Project No. 25-0056.00 October 23, 2025

ADDENDUM NO. 5 TO THE DRAWINGS AND PROJECT MANUAL FOR

NORTH SHORE MULTI-USE INDOOR FACILITY GALENA PARK INDEPENDENT SCHOOL DISTRICT HOUSTON, TEXAS

26558 10/23/2025

VLK

20445 State Highway 249, Suite 350 Houston, TX 77070 281.671.2300 voice vlkarchitects.com

5.1 GENERAL

- A. This addendum modifies the drawings and project manual, dated October 1, 2025, as noted within and shall become part of the Contract Documents.
- B. Each holder of proposal documents registered with the Architect will receive a copy of the addendum. Each prime proposer is responsible for distribution of information conveyed by this addendum to its sub-proposers and suppliers.
- C. Proposers shall acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject proposer to disqualification.

5.2 REVISED DRAWINGS

A. Sheet Nos. S2.22D, S6.03, M2.08D, M3.01, M3.02, M6.01, P2.05D and P6.01, dated October 23, 2025 and attached hereto, are revised drawings and are hereby made a part of this addendum.

END OF ADDENDUM NO. 5



North Shore Multi-Use Indoor Facility
Galena Park ISD
Houston, Texas

October 23, 2025

STRUCTURAL ADDENDUM NO. 5 ITEMS

1. SHEET S2.22D - ROOF FRAMING PLAN - UNIT D

- A. Roof beams updated
- B. Posts supporting roof louvers added
- C. Section cuts for roof edge detail updated

2. SHEET S6.03 - ROOF DETAILS

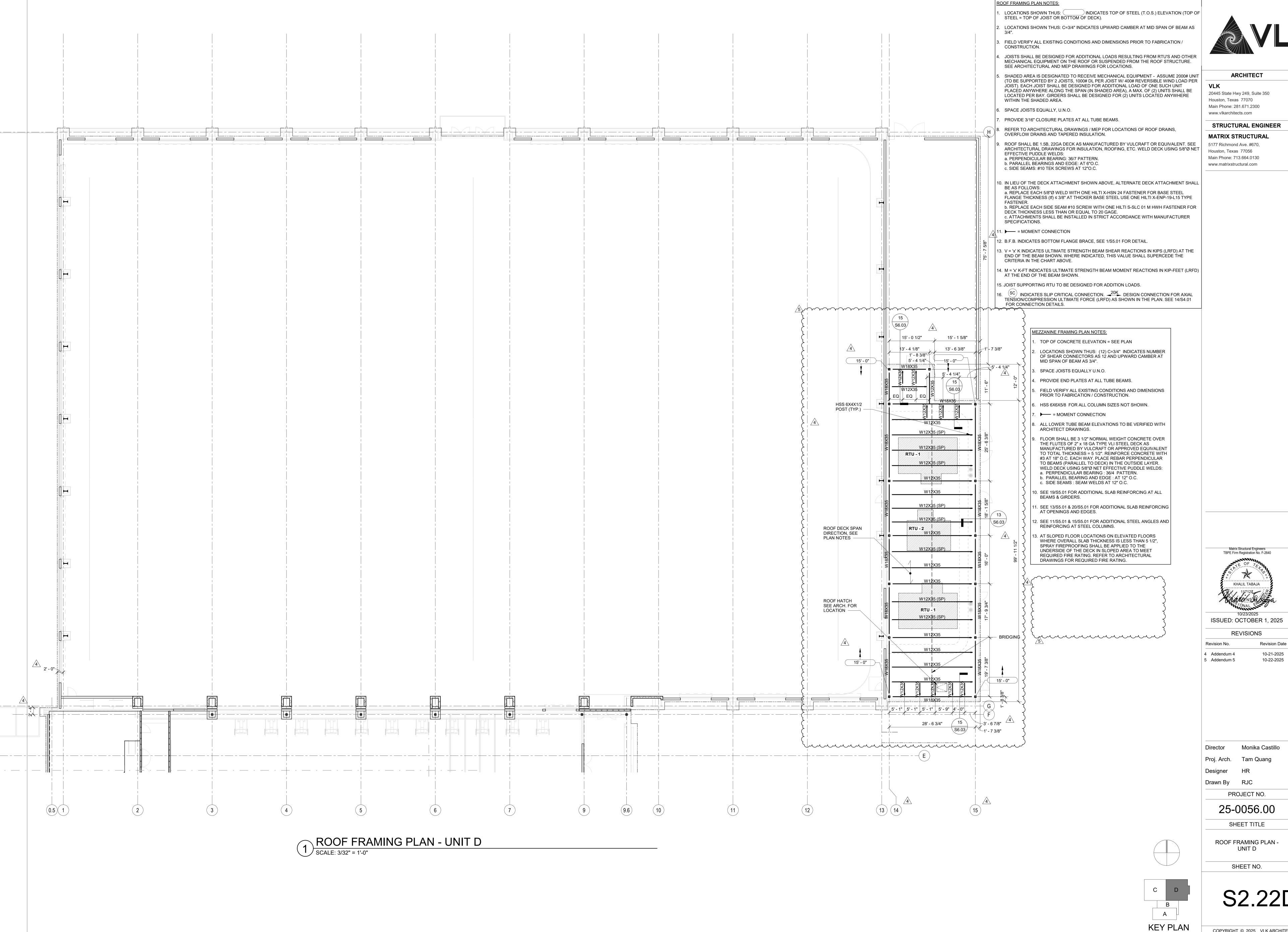
A. Detail - 11, 12, 13, 15 added

END OF MATRIX STRUCTURAL ENGINEER'S ADDENDUM ITEMS

Havish V Reddy Graduate Engineer Matrix Structural Engineers

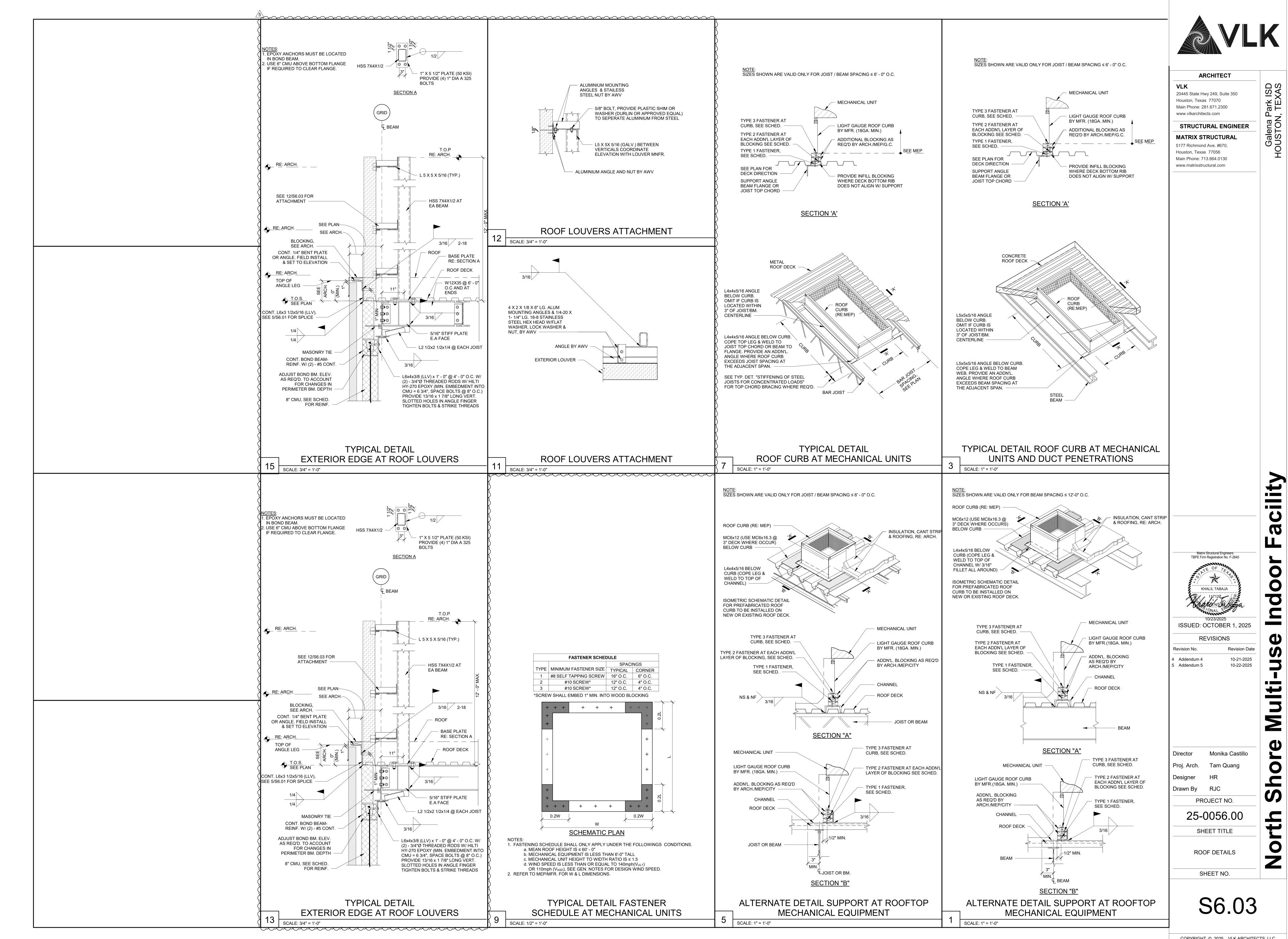
Matrix Structural Engineers TBPE Firm Registration No. F-2640

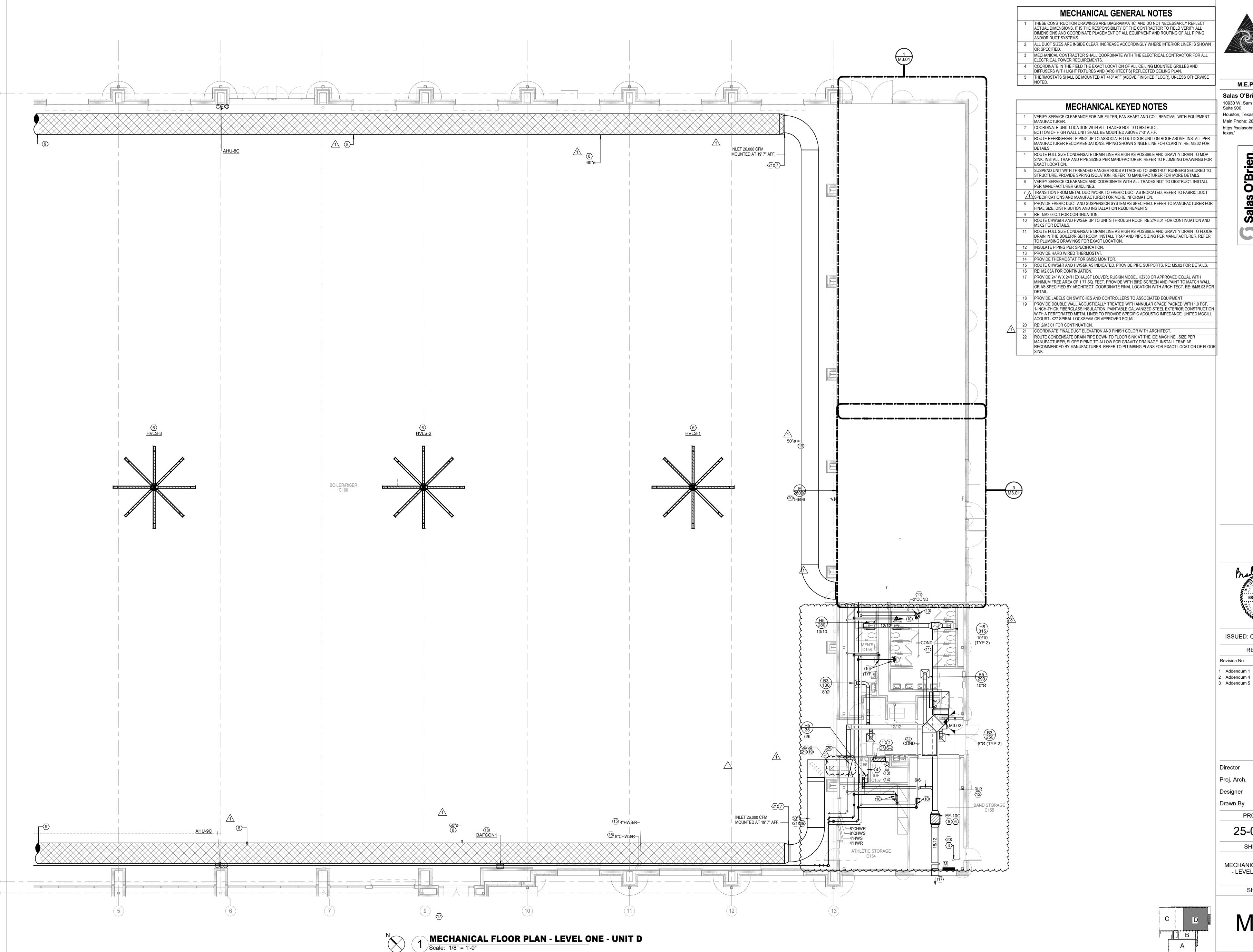




UJ

S2.22D







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https://salasobrien.com/offices/houston-

