

OC PLUMBING PROJECT

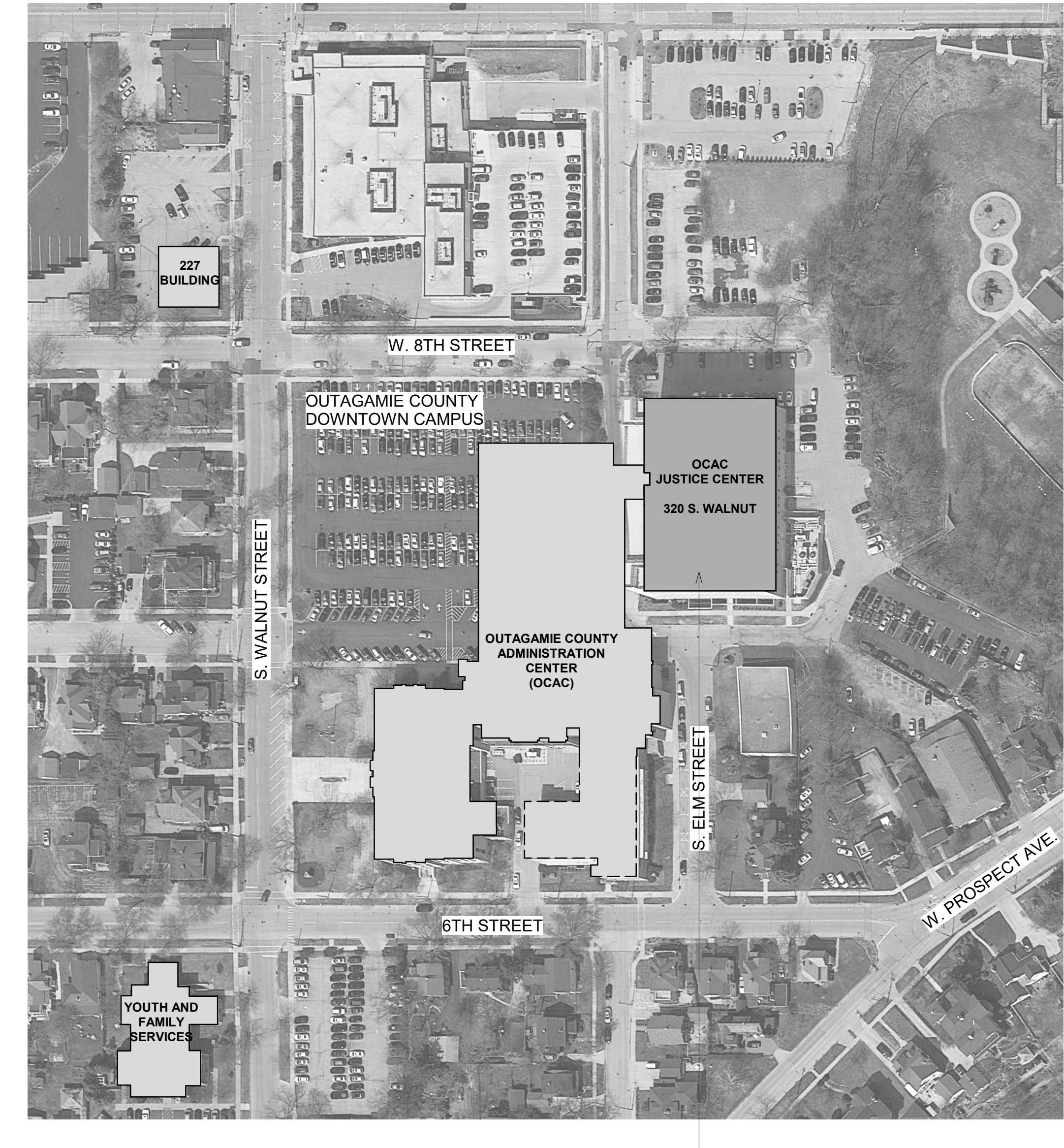
OUTAGAMIE COUNTY JUSTICE CENTER

S. WALNUT & W. 8TH, APPLETON, WI 54911

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION	PARTIAL ALTERATION APRIL 27, 2018
GENERAL		
A001	TITLE SHEET	X
PLUMBING		
P001	PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS	X
P002	SPECIFICATIONS	X
P100	GROUND FLOOR PLAN	X
P101	FIRST FLOOR PLAN	X

PROJECT LOCATION MAP



DESIGN TEAM

ARCHITECT

McMAHON
1445 McMAHON DRIVE
NEENAH, WI 54956
(920) 751-4200
PROJECT MANAGER: MARLEY GAST
EMAIL: MGast@mcmgrp.com

PLUMBING ENGINEER

McMAHON
1445 McMAHON DRIVE
NEENAH, WI 54956
(920) 751-4200
PROJECT MANAGER: MARK STOEGER
EMAIL: MStoeger@mcmgrp.com

