

PLUMBING LEGEND

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER (POTABLE)
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	DRAIN WATER, MISCELLANEOUS DRAINAGE
	FOUNDATION DRAIN
	NATURAL GAS
	OVERFLOW DRAIN
	PUMP DISCHARGE
	RELIEF VENT
	SANITARY ABOVE FLOOR
	SANITARY BELOW FLOOR
	SANITARY GREASE
	STORM DRAIN
	VENT

COMPONENTS AND SPECIALTIES

SYMBOL	DESCRIPTION
	BACKWATER VALVE
	BACKFLOW PREVENTER (DUAL CHECK TYPE)
	BACKFLOW PREVENTER (REDUCED PRESSURE TYPE)
	CLEAN OUT (WALL/PIPE)
	CLEAN OUT (FLOOR)
	COLD WATER INTERIOR HOSE BIBB
	EXTERIOR WALL HYDRANT (FREEZE PROOF)
	FLOOR DRAIN
	FLOOR DRAIN WITH TRAP PRIMING LINE
	FLOOR SINK
	ROOF DRAIN
	ROOF OVERFLOW DRAIN
	WATER METER

RISER DIAGRAM COMPONENTS AND SPECIALTIES

SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER
	SHOCK ARRESTER
	VACUUM BREAKER
	VENT THROUGH ROOF
	TRAP ARM
	URINAL/WATER CLOSET (WALL MOUNTED)
	URINAL/WATER CLOSET (FLOOR MOUNTED)
	FLOOR/ROOF DRAIN
	WALL/PIPE CLEANOUT
	FLOOR CLEANOUT

EQUIPMENT DESIGNATIONS

DESIGNATION	DESCRIPTION
BV-X	BALANCING VALVE DESIGNATION
ET-X	EXPANSION TANK DESIGNATION
FD-X	FLOOR DRAIN DESIGNATION
FS-X	FLOOR SINK DESIGNATION
P-X	PLUMBING FIXTURE DESIGNATION
RCP-X	RECIRCULATING PUMP DESIGNATION
RD-X	ROOF/OVERFLOW DRAIN DESIGNATION
SP-X	SUMP PUMP DESIGNATION
WH-X	WATER HEATER DESIGNATION

RISER DESIGNATIONS

SYMBOL	DESCRIPTION
	DOMESTIC WATER RISER DESIGNATION (CW, HW, HWR) RISER NUMBER
	SANITARY/VENT RISER DESIGNATION RISER NUMBER
	STORM WATER RISER DESIGNATION RISER NUMBER

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	PIPE DROP
	PIPE RISE
	PIPE CAP
	BRANCH TAKE OFF
	PIPE DROP TEE
	PIPE RISE TEE
	SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR TYPE)
	BUTTERFLY VALVE
	BALANCING VALVE (WITH MEMORY STOP)
	AUTOFLOW CONTROL VALVE
	CHECK VALVE
	OUTSIDE STEM AND YOKE VALVE
	SAFETY RELIEF VALVE
	STRAINER
	STRAINER WITH BLOWDOWN VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	BALL VALVE
	SHUTOFF VALVE COCK
	GLOBE VALVE
	UNION
	PIPE FLANGE
	ECCENTRIC REDUCER (FLAT ON BOTTOM)
	ECCENTRIC REDUCER (FLAT ON TOP)
	CONCENTRIC REDUCER
	HOSE END DRAIN VALVE
	SIGHT GLASS
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	PRESSURE GAUGE WITH BALL VALVE
	THERMOMETER
	PRESSURE/TEMPERATURE PLUG
	FLOW ARROW
	OPEN FUNNEL DRAIN
	TRENCH DRAIN

GENERAL SYMBOLS

LINETYPE SYMBOLS

DESIGNATION	DESCRIPTION
	DEMOLITION WORK (SHOWN ON DEMOLITION PLANS)
	EXISTING WORK
	FUTURE WORK
	NEW WORK
	MATCHLINE
	PART PLAN DESIGNATION

REFERENCE SYMBOLS

DESIGNATION	DESCRIPTION
	FLOOR PLAN NUMBER PARTIAL FLOOR PLAN NUMBER ELEVATION = LETTER DETAIL = NUMBER
	SHEET NUMBER ON WHICH THE PARTIAL PLAN, ELEVATION OR DETAIL IS DRAWN
	SHEET NUMBER WHERE PARTIAL PLAN, ELEVATION OR DETAIL IS TAKEN FROM
	SECTION LETTER
	SHEET NUMBER ON WHICH THE SECTION IS DRAWN
	SHEET NUMBER WHERE THE SECTION IS TAKEN FROM
	PIPE CONTINUATION DESIGNATION
	SHEET FOR CONTINUATION, SHEET COORDINATES OR PIPE CONTINUATION DESIGNATION LETTER
	SYSTEM CONTINUATION NOTES
	NORTH ARROW
	POINT OF CONNECTION TO EXISTING
	POINT OF DISCONNECTION

TEXT SYMBOLS

SYMBOL	DESCRIPTION
&	AND
@	AT
°F	DEGREE(S) FAHRENHEIT
°C	DEGREE(S) CELSIUS
ø	DIAMETER, PHASE
/	DIVIDE BY, PER
\$	DOLLAR
=	EQUALS, EQUAL TO
x'	FEET, FOOT
>	GREATER THAN
≥	GREATER THAN OR EQUAL TO
x"	INCH(ES)
<	LESS THAN
≤	LESS THAN OR EQUAL TO
-	MINUS
x	MULTIPLY BY, BY
#	NUMBER, POUND
%	PERCENT
+	PLUS
±	PLUS OR MINUS

PLUMBING LOAD SUMMARY

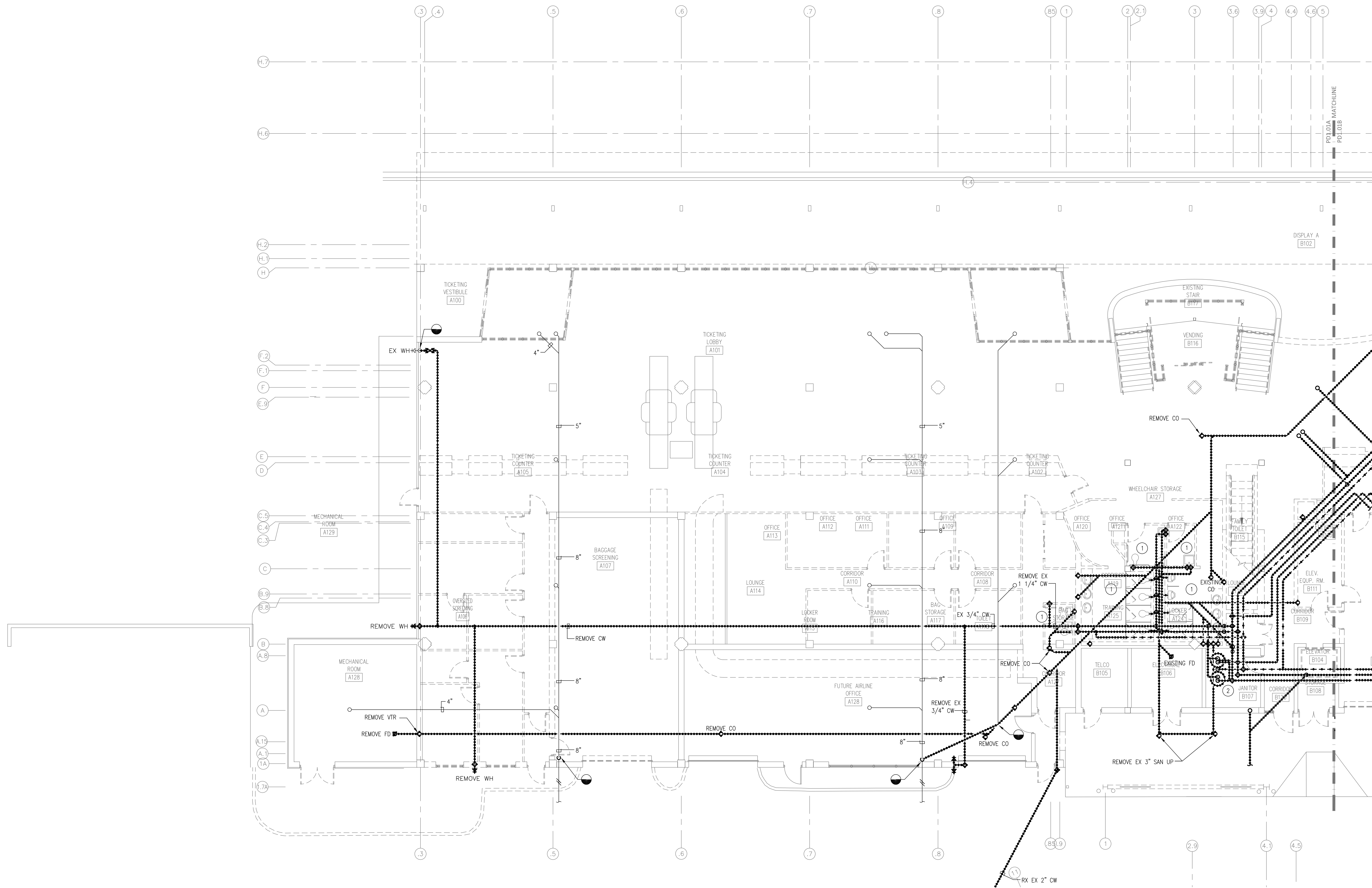
SERVICE:	FIXTURE UNITS	GPM	PIPE SIZE
SANITARY	252 DFU	-	SIZE SHOWN ON PLANS AND SLOPE @ 1/8" PER FT
DOMESTIC WATER:			
COLD WATER	458 FIXTURE UNITS	269	4"
HOT WATER	73 FIXTURE UNITS	73	2"
TOTAL WATER	531 FIXTURE UNITS	-	4" MAIN



NOTE: THIS IS A STANDARD ABBREVIATION LIST.  
SOME ABBREVIATIONS MAY NOT APPEAR ON THE  
ACCOMPANYING DRAWINGS.

A	COMPRESSED AIR	FOT	FUEL OIL TRANSFER	OED	OPEN ENDED DUCT
AAV	AUTOMATIC AIR VENT	FOV	FUEL OIL VENT	OS&Y	OUTSIDE STEM AND YOKE
ACV	AUTOMATIC CONTROL VALVE	FPM	FEET PER MINUTE		
AD	ACCESS DOOR, AREA DRAIN	FPS	FEET PER SECOND	P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
AF	ANTIFREEZE	FS	FLOW SWITCH	PA	PLANT AIR
AFF	ABOVE FINISHED FLOOR	FT	FOOT, FEET	PC	PUMPED CONDENSATE
AHU	AIR HANDLING UNIT	FWR	FEED WATER RETURN	PCR	PUMPED CONDENSATE RECIRCULATION
AR	ARGON GAS	FWS	FEED WATER SUPPLY	PCHR	PRIMARY CHILLED WATER RETURN
ATC	AUTOMATIC TEMPERATURE CONTROL			PCHS	PRIMARY CHILLED WATER SUPPLY
		G	NATURAL GAS	PCWR	PROCESS COOLING WATER RETURN
BAS	BUILDING AUTOMATION SYSTEM	GHR	GLYCOL HEATING RETURN	PCWS	PROCESS COOLING WATER SUPPLY
BBD	BOILER BLOWDOWN	GHS	GLYCOL HEATING SUPPLY	PD	PRESSURE DROP, PUMP DISCHARGE
BCWR	BEARING COOLING WATER RETURN	GPH	GALLONS PER HOUR	PGR	PROCESS GLYCOL WATER RETURN
BCWS	BEARING COOLING WATER SUPPLY	GPM	GALLONS PER MINUTE	PGS	PROCESS GLYCOL WATER SUPPLY
BDD	BACKDRAFT DAMPER	GR	AUTOMOTIVE LUBRICATION PIPING	PH	PHASE
BFP	BACKFLOW PREVENTER			PHR	PRIMARY HEATING RETURN
BHP	BRAKE HORSEPOWER	H	HIGH	PHS	PRIMARY HEATING SUPPLY
BMS	BUILDING MANAGEMENT SYSTEM	HB	HOSE BIBB	PIV	POST INDICATING VALVE
BO	BLOW OFF	HED	HOSE END DRAIN VALVE	PPH	POUNDS PER HOUR
BTU	BRITISH THERMAL UNIT	HP	HORSEPOWER	PRV	PRESSURE REDUCING VALVE, PRESSURE REGULATING VALVE
BTUH	BRITISH THERMAL UNIT PER HOUR	HPR	HIGH PRESSURE STEAM RETURN	PSI	POUNDS PER SQUARE INCH
		HPS	HIGH PRESSURE STEAM SUPPLY	PSIG	POUNDS PER SQUARE INCH GAUGE
		HR	HEATING WATER RETURN		
*C	DEGREE(S) CELSIUS	HRR	HEAT RECOVERY RETURN	RA	RETURN AIR, RELIEF AIR
CA	CONTROL AIR	HRS	HEAT RECOVERY SUPPLY	RD	REFRIGERANT DISCHARGE
CBD	CONTINUOUS BLOWDOWN	HS	HEATING WATER SUPPLY	RH	RELATIVE HUMIDITY
CC	CAMPUS CONDENSATE	HT	HEIGHT	RHR	REHEAT WATER RETURN
CCMS	CENTRAL CONTROL AND MONITORING SYSTEM	HTHR	HIGH TEMPERATURE HEATING WATER RETURN	RHS	REHEAT WATER SUPPLY
CD	CONDENSATE DRAIN	HTHS	HIGH TEMPERATURE HEATING WATER SUPPLY	RL	REFRIGERANT LIQUID
CF	CHEMICAL FEED	HW	HOT WATER (PLUMBING)/HEATING WATER (MECHANICAL)	ROR	REVERSE OSMOSIS WATER RETURN
CFM	CUBIC FEET PER MINUTE	HWR	HOT WATER RECIRCULATION	ROS	REVERSE OSMOSIS WATER SUPPLY
CHR	CHILLED WATER RETURN	HZ	HERTZ	RPM	REVOLUTIONS PER MINUTE
CHS	CHILLED WATER SUPPLY			RS	REFRIGERANT SUCTION
CHW	CHILLED WATER	IA	INSTRUMENT AIR	RV	RELIEF VENT, REFRIGERANT VENT
CO	CLEANOUT	ICW	INDUSTRIAL COLD WATER	RX	REMOVE EXISTING
CO2	CARBON DIOXIDE	IHW	INDUSTRIAL HOT WATER		
CS	CLEAN STEAM	IHR	INDUSTRIAL HOT WATER RECIRCULATION	SA	SUPPLY AIR
CW	COLD WATER, CITY WATER	IN	INCH, INCHES	SAN	SANITARY, SOIL, WASTE
CWR	CONDENSER WATER RETURN	INV EL	INVERT ELEVATION	SCHR	SECONDARY CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY			SCHS	SECONDARY CHILLED WATER SUPPLY
		KW	KILOWATTS	SD	STORM DRAIN, SMOKE DETECTOR
D	DEEP, DRAIN WATER			SF	SQUARE FOOT
DB	DECIBEL, DRY BULB	L	LONG, LENGTH	SHR	SECONDARY HEATING WATER RETURN
DDC	DIRECT DIGITAL CONTROL	LA	LABORATORY AIR	SHS	SECONDARY HEATING WATER SUPPLY
DHR	DISTRIBUTION HEATING WATER RETURN	LAT	LEAVING AIR TEMPERATURE	SL	SOUND LINING
DHS	DISTRIBUTION HEATING WATER SUPPLY	LBS	POUNDS	SP	STATIC PRESSURE
DIR	DEIONIZED WATER RETURN	LBS/HR	POUNDS PER HOUR	SPR	SPRINKLER LINE
DIS	DEIONIZED WATER SUPPLY	LN	LIQUID NITROGEN	SS	STAINLESS STEEL
DL	DOOR LOUVER	LP	LIQUID PROPANE	SQ FT	SQUARE FOOT
DN	DOWN	LPG	LIQUID PETROLEUM GAS	SW	SOFT WATER
DSP	DRY SPRINKLER PIPE	LPR	LOW PRESSURE STEAM RETURN		
DTR	DUAL TEMPERATURE RETURN	LPS	LOW PRESSURE STEAM SUPPLY	ΔT	TEMPERATURE DIFFERENCE
DTS	DUAL TEMPERATURE SUPPLY	LV	LABORATORY VENT, LABORATORY VACUUM	TS	TAMPER SWITCH
DW	DISTILLED WATER	LW	LABORATORY WASTE	TSP	TOTAL STATIC PRESSURE
		LWT	LEAVING WATER TEMPERATURE	TWR	TEMPERED WATER RETURN
EA	EXHAUST AIR			TWS	TEMPERED WATER SUPPLY
EAT	ENTERING AIR TEMPERATURE	MA	MEDICAL AIR	TW	TREATED WATER
EJ	EXPANSION JOINT	MAV	MANUAL AIR VENT	TYP	TYPICAL
EMS	ENERGY MANAGEMENT SYSTEM	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
ESP	EXTERNAL STATIC PRESSURE	MCC	MOTOR CONTROL CENTER	UCD	UNDERCUT DOOR
ETC	ETCETERA	MO	MOTOR OIL PIPING	UL	UNDERWRITERS LABORATORIES
EVAC	GAS EVACUATION	MOD	MOTOR OPERATED DAMPER		
EWT	ENTERING WATER TEMPERATURE	MPR	MEDIUM PRESSURE STEAM RETURN	V	VACUUM, VOLTS
EX	EXISTING	MPS	MEDIUM PRESSURE STEAM SUPPLY	VD	VOLUME DAMPER
		MV	MEDICAL VACUUM	VFD	VARIABLE FREQUENCY DRIVE
*F	DEGREE(S) FAHRENHEIT			VPD	VACUUM PUMP DISCHARGE
F	FIRE LINE	N	NITROGEN	VSD	VARIABLE SPEED DRIVE
FC	FLEXIBLE CONNECTION	NA	NOT APPLICABLE	VTR	VENT THROUGH ROOF
FD	FIRE DAMPER, FOUNDATION DRAIN	NC	NOISE CRITERIA, NORMALLY CLOSED		
FDV	FIRE DEPARTMENT VALVE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	W	WATTS, WIDE
FF	FINISHED FLOOR	NO	NORMALLY OPEN, NITROUS OXIDE	WB	WET BULB
FFE	FINISHED FLOOR ELEVATION	NPSH	NET POSITIVE SUCTION HEAD	WC	WATER COLUMN
FIN/FT	FINS PER FEET			WG	WATER GAUGE
FIN/INCH	FINS PER INCH	O	OXYGEN	WH	WALL HYDRANT
FM	FLOWMETER	OA	OUTSIDE AIR	WWF	WELDED WIRE FABRIC
FMF	FLOWMETER FITTING	OD	OVERFLOW DRAIN	WWM	WELDED WIRE MESH
FOF	FUEL OIL FILL				
FOO	FUEL OIL OVERFLOW				
FOR	FUEL OIL RETURN				
FOS	FUEL OIL SUPPLY				



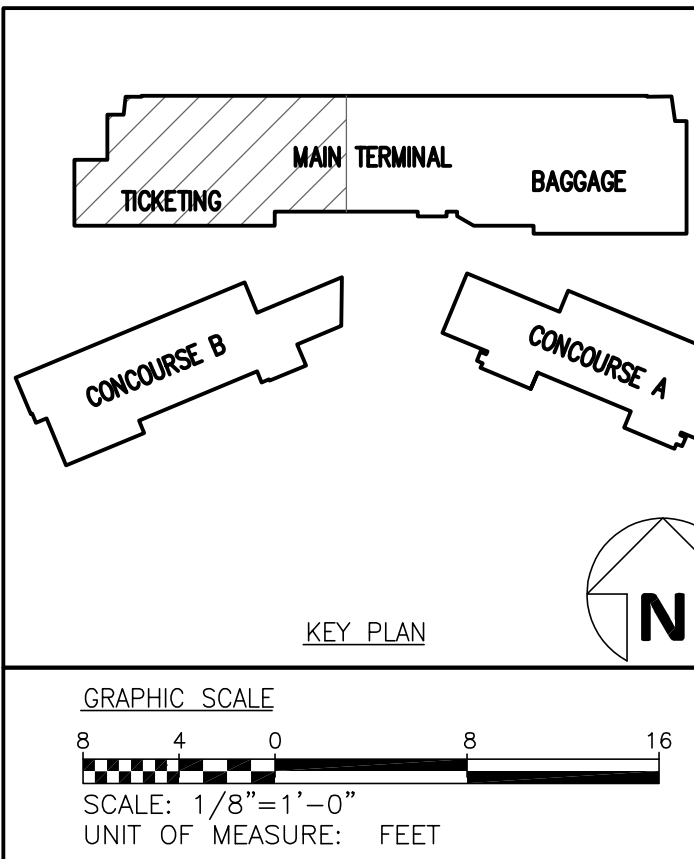


GENERAL NOTES:

- A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE PERFORMED DURING HOURS AS DIRECTED BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.
- B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.
- C. ALL EXISTING WIRING, EQUIPMENT, CONDUITS, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO REMAIN THE PROPERTY OF THE OWNER, SHALL BE DELIVERED TO HIM ON THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
- D. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF PANELBOARDS, LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL CONDUITS, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.
- E. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.
- F. WHEN EXISTING MECHANICAL AND ELECTRICAL WORK IS REMOVED, ALL CONDUITS, WIRING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.
- G. EXISTING WIRING & CONDUIT NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK TO PANELBOARD UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, CONDUIT, ETC.. UNDERGROUND CONDUIT TO BE REMOVED SHALL BE LIMITED TO PIPING IN THE AREAS OCCUPIED BY THE NEW CONSTRUCTION AND FIVE FEET (5') BEYOND THE NEW CONSTRUCTION. EXISTING CONDUIT INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE SHALL BE CAPPED, PLUGGED, OTHERWISE SEALED. NO EXISTING CONDUIT SHALL BE LEFT OPEN END.
- H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT, CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.
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- J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND HATCHED" IS EXISTING AND SHALL BE DEMOLISHED.
- K. REMOVE ALL VENT PIPING IN THE MAIN TERMINAL.

DRAWING NOTES:

- ① DISCONNECT AND REMOVE ALL PLUMBING FIXTURES AND ALL ASSOCIATED PIPING AND CONNECTIONS.
- ② DISCONNECT AND REMOVE WATER HEATERS ALONG WITH ASSOCIATED WIRING AND PIPING AS INDICATED.



Fayetteville Regional Airport – Airline Terminal Improvements Part 2

FIRST FLOOR PLAN – AREA A – PLUMBING  
DEMOLITION

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS

REVISIONS

SHEET NUMBER

PD1.01A

GORDON  
JOHNSON  
Architecture

300 West Street, Suite 1  
Fayetteville, NC 28101  
(910) 271-0000  
gordonjohnsonarchitecture.com  
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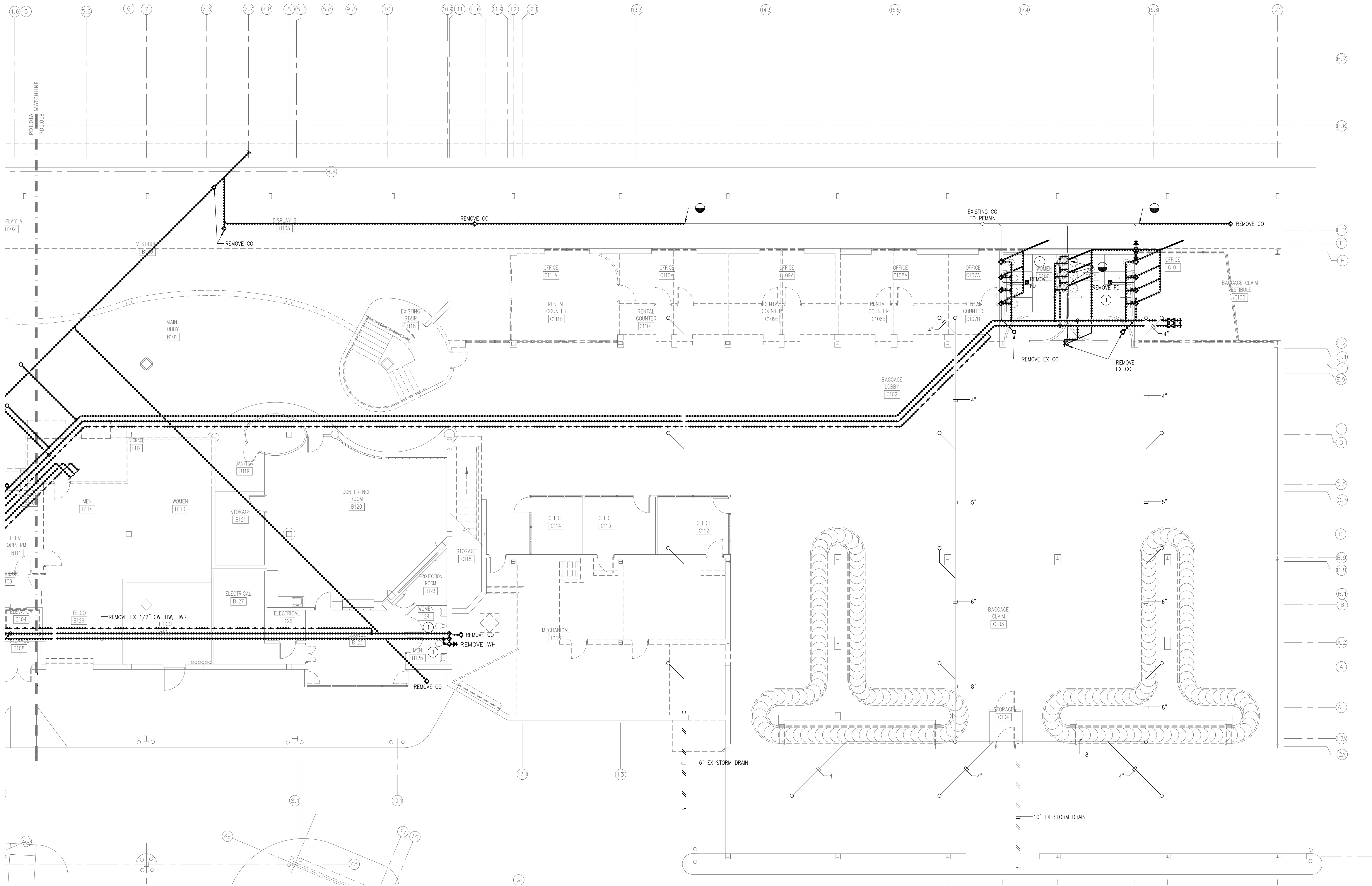
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8720 Red Oak Blvd, Suite 370  
Charlotte, NC 28217  
P: 704.909.6612  
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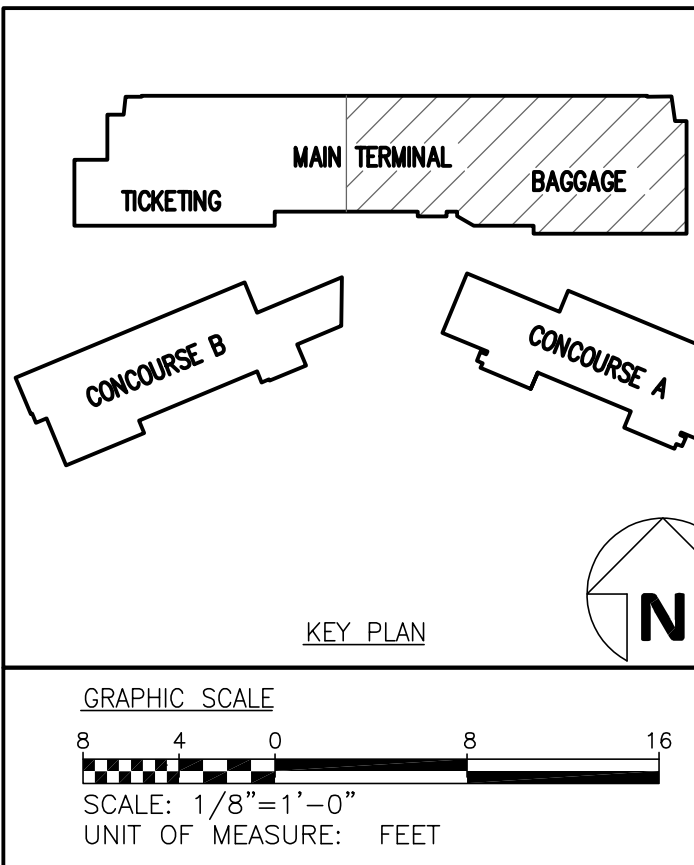


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DEMOLITION

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300 West Street, Suite 1  
Fayetteville, NC 28301  
(910) 271-0000  
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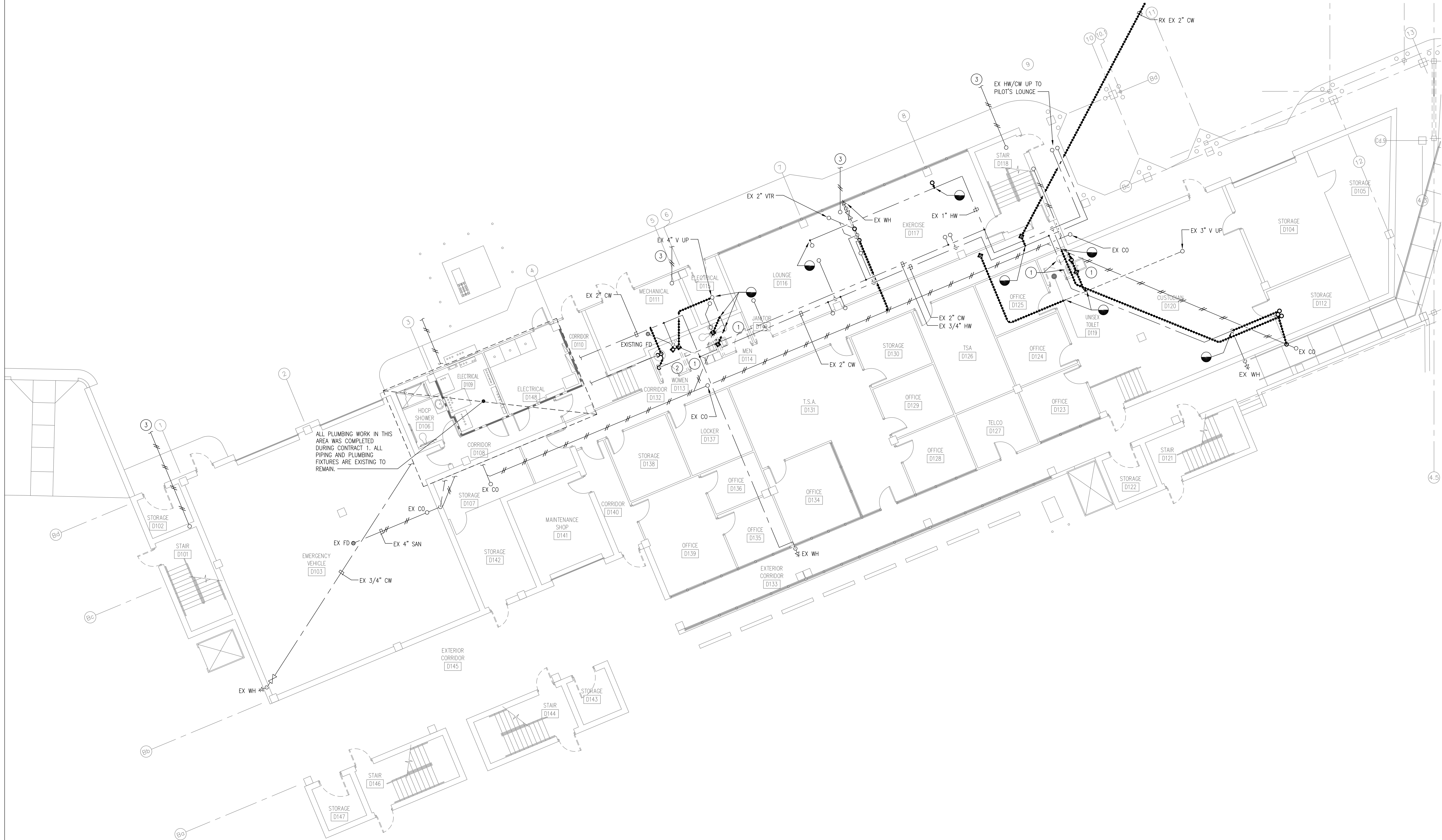
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**rnf**  
RNF ENGINEERING, INC.  
8720 Red Oak Blvd, Suite 370  
Charlotte, NC 28217  
P: 704.909.8812  
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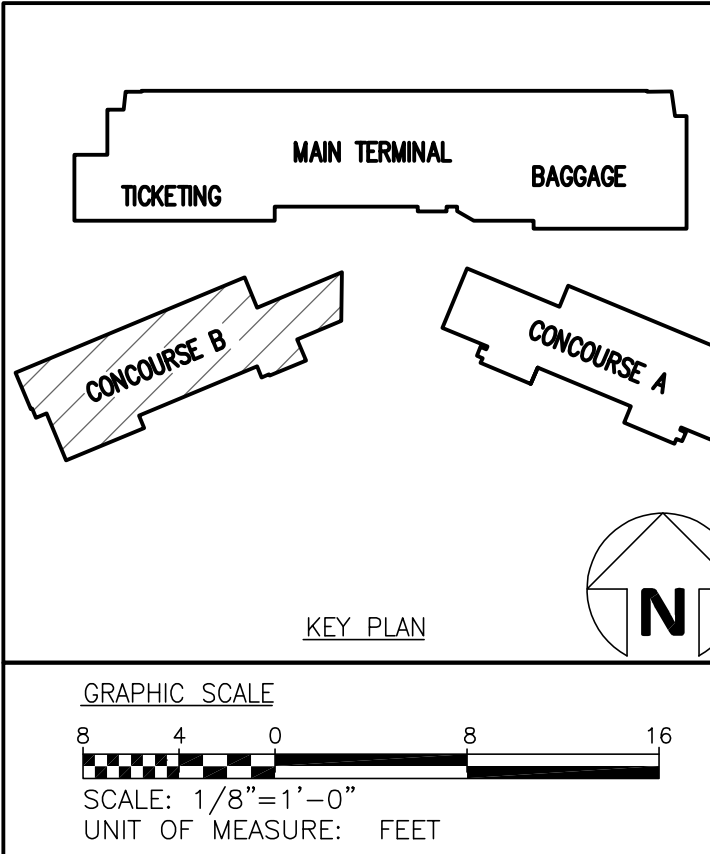


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DRAWING NOTES:

- DISCONNECT AND REMOVE PLUMBING FIXTURE ALONG WITH IT'S ASSOCIATED DOMESTIC WATER, WASTE CONNECTIONS AND VENT PIPING AS INDICATED.
- DISCONNECT AND REMOVE EXISTING WATER HEATER.
- EXISTING STORM DRAIN TO REMAIN.



