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ET TITLE

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DEDUCT ALTERNATE TO BASE BID
NEW SCIENCE ROOM SCOPE INDICATED. IF DEDUCT
ALTERNATE IS MOVED FORWARD WITH GC TO
PROVIDE ALL UNDERGROUND ROUGH-IN AS
REQUIRED FOR FUTURE BUILD OUT AND STORM
DRAINAGE. ABOVE GROUND SANITARY, DOMESTIC,
AND EQUIPMENT IS NOT REQUIRED. REFERENCE
ARCHITECTURE FOR EXACT REQUIREMENTS FOR
DEDUCT ALTERNATE.

-

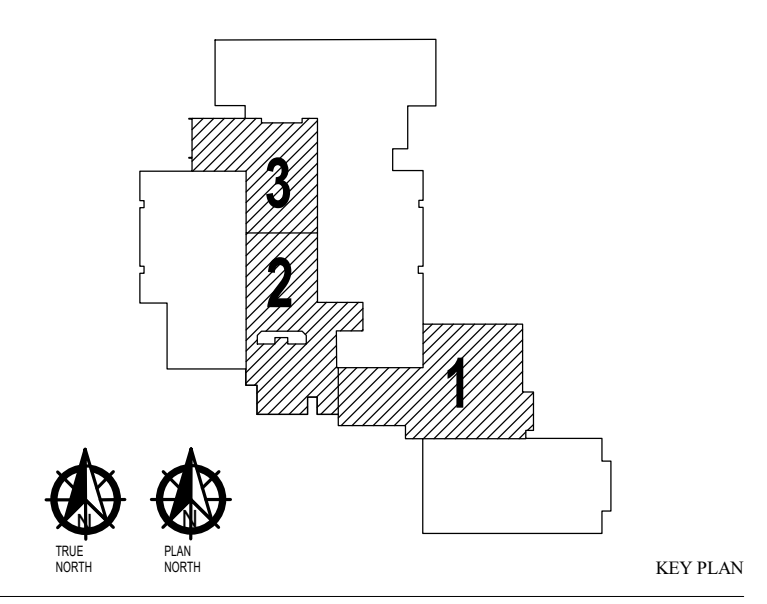


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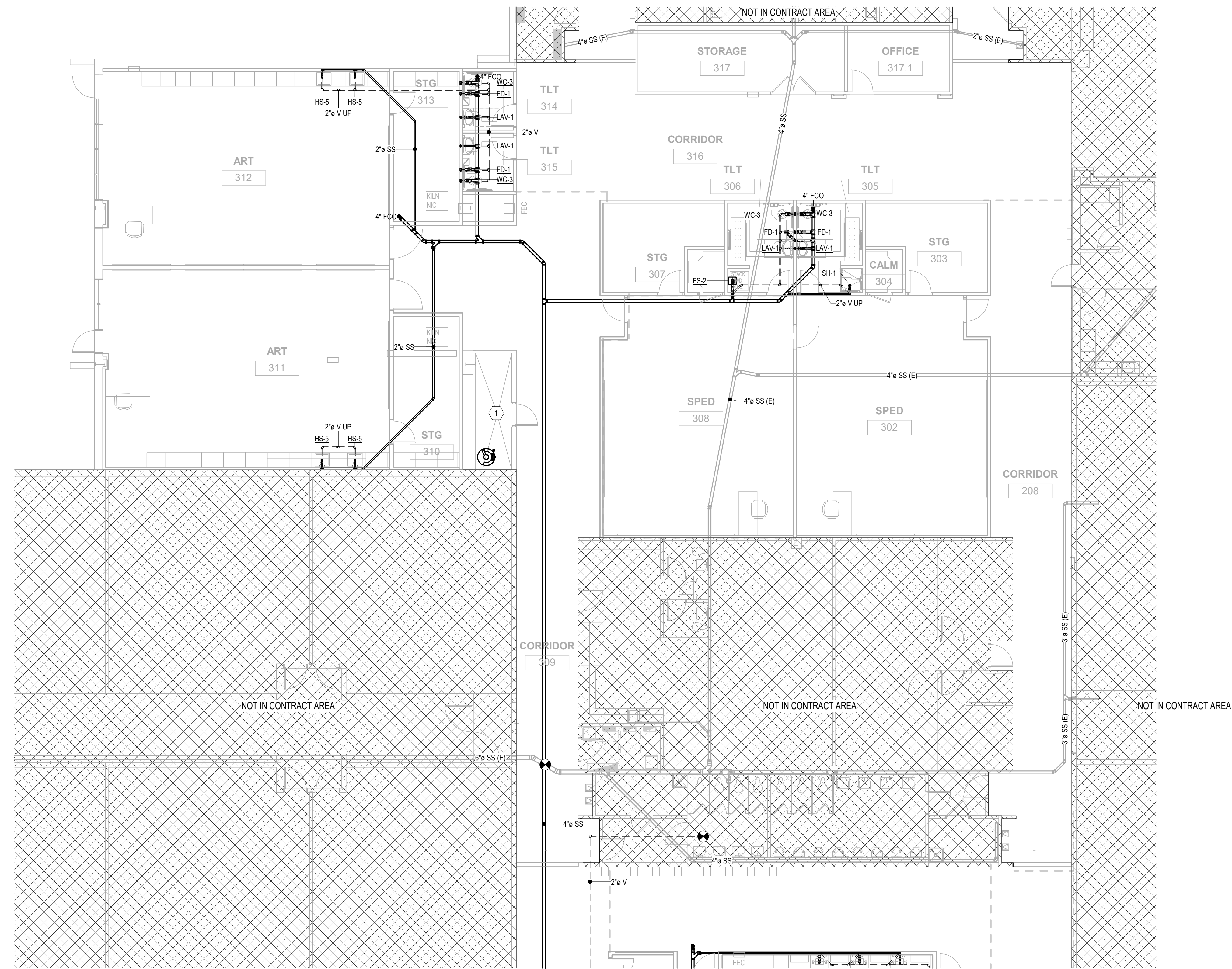
PROJECT



P102

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0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10' 11' 12' 13' 14' 15' 16' 17' 18' 19' 20' 21' 22' 23' 24' 25' 26' 27' 28' 29' 30' 31' 32' 33' 34' 35' 36' 37' 38' 39' 40' 41' 42' 43' 44' 45' 46' 47' 48' 49' 50' 51' 52' 53' 54' 55' 56' 57' 58' 59' 60' 61' 62' 63' 64' 65' 66' 67' 68' 69' 70' 71' 72' 73' 74' 75' 76' 77' 78' 79' 80' 81' 82' 83' 84' 85' 86' 87' 88' 89' 90' 91' 92' 93' 94' 95' 96' 97' 98' 99' 100'



1 DWV PLUMBING PLAN - AREA 3
1/8" = 1'-0"

KEYNOTES

- QC TO VERIFY EXISTING SANITARY DRAIN IS PRESENT WITHIN CLOSET. IF NOT, PROVIDE NEW FD-1 AND CONNECT TO EXISTING 4" ADJACENT SANITARY LINE. CONNECT VENT TO COMMON VENT LINE SERVING ART 311.

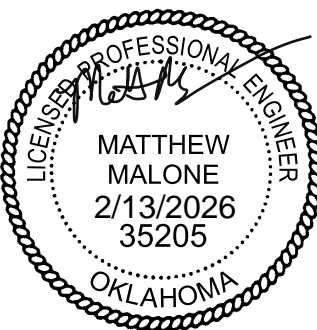
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architecture. interiors

8091 N. Owasso Expressway

Owasso, Oklahoma 74055

phone: 918.272.2022

web: stacy-group.com



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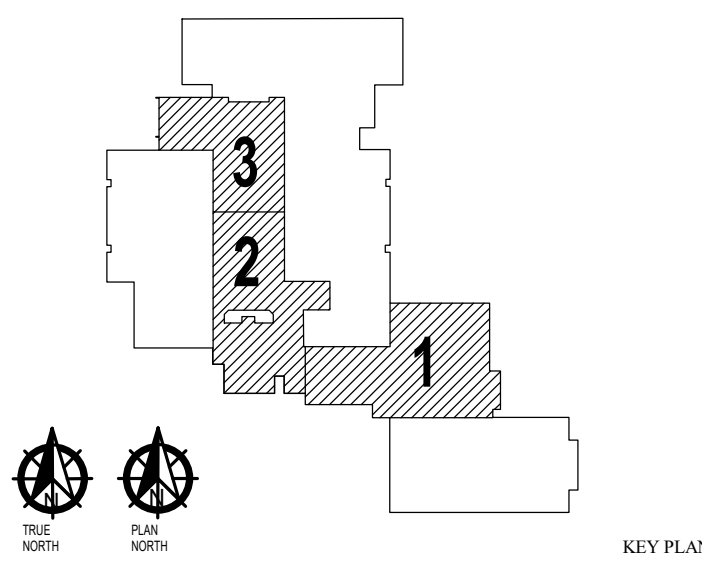


OWASSO
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ADDITION

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PROJECT



KEY PLAN

REVISIONS

11/25/2025

ISSUE DATE

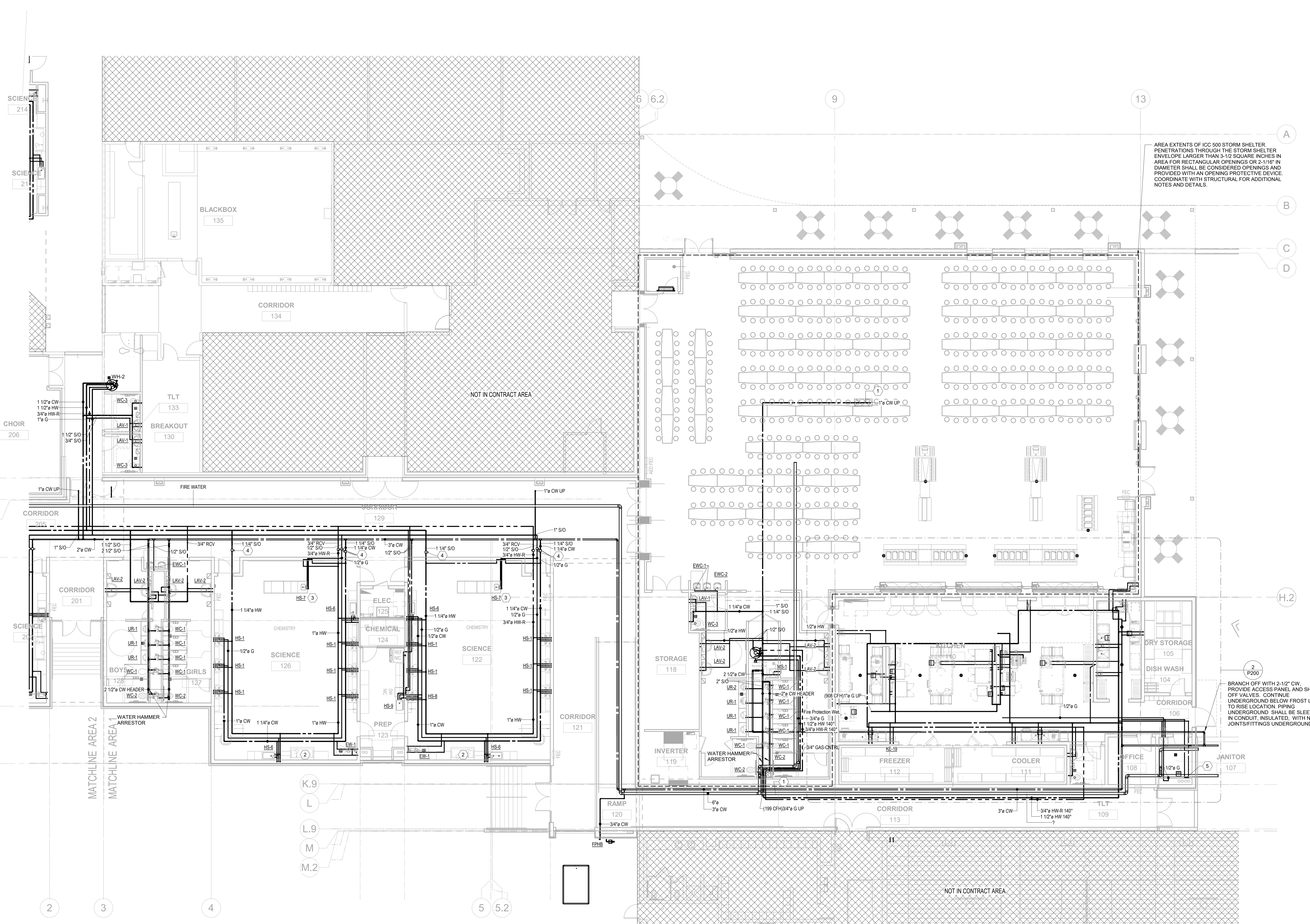
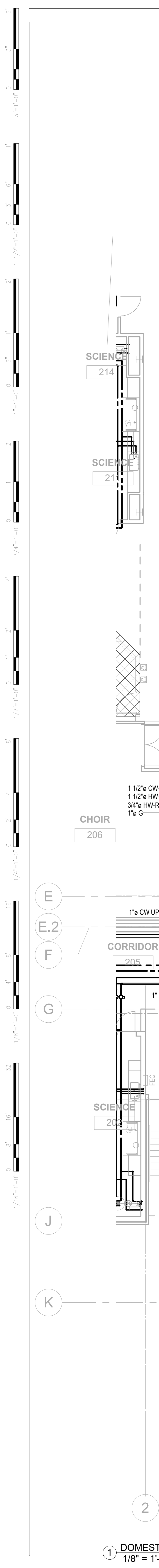
2001 PROJECT NO.
MDM DRAWN BY
EZ CHK'D BY

DWV PLUMBING
PLAN - AREA 3

P103

SHEET TITLE

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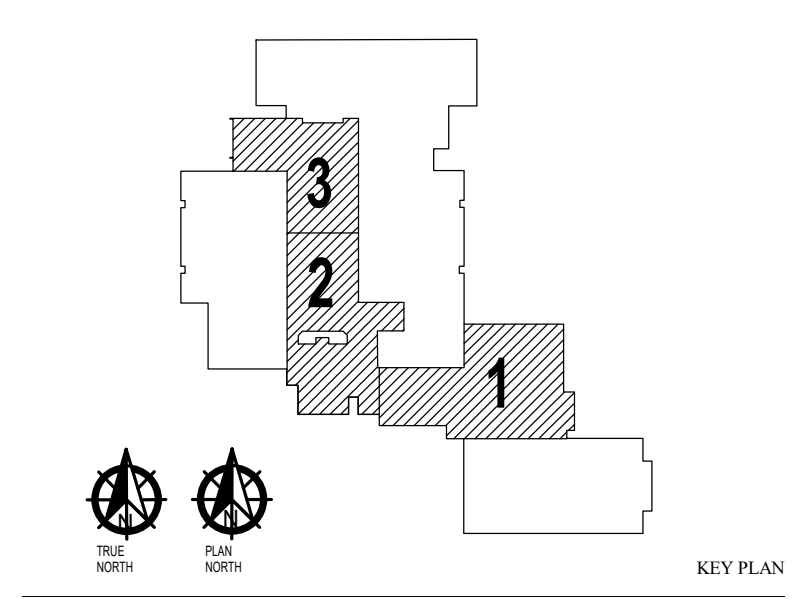
- KEYNOTES**
- 1 ROUTE THRU STRUCTURAL SHROUD. REFERENCE STRUCTURAL DRAWINGS FOR EXACT REQUIREMENTS.
 - 2 COORDINATE WITH SCIENCE LAB EQUIPMENT VENDOR FOR HOOD REQUIREMENTS AND PROVIDE ANY ADD WASTE, ACID VENT, NATURAL GAS CONNECTION, OR DOMESTIC WATER CONNECTIONS REQUIRED.
 - 3 WATER PIPE ROUTED UNDER SLAB TO SCIENCE LAB EQUIPMENT. LOCATE ROUGH-IN AT 9" AFF. PROVIDE BELOW SLAB PIPING TYPE K COPPER OR PEX. NO JOINTS BELOW SLAB. SLEEVE AND SEAL ALL SLAB PENETRATIONS.
 - 4 PROVIDE VENTLESS REGULATOR SET TO PRESSURE REQUIRED BY SCIENCE FUTURE VENDOR. COORDINATE WITH SCIENCE FUTURE VENDOR FOR REQUIRED GAS & DOMESTIC CONTROLS. COORDINATE WITH ELECTRICAL FOR ANY ADDITIONAL POWER REQUIREMENTS.
 - 5 PROVIDE 1/2" CW AND 1/2" HOT WATER FOR WASHING MACHINE CONNECTION. PROVIDE WITH WATER HAMMERS.

AREA EXTENTS OF ICC 500 STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND PROVIDED WITH AN OPENING PROTECTIVE DEVICE. COORDINATE WITH STRUCTURAL FOR ADDITIONAL NOTES AND DETAILS.



OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS
OWASSO, OK
2025



11/25/2025

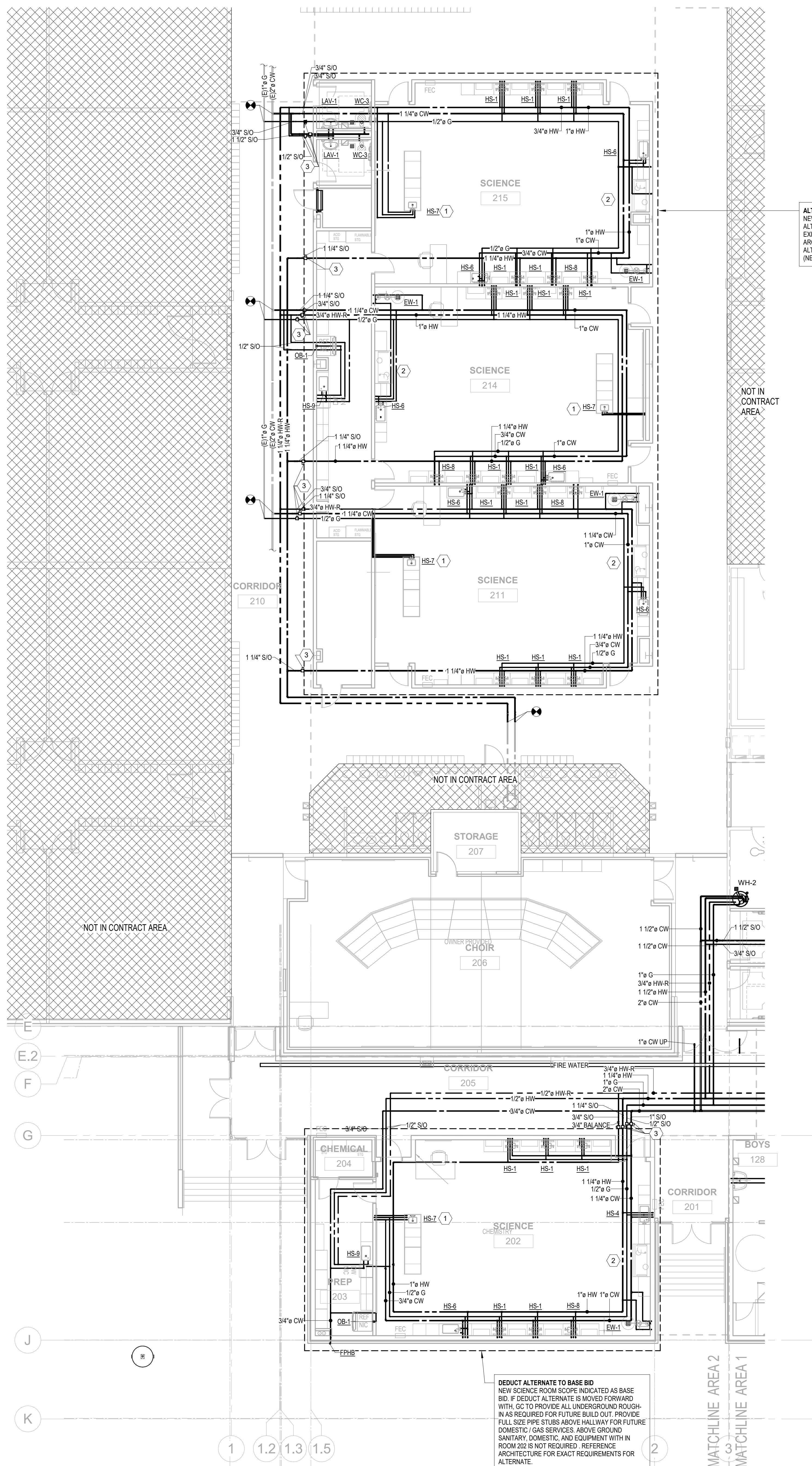
ISSUE DATE

DOMESTIC PLUMBING PLAN - AREA 1

P111

SHEET TITLE

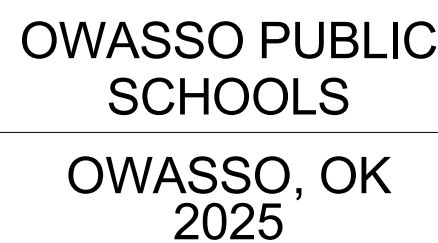
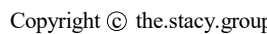
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DEDUCT ALTERNATE TO BASE BID
NEW SCIENCE ROOM SCOPE INDICATED AS BASE BID. IF DEDUCT ALTERNATE IS MOVED FORWARD WITH GC TO PROVIDE ALL UNDERGROUND ROUGH-IN AS REQUIRED FOR FUTURE BUILD OUT. PROVIDE FULL SIZE PIPE STUBS ABOVE HALLWAY FOR FUTURE DOMESTIC / GAS SERVICES. ABOVE GROUND SANITARY, DOMESTIC, AND EQUIPMENT WITH IN ROOM 202 IS NOT REQUIRED. REFERENCE ARCHITECTURE FOR EXACT REQUIREMENTS FOR ALTERNATE.

ALTERNATE #1
NEW SCIENCE ROOM SCOPE INDICATED. IF
ALTERNATE IS NOT MOVED FORWARD WITH
EXISTING SYSTEMS TO REMAIN AS-IS. REFERENCE
ARCHITECTURE FOR EXACT REQUIREMENTS FOR
ALTERNATE.
(NEW LAYOUT SHOWN)

- 1 WATER PIPE ROUTED UNDER SLAB TO SCIENCE LAB EQUIPMENT. LOCATE ROUGH-IN AT 9" AFF. PROVIDE BELOW SLAB PIPING TYPE K COPPER OR PEX. NO JOINTS BELOW SLAB. SLEEVE AND SEAL ALL SLAB PENETRATIONS.
- 2 COORDINATE WITH SCIENCE LAB EQUIPMENT VENDOR FOR HOOD REQUIREMENTS AND PROVIDE ANY ACID WASTE, ACID VENT, NATURAL GAS CONNECTION, OR DOMESTIC WATER CONNECTIONS REQUIRED.
- 3 PROVIDE VENTLESS REGULATOR SET TO PRESSURE REQUIRED BY SCIENCE FIXTURE VENDOR. COORDINATE WITH SCIENCE FIXTURE VENDOR FOR REQUIRED GAS & DOMESTIC CONTROLS. COORDINATE WITH ELECTRICAL FOR ANY ADDITIONAL POWER REQUIREMENTS.



PROJEC



REVISION

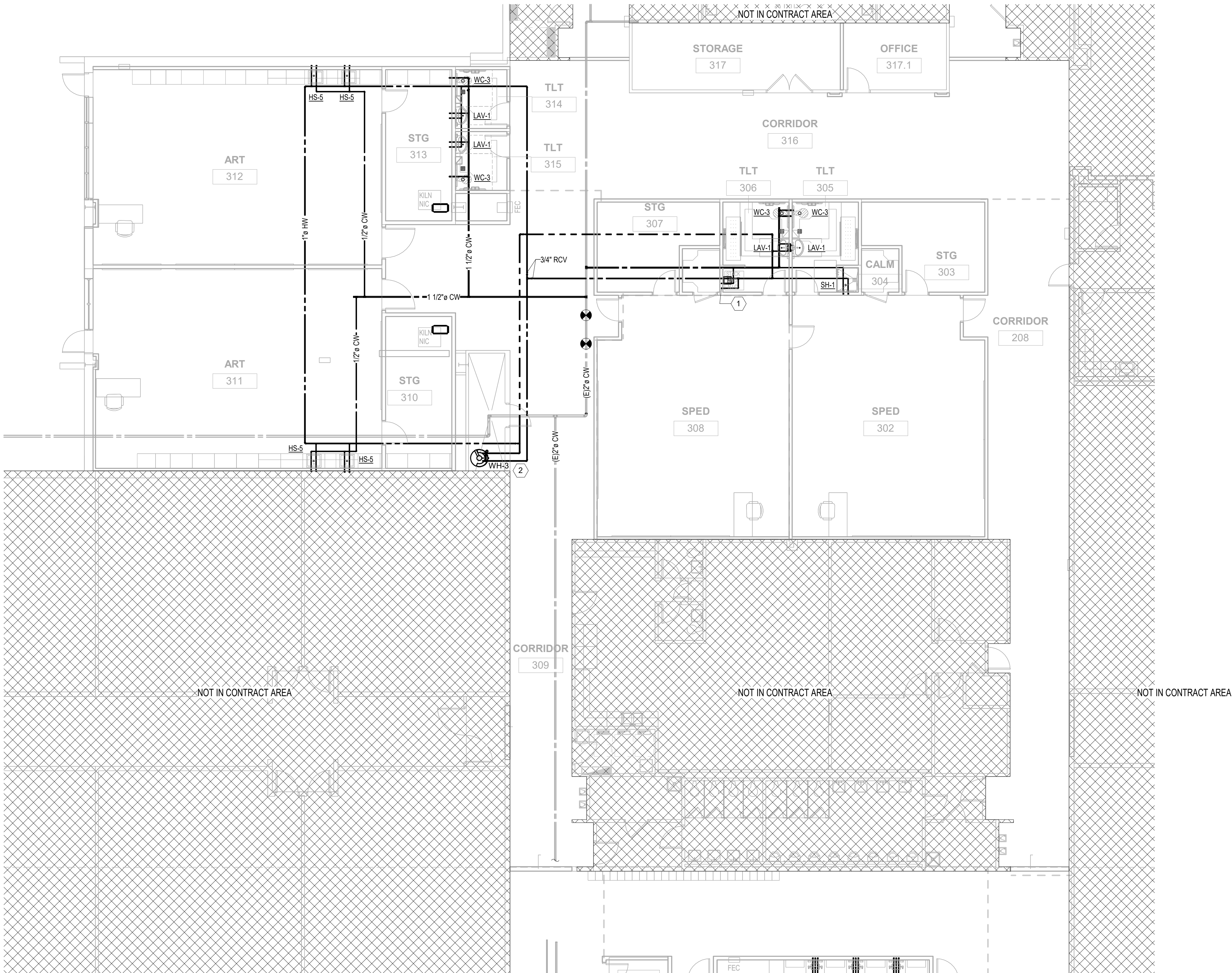
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2407 PROJECT N
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P112

SHEET TTT

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1 DOMESTIC PLUMBING PLAN - AREA 3
1/8" = 1'-0"

KEYNOTES

- 1 PROVIDE 1/2" CW AND 1/2" HOT WATER FOR WASHING MACHINE CONNECTION. PROVIDE WITH WATER HAMMERS.
- 2 EXTEND AND CONNECT 1" COLD WATER TO 3" COLD WATER RISER WITHIN CLOSET. IF RISER IS NOT IN SERVICEABLE CONDITION / NO LONGER EXISTING, EXTEND TO ADJACENT 2" CW IN CORRIDOR.

