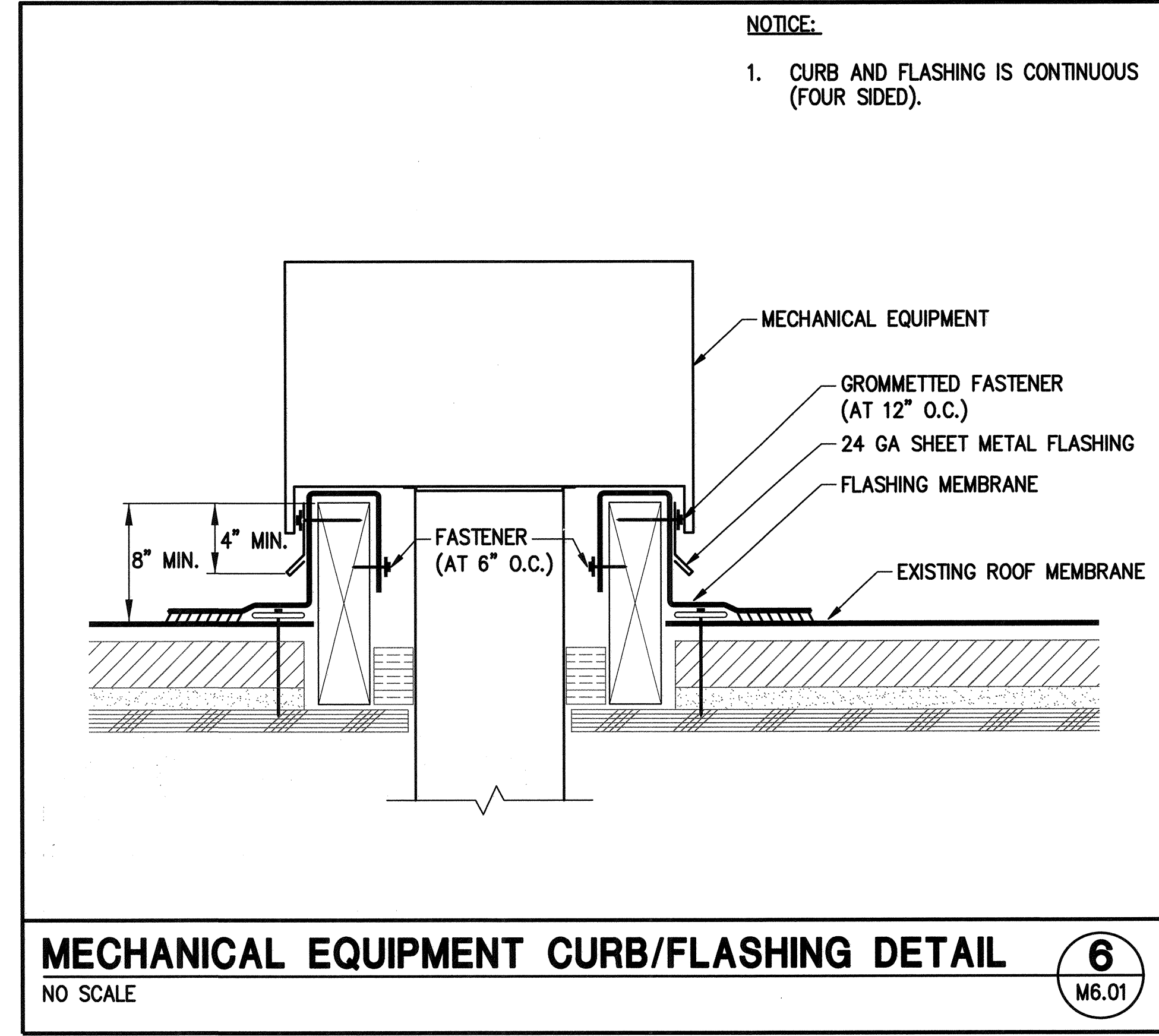
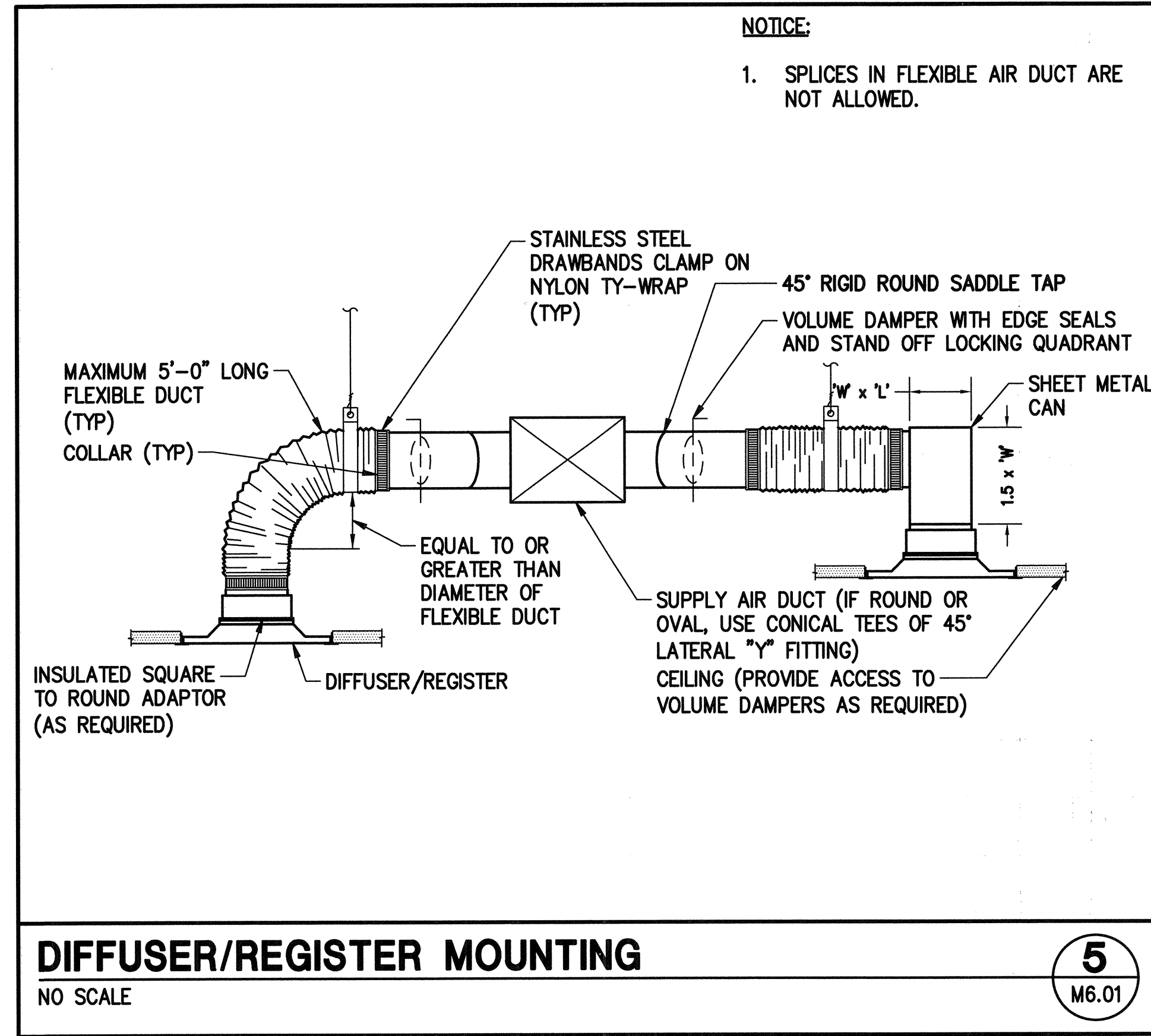
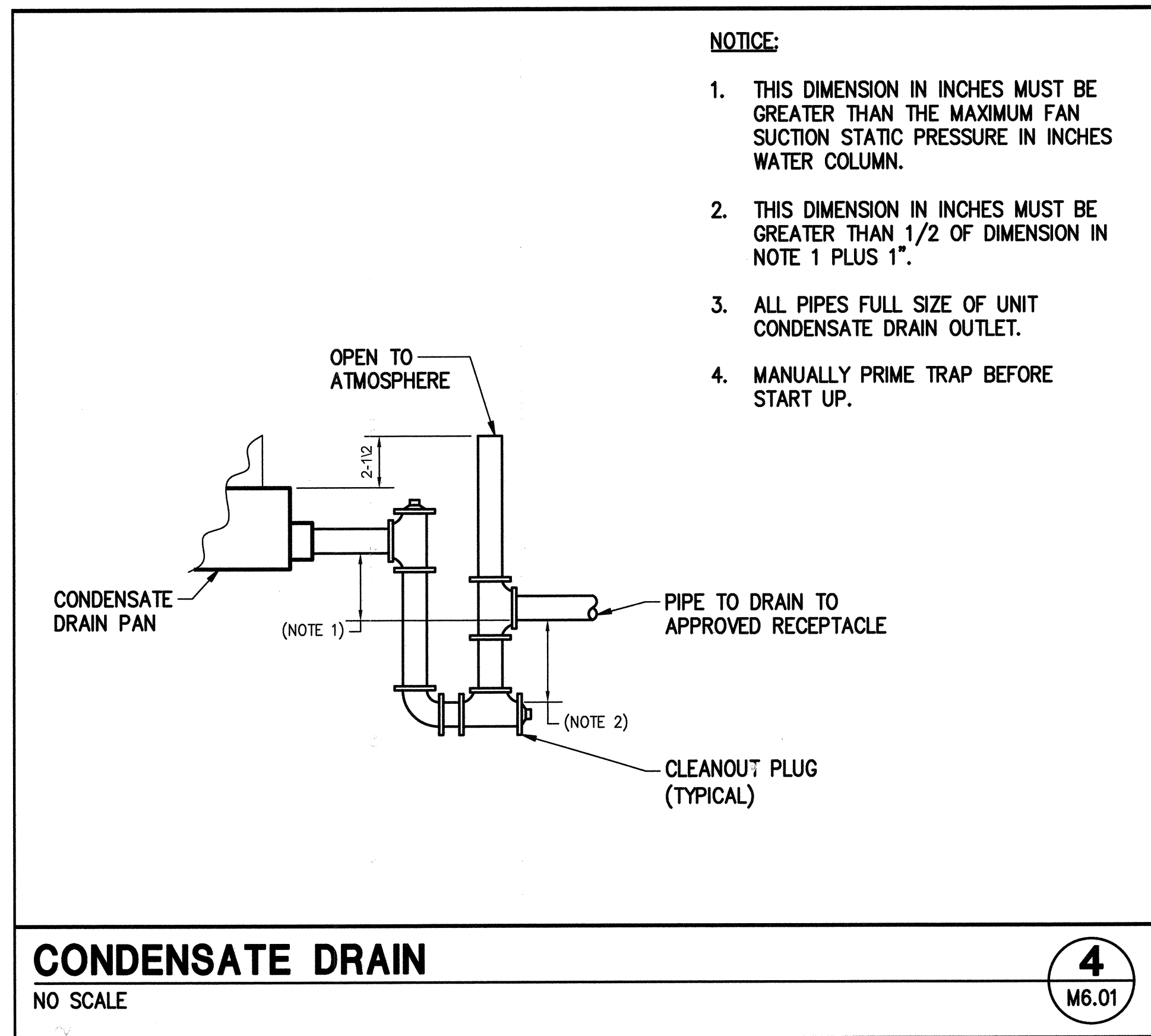
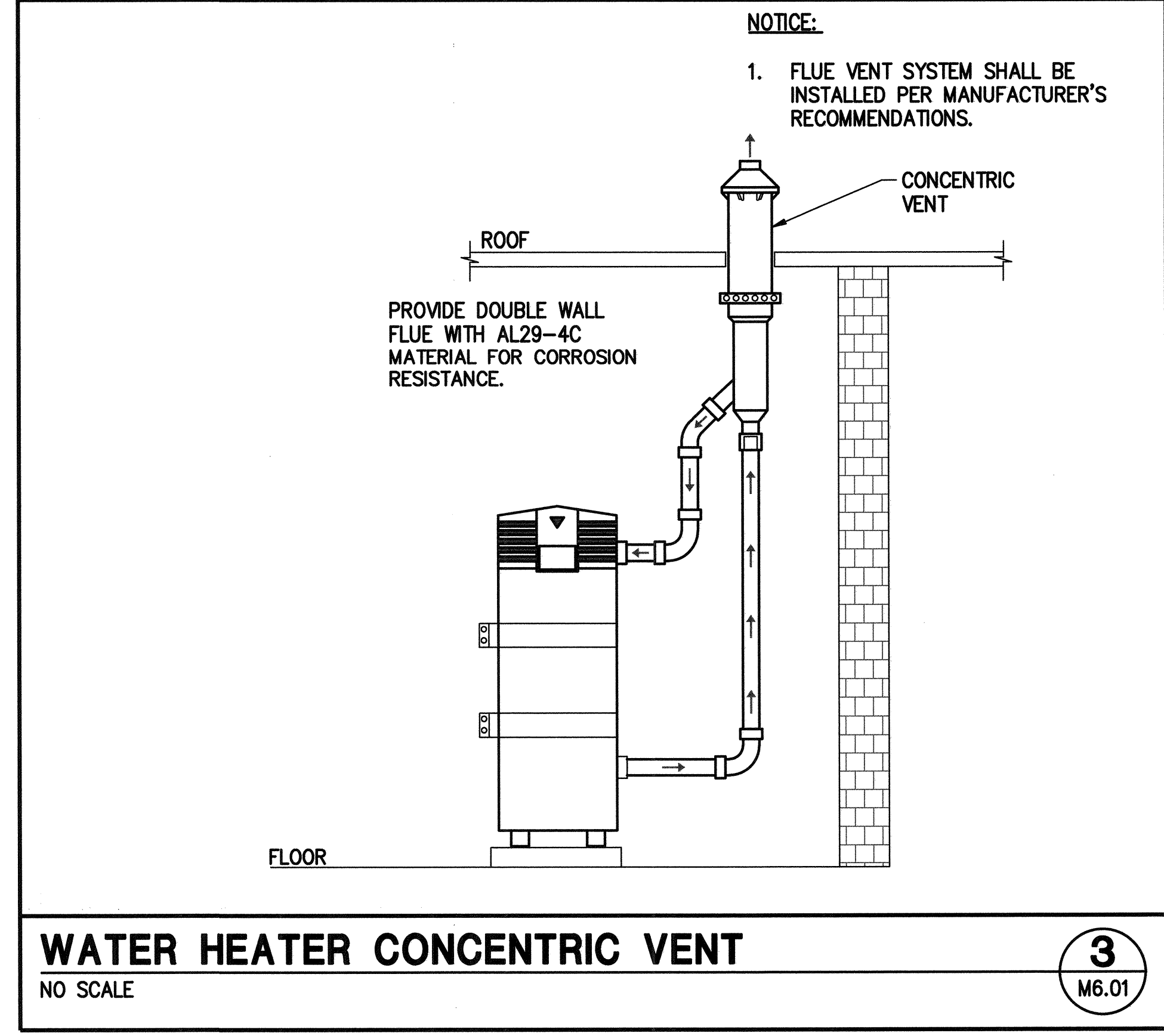
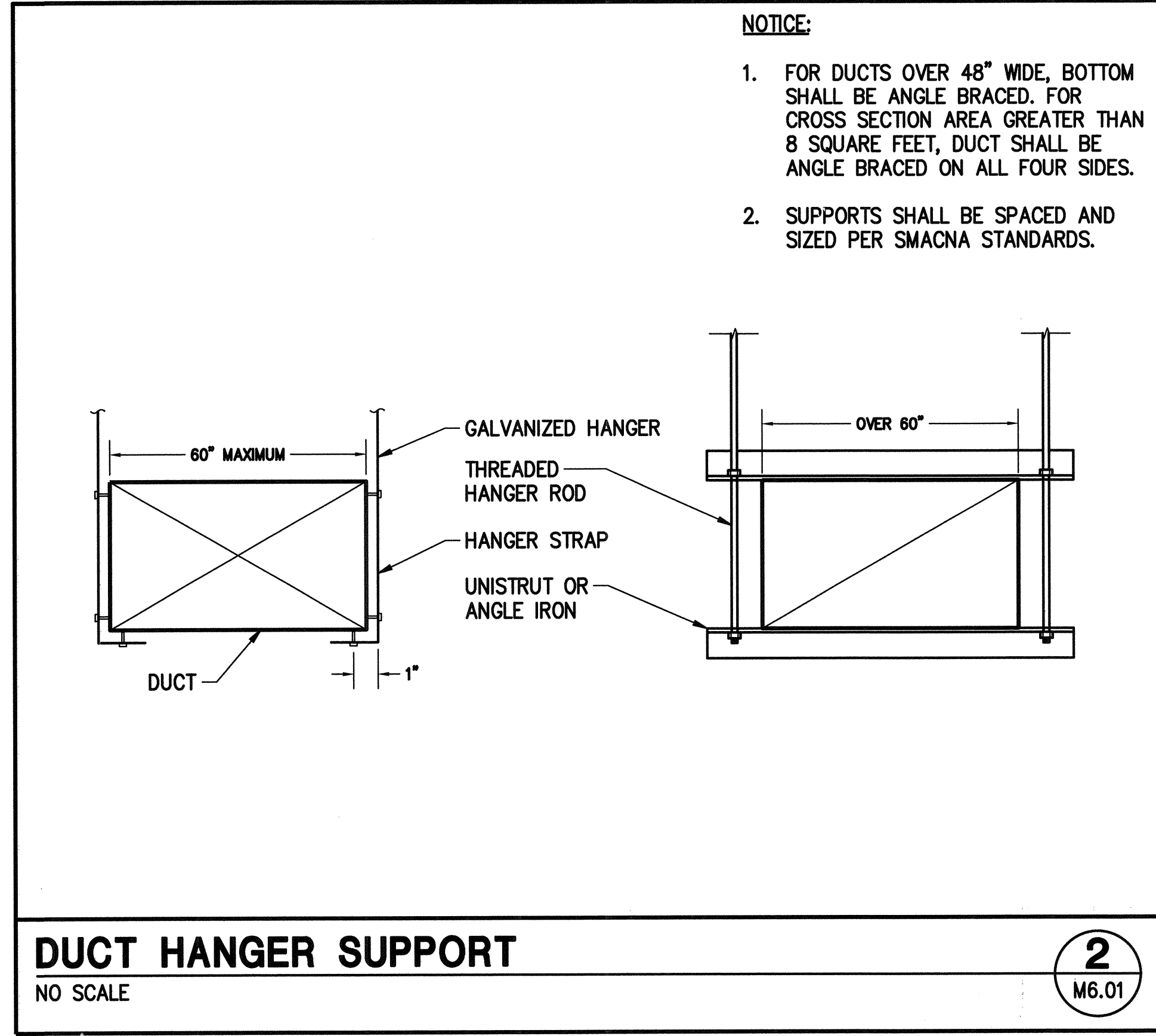
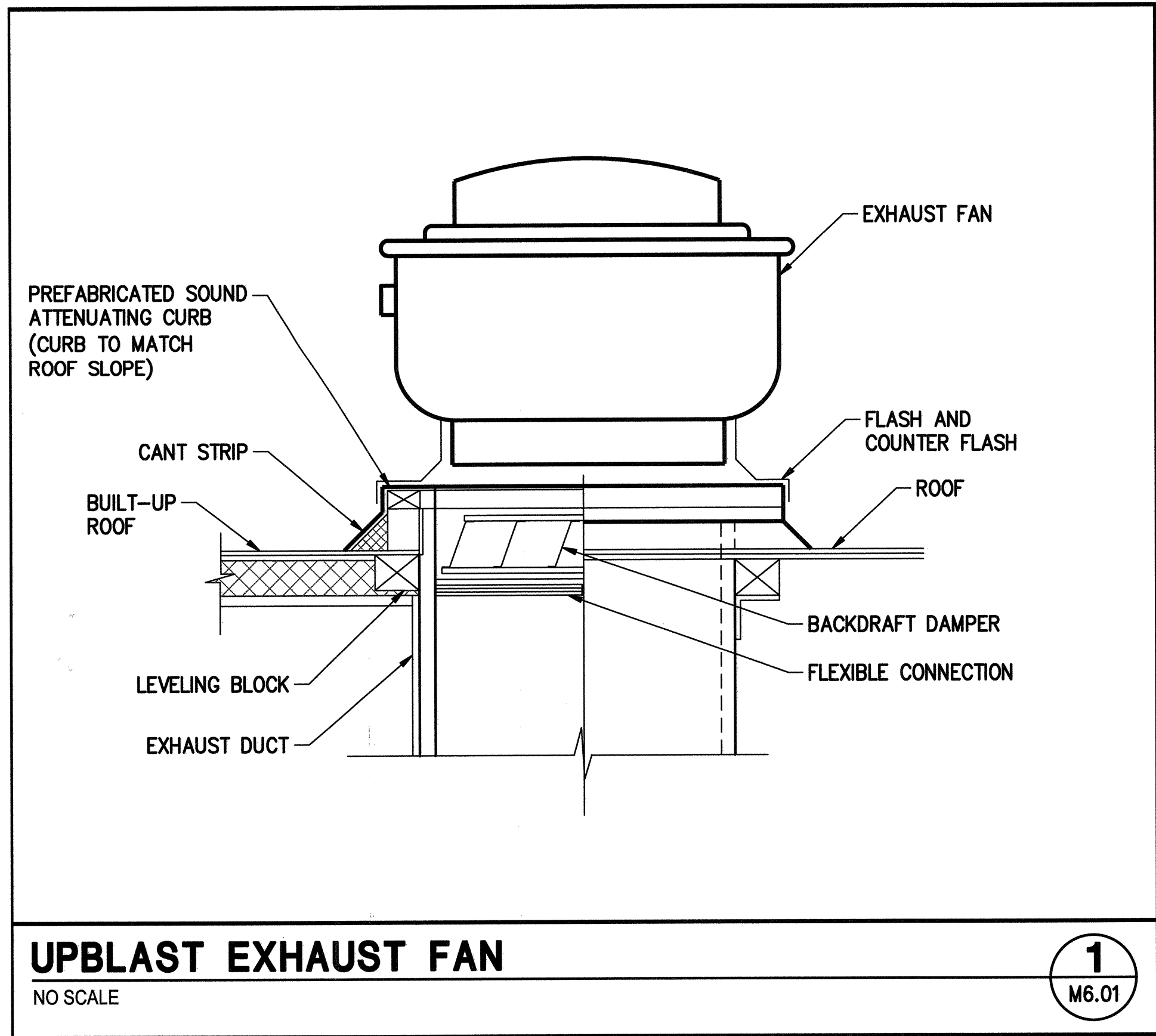
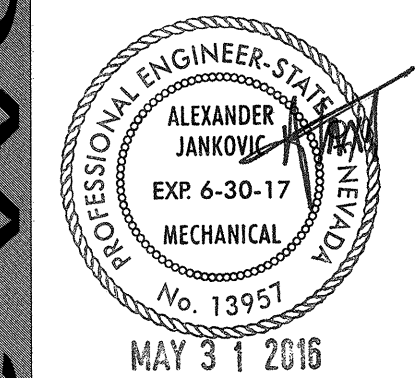




REVISIONS

NO.	DESCRIPTION

ARCHITECT



Charleson Heights Community Center
- Renovation -

DESIGN DETAILS



jba Las Vegas
5105 W. Pecos Ln.
Las Vegas, NV 89116
P: 702.365.9200

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
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DRAWN: JU
FILE:
DATE: 05/02/2016
SCALE:
BID NO: 15.59806.JH
CLV DWG NO: 620-10B
HANGEN NO: 59806
SHT NO:

M6.01

REVIEWED FOR CODE COMPLIANCE
JUN 28 2016 DK
BUREAU VERITAS NORTH AMERICA, INC.

(THIS IS A MASTER LIST. NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)

J:\15.0821\Drawings\UBA\01\PI\150821_01_P0-00.dwg, 9/2/2016 9:54:20 AM, Patrick.Dib, Bluebeam PDF.pc3, ARCH_D_(24.00_x_36.00_inches), 1:1

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)


 PLAN/RISER TYPE
 SHEET/RISER NUMBER

ISSUE

[illegible]

THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERRABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING CONDITIONS.

