

ACADEMY BANK LEE'S SUMMIT TENANT IMPROVEMENTS

2070 NW LOWENSTEIN DR
SUITE A
LEE'S SUMMIT, MO 64081

REV	DESCRIPTION	DATE	TENANT:	ARCHITECT:	CIVIL ENGINEER:	MEP ENGINEER	CONTRACTOR
			DICKINSON FINANCIAL CORPORATION 1201 WALNUT STREET KANSAS CITY, MISSOURI 64108 816.472.5244	GENERATOR STUDIO 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM	UHL ENGINEERING INC 7211 W 98TH TERRACE SSTE 110 OVERLAND PARK, KS 66212 913.385.2670 UHLENGINEERS.COM	ADVANCED CONSULTING ENGINEERS 132 KELLEY DR ROGERS, AR 72756 479.631.1712 EXT 101 ADVENGINEERS.COM	SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM

FOR CONSTRUCTION

07.03.2024

1. THE AMERICAN INSTITUTE OF ARCHITECTS STANDARD FORM (AIA DOCUMENT 4201, 2007 EDITION): "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", IS HEREBY MADE A PART OF THESE CONTRACT DOCUMENTS. UNLESS NOTED OTHERWISE IN THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
2. ALL WORK SHALL CONFORM WITH THE APPLICABLE BUILDING CODES, REGULATIONS, OCCUPANCY PERMITS AND ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND APPROVALS BY LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND AN APPLICABLE CODE, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT OF THE DISCREPANCY AND REQUEST AN INTERPRETATION FROM THESE PARTIES PRIOR TO COMMENCEMENT OF THE WORK. SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY CORRECTIVE MEASURES NEEDED TO BRING THE PROBLEM INTO PROPER CONFORMANCE. WITHOUT ADDITIONAL COSTS OR CHARGES TO THE OWNER. PROVIDE COPIES OF ALL TRANSACTIONS TO OWNER.
3. THE GENERAL CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH ALL PERTINENT OPERATING, MAINTENANCE, AND WARRANTY INFORMATION AT THE COMPLETION OF THE PROJECT, BOUND INTO 8-1/2" X 11" THREE-RING NOTEBOOKS, AND PROPERLY IDENTIFIED (4 COPIES REQUIRED).
4. THE GENERAL CONTRACTOR SHALL SUBMIT ALL APPLICATIONS FOR PAYMENT TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE FORM OF THE APPLICATION FOR PAYMENT SHALL BE AIA DOCUMENT G702, SUPPORTED BY AIA DOCUMENT G703A, CONTINUATION SHEET. A 10% RETAINAGE OF EACH APPLICATION FOR PAYMENT SHALL BE WITHHELD BY THE OWNER UNTIL RELEASE OF FINAL PAYMENT, UNLESS NOTED OTHERWISE IN THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR
5. CONTRACT CLOSE-OUT SHALL OCCUR ONLY AFTER THE ARCHITECT HAS PREPARED THE CERTIFICATE OF SUBSTANTIAL COMPLETION AND PUNCH LIST AND THE PUNCH LIST ITEMS HAVE BEEN CORRECTED. THE GENERAL CONTRACTOR SHALL SUBMIT TO THE ARCHITECT MAINTENANCE AND WARRANTY MANUALS, RELEASE OF LIENS, AND "PROJECT RECORD" DRAWINGS WITH HIS FINAL APPLICATION FOR PAYMENT. THE ARCHITECT SHALL PREPARE ANY NECESSARY CHANGE ORDERS REQUIRED TO FINALIZE THE COST OF THE PROJECT BASED UPON THE GENERAL CONTRACTOR'S FINAL SUBMITTALS.
6. CONTRACTOR SHALL PROVIDE & MAINTAIN A REDUNDANT AS-BUILT CONSTRUCTION DOCUMENT SET AT THE SITE. THE OWNER OR THE ARCHITECT RESERVES THE RIGHT TO REVIEW THESE DOCUMENTS ON A WEEKLY BASIS.
7. PROVIDE THE ARCHITECT WITH A COMPLETE COPY OF AS BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.
8. GENERAL CONTRACTOR SHALL FURNISH A COMPLETE LIST OF CHEMICALS TO BE USED IN THE PROJECT ALONG WITH THE MATERIAL DATA SAFETY SHEET ON EACH PRODUCT TO THE ARCHITECT. A COPY SHALL BE KEPT ON SITE FOR REFERENCE.
9. PRIOR TO LEAVING THE SITE DAILY, THE CONTRACTOR IS TO LEAVE THE FACILITY SECURABLE.
10. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
11. ALL WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL REFERENCES TO THE "CONTRACTOR" INCLUDE THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS.
12. SCOPE OF WORK OF ALL TRADES IS TO INCLUDE ALL MATERIALS AND LABOR AS REQUIRED TO TOTALLY COMPLETE THE PROJECT FROM INTERFACE WITH EXISTING CONSTRUCTION THROUGH CONFIGURATION AS INDICATED IN THE CONSTRUCTION DOCUMENTS. ALL WORK SHALL BE COMPLETE AND FUNCTIONAL, CONSISTENT WITH THE DESIGN INTENT AS EXPRESSED IN THESE DOCUMENTS, WHETHER SPECIFICALLY ADDRESSED IN THESE DOCUMENTS OR NOT. ANY QUESTIONS CONCERNING THE COMPLETENESS OF THE WORK SHALL BE ADDRESSED TO THE ARCHITECT.
13. THE GENERAL CONTRACTOR SHALL SEE THAT ALL SUBCONTRACTORS RECEIVE COMPLETE SETS OF WORKING DRAWINGS COORDINATION OF THEIR WORK AND DESCRIPTION OF SCOPE. THE GENERAL CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR COORDINATION OF THE WORK WHEN COMPLETE SETS ARE NOT MADE AVAILABLE TO SUBCONTRACTORS.
14. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.

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15. DESIGN-BUILD CONTRACTORS SHALL COORDINATE SYSTEMS LAYOUT WITH ARCHITECT AND OTHER DESIGN-BUILD CONTRACTORS. FINAL APPROVAL FOR AESTHETIC EFFECT SHALL BE BY THE ARCHITECT.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.

17. CONTRACTOR SHALL NOT MAKE, CAUSED TO BE MADE, OR PERMIT A SUBCONTRACTOR TO MAKE ANY CHANGE TO WHAT IS SPECIFIED ON THE PLAN WITHOUT SPECIFIC AUTHORIZATION OF THE ARCHITECT.

18. THE ARCHITECT IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DELAYS BY THE CONTRACTOR.

19. CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND THE ACTUAL INSTALLATION OF ITEMS FURNISHED BY TENANT/VENDOR OR BY OTHERS.

20. OTHER CONTRACTORS AND THEIR SUBCONTRACTORS MAY BE WORKING ON THE PREMISES SIMULTANEOUS WITH THE DURATION OF THE CONTRACT. NO ACTION SHALL BE TAKEN ON THE PART OF THIS CONTRACTOR OR SUBCONTRACTOR TO IMPEDIE THE ACCESS OR OPERATION OF ANY OTHER CONTRACTOR ON THE PREMISES, UNION, OR NON-UNION.

21. COOPERATE WITH ALL TRADES ON THE PROJECT NOT UNDER CONTRACT TO THE GENERAL CONTRACTOR (I.E. TELEPHONE, COMPUTER INSTALLERS, ETC.) ANY CHANGES OR DELAYS ARISING FROM CONFLICTS BETWEEN SUCH TRADES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

22. DO NOT SCALE DRAWINGS, FOLLOW WRITTEN DIMENSIONS OR KEYED NOTES ONLY. CONTACT ARCHITECT IMMEDIATELY FOR CLARIFICATION IF REQUIRED. VERIFY DIMENSIONS IN THE FIELD. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.

23. ALL WALL DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
a. FINISHED FACE OF PARTITION / WALL.
b. CENTER LINE OF WALL, EQUALS CENTER LINE OF MULLION.
c. TO TOP OF FINISH SLAT FLOOR.
d. TO BOTTOM OF FINISH AT CEILINGS.

24. "MINIMUM" OR "MIN." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT THE APPROVAL OF ARCHITECT.

25. "X" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION OR QUANTITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. VERIFY THE EXACT DIMENSION IN THE FIELD PRIOR TO FABRICATION.

26. "TYPICAL" OR "TYP." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.

27. THE ARCHITECT SHALL HAVE THE RIGHT TO MAKE FIELD ADJUSTMENTS IN ORDER TO MAINTAIN DESIGN INTENT.

28. "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS SHALL BE ACCURATE TO FINISH WALL MATERIAL. CONTACT ARCHITECT PRIOR TO CONSTRUCTION IF FIELD CONDITIONS DO NOT ACCOMMODATE SAID DIMENSION.

29. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE AND FINISH FACES IN THE SAME PLANE, AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.

30. ANY DISCREPANCIES AS TO LOCATION BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS OR BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING FOR CLARIFICATIONS. WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND SHALL NOT IMPACT THE SCHEDULE.

31. THE GENERAL CONTRACTOR SHALL VERIFY SIZE, LOCATION AND CHARACTERISTICS OF ALL WORK AND EQUIPMENT SUPPLIED BY THE OWNER OR OTHERS, WITH THE MANUFACTURER OR SUPPLIER PRIOR TO THE START OF RELATED WORK.

32. INSTALL AND MAINTAIN ALL NECESSARY COVERINGS, PROTECTIVE ENCLOSURES, TEMPORARY DOORS AND PARTITIONS AND DUST BARRIERS TO PROTECT ALL OCCUPANTS AND REPLACE ANY DAMAGES CAUSED BY IMPROPER PROTECTION AT NO ADDITIONAL CHARGE TO OWNER.

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33. WARRANT TO THE OWNER THAT ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, UNLESS OTHERWISE FREE FROM FAULTS AND DEFECTS AND CONFORMS WITH THE CONTRACT DOCUMENTS.

34. CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT. LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.

35. INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK. DISCUSS ANY CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.

36. PROCURE MATERIALS SO AS NOT TO DELAY SUBSTANTIAL COMPLETION. NOTIFY ARCHITECT WITHIN 5 DAYS OF EXECUTION OF CONTRACT OF ANY MATERIAL DELIVERY WHICH WOULD DELAY COMPLETION OF CONTRACT.

37. EXAMINE ALL SURFACES TO DETERMINE THAT THEY ARE SOUND, DRY, CLEAN AND READY TO RECEIVE FINISHES OR MILLWORK PRIOR TO INSTALLATIONS. START OF INSTALLATION SHALL IMPLY ACCEPTANCE OF SUBSTRATE AND SHALL NOT BE GROUNDS FOR CLAIMS IMPROPER PERFORMANCE OF INSTALLED MATERIALS. ADVISE ARCHITECT OF ANY EXISTING CONSTRUCTION NOT LEVEL, SMOOTH AND FLUSH WITH INDUSTRY STANDARDS PRIOR TO START OF CONSTRUCTION WHICH WILL BE DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THAT INSTALLERS WORK.

38. NO UNFINISHED GYPSUM BOARD WORK AND WOOD WORK ALLOWED, INCLUDING BEHIND FURNITURE & ANY EQUIPMENT ITEMS. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SPACKLED, AND SANDED SMOOTH WITH NO VISIBLE JOINTS, PAINT AS SPECIFIED. PROVIDE GALVANIZED METAL CORNER BEADS AND SIMILAR CONCEALED TRIM AT ALL EXPOSED EDGES; USE EXPOSED TRIM ONLY AS APPROVED BY ARCHITECT.

39. OBTAIN THE OWNER'S WRITTEN AUTHORIZATION BEFORE ANY WORK IS PERFORMED OR MATERIAL ORDERED WHICH INVOLVES EXTRA COST OVER AND ABOVE CONTRACT PRICE.

40. "THROUGH-PENETRATION FIRESTOP SYSTEMS" TO BE PROVIDED AT PENETRATIONS THROUGH RATED PARTITIONS AND FLOOR.

41. MANUFACTURERS NAME, TRADEMARK, LOGOS, ETC. SHALL NOT BE VISIBLE TO THE PUBLIC.

42. ALL SECURITY, AUDIO VISUAL, TELEPHONE, AND DATA CABLING SHALL BE PLENUM RATED.

43. FLASH PATCH CONCRETE TO A SMOOTH MONOLITHIC SURFACE. REMOVE ROUGH SPOTS AND PROTRUSIONS.

44. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS ADJOINING SPACES.

45. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER, ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES OF CONSTRUCTION, PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS.

46. 24 HR PRIOR TO OCCUPANCY THOROUGHLY CLEAN ALL SURFACES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIAL AND EQUIPMENT. VACUUM OR MOP ALL FLOORS AND CLEAN WINDOWS.

47. REVIEW PLANS AND PROVIDE BRACING/BLOCKING IN GYPSUM BOARD PARTITIONS AS REQUIRED FOR ALL WALL-MOUNTED ARCHITECTURAL, WOODWORK, CASEWORK, FINISH CARPENTRY, FURNITURE, ETC. ETC. ETC. FOR WOOD BLOCKING PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING UNLESS NOTED OTHERWISE.

48. RECESSED ITEMS SHALL BE INSTALLED FLUSH WITH THE PARTITION UNLESS NOTED OTHERWISE. PARTITION DEPTH SHALL BE ADJUSTED TO ACCOMMODATE DEPTH OF THE RECESSED ITEM AS DIRECTED BY THE ARCHITECT.

49. WORK DAMAGED DURING CONSTRUCTION OR NOT CONFORMING TO SPECIFIED STANDARDS, TOLERANCE OR MANUFACTURERS INSTRUCTIONS FOR INSTALLATION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

50. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH NONMETAL SEPARATOR.

51. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALL PANELS, AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, FLASHED OR WEATHER-STRIPPED AS REQUIRED FOR COMPATIBILITY WITH ADJACENT MATERIALS AND TO PREVENT AIR LEAKAGE AND WATER ENTRY. REFERENCE SPECIFICATIONS FOR SEALANT REQ'S.

Thermal Values	R - Values
Walls	R - 20
Roof / Ceiling Assembly	R - 38
Slab on Grade (Mass) Floor	R - 10 Continuous Insulation
Joist Framed Floors Over Unconditioned Spaces	R - 30
Crawl Space / Basement Wall	R - 10/13
Slab, 2ft Depth	R - 10
Duct Work	R - 8

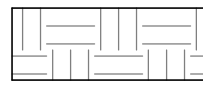
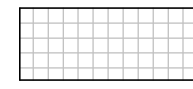

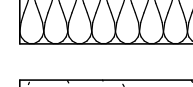

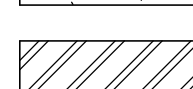
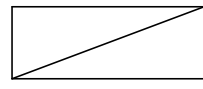
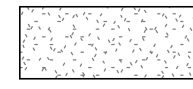
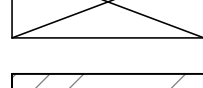
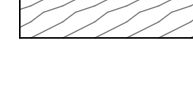



* CEILINGS WITH ATTIC SPACE
**CEILINGS WITHOUT ATTIC SPACE & AREA LESS THAN 500 SQUARE FEET

NOTES:
ALL WINDOW SYSTEMS TO HAVE Lo-E COATING. U-VALUE TO BE 0.38 OR BETTER. SOLAR HEAT GAIN TO BE 0.40 OR BETTER.

ALL EXTERIOR DOORS TO HAVE Lo-E COATING. U-VALUE TO BE 0.77 OR BETTER. SOLAR HEAT GAIN TO BE 0.40 OR BETTER.

ALL THERMAL VALUES (INCLUDE THOSE NOT LISTED) TO COMPLY WITH IECC

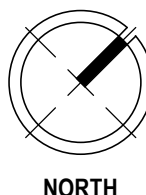
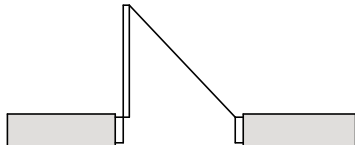
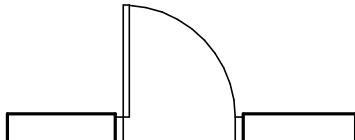
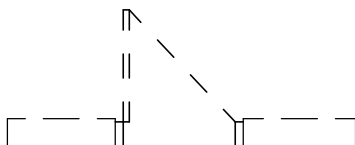
THERMAL REQUIREMENTS

	EARTH		RIGID INSULATION
	AGGREGATE FILL		BLANKET INSULATION
	CONCRETE		GROUT
	CONCRETE MASONRY UNITS		STEEL
	DISCONTINUOUS ROUGH LUMBER		GYPSUM BOARD MORTAR JOINTS
	CONTINUOUS LUMBER		FINISH LUMBER
	PLYWOOD		

GENERAL CONSTRUCTION NOTES

	BREAK LINE	ROOM NAME
	BUILDING SECTION	101 GWB
	WALL SECTION	
	DETAIL	
	DETAIL NUMBER SHEET NUMBER	
	DETAIL REFERENCE	
	ELEVATION NUMBER / SHEET NUMBER	
	LEVEL ELEVATION	
	COLUMN GRID DESIGNATION	
	MATCHLINE ADJACENT REFERENCE	
	1 - HR RATED	
	2 - HR RATED	
	3 - HR RATED	

GRAPHIC SYMBOLS

ROOM NAME ROOM NUMBER		
DOOR NUMBER		NORTH ARROW
CEILING TYPE CEILING HEIGHT		
INTERIOR PARTITION TYPE		EXISTING DOOR
GLAZING TYPE		
DETAIL KEYNOTE		NEW DOOR
CONSTRUCTION NOTE		
REVISION NUMBER		DEMOLISHED DOOR
SURFACE MOUNTED FIRE EXTINGUISHER CABINET		
SEMI RECESSED FIRE EXTINGUISHER CABINET		
FULLY RECESSED FIRE EXTINGUISHER CABINET		
EXISTING CONSTRUCTION		
NEW CONSTRUCTION		
DEMOLISHED CONSTRUCTION		

SHEET LIST

GENERAL	
G000	PROJECT COVER
G001	PROJECT INFORMATION
G002	GENERAL ACCESSIBILITY
G003	INTERIOR ACCESSIBILITY
LIFE SAFETY	
LS101	LEVEL 1 - FLOOR PLAN
ARCHITECTURE	
A101	FLOOR PLAN
A102	REFLECTED CEILING PLAN
A103	FINISH PLAN
A401	INTERIOR ELEVATIONS
A402	MILLWORK DETAILS
A601	SCHEDULES AND DETAILS
ELEC	
E-000	ELECTRICAL LEGEND & ABBREVIATIONS
E-100	LIGHTING PLAN
E-101	POWER PLAN
E-600	ELECTRICAL SCHEDULES
E-700	SPECIFICATIONS
MECH	
M-000	MECHANICAL LEGEND & ABBREVIATIONS
M-100	MECHANICAL FLOOR PLAN & SCHEDULES
M-700	MECHANICAL SPECIFICATIONS
PLUMBING	
P000	LEGEND, GENERAL NOTES & DRAWING INDEX
P100	WATER AND SEWER PIPING MAINS PLAN AND SCHEDULE
P400	ENLARGED DOMESTIC WATER PLUMBING PLAN
P401	ENLARGED SANITARY SEWER PLUMBING PLAN
P500	DETAILS
P600	ISOMETRICS
P700	SPECIFICATIONS

GENERATOR
STUDIO

OWNER

DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MISSOURI 64105
816.472.5244

ARCHITECT

GENERATOR STUDIO LLC
1615 BALTIMORE AVE
KANSAS CITY, MO 64108
816.333.6527
GENERATORSTUDIO.COM

CIVIL ENGINEER

UHL ENGINEERING INC
7211 W 98TH TERRATE STE 110
OVERLAND PARK, KS 66212
913.385.2670
UHLENGINEERING.COM

MEP ENGINEER

ADVANCED CONSULTING ENGINEERS
132 KELLEY DRIVE
ROGERS, AR 72756
479.631.1712 EXT 101
ADVENGINEERS.COM

CONTRACTOR

SOUTHWIND GROUP
1218 ENERGY DRIVE
ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT:	THOMAS JASON PROEBSTLE
LICENSE NO.	A-2002017812



8/14/202

SEAL

**ACADEMY BANK
LEE'S SUMMIT**

2070 NW LOWENSTEIN DR
SUITE A
LEE'S SUMMIT, MO 64081

FOR CONSTRUCTION

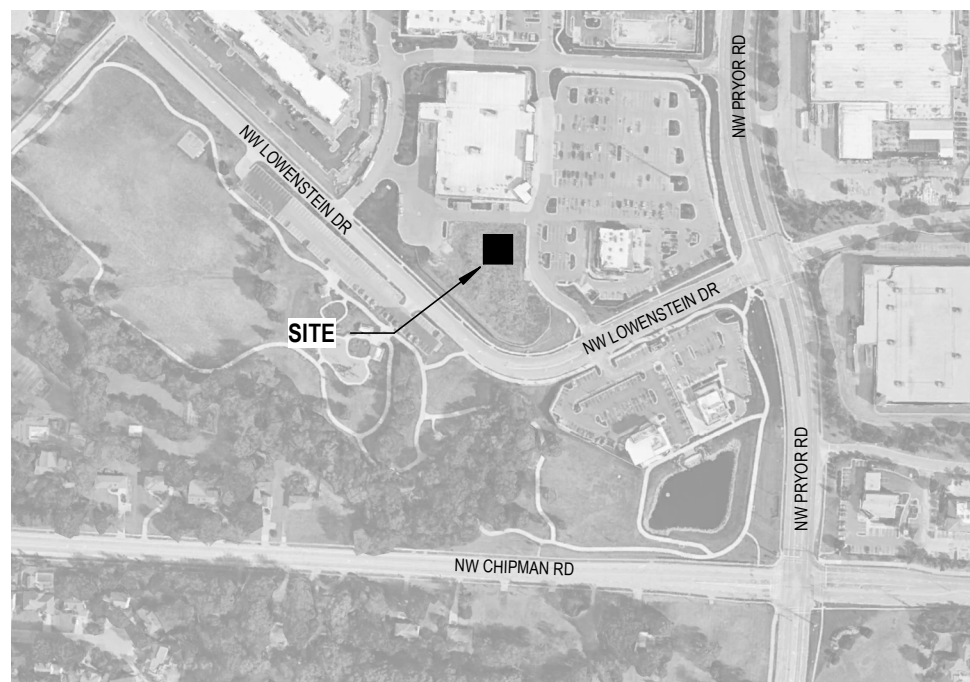
ISSUE DATE:		07.03.2024
REV	DESCRIPTION	DATE

