

BOUNDARY LINE ------ RIGHT OF WAY LINE ————— EASEMENT LINE ===== EXISTING CONCRETE CURB AND GUTTER PROPOSED CONCRETE CURB AND GUTTER — — PROPOSED FIRE LANE STRIPING ----- OHE ----- OVERHEAD ELECTRIC ----- UGE ----- UNDERGROUND ELECTRIC —— GAS —— GAS LINE — **UGT** — UNDERGROUND TELEPHONE —— FO —— UNDERGROUND FIBER OPTIC —— ss —— SANITARY SEWER — 8"W — WATERLINE

LEGEND

BENCHMARK → FIRE HYDRANT

WATER VALVE EX. TELEPHONE PED. EX. WATER METER PIT T EX. TELEPHONE MANHOLE

PROP. WATER METER © EX. SPRINKLER VALVE

EX. ELECT. PEDESTAL

EX. TRAFFIC CONTROL BOX © EX. AUTO SPRINKLER EX. FLAG POLE

Ø EX. POWER POLE

EX. TRAFFIC SIGNAL LIGHT

 $\varphi^{\gamma L}$  EX. YARD LIGHT EX. ELECT. TRANSFORMER © EX. GREASE TRAP EX. ELECT. METER S EX. SS MANHOLE

S PROP. SS MANHOLE EX. AIR CONDITIONER EX. GAS METER ▲ PROP. GAS METER

∮ EX. SIGNAGE P EX. ELECT. MANHOLE **⊕** PROP. LIGHT POLE S EX. STORM MANHOLE

EX. BOLLARD PROP. INLETS (SEE GRADING PLAN FOR TYPE)

VS VERTICAL SEPARATION REQUIREMENT

#### BENCHMARK DATA

BENCHMARK #1 DESC: CONC. SIDEWALK NORTHING: 732420.67 EASTING: 2113951.32 ELEVATION: 1246.12

BENCHMARK #2 DESC: CUT X NORTHING: 732831.70 EASTING: 2113951.35 ELEVATION: 1248.00

VERTICAL DATUM: NAVD 88 OKC GPS MONUMENT

#### GRADING NOTES

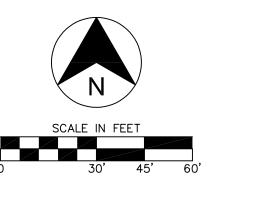
- A. CONTRACTOR SHALL REFER TO THE SITE SPECIFIC GEOTECHNICAL REPORT FOR EXISTING SOIL CONDITIONS, CONSIDERATIONS, AND RECOMMENDATIONS.
- B. CONTRACTOR SHALL REFER TO THE CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE WRITTEN SPECIFICATIONS, CONSTRUCTION DRAWINGS, STORM WATER POLLUTION PLAN, AND GEOTECHNICAL REPORT.
- C. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN HORIZONTAL AND VERTICAL CONTROL, REFERENCE POINTS AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT.
- D. THE CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS/PROPERTY LINES/UTILITIES/DRAINAGE PRIOR TO CONSTRUCTION START.
- E. ALL SITE EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED EXCAVATION.
- GENERAL CONTRACTOR TO PROVIDE A UNIT PRICE FOR REMOVAL AND REPLACEMENT OF SOILS ON THIS SITE SHOULD REMOVAL BE REQUIRED.
- G. ALL WORK NOT CLASSIFIED AS A CONTRACT PAY ITEM SHALL BE CONSIDERED AS INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.
- H. CONTRACTOR SHALL PROVIDE FINAL GRADES THAT DO NOT OBSTRUCT ANY UTILITY ACCESS AND PROVIDE A SMOOTH TRANSITION TO MEET AND MATCH EXISTING GRADES ON ALL
- ADA ROUTES ARE NOT TO EXCEED 1:20 RUNNING SLOPE AND 2% CROSS SLOPE. HANDICAP PARKING AND ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.
- ALL NATURAL GROUND SLOPES SHALL NOT EXCEED 3:1. PAVING SLOPES SHALL NOT EXCEED 8%.
- CONTRACTOR SHALL ENSURE THAT ALL NECESSARY EARTH DISTURBING PERMITS HAVE BEEN ACQUIRED AND MEET THE CONDITIONS/REQUIREMENTS SET FORTH IN THE PERMITS PRIOR TO CONSTRUCTION.
- CONTRACTOR IS REQUIRED TO CALL ONE CALL AS WELL AS THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION/CONSTRUCTION ACTIVITIES TAKE PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS.
- M. THE CONTRACTOR SHALL GRADE SITE TO ENSURE ALL SURFACE WATER DRAINAGE IS AWAY FROM THE BUILDING AND PROVIDES POSITIVE DRAINAGE SO THAT NO STANDING/PONDING WATER TAKES PLACE ON SITE OR ON ADJACENT PROPERTIES.
- N. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE OWNERS DESIGN GUIDELINES AND SPECIFICATIONS, AND WHERE APPLICABLE SHALL MEET THE REQUIREMENTS OF THE GOVERNING/PERMITTING AUTHORITY HAVING JURISDICTION.
- O. THE BUILDING SUBGRADE SHALL BE CONSTRUCTED TO INCLUDE A MINIMUM OF 10 FEET BEYOND THE BUILDING LIMITS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE OWNER.
- P. REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED FLOOR SLAB THICKNESS.
- Q. THE BUILDING PAD SUBGRADE SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING STUDY AND THE CIVIL SPECIFICATIONS.
- R. ESTABLISH FINAL SUBGRADE ELEVATIONS TO ALLOW FOR PAVEMENT/SLAB SECTIONS AS INDICATED ON THE PLANS.
- S. IF CONFLICTS EXIST BETWEEN THE GEOTECHNICAL REPORT AND THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

