



Forsyth County Procurement

Greg Bridges, Procurement Agent III

May 18, 2020

ADDENDUM #1

BID No. 20-61-1620

For: Providing all materials, equipment and labor for Renovation of 426 Canton Highway Building

This addendum supersedes and supplements all portions of the bidding documents and becomes part of the contract documents for the above-referenced project.

Where any item called for in the specifications or indicated on the drawings is supplemented hereby, the original requirements shall remain in effect.

Where any original item is amended, voided or superseded hereby, the provision of such item not so specifically amended, voided or superseded shall remain in effect.

Revised Bid Schedule and Plan Revision Addendum A:

Revised Bid Schedule:

Alternate Deduct #2 added and revised Bid Schedule attached

ALTERNATE DEDUCT #2 – price to exclude security cameras and security camera server, to be furnished by owner,

DEDUCT < \$ _____ Lump Sum

Plan Revision Addendum A:

Revised Plans attached

BID SCHEDULE 20-61-1620

It is at the discretion of the owner if Alternates are used as a basis of award.

FOR: Providing all materials, equipment and labor for the Renovation of 426 Canton Highway Building

Bid prices shall include all labor, materials, bailing, shoring, removal, overhead (Direct and Indirect), profit, insurance, bonds, and other costs, to cover finished Work of the several kinds called for.

Bidder agrees this Bid shall be good and may not be withdrawn for a period of 90 calendar days after scheduled closing time for receiving bids.

Bidder accepts terms and conditions contained in Bid Document Package including, without limitation, those dealing with Owner's time for accepting Bid and disposition of Bid Security.

Bidder has examined site and locality where the Work is to be performed and legal requirements (federal, state, and local laws, ordinances, rules, and regulations) and conditions affecting Work cost, difficulty, progress, or performance and has made independent investigations as Bidder deems necessary.

Bidder has given Owner written notice concerning conflicts, errors, or discrepancies discovered in Bid Document Package and written resolution by Owner is acceptable to Bidder.

All work is to be completed as specified in Bid Specifications.

Total lump sum amount to complete project: \$ _____

DEDUCTIVE ALTERNATE:

ALTERNATE DEDUCT #1 - price to substitute new millwork upper cabinets with stock cabinets 36"hx36w painted PT-2, **DEDUCT < \$ _____ Lump Sum**

ALTERNATE DEDUCT #2 – price to exclude security cameras and security camera server, to be furnished by owner, **DEDUCT < \$ _____ Lump Sum**

ADDITIVE ALTERNATES:

ALTERNATE ADD #1 - price to remove existing breakroom countertop and cabinets and replace with new per elevation, **ADD \$ _____ Lump Sum**

ALTERNATE ADD #2 - price to remove existing carpet and replace with LVP-1, **ADD \$ _____ Lump Sum**

ALTERNATE ADD #3 - price to remove existing ceiling tiles and lighting and replace with new 2x2 act-1 and new 2x2 led lights, **ADD \$ _____ Lump Sum**

Warranty on Labor: _____

Authorized Signature: _____

Company Name: _____

Printed Name and Title: _____

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C:\Users\wregan\Documents\20007 FOCO 426 Canton Hwy Reno_ARCH-RVT19_wregan@jericho-design.com.rvt

FORSYTH COUNTY INSPECTORS/RECYCLE RENOVATION

PERMIT SET



102 Mary Alice Park Road, Suite 103
Cumming, GA 30040



PROJECT DIRECTORY			ABBREVIATIONS		SYMBOLS		DRAWING INDEX		
OWNER:	FORSYTH COUNTY BOARD OF COMMISSIONERS 110 EAST MAIN STREET CUMMING, GA 30040	JAMES M. WELDON TEL: 404-276-3622 JMWELDON@FORSYTHCO.COM	@ ACT A.F.F. ALUM. B/ BD. BLDG. BR BRG CFMF C.L. CLR C.J. CMU COORD. COL CONC. CONT. Ø DWG. D.S. EA. ELEV. ELEC. E.S. EXP. EXT. E.W.C. F.D. FEC F.F. FL. F.O. F.O.F. F.O.M. FOIC	AT ACOUSTICAL CEILING TILE ABOVE FINISHED FLOOR ALUMINUM BOTTOM OF BOARD BUILDING BRICK BEARING COLF FORMED METAL FRAMING CENTER LINE CLEAR CONTROL JOINT CONCRETE MASONRY UNIT COORDINATE COLUMN CONCRETE CONTINUOUS DIAMETER DRAWING DOWN SPOUT EACH ELEVATION ELECTRIC EQUIPMENT SUPPLIER EXPANSION EXTERIOR ELECTRIC WATER COOLER FLOOR DRAIN FIRE EXTINGUISHER CABINET FINISHED FLOOR FLOOR FACE OF FACE OF FINISH FACE OF MASONRY FURNISHED BY OWNER INSTALLED BY CONTRACTOR FIRE RETARDANT FRANCHISEE FIBERGLASS REINFORCED POLYESTER	G.C. GYP. BD. H.M. HT I.B.C. JT. L.L. MFR. MAT. MAX. MECH. MIN. MTL. NC. N.I.C. N.T.E. N.T.S. O.D. OPP. PL. PLYWD. PR. P.T. O.C. R.D. S.B.O. SCH. SIM. STL. STRUCT. T/ T&G TYP. U.N.O. VERT. VWC W W/ WD. W.W.F.	GENERAL CONTRACTOR GYPSUM BOARD HOLLOW METAL HEIGHT INSTALLED BY CONTRACTOR JOINT LANDLORD MANUFACTURER MATERIAL MAXIMUM MECHANICAL MINIMUM METAL NON-COMBUSTIBLE NOT IN CONTRACT NOT TO EXCEED NOT TO SCALE OVERFLOW DRAIN OPPOSITE PLASTIC LAMINATE PLYWOOD PAIR PRESSURE TREATED ON CENTER ROOF DRAIN SUPPLIED BY OWNER SCHEDULE SIMILAR STEEL STRUCTURAL TOP OF TONGUE AND GROOVE TYPICAL UNLESS NOTED OTHERWISE VERTICAL VINYL WALL COVERING WIDE WITH WOOD WELDED WIRE FABRIC	1 A-3.1 ELEVATION MARK SECTION MARK 'SIM' - SIMILAR 'OH' - OPPOSITE HAND ENLARGED PLAN / DETAIL MARK 001 DOOR REFERENCE NUMBER SEE SHEET A-600 OFFICE 101 ROOM NAME & NUMBER A COLUMN AND GRID NUMBER SF-1 WINDOW REFERENCE NUMBER SEE SHEET A-601 SOLID GROUT WOOD DIMENSIONAL SHEATHING PLASTER, GYPSUM WALLBOARD BATT INSULATION EARTH GRANULAR CONCRETE BRICK STEEL, IRON WOOD MORTAR NET RIGID INSULATION	SHEET NO.	SHEET NAME
					01 COVER				
			CS-1.01		COVER SHEET				
			02 LIFE SAFETY						
			LS-1.01		LIFE SAFETY				
			03 GENERAL						
			G-1.01		ADA REGULATORY DETAILS & DIAGRAMS				
			G-3.01		SPECIFICATIONS				
			G-3.02		SPECIFICATIONS				
			07b ARCHITECTURAL						
			D-1.01		DEMOLITION PLAN				
07c ARCHITECTURAL									
A-1.01		FINISH & REFERENCE PLAN - LEVEL 1							
A-2.01		REFLECTED CEILING PLAN - LEVEL 1							
A-4.01		INTERIOR ELEVATIONS							
A-5.01		FINISH SCHEDULE & DETAILS							
A-6.01		FURNITURE & EQUIPMENT PLANS							
A-7.01		DOOR SCHEDULE							
08 MECHANICAL									
MP-0.00		LEGENDS, SCHEDULES, DETAILS & SPECS- HVAC & PLUMBING							
MP-0.01		SPECIFICATIONS - HVAC & PLUMBING							
MP-0.02		DETAILS - HVAC & PLUMBING							
MP-1.01		FLOOR PLANS - HVAC & PLUMBING							
09 ELECTRICAL									
E-0.01		ELECTRICAL NOTES AND LEGEND							
E-0.02		FLOOR PLAN - ELECTRICAL DEMOLITION							
E-1.01		FLOOR PLAN - ELECTRICAL							
E-2.01		FLOOR PLAN - LIGHTING							
E-3.01		ELECTRICAL PANEL SCHEDULES							
10 LOW VOLTAGE									
LV-0.00		LOW VOLTAGE LEGEND							
LV-0.01		DETAILS							
LV-0.02		DETAILS							
LV-1.01		LEVEL 01 - FLOOR PLAN							
LV-2.01		ENLARGED TELECOM ROOMS							
VICINITY MAP			GENERAL NOTES						
			1. THESE DRAWINGS ARE THE PROPERTY OF JERICHO DESIGN GROUP, LLC AND SHALL NOT BE REPRODUCED OR COPIED (PHYSICALLY AND/OR DIGITALLY) IN PART OF WHOLE. THEY ARE TO BE USED FOR THIS PROJECT ONLY AND ARE NOT TO BE USED ON ANY OTHER PROJECT. 2. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO AGREE AND BE MUTUALLY EXPLANATORY. THEY SHALL BE ACCEPTED/USED AS A WHOLE; NOT SEPARATELY. SHOULD ANY ITEMS BE OMITTED FROM THE DRAWINGS AND BE HEREIN SPECIFIED, OR VICE VERSA, IT SHALL BE EXECUTED THE SAME AS IF SHOWN AND COMBINED IN BOTH. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY ENTIRE SET TO EACH SUBCONTRACTOR. 3. THE CONTRACTOR IS TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AFTER FULL REVIEW OF CONTRACT DOCUMENTS TO INCLUDE BUT NOT LIMITED TO ERRORS, OMISSIONS, INCONSISTENCIES, DISCREPANCIES, AND CONFLICTS WITH THE DRAWINGS/SPECIFICATIONS OR AS RELATED TO FIELD CONDITIONS. CONTRACTOR TO CONTACT ARCHITECT IMMEDIATELY TO DISCUSS A RESOLUTION. 4. DO NOT SCALE THE DRAWINGS UNDER ANY CONDITION. 5. WORK PERFORMED SHALL BE IN ACCORDANCE TO ALL FEDERAL, STATE AND LOCAL BUILDING CODE REQUIREMENTS PER INDUSTRY STANDARDS. ALL REQUIRED PERMITS AND FEES ASSOCIATED ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR NECESSARY FOR START AND COMPLETION OF THE PROJECT. COPIES OF INSPECTIONS AND PERMITS SHALL BE FURNISHED TO OWNER AT REQUEST AND/OR AT PROJECT CLOSEOUT. 6. CONTRACTOR TO TAKE PRECAUTIONS IN PROTECTING THE WORK DURING CONSTRUCTION. ANY DAMAGE TO BE RESTORED TO ORIGINAL CONSTRUCTION BY THE CONTRACTOR. PATCH AND REPAIR ALL ITEMS DAMAGED OR ALTERED DURING CONSTRUCTION BY THE CONTRACTOR. ALL PATCHES SHALL BLEND WITH ADJACENT MATERIAL, COLOR, FINISH, AND TEXTURE. ALL EXISTING WORK FURNISHINGS, EQUIPMENT OR MATERIAL TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. 7. REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED IN WRITING TO THE ARCHITECT FOR CONSIDERATION ONLY IF IMPACT TO SCHEDULE, COST CHANGE OR QUALITY OF PRODUCT. ACCEPTANCE BY ARCHITECT DOES NOT IDENTIFY PRODUCT TO BE OF BETTER QUALITY THAN SPECIFIED PRODUCT. 8. SEAL ALL EXTERIOR PENETRATIONS AND VOIDS ON EXTERIOR BUILDING ENVELOPE. 9. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND CONTRACT DOCUMENTS PRIOR TO ANY CONSTRUCTION ACTIVITY IN AREA OF CONCERN. 10. THE LOCATION OF THE EXISTING UTILITIES & STRUCTURES SHOWN HEREIN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE & ACTUAL LOCATIONS OF ALL, SHOWN OR NOT SHOWN. ANY DAMAGES RESULTING BY CONTRACTORS' ACTIVITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 11. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING & SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD. 12. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS & OTHER FASTENING DEVICES TO AVOID GALVANIC CORROSION. 13. PROVIDE EXPANSION AND CONTROL JOINTS IN ALL WORK AS PER PRODUCT MANUFACTURER'S STANDARDS, OR SPECIFICATIONS, UNLESS NOTED OTHERWISE. 14. ALL DIMENSIONS ARE WITNESSED TO THE OUTSIDE FACE OF MASONRY, FACE OF STUD, CENTER OF COLUMN, TOP OF STRUCTURAL CONCRETE SLAB OR ROUGH WINDOW OPENING UNLESS NOTED OTHERWISE. 15. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED TO RELATED DRAWINGS AND DETAILS. 16. INTERIOR PARTITION MOVEMENT CONTROL - VERTICAL CONTROL JOINTS FOR ANY WALL LENGTH ARE TO OCCUR AT NOT MORE THAN 30'-0" O.C. IN THE HORIZONTAL DIRECTION, UNLESS NOTED OTHERWISE. 17. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION. 18. THE PROJECT AND ALL INTERIOR SPACES SHALL BE COMPLETELY OPERATIONAL UPON TURNOVER OF SPACE. THESE ARE TO INCLUDE SYSTEMS NOT LIMITED TO ARCHITECTURAL, INTERIORS, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS. 19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE LOCATIONS AND/OR ELEVATIONS OF FLOOR DRAINS, REGISTERS, GRILLES, LOUVERS, DUCTS, UNIT HEATERS, PANELS, ETC. WITH STRUCTURAL MECHANICAL AND ELECTRICAL CONTRACTORS. 20. BOLTING OF WOOD TO STRUCTURAL MEMBERS SHALL BE WITH A MINIMUM OF 1/2" BOLTS X 4'-0" O.C. UNLESS NOTED OTHERWISE ON CONSTRUCTION DOCUMENTS AND/OR SPECIFICATIONS. 21. CONTRACTOR SHALL COMPLY WITH STATE BUILDING CODES IN FIRESTOPPING ALL FLOOR PENETRATIONS. 22. METAL STUDS AND HANGER WIRE ARE NOT TO BE ATTACHED DIRECTLY TO FLOOR/CEILING MTL DECKING. ATTACH TO STRUCTURAL STEEL, BAR JOIST, MISCELLANEOUS STEEL OR CONCRETE STRUCTURE ONLY. IF THE TOP TRACK OF THE METAL STUDS AND HANGER WIRE MUST BE CONNECTED TO METAL DECK, SEE STRUCTURAL NOTES FOR ATTACHMENT CRITERIA. 23. GENERAL: ALL WOOD FRAMING/BLOCKING IN TYPE II CONSTRUCTION SHALL BE FIRE RETARDANT TREATED WOOD IN ACCORDANCE WITH 2012 IBC SECTION 603. 24. IF EVIDENCE SUGGESTS THE PRESENCE OF MOLD ON, BEHIND OR WITHIN SURFACES OR MATERIALS (I.E., INCLUDING, BUT NOT LIMITED TO EXISTING GYPSUM BOARD, EXISTING FLOOR FINISHES AND/OR EXISTING CEILING TILE), IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AREA, REMOVE PORTION OF MATERIAL WITH MOLD AND PATCH/REPAIR TO LIKE NEW CONDITION. 25. ANY ALTERATION OR ANY INSTALLATION OF EQUIPMENT SHALL MEET AS NEARLY AS PRACTICABLE THE REQUIREMENTS FOR NEW CONSTRUCTION IN ACCORDANCE WITH NFPA 101: 4.6.7, 2012 EDITION. 26. ALL DEMOLITION WORK SHALL COMPLY WITH THE REQUIREMENT OF NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, 2012 EDITION.						
KEY PLAN			ALTERNATE ADD SCHEDULE						
			SCHEDULE OF ALTERNATE ADDITIONS: ALTERNATE DEDUCT #1 - PRICE TO SUBSTITUTE NEW MILLWORK UPPER CABINETS WITH STOCK CABINETS 36"HX36W PAINTED PT-2 ALTERNATE ADD #1 - PRICE TO REMOVE EXISTING BREAKROOM COUNTERTOP AND CABINETS AND REPLACE WITH NEW PER ELEVATION ALTERNATE ADD #2 - PRICE TO REMOVE EXISTING CARPET AND REPLACE WITH LVP-1 ALTERNATE ADD #3 - PRICE TO REMOVE EXISTING CEILING TILES AND LIGHTING AND REPLACE WITH NEW 2X2 ACT-1 AND NEW 2X2 LED LIGHTS						

FORSYTH COUNTY
INSPECTORS/RECYCLE
RENOVATION

FORSYTH COUNTY

426 CANTON HWY
CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
	04/02/2020	PERMIT SET

Drawn By
WR

Checked By
JDG

Date
04/02/2020

Job No.
20007

Sheet Title
COVER SHEET

Sheet No.

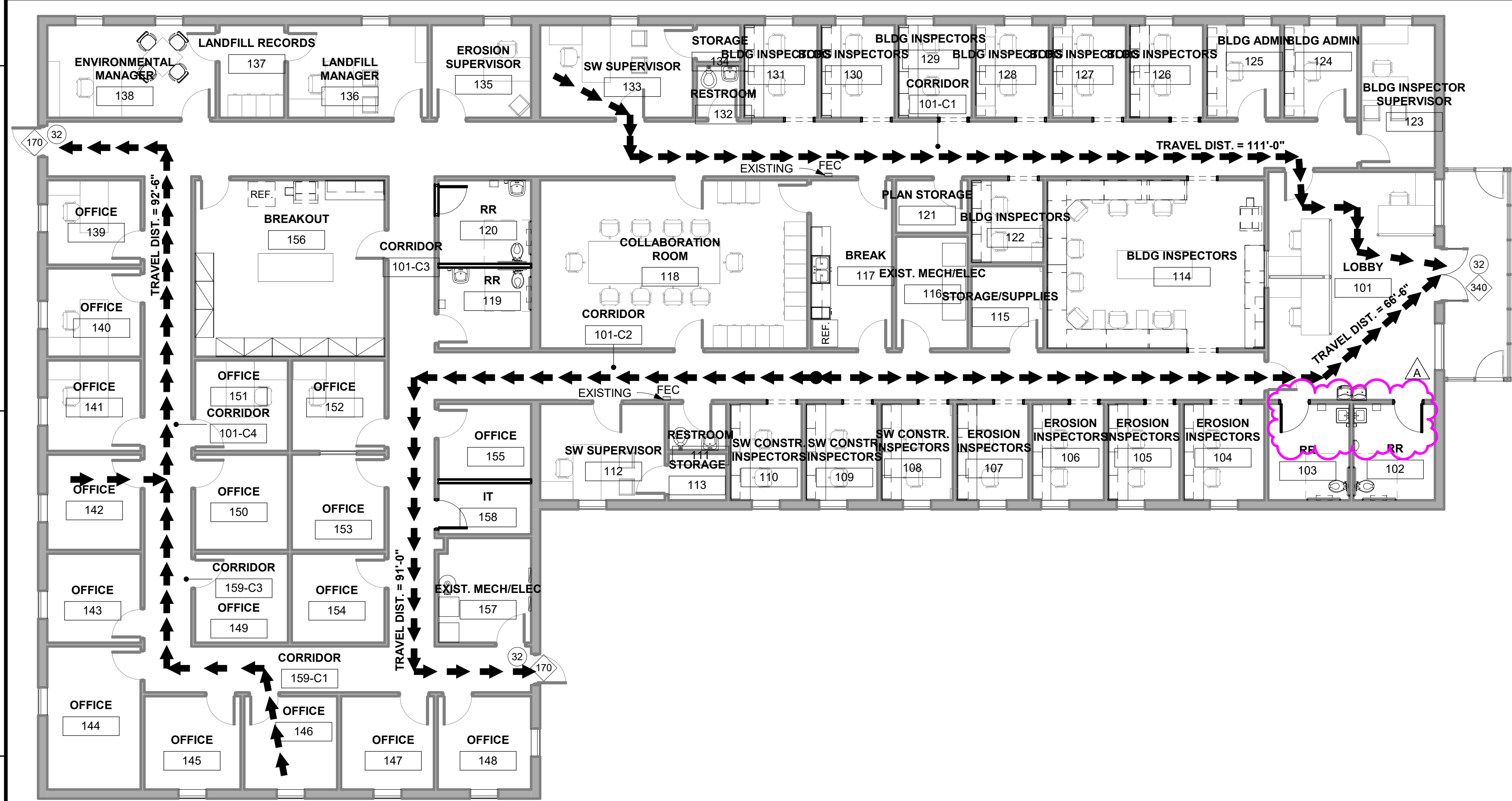
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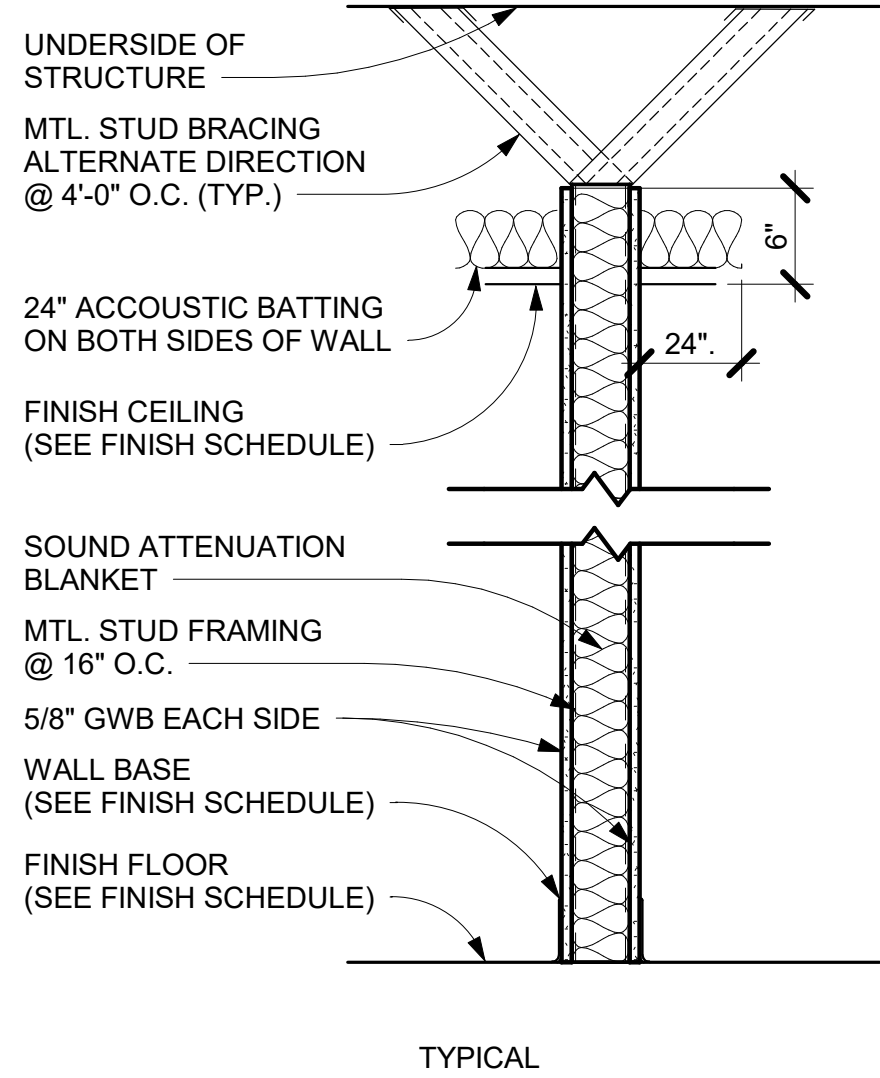
BUILDING DATA		APPLICABLE CODES	
OCCUPANCY CLASSIFICATION: BUSINESS (NFPA CHPT. 3) GROUP B (IBC CHPT 6) LIMITED SCOPE FOCUSED ON INTERIOR IMPROVEMENTS	INTERIOR WALL AND CEILING FINISH REQUIREMENTS (IBC TABLE 803.9): EXIT ENCLOSURES AND EXIT PASSAGEWAYS B CORRIDORS C ROOMS AND ENCLOSED SPACES C	2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (2020)	2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA AMENDMENTS (2020)
TYPE OF CONSTRUCTION (IBC): EXISTING BLDG. TYPE III B, UNSPRINKLERED, UNPROTECTED	OCCUPANCY SEPARATIONS (IBC TABLE 508.3.3): B TO S-1 = 0 HRS B TO S-2 = 1 HRS S-2 TO S-1 = 1 HRS	2018 INTERNATIONAL FIRE CODE NO GEORGIA AMENDMENTS	2018 NFPA 101, LIFE SAFETY CODE WITH GEORGIA AMENDMENTS (2020)
BUILDING AREAS (IBC): EXISTING BUILDING = 9692 GSF		2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS (2020)	RULES AND REGULATIONS OF SAFETY FIRE COMMISSIONER FOR STATE MINIMUM FIRE SAFETY STANDARDS, CHAPTER 120-3-3 JANUARY 1, 2020 (GEORGIA SAFETY FIRE LAW)
BUILDING OCCUPANCY (NFPA): OCCUPANT LOAD FACTOR FOR BUSINESS: 150 GROSS OCCUPANTS = 64 PERSONS		2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS (2020)	GEORGIA STATE HANDICAPPED ACCESSIBILITY LAW 120-3-20A / 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
		2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMENDMENTS (2020)	
		2017 NATIONAL ELECTRICAL CODE (NO GEORGIA AMENDMENTS)	



NOTE: GRAYED WALLS INDICATE EXISTING TO REMAIN

1 LEVEL 1 - LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"



MTL. STUD PARTITION TO 6" ABOVE CEILING				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
A2	2 1/2" MTL. STUD	N/A	N/A	48-55
A3	3 5/8" MTL. STUD	N/A	N/A	48-55
A6	6" MTL. STUD	N/A	N/A	48-55

2 WALL TYPE A

SCALE: 1" = 1'-0"

LIFE SAFETY PLAN LEGEND	
SEPARATION PER IBC CHAPTER 5 NON-RATED PARTITION EXTINGUISHER LOCATION PER NFPA 10 FEC FIRE EXTINGUISHER IN RECESSED CABINET FE BRACKET MOUNTED FIRE EXTINGUISHER CAPACITY PER LSC 7.3.3.1 STAIRS = 0.3"/PERSON DOORS = 0.2"/PERSON 32"W DOOR = 30" CLR. = 150 CAPACITY 36"W DOOR = 34" CLR. = 170 CAPACITY 42"W DOOR = 40" CLR. = 200 CAPACITY 48"W DOOR = 46" CLR. = 230 CAPACITY 68"W DOOR = 64" CLR. = 320 CAPACITY 72"W DOOR = 68" CLR. = 340 CAPACITY 96"W DOOR = 92" CLR. = 460 CAPACITY DOORS PER IBC 715.4	OCCUPANCY PER LSC 7.3.1.2 PER GEORGIA AMENDMENTS TO THE IBC AREA SF / OCCUPANT LOAD FACTOR = OCCUPANCY COUNT (REFER TO PLANS FOR ROOM OCCUPANCY CALCULATIONS) EXIT SIGNS PER IBC 1011 EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION) ALLOWABLE DISTANCE PER LSC 12.2.6 TRAVEL DISTANCE LIMIT - MAX. 200 FT. SPRINKLERED COMMON PATH LIMIT - MAX. 75 FT. SPRINKLERED DEAD END LIMIT - MAX.25 FT. SPRINKLERED PATH OF EGRESS WITHIN BUILDING TRAVEL DISTANCE & COMMON PATH (SEE NOTES ON PLANS) NUMBER OF EXITS PER IBC 1015 & LSC 7.4.1.2 00 ACTUAL EGRESS COUNT 00 EGRESS CAPACITY OF EXIT
GENERAL PARTITION NOTES	
- STUD DESIGN CRITERIA: ALL INTERIOR, NON-LOAD BEARING METAL STUDS SHALL BE 20 GAUGE (MIN.) UNLESS OTHERWISE NOTED. PROVIDE 5 PSF MIN. APPLIED LATERAL LOAD, L/240 MAX. DEFLECTION. - ALL FIRE RATED PARTITIONS MUST EXTEND AND SEAL TO STRUCTURE ABOVE. - INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS. - PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE NOTED IN ROOM FINISH SCHEDULE TO RECEIVE CERAMIC OR PORCELAIN TILE FINISH INCLUDING RESTROOMS. - PROVIDE 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED. - PROVIDE 5/8" TYPE X GYPSUM BOARD AT FIRE RATED PARTITIONS. - METAL STUD GAUGE (IF NOTED) AND UL TEST NUMBERS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED. - PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS. - INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT / MOUNTING OF WALL HUNG ITEMS, ACCESSORIES, FIXTURES, FURNITURE OR EQUIPMENT DESCRIBED IN THE DOCUMENTS. PROVIDE BLOCKING TO MATCH THE OVERALL HEIGHT AND WIDTH OF ALL WALL MOUNTED MONITORS AND TVS. - WHEN INSTALLING GYPSUM BOARD, CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE MOST CURRENT EDITION OF THE GYPSUM ASSOCIATION "GA-600" FIRE RESISTANCE DESIGN MANUAL AND THE MOST CURRENT EDITION OF THE UL FIRE RESISTANCE DIRECTORY. - PARTITIONS THAT ARE REQUIRED TO EXTEND TO THE DECK ABOVE SHALL HAVE THE GYPSUM BOARD CUT TO FIT WITHIN A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK ABOVE. GYPSUM BOARD SHALL BE CONTINUOUSLY SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT. - GYPSUM BOARD SHALL BE CUT SO THAT THE CLEARANCE BETWEEN METALLIC ELECTRICAL OUTLET BOXES AND THE GYPSUM BOARD DOES NOT EXCEED 1/8". - THE BOTTOM OF THE GYPSUM BOARD AT INTERIOR PARTITIONS SHALL BE 1/4" MINIMUM AND 1/2" MAXIMUM ABOVE THE CONCRETE FLOOR SLAB AND SHALL BE SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT. - REFER TO THE LIFE SAFETY FLOOR PLANS FOR EXTENT OF FIRE WALL RATINGS. - ALL ELEMENTS OF ACOUSTIC RATED PARTITIONS SHALL EXTEND TO ROOF STRUCTURE OR FLOOR DECK ABOVE. - PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO THE MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION. - WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH. - REFER TO INTERIOR FINISH SCHEDULE FOR ALL WALL FINISHES. - ALL FIRE AND/OR SMOKE BARRIERS OR WALLS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE A DECORATIVE CEILING AND OR IN CONCEALED SPACES WITH LETTERS A MINIMUM OF TWO (2) INCHES HIGH ON A CONTRASTING BACKGROUND SPACED A MAXIMUM OF TWELVE (12) FEET ON CENTER WITH A MINIMUM OF ONE PER WALL OR BARRIER IN ACCORDANCE WITH MODIFICATIONS OF THE 2006 STANDARD FIRE PREVENTION CODE, 120-3-3, CHAPTER 5 OF THE RULES AND REGULATIONS OF THE FIRE SAFETY COMMISSIONER. THE HOURLY RATING SHALL BE INCLUDED ON ALL RATED BARRIERS AND WALLS. SUGGESTED WORDING (--) HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS.	



