COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES

JOSH SHAPIRO, GOVERNOR REGINALD B. MCNEIL, II, SECRETARY OF GENERAL SERVICES

PROFESSIONAL / ARCHITECT ZIMMERMAN STUDIO, LLC 1927 SOUTH BROAD STREET, FIRST FLOOR PHILADELPHIA, PA PHONE (267) 687-5709

CIVIL ENGINEERING CONSULTANT DAVID MASON + ASSOCIATES 123 SOUTH BROAD STREET, STE. 1130 PHILADELPHIA, PA PHONE (215) 372-3400

STRUCTURAL ENGINEERING CONSULTANT DAVID MASON + ASSOCIATES 123 SOUTH BROAD STREET, STE. 1130 PHILADELPHIA, PA PHONE (215) 372-3400



HARRISBURG, PENNSYLVANIA

PROJECT NO. D.G.S. C-0961-0044 PHASE 01 DMVA BUILDING 237 RENOVATION BIDDLE AIR NATIONAL GUARD BASE HORSHAM, PA 19044

> MECHANICAL ENGINEERING CONSULTANT TREFZ ENGINEERING, INC. 601 DRESHER ROAD - SUITE 275 HORSHAM, PA 19044 PHONE (215) 572-8115

IG COMMON TO ALL CONTRACTS LIST							
COMMON TO ALL CONTRACTS							
SHEET /IATIONS, LEGENDS & SCHEDULES FETY PLAN							
DNSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.1							
DEMO PLAN NG & UTILITY ON CONTROL DETAILS							
RAL NOTES CTION TABLES AL FOUNDATION DETAILS AL STEEL DETAILS DATION PLAN FRAMING PLAN ATION SECTIONS SECTIONS							
LITION PLAN G DEMOLITION PLAN DEMOLITION PLAN LITION SECTIONS ING DEMOLITION ELEVATIONS R PLAN RGED PLAN MEN'S & WOMEN'S PLAN/ENLARGE CANOPY I PLAN ING ELEVATIONS ING SECTIONS SECTIONS SECTIONS SECTIONS IOR ELEVATIONS MASONRY BUILDING IOR ELEVATIONS PREMANUFACTURED BUILDING CTED CEILING PLANS RIOR WALL DETAILS RIOR OPENING DETAILS DETAILS IOR DETAILS							

MECHANICAL CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.2
 H-000 LEGENDS AND ABREVIATIONS HD-100 MECHANICAL DEMOLITION PLAN H-100 MECHANICAL NEW WORK PLANS H-101 MECHANICAL PIPING NEW WORK H-400 MECHANICAL SECTIONS H-500 DETAILS - AIR H-501 DETAILS - HYDRONIC H-502 DETAILS - CONTROLS H-600 SINGLE LINE DIAGRAMS H-601 SCHEDULES
PLUMBING CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.3
 P-000 LEGENDS AND ABBREVIATIONS PD-100 SANITARY DEMOLITION PLANS PD-101 PLUMBING PIPING DEMOLITION P-100 SANITARY NEW WORK PLANS P-101 PLUMBING PIPING NEW WORK P-600 SINGLE LINE DIAGRAM
FIRE PROTECTION CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.3
FP-000 LEGENDS, ABREVIATIONS & FLOW TEST FP-100 DEMOLITION & NEW WORK PLAN
ELECTRICAL CONSTRUCTION CONTRACT D.G.S. CC-0961-0044 PHASE1.4
E-000 LEGENDS AND ABBREVIATIONS ED-100 FIRST FLOOR DEMOLITION PLAN E-100 NEW WORK POWER PLAN-WEST E-101 NEW WORK POWER PLAN-EAST E-102 NEW LIGHTING PLAN-WEST E-103 NEW LIGHTING PLAN- EAST E-104 LOW VOLTAGE SYSTEMS-WEST E-105 LOW VOLTAGE SYSTEMS-EAST E-106 ROOF PLAN E-300 SECTIONS E-500 DETAILS E-501 DETAILS E-600 SINGLE LINE DIAGRAMS E-601 SCHEDULES

ELECTRICAL ENGINEERING CONSULTANT TREFZ ENGINEERING, INC. 601 DRESHER ROAD - SUITE 275 HORSHAM, PA 19044 PHONE (215) 572-8115









VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: BAR IS NOT ONE (1) INCH LONG ADJUST SCALE ACCORDINGLY CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED

/ITHOUT PROFESSIONAL & BUREAU

OF CONSTRUCTION APPROVAL.



	PARTITION	TYPE SCHEDULE
NG TYPE NG HEIGHT ' SUSPENDED CEILING WITH KETED GRID / EXISTING.	$\langle 1 \rangle$	3 5/8" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB ON BOTH SIDES OF FRAMING, EXTEND FULL HEIGHT. FILL PARTITION WITH BATT INSULATION.
TURE RESISTANT IN ALL WET ITIONS SOFFIT, CEILING, AND EXISTING HARD NG (PLASTER, GWB, CONCRETE)	2	3 5/8" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" MOISTURE RESISTANT GWB ON WET SIDE OF FRAMING TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB ON DRY SIDE OF FRAMING TO UNDERSIDE OF STRUCTURE ABOVE. FILL PARTITION WITH BATT INSULATION.
	3	3 5/8" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" MOISTURE RESISTANT GWB ON BOTH SIDES OF FRAMING, EXTEND FULL HEIGHT. FILL PARTITION WITH BATT INSULATION.
NKLER HEAD AND ESCUTCHEON NG MOUNTED EGRESS LIGHT NG MOUNTED EGRESS LIGHT	4	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB ON BOTH SIDES OF FRAMING, EXTEND FULL HEIGHT. FILL PARTITION WITH BATT INSULATION.
IRN DIFFUSER	4a	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB ON ROOM SIDE OF FRAMING, EXTEND FULL HEIGHT.
PLY DIFFUSER MATIC DETECTOR ELECTRICAL DOCUMENTS FOR TYPE		6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (2) 5/8" GWB ON BOTH SIDES OF FRAMING, EXTEND 6" ABOVE CEILING. FILL PARTITION WITH BATT INSULATION.
NG MOUNTED OCCUPANCY SENSOR ELECTRICAL DOCUMENTS FOR TYPE MOUNTED OCCUPANCY SENSOR ELECTRICAL DOCUMENTS FOR TYPE	4c>	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB TYPE "X" ON ROOM SIDE OF FRAMING, EXTEND FULL HEIGHT.
RECESSED LED LIGHT FIXTURE	5	6" METAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (2) 5/8" MOISTURE RESISTANT GWB ON BOTH SIDES OF FRAMING, EXTEND FULL HEIGHT.
I' RECESSED MOISTURE RESISTANT LED T FIXTURE CESSED LED LIGHT FIXTURE.	6	MASONRY MATCHING EXISTING. FILL EXISTING OPENING. TOOTH INTO EXISTING MASONRY.
TURE RESISTANT IN ALL WET LOCATIONS ENDANT ROUND LED LIGHT FIXTURE.		MASONRY MATCHING EXISTING. TOOTH INTO EXISTING MASONRY.
ENDANT ROUND LED LIGHT FIXTURE.		CONCRETE WALL AROUND WEAPONS VAULT. SEE STRUCTURAL DRAWINGS.
ANDUNTED POINT SOURCE LED LIGHT JRE. DANT ROUND LED LIGHT FIXTURE	8	6" COLD FORMEDMETAL STUDS @ 16" O.C. FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. (1) 5/8" GWB TYPE "X" ON ROOM SIDE OF FRAMING, EXTEND FULL HEIGHT. MP-3 FASTENED TO EXTERIOR SIDE OF FRAMING.

A1	5' - 4"	6' - 6"	2	ALUMINUM	IG-1	FIXED / FIXED	2' - 0"	EXISTING OPENING
В	5' - 2"	4' - 0"	1	ALUMINUM	IG-1	FIXED / FIXED	2' - 8"	EXISTING OPENING
С	5' - 0"	2' - 8"	1	ALUMINUM	IG-1	FIXED	3' - 0"	EXST AND NEW OPENING
D	4' - 0"	3' - 4"	2	ALUMINUM	IG-1	FIXED	3' - 4"	EXST AND NEW OPENING
E	3' - 0"	9' - 0"	2	ALUMINUM	IG-1	FIXED / FIXED	7' - 0"	EXST AND NEW OPENING
E1	3' - 0"	9' - 0"	2	ALUMINUM	IG-1	FIXED / FIXED	7' - 0"	EXST AND NEW OPENING
F	3' - 0"	15' - 0"	1	ALUMINUM	IG-1	FIXED / FIXED / FIXED	8' - 5"	EXST AND NEW OPENING
G	3' - 0"	12' - 0"	3	ALUMINUM	IG-1	FIXED / FIXED	8' - 5"	EXST AND NEW OPENING
Н	3' - 0"	3' - 0"	2	ALUMINUM	IG-1	FIXED	7' - 0"	NEW OPENING
I	4' - 0"	3' - 0"	2	ALUMINUM	G-1	FIXED	3' - 0"	INTERIOR
	5' - 2"	2' - 8"	1		IG-1		2' - 8 1/8"	EXST AND NEW OPENING
SEE WINDOV	N ELEVATIONS	BELOW FOR	TYPE "F" A	ND "G"				

117-1	A WD	CLR	3	5' - 0"	7' - 2"	1	HM	PTD		4		
117A-1	A WD	CLR	3	5' - 0"	7' - 2"	1	HM	PTD		4		
118-1	A WD	CLR	3	5' - 0"	7' - 0"	1	HM	PTD		4		
118A-1	A WD	CLR	3	5' - 0"	7' - 2"	1	HM	PTD		4		
120-1	A WD	CLR	3	5' - 0"	7' - 0"	1	HM	PTD		5		
120-2	A MET	AL PTD	3	5' - 0"	7' - 0"	1	НМ	PTD		11		
121-1	C WD	CLR	3	5' - 0"	7' - 2"	1	HM	PTD	G-1	1		
121-2	C MET	AL PTD	3	5' - 0"	7' - 0"	1	HM	PTD	G-1	1	EXISTING (DPENING
122-1	C WD	CLR	3	5' - 0"	7' - 2"	1	HM	PTD	G-1	3		
						Wind	ow Sche	dule				
Type Mark	Height	Width	Count	Con	struction	Glazino	I.	Opera	ation	Si	l Heiaht	Comments
71				1	21		·					
A	5' - 4"	6' - 6"	3	ALUN	IINUM	IG-1	FIXE	D / FIXE	ED	2' - 0'	1	EXISTING OPENING
A1	5' - 4"	6' - 6"	2	ALUM	IINUM	IG-1	FIXE	D / FIXE	ED	2' - 0'	I	EXISTING OPENING
D	EL 01	41 0"	4			10.1			- D	0 0	1	

	Door	Door		Deer Width	Deerlleight	Frame	Frame	Frame		Hardware	
Mark	Туре	Material	Door Finish	Door width	Door Height	Туре	Material	Finish	Glazing	Set	Comments
104.4	0.4			41 01	01 01	4	1184	DTD	0.4	7	
101-1	C-A	WD	CLR	4'- 6"	8' - 0"	1	HM		G-1	1	
101-2	C-A	WD	CLR	4' - 6"	8' - 0"	1	HM		G-1	1	
101-3	E	AL/GL	CLR	6' - 0"	8' - 2'3/4"	SF	AL	CLR	IG-1	6	SEE STORE FRONT TYPE ELEVATIO
102-1	F .	MIL		16' - 0"	15' - 7"	MIL	MIL			10	
102-2	A	MTL	PTD	3' - 0"	7' - 0"	1	HM	PTD		1	
103-1	C-C	WD	CLR	6' - 0"	7' - 0"	1	HM	PTD	G-1	8	
103-2	A	MTL	PTD	3' - 0"	7' - 0"	1	HM	PTD		1	
103-3	F	MTL	PTD	12' - 0"	10' - 0"	MTL	MTL	PTD		10	
104-1	C	WD	CLR	3' - 0"	7' - 0"	1	HM	PTD	G-1	2	
105-1	A-A	WD	CLR	5' - 0"	7' - 0"	1	HM	PTD		9	
106-1	A	WD	CLR	3' - 0"	7' - 0"	1	HM	PTD		4	
107-1	A	WD	CLR	3' - 0"	7' - 0"	1	HM	PTD		5	
109-1	В	WD	CLR	3' - 0"	7' - 0"	1	HM	PTD	G-1	5	
110-1	D	WD	CLR	3' - 0"	7' - 2"	1	HM	PTD	G-1	5	
111-1	A	METAL	PTD	2' - 6"	7' - 0"	1	HM	PTD		11	EXISTING OPENING
112-1	С	WD	CLR	3' - 0"	7' - 0"	1	HM	PTD	G-1	2	EXISTING OPENING
113-1	С	WD	CLR	3' - 0"	7' - 0"	1	HM	PTD	G-1	2	
114-1	С	WD	CLR	3' - 0"	7' - 2"	1	HM	PTD	G-1	2	
115-1	С	WD	CLR	3' - 0"	7' - 2"	1	HM	PTD	G-1	2	
116-1	A	WD	CLR	3' - 0"	7' - 2"	1	НМ	PTD		3	
117-1	A	WD	CLR	3' - 0"	7' - 2"	1	НМ	PTD		4	
117A-1	A	WD	CLR	3' - 0"	7' - 2"	1	НМ	PTD		4	
118-1	A	WD	CLR	3' - 0"	7' - 0"	1	HM	PTD		4	
118A-1	A	WD	CLR	3' - 0"	7' - 2"	1	HM	PTD		4	
120-1	A	WD	CLR	3' - 0"	7' - 0"	1	НМ	PTD		5	
120-2	Δ	METAI	PTD	3'-0"	7' - 0"	1	НМ	PTD		11	
121-1	C C	WD	CLR	3'-0"	7' - 2"	1	НМ	PTD	G-1	1	
121_2		METAI		3'_0"	7' _ Λ"	1	нм		G_1	1	

ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY .2, .3, OR .4 CONTRACTOR	COMMON DEPART
	D62 C-
VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:	BUILD BIDDL
0 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	ABBRI
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY <i>IB</i> CHECKED BY <i>AK</i>

02/27/2024 Construction D

BID SET 08/26/2024 CONSTRUCTION 07/31/2024 07/01/2021 CONSTRUCTION 04/15/2024 DESIGN DEVELO

T 2024		DESIGN DEVELOPMENT 01/26/2024
RUCTION 2024	N DOCUMENTS REVISED	
RUCTION 2024	N DOCUMENTS	
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uction [Document– August	26, 2024
		SIGNATURE
ZIN	MMERMA	ARCHITECTURE + PROJECT MANAGEMENT
ART	IWEALTH MENT OF G harrisburg, f	OF PENNSYLVANIA ENERAL SERVICES PENNSYLVANIA
ECT No C-	-0961-C	044 PHASE 01
ЛГD	ING 237	RENOVATION
DL	E AIR GU horsham,	JARD STATION PA 19044
BRE	EVIATIONS	S, LEGENDS &
	SCHE	DULES
	DATE	DRAWING No.
Υ	SCALE As indicated	G-1.0

- 2018 INTERNATIONAL FUEL GAS CODE, WITHOUT AMENDM	MENTS. 11 OF THE 2021 INTERNATIONAL BUILDING CODE ENTS.	Ξ).
PENNSYLVANIA CODE TITLE 34. LABOR AND INDUSTRY, PART 1. CH <u>REGULATIONS.</u> <u>IEBC CHAPTER 5:</u> CLASSIFICATION OF WORK ALTERATION - LEVEL 2 (WORK AREA EXCEEDS 50 PERCENT OF BU	IAPTER 3A. <u>BOILER AND UNFIRED PRESSURE VE</u> ILDING AREA).	<u>SSEL</u>
EXISTING BUILDING AREA: 9,650 SF IEBC CHAPTER 10: CHANGE OF OCCUPANCY PARTIAL CHANGE OF OCCUPANCY FROM S-1 (MOTOR REPAIR GAF SCHOOL OR ACADEMIC PROGRAM. IBC CHAPTER 10 SECTION 1004 FIRE PROTECTION: THERE IS NO C REQUIREMENT IN CHAPTER 9 OF THE INTERNATIONAL BUILDING C	RAGE) TO B (TRAINING AND SKILL DEVELOPMENT HANGE IN THE FIRE PROTECTION SYSTEM THRE ODE.	T NOT IN SHOLD
IBC CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION: USE GROUP: ; B BUSINESS (TRAINING AND SKILL DEVELOPMENT N TABLE 506.2: ALLOWABLE AREA TYPE II, B OCCUPANCY, S: ALLOWABLE AREA = 92,000 SF ACTUAL AREA = 9.650 SF	OT IN SCHOOL OR ACADEMIC PROGRAM, OFFIC	ES)
IBC CHAPTER 6: TYPES OF CONSTRUCTION: EXISTING PREMANUFACTURED BUILDING: TYPE IIB, NON-COMBUS EXISTING MASONRY BUILDING: TYPE IIB, NON-COMBUSTIBLE. RENOVATIONS TO MATCH THE EXISTING BUILDING CONSTRUCTIO	TIBLE. N TYPE.	
REQUIRED FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS PRIMARY STRUCTURAL FRAME: BEARING WALLS (EXTERIOR): BEARING WALLS (INTERIOR):	(PER TABLE 601): 0 HOURS 0 HOURS (NOT LESS THAN THE FIRE- RESISTANCE RATING BASED ON FIRE SEPARA DISTANCE, PER TABLE 602) 0 HOURS	ATION
NON-BEARING EXTERIOR WALLS AND PARTITIONS: NON-BEARING INTERIOR WALLS & PARTITIONS: FLOOR CONSTRUCTION: ROOF CONSTRUCTION:	0 HOURS (BASED ON FIRE SEPARATION DISTA TABLE 602) 0 HOURS 0 HOURS 0 HOURS 0 HOURS	ANCE, PER
TABLE 602, FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERFIRE SEPARATION DISTANCE = X (FEET)OCCUPANCY GROUP B, TYPE IIB $10 \le X < 30$:0 HOUR (NO BUILDINGS WITHIN 10 FEET OF BUILDINGS WITHIN 10 FEET OF BUILDINGS WITHIN 10 FEET OF BUILDINGS	RIOR WALLS BASED ON SEPARATION DISTANCE:	
SECTION 903. GROUP B, AN AUTOMATIC SPRINKLER SYSTEM IS NO CRITERIA NOTED FOR THE OCCUPANCY. FIRE SPRINKLER SYSTEM TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPA	OT REQUIRED. THE FIRE AREA DOES NOT MEET I IS TO BE INSTALLED THROUGHOUT. NT:	ANY OF THE
BUSINESS AREAS: CLASSROOM: EXERCISE ROOM LOCKER ROOMS STORAGE ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM: RENOVATIONS EXISTING BUILDING OCCUPANT LOAD:	150 GROSS SQUARE FEET PEF 20 NET SQUARE FEET PER OC 50 GROSS SQUARE FEET PER 50 GROSS SQUARE FEET PER 300 NET SQUARE FEET PER 300 GROSS SQUARE FEET PEF	R OCCUPANT. CUPANT. OCCUPANT. OCCUPANT. CCUPANT. R OCCUPANT.
FIRST FLOOR: STORAGE: 1,402 SF / 300 = 5 OCCUPANTS BUSINESS: 2,803 SF / 150 = 19 OCCUPANTS CLASSROOM: 404SF / 20 = 21 OCCUPANTS MULTI: 3,182 SF / 50 = 64 OCCUPANTS LOCKERS: 827 SF / 50 = 17 OCCUPANTS TOTAL: 126 OCCUPANTS.		
IECC MINIMUM PRESCRIPTIVE BUILDING ENVELOPE: MONTGOMERY COUNTY IS CLIMATE ZONE 4A IECC TABLE C402.1.3 OPAQUE THERMAL ENVELOPE INSULATION C	OMPONENT MINIMUM REQUIREMENTS, R-VALUE	EMETHOD:
ROOFS, INSULATION ENTIRELY ABOVE DECK ROOFS. METAL BUILDINGS WALLS, ABOVE GRADE MASS (CMU, CONCRETE) WALLS, ABOVE GRADE METAL BUILDING OPAQUE DOORS, NON-SWINGING	R-30 C.I. (CONTINUOUS INSULATION) R-19 + R11 LS R-11.4 C.I. R-13 + R-13 C.I. R-4.75	
IECC TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUN FIXED FENESTRATION: OPERABLE FENESTRATION: ENTRANCE DOORS:	1 U-FACTOR REQUIREMENTS: 0.38 0.45 0.77	
IECC TABLE C402.5.2 MAXIMUM AIR LEAKAGE RATE FOR FENESTRA ROLLING DOORS:	ATION ASSEMBLIES: 1.00 CFM/FT2/	COMMON PATH OF EGRESS 44'
		"91/6 8 - 197 8 - 17 sec EGRESS PATH AND MAXIMUM TRAVEL
		DISTANCE
	-	BUSINESS 2677 SF 18 Occupants
	75' - 0 5/8	
		4' - 4"
		17' - 1





	DESIGN DEVELOPMENT 01/26/2024
I DOCUMENTS REVISED	
I DOCUMENTS	
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RECORD	REVISIONS
)ocument- August	26, 2024
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MERMA	ARCHITECTURE + PROJECT MANAGEMENT
IWEALTH MENT OF G	OF PENNSYLVANIA ENERAL SERVICES PENNSYLVANIA
-0961-0 ING 237 E AIR GI	0044 PHASE 01 RENOVATION JARD STATION
HORSHAM,	PA 19044
IFE SAFI	ETY PLAN
DATE 08/26/2024	DRAWING No.
SCALE As indicated	6-2.0



SURVEY NOTES:

1. THE SURVEY IS BASED UPON PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES 1.1. "SITE PLAN - ELECTRICAL, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984. 1.2. "SITE PLAN & DETAILS, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984. 2. TOPOGRAPHIC & UTILITY INFORMATION SHOWN BASED ON A FIELD SURVEY PERFORMED BY LANGAN ENGINEERING &

ENVIRONMENTAL SERVICES DURING AUGUST 2023.

3. THE MERIDIAN IS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).

4. VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

5. OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION OF ANY TYPE.

6. BOUNDARY, WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.

7. UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY UNDERGROUND SERVICES, INC.), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS, UNLESS SPECIFICALLY NOTED HERE-ON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON. PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

8. THIS PLAN IS NOT VALID UNLESS STAMPED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL OR DIGITAL SIGNED AND SEALED.

GENERAL NOTES: BUILDING 237 IS PART OF BIDDLE AIR GUARD STATION PROPERTY. THE PARCEL ID FOR THE PROPERTY IS 360004050009. THE TOTAL TRACT ACREAGE OF THE BIDDLE AIR GUARD STATION PER PROPERTY RECORD IS 1006.32 ACRES THE PROPOSED ACREAGE OF THE SITE IMPROVEMENT IS 0.0093 ACRES (404 SQFT)



EXISTING TRANSFORMER 225 KVA

LEGE	ND
DEM	0
BUILDING OVERHANG	
CONCRETE PAD	
BOLLARD	٠

LEGEND							
EXISTING							
BUILDING							
BUILDING OVERHANG							
WALL							
BOLLARD	٠						
FENCE							
PAVEMENT MARKING							
GUARD RAIL							
LIGHT	*						
MONITORING WELL	- 						
GAS METER							
ELECTRIC MANHOLE	0						
STORM MANHOLE	Ø						
SANITARY MANHOLE	S						
ELECTRIC METER	0						
FIRE HYDRANT	42						
ELECTRIC METER	EME						
SEWER							
DOOR	\triangleright						
GAS VALVE	G						
TREE/ BUSH	\Diamond						

ASPHALT MILL AND OVERLAY GENERAL NOTES: 1. HATCHED AREA = 18,325 SQ FT TO MILL & OVERLAY.

- PAINT & RE-STRIPE NEW PARKING LAYOUT.
- AREAS OF DISTURBED GROUND TO BE REGRADED WITH STORM DRAINAGE SLOPE MIN 2% TO MAINTAIN POSITIVE DRAINAGE.
- 4. MATCH UP TO EXISTING PAVING. 5. CONTRACTOR TO REMOVE EXISTING BOLLARDS, BACKFILL AND PATCH WITH

CONCRETE	_ .			
JURISDICTION	# OF PARKING SPOTS	REQUIRED # OF HANDICAP PARKING SPOTS	STALL WIDTH	STALL LENGTH
HORSHAM	13	1	9 feet	20 feet
TOWNSHIP	15		Jieet	201000



LEG	END
PROPO	DSED
BUILDING CANOPY	
CONCRETE SIDEWALK	
SANITARY MANHOLE	Ø
ASPHALT MILL & OVERLAY	
BOLLARD	•
GAS LINE	GG
EDGE OF TRENCH	
LIMITS OF DISTURBANCE	-LOD-LOD-LOD-LOD-LOD-LOD-
STAGING/ LAYDOWN AREA	xxx
PROPOSED TRAILER	· ·
LIMIT OF CONTRACT LINE	
PROJECT BOUNDARY LINE	

DDENDUM #3	
RECORD F	REVISIONS
	20, 2024
REGISTERED PROFESSIONAL MES C. GLEATON JR.	PROFESSIONAL ENGINEER EXPIRES 09-30-2025 James Alado SIGNATURE
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IWEALTH (MENT OF G harrisburg, f	OF PENNSYLVANIA ENERAL SERVICES PENNSYLVANIA
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ACT NUMBER 287 OF 1974 AS AMENDED IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 (AS AMENDED) AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO THE START OF CONSTRUCTION. ADDITIONAL TELECOMMUNICATIONS/FIBER OR OTHER UTILITY PROVIDERS (LISTED BELOW) MAY HAVE FACILITIES WITHIN RENTED DUCTS AND MAY OR MAY NOT SHOW UP ON THE ONE CALL LIST. IN ADDITION, IF THERE ARE RESPONSES SHOWN AS "CLEAR-NO FACILITIES" TO A ONE CALL REQUEST, THERE STILL MAY BE A CONFLICT. PENNSYLVANIA ONE CALL: 1-800-242-1776 SERIAL NO: 20241433927 HORSHAM TOWNSHIP HORSHAM WATER AND SEWER AUTHORITY - MAIN OFFICE 1025 HORSHAM ROAD HORSHAM, PA 19044 617 HORSHAM ROAD CONTACT: JOHN RAWLUK HORSHAM, PA 19044 PHONE: (215) 643-3131 CONTACT: MICHAEL HEALEY FAX: (215) 643-0448 PHONE: (215) 672-8011 JRAWLUK@HORSHAM.ORG TRANSCONTINENTAL GAS/ PECO ENERGY C/O USIC WILLIAMS GAS 450 S HENDERSON RD SUITE B KING OF PRUSSIA, PA 19406

CONTACT: NIKKIA SIMPKINS

COMCAST

4400 WAYNE AVENUE

PHILADELPHIA, PA 19140

EMAIL: NIKKIASIMPKINS@USICLLC.COM

UTILITY USER LIST

EMAIL: JUSTIN.ADAMS@WILLIAMS.COM

1050 VIRGINIA DR

EMAIL: CONTACT@HORSHAMWATER-SEWER.COM

99 FARBER RD PRINCETON, NJ 08540

CONTACT: JUSTIN ADAMS

VERIZON PENNSYLVANIA LLC

CONTACT: ROBERT HARVEY EMAIL: BOB_HARVEY@CABLE.COMCAST.COM FORT WASHINGTON, PA 19034 1 APOLLO ROAD PLYMOUTH MEETING, PA 19462 CONTACT: TOM DEMSEY CONTACT: TOM DEMSEY



