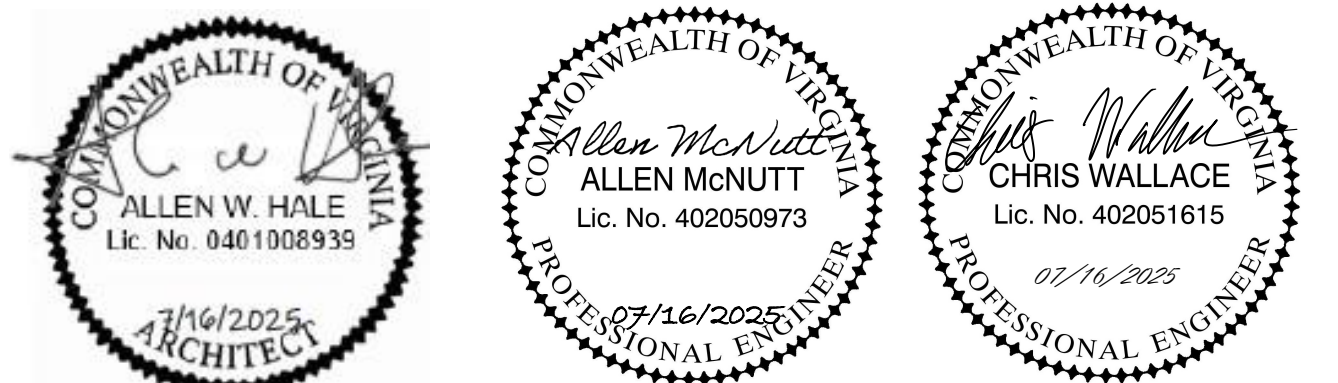
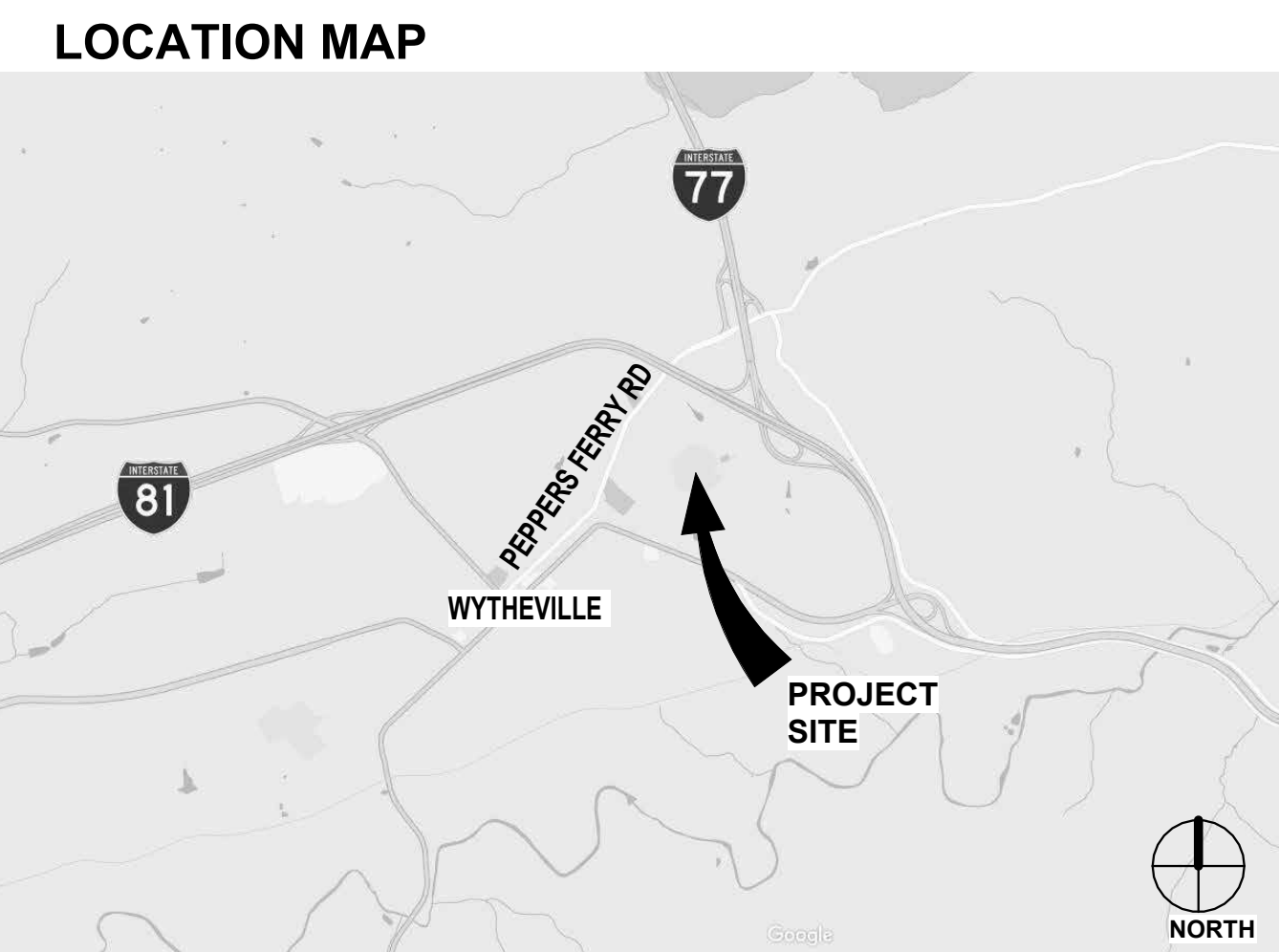
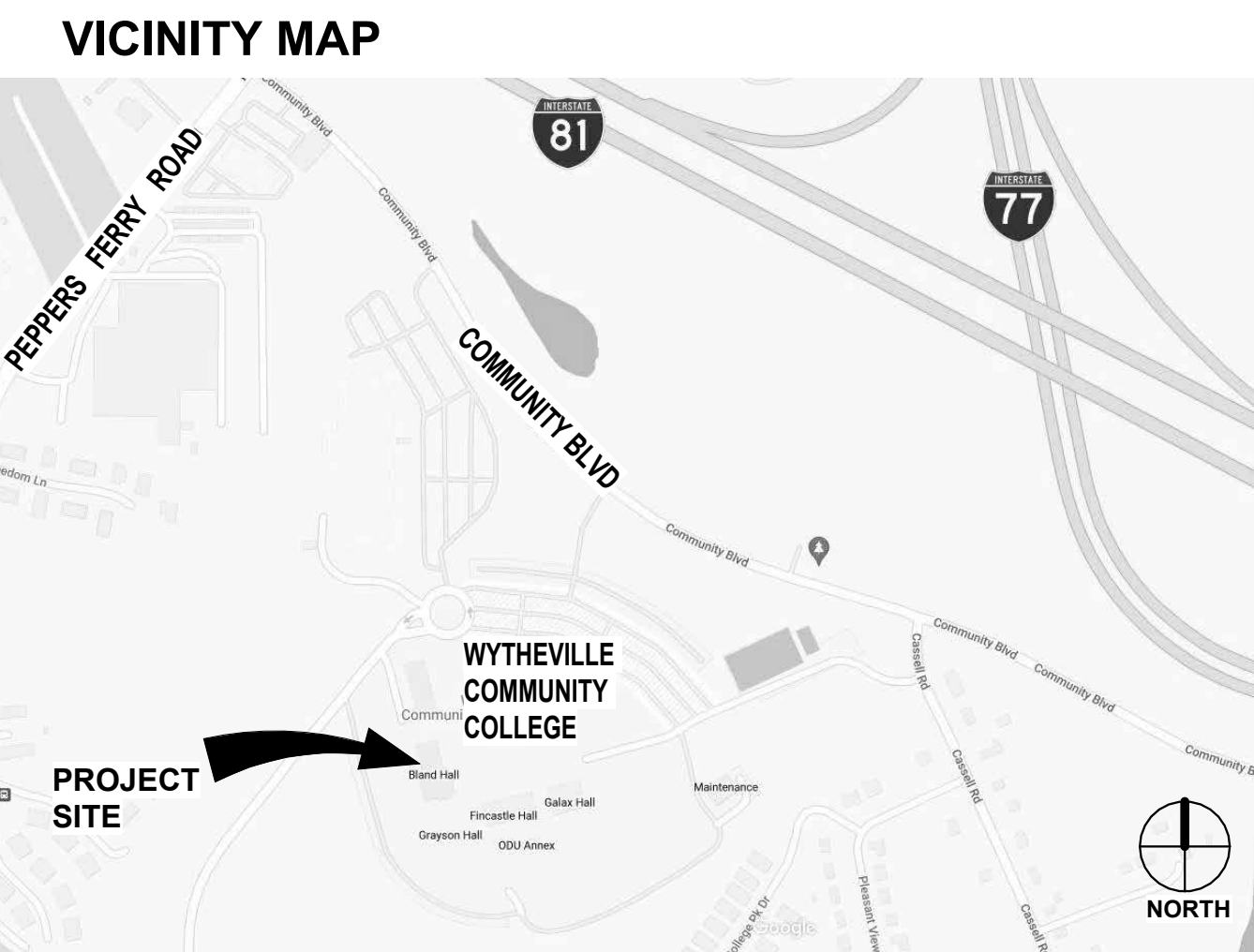


MAIN CAMPUS BLAND HALL RENOVATION

VIRGINIA COMMUNITY COLLEGE SYSTEMS
WYTHEVILLE COMMUNITY COLLEGE - 1000 E Main St, Wytheville, VA 24382

PROJECT CODE: #260-B4260-040

SFCS COMMISSION NUMBER: 20301.13



CODE INFORMATION

ORIGINAL CONSTRUCTION DOCUMENTS DATED 12/05/1968. APPLICABLE BUILDING CODE AT TIME OF ORIGINAL DRAWINGS WAS VFSR.

2021	VCC OCCUPANCY GROUP		B - BUSINESS	A-3 - ASSEMBLY	M - MERCANTILE
			EDUCATIONAL - STUDENTS ABOVE 12TH GRADE	LIBRARY	RETAIL STORE (FIRST FLOOR)
	VCC CONSTRUCTION TYPE		IIB	IIB	IIB
	FIRE PROTECTION SPRINKLER SYSTEM		NO	NO	NO
	ALLOWABLE BUILDING HEIGHT IN STORIES		3	504.4	2
	ALLOWABLE AREA PER FLOOR		23,000 SF	506.2	9,500 SF
	ALLOWABLE BUILDING HEIGHT		55 FT	504.3	55 FT
	MAXIMUM COMMON PATH OF TRAVEL		75 FT	1006.2.1	75 FT
	MAXIMUM TRAVEL DISTANCE		200 FT	1017.2	200 FT
	MAXIMUM LENGTH OF DEAD END CORRIDOR		20 FT	1020.4	20 FT
	MINIMUM CORRIDOR WIDTH	1020.3			
	OCC LOAD > 50		44 IN		
	OCC LOAD < 50		36 IN		
	SEISMIC CATEGORY		B		
	RISK CATEGORY		II (NON-ESSENTIAL)		

MINIMUM INTERIOR WALL AND CEILING FINISH REQUIREMENTS - TABLE 803.13, NON-SPRINKLERED			
	INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS	ENCLOSED SPACES
BUSINESS & MERCANTILE	A	A	C
ASSEMBLY - A-3	A	B	C

FIRE RESISTANCE REQUIREMENTS

		AT BUSINESS OCCUPANCY
EXTERIOR LOAD BEARING WALLS	601	0 HR
EXTERIOR NON-LOAD BEARING WALLS	705.5	
10' < X		0 HR
FIRE WALLS		NONE REQUIRED
EXITS AND STAIRS	1023.2	1 HR
CORRIDORS	1020.2	1 HR
SHAFTS - fewer than 4 stories	713.4	1 HR
SMOKE BARRIERS		NONE REQUIRED
INTERIOR BEARING WALLS	601	0 HR
STRUCTURAL MEMBERS	601	0 HR
FLOOR CONSTRUCTION	601	0 HR
ROOF CONSTRUCTION	601	0 HR

FIRE ALARM

BLAND HALL HAS A FIRE ALARM SYSTEM IN PLACE AND IN OPERATION.

DESIGN CRITERIA

STATE OF VIRGINIA CPSM 2025 EDITION, REVISION 0
DATED MARCH 17, 2025

2021 VIRGINIA UNIFORM STATEWIDE BUILDING CODE
2021 VIRGINIA EXISTING BUILDING CODE
2021 VIRGINIA CONSTRUCTION CODE
2021 VIRGINIA PLUMBING CODE
2021 VIRGINIA MECHANICAL CODE
2021 VIRGINIA BUILDING AND FIRE CODE REGULATIONS
2021 VIRGINIA FUEL GAS CODE

ADA90- TITLE II : (PER CPSM 4.2, P.81)
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN: CHAPTER 2
ICC A117.1-2017: CHAPTERS 1, 3-11

2016 ASHRAE 90.1
2019 NFPA 72 NATIONAL FIRE ALARM CODE
2020 NFPA 70 NATIONAL ELECTRICAL CODE

VEBC - CHAPTER 6 - LEVEL 2 ALTERATION

PROJECT STATISTICS - BLAND HALL

BUILDING AREA PER VCC

GROUND FLOOR (GROSS) RENOVATED AREA:	7,726 SF
AREA NOT AFFECTED BY RENOVATION:	4,714 SF
TOTAL GROSS FLOOR AREA PER VCC:	12,440 SF
FIRST FLOOR,	
TOTAL GROSS FLOOR AREA (NO WORK)	13,109 SF
TOTAL PER VCC:	25,549 SF

BUILDING AREA PER THE CPSM:

GROUND FLOOR	13,048 SF
FIRST FLOOR	13,708 SF
TOTAL GSF PER CPSM	26,756 SF

BUILDING HEIGHT

NUMBER OF FLOORS BELOW GRADE: 0
NUMBER OF FLOORS ABOVE GRADE: 2
BUILDING HEIGHT: 32'-2" TO HIGHEST POINT

BUILDING VOLUME:

CALCULATED INSIDE FACE OF WALL TO BOTTOM OF ROOF DECK

GROUND FLOOR	
RENOVATED	115,190 CF
UNRENOVATED	60,311 CF
TOTAL	175,501 CF
FIRST FLOOR (NO WORK)	184,541 CF
TOTAL BUILDING VOLUME	360,041 CF

EGRESS CAPACITY - GROUND FLOOR

VESTIBULE 100 TO EXTERIOR	340
LRC 101A	340
LRC 101B	340
LRC 101X TO EXTERIOR	170
VESTIBULE 109 TO EXTERIOR	340
EXIT ACCESS STAIR #1 TO EXTERIOR	170

PROJECT DESCRIPTION

THE PROJECT INCLUDES THE LEVEL 2 ALTERATION OF PORTIONS OF THE LOWER LEVEL OF BLAND HALL INTO THE LEARNING RESOURCE CENTER AND THE KEGLEY ARCHIVE. THE RENOVATIONS WILL INCLUDE DEMOLISHING EXISTING PARTITIONS; INSTALLING NEW PARTITIONS; INSTALLING STACK SHELVING; RENOVATING MECHANICAL, ELECTRICAL, AND FIRE ALARM SYSTEMS; TAPPING A WATER CONNECTION; AND NEW FINISHES THROUGHOUT THE RENOVATION AREA.

DIG NOTICE

CPSM - 5.8.6.2.11

CONTACT VIRGINIA 811 AT 811, 1-800-552-7001, OR HTTPS://WWW.VA811.COM
NO LESS THAN 72 HOURS PRIOR TO EXCAVATION AND DO NOT DISTURB THE SOIL UNTIL DIG TICKET HAS BEEN PROCESSED.

ASBESTOS DISCLOSURE STATEMENT : CPSM - 4.12.2.3

AN ASBESTOS INSPECTION WAS PERFORMED AND ACM WAS FOUND GENERALLY IN THE AREA INDICATED. THE ASBESTOS INSPECTION REPORT IS INCLUDED AS AN APPENDIX TO THE PROJECT SPECIFICATIONS. THE OWNER SHALL SUBMIT AN APPLICATION FOR PERMIT TO HAVE THE ASBESTOS-CONTAINING MATERIALS ABATED BY A LICENSED ASBESTOS CONTRACTOR UNDER A SEPARATE CONTRACT USING APPROVED PROCEDURES PRIOR TO ISSUING A NOTICE TO PROCEED TO THE GENERAL CONTRACTOR. ANY ACM THAT IS TO REMAIN AND THE NEW NON ASBESTOS-CONTAINING MATERIAL SHALL BE LABELED ACCORDINGLY. THE ASBESTOS ABATEMENT CONTRACTOR SHALL MARK UP THE AS-BUILT DRAWINGS RESULTING FROM ITS WORK TO INCLUDE AREAS WHERE ASBESTOS WAS ABATED, AREAS WHERE ASBESTOS WAS ENCAPSULATED, AND AREAS WHERE ACM EXIST BUT WERE LEFT IN PLACE. THE GENERAL CONTRACTOR SHALL REVIEW AND CERTIFY THE LOCATIONS WHERE ACM WAS ABATED, AREAS WHERE ACM WAS ENCAPSULATED AND AREAS WHERE ACM WAS LEFT IN PLACE AS MARKED ON THE AS-BUILT DRAWINGS AND WILL PROVIDE THE DRAWINGS TO THE ARCHITECT.

LEAD MATERIALS DISCLOSURE STATEMENT : CPSM - 4.13.5.1

AN INSPECTION TO IDENTIFY LEAD CONTAINING OR COATED BUILDING COMPONENTS HAS BEEN CONDUCTED AND CAN BE FOUND IN THE PROJECT SPECIFICATIONS. THIS REPORT IS PROVIDED FOR THE CONTRACTOR'S USE AND MAY NOT BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL VIRGINIA OCCUPATIONAL SAFETY AND HEALTH (VOSH) REGULATIONS AS THEY PERTAIN TO EMPLOYEE EXPOSURES TO LEAD. ALL LEAD AND LEAD-COATED BUILDING COMPONENTS SHALL BE RECYCLED TO THE EXTENT POSSIBLE.

STRUCTURAL OBSERVATIONS : NONE REQUIRED FOR THIS PROJECT

DESIGN LIVE LOADS FOR ALL FLOORS

BLAND HALL LRC RENOVATION

- LRC AREA: 100 PSF
- CORRIDORS: 100 PSF
- ARCHIVE STORAGE: SPECIFIED WEIGHT OF STORAGE SHELVING
- ALL OTHER AREAS ON SLAB-ON-GRADE: 100 PSF
- ROOF: 30 PSF
- LIBRARY STACK ROOMS: 150 PSF (1000 LB CONCENTRATED)

BUILDING OCCUPANT LOAD

GROUND FLOOR - PRE-RENOVATION PER 2005 DOCUMENTS	287
GROUND FLOOR - RENOVATED	228^
DIFFERENCE	(-59)
FIRST FLOOR (NO WORK)	149
BUILDING TOTAL	377

^OCCUPANT LOAD CALCULATED PER VCC 2021.
REFER TO SHEET A0.1 FOR OCCUPANT LOAD TABLE.

BID SET

DATE: JULY 16, 2025

DRAWING INDEX

COVER SHEET	COVER SHEET
T1	
ARCHITECTURE	
G0.0	ACCESSIBLE AND USABLE BUILDINGS
A0.0	PROJECT DATA, SYMBOLS AND ABBREVIATIONS
A0.1	LIFE SAFETY PLAN
A0.2	FIRE PROTECTION INFORMATION
A0.3	FIRE PROTECTION INFORMATION
A0.4	FIRE PROTECTION INFORMATION
A01.0	GROUND FLOOR DEMOLITION PLANS
A1.1	GROUND FLOOR PLANS
A2.1	ENLARGED PLANS AND DETAILS
A4.1	DOOR SCHEDULE AND DETAILS
A5.1	SECTIONS AND DETAILS
A7.1	INTERIOR ELEVATIONS
A7.2	INTERIOR DETAILS
INTERIORS	
I0.0	GENERAL SHEET AND FINISH LEGEND
I1.1	FINISH FLOOR PLAN
IF1.1	FURNITURE FLOOR PLAN
MECHANICAL	
M0.0	ABBREVIATIONS, LEGENDS, EQUIPMENT SCHEDULES AND NOTES - HVAC
M1.1	GROUND FLOOR PLAN - HVAC DEMOLITION AND NEW WORK
M1.2	GROUND FLOOR PLAN - PIPING
M1.3	DETAILS - HVAC
PLUMBING	
P1.1	GROUND FLOOR PLAN - WATER
ELECTRICAL	
E0.0	ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS
E0.1	ELECTRICAL DETAILS & SCHEDULES
ED1.1	DEMOLITION PLANS
E1.1	GROUND FLOOR PLAN - LIGHTING & POWER
E4.1	ELECTRICAL RISER DIAGRAMS & PANELBOARD SCHEDULES
E7.1	GROUND FLOOR PLAN - FIRE ALARM
LOW VOLTAGE	
LV0.0	LOW VOLTAGE SYMBOL LEGEND
LV0.1	LOW VOLTAGE DETAILS
LV1.1	GROUND FLOOR PLAN - LOW VOLTAGE

CPSM 5.8.6.2.28.

LOCAL PUBLIC SAFETY PERSONNEL UTILIZE WIRELESS COMMUNICATIONS.

CPSM 5.8.6.2.29.

WYTHEVILLE COMMUNITY COLLEGE HAS A RISK MANAGEMENT PLAN AND AN EMERGENCY RESPONSE PLAN IN PLACE FOR THE WYTHEVILLE LOCATION WHICH INCLUDES ALL BUILDINGS AND GROUNDS.

WYTHEVILLE COMMUNITY COLLEGE HAS AN EXISTING ADDRESSABLE FIRE ALARM SYSTEM.

VIRGINIA ENERGY CONSERVATION CODE COMPLIANCE

1. IN ACCORD WITH THE VIRGINIA ENERGY CONSERVATION CODE (VECC), THE BUILDING SHALL COMPLY WITH ASHRAE 90.1-2019 SECTIONS 6, 8, 9, & 10.

a. PROJECT SCOPE DOES NOT INCLUDE ALTERATIONS TO THE BUILDING ENVELOPE.

b. SECTION 6 HVAC COMPLIANCE WILL BE VIA
ii. Sections 6.4 – Mandatory Provisions and 6.5 – Prescriptive Path

c. SECTION 8 POWER COMPLIANCE WILL BE VIA
i. SECTION 8.4 – MANDATORY PROVISIONS

d. SECTION 9 LIGHTING COMPLIANCE WILL BE VIA
i. SECTION 9.5 – BUILDING AREA METHOD

HIGH PERFORMANCE BUILDINGS ACT COMPLIANCE

IN ACCORD WITH THE HIGH PERFORMANCE BUILDINGS ACT, THE BUILDING IS EXEMPT FROM COMPLIANCE BECAUSE THE COST OF THE RENOVATIONS DOES NOT EXCEED 50% OF THE VALUE OF THE BUILDING.