Fayetteville Regional Airport – Airline Terminal Improvements Part 2

FIRST FLOOR PLAN – AREA C – PLUMBING  
DEMOLITION

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: DSW  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS  
1  
2  
3

SHEET NUMBER

PD1.01C

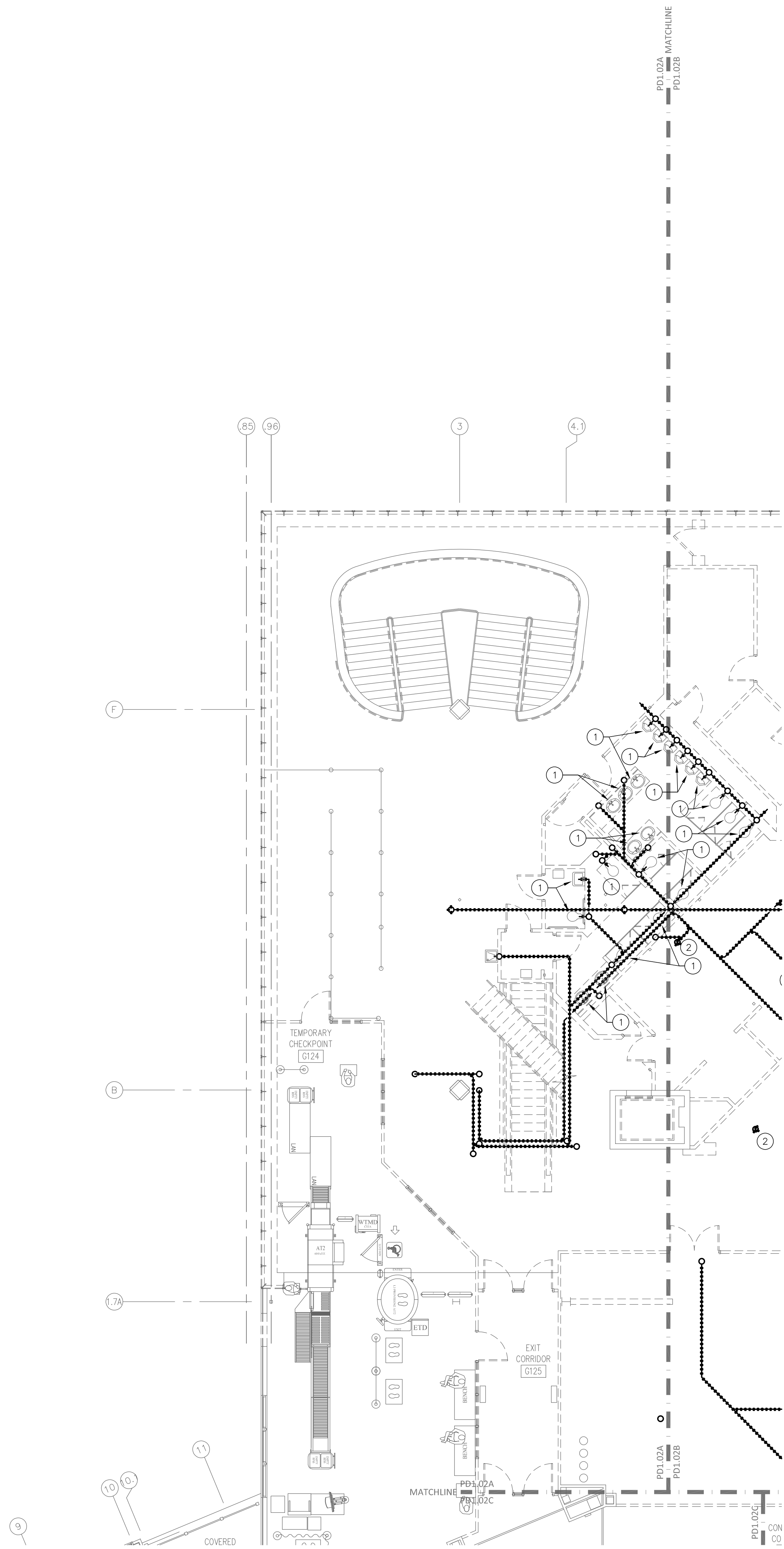
GORDON  
JOHNSON  
Architecture

300 West Street, Suite 1  
Fayetteville, NC 28301  
(910) 271-0000  
Fax: (910) 271-0000  
gordonjohnsonarchitecture.com  
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Charlotte, NC 28217  
P: 704.909.6612  
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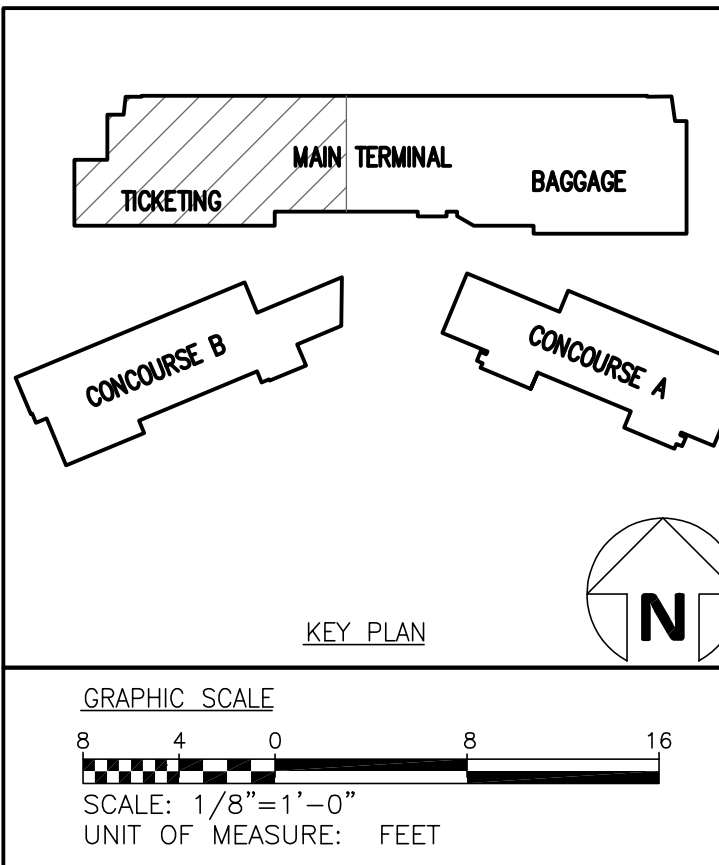


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- REMOVE ALL VENT PIPING IN THE MAIN TERMINAL.

DRAWING NOTES:

- DISCONNECT AND REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING AND CONNECTIONS.
- REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING



DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS	

SHEET NUMBER  
**PD1.02A**

Fayetteville Regional Airport – Airline Terminal Improvements Part 2  
SECOND FLOOR PLAN – AREA A – PLUMBING  
DEMOLITION  
400 Airport Road  
Fayetteville, North Carolina 28306

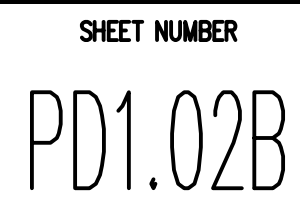
**rmi**  
RMP ENGINEERING, INC.  
8720 Red Oak Blvd, Suite 370  
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P: 704.909.6612  
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**GORDON JOHNSON**  
Architecture  
100 West Street, Suite 1  
Fayetteville, NC 28101  
(910) 271-1100  
gordonjohnsonarchitect.com  
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- 1 DISCONNECT AND REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED PIPING AND CONNECTIONS.
- 2 REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING

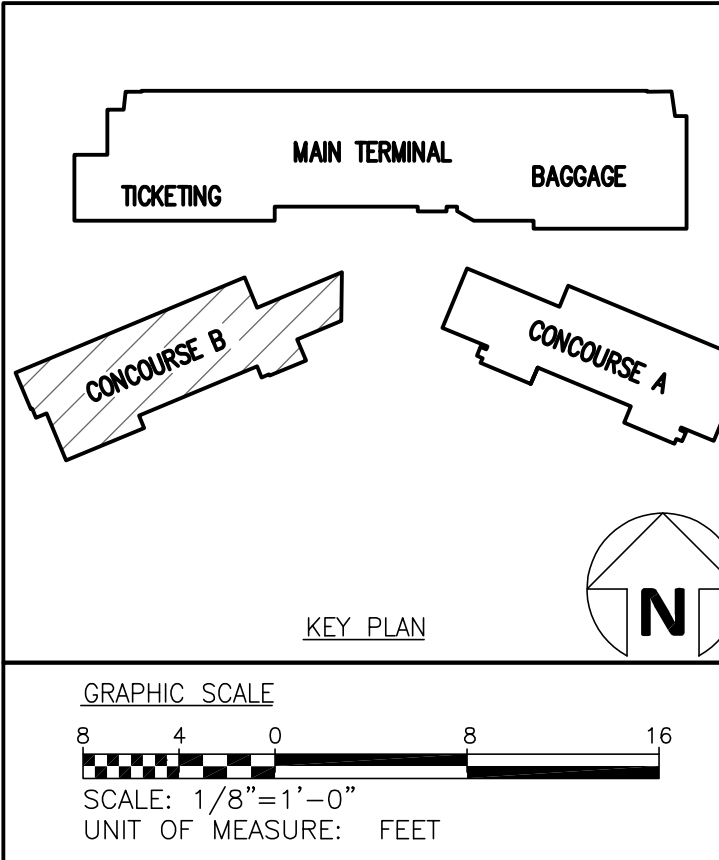




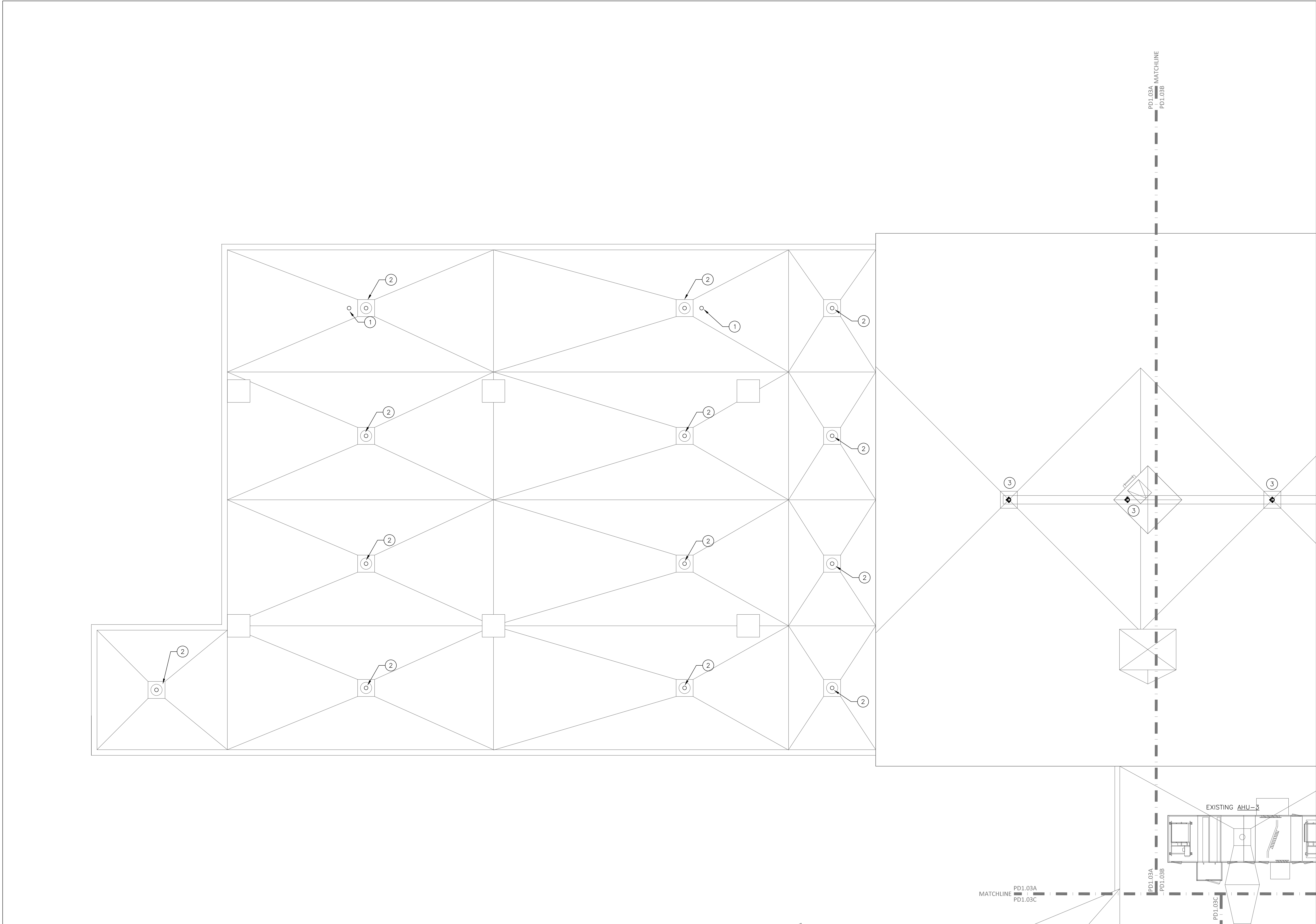


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- DRAWING NOTES:**
- REMOVE EXISTING WATER CLOSET ALONG WITH ASSOCIATED PIPING AS INDICATED.
  - EXISTING STORM DRAIN PIPING TO REMAIN.

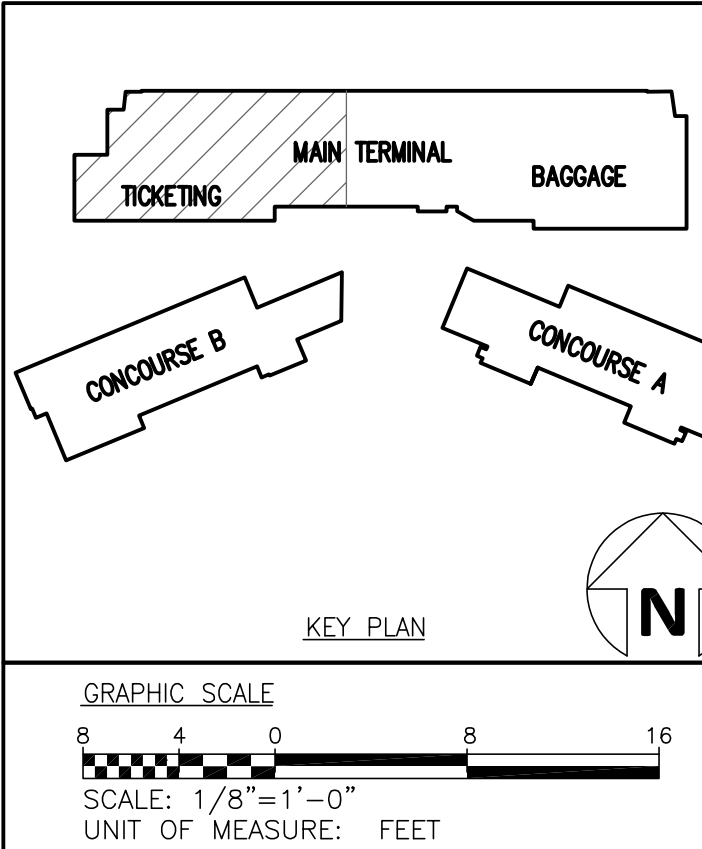






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- DRAWING NOTES:**
- ① EXISTING OVERFLOW DRAIN TO REMAIN.
- ② EXISTING ROOF DRAIN TO REMAIN
- ③ REMOVE EXISTING ROOF DRAIN



DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS	

SHEET NUMBER  
**PD1.03A**

Fayetteville Regional Airport – Airline Terminal Improvements Part 2

ROOF PLAN – AREA A – PLUMBING DEMOLITION

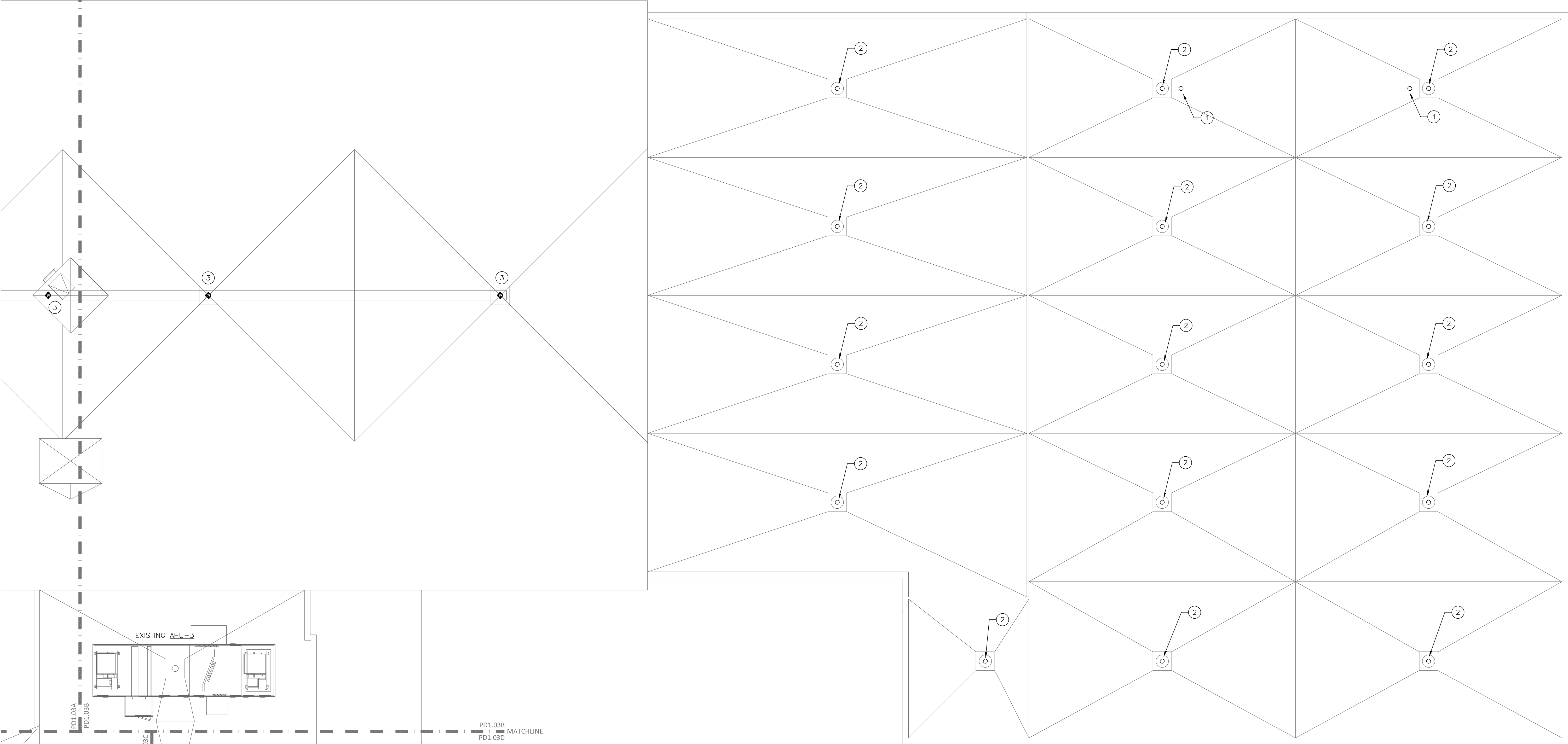
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Fayetteville, North Carolina 28306

**rmi**  
RMF ENGINEERING, INC.  
8720 Red Oak Blvd, Suite 370  
Charlotte, NC 28217  
P: 704.909.8812  
NC License No. C-1126  
RMF Project No. 2153223.FD

**GORDON  
JOHNSON**  
Architecture  
300 West Street, Suite 1  
Fayetteville, NC 28103  
(910) 237-0161  
Fax: (910) 237-0161  
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MATCHLINE



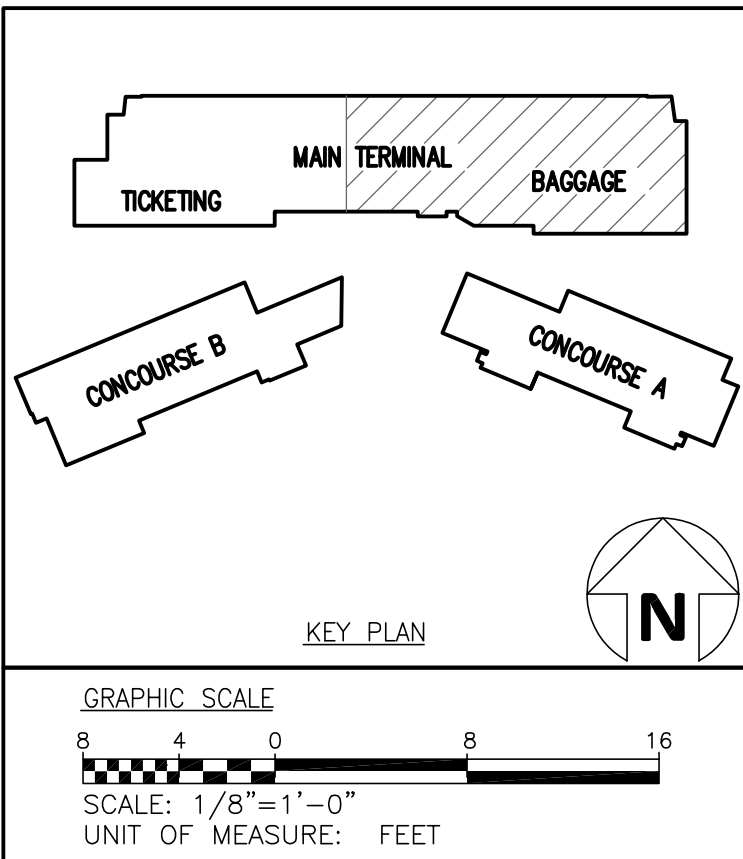
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PD1.03D

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DRAWING NOTES:

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400 Airport Road  
Fayetteville, North Carolina 28306  
ROOF PLAN – AREA B – PLUMBING DEMOLITION

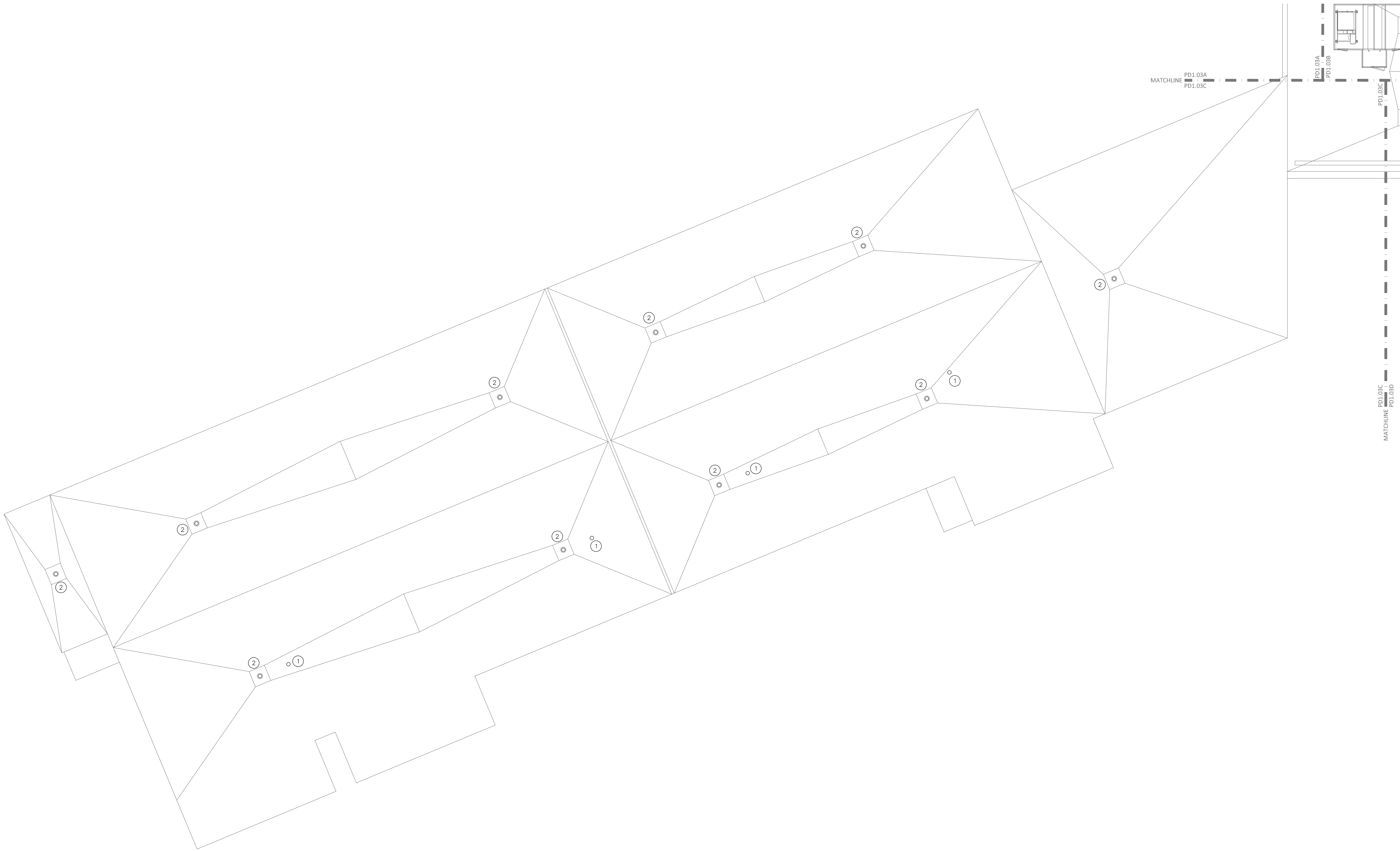
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JOHNSON  
Architecture

100 West Street, Suite 1  
Fayetteville, NC 28301  
(910) 271-0100  
Fax: (910) 271-0101  
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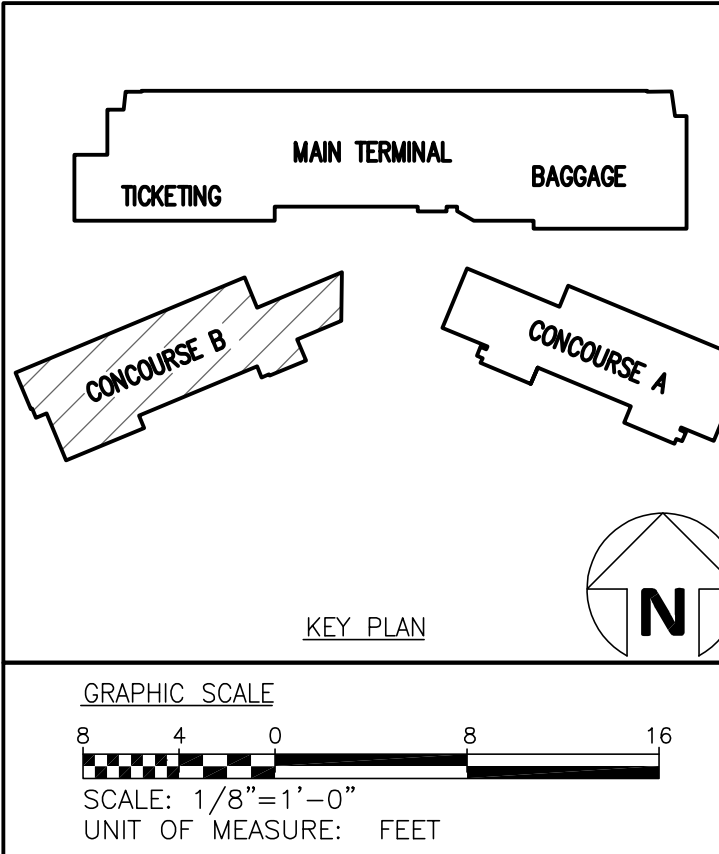


GENERAL NOTES:

- A. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWNS SHALL BE PERFORMED DURING HOURS AS DIRECTED BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUT DOWN ALL SERVICES SHALL BE RESTORED.
- B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.
- C. ALL EXISTING WIRING, EQUIPMENT, CONDUITS, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO REMAIN THE PROPERTY OF THE OWNER, SHALL BE DELIVERED TO HIM ON THE PREMISES BY THE CONTRACTOR WHERE DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
- D. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF PANELBOARDS, LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT, AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL CONDUITS, EQUIPMENT, AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.
- E. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.
- F. WHEN EXISTING MECHANICAL AND ELECTRICAL WORK IS REMOVED, ALL CONDUITS, WIRING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW THE FINISHED FLOORS OR BEHIND FINISHED WALLS AND CAPPED. SUCH POINTS SHALL BE FAR ENOUGH BEHIND FINISHED SURFACES TO ALLOW FOR THE INSTALLATION OF THE NORMAL THICKNESS OF FINISHED MATERIAL.
- G. EXISTING WIRING & CONDUIT NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK TO PANELBOARD UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, CONDUIT, ETC.. UNDERGROUND CONDUIT TO BE REMOVED SHALL BE LIMITED TO PIPING IN THE AREAS OCCUPIED BY THE NEW CONSTRUCTION AND FIVE FEET (5') BEYOND THE NEW CONSTRUCTION. EXISTING CONDUIT INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE SHALL BE CAPPED, PLUGGED, OTHERWISE SEALED. NO EXISTING CONDUIT SHALL BE LEFT OPEN END.
- H. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT, CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE REINSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL CONTRACT COST.
- I. PATCH TO MATCH EXISTING ALL NEW AND EXISTING OPENINGS AND WALLS, CEILINGS, ROOF, AND FLOOR SURFACES DAMAGED OR CREATED BY DEMOLITION WORK. PATCHING WHERE POSSIBLE SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURES, MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT AND AT NO ADDITIONAL CONTRACT COST.
- J. IN GENERAL ALL EQUIPMENT AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL EQUIPMENT AND MATERIALS SHOWN "HEAVY AND HATCHED" IS EXISTING AND SHALL BE DEMOLISHED.