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architecture. interiors

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Owasso, Oklahoma 74055

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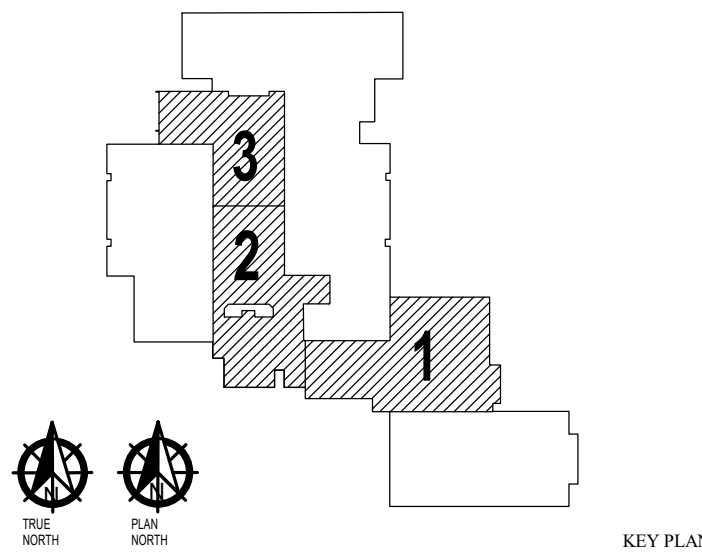


OWASSO
8th GRADE
ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

REVISIONS

11/25/2025

ISSUE DATE

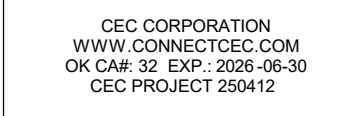
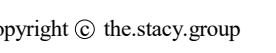
2001 PROJECT NO.
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EZ CHKD BY

DOMESTIC
PLUMBING PLAN -
AREA 3

P113

SHEET TITLE

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2025

OBJECT



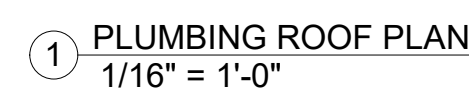
DISCUSSION

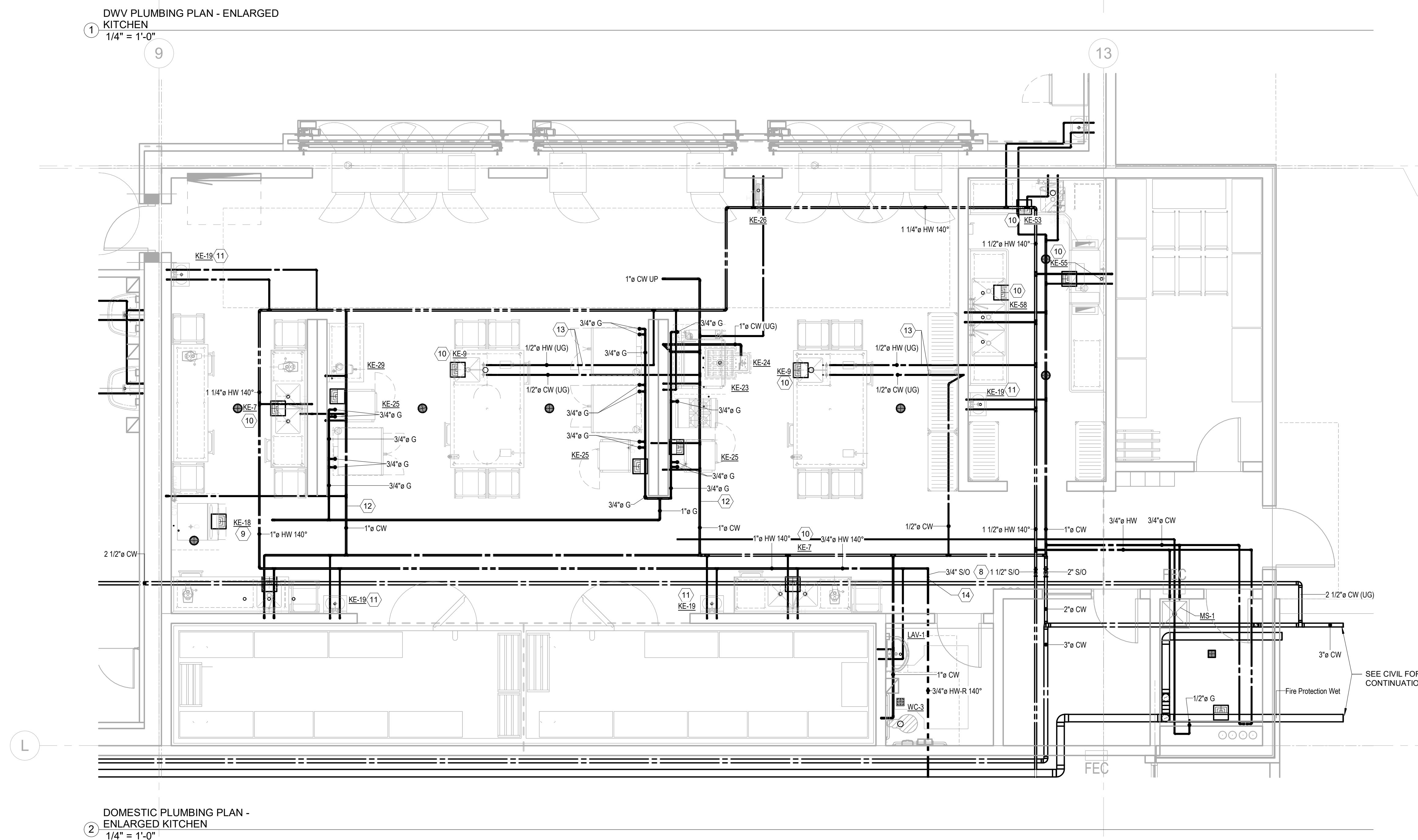
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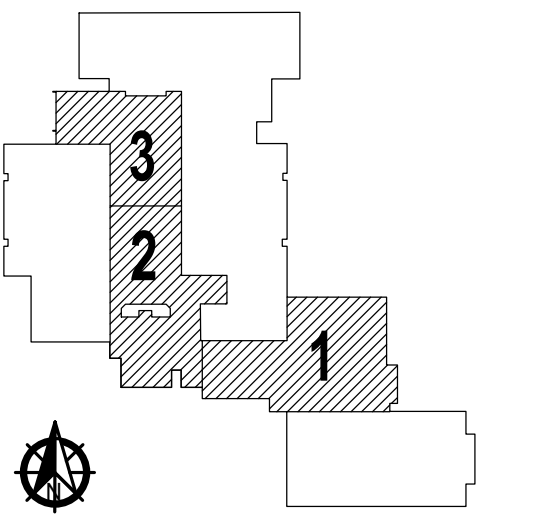
- ## KEYNOTES
- 1 PROVIDE ALL WASTE PIPE CAST IRON TO GREASE TRAP.
 - 2 PROVIDE FLOOR DRAIN/SLUICHS FLUSH WITH FLOOR. LOCATE NO CLOSER THAN 18" TO WALLS OR MOUNTINGS. COORDINATE FINAL FINISH OF CLEANOUT WITH ARCHITECT FOR PROPER SCHEDULING THROUGHOUT.
 - 3 COORDINATE FINAL LOCATION OF DRAIN RECEPTORS WITH FOOD SERVICE EQUIPMENT FURNISHER. COORDINATE WITH KITCHEN CONSULTANT DRAWINGS. TYPICAL THROUGHOUT.
 - 4 HANG AND PROVIDED BY FOOD SERVICE CONTRACTOR. INSTALL PLUMBING PROVIDED DRAIN TO GREASE WASTE SYSTEM.
 - 5 WASTE PIPING FROM KITCHEN EQUIPMENT TO DRAIN SINKS. COORDINATE WITH FOOD SERVICE CONTRACTOR MATERIALS AND SIZE. DO NOT COMBINE WASTE PIPING. PROVIDE INSTALLATION AS TO MEET VENT WARRANTY.
 - 6 SINK PROVIDED AND INSTALLED BY FOOD SERVICE CONTRACTOR. STRAINER PROVIDED BY FOOD SERVICE CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL WASTE PIPING FROM DRAIN CONNECTION TO LOOSER SIDE OF SINK. PROVIDE 1/2" AIR GAP.
 - 7 NO EXPOSURE VENTING AS POSSIBLE. IF EXPOSED, ALL VENT PIPING MUST BE CAST IRON. PAINT PER ARCHITECT.
 - 8 LOCATE SHUT-OFF VALVES FOR COMPLETE ACCESSIBILITY. PROVIDE 1/2" IN O.D. IN CEILING GRID FOR VALVES LOCATED ABOVE CEILING TYPICAL THROUGHOUT.
 - 9 ICE MACHINE AND WATER FILTER BY FOOD SERVICE. PROVIDE SHUT-OFF VALVE AND RUN OUT LINE TO DRAIN. PROVIDE SINK AND FIXTURE. INSTALL VALVE AND FILTER FOR COMPLETE ACCESS. VERIFY EXIST CONNECTION REQUIREMENTS AND LOCATION WITH FOOD SERVICE CONTRACTOR. INSTALL PIPING WITH IN-LINE BACKFLOW PREVENTER WHERE NOT INTEGRAL TO ICE MAKER.
 - 10 FOOD SERVICE EQUIPMENT AND FAUCETS PROVIDED AND INSTALLED BY FOOD SERVICE CONTRACTOR. PROVIDE SHUT-OFF VALVE AND RUN OUT LINE TO DRAIN. PROVIDE SHUT-OFF VALVES AND RUN OUT PIPING TO FOOD SERVICE FAUCETS. INSTALL PIPING WITH IN-LINE BACKFLOW PREVENTER WHERE NOT INTEGRAL TO FOOD SERVICE EQUIPMENT.
 - 11 HAND SINK PROVIDED BY FOOD SERVICE CONTRACTOR TO BE INSTALLED BY PLUMBING CONTRACTOR. PROVIDE THERMOSTATIC MIXING VALVE EQUIVALENT. INSTALL HOT AND COLD WATER PIPING AND SHUT-OFF VALVES. NOTE: USE A HOT WATER PIPING ROUTE-ROUGH AT 24" AFF.
 - 12 DROP WATER COLUMN IN WALL. ROUTE HORIZONTAL 12" AFF TO FLOOR. PROVIDE SINKS, FIXTURES, REFRIGERATORS AND ELECTRICS WITH FOOD SERVICE. ROUTE HORIZONTAL WATER BELOW ANY TYPICAL RECEPTABLES OR CONDUNTS. INSTALL PIPING WITH IN-LINE BACKFLOW PREVENTER WHERE NOT INTEGRAL TO FOOD SERVICE EQUIPMENT.
 - 13 WATER PIPE ROUTED UNDER SLAB TO FOOD SERVICE EQUIPMENT. LOCATE ROUGH-IN AT 9" AFF. PROVIDE BELOW SLAB PIPING TYPE "X". PROVIDE X-BLOCK JOINTS. PROVIDE 1/2" IN O.D. AND SEAL ALL SLAB PENETRATIONS. INSTALL PIPING WITH IN-LINE BACKFLOW PREVENTER WHERE NOT INTEGRAL TO FOOD SERVICE EQUIPMENT.
 - 14 PROVIDE CIRCUIT SETTING BALLBEAM VALVE IN HOT WATER RECIRCULATION PIPE.



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OBJECT



PLAN

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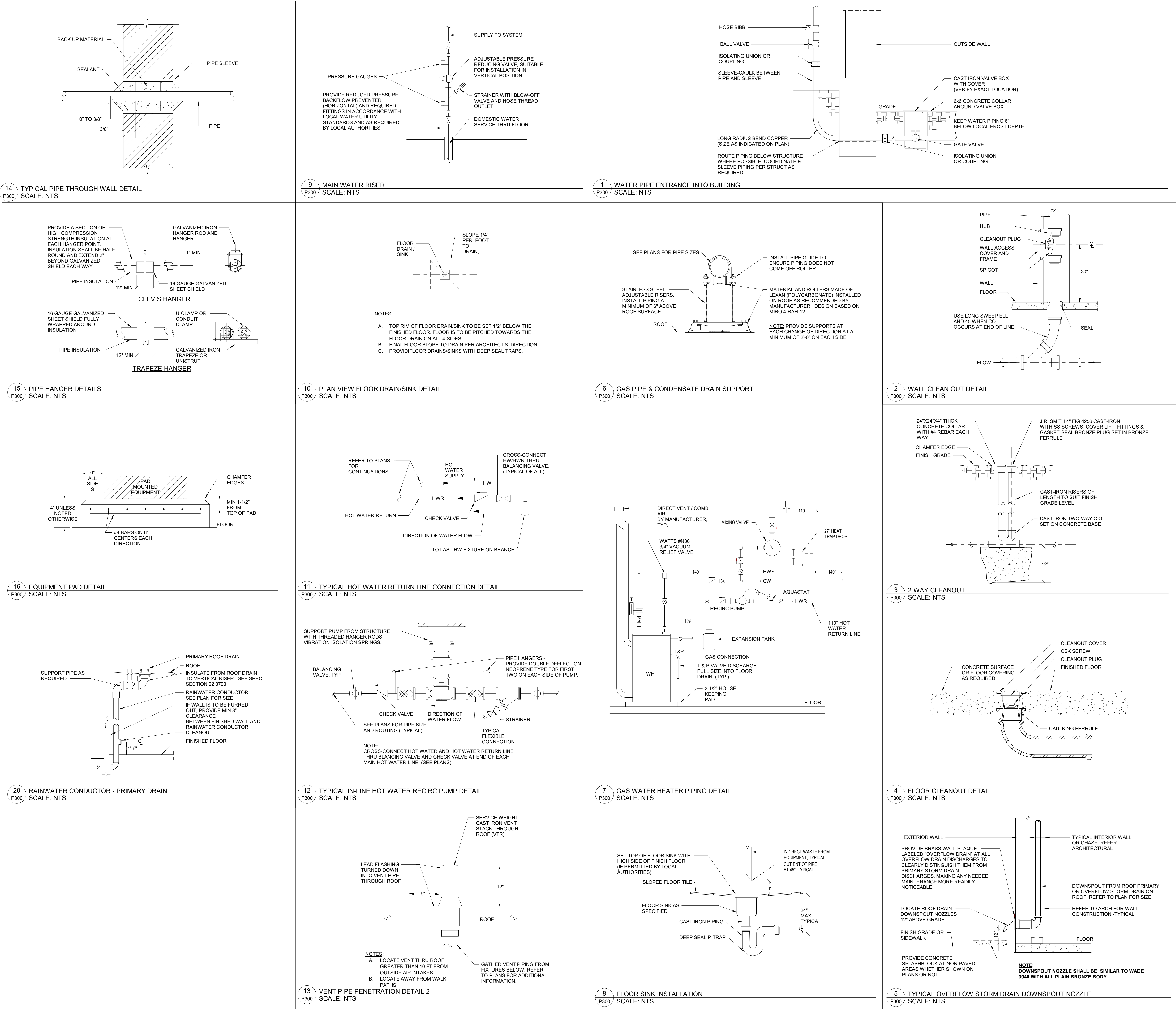
PLUMBING PLAN - ENLARGED KITCHEN

P200

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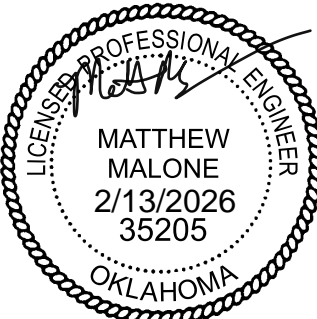
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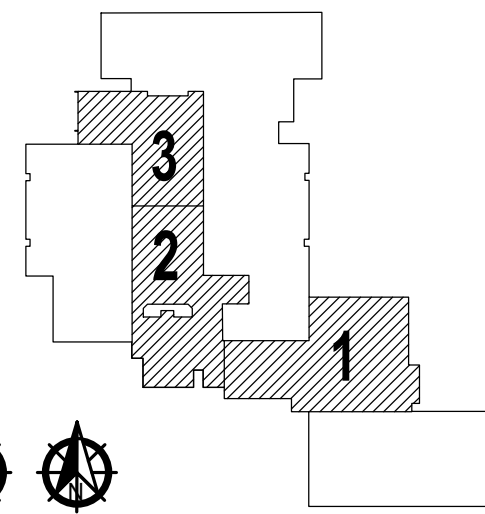


OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



TRAIL
NORTH

CLUB
NORTH

KEY PLAN

11/25/2025

ISSUE DATE

2007 PROJECT NO.
MDM 22

DRAWN BY
CMT/D BY

PLUMBING DETAILS

P300

SHEET TITLE

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WATER HEATER SCHEDULE												
MARK	MANUFACTURER	MODEL	DESCRIPTION	RECOVERY @ 100/60 F RISE (GPH)	STORAGE (GAL)	FUEL	COMBUSTION VENT SIZE	ELECTRICAL		INSTALLATION LOCATION	RECIRC. PUMP	Comments
								MOCP	VOLTAGE / PHASE			
WH-1	A.O. Smith	BTHL-199A	Commercial Gas Water Heaters	230 / 384	250	Natural Gas	4"	15A	120V / 1PH	PAD	Yes	1-3
WH-2	A.O. Smith	BTHL-199A	Commercial Gas Water Heaters	230 / 384	250	Natural Gas	4"	15A	120V / 1PH	PAD	Yes	1-3
WH-3	A.O. Smith	BTHL-150A	Commercial Gas Water Heaters	175 / 291	250	Natural Gas	4"	15A	120V / 1PH	PAD	Yes	1,2,4
NOTES:												
1. DIRECT VENT GAS WATER HEATER. INSTALL COMBUSTION AIR PIPES THRU ROOF WITH MFR. FURNISHED COMBUSTION AIR PIPE KIT. INCREASE COMBUSTION AIR PIPES SIZE AS REQ'D PER MFR. REQUIREMENTS. INSTALL PER MANUFACTURERS RECOMMENDATIONS.												
2. STORE HOT WATER TEMPERATURE AT 140F. IN WATER HEATER. SUPPLY TEMPERATURE OF 110F. WITH ASSE 1017 MIXING VALVE. PROVIDE HIGH-LOW 2-STAGE MIXING VALVE MODEL W.H. UNITS.												
3. PROVIDE WITH 16.5 GALLON EXPANSION TANK (AMTROL ST-30C-DD OR EQUAL), RECIRCULATION PUMP (B&G MODEL ECORCIRC 20-18 (7.2-122 WATTS) MOUNT PUMP LESS THAN 5 FEET AFF), AQUASTAT, SHUT OFF VALVES, CHECK VALVE, HEAT TRAPS, AND DRAIN PAN. PIPING DRAIN AND T&P SHALL BE ROUTED FULL SIZE TO NEAREST ACCEPTABLE DRAIN RECEPTOR. PROVIDE WITH MINIMUM 4" HOUSEKEEPING PAD.												
4. PROVIDE WITH 8.6 GALLON EXPANSION TANK (AMTROL ST-20C-DD OR EQUAL), RECIRCULATION PUMP (B&G MODEL ECORCIRC 20-18 (7.2-122 WATTS) MOUNT PUMP LESS THAN 5 FEET AFF), AQUASTAT, SHUT OFF VALVES, CHECK VALVE, HEAT TRAPS, AND DRAIN PAN. PIPING DRAIN AND T&P SHALL BE ROUTED FULL SIZE TO NEAREST ACCEPTABLE DRAIN RECEPTOR. PROVIDE WITH MINIMUM 4" HOUSEKEEPING PAD.												

Plumbing Fixture Schedule									
Type Mark	Type	Manufacturer	Model	Domestic		Waste (IN.)	Vent (IN.)	Description	
				Cold Water (IN.)	Hot Water (IN.)				
AWT-1	Acid Neutralization Tank	Orion	53"x36" Tank	0"	0"	4"	3"	Acid Neutralization Tank, Coordinate Final Elevations / Installation Of Inlet/Outlet And Vent. Inlet To Be Provided W/ Dip Tube. Tank To Be Provided With Extension As Required To Mount At Grade. Installation To Meet Manufacturer's Recommendations For Below Grade Mounting.	
EW-1	Emergency Shower and Eye / Face Wash	Haws	8309	3/4"	3/4"	0"	0"	Indirect Waste, Pedestal Eye Wash/ Shower Station, Provide Thermostatic Mixing Valve Model 9201E AXION Emergency Tempering Valve. Extend 1-1/4" Tepid water line to fixture, 20 gpm @ 70F.	
EWC-1	Electric Water Cooler - Dual Height	Elkay	EZOOTL8 WSLK	1/2"		2"	2"	Water Cooler - Bottle Filling Station with Bi-Level ADA Cooler, Non Filtered Refrigerated	
EWC-2	Electric Water Cooler - Dual Height	Elkay	EZSBWSS K	1/2"		2"	2"	Water Cooler - Bottle Filling Station, Non Filtered Refrigerated	
FD-1	Square Strainer - Nickel Bronze	Watts	FD-100-M			3"	2"	Epoxy Coated Cast Iron Floor Drain With Anchor Flange, Reversible Clamping Collar With Primary And Secondary Weepholes, Adjustable Square Heel Proof Nickle Bronze Strainer, And No Hub Outlet. Provide with Proset trap guard.	
FD-2	Round Strainer - Nickel Bronze	Watts	FD-100-A			3"	2"	Epoxy Coated Cast Iron Floor Drain With Anchor Flange, Reversible Clamping Collar With Primary And Secondary Weepholes, Adjustable Round Heel Proof Nickle Bronze Strainer, And No Hub Outlet. Provide with Proset trap guard.	
FD-3	Square Strainer - Nickel Bronze	Watts	FD-100-M			4"	2"	Epoxy Coated Cast Iron Floor Drain With Anchor Flange, Reversible Clamping Collar With Primary And Secondary Weepholes, Adjustable Square Heel Proof Nickle Bronze Strainer, And No Hub Outlet. Provide with Proset trap guard.	
FPHB	Hose Bibb, Non Freze	Woodford	67	3/4"	3/4"			Non-Freeze Type Wall Hydrant, With Double Check Backflow Preventer, Valve On The Inside Of The Wall, Spout With Backflow Preventer, And Loose Key Socket On The Outside Of The Wall. Make Arrangements With The General Contractor To Provide The Necessary Recess In The Wall, Where A Riser To A Wall Hydrant Occurs In An Outside Wall The Contractor Shall Insulate The Chase With 2" Styrofoam Insulation On All Sides Of The Chase, Except The Inside Wall Of The Chase. Provide Shutoff Valve In Accessible Location.	
FS-1	12" Square x 8" Deep - Stainless Grate	Watts	FS-790			3"	2"	12" Square X 8" Deep 14 Gauge Type 304 Stainless Steel Sanitary Floor Sink With Loose Set Cast Stainless Steel 3/4 Grate, Dome Bottom Strainer, And No Hub Outlet. Provide with Proset trap guard	
FS-2	12" Square x 8" Deep - Stainless Grate	Watts	FS-790			3"	2"	12" Square X 8" Deep 14 Gauge Type 304 Stainless Steel Sanitary Floor Sink With Loose Set Cast Stainless Steel 3/4 Grate, Dome Bottom Strainer, And No Hub Outlet. Provide with Proset trap guard. Provide with Sediment Bucket.	
GT-1	Grease Trap	Hausner	1,000			4"	3"	Gravity Grease Interceptor, Install per Manufacturer. Provide Traffic Rated Cover and Extension as Required.	
HS-1	Lab Sink	(by others)	(by others)	1/2"	1/2"	2"	2"	Lab Sink Provided By Science Equipment Vendor.	
HS-4	Lab Sink	(by others)	(by others)	1/2"	1/2"	2"	2"	Lab Sink Provided By Science Equipment Vendor.	
HS-5	Art Sink	Elkay	LRAD2219 55	1/2"	1/2"	2"	2"	Single Compartment, Ada Compliant, Self-Rimming, 18 Gauge. Elkay LKF413945RS Single Lever 45 deg. Swivel Faucet With High Arc Spout. One Elkay Model No. Lk35 Basket Strainer, P-Trap, Tailpieces, Supplies And Stops. Insulate Water And Waste To Meet Ada Requirements. Provide plaster trap at Mud Room 1212, Art Rooms 3101 & 3105. Coordinate plaster trap installation with bottom of cabinet to accommodate height of unit as req'd.	
HS-6	Lab Sink	(by others)	(by others)	1/2"	1/2"	2"	2"	Lab Sink Provided By Science Equipment Vendor.	
HS-7	Lab Sink	(by others)	(by others)	1/2"	1/2"	2"	2"	Lab Sink Provided By Science Equipment Vendor.	
HS-8	Lab Sink	(by others)	(by others)	1/2"	1/2"	2"	2"	Lab Sink Provided By Science Equipment Vendor.	
HS-9	Lab Sink	(by others)	(by others)	1/2"	1/2"	2"	2"	Lab Sink Provided By Science Equipment Vendor.	
LAV-1	Wall Hung Lavatory - ADA	Acorn	Ellipse ELPS1	1/2"	1/2"	2"	2"	Ellipse Stainless Steel, Wall-Mounted Trough Sink, With Accessory SW000-F70 Push Button Metering Faucet, One Station Provide Quarter Turn Water Supply Shut-Off Valves, Asse 1070 Mixing Valve, Hangers and Mounting Accessories, Truebro 2 Lav Guards, And P-Trap. Install According to Ada Standards.	
LAV-2	Wall Hung Lavatory - ADA - Sharable	Acorn	Ellipse ELPS2	1/2"	1/2"	2"	2"	Ellipse Stainless Steel, Wall-Mounted Trough Sink, Two Station, With Accessory SW000-F70 Push Button Metering Faucet, One Station Provide Quarter Turn Water Supply Shut-Off Valves, Asse 1070 Mixing Valve, Hangers and Mounting Accessories, Truebro 2 Lav Guards, And P-Trap. Install According to Ada Standards.	
MS-1	Janitor Sink	Fiat	MSB-2424	3/4"	3/4"	3"	2"	Service Basin With Cap On Two Sides, With Chrome Plated 3" Drain And Cast Iron Trap. T&S Model B-0665-BSTR Faucet, Pail Hook And Atmospheric Vacuum Breaker Spout. Furnish 5'-0" Length Of 5-Ply Garden Hose And Fittings.	
OB-1	Ice Maker Box	Sioux Chief	696-Rg101 0Mf	1/2"				Outlet Box	
ORD-1	Overflow, With External 2" High Water Dam	Wade	3000					Painted cast iron secondary roof drain with flange, combination membrane flashing clamp / gravel guard, medium insulated sump body, cast iron dome and bottom outlet. Provide with 2" dam	
RD-1	Roof Drain	Wade	3000					Painted cast iron primary roof drain with flange, combination membrane flashing clamp / gravel guard, medium insulated sump body, cast iron dome and bottom outlet	
RH-1	Roof Hydrant - Non-Freeze	Woodford	SRH-MS	1"				Freezeless Roof Hydrant, With ASSE 1052 Double Check Backflow Preventer, Valve On The Inside Of The Roof, Hose Connection With Backflow Preventer, And Lever Handle. All Exposed Parts Shall Be Painted. Make Arrangements With The General Contractor To Provide The Necessary Support On Roof. Provide Shutoff Valve In Accessible Location.	
SH-1	Shower - ADA	(by others)	By Others	1/2"	1/2"	2"	2"	Shower Stall - ADA. - Coordinate with architectural for requirements. Provide ADA compliant Zurn model Z7500-DV-HW - Two Way Diverter with ASSE 1016 Compliant Thermostatic / Pressure Balancing Combination Mixing Valve including 2 GPM flow control, Hand Shower System 24" mounting bar and 60" Flexible Metal Hose, and shower pan with drain.	
UR-1	Urinal - Standard	American Standard	Washbrook	3/4"		2"	2"	Wall Hung Urinal With Washout Action, Top Spud, Size 18" With Integral Extended Shields Supported By Through Going Bolts And C.P. Nuts. Manual Activated Flushometer.	
UR-2	Urinal - ADA	American Standard	Washbrook	3/4"		2"	2"	Wall Hung Urinal With Washout Action, Top Spud, Size 18" With Integral Extended Shields Supported By Through Going Bolts And C.P. Nuts. Manual Activated Flushometer. Install At Ada Compliant Height.	
WC-1	Water Closet - Flush Valve	American Standard	Afwall	1"		4"	2"	Elongated Wall Hung Water Closet, 1-1/2" Top Spud, With Church 295Ct 047 (Black) Elongated Open Front Seat. Sloan Manual Activated Flushometer.	
WC-2	Water Closet - Flush Valve - ADA	American Standard	Afwall	1"		4"	2"	Elongated Wall Hung Water Closet, 1-1/2" Top Spud, With Church 295Ct 047 (Black) Elongated Open Front Seat. Sloan Manual Activated Flushometer.	
WC-3	Water Closet - Flush Valve - ADA	American Standard	Madera	1"		4"	2"	Elongated Floor Mounted Water Closet, 1-1/2" Top Spud, With Church 295Ct 047 (Black) Elongated Open Front Seat. Sloan Manual Activated Flushometer.	
NOTES:									
1. EQUIPMENT DESIRED BY THE CONTRACTOR THAT DEVIATES FROM THIS SCHEDULE SHALL BE SUBJECTED TO ARCHITECT AND ENGINEER APPROVAL OF CONTRACTOR SUBMITTALS.									
2. CONTRACTOR TO VERIFY MOUNTING HEIGHT OF ALL FIXTURES W/ ARCHITECT PRIOR TO INSTALLATION.									
3. COORDINATE FINAL COLOR SELECTION WITH ARCHITECT PRIOR TO RELEASING ORDER.									
4. INSTALL S.O. VALVE IN ACCESSIBLE LOCATION. COORD. INSTALLATION OF ACCESS PANEL WITH G.C. AS REQ'D.									
5. INSTALL ASSE 1070 MIXING VALVE FOR ALL LAVATORIES AND HAND SINKS. SET SUPPLY TEMPERATURE TO 105 F.									
6. INSTALL ASSE 1016 MIXING VALVE TO SHOWER. SET SUPPLY TEMPERATURE TO 105 F.									

Kitchen Fixture Schedule									
Type Mark	Manufacturer	Model	CW	HW	FW	WASTE	VENT	INDIRECT WASTE	Description
KE-7	By Others	By Others	1/2"	1/2"		(2) 2"		YES	Commercial Prep Sink provided by kitchen vendor, installed by plumbing contractor.
KE-9	By Others	By Others	1/2"	1/2"		2"		YES	Commercial Prep Sink provided by kitchen vendor, installed by plumbing contractor.
KE-13	By Others	By Others			1/2"	1/2" & 3/4"		YES	Provided by kitchen vendor, installed by plumbing contractor.
KE-18	By Others	By Others			1/2"	1/2" & 3/4"		YES	Ice Maker provided by kitchen vendor, installed by plumbing contractor.
KE-19	By Others	By Others	1/2"	1/2"		2"	1-1/2"	NO	Hand Sink - Provide with thermostatic mixing valve equivalent to Watts LFUSG-B. Provide run-out piping and shut-off valves. Insulate all water pipes, locate rough-in at 24" AFF.
KE-23	By Others	By Others	1/2"	1/2"					Braising Pan - provided by kitchen vendor, connections by plumbing contractor.
KE-24	Eagle Group	Cool Trough - WTFT-2424-SG	1"			4"	2"	NO	Cool Trough - Locate per kitchen vendors drawings, install per manufacturer's recommendations.
KE-25	By Others	By Others	1/2"		0"	1"		YES	Steamers - provided by kitchen vendor, connections by plumbing contractor.
KE-26	By Others	By Others	1/2"	1/2"		2"	1-1/2"		Provided by kitchen vendor, installed by plumbing contractor.
KE-29	By Others	By Others			1/2"				Hot Water Dispenser - provided by kitchen vendor, connections by plumbing contractor.
KE-53	By Others	By Others	3/4"	3/4"		2"		YES	Commercial Drain Sink - provided by kitchen vendor, installed by plumbing contractor.
KE-55	By Others	By Others	1/2"	1/2"		2"		YES	Dishwashing Machine - provided by kitchen vendor, installed by plumbing contractor.
KE-58	By Others	By Others	3/4"	3/4"		(3) 2"		YES	Provided by kitchen vendor, installed by plumbing contractor.
NOTES:									
1. REFERENCE KITCHEN VENDOR DRAWINGS FOR EXACT LOCATIONS OF INSTALLED EQUIPMENT.									
2. EQUIPMENT DESIRED BY THE CONTRACTOR THAT DEVIATES FROM THIS SCHEDULE SHALL BE SUBJECT TO A&E SUBMITTAL REVIEW PROCESS.									
3. INSTALL S.O. VALVE IN ACCESSIBLE LOCATION. COORD. INSTALLATION OF ACCESS PANEL WITH G.C. AS REQ'D.									
4. INSTALL ASSE 1070 MIXING VALVE FOR ALL LAVATORIES AND HAND SINKS. SET SUPPLY TEMPERATURE TO 105 F.									

