

THE WILLIAM PATERSON UNIVERSITY of NEW JERSEY WAYNE, NJ

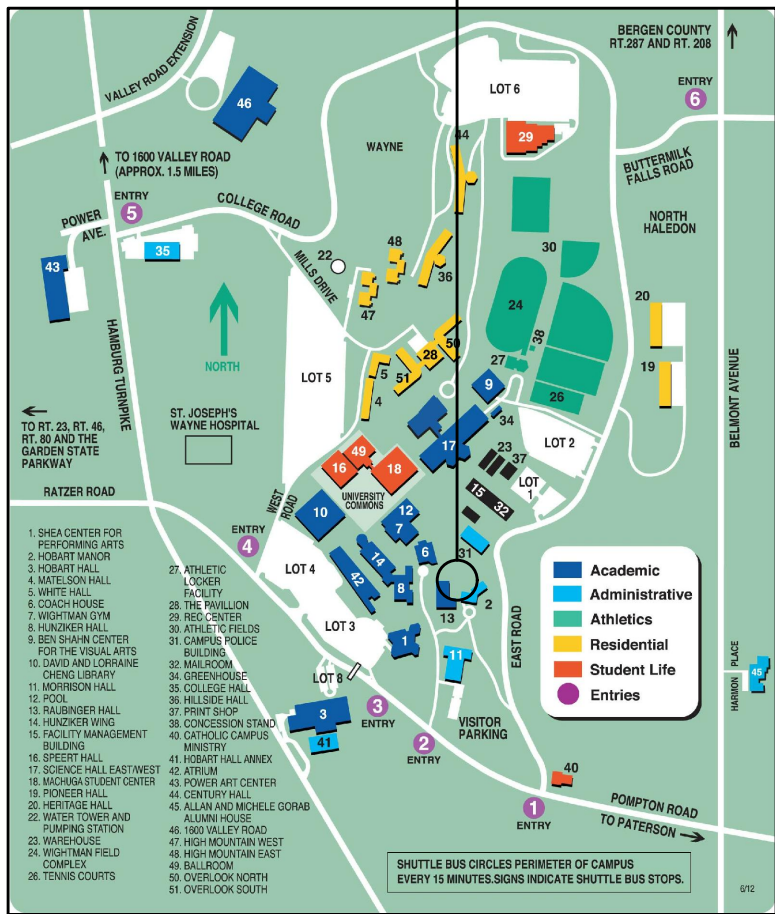
300 Pompton Road, Wayne, New Jersey 07470

UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD.
2. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW AND SURVEY EXISTING CONDITIONS TO FULLY UNDERSTAND THE SCOPE OF WORK.
3. CONTRACTOR TO COORDINATE ALL WORK WITH ALL EQUIPMENT MANUFACTURERS ROUGH-IN REQUIREMENTS.
4. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN. ALL DIMENSIONS ARE TO FINISH FACE UNLESS OTHERWISE NOTED.
5. GENERAL CONTRACTOR SHALL CAREFULLY STUDY THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND SHALL REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY OR OMISSION HE MAY DISCOVER AND SHALL NOT PROCEED WITH THE WORK UNTIL THE INTENT OF THE DOCUMENT IS VERIFIED BY THE ARCHITECT.
6. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS AND PAY ALL APPLICATION FEES.
7. THE WORK SHALL CONFORM WITH IBC 2018, AND ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
9. INSTALL 5/8" W.P. GYP. BD. AT ALL WET LOCATIONS & WONDERBOARD AT TILE LOCATIONS.
10. INSTALL G.F.I. OUTLETS AT ALL WET LOCATIONS.
11. PATCH AND REPAIR ALL SURFACES UPON REMOVAL AND DEMOLITION TO MATCH EXISTING THROUGHOUT.

PROJECT SITE



CODES

CODE (AS ADOPTED BY NJAC 5:23)

BUILDING SUBCODE (NJAC 5:23-3.14)
INTERNATIONAL BUILDING CODE/2018 NJ ED.

PLUMBING SUBCODE (NJAC 5:23-3.15)
NATIONAL STANDARD PLUMBING CODE/2018

ELECTRICAL SUBCODE (NJAC 5:23-3.16)
NATIONAL ELECTRICAL CODE (NFPA 70)/2017

BARRIER FREE SUBCODE
(CHAPTER 11 OF IBC/2015 & NJAC 5:23-7)

ICC/ANSI A117.1 - 2009

USE GROUP

BUSINESS GROUP B

CONSTRUCTION CLASSIFICATION TYPE V

CPDC FINAL NOTES

JULY 27, 2021

SITE MAP

NTS

DRAWING LIST

- A1 TITLE SHEET
- SA1 PROPOSED SITE PLAN
- SA2 SITE PLAN / DETAILS
- A2 DEMOLITION / REMOVAL PLANS
- A3 RCP, FLOOR PLANS
- A4 DETAILS
- A5 SCHEDULES
- M1 MECHANICAL SPECIFICATIONS & SCHEDULES
- M2 MECHANICAL AND PLUMBING FLOOR PLANS
- M3 MECHANICAL DETAILS AND DIAGRAMS
- E1 ELECTRICAL SPECIFICATIONS
- E2 ELECTRICAL AND POWER PLANS

- NOTE:
1. CONTRACTOR TO SUBMIT PRODUCT SPECIFICATIONS AND SAMPLES FOR ALL PRODUCTS.
 2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR RAMP AND HANDRAILS, FIRE ALARM, HVAC.

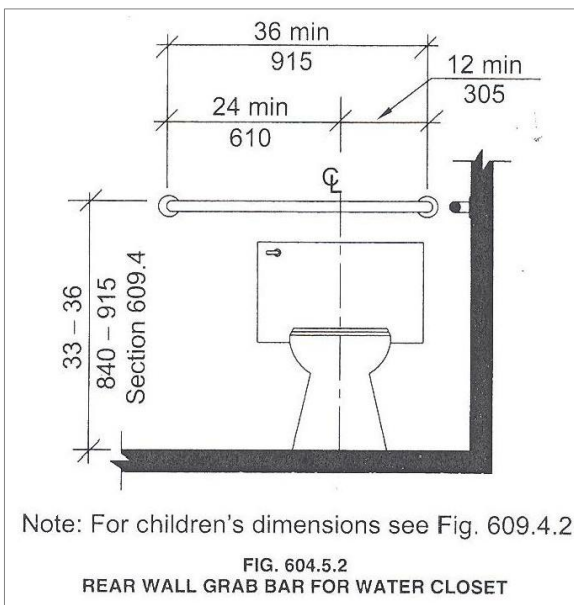
PETER JOHNSTON, ARCHITECT, PC
84 WASHINGTON STREET 2ND FLOOR
HOBOKEN N.J. 07030
N.J. LICENSE AO 13073

PROJECT: UNIVERSITY MAIN CAMPUS
CARRIAGE HOUSE
WILLIAM PATERSON UNIVERSITY
WAYNE, NJ 07470

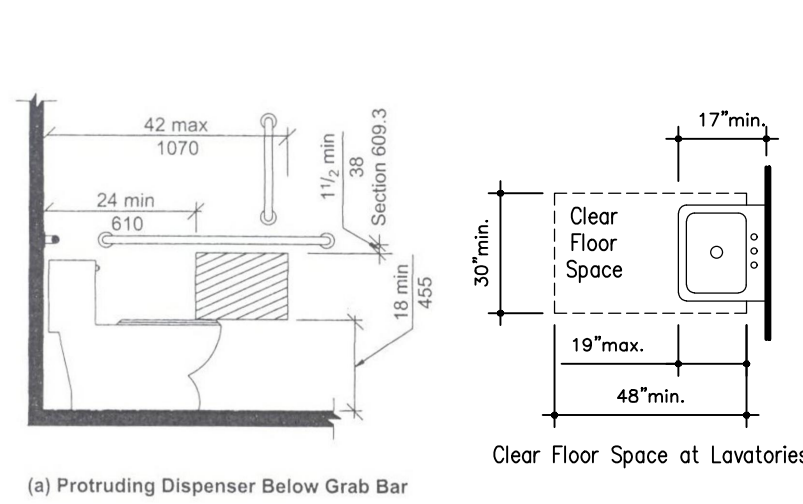
TITLE: TITLE SHEET

ZONING:	DATE: 04-27-2021
REV:	SCALE: As Noted
BID SET 07-30-2021	DRAWN BY: Y.B.
	DRAWING NO:

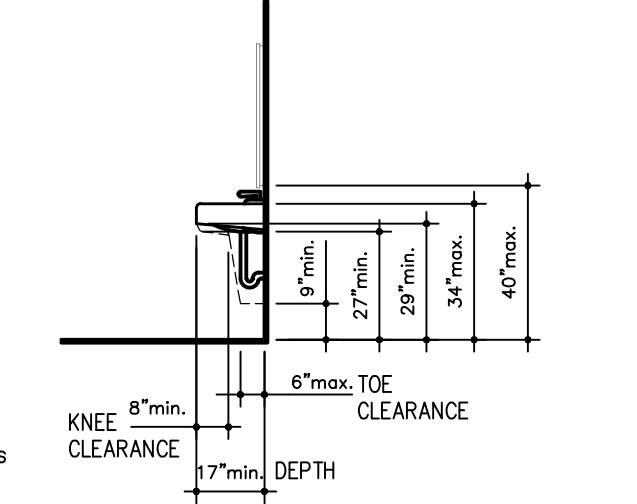
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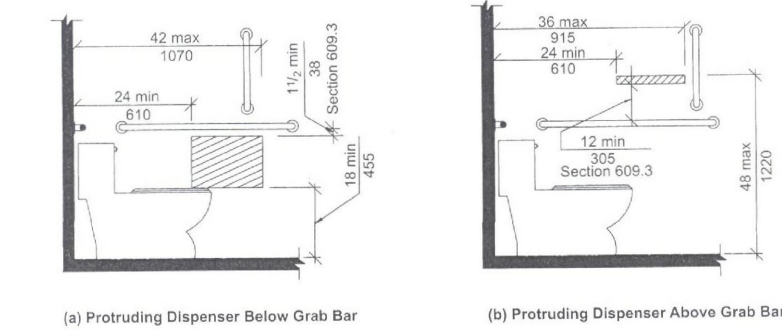
Note: For children's dimensions see Fig. 609.4.2
FIG. 609.4.2
REAR WALL GRAB BAR FOR WATER CLOSET



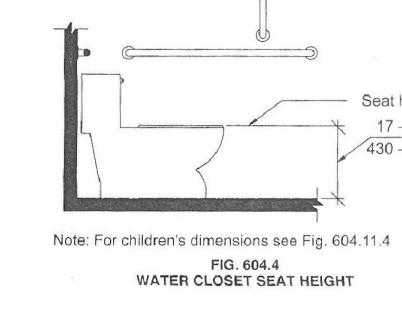
(a) Protruding Dispenser Below Grab Bar
Clear Floor Space at Lavatories



NOTE: DASHED LINE INDICATES DIMENSIONAL CLEARANCE OF
OPTIONAL CLEARANCE ENCLOSURE



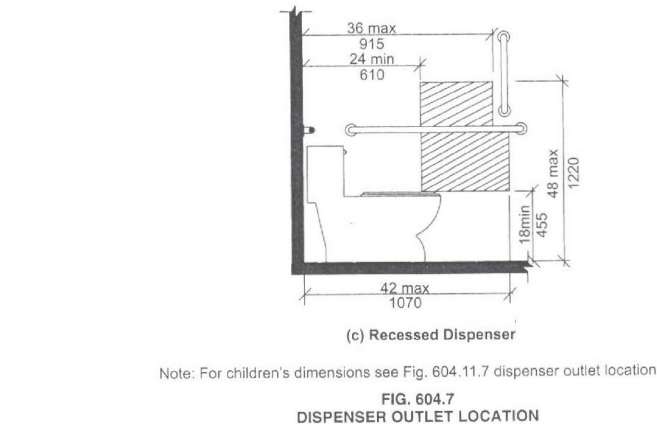
(a) Protruding Dispenser Below Grab Bar
(b) Protruding Dispenser Above Grab Bar



Note: For children's dimensions see Fig. 609.4.2
FIG. 609.4.6
WATER CLOSET SEAT HEIGHT



Note: For children's dimensions see Fig. 609.4.2
FIG. 609.4.7
SIDE WALL GRAB BAR FOR WATER CLOSET



Note: For children's dimensions see Fig. 609.4.2
FIG. 609.4.8
DISPENSER OUTLET LOCATION

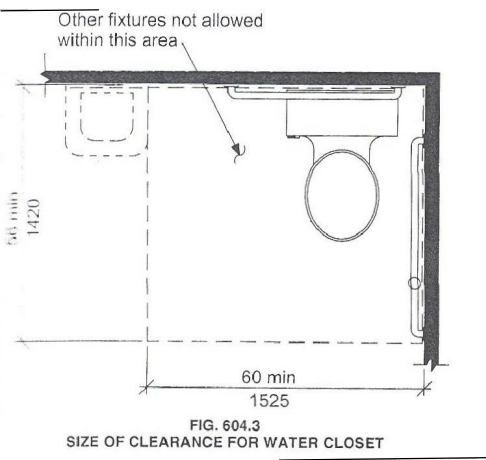
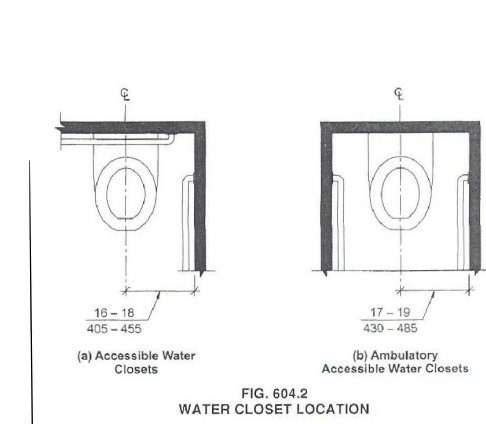


