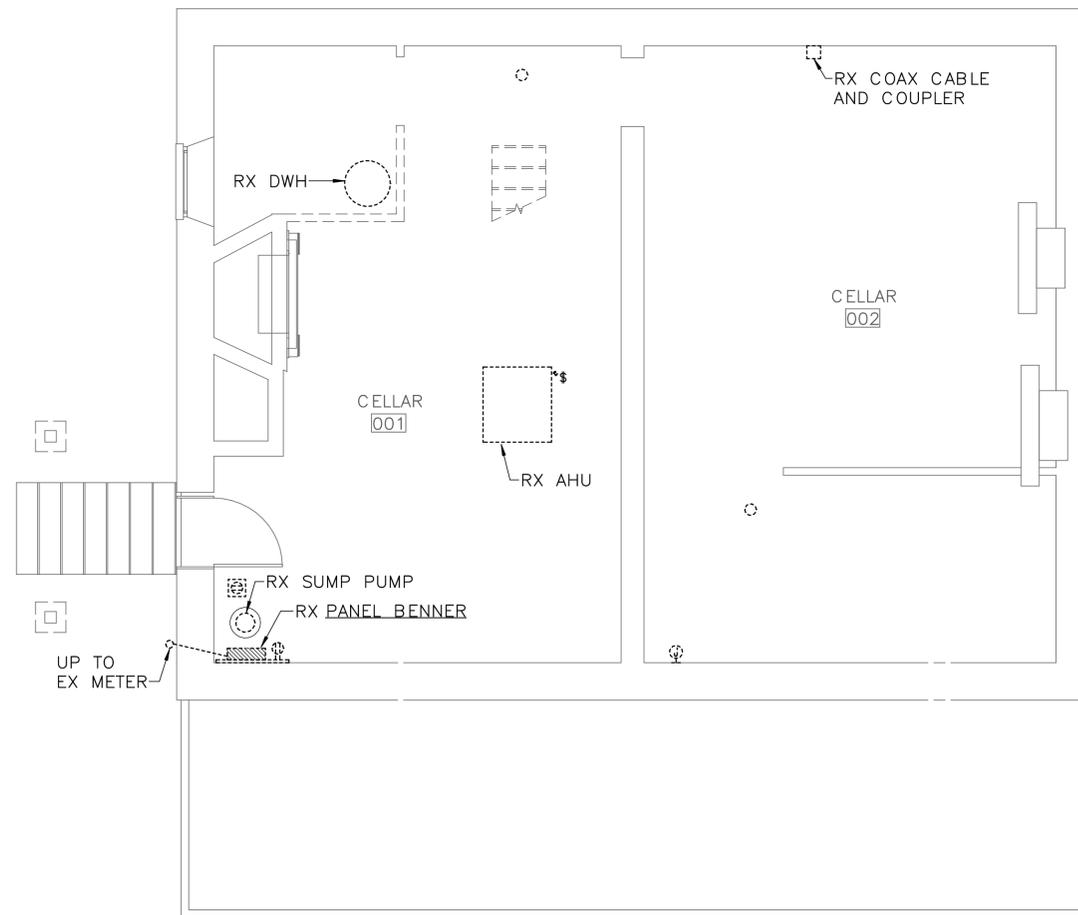
PANEL BEN														
SERVICE TYPE: NORMAL FED FROM:					BUS AMPACITY: 200 A MAIN TYPE: 200 A MCB SERVICE: 120/240 VOLTS, 1 PHASE, 3 WIRE MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS					MOUNTING: SURFACE SECTIONS: 1 ENCLOSURE: NEMA 1 LOCATION: CELLAR 001				
CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A	B	AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT			
1	REC: CELLAR	1	20		0.36	0.18		20	1	REC: LAUNDRY/TOILET	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					2.50	1.26		20	1	REC: BEDROOM 3	14			
15	REC: KITCHEN RANGE	2	50			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						0.00	--	--	1	SPACE	52			
53	SURGE PROTECTIVE DEVICE	2	30		0.00	--		--	1	SPACE	54			
PHASE LOAD: PHASE AMPS:					21.16 kVA 176 A		21.44 kVA 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 e HANDLE PADLOCK b GFCI BREAKER (5mA) f HANDLE CLAMP c GFEP BREAKER (30mA) g RED BREAKER LOCKOUT d SHUNT TRIP BREAKER				

ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: JLW	SUB SHEET NO. E8.3	TITLE OF SHEET PANELBOARD SCHEDULES	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: JLW	E8.3	GETTYSBURG NATIONAL MILITARY PARK	178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: JUST			PMS/PKG NO. 257363
				DATE: 02/28/2022			SHEET 85 of 95

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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.



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



ISSUED FOR BID				DESIGNED:	SUB SHEET NO.	TITLE OF SHEET		DRAWING NO.
<small>A/E FIRM - P15PC00037</small>				JLW	ED1.0	CELLAR — ELECTRICAL DEMOLITION		305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW		GETTYSBURG NATIONAL MILITARY PARK		178321
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: JUST				257363
				DATE: 02/28/2022				SHEET 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.

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

1. PROVIDE AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING AS INDICATED. THE 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.