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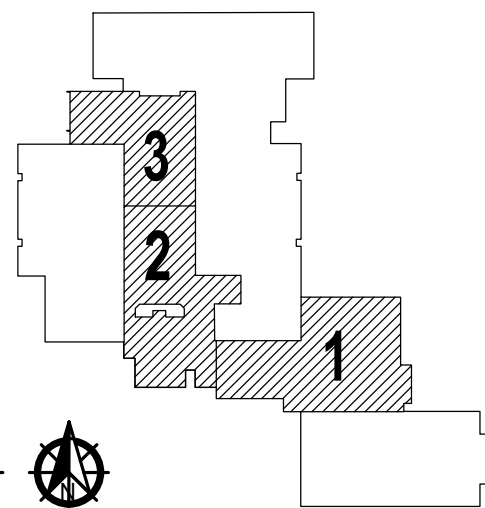


OWASSO
8th GRADE
ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

REVISIONS

11/25/2025

ISSUE DATE

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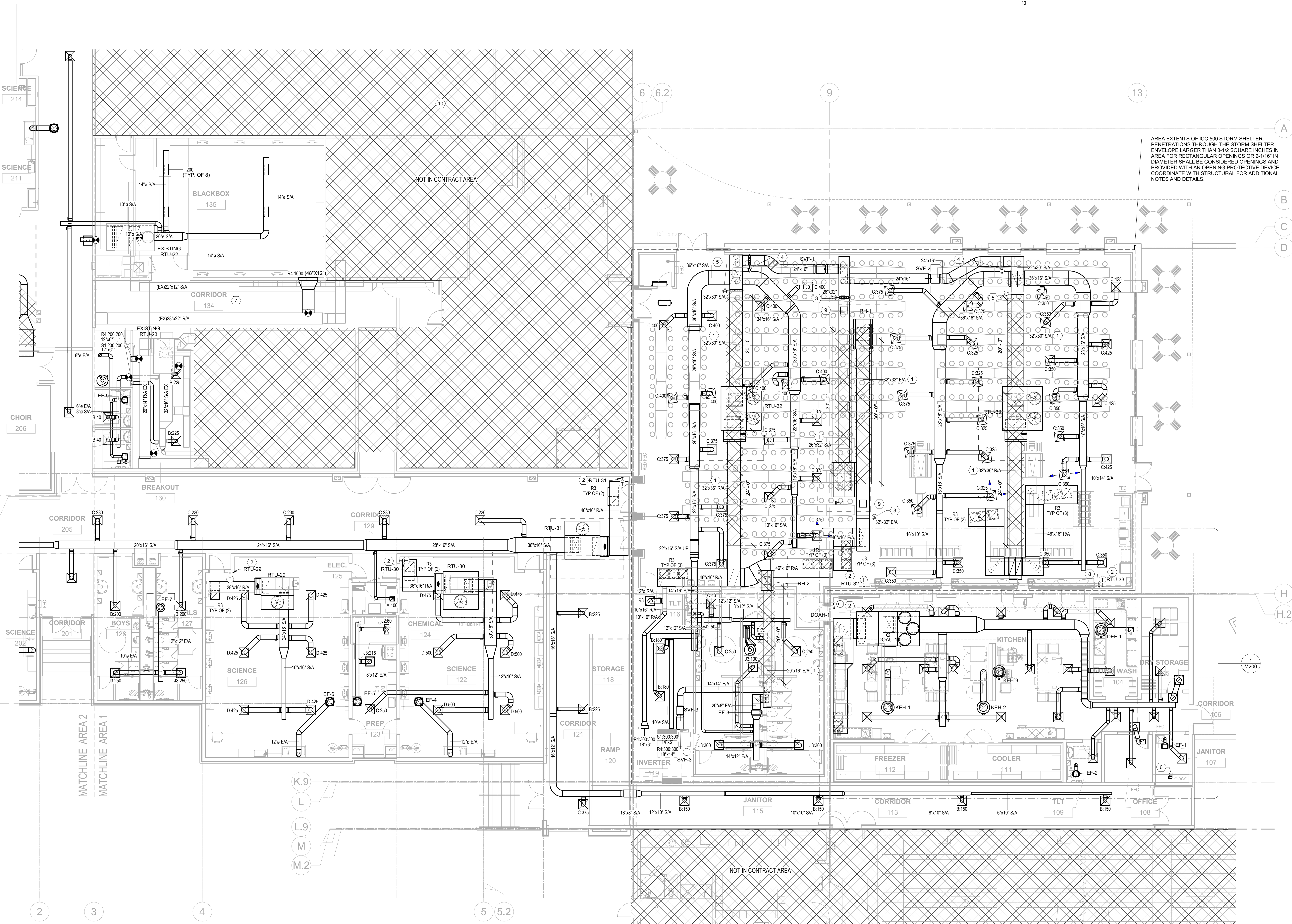
PLUMBING
SCHEDULES

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1 MECHANICAL PLAN - AREA 1
1/8" = 1'-0"

EMERGENCY VENTILATION ACTIVATION PROCEDURE:

ACTIVATION SWITCH WITH COVER AND SIGNAGE FOR EMERGENCY VENTILATION. SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS PUSHED:

1. RTU-32 AND RTU-33 TO DEENERGIZE
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY OPEN.
3. SVF-1 & SVF-2 TO ENERGIZE

SEQUENCE OF ACTIVATIONS EVENTS IF BUTTON IS TWISTED TO RESET:

1. SVF-1 & SVF-2 TO DEENERGIZE
2. MOTORIZED DAMPERS IN SUPPLY AND RELIEF HOOD TO FULLY CLOSE.
3. RTU-32 AND RTU-33 TO ENERGIZE PER THEIR SET POINTS

PROVIDE TIME DELAY BETWEEN ACTIONS TO ENSURE EACH ACTION IS FULLY EXECUTED PRIOR TO THE NEXT STARTING. REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WITH ARCHITECTURAL FOR EXACT MOUNTING LOCATION, COLOR, AND LETTERINGS OPTIONS.

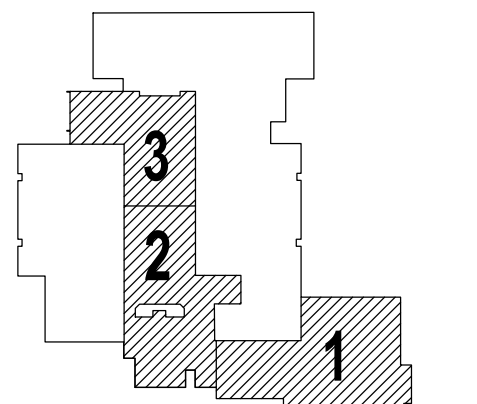
- KEYNOTES**
1. ROUTE THRU STRUCTURAL SHROUD. REFERENCE STRUCTURAL DRAWINGS FOR EXACT REQUIREMENTS.
 2. PROVIDE TEMPERATURE / HUMIDITY THERMOSTAT.
 3. MOTORIZED DAMPER (NORMAL CLOSED, POWER CLOSED, FAIL OPEN) AT DUCTWORK SERVING RELIEF AND SUPPLY O/A HOOD TO OPEN WHEN STORM SHELTER VENTILATION FAN IS IN OPERATION. COORDINATE FINAL LOCATION AND ROUTING WITH STRUCTURAL SHROUD TO ALLOW MAINTENANCE ACCESS.
 4. FOR EMERGENCY STORM SHELTER SUPPLY AIR DUCT RUNOUTS, PROVIDE BALANCING DAMPER AND MOTORIZED DAMPER (NORMALLY CLOSED, POWER CLOSED, FAIL OPEN). CFM AS INDICATED
 5. FOR EMERGENCY STORM SHELTER NORMAL OPERATION SUPPLY AIR DUCT, PROVIDE BACKDRAFT DAMPER TO PREVENT VENTILATION AIR FROM ENTERING RTU DURING EMERGENCY OPERATION.
 6. PROVIDE DRYER VENT ADAPTER BOX IN WALL WITH 6" SMOOTH INTERNALLY FINISHED ALUM. DRYER VENT DUCT W/ DRYER VENT DISCHARGE CAP
 7. PROVIDE NEW HVAC SUPPLY AND RETURN DIFFUSERS IN EXISTING HALLWAY ANYWHERE NEW ACT TILES ARE TO REPLACE EXISTING. REFERENCE ARCHITECTURE. PROVIDE EQUAL NECT SIZE AS EXISTING AND PROVIDE SUPPLY TYPE MATCHING TYPE A AND RETURN MATCHING TYPE R DIFFUSERS.
 8. EMERGENCY VENTILATION ACTIVATION SWITCH (SEE NOTE FOR ADDITIONAL INFORMATION)
 9. PROVIDE 18"x18" RUSKIN PRD18 (OR EQUAL) POSITIVE PRESSURE RELIEF DOOR UPSTREAM OF THE MOTORIZED DAMPER.
 - 10.

AREA EXTENTS OF ICC 500 STORM SHELTER. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS OR 2-1/16" IN DIAMETER SHALL BE CONSIDERED OPENINGS AND PROVIDED WITH AN OPENING PROTECTIVE DEVICE. COORDINATE WITH STRUCTURAL FOR ADDITIONAL NOTES AND DETAILS.



OWASSO 8th GRADE ADDITION

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OWASSO, OK
2025



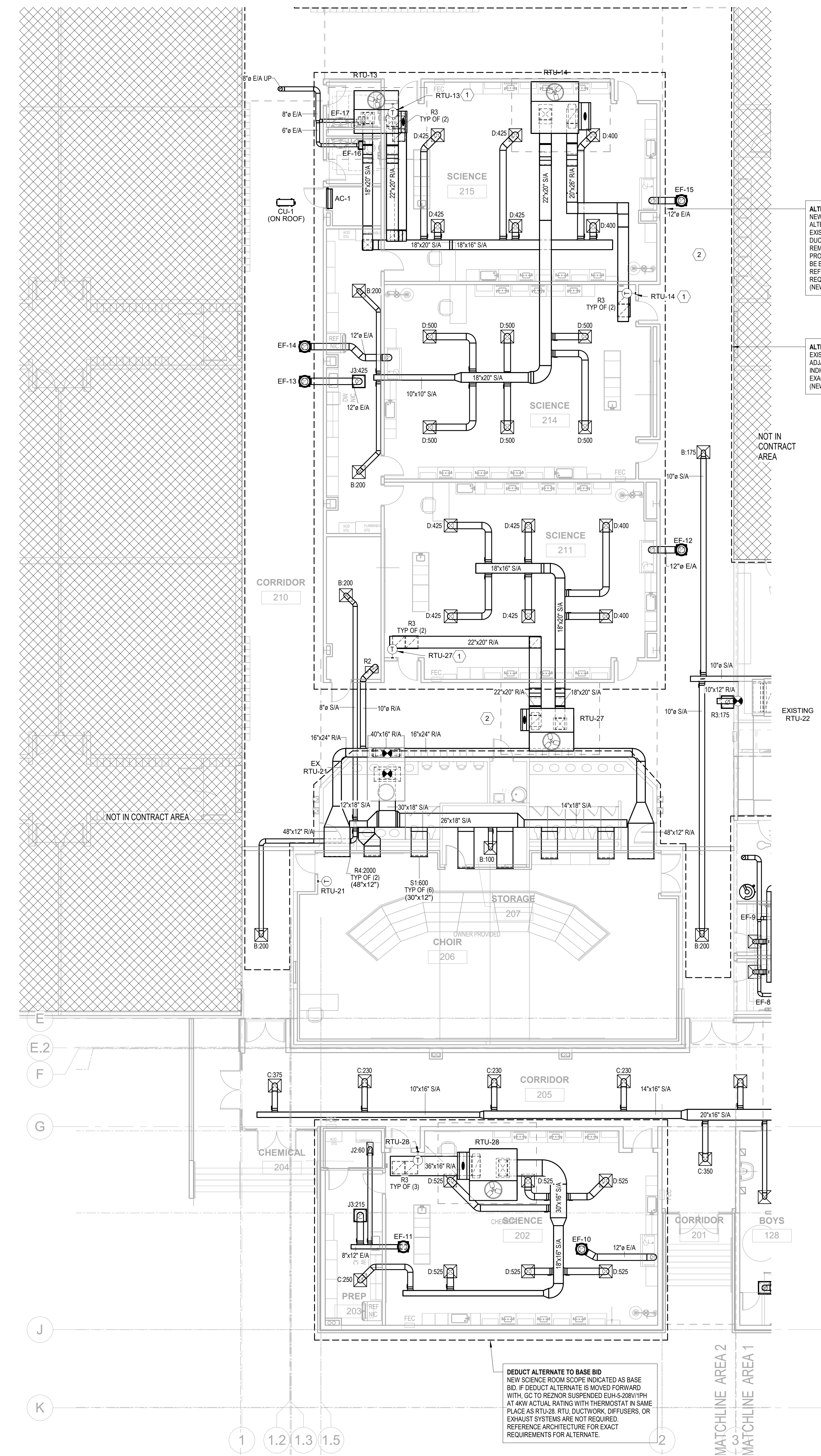
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MECHANICAL PLAN
- AREA 1

M101

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1/8" = 1'-0"



- KEYNOTES**
- 1 PROVIDE TEMPERATURE / HUMIDITY THERMOSTAT.
 - 2 PROVIDE NEW HVAC SUPPLY AND RETURN DIFFUSERS IN EXISTING HALLWAY ANYWHERE NEW ACT TILES ARE TO REPLACE EXISTING. REFERENCE ARCHITECTURE. PROVIDE EQUAL NEGT SIZE AS EXISTING AND PROVIDE SUPPLY TYPE MATCHING TYPE A AND RETURN MATCHING TYPE R DIFFUSERS.

ALTERNATE #1
NEW SCIENCE ROOM SCOPE INDICATED. IF ALTERNATE IS NOT MOVED FORWARD WITH EXISTING SCIENCE ROOMS TO REMAIN. BRANCH DUCTWORK FROM EXISTING RTU-21 INTO REMODELED SCIENCE ROOMS NOT TO BE PROVIDED. CFM INDICATED IN REMOVED BRANCH TO BE EVENLY SPLIT AMONG CURRENT HVAC GRILLES. REFERENCE ARCHITECTURE FOR EXACT REQUIREMENTS FOR ALTERNATE. (NEW LAYOUT SHOWN)

ALTERNATE #2
EXISTING SYSTEMS SERVING CORRIDORS AND ADJACENT ROOMS TO BE REPLACED AS INDICATED. REFERENCE ARCHITECTURE FOR EXACT REQUIREMENTS FOR ALTERNATE. (NEW LAYOUT SHOWN)

NOT IN CONTRACT AREA

EXISTING RTU-22

NOT IN CONTRACT AREA

1 MECHANICAL PLAN - AREA 2
1/8" = 1'-0"

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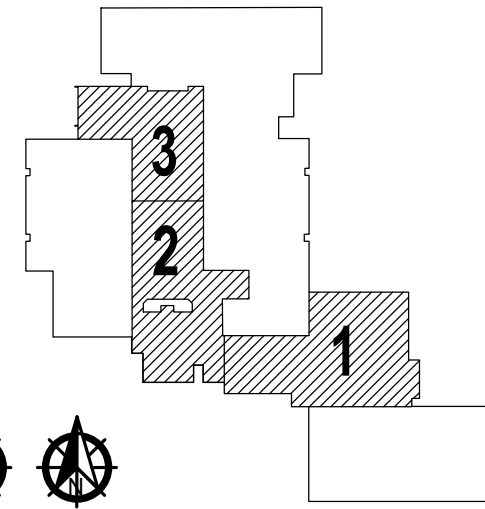


OWASSO 8th GRADE ADDITION

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OWASSO, OK
2025

PROJECT



KEY PLAN

REVISIONS

11/25/2025

ISSUE DATE

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MDM
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2007 PROJECT NO
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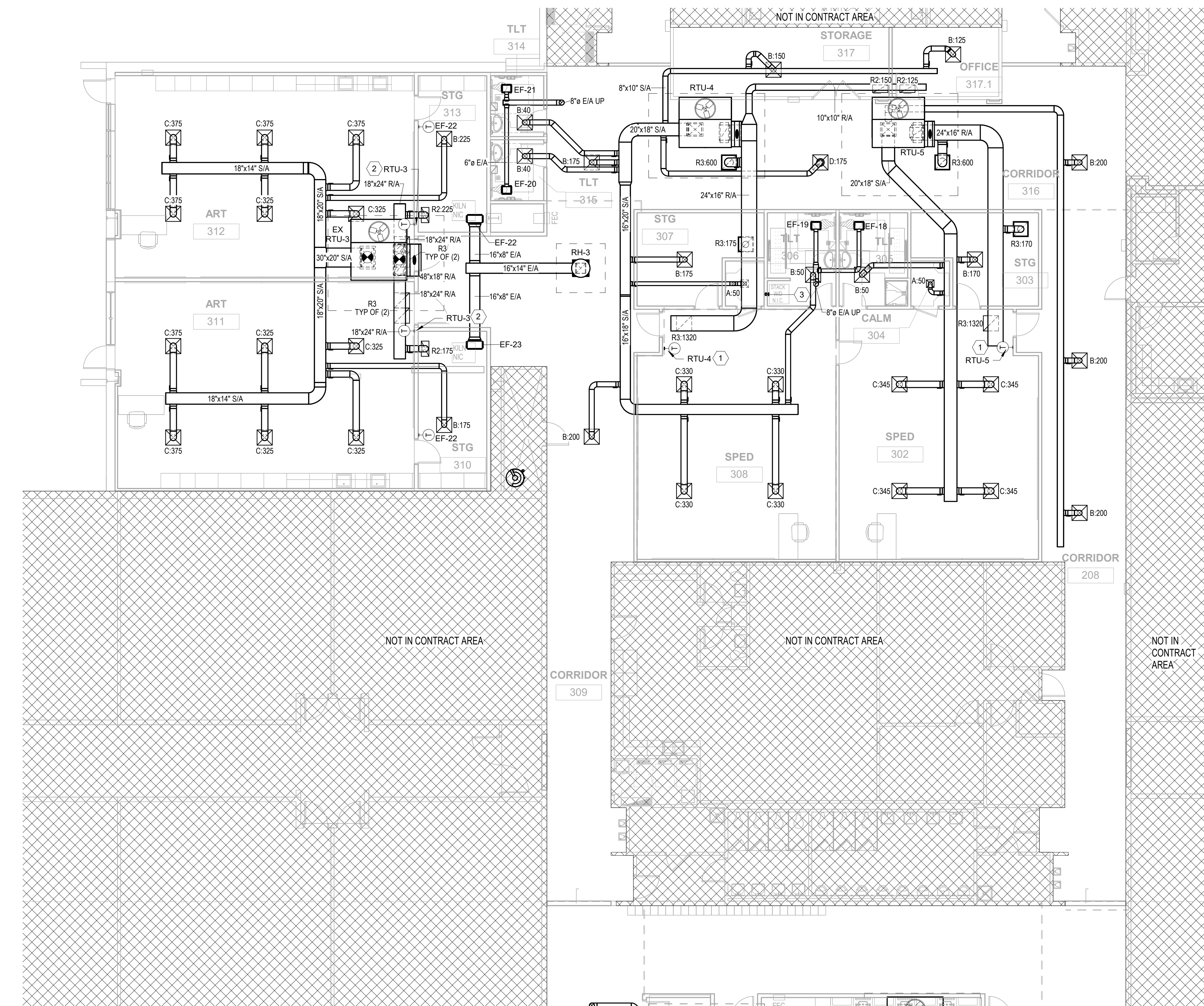
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MECHANICAL PLAN - AREA 2

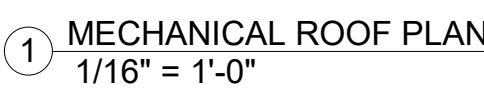
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SHEET TITLE

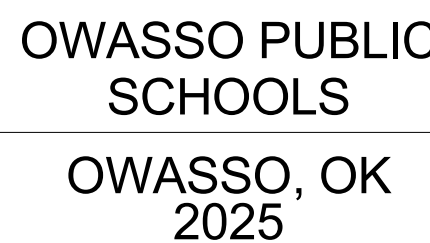
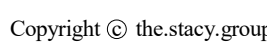
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ALTERNATE #1
 PROVIDE NEW RTU-13, 14, & 27 AND FULL
 SYSTEMS ASSOCIATED. EF-12-15, AND CU-1/
 AC-1. IF ALTERNATE IS NOT MOVED FORWARD
 WITH, EXISTING RTUS / EXHAUST FANS
 SERVING SCIENCE ROOMS TO REMAIN.
 REFERENCE ARCHITECTURE FOR EXACT
 REQUIREMENTS FOR ALTERNATE.
 (NEW LAYOUT SHOWN)



PROJEC



REVISION

ISSUE DATE

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MDM DRAWN B
E7 CHK'D B

SHEET IVT

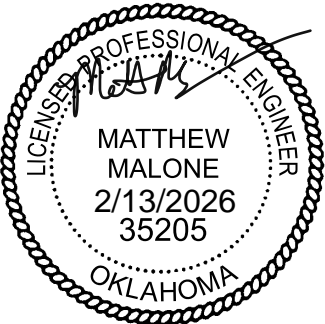
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M150

3'-0" 0' 3" 6" 9" 12" 15" 18" 21" 24" 27" 30" 33" 36" 39" 42" 45" 48" 51" 54" 57" 60" 63" 66" 69" 72" 75" 78" 81" 84" 87" 90" 93" 96" 99" 102" 105" 108" 111" 114" 117" 120" 123" 126" 129" 132" 135" 138" 141" 144" 147" 150" 153" 156" 159" 162" 165" 168" 171" 174" 177" 180" 183" 186" 189" 192" 195" 198" 201" 204" 207" 210" 213" 216" 219" 222" 225" 228" 231" 234" 237" 240" 243" 246" 249" 252" 255" 258" 261" 264" 267" 270" 273" 276" 279" 282" 285" 288" 291" 294" 297" 300" 303" 306" 309" 312" 315" 318" 321" 324" 327" 330" 333" 336" 339" 342" 345" 348" 351" 354" 357" 360" 363" 366" 369" 372" 375" 378" 381" 384" 387" 390" 393" 396" 399" 402" 405" 408" 411" 414" 417" 420" 423" 426" 429" 432" 435" 438" 441" 444" 447" 450" 453" 456" 459" 462" 465" 468" 471" 474" 477" 480" 483" 486" 489" 492" 495" 498" 501" 504" 507" 510" 513" 516" 519" 522" 525" 528" 531" 534" 537" 540" 543" 546" 549" 552" 555" 558" 561" 564" 567" 570" 573" 576" 579" 582" 585" 588" 591" 594" 597" 600" 603" 606" 609" 612" 615" 618" 621" 624" 627" 630" 633" 636" 639" 642" 645" 648" 651" 654" 657" 660" 663" 666" 669" 672" 675" 678" 681" 684" 687" 690" 693" 696" 699" 702" 705" 708" 711" 714" 717" 720" 723" 726" 729" 732" 735" 738" 741" 744" 747" 750" 753" 756" 759" 762" 765" 768" 771" 774" 777" 780" 783" 786" 789" 792" 795" 798" 801" 804" 807" 810" 813" 816" 819" 822" 825" 828" 831" 834" 837" 840" 843" 846" 849" 852" 855" 858" 861" 864" 867" 870" 873" 876" 879" 882" 885" 888" 891" 894" 897" 900" 903" 906" 909" 912" 915" 918" 921" 924" 927" 930" 933" 936" 939" 942" 945" 948" 951" 954" 957" 960" 963" 966" 969" 972" 975" 978" 981" 984" 987" 990" 993" 996" 999

KEYNOTES

1. PROVIDE TEMPERATURE / HUMIDITY THERMOSTAT.
2. PROVIDE FULL STAINLESS DUCTWORK FOR DISHWASHER EXHAUST SYSTEM.
3. PROVIDE DRYER VENT ADAPTER BOX IN WALL WITH 6" SMOOTH INTERNALLY FINISHED ALUM. DRYER VENT DUCT W/ DRYER VENT DISCHARGE CAP.



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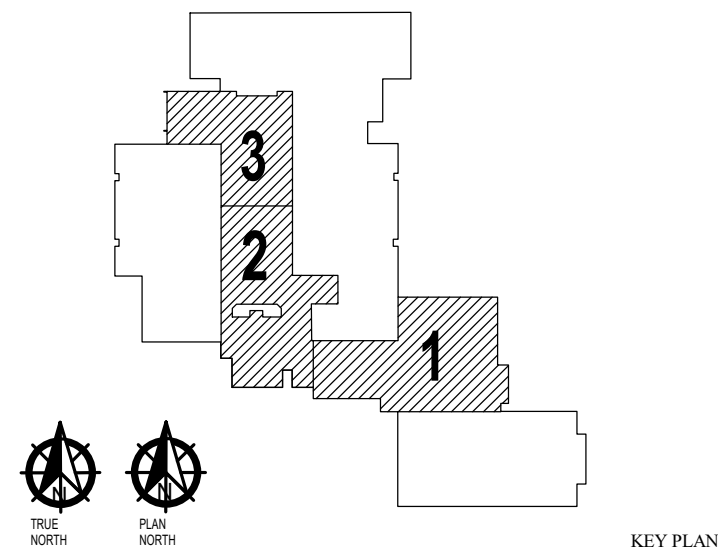


OWASSO
8th GRADE
ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

REVISIONS

11/25/2025

ISSUE DATE

2007 PROJECT NO.
MDM
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DRAWN BY
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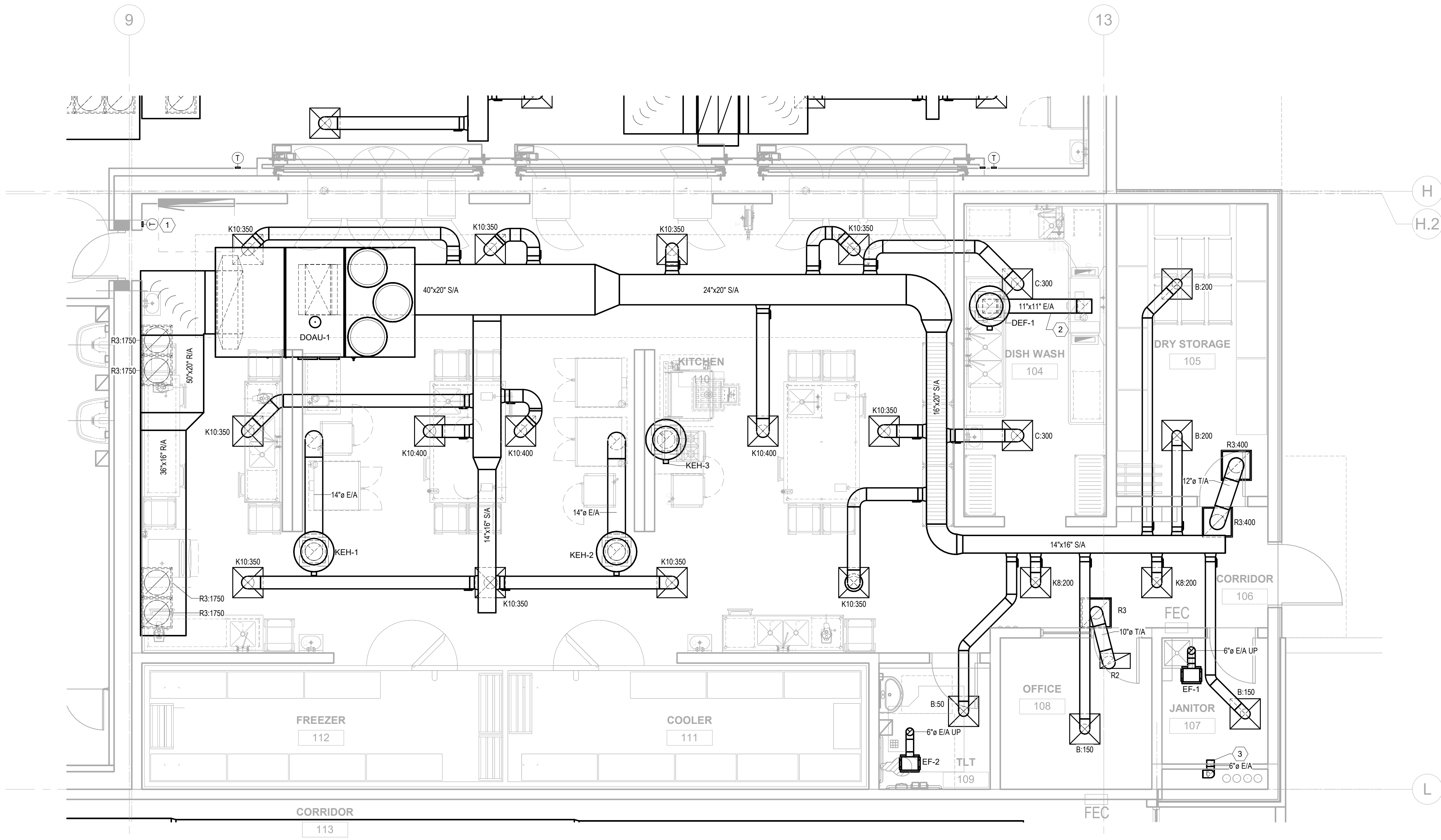
CHECKED BY

MECHANICAL PLAN
- ENLARGED
KITCHEN

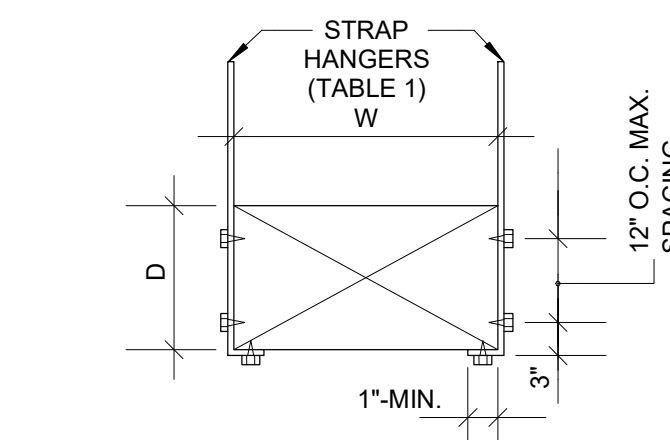
M200

SHEET TITLE

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1 MECHANICAL PLAN - KITCHEN
1/4" = 1'-0"



- NOTES:
- A. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.
- B. PROVIDE HIGH DENSITY INSERT AT TRAPEZE FOR INSULATED DUCTS.