DRAWING NOTES:

- ① EXISTING OVERFLOW DRAIN TO REMAIN.
- ② EXISTING ROOF DRAIN TO REMAIN
- ③ REMOVE EXISTING ROOF DRAIN



**GORDON JOHNSON**  
*Architecture*

505 West Street, Suite 1  
Fayetteville, NC 28103  
(919) 237-0700  
Fax: (919) 237-0700  
gordonjohnsonarchitect.com  
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Fayetteville Regional Airport – Airline Terminal Improvements Part 2

ROOF PLAN – AREA C – PLUMBING DEMOLITION

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: DSW  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS

NO.	DESCRIPTION

SHEET NUMBER  
**PD1.03C**

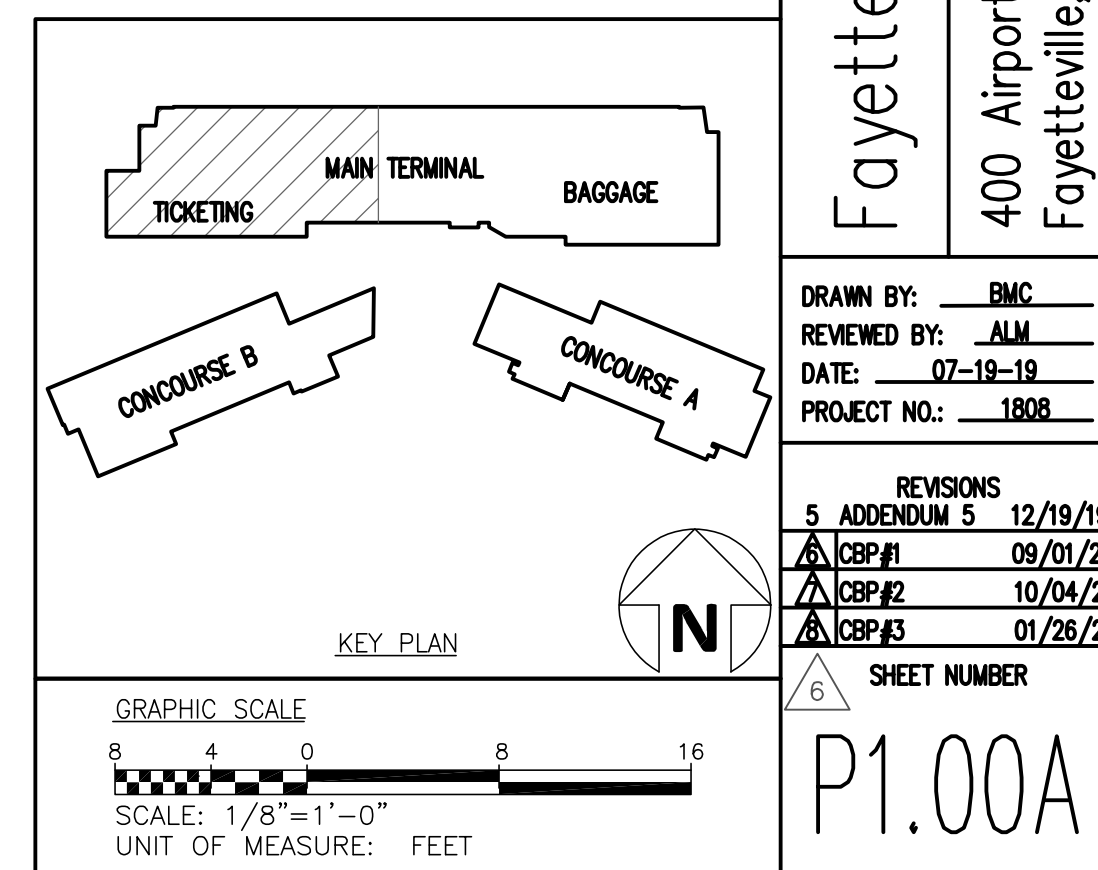
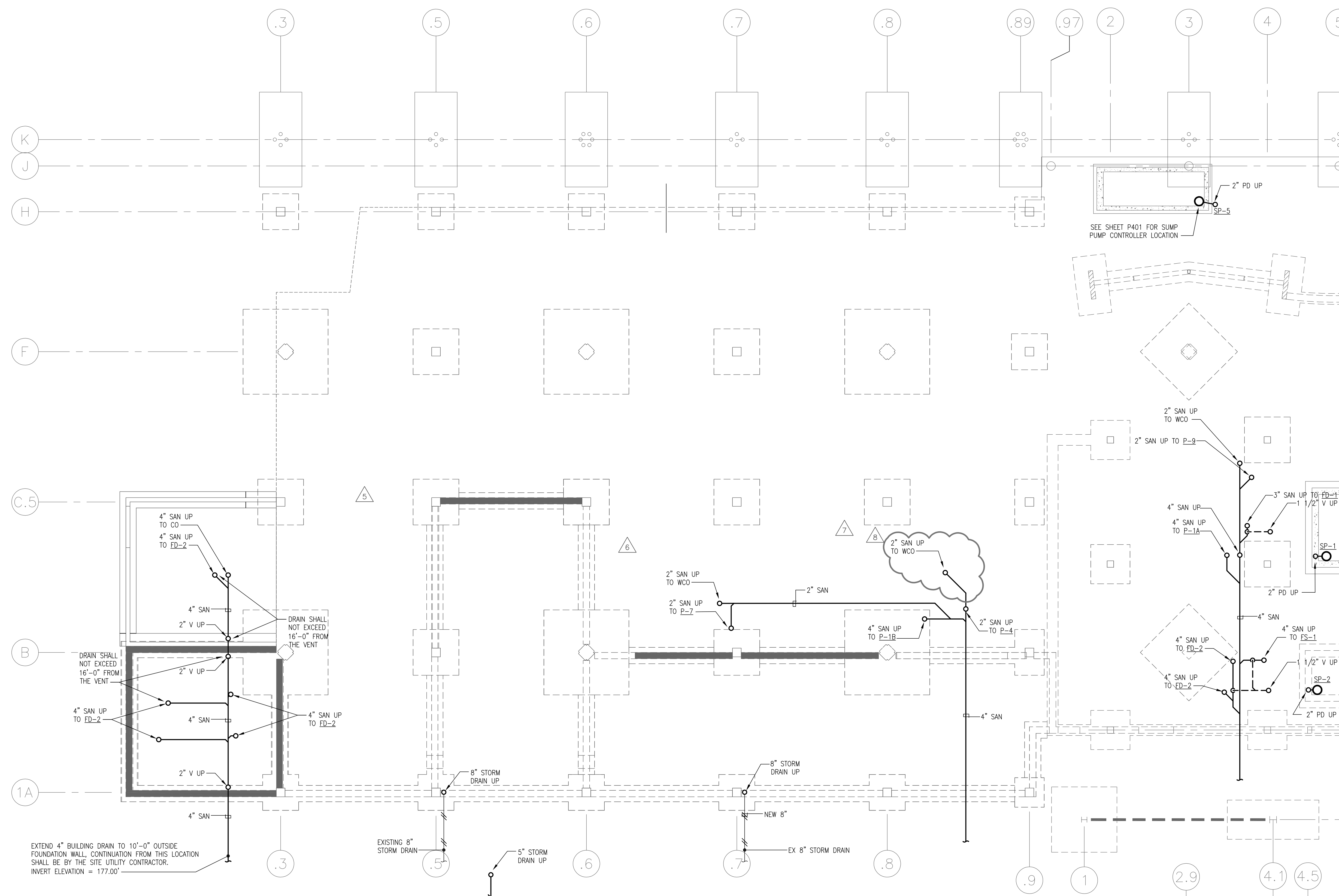


A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING

634 Hoy Street, Suite 4  
Fayetteville, NC 28301  
Phone: (910) 223-2186  
E-Mail: gordonc@  
gordonjohnsonarchitecture.com  
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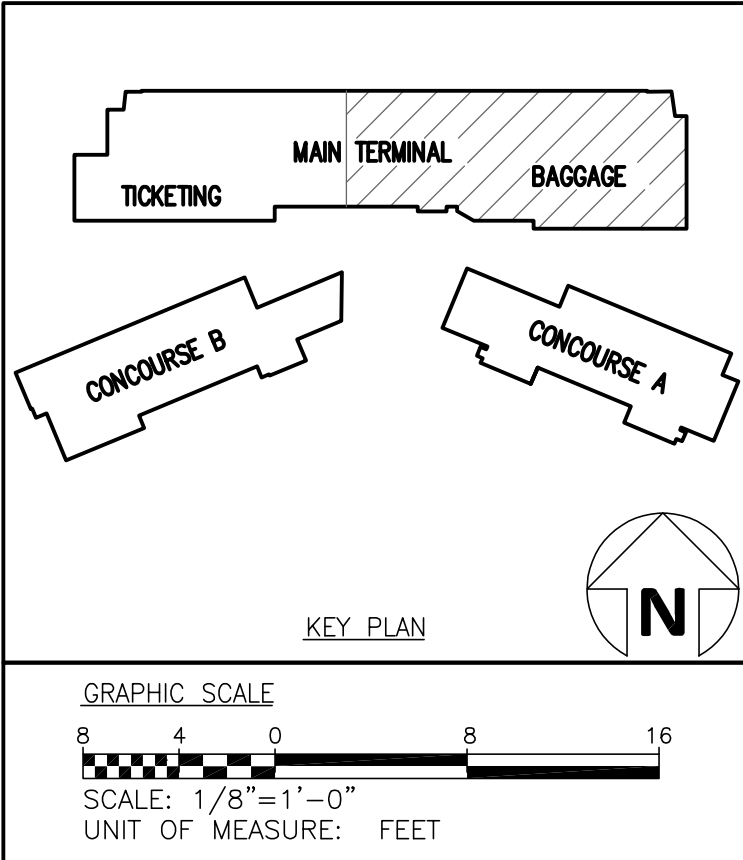
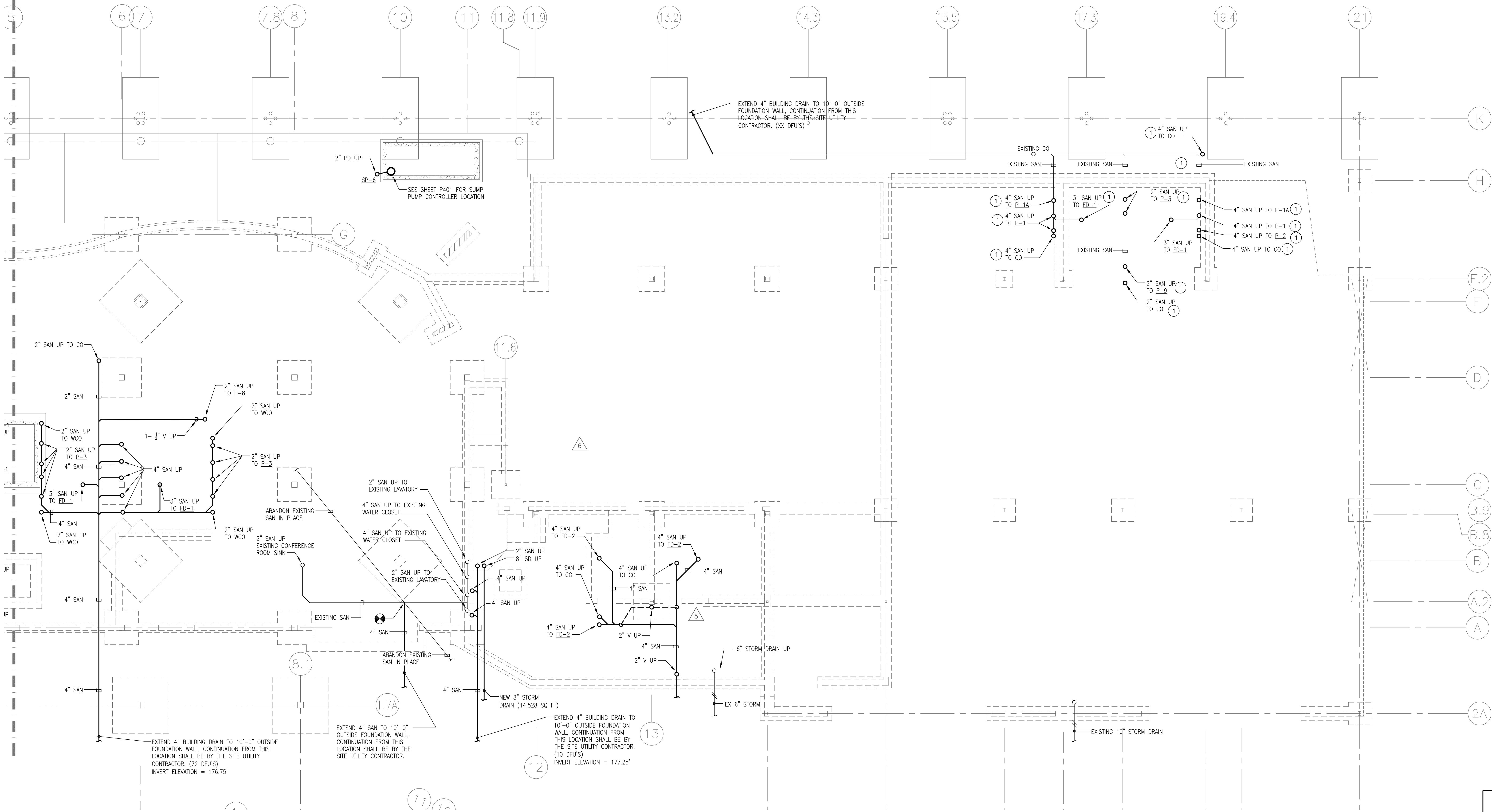




GENERAL NOTES:  
A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING.

DRAWING NOTES:  
1. CONNECT NEW SANITARY VERTICAL PIPING TO EXISTING SANITARY PIPING UNDER THE SLAB.

FL 000  
P1.00B  
WATCHLINE



DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS  
1. ADDENDUM 3 08/14/19  
2. ADDENDUM 5 12/19/19  
3. 09/01/20

SHEET NUMBER

P1.00B

Fayetteville Regional Airport – Airline Terminal Improvements Part 2  
UNDERSLAB PLAN – AREA B – DRAINAGE AND VENT  
400 Airport Road  
Fayetteville, North Carolina 28306

GORDON  
JOHNSON  
Architecture  
500 W. STREET, SUITE 1  
FAYETTEVILLE, NC 28401  
(919) 237-1100  
FAX: (919) 237-1100  
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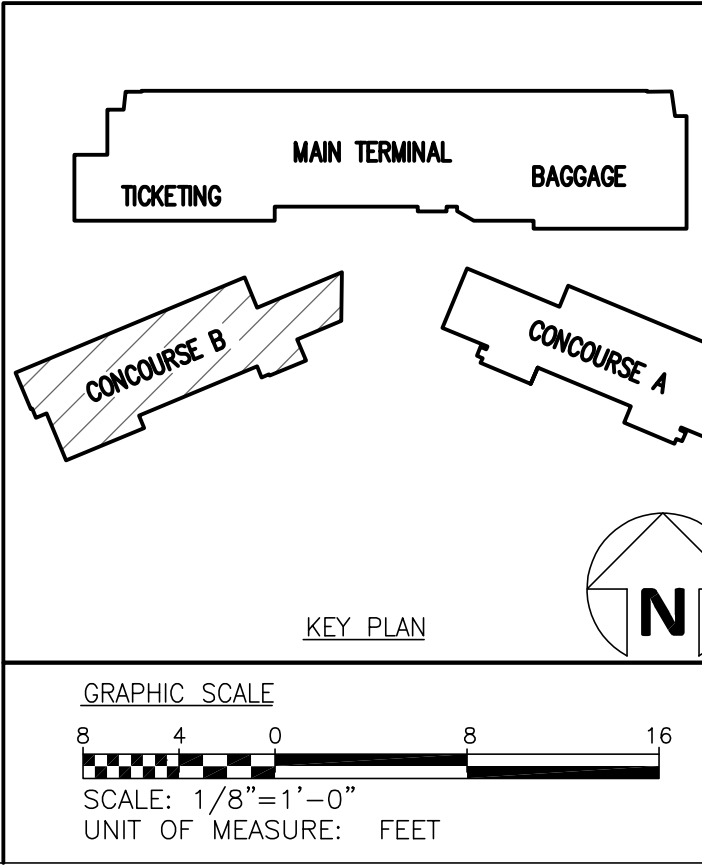
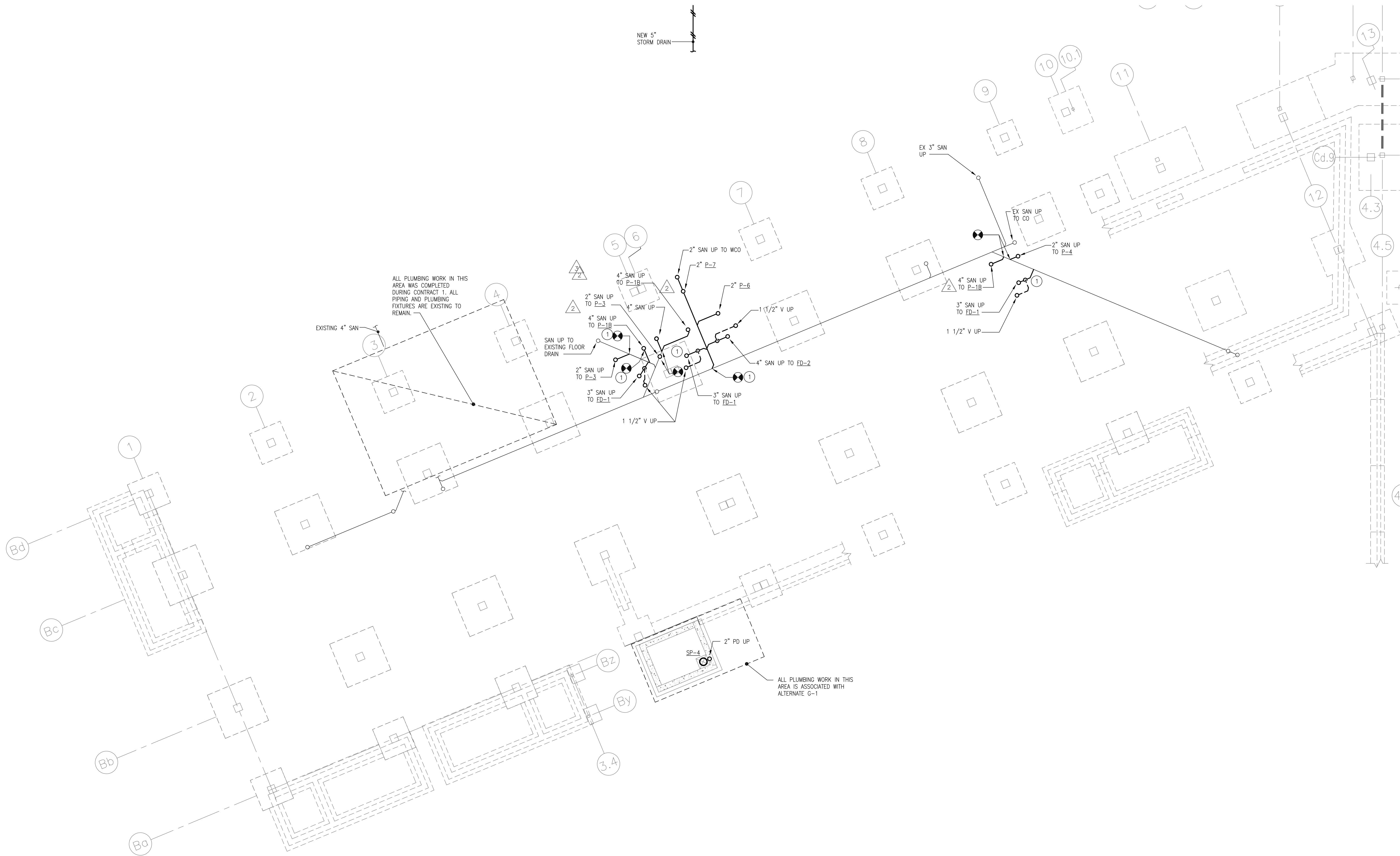


GENERAL NOTES:

A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING.

DRAWING NOTES:

1. CONNECT NEW SANITARY PIPING TO EXISTING.
2. PROVIDE NEW FLOOR DRAIN WITH TRAP PRIMER. CONNECT TRAP PRIMER TO NEAREST FLUSH VALVE.



DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS	
ADDENDUM 3	08/14/19
CRP#1	09/01/20
CRP#2	10/04/21

SHEET NUMBER

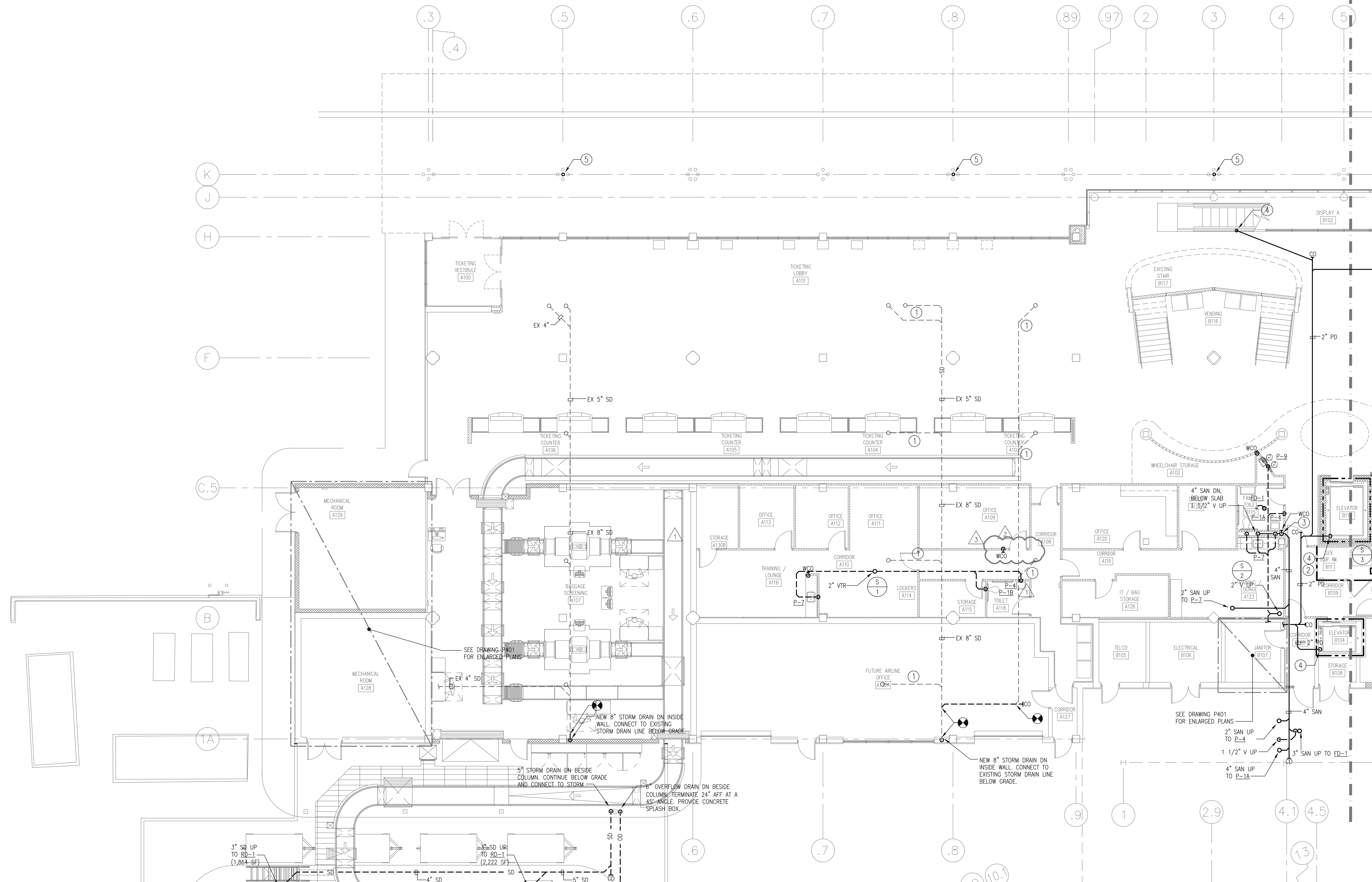
P1.00C

Fayetteville Regional Airport – Airline Terminal Improvements Part 2  
UNDERSLAB PLAN – AREA C – DRAINAGE AND VENT  
400 Airport Road  
Fayetteville, North Carolina 28306

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8720 Pied Oak Blvd, Suite 370  
Charlotte, NC 28217  
P: 704.909.8812  
NC license No. C-1126  
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**GORDON  
JOHNSON**  
Architecture  
500 W. Street, Suite 1  
Fayetteville, NC 28103  
Phone: (910) 237-1100  
Fax: (910) 237-1100  
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- GENERAL NOTES:
- A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING.
- DRAWING NOTES:
- EXISTING STORM DRAIN PIPING TO REMAIN.
  - SEE SHEET M401 FOR SP-1 CONTROLLER LOCATION IN ROOM JANITOR B107.
  - ROUTE 4" SANITARY PIPE DOWN AND RUN HORIZONTALLY IN CHASE TO AVOID THE FOOTING BELOW. TIE IN SANITARY CONNECTIONS FOR P-4 AND P-7 TO THE HORIZONTAL RUN BEFORE DROPPING 4" PIPE BELOW THE SLAB.
  - 2" PD DOWN TO SUMP PUMP IN ELEVATOR/ESCALATOR PIT.
  - PROVIDE NEW VERTICAL 4" STORM DRAIN PIPING TO CONNECT TO STORM DRAIN IN CANOPY ABOVE. EXTEND BELOW GRADE AND CONNECT TO EXISTING STORM DRAIN PIPING. REFER TO M1-03A FOR DRAIN LOCATIONS AND R2.00 FOR DRAIN DETAIL.

**FIRE RATED WALL LEGEND**

--- 1 HOUR FIRE PARTITION  
--- 1 HOUR FIRE BARRIER

**KEY PLAN**

CONCOURSE B    CONCOURSE A

MAIN TERMINAL    BAGGAGE

TICKETING

**GRAPHIC SCALE**

8 4 0 8 16

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

UNIT OF MEASURE: FEET







DRAWING NOTES:

- ① CONNECT NEW PLUMBING FIXTURES TO EXISTING VENT AND SANITARY PIPING CONNECTIONS.
- ② (ALTERNATE G-1)  
MOUNT SUMP PUMP CONTROL PANEL FOR SP-4 IN ELEVATOR EQUIPMENT ROOM 60" AFF. Tie HIGH WATER ALARM INTO BMS.
- ③ (ALTERNATE C-1)  
2" PD DOWN TO SUMP PUMP IN ELEVATOR PIT. TERMINATE SUMP PUMP DISCHARGE WITH A 45° ANGLE. PROVIDE A CONCRETE SPLASH BLOCK.
- ④ PROVIDE NEW FLOOR DRAIN WITH TRAP PRIMER. CONNECT TRAP PRIMER TO NEAREST FLOOR VALVE.

534 Hoy Street, Suite 4  
Fayetteville, NC 28305  
Phone: (910) 223-2186  
E-Mail: gordonc@  
gordonjohnsonarchitects.com  
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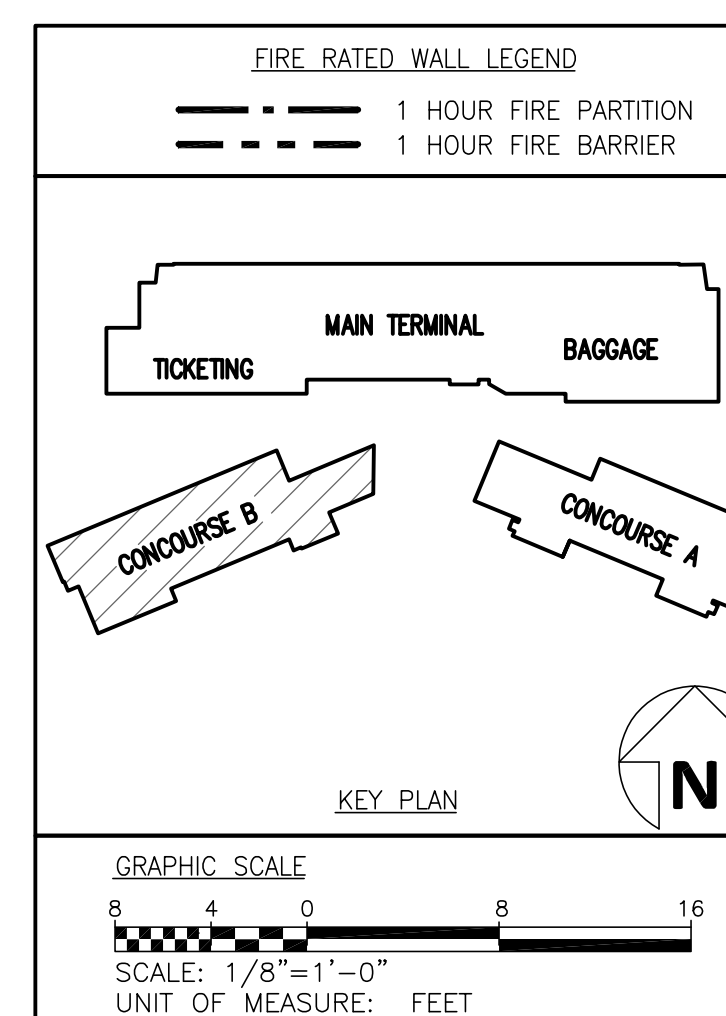
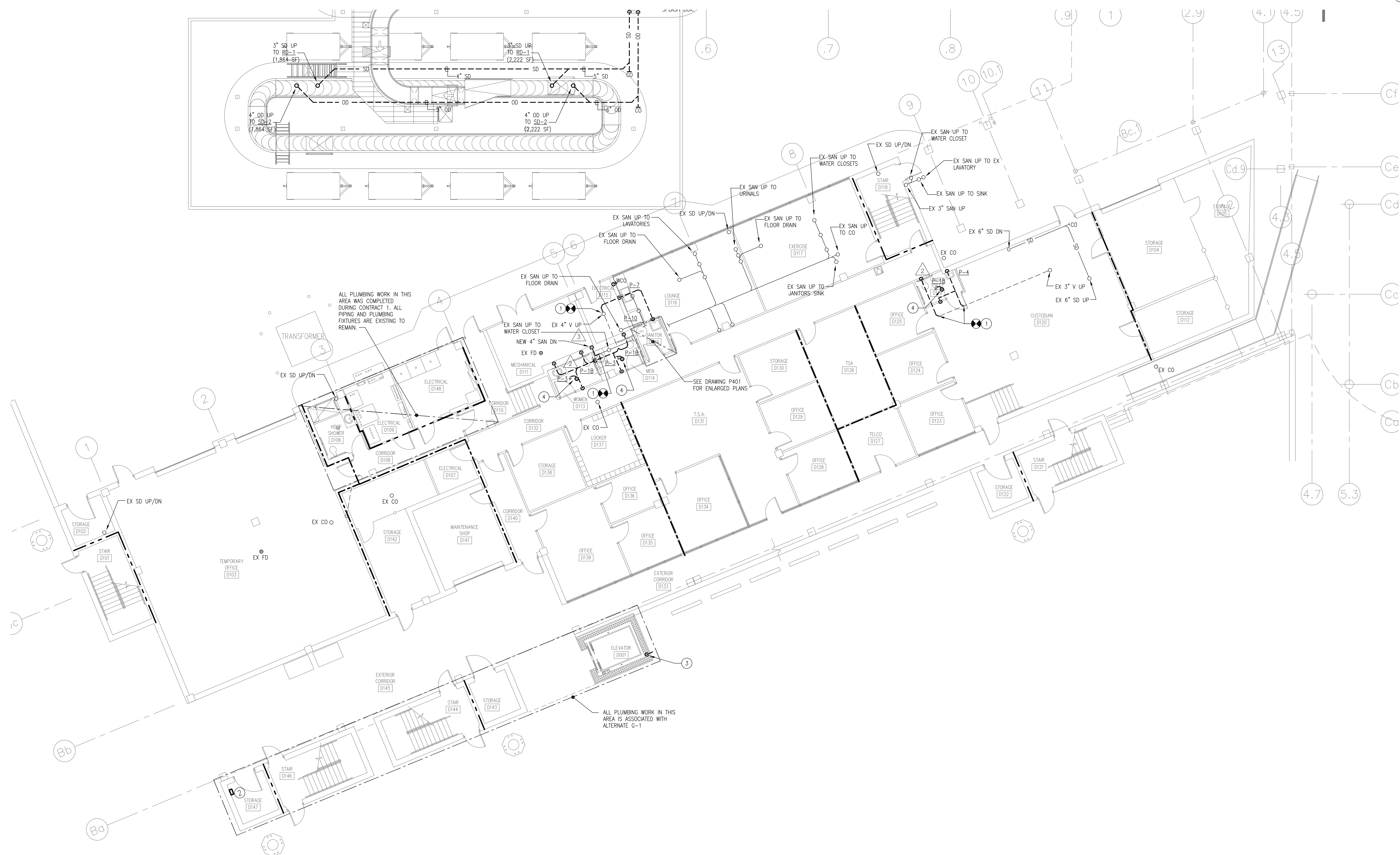
Fayetteville Regional Airport – Airline Terminal Improvements Part 2	400 Airport Road Fayetteville, North Carolina 28306	FIRST FLOOR PLAN – AREA C – DRAINAGE AND VENT
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DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-19-19  
PROJECT NO.: 1808

REVISIONS		
1	ADDENDUM 3	08/14/1
2	CBP #1	09/01/2
3	CBP #2	10/04/2

SHEET NUMBER

P1.01C





- GENERAL NOTES:
- A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING.
- DRAWING NOTES:
- 1 MOUNT SUMP PUMP CONTROL PANEL FOR SP-2 IN STORAGE G124 60" AFF. TIE HIGH WATER ALARM INTO BMS.
- 2 PROVIDE NEW FLOOR DRAIN WITH TRAP PRIMER. CONNECT TRAP PRIMER TO NEAREST FLUSH VALVE.