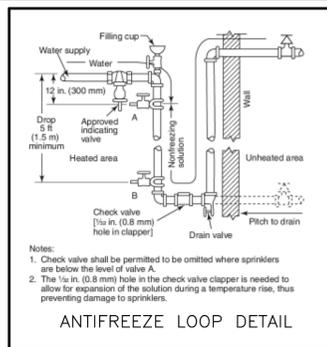
FIRE PROTECTION LEGEND

(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



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.

FPO.0

TITLE OF SHEET

**FIRE PROTECTION
COVER SHEET**

GETTYSBURG NATIONAL MILITARY PARK

DRAWING NO.

305

178321

PMIS/PKG NO.

257363

SHEET

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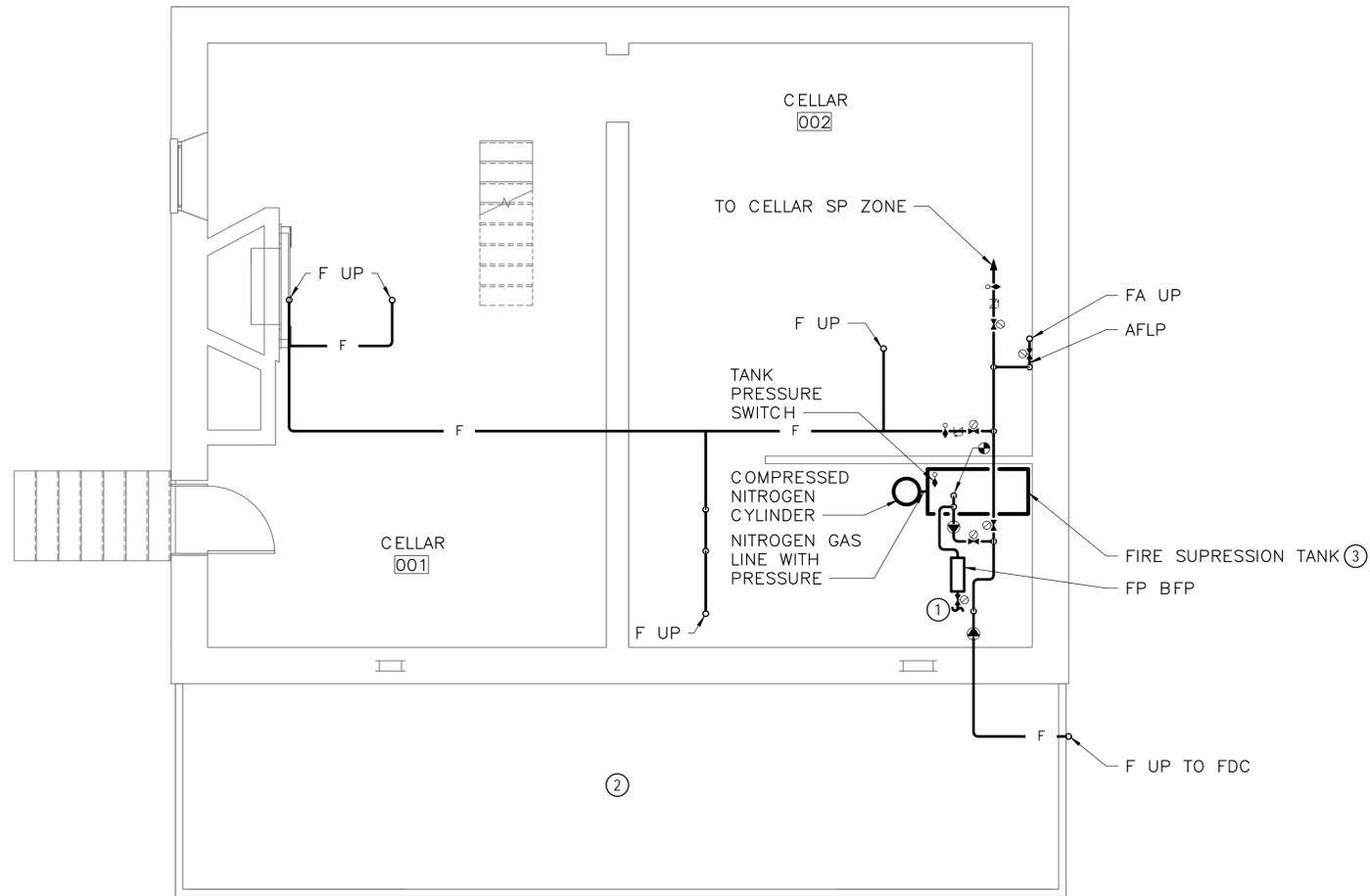
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

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 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				DESIGNED: GPZ	SUB SHEET NO. FP1.1	TITLE OF SHEET CELLAR — NEW WORK — FIRE PROTECTION		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: GPZ		GETTYSBURG NATIONAL MILITARY PARK		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	GETTYSBURG NATIONAL MILITARY PARK			SHEET
				DATE: 02/28/2022				