FIG. 609.4.9
SIZE OF CLEARANCE FOR WATER CLOSET



(a) Accessible Water Closet
(b) Inaccessible Water Closet

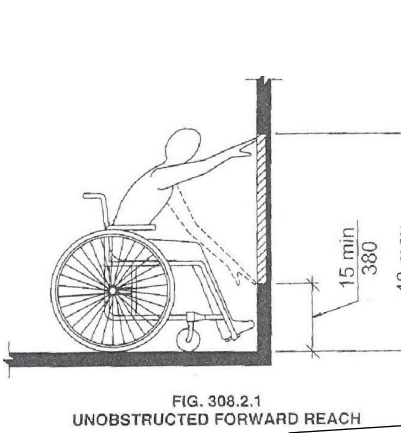


FIG. 308.3.1
UNOBSTRUCTED FORWARD REACH

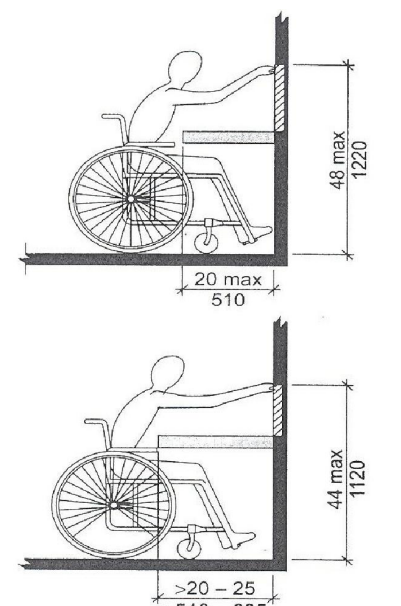


FIG. 308.3.2
OBSTRUCTED HIGH FORWARD REACH

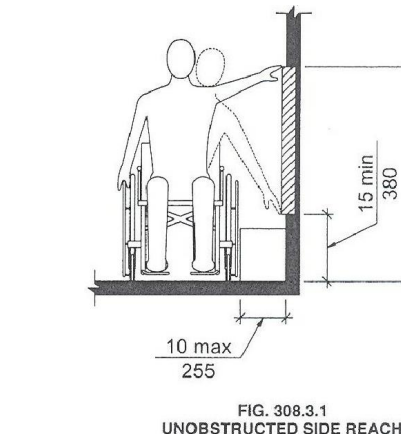


FIG. 308.3.3
UNOBSTRUCTED SIDE REACH

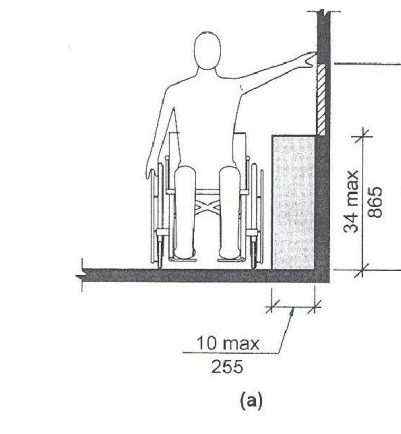


FIG. 308.3.4
OBSTRUCTED HIGH SIDE REACH

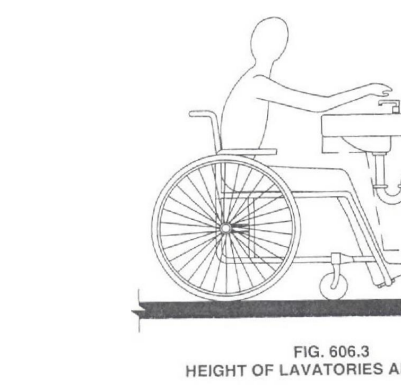


FIG. 606.3
HEIGHT OF LAVATORIES AND SINKS

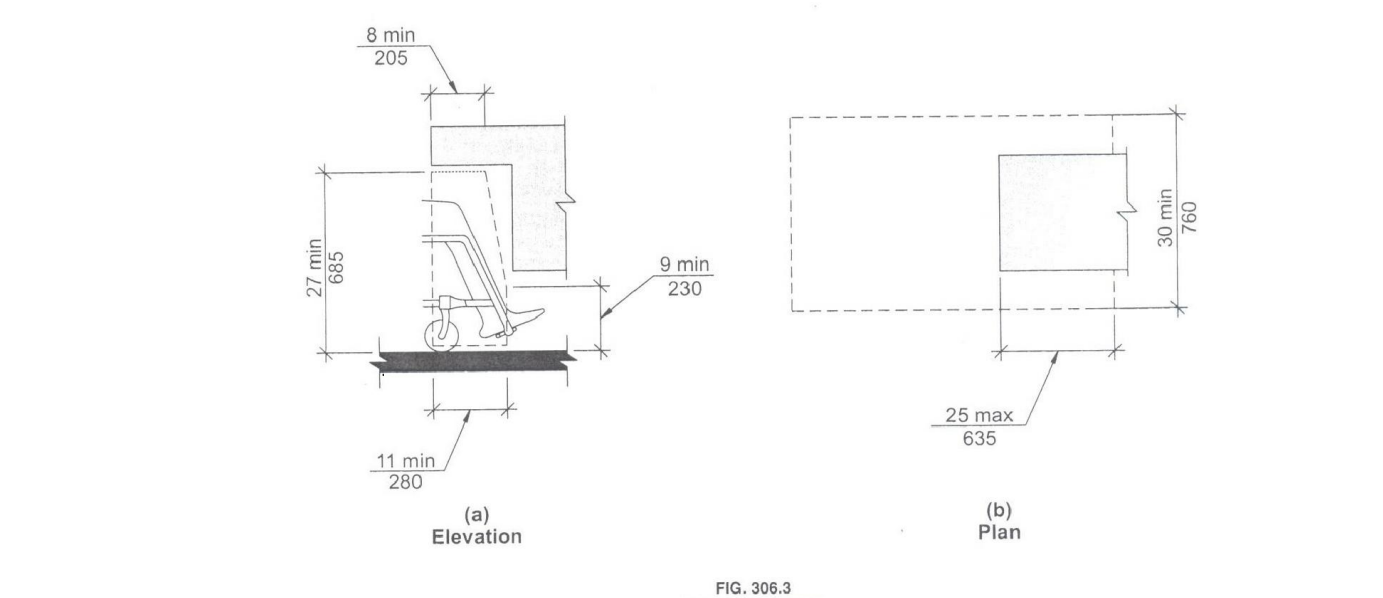
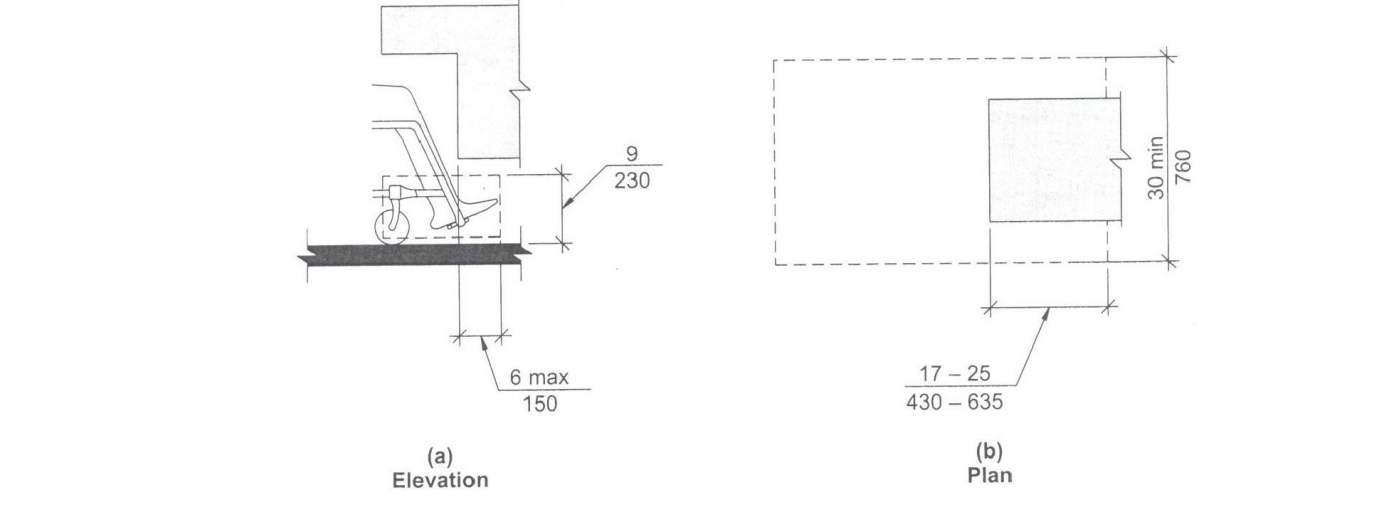
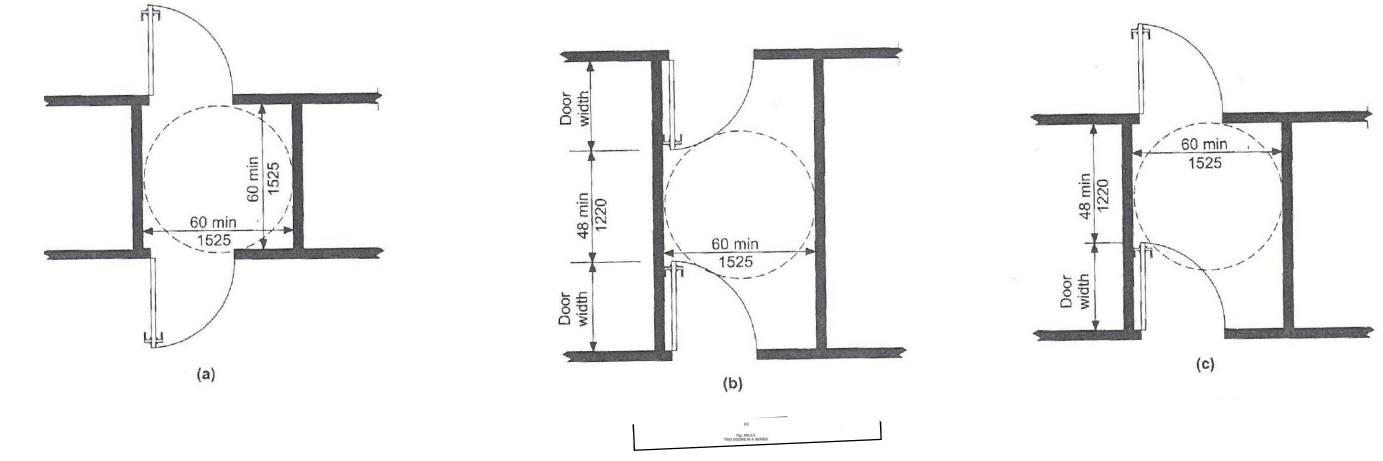
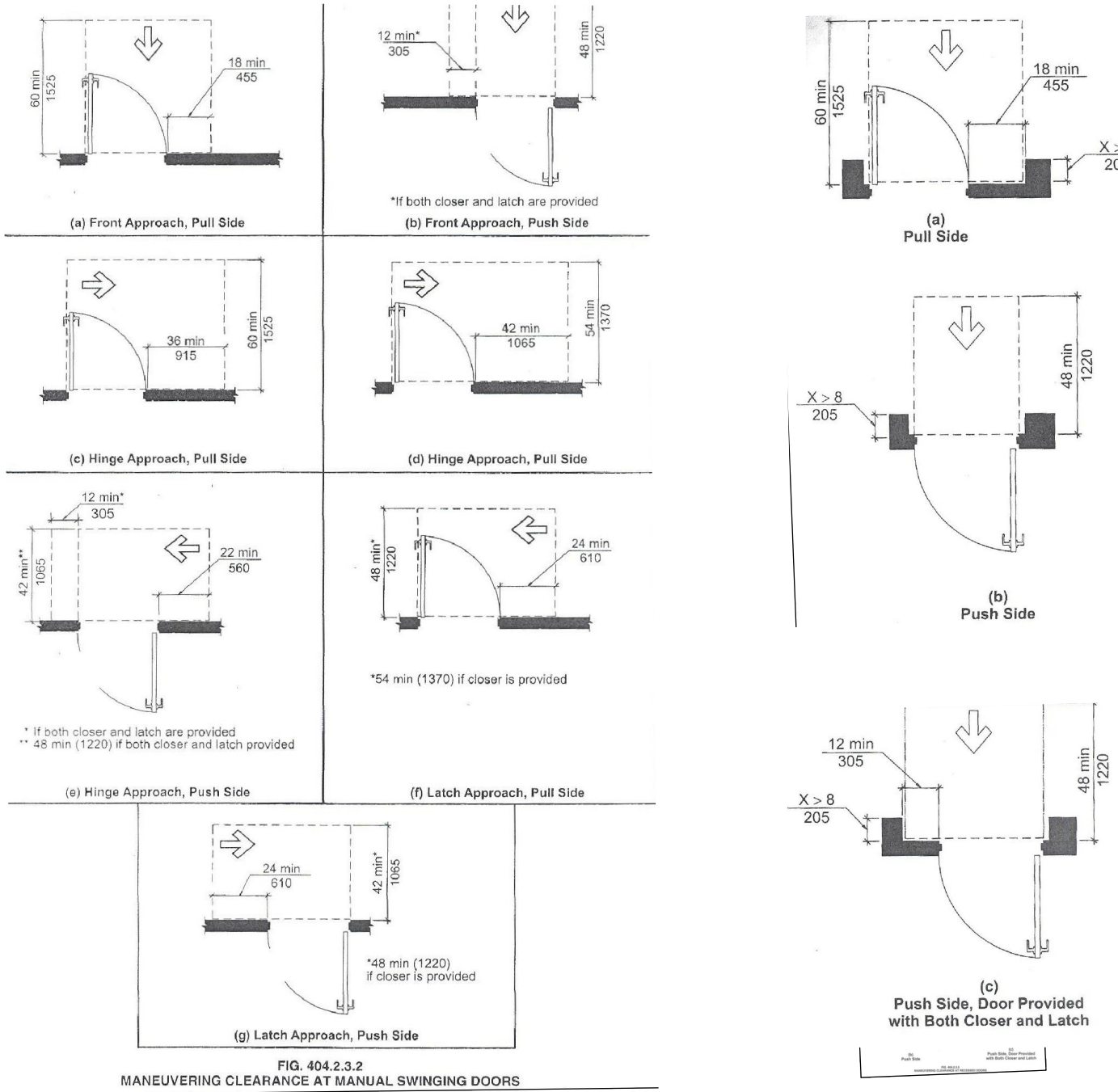
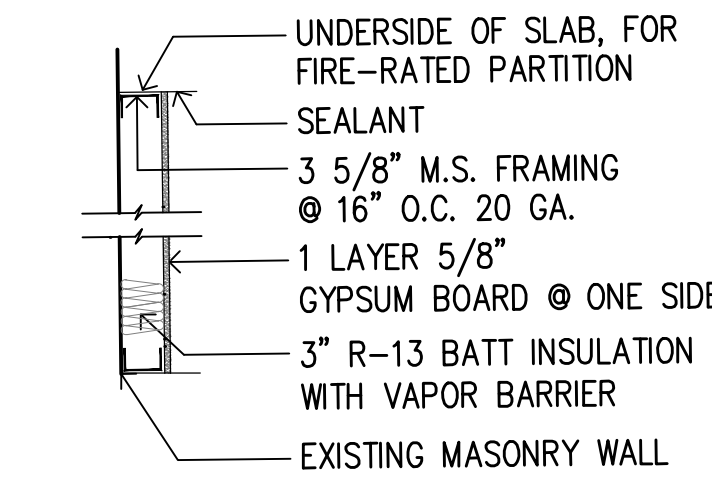


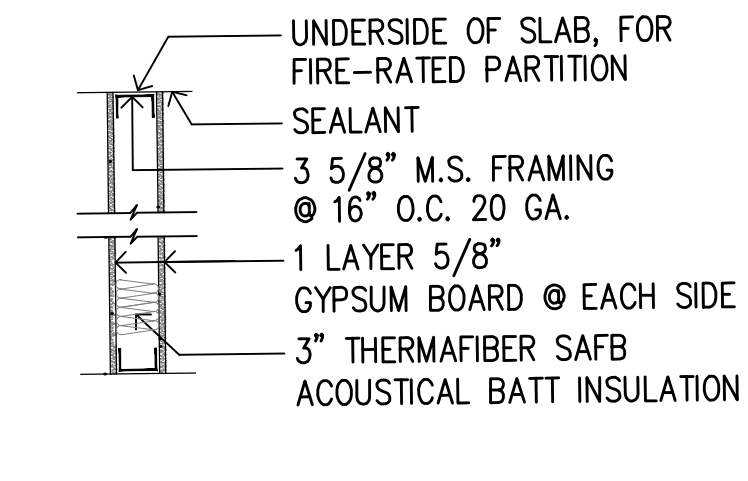
FIG. 306.3
KNEE CLEARANCE

1 ADA DETAILS

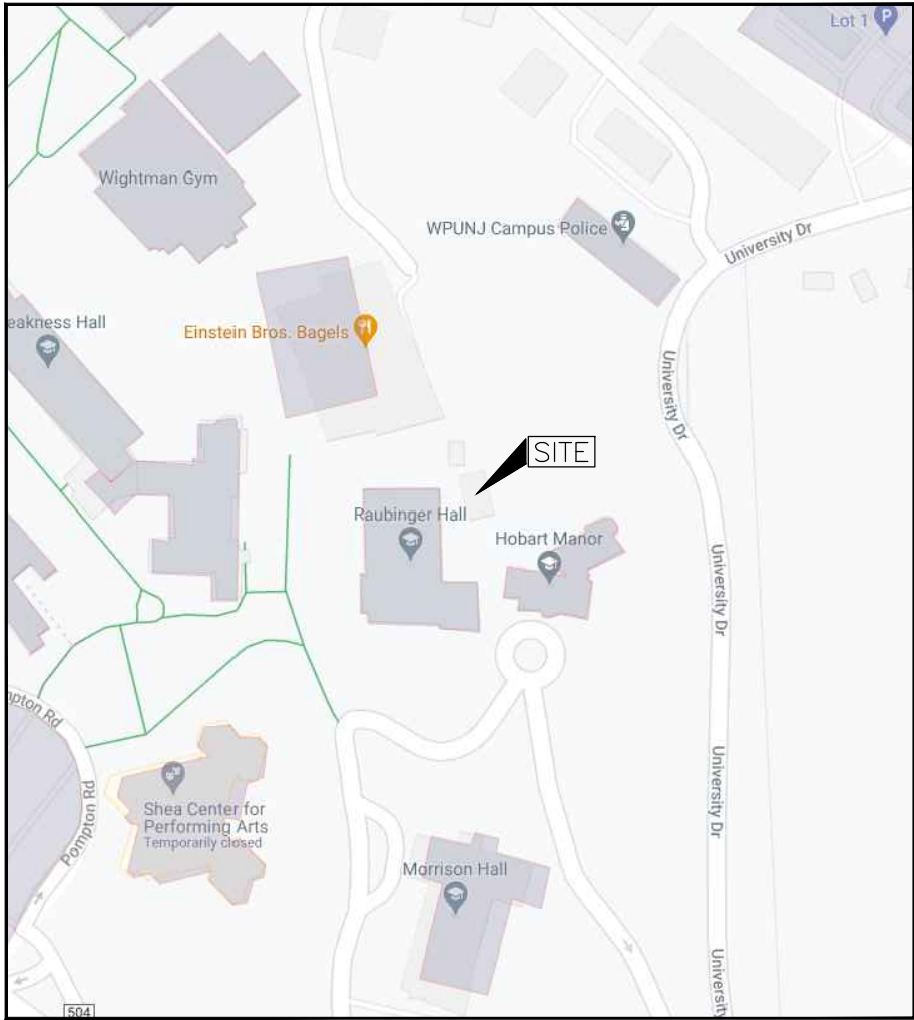
N.T.S.



TYPICAL METAL STUD PARTITION
SCALE: 3/4" = 1'-0"



TYPICAL METAL STUD PARTITION
SCALE: 3/4" = 1'-0"



LEGEND		
	EXISTING	PROPOSED
ACCESSIBLE SPACE		
CATCHBASIN		
CLEANOUT		
CONTOUR		
END SECTION		
ELECTRIC LINE		
FENCE		
FIRE HYDRANT		
GAS LINE		
GAS VALVE		
GUY WIRE		
HEADWALL		
HEADWALL W/WINGS		
LIGHT POLE		
MANHOLE		
OVERHEAD WIRES		
PIPE ELBOW		
PIPE TEE		
PIPE CROSS		
SANITARY SEWER		
STORMCEPTOR		
SIGN		
SIGN (2 POSTS)		
SPOT ELEVATION		
STORM SEWER		
TELEPHONE LINE		
TO BE REMOVED		
MOUNTABLE CURBING		
WATER LINE		
WATER VALVE		
UTILITY POLE		



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FOR FREE MARKOUTS

1-800-272-1000

NON-MEMBERS MUST BE CONTACTED DIRECTLY

OSHA 1926.651 Special Excavation Requirements
(a) Prior to opening an excavation, effort shall be made to determine whether underground installations, i.e., sewer, telephone water, fuel, electric, lines, etc., will be encountered; and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work PRIOR TO THE START OF ACTUAL EXCAVATIONS.

OUTSIDE NEW JERSEY, DE, PA, & NY
WE CAN ALSO BE REACHED
AT 1-908-232-1232



GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE COMMENCING AND FABRICATION, ORDERING ANY MATERIAL OR PERFORMING ANY WORK. HE SHALL NOTIFY THE ENGINEER OF ANY CONDITION OR DIMENSION WHICH WOULD PREVENT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. EXISTING UTILITIES BOTH OVERHEAD AND UNDERGROUND EXIST ON AND ADJACENT TO THIS SITE. EACH CONTRACTOR AND SUBCONTRACTOR IS TOTALLY RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, BOTH ON AND ADJACENT TO THE SITE AND AT BUILDING ENTRY POINTS PRIOR TO PROCEEDING WITH HIS WORK AND SHALL CALL FOR A UTILITY MARKOUT 3-BUSINESS DAYS PRIOR TO DIGGING ON SITE.
3. ACTUAL LOCATION OF UTILITIES TO BE DETERMINED BY EACH OF THE RESPECTIVE UTILITY COMPANIES AT THE TIME OF THEIR APPROVAL.
4. ALL WORK MUST CONFORM TO THE LATEST EDITION OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE, ALL APPLICABLE REGULATIONS, ALL APPLICABLE LOCAL CODES AND ORDINANCES AND THE DRAWINGS AND SPECIFICATIONS. IN CASE OF CONFLICT, COMPLY WITH THE CODE IMPOSING THE MOST STRINGENT REQUIREMENTS.
5. FOR DIMENSIONAL LAYOUT OF ROADWAYS AND PARKING AREAS, SEE PROPOSED SITE PLAN DRAWING.
6. MATERIALS SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE INDICATED:

STORM PIPES: CONCRETE PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS III, WALL "B", ASTM C76 OR C507. ROOF DRAINS SHALL BE PVC SDR 35, ASTM D3034.

SANITARY PIPE: PVC SDR 35, ASTM D3034

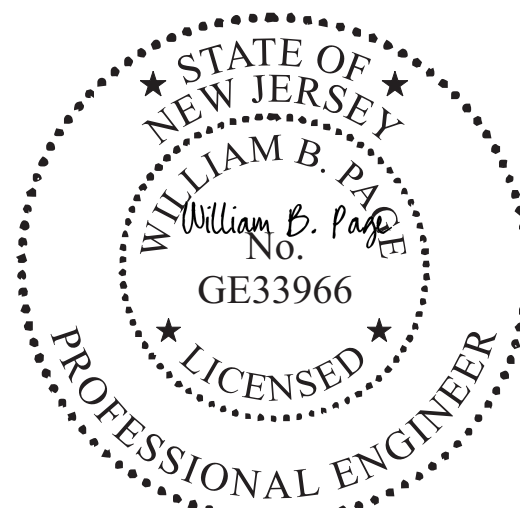
WATER PIPES: DUCTILE IRON PIPE SHALL BE CLASS 52, ANSI/AWWA C151/A21.51 W/ASPHALTIC COATING & CEMENT LINED PER ANSI/AWWA C104/A1.4. COPPER PIPE SHALL MEET ASTM B42

VALVES: MECHANICAL JOINT END VALVES

7. SANITARY SEWERS AND WATER MAINS SHALL BE SEPARATED A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER AT LEAST 18" BELOW THE BOTTOM OF THE WATER MAIN, OR SUCH OTHER SEPARATION AS APPROVED BY THE NJDEP. THE VERTICAL SEPARATION AT A CROSSING OF A SEWER AND WATER LINE SHALL BE AT LEAST 18 INCHES. WHERE THIS IS NOT POSSIBLE, THE SEWER SHALL BE ENCASED IN CONCRETE PER DETAIL OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING.
8. CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL LOCATIONS WHERE WATER LINES BEND AND/OR CHANGE DIRECTION. SEE DETAILS.
9. FOR ACTUAL LOCATION OF UTILITY CONNECTIONS INTO BUILDING, SEE BUILDING MECHANICAL PLANS.
10. ALL SANITARY SEWER APPURTENANCES SHOULD BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL SEWER DEPARTMENT AND THE MUNICIPALITY.
11. ALL NEW UTILITIES SHALL BE INSTALLED ACCORDING TO MOST RECENT APPLICABLE BUILDING AND MUNICIPAL CODES.
12. ALL UTILITY BACKFILL MATERIALS ARE SUBJECT TO REVIEW AND APPROVAL OF THE MUNICIPAL ENGINEER.
13. THE APPLICANT SHALL ENSURE THAT HOURS OF WORK ARE IN ACCORDANCE WITH LOCAL ORDINANCE.
14. THE ENTIRE AREA COVERED BY THE WORK SHALL BE MAINTAINED AND LEFT IN SUCH A MANNER AS TO NOT CREATE OR MAINTAIN A NUISANCE OR CONDITION HAZARDOUS TO LIFE AND LIMB OR TO THE HEALTH OR GENERAL WELFARE OF THE INHABITANTS.