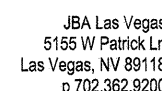
CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE (INCLUDING BUT NOT LIMITED TO SIZES, INVERTS AND POINTS OF CONNECTION) AND THE CONTRACT DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THE WORK POTENTIAL. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN HIS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.



Charleston Heights Community Center

- Renovation -

COVER SHEET



OWNER: CITY OF LAS VEGA
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIV
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FAX: (702) 384-484
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DRAWN JU

DATE 05/02/2016

SCALE

BID NO	15.59806.JH
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CLV DWG NO 620-10B

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CLT NO. _____

PO.00

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CITY OF LAS VEGAS

REVIEWED FOR CODE COMPLIANCE

JUN 28 2016 DK

BUREAU VERITAS NORTH AMERICA, INC.

#15.0821

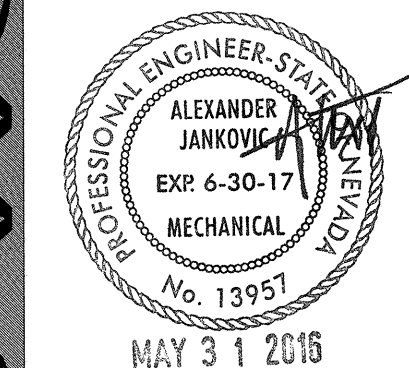
1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING PIPING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY. EXISTING PIPING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.
3. ARCHITECTURAL DRAWINGS SHALL BE REVIEWED FOR PROJECT SCOPE AND AREA OF WORK. WORK SHALL INCLUDE DEMOLITION AND REMOVAL OF EXISTING PLUMBING FIXTURES AS REQUIRED. PLUMBING IN EXISTING WALLS AND UNDER GROUND SHALL BE REMOVED AND CAPPED AS REQUIRED. RECONNECT EXISTING PIPING TO FIXTURES AND EQUIPMENT NOT IN DEMOLITION AREA AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM.
4. THE OWNER RESERVES FIRST CHOICE TO KEEP EXISTING EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER AND DELIVER DESIGNATED EQUIPMENT AND MATERIALS REMOVED UNDER THIS CONTRACT TO OWNERS DESIGNATED STORAGE AREA. REMAINING EQUIPMENT AND MATERIAL REMOVED SHALL BECOME PROPERTY OF THE CONTRACTOR.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS, AND PLUMBING ROUGH-IN LOCATIONS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL HANDICAPPED FIXTURES. OBTAIN EXACT FLOOR DRAIN AND FLOOR SINK LOCATIONS FROM FOOD SERVICE DRAWINGS. ROUGH-IN LOCATIONS FOR KITCHENS, BARS, ETC TO BE TAKEN FROM APPROVED FOOD SERVICE SHOP DRAWINGS.
6. ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL DESIGNATION INFORMATION TO BE PROVIDED FOR EACH ITEM OF PLUMBING EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
7. THE PLUMBING DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
8. SEISMIC RESTRAINTS SHALL BE PROVIDED PER THE LATEST ADOPTED STANDARD BUILDING CODE AND THE SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED RESTRAINTS, STRUCTURAL ATTACHMENT METHODS, AND RESTRAINT LOCATIONS TO THE ARCHITECT FOR REVIEW. THE SUBMITTED DOCUMENTS SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE.
9. COORDINATE SPRINKLER/STANDPIPE DRAIN REQUIREMENTS AND LOCATIONS WITH FIRE PROTECTION DIVISION OF WORK.

10. REFER TO CIVIL DRAWINGS FOR INVERT AT SITE UTILITY POINTS OF CONNECTION. PROVIDE OFFSET AND INCREASE FOR STORM DRAIN OR SEWER AS REQUIRED FOR CONNECTION TO CIVIL.
11. HOT WATER RETURN PIPING BRANCH LINES TO DROP DOWN IN WALL AND CONNECT TO HOT WATER SUPPLY AT STOPS, OR AT TEMPERING STATIONS. REFER TO DETAIL SHEET FOR DIAGRAMS SHOWING CONNECTIONS.
12. ARRANGE WATER HEATERS AND PIPING TO PROVIDE EASE OF DISASSEMBLY AND MAINTENANCE.
13. HOT AND COLD WATER SHUT-OFF VALVES AND HOT WATER RETURN THROTTLING VALVES SHALL BE LOCATED TO BE EASILY ACCESSED.
14. PROVIDE WALL CLEANOUTS AT SINKS AND URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE ADOPTED STANDARD PLUMBING CODE.
15. VENTS THROUGH ROOF SHALL BE MINIMUM 10'-0" FROM ANY OUTSIDE AIR INTAKES AND BUILDING OPENINGS.
16. EQUIPMENT AND PIPING LOCATIONS SHOWN FROM BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATIONS PRIOR TO START OF WORK. IF SYSTEMS ARE NOT AS SHOWN IN DRAWINGS, REPORT DEVIATIONS TO ARCHITECT/ENGINEER WITHIN 48 HOURS OF DISCOVERY.
17. WHERE PIPING IS TO BE REMOVED TO A POINT, IT SHALL BE CAPPED OFF AND PROTECTED (WHERE APPLICABLE) FOR CONNECTION TO NEW WORK. INSULATION ON EXISTING PIPING SHALL BE REPAIRED OR REPLACED EQUAL TO NEW CONDITION.
18. PIPING CONNECTING TO REMOVED EQUIPMENT SHALL BE REMOVED TO A POINT SO AS NOT TO INTERFERE WITH NEW CONSTRUCTION.

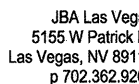
1. SPRINKLER CONTRACTOR SHALL PROVIDE SYSTEM DESIGN, LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE COMPLETE DESIGN AND INSTALLATION OF THE FIRE SPRINKLER SYSTEM SERVING THE SPACE.
2. THE DESIGN AND INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION NFPA 13, CLARK COUNTY FIRE CODE FIRE CODE AND THE GENERAL REQUIREMENTS OF APPLICABLE SECTIONS OF THE 2012 IBC. THE SPECIFIC REQUIREMENTS OF THE LOCAL FIRE PREVENTION BUREAU AND THE OWNER'S INSURANCE UNDERWRITER.
3. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, SPRINKLERS, ESCUTCHEONS, PIPING, VALVES, FITTINGS, DRAINS, HANGERS, BRACING, SIGNS, TEST CONNECTIONS AND OTHER IDENTIFICATION MARKINGS AS REQUIRED.
4. ALL PIPING, EQUIPMENT AND MATERIALS USED IN THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS SHALL BE LISTED AS APPROVED BY UNDERWRITERS, LABORATORIES INC., "LIST OF INSPECTED FIRE PROTECTION EQUIPMENT AND MATERIALS", OR APPROVED BY OTHER APPROPRIATE, NATIONALLY RECOGNIZED TESTING LABORATORIES FOR USE IN SPRINKLER SYSTEMS, AND SHALL BE THE LATEST DESIGN OF THE MANUFACTURER.
5. ALL EQUIPMENT OF THE SAME TYPE SHALL BE PROVIDED BY THE SAME MANUFACTURER. PRODUCTS FROM MULTIPLE MANUFACTURERS FOR THE SAME TYPE SHALL NOT BE ALLOWED.
6. PROVIDE SEISMIC BRACING AS REQUIRED BY 2012 INTERNATIONAL BUILDING AND FIRE CODES AND NFPA 13.
7. PIPING, PIPE HANGERS, SWAY BRACING AND SUPPORTS SHALL CONFORM TO THE LATEST EDITION OF NFPA 13.
8. ALL SPRINKLERS WITHIN THE SPACE SHALL BE PROVIDED WITH EQUIVALENT CHARACTERISTICS, INCLUDING TEMPERATURE RATING, RESPONSE TIME INDEX AND RESPONSE TYPE.
9. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE WITH OTHER WORK, INCLUDING DUCTWORK, DIFFUSERS, GRILLES, ELECTRICAL AND PLUMBING PIPING AS NECESSARY TO INTERFACE COMPONENTS OF FIRE SPRINKLER PIPING PROPERLY WITH OTHER WORK.

10. AFTER SYSTEM IS INSTALLED IT SHALL BE FILLED AND TESTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE REQUIREMENTS OF THE APPLICABLE NFPA STANDARDS.
11. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE PROVIDED TO THE ARCHITECT PRIOR TO SUBMISSION TO THE LOCAL AUTHORITIES. ONCE APPROVED BY THE ARCHITECT OR THEIR ENGINEER, SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13.
12. THE CONTRACTOR GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE CERTIFICATION OF COMPLETION AND ACCEPTANCE OF THE WORK.
13. THE CONTRACTOR SHALL PROVIDE A STOCK OF SPARE SPRINKLERS, INCLUDING CABINET, AS REQUIRED BY NFPA 13.
14. ALL SPRINKLERS SHALL BE CONCEALED. FINISH AND COLOR SHALL BE SELECTED BY THE ARCHITECT.
15. ALL SPRINKLERS SHALL BE CENTERED WITHIN THE CEILING TILE, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
16. ALL PIPING IN FINISHED OR PUBLIC SPACES SHALL BE CONCEALED ABOVE FINISHED CEILINGS. PIPING IN UNFINISHED SPACES MAY BE EXPOSED.
17. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING AND PAINTING AS REQUIRED FOR INSTALLATION OF SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED BY THE BUILDING CODE. ALL FIRESTOPPING SHALL USE LISTED ASSEMBLIES BASED ON THE RATED PENETRATION.
18. CONTRACTOR SHALL TEST ENTIRE SYSTEM IN ACCORDANCE WITH NFPA 13. PROVIDE ARCHITECT WITH COPIES OF ALL TEST CERTIFICATES, OPERATION AND MAINTENANCE MANUALS, RECORD DRAWINGS AND OTHER REQUIRED CERTIFICATES AS REQUIRED BY NFPA 13.
19. CONTRACTOR SHALL BE LICENSED AND FULLY QUALIFIED TO PERFORM THE WORK AS REQUIRED BY THE LOCAL JURISDICTION.

REVIEWED FOR CODE COMPLIANCE
JUN 28 2016 DK
BUREAU VERITAS NORTH AMERICA, INC



Charleston Heights Community Center
- Renovation -



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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PO.01

#15.0821

PLUMBING FIXTURE SPECIFICATIONS

PLUMBING FIXTURES

WATER CLOSET WC-1: ZURN ECOVANTAGE, MODEL NUMBER Z-5615 WALL MOUNTED, ELONGATED BOWL, EVERCLEAN SURFACE. LOW CONSUMPTION, TOP SPUD, 1.6 GPF, EXPOSED HARDWIRED MULTI-AC-POWERED, SENSOR OPERATED FLUSH VALVE AQUASENSE, ZEMS-6000AV-IS, HEAVY DUTY, ELONGATED, OPEN FRONT, WHITE SEAT Z-5950 WITH CHECK HINGES, EVERCLEAN SURFACE, LESS COVER. ZURN CARRIER 1203-N.

WATER CLOSET WC-2: ZURN ECOVANTAGE, MODEL NUMBER Z-5615 WALL MOUNTED, ELONGATED BOWL, EVERCLEAN SURFACE. LOW CONSUMPTION, TOP SPUD, 1.6 GPF, EXPOSED HARDWIRED MULTI-AC-POWERED, SENSOR OPERATED FLUSH VALVE AQUASENSE, ZEMS-6000AV-IS, HEAVY DUTY, ELONGATED, OPEN FRONT, WHITE SEAT Z-5950 WITH CHECK HINGES, EVERCLEAN SURFACE, LESS COVER. ZURN CARRIER 1203-N. (ADA COMPLIANT)

WATER CLOSET (WC-3): ZURN ECOVANTAGE, MODEL NUMBER Z-5665 FLOOR MOUNTED, ELONGATED BOWL, EVERCLEAN SURFACE. LOW CONSUMPTION, TOP SPUD, 1.25 GPF, EXPOSED HARDWIRED MULTI-AC-POWERED, SENSOR OPERATED FLUSH VALVE AQUASENSE, ZEMS-6000AV-HET-IS, HEAVY DUTY, ELONGATED, OPEN FRONT, WHITE SEAT Z-5950 WITH CHECK HINGES, EVERCLEAN SURFACE, LESS COVER. (ADA COMPLIANT)

URINAL U-1: ZURN ECOVANTAGE, MODEL NUMBER Z-5755-U, WALL MOUNTED, ZURN FLUSH VALVE ZEMS-6003AV-ULF-IS 0.125 GPF, WHITE VITREOUS CHINA, TOP SPUD, BLOW-OUT. LOW CONSUMPTION, EXPOSED, HARDWIRED MULTI-AC POWERED, SENSOR OPERATED FLUSH VALVE. (ADA COMPLIANT)

LAVATORY (L-1): ZURN ECOVANTAGE, MODEL NUMBER Z-5220, 19" X 16" LAVATORY UNDERCOUNTER FRONT OVERFLOW, WHITE VITREOUS CHINA, 4" CENTERS, OVAL LAVATORY WITH OVERFLOW AND CLAMPS. ZURN Z-6915-XL ELECTRONIC METERING, HARD WIRED FAUCET, 0.35 GPM, VANDAL RESISTANT LAVATORY FAUCET WITH CHROME PLATED GRID DRAIN. FURNISH WITH P6000-HWG POWER CONVERTER. PROVIDE TRUEBRO LAV GUARD UNDERSINK PIPING PROTECTION. (ADA COMPLIANT).

LAVATORY (L-2): ZURN, MODEL NUMBER Z-5310, 20" X 18" WALL MOUNTED, WHITE VITREOUS CHINA, 4" CENTERS, LAVATORY WITH OVERFLOW AND HANGER. ZURN Z-6915-XL ELECTRONIC METERING, HARD WIRED FAUCET, 0.35 GPM. VANDAL RESISTANT LAVATORY FAUCET WITH CHROME PLATED GRID DRAIN. FURNISH WITH P6000-HWG POWER CONVERTER. PROVIDE TRUEBRO LAV GUARD UNDERSINK PIPING PROTECTION. (ADA COMPLIANT).

ELECTRIC WATER COOLER (EWC-1): ELKAY LZSTL8WSLK, WALL MOUNTED WATER COOLER WITH BOTTLE FILLING STATION, STAINLESS STEEL, BI-LEVEL, PUSH-BUTTON OPERATED, VANDAL-RESISTANT, BARRIER-FREE, 8 GPH, ELECTRIC WATER COOLER WITH IN WALL MOUNTING FRAME. ELECTRICAL SERVICE SHALL BE 115 VOLTS, 60 HZ, 370 WATTS, 5 FLA. PROVIDE WITH CANE DETECTION SHIELD.

DRINKING FOUNTAIN (DF-1): ELKAY MODEL LZWSSM, FILTERED, SURFACE MOUNT, STAINLESS STEEL, EZH20 BOTTLE FILLING STATION, ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION. PROVIDE WATER SENTRY PLUS FILTRATION SYSTEM. QUICK FILL RATE: 1.5 GPM. ELECTRICAL: 115 V/ 1 PH, FLA = 1.0.

SUPPLIES, TRAPS AND MISCELLANEOUS

SUPPLIES: FOR CONCEALED APPLICATIONS, CONNECT WATER CLOSETS, LAVATORIES AND SINKS WITH McGUIRE BV 2165 CC BALL VALVE ANGLE STOP WITH SS-16 16" STAINLESS STEEL CONNECTOR FOR LAVATORIES, SINKS; McGUIRE BV 2165 CC BALL VALVE ANGLE STOP WITH SS-12 12" STAINLESS STEEL CONNECTOR FOR WATER CLOSET. WHERE EXPOSED, PROVIDE CROME PLATED FLEXIBLE TUBE-RISERS (PROVIDE OFFSET TAILPIECE AND INSULATE WASTE AND SUPPLIES AT ALL HANDICAPPED LAVATORIES WITH McGUIRE PW 2150 PRE-WRAP INSULATION KIT). CONCINNITY MODEL NUMBER 19-L3 "IN WALL STOPS" SATIN CHROME WITH BRUSHED BRASS ACCENT AT WALL MOUNTED LAVATORY. WHERE EXPOSED, PIPING TRIM FINISH SHALL MATCH FIXTURE FINISH.

TRAPS: McGUIRE B8902, CHROME PLATED CAST BRASS WITH CLEANOUT PLUG AND TUBING OUTLET WITH TRAP ADAPTER AND ESCUTCHEON. (B-155WC FOR OFFSET TAILPIECE).

CLEANOUT (CO): ZURN MODEL Z1468 (WALL), ZURN MODEL Z1400 (FLOOR).

FLOOR DRAIN (FD): ZURN MODEL Z415B, CAST IRON DRAIN BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD. STRAINER FINISH SHALL BE NICKEL BRONZE UNLESS LOCATION REQUIRES GRATE TO MATCH APPLICABLE FIXTURE FINISHES AS IN TOILET ROOMS OR OUTDOOR SHOWERS. JR SMITH FIGURE 2233-Y, 11-1/2" CAST IRON GRATE (MECHANICAL ROOM, TRASH DOCK AND HEAVY TRAFFIC AREAS).

FLOOR DRAIN (FD-1): ZURN MODEL Z532 HEAVY-DUTY FLOOR DRAIN WITH CAST IRON BODY, FLASHING CLAMP, HEAVY DUTY SLOTTED GRATE AND SEDIMENT BUCKET.

FLOOR SINK (FS): ZURN MODEL FD2377 CAST IRON DRAIN, 10" DEEP WITH ENAMELED CAST IRON HALF GRATE EXCEPT WHERE INDICATED OTHERWISE ON PLUMBING DRAWINGS.

RECESSED HOSE BIBB (HB-1): ZURN MODEL Z-1320, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER, 3/4" THREADED HOSE CONNECTION, REMOVABLE WHEEL HANDLE.

NOTICE

NOTICE:

- FINAL COLOR, FIXTURE, TRIM AND ACCESSORIES SHALL BE APPROVED BY ARCHITECT PRIOR TO FIXTURE RELEASE.
- PLUMBING FIXTURES SHALL COMPLY WITH STATE AND COUNTY WATER CONSERVATION REQUIREMENTS.
- BALL VALVES SERVING WATER FOR HUMAN CONSUMPTION SHALL BE LEAD FREE IN ACCORDANCE WITH NSF-61-G.

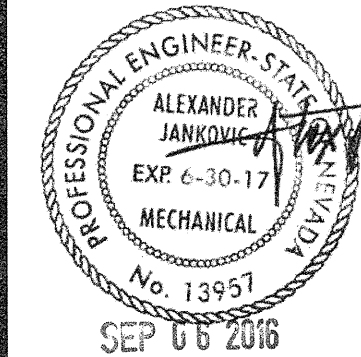
PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE	ROUGH-IN SIZE (IN)					NOTES
		TW/HW	CW	V	TRAP	S/W	
WC-1, WC-2	WATER CLOSET	-	1	2	-	4	WALL MOUNTED, ELECTRONIC FLUSH VALVE
WC-3	WATER CLOSET	-	1	2	-	4	WALL MOUNTED, ELECTRONIC FLUSH VALVE
U-1	URINAL	-	1/2	2	2	2	WALL MOUNTED, ELECTRONIC FLUSH VALVE
L-1	LAVATORY	1/2	1/2	1-1/4 1-1/2	1-1/4 1-1/2	1-1/2	COUNTERTOP, ELECTRONIC FAUCET
L-2	LAVATORY	1/2	1/2	1-1/4 1-1/2	1-1/4 1-1/2	1-1/2	WALL MOUNTED, ELECTRONIC FAUCET
EWC-1	ELECTRIC WATER COOLER	-	1/2	1-1/2	1-1/2	1-1/2	WALL MOUNTED



REVISIONS
3. PLAN CHECK COMMENTS

ARCHITECT



Charleston Heights Community Center
- Renovation -

SCHEDULES



jba Las Vegas
5155 W. Patrick Ln
Las Vegas, NV 89115
P 702.362.5000

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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ELECTRONIC TRAP PRIMER SCHEDULE											
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	TYPE	MOUNTING	MINIMUM MOUNTING HEIGHT (IN)	NUMBER OF DRAINS	INLET SIZE (IN)	MINIMUM HEADER CONNECTIONS	ELECTRICAL		NOTES
									V	FUSE (A)	
ETP-1	RESTROOMS	PPP, INC MPB-500	MANIFOLD	RECESSED	48	3	3/4	4	115/1	2	1, 2, 3, 4, 5
1. PROVIDE WITH ANTI-SIPHON VACUUM BREAKER, 24 HOUR CLOCK, MANUAL OVER RIDE, SOLENOID VALVE, CALIBRATED MANIFOLD WITH 1/2" OUTLET COMPRESSION FITTINGS. 5. VERIFY MOUNTING HEIGHT WITH FIELD CONDITIONS AND MANUFACTURER'S RECOMMENDATIONS. 2. PROVIDE SHUT-OFF VALVE ON INLET. 3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 4. PAINT ACCESS PANEL TO MATCH WALL. COORDINATE WITH ARCHITECT.											

THERMOSTATIC MIXING VALVE SCHEDULE										
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	TYPE	MINIMUM FLOW RATE (GPM)	MAXIMUM FLOW RATE (GPM)	DESIGN FLOW RATE (GPM)	PRESSURE DROP (PSIG)	TEMPERATURE LIMIT STOP SET (°F)	INLET/OUTLET SIZE (IN)	NOTES
TMV-1	—	SYMMONS 5-200-1B	THERMOSTATIC	0.5	4	1.5	5.0	105	3/4 / 3/4	1, 2
TMV-2	—	SYMMONS 5-200-1B	THERMOSTATIC	0.5	4	1.5	5.0	105	3/4 / 3/4	1, 2
										1, 2

1. PROVIDE WITH ROUGH BRONZE FINISH, COLOR-CODED DIAL THERMOMETER, INLET THERMOMETERS, TEST CONNECTION, INLET CHECK STOPS, OUTLET BALL VALVE, LOCKING TEMPERATURE REGULATORS AND WALL SUPPORT.

2. PROVIDE ACCESS PANEL PER UPC.

GAS FIRED WATER HEATER SCHEDULE												
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	STORAGE CAPACITY (GAL)	RECOVERY RATE (GPH)	EFFICIENCY %	WORKING PRESSURE (PSIG)	TEMPERATURE RISE (°F)	NATURAL GAS INPUT (MBH)	FLUE SIZE (IN)	V/PH	MAXIMUM OPERATING WEIGHT (LBS)	NOTES
WH-1	JANITOR RM	A.O. SMITH BTH-199	100	288	94	160	80	199	4"	115/1	1400	1, 2, 3, 4, 5

1. PROVIDE WITH MULTI-FLUE DEIGN, FUSED GLASS LINING, POLYURETHANE FOAM INSULATION, TANK SAVER ANODES, HEAVY STEEL JACKET WITH BAKED ENAMEL FINISH.

6. PROVIDE EXPANSION TANK, WATTS MODEL DET-12.

2. PROVIDE WITH AUTOMATIC RESET HIGH-LIMIT, SPARK IGNITION, SLIDE OUT BURNER TRAP, AUTOMATIC FIRE DAMPER, LOW WATER CUT-OFF, TEMPERATURE GAUGE AND PRESSURE GAUGE.

3. MOUNT ON 4" HOUSE KEEPING PAD.

4. SHALL MEET LATEST EDITION OF ASHRAE 90.1 STANDARDS.

5. PROVIDE WITH ASME PRESSURE AND TEMPERATURE RELIEF VALVE, STAMPED "HLW".

CIRCULATING PUMP SCHEDULE										
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	TYPE	FLOW (GPM)	TDH (FT)	ELECTRICAL			MAXIMUM OPERATING WEIGHT (LBS)	NOTES
						V/PH	HP	RPM		
HCP-1	JANITOR RM	TACO 0014	140" INLINE HOT WATER CIRCULATING PUMP	5	30	115/1	1/8	3250	15	1, 2, 3, 4, 5, 6, 7

1. PROVIDE WITH STAINLESS STEEL OR BRONZE CONSTRUCTION, SUITABLE FOR USE IN DOMESTIC WATER SYSTEMS.
2. FLANGED BRONZE HOUSING.
3. PROVIDE WITH BUILT-IN THERMAL OVERLOAD SWITCH.
4. PROVIDE WITH CONTROL PANEL COMPLETE WITH HIGH LEVEL ALARM LIGHT AND NEMA 4X ENCLOSURE.

