- ALL MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL STANDARDS AND TO THE APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS, INCLUDING THOSE FURNISHED BY SUBCONTRACTORS.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED PRODUCT. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
- THESE DRAWINGS SHOW ONLY REPRESENTATIVE AND TYPICAL DETAILS TO ASSIST THE CONTRACTOR. THE DRAWINGS DO NOT ILLUSTRATE EVERY CONDITION. ALL ATTACHMENTS, CONNECTIONS, FASTENINGS, ETC., SHALL BE PROPERLY SECURED IN CONFORMANCE WITH THE BEST PRACTICE, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING THEM.
- DETAILS SHOWN ON DRAWINGS APPLY AT ALL LIKE CONDITIONS.
- THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATED HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
- INSTALL ALL MANUFACTURING ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDED SPECIFICATIONS; EXCEPT THAT THE SPECIFICATIONS HEREIN, WHERE MORE STRINGENT, SHALL BE COMPLIED WITH.
- PROVIDE AND MAINTAIN IN PROPER ORDER AND IN GOOD, CLEAN CONDITION AT THE PROJECT SITE, ONE COMPLETE SET OF DRAWINGS. PRINT IN PENCIL, NEATLY AND ACCURATELY, ANY AND ALL CHANGES TO THE PROJECT. THIS SET OF PRINTS SHALL BE SCANNED AND CONVERTED TO PDF FILE FORMAT, AND PRESENTED TO THE OWNER AT THI TIME OF FINAL ACCEPTANCE OF THE WORK BY THE G.C.
- ANY CLARIFICATION TO THE DRAWINGS SHALL BE SUFFICIENTLY GIVEN AND IN WRITING BEFORE IT SHALL BE ADDRESSED BY THE ARCHITECT. ANY CHANGE THAT WILL EFFECT TIMING OR COST SHALL HAVE APPROVAL IN WRITING PRIOR TO WORK BEING DONE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS OWN INTERNET, TELEPHONE, TOILET, WATER AND ELECTRICITY FOR ALL PROJECT FUNCTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TAPS, EXTENSIONS, VALVES OR OTHER DEVICES NECESSARY TO RUN POWER TOOLS AND EQUIPMENT. SUCH MODIFICATIONS TO EXISTING UTILITIES MUST BE REMOVED AT COMPLETION OF THE PROJECT, LEAVING ALL UTILITIES IN "LIKE NEW" CONDITION.
- THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES ADEQUATE SAFETY BARRICADES AND CLEAR ACCESS IN AND OUT OF THE WORK SITE SO AS TO FACILITATE DAILY TRAFFIC MOVEMENT, DELIVERIES AND SAFETY.
- THE CONTRACTOR SHALL LIMIT ACCESS TO THE PROJECT SITE TO AUTHORIZED PERSONS AND EQUIPMENT ONLY.
- 12. EXCEPT WHERE OTHERWISE SPECIFIED, THE CONTRACTOR SHALL AT ALL TIMES PROVIDE. PROTECTION AGAINST WEATHER TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FROM INJURY OR DAMAGES. AT THE END OF THE DAYS WORK, ALL NEW WORK LIKELY TO BE DAMAGED SHALL BE COVERED OR OTHERWISE PROTECTED AS REQUIRED.
- SUBSTITUTIONS WILL BE CONSIDERED ONLY WHERE THE TERM "APPROVED EQUAL" IS USED. APPROVAL IS AT THE SOLE DISCRETION OF THE ARCHITECT.
- 4. ALL ITEMS TO BE INSTALLED BY G.C. SHALL REQUIRE UNLOADING AND ASSEMBLY IF NECESSARY.
- . GENERAL CONTRACTOR IS RESPONSIBLE FOR UNLOADING, ACCEPTING AND CHECKING EQUIPMENT FOR ALL OWNER-SUPPLIED ITEMS.
- . GENERAL CONTRACTOR IS RESPONSIBLE FOR DAMAGES AND/OR FREIGHT CLAIMS FOR ALL SHIPMENTS TO THE PROJECT SITE.
- ALL NEW ITEMS SHALL FULLY COMPLY WITH ADA ACCESSIBILITY GUIDELINES SECTION 4.1.3 ACCESSIBLE BUILDINGS: NEW CONSTRUCTION. GENERAL CONTRACTOR SHALL SECURE FINAL ACCESSIBILITY SITE INSPECTION APPROVAL PRIOR TO DEMOBILIZATION.
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE CONTRACT DOCUMENTS.
- . THE OWNER SHALL BE NOTIFIED OF ANY UNFORSEEN CONDITIONS WHICH MAY AFFECT PROGRESS OR COST OF WORK PERFORMED.
- ). FIRE EXTINGUISHERS SHALL BE LOCATED PER DIRECTION OF FIRE DEPARTMENT. PROVIDE A MINIMUM OF 2. MAXIMUM TRAVEL DISTANCE TO A FIRE EXTINGUISHER: 75'. FIRE EXTINGUISHERS SHALL BE PROVIDED, INSTALLED AND CERTIFIED BY THE GENERAL
- IF ANY HOT WORK IS DONE DURING THE CONSTRUCTION WORK A FIRE WATCH MUST BE CONDUCTED WITH A FIRE EXTINGUISHER NEAR THE HOT WORK SITE. ADJACENT AREAS SHOULD BE PROTECTED THRU THE USE OF A FIRE PROOF BLANKET AROUND THE AREA OF
- ADDRESS IDENTIFICATION. ALL BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS NUMBERS OR LETTERS PER IBC 501.2. EACH CHARACTER SHALL BE A MINIMUM 8 INCHES HIGH AND A MINIMUM OF 0.5 INCH WIDE, INSTALLED ON A CONTRASTING BACKGROUND AND BE PLAINLY VISIBLE FROM THE RIGHT-OF-WAY.

### ALL FIRE BLOCKING AND DRAFT STOPPING SHALL CONFORM TO THE BUILDING CODE.

- FIRE BLOCKS SHALL BE PROVIDED IN ACCORDANCE WITH THE BUILDING CODE AT THE FOLLOWING LOCATIONS:
- 2.a. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS, AT 10-FOOT INTERVALS ALONG THE LENGTH
- AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS THOSE THAT OCCUR AT SOFFITS, DROP CEILINGS AND COVE
- IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALLS UNDER THE STAIRS ARE UNFINISHED.
- IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS THAT AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS.



# TENANTIMPROVEMENTS

CARESPOT URGENT CARE

8132 LEE VISTA BLVD. #102, ORLANDO, FLORIDA 32801

### CODE SUMMARY

BUILDING CODES: FLORIDA BUILDING CODE 6TH EDITION (2017) FLORIDA BUILDING CODE ACCESSIBILITY 6TH EDITION (2017) NATIONAL ELECTRICAL CODE (2014) MECHANICAL CODE (2017) FUEL GAS CODE (2017) FLORIDA ENERGY CODE (2017) PLUMBING CODE (2017)

FLORIDA FIRE PREVENTION CODE 6TH EDITION (2017) NFPA 101 LIFE SAFETY CODE (2015) W/ FLORIDA AMENDMENTS NFPA 1 UNIFORM FIRE CODE (2015) W/ FLORIDA AMENDMENTS FLORIDA STATUTES FLORIDA ADMINISTRATIVE CODE

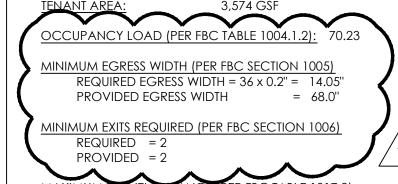
ORLANDO CITY CODE

INTERIOR FINISH OUT OF A NEW ONE STORY SHELL BUILDING. THE PROPOSED USE IS A BUSINESS OCCUPANCY WHICH IS CONSISTENT WITH THE ZONING OF THE PROPERTY.

PARCEL ID: 302325900200020

PROPERTY DESCRIPTION: VISTA PALMS COMMERCIAL 69/37 LOT 2

OCCUPANCY: BUSINESS GROUP B CONSTRUCTION: TYPE IIB - SPRINKLED



EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED 250'

NOT REQUIRED FIRE ALARM:

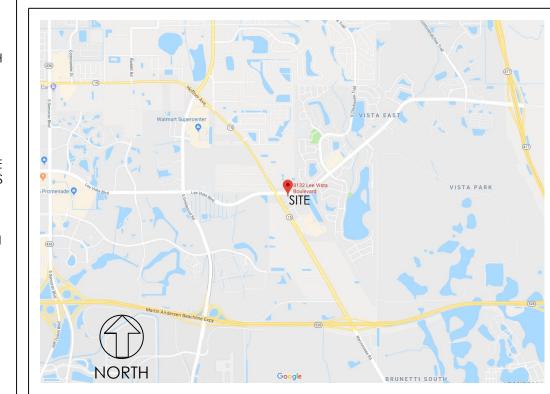
THE FIRE SPRINKLER CONTRACTOR SHALL SUBMIT AND OBTAIN A FIRE SPRINKLER PERMIT PRIOR TO INSTALLATION OR MODIFICATION OF THE SYSTEM.

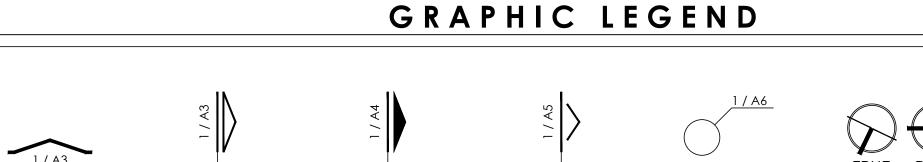
WALL, FLOOR AND CEILING FINISHES SHALL COMPLY WITH NFPA 101 SECTION 10.2

ARCHITECT'S STATEMENT OF FACT BY SIGNING AND SEALING THIS DRAWING, THE ARCHITECT ACKNOWLEDGES THAT

TO THE BEST OF HIS/HER KNOWLEDGE, THESE DRAWINGS AND THE PROPOSED WORK COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODES AND FIRE SAFETY REGULATIONS AS DETERMINED BY THE LOCAL AUTHORITY HAVING

### PROJECT LOCATION





WALL SECTION

**BUILDING SECTION** 

**ELEVATION** 

CAB.

C.B.

CEM.

C.J.

CLG.

CLR.

C.M.

C.O.

COL.

CONT

CONC.

CONTR.

COOR.

CORR.

DED.

DIA.

DN.

D.S.

DSB DWG

CONSTR.