#### SPOT ELEVATION LEGEND

TC - TOP OF CURB FF - FINISH FLOOR G - GUTTER FG - FINAL GRADE TP - TOP OF PAVEMENT TW - TOP OF WALL HP - HIGH POINT

**BW - BOTTOM OF WALL** LP - LOW POINT NOTE: BW IS BOTTOM OF WALL AT GRADE, NOT SW - SIDEWALK FOOTING

VS VERTICAL SEPARATION REQUIREMENT

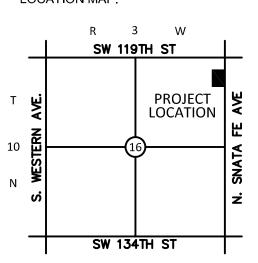






OK CA 5864

LOCATION MAP:



PROJECT:

### HIGHLAND WEST JR. HIGH

901 N. SANTA FE MOORE, OK

PROJECT NUMBER: DRAWING DATE: 01.09.24 ISSUE DATE: 01.09.24



SUBMITTAL:

PERMIT SET

VISIONS:	

01.24.24 CB-5


THESE PLANS AND DRAWINGS ARE NOT TO BE OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT CEDAR CREEK CONSULTING INC. THIS SHEET IS NOT TO BE USED FOR CONSTRUCTION UNLESS THE ISSUE DATE IN THE TITLE BLOCK COINCIDES WITH OR ST DATES THE DRAWING DATE. ANY CHANGES MADE FROM THESE PLANS WITHOUT CONSENT OF CEDAR CREEK CONSULTING INC. ARE CONSULTING OF RESPONSIBILITY FOR ALL CONSEQUENCES ARRIVING OUT OF SUCH CHANGES.

DRAWING TITLE:

**GRADING** PLAN



#### Construction Bulletin # 05

Client: Abla Griffin Partnership

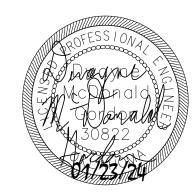
Project Name: Highland West JH STEM

Project Number: 2023-02792-00

January 23, 2024

Requested by: X Owner \_\_\_ Contractor: Salas O'Brien:

To: Mike Abla, Clay Griffin, AGP



This Co	nstruction Bulletin is issued to:
	Offer additional information for clarification or supplemental drawings for layout assistance.
	Request cost and time impact to initiate a change to the Contract Documents. Owner approval is required, do not commence with revisions unless directed in writing. Avoid Work in areas that may be affected by proposed change until approved or rejected.
	Once approved, forward Change Order documentation as required by the Contract Documents.
i	Direct a required change in the Contract Documents. Proceed with change(s) as indicated. Forward Change Order documentation as required by the Contract Documents.
	Response to RFI