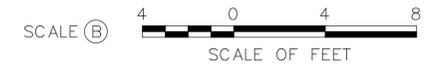
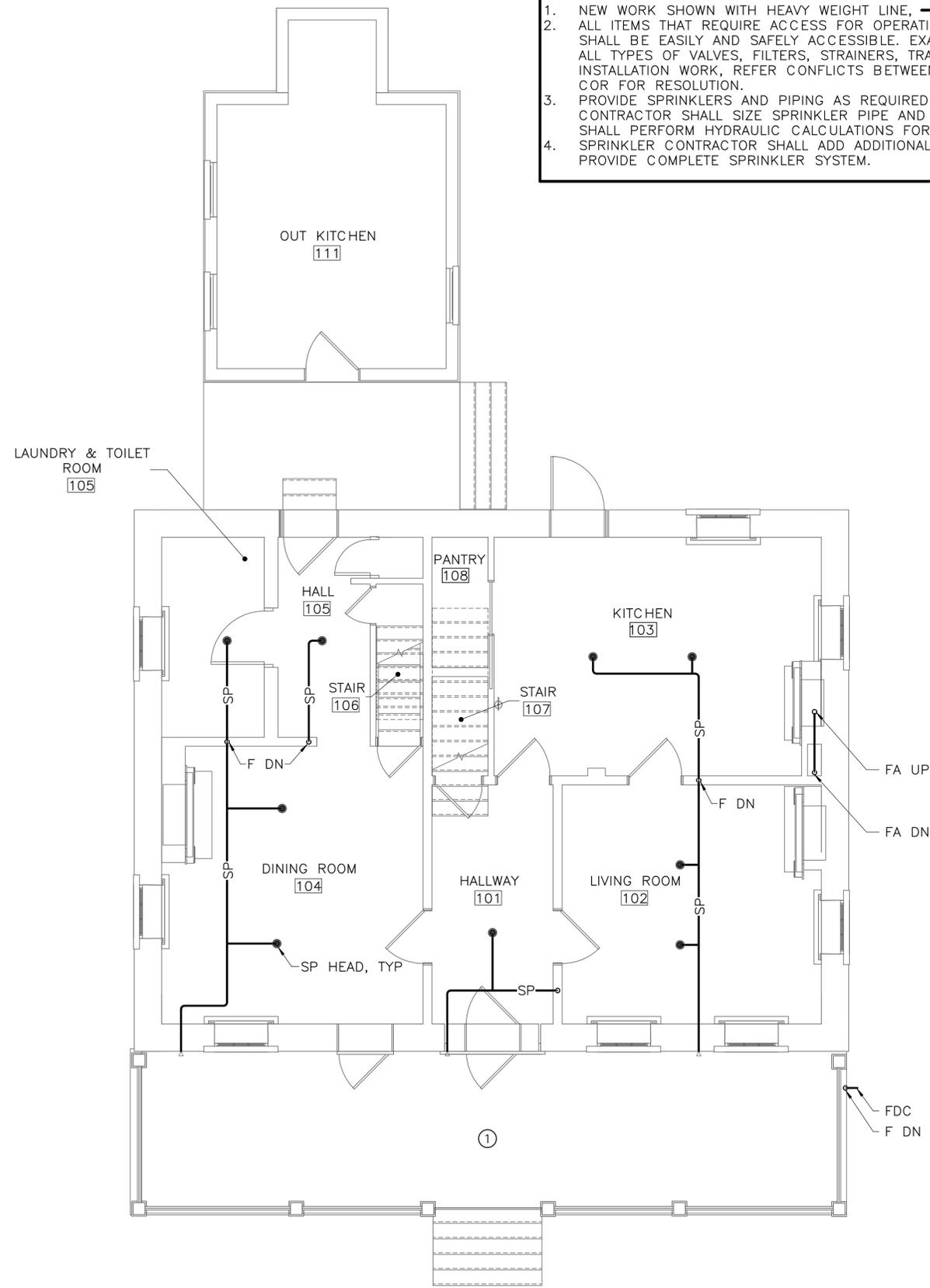
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

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

ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO.	TITLE OF SHEET	DRAWING NO.
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ	FP1.2	FIRST FLOOR – NEW WORK – FIRE PROTECTION	305
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: SRH			PMIS/PKG NO. 257363
DATE: 02/28/2022							SHEET
						GETTYSBURG NATIONAL MILITARY PARK	