ELEVATION REFERENC

DOOR NUMBER

**DETAIL SECTION** 

**PARTITION TYPE** 

ENLARGED DETAIL

INSIDE DIAMETER

XX1

**NORTH ARROWS** 

**REVISION CLOUD** 

## **ABBREVIATIONS**

$\underline{w}$	$\triangle$ I	∟.	LASI	1.0.	INSIDE DIAMETER	Ν.	KADIOS
Ø	CENTERLINE	EA.	EACH	IE.	INVERT ELEVATION	RA.	RETURN AIR
Ø Þ	DIAMETER OR ROUND	E.B.	EXPANSION BOLT	I.G.	ISOLATED GROUND	RD.	ROUND, ROOF DRAIN
&	AND			IN.	INCH	REINF.	REINFORCEMENT
		E.I.F.S.	EXTERIOR INSULATION FINISH	INSUL.	INSULATION	REQ'D.	REQUIRED
A, AMP.	AMPERE		SYSTEM			R.F.M.	RECESSED FLOOR MA
A.B.	ANCHOR BOLT	E.J.	EXPANSION JOINT	INT.	INTERIOR AND INTERCOM	RM.	ROOM
ABV.	ABOVE	EL.	ELEVATION	INV.	INVERT	R.O.	ROUGH OPENING
A/C	AIR CONDITIONING	ELEC.	ELECTRIC				
ACT	ACOUSTICAL TILE	E.P.	ELECTRICAL PANELBOARD	JAN.	JANITOR	S.	SOUTH AND SLOPE
ADA	AMERICANS W/ DISABILITIES ACT	EST.	ESTIMATE	JT.	JOINT AND JOINT TRENCH	S.A.	SUPPLY AIR
A.F.F.	AUTHORITY HAVING JURISDICTION	EQ.	EQUAL			S.B.	SPLASH BLOCK
A.H.J.	AREA LIGHTING	EQP.	EQUIPMENT	KIT.	KITCHEN	S.C.	SOLID CORE
AL.	AREA LIGHTING	E.T.S.	EXPOSED TO STRUCTURE	K.O.	KNOCKOUT	SCHED.	SCHEDULE
ALUM.	ALUMINUM	E.W.	EACH WAY			S.D.	SMOKE DETECTOR
ALT.	ALTERNATIVE	E.W.C.	ELECTRIC WATER COOLER	LAM.	LAMINATE	SEAL.	SEALANT
APPROX.	APPROXIMATE	EXH.	EXHAUST	LAV.	LAVATORY	SECT.	SECTION
ARCH.	ARCHITECT, ARCHITECTURAL	EXP.	EXPANSION	LBS.	POUNDS	S.F.	SQUARE FOOT/FEET
AUTO.	AUTOMATIC	EXT.	EXTERIOR	L.F.	LINEAR FEET	SHT.	SHEET
AW.	ACOUSTICAL WALL			L.P.	LOW POINT	SHTG.	SHEETING
		F.A.	FIRE ALARM	LS	LANDSCAPING	SIM.	SIMILAR
BRD.	BOARD	F.C.	FURRING CHANNEL			S.J.	SAW CUT JOINT
BLDG.	BUILDING	F.D.	FLOOR DRAIN	MAS'Y	MASONRY	S.O.	SLAB OPENING
BLK.	BLOCK	FDN.	FOUNDATION	MAX.	MAXIMUM	SPECS.	SPECIFICATIONS
BM.	BEAM	F.E.	FIRE EXTINGUISHER	MDF	MEDIUM DENSITY FIBERBOARD	SQ.	SQUARE
B.O.	BOTTOM OF	F.E.C.	FIRE EXTINGUISHER & CABINET	MECH.	MECHANICAL	S.S.	STAINLESS STEEL
B.O.F.	BOTTOM OF FRAMING	F.F.E.	FINISH FLOOR ELEVATION	MTL.	METAL	SS.	Sanitary sewer
B.O.C.	BASE OF CURB	F.F.L.	FINISH FLOOR LINE	MFR.	MANUFACTURER	STD.	STANDARD
BOT.	BOTTOM	F.H.C.	FIRE HOSE CABINET	M.H.	MANHOLE	STL.	STEEL
BRG.	BEARING	FIN.	FINISH (ED)	MIN.	MINIMUM	STRUC.	STRUCTURAL
BSMT.	BASEMENT	FLG.	FLASHING	MIR.	MIRROR	SUSP.	SUSPENDED
BTWN.	BETWEEN	FLR.	FLOOR (ING)	MISC.	MISCELLANEOUS		
B.U.	BUILT-UP	F.O.	FACE OF	M.O.	MASONRY OPENING	T.	tread, transformer
B.U.R.	BUILT-UP ROOF	F.O.C.	FACE OF CURB/CONCRETE	MTD.	MOUNTED	T&B	TOP & BOTTOM

MTD. F.O.F. **FACE OF FINISH** MATL. F.O.M. FACE OF MASONRY MWK. F.O.S. FACE OF STUDS FIBER REINFORCED PANEL FRP. FOOT OR FEET N.I.C. **FOOTING** NO. OR FURR. FURRING NOM. N.T.S. GROUND AND NATURAL GAS GA. GAUGE O.C. GAL. GALLON

HOLLOW METAL

CONDITIONING

HEATING VENTILATING AND AIR

HORIZONTAL

HOUR

HEIGHT

GALVANIZED CONTROL JOINT G.B. GRAB BAR COLUMN MOUNT G.C. GENERAL CONTRACTOR CFILING GROUND FAULT CIRCUIT CLEAR INTERRUPTER CONSTRUCTION MANAGER GALVANIZED IRON (STEEL) CONCRETE MASONRY UNIT GLUE-LAM BEAM **CLEAN-OUT** GND. GROUND COLUMN G.S.F. **GROSS SQUARE FOOTAGE CONCRETE** GYPSUM BOARD CONTINUOUS CONTRACTOR H.B. **HOSE BIBB** CONSTRUCTION H.C. **HANDICAPPED** COORDINATE HIGH DENSITY H.D. CORRIDOR

HORIZ.

H.P.

HR.

DOUBLE DEDICATED DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DOWNSPOUT **DOUBLE STRENGTH** 

CONDUIT OR CELCIUS

CENTER TO CENTER

CUBIC FEET PER MINUTE

COUNTER FLASHING

CORNER GUARD

CEILING HEIGHT

CAST IN PLACE

CERAMIC TIL

DRAWING

CATCH BASIN

CEMENT

MATERIAL (S) MILLWORK NORTH NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE ON CENTER (S) OUTSIDE DIAMETER O.F.C.I. O.P.H. O.S.A. O.S.B. P/L. PEMB PER. P.LAM. HIGH POINT AND HORSE-POWER PLUMB.

P.S.F.

P.S.I.

PVC.

PVMT.

OWNER FURNISHED & CONTRACTOR INSTALLED OWNER FURNISHED & OWNER INSTALLED OVERHEAD OPENING OPPOSITE HAND OPPOSITE **OUTSIDE AIR** ORIENTED STRAND BOARD PROPERTY LINE PRE-ENGINEERED METAL BUILDING V.I.F. PERIMETER PLASTIC LAMINATE PLUMBING PLYWD. PLYWOOD PANEL PAIR PREFINISHED **PRFFIN** 

POLYVINYL CHLORIDE

PAVEMENT

U.O.N. UNLESS OTHERWISE NOTED VOLTS AND VENT VENT. VENTILATION VERT. VERTICAL VESTIBULE VERIFY IN FIELD VINYL COMPOSITION TILE V.C.T. VTR. VENT THRU ROOF VINYL WALL COVERING V.W.C. WEST, WATTS AND WATER WITHOUT WOOD POUNDS PER SQUARE FOOT WIRE GLASS POUNDS PER SQUARE INCH W.H.

W.W.F.

THRES.

T.O.C.

T.O.P.

U.N.O.

T.S.

WATER HEATER WATERPROOF **WORK POINT** WELDED WIRE FABRIC

TELEPHONE

INSTALLED

**THICKNESS** 

TUBE STEEL

TYPICAL

TOP OF

**THRESHOLD** 

TABLE

**TONGUE & GROOVE** 

TENANT FURNISHED &

CONTRACTOR INSTALLED

TOP OF CURB/CONCRETE

TOP OF PAVEMENT/PARAPET

UNIFORM DISTRIBUTED LOAD

UNLESS NOTED OTHERWISE

**TENANT FURNISHED & TENANT** 

 NEW / REVISED SHEET O REISSUED SHEET ARCHITECTURAL MECHANICAL - ELECTRICAL

P-1 | MEP COVER SHEET - SYMBOLS

P-2 | MEP COVER SHEET - NOTES P-1 PLUMBING FLOOR PLAN
P-2 PLUMBING SCHEDULES
P-3 PLUMBING DETAILS
P-4 PLUMBING RISER DIAGRAI

DRAWING INDEX

### CONTACT LIST

PROJECT MANAGEMENT DICKERSON DESIGN BUILD 8333 DOUGLAS AVE., STE. 1300 DALLAS, TEXAS 75225

CONTACT: JOHN DICKERSON PHONE: 214 691 5300

RCHITECT:

RENEE LYNN + GLOTTA 2232 DANA DRIVE FLOWER MOUND, TEXAS 75028 **CONTACT: ERNIE GLOTTA** PHONE: 214 799 5031

AOS ENGINEERING 5020 TENNYSON PKWY. PLANO, TEXAS 75024 CONTACT: ANGIE BERRYMAN PHONE: 214 432 3030

### PRINT RECORD

<u>PURPOSE</u>

OWNER REVIEW

DATE 10 / 15 / 2018 10 / 29 / 2018 12 / 12 / 2018 1 / 31 / 2019

CONSTRUCTION ISSUE PLAN REVIEW RESPONSE

ARCHITECTURAL & ELECTRICAL PLAN REVIEW REISSUE

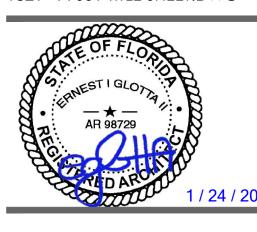
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enter 

32

/1 $\setminus$  12-12-18  $\,$  CITY COMMENTS No. Date REVISIONS

1821 - A 001 TITLE SHEET.DWG



TITLE SHEET

Project No. 10-29-2018 Last Revision

# Ш + ШΖ ш >- $\sim$ -

# 0 te D 0

12/12/18 City Comment - Revision 11/28/18 City Comment - Revision No. Date REVISIONS

> GREGORY C. SPEER, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 63689.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY GREGORY C. SPEER, PE ON 01/24/19 USING A DIGITAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**COVER SHEET** 