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PROJECT NO.	16014
DRAWN BY:	CG
CHK'D BY:	GE
SHEET TITLE	

PROJECT INFORMATION

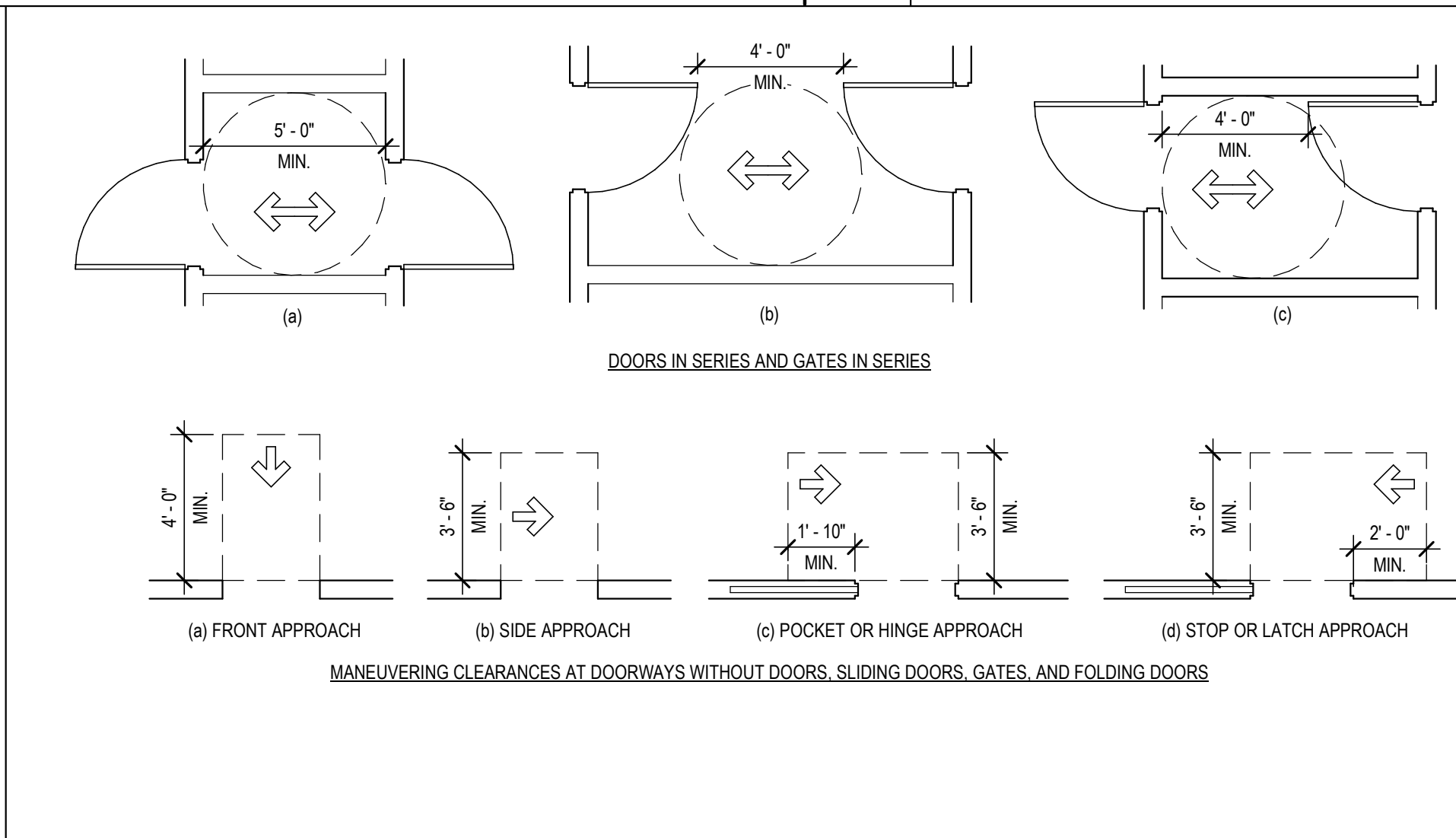
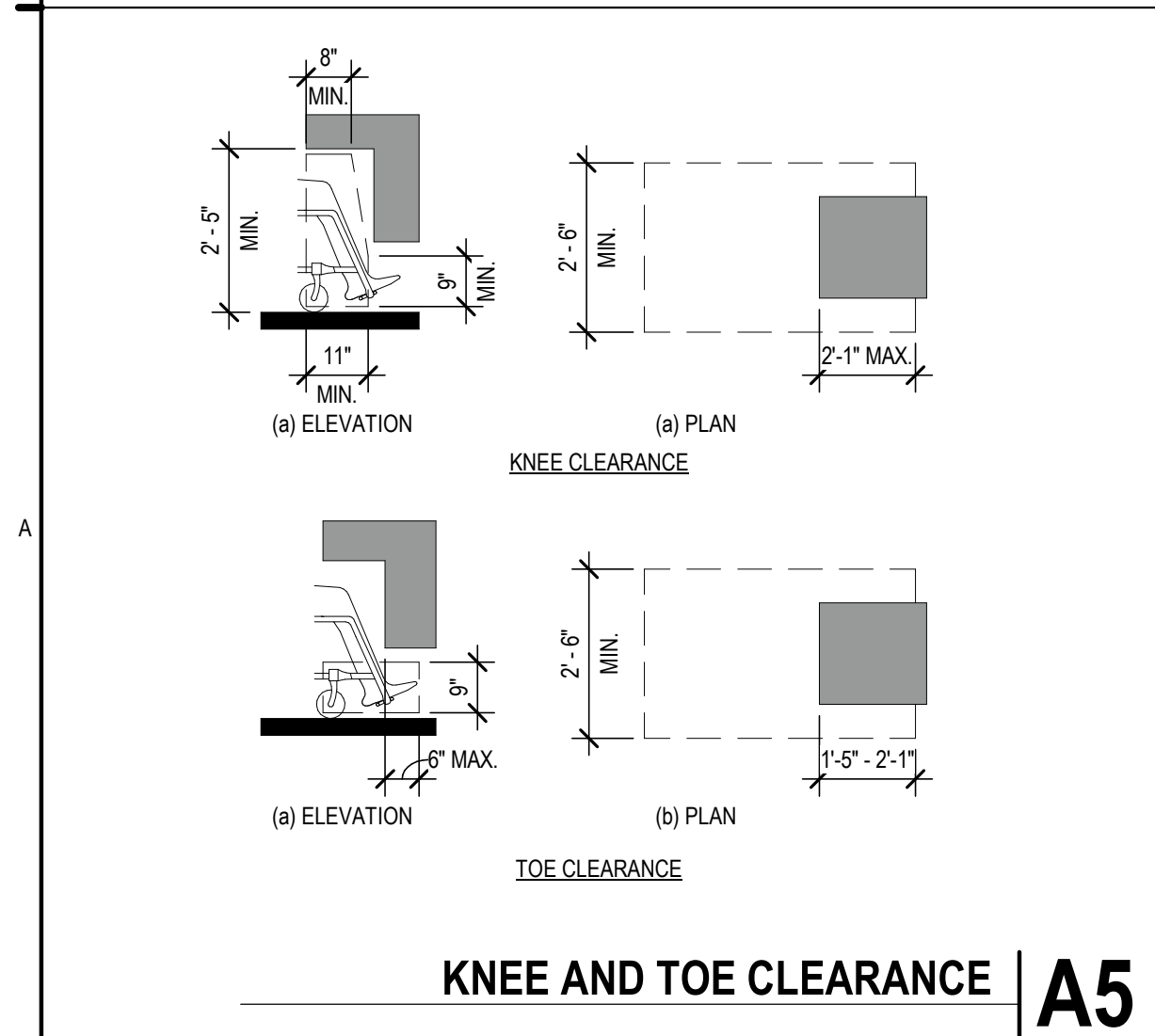
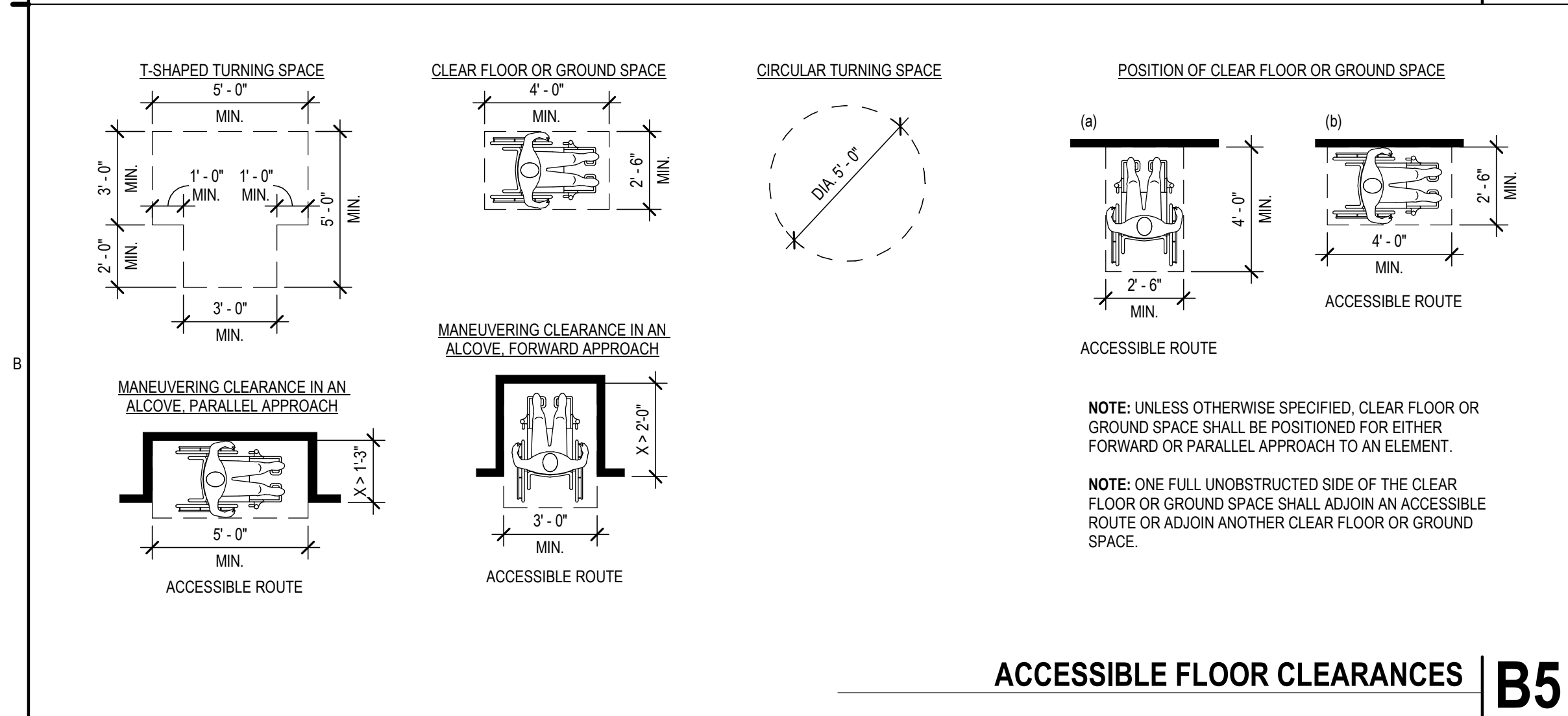
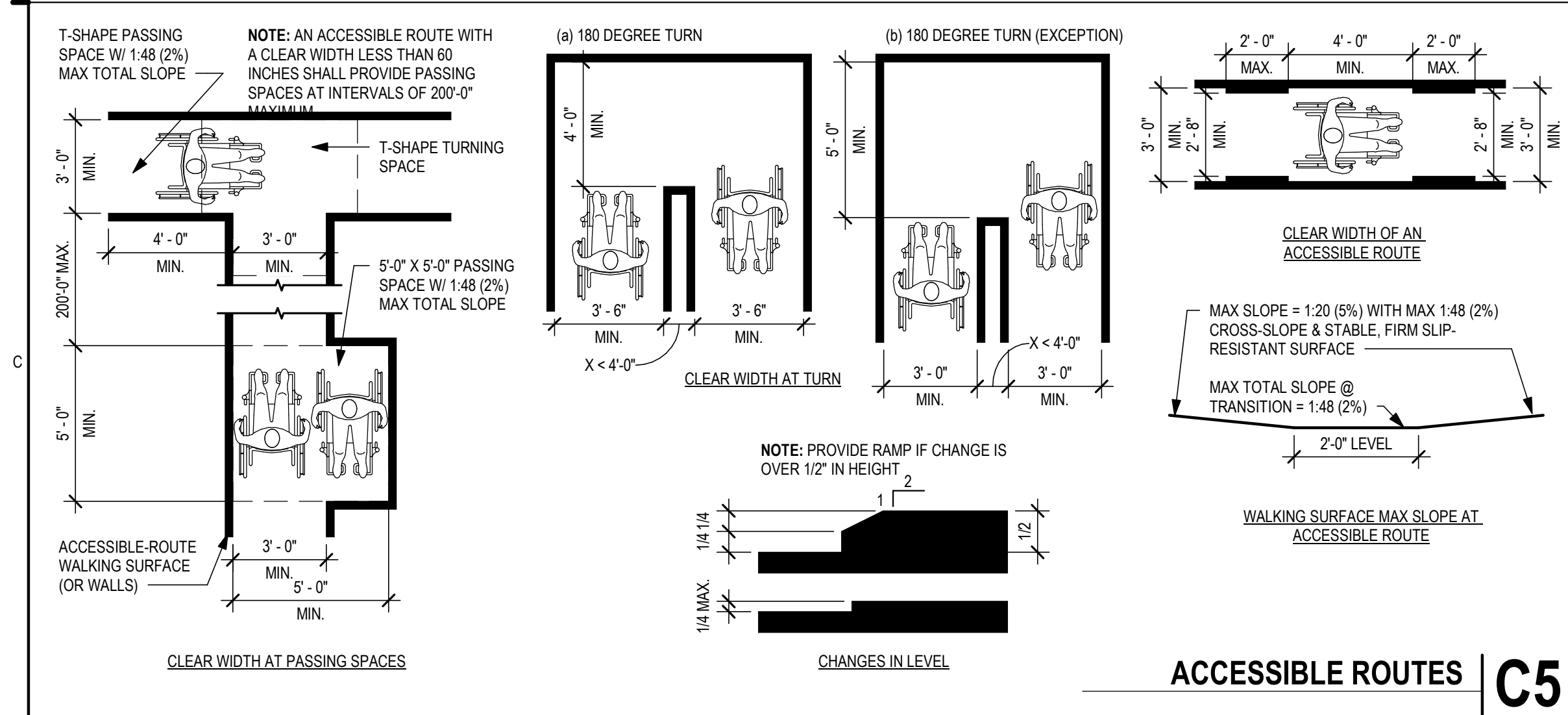
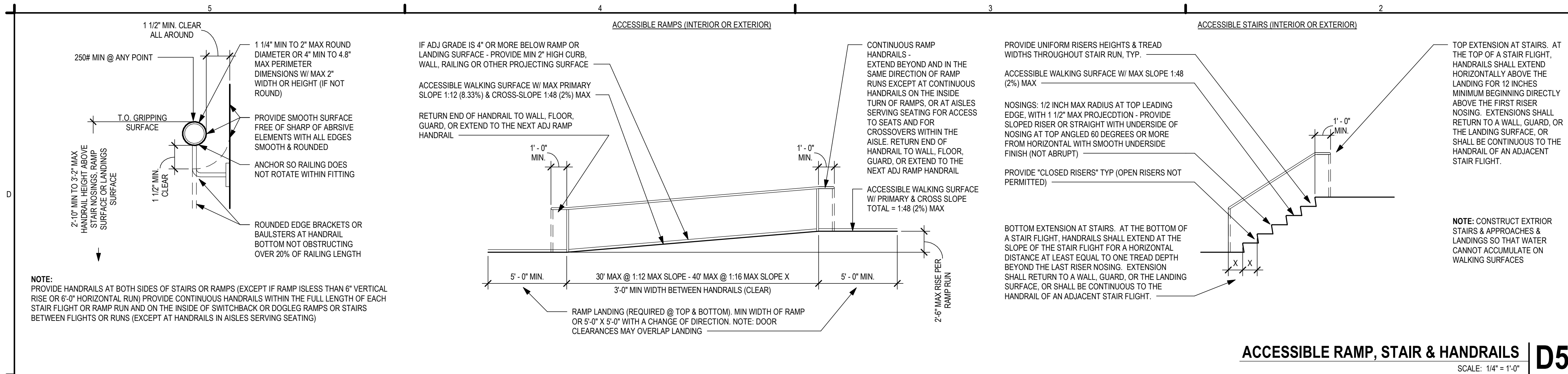
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STANDARD ABBREVIATIONS

SYMBOLS LEGEND

PROJECT INFORMATION



COMPLY WITH REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) EVEN IF NOT REQUIRED BY BLDG CODES, REGULATIONS OR ORDINANCES (ADA IS A FEDERAL LAW), AND AS INDICATED ON THESE DRAWINGS:

ACCESSIBLE ROUTE:
PROVIDE AN ACCESSIBLE ROUTE CONNECTING ALL ACCESSIBLE SPACES AND ELEMENTS, INCLUDING WALKING SURFACES, RAMPS & CURB RAMPS (EXCLUDING THE FLARED SIDES), DOORS & DOORWAYS, AND/OR ELEVATORS & PLATFORM LIFTS. AN ACCESSIBLE ROUTE MAY BE LOCATED AT EXTERIOR WALKS, AISLES, HALLS, CORRIDORS, SKYWALKS OR TUNNELS.

ACCESSIBLE WALKING SURFACES: PROVIDE STABLE, FIRM, & SLIP-RESISTANT SURFACE FINISHES W/ SURFACE OPENINGS (GRATINGS) NOT TO PERMIT PASSAGE OF A 1/2" DIAMETER SPHERE - WITH LONGEST DIMENSION PERPENDICULAR TO DIRECTION OF TRAVEL

MINIMUM WHEELCHAIR TURNING SPACE CAN INCLUDE ALLOWABLE FIXTURE KNEE & TOE CLEARANCES UNO. DOOR SWINGS ARE PERMITTED TO OVERLAP TURNING SPACE UNO.

ACCESSIBLE BLDG ENTRANCES:
PROVIDE 60% (MIN) OF ALL PUBLIC BLDG ENTRANCES (EXCLUDING THOSE FOR LOADING OR SERVICE USE) ACCESSIBLE FROM: ACCESSIBLE PARKING, A PUBLIC TRANSPORTATION STOP, OR FROM A PASSENGER LOADING ZONE (AS APPLICABLE) WITHOUT STEPS OR ABRUPT CHANGES IN LEVEL.

PROVIDE ONE (1 - MIN) ACCESSIBLE BLDG ENTRANCE AT THE GROUND FLOOR LEVEL AND ONE (1 - MIN) ACCESSIBLE ENTRANCE TO EACH PROPOSED TENANT SPACE IN A MULTIPLE-TENANT BLDG.

PROVIDE ACCESSIBLE ENTRANCE AT SERVICE OR LOADING ENTRIES (NOT INTENDED FOR ENTRANCE BY THE PUBLIC) IF THAT IS THE ONLY ENTRANCE TO A SPACE OR BUILDING.

MULTI-LEVEL BUILDINGS: PROVIDE ONE (MIN) ACCESSIBLE ROUTE (INCLUDING AN ELEVATOR TO CONNECT EACH BUILDING LEVEL ABOVE OR BELOW ACCESSIBLE LEVELS INCLUDING MEZZANINES) UNLESS THE FLOOR-AREA IS LESS THAN 3,000 SF AND DOES NOT INCLUDE 5 OR MORE MULTIPLE MERCANTILE (GROUP M) TENANTS, OR THE OFFICES OF HEALTH CARE PROVIDERS.

OPERABLE PARTS:
ACCESSIBLE OPERABLE PARTS INCLUDE CONTROLS AND OPERATING MECHANISMS (DOOR HARDWARE, WINDOW OPERATORS, DISPENSERS, LIGHT SWITCHES, CONVENIENCE OUTLETS, THERMOSTATS, ALARM CONTROLS, AND SIMILAR ELEMENTS).

PROVIDE AN ACCESSIBLE CLEAR-FLOOR SPACE AT ALL OPERATIONAL PARTS

OPERATION: BY USE OF 1 HAND WITH A SINGLE EFFORT WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST - WITH 5.0 POUNDS MAXIMUM OPERATIONAL FORCE. COMPLY WITH ALLOWABLE REACH RANGES FOR HEIGHT OF OPERABLE PARTS.

ACCESSIBLE DOOR & GATE REQUIREMENTS:
REVOLVING DOORS OR GATES ARE NOT ACCESSIBLE.

SECURITY & MAINTENANCE DOORS (INCLUDING SERVICE-ACCESS DOORS) DO NOT NEED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS

DOUBLE-LEAF DOORS OR GATES: ONLY ONE LEAF (MIN) MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS

RECESSED DOORS: PROVIDE FORWARD APPROACH CLEARANCE WITH ANY OBSTRUCTION WITHIN 18 INCH OF LATCH SIDE OF DOORWAY PROJECTING MORE THAN 8 INCHES BEYOND THE FACE OF DOOR MEASURED PERPENDICULAR TO FACE OF DOOR

DOOR SURFACES: PROVIDE SMOOTH SURFACE WITHIN 0'-10" AFF ON PUSH-SIDE EXTENDING FULL WIDTH WITH MAX 1/16" BETWEEN SURFACE PLANE AND ANY PARTS (KICKPLATE), CAP CAVITIES FORMED BY KICKPLATES EXCEPT AT SLIDING DOORS, TEMPERED GLASS DOORS WITHOUT SIDE STILES WITH A BOTTOM RAIL WITH ITS TOP EDGE SLOPED 60° FROM HORIZONTAL OR MORE, OR AT DOORS NOT EXTENDING TO 0'-10" AFF

SIDELITES OR VISION LITES: AT DOORS AND SIDELITES ADJACENT TO DOORS WITH ONE OR MORE GLAZING PANELS PERMITTING VIEWING, PROVIDE BOTTOM EDGE OF AT LEAST ONE PANEL ON EITHER THE DOOR OR THE ADJACENT SIDELITE AT 43" MAX AFF, EXCEPT AT VISION LITES (ONLY) WITH THE LOWEST PART MORE THAN 66" AFF.

ACCESSIBLE DOOR & GATE HARDWARE:
PROVIDE ACCESSIBLE HARDWARE WITH AN EASY-TO-GRASP SHAPE COMPLYING WITH OPERABLE PARTS REQUIREMENTS (LEVERS PUSH/PULLS, OR PANIC DEVICES ARE ACCEPTABLE), MOUNTED BETWEEN 2'-10" AND 4'-0" AFF, WITH MAX PROJECTION (INTO REQUIRED MIN CLEARANCES) OF 4" BTWN 34" - 80" AFF

SLIDING DOOR/GATE HARDWARE: OPERABLE PARTS MUST BE EXPOSED AND USABLE FROM BOTH SIDES WHEN DOOR IS FULLY OPEN

DOOR/GATE CLOSERS: ADJUST UNITS TO PROVIDE 5 SECOND (MIN) TIME TO MOVE DOOR/GATE FROM 90° OPEN-POSITION TO 12° OPEN-POSITION.

DOOR/GATE SPRING-HINGES: ADJUST TO PROVIDE 1-1/2 SECOND MIN TIME TO MOVE DOOR/GATE FROM 70° OPEN-POSITION TO CLOSED-POSITION

OPENING-FORCE OF CLOSERS OR SPRING-HINGES: 5.0 LBS MAX @ INTERIOR HINGED, SLIDING OR FOLDING DOORS OR GATES (NOT APPLICABLE TO LATCH-BOLT RETRACTION FORCE AND NOT APPLICABLE TO OPENING FORCE AT FIRE-DOORS - TO BE AS REQD BY A.J.H.)

AUTOMATIC DOORS OR GATES:
REFERENCED STANDARDS: COMPLY WITH ANSI/BHMA A156.10. AND FOR POWER-ASSIST AND LOW-ENERGY DOORS, COMPLY WITH ANSI/BHMA A156.19 (UNLESS DOORS OR GATES ARE DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL)

COMPLY WITH ACCESSIBLE CLEAR-FLOOR SPACE, THRESHOLD / FLOOR-SURFACE, AND DOORS-IN- SERIES REQUIREMENTS.

MANUAL CONTROLS: COMPLY WITH "OPERABLE PARTS" REQMTS WITH THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SWITCH LOCATED BEYOND THE DOOR/GATE SWING.

ACCESSIBLE WINDOWS:
PROVIDE OPERATIONAL PARTS LOCATED PER "OPERABLE PARTS" REQMTS W/ MIN ACCESSIBLE CLEAR-FLOOR SPACE ADJACENT TO THE WINDOW.
SPECIAL ACCESS (PLATFORM) LIFTS (INTERIOR OR EXTERIOR):
COMPLY WITH ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, SECTION XX (WITH ACCESSIBLE KEY-CONTROLS IF LIFT TRAVEL AREA IS NOT ENCLOSED) AND AS FOLLOWS:
MAX TRAVEL HEIGHT: 60 INCHES
MIN CAPACITY: 400 POUNDS
MIN PLATFORM SIZE: 30 X 46 INCH
MAX SPEED: 20 FPM

ACCESSIBILITY NOTES | B1

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ABILENE, TX 79602
325.695.1111
SOUTHWINDGRP.COM

ARCHITECT: THOMAS JASON PROEBSTLE
LICENSE NO. A-2002017812

STATE OF MISSOURI
THOMAS JASON PROEBSTLE
NUMBER A-2002017812
ARCHITECT
9/14/2024
SEAL

**ACADEMY BANK
LEE'S SUMMIT**

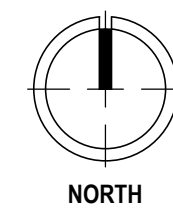
**2070 NW LOWENSTEIN DR
SUITE A
LEE'S SUMMIT, MO 64081**

FOR CONSTRUCTION
ISSUE DATE: 07.03.2024
REV DESCRIPTION DATE

PROJECT NO. 16014
DRAWN BY: CG
CHKD BY: GB
SHEET TITLE

**GENERAL
ACCESSIBILITY
G002**

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A2

A1

LS101

PROJECT NO.	16014
DRAWN BY:	CH
CHK'D BY:	PE
SHEET TITLE	

ISSUE DATE:		07.03.2024
REV	DESCRIPTION	DATE

2070 NW LOWENSTEIN DR
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**ACADEMY BANK
LEE'S SUMMIT**

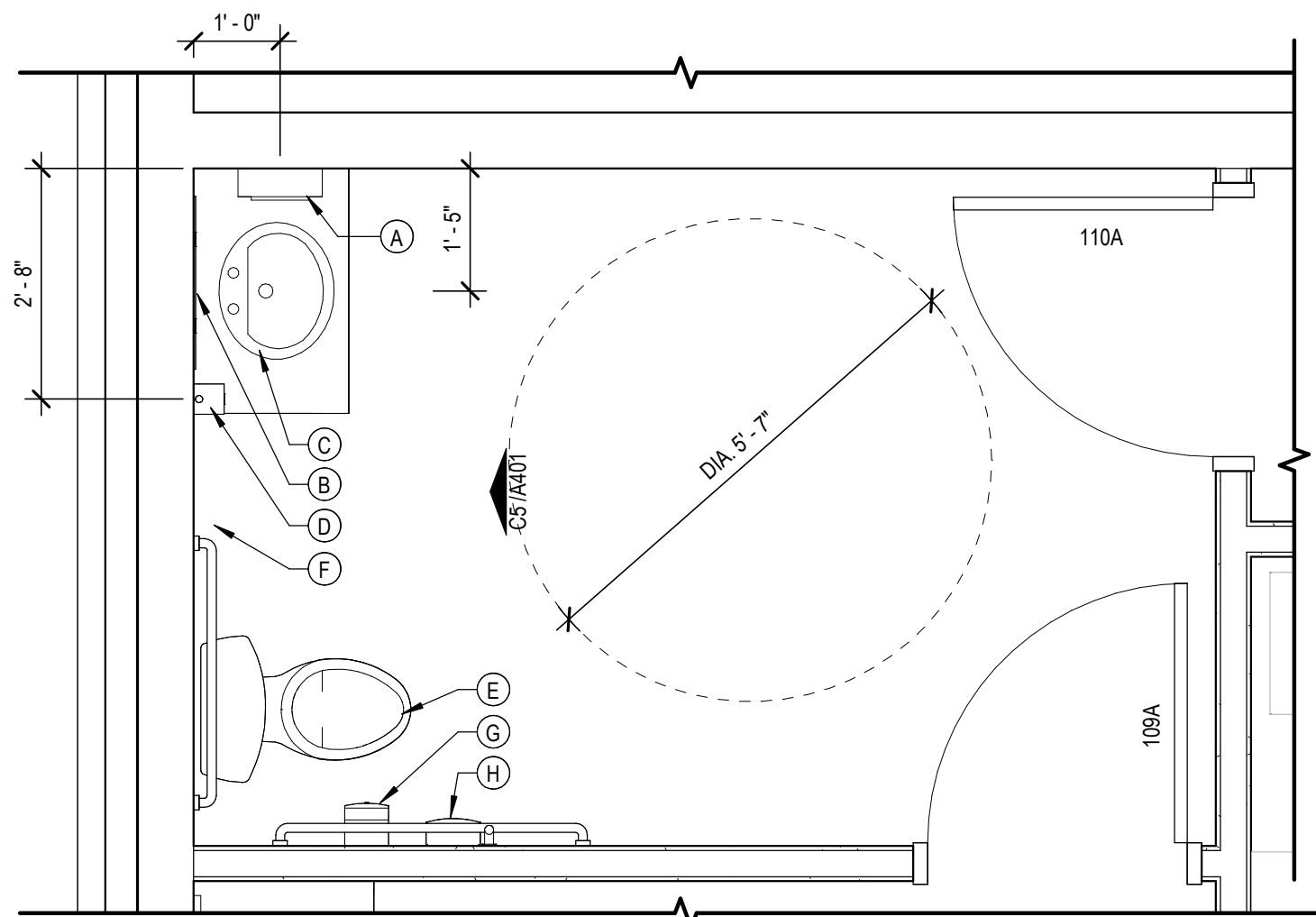
ARCHITECT:	THOMAS JASON PROEBSTLE
LICENSE NO.	A-2002017812

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DICKINSON FINANCIAL CORPORATION
1111 MAIN STREET #1600
KANSAS CITY, MISSOURI 64105
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GENERATOR

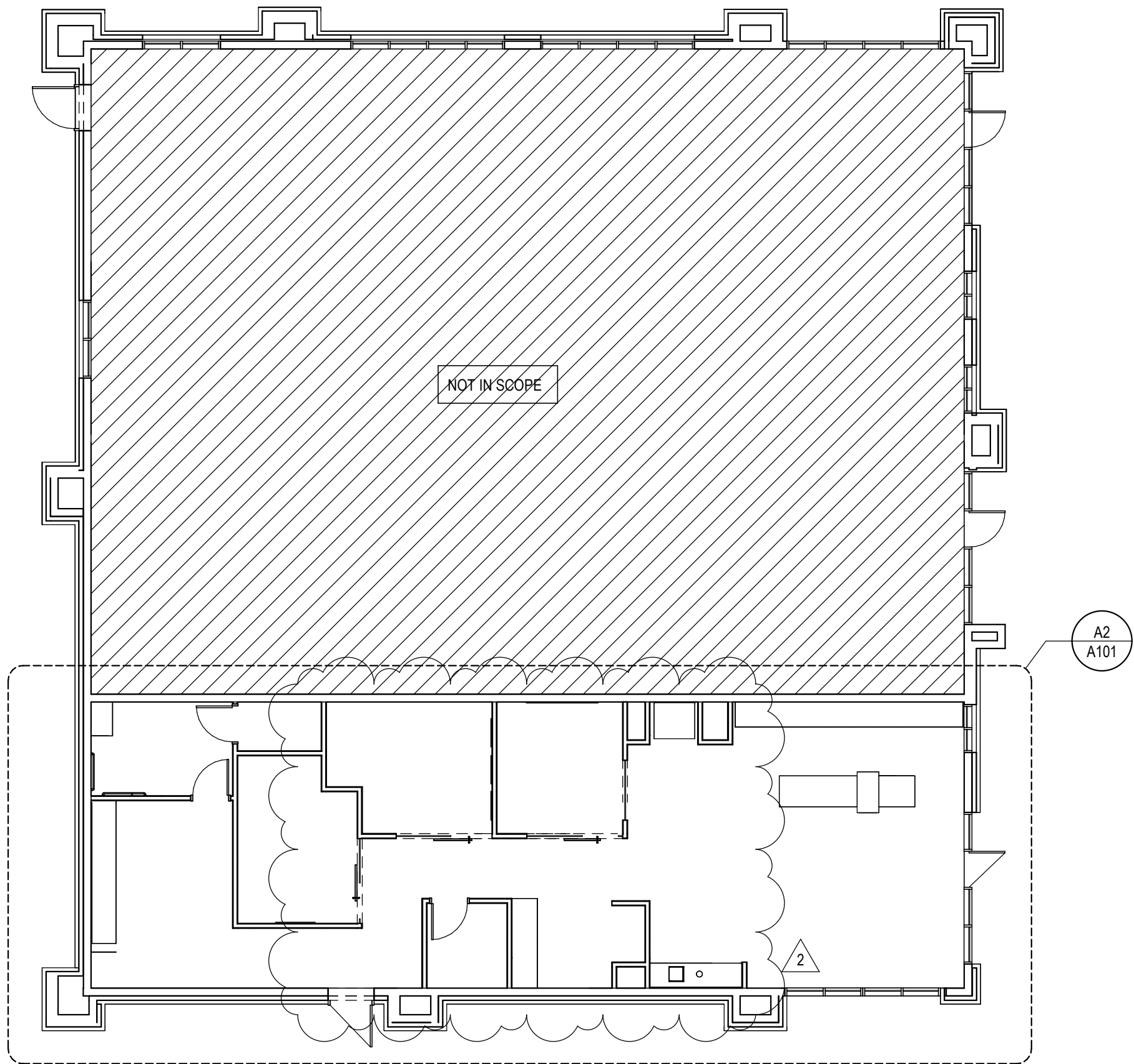
REQ'D	<u>OTHER</u>
PROVIDED	1 SERVICE SINK
	1 SERVICE SINK

FULLY RECESSED FIRE EXTINGUISHER CABINET



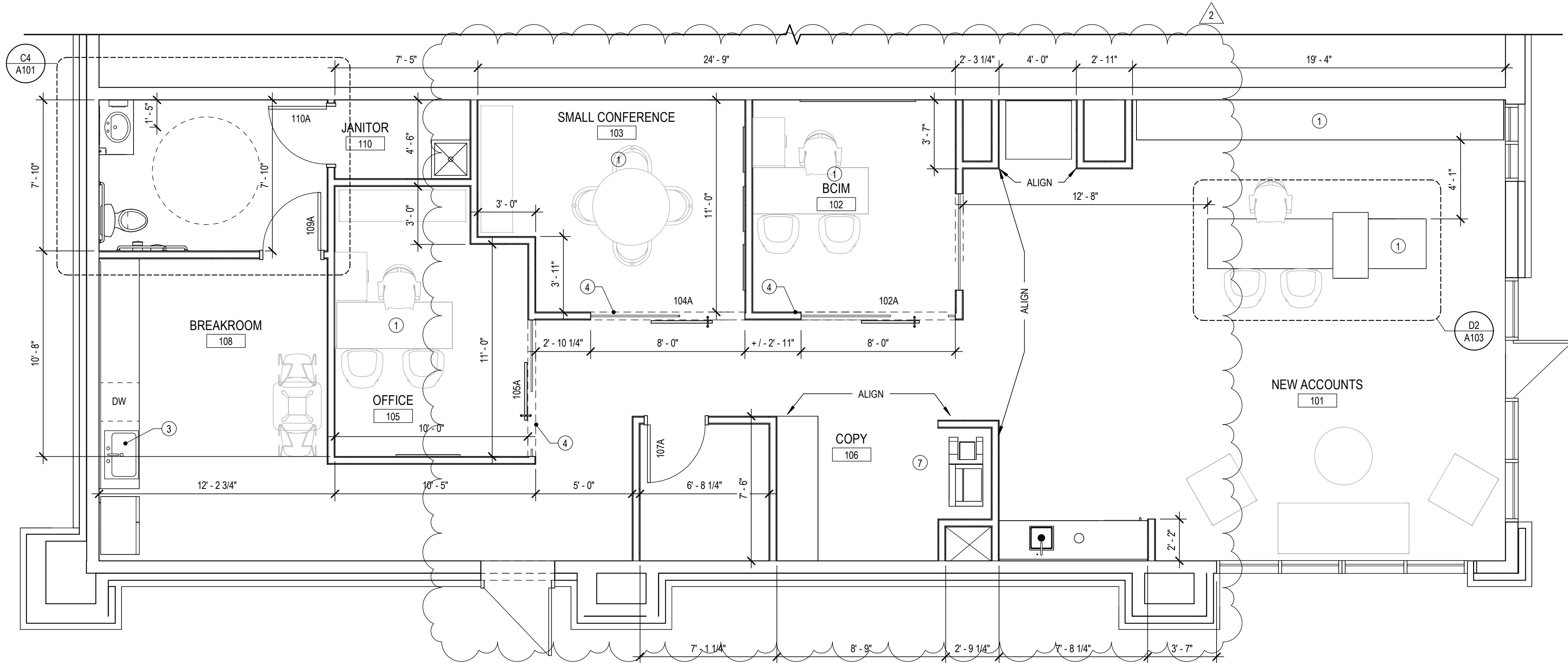
ENLARGED RESTROOM PLAN
SCALE: 1/2" = 1'-0"

C4



SHELL BUILDING PLAN
SCALE: 1" = 10'-0"

C2



T.I. FLOOR PLAN
SCALE: 1/4" = 1'-0"

A2

FLOOR PLAN GENERAL NOTES

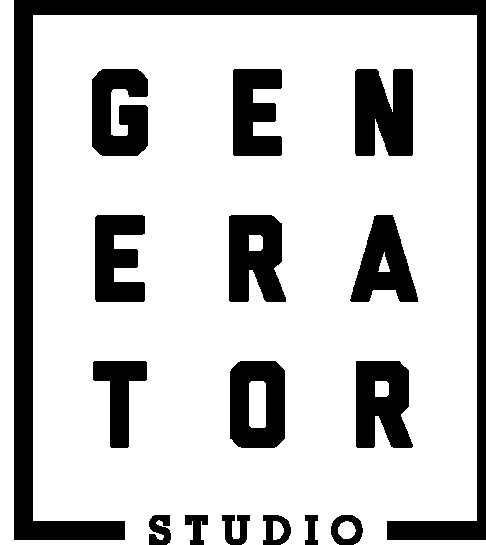
- A. THE CONTRACTOR SHALL TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ITEMS TO REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION AND/OR REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST TO THE OWNER.
- B. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PATCH AND REPAIR OR RESTORE AND REFINISH (AS APPLIES) ALL ADJACENT SURFACES AFFECTED BY NEW CONSTRUCTION.
- C. ALL DIMENSIONS FROM FINISH FACE OF MATERIAL TO FINISH FACE OF MATERIAL UNLESS NOTED OTHERWISE.
- D. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT IF DISCREPANCIES EXISTING THAT WILL EFFECT LAYOUT & DESIGN INTENT.
- E. CONTRACTOR TO VERIFY / COORDINATE REQUIRED CLEARANCES FOR MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT.
- F. PROVIDE CONCEALED BLOCKING FOR ALL WALL MOUNTED ACCESSORIES & EQUIPMENT.
- G. ALL SWITCHES, OUTLETS, DATA & PHONE JACKS TO BE GRAY UNLESS NOTED OTHERWISE. ALL COVER PLATES TO BE BRUSHED SATIN NICKEL UNLESS NOTED OTHERWISE.
- H. REFER TO A601 FOR DOOR SCHEDULE AND DETAILS.
- I. ALL WALL TYPES TO BE A1 U.N.O.