SFCS

Architecture
Engineering
Planning
Interiors

ROANOKE OFFICE (CORPORATE)
305 SOUTH JEFFERSON STREET
ROANOKE, VA 24011-2003
800.873.2788

CHARLOTTE OFFICE
1927 SOUTH TRYON STREET, SUITE 207
CHARLOTTE, NC 28203
704.372.7327

PHILADELPHIA OFFICE
1777 SENTRY PARKWAY WEST
VEVA 17, SUITE 220
BLUE BELL, PA 19422
610.825.1288

LOUISVILLE OFFICE
2115 LEXINGTON ROAD, SUITE 100
LOUISVILLE, KY 40206
502.414.4545



WYTHEVILLE
COMMUNITY COLLEGE

OWNER:
WYTHEVILLE COMMUNITY COLLEGE
1000 EAST MAIN STREET
WYTHEVILLE, VA 24382
CONTACT: DAVID DICKENS
(276) 233-4774
DDICKENS@WCC.VCCS.EDU

1" = 12" SCALE: 3/4" = 1'-0"

1" = 12" SCALE: 1/2" = 1'-0"

1" = 12" SCALE: 1/4" = 1'-0"

1" = 12" SCALE: 3/8" = 1'-0"

1" = 12" SCALE: 1/8" = 1'-0"

1" = 12" SCALE: 1/16" = 1'-0"

1" = 12" SCALE: 1/32" = 1'-0"

1" = 12" SCALE: 1/64" = 1'-0"

1" = 12" SCALE: 1/128" = 1'-0"

1" = 12" SCALE: 1/256" = 1'-0"

1" = 12" SCALE: 1/512" = 1'-0"

1" = 12" SCALE: 1/1024" = 1'-0"

1" = 12" SCALE: 1/2048" = 1'-0"

1" = 12" SCALE: 1/4096" = 1'-0"

1" = 12" SCALE: 1/8192" = 1'-0"

1" = 12" SCALE: 1/16384" = 1'-0"

1" = 12" SCALE: 1/32768" = 1'-0"

1" = 12" SCALE: 1/65536" = 1'-0"

1" = 12" SCALE: 1/131072" = 1'-0"

1" = 12" SCALE: 1/262144" = 1'-0"

1" = 12" SCALE: 1/524288" = 1'-0"

1" = 12" SCALE: 1/1048576" = 1'-0"

1" = 12" SCALE: 1/2097152" = 1'-0"

1" = 12" SCALE: 1/4194304" = 1'-0"

1" = 12" SCALE: 1/8388608" = 1'-0"

1" = 12" SCALE: 1/16777216" = 1'-0"

1" = 12" SCALE: 1/33554432" = 1'-0"

1" = 12" SCALE: 1/67108864" = 1'-0"

1" = 12" SCALE: 1/134217728" = 1'-0"

1" = 12" SCALE: 1/268435456" = 1'-0"

1" = 12" SCALE: 1/536870912" = 1'-0"

1" = 12" SCALE: 1/1073741824" = 1'-0"

1" = 12" SCALE: 1/2147483648" = 1'-0"

1" = 12" SCALE: 1/4294967296" = 1'-0"

1" = 12" SCALE: 1/8589934592" = 1'-0"

1" = 12" SCALE: 1/17179869184" = 1'-0"

1" = 12" SCALE: 1/34359738368" = 1'-0"

1" = 12" SCALE: 1/68719476736" = 1'-0"

1" = 12" SCALE: 1/137438953472" = 1'-0"

1" = 12" SCALE: 1/274877906944" = 1'-0"

1" = 12" SCALE: 1/549755813888" = 1'-0"

1" = 12" SCALE: 1/1099511627776" = 1'-0"

1" = 12" SCALE: 1/2199023255552" = 1'-0"

1" = 12" SCALE: 1/4398046511104" = 1'-0"

1" = 12" SCALE: 1/8796093022208" = 1'-0"

1" = 12" SCALE: 1/17592186044416" = 1'-0"

1" = 12" SCALE: 1/35184372088832" = 1'-0"

1" = 12" SCALE: 1/70368744177664" = 1'-0"

1" = 12" SCALE: 1/140737488355328" = 1'-0"

1" = 12" SCALE: 1/281474976710656" = 1'-0"

1" = 12" SCALE: 1/562949953421312" = 1'-0"

1" = 12" SCALE: 1/1125899906842624" = 1'-0"

1" = 12" SCALE: 1/2251799813685248" = 1'-0"

1" = 12" SCALE: 1/4503599627370496" = 1'-0"

1" = 12" SCALE: 1/9007199254740992" = 1'-0"

1" = 12" SCALE: 1/18014398509481984" = 1'-0"

1" = 12" SCALE: 1/36028797018963968" = 1'-0"

1" = 12" SCALE: 1/72057594037927936" = 1'-0"

1" = 12" SCALE: 1/144115188075855872" = 1'-0"

1" = 12" SCALE: 1/288230376151711744" = 1'-0"

1" = 12" SCALE: 1/576460752303423488" = 1'-0"

1" = 12" SCALE: 1/1152921504606846976" = 1'-0"

1" = 12" SCALE: 1/2305843009213693952" = 1'-0"

1" = 12" SCALE: 1/4611686018427387904" = 1'-0"

1" = 12" SCALE: 1/9223372036854775808" = 1'-0"

1" = 12" SCALE: 1/18446744073709551616" = 1'-0"

1" = 12" SCALE: 1/36893488147419103232" = 1'-0"

1" = 12" SCALE: 1/73786976294838206464" = 1'-0"

1" = 12" SCALE: 1/147573952589676412928" = 1'-0"

1" = 12" SCALE: 1/295147905179352825856" = 1'-0"

1" = 12" SCALE: 1/590295810358705651712" = 1'-0"

1" = 12" SCALE: 1/1180591620717411303424" = 1'-0"

1" = 12" SCALE: 1/2361183241434822606848" = 1'-0"

1" = 12" SCALE: 1/4722366482869645213696" = 1'-0"

1" = 12" SCALE: 1/9444732965739290427392" = 1'-0"

1" = 12" SCALE: 1/18889465931478580854784" = 1'-0"

1" = 12" SCALE: 1/37778931862957161709568" = 1'-0"

1" = 12" SCALE: 1/75557863725914323419136" = 1'-0"

1" = 12" SCALE: 1/151115727451828646838272" = 1'-0"

1" = 12" SCALE: 1/302231454903657293676544" = 1'-0"

1" = 12" SCALE: 1/604462909807314587353088" = 1'-0"

1" = 12" SCALE: 1/1208925819614629174706176" = 1'-0"

1" = 12" SCALE: 1/2417851639229258349412352" = 1'-0"

1" = 12" SCALE: 1/4835703278458516698824704" = 1'-0"

1" = 12" SCALE: 1/9671406556917033397649408" = 1'-0"

1" = 12" SCALE: 1/19342813113834066795298816" = 1'-0"

1" = 12" SCALE: 1/38685626227668133590597632" = 1'-0"

1" = 12" SCALE: 1/77371252455336267181195264" = 1'-0"

1" = 12" SCALE: 1/154742504910672534362390528" = 1'-0"

1" = 12" SCALE: 1/309485009821345068724781056" = 1'-0"

1" = 12" SCALE: 1/618970019642690137449562112" = 1'-0"

1" = 12" SCALE: 1/1237940039285380274899124224" = 1'-0"

1" = 12" SCALE: 1/2475880078570760549798248448" = 1'-0"

1" = 12" SCALE: 1/4951760157141521099596496896" = 1'-0"

1" = 12" SCALE: 1/9903520314283042199192993792" = 1'-0"

1" = 12" SCALE: 1/19807040628566084398385987584" = 1'-0"

1" = 12" SCALE: 1/39614081257132168796771975168" = 1'-0"

1" = 12" SCALE: 1/79228162514264337593543950336" = 1'-0"

1" = 12" SCALE: 1/158456325028528675187087900672" = 1'-0"

1" = 12" SCALE: 1/316912650057057350374175801344" = 1'-0"

1" = 12" SCALE: 1/633825300114114700748351602688" = 1'-0"

1" = 12" SCALE: 1/1267650600228229401496703205376" = 1'-0"

1" = 12" SCALE: 1/2535301200456458802993406410752" = 1'-0"

1" = 12" SCALE: 1/5070602400912917605986812821504" = 1'-0"

1" = 12" SCALE: 1/10141204801825835211973625643008" = 1'-0"

1" = 12" SCALE: 1/20282409603651670423947251286016" = 1'-0"

1" = 12" SCALE: 1/40564819207303340847894502572032" = 1'-0"

1" = 12" SCALE: 1/81129638414606681695789005144064" = 1'-0"

1" = 12" SCALE: 1/162259276829213363391578010288128" = 1'-0"

1" = 12" SCALE: 1/324518553658426726783156020576256" = 1'-0"

1" = 12" SCALE: 1/649037107316853453566312041152512" = 1'-0"

1" = 12" SCALE: 1/1298074214633706907132624082305024" = 1'-0"

1" = 12" SCALE: 1/2596148429267413814265248164610048" = 1'-0"

1" = 12" SCALE: 1/5192296858534827628530496329220096" = 1'-0"

1" = 12" SCALE: 1/10384593717069655257060992658440192" = 1'-0"

1" = 12" SCALE: 1/20769187434139310514121985316880384" = 1'-0"

1" = 12" SCALE: 1/41538374868278621028243970633760768" = 1'-0"

1" = 12" SCALE: 1/83076749736557242056487941267521536" = 1'-0"

1" = 12" SCALE: 1/166153499473114484112975882535043072" = 1'-0"

1" = 12" SCALE: 1/332306998946228968225951765070086144" = 1'-0"

1" = 12" SCALE: 1/664613997892457936451903530140172288" = 1'-0"

1" = 12" SCALE: 1/1329227995784915872903807060280344576" = 1'-0"

1" = 12" SCALE: 1/2658455991569831745807614120560689152" = 1'-0"

1" = 12" SCALE: 1/5316911983139663491615228241121378304" = 1'-0"

1" = 12" SCALE: 1/10633823966279326983230456482242756608" = 1'-0"

1" = 12" SCALE: 1/21267647932558653966460912964485513216" = 1'-0"

1" = 12" SCALE: 1/42535295865117307932921825928971026432" = 1'-0"

1" = 12" SCALE: 1/85070591730234615865843651857942052864" = 1'-0"

1" = 12" SCALE: 1/170141183460469231731687303715884105728" = 1'-0"

1" = 12" SCALE: 1/340282366920938463463374607431768211456" = 1'-0"

1" = 12" SCALE: 1/680564733841876926926749214863536422912" = 1'-0"

1" = 12" SCALE: 1/1361129467683753853853498429727072845824" = 1'-0"

1" = 12" SCALE: 1/2722258935367507707706996859454145691536" = 1'-0"

1" = 12" SCALE: 1/5444517870735015415413993718908291383072" = 1'-0"

1" = 12" SCALE: 1/10889035741470030830827987437816582766144" = 1'-0"

1" = 12" SCALE: 1/21778071482940061661655974875633165532288" = 1'-0"

1" = 12" SCALE: 1/43556142965880123323311949751266331064576" = 1'-0"

1" = 12" SCALE: 1/87112285931760246646623899502532662129152" = 1'-0"

1" = 12" SCALE: 1/174224571863520493293247799005065244258304" = 1'-0"

1" = 12" SCALE: 1/348449143727040986586495598010130488516608" = 1'-0"

1" = 12" SCALE: 1/696898287454081973172991196020260977033216" = 1'-0"

1" = 12" SCALE: 1/1393796574908163946345982392040521954066432" = 1'-0"

1" = 12" SCALE: 1/2787593149816327892691964784081043908132864" = 1'-0"

1" = 12" SCALE: 1/5575186299632655785383929568162087816265728" = 1'-0"

1" = 12" SCALE: 1/11150372599265311570767859136324175632531456" = 1'-0"

1" = 12" SCALE: 1/22300745198530623141535718272648351265062912" = 1'-0"

1" = 12" SCALE: 1/44601490397061246283071436545296702530125824" = 1'-0"

1" = 12" SCALE: 1/89202980794122492566142873090593405060251648" = 1'-0"

1" = 12" SCALE: 1/178405961588244985132285746181186810120503296" = 1'-0"

1" = 12" SCALE: 1/356811923176489970264571492362373620241006592" = 1'-0"

1" = 12" SCALE: 1/713623846352979940529142984724747240482013184" = 1'-0"

1" = 12" SCALE: 1/1427247692705959881058285969449494480964026368" = 1'-0"

1" = 12" SCALE: 1/2854495385411919762116571938898988961928052736" = 1'-0"

1" = 12" SCALE: 1/5708990770823839524233143877797977923856105472" = 1'-0"

1" = 12" SCALE: 1/11417981541647679048466287755595955847712210944" = 1'-0"

1" = 12" SCALE: 1/22835963083295358096932575511191911695424421888" = 1'-0"

1" = 12" SCALE: 1/45671926166590716193865151022383823390848843776" = 1'-0"

1" = 12" SCALE: 1/91343852333181432387730302044767646781697687552" = 1'-0"

1" = 12" SCALE: 1/182687704666362864775460604089535293563395375104" = 1'-0"

1" = 12" SCALE: 1/365375409332725729550921208179070587126790750208" = 1'-0"

1" = 12" SCALE: 1/730750818665451459101842416358141174253581500416" = 1'-0"

1" = 12" SCALE: 1/1461501637330902918203684832716282348507163000832" = 1'-0"

1" = 12" SCALE: 1/2923003274661805836407369665432564697014326001664" = 1'-0"

1" = 12" SCALE: 1/5846006549323611672814739330865129394028652003328" = 1'-0"

1" = 12" SCALE: 1/11692013098647223345629478661730258788057304006656" = 1'-0"

1" = 12" SCALE: 1/23384026197294446691258957323460517576114608013312" = 1'-0"

1" = 12" SCALE: 1/46768052394588893382517914646921035152229216026624" = 1'-0"

1" = 12" SCALE: 1/93536104789177786765035829293842070304458432053248" = 1'-0"

1" = 12" SCALE: 1/187072209578355573530071658587684140608916864106976" = 1'-0"

1" = 12" SCALE: 1/374144419156711147060143317175368281217833728213952" = 1'-0"

1" = 12" SCALE: 1/748288838313422294120286634350736562435667456427904" = 1'-0"

1" = 12" SCALE: 1/1496577676626844588240573288701473124871334912855808" = 1'-0"

1" = 12" SCALE: 1/2993155353253689176481146577402946249742669825711616" = 1'-0"

1" = 12" SCALE: 1/5986310706507378352962293154805892499485339651423232" = 1'-0"

1" = 12" SCALE: 1/11972621413014756705924586309611784998970679302846464" = 1'-0"

1" = 12" SCALE: 1/23945242826029513411849172619223569997941358605692928" = 1'-0"

1" = 12" SCALE: 1/47890485652059026823698345238447139995882717211385856" = 1'-0"

1" = 12" SCALE: 1/95780971304118053647396690476894279991765434422771712" = 1'-0"

1" = 12" SCALE: 1/191561942608236107294793380953788559983530868845543424" = 1'-0"

1" = 12" SCALE: 1/383123885216472214589586761907577119967061737691086848" = 1'-0"

1" = 12" SCALE: 1/766247770432944429179173523815154239934123475382173696" = 1'-0"

1" = 12" SCALE: 1/1532495540865888858358347047630308479868246950764347392" = 1'-0"

1" = 12" SCALE: 1/3064991081731777716716694095260616959736493901528694784" = 1'-0"

1" = 12" SCALE: 1/6129982163463555433433388190521233919472987803057389568" = 1'-0"

1" = 12" SCALE: 1/12259964326927110866866776381042467838945975606114779136" = 1'-0"

1" = 12" SCALE: 1/2451992865385422173373355276208493567789195121222945824" = 1'-0"

1" = 12" SCALE: 1/4903985730770844346746710552416987135578390242445891648" = 1'-0"

1" = 12" SCALE: 1/9807971461541688693493421104833974271156780484891783296" = 1'-0"

1" = 12" SCALE: 1/19615942923083377386986842209667948542313569769783566592" = 1'-0"

1" = 12" SCALE: 1/39231885846166754773973684419335897084627139539567133184" = 1'-0"

1" = 12" SCALE: 1/78463771692333509547947368838671778169254279079134266368" = 1'-0"

1" = 12" SCALE: 1/156927543384667019095894737677343556338508558158268532736" = 1'-0"

1" = 12" SCALE: 1/313855086769334038191789475354687112677017116316537065472" = 1'-0"

1" = 12" SCALE: 1/627710173538668076383578950709374225354034232633074130944" = 1'-0"

1" = 12" SCALE: 1/1255420347077336152767157901418748450708068465266148261888" = 1'-0"

1" = 12" SCALE: 1/2510840694154672305534315802837496901416136930532296523776" = 1'-0"

1" = 12" SCALE: 1/5021681388309344611068631605674993802832273861064593047552" = 1'-0"

1" = 12" SCALE: 1/10043362776618689222137263211349987605664547722129186095104" = 1'-0"

1" = 12" SCALE: 1/20086725553237378444274526422699975211329091444258372190208" = 1'-0"

1" = 12" SCALE: 1/40173451106474756888549052845399950422658182888516744380416" = 1'-0"

1" = 12" SCALE: 1/80346902212949513777098105690799900845316365777033488760832" = 1'-0"

1" = 12" SCALE: 1/160693804425899027554196211381599801690632731554066971521664" = 1'-0"

1" = 12" SCALE: 1/321387608851798055108392422763199603381265463108133943043328" = 1'-0"

1" = 12" SCALE: 1/642775217703596110216784845526399206762530926216267886086656" = 1'-0"

1" = 12" SCALE: 1/1285550435407192220433569691052798413525061852432535772173312" = 1'-0"

1" = 12" SCALE: 1/2571100870814384440867139382105596827050123704865071544346624" = 1'-0"

1" = 12" SCALE: 1/5142201741628768881734278764211193654100247409730143088693248" = 1'-0"

1" = 12" SCALE: 1/10284403483257537763468557528422387308200494819460286177386496" = 1'-0"

1" = 12" SCALE: 1/20568806966515075526937115056844774616400989638920572354772992" = 1'-0"

1" = 12" SCALE: 1/41137613933030151053874230113689549232801979277841144709545984" = 1'-0"

1" = 12" SCALE: 1/82275227866060302107748460227379098465603958555682289419091968" = 1'-0"

1" = 12" SCALE: 1/164550457732120604215496920454758196931207917111364578838183936" = 1'-0"

1" = 12" SCALE: 1/329100915464241208430993840909516393862415834222729157676367872" = 1'-0"

1" = 12" SCALE: 1/658201830928482416861987681819032787724831668445458315352735744" = 1'-0"

1" = 12" SCALE: 1/1316403661856964833723975363638065575449663336890916630705471488" = 1'-0"

1" = 12" SCALE: 1/2632807323713929667447950727276131150899326673781833261410942976" = 1'-0"

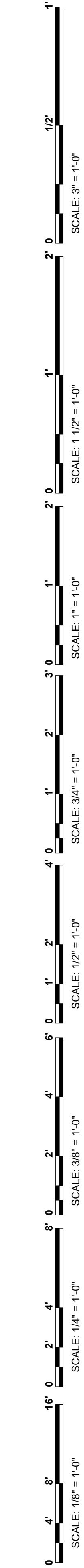
1" = 12" SCALE: 1/5265614647427859334895901454552262301798653347563666522821885952" = 1'-0"

1" = 12" SCALE: 1/10531229294855718669791802909104524603597306695127333045643771904" = 1'-0"

1" = 12" SCALE: 1/21062458589711437339583605818209049207194613390254666091287543808" = 1'-0"

1" = 12" SCALE: 1/42124917179422874679167211636418098414389226780509332182575087616" = 1'-0"

1" = 12" SCALE: 1/842498343588457493583344



ARCHITECTURAL ABBREVIATIONS

AB	ANCHOR BOLT	JAN	JANITOR CLOSET
ADD	ADDENDUM	LF	LINEAR FOOT
AFF	ABOVE FINISH FLOOR	LOC	LIMITS OF CONSTRUCTION
ALT	ALTERNATE	LP	LOW POINT
ARCH	ARCHITECTURAL		
		MACH	MACHINE
BLDG	BUILDING	MAINT	MAINTENANCE
BLKG	BLOCKING	MECH	MECHANICAL
BR	BEDROOM	MO	MASONRY OPENING
		MTD	MOUNTED
CG	CORNER GUARD	NA	NOT APPLICABLE
CI	CAST IRON	NIC	NOT IN CONTRACT
CJ	CONTROL JOINT	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT		
CONC	CONCRETE	OC	ON CENTER
CONF	CONFERENCE	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS	OH	OPPOSITE HAND
CONTR	CONTRACTOR		
CORR	CORRIDOR	PD	PARKING DRAIN
CR	CHAIR RAIL	PT	PRESSURE TREATED
CW	CASEWORK		
		R	RADIUS
DEFS	DIRECT APPLIED EXTERIOR FINISH SYSTEM	RE	REFER
DIA	DIAMETER	RECPT	RECEPTION
DWG	DRAWING	RES	RESIDENT
		RM	ROOM
EB	EXPANSION BOLT	RO	ROUGH OPENING
EJ	EXPANSION JOINT		
EL	ELEVATION	SA	SELF-ADHERING
ELEC	ELECTRICAL	SCHED	SCHEDULED
ELEV	ELEVATOR	SHT	SHEET
EPS	EXTRUDED POLYSTYRENE	SIM	SIMILAR
EQ	EQUAL	SPEC	SPECIFICATION
EQUIP	EQUIPMENT	STOR	STORAGE
EW	ELECTRIC WATER COOLER	STRUCT	STRUCTURAL
EXIST	EXISTING		
EXT	EXTERIOR	TLT	TOILET
		TOJ	TOP OF JOIST
F	FILLER	TOM	TOP OF MASONRY
FE	FIRE EXTINGUISHER	TOS	TOP OF STEEL
FE	FINISHED END	TOW	TOP OF WALL
FEC	FIRE EXTINGUISHER CABINET	TRN	TRAINING
FL	FLOOR	TYP	TYPICAL
FRT	FIRE RETARDANT TREATED		
FRP	FIBERGLASS REINFORCED POLYESTER	UNO	UNLESS NOTED OTHERWISE
FSD	FIRE SEPARATION DISTANCE	VEST	VESTIBULE
		VIF	VERIFY IN FIELD
GALV	GALVANIZED		
GWB	GYPSTUM WALL BOARD	W/	WITH
		WHL CHR	WHEELCHAIR
HORZ	HORIZONTAL	W/O	WITHOUT
HP	HIGH POINT	WRB	WEATHER RESISTANT BARRIER
HR	HOUR		
HR	HANDRAIL		
ID	INSIDE DIAMETER		
IL	INDEPENDENT LIVING		
INT	INTERIOR		
ISOL	ISOLATION		

ARCHITECTURAL SYMBOLS

	Dimension Line
	New Construction
	Building Elevation
	Limits Of Construction
	Earth
	Porous Fill (Stone Or Gravel)
	Cast-in-place Concrete
	Brick
	Concrete Masonry Units
	Steel
	Finish Wood
	Wood Blocking
	Plywood
	Batt Insulation
	Rigid Insulation
	Gypsum Wall Board
	Glass
	Sand, Cement, Grout

NOTE: THESE ARE STANDARD SYMBOLS AND ALL SYMBOLS NOTED ON THIS SHEET MAY NOT APPLY.

ARCHITECTURAL SYMBOLS

	North Symbol
	Column Grid Line
	Partition Information
	Door Information
	Room Information
	Plan & Vertical Section Reference
	Section Detail Reference
	Plan Detail Reference
	Enlarged Plan Reference
	InteriorElevation: Multiple Elevation
	Curtain Wall Type
	Glass Type
	Window Type
	Storefront Type
	Toilet Accessories
	Revision Number
	Plan Note
	Supplemental Drawing Reference Number
	Equipment Not In Contract
	Equipment Number
	Matchline
	Center Line
	Plan Spot Elevation

NOTE: THESE ARE STANDARD SYMBOLS AND ALL SYMBOLS NOTED ON THIS SHEET MAY NOT APPLY.

GENERAL NOTES



PROJECT TITLE
**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

SFCS Architecture
Engineering
Planning
Interiors

SFCS Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 • Fax 540.343.6925
www.sfcs.com

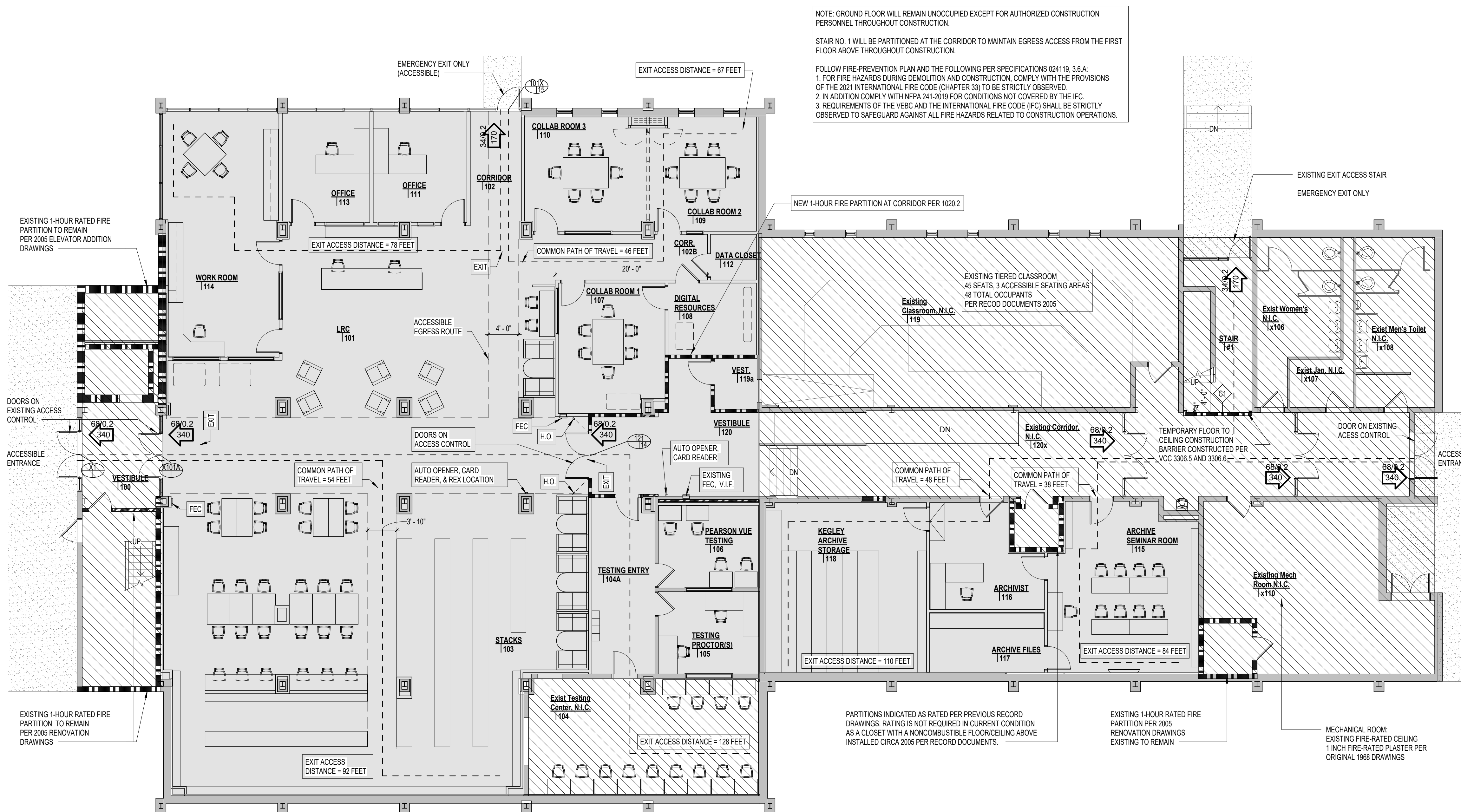
PROJECT DESIGNER	: BLB/CYW	
PROJECT ARCHITECT	: BLB	
PROJECT ENGINEER	: CIW/AMJ	
DRAWN BY	: BLB	
CHECKED BY	: DDP	
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
**PROJECT DATA,
SYMBOLS AND
ABBREVIATIONS**

COMM. NO. 20301.13	DATE JULY 16, 2025
-----------------------	-----------------------

DRAWING

A0.0



NOTES:

1. PER VCC 1004.9 - OCCUPANT LOAD SHALL BE POSTED FOR ASSEMBLY OCCUPANCY WHERE THE OCCUPANT LOAD IS GREATER THAN 50 OCCUPANTS.
2. SIGNAGE NOT IN CONTRACT. CONTRACTOR SHALL COORDINATE WITH OWNER AND OWNER'S REPRESENTATIVE TO PROVIDE OCCUPANCY LOAD SIGNAGE AS REQUIRED BY CODE.