GENERAL MECHANICAL SYMBOLS		GENERAL ABBREVIATIONS		PLUMBING GENERAL NOTES	
	REVISION NUMBER - SHOWN ON PLANS	&	AND	HTR	HEATER
	POINT WHERE NEW CONNECTS TO EXISTING	Ø	ROUND	HVAC	HEATING, VENTILATION & AIR
	KEYNOTE	AC	AIR CONDITIONING	HW	HOT WATER
	CONTINUATION SYMBOL	ADD	ADDITIONAL	IND	INJECT
	ROOM NAME AND NUMBER	ADDL	ADDITIONAL	IN	INCH
	ITEM TO BE ABANDONED	AFF	ABOVE FINISHED FLOOR	INL	INLET
	ITEM TO BE DEMOLISHED	AG	ABOVE GROUND	INSU	INSULATION
		ALT	ALTERNATIVE	INT	INTERIOR
		ALUM	ALUMINUM	JT	JOINT
		AP	ACCESS PANEL	LB	POUND
		APPROX	APPROXIMATE	LB/HR	POUNDS PER HOUR
		ARCH	ARCHITECTURAL	LF	LINEAR FOOT
		AUTO	AUTOMATIC	LOC	LOCATION
		BFF	BELLOW FINISHED FLOOR	LP	LOW PRESSURE
		BLDG	BUILDING	LPG	LIQUEFIED PETROLEUM GAS
		BO	BY OTHER	MAN	MANUAL
		BOT	BOTTOM	MATL	MATERIAL
		BSMT	BASEMENT	MAX	MAXIMUM
		BTU	BRITISH THERMAL UNITS	MECH	MECHANICAL
		BTUH	BRITISH THERMAL UNITS PER HOUR	MFR	MANUFACTURER
		CAP	CAPACITY	MIN	MINIMUM
		CFM	CUBIC FEET PER MINUTE	MISC	MISCELLANEOUS
		CI	CAST IRON	MTR	MOTOR
		CLG	CEILING	NC	NORMALLY CLOSED
		CO	CLOSED	NO	NOT
		COMB	COMBINATION	NTS	NOT TO SCALE
		CONC	CONCRETE	OC	ON CENTER
		CTR	CENTER	OPNG	OPENING
		CUTT	CUTTING FEET	PD	PPIPE DRAPE DROP
		DTL	DETAIL	PREL	PRELIMINARY
		DIA	DIAmeter	PRESS	PRESSURE
		DIAG	DIAGONAL	PRV	PRESSURE REDUCING VALVE
		DISCH	DRAINAGE	PSI	POUNDS PER SQUARE INCH
		DN	DOWN	PSIG	POUNDS PER SQUARE INCH GAUGE
		DFU	DRAINAGE FIXTURE UNITS	PWR	POWER
		DWG	DRAWING	RED	REDUCER
		ELEC	ELECTRICAL	REQ	REQUIRED
		ELEV	ELEVATION	RPM	ROOM
		EQ	EQUAL	RPM	REVOLUTIONS PER MINUTE
		EQUIP	EQUIPMENT	SF	SQUARE FOOT
		EXTG	EXTENSION	SCHED	SCHEDULE
		EXPT	EXPANSION JOINT	SECT	SECTION
		°F	DEGREES FAHRENHEIT	SHT	SHEET
		FD	FLOOR DRAIN	SIM	SIMILAR
		FL	FLOOR	SPEC	SPECIFICATION
		FLG	FLANGE	SQ	SQUARE
		FT	FOOT/FEET	SR	SUCTION REFRIGERANT
		FUT	FUTURE	STS	STAINLESS STEEL
		GAL	GALLOL	STD	STANDARD
		GALV	Galvanized	STM	STEAM
		GC	GENERAL CONTRACTOR	TOG	TOP OF GRATE
		GPM	GALLONS PER MINUTE	TP	TOPICAL
		HD	HD	UG	UNDERGROUND
		HORZ	HORIZONTAL	VEL	VELOCITY
		HP	HORSE POWER	VERT	VERTICAL
		HTG	HEATING	VOL	VOLUME
				WFU	WATER FIXTURE UNITS
EQUIPMENT ABBREVIATIONS					
CB	CATCH BASIN	LAV	LAVATORY		
CO	CLEANOUT	MH	MANHOLE		
CHS	COLD WATER HOSE STATION	ORD	OVERFLOW ROOF DRAIN		
ES	EMERGENCY SHOWER/EYE WASH	RD	ROOF DRAIN		
EW	EYES/EYES/EYE WASH	RPBP	REMOVED PRESSURE BACKFLOW		
FCO	FLOOR CLEANOUT	SP	SIGHT PLATE		
FD	FLOOR DRAIN	S	SINK		
FF	FOOT FOAMER	SHS	SANITARY HOSE STATION		
HD	HOT DRAIN	UR	URINAL		
HS	HOT WATER HOSE STATION	WC	WATER CLOSET		
HWS	HAND WASH SINK	WCO	WALL CLEANOUT		
INV	INVERT ELEVATION	WH	WALL HYDRANT		
		YCO	YARD CLEANOUT		
VALVE SYMBOLS					
	ISOLATION VALVE		BUTTERFLY VALVE		
	CHECK VALVE		BALANCING VALVE		
	WYE STRAINER (W/ VALVE & HOSE CONNECTION)		PRESSURE REGULATING VALVE		
	FLEXIBLE CONNECTION		PLUG VALVE		
	ANGLE GLOBE VALVE		PRESSURE REDUCING VALVE (PRV)		
NOTE: ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.					

OC PLUMBING PROJECT:
OUTAGAMIE COUNTY JUSTICE CENTER
S. WALNUT & W. 8TH, APPLETON, WI 54911
PLUMBING GENERAL NOTES, SYMBOLS & ABBREVIATIONS

McMAHON
ENGINEERS ARCHITECTS
4460 PINEWOOD DR., SUITE 100
MAILING ADDRESS: 4460 PINEWOOD DR., SUITE 100, OSHKOSH, WI 54905
TELEPHONE: (920) 751-4220 FAX: (920) 751-4224
www.mcmgpc.com

DESIGNED
MLS
DRAWN
BLO
PROJECT NO.
00002-61800117
DATE
APRIL 27, 2018
SHEET NO.
P001

GENERAL BUILDING SPECIFICATIONS

DIVISION 01 GENERAL REQUIREMENTS

01 11 00 SUMMARY OF WORK
 A. THE PLANS AND SPECIFICATIONS ARE INTENDED TO GIVE A DESCRIPTION OF THE WORK. NO DEVIATION FROM THE PLANS AND SPECIFICATIONS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF McMAHON ASSOCIATES, INC. THE CONTRACTOR IS TO CLARIFY ANY DISCREPANCIES WITH McMAHON ASSOCIATES, INC. PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS AND ACCESS TO THE WORK AREA.