GORDON  
JOHNSON  
Architecture

500 W. STREET, SUITE 1  
FAYETTEVILLE, NC 28103  
(919) 237-2100  
FAX: (919) 237-2100  
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Fayetteville Regional Airport – Airline Terminal Improvements Part 2

SECOND FLOOR PLAN – AREA A – DRAINAGE AND VENT

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS  
1 09/01/20

SHEET NUMBER

P1.02A

FIRE RATED WALL LEGEND

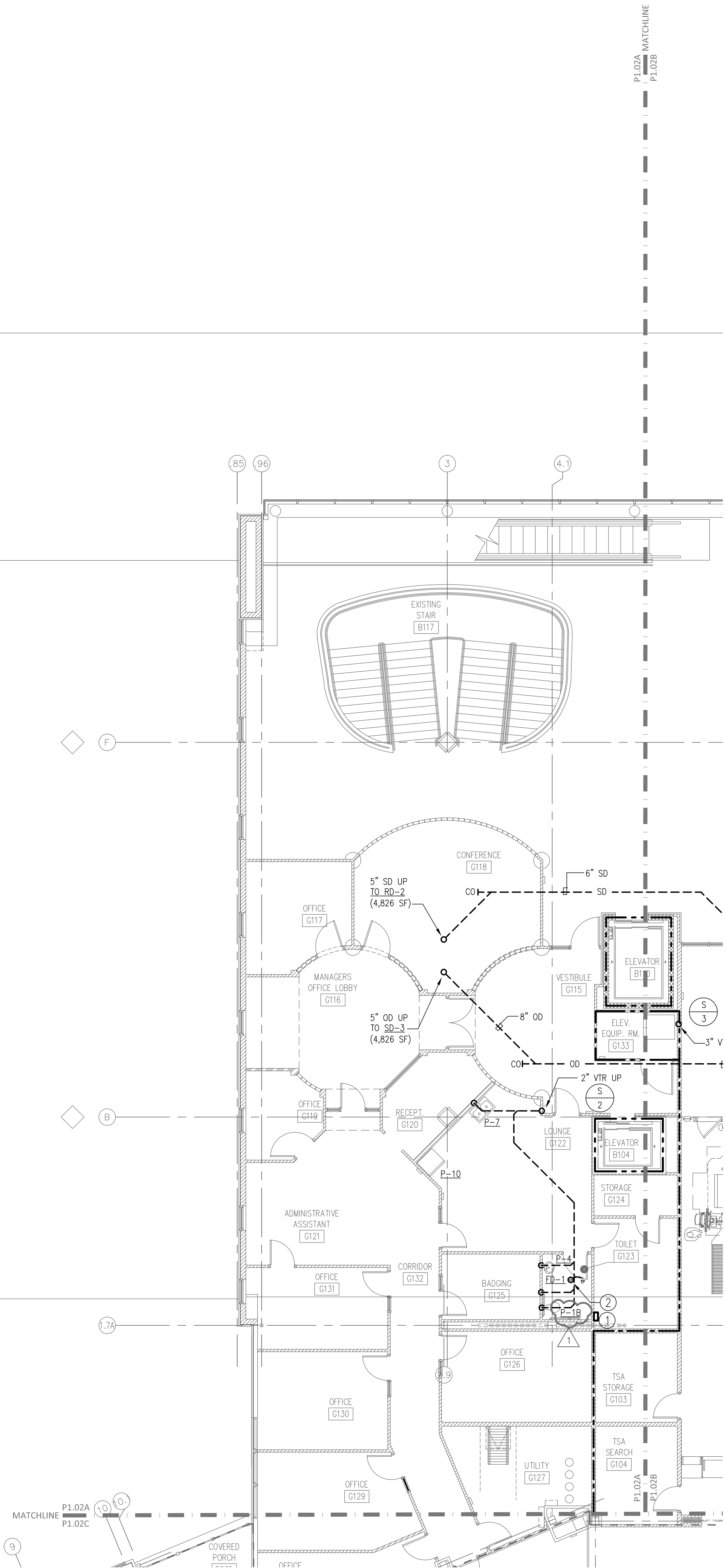
--- 1 HOUR FIRE PARTITION  
--- 1 HOUR FIRE BARRIER

MAIN TERMINAL  
TICKETING BAGGAGE

CONCOURSE B  
CONCOURSE A

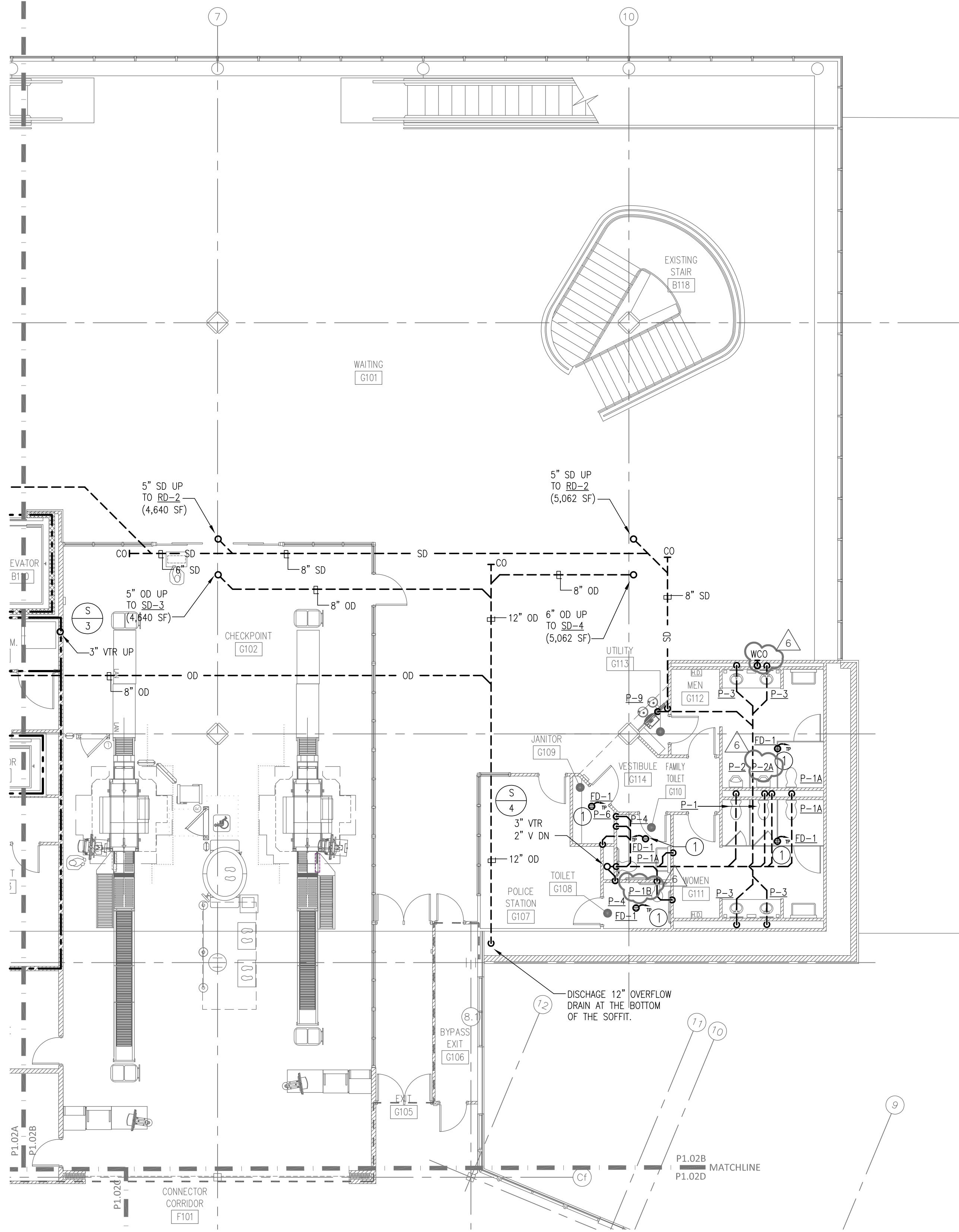
KEY PLAN

GRAPHIC SCALE  
8 4 0 8 16  
SCALE: 1/8"=1'-0"  
UNIT OF MEASURE: FEET





P1.02A MATCHLINE  
P1.02B



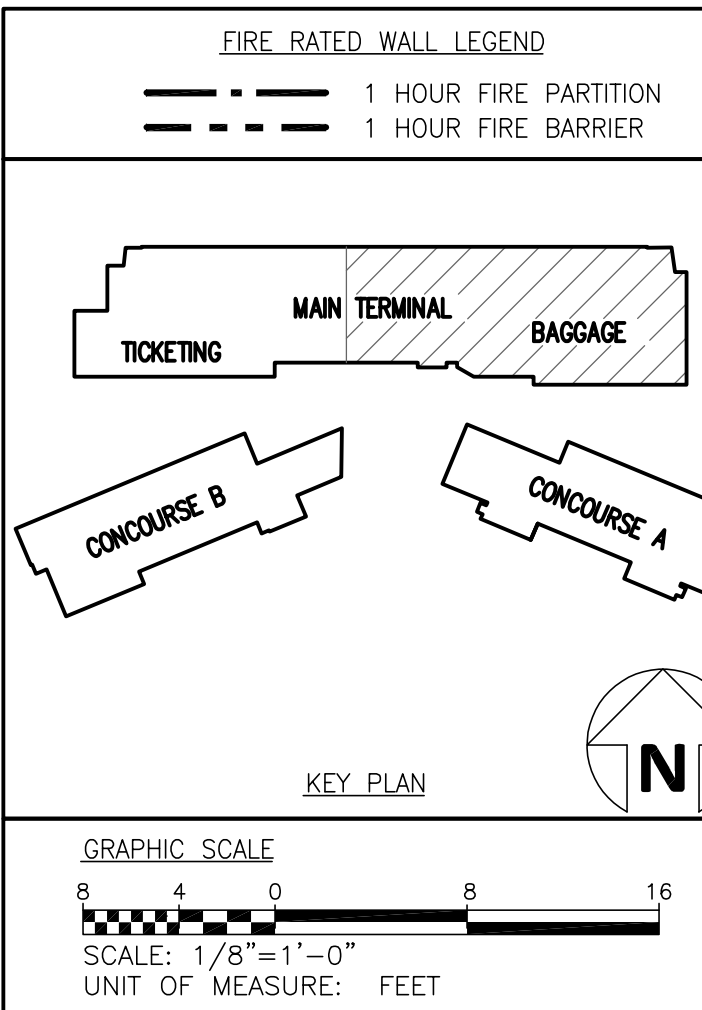
SEE DRAWING P1.03B FOR ROOF PLAN IN THIS AREA

GENERAL NOTES:

A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING.

DRAWING NOTES:

- 1 PROVIDE NEW FLOOR DRAIN WITH TRAP PRIMER. CONNECT TRAP PRIMER TO NEAREST FLUSH VALVE.



Fayetteville Regional Airport – Airline Terminal Improvements Part 2

SECOND FLOOR PLAN – AREA B – DRAINAGE AND VENT

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS  
ADDENDUM 5 12/19/19  
CSP# 09/01/20

SHEET NUMBER

P1.02B

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500 W. STREET, SUITE 1  
FAYETTEVILLE, NC 28103  
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GENERAL NOTES:

A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING.

DRAWING NOTES:

- EXISTING PLUMBING FIXTURE TO REMAIN.
- INSTALL NEW WATER COOLERS IN LOCATION OF DEMOLISHED WATER COOLER. UTILIZE EXISTING SANITARY AND VENT CONNECTIONS. WATER COOLERS SHOULD BE INDIVIDUALLY MOUNTED ON EITHER SIDE OF THE EXISTING COLUMN. ONE WATER COOLER SHOULD BE MOUNTED FOR ADA REQUIREMENTS
- NOT USED.

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Architecture

505 TWO STREET, SUITE 1  
FAYETTEVILLE, NC 28103  
(919) 237-1166  
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Fayetteville Regional Airport – Airline Terminal Improvements Part 2

SECOND FLOOR PLAN – AREA C – DRAINAGE AND VENT

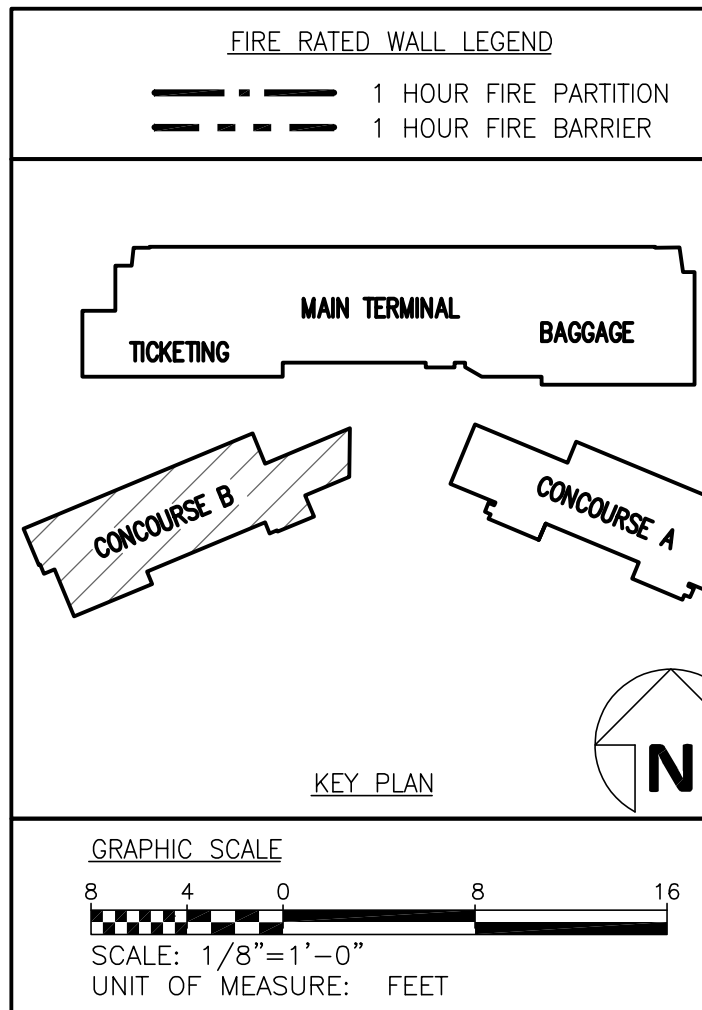
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PROJECT NO.: 1808

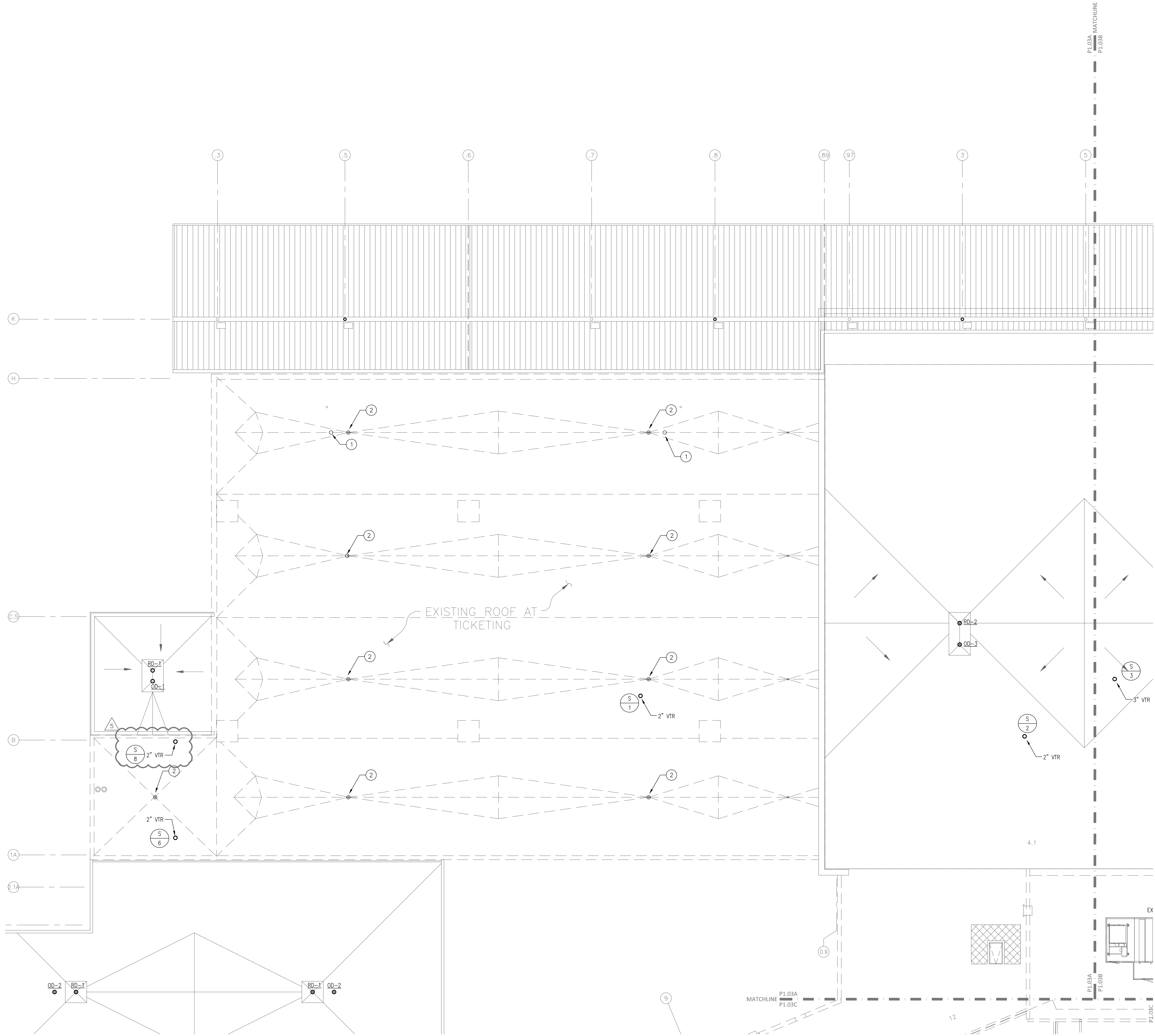
REVISIONS  
1. CRP#1 09/01/20

SHEET NUMBER

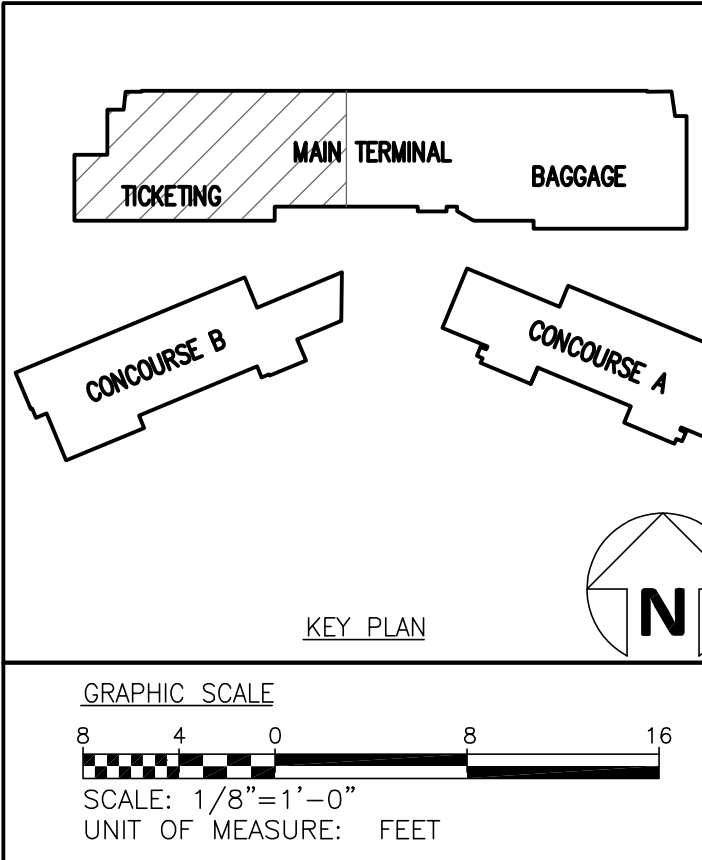
P1.02C







- DRAWING NOTES:
- 1 EXISTING OVERFLOW DRAIN TO REMAIN.
  - 2 EXISTING ROOF DRAIN TO REMAIN



Fayetteville Regional Airport – Airline Terminal Improvements Part 2

ROOF PLAN – AREA A – DRAINAGE AND VENT

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS  
ADDENDUM 5 12/19/19

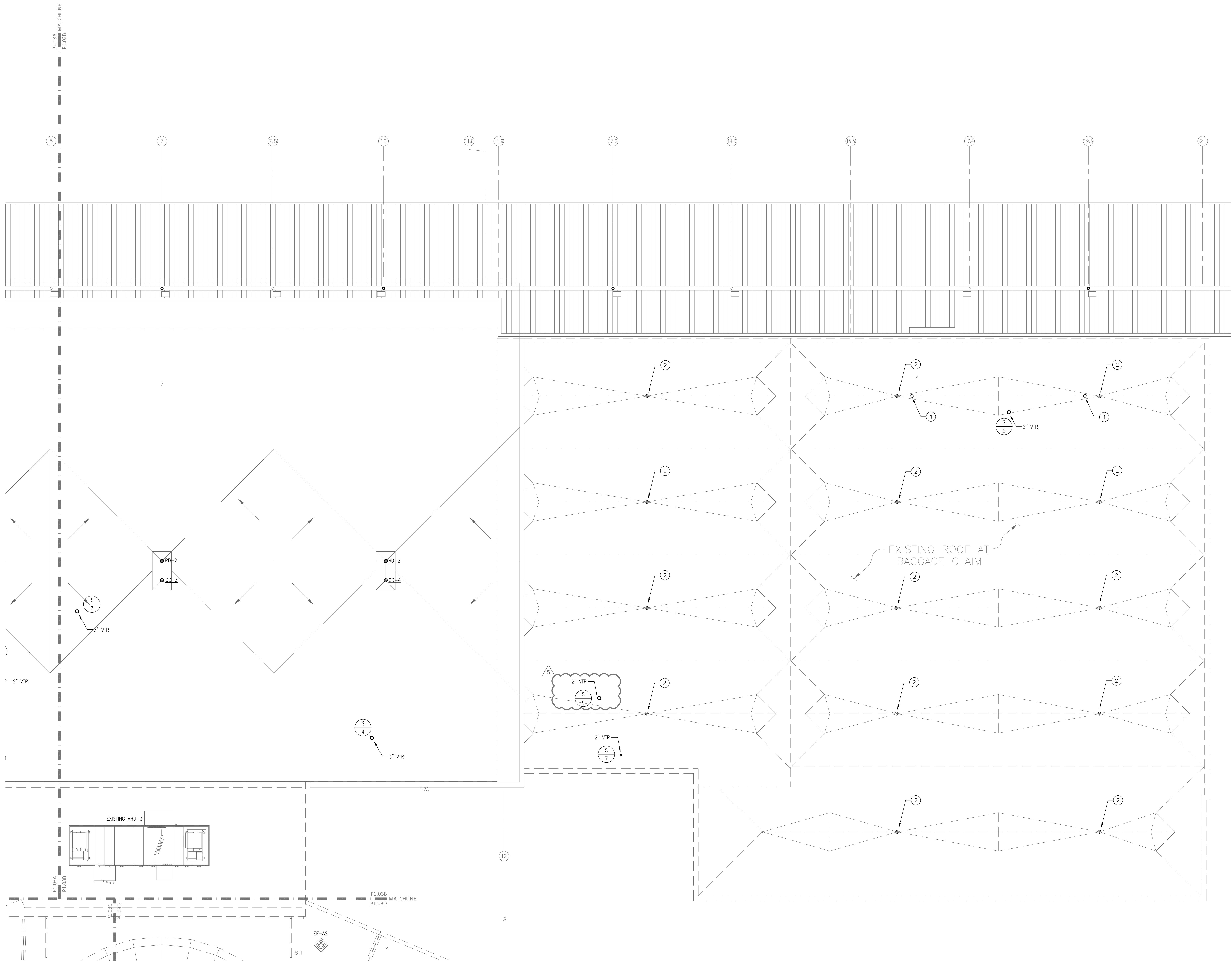
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P1.03A

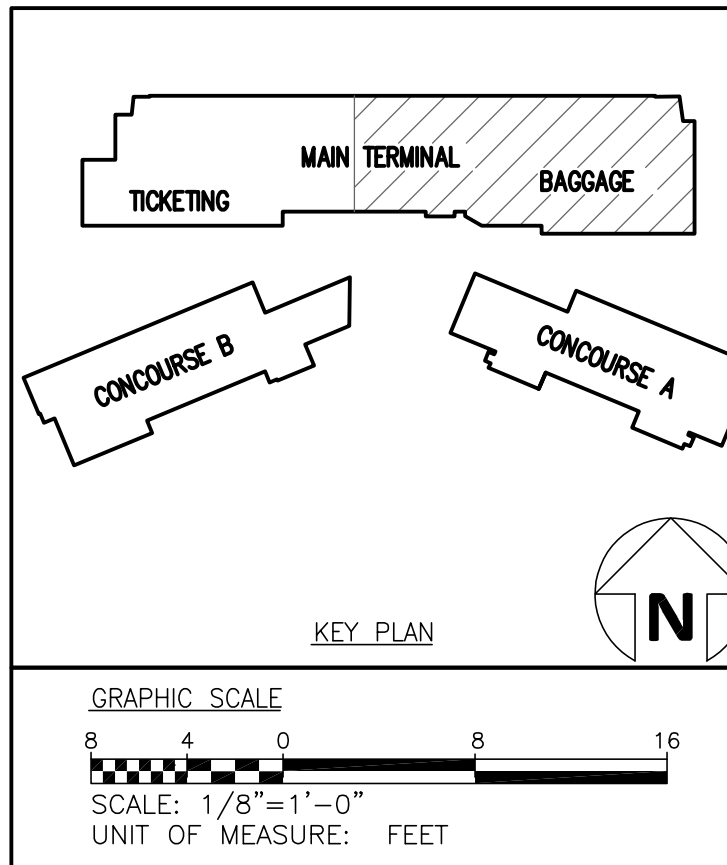
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RMF Project No: 215223.FD

**GORDON  
JOHNSON**  
Architecture  
300 W. Street, Suite 1  
Fayetteville, NC 28103  
Phone: (910) 237-1100  
Fax: (910) 237-1100  
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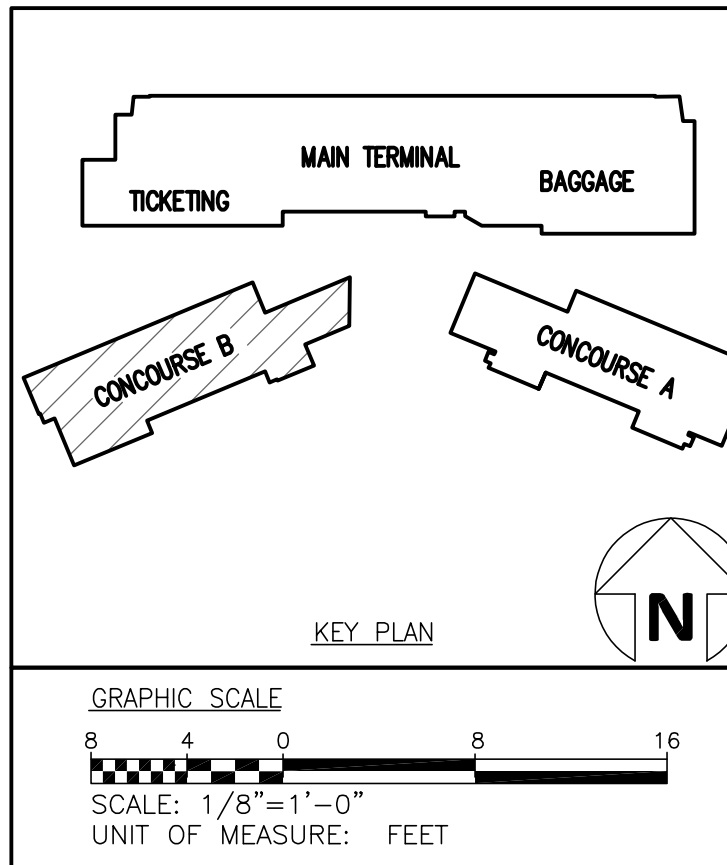
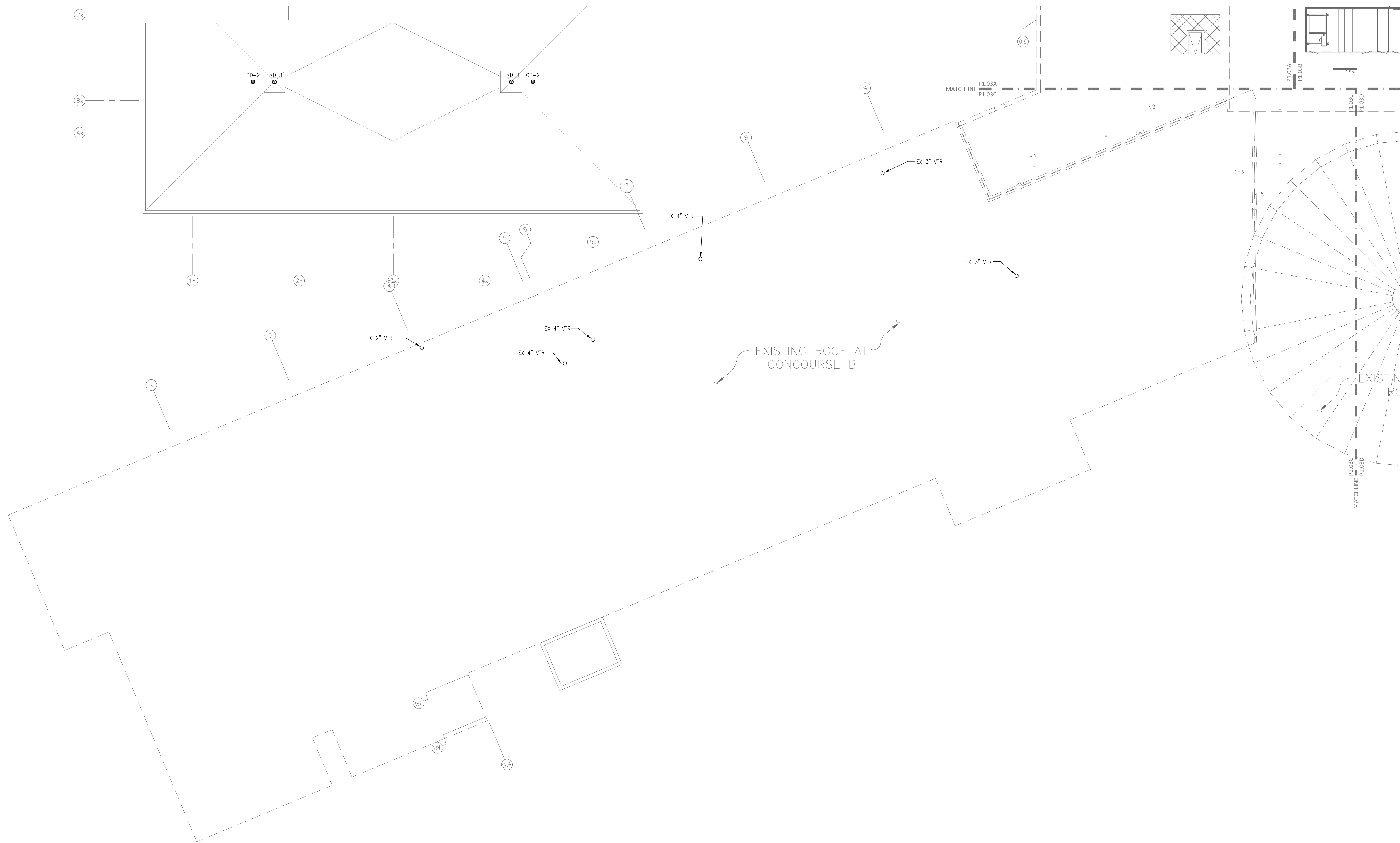




- DRAWING NOTES:
- 1 EXISTING OVERFLOW DRAIN TO REMAIN.
  - 2 EXISTING ROOF DRAIN TO REMAIN









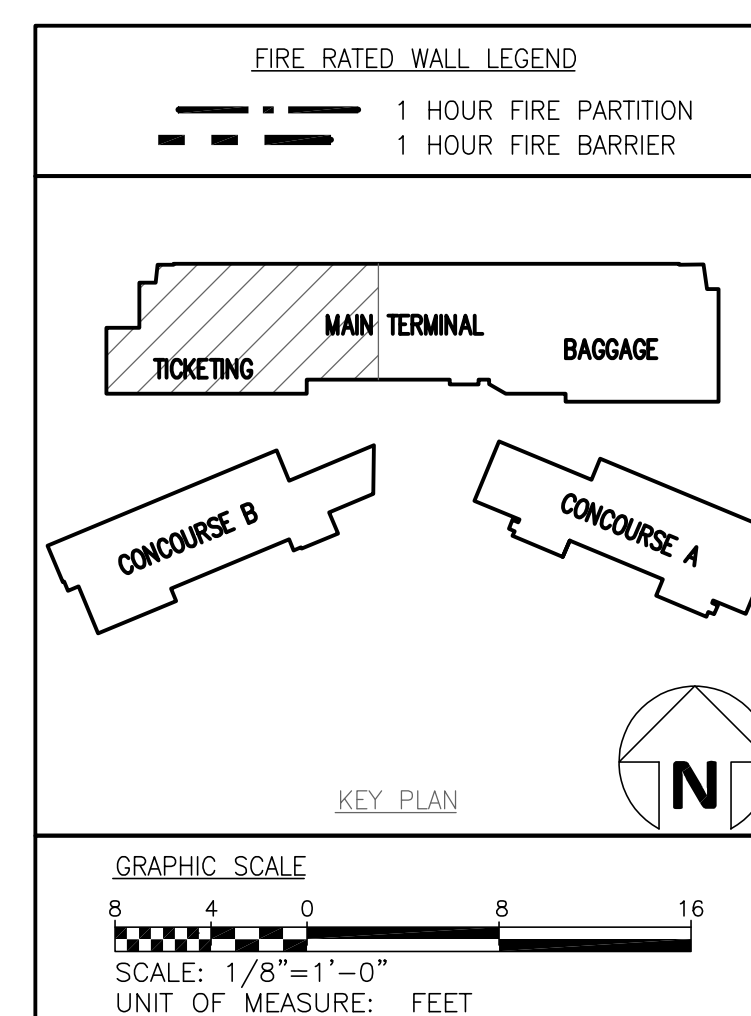
- ① PROVIDE 1/2" CW CONNECTION TO VALVE BOX FOR REFRIGERATOR
- ② 3/4" CW DOWN TO TRAP PRIMING STATION.

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Phone: (919) 233-2138  
E-Mail: gordon@  
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Fayetteville Regional Airport – Airline Terminal Improvements Part 2	
400 Airport Road Fayetteville, North Carolina 28306	FIRST FLOOR PLAN – AREA A – DOMESTIC WATER

DRAWN BY: MRT  
REVIEWED BY: ALM  
DATE: 07-19-19  
PROJECT NO: 1808

REVISIONS		
Δ	CRD #	00 / 01 / 02

SHEET NUMBER

P1.11A



DRAWING NOTES:

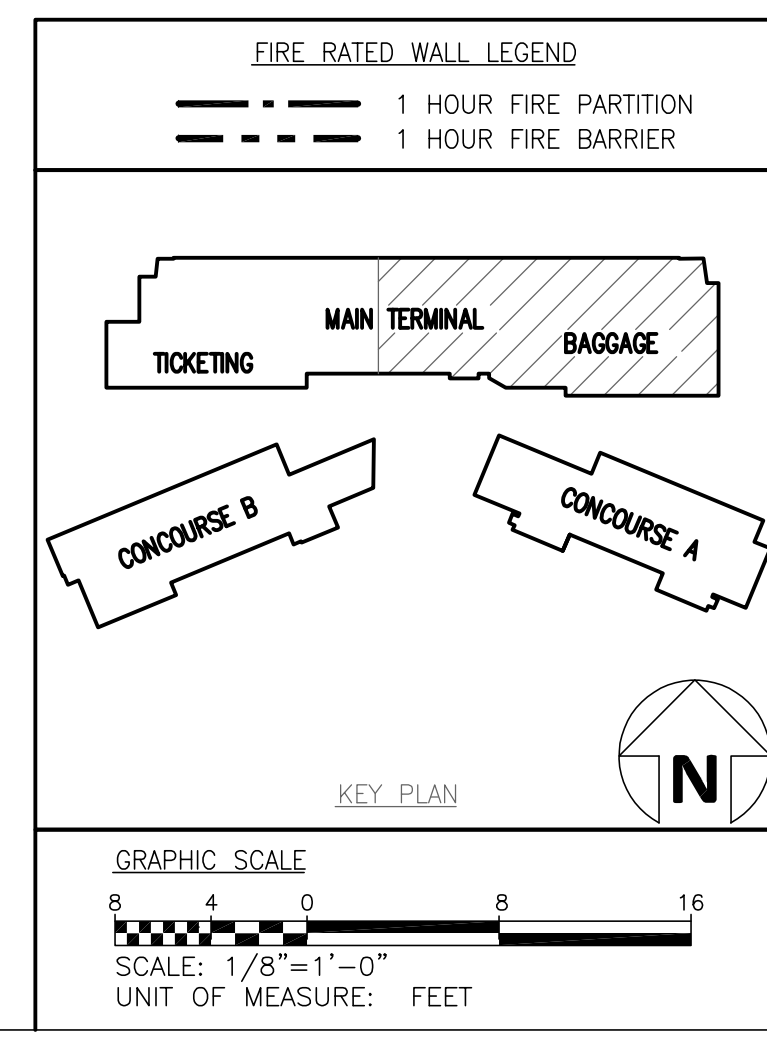
- ① EXISTING LAVATORIES IN MEN C105 AND WOMEN C106 TO REMAIN.  
CONNECT NEW PIPING AS SHOWN TO EXISTING VERTICAL PIPING IN THE WALL.
- ② 3/4" CW DOWN TO TRAP PRIMING STATION.