FLOOR PLAN KEYED NOTES

- ① PROVIDE ELECTRICAL OUTLET AND DATA CONNECTION TO SERVE TABLE, DESK AND/OR EQUIPMENT ABOVE. INSTALL IN FLOOR WHERE REQUIRED AND COORDINATE LOCATION TO CONCEAL ACCESS TO GREATEST AMOUNT FEASIBLE. FINAL LOCATION TO BE COORDINATED WITH FINISH PLAN.
- ② PROVIDE HARDWIRE PHONE JACK IN FLOOR. PHONE JACK TO SHARE ACCESS WITH ELECTRICAL OUTLET AND DATA CONNECTION.
- ③ PROVIDE DISPOSAL AT SINK.
- ④ DEMOUNTABLE WALL PARTITION. OWNER FURNISHED, CONTRACTOR INSTALLED 8' TALL.
- ⑤ INSTALL PLUG MOLD FOR POWER AND DATA ON PLAN SOUTH WALL FOR LENGTH OF COUNTER.
- ⑥ INSTALL RECEPTACLE & DATA CONNECTION FOR WALL MOUNTED TV. COORDINATE LOCATION TO CENTER & FULLY CONCEAL OUTLET BEHIND TV MONITOR. FINAL LOCATION TBD. PROVIDE FOR IN WALL RECESS BOX. COORDINATE WITH OWNER AS REQUIRED.
- ⑦ EQUIPMENT PROVIDED BY OTHERS. GC TO COORDINATE POWER & DATA REQUIRED FOR INSTALLATION.

TOILET ACCESSORY KEYED NOTES

- A PAPER TOWEL DISPENSER BOBRICK C 4262 CONTURA SERIES
- B WALL MTD FRAMELESS MIRROR
- C WALL HUNG SINK
- D SOAP DISPENSER
- E FLOOR MTD TOILET
- F GRAB BARS
- G TOILET PAPER DISPENSER BOBERICK B-4288 CONTURA SERIES
- H SANITARY NAPKIN DISPENSER BOBRICK B-270 SERIES



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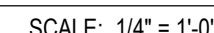
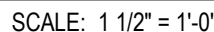
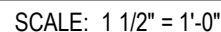
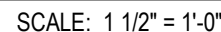
FOR CONSTRUCTION

ISSUE DATE:		07.03.2024
REV	DESCRIPTION	DATE
1	CITY COMMENTS #1	07/03/2024
2	DESIGN CLARIFICATION	08/06/2024

PROJECT NO. 16014
DRAWN BY: CH
CHKD BY: GB
SHEET TITLE

FLOOR PLAN

A101

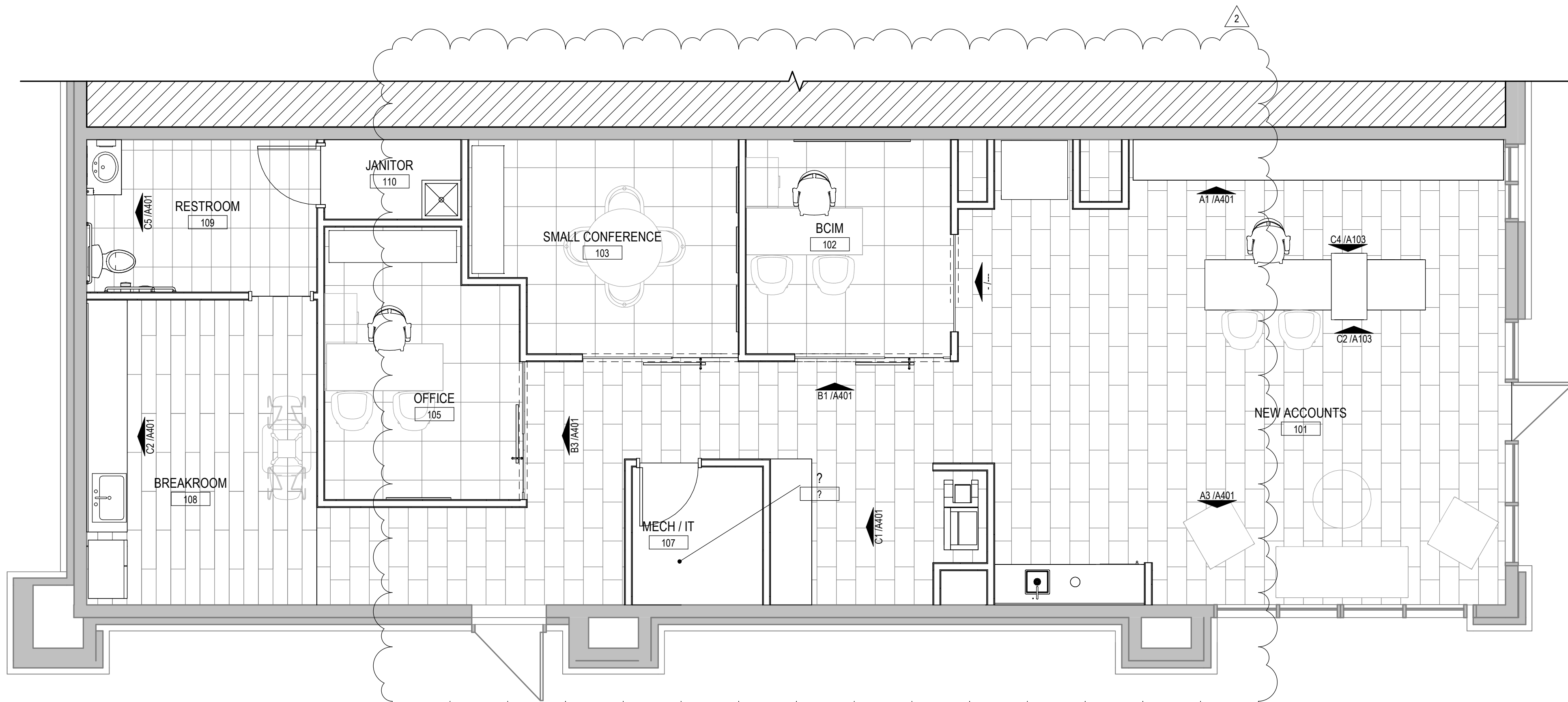
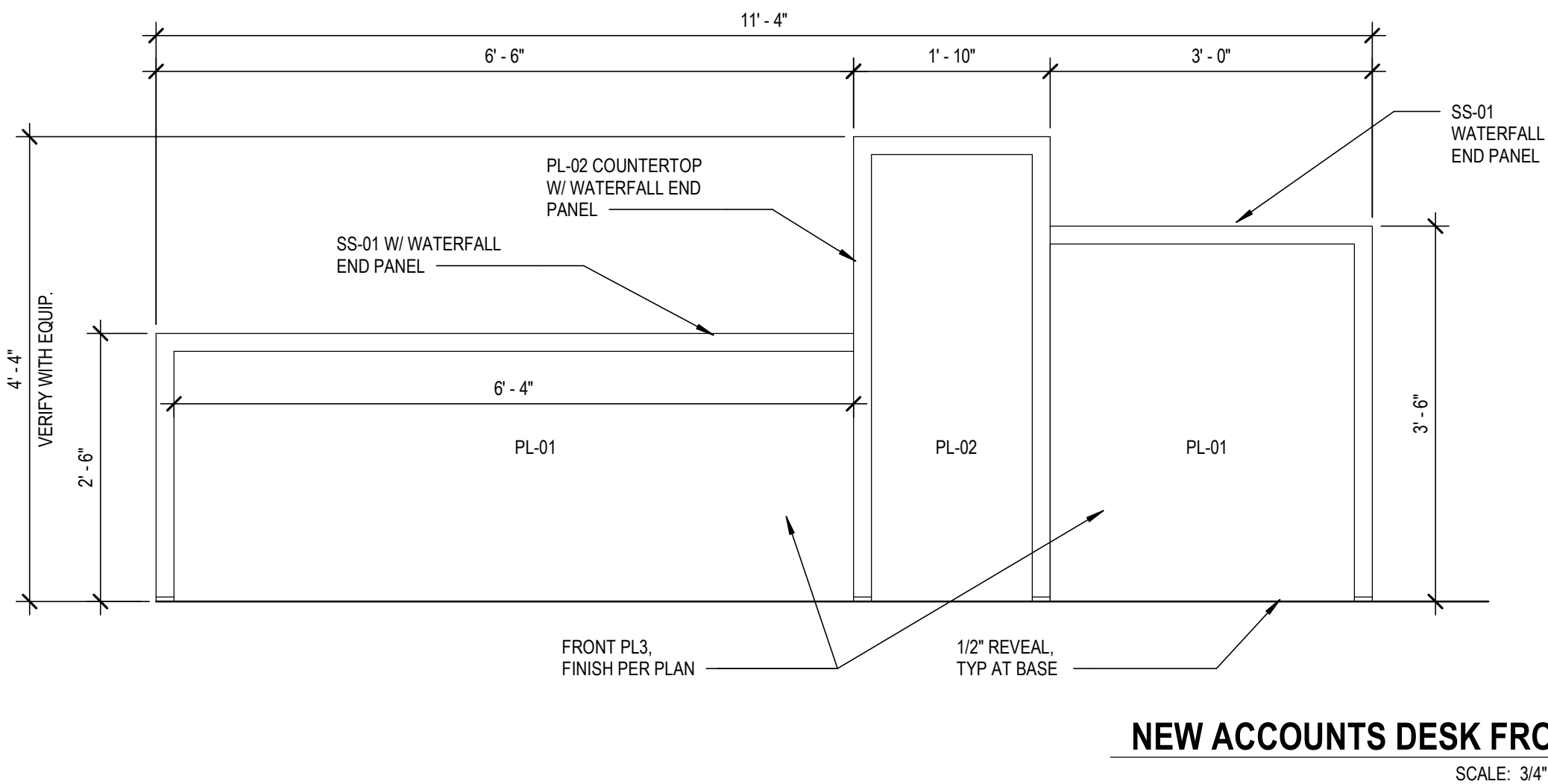
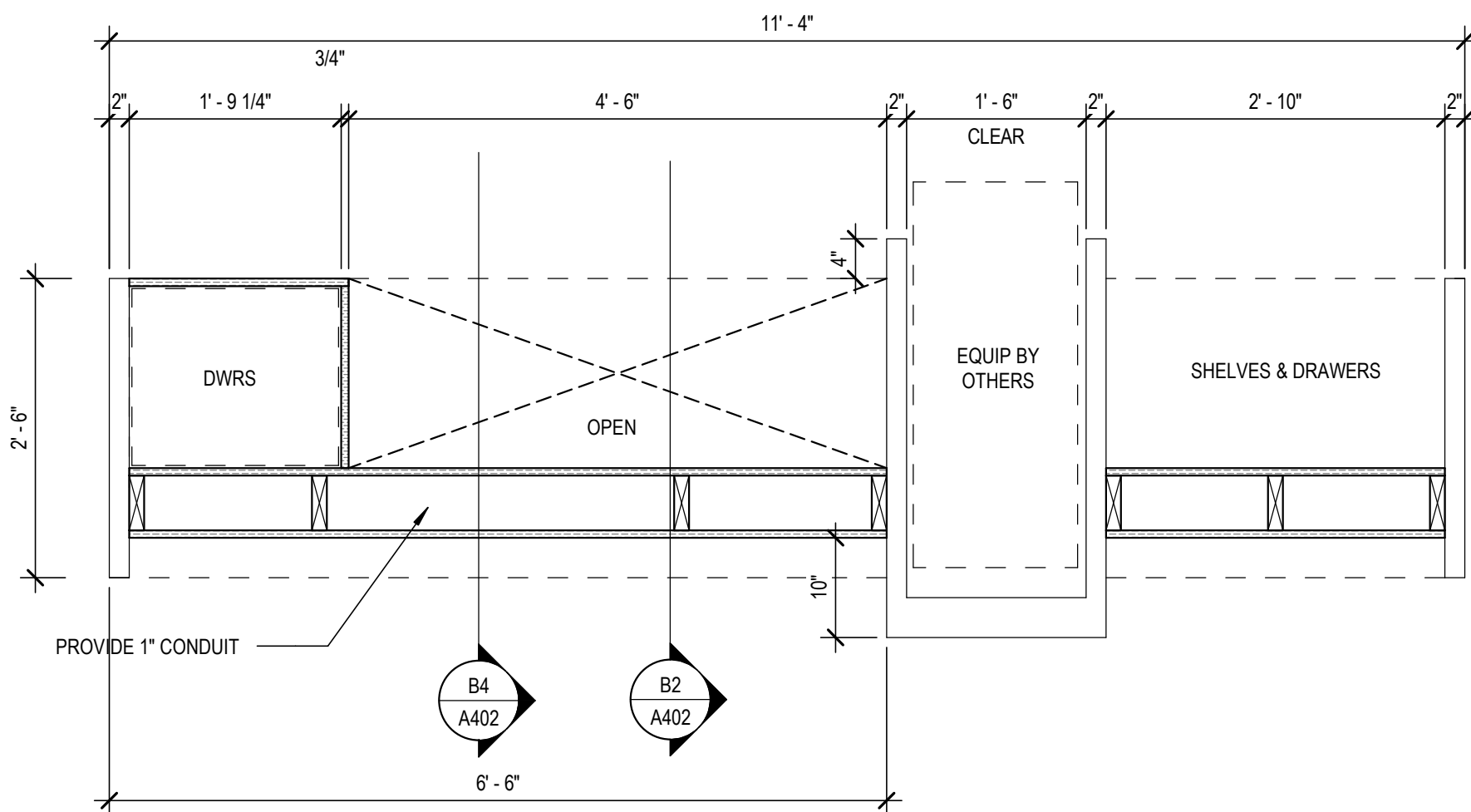
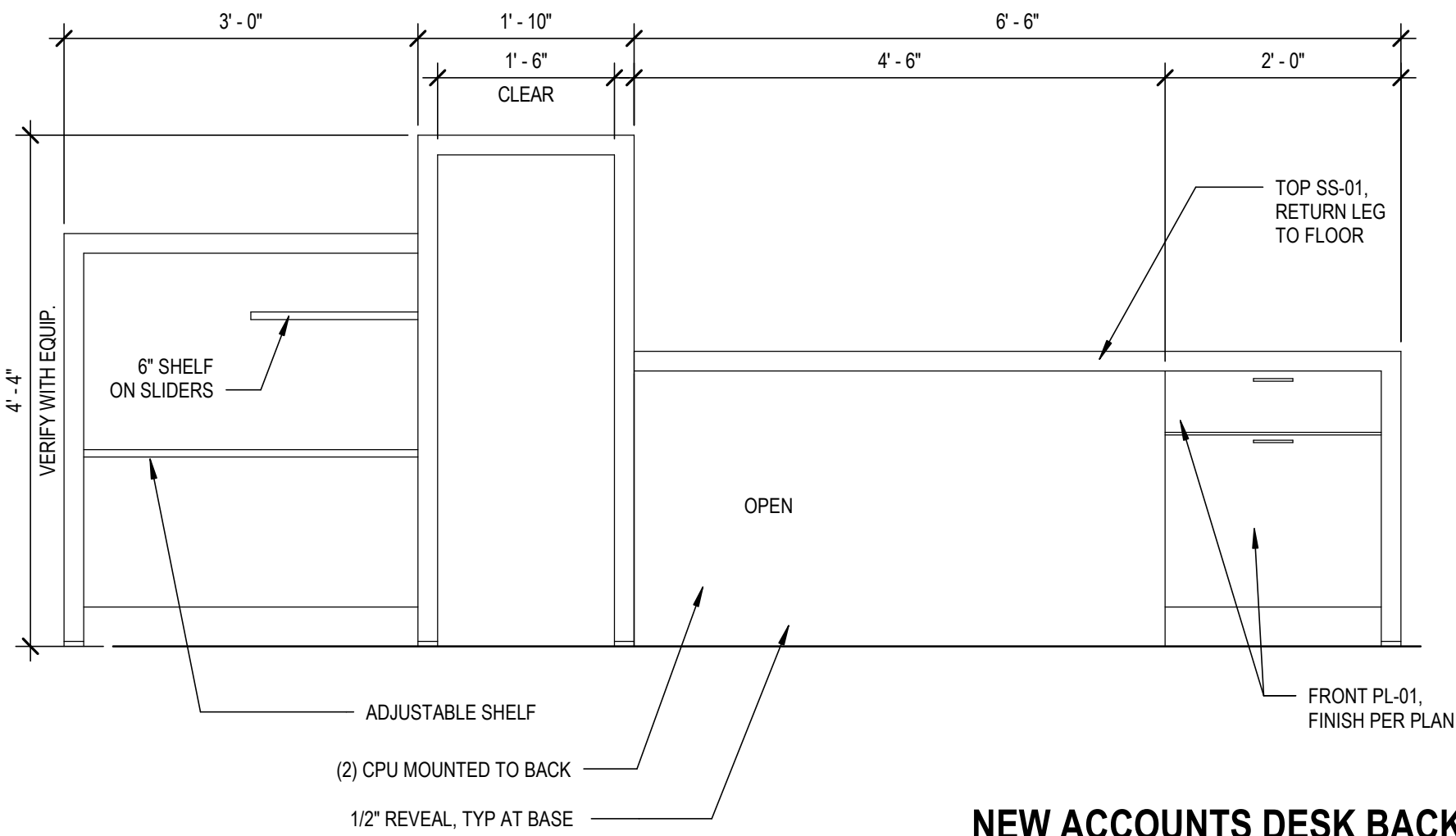


 AREA NOT IN SCOPE

SFAI

A102

ROOM SCHEDULE								
ROOM NUMBER	ROOM NAME	BASE FINISH	FLOOR FINISH	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING FINISH
101	NEW ACCOUNTS	B-01	TL-01	PT-03	PT-01	RE-A3/A401	RE-B1/A401	RE: RCP
102	BCIM	RB-01	CPT-01	PT-03	PT-01	PT-01	PT-01	ACT-01
103	SMALL CONFERENCE	RB-01	CPT-01	WC-01	PT-01	PT-01	PT-01	ACT-01
104	OFFICE	RB-01	CPT-01	PT-03	PT-01	PT-01	PT-01	ACT-01
105	OFFICE	RB-01	TL-02	PT-01	PT-03	PT-01	PT-01	ACT-01
106	COPY	RB-01	TL-01	RE-B1/A401	PT-01	RE-A4/A401	PT-01	ACT-01
107	MECH / IT	RB-01	SC-01	PT-01	PT-01	PT-01	PT-01	ACT-01
108	BREAKROOM	RB-01	LVT-01	PT-01	PT-01	PT-01	RE-C2/A401	ACT-01
109	RESTROOM	B-02	TL-02	TL-02	TL-02	TL-02	TL-02	RE: RCP
110	JANITOR	RB-01	SC-01	PT-04	PT-04	PT-04	PT-04	ACT-01



FINISH PLAN GENERAL NOTES

- ALL WALLS TO BE P1 UNLESS NOTED OTHERWISE ON FINISH PLANS. GWB CEILINGS ARE TO BE PAINTED P3. CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE.
- ALL FLOOR AND WALL FINISHES ARE TO BE PROVIDED AND INSTALLED BY PROFESSIONAL CARPET, TILE AND/OR FLOORING CONTRACTORS.
- CONTRACTOR SHALL ADHERE TO ALL CURRENT MANUFACTURERS PRINTED SPECIFICATIONS FOR APPROVED INSTALLATION METHODS (FOR EXAMPLE, BUT NOT LIMITED TO ADHESIVE TYPES, CUTTING METHODS AND SEAM SEALERS ETC.)
- ALL MATERIALS SHALL BE INSPECTED FOR FLAWS, DEFECTS OR DISCOLORATION PRIOR TO CUTTING.
- ALL CHANGES IN FINISH FLOORING MATERIALS OCCURRING AT DOORWAYS SHALL BE AT THE CENTERLINE OF THE DOORWAY U.N.O. ALL OTHER FLOORS MATERIAL TRANSITIONS SHALL BE ACCOMPLISHED SMOOTHLY TO THE SATISFACTION OF THE ARCHITECT AND OWNER. NO HEIGHT DIFFERENCE IN FLOORING MATERIAL CHANGES PERMITTED. USE ROPPE SUBFLOOR LEVELER OR FLOOR LEVELING COMPOUND TO TAPER AS REQUIRED.
- FURNISH AND INSTALL PROPER METAL TRANSITION STRIPS AT CONNECTIONS BETWEEN CARPET AND TILE.
- CONTRACTOR TO IMMEDIATELY NOTIFY ARCHITECT/DESIGNER OF ANY VISUAL DEFECTS ENCOUNTERED DURING INSTALLATION AND SHOULD NOT PROCEED WITH INSTALLATION OF A DEFECTIVE MATERIAL.
- ALL CABINET DOORS AND DRAWERS SHALL UTILIZE HEAVY DUTY 120 EUROPEAN CONCEALED HINGES, FULL-EXTENSION DRAWER GLIDES FOR FLUSH-OVERLAY CONSTRUCTION. RE: ELEVATIONS FOR PULL TYPES AND SPECIFIC COMPONENTS.
- VINYL WALL COVERING NO SEAM DOWN MIDDLE OF WALL AND NO OPEN EDGES AT CORNERS.

FINISH LEGEND

---	1-HOUR RATED WALL PER CODE
[Pattern]	CARPET 1
[Pattern]	TILE 1
[Pattern]	TILE 2
[Pattern]	LVT 1
[Pattern]	SEALED CONC. FLOOR

CARPET
CPT-01 MANUF: TARKETT
PATTERN: CACHE TWEED
SIZE: 24"x24"
INSTALLATION: VERTICAL ASHLAR
COLOR: SHADOW GRIS 42710
CONTACT: ABBEY HELLAND 816.678.8605

PAINT
PT-01 BENJAMIN MOORE
COLOR: SUPER WHITE OC-152
LOCATION: FIELD PAINT
TYPE: EGGSHELL FOR WALLS; FLAT FOR CEILING

TILE
TL-01 MANUF: CROSSVILLE
PATTERN: SHADES 2.0
SIZE: 12"x24"
COLOR: THUNDER UPS
GROUT COLOR: MAPEI IRON
CONTACT: VIRGINIA TILE
TL-02 MANUF: CROSSVILLE
PATTERN: SHADES 2.0
SIZE: 12"x24"
COLOR: ASH UPS
GROUT COLOR: MAPEI IRON
LOCATION: RESTROOM

PT-02 BENJAMIN MOORE
COLOR: SEAWEEED 2035-10
LOCATION: ACCENT
TYPE: EGGSHELL
PT-03 BENJAMIN MOORE
COLOR: KITTY GRAY 1589
LOCATION: ACCENT
TYPE: EGGSHELL
PT-04 BENJAMIN MOORE
COLOR: SUPER WHITE OC-152
LOCATION: WET WALL
TYPE: EPOXY

VINYL FLOORING
LVT-01 MANUF: BENTLEY MILLS
PATTERN: MEMORY
COLOR: CRAFTSMAN 801980
SIZE: 9' X 48"
INSTALLATION: RANDOM
CONTACT: ALI SKILLING 913.387.9668

SOLID SURFACE
SS-01 MANUF: CORIAN
COLLECTION: CORIAN QUARTZ
COLOR: COARSE CARRARA
CONTACT: KRISTY RINNE 314.254.6634

BASE
RB-01 MANUF: JOHNSONITE
TYPE: RUBBER BASE - COVE
COLOR: WHITE
B-01 WOOD BASE PAINTED TO MATCH WALL
PAINT COLOR RE: C1/A601 FOR DETAIL
B-02 MANUF: CROSSVILLE
TYPE: TILE BASE TO MATCH FLOOR
COLOR: ASH
LOCATION: RESTROOMS

PLASTIC LAMINATE
PL-01 MANUF: WILSONART
STYLE: MATTE FINISH
COLOR: FROSTY WHITE -1573-60
CONTACT: MANDY BRIDGES 913.484.2691
PL-02 MANUF: WILSONART
STYLE: MATTE FINISH
COLOR: NORTH SEA D90-60
CONTACT: MANDY BRIDGES 913.484.2691
PL-03 MANUF: WILSONART
COLOR: FAWN CYPRESS 8208K-16
CONTACT: MANDY BRIDGES 913.484.2691

ACOUSTICAL CEILING TILES

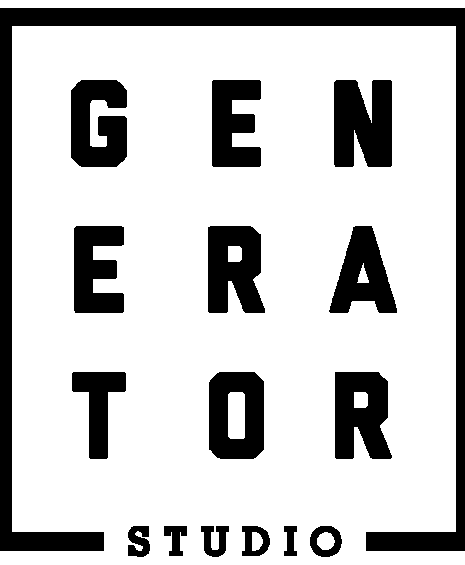
ACT-01 MANUF: ARMSTRONG
STYLE: ULTIMA 24X24
COLOR: WHITE
9/16" GRID

WOOD

WD-01 SPECIES: WHITE OAK
GRAIN: STRAIGHT GRAIN, HORIZONTAL
ORIENTATION
STAIN: TO MATCH ARCHITECTS SAMPLE

VINYL WALL COVERING

WC-01 MANUF: KOROSEAL WALLTALKERS
STYLE: MAG RITE II
COLOR: WHITE
TRIM: J-CAP
CONTACT: AMY NEUSAL 816-728-3971
NOTE: FEATHER WALL AS NEEDED FOR MARKERBOARDS TO BE FLAT AT TRANSITION TO J-CAP. TO BE INSTALLED STARTING 30" AFF



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PROJECT NO. 16014
DRAWN BY: CH
CHKD BY: PB
SHEET TITLE

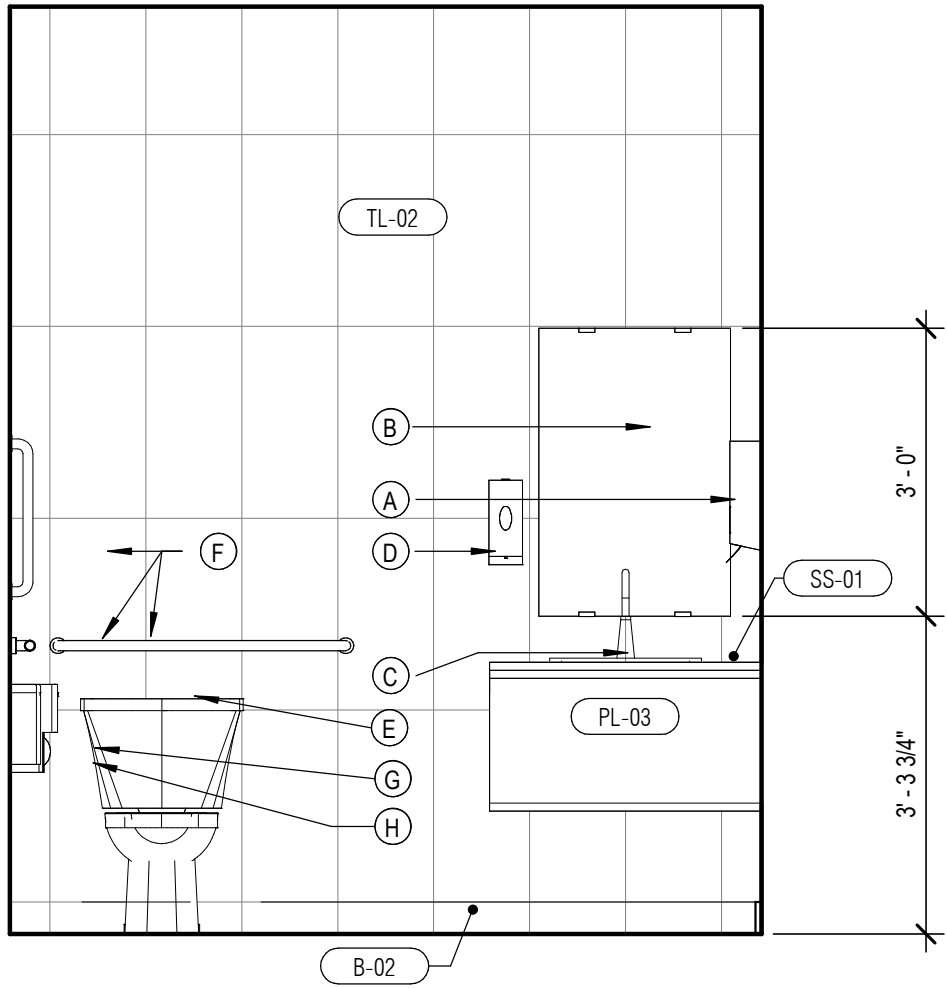
FINISH PLAN

A103

TOILET ACCESSORY KEY NOTES

- A PAPER TOWEL DISPENSER BOBRICK C 4262 CONTURA SERIES
B WALL MTD FRAMELESS MIRROR
C WALL HUNG SINK
D SOAP DISPENSER
E FLOOR MTD TOILET
F GRAB BARS
G TOILET PAPER DISPENSER BOBERICK B-4288 CONTURA SERIES
H SANITARY NAPKIN DISPOSAL