5. WIRING SHALL BE IDENTIFIED FOR USE IN WET LOCATIONS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
6. PROVIDE SUPPLEMENTAL SUPPORT STEEL AND VIBRATION ISOLATION.
7. RECIRCULATING PUMP SHALL BE ENABLED PER OCCUPANCY SCHEDULE AND WHEN HWR TEMPERATURE FALLS BELOW SET POINT. PUMP SHALL BE PROGRAMMED FOR A MAXIMUM ON-TIME OF 30 MINUTES AND FOR A MINIMUM OFF-TIME OF 10 MINUTES.

PIPE SIZE (IN)	MAXIMUM FLOW (GPM)		FLUSH TANK (FU)		FLUSH VALVE (FU)		VELOCITY (FPS)	
	CW	HW	CW	HW	CW	HW	CW	HW
1/2	1	1	1	1	–	–	1.0	1.0
3/4	3	3	3	3	–	–	1.5	1.5
1	6	6	7	7	–	–	2.0	2.0
1–1/4	11	10	15	13	–	–	2.5	2.5
1–1/2	18	15	26	21	–	–	2.75	2.75
2	40	30	86	54	28	12	3.0	3.0
2–1/2	65	50	200	127	90	48	3.5	3.5
3	100	80	380	275	245	148	4.0	4.0

STATIC HEAD (SH) = 20 FEET x 0.43 = 8.6 PSI
 SERVICE PRESSURE = (SP)
 PRESSURE AVAILABLE (PA) = 70 (SP) – (8.6 (SH) + 25 REQ. PRESSURE + 15 METER)
 (PA) = 22.4 PSI (PA)
 DEVELOPED LENGTH LONGEST RUN = 350 FEET
50 % FITTINGS LENGTH = 175 FEET
 TOTAL EQUIVALENT LENGTH (TEL) = 525 FEET
 ALLOWABLE FRICTION LOSS/100FT = 22 X 100 PSI (PA) = 4.19 PSI/100FT
 525 FT (TEL)

WATER HAMMER ARRESTOR SCHEDULE		
PIPE SIZE (IN)	PDI SYMBOL (1)	NOTES
1/2	A	2
3/4	A	2
1	B	2
1-1/4	B	2
1-1/2	C	2
2	D	2
2-1/2	F	2

1. PDI = PLUMBING DRAINAGE INSTITUTE STANDARDS.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

MATERIALS SCHEDULE	
SERVICE	MATERIALS
DOMESTIC WATER	TYPE L COPPER ABOVE GRADE, TYPE K COPPER BELOW GRADE.
SOIL, WASTE AND VENT	CAST IRON SOIL PIPE WITH NO-HUB FITTINGS ABOVE GRADE, SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS BELOW GRADE.
NATURAL GAS	SCHEDULE 40 BLACK STEEL.

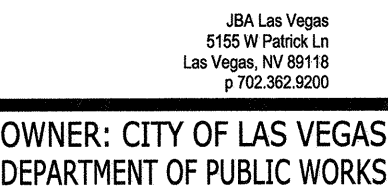
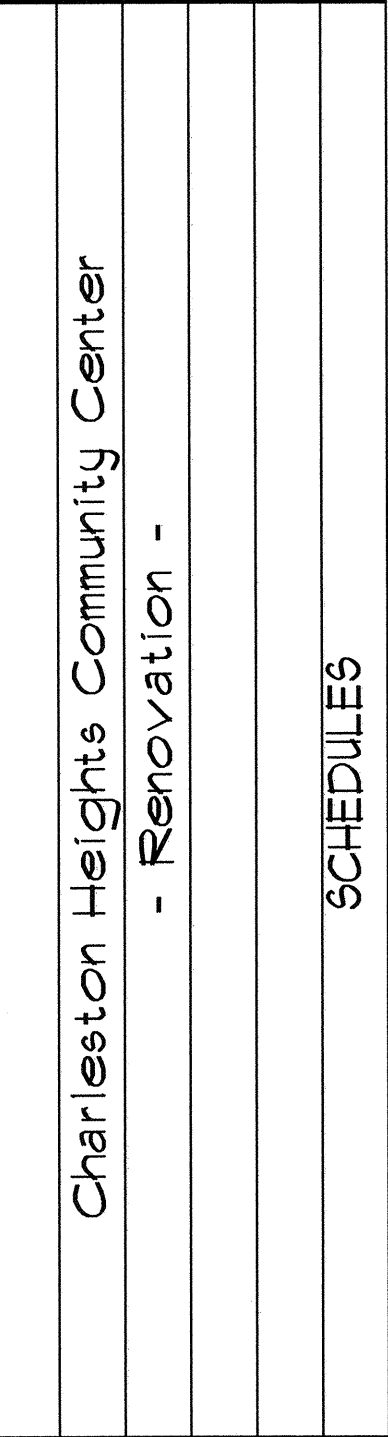
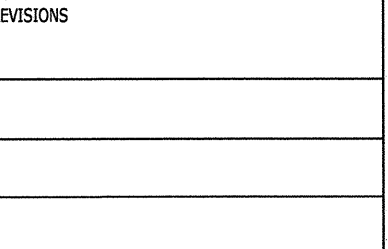


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INSTANTANEOUS WATER HEATER SCHEDULE										
ITEM	LOCATION	MANUFACTURER MODEL NUMBER	FLOW RATE (GPM)	MINIMUM OPERATING PRESSURE (PSIG)	MAXIMUM OPERATING PRESSURE (PSIG)	TEMPERATURE RISE (°F)	ELECTRICAL		MAXIMUM OPERATING WEIGHT (LBS)	NOTES
							V/PH	W		
IWH-1	RR-127	CHRONOMITE SR-20L	0.5	25	150	57	208/1	4,160	1, 2, 3	1, 2, 3
IWH-2	RR-129	CHRONOMITE SR-20L	0.5	25	150	57	208/1	4,160	1, 2, 3	1, 2, 3

1. PROVIDE WITH CAST ALUMINUM ALLOY CASING, CELCON PLASTIC ELEMENT ASSEMBLY WITH NICHROME COILS OR APPROVED EQUAL.
2. HOT WATER STORAGE VESSELS ARE PROHIBITED.
3. PROVIDE WITH ADAPTORS AND COMPRESSION FITTINGS.

1. PROVIDE WITH CAST ALUMINUM ALLOY CASING, CELCON PLASTIC ELEMENT ASSEMBLY WITH NICHROME COILS OR APPROVED EQUAL.
2. HOT WATER STORAGE VESSELS ARE PROHIBITED.
3. PROVIDE WITH ADAPTORS AND COMPRESSION FITTINGS.



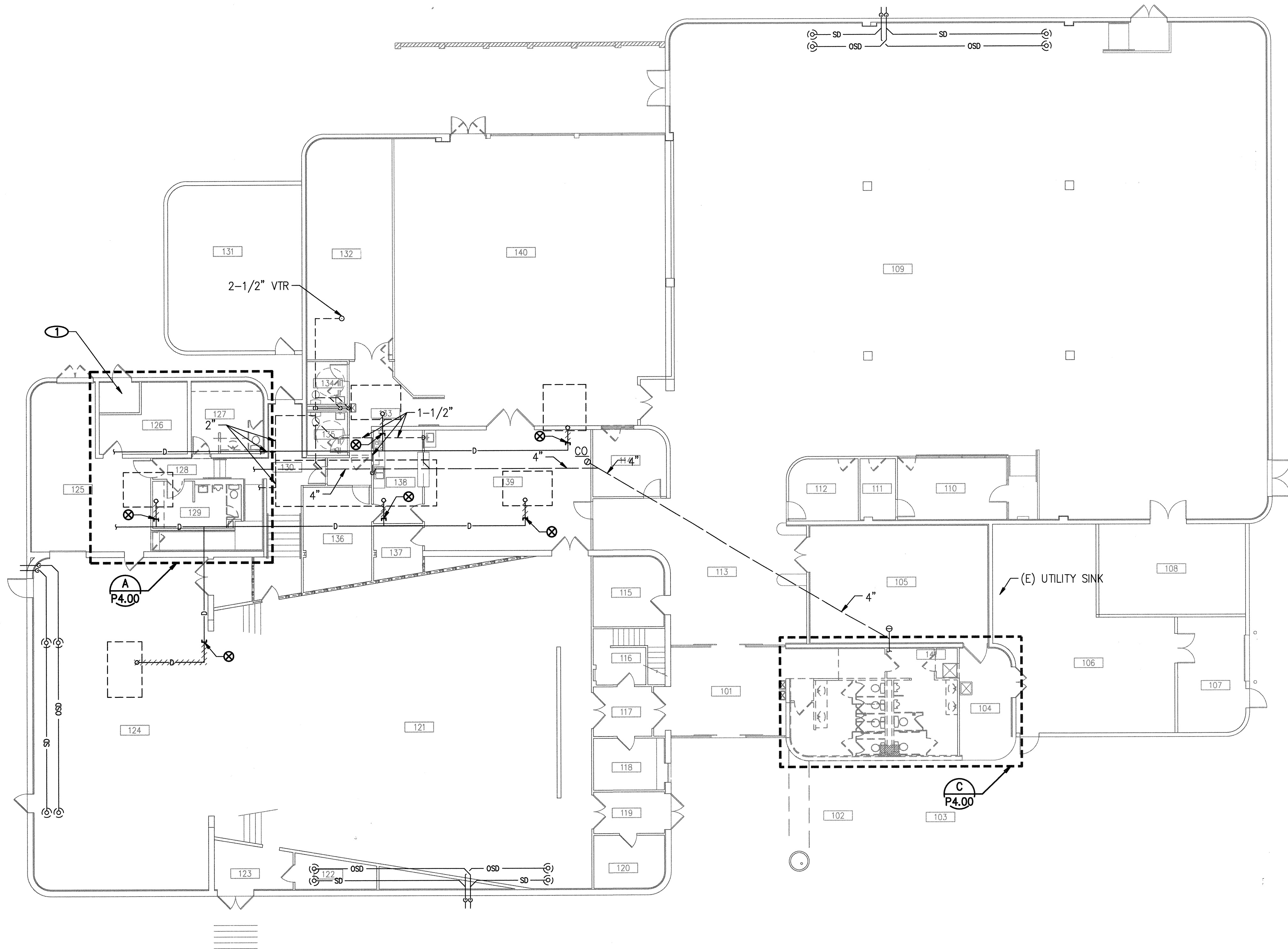
DRAWN	JU
FILE	
DATE	05/02/2016
SCALE	
BID NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806

P0.04

JUN 28 2016 DK

BUREAU VERITAS NORTH AMERICA, INC.

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DEMOLITION WASTE AND VENT PLAN

3/32" = 1'-0" (A)

REVIEWED FOR CODE COMPLIANCE
JUN 28 2016 DK
BUREAU VERITAS NORTH AMERICA, INC.

NOTICE

1. NOT USED.

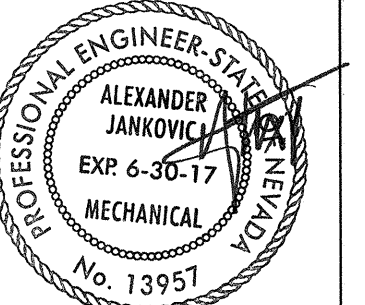
NOTES

1. EXISTING BOILER/WATER HEATER TO BE SALVAGED AND DELIVERED TO THE CITY OF LAS VEGAS - EAST YARD.



REVISIONS

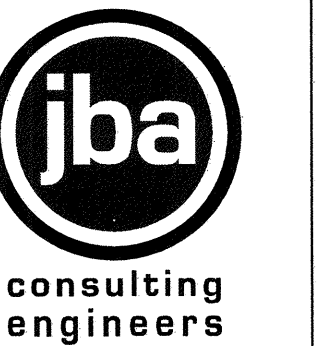
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MAY 31 2016

Charleston Heights Community Center
- Renovation -

DEMOLITION WASTE AND VENT PLAN



JBA Las Vegas
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Las Vegas, NV 89118
P: 702.362.5000

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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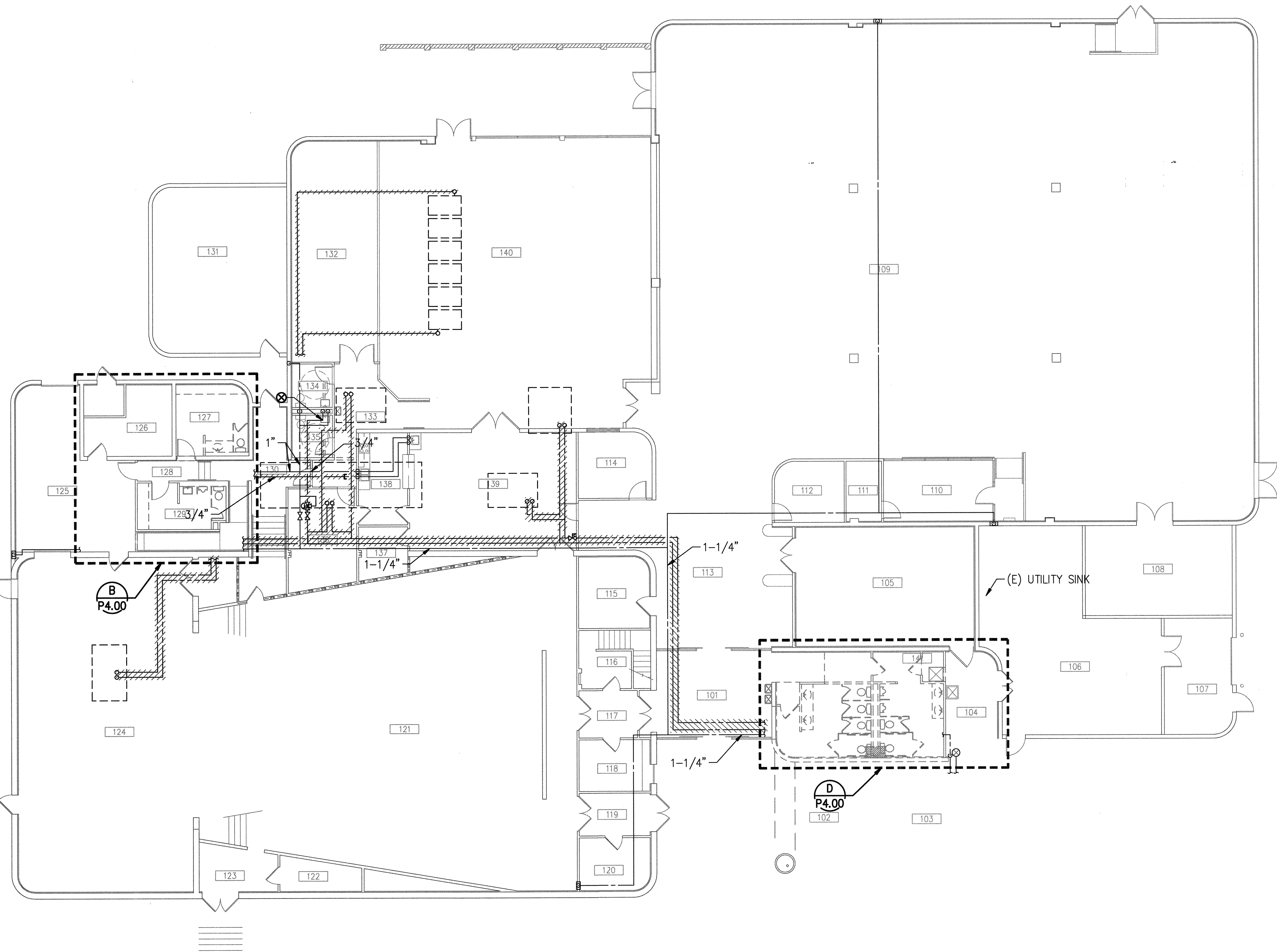
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FILE	
DATE	05/02/2016
SCALE	
STD NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806
SHT NO	

PD2.10

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DEMOLITION DOMESTIC WATER PLAN

3/32" = 1'-0"

A

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NOTICE

1. NOT USED.

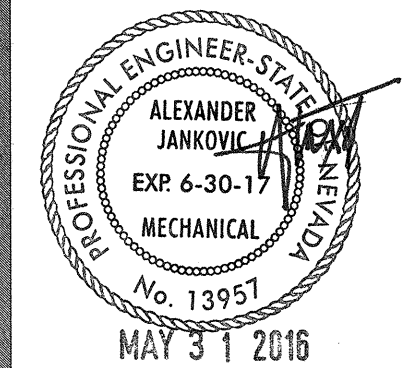
NOTES

1. NOT USED.



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Charleston Heights Community Center

- Renovation -

DEMOLITION DOMESTIC WATER PLAN



jba
consulting
engineers
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FILE	
DATE	05/02/2016
SCALE	
GRID NO	15.59806.JH
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HANSEN NO	59806
SHT NO	

PD3.10

#15.0821

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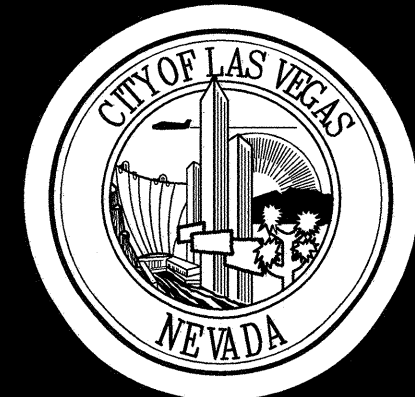
PLUMBING ROOF PLAN A

3/32" = 1'-0"

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JUN 28 2016 DK
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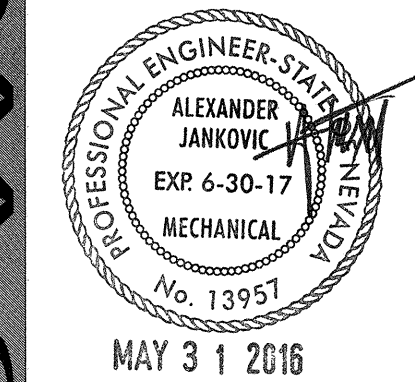
NOTICE
1. NOT USED.

NOTES
1. NOT USED.



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- Renovation -

PLUMBING ROOF PLAN



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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

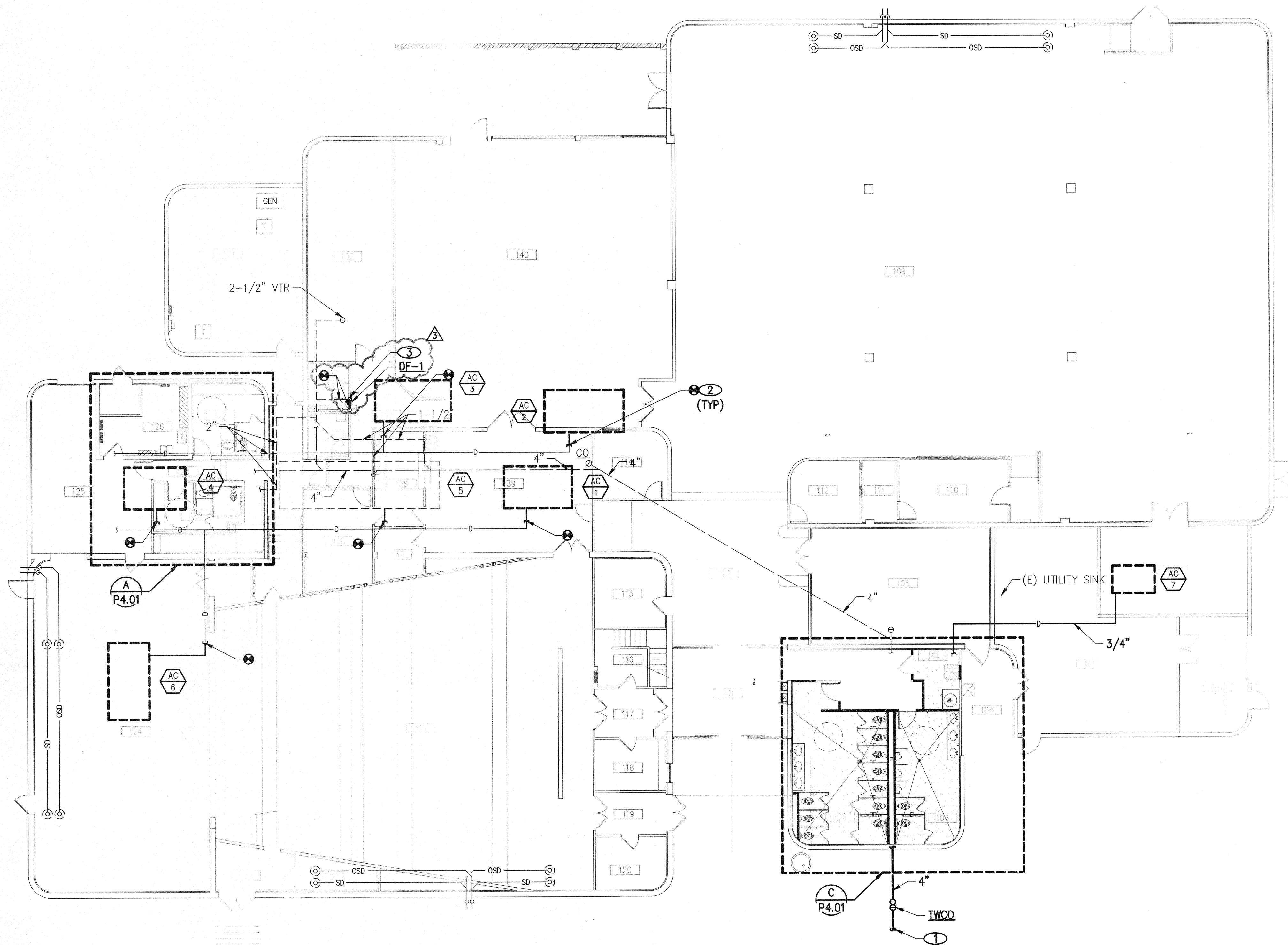
333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 220-6535
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DRAWN	JU
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DATE	05/02/2016
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WASTE AND VENT PLAN A
3/32" = 1'-0"

NOTICE

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WASTE, VENT, DOMESTIC WATER, AND MEDICAL GAS SERVICES PRIOR TO THE START OF WORK.
2. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, TYPE, AND LOCATION OF ALL POINTS OF CONNECTION PRIOR TO THE START OF WORK.

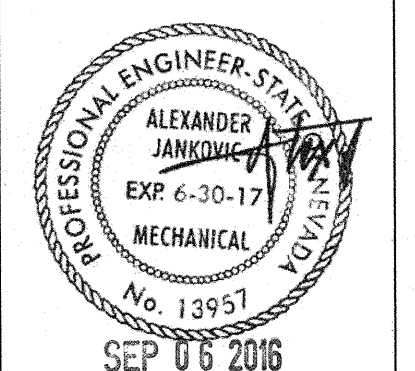
NOTES

1. SEE CIVIL PLANS FOR CONTINUATION.
2. CONNECT 3/4" CONDENSATE DRAIN TO EXISTING DRAIN LINE. FIELD VERIFY EXACT LOCATION.
3. 2" W DOWN IN WALL AND CONNECT TO EXISTING WASTE LINE. 2" V UP IN WALL AND CONNECT TO VENT PIPING IN CEILING SPACE.