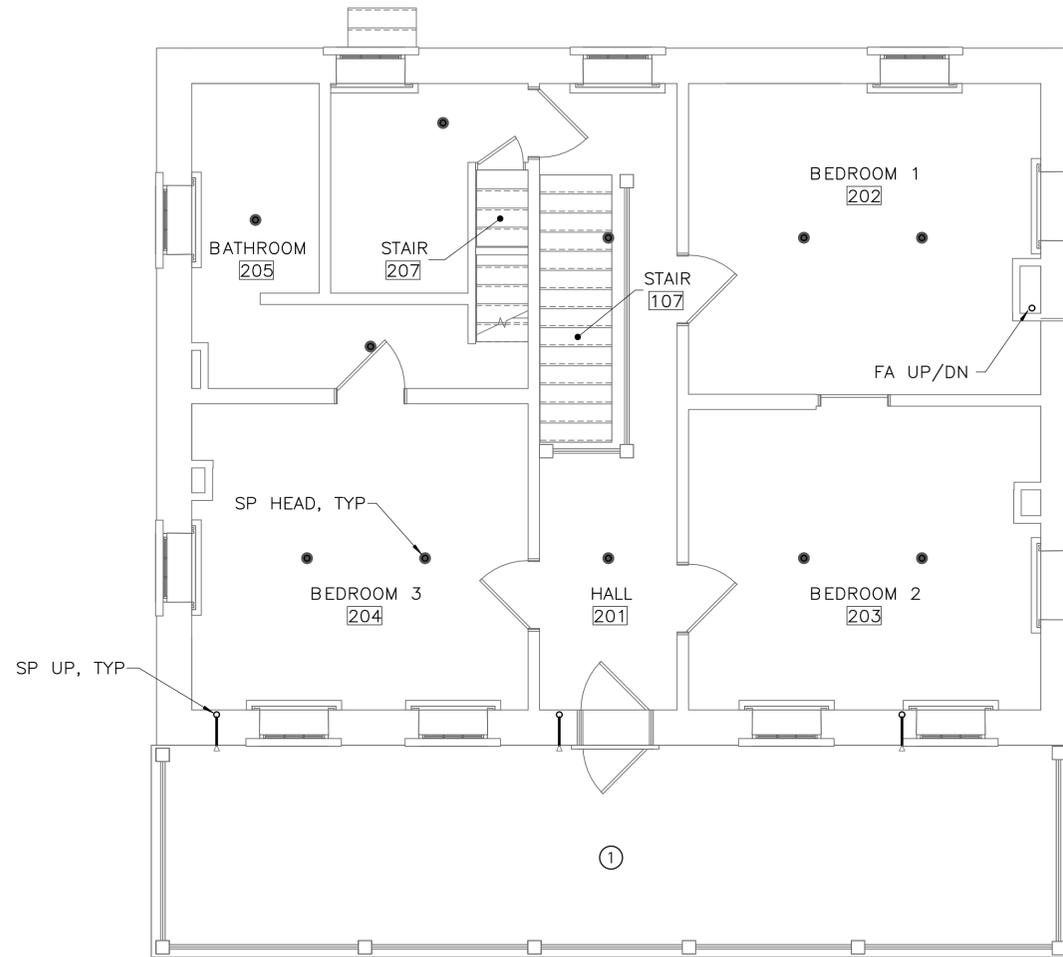
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

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
SCALE (B)

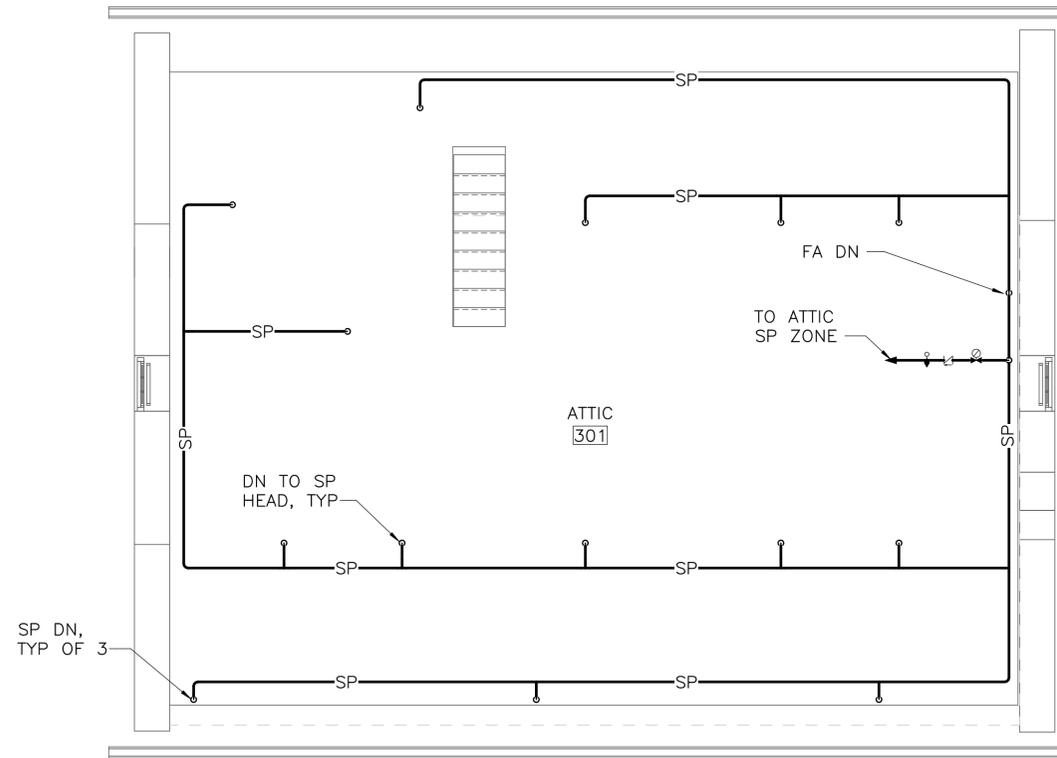


ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. FP1.3	TITLE OF SHEET SECOND FLOOR – NEW WORK – FIRE PROTECTION	DRAWING NO. 305
PRIME/ARCH: GWWO, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: GPZ			PMIS/PKG 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	89 of 95	
				DATE: 02/28/2022	GETTYSBURG NATIONAL MILITARY PARK		

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, **——**
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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)