EXISTING RATED PARTITIONS INDICATED HERE AS SHOWN ON PREVIOUS RECORD DRAWINGS. IF ALTERATIONS ARE REQUIRED, CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO ALTERATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONTRACT DOCUMENTS.



PROJECT CODE: #260-B4260-040

SFCS

SFCS Inc. ■ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ■ Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER	:	BLB/CYW
PROJECT ARCHITECT	:	BLB
PROJECT ENGINEER	:	AJM/CIW
DRAWN BY	:	BLB
CHECKED BY	:	DDP
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

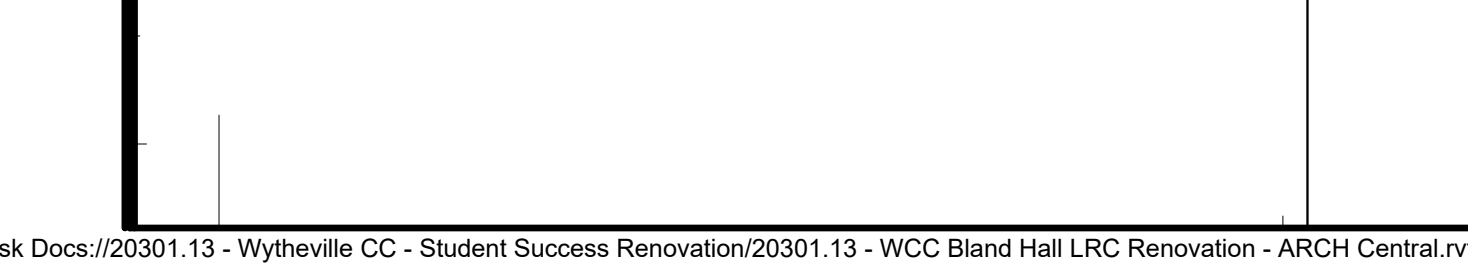
DRAWING TITLE

LIFE SAFETY PLAN

COMM. NO. 20301.13	DATE JULY 16, 2025
-----------------------	-----------------------

DRAWING

A0.1



This design was evaluated using a load design method other than the United States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the United States Design Method, such as Canada, a load restriction factor shall be used – See Guide EXUV or EXUV7 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.	Bearing Wall Rating – 4 HR. Design No. 0902 July 07, 2024
1. Clay Face Brick – 3-5/8 in. wide by 2-1/4 in. high by 8 in. long 1A. Concrete Blocks* – Various designs, Classification D-2 (2) hr. See Concrete Blocks category for list of eligible manufacturers. 2. Brick Ties – 3/4 in. wide, 7 in. long corrugated 26 MSG galv steel. Spaced one to each brick in every second course of blocks. 3. Mortar – Bricks and blocks laid in full bed of mortar min. 3/8 in. thick of not less than 2-1/4 and not more than 5-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by vol) and not more than 20% cement hydrated time (by cement vol) Vertical joints staggered. 4. Reinforcement – Parallel and diagonal rods, 1/16 in. min. diam with welded joints at max 16 in. OC. Placed the width of concrete block wall in every second course of blocks alternately with brick ties. 5. Masonry Reinforcement – Prefabricated steel reinforcement, truss or ladder type, used for embedment in every second horizontal mortar joint. Placed the full width of wall assembly. Side and cross rods No. 3 (0.160 in.) min diam with welded joints max 16 in. OC. 6. Concrete Blocks* – Various designs Classification D-2 (2) hr. See Concrete Blocks category for list of eligible manufacturers. 6. Foamed Plastic* – (Optional – Not shown with day face brick detail) Rigid polystyrene insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick having 1 in. min air space with face brick or blocks.	ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION – Type ThermoStar OC CELFORTICE LP OWENS CORNING SCIENCE AND TECHNOLOGY, LLC – Type 150 or 250 DUPONT DE NEMOURS, INC. – Type Styrofoam
6A. Foamed Plastic* – (Optional-Not shown with clay face brick detail) Rigid polycarbonate insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polycarbonate insulation, 4 in. thick having 1 in. min air space with face brick or blocks. ATLAS ROOFING CORP – EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Poly Pro, EnergyShield GFR, EnergyShield PanelCast, EnergyShield and EnergyShield XR DUPONT DE NEMOURS, INC. – Type ThermoShear, ThermoLight Duty Insulation, Thermo Heavy Duty Insulation, Thermo Metal Building Insulation, Thermo White Finish Insulation, Thermo C Exterior Insulation, Thermo XAMMO c Exterior Insulation, Thermo H Insulation, Thermo Plus Liner Panel, Thermo Heavy Duty Plus (HDP), TUFF-R® c Insulation, Thermo Butler Styrofoam Insulation Board and Thermo Maxx Heavy Duty Insulation Board Holcim Solutions and Products US, LLC – "Everwedge" C/Foal Exterior Wall Insulation" and "Everwedge" C/Glass Exterior Wall Insulation" HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC – Type "Xo Class At", "Xo 286", "Xo Foal (Class At)", "Xo CO", "Xo Foal", "Xo CS", "Xo Foal Nt" RMX, A BUSINESS UNIT OF SKA CORPORATION – Type "TSX-8500", "ECONOMAXiGR", "TSX-8510", "ECONOMAXiR White", "ECONOMAXiR", "ECONOMAXiR FR Barrier", "Thermaseal-SP", "Thermaseal-SP", "Duraseal" JOHNS MANVILLE – Type "AP Foal-Foamed Foam Sheathing"	ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION – Type ThermoStar OC CELFORTICE LP OWENS CORNING SCIENCE AND TECHNOLOGY, LLC – Type 150 or 250 DUPONT DE NEMOURS, INC. – Type Styrofoam
6B. Foamed Plastic* – (Optional-Not shown with clay face brick detail). Two-component foamed plastic formed from NCFI 11401, NCFI 11402, NCFI 11415, NCFI 11416 or NCFI 11417 spray applied between brick and/or concrete blocks at a nominal density of 2.1 p.c.f. 4 in. thick, max, having a 1 in. min air space with face brick or blocks. NCFI POLYURETHANES 6C. Foamed Plastic* – (Optional-Not shown with clay face brick detail). Spray applied, foamed plastic insulation spray applied between brick and/or concrete blocks, having a 1 in. min air space with face brick or blocks. BAFSC CORP – Everwedge M, Everwedge G, FE136, Everwedge M18, Sprayfoam 81206, Walltite® 200, Walltite® US, Walltite® USA, FE1376, FE1385, Sprayfoam 155, Sprayfoam SP, Sprayfoam 81205, Sprayfoam Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LVF, Walltite® Plus, Everwedge SP 6D. Building Unit* – (Optional-Not shown with clay face brick detail). Rigid polycarbonate composite insulation for use between brick and/or concrete blocks. ATLAS ROOFING CORP – EnergyShield Poly HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC – Type "Xo NtB" and "Xo Poly" LAMINATORS INC – Type "Omega c" RMX, A BUSINESS UNIT OF SKA CORPORATION – "Thermaseal-SP", "ECOBASER", "ThermiBase-OT", "ThermiBase-OT", "ECONOMAXiGR", "ECONOMAXiGR"	ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION – Type ThermoStar OC CELFORTICE LP OWENS CORNING SCIENCE AND TECHNOLOGY, LLC – Type 150 or 250 DUPONT DE NEMOURS, INC. – Type Styrofoam
6E. Foamed Plastic* – (Optional-Not shown with clay face brick detail) – Expanded polystyrene insulation installed to a maximum nominal density of 2.0 p.c.f. BAFSC CORP STYRENE FOAMS DUV – Types Neopren GPS (Roofing Board), Neopren GPS (EIFS), Neopren GPS (Stucco), Neopren GPS (CI), Neopren GPS (IE), Neopren GPS (Perma-R-Chrome), Neopren GPS (Fertile Treated), Neopren GPS (HALO Stucco), Neopren GPS (Foundation Pro), Neopren GPS (HALO Exterior), Neopren GPS (HALO Interior), Neopren GPS (PFT Pro Board), Neopren GPS (PFT Red Label), and Neopren GPS (PFT Chrome). 6F. Insulation* – (Optional – Not shown – Used in lieu of item 6) – Mineral wool insulation boards, min. 1 inch thick, max. 4 in. thick. THEMERFERBROWNS CORNING – Types BarrierBase-4R, BarrierBase HD, BarrierBase R High Compressive, Rain Barrier c High Compressive Plus, RainBarrier c High Compressive Max 6G. Insulation – Mineral and Fiber Boards – (Optional – Not shown – Used in lieu of item 6) – Mineral wool insulation boards, min. 1 inch thick, max. 4 in. thick. 6H. Insulation* – Type CavityGuard, CavityGuard MD or CavityGuard Block 7. Wall and Partition Facing and Accessories – (Not Shown) Installed in accordance with the manufacturers installation instructions. Min. 0.25 (8 in.) mm thick panel fastened to the exterior surface. KEENE BUILDING PRODUCTS CO INC – Types Driwall RainScreen 20, Driwall RainScreen 10 and CAVA-AR	ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION – Type ThermoStar OC CELFORTICE LP OWENS CORNING SCIENCE AND TECHNOLOGY, LLC – Type 150 or 250 DUPONT DE NEMOURS, INC. – Type Styrofoam
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2024-07-07 The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow-Up Service. Only products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow-Up Service. Always look for the Mark on the product. UL Solutions permits the reproduction of the material contained in Product Catalogs subject to the following conditions: 1. The Guide information, Assemblies, Connections, Designs, Systems, and/or Certifications (Items) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data or drawings; 2. The statement "Reprinted from Product Catalog with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL Solutions".	ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION – Type ThermoStar OC CELFORTICE LP OWENS CORNING SCIENCE AND TECHNOLOGY, LLC – Type 150 or 250 DUPONT DE NEMOURS, INC. – Type Styrofoam

System No. HW-06564 July 02, 2012		ANJUL02079 Assembly Rating — 1 and 2 Hr (See Item 7) Normal Joint Width — 1 in. Class II or III Movement Capabilities — 19 % Compression or Extension		CAN/ULC R1515 F Rating — 1 and 2 Hr (See Item 7) FH Rating — 1 and 2 Hr (See Item 7) FTH Rating — 1 and 2 Hr (See Item 7) Normal Joint Width — 1 in. Class II or III Movement Capabilities — 19 % Compression or Extension			
		1. Floor Assembly — Min 2-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units. See Precast Concrete Units category in the Fire Resistance Directory for names of manufacturers. 2. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features: A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B) Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner secured with masonry anchors or steel fasteners spaced 24 in. (610 mm) OC. A1. Light Gauge Framing* — Slotted Ceiling Runner - As an alternate to the ceiling runner in Item 2A, slotted ceiling runner consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner secured to valleys lower surface of wall with steel fasteners spaced max 24 in. (610 mm) OC. CALIFORNIA EXPANDED METAL PRODUCTS CO. — CST MARINOWARE, DIV OF WARE INDUSTRIES INC. — Type SLT A2. Light Gauge Framing* — Vertical Deflection Ceiling Runner - As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner secured to lower surface of wall with steel fasteners spaced max 24 in. (610 mm) OC. THE STEEL NETWORK INC. — VertiTrack VTD250, VTD382, VTD400, VTD600 and VTD800 B. Studs — Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 3/4 to 1 in. (19 to 25 mm) less in length than assembly height with bottom resting in and resting on floor runner and with top resting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wall head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each stud. Stud spacing not to exceed 24 in. (610 mm) OC. C. Gypsum Board* — For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board is required in the individual Wall and Partition Design. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of gypsum board and bottom of concrete floor or steel fluted floor units. The screws attaching the gypsum board to the studs at the top of the first layer shall be located 4 in. (102 mm) below the floor. The screws attaching the second layer to the steel studs shall be installed in the studs 3-1/2 in. (89 mm) below the floor. The hourly fire rating of the joint system is dependent on the hourly ratings of the walls. 3. Packing Material — Polyethylene backed non friction felt joints joint opening. Packing material to be recessed from both surfaces of walls to accommodate the required thickness of felt material. 4. Fill Void in Ceiling Material Sealant* — Max separation between bottom of floor and top of wall is 1 in. (25 mm). The joint system is designed to accommodate a max 19 percent compression or extension from its installed width. Min 1/4 in. (6 mm) depth of fill material applied within joint opening on both sides of wall flush with both surfaces of wall. HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC. — CR606 Flexible Firestop Sealant. * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.					
Last Updated on 2012-07-02		The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow-Up Service. Always look for the Mark on the product. UL Solutions permits the reproduction of the material contained in Product Cut subject to the following conditions: 1. The Guide Information, Assemblies, Connections, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product Cut with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2020 UL LLC."					

System No. HW-D0432
 June 27, 2023

ANSI/A520.9		CAN/ULC S115	
Assembly Rating – 2 Hr		F Rating – 2 Hr	
Non-Load Rating – 2 Hr		FT Rating – 2 Hr	
Class I Movement Capabilities – 8% Compression and Extension		PH Rating – 2 Hr	
I Rating At Ambient – Less Than 1 CPM/in R		FTI Rating – 2 Hr	
I Rating At 400°F – Less Than 1 CPM/in R		Nominal Joint Width – 1 in	
		Class I Movement Capabilities – 8% Compression and Extension	
		I Rating At Ambient – Less Than 1 CPM/in R	
		I Rating At 400°F – Less Than 1 CPM/in R	

1. Floor Assembly – Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*.
2. Shaft Wall Assembly – The 2 hr fire-rated gypsum board steel stud shaft wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

- A. Floor and Ceiling Runners – J-shaped runner, 2-1/2 in. (64 mm) wide with unequal legs of min 1-1/4 in. (32 mm) and 2 in. (51 mm), fabricated from min 24 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached by structural supports with steel fasteners located not greater than 2 in. (51 mm) from ends and not greater than 24 in. (610 mm) R.
- B. Light Gauge Framing* – Stotted Ceiling Track – (Optional) Stotted ceiling track consist of galv steel channels with stotted flanges. Stotted ceiling track sized to accommodate steel C-H studs (Items 2C). Attached to concrete at ceiling with steel fasteners spaced max 24 in. (610 mm) R.

CEMCO, LLC – CST

MARINOWARE, DIV OF WARE INDUSTRIES INC. – Type SLT

- B1. Light Gauge Framing Members* – (Optional Not Shown) – As an option, the steel studs (Item 2C) may incorporate vertical deflection clips for attachment to the ceiling runner (Item 2A) in accordance with the manufacturer's instructions.

THE STEEL NETWORK INC. – VentClip SLD 150.

- C. Steel Studs – C-H shaped studs, 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min 25 MSG galv steel, cut to lengths 36 to 112 in. (10 to 13 mm) less than floor to ceiling height and spaced 24 in. (610 mm) OC. Studs must floor runner at bottom and J runner or stotted ceiling track at top. After installation of gypsum board (Item 2D), studs secured to floor runner on finished side of wall only with No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping steel screws. Studs secured to J-shaped ceiling track on finished side of wall only with No. 8 by 1/2 in. (13 mm) long self-drilling, self-tapping wedge head steel screws at 60" midheight.
- D. Gypsum Board* – 1 in. (25 mm) thick by 24 in. (610 mm) wide gypsum board liner panels as specified in the individual U400 or V400-Series design. Panels cut 1 in. (25 mm) less in length than floor to ceiling height. Vertical edges inserted in T-shaped section of C-H studs. At the ends of the assembly, the free edge of the end panels are attached to the long leg of finished J-runners (Item 2A) with 1-5/8 in. (41 mm) long Type S steel sheet screws spaced max 12 in. (305 mm) OC.
- E. Gypsum Board* – Gypsum board studs, 1/2 to 5/8 in. (13 to 16 mm) thick, applied vertically or horizontally in two layers on finished side of wall as specified in the individual U400 or V400-Series design. A max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the concrete floor. The screws attaching the gypsum board layers to the C-H studs shall be located 1 in. (25 mm) below the bottom of the J-runner or stotted ceiling track. No gypsum board attachment screws are to penetrate the ceiling J-runner and stotted ceiling track.

- F. Joint System – Max separation between top of liner panel (Item 2D) and between top of gypsum board sheets (Item 2E) time of installation of joint system is 1 in. (25 mm). The joint system is designed to accommodate a maximum 8 percent compression and extension from its installed width. The joint system consists of the following:
 - A. Fill Void or Cavity Material* – Sealant – Min 1 in. (25 mm) depth of sealant to be installed to fill liner gap between top of gypsum board (Item 2D) and top inside surface of ceiling J-runner or stotted ceiling track prior to installation of gypsum board (Item 2E) on finished side of wall. Min 1 in. (25 mm) depth of sealant to be installed to fill liner gap between top of gypsum board sheets (Item 2D) and bottom of concrete floor.

HELTI CONSTRUCTION CHEMICALS, DIV OF HELTI INC. – CP-066, CFS-S SIL GEL

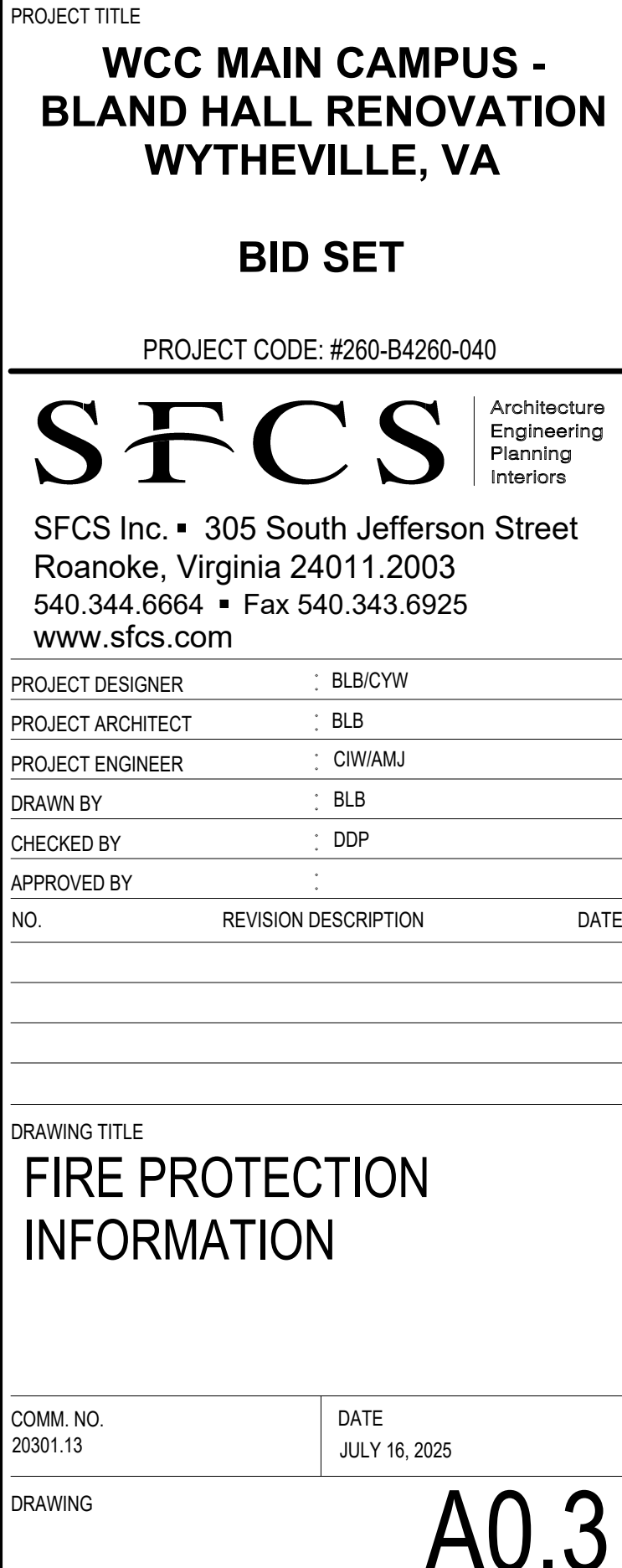
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2023-06-26

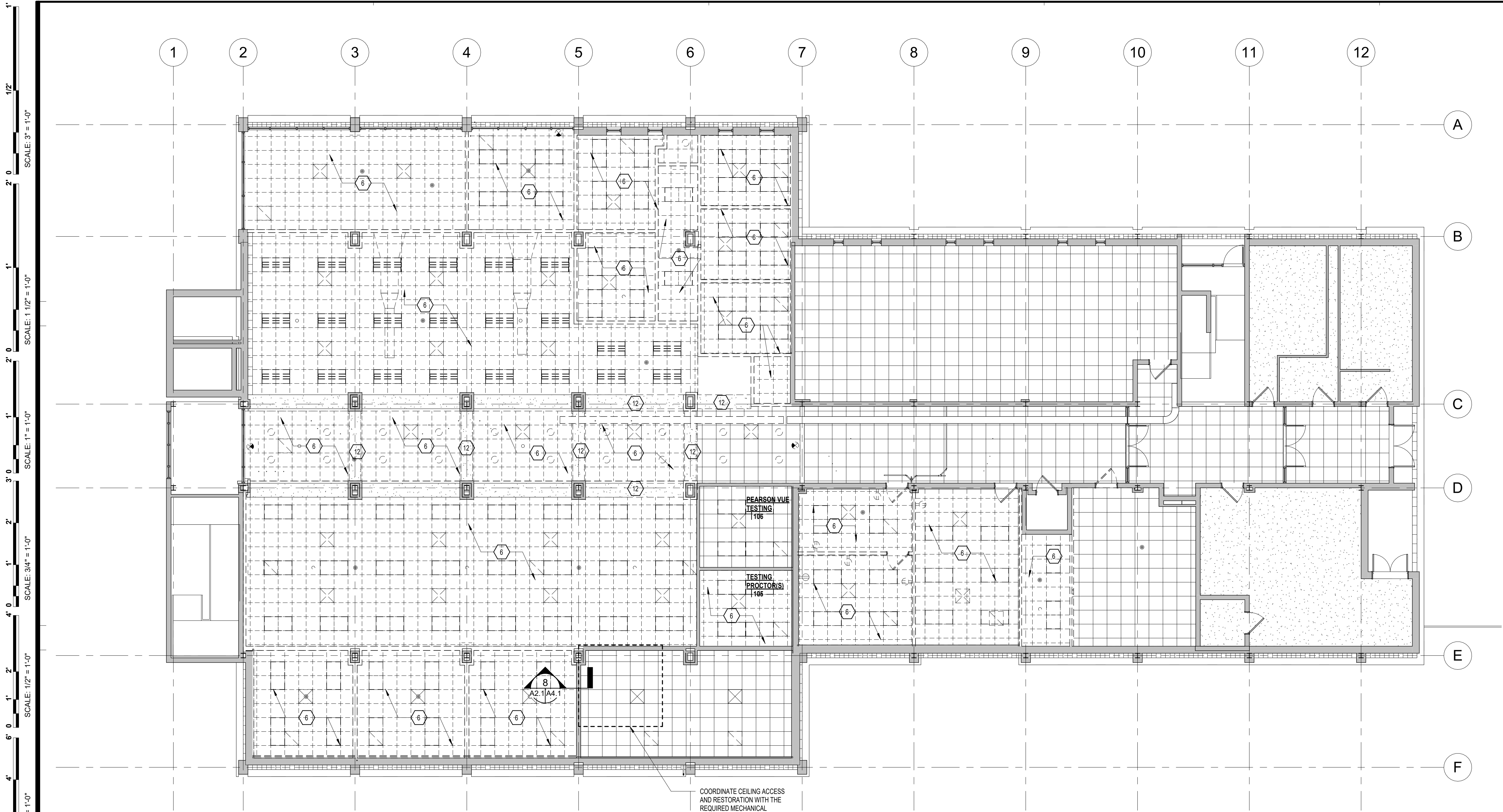
The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow-Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the materials contained in Product(s) for subject to the following conditions: 1. The Guid Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any implication of the UL (or drawings). 2. The statement "Reprinted from Product(s) with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