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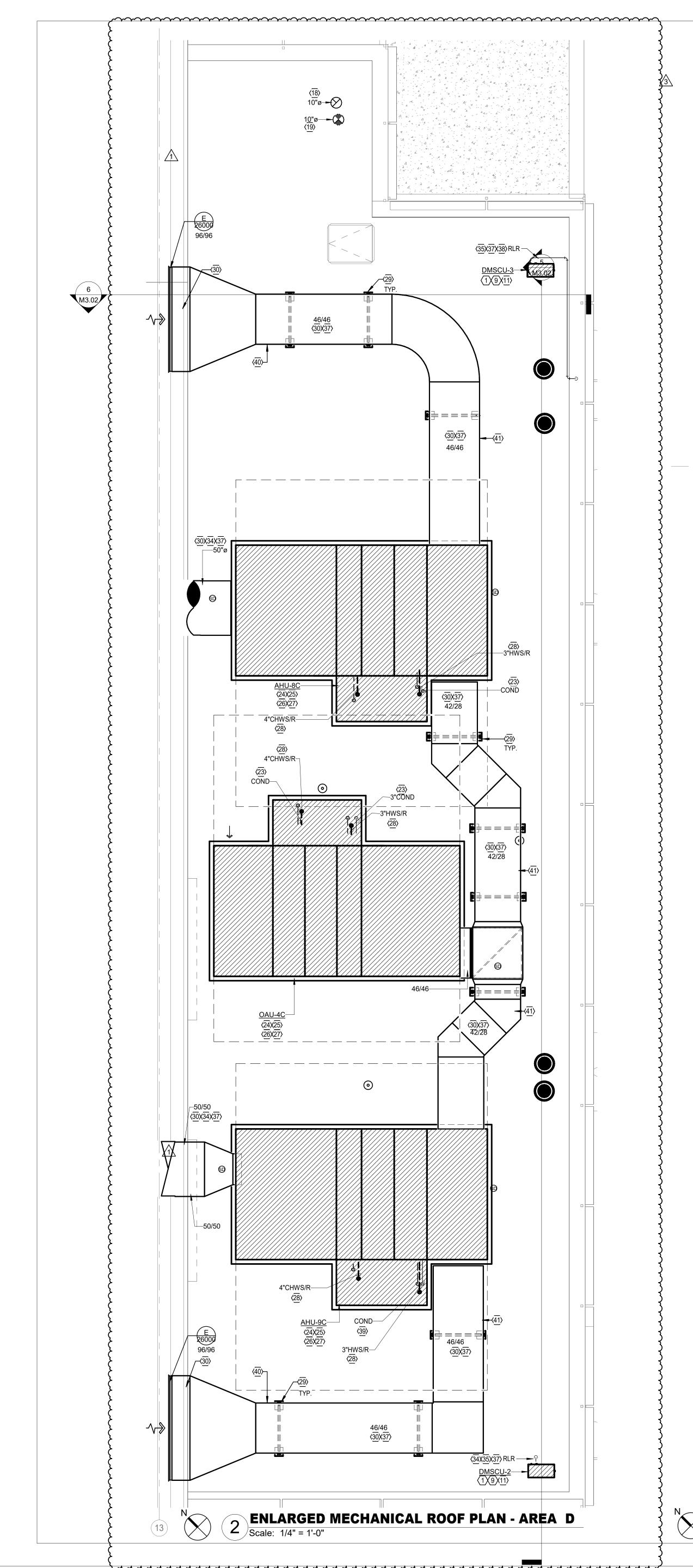
PROJECT NO. 25-0056.00

SHEET TITLE

MECHANICAL FLOOR PLAN - LEVEL ONE - UNIT D

SHEET NO.

M2.08D



MECHANICAL GENERAL NOTES

MECHANICAL PLAN - MECHANICAL YARD - LEVEL ONE
Scale: 1/4" = 1'-0"

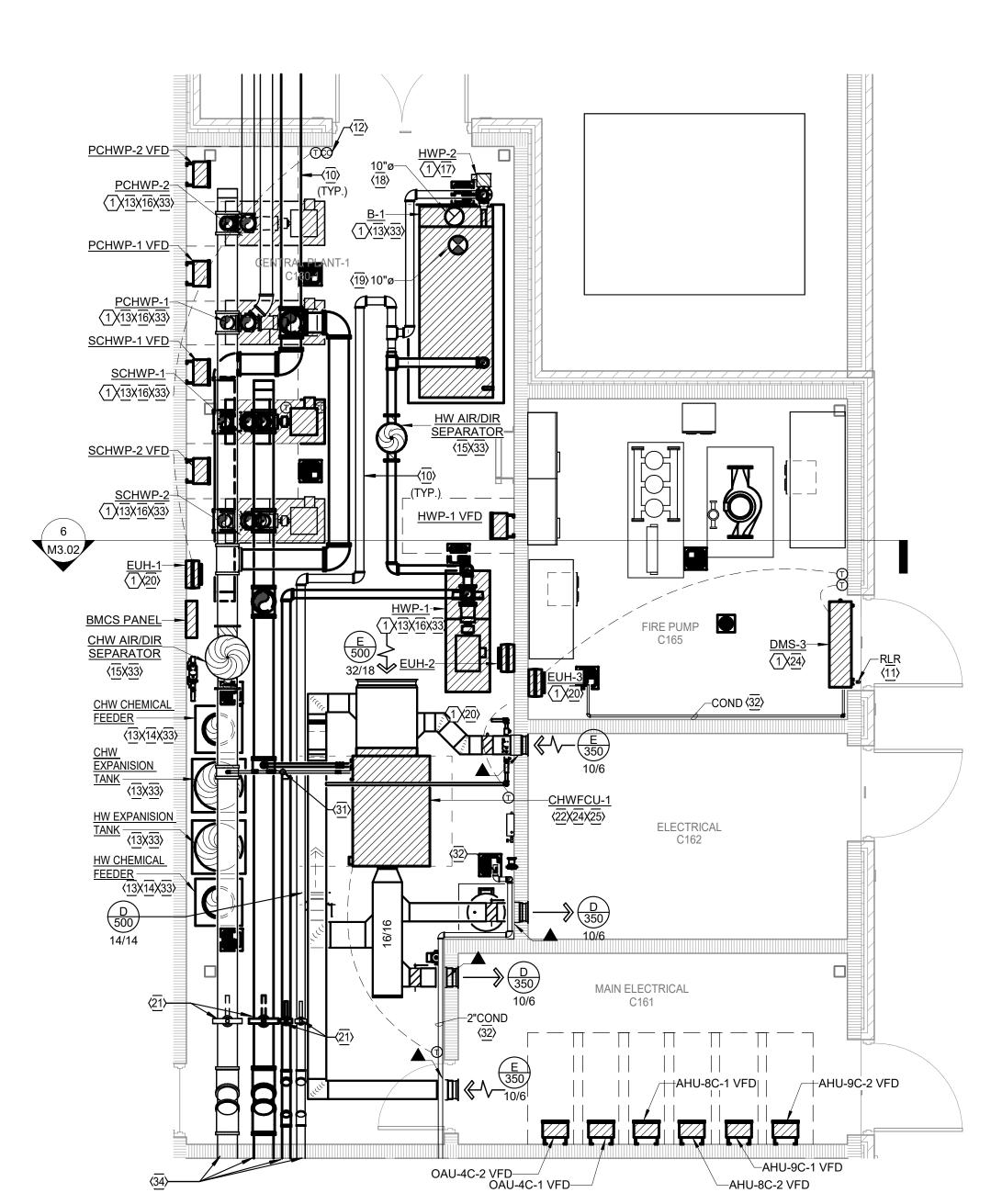
- THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
- ALL DUCT SIZES ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN
- ELECTRICAL POWER REQUIREMENTS.
- 4 COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN.
- THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE NOTED.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL
- - PROVIDE TRASH SCREEN FOR CHILLER. PROVIDE PIPE STAND AT LOCATION SHOWN. RE: 9/M-5.02 FOR DETAIL. 4 PAINT AND INSULATE OUTDOOR PIPING PER SPECIFICATIONS.

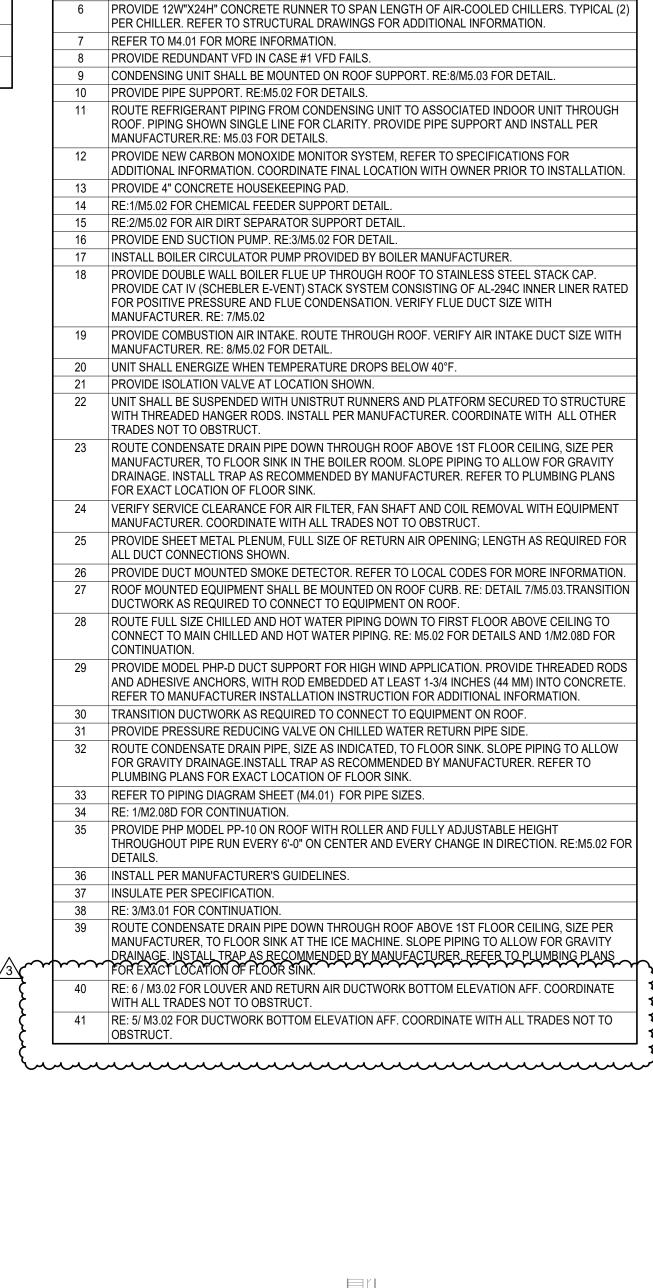
NOT TO OBSTRUCT.

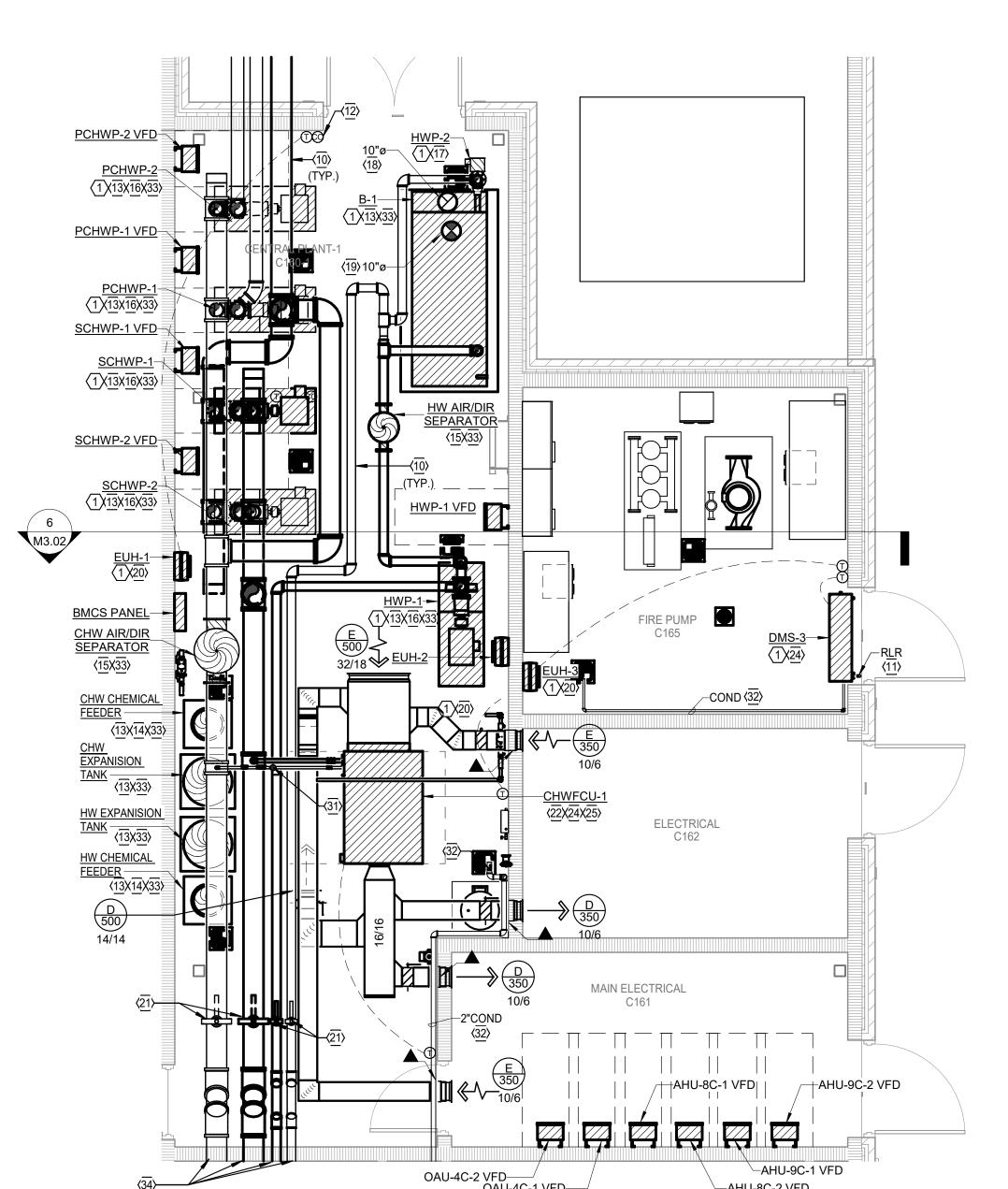
5 BOTTOM OF ALL PIPING IN THE CHILLER YARD TO BE MINIMUM 11'-6" ABOVE GRADE PER CHILLER. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