ENGINEERING

NO.63669

Mary Control

STATE OF

CORIOS

5020 Tennyson Parkway - Plano, TX 75024 Dallas / Fort Worth 214.432.3030 Houston 832.532.2007

DISCIPLINES

**SYMBOLS** Project No.

2018-10-29 Date Last Revision

**(1)** 2 3

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER

- IT IS THE INTENT AND MEANING OF THE CONSTRUCTION DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE A MECHANICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL. OR CUSTOMARILY INCLUDED EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN.
- 2. THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE REQUIREMENTS OF THE CONTRACT, UPON COMMENCEMENT OF CONSTRUCTION FOR THE WORK INCLUDED IN THIS CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH A STUDY OR EXAMINATION AND THAT HE IS FAMILIAR WITH AND ACCEPTS ALL CONDITIONS OF THE
- PROVIDE EQUIPMENT. MATERIALS, LABOR, SUPERVISION AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATING HVAC OR PLUMBING SYSTEM AS SHOWN OR INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PROTECT ALL EXISTING OPERATIONS AND PROPERTY ADJACENT WITH WHICH WORK COMES IN CONTACT OR OVER WHICH HE MAY TRANSPORT, HOIST OR MOVE MATERIALS, EQUIPMENT, DEBRIS, ETC. AND SHALL REPAIR SATISFACTORILY ALL DAMAGES CAUSED BY HIM DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE WITH NEW MATERIALS AND/OR EQUIPMENT FAILING TO GIVE SATISFACTORY SERVICE DURING THE WARRANTY PERIOD. THE CONTRACTOR SHALL COORDINATE AND NOTIFY THE BUILDING OWNER AND OPERATOR FOR APPROVAL AND SCHEDULING OF ANY BUILDING OR EXISTING TENANT SYSTEM INTERRUPTION.
- MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CONTRACT DOCUMENTS, APPLICABLE CODES AND STANDARDS, AND, IN THE CASE OF DIFFERENCES BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER IN WRITING OF SUCH DIFFERENCES. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS.
- 5. THE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE, BUT DO NOT ATTEMPT TO INDICATE THE LOCATION OF ALL EXISTING EQUIPMENT. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS SURROUNDING THE INSTALLATION OF HIS WORK PRIOR TO PROCEEDING WITH THE INSTALLATION. CHANGES REQUIRED TO THE DESIGN SHOWN ON THESE DRAWINGS DUE TO EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER/OWNER FOR REVIEW BY WAY OF SHOP DRAWINGS OR SKETCHES DETAILING THE EXISTING CONDITIONS AND THE PROPOSED CHANGE.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED. AS INTERPRETED BY THE ENGINEER, EXPERIENCED CRAFTSMEN SHALL MAKE THE INSTALLATION OF ALL EQUIPMENT IN A NEAT WORKMANSHIP LIKE MANNER, THE CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, COST AND SERVICE NECESSARY TO COMPLETELY INSTALL ALL MECHANICAL WORK. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE AS SCHEDULED OR APPROVED EQUAL.
- 7. COORDINATE THERMOSTAT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL THERMOSTAT ABOVE DIMMER SWITCH.
- 8. PROPERLY SUPPORT ALL EQUIPMENT AND PIPING WITHIN THE BUILDING AND PROVIDE ADEQUATE PROVISIONS FOR SLOPE AND ANCHORAGE. CONTRACTOR SHALL USE HANGERS, RODS AND INSERTS APPROVED BY UNDERWRITERS LABORATORIES FOR THE SERVICE INTENDED, SECURELY SUPPORTED BY STRUCTURAL MEMBERS WHICH IN TURN ARE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE.
- PROVIDE VIBRATION ISOLATION FOR MOTOR DRIVEN MECHANICAL EQUIPMENT.
- 10. ALL FANS SHALL CARRY THE CERTIFIED RATING SEAL AUTHORIZED BY AMCA.
- 11. PROVIDE FLEXIBLE DUCTWORK CONNECTIONS AT EQUIPMENT.
- 12. DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS. DUCT AND FIRE DAMPER SIZES SHOWN ARE AIRSTREAM DIMENSIONS. ALL LONGITUDINAL AND TRANSVERSE SEAMS AND DUCT CONNECTIONS SHALL BE SECURELY FASTENED AND SEALED WITH TAPES OR MASTICS MEETING UL 181A OR UL181B, WELDS, OR GASKETS.
- 13. INSULATE NEW SUPPLY AND RETURN DUCTWORK AND PLENUMS WITH EITHER EXTERNAL INSULATION TYPE IV DUCT WRAP OR INTERNAL DUCT LINER, 1.5 PCF MINIMUM DENSITY. (SIZES SHOWN ARE AIRSTREAM DIMENSIONS.) DUCTWORK AND PLENUMS WITHIN UNCONDITIONED SPACES SHALL HAVE MINIMUM R-6 INSULATION. EXTERIOR DUCTWORK SHALL HAVE MINIMUM R-8 INSULATION.
- 14. DIFFUSERS, REGISTERS AND GRILLES SHALL BE BUILDING STANDARD UNLESS NOTED OTHERWISE AND SHALL BE PROVIDE WITH FRAMES COMPATIBLE WITH CEILING TYPE. DO NOT SPAN AIR DEVICES OVER PARTITIONS.
- 15. PROVIDE AN AIR BALANCING DEVICE FOR EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE. PROVIDE YOUNG REGULATORS WITH BOWDEN CABLE CONTROL FOR ALL DAMPERS ABOVE INACCESSIBLE CEILING. COORDINATE EXACT LOCATION OF ESCUTCHEONS IN CEILING WITH ARCHITECT PRIOR TO INSTALLATION.
- 16. CONTRACTOR TO VERIFY RETURN AIR PATH AND INCORPORATE RETURN AIR TRANSFER THROUGH WALLS AS NECESSARY. OPENING SIZED FOR A MAXIMUM OF 500 FPM UNLESS NOTED OTHERWISE
- 17. COORDINATE ALL WALLS TO DECK WITH EXISTING DUCTWORK AND EXISTING TERMINAL UNITS.
- 18. BALANCING OF WATER AND AIR SYSTEMS SHALL BE PROVIDED UNDER THIS CONTRACT FOR ALL SYSTEMS WITHIN TENANT BORDERS AND ADJACENT AREAS THAT MAY BE AFFECTED BY BALANCING FOR THIS TENANT. BALANCING CONTRACTOR TO REVIEW DRAWINGS AND NOTIFY THE CONTRACTOR OF APPURTENANCES NEEDED FOR A PROPERLY BALANCED SYSTEM, TEST AND BALANCE CONTRACTOR TO BE T.A.B. CO.
- 19. PROVIDE NEBB CERTIFIED AIR BALANCE REPORT.
- 20. COLD AND HOT WATER PIPING SHALL BE TYPE L HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS. PROVIDE SOFT COPPER PIPING UNDER SLAB TO AVOID UNDERGROUND FITTINGS.
- 21. INSULATE DOMESTIC HOT WATER AND RECIRCULATION LINES (1" THICK) AND DOMESTIC COLD WATER LINES (1/2" THICK) WITH OWENS CORNING FIBERGLASS 25 ASJ, JOHNS-MANVILLE AP OR APPROVED EQUAL, SEALED TO PREVENT SWEATING AND CONTINUOUS THROUGH WALLS, FLOORS, CEILINGS. ALL HOT WATER PIPING SHALL BE INSULATED PER THE ENERGY CODE. COLD WATER PIPING SHALL BE INSULATED IN EXTERIOR WALLS, CEILINGS OR IN SPACES EXPOSED TO OUTDOOR TEMPERATURES WITH 1" THICK FIBERGLASS INSULATION.
- 22. SOIL, WASTE AND DRAIN PIPING, 2" AND LARGER, SHALL BE SERVICE WEIGHT CAST IRON. WASTE PIPING BELOW THE SLAB SHALL HAVE BELL AND SPIGOT CAST IRON MANUFACTURED TO ASTM A 74 WITH TY-SEAL GASKETS MANUFACTURED TO ASTM C 564. CAST IRON PIPING ABOVE THE SLAB SHALL BE 'NO-HUB' PIPE AND FITTINGS MANUFACTURED TO CISPI 301. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL, DWV COPPER OR SERVICE WEIGHT CAST IRON. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND BE LISTED WITH NSF INTERNATIONAL. LABORATORY CHEMICAL WASTE SYSTEMS SHALL BE SCHEDULE 40 CPVC MANUFACTURED TO ASTM F 2618. CHARLOTTE PIPE OR APPROVED EQUIVALENT. IF APPROVED BY LOCAL CODES, SOIL, WASTE, AND DRAIN PIPING, 2" AND LARGER, SHALL BE POLYVINYL CHLORIDE (PVC) SCHEDULE 40 PIPING, ASTM AND NSF STAMPED AND APPROVED. FITTINGS SHALL BE PVC SCHEDULE 40 ASTM STAMPED AND APPROVED.
- 23. HOT WATER CIRCULATING SYSTEMS OR HOT WATER HEAT TRACE SHALL HAVE TIMECLOCK CAPABLE CONTROL.
- 24. PLUMBING FIXTURES AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED COMPLETE WITH TRIM AND ALL OTHER APPURTENANCES REQUIRED TO CONNECT TO ROUGH-IN PIPING AT FLOORS AND WALLS UNLESS OTHERWISE SPECIFIED.
- 25. WATER HEATING EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS WILL HAVE HEAT TRAPS INSTALLED ON THE SUPPLY AND DISCHARGE PIPING.
- 26. PVC PIPING LOCATED IN PLENUM RETURN MUST MEET ASTM E84 AND HAVE A FIRE SPREAD OF 25/50. ALL PIPING SHALL MEET ALL LOCAL CODE AND AMENDMENT REQUIREMENTS.
- 27. EXISTING EQUIPMENT NOTES:
- A. CONTRACTOR SHALL INSPECT EXISTING PLUMBING AND HVAC EQUIPMENT PRIOR TO SUBMITTING HIS BID.
- B. CONTRACTOR SHALL INCLUDE IN HIS BID A THOROUGH START-UP SERVICING AND CLEANING OF ALL EXISTING EQUIPMENT. PLACE ALL EXISTING SYSTEMS/EQUIPMENT IN PROPER OPERATING ORDER. C. IF REPAIRS ARE NECESSARY TO PLACE EXISTING EQUIPMENT IN WORKING ORDER, PROVIDE OWNER WITH A DETAILED WRITTEN REPORT OF NECESSARY REPAIRS AND A COST PROPOSAL TO PERFORM THE WORK. ALL SUCH SERVICE REPORTS SHALL BE DELIVERED TO THE OWNER WITHIN TWO DAYS OF NOTICE TO PROCEED. OWNER RESERVES THE RIGHT TO HAVE ANY REQUIRED REPAIRS DONE BY
- 28. PROVIDE INSTALLATION, OPERATION AND MAINTENANCE MANUALS TO THE OWNER.

OTHERS AND TO SEEK OTHER OPINIONS OR REQUIRED REPAIRS.

- 29. STANDARD NO-HUB COUPLINGS SHALL CONFORM TO CISPI 310 (MOST CURRENT EDITION) AND SHALL BE LISTED BY NSF INTERNATIONAL.
- 30. HEAVY DUTY COUPLINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM 1540 AND FM 1680 CLASS I.
- 31. COMPRESSION GASKETS FOR HUB & SPIGOT SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD C 564 AND ASTM C 1563 (MOST CURRENT EDITION)
- 32. JOINTS FOR PIPE AND FITTINGS SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODE REQUIREMENTS.