FORSYTH COUNTY
INSPECTORS/RECYCLE
RENOVATION
FORSYTH COUNTY

426 CANTON HWY
CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
	04/02/2020	PERMIT SET
A	05/08/2020	ADDENDUM A

Drawn By WR	Checked By JDG
Date 04/02/2020	Job No. 20007

Sheet Title
LIFE SAFETY

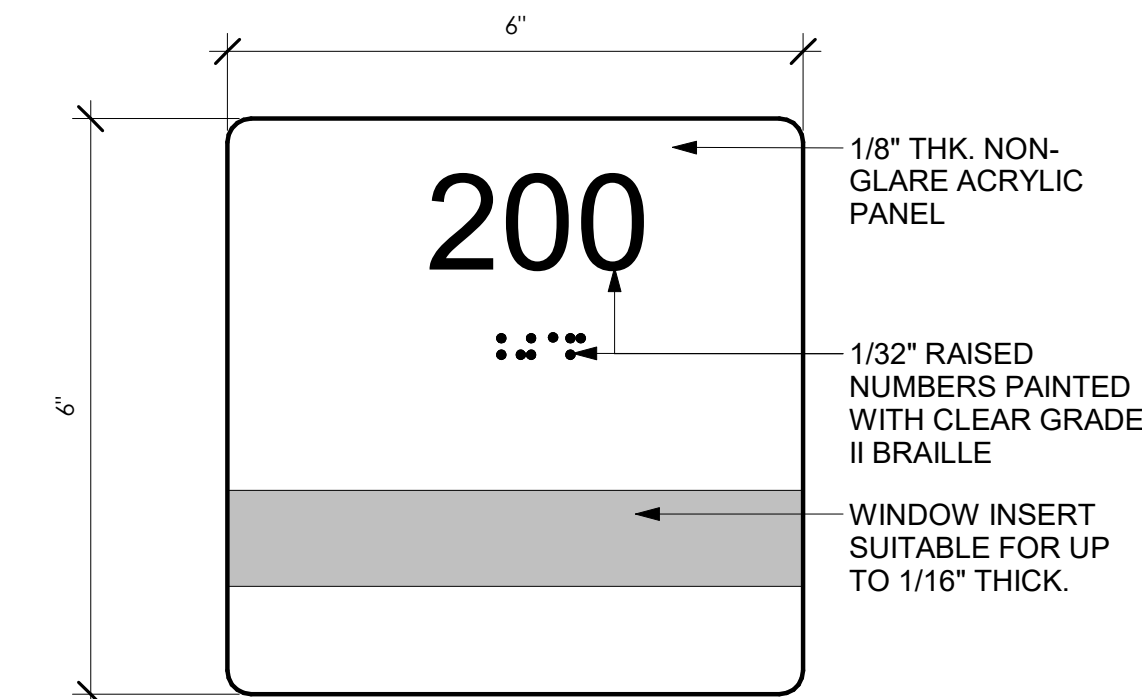
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BASIS OF DESIGN
ADA CENTRAL.COM
ADA 6" x 6" SQUARE WINDOW
INSERT SIGN
COLOR: MODERN OLIVE WITH
WHITE LETTERING

NOTE: ATTACH SIGNAGE W/
VHB FOAM TAPE AND
SILICONE ADHESIVE AT
INTERIOR LOCATIONS. USE
MFR RECOMMENDED
ADHESIVE AT OUTDOOR
LOCATIONS.

1 ROOM SIGNAGE

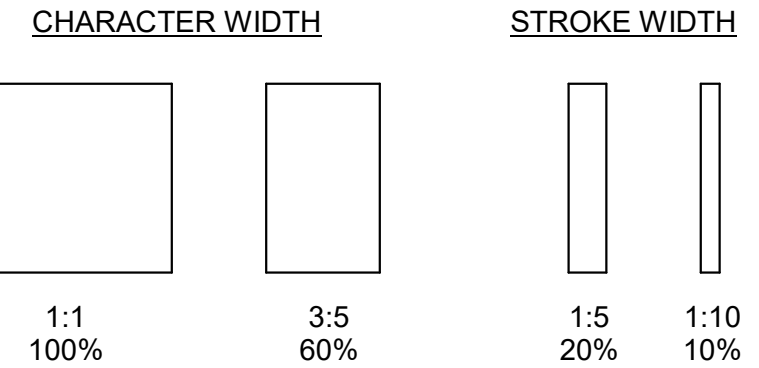
SCALE: 6" = 1'-0"

- CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE.
- CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9mm) AND A MAXIMUM OF 2" (51mm) HIGH.
- FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
- PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.

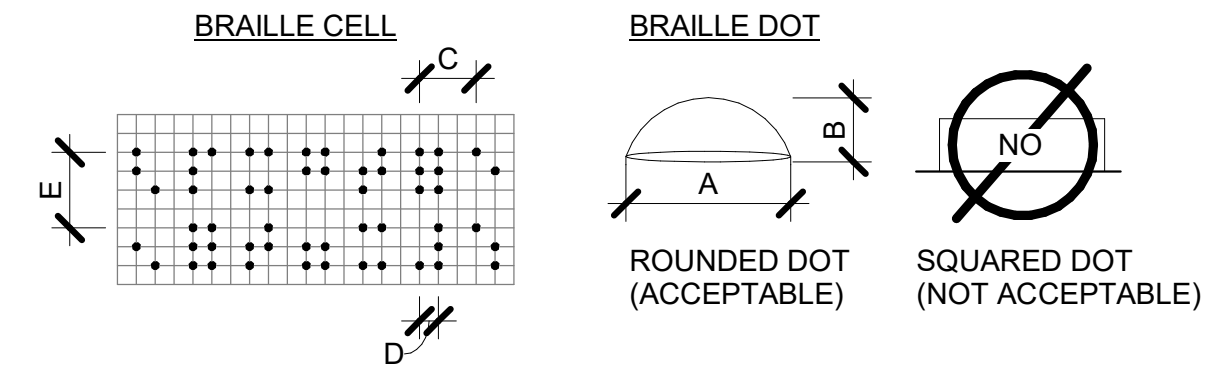
ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I, X AND O AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT SMALLER THAN 1 INCH, NOR NARROWER THAN THE 3:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

5. BRAILLE: GRADE II BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. SEE CHART FOR DIMENSIONS.

TEMPLATE FOR CHECKING CHARACTER AND
STROKE WIDTH TO HEIGHT PROPORTIONS

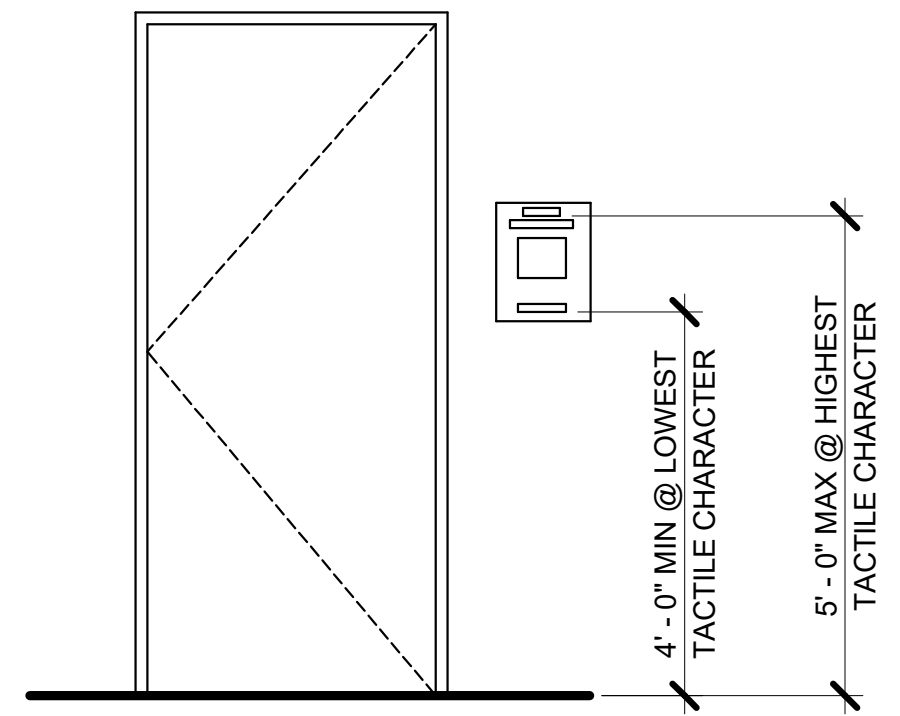


MEASUREMENT RANGE	MIN - MAX
A: DOT BASE DIAMETER	0.059" - 0.063"
B: DOT HEIGHT	0.025" - 0.037"
C: DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	0.241" - 0.300"
D: DISTANCE BETWEEN DOTS IN THE SAME CELL	0.090" - 0.100"
E: DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395" - 0.400"



B1 BRAILLE REQUIREMENTS

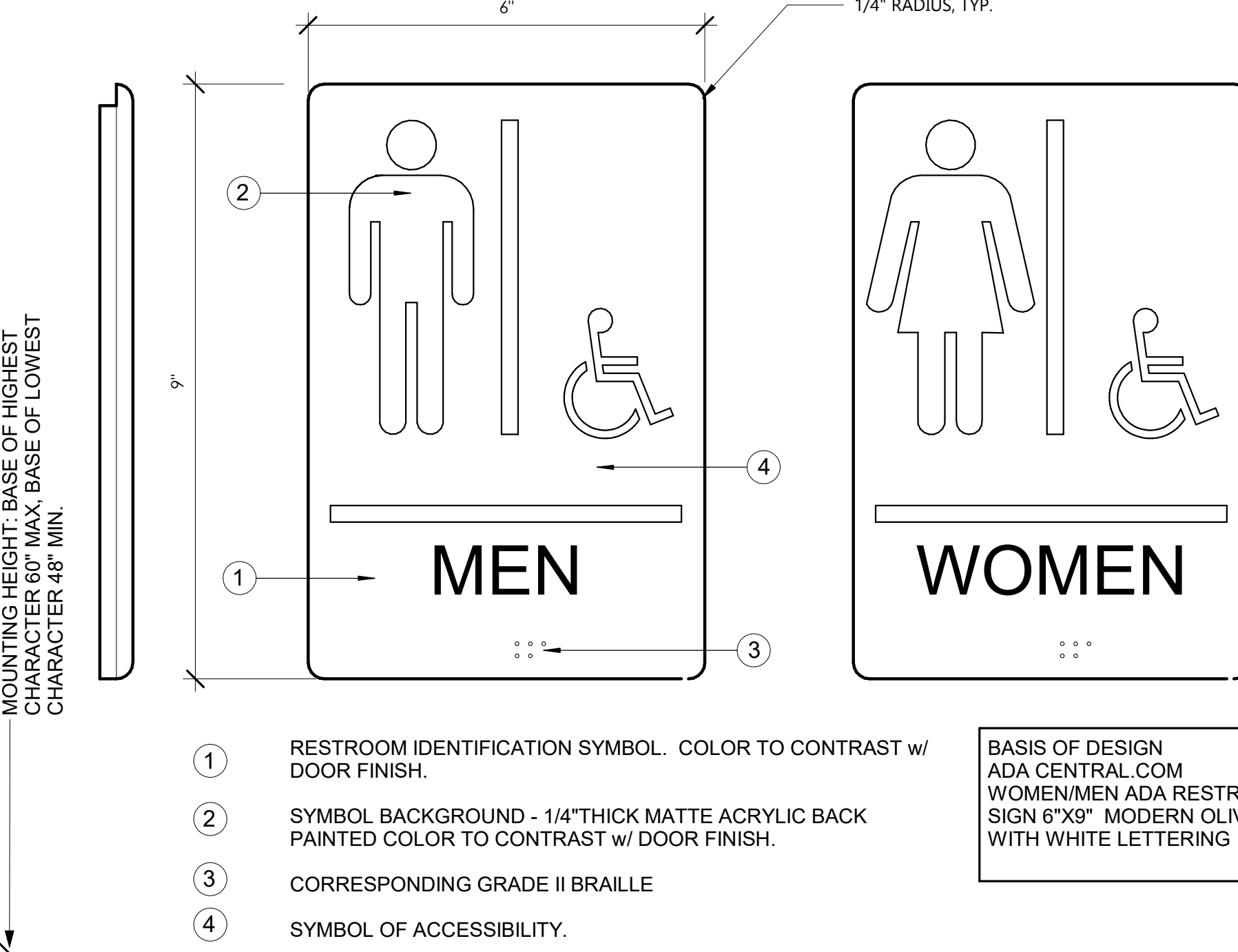
SCALE: 12" = 1'-0"



NOTE: LOCATE SIGN ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18"x18" MIN, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHEN MOUNTED, RAISED CHARACTER BASE LINES MUST FALL BETWEEN 48" AND 60" AFF

D3 SIGNAGE MOUNTING REQMTS

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

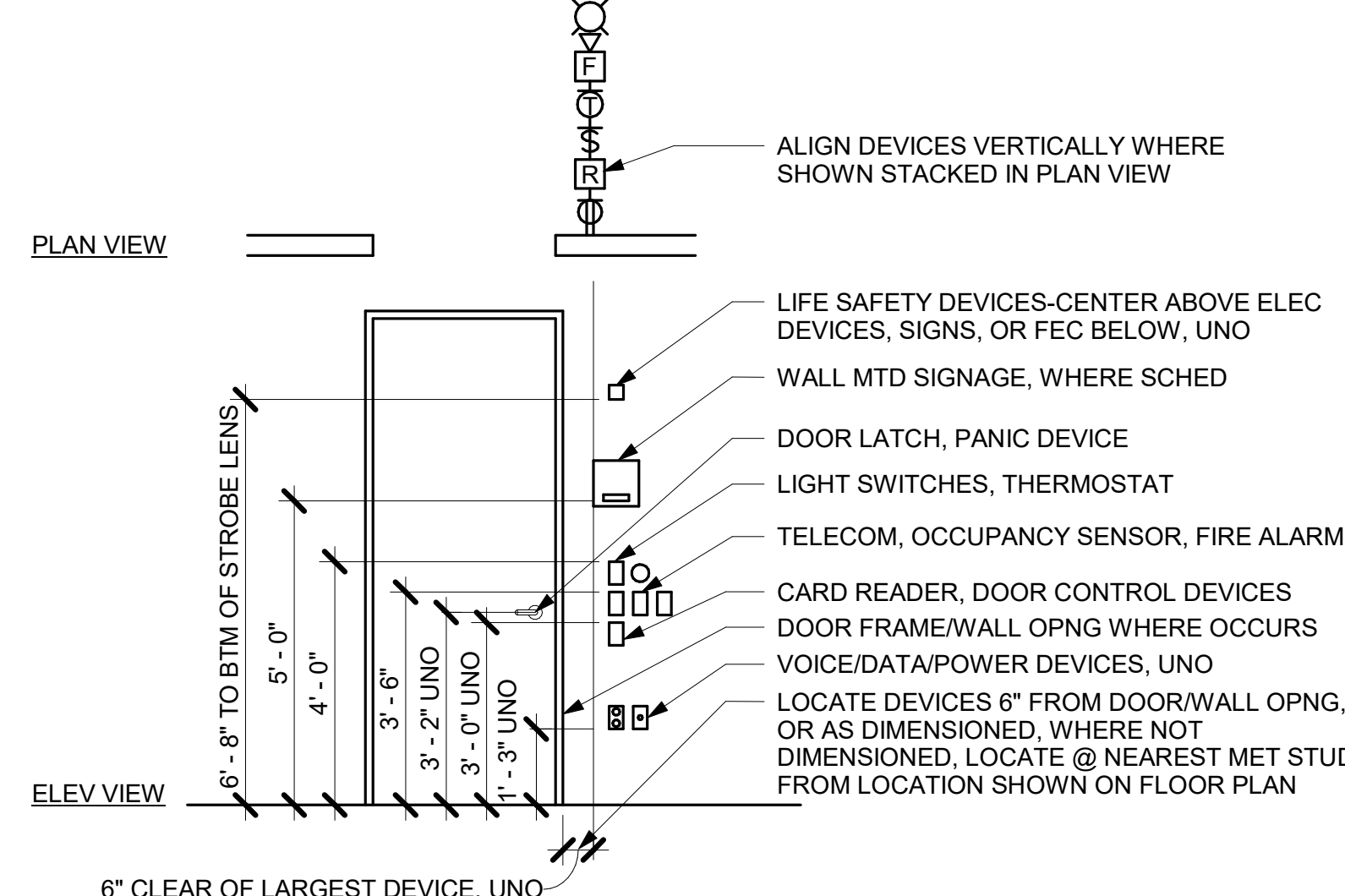


- RESTROOM IDENTIFICATION SYMBOL. COLOR TO CONTRAST w/ DOOR FINISH.
- SYMBOL BACKGROUND - 1/4" THICK MATTE ACRYLIC BACK PAINTED COLOR TO CONTRAST w/ DOOR FINISH.
- CORRESPONDING GRADE II BRAILLE
- SYMBOL OF ACCESSIBILITY.

BASIS OF DESIGN
ADA CENTRAL.COM
WOMEN/MEN ADA RESTROOM
SIGN 6"x9" MODERN OLIVE
WITH WHITE LETTERING

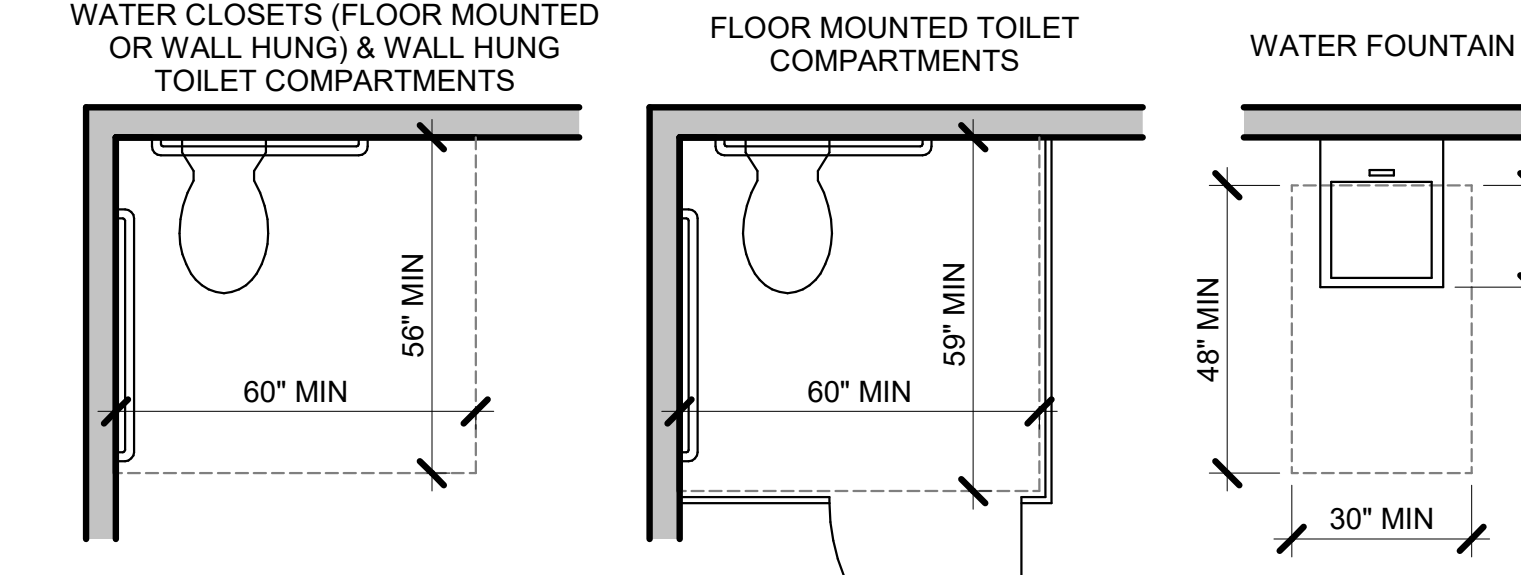
2 RESTROOM SIGNAGE

SCALE: 6" = 1'-0"



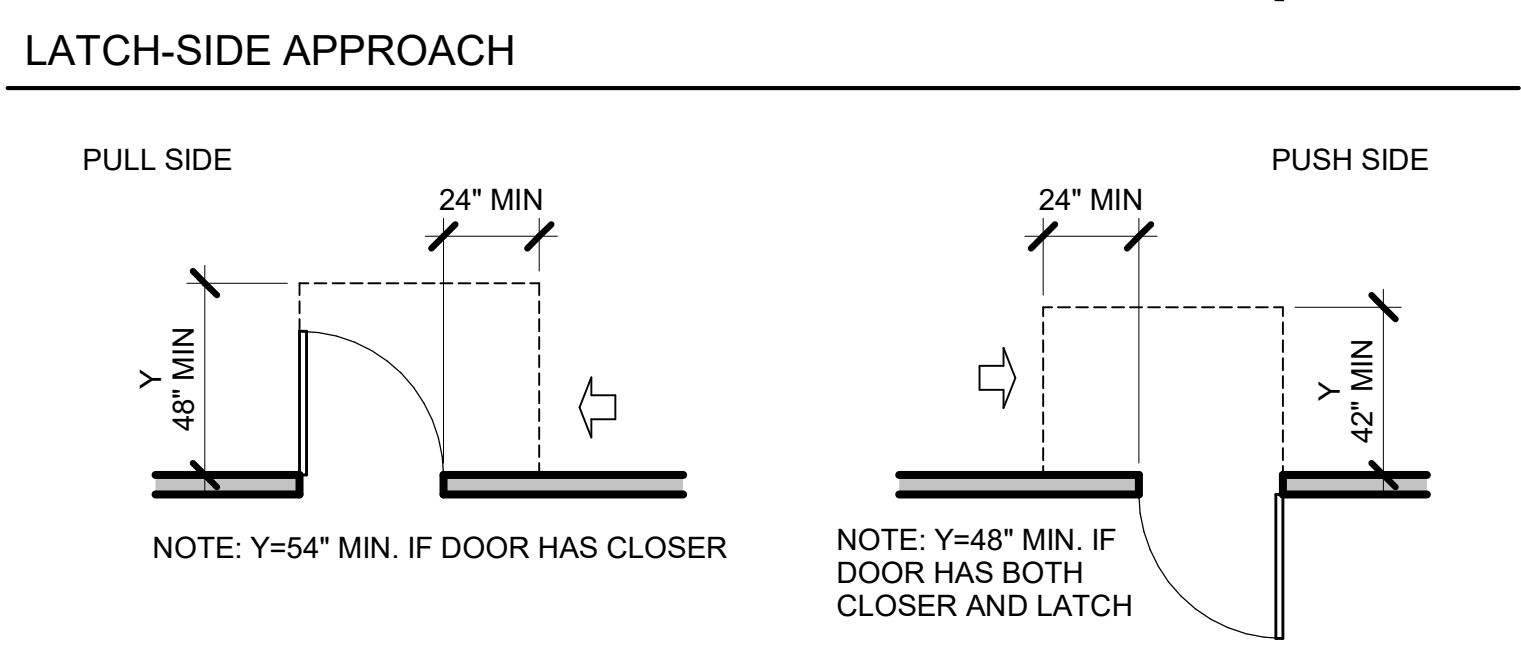
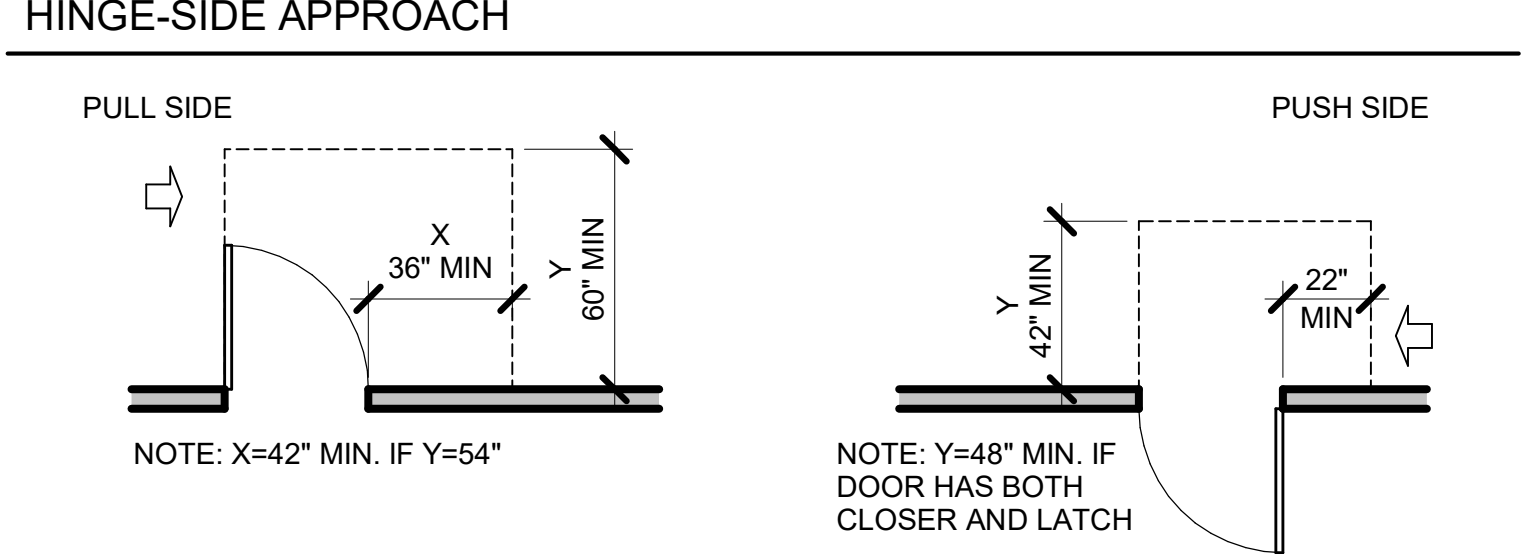
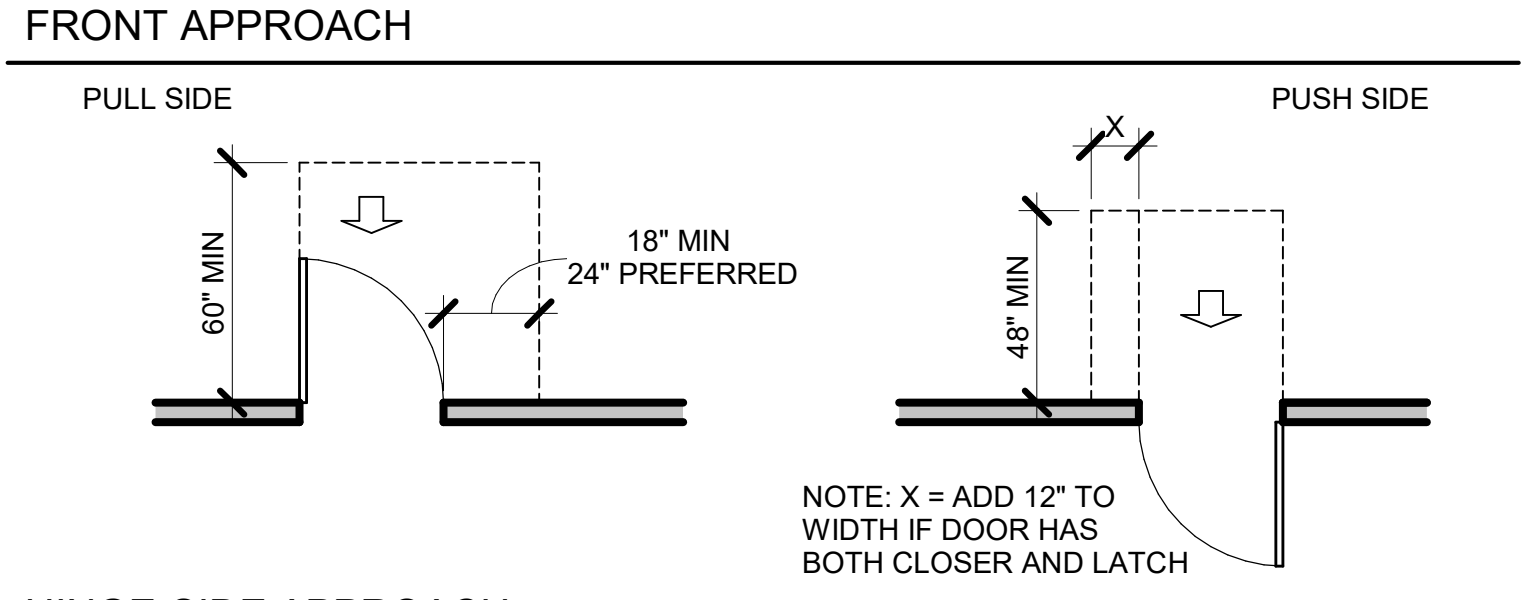
B3 DEVICE ALIGNMENT DIAGRAM

SCALE: 3/8" = 1'-0"



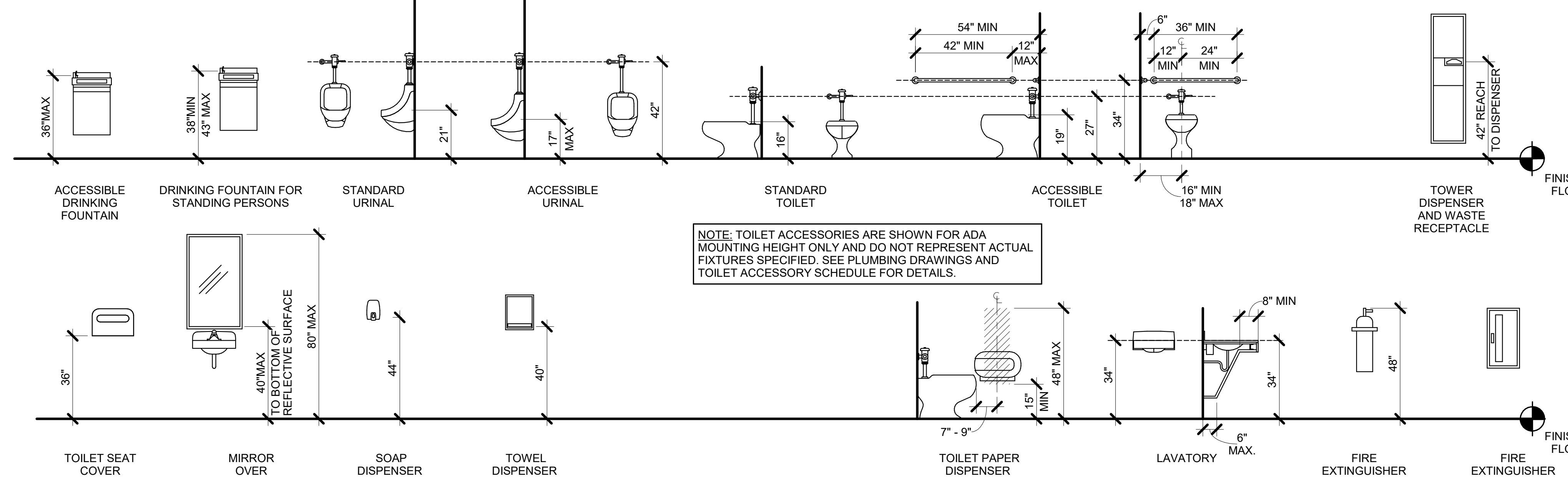
E5 ADA CLEARANCES

SCALE: 3/8" = 1'-0"



B5 DOOR CLEARANCES

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



A1 MOUNTING HEIGHTS

SCALE: 3/8" = 1'-0"



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Cumming, GA 30040



FORSYTH COUNTY
INSPECTORS/RECYCLE
RENOVATION
FORSYTH COUNTY

426 CANTON HWY
CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
	04/02/2020	PERMIT SET

Drawn By
WR

Checked By
JOG

Date
04/02/2020

Job No.
20007

Sheet Title
ADA REGULATORY
DETAILS &
DIAGRAMS

Sheet No.

G-1.01

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4/2/2020 8:36:18 AM
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PROJECT SPECIFICATIONS

PROJECT SPECIFICATIONS

00 50 00 GENERAL CONDITIONS

"The General Conditions of the Contract for Construction", AIA Document A201, 2007 edition, of the American Institute of Architects, is made a part of these Contract Documents in its entirety.

01 20 00 PRICE AND PAYMENT PROCEDURES

A. Applications for Payment shall utilize AIA G702, "Application and Certificate for Payment" including required continuation sheets. Approved Schedule of Values shall be used in the same format and values.

B. Submit three copies of each application.

C. When Architect or Owner's Representative requests substantiating information, submit data justifying dollar amounts in question.

D. Submit to the Architect or Owner's Representative for review and approval a Schedule of Values, at least ten consecutive business days prior to submitting first Application for Payment, utilizing AIA Document G703, "Continuation Sheet".

E. Use Project Specification headings as basis for format for listing costs of work under Divisions 02 - 49. Additional breakdown of work in certain sections may also be provided or required if needed or requested by the Architect or Owner's Representative.

01 30 00 ADMINISTRATIVE REQUIREMENTS

A. Contractor shall schedule and administer pre-construction meeting, periodic progress meetings, and specially called meetings throughout the work progress.

B. In order to provide for a regular review and evaluation of the Work and a systematic discussion of problems, the Owner's representative, Architect (if included in CA scope) and General Contractor shall meet at a mutually agreed schedule during the construction period. Representatives of contractor, subcontractors, and suppliers shall attend on an as needed basis. Contractor shall prepare agenda for meetings, make physical arrangements, preside, record minutes, and distribute copies of minutes within three days to those in attendance, those affected by decisions, the Owner's Representative, and the Architect, if he is involved during the construction.

C. Owner and Architect may attend meetings to ascertain work is expedited consistent with Contract Documents and construction schedules.

D. The Contractor's relations with his subcontractors and materials suppliers and discussions relative thereto, are the Contractor's responsibility and will not be part of the project meeting content.

E. To the maximum extent practicable, meetings will be held at the job site.

F. Contractor shall apply Contractor's stamp, signed or initialed in blue ink, certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and contract documents.

G. Submit sufficient quantities of project data and shop drawings for Architect or Owner's Representative to retain two copies and for one copy to be retained by Contractor and turned over to the Owner at the completion of the Project.