REFERENCE TO GENERAL CONTRACTOR OR "G.C." IN THE CONSTRUCTION DOCUMENTS IS A REFERENCE TO THE CONTRACTOR RESPONSIBLE FOR OVERALL DESIGN, CONSTRUCTION AND COORDINATION OF THE WORK. THE "G.C." COULD BE A GENERAL CONTRACTOR, CONSTRUCTION MANAGER, OR ANY OTHER CONTRACTOR RESPONSIBLE FOR THE OVERALL PROJECT. IT IS THE RESPONSIBILITY OF THE G.C. TO ASSIGN RESPONSIBILITY FOR ALL WORK.

01 31 00 PROJECT MANAGEMENT AND COORDINATION

A. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR AND SHALL HAVE CONTROL OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND SAFETY PRECAUTIONS AND PROCEDURES USED TO CONSTRUCT THE WORK.
 B. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT AS NECESSARY TO COMPLETE THE WORK. PERMITS SHALL BE OBTAINED AND PAID FOR BY THE RESPECTIVE CONTRACTOR, INCLUDING TEMPORARY OCCUPANCY PERMIT IF REQUIRED.
 C. AUTOCAD FILES OF CONSTRUCTION DOCUMENTS MAY BE OBTAINED BY CONTACTING McMAHON ASSOCIATES, INC. REVIT FILES WILL NOT BE MADE AVAILABLE. AUTOCAD FILE REQUESTS WILL BE ENROUTE TO McMAHON PROJECT MANAGER AND PROJECT ASSISTANT AND SHOULD INCLUDE THE FOLLOWING INFORMATION:
 1. McMAHON PROJECT NAME
 2. McMAHON PROJECT NUMBER
 3. SHEET NUMBERS REQUESTED
 D. AUTOCAD FILE REQUEST SHALL BE MADE TO:
 1. PROJECT MANAGER: MARLEY GAST, EMAIL: MGast@mcmgrp.com
 2. PROJECT ASSISTANT: BURT GREUEL, EMAIL: BGreuel@mcmgrp.com
 E. AUTOCAD FILES WILL BE SENT BY METHOD OF McMAHON ASSOCIATES, INC. CHOOSING AS SOON AS POSSIBLE.
 F. AUTOCAD FILES SHALL NOT BE USED FOR COMPONENT SUBMITTALS OR SHOP DRAWINGS. SUBMITTALS AND SHOP DRAWINGS, USING McMAHON ASSOCIATES, INC. CAD FILES WILL BE RETURNED REJECTED AND UN-REVIEWED.
 G. ALL "REQUEST FOR INFORMATION" (RFI) SHALL BE MADE THROUGH THE GENERAL CONTRACTOR FOR LOGGING AND TRACKING PURPOSES. RFIs SHALL BE SUBMITTED ON AN ARCHITECT APPROVED FORM, NUMBER SEQUENCE AND INCLUDE THE FOLLOWING INFORMATION:
 1. PROJECT NUMBER
 2. McMAHON PROJECT NUMBER
 3. DIVISION OF CONSTRUCTION REFERENCED
 4. POTENTIAL SCHEDULE IMPACTS
 5. POTENTIAL COST IMPACTS OF ANY SUGGESTED ALTERNATES FROM THE CONSTRUCTION DOCUMENTS