### **ELECTRICAL NOTES:**

- FOR EXACT LIGHT FIXTURE LOCATIONS, LIGHT FIXTURE SPECIFICATIONS, EXACT RECEPTACLE LOCATIONS AND MOUNTING HEIGHTS, REFER TO ARCHITECTURAL PLANS AND DETAILS. MEP PLANS ARE FOR CIRCUITING INFORMATION AND LIFE SAFETY ONLY.
- 2. COORDINATE SWITCH/DIMMER LOCATIONS AND SWITCHING/DIMMING PATTERNS WITH ARCHITECT PRIOR TO INSTALLATION.
- 3. POKE-THROUGH/FLOOR BOX SPECIFICATIONS SHALL BE AS FOLLOWS:
  - DUPLEX WALKER RC3 (OR EQUIVALENT)
  - QUADRAPLEX WALKER RC4 (OR EQUIVALENT) FURNITURE FEED (TWO DEVICES SHOWN) - WALKER RC7FFTC FOR POWER, WALKER RC900AM-114 FOR TELE/DATA (OR EQUIVALENTS) FURNITURE FEED (ONE DEVICE SHOWN) - WALKER RC9FFTC COMBINATION POWER/TELE/DATA TOMBSTONE (OR EQUIVALENT) SLAB ON GRADE FLOOR BOX - WALKER OMNIBOX 880CS3-1 (OR EQUIVALENT)
- TENANT'S CABLING VENDOR TO VERIFY THAT TELE/DATA POKE-THROUGH QUANTITIES SHOWN ON PLANS ARE SUFFICIENT FOR CABLING REQUIREMENTS. CONTACT AOS/ARCHITECT IF ADDITIONAL DEVICES ARE REQUIRED.
- 5. PROVIDE OUTLET BOXES FOR ALL RECEPTACLES, SWITCHES, TELE/DATA DEVICES, ETC. AS REQUIRED PER PLANS.
- 6. ALL WET LOCATION RECEPTACLES (WITHIN 6' OF WET LOCATION) SHALL BE RATED 'GFI'. ALL OUTDOOR RECEPTACLES SHALL BE RATED 'WP' AND 'GFI'. ALL VENDING MACHINE RECEPTACLES TO BE GFI PROTECTED.
- 7. ALL RECEPTACLES SHALL BE GROUNDED. ALL DEVICES TO MATCH BUILDING STANDARD TYPE, U.N.O. ON PLANS. ALL FINISHES SHALL BE SELECTED BY ARCHITECT.
- 8. COORDINATE WITH BUILDING MANAGEMENT AND STRUCTURAL ENGINEER PRIOR TO INSTALLING ANY PENETRATIONS THROUGH SLABS, FIRE RATED WALLS, AND ROOFS TO VERIFY ANY X-RAY OR OTHER REQUIREMENTS NECESSARY PRIOR TO PERFORMING WORK. FINISHED INSTALLATION SHALL MAINTAIN FIRE PROOF, WATER PROOF, AND STRUCTURAL INTEGRITY OF SYSTEM PENETRATED.
- 9. ALL 120V BRANCH CIRCUITS ARE PROTECTED BY 1P/20A BREAKERS U.N.O. ON PLANS.
- 10. AT ALL LOCATIONS WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, CONTRACTOR SHALL GANG SWITCHES UNDER ONE COVER PLATE.
- 11. ALL NEW LIGHT FIXTURES TO BE PROVIDED WITH LAMPS INCLUDED. ALL NEW/RELOCATED LIGHT FIXTURES SHALL BE SUPPORTED FROM ABOVE STRUCTURE, SEPARATE FROM CEILING GRID. PROVIDE AND INSTALL ALL REQUIRED ACCESSORIES RECOMMENDED BY MANUFACTURER FOR A COMPLETE INSTALLATION. CLEAN AND RELAMP ALL EXISTING TO REMAIN FIXTURES AS REQUIRED, VERIFY EXACT SCOPE IN FIELD.
- 12. ALL CONDUCTORS ARE TO BE COPPER, #12 GAUGE MINIMUM. CIRCUITS OF 120V EXCEEDING 115 FEET SHALL BE #10 GAUGE MINIMUM. CONTROL WIRING SHALL BE #14 GAUGE MINIMUM. ALL CONNECTIONS SHALL BE MADE WITH U.L. LISTED CONNECTORS. UPSIZE ALL SHARED NEUTRALS TO #10 WIRE.
- 13. DEMOLISH ALL UNUSED CONDUIT AND WIRING BACK TO SOURCE.
- 14. UTILIZE EXISTING BASE BUILDING EMERGENCY LIGHTING CIRCUITS FOR ALL EMERGENCY FIXTURES AND EXIT SIGNS. VERIFY MAXIMUM OF 16A PER CIRCUIT AFTER ADDITION OF NEW FIXTURES. IN THE ABSENCE OF EMERGENCY CIRCUITS, PROVIDE AND INSTALL BATTERY PACKS IN ALL EMERGENCY FIXTURES AND EXIT SIGNS.
- 15. IF ENERGY MANAGEMENT SYSTEM (EMS) IS PRESENT IN BUILDING, CONTRACTOR TO ROUTE ALL LIGHTING CIRCUITS THROUGH EMS AS DIRECTED BY BUILDING ENGINEER. COORDINATE IN FIELD.
- 16. PROVIDE POWER TO ALL NEW HVAC, VAV BOXES, DAMPERS, ETC. FROM NEAREST 120V GENERAL PURPOSE CIRCUIT OR FROM BUILDING HVAC CONTROL PANEL AS REQUIRED, MATCH BUILDING STANDARD. COORDINATE ANY CONNECTIONS TO CONTROL SYSTEM WITH BUILDING ENGINEER. VERIFY LOCATIONS AND QUANTITIES WITH MECHANICAL PLANS. PROVIDE LOCAL DISCONNECT SWITCH AT EQUIPMENT.
- 17. STEEL EMT CONDUIT SHALL BE UTILIZED FOR ALL HOME RUNS, 3/4" U.N.O. ON PLANS. MC CABLE SHALL BE ALLOWED FOR BRANCH WIRING BETWEEN LIGHTS AND RECEPTACLES U.N.O.
- 18. FOR EACH SINGLE PHASE OR THREE PHASE MOTOR, CONTRACTOR TO INSTALL LOCAL DISCONNECT. REFERENCE PLANS FOR DISCONNECT TYPE.
- 19. ALL FEEDERS AND BRANCH WIRING (120-208V), CONTROL WIRING, AND COMMUNICATION WIRING (LOW VOLTAGE) SHALL BE COMPLETELY ENCLOSED IN ELECTRICAL RACEWAY FROM SOURCE TO TERMINATION. INSTALL NYLON PULL CORD IN ALL RACEWAYS. ALL RACEWAYS SHALL BE FULLY SUPPORTED FROM SOURCE TO TERMINATION. PROVIDE AND INSTALL ALL SUPPORTING MEANS AS REQUIRED FOR A COMPLETE SYSTEM. CONTRACTOR TO INSTALL PULL BOXES, JUNCTION BOXES, WIREWAYS. ETC. WHERE REQUIRED PER NEC FOR A COMPLETE. CODE COMPLIANT SYSTEM.
- 20. CONTRACTOR TO REFERENCE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF ALL HVAC/PLUMBING EQUIPMENT PRIOR TO SUBMITTING BID AND ROUTING CIRCUITRY. CONTACT AOS IMMEDIATELY IF MECHANICAL/PLUMBING PLANS SHOW EQUIPMENT THAT IS NOT CIRCUITED ON ELECTRICAL PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE POWER TO ALL NEW HVAC/PLUMBING EQUIPMENT, TO ENSURE A COMPLETE, WORKABLE
- 21. CONTRACTOR TO OBTAIN APPROVAL FROM BUILDING MANAGEMENT FOR ANY SHUTDOWNS REQUIRED. UNDER NO CIRCUMSTANCES SHALL ANY ELECTRICAL DISTRIBUTION EQUIPMENT BE SHUT DOWN WITHOUT THE EXPRESS PERMISSION OF BUILDING MANAGEMENT.
- 22. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO PROPERTY (OR ADJACENT PROPERTY) CAUSED BY HIM DURING CONSTRUCTION AND FOR THE REPLACEMENT/REPAIR THEREOF.
- 23. CONTRACTOR SHALL HONOR ALL GUARANTEE COMMITMENTS FOR THE DESIGNATED TIME FRAME. REPLACE/REPAIR ANY FAILING EQUIPMENT/SYSTEMS AS DIRECTED BY BUILDING MANAGEMENT DURING THIS TIME FRAME.
- 24. ALL NEW EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE AND INSTALL ALL APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION.
- 25. ALL WORK SHALL FULLY COMPLY WITH ALL APPLICABLE CODES. CONTACT AOS AND/OR LOCAL CODE OFFICIALS TO RESOLVE ANY QUESTIONS REGARDING CODE ISSUES PRIOR TO PERFORMING WORK, SHOULD CONTRACTOR PROCEED WITH WORK IN QUESTION WITHOUT COORDINATING WITH CODE OFFICIALS, CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH RE-WORK DUE TO CODE VIOLATIONS.
- 26. PRIOR TO SUBMITTING BID. CONTRACTOR TO VISIT SITE TO FAMILIARIZE HIM/HER SELF WITH ALL EXISTING FIELD CONDITIONS. NOTIFY ARCHITECT/AOS OF ANY ITEMS DISCOVERED THAT ARE NOT COVERED ON PLANS THAT WILL AFFECT PRICING.
- 27. REFERENCE PLANS FOR ALL NEW EQUIPMENT LOCATIONS. MANUFACTURER OF ALL NEW DISTRIBUTION EQUIPMENT SHALL MATCH BUILDING STANDARD. VERIFY MANUFACTURER DURING SITE VISIT. ALL NEW PANELBOARDS TO HAVE COPPER BUS.
- 28. FINISHED WORK TO FULLY COMPLY WITH ALL BASE BUILDING STANDARDS. OBTAIN MANUAL OF BUILDING STANDARDS FROM BUILDING MANAGEMENT PRIOR TO SUBMITTING BID AND BEGINNING WORK.
- 29. ALL SURFACE MOUNTED RACEWAY SHALL BE ALUMINUM WITH DIVIDER. RACEWAYS SHALL BE SIZED PER NEC FOR WIRE QUANTITY THROUGH RACEWAY. FINISH OF RACEWAY TO BE SELECTED BY ARCHITECT.
- 30. UPDATE ALL AFFECTED PANEL SCHEDULES UPON COMPLETION OF WORK. UPDATED SCHEDULES MUST BE TYPED.
- 31. ALL ELECTRIC ROOM INSTALLATIONS SHALL BE DONE IN SUCH A WAY AS TO MAXIMIZE WALL/FLOOR SPACE FOR FUTURE EQUIPMENT.
- 32. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FIRE ALARM CONSTRUCTION DOCUMENTS TO LOCAL OFFICIALS FOR PERMIT. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QUANTITIES AND LOCATIONS OF ALL FIRE ALARM DEVICES TO MEET ALL APPLICABLE CODES AND FOR DETERMINING REQUIREMENTS FOR CONNECTIONS TO EXISTING BUILDING FIRE ALARM SYSTEM TO ENSURE A COMPLETE, WORKABLE SYSTEM. INSTALL NEW FIRE ALARM SYSTEM IN BUILDING WHERE DIRECTED BY LOCAL CODE OFFICIALS.
- 33. CONTRACTOR SHALL PROVIDE ALL ITEMS AND ACCESSORIES AS REQUIRED PER ALL RELATED MANUFACTURER'S RECOMMENDATIONS TO PROVIDE A COMPLETE, WORKABLE ELECTRICAL SYSTEM PER THE INTENT OF THE CONTRACT DOCUMENTS, EVEN THOUGH ALL NECESSARY ITEMS AND ACCESSORIES ARE NOT SHOWN ON
- 34. CONTRACTOR TO INSTALL A GROUNDING SYSTEM THAT FULLY COMPLIES WITH THE NEC AND ANY LOCAL CODES.
- 35. CONTRACTOR TO INSTALL CONDUIT WITH PULL STRING FROM BUILDING TELEPHONE CLOSET TO TENANT'S PHONE BOARD. COORDINATE EXACT CONDUIT SIZE AND CONDUIT ROUTING IN FIELD WITH TENANT AND BUILDING ENGINEER.
- 36. CONTRACTOR TO ROUTE 1-#6 INSULATED GROUND WIRE FROM BUILDING GROUND RISER TO TENANT TELEPHONE BOARD. IF TENANT HAS COPPER GROUND BAR IN SERVER/IT ROOM, CONTRACTOR MAY UTILIZE IT TO SERVE #6 GROUND WIRE TO PHONE BOARD. COORDINATE EXACT GROUNDING REQUIREMENTS IN FIELD WITH TELEPHONE SYSTEM INSTALLER PRIOR TO INSTALLING GROUND WIRE.
- 37. IN KITCHEN AREAS, ALL SINGLE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50A OR LESS AND ALL THREE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100A OR LESS TO BE GFCI PROTECTED PER NEC 210.8.