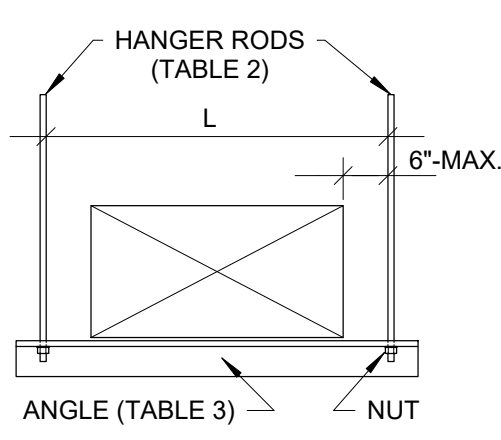
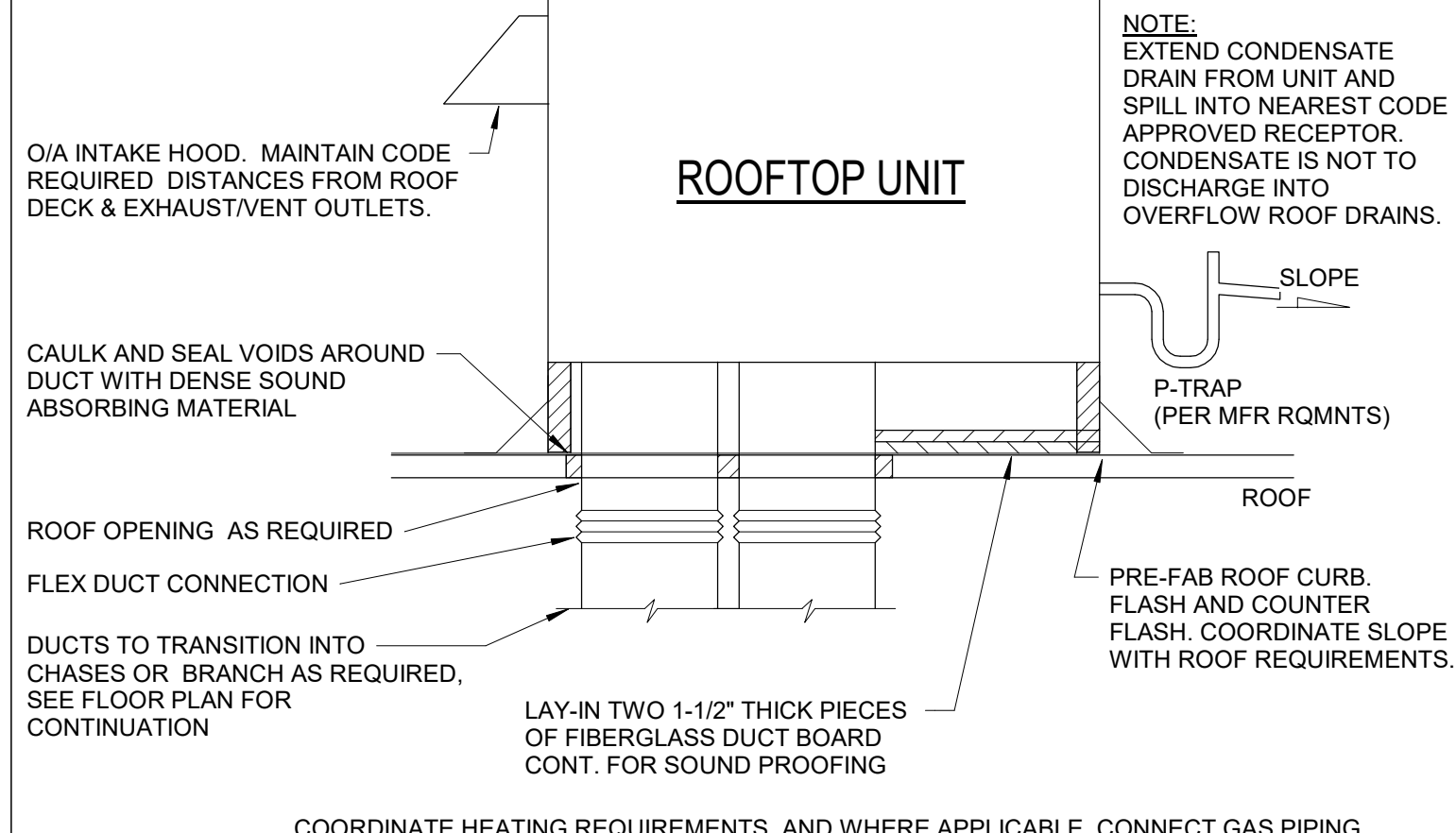
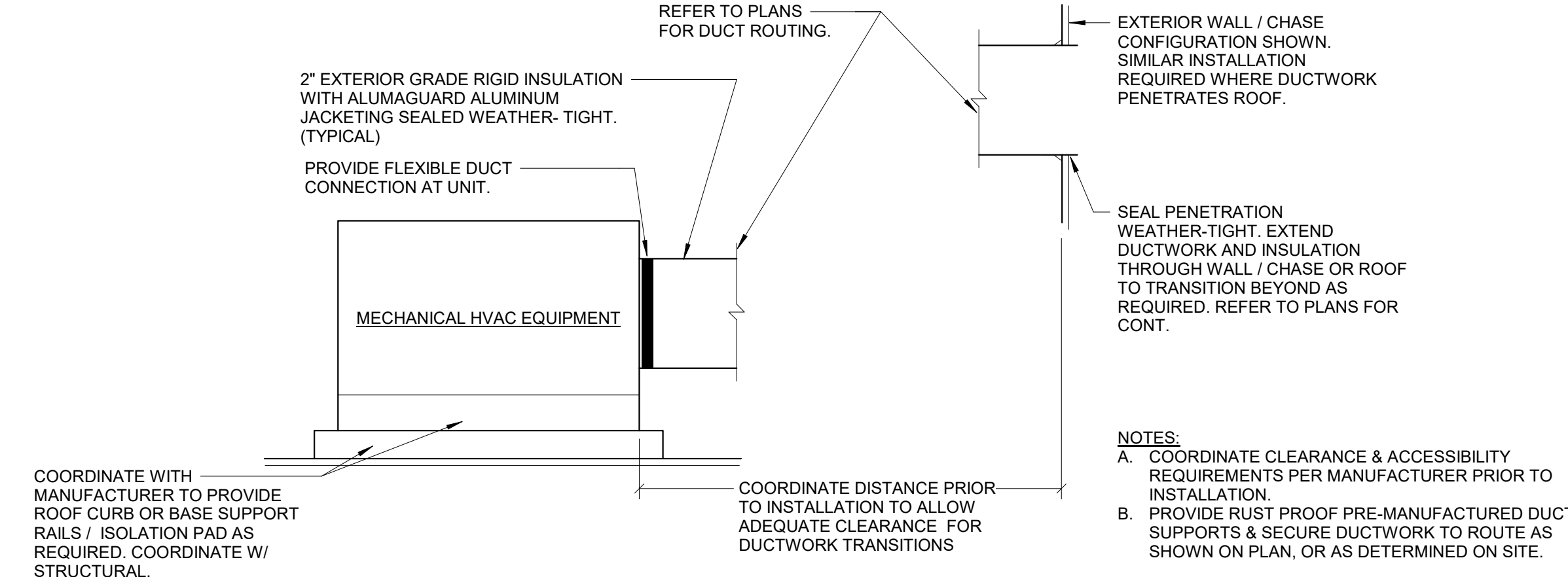


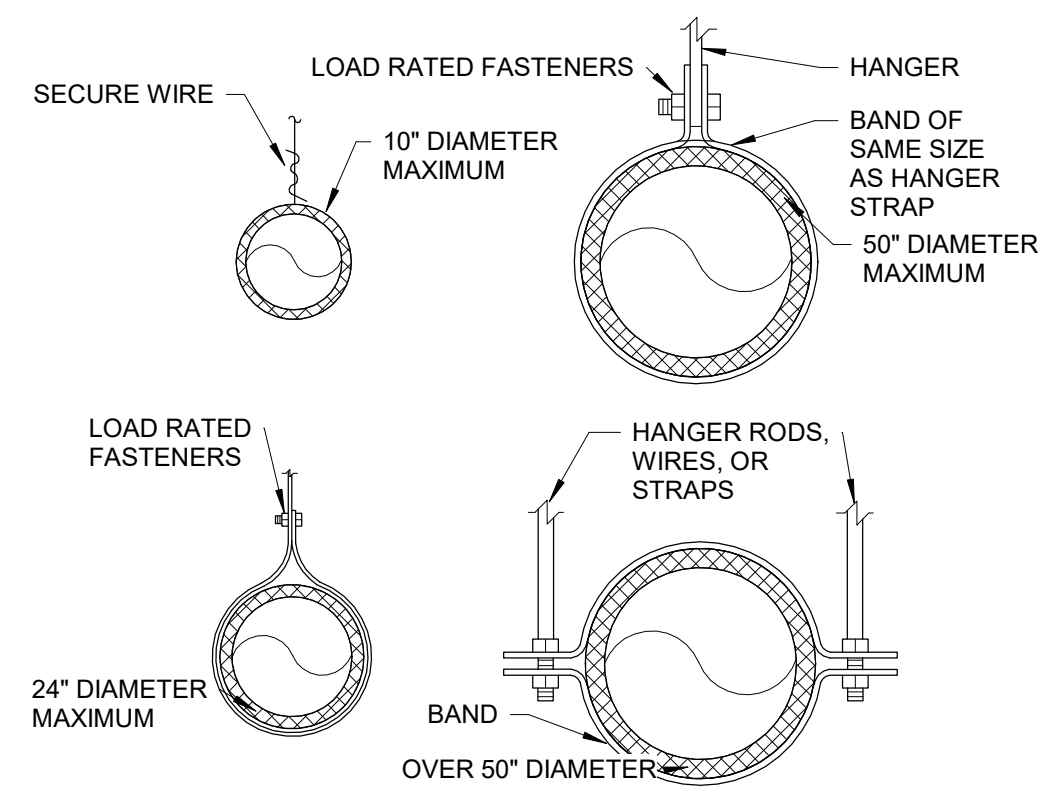
TABLE 1 STRAP HANGERS (PAIR) SPACED			
W + D MAX.	10\"	8\"	5\"
	1\" X 22 GA.	1\" X 22 GA.	1\" X 22 GA.
72"			
96"		1\" X 20 GA.	1\" X 22 GA.
120"		1\" X 18 GA.	1\" X 22 GA.
168"			1\" X 18 GA.
192"			1\" X 16 GA.

TABLE 2 ALLOWABLE HANGER LOAD, MAX.			
STRAPS	LBS.	RODS	LBS.
2 - 1\" X 22 GA.	520	2 - 1/4\" DIA.	540
2 - 1\" X 20 GA.	640	2 - 3/8\" DIA.	1360
2 - 1\" X 18 GA.	840	2 - 1/2\" DIA.	2500
2 - 1\" X 16 GA.	1400	2 - 5/8\" DIA.	4000
		2 - 3/4\" DIA.	6000

TABLE 3 TRAPEZE ANGLE LOAD, MAX.			
L	2\"x2\"x1/4\"	2 1/2\"x2 1/2\"x1/4\"	
36"	1200 LBS	1940 LBS	
48"	1160 LBS	1900 LBS	
60"	1060 LBS	1800 LBS	
72"	900 LBS	1640 LBS	
84"	660 LBS	1400 LBS	



16 RECTANGULAR DUCT HANGERS
SCALE: NTS



MINIMUM HANGER SIZES FOR ROUND DUCT				
DIAMETER	MAXIMUM SPACING	WIRE DIAMETER	ROD	STRAP
10\" DN	12"	(1) 12 GA.	1/4"	1\"x22 GA.
11-18"	12"	(2) 12 GA. OR (1) 8 GA.	1/4"	1\"x22 GA.
19-24"	12"	(2) 10 GA.	1/4"	1\"x22 GA.
25-36"	12"	(2) 8 GA.	3/8"	1\"x20 GA.
37-50"	12"	---	(2) 3/8"	(2) 1\"x20 GA.
51-60"	12"	---	(2) 3/8"	(2) 1\"x18 GA.
61-84"	12"	---	(2) 3/8"	(2) 1\"x16 GA.

NOTES:

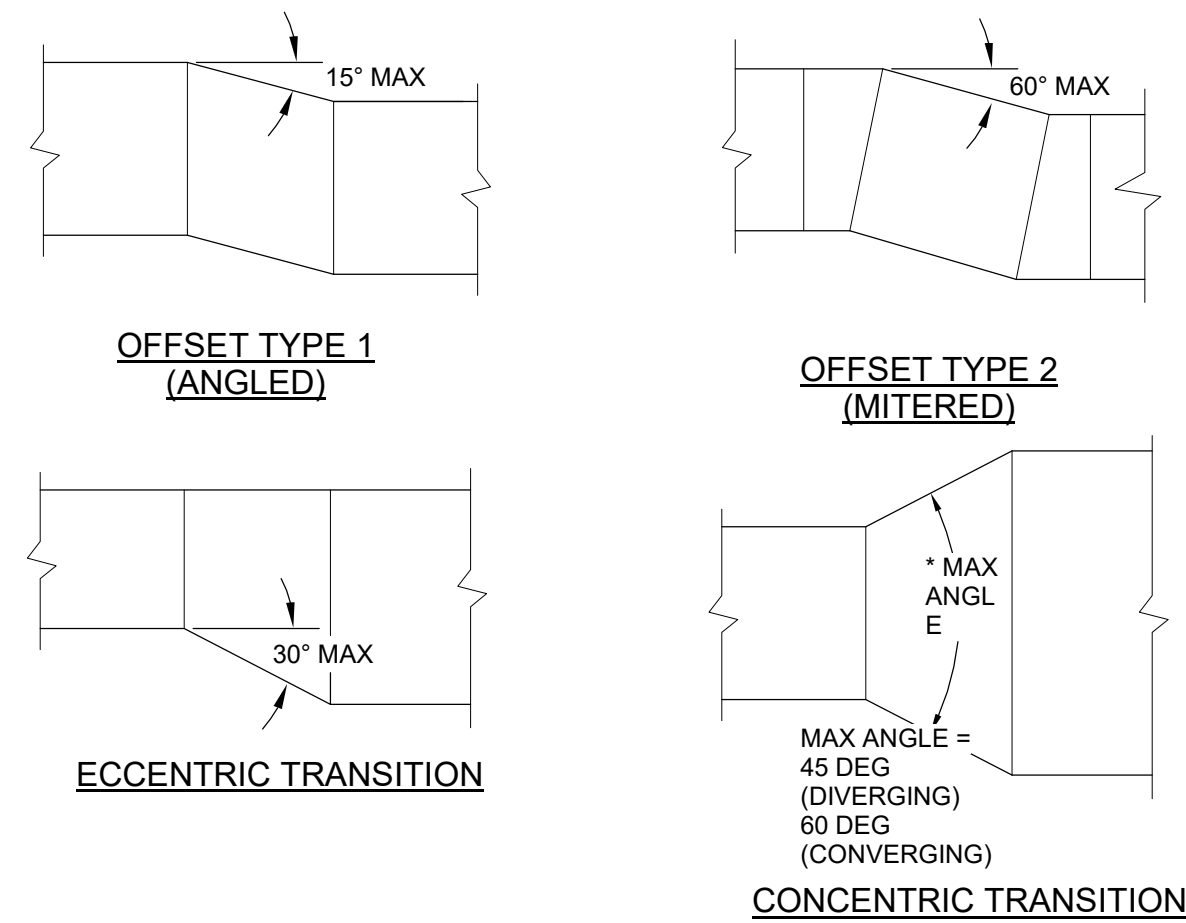
1. STRAPS ARE GALVANIZED STEEL. RODS ARE UNCOATED OR GALVANIZED STEEL. WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL ARE ALTERNATES.

2. TABULATED DATE FROM 1985 SMACNA STANDARDS ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

3. HANGERS MUST NOT DEFORM DUCT SHAPE.

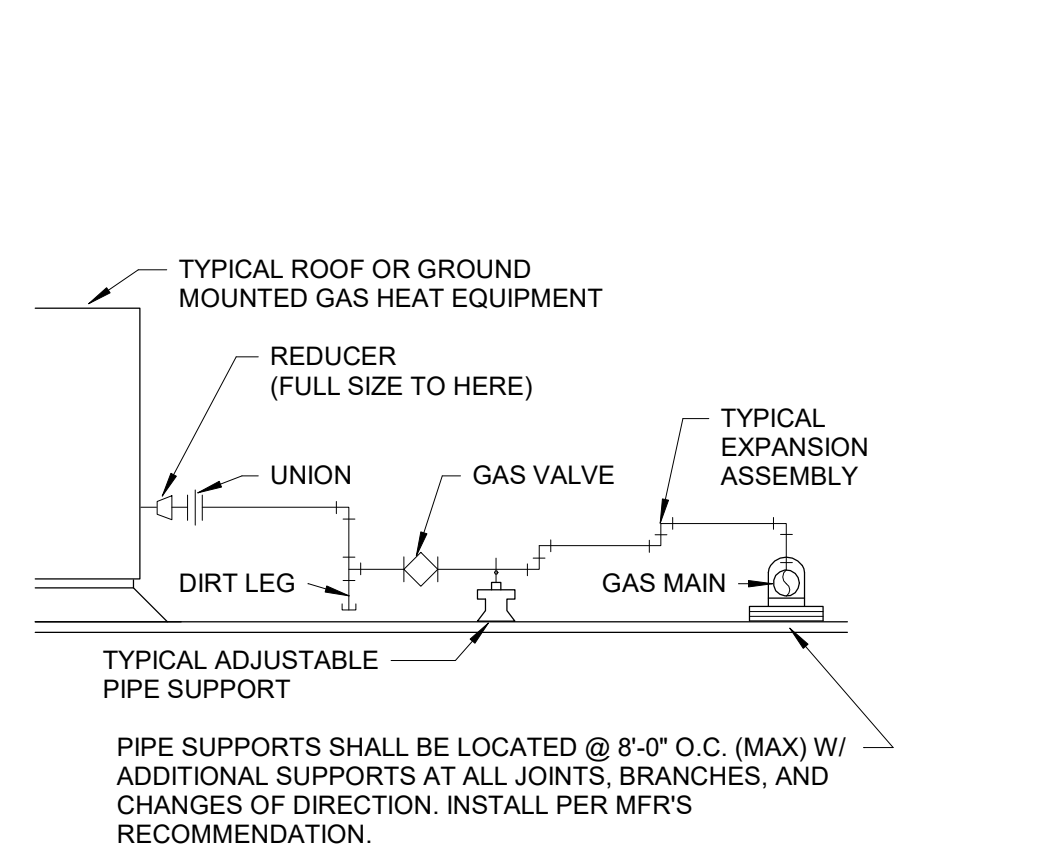
17 ROUND DUCT HANGERS
SCALE: NTS

7 TYPICAL HVAC EQUIPMENT WITH EXTERIOR DUCTWORK
SCALE: NTS

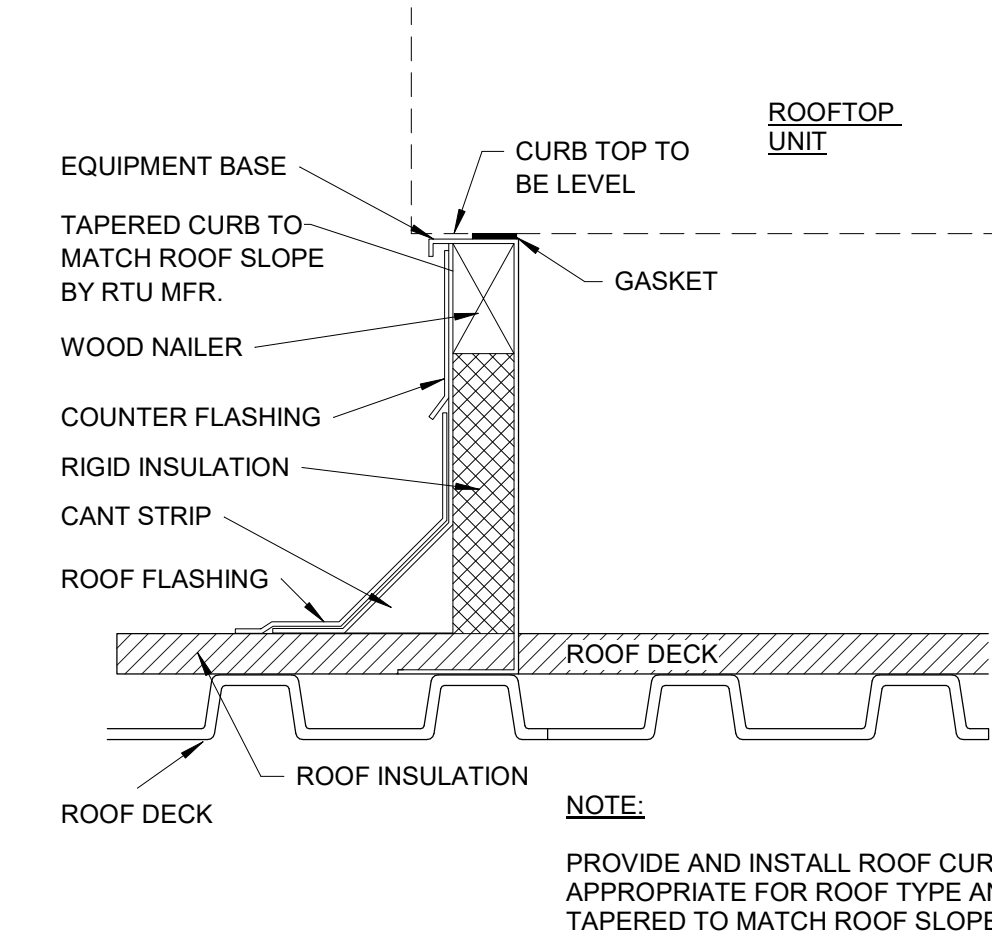


12 MISCELLANEOUS DUCTWORK TRANSITION DETAILS
SCALE: NTS

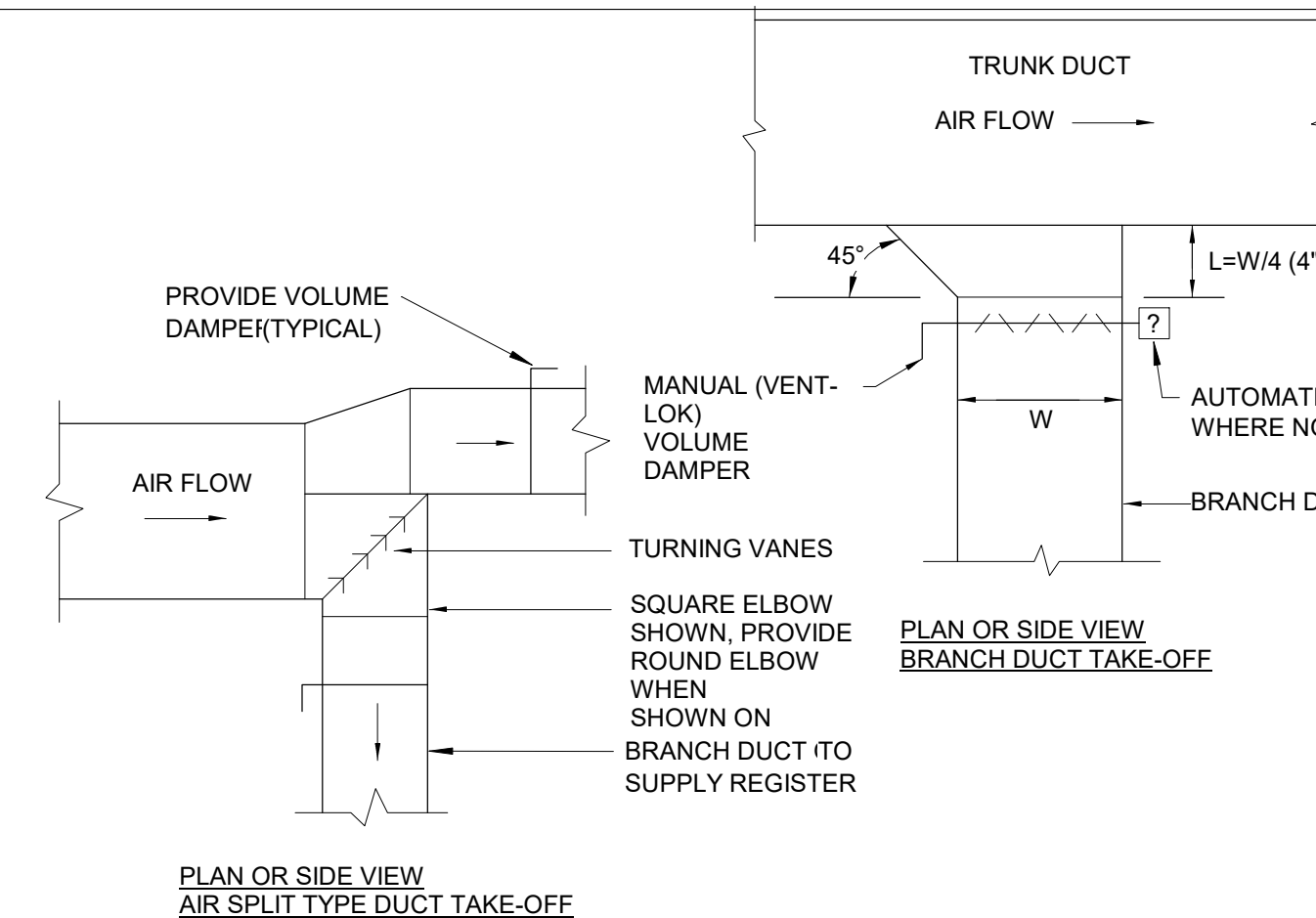
8 TYPICAL GAS PIPING CONNECTION DIAGRAM
SCALE: NTS



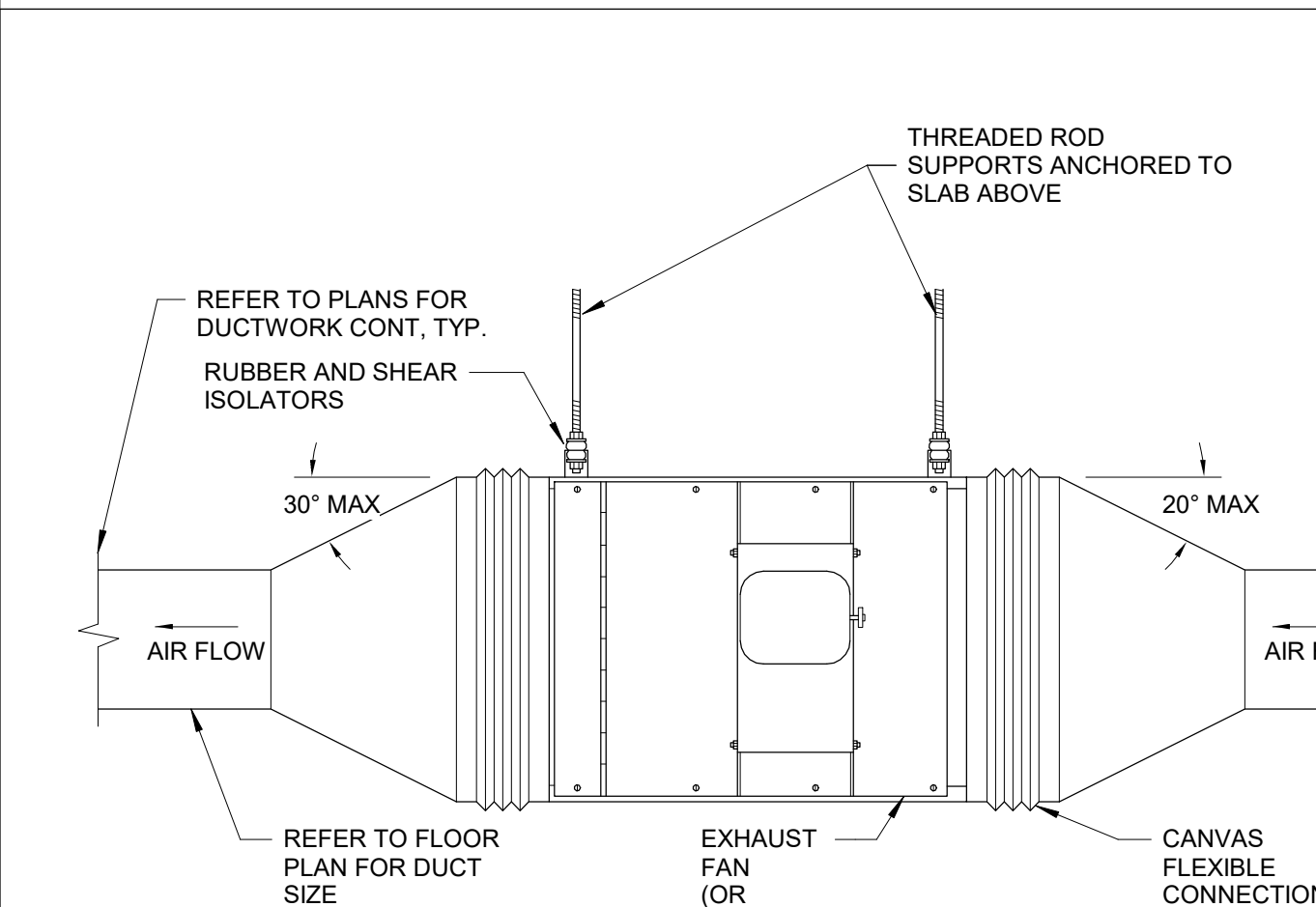
1 TYPICAL ROOFTOP UNIT DIAGRAM
SCALE: NTS