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BUILDING CANOPY



<pre>1.1 DESIGN CRITERIA 1. BUILDING CODE: ICC INTERNATIONAL BUILDING CODE,</pre>	2018 EDITION 2.1 (- כ(
2. DESIGN LOADS: a. DEAD LOAD: MATERIAL b. LIVE LOAD: 100 PSF	SELF-WEIGHT	W: Pl F(
3. WIND LOAD: BASIC WIND SPEED: 115 MPH WIND IMPORTANCE FACTOR, (Iw): 1.0	2.2 2.3	A T A
WIND EXPOSURE: B INTERNAL PRESSURE COEFFICIENT: ±0.18	2.4 2.5	S F P
4. SEISMIC LOAD: a. SEISMIC DESIGN CATEGORY: B SS = 0.188g $S1 = 0.048gb. SITE CLASS: D$	2.6	S T
SDS = 0.201 SD1 = 0.078 C. EQUIVALENT LATERAL FORCE PROCEDURE:	2.8 2.9	S A D
5. SNOW LOAD: GROUND SNOW LOAD, (Pg): 25 PSF SNOW EXPOSURE FACTOR, (Ce): 0.9	2.10	P
SNOW IMPORTANCE FACTOR, (Is): 1.0 SNOW THERMAL FACTOR, (Ct): 1.0	2.11	W E
1.2 THE PLAN AND DETAILS HEREIN ARE BASED ON LIMITE OBSERVATIONS AND EXISTING DRAWINGS. ANY DISCRE BETWEEN EXISTING FIELD CONDITIONS AND THE DRAW BE BOUGHT TO THE IMMEDIATE ATTENTION OF THE EN	D SITE ANCIES NGS SHALL INEER.	
1.3 GENERAL REQUIREMENTS A. CONSTRUCTION MEANS AND METHODS		
FOR JOB SITE CONDITIONS DURING THE COURSE OF SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WOR	THE WORK, INCLUDING REQUIREMENT SHALL APPLY KING HOURS: AND THAT	
CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD E HARMLESS FROM ANY AND ALL LIABILITY, REAL OR WITH THE PERFORMANCE OF THE WORK ON THIS PROD	AVID MASON & ASSOCIATES ALLEGED, IN CONNECTION ECT, EXCEPTING FOR LIABILITY	
ARISING FROM THE SOLE NEGLIGENCE OF DAVID MAS 2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTO	ON & ASSOCIATES. STRUCTURE. THEY DO NOT R SHALL PROVIDE ALL	
MEASURES NECESSARY TO PROTECT THE NEW AND EXI CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BU BRACING, EARTH RETENTION SYSTEMS, SHORING FOR	STING STRUCTURES DURINGPART 3T NOT BE LIMITED TO:3.1 5LOADS DUE TO CONSTRUCTION3.1 5	- ST
EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALL VISITS TO THE SITE BY DAVID MASON & ASSOCIATE OF THE ABOVE ITEMS.	Y COMPLETED WORK. OBSERVATION S SHALL NOT INCLUDE INSPECTION	
3. THE CONTRACT DOCUMENTS DO NOT ACCOUNT FOR THE OF STRUCTURAL ELEMENTS DURING THE COURSE OF T SHALL BE RESPONSIBLE FOR CONSIDERING THE IMPA	EFFECTS OF THERMAL MOVEMENT HE WORK. THE CONTRACTOR B. A CT OF THERMAL MOVEMENTS	4L Sl
DOCUMENTS ARE LOCATED AND DIMENSIONED AS REQU STRUCTURE.	IRED FOR THE COMPLETED (C. M	4N 20 M3
4. DAVID MASON & ASSOCIATES SHALL NOT HAVE CONTR AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR (TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR AND PROCRAMS IN CONNECTION WITH ANY CONSTRUCT	ONSTRUCTION MEANS, METHODS, 3 SAFETY OR SAFETY PRECAUTIONS TON ACTIVITIES SINCE	L. L.
THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY 5. DAVID MASON & ASSOCIATES SHALL NOT BE RESPONS SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRU	UNDER THE CONTRACT.	2.
ACCORDANCE WITH THE CONTRACT DOCUMENTS. DAVIE NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF OR ANY OF THEIR AGENTS. OR EMPLOYEES. OR ANY	MASON & ASSOCIATES SHALL D. A CONTRACTOR, SUBCONTRACTOR, OTHER PERSONS PERFORMING	۹C 1.
PORTIONS OF ANY CONSTRUCTION ACTIVITIES. 6. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED REQUIRED FOR STABILITY OF THE STRUCTURE DURIN	FORM. TEMPORARY SUPPORTS G ALL INTERMEDIATE STAGES	2.
OF CONSTRUCTION SHALL BE DESIGNED AND PROVIDE B. EXISTING CONDITIONS	D BY CONTRACTOR. E. (20 20 //
 CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTIN TO BID AND COMPLETE THE WORK. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND 	G CONDITIONS AS REQUIRED ELEVATIONS OF EXISTING	
CONSTRUCTION. ANY EXISTING DIMENSIONS AND ELE CONTRACT DOCUMENTS ARE NOT AS-BUILT DIMENSION FROM THE ORIGINAL STRUCTURAL DRAWINGS OR OTHE	VATIONS SHOWN ON THE S, BUT WERE OBTAINED F. F R DRAWINGS AND DOCUMENTS	RE NC
MADE AVAILABLE BY THE OWNER. IT IS THE RESPONDENT TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, A PRIOR TO BEGINNING FABRICATION, CONSTRUCTION, ANY DISCREPANCIES DEFINITION FOR THE EXISTING CONDI-	NSIBILITY OF THE CONTRACTOR G. W ND MEMBER SIZES AS REQUIRED 4 ETC. H. I	VE An DC
3. ANY DISCREPANCIES BETWEEN THE EXISTING CONDI- INDICATED IN THE CONTRACT DOCUMENTS SHALL BE OF ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO	BROUGHT TO THE ATTENTION FOR INFORMATION FOR INFORITANA FOR INFORMATION FOR INFORMATION FOR IN	34 20 F]
4. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORAR / RELOCATION OF ANY NON-STRUCTURAL ELEMENTS N THE STRUCTURAL WORK FOLLOW ALL APPLICABLE CO	REMOVAL AND REPLACEMENT	אך רו 16
AND REQUIREMENTS OF AFFECTED TRADES. CONSIDER BE INCLUDED IN THE CONTRACTOR'S BID.	ATION OF THIS SHALL K. T	
C. SUBMITTALS 1. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL E PRIOR TO SUBMITTING TO ARCHITECT.	E REVIEWED BY CONTRACTOR	
 REPRODUCTION OF THE CONTRACT DOCUMENTS FOR SE ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPF 	OP DRAWINGS IS NOT PERMITTED.	51
OPENING SIZES, AND LOCATIONS INDICATED ON THE WITH DOCUMENTS FROM OTHER DISCIPLINES AND NOT DISCREPANCIES.	STRUCTURAL DRAWINGS IFY ARCHITECT OF ANY	2.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING WEIGHT, OPENINGS, AND LOCATIONS OF EQUIPMENT STRUCTURAL DRAWINGS PRIOR TO ORDERING FOR REV	SIZE, METHOD OF ANCHORAGE, NOT INDICATED ON THE IEW BY DAVID MASON & M. /	4[
5. ALL SUBMITTALS REVIEWED BY DAVID MASON & ASSO GENERAL CONFORMANCE WITH THE DESIGN CONCEPT (TURE. CIATES ARE REVIEWED FOR F THE PROJECT AND GENERAL HE CONTRACT DOCUMENTS	м: _Е
ANY ACTION INDICATED IS SUBJECT TO THE REQUIP DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CORF	EMENTS OF THE CONTRACT ELATING AND CONFIRMING TION PROCESSES AND TECHNIQUES	
OF CONSTRUCTION, AND COORDINATION OF THE WORK	WITH THAT OF OTHER TRADES.)F 4L F(
1. REFERENCE TO STANDARD SPECIFICATIONS OR COL ORGANIZATION, OR ASSOCIATION OR TO CODES OF SHALL MEAN THE STANDARDS IN EFFECT AS OF DA	ES OF ANY TECHNICAL SOCIETY, 1 LOCAL OR STATE AUTHORITIES, 2 TE OF THE CONTRACT DOCUMENTS, 2	L. 2. 3.
UNLESS OTHERWISE NOTED. 2. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVEN SPECIFICATIONS OR CODES OF ANY TECHNICAL SC	T OF A CONFLICT WITH STANDARD P. U CIETY, ORGANIZATION, OR 0. 9	יי אך זן
ASSOCIATION. 3. NO PROVISION OF ANY REFERENCED STANDARD SPE OR NOT SPECIFICALLY INCORPORATED BY REFEREN	CIFICATION OR CODE, WHETHER F CE IN THE CONTRACT DOCUMENTS, R. /	4/ 2[4[
SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND ARCHITECT, DAVID MASON & ASSOCIATES, CONTRA CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOS	RESPONSIBILITIES OF OWNER,CCTOR, OR ANY OF THEIRS. FE SET FORTH IN THE CONTRACTFCONTROL TO DAVID MASCOL & ASSOCIATES	ר) יד קי
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CONTRARY TO THE PROVISIONS OF THE CONTRACT 4. ALL OMISSIONS AND CONFLICTS WITHIN THE CONTRACT BROUGHT TO THE ATTENTION OF APCHITECT PRIOR	DOCUMENTS. RACT DOCUMENTS SHALL BE	2.3
5. ALL THINGS WHICH, IN THE OPINION OF THE CON OMISSIONS, CONTRADICTIONS OR AMBIGUITIES, J SHALL BE BROUGHT TO THE ATTENTION OF THE ST	TRACTOR, APPEAR TO BE DEFICIENCIES, N THE PLANS AND SPECIFICATIONS V. (RUCTURAL ENGINEER. PLANS	2(Δι
AND/OR SPECIFICATIONS WILL BE CORRECTED, OF OF THE ALLEGED DEFICIENCY, OMISSION, CONTRA BE MADE BY THE STRUCTURAL FNGTNEER PRIOR TO	A WRITTEN INTERPRETATION DICTION OR AMBIGUITY WILL F PROCEEDING WITH THE WORK.	, 2F TI
6. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONE ANY DISCREPANCIES BETWEEN THE CONDITIONS FO IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT	ITIONS AT THE JOB SITE. NUMBER OF A STATE OF	י ע 51
PRIOR TO PROCEEDING WITH THE WORK. 7. STRUCTURAL DOCUMENTS ARE INTENDED TO BE USE MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSI	D WITH ARCHITECTURAL AND T BLE FOR COORDINATING SUCH	2F FF 47
REQUIREMENTS DURING SHOP DRAWINGS AND INCOM 8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS 9. SEE DOCUMENTS BY OTHER DISCIPLINES FOR FLOO	PORATING INTO THE WORK. B. F. R, WALL, AND ROOF OPENINGS,	VH FL F]
TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADIRON, ETC.	S, MEIAL PAN STAIRS, MISCELLANEOUS A C. F (۸۱ ۲۴ ۵۲
E. CONTRACTOR'S DELEGATED DESIGN 1. CONTRACTOR DESIGNED ELEMENTS SHALL BE DESIGNED THE FORMATING OF THE STATE OF THE STAT	D. S E. A NED BY LICENSED PROFESSIONAL DEDNSYLVANTA FOR DEPMANENT	5E 47 77
BUILDING COMPONENTS, CONTRACTOR SHALL SUBMI LOAD DATA, SUPPORT REACTIONS, AND CERTIFICA DESTONED FOR LOADS SPECTETED IN THE CONTRACT	T SHOP DRAWINGS, DESIGN 3.3 S TION THAT ELEMENTS WERE A. (T DOCUMENTS OR IN THE RUIDING	5L 20
CODE. ALL DOCUMENTS NOTED SHALL BE SEALED E IF CRITERIA INDICATED ARE NOT SUFFICIENT, S FOR ADDITIONAL INFORMATION TO ARCHITECT	Y THE LICENSED ENGINEER. V UBMIT A WRITTEN REQUEST 4 E FOLLOWING ELEMENTS AND 4)- [\/ 4] [\/
THEIR CONNECTIONS SHALL BE CONTRACTOR DESIG	NED: B. F)F ?F 4/
b. COLD-FORMED METAL FRAMING		ן. רח
b. COLD-FORMED METAL FRAMING		۲ ا ۱۹

- LIGHT GAUGE STEEL FRAMING

COLD-FORMED METAL FRAMING SHALL BE DESIGNED, FABRICATED, AND ERECTETD IN ACCORDANCE WITH "AISI S200 NORHT AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS" AND "AISI S100 NORTH AMERICAN SPECIFICATION FOR THEH DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (EDITIONS REFERENCED BY APPLICABLE BUILDING CODE) ALL FRAMING SHALL BE GALVANIZED, IN CONFORMANCE WITH ASTM A625, G-60 (OR EQUIVALENT). TOUCH UP ALL WELDS AND DAMAGED AREAS WITH APPROVED GALVANIZING TOUCH UP PAINT. ALL CONNECTION SHALL BE WELDED U.N.O WELDING SHALL BE IN ACCORDANCE WITH (AWS)D1.3, STRUCTURAL WELDING CODE - SHEET STEEL. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. PROVIDE 2 ROWS OF BRIDGING BETWEEN WALL STUDS UP TO 10'-0" TALL AND AT A MAXIMUM SPACING OF 3'-4" ABOVE 10'-0" TALL. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB. SPLICES IN STUDS SHALL NOT BE PERMITTED. DO NOT CUT STUDS.

SIDE CLIPSS SHALL BE CAPABLE OF RESISTING A LATERAL FORCE OF 500LBS ANCHOR STUD TRACKS WITH LOW-VELOCITY POWDER ACTUATED FASTENERS WITH A MINIMUM SHANK DIAMETER OF 0.145", AND A MINIMUM PENETRATION OF 1-1/8" A. LOCATE ANCHORS AT 3" FROM THE END OF WALLS, AND AT 16" O.C, MAX., 4" O.C., MIN. THROUGHOUT

PROVIDE 54 MIL TRACK AT TOP AND BOTTOM OF STUD WALLS, AND AT THE HEADERS FOR STUD ENGINEERING DESIGN AND SHOP DRAWINGS - COLD-FORMED FRAMING

- A. ALL COLD-FORMED METAL FRAMING AND ASSOCIATED CONNECTIONS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF PENNSYLVANIA. B. UNIFORM DESIGN LOADS SHALL BE AS SPECIFIED IN THE DESIGN CRITERIA OF THESE
- GENERAL NOTES. C. CONCENTRATED DESIGN LOADS BE AS SPECIFIED IN THE DESIGN CRITERIA SECTION OF
- THESE GENERAL NOTES. D. CONCENTRATED DESIGN LOADS FOR MECHANICAL EQUIPMENT AND SPRINKLER LINES SHALL
- BE CONSIDERED, IN ADDITION TO THE UNIFORM DESIGN LOADS. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. E. COLD-FORMED METAL FRAMING SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING DATA:
 - 1. NAME, SIGNATURE, AND SEAL OF THE LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN. 2. LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD-FORMED METAL FRAMING, FABRICATION, AND FASTENING AND ANCHORAGE DETAILS; INCLUDING
 - MECHANICAL FASTENERS. 3. INDICATE REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION, DETAILS AND ATTACHMENT TO ADJOINING WORK.

CONCRETE

A. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (318-14). B. ACI 350 CODE REQUIREMENTS FOR CONCRETE LIQUID CONTAINMENT CRSI HANDBOOK STRUCTURES (ACI 350-20). C. CRSI HANDBOOK (2024)

LL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES MUST FOLLOW THE LATEST ACI CODE ND THE LATEST ACI 315R-18 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". INIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

UNFORMED SURFACE PERMANENTLY IN CONTACT WITH THE GROUND..... FORMED SURFACES EXPOSED TO EARTH OR WEATHER.. a. #6 BAR AND LARGER.. b. #5 BAR AND SMALLER. .1-1/2" FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:

a. WALLS, SLABS... b. BEAMS, GIRDERS AND COLUMNS (TO TIES OR STIRRUPS).....1-1/2" AGGREGATES SHALL BE AS FOLLOWS: FINE AGGREGATE: SHALL BE CLEAN, HARD, DURABLE AND FREE OF DELETERIOUS SUBSTANCES AND CONFORM TO ASTM C33. COARSE AGGREGATE: SHALL BE CLEAN, HARD, DURABLE WITHOUT FLAT OR ELONGATED PIECES AND SHALL CONFORM TO ASTM C33. LIGHT WEIGHT AGGREGATE: SHALL BE CLEAN, HARD, DURABLE AND CONFORM TO ASTM C330. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY, IN ACCORDANCE

VITH THE FOLLOWING: STRENGTH (PSI) DENISTY (PCF) ALL CONCRETE, U.N.O 4,000

EINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED. VELDED WIRE REINFORCING SHALL BE ASTM A185 AND SHALL BE CONTACT LAP SPLICED AND WIRED TOGETHER AT LEAST 2" AT SIDE AND 6" AT ENDS. DOWELS IN WALL FOOTING SHALL BE EQUIVALENT IN SIZE AND NUMBER TO VERTICAL BARS. DOWELS MUST BE ANCHORED OR TIED IN POSITION BEFORE PLACING CONCRETE, PUSHING BARS INTO FRESHLY PLACED CONCRETE IS NOT ACCEPTABLE. TIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED INLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER. LL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER UNLESS POURED 10NOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBERS.

THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS MUST BE REFERRED TO FOR ALL MECHANICAL FLOOR REQUIREMENTS, HOUSEKEEPING PADS ND EQUIPMENT INERTIA BASES. AND THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING OF SLEEVES, OUTLET BOXES, ANCHORS, ETC. THAT MAY BE REQUIRED. PIPES. SLEEVES OR SLOTS SHALL NOT RUN THROUGH ANY BEAM OR GIRDER UNLESS SIZE AND LOCATION HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER. CONDUIT AND PIPES EMBEDDED IN WALLS, BEAMS, OR SLABS SHALL BE NO LARGER IN OUTSIDE DIMENSION THAN 1/3 THE OVERALL MEMBER THICKNESS OR 2"

MAXIMUM, AND SHALL BE PLACED NO CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER. CONDUIT AND PIPES, WITH THEIR FITTINGS, EMBEDDED WITHIN A COLUMN SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF THE COLUMN CROSS SECTION.

ADHESIVE FOR POST-INSTALLED REINFORCING DOWELS INTO CONCRETE SHALL HAVE A MINIMUM ALLOWABLE ADHESIVE BOND OF 685LB TENSION AND 285LBS SHEAR. EMBEDMENT ENGTH SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE: #3 BARS -- 4.5" #7 BARS -- 10.5" #4 BARS -- 6.0" #8 BARS -- 12.0"

#5 BARS -- 7.5" #6 BARS -- 9.0"

CHANICAL COUPLERS SHALL BE UNI-AXIAL TYPE CAPABLE OF DEVELOPING 125% F THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION. LL REINFORCING SHALL LAPPED OR DOWELED IN ACCORDANCE WITH ACI 318 AS OLLOWS, UNLESS NOTED OTHERWISE: SPLICE BARS WITH CONTACT LAPS, UNLESS NOTED OTHERWISE. USE CLASS B SPLICES, UNLESS NOTED OTHERWISE.

USE CLASS A SPLICE LENGTHS FOR DOWEL EMBEDMENT LENGTH. INLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS

T ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, ASONRY, ANCHORS, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC. ALL STRUCTURAL STEEL MUST BE PROTECTED BY 3" OF CONCRETE WHERE EARTH WOULD THERWISE BE IN CONTACT WITH STEEL. PROVIDE WATERSTOPS IN BELOW GRADE CONSTRUCTION JOINTS AND AT OTHER LOCATIONS AS INDICATED.

FOOTINGS MAY BE EARTH FORMED AT CONTRACTOR'S OPTION. PROVIDE THE FOLLOWING ADDITIONAL REINFORCING UNLESS OTHERWISE CALLED OR ON STRUCTURAL PLANS: CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONCRETE WALLS, GRADE

BEAMS AND FOOTINGS TO MATCH HORIZONTAL REINFORCING. PROVIDE #4 SLAB DOWELS AT 12" OC AT DOORS, UNLESS OTHERWISE NOTED. BARS AT OPENINGS IN SLABS AND WALLS: PROVIDE BARS WITH AREA EQUAL TO INTERRUPTED REINFORCING. PLACE ½ AT EACH SIDE OF OPENING. CONCRETE WALLS SHALL HAVE CONSTRUCTION JOINTS NOT FURTHER THAN 100'-0" APART, UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION IOINT LOCATIONS SHOULD BE PROVIDED TO THE STRUCTURAL ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR INSPECTION OF REBAR PLACEMENT, NOTICE SHALL BE GIVEN NOT LESS THAN 24 HOURS PRIOR TO CONCRETE PLACEMENT.

SLABS-ON-GRADE PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GRADE AS INDICATED IN THE STRUCTURAL DRAWINGS. IF JOINT PATTERN IS NOT INDICATED, PROVIDE JOINTS 15 FEET (+/-) IN BOTH DIRECTIONS AND LOCATED TO CONFORM TO BAY SPACING WHEREVER POSSIBLE (AT COLUMN CENTERLINES, HALF BAYS, THIRD BAYS, ETC.). LOOR SLAB CONSTRUCTION SHALL CONFORM TO GUIDELINES OF ACI 302. FLOOR FINISHED SURFACE SHALL CONFORM TO THE ACI 302 TOLERANCES FOR FLATNESS AND LEVELNESS NUMBERS (FF/FL) SPECIFIED. PROVIDE COMPRESSIBLE FILLER AND SEALANT IN SLAB-ON-GRADE AND WALL AND COLUMN INTERFACES THAT ARE NOT DOWELED TOGETHER. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS. F FLOOR DRAINS, LOCALLY SLOPE FLOOR TOWARDS DRAIN. SEE DOCUMENTS FROM THER DISCIPLINES FOR DRAIN LOCATIONS.

LABS-ON-METAL DECK (COMPOSITE AND NON-COMPOSITE) CONCRETE THICKNESS INDICATED IS NOMINAL. CONTRACTOR SHALL PLACE CONCRETE OR SLABS SO THAT THE FINISHED SURFACE IS SCREEDED LEVEL TO AN ELEVATION VITHIN 1/4" OF THE TOP OF SLAB ELEVATION SHOWN ON PLANS. CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT THE CONCRETE WHEN CALCULATING CONCRETE OUANTITY. PROVIDE SLAB BOLSTERS, HIGH CHAIRS, AND #5 SUPPORT BARS AS NECESSARY TO MAINTAIN PROPER PLACEMENT OF REINFORCING. LOOR SLAB CONSTRUCTION SHALL CONFORM TO GUIDELINES OF ACI 302. FLOOR INISHED SURFACE SHALL CONFORM TO THE ACI 302 TOLERANCES FOR FLATNESS AND LEVELNESS NUMBERS (FF/FL) SPECIFIED. CONSIDERATION SHALL BE GIVEN TO SEQUENCING OF CONCRETE PLACEMENT SO AS O CONTROL FINISH ELEVATIONS WITHIN THE SPECIFIED LIMITS. SEE COMPOSITE BEAM NOTES FOR SHORING REQUIREMENTS AT COMPOSITE SLABS.

PART 4 - REINFORCED MASONRY

D.

- 4.1 GENERAL A. MASONRY CONSTRUCTION SHALL COMPLY WITH THE ACI "BUILDING CODE
- FOR MASONRY STRUCTURES" -TMS 402-2016. B. PROVIDE CONCRETE UNIT MASONRY THAT DEVELOPS THE FOLLOWING MINIMUM NET-AREA COMPRESSIVE STRENGTH (F'M) AT 28-DAYS: 2000 PSI. C. GROUT SHALL CONFORM TO ASTM C476. GROUT SHALL BE PROPORTIONED WITH A SLUMP OF 8" TO 11" USING 3/8" NOMINAL MAXIMUM SIZE COURSE AGGREGATE.
- MORTAR SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C270 AND BE OF THE FOLLOWING TYPES WALLS BELOW GRADE: TYPE M
- BEARING WALLS: TYPE M OR S INTERIOR NON-BEARING: TYPE N
- REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, DEFORMED BARS. PROVIDE STANDARD LADDER [OR TRUSS] TYPE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A951, SPACED AT 16" ON CENTER, UNLESS NOTED OTHERWISE. PROVIDE
- REINFORCING SHALL BE OF TYPE 304 STAINLESS STEEL COMPLYING WITH ASTM A167 OR SHALL BE GALVANIZED AS FOLLOWS: 1. ALL JOINT REINFORCEMENT IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
- 2. ALL JOINT REINFORCEMENT IN INTERIOR WALLS SHALL BE MILL GALVANIZED IN ACCORDANCE WITH ASTM A641.
- AND INTERSECTIONS. MASONRY SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE.
- RAKE BACK MORTAR AND CUT 50% OF HORIZONTAL JOINT REINFORCING AT CONTROL BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. DOWELS FROM CAST-IN-PLACE CONCRETE SHALL MATCH THE VERTICAL REINFORCEMENT
- IN THE WALL ABOVE UNLESS NOTED OTHERWISE. SUCH DOWELS SHALL BE FURNISHED BY THE CONCRETE CONTRACTOR. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH THE VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS
- MAY BE GROUTED INTO A CELL ADJACENT TO THE VERTICAL WALL REINFORCING. M. REINFORCING ENTIRELY WITHIN THE MASONRY SHALL BE FURNISHED BY THE MASONRY CONTRACTOR.
- REINFORCING SHALL BE LAPPED 48 BAR DIAMETERS (OR 24" MINIMUM) WITH CONTACT Ν. LAP SPLICES. JOINT REINFORCING SHALL BE LAPPED 6".
- O. VERTICAL REINFORCING SHALL BE CENTERED IN WALL, UNLESS NOTED OTHERWISE BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 DIAMETERS OF THE REINFORCING
- MASONRY OR ADJACENT BARS AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS NOT SPLICED. GROUT VERTICAL REINFORCED CELLS AND BOND BEAMS SOLID. GROUT SOLID ALL ADDITIONAL CELLS AS NOTED ON DRAWINGS.
- Q. REINFORCING STEEL SHALL BE SECURED IN PLACE AND INSPECTED BEFORE GROUTING STARTS
- OPTION. GROUT PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 530. S. GROUT CONCRETE MASONRY BELOW GRADE SOLID. GROUT CAVITIES OF MULTI-WYTHE
- WALLS BELOW GRADE. T. ALL VERTICAL CELLS TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 2"X 3".
- U. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY IN THE POUR JOINT. V. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATIONS
- W. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS SHALL BE GROUTED SOLID IN POSITION. X. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS OF DOOR AND
- SHOWN ON THE STRUCTURAL DRAWINGS IS INTENDED TO DEFINE THE STRUCTURAL REQUIREMENTS ONLY.
- Y. CONDUITS, PIPES, AND SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER. MAXIMUM AREA OF VERTICAL CONDUITS. PIPES. OR SLEEVES PLACED IN COLUMNS OR PILASTERS SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET CROSS SECTION.

PREFABRICATED CORNER AND TEE UNITS AT CORNERS AND INTERSECTIONS. ALL JOINT

PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT BOND BEAM CORNERS

P. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM

R. VERTICAL GROUTING MAY BE EITHER "LOW LIFT" OR "HIGH LIFT" AT THE CONTRACTOR'S

WINDOW OPENINGS FOR SPECIAL COURSING AND OTHER MASONRY DETAILS. THE INFORMATION

Z. SEE PROJECT SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR MASONRY VENEER ANCHORS.

07/31/2024 CONSTRUCTION DOCUMENTS 04/15/2024 DESIGN DEVELOPMENT REVISED 02/27/2024 .G.S. PROJECT No. **VERIFY SCALE** BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: F BAR IS NOT ONE (1) INCH LONG ADJUST SCALE ACCORDINGLY CONTRACTOR SHALL FIELD VERIFY DRAWN BY ALL DIMENSIONS. TR VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED HECKED BY VITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

BID SET

08/26/2024



STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS

GENERAL The Owner will engage and employ a qualified special inspection agency or agencies to conduct special inspections of structural work as required by Chapter 17 of the 2015 International Building Code and as delineated below. Agencies that are considered qualified and acceptable to act as special inspectors will be those acceptable to the building official and/or the owner.