### **DEMOLITION NOTES:**

- 1. PROTECT THE EXISTING EQUIPMENT AND SYSTEMS TO REMAIN OPERATIONAL. IF DAMAGED OR DISTURBED IN THE COURSE OF THE DEMOLITION WORK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE WITH NEW PRODUCT OF EQUAL CAPACITY, QUALITY AND FUNCTIONALITY.
- 2. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ARRANGE THE SHUT OFF OF UTILITIES.
- CONTRACTOR SHALL BOX AND/OR PALLETIZE ALL DEMOLISHED EQUIPMENT AND PROTECT IT ON SITE. REMOVE THESE ITEMS FROM THE SITE AT THE DIRECTION OF THE OWNER.
- 4. CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA TO FULFILL THE INTENT OF THE COMPLETE DESIGN. REFER TO ARCHITECTURAL DOCUMENTS FOR DEFINITION OF SCOPE FOR DEMOLITION AREAS AND ADDITIONAL REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM THE EXTENT OF DEMOLITION AND RESOLVE ANY DISCREPANCIES WITH OWNER'S/LANDLORD'S CONSTRUCTION MANAGER.
- 5. FOR DEMOLITION AREAS, THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE SUPPRESSION DEMOLITION DRAWINGS AND REMOVE WIRING, RACEWAYS, AND ELECTRICAL EQUIPMENT ASSOCIATED WITH THE MECHANICAL, PLUMBING AND FIRE SUPPRESSION DEMOLITION.
- 6. ENSURE THAT ALL LIFE SAFETY SYSTEMS REMAIN OPERATIONAL AND MEET LIFE SAFETY CODE REQUIREMENTS FOR ALL OCCUPIED AREAS THAT REMAIN OPERATIONAL DURING/AFTER DEMOLITION. THIS INCLUDES. BUT IS NOT LIMITED TO, EGRESS PATHWAYS, FIRE ALARM SYSTEMS, EGRESS LIGHTING AND OTHER LIFE SAFETY SYSTEMS.
- PROTECT EXISTING EQUIPMENT AND SYSTEMS INTENDED TO REMAIN OPERATIONAL. IF DAMAGED OR DISTURBED IN THE COURSE OF THE DEMOLITION WORK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE WITH NEW PRODUCT OF EQUAL CAPACITY, QUALITY AND
- 8. RE-ROUTE AND RE-CONNECT ANY CIRCUIT(S) THAT ARE TO REMAIN IN USE BUT INTERFERES WITH THE NEW CONSTRUCTION.
- 9. WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER, WHICH WOULD ADVERSELY AFFECT THE NORMAL OPERATION OF THE OWNER/LANDLORD'S PROPERTY OR OTHER BUILDING TENANTS, SHALL BE DONE AT A TIME OTHER THAN NORMAL WORKING HOURS. SCHEDULE ALL OUTAGES WITH OWNER/LANDLORD PRIOR TO SHUTDOWN.
- 10. OWNER/LANDLORD RESERVES THE RIGHTS TO ALL DEMOLISHED MATERIALS. COORDINATE AND VERIFY EQUIPMENT INTENDED TO BE SALVAGED PRIOR TO DEMOLITION. MATERIALS THAT OWNER/LANDLORD REQUESTS TO BE RE-USED OR SALVAGED. THE MATERIALS SHALL BE REMOVED IN A NEAT WORKMAN LIKE METHOD TO ALLOW THEIR RE-USE. PROTECT THE SALVAGE MATERIALS FOR REUSE BY PROPERLY PACKAGING THE MATERIALS TO PROTECT SALVAGED MATERIALS FROM DAMAGE; SECURELY PACKAGE ALL SALVAGE MATERIAL'S INSTALLATION HARDWARE AND PARTS TO SALVAGED MATERIALS.
- 11. REMOVE UNUSED BRANCH CIRCUITS BACK TO BRANCH PANELBOARD OF ORIGIN, MARK BREAKER AS 'SPARE' AND MAKE ELECTRICALLY SAFE. REMOVE ALL ABANDONED CONDUITS ABOVE LAY-IN CEILING, EXPOSED CONDUITS. FLEXIBLE CONDUITS, SURFACE RACEWAY, SURFACE MOUNTED OUTLET/JUNCTION BOXES, AND EQUIPMENT UNLESS NOTED OTHERWISE.

12. REMOVE DEMOLISHED MATERIAL FROM PROJECT SITE IN ACCORDANCE WITH

AND LOCAL REGULATIONS AND CODES FOR PROPER DISPOSAL.

ALL APPLICABLE CODES, STANDARDS AND REGULATIONS. FOLLOW ALL STATE



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12/12/18 City Comment - Revision 11/28/18 City Comment - Revision No. Date GREGORY C. SPEER, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 63689.

SIGNATURE.

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CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES

NO. 63669

STATE OF



Date

5020 Tennyson Parkway - Plano, TX 75024 Dallas / Fort Worth 214.432.3030 Houston 832.532.2007

Project No. Last Revision

**COVER SHEET** 2018-10-29

REVISIONS

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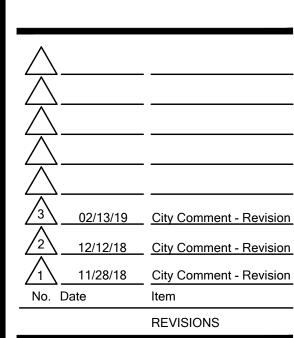
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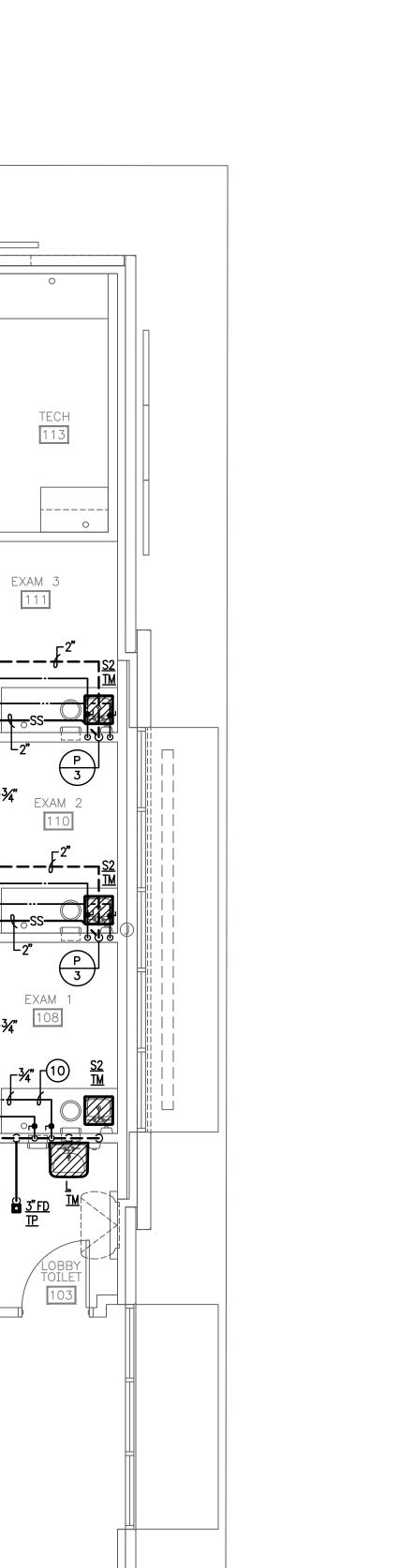
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PLUMBING FLOOR PLAN

Project No. 2018-10-29 Date Last Revision



X-RAY

**GENERAL NOTES** A. PROVIDE ALL STOP VALVES, P—TRAPS ETC. AS REQUIRED FOR COMPLETE INSTALLATION. INSULATE ALL EXPOSED WASTE AND

WATER LINES WITH 'PLUMBEREX PRO SERIES 2000' INSULATION PRIOR TO BID, THE CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SERVICE (SEWER, VENT, WATER,

ETC.) REQUIRED FOR COMPLETION OF THE PROJECT. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN

AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS. C. ALL FIXTURES AND APPURTENANCES SHALL BE INSTALLED AS PER CODE AND ALL ADOPTED AMENDMENTS.

D. INSTALL ALL BACKFLOW PREVENTERS IN ACCESSIBLE LOCATION PER LOCAL CODE REQUIREMENTS. PROVIDE REQUIRED CLEARANCES, SUPPORTS AND ACCESS AS REQUIRED.

E. REFER TO PLUMBING RISER DIAGRAMS FOR WATER CONNECTIONS TO ICE MACHINES, REFRIGERATORS, COFFEE MAKERS, ETC.

F. ALL HORIZONTAL SANITARY SEWER PIPING SHOWN IS LOCATED BELOW FLOOR. SLOPE AS REQUIRED BY CODE, NOT LESS THAN 1/8" FOR 1 FT.

G. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.

H. ALL DRAINS SHALL HAVE TRAP PRIMERS AND EQUIPPED WITH SHUT-OFF VALVES.

NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.

SAWCUT EXISTING FLOOR AS REQUIRED FOR PROPER INSTALLATION OF NEW PLUMBING FIXTURES.

K. CONDENSATE ROUTING AND SIZING SHOWN ON MECHANICAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR ROUTING AND TERMINATION OF MECHANICAL CONDENSATE PIPING.

ALL FIXTURES SHALL BE VENTED TO A VENT THRU ROOF (VTR). STUDOR VENTS ARE NOT ALLOWED.

### **PLUMBING NOTES:**

1 EXISTING SANITARY SEWER LINE TO REMAIN. FIELD VERIFY EXACT SIZE, LOCATION AND ELEVATION PRIOR TO BID.

2 EXISTING C.W. LINE TO REMAIN. FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO BID.

(3) MASTER SHUT-OFF VALVE. LOCATE AT 48" ABOVE FINISHED FLOOR BEHIND DOOR IN HOUSEKEEPING. COORDINATE EXACT LOCATION WITH LANDLORD PRIOR TO INSTALLATION.

 $\frac{\text{WH}-1}{\text{SINK}}$ , ELECTRIC WATER HEATER MOUNTED ABOVE MOP SINK. REFER TO DETAIL 1 ON SHEET P-3.

5 SOLENOID VALVE ASCO #8210G14 OR EQUAL. WIRED TO WALL SWITCH (BY ELECTRICAL CONTRACTOR).

6 PROVIDE 1/2" C.W. LINE WITH WATTS LF007 DOUBLE CHECK BACKFLOW PREVENTOR TO SERVE COFFEE MAKER. VERIFY LOCATION, ROUTE CONCEALED.