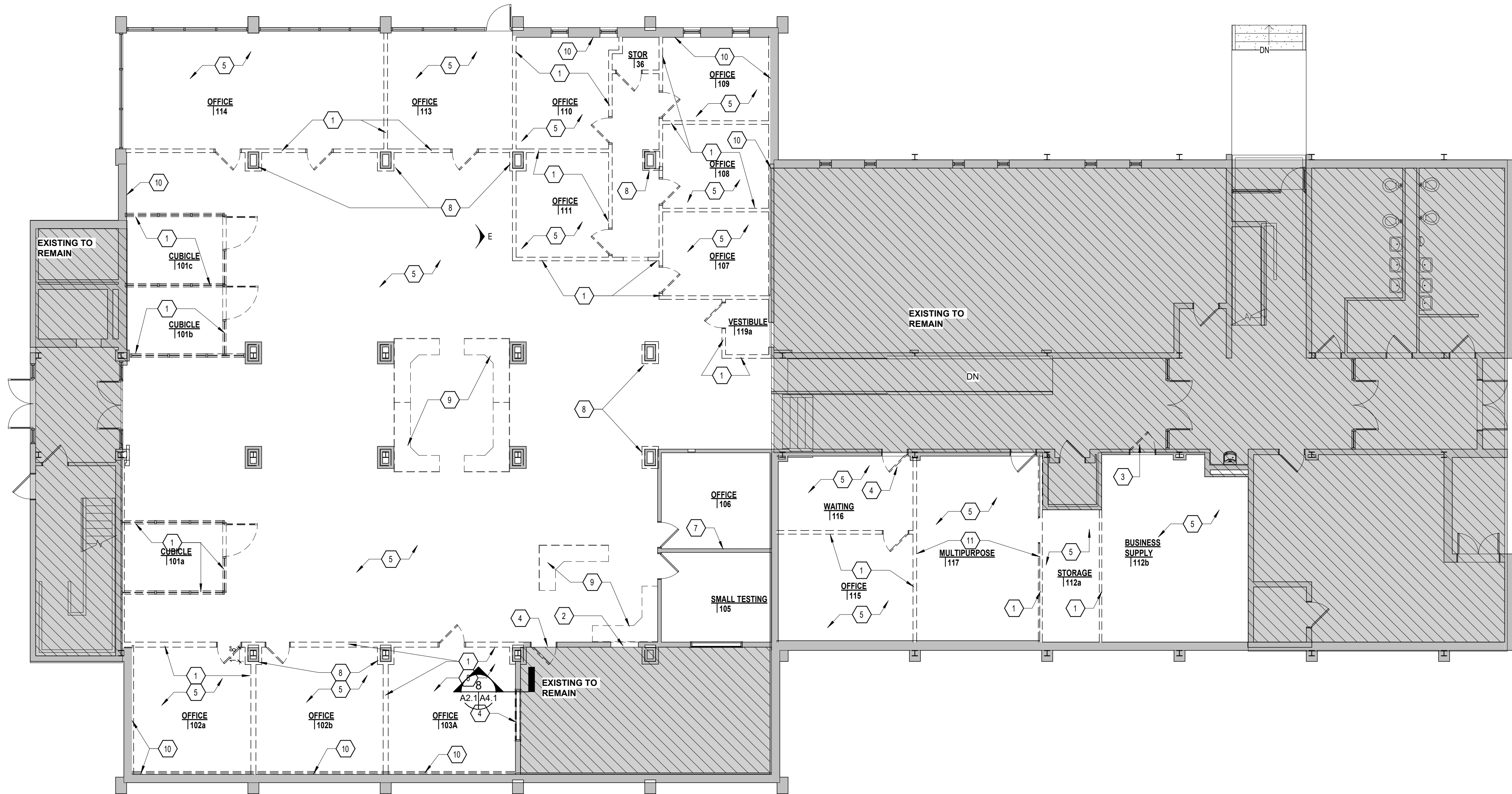
ANSI/UL2079		System No. BW-S-0023 January 15, 2002	CAN/ULC 5115
Assembly Ratings — 1 and 2 Hr (See Item 2)			F Ratings — 1 and 2 Hr (See Item 2)
Normal Joint Width — 3/4 in. (20 mm)			FT Ratings — 1 and 2 Hr (See Item 2)
L Rating at Ambient — 1.83 CM/lin ft			FTM Ratings — 1 and 2 Hr (See Item 2)
L Rating at 400°F — Less than 1 CM/lin ft			Normal Joint Width — 3/4 in.
			L Rating at Ambient — Less than 1 CM/lin ft
			L Rating at 400°F — Less than 1 CM/lin ft
1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m ³) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*.			
See Precast Concrete Units category in the Fire Resistance Directory for names of manufacturers.			
2. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:			
A. Steel Floor Runner — Floor runners of wall assembly shall consist of min No. 25 galvanized galneel channels selected to accommodate steel studs (Item 2). Floor runners to be provided with min 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 12 in. (305 mm) OC.			
B. Studs — Steel studs to be min 2 in. (51 mm) wide. Studs of 12 to 3/4 in. (13 to 19 mm) flange in length than assembly height with bottom nesting in, resting on and fastened to floor runner with steel metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.			
C. Gypsum Board — Gypsum board installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of wall for a 1 or 2 hr rated wall, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that max 24 in. (19 mm) gage that be maintained between the bottom of gypsum board and top of concrete floor. The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.			
3. Fill Void or Cavity Material* — Mass separation between top of floor and bottom of gypsum board to 34 in. (19 mm) for 1 or 2 hr rated wall assemblies, min 5/8 in. or 1-1/4 in. (16 or 144 mm) thickness of mineral material, respectively, installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each side of the wall.			
HLTI CONSTRUCTION CHEMICALS, DIV OF HLTI INC. — CP-015 Eastern Firestop Sealant, CP-066 Flexible Firestop Sealant, CP-5-S GLG, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant			
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada). Last Updated on 2015-01-26 The appearance of a complete name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Factory Use Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Factory Use Service. Always look for the UL Mark on the product.			
UL Solutions permits the reproduction of the material contained in Product (if) subject to the following conditions: 1. The Guid Information, Assembly, Construction, Design, Systems, and/or Certifications (Item) must be presented in their entirety and in the same form as they appear in this database. 2. The reproduction of the material must be for the purpose of providing information with permission from UL Solutions' must appear adjacent to the extruded material. In addition, the reprinted material must include a copyright notice in the following format: "©2004 UL LLC."			
ANSI/UL2079		System No. BW-S-0023 January 15, 2002	CAN/ULC 5115
Assembly Ratings — 1 and 2 Hr (See Item 2)			F Ratings — 1 and 2 Hr (See Item 2)
Joint Width — 3/4 in. (20 mm) (See Item 3)			FT Ratings — 1 and 2 Hr (See Item 2)
L Rating at Ambient — 1.83 CM/lin ft			FTM Ratings — 1 and 2 Hr (See Item 2)
L Rating at 400°F — 1.33 CM/lin ft			Normal Joint Width — 3/4 in.
			L Rating at Ambient — 2.55 CM/lin ft
			L Rating at 204°C — 2.05 CM/lin ft
1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m ³) structural concrete.			
2. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:			
A. Floor and Ceiling Runners — L-shaped runner, 2-1/2 in. (64 mm) wide with unequal legs of min 1-1/4 in. (32 mm) and 2 in. (51 mm), fabricated from min 24 MS galvanized galneel channels selected for short to long toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. (51 mm) from ends and not greater than 12 in. (305 mm) OC.			
B. Studs — C-shaped studs, 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min 25 MS galvanized galneel steel, cut to lengths 3/8 to 12 in. (10 to 15 mm) less than floor to ceiling height and spaced 24 in. (610 mm) OC. Studs installed floor runner at bottom and 1 runner or slootted ceiling cut top. After installation of gypsum board linear panels (Item 2C), studs secured to ceiling of floor of slootted ceiling cut wall only with No. 8 by 12 in. (13 mm) long self-drilling, self-tapping steel screws. Studs secured to flange of slootted ceiling track on finished side of wall only with No. 8 by 12 in. (13 mm) long self-drilling, self-tapping weather head steel screws at end of midheight.			



A0.3



1 DEMO RCP - GROUND FLOOR
AD1.0 1/8" = 1'-0"



2 GROUND FLOOR - DEMO PLAN
AD1.0 1/8" = 1'-0"

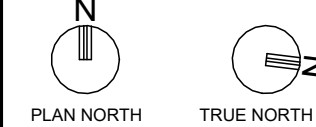
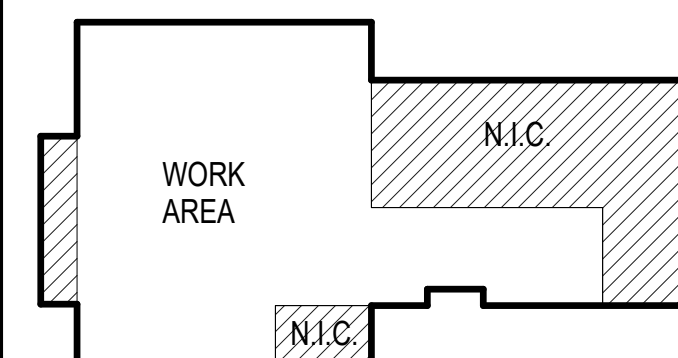
GENERAL DEMOLITION NOTES

- BEFORE WORK HAS BEGUN, CONTRACTORS SHALL MAKE A THOROUGH SURVEY OF THE BUILDING AND NOTIFY THE OWNER IN WRITING OF ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS. FAILURE BY THE CONTRACTOR TO HAVE ACQUAINTED HIMSELF WITH AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITIES OF PERFORMANCE OF WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THESE DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND NOTIFY THE ARCHITECT IN WRITING OF ANY WORK DESCRIBED IN THE CONTRACT DOCUMENTS WHICH CANNOT BE PERFORMED DUE TO EXISTING CONDITIONS.
- PROTECT FROM DAMAGE ALL MATERIALS TO REMAIN.
- CONTRACTOR SHALL USE CAUTION WHEN PERFORMING DEMOLITION AT OR NEAR FIRE-RATED WALLS OR SHAFTS SO AS NOT TO DISRUPT INTEGRITY OF THE FIRE RATINGS OF THE WALLS OR SHAFTS AND REPAIR DAMAGE TO WALLS OR SHAFTS AS REQUIRED, TO ENSURE CONDITIONS RATINGS REPAIR ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW FINISH.
- DEMOLITION WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THOSE ITEMS NOTED. OTHER ITEMS OF A MINOR NATURE WHICH MAY EXIST BUT ARE NOT SPECIFICALLY NOTED ON THE DRAWINGS ARE TO BE REMOVED AS REQUIRED, TO PROVIDE ACCESS AND ALLOW ALTERATION OR NEW WORK TO PROCEED. REPAIR ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW FINISHES.
- NOT ALL MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT WHICH IS REQUIRED TO BE REMOVED IS SHOWN. CONTRACTOR SHALL REMOVE ALL SUCH EQUIPMENT WHICH WILL INTERFERE WITH NEW CONSTRUCTION. EQUIPMENT WHICH WILL NO LONGER BE USED (E.G. PIPES, CONDUITS AND DUCTS) SHALL BE REMOVED COMPLETELY BACK TO THE POINT OF SERVICE AND CAPPED OR PLUGGED. ALSO SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.
- IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED BY THE GENERAL CONTRACTOR, INCLUDING BUT NOT LIMITED TO MATERIALS CONTAINING ASBESTOS, LEAD PAINT, ETC., WORK IS TO BE STOPPED AND THE ARCHITECT IMMEDIATELY NOTIFIED.
- WHERE PLUMBING FIXTURES ARE NOTED TO BE REMOVED, ALL ASSOCIATED TOILET ACCESSORIES SHALL ALSO BE REMOVED.
- REMOVE OR MODIFY EXISTING CONSTRUCTION AS SHOWN. TYPICAL WALL AND CEILING REMOVAL INCLUDES FINISHES, TRIM, BASES, DOORS AND FRAMES. MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS CONTAINED THEREIN UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING DEVICES (SWITCHES, RECEPTACLES, TELEPHONE, CONDUIT, WIRE, ETC.) IN EXISTING WALLS TO BE REMOVED. REMOVE EXISTING LIGHT FIXTURES, DIFFUSERS, SPEAKERS, CONDUIT, WIRE, ETC. WHERE EXISTING CEILING IS TO BE REMOVED, SAW CUT SLAB ON GRADE AS REQ'D TO ACCOMMODATE NEW UNDERGROUND UTILITY LINES AND PATCH SLABS FLUSH W/ EXIST. DOWEL NEW EXIST AS REQ'D TO PREVENT SETTLEMENT.
- AREAS OF EXISTING SURFACES NOT SCHEDULED FOR DEMOLITION WHICH BECOME DAMAGED, SHALL BE PATCHED OR REPAIRED TO MATCH ADJACENT SURFACE THICKNESS, FINISH AND TEXTURE. NEW WORK SHALL BE PRIMED PRIOR TO RECEIVING FINISH COATS.
- ALL EXISTING WALLS AND PARTITIONS THAT ARE SCHEDULED TO REMAIN AND RECEIVE NEW FINISHES SHALL BE PATCHED, REPAIRED, OR RESURFACED AS REQUIRED TO PROVIDE A SMOOTH SURFACE FOR THE NEW FINISHES. REPAIR ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW FINISH.
- ALL EXISTING FLOOR AND WALL SURFACES THAT HAVE BEEN DAMAGED BY THIS RENOVATION SHALL BE REPAIRED OR PATCHED TO MATCH THEIR FINISH PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF DEMOLITION OF EXISTING CONCRETE SLAB FOR THE INSTALLATION OF PLUMBING WORK. REFER TO PLUMBING DRAWINGS FOR EXTENT OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SHORING AND BRACING NECESSARY TO PROTECT EXISTING CONSTRUCTION TO REMAIN. CONTRACTOR SHALL PROVIDE SUFFICIENT SHORING AND BRACING AS REQUIRED TO SUPPORT LOADS IMPOSED OR RESULTING FROM DEMOLITION WORK. REFER TO SPECIFICATION SECTION 02150 AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- RENOVATION OR EXTENSIONS OF EXISTING SYSTEMS MAY REQUIRE WORK IN AREAS NOT NOTED WITHIN THE SCOPE. FLOORS, CEILINGS, AND WALLS AFFECTED BY ADJACENT CONSTRUCTION SHALL BE REPAIRED AS STATED ABOVE.

DEMOLITION KEY NOTES

- REMOVE PARTITION IN ITS ENTIRETY, INCLUDING ALL FIXTURES AND DEVICES.
- REMOVE PARTITION AS INDICATED TO ACCOMMODATE NEW DOOR AND FRAME.
- REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. PREP OPENING FOR NEW DOOR AND FRAME.
- REMOVE EXISTING DOOR OR WINDOW IN ITS ENTIRETY, INCLUDING ANY SIDE LIGHTS OR TRANSOMS. INFILL WITH SIMILAR CONSTRUCTION AS ADJACENT WALL.
- REMOVE FLOOR FINISH IN ITS ENTIRETY AND PREPARE SUBSTRATE TO ACCEPT NEW FINISH.
- REMOVE CEILING IN ITS ENTIRETY INCLUDING ALL LIGHT FIXTURES, HVAC ELEMENTS, HANGERS, SUPPORTS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF ABOVE CEILING DEMOLITION AND/OR RETENTION.
- REMOVE PARTITION AS INDICATED TO ACCOMMODATE NEW WINDOW.
- REMOVE GWB AND METAL STUD COLUMN SURROUND IN ITS ENTIRETY. RETAIN MASONRY COLUMN SURROUND INTACT.
- REMOVE CASEWORK IN ITS ENTIRETY.
- REMOVE ALL EXISTING WALL FINISH AND FURRING TO MASONRY SUBSTRATE. PREPARE SUBSTRATE TO ACCEPT NEW FINISH.
- CAP, FILL, AND REPAIR FLOOR AS REQUIRED TO BE SMOOTH AND LEVEL ACROSS DEMOLISHED PARTITIONS SUCH THAT SUBSTRATE IS CONSISTENT AND LEVEL TO ACCEPT NEW FINISH FLOORING.
- DEMOLISH BULKHEAD BETWEEN COLUMNS. RETAIN AND REPAIR FINISH AT ADJACENT WALL AS REQUIRED TO COORDINATE WITH NEW BULKHEAD.

KEYPLAN



PLAN NOTES

GENERAL NOTES

- REFER TO COVER SHEET FOR REQUIRED ASBESTOS AND LEAD STATEMENTS.



PROJECT TITLE

WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA

BID SET

PROJECT CODE: #260-B4260-040

SFCS

Architecture
Engineering
Planning
Interiors

SFCS Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011 2003
540.344.6664 • Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER	: BLB/CYW	
PROJECT ARCHITECT	: BLB	
PROJECT ENGINEER	: CW/AM	
DRAWN BY	: BLB	
CHECKED BY	: DDP	
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GROUND FLOOR
DEMOLITION PLANS

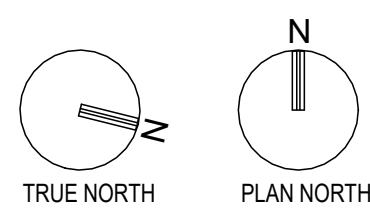
COMM. NO.

20301.13

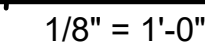
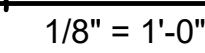
DATE

JULY 16, 2025

DRAWING

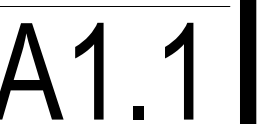


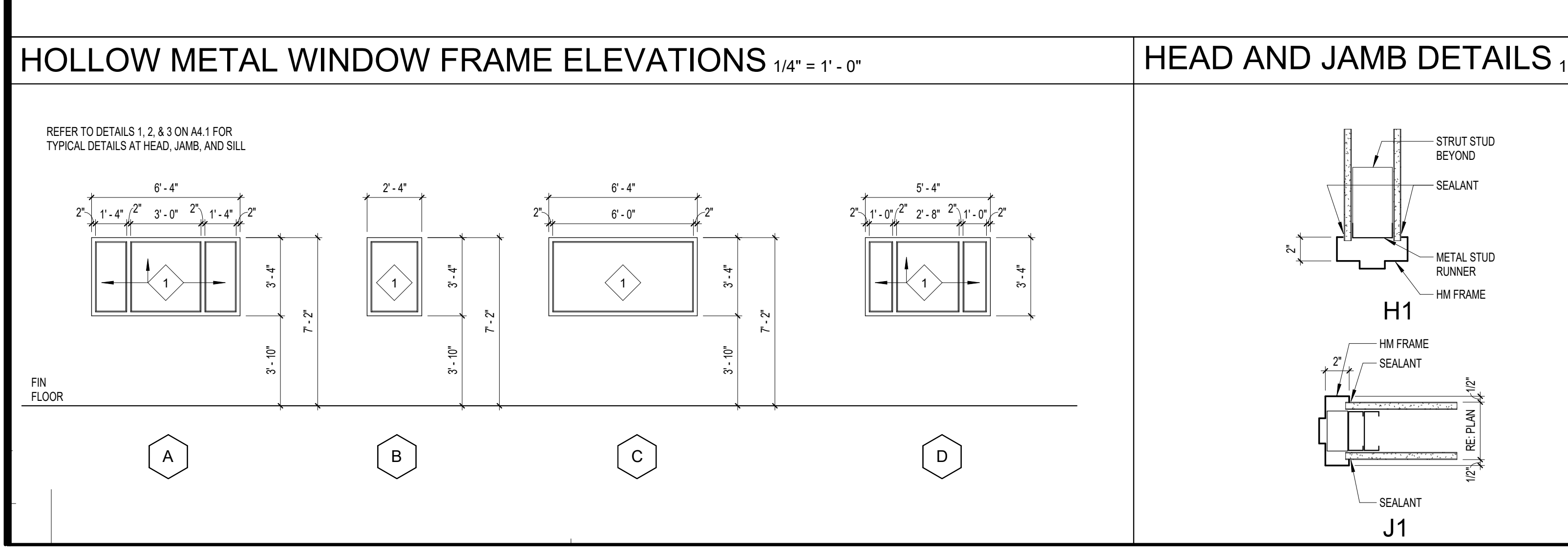
AD1.0



-  PAINTED GYPSUM BOARD
-  SUSPENDED ACOUSTIC CEILING SYSTEM
-  RECESSED TROFFER
-  RECESSED DOWNLIGHT
-  SURFACE FIXTURE LIGHT
-  CEILING DIFFUSER
-  CEILING RETURN
-  CEILING OUTLET
-  CEILING DATA
-  SMOKE DETECTOR
-  SPEAKER
-  FIRE ALARM SPEAKER - CEILING MOUNTED
-  EXIT SIGN
-  SUSPENDED LINEAR LIGHT FIXTURE
-  WIRELESS ACCESS POINT
-  OCCUPANCY SENSOR
-  FIXED SECURITY CAMERA

1	EXISTING TO REMAIN	7	10' - 4" A.F.F.
2	8' - 0" A.F.F.	8	10' - 6" A.F.F.
3	9' - 0" A.F.F.	9	11' - 0" A.F.F.
4	9' - 6" A.F.F.	10	11' - 8" A.F.F.
5	11' - 0" A.F.F.	11	10' - 0" A.F.F.
6	10' - 1" A.F.F.	12	8' - 10" A.F.F.
		13	SUSPENDED CEILING BAFFLE





DOOR SCHEDULE													
ROOM	ELEV	TYPE	DOOR		FIRE RATING	FRAME			HARDWARE			ACCESS CNTRL	Comments
			WIDTH	HEIGHT		ELEV	HEAD	JAMB	Frame Material	HDWR SET	CLOS		
101X	FG	AL	3'-0"	7'-2"		EXIST	EXIST		N/A				EXIST EGRESS DOOR REMAINS - NO WORK
104	FG	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
104A	FG	WD	3'-0"	7'-0"	20 MIN	1	H1	J1	HM	OFFICE	YES		
105X	F	WD	3'-0"	7'-0"		EXIST	EXIST		OFFICE				EXIST DOOR AND FRAME REMAINS. NEW LOCKSET ONLY
106X	F	WD	3'-0"	7'-0"		EXIST	EXIST		STOR				EXIST DOOR AND FRAME REMAINS. NEW LOCKSET ONLY
107	FG	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
108A	F	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
108B	F	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
109	FG	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
110	FG	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
111	FG	WD	3'-0"	7'-0"		1	H1	J1	HM	OFFICE			
112	F	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
113	FG	WD	3'-0"	7'-0"		1	H1	J1	HM	OFFICE			
114A	FG	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
114B	FG	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
115	NV	WD	3'-0"	7'-0"	20 MIN	2	H2	J2	HM	STOR	YES		EXIST OPENING W/ NEW FRAME & DOOR
116A	NV	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
117	NV	WD	3'-0"	7'-0"		1	H1	J1	HM	OFFICE			
118	NV	WD	3'-0"	7'-0"		1	H1	J1	HM	STOR			
119A	NV	WD	3'-0"	7'-0"	20 MIN	1	H1	J1	HM	STOR	YES		
121	HG	WD (2)	3'-0"	7'-0"	20 MIN	1	H1	J1	HM		YES	YES	

GENERAL NOTES

1. DOORS ARE TO BE INSTALLED SO THE BACK OF THE FRAME IS 4" TYPE TO FACE OF WALL AT INSIDE CORNER, UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GLAZING SHALL BE GLASS TYPE 1 - 1/4" THICK CLEAR FULLY TEMPERED SAFETY GLASS, U.N.O.