REVISIONS
3. PLAN CHECK COMMENTS

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Charleston Heights Community Center
- Renovation -

WASTE AND VENT PLAN



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DRAWN	JU
FILE	
DATE	05/02/2016
SCALE	
BID NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806
SHT NO	

P2.10

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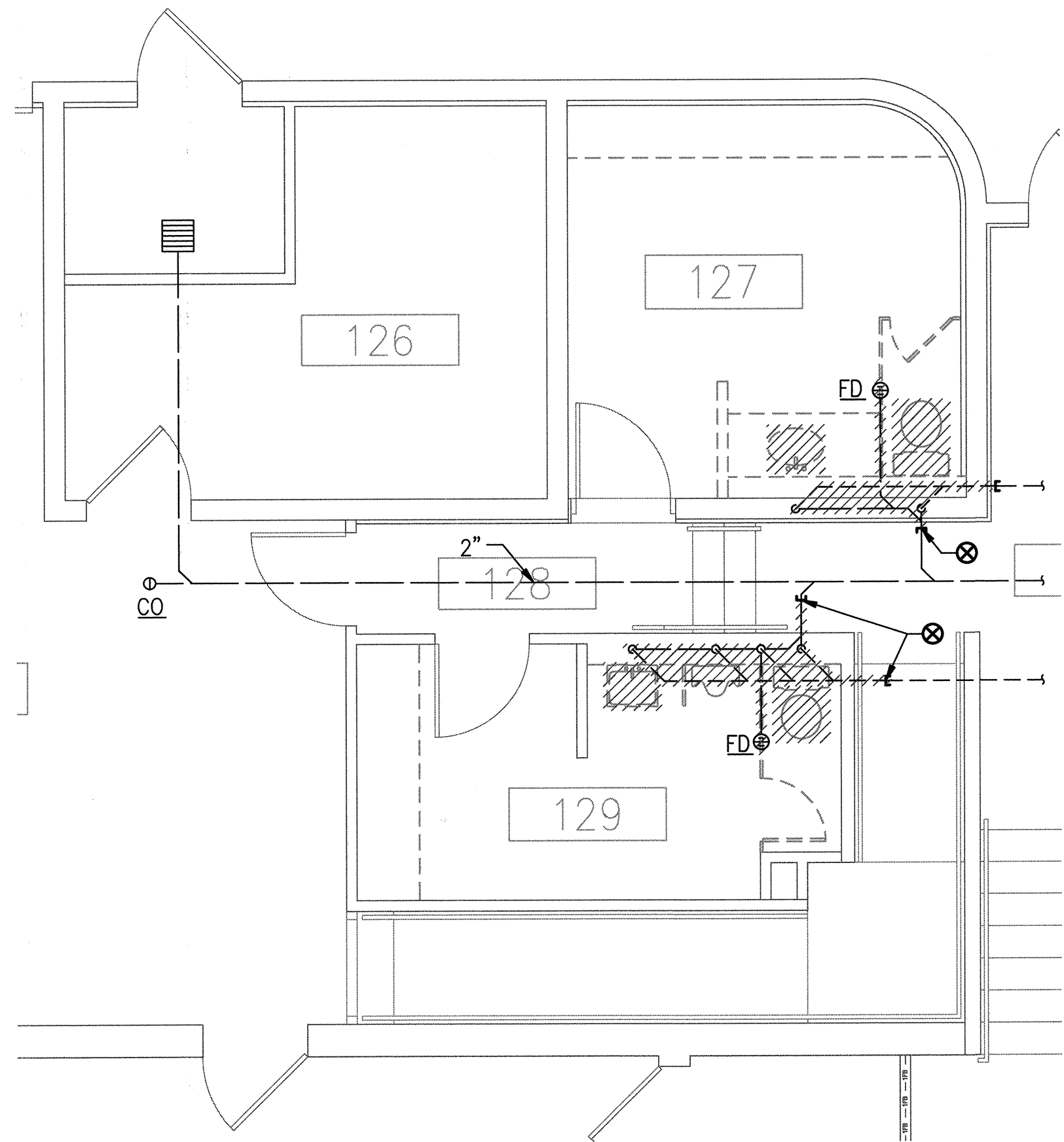
CITY OF LAS VEGAS
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BUREAU VERITAS NORTH AMERICA, INC.

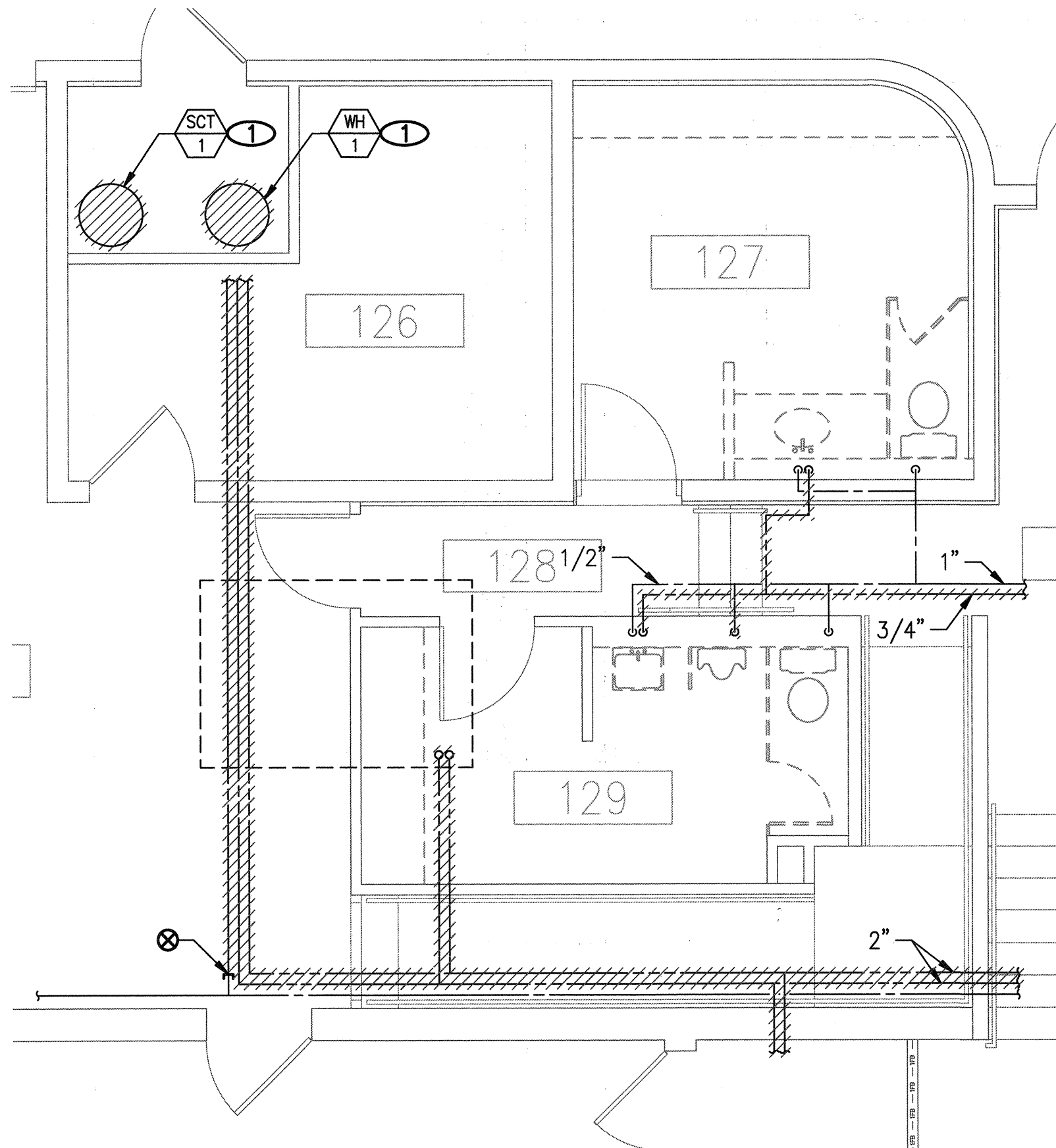
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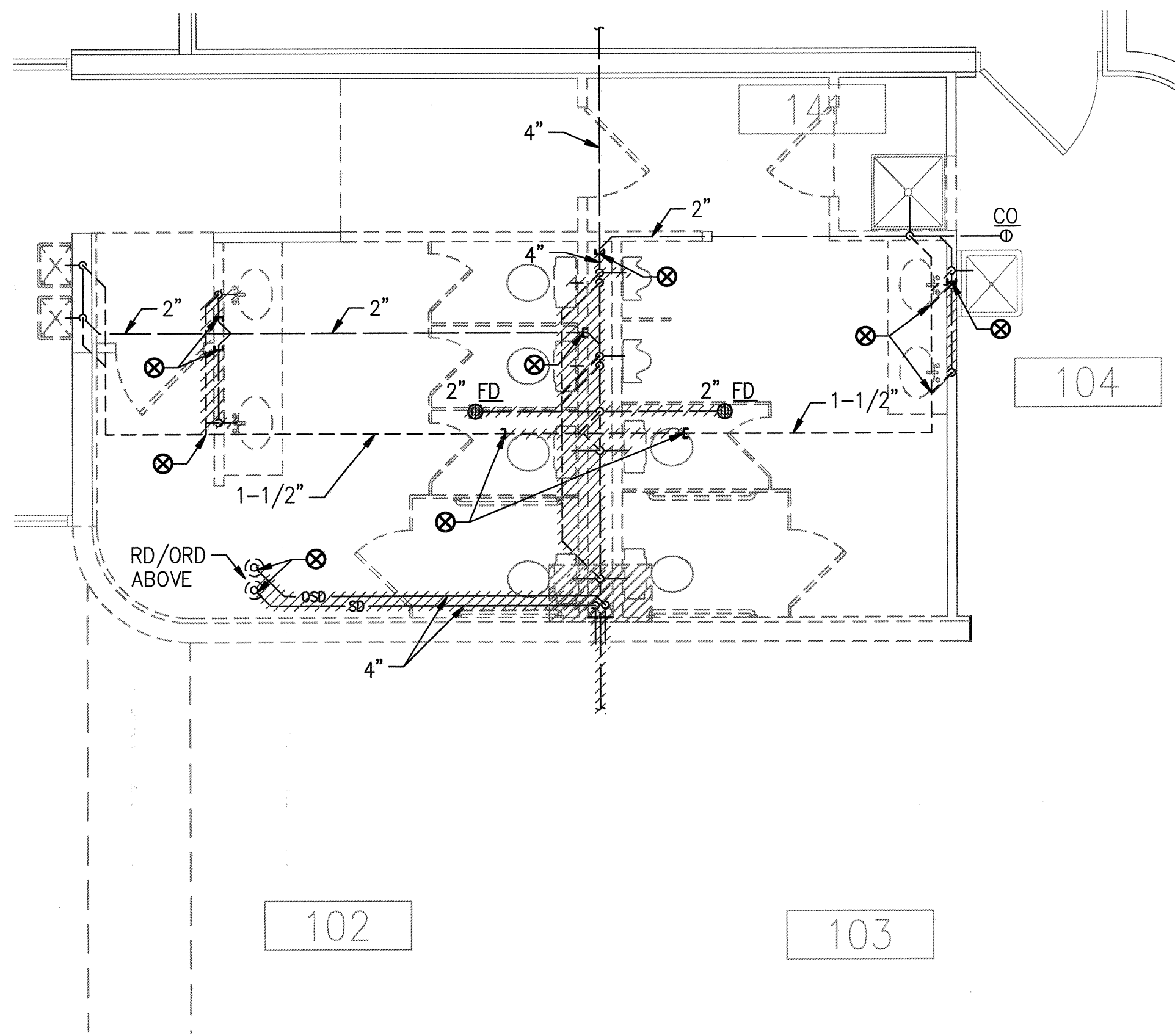
ENLARGED DEMOLITION WASTE AND VENT PAN
1/4" = 1'-0"

A
P4.00



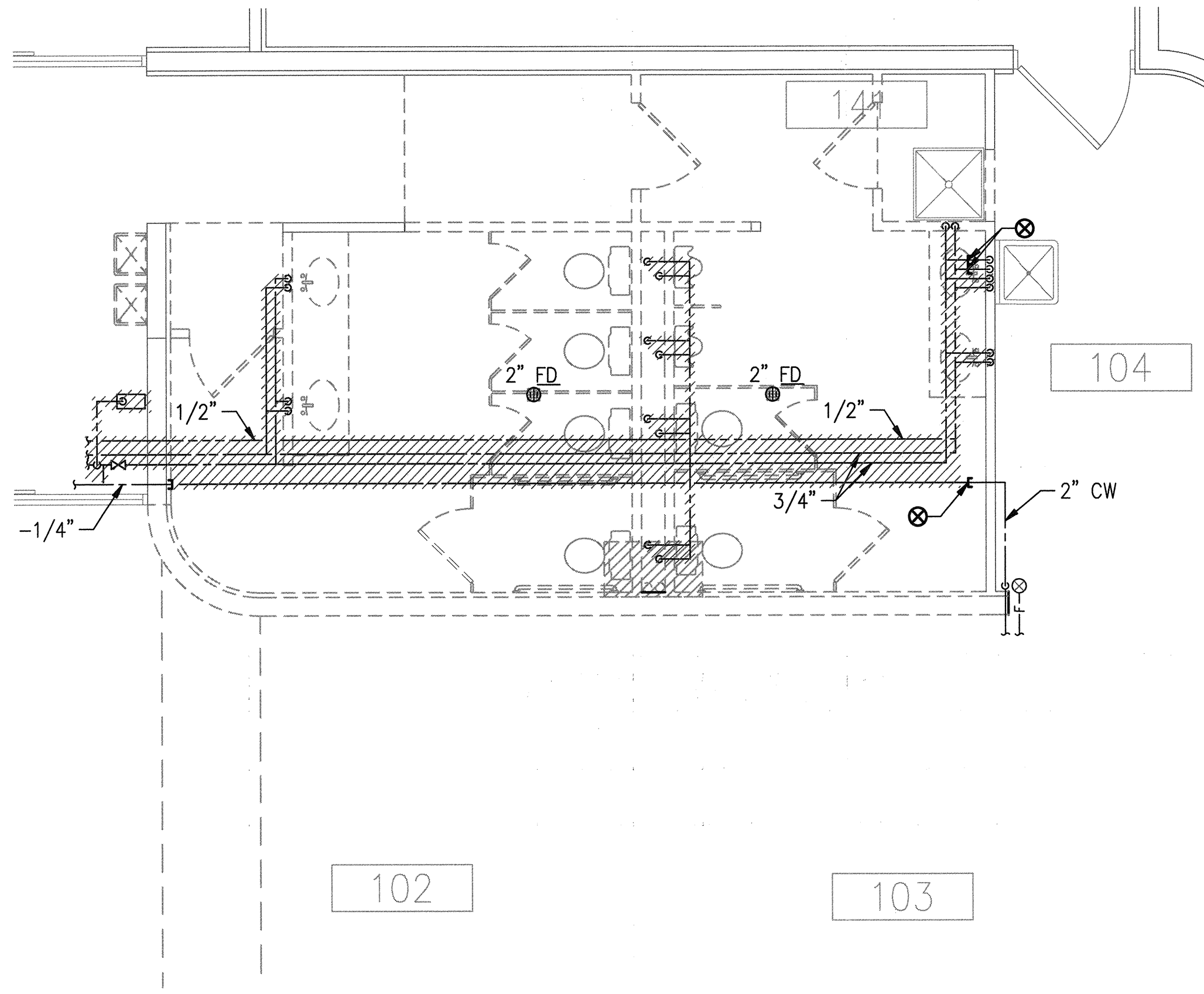
ENLARGED DEMOLITION DOMESTIC WATER PAN
1/4" = 1'-0"

B
P4.00



ENLARGED DEMOLITION WASTE AND VENT PLAN
1/4" = 1'-0"

C
P4.00



ENLARGED DEMOLITION DOMESTIC WATER PLAN
1/4" = 1'-0"

D
P4.00

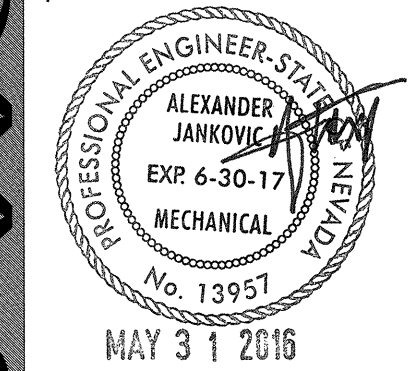
NOTES

- 1 EXISTING BOILER/WATER HEATER TO BE REMOVED AND SALVAGED AND DELIVERED TO CITY OF LAS VEGAS - EAST YARD.



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CHARLESTON HEIGHTS COMMUNITY CENTER
- RENOVATION -

ENLARGED PLUMBING DEMOLITION PLANS

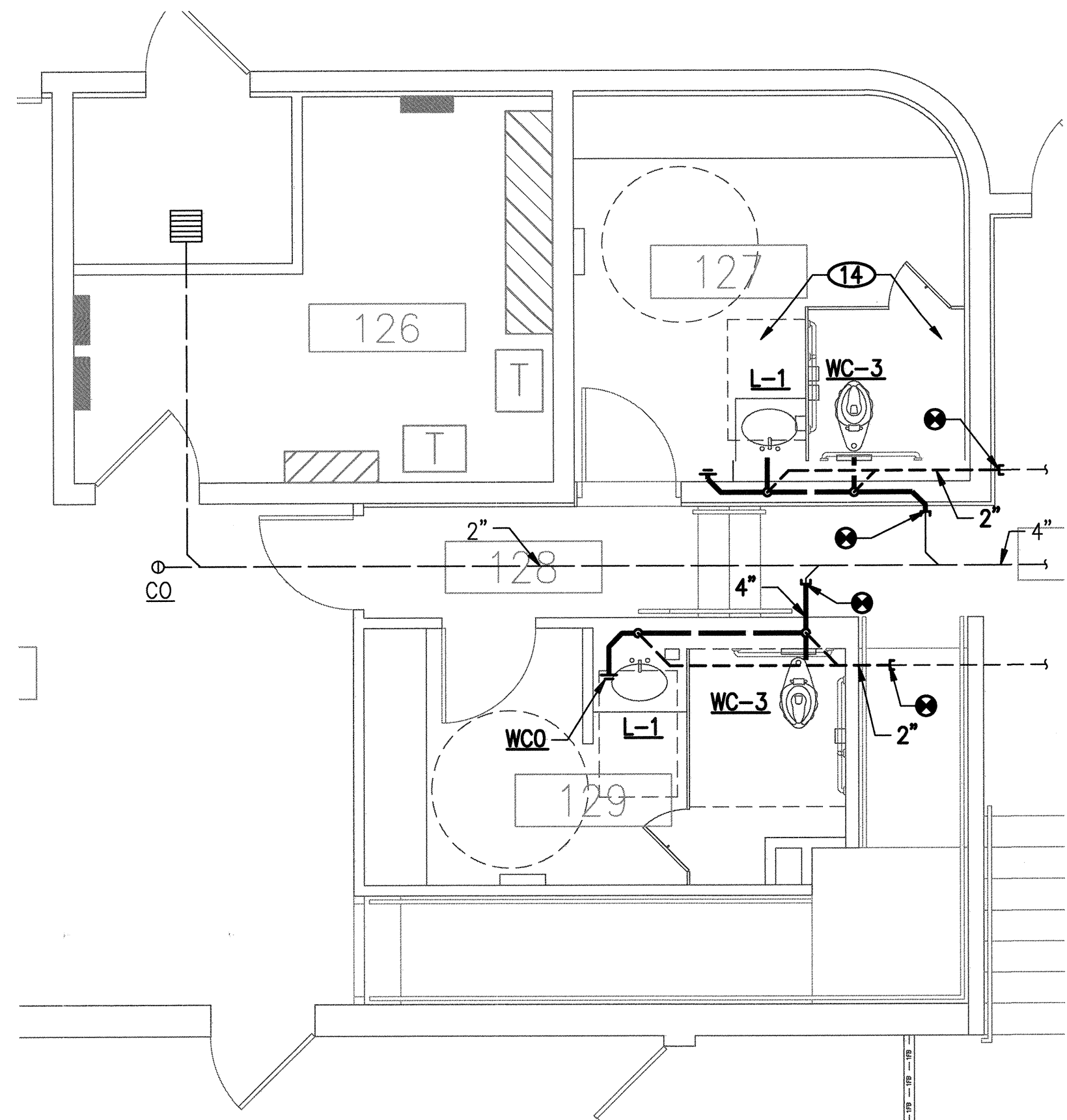


OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE LAS VEGAS, NEVADA 89106 PHONE: (702) 384-4846 FAX: (702) 384-4846 TDD: (702) 384-9106	DRAWN: JU DATE: 05/02/2016 SCALE: BID NO: 15.59806.JH CLV DWG NO: 620-108 HANSEN NO: 59806 SHEET NO: P4.00
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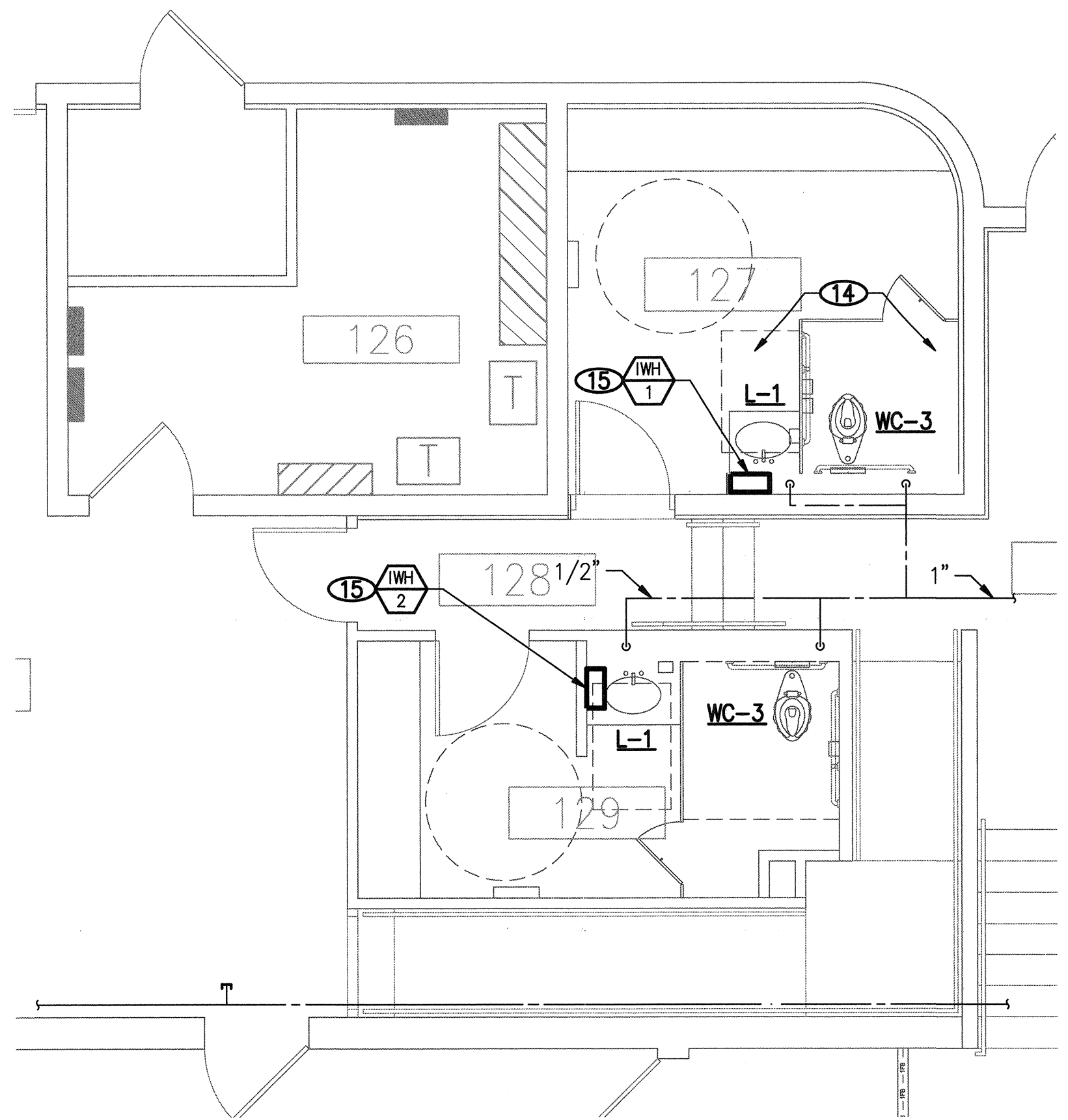
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ENLARGED WASTE AND VENT PAN

1/4" = 1'-0"