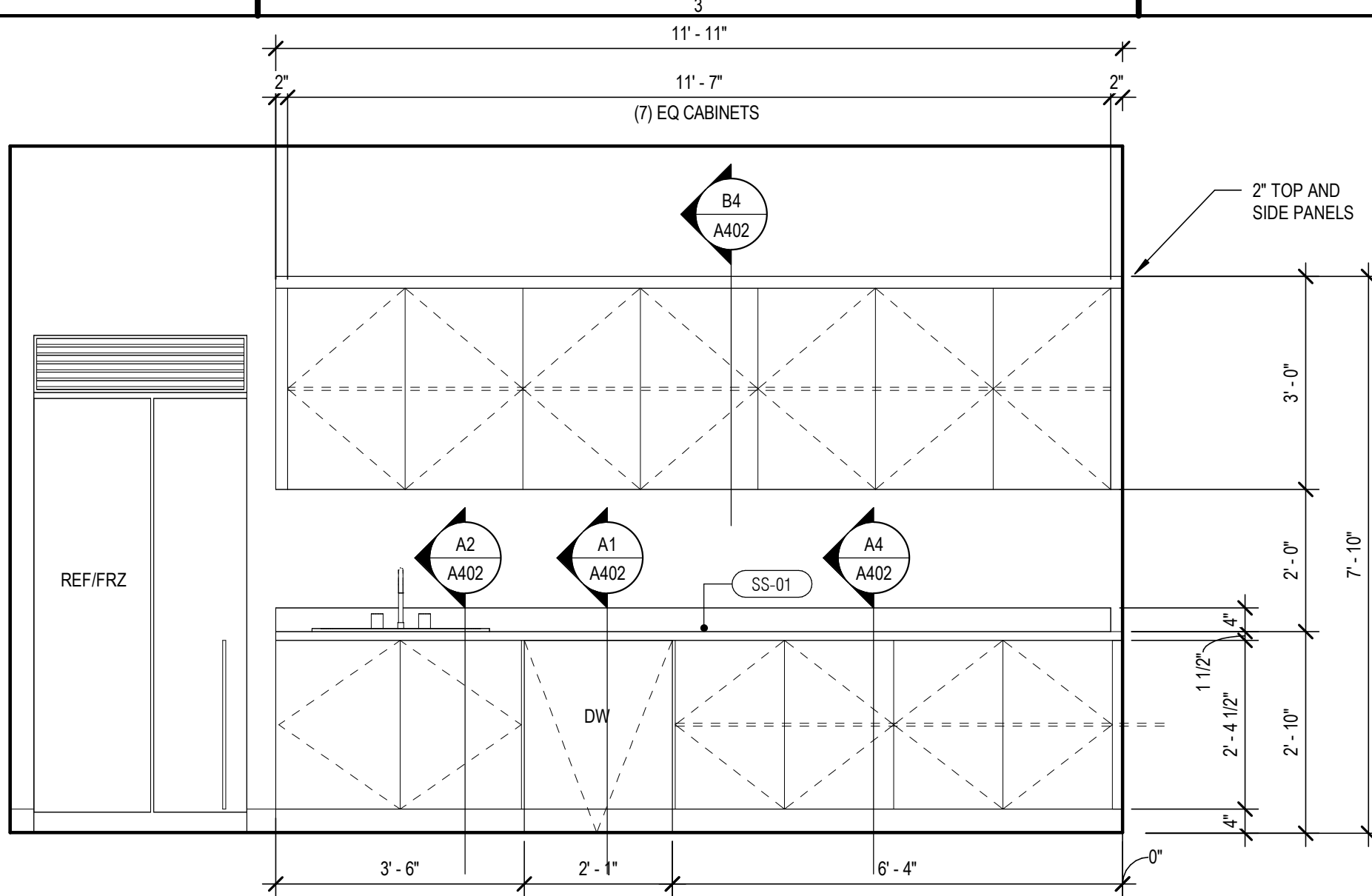
RE: G003 FOR RESTROOM ACCESSORY MOUNTING HEIGHT



109 RESTROOM - WEST

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

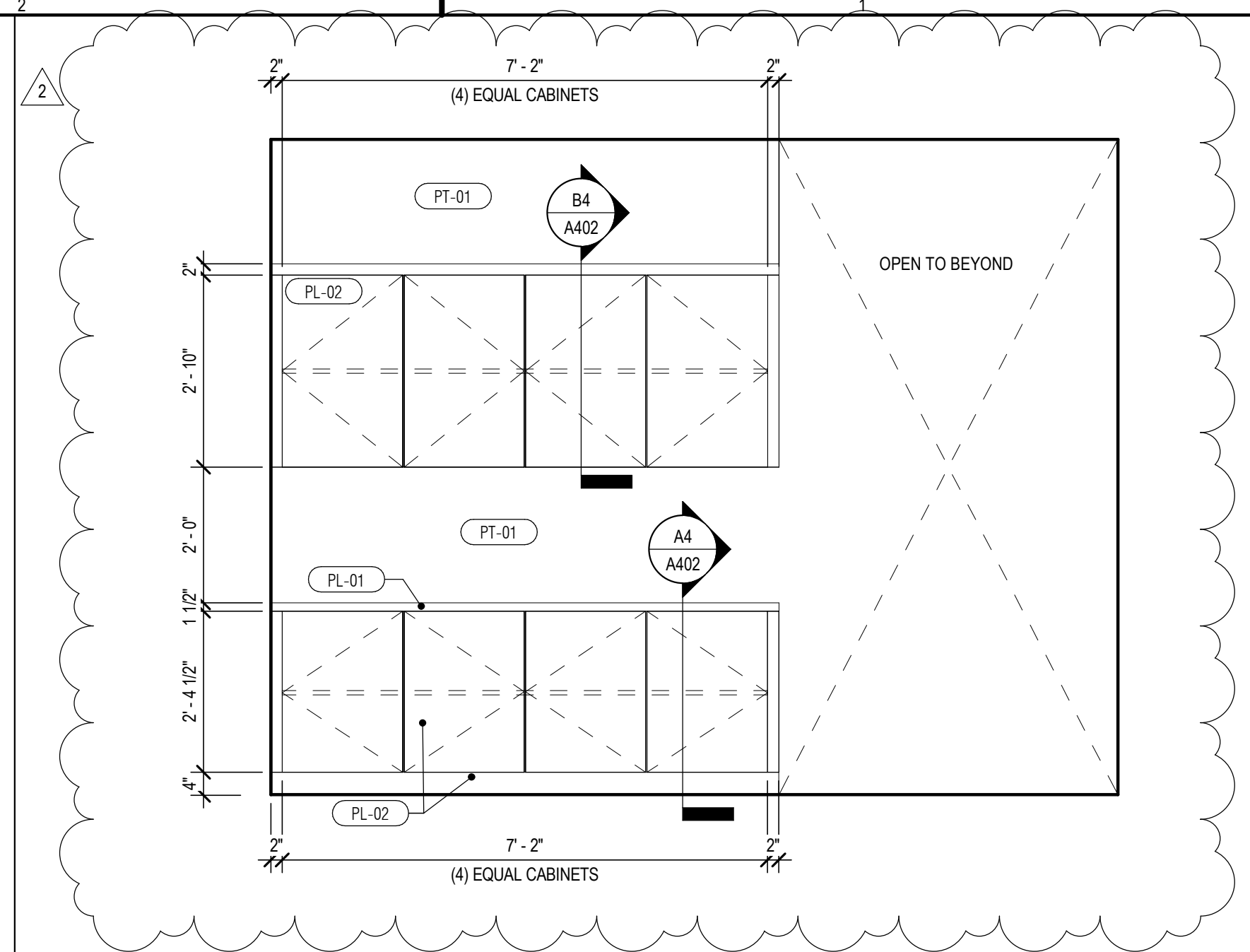
C5



108 BREAKROOM - WEST

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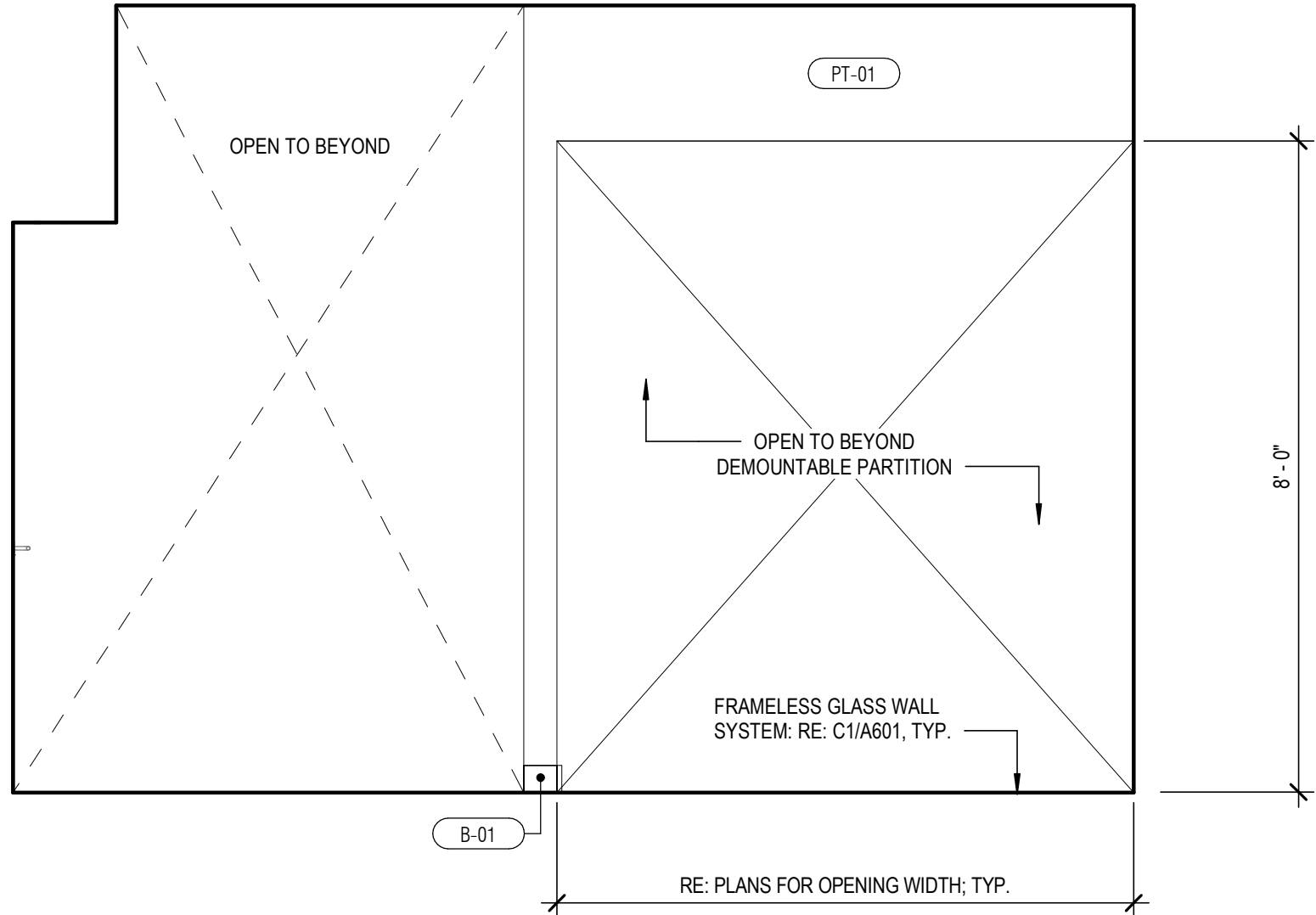
C2



106 COPY - WEST

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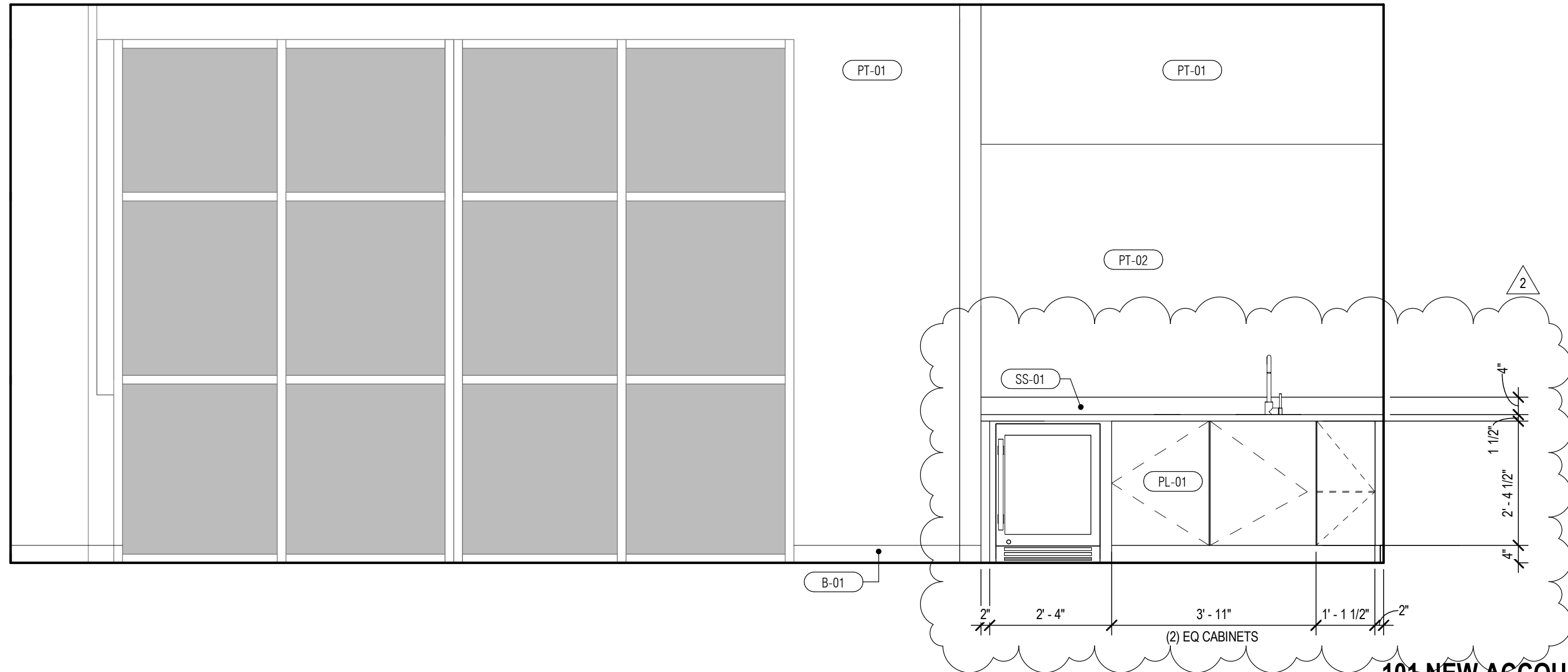
C1



106 COPY - WEST CONT'D

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

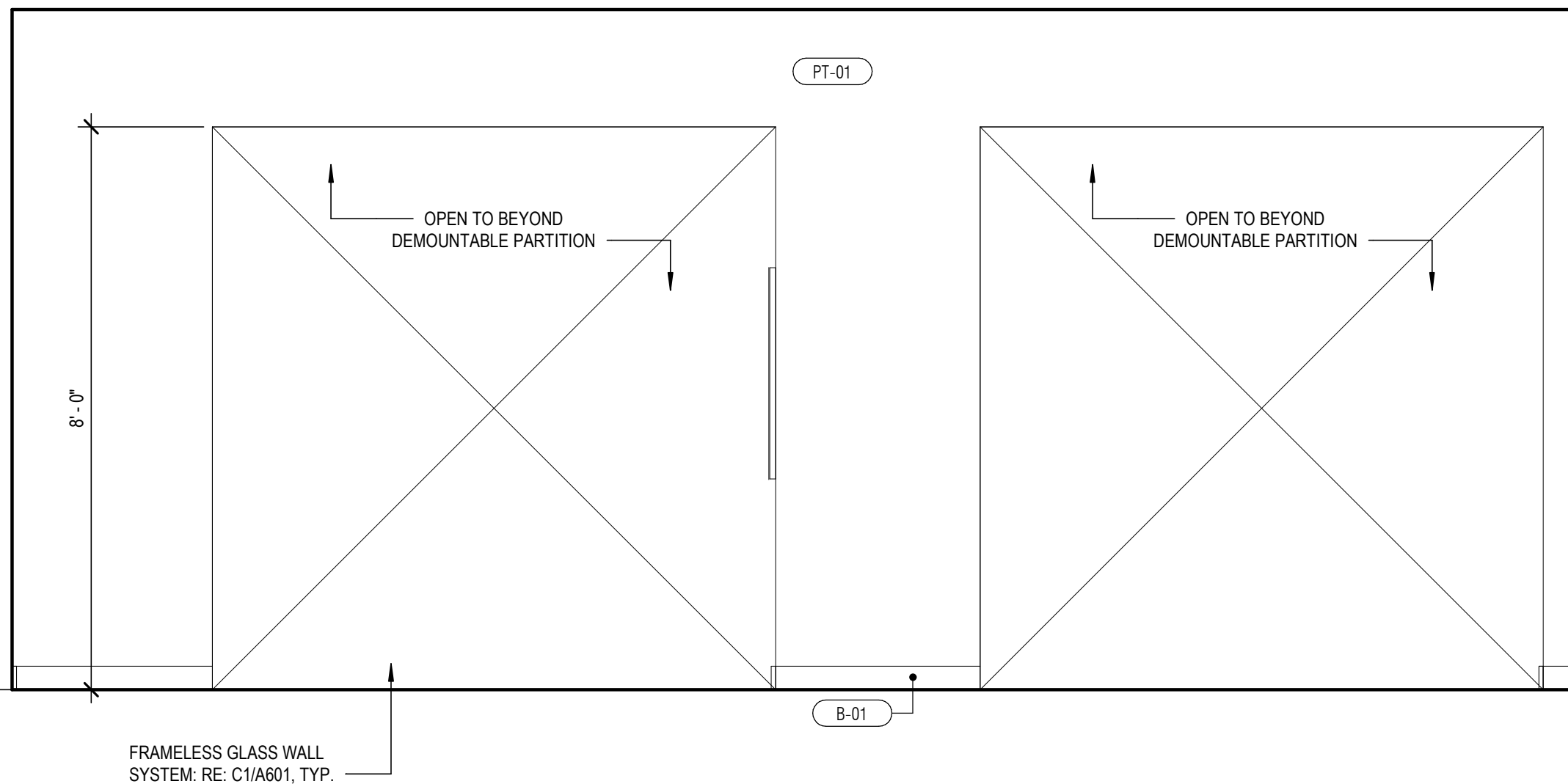
B3



101 NEW ACCOUNTS - SOUTH

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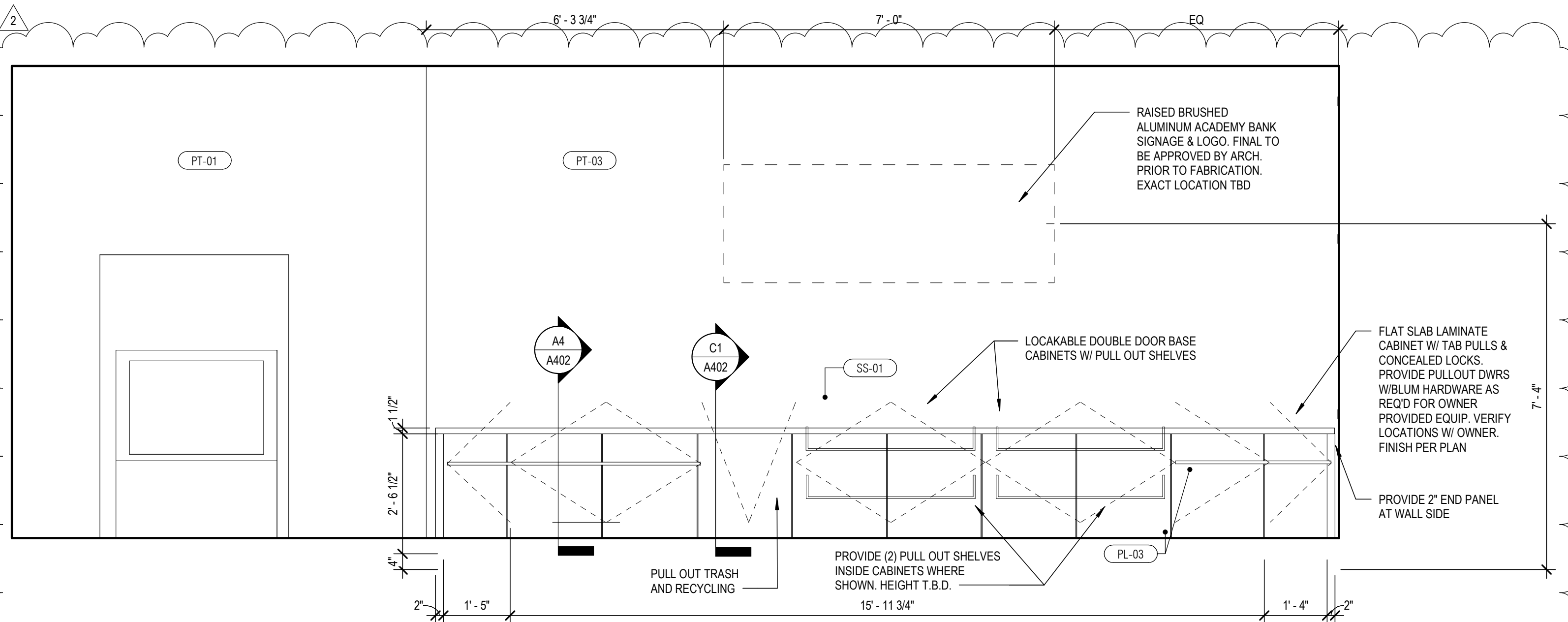
A3



106 COPY - NORTH

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

B1



101 NEW ACCOUNTS - NORTH

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

A1

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CIVIL ENGINEER

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MEP ENGINEER

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CONTRACTOR

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ARCHITECT: THOMAS JASON PROEBSTLE
LICENSE NO. A-2002017812



ACADEMY BANK
LEE'S SUMMIT

2070 NW LOWENSTEIN DR
SUITE A
LEE'S SUMMIT, MO 64081

FOR CONSTRUCTION

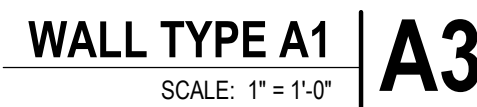
ISSUE DATE:		07.03.2024
REV	DESCRIPTION	DATE
1	CITY COMMENTS #1	07/03/2023
2	DESIGN CLARIFICATION	08/06/2024

PROJECT NO. 16014
DRAWN BY: CH
CHKD BY: PB
SHEET TITLE

INTERIOR ELEVATIONS

A401




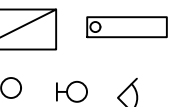
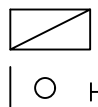





GENERAL NOTES:

1. DOORS ARE TO HAVE LEVER TYPE HARDWARE, SCHLAGE D-SERIES OR EQUAL, UNLESS OTHERWISE NOTED.
2. ALL EXPOSED HARDWARE SHALL BE FINISH #26, SATIN CHROMIUM PLATED, UNLESS OTHERWISE NOTED. VERIFY FINISHES WITH ARCHITECT PRIOR TO ORDERING.
3. OVERHEAD CLOSERS INDICATED SHALL BE FURNISHED WITH MAXIMUM OPENING LIMITATION OF 110 DEGREES.
4. ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING OR FABRICATION.
5. HARDWARE SHALL BE AS SHOWN AND NOTED ON THE DRAWINGS AND REQUIRED TO MEET REQUIREMENTS OF BIC AND AIA.
6. THE HARDWARE SCHEDULE REPRESENTS THE DESIGN INTENT. THEY ARE A GUIDELINE ONLY AND SHOULD NOT BE CONSIDERED A DETAILED HARDWARE SCHEDULE. DISCREPANCIES, CONFLICTING HARDWARE AND MISSING ITEMS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT WITH CORRECTIONS MADE PRIOR TO THE BIDDING PROCESS AND INSTALLATION.
7. OMITTED ITEMS NOT INCLUDED IN A HARDWARE SET SHOULD BE SCHEDULED WITH THE APPROPRIATE ADDITIONAL HARDWARE REQUIRED FOR PROPER APPLICATION AND FUNCTIONALITY.
8. CONTRACTOR TO COORDINATE KEYING WITH THE OWNER. ALL SPECIAL LOCKING ARRANGEMENTS TO COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
9. DOOR OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST.
10. ALL DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE W/O SPECIAL KNOWLEDGE OF USE OF KEY OR KEYCARD.
11. ALL DOOR HARDWARE MUST BE ADA COMPLIANT.
12. ALL HARDWARE MUST BE REVIEWED WITH ARCHITECT AND OWNER PRIOR TO ORDER AND INSTALLATION
13. U.N.O. ALL HM DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL.

DOOR & FRAME TYPES AND SCHEDULE

LEGEND

	CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND
   	LUMINAIRE SYMBOLS. SEE LUMINAIRE SCHEDULE FOR SPECIFIC FIXTURES.
\$	SINGLE POLE, SINGLE THROW LIGHT SWITCH, 20A (WP = WEATHERPROOF COVER)
\$ ₃	THREE-WAY LIGHT SWITCH, 20A
\$ _{AS}	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH AUTO SENSOR
\$ _{PL}	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH PILOT LIGHT
\$ _{PB}	PUSHBUTTON DOOR BELL ACTIVATOR
\$ _T	TIMER SWITCH
\$ _D	DIMMER SWITCH
\$ _V	VARIABLE SPEED FAN CONTROL SWITCH
⊖	SINGLE RECEPTACLE, GROUNDED
⊕	DUPLEX RECEPTACLE, GROUNDED
⊕ _{IG}	DUPLEX RECEPTACLE, ISOLATED GROUND
⊕ _{GFCI}	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFCI)
⊕ _{GFCI} WP	DUPLEX RECEPTACLE, GFCI WITH WEATHERPROOF COVER
⊕ _{2USB}	DUPLEX RECEPTACLE, WITH (2) USB PORTS
⊕ _{FLO}	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE
⊕ _{SP}	SPECIAL PURPOSE RECEPTACLE AS NOTED
C ▽	TELEVISION CABLE OUTLET WITH 3/4" C.O. TO MATV J-BOX
H ▽	HIGH DEFINITION TV OUTLET WITH (3) CAT6 CABLES
FACP	FIRE ALARM SYSTEM CONTROL PANEL
F	FIRE ALARM SYSTEM PULL STATION
⊕ ₁	FIRE ALARM SYSTEM MINI-HORN/STROBE COMBINATION, GUESTROOM
⊕	FIRE ALARM SYSTEM STROBE
⊕ ₁	FIRE ALARM SYSTEM HORN/STROBE
⊕ ₁	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR, GUESTROOM
⊕ ₁	FIRE ALARM SYSTEM SMOKE DETECTOR
⊕ ₁	FIRE ALARM SYSTEM DUCT MOUNT SMOKE DETECTOR
⊕ ₁	FIRE ALARM SYSTEM THERMAL DETECTOR
FSD	120V CONNECTION TO FIRE/SMOKE DAMPER
⊕	DOORBELL CHIME WITH ALERT LIGHT
⊕	JUNCTION BOX
⊕	THERMOSTAT
	TELEPHONE TERMINAL BOARD (TTB)
◀	TELEPHONE OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
◀48" HP	HOUSE TELEPHONE OUTLET MOUNTED AT 48" AFF WITH MINIMUM 1/2" C.O. TO TTB
T	TELEPHONE ALERT LIGHT, SIMILAR TO FIRE ALARM STROBE, WHITE COVERPLATE, WHITE STROBE LENS, WITH "PHONE" ON BOTH SIDES OF LENS IN BLACK LETTERS
◀	COMPUTER OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
◀(#)	COMPUTER OUTLET, # INDICATES NUMBER OF CAT6 JACKS, NO NUMBER INDICATES ONE CABLE
◀ ₁	DUPLEX TELEPHONE/DATA OUTLETS
⊕	PUSHBUTTON
⊕	PANELBOARD
	ELECTRICAL DISTRIBUTION EQUIPMENT
⊕	DISCONNECT SWITCH
⊕	MAGNETIC MOTOR STARTER
⊕	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH
⊕	CONTACTOR
⊕	TIME SWITCH
⊕	MOTOR CONNECTION
\$ _M	MOTOR RATED SWITCH
CR	CONNECTION TO ELECTRONIC CARD READER/DOOR RELEASE
⊕	CLOSED CIRCUIT SECURITY CAMERA
⊕	ELECTRO-MAGNETIC DOOR HOLDER
⊕	SPEAKER - CEILING

NEC GENERAL NOTES:

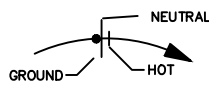
1. WHERE THE CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(2). (310.15(B)(2))
2. WHERE THE CONDUCTORS OR CABLES ARE INSTALLED IN CONDUITS EXPOSED TO DIRECT SUNLIGHT ON OR ABOVE ROOFTOPS SHALL BE REDUCED PER TABLE 310.15(B)(2)(C).
3. WHERE TWO DIFFERENT AMPACITIES APPLY TO ADJACENT PORTIONS OF A CIRCUIT, THE AMPACITY SHALL BE PER THE 310.15(2) EXCEPTION.
4. WHERE THE MAXIMUM AMBIENT TEMPERATURE IS OVER 30°C, (86°F), THE REFERENCED CORRECTION FACTORS SHALL APPLY TO CONDUCTORS. (TABLE 310.16 TO 19)
5. INDICATE WHICH WIRING METHODS (E.G., FMC, EMT, AC, IMC, RMC, ETC.) ARE TO BE INSTALLED AT ANY/ALL LOCATIONS ON THE PLANS. (CHAPTER 9, TABLES 4, 5 & 5A, APPENDIX C)
6. NOT USED
7. NOT USED
8. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. (210.4(B)).
9. ALL WORK TO COMPLY WITH NATIONAL ELECTRIC CODE 2020.
10. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION. (210.4(D))
11. PROVIDE SEPARATE SUBMITTAL, OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND / OR MODIFICATIONS ALL INSTALLED EQUIPMENT SHALL BE LISTED AND APPROVED BY A CITY APPROVED TESTING LABORATORY.
12. ALL INSTALLED EQUIPMENT AND MATERIAL SHALL BE NRTL LISTED AND APPROVED FOR THE INTENDED PURPOSE.
13. ALL EQUIPMENT TO BE U.L. LISTED OR EQUIVALENT.
14. FIELD VERIFY SERVICE RECEPTACLE IS PROVIDED WITHIN 25' OF MECHANICAL EQUIPMENT. (210.63)
15. MULTIPLE RACEWAYS CONTAINING MORE THAN 2 CURRENT CARRYING CONDUCTORS SHALL COMPLY WITH [2017, NEC, 310.15(B)(2)(A)].
16. WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM THE EQUIPMENT IT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER MUST INCLUDE PROVISIONS FOR ADDING A LOCK, AND THESE PROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING PROVISIONS HAVE TO BE PART OF THE EQUIPMENT, EITHER INHERENT TO THE EQUIPMENT
17. DESIGN OR AS AN ACCESSORY FEATURE THAT CAN BE INSTALLED ON THE EQUIPMENT. [410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION NO. 1, 600.6(A)(2)(3), 620.51(A) EXCEPTION NO. 1, 620.53, 620.55]
18. LIGHT FIXTURE IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.
19. LIGHTS AND PANELS SHALL NOT BE RECESSED IN FIRE RATED ASSEMBLIES UNLESS BOXED, WITH EQUIVALENT CONSTRUCTION.
20. MOUNT THE FOLLOWING ABOVE FINISHED FLOOR:
OUTLETS— 18" to 48"
SWITCHES— 36" to 48"
THERMOSTATS— 36" to 48"
MEASURED FROM BOTTOM & TOP OF BOXES RESPECTIVELY.
21. PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECTION 408.4, NEC.
22. W.P. COVER OF OUTLETS TO COMPLY WITH SECT. 406.8 (B) (I), NEC.