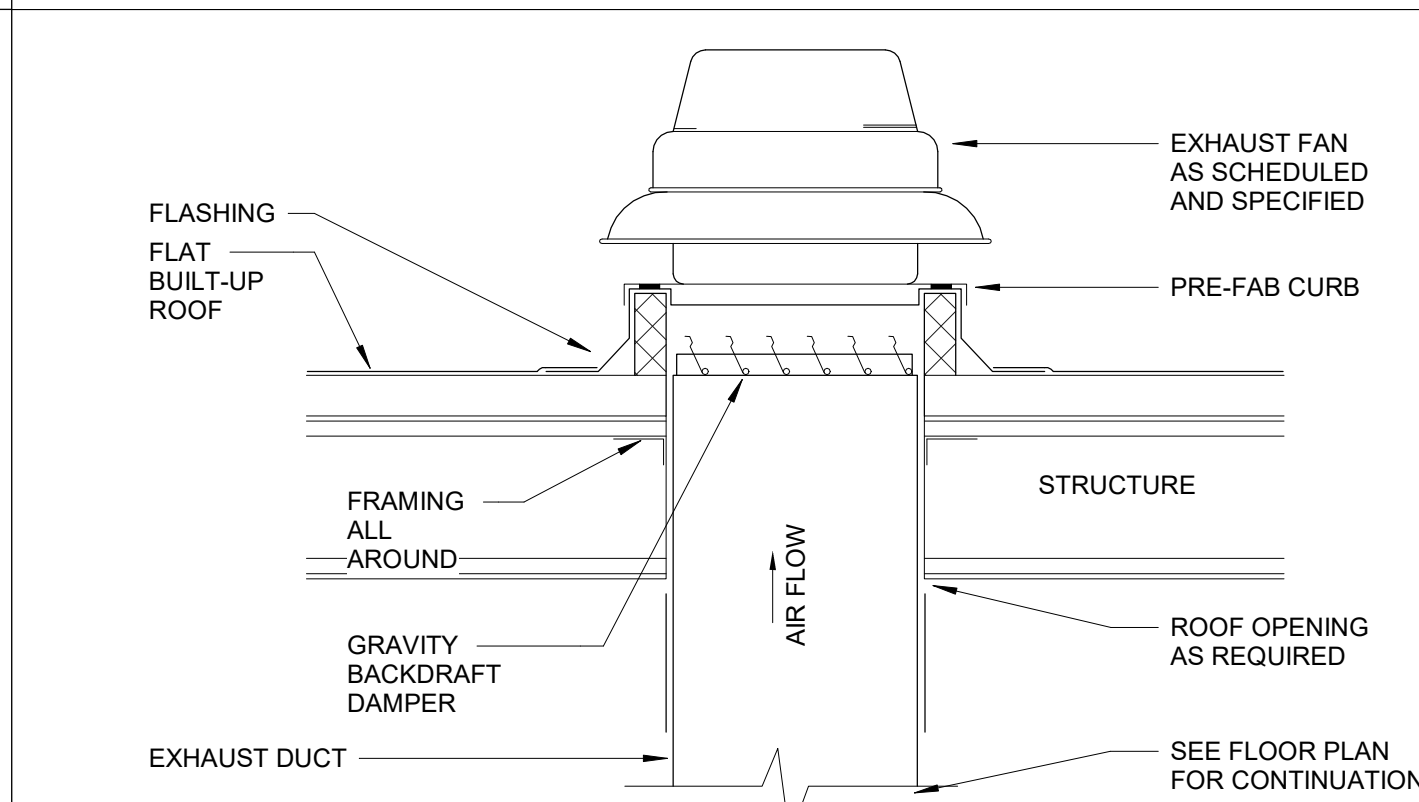
2 TYPICAL ROOF CURB DETAIL
SCALE: NTS



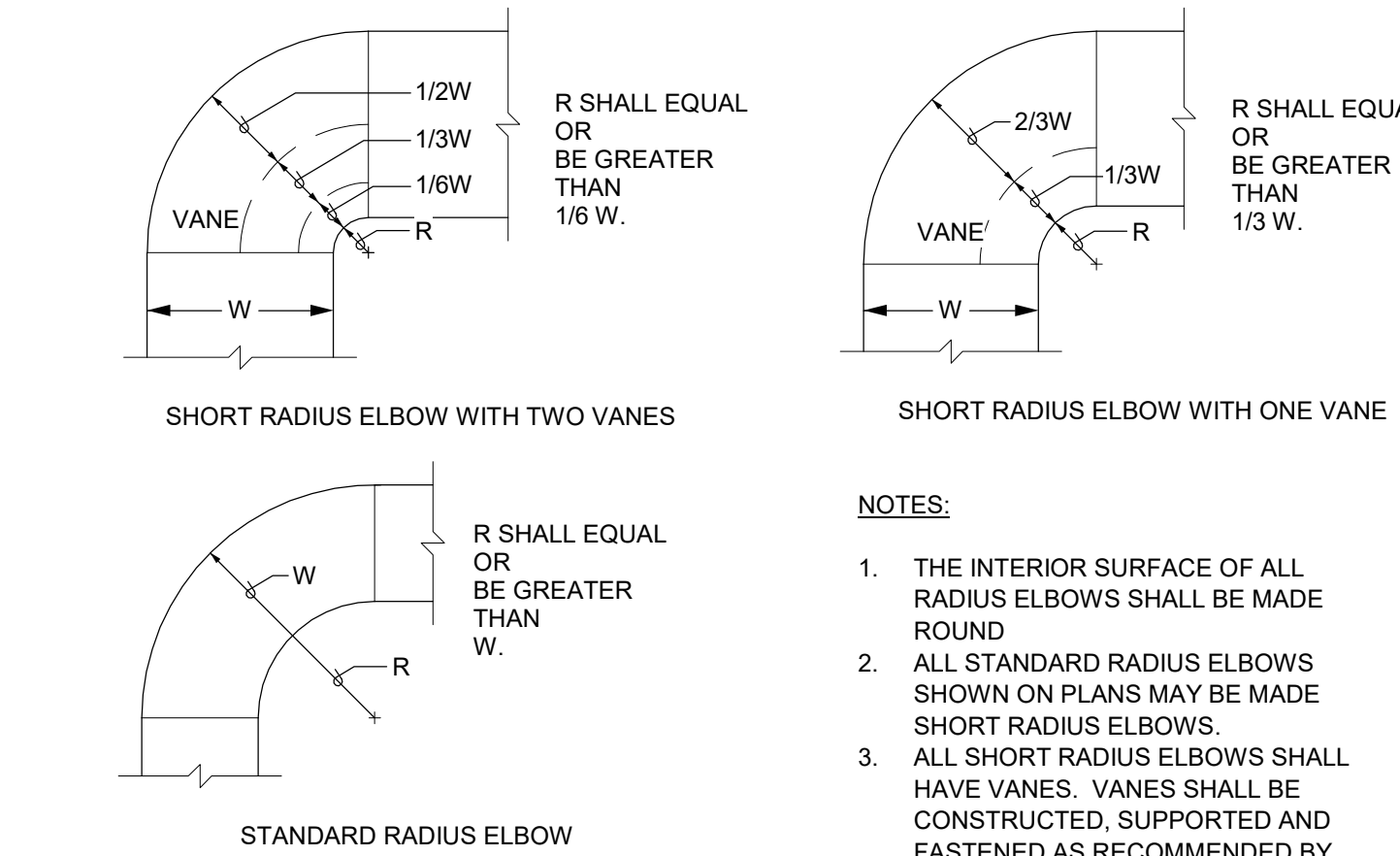
13 SUPPLY DUCT TAKE-OFFS
SCALE: NTS



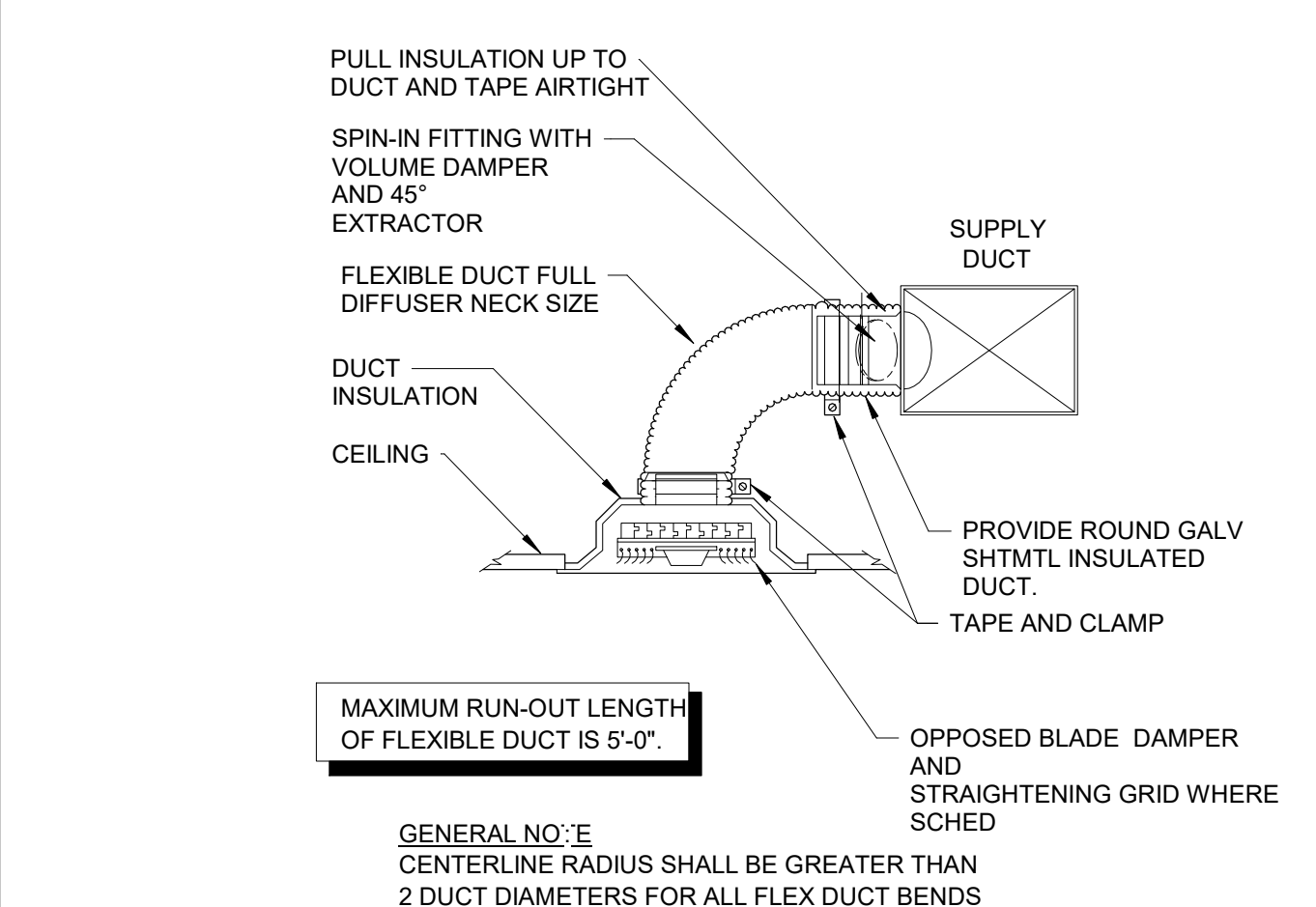
9 INLINE EXHAUST FAN
SCALE: NTS



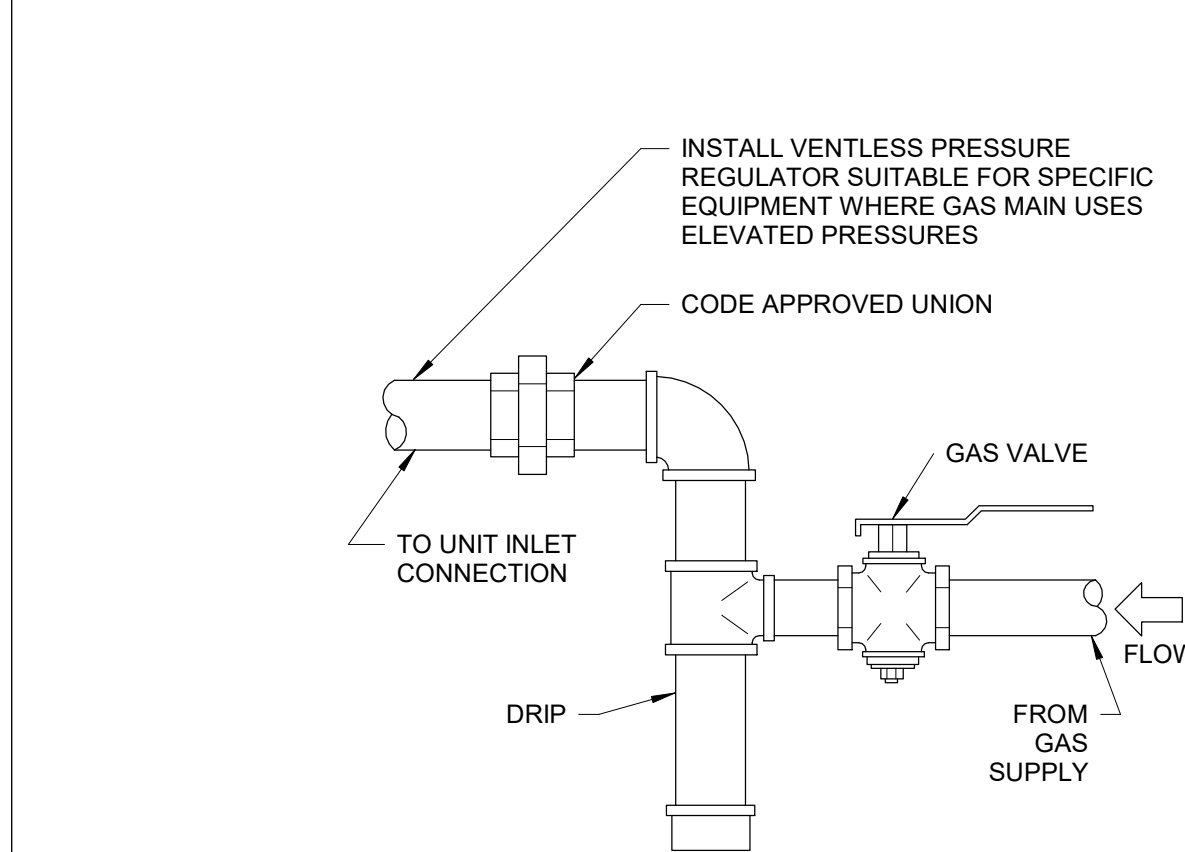
3 ROOF MOUNTED EXHAUST FAN
SCALE: NTS



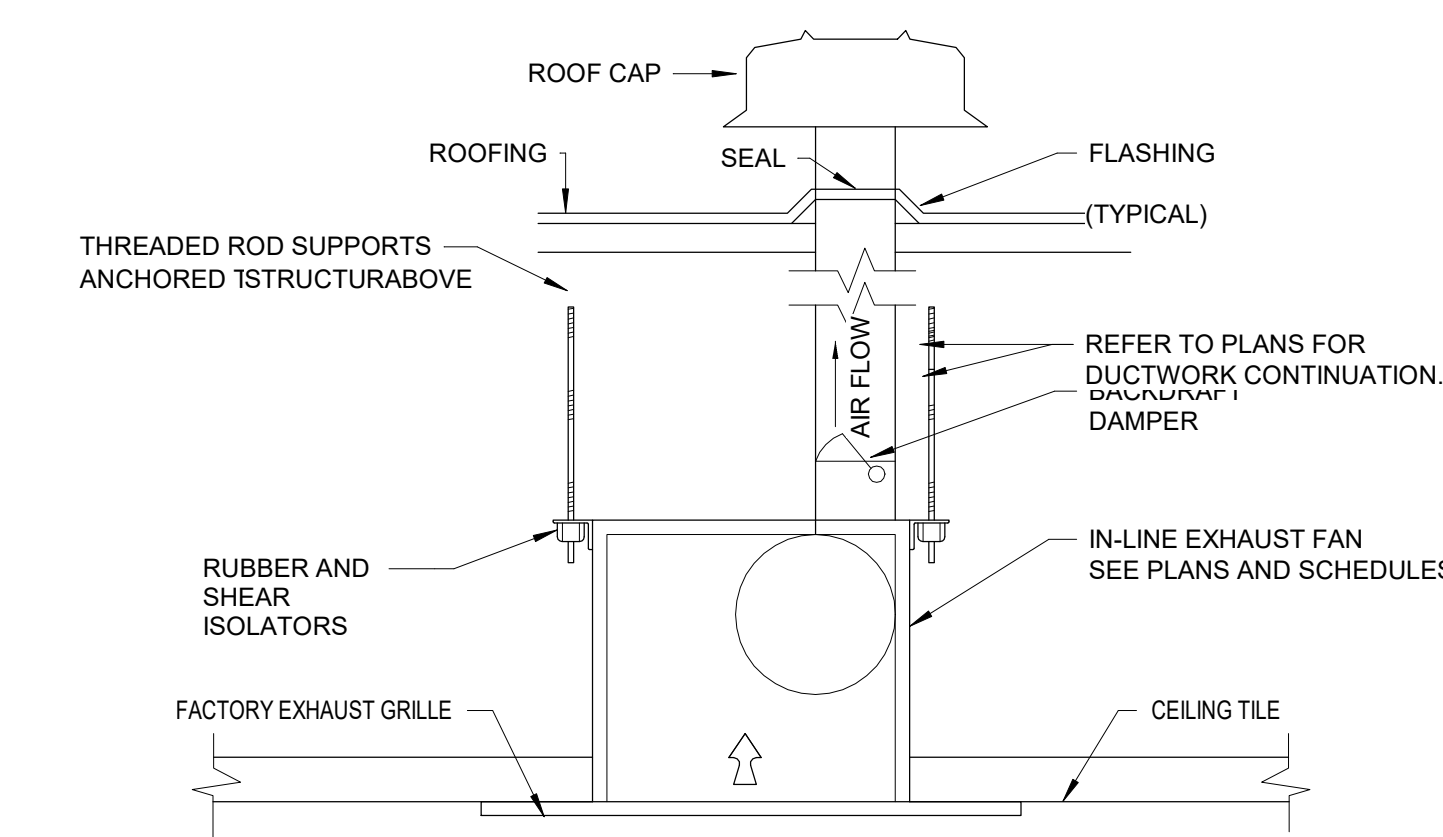
14 TYPICAL RADIUS ELBOWS DETAIL
SCALE: NTS



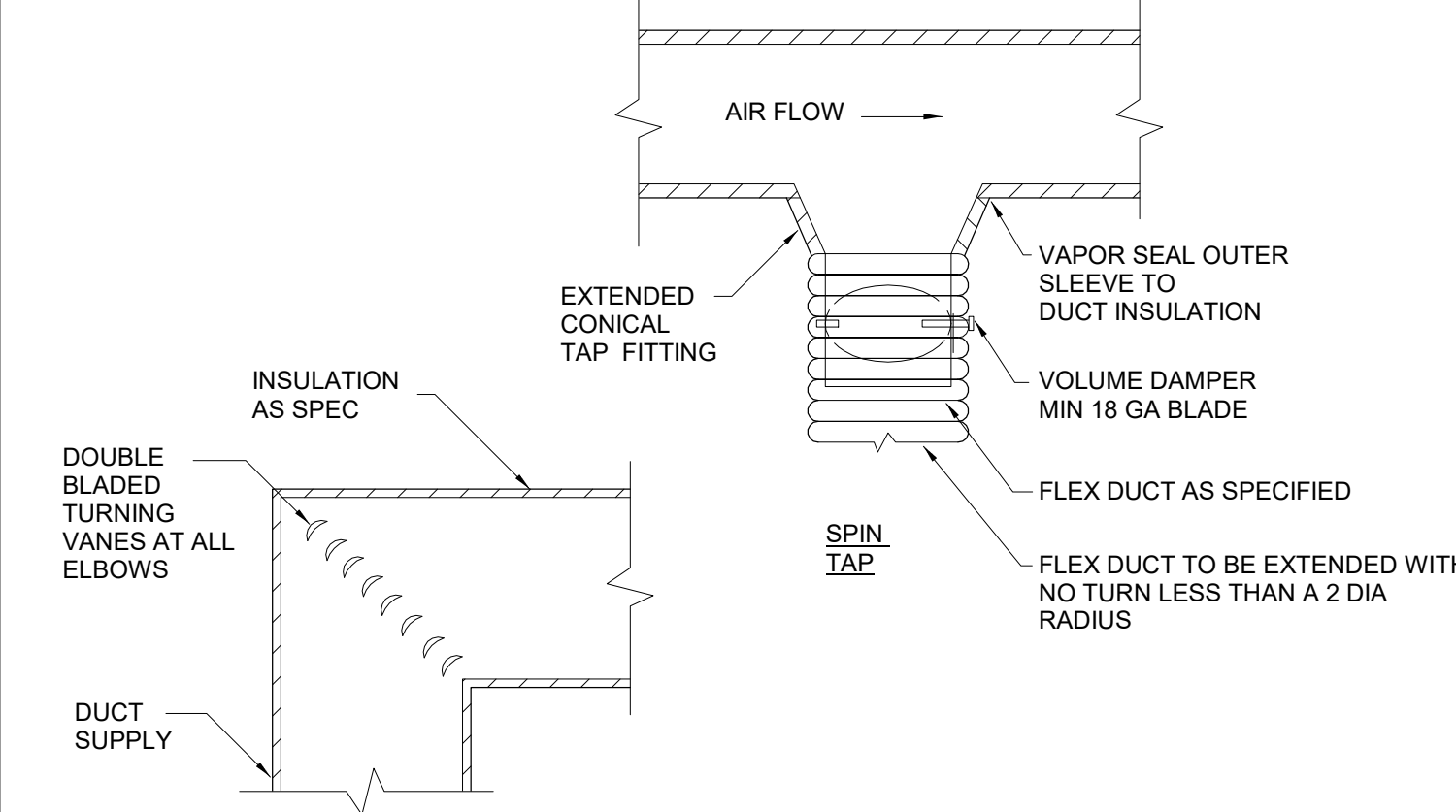
10 CEILING DIFFUSER AND FLEXIBLE DUCT
SCALE: NTS



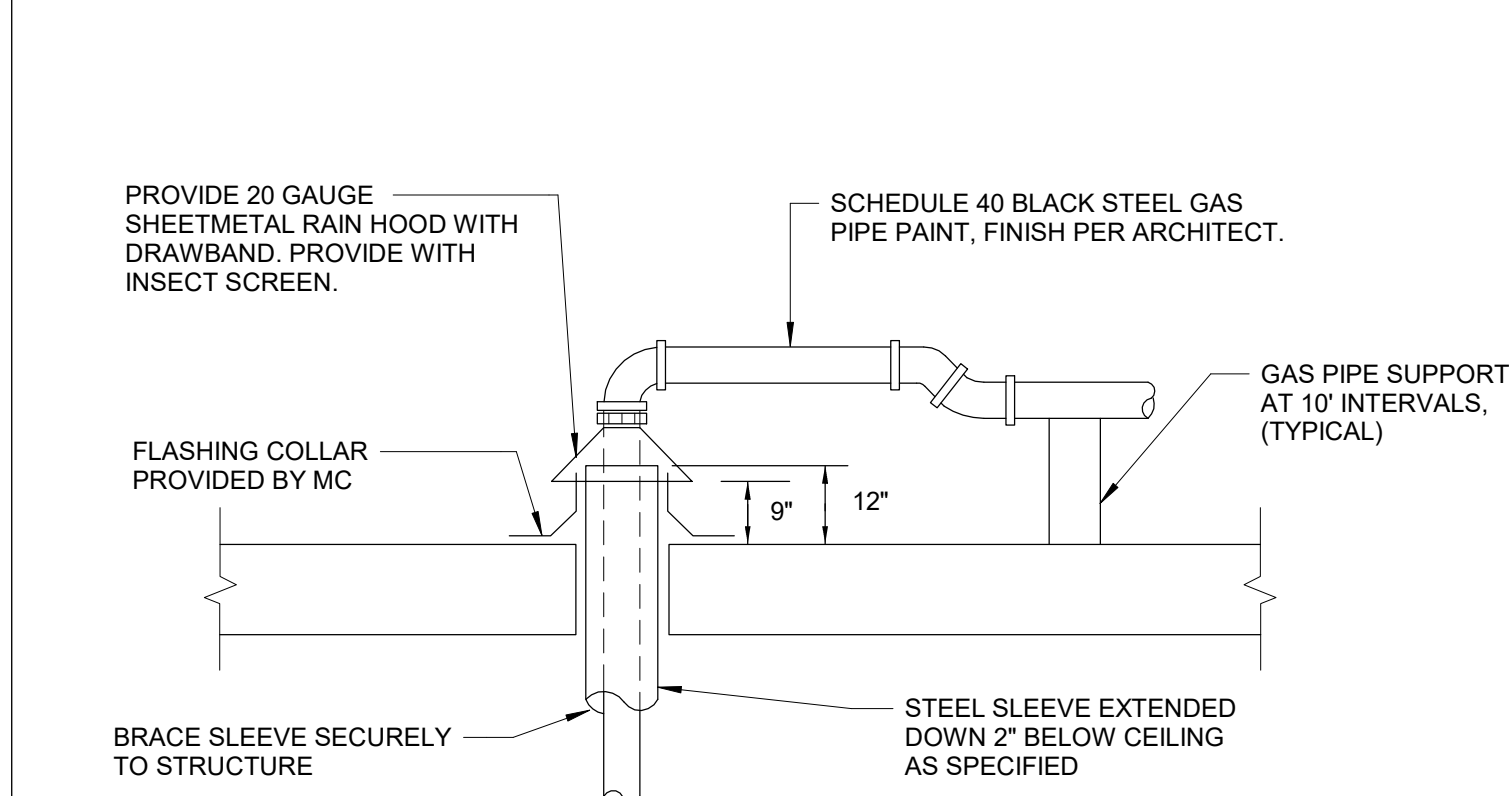
5 GAS CONNECTION
SCALE: NTS



15 INLINE EXHAUST FAN W/ ROOF CAP DETAIL
SCALE: NTS



11 MISCELLANEOUS DUCT DETAIL
SCALE: NTS



6 GAS PIPING THRU ROOF
SCALE: NTS

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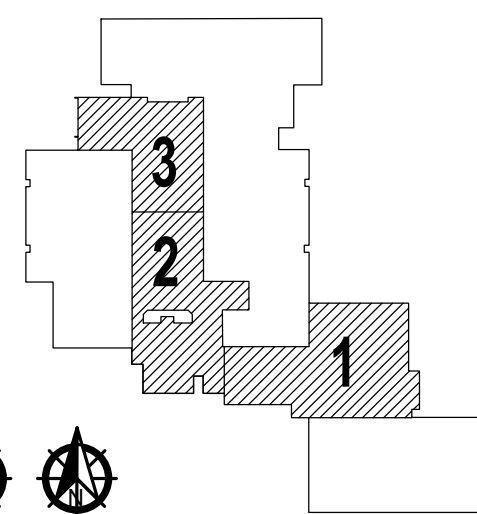


OWASSO 8th GRADE ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

11/25/2025

MECHANICAL DETAILS

M300

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Split System Schedule										
Identity	Manufacturer	Model	Installation Type	Nominal Capacity	Min Cooling Capacity	Minimum Efficiency	Refrigerant Type	Electrical Voltage	Phase	Product Weight
AC-1	LG	KNJAB181A	WALL	18000.0 Btu/h	3000.0 Btu/h	23 SEER2 / 13 EER2	R32	208 V	1	26.00 lbf
AC-2	LG	KNJAB181A	WALL	18000.0 Btu/h	3000.0 Btu/h	23 SEER2 / 13 EER2	R32	208 V	1	26.00 lbf
CU-1	LG	KUSAB181A	ROOF	18000.0 Btu/h	3000.0 Btu/h	23 SEER2 / 13 EER2	R32	208 V	1 19 A	128.00 lbf
CU-2	LG	KUSAB181A	ROOF	18000.0 Btu/h	3000.0 Btu/h	23 SEER2 / 13 EER2	R32	208 V	1 19 A	128.00 lbf

- NOTES:**
1. PROVIDE CONDENSING UNIT WITH 12" TALL SUPPORT FEET.
 2. LOCATE UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR SERVICE AND AIRFLOW.
 3. EXTERIOR UNIT TO PROVIDE POWER TO INTERIOR AHU.
 4. PROVIDE CONDENSING UNIT WITH LOW AMBIENT WIND BAFFLES FOR LOW AMBIENT COOLING DOWN TO 0 F DEGREES.
 5. PROVIDE CONDENSING UNIT WITH HAIL GUARDS.
 6. PROVIDE WALL-MOUNTED CONTROLLER.
 7. PROVIDE WITH CONDENSATE PUMP.
 8. PROVIDE WITH BAS CONTROLS TO MONITOR EQUIPMENT. COORDINATE EXACT REQUIREMENT WITH AWARDED CONTROLS.
 9. CONDENSING UNIT TO HAVE VARIABLE SPEED COMPRESSOR W/ AUTO RESTART.

HOOD SCHEDULE									
MARK	MANUFACTURER	MODEL	SUPPLY			THROAT AREA (SQ. FT.)	DAMPER	UNIT WEIGHT	Comments
			AIRFLOW (CFM)	ESP (IN WG)	NECK SIZE (IN)				
IH-1	Greenheck	FGI-32-50	5,100	0.05	32" x 50"	11	Backdraft	237	ALL
RH-1	Greenheck	FGI-32X50	5,100	0.051	32" x 50"	11	Backdraft	189	ALL
RH-2	Greenheck	FGI-16X32	1,550	0.049	16" X 32"	4	Backdraft	95	ALL
RH-3	Greenheck	GRSR-16	900	0.043	16" X16"	1	Backdraft	38	ALL

- NOTES:**
1. PROVIDE UNIT WITH CUSTOM HEIGHT ROOF CURB AS REQ'D. AT STORM SHELTER ROOF AREA TO ACCOUNT FOR TAPER INSULATION HEIGHT. FIELD COORD. FINAL INSTALLATION WITH CONTRACTOR & FIELD CONDITION. MAINTAIN CURB HEIGHT MINIMUM OF 6" ABOVE FINISHED ROOF.
 2. PROVIDE UNIT WITH BIRD SCREEN & BACKDRAFT DAMPER.