7 EXISTING 3" VENT THRU ROOF (VTR) TO REMAIN. FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO BID.

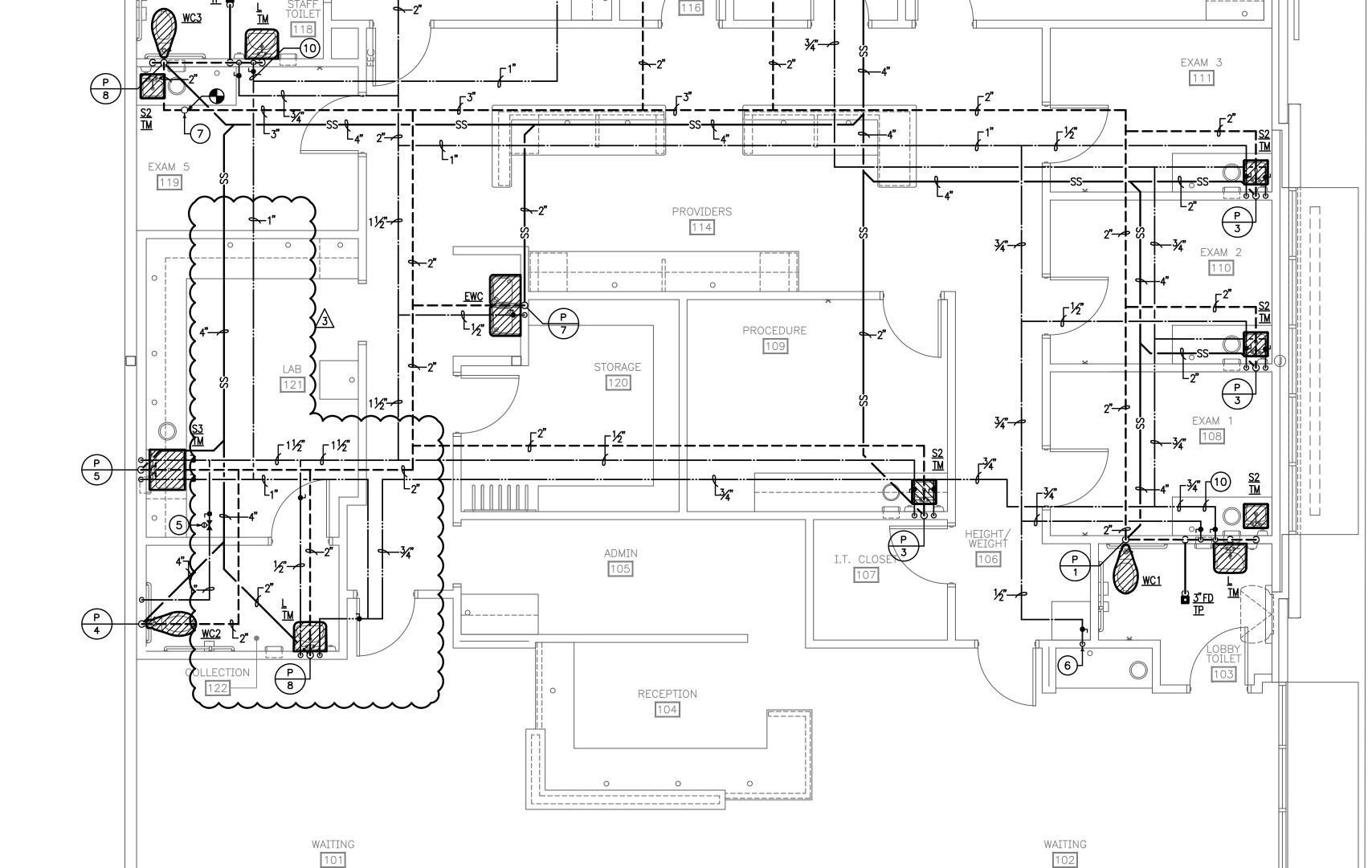
8 1" H.W. LINE FROM WATER HEATER TO SERVE PLUMBING FIXTURES.

9 REFER TO PLUMBING RISER DIAGRAM P/2 ON SHEET P-4 FOR WATER LINE TO SERVE REFRIGERATOR.

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES



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FLOOR PLAN - PLUMBING

SCALE 1/4" = 1-0"

STAFF LOUNGE

EXISTING 3/4"

<b>THERMOSTA</b>	TIC MIXING VALVE SCHEDULE
VALVE ASSEMBLY DESIGNATION/DESCRIPTION	ТМ
LOCATION/SERVICE	UNDER LAVATORY AND SINK
HOT WATER INLET TEMPERATURE *F	140°
BLENDED WATER TEMPERATURE *F	105°
SENSING RANGE	40°
PRESSURE DROP THRU SYSTEM PSI	10 psi
MANUFACTURER MODEL NUMBER	POWERS LFLM495

THERMOSTATIC MIXING VALVE WITH INLET AND OUTLET, TEMPERATURE CONTROL TO ASSE 1069, 1070 DOWN TO 0.5 GPM, ADVANCED THERMAL ACTUATOR, SOLID BRASS CONSTRUCTION, ADJUSTABLE TEMPERATURE SELECTION WITH LOCK DOWN, UNION CONNECTIONS, INTEGRAL CHECKS AND SCREEN.

	WATER HEATER SCHEDULE									
MARK	LOCATION	STORAGE WATER TEMP (*F)	VOLTS/PHASE	HEATING ELEMENT KW	MANUFACTURER/ MODEL NO.	REMARKS				
WH-1	HSKPG 116	140	208/1	4.5	A.O.SMITH DEL-30	30 GALLON WATER HEATER				

- GENERAL NOTES:

  1. TEMPERATURE AND PRESSURE RELIEF COPPER DRAIN LINE TO BE ROUTED FULL SIZE TO MOP SINK. 2. <u>WH-1</u> EFFICIENCY SHALL BE 0.98.
- 3. HOT WATER HEATING PIPING SHALL BE INSULATED WITH NOT LESS THAN 1 INCH OF INSULATION HAVING A

### CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H X FT SQUARED X \* F.

### **GENERAL NOTES**

- A. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE, CONTRACTORS SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE VERTICAL AND HORIZONTAL VARIATIONS IN THE LOCATIONS AND ELEVATIONS OF DUCTWORK, PIPING AND EXISTING CONDITIONS.
- EACH TRADE SHALL COORDINATE THE ROUTING AND INSTALLATION OF HIS WORK WITH THAT OF ALL OTHER TRADES THROUGH THE GENERAL CONTRACTOR. IN ANY INSTANCES OF CONFLICT, SYSTEMS REQUIRING "GRADE" OR "SLOPE" FOR DRAINAGE (SANITARY SEWER, SANITARY VENT, EQUIPMENT DRAINS, ETC ... ) SHALL HAVE PRIORITY.
- PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF EQUIPMENT. FIELD VERIFY EXISTING WALL PENETRATIONS AND PROPERLY SEAL AS REQUIRED TO MAINTAIN WALL OR FLOOR RATING.
- PROVIDE ALL EQUIPMENT, MATERIAL, LABOR, SUPERVISION, COSTS AND SERVICES REQUIRED TO INSTALL COMPLETE AND WORKING SYSTEMS, INCLUDING ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE, INCIDENTAL OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFIED OR SHOWN.
- PROVIDE ACCESS TO ALL CONCEALED EQUIPMENT AND VALVES. COORDINATE LOCATION OF ACCESS PANELS WITH ARCHITECT.
- PROVIDE CAST IRON EXPANSION JOINTS AT ALL FLOOR PENETRATIONS WHERE DRAINAGE OR VENT PIPES OCCUR.
- ALL HORIZONTAL SANITARY SEWER PIPING SHOWN IS LOCATED BELOW FINISHED
- ALL SANITARY VENT AND WATER LINES SHOWN ARE LOCATED ABOVE CEILING.
- EACH FIXTURE SHALL HAVE A SHUT-OFF VALVE AT THE FIXTURE. THESE VALVES ARE TO BE ADJUSTED SO AS TO PREVENT EXCESSIVE PRESSURE AT THE FIXTURE. PROVIDE WATER HAMMER ARRESTORS AT EACH FIXTURE WERE REQUIRED.
- INSTALL CLEANOUTS WHERE REQUIRED BY CODE, AT ALL CHANGES IN DIRECTION AND AT 75 FOOT INTERVALS ON STRAIGHT RUNS.
- PROVIDE A THERMOSTATIC MIXING VALVE AT EACH FIXTURE AS REQUIRED PER LOCAL CODE AND ALL ADOPTED AMENDMENTS.
- M. OFFSET ALL SEWER VENTS THROUGH THE ROOF A MINIMUM OF 15'-0" FROM ALL OUTSIDE AIR INTAKES. TERMINATE A MINIMUM OF 6" ABOVE ROOF.
- COLD AND HOT WATER PIPING SHALL BE TYPE L HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS. PROVIDE SOFT COPPER PIPING UNDER SLAB TO AVOID UNDERGOUND FITTINGS.
- O. INSULATE DOMESTIC HOT WATER AND RECIRCULATION LINES (1" THICK), AND DOMESTIC COLD WATER LINES (1/2" THICK) WITH OWENS CORNING FIBERGLASS 25 ASJ, JOHNS-MANVILLE AP OR APPROVED EQUAL, SEALED TO PREVENT SWEATING AND CONTINUOUS THROUGH WALLS, FLOORS, CEILINGS. ALL HOT WATER PIPING SHALL BE INSULATED PER THE ENERGY CODE. COLD WATER PIPING SHALL BE INSULATED IN EXTERIOR WALLS, CEILINGS OR IN SPACES EXPOSED TO OUTDOOR TEMPERATURES WITH 1 INCH THICK FIBERGLASS INSULATION.
- P. SOIL, WASTE AND DRAIN PIPING, 2" AND LARGER, SHALL BE SERVICE WEIGHT CAST IRON. WASTE PIPING BELOW THE SLAB SHALL HAVE BELL AND SPIGOT CAST IRON MANUFACTURED TO ASTM A 74 WITH TY-SEAL GASKETS MANUFACTURED TO ASTM C 564. CAST IRON PIPING ABOVE THE SLAB SHALL BE 'NO-HUB' PIPE AND FITTINGS MANUFACTURED TO CISPI 301. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL, DWV COPPER OR SERVICE WEIGHT CAST IRON. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND BE LISTED WITH NSF INTERNATIONAL. IF APPROVED BY LOCAL CODES, SOIL, WASTE, AND DRAIN PIPING, 2" AND LARGER, SHALL BE POLYVINYL CHLORIDE (PVC) SCHEDULE 40 PIPING, ASTM AND NSF STAMPED AND APPROVED. FITTINGS SHALL BE PVC SCHEDULE 40 ASTM STAMPED AND APPROVED.

	PUMP SCHEDULE										
MARK	LOCATION	SERVES	TYPE	GPM	TDH (FT)	HP	MAXIMUM RPM	VOLTS/PHASE	CYCLE	MANUFACTURER/ MODEL NUMBER	REMARKS
СР	HSKPG 116	DOMESTIC RETURN	IN-LINE	6	8	1/6	3600	120/1	60		VARIABLE SPEED PUMP WITH STAINLESS STEEL BODY.