Item No.	Description	Attachment
1	Refer to drawings for changes shown in clouds and deltas.	P104
2	Refer to drawings for changes shown in clouds and deltas.	P113
3	Refer to drawings for changes shown in clouds and deltas.	P201

#### **END OF CB-05**

#### **KEYED NOTES**

- 7 PROVIDE CAST IRON PIPE SLEEVE FOR STORM PIPE THRU OR BELOW GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH
- 8 CONNECT NEW 4" SANITARY LINE TO EXISTING SANITARY LINE. INSTALL 4" FLOOR CLEANOUT. FIELD VERIFY INVERT ELEVATION OF EXISTING SANITARY
- 9 CONNECT NEW 3" SANITARY LINE TO EXISTING 2" SANITARY LINE. INSTALL 3" FLOOR CLEANOUT. FIELD VERIFY INVERT ELEVATION OF EXISTING SANITARY LINE.
- 10 PROVIDE CAST IRON PIPE SLEEVE FOR FIRE LINE THRU OR BELOW GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
- COORDINATE INVERT ELEVATION WITH SITE CONTRACTOR 11) CONNECT EXISTING 3" STORM DRAIN LINE TO NEW 8" STORM DRAIN. FIELD VERIFY INVERT ELEVATION OF EXISTING STORM LINE.
- 12) REPLACE EXISTING 6" STORM DRAIN PIPE (CLAY PIPE) WITH NEW 8" STORM DRAIN PIPE INTO THE COURT YARD. APPROXIMATELY 35'-0". FIELD VERIFY LOCATION. COORDINATE REQUIRED DEMOLITION AND NEW INSTALLATION WITH GENERAL CONTRACTOR.

#### **KEYED NOTES**

- 1 PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY PIPE BELOW GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
- 2 INSTALL 4" SANITARY BACKWATER VALVE AND 4" EXTERIOR CLEANOUTS. PROVIDE CONCRETE PAD AT GRADE. SEE DETAIL 4/P501.
- 3 ROUTE 2" SANITARY LINE UP TO 2" AFF AND INSTALL 2x4 FITTING FOR HUB DRAIN. COORDINATE INSTALLATION WITH MC. ROUTE TRAP PRIMER LINE TO HUB DRAIN. MC TO ROUTE FURNACE CONDENSATE DRAIN LINES TO HUB DRAIN. SEE DETAIL1/P501.
- 4 COORDINATE WITH STRUCTURAL FOR ROUTING SANITARY UP TO ABOVE GRADE BEAM AND UP INTO WALL ABOVE.
- 5 INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX—a FOR TRAP PRIMER TO FLOOR DRAIN. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.
- 6 PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY PIPE THRU GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.

#### **GENERAL NOTES**

- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
- REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES.
- PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATION SECTION 22 05 00.
- INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-a FOR TRAP PRIMER TO FLOOR DRAINS. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.

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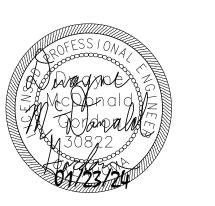
CEDAR CREEK

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KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN MECHANICAL / ELECTRICAL



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**CLASSROOM ADDITION** HIGHLAND WEST JUNIOR HIGH SCHOOL

P104

CONSENT OF AGP.