MECHANICAL KEYED NOTES

VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES









ISSUED: OCTOBER 1, 2025 **REVISIONS**

2 Addendum 4 3 Addendum 5

PROJECT NO. 25-0056.00

SHEET TITLE MECHANICAL ENLARGED

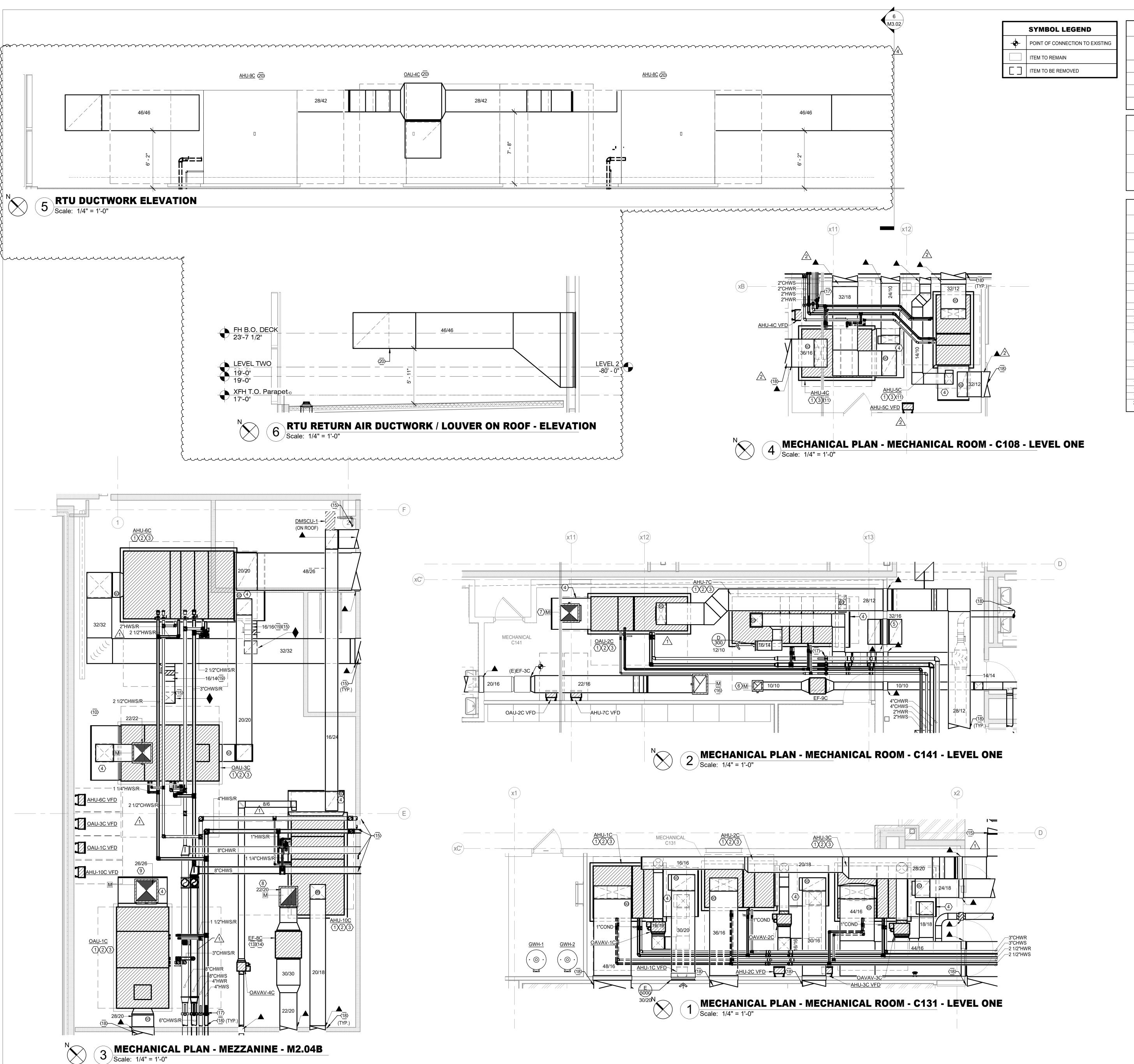
SHEET NO.

PLAN

M3.01

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3 MECHANICAL PLAN - BOILER / PUMP ROOM - LEVEL ONE Scale: 1/4" = 1'-0"



MECHANICAL GENERAL NOTES

THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING

OR SPECIFIED.

MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.

COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH LIGHT FIXTURES AND (ARCHITECT'S) REFLECTED CEILING PLAN. THERMOSTATS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR), UNLESS OTHERWISE

ALL DUCT SIZES ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN

MECHANICAL DEMOLITION GENERAL NOTES

THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING

ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS REPONSIBILE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL HVAC EQUIPMENT BEING REMOVED FROM

THIS PROJECT. THIS INCLUDES BUT NOT LIMITED TO EVAPORATIVE FLUID COOLER, PIPE STANDS,

MECHANICAL KEYED NOTES

VERIFY SERVICE CLEARANCE FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. PROVIDE REQUIRED CLEARANCES FOR PROPER MAINTENANCE AND OPERATION. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.

ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF FLOOR DRAIN. INSTALL TRAP AS RECOMMENDED BY MANUFACTURER. 4 PROVIDE SHEET METAL PLENUM, FULL SIZE OF UNIT AIR OPENINGS; LENGTH AS REQUIRED FOR ALL DUCT CONNECTIONS AS SHOWN.

INTERNALLY LINED RETURN AIR BELOW 6 ROUTE 10/10 EXHAUST AIR DUCTWORK UP TO RELIEF HOOD ABOVE ON ROOF, TRANSITION EXHAUST DUCT TO CONNECT RELIEF HOOD OPENING.

ROUTE 22/16 OUTSIDE AIR DUCTWORK DOWN FROM OUTSIDE AIR INTAKE ABOVE ON ROOF. 8 ROUTE 22/20 EXHAUST AIR DUCTWORK UP TO RELIEF HOOD ON ROOF ABOVE. TRANSITION EXHAUST DUCT TO CONNECT RELIEF HOOD OPENING. 9 ROUTE 26/26 OUTSIDE AIR DUCTWORK DOWN FROM OUTSIDE AIR INTAKE ABOVE ON ROOF.

10 ROUTE 22/22 OUTSIDE AIR DUCTWORK DOWN FROM OUTSIDE AIR INTAKE ABOVE ON ROOF. 11 AHU TO USE EXISTING HOUSEKEEPING PAD. 12 NOT USED. 13 VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES

NOT TO OBSTRUCT. 14 UNIT SHALL BE SUSPENDED WITH UNISTRUT RUNNERS AND PLATFORM SECURED TO STRUCTURE WITH THREADED HANGER RODS. INSTALL PER MANUFACTURER. COORDINATE WITH ALL OTHER TRADES NOT TO OBSTRUCT. 15 RE: 1/M2.04B FOR CONTINUATION.

16 ROUTE 22/16 EXHAUST AIR DUCTWORK UP TO RELIEF HOOD ABOVE ON ROOF. TRANSITION EXHAUST DUCT TO CONNECT RELIEF HOOD OPENING.

17 PROVIDE ISOLATION VALVE AT LOCATION SHOWN. 18 RE: 1/M2.03A FOR CONTINUATION.

19 ROUTE DUCTWORK DOWN TO FLOOR BELOW. PROVIDE WITH FIRE DAMPER. 20 ROUTE DUCT BOTTOM ELEVATION AT HEIGHT AS SHOWN AFF. COORDINATE WITH ALL TRADES NOT

TO OBSTRUCT. RE: 2 / M3.01.



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Salas

ISSUED: OCTOBER 1, 2025

2 Addendum 3 3 Addendum 4 4 Addendum 5

PROJECT NO. 25-0056.00

SHEET TITLE

UJ

MECHANICAL ENLARGED PLAN

SHEET NO.

M3.02

EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

BOILER - FORCED AIR - INDOOR

B-1 CONDENSING 2500.0 2400.0 10.0 160.0 10 208 3 60 1,2

MAINTAIN MINIMUM CLEARANCE AROUND A BOILER OF 24 INCHES PER TEXAS BOILER LAW. MAINTAIN MINIMUM

THROUGH BOILER. PUMP TO BE SHIPPED LOOSE. POWER BY ELECTRICAL CONTRACTOR BUT CONTROLLED

CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS FOR SERVICE, MAINTENANCE AND

PROVIDE WITH CIRCULATING PUMP, SIZED BY BOILER MANUFACTURER TO ENSURE CONSTANT FLOW

BY BOILER. CONTRACTOR TO WIRE FROM BOILER PUMP CONTROL CIRCUIT TO PUMP STARTER RELAY.

INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.

END SUCTION

CIRCULATOR

END SUCTION

HORIZONTAL

END SUCTION

HORIZONTAL

END SUCTION

HORIZONTAL

GAS INPUT (MBH)

<u>GENERAL NOTES</u>:

1. PROVIDE 8 OUNCE GAS PRESSURE TO BOILER.

. PROVIDE SEALED COMBUSTION BOILER.

HOT WATER

HOT WATER

CHILLED WATER

CHILLED WATER

CHILLED WATER

1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR.

PROVIDE WITH VARIABLE FREQUENCY DRIVE.

PROVIDE SUCTION DIFFUSER AT PUMP INLET.

PROVIDE WITH BACK PULL OUT.

MARK SERVICE

AIR

RETURN

AIR

ΔIR

RETURN

AIR

EXHAUST

AIR

EXHAUST

AIR

EXHAUST

AIR

SUPPLY

RETURN

SUPPLY

PROVIDE WITH GAUGE TAPPINGS.

CHILLED WATER END SUCTION

DIFFUSER

DIFFUSER

GRILLE

GRILLE

DIFFUSER

DIFFUSER

GRILLE

SLOT

SLOT

DIFFUSER / GRILLE

DIFFUSER

DIFFUSER / GRILLE

. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

HWP-1

MINIMUM HEAT OUTPUT (MBH)

PRESSURE DROP (FT.H20)

PRESSURE SIZE

ELECTRICAL

CHARAC.

V P F

MOTOR HORSE POWER

402 | 65.00 | 15 | 1800 | 480 |

2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE,

PUMP SHALL BE SELECTED BY BOILER MANUFACTURER, WITH DISCONNECT AND STARTER BY ELECTRICAL CONTRACTOR AND CONTROLLED BY BOILER.

250 | 80.00 | 15

480 | 60.00 | 15

DAMPER | CONSTRUCTION | FINISH

ALUMINUM

OAVAV-2C

OAVAV-3C

DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.

MATERIAL | COLOR |

WHITE

WHITE

BLACK

BLACK

CHARAC.

1800 480

MANUFACTURER

TITUS

TITUS

TITUS

TITUS

TITUS

TITUS

TITUS

MAXIMUM MINIMUM

CFM CFM

MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

UNLESS OTHERWISE SCHEDULED.

900

1,925

NUMBER

VARIABLE VOLUME TERMINAL BOX

INLET

DIAMETER

SIZE (IN.)

MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" ESP.

1. MAXIMUM STATIC PRESSURE DROP OF WATER THROUGH HEATER COIL SHALL BE 10' W.G.

. MAXIMUM STATIC PRESSURE DROP THROUGH HEATER COIL SHALL BE 0.25" ESP.

5. BTUH REQUIRED FOR HOT WATER HEATING IS HEATING GPM MULTIPLIED BY 10,000. 6. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT

RUNNERS SECURED TO STRUCTURE. REFER TO MANUFACTURER FOR MORE DETAILS.

8. REFER TO PIPING AT HOT WATER COIL DETAILS. PROVIDE WITH 2-WAY CONTROL VALVE

7. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID

0 14

175 0 6

2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.

GPM

MANUFACTURER

ARMSTRONG

ARMSTRONG

ARMSTRONG

ARMSTRONG

ARMSTRONG

60 | ARMSTRONG | 4030 | 1,2,3,4

REMARKS

1,2,3,4

DESCRIPTION

EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" FACE.

PERFORATED.

EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" FACE.

PERFORATED.

DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT

BARS. SURFACE MOUNTED (1)

DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT

BARS. SURFACE MOUNTED (1)

EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" OR 12"X12"

FACE. PERFORATED FACE.

DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT

BARS. SURFACE MOUNTED (1)

SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE.