SPECIAL INSPECTION REPORT REQUIREMENTS SPECIAL INSPECTION REPORT REQUIREMENTS Special Inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the Building Official, Owner, Architect, Structural Engineer, and Contractor. Reports shall indicate that the structural work inspected was done in conformance to approved Contract Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official, Owner, Architect, and Structural Engineer prior to the completion of that phase of work. A final report of inspections documenting required special inspections of structural work and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the Owner and the Building Official prior to the start of work.

REQUIRED SPECIAL INSPECTIONS The following types of structural work require special inspections. Refer to individual Specification Sections for specific testing and inspecting requirements. Continuous inspection is the full-time observation of work by a qualified special inspector who is present in the area where the work is being performed. Periodic special inspection is the part-time or intermittent observation of work by a qualified special inspector who is present in the area where the work has been or is being performed and at the completion of the work.

SOILS							
	TYPE OF I	DEMARKS					
SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC					
 Verify materials below shallow foundations are adequate to achieve the design bearing capacity. 		Х					
2. Verify excavations are extended to proper depth and have reached proper material.		Х					
3. Perform classification and testing of compacted fill materials.		Х					
 Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill. 	х						
 Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly. 		Х					
Remark Notes:		_					

1. Reference the approved geotechnical report as noted in Structural General Notes and specifications.

MICROPILE (HELICAL) PILE FOUNDATION							
	TYPE OF IN	TYPE OF INSPECTION					
SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC	- REMARKS				
 Observe installation operations and record the installation equipment used, pile locations, pile dimensions, tip elevations, final depth, and final installation torque. 	x						
 Verify that correct micropile material and sizes; load transfer brackets or devices; and load transfer bracket or device fasteners are used. 		Х					
3. Load transfer bracket and anchors.		Х					
 Verify compliance with the Geotechnical Report and construction documents. 	x						
Remark Notes:							

Remark Notes:			TYPE OF INSPECTION		DEMADKS		
1. Reference the approved geotechnical report as noted in Structural G	eneral Notes and specifi	cations.		SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC	- REMARKS
]	 Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified. 		x	
SHOTCRET	EWALLS			 Verification of compressive strength of masonry prior to construction and for every 5,000 square feet during construction. 		x	
SPECIAL INSPECTION ITEM	TYPE OF I	NSPECTION	REMARKS	3. Verification of proportions of materials in premixed or preblended		х	
	CONTINUOUS	PERIODIC		4. As mesonny construction begins, verify that the following are in			
 Inspection of steel reinforcement, including size, quantity, placement and details around openings in wall. 		Х		compliance:			
Verify that formwork is plum and properly braced or tied together to maintain position, shape, location and dimensions.		Х		a. Proportions of site-prepared mortar and grout.		X	
3. Verify that concrete surface to receive shotcrete has been		x		 b. Placement of masonry units and construction of mortar joints. 		X	
thoroughly cleaned and roughened. (Bonding agents are not allowed)				c. Location of reinforcement and control joints.		x	
 Verify that nozzleman is ACI certified for the application used. (dry mix, wet mix, vertical, or overhead) 	X			5. Prior to grouting, verify that the following are in compliance:			
Inspection of shotcrete placement for proper application techniques.	х			a. Grout space.	X		
 Verify rebound was removed prior to placing initial or succeeding layer of shotcrete. 		Х		b. Grade, type and size of reinforcement and anchor bolts.		x	
7. Verify that wall thickness complies with approved submittals.	Х			c. Placement of reinforcement.		x	
 Perform additional inspections of concrete per "Concrete Construction" table of Special Inspection Tables. 				d. Proportions of site-prepared grout.		x	
9. Perform additional inspections and test in accordance with the			Frequency per	e. Construction of mortar joints.		x	
construction documents.			construction documents	6. Verify during construction:			
				a. Size and location of structural elements.		x	
SOIL NAIL ANCHOR IO	SHUTCKE	IE WALL		b. Type, size and location of anchors, including other details of	х		
SPECIAL INSPECTION ITEM	TYPE OF I	NSPECTION	REMARKS	anchorage of masonry to structural members, frames or other construction.			
	CONTINUOUS	PERIODIC		c. Welding of reinforcement (if permitted).	X		
 Inspect tieback/soil nail installation to verify size, anchor length, number of strands, nail size and coating, elevation, and angle of installation as applicable. 	x			 d. Preparation, construction and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F). 		x	
2. Inspect grouting of tiebacks/soil nails.	X			e. Placement of grout.	x		
3. Inspect length of bonded zone.	X			 Preparation of any required grout specimens and/or prisms shall be observed: 	x		

	TYPE OF	DEMARKS	
SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC	
 Inspect tieback/soil nail installation to verify size, anchor length, number of strands, nail size and coating, elevation, and angle of installation as applicable. 	x		
2. Inspect grouting of tiebacks/soil nails.	X		
3. Inspect length of bonded zone.	Х		
4. Grouting samples.		Х	
5. Ensure that all hydraulic jacks used to preform anchor tensioning have current calibration and the gauge is calibrated to appropriate increments.		x	
6. Inspect contractor's proof test or performance test tieback/soil nail.		Х	
Verify that lock off loads are consistent with approved plans and specifications.		Х	
 Review all contractor's data regarding installation and testing of tieback anchors/soil nails. 		Х	

SPECIAL INSPECTION TABLES

CONCRETE CONSTRUCTION				
	TYPE OF IN	TYPE OF INSPECTION		
SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC		
 Inspection of steel reinforcement, including size, quantity and placement. 		Х		
 Inspection of anchor rods, headed bolts, headed studs, shear stud shear reinforcing and other embedded items prior to and during placement of concrete. 		Х		
3. Inspection of anchors installed in hardened concrete.			See "Post Installed Anchors" table	
4. Verifiy use of required design mixture.		х		
 Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests. 	x		Frequency of test per specifications.	
 Inspection of concrete placement, including conveying and depositing. 	х			
 Inspection of curing procedures and maintenance of curing temperatures. 		Х		
 Verification of concrete strength before removal shores and forms from beams and slabs. 		Х		
 Verification that approved shop drawings are being used on site. 		Х		
Remark Notes: 1. Reference ACI-318 Building Code Requirements for Reinforced (Concrete.			

POST INSTALLED ANCHORS TO CONCRETE AND MASONRY			
	TYPE OF INSPECTION		DEMARKO
SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC	
1. Use of proper anchor system and manufacturer.		Х	
 Review of installer's qualifications and verification of on-site installation training, including certification by anchor manufacturer. 		Х	* See Note 1
 Anchor installation process as noted in general notes and scanning is used to locate and miss existing concrete reinforcing & post-tensioning strands. 			* See Note 2
 Verification of supporting material's condition, and scanning is used to locate and miss existing concrete reinforcing and post-tensioning strands. 		Х	
5. Proof testing as outlined in general notes.		Х	
 * Remark Notes: 1. Inspector shall be familiar with anchor manufacturer's written installation 2. Refer to manufacturer's ESR report for type of inspection periodic vs. 	on procedure and ESR r continuous.	eport.	1

MASONRY CONSTRUCTION (LEVEL B QUALITY ASSURANCE)

	SPECIAL INSPECTION ITEM	
1.	. Material verification of high-strength b	olts, nuts, and washe
	a. Identification markings to confo specified in the approved const	rm to ASTM standard ruction documents.
	b. Manufacturer's certificate of co	mpliance required.
2.	2. Inspection of high-strength bolting:	
	a. Snug-tight joints.	
	 b. Thru bolted joints-using scannir concrete reinforcing & post-tens 	ng to locate and miss sioning strands.
	 c. Pretensioned and slip-critical joi matchmarking, twist-off bolt or o methods of installation. 	ints using turn-of-nut v lirect tension indicato
	d. Pretensioned and slip-critical jo matchmarking or calibrated wre	ints using turn-of-nut nch methods of instal
3.	3. Material verification of structural steel	and cold-formed stee
	a. For structural steel, identificatio AISC 360.	n markings to conforn
	 b. For other steel, identification ma standards specified in the approx 	arkings to conform to oved construction doc
	c. Manufacturer's certified test rep	orts.
4.	. Material verification of weld filler mater	rials:
	a. Identification markings to confo the approved construction docu	rm to AWS specificati ments.
	b. Manufacturer's certificate of cor	npliance required.
5.	 Inspection of structural steel welding a welding or fastening: 	and cold-formed steel
	a. Complete and partial joint pene	tration groove welds.
	b. Multi-pass fillet welds.	
	c. Single-pass fillet welds greater	than 5/16 inches thick
	d. Plug and slot welds.	
	e. Single-pass fillet welds less tha	n or equal to 5/16 incl
	f. Floor and roof deck attachment	and side lap fasteners
	g. Use of qualified welders for Der	nand Critical Welds.
	 h. Welding Procedures Specificati Critical Welds. 	on (WPS) followed for
	i. Welding techniques for Demand	Critical Welds.
	j. Protected zones.	
6.	 Inspection of steel frame joint details s stiffening, member locations, and appl connection for compliance with approv 	such as bracing and ication of joint details ved construction docu
7.	7. Inspection of installation of open web	steel joists :
	a. End connections - welding or bo	blting
	b. Bridging - horizontal or diagona	I.

1.	Standard bridging.

2.	Bridging that differs from the SJI specifications

IBC Chapter 22.

	1
8.	Verification that approved shop drawings are being used of
	· · · · · · · · · · · · · · · · · · ·

Remark Notes		

STEEL CONSTRUCTION			
	TYPE OF IN	TYPE OF INSPECTION	
SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC	- REMARKS
Material verification of high-strength bolts, nuts, and washers:			
 Identification markings to conform to ASTM standards specified in the approved construction documents. 		Х	
b. Manufacturer's certificate of compliance required.		Х	
Inspection of high-strength bolting:			
a. Snug-tight joints.		Х	
 b. Thru bolted joints-using scanning to locate and miss existing concrete reinforcing & post-tensioning strands. 		х	
 Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation. 		Х	
 Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation. 	х		
Material verification of structural steel and cold-formed steel deck:			
a. For structural steel, identification markings to conform to AISC 360.		х	
 b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents. 		х	
c. Manufacturer's certified test reports.		Х	
Material verification of weld filler materials:			
 a. Identification markings to conform to AWS specification in the approved construction documents. 		х	
b. Manufacturer's certificate of compliance required.		х	
Inspection of structural steel welding and cold-formed steel deck welding or fastening:			
a. Complete and partial joint penetration groove welds.	х		
b. Multi-pass fillet welds.	Х		
c. Single-pass fillet welds greater than 5/16 inches thick.	х		
d. Plug and slot welds.	х		
e. Single-pass fillet welds less than or equal to 5/16 inches thick.		Х	
f. Floor and roof deck attachment and side lap fasteners.		Х	
g. Use of qualified welders for Demand Critical Welds.		Х	
 Welding Procedures Specification (WPS) followed for Demand Critical Welds. 		Х	
i. Welding techniques for Demand Critical Welds.		Х	
j. Protected zones.		Х	Verify that no holes or unapproved weld attachments are made within the protected zone.
Inspection of steel frame joint details such as bracing and stiffening, member locations, and application of joint details at each connection for compliance with approved construction documents.		х	
Inspection of installation of open web steel joists :			
a. End connections - welding or bolting		X	Reference SJI specification
b. Bridging - horizontal or diagonal.			
1. Standard bridging.		Х	Reference SJI specification
 Bridging that differs from the SJI specifications listed in IBC Chapter 22. 		х	
Verification that approved shop drawings are being used on site.		Х	
emark Notes: 1. Reference specification AISC 360 for steel elements in addition to any	specifications as ident	ified by IBC Chapter	22.

TILT-UP CONCRETE CONSTRUCTION				
	TYPE OF IN	TYPE OF INSPECTION		
SPECIAL INSPECTION ITEM	CONTINUOUS	PERIODIC	REMAR	
1. Review plant operations and quality control procedures.		Х		
 Inspect concrete batching operations and verify compliance with approved mix design. 		Х		
 Inspect formwork for shape, location and dimensions of concrete members formed. 		Х		
4. Inspection of steel reinforcement, including size, spacing, quantity, placement and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials.		х		
 Inspect anchors and embeds cast in tilt-up concrete and verify embedment lengths. 		х		
6. Verify use of required design mixture.		Х		
7. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests.	x		Frequency test per specificati	
 Inspection of concrete placement, including conveying and depositing. 	x			
 Inspecting of curing procedures and maintenance of curing temperatures. 		Х		
10. Verification of concrete strength before removal of shores and forms from beams and slabs.		Х		
 Inspect erection of tilt-up concrete members including welded connections, placement of bearing pads, placement of expansion joint materials, and placement of joint sealants. 		Х		
12. Inspection of anchors installed in hardened concrete.		Х	See "Post Anchors"	
13. Verification that approved shop drawings are being used on site.		Х		
14. Inspection of anchor connection between tilt-up elements and foundation system on site.		Х		
15. Inspection of anchor connections between tilt-up elements.		Х		
Remark Notes: 1. Reference ACI-318 Building Code Requirements for Reinforced Cor	ncrete.		1	

	BID SET 08/26/2024 CONSTRUCTION E 07/31/2024 CONSTRUCTION E 04/15/2024 DESIGN DEVELOP 02/27/2024 Construction Doc
	D.G.S. PROJECT No.
VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:	BUILD BIDDLE
0 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	IN
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY TR Checked by JE

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JOIST TOP CHORD PANEL POINT OR REINF

JOIST PER TYPICAL DETAILS







STEEL LINTEL L3 1/2 x 3 1/2 x 5/16 L5 x 3 1/2 x 5/16 (LLV) L6 x 3 1/2 x 3/8 (LLV) 2 - L3 1/2 x 2 1/2 x 5/16 (LLV) 2 - L3 1/2 x 2 1/2 x 3/8 (LLV) W8 x 18 2 - L3 1/2 x 3 1/2 x 5/16 2 - L5 x 3 1/2 x 5/16 (LLV) 2 - L6 x 3 1/2 x 5/16 (LLV) L4 x 3 x 5/16 (LLH) W/ L5 x 3 x 5/16 (LLH) W8 x 15 W/ PL 1/4 x 8 1/2 W8 x 15 W/ PL 1/4 x 8 1/2 W8 x 15 W/ PL 1/4 x 10 1/2 W8 x 15 W/ PL 1/4 x 10 1/2 W8 x 15 W/ PL 1/4 x 10 1/2

CONTINUOUS BOND BEAM	- /
PROVIDE MASONRY TIES AT 16" WHERE INFILLING OF BEAM WEB IS REQUIRED	
3/16 2@8	
BOTTOM FLANGE PLATE	



BID SET 08/26/2024

	DESIGN DEVELOPMENT 01/28/2024
DOCUMENTS REVISED	
DOCUMENTS	
PMENT REVISED	
RECORD	REVISIONS
	REGISTERED PROFESSIONAL JEFFR TOAVID EVANS ENGINEER PEO55776E WSYLN ACCOUNT AND B-26-2024 SIGNATURE
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	D.G.S. PROJECT NO.	
VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1	BUILD BIDDLI	-
F BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	F	-
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED	DRAWN BY TR CHECKED BY	
OF CONSTRUCTION APPROVAL.	JE	

	BID SET 08/26/2024		DESIGN DEVELOPMENT 01/28/2024
	CONSTRUCTION 07/31/2024	DOCUMENTS REVISED	
	CONSTRUCTION 04/15/2024	DOCUMENTS	
	DESIGN DEVELO 02/27/2024	PMENT REVISED	
		RECORD	REVISIONS
	Construction Do	ocument – August :	26, 2024 REGISTERED PROFESSIONAL JEFFRET JAVID EVANS ENGINEER PE055776E W S Y L N AUDIT
			8-26-2024 SIGNATURE DATE
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			ARCHITECTURE + PROJECT MANAGEMENT
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D.G	OMMON DEPARTI S.S. PROJECT NO DGS C- BUILD BIDDL	IWEALTH MENT OF C HARRISBURG, -0961-0 ING 237 E AIR G HORSHAM,	STUDIO LLC ARCHITECTURE + PROJECT MANAGEMENT OF PENNSYLVANIA SENERAL SERVICES PENNSYLVANIA 0044 PHASE 01 7 RENOVATION UARD STATION PA 19044 ION PLAN



	PLAN LEGEND.	
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	k-ft	INDICATES MOMENT CONNECTION
ELD CONDITIONS DO NOT PERMIT	_k	INDICATES TOTAL MOMENT (k-ft) AT CONNECTION
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NAL SERVICES. WALLS WHERE WIND GIRT SPANS	$W_{(\pm FT'-IN'')}$	INDICATES T/ STEEL ELEVATION RELATIVE TO TYPICAL STEEL
ZONTAL WHERE WIND GIRT SPANS	—	INDICATES SPAN DIRECTION OF NEW ROOF DECK
		INDICATES EXISTING WALLS WITH NEW CFMF WIND GIRTS TO SUPPORT EXTERIOR WALL PANELS (SEE NOTES 8 & 9)

SISTER EX. ROOF PURLINS AT NEW RTU LOCATIONS (TYP.) EX. PERIMETER BEAM EX. PERIMETER BEAM EX. PERIMETER BEAM EX. PERIMETER BEAM	
PRE-ENGINEERED METAL BUILDING FRAME	BID_SET
EX. PERIMETER BEAM EX. PERIMETER BEAM EX. PERIMETER BEAM	08/26/2024 01/28/2024 CONSTRUCTION DOCUMENTS 07/31/2024 CONSTRUCTION DOCUMENTS 04/15/2024 DESIGN DEVELOPMENT REVISED 02/27/2024 REC ORD REVISIONS Construction Document – August 26, 2024
	ENGINEER PEO55776E SIGNATURE B-26-2024 SIGNATURE DATE CIMMERMAN STUDIO LLC ARCHITECTURE + PROJECT MANAGEMENT
	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA D.G.S. PROJECT No. DGS C-0961-0044 PHASE 01 BOGS C-0961-0044 PHASE 01 BUILDING 237 RENOVATION BIDDLE AIR GUARD STATION HORSHAM, PA 19044
	IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLYROOF FRAMING PLANCONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.DRAWN BY TRDATE 04/15/2024DRAWING No.CHECKED BY JESCALE AS NOTEDSCALE AS NOTEDSCALE AS NOTEDSCALE AS NOTED

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DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	CHECKED BY JE	S

BID SET 08/26/2024

4 S-2.01 WALL/CEILING REINFORCING @ VAULT Scale: 3/4" = 1'-0"



T/ SLAB EL: SEE PLAN







3 SECTION S-2.02 Scale: 3/4" = 1'-0"



	DESIGN DEVELOPMENT 01/28/2024
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ocument – August	26, 2024 N W E A L PROFESSIONAL JEFER: 7. JAVID EVANS ENGINEER PEO55776E V S Y L V A B-26-2024 SIGNATURE DATE
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KEYED DEMOLITION NOTES GENERAL DEMOLITION NOTES VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION. REMOVE CARPET REMOVE VCT. MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILTING AT ALL TIMES. .4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP. EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. .4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION. .2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED (8 TOTAL). PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO CONTRACTOR IS TO REMOVE OVERHEAD DOOR, .4 CONTRACTOR IS TO REMOVE MOTOR, INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED CONTROLS AND WIRING BACK TO PANELS. REMOVE OVERHEAD DOOR, .4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR. RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE. REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN. REMOVE MTL. SIDING. WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH REMOVE SINGLE MEMBRANE ROOF. REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS. REMOVE MTL. ROOF PANEL. .2 CONTRACTOR IS TO REMOVE AHU. WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE REMOVE MTL. GRAVEL STOP. ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. 14 REMOVE WINDOW. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING 15 REMOVE MASONRY PARTITION. .2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS. WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO .2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT. CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER 18 REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED. FLUSH WITH ADJACENT SIDING. REMOVE DOOR, FRAME, AND HARDWARE SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS. PIPING, AND 20 REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY. REMOVE FLASHING. ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE 22 .3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL DRAWINGS. REQUIRED OSHA 1926.62 'LEAD IN CONSTRUCTION' STANDARDS WHEN DISTURBING OR .1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES. IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, 26 .1 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE...3 INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY PLUMBING DEMOLITION DRAWINGS. CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1 29 .1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. .3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. .1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE. REMOVE OVERHEAD CRANE. REMOVE EXISTING LOCKERS. REMOVE INSULATION, AND MTL. ROOF. REMOVE INSULATION. .2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN IT'S ENTIRETY. .3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT .4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL. .2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL. .2 CONTRACTOR IS TO REMOVE VENTILATION PIPE, SEE PLUMBING DRAWINGS FOR EXTENT. REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. .3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING. (**X2**) (X1)(X3) .3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASOCIATED PIPING, SEE PLUMBING DEMO DRAWINGS FOR EXTENT. REMOVE ROOF HATCH, LADDER AND CURB. 14' - 10" 14' - 10" ENTIRETY. REMOVE GUTTER. 43 REMOVE EXST MASONRY BELOW WINDOW. 44 MASONRY OPENING TO RECEIVE DOOR. 45 MASONRY OPENING TO RECEIVE WINDOW. 46 REMOVE MASONRY SILL. PLUMBING DEMOLITION DRAWINGS.

PERIMETER. NOTES: SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION -(X10) (XB)┢┍╪═══╧═══╪┱┼╪═══╧═══╪┱┪╎ ᠓ᡲ᠌᠌᠘_____ᡌᡛ᠘_____ A-1.3 (\mathbf{XC}) EXST GARAGE 908 \$F (XD)8 (8)(29) (XE)



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VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED

WITHOUT PROFESSIONAL & BUREAU

OF CONSTRUCTION APPROVAL.

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	DOOR TO BE DEMOLISHED	
	CONCRETE TO BE REMOVED BY .1	
	DESIGN DEVELOPMENT 01/26/2024	
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08/26/2024 SCALE	A-1.0	
As indicated		

DEMOLITION LEGEND



	GENERAL DEMOLITION NOTES		KEYED DEMOLITION NOTES
A.	VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE		
	REMOVALS WITH SCOPE OF NEW CONSTRUCTION.	1	REMOVE CARPET.
_		2	REMOVE VCT.
в. С	EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN DIACE UNLESS OTHERWISE NOTED	3	.4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.
J.	PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR	4	4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.
	RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.	5	.2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED (8 TOTAL).
) .	PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED	6	CONTRACTOR IS TO REMOVE OVERHEAD DOOR, .4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS.
_	BY CLIENT AGENCY.	7	REMOVE OVERHEAD DOOR, .4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS, PREPARE OPENING FOR NEW OVERHEAD DOOR.
=.	RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.	8	REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION HORIZONTAL GIRTS TO REMAIN
:	WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE	9	REMOVE MTL. SIDING.
•	EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH	10	REMOVE SINGLE MEMBRANE ROOF.
	REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.	11	REMOVE MTL. ROOF PANEL.
		12	.2 CONTRACTOR IS TO REMOVE AHU.
	ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING	13	REMOVE MTL. GRAVEL STOP.
	DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING	14	REMOVE WINDOW.
	CONSTRUCTION TO REMAIN.	15	REMOVE MASONRY PARTITION.
		16	.2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS.
•	WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO	17	.2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT.
	SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.	18	REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING.
	SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS, PIPING, AND	19	REMOVE DOOR, FRAME, AND HARDWARE.
	FIXTURES NOT SHOWN.	20	REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY.
		21	REMOVE FLASHING.
	ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED ONLY 1026 62 IL FAD IN CONSTRUCTION! STANDARDS WILLEN DISTURDING OR	22	.3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS.
	IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS	23	.1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES.
	INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY	26	.1 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEI PLUMBING DEMOLITION DRAWINGS.
	FOR ADDITIONAL INFORMATION.	29	.1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.
		30	REMOVE OVERHEAD CRANE.
		31	REMOVE EXISTING LOCKERS.
		32	REMOVE INSULATION, AND MTL. ROOF.
		34	REMOVE INSULATION.
		35	.2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN IT'S ENTIRETY3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT .4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
		36	.2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL.
		37	.2 CONTRACTOR IS TO REMOVE VENTILATION PIPE, SEE PLUMBING DRAWINGS FOR EXTENT.
		38	REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING.
		39	.3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASOCIATED PIPING, SEE PLUMBING DEMO DRAWINGS FOR EXTENT.
	$\bigcirc \bigcirc $	40	REMOVE ROOF HATCH, LADDER AND CURB.
	(X4) (X3) (X2) (X1)	41	.2 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY.

DODS, AND PING. SEE PLUMBING Y. 4 CONTRACTOR IS FOR EXTENT. CONTRACTOR IS TO MBING DEMO JCTWORK IN ITS 43 REMOVE EXST MASONRY BELOW WINDOW. 44 MASONRY OPENING TO RECEIVE DOOR. 45 MASONRY OPENING TO RECEIVE WINDOW. 46 REMOVE MASONRY SILL. 47 .3 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS. 48 .1CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. .3 CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. .1 CONTRACTOR TO INSTALL NEW SLAB AT TRENCH. 49 REMOVE MASONRY LINTEL TO MATCH WINDOW B HEIGHT. SEE STRUCTURAL DRAWINGS.

NOTES: SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION

	DEMOLITION LEGEND
	REMOVED BY .1
	BID SET 08/26/2024 CONSTRUCTION DOCUMENTS
	07/31/2024 REVISED CONSTRUCTION DOCUMENTS
	04/15/2024 DESIGN DEVELOPMENT-REVISED 02/27/2024
	RECORD REVISIONS
	Construction Document- August 26, 2024
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	SIGNATURE DATE
	ZIMMERMAN STUDIO LLC ARCHITECTURE + PROJECT MANAGEMENT
ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA
CONTRACTOR	DGS C-0961-0044 PHASE 01
VERIFY SCALE	BUILDING 237 RENOVATION
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:	BIDDLE AIR GUARD STATION HORSHAM, PA 19044
0 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	CEILING DEMOLITION PLAN
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY DATE DRAWING No. <i>IB</i> 08/26/2024 CHECKED BY SCALE <i>AK</i> As indicated

A.	VERIFY EXISTING CONDITIONS PRIOR TO STAF REMOVALS WITH SCOPE OF NEW CONSTRUCT
В.	MAINTAIN THE STRUCTURAL INTEGRITY OF TH
C.	EXISTING CONSTRUCTION AND FINISHES TO R PROTECT EXISTING MATERIALS FROM DAMAG RESTORE DAMAGED ELEMENTS TO PRE-CONS
D.	PROTECT EXISTING EQUIPMENT DURING CONSINCLUDE PLASTIC SHEETING, TEMPORARY PAU BY CLIENT AGENCY.
E.	RECYCLE MATERIALS REMOVED DURING DEM
F.	WHERE GENERAL CONSTRUCTION IS INDICATE EQUIPMENT BACK TO NEAREST TRUNK DUCT, REQUIREMENTS OF APPLICABLE CODES. COC
G.	WHERE MATERIAL IS TO BE REMOVED FROM E ANCHORING DEVICES IN THEIR ENTIRETY AND DO NOT CUT ANCHORING DEVICES AND LEAVE CONSTRUCTION TO REMAIN.
H.	WHEN REMOVING EXISTING FINISH FLOOR ASS CONCRETE FLOOR SLAB. REMOVE LOOSE MA SUBSTRATE SUITABLE FOR INSTALLATION OF
I.	SEE MPE DOCUMENTS FOR REMOVAL OF EXIS FIXTURES NOT SHOWN.
J.	ALL WORK IS TO BE PERFORMED WITH THE AS LEAD CONTAINING. EACH PRIME CONTRACTOR REQUIRED OSHA 1926.62 'LEAD IN CONSTRUCT IMPACTING THESE PAINTED SURFACES DURIN

FOR ADDITIONAL INFORMATION.

CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1

RT OF REMOVAL ACTIVITIES. COORDINATE TION.

THE BUILTING AT ALL TIMES.

REMAIN IN PLACE UNLESS OTHERWISE NOTED. GE DURING CONSTRUCTION AND REPLACE OR STRUCTION CONDITION.

ISTRUCTION ACTIVITIES. PROTECTION TO RTITIONS, OR OTHER MEASURES DETERMINED

MOLITION TO THE GREATEST EXTENT POSSIBLE.

