

CITY OF CHARLESTON KANAWHA COUNTY, WEST VIRGINIA CHARLESTON POLICE DEPARTMENT RENOVATION

ADDENDUM #1 October 8, 2021

THRASHER PROJECT #010-10145

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Thursday, October 7, 2021 on the above-referenced project, a copy of the sign in sheet is included in this Addendum. The following are clarifications and responses to questions posed by contractors for the above reference project.

Α. **GENERAL**

None

В. **SPECIFICATIONS**

None

C. **DRAWINGS**

The plans have had the word Preliminary removed from this.

D. **QUESTIONS AND RESPONSES**

None on this Addendum

E. **CLARIFICATIONS**

None

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 2:00 p.m. on Thursday, October 21, 2021 at the City Manager's Office located at 501 Virginia Street, East, Room 101 Charleston, WV 25301. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

Philip M. Freeman, Architect Project Manager



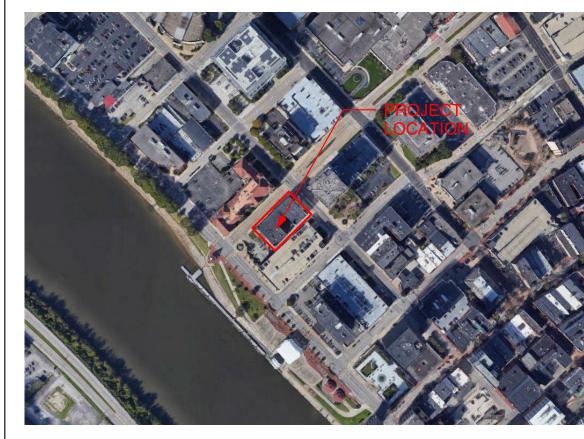
CITY OF CHARLESTON KANAWHA COUNTY, WEST VIRGINIA CHARLESTON POLICE DEPARTMENT RENOVATION

PRE-BID CONFERENCE

Thursday, October 1, 2021

Thrasher Project #010-10145

Name	Representing	Phone #	Email Address
CHRIS SHAW	AGSTEN	304-343-5400	CShaw @agsten construction, com
Mathew Willis	Danhill Construction (o.	304-719-1450	Matthew-willis @ danbill construction 201
Aller CARR	Swope Construction	304-325-8146	achildress @Swope Co. Com
CHRIS SAMPLES	1BEW 466	304-342-0800	CHRISS@IBEW 466. ORG
TAITEGALETTO	START to FINISH CONSTRUCTION	304-786-0158	szfconstruction @ yahoo. com
Tom Simms	BBL CARLTON, UR	304-345-1300	tsimms@bblcarlton.com



CONSTRUCTION DOCUMENTS DRAWINGS FOR

City of Charleston - Police Renovations

Charleston, West Virginia

SEPTEMBER 29, 2021

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ED4.00	SYSTEMS DEMOLITION PLAN
E2.00	POWER PLAN
E3.00	LIGHTING PLAN

PROJECT INFORMATION

VICINITY MAP

PROJECT DATA

INTERIOR RENOVATION OF OFFICE SPACE.

IBC CONSTRUCTION TYPE: II-B IBC OCCUPANCY TYPE: (B) BUSINESS NFPA CONSTRUCTION TYPE: II (000) NFPA OCCUPANCY GROUP: (B) BUSINESS FULLY SPRINKLED: NO

TOTAL OCCUPANCY AREA: 1,331 SF

GENERAL CODE COMPLIANCES

2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL PLUMBING CODE 2015 INTERNATIONAL MECHANICAL CODE 2018 NFPA 101 - LIFE SAFETY CODE 2017 NFPA 70 - NATIONAL ELECTRIC CODE 2017 ICC A117.1 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

ASHRAE 90.1-2010 ENERGY STANDARD FOR BUILDINGS WV STATE FIRE CODE - ADOPTED AUG. 1, 2020

WV STATE BUILDING CODE - ADOPTED AUG 1, 2020

OWNER INFORMATION



THE CITY OF CHARLESTON **501 VIRGINIA STREET EAST** CHARLESTON, WV 25301 304.348.8000 JONATHAN T. STORAGE, ESQ. CITY MANAGER

CONSULTANT INFORMATION

600 WHITE OAKS BLVD. BRIDGEPORT, WV 26330

PROJECT ARCHITECT: PHILIP M. FREEMAN ARCHITECT WV #3689 PFREEMAN@THETHRASHERGROUP.COM 304.423.5289

CIVIL

ARCHITECTURE

PROJECT MANAGER: KEN SMITH KESMITH@THETHRASHERGROUP.COM 304.343.7601

PROJECT NUMBER:010-10145





FOR AGENCY REVIEW	DATE:	BY:
FOR BIDDING	DATE:	BY:
FOR CONSTRUCTION	DATE:	BY:

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STANDARD ABBREVIATIONS

STANDARD DRAWING SYMBOLS

<u> </u>	<u>NDARD ABBREVIA I</u>	<u>IONS</u>		<u>STANDARL</u>	<u>) DRAWING S</u>
ABV	ABOVE	MAT'L	MATERIAL		
ACT	ACOUSTIC CEILING TILE	MAX	MAXIMUM	BUILDING SECTION	
۸D	AREA DRAIN	MCJ	MASONRY CONTROL JOINT	BUILDING SECTION	A101 A101
\FF	ABOVE FINISHED FLOOR	MDF	MEDIUM DENSITY/ FIBERBOARD		
ALT	ALTERNATE	MECH	MECHANICAL		
ALUM	ALUMINUM	MFR	MANUFACTURER	WALL SECTION	√ 1
ANOD	ANODIZED	MIN	MINIMUM	WALL SESTION	A101
APPROX	APPROXIMATELY	MISC	MISCELLANEOUS		
ARCH	ARCHITECTURAL(TECT)	MO	MASONRY OPENING		Ref
AWRB	AIR & WATER - RESISTIVE BARRIER	MOS	MANUALLY OPERATED SHADE		
BIT	BITUMINOUS	MP	METAL PANEL	EXTERIOR ELEVATION	
BLDG	BUILDING	MR	MOISTURE-RESISTANT	EXTERIOR ELEVATION	
BLK	BLOCK BELOW	MTD MTL	MOUNTED METAL		
BLW BOF	BOTTOM OF FOOTING	NC	NOISE CRITERIA		
BOF BRG	BEARING	NIC	NOT IN CONTRACT		1
BRK	BRICK	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
).l	CONTINUOUS INSULATION	NO	NUMBER	INTERIOR ELEVATION	
DJ DJ	CONTROL JOINT	NOM	NOMINAL		
CL	CENTER LINE	NTS	NOT TO SCALE		
CLG	CEILING	OC	ON CENTER		
CPT	CARPET	ОН	OVERHEAD OR OPPOSITE HAND	WALL TAG	1i
CT	CERAMIC TILE	ORD	OVERFLOW ROOF DRAIN	Will Into	
СТВ	CERAMIC TILE BASE	OSB	ORIENTED STRAND BOARD		
CMU	CONCRETE MASONRY UNIT	PERF	PERFORATED		
COL	COLUMN	PLT	PLATE	DOOR TAG	(101)
COMP	COMPACTED	PLAM	PLASTIC LAMINATE		
CONC	CONCRETE	PLYWD	PLYWOOD		
CONT	CONTINUOUS	PR TRTD	PRESSURE TREATED	WINDOW TAG	<u>1t</u>]
DEMO	DEMOLITION	PT	PAINT		
OIA	DIAMETER	PTD	PAINTED		
NC	DOWN	QTY	QUALITY		Room Name
DR	DOOR	R	RADIUS OR RISER	ROOM TAG	101
OS	DOWNSPOUT	RB	RUBBER BASE		
D/W	DISHWASHER	RCP	REFLECTED CEILING PLAN		
DWG	DRAWING	RD	ROOF DRAIN	MATERIAL TAG	?
ĒA	EACH	REFG	REFRIGERATOR		
<u> </u>	EXPANSION JOINT	REQ'D	REQUIRED		^
ELEV	ELEVATOR ELEVATION	RM RO	ROOM ROUGH OPENING	REVISION TAG	1
EQ	EQUAL	RTU	ROOF TOP UNIT		
EXP	EXPANSION	SD	SMOKE DETECTOR		_
EXT	EXTERIOR	SECT	SECTION	PAINT TAG	1
EXIST	EXISTING	SF	SQUARE FEET		
	FINISHED FLOOR	SHWR	SHOWER		
FE	FINISHED FLOOR ELEVATION	SHT	SHEET	ACCESSORY TAG	1
EC	FIRE EXTINGUISHER CABINET	SHTHG	SHEATHING		
FND	FOUNDATION	SIM	SIMILAR		
FOIC	FURNISHED BY OWNER INSTALLED BY	SOG	SLAB ON GRADE	REFERENCE NOTE TAG	1
	CONTRACTOR	SPEC	SPECIFICATION OR SPECIFIED		\diamond
RP	FIBERGLASS REINFORCED PLASTIC	SPFI	SPRAY FOAM INSULATION		
RT	FIRE-RATEARDANT TREATED	SPKR	SPEAKER	GENERAL SURFACE	
-T	FOOT OR FEET	SQ	SQUARE	CONSTRUCTION NOTE	
TG	FOOTING	SS	SOLID SURFACE OR STAINLESS STEEL		
GALV	GALVANIZED	STC	SOUND TRANSMISSION COEFFICIENT		
GC	GENERAL CONTRACTOR	STD	STANDARD	SPECIFIC	
GCT	GLAZED CERAMIC TILE	STL	STEEL	CONSTRUCTION NOTE	
GL DD	GLAZING OR GLASS	STOR	STORAGE		
SR SMB	GRADE(ING) GYPSUM WALL BOARD	STRUCT SUSP	STRUCTURE OR STRUCTURAL SUSPENDED		
GWB HB	HOSE BIB (CONNECTION)	T & G	TONGUE AND GROOVE	SPOT ELEVATION	
HC	HOLLOW CORE	TBD	TO BE DETERMINED	or or elevation	
H/C	HANDICAPPED	TOF	TOP OF FOOTING		
HM	HOLLOW METAL	TOM	TOP OF MASONRY		
HORIZ	HORIZONTAL	TOR	TOP OF ROOF	STRUCTURAL	(0)— – —
·R	HOUR	TOS	TOP OF STEEL	COLUMN GRID LINE	
НT	HEIGHT	TYP	TYPICAL		
HVAC	HEATING, VENTILATION, AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE		
HVT	HOMOGENEOUS VINYL TILE	UTIL	UTILITY	DOOD AND FDAME	
ВС	INTERNATIONAL BUILDING CODE	VB	VAPOR BARRIER	DOOR AND FRAME	
N	INCH(ES)	VCT	VINYL COMPOSITION TILE		
NSUL	INSULATION	VEST	VESTIBULE		
NT	INTERIOR	VERT	VERTICAL	EXISTING DOOR AND	
IAN/JC	JANITOR/JANITOR'S CLOSET	VIF	VERIFY IN FIELD	FRAME	
IT	JOINT	VET	VINYL ENHANCED TILE		
_AV	LAVATORY	VSF	VINYL SHEET FLOORING		
F	LINEAR FEET	VR	VAPOR RETARDER	DENOTED ASSOCI	
.KR	LOCKER	W/	WITH	DENOTES ABOVE,	
TG	LIGHTING	W/OUT	WITHOUT	BELOW, AND BEHIND	
.VR	LOUVER	WB	WOOD BASE		
_VT	LUXURY VINYL TILE	WC	WATER CLOSET		
.VL	LAMINATED VENEER LUMBER	WD	WAINSCOT	DENOTES EXISTING	
MAS	MASONRY	WA WT	WAINSCOT WALL COVERING/TEXTILE	CONSTRUCTION TO	
		VVI	WALL COVENING/TEATILE	BE DEMOLISHED	

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THE THRASHER GROUP, INC.

City of Charleston - Police Office Renovations 501 Virginia Street East Charleston, WV 25301

CHECKED: TTG DATE: 09/29/21 APPROVED: TTG DATE: 09/29/21

PROJECT No.

GENERAL INFORMATION

G1.01

600 WHITE OAKS BLVD.

P.O. BOX 940 BRIDGEPORT, WV 26330

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	DEMOLITION NOTES				
NOTE#	DESCRIPTION				
1	REMOVE AND DISPOSE OF LAVATORY/SINK				
2	REMOVE EXISTNG WALL FOR NEW DOOR				
3	REMOVE EXISTING STOREFRONT, WINDOW BLINDS, AND ASSOCIATED MASONRY				
4	REMOVE AND DISPOSE OF FLOORING, BASE, AND ADHESIVE				
5	REMOVE AND DISPOSE OF WALL PANELS, PLYWOOD PANELS, WOOD PANELING, STUD FRAMING AND ASSOCIATED TRIM	\top			
6	REMOVE AND DISPOSE OF GLAZED FACED CMU				
7	REMOVE AND DISPOSE OF SHELVING				
8	REMOVE AND DISPOSE OF CEILING, CEILING GRID, LIGHT FIXTURE, SPEAKERS, FIRE DETECTION DEVICES, DIFFUSERS, GRILLES				
9	REMOVE DOOR, DOOR FRAME, AND DOOR HARDWARE				
10	REMOVE WINDOW STOOL AND ANY ASSOCIATED DAMAGED STOOL FRAMING				
11	REMOVE EXISTING INTERIOR PERIMETER SEALANT/CAULKING				
DEMO	LITION PLAN LEGEND				
	PROJECT BOUNDARY EXISTING TO REMAIN EXISTING TO BE DEMOLISHED EXTENTS TO BE DEMOLISHED				DESCRIPTION
	ITEMS TO BE RELOCATED				DATE
	OF THE DEMOLITION PLANS IS TO SHOW THE GENERAL NATURE OF THE DEMOLITION				ВҮ
SCOPE. THE	GENERAL CONTRACTOR IS RESPONSIBLE FOR VISITING THE JOB SITE AND VERIFYING THE				NO.

EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHOULD NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

-REMOVE ALL EXISTING CONSTRUCTIONS AND FINISHES NECESSARY FOR THE COMPLETION OF THE WORK AS DEPICTED ON THE DRAWINGS. INCLUDING BUT NOT LIMITED TO, ITEMS SHOWN ON THE PLANS WITH DASHED LINES. NECESSARY DISCONNECTS AND ALTERATIONS TO EXISTING MECHANICAL, ELECTRICAL, FIRE PROTECTION AND ALARM SYSTEMS SHALL BE INCLUDED.

-PATCH AS REQUIRED ALL CONSTRUCTIONS TO REMAIN IN ACCORDANCE WITH THE CONTRACT DRAWINGS. WHERE CONTRACTOR IS DESIGNATED TO MAKE REMOVALS, DISPOSAL OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY WITH OWNER, THE DISPOSAL AND REMOVAL OF ANY COMPONENTS OF SALVAGEABLE VALUE.

-ALL REMOVALS AND SALVAGE: SALVAGED ITEMS SHALL FIRST BE OFFERED TO THE OWNER. SALVAGED ITEMS THAT ARE NOT RETAINED BY THE OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR & SHALL BE LEGALLY DISPOSED OF OFF SITE.

-PATCH AND REPAIR ALL SURFACES TO ACCEPT NEW FINISHES.

-PATCH AND REPAIR FLOOR SUBSTRATE AS REQ'D TO ACCEPT NEW FINISHES.

-REFERENCE MEP DRAWINGS FOR SCOPE OF MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION.

-REMOVE ONLY NONLOAD BEARING CONSTRUCTION AND PARTITIONS. CONTRACTOR TO VERIFY, PRIOR TO REMOVAL, THAT NO STRUCTURAL COMPONENTS, I.E. BEARING WALLS, BEAMS, HEADERS, ETC. SUPPORTING FLOOR, ROOF OR CEILING JOISTS ARE DESIGNATED FOR REMOVAL. CONTACT THE ARCHITECT PRIOR TO REMOVAL OF ANY CONSTRUCTION IN QUESTION OR DEVIATING FROM THE DESIGN INTENT. CONTRACTOR'S NONCONTACT OF ARCHITECT PRIOR TO REMOVAL OF ANY WORK INDICATES HIS COMPLETE UNDERSTANDING THAT NO LOAD BEARING OR STRUCTURAL WORK IS BEING ALTERED UNDER THIS CONTRACT.

-PATCH ALL FINISHES TO MATCH EXISTING, INCLUDING BUT NOT LIMITED TO, GYPSUM BOARD, PLASTER, ACOUSTIC SYSTEMS, WOOD TRIM, COVERS, BASE, PANELS, RAILS AND WAINSCOT. VERIFY MATCH OF NEW FINISH MATERIALS TO EXISTING IN COLOR, TEXTURE, THICKNESS, CUT, ETC. TO SATISFACTION OF OWNER PRIOR TO INSTALLATIONS. PROVIDE OTHER MATERIALS TO MATCH EXISTING WHEN REQUIRED. TO BE APPROVED BY ARCHITECT.

-PATCH EXISTING WALLS, GYPSUM DRYWALL, OR PLASTER TO MATCH EXISTING OF SUFFICIENT THICKNESS TO MAINTAIN UNIFORM WALL THICKNESS. ALL EXPOSED PORTIONS OF WALL SHALL BE FINISHED WITH THREE (3) COATS OF SPECKLING, SANDED AND LEFT IN A PAINT READY CONDITION.

-WHERE APPLICABLE, LEVEL ALL EXISTING FLOORS AS REQUIRED TO RECEIVE NEW FLOOR FINISHES. INSTALL REQUIRED TRANSITION PIECES BETWEEN VARIOUS FLOOR FINISHES SUITABLE FOR CONDITIONS AND ACCEPTABLE TO THE ARCHITECT. MATCH EXISTING WHEREVER POSSIBLE.

Offic

f Charleston - Police (Renovations ginia Street East Charleston, WV 2

DRAWN: CFC DATE: 09/29/21 CHECKED: TTG DATE: 09/29/21 APPROVED: TTG DATE: 09/29/21

PROJECT No. 010-10145

DEMOLITION PLAN

D1.01

- ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD.

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-REMOVE ALL EXISTING CONSTRUCTIONS AND FINISHES NECESSARY FOR THE COMPLETION OF THE WORK AS DEPICTED ON THE DRAWINGS. INCLUDING BUT NOT LIMITED TO, ITEMS SHOWN ON THE PLANS WITH DASHED LINES. NECESSARY DISCONNECTS AND ALTERATIONS TO EXISTING MECHANICAL, ELECTRICAL, FIRE PROTECTION AND ALARM SYSTEMS SHALL BE INCLUDED.

-PATCH AS REQUIRED ALL CONSTRUCTIONS TO REMAIN IN ACCORDANCE WITH THE CONTRACT DRAWINGS. WHERE CONTRACTOR IS DESIGNATED TO MAKE REMOVALS, DISPOSAL OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY WITH OWNER, THE DISPOSAL AND REMOVAL OF ANY COMPONENTS OF SALVAGEABLE VALUE.

-ALL REMOVALS AND SALVAGE: SALVAGED ITEMS SHALL FIRST BE OFFERED TO THE OWNER. SALVAGED ITEMS THAT ARE NOT RETAINED BY THE OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR & SHALL BE LEGALLY DISPOSED OF OFF SITE.

-PATCH AND REPAIR ALL SURFACES TO ACCEPT NEW FINISHES.

KEY PLAN

-PATCH AND REPAIR FLOOR SUBSTRATE AS REQ'D TO ACCEPT NEW FINISHES.

-REFERENCE MEP DRAWINGS FOR SCOPE OF MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION.

-REMOVE ONLY NONLOAD BEARING CONSTRUCTION AND PARTITIONS. CONTRACTOR TO VERIFY, PRIOR TO REMOVAL, THAT NO STRUCTURAL COMPONENTS, I.E. BEARING WALLS, BEAMS, HEADERS, ETC. SUPPORTING FLOOR, ROOF OR CEILING JOISTS ARE DESIGNATED FOR REMOVAL. CONTACT THE ARCHITECT PRIOR TO REMOVAL OF ANY CONSTRUCTION IN QUESTION OR DEVIATING FROM THE DESIGN INTENT. CONTRACTOR'S NONCONTACT OF ARCHITECT PRIOR TO REMOVAL OF ANY WORK INDICATES HIS COMPLETE UNDERSTANDING THAT NO LOAD BEARING OR STRUCTURAL WORK IS BEING ALTERED UNDER THIS CONTRACT.

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-WHERE APPLICABLE, LEVEL ALL EXISTING FLOORS AS REQUIRED TO RECEIVE NEW FLOOR FINISHES. INSTALL REQUIRED TRANSITION PIECES BETWEEN VARIOUS FLOOR FINISHES SUITABLE FOR CONDITIONS AND ACCEPTABLE TO THE ARCHITECT. MATCH EXISTING WHEREVER POSSIBLE.