APPLICABLE CODES

CODES:

- NATIONAL ELECTRICAL CODE 2017
- COMPLY WITH LOCAL JURISDICTION REQUIREMENTS


VOLTAGE DROP



HOMERUN TO PANEL INDICATED (CONCEALED). MINIMUM 3/4" CONDUIT. CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL CONDUCTORS FOR HOMERUNS EXCEEDING 75' USE THE NEXT TABLE TO SIZE THE CONDUIT.

0 - 75 Feet	-----#12 AWG
75 - 150 Feet	-----#10 AWG
150 - 250 Feet	-----#8 AWG
250 - 350 Feet	-----#6 AWG

THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION.



CONDUIT CONCEALED IN WALL OR ABOVE CEILING SPACE. UNLESS OTHERWISE SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT UNDERGROUND OR BELOW SLAB CONDUIT. UNLESS OTHERWISE NOTED PER #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.

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12/19/2014

STATE OF MISSOURI

REGISTERED PROFESSIONAL ENGINEER

EUGENE DOSS

NUMBER E-21634

12/19/2014

SEAL

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

[illegible]

PROJECT NO.	16014
DRAWN BY:	
CHK'D BY:	
SHEET TITLE	

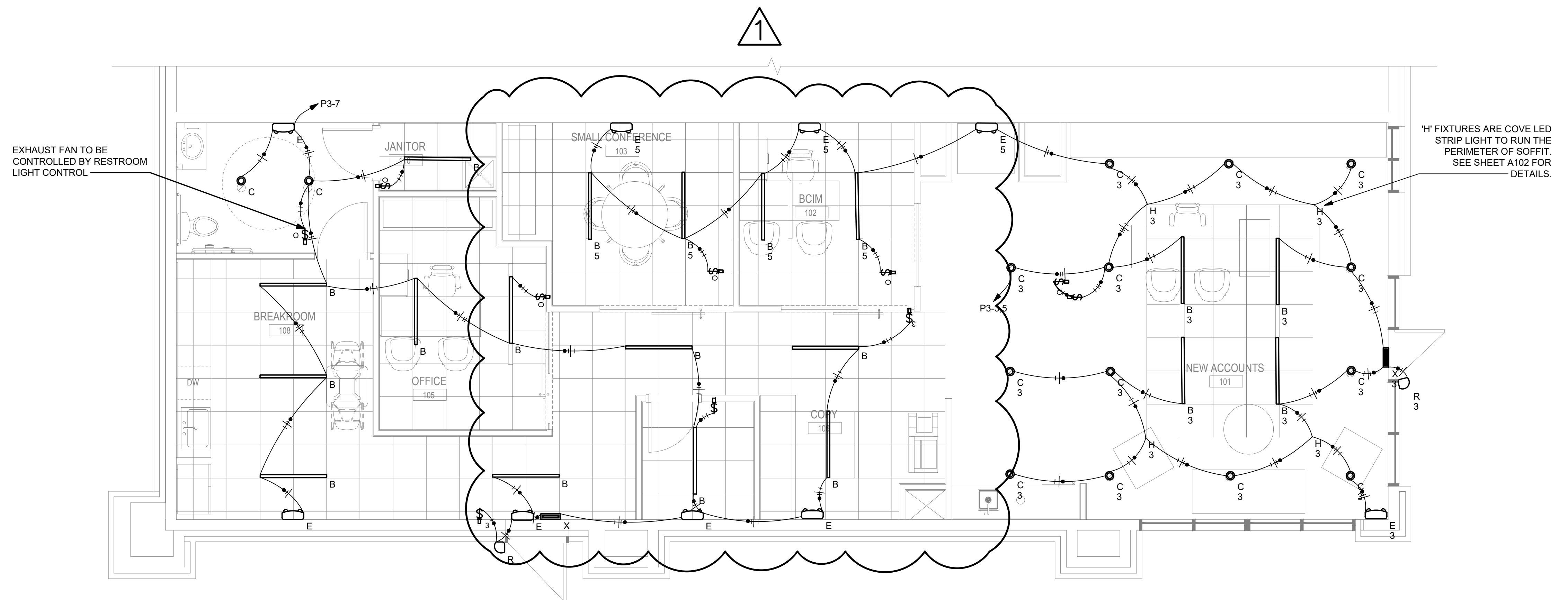
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PRIOR TO BID/START OF
CONSTRUCTION REQUIREMENTS

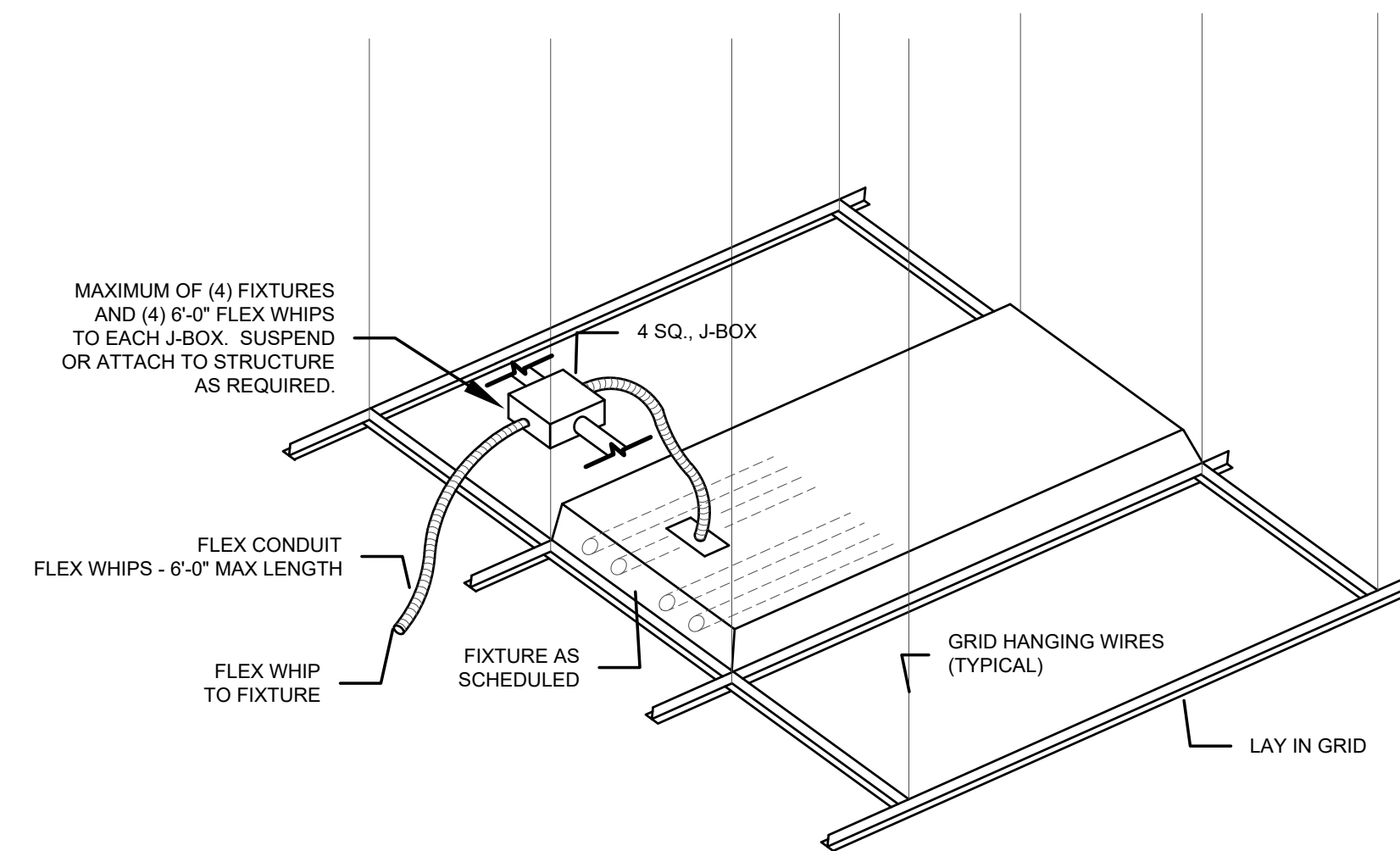
THESE DOCUMENTS ARE
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DO NOT COVER ALL CASES. BASED
ON THE INFORMATION THAT IS PROVIDED
BY THE OWNER, THE CONTRACTOR
WILL BE RESPONSIBLE FOR ALL
CONDITIONS IN THE FIELD PRIOR TO
BID. ANY DISCREPANCIES OR
OMISSIONS WILL BE THE RESPONSIBILITY
OF THE CONTRACTOR WITH
THE ABILITY OF THE CONTRACTOR
TO COMPLETE THE WORK AS
OUTLINED, SHALL BE BROUGHT TO
THE ATTENTION OF THE ARCHITECT
ANY COST SAVINGS OPTIONS OR
REUSE OF EXISTING EQUIPMENT.
ALL NEW DEVICES AND MATERIALS
BE MADE AVAILABLE TO THE OWNER
AND THE ARCHITECT FOR REVIEW.
ANY REQUESTED CHANGES DUE TO
THE NEED FOR ADDITIONAL SPACE OR
FAILURE TO SITE THE SITE PRIOR
TO BID, SHALL NOT BE AUTHORIZED
OR APPROVED. THE CONTRACTOR
WILL BE RESPONSIBLE FOR ALL
ALL LOWER SIZES AND LOCATIONS
PRIOR TO START OF
CONSTRUCTION. THE CONTRACTOR
WILL BE RESPONSIBLE FOR ALL
EQUIPMENT IN MECHANICAL ROOM
TO ENSURE PROPER SPACE AND
CLEARANCES ARE AVAILABLE.
THE CONTRACTOR WILL BE IMMEDIATELY
WITH ANY ISSUES.

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



2 DETAIL OF LIGHT FIXTURE INSTALLATION
SCALE: NO SCALE

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ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

**ACADEMY BANK
BRANCH:
LEE'S SUMMIT**

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PERMIT SET
ISSUE DATE: 05.30.24
REV DESCRIPTION DATE
REV 1 08-19-2024

PROJECT NO. 16014
DRAWN BY:
CHKD BY:
SHEET TITLE

E-100



OWNER

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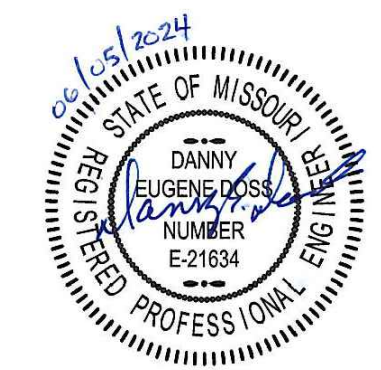
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ARCHITECT:	MIKE KRESS
LICENSE NO.	571



SEA

**ACADEMY BANK
BRANCH:
LEE'S SUMMIT**






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PERMIT SET

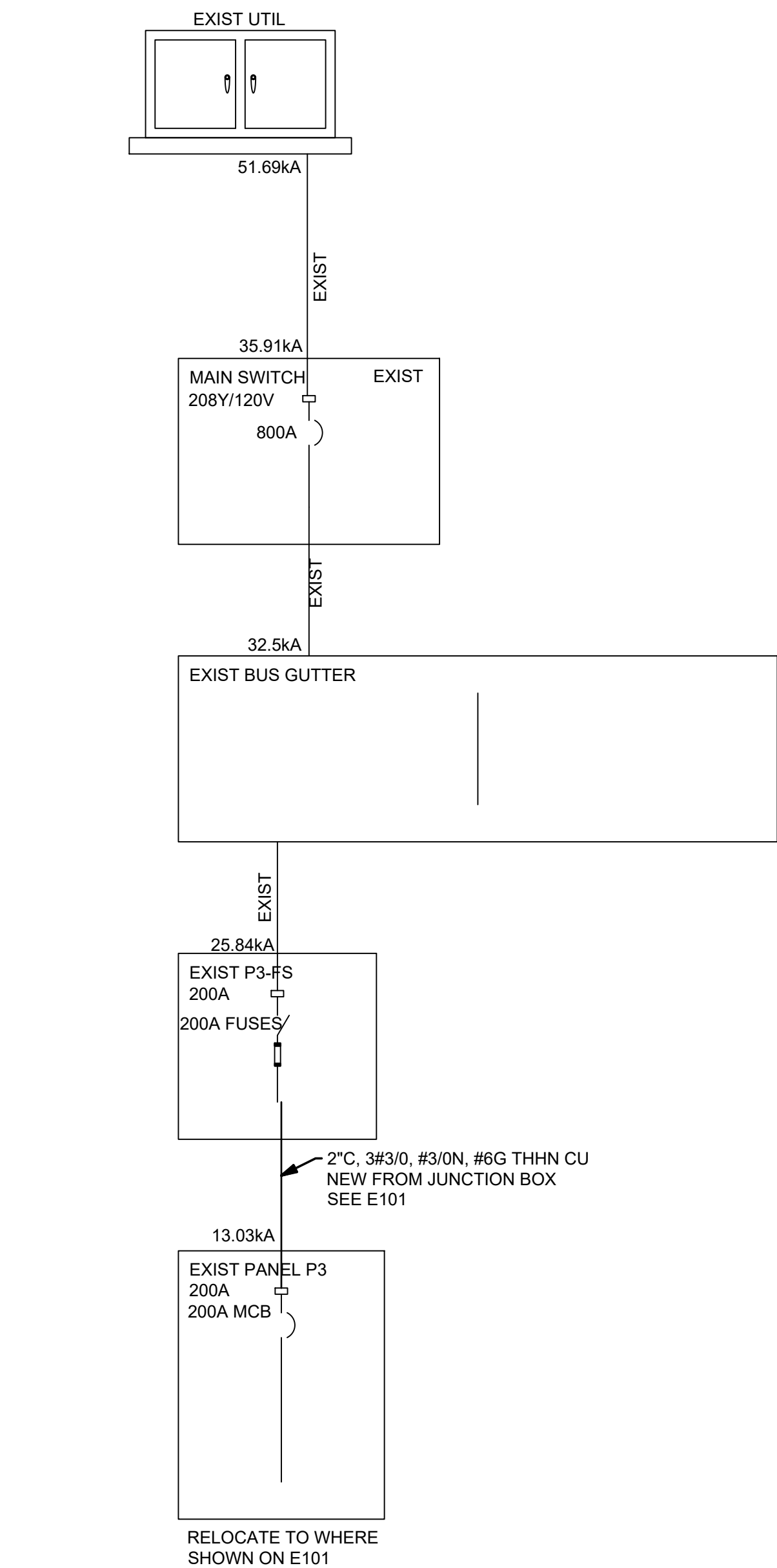
ISSUE DATE:		05.30.24
REV	DESCRIPTION	DATE
REV 1		08-19-2024

PROJECT NO.	16014
DRAWN BY:	
CHK'D BY:	
SHEET TITLE	

E-101

LUMINAIRE SCHEDULE			
CALLOUT	SYMBOL	MODEL	INPUT WATTS
B		Lithonia Lighting, ZL1N L48 5000LM FST MVOLT 40K 80 CRI	34.31
C		Lithonia Lighting, ZL2N L24 2000LM MDD XX 40K 80CRI XX	35.01
E		Lithonia Lighting, ELM6L	8.4
H		Flexfire LEDs Colorbright Natural White Strip	55
R		Lithonia Lighting, MR24 K0606	5.4
X		Lithonia Lighting, ECB LED	2.32

EQUIPMENT SCHEDULE					
CALLOUT	SYMBOL	VOLTS	AMPS	BREAKER	CIRCUIT
RTU-3(EX)		208V 3P 3W	28	35/3	P3-2,4,6
RTU-5(EX)		208V 3P 3W	35	50/3	P3-8,10,12
WH-1		208V 2P 2W	21.63	30/2	P3-14,16



1 SINGLE LINE DIAGRAM
N.T.S.

P3

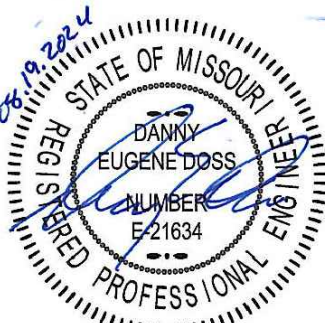
ROOM MOUNTING FLUSH FED FROM P3-FS NOTE			VOLTS 208Y/120V 3P 4W BUS AMPS 200 NEUTRAL 100%			AIC 22,000 MAIN BKR 200 LUGS STANDARD			
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD VA			FEEDER RACEWAY AND CONDUCTORS			
			A	B	C				
1	20/1	MAINT RECEPTACLE	360			1/2" C, 1#12, #12N, #12G 1/2" C, 1#10, #10N, #10G 1/2" C, 1#10, #10N, #10G 1/2" C, 1#10, #10N, #10G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G			
3	20/1	LIGHTING		793					
5	20/1	LIGHTING			231				
7	20/1	LIGHTING	497						
9	20/1	OFFICE 104 & 105 RECEPTACLES		1,440					
11	20/1	FAUCET SENSOR			180				
13	20/1	MAINT RECEP	180						
15	20/1	ENGAGEMENT RECEPTACLES		1,080					
17	20/1	BCIM RECEPTACLES			540				
19	20/1	BREAKROOM RECEPTACLES	720						
21	20/1	COPY ROOM RECEPTACLES		720		1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G			
23	20/1	NEW ACCOUNTS RECEPTACLES			1,440				
25	20/1	BREAKROOM GFCI	360						
27	20/1	FRIDGE - GFCI BREAKER		1,000					
29	20/1	DISHWASHER RECEPTACLE		1,300					
31	-/1	SPACE	0						
33	-/1	SPACE		0					
35	20/1	COPIER RECEPTACLE			1,000				
37	-/1	SPACE	0						
39	-/1	SPACE		0					
41	-/1	SPACE			0				
2	35/3	RTU-3(EX)	3,360			3/4" C, 3#8, #10G 3/4" C, 3#6, #10G 3/4" C, 3#6, #10G 3/4" C, 3#6, #10G 1/2" C, 2#10, #10G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G 1/2" C, 1#12, #12N, #12G			
4	-/1	SPACE		3,360					
6	-/1	SPACE			3,360				
8	50/3	RTU-5(EX)	4,200						
10	-/1	SPACE		4,200					
12	-/1	SPACE			4,200				
14	30/2	WH-1	2,250						
16	-/1	SPACE		2,250					
18	20/1	DATA RECEPTACLE			720				
20	-/1	SPACE	0						
22	-/1	SPACE		0					
24	20/1	SHOW WINDOW RECEPTACLE			1,230				
26	20/1	SHOW WINDOW RECEPTACLE	1,230						
28	-/1	SPACE		0					
30	-/1	SPACE			0				
32	-/1	SPACE	0						
34	-/1	SPACE		0					
36	-/1	SPACE			0				
38	-/1	SPACE	0						
40	-/1	SPACE		0					
42	-/1	SPACE			0				
TOTAL CONNECTED VA BY PHASE			13,200	14,800	14,200				
			CONN VA	CALC VA		CONN VA	CALC VA		
LIGHTING			1,520	1,900	(125%)	MOTORS	22,700	22,700	(100%)
LARGEST MOTOR			12,600	3,150	(25%)	RECEPTACLES	13,500	11,800	(50%>10)
						CONTINUOUS	4,500	5,630	(125%)
						TOTAL LOAD		45,100	
						BALANCED 3-PHASE LOAD		125 A	

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.

ACEI
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ARCHITECT: MIKE KRESS
LICENSE NO. 5715



SEAL

ACADEMY BANK
BRANCH:
LEE'S SUMMIT

2070 NW Lowenstein Dr
Suite A
LEE'S SUMMIT, MO 64081

PERMIT SET

ISSUE DATE: 05.30.24
REV DESCRIPTION DATE

PROJECT NO. 16014
DRAWN BY:
CHKD BY:
SHEET TITLE

E-600

VOLTAGE DROP NOTES:



HOMERUN TO PANEL INDICATED (CONCEALED). MINIMUM 3/4" CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL CONDUCTORS.
FOR HOMERUNS EXCEEDING 75' USE THE NEXT TABLE TO SIZE THE CONDUCTORS:
0 - 75 Feet #12 AWG
75 - 150 Feet #10 AWG
150 - 250 Feet #8 AWG
250 - 350 Feet #6 AWG
THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE AND 3 BRANCH CIRCUITS FOR THREE PHASE PER HOMERUN (AS INDICATED ON THE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION AND CIRCUIT NUMBER(S).
CONDUIT CONCEALED IN WALL OR ABOVE CEILING SPACE. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.
UNDERGROUND OR BELOW SLAB CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.

16010 BASIC ELECTRICAL REQUIREMENTS			16123 BUILDING WIRE AND CABLE			(CON'T.)			16141 WIRING DEVICES			3.02 NAMEPLATE ENGRAVING SCHEDULE		
PART 1	GENERAL		PART 1	GENERAL		2.02	RECEPTACLES					A.	PROVIDE NAMEPLATES OF MINIMUM LETTER HEIGHT AS SCHEDULED BELOW.	
1.01	SECTION INCLUDES		1.01	SECTION INCLUDES			A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.					B.	PANELBOARDS: 3/4 INCH, IDENTIFY EQUIPMENT DESIGNATION.	
A.	BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL REQUIREMENTS.		A.	BUILDING WIRE AND CABLE.			B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE.					C.	INDIVIDUAL CIRCUIT BREAKERS, SWITCHES, AND MOTOR STARTERS IN PANELBOARDS, SWITCHBOARDS, AND MOTOR CONTROL CENTERS: 1/8 INCH, IDENTIFY CIRCUIT AND LOAD SERVED, INCLUDING LOCATION.	
1.02	SUBMITTALS		1.02	PROJECT CONDITIONS			C. SPECIFICATION GRADE, GROUNDING TYPE; LOCKING BLADE RECEPTACLES: NEMA WD 5, SPECIFICATION GRADE, GROUNDING TYPE; AS FOLLOWS:					D.	INDIVIDUAL CIRCUIT BREAKERS, ENCLOSED SWITCHES AND MOTOR STARTERS: 1/4 INCH, IDENTIFY LOAD SERVED.	
A.	SUBMIT UNDER PROVISIONS OF ARCHITECTURAL SPECIFICATIONS.		A.	VERIFY THAT FIELD MEASUREMENTS ARE AS SHOWN ON DRAWINGS.			1. DUPLEX RECEPTACLE 20 A, 125 V: HUBBELL 5362, ARROW HART 5362, P & S 5362, SLATER 5362-AG, LEVITON 5362, OR G.E. 5362-1.							END OF SECTION
B.	SUBMIT THE FOLLOWING PRODUCTS:		B.	CONDUCTOR SIZES ARE BASED ON COPPER.			2. COMPUTER DUPLEX RECEPTACLE 20A, 125V ISOLATED GROUND: HUBBELL IG 5362, ARROW HART I-5362, P & S IG6300, SLATER IG5362-AG-OR, LEVITON 5362-IG, OR G.E. 5362-IG2.							16470 PANELBOARDS
1.	WIRING DEVICES AND COVER PLATES.		PART 2	PRODUCTS								PART 1	GENERAL	
2.	DISCONNECT SWITCHES.		2.01	MANUFACTURERS								1.01	WORK INCLUDED	
3.	PANELBOARDS.		A.	GENERAL ELECTRIC, ROME, HATFIELD, CRESENT, GENERAL CABLE, TRIANGLE, ANACONDA.								A.	LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS.	
4.	LIGHT FIXTURES.		2.02	WIRE AND CABLE								1.02	SPARE PARTS	
C.	INDICATE MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATED ON DRAWINGS, ADJACENT THERETO.		A.	DESCRIPTION: SINGLE CONDUCTOR INSULATED WIRE.								A.	KEYS: FURNISH TWO EACH TO OWNER.	
D.	SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE NAME IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS ARE NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO BIDS.		B.	CONDUCTOR: COPPER.								PART 2	PRODUCTS	
1.03	REGULATORY REQUIREMENTS		D.	INSULATION VOLTAGE RATING: 600 VOLTS.								2.01	ACCEPTABLE MANUFACTURERS – PANELBOARDS	
A.	CONFORM TO APPLICABLE BUILDING CODES.			INSULATION: ANSI/WFPA 70: TYPE THW, THHN/THWN OR XHHW INSULATION FOR FEEDERS AND BRANCH CIRCUITS LARGER THAN 8 AWG. TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER. THW OR XHHW MAY BE USED IF CONDUIT SIZE IS INCREASED FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER.								A.	SQUARE D, GENERAL ELECTRIC, ITE/SIEMENS-ALLIS, WESTINGHOUSE, CUTLER HAMMER.	
1.04	PROJECT\SITE CONDITIONS		2.03	WALL PLATES								2.02	PANELBOARDS	
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.		A.	HIGH IMPACT NYLON, IVORY COLOR, SAME AS DEVICE MANUFACTURER, TO MATCH DEVICE.								A.	LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS: CIRCUIT BREAKER TYPE AS INDICATED ON THE PANELBOARD SCHEDULES ON DRAWINGS. PROVIDE CABINET FRONT WITH CONCEALED TRIM CLAMPS, CONCEALED HINGE AND FLUSH LOCK ALL KEYED ALIKE. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL.	
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.			CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND SCREW TERMINAL.								B.	ENCLOSURE: TYPE 1.	
1.03	REGULATORY REQUIREMENTS			USE JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.								C.	MINIMUM SHORT CIRCUIT RATING: AS SHOWN ON DRAWINGS.	
A.	CONFORM TO APPLICABLE BUILDING CODES.			INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE ACCESSIBLE CEILINGS AND ON SURFACE MOUNTED OUTLETS IN STOCKROOM AREAS.								D.	PROVIDE PANELBOARDS WITH COPPER BUS RATINGS AS SCHEDULED ON DRAWINGS. PROVIDE GROUND BUS IN ALL PANELBOARDS.	
1.04	PROJECT\SITE CONDITIONS											E.	MOLDED CASE CIRCUIT BREAKERS: BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE CIRCUIT BREAKERS UL LISTED AS TYPE SWD FOR LIGHTING CIRCUITS. PROVIDE UL CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS WHERE SCHEDULED ON DRAWINGS.	
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.											PART 3	EXECUTION	
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.											3.01	INSTALLATION	
1.03	REGULATORY REQUIREMENTS											A.	HEIGHT: 6 FEET TO TOP SWITCH OR CIRCUIT BREAKER IN PANELBOARDS, UNLESS OTHERWISE NOTED.	
A.	CONFORM TO APPLICABLE BUILDING CODES.											B.	PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS.	
1.04	PROJECT\SITE CONDITIONS													END OF SECTION
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.													16510 INTERIOR LUMINARIES
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.													