H. Submit sufficient quantities of samples for Architect or Owner's Representative to retain one copy. Review of submittals is only for conformance with design concept of Project and information in Contract Documents.

I. Maintain an orderly file of submittals bearing the Architect's or Owner's Representative's review stamp for the Project duration at Project site and deliver to Owner as part of Project closeout documents.

J. Maintain at the site for the Owner, one record copy of drawings and specifications, addenda, change orders, construction change directives, approved shop drawings, product data, and samples, field test reports, and RFI documents.

K. Store in Contractor's field office in file cabinets or racks for storage of documents. Using record documents for construction purposes is prohibited. Label each document "PROJECT RECORD" in large printed and legible letters.

L. If applicable, on drawings legibly mark to record actual construction including depth of foundations, vertical and horizontal locations of underground utilities, field changes of dimension or detail, and any other changes including change orders.

M. It is the responsibility of the General Contractor to maintain the "as built" set of contract documents. These will serve as the as-built record recording all field built conditions and made part of the closeout package.

01 32 16 CONSTRUCTION PROGRESS SCHEDULE

A. Promptly after award of Contract, Contractor shall prepare and submit to Architect or Owner's Representative estimated construction progress schedules for construction activities.

B. A formal "Notice to Proceed" will be issued to mark commencement of project.

C. Progress schedules shall include complete sequence of activity, dates for beginning and completion of each element; show accumulated percentage of each item's completion and total percentage of work completed.

D. Submit initial schedule with 15 days of Contract award. Submit revisions as needed to show major changes in scope or other identifiable changes.

E. Contractor shall submit samples, shop drawings, and product data to Architect or Owner's Representative as required by the specification sections below.

01 40 00 TESTING LABORATORY SERVICES

A. If required for the project, the Owner shall employ and pay for services of independent testing laboratory acceptable to Architect or Owner's Representative to perform specified services and testing.

01 43 30 SPECIAL INSPECTIONS

A. If required for the project, the Owner will retain the services of a qualified licensed Architect or Engineer to serve as "Special Inspector(s)" to perform inspections pursuant to the Statement of Special Inspections scheduled on the drawings. Approved Special Inspector(s) shall provide testing and verification reports to Owner, architect, building official, and structural engineer of record which indicate the inspected work was done in conformance with approved construction documents.

01 50 00 TEMPORARY FACILITIES, CONTROLS, AND UTILITIES

A. Temporary construction office - provide all temporary facilities as required to build this project with sufficient space for Contractor's personnel, telephone/fax, and office space complete with desk and layout board.

B. Temporary storage facilities - if required, provide with weathertight, secure storage sheds or trailers, type and size required for storage. Locate where directed by Owner. Owner is not responsible for securing the temporary storage facility and any theft or loss that may occur.

C. Electrical service - Terms to be discussed prior to execution of contact between Owner and General Contractor. Electrical for construction purposes may be obtained from Owner's present facility, coordinate with Owner's Representative. Provide temporary lighting for construction purposes as required by OSHA or local code.

D. Telephone/Wi-Fi/Fax - provide telephone, telephone message service, Wi-Fi and fax service to the temporary construction office.

E. Temporary heat and ventilation - Maintain spaces in range of 60o F to 80o F, unless product manufacturer for a particular product calls for more stringent requirements. Interior renovation within an existing building, maintain spaces in range of 60o F to 80o F, unless product manufacturer for a particular product calls for more stringent requirements.

F. Water service - Terms to be discussed prior to execution of contact between Owner and General Contractor. Water for construction purposes may be obtained from Owner's present facility, coordinate with Owner's Representative.

G. Sanitary toilet facilities - Provide and maintain temporary toilet facilities and enclosures for construction personnel. Using permanent new or existing facilities in the building is prohibited by construction personnel.

H. Project sign - order and erect or position sign as requested by Owner's Representative, or as indicated in the Construction Documents. Coordinate location with Owner's Representative.

01 60 00 PRODUCT REQUIREMENTS

A. Provide new products unless specifically required or permitted by Contract Documents.

01 70 00 EXECUTION AND CLOSEOUT REQUIREMENTS

A. Clean-up during construction - execute cleaning procedures to ensure building interior, project site, and adjacent properties are maintained free from construction debris and rubbish. Maintain site, both exterior and interior, in clean and orderly condition. Provide covered, on-site containers for waste collection.

B. Final cleaning - clean finish surfaces in accord with manufacturer's product data and requirements specified in sections not more than 48 hours prior to Date of Substantial Completion. Remove dust, debris, oils, stains, fingerprints, manufacturer's product labels and temporary labels from exposed interior and exterior finish surfaces, include washing and polishing interior and exterior glazing materials, vacuum carpeted and soft surfaces. Broom clean paved surfaces. Protect, maintain and clean inside of all HVAC supply and return ductwork free from dust and debris, and install new clean set of HVAC system filters not more the 48 hours prior to Date of Substantial Completion. Clean plumbing fixtures. Replace spent lamps and bulbs and clean lighting fixtures to "like-new" condition.

C. Submit operation and maintenance manuals - submit at issuance of Date of Substantial Completion or 15 days prior to final inspection whichever date is earlier. Submit in duplicate, in 8 1/2" x 11-inch format in D size ring binders with plastic Covers including an electronic version of all documents in PDF format on a CD. Internally divide with permanent page dividers logically organized. Include:

1. Part 1 - Directory: list names, addresses, telephone numbers of Architect, Contractor, subcontractors, major equipment suppliers, and local service for major equipment.

2. Part 2 - Operation and Maintenance Instructions: arrange by system further subdivided by specification section and include significant design criteria, equipment list, component parts list, operating instructions and maintenance instructions.

3. Part 3 - Project Documents and Certificates: include shop drawings and product data, air balance reports, certificates, and photocopies of warranties and bonds.

D. Certificates from governing code authorities/AHJ indicating construction has been inspected as required by laws or ordinances and building is approved for occupancy.

E. Warranties - Provide executed warranty in writing, indicate Date of Substantial Completion and warranty expiration date. Warranty period begins on Date of Substantial Completion and continues for one year unless otherwise indicated in individual specification sections or otherwise provided by individual manufacturers' warranties.

F. Record Documents - Provide set of Record Documents with final Application for Payment. This includes a scanned copy of the as-built set of contract documents identifying, including but not limited to, all Bulletins, RFI's Change Orders and field conditions.

G. Tools, equipment, spare parts, extra material, attic stock and related items as required in specification sections at final Application for Payment.

H. Fire extinguishers - Verify extinguishers are charged and ready for use, provide attached tag indicating date tested and by whom.

I. Keys - Construction keying shall be voided or change out cylinders that utilize construction keying. Deliver at Date of Substantial Completion to Owner's Representative keys with each tagged indicating lock which key operates. The Owner shall provide the General Contractor with Keying schedule unless directed otherwise by the Owner.

J. Maintenance training - provide a training class for each of the primary systems. Training class shall include Owner and/or Owner's designated representative. General Contractor shall video tape training class for archiving and reference by the Owner and/or Owner's designated representative.

FOR THE FOLLOWING MATERIAL SPECIFICATIONS, REFERENCE AND COMPLY WITH THE MANUFACTURER'S PRODUCT LITERATURE, SPECIFICATIONS, AND WRITTEN INSTRUCTIONS ON INSTALLATION UNLESS OTHERWISE NOTED.

02 41 00 BUILDING DEMOLITION

A. Comply with the most recent applicable codes for demolition of structures, safety of adjacent structures, noise control, and dust control. Obtain required permits, notify affected utility companies and comply with their requirements, conform to regulatory procedures when hazardous or contaminated materials are discovered, and do not close or obstruct roadways without permits.

B. Suspend operations immediately if hazardous or contaminated materials such as asbestos or polychlorinated biphenyls, not previously rendered harmless, are encountered, contact Architect and Owner in writing. Do not resume operations until directed, hazardous or contaminated materials have been rendered harmless, and conditions are agreed to by Owner and Contractor in writing.

C. Provide and maintain temporary barriers and security procedures as required to protect property and people and to meet the requirements of the General Conditions. Protect existing landscaping, appurtenances and structures that are not to be demolished. Prevent movement or settlement of adjacent structures. Provide bracing and shoring. Mark location of all utilities prior to proceeding with scope of work.

D. Minimize interference with adjacent structures and public or private access. Maintain protected egress and access at all times. Obtain written permission from adjacent property Owners when demolition equipment will traverse or infringe upon their property. Suspend operations immediately if adjacent structures appear to be in danger, contact Architect and authority having jurisdiction, do not resume operations until directed. Provide hoses and water connection to sprinkle demolition area with water to minimize dust. It is the sole responsibility of the General Contractor to confine dust and odors to construction area and quickly remediate any breeches in containment.

06 10 00 ROUGH CARPENTRY

A. Lumber shall be #2 Southern Pine or Western Lumber. Miscellaneous furring and nailers shall be utility grade Southern Pine. Nailers and blocking associated with roofing and flashing systems shall be preservative and fire-retardant treated. Exterior plywood shall be CC-EXT-APA, Group I. Interior plywood shall be A-D, INT-APA, Group 1. Fire-retardant-treated wood.

B. Provide concealed blocking, nailers, and supports for securing applied fixtures and fittings; specific items to be indicated on the drawings.

C. Provide concealed blocking, nailers, and supports for securing base cabinets and wall mounted cabinets to partitions. Reference drawings for locations of base and wall mounted cabinets.

D. Provide concealed blocking, nailers, and supports for securing video/t.v./monitors to partitions. Reference drawings for locations of wall mounted video/t.v./monitor locations.

E. Backboards at phone equipment shall be 3/4" fire treated plywood, painted face and all exposed edges. Sand, prime and ease all edges prior to painting.

F. Nailing schedule shall be in accord with current edition of International Building Code.

G. Install rough carpentry work cut square on bearings, closely fitted, accurately set to required lines and levels and secured in place. Brush apply preservative treatment to cut ends of treated lumber. Coordinate location of blocking and nailers with locations of finishing materials, fixtures, specialty items and trim. Install plywood with face grain perpendicular to supports. Terminate panels over supports, allowing 1/8" between end joints and 1/4" between edge joints for expansion and contraction.

06 20 00 FINISH CARPENTRY

A. Coordinate and install millwork provided by Tenant, and as indicated on drawings.

B. Installer must have a minimum of five years' experience in the same field and be able to demonstrate successful projects that meet the specified AWI grade.

C. Source Quality Control: Obtain materials for each type, including veneer doors, from a single manufacturer or source so as to ensure matching of quality, color, grain, and finish.

D. Quality standards for the following types of architectural woodwork, "Premium Grade" except as modified, as follows:

1. Standing trim, running trim, and rails: AWI Section 300, Custom Grade.
2. Architectural cabinets, laminate clad: AWI Sections 400 for Flush Overlay and 400B, Premium Grade.
3. Architectural cabinet tops: AWI Sections 400 for High Pressure Decorative Laminate tops and 400C, Custom Grade.
4. Shelving: AWI Section 600, Custom Grade.
5. Paneling: AWI Section 700.
6. Miscellaneous ornamental items: AWI Section 700.
7. Stile and rail doors: AWI Section 1400.
8. Factory Finishing: AWI Section 1500.

E. Wood Treatment: Where fire-retardant treated woodwork is indicated, use approved fire-retardant treatment that will not adversely affect the desired finish and appearance.

F. Project Conditions: Stabilize humidity and temperature at normal operating Conditions at least seven (7) calendar days prior to installation and thereafter.

G. Installation: Meet AWI standards for quality standards and premium construction for tolerances. Scribe and cut work to fit adjoining work, refinish cut surfaces and repair damaged finish at cuts. Anchor casework to anchors or blocking built-in or directly attached to substrate. Secure to grounds, stripping, and blocking with countersunk concealed fasteners and blind nailing as required for a complete installation.

H. Lumber (Verify all species selections with drawings):

1. Exposed and semi-exposed painted millwork and trim: Custom Grade Poplar or Custom Grade White Pine, kiln dried.

2. Interior standing and running trim: Custom Grade Poplar or Custom Grade White Pine, kiln dried. Install in single, unjointed lengths for openings and runs less than 16'-0". Stagger joints in adjacent members. Cope at returns, miter at corners.

I. Hardware

1. Door and drawer pulls to be 4" matt nickel stainless steel.
2. Concealed hinges to be Grade 2 (Institutional duty), 170 degrees opening.
3. Door and drawer locks: provide elbow catches on un-keyed leaf of pair of doors. If electronic push button, provide battery operated with low battery indicator.
4. Drawer Slides to be full extensions slides; 100lb per slide per standard drawer, 150lb per slide per standard file drawer and 250lb per lateral file drawer.
5. Shelf standards to be same color as cabinet interior.

J. Countertops shall have 1-1/2" radiused corners as indicated on drawings, U.N.O.

07 21 00 THERMAL INSULATION

A. Batt insulation shall be fiberglass batts width equal to framing spacing, kraft face, ASTM C665, Type II, Class C, 1.0 perm rating, R-13 in walls.

B. Rigid extruded polystyrene insulation shall be extruded, closed cell, CFC-12 free, polystyrene boards meeting ASTM C578, Type IV for use in perimeter and other applications, thickness 2" or as scheduled on drawings.

C. Safing Insulation - shall be unfaced, semi-rigid, 4 pcf minimum. Install in cavities of all floor-to-floor penetrations; include spaces around piping and duct penetrations. Foam safing may be used in lieu of saffing insulation.

D. Sound insulation - refer to Section 09 21 16 Gypsum Board Assemblies.

E. Provide continuous 1/4" foam tape filler where walls meet window mullions. Provide double foam tape fill at demising wall between tenants, intersecting partitions and demising walls.

07 84 00 FIRE STOPPING

Fire stopping shall be single component self-adhering, flexible, water-tight, non-sag, elastomeric silicon or endothermic latex compound. Provide firestopping as required to maintain ratings at all penetrations through rated walls, partitions, floors and floor-ceiling assemblies. Fire-stopping to comply with Underwriters Lavatory testing numbers where apply.

07 90 05 SEALANTS AND CAULKS

Exterior joints and all other openings in the building shall be caulked, gasketed, weather-stripped, or sealed in an approved manner (ref. Georgia State Energy Code, Section 502.4). Seal all sound partitions with acoustical sealant at base, head, perimeter and all openings.

A. Silicone sanitary sealant, SSS-1, one-part silicone rubber, mildew and stain resistant, ASTM C920, Type S, Grade NS, Class 25. Use at plumbing fixture perimeters mounted on walls and top and edges of backsplashes at countertops.

B. Two-part non-sag polyurethane sealant, PSV2-1, two-part polyurethane based sealant with separate prepackaged color agent to achieve colors, ASTM C920, Type M, Grade NS, Class 25. Use at exterior and interior door and window frames perimeter.

C. Caulking compound for setting thresholds and for other interior caulking shall be an oleo-resinous, gun grade, non-staining plastic compound meeting Federal Specification TT-T-598. Material shall have shrinkage factor not exceeding 15%.

D. Acrylic-latex caulk, ALC-1, flexible paintable, non-staining, non-bleeding acrylic emulsion, ASTM C834. Use at interior non-working cosmetic joints between similar and dissimilar adjacent materials.

E. Butyl caulk, BC-1, one part butyl rubber caulk, ASTM C1085, black. Use continuous double bead at sill or threshold of exterior swinging doors.

F. Backer rod, compressible rod stock closed cell foam, open cell foam, soft cell foam, or neoprene foam, type recommended by sealant manufacturer for material compatibility and conditions encountered.

08 11 00 WOOD FRAMES

A. Exterior steel doors and frames to be Building Standard.

B. Verify existing casing style size on site. WM356 Woodgrain Millwork 11/16 IN x 2- 1/4 in WM356 primed finger jointed pine casing door - 84 inch sides which is enough material to finish both sides of a door.

C. Frame construction shall be factory primed, pressed steel, frames for doors and other indicated openings. Exterior door frames shall be 16-gauge, face welded, seamless with joints filled and weather-stripping per Section 08710. Interior frames shall be knock down "KD" type frames, and 16-gauge. All frames shall have labels for labeled openings as required, with standard rubber, neoprene, or silicone silencers.

D. Provide manufacturer's standard frame anchors for attachment to studs at 20" o.c. max or fraction thereof on each jamb.

E. Door construction for exterior units shall be Grade II, Heavy Duty, seamless composite construction, 16-gauge material, with 20 PSI compressive strength foamed-in-place polyurethane core.

F. Submit manufacturer's product data and shop drawings indicating door and frame elevations, sections, materials, gauges, finishes, fabrication and erection details, location of finish hardware by dimension, and details of openings and louvers.

G. Provide metal drip at exterior door frames which have no alternative cover.

08 14 16 FLUSH WOOD DOORS

A. Industry standards are those of the National Wood Window and Door Association (NWWDA) and the Architectural Woodwork Institute (AWI). Fire-rated wood doors shall bear label of testing and approval by independent testing agency, having been tested in accord with UBC 7-2-1997 or UL 10-C for ratings indicated.

B. Wood doors shall be solid, particle board core, 1-3/4" thickness, meeting NWMA I.S.-1. minimum five-ply, 1-3/4" thickness. Core shall have min. 28 pcf density. Premium Grade, with "Plain-Sawn" White Oak" face veneers and edges; veneers book matched across door face; full length. Plastic laminate veneer doors shall consist of .050" high pressure decorative laminate. Conform to NEMA Standard LD-3-1980, Grade GP 50. Fire rated doors shall be rated as shown on the drawings, with factory installed labels. Fire rated doors shall have reinforced edges to accept full mortise hinges.

C. Execution: install doors in respective frames using specified hardware. Doors shall operate without binding or sticking at frames or floor. Maintain NWWDA and NFPA No. 80 standard tolerances.

D. Submit shop drawings indicating door species, finish, sizes, construction, and hardware locations.



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INSPECTORS/RECYCLE
RENOVATION
FORSYTH COUNTY

426 CANTON HWY
CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
	04/02/2020	PERMIT SET

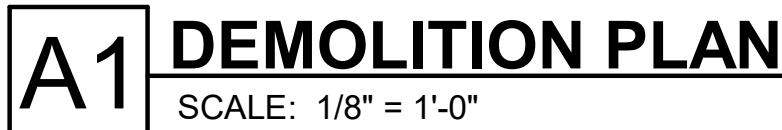
Drawn By WR	Checked By JDG
Date 04/02/2020	Job No. 20007

Sheet Title
SPECIFICATIONS

Sheet No.

G-3.01

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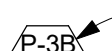
**NOTE: REFERENCE MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS
& SPECS FOR ADDITIONAL DEMOLITION NOTES.**



426 CANTON HWY
CUMMING, GA 30040

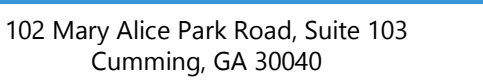
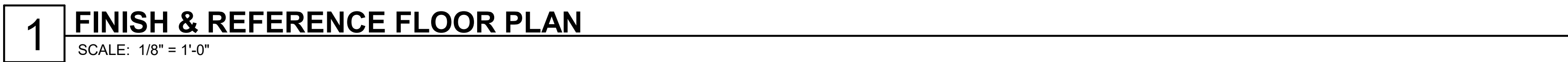
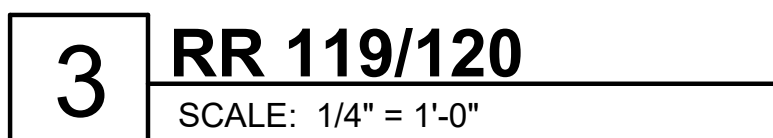
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FINISH SYMBOL LEGEND

  FLOOR FINISH  ACCENT WALL FINISH	 FLOOR TRANSITION F-# FINISH PLAN KEY NOTES  FLOOR FINISH DIRECTION
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ROOM FINISH SCHEDULE

ALTERNATE ADD #2 - PRICE TO REMOVE EXISTING CARPET AND REPLACE WITH LVP-1



**FORSYTH COUNTY
INSPECTORS/RECYCLE
RENOVATION**

FORSYTH COUNTY

426 CANTON HWY
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[illegible]

Drawn By WR
Checked By JDG

Date	Job No.
04/02/2020	20007

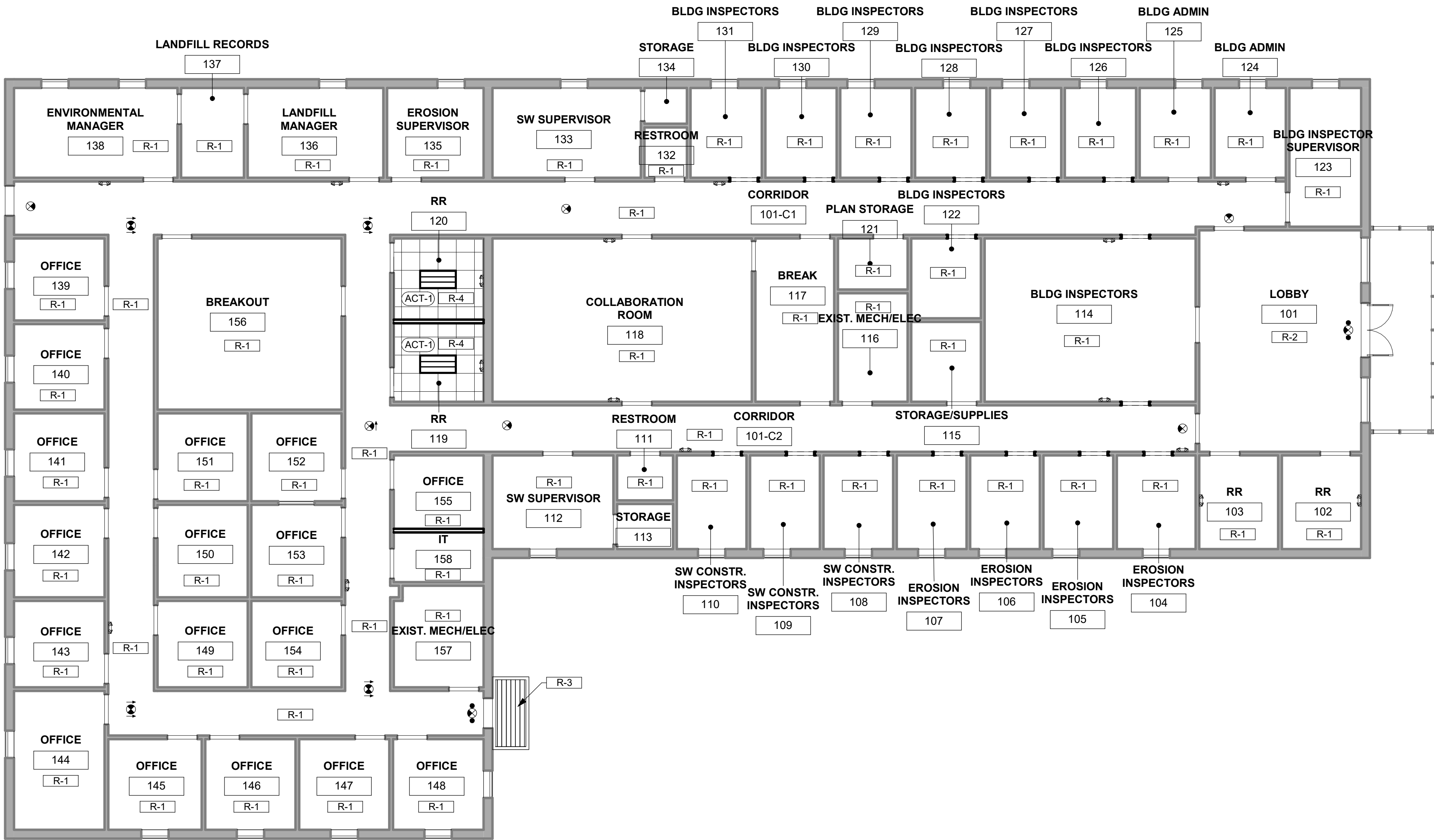
Sheet Title
**FINISH &
REFERENCE PLAN -
LEVEL 1**

Sheet No. _____

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1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

2 AWNING DETAIL
SCALE: 3/4" = 1'-0"

RCP SHOWN ON THIS DOCUMENT IS FOR GRAPHIC ILLUSTRATION ONLY AND SHALL NOT BE USED AS AN ACCURATE REPRESENTATION OF MECHANICAL, ELECTRICAL AND PLUMBING SCOPE OF WORK. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR SCOPE OF WORK.

RCP LEGEND	
	2X2 LAY-IN LIGHT
	2X4 LAY-IN LIGHT
	SUPPLY
	RETURN
	EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION)
	EMERGENCY LIGHT
	EXIT SIGN W/ EMERGENCY LIGHT KITS
	ACCESS PANEL
	X' - X' CEILING TAG
	GYPSUM BOARD CEILING
	LINEAR DIFFUSER
	LAY-IN CEILING GRID
ACT-1: ACOUSTICAL CEILING TILE MFR: ARMSTRONG, BASIS OF DESIGN STYLE: CORTEGA ANGLED TEGULAR MODEL NO: 704 EDGE: ANGLED TEGULAR SIZE: 2' X 2' X 3/4" COLOR: WHITE GRID: 15/16" PRELUDE COLOR: WHITE ALTERNATE ADD #3	
RCP GENERAL NOTES	
1. CONSTRUCTION PROFESSIONAL SHALL FIELD VERIFY ALL FIXTURE LOCATIONS. ANY CONFLICT WITH FIELD CONDITIONS, DRAWINGS AND/OR OTHER TRADES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY UPON DISCOVERY FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.	
2. PROVIDE AND INSTALL CEILING TILE, MAIN TEES, CROSS TEES, WALL MOULDINGS AND OTHER ACCESSORIES NECESSARY TO COMPLETE THE SCOPE OF WORK.	
3. ALL ADJACENT LIGHT SWITCHES SHALL BE GANGED WITH A SINGLE FACE PLATE.	
4. UNLESS APPROVED BY THE ARCHITECT, ALL THERMOSTATS SHALL BE LOCATED DIRECTLY ADJACENT TO THE LIGHT SWITCH IN THE ROOM IN WHICH IT OCCURS.	
5. CENTER ALL SPRINKLER HEADS IN CEILING TILES WHERE POSSIBLE. ALL SPRINKLER HEADS IN GYPSUM BOARD TO BE RECESSED & CONCEALED.	
6. CENTER ALL LIGHT FIXTURES IN SPACE, U.N.O. ALL RECESSED LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILES WHERE POSSIBLE, U.N.O.	
7. CONSTRUCTION PROFESSIONAL WILL ENSURE THAT LENSES IN LIGHTING FIXTURES ARE CLEAN AND FREE OF DUST, DIRT AND SMUDGES. PLASTIC AND LABELS SHALL BE REMOVED FROM ALL LIGHT FIXTURES AT PROJECT COMPLETION.	
8. NO SUBSTITUTES WILL BE ACCEPTED FOR ANY LIGHT FIXTURES UNLESS APPROVED BY ARCHITECT IN WRITING.	
RCP KEY NOTES	
NOTE VALUE	DESCRIPTION
R-1	EXISTING 2X4 LIGHTING AND ACT CEILING TO REMAIN IN THIS AREA
R-2	ALTERNATE ADD #3
R-3	NEW CANOPY; SEE DETAIL THIS SHEET
R-4	MATCH EXISTING CEILING HEIGHT



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Sheet Title
REFLECTED CEILING
PLAN - LEVEL 1