01 32 00 SCHEDULING OF WORK

A. THE CONTRACTOR SHALL OBTAIN THE OWNER'S APPROVAL OF THE CONSTRUCTION SCHEDULE PRIOR TO PROCEEDING WITH THE WORK.
 B. THE CONTRACTOR SHALL WORK WITH THE OWNER TO COORDINATE THE FINAL CONNECTION AND / OR ANY OTHER WORK THAT WILL IMPACT AREAS OF THE BUILDING OUTSIDE OF THE PROJECT WORK AREA.
 C. **01 33 23 SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES**
 A. SUBMITTAL FOR APPROVAL ARCHITECTURAL, CIVIL, STRUCTURAL, HVAC, PLUMBING, FIRE PROTECTION, AND ELECTRICAL SHOP DRAWINGS, PRODUCT DATA, TEST RESULTS, AND SAMPLES.
 B. SHOP DRAWING SUBMITTALS SHALL BE MADE TO McMAHON ASSOCIATES, INC. FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
 C. SUBMITTALS SHALL BE MADE BY ELECTRONIC SUBMISSION IN PORTABLE DOCUMENT FORMAT (PDF) UNLESS NOTED OTHERWISE. WHEN HARD COPY SUBMISSIONS ARE REQUIRED, COORDINATE WITH McMAHON ASSOCIATES, INC. PRIOR TO SUBMISSION.
 D. SUBMITTALS SHALL BE MADE TO THE FOLLOWING INDIVIDUALS AT McMAHON ASSOCIATES, INC.:
 1. PROJECT MANAGER: MARLEY GAST, EMAIL: MGast@mcmgrp.com
 2. PROJECT ADMIN: LAURA MIELKE, EMAIL: LMielke@mcmgrp.com
 E. SUBMITTAL SHALL BE MADE USING APPROVED SUBMITTAL FORM CONTAINING AT MINIMUM THE FOLLOWING INFORMATION:
 1. SUBMITTAL NUMBER
 2. McMAHON PROJECT NUMBER
 3. SUBMITTAL DIVISION OF CONSTRUCTION
 4. MATERIAL SUPPLIER / SUB CONTRACTOR
 5. SUBMITTAL DESCRIPTION (i.e. CONCRETE MIX DESIGN)
 F. SUBMITTALS SHALL BE REVIEWED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMITTING FOR APPROVAL. CONTRACTORS SHALL COMPLETE ALL FIELD VERIFICATIONS PRIOR TO SUBMITTAL SUBMISSION.
 G. SUBMITTALS MUST BE 100% COMPLETE AND IN ONE (1) PACKAGE FOR THE ITEM BEING SUBMITTED. NON-COMPLETE SUBMITTALS WILL BE RETURNED TO THE CONTRACTOR WITH A LIST OF THE ITEMS NOT SUBMITTED. CONTRACTORS WHO DO NOT KNOWINGLY WANT TO SUBMIT NON-COMPLETE SUBMITTALS OR BREAK SINGLE SYSTEM SUBMITTALS INTO MULTIPLE SUBMITTALS WILL BE RESPONSIBLE TO ARRANGE WITH McMAHON ASSOCIATES, INC. PRIOR TO SUBMITTING THE SUBMITTAL(S) AND TO COMPENSATE McMAHON ASSOCIATES, INC. FOR THE EXTRA WORK INVOLVED.
 H. SHOP DRAWINGS SHALL CLEARLY INDICATE SPECIFIC MODEL BEING PROVIDED WHERE CUT SHEETS SHOW MULTIPLE MODELS.
 I. FAILURE TO SUBMIT SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE SPECIFIC EQUIPMENT AND MATERIALS.
 J. PHYSICAL SAMPLES FOR FINISHES ARE TO BE SUBMITTED TO McMAHON ASSOCIATES, INC. FOR APPROVAL PRIOR TO INSTALLATION.
 K. BUILDING COMPONENTS REQUIRING SUBMISSION "FOR RECORD" TO THE AUTHORITY HAVING JURISDICTION NEED TO BE SEALED AND FORWARDED COPIES, PROVIDE THREE (3) HARD COPIES WITH WET SEAL AND ORIGINAL SIGNATURE.
 L. TEST RESULTS SHALL BE SUBMITTED FOR REVIEW WITHIN 24 HOURS OF COMPLETION OF TEST.
 M. CONTRACTOR SHALL ALLOW 10 WORKING DAYS IN SCHEDULE FOR A/E TO REVIEW SUBMITTALS. IF SUBMITTALS REQUIRE AN EXPEDITED REVIEW PROCESS, CONTACT McMAHON ASSOCIATES, INC. PRIOR TO SUBMITTING THE SUBMITTAL(S) TO MAKE APPROPRIATE ARRANGEMENT.
 N. SUBMITTALS REQUIRING RESUBMISSION SHALL HAVE CHANGES MADE TO A PREVIOUSLY REVIEWED SUBMITTAL DENOTED WITH REVISION CLOUDS AND TAGS IDENTIFYING CHANGES.
 O. STRUCTURAL AND ARCHITECTURAL PLANS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORK POINTS. CONTRACTORS, DETAILERS AND SUPPLIERS ARE RESPONSIBLE FOR THE DETERMINATION OF ALL DESIGN PITCHES, ELEVATIONS, ETC., BEYOND THOSE NOTED AS NECESSARY TO THOROUGHLY DETAIL / FABRICATE THEIR WORK. CONTACT A/E WITH ANY DISCREPANCIES FOUND.
 P. IN NO CASE SHALL CHANGES BE MADE TO WORK SHOWN OR PROCEDURE SPECIFIED ON THE STRUCTURAL PLANS UNLESS FIRST APPROVED IN WRITING BY A/E. REVIEW OF SHOP DRAWINGS BY A/E DOES NOT CONSTITUTE ACCEPTANCE OF A DESIGN CHANGE. PROPOSED CHANGES BY CONTRACTOR MUST BE SUBMITTED IN RFI FORMAT AND MUST BE APPROVED BY A/E. CHANGES IN CONTRACTOR'S DESIGNING WORK MAY BE BILLED ON A TIME AND EXPENSE BASIS BY A/E FOR ALL REDESIGN WORK, FOR ALL NEW SKETCHES PREPARED, AND FOR ALL ADDITIONAL REVIEW TIME RELATED TO THE CHANGES.

PLUMBING SPECIFICATIONS

DIVISION 22 PLUMBING

22 05 00 BASIC PLUMBING REQUIREMENTS

A. DETAILS AND SCHEDULES ARE SHOWN TO AID THE CONTRACTOR AND ARE NOT MEANT TO BE INCLUSIVE OF ALL DEVICES. PROVIDE REQUIRED EQUIPMENT AND ACCESSORIES FOR A COMPLETE INSTALLATION.
 B. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS. PROVIDE ADDITIONAL WORK AND MATERIALS AS REQUIRED.

C. REGULATORY REQUIREMENTS:

1. PERFORM WORK PER ALL LOCAL AND STATE CODES, ORDINANCES, AND REGULATIONS.
 2. PERFORM WORK PER STATE OF WISCONSIN CHAPTER SP5 382 "DESIGN, CONSTRUCTION, INSTALLATION, SUPERVISION, AND INSPECTION OF PLUMBING" AND "STANDARD SPECIFICATION FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN".
 D. COORDINATE INSTALLATION OF PLUMBING WORK WITH THE OTHER CONTRACTORS TO AVOID CONFLICTS WITH OTHER WORK.

E. CUTTING AND PATCHING:

1. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR PLUMBING WORK INSTALLATION UNLESS THIS WORK IS IDENTIFIED TO BE THE WORK OF OTHER CONTRACTORS.