654 Hay Street, Suite 4  
Fayetteville, NC 28301  
Phone: (910) 223-2186  
E-Mail: gorden@  
gordongordonarchitectur.com  
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Fayetteville Regional Airport – Airline Terminal Improvements Part 2

FIRST FLOOR PLAN - AREA B - DOMESTIC WATER

Fayetteville Regional	400 Airport Road Fayetteville, North Carolina 28306
-----------------------	--

DRAWN BY: MRT  
REVIEWED BY: ALM  
DATE: 07-19-19  
PROJECT NO.: 1808

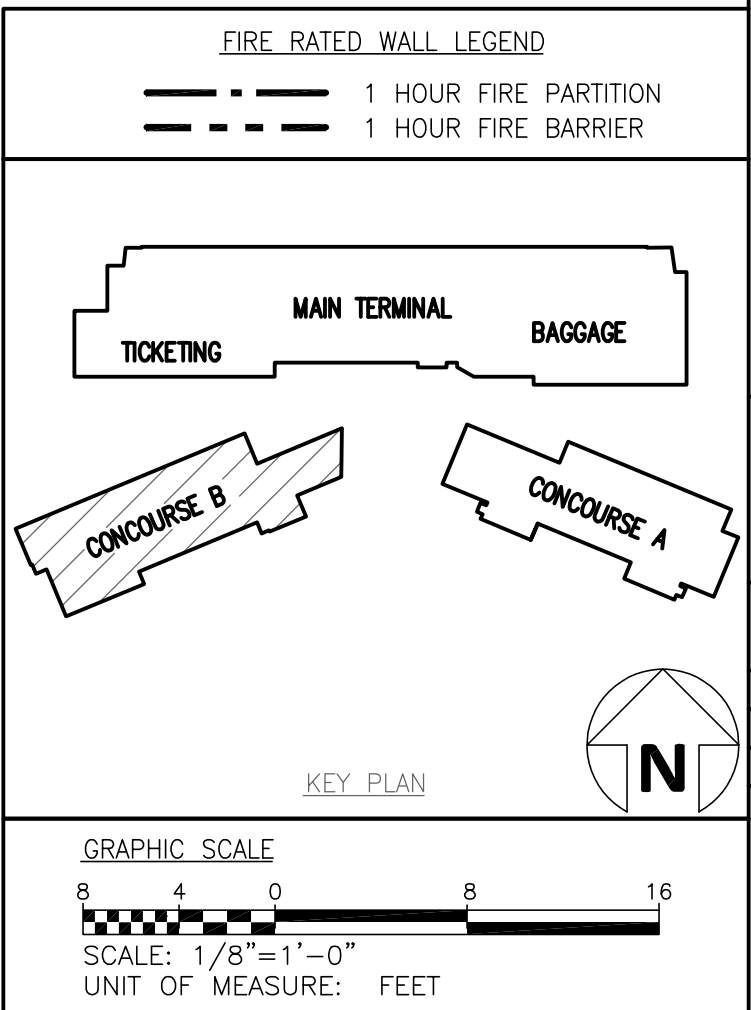
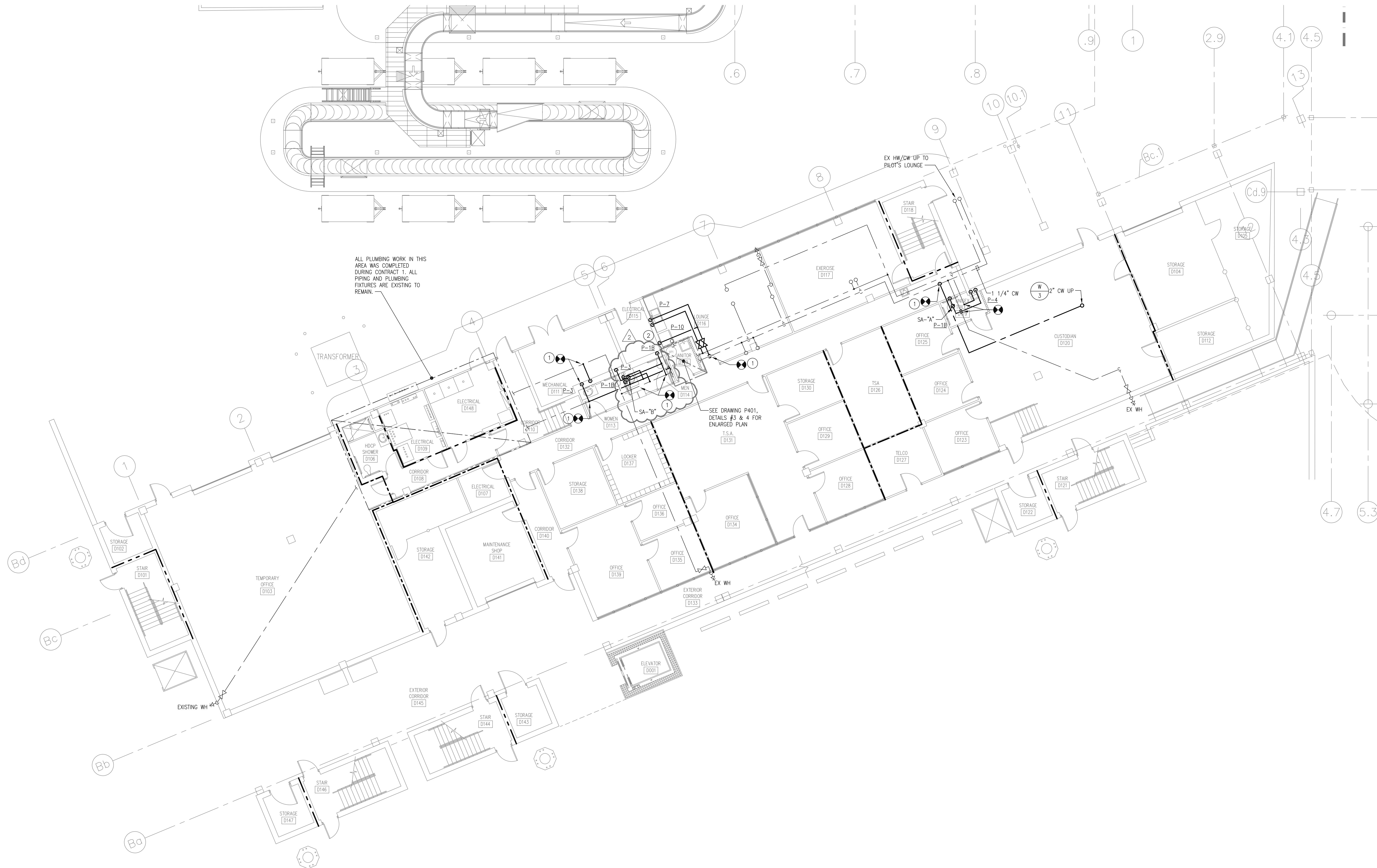
REVISIONS	
1	C8P#1 09/01/20

SHEET NUMBER

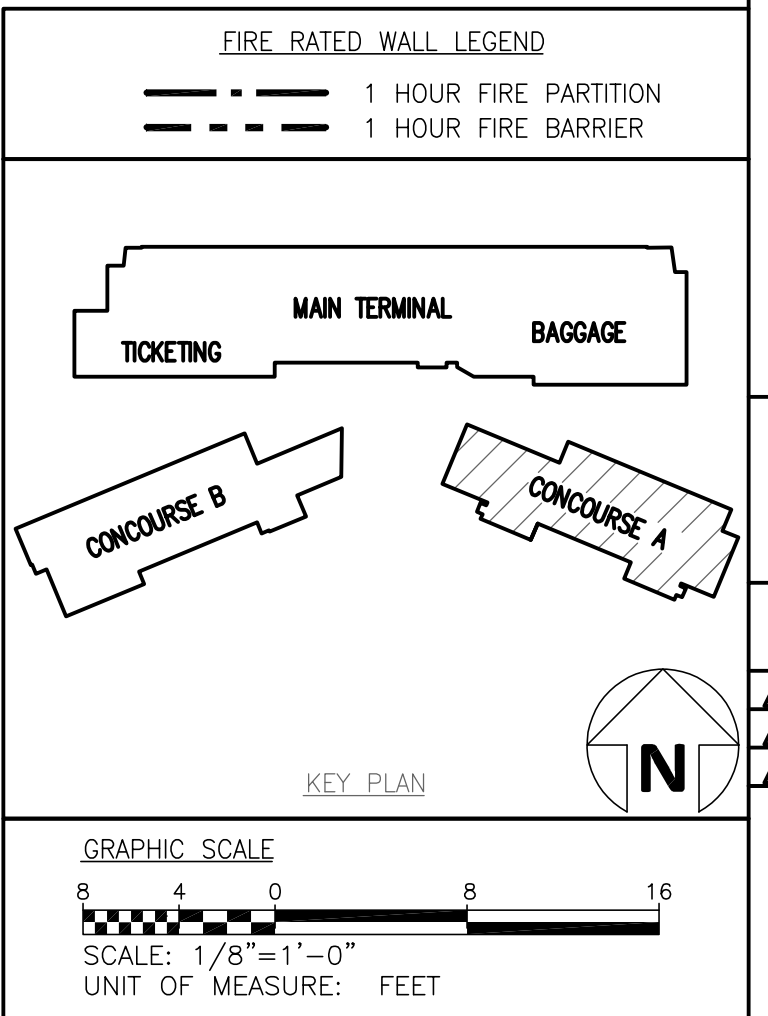
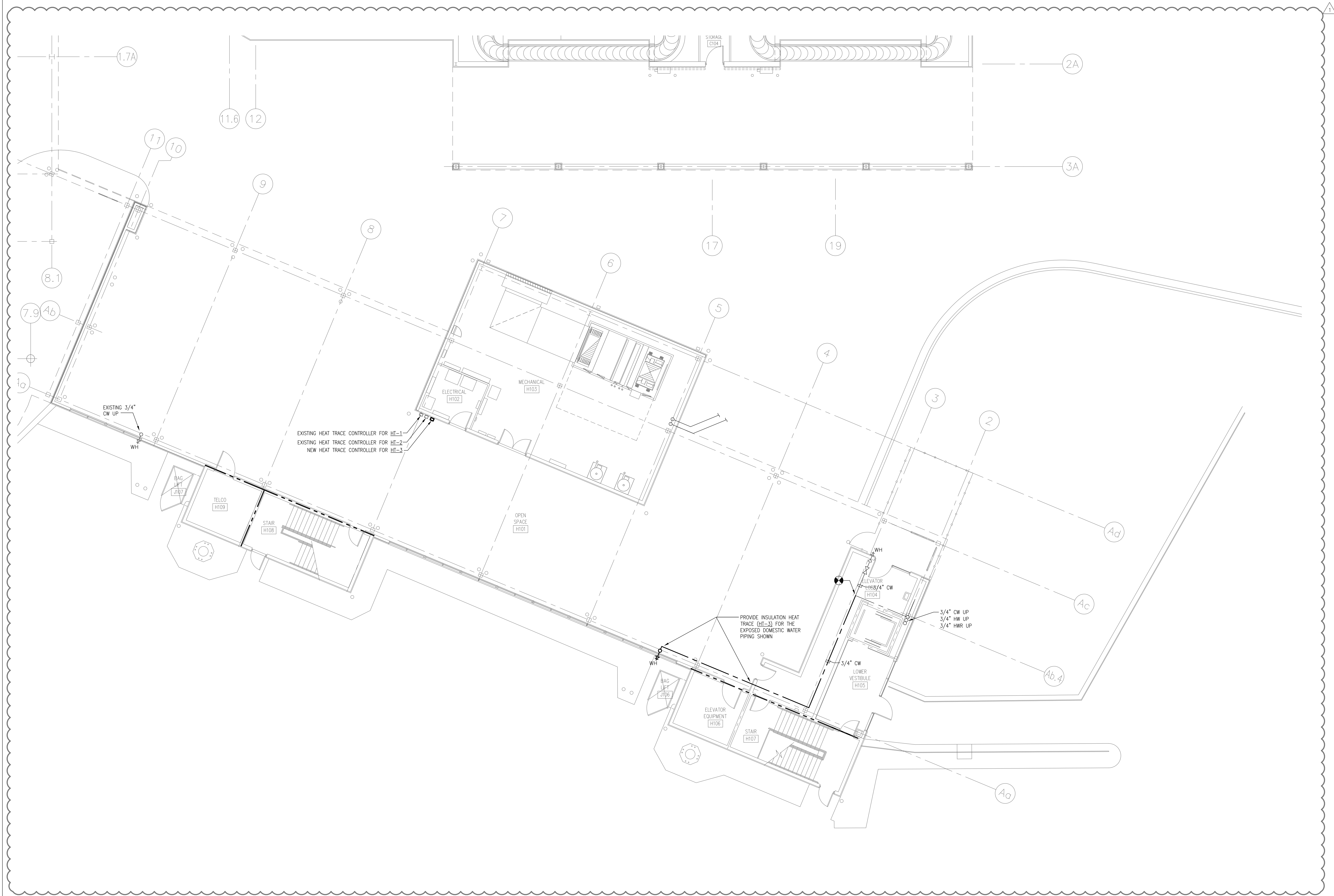
P1.11B



- GENERAL NOTES:
- A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING.
- DRAWING NOTES:
1. CONNECT EXISTING CW, HW, AND HWR TO NEW PLUMBING FIXTURES.
2. PROVIDE 1/2" CW CONNECTION TO VALVE BOX FOR REFRIGERATOR

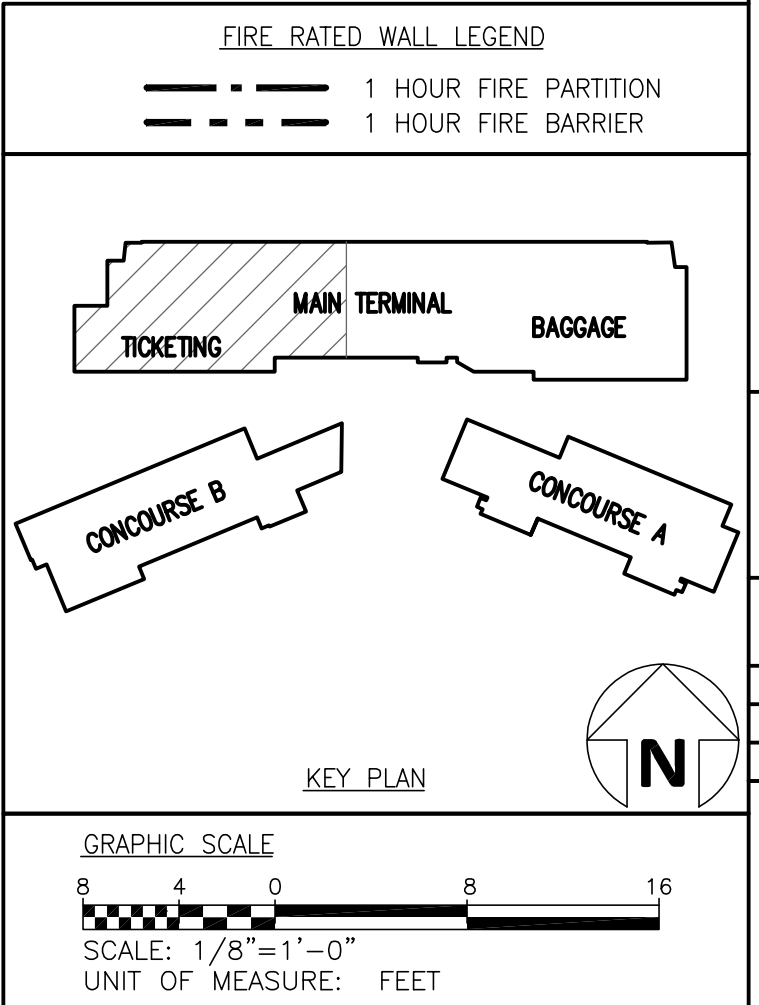
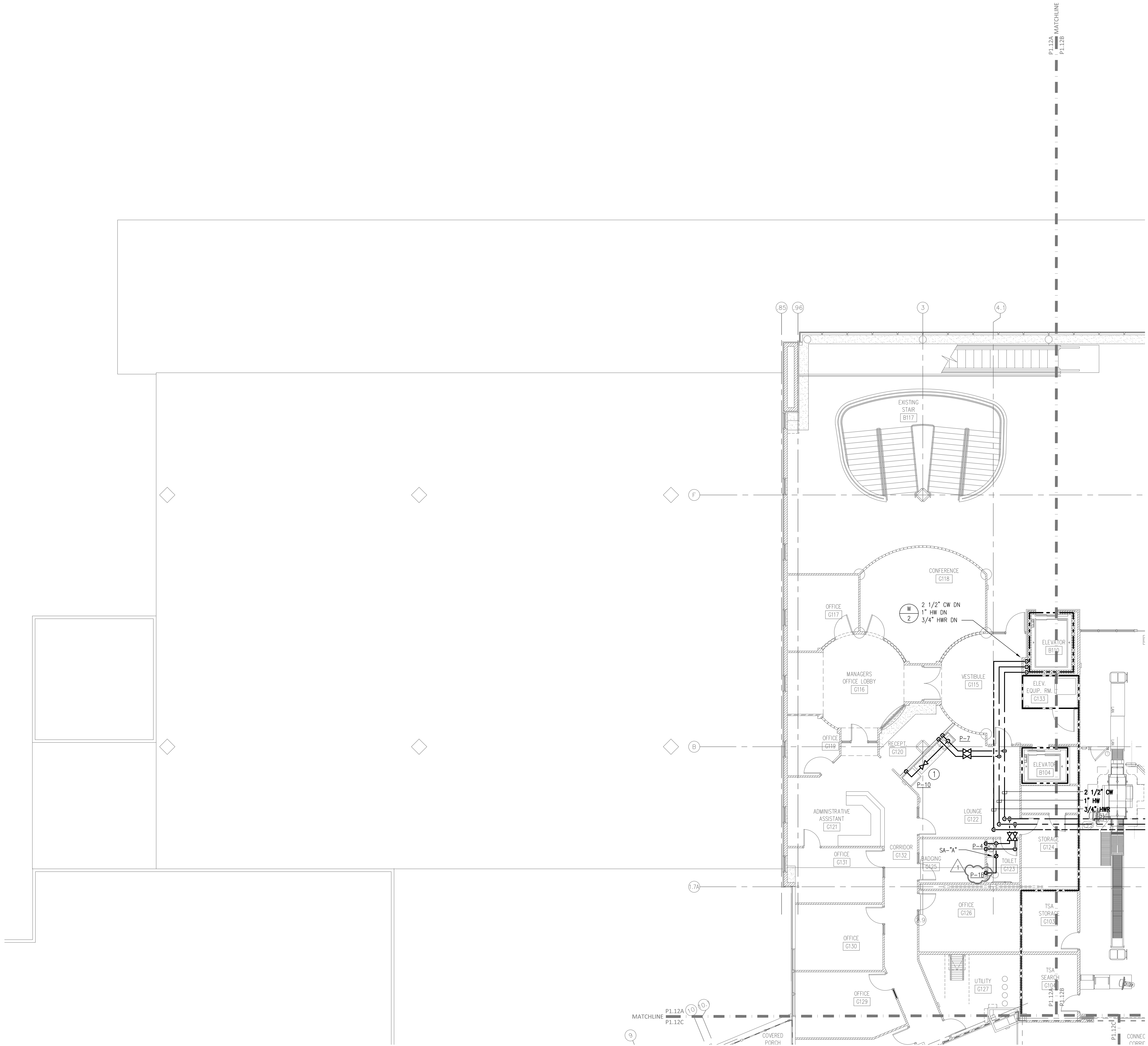








GENERAL NOTES:  
A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING.  
DRAWING NOTES:  
① PROVIDE 1/2" CW CONNECTION TO VALVE BOX FOR REFRIGERATOR.





A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING

1) CONNECT NEW CW PIPIN TO EXISTING.

634 Hoy Street, Suite 4  
Fayetteville, NC 28301  
Phone: (919) 233-2186  
E-Mail: gordon@  
gordonjohnsonarchitecture.com  
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SECOND FLOOR PLAN – AREA B – DOMESTIC WATER

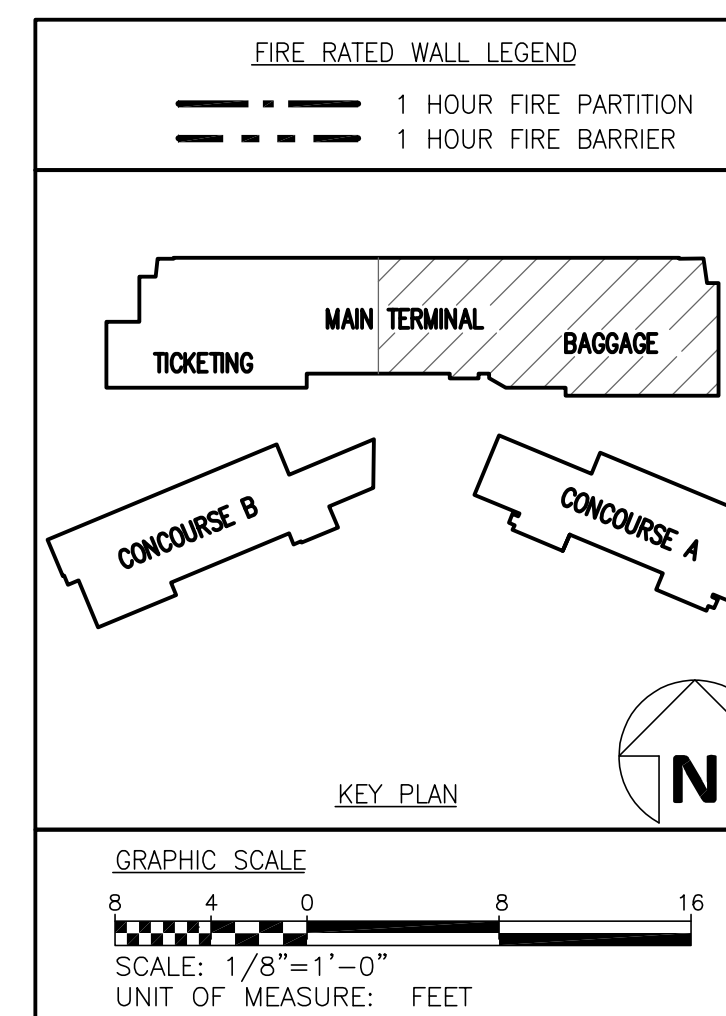
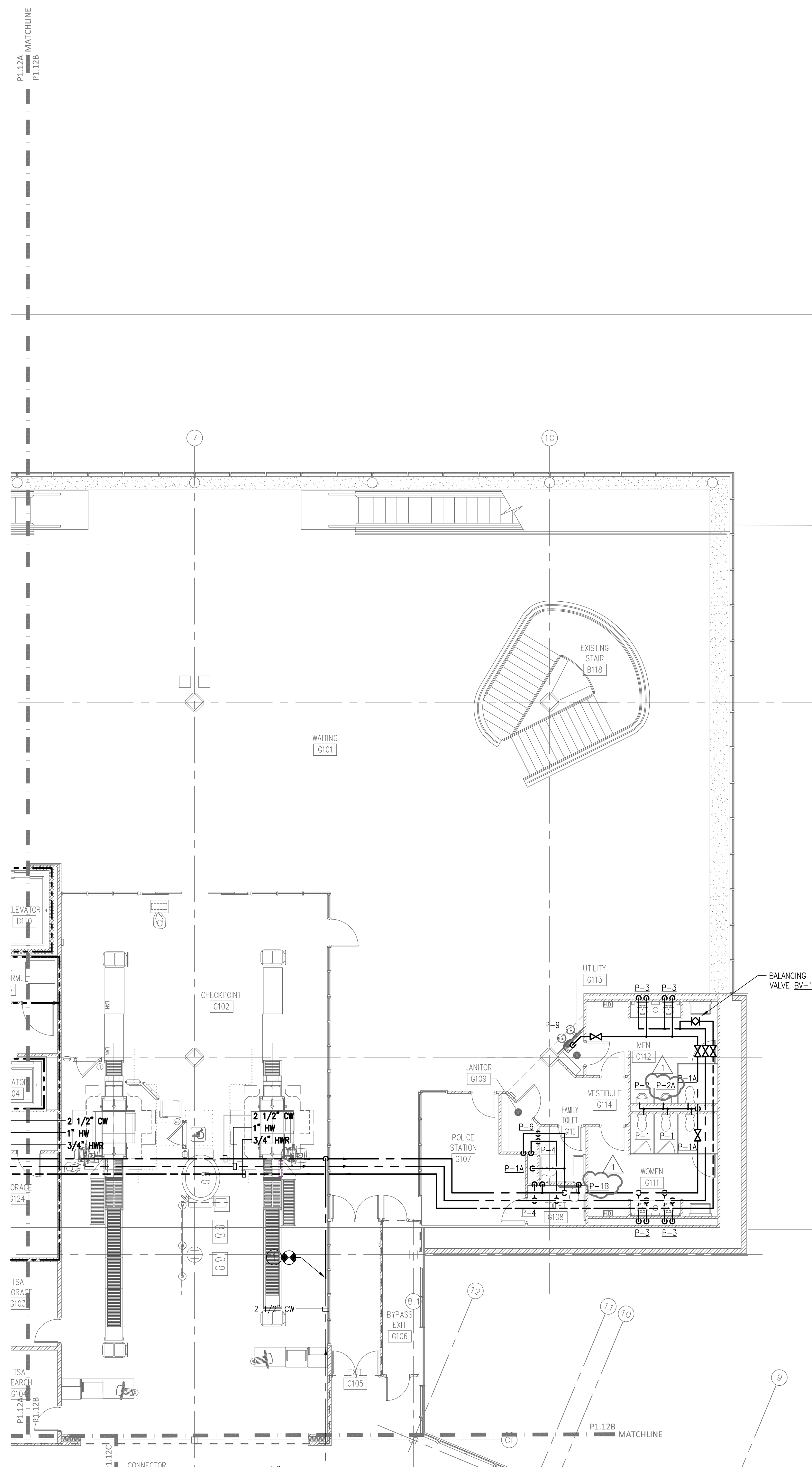
DRAWN BY: MRT  
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REVISIONS

REV	DESCRIPTION	DATE
1	CBP #1	09/01/20

SHEET NUMBER

P1.12B





A. SEE RISER DIAGRAM FOR COMPLETE PIPE SIZING

- ① EXISTING PLUMBING FIXTURE TO REMAIN
- ② CONNECT NEW CW PIPING TO EXISTING.

- ① EXISTING PLUMBING FIXTURE TO REMAIN
- ② CONNECT NEW CW PIPING TO EXISTING.
- ③ NOT USED.
- ④ INSTALL NEW WATER COOLERS IN LOCATION OF DEMOLISHED WATER COOLER. UTILIZE EXISTING SANITARY AND VENT CONNECTIONS. WATER COOLERS SHOULD BE INDIVIDUALLY MOUNTED ON EITHER SIDE OF THE EXISTING COLUMN. ONE WATER COOLER SHOULD BE MOUNTED FOR ADJ. REQUIREMENTS

654 Hoy Street, Suite 4  
Fayetteville, NC 28301  
Phone: (919) 223-2186  
E-Mail: garden@

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SECOND FLOOR PLAN - AREA C - DOMESTIC WATER

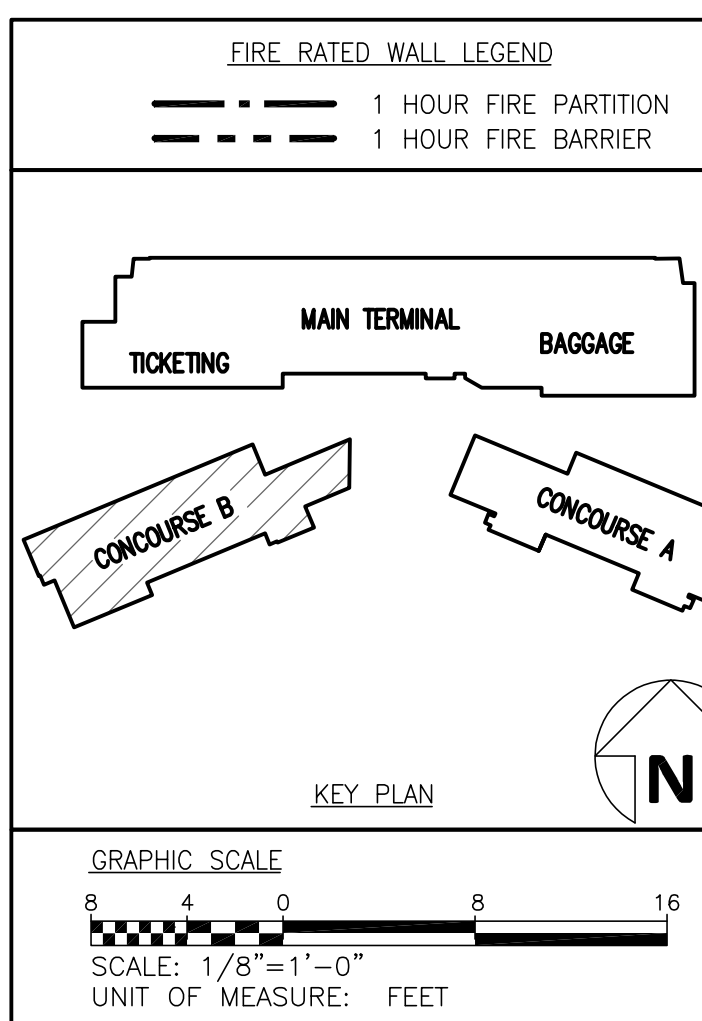
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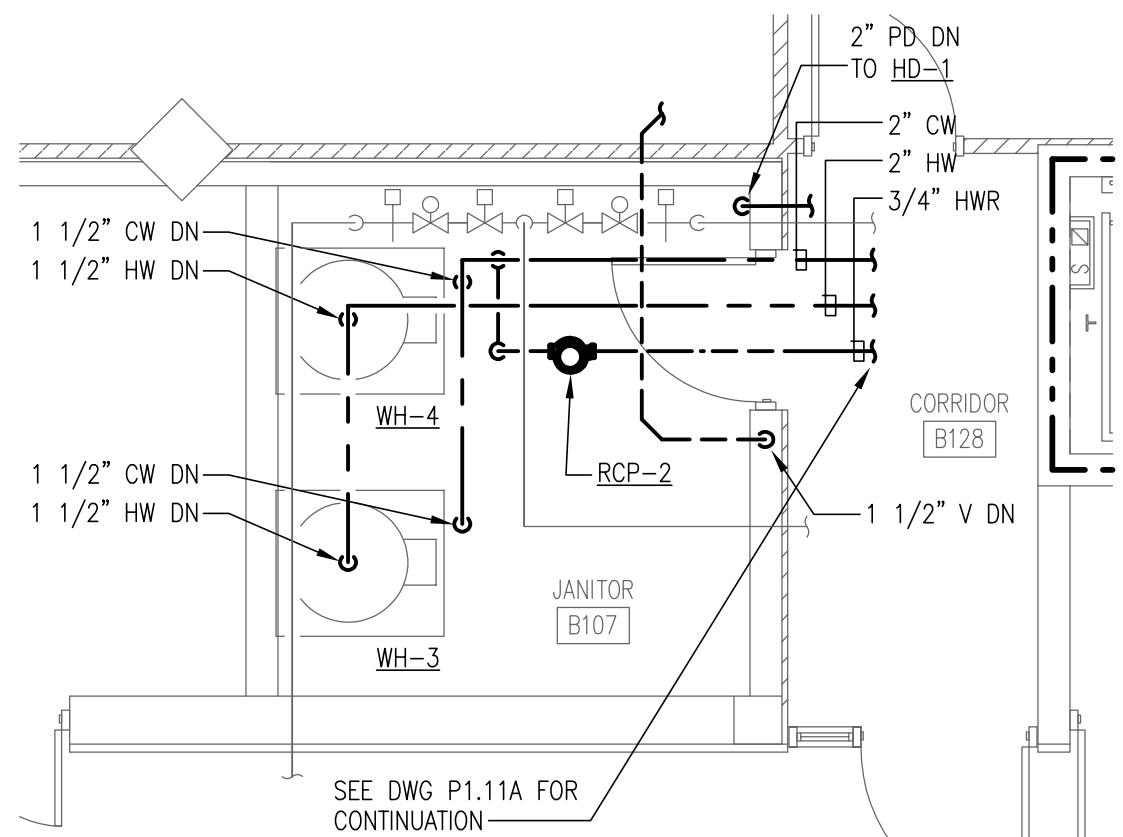
1	CBP#1	09/01/20
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SHEET NUMBER