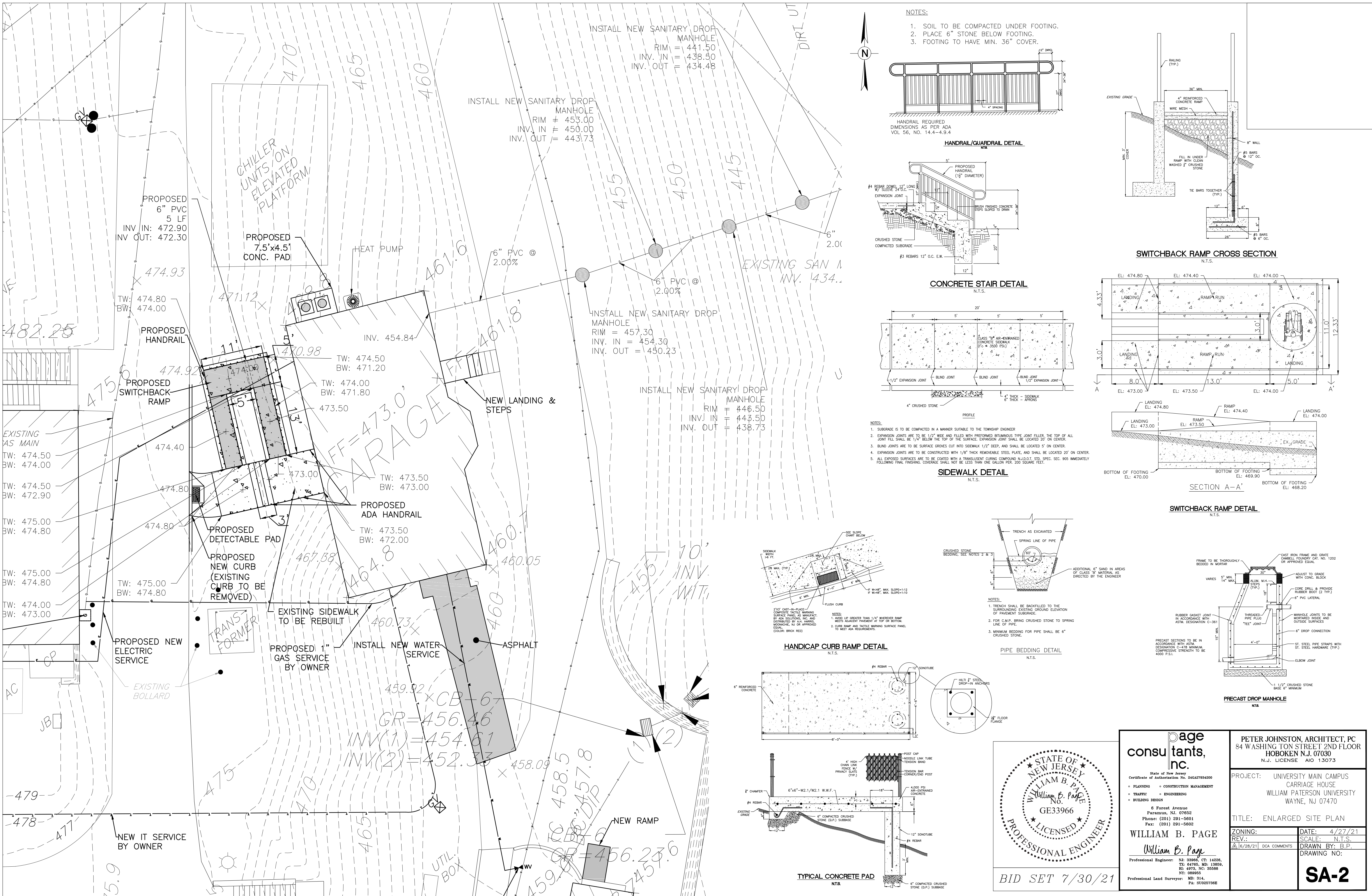
BACKFILL:

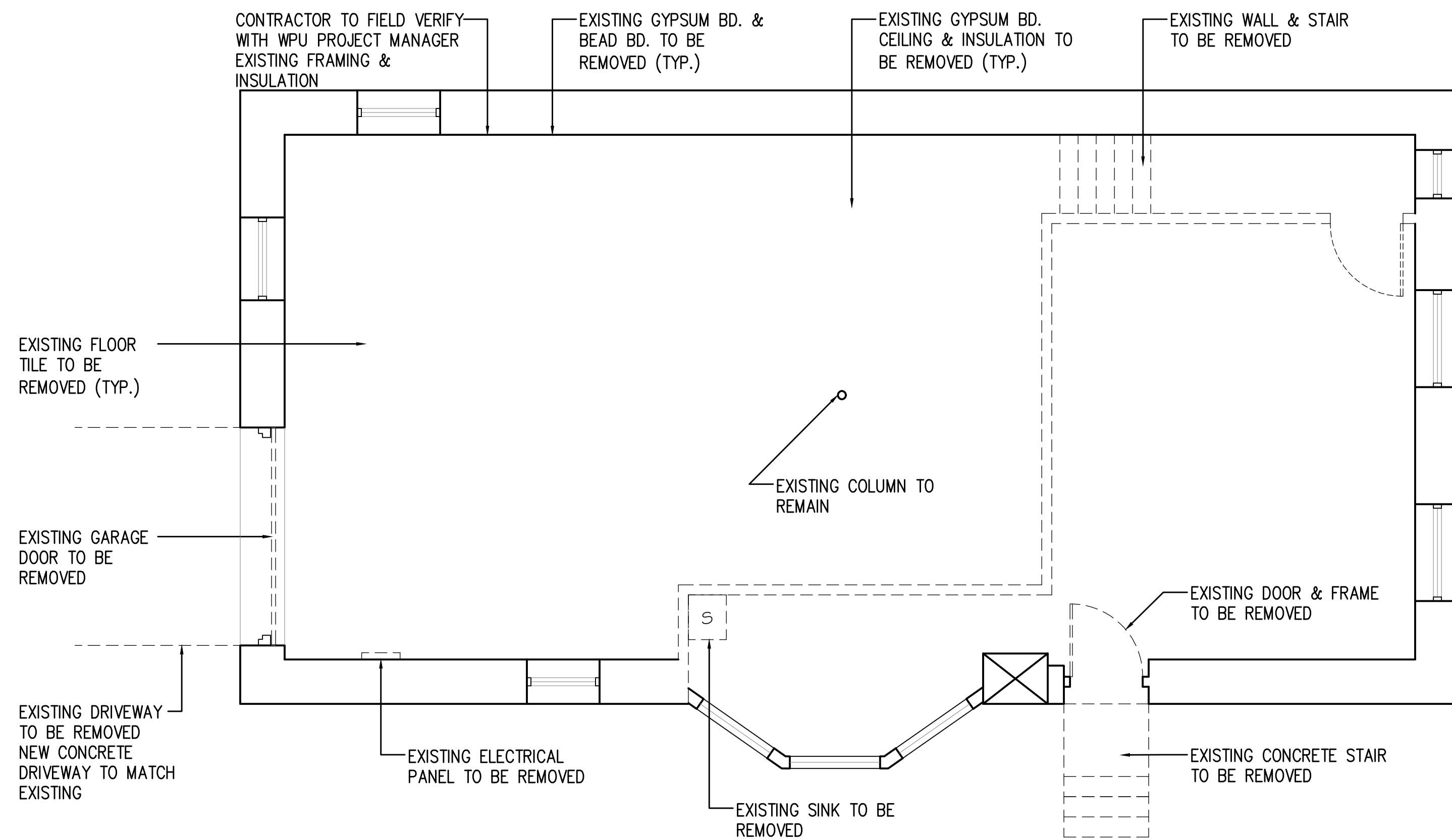
15. ALL FILL SHOULD BE PLACED IN LIFTS IN THE ORDER OF TWELVE (12) INCHES IN LOOSE THICKNESS AND IT SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR DENSITY VALUES DERIVED BASED UPON ASTM D-1557-93 TEST PROCEDURE. IN ADDITION, BACKFILL SOILS PLACED IN CONFINED AREAS, SUCH AS FOUNDATION OR UTILITY EXCAVATIONS, SHOULD BE SPREAD IN LIFTS IN THE ORDER OF SIX TO EIGHT INCHES IN LOOSE THICKNESS AND BE COMPACTED TO THE SAME DEGREE USING MANUALLY OPERATED VIBRATORY COMPACTION EQUIPMENT.
16. ALL CONTRACTORS PROVIDING FILL TO THE SITE WILL BE REQUIRED TO PROVIDE EVIDENCE OF THE SOURCE OF THE FILL TO BE BROUGHT TO THE SITE AND CERTIFY THAT IT IS CLEAN. A COPY OF THE CERTIFICATION SHALL BE PROVIDED TO THE TOWNSHIP ENGINEER.
17. ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ANY FILL MATERIALS BROUGHT TO THE SITE.



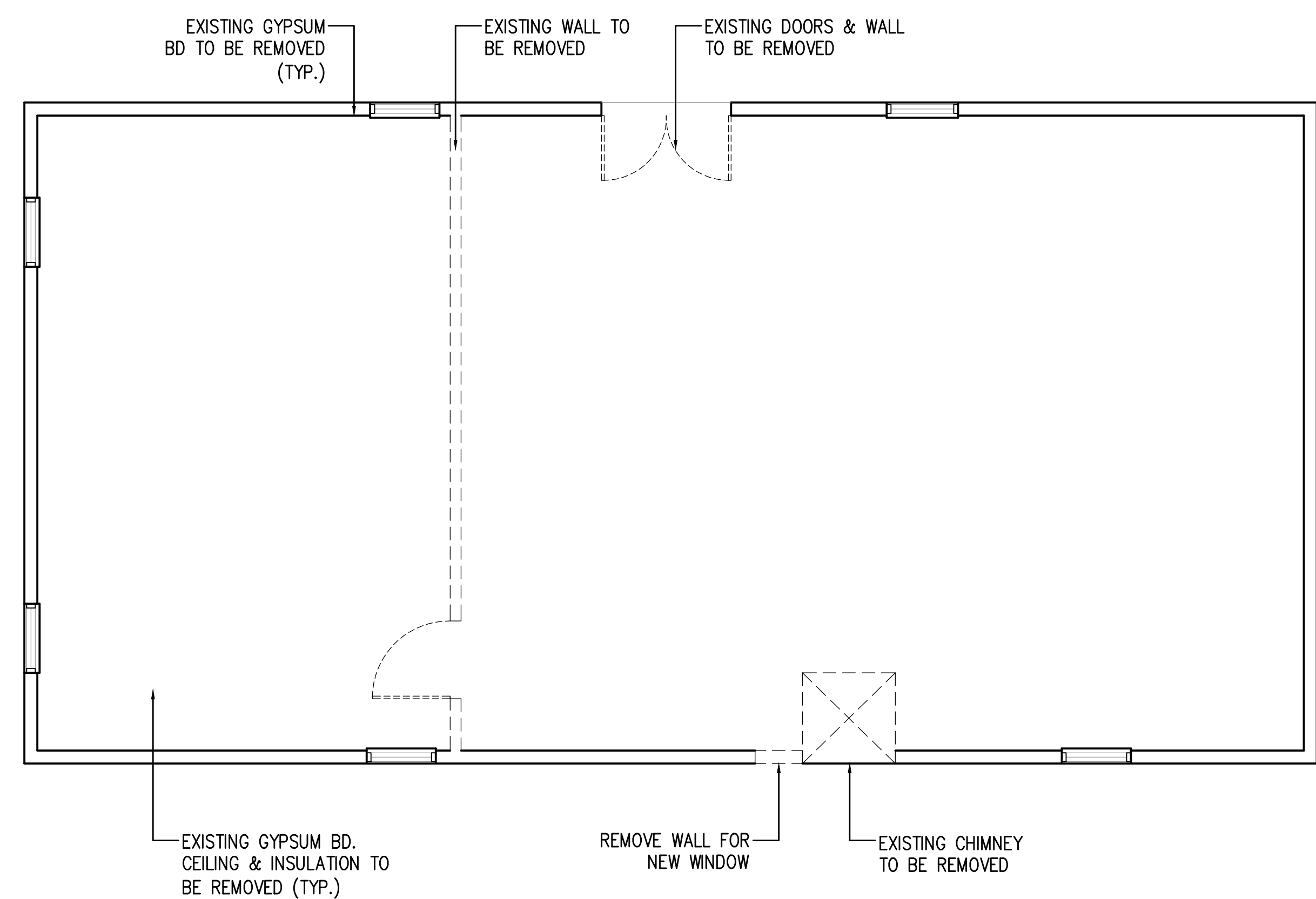
BID SET 7/30/21

Page consultants, inc. State of New Jersey Certificate of Authorization No. 346A7P934800 • PLANNING • CONSTRUCTION MANAGEMENT • TRAFFIC • ENGINEERING • BUILDING DESIGN 6 Forest Avenue Paramus, NJ 07652 Phone: (201) 291-5601 Fax: (201) 291-5602 WILLIAM B. PAGE Professional Engineer NJ: 33966, CT: 14228, TX: 64765, MD: 13865, RI: 44975, NC: 30588 NY: 08965 Professional Land Surveyor: MD: 314, PA: S1026736E		PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE AIO 13073	
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470		TITLE: PROPOSED SITE PLAN	
ZONING: REV: 1/6/28/21 DCA COMMENTS		DATE: 4/27/21 SCALE: 1"=15' DRAWN BY: B.P. DRAWING NO:	
		SA-1	



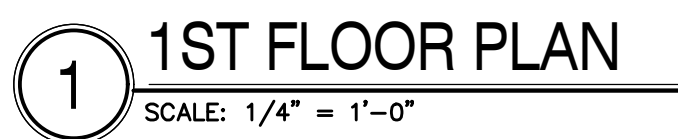


1 DEMOLITION PLAN- FLOOR 1
SCALE: 1/4" = 1'-0"

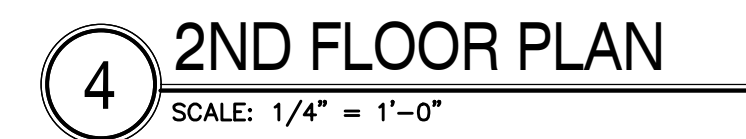


2 DEMOLITION PLAN- FLOOR 2
SCALE: 1/4" = 1'-0"

PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE AIO 13073	
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470	
TITLE: DEMOLITION / REMOVAL PLANS	
ZONING:	DATE: 04-27-2021
REV.:	SCALE: As Noted
BID SET 07-30-2021	DRAWN BY: Y.B.
	DRAWING NO:
A2	



3 REFLECTED CEILING PLAN- FLOOR 2
SCALE: 1/4" = 1'-0"



MATERIAL SCHEDULE

FLOORING

DAL TILE CC 0T01
 FINISH: TEXTURED
 SIZE: 6" X 6"
 INSTALLATION: MUDSET
 NOTE: PREPARE FLOOR WITH SELF-LEVELING
 CONCRETE
 BASE: COVE BASE AT PERIMETER TYP.

FLOORING

INTERFACE STUDIO SET LVT TILE A007
 SIZE: 9.8" X 39.3"
 COLOR: A00702 PEWTER
 INSTALLATION: ADHESIVE ON 1 LAYER $\frac{5}{8}$ "
 PLYWOOD SUBFLOOR OR CONCRETE IN ACCORDANCE
 WITH MANUFACTURERS RECOMMENDATIONS
 BASE: RUBBER COVE BASE AT PERIMETER TYP.

FLOORING

AMERICAN OLEAN CC67, ELEGANT GRAY GLAZED
PORCELAIN
FINISH: MATTE
SIZE: 12" X 12"
BASE: PROVIDE ALCOVE BASE

WALL TILE

AMERICAN OLEAN 66SAM 0091, BISCUIT
FINISH: MATTE
SIZE: 6" X 6"
BASE: BULLNOSE & CORNER BULLNOSE
CEILING

ARMSTRONG

SIZE: 2'-0" X 2'-0" X 1"
INSTALLATION: SUSPENSION SYSTEM PRELUDE 15/16"
SQUARE LAY IN
FINISH: SMOOTH TEXTURE

PAINT (CEILINGS)

1ST COAT: BENJAMIN MOORE ULTRA
SPEC 500 INTERIOR LATEX PRIMER N534
2ND COAT: BENJAMIN MOORE ULTRA SPEC 500
INTERIOR LATEX FLAT N536
3RD COAT: BENJAMIN MOORE ULTRA SPEC 500
INTERIOR LATEX FLAT N536

PAINT (OFFICE WALLS/ COMMON AREAS)

1ST COAT: BENJAMIN MOORE ULTRA SPEC 500
INTERIOR LATEX PRIMER N534
2ND COAT: BENJAMIN MOORE ULTRA SPEC 500
INTERIOR LOW SHEEN N537
3RD COAT: BENJAMIN MOORE ULTRA SPEC 500
INTERIOR LOW SHEEN N537
PROVIDE 2'-0" X 2'-0" MOCK UP FOR OWNER
APPROVAL

PAINT (KITCHEN WALLS)

1ST COAT: BENJAMIN MOORE ULTRA
SPEC 500 INTERIOR LATEX PRIMER N534
2ND COAT: COROTECH ACRYLIC EPOXY V450
3RD COAT: COROTECH ACRYLIC EPOXY V450
PROVIDE 2'-0" X 2'-0" MOCK UP FOR OWNER
APPROVAL

PAINT (METAL)

1ST COAT: BENJAMIN MOORE SUPER
SPEC HP ACRYLIC METAL PRIMER P04
2ND COAT: BENJAMIN MOORE ULTRA SPEC 500
INTERIOR LATEX GLOSS N540
3RD COAT: BENJAMIN MOORE ULTRA SPEC 500
INTERIOR LATEX GLOSS N540

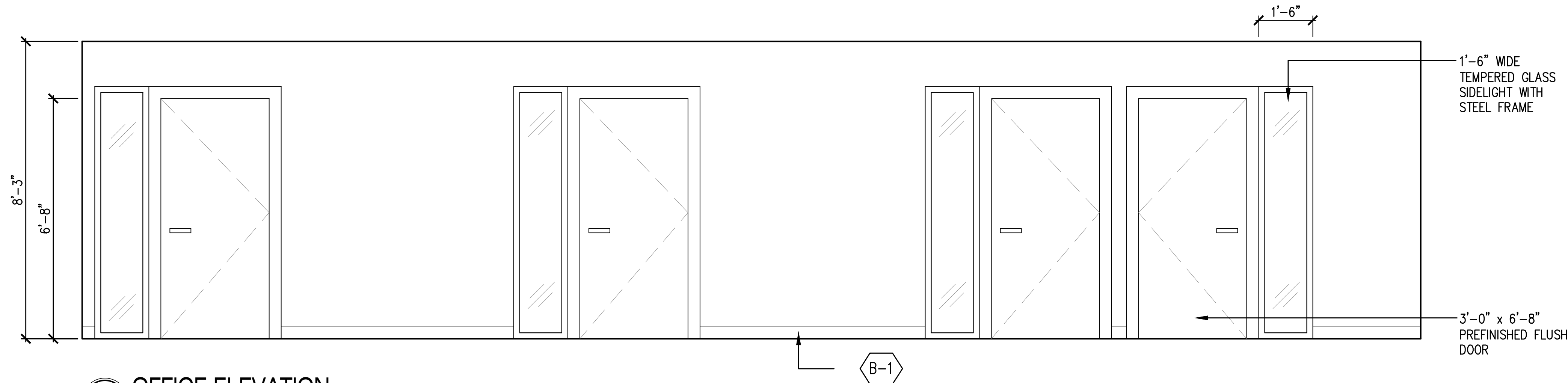
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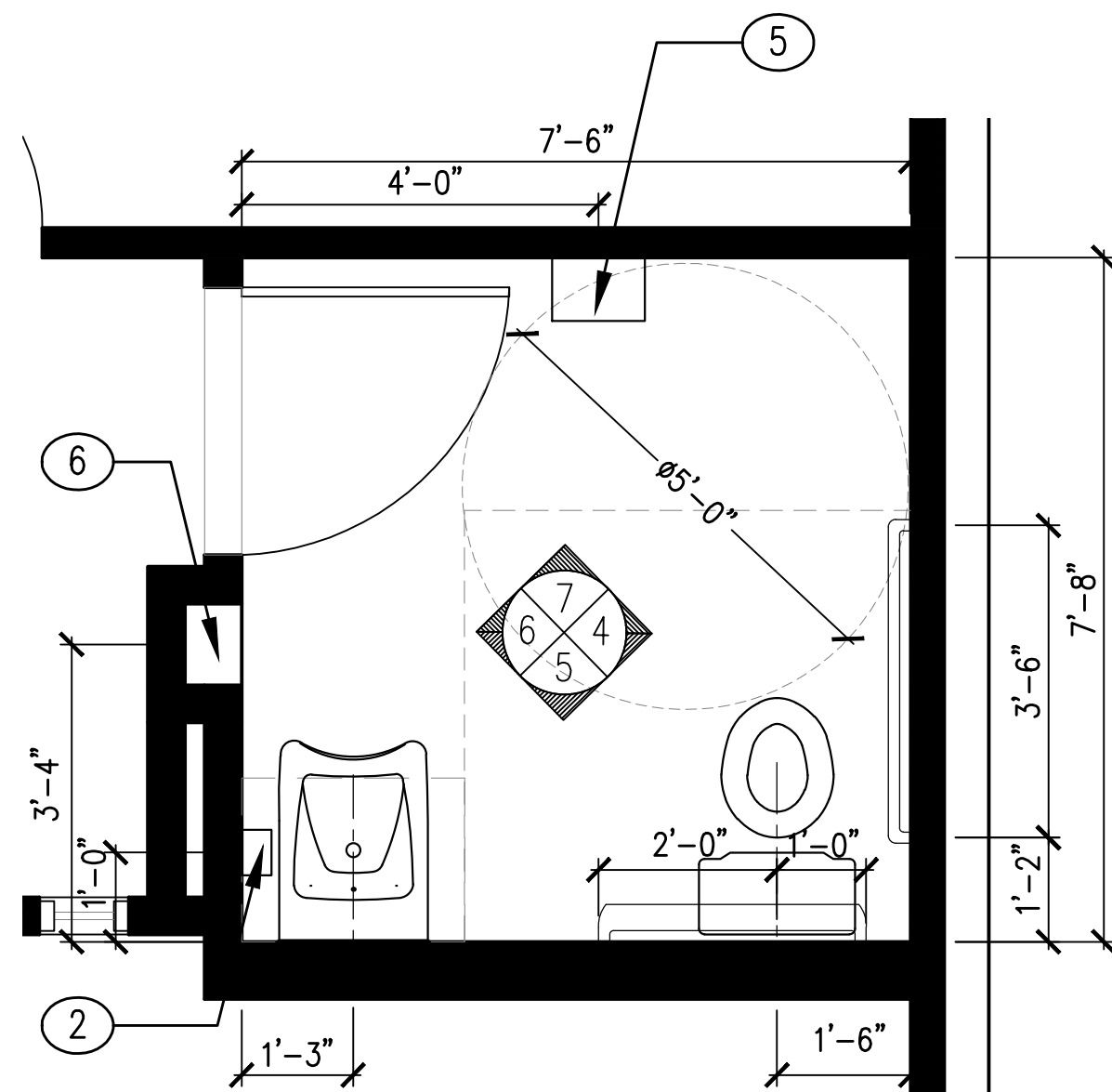
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FLOOR PLANS