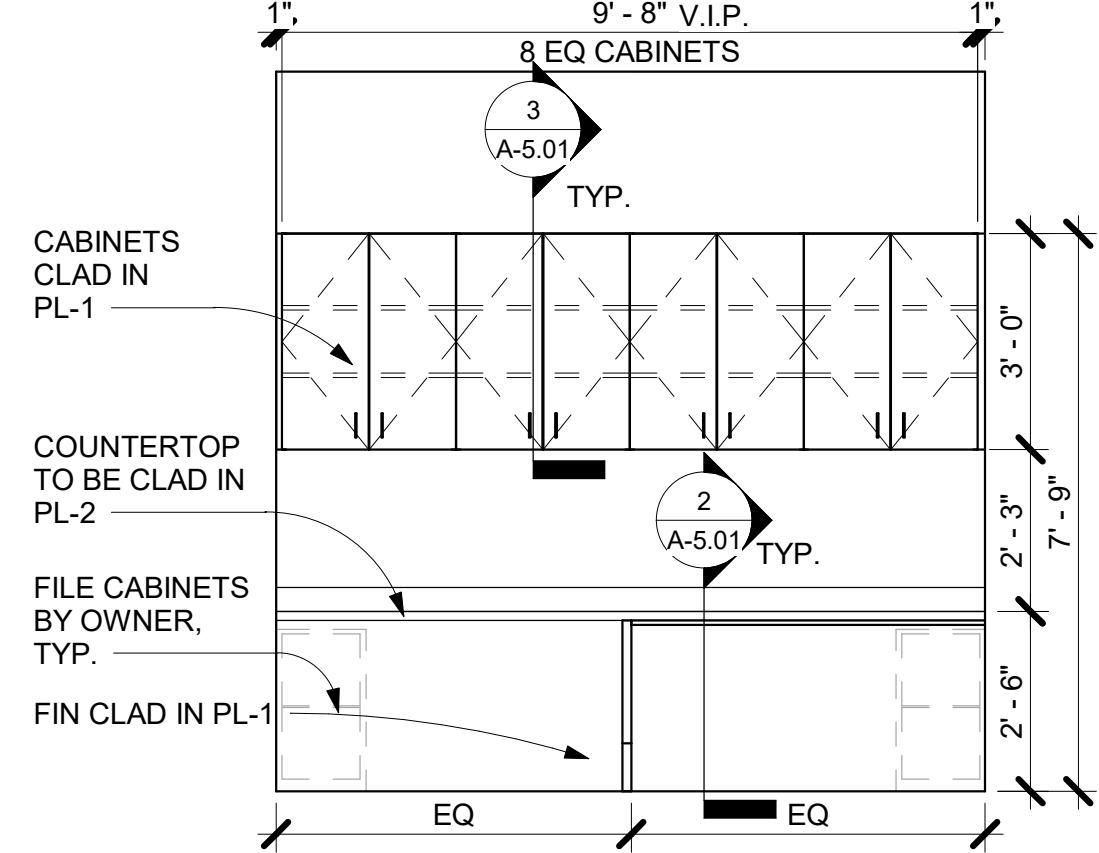
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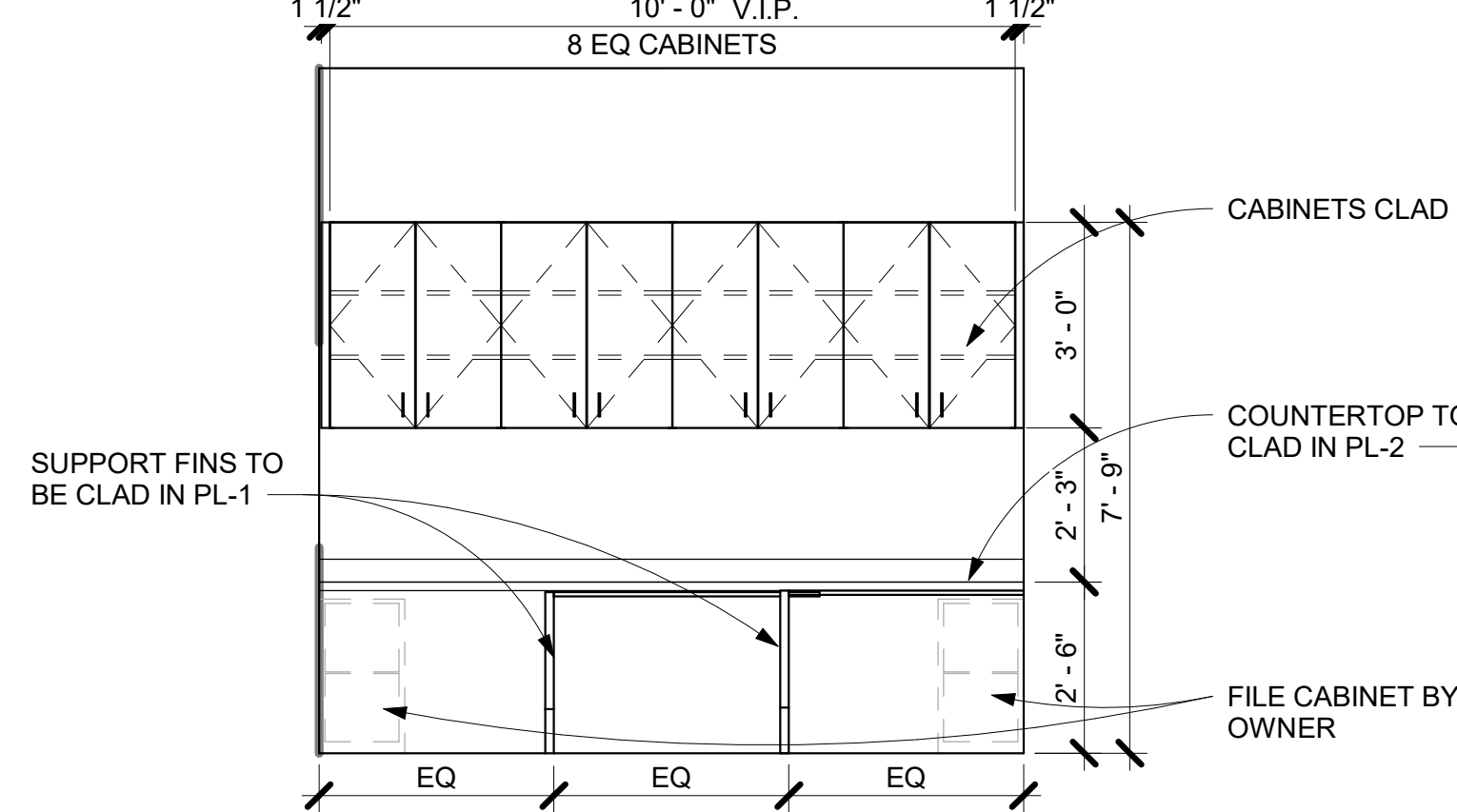
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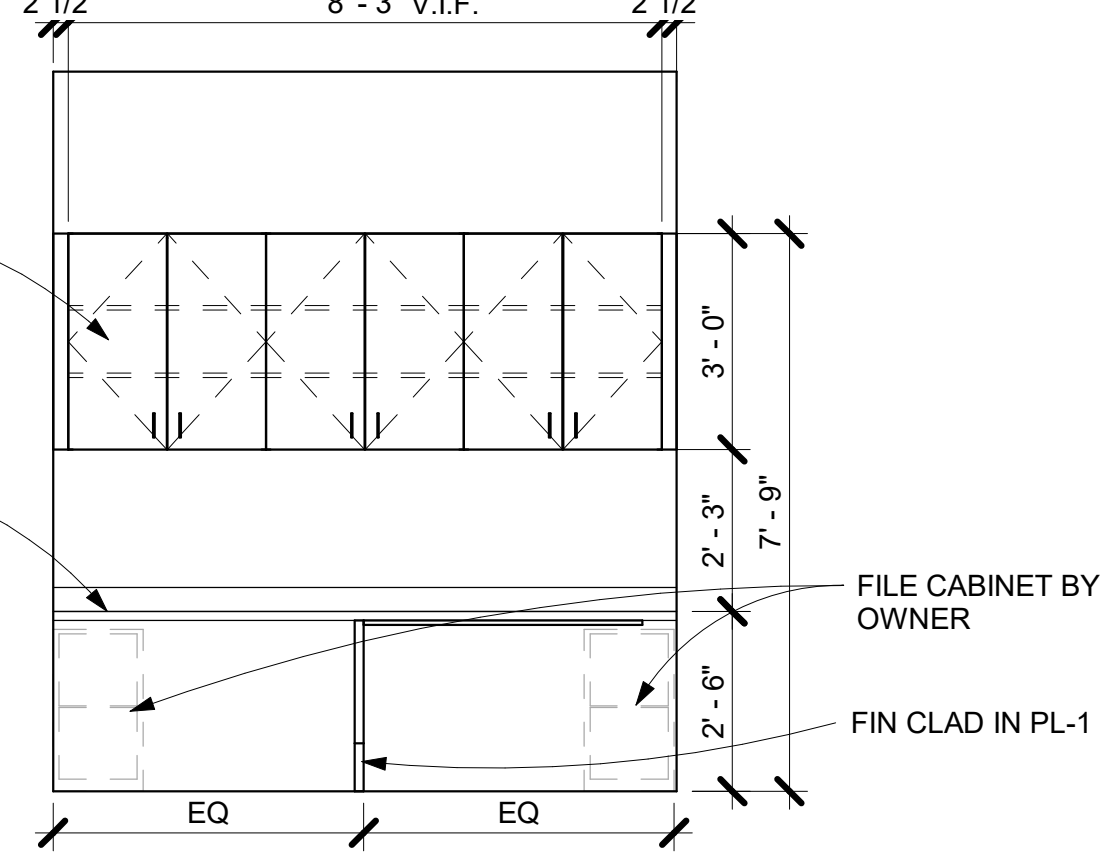
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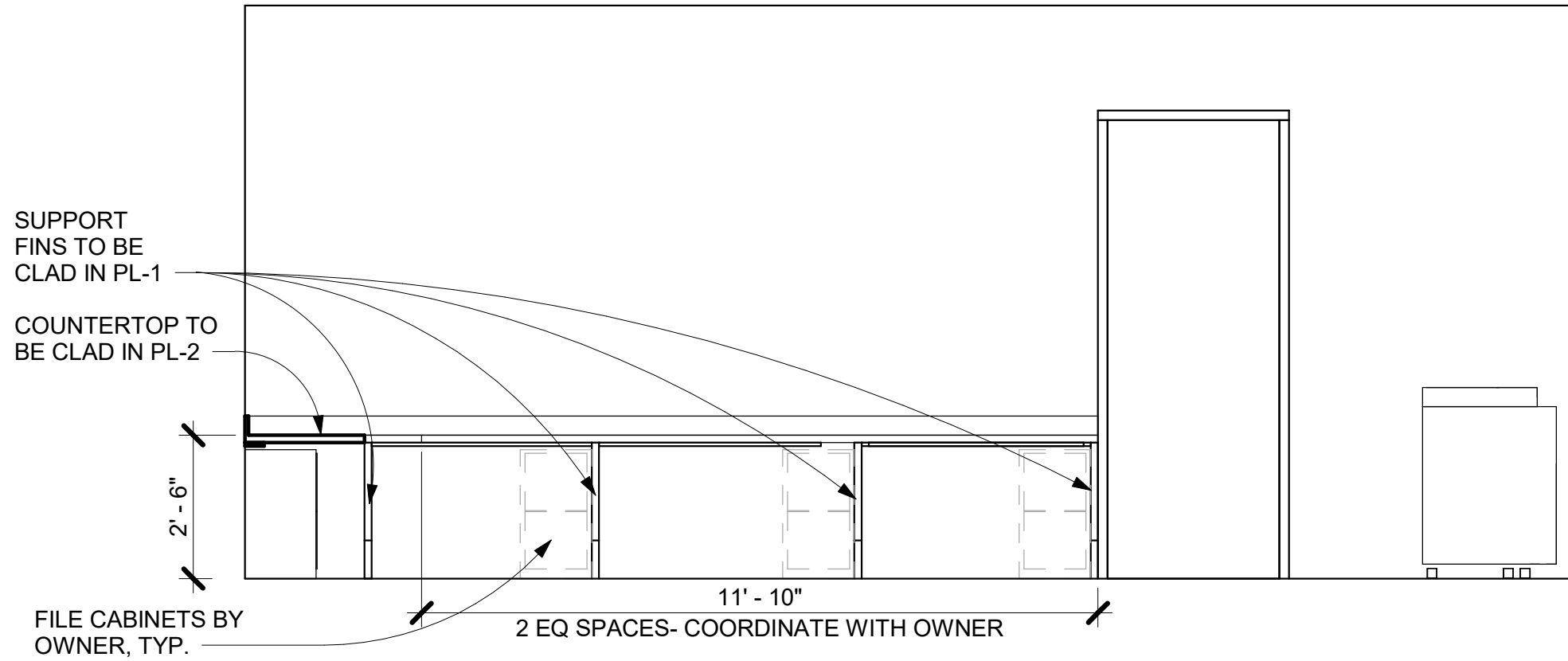
1 ELEVATION - WORKSTATION A
SCALE: 3/8" = 1'-0"



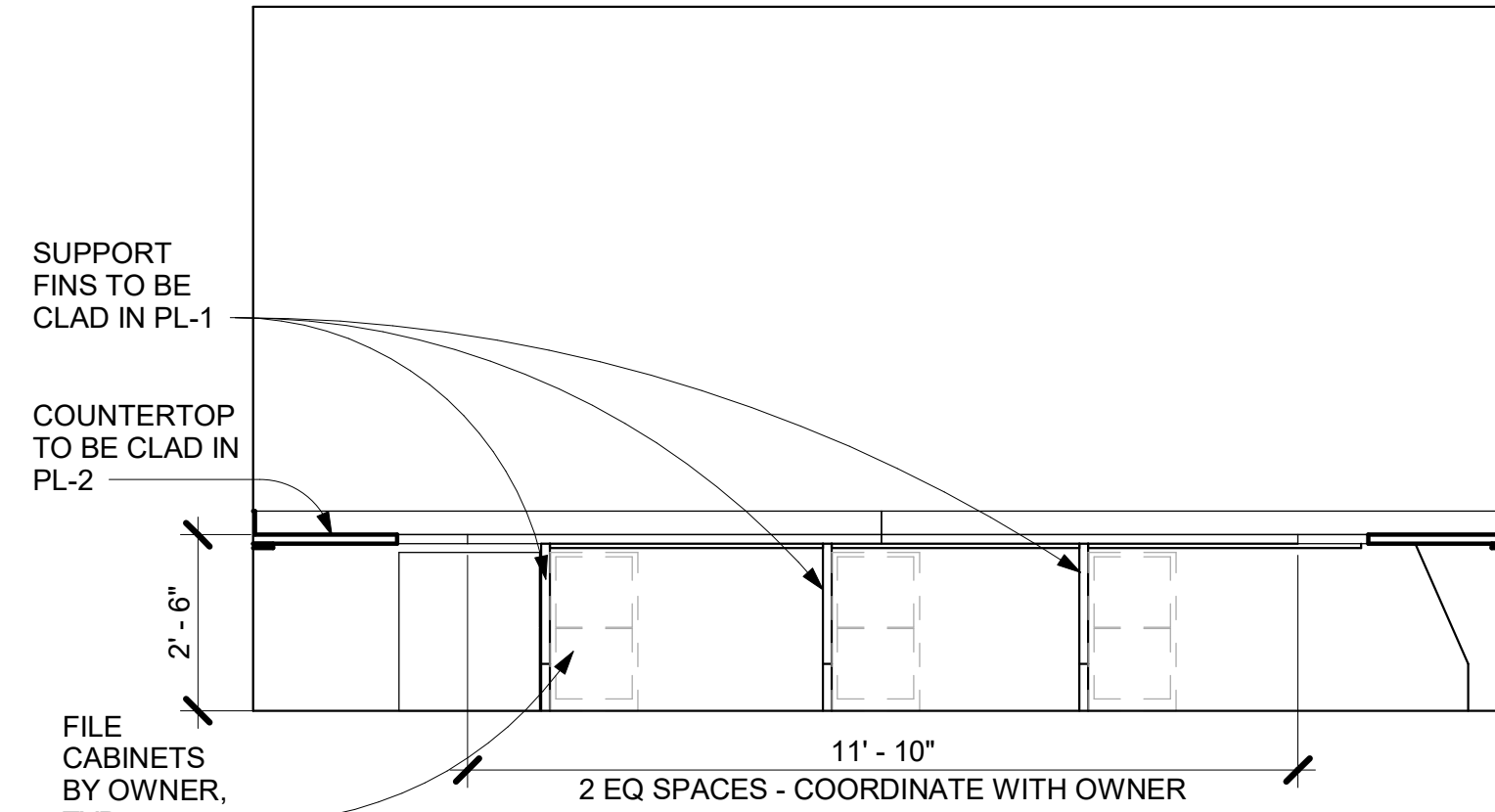
2 ELEVATION - WORKSTATION B
SCALE: 3/8" = 1'-0"



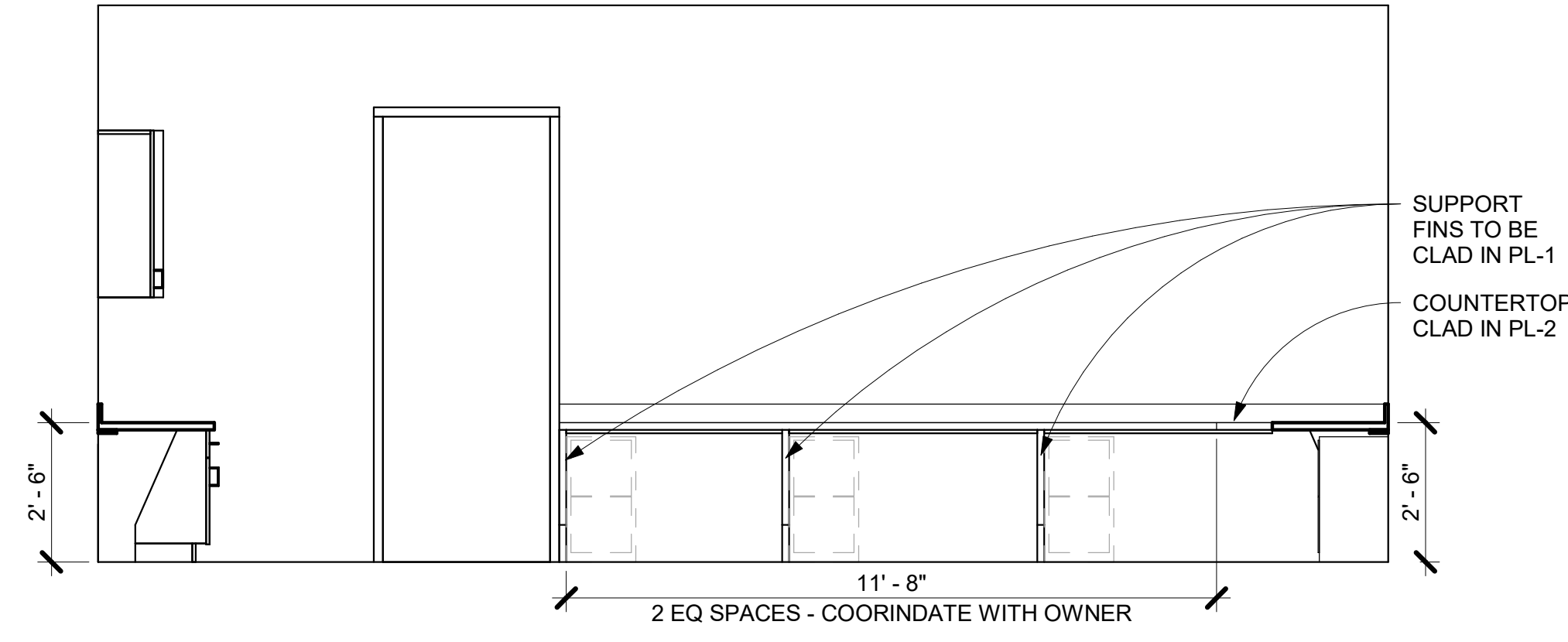
3 ELEVATION - WORKSTATION C
SCALE: 3/8" = 1'-0"



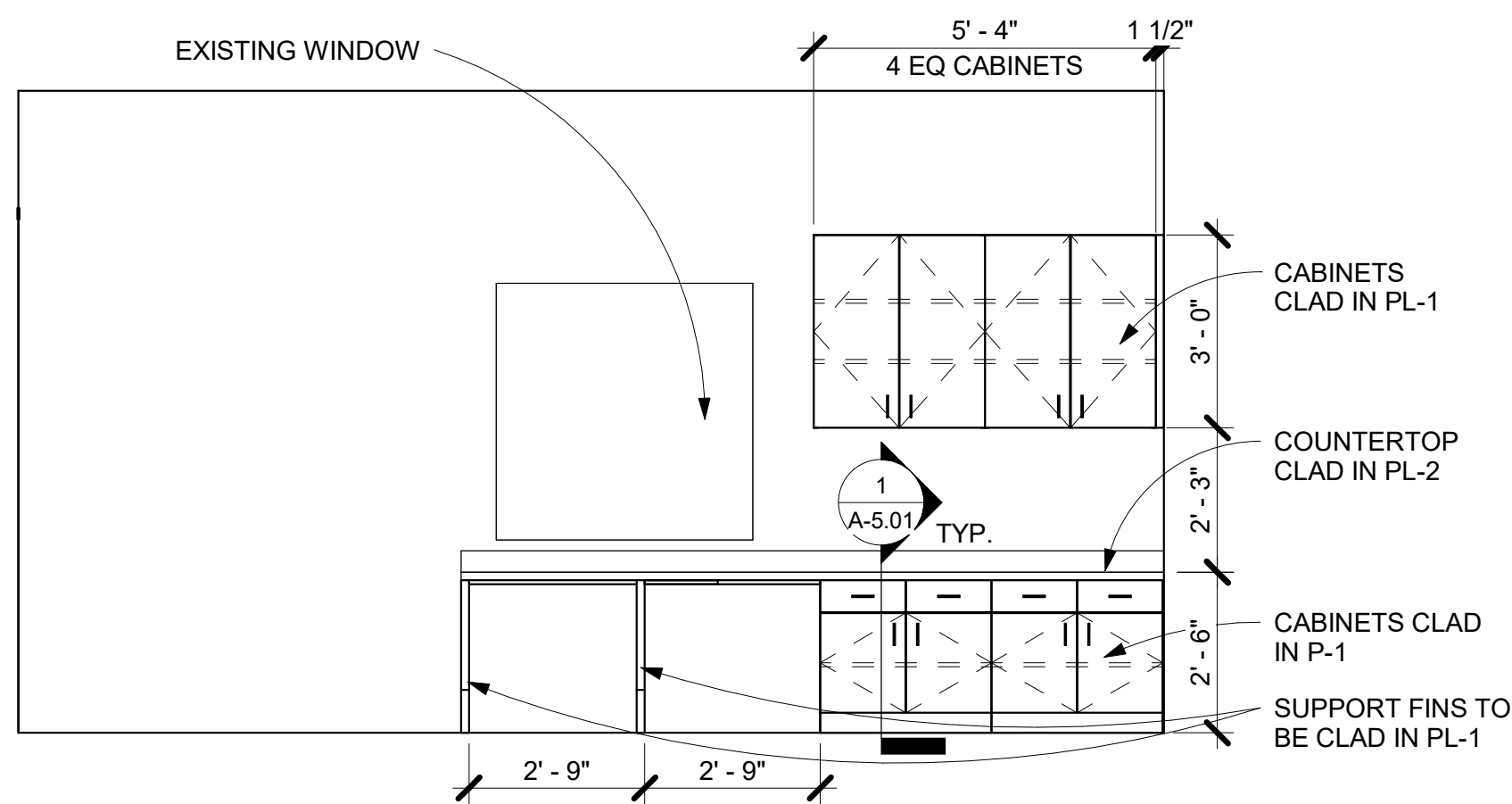
4 BLDG INSPECTORS NORTH
SCALE: 3/8" = 1'-0"



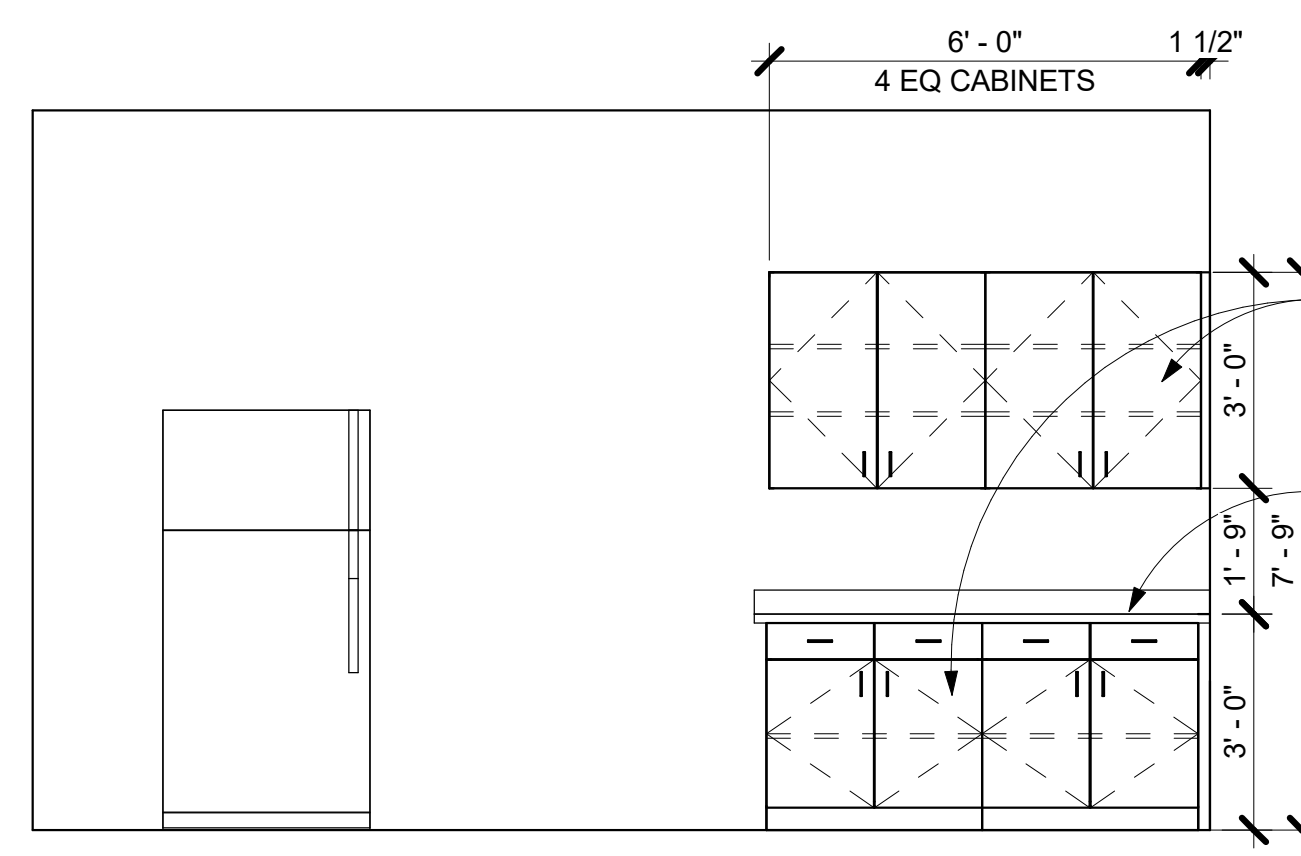
5 BLDG INSPECTORS WEST
SCALE: 3/8" = 1'-0"



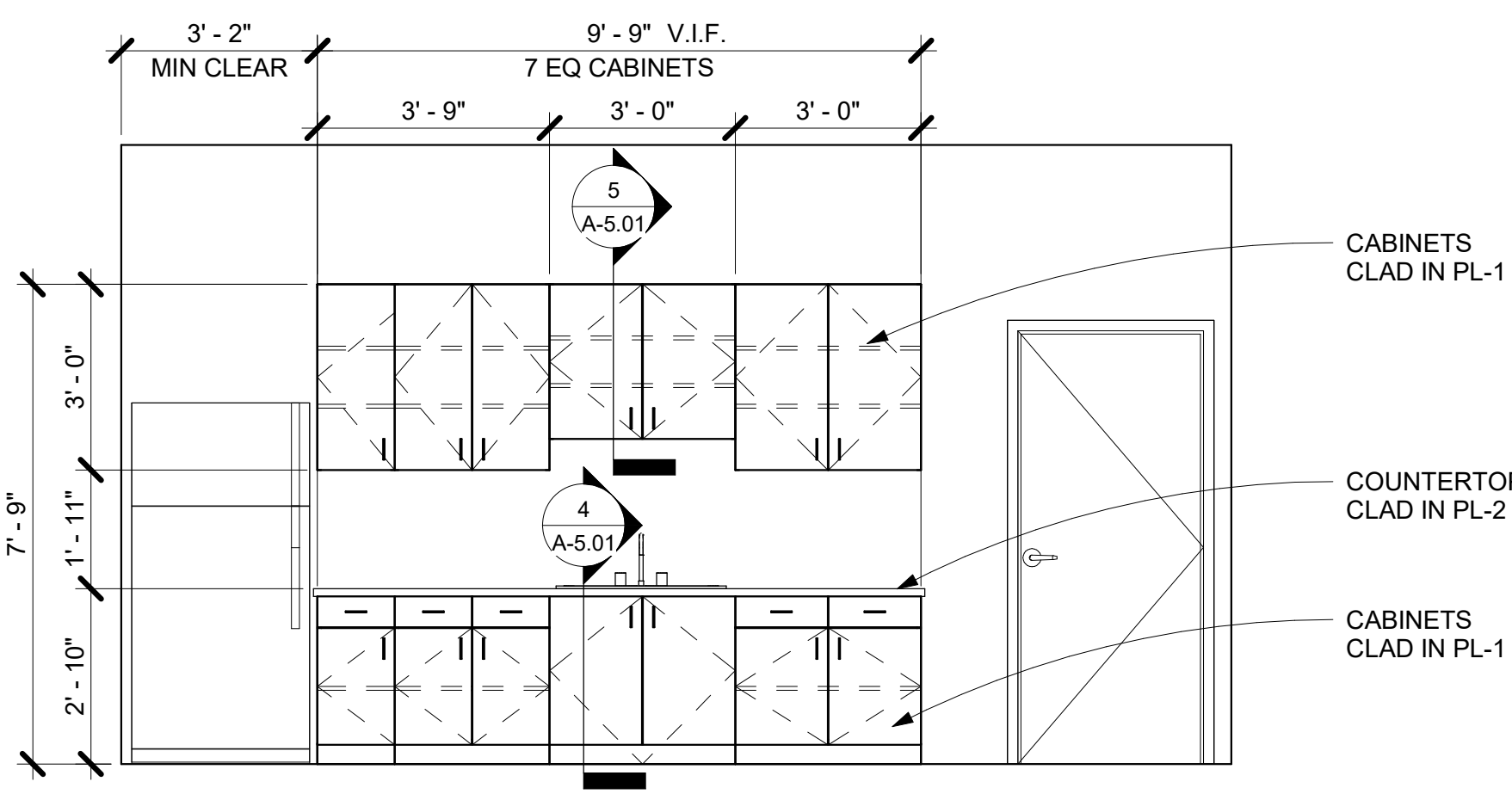
6 BLDG INSPECTORS SOUTH
SCALE: 3/8" = 1'-0"



7 BLDG INSPECTORS EAST
SCALE: 3/8" = 1'-0"



8 ELEVATION - COPY/PLAN
SCALE: 3/8" = 1'-0"



9 BREAKROOM
SCALE: 3/8" = 1'-0"
ALTERNATE ADD #1

INTERIOR ELEVATION NOTES

1. GENERAL CONTRACTOR TO COORDINATE EQUIPMENT OUTLINED IN "EQUIPMENT LEGEND" WITH OWNER & OWNER'S MEDICAL EQUIPMENT REPRESENTATIVE. THIS INCLUDES VERTICAL AND HORIZONTAL MOUNTING HEIGHTS OF ALL DEVICES, COORDINATION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING. THE ARCHITECT SHALL RECEIVE SHOP DRAWINGS SHOWING FINALIZED SELECTION OF EQUIPMENT AND SPECIFICA MODEL NUMBERS REVIEWED BY DESIGN TEAM/ENGINEERS PRIOR TO PROCEEDING WITH SCOPE OF WORK.
2. ELECTRICAL OUTLETS ARE ONLY SHOWN FOR COORDINATION WITH EQUIPMENT. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION..
3. LOW VOLTAGE BY OWNE'S REPRESENTATIVE.
4. FURNITURE SHOWN IS TO BE PROVIDED BY OWNER U.N.O. GENERAL CONTRACTOR TO COORDINATE WITH OWNER ON DELIVERY SCHEDULE.



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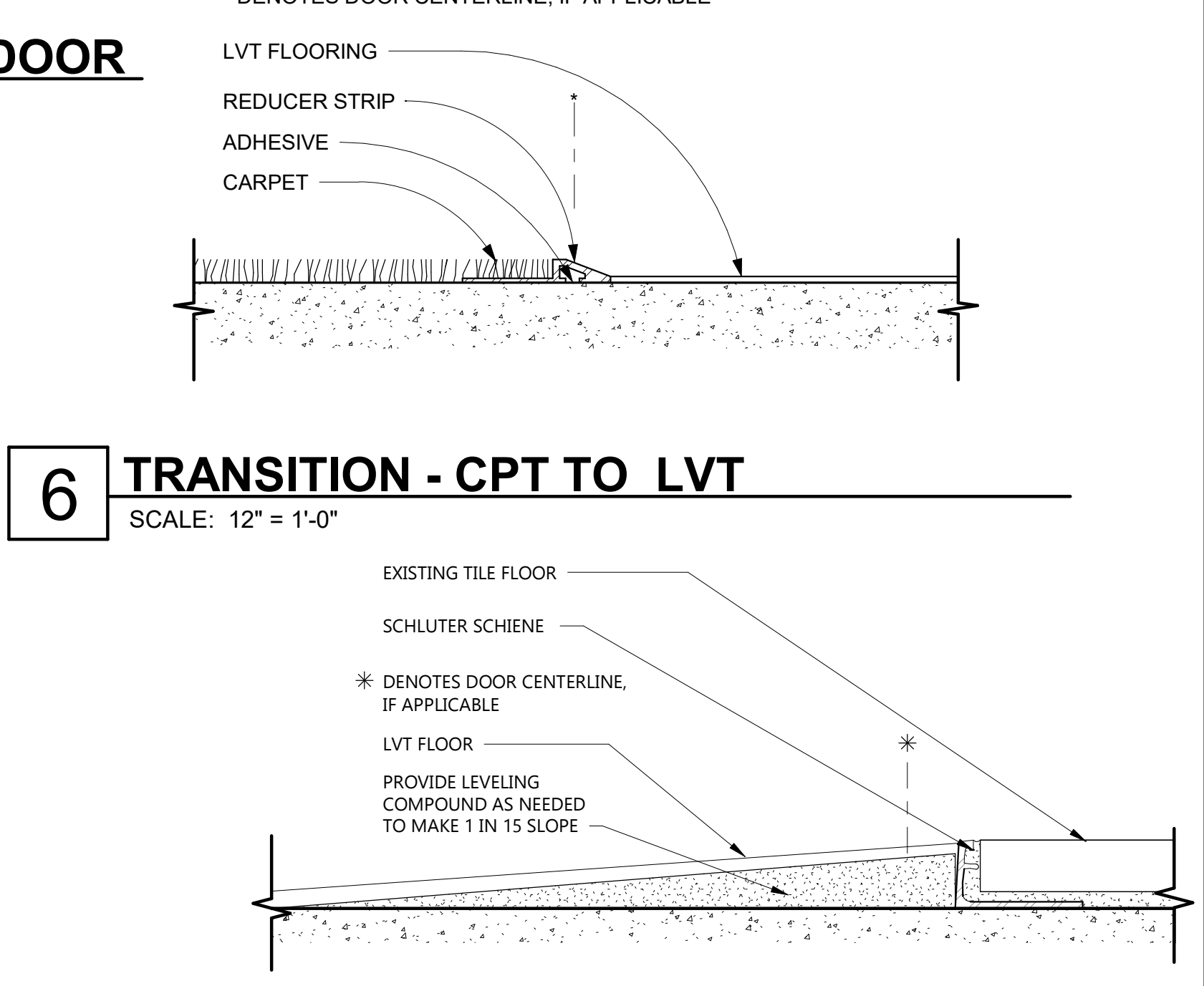
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**FINISH SCHEDULE &
DETAILS**

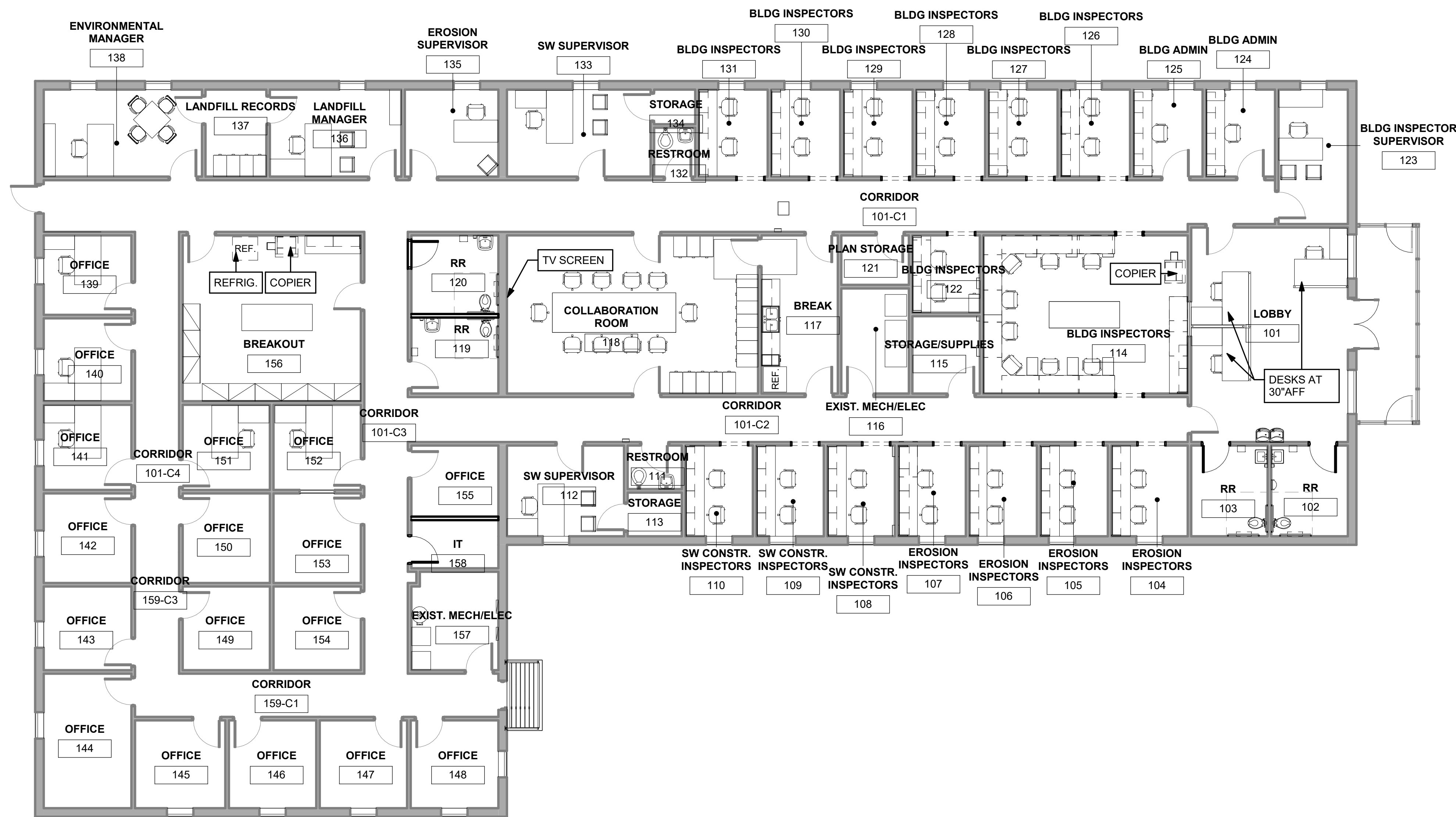
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1 FURNITURE/EQUIPMENT PLAN

SCALE: 1/8" = 1'-0"

FURNITURE, FIXTURE & EQUIPMENT GENERAL NOTES

1. GENERAL CONTRACTOR TO COORDINATE SCHEDULED ITEMS WITH OWNER AND OWNER'S EQUIPMENT REPRESENTATIVE. THIS INCLUDES VERTICAL AND HORIZONTAL MOUNTING HEIGHTS OF ALL DEVICES, COORDINATION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING.
2. LOW VOLTAGE BY OWNER'S EQUIPMENT REPRESENTATIVE, U.N.O.
3. FURNITURE & EQUIPMENT IS BE PROVIDED BY OWNER.
4. GENERAL CONTRACTOR TO COORDINATE WITH OWNER/OWNER REPRESENTATIVE ON DELIVERY SCHEDULE AND INSTALLATION FOR ALL FFE.