Offi f Charleston - Police (Renovations ginia Street East Charleston, WV 2

of

DATE: 09/29/21 DRAWN: CFC CHECKED: TTG DATE: 09/29/21 APPROVED: TTG DATE: 09/29/21

City

PROJECT No. 010-10145

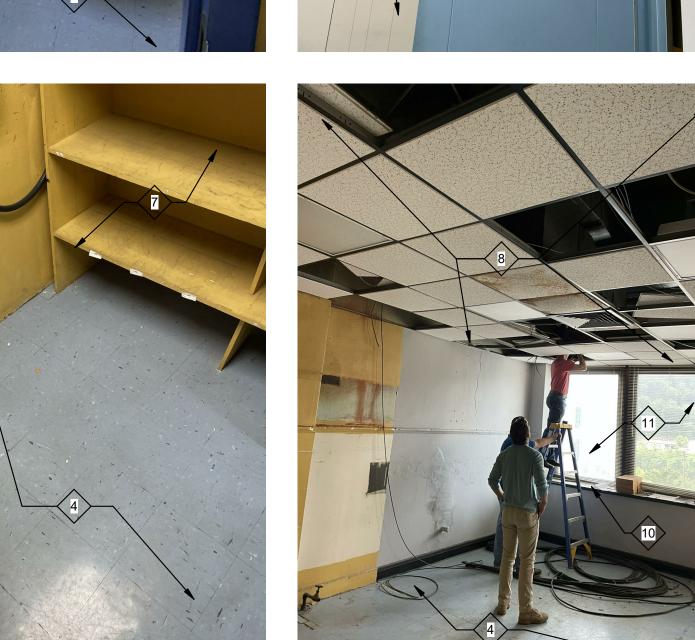
DEMOLITION RCP

D1.02

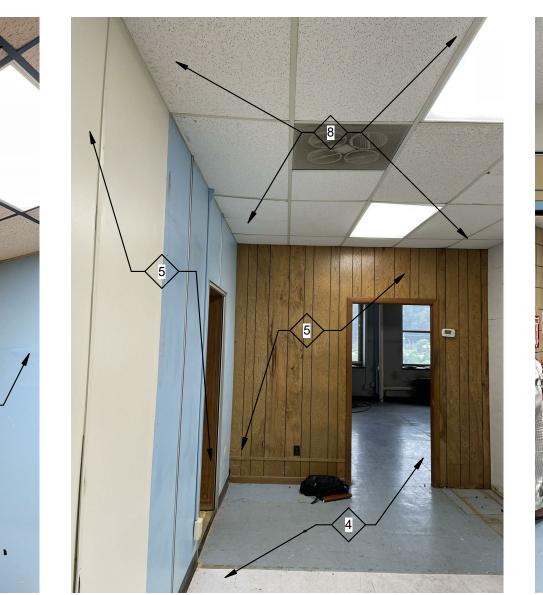




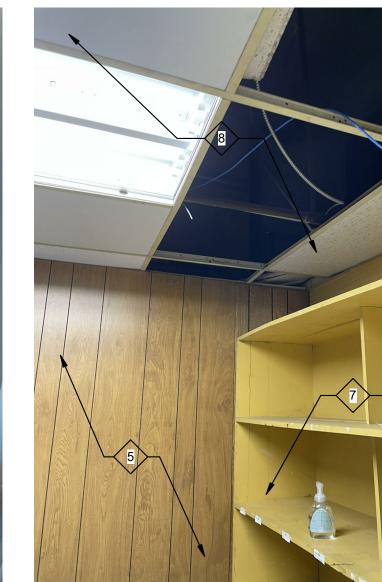
REMOVE ALL WALL
MOUNTED ACCESSORIES













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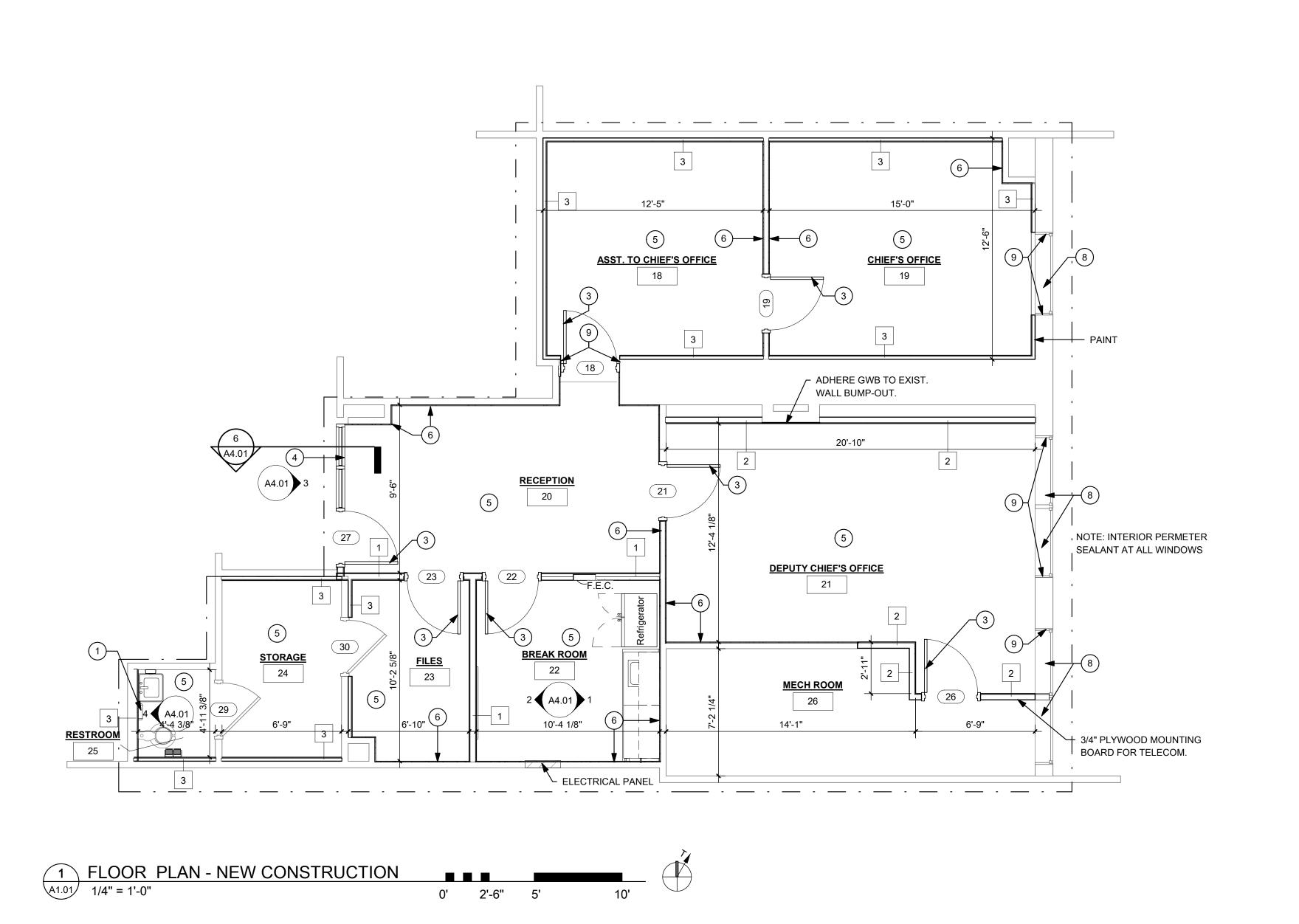
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DEMOLITION PHOTOS

		DRAWN: CFC	DATE: 09/29/21
	DEMOLITION NOTES	CHECKED: TTG APPROVED: TTG	DATE: 09/29/21 DATE: 09/29/21
NOTE#	DESCRIPTION	PROJECT No.	
1	REMOVE AND DISPOSE OF LAVATORY/SINK	010)-10145
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6	REMOVE AND DISPOSE OF GLAZED FACED CMU	SHEET No.	
7	REMOVE AND DISPOSE OF SHELVING	SHEET NO.	
8	REMOVE AND DISPOSE OF CEILING, CEILING GRID, LIGHT FIXTURE, SPEAKERS, FIRE DETECTION DEVICES, DIFFUSERS, GRILLES	D1	.03
9	REMOVE DOOR, DOOR FRAME, AND DOOR HARDWARE	ו ט	.00
10	REMOVE WINDOW STOOL AND ANY ASSOCIATED DAMAGED STOOL FRAMING		

11 REMOVE EXISTING INTERIOR PERIMETER SEALANT/CAULKING

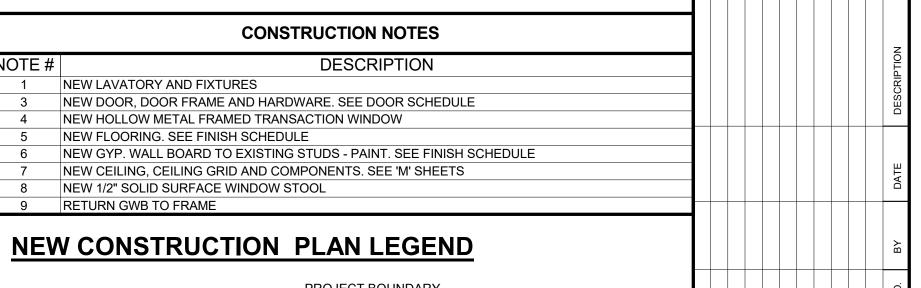


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- - PROJECT BOUNDARY

EXISTING TO REMAIN

NEW CONSTRUCTION

GENERAL NOTES:

<u>KEY PLAN</u>

-THE SCOPE OF THE WORK IS GENERALLY LIMITED TO THE AREAS SHOWN ON THESE PLANS. WORK NECESSARY TO RUN ELECTRICAL SERVICE TO EXISTING PANELS OR EXTEND OR REROUTE OTHER UTILITY LINES IS ALSO INCLUDED

-VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY ON SITE ACTIVITIES.

-DIMENSIONS SHOWN ON THESE PLANS ARE TYPICALLY FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE

MATCH EXISTING CONSTRUCTION AND FINISHES, INCLUDING INSULATION MAT'LS. -TYPICAL NEW WALLS SHALL BE 6" ABOVE FINISHED CEILING HEIGHT. VERIFY CEILING HEIGHTS ON

-PATCH EXISTING WALLS WHERE DEMOLITION OR OTHER CUTTING OF WALL SURFACES IS REQ'D TO

ROOM FINISH SCHEDULE. CONTRACTOR SHALL MATCH EXISTING CONSTRUCTION (STUD SIZE AND GWB. THICKNESS) WHERE APPROPRIATE TO FILL IN GAPS IN WALL OR EXTEND EXISTING WALLS.

-CONTRACTOR SHALL SCHEDULE NOISY, NOXIOUS, OR DISRUPTIVE ACTIVITIES OUTSIDE OF BUSINESS HOURS.

-ALL NEW PARTITIONS TO BE TYPE (1) UNLESS NOTED OTHERWISE.

-INSTALL WOOD BLOCKING IN NEW WALLS TO RECEIVE WALL-MOUNTED ITEMS. WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED

-PREPARE ALL NEW AND EXISTING WALL SURFACES TO RECEIVE SCHEDULED FINISH. REF: ROOM FINISH SCHEDULE, SHEET A1.02

-FINISH FLOOR MAT'L TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR.

- THE OTHER AREAS OF THE BUILDING WILL REMAIN IN OPERATION FOR THE DURATION OF THE CONSTRUCTION CONTRACT. COOPERATION AND CONSIDERATION BY THE CONTRACTOR AND WORKMEN ON SITE WILL BE REQ'D. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE WORK ACTIVITIES WITH THE OWNER.

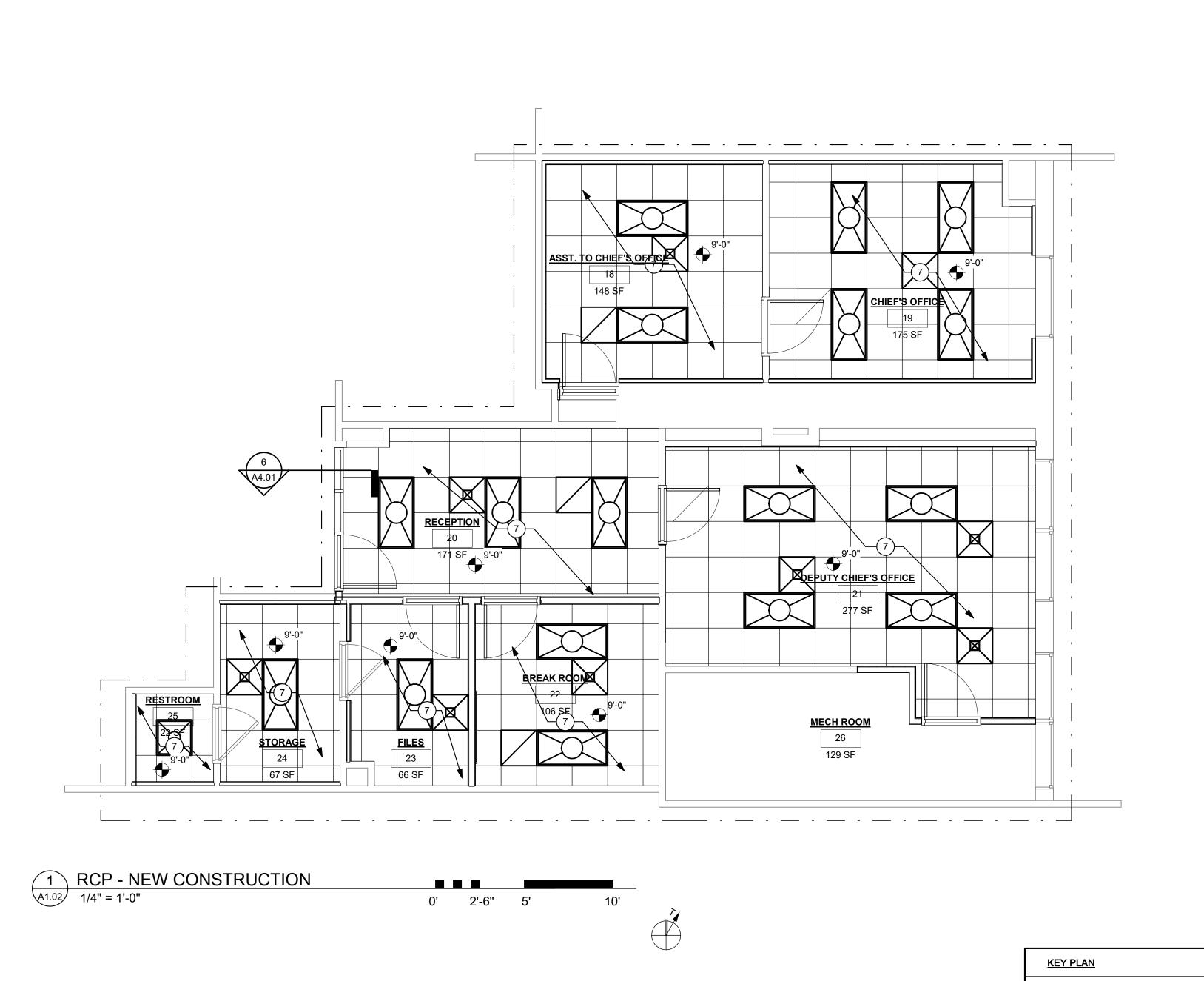
Charleston - Police Office Renovations inia Street East Charleston, WV 25301 of City

DATE: 09/29/21 CHECKED: TTG DATE: 09/29/21 APPROVED: TTG DATE: 09/29/21

PROJECT No. 010-10145

FLOOR PLAN

A1.01



600 WHITE OAKS BLVD. P.O. BOX 940 BRIDGEPORT, WV 26330

P (304) 624-4108 F (304) 624-7831

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NEW LAVATORY AND FIXTURES NEW DOOR, DOOR FRAME AND HARDWARE. SEE DOOR SCHEDULE NEW HOLLOW METAL FRAMED TRANSACTION WINDOW NEW FLOORING. SEE FINISH SCHEDULE NEW GYP. WALL BOARD TO EXISTING STUDS - PAINT. SEE FINISH SCHEDULE NEW CEILING, CEILING GRID AND COMPONENTS. SEE 'M' SHEETS NEW 1/2" SOLID SURFACE WINDOW STOOL 9 RETURN GWB TO FRAME **NEW CONSTRUCTION PLAN LEGEND** - - PROJECT BOUNDARY EXISTING TO REMAIN NEW CONSTRUCTION REFLECTED CEILING PLAN LEGEND NOTE: CONTRACTOR TO COORDINATE RCP BETWEEN ARCHITECTURAL AND MEP DRAWINGS DIFFUSERS 2'x2' LAY-IN CEILING TILE 2'x4' LIGHT FIXTURE RETURN GRILL

— WALLS BELOW

GENERAL NOTES:

BULK HEAD

2'x2' LIGHT FIXTURE

-THE SCOPE OF THE WORK IS GENERALLY LIMITED TO THE AREAS SHOWN ON THESE PLANS. WORK NECESSARY TO RUN ELECTRICAL SERVICE TO EXISTING PANELS OR EXTEND OR REROUTE OTHER UTILITY LINES IS ALSO INCLUDED

CONSTRUCTION NOTES

DESCRIPTION

-VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY ON SITE

-DIMENSIONS SHOWN ON THESE PLANS ARE TYPICALLY FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL UNLESS NOTED OTHERWISE

-PATCH EXISTING WALLS WHERE DEMOLITION OR OTHER CUTTING OF WALL SURFACES IS REQ'D TO

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Offic f Charleston - Police (Renovations rginia Street East Charleston, WV 2

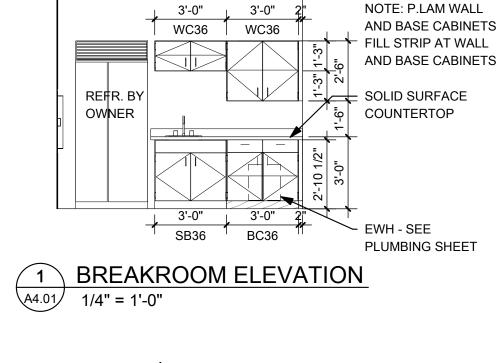
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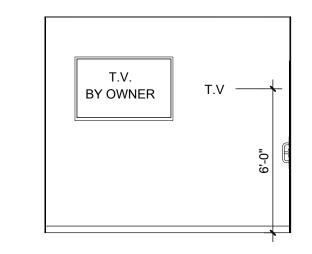
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APPROVED: TTG DATE: 09/29/21 PROJECT No.

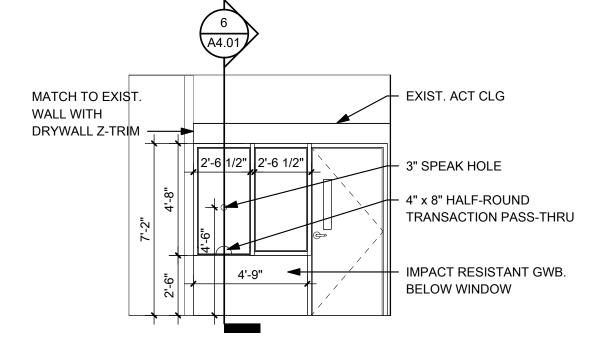
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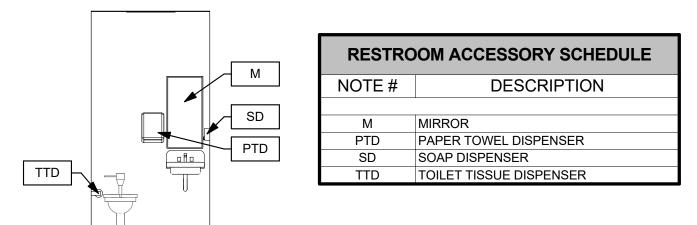
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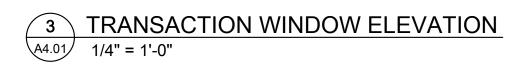








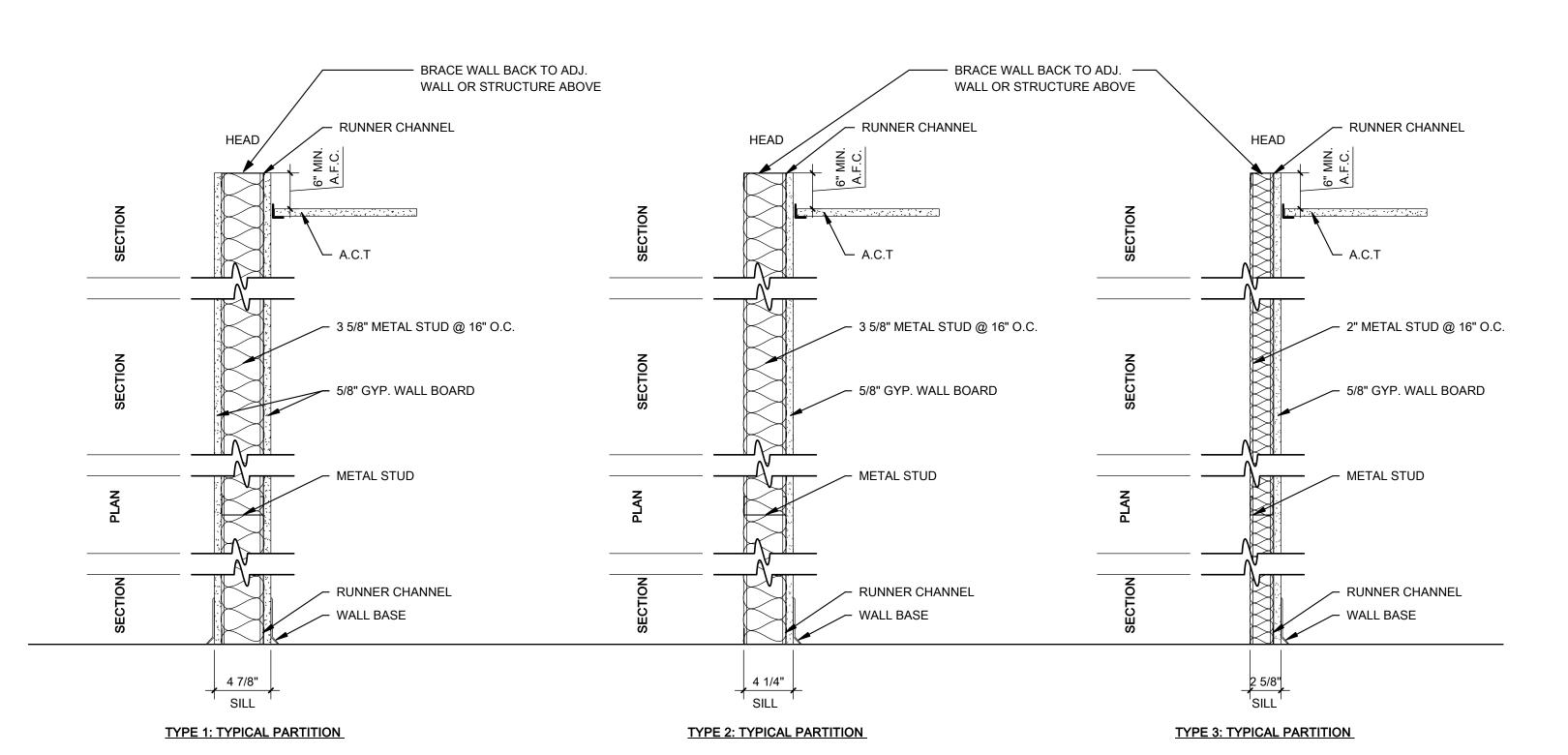




5 TYP. INT. PARTITION TYPES

A4.01 1 1/2" = 1'-0"





6 TRANSACTION WINDOW DETAIL
1 1/2" = 1'-0"

NEW ACT CEILING -

EXIST.
PARTITION -

- EXISTING CEILING

— HOLLOW METAL FRAME

5 5/16" S.S. SPEAK THRU CRL SST5 OR SIMILAR

— 1/2" SOLID SURFACE EASED EDGE

- 5/8" IMPACT RESISTANT

— HOLLOW METAL

FRAME BEYOND

TRANSACTION WINDOW

LAMINATED GLASS - (2) LAYERS6MM TEMPERED GLASS

4" X 8" HALF ROUND SWING AWAY COVER CRL 720A ADN 720A12 OR SIMILAR

PROVIDE LEVEL

CAULK PERIMETER BOTH SIDES

5/8" GWB —

4 FINISH AT NEW/EXISTING

PARTITION

NOTE: WHERE STUD FRAMING OF EXISTING PARTITIONS IS SUITABLE APPLY GWB DIRECTLY TO EXISTING STUDS.