F. FIRE RATED INTERIOR WALL AND FLOOR PIPE PENETRATIONS:

1. SLEEVE REQUIRED FOR PENETRATION OF CONCRETE AND MASONRY WALLS AND FLOORS.
 2. SEAL CUTTING AROUND PIPE WITH A UL APPROVED FIRE-STOP SYSTEM HAVING AN F-RATING NOT LESS THAN THE HOURLY RATING OF THE ASSEMBLY BEING PENETRATED.
 3. WHERE A SLEEVE IS REQUIRED, FURNISH AND INSTALL SLEEVES FOR NEW DRYWALL WALLS, AND CONCRETE WALLS AND FLOORS. FURNISH SLEEVES TO THE MASON CONTRACTOR FOR INSTALLATION IN NEW MASONRY WALLS.

G. SEALANTS:

1. PLUMBING CONTRACTOR SHALL PROVIDE ALL SEALANTS WHERE JOINT IS HIDDEN AND WHERE JOINT IS EXPOSED IN MECHANICAL ROOM.
 2. PLUMBING CONTRACTOR SHALL PROVIDE SEALANTS AT ALL LOCATIONS INCLUDING ALL THRU WALL PENETRATIONS.

H. ESCUTCHEONS:

1. INSTALL ONE-PIECE (TWO-PIECE FOR EXISTING PIPE) POLISHED CHROME PLATED STEEL ESCUTCHEONS AT PENETRATIONS EXPOSED IN FINISHED ROOMS (ROOMS WHICH DON'T HAVE UNFINISHED CONCRETE FLOORS).
 2. ESCUTCHEONS WITH SPRINGS FOR WALL AND CEILING LOCATIONS.
 3. TO BE TIDILY FIT AROUND PIPE / INSULATION, OR THAT COMPLETELY COVERS THE OPENING.
 4. ESCUTCHEONS REQUIRED IN CABINETS AND CASEWORK.

I. PROJECT COMPLETION:

1. CLEAN FIXTURES AND EQUIPMENT, AND LEAVE IN PROPER WORKING CONDITION AT THE TIME OF FINAL CLEAN-UP.
 2. REMOVE, CLEAN, AND REPAIR ALL AERATORS AFTER FLUSHING WATER PIPING.
 3. PROVIDE OPERATING INSTRUCTIONS FOR A TOTAL OF ONE HALF (0.5) HOURS. MAINTAIN A RECORD OF OPERATING INSTRUCTION PERIODS AND OBTAIN OWNER SIGNOFF THAT INSTRUCTIONS HAVE BEEN COMPLETED.
 4. PROVIDE PLUMBING EQUIPMENT OPERATING AND MAINTENANCE MANUALS TO THE OWNER.
 5. OWNERSHIP OF MC 361-013(3)

AS-BUILT DRAWINGS SHALL BE MARKED ON A FINAL SET OF DRAWINGS WHICH INCLUDES ALL REVISIONS.

22 05 29 PIPE AND EQUIPMENT HANGERS AND SUPPORTS

A. MANUFACTURERS: B-LINE, EMPIRE INDUSTRIES, GLOBAL PIPE HANGER PRODUCTS, GRINEL, NATIONAL PIPE HANGER, UNI STRUT.

B. ANGLES, CHANNELS, AND BEAMS: ASTM A36 AND A572 AS REQUIRED.

C. HANGERS SHALL NOT BE ATTACHED TO JOIST BRIDGING.

D. ATTACHMENT TO METAL DECK: HANGERS MAY BE ANCHORED TO METAL FLOOR / ROOF DECK. DETAILS FOLLOWING CONDITIONS ARE MET:

1. MAXIMUM HANGER LOAD OF 50 LBS.
 2. ANCHORED TO BOTTOM OF DECK FLUTTER, NOT UPPER FLUTE.
 3. ANCHOR LENGTH SHALL EXCEED DECK DEPTH.

E. PIPE HANGERS / SUPPORTS:

1. SEE DETAILS ON PLANS FOR ADDITIONAL PIPE HANGER SPECIFICATIONS.
 2. HANGERS FOR PLASTIC PIPE SHALL BE 4"-0" ON CENTER FOR HORIZONTAL PVC AND CPVC PIPE, 10'-0" ON CENTER FOR VERTICAL PVC PIPE, & 6"-0" ON CENTER FOR CPVC PIPE.

3. CONFORM TO ASME B31.3 AND MANUFACTURER'S STANDARIZATION SOCIETY (MSS) SP-58-2009.

4. MATERIAL: W. CARLSON STEEL CLOVIS HANGER, COOPER BLINE B3100.

5. INCLINE HANGERS AND SUPPORTS SO PIPING LIVES AND DEAD LOADS AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT. ADJUST HANGERS TO DISTRIBUTE LOADS EQUALLY ON ATTACHMENTS AND TO PROVIDE INDICATED PIPE SLOPES.

F. STRUT SYSTEM:

1. COMPLY WITH THE LATEST REVISION OF MFMA STANDARDS PUBLICATION NUMBER MFMA-3, "METAL FORMING STANDARDS PUBLICATION".

2. INSTALL IN ACCORDANCE WITH MFMA-3 "GUIDELINES FOR THE USE OF METAL FRAMING" IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS, AND WITH RECOGNIZED INDUSTRY PRACTICES.

3. COLD FORMED LOW CARBON STEEL METAL FRAMING CHANNEL STRUCT: B-LINE TYPE B CHANNEL.

4. MANUFACTURER'S STANDARD FINISH OR PLAIN FINISH.

5. 1-5/8 INCHES WIDE IN VARYING HEIGHTS AND WELDED COMBINATIONS AS REQUIRED TO MEET LOAD CAPACITIES.