P1.12C

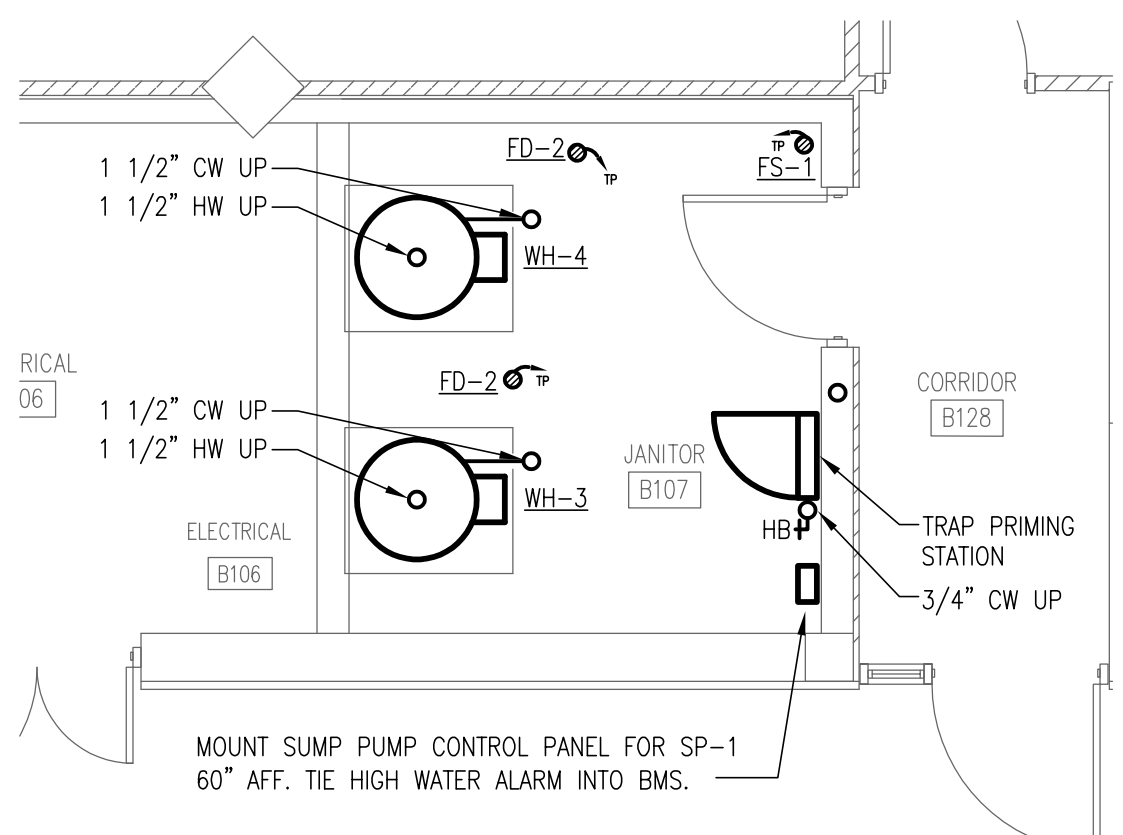






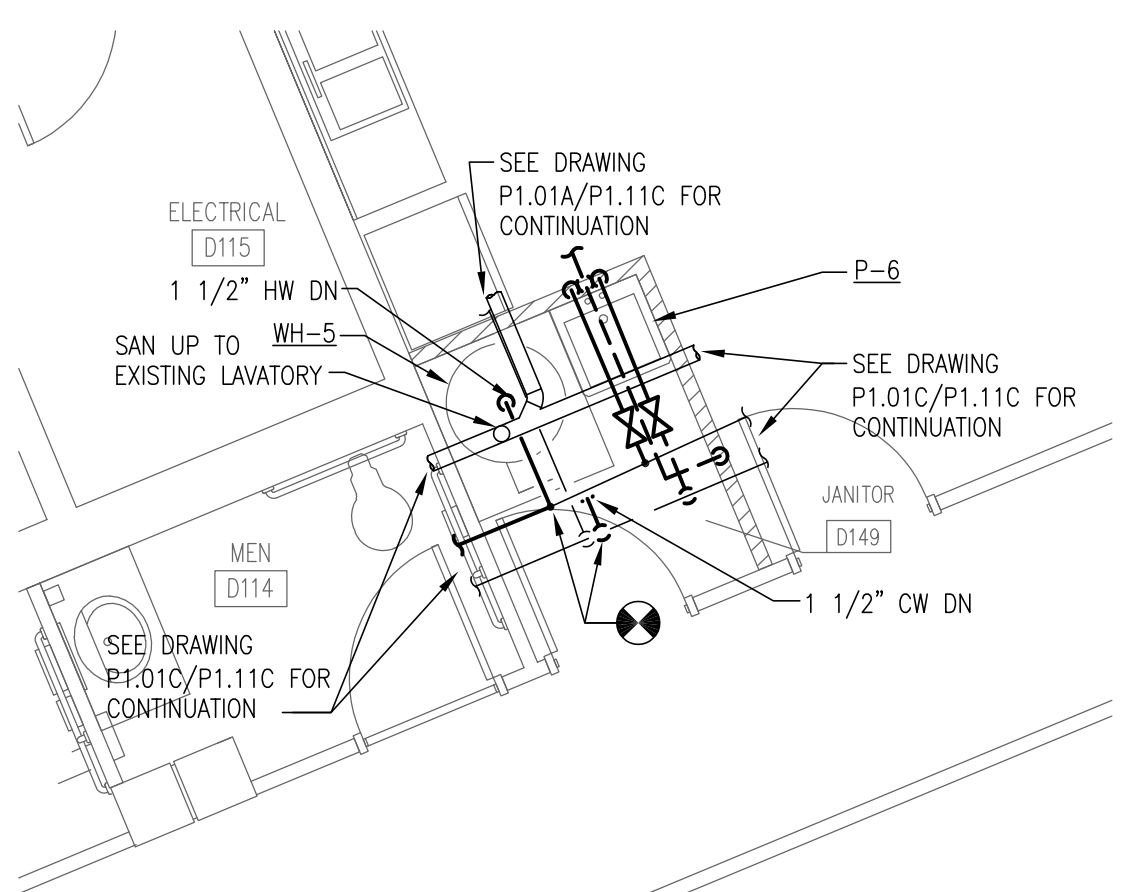
JANITOR B107 ENLARGED PLAN-UPPER LEVEL

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



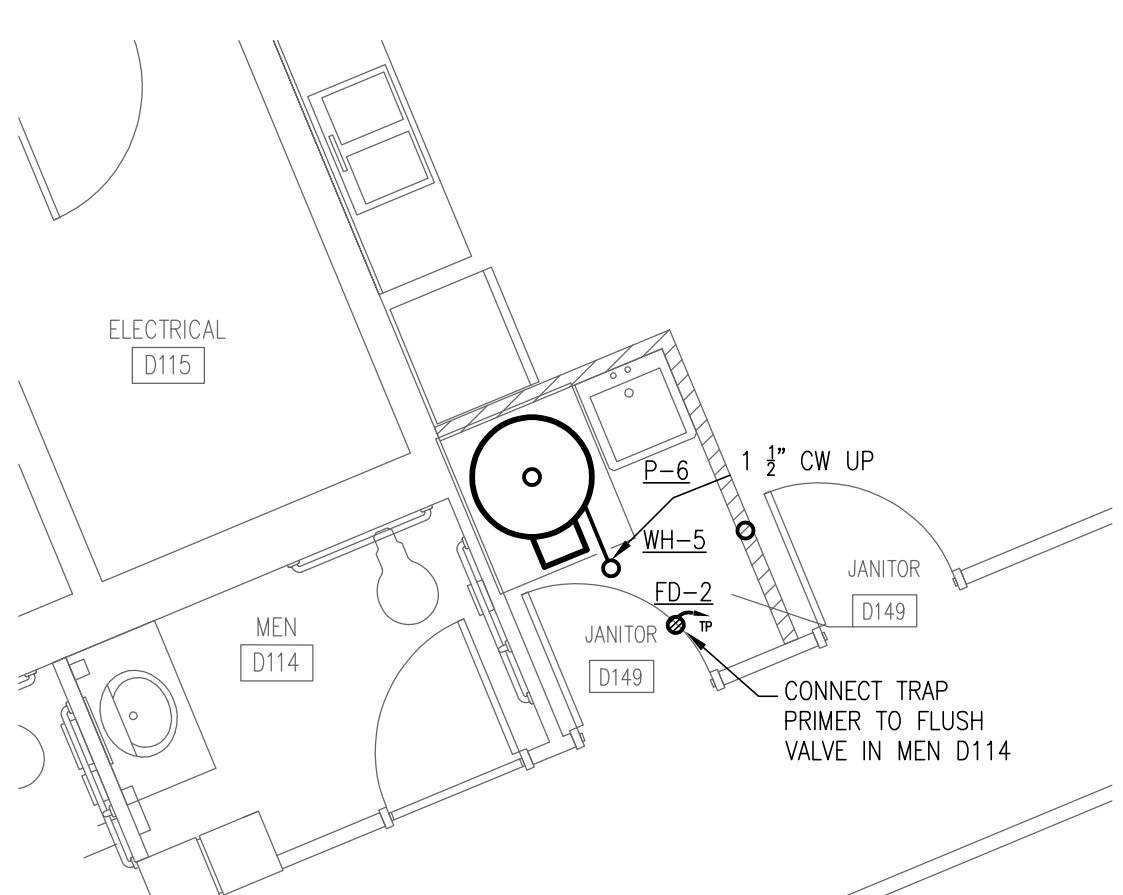
JANITOR B107 ENLARGED PLAN-LOWER LEVEL

SCALE: 1/4"=1'-0" 2



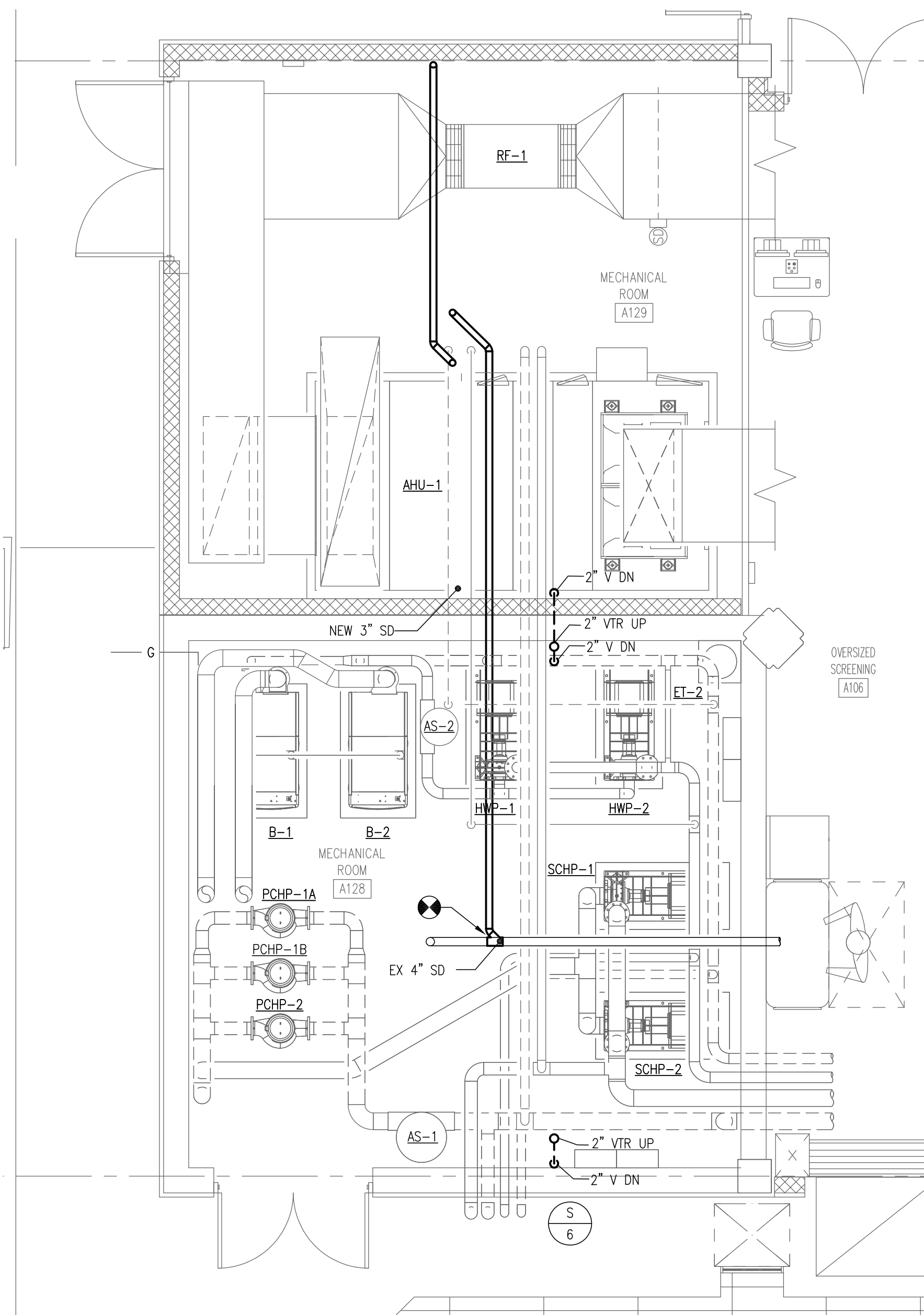
ENLARGED PLAN - UPPER LEVEL

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



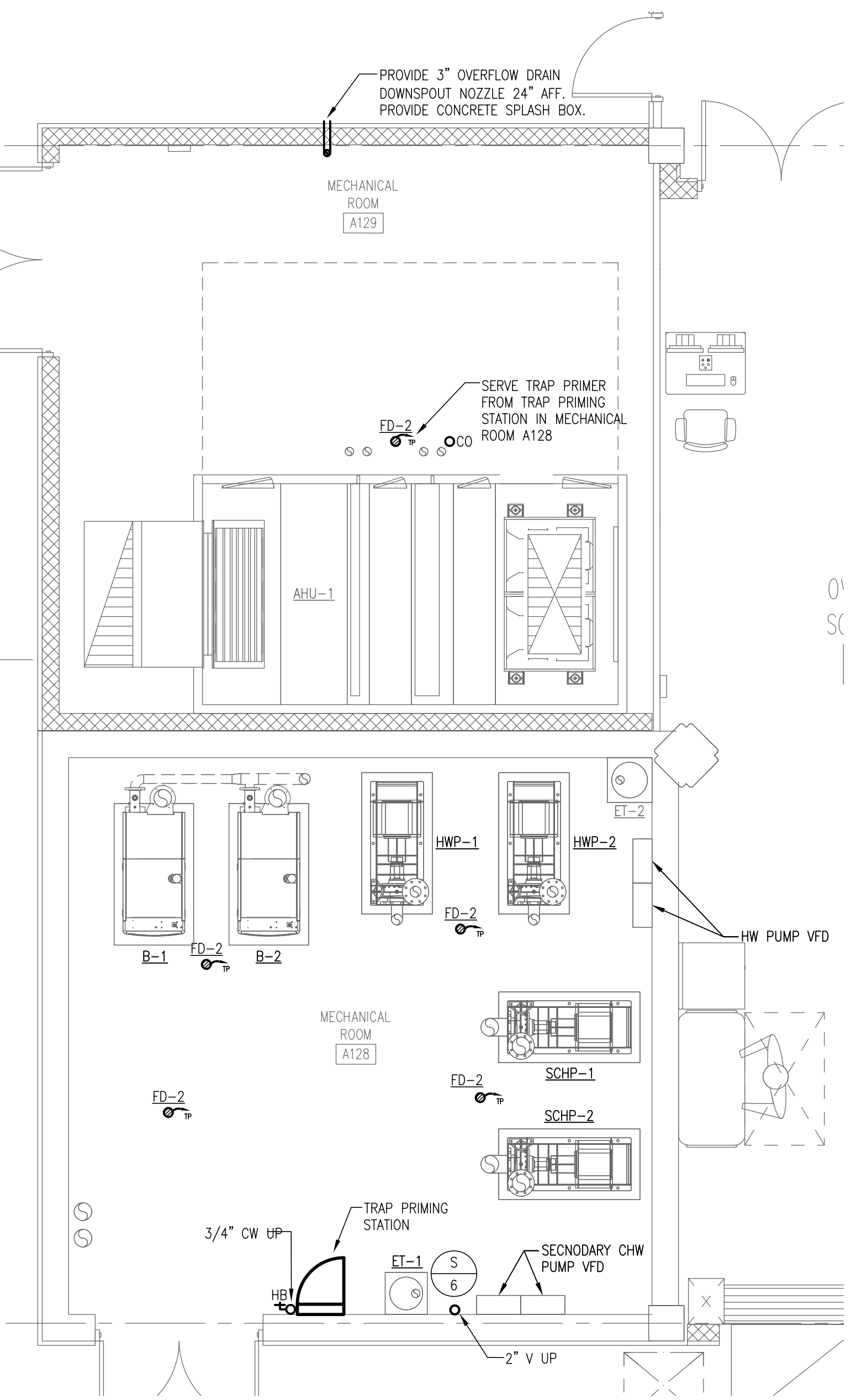
ENLARGED PLAN - LOWER LEVEL

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



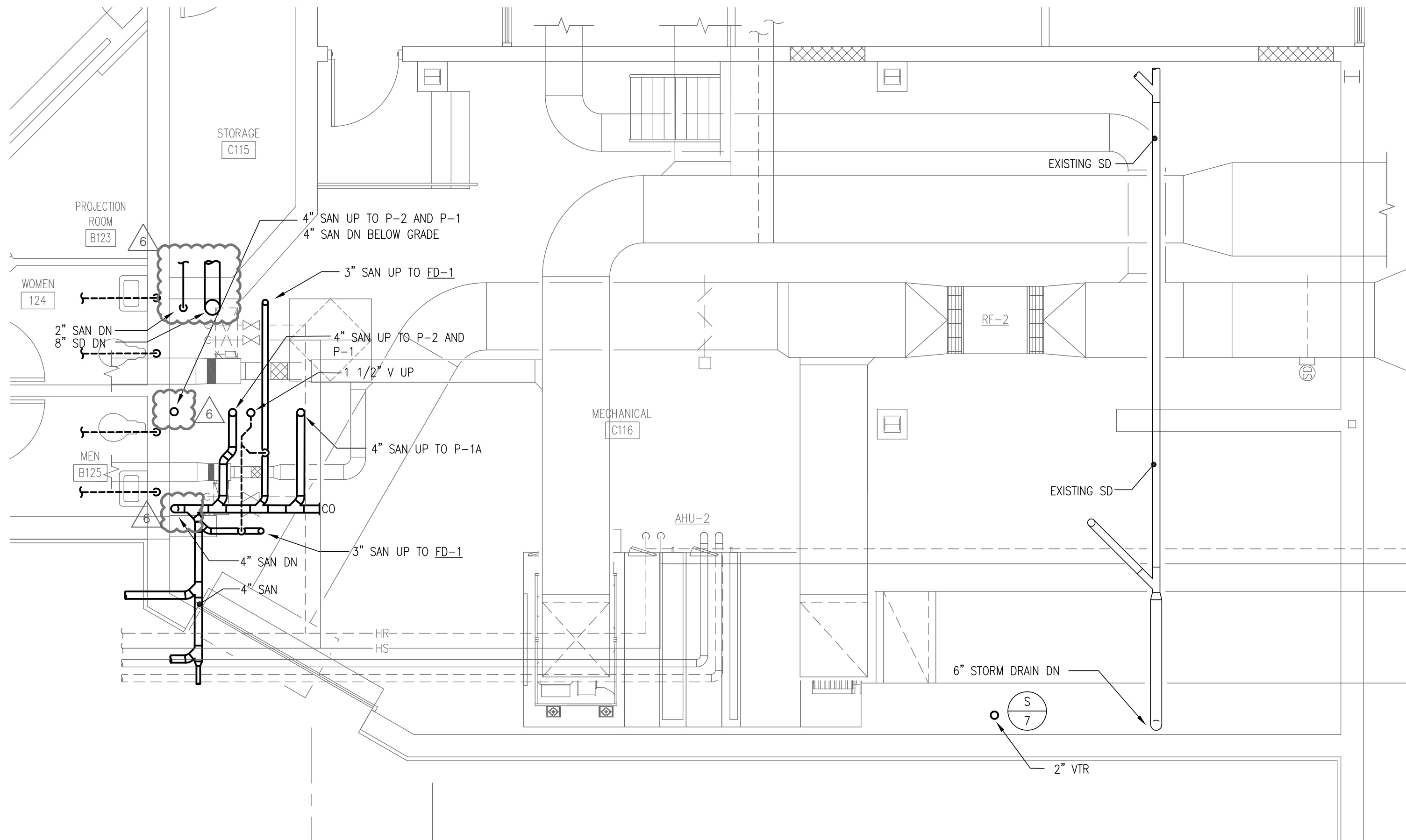
MECH RM A128 & A129 ENLARGED PLAN - UPPER LEVEL

SCALE: 1/4"=1'-0" 6



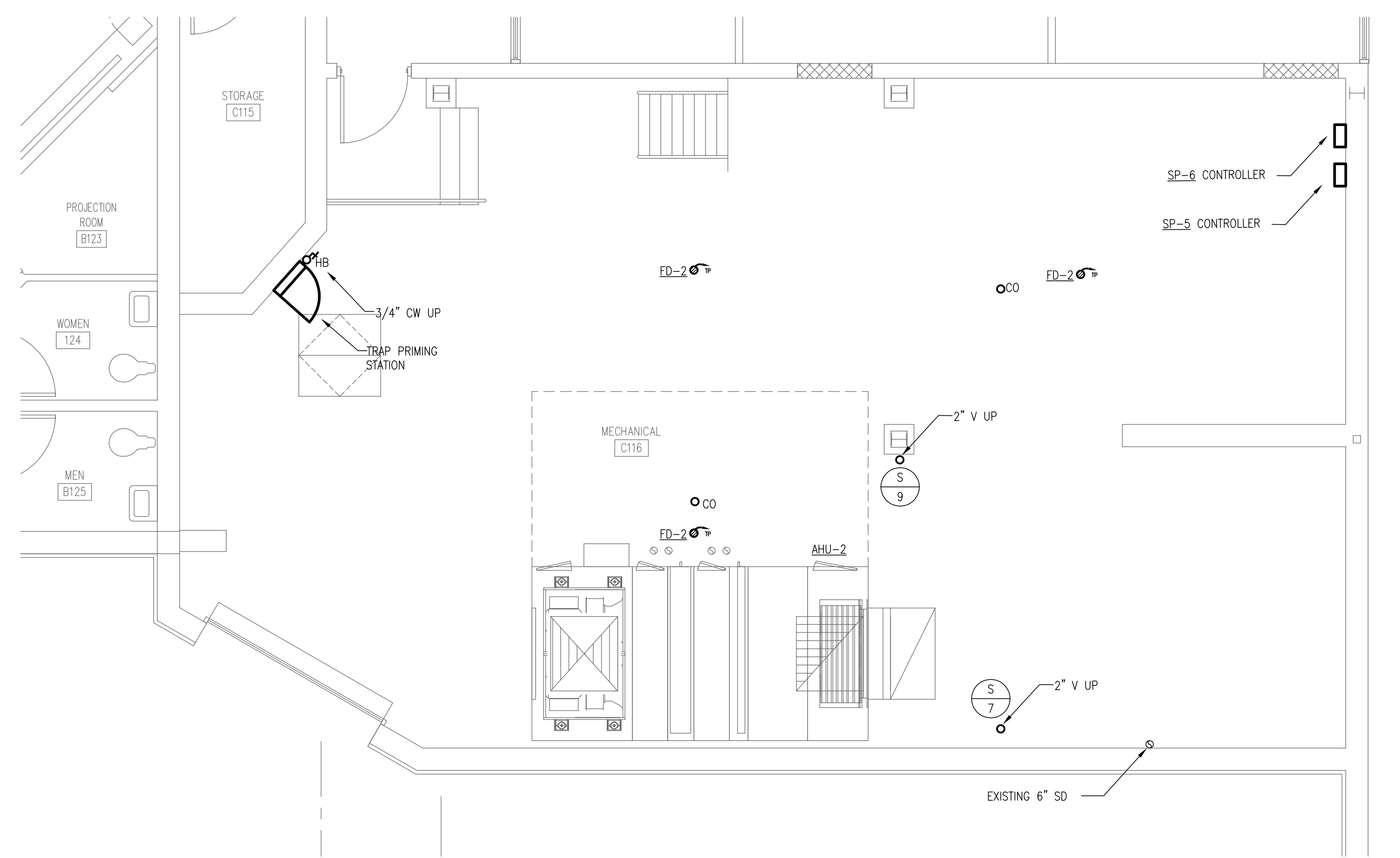
MECH RM A128 & A129 ENLARGED PLAN - LOWER LEVEL

SCALE: 1/4"=1'-0" 6



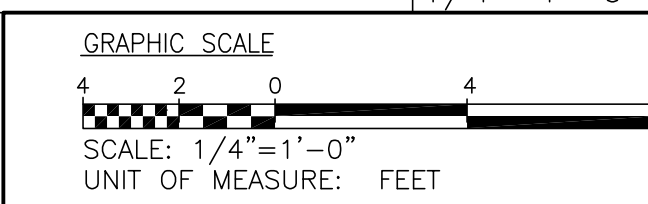
MECH RM C116 ENLARGED PLAN - UPPER LEVEL

SCALE: 1/4"=1'-0" 6



MECH RM C116 ENLARGED PLAN - LOWER LEVEL

SCALE: 1/4"=1'-0" 6



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Fayetteville Regional Airport - Airline Terminal Improvements Part 2