0' 5"



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NO. BY DATE DESCRIPTION

WN: CFC DATE: 09/29/21

Charleston - Police Office Renovations Jinia Street East Charleston, WV 25301

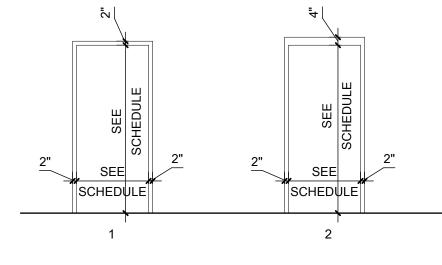
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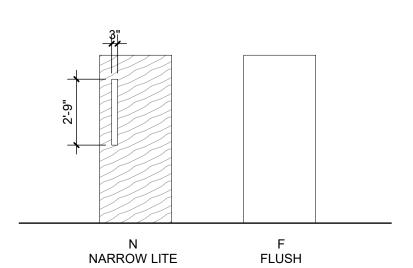
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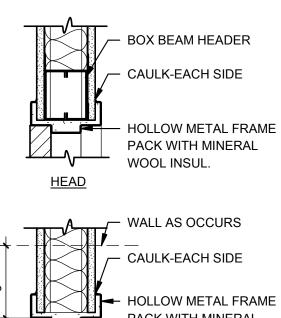
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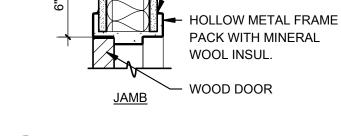
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A4.01

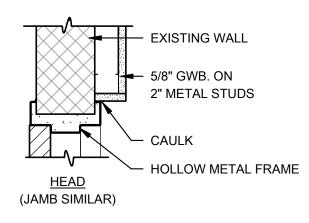






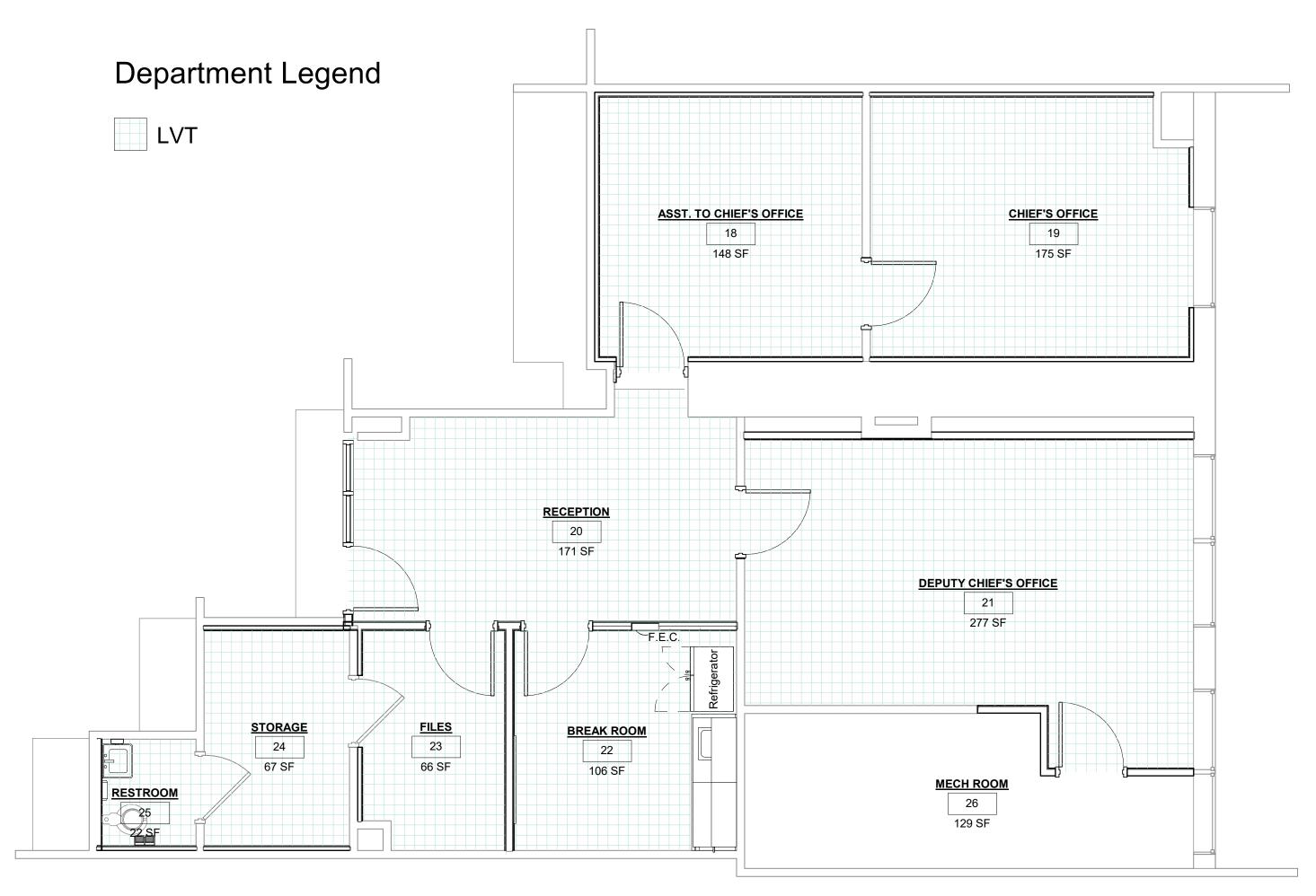








ROOM FINISH SCHEDULE												
ROOM#	ROOM NAME	FLOOR	BASE		WALL	FINISH		CEILING	REMARKS			
ROOM #	ROOM NAME	FINISH	DAGE	NORTH EAST		SOUTH WEST		FINISH	KEWAKKS			
18	ASST. TO CHIEF'S OFFICE	LVT	RUBBER	PAIINT 2	PAINT 1	PAINT 1	PAINT 1	A.C.T				
19	CHIEF'S OFFICE	LVT	RUBBER	PAIINT 2	PAINT 1	PAINT 1	PAINT 1	A.C.T				
20	RECEPTION	LVT	RUBBER	PAIINT 1	PAINT 1	PAINT 1	PAINT 1	A.C.T				
21	DEPUTY CHIEF'S OFFICE	LVT	RUBBER	PAIINT 2	PAINT 1	PAINT 1	PAINT 1	A.C.T				
22	BREAK ROOM	LVT	RUBBER	PAIINT 1	PAINT 1	PAINT 1	PAINT 2	A.C.T				
23	FILES	LVT	RUBBER	PAIINT 1	PAINT 1	PAINT 1	PAINT 1	A.C.T				
24	STORAGE	LVT	RUBBER	PAIINT 1	PAINT 1	PAINT 1	PAINT 1	A.C.T				
25	RESTROOM	LVT	RUBBER	PAIINT 1	PAINT 1	PAINT 1	PAINT 1	A.C.T				
26	MECH ROOM	-	-	-	-	-	-	-	NO NEW FINISHES			



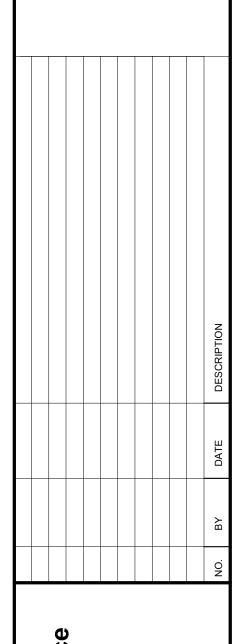


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of Charleston - Police Office Renovations Virginia Street East Charleston, WV 25301

City

CHECKED: TTG DATE: 09/29/21 APPROVED: TTG DATE: 09/29/21 PROJECT No.

> SCHEDULES & DIAGRAMS

010-10145

A6.01

PIPE RISING UP

FLOW SWITCH

INDICATOR

PRESSURE SWITCH

PIPE DROPPING DOWN

UNION - SCREWED OR FLANGED

TEMPERATURE TRANSMITTER

PRESSURE TRANSMITTER OR

THERMOMETER/TEMPERATURE

GAUGE WITH GAUGE COCK/

(REDUCED PRESSURE ZONE)

WATER HAMMER ARRESTER

(DOUBLE CHECK VALVE ASSEMBLY)

PRESSURE INDICATOR

BACKFLOW PREVENTOR

BACKFLOW PREVENTOR

CIRCUIT SETTING

HOSE BIBB

ROOF DRAIN

FLOOR DRAIN

AREA DRAIN

CLEANOUT

OPEN SITE DRAIN

FLOOR CLEANOUT

WALL CLEAN OUT

BALANCING VALVE

GAS COCK

STRAINER

SPRINKLER HEAD

STRAINER WITH

BLOW OFF VALVE

FLEXIBLE-CONNECTION

GAS PRESSURE REGULATOR

PLUMBING SYMBOL LEGEND

SYMBOL DESCRIPTION - DOMESTIC COLD WATER PIPING (CW) - DOMESTIC HOT WATER PIPING (HW) - SANITARY SEWER PIPING - SANITARY VENT PIPING (V) - POINT OF CONNECTION TO EXISTING

PLUMBING ABBREVIATIONS

	SYMBOL [DESCRIPTION	
A/C	- ABOVE CEILING	ΙE	- INVERT ELEVATION
AFF	- ABOVE FINISH FLOOR	KW	- KILOWATT
AP	- ACCESS PANEL	LBS	- POUNDS
BFF	- BELOW FINISHED FLOOR	MG	- MEDIUM PRESSURE GAS
CD	- CONDENSATE DRAIN	NTS	- NOT TO SCALE
CFH	- CUBIC FEET PER HOUR	OSD	- OVERFLOW STORM DRAIN
CO	- CLEANOUT	PD	- PUMP DISCHARGE
CONT	- CONTINUATION	PSI	
CW	- DOMESTIC COLD WATER		- POUNDS PER SQUARE INCH
DN	- DOWN	PVC	- POLYVINYL CHLORIDE PIPE
DWG	- DRAWING	RPBP	- REDUCED PRESSURE BACKFLOW PREVENTER
(E)	- EXISTING	SD	- STORM DRAIN
°F	- DEGREE FAHRENHEIT	SS	- SANITARY SEWER
FCO	- FLOOR CLEANOUT	SF	- SQUARE FEET
FD	- FLOOR DRAIN	UNO	- UNLESS NOTED OTHERWISE
G	- GAS	V	- VENT
GPM	- GALLONS PER MINUTE	VTR	- VENT THRU ROOF
HW	- DOMESTIC HOT WATER	WCO	- WALL CLEANOUT
HWC	- DOMESTIC HOT WATER CIRCU	ULATION	

PLUMBING GENERAL NOTES

- 1. DO NOT SCALE FROM THESE DRAWINGS. EXACT DIMENSIONS SHALL BE TAKEN FROM ARCHITECTURAL
- 2. ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- 3. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE AND LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- 4. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- 5. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
- 6. THE PLUMBING CONTRACTOR MUST VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS CONDITIONS TO BE MET PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
- 7. IT IS CRITICAL THAT THE PLUMBING CONTRACTOR FIELD VERIFIES ALL EXISTING INVERT ELEVATIONS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEMS AND THE EXISTING SITE LEVEL SYSTEMS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF AN OWNER'S REPRESENTATIVE AND THE ENGINEER PRIOR TO BID SUBMISSION. EXTRA COMPENSATION WILL NOT BE GRANTED FOR ANY EXTRA WORK OR MATERIAL WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE EXISTING SITE LEVEL PIPING SYSTEMS.
- 8. THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING. PIPING CONNECTIONS AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM THE BID DOCUMENTS.
- 9. RUN ALL DOMESTIC WATER, WASTE AND VENT PIPING AS HIGH AS POSSIBLE THROUGHOUT THE ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN STEEL JOIST SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE AND VERIFY WITH OTHER CONTRACTORS AS NOT TO INTERFERE WITH DUCTWORK, FIRE PROTECTION PIPING, LIGHTING SYSTEMS, ETC.
- 10. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH AN OWNER REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION.
- 11. ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES WHETHER OR NOT SHOWN ON THE DRAWINGS.
- 12. THE PLUMBING CONTRACTOR SHALL RUN OUT ALL BUILDING DRAINAGE AND WASTE LINES WHERE SHOWN ON THE DRAWINGS AND MAKE ALL CONNECTIONS TO SITE LEVEL SYSTEMS.

- 13. ALL NON-DRAINAGE PIPING SHALL BE RUN LEVEL AND GENERALLY FREE OF TRAPS AND UNNECESSARY BENDS, ARRANGED TO CONFORM TO THE BUILDING REQUIREMENTS AND TO SUIT THE NECESSITIES OF CLEARANCES FOR OTHER MECHANICAL WORK. PROVIDE VALVED DRAINAGE OUTLETS IN AREAS OF PIPING
- WOULD BE UNDRAINABLE DURING MAINTENANCE OR REPAIRS.
- 14. ALL REQUIRED OFFSETS, RISES AND DROPS DUE TO POSSIBLE OBSTRUCTIONS OF PIPE RUNS ARE NOT NECESSARILY SHOWN. PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED OFFSETS NECESSARY FOR FINAL COORDINATION WITH OTHER TRADES AND STRUCTURE.
- 15. THROUGH PENETRATIONS OF FIRE RESISTANCE RATED HORIZONTAL ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED THROUGH- PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER (2.49 PA). THE SYSTEM SHALL HAVE AN F RATING/T RATING OF NOT LESS THAN 1 HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED. SEE ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS, RATINGS AND DETAILS.

EXCEPTIONS:

A. FLOOR PENETRATIONS CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL ABOVE THE FLOOR OR BELOW THE FLOOR DO NOT REQUIRE A T RATING. B. FLOOR PENETRATIONS BY FLOOR DRAINS, TUB DRAINS OR SHOWER DRAINS CONTAINED AND LOCATED WITHIN THE CONCEALED SPACE OF A HORIZONTAL ASSEMBLY DO NOT REQUIRE A T RATING.

- 16. CLEANOUTS SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS
- 17. ALL PLUMBING EQUIPMENT, INSULATION, PIPING, ETC. INSTALLED IN HVAC RETURN AIR PLENUMS SHALL MEET CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS (FLAME 25 / SMOKE 50), WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 273.
- 18. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S REQUIREMENTS. MANUFACTURER RECOMMENDATIONS ARE DEEMED REQUIREMENTS.
- 19. WHERE REQUIRED FOR ACCESS TO VALVES AND ACCESSORIES ABOVE HARD CEILINGS OR IN WALLS, ACCESS PANELS SHALL BE PROVIDED BY THIS CONTRACTOR. PANELS IN RATED ASSEMBLIES SHALL HAVE LISTED RATINGS EQUAL TO OR GREATER THAN THE ASSEMBLY THEY ARE INSTALLED IN.
- 20. ALL VALUE ENGINEERING OR DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE DESIGN TEAM FOR REVIEW AND APPROVAL PRIOR TO ACCEPTANCE OR IMPLEMENTATION. ANY COST INCURRED AS A RESULT OF ANY DEVIATIONS FROM THE BASIS OF DESIGN INDICATED IN THE CONTRACT DOCUMENTS (E.G. . PLUMBING MODIFICATIONS TO ACCOMMODATE ALTERNATE EQUIPMENT SELECTIONS, DESIGN RELATED EXPENSES FOR REQUIRED DRAWING MODIFICATIONS, ETC.) SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR. NO INCREASE IN CONTRACT COST WILL BE GRANTED UNLESS BORNE BY AND APPROVED IN WRITING BY THE OWNER. CONTRACT DOCUMENTS ARE DEFINED TO INCLUDE ALL DISCIPLINES AND DIVISIONS OF THE CONTRACT.

600 WHITE OAKS BLVD. P.O. BOX 940

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DRAWN: DB DATE: 09/03/2021 CHECKED: TTG DATE: 09/03/2021 APPROVED: TTG DATE: 09/03/2021

PROJECT No.

City

LEGENDS & GENERAL

NOTES

010-10145

P1.01

	PLUMBING FIXTURE SCHEDULE * REFER TO DRAWINGS FOR SPECIFIC VENTING METHOD AND SIZES													
MARK	FIXTURE	DESCRIPTION	MAKE AND MODEL	P WASTE		E (INCH)		ACCESSORIES						
S-1		TYPE 304 STAINLESS STEEL TOP MOUNT SINK, 17"x15"x6" DEEP, WITH CENTERMOUNT CHROME PLATED BRASS FAUCET WITH SINGLE HANDLE FAUCET AND GOOSENECK SPOUT, 1.8 GPM	SINK: ELKAY LRAD1517 FAUCET: DELTA 9159-DST	1 1/2	1 1/2	1/2	1/2	DRAIN ASSEMBLY WITH 1-1/4 INCH O.D. TAILPIECE AND P-TRAP, SUPPLY STOPS WITH FLEXIBLE RISERS AND ESCUTCHEONS, CRUMB-CUP STRAINER						
LVH	LAVATORY (ADA) FAUCET	VITREOUS CHINA WALL HUNG LAVATORY, 21-1/4" X 18-1/8", 4" CENTERSET CHROME PLATED BRASS FAUCET WITH SINGLE LEVER HANDLE, 0.5 GPM. PROVIDE WITH FLOOR MOUNTED CONCEALED ARM CARRIER FOR THE LAVATORY.	LAVATORY - KOHLER K-2005 FAUCET - ZURN Z7443-XL-CST-FC CARRIER: ZURN OR EQUAL	X	х	1/2	1/2	PROVIDE WITH OFFSET GRID DRAIN ASSEMBLY, 17 GAUGE 1-1/4" TAILPIECE, 1-1/4" X 1-1/2" 17 GA P-TRAP WITH WASTE ARM AND WALL ESCUTCHEON, LOOSE-KEY BRASS ANGLE STOPS WITH ANNEALED SUPPLIES, POLISHED CHROME FINISH, MCGUIRE OR EQUAL. PROVIDE PRE-MOLDED INSULATION KITS FOR ALL EXPOSED DRAINAGE AND SUPPLY PIPING AND TRIM BELOW LAV, TRUEBRO OR EQUAL.						
HD	HUB DRAIN	PVC COATED BODY WITH BOTTOM OUTLET, SMOOTH, SOFT, FLEXIBLE, ELASTOMERIC PVC MATERIAL MOLDED INTO SHAPE OF DUCK'S BILL, OPEN ON TOP WITH CURL CLOSURE AT BOTTOM ALLOWS WASTEWATER TO OPEN AND ADEQUATELY DISCHARGE FLOOR DRAIN THROUGH ITS INTERIOR THEN CLOSES AND RETURNS TO ORIGINAL MOLDED SHAPE AFTER WASTEWATER DISCHARGE IS COMPLETE.	PROSET SYSTEMS - T23FHDRS-SSW	2	*	х	х							
IM	ICE MAKER WALL BOX	HIGH IMPACT PLASTIC BOX WITH 1/4 TURN BALL VALVE	OATEY	Х	Х	1/2	Х							

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BRIDGEPORT, WV 26330 P (304) 624-4108

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NO. BY DATE DESCRIPTION

City of Charleston - Police Office
Renovations
501 Virginia Street East Charleston, WV 25301
September 29, 2021

DRAWN: DB DATE: 09/03/2021
CHECKED: TTG DATE: 09/03/2021
APPROVED: TTG DATE: 09/03/2021

PROJECT No.

SCHEDULES & DETAILS

010-10145

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P1.02

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USER: DE

PLOT DATE/TIME: 9/3/2021 9:57:43 AM

LAYOUT TAB: SCHEDULES & DETAILS

CAD FILE: C:\Users\acrank\Documents\Cityof\Charleston-Police\Renovations.

PLUMBING SPECIFICATIONS

1. GENERAL CONDITIONS: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE 2018 AND ALL OTHER APPLICABLE LOCAL AND STATE

MATERIALS: NEW, UNUSED, BEST OF THEIR RESPECTIVE KINDS AND FREE FROM DEFECTS AS INDICATED ON THE DRAWINGS, BASIS OF QUALITY SHALL BE LATEST STANDARDS OF ASTM, ASA, FEDERAL SPECIFICATIONS OR OTHER ACCEPTABLE STANDARDS.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.

THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS AND OBTAIN ALL PERMITS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH ALL WORK UNDER THIS CONTRACT. HE SHALL COMPLY WITH ALL NATIONAL AND LOCAL LAWS. ORDINANCES, RULES AND REGULATIONS AND THE STATE ENERGY CODE.

SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF ALL MATERIAL. FOUR COPIES OF EACH SUBMITTAL ARE REQUIRED. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECT, THE PHASING PROCEDURE OF THE CONSTRUCTION WORK.

- 2. <u>CUTTING AND PATCHING</u>: THE CONTRACTOR SHALL DO ALL PATCHING AND CUTTING REQUIRED TO SATISFACTORILY PERFORM HIS WORK. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- 3. <u>DEMOLITION AND/OR REMOVALS</u>: CONTRACTOR SHALL NOT DEMOLISH OR REMOVE FROM PREMISES ANY ITEMS WHICH ARE NOT SPECIFICALLY CALLED FOR BY THE SPECIFICATIONS AND PLUMBING DRAWINGS. SHOULD SUCH ITEMS BE DISCONNECTED, DEMOLISHED OR REMOVED, THE CONTRACTOR SHALL PROMPTLY AND PROPERLY REINSTATE SUCH ITEMS TO THE SATISFACTION OF THE OWNER.

ANY DAMAGE CAUSED TO THE STRUCTURE AND/OR PROPERTY SHALL BE PROPERLY REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE AND TO THE COMPLETE SATISFACTION OF THE OWNER.

4. WORK INCLUDED: THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS ARE INTENDED TO SECURE THE PROVISION OF ALL MATERIALS AND LABOR NECESSARY FOR ALL PLUMBING WORK AS CALLED FOR HEREIN AND AS INDICATED ON THE DRAWINGS. SYSTEMS SHALL BE COMPLETE WITH ALL NECESSARY APPURTENANCES AND MINOR AUXILIARIES REQUIRED TO MAKE EACH SYSTEM COMPLETE IN EVERY RESPECT.

ALL WORK DESCRIBED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS OR VICE VERSA SHALL BE FURNISHED IN COMPLETE WORKING ORDER.

THE FOLLOWING IS A GENERAL DESCRIPTION OF WORK TO BE PROVIDED AND INSTALLED BY THIS CONTRACTOR:

NEW DOMESTIC HOT & COLD WATER DISTRIBUTION SYSTEM

NEW SANITARY WASTE AND VENT SYSTEM.

NEW PLUMBING EQUIPMENT, FIXTURES AND TRIM.

TESTS, ADJUSTMENTS, SHOP AND AS-BUILT DRAWINGS, PERMITS, CERTIFICATES AND APPROVALS.

PIPE INSULATION ON ALL WATER AND DRAINAGE PIPING AS REQUIRED.

HANGERS AND SUPPORTS.

ROUGH CUTTING AND PATCHING.

ALL REQUIRED VALVES. CONTROLS AND VALVE ACCESS

5. GENERAL CONSTRUCTION: UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED BY THE OWNER FOR SUCH PURPOSES. STORE MATERIALS ONLY IN SPACES DESIGNATED BY OWNER.

REMOVE RUBBISH FROM PREMISES AS OFTEN AS NECESSARY OR AS DIRECTED BY OWNER.

BEFORE SUBMITTING A PROPOSAL, PROSPECTIVE BIDDERS SHALL VISIT AND CAREFULLY EXAMINE THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES ASSOCIATED WITH THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.

FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING AS REQUIRED.

PREPARE AND FURNISH TO THE OWNER CAD GENERATED "AS-BUILT" PLANS FOR ALL WORK INSTALLED.

ALL PARTS OF THE WORK SHALL BE TESTED AND ADJUSTED TO WORK PROPERLY AND BE LEFT IN PERFECT OPERATING CONDITION. CORRECT DEFECTS DISCLOSED BY THESE TESTS WITHOUT ANY ADDITIONAL COST TO THE OWNER.

6. <u>INSPECTIONS AND TESTS</u>: THE OPERATION OF THE EQUIPMENT AND PIPING INSTALLATION DOES NOT CONSTITUTE AN ACCEPTANCE OF THE WORK BY THE OWNER. THE FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS SYSTEM AND DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED REQUIRED CERTIFICATES.

UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL FURNISH CERTIFICATES OF APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION. HE SHALL DEMONSTRATE THAT ALL WORK IS COMPLETE AND IN PERFECT OPERATING ORDER AND THAT THE ENTIRE INSTALLATION IS FREE FROM ANY PHYSICAL DEFECTS.

TEST ALL SYSTEMS IN FULL ACCORDANCE WITH LOCAL, STATE AND UTILITY COMPANY REQUIREMENTS.

7. GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE FINAL DATE OF ACCEPTANCE IN WRITING.

8. PIPING, FITTINGS AND JOINTS

WATER DISTRIBUTION:

ABOVE SLAB DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH LEAD-FREE SOLDERED JOINTS. EXCEPT AS NOTED, CPVC PIPE AND FITTINGS MAY BE USED FOR DOMESTIC COLD WATER AND LOW TEMPERATURE HOT WATER (120°F OR LESS) SUPPLY PIPING. TYPE L COPPER SHALL BE USED FOR ALL PIPING WITH OPERATING TEMPERATURES OF 140°F OR HIGHER.

2" AND SMALLER CPVC SHALL BE COPPER TUBE SIZE, SDR-11. CPVC PIPING SHALL BE AS MANUFACTURED BY LUBRIZOL AND SHALL BE EQUAL TO THE FLOWGUARD GOLD AND CORZAN PIPING SYSTEMS. FITTINGS SHALL BE MATCHING CPVC AND SHALL BE SOLVENT WELDED WITH PRIMER AND CPVC SPECIFIC CEMENT. PRESSURE TEST SYSTEM AT TWO TIMES SYSTEM OPERATING PRESSURE FOR A PERIOD OF 24 HOURS.

SOIL, WASTE AND VENT PIPING SHALL BE SOLID WALL SCHEDULE 40 PVC (ASTM 1784 AND 1785) WITH DWV PATTERN FITTINGS (ASTM 2665) WITH CEMENT JOINTS. (ASTM D2564-96A).

EXCEPTION: SOIL, WASTE AND VENT PIPING ABOVE SLAB IN AIR PLENUMS SHALL BE NO-HUB CAST IRON PIPE AND FITTINGS WITH HEAVY DUTY NO-HUB COUPLINGS (HUSKY OR EQUAL). ALL CAST IRON PIPE AND FITTINGS SHALL BE OF DOMESTIC SOURCE AND BEAR THE CAST IRON SOIL PIPE INSTITUTE (CISPI) TRADEMARK.

9. PIPE INSTALLATION: LOCATIONS AND SIZES OF EXISTING PIPING ON PLAN ARE APPROXIMATE. EXACT SIZES AND LOCATIONS FOR NEW CONNECTIONS TO ALL EXISTING PIPING SHALL BE VERIFIED BEFORE STARTING WORK.

THE WORD 'PIPING' IN THIS SPECIFICATION REFERS TO ALL PIPE. FITTINGS, NIPPLES AND VALVES AND SHALL BE CONSIDERED AS SUCH IN THE INSTALLATION.

ALL WATER PIPING SHALL BE RUN LEVEL AND GENERALLY FREE OF TRAPS AND UNNECESSARY BENDS, ARRANGED TO CONFORM TO THE BUILDING REQUIREMENTS AND TO SUIT THE NECESSITIES OF CLEARANCES FOR OTHER WORK.

ALL HOT AND COLD WATER PIPING SHALL BE SEPARATED BY AT LEAST 6" (CENTER TO CENTER) AND INSTALLED SO THAT THE PIPES DO NOT COME IN CONTACT. WHERE THE PIPING IS PARALLEL, AMPLE SPACE SHALL BE PROVIDED BETWEEN PIPING FOR THE PROPER THICKNESS OF COVERING AND PROPER OPERATION OF VALVES.

ALL PIPING SHALL HAVE REDUCING FITTINGS WHERE ANY CHANGE IN THE PIPE SIZES OCCUR. NO BUSHINGS WILL BE ALLOWED. NO VALVE STEM SHALL BE INSTALLED BELOW THE CENTERLINE OF THE PIPING IT SERVES.

CONNECTIONS BETWEEN WATER PIPE, FITTINGS AND **EQUIPMENT OF FERROUS AND NON-FERROUS METALS SHALL** BE MADE WITH DI-ELECTRIC INSULATING COUPLINGS.

10. <u>HANGERS AND SUPPORTS</u>: ALL PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF APPROVED HANGERS AND SUPPORTS. PIPING SHALL BE SUPPORTED TO MAINTAIN REQUIRED GRADING AND PITCHING OF LINES TO PREVENT VIBRATION AND SECURE PIPING IN PLACE AND SHALL BE SO ARRANGED AS TO PROVIDE FOR EXPANSION AND CONTRACTION. SUPPORT LOCATIONS AND HANGING METHODS MUST BE SHOWN ON SHOP DRAWINGS AND APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER BEFORE STARTING WORK. THE SPACING OF HANGERS SHALL BE IN ACCORDANCE WITH PREVAILING CODES.

MALLEABLE IRON BRACKETS OF APPROVED TYPE SHALL BE USED ALONG WALLS. ADDITIONAL HANGERS SHALL BE INSTALLED AT ALL FITTINGS.

PIPING SHALL NOT BE HUNG FROM OTHER PIPING, DUCTWORK OR CONDUITS OF OTHER TRADES.

HANGERS AND SUPPORTS SHALL BE AS FOLLOWS: BARE HORIZONTAL FERROUS AND NON-FERROUS PIPING SHALL BE HUNG WITH STEEL, ADJUSTABLE-TYPE CLEVIS HANGERS OR "GANGED" ON SUITABLE TRAPEZE-TYPE SUPPORTS. HANGERS IN CONTACT WITH COPPER SHALL BE COPPER -PLATED. INSERTS, ANCHORS, CLAMPS, ETC., FOR SECURING HANGERS SHALL BE MAINTAINED BY THIS CONTRACTOR IN THE PROPER LOCATIONS DURING ALL PHASES OF CONSTRUCTION.

- 11. EQUIPMENT CONNECTIONS: CONTRACTOR SHALL FURNISH ALL REQUIRED VALVES, FITTINGS, VACUUM BREAKERS, TRAPS, ETC., NECESSARY FOR THE COMPLETE HOOKUP TO PROVIDE PROPER OPERATION OF EACH PIECE OF EQUIPMENT. IN CONNECTING TO EQUIPMENT, MANUFACTURER'S RECOMMENDATIONS AS TO SIZE AND ARRANGEMENT OF CONNECTIONS SHALL BE FOLLOWED, BUT WITH SIZES SHOWN ON PLAN BEING FOLLOWED.
- 12. <u>VALVES</u>: DOMESTIC HOT AND COLD WATER SHUT-OFF VALVES SHALL BE BRASS QUARTER TURN BALL VALVES WITH INJECTION MOLDED BRASS THREAD TO CPVC SOLVENT WELD ADAPTERS AND SHALL BE FULL PORT. PROVIDE BRASS VALVE TAGS WITH SCHEDULE IDENTIFYING VALVE SERVICE AND LOCATION.
- 13. <u>INSULATION</u>: PROVIDE PREFORMED FIBERGLASS INSULATION ON ALL HOT AND COLD WATER PIPING (COLD WATER PIPING TO HAVE VAPOR BARRIER), VALVES, AND EQUIPMENT. ALL INSULATION, JACKETS, ADHESIVES, ETC., SHALL HAVE A FLAME SPREAD RATING NOT OVER 25 AND A SMOKE DEVELOPED RATING NOT OVER 50. INSULATION 'R' VALUES SHALL BE AS REQUIRED BY PREVAILING CODES AND ENERGY RELATED STANDARDS.
- FINISHES: EXPOSED PIPE INSULATION SHALL BE VINYL COATED WITH AN EMBOSSED LAMINATE VAPOR BARRIER JACKET. LAPS AND END STRIPS SHALL BE ADHERED WITH INSULCOUSTIC IC-225. CONCEALED PIPE INSULATION SHALL HAVE A WHITE VAPOR BARRIER JACKET SECURED WITH ALUMINUM BANDS. INSULATED PIPE WITHIN MAIN MECHANICAL ROOMS AND SIMILAR AREAS THAT IS BELOW 7'-0" SHALL BE PROVIDED WITH ALUMINUM JACKETS AND BANDS FOR PROTECTION. INSULATION SUPPORT (TO PREVENT COLLAPSE OF INSULATION) SHALL BE PROVIDED BETWEEN PIPING AND PIPE HANGING SHIELDS. RIGID POLYURETHANE FOAM OR NATURAL CORK INSERTS MAY BE USED FOR SUPPORT. ALL PIPE SUPPORT APPARATUS MUST BE MOUNTED ON THE OUTSIDE OF ALL INSULATION.

INSUALTION FOR DOMESTIC WATER PIPING SHALL BE 1"THICKNESS FOR 2" AND SMALLER PIPING

PROVIDE PREFORMED INSULATION GUARDS ON ALL EXPOSED PLUMBING ELEMENTS UNDER ADA COMPLIANT LAVS AND SINKS AS REQUIRED BY ADA REQUIREMENTS, TRUEBRO OR

14. PIPING IDENTIFICATION: ALL PIPING SHALL BE IDENTIFIED WITH SEMI-RIGID PLASTIC PRESSURE-SENSITIVE IDENTIFICATION MARKERS (NOTE PRESSURE-SENSITIVE VINYL PIPE MARKERS WILL NOT BE ACCEPTED). DIRECTION OF FLOW ARROWS ARE TO BE INCLUDED ON EACH MARKER AND SHALL BE IN CONFORMANCE WITH "SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS" (ANSI A13.1-1975).

LOCATIONS FOR PIPE MARKERS TO BE AS FOLLOWS:

1. ADJACENT TO EACH VALVE AND FITTING (EXCEPT ON EQUIPMENT).

2. AT EACH BRANCH TAKE-OFF.

3. AT EACH PIPE PASSAGE THROUGH WALL AND CEILING CONSTRUCTION.

4. ON ALL HORIZONTAL PIPE RUNS - MARKED EVERY 20'. SETMARK PIPE

MARKERS AND BRASS VALVE TAGS AS MANUFACTURED BY SETON NAME PLATE CORP. (OR APPROVED EQUAL).

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DRAWN: DB DATE: 09/03/2021 CHECKED: TTG DATE: 09/03/2021 APPROVED: TTG DATE: 09/03/2021

PROJECT No.

PLUMBING **SPECIFICATIONS**

010-10145

P1.03

PLUMBING - NEW WORK PLAN
1/4" = 1'-0"

OPLUMBING KEY NOTES

- 1. CONECT NEW 3/4" COLD WATER LINE TO EXISTING 3/4" OR LARGER COLD WATER LINE AT THIS LOCATION. FIELD VERIFY EXACT LOCATION BEFORE STARTING CONSTRUCTION.
- 2. CONNECT NEW 2" VENT LINE TO EXISTING 2" OR LARGER VENT LINE AT THIS LOCATION. FIELD VERIFY EXACT LOCATION BEFORE STARTING CONSTRUCTION.
- 3. CONNECT NEW 2" WASTE LINE BELOW FLOOR TO EXISTING 2" OR LARGER WASTE LINE AT THIS LOCATION. FIELD VERIFY EXACT LOCATION AND ELEVATION BEFORE STARTING CONSTRUCTION.
- 4. REMOVE EXISTING LAVATORY AND FAUCET AND REPLACE AS NOTED. VIELD VERIFY EXISTING STOPS AND HOSES ARE IN GOOD WORKING ORDER. IF DAMAGED OR LEAKING REPLACE EXISTING STOPS, HOSES AND PIPING AS REQUIRED.
- 5. CONECT NEW 1/2" HOT WATER LINE TO EXISTING 1/2" OR LARGER HOT WATER LINE AT THIS LOCATION. FIELD VERIFY EXACT LOCATION BEFORE STARTING CONSTRUCTION.

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O. BY DATE DESCRIPTION

City of Charleston - Police Office Renovations 501 Virginia Street East Charleston, WV 25301

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FLOOR PLAN

010-10145

OUEET No

P3.01

020 THE THRASHER GROUP IN

INDOOF	RUNIT	

OUTDOOR UNIT

			WEIGHT.	_	VOLT							WEIGHT	CO	OLING CAPA	CITY	HEATING	G CAPACITY	VOLT			
MARK	MANUFACTURER	MODEL NO.	WEIGHT (LB)	CFM	VOLT. PHASE	MCA	MOCP	NOTES	MARK	MANUFACTURER	MODEL NO.	WEIGHT (LB)	TOTAL	SENSIBLE	SEER	TOTAL	HSPF	VOLT. PHASE	MCA	MOCP	NOTES
			,		IIIAOL							,	MBH	MBH	OLLIX	MBH		IIIAOL			
AC-1	TRANE	TEM6A0C36H31	155	1150	208/3	30	30	1,4	HP-1	TRANE	4TWA4036A3	250	25.5	23.0	15	14.6	8.5	208/3	13	20	3,6
AC-2	MITSUBISHI	NTXAMT12A112AA	106	405	208/1	13.5	20	2,5	HP-2	MITSUBISHI	NTXSKS12A112AA	100	10.5	8.4	15	3.8	8.5	208/1	9.0	20	3,6

NOTES:

- 1) HORIZONTAL MOUNT AIR HANDLER, PROVIDE WITH 5 KW ELECTRIC HEATER, CLEANABLE FILTER, CONDENSATE OVERFLOW SWITCH AND PROGRAMMABLE THERMOSTAT.
- 2) HORIZONTAL MOUNT AIR HANDLER, PROVIDE WITH 2.3 KW ELECTRIC HEATER, CLEANABLE FILTER, CONDENSATE OVERFLOW SWITCH AND PROGRAMMABLE THERMOSTAT. POWERED FROM OUTDOOR UNIT. HEATER REQUIRES SEPARATE POWER FEED.
- 3) AIR COOLED CONDENSING UNIT, PROVIDE INSULATED REFRIGERANT LINE SET, LOW AMBIENT CONTROL (30° F), COIL GUARD, POWER DISCONNECT AND ROOF EQUIPMENT RAIL.
- CAPACITY BASED ON EAT OF 73.7/61.3 AND LAT OF 54.5/53.3.
- (5) CAPACITY BASED ON EAT OF 75.8/63.7 AND LAT OF 55.7/54.6.
- 6) CONDENSER RATED AT 95° F.

	GRILLE, REGISTER AND DIFFUSER SCHEDULE									
MARK	MANUFACTURER	MODEL NO.	USE	DESCRIPTION NOTES						
D1	TITUS	TMS	SUPPLY	SQUARE FULL LOUVER FACE CEILING DIFFUSER WITH FRAME TYPE - 3 FOR LAY-IN CEILING.						
R1	TITUS	PAR	RETURN	SQUARE FLUSH PERFORATED FACE CEILING DIFFUSER WITH FRAME TYPE - 3 FOR LAY-IN CEILING. 1,2						
E1	TITUS	PAR	EXHAUST	SQUARE FLUSH PERFORATED FACE CEILING DIFFUSER WITH FRAME TYPE - 3 FOR LAY-IN CEILING. 1,2						
NOTES:				GENERAL NOTES:						
1. STEEL	-			A. SIZE OF NECK FOR ABOVE ARE SHOWN ON PLAN.						
2. WHITE	FINISH			B. SIZE OF GRILLE FOR ABOVE ARE SHOWN ON PLAN.						

	EXHAUST FAN SCHEDULE												
MARK	MANUFACTURER	MOD. NO.	WEIGHT (LBS)	CFM	S.P. (IN)	RPM	SONES	HP OR WATTS	VOLTS/ PHASE	FLA	MCA	MOCP	NOTES
EF-1	GREENHECK	SP-A70	12	70	0.375	838	0.9	23.3 WATTS	120/1	0.3	0.4	20A	1,2

NOTES

1) DIRECT DRIVE CEILING EXHAUST FAN WITH BACKDRAFT DAMPER, VIBRATION ISOLATORS, POWER DISCONNECT AND WALL CAP (MODEL WC-6).
2) SOLID STATE SPEED CONTROLLER FOR BALANCING.

2

PLOT DATE/TIME: 9/3/2021 9:56:16 AM

LAYOUT TAB: GENERAL NOTES, LEGENDS & SCHEDULES

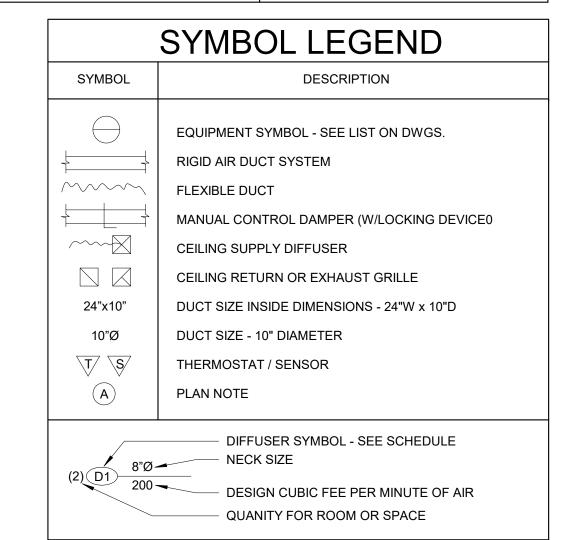
GENERAL MECHANICAL NOTES:

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 2. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED FOR CLARITY IN CERTAIN AREAS. THIS DOES NOT RELIEVE THE CONTRACTOR OF PROVIDING THESE ITEMS NOT SHOWN IN OTHER AREAS AS REQUIRED FOR A COMPLETE INSTALLATION.
- UNLESS NOTED OTHERWISE, LOCATE ALL ROOM THERMOSTATS 5'-0" ABOVE FINISH FLOOR.
- 4. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
- ALL DUCTWORK DIMENSIONS, AS SHOWN ON DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS. DUCT SIZE SHALL BE INCREASED IN SIZE TO COMPENSATE FOR INTERNAL LININGS.
- 6. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL PLANS, LIGHTING, AND OTHER ITEMS LOCATED IN CEILING.
- 7. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS
- 8. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION UNLESS NOTED OTHERWISE.
- 9. RUNS OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FEET.