TED FOR DEMOLITION, REMOVE ASSOCIATED MPE , MAIN PIPE, OR JUNCTION BOX. COMPLY WITH ORDINATE WITH MPE DOCUMENTS.

EXISTING CONSTRUCTION TO REMAIN, REMOVE D INFILL CONSTRUCTION TO MATCH EXISTING. E PORTIONS EMBEDDED IN EXISTING

SEMBLY, REMOVE ALL COMPONENTS TO ATERIALS, INCLUDING ADHESIVE, AND RENDER FINISH FLOOR SPECIFIED. STING EQUIPMENT, VENTS, STACKS. PIPING, AND

SSUMPTION THAT ALL PAINTED SURFACES ARE OR IS RESPONSIBLE FOR FOLLOWING ALL CTION' STANDARDS WHEN DISTURBING OR NG THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY

(X1)

REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN. REMOVE MTL. SIDING. REMOVE SINGLE MEMBRANE ROOF. REMOVE MTL. ROOF PANEL. .2 CONTRACTOR IS TO REMOVE AHU. 13 REMOVE MTL. GRAVEL STOP. 14 REMOVE WINDOW. 5 REMOVE MASONRY PARTITION 16 .2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS. 17 .2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT. 18 REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING. 19 REMOVE DOOR, FRAME, AND HARDWARE. REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY. REMOVE FLASHING. .3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS. .1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES. .1 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. .3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS. .1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. .3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. .1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE. REMOVE OVERHEAD CRANE. REMOVE EXISTING LOCKERS. REMOVE INSULATION, AND MTL. ROOF. 34 REMOVE INSULATION. 35 .2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN IT'S ENTIRETY. .3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT .4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL. 6 .2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL. 2 CONTRACTOR IS TO REMOVE VENTILATION PIPE, SEE PLUMBING DRAWINGS FOR EXTENT. 38 REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. .3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING. 39 .3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASOCIATED PIPING, SEE PLUMBING DEMO DRAWINGS FOR EXTENT. 40 REMOVE ROOF HATCH, LADDER AND CURB. 41 .2 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY. 42 REMOVE GUTTER. 43 REMOVE EXST MASONRY BELOW WINDOW. 44 MASONRY OPENING TO RECEIVE DOOR. 45 MASONRY OPENING TO RECEIVE WINDOW. 46 REMOVE MASONRY SILL. 47 .3 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS. 48 .1CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. .3 CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. .1 CONTRACTOR TO INSTALL NEW SLAB AT TRENCH. 49 REMOVE MASONRY LINTEL TO MATCH WINDOW B HEIGHT. SEE STRUCTURAL DRAWINGS. 50 REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2" BELOW GRADE. TYP AROUND BUILDING PERIMETER. .4 CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

KEYED DEMOLITION NOTES

.4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT

.4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL.

.2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND

REMOVE OVERHEAD DOOR, .4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK

CONTRACTOR IS TO REMOVE OVERHEAD DOOR, .4 CONTRACTOR IS TO REMOVE MOTOR,

REMOVE CARPET REMOVE VCT.

CAPPED (8 TOTAL).

FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR.

CONTROLS AND WIRING BACK TO PANELS.

NOTES: SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION

-(X10) (XB)A-1.3 _____ (\mathbf{XC}) (XD)-(**XE**)

Construction [ZIN COMMON DEPARTI ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY .2, .3, OR .4 CONTRACTOR .G.S. PROJECT No. DGS C-BUILD **VERIFY SCALE** BIDDL BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: ROO IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY CONTRACTOR SHALL FIELD VERIFY DRAWN BY ALL DIMENSIONS. IB VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED

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DEMOLITION LEGEND

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GENERAL DEMOLITION NOTES

A.	VERIFY EXISTING CONDITIONS PRIOR TO START OF REMOVAL ACTIVITIES. COORDINATE REMOVALS WITH SCOPE OF NEW CONSTRUCTION.
В.	MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILTING AT ALL TIMES.
C.	EXISTING CONSTRUCTION AND FINISHES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. PROTECT EXISTING MATERIALS FROM DAMAGE DURING CONSTRUCTION AND REPLACE OR RESTORE DAMAGED ELEMENTS TO PRE-CONSTRUCTION CONDITION.
D.	PROTECT EXISTING EQUIPMENT DURING CONSTRUCTION ACTIVITIES. PROTECTION TO INCLUDE PLASTIC SHEETING, TEMPORARY PARTITIONS, OR OTHER MEASURES DETERMINED BY CLIENT AGENCY.
E.	RECYCLE MATERIALS REMOVED DURING DEMOLITION TO THE GREATEST EXTENT POSSIBLE.
F.	WHERE GENERAL CONSTRUCTION IS INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE EQUIPMENT BACK TO NEAREST TRUNK DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE WITH MPE DOCUMENTS.
G.	WHERE MATERIAL IS TO BE REMOVED FROM EXISTING CONSTRUCTION TO REMAIN, REMOVE ANCHORING DEVICES IN THEIR ENTIRETY AND INFILL CONSTRUCTION TO MATCH EXISTING. DO NOT CUT ANCHORING DEVICES AND LEAVE PORTIONS EMBEDDED IN EXISTING CONSTRUCTION TO REMAIN.
H.	WHEN REMOVING EXISTING FINISH FLOOR ASSEMBLY, REMOVE ALL COMPONENTS TO CONCRETE FLOOR SLAB. REMOVE LOOSE MATERIALS, INCLUDING ADHESIVE, AND RENDER SUBSTRATE SUITABLE FOR INSTALLATION OF FINISH FLOOR SPECIFIED.
I.	SEE MPE DOCUMENTS FOR REMOVAL OF EXISTING EQUIPMENT, VENTS, STACKS. PIPING, AND FIXTURES NOT SHOWN.
J.	ALL WORK IS TO BE PERFORMED WITH THE ASSUMPTION THAT ALL PAINTED SURFACES ARE LEAD CONTAINING. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL REQUIRED OSHA 1926.62 'LEAD IN CONSTRUCTION' STANDARDS WHEN DISTURBING OR IMPACTING THESE PAINTED SURFACES DURING THE COURSE OF THE RENOVATIONS, INCLUDING BUT NOT LIMITED TO ACTIVITIES SUCH AS: CUTTING AND PATCHING, CORE DRILLING, PENETRATION, ANCHORING, FASTENING, ETC. THE AREA(S) SHALL BE VISUALLY

FOR ADDITIONAL INFORMATION.

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ART OF REMOVAL ACTIVITIES. COORDINATE CTION.

ENING, ETC. THE AREA(S) SHALL BE VISUALLY CLEAN UPON COMPLETION OF ANY OF THESE ACTIVITIES. REFER TO SPECIFICATION 010400-1

REMOVE CARPET REMOVE VCT. .4 CONTRACTOR IS TO REMOVE SUSPENDED CEILING ASSEMBLY, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP. .4 CONTRACTOR IS TO REMOVE HIGH BAY PENDANT LIGHT FIXTURES AND WIRING BACK TO PANEL. .2 CONTRACTOR IS TO REMOVE SUSPENDED UNIT HEATER AND PIPING BACK TO THE SOURCE AND CAPPED (8 TOTAL). CONTRACTOR IS TO REMOVE OVERHEAD DOOR, .4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. REMOVE OVERHEAD DOOR, .4 CONTRACTOR IS TO REMOVE MOTOR, CONTROLS AND WIRING BACK TO PANELS. PREPARE OPENING FOR NEW OVERHEAD DOOR. REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN. REMOVE MTL. SIDING. REMOVE SINGLE MEMBRANE ROOF. REMOVE MTL. ROOF PANEL. .2 CONTRACTOR IS TO REMOVE AHU. 3 REMOVE MTL. GRAVEL STOP. 14 REMOVE WINDOW. REMOVE MASONRY PARTITION. .2 CONTRACTOR IS TO REMOVE EXHAUST DUCTS. .2 CONTRACTOR IS TO REMOVE COMPRESSED AIR DEVICES, FEEDS AND SOURCE EQUIPMENT. REMOVE PLASTER SOFFIT FRAMING. CUT STRUCTURE TO ALLOW FOR NEW EXTERIOR SIDING FLUSH WITH ADJACENT SIDING. REMOVE DOOR, FRAME, AND HARDWARE. REMOVE DOOR AND ALUMINUM FRAME ASSEMBLY. REMOVE FLASHING. 2 .3 CONTRACTOR IS TO REMOVE PLUMBING FIXTURES AND PIPING AS SHOWN ON PLUMBING DRAWINGS. 3 .1 CONTRACTOR IS TO REMOVE TOILET PARTITIONS AND ACCESSORIES. .1 CONTRACTOR IS TO SAWCUT AND REMOVE CONCRETE AND INSTALL NEW SLAB ON GRADE. .3 CONTRACTOR IS TO TRENCH AND REMOVE UNDERGROUND PIPING, EQUIPMENT AND BACKFILL. SEE PLUMBING DEMOLITION DRAWINGS. 29 .1 CONTRACTOR IS TO REMOVE RAINWATER CONDUCTOR. .3 CONTRACTOR IS TO REMOVE CAST IRON BOOT AND LATERAL UNDERGROUND PIPING UP TO NEW BOOT LOCATION AND BACKFILL. .1 CONTRACTOR IS TO REMOVE CONCRETE AND INSTALL NEW CONCRETE.) REMOVE OVERHEAD CRANE. REMOVE EXISTING LOCKERS. 2 REMOVE INSULATION, AND MTL. ROOF. 4 REMOVE INSULATION. 2 CONTRACTOR IS TO REMOVE ALL ROOF EQUIPMENT, FLUE PIPES, INTAKE HOODS, AND DUCTWORK IN IT'S ENTIRETY. .3 CONTRACTOR TO REMOVE HYDRONIC, GAS PIPING. SEE PLUMBING FOR EXTENT .4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL. 3 .2 CONTRACTOR IS TO REMOVE EXHAUST FAN AND DUCTWORK IN ITS ENTIRETY. 4 CONTRACTOR IS TO REMOVE WIRING BACK TO PANEL. .2 CONTRACTOR IS TO REMOVE VENTILATION PIPE, SEE PLUMBING DRAWINGS FOR EXTENT. REMOVE CANOPY BACK TO MASONRY WALL. SEE STRUCTURAL DRAWINGS. .3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND PIPING. 9 .3 CONTRACTOR IS TO REMOVE ROOF DRAIN AND ASOCIATED PIPING, SEE PLUMBING DEMO DRAWINGS FOR EXTENT. 0 REMOVE ROOF HATCH, LADDER AND CURB. 1 .2 CONTRACTOR IS TO REMOVE VEHICLE EXHAUST SYSTEM DISCHARGE AND DUCTWORK IN ITS ENTIRETY. 12 REMOVE GUTTER. 13 REMOVE EXST MASONRY BELOW WINDOW. 44 MASONRY OPENING TO RECEIVE DOOR. 45 MASONRY OPENING TO RECEIVE WINDOW. 46 REMOVE MASONRY SILL. 47 .3 CONTRACTOR IS TO REMOVE ACID NEUTRALIZATION TANK AND ASOCIATED PIPING. SEE PLUMBING DEMOLITION DRAWINGS. .1CONTRACTOR IS TO REMOVE CONCRETE 6" OUTBOARD OF RECESSED HYDRAULIC EQUIPMENT AND INSTALL NEW SLAB. .3 CONTRACTOR IS TO TRENCH AND REMOVE EQUIPMENT AND BACKFILL. .1 CONTRACTOR TO INSTALL NEW SLAB AT TRENCH. 49 REMOVE MASONRY LINTEL TO MATCH WINDOW B HEIGHT. SEE STRUCTURAL DRAWINGS. REMOVE EXISTING CONCRETE BOLLARDS, COLLAR TO 2" BELOW GRADE. TYP AROUND BUILDING PERIMETER. .4 CONTRACTOR IS TO REMOVE SOLID CEILING, INCLUDING PANELS, GRID, LIGHT FIXTURES, AND CEILING-MOUNTED DEVICES, TYP.

KEYED DEMOLITION NOTES

NOTES: SEE MECHANICAL, FP, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION

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ING DEMOLITION TO THE GREATEST EXTENT POSSIBLE. INDICATED FOR DEMOLITION, REMOVE ASSOCIATED MPE K DUCT, MAIN PIPE, OR JUNCTION BOX. COMPLY WITH	 8 REMOVE INTERIOR AND EXTERIOR MTL. SIDING AND INSULATION. HORIZONTAL GIRTS TO REMAIN. 9 REMOVE MTL. SIDING. 10 REMOVE SINGLE MEMBRANE ROOF. 	
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DEMOLITION LEGEND

IF BAR IS NOT ONE (1) INCH LONG

ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED

WITHOUT PROFESSIONAL & BUREAU

OF CONSTRUCTION APPROVAL.

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ING 237 RENOVATION E AIR GUARD STATION horsham, pa 19044
FLOOR PLAN
DATE 08/26/2024 SCALE 1/8" = 1'-0" DRAWING No. A-2.0

4' - 0" 6' - 7"	5' - 5"			
4'-0" 6'-7" 1'-8" 2'-10 1'-8" 2'-10 1-8" 2'-10 TA-05 TA-05 TA-04 F CONCRETE 5'-0" TA-01 CLEAR WIDTH TA-01 TA-01	5' - 5" 1' - 8" VESTIBULE 1 TA-05 1 TYF 1 TYF 1 A-7.3 4 2 A-5.0 5 MEN'S 117 195 SF 1 '- 8" 1' - 7" 1' - 8" 1' - 7" 1' - 8" 1' - 8"		BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELO 02/27/2024 Construction Develo)F
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	1 A-7.3 VESTIBULE 0 118A 33 SF	ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY .2, .3, OR .4 CONTRACTOR	COMMON DEPARTN D.G.S. PROJECT No. DGS C-	\ /
	- <u>05</u>)" 1' - 8" 5' - 5"	VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:	BUILD BIDDLE	-
Here Here <th>/</th> <th>0 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY</th> <th>ENLA</th> <th>F</th>	/	0 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	ENLA	F
		CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY <i>IB</i> CHECKED BY <i>AK</i>	

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GUTTER, .1.			ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY .2, .3, OR .4 CONTRACTOR	BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELO 02/27/2024 Construction D Construction D CONSTRUCTION DEPARTN D.G.S. PROJECT No. DGS C—
			VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0 1 If BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAL OF CONSTRUCTION APPROVAL.	BUILD BIDDLE ROOF DRAWN BY <i>IB</i> CHECKED BY <i>AK</i>

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	FLOOR FINISH SCHEDULE A - - SEALED CONCRETE B - - VCT C - - CARPET TILE - CPT-1 D - - CARPET TILE - CPT-2 E EPOXY FLOORING - DECOR WALL BASE FINISH SCHEDULE - - a - E POXY COVE - b - RUBBER COVE - - c PORCELAIN TILE COVE WALL FINISH SCHEDULE - c PORCELAIN TILE COVE WALL FINISH SCHEDULE - c WALL FINISH SCHEDULE - - VALL FINISH SCHEDULE - - - 2 PAINT - PT-1 - - - 3 PAINT - PT-2 3 PAINT - PT-3 - 6 PAINT - PT-5 6 PAINT - PT-7 8 FIBERGLAS	RATIVE QUARTZ RATIVE QUARTZ	
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	BASE BID 2 WORK WITHIN THIS AREA TO INCLUDE THE I CONCRETE LEVELING SLAB INTERIOR PAINTING GWB PARTITIONS DOCK LIFT WIRE STORAGE ROOMS	FOLLOWING: 	RID_SET DESIGN_DEVELOPMENT 01/26/2024 01/26/2024 CONSTRUCTION_DOCUMENTS 01/26/2024 CONSTRUCTION_DOCUMENTS 01/26/2024 CONSTRUCTION_DOCUMENTS 01/26/2024 DESIGN_DEVELOPMENT-REVISED 02/27/2024 RECORD_REVISIONS Construction_Document- August 26, 2024 Construction_Document- August 26, 2024 DESIGN_DEVELOPMENT-REVISIONS Construction_Document- August 26, 2024 DESIGNATURE DATE DATE ZIMMERMAN STUDIO_LUC ACCHITECTURE + PROJECT MANAGEMENT DATE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA DGS_C-0961-0044 PHASE_01 BUILDING_237 RENOVATION BIDDLE_AIR_GUARD_STATION HORSHAM, PA 19044 FINISH_PLAN
		ALL WORK ON THIS DRAWING IS TO BE INCLUDED BY THE .1 CONTRACTOR, EXCEPT WORK NOTED TO BE BY .2, .3, OR .4 CONTRACTOR	STUDIO LIC ARCHITECTURE + PROJECT URE + PROJECT MANAGEMENT COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA D.G.S. PROJECT NO. DGS C-0961-0044 PHASE 01 BUILDING 237 RENOVATION BUILDING 237 RENOVATION BIDDLE AIR GUARD STATION HORSHAM, PA 19044 DRAWING NO. DRAWN BY DATE 08/26/2024 CHECKED BY AK SCALE 1/8" = 1'-0"

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IWEALTH C MENT OF GE harrisburg, pe	OF PENNSYLVANIA ENERAL SERVICES ENNSYLVANIA
-0961-0	044 PHASE 01
ING 237	RENOVATION
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-0961-0	044 PHASE 01
ING 237 E AIR GU horsham,	RENOVATION JARD STATION PA 19044
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DATE 1 08/26/2024 SCALE 1/4" = 1'-0"	DRAWING No. A-5.1

DESIGN DEVELOPMENT 01/26/2024

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DATE 08/26/2024	DRAWING No.
SCALE As indicated	A-7.3

LEGEND	

	EXTENT OF DEMOLITION
	POINT OF CONNECTION BETWEEN NEW WORK AND EXISTING WORK
	EXISTING WORK TO REMAIN
	NEW WORK
	EXISTING WORK TO BE DEMOLISHED
$\langle - \rangle$	DEMOLITION NOTE
-	NEW WORK NOTE
	SUPPLY AIR DUCT UP (SECTION)
X	SUPPLY AIR DUCT DOWN
	RETURN/EXHAUST AIR DUCT UP (SECTION)
	RETURN/EXHAUST AIR DUCT DOWN
\boxtimes	SUPPLY CEILING DIFFUSER/GRILLE (SIZE INDICATED ON SCHEDULE/DRAWING)
	RETURN/EXHAUST CEILING DIFFUSER/GRILLE (SIZE INDICATED ON SCHEDULE/DRAWING)

\sim	FLEX DUCT
	DUCT BREAK/CONTINUATION
I	UNION
	REDUCER OR INCREASER
-	GATE VALVE
—-ю—	BALL VALVE
Ţ	CAPPED PIPE
ə	PIPE/DUCT DOWN
——	PIPE/DUCT DOWN (45°)
\longrightarrow	BREAK IN PIPE/DUCT
	PIPE/DUCT TAKE-OFF (BOTTOM)
•	PIPE OR ROUND DUCT (UP/SECTION)
L	VOLUME DAMPER
\bigcirc	THERMOSTAT
	GHW RE HEAT COIL
	DUCT SILENCER
-~~+	MOTORIZED DAMPER

ABBREVIATIONS

						G	ENERAL MECHANICAL I
A.F.F.	ABOVE FINISHED FLOOR	GHW	GLYCOL HOT WATER	OA	OUTSIDE AIR	<u>U</u>	ENERAL MECHANICAL
AHU	AIR HANDLING UNIT	GHWR	GLYCOL HOT WATER RETURN	ODU	MS OUTDOOR UNIT	1.	CONTRACTOR SHALL COORDINATE WITH
Ç	CENTER LINE ELEVATION OF PIPE	GHWS	GLYCOL HOT WATER SUPPLY	RA	RETURN AIR	2	CONTRACTOR IS RESPONSIBLE FOR REA
-	ABOVE FINISHED FLOOR	ннพ	HEATING HOT WATER	RAD		۷.	EQUIPMENT, AND CONSTRUCTION DEBRIS
CFM	CUBIC FEET PER MINUTE	HHWR	HEATING HOT WATER RETURN	RAR	RETURN AIR REGISTER	7	DEFODE LEAVING THE SITE AT ANYTIME
CHW	CHILLED WATER	HHWS	HEATING HOT WATER SUPPLY	RG	RETURN AIR GRILLE	Э.	CONSTRUCTION AREA IS SECURE, ALL I
CHWR	CHILLED WATER RETURN	HPC	HIGH PRESSURE STEAM CONDENSATE	RHC	REHEAT COIL		THE CONSTRUCTION AREA SHALL BE S
CHWS	CHILLED WATER SUPPLY	HPS	HIGH PRESSURE STEAM	RHW	REHEAT HOT WATER	4.	CONTRACTOR SHALL COORDINATE WITH
COND	CONDENSATE	ווחו	MS INDOOR LINIT	RHWR	REHEAT HOT WATER RETURN		APPROVED LOCATIONS FOR NEW EQUIPI PRIOR TO SUBMITTING THEIR BID.
00112	CONVECTOR			RHWS	REHEAT HOT WATER SUPPLY	5.	CONTRACTOR SHALL FIELD VERIFY ALL
CUNV.	CONVECTOR			RTU	ROOFTOP UNIT		LOCATIONS PRIOR TO THE START OF C
CV	CONTROL VALVE	LPC	LOW PRESSURE STEAM CONDENSATE	S	ROOM TEMPERATURE SENSOR	6.	ALL DRAWINGS ARE DIAGRAMMATIC AND
DN.	DOWN	LPS	LOW PRESSURE STEAM	SA	SUPPLY AIR		EQUIPMENT CONNECTION SIZES, AND EX
EA	EXHAUST AIR	MFG	MANUFACTURER	SAD		7.	CONTRACTOR IS RESPONSIBLE FOR COO
EL	ELEVATION	MAX.	MAXIMUM	0/10 SE			NOT BEGIN WORK UNTIL SCHEDULE IS A
(E)	EXISTING	M.C.	MECHANICAL CONTRACTOR	Sr		-	ALLOW 2 WEEKS FOR SHUTDOWN COOR
E.C.	ELECTRICAL CONTRACTOR	MIN.	MINIMUM	SK		8.	SPECIFICATIONS FOR PROJECT INFORMA
EF	EXHAUST FAN	MOD	MOTOR OPERATED DAMPER	SG	SUPPLY AIR GRILLE	9.	CONTRACTOR SHALL PROVIDE ALL PIPIN
ED	EXHAUST AIR DIFFUSER	MPC	MEDIUM PRESSURE STEAM CONDENSATE	SDA	SOUND ATTENUATOR		STRUCTURE. WHERE EXISTING UTILITIES CONTRACTOR SHALL OFFSET NEW PIPIN
EG	EXHAUST AIR GRILLE	MPS	MEDIUM PRESSURE STEAM	Т	THERMOSTAT		PIPING IMMEDIATELY BELOW SUCH EXIS
ERV	ENERGY RECOVERY VENTILATOR	MS	MINI-SPLIT SYSTEM	TG	TRANSFER GRILLE	10.	CONTRACTOR SHALL PROVIDE ALL VALV ACCOMMODATE FOR THE INSULATION TH
FA	FRESH AIR	MSSG	MAXIMUM SECURITY SUPPLY GRILLE	TS	TEMPERATURE SENSOR	11.	CONTRACTOR SHALL PROVIDE ALL DAM
FCU	FAN COIL UNIT	MSRG	MAXIMUM SECURITY RETURN GRILLE	TYP.	TYPICAL		WITH STANDOFFS TO ACCOMMODATE FO
FOB	FLAT ON BOTTOM	NG	NATURAL GAS	UH	UNIT HEATER	12.	CONTRACTOR IS RESPONSIBLE FOR ARE
FOT	FLAT ON TOP	NC		VAV	VARIABLE AIR VOLUME		ARCHITECTURAL/AESTHETIC ITEMS AS F
FTR	FIN TUBE RADIATOR	N O		VLV	VALVE		REPLACE IN KIND AT THEIR OWN COST
		N.U.			·····		

PROJECT NOTES:

H OWNER REPRESENTATIVE PRIOR TO DOING NS WITHIN THE BUILDING. EMOVING ALL DEMOLISHED MATERIALS, RIS FROM SITE COMPLETELY. NO DEMOLISHED

ICTION DEBRIS SHALL BE STORED ON SITE. E THE CONTRACTOR SHALL ENSURE

MATERIALS AND EQUIPMENT ARE STORED ALL CONSTRUCTION DEBRIS IS CLEANED UP. SWEPT DAILY.

H OWNER REPRESENTATIVE TO DETERMINE PMENT AND MATERIAL LAY-DOWN AREAS

DIMENSIONS, SIZES, CLEARANCES AND CONSTRUCTION.

ND ARE FOR CONTRACTOR'S REFERENCE PONSIBILITY TO VERIFY ALL DIMENSIONS, EXISTING FIELD CONDITIONS. ORDINATING AND SCHEDULING ALL

WORK WITH OWNER. CONTRACTOR SHALL APPROVED BY OWNER. CONTRACTOR TO RDINATION.

, SCHEDULES, DETAILS, DIAGRAMS AND ATION AND REQUIREMENTS.

PING TIGHT TO UNDERSIDE OF BUILDING S PREVENT SUCH INSTALLATION, THE NG AROUND EXISTING UTILITY AND PROVIDE STING UTILITY.

LVES WITH STEM EXTENSIONS TO THICKNESS SPECIFIED.

AMPER HAND QUADRANTS AND OPERATORS FOR THE INSULATION THICKNESS SPECIFIED. REA PROTECTION FOR ALL FURNITURE,

ASS, AND ALL OTHER REQUIRED TO FULFILL THE SCOPE OF WORK E OCCURS, THE CONTRACTOR SHALL

GENERAL MECHANICAL DEMOLITION NOTES:

- 1. CONTRACTOR SHALL ASSESS EXISTING EQUIPMENT, DUCTING LAYOUT, PIPING LAYOUT, CONTROLS, CONDUITS, SUPPORTS, AND ALL THE WORK INVOLVED TO DEMOLISH EXISTING EQUIPMENT, DUCTING, AND PIPING TO THE EXTENT AS REQUIRED AND SHOWN ON PLANS.
- 2. EXISTING DUCTWORK AND PIPING SHOWN TO BE DEMOLISHED SHALL BE DEMOLISHED AS SHOWN ON THE FLOOR PLANS, OR AS REQUIRED TO DEMOLISH EXISTING EQUIPMENT AND/OR INSTALL NEW EQUIPMENT, DUCTWORK, AND PIPING. ALL DEMOLISHED BRANCH PIPING SHALL BE DEMOLISHED BACK TO THE EXISTING TO REMAIN SYSTEM TO PREVENT ANY DEAD LEGS IN THE SYSTEM.
- 3. ALL EQUIPMENT AND DEVICES CALLED TO BE DEMOLISHED SHALL BE COORDINATED WITH OWNER TO CONFIRM IF THEY WILL REQUIRE THESE ITEMS TO BE SALVAGED, IF THE CONTR. IS NOT DIRECTED TO SALVAGE SAID ITEMS THEY SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OFF-SITE.
- 4. THE CONTRACTOR SHALL PERFORM PENETRATING SCANS OF ALL CONCRETE WALL/FLOOR/CEILING PENETRATIONS AND REPORT THE FINDINGS TO THE OWNER AND DESIGN TEAM PRIOR TO ANY DEMOLITION COMMENCING.