ZONING:	DATE: 04-27-202
REV.:	SCALE: As Note
BID SET 07-30-2021	DRAWN BY: Y.F DRAWING NO:

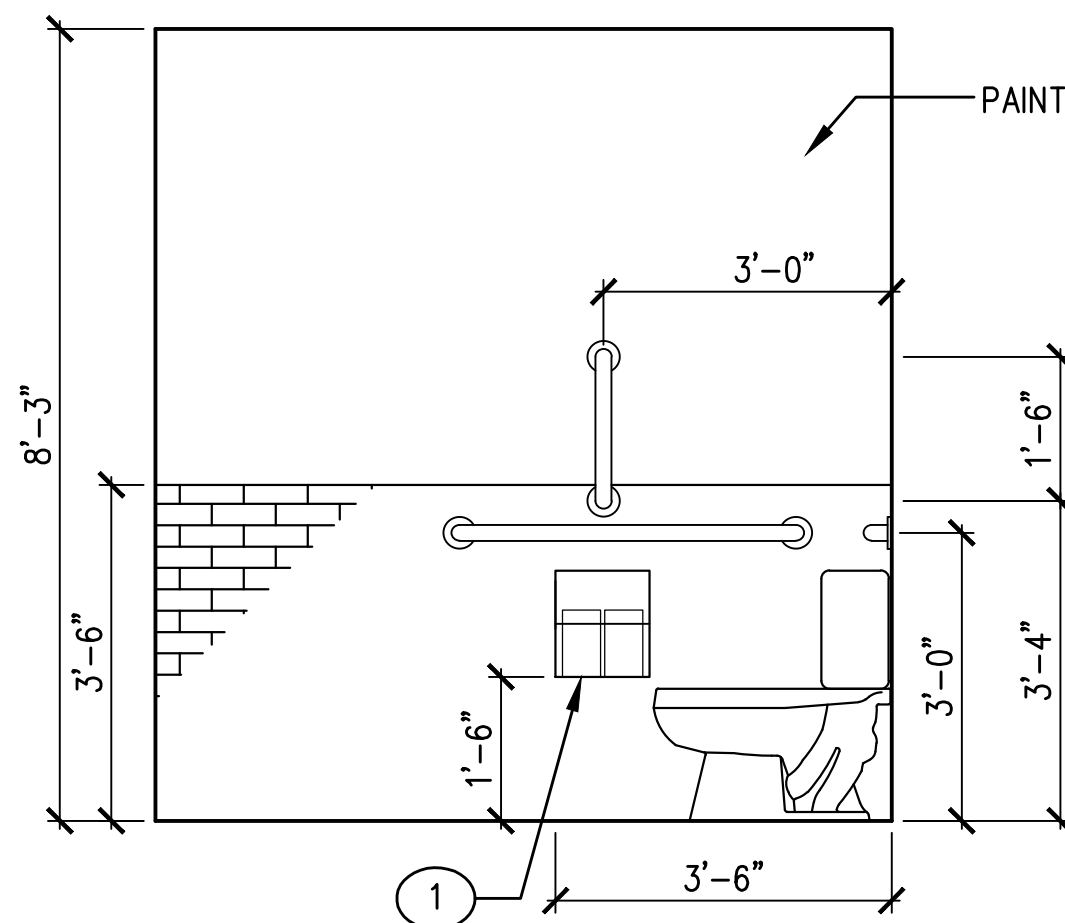
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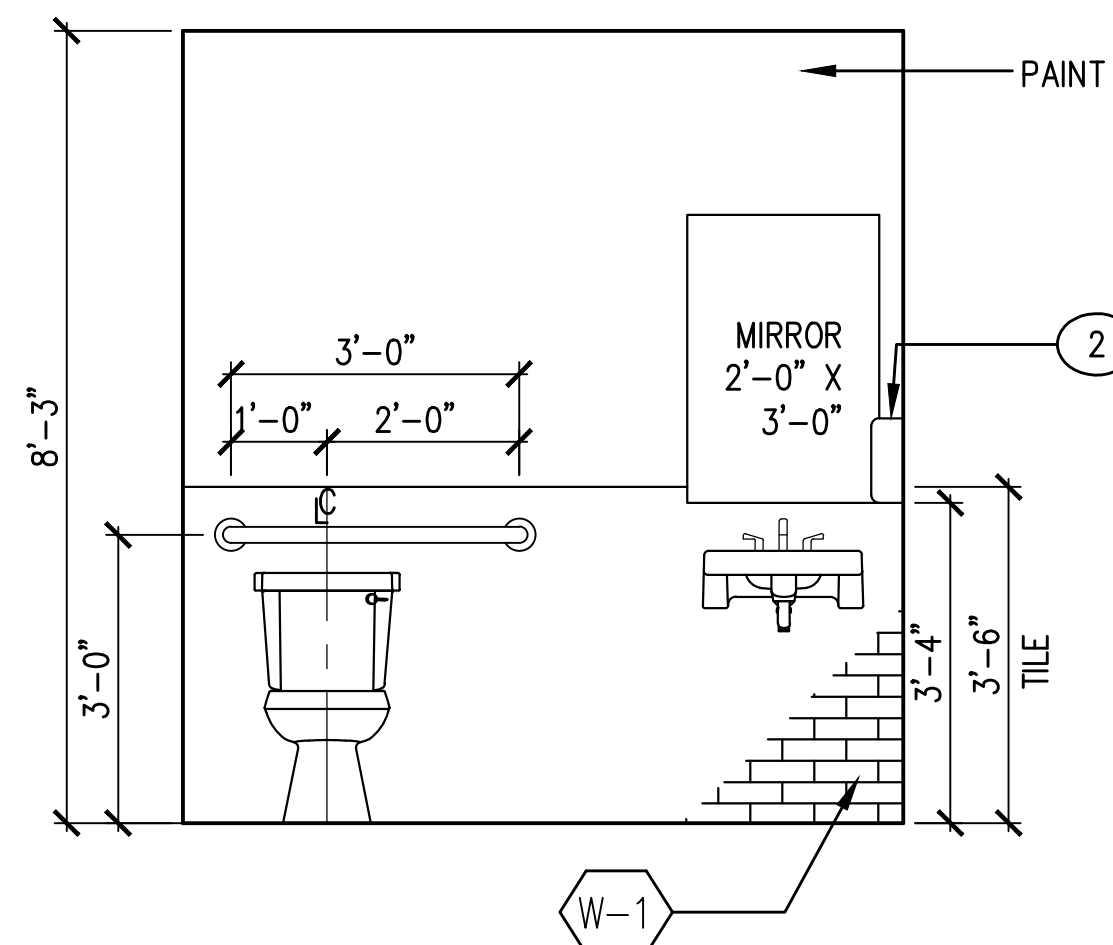
1 OFFICE ELEVATION
SCALE: 1/2" = 1'-0"



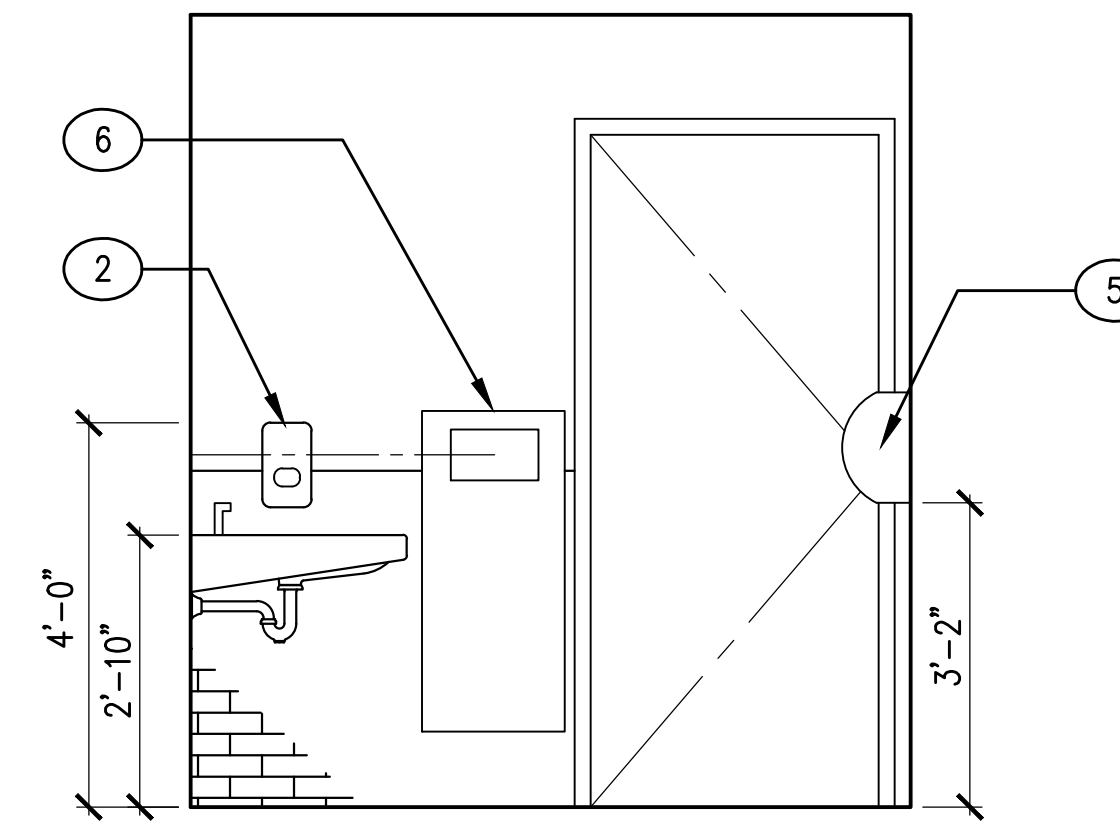
2 TYPICAL ADA BATHROOM PLAN
SCALE: 1/2" = 1'-0"



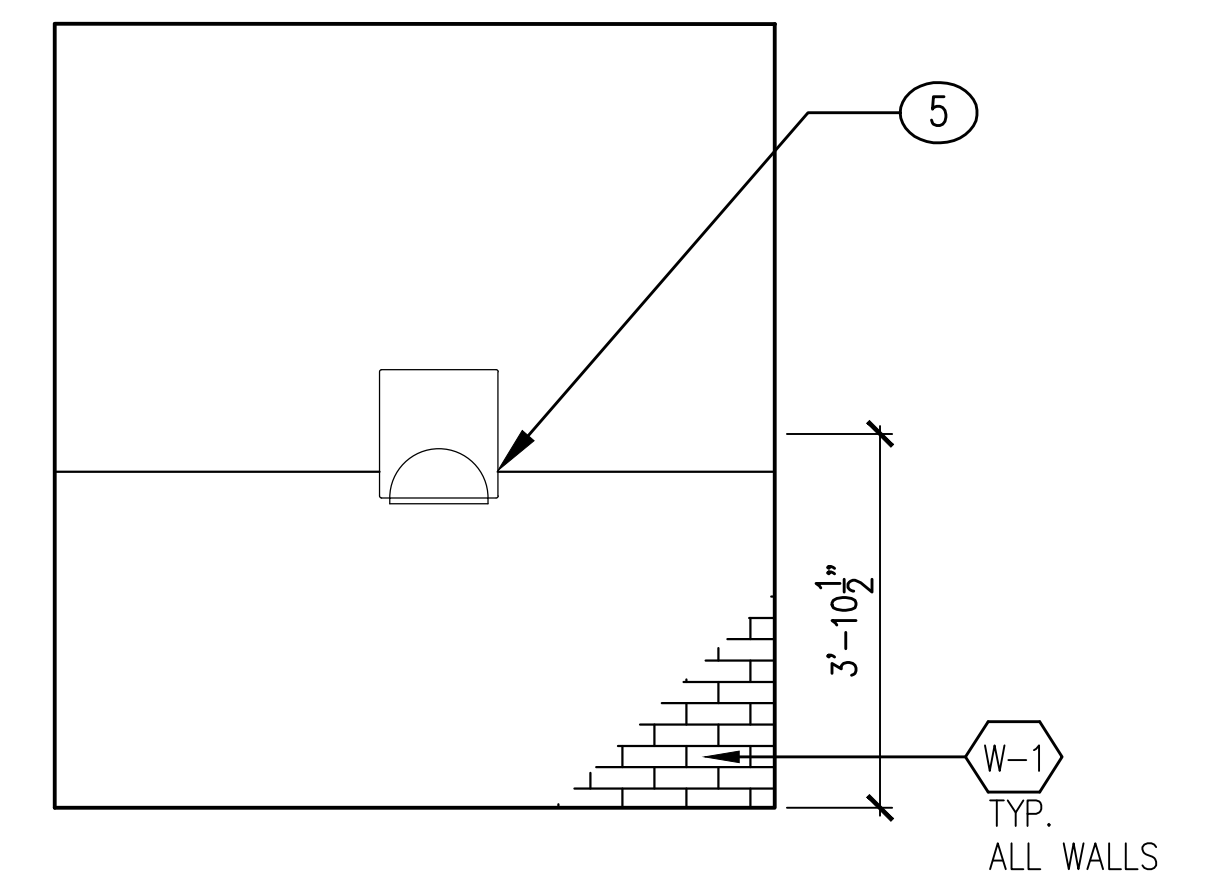
3 TYPICAL ADA BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"



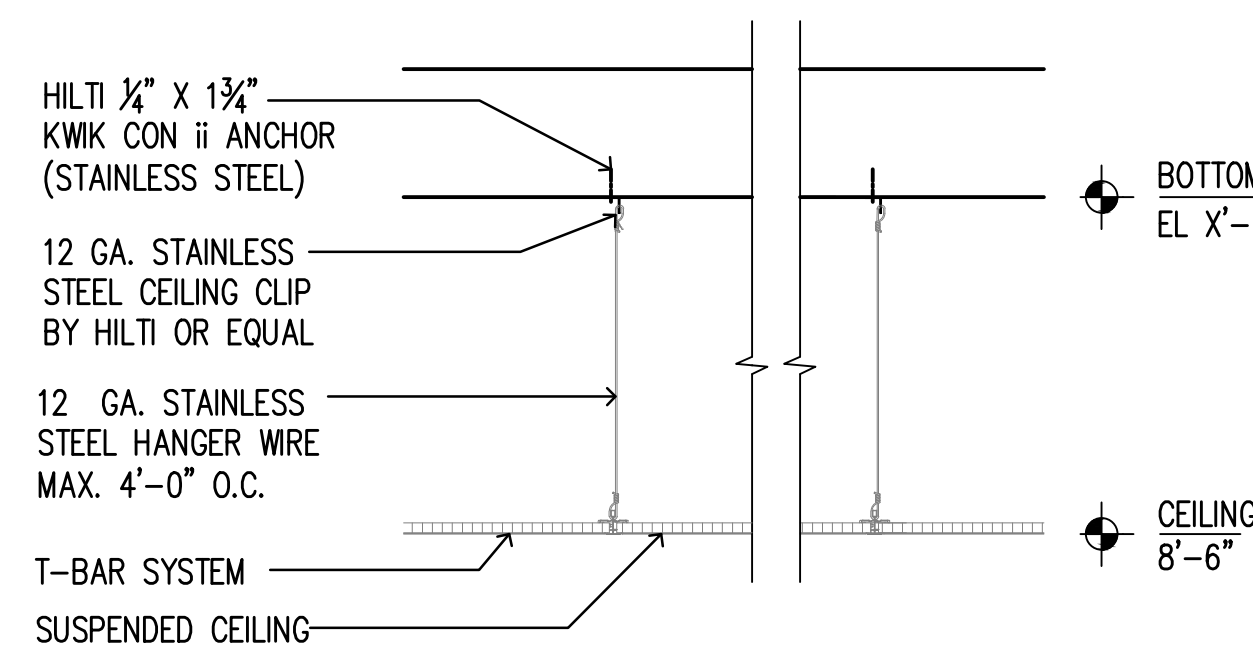
4 TYPICAL ADA BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"



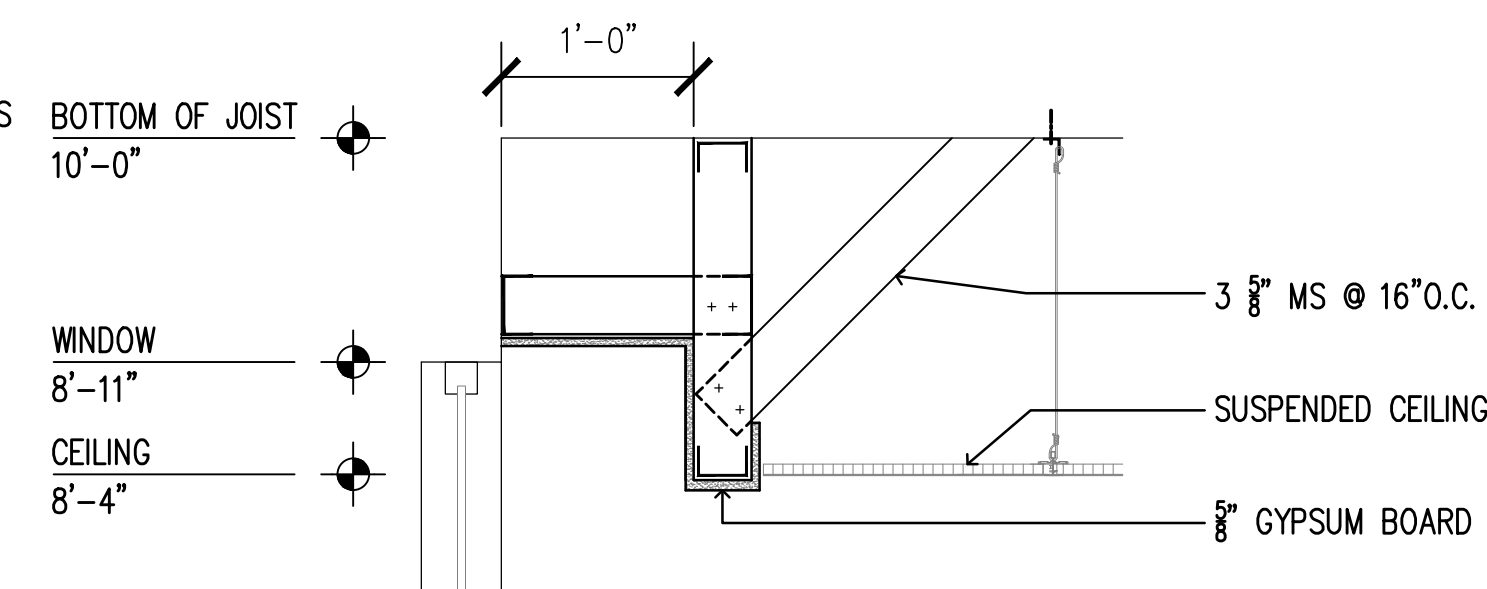
5 ADA BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"



6 TYPICAL ADA BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"



7 CEILING DETAIL (TYPICAL)
SCALE: 1" = 1'-0"



8 WINDOW POCKET DETAIL
SCALE: 1" = 1'-0"

PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE AIO 13073	
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470	
TITLE: DETAILS	
ZONING:	DATE: 04-27-2021
REV.:	SCALE: As Noted
BID SET 07-30-2021	DRAWN BY: Y.B.
	DRAWING NO:

A4

PLUMBING FIXTURE / ACCESSORIES SCHEDULE		
NO.	ITEM	DESCRIPTION
1	TOILET PAPER DISPENSER	GP COMPACT QUAD TRANSLUCENT SMOKE VERTICAL FOUR ROLL CORELESS TISSUE DISPENSER, ITEM #56744
2	SURFACE MOUNTED SOAP DISPENSER	GOJO TFX TOUCH FREE SOAP DISPENSER, DOVE GRAY, MODEL #2740-12.
3	SURFACE MOUNTED FRAMELESS MIRROR	
4	1 1/4" DIAM. STAINLESS STEEL GRAB BARS (VERIFY ALL SIZES)	1 1/4" CONCEALED MOUNTING, STRAIGHT GRAB BAR, PEENED GRIP, BY BOBRICK OR EQUAL.
5	AUTOMATIC PAPER TOWEL DISPENSER	ENMOTION IMPULSE 8" 1-ROLL AUTOMATED, TOUCHLESS PAPER TOWEL DISPENSER BY GEORGIA PACIFIC, TRANSLUCENT SMOKE, ITEM #59498
6	WASTE PAPER DISPOSAL	BOBRIC TIRIMLINE RECESSED WASTE RECEPTACLE, B-35643
7	TOILET	K-3979-RA-0, K-4636, K-5420, K-9379, 1023457, 1265114, K-237, INCLUDE ALL COMPONENTS BY KOHLER OR EQUAL.
8	SINK	MORNINGSIDE K-12638, INCLUDE ALL PRODUCTS & ACCESSORIES BY KOHLER OR EQUAL.
9	HANDS FREE FAUCET	3362119, SF-2350-BAT-TEE-CP-0.5GMP-MLM-1R-FCT BY SLOAN OR EQUAL.
10	MIRROR	¾" FLOAT GLASS, TRIPLE SILVER PLATED WITH ELECTRO-COPPER PLATED LAYER & THERMOSETTING INFRARED CURED PAINT PACKING WITH POLYGLAZE FINISH.
		THE FRAMES SHOULD BE ONE PIECE ROLLED STAINLESS STEEL, ANNEALED FINISH (BRIGHT), INCLUDES WALL HANGER, 18 GAUGE COLD ROLLED STEEL ALL WELDED, MIRROR GLASS SHOULD BE MANUFACTURED IN ACCORDANCE WITH ASTM C 1036, ADA COMPLIANT

TILE SCHEDULE					
NO.	MANUFACTURER	ITEM NAME/ COLOR	TYPE	SIZE	FINISH
F-1	DALTILE	QUARRY TEXTURES CC 0T01 DIABLO RED WITH COVE BASE 5"x8"	QUARRY	6"x6"x½"	TEXTURED
F-2	AMERICAN OLEAN	CC67, ELEGANT GRAY	GLAZED PORCELAIN	12"x12"	MATTE
W-1	AMERICAN OLEAN	66SAM 0091, BISCUIT	GLAZED CERAMIC	6"x6"	GLOSSY

NOTE: PROVIDE ALL REQUIRED BULLNOSE AT TOP AND CORNERS.