PANELS, CONTROLS, AND VALVING.

- 10. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS.
- 11. TURNING VANES SHALL BE INSTALLED IN ALL RECTANGULAR DUCT ELBOWS THAT EXCEED 45° CHANGE IN DIRECTION.
- 12. INSTALL 1" DUCTLINER IN FIRST 15' OF ALL RETURN AIR DUCTS.
- 13. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL THE SMOKE DETECTOR IN THE DUCTWORK.
- 14. CONTROL RELAYS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL THE RELAY IN THE EQUIPMENT.

	ABBREVIATIONS						
AFF	ABOVE FINISHED FLOOR	MAU	MAKE-UP AIR UNIT				
BF	BELOW FLOOR	МН	MOUNTING HEIGHT				
BCU	BLOWER COIL UNIT	МВН	THOUSAND BTU/HR				
CFM	CUBIC FEET PER MINUTE	MOD	MOTORIZED DAMPER				
COP	COEFFICIENT OF PERFORMANCE	NIC	NOT INCLUDED IN CONTRACT				
CU	CONDENSING UNIT	NTS	NOT TO SCALE				
DN	DOWN	O.A.	OUTSIDE AIR				
DB	DRY BULB	PC	PLUMBING CONTRACTOR				
DU	DUCTLESS UNIT	PD	PRESSURE DROP				
EA	EXHAUST AIR	RA	RETURN AIR				
EAT	ENTER AIR TEMPERATURE	RH	RELATIVE HUMIDITY				
EC	ELECTRICAL CONTRACTOR	RPM	REVOLUTIONS PER MINUTE				
ECH	ELECTRIC CEILING HEATER	RTU	ROOFTOP UNIT				
EER	ENERGY EFFICIENCY RATIO	SA	SUPPLY AIR				
EF	EXHAUST FAN	SD	SMOKE DETECTOR				
ESP	EXTERIOR STATIC PRESSURE	SF	SUPPLY FAN				
EUH	ELECTRIC UNIT HEATER	STR	STARTER (MOTOR)				
EWH	ELECTRIC WALL HEATER	TS	TIP SPEED				
FD	FIRE DAMPER	TSP	TOTAL STATIC PRESSURE				
FPD	FEET PER MINUTE	(TYP)	TYPICAL				
GC	GENERAL CONTRACTOR	TZ	TRANSFORMER				
GUH	GAS UNIT HEATER	UNO	UNLESS NOTED OTHERWISE				
HP	HORSEPOWER	WH	WATER HEATER				
KW	KILOWATTS	W/	WITH				
L	LOUVER	WB	WET BULB				
LAT	LEAVING AIR TEMPERATURE	W/O	WITHOUT				
		WP	WEATHER PROOF				

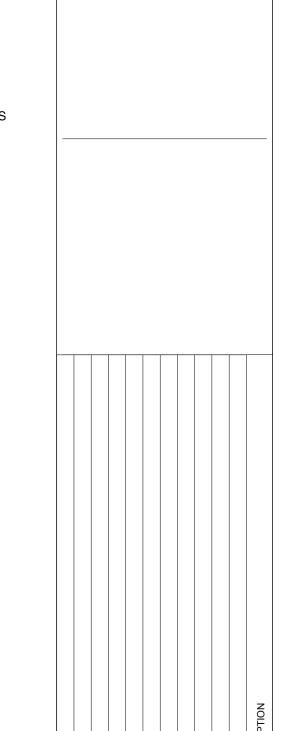




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of Charleston - Police Office
Renovations
Virginia Street East Charleston, WV 25301
September 29, 2021

DRAWN: KES DATE: 09/03/2021
CHECKED: TTG DATE: 09/03/2021
APPROVED: TTG DATE: 09/03/2021

010-10145

PROJECT No.

GENERAL NOTES, LEGENDS & SCHEDULES

M1.01

- I. DESCRIPTION OF THE WORK: A. THE CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT AS INDICATED ON THE DRAWINGS. ITEMS NOT LISTED OR DETAILED, BUT REQUIRED FOR INSTALLATION OF A COMPLETE, FULLY FUNCTIONAL HEATING, AIR CONDITIONING AND VENTILATION
- SYSTEM SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. B. THE EXTENT OF THE MECHANICAL WORK IS INDICATED ON THE DRAWINGS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING FACTORY PROVIDED ACCESSORIES.
- C. THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE DRAWINGS. SPECIFICATIONS, APPLICABLE REQUIREMENTS OF THE MANUFACTURERS OF THE EQUIPMENT AND LOCAL CODE REQUIREMENTS, AND IN ACCORDANCE WITH SMACNA STANDARDS AND THE LATEST EDITIONS OF THE STATE BUILDING CODES, NFPA-90A, AND NFPA-101

II. OPERATION MANUALS

A. MAINTENANCE MANUALS AND INSTRUCTIONS: FURNISH THREE (3) SETS OF COMPLETE OPERATING INSTRUCTIONS COVERING ENTIRE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM.

III. SYSTEM REQUIREMENTS

- A. NOISE AND VIBRATION: EQUIPMENT SHALL OPERATE QUIETLY AND THE DESIGN OF THE SUPPORTS SHALL BE SUCH THAT THE OPERATION OF THE EQUIPMENT SHALL CAUSE NO PERCEPTIBLE VIBRATION IN THE FLOORING ADJACENT TO THE EQUIPMENT, NOR CAUSE, DIRECTLY OR INDIRECTLY, VIBRATION OR OBJECTIONABLE NOISE IN ANY
- OTHER PORTION OF THE BUILDING AND/OR IN THE BUILDING STRUCTURE ITSELF. B. FLASHING: ALL FLASHING REQUIRED FOR PENETRATION OF ROOF SURFACES BY HVAC SYSTEM, VENTS, PIPE CURBS, ETC. SHALL BE INCLUDED UNDER THE GENERAL CONTRACTOR'S SCOPE OF WORK AND SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE ROOFING MANUFACTURER.
- C. FOUNDATIONS: FURNISH ALL FOUNDATIONS FOR EQUIPMENT COVERED IN THE SPECIFICATIONS, AS A PART OF THIS SECTION, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

IV. WARRANTY:

A. FURNISH A FIVE (5) YEAR WARRANTY ON ALL COMPRESSORS, A 10 YEAR WARRANTY ON HEAT EXCHANGERS, AND A ONE (1) YEAR SERVICE AND GUARANTEE ON ALL CONTROLS, COMPRESSORS, EQUIPMENT AND MATERIALS.

V. MECHANICAL SUBMITTALS

PROVIDE SIX COPIES OF EACH SUBMITTAL.

B. SUBMITTALS ARE REQUIRED ON THE FOLLOWING ITEMS:

1. FLEXIBLE DUCT AND FITTINGS

2. DUCT INSULATION

- 3. EXHAUST FANS 4. ROOF TOP UNITS
- MAKE-UP AIR UNITS 6. DIFFUSERS/GRILLES
- 7. HEATERS
- 8. CIRCULATING FANS
- VI. AS BUILT DRAWINGS A. FURNISH THE OWNER WITH 3 SETS OF AS-BUILT DRAWINGS UPON COMPLETION OF THE WORK.

PART 2 - PRODUCTS

- I. SHEET METAL WORK. NOTE: THE INSTALLATION OF THE HVAC SYSTEM. INCLUDING BUT NOT LIMITED TO, RETURN AND SUPPLY DROPS, TRUNK LINES, BRANCH LINES AND DIFFUSERS SHALL BE COMPLETED IN SUCH A MANNER TO PRESENT A SYSTEM SUITABLE FOR THE INTENDED PURPOSE. ANY PART OF THE SYSTEM NOT CONFORMING TO THE ABOVE PURPOSE SHALL BE REMOVED AND REPLACED BY THIS CONTRACTOR
- A. SUPPLY GALVANIZED SHEET METAL WORK IN ACCORDANCE WITH ASHRAE OR SMACNA STANDARDS. SIZE OF DUCT INDICATED ON DRAWINGS IS FINISHED INSIDE DIMENSION.
- B. PROVIDE OFFSETS, ELBOWS, AND TRANSITIONS IN DUCTWORK WHERE NECESSARY, WHETHER OR NOT SHOWN.
- C. USE WEIGHTS, BRACING, JOINTS, AND ALL DETAILS IN ACCORDANCE WITH SMACNA. D. RECTANGULAR DUCTS OVER 12 INCHES WIDE SHALL BE CROSS BROKEN EXCEPT
- WHERE DUCTWORK IS TO BE INSULATED. E. MAKE INTERIOR OF DUCT SMOOTH AND JOINTS AIR TIGHT. WHERE NECESSARY TO ENSURE TIGHTNESS, CAULK JOINTS. MAKE THE ENTIRE INSTALLATION RIGID WITH
- DUCTWORK FREE FROM RATTLES AND AIR NOISES WHEN IN OPERATION. MAKE ELBOWS WITH INSIDE RADIUS EQUAL TO THE WIDTH OF THE DUCT EXCEPT WHERE OTHERWISE SPECIFIED OR NECESSITATED BY UNAVOIDABLE SPACE CONDITIONS. WHERE INSIDE RADIUS IS LESS THAN 3/4 (THREE FOURTHS) THE DUCT WIDTH, MULTIPLE TURNING VANES SHALL BE PROVIDED. PROVIDE SQUARE ELBOWS
- WITH TUTTLE AND BAILEY "DUCTURNS" OR BARBER COLEMAN "AIRTURNS". G. INCLUDE ANGLE OF DIVERGENCE FOR ENLARGEMENT NOT TO EXCEED 15 DEGREES WHERE SPACE CONDITIONS PERMIT. INCLUDED ANGLE OF CONVERGENCE FOR CONTRACTING NOT TO EXCEED 30 DEGREES.
- H. PROVIDE FLEXIBLE DUCT CONNECTIONS AT CONNECTION POINTS TO AC UNITS FOR BOTH SUPPLY AND RETURN DUCTS, EXHAUST FANS, AND AT OTHER LOCATIONS INDICATED ON THE DRAWINGS. FLEXIBLE CONNECTIONS ARE TO BE MADE WITH WOVEN CANVAS COLLARS NOT LESS THAN TWO INCHES (2") LONG. SECURE COLLARS TO THE DUCT AND FAN CONNECTIONS BY GALVANIZED CHANNELS. PROVIDE A BRAIDED COPPER BRIDGE STRAP ACROSS FLEXIBLE CONNECTIONS. PROVIDE FLEXIBLE CONNECTIONS AT CONNECTION TO EACH FAN.
- INSTALL REGISTERS, GRILLES AND DIFFUSERS AS INDICATED. J. SUPPLY BARBER-COLEMAN CO. "DEFLECTROLS", OR TUTTLE AND BAILEY, "SANITROLS"
- WITH ALL DIFFUSERS, REGISTERS AND WHERE OTHERWISE INDICATED. K. ALL TAPS INTO MAIN DUCT FOR BRANCH LINES SHALL BE MADE WITH SPIN-IN FITTINGS WITH DAMPERS. SPIN-IN FITTINGS SHALL BE METALAIRE MBSD.

II. INSULATED FLEXIBLE DUCT

A. INSULATED FLEXIBLE DUCT MAY BE USED IN MAXIMUM LENGTHS OF 5'-0" PER BRANCH RUN. THE BALANCE OF THE RUN SHALL BE HARD PIPE WITH 1" INSULATED SLEEVE. FLEXIBLE DUCT SHALL BE OWENS CORNING INL25.

III. MANUAL DAMPERS

- A. PROVIDE MANUAL LOUVER DAMPERS WHERE SHOWN ON THE PLANS AND WHERE NECESSARY FOR THE PROPER REGULATION OF THE AIR HANDLING SYSTEM, AND SO LOCATE AS TO BE ACCESSIBLE AFTER THE BUILDING IS COMPLETED, I.E., BY REMOVING A MARKED TILE, ACCESS PANEL OR OTHER APPROVED METHOD. DAMPERS SHALL BE AIR BALANCE NO. AC116.
- B. WHERE LOUVER DAMPERS OR SPLITTER DAMPERS ARE LOCATED IN CONCEALED CUTS, PROVIDE WITH MODEL 301, 302, 900, 901, OR 914 OPERATORS, AS REQUIRED. MANUFACTURER: YOUNG REGULATOR COMPANY.
- C. FOR ALL OTHER MANUAL DAMPERS, PROVIDE A HAND LEVER WITH A QUADRANT AND SET SCREW. PROVIDE BEARINGS AT BOTH ENDS OF THE SHAFT. CLEARLY MARK ALL DAMPER OPERATORS TO INDICATE "OPEN" AND "CLOSED" POSITIONS.
- D. INSTALL NFPA APPROVED AND U.L. LABELED FIRE DAMPERS IN ALL LOCATIONS INDICATED OR REQUIRED BY LOCAL AND OTHER ORDINANCES AND CODES AND REQUIREMENTS, APPROVAL OF OWNER FOR ACCESS DOOR LOCATION REQUIRED.

IV. BOLTS, INSERTS, SLEEVES AND ESCUTCHEONS

- A. INSTALL SLEEVES WHERE PIPES PASS THROUGH WALLS, COLUMNS, BEAMS, OR FLOORS. SLEEVES: GALVANIZED STEEL OR WROUGHT IRON PIPE. CUT SLEEVES PASSING THROUGH WALLS AND FLOORS ABOVE GRADE FLUSH WITH THE WALL. INSTALL SLEEVES OF SUFFICIENT DIAMETER TO ALLOW FOR EXPANSION AND CONTRACTION AND PIPE COVERING.
- B. PROVIDE NICKLE-PLATED CAST IRON ESCUTCHEONS WHERE PIPES PASS THROUGH FLOORS, CEILINGS OR WALLS IN FINISHED AREAS.

- A. MOTORS FOR ALL EQUIPMENT COVERED BY THESE SPECIFICATIONS SHALL BE INSTALLED BY THIS CONTRACTOR. WHERE OVERSIZE MOTORS ARE SPECIFIED, THIS CONTRACTOR SHALL INCLUDE THE COST OF INSTALLING THE OVERSIZE MOTOR KITS.
- OPEN FRAME MOTORS SHALL BE RATED ON A 40 DEGREES C TEMPERATURE RISE BASIS. TOTALLY ENCLOSED MOTORS SHALL BE RATED ON A 55 DEGREES C TEMPERATURE RISE BASIS. THE LOAD TO WHICH EACH MOTOR IS CONNECTED SHALL NOT CAUSE THE MOTOR RUNNING CURRENT TO EXCEED THE NAMEPLATE **AMPERAGE**
- C. MOTORS: INDUCTION TYPE OF DESIGN SUITED TO THE SERVICE FOR WHICH THEY ARE USED UNLESS OTHERWISE SPECIFIED.
- D. WINDINGS: PROVIDE COPPER WINDINGS IN ALL MOTORS.

A. CONDENSATE DRAIN LINES FOR HVAC EQUIPMENT SHALL BE SCHEDULE 40 PVC.

VII. INSULATION

- A. INSULATE ALL SUPPLY AND RETURN AIR DUCTS WITH 2" OWENS-CORNING FIBERGLASS ALL SERVICE FACED DUCT WRAP. APPLY PER MANUFACTURER'S RECOMMENDATIONS. ALL INSULATION SHALL BE R-6 OR GREATER.
- B. ALL EXTERIOR DUCT SHALL RECEIVE

VIII. GRILLES. REGISTERS AND DIFFUSERS

- A. ALL SUPPLY DIFFUSERS, AND RETURN GRILLES SHALL BE AS SCHEDULED ON DRAWINGS, WITH OFF-WHITE BAKED ON ENAMEL FINISH.
- B. ALL EXHAUST GRILLES SHALL BE AS SCHEDULED ON THE DRAWINGS, WITH OFF-WHITE BAKED ON ENAMEL FINISH.
- C. CONTRACTOR SHALL INSULATE BACKS OF ALL SUPPLY DIFFUSERS.

XI. SPLIT-SYSTEM HEAT PUMPS

- AIR HANDLING UNITS
- A. CONCEALED EVAPORATOR COMPONENTS: 1. CHASSIS: GALVANIZED STEEL WITH FLANGED EDGES, REMOVABLE PANELS FOR

SERVICING, AND INSULATION ON BACK OF PANEL. INSULATION: FACED, GLASS-FIBER DUCT LINER.

- REFRIGERANT COIL: COPPER TUBE, WITH MECHANICALLY BONDED ALUMINUM
- FINS AND THERMAL-EXPANSION VALVE. COMPLY WITH ARI 206/110. 4. AIRSTREAM SURFACES: SURFACES IN CONTACT WITH THE AIRSTREAM SHALL
- COMPLY WITH REQUIREMENTS IN ASHRAE 62.1.

5. FILTERS: REPLACEABLE, MERV 8. 6. CONDENSATE DRAIN PANS:

- A. FABRICATED WITH TWO PERCENT SLOPE IN AT LEAST TWO PLANES TO COLLECT CONDENSATE FROM COOLING COIL AND TO DIRECT WATER TOWARD DRAIN CONNECTION.
 - 1) DEPTH: A MINIMUM OF 2 INCHES (50 MM) DEEP. B. DRAIN CONNECTION: LOCATED AT LOWEST POINT OF PAN AND SIZED TO
 - PREVENT OVERFLOW. TERMINATE WITH THREADED NIPPLE ON BOTH ENDS OF PAN. 1) MINIMUM CONNECTION SIZE: NPS 1.

2. CONDENSING UNITS

- A. AIR-COOLED, COMPRESSOR-CONDENSER COMPONENTS: CASING: STEEL, FINISHED WITH BAKED ENAMEL, WITH REMOVABLE PANELS FOR ACCESS TO CONTROLS. WEEP HOLES FOR WATER DRAINAGE, AND MOUNTING HOLES IN BASE. PROVIDE BRASS SERVICE VALVES, FITTINGS, AND GAGE PORTS ON EXTERIOR OF CASING.
- 2. COMPRESSOR: HERMETICALLY SEALED WITH CRANKCASE HEATER AND MOUNTED ON VIBRATION ISOLATION DEVICE. COMPRESSOR MOTOR SHALL HAVE THERMAL- AND CURRENT-SENSITIVE OVERLOAD DEVICES, START CAPACITOR,

RELAY, AND CONTACTOR. A. COMPRESSOR TYPE: SCROLL

- B. REFRIGERANT: R-410A. C. REFRIGERANT COIL: COPPER TUBE, WITH MECHANICALLY BONDED
- ALUMINUM FINS AND LIQUID SUBCOOLER. COMPLY WITH ARI 206/110. 3. HEAT-PUMP COMPONENTS: REVERSING VALVE AND LOW-TEMPERATURE-AIR CUTOFF THERMOSTAT.
- 4. FAN: ALUMINUM-PROPELLER TYPE, DIRECTLY CONNECTED TO MOTOR. 5. MOTOR: PERMANENTLY LUBRICATED. WITH INTEGRAL THERMAL-OVERLOAD PROTECTION.
- 6. LOW AMBIENT KIT: PERMITS OPERATION DOWN TO 30 DEG F.
- ACCESSORIES A. THERMOSTAT: PROGRAMMABLE TO REMOTELY CONTROL COMPRESSOR AND EVAPORATOR FAN, WITH THE FOLLOWING FEATURES:
 - COMPRESSOR TIME DELAY. 24-HOUR TIME CONTROL OF SYSTEM STOP AND START.
- 3. LIQUID-CRYSTAL DISPLAY INDICATING TEMPERATURE, SET-POINT TEMPERATURE, TIME SETTING, OPERATING MODE, AND FAN SPEED. 4. FAN-SPEED SELECTION INCLUDING AUTO SETTING.
- AUTOMATIC-RESET TIMER TO PREVENT RAPID CYCLING OF COMPRESSOR. REFRIGERANT LINE KITS: SOFT-ANNEALED COPPER SUCTION AND LIQUID LINES FACTORY CLEANED, DRIED, PRESSURIZED, AND SEALED; FACTORY-INSULATED SUCTION LINE WITH FLARED FITTINGS AT BOTH ENDS. D. DRAIN HOSE: FOR CONDENSATE.
- E. CONDENSATE OVERFLOW SENSOR SWITCH TO SHUT UNIT OFF IN EVENT OF OVERFLOW.
- A.MANUFACTURERS LISTED SHALL BE CONSIDERED AS ACCEPTABLE.
- 1. AC UNITS: A.YORK **B.TRANE**
- C.CARRIER 2. EXHAUST FANS:
- A.GREENHECK B.LOREN COOK COMPANY C.PENN VENTILATION
- A.PRICE INDUSTRIES B.TITUS

3. GRILLES, REGISTERS, AND DIFFUSERS:

C.NAILOR INDUSTRIES, INC.

PART 3 - EXECUTION

I. SUPERVISION OF ELECTRICAL WORK

A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISION OF ALL WIRING (INCLUDING CONTROL WIRING) OF EQUIPMENT INCLUDED IN THIS SECTION AND SHALL FURNISH ALL NECESSARY DIAGRAMS REQUIRED, INCLUDING CONTROL WIRING DIAGRAMS. THIS CONTRACTOR SHALL MOUNT OR SUPERVISE MOUNTING OF ALL CONTROL DEVICES.

II. PAINTING

- A. EXCEPT AS SPECIFIED HEREIN, ALL PAINTING WILL BE DONE BY OTHERS. LEAVE WORK FREE FROM RUST, DIRT, GREASE AND PLASTER.
- B. EQUIPMENT WITH A FACTORY APPLIED FINISH SHALL HAVE SCRATCHES, CHIPS, ETC. PRIMED AND TOUCHED UP WITH MATERIALS WHICH WILL PROTECT THE SURFACE AND MATCH THE ADJACENT AREAS.
- C. INTERIOR OF SHEETMETAL DUCT WHICH IS VISIBLE THROUGH REGISTERS OR GRILLES SHALL BE PAINTED FLAT BLACK BY THIS CONTRACTOR.