22 07 00 INSULATION

A. GENERAL:

1. SEE INSULATION SCHEDULES ON PLANS FOR ADDITIONAL INFORMATION.
 2. INSULATION SHALL BE APPLIED IN SHEETS AND LAYERED ACCORDING TO ASTM E84 REQUIREMENTS OF MAX. FIRE HAZARD CLASSIFICATION OF 25 OR MAX. FLAME SPREAD, FUEL CONTRIBUTED, AND SMOKE DEVELOPED OF 50 WHEN INSTALLED OVER PVC PIPE AND FITTINGS IN RETURN AIR PLENUMS.

3. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND MFMA PUBLICATION "COMMERCIAL AND INDUSTRIAL STANDARDS", 2011 SEVENTH EDITION.

4. CONTINUE INSULATION WITHOUT INTERRUPTIONS THROUGH WALLS AND FLOOR PENETRATIONS AND HANGERS.

5. CONTRACTOR SHALL PROVIDE MANUFACTURER CERTIFICATION OF MEETING THE FIRE CLASSIFICATION OF 25 AND SMOKE DEVELOPED OF 50 WHEN INSTALLED OVER PVC PIPE AND FITTINGS.

B. FIBERGLASS (T-G) INSULATION:

1. RIGID PIPE INSULATION:

a. JOHNS MANVILLE MICRO-LOK HP, FIBERGLASS PIPE INSULATION, 1 INCH THICKNESS.

b. SMC-20 DOUBLE ADHESIVE SELF-SEALING LAP SYSTEM FOR LONGITUDINAL JOINT, PRESSURE SENSITIVE BUTT STRIPS, ALL SERVICE JACKET VAPOR BARRIER COVERING.

c. 3.5 - 5.5 LB / CU. FT., R = 4.3 / NOMINAL INCH AT 75 DEG. F.

d. MAX. 850 DEG. F. JACKET MAX. 150 DEG. F. 0.02 PERM.

e. COMPRESSIVE STRENGTH AT 10% DEFORMATION 125 LB. / S.F.

22 13 00 SANITARY WASTE AND VENT PIPING

A. PIPING INSTALLATION:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 2. DRAWINGS AND DIAGRAMS SHOW SIZE AND APPROXIMATE LOCATION OF PIPING. THE DRAWINGS AND DIAGRAMS SHOULD BE ACCURATE AND EXACT. PROVIDE ADDITIONAL OFFSETS TO COORDINATE WITH INSTALLATION REQUIREMENTS OF OTHER SYSTEMS. ROUTE ABOVE GROUND PIPING IN ORDERLY MANNER. PARALLEL TO BUILDING STRUCTURE, OFFSET PIPE CONNECTIONS AT EQUIPMENT TO ALLOW FOR SERVICE AND MAINTENANCE.

3. PROVIDE NO-HUB ADAPTER ON PVC PIPE WHERE USING NO-HUB COUPLINGS.

4. SLOPE SANITARY PIPE 2" AND SMALLER 1/4" PER FOOT; 3" AND LARGER PIPING 1/8" PER FOOT.

5. SEE DRAWINGS AND DETAILS FOR PVC OR CPVC PIPING TO BE INSULATED.

6. ANY TRANSITIONS BETWEEN PVC AND CPVC SHALL BE PERFORMED AS RECOMMENDED BY THE MANUFACTURER USING CPVC SOLVENT CEMENT AND CLEANER.

7. CONTRACTOR SHALL RECEIVE STARTUP INSTRUCTIONS FROM MANUFACTURER'S REPRESENTATIVE PRIOR TO INSTALLING CPVC PIPING.

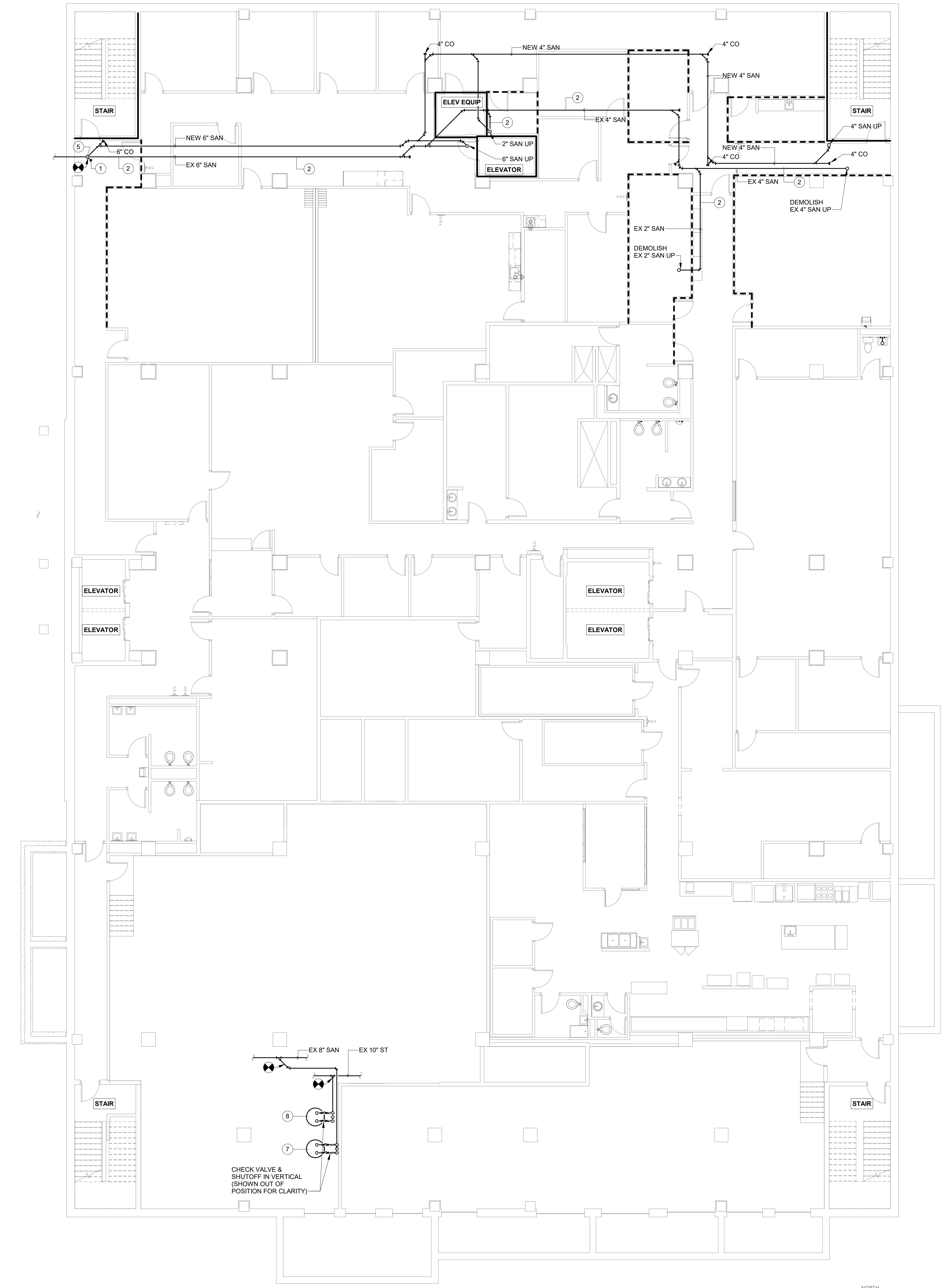
8. CONTRACTOR SHALL PROVIDE MANUFACTURER'S CERTIFICATION FOR CPVC PIPE AND FITTINGS, THAT MATERIAL HAS BEEN TESTED IN CONFORMANCE WITH ASTM E84 AND MEETS THE FLAME SPREAD INDEX OF 25 OR LESS, AND SMOKE DEVELOPMENT OF 50 OR LESS.