DOOR SCHEDULE					
DOOR NO.	SIZE	TYPE	FRAME	RATING	HARDWARE
1.0	3'-0" X 6'-8"	A	2	—	2
2.0	3'-0" X 6'-8"	B	1	—	4
3.0	3'-0" X 6'-8"	C	3	45 MIN	3
4.0	3'-0" X 6'-8"	D		—	3
5.0	(2) 3'-6" X 6'-8"	E	3	—	1
6.0	3'-0" X 6'-8"	B	1	—	3

DOOR A – PREFINISHED SOLID CORE WOOD DOOR, 5 PLY CONSTRUCTION, 1-3/4" THICK, MATCHING HARDWARE, WIDTH = 1" TO 1-¾", PREFINISHED OAK VENEER PLAIN SLICED RED OAK STANDARD STAIN (SS1) (SS2). CONTRACTOR TO SUBMIT (SS1) (SS2) COLOR CHART. BY TRUDOOR, GRAHAM DOORS OR EQUAL.

DOOR B – SIMILAR TO "DOOR A". FLUSH DOOR, NO FULL LITE GLASS.

DOOR C – 1-¾" FIRE RATED MINERAL CORE WOOD DOOR, 45 MIN WITH FIRE RATED DOOR FRAME. PREFINISHED WITH PLAIN SLICED RED OAK VENEER, STANDARD STAIN (SS1) (SS2) BY TRUDOOR, GRAHAM DOORS OR EQUAL.

DOOD D – JEN WELD SMOOTH FIBERGLASS EXTERIOR DOOR, 2 PANEL EURO PAINTED, COLOR BY ARCHITECT, AURALAST WOOD FRAME.

DOOR E – 16 GAUGE STEEL STIFFENED DOOR ST SERIES DOOR BY MESKER OR EQUAL. PREFINISHED – COLOR BY ARCHITECT.

FRAME 1 – 3 PIECE KNOCKED DOWN DRYWALL FRAME 16 GAUGE COLD ROLLED STEEL, 2" JAMB AND HEAD FACES, EXACT DIE MITE CORNER CONNECTIONS. 14 GAUGE DOOR CLOSER REINFORCEMENT, FACTORY-APPLIED BAKED ON RUST INHIBITING PRIMER BY STEELCRAFT, MESKER, TRUDOOR OR EQUAL.

FRAME 2 – STEEL SIDELITE DOOR FRAME 16 GAUGE, WELDED WITH 12" GLASS SIDE LIGHT, ½" TEMPERED GLASS. ⅝" GLASS STOPS. FACTORY-APPLIED RUST INHIBITING PRIMER BY STEELCRAFT, TRUDOOR OR EQUAL.

FRAME 3 – 16 GAUGE WELDED STEEL FRAME, WITH FACTORY APPLIED RUST INHIBITING PRIMER BY MESKER, OR EQUAL. FIRE RATED AS INDICATED.

LOCKSET 1: A 12V POWER SUPPLY WITH 8 RELAYS (SECURITRON AQD4-8F8R2), A REQUEST TO EXIT BUTTON READING, EMERGENCY EXIT AT ADA HEIGHT (SECURITRON EEB2), 2 MAG LOCK INTEGRATED PIR (SECURITRON M680 EBDX), ACCESS CONTROL BANANA CABLE BACK TO CLOSET.

LOCKSET 2: (6) SETS CORBIN RUSSWIN ML 2051 NSA-626 KEYWAY 77A1.

LOCKSET 3: ACCESS CONTROL MORTISE LOCKSETS PROVIDED BY OWNER & INSTALLED BY CONTRACTOR IN220-ML20133-IPS-B-NSA-626. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING WIRE FROM DATA CLOSET TO DOOR FRAME TO LOCKSET MECHANICAL ROOM CLOSER BY LCN.

LOCKSET 4: (2) SETS CORBIN RUSSWIN ML 2030 NSA 626 KEYWAY 77A1.

NOTE: ALL HINGES 4 ½" BALL BEARING HINGES.

CARRIAGE HOUSE WARMING KITCHEN EQUIPMENT				
NO.	NAME	MODEL	UTILITIES	QTY.
1	TABCO 3-COMP. SINK	FC-3-1818-18RL	H & C WATER	1
2	BUNN COFFEE MAKER	53400.010	C WATER, 120 ²⁰ / ₄₀ , 25 AMP	1
3A	EAGLE WORKTABLE 8'	T3096EB	NONE	5
3B	EAGLE WORKTABLE 4'	T2448EB	NONE	1
4	CNTRTOP INDUCTION TRAY	GIR18	1800W, 120V	4
5	PROOFING CABINET	C519-CFC-4	120V, 12AMP, 1440W	3
6	DISHWASHER UNDRCNT.	F-180P	H WATER, 208 ²⁰ / ₄₀ , 4550W, 22.3 AMP	1
7	ICE MAKER	KM-901MW1	C WATER, 208V-230V, 10 AMP	1
8	WALL MOUNT HAND SINK	HS-14	H & C WATER	1
9	3-DOOR SS REFRIGERATOR	TS-72-HC	115/60/1V, 15 AMP	1
10	METRO SHELVING 24"x60"		NONE	5

PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE NO 13073	
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470	
TITLE: SCHEDULES	
ZONING:	DATE: 04-27-2021
REV.:	SCALE: As Noted
BID SET 07-30-2021	DRAWN BY: Y.B. DRAWING NO: A5

MECHANICAL AND PLUMBING SPECIFICATIONS

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE INDUSTRY STANDARD. ALL MATERIALS AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED.
- B. ALL APPLICABLE CODES, LAWS AND REGULATIONS, GOVERNING OR RELATING TO ANY PORTION OF THIS WORK, ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. THESE PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER. THE FOLLOWING CODES SHALL BE FOLLOWED: 2015 NSPC, 2015 IMC, 2013 ASHRAE 90.1, 2015 IBC, AND THE CURRENT NUCC.
- C. CONTRACTOR BIDDING THIS JOB SHALL VISIT AND INSPECT THE JOB SITE TO BECOME FULLY KNOWLEDGEABLE OF EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. CONTRACTOR SHALL COORDINATE THE SITE VISIT WITH OWNER. CONTRACTOR SHALL ASK ARCHITECT ANY QUESTIONS HE MAY HAVE PERTAINING TO STANDARDS AND EXISTING CONDITIONS THAT PROHIBIT THE PROPER INSTALLATION OF HIS WORK AS PER PLANS AND SPECIFICATIONS.
- D. THIS CONTRACTOR IS RESPONSIBLE FOR FIELD CONDITIONS AND FIELD COORDINATION WITH ALL OTHER TRADES.

1.02 SCOPE OF WORK

- A. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE AND SAFE INSTALLATION OF MECHANICAL AND PLUMBING WORK, IN FULL CONFORMITY WITH THE REQUIREMENTS OF BUILDING CODES AND ALL AUTHORITIES HAVING JURISDICTION.
- B. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, DUCTWORK, FITTING, INSULATION, CONDENSATE PIPING, INTERLOCK AND CONTROL WIRING, ETC.
- C. CONTRACTOR SHALL PROVIDE AND INSTALL ALL INTERCONNECTING PIPING, AND CONTROL WIRING AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION. THIS CONTRACTOR IS TO ASSUME COMPLETE RESPONSIBILITY FOR HANDLING, INSTALLATION, FOR ALL EQUIPMENT, PIPING AND ALL PIPING CONNECTIONS AS REQUIRED.
- D. SECURE PERMITS, LICENSES AND CERTIFICATES. PAY ALL FEES AND CHARGES FOR ALL WORK INSTALLED CERTIFYING COMPLIANCE WITH LOCAL CODES AND GOVERNING AUTHORITIES. DELIVER CERTIFICATES TO BUILDING MANAGEMENT OFFICE PRIOR TO THE COMMENCEMENT OF ALL WORK.
- E. START-UP: THIS CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR START-UP INCLUDING ANY PREPURCHASED EQUIPMENT.
- F. GUARANTEE: CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY, AND ASSUME FULL RESPONSIBILITY OF ALL EXPENSES INCURRED FOR, ANY WORKMANSHIP AND/OR EQUIPMENT IN WHICH DEFECTS OCCUR WITHIN ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER.

1.03 SUBMITTALS

- A. SUBMIT COORDINATED SHOP DRAWINGS FOR ALL EQUIPMENT, DUCTWORK LAYOUT, GAS, WATER, DRAIN AND VENT PIPING LAYOUTS, AND SHEET METAL CONSTRUCTION STANDARDS.
- B. ALL PIPING, DUCTWORK, AND EQUIPMENT LAYOUT SHALL BE SUBMITTED ON 1/4" SCALE DRAWINGS AND SHALL SHOW LOCATIONS OF ALL NEW EQUIPMENT, AND NEW WORK FOR ALL TRADES AS WELL AS POTENTIAL CONFLICTS WITH BUILDING STRUCTURE.
- C. SUBMIT ALL SHOP DRAWINGS FOR REVIEW AND APPROVAL TO THE ARCHITECT PRIOR TO PURCHASE, FABRICATION AND INSTALLATION. SUBMIT A SHOP DRAWING SCHEDULE INDICATING ALL SUBMISSION ITEMS WITH THE RESPECTIVE DATES.
- D. SUBMIT OPERATING AND MAINTENANCE MANUAL FOR ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR.

PART 2 PRODUCTS

2.01 PLUMBING FIXTURES

- A. PROVIDE PLUMBING FIXTURES AS SHOWN ON THE DRAWINGS WITH ALL HANGER, SUPPORTS AND STOPS AS REQUIRED BY CODE FOR A COMPLETE INSTALLATION.
- B. PROVIDE HANDICAPPED FLUSH VALVES TO WIDE SIDE OF STALLS AS REQUIRED BY CODE.

2.02 SERVIDE CONNECTIONS/ METERS

- A. PROVIDE ALL WATER AND SANITARY UTILITY CONNECTIONS.
- B. PROVIDE AND INSTALL METERS AND PRESSURE REGULATORS IF NOT PROVIDED BY LOCAL UTILITIES.
- C. COORDINATE ALL WORK WITH LOCAL UTILITIES.
- D. PROVIDE CONTROLS AND CONTROL WIRING IF APPLICABLE, COORDINATE WITH ELECTRICAL CONTRACTOR.

2.03 EQUIPMENT SUPPORTS

- A. VIBRATION ISOLATORS: IF NOT SUPPLIED BY EQUIPMENT MANUFACTURER, VIBRATION ISOLATORS SHALL BE MASON INDUSTRIES COMBINATION SPRING/ELASTONER HANGER TYPE 30N. PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL CODE.

2.04 DUCTWORK

- A. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION, INC. (SMACNA).
- B. DUCTWORK SHALL BE GALVANIZED STEEL.
- C. SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH 2" THICK FIBERGLASS BLANKET INSULATION WITH A MINIMUM "R" VALUE OF 6.0, A MAXIMUM FLAME SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50, WHEN TESTED IN ACCORDANCE WITH ASTM-E84. SUPPLY DUCTWORK INSULATION SHALL INCLUDE A VAPOR BARRIER WITH A MAXIMUM PERMEANCE OF 0.05 perm. ALL SEAMS AND JOINTS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR BARRIER.
- D. ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

2.05 GAS PIPING

- A. ALL PIPE SHALL BE STEEL SCHEDULE 40. ALTERNATE MATERIAL MAY BE USED IF IN ACCORDANCE WITH 2.05.B BELOW.
- B. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 INTERNATIONAL FUEL GAS CODE.

2.06 WATER PIPING

- A. ALL WATER PIPE SHALL BE TYPE L COPPER (ABOVE GROUND) AND TYPE K SOFT TEMPER COPPER (BELOW GROUND).
- B. ALL WATER PIPE SHALL CONFORM TO ASTM B88.
- C. ALL JOINTS SHALL BE SOLDERED WITH LEAD FREE SOLDER.
- D. FITTINGS SHALL BE WROUGHT COPPER.
- E. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING WITH 1/2" THICK ARMAFLEX II, CLOSED CELL FOAM INSULATION AS MANUFACTURED BY ARMSTRONG CORK CO.

2.07 DRAIN AND VENT PIPING

- A. ALL DRAIN PIPING SHALL BE PVC, DWV AND SHALL CONFORM TO ASTM D2665.

2.08 VALVES

- A. HOT AND COLD WATER SHUT-OFF VALVES SHALL BE BALL VALVES AND SHALL BE CAST BRONZE BODY, TWO PIECE TYPE WITH FULL PORT CHROME PLATED BRASS BALL AND TFE SEATS AND PACKING.
- B. GAS COCK SHALL MEET THE REQUIREMENTS OF AND BE AN APPROVED MANUFACTURER OF THE PROPANE COMPANY PROVIDING THE PROPANE SERVICE.

PART 3 EXECUTION

3.01 CUTTING AND PATCHING

- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, PATCHING, WATERPROOFING, AND FLASHING THAT MAY BE REQUIRED, DUCTWORK, EQUIPMENT, ETC.
- B. THIS CONTRACTOR SHALL COORDINATE SUPPORTS AND FLASHING WITH ARCHITECT AND SUBMIT THE METHOD OF SUPPORT, AND FLASHING METHODS. FOR REVIEW TO THE ARCHITECT.
- C. THIS CONTRACTOR SHALL PROVIDE SLEEVES FOR DUCTS AND PIPING AND PROVIDE ESCUTCHEONS. SEAL OPENINGS AROUND DUCTS AND PIPING THOROUGH PARTITIONS, WALLS AND FLOOR (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL.
- D. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOF INTEGRITY OF THIS BUILDING AS REQUIRED BY THE REMOVAL AND/OR INSTALLATION OF PIPES, DUCTS, CONDUITS AND EQUIPMENT.

3.02 EQUIPMENT, DUCTWORK AND PIPING INSTALLATION

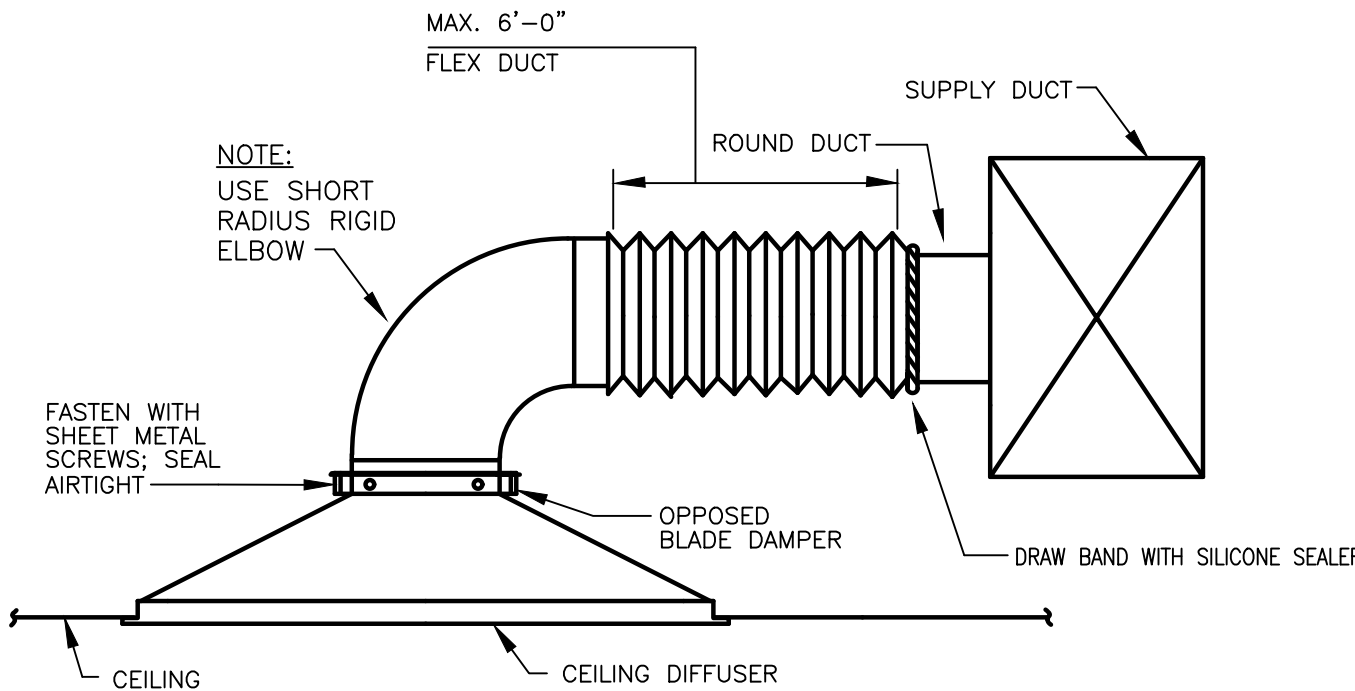
- A. SUPPORT ALL CEILING MOUNTED EQUIPMENT, DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS AND EQUIPMENT, PROVIDE ADDITIONAL STEEL FRAMING.
- B. CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED WITH THREADED HANGER RODS AND VIBRATION ISOLATORS.

3.03 SLEEVES

- A. SLEEVES FOR WEATHERPROOF AND FIRE-RATED WALLS, FLOORS, AND MECHANICAL EQUIPMENT ROOM SHALL BE CAST IRON OR STEEL PIPE EXTENDING THROUGH CONSTRUCTION. EXTEND SLEEVES MINIMUM 2" ABOVE FLOOR. SLEEVES FOR WEATHERPROOF CONSTRUCTION SHALL BE OF THE FLASHING TYPE AND SHALL BE AS REQUIRED BY THE BUILDING OWNER.

3.04 TESTING, ADJUSTING AND BALANCING - AN INDEPENDENT TESTING, ADJUSTING AND BALANCING CONTR. CERTIFIED BY NEBB OR AMBC SHALL BE RETAINED TO PERFORM THE FOLLOWING:

- A. TESTING AND BALANCING SHALL BE PERFORMED AT THE END OF CONSTRUCTION OF EACH PHASE. FINAL TESTING AND BALANCING SHALL BE PERFORMED FOR THE ENTIRE SPACE AT THE END OF CONSTRUCTION OF THE LAST PHASE. AIR QUANTITIES SHALL BE ADJUSTED IN RESPONSE TO COMMENTS OF THE OCCUPANTS OF EACH PHASE DURING THE PHASE OF BALANCING.
- B. TEST AND BALANCE HVAC AIR SYSTEMS TO WITHIN +10%, -5% OF DESIGN FLOWS.
- C. PERFORM TESTS PER AABC NATIONAL STANDARDS OR EQUIVALENT NEBB METHODS. RECORD DATA ON STANDARD AABC OR NEBB FORMS.
- D. ADJUSTMENTS AND TESTS SHALL BE MADE UNDER SIMULATED MAXIMUM LOAD CONDITIONS.
- E. CHECK ALL FANS, CONTROL DEVICES, DAMPERS, ETC., FOR PROPER OPERATION AND CALIBRATION. REPORT DEFICIENCIES WHICH CANNOT BE CORRECTED. MARK AND LOCK DAMPERS AT THEIR PROPER POSITION.
- F. ADJUST, TEST AND CONFIRM DESIGN AIR FLOW RATES, PRESSURES, TEMPERATURES, SUPPLY AND RETURN AIR TEMPERATURES, EQUIPMENT SPEED AND MOTOR AMPERAGES FOR EACH SEGMENT BRANCH AND COMPONENT OF EACH SYSTEM.
- G. AIR FLOWS SHALL BE BALANCED WITH THE VOLUME DAMPERS INSTALLED IN EACH BRANCH DUCTWORK. OPPOSED BLADE DAMPERS (OPD) IN THE DIFFUSERS SHALL BE SET IN THE FULLY OPEN POSITION DURING BALANCING. AFTER THE MAIN SYSTEM IS BALANCED WITHIN LIMITS SPECIFIED ABOVE, OPD CAN BE USED FOR MINOR ADJUSTMENTS.
- H. PREPARE REPORT, INCLUDING FORMS AND SUBMIT TO ENGINEER FOR REVIEW AND APPROVAL.



TYPICAL DIFFUSER CONNECTION
SCALE : N.T.S.