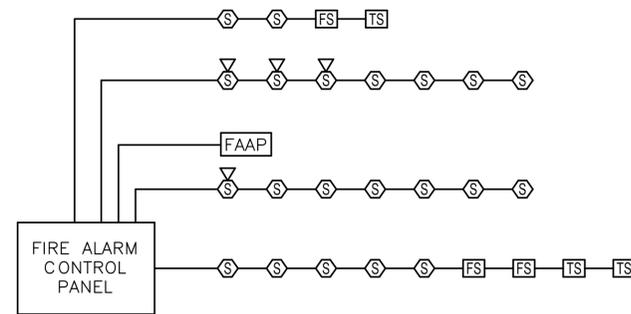
1 ATTIC — FIRE PROTECTION — NEW WORK
 FP1.4 SCALE (B)



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ISSUED FOR BID A/E FIRM -- P15PC00037				DESIGNED: GPZ	SUB SHEET NO. FP1.4	TITLE OF SHEET ATTIC — NEW WORK — FIRE PROTECTION	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: 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			90 of 95
GETTYSBURG NATIONAL MILITARY PARK							

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 R/C: RATE COMPENSATION R/F: 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



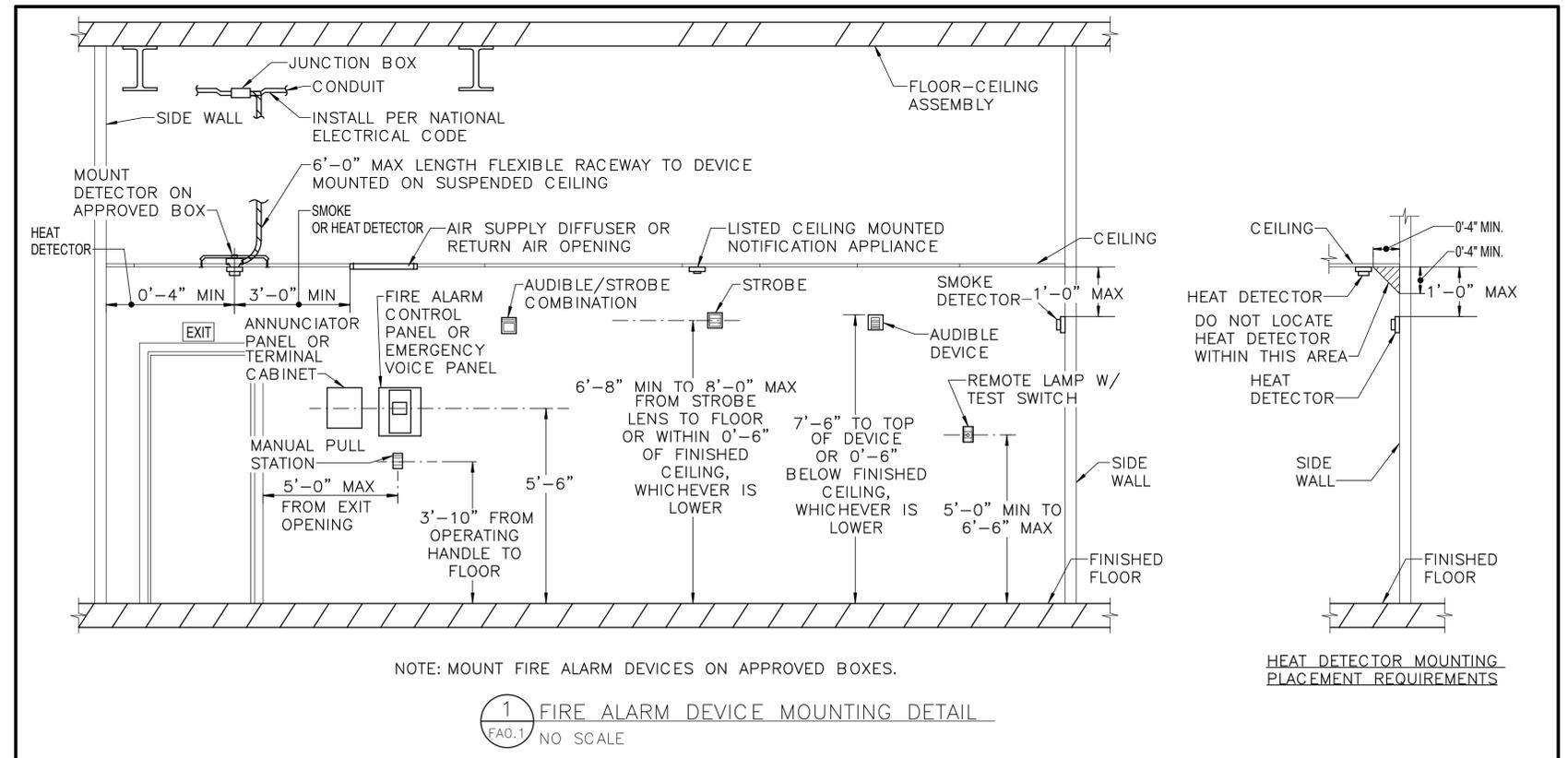
2 FIRE ALARM RISER DIAGRAMS
FA0.1 NO SCALE

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.