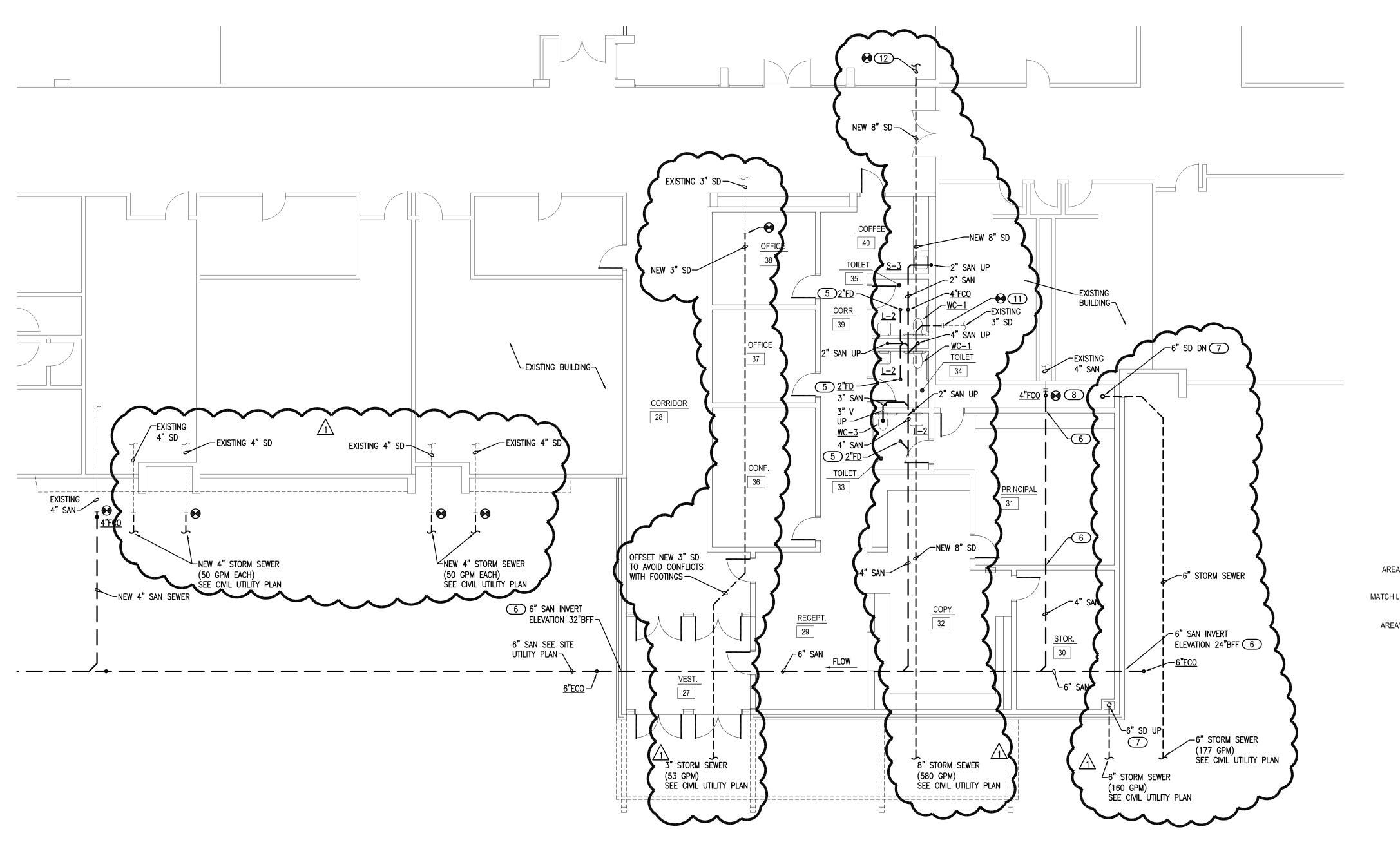


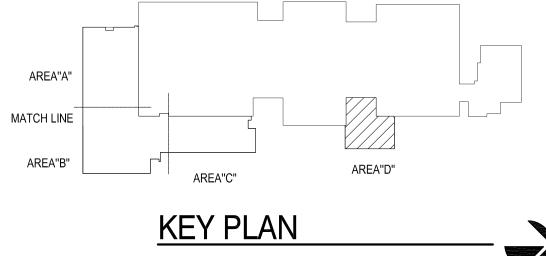
NORTH

2600 Van Buren St., Suite 2635 Norman, OK 73072 Salas O'Brien Registration: CA# 7058 Expiration Date: 6/30/2025

Salas O'Brien Project Number: 2023-02792-00

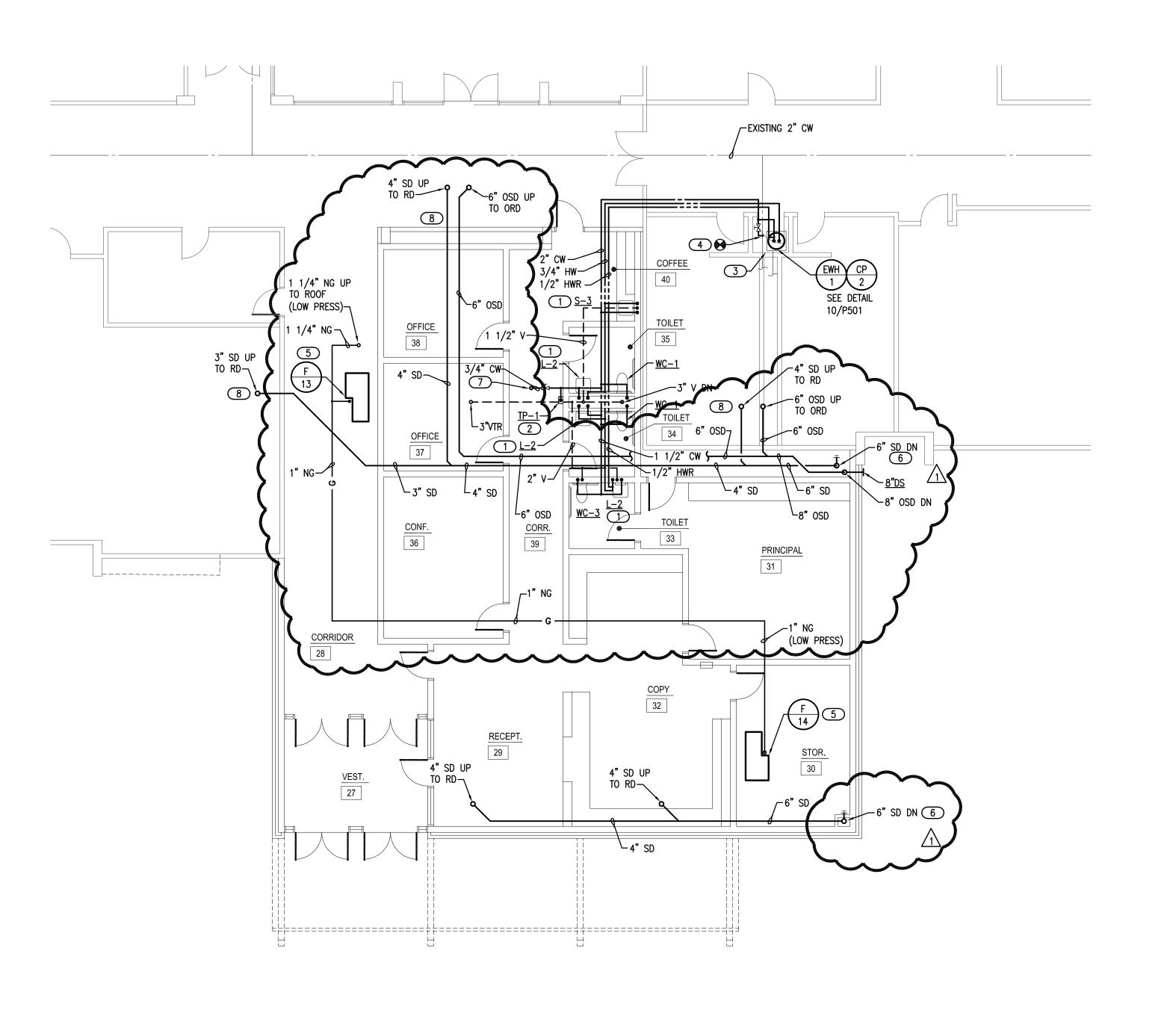
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PLUMBING PLAN - BELOW GRADE - AREA D

SCALE: 1/8" = 1'-0"



PLUMBING PLAN - ABOVE GRADE - AREA D

SCALE: 1/8" = 1'-0"



#### **GENERAL NOTES**

- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- . PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, SENSOR FAUCETS AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
- SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
- 4. FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE
- REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES.
- . PROVIDE ACCESS PANELS FOR ALL VALVES/DEVICES ABOVE HARD CEILINGS AND BEHIND WALLS.
- 7. ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
- . TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX—a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
- . COORDINATE HEIGHT OF EXTERIOR FREEZELESS WALL HYDRANT (FWH) WITH GC AND/OR ARCHITECT. SEAL FIXTURE FLANGE WATERTIGHT.
- 10. INSULATE STORM DRAIN AND SLOPE DOWN AT 1/8" PER FOOT.