DIFFUSER SCHEDULE						
TYPE	CFM RANGE	NECK DIA OR ACTIVE LENGTH	FACE DIM (IN)	MANUFACTURER MODEL NO. (AS STANDARD)	SERVICE	NOTES
A	50-150	6"ø	24" x 24"	ACUTHERM ST-HC	SUPPLY	①
B	150-280	8"ø	24" x 24"	ACUTHERM ST-HC	SUPPLY	①
C	50-100	6"ø	24" x 24"	TITUS MODEL TMS	SUPPLY	① ②
D	100-175	8"ø	24" x 24"	TITUS MODEL TMS	SUPPLY	① ②
E	150-275	10"ø	24" x 24"	TITUS MODEL TMS	SUPPLY	① ②
F	250-400	12"ø	24" x 24"	TITUS MODEL TMS	SUPPLY	① ②
1. PROVIDE WITH OPPOSED BLADE BALANCING DAMPER FOR ALL. 2. USE TITUS MODEL TMSA WHERE 3-WAY THROW (i.e. ☒) IS INDICATED.						

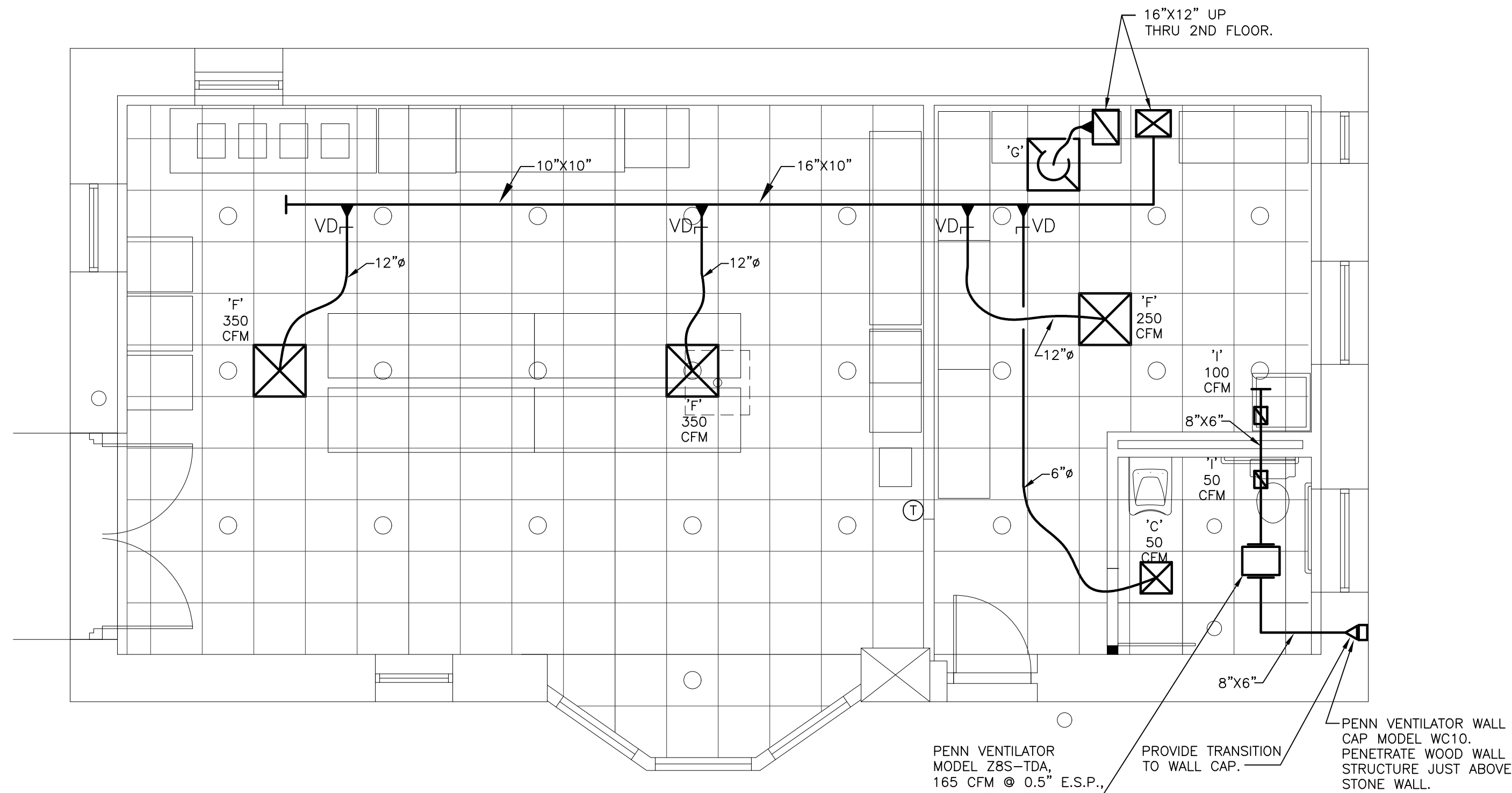
REGISTER AND GRILLE SCHEDULE						
TYPE	CFM RANGE	NECK SIZE	FACE DIM (IN)	MANUFACTURER MODEL NO. (AS STANDARD)	SERVICE	NOTES
G	0-1000	16"ø	23-3/4" x 23-3/4"	TITUS PAR	RETURN	③
H	0-120	6"ø	11-3/4" x 11-3/4"	TITUS PAR	RETURN	③
I	0-120	8"x6"	9-3/4" x 7-3/4"	TITUS 350RL	EXHAUST	③
1. PROVIDE WITH OPPOSED BLADE BALANCING DAMPER FOR ALL. 2. PROVIDE WITH BORDER TYPE 3 FOR LAY-IN INSTALLATION. 3. WHERE FLEX DUCT SIZE AND NECK SIZE DO NOT MATCH PROVIDE TRANSITION AT NECK OF DIFFUSER/REGISTER/RETURN.						

AIR CONDITIONING UNIT SCHEDULE																			
SYMBOL	SERVICE	SUPPLY CFM	O.A. CFM	E.S.P. IN. W.G.	MOTOR H.P.	COOLING DATA			AMBIENT TEMP °F	SEER	HEATING DATA			ELEC DATA(FURNACE ONLY)		OPERATING WEIGHT (LBS)	MODEL	REMARKS	
						TOTAL MBH	SENSIBLE MBH	EAT °F DB WB			INPUT MBH	OUTPUT MBH	STAGES	V/ø/Hz	MCA				MOCP
AC-1	1st FL OFFICES & PRO SHOP	1000	150	0.65	0.75	29.5	22.65	78 65	95	④	45	43	1	120/1/60	8.6	15	184	LENNOX ML195UH045XP30C	①③
AC-2	1st FL SHOWROOM	1000	150	0.65	0.75	29.5	22.65	78 65	95	④	45	43	1	120/1/60	8.6	15	184	LENNOX ML195UH045XP30C	②③
1. DOWNFLOW FURNACE 2. UPFLOW FURNACE 3. PROVIDE ELECTRONIC 7-DAY PROGRAMMABLE THERMOSTAT W/NIGHT SET BACK CAPABILITY. THERMOSTAT SHALL BE PROGRAMMED TO TURN AC UNIT 'ON' DURING OCCUPIED HOURS. AC UNIT SHALL PROVIDE THE CODE REQUIRED VENTILATION AIR (O.A. CFM) AS INDICATED IN SCHEDULE. 4. SEER RATINGS SHALL MEET ASHRAE 90.1, 2013, TABLE 6.8.1																			

PARK WEST CONSULTING ENGINEERS
4 OAK PLACE
BUDD LAKE, NEW JERSEY 07868
PHONE #: (973) 236-1271
JOSEPH B. TAYLOR, P.E.

NEW JERSEY LIC. NO. 35330

	7/30/21	BID SET
REV.	DATE	DESCRIPTION
PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE AIO 13073		
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470		
TITLE: MECHANICAL SPECIFICATIONS & SCHEDULES		
ZONING:	DATE:	4-27-2021
REV.:	SCALE:	As Noted
	DRAWN BY:	J.T.
	DRAWING NO:	M-1

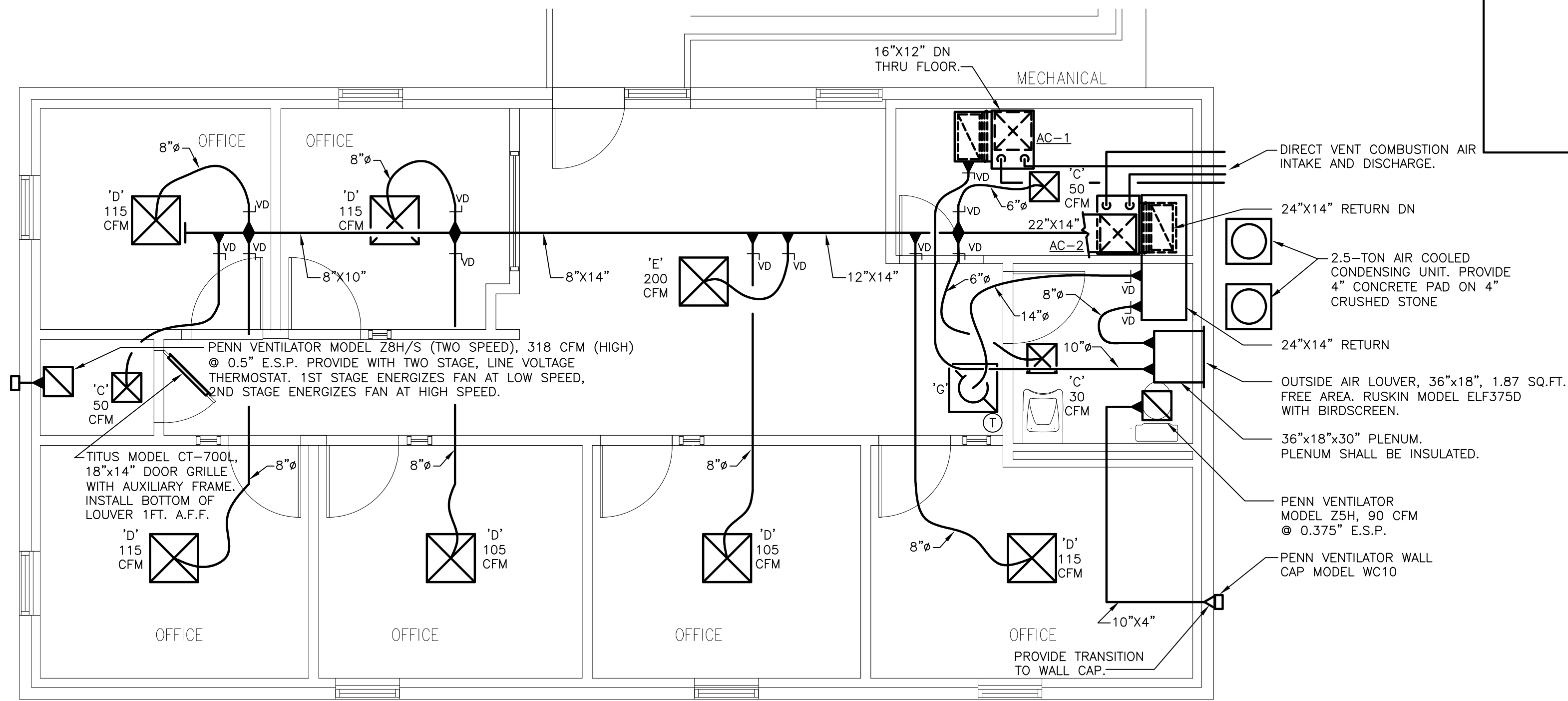


FIRST FLOOR HVAC PLAN

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

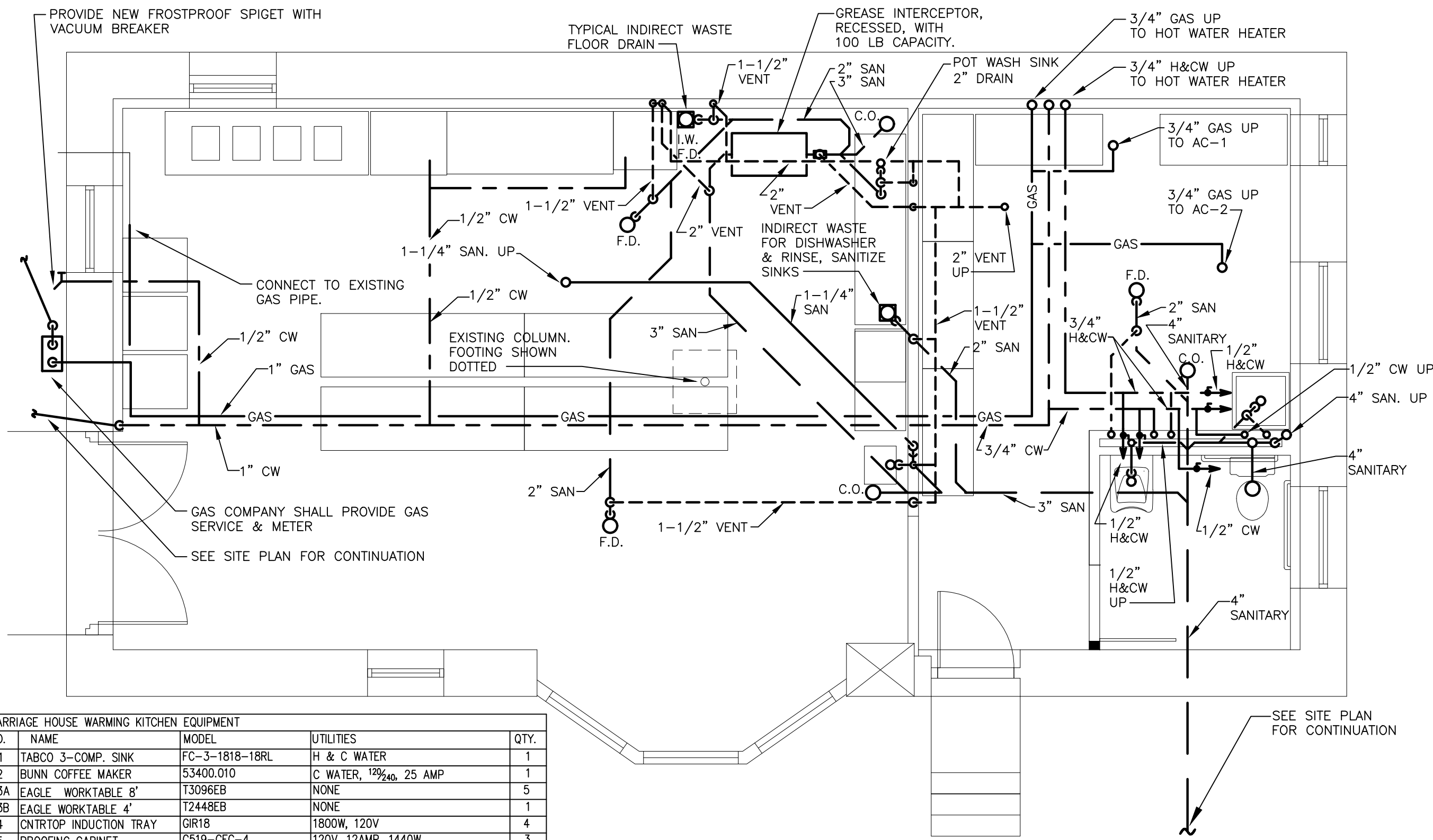
AC-1
LENNOX MODEL ML195DH045XP30C DOWNFLOW GAS FURNACE,
120V, WITH 45 MBH HEAT (INPUT), WITH
MODEL CH-33-300-2F NOMINAL 2.5 TON CASED
DX COOLING COIL, WITH MODEL 14ACX-030-230
NOMINAL 2.5 TON AIR COOLED CONDENSING
UNIT, 230V-1PH, 14.5 SEER. PROVIDE WITH OPTIONAL
SIDE RETURN AIR FILTER KIT.

AC-2
LENNOX MODEL ML195UH045XP30C UPFLOW GAS FURNACE,
120V, WITH 45 MBH HEAT (INPUT), WITH
MODEL CH-33-300-2F NOMINAL 2.5 TON CASED
DX COOLING COIL, WITH MODEL 14ACX-030-230
NOMINAL 2.5 TON AIR COOLED CONDENSING
UNIT, 230V-1PH, 14.5 SEER. PROVIDE WITH OPTIONAL
SIDE RETURN AIR FILTER KIT.



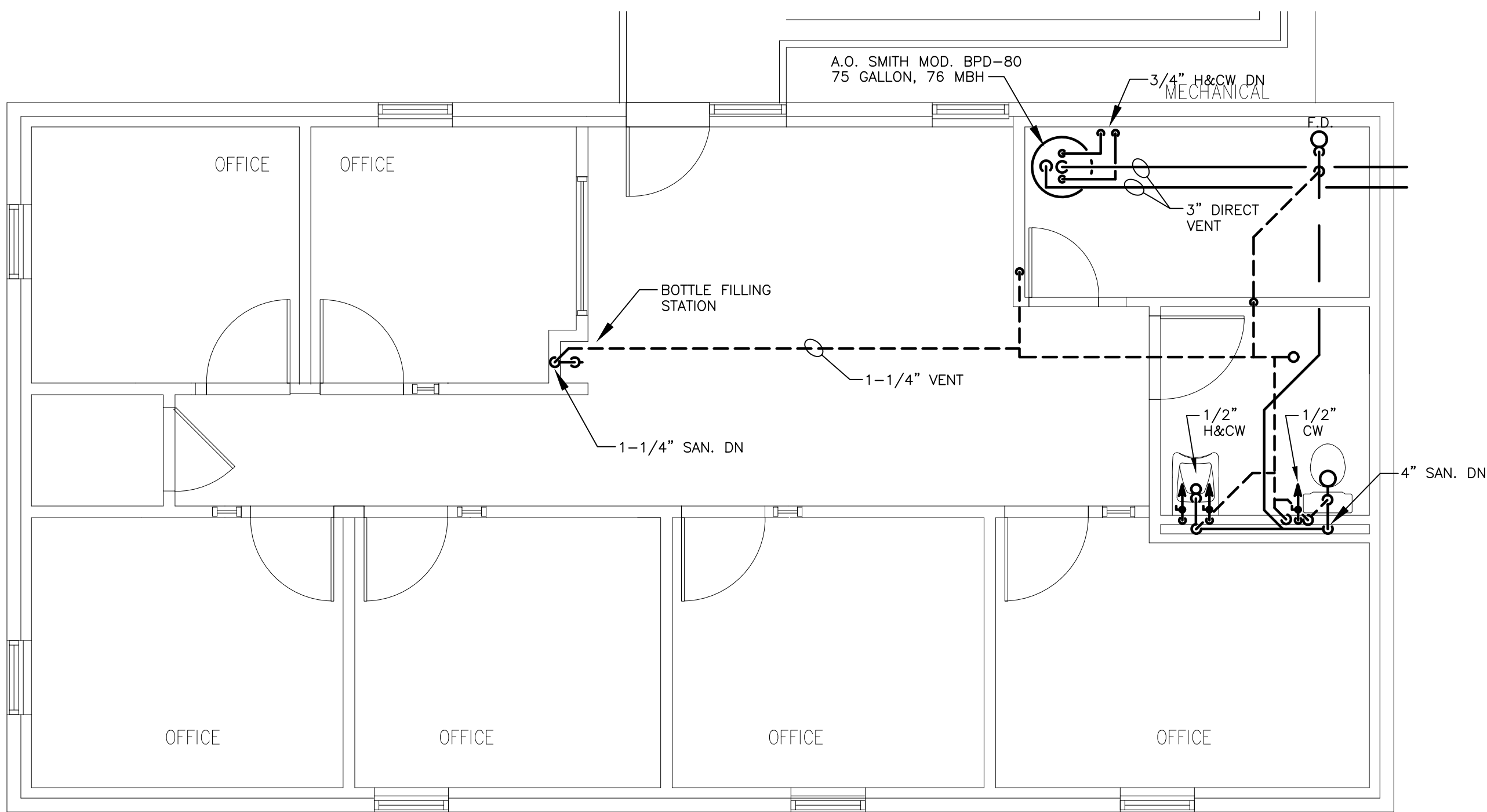
SECOND FLOOR HVAC PLAN

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



FIRST FLOOR PLUMBING PLAN

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



SECOND FLOOR PLUMBING PLAN

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

CARRIAGE HOUSE WARMING KITCHEN EQUIPMENT				
NO.	NAME	MODEL	UTILITIES	QTY.
1	TABCO 3-COMP. SINK	FC-3-1818-18RL	H & C WATER	1
2	BUNN COFFEE MAKER	53400.010	C WATER, 105% _{ad} , 25 AMP	1
3A	EAGLE WORKTABLE 8'	T3096EB	NONE	5
3B	EAGLE WORKTABLE 4'	T2448EB	NONE	1
4	ONTRIP INDUCTION TRAY	GIR18	1800W, 120V	4
5	PROOFING CABINET	CS19-CP-C-4	120V, 12AMP, 1440W	3
6	DISHWASHER UNDERNT.	F-180P	H WATER, 209% _{ad} , 4550W, 22.3 AMP	1
7	ICE MAKER	KM-901MW	C WATER, 208V-230V, 10 AMP	1
8	WALL MOUNT HAND SINK	HS-14	H & C WATER	1
9	3-DOOR SS REFRIGERATOR	TS-72-HC	115/60/1V, 15 AMP	1
10	METRO SHELVEING 24"x60"		NONE	5

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NEW JERSEY LIC. NO.