RTU SCHEDULE															
MARK	MANUFACTURER	MODEL	NOMINAL TONS	SUPPLY			OUTSIDE AIR (CFM)	EXHAUST (CFM)	EXHAUST FAN SIZE (BHP)	COOLING		HEATING		ELECTRICAL	
				AIRFLOW (CFM)	ESP (IN WG)	FAN SIZE (BHP)				TOTAL CAPACITY (MBH)	SENSIBLE (MBH)	GAS INPUT (MBH)	CAPACITY (MBH)	NCA	MOC
RTU-4	Aeon, Inc.	RNA-007-A-A-3	7	2,500	1	1.65	425	0	0	73	59.3	121.5	17.1	25 A	480 V/3
RTU-5	Aeon, Inc.	RNA-006-A-A-3	6	2,250	1	1	425	0	0	65.1	53.4	90	72.9	16 A	25 A
RTU-13	Aeon, Inc.	RNA-010-A-A-3	10	2,500	1.2	1.42	1,300	1,300	0.2	110.9	78.0	210	170.1	26 A	35 A
RTU-14	Aeon, Inc.	RNA-013-B-A-3	13	3,200	1.2	1.65	1,725	1,300	0.2	156.3	106.9	292.5	236.9	37 A	45 A
RTU-27	Aeon, Inc.	RNA-016-A-A-3	16	2,500	1.2	1.42	1,300	1,300	0.18	110.9	78.0	210	170.1	26 A	35 A
RTU-28	Aeon, Inc.	RNA-013-B-A-3	13	3,400	1.2	1.65	1,450	1,225	0.14	153.8	107.4	292.5	236.9	37 A	45 A
RTU-29	Aeon, Inc.	RNA-010-A-A-3	10	2,500	1.2	1.42	1,225	1,225	0.16	110.1	77.5	210	170.1	26 A	35 A
RTU-30	Aeon, Inc.	RNA-013-B-A-3	13	3,200	1.2	1.66	1,500	1,225	0.16	158.3	105.3	292.5	236.9	37 A	45 A
RTU-31	Aeon, Inc.	RNA-011-B-A-3	11	4,600	1.75	3.11	550	-	-	112.1	97.1	195	158	27 A	30 A
RTU-32	Aeon, Inc.	RNA-030-C-A-3	30	9,000	2	9.12	2,700	-	-	295.6	223.6	540	437.4	71 A	90 A
RTU-33	Aeon, Inc.	RNA-030-C-A-3	30	9,000	2	9.17	2,400	-	-	292.7	221.7	540	437.4	71 A	90 A

- NOTES:**
1. Aeon TO BE PROVIDED AS SPECIFIED UNLESS PRIOR APPROVAL FROM SCHOOL.
 2. PROVIDE WITH 18" ROOF CURB TO MATCH ROOF SLOPE. SEE DETAIL FOR ADDITIONAL INFORMATION.
 3. PROVIDE UNIT WITH FACTORY MOUNTED CONTROLS AS REQUIRED TO INTERLOCK SPACE TEMPERATURE AND HUMIDITY SENSORS WITH AUTOMATIC BUILDING CONTROLS SYSTEM.
 4. PROVIDE LOW LEAK COMPARATIVE ENTHALPY ECONOMIZER WITH FULLY MODULATING ACTUATOR.
 5. PROVIDE POWERED EXHAUST FOR SPACE PRESSURE CONTROL AS SCHEDULED ABOVE.
 6. PROVIDE FACTORY POWERED CONVENIENCE OUTLET, DISCONNECT, AND SCCR RATING OF 10 KAIC.
 7. PROVIDE SINGLE POINT CONNECTION. PROVIDE UNIT AUTO SHUT-DOWN FUNCTION (INCLUDING RELAYS) FOR FIELD INTERLOCK OF DUCT MOUNTED SMOKE DETECTORS AT RETURN.
 8. PROVIDE 2" FILTER RACK AND MERV 8 FILTERS AND CLOGGED FILTER SWITCH. DO NOT RUN EQUIPMENT WITHOUT FILTERS IN PLACE. REPLACE FILTERS WITH NEW AT THE END OF CONSTRUCTION.
 9. PROVIDE STAINLESS STEEL HEAT EXCHANGER WITH TURN DOWN.
 10. PROVIDE UNIT WITH HAIL GUARDS AND HINGED ACCESS PANELS.
 11. PROVIDE WITH 6& 7 TON UNITS WITH TWO STAGES OF COOLING, 10 & 13 TON UNITS WITH VARIABLE CAPACITY COOLING, 11 TON UNIT WITH 5 STAGES OF COOLING, AND 30 TON UNITS VARIABLE CAPACITY COOLING.
 12. PROVIDE WITH FIELD WIRED 115V CONVENIENCE OUTLET.
 13. PROVIDE WITH SIDE DISCHARGE CURB ADAPTER TO CONVERT DOWNFLOW RTU.
 14. INTERLOCK OUTSIDE AIR CONTROL TO INCREASE PROPORTIONAL TO THE LAB HOOD EXHAUST FAN TO MAINTAIN NEUTRAL PRESSURE WITHIN THE CLASSROOM.

EXHAUST FAN SCHEDULE											
MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	SP (in)	ELECTRICAL		MCA	MOC	VOLTAGE / PHASE	WEIGHT (LBS)	Comments
					MOTOR HP	FLA					
EF-1	GREENHECK	SP-A90	50	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-2	GREENHECK	SP-A90	70	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-3	GREENHECK	CSP-A1050-VG	750	0.5	0.15	4.8 A	5.9 A	15 A	120V / 1PH	50	2.5,7
EF-4	GREENHECK	CUE-090-VG	450	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-5
EF-5	GREENHECK	CUE-090-VG	275	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-5
EF-6	GREENHECK	CUE-090-VG	450	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-5
EF-7	GREENHECK	G-095-VG	500	0.5	1/6	2.8 A	3.5 A	15 A	120V / 1PH	50	1-5
EF-8	GREENHECK	SP-A90	50	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-9	GREENHECK	SP-A90	50	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-10	GREENHECK	CUE-090-VG	275	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-5
EF-11	GREENHECK	CUE-090-VG	450	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-5
EF-12	GREENHECK	CUE-090-VG	450	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-6
EF-13	GREENHECK	CUE-090-VG	425	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-5
EF-14	GREENHECK	CUE-090-VG	450	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-6
EF-15	GREENHECK	CUE-090-VG	450	0.5	1/10	1.5 A	1.9 A	15 A	120V / 1PH	50	1-6
EF-16	GREENHECK	SP-A90	50	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-17	GREENHECK	SP-A90	50	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-18	GREENHECK	SP-A90	70	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-19	GREENHECK	SP-A90	70	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-20	GREENHECK	SP-A90	50	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-21	GREENHECK	SP-A90	50	0.25	-	0.2 A	0.2 A	15 A	120V / 1PH	12	2.5,7
EF-22	GREENHECK	CSP-A700-VG	450	0.25	0.07	4.1 A	5.1 A	15 A	120V / 1PH	39	2.4, 8
EF-23	GREENHECK	CSP-A700-VG	450	0.25	0.07	4.1 A	5.1 A	15 A	120V / 1PH	39	2.4, 8

- NOTES:**
1. PROVIDE UNIT WITH 14" TALL ROOF CURB AND MATCH ROOF SLOPE. MAINTAIN CURB HEIGHT MINIMUM OF 6" ABOVE FINISHED ROOF.
 2. FAN SHALL BE INSTALLED WITH STANDARD MOTOR STARTER OR UNIT MOUNTED FAN SPEED CONTROLLER (FOR INITIAL BALANCING) AS REQUIRED.
 3. PROVIDE UNIT WITH BACKDRAFT DAMPER AND BIRD SCREEN.
 4. EXHAUST OUTLETS TO BE GREATER THAN 10'-0" HORIZONTAL OR 3'-0" VERTICAL ABOVE FROM OUTSIDE AIR INTAKES.
 5. FAN OPERATION TO BE INTERLOCKED WITH BUILDING AUTOMATION CONTROLS SYSTEM AND PROVIDE CONTINUOUS VENTILATION WHEN THE BUILDING IS OCCUPIED.
 6. FAN OPERATION TO BE TIED TO HOOD CONTROLRLS.
 7. PROVIDE WITH CEILING-MOUNTED GRILLE AND ROOF HOOD TERMINATION.
 8. PROVIDE WITH THERMOSTAT CONTROL TO ENERGIZE FAN WHEN ROOM EXCEEDS SET POINT. COORDINATE WITH SCHOOL FOR NIGHT SET BACK TEMPERATURES TO NOT FALSELY TRIGGER FAN.

SUPPLY VENTILATION FAN SCHEDULE									
MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	SP (IN.)	ELECTRICAL		MCA	MOC	VOLTAGE / PHASE
					MOTOR HP	FLA			
SVF-1	GREENHECK	SQ-160-VG	2,600	1.0	1.0	13.0 A	16.3 A	25 A	120V / 1PH
SVF-2	GREENHECK	SQ-160-VG	2,600	1.0	1.0	13.0 A	16.3 A	25 A	120V / 1PH
SVF-3	GREENHECK	SQ-100-VG	800	0.5	0.25	3.8 A	4.8 A	15 A	120V / 1PH

- NOTES:**
1. FAN SHALL BE INSTALLED WITH STANDARD FAN SPEED CONTROLLER (FOR INITIAL BALANCING) AS REQUIRED.
 2. PROVIDE UNIT WITH BACKDRAFT DAMPER AND BIRD SCREEN.
 3. FAN TO BE OFF DURING NORMAL OPERATION. CONNECT TO EMERGENCY POWER SYSTEM. PROVIDE MANUAL OVERRIDE ON/OFF WALL MOUNT BUTTON/SWITCH TO ACTIVATE FANS AND LOCATE IN AN OWNER APPROVED LOCATION. PROVIDE PERMANENT SIGNAGE ABOVE BUTTON/ SWITCH THAT READS, "FOR EMERGENCY VENTILATION FAN ACTIVATION ONLY". SWITCH SHALL BE ENCLOSED IN A CLEAR BOX WITH A KEY TO DETER TEMPERING. CONNECT TO BAS FOR MONITORING. COORDINATE WITH ELECTRICAL.
 4. INSTALL IN-LINE FAN IN ABOVE CEILING. SUSPEND UNIT FROM STRUCTURE PER MFR'S INSTALLATION MANUAL. LOCATE UNIT IN ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL AS REQ'D.
 5. PROVIDE INDEPENDENT B.A.S. AT STORM SHELTER. EMERGENCY VENTILATION SYSTEM FANS AND MOTORIZED DAMPERS SHALL BE TIED TO B.A.S. INSIDE OF RESPECTIVE STORM SHELTER. CONNECT EACH B.A.S. SYSTEM TO MAIN B.A.S. ALARM SHALL BE SENT TO RESPECTIVE SCHOOL PERSONNEL WHERE LOCATED ABOVE INACCESSIBLE CEILINGS.
 6. EMERGENCY VENTILATION SYSTEM INCLUDING B.A.S. SHALL BE POWERED BY RESPECTIVE EMERGENCY POWER SYSTEM. COORDINATE WITH ELECTRICAL.
 7. B.A.S. TO MONITOR RTUs AND ACTIVATE EMERGENCY VENTILATION SYSTEM ONLY WHEN RTUs ARE DOWN. PROVIDE ACTIVATION DELAY TO ACCOUNT FOR POWER FLUCTUATION AS REQ'D.
 8. EMERGENCY VENTILATION SWITCH SHALL BE LOCATED INSIDE OF RESPECTIVE STORM SHELTER AREA BEING SERVED.
 9. DAMPERS SHALL BE OPEN/ CLOSE ACCORDINGLY:
 - A. DAMPERS NORMALLY CLOSED (OPEN ON ACTIVATION OF EMERGENCY VENTILATION SYSTEM)(FAIL OPEN).
 - B. MOTORIZED DAMPER SERVING VENTILATION FAN/ INTAKE AND RELIEF HOOD, RELIEF AIR OPENING FROM R/A DUCT.
 - C. DAMPERS NORMALLY OPENED (CLOSE ON ACTIVATION OF EMERGENCY VENTILATION SYSTEM)(FAIL CLOSE).
 - D. MOTORIZED DAMPERS DOWNSTREAM OF SINGLE ZONE RTUs.
 10. PROVIDE WITH THERMOSTAT CONTROL TO ENERGIZE FAN WHEN ROOM EXCEEDS SET POINT. COORDINATE WITH SCHOOL FOR NIGHT SET BACK TEMPERATURES TO NOT FALSELY TRIGGER FAN.

AIR TERMINAL SCHEDULE							
MARK	MANUFACTURER	MODEL NO.	MOUNTING	FACE SIZE	NECK SIZE	FINISH	NOTES
A	TITUS	TMS	LAY-IN / SURF.	12" X 12"	6" Ø	WHITE	1-9
B	TITUS	TMS	LAY-IN / SURF.	24" X 24"	6" Ø	WHITE	1-9
C	TITUS	TMS	LAY-IN / SURF.	24" X 24"	10" Ø	WHITE	1-9
D	TITUS	TMS	LAY-IN / SURF.	24" X 24"	12" Ø	WHITE	1-9
J2	TITUS	50F	LAY-IN / SURF.	12" X 24"	(SEE PLANS)	WHITE	1-8
J3	TITUS	50F	LAY-IN / SURF.	24" X 24"	(SEE PLANS)	WHITE	1-8
K8	CAPTIVE AIRE	DLPSR-08-24X24	LAY-IN	24" X 24"	6" Ø	STAINLESS STEEL	1,2,3,5,6,8,9
K10	CAPTIVE AIRE	DLPSR-10-24X24	LAY-IN	24" X 24"	10" Ø	STAINLESS STEEL	1,2,3,5,6,8,9
R2	TITUS	350FL	SURF.	(SEE PLANS)	(SEE PLANS)	WHITE	1-8
R3	TITUS	350FL	SURF.	(SEE PLANS)	(SEE PLANS)	WHITE	1-8
R4	TITUS	350FL	SURF.	(SEE PLANS)	(SEE PLANS)	WHITE	1-8
S1	TITUS	300RL	SURF.	(SEE PLANS)	(SEE PLANS)	WHITE	1-8
T	TITUS	S300FS	SURF.	16" X 4"	16" X 4"	PER ARCH	1-5

- NOTES:**
1. CFM FLOW RATE IS SHOWN ADJACENT TO AIR DEVICE MARK.
 2. PROVIDE BALANCING DAMPER FOR EACH DEVICE. PROVIDE AT BRANCH DUCT CONNECTION WHERE POSSIBLE. PROVIDE AIR DEVICES WITH BALANCING DAMPERS ACCESSIBLE AT FRONT FACE OF AIR DEVICE WHERE LOCATED ABOVE INACCESSIBLE CEILINGS. ALL RETURN AND EXHAUST AIR DEVICES SHALL BE PROVIDED WITH INTEGRAL BALANCING DAMPERS.
 3. ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTED.
 4. COORDINATE AND CONFIRM ALL AIR DEVICE FINISHES AND COLORS WITH ARCHITECT. PROVIDE PAINTABLE FINISH WHERE REQUIRED. COORDINATE WITH ARCHITECT PRIOR TO ORDERING.
 5. INSTALLATION TO BE COORDINATED WITH SITE CONDITIONS PRIOR TO ORDERING.
 6. COORDINATE MOUNTING HEIGHT WITH ALL OTHER TRADES. REFER TO PLANS FOR ADDITIONAL INFORMATION. COORDINATE MOUNTING, BORDERS, FRAMING WITH ARCHITECTURAL CONDITIONS PRIOR TO ORDERING.
 7. PROVIDE FACTORY DEVICE MOUNTING FRAMES AT ALL PLASTER, GP WB, AND MASONRY SURFACES TO RECEIVE FINISHED AIR DEVICE PRIOR TO ORDERING.
 8. PROVIDE SQUARE-TO-ROUND ADAPTER AS REQUIRED TO ACCOMMODATE ROUND DUCT CONNECTION.
 9. PROVIDE INSULATION BACKING TO ALL SUPPLY AIR DEVICES IN CEILINGS.

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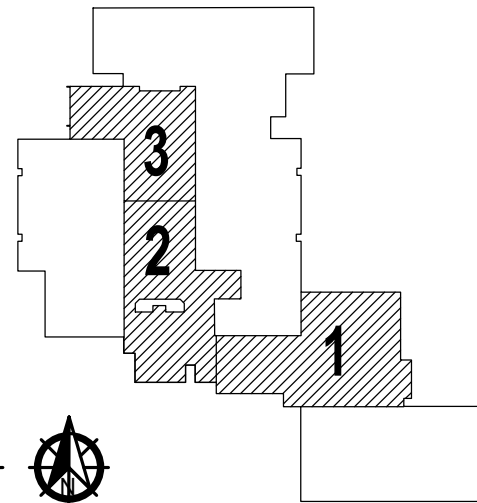


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11/25/2025

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PATENT NUMBERS
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#8197441

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1	KEH-1 (OVEN/PROOF)	6624 ND-2	CAPTIVEAIRE	10' 11"	600 DEG	I	HEAVY	175	1910			4"	14"	1910	1787	-0.974"	430 SS WHERE EXPOSED	ALONE	ALONE
2	KEH-2 (OVENS)	6624 ND-2	CAPTIVEAIRE	10' 11"	600 DEG	I	HEAVY	175	1910			4"	14"	1910	1787	-0.974"	430 SS WHERE EXPOSED	ALONE	ALONE
3	KEH-3 (RANGE/P-PAN)	6624 ND-2	CAPTIVEAIRE	10' 11"	600 DEG	I	HEAVY	195	2125			4"	14"	2125	1988	-1.204"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)				UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	AVERAGE FOOT CANDLES @ 36" AFF	LOCATION	SIZE	TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	
1	KEH-1 (OVEN/PROOF)	CAPTRATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	6	RECESSED ROUND	NO	57	LEFT	12"x66"x24"	TANK FS	4.0/4.0	DCV-3111	1 LIGHT 1 FAN	YES 1174 LBS
2	KEH-2 (OVENS)	CAPTRATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	6	RECESSED ROUND	NO	57	RIGHT	12"x66"x24"	TANK FS	4.0/4.0/4.0			YES 1228 LBS
3	KEH-3 (RANGE/P-PAN)	CAPTRATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	6	RECESSED ROUND	NO	57	LEFT	12"x66"x24"					YES 928 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KEH-1 (OVEN/PROOF)	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 144.00" LONG 430 SS VERTICAL.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 66" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.
		INSULATION FOR BACK OF HOOD.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2	KEH-2 (OVENS)	LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 144.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 66" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.
		INSULATION FOR BACK OF HOOD.
3	KEH-3 (RANGE/P-PAN)	RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 122.00" HIGH X 144.00" LONG 430 SS VERTICAL.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 66" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		STRUCTURAL FRONT PANEL.

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1,2,3	TOP	0"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	0"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.

- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

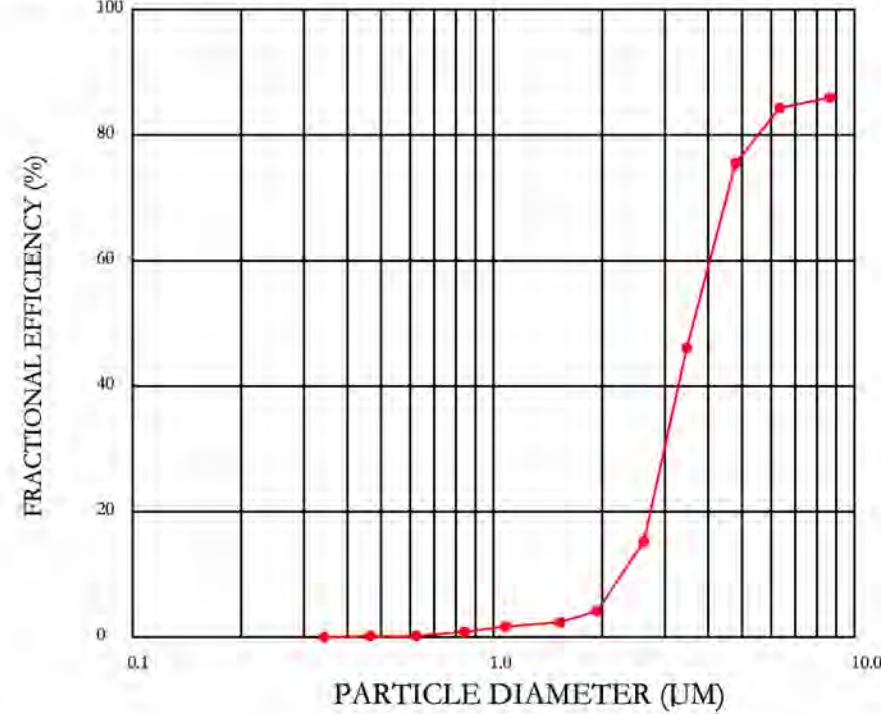
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

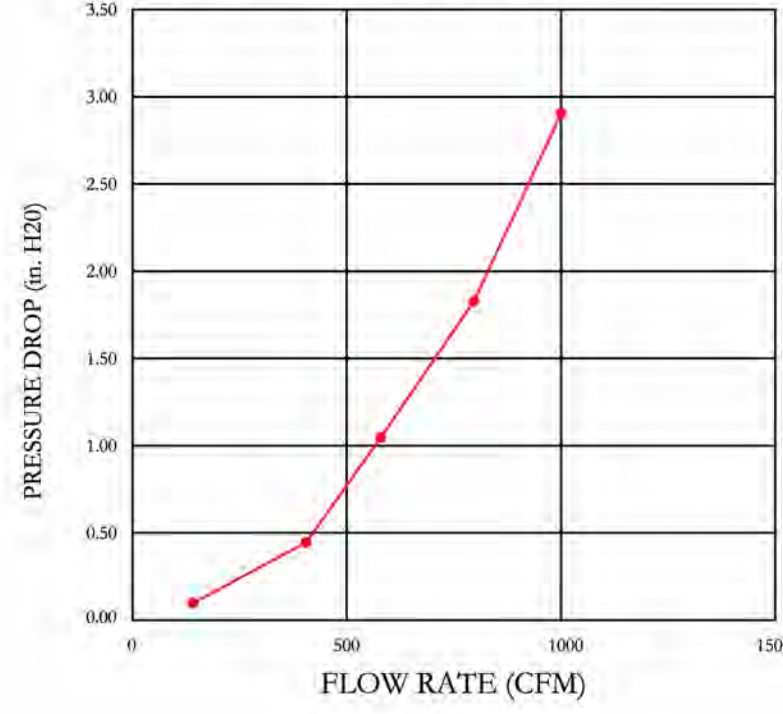
THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

PRESSURE DROP VS. FLOW RATE



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Owasso 8th Grade Center
13901 East 86th Street North,
Owasso, OK, 74055

DATE: 8/28/2025

DWG.#:
8197441

DRAWN BY: RJH-80

SCALE:
3/4" = 1'-0"

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SHEET NO.

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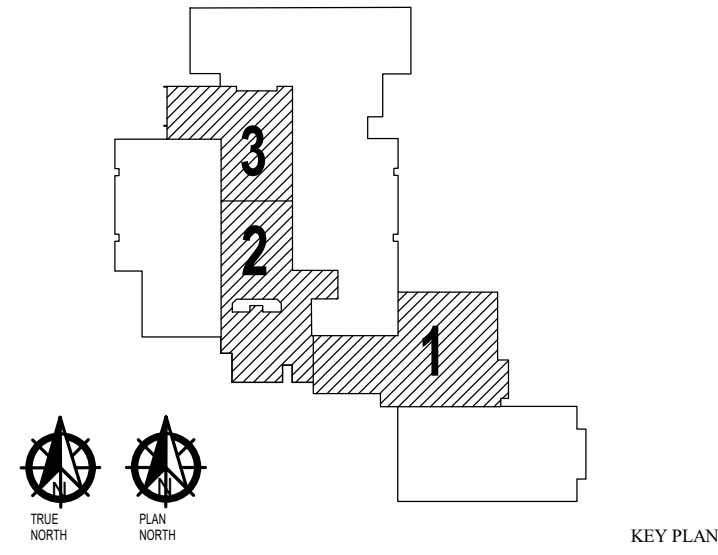


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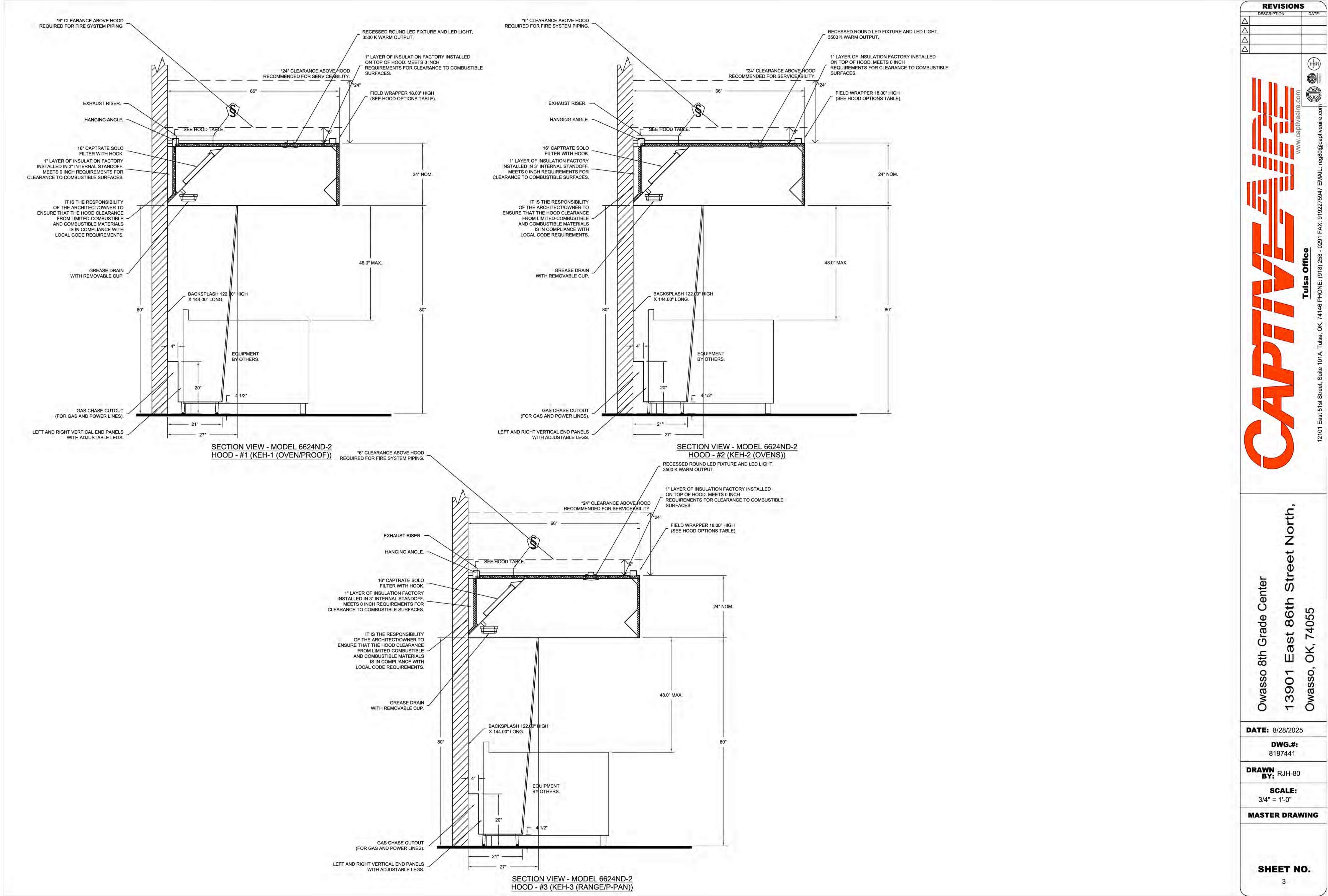
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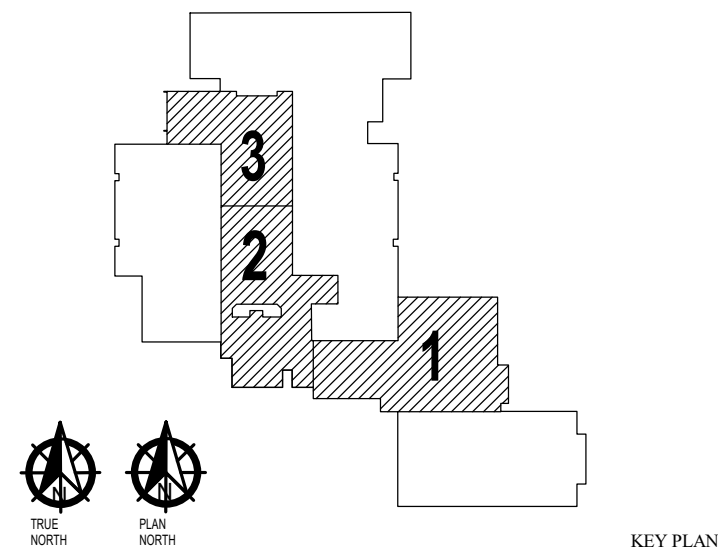
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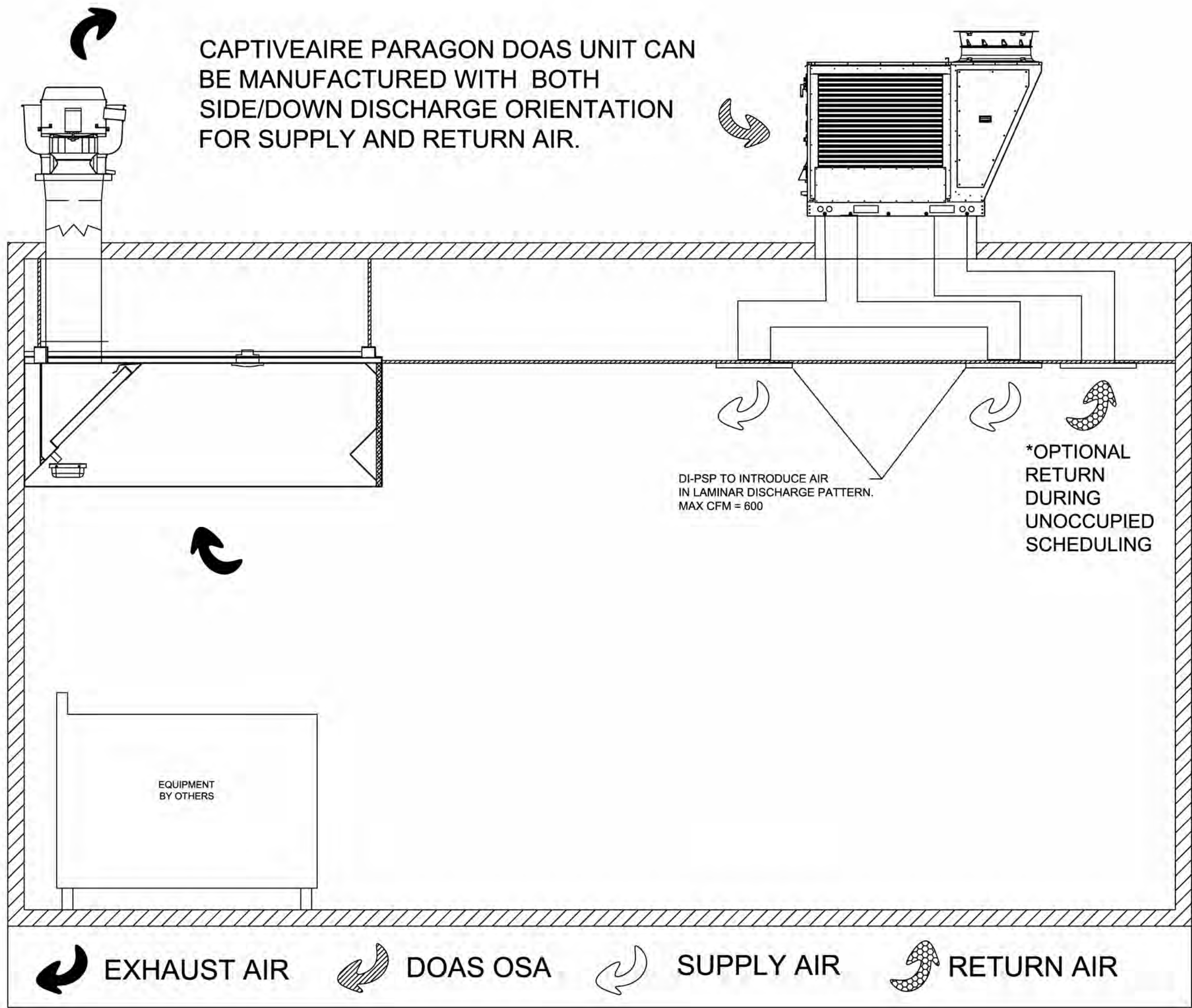
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SEQUENCE OF OPERATIONS:

OCCUPIED SCHEDULING:

- HOOD TURNS ON VIA BUTTON OR TEMPERATURE.
- DOAS, IF NOT ALREADY ON, WILL TURN ON AND MODULATE TO PROPER OSA CFM.
- DOAS TEMPERATURE AND HUMIDITY WILL MODULATE UNTIL WITHIN THRESHOLD.
- SYSTEM WILL STAY ON UNTIL TURNED OFF OR HEAT UNDER HOOD DISSIPATES.