PERFERATED FACE. 4' LONG FLOWBAR, JETTHROW WITH TITUS PLENUM, 1 SLOT 2" WIDTH

SURFACE MOUNT PLENUM SLOT DIFFUSER WITH 1 SLOT 2" WIDTH.

PROVIDE WITH BORDER 66 OR 11 FINISH WITH EXPOSED FLANGE. 4' LONG FLOWBAR, HIGH THROW WITH TITUSPLENUM, 1 SLOT 2" WIDTH

FLANGE.

EXISTING AIR DEVICE SHALL REMAIN. BALANCE TO INDICATED CFM.

EXISTING AIR DEVICE SHALL REMAIN. BALANCE TO INDICATED CFM.

EXISTING AIR DEVICE SHALL REMAIN. BALANCE TO INDICATED CFM.

REMARKS

FL-20-JT AND 12" INLET. PROVIDE WITH BORDER 66 OR 11 FINISH WITH EXPOSED

FL-20-HT AND 12" INLET. PROVIDE WITH BORDER 66 OR 11 FINISH WITH EXPOSED

CONNECTING

PIPE SIZE

4030

4030

4030

4030

4030

UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

I. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

PROVIDE HIGH WALL UNIT. 6. PROVIDE WITH LITTLE GIANT CONDENSATE PUMP MODEL 554652 VCMA-20ULS-C-PRO, 1/30 HP, 115V/1PH/60HZ. INTALL PUMP OUTSIDE THE UNIT.
7. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.

	MIN. TOTAL	OUTDOOR	MINIMUM	POW	ER CHA	RAC.	RELATED			
MARK	CAPACITY (BTUH)	AIR TEMP (°F)	EER/ SEER	V	PH	F	UNIT MARK	MCA	MOCP	REMARKS
DMSCU-1	36,000	98	12.0/20.3	208	1	60	DMS-1	34	56	1-7
DMSCU-2	18,000	98	11.0/19.5	208	1	60	DMS-2	16	27	1-7
DMSCU-3	24,000	98	12.0/20.3	208	1	60	DMS-3	34	56	1-7

MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

. PROVIDE LOW AMBIENT CONTROL DOWN TO 20°F.

UNIT TO BE INSTALLED PER MANUFACTURER. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

PROVIDE WITH DISCONNECT 5. PROVIDE COOLING ONLY UNIT

PROVIDE EPOXY COATED COILS. PROVIDE UNIT WITH ICM SURGE PROTECTION DEVICE. COORDINATE WITH ELECTRICAL FOR INSTALLATION.

PACK	(AGED /	AIR CO	OLEC	CHILL	ER - ST	ANI	λ	RD E	FFICIE	NCY-S	CREW
MARK	ACTUAL CAPACITY	LEAVING WATER	GPM	PRESSURE DROP (FT.)	AMBIENT AIR TEMP.		CTRI HARA				REMARKS
	(TONS)	TEMP.(°F)		Dittor (i i.)	(°F)	V	Р	F	MCA	MOCP	
ACC-1	200	42	402	20.0	98 °F	480	3	60	455	600	1-7
ACC-2	200	42	402	20.0	98 °F	480	3	60	455	600	1-7
GENERAL N	OTES:										
	A FOULING FAC										

MAINTAIN MINIMUM CLEARANCES REQUIRED BY CHILLER MANUFACTURER FOR PROPER AIRFLOW TO FANS AND UNIT. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON EQUIPMENT FOR SERVICE, MAINTENANCE AND

INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC. . CHILLER SHALL MEET OR EXCEED BOTH ABOVE SCHEDULED FULL-LOAD AND PART-LOAD EFFICIENCIES INDICATED IN IECC 2021.

COMPLY BY PATH A OR BY PATH B AS REQUIRED BY IECC 2021.

. PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL . PROVIDE WITH INTEGRAL MAIN ELECTRICAL DISCONNECT SWITCH.

. PROVIDE WITH INSULATION ON ALL SUCTION LINES. . PROVIDE CHILLER WITH A MINIMUM FULL LOAD EFFICIENCY OF 9.7 EER AND A MINIMUM IPLV OF 16.1. . PROVIDE WITH POLYMER CONDENSER FANS AND COMPRESSOR BLANKETS.

. PROVIE CHILLER RATED FOR 65KA SCCR. . PROVIDE EPOXY COATED COILS.

P/	ACKAGE	ED AIR (COO	LED CH	ILLER -	HIG	H	EFF	ICIENC	Y-SCR	EW
MARK	ACTUAL CAPACITY	LEAVING WATER	GPM	PRESSURE DROP (FT.)	AMBIENT AIR TEMP.		CTRI HARA				REMARKS
	(TONS)	TEMP.(°F)		Dittor (i i.)	(°F)	V	Р	F	MCA	MOCP	
ACC-1	200	42	402	20.0	98 °F	460	3	3	455	600	1-7
ACC-2	200	42	402	20.0	98 °F	460	3	3	455	600	1-7

. MAXIMUM FOULING FACTOR FOR THE EVAPORATOR IS 0.0001

. MAINTAIN MINIMUM CLEARANCES REQUIRED BY CHILLER MANUFACTURER FOR PROPER AIRFLOW TO FANS AND UNIT. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON EQUIPMENT FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC. . CHILLER SHALL MEET OR EXCEED BOTH ABOVE SCHEDULED FULL-LOAD AND PART-LOAD EFFICIENCIES INDICATED IN IECC 2021.

COMPLY BY PATH A OR BY PATH B AS REQUIRED BY IECC 2021. . PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL.

. PROVIDE WITH INTEGRAL MAIN ELECTRICAL DISCONNECT SWITCH. . PROVIDE WITH INSULATION ON ALL SUCTION LINES.

4. PROVIDE CHILLER WITH A MINIMUM FULL LOAD EFFICIENCY OF 10.600 EER AND A MINIMUM IPLV OF 19.2. 5. PROVIDE WITH POLYMER CONDENSER FANS AND COMPRESSOR BLANKETS.

6. PROVIE CHILLER RATED FOR 65KA SCCR. . PROVIDE EPOXY COATED COILS.

		RELIEF VE	ENT & O.A.	INTAKE		
MARK	CFM	MAX. S.P. (IN.WC.)	MIN. THROAT AREA	MODEL	SERVES	REMARKS
OAI-1C	4500	0.05 in-wg	7.5 SF	GI	OAU-1C	1,2,3,4,5
OAI-2C	2700	0.04 in-wg	5.0 SF	GI	OAU-2C	1,2,3,4,5
OAI-3C	3000	0.05 in-wg	5.0 SF	GI	OAU-3C	1,2,3,4,5
RV-1C	2000	0.05 in-wg	4.0 SF	GR	EF-8C	1,2,3,4,5
RV-2C	2510	0.08 in-wg	2.7 SF	GR	EF-1C	1,2,3,4,5
RV-3C	390	0.01 in-wg	1.0 SF	GR	(E)EF-2C	1,2,3,4,5
RV-4C	1535	0.03 in-wg	2.7 SF	GR	(E)EF-3C	1,2,3,4,5
RV-5C	340	0.01 in-wg	1.6 SF	GR	EF-9C	1,2,3,4,5
RV-6C	2400	0.01 in-wg	4.5 SF	GR	-	1,2,3,4,5

PROVIDE WITH ROOF CURB. PROVIDE WITH BIRD SCREEN. PROVIDE WITH MOTORIZED DAMPER.

4. HOOD SHALL BE RATED FOR 150MPH WIND LOADS.

5. PROVIDE EPOXY COATING. 6. PROVIDE WITH BAROMETRIC RELIEF DAMPER.

					CHIL	.LE	ED (& HOT	WATE	R FAN/C	OIL UN	IIT				
			FAN								COOLING				PIPE SIZE TO COIL (IN.)	
MARK			EXT.STATIC		CUF	RREN	Т	AIR TEMPE	RATURE (°F)	MIN. TOTAL	MIN.		WATER			REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	PRESSURE (IN. W.C.)	HORSE POWER	V	Р	F	ENTERING DRY BULB	ENTERING WET BULB	CAPACITY (BTUH)	SENSIBLE CAPACITY (BTHU)	ENTERING TEMP(°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	1.2.7%
CHWFCU-1	1,200	0	1.30	1.5	208	3	60	75.0	62.6	34,560	28,515	45	6	15.0	1"	1-7

EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH . MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNI

FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.

. PROVIDE HORIZONTAL UNIT. . PROVIDE CONSTANT VOLUME UNIT.

 PROVIDE WITH LOW VELOCITY ANGLED FILTER SECTION. PROVIDE WITH FLOAT SWITCH AUTOMATIC SHUT OFF.

SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. PROVIDE SPRING ISOLATION REFER TO MANUFACTURER FOR MORE

. PROVIDE 2-WAY COOLING CONTROL VALVES.

					EXISTIN	IG FA	N SC	HEDU	JLE					
			EXT. STATIC			ELECTI	RICAL CH	ARAC.						
TAG	LOCATION	CFM	PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	V	Р	F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURE R	REMARKS
(E)EF-2C	LOCKERS/LAUNDRY	660	0.250	1300	0.25	120	1	60	-	OAU-1C	INLINE	BELT	GREENHECK	1,2
(E)EF-3C	TOILET/SHOWERS LAUNDRY	1535	0.375	889	0.5	120	1	60	-	OAU-1C	INLINE	BELT	GREENHECK	1,2
(E)EF-4C	ELECT.	350	0.250	1870	0.25	120	1	60	-	OAU-2C	INLINE	BELT	GREENHECK	1,2
(E)EF-5C	SHOWER	100	0.250	1363	0.25	120	1	60	-	OAU-2C	INLINE	BELT	GREENHECK	1,2
(E)EF-6C	TOILET	770	0.375	1142	0.33	120	1	60	-	OAU-2C	INLINE	BELT	GREENHECK	1,2
(E)EF-7C	LOCKERS/ JAN	580	0.375	1149	0.25	120	1	60	-	OAU-1C	INLINE	BELT	GREENHECK	1,2

INTERLOCKS ARE SHOWN FOR ASSOCIATION PURPOSES ONLY SOFTWARE INTERLOCKS ARE ACCEPPTABLE..

EXISTING UNITS SHALL BE MODIFIED TO SCHEDULED PERFORMANCE AS NOTED ABOVE.

REFER TO MANUFACTURER MANUAL FOR ADDITIONAL INSTALLATION REQUIREMENTS.

EXISTING EXHAUST FANS EQUIPPED WITH MOTORIZED DAMPER SHALL HAVE THE MOTORIZED DAMPER REPLACED.

			O 11.		_,	,		ECTRIC		
MARK	MINIMUM CAPACITY	KW	NUMBER OF	l	ECTRICA CHAR.	٩L	CFM	MANUFACTURER	SERIES	REMARKS
	(BTUH)		STAGES	V	Р	F				
EUH-1	11,200	3	1	208	3	60	400	MERKEL	UHE	1,2
EUH-2	11,200	3	1	208	3	60	400	MERKEL	UHE	1,2
EUH-3	11,200	3	1	208	3	60	400	MERKEL	UHE	1,2

	DOWER	ALD TELABEDATURE (OF)		14/4 TED
FAN		COC	LING	

			FAN								COO	LING					Н	EATING			PIPE S TO COIL		
MARK	SUPPLY	OUTSIDE	EXT. STATIC	HORSE		POWE	R		AIR TEMPER	RATURE (°F)		COOLING		WATER		ENTERING AIR	MIN.		WATER		CHILLED	НОТ	REMARKS
	AIR CFM	AIR CFM	PRESSURE (IN. W.C)	POWER	V	PH	F	ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	CAPACITY (BTUH)	ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	TEMPERATURE (°F)	HEATING CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	WATER	WATER	
AHU-1C	5,000	1,500	2.00	8.0	480	3	60	75.0	62.6	53.0	52.5	145,400	45	24.2	15.0	65.0	135,000	130.0	13.6	10.0	2"	1 1/2"	1,3,4,5,7,8,10,11,12
AHU-2C	3,000	900	2.00	8.0	480	3	60	75.0	62.6	53.0	52.5	87,300	45	14.5	15.0	65.0	81,000	130.0	8.2	10.0	1 1/2"	1 1/4"	1,3,4,5,7,8,10,11,12
AHU-3C	5,505	1,925	2.00	8.0	480	3	60	75.0	62.6	53.0	52.5	160,100	45	26.7	15.0	65.0	148,635	130.0	15.0	10.0	2"	1 1/2"	1,3,4,5,7,8,10,11,12
AHU-4C	4,500	1,350	2.00	8.0	480	3	60	75.0	62.6	53.0	52.5	130,900	45	21.8	15.0	65.0	121,500	130.0	12.3	10.0	2"	1 1/4"	1,3,4,5,7,8,10,11,12
AHU-5C	2,610	750	2.00	4.0	480	3	60	75.0	62.6	53.0	52.5	75,900	45	12.6	15.0	65.0	70,470	130.0	7.1	10.0	1 1/4"	1 1/4"	1,3,4,5,7,8,10,11,12
OAU-1C	4,500	4,500	2.00	8.0	480	3	60	98.0	80.0	53.0	52.5	441,200	45	73.4	15.0	27.0	136,080	130.0	13.7	10.0	3"	1 1/2"	2,3,5,6,7,8,9
OALL-2C	2 700	2 700	2.00	<i>4</i> N	480	3	60	98.0	80 N	53.0	52.5	264 000	45	/13 Q	15.0	27.0	81 648	130.0	8.2	10.0	2 1/2"	1 1/4"	35678910

AIR HANDLING UNIT - FIELD HOUSE

GENERAL NOTES:

1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE 2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS

REMARKS:

1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL. 2. PROVIDE HORIZONTAL UNIT.