### **KEYED NOTES**

- 1 INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW LAVATORY OR SINK. SEE DETAIL 5/P501.
- $\bigcirc$  PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. ROUTE (3) 1/2" LINES FROM DISTRIBUTION UNIT TO FLOOR DRAINS IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
- 3 CONNECT EXISTING HW LINE TO NEW WATER HEATER.
- (4) CONNECT 2" CW WITH BALL VALVE TO EXISTING CW LINE.
- 5 ROUTE 1" NATURAL GAS (LOW PRESSURE) LINE TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, AND FINAL UNIT CONNECTION. COORDINATE
- BELOW FLOOR. INSTALL 4" WALL CLEANOUT AT MINIMUM 20" AFF. SEE
- 8 COORDINATE WITH GC FOR ROUTING STORM DRAIN PIPE THRU EXISTING ROOM ABOVE CEILING AND THRU EXISTING EXTERIOR WALL.

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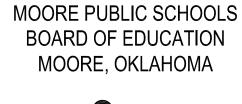
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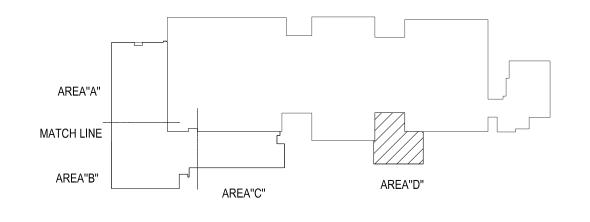


**CLASSROOM ADDITION** HIGHLAND WEST JUNIOR HIGH SCHOOL

P113

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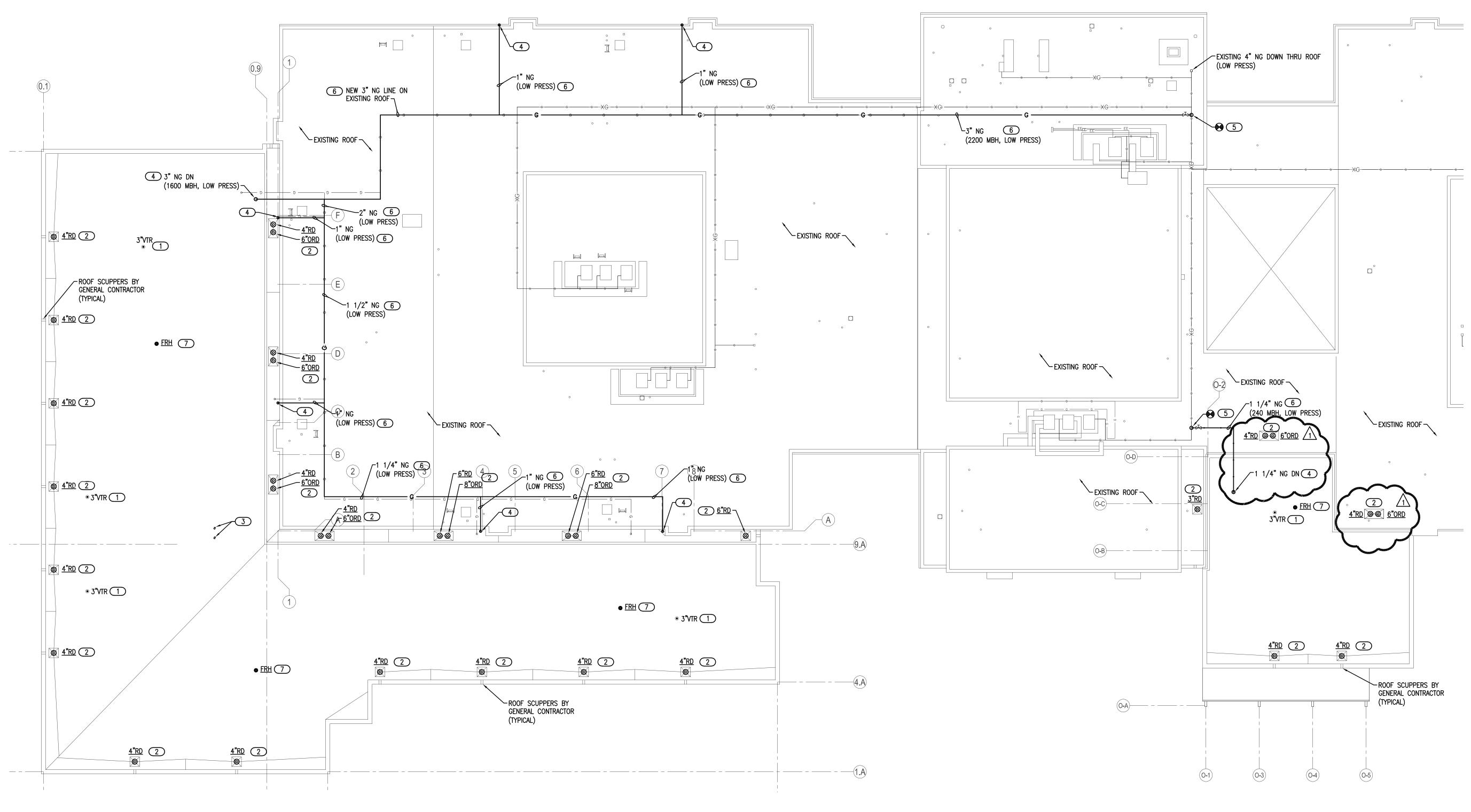