III. CLEANING AND ADJUSTMENTS.

A. UPON COMPLETION OF WORK, CLEAN, OIL AND GREASE ALL FANS, MOTORS, OTHER RUNNING EQUIPMENT AND APPARATUS AND MAKE CERTAIN THAT ALL SUCH APPARATUS AND MECHANISMS ARE IN PROPER WORKING ORDER AND MADE READY FOR TEST.

IV. IDENTIFICATION

- A. FURNISH AND INSTALL NAMEPLATES ON ALL HVAC EQUIPMENT PROVIDED BY OWNER AND CONTRACTOR. NAMEPLATES SHALL BE MADE FROM WHITE ENGRAVING STOCK WITH BLACK LETTERS AND BLACK FOUR EDGE BEVEL. WORDING SHALL DESCRIBE I TEMS USING SAME DESIGNATION AS THE ELECTRICAL PANEL SCHEDULE, AND NAMEPLATES SHALL BE ATTACHED USING PROPER SIZE AND TYPE STAINLESS-STEEL
- BOLTS OR SELF-DRILLING SCREWS. B. GLUE-ON, TAPE-ON OR TAPE TYPE NAMEPLATES ARE NOT ACCEPTABLE.

V. TEST AND BALANCE A. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM.

B. CUT INSULATION AND DUCTS FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY TO ALLOW ADEQUATE PERFORMANCE OF PROCEDURES. AFTER TESTING AND BALANCING, CLOSE PROBE HOLES AND PATCH INSULATION WITH NEW MATERIALS IDENTICAL TO THOSE REMOVED. RESTORE VAPOR BARRIER AND FINISH ACCORDING TO THE INSULATION SPECIFICATIONS FOR THIS PROJECT.

C. MARK EQUIPMENT SETTINGS WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL, INCLUDING DAMPER CONTROL POSITIONS, VALVE INDICATORS, FAN-SPEED-CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES TO SHOW FINAL SETTINGS.

D. MAKE ANY CHANGES IN THE PULLEYS, BELTS AND DAMPERS AS REQUIRED FOR CORRECT BALANCE AS RECOMMENDED BY THE TEST AND BALANCE AGENCY AT NO

ADDITIONAL COST TO THE OWNER.

E. TAB REPORTS: SUBMIT TESTING, ADJUSTING, AND BALANCING REPORTS. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEM HAS BEEN TESTED, ADJUSTED AND BALANCED; ARE ACCURATE REPRESENTATION OF HOW THE SYSTEM HAS BEEN INSTALLED; ARE A TRUE REPRESENTATION HOW THE SYSTEMS ARE OPERATING AT THE COMPLETION OF THE TESTING, ADJUSTING, AND BALANCING PROCEDURES; AND ARE AN ACCURATE RECORD OF ALL FINAL QUANTITIES MEASURED, TO ESTABLISH NOMINAL OPERATING VALUES OF THE SYSTEMS.

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DRAWN: KES DATE: 09/03/2021 CHECKED: TTG DATE: 09/03/2021

PROJECT No.

C

of

City

SPECIFICATIONS

010-10145

APPROVED: TTG DATE: 09/03/2021

PLAN NOTES:

1.) REMOVE EXISTING AIR HANDLER AND ASSOCIATED DUCTWORK, CONTROLS, ROOF MOUNTED CONDENSER, REFRIGERANT PIPING AND HANGERS, COMPLETE.

(2.) REMOVE EXISTING DUCT HEATER AND CONTROLS COMPLETE.

(3.) REMOVE EXISTING SUPPLY / RETURN AIR DEVICE AND ASSOCIATED DUCTWORK. CAP CONNECTION TO MAIN DUCT AND SEAL AIRTIGHT.

4.) EXISTING DUCT TO REMAIN AND BE REUSED.

(5.) REMOVE EXISTING HOT WATER RADIATOR. CAP CONNECTIONS FLUSH TO WALL AND SEAL WATER TIGHT.

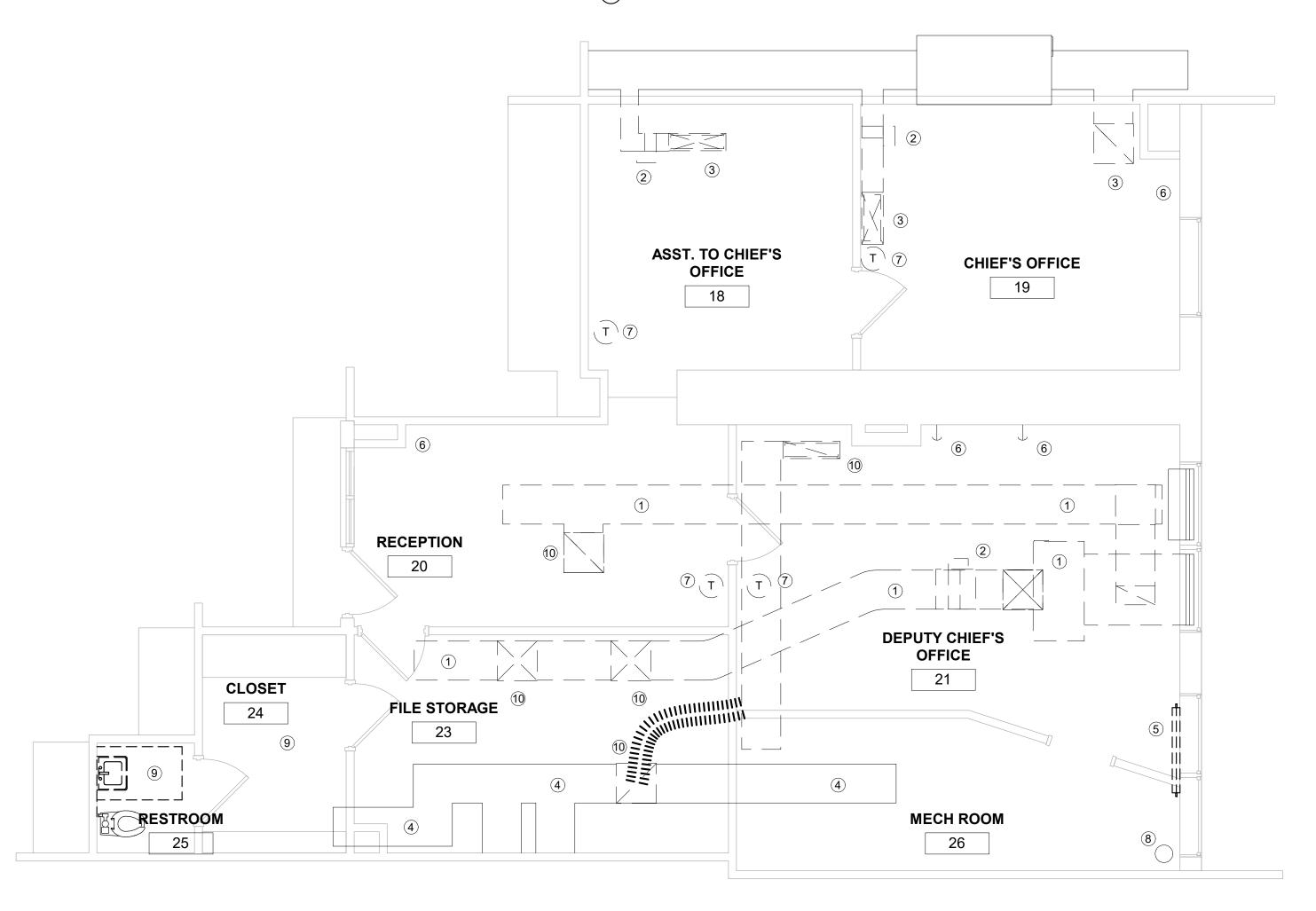
(6.) REMOVE EXISTING PIPING AND CAP FLUSH TO WALL AND SEAL WATER TIGHT.

(7.) EXISTING THERMOSTAT TO BE REMOVED.

8. EXISTING CONDENSATE DRAIN RISER TO REMAIN AND BE REUSED.

9. EXISTING TO REMAIN IN THIS AREA.

(10.) REMOVE EXISTING SUPPLY / RETURN AIR DEVICE AND ASSOCIATED DUCTWORK.



PARTIAL THIRD FLOOR MECHANICAL DEMOLITION PLAN

MD3.01 1/4" = 1'-0"



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PROJECT No. 010-10145

PARTIAL THIRD FLOOR
MECHANICAL
DEMOLITION PLAN
SHEET NO.

MD3.01

(3.) 40 X 20 X 18 LONG INSULATED OUTSIDE AIR PLENUM.

(4.) MOTORIZED DAMPER INTERLOCKED WITH AHU-1. BALANCE TO 50 CFM.

(5.) MOTORIZED DAMPER INTERLOCKED WITH AHU-2. BALANCE TO 60 CFM.

(6.) REFRIGERANT PIPING TO ROOF MOUNTED CONDENSING UNIT. FOLLOW PATH OF EXISTING REFRIGERANT PIPING.

(7.) 1" CONDENSATE DRAIN PIPING WITH ELASTOMERIC INSULATION.

(8.) CONNECT 1" CONDENSATE DRAIN TO EXISTING 1-1/2" CONDENSATE RISER.

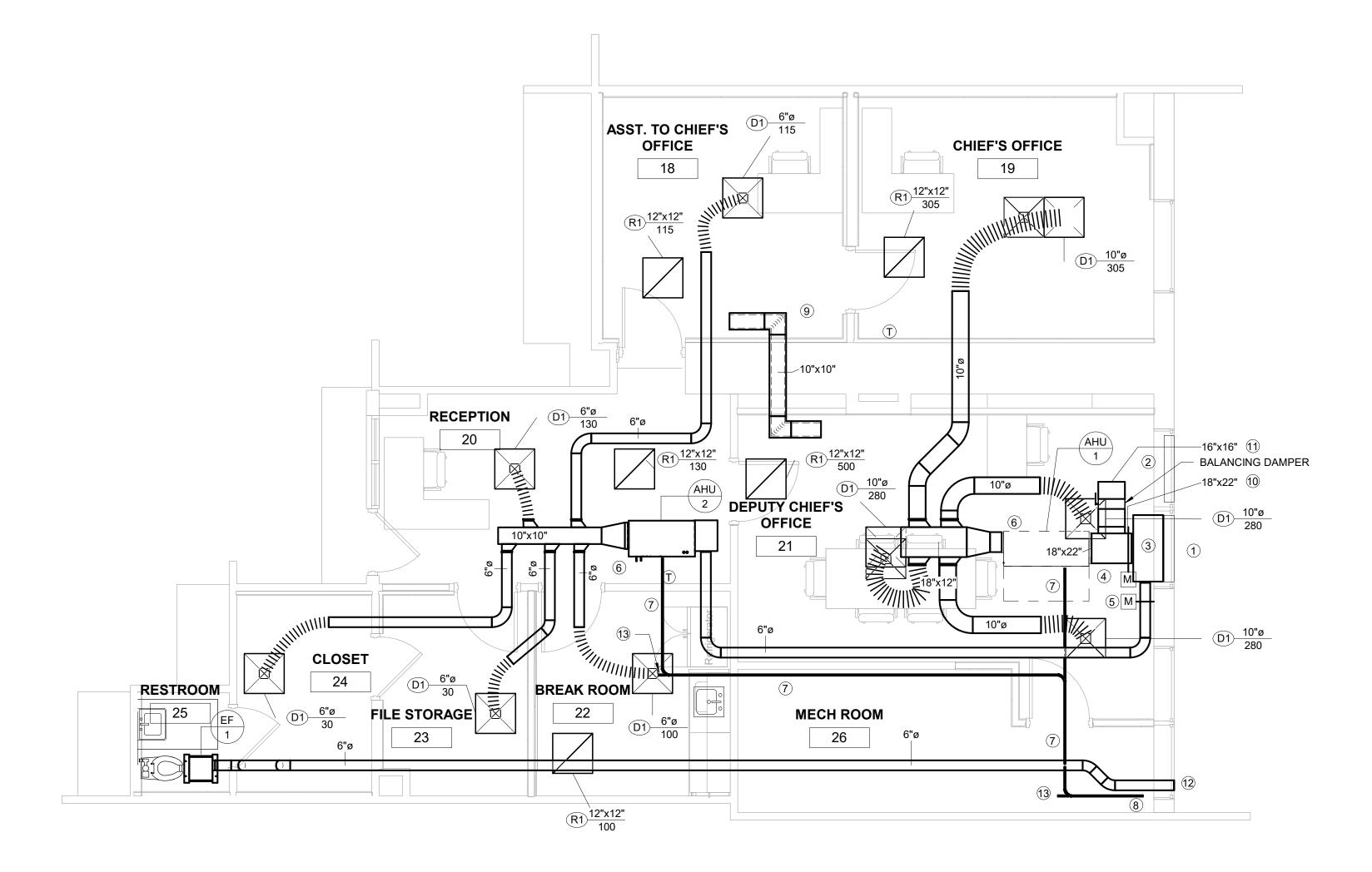
9.) TRANSFER AIR DUCT WITH 1" SOUND LINING ABOVE CEILING.

(10) DUCT TO BE FULL SIZE OF UNIT INLET WITH TRANSITION TO PLENUM AS REQUIRED.

(11) OPEN END RETURN AIR DUCT.

(12) TERMINATE EXHAUST DUCT WITH WALL CAP A MIMIMUN OF 10 FEET FROM OUTSIDE AIR INTAKE LOUVER.

(13) PROVIDE CLEANOUT IN CONDENSATE PIPING.



1 PARTIAL THIRD FLOOR MECHANICAL NEW WORK PLAN

1/4" = 1'-0"



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NO. BY DATE DESCRIPTION

City of Charleston - Police Office Renovations 501 Virginia Street East Charleston, WV 25301

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PROJECT No. 010-10145

PARTIAL THIRD FLOOR MECHANICAL NEW WORK PLAN

M3.01







2 MECHANICAL ROOF NEW WORK PLAN M3.02 1/8" = 1'-0"

1 MECHANICAL ROOF DEMO PLAN M3.02 1/8" = 1'-0"

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501 Virginia Street East Charleston, WV 25301
September 29, 2021

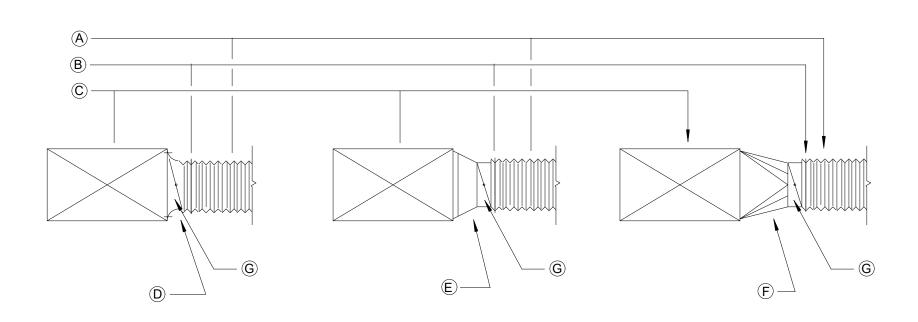
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010-10145

MECHANICAL ROOF PLAN

M3.02



- (A) FLEX DUCT
- (B) PLASTIC TIE BAND
- © DUCT MAIN (D) BELLMOUTH TAKE-OFF BUCKLEY AIR PRODUCTS

WITH DAMPER

TYPE BM-D OR EQUAL

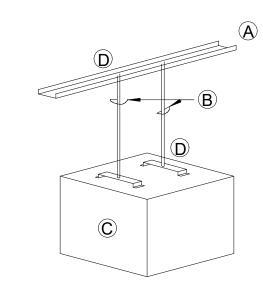
(E) CONICAL SPIN-IN FITTING WITH DAMPER-GENFLEX MODEL SM-2D OR EQUAL (F) FABRICATED SQUARE TO

ROUND TAP WITH DAMPER-

AREA OF TAP TO BE

- 1.5xAREA OF BRANCH © VOLUME DAMPER
- 1 ALTERNATE METHODS OF FELX DUCT CONNECTIONS

M5.01 NO SCALE



- PROVIDE STEEL SUPPORTS BETWEEN JOISTS AS REQUIRED.
- (B) 3/8" HANGER ROD, ONE AT EACH CORNER (MIN). MINIMIZE LENGTH OF ROD AND PROVIDE SWAY BRACING AS REQUIRED.
- SUSPENDED EQUIPMENT
- ATTACH THREADED ROD TO STEEL SUPPORT AND EQUIPMENT SUPPORT WITH NUTS AND LOCK WASHERS

NOTES:

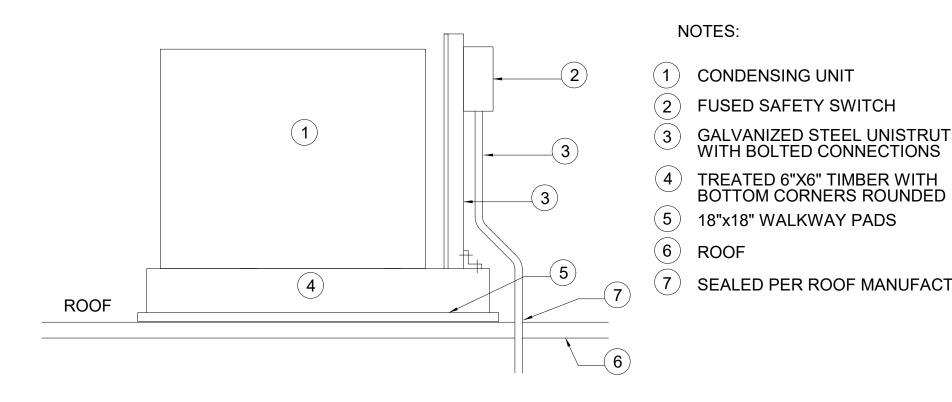
GALVANIZED STEEL UNISTRUT WITH BOLTED CONNECTIONS

SEALED PER ROOF MANUFACTURER

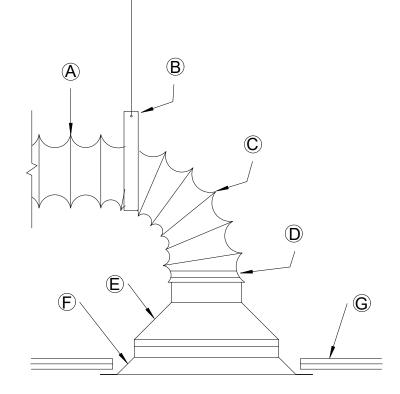
2 DETAIL OF SUSPENDED EQUIPMENT

M5.01 NO SCALE





4 DETAILS OF CONDENSING UNIT SUPPORT ON ROOF M5.01 NO SCALE

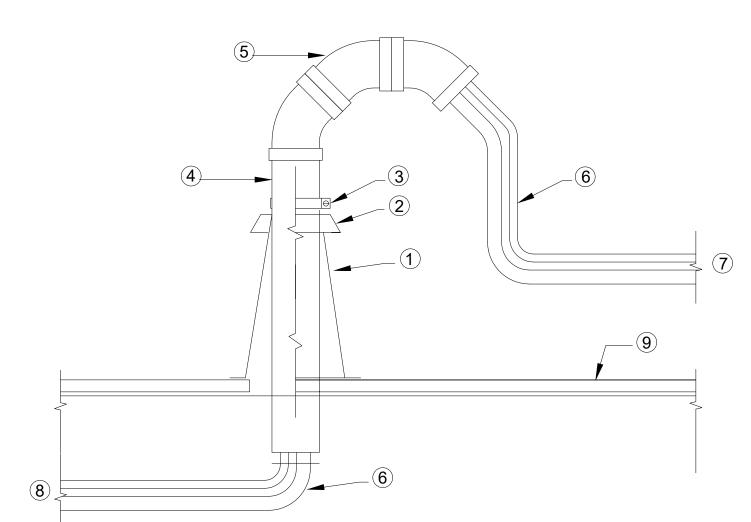


- INSULATED FLEXIBLE DUCT (8'-0" MAX. LENGTH)
- HANGER BANDS IN ACCORDANCE WITH FLEX MANUFACTURERS INSTRUCTIONS
- © ALL BENDS TO BE LONG RADIUS
- (D) PLASTIC OR STAINLESS STEEL TIE BAND
- SQUARE TO ROUND ADAPTER OR ROUND TRANSITION
- (WHERE REQ'D.)
- (F) CEILING DIFFUSER OR GRILLE
- © CEILING

ELEVATION

3 INSTALLATION DETAILS FOR FLEXIBLE DUCTS

M5.01 NO SCALE



- 1 TALL CONE FLASHING
- (2) STORM COLLAR
- (3) STAINLESS STEEL BAND
- (4) 4" SCH. 40 PVC PIPE
- (5) 4" SCH. 40 PVC 45° ELBOW FITTING
- (6) REFRIGERANT PIPING

5 DETAILS OF REFRIGERANT PIPING THROUGH ROOF M5.01 NO SCALE

7) TO CONDENSING UNIT

8 TO DUCTLESS UNIT

9 ROOF

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Charleston - Police Office Renovations inia Street East Charleston, WV 25301 of