PROVIDE CONSTANT VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE.

 PROVIDE TOP DISCHARGE. PROVIDE TWO-WAY COOLING CONTROL VALVES.

PROVIDE THREE-WAY HEATING CONTROL VALVES.

7. PROVIDE HOT WATER COIL IN REHEAT POSITION. B. PROVIDE UNIT WITH FLAT FILTER SECTION.

9. VELOCITY NOT TO EXCEED 450 FPM ON COOLING COIL 10. PROVIDE VERTICAL UNIT PROVIDE TWO-WAY HEATING CONTROL VALVES.

12. PROVIDE SINGLE-ZONE VAV CONTROLS, COMPLETE WITH SUPPLY FAN VFD, DISCHARGE AIR TEMPERATURE SENSOR AND PROGRAMMABLE ZONE TEMPERATURE AND RELATIVE HUMDITY SENSOR.

									ROOF	MOUN	ΓED WE	ATHERP	ROOF A	NR H	ANDLIN	G UNIT							
			FAN								COOL	ING					HE	EATING			PIPE S TO COIL		
MARK	SUPPLY	OUTSIDE	EXT. STATIC PRESSURE	HORSE		ECTRIC			AIR TEMPER	ATURE (°F)		COOLING		WATER		ENTERING AIR TEMPERATURE	MIN. HEATING		WATER		CHILLED	НОТ	REMARKS
	AIR CFM	AIR CFM	(IN. W.C)	POWER	V	PH	F	ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	CAPACITY (BTUH)	ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	(°F)	CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	WATER	WATER	· · · · · · · · · · · · · · · · · · ·
AHU-8C	26,000	12,000	3.00	40	480	3	60	75.0	62.6	53.0	52.5	752,100	45	125.2	15.0	65.0	702,000	130.0	70.9	10.0	4"	3" }	1,2,3,4,5,6,7,9,10,12,13,15, 16
AHU-9C	26,920	12,000	3.00 1	40	480	3	60	75.0	62.6	53.0	52.5	∑ 783,100	45 /1	130.4	15.0	65.0	726,840	130.0/1	73.4	10.0	4"	3"}	1,2,3,4,5,7,9,10,11,12,13,15 ,16
OAU-4C	24 000	24 000	2.00	33	480	3	60	98.0	80.0	53.0	52.5	2 353 100	45	391 7	15.0	27.0	725 760	130.0	73.3	10.0	6"	3" }	23456891013141516

GENERAL NOTES:

1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED

REMARKS:

1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL. PROVIDE HORIZONTAL UNIT.

3. PROVIDE CONSTANT VOLUME UNIT WITH A VARIABLE FREQUENCY DRIVE AND ONE A REDUNDANT VFD . THIS UNIT HAS TWO VARIABLE FREQUENCY DRIVES I. PROVIDE FRONT DISCHARGE.

5. PROVIDE TWO-WAY COOLING CONTROL VALVES. 6. PROVIDE THREE-WAY HEATING CONTROL VALVES.

7. PROVIDE HOT WATER COIL IN REHEAT POSITION. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.

PROVIDE UNIT WITH FLAT FILTER SECTION. 0. PROVIDE UV LIGHT PER SPECIFICATIONS. UV LIGHT SHALL HAVE SEPARATE ELECTRICAL CONNECTION FROM AIR HANDLING UNIT. REFER TO ELECTRICAL DRAWINGS.

1. PROVIDE TWO-WAY HEATING CONTROL VALVES. 2. PROVIDE SINGLE-ZONE VAV CONTROLS, COMPLETE WITH SUPPLY FAN VFD, DISCHARGE AIR TEMPERATURE SENSOR AND PROGRAMMABLE ZONE TEMPERATURE AND RELATIVE HUMDITY SENSOR 13. PROVIDE ROOF CURB WITH SOLID BOTTOM TO MEET WITH 150 MPH WINDS, ACOUSTICAL TYPE, WITH A MINIMUM OF 2" FIBERGLASS INSULATION.

. 14. VELOCITY NOT TO EXCEED 450 FPM ON COOLING COIL.

15. PROVIDE WITH FACTORY MIXING BOX SECTION.

16. PROVIDE WITH RETURN AIR AND OUTSIDE AIR INLET ON SIDES OF MIXING BOX AND ACCESS PANEL ON REAR OF MIXING BOX SECTION.

									100%	OUTS	DE AIR	HANDLIN	IG UNIT	- WE	EIGHT R	MOO							
	FAN										COO	LING					Н	EATING			PIPE S TO COIL		
MARK	SUPPLY	OUTSIDE	EXT. STATIC PRESSURE	HORSE		ECTRIC HARAC			AIR TEMPER	ATURE (°F)				WATER		ENTERING AIR TEMPERATURE	. HEATING		WATER		CHILLED	НОТ	REMARKS
	AIR CFM	AIR CFM	(IN. W.C)	POWER	V	PH	F	ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	COOLING CAPACITY	ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	(°F)	CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	WATER	WATER	
OAU-3C	3,000	3,000	2.00	5.0	480	3	60	98.0	80.0	53.0	52.5	294,100	45	49.0	15.0	27.0	90,720	130.0	9.2	10.0	2 1/2"	1 1/4"	1,2,3,5,6,7,8,9,10

EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.

2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

VELOCITY NOT TO EXCEED 450 FPM ON COOLING COIL. PROVIDE HORIZONTAL UNIT.

3. PROVIDE CONSTANT VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE. . PROVIDE FRONT DISCHARGE.

PROVIDE TWO-WAY COOLING CONTROL VALVES. 6. PROVIDE THREE-WAY HEATING CONTROL VALVES.

7. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION. 8. PROVIDE UNIT WITH FLAT FILTER SECTION.

9. PROVIDE UV LIGHT PER SPECIFICATIONS. UV LIGHT SHALL HAVE SEPARATE ELECTRICAL CONNECTION FROM AIR HANDLING UNIT, REFER TO ELECTRICAL DRAWINGS. 10. PROVIDE TOP DISCHARGE.

										AIR	HANDL	ING UNIT	- WEIG	HT R	OOM								
			FAN								C00	LING					HE	EATING			PIPE S TO COIL		
MARK	SUPPLY	OUTSIDE	EXT. STATIC PRESSURE	HORSE	ELE(CTRIC ARAC			AIR TEMPER	RATURE (°F)		COOLING		WATER		ENTERING AIR TEMPERATURE	HEATING		WATER		CHILLED	НОТ	REMARKS
	AIR CFM	AIR CFM	(IN. W.C)	POWER	V	PH	F	ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	CAPACITY (BTUH)	ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	(°F)	CAPACITY	ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	WATER	WATER	
AHU-6C	10,000	3,000	2.00	15	480	3	60	75.0	62.6	53.0	52.5	289,300	45	48.2	15.0	67.0	248,400	130.0	25.1	10.0	2 1/2"	2"	1,2,3,5,6,7,8,9,10,11
AHU-7C	1,590	600	1.25	5	480	3	60	75.0	62.6	53.0	52.5	46,300	45	7.7	15.0	69.2	35,718	130.0	3.6	10.0	1 1/4"	1"	1,2,3,4,5,6,7,8,10,11
AHU-10C	2,275	175	2.00	5	480	3	60	75.0	62.6	53.0	52.5	66,200	45	11.0	15.0	69.5	50,368	130.0	5.1	10.0	1 1/4"	1"	1,2,3,4,5,6,7,8,10,11

HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.

MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE

VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.

PROVIDE HORIZONTAL UNIT. PROVIDE CONSTANT VOLUME UNIT WITH VARIABLE FREQUENCY DRIVE

PROVIDE TOP DISCHARGE. PROVIDE TWO-WAY COOLING CONTROL VALVES.

PROVIDE TWO-WAY HEATING CONTROL VALVES. PROVIDE HOT WATER COIL IN REHEAT POSITION.

PROVIDE UNIT WITH FLAT FILTER SECTION. PROVIDE FRONT DISCHARGE.

I. PROVIDE UV LIGHT PER SPECIFICATIONS. UV LIGHT SHALL HAVE SEPARATE ELECTRICAL CONNECTION FROM AIR HANDLING UNIT. REFER TO ELECTRICAL DRAWINGS. 1. PROVIDE SINGLE-ZONE VAV CONTROLS, COMPLETE WITH SUPPLY FAN VFD, DISCHARGE AIR TEMPERATURE SENSOR AND PROGRAMMABLE ZONE TEMPERATURE AND RELATIVE HUMDITY SENSOR.

FAN SCHEDULE															
TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	ELECTI V	RICAL CH	IARAC. F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURE R	MODEL NUMBER	REMARKS
HVLS-1	PRACTICE AREA	0	0.00	70	2	480	3	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	PF20	1,2,3,4,7,12
HVLS-2	PRACTICE AREA	0	0.00	70	2	480	3	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	PF20	1,2,3,4,7,12
HVLS-3	PRACTICE AREA	0	0.00	70	2	480	3	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	PF20	1,2,3,4,7,12
HVLS-4	PRACTICE AREA	0	0.00	70	2	480	3	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	PF20	1,2,3,4,7,12
HVLS-4	PRACTICE AREA	0	0.00	70	2	480	3	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	PF20	1,2,3,4,7,12
HVLS-5	PRACTICE AREA	0	0.00	70	2	480	3	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	PF20	1,2,3,4,7,12
HVLS-6	PRACTICE AREA	0	0.00	70	2	480	3	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	PF20	1,2,3,4,7,12
HVLS-7	WEIGHT RM C148	0	0.00	56	0.5	208	1	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	ESSENCE	1,2,3,4,7,12
HVLS-8	WEIGHT RM C148	0	0.00	56	0.5	208	1	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	ESSENCE	1,2,3,4,7,12
HVLS-9	WEIGHT RM C148	0	0.00	56	0.5	208	1	60	-	BAFCON	CEILING MOUNTED	DIRECT	Big Ass Fans	ESSENCE	1,2,3,4,7,12
EF-1C	LAUNDRY C137	2510	0.50	1176	1	480	3	60		OAU-1C	INLINE	DIRECT	СООК	SQN	1,6,7,8,9,10
EF-8C	MEZZANINE M2.04B	2000	0.75	818	3	480	3	60	-	OAU-1C OAU-3C	INLINE	DIRECT	COOK	SQN	1,6,7,8,9,10
EF-9C	MECHANICAL C141	340	0.75	1797	0.33	120	1	60	-	OAU-2C	INLINE	DIRECT	COOK	SQN	1,6,7,8,9,10
EF-10C	STORAGE C160	945	1.50	1452	0.33	120	1	60	_	OAU-4C	INLINE	DIRECT	COOK	SQN	1,6,7,8,9,10

. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN. . MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES, MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE. MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT SWITCH.

2. VERIFY EXTENSION TUBE AND MOUNTING METHODS PRIOR TO INSTALLATION. 3. PROVIDE WITH WALL MOUNTED CONTROLLER.

4. FANS TO BE INSTALLED TO MEET ALL HVLS MANUFACTURERS CLEARANCE REQUIREMENTS. 5. PROVIDE WITH ROOF CURB AND BIRD SCREEN. 6. PROVIDE WITH MOTORIZED DAMPER.

7. INSTALL PER MANUFACTURERS REQUIREMENTS. . PROVIDE WITH LOW LEAKAGE MOTORIZED DAMPER THAT SHALL CLOSE WHEN UNIT IS NOT OPERATING. PROVIDED BY BMCS INSTALLED IN DUCTWORK BY MECHANICAL CONTRACTOR. . SUSPEND UNIT WITH FOUR THREADED HANDLER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURES TO STRUCTURE. PROVIDE WITH SPRING ISOLATION.

10. PROVIDE WITH EC MOTOR AND FAN SPEED CONTROLLER. 11. FAN SHALL ENERGIZE WHEN TEMPERATURE RISES ABOVE 85 DEG. °F. 12. HVLS FANS TO BE TIED INTO FIRE ALARM.