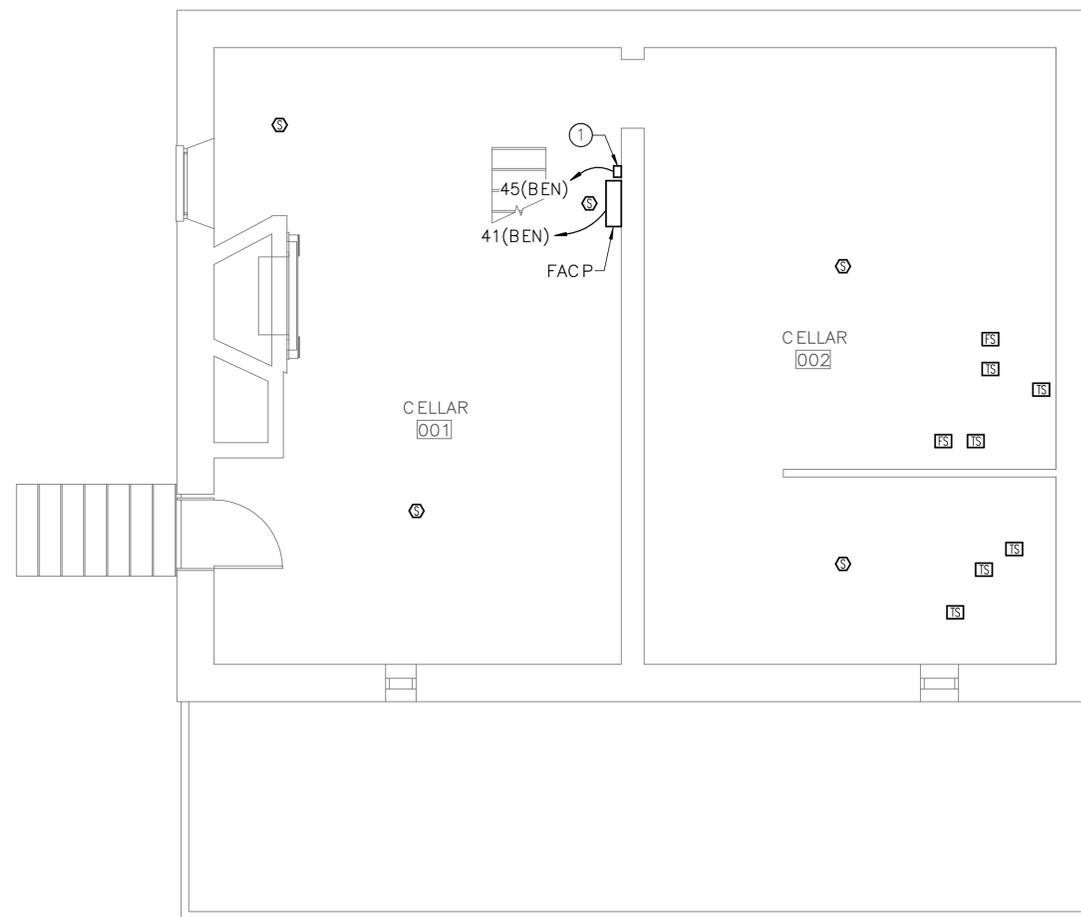
NOTE: MOUNT FIRE ALARM DEVICES ON APPROVED BOXES.

1 FIRE ALARM DEVICE MOUNTING DETAIL
FA0.1 NO SCALE

HEAT DETECTOR MOUNTING PLACEMENT REQUIREMENTS

ISSUED FOR BID A/E FIRM -- #15PC00037				DESIGNED: JLW	SUB SHEET NO. FA0.1	TITLE OF SHEET FIRE ALARM COVER SHEET	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: JLW	TECH. REVIEW: JUST	GETTYSBURG NATIONAL MILITARY PARK	PMIS/PKG NO. 257363
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	DATE: 02/28/2022			SHEET 91 of 95

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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: 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