PART 1	GENERAL		PART 1	GENERAL		2.01	RECEPTACLES							
1.01	SECTION INCLUDES		1.01	SECTION INCLUDES			A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.							
A.	BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL REQUIREMENTS.		A.	BUILDING WIRE AND CABLE.			B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE.							
1.02	SUBMITTALS		1.02	PROJECT CONDITIONS			C. SPECIFICATION GRADE, GROUNDING TYPE; LOCKING BLADE RECEPTACLES: NEMA WD 5, SPECIFICATION GRADE, GROUNDING TYPE; AS FOLLOWS:							
A.	SUBMIT UNDER PROVISIONS OF ARCHITECTURAL SPECIFICATIONS.		A.	VERIFY THAT FIELD MEASUREMENTS ARE AS SHOWN ON DRAWINGS.			1. DUPLEX RECEPTACLE 20 A, 125 V: HUBBELL 5362, ARROW HART 5362, P & S 5362, SLATER 5362-AG, LEVITON 5362, OR G.E. 5362-1.							
B.	SUBMIT THE FOLLOWING PRODUCTS:		B.	CONDUCTOR SIZES ARE BASED ON COPPER.			2. COMPUTER DUPLEX RECEPTACLE 20A, 125V ISOLATED GROUND: HUBBELL IG 5362, ARROW HART I-5362, P & S IG6300, SLATER IG5362-AG-OR, LEVITON 5362-IG, OR G.E. 5362-IG2.							
1.	WIRING DEVICES AND COVER PLATES.		PART 2	PRODUCTS										
2.	DISCONNECT SWITCHES.		2.01	MANUFACTURERS										
3.	PANELBOARDS.		A.	GENERAL ELECTRIC, ROME, HATFIELD, CRESENT, GENERAL CABLE, TRIANGLE, ANACONDA.										
4.	LIGHT FIXTURES.		2.02	WIRE AND CABLE										
C.	INDICATE MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATED ON DRAWINGS, ADJACENT THERETO.		A.	DESCRIPTION: SINGLE CONDUCTOR INSULATED WIRE.										
D.	SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE NAME IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS ARE NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO BIDS.		B.	CONDUCTOR: COPPER.										
1.03	REGULATORY REQUIREMENTS		D.	INSULATION VOLTAGE RATING: 600 VOLTS.										
A.	CONFORM TO APPLICABLE BUILDING CODES.			INSULATION: ANSI/WFPA 70: TYPE THW, THHN/THWN OR XHHW INSULATION FOR FEEDERS AND BRANCH CIRCUITS LARGER THAN 8 AWG. TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER. THW OR XHHW MAY BE USED IF CONDUIT SIZE IS INCREASED FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER.										
1.04	PROJECT\SITE CONDITIONS		2.03	WALL PLATES										
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.		A.	HIGH IMPACT NYLON, IVORY COLOR, SAME AS DEVICE MANUFACTURER, TO MATCH DEVICE.										
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.			CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND SCREW TERMINAL.										
1.03	REGULATORY REQUIREMENTS			USE JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.										
A.	CONFORM TO APPLICABLE BUILDING CODES.			INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE ACCESSIBLE CEILINGS AND ON SURFACE MOUNTED OUTLETS IN STOCKROOM AREAS.										
1.04	PROJECT\SITE CONDITIONS													
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.													
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.													

PART 1	GENERAL		PART 1	GENERAL		2.01	RECEPTACLES							
1.01	SECTION INCLUDES		1.01	SECTION INCLUDES			A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.							
A.	BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL REQUIREMENTS.		A.	BUILDING WIRE AND CABLE.			B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE.							
1.02	SUBMITTALS		1.02	PROJECT CONDITIONS			C. SPECIFICATION GRADE, GROUNDING TYPE; LOCKING BLADE RECEPTACLES: NEMA WD 5, SPECIFICATION GRADE, GROUNDING TYPE; AS FOLLOWS:							
A.	SUBMIT UNDER PROVISIONS OF ARCHITECTURAL SPECIFICATIONS.		A.	VERIFY THAT FIELD MEASUREMENTS ARE AS SHOWN ON DRAWINGS.			1. DUPLEX RECEPTACLE 20 A, 125 V: HUBBELL 5362, ARROW HART 5362, P & S 5362, SLATER 5362-AG, LEVITON 5362, OR G.E. 5362-1.							
B.	SUBMIT THE FOLLOWING PRODUCTS:		B.	CONDUCTOR SIZES ARE BASED ON COPPER.			2. COMPUTER DUPLEX RECEPTACLE 20A, 125V ISOLATED GROUND: HUBBELL IG 5362, ARROW HART I-5362, P & S IG6300, SLATER IG5362-AG-OR, LEVITON 5362-IG, OR G.E. 5362-IG2.							
1.	WIRING DEVICES AND COVER PLATES.		PART 2	PRODUCTS										
2.	DISCONNECT SWITCHES.		2.01	MANUFACTURERS										
3.	PANELBOARDS.		A.	GENERAL ELECTRIC, ROME, HATFIELD, CRESENT, GENERAL CABLE, TRIANGLE, ANACONDA.										
4.	LIGHT FIXTURES.		2.02	WIRE AND CABLE										
C.	INDICATE MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATED ON DRAWINGS, ADJACENT THERETO.		A.	DESCRIPTION: SINGLE CONDUCTOR INSULATED WIRE.										
D.	SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE NAME IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS ARE NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO BIDS.		B.	CONDUCTOR: COPPER.										
1.03	REGULATORY REQUIREMENTS		D.	INSULATION VOLTAGE RATING: 600 VOLTS.										
A.	CONFORM TO APPLICABLE BUILDING CODES.			INSULATION: ANSI/WFPA 70: TYPE THW, THHN/THWN OR XHHW INSULATION FOR FEEDERS AND BRANCH CIRCUITS LARGER THAN 8 AWG. TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER. THW OR XHHW MAY BE USED IF CONDUIT SIZE IS INCREASED FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER.										
1.04	PROJECT\SITE CONDITIONS		2.03	WALL PLATES										
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.		A.	HIGH IMPACT NYLON, IVORY COLOR, SAME AS DEVICE MANUFACTURER, TO MATCH DEVICE.										
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.			CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND SCREW TERMINAL.										
1.03	REGULATORY REQUIREMENTS			USE JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.										
A.	CONFORM TO APPLICABLE BUILDING CODES.			INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE ACCESSIBLE CEILINGS AND ON SURFACE MOUNTED OUTLETS IN STOCKROOM AREAS.										
1.04	PROJECT\SITE CONDITIONS													
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.													
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.													

PART 1	GENERAL		PART 1	GENERAL		2.01	RECEPTACLES							
1.01	SECTION INCLUDES		1.01	SECTION INCLUDES			A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.							
A.	BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL REQUIREMENTS.		A.	BUILDING WIRE AND CABLE.			B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE.							
1.02	SUBMITTALS		1.02	PROJECT CONDITIONS			C. SPECIFICATION GRADE, GROUNDING TYPE; LOCKING BLADE RECEPTACLES: NEMA WD 5, SPECIFICATION GRADE, GROUNDING TYPE; AS FOLLOWS:							
A.	SUBMIT UNDER PROVISIONS OF ARCHITECTURAL SPECIFICATIONS.		A.	VERIFY THAT FIELD MEASUREMENTS ARE AS SHOWN ON DRAWINGS.			1. DUPLEX RECEPTACLE 20 A, 125 V: HUBBELL 5362, ARROW HART 5362, P & S 5362, SLATER 5362-AG, LEVITON 5362, OR G.E. 5362-1.							
B.	SUBMIT THE FOLLOWING PRODUCTS:		B.	CONDUCTOR SIZES ARE BASED ON COPPER.			2. COMPUTER DUPLEX RECEPTACLE 20A, 125V ISOLATED GROUND: HUBBELL IG 5362, ARROW HART I-5362, P & S IG6300, SLATER IG5362-AG-OR, LEVITON 5362-IG, OR G.E. 5362-IG2.							
1.	WIRING DEVICES AND COVER PLATES.		PART 2	PRODUCTS										
2.	DISCONNECT SWITCHES.		2.01	MANUFACTURERS										
3.	PANELBOARDS.		A.	GENERAL ELECTRIC, ROME, HATFIELD, CRESENT, GENERAL CABLE, TRIANGLE, ANACONDA.										
4.	LIGHT FIXTURES.		2.02	WIRE AND CABLE										
C.	INDICATE MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATED ON DRAWINGS, ADJACENT THERETO.		A.	DESCRIPTION: SINGLE CONDUCTOR INSULATED WIRE.										
D.	SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE NAME IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS ARE NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO BIDS.		B.	CONDUCTOR: COPPER.										
1.03	REGULATORY REQUIREMENTS		D.	INSULATION VOLTAGE RATING: 600 VOLTS.										
A.	CONFORM TO APPLICABLE BUILDING CODES.			INSULATION: ANSI/WFPA 70: TYPE THW, THHN/THWN OR XHHW INSULATION FOR FEEDERS AND BRANCH CIRCUITS LARGER THAN 8 AWG. TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER. THW OR XHHW MAY BE USED IF CONDUIT SIZE IS INCREASED FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER.										
1.04	PROJECT\SITE CONDITIONS		2.03	WALL PLATES										
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.		A.	HIGH IMPACT NYLON, IVORY COLOR, SAME AS DEVICE MANUFACTURER, TO MATCH DEVICE.										
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.			CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND SCREW TERMINAL.										
1.03	REGULATORY REQUIREMENTS			USE JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.										
A.	CONFORM TO APPLICABLE BUILDING CODES.			INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE ACCESSIBLE CEILINGS AND ON SURFACE MOUNTED OUTLETS IN STOCKROOM AREAS.										
1.04	PROJECT\SITE CONDITIONS													
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.													
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.													

PART 1	GENERAL		PART 1	GENERAL		2.01	RECEPTACLES							
1.01	SECTION INCLUDES		1.01	SECTION INCLUDES			A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.							
A.	BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL REQUIREMENTS.		A.	BUILDING WIRE AND CABLE.			B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE.							
1.02	SUBMITTALS		1.02	PROJECT CONDITIONS			C. SPECIFICATION GRADE, GROUNDING TYPE; LOCKING BLADE							

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PERMIT SET		
ISSUE DATE:		05.30.2
REV	DESCRIPTION	DATE

[illegible]

PROJECT NO.	1601
DRAWN BY:	
CHK'D BY:	
SHEET TITLE	

E-700

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS

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MECHANICAL LEGEND AND ABBREVIATIONS

ABBREVIATIONS - MECHANICAL	
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BOILER
BD	BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
BO	BLANK OFF
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	CEILING DIFFUSER
CF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CH	CHILLER
CO	CLEAN OUT
COMP	COMPRESSOR
CONV	CONVECTOR
CR	CEILING REGISTER
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	CONDENSER WATER
DB	DRY BULB
DA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECH	ELECTRIC CABINET HEATER
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATOR
EHC	ELECTRIC HEATING COIL
ELH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
F	FILTER
FBO	FURNISHED BY OTHERS
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)
FCG	FIRE CONTROL CENTER
FCU	FAN COIL UNIT
FD	FUSIBLE LINK FIRE DAMPER W/ DUCT ACCESS DOOR
FLR	FLOOR
FLA	FULL LOAD AMPS
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FRE	FIRE RATED ENCLOSURE
FSD	COMBINATION FIRE AND SMOKE DAMPER
FT	FEET
FTN	FIN TUBE RADIATOR
GLY	GLYCOL
GPM	GALLONS PER MINUTE
GK	GENERAL EXHAUST
HC	HEATING COIL
HTP	HEAT PUMP
HP	HORSE POWER
HR	HOUR
HRI	HEAT RECOVERY UNIT
HTW	HEATWHEEL
HV	HEATING AND VENTILATING UNIT
HW	HOT WATER
HX	HEAT EXCHANGER
ID	INSIDE DIMENSION
KW	KILOWATT
KWH	KILOWATT HOURS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER (CEILING, WALL, SILL OR FLOOR)
LRA	LOCK ROTOR AMPS
LWS	LOUVER WITH WIRE SCREEN
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MFG	MANUFACTURER

ABBREVIATIONS - MECHANICAL	
MFS	MAXIMUM FUSE SIZE
MN	MINIMUM
MUA	MAKE UP AIR UNIT
MOP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NC	NOT IN THIS CONTRACT
NK	NECK
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIMENSION
P	PUMP
PD	PRESSURE DROP
PHC	PRE-HEAT COIL
PHX	PLATE HEAT EXCHANGER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH (GAUGE)
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
(R)	EXISTING TO BE RELOCATED
RA	RETURN AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SEE	SEE ARCHITECTURAL DRAWINGS
SD	SMOKE DAMPER
SF	SUPPLY FAN
SEE	SEE ELECTRICAL DRAWINGS
SENS	SENSIBLE
SM	SHEET METAL
SP	STATIC PRESSURE
STP	STAIR PRESSURIZATION
SQFT	SQUARE FEET
ST	SOUND TRAP
SA	SMOKE EXHAUST
TF	TRANSFER FAN
TRD	TRANSFER DUCT
TRG	TRANSFER GRILLE
TX	TOILET EXHAUST
TYP	TYPICAL
UH	UNIT HEATER
UNLESS	UNLESS OTHERWISE NOTED
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME
VO	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WITH
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WO-SIZE	WALL OPENING - (SIZE)
(X)	EXISTING TO BE DEMOLISHED
(300)	CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE

PIPING LEGEND	
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	REFRIGERANT LIQUID PIPING

PIPING LEGEND (CONTINUED)	
	REFRIGERANT SUCTION PIPING
	REFRIGERANT-SAFETY VALVE RELIEF LINE
	HOT GAS PIPING
	DOMESTIC COLD WATER MAKE-UP
	ARROW INDICATES DIRECTION OF FLOW
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	DRAIN LINE
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
	EXPANSION LOOP (SIZE A/B)
	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR
	CONCENTRIC REDUCER (INCREASER)
	ECCENTRIC REDUCER (INCREASER)
	UNION
	CAPPED PIPE WITH SHUT-OFF VALVE
	"Y" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	"Y" TYPE STRAINER
	BASKET TYPE STRAINER
	DUPLEX STRAINER
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SLOPED CHANGE IN PIPE ELEVATION
	FLEXIBLE CONNECTION
	SHUT-OFF VALVE
	AUTOMATIC FLOW CONTROL VALVE
	CALIBRATED BALANCE VALVE
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC THREE-WAY CONTROL VALVE
	AUTOMATIC TWO-WAY CONTROL VALVE
	RELIEF VALVE
	ANGLE RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
	LUBRICATED PLUG VALVE
	LOCKSHIELD GLOBE VALVE
	SOLENOID VALVE
	BUTTERFLY VALVE (MANUAL)
	BUTTERFLY VALVE (MOTORIZED)
	BALL VALVE
	PUMP

PIPING LEGEND (CONTINUED)	
	DIRT POCKET
	REFRIGERANT EXPANSION VALVE
	SIGHT GLASS
	VALVE IN VERTICAL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL (THERMOMETER)
	PRESSURE GAUGE AND COCK
	PRESSURE GAUGE WITH LOOP
	TEMPERATURE-PRESSURE TEST FITTING
	CENTER LINE
	HEAT TRACED PIPING
	PIPE SLEEVE
	BEAM PENETRATION
	PIPE GUIDE
	PIPE BLIND FLANGE

DUCTWORK LEGEND	
	DUCT SPLIT WITH SPLIT SIZE
	RADIUS ELBOW
	ELBOW WITH TURNING VANES
	RECTANGULAR BRANCH TAKEOFF WITH BALANCING DAMPER
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN OR EXHAUST DUCT UP
	RECTANGULAR RETURN OR EXHAUST DUCT DOWN
	ROUND DUCT, UP
	ROUND DUCT, DOWN
	BEAM PENETRATION
	SLOPING RISE IN DUCTWORK

DUCTWORK LEGEND (CONTINUED)	
	SLOPING DROP IN DUCTWORK
	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
	OVAL DUCT SIZE
	SIDE, TOP OR BOTTOM DUCT ACCESS DOOR
	ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)
	RECTANGULAR OR SQUARE TO ROUND OR OVAL TRANSITION
	FLEXIBLE CONNECTION
	DUCT ENDCAP
	FLEXIBLE DUCT
	DUCT COIL WITH ACCESS DOOR
	VOLUME DAMPER IN DUCT
	AUTOMATIC CONTROL DAMPER
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR
	SMOKE DAMPER WITH DUCT ACCESS DOOR
	COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR
	BACK DRAFT DAMPER WITH DUCT ACCESS DOOR
	LINEAR DIFFUSER
	LINEAR DIFFUSER WITH PLENUM
	CEILING DIFFUSER
	CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
	RETURN/EXHAUST REGISTER OR GRILLE
	ROUND CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
	ROUND CEILING DIFFUSER
	FIRE RATED ENCASED DUCT
	TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE)
	WALL OPENING ABOVE HUNG CEILING (SIZE)
	SUPPLY REGISTER WITH AIR OUTLET DEVICE DESIGNATION
	RETURN OR EXHAUST REGISTER OR GRILLE WITH AIR INLET DEVICE DESIGNATION
	TERMINAL UNIT WITH/WITHOUT HEATING COIL
	FAN POWERED TERMINAL UNIT WITH/WITHOUT HEATING COIL

CONTROLS LEGEND	
	TOTALIZING BTU METER
	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUT-DOWN
	FLOW MEASURING STATION
	FLOW SWITCH
	CARBON MONOXIDE SENSOR WITH ZONE DESIGNATION
	CARBON DIOXIDE SENSOR WITH ZONE DESIGNATION
	TEMPERATURE SENSOR/THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
	HUMIDISTAT/HUMIDITY SENSOR WITH HUMIDIFIER DESIGNATION
	COMBINATION TEMPERATURE/HUMIDITY SENSOR
	DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE
	STATIC PRESSURE SENSOR WITH DESIGNATION
	REFRIGERANT SENSOR WITH DESIGNATION

MISCELLANEOUS	
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SWITCH
	NEW WORK
	EXISTING WORK
	EXISTING WORK TO BE REMOVED
	POINT OF NEW CONNECTION TO EXISTING WORK
	OVAL
	DIAMETER
	UNDERCUT DOOR
	RISER DESIGNATION
	RISER NUMBER
	SECTION DESIGNATION
	SECTION NUMBER DRAWING NUMBER
	DETAIL DESIGNATION
	DETAIL NUMBER DRAWING NUMBER
	EQUIPMENT DESIGNATION
	EQUIPMENT TYPE EQUIPMENT FLOOR AND NUMBER
	TERMINAL DESIGNATION
	THE NUMBER ON THE FLOOR FLOOR OR LEVEL
	AIR OUTLET/INLET DEVICE DESIGNATION
	LINEAR DIFFUSER DEVICE DESIGNATION
	TYPE NECK OR FACE SIZE GPM
	TYPE LENGTH & SLOT SIZE PLENUM INLET SIZE GPM
	KEYNOTE

MECHANICAL DRAWING LIST	
SHEET NUMBER	SHEET NAME
M-000	MECHANICAL LEGEND & ABBREVIATIONS
M-100	MECHANICAL FLOOR PLAN & SCHEDULES
M-700	MECHANICAL SPECIFICATIONS

APPLICABLE CODES

CODES:

- 2018 INTERNATIONAL MECHANICAL CODE
- COMPLY WITH LOCAL JURISDICTION REQUIREMENTS

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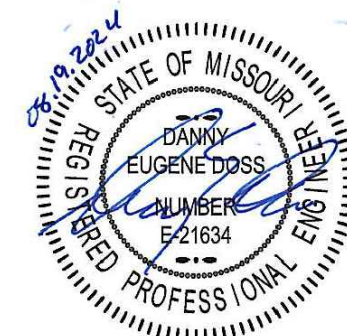
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ACADEMY BANK
BRANCH:
LEE'S SUMMIT

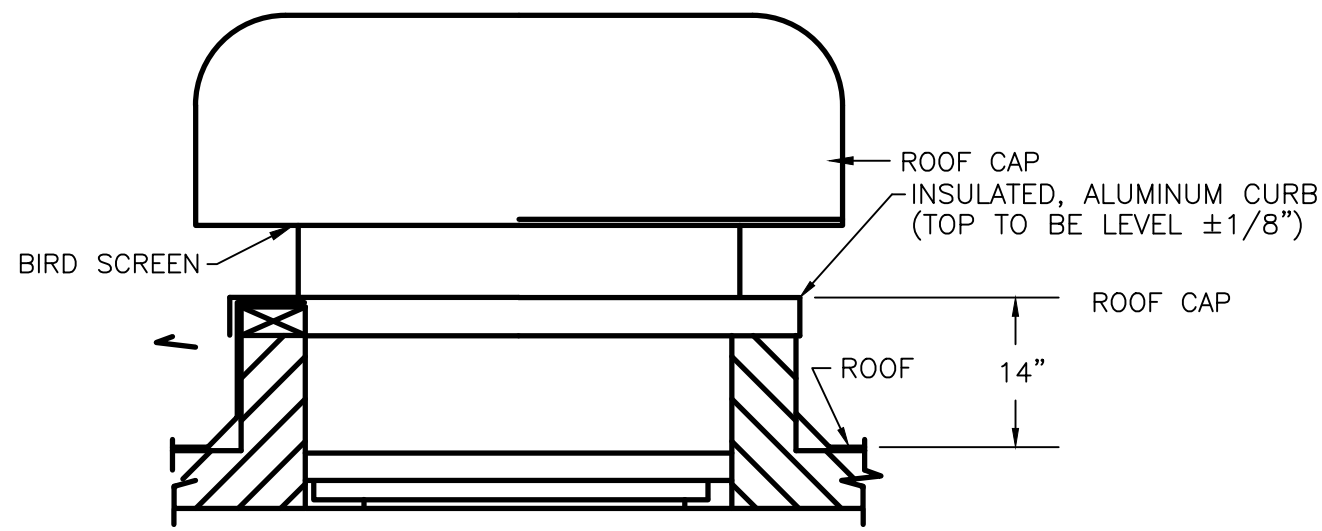
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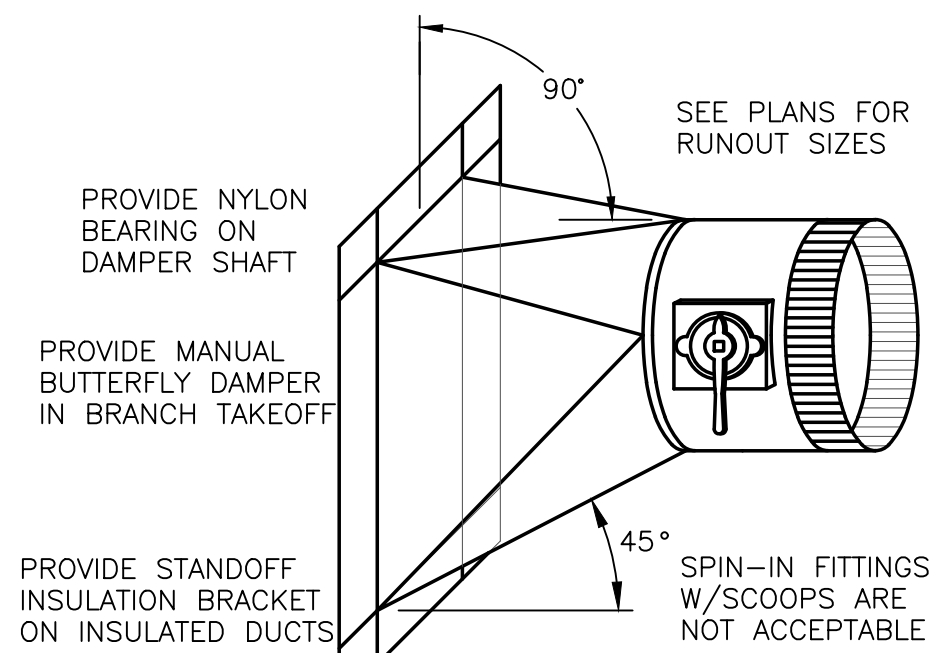
ISSUE DATE: 05.30.24
REV DESCRIPTION DATE

PROJECT NO. 16014
DRAWN BY:
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SHEET TITLE

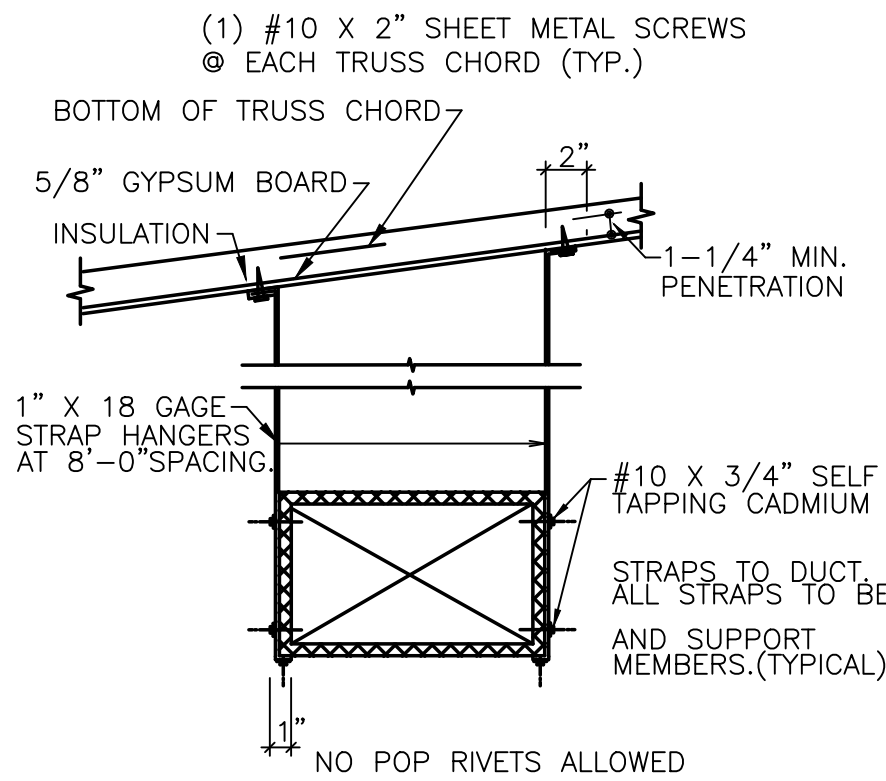
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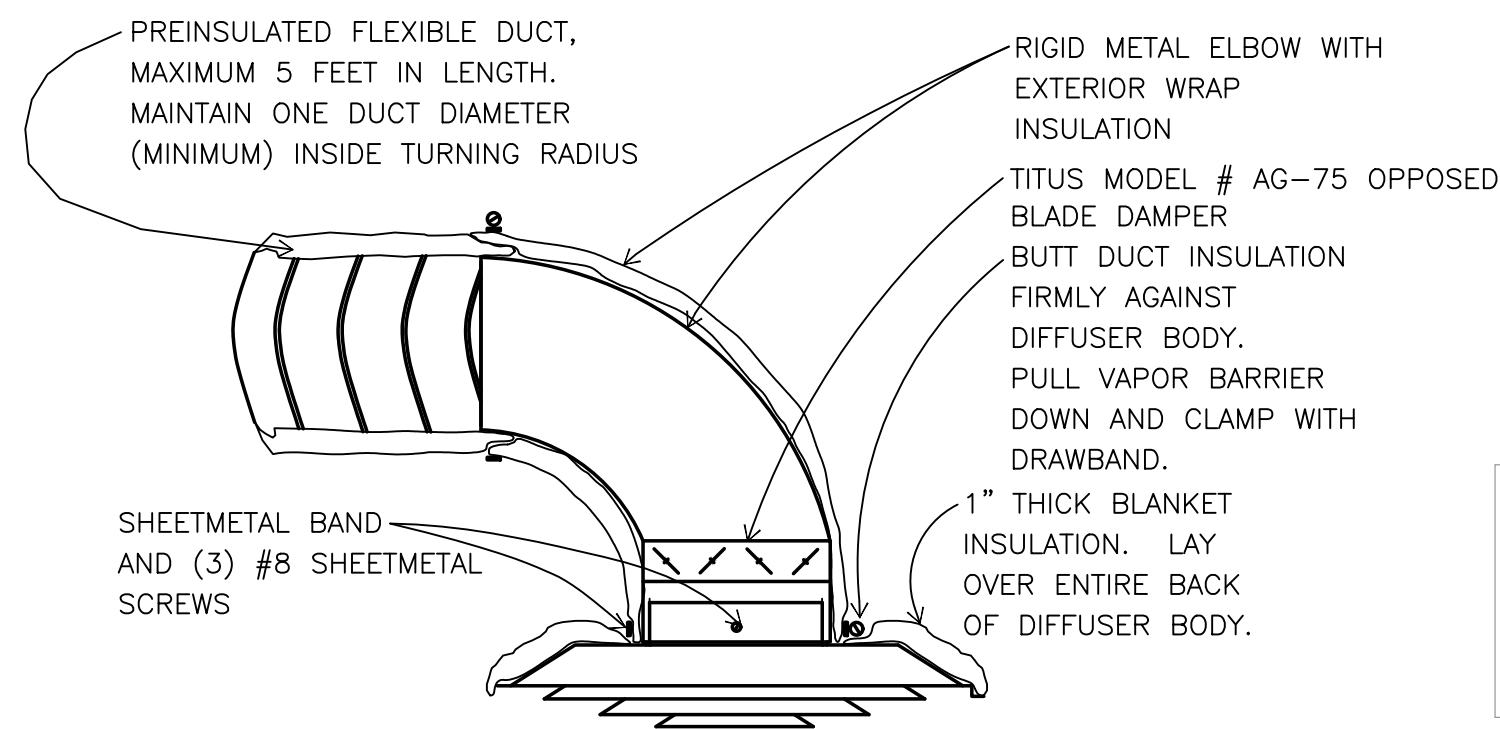
4 ROOF CAP
N.T.S. HD8