Salas O'Brien

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BRADLEY KALMANS

ISSUED: OCTOBER 1, 2025 **REVISIONS**

Revision No. Revision Date 10/08/2025 Addendum ^{*} Addendum 4 10/22/2025 10/23/2025 Addendum 5

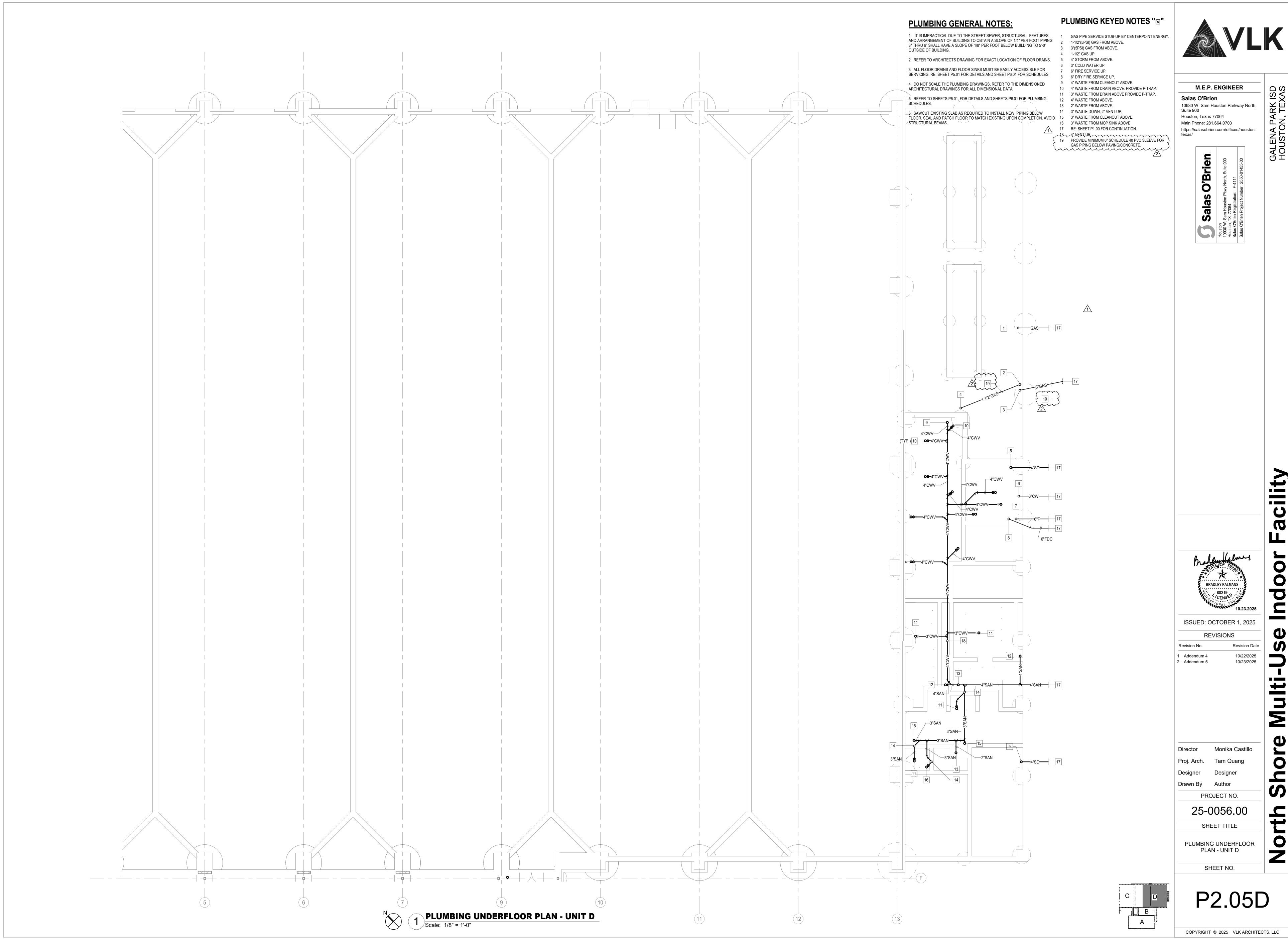
Monika Castillo

PROJECT NO.

25-0056.00 SHEET TITLE

MECHANICAL SCHEDULES

SHEET NO.





	BASIS OF DESIGN		STORAGE WH GALS. PER			El	AR.				
MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	BTU/HR. INPUT	HR. RECOVERY RATE 100°F RISE	STORED WATER TEMP	V	Р	MCA	МОСР	REMARKS
GWH-1	AO SMITH	BTH-199A	100 GAL	199	256	140 °F	120	1	0	20	
GWH-2	AO SMITH	BTH-199A	100 GAL	199	256	140 °F	120	1	0	20	

NOTE: PROVIDE HOT WATER EXPANSION TANK DOWNSTREAM OF CHECK VALVE ON COLD WATER SUPPLY. WATTS DETA-20

ELECTRIC WATER HEATER SCHEDULE											
	BASIS OF	BASIS OF DESIGN			WH GALS. PER HR.			ELEC			
MARK	MANUFACTURER	MODEL	STORAGE CAPACITY	KW	RECOVERY RATE 100°F RISE	STORED WATER TEMP	V	Р	MCA	MOCP	REMARKS
792	AO SMITH	DSE-30A	30 GAL	12.3	50	140	480	3 ^	0	20	
NOTE: PROVIDE	OTE: PROVIDE HOT WATER EXPANSION TANK DOWNSTREAM OF CHECK VALVE ON COLD WATER SUPPLY. WATTS DETA-5										

	CIRCULATION PUMP SCHEDULE										
	BASIS OF DESIGN							ELECT	RICAL	CHAR.	
MARK	MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HP MIN	V	Р	F	MAX RPM
CP-1	GRUNDFOS	MAGNA3 32-120 GF	CIRCULATION PUMP	INLINE BRONZE	4	30'	1/25	120	1	60	1750
CP-2	GRUNDFOS	ALPHA HWR 15-55SF	CIRCULATION PUMP	INLINE BRONZE	5	6'	1/25	120	1	60	1750

NOTE: FACTORY SET PUMP TO AUTO-ADAPT SETTING

SHOCK ARRESTORS							
P.D.I SYMBOL	FIXTURE UNITS	CHAMBER LENGTH	THREADED CONNECTION				
Α	1-11	9 5/8"	1/2"				
В	12-32	11 3/4"	3/4"				
С	33-60	14 11/16"	1"				
D	61-113	12 3/8"	1"				
Е	114-154	15 3/8"	1"				
F	155-330	17 3/8"	1"				
'			2				

			Р	UMP:	S			
ITEM	DESCRIPTION	TYPE	GPM	HEAD FEET	H.P MIN.		MAX RPM	MANUFACTURER AND MODEL
FP-1	FIRE PUMP	VERTICAL IN-LINE	500	148'	25	460/3/60	3525	PATTERSON 5X3 VIP
JP-1	JOCKEY PUMP	VERTICAL IN-LINE MULTISTAGE	5	185'	3/4	460/3/60	3500	EBARA MODEL-EV1-7F0075T3S

1. PROVIDE (FC-1) FIRE PUMP CONTROLLER - FIRETROL MODEL-FTT1000-AM25B, SOFT START WITH TRANSFER SWITCH 2. PROVIDE (JC-1) JOCKEY PUMP CONTROLLER - FIRETROL MODEL-FTA570F-AG034B

DOMESTIC BOOSTER PUMP								
ITEM NO.	DESCRIPTION	TYPE	GPM (EA.)	HEAD FEET (TOTAL)	H.P MIN. (EA.)	ELECTRICAL REQUIRED V/PZ/HZ	MAX RPM	MANUFACTURER AND MODEL
TBP-1	TRIPLEX BOOSTER PUMP	VERTICAL MULTI-STAGE	45	130	3	460/3/60	3500	GRUNDFOS HYDRO MPC-E 3CRE 10-4
PUM	IP NOTES:							
1. 2.	WITHIN A SINC	GRAL VFD ON	EACH P AL ENCL	UMP OR IF OSURE (M	EXTERN IN. NEM	NAL DRIVES TH A 3R UNLESS N		LL BE CONTAINED THERWISE), PANEL

OF A PRIMARY SENSOR FAILURE 4. PROVIDE SURGE PROTECTION, BATTERY BACKUP, SERVICE DISCONNECTS, INDIVIDUAL PUMP RUN INDICATION, AUDIBLE & VISUAL ALARM, BACNET COMMUNICATION INTERFACE. HEADERS SHALL BE CONSTRUCTED OF 316 SS WITH FLANGED CONNECTIONS ON ALL ENDS, PROVIDE SUCTION & DISCHARGE ISOLATION VALVES AND DISCHARGE CHECK VALVES ON EACH CONTRACTOR TO ROUTE A PIPE OFF THE SYSTEM DISCHARGE LINE TO THE BLADDER TANK PROVIDING A BLOCK & BLEED PIPING ARRANGEMENT THAT ALLOWS THE TANK TO BE ISOLATED

PROVIDE REDUNDANT DISCHARGE PRESSURE TRANSDUCER AND CONTROL CAPABILITY TO

MONITOR BOTH SENSOR AND AUTOMATICALLY SWITCH TO SECONDARY SENSOR IN THE EVENT

FROM THE SYSTEM AND DRAINED. WHEN REQUIRED, SYSTEM SUPPLIER TO PROVIDE 150# FLANGED X 150# FLANGED REDUCING FLEX CONNECTORS, OF ALL STAINLESS STEEL CONSTRUCTION (RE: PLANS FOR PIPE CONNECTION SIZES). FOR PACKAGES BEING FED FROM A BREAK TANK, PACKAGE TO BE WIRED INTO THE LEVEL

BY SUCTION PRESSURE SENSOR IS NOT ACCEPTABLE).

CONTROL PANEL'S LOW LEVEL ALARM FOR DRY RUN PROTECTION (NOTE: DRY RUN PROTECTION

5 PSI GAS		
		440
MEASURED LENGTH	=	110'
ADD FOR VALVES AND FITTINGS (10%)	=	11'
TOTAL EQUIVALENT LENGTH	=	121'
DESIGN:		
1999 NATIONAL FUEL GAS TABLE 9.9 - 150' COLUMN	CODE	
8 OUNCE GAS		
MEASURED LENGTH	=	333
ADD FOR VALVES AND FITTINGS (10%)	=	33
TOTAL EQUIVALENT LENGTH	=	366
DESIGN:		

<u>SYMBOLS</u>	PLUMBING PIPING LEGEND DESCRIPTION	
	EXISTING TO BE REMOVED	
- —SAN — —	SANITARY OR WASTE PIPING BELOW SLAB(SAN)	
SAN	SANITARY OR WASTE PIPING ABOVE SLAB(SAN.)	
SD	STORM DRAIN PIPING (SD)	
—— OFD ———	STORM OVERFLOW DRAIN (OFD)	
- — SD — —	STORM PIPING BELOW SLAB(SD)	
— AW — —	ACID WASTE PIPING BELOW SLAB (AW)	
—— PD ——	PUMPED DISCHARGE (PD)	
—— CD ——	CONDENSTATE DRAIN PIPING (CD)	
—— D ———		
	CONDENSTATE - INDIRECT DRAIN PIPING (D) VENT PIPING (V)	
CW	COLD WATER PIPING (CW)	
HWD	HOT WATER PIPING (HW)	
HWR	HOT WATER RETURN PIPING (HWR)	
—— SCW ——	SOFT COLD WATER PIPING (SCW)	
— AIR —	COMPRESSED AIR PIPING (A)	
—— TP ——	TRAP PRIMER LINE (TP)	
— F — — AS — —	FIRE PROTECTION PIPING (F)	
	AUTOMATIC SPRINKLER PIPING (AS)	
—— GAS ——	NATURAL GAS PIPING (G)	
—— DI ——	DEMINERALIZATION WATER(DI)	
OWS	OIL WATER SEPARATOR	
-	FLOW DIRECTIONAL ARROW	
	SHUT-OFF VALVE	
	BALANCING VALVE (BV)	
	SOLENOID VALVE (SV)	
	BALL VALVE (BV)	
	BUTTERFLY VALVE	
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)	
<u> </u>	HORIZONTAL SWING CHECK	
	UNION	
<u> </u>	HORIZONTAL SWING CHECK	
	REDUCER OR INCREASER	
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)	
+5	PIPING DOWN	
+5+	RISE OR DROP PIPING	
+0	PIPING UP -OR- PIPING UP & DOWN	
	CAP ON END OF PIPE	
	CLEANOUT (WALL OR CEILING) (CO)	
<i>β</i>	FLOOR CLEANOUT (FCO)	
Ø	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)	
φ-φ	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)	
0-131-	FIRE DEPARTMENT VALVE AT RISER	
\$	FIRE HYDRANT	
\mathcal{A}	FIRE DEPARTMENT CONNECTION	
Ч Р		
	PRESSURE REDUCING VALVE (PRV)	
<u>+</u> ‡+	BRANCH CONNECTION OUT OF TOP	
	BRANCH CONNECTION OUT OF BOTTOM	
	BRANCH CONNECTION OUT OF SIDE	
*	WYE & 1/8TH BEND BRANCH CONNECTION	
ho	WYE BRANCH CONNECTION	
‡	HOSE BIBB	
	PRESSURE GAUGE WITH COCK	
#	THERMOMETER	
<u> </u>	THERWICIVIETER	
	GAS PRESSURE REGULATOR	
	TEST COCK	
	GAS METER	
=[]	WALL HYDRANT	
$\overline{\mathbb{A}}$	VALVE IN RISE	
₩.	ASME TEMPERATURE & PRESSURE RELIEF VALVE	
- -	VACUUM RELIEF VALVE	
	ANGLE VALVE	
*	OS&Y VALVE	
——₩——		
	ROOF DRAIN	
1	REFER TO KEVED NOTE	
1	REFER TO KEYED NOTE	
FS	FLOW SWITCH	
num I	FLOOD CIVIL (EQ.)	
	FLOOR SINK (FS)	
0	FLOOR DRAIN (FD)	
oc—	FLOOR DRAIN WITH P-TRAP (FD)	
©c—	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)	
∞ <u> </u>	HUB DRAIN (HD)	
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER	
AP	ACCESS PANEL LOCATION SYMBOL	
A	SHOCK ABSORBER	
DIA	DIAMETER	
EER	EXISTING TO REMAIN	
ETR	EXISTING TO REMAIN	
(N)	NEW	
N.C.	NORMALLY CLOSED	
N.O.	NORMALLY OPEN	
	NEW CONNECTION	
S.F.	SQUARE FEET	
TYP	TYPICAL	
VTR	VENT THROUGH ROOF	
VTA	VENT TO ATMOSPHERE	
[JE100_00?]	INVERT ELEVATION	
IE=100.00'	QUARTER OF AN INCLUSIONE	
1/4" PER FOOT	QUARTER OF AN INCH SLOPE	
	1/8TH OF AN INCH SLOPE	
1/4" PER FOOT		
1/4" PER FOOT 1/8" PER FOOT	1/8TH OF AN INCH SLOPE	