CHECKED: TTG DATE: 09/03/2021 APPROVED: TTG DATE: 09/03/2021

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MECHANICAL DETAILS

010-10145

M5.01

GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE

CEILING MOUNTED LED LIGHT FIXTURE

SURFACE OR RECESSED LED LIGHT FIXTURE

SURFACE OR RECESSED LED LIGHT FIXTURE

WALL MOUNTED EMERGENCY LIGHTING UNIT

WALL MOUNTED LED LIGHT FIXTURE

WITH EMERGENCY BATTERY PACK

SPEAKER

MANUAL FIRE ALARM PULL STATION

FIRE ALARM CONTROL PANEL

HEAT DETECTOR

1" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING

TELEPHONE AND/OR DATA OUTLET, SINGLE-GANG BOX W/

FIRE ALARM SYSTEM/EMERGENCY GENERATOR

GENERAL ELECTRICAL NOTES ELECTRICAL SYMBOL LEGEND

18" AFF

18" AFF

66" AFF

48" AFF

48" AFF

72" AFF

72" AFF

72" AFF

18" AFF

18" AFF

48" AFF

- 1. COORDINATE LOCATIONS OF CEILING-MOUNTED LIGHTING FIXTURES. SPEAKERS AND OTHER ITEMS WITH THE CEILING PATTERN AND MECHANICAL EQUIPMENT.
- 2. CENTER WALL-MOUNTED LIGHTING FIXTURES DIRECTLY OVER ANY RELATED LAVATORY, MIRROR OR OTHER EQUIPMENT.
- LOCATE FLOOR SERVICE FITTINGS, FLOOR BOXES AND FLOOR CONDUIT TERMINATIONS APPROXIMATELY AS INDICATED. EXACTLY AS NECESSARY OR AS DIRECTED TO COORDINATE WITH THE ASSOCIATED FURNISHINGS
- LOCATE DUPLEX RECEPTACLES DESIGNATED "EWC" TO BE CONCEALED BY THE ASSOCIATED WATER COOLER.
- 5. LOCATE SNAP SWITCHES APPROXIMATELY 4 TO 6 INCHES FROM THE LATCH SIDE OF THE RELATED DOOR FRAME WHERE POSSIBLE, EXCEPT AS NOTED OTHERWISE.
- 6. LOCATE SNAP SWITCHES DIRECTLY UNDER THERMOSTATS WHERE THEY ARE SHOWN IN CLOSE PROXIMITY (SEE MECHANICAL DRAWINGS).
- 7. LOCATE WALL BOXES APPROXIMATELY AS INDICATED, EXACTLY AS DIRECTED OR AS NECESSARY TO ACHIEVE SYMMETRY AND COORDINATED WITH THE BUILDING, FINISHES AND EQUIPMENT.
- 8. LOCATE ALL BOXES TO BE ACCESSIBLE.
- 9. MOUNT FLUSH BOXES WITH THEIR FRONT EDGES EVEN WITH THE FINISHED SURFACE OF COMBUSTIBLE MATERIALS, WITHIN 1/4 INCH OF NON-COMBUSTIBLE MATERIALS.
- 10. MOUNT SINGLE-GANG BOXES WITH THE LONGER DIMENSION VERTICLE EXCEPT AS NOTED OTHERWISE. MOUNT ALL BOXES AND PLATES PLUM.
- 11. DO NOT INSTALL BOXES BACK TO BACK ON BOTH SIDES OF A PARTITION. OFFSET BOXES A MINIMUM OF 6 INCHES EXCEPT AS NOTED OTHERWISE.
- 12. LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH THE REMOVAL OF CEILING TILE, OR WITH ACCESS TO EQUIPMENT THAT REQUIRES PERIODIC ADJUSTMENT OR
- 13. DO NOT SUPPORT RACEWAYS OR EQUIPMENT FROM PIPES, DUCTS, OR A CEILING SUSPENSION SYSTEM.
- 14. ALL WIRE SIZE SHALL BE #12 AWG THHW MINIMUM AND SIZED TO MANUFACTURERS SPECIFICATIONS.
- 15. INSTALL FEEDER RACEWAYS WITH NO MORE THAN 3 CURRENT-CARRING CONDUCTORS PLUS A NEUTRAL CONDUCTOR, PLUS A GROUND CONDUCTOR.
- 16. INDICATED BRANCH CIRCUIT CONDUCTOR SIZES ARE BASED ON NO MORE THAN 3 CURRENT- CARRYING CONDUCTORS AND A NON-CURRENT-CARRYING NEUTRAL CONDUCTOR IN EACH RACEWAY. WHERE THE NUMBER OF CONDUCTORS EXCEEDS THIS AMOUNT, ADJUST THE CONDUCTOR SIZES IF AND AS NECESSARY TO ACCOUNT FOR DERATING THEIR AMPACITY IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- 17. FOR EACH INDICATED CONNECTION TO EQUIPMENT PROVIDE AN OUTLET BOX AND FLEXIBLE CONDUIT AS APPROPRIATE FOR THE ASSOCIATED EQUIPMENT. WHERE THE EQUIPMENT INCLUDES A CORD AND PLUG, PROVIDE A COMPATIBLE RECEPTACLE. WHERE REQUIRED BE CODE PROVIDE AN ADJACENT DISCONNECT SWITCH.
- 18. IN MECHANICAL ROOMS ADJUST LIGHTING FIXTURE LOCATIONS AS NECESSARY TO COORDINATE WITH EQUIPMENT AND TO PROVIDE OPTIMUM ILLUMINATION.
- 19. LOCATE TV AND DATA OUTLETS APPROXIMATELY AS SHOWN ON DRAWINGS. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
- 20. WHERE EMERGENCY LIGHTING FIXTURES ARE CONTROLLED BY ONE OR MORE WALL SWITCHES, PROVIDE AN UNSWITCHED CIRCUIT CONDUCTOR FOR OPERATION OF THE EMERGENCY CONTROLS.
- 21. WHERE LIGHTING FIXTURES ARE SHOWN CONTROLLED BY TWO SWITCHES, FOR TWO LEVEL CONTROL, CONNECT THE OUTSIDE LAMPS TO ONE SWITCH AND THE INSIDE LAMPS TO THE OTHER SWITCH.
- 22. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH DIMMED LIGHTING
- 23. COORDINATE OUTLET LOCATIONS AND CIRCUIT RATINGS WITH THE EQUIPMENT SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS AND WITH ALL EQUIPMENT AND FURNISHINGS SHOWN ON THE ARCHITECTURAL
- 24. EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH SPECIFICATIONS AND AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
- 25. ALL WORK SHALL COMPLY WITH NFPA 70.
- 26. ELECTRICAL BRANCH CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL
- 27. SIZE ALL FUSES FOR FUSED SAFETY SWITCHES WITH EQUIPMENT MANUFACTURER.

GENERAL FIRE ALARM NOTES

- PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE FIRE ALARM SYSTEM DEVICES AS INDICATED ON THE DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL WORK AS REQUIRED BY LOCAL AHJ AT NO ADDITIONAL COST TO THE OWNER.
- IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO PROVIDE A FIRE ALARM SYSTEM IN FULL COMPLIANCE WITH THE LATEST EDITION OF (NFPA 72, WV STATE FIRE CODE, AND ADA).
- 3. THIS BUILDING WILL BE FULLY SPRINKLED PER NFPA 13.
- 4. SUPPLY A 120 VOLT CONNECTION AS REQUIRED AT ALL SYSTEMS EQUIPMENT.
- DEVICES SHOWN ARE APPROXIMATE LOCATIONS. FIELD VERIFY ACTUAL CONDITIONS.
- DO NOT SUPPORT RACEWAYS FROM PIPES DUCTS OR CEILING SUSPENSION SYSTEM.
- EXPOSED RACEWAY AND BLANK COVERS SHALL BE PAINTEDTO MATCH EXISTING SURFACES.
- SURFACES DAMAGED BY THIS CONTRACTOR SHALL BE REPAIRED.
- 9. WHERE SURFACES ARE REQUIRED TO BE PATCHED OR REPAIRED, SURFACE SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
- 10. ALL JUNCTION BOX COVERS IN FIRE ALARM RACEWAY SHALL BE PAINTED
- 11. MOUNTING HEIGHT OF FIRE ALARM STROBE SHALL BE 80" AFF.
- 12. SYSTEM SHALL INTERFACE WITH HOOD SUPPRESSION SYSTEM PER NFPA.

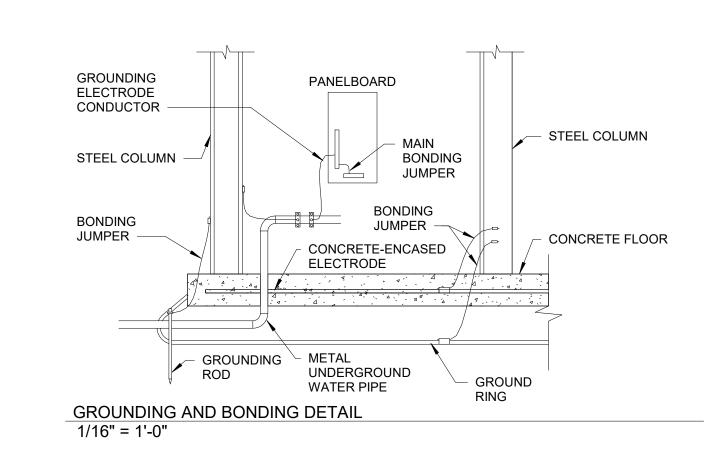
FIRE ALARM SYSTEM NOTES

- ALL EXTERIOR DOORS SHALL HAVE A PULL STATION MOUNTED ADJACENT TO THE DOOR. SPACING OF PULL STATIONS SHALL NOT EXCEED 200' ALONG PATH OF EGRESS.
- FIELD VERIFY LOCATION AND QUANTITY OF AIR HANDLING UNITS GREATER THAN 2000 CFM. PROVIDE A DUCT SMOKE DETECTOR IN THE RETURN AIR DUCT OF EACH UNIT. EACH AIR HANDLER DUCT SMOKE DETECTOR SHALL BE SEPARATELY ANNUNCIATED BY THE FIRE ALARM PANEL AND THE ANNUNCIATOR. PROVIDE REMOTE LED INDICATOR AT CEILING BELOW EACH DETECTOR.
- FIELD VERIFY LOCATION AND QUANTITY OF ELECTRICAL PANELS. PROVIDE A SMOKE DETECTOR IN EACH OF THESE ROOMS.
- PROVIDE SMOKE DETECTORS IN CORRIDOR A MAXIMUM 15' FROM EACH END AND A MAXIMUM OF 30' ON CENTER.
- PROVIDE STROBES IN ALL TOILETS.
- PROVIDE HORN/STROBES AS REQUIRED BY NFPA 72. SPACING AND SOUND LEVEL SHALL BE SUCH THAT THE AUDIBLE ALARM CAN BE EFFECTIVELY HEARD ABOVE THE AMBIENT NOISE LEVEL OBTAINED UNDER NORMAL OCCUPIED CONDITIONS.
- PROVIDE STROBES IN ALL PUBLIC SPACES EXCEPT COMMON AREAS AS DEFINED IN THE AMERICAN WITH DISABILITIES ACT. SPACING SHALL BE PER NFPA 72.

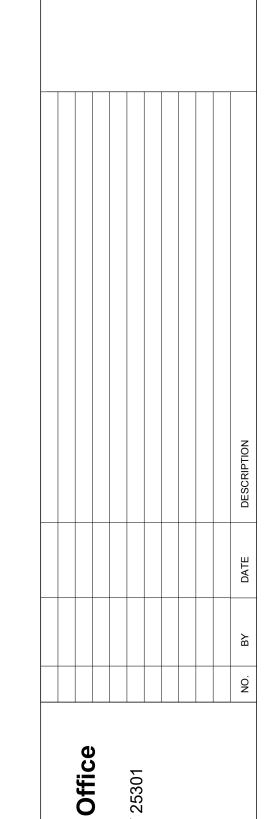
	LIGHTING FIXTURE SCHEDULE										
MARK	LAMP TYPE	MOUNTING	VOLT	MANUFACTURER	SERIES	DESCRIPTION	LUMENS	INPUT WATTS			
						2'X2' TROFFER LED					
F1	LED	CEILING, PANEL	120	LITHONIA	2TL2 33L FW xxx xxx LP840	WITH DIMMABLE CAT5 PLUG	3,340	29			
				AND PLAY DRIVER							
						2'X4' TROFFER LED					
F2 LED	LED	CEILING, PANEL	120	LITHONIA	2TL4 30L FW xxx xxx LP840	WITH DIMMABLE CAT5 PLUG	3,000	34			
						AND PLAY DRIVER					

GENERAL NOTES PERTAINING TO ALL FIXTURES:

- 1. VERIFY CEILING CONSTRUCTION TYPE WITH ARCHITECTURAL DRAWINGS TO DETERMINE WHETHER
- RECESSED LIGHTING FIXTURES SHALL BE FLANGE OR GRID TYPE MOUNTING.
- 2. ALL LIGHTING AND CONTROLS SHALL COMPLY WITH ASHRAE 2010.
- 3. LIGHTING FIXTURES SHALL COME COMPLETE WITH NECESSARY MOUNTING HARDWARE, DRIVERS AND CONTROLS.
- 4. All LIGHTS SHALL BE LED AND READILY AVAILABLE BY LOCAL VENDOR SUPPLY







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010-10145

LEGEND AND FIXTURE

SCHEDULE

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A. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY TO COMPLETELY INSTALL ELECTRICAL AND RELATED WORK INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.

II. CODES

A. ALL EQUIPMENT, WIRING AND THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), O.S.H.A. REQUIREMENTS, LIFE SAFETY CODE AND ALL APPLICABLE LOCAL AND STATE LAWS AND ORDINANCES. B. THE CONTRACTOR SHALL PAY ALL INSPECTION FEES AND PURCHASE ALL PERMITS REQUIRED FOR THIS WORK.

III. LOCATION OF EQUIPMENT

A. THE CONTRACTOR SHALL NOTE THAT THE ELECTRICAL DRAWINGS ARE INTENDED TO INDICATE ONLY THE EXTENT DIAGRAMMATICALLY, GENERAL CHARACTER AND LOCATION OF THE WORK, WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED, SHALL BE FURNISHED AND INSTALLED COMPLETE BY THIS CONTRACTOR AT HIS EXPENSE.

IV. ROUGH-IN A. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH SHOP DRAWINGS, FIELD MEASUREMENTS, AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO

BE CONNECTED PRIOR TO ROUGH-IN. B. OWNER RESERVES TO RELOCATE ELECTRICAL SERVICES, OUTLETS, ETC., UP TO 36" IN ANY DIRECTION WITHOUT ADDITIONAL CHARGES FOR SUCH RELOCATION.

C. OBTAIN FROM OWNER AND GENERAL CONTRACTOR COPIES OF "EQUIPMENT BROCHURE" AND A SET OF SHOP DRAWINGS OF EQUIPMENT, BEFORE ROUGHING IN ANY CONDUITS, OUTLET BOXES, CONNECTIONS, ETC. CHANGES RESULTING FROM FAILURE TO OBTAIN THIS INFORMATION WILL NOT RESULT IN ADDITIONAL COST.

V. INSTALLATION A. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND FIRST CLASS MANNER, LEVEL AND PLUMB, AND SECURELY SUPPORTED. B. ALL WIRING SHALL BE IN CONDUIT. THE USE OF E.N.T., BX, NM, ETC. OR PRE-MANUFACTURED CABLE ASSEMBLIES OR ALUMINUM WIRE WILL NOT BE

C. COORDINATE CONNECTION OF ELECTRICAL SYSTEMS WITH UTILITIES AS INDICATED ON THE DRAWINGS.

VI. AS-BUILT DRAWINGS A. FURNISH THE OWNER WITH 3 SETS OF AS-BUILT DRAWINGS UPON COMPLETION OF THE WORK.

VII. ELECTRICAL SUBMITTALS A. PROVIDE SIX COPIES OF SUBMITTALS ARE REQUIRED FOR THE FOLLOWING

1. LIGHT FIXTURES 2. SWITCHBRARDS

3. MOTOR CONTROL CENTERS

4. PANELBOARDS 5. SURFACE RACEWAY WIRING DEVICES

6. DISCONNECT SWITCHES

VIII. IDENTIFICATION NAMEPLATES

A. FURNISH AND INSTALL NAMEPLATES ON ALL NEW ITEMS OF ELECTRICAL EQUIPMENT. NAMEPLATES SHALL BE MADE FROM WHITE ENGRAVING STOCK WITH BLACK LETTERS AND BLACK FOUR EDGE BEVEL. WORDING SHALL SUITABLY DESCRIBE ITEMS AND NAMEPLATES SHALL BE ATTACHED USING PROPER SIZE AND TYPE STAINLESS STEEL BOLTS. GLUE ON, TAPE ON OR TAPE TYPE NAMEPLATES ARE NOT ACCEPTABLE.

IX. WARRANTIES

A. GUARANTEE ALL ELECTRICAL SYSTEM MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PROPERLY CORRECT LATENT DEFECTS ARISING WITHIN THIS

X. TEST AND ADJUSTMENT

A. FURNISH ALL LABOR. INSTRUMENTS, AND OTHER SERVICES REQUIRED FOR COMPLETE AND SATISFACTORY TEST AND ADJUSTMENT OF ELECTRICAL SYSTEMS AND RELATED WORK FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. 1. CHECK ALL MOTORS AND ROTATING EQUIPMENT FOR PROPER ROTATION

2. TEST ALL FEEDERS AND MEGGER PRIOR TO ENERGIZING TO ASSURE CODE RESISTANCE IS MET.

3. CHECK ALL FUSES AND OVERLOADS FOR PROPER SIZING. 4. CHECK ALL ELECTRICAL POWER AND CONTROL WIRING, INTERLOCKS, ETC., RELATED TO MECHANICAL INSTALLATIONS TO DETERMINE THAT ALL WIRING IS CORRECT.

5. ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR WHICH TEST PROVE TO BE DEFECTIVE OR OPERATING IMPROPERLY SHALL BE REMEDIED BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

PART 2 - PRODUCTS

I. RACEWAYS

A. EXTENT OF RACEWAY WORK IS INDICATED DIAGRAMMATICALLY ON THE DRAWINGS AND IN THE SCHEDULES.

1. WHEN SIZE IS NOT INDICATED ON PLANS, CONDUIT SHALL BE SIZED FOR CONDUCTORS IN ACCORDANCE WITH THE N.E.C. 2. THE ROUTING AND METHOD OF INSTALLATION OF ALL CONDUITS SHALL

BE COORDINATED SO AS NOT TO INTERFERE WITH OTHER EQUIPMENT INSTALLATIONS AND SHALL MEET WITH THE COMPLETE SATISFACTION OF OWNER'S REPRESENTATIVE. 3. THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT), ARMORED CABLE (AC), METAL CLAD CABLE (MC) OR MANUFACTURED CABLE

ASSEMBLIES SHALL NOT BE INCORPORATED INTO THE WORK. 4. USE ONLY THE TYPES OF RACEWAYS SPECIFIED HEREIN. B. TYPES OF RACEWAYS SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING:

1. ELECTRICAL METALLIC TUBING (EMT); MINIMUM TRADE SIZE 1/2" 2. FLEXIBLE METAL CONDUIT. MINIMUM TRADE SIZE 3/4". 3. LIQUID-TIGHT FLEXIBLE METAL CONDUIT (SEALTIGHT) MINIMUM TRADE

4. RIGID METAL CONDUIT. MINIMUM TRADE SIZE 3/4". 5. RIGID NONMETALLIC CONDUIT (PVC), SCHEDULE 40, MINIMUM TRADE

C. FITTINGS

1. FITTINGS FOR EMT SHALL BE STEEL SET SCREW OR COMPRESSION TYPE WITH FACTORY INSTALLED INSULATED THROAT CONNECTORS, DIE CAST OR POT METAL FITTINGS ARE NOT ACCEPTABLE. 2. FITTINGS FOR FLEXIBLE CONDUIT SHALL BE STEEL OR CAST IRON. 3. FITTINGS FOR RIGID CONDUIT SHALL BE STEEL THREADED TYPE. 4. FITTINGS FOR PVC SHALL BE SCHEDULE 40 GLUE-0N TYPE.

II. INSTALLATION OF RACEWAYS A. ALL CONDUITS SHALL BE INSTALLED CONCEALED. B. A SEPARATE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL BRANCH CIRCUITS AND FEEDERS. THE CONDUCTOR SHALL BE SIZED AS INDICATED IN THE N.E.C. ALL GROUNDING CONDUCTORS

SHALL HAVE A GREEN OUTER COVERING, OR GREEN MARKING TAPE

OVER THEIR ENTIRE EXPOSED LENGTHS. C. MECHANICALLY FASTEN TOGETHER METAL CONDUITS, ENCLOSURES, AND RACEWAYS FOR CONDUCTORS TO FORM A CONTINUOUS ELECTRICAL CONDUCTOR. CONNECT TO ELECTRICAL BOXES, FITTINGS AND CABINETS TO PROVIDE ELECTRICAL CONTINUITY AND FIRM MECHANICAL ASSEMBLY.

D. AVOID USE OF DISSIMILAR METALS THROUGH SYSTEM TO ELIMINATE POSSIBILITY OF ELECTROLYSIS.

E. PROVIDE NYLON PULL CORD IN ALL EMPTY CONDUITS.

F. CONDUIT INSTALLATION 1. USE RIGID METAL CONDUIT FOR ALL WEATHER EXPOSED WORK. FOR ALL STUB-UPS, FOR ALL ROOF PENETRATIONS THROUGH PATE PLUGS AND FOR FREEZER/COOLER PENETRATIONS. 2. USE E.M.T. FOR ALL INTERIOR CONCEALED AND FOR EXPOSED WORK NOT SUBJECT TO MECHANICAL INJURY.

3. USE PVC FOR ALL UNDERGROUND WORK OR WORK INSTALLED IN CONCRETE. USE RIGID METAL CONDUIT ELBOW AT STUB-UP LOCATIONS. 4. USE FLEXIBLE METAL CONDUIT FROM OUTLET BOXES TO

RECESSED LIGHTING FIXTURE AND FINAL 24" OF CONNECTION TO ITEMS SUBJECT TO MOVEMENT OR VIBRATION. 5. USE LIQUID-TIGHT FLEXIBLE CONDUIT FOR FINAL 24" CONNECTION TO ITEMS WHERE SUBJECTED TO ONE OR MORE OF THE **FOLLOWING CONDITIONS:**

a. EXTERIOR LOCATION b. MOIST OR HUMID ATMOSPHERE WHERE CONDENSATE CAN BE

EXPECTED TO ACCUMULATE. c. CORROSIVE ATMOSPHERE

d. SUBJECTED TO WATER SPRAY OR DRIPPING OIL, WATER OR

e. FINAL CONNECTION TO ROTATING OR VIBRATING EQUIPMENT. 6. CUT CONDUITS STRAIGHT, PROPERLY REAM AND CUT THREADS

FOR HEAVY WALL CONDUIT DEEP AND CLEAN. 7. FIELD BEND CONDUIT WITH BENDERS DESIGNED FOR THE PURPOSE SO AS NOT TO DISTORT NOR VARY INTERNAL DIAMETER.