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1. ALL EXISTING DOORS TO RECEIVE ROOM SIGNAGE PER SPECIFICATIONS
2. ALL DOORS TO RECEIVE NEW PASSAGE LEVER HANDSETS
3. ALL RESTROOM DOORS TO RECEIVE INT-REST

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PLUMBING FIXTURE SCHEDULE						
TAG	FIXTURE	CIW	HU	WASTE	VENT	SPECIFICATION
<u>WC-1</u>	WATER CLOSET - ADA	1"	N/A	4"	2"	KOHLER K-36057 W/ BEMIS 1655CT SEAT, MOEN 8311 (0.28 GPF) SENSOR (BATTERY) FLUSH VALVE, ADA HEIGHT FLOOR MOUNTED.
<u>LV-1</u>	LAVATORY - WALL MOUNTED ADA	1/2"	1/2"	2"	1-1/2"	KOHLER K-1128 WALL MOUNTED LAVATORY W/ MOEN 842F08 (0.5 GPM) FAUCET, GRID STRAINER 1-1/4" X 1-1/2" P-TRAP, INSULATION KIT, SUPPLY STOP, WALL MOUNTED CARRIER W/ FLOOR MOUNTED UPRIGHTS & ADA COMPLIANT INSTALLATION.
<u>UR-1</u>	URNAL - WALL MOUNTED ADA	1/2"	N/A	2"	1-1/2"	KOHLER K-4591-ET 3/4" TOP SPRU W/ MOEN 8310 (0.28 GPF) BATTERY FLUSH VALVE, ADA WALL MOUNTED CARRIER & ADA COMPLIANT INSTALLATION.
<u>DF-1</u>	DRINKING FOUNTAIN -ADA	1/2"	N/A	2"	1-1/2"	ELKAY MODEL EMABFTLW8LK, 1-1/4" P-TRAP & SUPPLY STOP, W/ ELECTRIC WATER COOLERS WITH BOTTLE FILLER. PROVIDE WITH ADA COMPLIANT INSTALLATION.
<u>BK-1</u>	BREAK SINK	1/2"	1/2"	2"	1-1/2"	ELKAY STAINLESS STEEL SINK LRAD31/3 MOEN 8192 (1.5 GPM) DECK MTD. FAUCET, W/ 4" CENTERS AND SPRAYER. PROVIDE P-TRAP, TAILPIECE, AND WATER STOP.

DUCTLESS SPLIT SYSTEM SCHEDULE												
ID TAG	SERVICE	SUPPLY CFM	CAPACITY (BTU/Hr)		INDOOR FAN DATA		OUTDOOR UNIT ELECTRICAL DATA			BASIS OF DESIGN	NOTES	
			COOLING	HEATING	VOLT/PH	MCA	VOLT/PH	MCA	MOCP			
D88-1/GU-1	IT ROOM	425	12,000	--	--	--	208/1	13	15	MITSUBISHI PKA/PUY	1 2 3 4	

NOTES:
1: DISCONNECT SWITCH SUPPLIED BY MECHANICAL CONTRACTOR FOR INTERIOR AND EXTERIOR UNITS.
2: PROVIDE ACCESSORIES TO ALLOW UNIT COOLING OPERATION DOWN TO 0°F AMBIENT.
3: INDOOR UNIT POWERED BY OUTDOOR UNIT.
4: PROVIDE WITH EXTERNAL (120V) CONDENSATE PUMP.

FAN SCHEDULE											
TAG	LOCATION	CAPACITY (CFM)	ESP (IN WG)	MOTOR (W)	DRIVE	VOLT/Φ	MAX FAN RPM	MAX SONES	TYPE OF FAN	BASIS OF DESIGN	NOTES
EF-1	BATHROOM	70	0.25	13	DIRECT	120/1	862	0.4	CEILING EXHAUST FAN	GREENHECK: 8P	1 2 3
EF-2	BATHROOM	140	0.25	23	DIRECT	120/1	696	1.2	CEILING EXHAUST FAN	GREENHECK: 8P	1 2 3
NOTES: 1: DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR 2: PROVIDE WITH BACKDRAFT DAMPER 3: INTERLOCK WITH LIGHT SWITCH											

ROOF HOOD SCHEDULE						
TAG	CAPACITY (CFM)	SERVICE	MAX PRESS. DROP (IN W.G.)	THROAT SIZE	BASIS OF DESIGN	NOTES
RH-1	210	RELIEF	0.04	8"	GREENHECK:GRSR	1 2
NOTES: 1: PROVIDE ROOF CURB. CURB SHALL PLACE HOOD OPENING A MINIMUM OF 12" ABOVE ROOF DECK. 2: PROVIDE WITH BIRD SCREEN.						

LEGEND - MECHANICAL/ELECTICAL		
ABBR	SYMBOL	DESCRIPTION
A		AMPS
FLA		FULL LOAD AMPS
HZ		HERTZ
KVA		KILOVOLT AMPS
KW		KILOWATT
MCA		MINIMUM CIRCUIT AMPACITY
MOCF		MAXIMUM OVERCURRENT PROTECTION
PH	ϕ	PHASE
V		VOLT/VOLTAGE
W		WATTS

LEGEND - MECHANICAL/PLUMBING		
SYMBOLS	ABBRV.	DESCRIPTION
		PLUMBING FIXTURE DESIGNATION
		CONNECT TO EXISTING
		LIMITS OF DEMOLITION
		REFER TO KEYNOTES
		DUCTWORK - NEW
		DUCT - RETURN OR EXHAUST UP
	EA	EXHAUST AIR
	X	EXISTING
 TYPE		CEILING RETURN AIR REGISTER / GRILLE OR EXHAUST REGISTER / GRILLE
CW		COLD WATER
HW		HOT WATER
ADA		AMERICANS WITH DISABILITIES ACT
ESP		E. TERNAL STATIC PRESSURE
IN		INCHES
WG		WATER COLUMN
W		WASTE
RPM		ROTATIONS PER MINUTE
MAX		MAXIMUM
CFM		CUBIC FEET PER MINUTE
A.F.G		ABOVE FINISHED GRADE
CD		CONDENSATE



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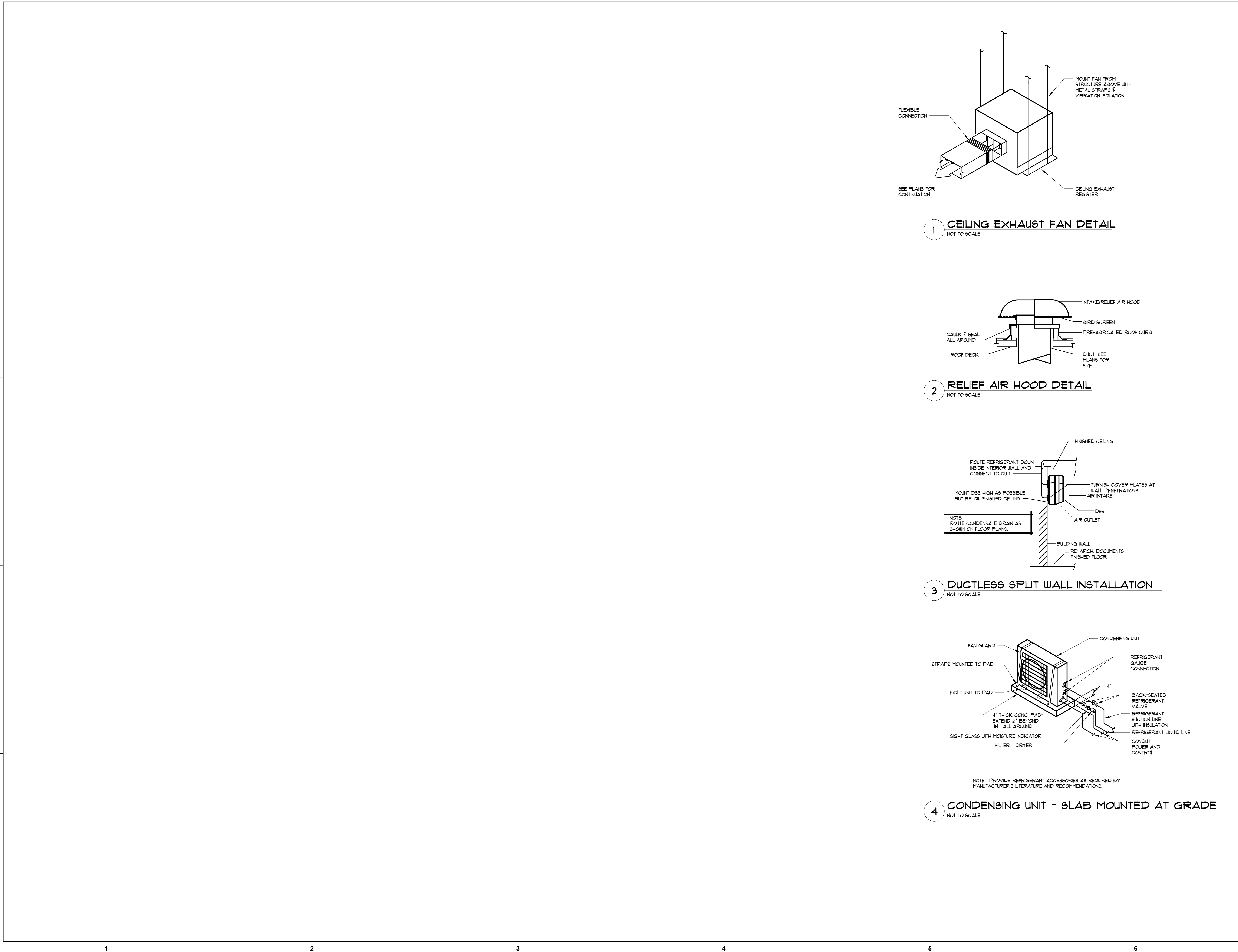
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LEGENDS, SCHEDULES, DETAILS & SPECS - HVAC & PLUMBING

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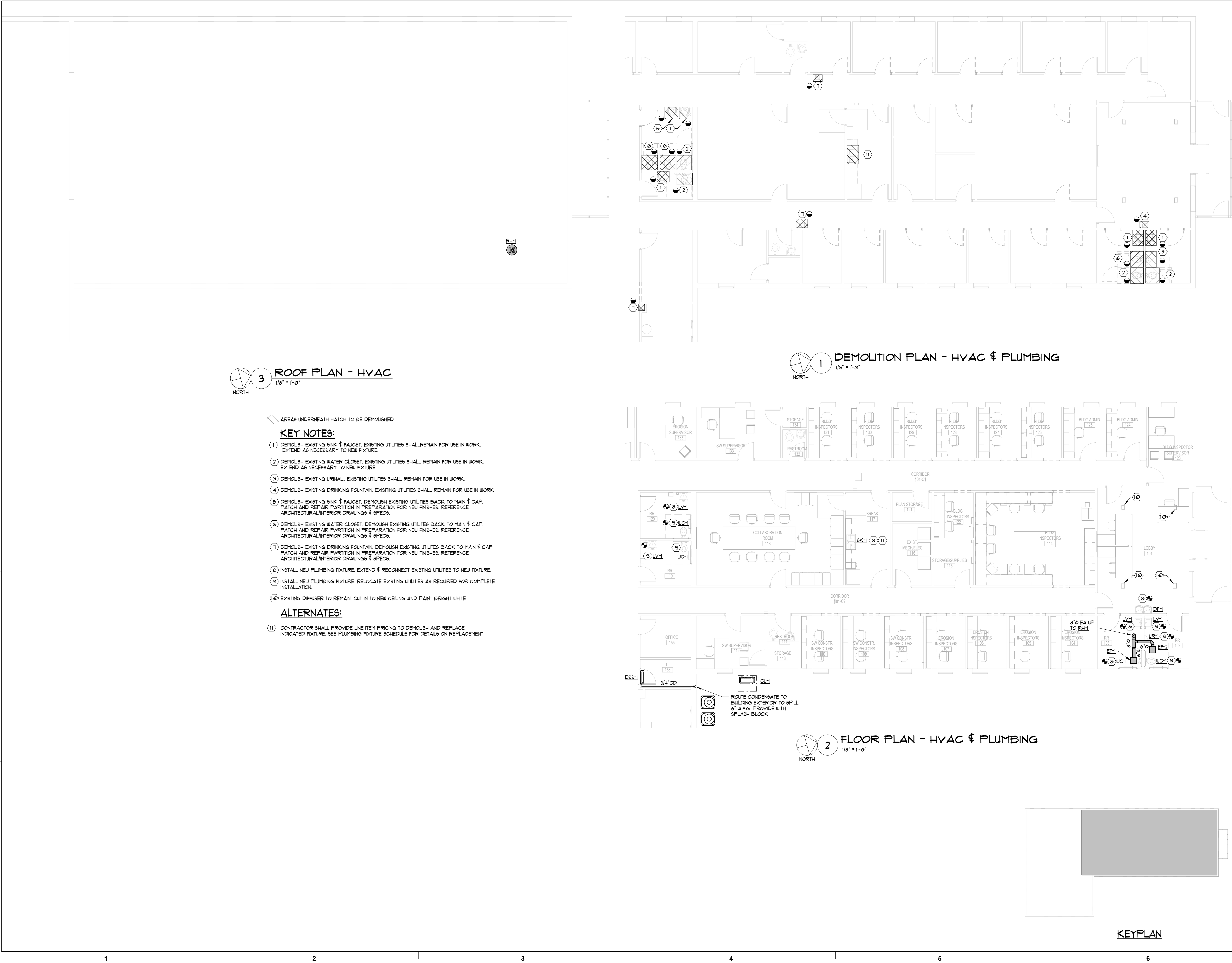
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DETAILS - HVAC & PLUMBING

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ALL WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, AND 2011 NATIONAL ELECTRICAL CODE.

2. THE ELECTRICAL WORK SHALL CONSIST OF ALL LABOR AND MATERIAL TO COMPLETELY INSTALL ALL ELECTRICAL WORKS AS SHOWN ON THESE DRAWINGS.

3. COORDINATE LOCATION OF LIGHT FIXTURES IN AREAS OF MECHANICAL DUCTWORK AND PIPING WITH MECHANICAL CONTRACTOR. RELOCATE LIGHT FIXTURES, WIRING AND CONDUIT IF NECESSARY AS DIRECTED BY THE ARCHITECT/ENGINEER.

4. ALL WORK ASSOCIATED WITH THE SCOPE OF THIS PROJECT INCLUDING EQUIPMENT, ACCESSORIES, DEVICES, SYSTEMS, ETC. SHALL BE COVERED BY A ONE YEAR GUARANTEE WHICH SHALL START AT THE TIME OF FINAL ACCEPTANCE BY THE OWNER. ANY DEFECTS IN PRODUCTS, INSTALLATION, OR WORKSMANSHIP SHALL BE CORRECTED AT NO ADDITIONAL CHARGE AND SHALL INCLUDE ANY NECESSARY REPAIRS TO WALLS, FLOORS, MILLWORK, ETC. WHICH SHALL BE REPAIRED BACK TO NEW AND FINISHED CONDITION.

5. THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF THIS WORK THE CONTRACTOR SHALL SUBMIT "AS BUILT" FRNTS TO THE OWNER.

6. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW THE EXACT ROUTING OR DETAILED FITTINGS. ALL WORK SHALL BE INSTALLED AS A COMPLETE SYSTEM WITH NECESSARY COMPONENTS, FITTINGS, STRAPS, ETC. ALL JUNCTION BOXES AND COMPONENTS SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE.

7. REFER TO THE ENTIRE CONTRACTED DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF DUCTWORK, PIPING AND STRUCTURAL MEMBERS. INSTALL THE ELECTRICAL SYSTEMS SO AS NOT TO INTERFERE WITH THE INSTALLATION OR FUNCTION OF ANOTHER DISCIPLINE WORK.

8. ALL CONDUIT MUST BE CONCEALED ABOVE THE CEILING OR IN THE WALLS UNLESS OTHERWISE NOTED.

9. COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE WITH ALL EQUIPMENT.

10. THE CONTRACTOR SHALL INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GENERALLY ACCEPTED PRACTICES OF FIRST CLASS WORKMANSHIP.

11. PROVIDE A NEW DIRECTORY FOR ALL PANELS. CORRECTLY LABEL ALL CIRCUITS, SPACES AND SPACES PER NEC 408.4.

12. ALL RECESSED LIGHTING FIXTURES SHALL BE FASTENED TO STRUCTURE OR GRID PER N.E.C. 410.

13. ANY CONDUIT, BUSWAY, CABLE TRAY, SLEEVES, ETC. THAT PENETRATE RATED WALLS, CEILINGS AND FLOORS SHALL BE FIRE STOPPED PER CODE.

14. MOUNTING HEIGHTS FOR DEVICES ARE TO BE MEASURED TO THE DEVICE CENTERLINE.

15. ALL BRANCH CIRCUITS SHALL BE WIRED 1/2" C, 2-#12, 1-#12G MINIMUM, UNLESS OTHERWISE NOTED ON THE PLANS. ALL HOMERUNS SHALL BE A MINIMUM 3/4" CONDUIT.

16. MULTIRATE BRANCH CIRCUITS MAY NOT BE USED. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT OF A DIFFERENT PHASE. OVERCURRENT PROTECTION SHALL COMPLY WITH NEC 210.4.

17. PROVIDE A SEPARATE GREEN INSULATED, #12AWG EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE BRANCH CIRCUIT HOMERUN CONDUCTORS. PROVIDE GROUND THROUGH ENTIRE CONDUIT RUN TO THE LAST DEVICE. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL WHICH FEEDS THE EQUIPMENT. PROVIDE GROUNDING PER NEC 250.

18. ALL SWITCHES FOR LIGHTS, FANS, ETC., WHICH ARE SHOWN TO BE MOUNTED IN THE SAME GENERAL AREA, SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED.

19. ARMORED CABLE MAY BE USED IN WALLS AND MILLWORK ONLY AND MUST BE MC TYPE (WITH GROUND). ALL CONDUIT TO AND ABOVE THE PLENUM SHALL BE EMT. ALL HOMERUNS SHALL BE IN CONDUIT RUN FROM THE FIRST DEVICE OR LIGHT FIXTURE TO THE PANEL.

20. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF OUTLETS, LIGHT FIXTURES, AND PARTITIONS. FINISHES FOR DEVICES AND COVERPLATES SHALL BE AS SELECTED BY ARCHITECT.

21. PROVIDE A 2-GANG OUTLET BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR ALL NEW DATA, TELEPHONE AND CABLE OUTLETS. COORDINATE FLASTER RING SIZE WITH TENANT AND CABLE VENDOR.

22. LIGHT FIXTURES SHALL BE AS SCHEDULED, WITH ONLY PRE-APPROVED EXCEL FAMILIES ACCEPTABLE.

23. FLUORESCENT LAMPS SHALL BE RAPID START, 32W, OR LOW MERCURY CONTENT, AND OF NOT LESS THAN 2900 LUMEN OUTPUT UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE.

24. FLUORESCENT BALLASTS SHALL BE ELECTRONIC WITH A MAXIMUM OF 10% THD AND AS MANUFACTURED BY ADVANCE, OSRAM/SYLVANIA, GE/MAGNETIC, OR MOTOROLA.

25. ALL CONDUCTORS SHALL BE COPPER. CONDUCTORS FOR SIZES NO. 10 AND SMALLER SHALL BE TYPE "THIN" OR "THIN/THIN". CONDUCTORS FOR SIZES NO. 8 AND LARGER SHALL BE TYPE "XHHW". SOLID CONDUCTORS TERMINATING IN A BREAKER OR DEVICE SHALL BE UTILIZED FOR WIRE SIZE NO. 12. MINIMUM WIRE SIZE SHALL BE NO. 12.

26. ALL BOXES SHALL BE PRESSED STEEL, SINGLE PIECE (NON-GANGABLE) TYPE.

27. ALL COVER PLATES SHALL BE STAINLESS STEEL.

28. ALL COVER PLATES FOR DEVICES AND JUNCTION BOXES SHALL HAVE CIRCUIT NUMBERS LABELED WITH INDELEIBLE INK MARKER. DEVICE COVERS SHALL BE LABELED ON THE BACK, JUNCTION BOX COVERS SHALL BE LABELED ON THE FRONT.

29. RECEPTABLES SHALL BE 120 VOLT, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROUHART, P66, OR LEVITON. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

SINGLE RECEPTACLE	#HBL5361X	
DUPLEX RECEPTACLE	#HBL5352X	(HBL8300 - HEALTHCARE)
GFCI RECEPTACLE	#GFS352X	(GFR8300 - HEALTHCARE)

30. SWITCHES SHALL BE 120/277V, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROUHART, P66, OR EAGLE. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

SINGLE POLE	#HBL1221X	
THREE WAY	#HBL1223X	
FOUR WAY	#HBL1224X	
(ADD "L" SUFFIC FOR KEYED LOCKING TYPE)		

31. PANELBOARDS, MOTOR STARTERS, SAFETY SWITCHES (HEAVY DUTY), ETC. SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, SQUARE D, SIEMENS, OR CUTLER HAMMER. ALL BREAKERS SHALL BE "BOLT-ON" TYPE.

32. FOR EQUIPMENT THAT IS TO BE WIRED BY ELECTRICAL CONTRACTOR AND FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR SHALL REVIEW ALL SPECIFICATION SECTIONS, EQUIPMENT SCHEDULES, AND/OR DETAILS THROUGHOUT DOCUMENTS THAT PERTAIN TO THIS EQUIPMENT AND INCLUDE ALL WIRING AND DEVICES REFERENCED IN THEIR BIDS. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THIS EQUIPMENT WITH RESPECTIVE CONTRACTOR PRIOR TO ROUGH-IN.

33. ALL ABANDONED WIRE SHALL BE REMOVED.

34. WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVE, NEW OR RELATED WALL OPENING, ETC.) RESULTS IN THE REMOVALS, REFEEDING, OR RELOCATION OF LIGHTING FIXTURES OR ELECTRICAL DEVICES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT AS REQUIRED ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM.

35. RING OUT ALL CIRCUITS IN EXISTING PANEL AFFECTED BY THIS ALTERATION WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS AVAILABLE FOR REUSE, OR PROVIDE NEW BREAKERS. TAG ALL UNUSED CIRCUITS AS SPARE, REPLACE ALL INOPERATIVE OR DEFECTIVE CIRCUIT BREAKERS, AND TIGHTEN ALL CONNECTIONS.

36. WHERE DEMOLITION DISRUPTS ELECTRICAL CONTINUITY OF EXISTING RECEPTABLES/LIGHTS, AND NO RECONNECTION IS SHOWN, RECONNECT TO ITS EXISTING CIRCUIT.

37. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE DRAWINGS. PROVIDE PROPER DIMENSIONS NOT SHOWN PRIOR TO EQUIPMENT FABRICATION. ALL COST FOR MODIFICATIONS OF NEW CONSTRUCTION DUE TO LACK OF CONFIRMATION OF DIMENSIONS BY FIELD MEASUREMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

38. PROVIDE 120 VOLT POWER FOR ALL SMOKE/FIRE DAMPERS AND THE DAMPERS BACK TO THE BUILDING FIRE ALARM SYSTEM SO THAT UPON ACTIVATION OF DUCT MOUNTED SMOKE DETECTOR OR INDIVIDUAL SENSORS ASSOCIATED WITH DAMPER A SIGNAL WILL BE SENT BACK TO THE BUILDING FIRE ALARM SYSTEM INDICATING ALARM AND STATUS OF DAMPER (OPEN/CLOSED). CONTRACTOR SHALL PROVIDE ALL WIRING, DUCT MOUNTED SMOKE DETECTORS, MODULES, RELAY, AND ASSOCIATED EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE EXACT CONNECTION REQUIREMENTS BETWEEN ALL TRADES. (ELECTRICAL MECHANICAL & FIRE PROTECTION). CONTRACTOR SHALL COORDINATE QUANTITIES OF DUCT MOUNTED SMOKE DETECTORS.

39. CONDUCTORS SHALL HAVE COLOR CODED JACKETS THE ENTIRE LENGTH FOR SIZES NO. 6 AND SMALLER. THE CONDUCTORS FOR SIZES NO. 4 AND LARGER SHALL HAVE COLOR CODED MARKING TAPE OR COLOR CODED JACKETS THE ENTIRE LENGTH. COLORS SHALL BE AS FOLLOWS

120/208 VOLT SYSTEM	277/480 VOLT SYSTEM
PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - ORANGE
PHASE C - BLUE	PHASE C - YELLOW
NEUTRAL - WHITE	NEUTRAL - GRAY
GROUND - GREEN	GROUND - GREEN

40. WHERE PHASE MARKING TAPE IS USED IT SHALL BE WRAPPED 2" WIDE AND LOCATED AT TWO (2) LOCATIONS 6" AND 18" FROM THE TERMINATION. PHASE MARKING TAPE FOR THE NEUTRAL AND GROUNDING CONDUCTORS SHALL BE PROVIDED WHERE VISIBLE AT ANY POINT WHERE THE CONDUCTOR IS ACCESSIBLE.