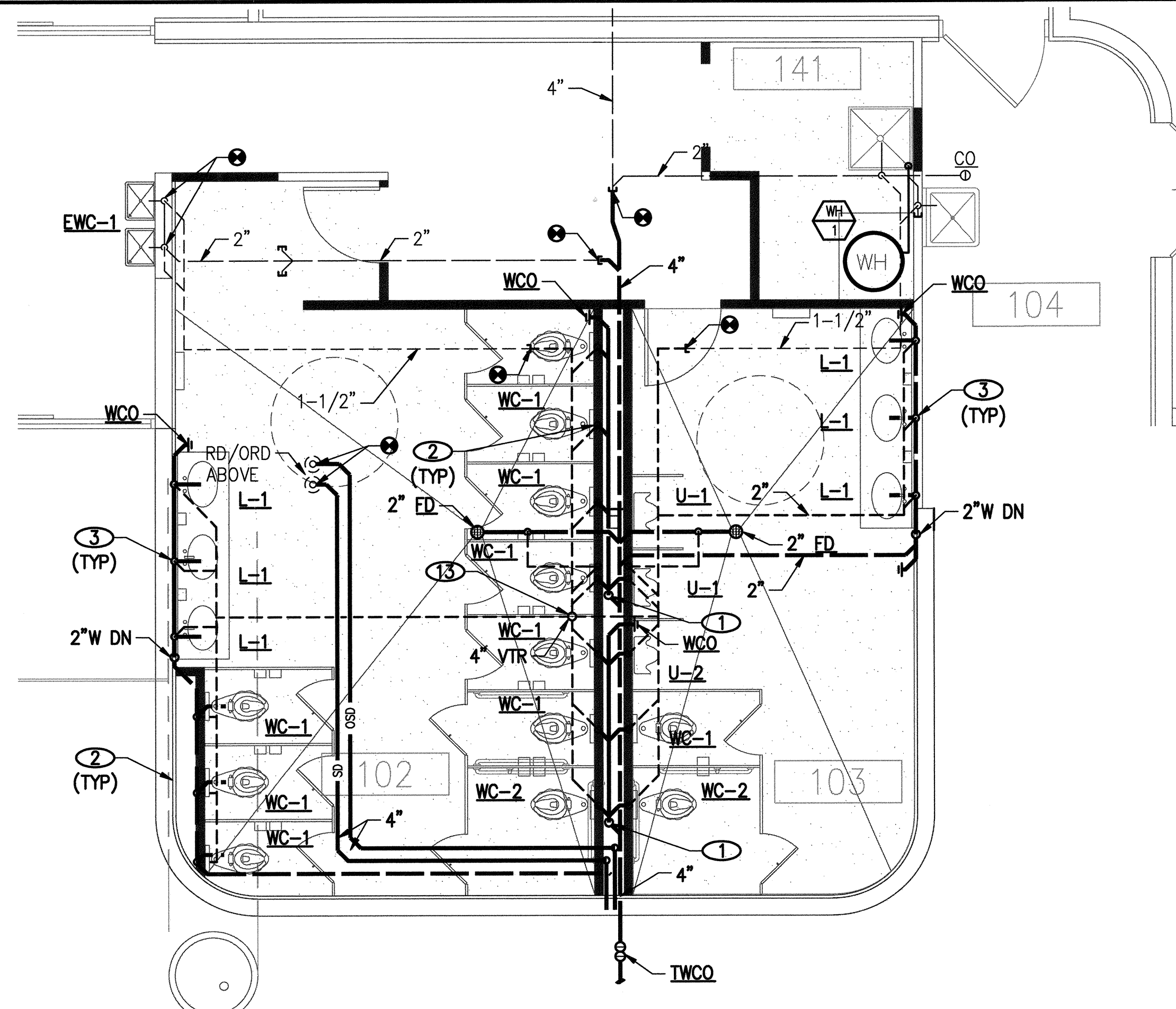
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P4.01



ENLARGED DOMESTIC WATER PAN

1/4" = 1'-0"

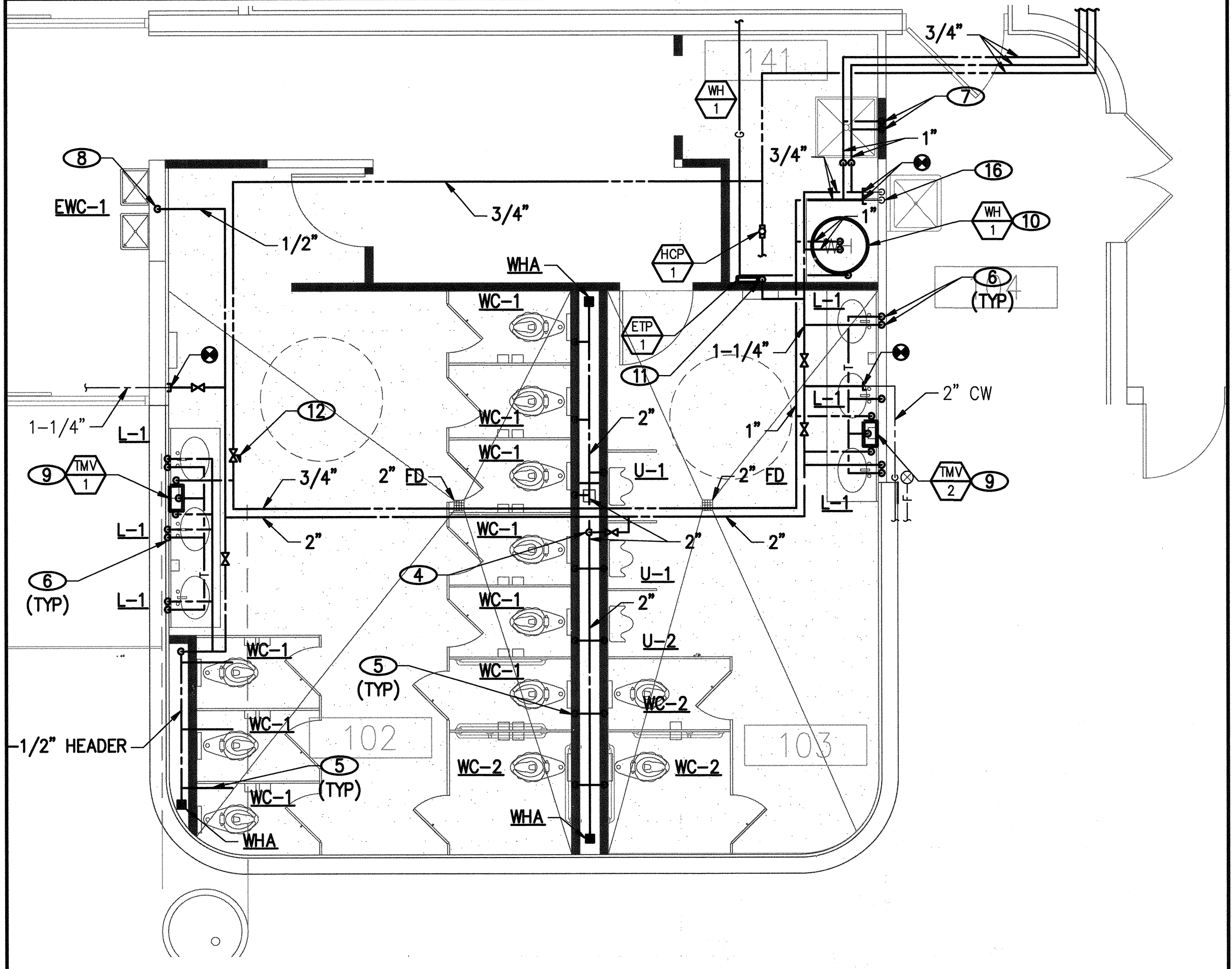
B
P4.01



ENLARGED WASTE AND VENT PLAN

1/4" = 1'-0"

C
P4.01



ENLARGED DOMESTIC WATER PLAN

1/4" = 1'-0"

D
P4.01

NOTES

- ① 4" W DOWN FROM HEADER TO UNDERGROUND.
- ② 4" W DOWN, 2" V UP AND CONNECT TO EACH WC.
- ③ 2" W DOWN, 1-1/2" V UP AND CONNECT TO EACH LAVATORY/SINK.
- ④ 2" CW DOWN TO 2" MANIFOLD WITHIN PLUMBING CHASE.
- ⑤ CONNECT 1-1/4" CW TO EACH WC.
- ⑥ CONNECT 3/4" CW, 3/4" TW TO EACH LAVATORY.
- ⑦ 3/4" CW, 3/4" HW DOWN IN WALL AND CONNECT TO SS-1.
- ⑧ 1/2" CW DOWN IN WALL AND CONNECT TO EWC-1.
- ⑨ THERMOSTATIC MIXING VALVE. PROVIDE ACCESS PANEL PER UMC. REFER TO 2/P6.00 FOR DESIGN DETAIL.
- ⑩ 1" CW, 1" HW DOWN AND CONNECT TO WH-1. REFER TO 1/P6.00 FOR DESIGN DETAIL.
- ⑪ 1/2" CW DOWN IN WALL AND CONNECT TO ETP-1. ROUTE 1/2" CW LINE TO EACH ED.
- ⑫ CIRCUIT SETTER OR BALANCING VALVE IN HWR.
- ⑬ 4" VENT THROUGH ROOF. REFER TO 6/P6.01 FOR DESIGN DETAIL.
- ⑭ EXISTING PLUMBING FIXTURES TO BE REPLACED WITH NEW.
- ⑮ INSTANTANEOUS WATER HEATER. REFER TO 1/P6.02 FOR DESIGN DETAIL.
- ⑯ 3/4" CW, 3/4" HW DOWN IN WALL AND CONNECT TO EXISTING UTILITY SINK.



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Charleston Heights Community Center
- Renovation -

ENLARGED PLUMBING PLANS



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DEPARTMENT OF PUBLIC WORKS

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FAX: (702) 384-4846
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DRAWN: JU
FILE:
DATE: 05/02/2016
SCALE:
BID NO: 15.59806.JH
CLV DWG NO: 620-10B
HANSER NO: 59806
SHEET NO: P4.01

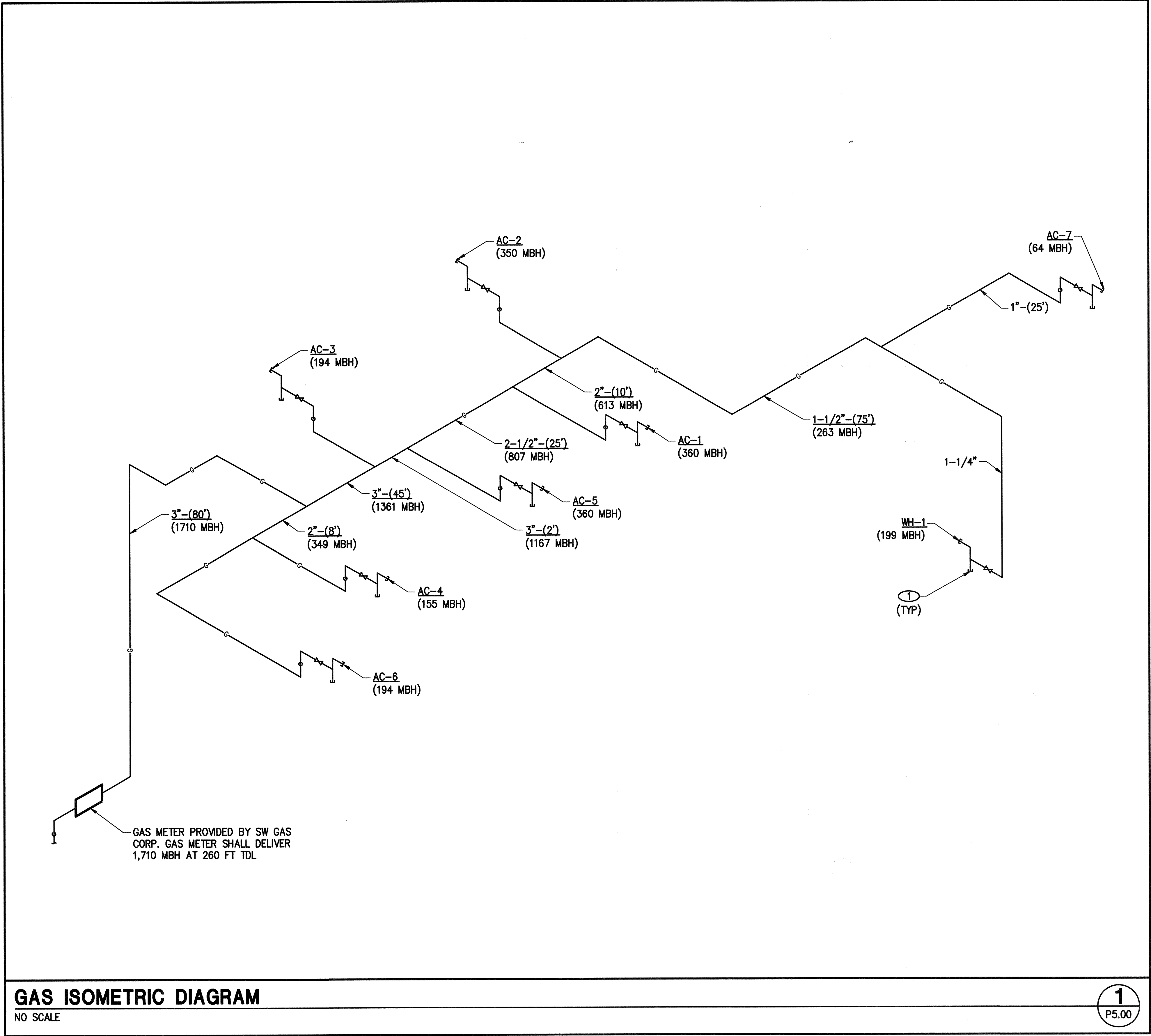
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BUREAU VERITAS NORTH AMERICA, INC.

#15.0821

P4.01



NOTICE

1. GAS PIPE SIZING BASED ON LOW PRESSURE GAS SERVICE PER 2012 UPC TABLE 1216.2 (1).

NOTES

① PROVIDE SEDIMENT TRAP DOWNSTREAM OF THE EQUIPMENT SHUT-OFF VALVE AS CLOSE TO THE INLET OF THE EQUIPMENT AS PRACTICAL PER UPC, 1211.8.

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REVISIONS

NO.	DESCRIPTION

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DEPARTMENT OF PUBLIC WORKS

Charleston Heights Community Center
- Renovation -

GAS ISOMETRIC DIAGRAM



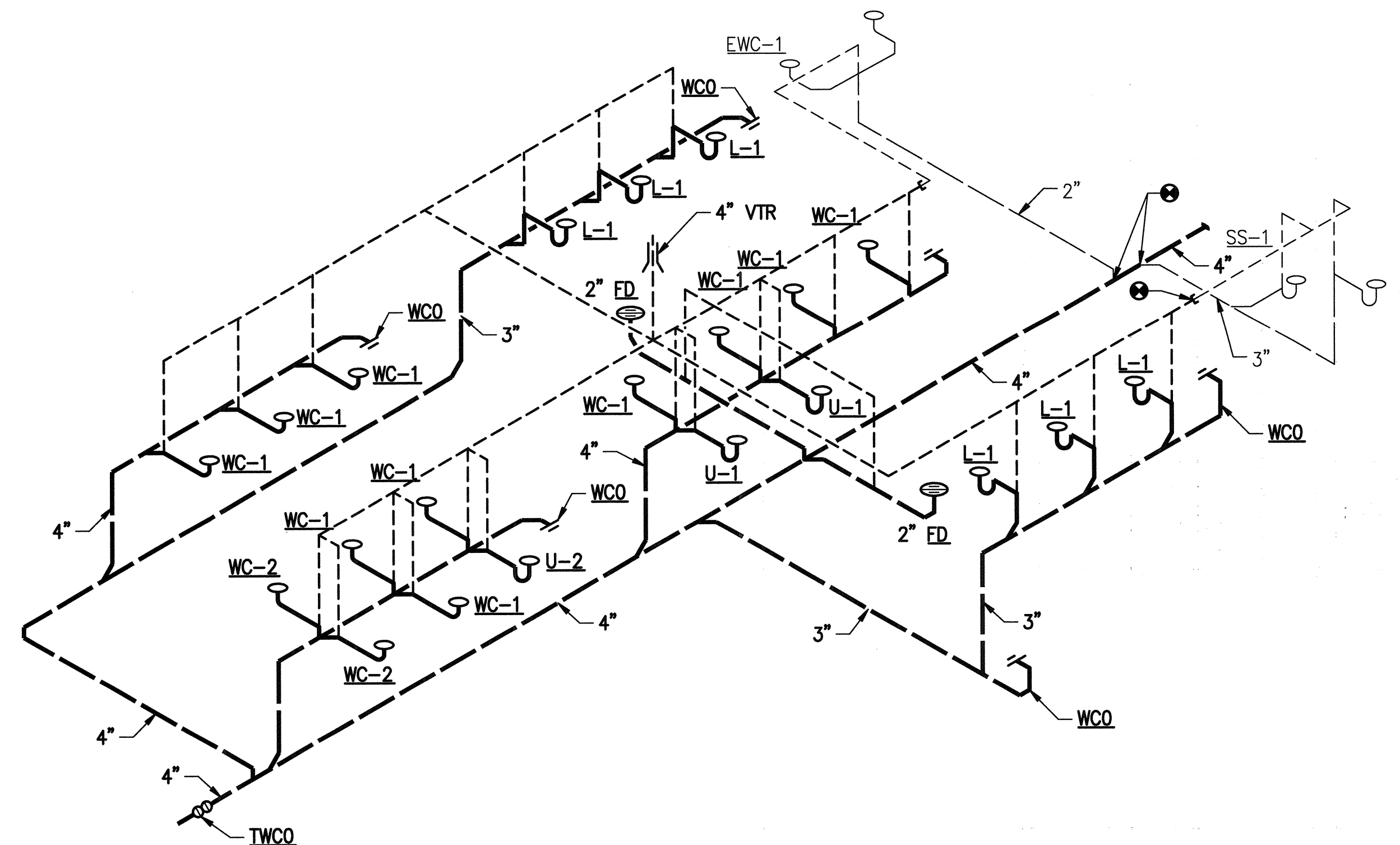
OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

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PHONE: (702) 229-6535
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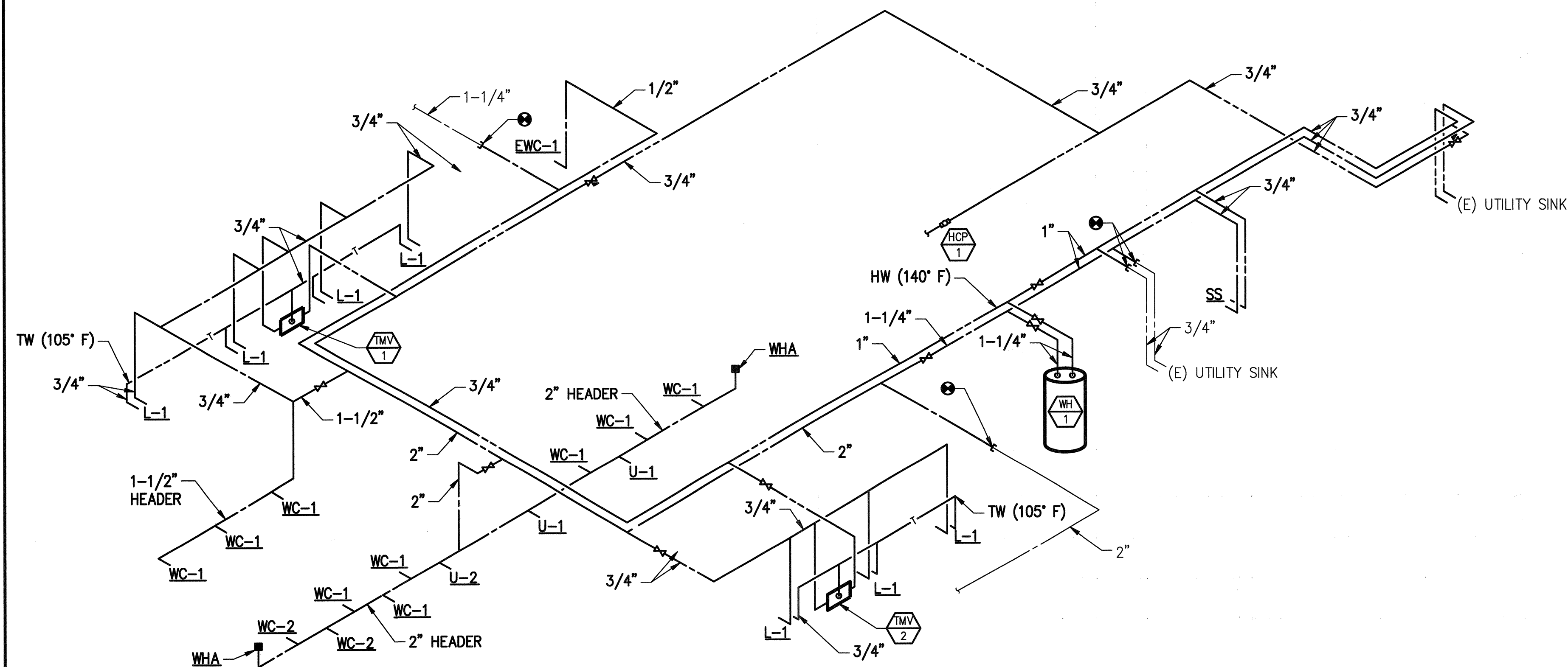
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#15.0821



WASTE AND VENT ISOMETRIC DIAGRAM
NO SCALE

1
P5.01



DOMESTIC WATER ISOMETRIC DIAGRAM

NO SCALE

2
P5.0

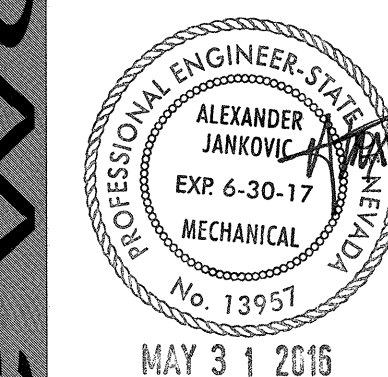
NOTICE

1. PROVIDE DOMESTIC HOT WATER RE-CIRCULATION AT EACH POINT IMMEDIATELY BEHIND EACH BANK OF LAVATORY FAUCETS.
2. PROVIDE A BALANCING VALVE AT EACH DOMESTIC HOT WATER RE-CIRCULATING BRANCH.