III. CONDUCTORS

A. ALL WIRE SHALL BE COPPER WITH THWN INSULATION. B. THE USE OF ARMORED CABLE, BX, NM, OR ANY MANUFACTURED CABLE ASSEMBLY SHALL NOT BE INCORPORATED INTO THE WORK. C. ALL WIRING SHALL BE IN CONDUIT.

D. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:

1. 277/480V SYSTEMS a. PHASE A - BROWN

b. PHASE B - ORANGE c. PHASE C - YELLOW

d. NEUTRAL - WHITE/GREEN e. GROUND - GREEN

2. 120/240V SYSTEMS

a. PHASE A - BLACK b. PHASE B - RED c. PHASE C - BLUE d. NEUTRAL - WHITE e. GROUND - GREEN

3. 120/208V SYSTEMS a. PHASE A - BLACK b. PHASE B - RED c. PHASE C - BLUE d. NEUTRAL - WHITE e. GROUND - GREEN

IV. WIRE CONNECTIONS A. ALL BRANCH WIRING CONNECTIONS SHALL BE 3M SCOTCH LOCK CONNECTORS OR ACCEPTABLE EQUIVALENT

B. WHERE CABLE CONNECTIONS REQUIRE INSULATION, SCOTCH #33, ELECTRICAL TAPE SHALL BE USED FOR WRAPPING. V. BOXES AND FITTINGS

A. EXTENT OF ELECTRICAL BOX AND ASSOCIATED FITTING WORK IS INDICATED BY DRAWINGS AND SCHEDULES. B. OUTLET BOXES 1. CEILING: 4" SQUARE, 2-1/8" DEEP FOR EXPOSED OR FURRED

2. WALL: 4" SQUARE, 2-1/8" DEEP BOXES: PROVIDE EXTENSION

RINGS OR COVERS OF SUFFICIENT DEPTH TO BRING COVERS FLUSH WITH THE FINISHED SURFACE. 3. MASONRY: FOR FLUSH MOUNTED BOXES IN EXPOSED MASONRY OR TILE, PROVIDE COVERS WITH SQUARE CORNERS ON THE

RAISED PORTION AND WITH SUFFICIENT DEPT TO TRIM OUT FLUSH

WITH EXPOSED SURFACE.

4. EXPOSED: PROVIDE FS OR FD BOXES WITH SUITABLE WEATHERPROOF COVERS.

C. JUNCTION AND PULL BOXES

E. INSTALLATION OF BOXES AND FITTINGS

1. PROVIDE BOXES WHERE REQUIRED TO FACILITATE THE PULLING OF WIRES OR CABLES.

1. PROVIDE CORROSION-RESISTANT KNOCKOUT CLOSURES, CONDUIT LOCKNUTS AND MALLEABLE IRON CONDUIT BUSHINGS, OFFSET

CONNECTORS, OF TYPES AND SIZES TO SUIT RESPECTIVE INSTALLATION REQUIREMENTS AND APPLICATIONS.

1. POSITION RECESSED OUTLET BOXES ACCURATELY TO ALLOW FOR SURFACE FINISH THICKNESS. 2. FASTEN ELECTRICAL BOXES FIRMLY AND RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED OR SOLIDLY

F. LOCATION OF OUTLETS 1. IN GENERAL THE VARIOUS OUTLETS ARE TO BE LOCATED AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR TO THE CENTER LINE OF BOX, UNLESS NOTED OTHERWISE AT AN INDIVIDUAL **OUTLET ON THE DRAWINGS:**

EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY.

a. WALL SWITCHES (VERT. MTD.) 48" b. RECEPTACLES (VERT. MTD.) 18"

c. PHONE OUTLETS (VERT. MTD.) 48" U.N.O. d. OUTLETS ABOVE COUNTERS (HORZ. MTD.) 6" ABOVE

BACK-SPLASH 2. OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS AT OUTLETS TAKE PRECEDENCE. REFER TO DRAWINGS FOR DETAILS OF OTHER EQUIPMENT MOUNTING HEIGHTS. MOUNTING HEIGHTS

FOR FLUSH OUTLETS IN BLOCK WALLS MAY BE CHANGED FOR INSTALLATION. CONSULT OWNER'S REPRESENTATIVE IN FIELD PRIOR TO ANY SUCH INSTALLATION.

VI. CONNECTIONS FOR EQUIPMENT

A. GENERAL: FOR EACH ELECTRICAL CONNECTION INDICATED PROVIDE COMPLETE ASSEMBLY OF MATERIALS, INCLUDING BUT NOT NECESSARILY LIMITED TO PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE-NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES AND TERMINATIONS OF TYPES

INDICATED. VII. WIRING DEVICES

A. THE EXTENT OF WIRING DEVICE WORK IS INDICATED BY THE DRAWINGS

AND SCHEDULES. B. PROVIDE WIRING DEVICES WHICH ARE U.L. LISTED AND LABELED. C. ACCEPTABLE MANUFACTURERS.

1. HARVEY HUBBELL CO.

2. GENERAL ELECTRIC CO. 3. LEVITON MFG. CO.

D. FABRICATED WIRING DEVICES

1. SWITCHES SHALL BE 20 AMP, 120/277 VOLT RATED, HUBBELL

#1221 - IVORY. 2. RECEPTACLES SHALL BE 20 AMP 125 VOLT RATED HUBBELL #5362 - IVORY. FOR OTHER APPLICATIONS REFER TO THE

3. PROVIDE SMOOTH FINISH PLATES FOR ALL DEVICES WITH

APPROPRIATE MOUNTING ARRANGEMENTS FOR GAUGED DEVICES. VIII. MOTOR DISCONNECTS A. DISCONNECT SWITCHES

1. GENERAL DUTY SWITCHES: PROVIDE SURFACE MOUNTED SHEET STEEL ENCLOSED SWITCHES, OF TYPES, SIZES AND WITH ELECTRICAL CHARACTERISTICS INDICATED, INCORPORATING

QUICK-MAKE QUICK-BREAK TYPE SWITCHES. 2. SWITCH BLADE SHALL BE VISIBLE IN "OFF" POSITION WITH THE DOOR OPEN. EQUIPMENT WITH OPERATING HANDLE WHICH IS INTEGRAL PART OF ENCLOSURE BASE AND WHOSE OPERATING

POSITION IS CLEARLY INDICATED. 3. CONSTRUCT CURRENT CARRYING PARTS OF HIGH-CONDUCTIVITY COPPER AND SILVER-TUNGSTEN TYPE SWITCH CONTACTS.

PROVIDE NEMA TYPE 3R ONLY. IX. PANELBOARDS

A. DESCRIPTION OF WORK 1. TYPES OF PANELBOARDS FOR THIS PROJECT ARE AS FOLLOWS: a. 277/480V - 3 PHASE 4W - SN; SQUARE D "NF" AND

b. 120/240V - 3 PHASE 4W - SN; SQUARE D "NQOD". c. 120/208V - 3 PHASE 4W - SN; SQUARE D "NQOD".

B. ACCEPTABLE MANUFACTURERS 1. SQUARE D COMPANY 2. SIEMENS

3. CUTLER-HAMMER 4. GENERAL ELECTRIC C. PANELBOARDS: 1. PROVIDE DEAD-FRONT SAFETY CONSTRUCTED FACTORY-ASSEMBLED

CIRCUIT BREAKER TYPE PANELBOARDS IN SIZES AND RATINGS AS

2. PANELBOARD ENCLOSURE: MINIMUM DEPTH OF 5-3/4" AND MINIMUM WIDTH OF 20" FOR "NQOD" PANELS.

BUSS SHALL BE COPPER.

X. TRANSFORMER: A. TRANSFORMER SHALL BE RATED FOR 150 DEGREE CELSUS TEMPERATURE RISE. TRANSFORMER SHALL BE PROVIDED WITH RUBBER VIBRATION ISOLATION PADS. B. ACCEPTABLE MANUFACTURERS

1. SQUARE D COMPANY 2. SIEMENS

3. CUTLER-HAMMER 4. GENERAL ELECTRIC

XI. SWITCHBRARD: A. ACCEPTABLE MANUFACTURERS 1. SPARE D COMPANY

3. CUTLER-HAMMER 4. GENERAL ELECTRIC XII. MOTOR CONTROL CENTER:

A. ACCEPTABLE MANUFACTURERS 1. SQUARE D COMPANY

2. SIEMENS 3. CUTLER-HAMMER

2. SIEMENS

4. GENERAL ELECTRIC XIII. LIGHTING FIXTURES

A. HANDLE LIGHTING FIXTURES CAREFULLY TO PREVENT DAMAGE, BREAKING AND SCORING. DO NOT INSTALL DAMAGED FIXTURES OR COMPONENTS, REPLACE WITH NEW.

B. STORE LIGHTING FIXTURES IN A CLEAN DRY PLACE. PROTECT FROM WEATHER, DIRT, FUMES, WATER, CONSTRUCTION DEBRIS AND PHYSICAL DAMAGE. C. SHIP FIXTURES FACTORY ASSEMBLED, WITH PARTS REQUIRED FOR

A COMPLETE INSTALLATION. D. PROVIDE FIXTURES AND/OR FIXTURE OUTLET BOXES WITH

TO PROPERLY SUPPORT FIXTURE WEIGHT. E. INSTALL FLUSH MOUNTED FIXTURES TO ELIMINATE LIGHT LEAKAGE BETWEEN FRAME AND FINISHED SURFACE. F. AT DATE OF SUBSTANTIAL COMPLETION PROVIDE OWNER A COMPLETE SET OF LAMPS SUFFICIENT TO RE-LAMP

EACH FIXTURE.

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PROJECT No.

City

ELECTRICIAL **SPECIFICATION**

010-10145

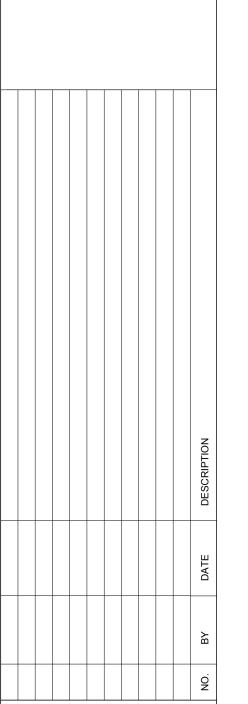
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- 1. REMOVE CONDUIT AND WIRES FROM WALLS TO NEAREST JUNCTION BOX IN CEILING.
- 2. ALL ELECTRICAL PANELS AND DISCONNECTS ARE TO REMAIN IN EXISTING LOCATIONS.
- COORDINATE ALL ELECTRICAL DEMOLITION WITH ARCHITECT AND OWNER PRIOR TO DEMOLITION.

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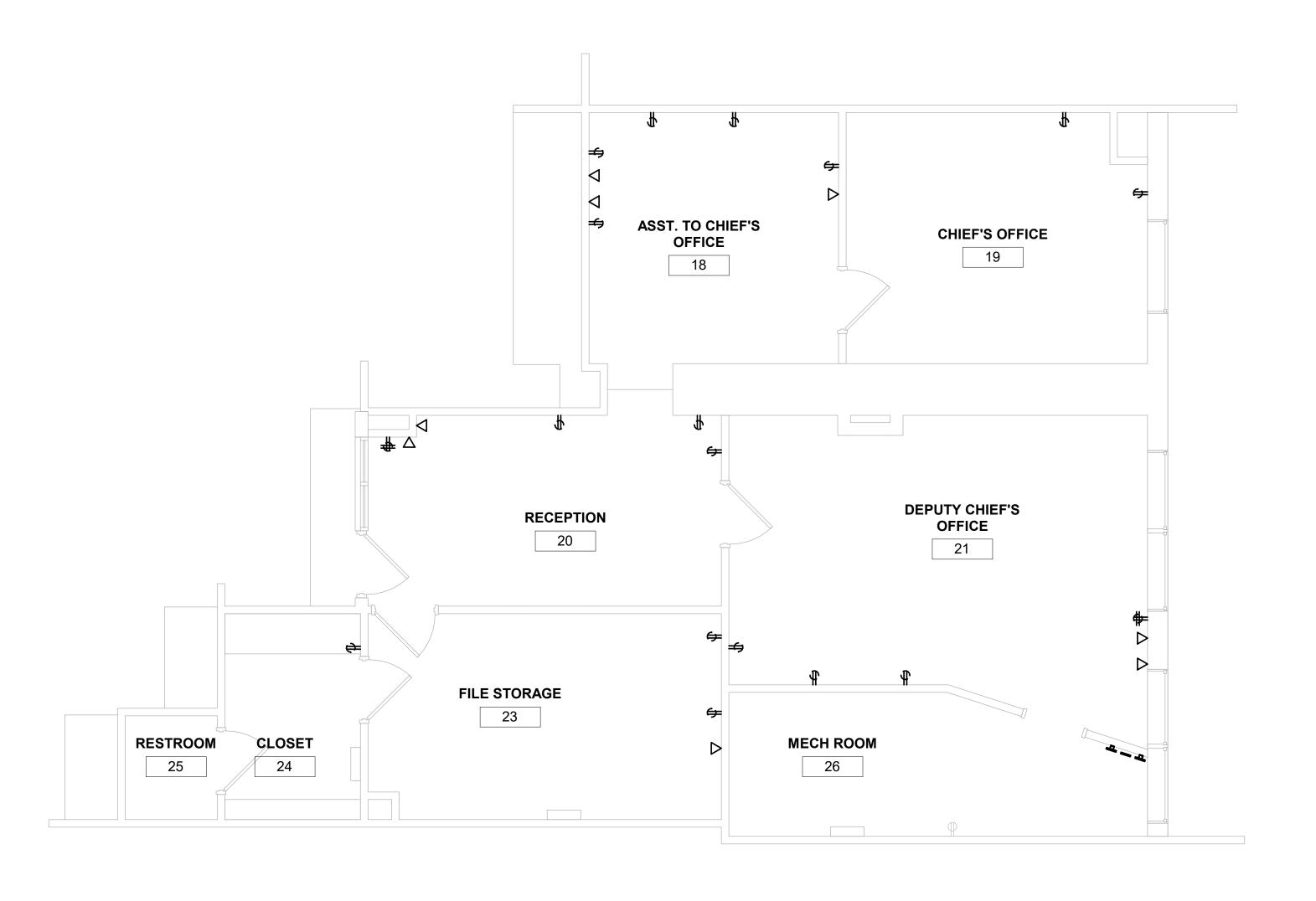
POWER DEMOLITION PLAN

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1 POWER - DEMOLITION ED2.00 1/4" = 1'-0"

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19

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PROJECT No. 010-10145

LIGHTING DEMOLITION PLAN

SHEET No.

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RECEPTION
20

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21

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23

MECH ROOM

26

1 SYSTEMS - DEMOLITION ED4.00 1/4" = 1'-0" 600 WHITE OAKS BLVD. P.O. BOX 940 BRIDGEPORT, WV 26330

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September 29, 2021

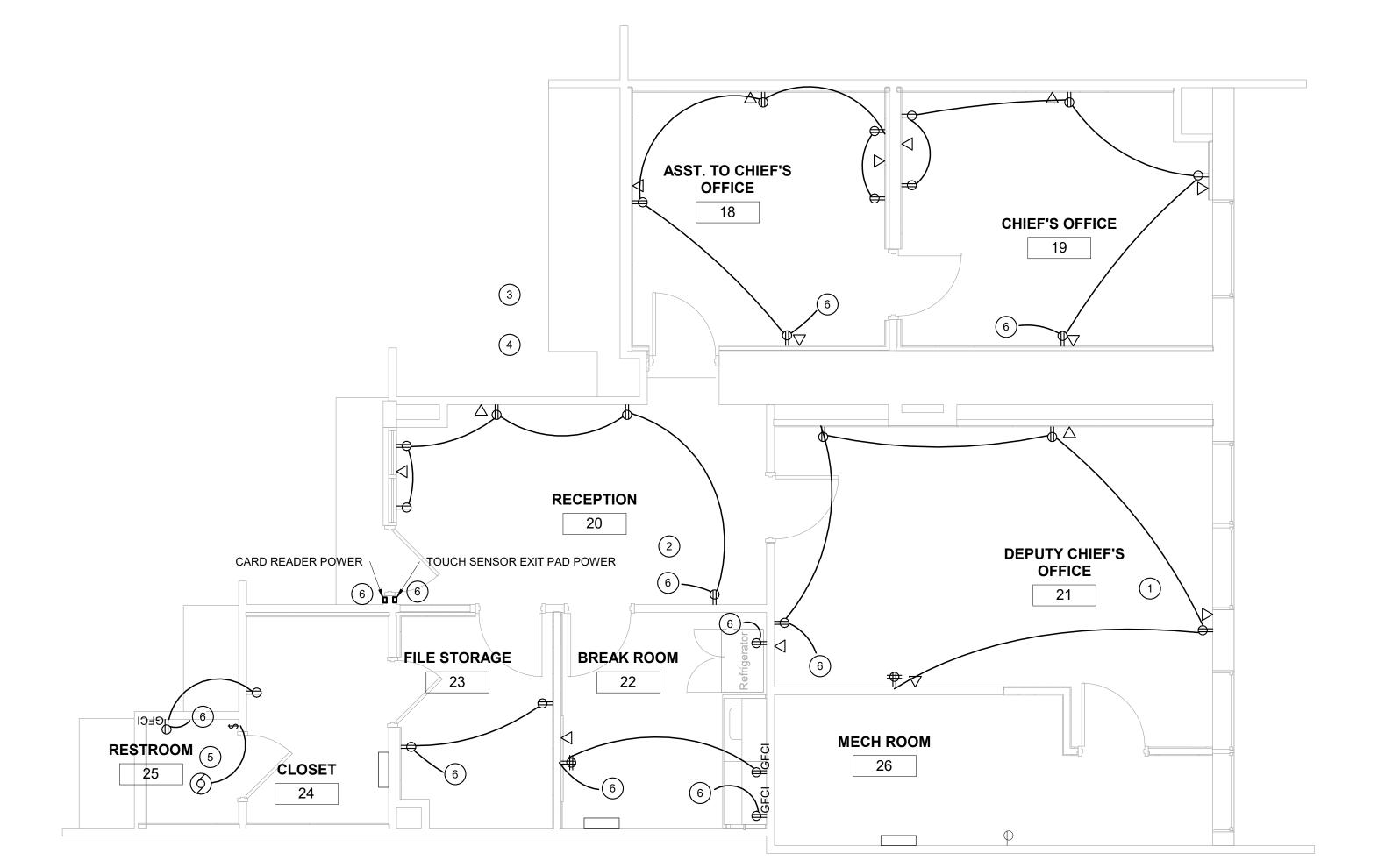
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SYSTEMS DEMOLITION PLAN

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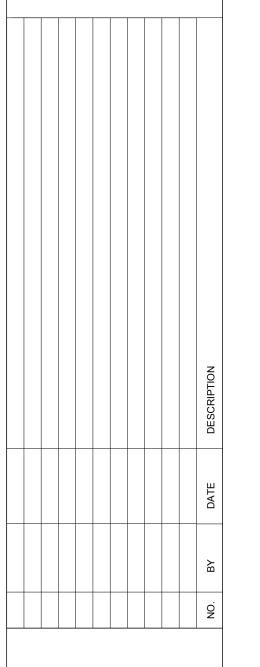
ED4.00



1 POWER - NEW E2.00 1/4" = 1'-0"

POWER KEYNOTES NOTE# DESCRIPTION AHU-1 3/4" CONDUIT WITH 2-#8 WIRES AND 1-#10 GROUND. CONNECT TO NEAREST AVAILABLE 208V PANEL USING A 2P/50A BREAKER. AHU-2 3/4# CONDUIT WITH 2-#12 WIRES AND 1-#12 GROUND. CONNECT TO NEAREST AVAILABLE 208V PANEL USING A 2P/20A BREAKER. ON ROOF HP-1 3/4" CONDUIT WITH 3-#10 WIRES AND 1-#10 GROUND. CONNECT TO NEAREST AVAILABLE 208V PANEL USING A 3P/20A BREAKER. ON ROOF HP-2 3/4" CONDUIT WITH 2-#12 WIRES AND 1-#12 GROUND. CONNECT TO NEAREST AVAILABLE 208V PANEL USING A 2P/20A BREAKER. EF-1 3/4" CONDUIT WITH 2-#12 WIRES AND 1-#12 GROUND. CONNECT TO RESTROOM LIGHT SWITCH. CONNECT TO NEAREST 120V/ 20AMP CIRCUIT BREAKER.

#10 #12 #208V #5 AND LABLE 208V #5 AND LABLE 208V



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PROJECT No. 010-10145

LIGHTING PLAN

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E3.00

ASST. TO CHIEF'S CHIEF'S OFFICE OFFICE 19 18 ED RECEPTION 20 DEPUTY CHIEF'S OFFICE 21 ED 1)_{COAX} CLOSET 24 S FILE STORAGE s 23 RESTROOM O BREAK ROOM MECH ROOM 26 22

> 1 SYSTEMS - NEW E4.00 1/4" = 1'-0"

SYSTEMS KEYNOTES

NOTE # DESCRIPTION

1 CONFIRM LOCATION WITH OWNER.

BY DATE DESCRIPTION

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DRAWN: KES DATE: 09/03/21
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SYSTEMS PLAN

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