							_
		PLUMBING FIXT	URE SCH	EDULE			_
	TYPE: DESCRIPTION:	WC-1 (T.A.S. COMPLIANT) WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA, 1.28 GALLON PER	TYPE: DESCRIPTION:	SK-1 (T.A.S. COMPLIANT) - HOT AND COLD WATER SINGLE COMPARTMENT SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE	TYPE: SERVICE: DESCRIPTION:	FS-1 WHIRLPOOL THERAPEUTIC TUB/EQUIPMENT INDIRECT A.R.C. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP	=
	SEAT: FLUSH VALVE:	FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. WITH EVERCLEAN. AMERICAN STANDARD "AFWALL" 3351.101. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. CHURCH 9500SSCT 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, POLISHED CHROME CLOSET	FAUCET:	TYPE 304 STAINLESS STEEL, 22" X 19" X 5-1/2" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK. THREE FAUCET HOLES ON 4" CENTERS. ELKAY LRAD-221955. CHROME PLATED BRASS DECK MOUNTED FITTING WITH 8" RIGID/SWING GOOSENECK SPOUT AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER TURN CERAMIC	TRAP SEAL:	SUMP, ALUMINUM DOME SECONDARY STRAINER, CLAMPING DEVICE WITH STAINLESS STEEL HALF TOP GRATE AND BOTTOM OUTLET WADE 9140-15-26-48-85 PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO	
	CARRIER:	FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111-1.28 WADE 311 AND 330 SERIES -AM1.	MIXING VALVE:	DISC OPERATING CARTRIDGES, VANDAL RESISTANT 1.5 GPM NON-AERATING LAMINAR FLOW OUTLET. CHICAGO MODEL 786-GN8AE36XKABCP PROVIDE ASSE 1070 RATED LAWLER MODEL 570-38 POINT OF USE	ROUGH-IN:	MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.	_
	ROUGH-IN:	4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	STRAINER:	THERMOSTATIC MIXING VALVE AT LAVATORY TO TEMPER OUTLET WATER SUPPLY TO 105° WITH 0.5 GPM FLOW RATE CHROME PLATED BRASS WIDE TOP SINK STRAINER WITH PERFORATED STRAINER, 1-1/2" 17 GAUGE CHROME PLATED BRASS TAILPIECE.	TYPE: SERVICE: DESCRIPTION:	FS-2 MECHANICAL ROOM/EQUIPMENT INDIRECT A.R.C. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, ALUMINUM DOME SECONDARY STRAINER, CLAMPING DEVICE	
	TYPE: DESCRIPTION:	WC-X1 (T.A.S. COMPLIANT) WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA, 1.28 GALLON PER FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. WITH EVERCLEAN. AMERICAN STANDARD "AFWALL" 3351.101.	P-TRAP:	MCGUIRE 152MN. 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE.	TRAP SEAL:	WITH STAINLESS STEEL HALF TOP GRATE. BOTTOM OUTLET WITH 1/2" TRAP PRIMER CONNECTION. WADE 9140-6-15-26-48-85. TRAP SERVED BY TRAP PRIMING DEVICE RE: ASSOCIATED PLAN FOR TYPE	
	SEAT: FLUSH VALVE:	ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. CHURCH 9500SSCT 1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, POLISHED CHROME CLOSET	SUPPLIES:	MCGUIRE 8912C. 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVES WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.	ROUGH-IN:	REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT. FS-3	_
	CARRIER: ROUGH-IN:	FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111-1.28 EXISTING TO REMAIN RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS	ROUGH-IN: TYPE:	2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. WP-1 - (T.A.S. COMPLIANT) WHIRLPOOL THERAPEUTIC TUB - ALTERNATE	SERVICE: DESCRIPTION:	ICE MACHINE DRAIN / BACKFLOW PREVENTER DISCHARGE CAST IRON 8" SQUARE FLOOR SINK WITH 6" DEEP SUMP, A.R.E. INTERIOR, ALUMINUM DOME BOTTOM STRAINER, 1/2 STAINLESS STEEL TOP, CLAMPING DEVICE. WADE 9110-15-26-27-SS.	
	TYPE: DESCRIPTION:	WC-2 (STANDARD HEIGHT) WATER CLOSET, WALL HUNG, WHITE VITREOUS CHINA, 1.28 GALLON PER	DESCRIPTION: FAUCET:	THERAPEUTIC TUB BY DIVISION 11, CONTRACTOR TO COORDINATE WITH ARCHITECT FOR ROUGH-IN AND FINAL CONNECTIONS. SOLID BIMETAL THERMOSTAT, ASSE 1017 CERTIFIED MIXING VALVE. ADJUSTABLE HIGH	TRAP SEAL: ROUGH-IN:	PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS / EQUIPMENT PLACEMENT.	
	SEAT:	FLUSH SIPHON JET ACTION, ELONGATED CLOSET BOWL WITH 1-1/2" TOP SPUD AND BOLT COVERS. WITH EVERCLEAN. AMERICAN STANDARD "AFWALL" 3351.101. ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF SUSTAINING CONCEALED CHECK HINGES. CHURCH 9500SSCT		TEMPERATURE LIMIT STOP SET FOR 120°, BOTTOM INLETS, SIDE OUTLET. OUTLET VOLUME CONTROL/SHUTOFF WITH VACUUM BREAKER. INTEGRAL COMBINATIOLN CHECK STOPS WITH WALL SUPPORT PROVIDE WITH 6' RUBBER HOSE ATTACHMENT AND WALL HOOK. LEONARD TM-504-26-LF	TYPE: DESCRIPTION:	RD-1	_
	FLUSH VALVE: CARRIER:	1.28 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, POLISHED CHROME CLOSET FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111-1.28 WADE 311 AND 330 SERIES -AM1.	ROUGH-IN: TYPE: DESCRIPTION:	3/4" HOT AND COLD WATER SH-X1 (T.A.S. COMPLIANT) - INDIVIDUAL SHOWER STATION SHOWER, JOB BUILT BASE INSTALLED PER ARCHITECTURAL DRAWINGS.	ROUGH-IN:	ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. PUSH ON CONNECTION ONLY. WADE 3000-46-52-53 REFER TO FLOOR PLANS FOR SIZES.	
	ROUGH-IN:	4" WASTE, 2" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	CONTROLS:	PRESSURE BALANCING HOT AND COLD WATER SHOWER CONTROL VALVE WITH VANDAL RESISTANT LEVER HANDLE, INTEGRAL CHECKSTOPS, AND ADJUSTABLE TEMPERATURE LIMIT SCREW NOT TO EXCEED 120°. CAST BRASS VALVE	TYPE: DESCRIPTION:	FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, 2" HIGH	
	TYPE: DESCRIPTION:	U-1 (T.A.S. COMPLIANT) URINAL, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH, SIPHON JET ACTION, INTEGRAL TRAP. REMOVEABLE DOME STRAINER AMERICAN STANDARD WASHBROOK 6590.001		BODY. ALL EXPOSED MATERIALS STAINLESS STEEL OR CHROME PLATED BRASS. 1.5 GPM HAND HELD SHOWER WITH 60" METAL CLAD FLEXIBLE HOSE, CHROME PLATED BRASS SUPPLY ARM, VACUUM BREAKER, MOUNTING BRACKET	ROUGH-IN:	WATER DAM, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. PUSH ON CONNECTION ONLY. WADE 3000-D-46-52-53. REFER TO FLOOR PLANS FOR SIZES.	
	FLUSH VALVE:	0.5 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL186-0.5-H-573-CP CAP.	DRAIN: TRAP SEAL:	AND 24" METAL SLIDE BAR. BRADLEY 1C-HD-AKV-A24. EXISTING DRAIN TO REMAIN, CLEAN AND RESTORE STRAINER TO LIKE NEW CONDITION. REPLACE IF CRACKED OR BROKEN. PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO	TYPE:	DN-1 OVERFLOW DOWNSPOUT NOZZLE. CAST BRONZE WITH THREADED OR NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL.	_
	CARRIER:	RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. WADE 401-AM11.	ROUGH-IN:	MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.		INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. WADE 3940-RB. REFER TO FLOOR PLANS FOR SIZES.	
	ROUGH-IN: TYPE:	2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. U-X1 (T.A.S. COMPLIANT)	TYPE: DESCRIPTION:	EDF-1 (T.A.S. COMPLIANT) WALL HUNG, BARRIER FREE, SELF-CONTAINED, SPLIT-LEVEL ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLING STATION & BI-LEVEL ADA COOLER	TYPE: DESCRIPTION:	ECO EXTERIOR CLEANOUT TO GRADE, CAST IRON BODY WITH WITH GASKET SEAL, AND ROUND SCORIATED VANDAL	
	DESCRIPTION:	URINÀL, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH, SIPHON JET ACTION, INTEGRAL TRAP. REMOVEABLE DOME STRAINER AMERICAN STANDARD WASHBROOK 6590.001		REFRIGERATED ULTRA-CAPACITY LEAD REDUCTION. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50 GPT F DRINKING WATER, BASED ON 80 GPT INLET WATER AND 90 FAMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL*, AUTOMATIC FILTER STATUS RESET, ENERGY	TYPE:	RESISTANT DUCTILÉ IRON TOP. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE 6000-12.	
	FLUSH VALVE: CARRIER:	0.5 GALLON FLUSH CYCLE. EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER. VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL186-0.5-H-573-CP CAP. EXISTING TO REMAIN		SAVINGS, FILTERED, GREEN TICKER™, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, ALCOVE LIGHT, PRO FILTRATION SYSTEM, TOP MOUNT QUICK FILTER CHANGE, STAINLESS STEEL ALCOVE, AUTOMATIC FILTER FLUSH. FURNISHED WITH FLEXI-GUARD ® SAFETY BUBBLER. ELECTRONIC	DESCRIPTION:	FCO CAST IRON BODY WITH HEAVY DUTY ROUND ADJUSTABLE STAINLESS STEEL SCORIATED COVER WITH SQUARE OR DIAMOND PATTERN, GASKET SEAL, ABS PLUG AND WITH CARPET MARKER WHERE REQUIRED.	
,	ROUGH-IN: TYPE:	RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS L-1 (T.A.S. COMPLIANT) - HOT AND COLD WATER		BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION.WITH A CLEAR KNEE SPACE GREATER THAN 27" HIGH. NOTE: UNIT SHOULD BE ABLE TO DISPENSE UNCHILLED WATER DURING A	TYPE: DESCRIPTION:	WADE 6000-85. FOR CARPETED FLOORS PROVIDE WADE 6000-CM. WCO WALL CLEANOUT. CAST IRON CLEANOUT FERRULE WITH DUCTILE	_
	DESCRIPTION: FAUCET:	LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.012. CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET WITH	P-TRAP:	POWER OUTAGE. ELKAY LZSTL8WSBPRO WITH APRON 98324C. 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872.		IRON PLUG AND ROUND STAINLESS COVER PLATE WITH CENTER SECURING SCREW. WADE 8550 WITH 8480-R6. PROVIDE WADE 8560 CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.	
	MIXING VALVE:	COVER PLATE, 4-1/8" SPOUT, AND PUSH BUTTON HANDLE INDEXED "PUSH". SELF-CLOSING METERING CARTRIDGE, VANDAL RESISTANT 0.5 GPM OUTLET. CHICAGO MODEL 857-E2805-765PSHAB. PROVIDE ASSE 1070 RATED LAWLER MODEL 570-38 POINT OF USE	SUPPLIES: CARRIER:	1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165LK. RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE	TYPE: SERVICE: DESCRIPTION:	(E)FD - EXISTING FLOOR DRAIN TOILET ROOMS AND GENERAL USE EXISTING FLOOR DRAIN TO REMAIN, CLEAN AND RESTORE STRAINER TO LIKE	_
	STRAINER:	THERMOSTATIC MIXING VALVE AT LAVATORY TO TEMPER OUTLET WATER SUPPLY TO 105° WITH 0.5 GPM FLOW RATE 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH	ROUGH-IN:	FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE 403-BL-BFS 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL	TRAP SEAL: TYRBUGH-IN:	NEW CONDITION. REPLACE IF CRACKED OR BROKEN. EXISTING TO REMAIN EXISTING TO REMAIN	
	P-TRAP:	TAILPIECE. MCGUIRE #155A. 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.	TYPE: DESCRIPTION:	DRAWINGS FOR HEIGHT REQUIREMENTS. EDF-X1 (T.A.S. COMPLIANT) WALL HUNG, BARRIER FREE, SELF-CONTAINED, SPLIT-LEVEL ELECTRIC	TYPE: SERVICE: DESCRIPTION:	(E)FD2 - EXISTING FLOOR DRAIN GENERAL USE EXISTING FLOOR DRAIN TO REMAIN, PROVIDE NEW RETROFIT RAISED LIP STRAINER SIMILAR TO ZURN 7400LOR FOULVALENT.	
	SUPPLIES: CARRIER:	1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2"		DRINKING FOUNTAIN WITH BOTTLE FILLING STATION & BI-LEVEL ADA COOLER REFRIGERATED ULTRA-CAPACITY LEAD REDUCTION. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50 □ F DRINKING WATER, BASED ON 80 □ F INLET WATER AND 90 □ F AMBIENT. PER ASHRAE 18 TESTING. FEATURES SHALL	TRAP SEAL: ROUGH-IN: TYPE:	EXISTING TO REMAIN EXISTING TO REMAIN (E)FCO - EXISTING FLOOR CLEANOUT	_
		BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE 520-08.		INCLUDE ANTIMICROBIAL*, AUTOMATIC FILTER STATUS RESET, ENERGY SAVINGS, FILTERED, GREEN TICKER™, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, ALCOVE LIGHT, PRO FILTRATION SYSTEM, TOP MOUNT QUICK FILTER CHANGE, STAINLESS STEEL ALCOVE, AUTOMATIC FILTER	SERVICE: DESCRIPTION:	GÉNERAL USE EXISTING TO REMAIN	_