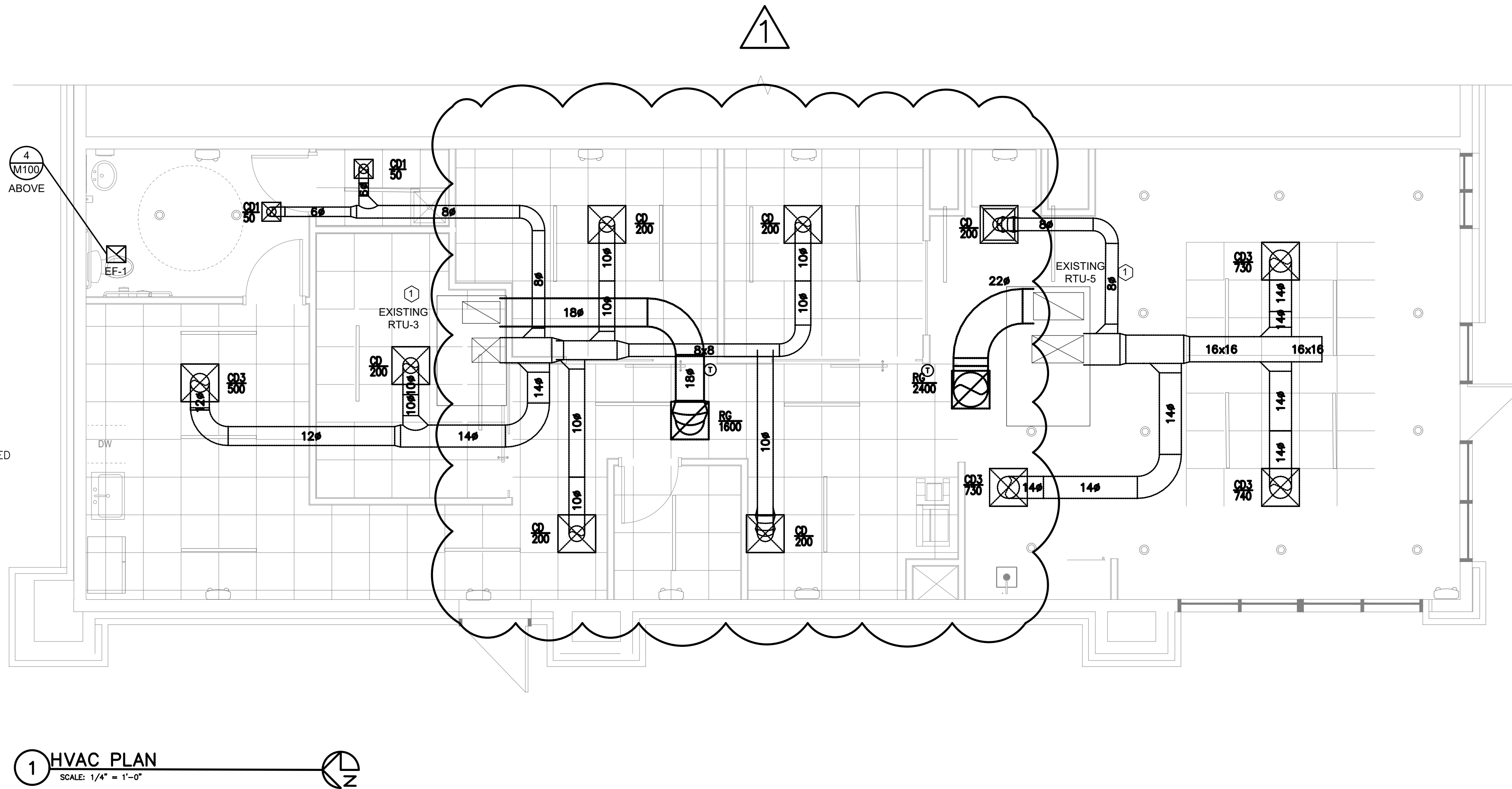
3 ROUND BRANCH
DUCT TAKE-OFF
N.T.S. HD29



2 DUCT STRAP HANGER DETAIL
N.T.S. HD23



1 DIFFUSER DETAIL
N.T.S. HD15



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

EXISTING ROOFTOP UNIT SCHEDULE

MARK	UNIT	COOLING COIL		FAN	HEAT	OUTDOOR AMBIENT		ELECTRICAL		ACCESSORIES NOTES
	MANUFACTURER MODEL	TOTAL (MBH)	OSA (CFM)	CFM ESP*	INPUT (MBH)	AIR TEMP LOW AMBIENT (F)		MOCP	VOLTS PHASE HERTZ	
RTU-3	TRANE YSC048E3	49	250	1600 0.5"	80	95 35		35	208 3 60	
RTU-5	TRANE YSC072E3	75	250	2400 0.5"	120	95 35		50	208 3 60	

AIR BALANCE SCHEDULE

MARK	SUPPLY	RETURN	O.S.A.
RTU-3	1600 CFM	1350 CFM	250 CFM
RTU-5	2400 CFM	2150 CFM	250 CFM

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	FACE SIZE (IN)	INLET SIZE (IN)	MODEL
CD	24x24	6Ø	TITUS - TMS
CD1	12x12	6Ø	TITUS - TMS
CD2	24x24	8Ø	TITUS - TMS
CD3	24x24	14Ø	TITUS - TMS
RG	24x48	22x38	TITUS - 50F

EXHAUST FAN/ROOF CAP SCHEDULE

MARK	MANUFACTURER MODEL APPLICATION	RPM CFM ESP	V/PH/Hz SONES	CFM STATIC PRESSURE	ACCESSORIES NOTES
EF	COOK GC-128	750 79 0.125	115/160 3.4		A,C,F 1,2
RC	COOK 10 PR EXHAUST AIR			150 .125	G,H 3

ACCESSORIES:
A. BACKDRAFT DAMPER.
B. NOT USED
C. ANODIZED ALUMINUM GRILLE.
D. NOT USED
E. NOT USED
F. GEMINI ISOLATOR KIT - ISOLATORS.
G. RCG 18 CURB -9.5
H. ALUM INSECT SCREEN.

NOTES:
1. VERIFY APPROVED EQUALS WITH OWNER.
2. SWITCH FAN WITH LIGHT SWITCH.
3. COORDINATE COLOR WITH ARCHITECT.

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REV DESCRIPTION DATE
REV 1 08-19-2024

PROJECT NO. 16014
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CHKD BY:
SHEET TITLE

M-100

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GENERAL NOTES			ABBREVIATIONS		SYMBOLS																	
<p>GENERAL NOTES</p> <p>1. REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).</p> <p>2. ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.</p> <p>3. CODES: COMPLETE INSTALLATION OF THE PLUMBING SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL AHJ.</p> <p>4. PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL EQUIPMENT, PIPING, ETC. A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL. B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES WORK. C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL SYSTEM. D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.</p> <p>5. PLUMBING CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL PLUMBING EQUIPMENT WITHIN THE STRUCTURE.</p> <p>6. ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING.</p> <p>7. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.</p> <p>8. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.</p> <p>9. PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.</p> <p>10. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.</p> <p>11. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.</p> <p>12. CABLE TRAYS: PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" ABOVE AND TO THE SIDE OF CABLE TRAYS.</p> <p>13. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.</p> <p>14. ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.</p> <p>COORDINATION REQUIREMENTS</p> <p>1. IRRIGATION: COORDINATE WITH IRRIGATION CONTRACTOR FOR THEIR WATER SUPPLY REQUIREMENTS AND LOCATIONS.</p> <p>2. GAS: CONTRACTOR/GAS COMPANY SHALL FINALIZE GAS METER AND GAS SERVICE LOCATIONS.</p> <p>3. UTILITIES: COORDINATE WITH SITE UTILITY CONTRACTOR AND CIVIL DRAWINGS FOR UTILITY CONNECTIONS AND EXTENSIONS.</p> <p>4. ROOF DRAINAGE: COORDINATE WITH GENERAL CONTRACTOR FOR ROOF DRAIN AND OVERFLOWS, SCUPPER DRAINS, AND CONDENSATE DRAINS.</p> <p>5. PLUMBING FIXTURES: COORDINATE WITH ARCHITECTURAL AND OTHER TRADES EXACT LOCATION OF ALL PLUMBING FIXTURES.</p> <p>6. PIPING: COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE CONSTRUCTION.</p>			<p>7. ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS, GAS BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.</p> <p>8. APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, ETC. CODES AND REGULATIONS. THE CONTRACTOR SHALL COORDINATE WITH HIS MANUFACTURE SUPPLIERS AND SHALL INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID.</p> <p>9. FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA AND LOCAL CODES. PROVIDE DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.</p> <p>PLUMBING NOTES</p> <p>1. CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER SYSTEM IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL CODES. CONNECT TO EACH FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, VACUUM BREAKERS, REGULATORS, UNIONS, ETC. AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE ON PLANS.</p> <p>2. HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE AND HOT WATER ON THE LEFT HAND SIDE.</p> <p>3. HOT WATER: NON--CIRCULATING HOT WATER PIPE SHALL NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS.</p> <p>4. VENT STACKS: COORDINATE VENT STACK WITH HVAC EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKES.</p> <p>5. CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT CODE AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO BE FITTED WITH CARPET INSERTS. LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS.</p> <p>6. SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH CURRENT CPC.</p> <p>7. SHUT--OFFS: PROVIDE 1/4 TURN BALL VALVE ANGLE STOP SHUT--OFF VALVES AND BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT BATH/SHOWERS.</p> <p>8. TUB SPOUTS SHALL BE THREADED (NO PUSH--ON FITTINGS).</p> <p>9. TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.</p> <p>10. ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HANDI--LAV GUARD OR EQUIVALENT. OFFSET P--TRAPS TO CLEAR WHEELCHAIR ACCESS.</p> <p>11. GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER EQUIPMENT LISTINGS, LOCAL CODES, AND NFPA.</p> <p>12. GAS CONNECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT ASSEMBLIES FOR ALL GAS FIRED KITCHEN EQUIPMENT PER LOCAL JURISDICTIONS.</p> <p>13. WATER HAMMER ARRESTERS: PROVIDE AT THE END OF HOT AND COLD WATER LINES SERVING TWO OR MORE FIXTURES; SIZE IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC.</p> <p>14. TRAP PRIMERS: PROVIDE TRAP PRIMERS AND PIPING FOR FLOOR DRAINS AND FLOOR SINKS. ARRANGE PIPING TO ACHIEVE EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS.</p> <p>15. P--TRAPS: ALL EXPOSED P--TRAPS SHALL BE CHROME--PLATED BRASS.</p>		<p>16. PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED. NO EXCEPTIONS.</p> <p>17. HOT WATER RECIRCULATING BALANCING VALVE VALVES TO BE BELL & GOSSET CIRCUIT SETTER (OR WATTS EQUIVALENT) WITH INTEGRAL READOUT PORTS, ADJUSTMENT KNOB, DRAIN CONNECTION, AND POSITIVE SHUTOFF.</p> <p>18. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.</p> <p>19. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.</p> <p>20. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.</p> <p>21. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.</p> <p>22. REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.</p> <p>23. CONDENSATE DRAIN: PROVIDE A P--TRAP FOR EACH HVAC UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.</p> <p>INSULATION/LINING NOTES</p> <p>1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.</p>		<p>ACU AIR CONDITIONING UNIT AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION BHP BRAKE HORSEPOWER BOH BACK OF HOUSE BTUH BRITISH THERMAL UNIT PER HOUR C COMMON CAP CAPACITY CC COOLING COIL CD CONDENSATE DRAIN CFF CAPPED FOR FUTURE CFM CUBIC FEET PER MINUTE CI CAST IRON CO CLEANOUTS COMB COMBUSTION CONT CONTINUE, CONTROL CONTR CONTRACTOR COTG CLEANOUTS TO GRADE CW COLD WATER D DIAMETER DB DRY BULB, DECIBEL DIM DIMENSION DN DOWN DS DOWN SPOUT EFF EFFICIENCY ELEC ELECTRIC CWC ELECTRIC WATER COOLER EXT EXTERIOR, EXTERNAL F FAHRENHEIT FCO FLOOR CLEANOUTS FCU FAN COIL UNIT FD FLOOR DRAIN FLR FLOOR FPM FEET PER MINUTE FPS FEET PER SECOND FS FLOOR SINK G GAS GAL GALLONS GPG GRAINS PER GALLON GPM GALLONS PER MINUTE GWB GYPSUM WALLBOARD HB HOSE BIBB HD HEAD HEDV HOSE END DRAIN VALVE HORIZ HORIZONTAL HP HORSEPOWER HPCW HIGH PRESSURE COLD WATER HVAC HEATING, VENTILATING, AND AIR CONDITIONING HW HOT WATER HWC HOT WATER RE--CIRCULATION HX HEAT EXCHANGER ID INDIRECT DRAIN, INSIDE DIAMETER IE INVERT ELEVATION IN INCH KS KITCHEN SINK KW KILOWATT L LONG, LENGTH LAV LAVATORY LB POUND MBH THOUSAND BTU PER HOUR MECH MECHANICAL MCA MIN. CIRCUIT AMPACITY MOCF MAX. OVER CURRENT PROTECTION MPG MEDIUM PRESSURE GAS MTD MOUNTED OD OUTSIDE DIMENSION/DIAMETER OPNG OVERFLOW DRAIN/DECK DRAIN OPENING P PUMP PD PRESSURE DROP, PUMPED DRAIN POC POINT OF CONNECTION PRV PRESSURE REDUCING VALVE PS PRESSURE RELIEF VALVE PSIG PUMPED STORM DRAINAGE POUNDS PER SQUARE INCH GAUGE PW PUMPED SANITARY WASTE RD ROOF DRAIN REF REFERENCE PRBP REDUCED PRESSURE BACKFLOW PREVENTER RPM REVOLUTIONS PER MINUTE SCH SCHEDULE SCW SOFTENED COLD WATER SF SQUARE FOOT SH SHOWER SO STORM OVERFLOW SP STATIC PRESSURE SR SUDS RELIEF SS STAINLESS STEEL, SANITARY SEWER SQUARE SQ SQUARE TYP TYPICAL UH UNIT HEATER UON UNLESS OTHERWISE NOTED V VENT VTR VENT THRU ROOF W WASTE, WATT, WIDE WC WATER CLOSET WCO WALL CLEANOUTS WH WALL HYDRANT WM WASHING MACHINE</p>		<p>GENERAL</p> <p>ARCHITECTURAL BACKGROUND (THIN LINE)</p> <p>NEW MECHANICAL WORK (HEAVY LINE)</p> <p>MATCHLINE OR PROPERTY LINE</p> <p>SECTION IDENTIFICATION (DETAIL SIMILAR)</p> <p>INDICATES DIRECTION OF CUTTING PLANE</p> <p>LETTER INDICATES SECTION (NO. INDICATES DETAIL)</p> <p>SHEET NUMBER WHERE SECTION IS DRAWN</p> <p>SHEET NUMBER WHERE SECTION IS TAKEN</p> <p>EQUIPMENT</p> <p>TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN)</p> <p>PIPING</p> <p>SANITARY SEWER (SS)</p> <p>PUMPED WASTE</p> <p>VENT (V)</p> <p>RAIN LEADER</p> <p>OVERFLOW RAIN LEADER</p> <p>CONDENSATE DRAIN</p> <p>DOMESTIC WATER (DW)</p> <p>HOT WATER, POTABLE, 120°F (DHW)</p> <p>HOT WATER, POTABLE, TEMPERATURE OTHER THAN 120°F</p> <p>HOT WATER CIRCULATING (HWC), POTABLE, 120°F</p> <p>HOT WATER CIRCULATING, POTABLE, TEMPERATURE OTHER THAN 120°F</p> <p>FUEL OIL FILL</p> <p>FUEL OIL SUPPLY</p> <p>FUEL OIL RETURN</p> <p>FUEL OIL VENT</p> <p>RELIEF VENT</p> <p>NATURAL GAS</p> <p>MEDIUM PRESSURE NATURAL GAS</p> <p>IRRIGATION</p> <p>PIPE CAP</p> <p>PIPE PLUG</p> <p>UNION</p> <p>FLANGE</p> <p>WYE STRAINER</p> <p>WYE STRAINER WITH CAPPED HOSE END BLOWDOWN VALVE</p> <p>BALL VALVE</p> <p>CHECK VALVE</p> <p>BALANCING OR PLUG VALVE</p> <p>BUTTERFLY VALVE</p> <p>PRESSURE REDUCING VALVE (PRV)</p> <p>AUTOMATIC CONTROL VALVE, 2--WAY</p> <p>AUTOMATIC CONTROL VALVE, 3--WAY</p> <p>RELIEF VALVE</p> <p>BALANCING/MEASURING VALVE</p> <p>FLEXIBLE CONNECTION IN PIPING</p> <p>PIPE ANCHOR</p> <p>PIPE ALIGNMENT GUIDE</p> <p>PIPE SUPPORT</p> <p>VALVE STATION OR ASSEMBLY</p> <p>INDIRECT DRAIN, PIPE TO DRAIN</p> <p>FLOOR DRAIN</p> <p>HOSE BIBB</p> <p>BREAK IN PIPING OR DUCTWORK</p> <p>PUMP</p> <p>PRESSURE GAUGE</p> <p>THERMOMETER</p> <p>PRESSURE/TEMPERATURE TEST PORT</p> <p>REDUCED PRESSURE BACKFLOW PREVENTER</p> <p>DOUBLE CHECK VALVE ASSEMBLY</p>													
<p>PIPE MATERIALS</p> <p>APPROVED PLUMBING MATERIAL: ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.</p> <p>1. UNDERGROUND SERVICE ENTRANCE PIPING: COPPER, TYPE K. PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.</p> <p>2. ABOVEGROUND WATER DISTRIBUTION PIPING IN RESTROOMS: PEX.</p> <p>3. STORM, VENT AND GRAVITY WASTE: NO--HUB CAST IRON</p> <p>ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.</p> <p>COUPLINGS: STANDARD COUPLINGS SHALL CONFORM TO CISPI 310 AND ASTM C 1277. SHIELD ASSEMBLIES SHALL CONSIST OF A STAINLESS STEEL BI--DIRECTIONAL CORRUGATED SHIELD; STAINLESS--STEEL BANDS AND TIGHTENING DEVICES; AND A ASTM C 564, RUBBER SLEEVE WITH INTEGRAL CENTER STOP. COUPLINGS SHALL BEAR THE NSF TRADEMARK, AND BE MANUFACTURED IN THE USA.</p> <p>EXCEPTION: SOLID WALL PVC SCH. 40 ASTM D2665 IS APPROVED ONLY FOR UNDERSLAB PIPING WITH PROPER TRENCHING PER ASTM D2321, FOR PARKING GARAGE AND BUILDING WITH MAXIMUM 3 STORIES. PRIOR TO BIDDING, CONTRACTOR SHALL CONTACT LOCAL AHJ FOR ACCEPTANCE OF PVC PIPING UNDERSLAB. EXPANSION LOOP OR EXPANSION JOINTS SHALL BE PROVIDED PER PIPING MANUFACTURER RECOMMENDATION.</p> <p>NOTE 1: PVC PIPING SHALL NOT BE USED FOR RECEPTOR & TRAP ARM WHERE WASTE TEMPERATURE CAN EXCEED 110°F. THIS INCLUDE PIPING AND RECEPTORS FOR 3 COMP SINK, DISHWASHER, COMMERCIAL LAUNDRY SINK, AND CONDENSATION DRAIN FOR GAS FIRED EQUIPMENT.</p> <p>NOTE 2: TRAP ARM FOR WASTE RECEPTOR OF SODA DISPENSER SHALL BE MADE OF SOLID CORE PVC SCH. 40 ASTM D2665. CAST IRON PIPING IS NOT ALLOWED FOR HIGH ACIDITY DRAINS. (PH<3)</p> <p>NOTE 3: FOAM (CELLULAR) CORE PVC PIPING/FITTING IS PROHIBITED BY ENGINEERING.</p> <p>4. CONDENSATE DRAIN PIPING: CPVC OR COPPER TYPE M.</p> <p>5. TEMPERATURE AND/OR PRESSURE RELIEF VALVE DISCHARGE PIPING: COPPER TYPE M</p> <p>6. GAS PIPING: STEEL PIPE, ASTM A 53; TYPE E OR S;GRADE B; SCHEDULE 40.</p>			<p>CONTRACTOR SUBSTITUTIONS & REVISIONS</p> <p>CONTRACTOR SUBSTITUTIONS & REVISIONS:</p> <p>PLEASE SUBMIT PROPOSALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL OR DOING WORK. FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND CATALOG DESIGNATIONS, THE MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM ARE CONSIDERED PART OF SPECIFICATION. ENGINEERING COSTS FOR REVISING MEP PLANS SHALL BE ADDRESSED IN THE COST ANALYSIS OF THE SUBSTITUTION PROPOSAL. CONTRACTOR TO COORDINATE WITH ENGINEER AND DETERMINE ASSOCIATED DESIGN AND PERMITTING COSTS. CONTRACTOR SHALL BE RESPONSIBLE FOR OTHER COSTS ASSOCIATED WITH UNFORESEEN ISSUES RESULTING FROM SUBSTITUTIONS OR REVISIONS.</p> <p>DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.</p>		<p>DRAWING INDEX</p> <table><tr><th>DWG</th><th>DESCRIPTION</th></tr><tr><td>P000</td><td>LEGEND, GENERAL NOTES & DRAWING INDEX</td></tr><tr><td>P100</td><td>WATER AND SEWER PIPING MAINS PLAN AND SCHEDULES</td></tr><tr><td>P400</td><td>ENLARGED DOMESTIC WATER PLUMBING PLAN</td></tr><tr><td>P401</td><td>ENLARGED SANITARY SEWER PLUMBING PLAN</td></tr><tr><td>P500</td><td>DETAILS</td></tr><tr><td>P600</td><td>ISOMETRICS</td></tr><tr><td>P700</td><td>SPECIFICATIONS</td></tr></table> <p>PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.</p>		DWG	DESCRIPTION	P000	LEGEND, GENERAL NOTES & DRAWING INDEX	P100	WATER AND SEWER PIPING MAINS PLAN AND SCHEDULES	P400	ENLARGED DOMESTIC WATER PLUMBING PLAN	P401	ENLARGED SANITARY SEWER PLUMBING PLAN	P500	DETAILS	P600	ISOMETRICS	P700	SPECIFICATIONS
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<p>APPLICABLE CODES</p> <p>THESE DRAWINGS ARE BASED ON THE FOLLOWING CODES:</p> <ul style="list-style-type: none">2018 INTERNATIONAL BUILDING CODE (IBC)2018 INTERNATIONAL MECHANICAL CODE (IMC)2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)2018 INTERNATIONAL PLUMBING CODE																						

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SEAL

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PERMIT SET

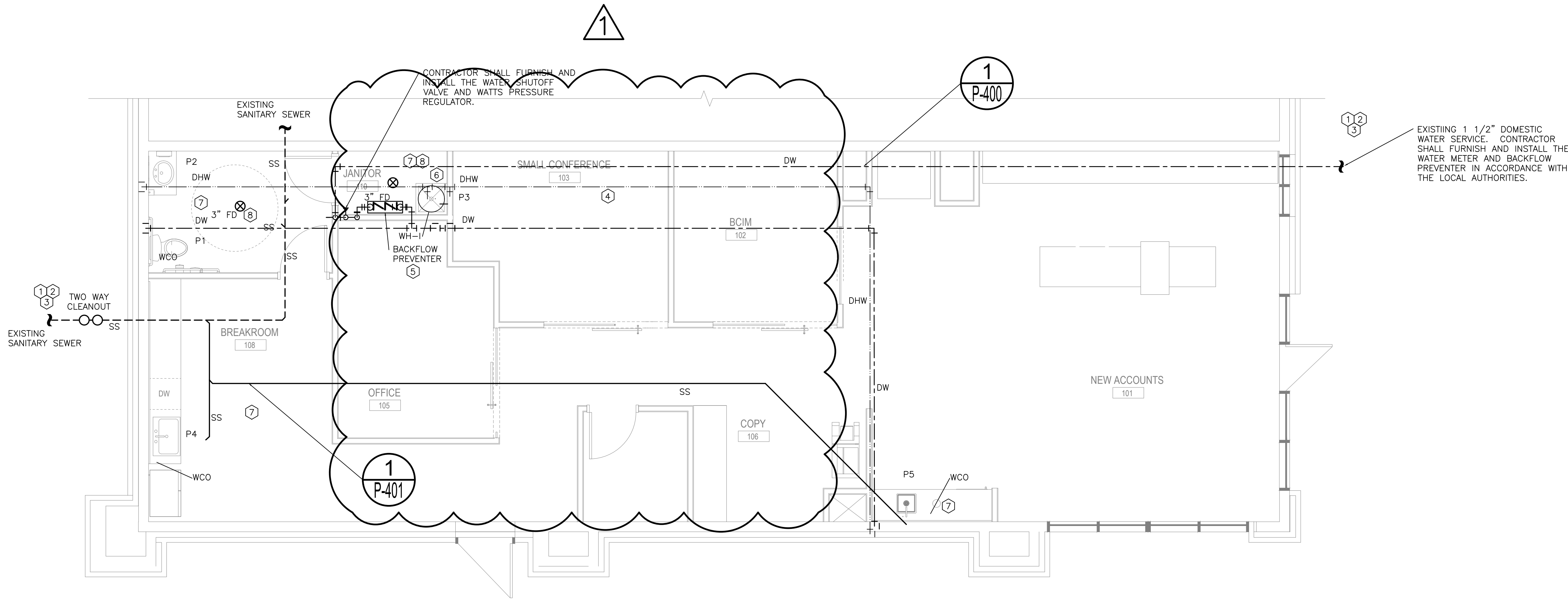
ISSUE DATE: 05.30.24
REV DESCRIPTION DATE

PROJECT NO. 16014
DRAWN BY:
CHKD BY:
SHEET TITLE

P-000

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MOUNTING HEIGHT SCHEDULE	
FIXTURE	DIMENSION
TOILET SEATS (ADA)	17" - 19" AFF TOP OF SEAT MAX.
LAVATORIES (ADA)	34" AFF TO RIM. 29" MIN. TO BOTTOM OF APRON.
DRINKING FOUNTAIN (ADA)	36" AFF TO SPOUT

WATER SUPPLY CALCULATION	
SITE LOCATION: LEE SUMMIT, MISSOURI	
STATIC PRESSURE: 70 PSI (ASSUMED)	FIXTURE UNIT CALCULATION: (1) WC 5 x 1 = 5
TOTAL F.U.: 14	(3) LAV 2 x 3 = 6
GPM: BUILDING USAGE 17	(1) MS 3 x 1 = 3
GPM: IRRIGATION USAGE 0	
TOTAL PROJECTED WATER USAGE 17 GPM	
WATER METER: 3/4"	
70 PSI PRESSURE IN MAIN	
- 5 PSI LOSS THROUGH 3/4" METER	
- 2 PSI LOSS THROUGH TAP	
- 20 PSI FUTURE OPERATING PRESSURE	
- 5.2 PSI DROP FOR ELEVATION (12 FT.)	
- 15 PSI BACKFLOW PREVENTER	
25.8 PSI AVAILABLE PRESSURE	
PIPE LENGTH (TAP TO METER) 50 FT. (ESTIMATED)	
PIPE LENGTH (METER TO BUILDING) 30 FT. (ESTIMATED)	
PIPE LENGTH (TO FURTHEST FIXTURE) 145 FT.	
VERTICAL LENGTH 10 FT.	
EQUIVALENT LENGTH OF FITTINGS 55 FT.	
TOTAL DEVELOPED LENGTH 290 FT.	
TOTAL F.U. = 14	
MAX ALLOWED LOSS (PER 100 FT. OF PIPE) = AVAILABLE PRESSURE 25.8 PSI x 100 = 8.9 PSI/100 FT.	
WATER SERVICE FROM EXISTING METER SHALL BE 1 1/4" AS SHOWN ON DETAIL "2" SHEET P600.	

THERMAL EXPANSION TANK SCHEDULE					
MARK	MANUFACTURER MODEL	TOTAL VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAXIMUM WORKING PRESSURE	FACTORY PRECHARGE (PSI)
ET-1	WATTS DETA-5	3.5	2.3	150 PSIG	40

KEYED DOMESTIC WATER NOTES

- CONTRACTOR SHALL CONFIRM EXACT LOCATION OF EXISTING SEWER AND WATER LINE AND EXISTING WATER METER WITH LOCAL UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF UTILITIES OUTSIDE THE BUILDING THAT WORK MAY INTERFERE WITH OR CROSS.
- CONTRACTOR SHALL SLEEVE NEW WATER LINE WHERE IT CROSSES THE SANITARY SEWER LINE. WATER LINE SHALL BE PLACED ABOVE THE SEWER LINE.
- HOT AND COLD WATER LINES RUN OVER HEAD SHALL BE INSULATED AND RUN ON THE WARM SIDE OF THE CEILING INSULATION.
- IF NON EXISTING, A BACKFLOW PREVENTER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE BACKFLOW PREVENTER SHALL BE A REDUCED PRESSURE ZONE TYPE, WATTS LF009M2QT SERIES. IF THE BACKFLOW IS INSTALLED INDOORS MOUNT BACKFLOW PREVENTER 12 TO 30 INCHES AFF AND A MINIMUM OF 12 INCHES FROM ANY WALL. ROUTE DRAIN LINE TO THE MOP SINK AND TERMINATE ABOVE THE FLOOD RIM OF THE SINK. PROVIDE 2" AIR GAP. CONTRACTOR SHALL PROVIDE SHUT OFF VALVES ON EACH SIDE OF THE BACKFLOW PREVENTER.
- MOUNT WATER HEATER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ROUTE TEMPERATURE AND PRESSURE RELIEF DRAIN LINE DOWN IN WALL TO TERMINATE TO THE OUTSIDE AT 12" ABOVE GRADE. (OR TO MOP SINK PROVIDE 2" AIR GAP). HORIZONTAL DRAIN LINE SHALL BE SLOPED AT 1/4" PER 12" MINIMUM. CONFORM TO APPLICABLE CODES.
- SEE THE ARCHITECTURAL FLOOR PLAN AND ELEVATIONS ON THE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE AND DRAIN LOCATIONS.
- PROVIDE JAY R. SMITH "PRIME-EZE" WATER SAVE TRAP PRIMER PRODUCT NO. 2699 OR EQUAL BY OTHER MANUFACTURERS FOR FLOOR DRAINS.