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Salas O'Brien Project Number: 2023-02792-00



PLUMBING PLAN - ROOF

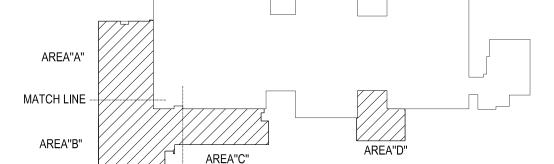
SCALE: 1/16" = 1'-0"

### **KEYED NOTES**

- 1 COORDINATE INSTALLATION OF PLUMBING VENTS WITH ROOFING CONTRACTOR. INSTALL VENT A MINIMUM 10'-0" FROM ANY OPENINGS, EQUIPMENT, INTAKES OR EXHAUST VENTS.
- 2 COORDINATE INSTALLATION OF ROOF DRAIN WITH ROOFING CONTRACTOR.
- 3 COORDINATE INSTALLATION OF 3" GAS WATER HEATER CONCENTRIC VENT WITH ROOFING CONTRACTOR AND PER MANUFACTURER'S RECOMMENDATIONS. INSTALL VENT A MINIMUM 10'-0" FROM ANY OPENINGS, EQUIPMENT, INTAKES, EXHAUST VENTS AND ROOF EDGE.
- 4 ROUTE NATURAL GAS LINE DOWN THRU ROOF. PROVIDE WEATHERPROOF BOOT AT ROOF PENETRATION AND SEAL WATERTIGHT. COORDINATE WITH ROOFING CONTRACTOR FOR ROOF PENETRATION.
- 5 CONNECT NEW NATURAL GAS LINE INTO TOP OF EXISTING GAS LINE. PROVIDE GAS BALL VALVE NEAR CONNECTION POINT.
- 6 ROUTE NATURAL GAS LINE (2 PSI) ON ROOF. PROVIDE MIRO INDUSTRIES MODEL 3-RAH-8 ROOF TOP SUPPORTS OR APPROVED EQUAL. INSTALL AT MAXIMUM OF 10'-0" APART (CENTER TO CENTER) ON ALL 1 1/4" NATURAL GAS PIPING OR LARGER. INSTALL AT 8'-0" APART ON 1" OR 3/4" NATURAL GAS PIPING. INSTALL AT 6'-0" APART ON 1/2" NATURAL GÁS PIPING. REFER TO GENERAL NOTES FOR PAINTING GAS LINE. SEE DETAIL X/P501 FOR PIPE SUPPORT DETAIL.
- 7 COORDINATE INSTALLATION OF FREEZELESS ROOF HYDRANT (FRH) WITH STRUCTURAL AND ROOFING CONTRACTOR.

### **GENERAL NOTES**

- COORDINATE WORK WITH ALL TRADES ON SITE.
- MAINTAIN MINUMUM OF 10'-0" CLEAR BETWEEN EXHAUST AND INTAKE VENTS WITH MECHANICAL EQUIPMENT AND OTHER ROOF OPENINGS.
- 3. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- ALL ABOVE GRADE EXTERIOR NATURAL GAS PIPE SHALL BE CLEANED AND DEGREASED PRIOR TO BEING PRIMED THEN PAINTED YELLOW WITH WEATHER RESISTANT ZINC RICH PAINT.
- PIPE IDENTIFICATION SHALL BE THE WORD "NATURAL GAS" IN BLACK LETTERS AT 5 FT INTERVALS USING PLASTIC PIPE MARKERS OR STENCILED PAINTED LETTERS.
- ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.



**KEY PLAN** 





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