41. FIELD IDENTIFY EXISTING PANELBOARDS THAT ARE MODIFIED PER NEC 408.4(B).

42. PROVIDE ARC-FLASH WARNING LABELS ON ELECTRICAL EQUIPMENT THAT COMPLIES WITH NEC 101.6.

43. PROVIDE CONSPICUOUS AND PERMANENT LABEL ON NEW PANELBOARDS INDICATING AVAILABLE FAULT CURRENT PER NEC 101.24.

ELECTRICAL ABBREVIATIONS	
SYMBOL	DESCRIPTION
AC	ABOVE COUNTER
AF	ABOVE FINISHED FLOOR
BFG	BELOW FINISHED GRADE
E / R	EXISTING / RELOCATED
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
UNO	UNLESS NOTED OTHERWISE
WP	WEATHER PROOF
XFMR	TRANSFORMER

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT ON CENTER (COORD WITH ARCH)
	LED LIGHT FIXTURE	
	EMERGENCY LIGHT FIXTURE	
	CEILING MOUNTED LIGHT FIXTURE	
	CEILING MOUNTED WALL WASH LIGHT FIXTURE	
	EXIT SIGN (PROVIDE FACES AND ARROWS AS SHOWN)	
	WALL MOUNTED EXIT SIGN (PROVIDE FACES AND ARROWS AS SHOWN)	
	CONDUIT RUN CONCEALED IN WALL OR CEILING	
	CONDUIT RUN CONCEALED IN THE FLOOR, UNDERGROUND, OR UNDER THE ELEVATED SLAB	
	CONDUIT RUN EXPOSED. ROUTE PARALLEL/PERPENDICULAR TO WALLS AND STRUCTURE	
	CIRCUITS HOMERUN TO THE PANEL	
	NUMBER OF CONDUCTORS (GROUND NOT SHOWN)	
	FLEXIBLE CONDUIT OR CORD	
	FLYWOOD BACKBOARD. 3/8" (DUNO) X 8" H (NO) X WIDTH AS SHOWN ON PLANS. PAINT WITH FIRE RETARDANT PAINT PRIOR TO INSTALL.	
	DUPLEX AND QUAD RECEPTACLE - WALL MOUNTED	18"
	ISOLATED GROUND DUPLEX RECEPTACLE - WALL MOUNTED	18"
	GFCI DUPLEX AND QUAD RECEPTACLE - WALL MOUNTED	18"
	OUTLET ABOVE THE COUNTER	6" ABOVE COUNTER
	SPECIAL AMP/VOLT RECEPTACLE - WALL MOUNTED	18"
	WEATHER PROOF GFCI DUPLEX RECEPTACLE - WALL MOUNTED	18"
	CEILING MOUNTED DUPLEX RECEPTACLE	
	FLOOR MOUNTED DUPLEX RECEPTACLE	
	FLOOR MOUNTED QUAD RECEPTACLE	
	VOICE AND DATA OUTLET - WALL MOUNTED - PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	18"
	FLOOR VOICE AND DATA OUTLET. PROVIDE 1 1/2" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	
	VOICE OUTLET - WALL MOUNTED - PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	18"
	DATA OUTLET - WALL MOUNTED - PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	18"
	FLOOR BOX RECEPTACLE AND DATA - WIREMOLD # RPB4 SERIES. PROVIDE 1 1/2" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET FOR DATA.	
	TELEVISION CABLE OUTLET - PROVIDE CABLE	18"
	JUNCTION BOX. SIZE AS REQUIRED. PROVIDE CONDUIT AS REQUIRED.	
	JUNCTION BOX - WALL MOUNTED - CONDUIT TO 6" ABOVE ACCESSIBLE CEILING AS REQUIRED	
	3SPST SWITCH / 3-WAY SWITCH / TIMER SWITCH / MOMENTARY CONTACT SWITCH - WALL MOUNTED	48"
	DIMMER SWITCH / LOW VOLTAGE DIMMER SWITCH - WALL MOUNTED (PROVIDE WATTAGE AS REQUIRED)	48"
	MOTOR RATED SWITCH	
	WALL MOUNTED OCCUPANCY SENSOR - WATTSTOPPER W8-301. COLOR TO MATCH STANDARD OUTLETS	48"
	DUAL MOUNTED DUAL RELAY OCCUPANCY SENSOR - WATTSTOPPER DU-200. SET BOTH RELAYS TO AUTO-ON OPERATING MODE. COLOR TO MATCH STANDARD OUTLETS	48"
	CEILING MOUNTED OCCUPANCY SENSOR - WATTSTOPPER CI-200. PROVIDE ACCESSORIES AS REQ'D.	
	POWER PACK FOR OCCUPANCY SENSOR - WATTSTOPPER BI-150.	
	PANELBOARD OR DISTRIBUTION PANEL	
	DISCONNECT (FRAME AND POLES TO MATCH OVER CURRENT PROTECTION REQUIRED PER NEC OR AS NOTED)	
	FIRE ALARM PULL STATION - WALL MOUNTED	48" AFF TO TOP OF BOX
	FIRE ALARM ADA APPROVED AUDIO/VISUAL (1 @CD)	80" AFF TO BOTTOM OF VISUAL
	FIRE ALARM ADA APPROVED AUDIO ONLY	80" AFF TO BOTTOM OF VISUAL
	FIRE ALARM ADA APPROVED VISUAL ONLY (1 @CD)	80" AFF TO BOTTOM OF VISUAL
	FIRE ALARM PULL STATION AT 48" AFF TO TOP OF BOX AND AUDIO/VISUAL AT 80" AFF AT 80" AFF TO BOTTOM OF VISUAL	
	SMOKE DETECTOR - CEILING MOUNTED - QUANTITY AS REQUIRED PER NFPA	
	HEAT DETECTOR - CEILING MOUNTED, WALL MOUNTED	12" BELOW CEILING
	PROVIDE FIRE ALARM CONNECTION TO SPRINKLER FLOW AND TAMPER SWITCHES/VALVES. COORDINATE QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR.	
	CARD READER - WALL MOUNTED - 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING AS REQUIRED.	44" AFF

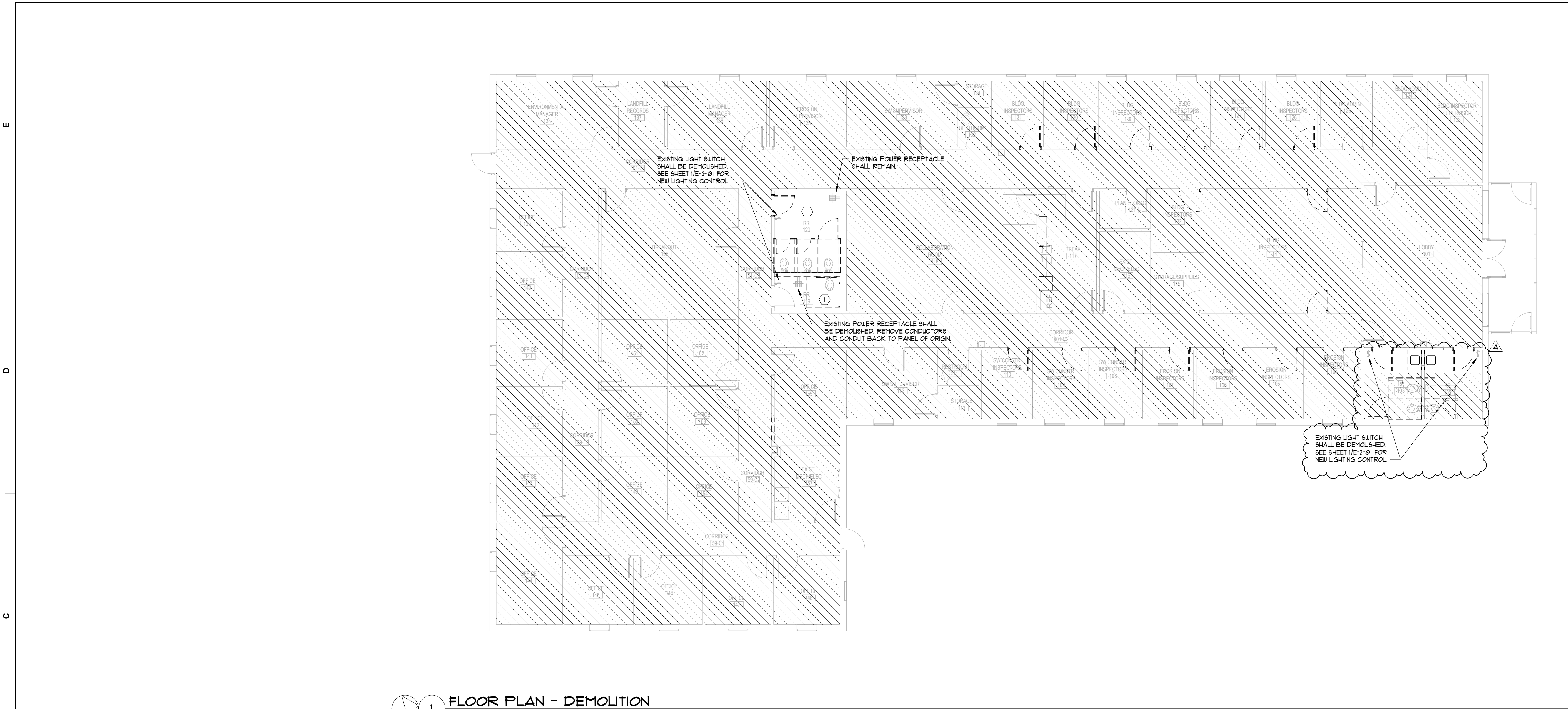


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 **1** FLOOR PLAN - DEMOLITION
1/8" = 1'-0"

 ITEMS UNDERNEATH HATCHING NOT IN SCOPE OF WORK.

DEMOLITION GENERAL NOTES:

- WHERE DEMOLITION DISRUPTS THE ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES / LIGHTS AND NO RECONNECTION IS SHOWN, RECONNECT TO IT'S EXISTING CIRCUIT.
- ALL ABANDONED WIRE SHALL BE REMOVED.
- ALL EXISTING ELECTRICAL PANELS ARE TO REMAIN.
- SEE ELECTRICAL AND LIGHTING PLANS FOR MORE INFORMATION.

DEMOLITION KEY NOTES:

-  ALL EXISTING 2x4 LIGHT FIXTURES IN THE INDICATED RESTROOM SHALL BE REMOVED AND SALVAGED FOR RELOCATION. SEE SHEET 1/E-2-01 FOR NEW LOCATION DENOTED WITH "R".



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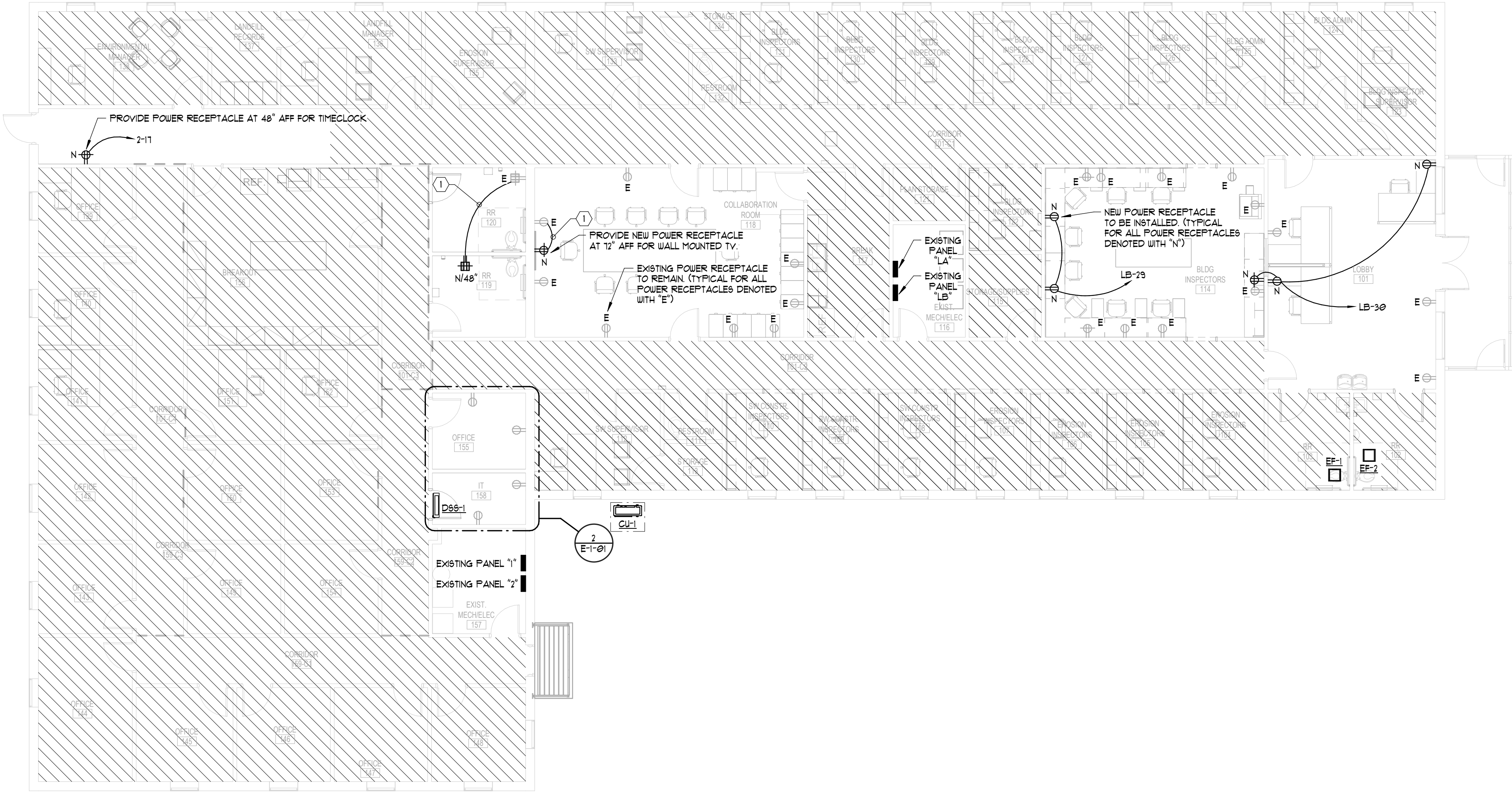
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Sheet Title
**FLOOR PLAN -
ELECTRICAL
DEMOLITION**

Sheet No.
E-0-02
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E
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B
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1 FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

ELECTRICAL GENERAL NOTE:

- CONTRACTOR SHALL PROVIDE NEW UPDATED PANEL SCHEDULES FOR ALL PANELS AFFECTED DURING THIS PROJECT. ALL PANEL SCHEDULES SHALL BE PRINTED LABELS (NOT HAND WRITTEN).
- LABEL PANELBOARDS SCHEDULES PER NEC 408.4.
- ALL NEW BREAKER AIC RATING SHALL MATCH EXISTING PANEL AIC RATING IN ALL ASPECTS.
- REFER TO LV DRAWINGS FOR ALL JUNCTION BOX AND CONDUIT REQUIREMENTS FOR LV & MV EQUIPMENT.

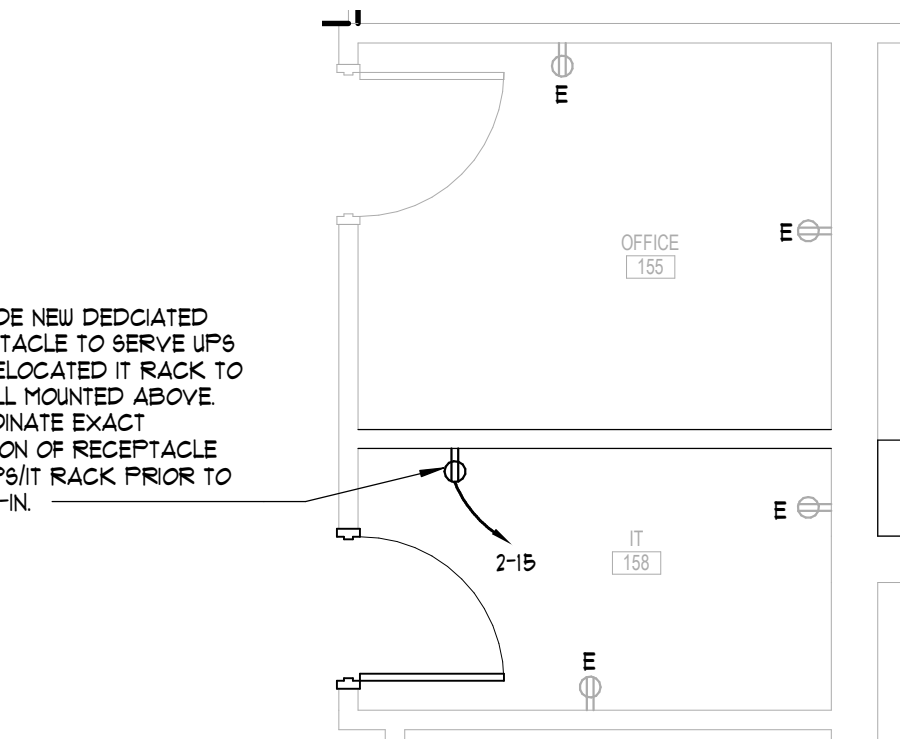
ELECTRICAL KEY NOTES:

- CONNECT NEW RECEPTACLE TO EXISTING 120 VOLT RECEPTACLE CIRCUIT. CONTRACTOR SHALL VERIFY EXISTING CIRCUIT HAS SPARE CAPACITY, MAXIMUM 1500 WATTS PER 120 VOLT, 20 AMP CIRCUIT. PRIOR TO MAKING NEW CONNECTION. IF NO SPARE CAPACITY EXISTS ON EXISTING CIRCUIT, PROVIDE NEW 20A/1P BREAKER AS REQUIRED IN PANEL "2" AND CONNECT RECEPTACLE TO NEW CIRCUIT.

ALL EXISTING POWER RECEPTACLES UNDERNEATH HATCHING TO REMAIN (NOT IN SCOPE OF WORK).

MECHANICAL EQUIPMENT CONNECTION SCHEDULE							
TAG	LOAD	VOLT/ PHASE	CIRCUIT DESIGNATION	BREAKER	BRANCH CIRCUIT	DISCONNECT	NOTES
DSS-1 / CU-1	13A (MCA)	208/1	2-1B,2I	15A/2P	2#12, 1#12G., 3/4"C.	BY MECHANICAL	1
EF-1	13 W	120/1	SEE NOTES	SEE NOTES	2#12, 1#12G., 3/4"C.	MOTOR RATED SWITCH	2
EF-2	23 W	120/1	SEE NOTES	SEE NOTES	2#12, 1#12G., 3/4"C.	MOTOR RATED SWITCH	2

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES	
NUMBER	NOTES
1	INDOOR UNIT (DSS) POWERED FROM OUTDOOR UNIT (CU). CONNECT EXTERNAL CONDENSATE PUMP TO NEAREST AVAILABLE 120 VOLT, 20 AMP CONVENIENCE RECEPTACLE CIRCUIT. COORDINATE EXACT LOCATION OF CONDENSATE PUMP WITH MECHANICAL CONTRACTOR.
2	EXHAUST FAN TO BE CONTROLLED BY DUAL RELAY WALL MOUNTED OCCUPANCY SENSOR. FAN SHALL BE CONNECTED TO THE 120 VOLT LIGHTING CIRCUIT SERVING THE RESTROOM, AND SHALL TURN ON AND OFF WITH THE LIGHTS VIA OCCUPANCY SENSOR. FAN AND LIGHTS SHALL BE CONNECTED TO INDEPENDENT RELAYS FOR INDIVIDUAL MANUAL CONTROL.



2 ENLARGED IT ROOM - ELECTRICAL
1/4" = 1'-0"



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FLOOR PLAN -
ELECTRICAL

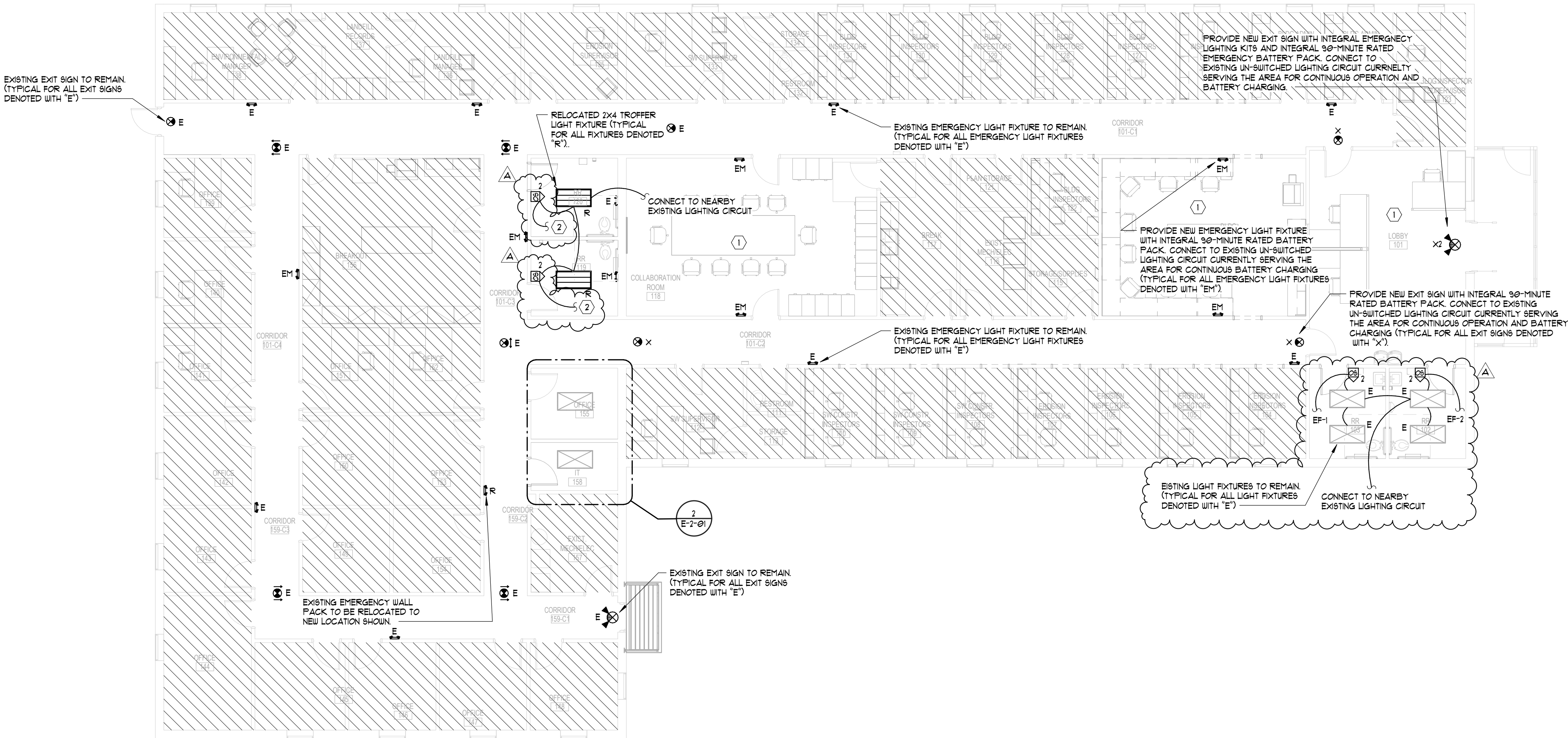
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E-1-01

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1 FLOOR PLAN - LIGHTING
1/8" = 1'-0"

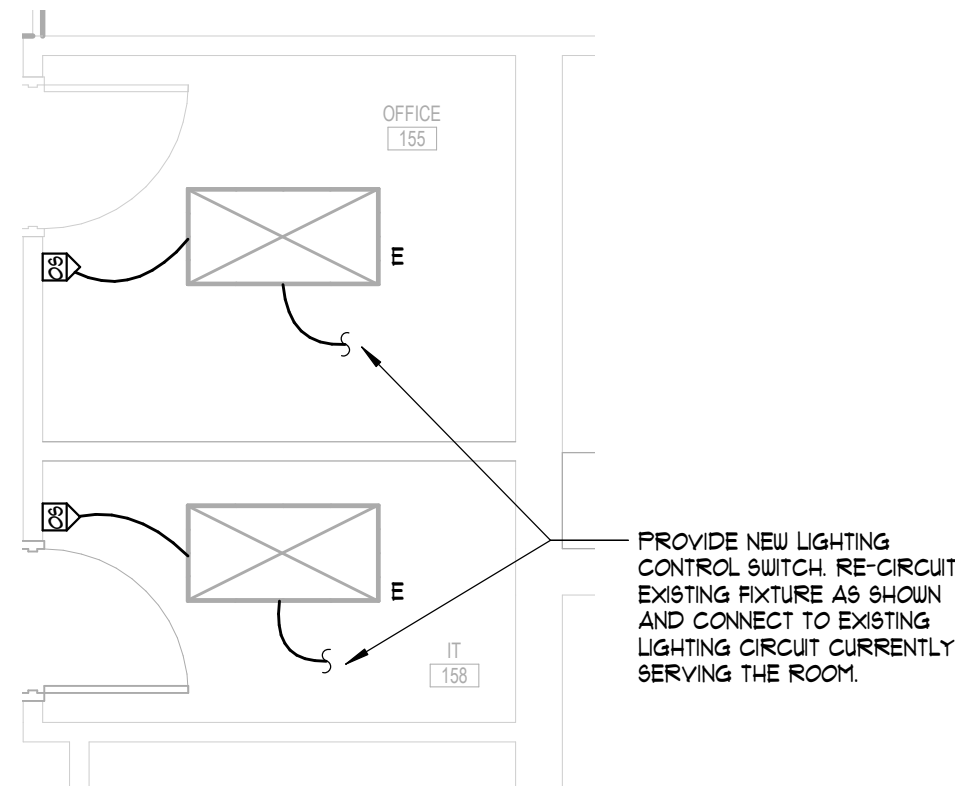
ALL EXISTING LIGHT FIXTURES AND CONTROLS UNDERNEATH HATCHING TO REMAIN (NOT IN SCOPE OF WORK).

LIGHTING GENERAL NOTES:

- CONTRACTOR SHALL VERIFY PROPER WORKING ORDER OF ALL EXISTING LIGHT FIXTURES IN THE AREA OF WORK. REPAIR / REPLACE AS NECESSARY. PROVIDE UNIT PRICING FOR REPLACEMENT FIXTURES AT TIME OF BID.
- CONTRACTOR SHALL CLEAN AND RE-LAMP ALL EXISTING LIGHT FIXTURES IN THE AREA OF WORK PRIOR TO TURNING OVER TO OWNER.
- ALL EXISTING LIGHT FIXTURES AND CONTROLS IN THE CORRIDORS SHALL REMAIN.
- WHERE EXISTING/RELOCATED/NEW FIXTURES AS SHOWN TO BE RE-CONNECTED TO EXISTING LIGHTING CIRCUITS AND CONTROL, THE CONTRACTOR SHALL FIELD VERIFY THE CIRCUIT LOAD AND AVAILABLE AMPACITY PRIOR TO CONNECTING FIXTURES. IF EXISTING CIRCUIT DOES NOT HAVE SUFFICIENT CAPACITY CONTRACTOR SHALL TIE INTO NEAREST AVAILABLE CIRCUIT WITH PROPER VOLTAGE AND AVAILABLE AMPACITY OR PROVIDE NEW CIRCUIT FROM NEAREST PANEL.
4.1. 120 VOLT LIGHTING CIRCUITS SHALL HAVE A MAXIMUM OF 1500 WATTS.
- CONTRACTOR SHALL VERIFY THAT ALL EXISTING EXIT SIGNS AND EMERGENCY LIGHT FIXTURES ARE IN GOOD OPERATING CONDITION AND THEY MEET ALL LOCAL AND JURISDICTIONAL CODES. REPAIR/REPLACE AS NECESSARY. PROVIDE UNIT PRICING FOR REPLACEMENT OF EXIT SIGNS AND EMERGENCY LIGHT FIXTURES AT TIME OF BID.

LIGHTING KEY NOTES:

- ALL EXISTING LIGHT FIXTURES AND CONTROLS IN THE INDICATED AREA SHALL REMAIN.
- EXISTING EXHAUST FAN SERVING THE RESTROOM SHALL BE CONTROLLED BY DUAL RELAY WALL MOUNTED COUPLER. EXHAUST FAN AND LIGHTING WILL TURN ON AND OFF TOGETHER. FAN AND LIGHTS SHALL BE CONNECTED TO INDEPENDENT RELAYS FOR INDIVIDUAL MANUAL CONTROL.



2 ENLARGED IT ROOM - LIGHTING
1/4" = 1'-0"



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FLOOR PLAN - LIGHTING

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EXISTING PANELBOARD "2" SCHEDULE															
VOLTAGE:		208	Y / 120	3 PHASE 4 WIRE			MAIN:		200A MLO			MOUNTING:			
BUS SIZE:		225	AMPS	FAULT DUTY:			EXISTING			AIC	SURFACE				
CKT	DESCRIPTION	LOAD	NOTE	BKR	PHASE			BKR	NOTE	LOAD	DESCRIPTION	CKT			
NO					A	B	C					NO			
1	HALL LIGHTS	0.0	1	20/1	0.0			20/1	1	0.0	EXIT LIGHTS	2			
3	HALL LIGHTS	0.0	1	20/1		0.0		20/1	1	0.0	PANEL LGT & WATER COOLER	4			
5	SPARE	0.0		20/1			0.0	20/1	1	0.0	1ST FURNACE	6			
7	A/C UNIT	0.0	1	60/2	0.0			20/1	1	0.0	OFFICE	8			
9		0.0				0.0			0.0	SPACE	10				
11	A/C UNIT	0.0	1	50/2			0.0			0.0	SPACE	12			
13		0.0			0.0			0.0	SPACE	14					
15	UPS RECEPTACLE	1.0	2	20/1		1.0				0.0	SPACE	16			
17	TIMECLOCK RECEPTACLE	0.2	2	20/1			0.2			0.0	SPACE	18			
19	DSS-1 / CU-1	1.1	2	15/2	1.1					0.0	SPACE	20			
21		1.1				1.1			0.0	SPACE	22				
23	SPACE	0.0					0.0			0.0	SPACE	24			
25	SPACE	0.0			0.0					0.0	SPACE	26			
27	SPACE	0.0				0.0				0.0	SPACE	28			
29	SPACE	0.0					0.0			0.0	SPACE	30			
31	SPACE	0.0			0.0					0.0	SPACE	32			
33	SPACE	0.0				0.0				0.0	SPACE	34			
35	SPACE	0.0					0.0			0.0	SPACE	36			
37	SPACE	0.0			0.0					0.0	SPACE	38			
39	SPACE	0.0				0.0				0.0	SPACE	40			
41	SPACE	0.0					0.0			0.0	SPACE	42			
					1.1	2.1	0.2								
LIGHTING	0.0	x 125% =	0.0		TOTAL BUS KVA			NOTES:							
RECEPTACLES	1.2	x nec 220.44	1.2		A	B	C	1	EXISTING BREAKER AND LOAD ON THE CIRCUIT TO REMAIN						
MOTORS	0.0	x 100%	0.0		1.1	2.1	0.2								
A/C:	2.2	x 100%	2.2												
HEATING	0.0	x 100%	0.0								2	PROVIDE NEW CIRCUIT BREAKER. NEW CIRCUIT BREAKER TO MATCH EXISTING IN ALL ASPECTS.			
KITCHEN	0.0	x nec 220.56	0.0												
MISC.	0.0	x 100%^	0.0												
TOTAL KVA	3.4	CALC KVA	3.4												
TOTAL AMPS	9.4	CALC AMPS	9.4												

EXISTING PANELBOARD "LB" SCHEDULE													
VOLTAGE:		208	Y / 120	3 PHASE 4 WIRE		MAIN:		200A MCB		MOUNTING:			
BUS SIZE:		225	AMPS	FAULT DUTY:		EXISTING			AIC	SURFACE			
CKT	DESCRIPTION	LOAD	NOTE	BKR	PHASE			BKR	NOTE	LOAD	DESCRIPTION	CKT	
NO					A	B	C					NO	
1	FRONT RESTROOM	0.0	1	20/1	0.0			50/3	1	0.0	AIR CONDITIONER	2	
3	OFFICE #2	0.0	1	20/1		0.0				0.0		4	
5	FRONT WATER COOLER	0.0	1	20/1			0.0			0.0		6	
7	OFFICE #1	0.0	1	20/1	0.0			20/1	1	0.0	CONF. ROOM LIGHTS	8	
9	OFFICE #3	0.0	1	20/1		0.0		20/1	1	0.0	CONF. ROOM REC	10	
11	OFFICE #5	0.0	1	20/1			0.0	20/1	1	0.0	OFFICE #7	12	
13	OFFICE #4	0.0	1	20/1	0.0			20/1	1	0.0	BATH AND STORAGE	14	
15	COMPUTER CIR	0.0	1	20/1		0.0		20/1	1	0.0	HALL WATER COOLER	16	
17	FRONT OFFICE	0.0	1	20/1			0.0	20/1	1	0.0	OFFICE #8	18	
19	OFFICE #9	0.0	1	20/1	0.0			20/1	1	0.0	OFFICE #6	20	
21	LOBBY LIGHTS	0.0	1	20/1		0.0		20/1	1	0.0	MICROWAVE	22	
23	HALL LIGHTS	0.0	1	20/1			0.0	20/1	1	0.0	FRIDGE & KIT COUNTER	24	
25	COMPUTER BACK	0.0	1	20/1	0.0			20/1	1	0.0	KIT. LIGHTS & MECH ROOM	26	
27	EXISTING LOAD	0.0	1	20/1		0.0		20/1	1	0.0	EXISTING LOAD	28	
29	BLDG INSPECTOR REC.	0.5	2	20/1			1.0	20/1	2	0.5	LOBBY RECEPTACLES	30	
					0.0	0.0	1.0						
LIGHTING	0.0	x 125% =	0.0		TOTAL BUS KVA			NOTES:					
RECEPTACLES	1.0	x nec 220.44	1.0		A	B	C	1	EXISTING BREAKER AND LOAD ON THE CIRCUIT TO REMAIN				
MOTORS	0.0	x 100%	0.0		0.0	0.0	1.0						
A/C:	0.0	x 100%	0.0										
HEATING	0.0	x 100%	0.0					2	PROVIDE NEW CIRCUIT BREAKER. NEW CIRCUIT BREAKER TO MATCH EXISTING IN ALL ASPECTS.				
KITCHEN	0.0	x nec 220.56	0.0										
MISC.	0.0	x 100% ^A	0.0										
TOTAL KVA	1.0	CALC KVA	1.0										
TOTAL AMPS	2.8	CALC AMPS	2.8										



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ELECTRICAL PANEL
SCHEDULES

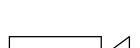
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LOW VOLTAGE ELECTRICAL CONDUIT ROUGH-IN LEGEND	
SYMBOL	DESCRIPTION
	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BACKBOX WITH 1-GANG TRIM RING FLUSH-MOUNTED IN WALL AT DATA OUTLET LOCATION WITH ONE (1)-1" CONDUIT FROM BOX TO ACCESSIBLE CEILING SPACE. SEE DETAILS SHEETS. COORDINATE MOUNTING HEIGHT WITH ELECTRICAL OUTLETS.
	ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT SYSTEM ABOVE FINISHED CEILING AS REQUIRED TO SUPPORT 20' CABLE SERVICE LOOP AS SHOWN IN DETAILS.
	ELECTRICAL CONTRACTOR TO PROVIDE 1-1/4" CONDUIT FROM FLOOR BOX LOCATION TO ACCESSIBLE CEILING SPACE. ALL CONDUITS BELOW GRADE SHALL BE SCHEDULE 40 PVC.
	SEE CAMERA SCHEDULE FOR REFERENCE TO MOUNTING DETAILS.
	SEE INSTALLATION DETAILS.
	SEE INSTALLATION DETAILS.
	SEE INSTALLATION DETAILS.
	SEE INSTALLATION DETAILS.
	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BACKBOX WITH 1-GANG TRIM RING FLUSH-MOUNTED IN WALL AT 48" AFF TO TOP OF BOX WITH ONE (1)-3/4" CONDUIT FROM BOX TO ACCESSIBLE CEILING SPACE.
	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BACKBOX WITH 1-GANG TRIM RING FLUSH-MOUNTED IN WALL AT 12" BELOW CEILING WITH ONE (1)-3/4" CONDUIT FROM BOX TO ACCESSIBLE CEILING SPACE.
	ELECTRICAL CONTRACTOR TO PROVIDE 4" SQUARE BACKBOX WITH 1-GANG TRIM RING FLUSH-MOUNTED IN WALL AT 42" AFF WITH ONE (1)-3/4" CONDUIT FROM BOX TO ACCESSIBLE CEILING SPACE.
	ELECTRICAL CONTRACTOR TO PROVIDE ONE (1)-3/4" CONDUIT FROM BOX TO ACCESSIBLE CEILING SPACE. SEE FLOOR PLAN.
	ELECTRICAL CONTRACTOR PROVIDE 2-GANG BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING. PROVIDE WEATHERPROOF BOX FOR EXTERIOR LOCATION.
	ELECTRICAL CONTRACTOR PROVIDE 2-GANG BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING. PROVIDE WEATHERPROOF BOX FOR EXTERIOR LOCATION.