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Charleston Heights Community Center

PLUMBING | METRIC | DIAGRAM



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Las Vegas, NV 89118
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DRAWN	JU
FILE	
DATE	05/02/2016
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BID NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806
SHIT NO	

P5.01

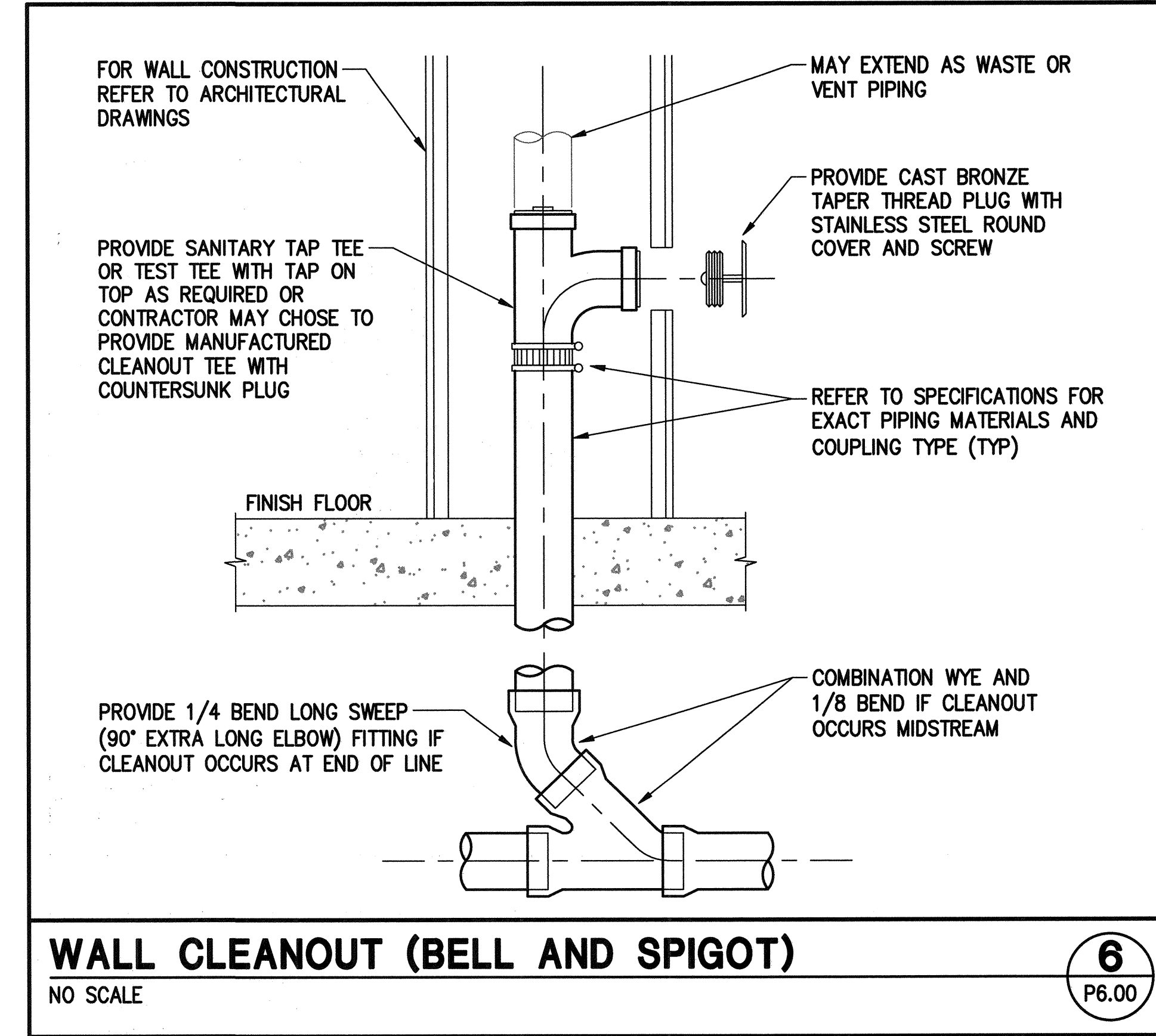
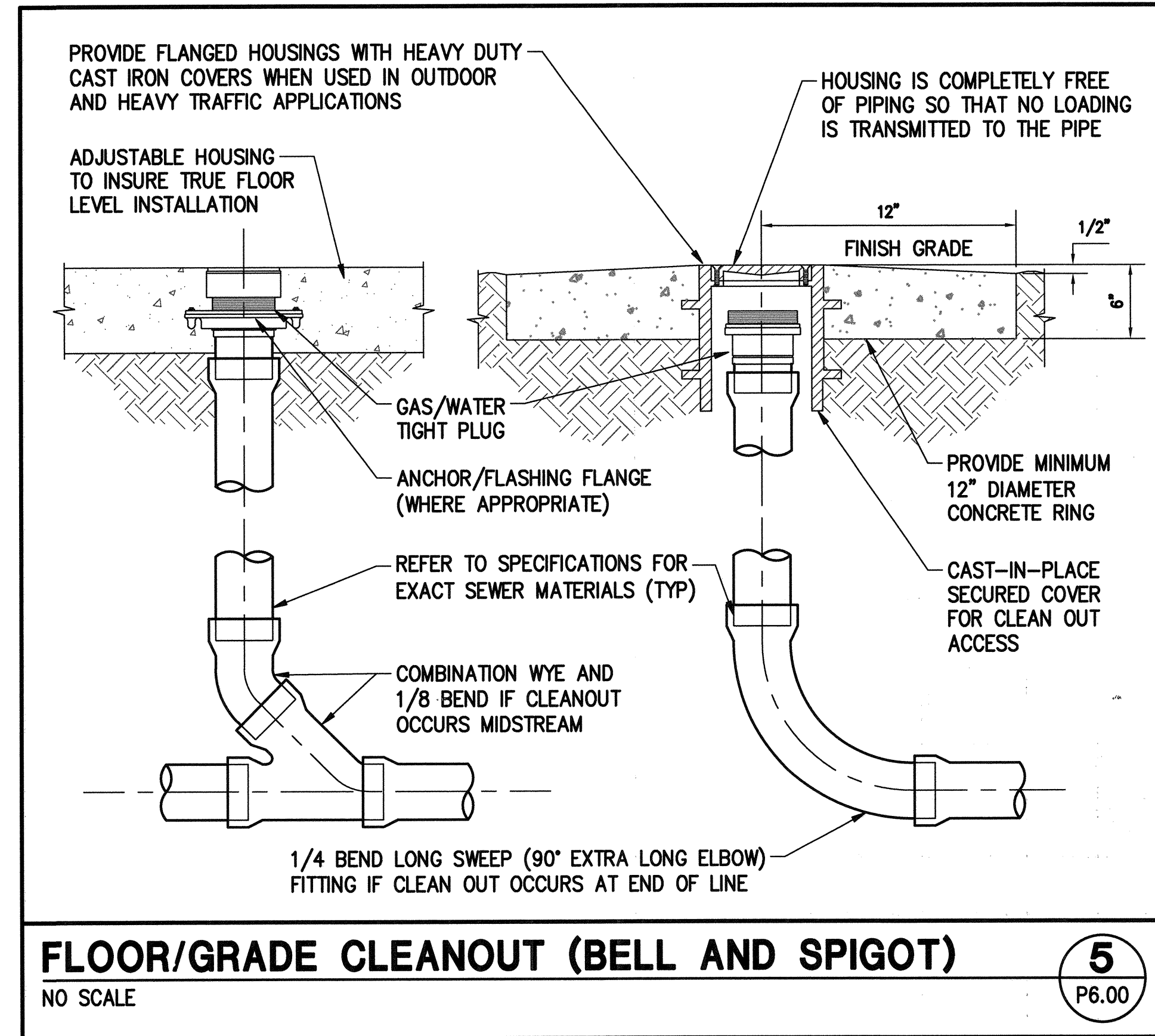
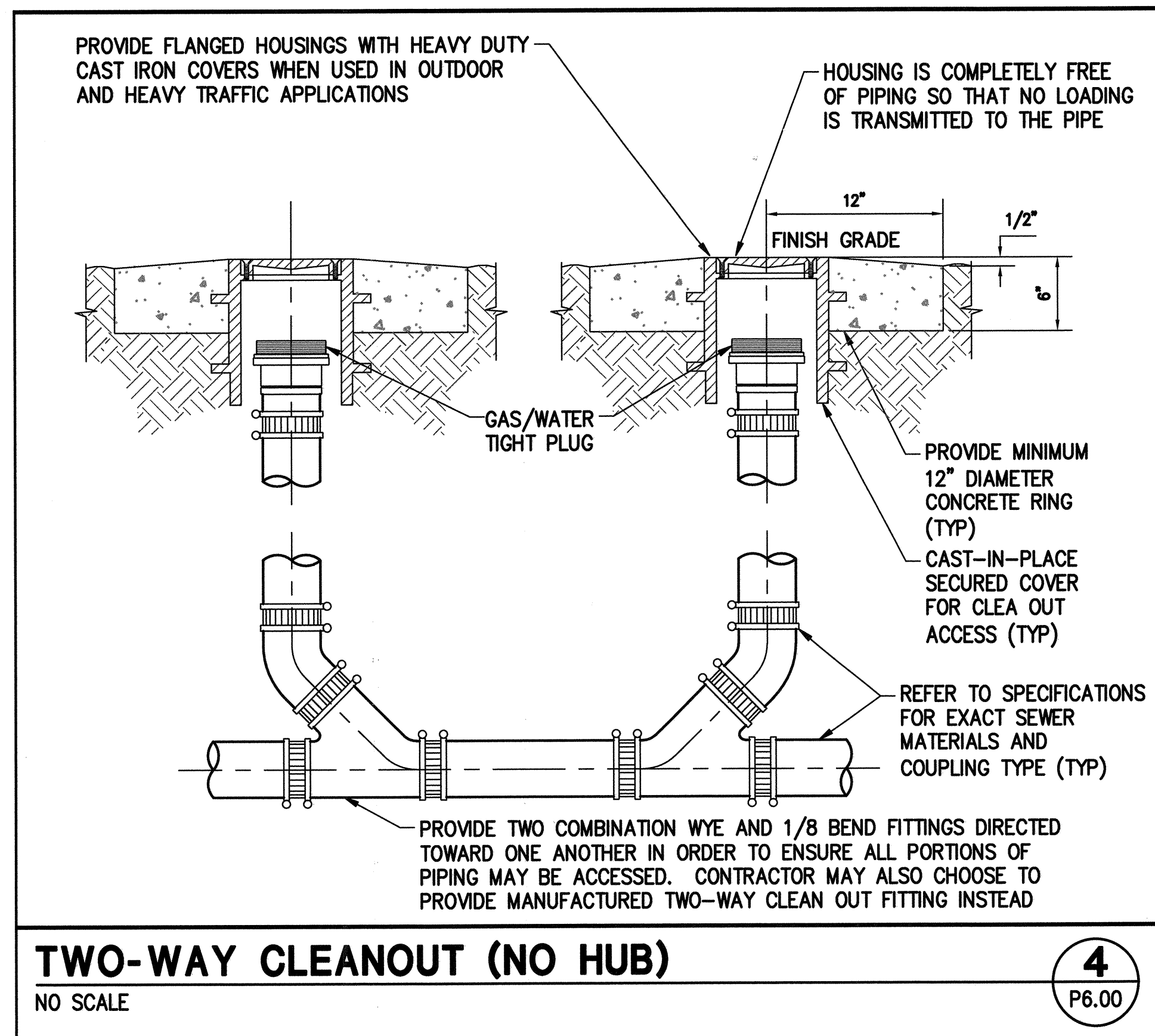
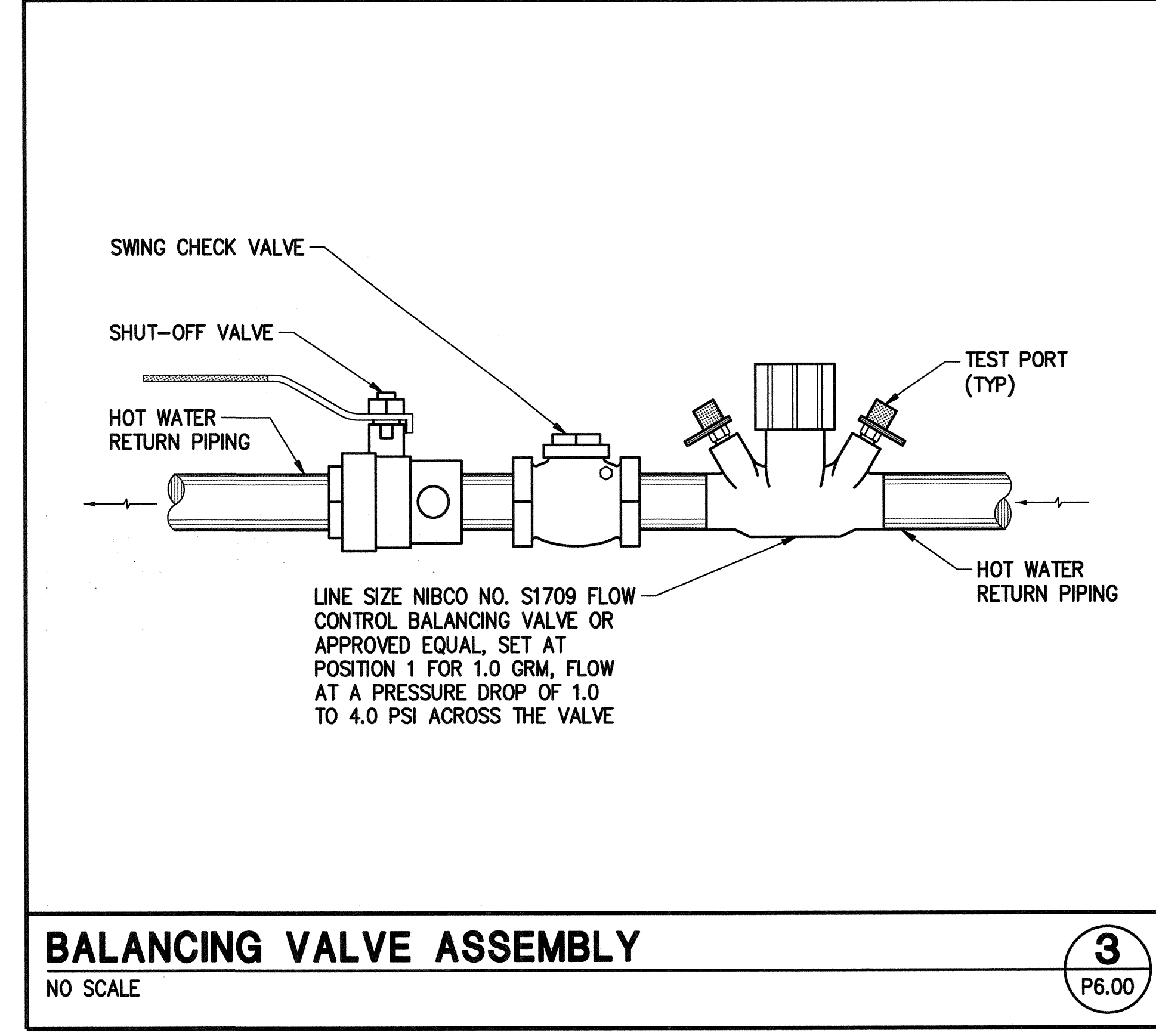
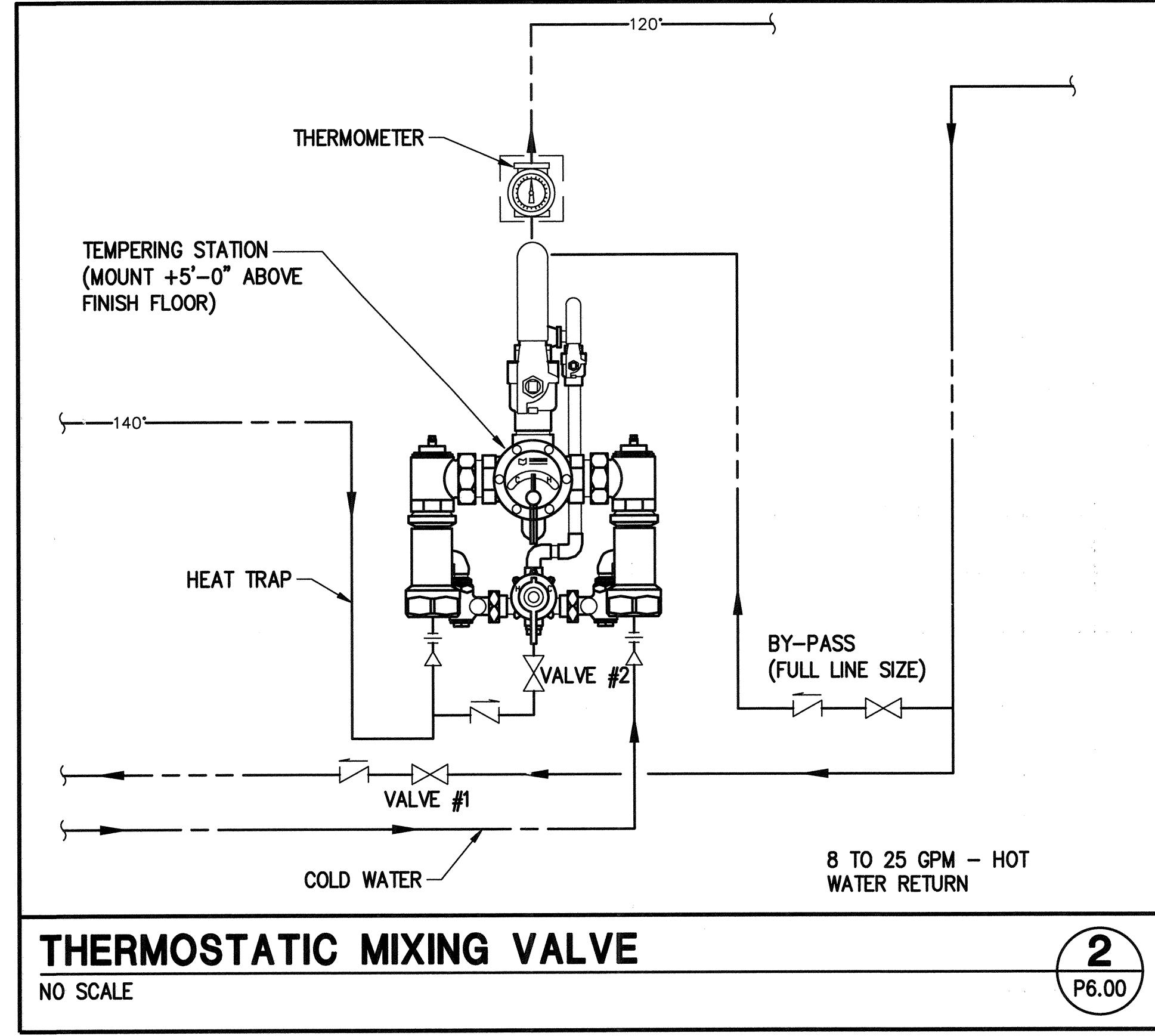
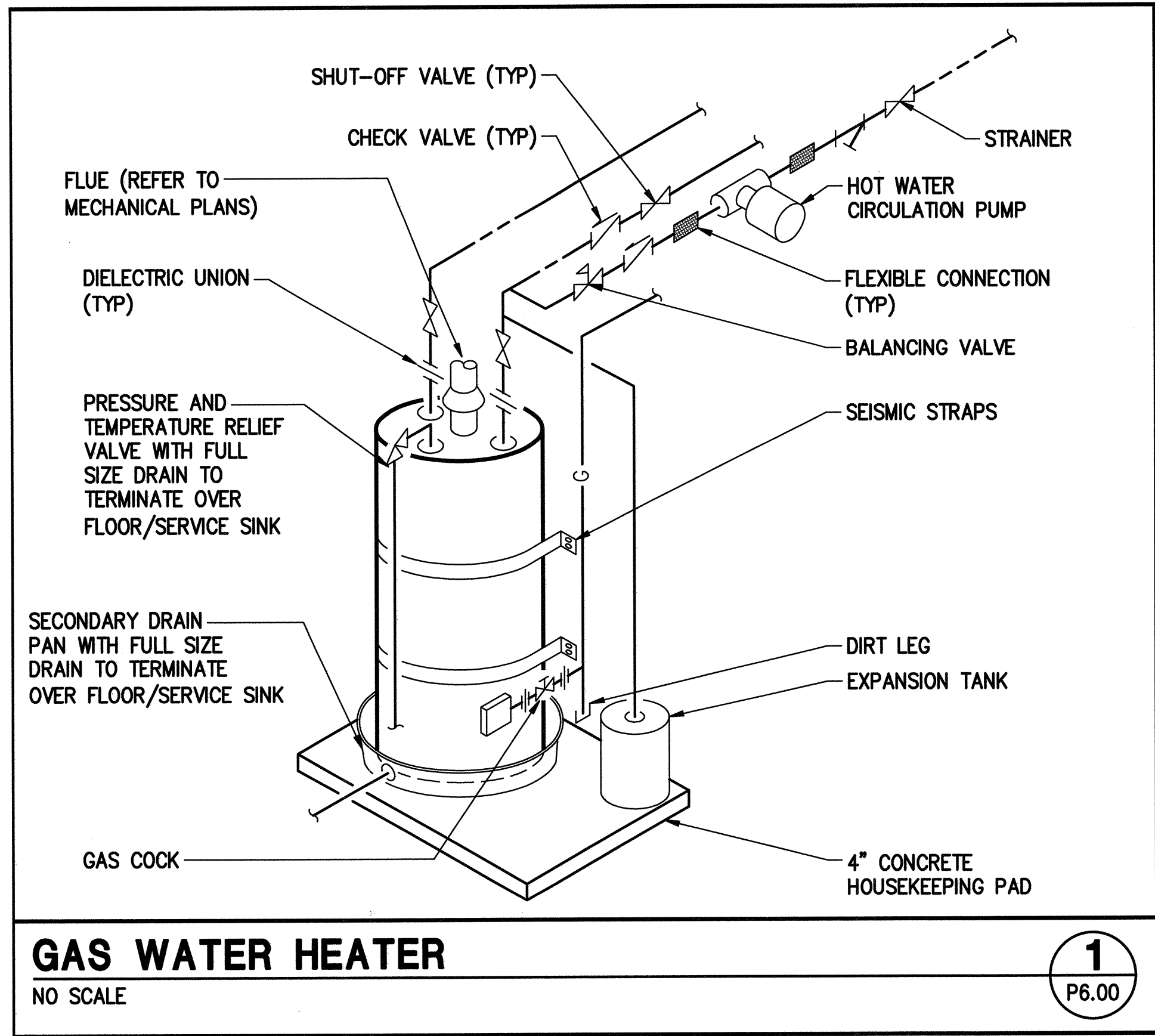
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BUREAU VERITAS NORTH AMERICA, INC.

#15.0821

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CITY OF LAS VEGAS
NEVADA

REVISIONS

NO.	DATE	DESCRIPTION

ARCHITECT

ALEXANDER JANKOVIC
EXP. 6-30-17
MECHANICAL
No. 13951
MAY 31 2016

DESIGN DETAILS

Charleston Heights Community Center
- Renovation -

iba
consulting
engineers

JBA Las Vegas
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
LAS VEGAS, NEVADA 89106
PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

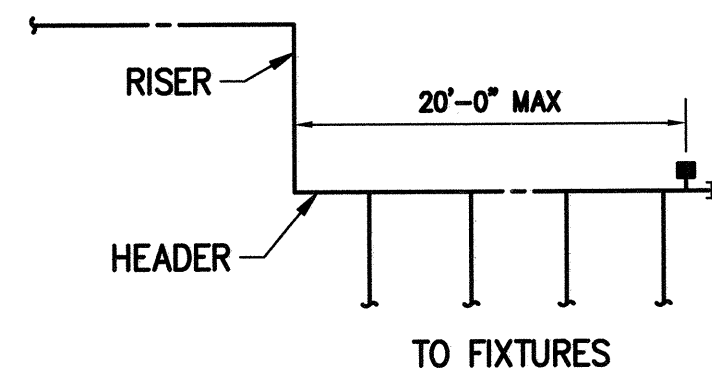
DRAWN: JU
FILE:
DATE: 05/02/2016
SCALE:
BID NO: 15.59806.JH
CLV DWG NO: 620-10B
HANSEN NO: 59806
SHT NO:

P6.00

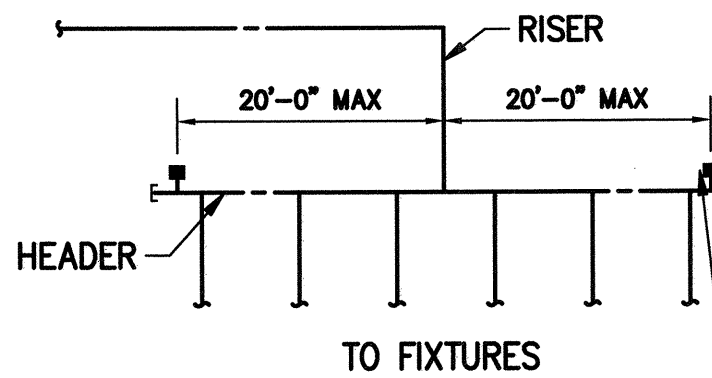
REVIEWED FOR CODE COMPLIANCE
JUN 28 2016 DK
BUREAU VERITAS NORTH AMERICA, INC.

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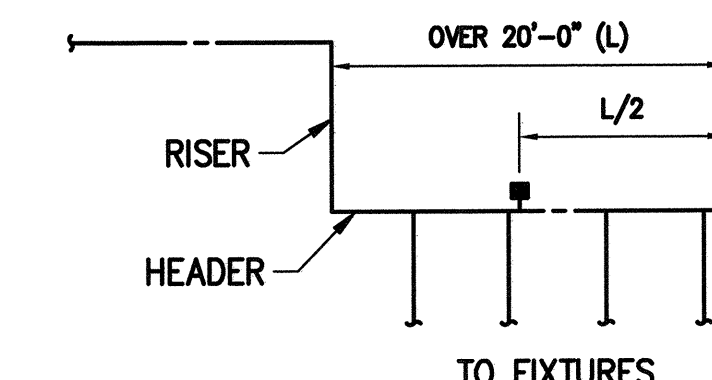
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TO FIXTURES
OPTION A



TO FIXTURES
OPTION B

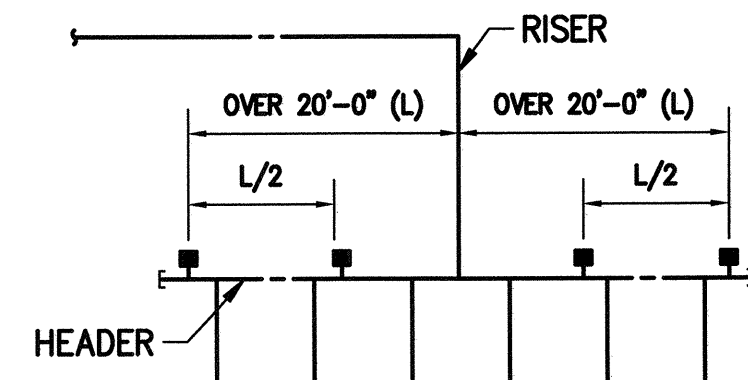


TO FIXTURES
OPTION C

NOTICE:

1. SIZE AND PROVIDE WATER HAMMER ARRESTORS PER MANUFACTURER'S RECOMMENDATIONS.
2. TYPICAL APPLICATION FOR BOTH DOMESTIC COLD AND HOT WATER SYSTEMS.
3. WATER HAMMER ARRESTORS SHOWN ON DETAIL ARE PER MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EACH INSTALLATION.
4. ADD ADDITIONAL WATER HAMMER ARRESTORS AS REQUIRED PER PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARDS OR PER MANUFACTURER'S RECOMMENDATIONS.