B. STORM AND SANITARY DRAIN PIPE TESTING: TEST DRAIN AND VENT PIPING PER CODE REQUIREMENTS.

C. SANITARY WASTE AND VENT PRODUCTS:

1. CPVC WASTE AND VENT:

a. SPEARS LABASTIC CPVC SCHEDULE 40 PIPE AND DWV FITTINGS, ASTM F-2618 AND D-3511, SOLVENT CEMENT PER ASTM F-2618.



GENERAL NOTES:

- THIS BUILDING USES RETURN AIR PLENUMS. PIPING SHALL BE INSTALLED IN SUCH A MANNER SO AS TO NOT BLOCK THE RETURN AIR PATH, RETURN AIR OPENINGS TO SHAFTS, AND INTAKE DUCTWORK.
- THE EXISTING BUILDING OCCUPANCY OF THE GROUND FLOOR AND FIRST FLOOR IS B, BUSINESS. THE SECOND FLOOR IS A-3, ASSEMBLY. THE THIRD, FOURTH, AND FIFTH FLOORS ARE I-3, INSTITUTIONAL.
- THE EXISTING BUILDING CONSTRUCTION CLASSIFICATION IS 1A,
- THE FLOOR CONSTRUCTION IS 2 HOUR FIRE RESISTANCE RATED - 10" PRECAST CONCRETE PLANK WITH 3" STRUCTURAL CONCRETE TOPPING.
- ALL FLOOR PENETRATIONS SHALL BE SEALED AND FIRE STOPPED WITH INTUMESCENT FIRE STOP COLLARS.
- INSULATE ALL CPVC SANITARY WASTE WITH 1" FIBERGLASS INSULATION. SEE SPECIFICATION SHEET.

AN KEYNOTES

DEMOLISH EXISTING CLEANOUT & CONNECT SAN TO EXISTING SAN THRU WALL.

DEMOLISH EXISTING CAST IRON SAN OR SAN VENT.

PROVIDE A RISER CLAMP TO VERTICAL SECTION OF PVC PIPE AT WALL & ANCHOR VERTICAL RISER TO WALL.

MODIFY DISCHARGE OF EXISTING DUPLEX SEWAGE EJECTOR. REMOVE 3" GALVANIZED RISER FROM PIT & CUT GROOVE FOR A VERTICAL COUPLING. INCREASE FROM 3" TO 4" & USE EXISTING " FLANGED SHUTOFF & CHECK VALVE. DEMOLISH EXISTING 5" NO HUB CAST IRON VERTICAL & HORIZONTAL PIPE AT CEILING & REPLACE WITH 6" SCHEDULE 40 GALVANIZED WITH CUT GROOVE VICTAULIC JOINTS. ALL FITTINGS SHALL BE GALVANIZED VICTAULIC GROOVED FITTINGS. CONNECT 6" GALVANIZED TO EXISTING 5" CAST IRON AT MAIN.

MODIFY DISCHARGE OF EXISTING DUPLEX CLEAR WATER PUMPS. REMOVE 2" GALVANIZED RISERS FROM PIT & CUT GROOVE FOR A VICTAULIC COUPLING. INCREASE FROM 2" TO 4" RE-USE EXISTING 4" SHUTOFF & CHECK VALVES. DEMOLISH EXISTING 5" NO HUB CAST IRON TO 10" STORM MAIN AT CEILING REPLACE WITH 4" SCHEDULE 40 GALVANIZED WITH CUT GROOVE VICTAULIC JOINTS. ADAPT TO EXISTING 5" NO HUB CAST IRON AT MAIN.