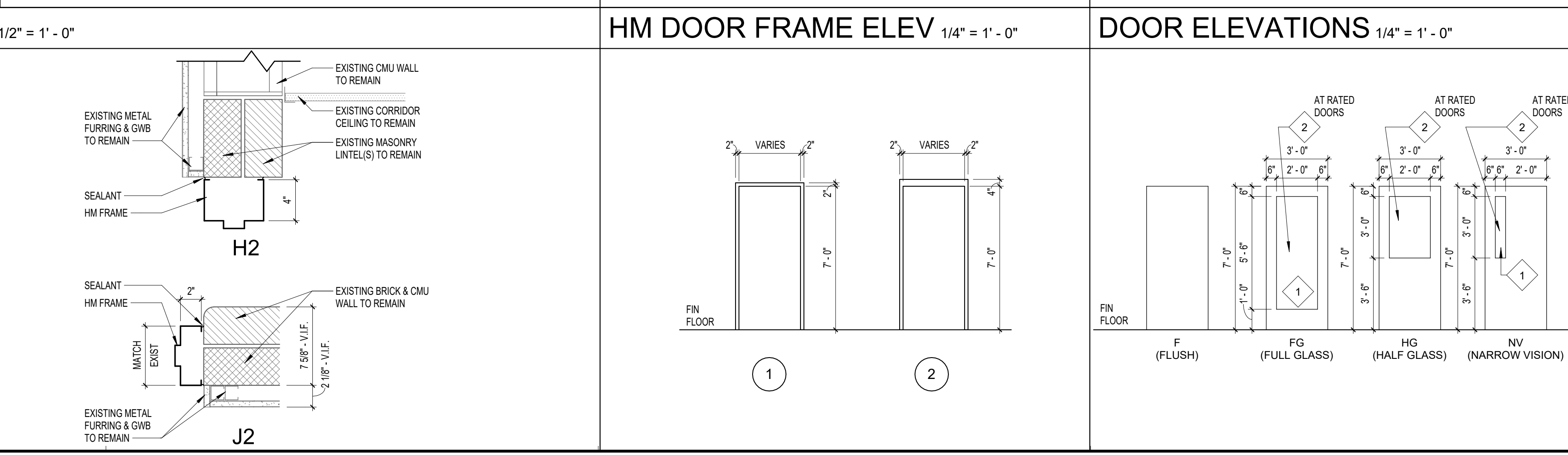
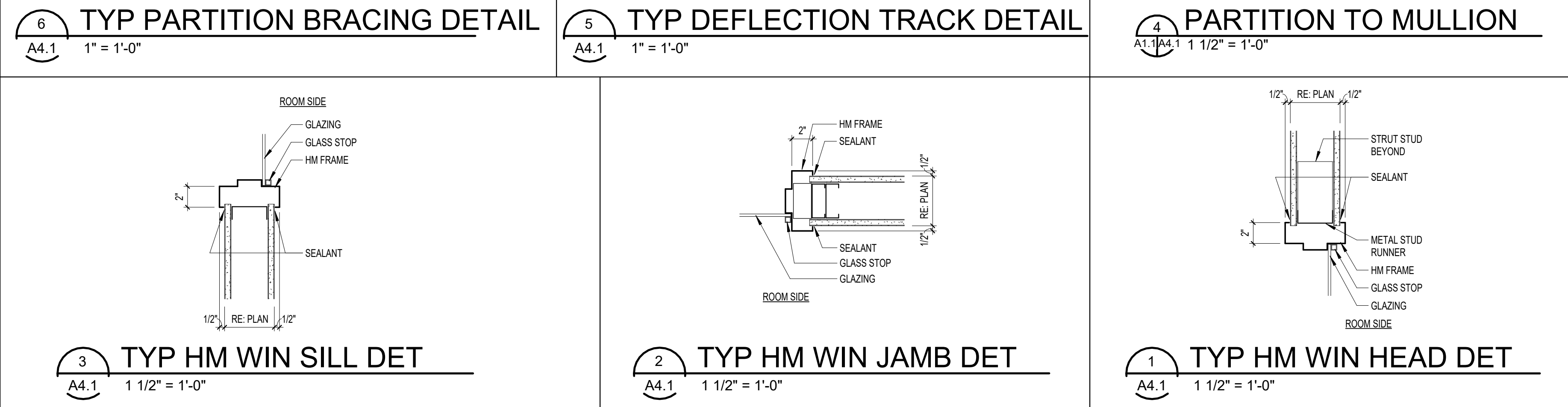
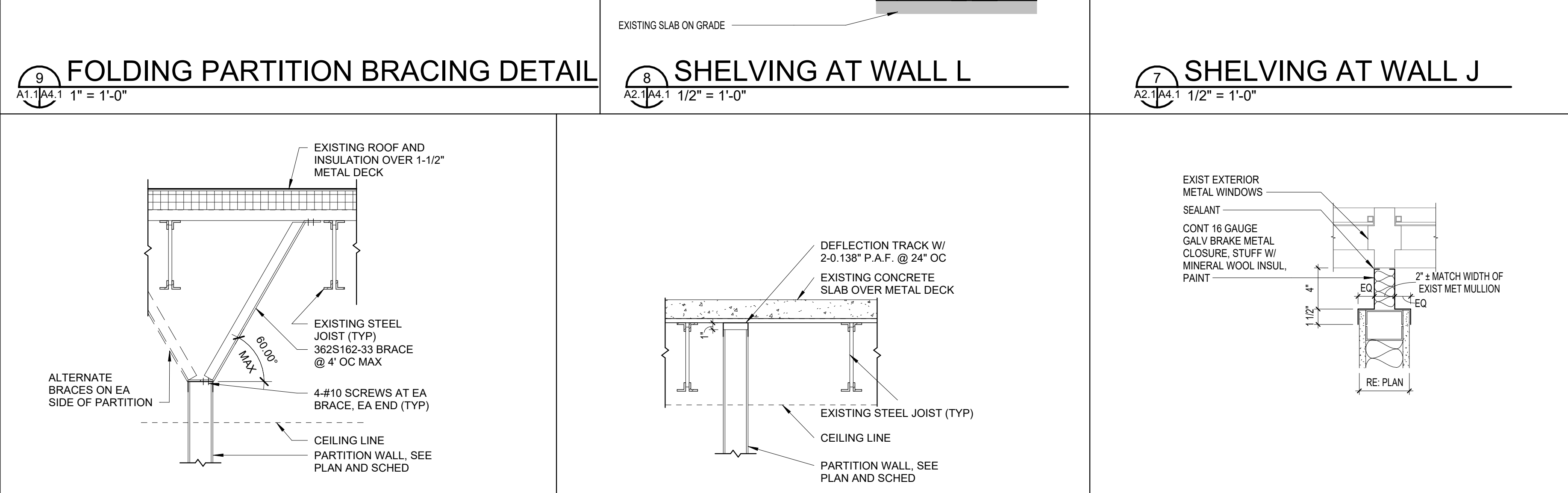
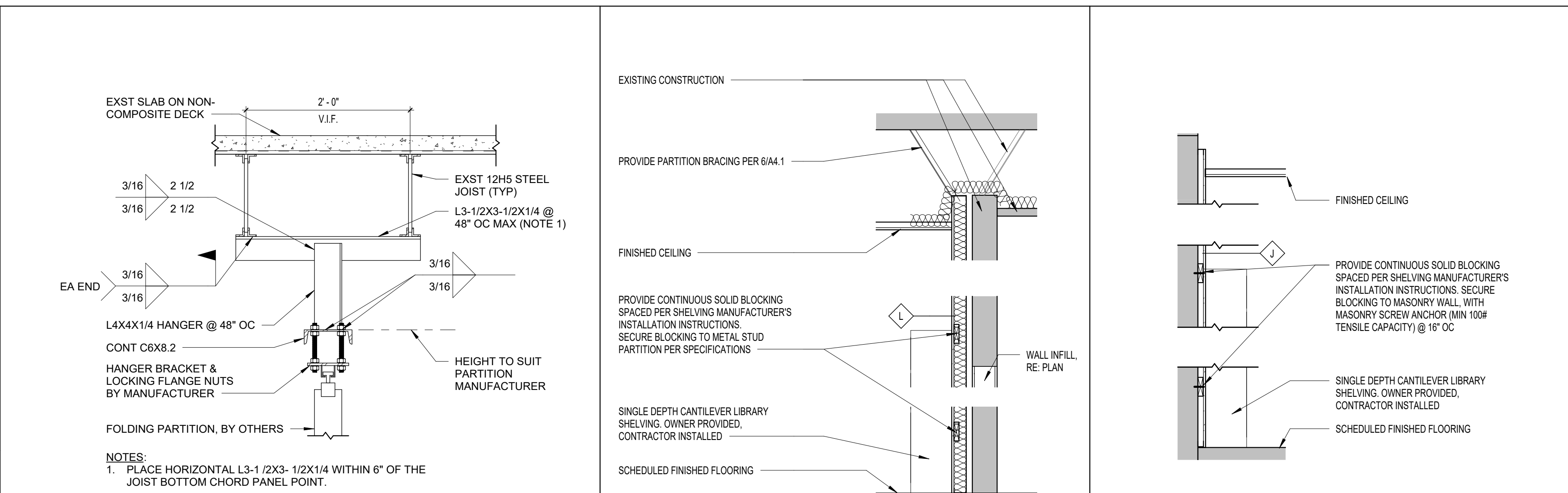
DOOR TYPE ABBREVIATIONS	
AL - ALUMINUM	NV - NARROW VISION
FBG - FIBERGLASS	OCD - OVERHEAD COILING DOOR
FD - FOLDING DOOR	OCSD - OVERHEAD SECTIONAL DOOR
FL - FULL GLASS	PL - PLASTIC LAMINATE
LG - FULL LOUVER	SR - SOUND RATED
HC - HOLLOW CORE	SS - STAINLESS STEEL
HG - HALF GLASS	STL - STEEL
HGP - HALF GLASS PANEL	TR - THERMAL RATED
HM - HOLLOW METAL	WD - WOOD
G - GLASS	WDR - WOOD STILE & RAIL
MDF - MEDIUM DENSITY FIBERBOARD	V - VISION

DOOR NOTES

GLASS TYPES

NOTES:

1. RATED GLAZING IN 1-HOUR FIRE PARTITIONS-CORRIDOR WALLS PER TABLE 716.1(2)
 - A. MIN ASSEMBLY RATING: 1/3 HOUR ASSEMBLY
 - B. DOOR VIEW PANEL SIZE: MAXIMUM SIZE TESTED
 - C. FIRE-RATED GLAZING MARKING DOOR VIEW PANEL: D-20
 - a. PER TABLE 716.1(1)
 - "D" REFERS TO NFPA 252 -OR- UL 10B -OR- UL 10C



PROJECT TITLE

**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

S F C S Architecture
Engineering
Planning
Interiors

SFCS Inc. ■ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ■ Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER: SFCS

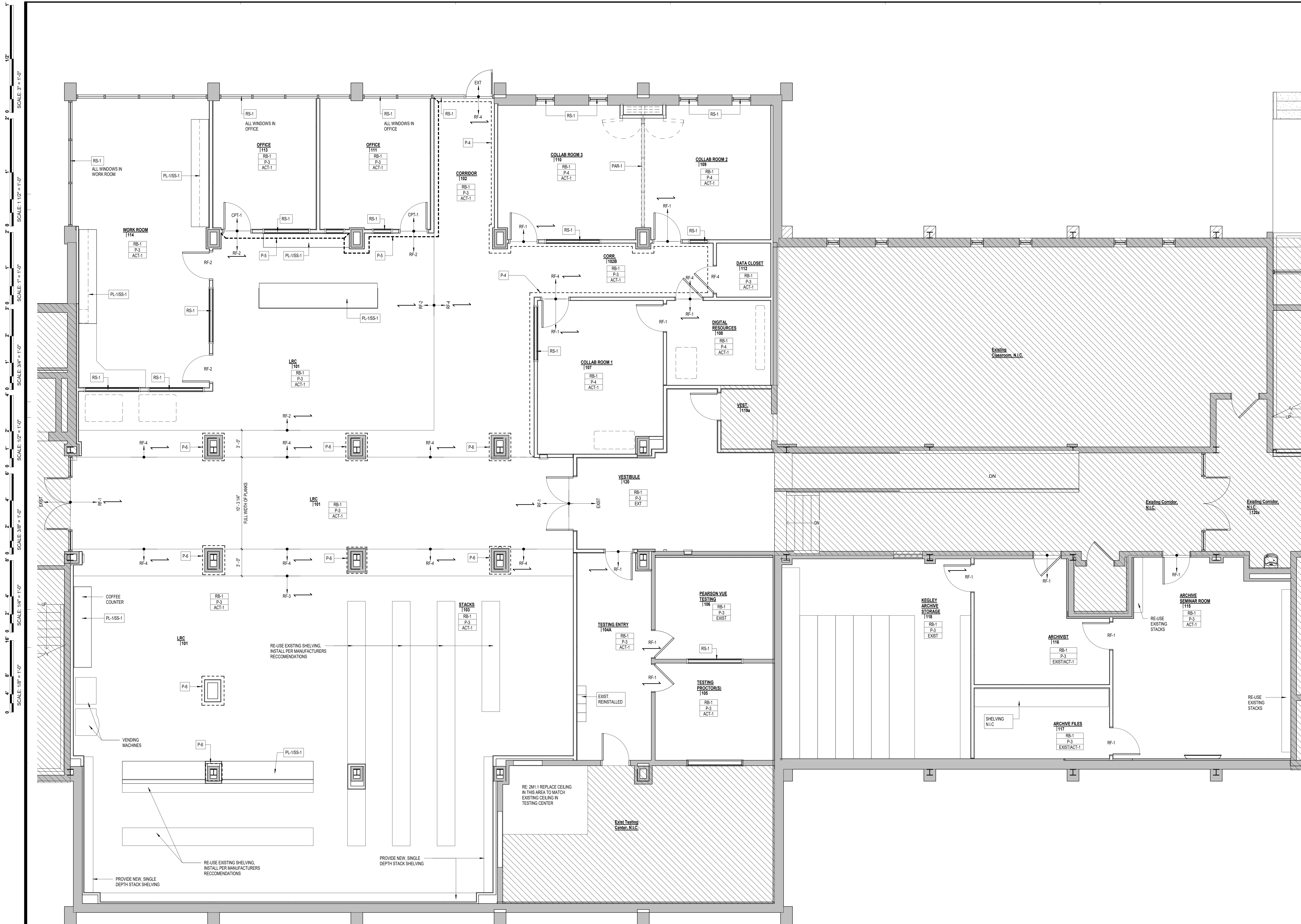
PROJECT DESIGNER	:	BLB/CYW
PROJECT ARCHITECT	:	BLB
PROJECT ENGINEER	:	CWIA/JM
DRAWN BY	:	BLB/DLG
CHECKED BY	:	DOP
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

DOOR SCHEDULE AND
DETAILS

COMM. NO. 20301.13	DATE JUL 16 2025
-----------------------	---------------------

A4.1



1 LRC FLOOR FINISH PLAN

1/4" = 1'-0"

KEYPLAN

PLAN NORTH TRUE NORTH

PROJECT TITLE

**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

SFCS

SFCS Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 • Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER : BLB/CYW
PROJECT ARCHITECT : BLB
PROJECT ENGINEER : AJM/COW
DRAWN BY : DRW
CHECKED BY : DDP
APPROVED BY :
NO. REVISION DESCRIPTION DATE

DRAWING TITLE

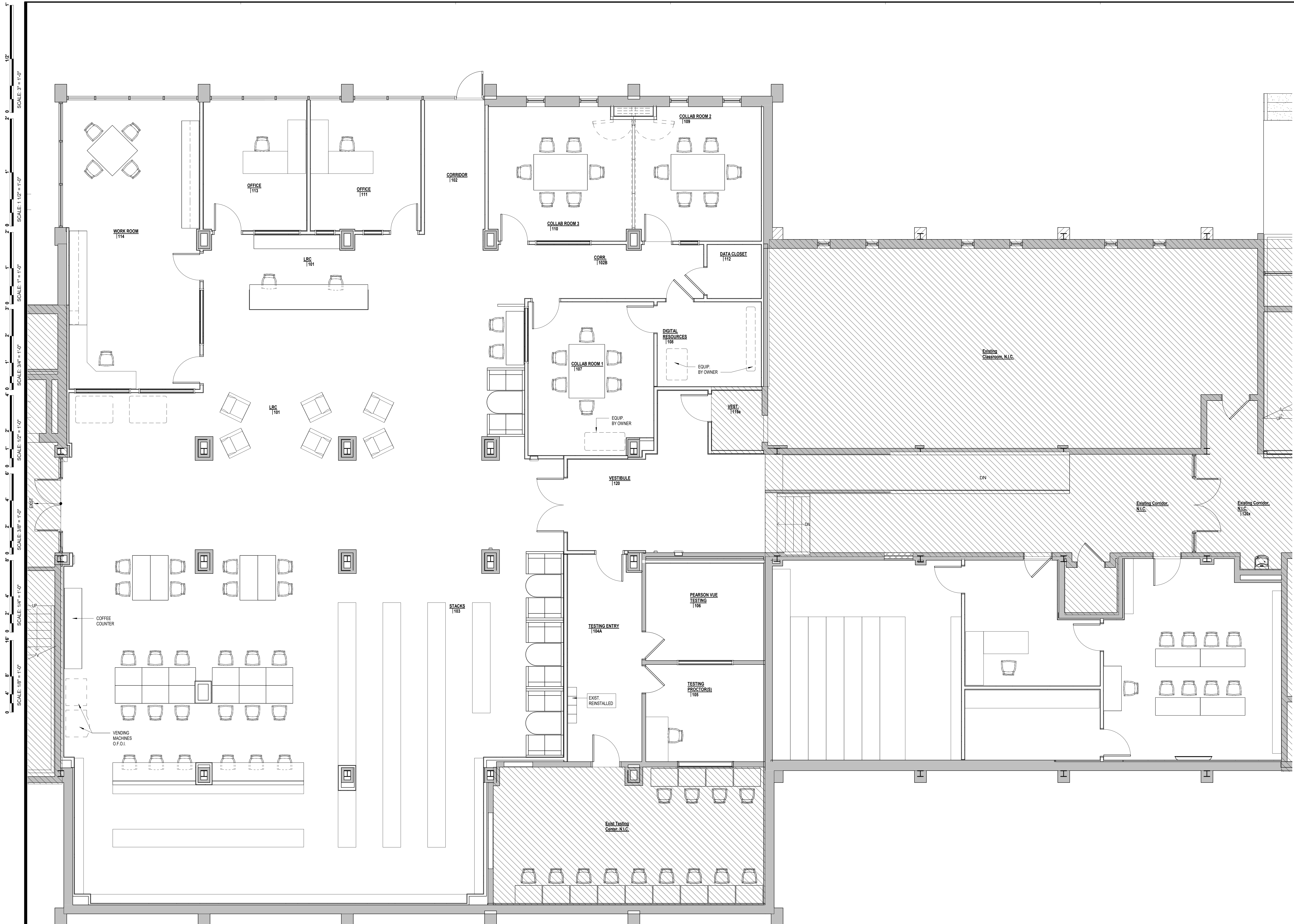
FINISH FLOOR PLAN

COMM. NO.
20301.13

DATE
JULY 16, 2025

DRAWING

11.1



1 LRC FLOOR FURNITURE PLAN
IF1.1 1/4" = 1'-0"

KEYPLAN

WORK AREA

N.I.C.

PLAN NORTH

TRUE NORTH

GENERAL NOTES

FURNITURE IS N.I.C.

PROJECT TITLE

**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

SFCS

SFCS Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 • Fax 540.343.6925
www.sfcs.com

Architecture
Engineering
Planning
Interiors

PROJECT DESIGNER	: BLB/CYW	
PROJECT ARCHITECT	: BLB	
PROJECT ENGINEER	: AJM/CW	
DRAWN BY	: DRW	
CHECKED BY	: DDP	
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

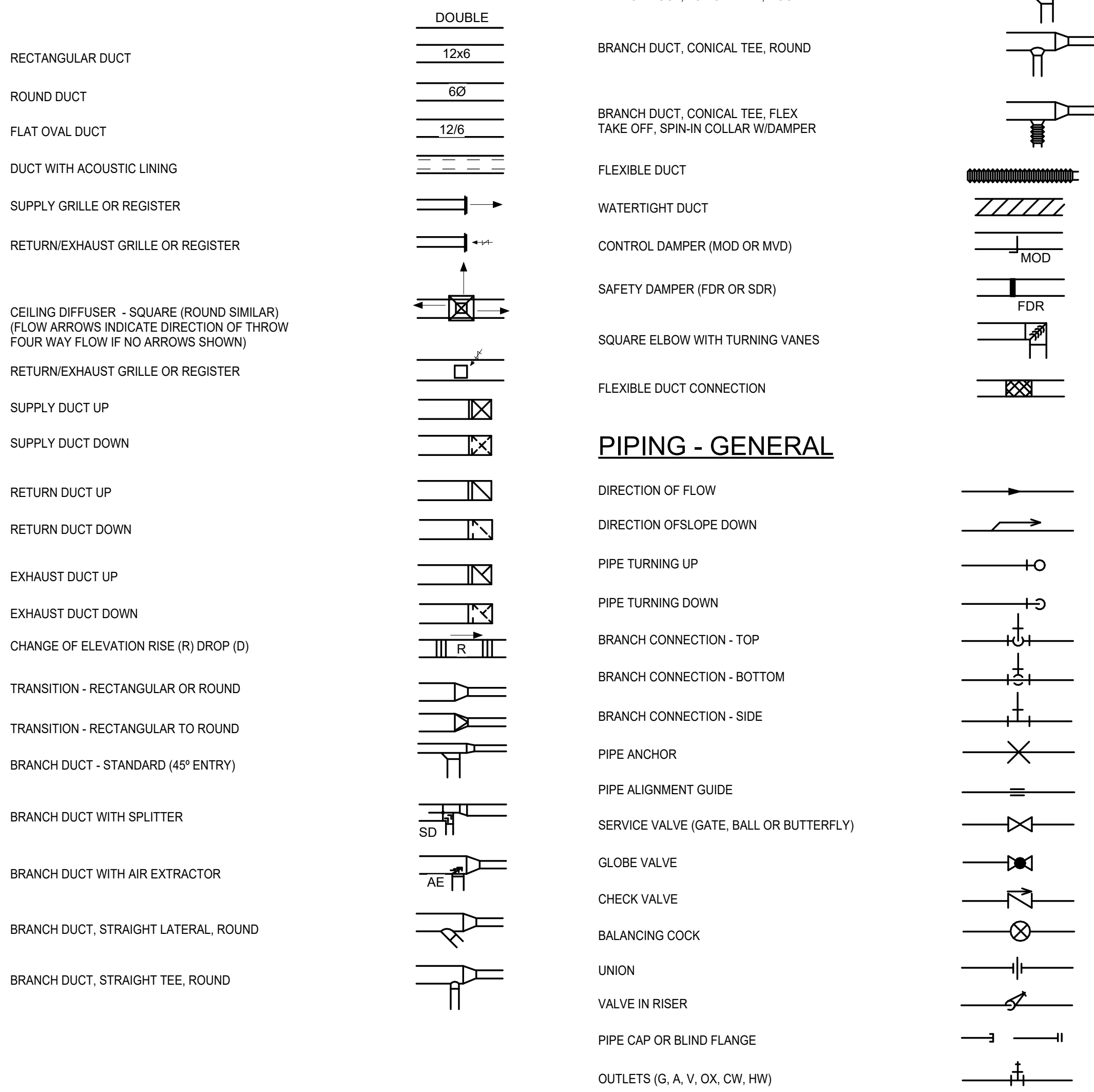
**FURNITURE FLOOR
PLAN**

COMM. NO. 20301.13	DATE JULY 16, 2025
-----------------------	-----------------------

DRAWING

IF1.1

DUCTWORK, AIR DISTRIBUTION



PIPING - GENERAL

PIPING - HVAC

HVAC ABBREVIATIONS AND LEGEND

GRILLES, REGISTERS AND DIFFUSERS												
MARK	DESCRIPTION	FACE SIZE	NECK SIZE	AIR PATTERN	FRAME	C.F.M.	S.P. (WAT ER)	THROW (FEET)	MATERIAL	MAX NOISE LEVEL (NC)	BASIS OF DESIGN MANUF. AND MODEL	REMARK S
CD-1	SQUARE PLAQUE	24" X 24"	6" Ø	4-WAY	LAY-IN-SURFACE	0-120	0.07	3-4-7	ALUMINUM	≤20	PRICE: ASPD	1,2,3,4
CD-3	SQUARE PLAQUE	24" X 24"	10" Ø	4-WAY	LAY-IN-SURFACE	281-430	0.10	4-6-11	ALUMINUM	25	PRICE: ASPD	1,2,3,4
CG-1	SINGLE DEFLECTION BLADES W/ 3/4" SPACING 45°	NECK + 1-3/4"	12" X 12"	-	LAY-IN-SURFACE	0-200	0.1	-	ALUMINUM	≤20	PRICE: 630DAL	1,2,4,7
CG-2	SINGLE DEFLECTION BLADES W/ 3/4" SPACING 45°	NECK + 1-3/4"	24" X 24"	-	LAY-IN-SURFACE	201-1200	0.1	-	ALUMINUM	≤20	PRICE: 630DAL	1,2,4,7

REMARKS:																												
1. THE DESIGN SHOWN ON SHEET M-1 IS BASED ON PRICE INDUSTRIES EQUIPMENT MODELS LISTED, AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS AND SUPPORT FOR EQUIPMENT OR SYSTEM SPECIFIED WITH RELATION TO OTHER BUILDING SYSTEMS. SEE SPECIFICATION SECTIONS 233713.13 AND 233713.23 FOR TECHNICAL REQUIREMENTS PERTAINING TO DIFFUSERS, REGISTERS, AND GRILLE EQUIPMENT.																												
2. ALL GRILLES AND DIFFUSERS SHALL NOT EXCEED NC-36 REGARDLESS OF SIZE LISTED UNLESS SPECIFIED OTHERWISE.																												
3. COORDINATE EXACT GRILLE/ DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.																												
4. DUCT MOUNTED BALANCING DAMPERS SHALL BE FURNISHED AND INSTALLED WHERE RUNOUT IS ABOVE AN ACCESSIBLE CEILING. IN LOCATIONS ABOVE HARD CEILINGS, DIFFUSERS SHALL BE FURNISHED WITH OPPOSED BLADE DAMPER OPERABLE THRU REGISTER FACE.																												
5. FIRST THROW VALUE IS 150 FPM TERMINAL VELOCITY. SECOND THROW VALUE IS 100 FPM TERMINAL VELOCITY. THIRD VALUE IS 50 FPM TERMINAL VELOCITY.																												
6. REGISTERS SHALL BE FURNISHED WITH OPPOSED BLADE DAMPER OPERABLE THRU REGISTER FACE.																												
7. PROVIDE 1" MERV 8 FILTER.																												
8. LOCATE CEILING AIR DIFFUSERS, REGISTERS AND GRILLES IN THE CENTER OF 2'x2' CUT CEILING TILE AND AT THE QUARTER POINT OF 2'x4' ACOUSTICAL TILE CUT CEILING TILE UNLESS SPECIFICALLY INDICTED OTHERWISE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.																												
HYDRONIC 4-PIPE FAN COIL UNITS (FCU)																												
MARK	AREA(S) SERVED	SUPPLY FAN					COOLING CAPACITY										HEATING CAPACITY										FILTER	
		NOMINAL (CFM)	S.A. (CFM)	MIN. (CFM)	O.A. (CFM)	EXT. S.P. (IN. H2O)	MAX HP	WATTS	TOTAL SENSIBLE	E.A.T. (°F DB / WB)	L.A.T. (°F DB / WB)	E.W.T. (°F)	L.W.T. (°F)	GPM	MAX W.P.D. (FT. W.G.)	RUNOUT S. (IN.)	CAPACIT Y (MBH)	E.A.T. (°F DB / WB)	MAX L.A.T. (°F DB / WB)	E.W.T. (°F)	L.W.T. (°F)	GPM	MAX W.P.D. (FT. W.G.)	RUNOUT S. (IN.)	TYPE			
FCU-1	RMS 111, 113, 114, & 101	1,200	1,025	510	155	0.5	(2) @ 1/4	158	41.2	26.7	80 / 67	53.5 / 52.9	45	55	8.4	5.00	1"	53.7	70	95	180	160	5.4	10	3/4"	1-INCH THROW-AWAY		
FCU-2	RM'S 102 & 101 (LRC N)	800	555	275	70	0.5	(1) @ 1/4	75	25.5	16.0	80 / 67	50.8 / 50.5	45	55	5.1	6.50	1"	30.3	70	95	180	160	3.1	10	3/4"	1-INCH THROW-AWAY		
FCU-3	RM'S 109, & 110	1,000	825	410	120	0.5	(2) @ 1/4	132	36.1	22.8	80 / 67	51.8 / 51.4	45	55	7.3	8.50	1"	43.6	70	95	180	160	4.4	10	3/4"	1-INCH THROW-AWAY		
FCU-4	RM 101 (LRC NW)	1,200	1,025	510	95	0.5	(2) @ 1/4	158	41.2	26.7	80 / 67	53.5 / 52.9	45	55	8.4	5.00	1"	53.7	70	95	180	160	5.4	10	3/4"	1-INCH THROW-AWAY		
FCU-5	RM'S 102B, 107, & 108	400	305	150	85	0.5	(1) @ 1/4	42	14.1	8.8	80 / 67	50.5 / 50.3	45	55	2.8	6.50	1"	16.7	70	95	180	160	1.7	10	3/4"	1-INCH THROW-AWAY		
FCU-6	RM 101 (LRC SW)	1,200	1,025	510	90	0.5	(2) @ 1/4	158	41.2	26.7	80 / 67	53.5 / 52.9	45	55	8.4	5.00	1"	53.7	70	95	180	160	5.4	10	3/4"	1-INCH THROW-AWAY		
FCU-7	RM 101 (LRC SC)	1,200	1,025	510	115	0.5	(2) @ 1/4	158	41.2	26.7	80 / 67	53.5 / 52.9	45	55	8.4	5.00	1"	53.7	70	95	180	160	5.4	10	3/4"	1-INCH THROW-AWAY		
FCU-8	RMS 104B, 105, & 106	600	480	240	70	0.5	(1) @ 1/4	81	21.9	13.8	80 / 67	50.8 / 50.5	45	55	4.4	8.10	1"	25.0	70	95	180	160	2.6	10	3/4"	1-INCH THROW-AWAY		
FCU-9	RM 118	400	305	150	55	0.5	(1) @ 1/4	42	14.1	8.8	80 / 67	50.5 / 50.3	45	55	2.8	6.50	1"	16.7	70	95	180	160	1.7	10	3/4"	1-INCH THROW-AWAY		
FCU-10	RM'S 116, & 117	400	305	150	55	0.5	(1) @ 1/4	42	14.1	8.8	80 / 67	50.5 / 50.3	45	55	2.8	6.50	1"	16.7	70	95	180	160	1.7	10	3/4"	1-INCH THROW-AWAY		
FCU-11	RM 115	600	480	240	85	0.5	(1) @ 1/4	81	21.9	13.8	80 / 67	50.8 / 50.5	45	55	4.4	8.10	1"	25.0	70	95	180	160	2.6	10	3/4"	1-INCH THROW-AWAY		
FCU-12	RM 101 (LRC S)	1,000	825	410	90	0.5	(2) @ 1/4	132	36.1	22.8	80 / 67	51.8 / 51.4	45	55	7.3	8.50	1"	43.6	70	95	180	160	4.4	10	3/4"	1-INCH THROW-AWAY		
(E) FCU-13 RM 104																												
REMARKS:																												
1. THE DESIGN SHOWN ON SHEET M-1 IS BASED ON ENVIRO-TEC MODELS HP-2D-XX EQUIPMENT, AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS AND SUPPORT FOR EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO OTHER BUILDING SYSTEMS. SEE SPECIFICATION SECTION 238219 FOR TECHNICAL REQUIREMENTS PERTAINING TO EQUIPMENT.																												
2. PROVIDE EACH FAN-COIL UNIT WITH A SECONDARY DRAIN PAN UNDERNEATH AND PIPED TO THE UNIT'S MAIN CONDENSATE DRAIN. PROVIDE A FLOAT SWITCH IN THE PRIMARY DRAIN PAN WIRED INTO THE 24V THERMOSTAT CIRCUIT TO SHUT DOWN THE FAN-COIL UNIT AND ACTUATE THE EXISTING DRAIN IN THE EVENT THAT THE CONDENSATE RISES ABOVE THE PRIMARY DRAIN.																												
3. FLOAT SWITCH TO BE UNLISTED AND EQUIVALENT TO LITTLE GANT ACS-3.																												