MARK	PLUMBING FIXTURE SCHEDULE  DESCRIPTION
IMIMIN	DESCRIF (10N
<u>WC1</u>	HANDICAP FLOOR MOUNTED TANK TYPE WATER CLOSET. AMERICAN STANDARD "CADET" #2467.801 PRESSURE ASSISTED ELONGATED VITREOUS CHINA WITH RIGHT HAND TRIP LEVER, 1.1 GPF. CHURCH 9500C OPEN FRONT SEAT LESS COVER.
WC2	HANDICAP FLOOR MOUNTED WATER CLOSET. AMERICAN STANDARD "MADERA" #3043.001, 1.28 GPF, ELONGATED BOWL WITH 1-1/2" TOP SPUD. SLOAN "ROYAL" #111-1.28 FLUSH VALVE WITH HANDLE, SCREWDRIVER ANGLE STOP AND VACUUM BREAKER. CHURCH #9500C OPEN FRONT SEAT LESS COVER.
<u>WC3</u>	HANDICAP FLOOR MOUNTED TANK TYPE WATER CLOSET. AMERICAN STANDARD "CADET" #2467.100 PRESSURE ASSISTED ELONGATED VITREOUS CHINA WITH LEFT HAND TRIP LEVER, 1.1 GPF. CHURCH 9500C OPEN FRONT SEAT LESS COVER.
L	HANDICAP WALL MOUNTED LAVATORY. AMERICAN STANDARD "LUCERNE" 0356.015 VITREOUS CHINA "D" SHAPED BOWL, MOEN FAUCET 8228 WITH WRIST BLADE HANDLES, 8" FAUCET CENTERS, MOEN 14750 PERFORATED GRID DRAIN, 17 GAUGE BRASS P-TRAP. JOSAN CARRIER OR WATTS CARRIER.
<u>\$1</u>	HANDICAP STAINLESS STEEL SINK. ELKAY "LUSTERTONE" LRAD-2521 SINGLE COMPARTMENT SINK, 6-1/2" DEEP, MOEN FAUCET 8225 WITH WRIST BLADE HANDLES, 17 GAUGE BRASS P-TRAP, MCGUIRE SUPPLIES. PROVIDE WITH A GARBAGE DISPOSAL.
<u>S2</u>	HANDICAP STAINLESS STEEL SINK. ELKAY "LUSTERTONE" LRAD-1517 SINGLE COMPARTMENT SINK, 6-1/2" DEEP, MOEN FAUCET 8225 WITH WRIST BLADE HANDLES, 17 GAUGE BRASS P-TRAP, MCGUIRE SUPPLIES.
<u>S3</u>	HANDICAP STAINLESS STEEL SINK. ELKAY "LUSTERTONE" LRAD-2521 SINGLE COMPARTMENT SINK, 6-1/2" DEEP, MOEN FAUCET 8225 WITH WRIST BLADE HANDLES, 17 GAUGE BRASS P-TRAP, MCGUIRE SUPPLIES.
EWC	HANDICAP HI/LOW ELECTRIC WATER COOLER. ELKAY MODEL #EZTL8C, ALL STAINLESS STEEL WITH 1-1/4"x1-1/2" P-TRAP AND MCGUIRE H166 WHEEL HANDLE STOP VALVE. UNIT SHALL HAVE A CAPACITY OF COOLING 8 GPH TO 50 DEGREES WITH ROOM TEMPERATURE AT 90 DEGREES AND INLET SUPPLY WATER AT 80 DEGREES. UNIT SHALL BE MOUNTED HI/LOW PER ADA/TAS HEIGHT REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS. JAY R. SMITH CARRIER OR WATTS CARRIER.
<u>MS</u>	FLOOR MOUNTED MOP BASIN. STERN WILLIAMS HL-1800 TERRAZZO 24X24, CHICAGO FAUCET 897 WITH INTEGRAL STOPS, VACUUM BREAKER, WALL BRACKET PAIL HOOK AND ARM HANDLE
<u>FD</u>	FLOOR DRAIN. JR SMITH-2005-A05NB-U-P050 CAST IRON BODY WITH NICKEL BRONZE STRAINER, VANDAL PROOF SCREWS, 1/2" TRAP PRIMER AND BOTTOM OUTLET OR WATTS DRAINAGE FD-100-A, JOSAM #30000
<u>TP</u>	PRECISION PLUMBING PRODUCTS, INC. #P-1 TRAP PRIMER VALVE, 1/2" SUPPLY FROM TOP OF MAIN TO VALVE, 1/2" SUPPLY TO EACH FLOOR AND/OR HUB DRAIN, DISTRIBUTION UNIT AS REQUIRED OR WATTS DRAINAGE A-200.
<u>SA</u>	WATER HAMMER ARRESTOR. JR SMITH-5000 SERIES "HYDROTROL" ALL STAINLESS STEEL SHOCK ABSORBERS WITH PERMANENTLY SEALED CUSHION OF AIR OR GAS. PROVIDE A MINIMUM 12"x12" LOCKING ACCESS PANEL AT ALL OTHERWISE INACCESSIBLE LOCATIONS OR WATTS DRAINAGE SG-SERIES.
<u>RPBP</u>	REDUCED PRESSURE BACKFLOW PREVENTER. WATTS LF009 LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER, FURNISHED STANDARD WITH THREADED CONNECTIONS, QUARTER-TURN BALL VALVES AND Y-STRAINER, INSTALL AT 36" ABOVE FINISHED FLOOR AND EXTEND RELIEF DRAIN PIPING TO FLOOR DRAIN/SINK OR HUB DRAIN.
<u>DCBP</u>	DOUBLE CHECK BACKFLOW PREVENTER. WATTS LF007 LEAD FREE DOUBLE CHECK VALVE BACKFLOW PREVENTER, FURNISHED STANDARD WITH THREADED CONNECTIONS, QUARTER-TURN BALL VALVES AND Y-STRAINER, INSTALL AT 36" ABOVE FINISHED FLOOR.
WCO	WALL CLEANOUT. JR SMITH-4530 DUCO CAST IRON CLEANOUT TEE AND COUNTERSUNK PLUG WITH STAINLESS STEEL ROUND COVER AND SCREW OR WATTS DRAINAGE CO-480-RD.
<u>FCO</u>	FLOOR CLEANOUT. JR SMITH — 4031L DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP WITH ABS GASKET SEAL PLUG OR WATTS DRAINAGE CO—200—R.

GEN	NERAL N	<b>OTES</b>	<u>:</u>				
1.	VERIFY	ALL	MOUNTING	<b>HEIGHTS</b>	WITH	ARCHITECTURAL	DRAWINGS.

- 2. ALL LAVATORY P-TRAPS SHALL HAVE CLEANOUT PLUGS.
- 3. ALL PLUMBING FIXTURES MUST CONFORM TO CURRENT WATER CONSERVATION REGULATIONS. 4. ALL FIXTURES SHALL HAVE STANDARD FINISHES. UNLESS NOTED OTHERWISE.
- 5. PROVIDE TRAP PRIMERS TO ALL INDIRECT DRAIN CONNECTION INCLUDED FLOOR DRAINS AND HUB DRAINS.

- 6. FIXTURE SHALL COMPLY WITH ADA/TAS GUIDELINES AND ANSI A117.1 REQUIREMENTS. PROVIDE INSULATION KITS ON DRÁINS AND SUPPLIES AS REQUIRED.
- 8. WATER CLOSET FLUSH VALVE LEVER HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE STALL.

SANITARY FI	XTURE	UNITS	
TYPE OF FIXTURE	FIXTURE COUNT	WASTE FIXTURE UNITS	TOTAL WASTE FIXTURE UNITS
WATER CLOSET (TANK TYPE)	2	6	12
WATER CLOSET (FLUSH VALVE)	1	6	6
LAVATORY	2	2	4
SINK	8	2	16
ELECTRIC WATER COOLER	1	2	2
MOP SINK	1	3	3
FLOOR/HUB DRAIN	3	6	18
TOTAL FIXTURE UNITS			61

8FU = 2" WASTE PIPE  28FU = 3" WASTE PIPE  172FU = 4" WASTE PIPE  720FU = 6" WASTE PIPE	WASTE PIPING					
172FU = 4" WASTE PIPE	8FU = 2" WASTE PIPE					
	28FU = 3" WASTE PIPE					
720FU = 6" WASTE PIPE	172FU = 4" WASTE PIPE					
	720FU = 6" WASTE PIPE					
1600FU = 8" WASTE PIPE	1600FU = 8" WASTE PIPE					

### PLUMBING SYMBOLS ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE. SYMBOL DESCRIPTION EXISTING PIPING/FIXTURES/EQUIPMENT TO REMAIN EXISTING PIPING/FIXTURES/EQUIPMENT TO BE REMOVED DOMESTIC COLD WATER PIPING DOMESTIC HOT WATER PIPING DOMESTIC HOT WATER RETURN PIPING PIPING UP <del>----</del> PIPING DOWN DIRECTION OF FLOW GATE VALVE **→** BALL VALVE TEMPERATURE AND PRESSURE RELIEF VALVE **──**₹ CHECK VALVE HYDRAULIC SHOCK ARRESTOR UNION **----**|⊦----HOSE BIBB OR HYDRANT THERMOMETER GAS COCK <del>----</del>---PRESSURE REGULATING VALVE NATURAL GAS PIPING ——SS—— SANITARY SEWER PIPING GREASE WASTE PIPING ——GW—— SANITARY VENT PIPING \_ \_ \_ P-TRAP $---\infty$ FLOOR DRAIN OR FLOOR SINK WITH P-TRAP HUB DRAIN WITH P-TRAP FLOOR CLEANOUT OR GRADE CLEANOUT CLEANOUT OR WALL CLEANOUT ——TP —— │ TRAP PRIMER SUPPLY CONNECT TO EXISTING PLUMBING ABBREVIATIONS ABOVE FINISHED FLOOR ABOVE FINISHED GRADE GRADE CLEANOUT ABOVE CEILING GENERAL CONTRACTOR BELOW FLOOR HOT WATER HOT WATER RETURN HWR BELOW FINISHED FLOOR SANITARY SEWER BELOW GRADE BELOW RAISED FLOOR SANITARY VENT

CLEANOUT

COLD WATER

DOUBLE CLEANOUT FLOOR CLEANOUT

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES

VENT THRU ROOF EXISTING TO REMAIN

EXISTING TO BE RELOCATED RELOCATED FROM EXISTING



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11/28/18 City Comment - Revision No. Date REVISIONS

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> PLUMBING **SCHEDULES**

1821 Project No. Date 2018-10-29

Last Revision

REVISIONS

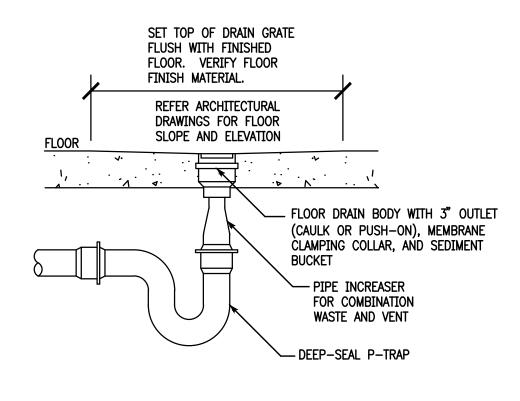
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> PLUMBING **DETAILS**