ABBREVIATIONS	
	DESCRIPTION
AV	AUDIO-VISUAL
EC	ELECTRICAL CONTRACTOR
LAN	LOCAL AREA NETWORK
NET	FACILITY COMPUTER NETWORK
OFE	OWNER FURNISHED EQUIPMENT
POE	POWER OVER ETHERNET
PROVIDE	FURNISH AND INSTALL
PT	POKE-THROUGH DEVICE
RJ45	EIGHT POSITION MODULAR PLUG AND JACK UTILIZED FOR TWISTED-PAIR CABLE CONNECTIONS
SC	FIBER OPTIC CABLE CONNECTOR FORM FACTOR
TBD	TO BE DETERMINED
UNO	UNLESS OTHERWISE NOTED
VOIP	VOICE OVER INTERNET PROTOCOL (IP) TELEPHONE SYSTEM
WP	WEATHER PROOF

LOW VOLTAGE DEVICE LEGEND	
SYMBOL	DESCRIPTION
	DATA OUTLET. ELEVATION IS AT 18" AFF OR AS NOTED ON PLANS. PROVIDE TWO (2) CATEGORY 6 AUG. UTP CABLES TO LOCAL TELECOM ROOM. TERMINATE CABLES ON CAT6 PATCHBAY. • 'N' SUBSCRIPT WHERE USED DETAILS NUMBER OF DATA CIRCUITS. PROVIDE DEFAULT QUANTITY OF TWO CIRCUIT WHEN SUBSCRIPT NOT PRESENT. • 'U' SUBSCRIPT WHERE USED DETAILS ONE DATA CIRCUIT INSTALLED AT 48" TO TOP OF DEVICE FOR WALL PHONE OR INTERCOM CALL SWITCH.
	DATA OUTLET FOR WIRELESS ACCESS POINT. PROVIDE TWO (2) CATEGORY 6 AUG. UTP CABLE FROM STATION OUTLET MOUNTED IN CEILING SPACE TO LOCAL IDF ROOM. INSTALL OUTLET IN SURFACE-MOUNTED BOX ATTACHED TO STRUCTURE LABEL CABLE FOR DATA USE AND TERMINATE ON NEW 6 PATCH PANEL, GROUPED SEPARATELY FROM HORIZONTAL DATA CIRCUITS. PROVIDE 20'-0" SERVICE LOOP AT CEILING.
	DATA OUTLET INSTALLED IN FLOOR BOX OR POKE-THRU DEVICE. SEE ELECTRICAL DRAWING FOR DEVICE SPECIFICATIONS. PROVIDE TWO (2) CATEGORY 6/23 AUG. UTP CABLE FROM STATION OUTLET TO LOCAL TELECOM ROOM. TERMINATE ON CAT6 PATCH PANEL. • 'N' SUBSCRIPT WHERE USED DETAILS NUMBER OF DATA CIRCUITS. PROVIDE DEFAULT QUANTITY OF TWO CIRCUIT WHEN SUBSCRIPT NOT PRESENT.
	AIPHONE MASTER INTERCOM STATION
	CARD READER INSTALLED AT 48" AFF TO TOP OF DEVICE. SECURITY CONTRACTOR TO FURNISH, INSTALL, AND PROGRAM CARD READER.
	ELECTRONIC DOOR HARDWARE WITH DOOR POSITION SWITCH SHALL BE WIRED AND INTEGRATED INTO ACCESS CONTROL SYSTEM BY SECURITY CONTRACTOR. DOOR HARDWARE CONTRACTOR TO PROVIDE BUILT-IN REQUEST TO EXIT DEVICE, AND POWER SUPPLY FOR ELECTRIFIED PANIC HARDWARE. SECURITY CONTRACTOR TO PROVIDE POWER SUPPLIES FOR REMAINING LOW VOLTAGE DOOR HARDWARE.
	ELECTRO-MAGNETIC DOOR HARDWARE WITH DOOR POSITION SWITCH SHALL BE WIRED AND INTEGRATED INTO ACCESS CONTROL SYSTEM BY SECURITY CONTRACTOR. DOOR HARDWARE CONTRACTOR TO PROVIDE MAGNETIC LOCK AND POWER SUPPLY. SECURITY CONTRACTOR TO PROVIDE POWER SUPPLIES FOR REMAINING LOW VOLTAGE DOOR HARDWARE.
	DOOR POSITION SWITCH TO BE FURNISHED, INSTALLED, AND PROGRAMMED BY THE SECURITY CONTRACTOR.
	REQUEST TO EXIT PUSHBUTTON FURNISHED, INSTALLED, AND PROGRAMMED BY THE SECURITY CONTRACTOR.
	TILE CEILING SPEAKER ASSEMBLY. CABLING PER SPECIFICATIONS.
	SECURITY CAMERA. PROVIDE ONE (1) CATEGORY 6 CABLE.
	SECURITY INTERIOR DOME MULTI-SENSOR CAMERA WITH EXTENDED VIEWING ANGLES. PROVIDE ONE (1) CATEGORY 6 CABLE.
	INTERCOM CALL STATION PROVIDE ONE (1) CATEGORY 6 CABLE.
	MOTION DETECTOR, WALL MOUNTED. CABLING AS PER SPECIFICATIONS.
	ALARM CONTROL KEY PAD, WALL MOUNTED. CABLING AS PER SPECIFICATIONS.
	DOOR RELEASE BUTTON. SEE ACCESS CONTROL FUNCTIONAL DIAGRAM FOR CABLING.
	PAGING HORN LOUDSPEAKER
	SURFACE-MOUNTED INTERCOM SPEAKER

LOW VOLTAGE LEGEND NOTES

- A. ELECTRICAL CONTRACTOR TO PROVIDE PULL STRINGS IN ALL CONDUITS.
- B. ELECTRICAL CONTRACTOR TO TERMINATE ALL CONDUIT STUB-OUTS AND SLEEVES WITH PLASTIC BUSHINGS.
- C. NO MORE THAN TWO (2) QUARTER BENDS SHALL BE INSTALLED BETWEEN PULL BOXES.
- D. ALL LOW VOLTAGE CABLES NOT INSTALLED IN CONDUIT TO BE SUPPORTED BY J-HOOKS INSTALLED ON 4' CENTERS. ALL CABLES NOT IN CONDUIT TO BE PLENUM RATED.

PROJECT SCOPE

- A. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RACEWAY SYSTEMS AND ASSOCIATED POWER REQUIREMENTS SHOWN IN LOW VOLTAGE DRAWINGS.
- B. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CABLE AND EQUIPMENT REQUIREMENTS SHOWN IN LOW VOLTAGE DRAWINGS.
- C. GENERAL CONTRACTOR TO PROVIDE ALL SYSTEM EQUIPMENT NOTED IN DRAWINGS. OWNER TO FURNISH WALL-MOUNTED TELECOM RACK FOR INSTALLATION BY GENERAL CONTRACTOR.



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LOW VOLTAGE LEGEND

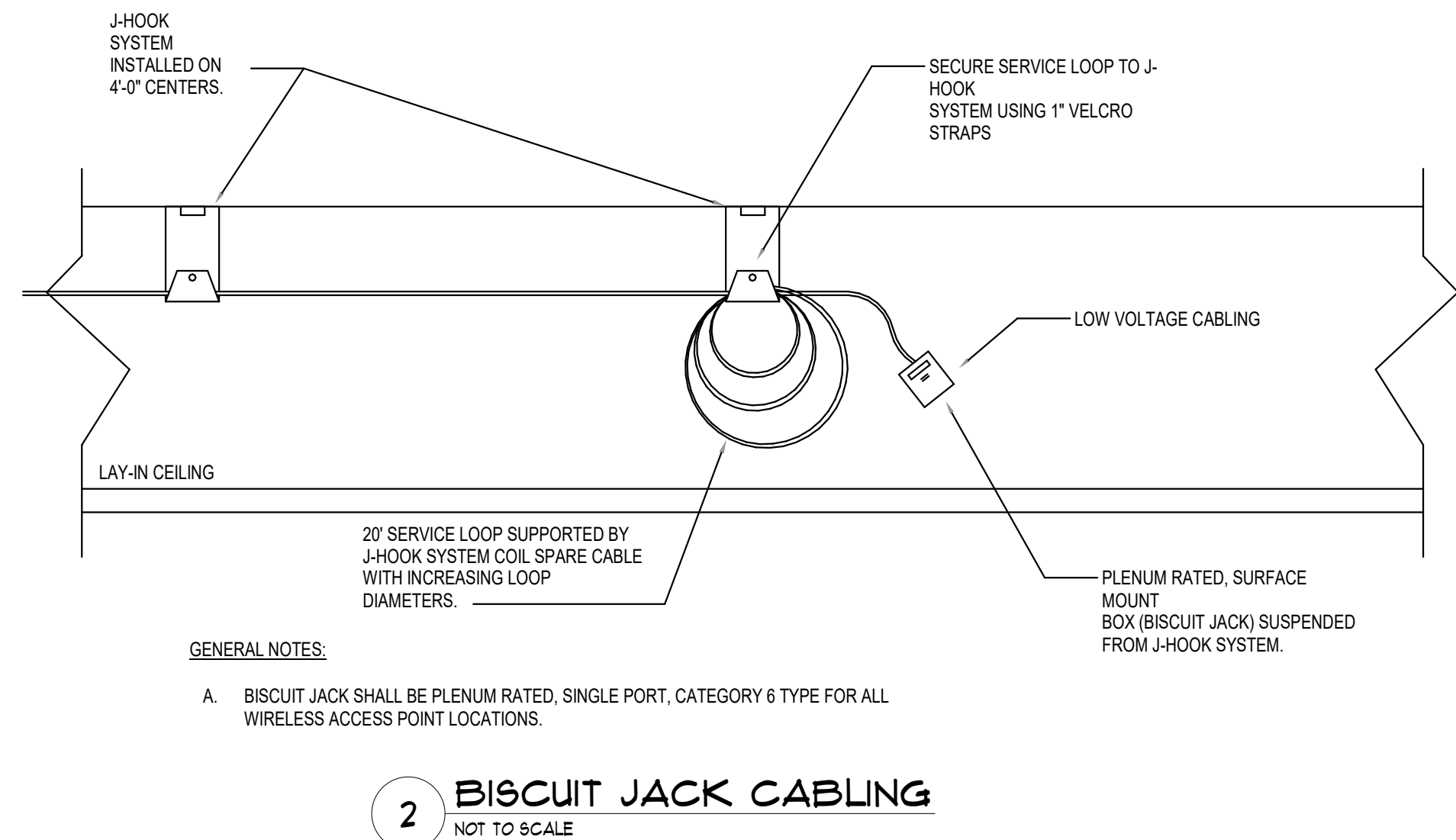
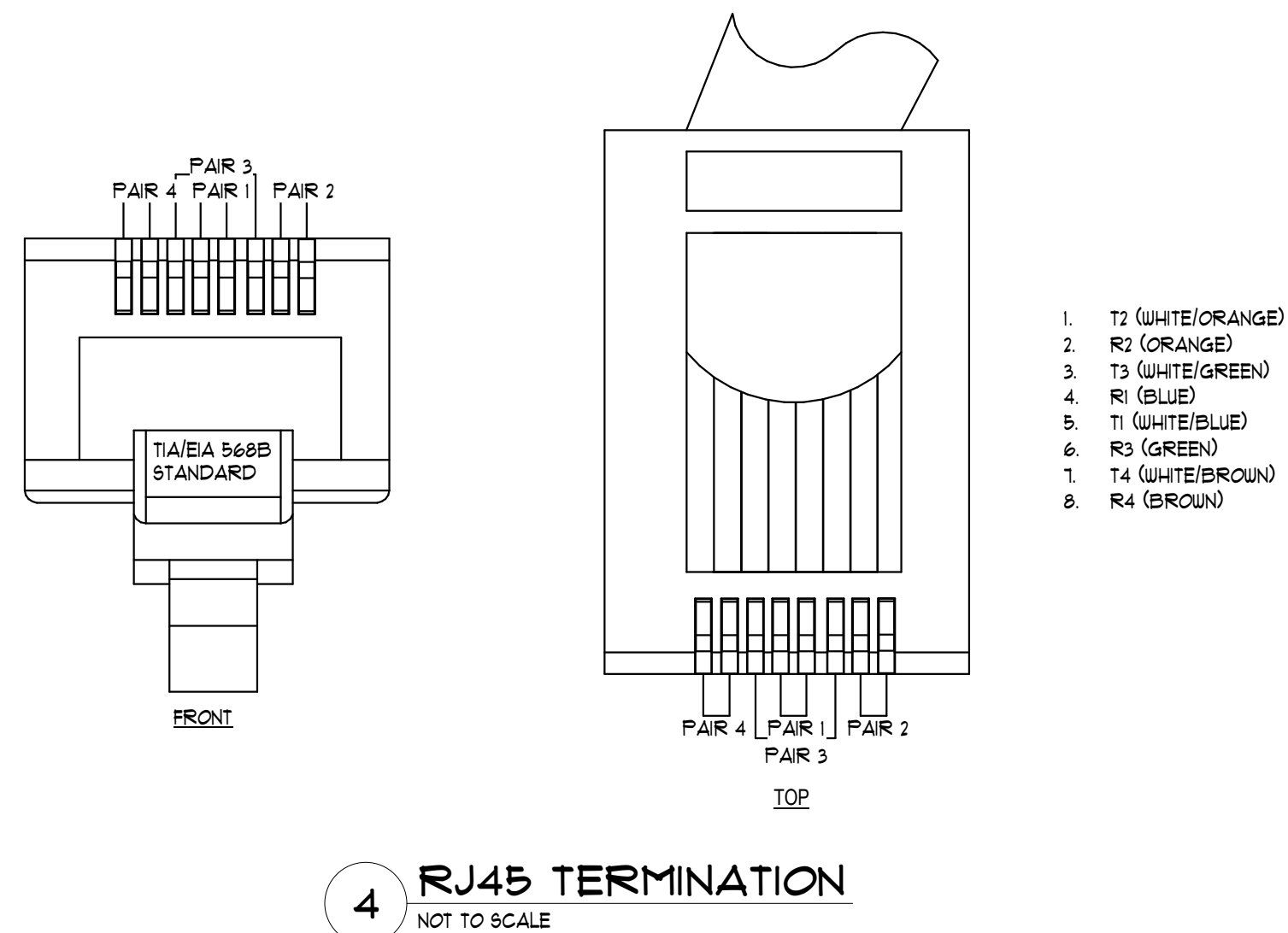
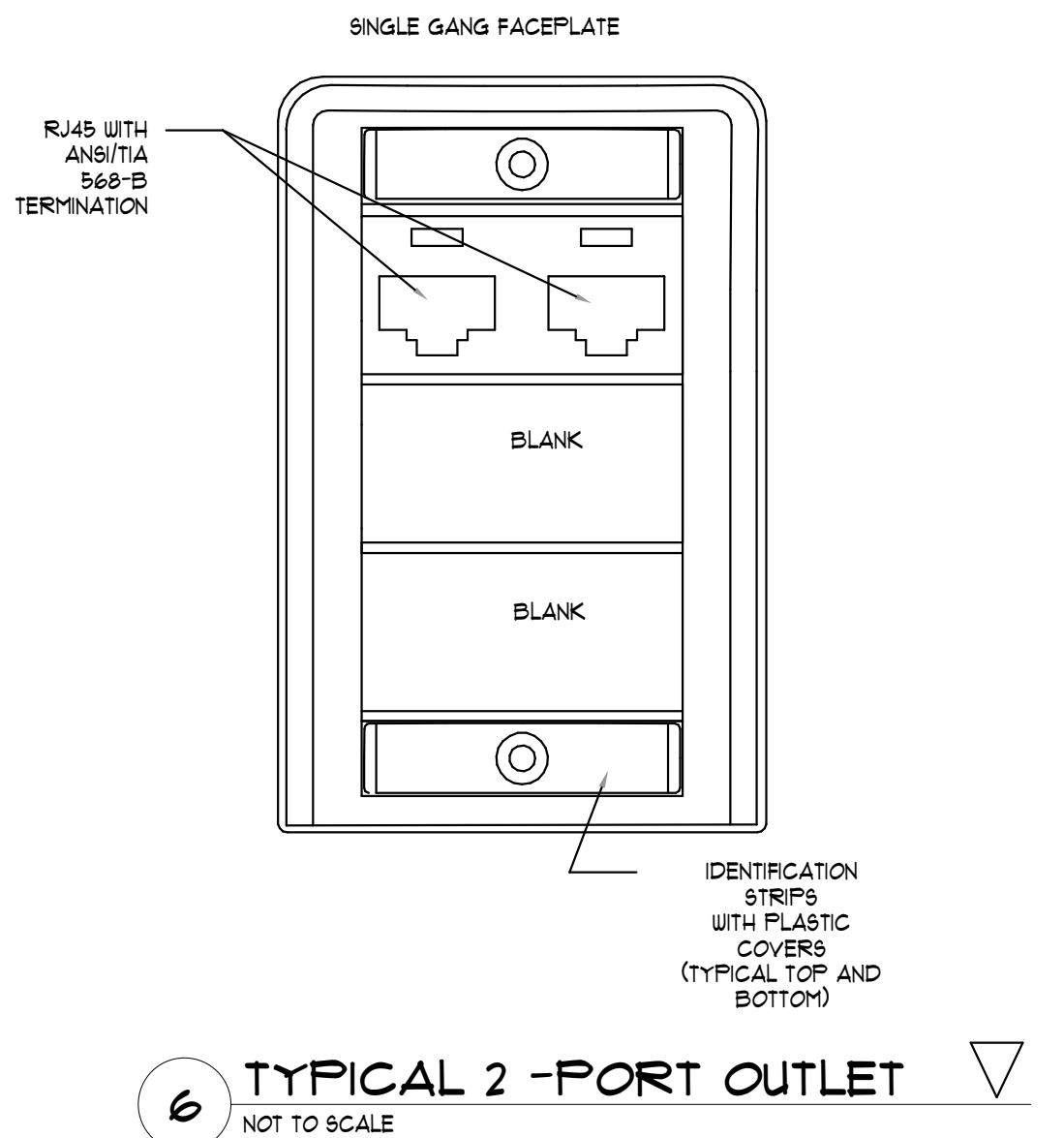
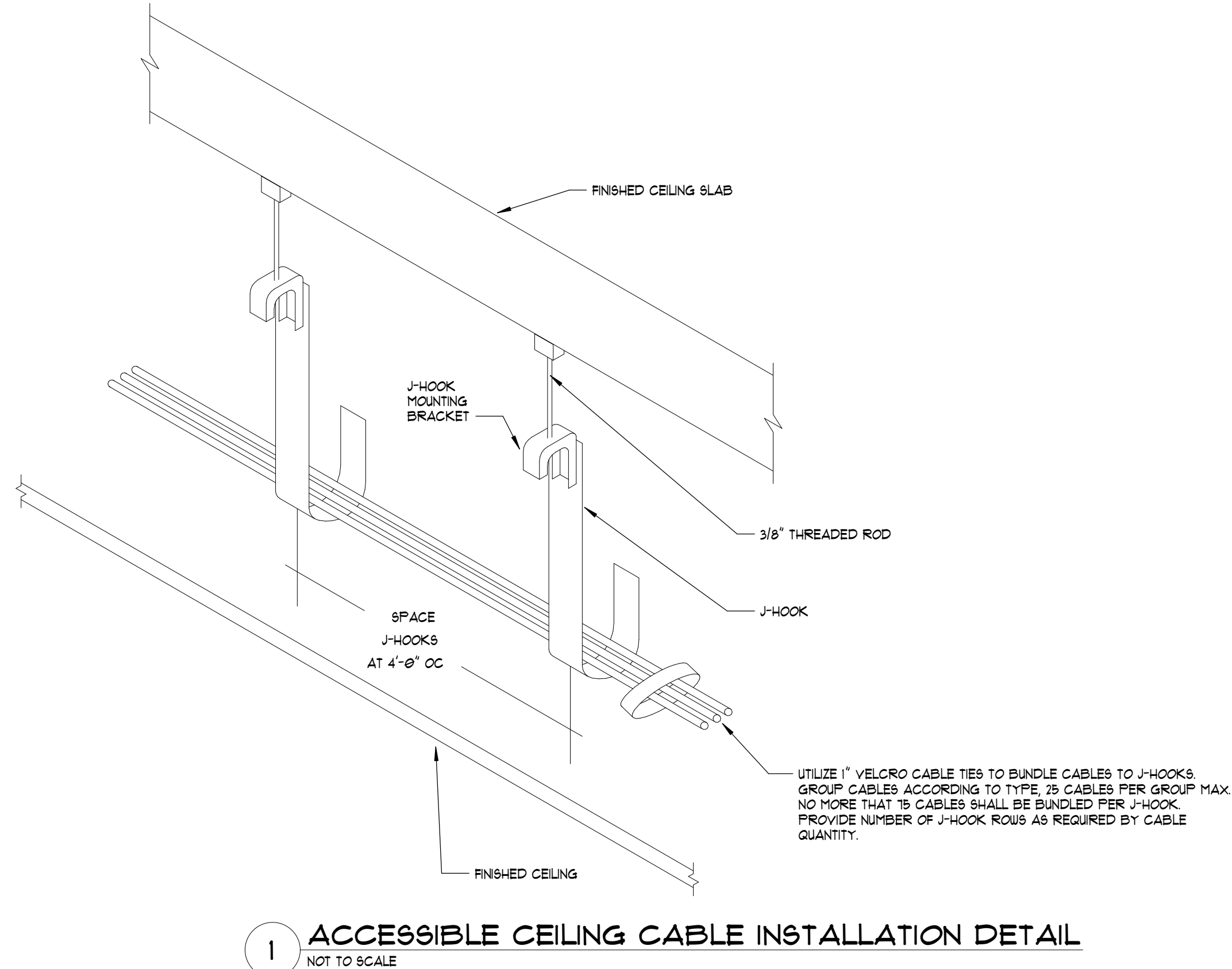
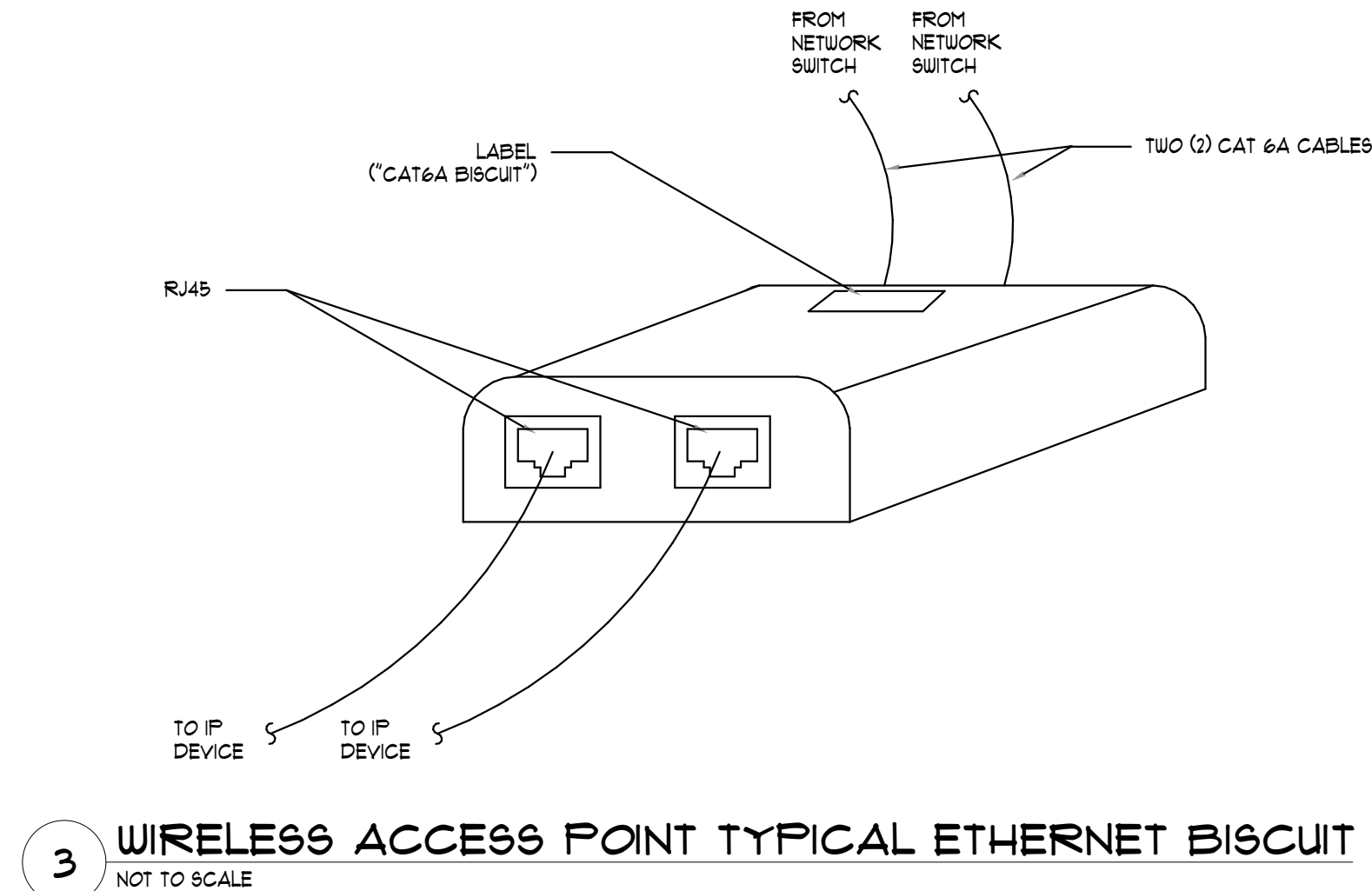
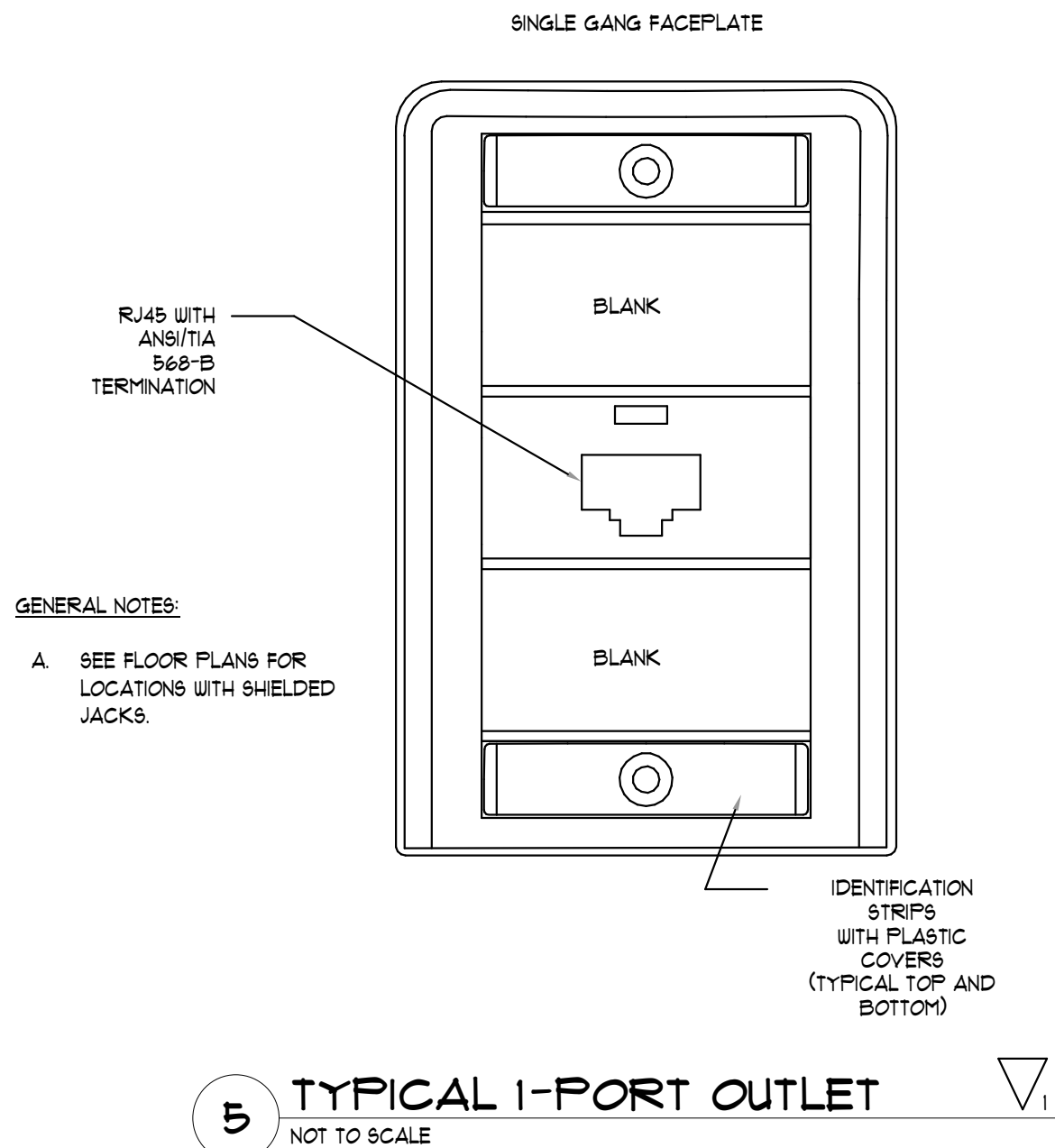
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04/02/2020

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DETAILS

Sheet No.