GENERAL MECHANICAL NEW

- 1. THE CONTRACTOR SHALL PROVIDE IDENTIFICATION PIPING, DUCT AND CONTROL DEVICES TO MATCH SIZE. WHERE THERE ARE NO EXISTING TYPES T IDENTIFICATION PER SPEC'S.
- 2. ALL EXISTING WALL/FLOOR/ROOF PENETRATIONS N OR PIPING PASSED THROUGH AND NEW DUCTWORK INSTALLED IN THE SAME LOCATION, SHALL BE INF MATCHING THE EXISTING AND IN A MANNER AS T NEW FIRE/SMOKE RATINGS AND WARRANTIES.
- 3. ALL SERVICES WHICH WERE DEMOLISHED AND CAU THE SAME MATERIALS AND INSTALLATION METHOD ALL INSULATION SHALL BE MADE WHOLE WITH MA EXISTING, IN A NEAT AND ORDERLY FASHION WIT

02/27/2024
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D.G.S. PROJECT No. DGS C-C
BUILDIN
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ANICAL NEW WORK NOT PROVIDE IDENTIFICATION FOR ALL NEW E ROL DEVICES TO MATCH EXISTING TYPE, L	ES: QUIPMENT OCATION, AND
NO EXISTING TIPES TO MATCH, PROVID S'S. UGH AND NEW DUCTWORK OR PIPING IS N LOCATION, SHALL BE INFILLED BY CONST AND IN A MANNER AS TO MAINTAIN AN	ED DUCTWORK NOT TO BE RUCTION
S AND WARRANTIES. RE DEMOLISHED AND CAPPED, SHALL BE ID INSTALLATION METHODS OF EACH SYS BE MADE WHOLE WITH MATERIALS MATCHIN O ORDERLY FASHION WITH ALL JOINTS SE	CAPPED USING TEM INSTALLED, NG THE AL FD
BID SET 08/26/2024	DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION DOCUMENTS 07/31/2024 REVISED CONSTRUCTION DOCUMENTS 04/15/2024	
DESIGN DEVELOPMENT-REVISED 02/27/2024 RECORD R	EVISIONS 26 2024
Construction Document – August .	PROFESSIONAL
	JASON BRIAN LOCHENDORP ENGINEER PE-082410
	V SYLV Addr
ZIMMERMA	
DEPARTMENT OF GE HARRISBURG, PE	ENERAL SERVICES
D.G.S. PROJECT NO. DGS C-0961-00 BUILDING 237	044 PHASE 01 Renovation
BIDDLE AIR GU	ARD STATION
LEGENDS AND	ABBREVIATIONS
DRAWN BY J. LUTCHENDORF 08/26/2024 CHECKED BY J. LUTCHENDORE AS NOTED	H - 000
J. LUIUTLINUUKI AS NUILU	

- 1DEMOLISH EXISITNG EF AND ALL ASSOCIATED DUCTWORK, ROOF CURBS,
ELECTRICAL AND ALL ANCILLARY DEVICES.
- 2 DEMOLISH EXISITNG RTU AND ALL ASSOCIATED DUCTWORK, PIPING, ROOF CURBS, ELECTRICAL AND ALL ANCILLARY DEVICES. 3 ALL MECHANICAL DEVICES WITHIN THIS AREA ARE TO BE DEMOLISHED IN THEIR ENTIRETY. THIS TO INCLUDE BY NOT

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Document – August 26, 2024
REGISTERED PROFESSIONAL JASON BRIAN LOTOHEN DOUP ENGINEED TO ENGINEED TO PE-082410
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IWEALTH OF PENNSYLVANIA MENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA
-0961-0044 PHASE 01
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E AIR GUARD STATION
HORSHAM, PA 19044
JICAL NEW WORK PLANS
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	COMMON DEPART
	D.G.S. PROJECT NO.
VERIFY SCALE	BUILD
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:	BIDDL
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	MECHAN
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT	drawn by <i>JBL</i>
DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	checked by <i>JBL</i>

- 9 PROVIDE NEW INLINE PUMPS, INCLUDE HANGERS, REDUCERS AND ALL ANCILLARY DEVICES. INSTALL UNITS ABOVE ONE ANOTHER ON NEW HOUSEKEEPING PAD.
- APPURTURANCES. 8 PROVIDE NEW BOILER B-1 AND ALL ANCILLARY DEVICES, MOUNT ON NEW 4" HIGH HOUSEKEEPING PAD.
- NEW VAVS. BASE BID #2: PROVIDE NEW VAV, BRANCH PIPING, HANGERS, THERMOASTS, AND ALL ASSOCIATED 7 BASE BID #1: NG PIPING IS TO BE TRANSITIONED TO 1", AFTER BRANCH TO RTU-3, AND CAPPED FOR FUTURE CONNECTION. BASE BID #2: EXTEND 1" NG BRANCH PIPING TO RTU-4, PROVIDING ALL HANGERS AND ASSOCIATED
- 6 BASE BID #1: PROVIDE HHWS&R BRANCH PIPING AND ISOLATION VALVES WITH CAPS FOR FUTURE EXTENTION TO
- 5 3/4" CONDENSATE DOWN TO 18" ABOVE GRADE.
- 4 PROVIDE 5/8" LIQUID AND 1/2" SUCTION REFRIGERATION LINES.
- (3) CONNECT NEW 2" HHWS&R PIPING TO NEW BOILER B-1 AND CIRCULATING PUMPS
- 2 PROVIDE NEW BUILDING NG METER, VALUMASS FLOWMETER SERIES 400, AND TIE INTO NEW BAS.
- 1 2-1/2" NG UNDERGROUND TO CONNECTION TO EXISTING PECO NG MAIN, REFER TO SITE PLANS.

NEW WORK NOTES:

BID SET 08/26/2024		DESIGN DEVELOPM 01/26/2024	ENT
CONSTRUCTION 07/31/2024	N DOCUMENTS REVISED	,,	
CONSTRUCTION 04/15/2024	N DOCUMENTS		
DESIGN DEVELO 02/26/2024	OPMENT-REVISED		
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ZIN OMMON DEPARTI	MMERMA IWEALTH MENT OF (HARRISBURG,	SIGNATURE SIGNATURE STUDIO ARCHITECTURE + PROJECT MANAGEM OF PENNS ENERAL SE PENNSYLVANIA	DATE
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ZIN OMMON DEPARTI S. PROJECT NO. OGS C- BUILD BIDDL	MMERMA IWEALTH MENT OF C HARRISBURG, -0961-0 ING 237 E AIR G HORSHAM,	SIGNATURE SIGNATURE STUDIO ARCHITECTURE + PROJECT MANAGEM OF PENNSY ENERAL SE PENNSYLVANIA OO 4 4 PHA RENOVA UARD STA PA 19044	DATE
ZIN OMMON DEPARTI S. PROJECT NO. DGS C- BUILD BIDDLI BIDDLI	MMERMA IWEALTH MENT OF C HARRISBURG, -0961-0 DING 237 E AIR G HORSHAM,	SIGNATURE SIGNATURE STUDIO ARCHITECTURE + PROJECT MANAGEM OF PENNSY ENERAL SE PENNSYLVANIA OO44 PHA 7 RENOVA UARD STA PA 19044 PING NEW	DATE
ZIN OMMON DEPARTI S. PROJECT NO. DGS C- BUILD BIDDL BIDDL MECHAN WN BY JBL ECKED BY	MMERMA IWEALTH MENT OF C HARRISBURG, -0961-0 DING 237 E AIR G HORSHAM, NICAL PII DATE 08/26/24 SCALE	SIGNATURE SIGNATURE STUDIO ARCHITECTURE + PROJECT MANAGEM OF PENNSY ENERAL SE PENNSYLVANIA OO 4 4 PHA DO 4 4 PHA RENOVA UARD STA DA 19044 PING NEW DRAWING NO. H-	DATE

2 AHU-03 SECTION 1/4" = 1'-0"

08/26/2024

Level 2 10' - 0"

	DESIGN DEVELOPMENT 01/26/2024
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	JASON BRIAN LOTCHENDORF ENGINEER PROFESSIONAL ENGINEER VN 0 PE-082410
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DATE 08/26/24 SCALE	drawing no. H- 400

OR GULAR
45° ENTRY BOOT MANUAL DAMPER
DIFFUSER
DESIGN DEVELOPMENT 01/26/2024
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RECORD REVISIONS Document - August 26, 2024
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PE-082410 SYLVA
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MENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA
-0961-0044 PHASE 01 ING 237 RENOVATION
E AIR GUARD STATION HORSHAM, PA 19044
DETAILS – AIR
SCALE H-500

AR AR AR AR AR AR AR AR AR AR	JRE GAUGE W/ JRE SNUBBER NG TO 1/2"x1/2"x1/4" TYPE BOLTS. TO PIPE UNION (TYP.) BALL VALVE (TYP.) READED CAP	
12 CONDENSATE TRAP DETAIL 13 PF H501 SCALE: NOT TO SCALE H501 SCALE	RESS. GUAGE DETA	<u>AIL</u>
TO TO TO TO TO TO TO TO TO TO		BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELO 02/27/2024 Construction E
		ZII COMMON DEPARTI
FSI MODEL BFN-11 SIDE STREAM BAG FILTER, 25 GPM	VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING: 0	D.G.S. PROJECT NO. DGS C- BUILD BIDDLE
	IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL	DE DRAWN BY J. LUTCHENDORF CHECKED BY J. LUTCHENDORF
	CI CONCINCICION ALLINOVAL.	L

BAS SOLUTION SINCE DE ASTOMATED ESSIS SOLUTIOES (AES
RANDY ROBERTSON
OUTSIDE SALES ENGINEER
6345 FLANK DRIVE, SUITE 100
HARRISBURG, PA 17112
CELL: (717) 798-4066
RANDY.ROBERTSON@CARRIER.COM

] []		
			ROOFTOP UNIT SCHED	RTU-02	RTU-03	RTU-04 (BASE BID #2)		AINI-SPLIT EQUIPMENT SCHEDULE	UH	TAG	UNIT HEATE	UH-2	UH-3 UH-4		GY RECOVERY VENTI Tag Area Served	ERV-1	E E	EXPANSION TANK SCHEDULE TAG ET-1	
RTU #		SER LOCAT	RVICE GENERAL ITION LOWER ROOF	GENERAL LOWER ROOF	GENERAL UPPER ROOF	GENERAL UPPER ROOF		TAG IDU-1 & ODU-1	#	AREA LOCATED Medium	111-MECH. WATER	120-PUMP RM. 10 WATER	01-ENTRY 103-STORAGE WATER WATER	#	Area Located CFM	LOW ROOF 580	<u>ET</u>	SYSTEMHHWAREA LOCATEDPUMP ROOIOPERATIONHHW	M
P	HYSICAL	RETURN/EXHAUST FAN LENGTH (IN.) WIDTH (IN.)	NTAG ERV-01 91.00 96.50	N/A 85.50 87.00	N/A 111.0 96.5	N/A 0 85.50 0 87.00		AREA SERVED MDF RM. 123	-	Load (MBH) Capacity (MBH) Flow Rate (gpm)	5.2 10.4 1.0	2.8 10.4 1.0	9.9 36.3 66.0 87.7 6.6 8.8	SUPPLY FAN	ESP (in Wc) TSP (in Wc) Quantity (#)	0.50 1.50 1	2	Approx. System Volume (gal.) 2000	
DIN	IENSIONS	6 HEIGHT (IN.) WEIGHT (LBS.)	56.80 2,171.0	40.80 1,515.0	56.8 2,547.	0 40.80 0 1,530.0		LENGTH (IN.) 37.0 WIDTH (IN.) 13.8	Performance	Min. Flow Rate (gpm) EWT (F)	0.3	0.3 180.0	1.0 180.0 180.0		Power Consumed (W) Motor Power (W)	596 860	aramete	Volume (gal.) 8.80 Low (fill) Temp. (°F) 40.0	
EL	ECTRICAL	FLA (A) MCA (A)	55.70 60.10	208/60/3 23.30 25.70		208/80/3 0 20.90 0 23.40	OUTDOOR UNIT	HEIGHT (IN.) 38.9 WEIGHT (LBS.) 179.0 SOUND (Dba) 54.0	-	LWT (F) Max. Mounting Height (ft. Throw (ft)) 9.72 18.0	9.72 18.0	160.0 160.0 20.52 29.0		ESP (in Wc) TSP (in Wc)	0.50	Jance P	High Temp. (°F) 180.0 Initial Tank Press. (psig) 20.0	
		MROPD (A) SCCR (kAIC)	70.00 5.0	35.00 5.0 315	70.0 5. 95	30.00 0 5.0 1		POWER (V/HZ/PH) 208/60/1 RLA 18.9	Coil	P.D (ft HD) Face Vel. (fpm)	0.5 615.0	0.5 615.0	2.6 1,285.0		Quantity (#) Power Consumed (W) Motor Power (W)	1 596 860	Perfor	Tank Acceptance Vol. (gal.)	
	WHEEL	EXHAUST AIRFLOW (CFM) PD (in Wc)		315 0.29	95	1 1,275 4 1.00		FAN FLA0.4FAN W200LOCATIONMDF RM. 123		Number Diameter (in)	1 9	1 9	2 1 19	FILTERS	TYPE EFFICIENCY	DISPOSIBLE MERV 8		Pipe Size to Tank 0.75 (IN) 12.00	
		Motor HP Motor FLA FILTERS	M	0.17 0.70 1ERV-8 M	0.1 0.7 1ERV-8	7 0.17 0 0.70 MERV-8		MOUNTINGWALLLENGTH (IN.)47.3WIDTH (IN.)9.5	-	RPM High RPM Low CFM High	1,550 340	1,550 340	1,075 2,660		Face Vel. (FPM) Weight (lbs.) Length (IN.)	455 60.0	Equip	Height (IN) 27.00 Weight (lbs.) 42.0 NOTES 1.2.3	
		OA TEMP. DB (°F) OA TEMP. WB (°F) BA TEMP. DB (°E)		95.0 78.0 78.9	95. 78. 76.	0 95.0 0 78.0 8 75.0	INDOOR UNIT PHYSICAL DATA	HEIGHT (IN.) 13.4 WEIGHT (LBS.) 38.0	Blowers	CFM Low HP	1/60	1/60	 1/2 1/6		Width (IN.) Height (IN.)	30.0 82.3 460/3/60	NOTES: 1. A	ASME SECTION VII RATED PRESSURE VES	SEL. RE AND
		RA TEMP. DB (°F) LA TEMP. DB (°F)		68.2 80.9		3 75.0 0 63.0 9 81.5		SOUND (Dba) 49.0 POWER (V/HZ/PH) 208/60/1 FAN FLA 0.4	-	Number V/HZ/PH Amps	1 120/60/1	1 120/60/1 2	2 1 08/60/1 120/60/1 2.8		FLA/MOTOR FLA	1.22 2.44	27 2. R	270°F OPERATING TEMP. REPLACEABLE HEAVY DUTY BUTYL RUBBI BLADDER. FULL ACCEPTANCE.	ER
ENERGY S	JMMER	LA TEMP. DB (°F) MA TEMP. DB (°F) MA TEMP. DB (°F)		69.8 79.6 68.8	68. 77. 67.	7 68.9 3 81.5 4 68.9	-	FAN W 64 SUPPLY AIRFLOW (CFM) 770 FAN SPEED HIGH		Controls Length (IN)	INTEGRAL 13.00	INTEGRAL II 13.00 10.00	NTEGRAL INTEGRAL 75.07 34.75 20.25	EQUIPMENT INFORMATION	MCA MOCP	2.7 15	3. FI	LOOR MOUNTED ON NEW HOUSEKEEPI	ING PAD.
RECOVERY		RECOVERED CAPACITY (MBH) EFFECTIVENESS TOTAL EEEECTIVENESS SENSIBLE		9.5 0.77 0.83	34. 0.8 0.8	0 46.3 2 0.61 5 0.64		RETURN AIR (RA) DB EAT (°F)80.0RETURN AIR (RA) WB EAT (°F)67.0		Height (IN) Weight (Ibs)	11.50 16.00	11.50 16.00	22.75 6.88 392.00 70.00			LOW LEACKAGE MOTORIZED	1		
		OA TEMP. DB (°F) OA TEMP. WB (°F)		7.0 5.0	7. 5.	0 0 0		OUTSIDE AIR (OA) DB (°F) 95.0 OUTSIDE AIR (OA) WB (°F) 75.0 TOTAL CAPACITY (MBH) 36.0	NOTES: 1.	dB 10' from unit NOTES PROVIDE WITH JCI THERMO	1 DSTAT 40-90°F	1	53.00 2 1		NOTES	AIRSTREAMS, DOUBLE WALL CONSTRUCTION, 14" ROOF CURB, DIRECT DRIVE ADVANCED	1		
		RA TEMP. DB (°F) RA TEMP. DB (°F) LA TEMP. DB (°F)		70.0 50.0 61.3	70. 50. 62.	0 70.0 0 50.0 0 45.3	SYSTEM PERFORMANCE	LATENT LOAD (MBH) 13.1 SENS. LOAD (MBH) 22.9 EED 8.4	2.	PROVIDE GRILLE FOR SURFA	ACE MOUNTING					EC MOTORS, FIELD CONTROLS.	1		
	VINTER	LA TEMP. DB (°F) MA TEMP. DB (°F)		45.1 66.8 48.3	45. 68.	5 35.6 0 45.3 2 25.6		SEER 17.9 LAT DB (°F) 58.0	SYSTEM	DOMESTIC WATER	(ABV. GRD.)	CHANICAL MATER	AL SCHEDULE	COOLIN	G COIL CONDENSATE	В	BOILER SCHE	DULE B-1	
		RECOVERED CAPACITY (MBH) EFFECTIVENESS TOTAL		20.7 0.78	64. 0.8	9 74.2 4 0.63		LAT WB (°F) 57.6 FLUID REFRIGERANT POWER (V/HZ/PH) 208/60/1	ABBREVIATIO	DN NPW <2.5'	· · · · · · · · · · · · · · · · · · ·	G <2.5"	HWS, GHWR >=2.5"		COND. ALL		rea Served rea Located NPUT (MBH)	BUILDING PUMP ROOM 400	
		EFFECTIVENESS SENSIBLE SUPPLY AIRFLOW (CFM) OUTSIDE AIRFLOW (CFM)	3,439	0.83 892 315	0.8 4,19 95	6 0.64 7 1,275 1 1,275		MCA 19.5 MFA 20.0 DETURN AUX (DA) DR EAT (%5) 75.2	PIPING	ASTM B88 COPPER TUB DRAW	ING TYPE "L" HARD SEA	MLESS COPPER WATER TUBE, AST 88, TYPE K, HARD	M B BLACK STEEL PIPE, ASTM A 53/106 G	RADE 20" WASTE, AND	AINAGE TUBING, DRAIN, VENT, (DWV) ASTM B 306	RATINGS WATER R	INPUT (MBH) COSS OUTPUT (MBI	H) 322	
		TOTAL LOAD (MBH) LATENT LOAD (MBH)	122.1 40.0	35.3 13.1	133. 46.	1 50.6 4 15.1		RETURN AIR (RA) UB EAT (°F) 75.2 RETURN AIR (RA) WB EAT (°F) 60.2 OUTSIDE AIR (OA) DB (°F) 95.0			sc	DLDERED USING ASTM B 32, 95-5 T	WELDED ENGINEERING STANDARDS	S OF SOLDERED US	ING ASTM B 32, 95-5 TIN-	B WATER TH	OILER H.P. HERMAL EFFICIENC	9.7 Y 84%	
	AIR	MA DB EAT (°F) MA WB EAT (°F)	77.8 67.0	79.6 68.8	77. 67.	5 55.5 3 81.5 4 68.9	SPACE COOLING LOA	OUTSIDE AIR (OA) WB (°F) 78.0 TOTAL CAPACITY (MBH) 21.3 LATENT LOAD (MBH) 0.8	JOINTS	ANSI STANDARD B 16.1 16.22 COPPER SOLDE	8 OR ASME/ANSI B AN R JOINT FITTINGS ANI	TIMONY OR GRADE SN 96 TIN-SIL\ D FLUX CONTAINING NOT MORE TI 0.2% LEAD	ASSOCIATION OF AMERICA, INC. PAR STANDARD PROCEDURE SPECIFICATIO	ANTIMONY O AND FLUX COM	R GRADE SN 96 TIN-SILVER TAINING NOT MORE THAN 0.2% LEAD		eight (lbs.) ength (IN.) Width (IN.)	1,600 64.5 21.0	
COOLING		LAT DB(BEFORE FAN HEAT GAIN) (°F) LAT WB(BEFORE FAN HEAT GAIN) (°F) LAT DB (AFTER FAN HEAT GAIN) (°F)	56.0 55.7 58.0	56.1 56.1 58.0	56. 56. 58.	4 57.4 4 57.4 0 58.0		SENS. LOAD (MBH) 20.5 LAT DB (°F) 58.3		COPPER SOLDER JOIN	IT FITTINGS ANSI	BLACK, MALLEABLE IRON-SCREWE	STEEL BUTT-WELDING FITTINGS, AI STANDARD B 16.9 USING LONG-TURN	NSI I ELLS, WROLIGH	COPPER AND BRONZE	H WATER Chimpe	eight (IN.) CONTENT (GAL)	50.375 36.5	
		AIR VELOCITY (FPM) ROWS (#)	222.9 4	178.7 3	246.	1 279.1 4 4		PROVIDE UNIT WITH: EXTENDED OPERATING RANGE, WIND BAFFLE, P1P2 BACNET ADAPTER,	FITTINGS	STANDARD B 16.18 OR A AND ASTM B 687 COP WITH THREAD	ASME/ANSI B 16.22 FIT PER PIPE NIPPLES FOF DED ENDS	TINGS, 68 KG, ANSI STANDARD B 1 LESS THAN 517 KPA AND 136 KG 517 KPA OR MORE	6.3 ANSI STANDARD B 16.5 WELD-NECK FOR SLIP-ON FLANGES AND BONNEY FO WELDOLETS AND THREADOLETS, W	COR DRAINAGE FI RGE B16.23	ITINGS, ANSI STANDARDS ASNI/ASME B16.29	Fuel F	Fuel Press. (in. W.C.)	NG 5	
AHR	CERTIFIE	AIR P.D (in Wc) NET CAPACITY (MBH)	0.21 122.0	0.13 33.8	0.2 119.	4 0.32 0 44.0	NOTES	THERMOSTAT AND ASSOCIATED CABLING, INTEGRAL CONDENSATE PUMP. PROVIDE WITH WALL HANGING KIT.	JOINING METH	HOD SOLDE	R VITH ASJ VAPOR R	SOLDERED IGID AND MOLDED WITH ASJ VAPC	THICKNESS TO MATCH PIPE WELDED OR RIGID AND MOLDED WITH ASJ VAP	POR RIGID AND M	SOLDER IOLDED WITH ASJ VAPOR		ige (V/Hz/Ph) FLA MCA	120/60/1	
	DATA	EER IEER FLUID	12.4 19.3 DX DX	12.2 15.3 X D	12. 18. X	2 11.4 3 14.3 DX				BARRIER JACKET AND P	VC FITTING COVERS BAR 1.5	RIER JACKET AND PVC FITTING CO 5" FOR <1.5" PIPE, 2" FOR >=1.5" P	VERS BARRIER JACKET AND PVC FITTING CC	DVERS BARRIER JACKE	T AND PVC FITTING COVERS		МОСР		
	IEDIUM	REFRIGERANT SUPPLY AIRFLOW (CFM)	410A 41	10A 4: 892	10A 4,19	410A 7 1,275	P	TAGHWP-1HWP-2SYSTEMHHWHHW					LUGGED TYPE, RESILIENT SEATED	0					
HEATING	AIR	CAPACITY (MBH) MA DB EAT (°F)		64.0 66.9	160. 68.	4 0.13 0 64.0 2 46.3		REA LOCATED PUMP ROOM OPERATION HHW FRAME FRAME					BUTTERFLY VALVE. ANSI 150 CAST II BODY. EPDM, TERPOLYMER OF ETHY PROPYLENE AND ADIENE, SEAL AND S	RON 'LENE SEAT;			NOTES		
(FURNACE)		LAT (WITH FAN HEAT GAIN) (°F) NG FLOW INPUT (MBH) NG MIN. PRESSURE (IN. OF W.C.)		133.1 80.0 5.0	103. 200. 5.	3 92.6 0 80.0 0 5.0	EQUIPMENT 9	GPM 50 50 FT HD 55 55 6 EFFICIENCY 65.89% 65.89%					SEAT FULLY RETAINED MECHANICA WITH RETAINING RINGS WITH BRO DISC. 416 S.S. SHAFT; 1 PIECE SOLID T	NZE THRU					
N	IEDIUM	NG MAX. PRESSURE (IN. OF W.C.) TURNDOW RATIO		14.0 MODULATING 5:1	14. MODULATING 5:	0 14.0 1 MODULATING 5:1		NPSH (ft) 5.58 PELLAR DIA. (in) 4.960 4.960 DRIVE VED VED	VALVES	FULL PORT, TWO-PIEC TEFLON SEAT CONFOR 110	E, BRONZE BODY, UP T MING TO MSS-SP- P	O 2 1/2" PIPING - BRONZE BODY, 1 IECE FULL PORT BALL VALVES WIT TEFLON SEAT.	WO- SHAFT, PINNED TO DISC; PROVIDE LE H HANDLES UP TO AND INCLUDING 4 PROVIDE HANDWHEEL OPERATORS	EVER 4". FOR					
FILTER	IITIAL-1	MEDIA / TYPE MERV MEDIA / TYPE	Fiber / Panel Fib MERV-8 M Micro-fine Glass/Panel M	iber / Panel Fi 1ERV-8 M 1icro-fine Glass/Panel M	iber / Panel 1ERV-8 1icro-fine Glass/Panel	Fiber / Panel MERV-8 Micro-fine Glass/Panel		DRIVE VFD VOLTS 208 PHASE 3					VALVES 6" AND ABOVE. ALL VALV LOCATED 6'-0" OR MORE ABOVE T VALVE ACCESS LEVEL SHALL BE FIT	ES 'HE TED					
	INAL-1	MERV AIRFLOW (CFM)	MERV-14 M 3,439	IERV-14 M 892	1ERV-14 4,19	MERV-14 7 1,275	ELECTRICAL DU	TY POINT RPM 2,852 2,852 ITY POINT BHP 1.04 1.04 JTY POINT HZ N//A N//A					WITH CHAIN OPERATORS. VALVES SI BE MANUFACTURED BY DEZURIK JAMESBURY, WATTS, MILWAUKEE	HALL <, OR					
		MOTOR TYPE E.S.P. (IN. of W.C.)	ECM EC 1.50	CM EC 2.00	CM 2.0	ECM 2.00		DRIVE - - MOTOR HP 1.5 1.5					NIBCO						
	SUPPLY	T.S.P. (IN. of W.C.) MIN. QUANTITY (#) FAN BRAKE POWER (BHP EACH)	3.10 1 2.64	3.74 1 1.30	4.4	2 4.20 1 1 0 1.80		GRD SCHEDUL	E										
		TOTAL BRAKE POWER (BHP) FAN MOTOR POWER (HP EACH)	2.64 8.00 8.00	1.30 4.00	4.3 8.0 8.0	0 1.80 0 2.30 0 2.30	TAG NECK-CFM	FAG CD-1 CD-2 CD-3 CD-4 SG-1	RG-1	RG-2 EG-1	EG-2	MSSG-1 MSRG-1							
FANS		AIRFLOW (CFM) DRIVE	3,439 DIRECT DI	892 IRECT D	4,19 VIRECT	7 1,275 DIRECT		LOCATED SEE PLANS											
		MOTOR TYPE E.S.P. (IN. of W.C.) T.S.P. (IN. of W.C.)	ECM EC 2.50 2.50	CM E0 1.50 1.50	CM 1.5 1.5	ECM 0 1.50 0 1.50		YPE PLAQUE SQUARE HIGH STELETHOR LOOVERED DIFFUSER PLAQUE INDUCTION GRILLE	GRILLE	GRILLE GRILLE	GRILLE	EL GRILLE STEEL GRILLE							
	ETURN	QUANTITY (#) FAN BRAKE POWER (BHP EACH)	1 2.22 2.22	1 0.47 0.47	1.8	1 1 6 1.21 6 1.21		SEE PLANSSEE PLANSSEE PLANSSEE PLANSSEE PLANSSIZESEE PLANSSEE PLANSSEE PLANSSEE PLANSSEE PLANS(IN WG)0.016-0.0360.016-0.0360.016-0.0360.0110.015	SEE PLANS SEE PLANS 0.01	SEE PLANSSEE PLANSSEE PLANSSEE PLANS0.010.069	SEE PLANS SE SEE PLANS SE 0.02	E PLANSSEE PLANSE PLANSSEE PLANS0.020.02							
		FAN MOTOR POWER (HP EACH) TOTAL POWER (HP)	4.30 4.30	2.30 2.30	4.0 4.0	0 2.30 0 2.30		IECK SEE PLANS SEE PLANS - NC 18 20	- 18	 18 -	-	 					C 05 B1	ID SETDES8/26/202401,ONSTRUCTION DOCUMENTS	SIGN DEVELOPMENT /26/2024
		EA (CFM) ASSOCIATED EXH. FAN TAG OA %	580 ERV-01 16.9%	315 N/A 35.3%	95 	1 1,275 A N/A 6 100.0%		JNTING LAY-IN LAY-IN LAY-IN SURFACE DUCT NISH - - - - -	LAY-IN	DUCT LAY-IN	SURFACE S	URFACE SURFACE					07 C 0	7/31/2024 REVISED ONSTRUCTION DOCUMENTS 4/15/2024	
OUTDOOR	AIR	SUMMER TEMP DB (°F) SUMMER TEMP WB (°F) WINTER TEMP DB (°E)	95.0 78.0	95.0 78.0	95. 78.	0 95.0 0 78.0 0 0.0	NOTES: 1. NC EC 2. PROV	OTES 1,2 1,2 1,2 1 1 QUAL TO OR LESS THAN 40. // IDE INSULATED BLANKET // IDE INSULATED BLANKET	1	1 1	1	1 1						ESIGN DEVELOPMENT-REVISED 2/27/2024 RECORD REVISI	IONS
Units NOTES Phase	o be DX C failure me	Cooling, Heat Pump Heating, HHW suppement onitor, 14" curb (RTU-2 to be provided with	nental heating (as indicated), Economize th ducted plenum curb for exterior duct	er, Heat Recovery (except RTU- t routing), RTU-04 to operate w	-1), Non-fused disconnect sv /ith 315 cfm OA (minimum c	vitch, Field powered GFI outlet,											С	onstruction Document – August 26, 2	2024
for a s	pace purg	ge the unit will become a 100% OA unit																	PROFESSIONAL
		TAC 1/4/4 04	VAV/1-02		-05 \/\//1.06	VAV/1-07		//4-02											JASON BRIAN LOPCHENDORP
		ASSOCIATED EQUIP. TAG RTU-01 114-0FFFICE 114-0FFFICE	RTU-01 RTU-01 8 117-MEN'S & 121-BREAK	RTU-01 RTU-0 122-	1 RTU-01 108- CORRIDOR,	RTU-01 RTU-01	RTU-04 RT	·U-04											SYLVA AND
	-	AREAS SERVED 114-OFFFICE 110-STORAG SERVICE SUPPLY	GE 118-WOMEN'S ROOM SUPPLY SUPPLY	CLASSROOM 115-OFF	FICE 112-OFFICE & 10 113-OFFICE . Y SUPPLY	1-ENTRY VEST. 105-WEAPONS SUPPLY SUPPLY	OFFICE 103-S	TORAGE PPLY										SIGI	NATURE DATE
		LOCATION 114-OFFFICE	E 117-MEN'S & 121-BREAK 118-WOMEN'S ROOM	122- CLASSROOM 115-OFF	FICE 112-OFFICE & 10	1-ENTRY VEST. 105-WEAPONS	104-SUPPLY OFFICE 103-S	TORAGE										ZIMMERMAN	
INLET (Ø) OUTLET (Ø/ APD	WxH)	(IN.) 9 (IN.) 14x12.5 (IN. WG) 0.09	/ 8 12x10 12x10 0.04 0.01	12 5 16x15 12x8 0.01 0.01	7 3 12x10 0.01	5 4 12x8 12x8 0.01 0.01	4 12x8 10 0.01 0	12 5x15 0.01										A	ARCHITECTURE + PROJECT MANAGEMENT
UNIT PEAK AIRFL MIN. AIRFL ORIFNTATI	OW DW DN	(CFM) 545 (CFM) 164 HORIZ./VERT. HORIZ	380 615 114 185 HORIZ. HORIZ	1,000 205 300 62 HORIZ. HORIZ	420 126 Z. HORI7	245 175 74 53 HORIZ. HORIZ	100 1 45 3 HORIZ. H4	,175 353 DRIZ.									CC	MMONWEALTH OF	PENNSYLVANIA
WEIGHT	Г	(LBS.) 26.17 COIL CAPACITY HIGH CAPACIT	ITY HIGH CAPACITY HIGH CAPACITY	STD. CAPACITY STD. CAPA	20.38 ACITY HIGH CAPACITY S	TD. CAPACITY STD. CAPACITY	STD. CAPACITY STD. C	1.95 CAPACITY									D'	EPARTMENT OF GENI HARRISBURG, PENNS	ERAL SERVICES
	-	SUPPLY AIRFLOW (CFM) 315 TOTAL LOAD (MBH) 15.31 EAT (°F) 50.0	210 265 10.21 12.88 50.0 50.0	360 115 17.50 5.59 50.0 50.0	155 7.54 50.0	245 55 11.91 2.68 50.0 50.0	50 3 2.43 1 50.0 5	353 7.14 60.0									D.G.S.	$\frac{1}{2} \frac{1}{2} \frac{1}$	4 PHASE 01
REHEAT COII	-	LAT (°F) 95.0 ROWS (#) 1 APD @ MAX FLOW ("Wc) 0.00	95.0 95.0 1 1 0.10 0.20	95.0 95.0 1 1 0.12 0.04	95.0 1 0.11	95.0 95.0 2 1 0.13 0.02	95.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0	95.0 1 0.15								VERIFY SC	ALE	BUILDING 237 RI	ENOVATION
		FLUID WATER P.D (ft H20) 2.65	WATER WATER 0.68 1.50	WATER WATE 0.45 0.14	No.11 R WATER 0.34	WATER WATER 0.20 0.14	0.02 0 WATER W 0.14 0	ATER 0.70								BAR IS ONE (1) INCH I ON ORIGINAL DRAW	LONG	HORSHAM PA	19044
MEDI	IMI	HHW FLOW (GPM) 1.45 EWT (°F) 180 LWT (°F) 158.9	1.02 1.29 180 180 160 160	1.75 0.56 180 180 160 160	0.53 180 151.7	1.19 0.50 180 180 160 169.28	0.50 2 180 1 170.28 1	2.02 180 163								IF BAR IS NOT ONE (1) INC	1 CH LONG, RDINGI Y	SCHEDUI	ES
NOTES: 1. PROVIDE	TRANSIT	NOTES 1,3,4 ION UPSTREAM AND DOWNSTREAM OF A	1,3,4 1,3,4 AIR VALVE AS REQUIRED TO MATCH INE	1,3,41,3,4DICATED DUCT SIZE, GRD NECK	4 1,3,4 K SIZE AND/OR ASSOCIATED	1,3,4 1,3,4 REHEAT COIL SIZE, PROVIDE ACC	1,2,3,4 1, CESS DOOR UPSTREAM OF	2,3,4 COIL.								CONTRACTOR SHALL FIEL ALL DIMENSIONS	-D VERIFY DRAWN S. J. /	DATE DRAWI UTCHENDORF 08/26/2024	NG No.
3. FIELD CC 4. DUAL M	NTROLS. NIMUM A	AIRFLOW SETPOINT IN COOLING THE UNIT	SHALL OPERATE BETWEEN THE PEAK A	AIRFLOW AND MIN. AIRFLOW,	IN HEATING THE UNIT SHAL	L OPERATE BETWEEN THE REHE	AT AIRFLOW AND MIN. AIF	RFLOW.								DOCUMENTS NOT PERI WITHOUT PROFESSIONAL OF CONSTRUCTION APP	MITTED & BUREAU PROVAL.	KED BY SCALE UTCHENDORF AS NOTED	H-601