ALL LEGEND

WALL WILL EXTEND TO
FLOOR STRUCTURE ABOVE

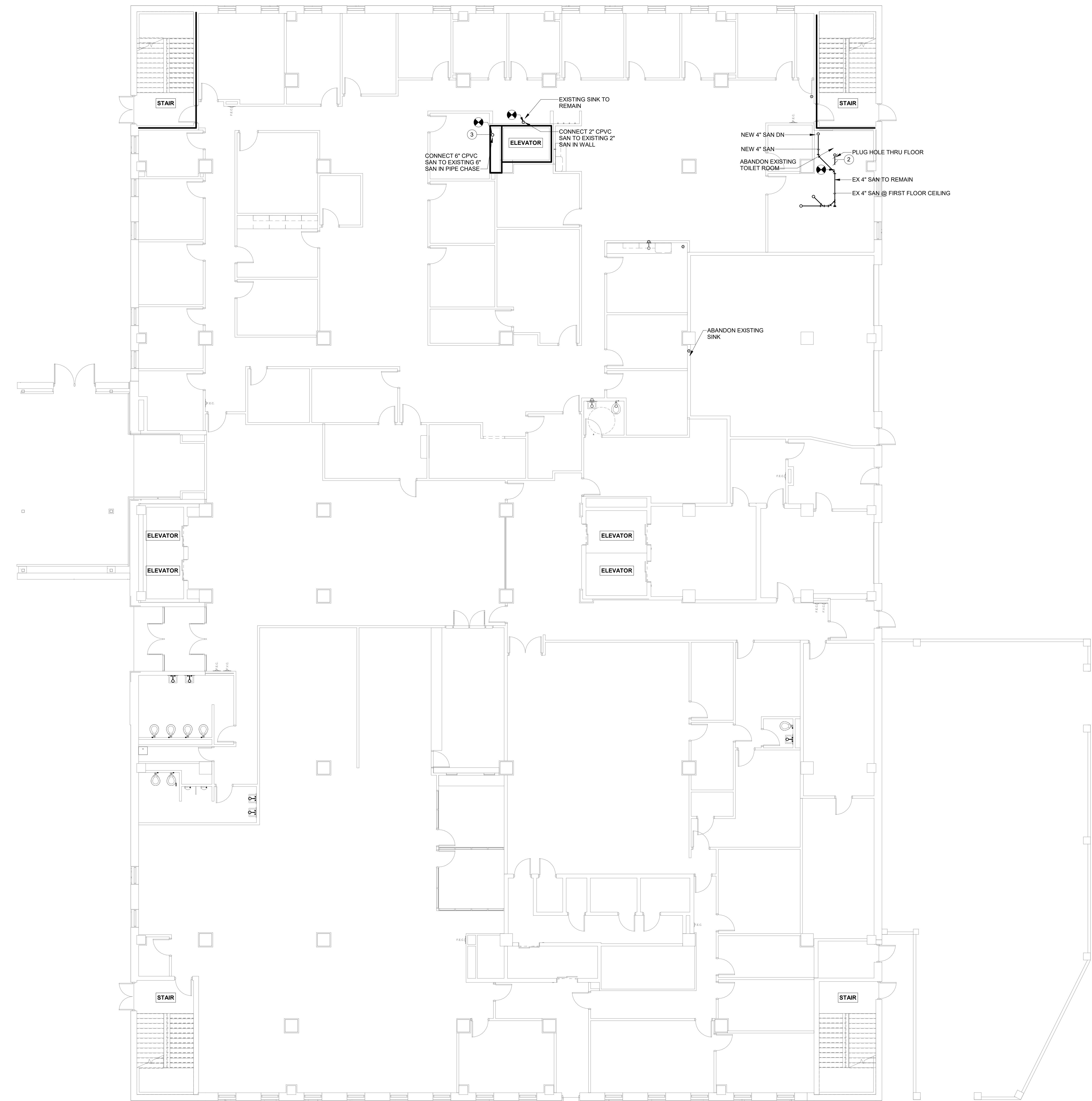
EXISTING 2 HOUR FIRE
BARRIER WALL

**OC PLUMBING PROJECT:
OUTAGAMIE COUNTY JUSTICE CENTER
6. WALNUT & W. 8TH, APPLETON, WI 54914
GROUND FLOOR PLAN**

McMAHON ENGINEERS \ ARCHITECTS

1445 McMAHON DRIVE NEENAH, WI 54956
Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025
Tel: (920) 751-4200 Fax: (920) 751-4284
www.mcmgrp.com

DESIGNED	DRAWN
MLS	BLG
PROJECT NO.	
00002-61800117	
DATE	
APRIL 27, 2018	
SHEET NO.	
P100	



1
P101 1/8" = 1'-0"
NORTH

McMAHON
ENGINEERS ARCHITECTS
4460 Parkwood Drive, Suite 100, Appleton, WI 54914
Tel: (920) 751-4220 Fax: (920) 751-4234
www.mcmgpc.com

PLAN KEYNOTES

- 2 DEMOLISH EXISTING CAST IRON SAN OR SAN VENT.
- 3 6" SAN STACK SERVES FIXTURES ON UPPER FLOORS IN THE JAIL WHICH IS OCCUPIED 24 HOURS A DAY. COORDINATE WITH STAFF & MAINTENANCE ON APPROPRIATE TIME TO CUT OVER FROM THE CAST IRON RISER TO THE NEW PVC RISER.

WALL LEGEND

- WALL WILL EXTEND TO FLOOR STRUCTURE ABOVE
- EXISTING 2 HOUR FIRE BARRIER WALL

OC PLUMBING PROJECT:
OUTAGAMIE COUNTY JUSTICE CENTER
S. WALNUT & W. 8TH, APPLETON, WI 54911
FIRST FLOOR PLAN

DESIGNED
MLS
DRAWN
BLO
PROJECT NO.
00002-61800117
DATE
APRIL 27, 2018
SHEET NO.
P101