WHA - WATER HAMMER ARRESTOR (TYP)

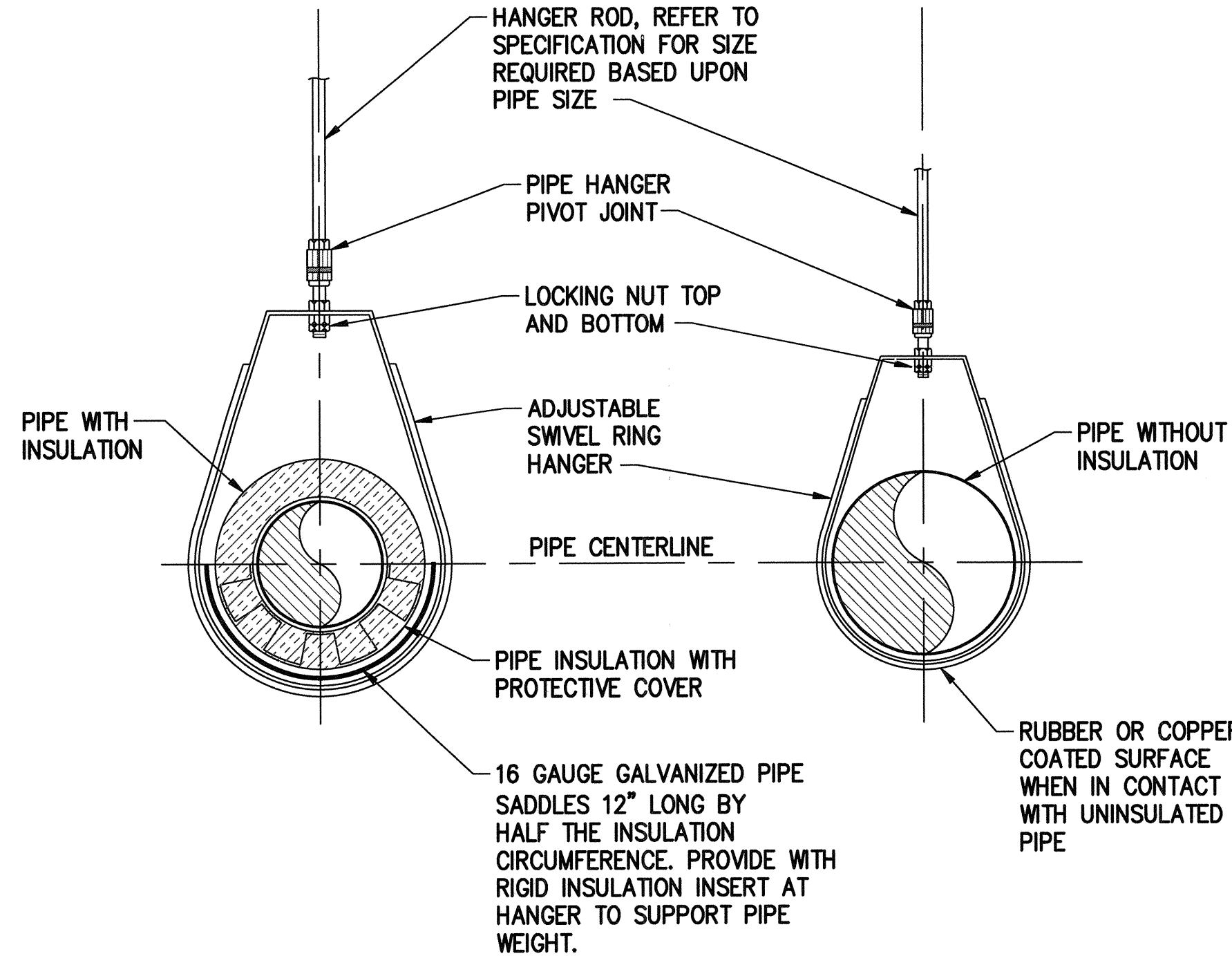


TO FIXTURES
OPTION D

WATER HAMMER ARRESTOR

NO SCALE

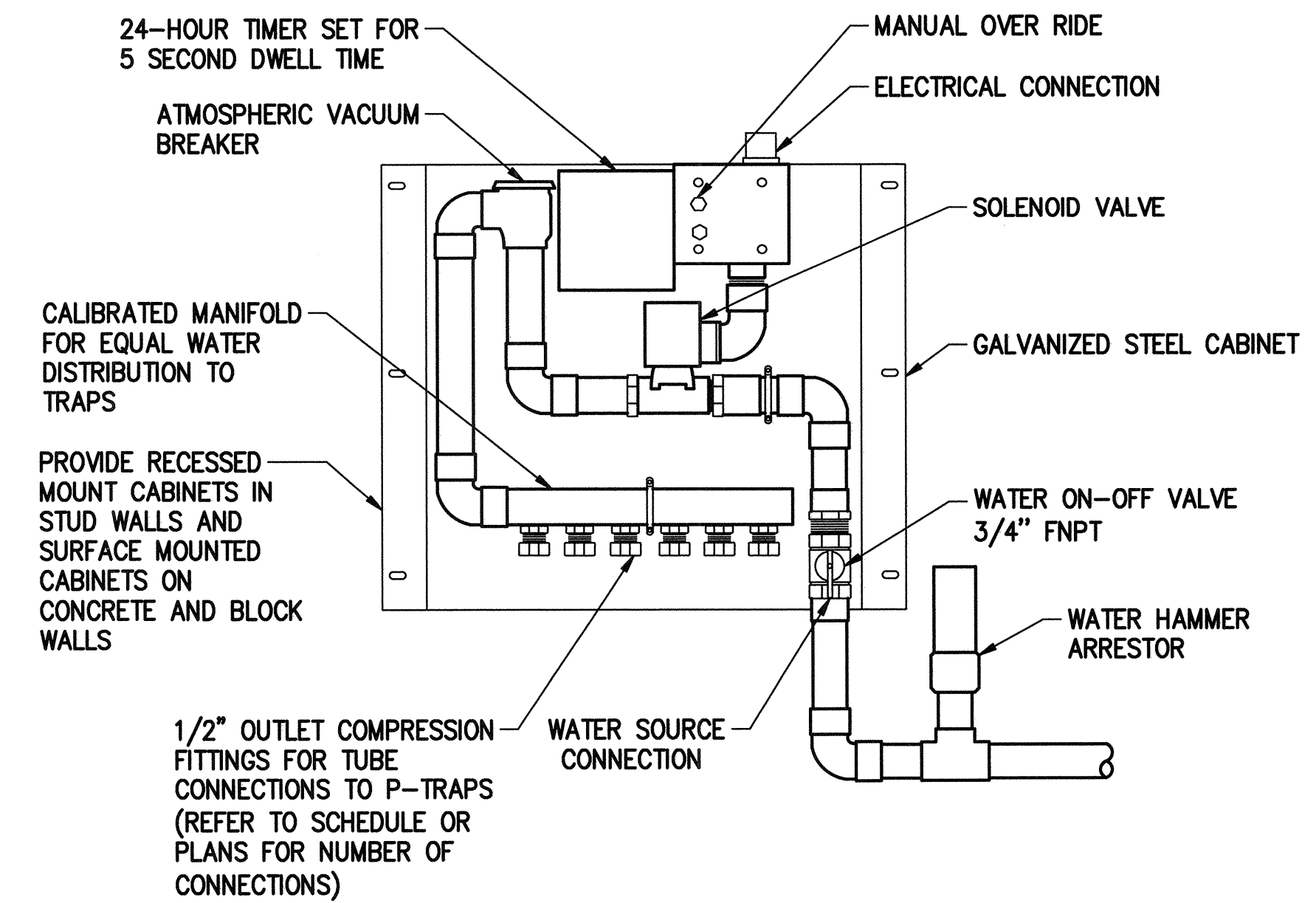
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P6.01



PIPE HANGER (4' AND BELOW)

NO SCALE

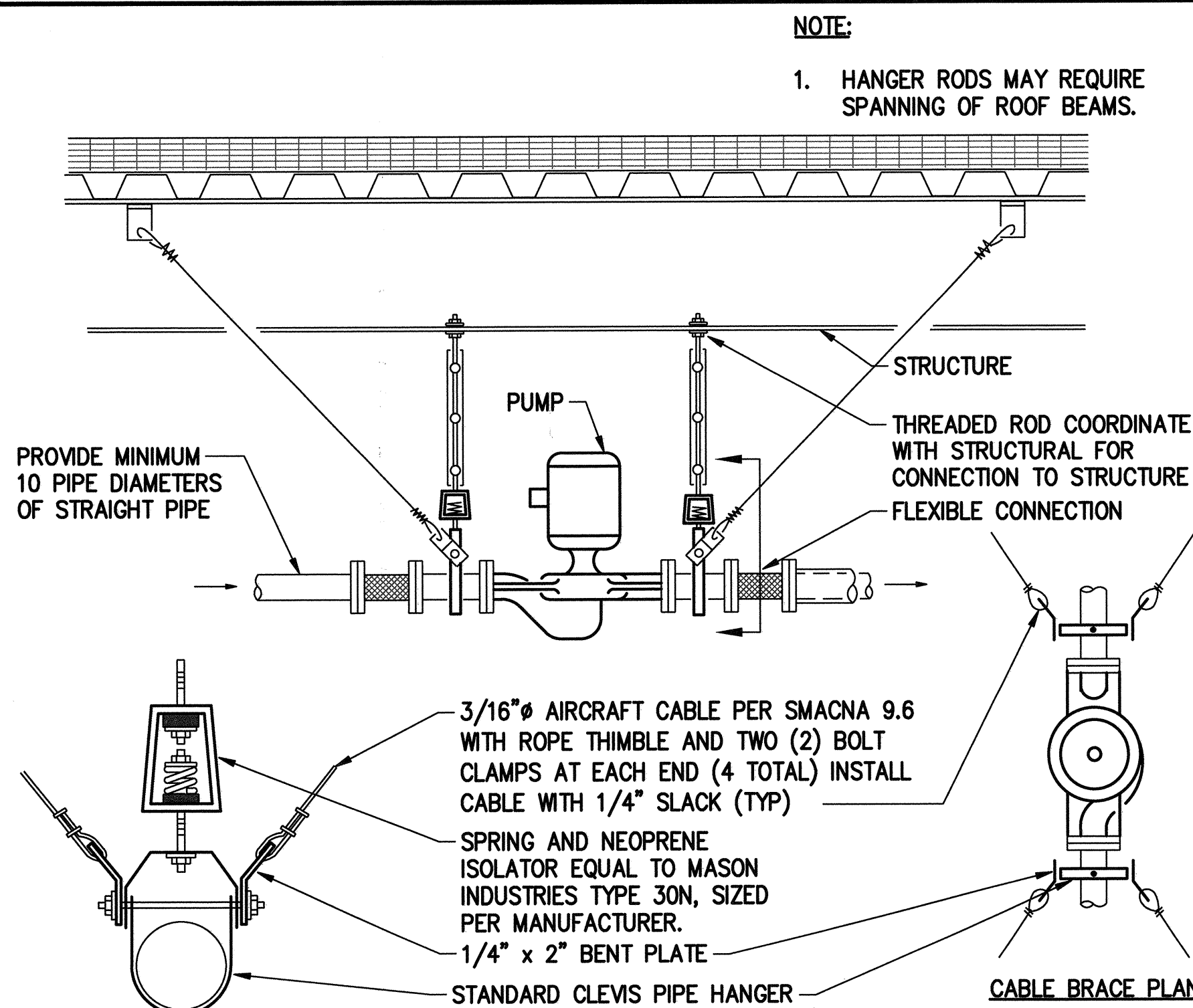
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P6.01



ELECTRIC TRAP PRIMER

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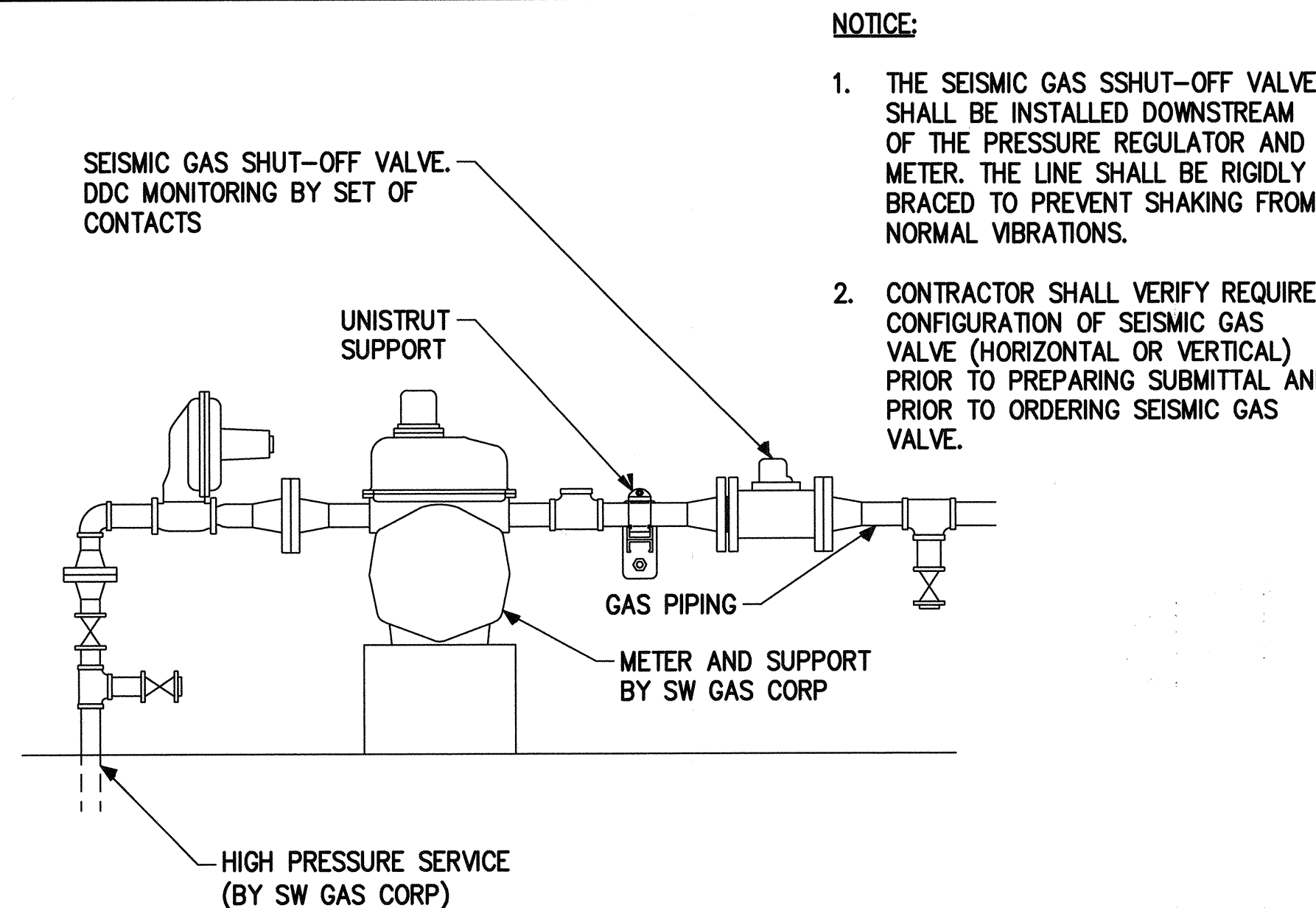
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P6.01



IN-LINE PUMP

NO SCALE

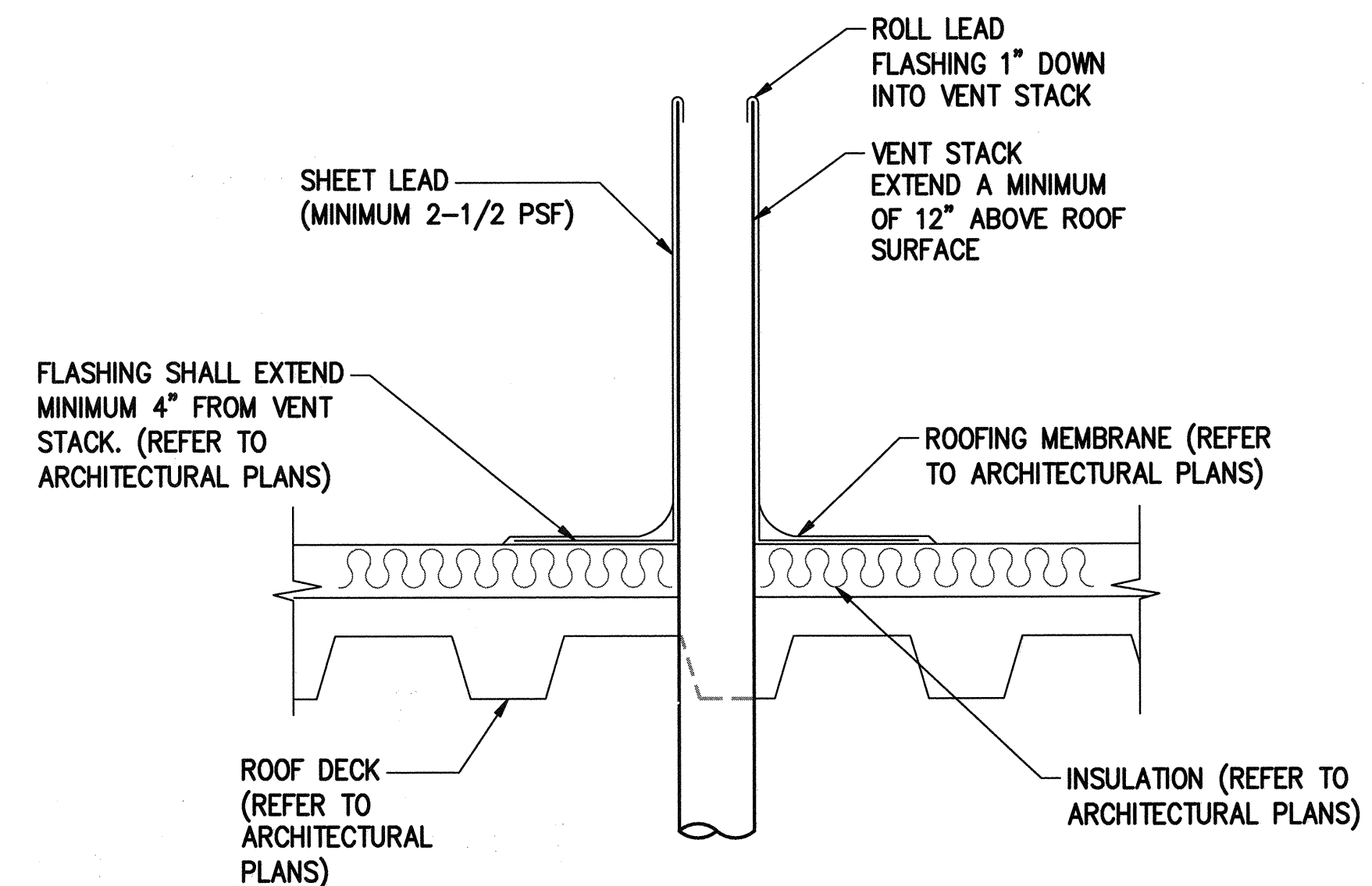
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P6.01



SEISMIC GAS SHUTOFF VALVE

NO SCALE

5
P6.01



VENT THROUGH ROOF

NO SCALE

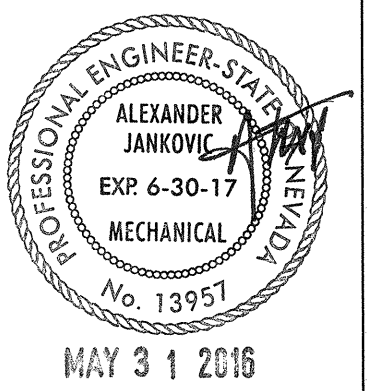
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P6.01

REVIEWED FOR CODE COMPLIANCE:
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REVISIONS

ARCHITECT



Charleston Heights Community Center
- Renovation -



OWNER: CITY OF LAS VEGAS
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333 NORTH RANCHO DRIVE
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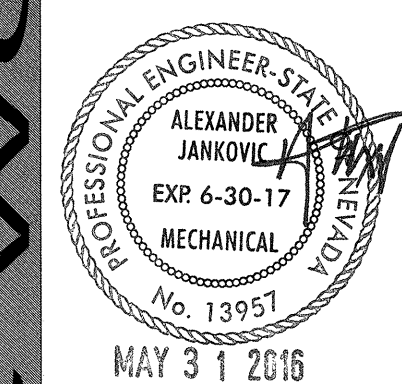
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SHT NO	

P6.01

#15.0821



1. INSTALL PER 2012 UPC, 1211.8
2. PURGE THE PIPING AND EQUIPMENT PER 2012 UPC, 1213.6.



Charleston Heights Community Center
- Renovation -

DESIGN DETAILS



JBA Las Vegas
5155 W Patrick Ln
Las Vegas, NV 89111

OWNER: CITY OF LAS VEGAS
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333 NORTH RANCHO DRIVE
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P6.02

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BUREAU VERITAS NORTH AMERICA, INC.