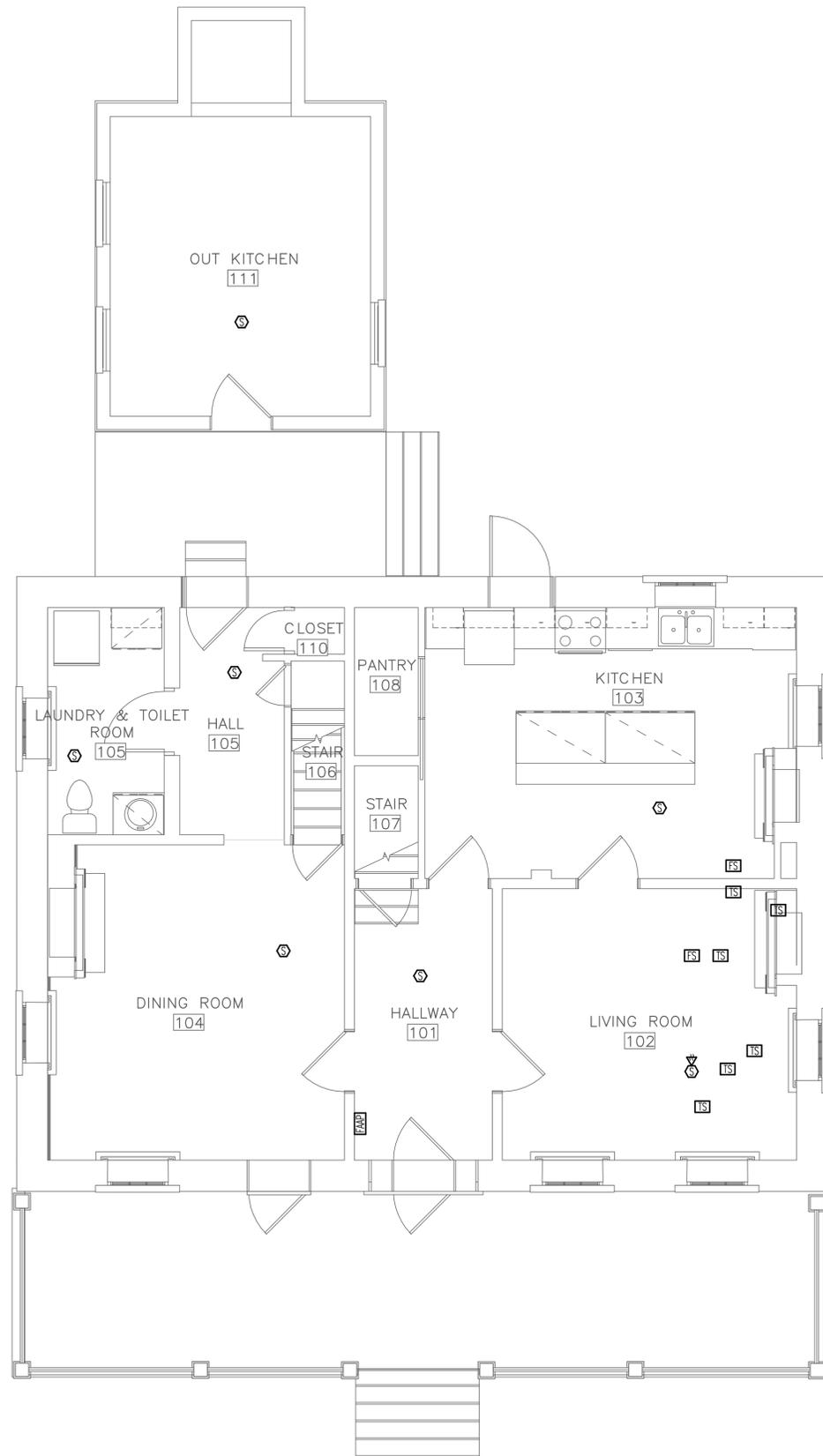
DESIGNED: JLW
CADD: JLW
TECH. REVIEW: JST
DATE: 02/28/2022

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

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DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

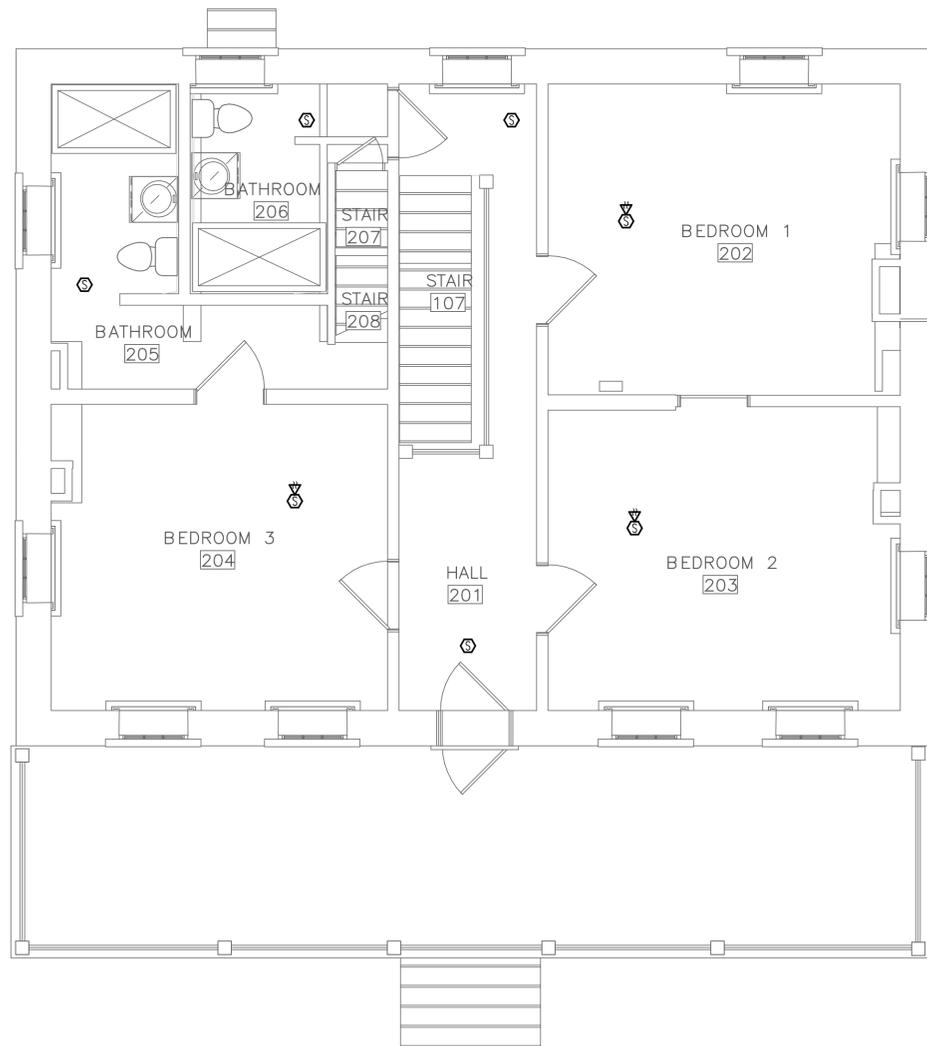
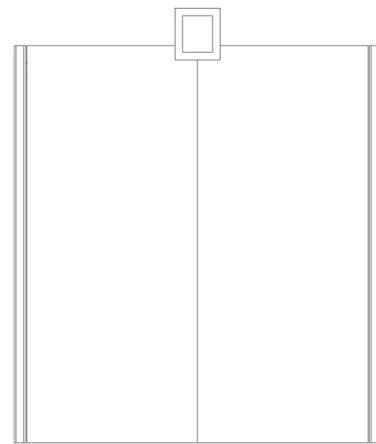
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1 FIRST FLOOR – FIRE ALARM NEW WORK
SCALE (A)