35330

REV.	DATE	DESCRIPTION
7/30/21	BID SET	
PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE AIO 13073		
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470		
TITLE: MECHANICAL AND PLUMBING FLOOR PLANS		
ZONING:	DATE:	4-27-2021
REV.:	SCALE:	As Noted
	DRAWN BY:	J.T.
	DRAWING NO:	M-2

AC UNIT INSTALLATION DIAGRAM

SCALE: NONE

GAS RISER DIAGRAM

SCALE: NONE

SANITARY RISER DIAGRAM

SCALE: NONE

	7/30/23	BID SET
REV.	DATE	DESCRIPTION
PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE NO 13073		
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470		
TITLE: MECHANICAL DETAILS & DIAGRAMS		
ZONING:		DATE: 4-27-2021
REV.:		SCALE: As Noted
		DRAWN BY: J.T.
		DRAWING NO:
		M-3

ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS. ALL MATERIALS AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED.
- B. ALL APPLICABLE CODES, LAWS AND REGULATIONS, GOVERNING OR RELATING TO ANY PORTION OF THIS WORK, ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. THE CONTRACTOR SHALL INFORM ARCHITECT PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATIONS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- C. CONTRACTOR BIDDING THIS JOB SHALL VISIT AND INSPECT THE JOB SITE TO BECOME FULLY KNOWLEDGEABLE OF EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. CONTRACTOR SHALL COORDINATE THE SITE VISIT WITH OWNER. CONTRACTOR SHALL BECOME FAMILIAR WITH DIFFICULTIES THAT WILL IMPEDE THE EXECUTION OF HIS WORK, INCLUDING AVAILABILITY OF SPACE, EXACT LOCATION AND MOUNTING METHOD OF ANY ELECTRICAL PANEL(S), TRANSFORMER(S) AND OTHER SUCH DEVICES SHOWN IN THE DRAWING. DURING THIS INSPECTION, IF THE CONTRACTOR FINDS ANY OBSTRUCTION OR INTERFERENCE THAT MAY PROHIBIT THE PROPER INSTALLATION OF HIS WORK,, HE IS TO MAKE IT KNOWN TO THE ENGINEER BEFORE AND AT THE TIME OF SUBMITTING HIS BID.
- D. THIS CONTRACTOR IS RESPONSIBLE FOR FIELD CONDITIONS AND FIELD COORDINATION WITH ALL OTHER TRADES.
- E. GENERAL CONTRACTOR SHALL PROVIDE COMPOSITE COORDINATION DRAWINGS FOR REVIEW AND SUBSEQUENT MEETING WITH THE ARCHITECT, ENGINEER AND LANDLORD TO DISCUSS CONFLICTS.

1.02 SCOPE OF WORK

- A. SECURE ALL PERMITS, CERTIFICATES, LICENSES, ETC. AND PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR A COMPLETE AND SAFE INSTALLATION OF ELECTRICAL ITEMS AS INDICATED ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
1. ALL PANELBOARDS, CONDUITS, WIRING, ETC.
2. LIGHTING FIXTURES AND LAMPS.
3. SWITCHES, RECEPTACLES, ETC.
4. RACEWAYS AND CIRCUIT WIRING.

1.03 SUBMITTALS

- A. OVER CURRENT PROTECTION DEVICES (SWITCHES AND BREAKERS).
- B. LIGHTING FIXTURES
- C. ALL DEVICES

PART 2 PRODUCTS

2.01 WIRE AND CABLE:

- A. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION, UNLESS OTHERWISE NOTED.
- B. THE MINIMUM WIRE SIZE FOR BRANCH CIRCUIT SHALL BE NO. 12 AWG EXCEPT 120V CIRCUITS OVER 100’ IN LENGTH WHICH SHALL BE NO. 10 AWG MIN.

2.02 PULLBOXES, JUNCTION BOXES AND OUTLET BOXES:

- A. PULL BOXES, JUNCTION BOXES AND OUTLET BOXES SHALL BE MANUFACTURED FROM GALVANIZED SHEET METAL AND SHALL BE SIZED TO ACCOMMODATE BENDING RADIUS CRITERIA SPECIFIED BY WIRE AND CABLE MANUFACTURER.
- B. SWITCH, RECEPTACLE AND WALL OUTLET BOXES SHALL BE NOMINAL 4 INCH SQUARE, WITH A RAISED COVER. PROVIDE 3/8 INCH FIXTURE STUD AS REQUIRED. GANGED OUTLET BOXES SHALL BE SUFFICIENT LENGTH TO SUIT CONDITIONS.
- C. LIGHTING FIXTURE BOXES SHALL BE OCTAGONAL WITH 3/8 INCH FIXTURE STUD. FOR SUSPENDED CEILING WORK, PROVIDE REMOVABLE BACKPLATE AS REQUIRED.
- D. BOXES SHALL BE BY AMERICAN ELECTRIC, RACO INC. OR BOWERS MFG.

2.03 CIRCUIT BREAKERS, FUSES AND DISCONNECTS:

- A. CIRCUIT BREAKERS SHALL BE THE "THERMAL-MAGNETIC" TYPE HAVING IMMETALLIC ELEMENT TIME DELAY OVERLOAD PROTECTION AND MAGNETIC ELEMENT FOR SHORT CIRCUIT PROTECTION.
- B. CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AND SHALL BE COMPATIBLE WITH PANELBOARD.
- C. PROVIDE HANDLE-LOCKS FOR ALL CIRCUIT BREAKERS FOR "NITE LITE" AND "EXIT" LIGHTS BATTERY PACKS AND SMOKE DETECTORS.
- D. FEEDERS FOR ALL NEW PANELBOARDS SHALL BE RUN IN FULL WEIGHT RIGID STEEL, NOT GALVANIZED CONDUIT, U.O.N. ON DRAWINGS. ALL ELBOWS HOT DIPPED GALVANIZED RIGID STEEL AND ALL FITTINGS SHALL BE OF CAST IRON OR CAST IRON ALLOY GALVANIZED OR CADMIUM PLATED.
- E. PROVIDE A CIRCUIT DIRECTORY WITH METAL FRAME AND GLASSINE PANEL ON THE INSIDE OF DOOR OF EVERY PANELBOARD.

2.04 DEVICES:

- A. WIRING DEVICES SHALL BE OF THE SPECIFICATION GRADE.
- B. SINGLE POLE SWITCHES SHALL BE 120/277 VOLT, 20 AMPERES, QUIET OPERATION TYPE.
- C. CONVENIENCE POWER OUTLETS SHALL BE 20 AMPERE, 2 POLE, 3 WIRE GROUNDED, COLOR AS SPECIFIED BY ARCHITECT.

2.05 LIGHT FIXTURES:

- A. PROVIDE GROUNDING CONNECTIONS FOR LUMINARIES AS REQUIRED.
- B. ALL FIXTURES SHALL BE AS INDICATED ON DRAWINGS OR EQUAL UNLESS OTHERWISE NOTED.

PART 3 EXECUTION

3.01 CONDUITS AND RACEWAYS:

- A. 3/4" MIN. INTERMEDIATE METAL CONDUIT SHALL BE USED IN ALL EXPOSED SPACES.
- B. BRANCH CIRCUIT WIRING FOR POWER AND LIGHTING ABOVE CEILING AND IN CONCEALED LOCATIONS SHALL BE TYPE AC OR MC.

3.02 PANELBOARDS:

- A. COMPLETE PANEL DIRECTORY IN TYPEWRITTEN TEXT, INDICATING THE SERVICE CONTROLLED BY EACH CIRCUIT.
- B. CLEAN, VACUUM AND TIGHTEN ALL CONNECTORS AND CONNECTIONS IN EXISTING ELECTRICAL EQUIPMENT REUSED.
- C. SEAL EXISTING PANEL KNOCK-OUTS NOT REUSED.

3.03 GROUNDING:

- A. PROVIDE A GREEN GROUND CONDUCTOR IN ALL CIRCUIT CONDUCTORS. ALSO, PROVIDE SEPARATE ISOLATED GROUND CONDUCTORS, MINIMUM #12, FOR ALL DEVICES ISOLATED GROUND TYPE AND RUN BACK TO ISOLATED GROUND BUS IN PANELBOARD. THIS DOES NOT RELIEVE THE REQUIREMENT FOR GROUNDING THE RACEWAY SYSTEM AND OUTLET BOX OF I.C. TYPE RECEPTACLE.
- B. ALL GROUND WIRES SHALL BE SUITABLY PROTECTED FROM MECHANICAL DAMAGE.
- C. GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRIC CODE, OR LOCAL CODES THAT MAY APPLY.

3.04 PULLBOXES, JUNCTION BOXES AND OUTLET BOXES:

- A. PROVIDE ALL REQUIRED JUNCTION/PULL BOXES AND OUTLET BOXES NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- B. BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
- C. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH.

3.05 DEVICES:

- A. ALL DEVICE PLATES SHALL BE PLUMB AND SHALL FIT FLAT AGAINST SURFACE AND SHALL BE 302 STAINLESS STEEL UNLESS OTHERWISE NOTED BY ARCHITECT.
- B. MULTIPLE DEVICES AT A COMMON LOCATION SHALL BE INSTALLED IN A MULTIGANG DEVICE PLATE.
- C. INSTALL RECEPTACLES 36" ABOVE FINISHED FLOOR.

3.06 SUPPORTS:

- A. SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS REQUIRED. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.
- B. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
- C. ALL ANCHORS, FASTENERS, CLAMPS, ETC., SHALL BE MADE OF STEEL AND SHALL NOT CONTAIN ANY LEAD, WOOD, PLASTIC, ETC.

3.07 SLEEVES:

- A. PROVIDE WATERPROOF SLEEVES, AS APPROVED FOR ROOF, FLOOR AND WALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED BY ART. #300-21 OF THE NATIONAL ELECTRIC CODE.
- B. THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOUSE STREAM TEST REQUIREMENTS OF ASTM E-119-73 AND SHALL BE UL CLASSIFIED AS A WALL OPENING PROTECTIVE DEVICE, AS MANUFACTURED BY CHASE TECHNOLOGY CORPORATION.

3.08 CUTTING AND PATCHING:

- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING AND PATCHING THAT MAY BE REQUIRED FOR ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.








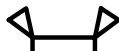











3.09 LOAD BALANCING:

- A. ELECTRICAL CONTRACTOR SHALL BALANCE THE LOAD BETWEEN THE PHASES 10% MAX. WITH AMPERE ON ALL PANELS, SUBSEQUENT TO COMPLETION OF INSTALLATION, WITH ALL EQUIPMENT OPERATING SIMULTANEOUSLY. ELECTRICAL CONTRACTOR SHALL SUBMIT LOAD BALANCING REPORT TO PROJECT MANAGER FOR APPROVAL.

3.10 TEST AND GUARANTEES:

- A. UPON COMPLETION OF ALL ELECTRICAL WORK, CONTRACTOR SHALL TEST FOR GROUNDS AND SHORTS, TO INSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT. REPAIR OR REPLACE FAULTY EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- B. GUARANTEE FOR ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND MATERIALS FURNISHED.

ELECTRICAL SYMBOLS

	GROUND FAULT CIRCUIT INTERRUPTING DUPLEX OUTLET – 20A, 125V, 2 POLE, 3 WIRE, GROUNDING, NEMA 5–20R
	WEATHERPROOF GROUND FAULT INTERRUPTING DUPLEX OUTLET – 20A, 125V, 2 POLE, 3 WIRE, GROUNDING, NEMA 5–20R
	DUPLEX, SURFACE MOUNTED, RECEPTACLE
	SURFACE MOUNTED, 250V RECEPTACLE. CONFIGURATION SHALL MATCH PLUG CONFIGURATION OF EXISTING WELDER
	SINGLE POLE SWITCH, SURFACE MOUNTED
	SINGLE POLE, LOW VOLTAGE SURFACE MOUNTED SWITCH
	COMBINATION EMERGENCY EXIT SIGN AND DUAL LAMP EMERGENCY LIGHTING UNIT WITH 90 MIN. BATTERY BACK-UP, 120V. CONNECT TO UNSWITCHED SIDE OF SWITCH.
	EMERGENCY LIGHTING UNIT, DUAL LAMP, 120V., 90 MIN. BATTERY BACK-UP. CONNECT TO UNSWITCHED SIDE OF SWITCH.
	COMINATION EMERGENCY LIGHT AND EXIT SIGN WITH (2) REMOTE OUTDOOR HEADS, DUAL LITE MODEL CVT3RW5 WITH QMSDB0605 INDOOR/OUTDOOR REMOTE HEADS WITH (2) 5.4 WATT LAMPS. CONNECT TO UNSWITCHED SIDE OF SWITCH.
	EMERGENCY EXIT SIGN WITH BATTERY BACK UP
	DISCONNECT SWITCH
	HOME RUN TO PANEL
	JUNCTION BOX, SURFACE MOUNTED
	LOW VOLTAGE WIRING
	LEVITON MODEL OSSMT-GDW, DUAL TECHNOLOGY OCCUPANCY SENSOR, 120V, WALL MOUNT AT 48" A.F.F., LED COMPATABLE. SET TO MANUAL "ON" ONLY
	LEVITON MODEL OSSMD-GDW, DUAL TECHNOLOGY OCCUPANCY SENSOR, 120V, WITH TWO SWITCHES TO CONTROL TWO LOADS, WALL MOUNT AT 48" A.F.F., LED COMPATABLE. SET TO MANUAL "ON" ONLY.
	HUBBLE UNIVERSAL POWER PACK MODEL LVPPM, 120-277V, 20A RATED. FURNISH WITH MOMENTARY MANUAL OVERRIDE SWITCH MODEL LVSM WITH NO PILOT. SEE PLANS FOR NUMBER OF OVERRIDE SWITCHES.
	HUBBLE MODEL LVSM MOMENTARY OVERRIDE SWITCH WITH NO PILOT.
	HUBBLE OMNI MODEL DT2000, 24VDC DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR WITH 2000 SQ.FT. COVERAGE.

LIGHTING SCHEDULE		
FIXTURE TYPE	DESCRIPTION	MANUFACTURER/ CATALOGUE #
A	6" LED DOWNLIGHT	FOCAL POINT-FLC6D-RO-200DL-120V-LD1-T-LC6-RO-2000L-3000K-80+, 30K-DN-WD-WP
B	6" LED DOWNLIGHT, IC	PRESCOLITE LTR-6RD-H-ML-20L-DW1-STANDARD 120-277V-IC-LTR-6RD-T-ML-30K-8-XW- VS-WT
C	SCONCE	BEGA #66411-K3-BLK

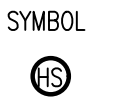

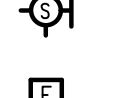

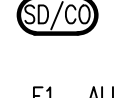
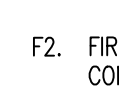
PANEL SCHEDULE											
NO. P	LOCATION									42 POLE, 225A RATED, 240V, 1Ø, 3W PANEL, 225A MCB	
		CIRCUIT		PHASE			CIRCUIT				
CIRCUIT DESCRIPTION		CB	NO	A	B	C		NO	CB	CIRCUIT DESCRIPTION	
FIRST FLOOR LIGHTS		20	1	+				2	20	SECOND FLOOR LIGHTS	
SECOND FLOOR LIGHTS		20	3			+	+	4	20	OFFICE RECEPTACLES	
OFFICE RECEPTACLES		20	5	+				6	20	'IT' CLOSET RECEPTACLE	
OFFICE RECEPTACLES		20	7			+	+	8	20	'IT' CLOSET RECEPTACLE	
OFFICE RECEPTACLES		20	9	+				10	20	OFFICE RECEPTACLES	
OFFICE RECEPTACLES		20	11			+	12	20	20	OFFICE RECEPTACLES	
TOILET RM. RECEPTACLE		20	13	+				14	20	RECEPTION/MECHANICAL RM RECEPTACLES	
DOMESTIC WATER HEATER		20	15			+	16	20	20	AC-1 (INDOOR UNIT)	
AC-2 (INDOOR UNIT)			17	+				18			
AC-2 (OUTDOOR UNIT) ①		40/2	19			+	20	20	40/2	AC-1 (OUTDOOR UNIT) ①	
			21	+				22	20	PROOFING CABINET	
PROOFING CABINET		20	23			+	24	20	20	PROOFING CABINET	
COUNTERTOP INDUCTION TRAY		20	25	+				26	20	COUNTERTOP INDUCTION TRAY	
COUNTERTOP INDUCTION TRAY		20	27			+	28	20	20	COUNTERTOP INDUCTION TRAY	
CONVENIENCE RECEPTACLES		20	29	+				30	20	REFRIGERATOR	
EXHAUST FAN		20	31			+	32	20	20	HANGING RECEPTACLES OVER ISLAND	
COFFEE MAKER ②		25/2	33	+				34	20	HANGING RECEPTACLES OVER ISLAND	
			35			+	36				
TOILET RM. RECEPTACLES		20	37	+				38	25/2	DISHWASHER ②	
SPARE		20	39			+	40		20/2	ICE MAKER	
SPARE		20	41			+	42				

① USE #8 COPPER CONDUCTORS WITH #10 COPPER GROUND AND HACR TYPE BREAKER.
② USE #10 COPPER CONDUCTORS WITH #10 COPPER GROUND.

ELECTRICAL NOTES

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH N.F.P.A.–70–2017 N.E.C. AS WELL AS THE NEW JERSEY UNIFORM CONSTRUCTION CODE. BARRIER FREE REQUIREMENTS OF NJIBC CHAPTER 11(ACCESSIBILITY) AND ICC A117.1 APPLY TO THE INSTALLATION.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH LAYOUT AND DETAIL CONDITIONS BY CONSULTING THE ARCHITECTURAL, MECHANICAL, PLUMBING, ETC., DRAWINGS.
3. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH OTHER TRADES PRIOR TO ANY JOB DIMENSIONS, FABRICATION AND INSTALATION OF ELECTRICAL EQUIPMENT.
4. ALL CONDUIT AND J-BOXES SHALL BE RUN IN A FUNCTIONAL PATTERN OR DIRECT UNIFORMITY (PARALLEL TO OR VERTICAL) WITH OTHER TRADES. (SPRINKLERS, PLUMBING LINES, DUCTS, STRUCTURAL MEMBERS, ETC.)
5. ELECTRICAL CONTRACTOR SHALL SUPPLY ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING, JUNCTION AND PULL BOXES, AND HARDWARE, ETC. . AS REQUIRED TO PROVIDE A COMPLETE AND WORKING ELECTRICAL SYSTEM, EXCEPT AS NOTED BELOW.
6. UNLESS OTHERWISE NOTED ALL WIRING SHALL BE STRANDED COPPER, 600V., TYPE THHN/THWN POWER WIRING, MINIMUM SIZE TO BE #12 AWG; CONTROL SIZE AS NOTED ON PLANS.
7. UNLESS OTHERWISE NOTED, ALL INTERIOR CONDUIT TO BE 3/4" OR LARGER SIZE E.M.T. METAL CONDUIT. CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT ROUTING OF CONDUIT. EXTERIOR CONDUIT TO BE RIGID GAL. STEEL, PVC OR LIQUIDTIGHT FLEX AS REQUIRED. CONDUIT TERMINATING AT MOTORS SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT.
8. ALL RECEPTACLES SHALL BE IDENTIFIED AS TO PANEL AND CIRCUIT DESIGNATION (I.E.: PP2-14) LOCATED NEAR BOTTOM OF RECEPTACLE.
9. ALL CONDUITS AND RACEWAYS SHALL CONTAIN SEPARATE GREEN COLORED EQUIPMENT GROUNDING CONDUCTOR SIZED PER N.E.C. TABLE 250.95.
10. WHERE ELECTRICAL WORK IS INDICATED FOR CONTRACTOR TO "PROVIDE" MEANS TO "FURNISH AND INSTALL".
11. AT CONDUIT TERMINATIONS, PROVIDE INSULATED BUSHINGS FOR CONDUCTOR PROTECTION.
12. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND SIZING OF BRANCH CIRCUIT AND PANEL HOME RUN CONDUIT AND WIRING PER WIRE SIZE AND CONDUIT FILL SCHEDULE, SHOWN ON THIS DRAWING, AND N.F.P.A.–2017 NEC CONDUIT AND WIRE TABLES INCLUDING DERATING OF WIRING AS REQUIRED.
13. ELECTRICAL CONTRACTOR TO VERIFY CIRCUITS AND CIRCUIT NUMBERS BEING USED AND ADJUST AS REQUIRED.
14. ELECTRICAL CONTRACTOR TO UPDATE AND POST TYPED PANEL SCHEDULES IN ALL PANELS.
15. UPON COMPLETION OF WORK, ELECTRICAL CONTRACTOR TO SUBMIT MARKED UP, AS BUILT, ELECTRICAL DRAWINGS TO THE PROJECT ENGINEER.
16. CONYTRACTOR TO CONSULT WITH OWNER AND OR EQUIPMENT VENDORS FOR EXACT ELECTRICAL REQUIREMENTS.
17. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ALL NECESSARY EQUIPMENT IN ORDER TO PROVIDE A COMPLETE WORKING SYSTEMMENTS.