SPLIT-SYSTEM AIR CONDITIONING UNITS												
MARK	INDOOR UNIT				ELECTRICAL DATA				OUTDOOR UNIT			
	TOTAL CFM	OA CFM	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	FAN FLA	MCA	V	P	MARK	COOLING CAPACITY (BTUH)	EFF. SEER	HEATING CAPACITY (BTUH @47 F)
MSC-1/ACHP-1	300	0	12,000	13,000	0.33	1	208	1	ODU-1	12,000	15.3	13,000

SPLIT-SYSTEM AIR CONDITIONING UNITS												
MARK	INDOOR UNIT				ELECTRICAL DATA				OUTDOOR UNIT			
	TOTAL CFM	OA CFM	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	FAN FLA	MCA	MOCP	V	P	REF. TYPE	TOTAL SYSTEM CHARGE	BASIS OF DESIGN
MSC-1/ACHP-1	300	0	12,000	13,000	0.33	1	208	1	D-454B	4 LBS/3.7 OZ	4	MITSUBISHI

REMARKS:

1. THE DESIGN SHOWN ON SHEET M1.1 IS BASED ON MITSUBISHI EQUIPMENT MODEL(S) LISTED, AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS AND SUPPORT FOR EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO OTHER BUILDING SYSTEMS. SEE SPECIFICATION SECTION 238126 FOR TECHNICAL REQUIREMENTS PERTAINING TO EQUIPMENT.

2. ALL UNITS SHALL BE UL LISTED AND HAVE A MINIMUM SEER RATING OF 14.3.

3. COOLING CAPACITIES ARE BASED ON 95° AMBIENT, 80° ENTERING AIR DRY BULB, 67° ENTERING AIR WET BULB. AIR FLOWS INDICATED ARE AT "HIGH" SPEED.

4. MOUNT UNITS ON ROOF ON EQUIPMENT SUPPORT RAILS AS MFG. BY ROOF PRODUCTS AND SERVICE CORP. (OR EQUAL).

5. PROVIDE MANUFACTURER'S SUGGESTED CLEARANCE AROUND UNIT.

6. PROVIDE UNITS WITH MANUFACTURER'S WIND Baffles OR LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0°F. INVERTER COMPRESSOR, HARD WIRED WALL-MOUNTED CONTROLLER (EQUAL TO PAR-21MAU), INTEGRAL NON-LOCKING DISCONNECT FOR INDOOR UNIT, AND PRIMARY COOLING COIL DRAIN PAN FLOAT SWITCH.

7. PROVIDE OUTDOOR UNITS WITH 6 YEAR EXTENDED COMPRESSOR WARRANTY.

8. SEE MANUFACTURER'S RECOMMENDATIONS FOR REQUIRED ADDITIONAL REFRIGERANT CHARGE AND RECOMMENDED LINE-SET LENGTHS. SYSTEM SHALL SUPPORT LONG REFRIGERANT LINE LENGTH UP TO 100 FEET WITH NO EFFECT ON SCHEDULED PERFORMANCE.

9. POWER SUPPLY TO CONDENSING UNIT IS A SINGLE POINT ELECTRICAL CONNECTION FOR THE SYSTEM (AC UNIT AND CONDENSING UNIT). THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE CONDENSING UNIT AND FROM THE CONDENSING UNIT TO THE AC UNIT. INCLUDE CODE REQUIRED DISCONNECT SWITCHES.

10. REFRIGERANT PIPING AND WIRING FOR WALL-MOUNTED INDOOR UNITS SHALL BE ROUTED IN WALL WHERE POSSIBLE. ANY EXPOSED (OUTDOOR) PIPING SHALL BE PROTECTED WITH AN ALUMINUM JACKET.

11. PROVIDE AN INTEGRAL CONDENSATE PUMP AND ACCESSORIES. ROUTE CONDENSATE PIPING TO AN EXTERIOR WALL AND TERMINATE DRAIN LINE AT GRADE ON TO A SPLASH BLOCK.

EQUIPMENT SCHEDULES

PIPING - SPECIAL

COMPRESSED AIR	— A —
GAS	— G —
FUEL OIL SUPPLY	— FOS —
FUEL OIL RETURN	— FOR —
GLYCOL SUPPLY	— GS —
GLYCOL RETURN	— GR —

MISCELLANEOUS

LIMIT OF DEMOLITION	— S —
CONNECT NEW TO EXISTING	— T —
ELECTRIC THERMOSTAT (OR SENSOR)	— T —
PNEUMATIC THERMOSTAT	— T —
DIAMETER	— Ø —
HUMIDISTAT	— H —
FAN SPEED SWITCH	— S —
DUCT - MOUNTED SMOKE DETECTOR	— SMD —
PIPE AND DUCT RISER REFERENCE	— H —
AQUASTAT	— A —
GAS COCK	— G —
BACKFLOW PREVENTER	— BFP —
NEW WORK	— —
EXISTING TO REMAIN	— —
EXISTING TO BE REMOVED	— - - - -

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	MAV	MANUAL AIR VENT
AD	ACCESS DOOR	MBH	BTU PER HOUR (THOUSANDS)
AE	AIR EXTRACTOR	MOD	MOTOR OPERATED DAMPER
AFVC	AUTOMATIC FLOW CONTROL VALVE	MPR	MEDIUM PRESSURE STEAM RETURN
APD	AIR PRESSURE DROP, IN. WG.	MPS	MEDIUM PRESSURE STEAM SUPPLY
AQ	AQUASTAT	MVD	MANUAL VOLUME DAMPER
ATD	AIR TRANSFER DUCT	NC	NOISE CRITERIA
BC	BOTTOM GRILLE	OED	OPEN END DUCT
BHP	BRAKE HORSEPOWER	OFD	OVERFLOW DRAIN
BOD	BOTTOM OF DUCT	OA	OUTSIDE AIR
BR	BOTTOM REGISTER	OB	OPPOSED BLADE DAMPER
BTU	BRITISH THERMAL UNIT	OT	OVERRIDE TIMER
BTUH	BRITISH THERMAL UNIT/HOUR	OTCP	OPEN TO CEILING PLENUM
CAD	CEILING ACCESS DOOR	PV	POST INDICATOR VALVE
CD	CEILING DIFFUSER, CONDENSATE DRAIN	PVR	PRESSURE REDUCING VALVE
CFM	CUBIC FEET PER MINUTE	PSI	POUNDS PER SQUARE INCH
CG	CEILING GRILLE	RA	RETURN AIR
CO	CLEANOUT	RC	RAIN CONDUCTOR
CR	CEILING REGISTER	RD	ROOF DRAIN
CRD	CEILING RADIATION DAMPER	RH	RELATIVE HUMIDITY
CW	COLD WATER	RM	REVOLUTIONS PER MINUTE
CWR	CHILLED WATER RETURN	SA	SUPPLY AIR
CWS	CHILLED WATER SUPPLY	SD	SHOWER DRAIN, SPLITTER DAMPER, STORM DRAIN
DAD	DUCT ACCESS DOOR	SDR	SMOKE DAMPER
DB	DRY BULB °F, DECIBEL	SMD	SMOKE DETECTOR
DS	DOOR GRILLE	SP	STATIC PRESSURE
DS	DOUBLE WALLED DUCT	SS	SANITARY SEWER
EA	EXHAUST AIR	SS	STAINLESS STEEL
EAT	ENTERING AIR TEMPERATURE	SV	SERVICE VALVE
ESA	EQUIPMENT SERVICE AREA	SW	SWITCH
EWT	ENTERING WATER TEMPERATURE	TC	TEMPERATURE
FD	FLOOR DRAIN	TD	TEMPERATURE DIFFERENTIAL
FDR	FIRE DAMPER	TG	TOP GRILLE, TRANSFER GRILLE
FG	FLOOR GRILLE	TR	TOP REGISTER, TONS OF REFRIGERATION
FR	FROM	TSTAT	THERMOSTAT
FSDR	FIRE/SMOKE DAMPER	UC	DOOR UNDERCUT
GAL	GALLON	V	VOLT, VENT
GPD	GALLONS PER DAY	VAC	VACUUM
GPH	GALLONS PER HOUR	VAV	VARIABLE AIR VOLUME
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
HB	HOSE BIBB	W	WASTE, WATTS
HP	HORSEPOWER	WB	WET BULB °F
HPR	HIGH PRESSURE STEAM RETURN	WG	WATER GAUGE (FEET OR INCHES)
HPS	HIGH PRESSURE STEAM SUPPLY	WH	WALL HYDRANT
HW	HOT WATER	WHA	WATER HAMMER ARRESTOR
HWR	HEATING/HOT WATER RETURN	WPD	WATER PRESSURE DROP, FT. WG
HWS	HEATING WATER SUPPLY	WS	WATER STOP
HZ	FREQUENCY (CYCLES/SECOND)	WTD	WATER TEMPERATURE DROP °F
KW	KILOWATT	WTR	WATER TEMPERATURE RISE, °F
KWH	KILOWATT HOUR	WWM	WOVEN WIRE MESH
LAT	LEAVING AIR TEMPERATURE	Z	ZONE
LBHR	POUNDS PER HOUR		
LD	LINEAR DIFFUSER		
LG	LINEAR GRILLE		
LR	LINEAR RETURN		
LWT	LEAVING WATER TEMPERATURE		

THESE SYMBOLS AND ABBREVIATIONS ARE MECHANICAL DEPARTMENT STANDARDS AND MAY NOT NECESSARILY BE APPLICABLE TO OR APPEAR ON THESE DRAWINGS. HOWEVER, WHEREVER THESE SYMBOLS DO OCCUR ON THE DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS.

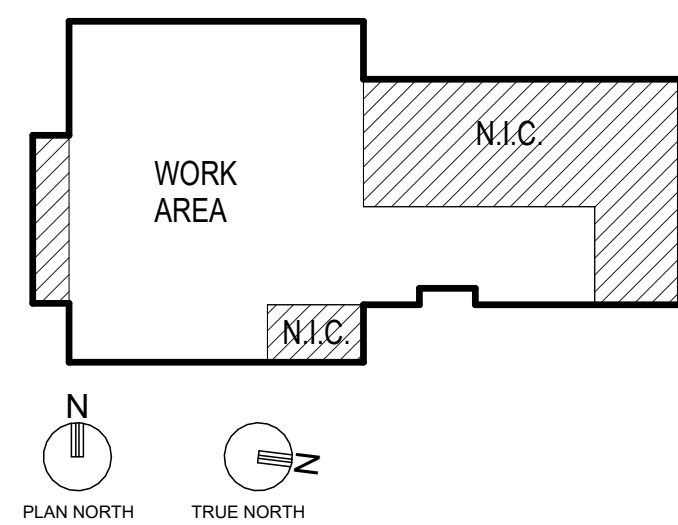
CONTRACTOR NOTE:

THE LISTED MANUFACTURERS AND EQUIPMENT HAVE BEEN USED AS THE BASIS OF DESIGN OF THIS PROJECT AND ARE LISTED TO ESTABLISH A STANDARD OF QUALITY AND TO DEFINE CONNECTION AND CLEARANCE REQUIREMENTS. ALL OTHER MANUFACTURERS AND EQUIPMENT OF EQUAL OR BETTER QUALITY MAY BE ACCEPTED UPON REVIEW BY THE ENGINEER. HOWEVER, IF THESE SUBSTITUTIONS ARE MADE, THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL REQUIREMENTS OF DIVISION 1, AND SHALL SUBMIT WITH THE SHOP DRAWINGS A DETAILED DRAWING SHOWING ALL CHANGES IN THE EQUIPMENT SIZE AND LOCATION, DUCTWORK, PIPING, ELECTRICAL WIRING CONNECTIONS, CLEARANCES, ETC. IF ANY REQUIRED CHANGES INVOLVE OTHER TRADES, THE MECHANICAL SUBCONTRACTOR SHALL INCLUDE WITH THE SHOP DRAWINGS A LETTER INDICATING THAT THE OTHER TRADES HAVE BEEN ADVISED OF THE PROPOSED CHANGES AND SHALL ALSO INCLUDE A STATEMENT AS TO HOW, BY WHOM, AND THE ARRANGEMENT WHEREBY THESE CHANGES WILL BE ACCOMPLISHED. ALL ADDITIONAL COSTS AND PERFORMANCE ISSUES RESULTING FROM THE SUBSTITUTION WILL BE THE RESPONSIBILITY OF THE MECHANICAL SUBCONTRACTOR. THE SUBSTITUTED EQUIPMENT WILL NOT BE PERMITTED TO ADD ELECTRICAL LOAD TO THE PROJECT.

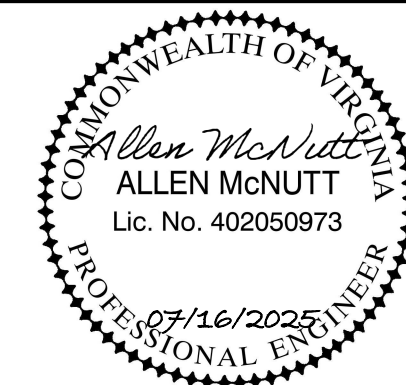
HVAC GENERAL NOTES

- FOR GENERAL AND ARCHITECTURAL ABBREVIATIONS AND SYMBOLS, SEE SHEET A0.0
- DUCT WORK INSTALLATION, CONNECTIONS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE SMACNA STANDARDS
- EQUIPMENT INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. COPY OF INSTRUCTIONS SHALL BE ON JOB SITE AT TIME OF BUILDING INSPECTIONS.
- DUCT DIMENSIONS INDICATED ARE ACTUAL SHEET METAL SIZES. WHERE ACOUSTIC LINING IS INDICATED (IF SHOWN), THE DUCT SIZES WERE DEDUCTED TO COMPENSATE FOR THE LINING.
- DUCTWORK AND PIPING LAYOUTS ARE SCHEMATIC. ALL DROPS, RISES, OR OFFSETS REQUIRED BUT NOT SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- DUCT CONNECTIONS TO SIDE WALL OR DUCT MOUNTED REGISTERS AND GRILLES SHALL BE MADE WITH RIGID DUCT. DUCT CONNECTIONS TO CEILING MOUNTED REGISTERS, AND GRILLES MAY BE WITH RIGID OR FLEXIBLE DUCT (CONTRACTOR OPTION). PROVIDE SMOOTH BENDS IN FLEXIBLE DUCT SECTIONS.
- ALL TEMPERATURE AND HUMIDITY SENSORS (NON-SPACE ADJUSTABLE) IN PUBLIC AREAS SHALL BE MOUNTED AT 5'-0" AFF. THERMOSTATS FOR NON-PUBLIC, NON-RESIDENTIAL AREAS SHALL BE MOUNTED AT 5'-0" AFF WITH AN 18" LONG LOOP OF SURPLUS CONTROL WIRE IN WALL CAVITY TO PERMIT THE OWNER TO LOWER THE CONTROL DEVICE IN THE FUTURE IF REQUIRED FOR HANDICAP ACCESS. MOUNT OPERABLE PARTS OF THERMOSTATS BELOW 48" AFF IN ALL AREAS DESIGNATED AS NON-HANDICAP ACCESSIBLE.
- ALL DUCTWORK SHALL BE SEALED ACCORDING TO SMACNA CLASS "X". DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING PRESSURE CLASSIFICATIONS:
DEDICATED OUTSIDE AIR SYSTEM, MAKE-UP AND ROOFTOP AC UNITS: 12" ALL OTHER SUPPLY, RETURN AND EXHAUST: 14"
- DUCT CONNECTIONS TO ALL AIR HANDLING UNITS, INCLUDING FAN COIL UNITS, LINE FANS, ETC. SHALL BE MADE USING FLEXIBLE DUCT CONNECTION. ALSO, PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCTWORK CROSSES BUILDING EXPANSION JOINTS.
- LOCATE CEILING AIR DIFFUSERS, REGISTERS AND GRILLES IN THE CENTER OF 2'x2' AND AT THE QUARTER POINT OF 2'x4' ACOUSTICAL TILE CEILING MODULES UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
- PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS. THE ESTIMATED WEIGHT ASSIGNED TO PIPES AND EQUIPMENTS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW, COORDINATION AND APPROVAL PRIOR TO INSTALLATION. THIS REQUIREMENT APPLIES TO ALL MECHANICAL WORK, INCLUDING PLUMBING AND FIRE PROTECTION.
- HEATING / COOLING DESIGN CONDITIONS: WYTHEVILLE, VA
- WINTER: 35°F DB (OUTDOORS); 70°F DB & 35% RH (INDOORS); 80°F UNOCCUPIED
- SUMMER: 90°F DB & 75% RH (OUTDOORS); 75°F DB & 65% RH (INDOORS); 80°F UNOCCUPIED
- WHERE MORE THAN ONE TOP REGISTER IS INSTALLED IN A ROOM, THE CENTERLINE ELEVATION OF EACH REGISTER SHALL BE THE SAME DISTANCE FROM AND LEVEL TO THE PLANE OF THE CEILING.
- MANY OF THE CEILING SPACES ARE EXTREMELY CONGESTED AND WILL REQUIRE SIGNIFICANT ON-SITE FIELD COORDINATION BETWEEN THE CONSTRUCTION TRADES. CONTRACTOR GENERATED COORDINATION DRAWINGS ARE REQUIRED FOR ALL SUCH AREAS AND SHOULD INDICATE STRUCTURE, CEILING FEATURES, LIGHT FIXTURES, PLUMBING AND FIRE SERVICE PIPING AND ALL MECHANICAL EQUIPMENT, PIPING AND DUCTWORK.
- THE ROUTING OF LARGER SIZE SUPPLY AIR DUCTS SHALL TAKE PRECEDENCE OVER SMALLER DUCTS, AND OVER RETURN AND EXHAUST AIR DUCTS. PROVIDE DUCT OFFSETS, RISES AND DROPS AS REQUIRED TO INSTALL DUCTWORK AS CLOSELY TO THE LAYOUT SHOWN ON THESE DOCUMENTS AS POSSIBLE.

KEYPLAN



GENERAL NOTES



PROJECT TITLE
**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

BEFORE WORK IS BEGUN, CONTRACTORS SHALL MAKE A THOROUGH SURVEY OF THE FACILITY AND DOCUMENT EXISTING CONDITIONS (USING TAPE MEASUREMENTS) FOR THE OWNER IN WRITING OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE INFORMATION SHOWN ON THE DRAWINGS. FAILURE BY THE CONTRACTOR TO HAVE ACCURATE INFORMATION WITH AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE DRAWINGS.

THESE DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS AND LIMITED-FIELD MEASUREMENTS AND MAY NOT FULLY REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND NOTIFY THE ARCHITECT IN WRITING OF ANY WORK DESCRIBED IN THE CONTRACT DOCUMENTS WHICH CANNOT BE PERFORMED DUE TO EXISTING CONDITIONS.

EXISTING EGRESS, ACCESS, PROTECTION AND FIRE PROTECTION SHALL BE MAINTAINED DURING DEMOLITION WORK. DEMOLITION, ACCESS AND EGRESS SHALL BE OPERATIONAL AFTER COMPLETION OF DEMOLITION WORK.

SAFETY WITH OWNER FINAL DISPOSITION OF ALL MECHANICAL EQUIPMENT TO BE REMOVED. ITEMS TO BE SALVAGED FOR OWNER SHALL BE COLLECTED AND STORED AT OWNER DESIGNATED LOCATION WITHIN THE BUILDING FOR REMOVAL BY OWNER. ITEMS REFUSED BY THE OWNER SHALL BE REMOVED BY THE CONTRACTOR AND BE PROBABLY DISPOSED OF OFF-SITE WITHIN 10 WORKING DAYS OF ITS REMOVAL.

PROTECTION FROM DAMAGE: ALL MATERIALS TO REMAIN ANY WORK DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO AS-BUILT CONDITION PRIOR TO PROCEEDING WITH THE WORK.

DEMOLITION WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THOSE ITEMS NOTED: OTHER ITEMS TO BE REMOVED SHALL BE IDENTIFIED AND SPECIFICALLY NOTED ON THE DRAWINGS ARE TO BE REMOVED. CONTRACTOR IS REQUIRED TO PROVIDE ACCESS AND ALLOW ALTERATION OR WORK OTHER TO PROCEED.

CONTRACTOR SHALL USE CAUTION WHEN PERFORMING DEMOLITION ON OR NEAR FIRE-RATED ASSEMBLIES SCHEDULED TO REMAIN SO AS NOT TO DISRUPT THE INTEGRITY OF THE FIRE RATING. REPAIR ANY DAMAGE TO RATED WALLS AS REQUIRED TO MAINTAIN THE DESIGNED WALL RATING.

NOT ALL MECHANICAL & ELECTRICAL EQUIPMENT (WHICH IS REQUIRED TO BE REMOVED) IS SHOWN. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL MECHANICAL & ELECTRICAL EQUIPMENT TO BE REMOVED. EQUIPMENT WHICH WILL NO LONGER BE USED (E.G. PIPES, CONDENSERS AND DUCTS) SHALL BE REMOVED COMPLETELY BACK TO THE POINT OF SERVICE TO BE REUSED AND CAPPED OR PLUGGED AS INDICATED ON HVAC & ELECTRICAL DRAWINGS. REMOVE ALL UNUSED HANGERS.

DEMOLITION ASSEMBLIES SHALL BE MAINTAINED IN ACCORDANCE WITH AN APPROVED AND TESTED UL 90C/FIRE-RATED PENETRATION FIRESTOP SYSTEM AS SPECIFIED IN THE FIRE RESISTANCE DIRECTORY.