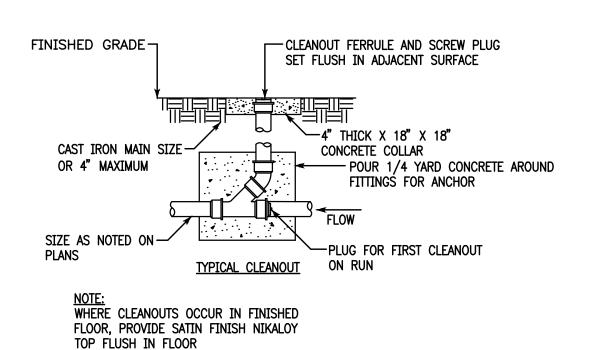
Project No. Date

1821 2018-10-29 Last Revision

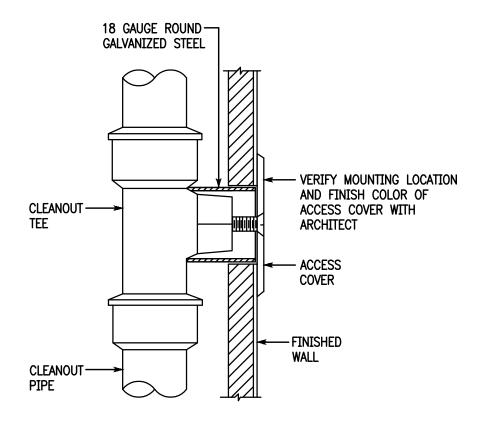


LOCATE FLOOR DRAIN WHERE SHOWN ON PLUMBING PLAN.

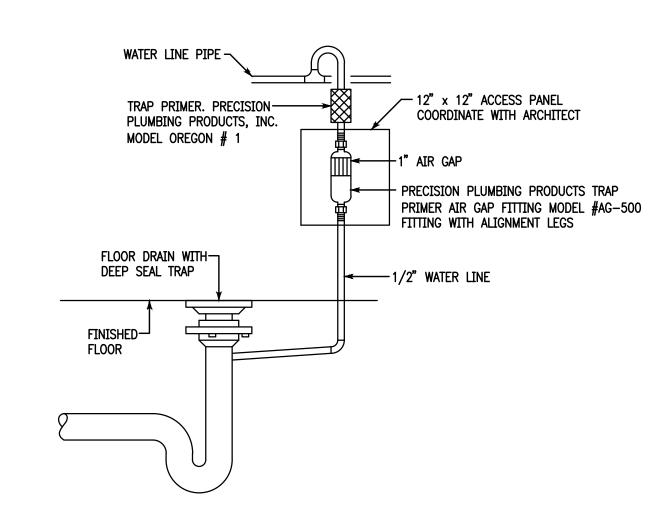
OPEN AREA FLOOR DRAIN
SCALE: NONE



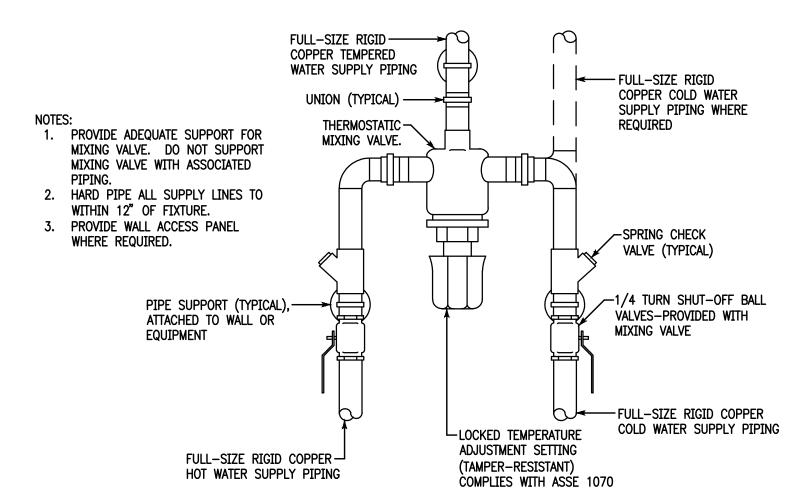
**INTERIOR CLEANOUT DETAIL** 



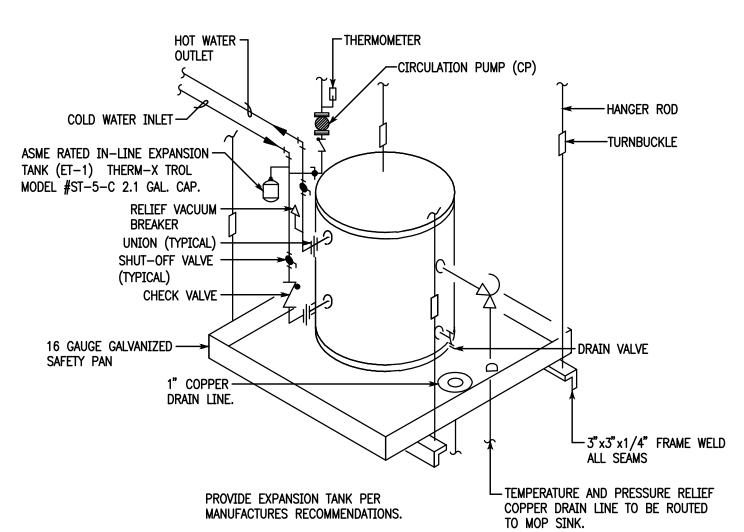
WALL CLEANOUT DETAIL
SCALE: NONE



TRAP PRIMER DETAIL
SCALE: NONE



THERMOSTATIC MIXING VALVE DETAIL



WH-1, SUSPENDED
WATER HEATER DETAIL

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES

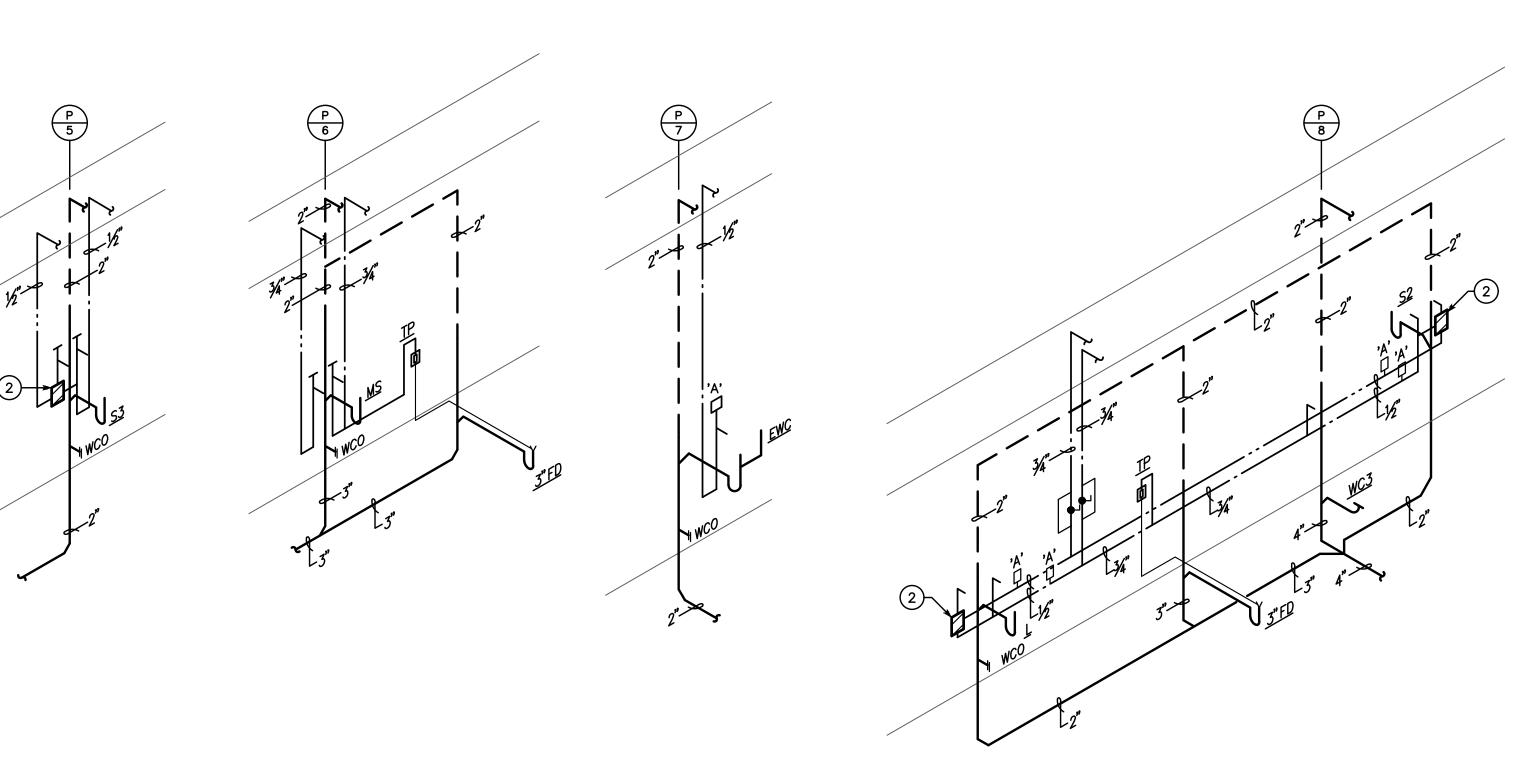


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SHOCK ABSORBERS								
MARK	FIXTURE UNITS	MANUFACTURE AND MODEL NUMBER						
SA-A	1–11	JR SMITH-5005						
SA-B	12-32	JR SMITH-5010						
SA-C	33–60	JR SMITH-5020						

## **PLUMBING NOTES:**

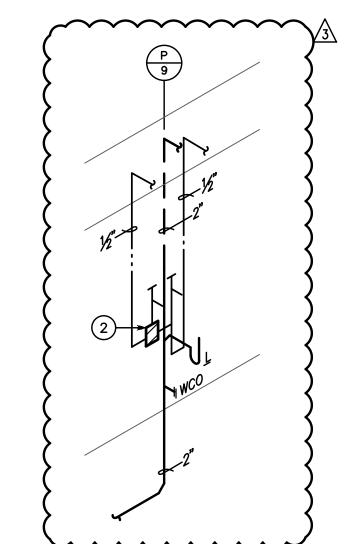
- PROVIDE 1/2" C.W. LINE WITH WATTS LF007 DOUBLE CHECK BACKFLOW PREVENTOR TO SERVE REFRIGERATOR LOCATED IN RECESSED VALVE BOX. VERIFY LOCATION, ROUTE CONCEALED.
- 2 IM, THERMOSTATIC MIXING VALVE EXPOSED UNDER FIXTURE.



PLUMBING RISER DIAGRAMS

SCALE: NONE

-1/2" DRAIN LINE FROM TRAP PRIMER (TYPICAL)



CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES



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RISER DIAGRAMS Project No.

enter 8132

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%06 02/13/19 City Comment - Revision /1\ 11/28/18 City Comment - Revision

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PLUMBING

2018-10-29 **Last Revision**