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E
D
C
B
A

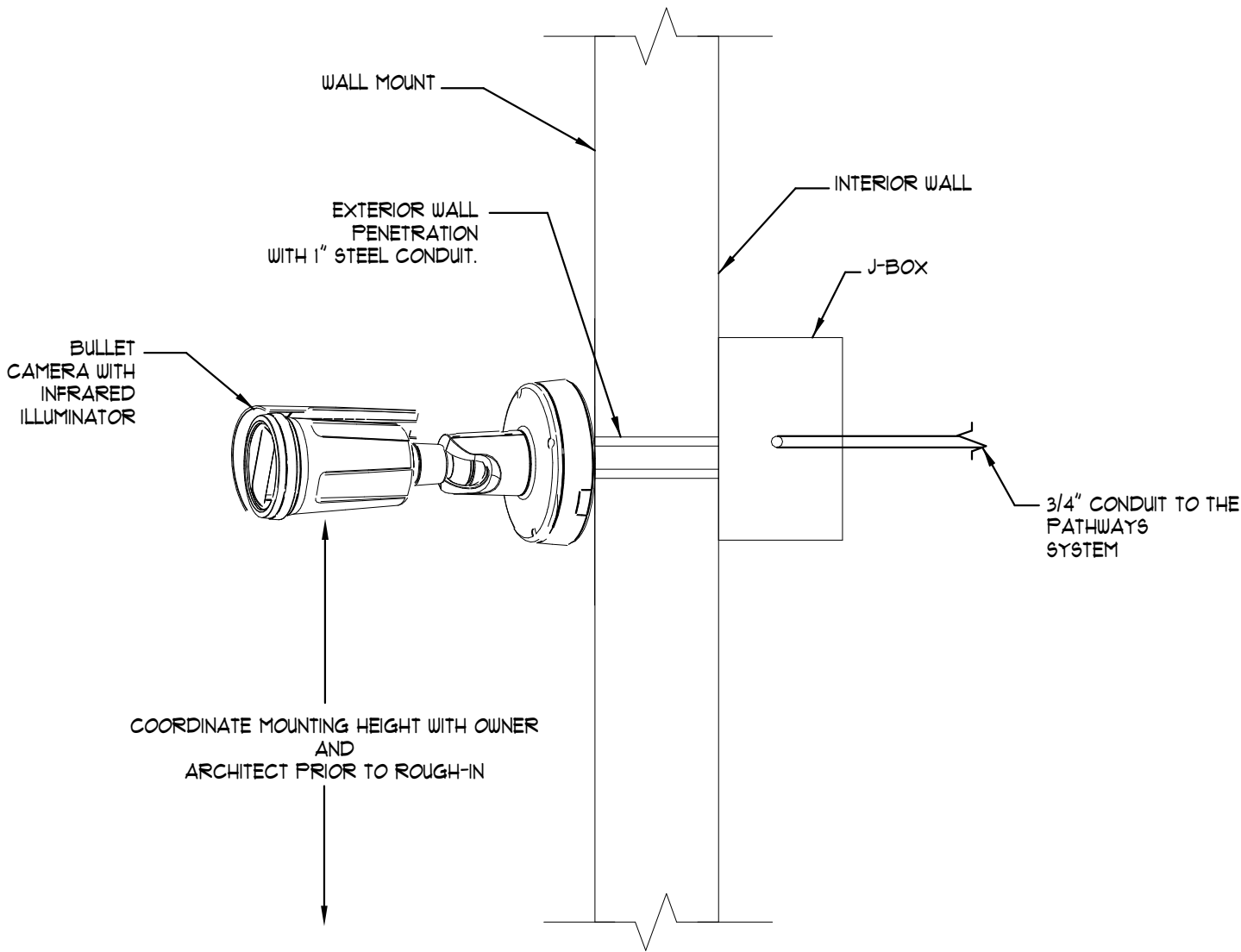
SPECIFICATIONS	
SCOPE OF WORK - TELECOM/SECURITY CONTRACTOR INSTALLATION OF VOICE, DATA & SECURITY INFRASTRUCTURE AND EQUIPMENT. INSTALLER IS RESPONSIBLE FOR PROVIDING ALL CABLE, CONNECTORS, CABLE MANAGEMENT HARDWARE, PATCH PANELS, RACKS AND/OR MOUNTING BRACKETS AND ANY OTHER RELATED PRODUCTS OR HARDWARE REQUIRED TO DELIVER COMPLETED SYSTEM TO CLIENT. SELECTED CONTRACTOR MUST INSTALL ALL EQUIPMENT AND CABLING IN THE PROPER SEQUENCE CONSIDERING OTHER BUILDING ADDITIONS AND CONSTRUCTION SCHEDULES.	
VOICE & DATA INFRASTRUCTURE ALL HORIZONTAL CABLE FOR THE VOICE AND DATA SYSTEMS SHALL BE FOUR (4) PAIR, UTP CABLE. BLUE JACKETED CABLE IS TO BE USED FOR DATA. DATA RUNS ARE TO TERMINATE IN TELECOM ROOM. DATA CABLES WILL BE TERMINATED ON CATEGORY 6 PATCH PANELS. ALL OUTLETS, PATCH PANELS, AND CABLE LINKS ARE TO BE LABELED PER TIA/EIA STANDARDS. INSTALLER SHALL DEVELOP AND SUBMIT FOR APPROVAL A LABELING SYSTEM FOR THE INFRASTRUCTURE INSTALLATION. ALL DATA RUNS ARE TO BE TESTED FOR COMPLIANCE TO TSB61 USING A LEVEL III OR HIGHER HAND HELD TESTER.	
CONTRACTOR SHALL PROVIDE ALL PATCH CORDS AND FIBER JUMPEES.	
HORIZONTAL AND BACKBONE CABLE SHALL BE CMP OR CMR RATED ACCORDING TO THE SPACE THE CABLE WILL OCCUPY.	
APPROVED MANUFACTURERS - LEVITON, COMMSCOPE SYSTMIX, HUBBELL, SIEMON, BERK-TEK.	
FACEPLATES: COORDINATE COLOR WITH ARCHITECT	
SECURITY SECURITY SYSTEM WILL CONSIST OF CLOSED CIRCUIT CAMERA. ALL COMPONENTS TO BE INSTALLED IN APPROPRIATE LOCATIONS PER DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL NECESSARY COMPONENTS, CABLE, HARDWARE, SOFTWARE, ETC. TO FURNISH COMPLETE SYSTEM. ALL INDOOR CABLES SHALL BE RATED CMP OR CMR ACCORDING TO THE SPACE THE CABLE WILL OCCUPY. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING TRAINING TO OPERATOR STAFF, AS REQUIRED TO ASSURE THE APPROPRIATE STAFF BE FAMILIAR AND FLUENT IN OPERATING AND PROGRAMING SYSTEMS. TRAINING SESSIONS TO BE COVERED WITH OWNER/OPERATOR PRIOR TO COMPLETION OF SYSTEM INSTALLATION.	
APPROVED MANUFACTURER VIDEO SURVEILLANCE: SEE DRAWINGS	
PROPOSAL COSTS ALL COSTS ASSOCIATED WITH PREPARATION OF THIS PROPOSAL WILL BE THE RESPONSIBILITY OF THE VENDORS.	
INSTALLATION DOCUMENTATION AS-BUILT DRAWINGS ARE REQUIRED FOR THIS INSTALLATION. PLEASE PROVIDE INFORMATION ON THE TYPES OF RECORDS YOU WILL PROVIDE AND DELIVERY DATE THEREOF. ALL AS-BUILT DRAWINGS MUST HAVE OUTLETS LABELS SHOWN ON DRAWINGS. ALL AS-BUILT DRAWINGS MUST HAVE CABLE PATHWAYS SHOWN, TERMINATION SCHEDULES FOR ALL PATCH PANELS, TERMINAL BLOCKS OR ANY OTHER APPROPRIATE CABLE TERMINATION WILL ALSO BE REQUIRED.	
ADDITIONAL GUIDELINES	
1. TOTAL INSTALLATION MUST FOLLOW APPLICABLE CODES INCLUDING BUT NOT LIMITED TO, NATIONAL ELECTRIC CODE, NFPA GUIDELINES AND ANY LOCAL CODES OR ORDINANCES IN EFFECT.	
2. ALL FLOOR AND WALL OPENINGS MUST BE FIRE SEALED ACCORDING TO LOCAL CODES AND ORDINANCES BY THE VENDOR. ALL WALL OPENINGS MUST BE SLEEVED AND FIRE STOPPED.	
3. VENDOR IS RESPONSIBLE FOR OWN CLEANUP.	
4. VENDOR IS RESPONSIBLE FOR SAFE KEEPING OF THEIR OWN MATERIAL. ANY LOSSES OF MATERIAL IS THE RESPONSIBILITY OF THE VENDOR. OWNER, GENERAL CONTRACTOR, ETC. ARE NOT RESPONSIBLE FOR LOSSES.	
5. GENERAL CONTRACTOR MAY ASK VENDOR TO ATTEND AND HOLD REGULAR AND MANDATORY SAFETY MEETINGS FOR PROJECT MANAGER AND/OR TECHNICIANS.	
6. VENDOR MUST COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT BEFORE DRILLING OR CORING FLOORS FOR CABLE ACCESS.	
7. IT IS THE RESPONSIBILITY OF THE VENDOR TO VERIFY FINAL OUTLET PLACEMENT PRIOR TO ANY CONDUIT ROUGH IN OR BOX INSTALLATION. VERIFICATION PROCESS SHALL INCLUDE REFERENCING INTERIOR DESIGN, MEP AND ARCHITECTURAL DRAWINGS AS WELL AS FIELD VERIFICATION.	
8. CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO THE SPECIFICATIONS CONTAINED WITHIN THE FOLLOWING STANDARDS:	
- TIA 568-C.0 GENERIC TELECOMMUNICATIONS CABLING FOR CUSTOMER PREMISES.	
- TIA 568-C.1 COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD.	
- TIA 568-C.2 BALANCED TWISTED PAIR TELECOMMUNICATIONS CABLING AND COMPONENTS STANDARD.	
- TIA 569-B TELECOMMUNICATIONS PATHWAYS & SPACES.	
- TIA 606-A ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS.	
- TIA 607-B TELECOMMUNICATIONS GROUNDING AND BONDING FOR CUSTOMER PREMISES.	
9. LEAD TECHNICIAN ON SITE MUST BE A FULL-TIME EMPLOYEE OF THE CONTRACTING FIRM AND NOT A SUB-CONTRACTOR.	

CAMERA SCHEDULE					
TAG	DETAIL	MTG HT	CAMERA LOCATION	CAMERA VIEW	VIEW
C-1	2	10'-0"	OUTDOOR	TYPE 2	REAR PARKING
C-2	2	9'-0"	OUTDOOR	TYPE 1	REAR ENTRANCE
C-3	2	9'-0"	OUTDOOR	TYPE 1	SIDE ENTRANCE
C-4	2	BELOW SOFFIT-SEE NOTE 9	OUTDOOR	TYPE 1	FRONT ENTRANCE
C-5	2	BELOW SOFFIT-SEE NOTE 9	OUTDOOR	TYPE 1	FRONT ENTRANCE

- CAMERA TYPE:
- BULLET STYLE WITH ILLUMINATOR, 2 MEGAPIXEL, VARIABLE FOCAL (2.8MM-8.5MM), RATED FOR EXTERIOR USE, AXIS F1445-LE.
 - BULLET STYLE WITH ILLUMINATOR, 5.3 MEGAPIXEL, VARIABLE FOCAL (2.8MM-8.5MM) RATED FOR EXTERIOR USE, AXIS F1441-LE.

- SECURITY GENERAL NOTES
- ALL CAMERAS REQUIRE A CAT 6 DROP WITHIN 4FT OF CAMERA LOCATION, PROVIDED BY TELECOM CONTRACTOR.
 - ALL CAMERAS REQUIRE POE, 15 WATTS NOMINAL.
 - ALL DATA TERMINATIONS PROVIDED BY TELECOM CONTRACTOR.
 - COORDINATE CAMERA LAYOUT IN ALL SPACES WITH STRUCTURAL PRIOR TO INSTALLATION.
 - ALL PENETRATIONS MUST BE CAULKED WITH APPROPRIATE UL LISTED FIRE-STOP ASSEMBLY.
 - ALL CAMERAS ARE TO BE SECURELY FASTENED.
 - ALL CABLING SHALL BE RUN IN DESIGNATED RACEWAY AND/OR SECURED BY APPROVED METHODS.
 - PROVIDE CAMERA VMS AND DELL POWEREDGE T440 SERVER, QUOTE #300000256467661 CONFIGURED AS NETWORK VIDEO RECORDER.
 - VERIFY SOFFIT HEIGHT IN FIELD. COORDINATE WITH OWNER ON SUBSTITUTION OF VANDAL-RESISTANT FIXED DOME CAMERA IF AVAILABLE MOUNTING HEIGHT IS LESS THAN 9'-0"

1 LV SECURITY DETAILS - CAMERA SCHEDULE
NOT TO SCALE



- GENERAL NOTES (APPLY TO THIS DETAIL ONLY)
- PROVIDE 10'-0" SERVICE LOOP AT CAMERA LOCATION. SERVICE LOOP TO BE INSIDE BUILDING AND ABOVE CEILING.
 - ALL PENETRATIONS MUST BE CAULKED WITH APPROPRIATE UL LISTED FIRE-STOP ASSEMBLY.
 - COORDINATE CAMERA ELEVATION WITH DOOR CANOPIES.

2 INTERIOR/EXTERIOR FIXED WALL MOUNT BULLET CAMERA ENCLOSURE DETAIL
NOT TO SCALE



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DETAILS AND SPECIFICATIONS

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1. DATA TRIANGLE WITH "A" SUBSCRIPT - EXISTING DATA LOCATION WITH ONE NEW CAT6 AND ONE EXISTING CAT5
2. DATA TRIANGLE WITH "B" SUBSCRIPT - NEW DATA LOCATION WITH ONE NEW CAT6 AND ONE RELOCATED CAT5.
3. DATA TRIANGLE WITH "C" SUBSCRIPT - EXISTING DATA LOCATION WITH TWO CAT6 CABLES, NO MODIFICATIONS REQUIRED AT OFFICE END.
4. DATA TRIANGLE WITH "D" SUBSCRIPT - NEW DATA LOCATION WITH EXISTING TWO DATA CABLES RELOCATED.
5. DATA TRIANGLE WITH "E" SUBSCRIPT - NEW DATA LOCATION WITH TWO NEW CAT6 CABLES.
6. DATA TRIANGLE WITH "F" SUBSCRIPT - EXISTING DATA LOCATION, NO MODIFICATIONS REQUIRED AT OFFICE END.



- ① LOCATION OF EXISTING DATA OUTLET. ONLY NOTED FOR LOCATIONS WHERE EXISTING DATA CABLES WILL BE RELOCATED.
- ② LOCATION OF EXISTING TELECOM FACEPLATE. RELOCATE ANY EXISTING DATA CABLES TO NEW DATA LOCATION.
- ③ PROVIDE OUTLET ABOVE CEILING FOR FUTURE WIRELESS ACCESS POINT
- ④ PROVIDE SINGLE DATA OUTLET AT 48" AFF FOR TIMECLOCK. COORDINATE WITH ELECTRICAL.
- ⑤ PROVIDE DUAL DATA OUTLET BEHIND FLAT PANEL DISPLAY AT 72" AFF.

A. DATA CABLES PRESENTLY INSTALLED CONSISTS OF APPROXIMATELY 63 CAT6 AND APPROXIMATELY 18 CAT5 CABLES. OFFICE LOCATIONS WITH CAT5 WILL NEED TO BE FIELD-DETERMINED BUT APPEAR TO BE PRIMARILY ALONG THE BUILDING NORTH WALL.

B. ALL ITEMS AND CABLING INSTALLED WITHOUT CONDUIT AND ABOVE GRADE SHALL BE CMP (PLENUM RATED) AND LISTED FOR THE INTENDED USE.

C. ALL CABLES ROUTED BELOW GRADE OR IN SLAB ON GRADE SHALL BE OUTSIDE PLANT RATED FOR WET ENVIRONMENTS. CONTRACTOR TO TRANSITION CABLE TO PLENUM RATED BEFORE CABLE ENTERS A CEILING SPACE.

D. IN LOCATIONS WHERE CEILING SPACE IS NOT ACCESSIBLE, CABLES SHALL BE INSTALLED IN EMT CONDUIT HAVING A MINIMUM SIZE OF 3/4".

E. WHERE EXPOSED, ALL CABLES SHALL BE PROTECTED BY STEEL CONDUIT OR BY A STEEL SURFACE MOUNT WARELAY.

F. INTERIOR CABLING SHALL BE SUPPORTED BY J-HOOKS ON 4'-0" CENTERS AND ROUTED IN A CONCEALED MANNER ABOVE ACCESSIBLE CEILINGS UNTIL REACHING THE NEAREST CABLE TRAY.

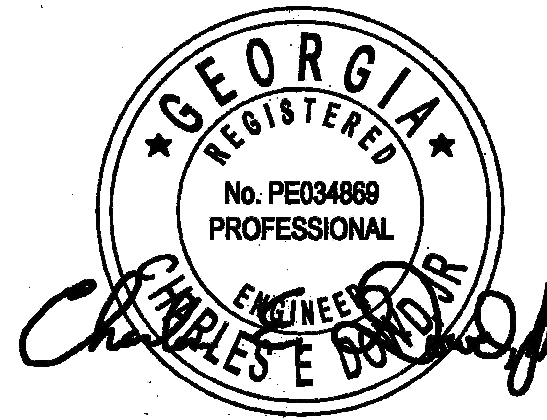
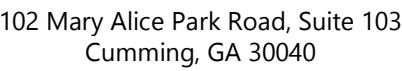
G. ROUTE CABLING VIA DIRECT PATH SO THAT INSTALLED CABLE LENGTH DOES NOT EXCEED 90 METERS (295 FEET).

H. TELECOM CONTRACTOR TO PROVIDE WALL SLEEVES AS REQUIRED FOR CABLE ROUTING. TELECOM CONTRACTOR TO PROVIDE FIRESTOPPING AFTER ALL CABLING HAS BEEN INSTALLED IN ORDER TO MAINTAIN WALL RATING.

I. SPICES IN CABLE RUNS ARE NOT PERMITTED. ALL LOW VOLTAGE CABLES TO BE ROUTED SPICE FREE. ROUTE ALL DEVICE CABLING TO NEAREST TELECOM ROOM UNLESS OTHERWISE NOTED.

J. SEAL ALL BELOW GRADE CONDUITS ENTERING EQUIPMENT ROOM AFTER CABLES HAVE BEEN INSTALLED IN ORDER TO PREVENT WATER FROM ENTERING EQUIPMENT ROOM.

K. COORDINATE EXTERIOR CAMERA ELEVATION WITH DOOR CANOPY.



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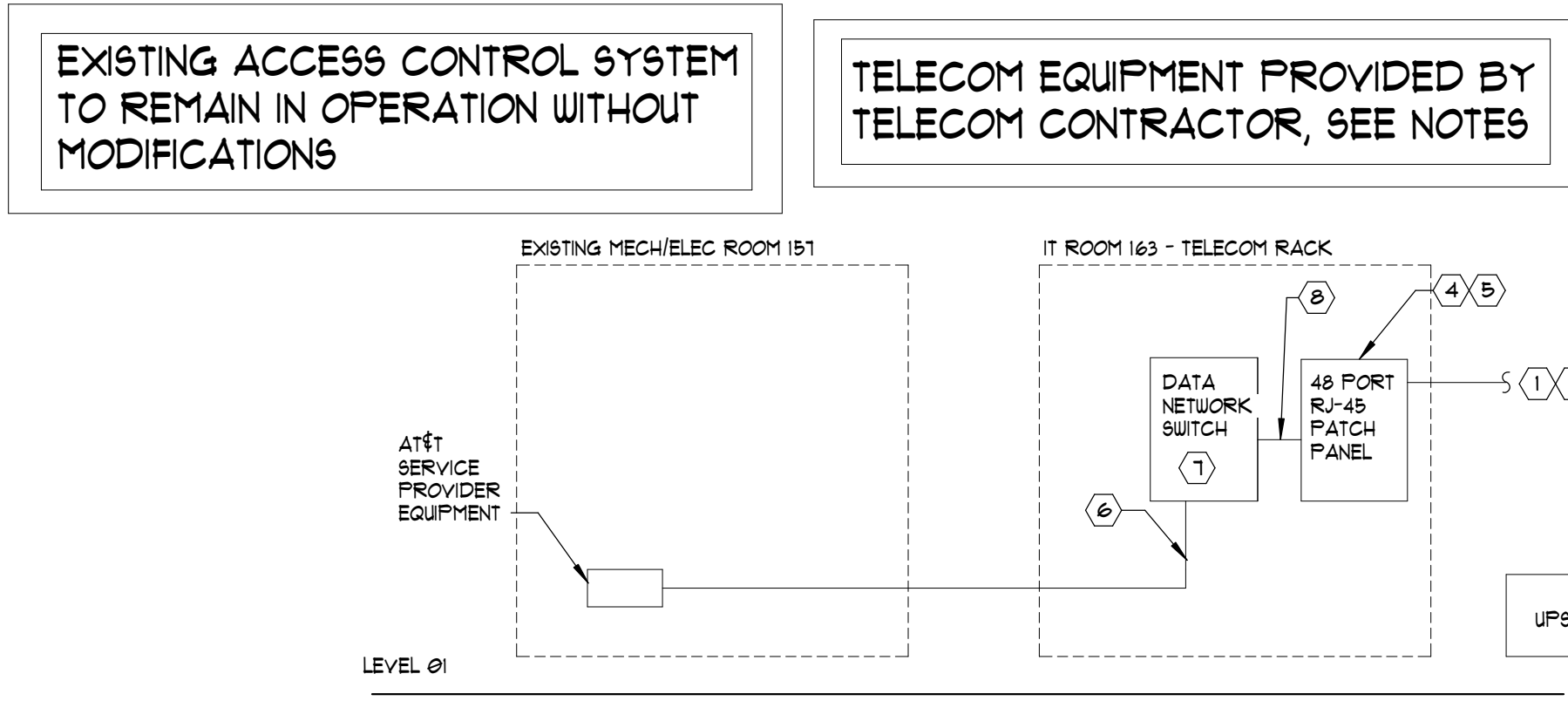
LEVEL 01 - FLOOR PLAN

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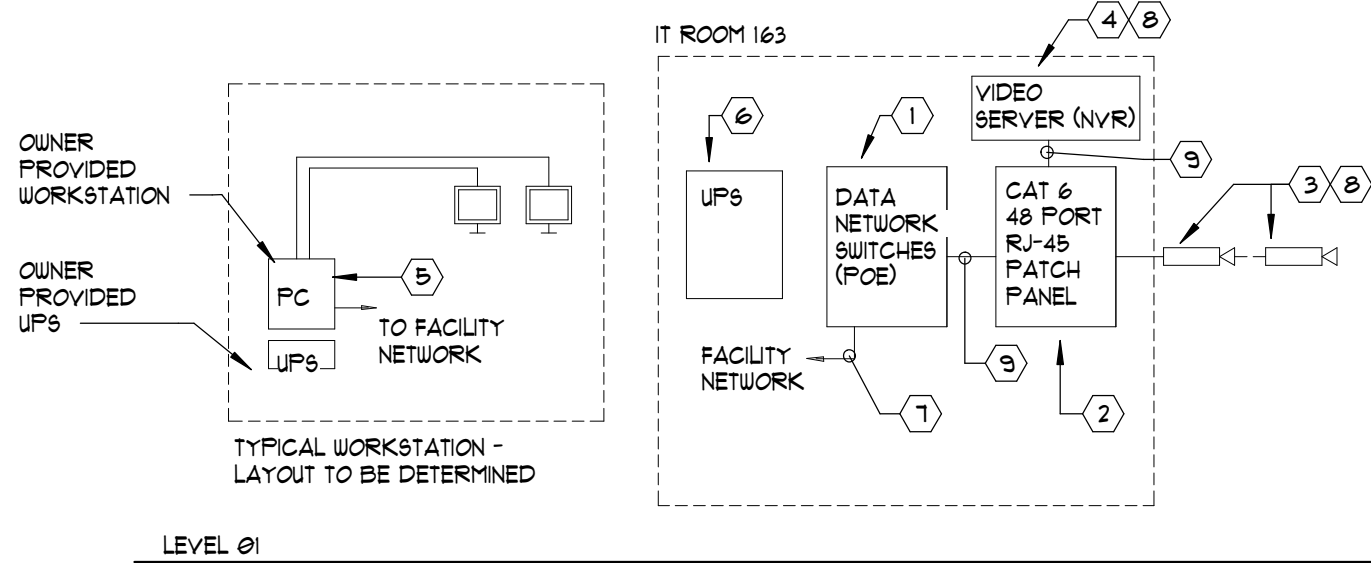
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KEY NOTES (APPLY TO THIS DETAIL ONLY):

- 1 PROVIDE CATEGORY 6 COMPLIANT FOUR-PAIR CABLE FROM CATEGORY 6 COMPLIANT PATCH PANEL IN TELECOM ROOM TO STATION OUTLET LOCATIONS. CABLE TO BE PLENUM RATED AND AWG 23 CONDUCTOR SIZE. SEE FLOOR PLAN AND LEGEND FOR ADDITIONAL REQUIREMENTS.
- 2 PROVIDE CATEGORY 6 COMPLIANT FOUR-PAIR CABLE CATEGORY 6 COMPLIANT PATCH PANEL IN TELECOM ROOM TO WI-FI ACCESS POINT LOCATIONS. CABLE TO BE PLENUM RATED AND AWG 23 CONDUCTOR SIZE. SEE FLOOR PLAN AND LEGEND FOR ADDITIONAL REQUIREMENTS. GROUP WAP CABLES TOGETHER ON PATCH PANEL.
- 3 SEE OUTLET DETAILS FOR TERMINATION REQUIREMENTS.
- 4 PATCH PANELS TO BE CATEGORY 6, 48 PORT, STANDARD DENSITY TYPE. PROVIDE QUANTITY OF CATEGORY 6 COPPER PATCH PANELS AS REQUIRED TO ACCOMMODATE STATION CABLES INDICATED PLUS CAPACITY FOR 20% SPARES.
- 5 WAP PATCH PANELS TO BE CATEGORY 6A, 48 PORT, STANDARD DENSITY TYPE. PROVIDE QUANTITY OF CATEGORY 6A COPPER PATCH PANELS AS REQUIRED TO ACCOMMODATE STATION CABLES INDICATED PLUS CAPACITY FOR 20% SPARES.
- 6 PROVIDE OPTICAL FIBER PATCHCORDS FROM SERVICE PROVIDER EQUIPMENT TO EQUIPMENT RACK IN IT ROOM.
- 7 TWO (2) EXTREME X450, 1 GB, 48 PORT DATA SWITCHES WITH POE AND EXTREME ROUTING LICENSE. SWITCHES FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE ALL REQUIRED PATCHCORDS.
- 8 PROVIDE (1) ONE CATEGORY 6 PATCH CABLE, 2-METERS IN LENGTH, FOR EACH TERMINATED CATEGORY 6 HORIZONTAL CIRCUIT.
- 9 PROVIDE APC 1500 UPS. POWER ALL TELECOM EQUIPMENT THROUGH UPS.
- 10 PROVIDE TWO (2) EXTREME AP3825 WIRELESS ACCESS POINTS. SEE FLOOR PLAN. PROVIDE RF SURVEY TO VERIFY FINAL LOCATIONS.
- 11 PROVIDE ONE (1) TWO-PORT ANALOG TELEPHONE LINE INTERFACE FOR FAX MACHINE. COORDINATE WITH OWNER FOR FINAL LOCATION.

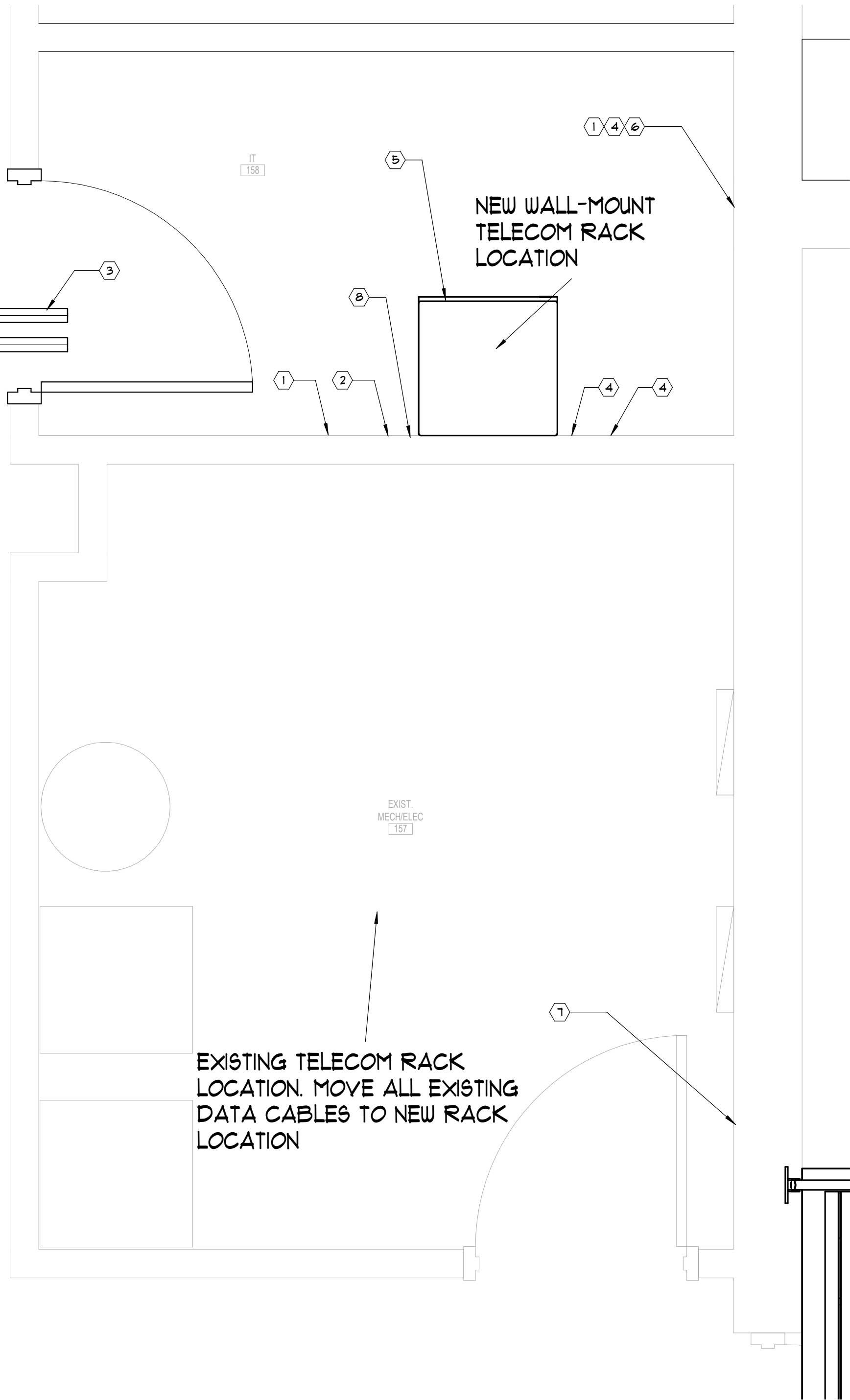
2 LV - FUNCTIONAL DIAGRAM - VOIP/DATA
NOT TO SCALE



KEY NOTES (APPLY TO THIS DETAIL ONLY):

- 1 FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE PATCHCORDS. SEE VOIP/DATA FUNCTIONAL DIAGRAM. CONTRACTOR TO COORDINATE WITH OWNER INFORMATION TECHNOLOGY STAFF FOR SWITCH PORT CONFIGURATION.
- 2 PATCH PANEL PROVIDED BY TELECOM CONTRACTOR. SEE VOIP/DATA FUNCTIONAL DIAGRAM.
- 3 VIDEO SURVEILLANCE CAMERA FURNISHED AND INSTALLED BY SECURITY CONTRACTOR. CAMERA SHALL BE POWERED BY POE. CAMERAS SHALL PROVIDE WIDE DYNAMIC RANGE FOR DAY AND NIGHT OPERATION. CONTRACTOR TO PROVIDE SURGE PROTECTION FOR ALL EXTERIOR CAMERAS.
- 4 CONTRACTOR TO PROVIDE NETWORK VIDEO RECORDER (NVR). NVR SHALL BE DELL POWEREDGE T440, QUOTE #530000756461661.
- 5 SECURITY SYSTEM/VIDEO SURVEILLANCE REVIEW WORKSTATION PROVIDED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND CONFIGURING VIDEO MANAGEMENT SYSTEM (VMS) SOFTWARE CLIENT APPLICATION SOFTWARE ON A MAXIMUM OF TWO OWNER PROVIDED WORKSTATIONS. COORDINATE WITH OWNER ON WORKSTATION QUANTITIES AND LOCATIONS.
- 6 CONNECT DATA SWITCH DEVICES TO UPS, SEE VOIP/DATA FUNCTIONAL DIAGRAM.
- 7 STRUCTURED CABLING FOR FACILITY NETWORK. INSTALLED UNDER COMMUNICATIONS (VOIP/DATA) SCOPE OF WORK. SEE VOIP/DATA FUNCTIONAL DIAGRAM.
- 8 CONTRACTOR SHALL PROVIDE ALL CONFIGURATION AND PROGRAMMING FOR CAMERAS AND NVR SYSTEM.
- 9 CONTRACTOR TO PROVIDE ALL REQUIRED CATEGORY 6 PATCH CORDS AND CABLING.

3 LV - FUNCTIONAL DIAGRAM - VIDEO SURVEILLANCE
NOT TO SCALE



KEY NOTES:

- 1 GENERAL CONTRACTOR TO INSTALL 8" HIGH X 3/4" THICK PLYWOOD BACKBOARD TO FULL LENGTH OF WALL AT LOCATIONS SHOWN. PLACE BOTTOM OF BACKBOARD AT 18" AFF. PLYWOOD SHEETS SHALL BE CDX GRADE AND BOTH SIDES AND ALL FOUR EDGES SHALL BE TREATED WITH TWO (2) COATS OF FIRE RETARDANT GREY PAINT.
- 2 ELECTRICAL CONTRACTOR SHALL PROVIDE MAIN TELECOM GROUNDING BUSBAR. REFERENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 ELECTRICAL CONTRACTOR TO PROVIDE TWO (2) - 4" WALL SLEEVES AT LOCATIONS SHOWN. FIRESTOP PENETRATIONS AFTER CABLE INSTALLATION TO MATCH WALL RATING.
- 4 ELECTRICAL CONTRACTOR TO PROVIDE A 120V QUAD RECEPTACLE AT 84" AFF FOR EQUIPMENT RACK AND OTHER WALL-MOUNTED EQUIPMENT. PROVIDE A DEDICATED 20A CIRCUIT FOR EACH RECEPTACLE.
- 5 WALL MOUNTED TELECOM RACK. TELECOM CONTRACTOR TO INSTALL HOFFMAN E198UM1200 SWING-OUT, 12-SPACE RACK FURNISHED BY OWNER. OVERALL RACK DIMENSIONS ARE 20.15" X 25.5" X 20" (WxHxD).
- 6 WALL SPACE RESERVED FOR FUTURE EQUIPMENT.
- 7 EXISTING AT&T SERVICE PROVIDER EQUIPMENT INCLUDING CIENA 3930 SERVICE DELIVERY DATA SWITCH.
- 8 TELECOM CONTRACTOR TO PROVIDE J-HOOKS ABOVE CEILING FROM TELECOM RACK TO CORRIDOR.

1 LEVEL 01 - IT ROOM 163
NOT TO SCALE



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Cumming, GA 30040



FORSYTH COUNTY
INSPECTORS/RECYCLE
RENOVATION
FORSYTH COUNTY
426 CANTON HWY
CUMMING, GA 30040

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ROOMS

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