	ABBREVIA	TIONS
	LHW	LAB HOT WATER
	LHR	LAB HOT WATER RETURN
	LS	LAB SINK
	LW	LAB WASTE
	LV	LAB VENT
	MAX.	MAXIMUM
	MFG	MANUFACTURER
	M.C.	MECHANICAL CONTRACTOR
URN	MIN.	MINIMUM
PLY	R	RISER
	RD	ROOF DRAIN
	RWC	RAIN WATER CONDUCTOR
	SH	SHOWER
	SK	SINK
	S	STORM
ASH	SW	SANITARY WASTE
	SV	SANITARY VENT
	TYP.	TYPICAL
	VLV	VALVE
	VTR	VENT THROUGH ROOF
	w	WIDE
	W/	WITH
	WC	WATER CLOSET
	WCO	WALL CLEANOUT
	WF	WATER FOUNTAIN
	WHA	WATER HAMMER ARRESTOR

- 1. CONTRACTOR SHALL VISIT THE SITE. BECOME FAMILIAR WITH THE EXISTING FIELD CONDITIONS, 9. CONTRACTOR SHALL REFER TO PLANS, SCHEDULES, DETAILS, DIAGRAMS AND SPECIFICATIONS AND OWN ESTIMATE OF THE DIFFICULTIES ATTEMPTING THE EXECUTION OF THE WORK PRIOR
- 2. CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE PRIOR TO DOING ANY WORK AFFECTING ANY OPERATIONAL AREA ADJACENT TO THE AREA OF WORK.
- 3. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEMOLISHED MATERIALS, EQUIPMENT, AND CONSTRUCTION DEBRIS FROM SITE COMPLETELY. NO DEMOLISHED MATERIALS, EQUIPMENT AND
- 4. BEFORE LEAVING THE SITE AT ANYTIME THE CONTRACTOR SHALL ENSURE CONSTRUCTION AREA IS SECURE, ALL MATERIALS AND EQUIPMENT ARE STORED SO NOT TO CREATE A HAZARD, AND ALL CONSTRUCTION DEBRIS IS CLEANED UP. THE CONSTRUCTION AREA SHALL
- 5. CONTRACTOR SHALL COORDINATE WITH OWNER REPRESENTATIVE TO DETERMINE APPROVED LOCATIONS FOR NEW EQUIPMENT AND MATERIAL LAY-DOWN AREAS PRIOR TO SUBMITTING
- 6. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, SIZES, CLEARANCES AND LOCATIONS
- 7. ALL DRAWINGS ARE DIAGRAMMATIC AND ARE FOR CONTRACTOR'S REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, EQUIPMENT CONNECTION SIZES,
- 8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL SHUTDOWNS REQUIRED TO COMPLETE WORK WITH OWNER. CONTRACTOR SHALL NOT BEGIN WORK UNTIL

- 1. CONTRACTOR SHALL ASSESS EXISTING EQUIPMENT, FIXTURE AND PIPING LAYOUT AND ALL THE WORK INVOLVED TO DEMOLISH EXISTING EQUIPMENT AND PIPING TO
- 2. EXISTING PIPING SHOWN TO BE DEMOLISHED SHALL BE DEMOLISHED AS SHOWN
- AND/OR INSTALL NEW EQUIPMENT, FIXTURES, AND PIPING. 3. ALL EQUIPMENT CALLED TO BE DEMOLISHED SHALL BE COORDINATED WITH OWNER
- TO CONFIRM IF THEY WILL REQUIRE THESE ITEMS TO BE SALVAGED, IF THE CONTRACTOR IS NOT DIRECTED TO SALVAGE SAID ITEMS THEY SHALL BECOME
- 4. THE CONTRACTOR SHALL SCAN THE LOCATIONS OF ALL CONCRETE WALL/FLOOR/CEILING PENETRATIONS AND REPORT THE FINDINGS TO THE OWNER

- FOR PROJECT INFORMATION AND REQUIREMENTS.
- ROUTINGS, ELEVATIONS, AND VALVE AND SPECIALTY LOCATIONS.
- CLEARANCES TO EXISTING MATERIALS AND EQUIPMENT.
- INSULATION THICKNESS SPECIFIED. 13. CONTRACTOR IS RESPONSIBLE FOR AREA PROTECTION FOR ALL FURNITURE, FLOORS,
- 14. CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR ACCESS TO ALL RISER AND FIXTURE VALVES.
- HORIZONTAL PIPE.

GENERAL MECHANICAL NEW WORK NOTES:

- PASSED THROUGH AND NEW PIPING IS NOT TO BE INSTALLED IN THE SAME AND WARRANTIES.
- 3. ALL SERVICES WHICH WERE DEMOLISHED AND CAPPED, SHALL BE CAPPED USING

			PLUMBIN	G MATERIAL S	SCHEDULE			
SYSTEM	DOMESTIC WATER	NATURAL GAS (BLW. GRD.)	NATURAL GAS (ABV. GRD.)	STORM WASTE (BLW. GRD.)	STORM WASTE (ABV. GRD.)	SANITARY WASTE (BLW. GRD.)	SANITARY WASTE (ABV. GRD.)	SANITARY VENT
ABBREVIATION	CW & HW	NG	NG	ST	ST	SW	SW	SV
PIPING	ASTM B88 COPPER TUBING TYPE "L" HARD DRAWN	POLYETHYLENE PIPE, ASTM D 2513, 690 KPA WORKING PRESSURE, STANDARD DIMENSION RATION (SDR), THE RATIO OF PIPE DIAMETER TO WALL THICKNESS, 11.5 MAXIMUM	BLACK STEEL PIPE, ASTM A 53/106 GRADE B, SEAMLESS SCHEDULE 40.	CAST IRON HUB AND SPIGOT PIPE, SERVICE WEIGHT, ASTM A74	CAST IRON CISPI 301, HUB-LESS SERVICE WEIGHT	CAST IRON HUB AND SPIGOT PIPE, SERVICE WEIGHT, ASTM A74	CAST IRON CISPI 301, HUB-LESS SERVICE WEIGHT	CAST IRON CISPI 301, HUB-LESS SERVICE WEIGHT
JOINTS	ANSI STANDARD B 16.18 OR ASME/ANSI B 16.22 COPPER SOLDER JOINT FITTINGS	BUTT-FUSION TECHNIQUE PER ASTM D2657, SECTION 9	THREADED USING AMERICAN STANDARD FOR PIPE THREADS, ANSI STANDARD B 2.1	PREMOLDED RUBBER COMPRESSION GASKET JOINT, ASTM C 564 OR CISPI HSN	NO-HUB NEOPRENE GASKET AND STAINLESS STEEL CORUGATED SHIELD, CISPI 310, 301 COUPLING	PREMOLDED RUBBER COMPRESSION GASKET JOINT, ASTM C 564 OR CISPI HSN	NO-HUB NEOPRENE GASKET AND STAINLESS STEEL CORUGATED SHIELD, CISPI 310, 301 COUPLING	NO-HUB NEOPRENE GASKET AND STAINLESS STEEL CORUGATED SHIELD, CISPI 310, 301 COUPLING
FITTINGS	COPPER SOLDER JOINT FITTINGS ANSI STANDARD B 16.18 OR ASME/ANSI B 16.22 AND ASTM B 687 COPPER PIPE NIPPLES WITH THREADED ENDS	POLYETHYLENE SOCKET ITTINGS, ASTM D 2683 OR BUTT-FUSION FITTINGS, ASTM F2206 MOLDED.	BLACK, MALLEABLE IREON-SCREWED FITTINGS, 68 KG, ANSI STANDARD B 16.3	CAST IRON HUB AND SPIGOT FITTINGS, SERVICE WEIGHT, ASTM A74	CAST-IRON, CISPI 301	CAST IRON HUB AND SPIGOT FITTINGS, SERVICE WEIGHT, ASTM A74	CAST-IRON, CISPI 301	CAST-IRON, CISPI 301
JOINING METHOD	SOLDER	FUSION	THREADED	HUB AND SPIGOT	NO-HUB	HUB AND SPIGOT	NO-HUB	NO-HUB
INSULATION	RIGID AND MOLDED WITH ASJ VAPOR BARRIER JACKET AND PVC FITTING COVERS				RIGID AND MOLDED WITH ASJ VAPOR BARRIER JACKET AND PVC FITTING COVERS			
INSULATION THICKNESS	1.5"				1.5"			
VALVES	FULL PORT, TWO-PIECE, BRONZE BODY, TEFLON SEAT CONFORMING TO MSS-SP-110							

10. CONTRACTOR SHALL PREPARE AND ISSUE CONSTRUCTION COORDINATION DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER AND OWNER PRIOR TO ANY FABRICATION OR PURCHASE OF MATERIALS. COORDINATION DRAWINGS SHALL DEPICT ALL EXISTING AND NEW PIPING

11. CONTRACTOR SHALL PROVIDE ALL PIPING TIGHT TO UNDERSIDE OF BUILDING STRUCTURE. WHERE EXISTING UTILITIES PREVENT SUCH INSTALLATION, THE CONTRACTOR SHALL OFFSET NEW PIPING AROUND EXISTING UTILITY AND PROVIDE PIPING IMMEDIATELY BELOW SUCH EXISTING UTILITY. NEW INSTALLATIONS SHALL NOT BLOCK SERVICE AND MAINTENANCE

12. CONTRACTOR SHALL PROVIDE ALL VALVES WITH STEM EXTENSIONS TO ACCOMMODATE FOR THE

WALLS, CEILINGS, DOORS, GLASS, AND ALL OTHER ARCHITECTURAL/AESTHETIC ITEMS AS REQUIRED TO FULFILL THE SCOPE OF WORK OUTLINED HEREIN. WHERE ANY DAMAGE OCCURS, THE CONTRACTOR SHALL REPLACE IN KIND AT THEIR OWN COSTS.

15. CONTRACTOR SHALL REFER TO SINGLE LINE DIAGRAMS FOR MAIN, BRANCH, AND FIXTURE PIPE SIZES AND CONFIGURATIONS. ALL DOMESTIC WATER CONNECTIONS TO EXISTING MAINS AND BRANCHES SHALL BE MADE ABOVE THE CENTERLINE OF THE

16. CONTRACTOR SHALL PROVIDE DRAINS AT ALL LOW POINTS AND VENTS AT ALL HIGH POINTS OF DOMESTIC WATER AND SERVICE HOT WATER SYSTEMS.

1. THE CONTRACTOR SHALL PROVIDE IDENTIFICATION FOR ALL NEW EQUIPMENT AND PIPING TO MATCH EXISTING TYPE, LOCATION, AND SIZE. WHERE THERE ARE NO EXISTING TYPES TO MATCH, PROVIDE IDENTIFICATION PER SPEC'S. 2. ALL EXISTING WALL/FLOOR/ROOF PENETRATIONS WHERE DEMOLISHED PIPING

LOCATION, SHALL BE INFILLED BY CONSTRUCTION MATCHING THE EXISTING AND IN A MANNER AS TO MAINTAIN ALL EXISTING AND NEW WALL FIRE/SMOKE RATINGS

THE SAME MATERIALS AND INSTALLATION METHODS OF EACH SYSTEM INSTALLED, ALL INSULATION SHALL BE MADE WHOLE WITH MATERIALS MATCHING THE EXISTING, IN A NEAT AND ORDERLY FASHION WITH ALL JOINTS SEALED.

WH EQUIPMENT INFORMATION GAS ELECTRICAL NOTES: 1. PRC 2. PRO 3. FLOC

PLUMBING FIXTURE SCHEDULE DRAIN (IN.) (IN.) TRAPVENTHWCWWSFU(IN.)(IN.)(IN.)(IN.)DFU(H/C/T) TAG ITEM REMARKS LAVATORY PROVIDE WITH ADA OFFS 1-1/4 1 FAUCE 1.5/1.5/2 PROVIDE WITH THERMO TRAP 1-1/2 1-1/2 1-1/2 SUPPLIES 1/2 1/2 RIGID SUPPLIES, PROVIDE WATER HANDICAP TOILET MOUN CLOSET FLUSH VALVE 0/10/10 BATTERY POWERED, 1.6 | 1 | ELONGATED, STANDARD TOILET SEAT STAINLESS STEEL CHECK CARRIER WATER MOUNT TOP OF TOILET CLOSET 0/10/10 BATTERY POWERED, 1.6 FLUSH VALVE 1 ELONGATED, STANDARD TOILET SEAT STAINLESS STEEL CHECK CARRIER 4 URINAL FLUSH VALVE 0/5/5 BATTERY POWERED, 0.5 3/4 CARRIER HC SHOWER 1/2 1/2 2 1/1/1.4 PROVIDE SEAT AS PER AF DRAIN 2 SHOWER 1/2 1/2 2 1/1/1.4 F-6 DRAIN 2 PROVIDE WITH 1453BB S MOP BASIN 2 3 HANGER BRACKET, E884 FAUCET 1/2 1/2 2.25/2.25/3.0 SINK 1-1/4 FAUCET 1/1/1.4 TRAP 1-1/2 | 1-1/2 | 1-1/2 F-8 _____ 1/2 1/2 **RIGID SUPPLIES, PROVIDE** SUPPLIES PROVIDE WITH 1" CONN HOSE BIBB 0/2.5/2.5 HB-1 1 (EXTERIOR) FINAL WALL COLOR, HOSE BIBB HB-2 3/4 0/2.5/2.5 (INTERIOR)

 STAINLESS STEEL PIPE KLOSHURE—7 SERIES INSULATION STRUT CLAMPS

AS MANUFACTURED BY HYDRA-ZORB - THERMOPLASTIC ELASTOMER UNISTRUT DIELECTRIC PIPE CUSHION

HOT DIPPED GALVANIZED UNISTRUT FRAMING

18/26/20247/31/2024 14/15/2024DESIGN DEVELOF 2/27/2024 02/27/2021 Construction Do

ZIN Tr.

COMMON DEPARTM DGS C-BUILDI **VERIFY SCALE** BIDDLE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:

J. LUTCHENDORF

J. LUTCHENDORF

IF BAR IS NOT ONE (1) INCH LONG,

ADJUST SCALE ACCORDINGLY CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED

WITHOUT PROFESSIONAL & BUREAU

OF CONSTRUCTION APPROVAL.

WATER HEATER SCHEDULE VIII TAG WH-1 SYSTEM POTABLE HW INLET TEMP. (*) 40.0 INLET TEMP. (*) 23.0 INMATION STA DEUVERY (GPH) 23.0 GAS MINN. INLET PRESS. (IN. W.C.) 3.00 TRICAL VOITS/PHASE/NZ 120/1/60 NOTES: 1.970/000 WITH CONCENTRIC VENT/INTARE 1.2.3 WOTES 1.970/000 WITH CONCENTRIC VENT/INTARE 1.2.3 WITH ADD OFTSTEE DRAIN K-7.33.A. EWITH ADD OFTSTEE DRAIN K-7.33.A. EWITH ADD OFTSTEE DRAIN K-7.33.A. WITH THERMOSTATIC MINING VALVE ED4451 INTARE INTARE INPOLES, PROVIDE WITH INAV GUARD2 ADD PROTECTION KIT MODEL 103EZ INTARE NEWLES, PROVIDE WITH				
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- (10) DEMOLISH EXISTING C.O. AND READY FOR PIPIN ON NEW WORK PLANS.
- 9 DEMOLISH EXISITNG RWC BACK TO ABOVE FINIS NEW CONNECTION AND TRANSITION TO NEW RW
- 8 DEMOLISH EXISTING RWC AND CAST IRON BOOT BELOW GRADE AS REQUIRED TO FACILITATE INSTALLATION OF NEW EXTERIOR WALL MATERIALS AND INSTALL NEW BOOT PROUD OF THE NEW MATERIAL.

- (7) TO SINKS TO BE DEMOLISHED.
- $\left(\begin{array}{c} 6 \end{array} \right)$ ROOF DRAIN TO BE DEMOLISHED.
- $\langle 5 \rangle$ SEDIMENT DRAIN TO BE DEMOLISHED.

DEMOLITION NOTES:

- 4 OIL SEPARATER AND UNDERGROUND TANK TO BE DEMOLISHED IN THEIR ENTIRETY. REPLACE SEPARATER SECTION OF SANITARY WITH EQIVALENT PIPE. SEDIMENT DRAIN TO BE DEMOLISHED.
- $\boxed{3}$ EYE WASH AND WATER COOLER TO BE DEMOLISHED. CUT SANITARY BACK TO MAIN AND CAP.
- $\langle 2 \rangle$ Contractor to cut and CAP Floor Drain/Clean out. Seal sanitary main and finish floor to match existing.
- 1 ACID RESISTANT FLOOR DRAIN AND ACID NEUTRALIZING TANK TO BE DEMOLISHED AND SANITARY LINE CAPPED BACK AT MAIN. FLOOR TO BE FINISHED TO MATCH EXISITNG.

GENERAL NOTE: - ALL SLAB DEMOLITION SHALL BE BY THE .1 CONTRACTOR AND FILL REMOVAL AND PIPING DEMOILITION BY THE .3 CONTRACTOR.

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DESIGN DEVELOPMENT-REVISED 02/27/2024	
Construction Document — Augus	t 26, 2024
ZIMMERMA	AN STUDIO LLC ARCHITECTURE + PROJECT MANAGEMENT
COMMONWEALTH DEPARTMENT OF C HARRISBURG,	OF PENNSYLVANIA SENERAL SERVICES PENNSYLVANIA
DGS C-0961-0	044 PHASE 01
BUILDING 237 BIDDLE AIR GU	RENOVATION Jard Station
HORSHAM,	PA 19044
SINGLELINE	DIAGRAMS

	GENERAL NOTES:	
CTOR	1. PROVIDE A HYDRAULICALLY CALCULATED WET-PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH THE	REFERENCED ABOVE.
	LATEST ISSUE OF NEPA 13, ALL APPLICABLE NEPA STANDARDS, INTERNATIONAL FIRE CODE, INTERNATIONAL BUILDING CODE, PENNSYLVANIA CODES AND REQUIREMENTS.	7. PROVIDE COORDINATION DRAWINGS FOR APPROVAL IN COORDIN AND RCP. IF APPLICABLE, PRIOR TO SUBMISSION OF SPRINKLE
\ / A \ /=	 REFER TO SPECIFICATION SECTIONS FOR ACCEPTABLE PIPING MATERIALS, SPRINKLER, HEADS, VALVES AND ACCESSORIES. 	COORDINATION DRAWINGS ARE APPROVED CONTRACTOR SHALL
INCH	3. SPRINKLER DATA:	 CONTRACTOR SHALL NOT BEGIN WORK WITHOUT PRIOR WRITTEN FM, AND LOCAL FIRE MARSHALL.
	USE: OFFICE DENSITY: 0.10 GPM/SQ. FT.	9. PROVIDE SPRINKLERS REQUIRED UNDER ALL OBSTRUCTIONS OV LOCATION WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL
	REMOTE AREA: 1,500 SQ. FT. HAZARD CATEGORY: LIGHT HAZARD HOSE DEMAND: 100 GPM FOR 30 MIN. MIN. K-FACTOR: 5.6	10. CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE, AND F TO FULFILL SCOPE OF WORK AS OUTLINED HEREIN. WHERE AN CEILING, THE CONTRACTOR SHALL REPLACE IN KIND AT THEIR
	MIN: REFACTOR: 3.0 MOST REMOTE HEAD MIN. PRESSURE: 7 PSI HEAD TYPE: QUICK RESPONSE (QR) USE: STORAGE	11. GEN. CONTRACTOR IS RESPONSIBLE FOR AREA PROTECTION FO CEILINGS, DOORS, GLASS, AND ALL OTHER ARCHITECTURAL/AE THE SCOPE OF WORK OUTLINED HEREIN. WHERE ANY DAMAGE REPLACE IN KIND AT THEIR OWN COSTS.
	DENSITY: 0.15 GPM/SQ. FT. REMOTE AREA: 1,500 SQ. FT. HAZARD CATEGORY: ORDINARY HAZZARD I	 MOST RECENT FLOW EST WAS PERFORMED ON 9/20/2023 AT PSIG. RESIDUAL PRESSURE-36 PSIG. TEST FLOW-1061 GPM. FLOW AVAILABLE AT 10 PSI-1398 GPM. RESULTS CAN BE OB
	MIN. K-FACTOR: 5.6	13. CONTRACTOR SHALL HAVE FIRE PROTECTION WATER FLOW TES
	MOST REMOTE HEAD MIN. PRESSURE: 7 PSI HEAD TYPE: QUICK RESPONSE (QR)	14. ALL NEW FIRE PROTECTION CONTROL VALVES SHALL BE INSTAI ACCESS AND OPERATION FROM FLOOR LEVEL WITHOUT THE US FEET TO TOP OF OPERATING HANDLES VALVES SHALL BE OR
	4. SYSTEM TYPE:	SIGHT GLASS, OPERATING INSTRUCTIONS, "OPEN/CLOSE" INDIC/
	WET SPRINKLER SYSTEM - CLASS I AUTOMATIC	
	5. ALL PIPING SHALL BE RUN CONCEALED ABOVE NEW CEILINGS WHERE APPLICABLE. COORDINATE PIPING LAYOUT AND ELEVATIONS WITH ALL OTHER TRADES. PROVIDE RETURN BENDS AND OFFSETS AS	15. ALL NEW VALVES MUST BE ELECTRONICALLY MONITORED AND S PROTECTION TECHNICIAN LOCKS.
	REQUIRED TO ACCOMMODATE ALL DUCTWORK, PIPING, CONDUITS, CABLE TRAYS, LIGHTING FIXTURES,	16. ALL NEW FIRE PROTECTION CONTROL VALVES SHALL BE INSTAL

	DESIGN DEVELOPMENT 01/26/2024
N DOCUMENTS REVISED	
DOCUMENTS	
OPMENT-REVISED	
RECORD I	REVISIONS
	REGISTERED PROFESSIONAL JASON BRIAN LOCOMENDOR REGISTERED PE-082410 PE-082410
MMERMA	ARCHITECTURE + PROJECT MANAGEMENT
IWEALTH MENT OF G harrisburg, f	OF PENNSYLVANIA ENERAL SERVICES PENNSYLVANIA
-0961-C	044 PHASE 01
ING 237	RENOVATION
E AIR GU	JARD STATION
HORSHAM,	PA 19044
ION & N	EW WORK PLANS
DATE 08/26/24 SCALE	DRAWING No. FP-100

DESIGN DEVELOPMENT
01/26/2024
REVISIONS
REGISTERED PROFESSIONAL TIMOTELY BAN STREE ENGINEET No. 057419
SIGNATURE DATE
ARCHITECTURE + PROJECT MANAGEMENT
OF PENNSYLVANIA SENERAL SERVICES PENNSYLVANIA
0044 PHASE 01
RENOVATION
PA 19044
DRAWING No.