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MFG	CATALOG NUMBER	TRIM	RUNOUT SIZES (MINIMUM)				NOTES
					CW	HW	WASTE	VENT	
P1	ELONGATED FLUSH TANK TOILET	AMERICAN STANDARD	COLONY 250AB104.020 (WHITE)	5503A00B.020 TOILET SEAT	1/2"	----	3"	2"	B,C,E,F
P2	UNDER-MOUNT BATHROOM LAVATORY	KOHLER	ARHCR K-2355	FAUCET - KOHLER - STRAYT 103536-SANA-OP AC SINGLE POWER SUPPLY K-13480-A. CONTRACTOR TO INSTALL A WATTS LFMMV- MIXING VALVE TO SERVE THE FAUCET (SET TO 110 F).	1/2"	1/2"	1 1/2"	1 1/2"	A,B,C,D, E,G
P3	SERVICE SINK	MUSTEE	63M	ONE PIECE MOLDED FROM HIGH IMPACT RESISTANT DURASTONE STRUCTURAL FIBERGLASS (24x24), 63.600A FAUCET, 65.700 HOSE AND HOSE HOLDER, 65.600 MOP HANGER, 63.401 20-3/4" VINYL BUMPER GUARDS	3/4"	3/4"	2"	1 1/2"	
P4	UNDER COUNTER LAVATORY	BLANCO	518478	FAUCET - MOEN S62308 SINGLE HANDLE HIGH ARC PULLDOWN PREP/BAR FAUCET. A WATTS LFMMV- MIXING VALVE TO SERVE THE FAUCETS (SET TO 110 F).	1/2"	1/2"	1 1/2"	1 1/2"	A,B,D,G
P5	UNDER COUNTER LAVATORY	BLANCO	443144	FAUCET - MOEN S62308 SINGLE HANDLE HIGH ARC PULLDOWN PREP/BAR FAUCET. A WATTS LFMMV- MIXING VALVE TO SERVE THE FAUCETS (SET TO 110 F).	1/2"	1/2"	1 1/2"	1 1/2"	A,B,D,G
NOTES: A. CHROME PLATED BRASS "P" TRAP. B. FLEXIBLE SUPPLIES WITH KEYS TO STOP. C. ACCEPTABLE MANUFACTURERS ARE AMERICAN STANDARD, ELJER, AND KOHLER. D. HOT WATER LINE SHALL BE INSULATED BETWEEN WALL AND FIXTURE. E. FIXTURES SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED. F. HANDICAP WATER CLOSETS SHALL HAVE FLUSH HANDLE ON WIDE SIDE OF TOILET STALL. COORDINATE WITH GRAB-BARS. G. CONTRACTOR SHALL FURNISH AND INSTALL WATTS LFMMV- MIXING VALVES TO SERVE THE FAUCETS (SET TO 110 F).									

ELECTRIC WATER HEATER					
MARK	MANUFACTURER MODEL	INPUT KW TANK SIZE	VOLTZ HERTZ PHASE	RECOVERY, GPH RISE DEGREES F.	NOTES
WH-1	AO SMITH DEL - 20	4.5 KW 20 GAL.	208 V 60 HZ 1 PH	18 100	1,2,3
NOTES: 1. VERIFY VOLTAGE WITH ELECTRICAL CONTRACTOR. 2. FURNISHED AND INSTALLED BY CONTRACTOR. 3. CONTRACTOR SHALL FURNISH AND INSTALL VACUUM BREAKER.					

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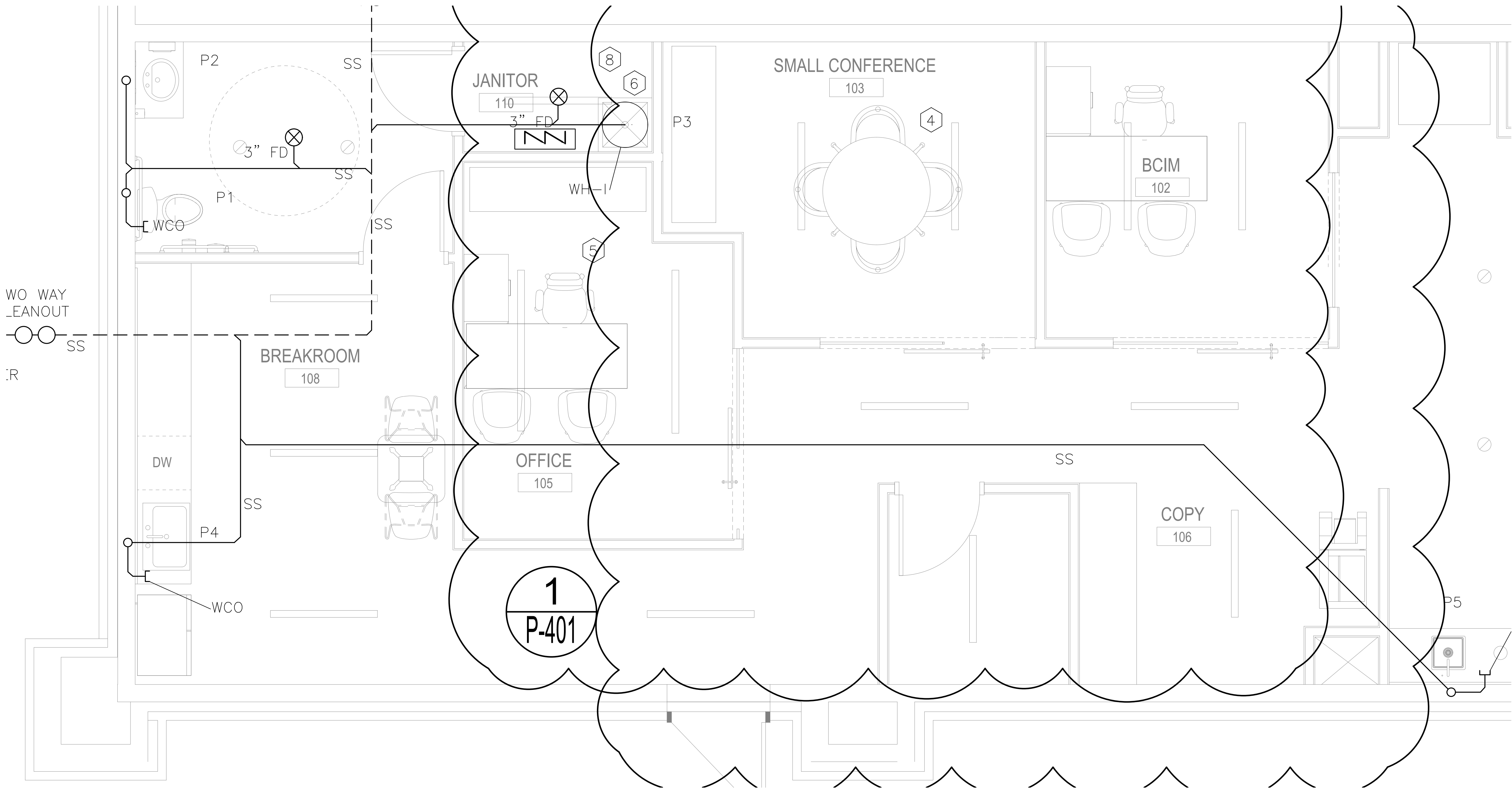


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TO COMPLETE THE WORK AS
OUTLINED, SHALL BE BROUGHT TO
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ALL LOUVER SIZES AND LOCATIONS
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1 ENLARGED SANITARY SEWER PLAN
SCALE: 1/2" = 1'-0"

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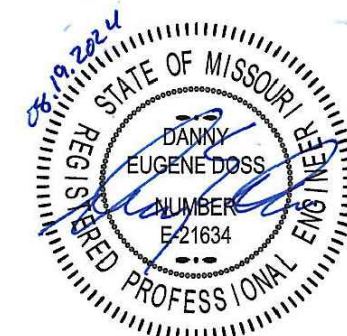
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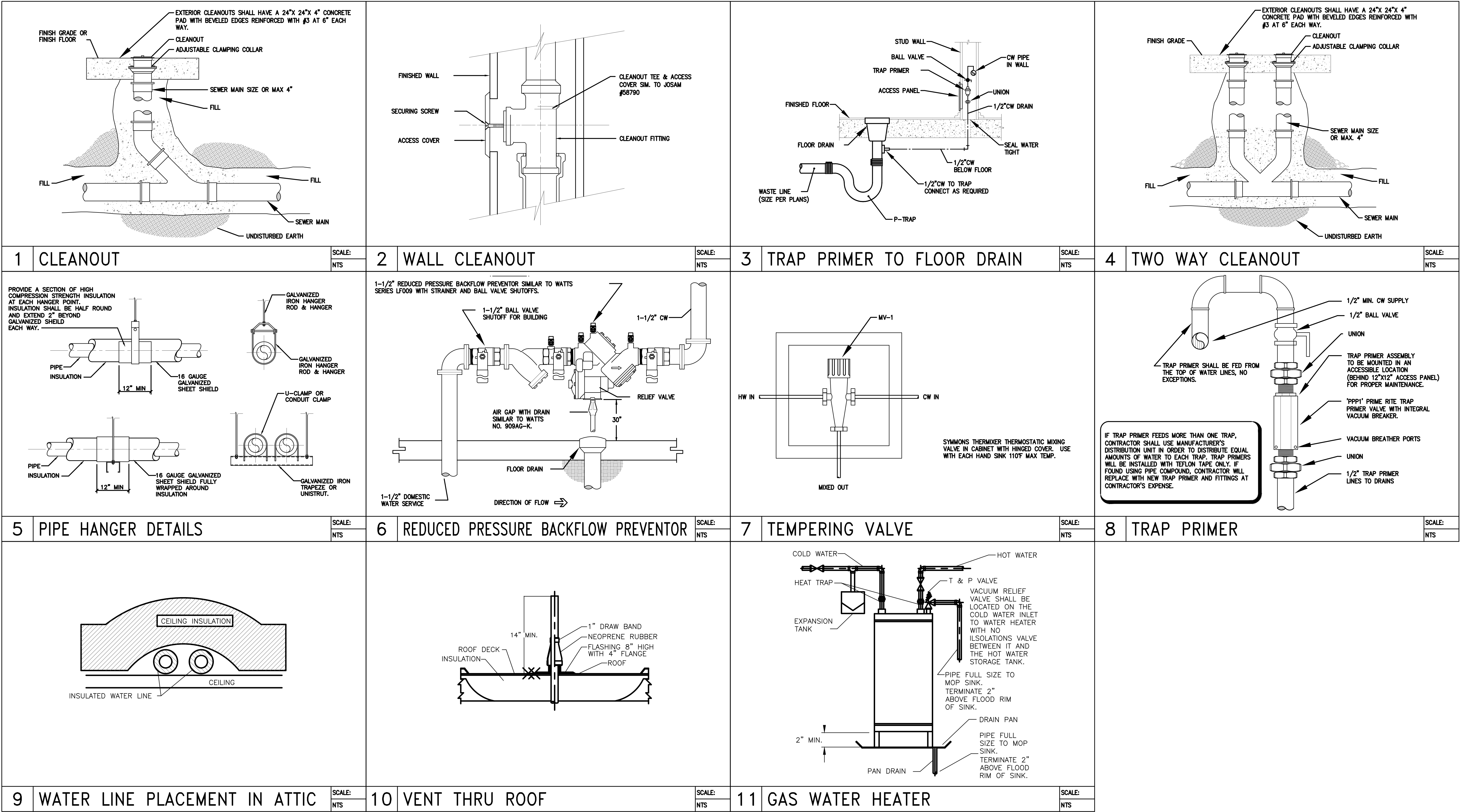
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SANITARY DRAIN, WASTE, AND VENT PIPING SYSTEM SECTION 15411		DOMESTIC WATER PIPING SYSTEM SECTION 15412		3.02 INSTALLATION CONTINUED:		3.02 INSTALLATION:			
PART 1 GENERAL		PART 1 GENERAL		I. INSTALL GATE VALVE TO ISOLATE OR SHUT-OFF EQUIPMENT OR BRANCH LINES. USE GLOBE VALVES WHERE ADJUSTABLE FLOW OR THROTTLING IS REQUIRED.		A. SLOPE NATURAL GAS PIPING MINIMUM OF 1 INCH IN 40 FEET AND PROVIDE MINIMUM 12 INCH DEEP DRIP POCKET SAME SIZE AS PIPE, AT ALL LOW POINTS AND AT FINAL CONNECTIONS TO EQUIPMENT. PROVIDE MALLEABLE IRON REMOVABLE SCREW-ON CAP ON BOTTOM OF DRIP POCKET.		5. CELLULAR GLASS: INORGANIC, INCOMBUSTIBLE, FOAMED OR CELLULATED GLASS WITH ANNEALED, RIGID, HERMETICALLY SEALED CELLS. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.	
1.01 WORK INCLUDED:		1.01 WORK INCLUDED:		J. INSTALL HOSE BIBBS CENTERLINE, 2 FEET ABOVE FLOOR OR GRADE. INSTALL GARBAGE CAN WASH VALVE 4 FEET ABOVE FLOOR OR DRAIN.		BUY UNDERGROUND GAS PIPING MINIMUM OF 2 FEET BELOW FINISHED GRADE.		SUBJECT TO COMPLIANCE WITH LOCAL REQUIREMENTS:	
A. UNDERGROUND DRAIN AND VENT PIPING.		A. WATER SERVICE PIPING.		K. PROVIDE PRV TO LIMIT MAXIMUM STATIC PRESSURE AT PLUMBING FIXTURES TO 70 PSIG. SUBMIT PRESSURE DATA TAKEN AT DIFFERENT TIMES AS APPROVED OR INSTALL PRV AT SERVICE CONNECTION OR IN BUILDING. PROVIDE PRV AT OTHER SEPARATE FIXTURES WHEN SHOWN ON DRAWINGS.		B. PROVIDE ONE OR MORE ANODES, SIZED FOR PIPE SIZE AND LENGTH OF UNDERGROUND SERVICE.		A. FLEXIBLE ELASTOMERIC: CLOSED-CELL, SPONGE OR EXPANDED-RUBBER MATERIALS.	
B. ABOVE GROUND DRAIN, WASTE, AND VENT PIPING.		C. TEMPERATURE AND PRESSURE (T & P) RELIEF PIPING.		L. MAKE PROVISIONS NECESSARY TO PREVENT CROSS CONNECTIONS WITH SANITARY DRAINAGE SYSTEM OR OTHER NON-POTABLE SOURCES. PROVIDE REDUCED PRESSURE TYPE BACKFLOW PREVENTERS WHEN REQUIRED.		C. USE FLEXIBLE CONNECTOR AND GAS COCK FOR FINAL CONNECTION TO EACH APPLIANCE OR OTHER GAS FUELED UNIT.		B. HIGH-TEMPERATURE, MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.	
C. SANITARY SEWER SERVICE PIPING.		D. VALVES.				D. PROVIDE DIELECTRIC UNION WHERE PIPING EMERGES FROM UNDERGROUND.		C. HIGH-TEMPERATURE, MINERAL-FIBER BOARD INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.	
D. CONDENSATION DRIP AND OVERFLOW PIPING.		E. SHOCK SUPPRESSORS.				E. WELD ALL CONNECTIONS WHERE PIPING MUST BE CONCEALED. PROVIDE VENTILATED PIPE SLEEVES WHERE REQUIRED.		MINERAL-FIBER, PERFORMED PIPE INSULATION.	
E. CLEANOUTS.						F. USE TEFLON TAPE OR OTHER APPROVED JOINT COMPOUND TO CONNECT THREADED PIPE.		D. MINERAL-FIBER, PIPE AND TANK INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.	
F. FLOOR DRAINS.						G. ARRANGE WITH LOCAL UTILITY FOR GAS TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH NATURAL GAS SERVICE.		E. POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC INSULATION.	
1.02 RELATED WORK:		1.02 RELATED WORK:		3.03 TESTING:		H. MAKE SURE ALL PIPING CONCEALED IN WALLS OR OTHER AREAS ARE PROPERLY VENTED. AT TOP OF SOLID WALLS VENT WITH OPENING WHICH IS 2 TIMES THE DIAMETER OF THE PIPE.		F. POLYSTYRENE: RIGID, EXTRUDED CELLULAR POLYSTYRENE INTENDED FOR USE AS THERMAL INSULATION.	
A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.		A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.		A. BEFORE CONCEALING OR INSULATING, TEST DOMESTIC WATER PIPING AND PROVE LEAK FREE. SUBJECT SYSTEM TO MINIMUM HYDROSTATIC PRESSURE OF 100 PSIG AND HOLD FOR ONE HOUR.		I. PROVIDE VENTILATED PIPE SLEEVES UNDER ALL PAVING AND OTHER HARD SURFACES.		G.	
		B. SECTION 15005 MECHANICAL INSULATION.				J. BOND INTERIOR METAL GAS PIPING TO THE ELECTRICAL SYSTEM GROUND. PIPING SHALL BE ELECTRICALLY CONTINUOUS.		2.02 INSULATING CEMENTS:	
1.03 SUBMITTALS:		1.03 SUBMITTALS:		3.04 STERILIZATION:		K. INSTALL CONTINUOUS STRIP OF PLASTIC UTILITY MARKER TAPE OVER GAS PIPING. USE STRIP WITH TRACE WIRE FOR PLASTIC PIPE.		A. MINERAL-FIBER, HYDRAULIC-SETTING INSULATING AND FINISHING CEMENT: COMPLY WITH ASTM C 449/C 449M.	
A. SUBMIT MANUFACTURER'S DATA SHEETS ON CLEAN OUTS AND FLOOR DRAINS.		A. SUBMIT MANUFACTURE'S DATA SHEETS ON VALVES AND SHOCK SUPPRESSORS.		A. AFTER TESTS HAVE BEEN SUCCESSFULLY COMPLETED, THOROUGHLY FLUSH AND STERILIZE THE COMPLETED DOMESTIC WATER SYSTEM IN ACCORDANCE WITH AWWA C601.		L. IDENTIFY AND LABEL MEDIUM PRESSURE GAS PIPING AT BOTH ENDS AND THE 6 FOOT INTERVALS IN BETWEEN.		2.03 ADHESIVES:	
B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED FOR THE LISTED SERVICES AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPLICABLE DATA.		B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPLICABLE DATA.		B. FLUSH ENTIRE SYSTEM AFTER STERILIZATION UNTIL RESIDUAL CHLORINE CONTENT IS NO GREATER THAN 0.2 PARTS PER MILLION.		M. CONTRACTOR SHALL COORDINATE WITH LOCAL GAS COMPANY THE STANDARD GAS PRESSURE. SHOULD THE SYSTEM EXCEED THE STANDARD GAS PRESSURE AND USE MEDIUM OR HIGH PRESSURE GAS CONTRACTOR SHALL PROVIDE A GAS REGULATOR AT EACH PIECE OF EQUIPMENT REQUIRING GAS SHOULD LOCATIONS NOT BE SHOWN ON DRAWINGS. PROVIDE VENTING ACCORDINGLY SHOULD THE REGULATOR BE INSTALLED INSIDE THE BUILDING.		A. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED, UNLESS OTHERWISE INDICATED.	
C. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF INSTALLED PIPING.		C. SUBMIT SHOP DRAWINGS OF SHOCK SUPPRESSORS LAYOUT PROPOSED.		C. CHLORINATE ONLY WHEN THE BUILDING IS UNOCCUPIED.		N. PROVIDE VENTING ACCORDINGLY SHOULD THE REGULATOR BE INSTALLED INSIDE THE BUILDING.		1. CELLULAR-GLASS POLYSTYRENE.	
D. SUBMIT SHOP DRAWINGS ON MANHOLES INDICATING MANUFACTURED ITEMS, REINFORCING STEEL REQUIREMENTS, ETC.		D. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF INSTALLED PIPING.						2. FLEXIBLE ELASTOMERIC AND POLYOLEFIN.	
		E. SUBMIT CERTIFICATE OF COMPLETION OF CHLORINATION.						3. MINERAL-FIBER.	
PART 2 PRODUCTS		PART 2 PRODUCTS		END OF SECTION				4. POLYSTYRENE.	
2.01 PIPING:		2.01 PIPING:		NATURAL GAS PIPING SYSTEM SECTION 15413				5. ASJ, FSK, AND PVDC JACKET ADHESIVE.	
A. UNDERGROUND DRAIN AND VENT PIPING INSIDE BUILDING AND TO FIVE FEET OUTSIDE BUILDING:		A. FOR UNDERGROUND WATER SERVICE PIPING OUTSIDE BUILDING TO WATER METER:		PART 1 GENERAL				6. PVC JACKET.	
1. SCHEDULE 40 PVC PIPE AND FITTINGS.		1. ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 95-5 SOLDER.		1.01 WORK INCLUDED:				2.04 MASTICS:	
B. ABOVE GROUND DRAIN AND VENT PIPING:		2. THICKNESS CLASS 50, CEMENT LINED, SEAL COATED, HUB AND SPIGOT TYPE DUCTILE IRON WITH JOINTS MADE WITH RUBBER COMPRESSION RINGS MANUFACTURED FOR THE PURPOSE. (OPTIONAL)		A. UNDERGROUND NATURAL GAS SERVICE PIPING.				A. VAPOR-BARRIER MASTIC	
1. SCHEDULE 40 PVC PIPE AND FITTINGS.				B. INTERIOR NATURAL GAS PIPING.				B. BREATHER MASTIC.	
C. WASTE ARMS FOR LAVATORIES, SINKS, AND URINALS:				C. EXTERIOR EXPOSED NATURAL GAS PIPING.				2.05 SEALANTS:	
1. DWV COPPER PIPE WITH CAST BRASS ADAPTERS AND WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 50-50 SOLDER.				D. CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT.				A. JOIN SEALANT.	
2. SCHEDULE 40 GALVANIZED STEEL PIPE WITH SCREWED FITTINGS (OPTIONAL).				E. COCKS.				B. FSK AND METAL JACKET FLASHING SEALANT.	
D. UNDERGROUND SEWER PIPING OUTSIDE BUILDING TO SEWER MAIN:		1. 1" AND SMALLER - ASTM B88 TYPE AS INDICATED ON DRAWINGS SOFT COPPER TUBING WITH NO FITTINGS OR JOINTS PERMITTED UNDER SLAB. MAKE CONNECTIONS ABOVE SLAB USING WROUGHT COPPER FITTINGS AND 95-5 SOLDER.		1.02 RELATED WORK:		A. BEFORE CONCEALING, TEST NATURAL GAS PIPING SYSTEM AND PROVE LEAK FREE. SUBJECT SYSTEM TO AT LEAST 50 PSIG AIR PRESSURE FOR 3 MINUTES.		ASJ FLASHING SEALANT AND VINYL, PVDC, AND PVC JACKET FLASHING SEALANT.	
1. SCHEDULE 40 PVC PIPE AND FITTINGS.				A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.		B. CHECK UNDERGROUND PIPING COATING WITH A "HOLIDAY" DETECTOR AND PROVE FREE FROM LEAKAGE CURRENTS THROUGH COATING.		2.06 FACTORY-APPLIED JACKETS:	
E. CONDENSATION DRIP AND OVERFLOW PIPING: SOLVENT-CEMENT WELD.		2. 1-1/4" AND LARGER - ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MAKE WITH SIL-FOS SOLDER (15% SILVER CONTENT).				END OF SECTION		A. ASJ	
2.02 CLEAN OUTS:		C. FOR EXPOSED PIPING IN TOILET ROOMS AND OTHER FINISHED AREAS, USE CHROME PLATED BRASS PIPE WITH THREADED FITTINGS.		1.03 SUBMITTALS:		INSULATION SECTION 15414		B. ASJ-SSL	
A. PROVIDE CLEAN OUTS COMPATIBLE WITH TYPE OF DRAIN PIPING TO WHICH IT IS CONNECTED. PROVIDE COVERS COMPATIBLE WITH TYPE OF FLOOR OR WALL FINISH WITH CONSIDERATION GIVEN TO TRAFFIC CONDITIONS. MAKE CLEAN OUTS SAME SIZE AS PIPE THROUGH 4 INCHES.		D. FOR ABOVE GROUND WATER AND T & P RELIEF PIPING INSIDE BUILDING, USE ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 95-5 SOLDER.		A. SUBMIT MANUFACTURER'S DATA SHEETS ON GAS COCKS.		PART 1 GENERAL		C. FSK	
B. FLOOR CLEAN OUT (FCO): CAST IRON WITH TAPERED BRASS PLUG, THREADED ADJUSTABLE HOUSING, AND ROUND NICKEL BRONZE SCORIATED TOP.		E. SOLDER CONTAINING LEAD SHALL NOT BE USED ON POTABLE WATER SYSTEMS.		B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND THERE APPLICABLE DATA.		1.01 WORK INCLUDED:		D. PVDC JACKET FOR INDOOR APPLICATIONS	
C. CLEAN OUT TO GRADE (COTG): SAME AS FCO EXCEPT WITH HEAVY DUTY CAST IRON SCORIATED TOP. SET COTG IN 10-INCH DIAMETER CONCRETE BASE 4-INCHS THICK AND FLUSH WITH FINISHED GRADE.		2.02 VALVES:		C. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF PIPING AS INSTALLED.		A. INSULATION MATERIALS.		E. PVDC JACKET FOR OUTDOOR APPLICATIONS	
		A. PROVIDE VALVES WITH SUITABLE MATERIALS INCLUDING DISC, PLUGS, BALLS, GASKETS, LININGS, AND LUBRICANTS FOR THE SERVICE, TEMPERATURE, AND PRESSURE TO WHICH THEY WILL BE EXPOSED. FURNISH WITH SOLDER OR SCREWED CONNECTIONS.		1.04 QUALITY ASSURANCE:		B. INSULATING CEMENTS.		F. PVDC-SSL JACKET	
2.03 FLOOR DRAINS:		B. GATE VALVES: BRONZE, NON-RISING STEM, INSIDE CREW, DOUBLE WEDGE.		A. CONFORM TO ASME CODE AND APPLICABLE STATE REGULATIONS WITH ALL WELDING MATERIALS AND WELDING OPERATOR'S QUALIFICATIONS. USE ONLY OPERATORS FULLY QUALIFIED AND CERTIFIED UNDER THE REQUIREMENTS OF THE ARKANSAS GAS PIPELINE CODE (AFPC).		C. ADHESIVES.		2.07 FIELD-APPLIED FABRIC-REINFORCING MESH:	
A. STANDARD FLOOR DRAIN (FD): LACQUERED CAST IRON BODY WITH FLANGE, CLAMPING COLLAR WITH SEEPAGE OPENINGS, AND ADJUSTABLE SQUARE SATIN BRONZE STRAINER. FLOOR DRAINS ARE 2 INCHES UNLESS SHOWN OTHERWISE.		C. GLOBE OR ANGLE VALVES: BRONZE, RISING STEM, INSIDE CREW, RENEWABLE COMPOSITION DISC.		PART 2 PRODUCTS		D. MASTICS.		A. WOVEN POLYESTER FABRIC	
		D. CHECK VALVES: BRONZE WITH SWING DISC.		2.01 PIPING:		E. SEALANTS.		2.08 FIELD-APPLIED JACKETS:	
				A. UNDERGROUND PIPING:		F. FACTORY-APPLIED JACKETS.		A. PVC JACKET	
				1. PLASTIC PIPE OR TUBING AND FITTINGS CONFORMING WITH ASTM D 2513. REINFORCED EPOXY RESIN GAS PIPE AND FITTINGS CONFORMING TO ASTM D 2517 FOR OUTSIDE UNDERGROUND USE ONLY. PLASTIC SHALL BE USED ONLY BELOW GRADE. PLASTIC PIPE AND FITTINGS SHALL BE JOINED BY APPROVED METHODS AND MANUFACTURING INSTRUCTIONS. MILL COAT PIPE WITH HIGH DENSITY POLYETHYLENE OVER ADHESIVE UNDERCOATING.		G. FIELD-APPLIED FABRIC-REINFORCING MESH.		B. ALUMINUM JACKET	
				2. WRAP FIELD JOINTS AND FITTINGS WITH REPUBLIC "X-TRU-TAPE" OR EQUAL PER MANUFACTURER'S RECOMMENDATIONS.		H. FIELD-APPLIED JACKETS.		C. UNDERGROUND DIRECT-BURIED JACKET	
						I. TAPES.		2.09 TAPES:	
						J. SECUREMENTS.		A. ASJ	
						K. CORNER ANGLES.		B. FSK	
								C. PVC	
								D. ALUMINUM-FOIL	
								E. PVC	
								2.10 SECUREMENTS:	
								A. ALUMINUM BANDS	
								B. INSULATION PINS AND HANGERS	
								C. NONMETAL, ADHESIVELY ATTACHED, PERFORATED-BASE INSULATION HANGERS	
								D. SELF-STICKING BASE INSULATION HANGERS	
								E. INSULATION-RETAINING WASHERS	
								F. NONMETAL INSULATION-RETAINING WASHERS	
								G. STAPLES	
								H. WIRE	
								2.11 CORNER ANGLES:	
								A. PVC CORNER ANGLES	
								B. ALUMINUM CORNER ANGLES	
								PART 3 EXECUTION	
								3.01 PREPARATION	
								A. SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION.	
								B. COORDINATE INSULATION INSTALLATION WITH THE TRADE INSTALLING HEAT TRACING. COMPLY WITH REQUIREMENTS FOR HEAT TRACING THAT APPLY TO INSULATION.	
								C. MIX INSULATING CEMENTS WITH CLEAN POTABLE WATER; IF INSULATING CEMENTS ARE TO BE IN CONTACT WITH STAINLESS-STEEL SURFACES, USE DEMINERALIZED WATER.	
								3.02 GENERAL INSTALLATION REQUIREMENTS:	
								A. INSTALL INSULATION MATERIALS, ACCESSORIES AND FINISHES WITH SMOOTH, STRAIGHT, AND EVEN SURFACES; FREE OF VOIDS THROUGHOUT THE LENGTH OF EQUIPMENT AND PIPING INCLUDING FITTINGS, VALVES, AND SPECIALTIES.	
								INSTALL INSULATION MATERIALS, FORMS, VAPOR BARRIERS OR RETARDERS, JACKETS, AND THICKNESS REQUIRED FOR EACH ITEM OF EQUIPMENT AND PIPE SYSTEM.	
								INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE.	
								END OF SECTION	