ISSUED FOR BID <small>A/E FIRM - P15PC00037</small>				DESIGNED: JLW	SUB SHEET NO. FA1.1	TITLE OF SHEET		DRAWING NO. 305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW		FIRST FLOOR – FIRE ALARM NEW WORK		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: JUST	GETTYSBURG NATIONAL MILITARY PARK		SHEET 93 of 95	
				DATE: 02/28/2022				

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1 SECOND FLOOR -- FIRE ALARM NEW WORK
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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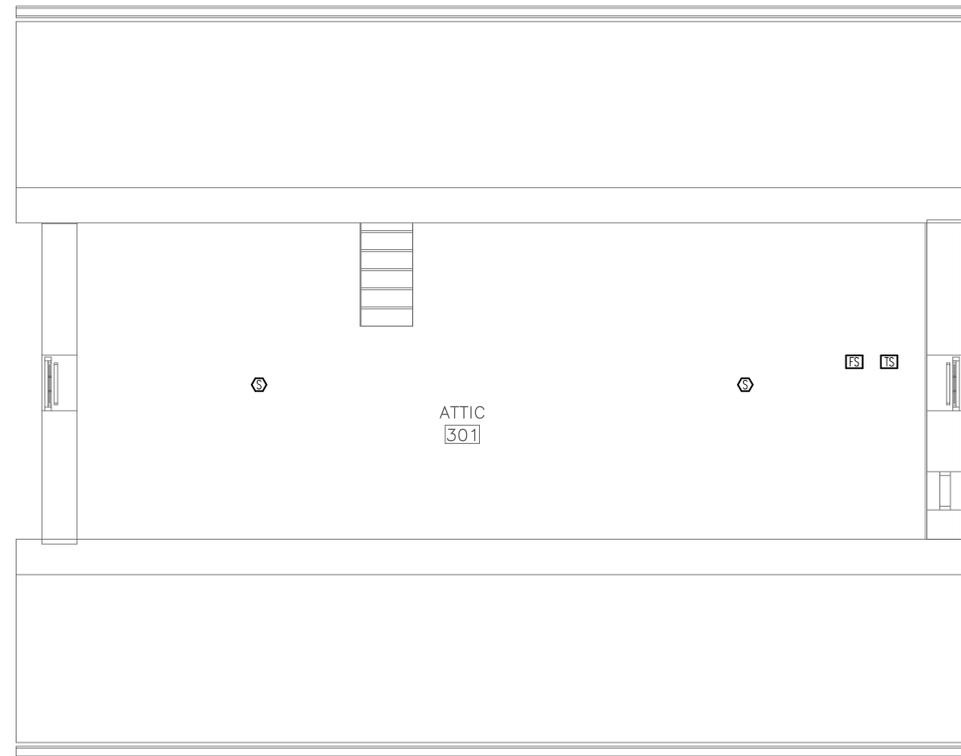


ISSUED FOR BID A/E FIRM - P15PC00037				DESIGNED: JLW	SUB SHEET NO. FA1.2	TITLE OF SHEET SECOND FLOOR -- FIRE ALARM NEW WORK	DRAWING NO. 305
PRIME/ARCH: GWWD, INC. BALTIMORE, MD	CIVIL: CS DAVIDSON GETTYSBURG, PA	MECHANICAL: HENRY ADAMS TOWSON, MD	PLUMBING: HENRY ADAMS TOWSON, MD	CADD: JLW			
LANDSCAPE: CS DAVIDSON GETTYSBURG, PA	STRUCTURAL: SGH WASHINGTON, DC	ELECTRICAL: HENRY ADAMS TOWSON, MD	FIRE PROTECTION: HENRY ADAMS TOWSON, MD	TECH. REVIEW: JST	DRAWING NO. 305	DRAWING NO. 305	
				DATE: 02/28/2022			DRAWING NO. 305
					PMIS/PKG NO. 257363	SHEET 94 of 95	
					GETTYSBURG NATIONAL MILITARY PARK		

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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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1 ATTIC — FIRE ALARM NEW WORK
FA1.3 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: 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