	ROUGH-IN: TYPE:	2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. L-X1 (T.A.S. COMPLIANT) - HOT AND COLD WATER		FLUSH. FURNISHED WITH FLEXI-GUARD ® SAFETY BUBBLER. ELECTRONIC BOTTLE FILLER SENSOR WITH ELECTRONIC FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION.WITH A CLEAR KNEE SPACE GREATER THAN 27" HIGH.	DESCRIPTION:	SK-X1 (T.A.S. COMPLIANT) - HOT AND COLD WATER SINGLE COMPARTMENT SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, 22" X 19" X 5-1/2" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK. THREE FAUCET HOLES ON 4" CENTERS.	
	DESCRIPTION: FAUCET:	LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.012. CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET WITH	P-TRAP:	NOTE: UNIT SHOULD BE ABLE TO DISPENSE UNCHILLED WATER DURING A POWER OUTAGE. ELKAY LZSTL8WSBPRO WITH APRON 98324C. 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION	FAUCET:	ELKAY LRAD-221955. CHROME PLATED BRASS DECK MOUNTED FITTING WITH 8" RIGID/SWING GOOSENECK SPOUT AND 4" WRIST BLADE HANDLES ON 8" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 1.5 GPM NON-AERATING	
	MIXING VALVE:	COVER PLATE, 4-1/8" SPOUT, AND PUSH BUTTON HANDLE INDEXED "PUSH". SELF-CLOSING METERING CARTRIDGE, VANDAL RESISTANT 0.5 GPM OUTLET. CHICAGO MODEL 857-E2805-765PSHAB.	SUPPLIES:	TO WALL WITH ESCUTCHEON. MCGUIRE 8872. 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165LK. RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE	MIXING VALVE:	LAMINAR FLOW OUTLET. CHICAGO MODEL 786-GN8AE36XKABCP PROVIDE ASSE 1070 RATED LAWLER MODEL 570-38 POINT OF USE THERMOSTATIC MIXING VALVE AT LAVATORY TO TEMPER OUTLET WATER	
	STRAINER:	PROVIDE ASSE 1070 RATED LAWLER MODEL 570-38 POINT OF USE THERMOSTATIC MIXING VALVE AT LAVATORY TO TEMPER OUTLET WATER SUPPLY TO 105° WITH 0.5 GPM FLOW RATE 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH		ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. WADE 403-BL-BFS	STRAINER:	SUPPLY TO 105° WITH 0.5 GPM FLOW RATE CHROME PLATED BRASS WIDE TOP SINK STRAINER WITH PERFORATED STRAINER, 1-1/2" 17 GAUGE CHROME PLATED BRASS TAILPIECE. MCGUIRE 152MN.	
	P-TRAP:	TAILPIECE. MCGUIRE #155A. 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872.	ROUGH-IN: TYPE: DESCRIPTION:	RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS HB-1 - COLD WATER HOSE BIBB. EXPOSED TYPE, MILD CLIMATE, WALL-MOUNTED FAUCET WITH	P-TRAP: SUPPLIES:	1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912C. 1/2" I.P.S. X 3/8" O.D. CHROME PLATED LOOSE KEY STOP VALVES	
	SUPPLIES:	1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.	ROUGH-IN:	3/4" F.P.T. INLET, 3/4" MALE HOSE THREAD OUTLET AND SELF-DRAINING ANTI-SIPHON VACUUM BREAKER. CHROME PLATED BRASS FINISH WITH REMOVABLE TEE HANDLE. CHICAGO 952-XKCP.	ROUGH-IN:	WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. RE-USE EXISTING WASTE, WATER AND VENT ROUGHUNS	
7	CARRIER:	RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE 520-08.	TYPE:	3/4" COLD WATER. INSTALL WITH OUTLET AT 18" A.F.F. OR AS DIRECTED BY ARCHITECT/OWNER. WH-1	GENERAL NOTES:	TORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD	
	ROUGH-IN: TYPE:	RE-USE EXISTING WASTE, WATER AND VENT ROUGH-INS L-2 (T.A.S. COMPLIANT) - HOT AND COLD WATER LANGE OF THE PROPERTY OF THE PRO	DESCRIPTION:	WALL HYDRANT, CONCEALED BOX TYPE, 3/4" NON-FREEZE, CHROME PLATED BRASS FINISH WITH ANTI-SIPHON VACUUM BREAKER AND LOOSE TEE KEY. INSTALL WITH BOTTOM OF BOX 18" AFF		WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE	
	DESCRIPTION: FAUCET:	LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.012. 4" FIXED CENTERS, SINGLE LEVER HOT AND COLD WATER,	ROUGH-IN:	WOODFORD MODEL B65 3/4" HOT AND COLD WATER RVB-1		REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN	
		THERMOSTATIC MIXING FAUCET. CERAMIC MIXING CARTRIDGE (ASSE 1070 CERTIFIED) INCLUDES SCALD PROTECTION AND INTEGRAL INLET CHECK VALVES, 0.5 GPM AERATOR. HOT WATER INLET TEMPERATURE 100° - 180°, MAXIMUM HOT WATER OUTLET	DESCRIPTION:	REFRIGERATOR VALVE BOX, 10-3/4" X 9", 16 GAUGE STEEL WITH WHITE POWDER COAT FINISH, 5/8" O.D. SWEAT CONNECTION. PROVIDE FILTER WHEN MAKING FINAL CONNECTION. GUY GRAY #MIAB1AB WITH AQUA-PURE AP717 FILTER.	INSULATI	ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS. ION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE	
	CTDAINES	TEMPERATURE OF 105° MINIMUM FLOW RATE FOR TEMPERATURE LIMITING OF 0.35 GPM. MAXIMUM EMERGENCY TEMPERATURE OUT AT COLD WATER FAILURE: 120°. CHICAGO MODEL 420-T41E2805ABCP	ROUGH-IN: TYPE: DESCRIPTION:	IMC-1 ICE MACHINE CONNECTION, WATER SUPPLY VALVED AT WALL. PROVIDE		T.A.S. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.	
	STRAINER: P-TRAP:	1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A. 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE.	ROUGH-IN:	DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER AND WATER FILTER. WATTS 007-S BACKFLOW PREVENTER, AQUA-PURE AP510 FILTER. ROUTE BACKFLOW PREVENTER DISCHARGE TO FLOOR SINK SERVING ICE MACHINE. 3/4" COLD WATER. COORDINATE ROUGH-IN LOCATION/HEIGHT,	INSERT T	TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.	
	SUPPLIES:	MCGUIRE 8872. 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK.		FINAL CONNECTION WITH EQUIPMENT BEING INSTALLED AND WITH ARCHITECTURAL/CASEWORK DRAWINGS.		PLUMBING GENERAL NOTES	_
	CARRIER:	RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING	TYPE: SERVICE: DESCRIPTION:	TP-1		EGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION ENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS	
	ROUGH-IN:	DEVICE, AND LEVELING SCREWS. WADE 520-08. 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.	TYPE: SERVICE:	TP-2 SERVES 1 TO 30 FLOOR DRAIN/FLOOR SINK TRAPS, REFER TO PLANS.	MATERIAL C THOUGH NC	NGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN OT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS	
	TYPE: DESCRIPTION:	L-X2 (T.A.S. COMPLIANT) - HOT AND COLD WATER LAVATORY, WALL HUNG, VITREOUS CHINA, 20-1/2" X 18-1/4" WITH FRONT OVERFLOW AND CONCEALED ARM SUPPORTS, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.012.	DESCRIPTION: ROUGH-IN:	ELECTRONIC TRAP PRIMER WITH DISTRIBUTION MANIFOLD AND CABINET. SURFACE MOUNT IN WHERE SHOWN. PRECISION PLUMBING PRODUCTS PRIME TIME MODEL PT SERIES OR MIFAB MI-100-32. 3/4" COLD WATER	IS OBVIOUS	HOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH LY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN IMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF	۲.
	FAUCET:	4" FIXED CENTERS, SINGLE LEVER HOT AND COLD WATER, THERMOSTATIC MIXING FAUCET. CERAMIC MIXING CARTRIDGE (ASSE 1070 CERTIFIED) INCLUDES SCALD PROTECTION AND INTEGRAL	TYPE: SERVICE:	FD-1 { TOILET ROOMS AND GENERAL USE	3. THE CONTR	ACTOR SHALL COORDINATE ALL WORK CLOSELY WITH MECHANICAL AND L EQUIPMENT, DUCTWORK, CONDUIT AND STRUCTURAL ITEMS. SHOULD A	
		INLET CHECK VALVES, 0.5 GPM AERATOR. HOT WATER INLET TEMPERATURE 100° - 180°, MAXIMUM HOT WATER OUTLET TEMPERATURE OF 105° MINIMUM FLOW RATE FOR TEMPERATURE LIMITING OF 0.35 GPM. MAXIMUM EMERGENCY TEMPERATURE OUT AT	DESCRIPTION:	FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET WITH PLUGGED TRAP PRIMER CONNECTION. WADE 1100-MR6-85.	INSTALLING 4. ALL WORK, I	AN ALTERNATE PIPING PLAN. METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE	
	STRAINER:	COLD WATER FAILURE: 120°. CHICAGO MODEL 420-T41E2805ABCP 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A.	TRAP SEAL:	PROVIDE FLUSH VALVE TRAP PRIMER WHERE ACCESSIBLE. PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. (IN ACCORDA OTHER OFF	ANCE WITH THE CITY BUILDING CODES, INSPECTION REGULATIONS AND ALL ICIALS HAVING JURISDICTION.	
	P-TRAP: SUPPLIES:	1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH	ROUGH-IN:	PROVIDE WHERE FLUSH VALVE TRAP PRIMER PIPING WILL EXCEED 20'-0" REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.	ELEVATIONS 6. COORDINAT	S OR PIPE ROUTING TO CLEAR GRADE BEAMS. TE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS	
	CARRIER:	ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE	TYPE: SERVICE: DESCRIPTION:	FD-2 TOILET ROOMS AND GENERAL USE FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER	7. PROTECT E	CT ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS. QUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL N OF CONSTRUCTION.	
	ROUGH-IN:	SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE 520-08. 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO		STAINLESS STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET WITH PLUGGED TRAP PRIMER CONNECTION. WADE 1100-MR6-85.	8. REMOVE AL	L EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OUCH UP WITH PAINT WHERE REQUIRED.	
	TYPE: DESCRIPTION:	ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS. MS-1 MOP SINK BASIN, 32" X 32" X 12" HIGH CORNER TYPE, PRECAST TERRAZZO	TRAP SEAL: ROUGH-IN:	TRAP SERVED BY TRAP PRIMING DEVICE RE: ASSOCIATED PLAN FOR TYPE REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.	DI-ELECTRIC	CTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH C UNIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.	
		WITH 6" DROPPED FRONT, STAINLESS STEEL THRESHOLD CAP, AND DOUBLE STAINLESS STEEL WALL GUARDS. STERN-WILLIAMS "CORLOW" SBC-1725 WITH BP SPLASH PANELS, #T-40 MOP HANGER, AND #T-35 HOSE.	TYPE: SERVICE: DESCRIPTION:	FD-3 MECH ROOM/CENTRAL PLANT FLOOR DRAIN, HEAVY DUTY PAINTED CAST IRON BODY, 12" DIAMETER	MINIMUM 10 FRESH AIR I	SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN '-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND 20'-0" FROM ALL NTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.	
	FAUCET:	CHROME PLATED BRASS WALL MOUNTED FITTING WITH CHECK IN STOPS, ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS. CERAMIC DISC CARTRIDGES, 3/4" MALE HOSE THREAD OUTLET.		LOOSE SET DUCTILE IRON GRATE WITH SATIN FINISH 304 STAINLESS STEEL VENEER, MEDIUM DUTY SUMP, SEDIMENT BUCKET, INTEGRAL CLAMPING COLLAR. LOOSE SET ALUMINUM SEDIMENT BUCKET. WADE 1210-304-27.	ARE CONCE	NELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, ETC. FALED WITHIN WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS HROUGH LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.	
	ROUGH-IN:	CHICAGO #445-897SRCXKCP. 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.	TRAP SEAL: ROUGH-IN:	TRAP SERVED BY TRAP PRIMING DEVICE RE: ASSOCIATED PLAN FOR TYPE REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH ARCHITECTURAL / KITCHEN CONSULTANT DRAWINGS.	BASE OF AL SIZE AS THE	S: PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE L VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME PIPE THEY SERVE, CONFORMING TO CODE REQUIREMENTS. PROVIDE SUITABLE OOR CLEANOUTS WITH ACCESSORIES TO OBSCURE FROM VIEW.	
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M.E.P. ENGINEER

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BRADLEY KALMANS

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Monika Castillo Director Proj. Arch. Tam Quang

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25-0056.00 SHEET TITLE

PLUMBING SCHEDULES

SHEET NO.