ELECTRICAL SYMBOL LEGEND		
(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)		
SYMBOL	DESCRIPTION	
	SHEET NOTE	
	REVISION NUMBER	
	FLUORESCENT FIXTURE	
	FLUORESCENT FIXTURE WITH (1) LAMP ON EMERGENCY	
	FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT OR INTEGRAL BATTERY BACK-UP	
	LETTER INDICATES LIGHT FIXTURE TYPE AS INDICATED ON FIXTURE SCHEDULE	
	FLUORESCENT FIXTURE	
	FLUORESCENT FIXTURE	
	FLUORESCENT FIXTURE	
	FLUORESCENT FIXTURE	
	EMERGENCY BATTERY LIGHTING UNIT WITH TWIN HEADS	
	WALL MOUNTED FIXTURE	
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED	
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED WALL MOUNTED	
	DOUBLE FACE EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED CEILING MOUNTED	
	SINGLE POLE SWITCH AT +48" UNLESS NOTED	
	DUAL SWITCH AT +48" UNLESS NOTED	
	3-WAY POLE SWITCH AT +48" UNLESS NOTED	
	4-WAY POLE SWITCH AT +48" UNLESS NOTED	
	DIMMER SWITCH - SOLID STATE TYPE AT +48" UNLESS NOTED	
	SWITCH WITH MOTION SENSOR	
	DUAL SWITCH WITH MOTION SENSOR	
	CEILING MOUNTED MOTION SENSOR	
	DAYLIGHT OR MOTION SENSOR (INDOORS)	
	DIMMING MODULE	
	SWITCHING MODULE	
	DUPLEX RECEPTACLE AT +18" UNLESS NOTED	
	GFCI RECEPTACLE AT +48" UNLESS NOTED	
	CEILING MOUNTED DUPLEX RECEPTACLE	
	JUNCTION BOX	
	NON-FUSED DISCONNECT SWITCH - 30A, 3P UNLESS NOTED OTHERWISE	
	FUSED DISCONNECT SWITCH - 30A, 3P WITH 30A FUSES UNLESS NOTED OTHERWISE	
	MAGNETIC MOTOR STARTER - FVNR, NEMA SIZE #1 (UNLESS NOTED OTHERWISE) WITH HOA, RED RUN PILOT LIGHT, CONTROL XFMR, SOLID STATE OVERLOADS, (2) NO AND (2) NC CONTACTS	
	COMBINATION FUSED SWITCH AND STARTER AS NOTED ABOVE	
	COMBINATION NON-FUSED SWITCH AND STARTER AS NOTED ABOVE	
	POWER SUPPLY	
	THERMOSTAT OUTLET AT +44" UNLESS NOTED	
	SURFACE MOUNTED PANELBOARD	
	FLUSH MOUNTED PANELBOARD	
	MAIN SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD	
	TRANSFORMER	
	HOMERUN CONDUIT - STROKES INDICATE QUANTITY OF CONDUCTORS	
	CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS	
	CONDUIT AND/OR WIRE BELOW FLOOR OR GRADE	
	EXISTING CONDUIT AND/OR WIRE TO BE REMOVED	
	EXISTING CONDUIT AND/OR WIRE TO REMAIN (SHOWN LIGHT LINEWEIGHT)	
	CONDUIT STUB-OUT	
	CONDUIT AND/OR WIRE RISER UP/RISER DOWN	
	1/2"-2 #12 & 1 #12 GRND THWN UNLESS NOTED	
	1/2"-3 #12 & 1 #12 GRND THWN UNLESS NOTED	
	1/2"-4 #12 & 1 #12 GRND THWN UNLESS NOTED	
	1/2"-5 #12 & 1 #12 GRND THWN UNLESS NOTED	
	3/4"-6 #10 & 1 #10 GRND THWN UNLESS NOTED	
	CIRCUIT BREAKER	
	FUSIBLE SWITCH	
	MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS	
	PLAN/RISER SHEET	
	PLAN SHEET	
	MECHANICAL EQUIPMENT TYPE	
	MECHANICAL EQUIPMENT NUMBER	
	E = EXISTING	

ELECTRICAL GENERAL NOTES	
1.	DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2.	REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED. PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN AND/OR RESTORE CONTINUITY OF SERVICE TO EXISTING CIRCUITS.
3.	CONTRACTOR SHALL PROVIDE ALL NECESSARY DEMOLITION TO REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, JUNCTION BOXES, RECEPTACLES, SWITCHES, LIGHTS, ETC COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE.
4.	SYSTEM OUTAGES SHALL BE PERMITTED ONLY AT TIMES APPROVED BY OWNER, IN WRITING. WORK WHICH COULD RESULT IN AN ACCIDENTAL OUTAGE (BEYOND BRANCH CIRCUITS) SHALL BE PERFORMED WITH THE OWNER'S MAINTENANCE PERSONNEL ADVISED OF SUCH WORK.
5.	PRIOR TO COMMENCEMENT OF ROUGH-IN WORK, COORDINATE WITH ARCHITECT, DRAWING NOTES, ELEVATIONS, SECTIONS, SPECIFICATIONS, FURNITURE, FIXTURES, AND EQUIPMENT FOR ALL RECEPTACLE AND COMMUNICATION DEVICE MOUNTING HEIGHT AND MOUNTING LOCATION.
6.	ALL 125V, SINGLE PHASE, 15 AND 20 AMP RECEPTACLE OUTLETS THAT ARE USED AS TEMPORARY POWER DURING CONSTRUCTION SHALL HAVE GFCI PROTECTION.
7.	PROVIDE EQUIPMENT BONDING JUMPER GROUND CONNECTION IN ALL BOXES, ENCLOSURES, ETC, FROM THE EQUIPMENT GROUNDING CONDUCTOR.
8.	ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A #12 PULLWIRE OR EQUAL AND SHALL BE IDENTIFIED AT ALL JUNCTIONS, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
9.	CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL LIGHT FIXTURES TO ENSURE THAT THE LIGHT FIXTURES DO NOT INTERFERE WITH ANY STRUCTURAL, MECHANICAL, OR PLUMBING COMPONENTS AND EQUIPMENT. COORDINATE RELOCATION OF ANY LIGHT FIXTURE DUE TO INTERFERENCES WITH STRUCTURAL, MECHANICAL, OR PLUMBING COMPONENTS AND EQUIPMENT.
10.	FIXTURES RECESSED IN "T-BAR" CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM, WITH TWO #12 HANGER WIRES UP TO STRUCTURE. SECURE HANGER WIRES TO OPPOSITE CORNERS OF FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY-FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE UL APPROVED ASSEMBLY.
11.	CONDUITS PENETRATING THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK TYPE COUNTER FLASHING SLEEVE. INSTALLATION SHALL BE WATERTIGHT. CONDUITS SHALL NOT BE RUN HORIZONTALLY ON THE ROOF. PENETRATIONS SHALL BE AT EQUIPMENT LOCATIONS ONLY AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT.
12.	FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE WITH FLEXIBLE METAL CONDUIT (INDOORS) OR LIQUIDTIGHT FLEXIBLE METAL CONDUIT (OUTDOORS) AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
13.	WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75°C.
14.	CONTRACTOR SHALL PROVIDE A VOLTAGE BARRIER IN BOXES CONTAINING MULTIPLE SWITCHES WITH A VOLTAGE POTENTIAL OF 300V OR GREATER.
15.	REFER TO MECHANICAL CONTROL DIAGRAMS FOR ADDITIONAL WIRING REQUIREMENTS. PROVIDE ALL RACEWAYS, WIRING, CONTROL SWITCHES, ETC AS REQUIRED.

SHEET INDEX									
ISSUE									
2016-05-02 ISSUED FOR PERMIT		SHEET NUMBER		SHEET DESCRIPTION					
		•	E0.00	COVER SHEET					
		•	E0.01	IECC AND FIXTURE SCHEDULES					
		•	ES1.10	SITE PLAN					
		•	ED1.10	DEMOLITION ELECTRICAL ROOF PLAN					
		•	ED2.10	DEMOLITION LIGHTING PLAN					
		•	ED3.10	DEMOLITION POWER PLAN					
		•	E1.10	ELECTRICAL ROOF PLAN					
		•	E2.10	LIGHTING PLAN					
		•	E2.11	LIGHTING PHOTOMETRIC PLAN					
		•	E3.10	POWER PLAN					
		•	E4.00	ENLARGED ELECTRICAL PLANS					
		•	E5.00	SINGLE LINE DIAGRAM					
		•	E7.00	PANEL SCHEDULES					

ELECTRICAL ABBREVIATION LIST		
(THIS IS A MASTER LIST, NOT ALL ABBREVIATIONS MAY APPEAR ON DRAWINGS.)		
+18"	MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR OR FINISH GRADE	
A	AMPERE	
AFF	ABOVE FINISH FLOOR	
AHJ	AUTHORITY HAVING JURISDICTION	
ATS	AUTOMATIC TRANSFER SWITCH	
DB	DISTRIBUTION BOARD	
E	EXISTING	
FLA	FULL LOAD AMPS	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
GRND	GROUND	
IBC	INTERNATIONAL BUILDING CODE	
KW	KILOWATT	
MAX	MAXIMUM	
MCA	MINIMUM CIRCUIT AMPS	
MTD	MOUNTED	
MTS	MANUAL TRANSFER SWITCH	
NA	NOT APPLICABLE	
NEC	NATIONAL ELECTRICAL CODE	
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	
NIC	NOT IN CONTRACT	
PH(Ø)	PHASE	
PNL	PANEL	
SNEC	SOUTHERN NEVADA ELECTRICAL CODE AMENDMENTS	
SWBD	SWITCHBOARD	
TYP	TYPICAL	
UL	UNDERWRITERS LABORATORIES	
V	VOLT	
VA	VOLT-AMP	
VAV	VARIABLE AIR VOLUME	
W	WATT	
WP	WEATHER-PROOF (NEMA 3R)	
XFMR	TRANSFORMER	

REVIEWED FOR CODE COMPLIANCE
JUN 28 2016 DK
BUREAU VERITAS NORTH AMERICA, INC.

REVISIONS

ARCHITECT

MAY 31 2016

Charleson Heights Community Center
- Renovation -

COVER SHEET

jba Las Vegas
5155 W Patrick Ln
Las Vegas, NV 89115
P 702.862.5200

OWNER: CITY OF LAS VEGAS
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DRAWN NLB

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DATE 05/02/2016

SCALE

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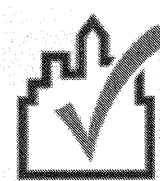
CLV DWG NO 620-10B

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SHT NO

E0.00

#15.0821



COMcheck Software Version 4.0.2.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: Charleston heights Community Center
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package

Unspecified

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Conference area (Common Space Types:Conference / Meeting / Multipurpose)	14114	1.19	16937
Total Allowed Watts =			16937

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Conference area (Common Space Types:Conference / Meeting / Multipurpose)				
LED 1: A: LED 2X4: LED Linear 33W:	1	128	45	5760
LED 2: B: LED 2X4: LED Linear 33W:	1	21	44	924
LED 3: C: LED 1X4: LED Linear 33W:	1	14	29	406
LED 4: D: LED DOWNLIGHT: LED PAR 20W:	1	9	24	216
Track lighting 1: H: LED TRACK HEAD: Wattage based on current limiting device capacity	0	0	800	800
Total Proposed Watts =			8106	

Interior Lighting PASSES: Design 52% better than code.

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.2.5 and to comply with the mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Charleston heights Community Center Report date: 04/29/16
Data filename: J:\15.0821\Docs\Design\E\Calcs\2016-04-29-IECC CALC.cck Page 1 of 6

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5.1 [F16]1	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C303.3.2 [F17]1	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.5.2 [F18]1	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	See the Interior Lighting fixture schedule for values.
C408.3 [F33]1	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C406 [F34]1	Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy consistent with what is shown the approved plans.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
Project Title: Charleston heights Community Center Report date: 04/29/16
Data filename: J:\15.0821\Docs\Design\E\Calcs\2016-04-29-IECC CALC.cck Page 5 of 6



COMcheck Software Version 4.0.2.5

Inspection Checklist

Energy Code: 2012 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C406 [PR9]1	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
Project Title: Charleston heights Community Center Report date: 04/29/16
Data filename: J:\15.0821\Docs\Design\E\Calcs\2016-04-29-IECC CALC.cck Page 2 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.1 [EL22]1	Automatic controls to shut off all building lighting installed in all buildings.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.1.1 [EL23]1	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.1.2 [EL15]1	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.2.3 [EL16]1	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.3 [EL17]1	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.2.2 [EL18]1	Occupancy sensors installed in required spaces.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.2.3 [EL20]1	Primary sidelighted areas are equipped with required lighting controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.2.3 [EL21]1	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.3 [EL4]1	Separate lighting control devices for specific uses installed per approved lighting plans.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.3 [EL19]1	Fluorescent luminaires with odd numbered lamp configurations that are within 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.4 [EL6]1	Exit signs do not exceed 5 watts per face.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	
C405.2.3 [EL8]1	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
Project Title: Charleston heights Community Center Report date: 04/29/16
Data filename: J:\15.0821\Docs\Design\E\Calcs\2016-04-29-IECC CALC.cck Page 3 of 6

FIXTURE SCHEDULE

FIXT. TYPE	MANUFACTURER		VOLT AMPS	MOUNTING	LAMP TYPE	REMARKS	VOLT
	NAME	CATALOG NUMBER					
A	METALUX	24CZ-LD4-50-UNV-L835-CD1	45	RECESSED	LED 5000 LUMENS 3500K	LED 2'X4' TROFFER SPECIFICATION GRADE TROFFER	120/277
B	METALUX	24GR-LD4-48-UNV-L835-CD1	44	RECESSED	LED 4800 LUMENS 3500K	LED 2'X4' TROFFER LENSED GRID	120/277
C	METALUX	48CLED-LD4-28SL-F-UNV-L835-CD1-U	29	SURFACE	LED 2800 LUMENS 3500K	LED 1X4 WALL MOUNTED	120/277
D	PORTFOLIO	LD6A-D010TE-ERM6A10-8-35-6LM-1-L1	24	RECESSED	LED 1500 LUMENS 3500K	6" LED DOWNLIGHT	120/277
E	SURE-LITES	CX6-1	5	SURFACE	FURNISHED WITH FIXTURE	DIE CAST SINGLE FACE LED EXIT SIGN ARROWS AND MOUNTING PER DRAWINGS	120/277
F	HALO	PD6-30-ED010-PDM6A-835	35	RECESSED	LED 3000 LUMENS 3500K	6" LED EXTERIOR DOWNLIGHT	120/277
G	CONTECH LIGHTING	LT-28-B	-	SURFACE	-	2 CIRCUIT TRACK 8' LENGTH	120
H	CONTECH LIGHTING	CTL-830-B-LF20	18	TO TRACK	①	LED TRACK HEAD WITH LED LAMP	120
H1	CONTECH LIGHTING	CTL-830-B-LF20	18	TO TRACK	②	LED TRACK HEAD WITH LED LAMP	120

NOTES

- ① PROVIDE AND INSTALL SORAA LED CAT. NO. SP30L-18-36D-827-03.
- ② PROVIDE AND INSTALL SORAA LED CAT. NO. SP30L-18-60D-827-03.

REVIEWED FOR CODE COMPLIANCE

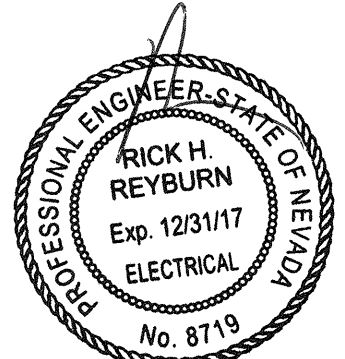
JUN 28 2016 DK

BUREAU VERITAS NORTH AMERICA, INC.



REVISIONS

ARCHITECT



MAY 31 2016

Charleston Heights Community Center

- Renovation -

IECC AND FIXTURE SCHEDULES



JBA Las Vegas
5155 W. Pecos Ln
Las Vegas, NV 89118
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OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS

333 NORTH RANCHO DRIVE
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PHONE: (702) 229-6535
FAX: (702) 384-4846
TDD: (702) 386-9108

DRAWN

NLB

FILE

DATE

05/02/2016

SCALE

SID NO

15.59806.JH

CLV DWG NO

620-10B

DANSEN NO

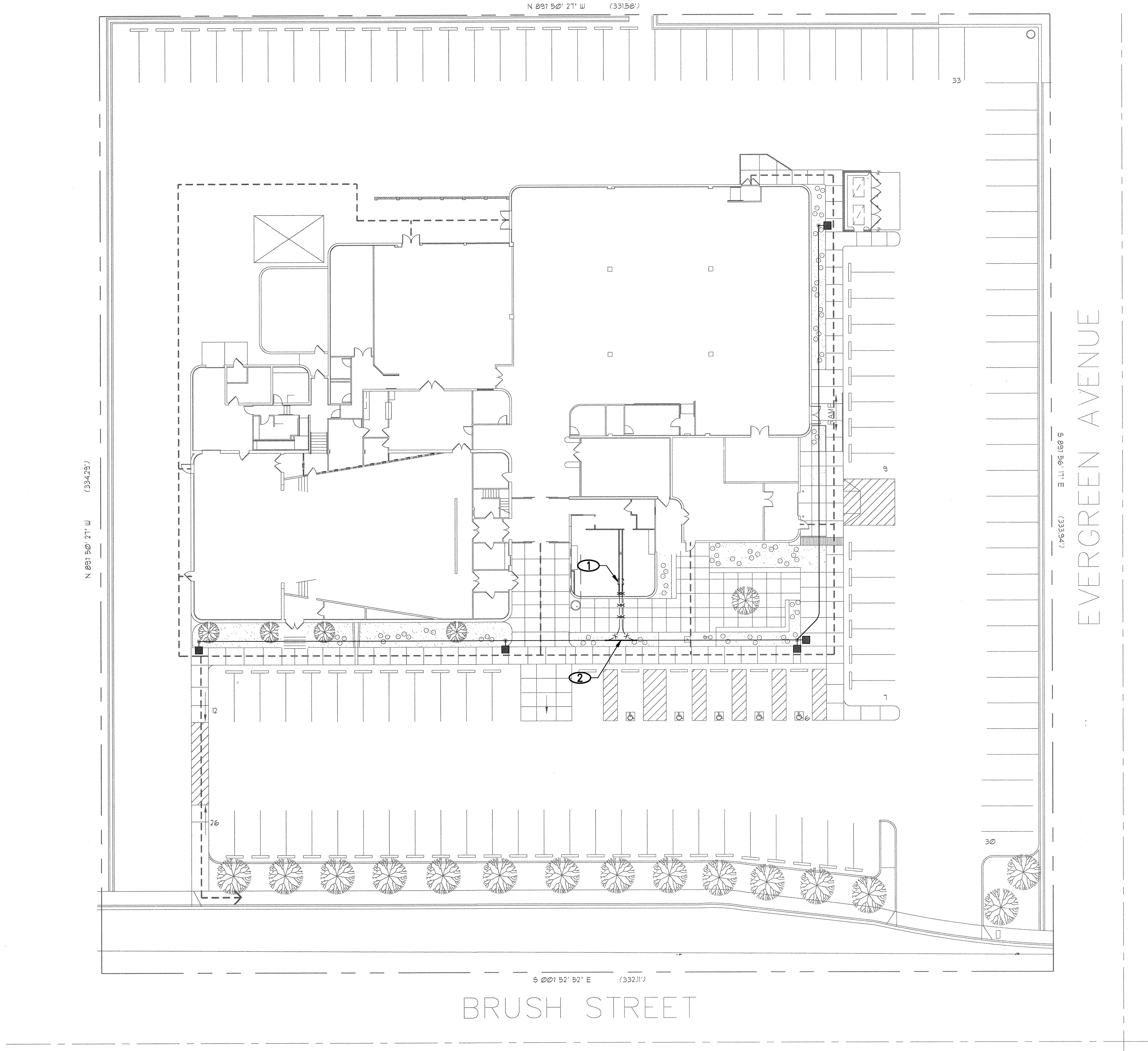
59806

SIT NO

E0.01

#15.0821

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SITE PLAN
1" = 20' 0"

A

NOTICE

1. EXISTING TO REMAIN SHOWN LIGHT, NEW SHOWN BOLD.

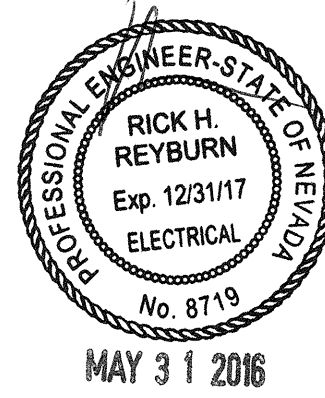
NOTES

- ① FIXTURE AND ASSOCIATED WIRING TO BE REMOVED.
- ② RECONNECT TO MAKE A COMPLETE AND OPERABLE CIRCUIT.

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ARCHITECT



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- Renovation -

SITE PLAN



JBA Las Vegas
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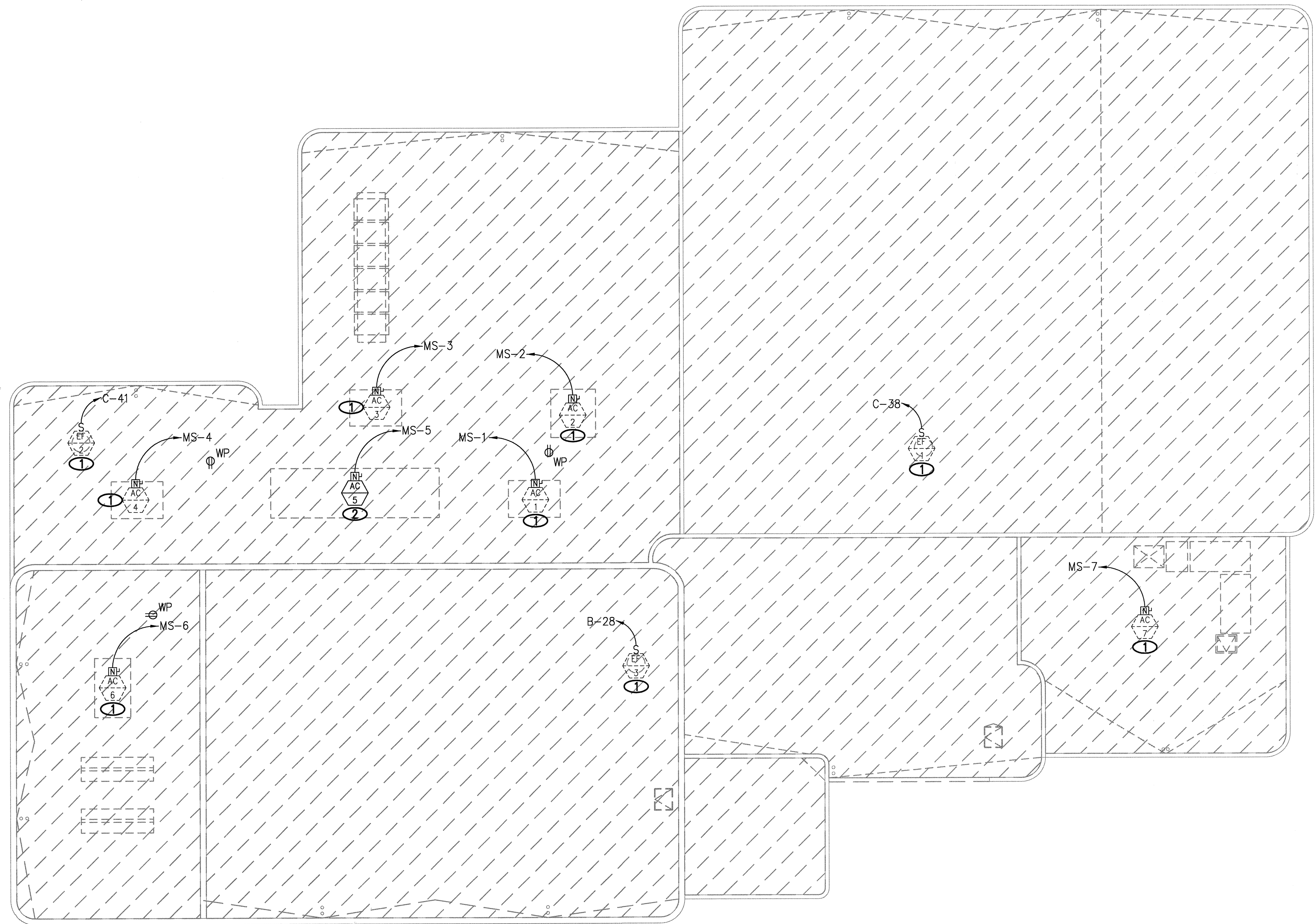
DRAWN NLB
FILE
DATE 05/02/2016
SCALE
BID NO 15.59806.JH
CLV DWG NO 620-10B
HANSER NO 59806
SHT NO

ES1.10

#15.0821

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DEMOLITION ELECTRICAL ROOF PLAN

3/32" = 1'-0" A

REVIEWED FOR CODE COMPLIANCE
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NOTICE

1. EXISTING TO REMAIN SHOWN LIGHT, EXISTING TO BE REMOVED SHOWN LIGHT AND DASHED.

NOTES

① DISCONNECT EXISTING HVAC EQUIPMENT FOR REMOVAL.

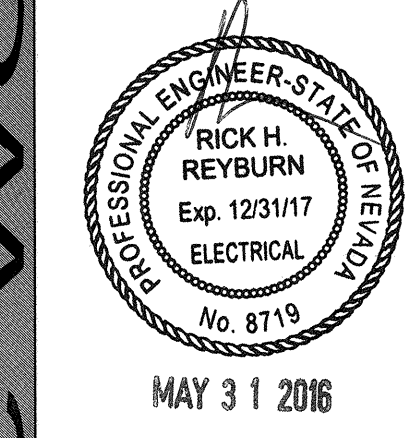
② EXISTING HVAC UNIT TO REMAIN.



REVISIONS

NO.	DESCRIPTION

ARCHITECT



Charleson Heights Community Center
- Renovation -

DEMOLITION ELECTRICAL ROOF PLAN



OWNER: CITY OF LAS VEGAS
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DATE	05/02/2016
SCALE	
BID NO	15.59806.JH
CLV DWG NO	620-10B
HANSEN NO	59806
SHT NO	ED1.10

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