ENLARGED PLANS - PLUMBING

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS

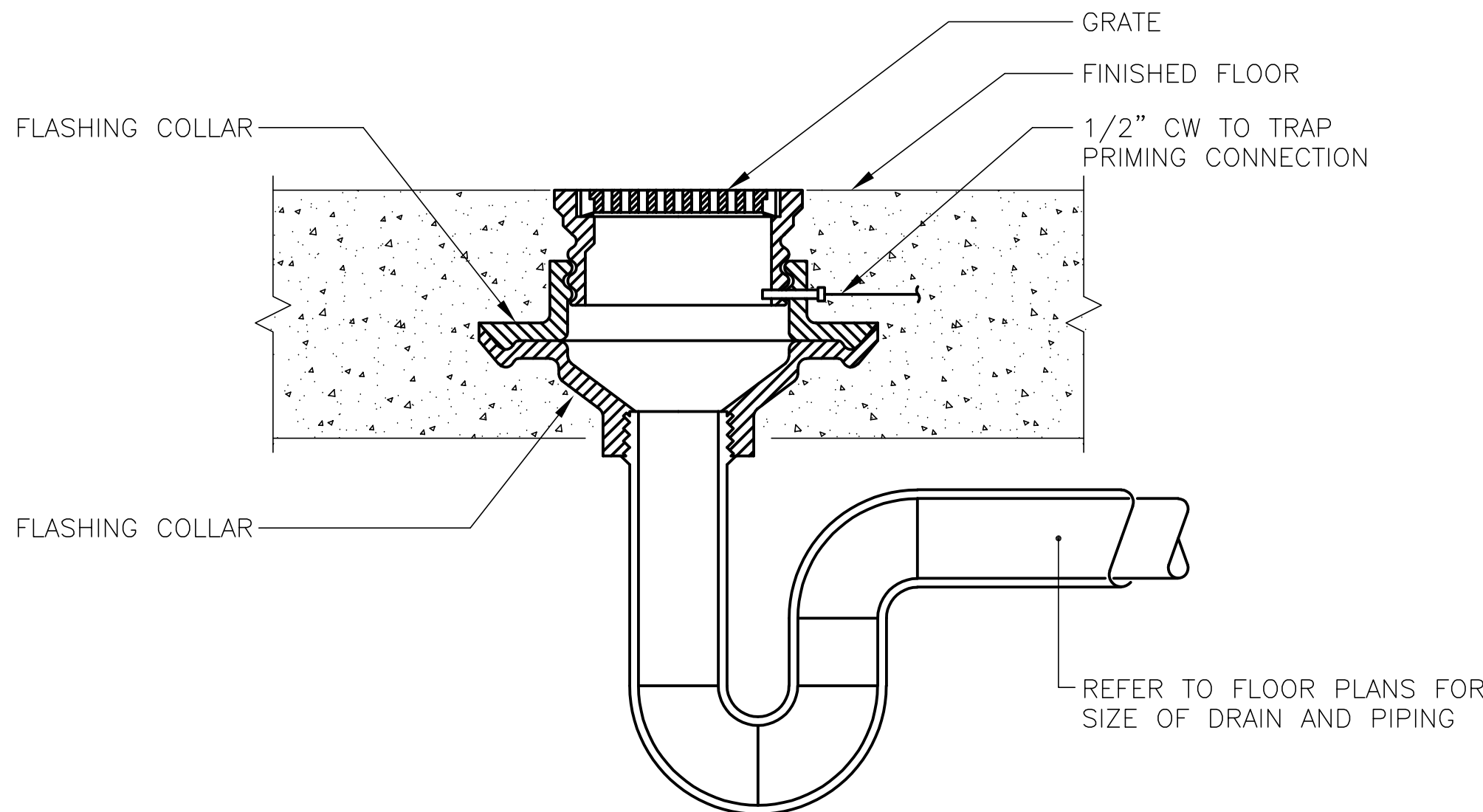
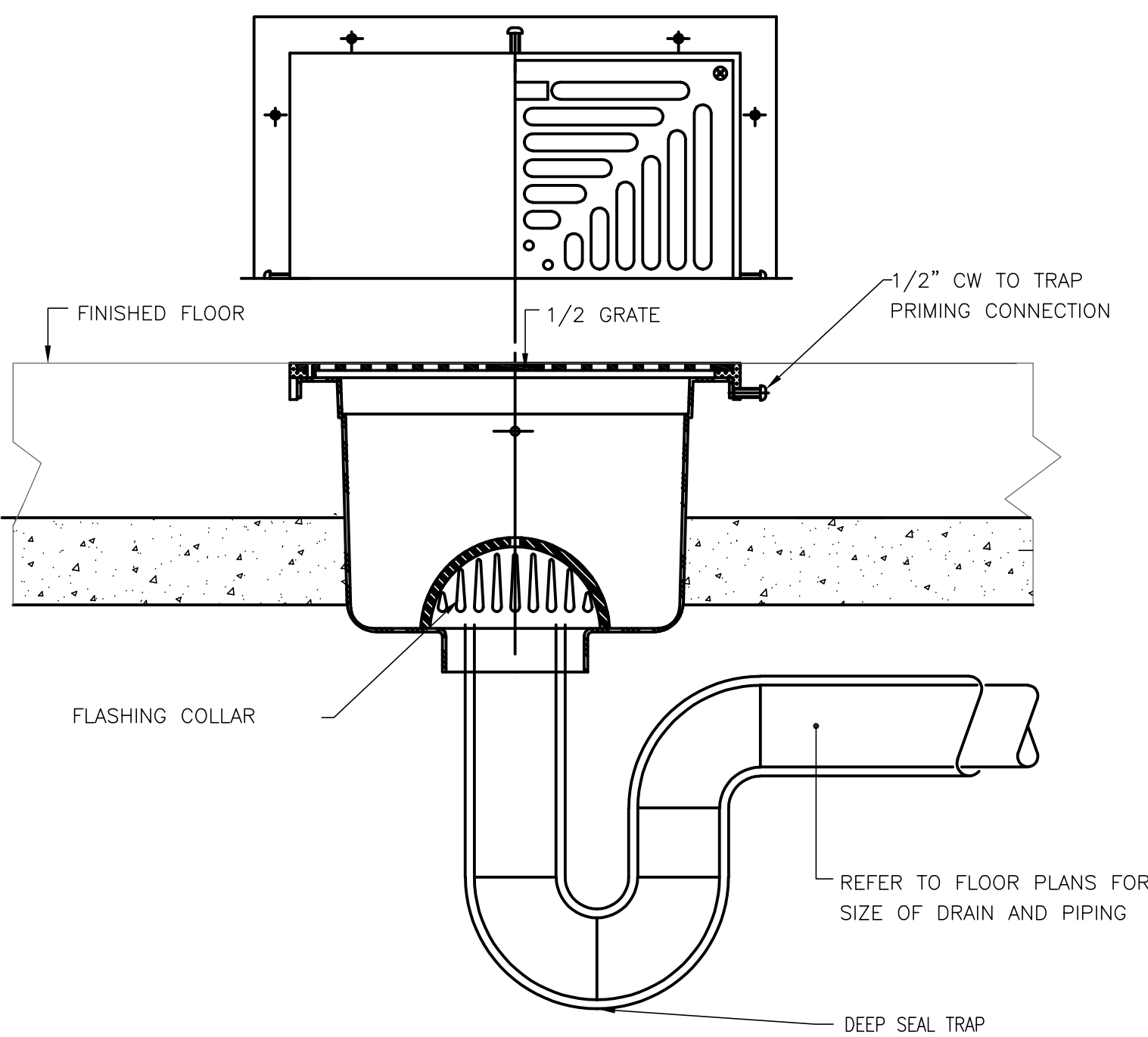
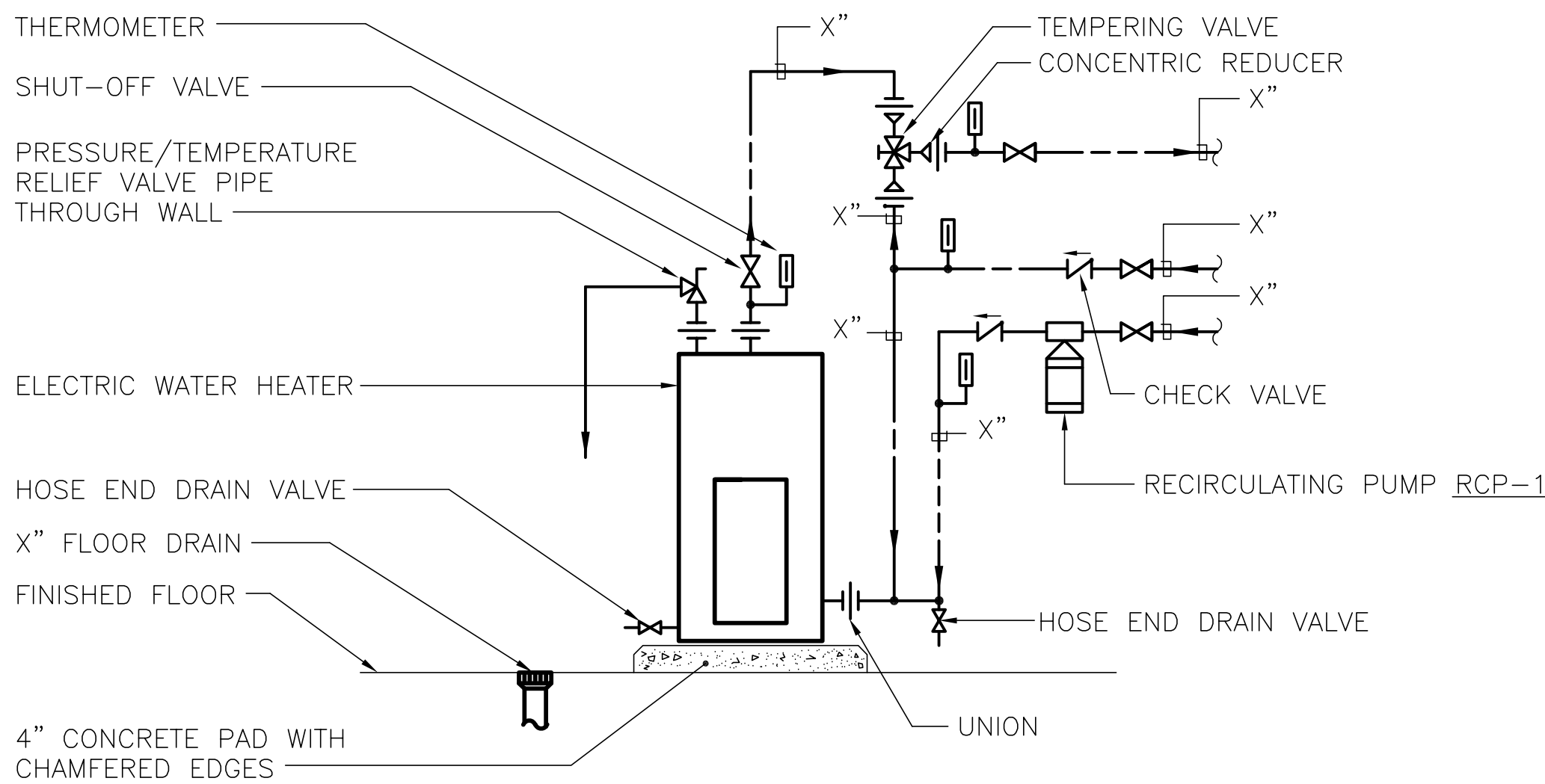
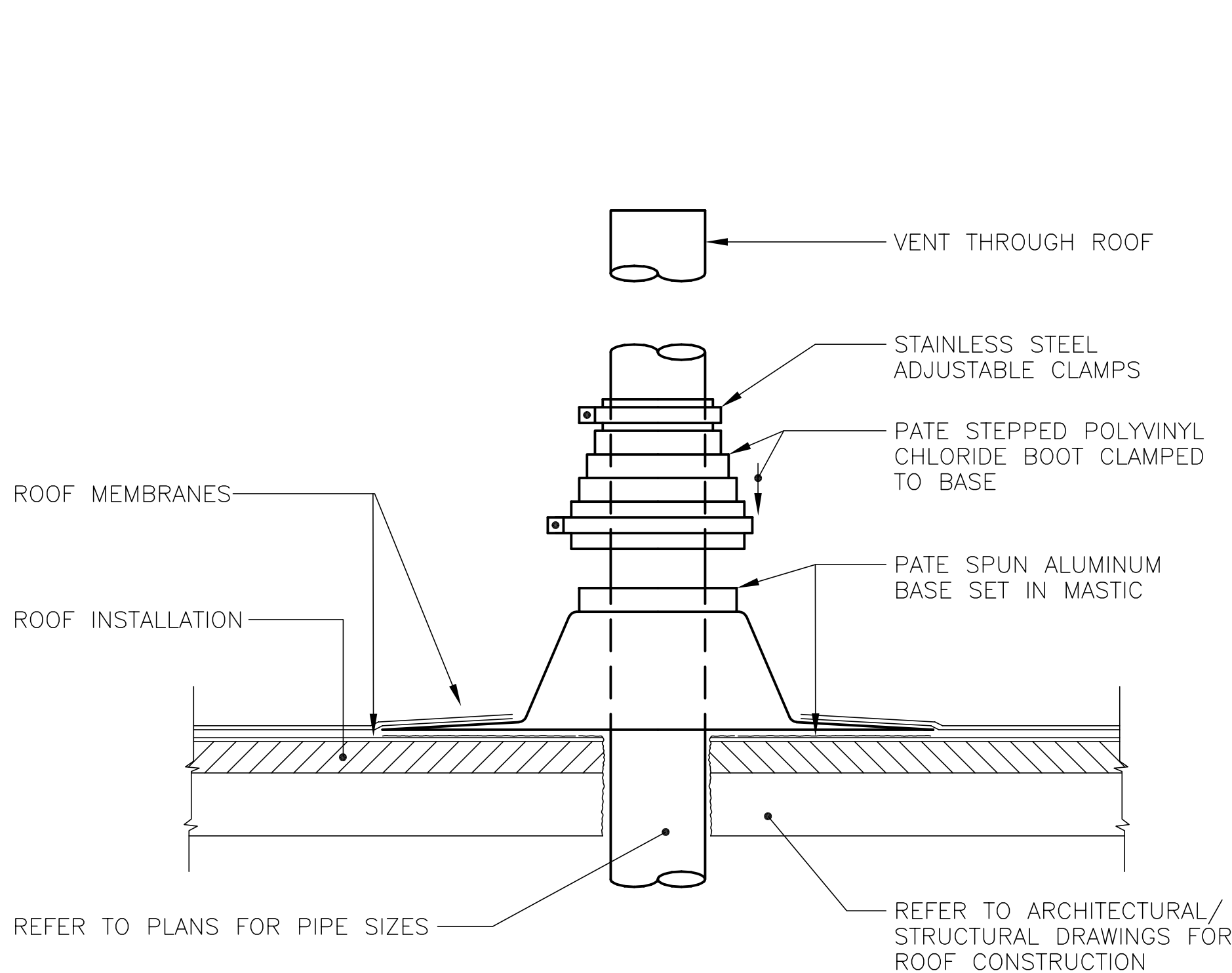
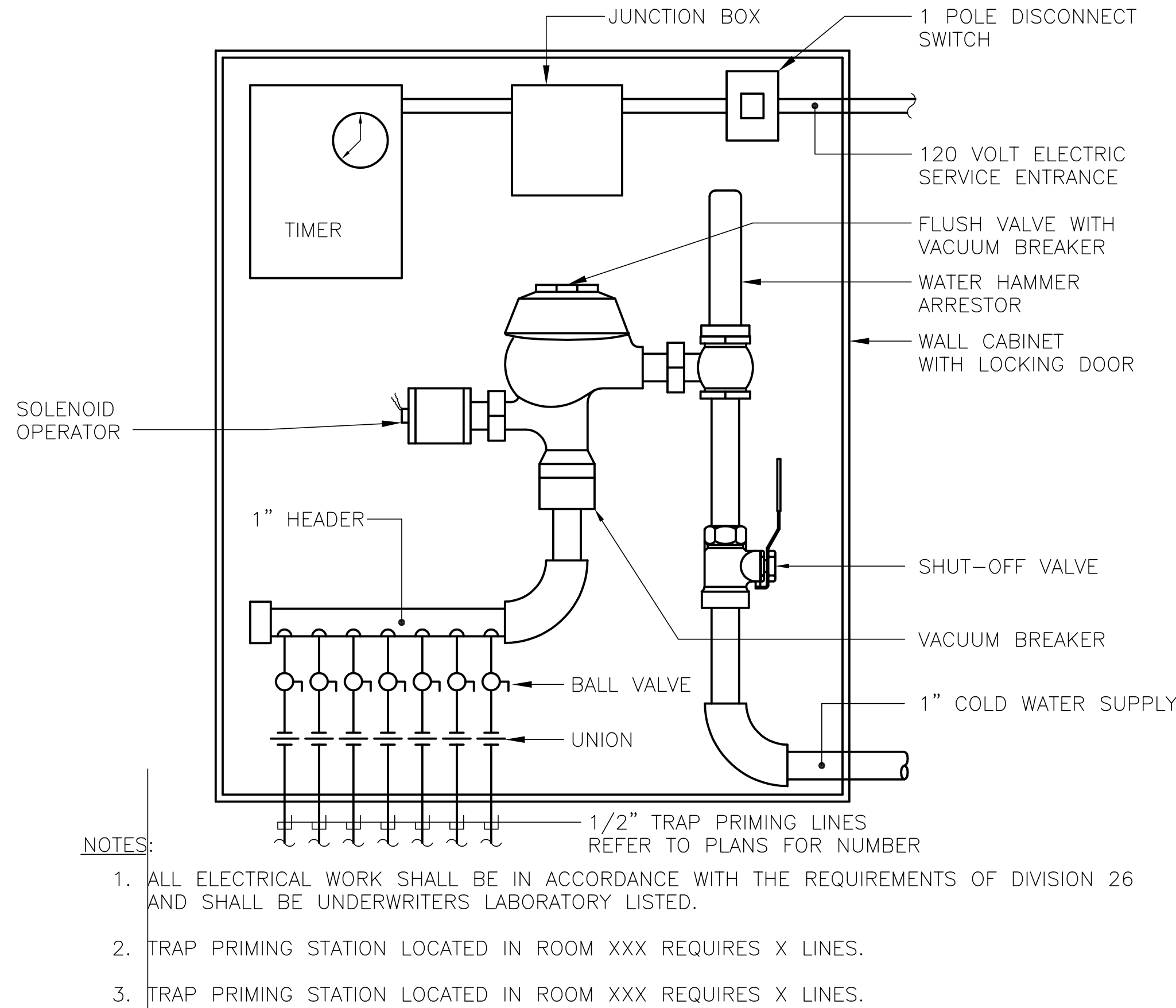
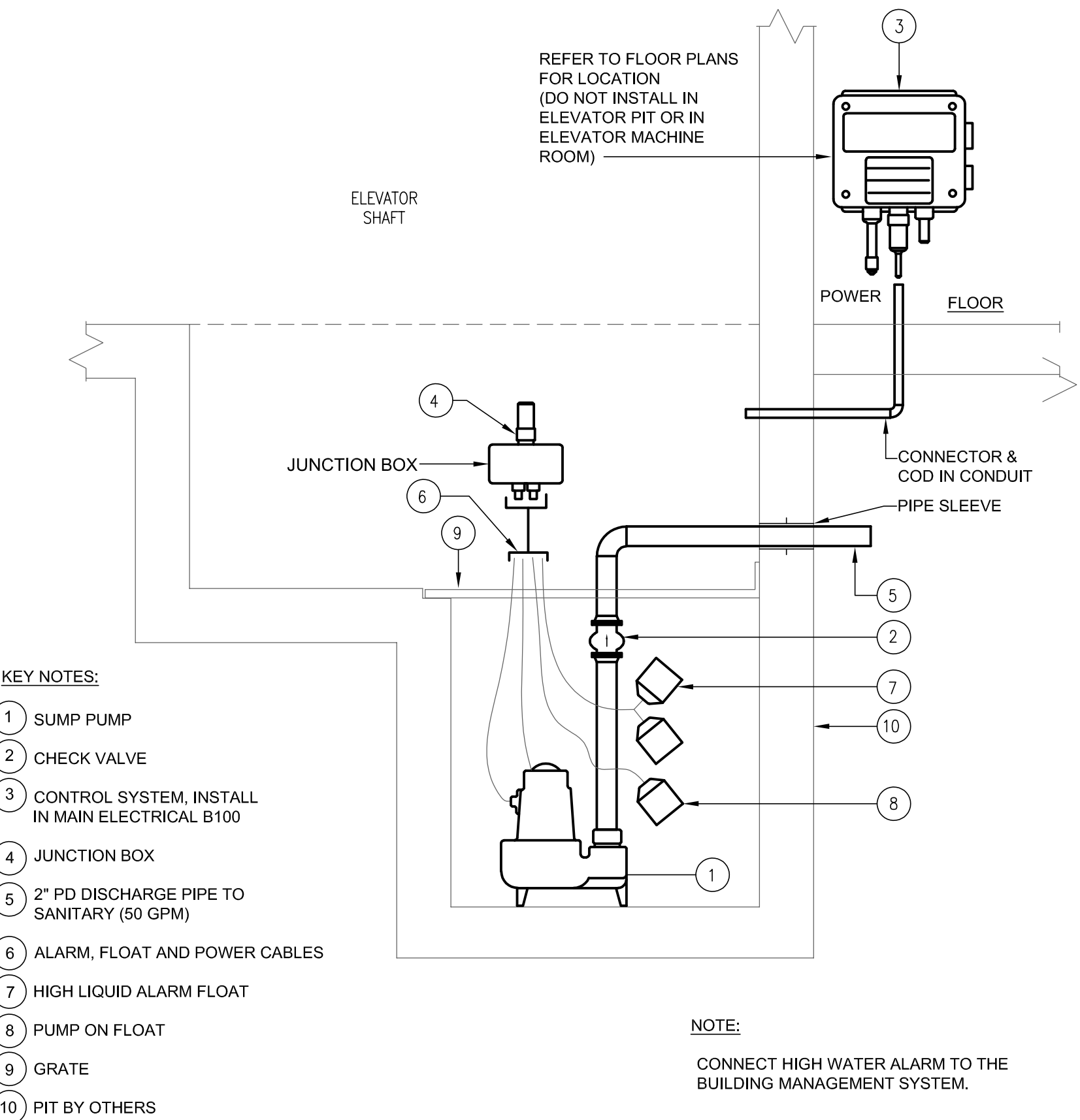
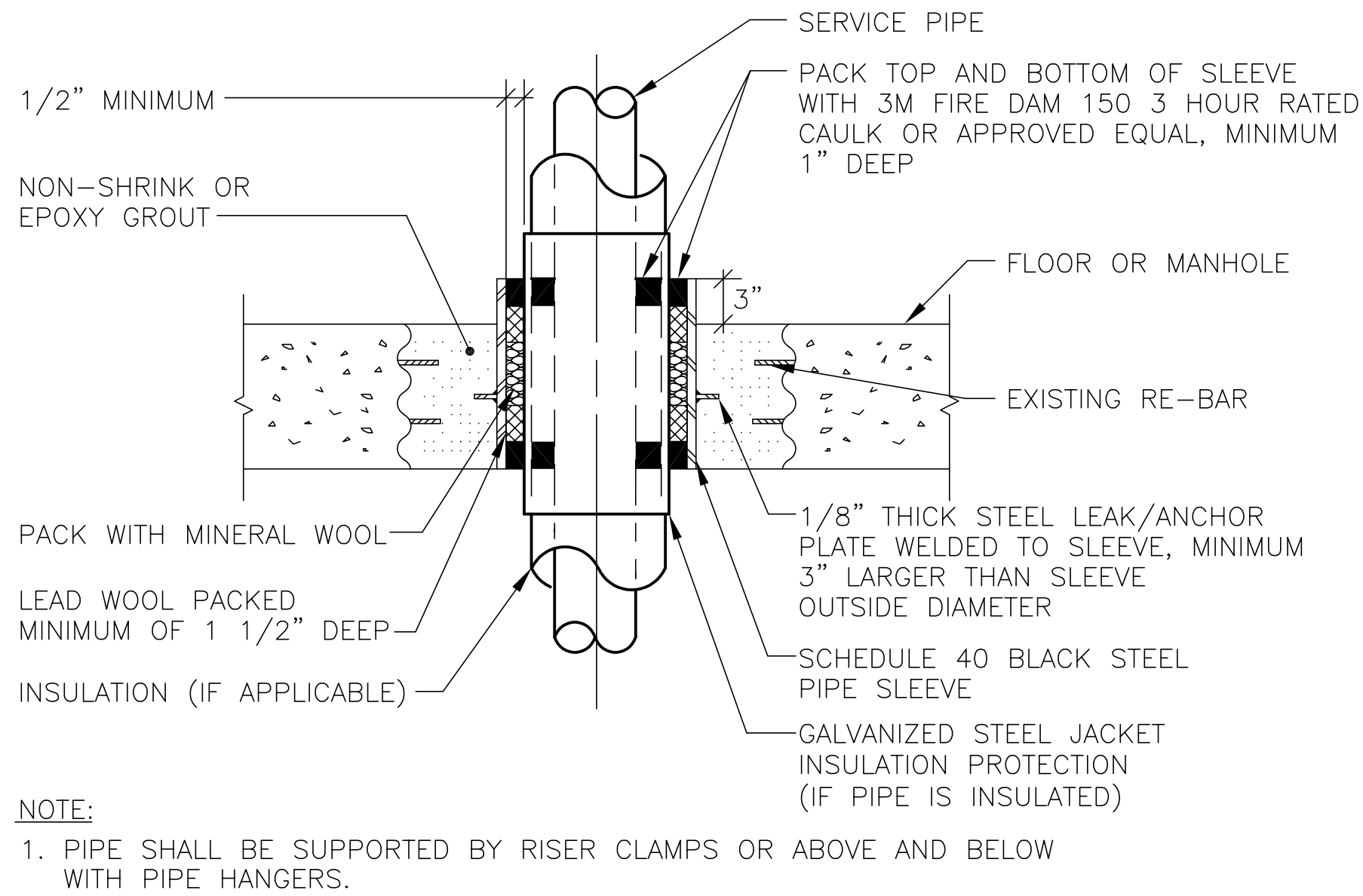
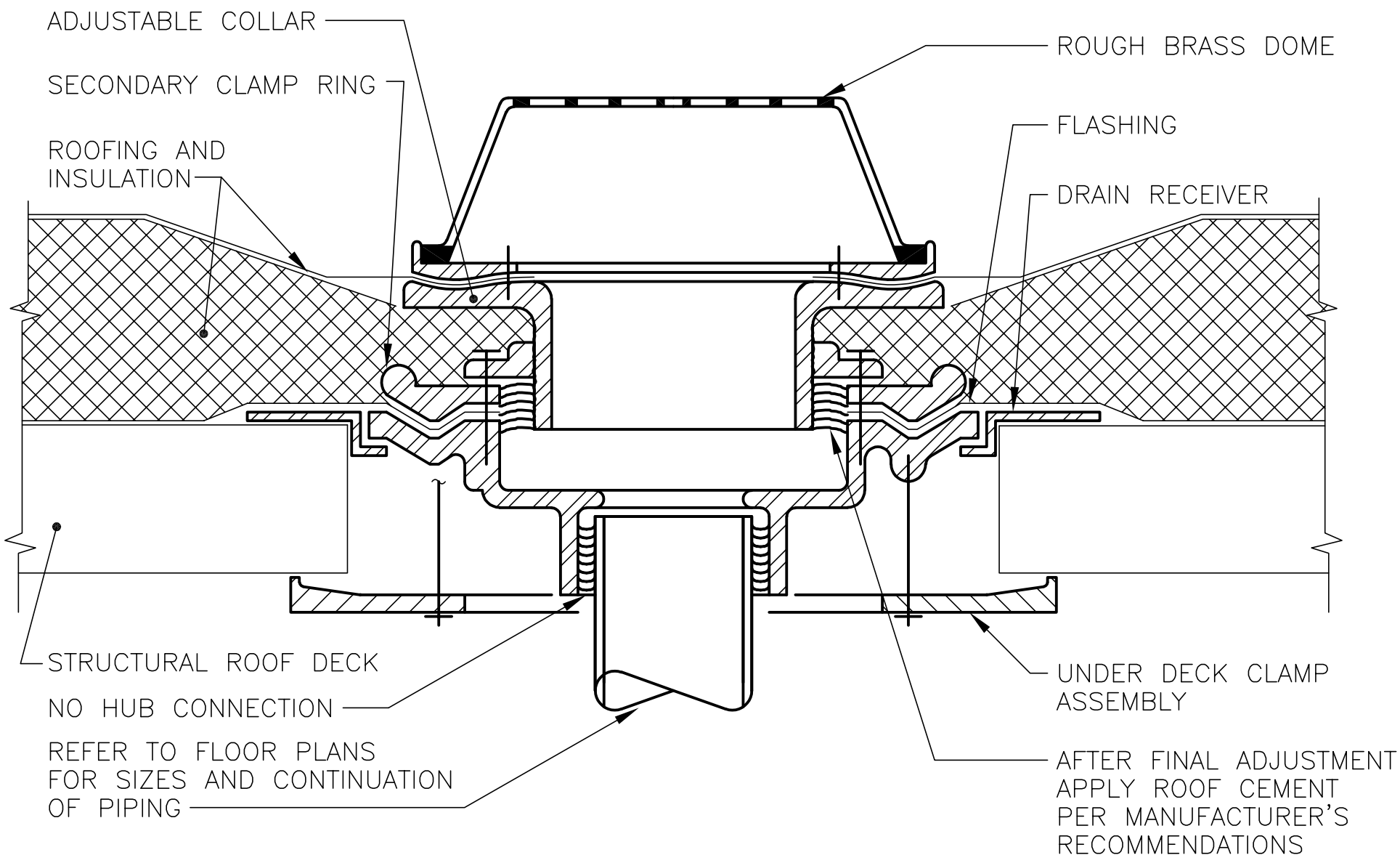
NO.	DESCRIPTION	DATE
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2	CEP#	09/01/20

SHEET NUMBER

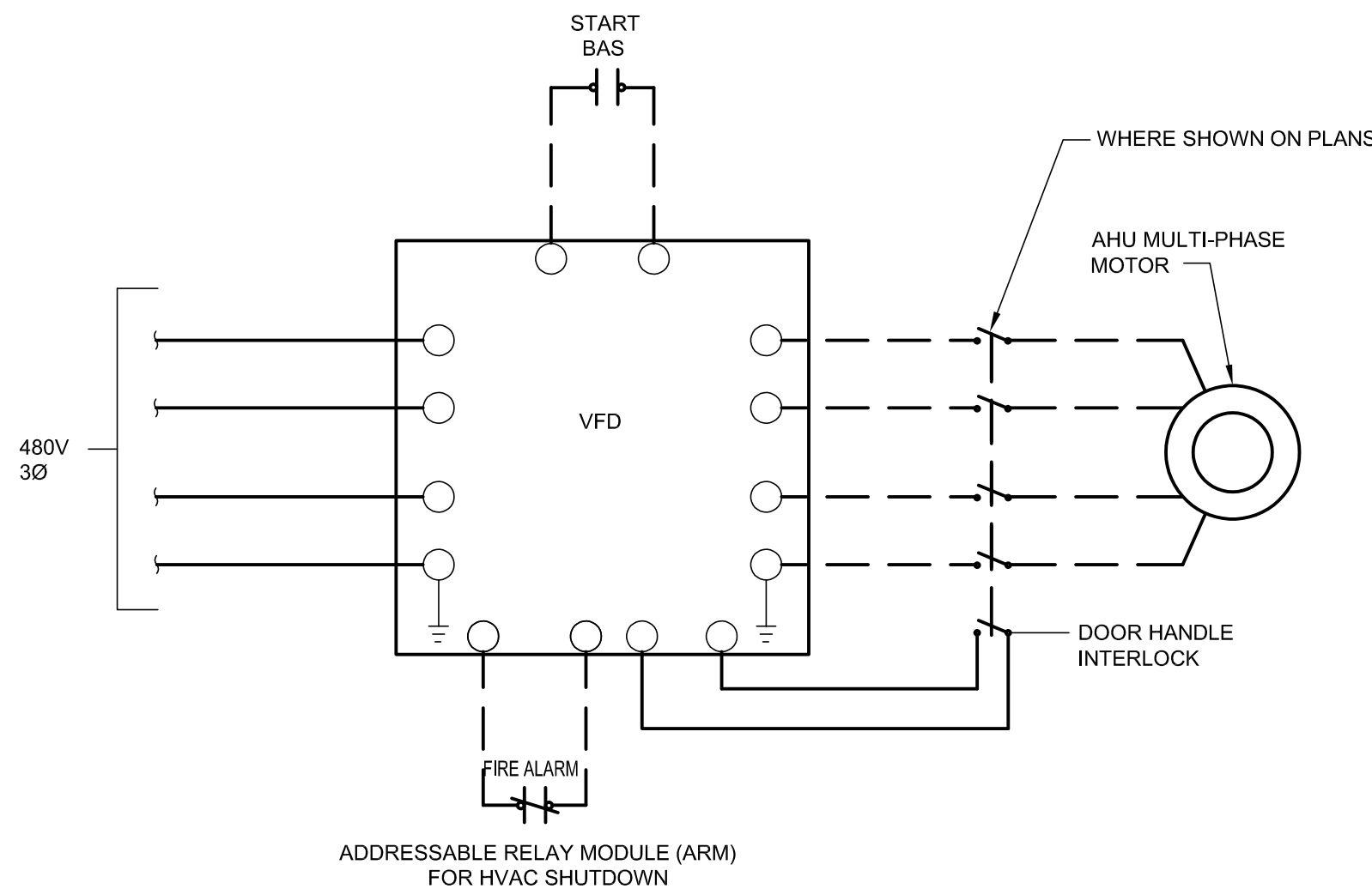
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UNIT OF MEASURE: FEET



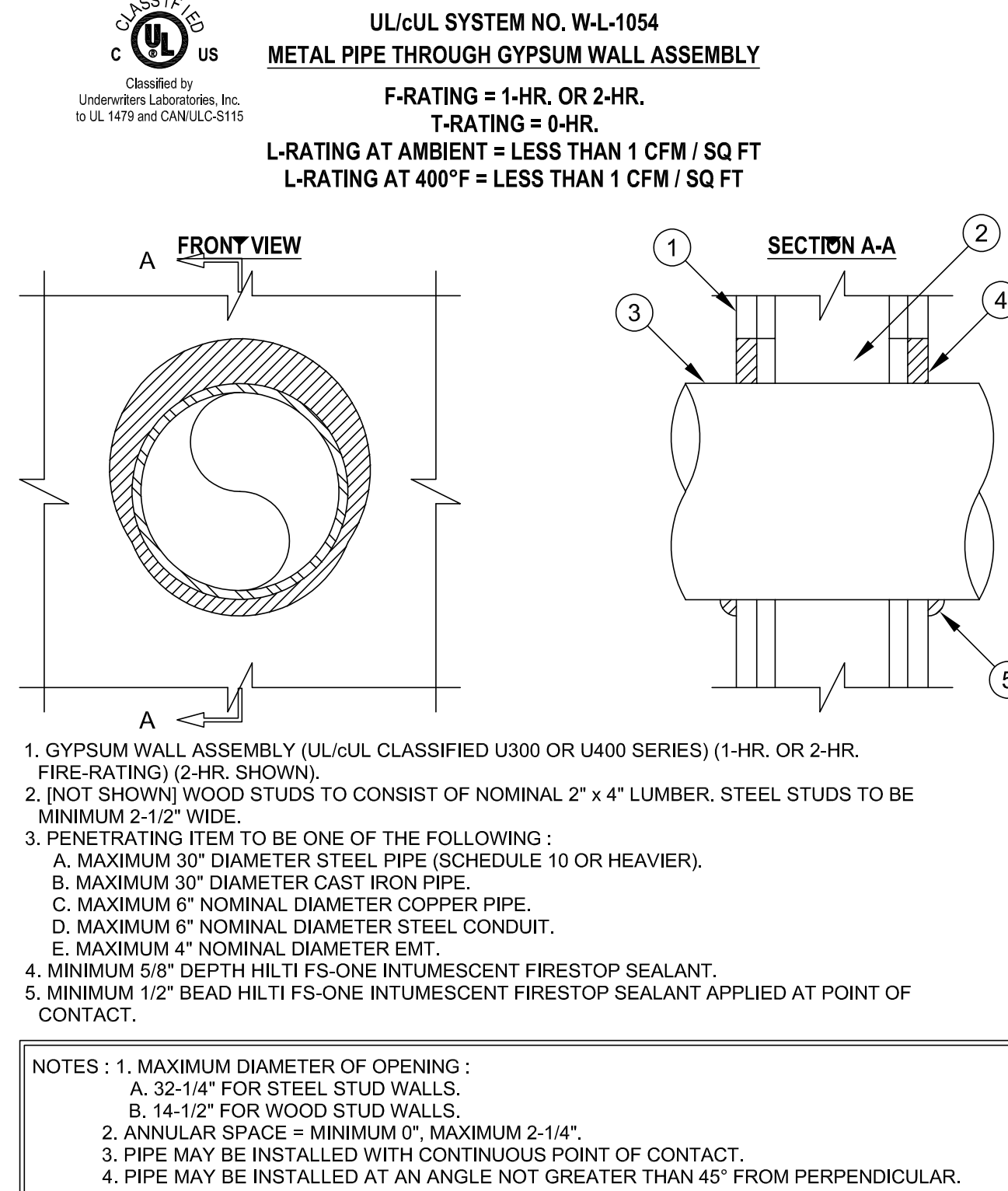






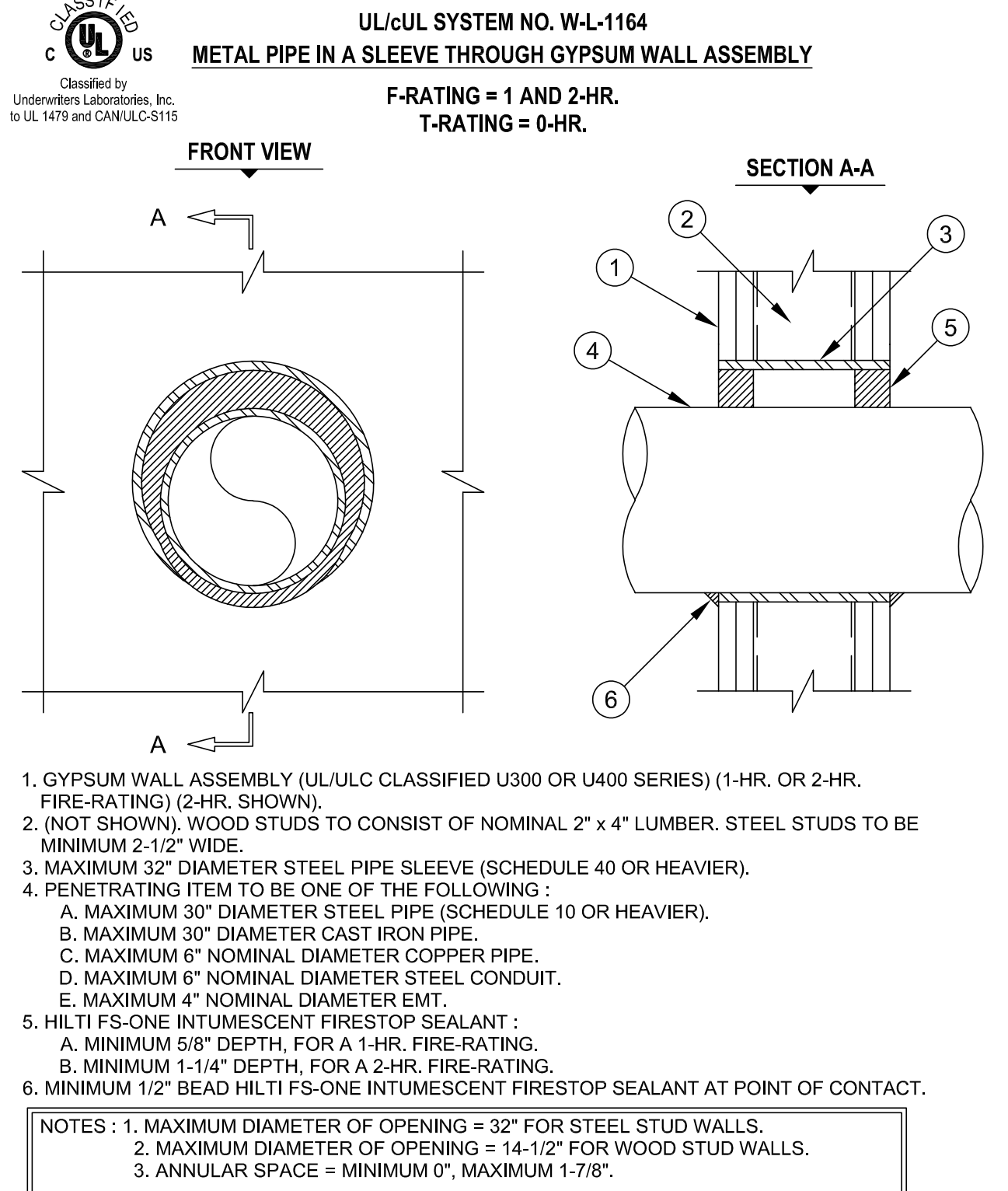
- GENERAL NOTES:**
1. THE CONTRACTOR SUPPLYING THE EQUIPMENT THAT IS TO BE CONTROLLED BY THE STARTER SHALL PROVIDE ALL STARTERS, CONTROL WIRING, AND DISCONNECT SWITCHES FOR THEIR EQUIPMENT. REFER TO 'EQUIPMENT CONNECTIONS RESPONSIBILITIES DETAIL' FOR DIVISION OF RESPONSIBILITIES BETWEEN CONTRACTORS.
  - 1.1. EXCEPTION 1: CONTROL WIRING FROM FIRE ALARM SYSTEMS SHALL BE PROVIDED BY THE DIVISION 16/26 CONTRACTOR. THE EQUIPMENT SUPPLIER SHALL COORDINATE WITH THE DIVISION 16/26 CONTRACTOR THE CONTROL FUNCTIONS AND APPROPRIATE TERMINAL LOCATIONS FOR THE FIRE ALARM SYSTEM WIRING. THE DIVISION 16/26 CONTRACTOR SHALL TERMINATE THE WIRING ON THE DESIGNATED TERMINALS.
  2. SINGLE PHASE MOTORS AND MOTORS UTILIZING SOFT-START TECHNOLOGY SHALL BE CONTROLLED IN A SIMILAR MANNER.
  3. A LISTED RELAY OR OTHER LISTED APPLIANCE CONNECTED TO THE FIRE ALARM SYSTEM USED TO INITIATE CONTROL OF PROTECTED PREMISES FIRE SAFETY FUNCTIONS SHALL BE LOCATED WITHIN 3 FT. OF THE CONTROLLED CIRCUIT OR APPLIANCE. (PER NFPA) FIRE ALARM CONTACT TO BE CONNECTED TO AHU PERMISSIVE (SAFETY) CIRCUIT.
  4. ALL DISCONNECT SWITCHES INSTALLED BETWEEN THE VFD AND THE MOTOR SHALL BE EQUIPPED WITH A HANDLE INTERLOCK CONTACT AND CONNECTED TO THE VFD SAFETY CIRCUIT TO DE-ENERGIZE THE VFD WHENEVER THE DISCONNECT SWITCH IS IN THE OFF POSITION.