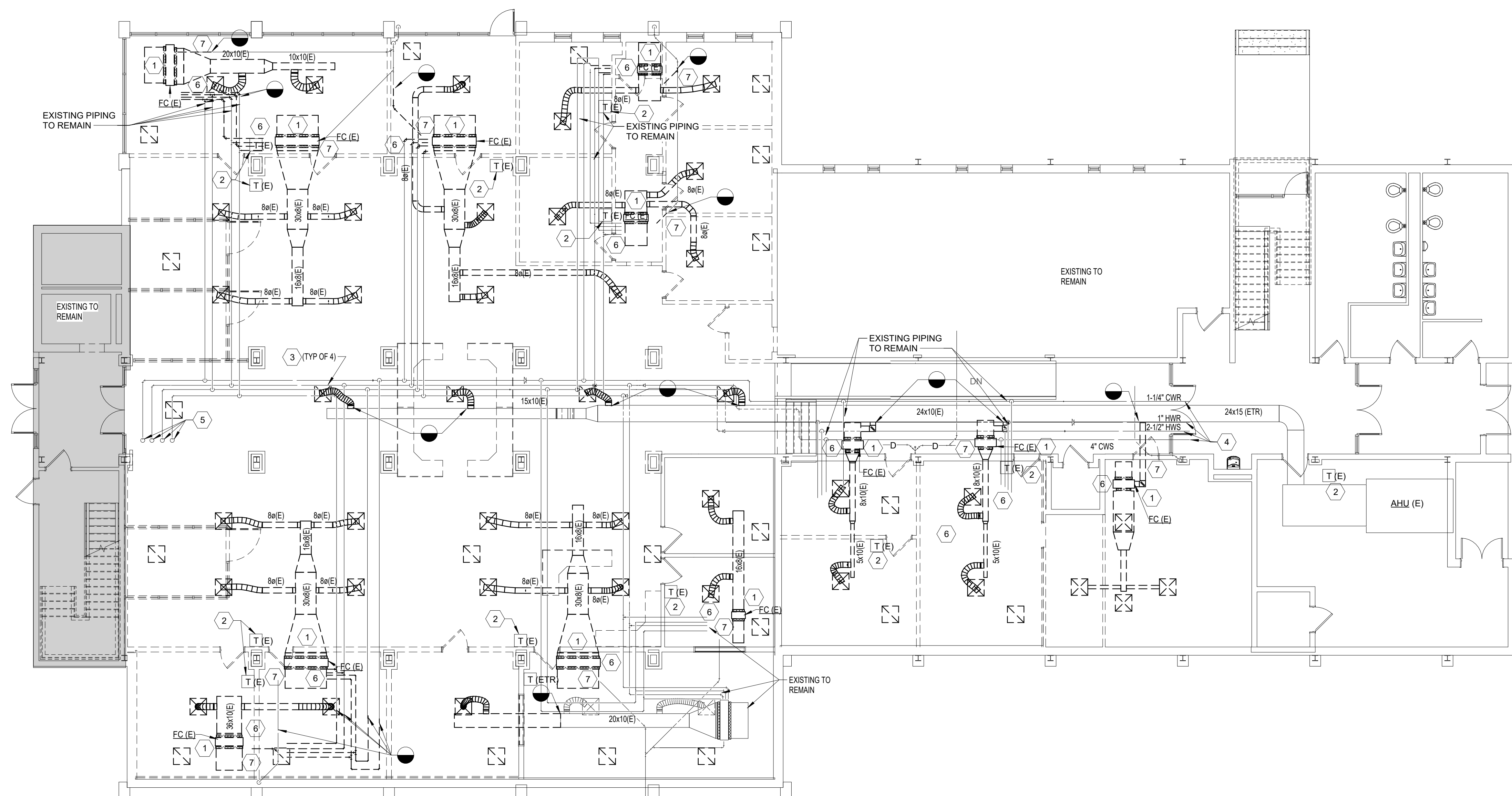
PORTIONS IF THE BUILDINGS WILL BE OCCUPIED DURING THIS DEMOLITION, THE GENERAL CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROVIDE FOR THE PROTECTION AND SAFETY OF THE BUILDING OCCUPANTS.

IF ANY SUSPECT HAZARDOUS MATERIALS ARE ENCOUNTERED BY CONTRACTOR, INCLUDING BUT NOT LIMITED TO MATERIALS CONTAINING ASBESTOS, LEAD, PENT, ETC. WORK IS TO STOPPED IN THE AREA WHERE SUCH MATERIALS WERE FOUND AND THE OWNER IMMEDIATELY NOTIFIED IN WRITING.

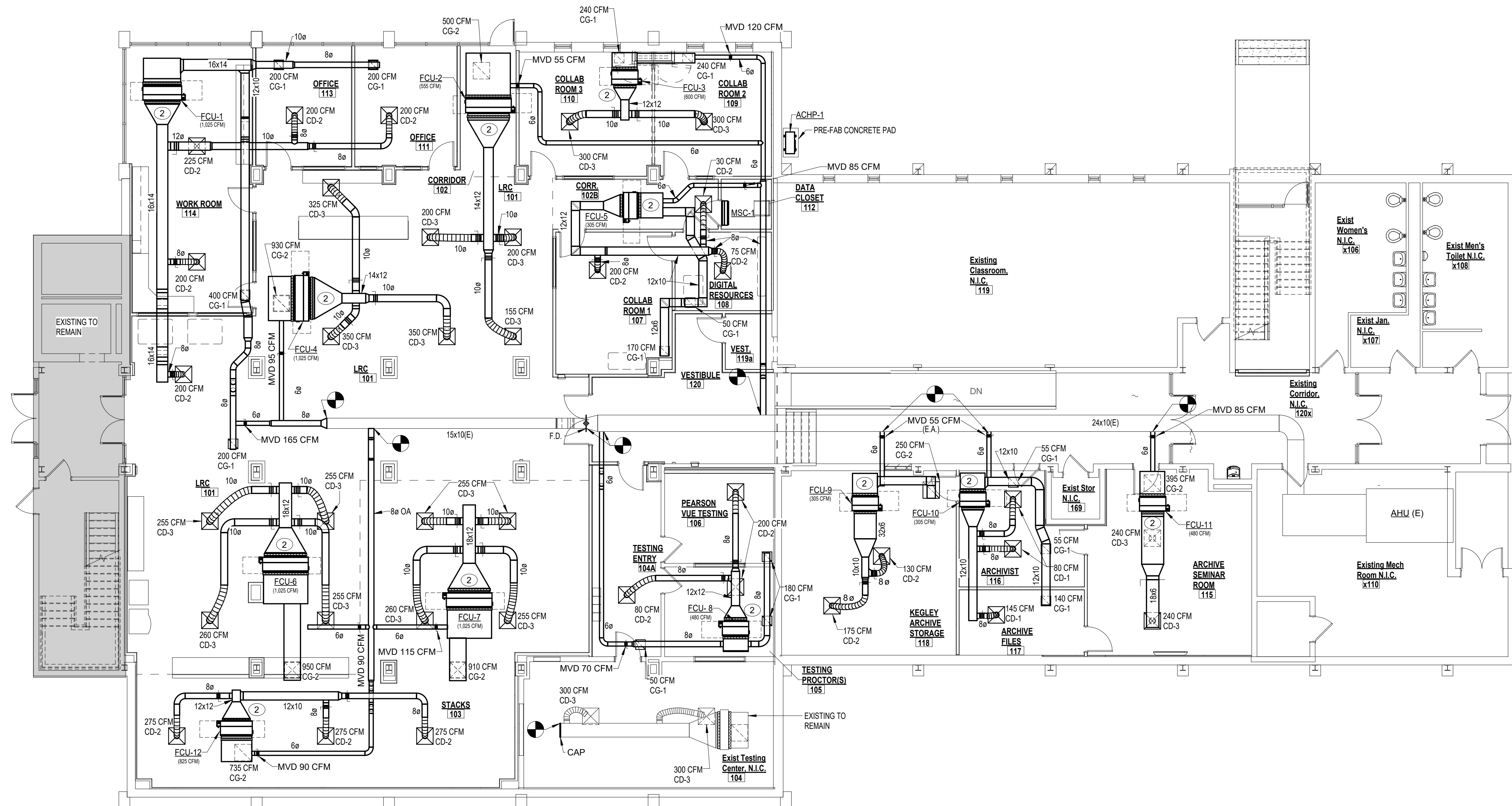
WHERE NEW OPENINGS OCCUR IN EXISTING MASSORY WALL, NEATLY SAWN CUT OPENING AND SHORR WALL. SEE STRUCTURAL DRAWINGS FOR LIMIT, REQUIREMENTS.

DEMOLITION WORK CREATING NOISE WHICH CAN BE HEARD OUTSIDE OF THE EXISTING SPACE MUST BE COORDINATED WITH THE OWNER SO AS NOT TO DISRUPT THE ADJACING SPACES.

THE SYMBOL "X" INDICATES "LIMIT OF DEMOLITION" TO EXISTING, REMAIN CAP/CUT OR PIPE TO REMAIN. IF THE EXISTING CONDITION IS NOT MADE, SEAL AIR AND/OR WATER TO PREVENT LEAKAGE.



2 GROUND FLOOR PLAN - HVAC DEMOLITION
M1.1 1/8" = 1'-0"

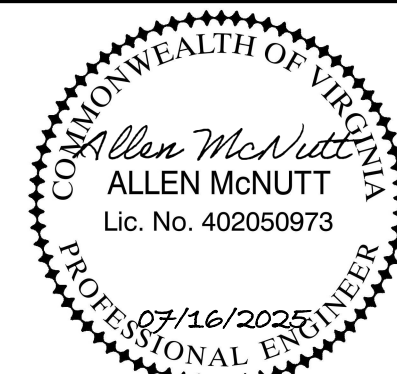


1
M1.1 1/8" = 1'-0"

The diagram shows a plan view of the test area. A large rectangular area is labeled 'WORK AREA'. To its right and below it are areas labeled 'N.I.C.' (Not In Contact), which are shaded with diagonal lines. A compass rose at the bottom left indicates 'PLAN NORTH' (pointing up) and 'TRUE NORTH' (pointing slightly to the right of up).

- ① RUN CONDENSATE DRAIN THROUGH INTERIOR WALL TO 6" ABOVE GRADE. EXTEND LINE BEYOND WALL SURFACE. TERMINATE WITH 4 DEGREE TURNDOWN ELBOW, SEAL TIGHT AGAINST AIR, WATER, AND BUG INFILTRATION WITH 1/4" W/AL. PAINT EXTERIOR PIPING TO MATCH SURROUNDING COLOR.
- ② PROVIDE FAN-COIL UNIT PER EQUIPMENT SCHEDULE ON SHEET M0.0. SPECIFICATION SECTION 2382.19, AND DETAIL "2" ON SHEET M0.0. PROVIDE ALL ASSOCIATED SUPPLY, RETURN, AND CONDITIONED OUTDOOR AIR DUCTWORK (METAL & FLEXIBLE), HANGERS, DAMPERS, DIFFUSERS, AND ASSOCIATED APPURTENANCES FOR A COMPLETE AND FULLY-FUNCTIONAL SYSTEM.
- ③ RE-USE THE EXISTING CONDENSATE DRAIN LINES. CONNECT CONDENSATE DRAIN FROM NEW FAN-COIL UNITS TO EXISTING LINE.

- 1 DEMOLISH AND REMOVE EXISTING FAN COIL COMPLETE. REMOVE ALL ASSOCIATED FLEXIBLES & MET. DUCTWORK, HANGERS, AND ASSOCIATED APPURTENANCES.
- 2 DEMOLISH AND REMOVE EXIST. REMOTE FAN COIL THERMOSTAT COMPLETE.
- 3 DEMOLISH AND REMOVE EXIST. SUPPLY AIR DIFFUSER AND FLEXIBLE DUCTWORK BACK TO SUPPLY AIR RISE.
- 4 EXISTING HYDRONIC SUPPLY & RETURN PIPING TO REMAIN.
- 5 EXISTING HYDRONIC SUPPLY & RETURN PIPING UP TO FIRST FLOOR.
- 6 DEMOLISH AND REMOVE EXISTING HYDRONIC SUPPLY & RETURN PIPING ONLY TO THE EXTENT NECESSARY TO REMOVE EXISTING HVAC UNIT AND FACILITATE NEW UNIT INSTALLATION.
- 7 DISCONNECT EXISTING CONDENSATE DRAIN LINE FROM FAN COIL. FAN COIL TO BE DEMOLISHED AND REMOVED. DEMOLISH AND REMOVE EXISTING CONDENSATE DRAIN PIPING ONLY TO THE EXTENT NECESSARY TO REMOVE EXISTING HVAC UNIT AND FACILITATE NEW UNIT INSTALLATION. CAP ANY DRAINAGE LINES INDICATED NOT TO BE REUSED.



PROJECT TITLE

**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

S F C S | Architecture
Engineering
Planning
Interiors

SFCS Inc. ■ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ■ Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER	:	BLB/CYW
PROJECT ARCHITECT	:	BLB
PROJECT ENGINEER	:	KFY
DRAWN BY	:	PAA
CHECKED BY	:	Checker
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

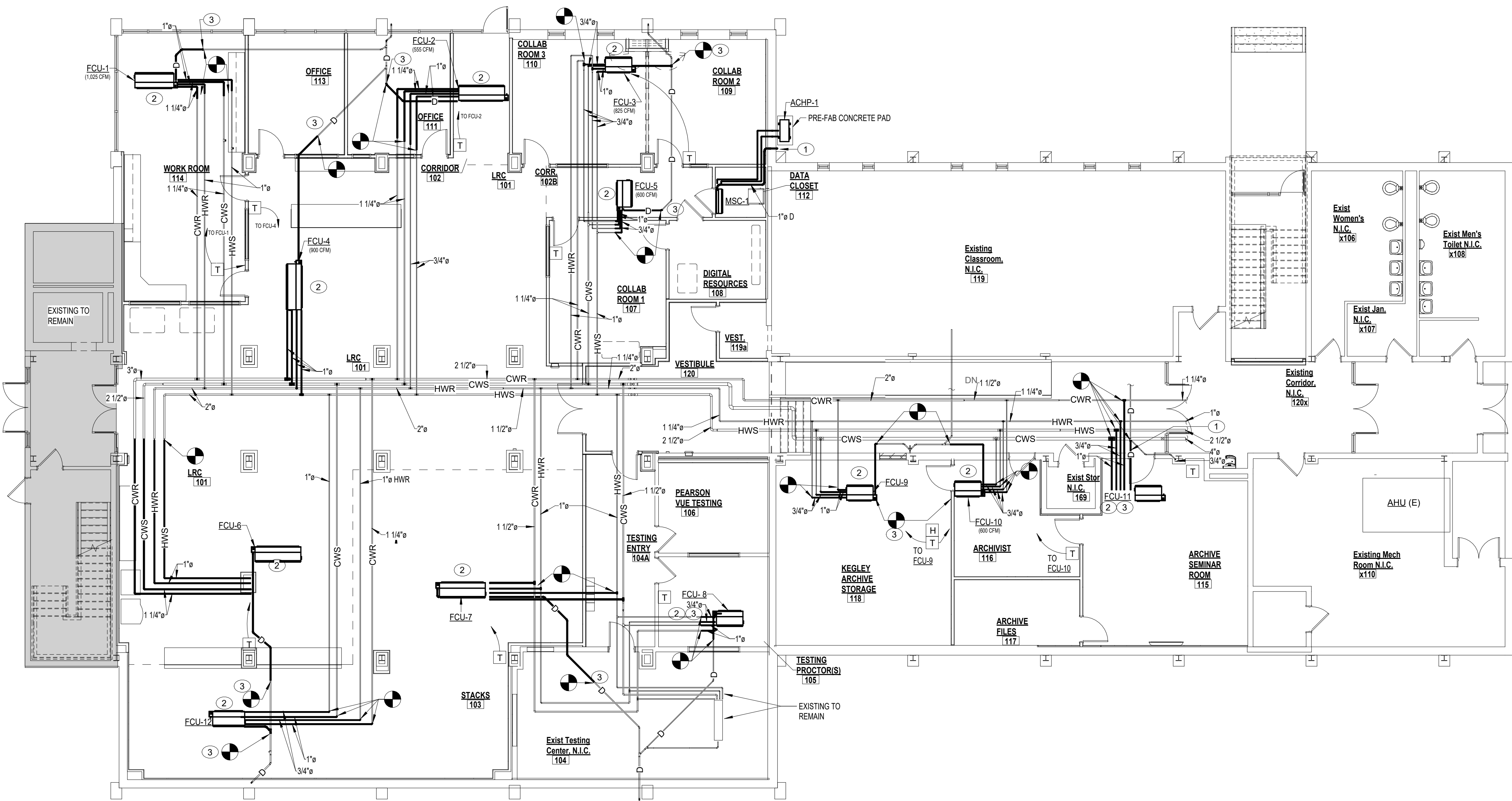
DRAWING TITLE

GROUND FLOOR PLAN
- HVAC DEMOLITION
AND NEW WORK

COMM. NO. 20301.13	DATE JULY 16, 2025
DRAWING	

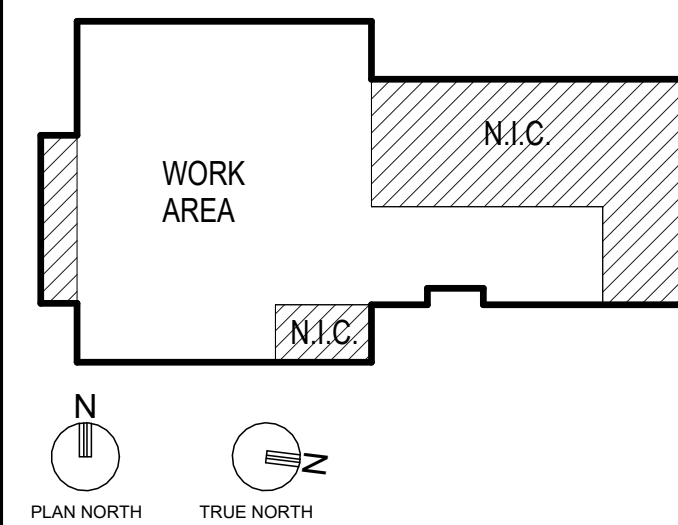
M1.1

1" = 12'-0"
1/2" = 6'-0"
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100
SCALE: 1/2" = 1'-0"
1" = 12'-0"
1/2" = 6'-0"
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100
SCALE: 1/2" = 1'-0"
1" = 12'-0"
1/2" = 6'-0"
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100
SCALE: 1/2" = 1'-0"
1" = 12'-0"
1/2" = 6'-0"
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100
SCALE: 1/2" = 1'-0"
1" = 12'-0"
1/2" = 6'-0"



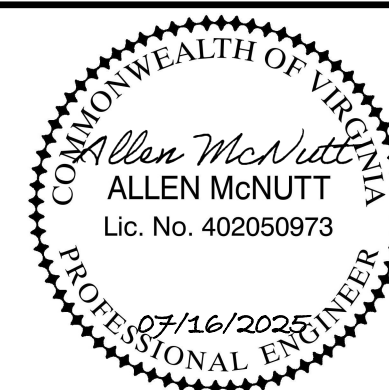
1 GROUND FLOOR PLAN - PIPING
M1.2 1/8" = 1'-0"

KEYPLAN



PLAN NOTES

- 1 RUN CONDENSATE DRAIN THROUGH INTERIOR WALL TO 6" ABOVE GRADE. EXTEND LINE 2' BEYOND WALL SURFACE. TERMINATE WITH 45 DEGREE TURNDOWN ELBOW. SEAL TIGHT AGAINST AIR, WATER AND BUG INFILTRATION WITH 1/4" WWM. PAINT EXTERIOR PIPING TO MATCH SURROUNDING COLOR.
- 2 PROVIDE FAN-COIL UNIT PER EQUIPMENT SCHEDULE ON SHEET M0.0. SPECIFICATION SECTION 238216, AND DETAIL "Z" ON SHEET M0.0. PROVIDE ALL ASSOCIATED SUPPLY, RETURN, AND CONDITIONED OUTDOOR AIR DUCTWORK (METAL & FLEXIBLE), HANGERS, DAMPERS, DIFFUSERS, AND ASSOCIATED APPURTENANCES FOR A COMPLETE AND FULLY-FUNCTIONAL SYSTEM.
- 3 RE-USE THE EXISTING CONDENSATE DRAIN LINES. CONNECT CONDENSATE DRAIN FROM NEW FAN-COIL UNITS TO EXISTING LINE.



PROJECT TITLE

WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA

BID SET

PROJECT CODE: #260-B4260-040

SFCS

Architecture
Engineering
Planning
Interiors

SFCS Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011 2003
540.344.6664 • Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER	: BLB/CYW	
PROJECT ARCHITECT	: BLB	
PROJECT ENGINEER	: Designer	
DRAWN BY	: Author	
CHECKED BY	: Checker	
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GROUND FLOOR PLAN
- PIPING

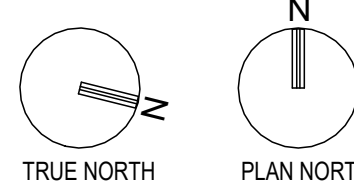
COMM. NO.

20301.13

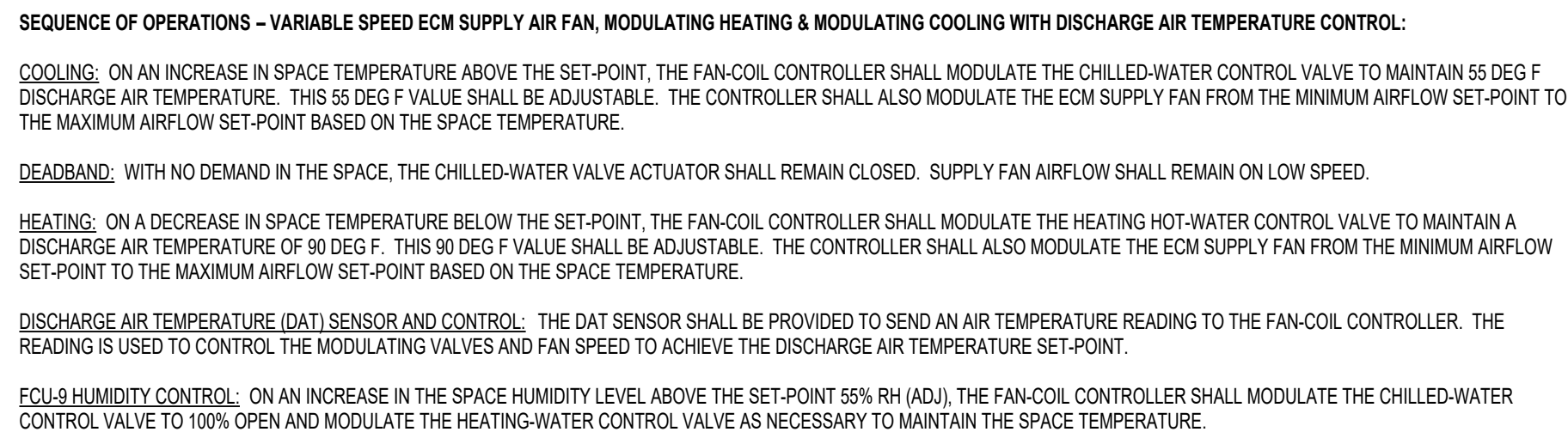
DATE

JULY 16, 2025

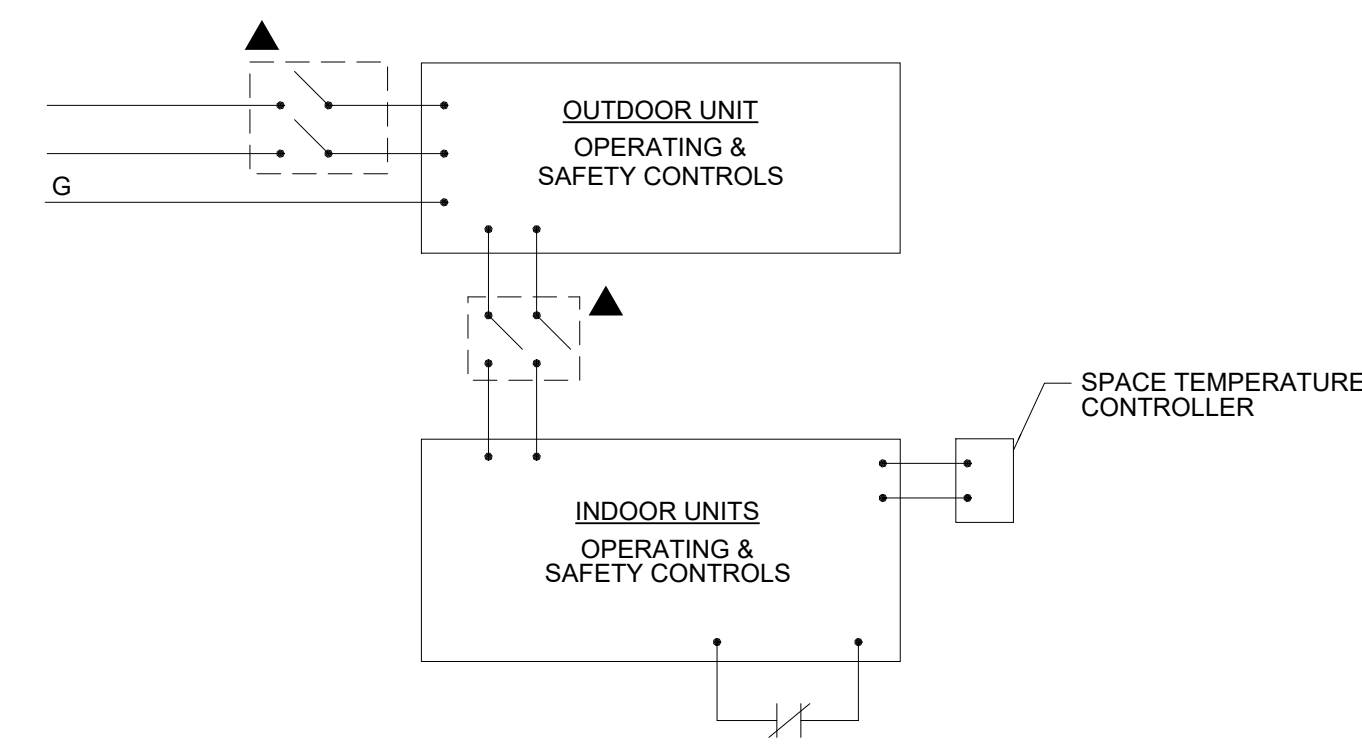
DRAWING



M1.2



DUCTLESS SYSTEM AIR CONDITIONING
UNITS (MSC)