FIRE SYSTEM NOTES

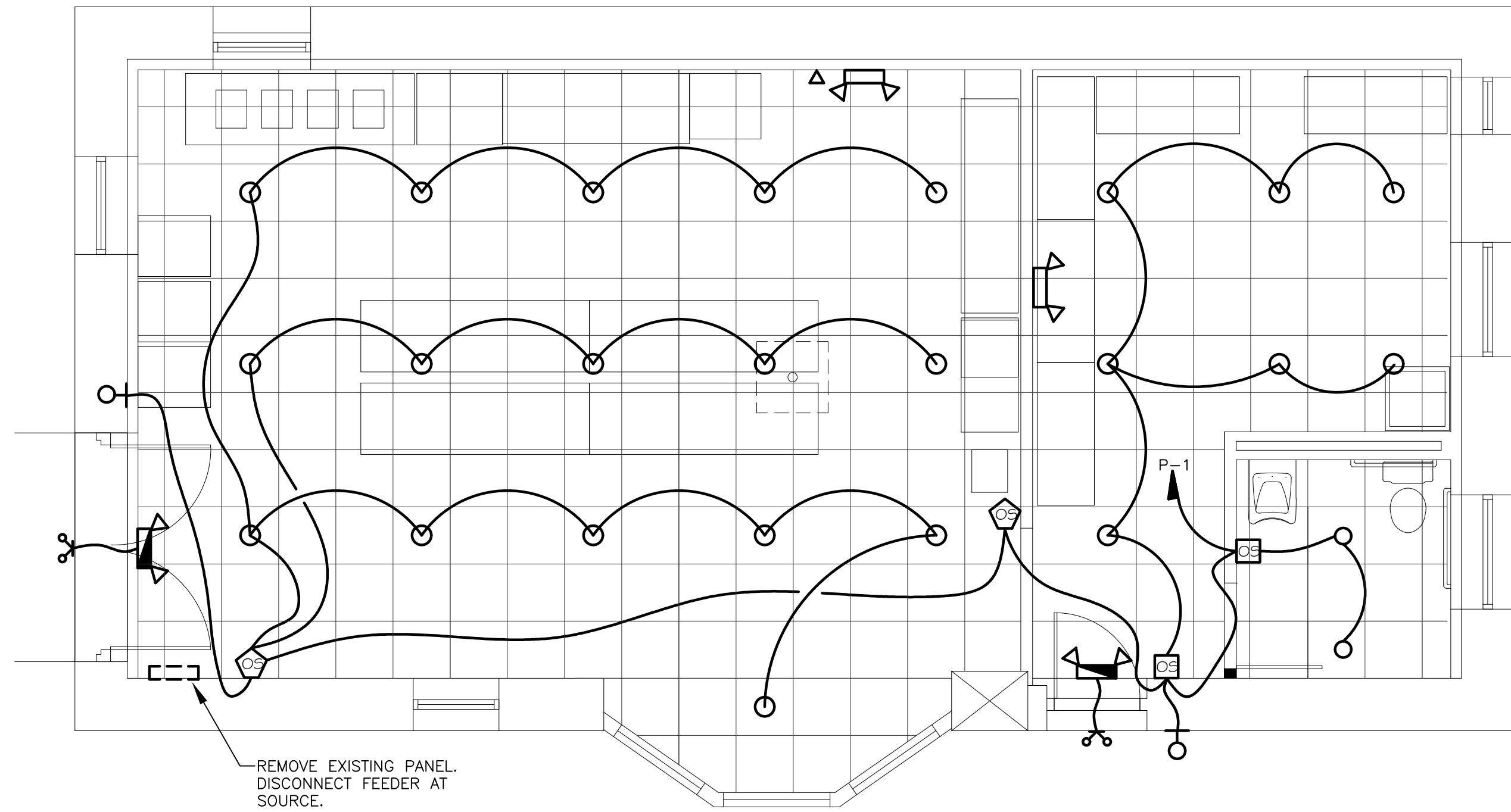
SYMBOL	DESCRIPTION
	NEW CEILING MOUNTED HORN STROBE, WHEELOCK #ET90.
	NEW WALL MOUNTED HORN STROBE, WHEELOCK #ET70.
	NEW WALL MOUNTED STROBE, WHEELOCK #ET60-2152W-FR.
	NEW WALL MOUNTED MANUAL PULL STATION
	NEW CEILING MOUNTED SMOKE DETECTOR
	NEW CEILING MOUNTED COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR

- F1. ALL INSTALLATIONS SHALL CONFORM WITH NFPA-72.
- F2. FIRE ALARM PULL STATIONS, HORN STROBES AND SMOKE DETECTORS TO BE CONNECTED TO NEW FIRE ALARM PANEL LOCATED IN MECHANICAL ROOM.
- F3. ALL FIRE ALARM WIRING SHALL BE A 4-WIRE SUPERVISED SYSTEM AND ROUTED SEPARATELY IN 3/4" MIN. CONDUIT, FROM ANY OTHER WIRING SYSTEM.
- F4. ALL INITIATING AND INDICATING CIRCUITS SHALL BE WIRED CLASS 'B'. ALL INITIATING CIRCUITS SHALL BE #18 AWG MIN., #12 AWG MAXIMUM TWISTED SHIELDED PAIRS. ALL STROBE LIGHT CIRCUITS SHALL BE #16 AWG TWISTED SHIELDED PAIR. ALL AUDIO CIRCUITS SHALL BE #18 AWG TWISTED PAIR.
- F5. MANUAL PULL STATIONS ARE TO BE WALL MOUNTED AT A HEIGHT OF 48" A.F.F.
- F6. WALL MOUNTED HORN STROBES SHALL HAVE THEIR BOTTOM HEIGHTS NO LESS THAN 80" A.F.F. AND NO GREATER THAN 96" A.F.F.
- F7. IN CORRIDORS NOT EXCEEDING 20ft. IN WIDTH, HORN STROBES SHALL BE LOCATED AT NO MORE THAN 15ft. FROM THE END OF THE CORRIDOR WITH A SEPARATION BETWEEN DEVICES NO GREATER THAN 100ft.
- F8. IN CORRIDORS, HORN STROBES SHALL BE RATED NO LESS THAN 15cd.
- F9. IN ROOMS WITH CEILING HEIGHTS NOT GREATER THAN 10ft., HORN STROBES SHALL BE RATED FOR 15cd IN ROOMS UP TO 20ft. x 20ft. AND 30cd FOR LARGER ROOMS. FOR OTHER SPACING REFER TO SECTION 6.4.4.1 & 6.4.4.2 OF NFPA-72. COORDINATE CEILING LOCATIONS WITH MECHANICAL AND ELECTRICAL EQUIPMENT.
- F10.PROVIDE NEW BUILDING FIRE ALARM PANEL, THORN MINIFLEX, SILENT KNIGHT OR EQUAL.
- F11.FIRE ALARM SYSTEM SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION, AND SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL OF THE FOLLOWING WHERE APPLICABLE TO THE SYSTEM BEING INSTALLED:

1. A FLOOR PLAN THAT INDICATES THE USE OF ALL ROOMS.
2. LOCATIONS OF ALARM INITIATING DEVICES.
3. LOCATIONS OF ALARM NOTIFICATION APPLIANCES, INCLUDING CANDELA RATINGS FOR VISIBLE ALARM NOTIFICATION APPLIANCES.
4. DESIGN MINIMUM AUDIBILITY LEVEL FOR OCCUPANT NOTIFICATION.
5. LOCATION OF FIRE ALARM CONTROL UNIT, TRANSPONDERS AND NOTIFICATION POWER SUPPLIES.
6. ANNUNCIATORS.
7. POWER CONNECTION.
8. BATTERY CALCULATIONS.
9. CONDUCTOR TYPE AND SIZES.
10. VOLTAGE DROP CALCULATIONS.
11. MANUFACTURERS' DATA SHEETS INDICATING MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.
12. DETAILS OF CEILING HEIGHT AND CONSTRUCTION.
13. THE INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS.
14. CLASSIFICATION OF THE SUPERVISING STATION.

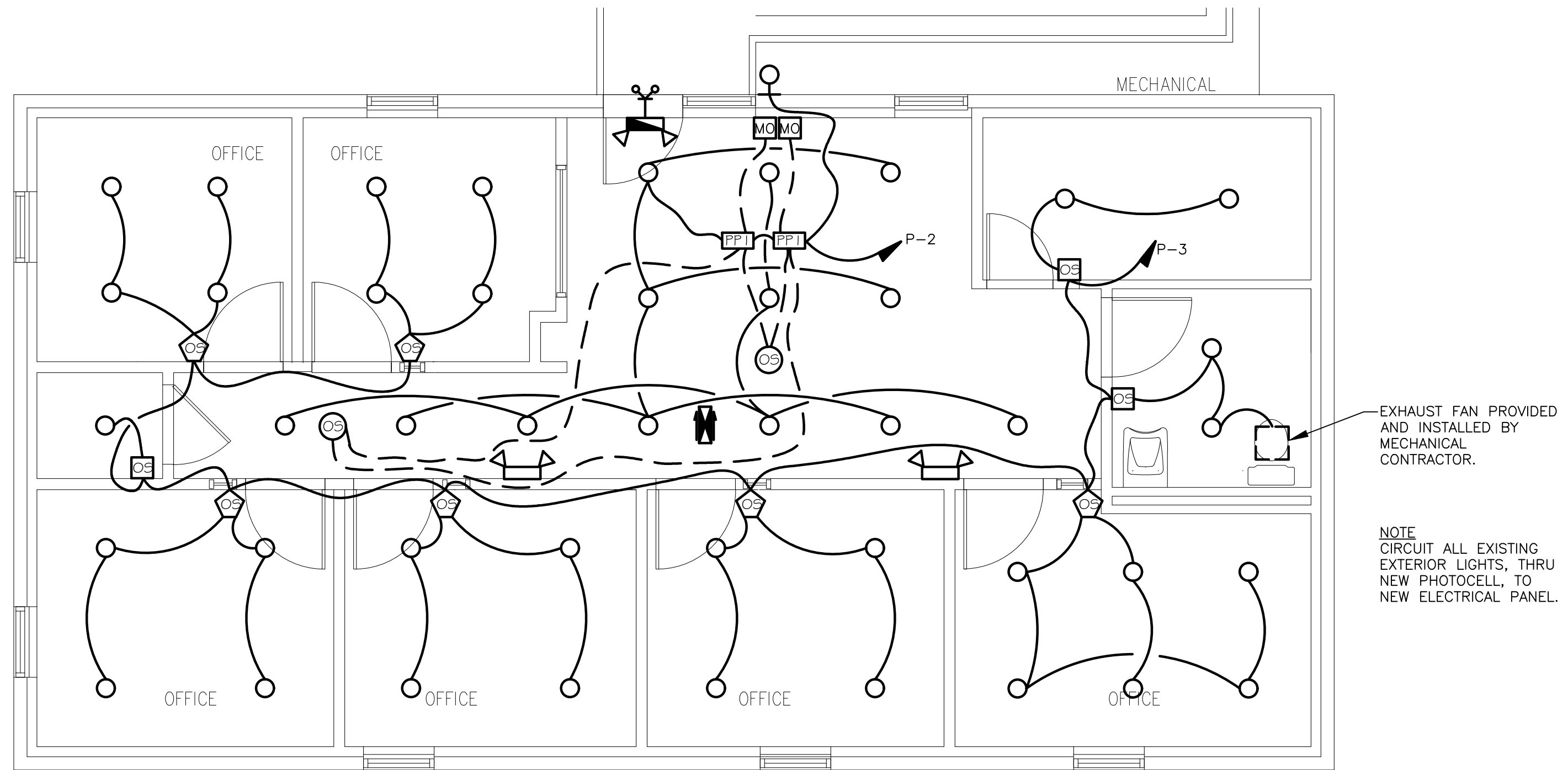
PARK WEST CONSULTING ENGINEERS 4 OAK PLACE BUDD LAKE, NEW JERSEY 07868 PHONE #: (973) 836-1271 JOSEPH B. TAYLOR, P.E.	
NEW JERSEY LIC. NO. 35330	

	7/30/24 BID SET
	7/26/24 REVISED IN ACCORDANCE WITH FIRE OFFICIAL'S 7/23/21 REVIEW LETTER.
REV.	DATE DESCRIPTION
PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE NO 13073	
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470	
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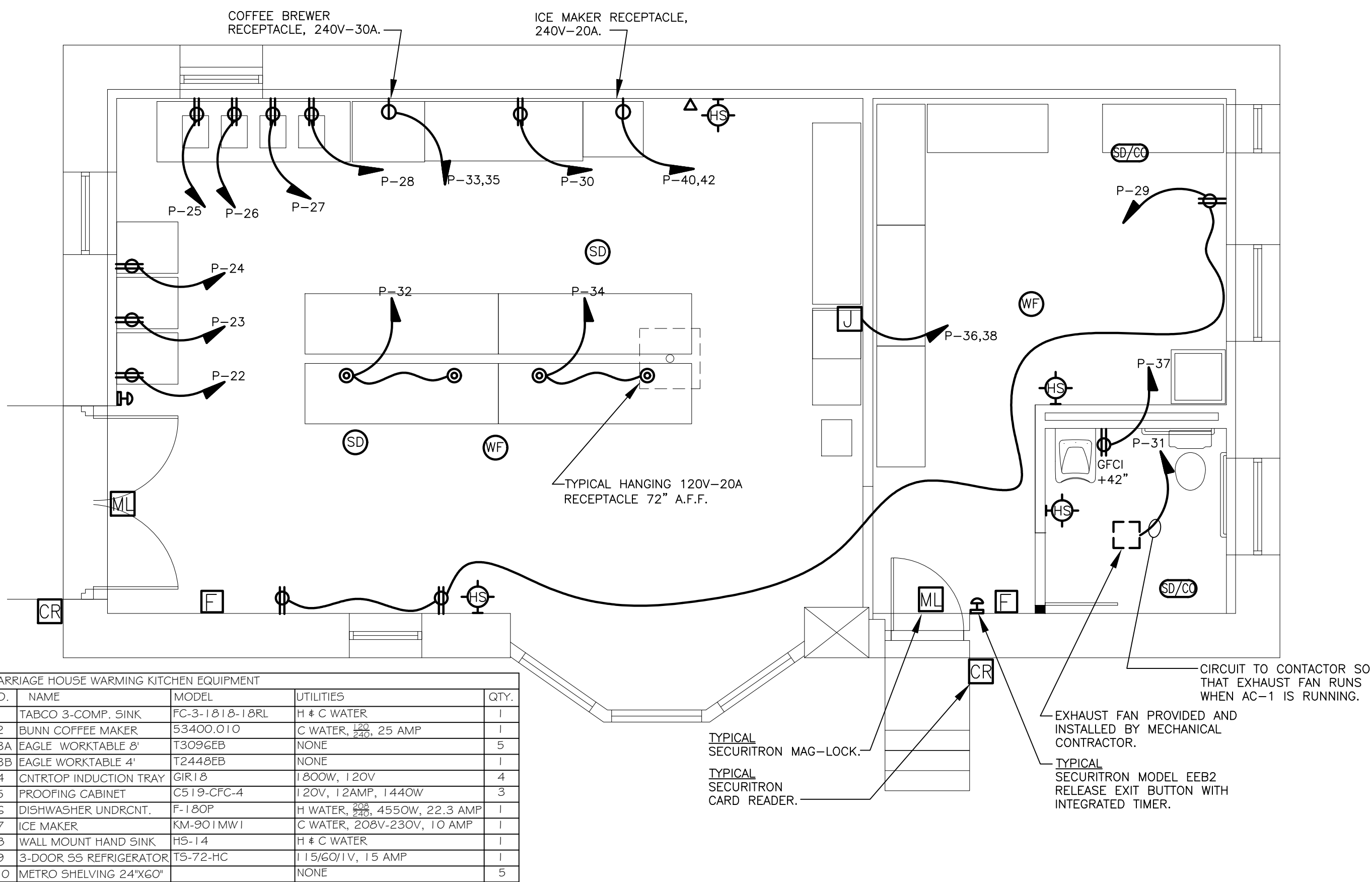
FIRST FLOOR LIGHTING PLAN

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



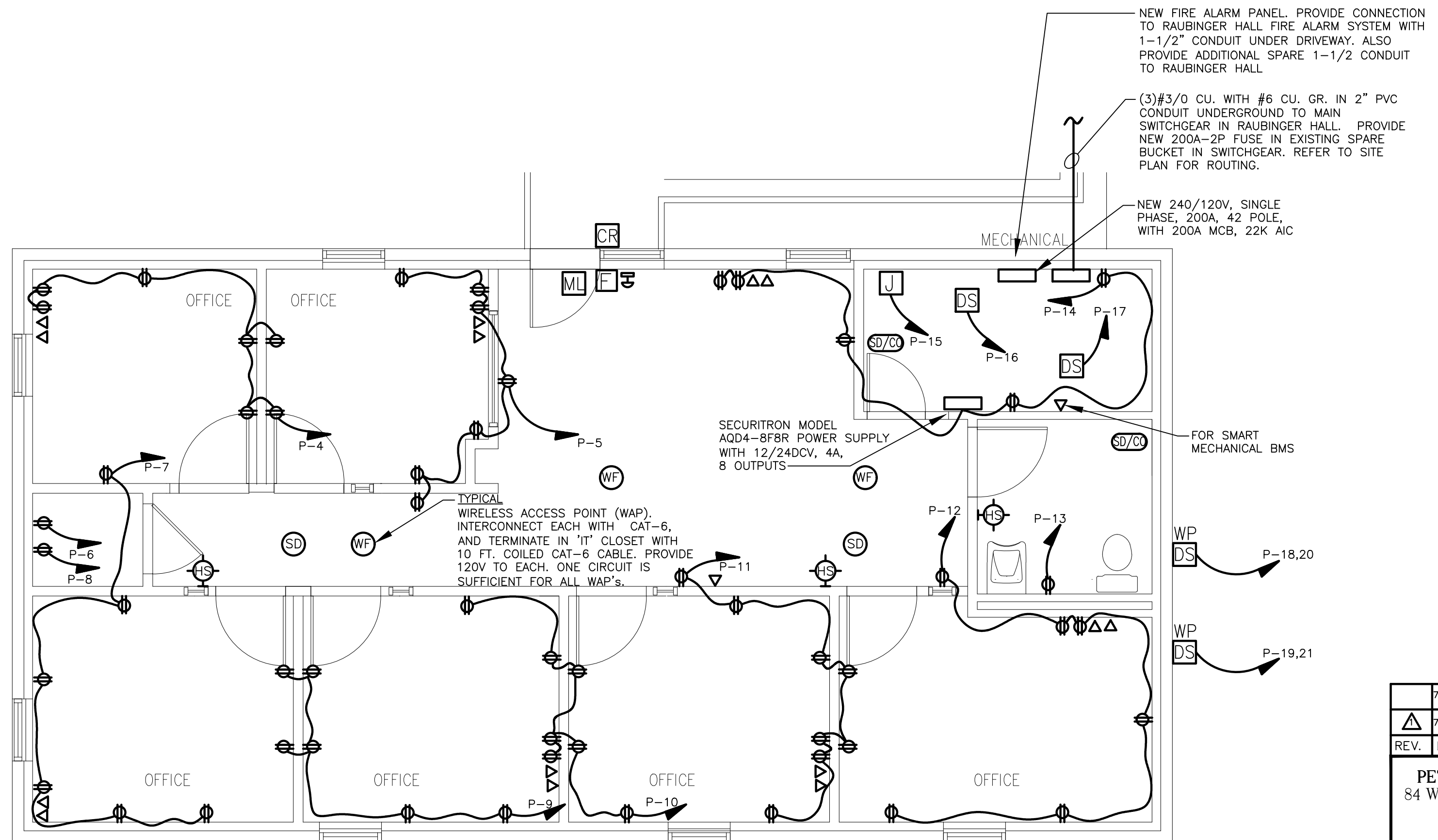
SECOND FLOOR LIGHTING PLAN

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



FIRST FLOOR POWER PLAN

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




SECOND FLOOR POWER PLAN

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

PARK WEST CONSULTING ENGINEERS
4 OAK PLACE
BUDD LAKE, NEW JERSEY 07828
PHONE #: (973) 236-1271
JOSEPH B. TAYLOR, P.E.

NEW JERSEY LIC. NO. 35330

7/30/24 BID SET	
	REVISED IN ACCORDANCE WITH FIRE OFFICIAL'S 7/23/21 REVIEW LETTER.
REV. DATE	DESCRIPTION
PETER JOHNSTON, ARCHITECT, PC 84 WASHINGTON STREET 2ND FLOOR HOBOKEN N.J. 07030 N.J. LICENSE AIO 13073	
PROJECT: UNIVERSITY MAIN CAMPUS CARRIAGE HOUSE WILLIAM PATERSON UNIVERSITY WAYNE, NJ 07470	
TITLE:	RCP AND FLOOR PLANS
ZONING:	DATE: 4-27-2021
REV.:	SCALE: As Noted
	DRAWN BY: J.T.
	DRAWING NO:
E-2	