DETAIL - VFD MOTOR CONTROL DIAGRAM



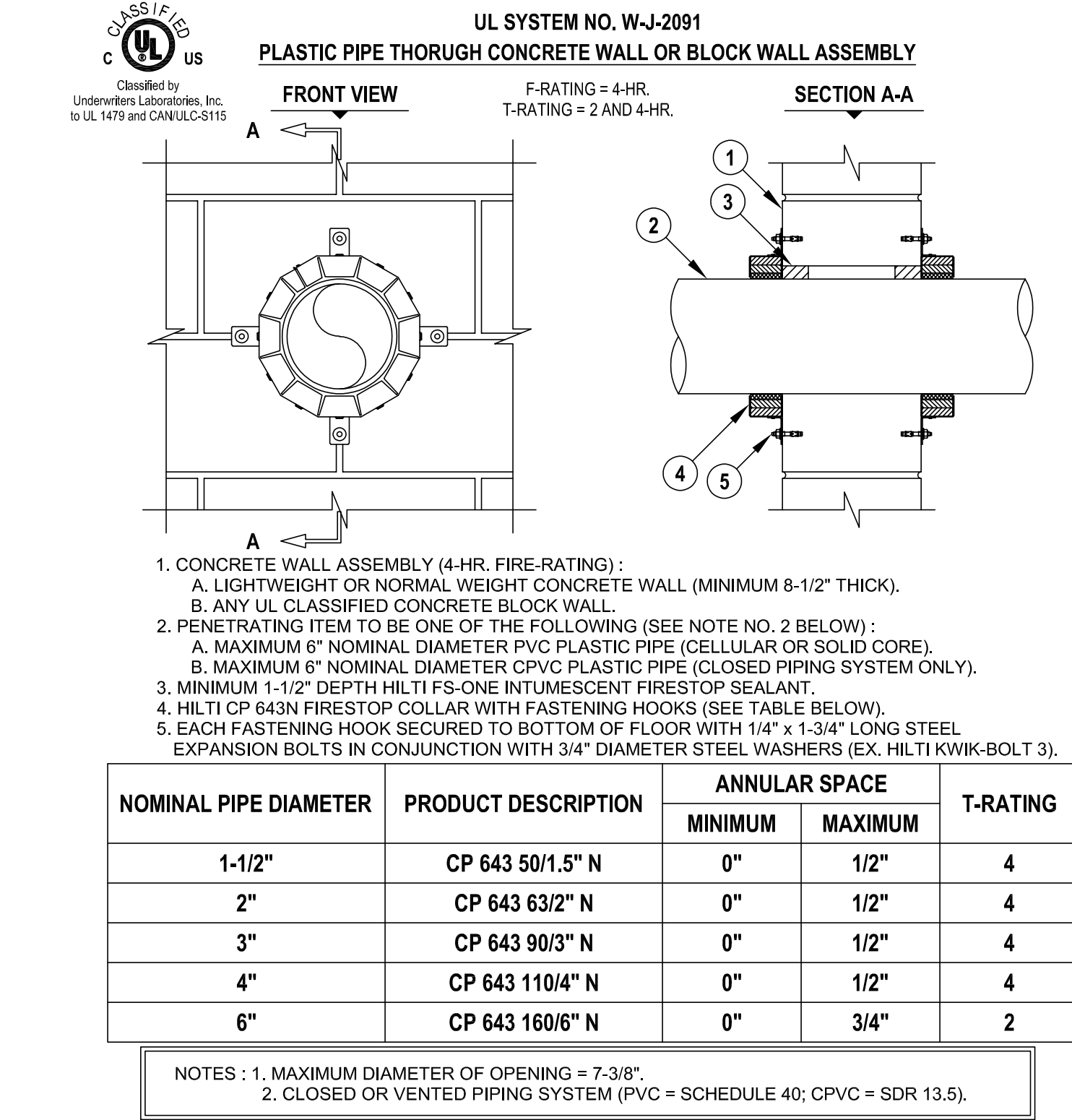
**HILTI**  
Hilti Firestop Systems

DETAIL - UL FIRE RATED PENETRATION



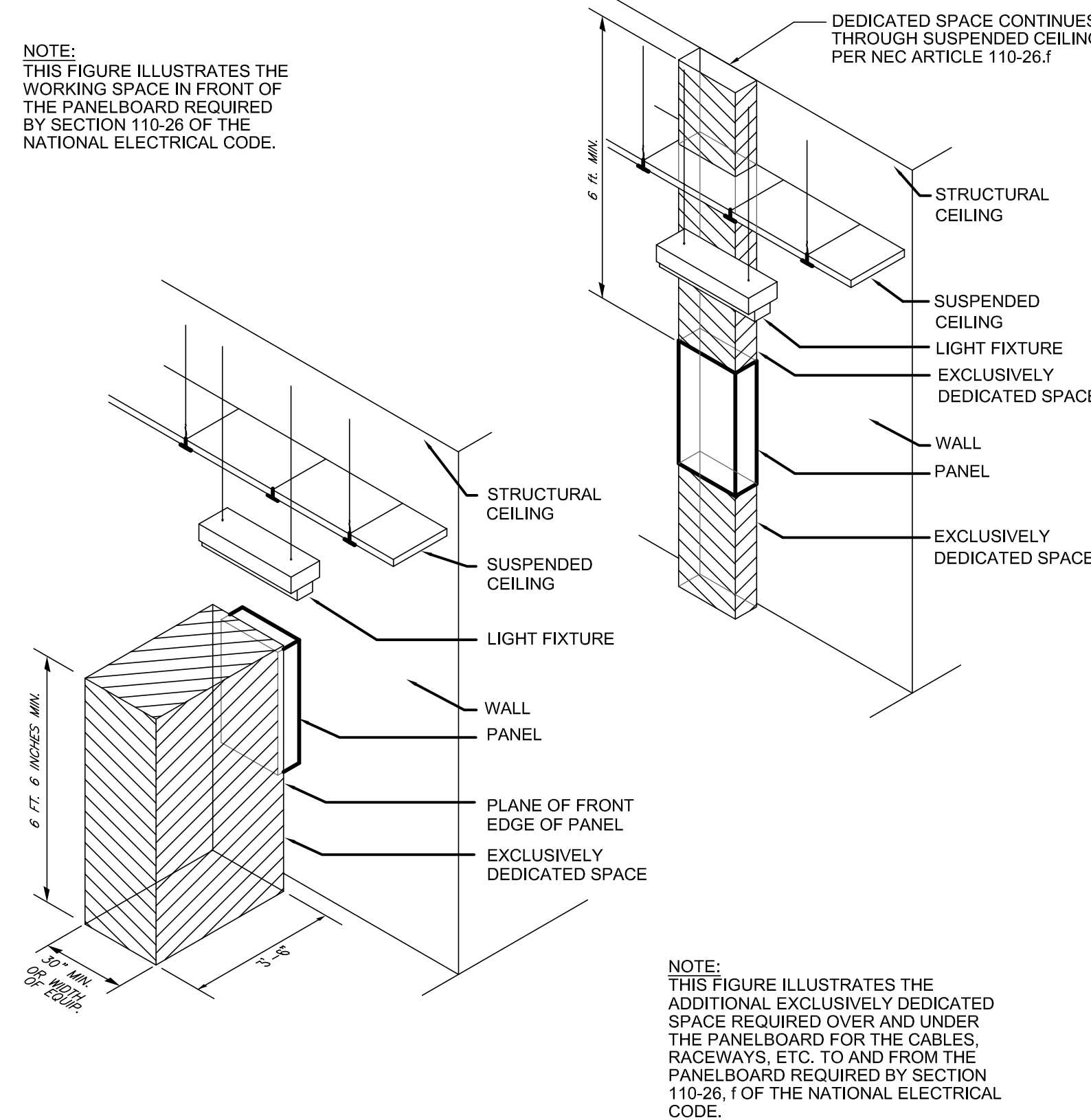
**HILTI**  
Hilti Firestop Systems

DETAIL - UL FIRE RATED PENETRATION



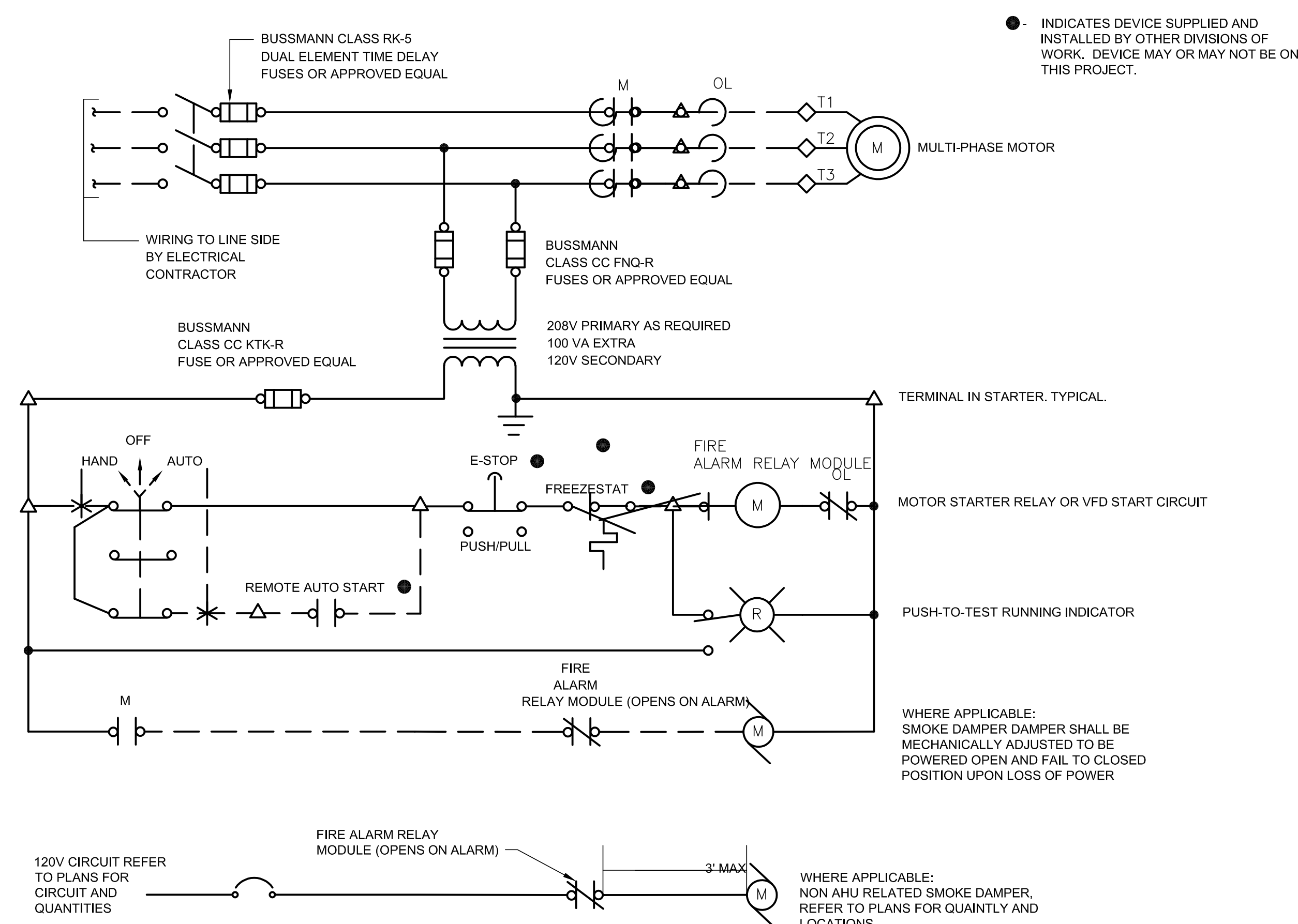
**HILTI**  
Hilti Firestop Systems

DETAIL - UL FIRE RATED PENETRATION



DETAIL - CLEARANCE FOR ELECTRICAL PANELS

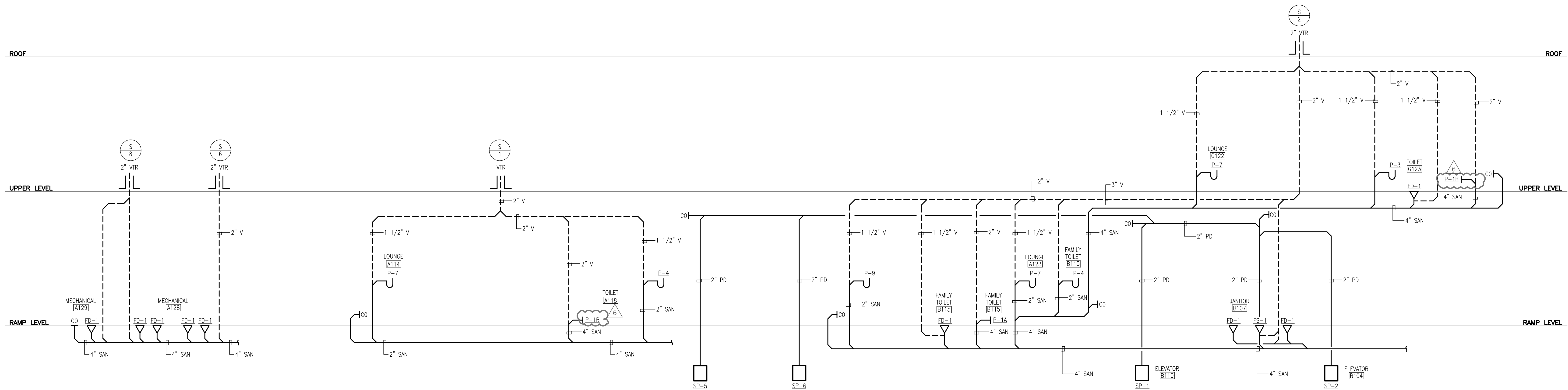




GENERAL NOTES:

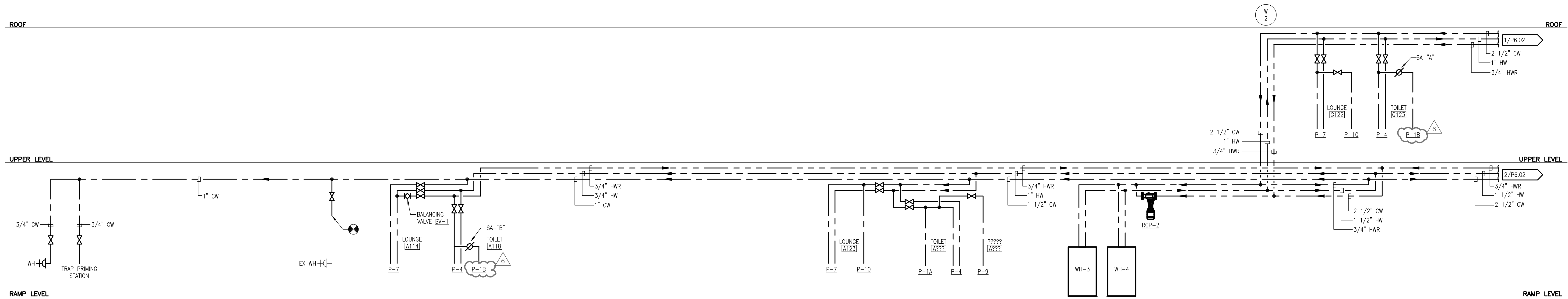
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- 1.1. EXCEPTION 1: CONTROL WIRING FROM FIRE ALARM SYSTEMS SHALL BE PROVIDED BY THE DIVISION 16/26 CONTRACTOR. THE EQUIPMENT SUPPLIER SHALL COORDINATE WITH THE DIVISION 16/26 CONTRACTOR THE CONTROL FUNCTIONS AND APPROPRIATE TERMINAL LOCATIONS FOR THE FIRE ALARM SYSTEM WIRING. THE DIVISION 16/26 CONTRACTOR SHALL TERMINATE THE WIRING ON THE DESIGNATED TERMINALS.
2. SINGLE PHASE MOTORS AND MOTORS UTILIZING SOFT-START TECHNOLOGY SHALL BE CONTROLLED IN A SIMILAR MANNER.
3. A LISTED RELAY OR OTHER LISTED APPLIANCE CONNECTED TO THE FIRE ALARM SYSTEM USED TO INITIATE CONTROL OF PROTECTED PREMISES FIRE SAFETY FUNCTIONS SHALL BE LOCATED WITHIN 5 FT OF THE CONTROLLED CIRCUIT OR APPLIANCE. (PER NFPA)





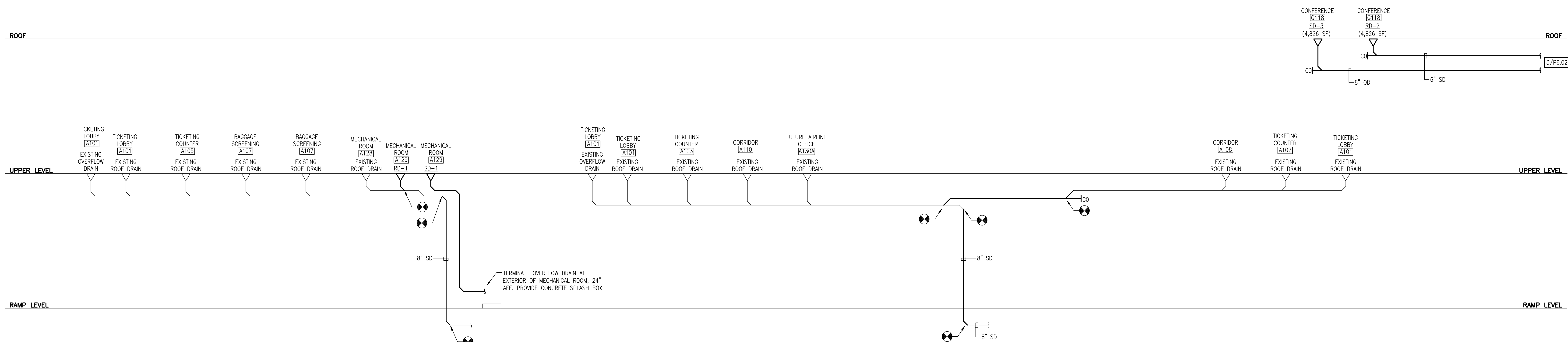
AREA A - SANITARY AND VENT RISER DIAGRAM

SCALE: NONE 1




AREA A - DOMESTIC WATER RISER DIAGRAM

SCALE: NONE 2



AREA A - STORM WATER RISER DIAGRAM

SCALE: NONE 3




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Architecture

100 West Street, Suite 1  
Fayetteville, NC 28101  
Phone: (910) 221-1100  
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Fayetteville Regional Airport - Airline Terminal Improvements Part 2

PLUMBING RISER DIAGRAMS - AREA A

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: BMC

REVIEWED BY: ALM

DATE: 07-18-19

PROJECT NO.: 1808

REVISIONS

ADDENDUM 5 12/19/19

CSP# 09/01/20

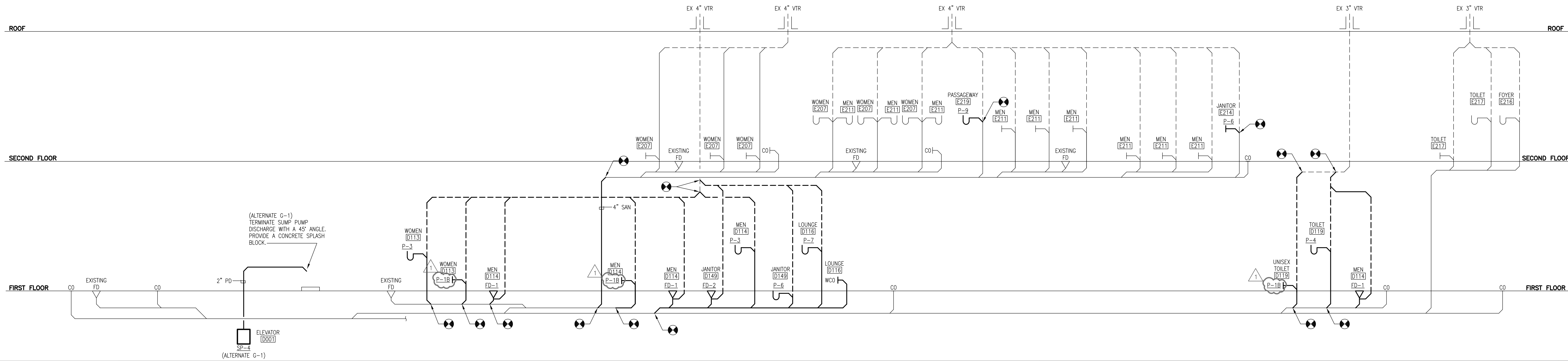
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P6.01



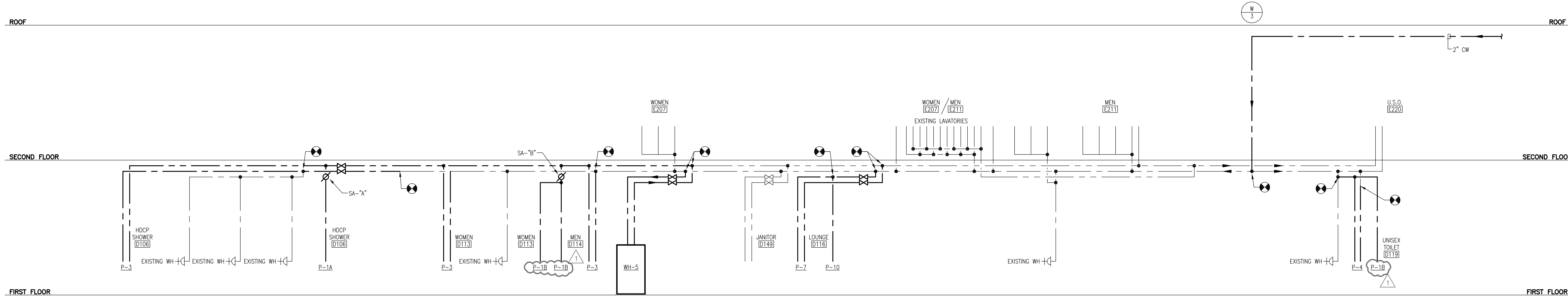






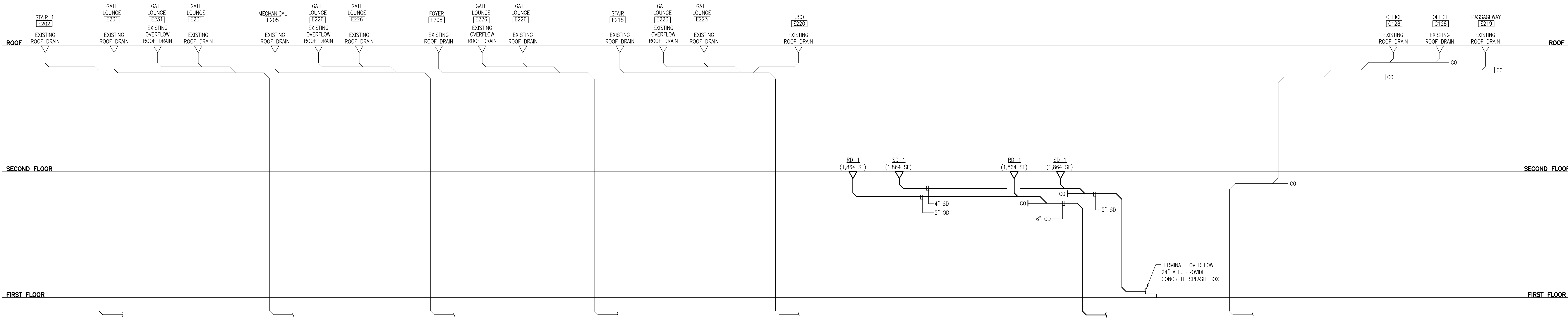
AREA C - SANITARY AND VENT RISER DIAGRAM

SCALE: 1  
NONE



AREA C - DOMESTIC WATER RISER DIAGRAM

SCALE: 2  
NONE



SCALE: -  
NONE

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505 W. Street, Suite 1  
Fayetteville, NC 28301  
(919) 237-0166  
Fax: (919) 237-0166  
gjohnson@architect.com  
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Fayetteville Regional Airport - Airline Terminal Improvements Part 2

400 Airport Road  
Fayetteville, North Carolina 28306

PLUMBING RISER DIAGRAMS - AREA C

DRAWN BY: BMC  
REVIEWED BY: ALM  
DATE: 07-18-19  
PROJECT NO.: 1808

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	09/01/20

SHEET NUMBER  
**P6.03**



PLUMBING FIXTURE SCHEDULE										
DESIGNATION	FIXTURE	FLOW GPM	ROUGH-IN CONNECTION				FIXTURE UNITS			REMARKS
			CW	HW	SAN	VENT	CW	HW	SAN	
P-1	WATER CLOSET	1.28 (GPF)	1"	—	4"	2"	10	—	4	WALL MOUNTED, MANUAL FLUSH VALVE
P-1A	WATER CLOSET	1.28 (GPF)	1"	—	4"	2"	10	—	4	WALL MOUNTED, MANUAL FLUSH VALVE, ADA
P-1B	WATER CLOSET	1.28 (GPF)	1"	—	4"	2"	10	—	4	FLOOR MOUNTED, MANUAL FLUSH VALVE, ADA
P-2	URNINAL	0.125	1/2"	—	2"	1 1/2"	3.0	—	4	WALL MOUNTED
P-2A	URNINAL	0.125	1/2"	—	2"	1 1/2"	3.0	—	4	WALL MOUNTED, ADA
P-3	LAVATORY	0.5	3/4"	3/4"	2"	1 1/2"	1.5	1.5	1	LAVATORY PROVIDED WITH CASEWORK, BATTERY, AUTOMATIC FAUCET.
P-4	LAVATORY	0.5	3/4"	3/4"	2"	1 1/2"	1.5	1.5	1	WALL MOUNTED, ADA
P-5	NOT USED									
P-6	JANITOR SINK	3.0	3/4"	3/4"	2"	1 1/2"	2.25	2.25	3	TERRAZO, FLOOR MOUNTED
P-7	BREAK ROOM SINK	1.5	1/2"	1/2"	2"	1 1/2"	1.5	1.5	1	STAINLESS STEEL, TWO COMPARTMENT SINK
P-8	MOP SINK	3.0	3/4"	3/4"	2"	1 1/2"	2.25	2.25	3	TERRAZO, FLOOR MOUNTED
P-9	ELECTRIC WATER COOLER	8.0 GPM	1/2"	1/2"	2"	1 1/2"	0.25	0.25	0.5	DUAL HEIGHT ADA
P-9A	ELECTRIC WATER COOLER	8.0 GPM	1/2"	1/2"	2"	1 1/2"	0.25	0.25	0.5	SINGLE WATER COOLER WITH BOTTLE FILLER
P-10	VALVE BOX FOR REFRIGERATOR	—	1/2"	—	—	—	—	—	—	WALL MOUNTED VALVE BOX
P-11	VALVE BOX FOR DISHWASHER	—	1/2"	3/4"	—	—	—	—	—	WALL MOUNTED VALVE BOX

1

1

### SUMP PUMP DUTY

DESIGNATION :	SP-1	SP-2	SP-4	SP-5	SP-6
SERVICE :	ELEVATOR B110	ELEVATOR B104	ELEVATOR D001	ESCALATOR	ESCALATOR
GPM :	40	40	40	40	40
DISCHARGE HEAD :	8	8	8	8	8
BASIN SIZE :	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS
MOTOR HP :	0.5	0.5	0.5	0.5	0.5
RPM :	3600	3600	3600	3600	3600
ELECTRICAL :	120V/1ø/60Hz	120V/1ø/60Hz	120V/1ø/60Hz	120V/1ø/60Hz	120V/1ø/60Hz
REMARKS :	NONE				

BASIS OF DESIGN : STANCOR OIL-MINDOR SIMPLEX PUMP – MODEL SE50

- NOTE:
- SEE SPECIFICATION 22.14.29 FOR EQUIVALENT MANUFACTURERS.
  - SP-4 IS ASSOCIATED WITH ALTERNATE G-1

### ELECTRIC WATER HEATER DUTY

DESIGNATION :	WH-3	WH-4	WH-5
SERVICE :	MAIN TERMINAL B107-JANITOR	MAIN TERMINAL B107-JANITOR	CONCOURSE B D149-JANITOR
STORAGE CAPACITY (GAL) :	120	120	120
ENTERING WATER TEMP (°F) :	40	40	40
LEAVING WATER TEMP (°F) :	140	140	140
RECOVERY RATE (GPH) :	—	—	—
ELEMENT WATTAGE :	90 kW	90 kW	90 kW
ELECTRICAL :	480V/3ø/60Hz	480V/3ø/60Hz	480V/3ø/60Hz
BASIS OF DESIGN :	AO SMITH DSE-120	AO SMITH DSE-120	AO SMITH DSE-120
REMARKS :	SEE SPECIFICATION 22.33.00 FOR EQUIVALENT MANUFACTURERS.		
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### BALANCING VALVES SCHEDULE

DESIGNATION	SIZE	TEMPERATURE	BASIS OF DESIGN	REMARKS
BV-1	1/2"	110°F	CIRCUIT SOLVER CS-1/2-120	1
BV-2	3/4"	110°F	CIRCUIT SOLVER CS-3/4-120	1

- NOTE:
- VALVE MUST BALANCE FLOW OF HOT WATER RECIRCULATION BY TEMPERATURE, NOT GPM.

### DRAIN SCHEDULE

DESIGNATION :	DRAIN SIZE / TYPE
FD-1	3" FLOOR DRAIN WITH TRAP PRIMER CONNECTION
FD-2	4" FLOOR DRAIN WITH TRAP PRIMER CONNECTION
FS-1	4" FLOOR SINK
RD-1	3" ROOF DRAIN
RD-2	5" ROOF DRAIN
OD-1	3" OVERFLOW DRAIN
OD-2	4" OVERFLOW DRAIN
OD-3	5" OVERFLOW DRAIN
OD-4	6" OVERFLOW DRAIN

### SHOCK ARRESTOR SCHEDULE

DESIGNATION	FIXTURE UNITS SERVED
SA-"A"	1-11
SA-"B"	12-32
SA-"C"	33-68
SA-"D"	69-113

### RECIRCULATING PUMP DUTY

DESIGNATION :	RCP-2
CAPACITY :	32 GPM
HEAD :	45 FT
MOTOR HP :	1
MOTOR RPM :	3450
ELECTRICAL :	208/3ø/60Hz
SERVICE :	MAIN TERMINAL DOMESTIC
REMARKS :	1, 2

- NOTES:
- PROVIDE INLINE PUMP WITH STAINLESS STEEL CASING AND STAINLESS STEEL IMPELLER.
  - SEE SPECIFICATION 22.11.23 FOR EQUIVALENT MANUFACTURERS.

### HEAT TRACE SCHEDULE

DESIGNATION	SERVICE	CABLE OUTPUT (W/FT)	STARTUP TEMP. (°F)	MAXIMUM CABLE LENGTH (FT)	PIPE SIZE (IN)	THERMOSTAT TYPE	CONTROLLER ENCLOSURE TYPE	ELECTRICAL	REMARKS
HT-3	DOMESTIC COLD WATER – CONCOURSE A	8	40	15	3/4	LINE SENSING	NEMA3R	120/1/60 0.18	1, 2, 3, 4

- NOTES:
- DISCONNECT & GFE PROTECTION PROVIDED BY ELECTRICAL.
  - PROVIDE END KIT, SPLICE KIT, FIXING TAPE, ETC AS REQUIRED FOR A COMPLETE INSTALLATION.
  - COORDINATE EXACT LOCATION OF POWER J-BOX WITH ELECTRICAL CONTRACTOR.
  - PROVIDE ELECTRONIC CONTROLLER THAT CONTROLS AND MONITORS HEAT TRACE CIRCUITS FOR BOTH FREEZE PROTECTION AND TEMPERATURE MAINTENANCE. THE CONTROLLER SHALL INCLUDE A COMMUNICATIONS MODULE TO INTERFACE WITH THE APPRESSABLE FIRE ALARM SYSTEM AND SHALL INITIATE AN ALARM FOR HIGH TEMPERATURE, LOW TEMPERATURE, AND GROUND FAULT LEVEL.

GORDON  
JOHNSON

Architecture

3301 West 37th Street, Suite 100  
Charlotte, NC 28217  
(704) 599-1188  
Fax: (704) 599-1189  
www.gordonjohnsonarchitecture.com

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Gordon L. Johnson, AIA

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RNF ENGINEERING, INC.  
8720 Reed Oak Blvd., Suite 370  
Charlotte, NC 28217  
P: 704.909.8812  
NC License No. C-1126  
RNF Project No. 2153223.FD

Fayetteville Regional Airport – Airline Terminal Improvements Part 2

PLUMBING SCHEDULES

400 Airport Road  
Fayetteville, North Carolina 28306

DRAWN BY: BMC  
REVIEWED BY: ALM  
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1. 09/01/20  
2. 01/26/22

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