SURVEY NOTES:

THE SURVEY IS BASED UPON PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES
 1.1. "SITE PLAN - ELECTRICAL, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984.
 1.2. "SITE PLAN & DETAILS, VEHICLE MAINTENANCE FACILITY BY LS DESING GROUP, P.C. DATED JANUARY 27, 1984.
 TOPOGRAPHIC & UTILITY INFORMATION SHOWN BASED ON A FIELD SURVEY PERFORMED BY LANGAN ENGINEERING &

ENVIRONMENTAL SERVICES DURING AUGUST 2023.
3. THE MERIDIAN IS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM

3. THE MERIDIAN IS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).

4. VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

5. OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION OF ANY TYPE.

6. BOUNDARY, WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED UNDER THIS CONTRACT.

7. UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY UNDERGROUND SERVICES, INC.), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS, UNLESS SPECIFICALLY NOTED HERE-ON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON. PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

8. THIS PLAN IS NOT VALID UNLESS STAMPED WITH THE SEAL OF THE UNDERSIGNED PROFESSIONAL OR DIGITAL SIGNED AND SEALED.

EXISTING TRANSFORMER~ 225 KVA

LEGE	ND
DEM	0
BUILDING OVERHANG	
CONCRETE PAD	
BOLLARD	٠

LEGEND		
EXISTING		
BUILDING		
BUILDING OVERHANG		
WALL		
BOLLARD	۲	
FENCE		
PAVEMENT MARKING		
GUARD RAIL		
LIGHT	*	
MONITORING WELL	- \$ -	
GAS METER	(CD)	
ELECTRIC MANHOLE	0	
STORM MANHOLE	\bigcirc	
SANITARY MANHOLE	S	
ELECTRIC METER	0	
FIRE HYDRANT	\$ 2	
ELECTRIC METER	EME	
SEWER		
DOOR	\triangleright	
GAS VALVE	G	
TREE/ BUSH	¢	

ASPHALT MILL AND OVERLAY GENERAL NOTES:

1. HATCHED AREA = 18,325 SQ FT TO MILL & OVERLAY.

PAINT & RE-STRIPE NEW PARKING LAYOUT.
 DISTURBED AREA SLOPE MIN 1% TO MAINTAIN POSITIVE DRAINAGE.
 MATCH TO EXISTING PAVING.

JURISDICTION	# OF PARKING SPOTS	REQUIRED # OF HANDICAP PARKING SPOTS	STALL WIDTH	STALL LENGT
HORSHAM TOWNSHIP	10	1	9 feet	20 feet

LEG	END
PROPO	DSED
BUILDING CANOPY	
CONCRETE SIDEWALK	
SANITARY MANHOLE	Ø
ASPHALT MILL & OVERLAY	
BOLLARD	•
GAS LINE	GG
EDGE OF TRENCH	
LIMITS OF DISTURBANCE	-LOD-LOD-LOD-LOD-LOD-LOD-
STAGING/ LAYDOWN AREA	xx
PROPOSED TRAILER	· · ·
LIMIT OF CONTRACT LINE	
PROJECT BOUNDARY LINE	

DDENDUM #3		
RECORD I	REVISIONS	
ocuments — August	26, 2024	
N WEAL 725	PROFESSIONAL ENGINEER	
PROFESSIONAL	Anna Abdo	
MES C. GLEATON JR.	SIGNATURE	
PE053010E		

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	ENERAL SERV	ICES
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HORSHAM,	PA 19044	
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DATE	DRAWING No.	
U8/26/2024 SCALE	EX-O	1
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	Construction [)0(
	ZII	V
	_	
	COMMON	1/
	DEPART	M
	DGS C-	'.
VERIEY SCALE	BUILD)
	BIDDI	F
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:		
0 1		
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	NEW WO	F
CONTRACTOR SHALL FIELD VERIFY	DRAWN BY	Γ
VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED	ID Checked by	
/ITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	TB	
	•	<u> </u>

2 CONDUIT NEW WORK PLAN 1/4" = 1'-0"

<u>a a a a</u>		<u> </u>	
(3) 4" 90 E IDF ROOM TC	LBOW FOR IT V ABOVE LOCKE	VIRING FROM	
CEILING			
		<u>a a a</u> .	
– EX CONDUIT F	OR BLDG 238	FEEDER	
- EX CONDUIT F	OR POLE LTG		
INCUMING SERV	ICE JUNCTION	ROX	
3			
E300			
BID SET 08/26/2024 CONSTRUCTION	DOCUMENTS	DESIGN DEVELOPME 01/26/2024	NI
07/31/2024 CONSTRUCTION 04/15/2024	REVISED DOCUMENTS		
DESIGN DEVELO 02/27/2024	PMENT-REVISED	REVISIONS	
Construction Do	cument – August	26, 2024	
		NO PROFESSIO	ONAL T
		TIMOTHY	NEGRO
		No. 0374	N AN ANA
		SIGNATURE	DATE
ZIM	1MERMA	N	DATE
		ARCHITECTURE + PROJECT MANAGEMEN	LC.
COMMON	WEALTH	OF PENNSY	(LVANIA
DEPARIN	HARRISBURG,	PENERAL SEF PENNSYLVANIA	VICES
DEPARIN D.G.S. PROJECT No. DGS C-	$\frac{120104}{12000000000000000000000000000000000000$	DENERAL SEF Dennsylvania	SE 01
DEPARIN D.G.S. PROJECT No. DGS C- BUILDI	$\frac{10961-0}{10000000000000000000000000000000000$	044 PHA	SE 01 TION
DEPARIN D.G.S. PROJECT No. DGS C- BUILDI BIDDLE	HARRISBURG, 0961-0 ING 237 AIR G HORSHAM	PENNSYLVANIA 0044 PHA 7 RENOVA UARD STA PA 19044	SE 01 TION TION
DEPARTN D.G.S. PROJECT NO. DGS C- BUILDI BIDDLE	ARRISBURG, HARRISBURG, 0961-0 ING 237 AIR G HORSHAM, K POWF	PENNSYLVANIA DO44 PHA RENOVA UARD STA PA 19044	SE 01 TION TION - WEST
DEPARTN D.G.S. PROJECT NO. DGS C- BUILDI BIDDLE NEW WOF DRAWN BY TB	ARRISBURG, HARRISBURG, O961-0 ING 237 AIR G HORSHAM, RK POWE 08/26/2024	DO44 PHA OO44 PHA RENOVA UARD STA PA 19044 R PLAN - DRAWING NO.	SE 01 TION TION - WEST

TYPICAL	WIRING	TYPICAL	POWER DESIGNATION
\frown	BRANCH CIRCUIT WIRING	€ _{xx}	DUPLEX RECEPTACLE – 125V, 2P, 3W
	BRANCH CIRCUIT WIRING TO PANELBOARD (HOMERUN)		
^^^_#	-CIRCUIT NUMBER -PANELBOARD DESIGNATION		+44 = INDICATES MOUNTING HEIGHT C = CLEAN POWER
TYPICAL	FIXTURE DESIGNATION		CLG = MOUNT FLUSH ON CEILING H = HOSPITAL GRADE
0	-LOWER CASE LETTER - CONTROLLING SWITCH DESIGNATION		SS = SURGE SUPPRESSION ST = SAFETY TYPE
b XX	DIAGONAL LINE INDICATES HALF SWITCHED FIXTURE		TW = TWISTLOCK WP = WEATHER PROOF
	2x4 FIXTURE		XP = EXPLOSION PROOF XXA = AMPERES (XX=RATING)
	1x4 FIXTURE		PLC = PLUG LOAD CONTROLLED 1/2PLC = SPLIT CONTROLLED RECEPTACLE WITH
· · · ·	4' CHANNEL/STRIP	Ð	SINGLE RECEPTACLE – 125V, 2P, 3W 20A, UON
	8° CHANNEL/STRIP 2x2 FIXTURE	₽ _{xx}	QUADRAPLEX RECEPTACLE - 125V, 2P, 3W
└─┘ ┝─ <u></u> ₽─┤	WALL MOUNTED FIXTURE		—[TYP. DESIGNATION] PLC = 1 OF 2 DUPLEX RECEPTACLES ARE PL
0	RECESSED, SURFACE OR PENDANT MOUNTED, CIRCULAR FIXTURE (REFER TO FIXTURE SCHEDULE FOR MOUNTING TYPE)	-	GFI DUPLEX RECEPTACLE – 125V, 2P, 3W
ю	WALL MOUNTED FIXTURE	-	GFI QUAD RECEPTACLE - 125V, 2P, 3W
₽	WALL MOUNTED EXIT SIGN – SHADED PORTION REPRESENTS NUMBER OF FACES, ARROWS	-⊕	ISOLATED GROUND/SURGE PROTECTIVE DUPLEX REC
	DENOTE REQUIREMENTS FOR DIRECTIONAL ARROWS	-₩ =€	DUPLEX RECEPTACLE - HALF SWITCHED
V	REPRESENTS NUMBER OF FACES, ARROWS DENOTE REQUIREMENTS FOR DIRECTIONAL ARROWS	-@	SINGLE RECEPTACLE - 250V, 2P, 3W 20A, UON
<u>GENERAL</u>	SWITCHING NOTE:	\$	SINGLE RECEPTACLE - 277V, 2P, 3W 20A, UON
CONTROLLE	D FIXTURES	↔ -@	SINGLE RECEPTACLE - 250V, 3P, 4W 20A, UON WELDING RECEPTACLE - 480V, 3P, 4W 20A, UON
S _X	SINGLE POLE SWITCH	-0	SINGLE RECEPTACLE - 250/125V, 3P, 4W 20A, UC
	-[TTP: DESIGNATION] 2 = DOUBLE POLE SINGLE THROW SWITCH 3 = THREF WAY SWITCH	-@	SINGLE RECEPTACLE - 250/125V, 4P, 4W 20A, UC
	4 = FOUR WAY SWITCH CO = SINGLE POLE, CENTER OFF MOMENTARY CONTACT	FB	FLOOR BOX
	D = DIMMER SWITCH DS = DOOR SWITCH	© Ш	POKE THRU DEVICE
	LV = LOW VOLTAGE CONTROL SYSTEM SWITCH P = SWITCH WITH PILOT LIGHT		NEW PANELBOARD, DESIGNATION AS NOTED
	T = TIME CONTROL SWITCH (WATTSTOPPER TS-400) LT = SWITCH WITH LIGHTED TOGGLE		EXISTING PANELBOARD, DESIGNATION AS NOTED
	K = KEY OPERATED MOMENTARY CONTACT SWITCH OD = DUAL TECHNOLOGY OCCUPANCY SENSOR		SYSTEM CONTROL PANEL, TYPE AS NOTED
	OP = PASSIVE INFRARED OCCUPANCY SENSOR OU = ULTRASONIC OCCUPANCY SENSOR		ONLY RECEPTACLES INSTALLED, PROVIDE SURFACE WREMOLD 3300. WHERE RECEPTACLES AND TELE/
ELCU	EMERGENCY LIGHTING CONTROL UNIT WATTSTOPPER ELCU-200 OR BODINE BLCD-20B		METALLIC RACEWAYS SHALL BE COMPLETE, INCLUDI END PLATES, WIRING, RECEPTACLES, FITTINGS, AND
PC	PHOTO CELL		OF EXACT LENGTHS TO MATCH THE LENGTHS OF T BENCHES, AND SHELVINGS AS INDICATED ON LABO SHOP DRAWINGS SINCE THE LENGTHS SHOWN ON E
OCCUPAN	CY SENSORS		ARE ILLUSTRATIVE AND DIAGRAMATIC ONLY AND AF RACEWAY SHALL BE INSTALLED SO THAT NOTCH P REMOVING FACEPLATE SHALL BE AT BOTTOM.
PP	POWER PACK		
OS D	CEILING/PENDANT MOUNTED OCCUPANCY SENSOR		
	$ \begin{array}{rcl} - \left[1 \text{ YP. DESIGNATION} \right] \\ D &= \text{ DUAL TECHNOLOGY} \\ D &= \text{ DASSIVE INFRARED} \end{array} $		— DEVICES NOT MOUNTED IN SURFACE RACEWAY — DEVICES MOUNTED IN SURFACE RACEWAY
4	U = ULTRASONIC	ES	EMERGENCY SHUTOFF
N	WALL MOUNTED OCCUPANCY SENSOR	Ţ	TRANSFORMER
<u>RC</u>	CEILING / PENDANT MOUNTED DAYLIGHT SENSOR	TYPICAL	FIRE ALARM DESIGNATION
PLC	PLUG LOAD CONTROLLER	¢	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
		E	FIRE ALARM MANUAL PULL STATION
TYPICAL	SECURITY DEVICE DESIGNATION	Ē	COMBINATION SPEAKER/STROBE NOTIFICATION APPL
JUNCTION I INSTALLER.	BOXES ONLY. SECURITY DEVICES AND WIRING BY THE SECURITY FOR EACH TYPE OF SECURITY DEVICE, PROVIDE A UNIVERSITY	£	
SECURITY S	SYSTEM SUPPLIER) AND A 1" CONDUIT WITH PULL LINE FROM TO THE SECURITY JUNCTION BOX.	© _x	AUTOMATIC DETECTOR
XX	SECURITY SYSTEM DEVICE		<pre>—[TYP. DESIGNATION] C = CARBON MONOXIDE</pre>
			D = DUCT SMOKE DETECTOR F = THERMAL, FIXED TEMERATURE
	C = CLOSED CIRCUIT TV CAMERA CR = CARD READER		FR = THERMAL, COMBINATION RATE OF RISE PLUS FIXED TEMPERATURE
	DA = DURESS ALARM DC = DOOR CONTACTS		H = AREA HEAT DETECTOR PE = SMOKE REFRACTION, PHOTO ELECTRIC R = THERMAL RATE OF RISE
	EH = ELECTRIC DOOR HINGE ES = ELECTRIC DOOR STRIKE		S = AREA SMOKE DETECTOR
	GS = GUARD TOUR STATION HB = HOLD UP BUTTON KS = LOCAL KEY SWITCH FOR ALARM RYPASS		CONTROL MODULE
	KS = LOCAL KEY SWITCH FOR ALARM BYPASSMD = MOTION DETECTORMD = MANUAL DELEASE	TS	TEST SWITCH - COORDINATE INSTALLATION LOCATIO
	PA = PANIC SWITCH RX = REQUEST TO EXIT	AMP	AMPLIFIER
	SD = SOUND DETECTOR		
	NETWORK SWITCH		
	SECURITY CAMERA	<u>TYPICAL</u>	MASS NOTIFICATION DESIGNATION
TYPICAL	INTERCOM DESIGNATION		SPEAKER CONTROL
PROVIDE A CAN ALLOV	FULLY FUNCTIONAL INTERCOM SYSTEM SO THAT THE RECEPTIONIST	XX	COMBINATION AUDIBLE/VISUAL NOTIFICATION APPLIA
	INTERCOM STATION	TYPICAL	TELECOMMUNICATIONS DESIGNATION
MI	MASTER INTERCOM STATION	PROVIDE A	TWO GANG BOX WITH PLASTER RING FOR CONNECTION
NS	NETWORK SWITCH	SINGLE GA DEVICE WI TELECOMM	ING FACEPLATE FOR EACH TELEPHONE/DATA OR TELE TH (1) 1" CONDUIT INSTALLED FOR EACH DEVICE TO UNICATIONS CLOSET OR CABLE TRAY IN ACCESSIBLE
		SPACE. II OUTLET IS ACCOMMO	NSTALL PULL LINE IN EACH CONDUIT. WHERE A TELE PROVIDED IN SURFACE RACEWAY, EACH OUTLET SHA DATE UP TO 4 DEVICES. PROVIDE A 1" CONDULT FROM
TYPICAL PROVIDE A WEADONS	INTRUSION DETECTION (IDS) DESIGNATION FULLY FUNCTIONAL INTRUSION DETECTION SYSTEM FOR THE	SURFACE	RACEWAY TO CABLE TRAY IN ACCESSIBLE CEILING SP UNICATIONS CLOSET FOR EACH TELE/DATA OUTLET.
	JRERS REQUIREMENTS. ALL WIRING SHALL BE IN CONDUIT.	Yw	TELEPHONE OUTLET
IG2	ADVANTOR CHASSIS WITH FOC		-[TYP. DESIGNATION]
IG2	IG2 LAN	8	FLOOR MOUNTED TELEPHONE OUTLET
	KETPAD HOLD UP/DURESS	V	TELEPHONE/DATA OUTLET
NCC	NETWORK COMM CABINET		
FOC	FIBER OPTIC MEDIA CONVERTER		
SWITCH HSSI	PORT SWITCH		
PIR	WALL MOUNTED PIR		

+44 = INDICATES MOUNTING HEIGHT C = CLEAN POWERCLG = MOUNT FLUSH ON CEILINGH = HOSPITAL GRADER = DROP CORD REEL OUTLET (CEILING MOUN SS = SURGE SUPPRESSION ST = SAFETY TYPE TW = TWISTLOCK WP = WEATHER PROOFXP = EXPLOSION PROOFXXA = AMPERES (XX=RATING)PLC = PLUG LOAD CONTROLLED1/2PLC = SPLIT CONTROLLED RECEPTACLE WITH THE CONTROLLED INGLE RECEPTACLE - 125V, 2P, 3W 20A, UON JADRAPLEX RECEPTACLE - 125V, 2P, 3W TYP. DESIGNATION] PLC = 1 OF 2 DUPLEX RECEPTACLES ARE PLUG FI DUPLEX RECEPTACLE – 125V, 2P, 3W I QUAD RECEPTACLE - 125V, 2P, 3W OLATED GROUND/SURGE PROTECTIVE DUPLEX RECEPT OLATED GROUND QUADRAPLEX RECEPTACLE - 125V, JPLEX RECEPTACLE - HALF SWITCHED INGLE RECEPTACLE - 250V, 2P, 3W 20A, UON INGLE RECEPTACLE - 277V, 2P, 3W 20A, UON INGLE RECEPTACLE - 250V, 3P, 4W 20A, UON ELDING RECEPTACLE - 480V, 3P, 4W 20A, UON INGLE RECEPTACLE - 250/125V, 3P, 4W 20A, UON INGLE RECEPTACLE - 250/125V, 4P, 4W 20A, UON LOOR BOX JNCTION BOX OKE THRU DEVICE EW PANELBOARD, DESIGNATION AS NOTED KISTING PANELBOARD, DESIGNATION AS NOTED YSTEM CONTROL PANEL, TYPE AS NOTED LUMINUM SURFACE RACEWAY WITH DEVICES AS INDICANNLY RECEPTACLES INSTALLED, PROVIDE SURFACE RAC REMOLD 3300. WHERE RECEPTACLES AND TELE/DAT ROVIDE SURFACE RACEWAY EQUAL TO WIREMOLD 520 ACCIVICE SURFACE RACEWAY EQUAL TO WIREMOLD 5200 METALLIC RACEWAYS SHALL BE COMPLETE, INCLUDING E END PLATES, WIRING, RECEPTACLES, FITTINGS, AND CON DF EXACT LENGTHS TO MATCH THE LENGTHS OF THE C BENCHES, AND SHELVINGS AS INDICATED ON LABORATO SHOP DRAWINGS SINCE THE LENGTHS SHOWN ON ELECT ARE ILLUSTRATIVE AND DIAGRAMATIC ONLY AND ARE NO RACEWAY SHALL BE INSTALLED SO THAT NOTCH PROVID REMOVING FACED ATE SHALL BE AT BOTTOM MOVING FACEPLATE SHALL BE AT BOTTOM. EVICES NOT MOUNTED IN SURFACE RACEWAY EVICES MOUNTED IN SURFACE RACEWAY MERGENCY SHUTOFF ANSFORMER E ALARM DESIGNATION E ALARM AUDIBLE NOTIFICATION APPLIANCE E ALARM MANUAL PULL STATION MBINATION SPEAKER/STROBE NOTIFICATION APPLIAN E ALARM VISUAL NOTIFICATION APPLIANCE ANDELA RATING, 15CD IF NOT SHOWN JTOMATIC DETECTOR YP. DESIGNATION] C = CARBON MONOXIDED = DUCT SMOKE DETECTORF = THERMAL, FIXED TEMERATUREFR = THERMAL, COMBINATION RATE OF RISE PLUS FIXED TEMPERATURE H = AREA HEAT DETECTORPE = SMOKE REFRACTION, PHOTO ELECTRIC R = THERMAL, RATE OF RISE S = AREA SMOKE DETECTORNITORING MODULE NTROL MODULE ST SWITCH - COORDINATE INSTALLATION LOCATION PLIFIER

TYPICAL	MASS NOTIFICATION DESIGNATION
	SPEAKER CONTROL
	LOCAL OPERATING CONSOLE
Ø	COMBINATION AUDIBLE/VISUAL NOTIFICATION APPLIANCE
TYPICAL	TELECOMMUNICATIONS DESIGNATION
PROVIDE A SINGLE GAN DEVICE WITI TELECOMMU SPACE. IN OUTLET IS ACCOMMOD SURFACE R TELECOMMU	TWO GANG BOX WITH PLASTER RING FOR CONNECTION OF IG FACEPLATE FOR EACH TELEPHONE/DATA OR TELEPHONE H (1) 1" CONDUIT INSTALLED FOR EACH DEVICE TO INICATIONS CLOSET OR CABLE TRAY IN ACCESSIBLE CEILING STALL PULL LINE IN EACH CONDUIT. WHERE A TELE/DATA PROVIDED IN SURFACE RACEWAY, EACH OUTLET SHALL ATE UP TO 4 DEVICES. PROVIDE A 1" CONDUIT FROM ACEWAY TO CABLE TRAY IN ACCESSIBLE CEILING SPACE OR INICATIONS CLOSET FOR EACH TELE/DATA OUTLET.
Y w	TELEPHONE OUTLET
	-[TYP. DESIGNATION]
8	FLOOR MOUNTED TELEPHONE OUTLET

LEGENDS AND ABBREVIATIONS

ER DESIGNATION	TYPICAL	SINGLE LINE DESIGNATION
EX RECEPTACIE - $125V$ 2P 3W		NON FUSED SAFETY SWITCH
. DESIGNATION]		DISCONNECT SWITCH (SWITCHGEAR, SUBST, ETC)
20/3 = INDICATES 20A, 3 POLE RECEPTACLE		EUSED SAFETY SWITCH
+44 = INDICATES MOUNTING HEIGHT		
C = CLEAN POWER CLG = MOUNT FLUSH ON CEILING		FUSED SAFETY SWITCH (SWITCHGEAR, SUBSI, ETC)
H = HOSPITAL GRADE R = DROP CORD REEL OUTLET (CEILING MOUNTED)		
SS = SURGE SUPPRESSION ST - SAFETY TYPE		
TW = TWISTLOCK		
WP = WEATHER PROOF XP = EXPLOSION PROOF		ENCLOSED CIRCUIT BREAKER
XXA = AMPERES (XX=RATING) $PLC = PLUG QAD CONTROLLED$	<u> </u>	CIRCUIT BREAKER (SWITCHGEAR, SUBST, ETC)
2PLC = SPLIT CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE CONTROLLED	≁∕~⊡	DRAW-OUT FUSED DISCONNECT SWITCH
LE RECEPTACLE – 125V, 2P, 3W 20A, UON	≪^	DRAW-OUT CIRCUIT BREAKER
DRAPLEX RECEPTACLE – 125V, 2P, 3W	⊷≪⊡→≫−	DRAWOUT FUSE (SWITCHGEAR, SUBST, ETC)
DESIGNATION] P(C = 1 OF 2 DUPLEY RECEPTACIES ARE PLUG LOAD CONTROLLED	- « ••-	DRAWOUT FUSE
FLC - T OF Z DOFLEX RECEPTACLES ARE FLOG LOAD CONTROLLED	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	DRAWOUT CIRCUIT BREAKER (SWITCHGEAR, SUBST, ETC)
DUPLEX RECEPTACLE – 125V, 2P, 3W	<i>-</i> ≪ <u>^</u> ≫-	DRAWOUT CIRCUIT BREAKER, 600V OR LESS
QUAD RECEPTACLE – 125V, 2P, 3W	⊷⊷⊥	DRAWOUT CIRCUIT BREAKER (SWITCHGEAR, SUBST, ETC)
ATED GROUND/SURGE PROTECTIVE DUPLEX RECEPTACLE – 125V, 2P, 3W		DRAWOUT CIRCUIT BREAKER, MEDIUM VOLTAGE
ATED GROUND QUADRAPLEX RECEPTACLE – 125V, 2P, 3W		DRAWOUT CIRCUIT BREAKER WITH CL FUSES
LEX RECEPTACLE – HALF SWITCHED	- 	DRAWOUT CIRCUIT BREAKER WITH CL FUSES
LE RECEPTACLE – 250V, 2P, 3W 20A, UON		CONNECTION
LE RECEPTACLE – 277V, 2P, 3W 20A, UON	- 	UTILITY COMPANY METERING COMPARTMENT
LE RECEPTACLE – 250V, 3P, 4W 20A, UON	- 	DRAWOUT VOLTAGE TRANSFORMER
DING RECEPTACLE - 480V, 3P, 4W 20A, UON	11	CONTACTOR (NORMALLY OPEN)
LE RECEPTACLE - $250/125V$, 3P, 4W 20A, UON	ł	CONTACTOR (NORMALLY CLOSED)
LE RECEPTACLE – $250/125$ V, 4P, 4W 20A, UUN	x	THERMAL OVERLOAD RELAYS
OR BOX	$-1 + \infty -$	MOTOR STARTER
	-~+hx	COMBINATION MOTOR STARTER/BREAKER
PANELBOARD, DESIGNATION AS NOTED	- \- +kx	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
TING PANELBOARD, DESIGNATION AS NOTED	⊷ ^{لم} ⊶ا	LIGHTNING ARRESTOR
TEM CONTROL PANEL, TYPE AS NOTED		CAPACITOR
MINUM SURFACE RACEWAY WITH DEVICES AS INDICATED. WHERE	Δ	DELTA
Y RECEPTACLES INSTALLED, PROVIDE SURFACE RACEWAY EQUAL TO MOLD 3300. WHERE RECEPTACLES AND TELE/DATA INDICATED,	¥	WYE
VIDE SURFACE RACEWAY EQUAL TO WIREMOLD 5200. SURFACE ALLIC RACEWAYS SHALL BE COMPLETE, INCLUDING BASES, COVERS, DIATES WIRING RECERTACIES FITTINGS AND CONNECTIONS AND	<u>con</u>	COIL
EXACT LENGTHS TO MATCH THE LENGTHS OF THE CABINETS, WORK CHES, AND SHELVINGS AS INDICATED ON LABORATORY FURNITURE	****	POWER TRANSFORMER
P DRAWINGS SINCE THE LENGTHS SHOWN ON ELECTRICAL PLANS ILLUSTRATIVE AND DIAGRAMATIC ONLY AND ARE NOT ACCURATE.	38	VOLTAGE TRANSFORMER
EWAY SHALL BE INSTALLED SO THAT NOTCH PROVIDED FOR OVING FACEPLATE SHALL BE AT BOTTOM.	E PANEL	CURRENT TRANSFORMER
		EQUIPMENT PANEL, MCC, ETC.
	ET T	AUTOMATIC TRANSFER SWITCH
CES NOT MOUNTED IN SURFACE RACEWAY		EMERGENCY GENERATOR
RGENCY SHUTOFF		
	<u>SPD</u>	SURGE PROTECTIVE DEVICE
	М	METER
ALARM AUDIBLE NOTIFICATION APPLIANCE		
ALARM MANUAL PULL STATION		NEW WORK
ALARM VISUAL NOTIFICATION ARRUNANCE		EXISTING WORK
ALARM VISUAL NUTHICATION APPLIANCE		DEMOLITION
DMATIC DETECTOR		SINGLE LINE DEMOLITION
DESIGNATION]		
C = CARBON MONOXIDE D = DUCT SMOKE DETECTOR	TYPICAL	MECHANICAL DESIGNATION
F = THERMAL, FIXED TEMERATURE	<i>N</i>	MOTOR
FR = IHERMAL, COMBINATION RATE OF RISE PLUS FIXED TEMPERATURE	Ъ	NON FUSED SAFETY SWITCH
H = AREA HEAT DETECTOR PE = SMOKE REFRACTION, PHOTO ELECTRIC	۲	FUSED SAFETY SWITCH
R = THERMAL, RATE OF RISE S = AREA SMOKE DETECTOR		MOTOR STARTER
TORING MODULE	N	COMBINATION STARTER/CIRCUIT BREAKER
TROL MODULE		ENCLOSED CIRCUIT BREAKER
SWITCH - COORDINATE INSTALLATION LOCATION	E	VARIABLE FREQUENCY DRIVE
lfier	S _M	MANUAL MOTOR SWITCH
	S _{BSD}	BOILER SHUTDOWN SWITCH BREAK GLASS TYPE — INTEC I—EBG1—2 OR EQUAL.