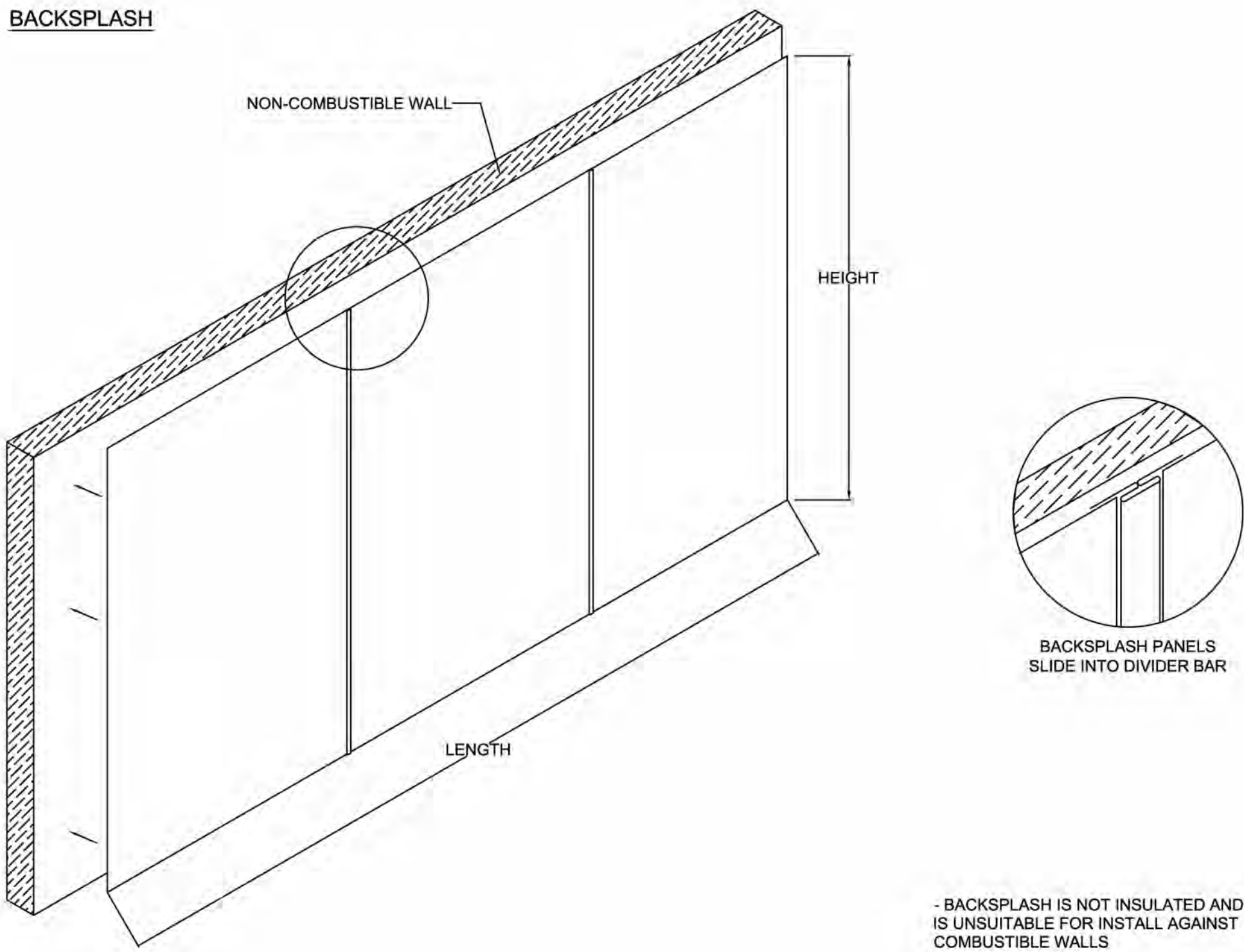
UNOCCUPIED SCHEDULING *IF OPTIONAL RETURN IS INCLUDED*:

- EXHAUST FAN IS TURNED OFF VIA BUTTON OR TEMPERATURE.
- OSA DAMPER ON PARAGON DOAS WILL MODULATE PROPER POSITION (IF OPTIONAL RETURN INCLUDED).
- DOAS WILL ADJUST HEATING/COOLING REQUIRED TO PROPERLY TREAT OSA.
- DOAS RUNS IN RE-CIRCULATION MODE UNTIL HOOD IS ACTIVATED.

HVAC DISTRIBUTION NOTE

Diffuser throw/velocity guidance:

- Withing 0'-2' of hood - NO Diffusers
- Between 2'-5' from hood - 50 FPM at 80" AFF
- Between 5'-10' from hood - 75 FPM at 80" AFF
- Between 10'-15' from hood - up to 150 FPM at 80" AFF



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DESCRIPTION	DATE

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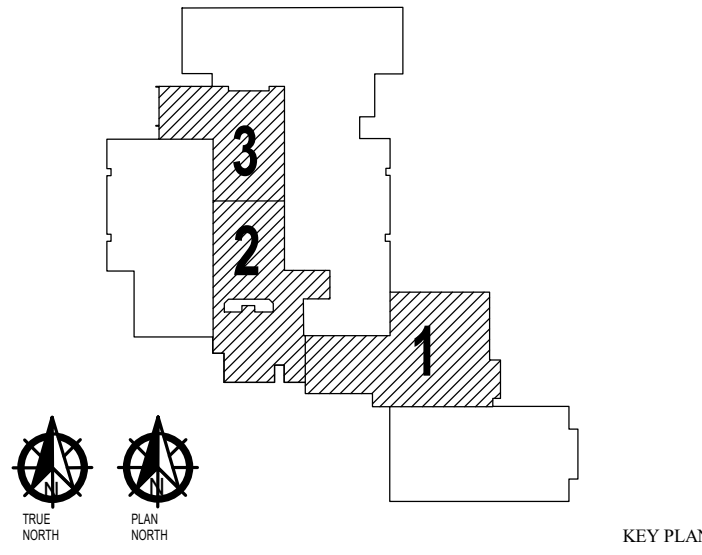


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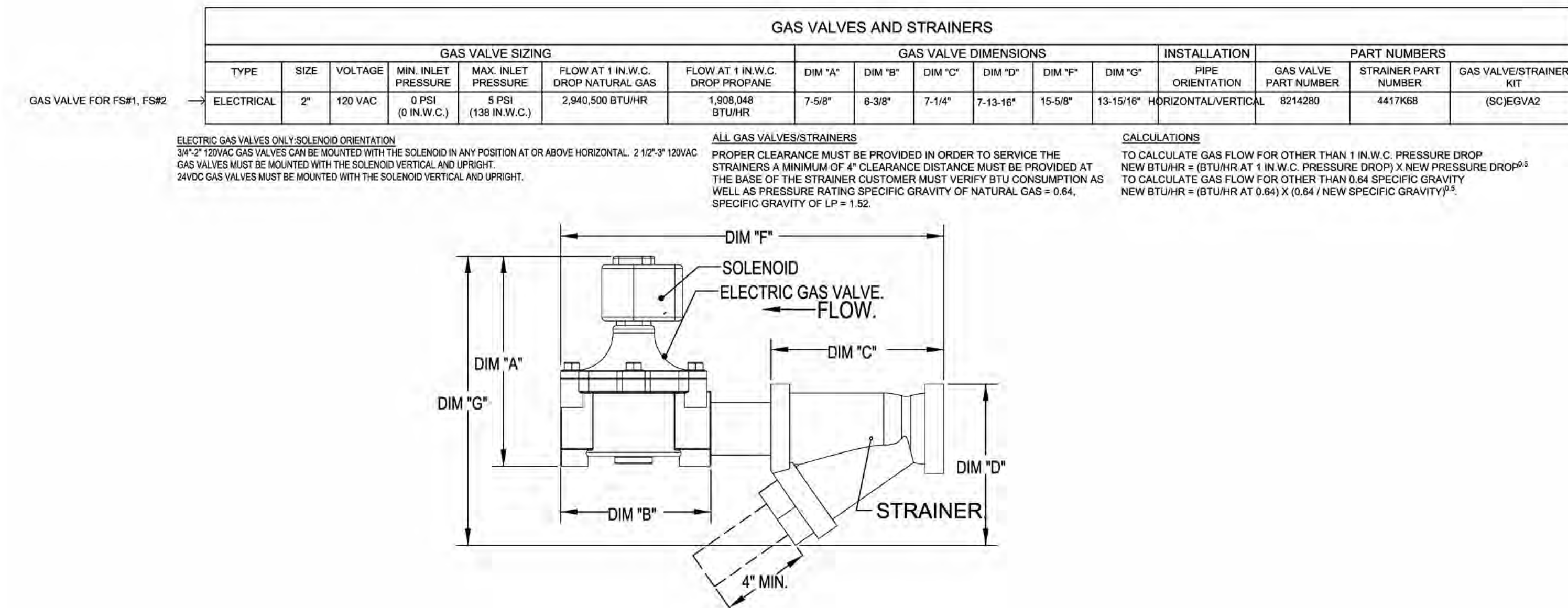
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FIRE SYSTEM INFORMATION - JOB#8197441

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	KEH-1/FS-1	TANK FS	4.0/4.0	40	37	WALL UTILITY CABINET LEFT	N/A
2	KEH-2/KEH-3/FS-2	TANK FS	4.0/4.0/4.0	60	54	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	KEH-1/FS-1	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS
2	KEH-2/KEH-3/FS-2	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS



FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	KEH-1/FS-1	0-0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0-0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0-0 - 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0-0 - 32-00002 QUIK SEAL - 1/2" (UL).	1	0
		0-0 - 361091 3/8" BRASS PLUG.	3	0
		0-0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	3	0
		0-0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0-0 - 79425 3/8" NPT FEMALE TO 1/2" MALE PROPRESS ADAPTER.	3	0
		0-0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" * NPT FEMALE CONNECTION, VIEGA.	1	0
		0-0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" * NPT FEMALE CONNECTION, VIEGA.	2	0
		0-0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0-0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #51560-201-EUDA, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0-0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0-0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	5	0
		0-0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	8	0
		0-0 - 86894A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0-0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0-0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0-0 - BI145 3/8" BLACK IRON 90 ELL.	3	0
		0-0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0-0 - SLPCON-40FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UPTO 39' GAP. KIT CONTAINS 42 FEET OF BLACK MG WIRE, 42 FEET OF TAN MG WIRE, 40 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	0
		0-0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0-0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0-0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	8	0
		16 - 16 - OL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	8	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	8	0
		34 - 34 - A0034331 RED COLOR - 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	0
2	KEH-2/KEH-3/FS-2	0-0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0-0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0-0 - 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	2	0
		0-0 - 32-00002 QUIK SEAL - 1/2" (UL).	2	0
		0-0 - 361091 3/8" BRASS PLUG.	7	0
		0-0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	3	0
		0-0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	2	0
		0-0 - 79425 3/8" NPT FEMALE TO 1/2" MALE PROPRESS ADAPTER.	7	0
		0-0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" * NPT FEMALE CONNECTION, VIEGA.	2	0
		0-0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" * NPT FEMALE CONNECTION, VIEGA.	3	0
		0-0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	2	0
		0-0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	2	0
		0-0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	3	0
		0-0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0-0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #51560-201-EUDA, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0-0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	12	0
		0-0 - 9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	11	0
		0-0 - 9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	11	0
		0-0 - 86894A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	6	0
		0-0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0-0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	2	0
		0-0 - BI145 3/8" BLACK IRON 90 ELL.	6	0
		0-0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		0-0 - SLPCON-40FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UPTO 39' GAP. KIT CONTAINS 42 FEET OF BLACK MG WIRE, 42 FEET OF TAN MG WIRE, 40 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	3	0
		0-0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	9	0
		0-0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	3	0
		0-0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	3	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	12	0
		16 - 16 - OL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	12	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	12	0
		34 - 34 - A0034331 RED COLOR - 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	0

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Owasso 8th Grade Center
13901 East 86th Street North,
Owasso, OK, 74055

DATE: 8/28/2025
DWG.#: 8197441
DRAWN BY: RJH-80
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 5

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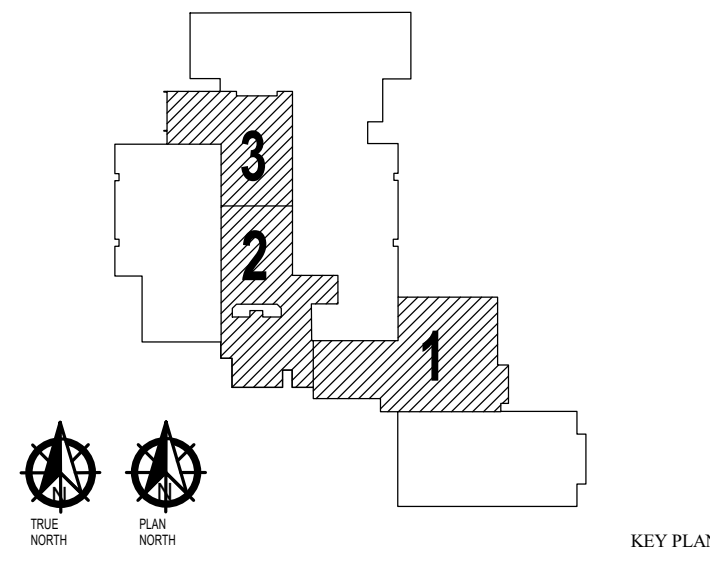


OWASSO
8th GRADE
ADDITION

OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025

PROJECT



KEY PLAN

REVISIONS

11/25/2025

ISSUE DATE

2007 PROJECT NO
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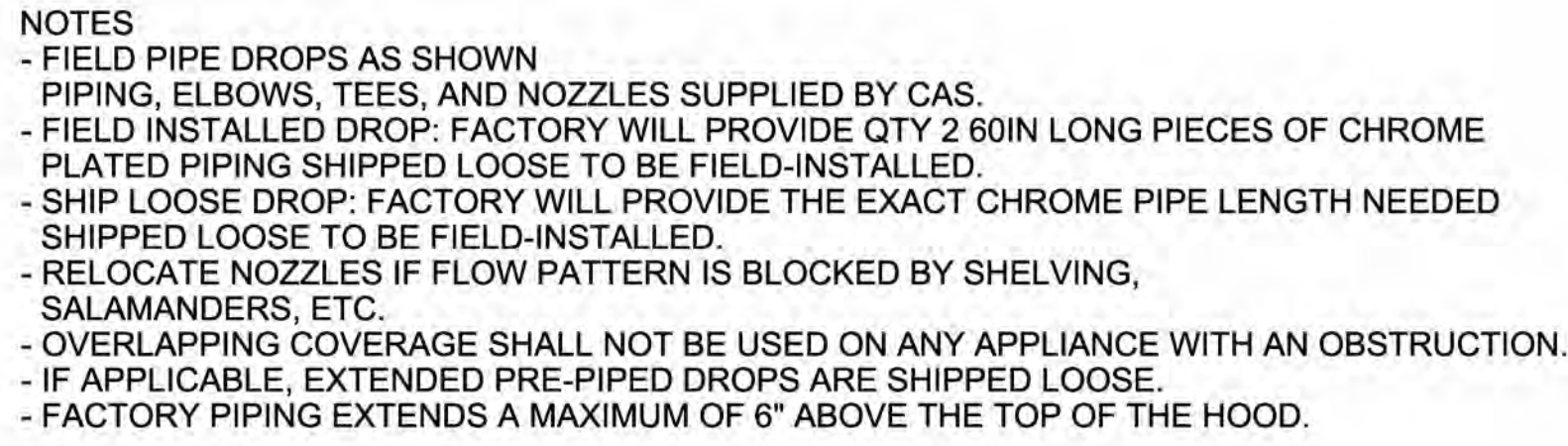
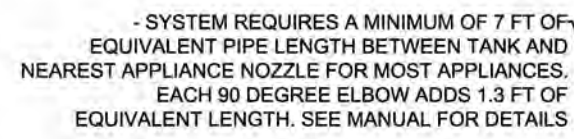
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MECHANICAL
SCHEDULES

M405

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- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 8197441.
JOB NAME: OWASSO 8TH GRADE CENTER.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 37, MAXIMUM FP: 40.
HOOD # 1 10' 11.00" LONG x 66" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND - FIRE CABINET TANK SYSTEM

- 1 4 GALLON TANK.
- 2 PRIMARY ACTUATOR RELEASE.
- 3 SECONDARY ACTUATOR RELEASE.
- 4 PRESSURE SUPERVISION SWITCH.
- 5 PRIMARY HOSE ASSEMBLY.
- 6 SECONDARY HOSE ASSEMBLY.
- 7 REMOTE MANUAL ACTUATION DEVICE.

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www.capllveaire.com

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DWG.#:
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DRAWN BY: RJH-80

SCALE:
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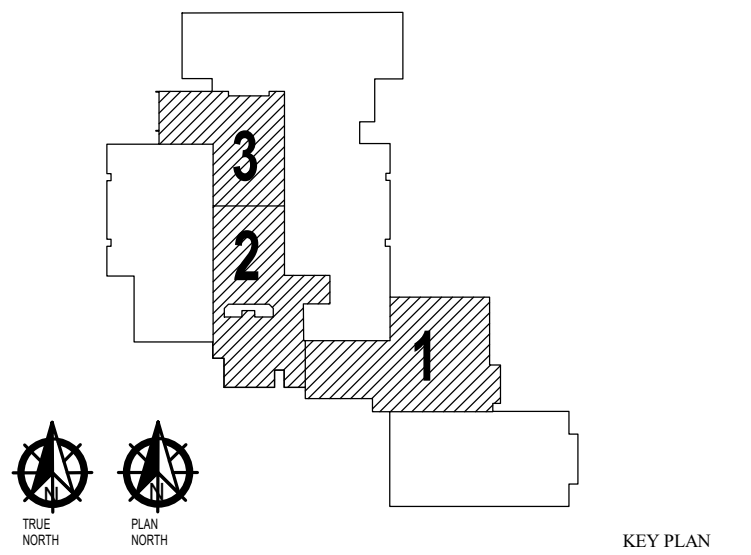
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2025

PROJECT



KEY PLAN

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MECHANICAL SCHEDULES

M406

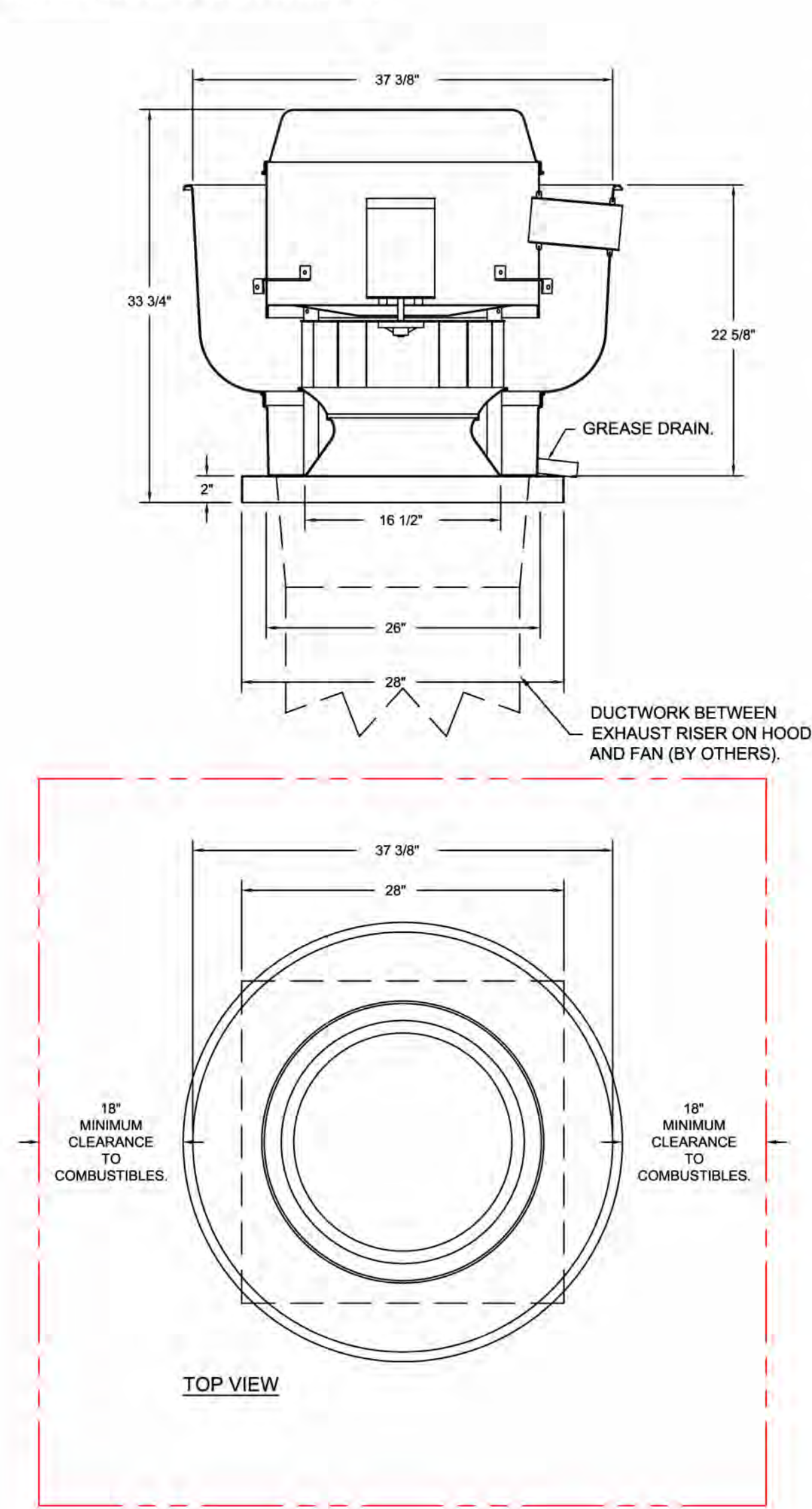
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EXHAUST FAN INFORMATION - JOB#8197441

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL.	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU180HFA	CAPTIVEAIRE	1910	1.500	1176	TEAO-ECM	3.000	1.0350	3	460	6.0	441 FPM	144	14.4
2	KEF-2	1	DU180HFA	CAPTIVEAIRE	1910	1.500	1176	TEAO-ECM	3.000	1.0350	3	460	6.0	441 FPM	144	14.4
3	KEF-3	1	DU180HFA	CAPTIVEAIRE	2125	1.750	1275	TEAO-ECM	3.000	1.3320	3	460	6.0	491 FPM	144	17.1
4	DEF-1	1	DU33HFA	CAPTIVEAIRE	600	0.500	1342	TEAO-ECM	0.333	0.1470	1	115	4.3	297 FPM	68	11.9

FANS #1 (KEF-1), #3 (KEF-3) - DU180HFA EXHAUST FAN



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL782 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

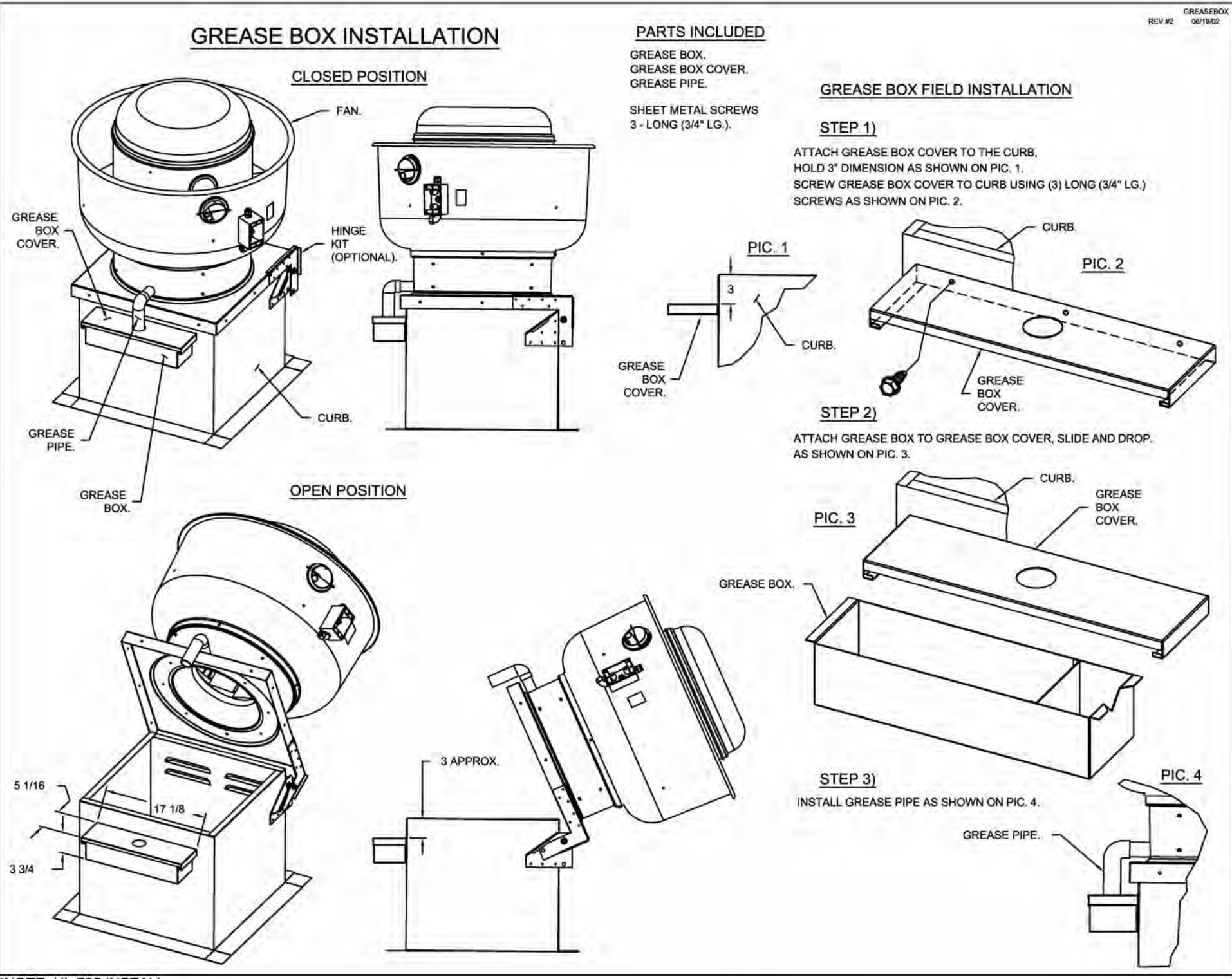
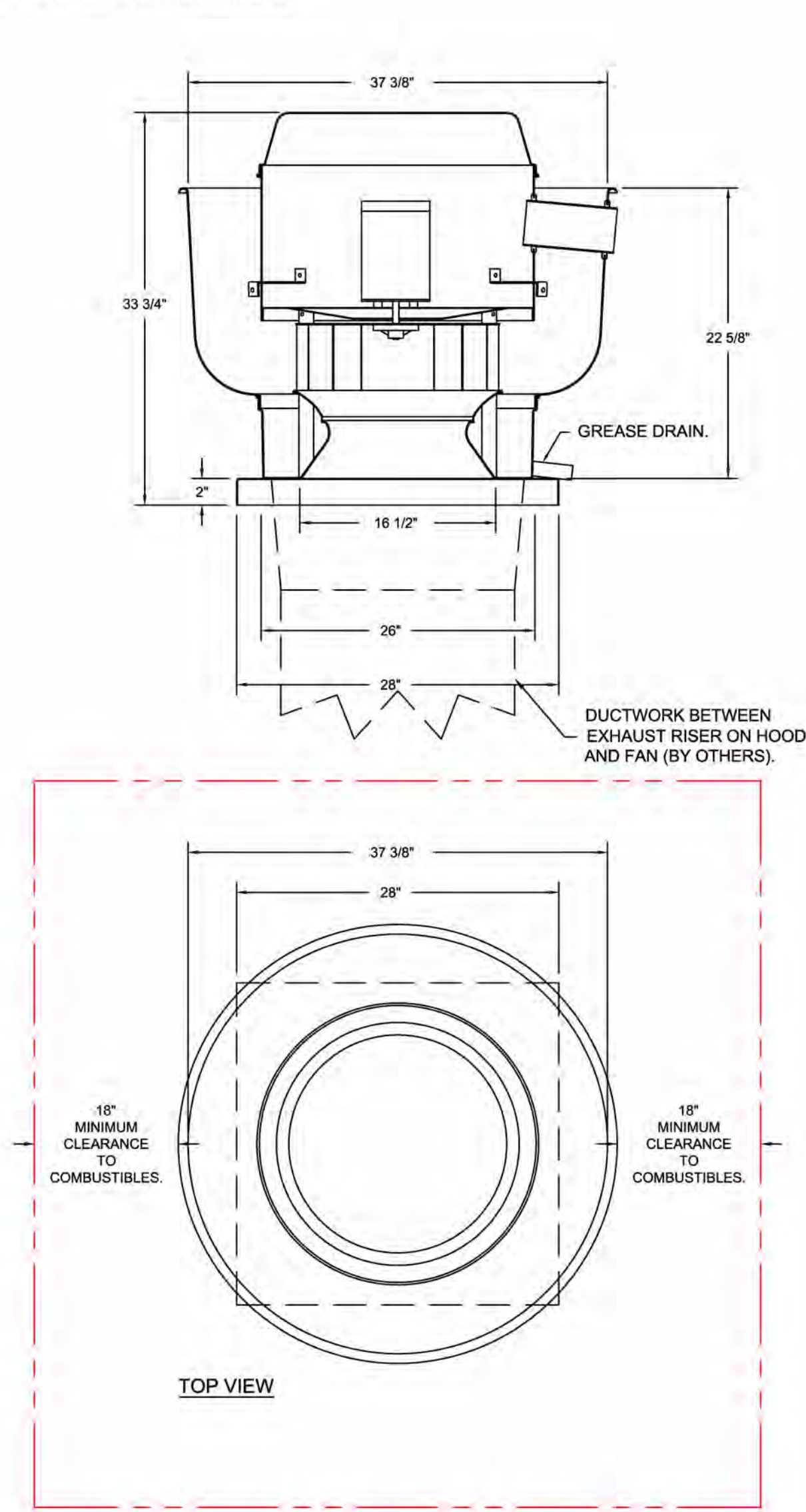
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 800°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS:

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU180HFA.
- INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL - MSC - (TELCO), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

FAN #2 DU180HFA - EXHAUST FAN (KEF-2)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL782 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 800°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS:

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU180HFA.
- INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL - MSC - (TELCO), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

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DRAWN BY: RJH-80
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 8

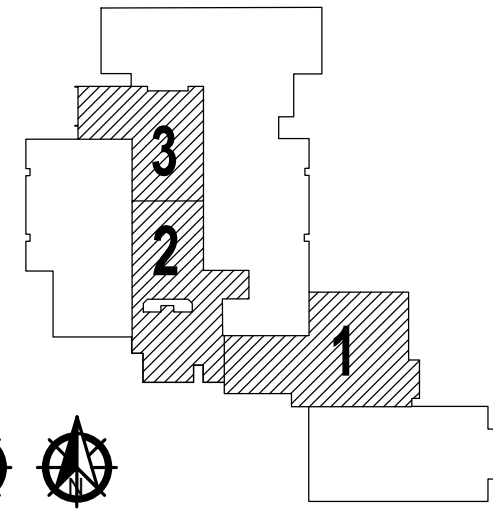
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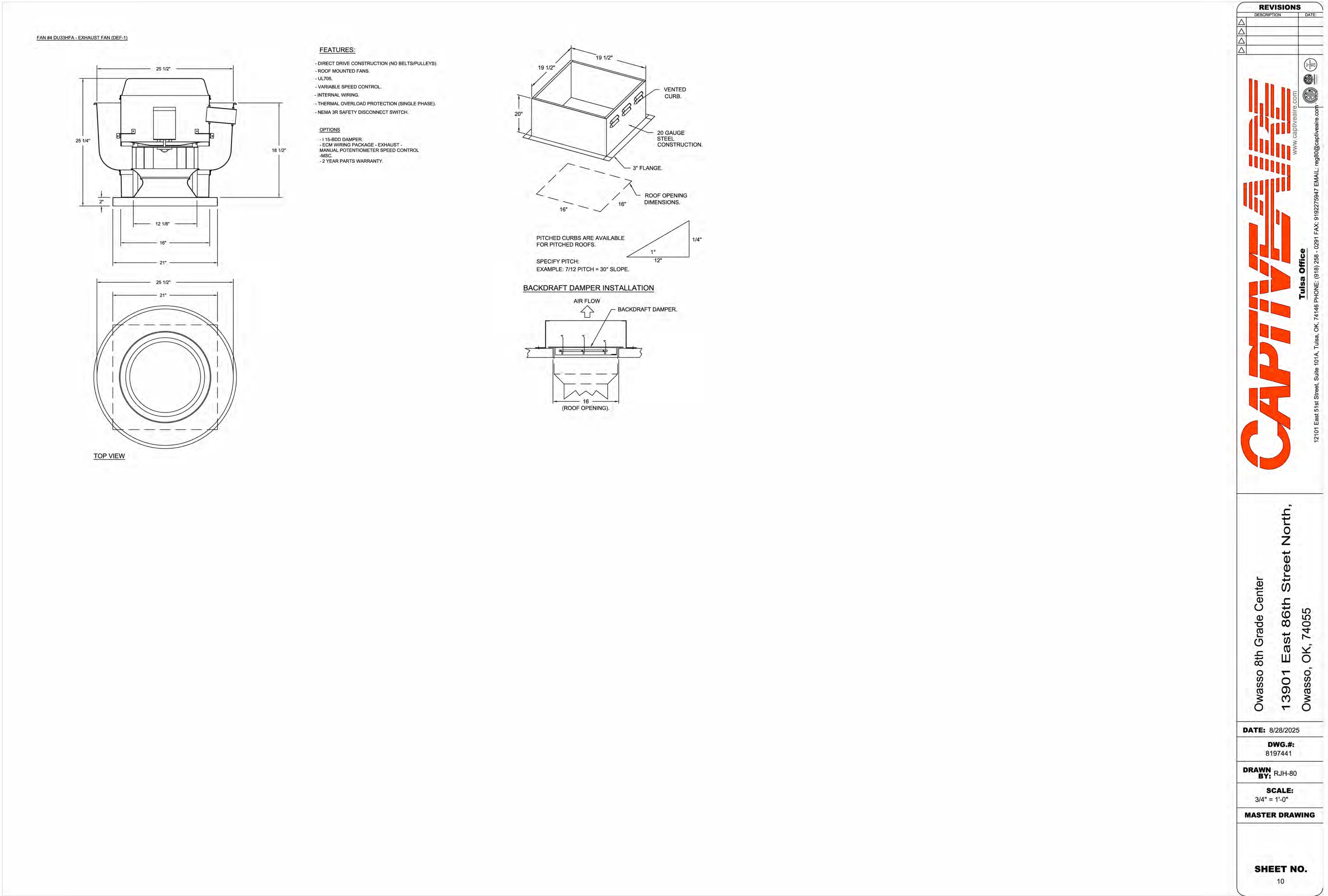
11/25/2025

MECHANICAL
SCHEDULES

M408

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #5	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55
FAN #5	HMI #2 - SPACE	SPACE	AVERAGED	56

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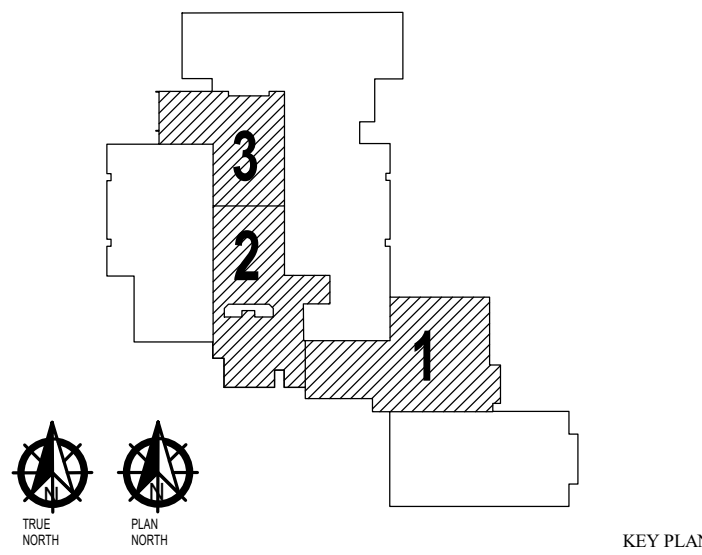


OWASSO 8th GRADE ADDITION

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OWASSO, OK
2025

PROJECT



KEY PLAN

11/25/2025

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2001 PROJECT NO
MDM
EZ

2001 PROJECT NO
MDM
EZ

2001 PROJECT NO
MDM
EZ

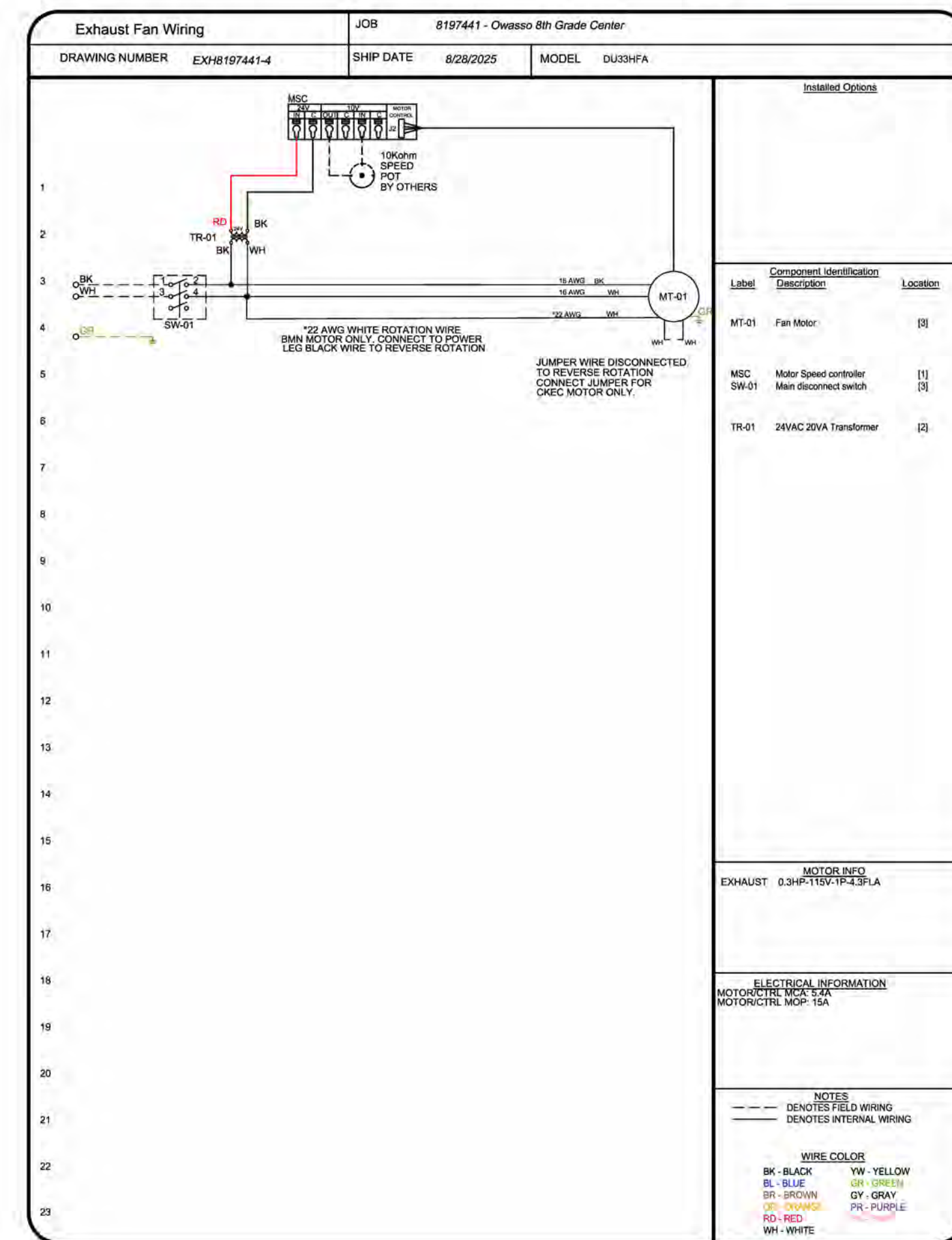
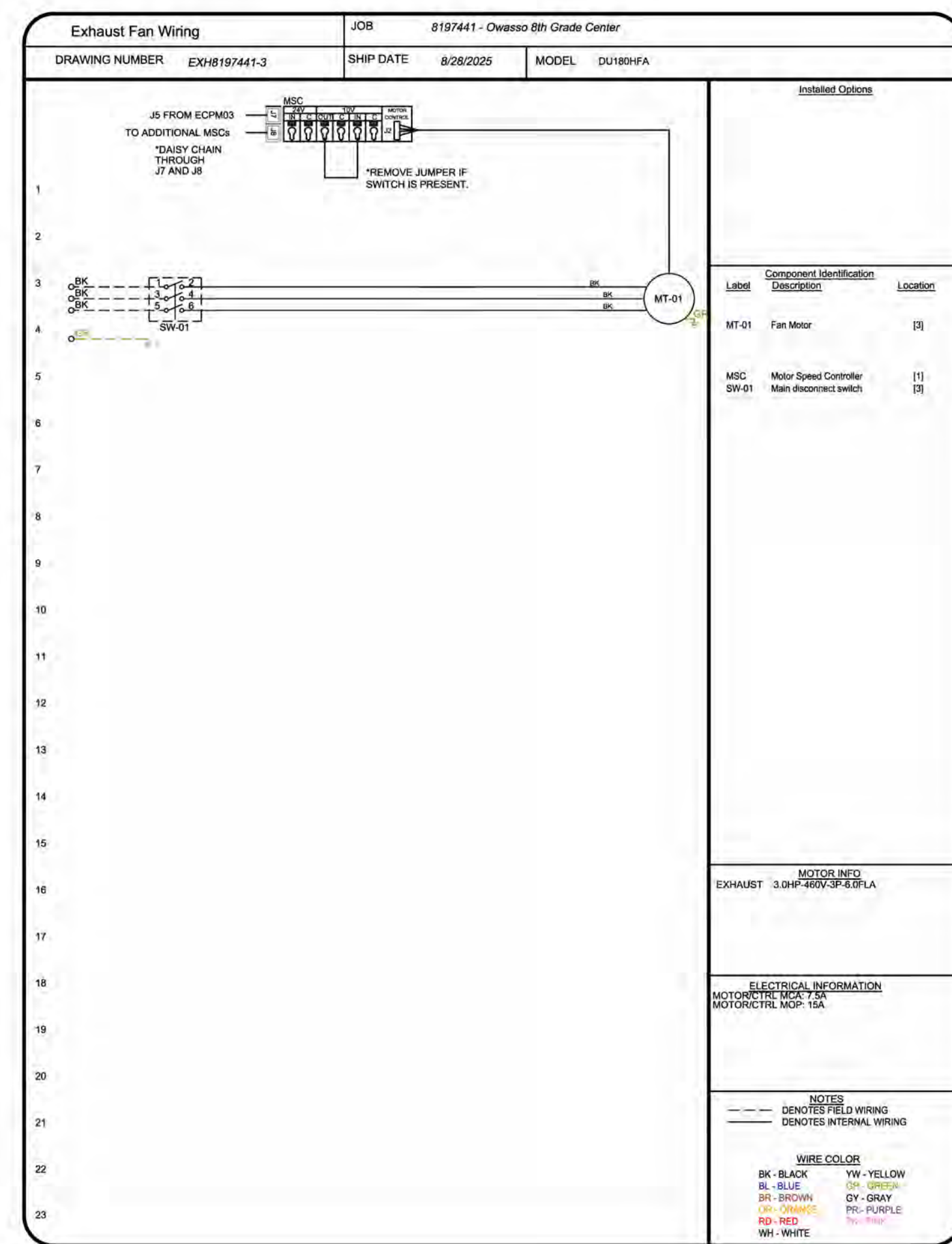
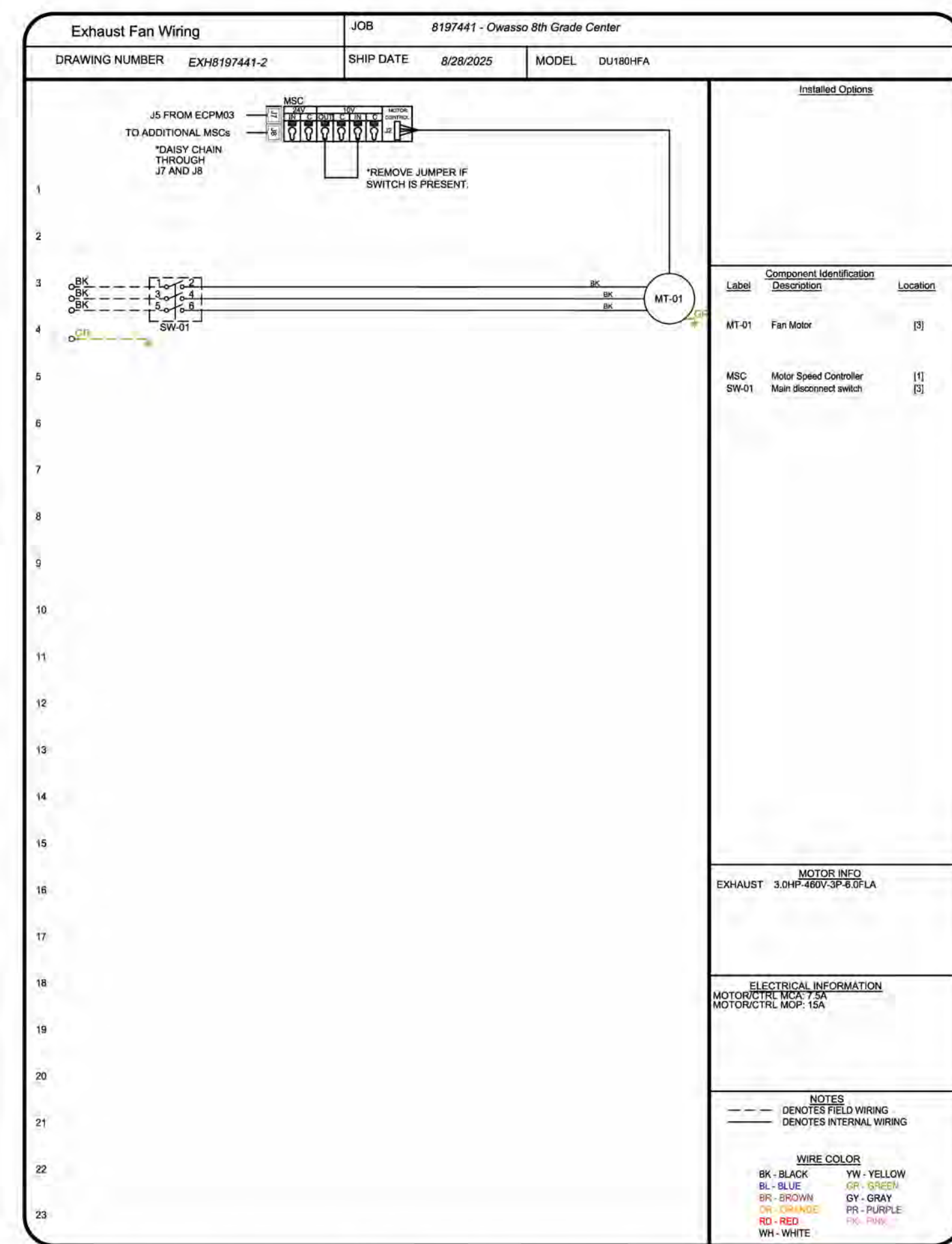
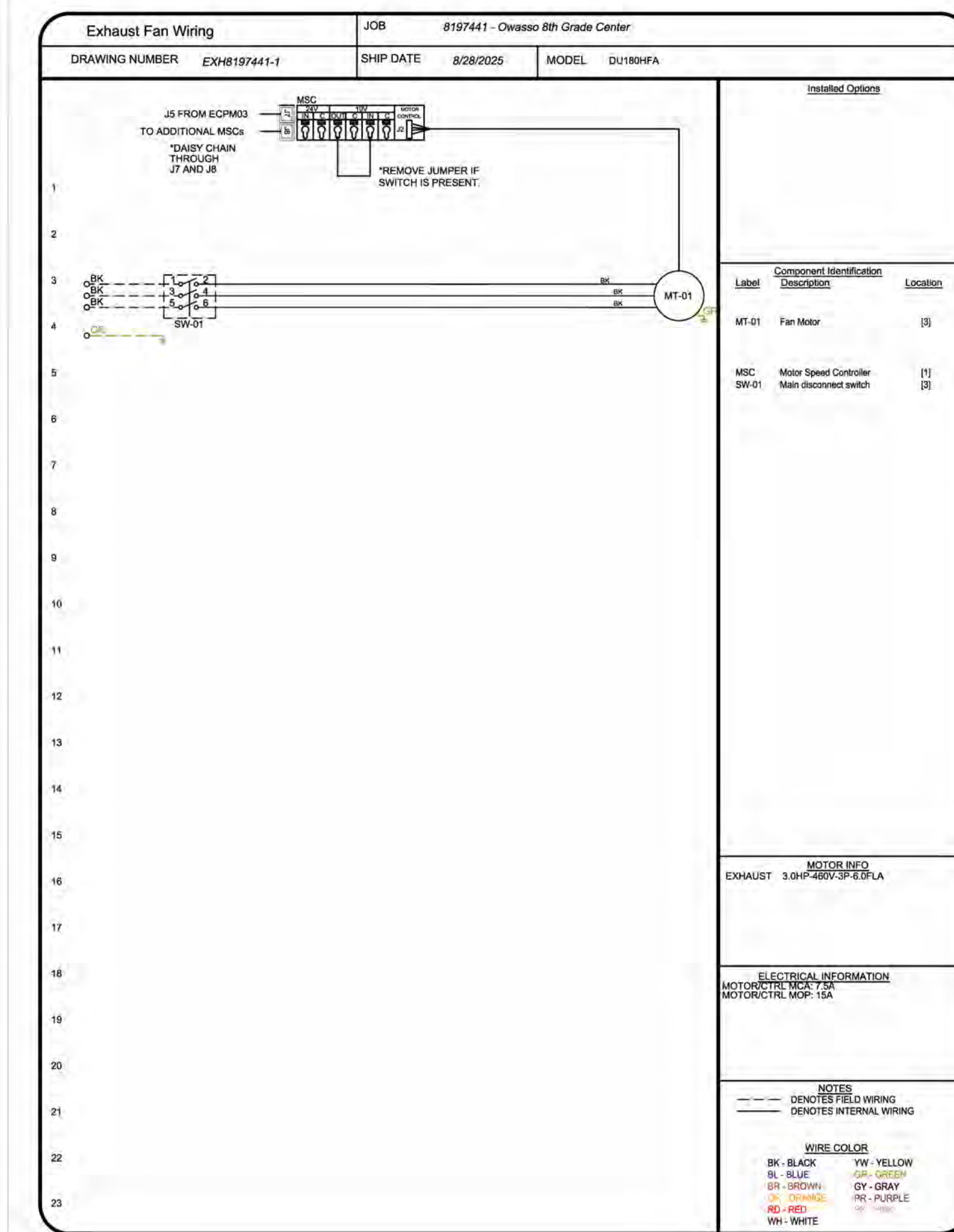
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MECHANICAL
SCHEDULES

M410

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Owasso, OK, 74055

DATE: 8/28/2025

DWG.#:
8197441

DRAWN BY: RJH-H80

SCALE:
3/4" = 1'-0"

MASTER DRAWING

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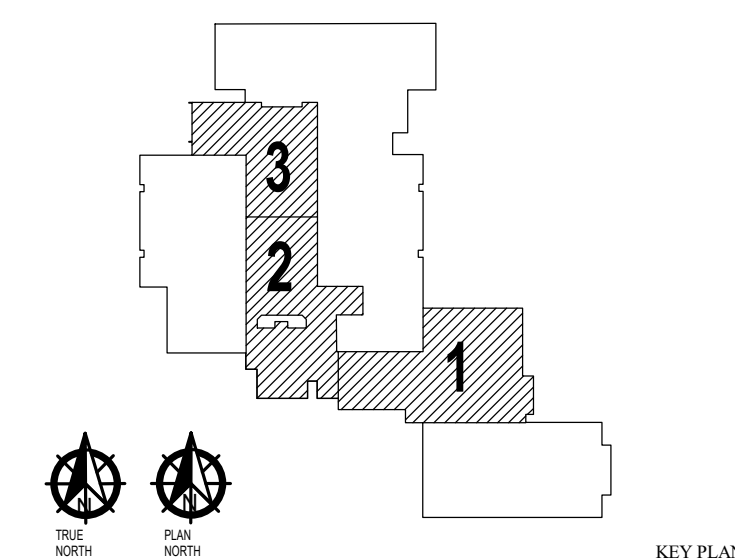
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MECHANICAL SCHEDULES

M411

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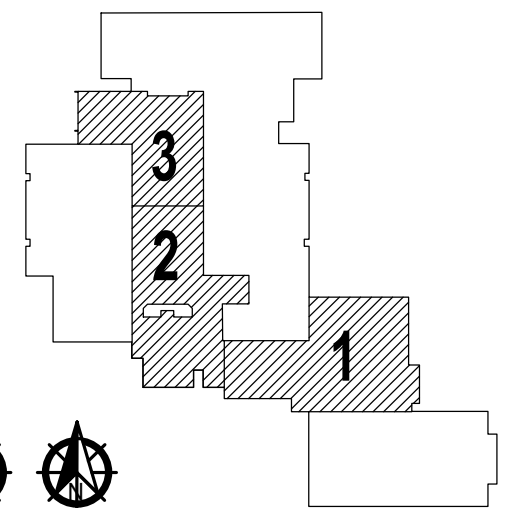
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OWASSO PUBLIC
SCHOOLS

OWASSO, OK
2025



CAPTIVE

Owasso 8th Grade Center
13901 East 86th Street North,
Owasso, OK, 74055

DATE: 8/28/2025

DWG.#:

DRAWN BY: RJH-80

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
14

11/25/2025

DATE

07	PROJECT NO
08	DRAWN BY
09	CHK'D BY

M414

ET TITLE

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[illegible]

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

JOB NO	8197441	MODEL NUMBER	DCV-3111	DRAWING	SCHEMATIC TYPE	DESCRIPTION OF PROJECT
JOB NAME	Owasso 8th Grade Center	JOB DATE	6/28/2025	DRAWN	EOP #1-3	File System #1 TASK ID - 4-DKJ 6020-15P-1

10/1/2023 Rev. 03

WALL MOUNT UTILITY CABINET TANK PROTECTION ELECTRICAL DETAIL

FS-1: MASTER

ELECTRICIAN:
 1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
 2. WIRE ALL FANS PER INCLUDED SCHEMATIC
 3. WIRE SHUNT TRIP BREAKER(S) OPTIONAL
 4. WIRE GAS VALVE APPLANCE KILL SWITCH IF EQUIPPED (OPTIONAL)
 5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (S1 & AZ)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO AZ ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
GAS APPLANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST NOT BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL IF 24 VDC - 2 WIRES & GROUND, N1 TO RED, LSV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND
GAS VALVE	LSV & N1D IF 24 VDC GAS & N1D IF 120 VAC	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	

EXHAUST HOOD

SHUNT TRIP BREAKER (OPTIONAL)
 - 2 WIRES, 120VAC
 - ST TO A1 ON SHUNT TRIP BREAKER
 - NEUTRAL TO AZ ON SHUNT TRIP BREAKER

POWER TO ELECTRIC APPLANCE

ELECTRIC

GAS

COOKING APPLANCE(S)

GAS VALVE POWER
 - 2 WIRES & GROUND
 - 120 VAC, 15 AMP SERVICE
 - WIRE TO H1 AND N1, GROUND
 - POWER MUST NOT ORIGINATE FROM SHUNT TRIP BREAKER

GAS VALVE
 - STRAINER MUST BE INSTALLED UPSTREAM OF VALVE

N1

NOTES: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

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