TYPICAL A	BBREVIATION
A, AMP	AMPERE
ABV	ABOVE
AC	AIR CONDITIONER
ACC	ACCENT
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERES INTERRUPTING CURRENT
AL	ALUMINUM
AM	AMMETER
APPROX	APPROXIMATE
ASY	ASYMMETRIC
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AVC	AUDIO/VISUAL CONTRACTOR
AWG	AMERICAN WIRE GAGE
BATT	BATTERY
BKR	BREAKER
BLDG	BUILDING
BLK	BLACK
C CND	CONDUIT
CAR	CABINET
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CLR	CLEAR
COL	COLUMN
СОММ	COMMUNICATION
CONC	CONCRETE
CONN	CONNECTION
CONTR	CONTRACTOR
СТ	CURRENT TRANSFORMER
CU	COPPER
CW	COOL WHITE
D	DEDICATED CIRCUIT
DB	DECIBEL
DED	DEDICATED
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE - THROW
DWG(S)	DRAWING(S)
FA	FACH
FC	
FF	
EMER, EM, E	
EMI	
EO	
EQUIP	
ESB	ENERGY SAVINGS BALLAST
EWC	ELECTRIC WATER COOLER
EX, EXIST	EXISTING TO REMAIN
EXD	EXISTING TO BE DEMOLISHED
EXR	EXISTING TO BE RELOCATED
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL
FC	FOOTCANDLES
FIXT	FIXTURE
FL	FLOOR
FLA	FULL LOAD AMPS
FLUOR	FLUORESCENT

FSS

FVNR

G or GND GROUND

FT

LTG

FUSED SAFETY SWITCH

FULL VOLTAGE NON-REVERSING

FOOT OR FEET

OC

OH

Р

PB

ON CENTER

OVERHEAD

PULL BOX

POLE OR PUMP

GALV	GALVANIZED		PC	PLUMBING CONTRACTOR		
GC	GENERAL CONTRACTOR		PH	PHASE		
GEN	GENERATOR		PNL	PANEL		
GFCI or GFI	GROUND FAULT CIRCUIT I	NTERRUPTING	PP	POWER PANEL		
GFP	GROUND FAULT PROTECTI	ON	PRI	PRIMARY		
нір		Э.Г	PT	POTENTIAL TRANSFORMER		
			PVC			
	HURSEPUWER		RECEPT			
HT	HEIGHT		REF	REFERENCE		
HV	HIGH VOLTAGE		REFL	REFLECTOR		
HVAC	HEATING, VENTILATING, &	AIR CONDITIONING	REQ	REQUIRED		
HZ	HERTZ		RGS	RIGID GALVANIZED STEEL CONDUIT		
IG	ISOLATED GROUND		RM	ROOM		
IN	INCH		RS	RAPID START		
INCAN	INCANDESCENT		SCH	SCHEDULE		
INTL'K	INTERLOCK		SEC	SECONDARY		
JB	JUNCTION BOX		SECT	SECTION		
ĸv			SHT	SHEET		
KV/A			SPD			
	KILUVULT AMPERES REAC		5501	SINGLE FOLE DOUBLE - THROW		
KW	KILOWATI		SPEC	SPECIFICATION		
KWH	KILOWATT-HOUR		SPST	SINGLE POLE SINGLE - THROW		
LA	LIGHTNING ARRESTER		SS	SUBSTATION		
LT	LIGHT		SSB	SOLID STATE BALLAST		
LTG	LIGHTING		STD	STANDARD		
LOC	LOCAL OPERATING CONSC	DLE	SW	SWITCH		
LV	LOW VOLTAGE		SWBD	SWITCHBOARD		
MATV	MASTER ANTENNA TELEVI	SION	TEL	TELEPHONE		
мс	MECHANICAL CONTRACTOR	R	TL	TWIST LOCK		
мс	METAL - CLAD CABLE		TT	TWIN TUBE		
MCB	MAIN CIRCUIT REFAUER		TYP	TYPICAI		
MCC						
	MAIN DISTRIBUTION DUT	I				
MDP	MAIN DISTRIBUTION PANEL	L	UG			
MFR	MANUFACTURE		UH	UNIT HEATER		
мн	MANHOLE		UL	UNDERWRITERS LABORATORIES		
MH	METAL HALIDE		UON	UNLESS OTHERWISE NOTED		
MIN	MINIMUM		UPS	UNINTERRUPTABLE POWER SUPPLY		
MISC	MISCELLANEOUS		UV	UNIT VENTILATOR		
MLO	MAIN LUGS ONLY		V	VOLTS		
MOD	MOTOR OPERATED DAMPE	R	VCB	VACUUM CIRCUIT BREAKER		
MOV	MOTOR OPERATED VALVE		VM	VOLTMETER		
MTD	MOUNTED		VP	VAPOR PROOF		
MTC			VT			
MIG	MOUNTING		V I			
MTS	MANUAL TRANSFER SWITC	CH	W	WIRE		
MV	MEDIUM VOLTAGE		W	WATT		
NAC	NOTIFICATION APPLIANCE	CIRCUIT	WP	WEATHERPROOF		
NC	NORMALLY CLOSED		ww	WARM WHITE		
NEUT	NEUTRAL		XFMR	TRANSFORMER		
NFSS	NON FUSED SAFETY SWIT	CH				
NIC	NOT IN CONTRACT					
NI						
NO or #	NUMBER	STANI	JARD	MOUNTING HEIGHTS		
NTS	NOT TO SCALE	JIANL		MOONTING TILIGHTS		
		9 BELOW				
		FINISHED CEILING	-	WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT).	E ALARM HORNS,	
		FINISHED CEILING		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT).	E ALARM HORNS,	
		FINISHED CEILING 12" BELOW FINISHED CEILING		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTI	E ALARM HORNS, ED LIGHT HEADS	
		FINISHED CEILING 12" BELOW FINISHED CEILING		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTI	E ALARM HORNS, ED LIGHT HEADS	
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6"		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING	E ALARM HORNS, ED LIGHT HEADS FIXTURES	
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6"		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE	E ALARM HORNS, ED LIGHT HEADS FIXTURES	BID SET
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8'		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE	E ALARM HORNS, ED LIGHT HEADS FIXTURES	BID SET 08/26/2024
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8'		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM	E ALARM HORNS, ED LIGHT HEADS FIXTURES	BID SET 08/26/2024 CONSTRUCTION 07/31/2024
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8'		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM	E ALARM HORNS, ED LIGHT HEADS FIXTURES	B ID SET 08/26/2024 C ONSTRUCTION 07/31/2024 C ONSTRUCTION
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8' CENTER ABOVE DOOR OR WINDOW OPENING		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS	E ALARM HORNS, ED LIGHT HEADS FIXTURES	BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8' CENTER ABOVE DOOR OR WINDOW OPENING		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS	E ALARM HORNS, ED LIGHT HEADS FIXTURES	BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8' CENTER ABOVE DOOR OR WINDOW OPENING 6'-6"		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS	E ALARM HORNS, ED LIGHT HEADS FIXTURES	B ID SET 08/26/2024 C ONSTRUCTION 07/31/2024 C ONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8' CENTER ABOVE DOOR OR WINDOW OPENING 6'-6" 6' -7"		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS	E ALARM HORNS, ED LIGHT HEADS FIXTURES	BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8' CENTER ABOVE DOOR OR WINDOW OPENING 6'-6" 6'-3"		 WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS TOP OF BACK-MOUNTED WALL EXIT FIXTURES (DOES NOT INCLUDE INSTALLATION ABOVE DOORS) 	E ALARM HORNS, ED LIGHT HEADS FIXTURES	BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024 CONSTRUCTION DC
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO 8' CENTER ABOVE DOOR OR WINDOW OPENING 6'-6" 6'-3" 6'-0"		WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS TOP OF BACK-MOUNTED WALL EXIT FIXTURES (DOES NOT INCLUDE INSTALLATION ABOVE DOORS) TOP OF HIGHEST ELECTRICAL SAFETY DISCOMMENTS	E ALARM HORNS, ED LIGHT HEADS FIXTURES	BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024 Construction Do
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO $8'CENTER ABOVE DOOROR WINDOW OPENING6'-6"6'-3"6'-0"$		 WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS TOP OF BACK-MOUNTED WALL EXIT FIXTURES (DOES NOT INCLUDE INSTALLATION ABOVE DOORS) TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT S MAGNETIC STARTERS AND CONTACTORS (MINIMUM 15 NOTES: LAPOSE EVENT WAY DE MOUNTED STATUTES 	E ALARM HORNS, ED LIGHT HEADS FIXTURES LIGHTING S WITCHES 5" AFF) F A'	B ID SET 08/26/2024 C ONSTRUCTION 07/31/2024 C ONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024 C onstruction Do
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO $8'CENTER ABOVE DOOROR WINDOW OPENING6'-6"6'-3"6'-0"$		 WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS TOP OF BACK-MOUNTED WALL EXIT FIXTURES (DOES NOT INCLUDE INSTALLATION ABOVE DOORS) TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT S MAGNETIC STARTERS AND CONTACTORS (MINIMUM 15 NOTES: LARGE EQUIPMENT MAY BE INSTALLED ABOV HOWEVER, BOTTOM NOT LESS THAN 15" AFF. COOR 	E ALARM HORNS, ED LIGHT HEADS FIXTURES IGHTING S" AFF) E 6'; EDINATE	B ID SET 08/26/2024 C ONSTRUCTION 07/31/2024 C ONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024 Construction Do
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO $8'CENTER ABOVE DOOROR WINDOW OPENING6'-6"6'-3"6'-0"$		 WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNT PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS TOP OF BACK-MOUNTED WALL EXIT FIXTURES (DOES NOT INCLUDE INSTALLATION ABOVE DOORS) TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT S MAGNETIC STARTERS AND CONTACTORS (MINIMUM 15 NOTES: LARGE EQUIPMENT MAY BE INSTALLED ABOV HOWEVER, BOTTOM NOT LESS THAN 15" AFF. COOR WITH ENGINEER 	E ALARM HORNS, ED LIGHT HEADS FIXTURES IGHTING S WITCHES " AFF) E 6'; EDINATE	BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024 Construction Do
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO $8'CENTER ABOVE DOOROR WINDOW OPENING6'-6"6'-3"6'-0"4'-6"$		 WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS TOP OF BACK-MOUNTED WALL EXIT FIXTURES (DOES NOT INCLUDE INSTALLATION ABOVE DOORS) TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT S MAGNETIC STARTERS AND CONTACTORS (MINIMUM 15 NOTES: LARGE EQUIPMENT MAY BE INSTALLED ABOV HOWEVER, BOTTOM NOT LESS THAN 15" AFF. COOR WITH ENGINEER WALL MOUNTED ELECTRICAL DEVICES: WALL MOUNTED PAY TELEPHONES (TOP OF COIN SLOT), FIRE FIGHTED 	E ALARM HORNS, ED LIGHT HEADS FIXTURES LIGHTING S WITCHES S MITCHES S E 6'; EDINATE D TELEPHONE, R'S PHONE JACK	BID SET 08/26/2024 CONSTRUCTION 07/31/2024 CONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024 Construction Do
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO $8'CENTER ABOVE DOOROR WINDOW OPENING6'-6"6'-3"6'-0"4'-6"3'-10"$		 WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS TOP OF BACK-MOUNTED WALL EXIT FIXTURES (DOES NOT INCLUDE INSTALLATION ABOVE DOORS) TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT S MAGNETIC STARTERS AND CONTACTORS (MINIMUM 15) NOTES: LARGE EQUIPMENT MAY BE INSTALLED ABOV HOWEVER, BOTTOM NOT LESS THAN 15" AFF. COOR WITH ENGINEER WALL MOUNTED ELECTRICAL DEVICES: WALL MOUNTED WALL MOUNTED ELECTRICAL DEVICES INCLUDING: 1101 	E ALARM HORNS, ED LIGHT HEADS FIXTURES LIGHTING S WITCHES 5" AFF) 7E 6'; EDINATE D TELEPHONE, R'S PHONE JACK HT SWITCHES.	B ID SET 08/26/2024 C ONSTRUCTION 07/31/2024 C ONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024 C onstruction Do
		FINISHED CEILING 12" BELOW FINISHED CEILING 8'-6" 6'-8" TO $8'CENTER ABOVE DOOROR WINDOW OPENING6'-6"6'-3"6'-0"4'-6"3'-10"$		 WALL-MOUNTED CLOCKS, PROGRAM BELLS, AND FIRE P.A. HORN SPEAKERS (TOP OF UNIT). BATTERY LIGHTING UNITS AND REMOTE WALL MOUNTED PENDANT MOUNTED INDUSTRIAL AND STRIP LIGHTING FIRE ALARM STROBE, COMBINATION HORN/STROBE RECEPTACLES IN COMMUNICATIONS ROOM WARNING AND SIGNALING FIXTURES/SIGNS TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL OR POWER PANELBOARDS AND TELEPHONE CABINETS TOP OF BACK-MOUNTED WALL EXIT FIXTURES (DOES NOT INCLUDE INSTALLATION ABOVE DOORS) TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT S MAGNETIC STARTERS AND CONTACTORS (MINIMUM 15 NOTES: LARGE EQUIPMENT MAY BE INSTALLED ABOV HOWEVER, BOTTOM NOT LESS THAN 15" AFF. COOR WITH ENGINEER WALL MOUNTED ELECTRICAL DEVICES: WALL MOUNTED PAY TELEPHONES (TOP OF COIN SLOT), FIRE FIGHTED WALL MOUNTED ELECTRICAL DEVICES INCLUDING: LIG MANUAL MOTOR STARTERS, LINE VOLTAGE THERMOST 	E ALARM HORNS, ED LIGHT HEADS FIXTURES IGHTING S WITCHES S' AFF) E 6'; EDINATE D TELEPHONE, R'S PHONE JACK HT SWITCHES, TATS, INTERCOM, CCESSIBLE	B ID SET 08/26/2024 C ONSTRUCTION 07/31/2024 C ONSTRUCTION 04/15/2024 DESIGN DEVELOF 02/27/2024 C onstruction Do
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<u>GENERAL NEW WORK NOTES</u>

1. IN ROOMS 102 AND 103, ALL DEVICES AND CONDUIT SHALL BE INSTALLED A MINIMUM OF 12" ABOVE THE GARAGE DOOR HEIGHT.

<u>NEW WORK NOTES</u>

1 UNDER BASE BID #1, PROVIDE CONDUIT AND WIRING FROM THE PANELBOARD FOR ALL BASE BID #2 CIRCUITS. CONDUITS SHALL STUB INTO STORAGE ROOM 103 AND WIRING SHALL TERMINATE INTO JUNCTION BOXES. ALL JUNCTION BOXES SHALL BE LABELED WITH CIRCUIT INFORMATION.

1 FIRST FLOOR NEW WORK POWER PLAN - EAST 1/4" = 1'-0"

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<u>GENERAL NEW WORK NOTES</u>

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1. DUCT DETECTOR TEST SWITCHES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. COORDINATE FINAL LOCATION IN THE FIELD WITH THE OWNER.

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<u>NEW WORK NOTES</u>

1 UNDER BASE BID #1, PROVIDE CONDUIT AND WIRING INSTALLED TO THE AREA OF THE FUTURE RTU-4. CIRCUIT SHALL TERMINATE INTO JUNCTION BOX BELOW THE ROOF FOR FUTURE EXTENSION.

1 <u>ROOF NEW WORK PLAN</u> 1/8" = 1'-0"

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3 NEW WORK CONDUIT SECTION 2 1/4" = 1'-0"

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GENERAL NOTES: WIRING DIAGRAM IS A TYPICAL DETAIL FOR THE PROJECT. REFER TO DRAWINGS FOR FINAL QUANTITY OF DEVICES IN EACH ROOM.

TYPICAL LIGHTING CONTROL WIRING DIAGRAMS (BASED ON WATTSTOPPER) E500 SCALE: NOT TO SCALE

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- 1 INSTALL GROUNDED (NEUTRAL) CONDUCTOR AS INDICATED ON ELECTRICAL SINGLE LINE.
- (2) INSTALL 2/0 GROUNDING ELECTRODE CONDUCTOR,
- 3 INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
- (4) BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER.
- 5 EXISTING/EXTENDED GROUNDED (NEUTRAL) CONDUCTOR AS INDICATED ON ELECTRICAL SINGLE LINE.
- 6 INSTALL 2/0 BONDING JUMPER.
- 7 INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.
- 8 INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
- 9 INSTALL A COPPER GROUNDING BAR IN MAIN TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED 4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
- (10) INSTALL 2/0 BONDING CONDUCTOR.

GENERAL NOTES

- 1. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
- 2. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
- 3. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66
- 4. INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.
- 5. BOND HOT AND COLD WATER PIPING SYSTEMS.

	GROUNDING BUS GENERAL NOTES:	DESIGN DEVELO
1.	. REFER TO GROUNDING DETAIL AND FLOOR PLANS FOR QUANTITIES AND LOCATIONS.	02/27/2024
2.	. GROUND BAR SHALL BE SIZED PER NUMBER OF GROUND CONNECTIONS AT GROUND BAR PLUS 20% FOR FUTURE CONNECTIONS.	Construction D
	5 GROUNDING BUS DETAIL E501 SCALE: NOT TO SCALE	
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	VERIFY SCALE BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:	COMMON DEPARTN D.G.S. PROJECT NO. DGS C- BUILDI BIDDLE
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	VERIFY SCALE BAR IS ONE (1) INCH LONG O 1 IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	COMMON DEPARTN D.G.S. PROJECT NO. DGS C- BUILDI BIDDLE
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3. THE ESS ITEM HAS BEEN APPROVED BY THE DEPARTMENT AS A PROPRIETARY ITEM. NO OTHER ITEM WILL BE ACCEPTED. SECTION 9.6 AND 9.7 OF THE GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT DOES NOT APPLY TO THE ABOVE ITEM. PROPRIETARY SYSTEM VENDOR CONTACT: PETER LEWIS

SUMMIT FIRE & SECURITY plewis@summitfiresecurity.com

- WITH PROPRIETARY VENDOR. 2. COORDINATE ALL COMPONENTS, LAYOUT, WIRING, POWER REQUIREMENTS, ETC. WITH PROPRIETARY VENDOR.
- ELECTRONIC SECURITY SYSTEM (ESS) RISER NOTES: 1. DEVICE QUANTITY SHALL BE AS SHOWN ON THE RISER AND THE FLOOR PLANS. COORDINATE FINAL QUANTITIES
- INTRUSION DETECTION SYSTEM RISER DIAGRAM E501 SCALE: NOT TO SCALE

ADVANTOR INTRUSION DETECTION SYSTEM (IDS)

- REQUIREMENTS, ETC. WITH PROPRIETARY VENDOR. 3. THE IDS ITEM HAS BEEN APPROVED BY THE DEPARTMENT AS A PROPRIETARY ITEM. NO OTHER ITEM WILL BE ACCEPTED. SECTION 9.6 AND 9.7 OF THE GENERAL CONDITIONS TO THE CONSTRUCTION CONTRACT DOES NOT APPLY TO THE ABOVE ITEM. PROPRIETARY SYSTEM VENDOR CONTACT: EMILY A STAGGS DIRECTOR OF SALES AND DESIGN ADVANTOR SYSTEMS CORPORATION STAGGS@ADVANTOR.COM 407-926-6929 OFFICE 407-375-3518 CELL
- 1. DEVICE QUANTITY SHALL BE AS SHOWN ON THE RISER AND THE FLOOR PLANS. COORDINATE FINAL QUANTITIES WITH PROPRIETARY VENDOR. 2. COORDINATE ALL COMPONENTS, LAYOUT, WIRING, POWER

INTRUSION DETECTION SYSTEM (IDS) RISER NOTES:

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07/01/2021

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<u>GENERAL NOTES:</u>

1. REFER TO PANEL SCHEDULES FOR ADDITIONAL CONDUIT AND WIRING SIZING.

DEMOLITION NOTES:

1 REMOVE EXISTING METER. REMOVE EXISTING CURRENT TRANSFORMERS IN THE JUNCTION BOX AND ALL CONDUIT AND WIRING ASSOCIATED WITH METER.

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6(3	00				
CIR NO		FEE			
	No.	WIRE	GND	CONDUIT	Notes
2 4	4	1/0	6	2"	
6					
8 10	3	8	10	3/4"	
12					
14 16	3	8	10	3/4"	
18					
20					
24					
26					
28					
30					

Breaker Poles:	M 7	LO '2				
AD DESCRIPTION	CIR		FEE	DER D	ΑΤΑ	
		No.	WRE	GND	CONDUIT	Notes
	2 4 6	3	12	12	3/4"	
EM FOR MDF ROOM 123	8 10	2	12	12	3/4"	
/IP RM 120	12	2	12	12	3/4"	
WH-1 - MECH RM 111	14	2	12	12	3/4"	
ROOF	16	2	12	12	3/4"	
	18 20 22					
	24					
	26					
	28					
	30					
	32					
OR LTS	34 36	2	10	10	3/4"	
ORRIDOR 108 & 109 RECEPTS	38	2	12	12	3/4"	
H 111 RECEPTS	40	2	12	12	3/4"	
PTS	42	2	12	12	3/4"	
RECEPT	44	2	12	12	3/4"	
PTS	46	2	12	12	3/4"	
EPT	48	2	10	10	3/4"	
	50	2	10	10	3/4"	
	52	2	12	12	3/4"	
EPI	54	2	12	12	3/4"	
	56	2	12	12	3/4	
	58					
	60					
	62					
	66					
	68					
	70					
	72					
	1					

lker	М	LO				
	7	2				
ESCRIPTION	CIR		FEE	DER D	ΑΤΑ	
		No.	WIRE	GND	CONDUIT	Notes
TIPURPOSE ROOM 102	2	2	10	10	3/4"	
RAGE ROOM 103	4	2	10	10	3/4"	
WEAPONS 105	6	2	10	10	3/4"	
	。 10	2	10	10	3/4"	
	12	2	10	10	3/4"	
	14					
	18					
	20 22	3	4	6	1-1/4"	
	24					
	26 28					
	30 32	3	12	12	3/4"	
	34					
XEPTS	36	2	10	10	3/4"	
04 105	30 40	2	12	12	3/4"	
	42	_				
	44					
	46 48					
	50					
	52					
	54					
	วช 58					
	60					
	62					
	64					
	68 68					
	70					
	72					

	BID SET 08/26/2024 CONSTRUCTION D 07/31/2024 CONSTRUCTION D 04/15/2024 DESIGN DEVELOPN 02/27/2024 Construction Doc
	711
	COMMONV DEPARTM
	D.G.S. PROJECT No.
VERIFY SCALE	BUILDIN
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:	BIDDLE
0 1	
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY	
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.	DRAWN BY DA TB (CHECKED BY SC TB

BID SET 08/26/2024		DESIGN DEVELOPMENT 01/26/2024
CONSTRUCTION 07/31/2024	DOC UMENTS REVISED	
CONSTRUCTION 04/15/2024	DOCUMENTS	
DESIGN DEVELC 02/27/2024	PMENI-REVISED	
Construction D	RECORD R locument - August	26, 2024
		PROFESSIONAL
		TIMOTHY PANYOR ENGINEER No. 087419 YSYLVA
ZIN	MMERMA	TIMOTHY PANY ENGINEER No. 057419 NSYLY SIGNATURE DATE ARCHITECTURE + PROJECT MANAGEMENT
ZIN COMMON DEPARTN	MMERMA WEALTH (WENT OF GI HARRISBURG, P	Image: Signature Date Signature Date Image: Signature Da
ZIN COMMON DEPARTN D.G.S. PROJECT No. DGS C-	MMERMA WEALTH O WEALTH O HARRISBURG, P	Image: Signature Date No. 087419 Date SIGNATURE Date No. 087419 Date
ZIN COMMON DEPARTI DGS C- BUILDI BIDDLE	MMERMA WEALTH (MENT OF GI HARRISBURG, P 0961–0(ING 237 AIR GU	INTERIORATORE DATE
ZIN COMMON DEPARTI DGS C- BUILDI BIDDLE	WEALTH ON WEALTH ON HARRISBURG, P 0961–00 ING 237 AIR GU HORSHAM,	INCLUSION OF THE PANY OF THE PROJECT MANAGEMENT DATE
ZIN COMMON DEPARTI DGS C- BUILDI BIDDLE	MMERMA WEALTH O MENT OF GI HARRISBURG, P 0961–00 ING 237 AIR GU HORSHAM, SCHE	INDETINET DATE ENGINEETT NO. 057419 DATE
ZIN COMMON DEPARTI DGS C- BUILD BIDDLE	MMERMA WEALTH (MENT OF G HARRISBURG, P 0961-0(ING 237 AIR GU HORSHAM, SCHE DATE 08/26/2024	INDETINET DATE INDETINE THE INGINEET DATE SIGNATURE DATE