5 RETURN AIR SOUND BAFFLE DETAIL
1" = 1'-0"

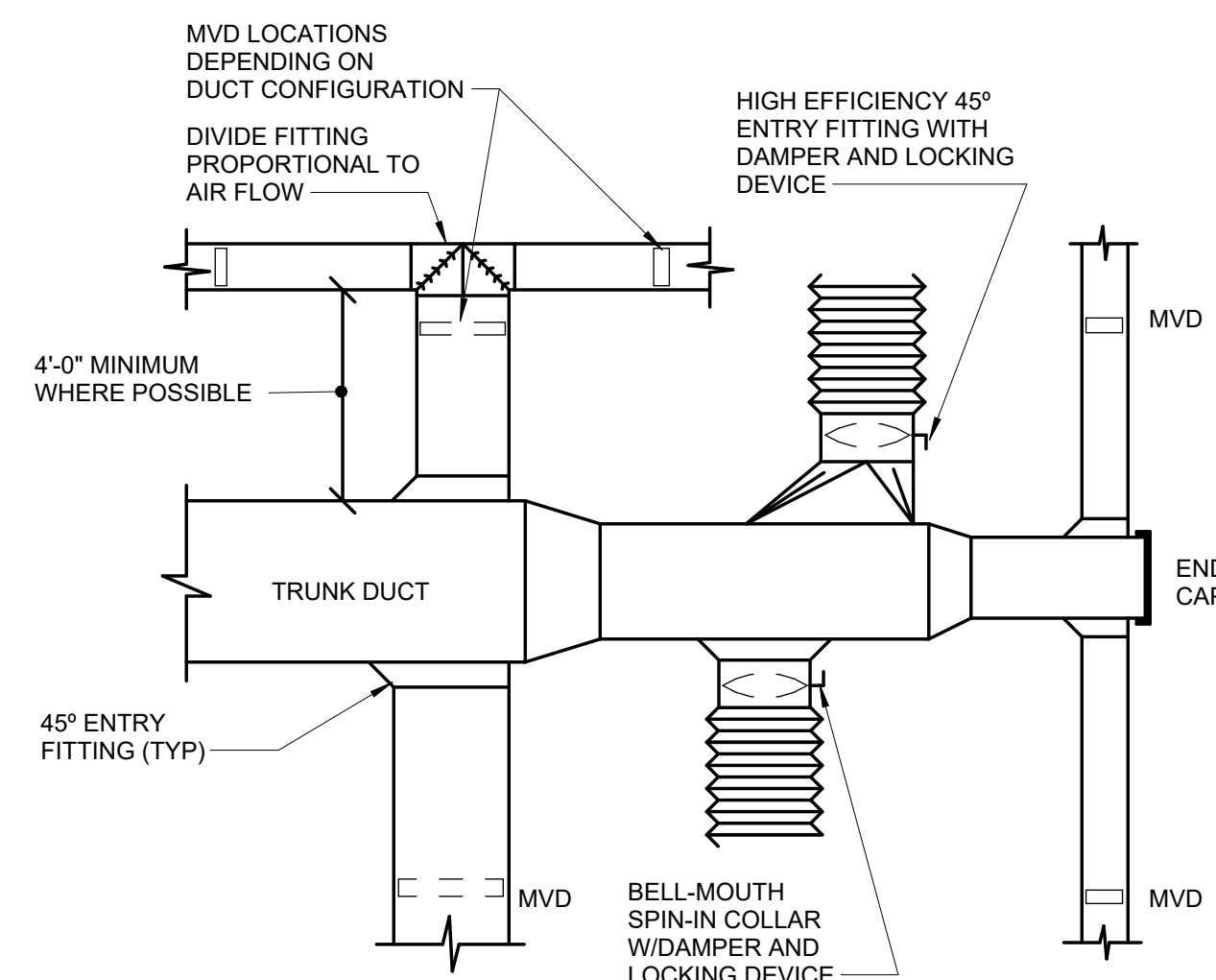


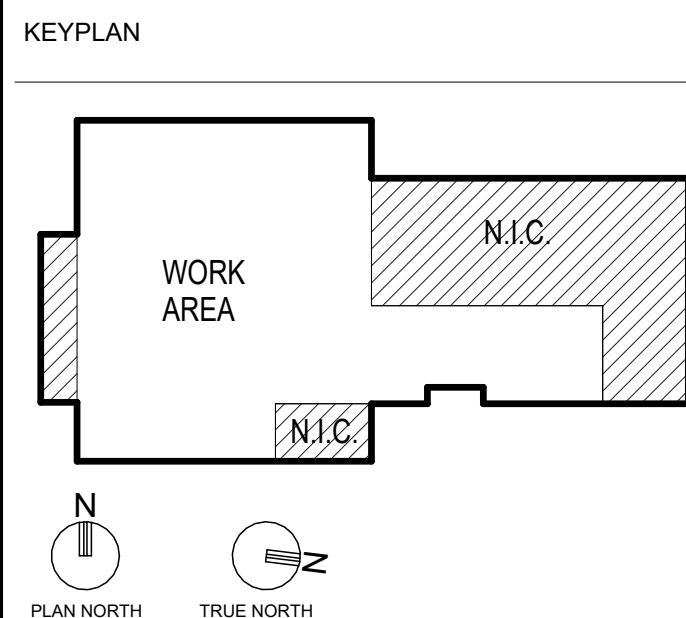
Diagram illustrating the installation of a split system (MSC-1 Wall-Mounted Blower Coil and ACHP-1 Outdoor Unit) showing the routing of refrigerant lines (1/2" RG and 1/4" RL) and the condensate drain (1" Condensate Drain) through the ceiling and exterior wall.

REFRIGERANT PIPING DIAGRAM

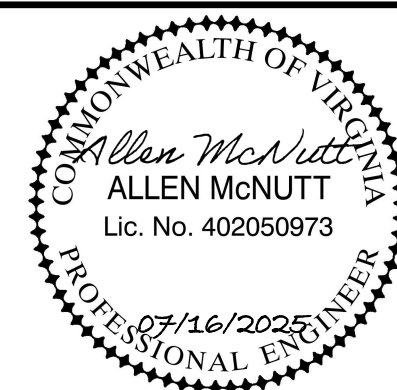
[illegible]

NOTES:

1. REFER TO SPECIFICATION SECTION "23 82 19 - FAN COIL UNITS" FOR ADDITIONAL REQUIREMENTS.
2. REFER TO DETAILS 2 & 6 ON SHEET M1.3 FOR ADDITIONAL REQUIREMENTS.



GENERAL NOTES



PROJECT TITLE

**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

S F C S

SFCS Inc. ■ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ■ Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER	:	BLB/CYW
PROJECT ARCHITECT	:	BLB
PROJECT ENGINEER	:	Designer
DRAWN BY	:	Author
CHECKED BY	:	Checker
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

DETAILS - HVAC

COMM. NO. 20301.13	DATE JULY 16, 2023
DRAWING	

M1.3



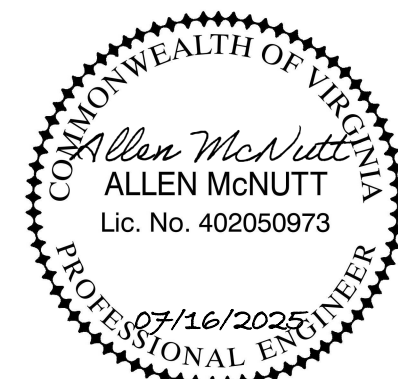
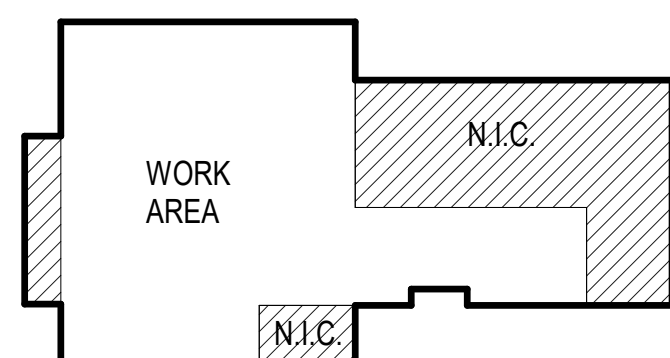
GROUND FLOOR PLAN - WATER

PLUMBING SYMBOLS LEGEND

1. ALL PLUMBING WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL STATE AND LOCAL CODES, AMENDMENTS AND ORDINANCES.
2. ALL PIPING PASSING THROUGH FIRE RATED OR FIRE AND SMOKE RATED ASSEMBLIES SHALL BE SLEEVED AND FIRESTOPPED. FIRESTOPPING SHALL COMPLY WITH U.L. LISTING AND REQUIREMENTS FOR ASSEMBLY TYPE BEING PENETRATED.
3. PLUMBING CONTRACTOR SHALL NOT CORE DRILL OR DISTURB ANY STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
4. PLUMBING CONTRACTOR SHALL COORDINATE PIPING LOCATIONS AND ROUTING WITH OTHER PIPING OUTWORK AND ELECTRICAL CONDUIT INSTALLATIONS. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO ESTABLISH WHERE FURROWS AND SPOFFS OCCUR AND DIMENSIONS OF SAME SO THAT DISTANCES AND PIPING ROUTING CAN BE PROPERLY COORDINATED. ALL PIPING SHALL BE PROPERLY SUPPORTED IN A COOLED MANNER.
5. PLUMBING CONTRACTOR SHALL AVOID LOCATING HVAC PIPING IN LOCATIONS WHERE POSSIBILITY OF FREEZING OF SAME EXISTS. CONTRACTOR SHALL ADVISE ENGINEER WHEN THIS CONDITION MAY OCCUR PRIOR TO REQUEST FOR AWARD.
6. COORDINATE ROUTING OF ALL PIPING WITH THE ELECTRICAL CONTRACTOR SO AS NOT TO ROUTE ANY PLUMBING LINES OVER ELECTRICAL PANELS, SWITCHGEAR, ETC.
7. PLASTIC PIPING SHALL NOT BE INSTALLED IN ANY SPACE THAT IS A RETURN AIR PLenum. COORDINATE WITH MECHANICAL CONTRACTOR FOR PLenum LOCATIONS PRIOR TO INSTALLATION OF ANY PIPING. ONLY PLASTIC PIPING THAT IS APPROVED FOR PLenum SPACES AND IS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION MAY BE INSTALLED IN RETURN AIR PLenums.
8. PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS. THE ESTIMATED WEIGHT ASSIGNED TO PIPE AND EQUIPMENT HANGERS SHALL BE DETERMINED BY THE PLUMBING CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW. COORDINATION AND APPROVAL PRIOR TO INSTALLATION THIS REQUIREMENT APPLIES TO ALL PLUMBING PIPING.

CONNECT NEW TO EXISTING	
PIPE TURNING UP	
PIPE TURNING DOWN	
COLD WATER PIPING	
HOT WATER SUPPLY	
BRANCH CONNECTION	
SERVICE VALVE (BALL)	
CHECK VALVE	

KEYPLAN



PROJECT TITLE

**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

S F C S

Architecture
Engineering
Planning
Interiors

SFCS Inc. ■ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ■ Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER	:	BLB/CYW
PROJECT ARCHITECT	:	BLB
PROJECT ENGINEER	:	AJM
DRAWN BY	:	MAH/DPW
CHECKED BY	:	MAH/DPW
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

GROUND FLOOR PLAN
- WATER

COMM. NO.
20301.13

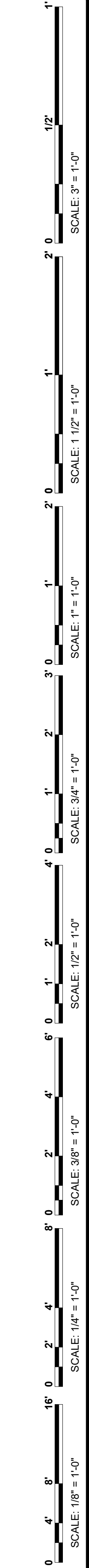
DRAWING

DATE
JULY 16, 2025

DRAWING:

DRAWING

P1.1

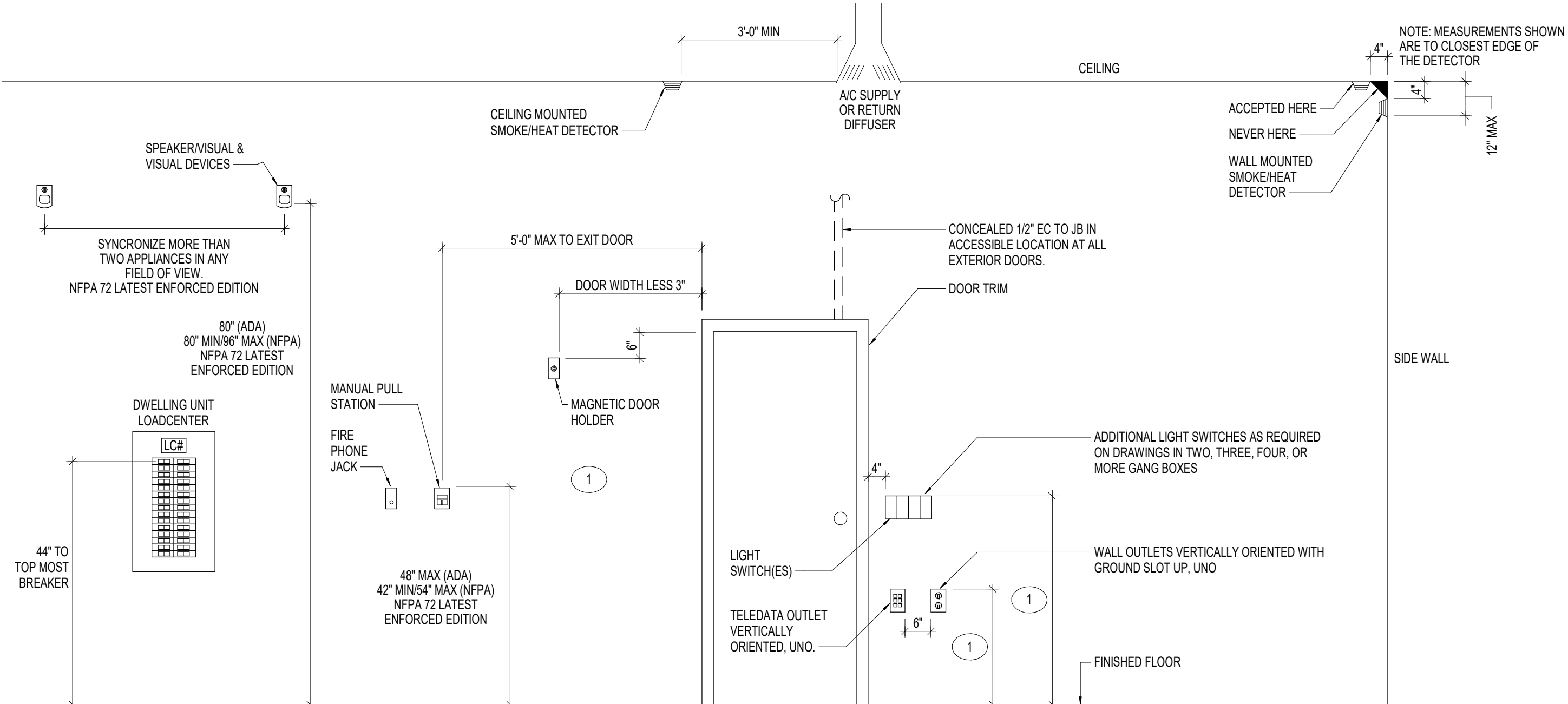


ELECTRICAL ABBREVIATIONS (NOTE 1)

A OR AMP	AMPERE	FA	FIRE ALARM	NEC	NATIONAL ELECTRICAL CODE
ABV	ABOVE	FACP	FIRE ALARM CONTROL PANEL	NEUT	NEUTRAL
AC	ALTERNATING CURRENT	FDR	FEEDER	NFSS	NON-FUSIBLE SAFETY SWITCH NUMBER
ACB	ABOVE COUNTER BACKSPLASH	FC	FOOTCANDLE	NO	OVERHEAD
AFCI	ARC FAULT CIRCUIT INTERRUPTER	FLUOR	FLUORESCENT	OH	OVERHEAD
AFD	ADJUSTABLE FREQUENCY DRIVE	FSDR	MOTOR OPERATED FIRES/SMOKE DAMPER	P	POLE
AFF	ABOVE FINISHED FLOOR	FSTR	FUSIBLE SAFETY SWITCH	PBS	PULL BOX OR PUSH/BUTTON
AIC	AMPERES INTERRUPTING CAPACITY	GO	GENERATOR	PBS	PUSHBUTTON STATION
AL	ALUMINUM	GEN	GENERATOR	PH ()	PHASE
AM	AMMETER	GFI	GROUND FAULT	PNL	PANEL
AMPL	AMPLIFIER	GND	GROUND	PNLB	PANELBOARD
ASYM	ASYMMETRICAL	H	HORIZONTAL	PRI	PRIMARY
ATS	AUTOMATIC TRANSFER SWITCH	HI	HIGH INTENSITY DISCHARGE	PT	POTENTIAL TRANSFORMER
AWS	AMERICAN WIRE GAGE	HDA	HAND-OPERATED AUTOMATIC	PVC	POLYVINYL CHLORIDE
		HG	HOSPITAL GRADE	PWR	POWER
BEL	BELOW	HGT	HIGH INTENSITY DISCHARGE		
BD	BUS DUCT	HDI	HEIGHT		
BOIT	BOTTOM	HDA	HAND-OPERATED AUTOMATIC		
BRKR	BREAKER	HP	HORSEPOWER OR HEAT PUMP		
		HPF	HIGH POWER FACTOR		
C	COUNTERTOP	HPS	HIGH-PRESSURE SODIUM		
CA	CABLE	HTR	HEATER		
CAB	CABINET	HW	HOT WATER		
CATV	COMMUNITY ANTENNA TELEVISION OR CABLE TELEVISION	HZ	HERTZ		
CB	CIRCUIT BREAKER	IC	INTERCOM OR INTERRUPTING CAPACITY		
CCTV	CLOSED CIRCUIT TELEVISION	IG	ISOLATED GROUND		
CF	COMPACT FLUORESCENT	IMC	INTERMEDIATE METAL CONDUIT		
CKT	CIRCUIT	INC	INCANDESCENT		
CLS	CEILING	INT	INITIAL		
CND	CONDUIT				
CNTR	CENTER				
CONB	COMBINATION				
COND	CONDUCTOR				
CONN	CONNECTION				
CONT	CONTACTOR				
CT	CURRENT TRANSFORMER				
CTRL	CONTROL				
CU	COPPER				
CW	COLD WATER				
DB	DOOR BELL				
DC	DIRECT CURRENT				
DM	DIMENSION				
DISC	DISCONNECT				
DR	DOOR RELEASE SERVICE				
DS	DOOR SWITCH				
DWG	DRAWING				
E OR EMER	EMERGENCY				
EL	EXISTING TO BE RELOCATED				
ELEC	ELECTRIC(AL)				
ELEV	ELEVATION/ELEVATOR				
EM	EXISTING TO BE REMOVED				
ENL	EXIST REMOVED AND RELOCATED TO THIS POSITION				
ENM	EXISTING TO BE REMOVED AND NEW INSTALLED				
EMT	ELECTRICAL METALLIC TUBING				
ENCL	ENCLOSURE				
ENG	ENGINE				
EP	EXPLOSIONPROOF				
EQU	EQUIPMENT				
ER	EXISTING TO REMAIN				
ERC	ELEVATOR RECALL				
EW	ELECTRIC WATER COOLER				
EXT	EXISTING EXTERIOR				

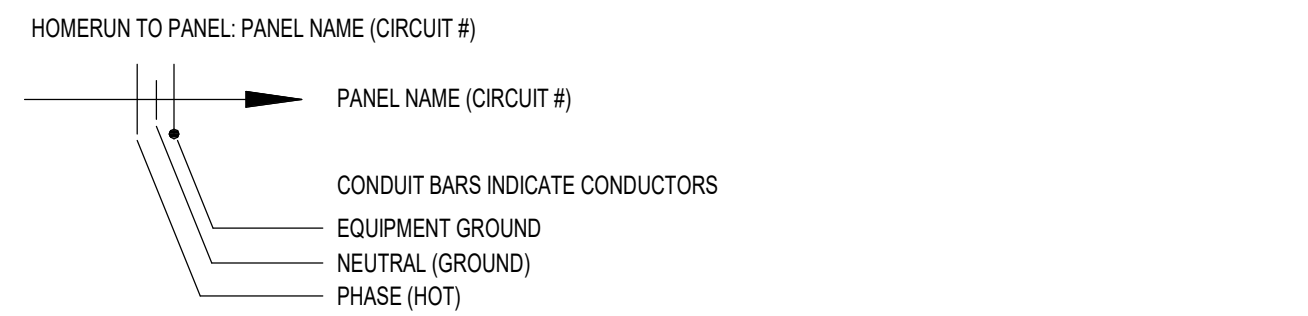
ELECTRICAL SYMBOL LEGEND (NOTE 1)

LIGHTING			GENERAL		
MTG. HGT. (NOTE 2)	SYMBOL (NOTES 3 & 4)	DESCRIPTION	MTG. HGT. (NOTE 2)	SYMBOL (NOTES 3 & 4)	DESCRIPTION
		CEILING MOUNTED RECESSED LUMINAIRE. (NOTE 6)			PLAN NOTE DESIGNATION.
		CEILING SURFACE MOUNTED LUMINAIRE. (NOTE 6)			KITCHEN EQUIPMENT DESIGNATION.
		WALL MOUNTED LUMINAIRE. (NOTE 6)			LUMINAIRE TYPE DESIGNATION.
		CEILING MOUNTED LUMINAIRE. (NOTE 6)			
		SURFACE OR PENDANT CEILING MOUNTED LUMINAIRE. (NOTE 6)			
		WALL MOUNTED LUMINAIRE. (NOTE 6)			
		CEILING MOUNTED EXIT SIGN. SHADED QUADRANT(S) INDICATES FACE(S). PROVIDE ARROWS AS INDICATED ON DRAWINGS. LUMINAIRE TYPE "X1", UNO.			
		WALL MOUNTED EXIT SIGN. SHADED QUADRANT(S) INDICATES FACE(S). PROVIDE ARROWS AS INDICATED ON DRAWINGS. LUMINAIRE TYPE "X1", UNO.			
		SELF-CONTAINED EMERGENCY LIGHTING UNIT, WALL.			
3'-10"		GENERAL USE SWITCH, SINGLE POLE. LOWER CASE ALPHABETIC SUBSCRIPT WHERE SHOWN, INDICATES LOADS CONTROLLED. (TYP FOR ALL SWITCHES.)			
3'-10"		GENERAL USE SWITCH, THREE WAY.			
3'-10"		GENERAL USE SWITCH, FOUR WAY.			
3'-10"		GENERAL USE SWITCH, KEY OPERATED.			
3'-10"		TIMER SWITCH, WALL-BOX MOUNTED.			
3'-10"		FANLIGHT CONTROL SWITCH, FOUR POSITION FOR SEPERATE CONTROL OF FAN AND FAN LIGHT KIT. SWITCH FURNISHED WITH FAN BY FAN MANUFACTURER.			
3'-10"		OCCUPANCY SENSOR SWITCH, WALL MOUNTED. DUAL TECHNOLOGY TYPE UNLESS INDICATED OTHERWISE. SUBSCRIPT: "R" = INFRARED TYPE, "U" = ULTRASONIC TYPE, "2" = 2-POLE DUAL RELAYS, "D" = DIMMER LOWERCASE ALPHABETIC SUBSCRIPT, WHERE SHOWN, INDICATES LOADS CONTROLLED. SET TIME DELAY TO AUTOMATIC UNLESS INDICATED OTHERWISE. SET TO MANUAL ON AUTO-OFF OPERATION UNLESS INDICATED OTHERWISE.			
3'-10"		OCCUPANCY SENSOR SWITCH, CEILING MOUNTED. DUAL TECHNOLOGY TYPE UNLESS INDICATED OTHERWISE. SUBSCRIPT: "R" = INFRARED TYPE, "U" = ULTRASONIC TYPE, "2" = 2-POLE DUAL RELAYS, LOWERCASE ALPHABETIC SUBSCRIPT, WHERE SHOWN, INDICATES LOADS CONTROLLED. SET TIME DELAY TO AUTOMATIC UNLESS INDICATED OTHERWISE. SET TO MANUAL-ON OPERATION UNLESS INDICATED OTHERWISE.			
3'-10"		DIMMER SWITCH, COMPATIBLE WITH LOAD TYPE. SUBSCRIPT: "3" = THREE-WAY.			
LOW VOLTAGE					
MTG. HGT. (NOTE 2)	SYMBOL (NOTES 3 & 4)	DESCRIPTION			
1'-6" UNO		RECESSED WALL MOUNTED COMBINATION RECEPTACLE, DATA & TV OUTLETS IN 2-GANG OUTLET BOX WITH VOLTAGE BARRIER.			
		COMBINATION RECEPTACLE, DATA & TV OUTLET WITH VOLTAGE BARRIER, FLOOR.			
FIRE ALARM					
MTG. HGT. (NOTE 2)	SYMBOL (NOTES 3 & 4)	DESCRIPTION			
		SMOKE DETECTOR, CEILING. "CO" = COMBINATION CARBON MONOXIDE DETECTOR "SF" = SOUNDER BASE, LOW FREQUENCY TYPE, UNO. "D" = SMOKE DETECTOR, DUCT TYPE. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION (NOTE 7). "S" = SINGLE STATION TYPE "LP" = LOW FREQUENCY			
4'-0"		FIRE ALARM MANUAL PULL STATION.			
NOTE 7		FIRE ALARM HORN OR SPEAKER WITH INTEGRAL VISUAL DEVICE. "LP" = LOW FREQUENCY TYPE "S" = DIGITAL SPEAKER TYPE			
NOTE 7		FIRE ALARM VISUAL DEVICE.			
NOTE 7		FIRE ALARM HORN OR SPEAKER WITH INTEGRAL VISUAL DEVICE.			
		FIRE ALARM SPEAKER FOR AUDIBLE TONE, CEILING/PENDANT MOUNT.			
		FIRE ALARM SPEAKER/STROBE, CEILING/PENDANT MOUNT.			
5'-0"		FIRE ALARM ANNUNCIATOR PANEL.			
6'-0"		FIRE ALARM CONTROL PANEL.			



ELEVATIONS - ELECTRICAL & FIRE ALARM DEVICES

NO SCALE
1 REFER TO SYMBOL LEGEND ON THIS SHEET FOR EXACT HEIGHT OF DEVICES INDICATED.



- GENERAL NOTES
- NOTES (ELECTRICAL SYMBOL LEGEND)
- THESE ARE STANDARD SYMBOLS THAT APPEAR ON THE PROJECT DRAWINGS AND SHALL BE FURNISHED AND INSTALLED.
 - UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. WHERE THE MOUNTING HEIGHT INDICATED ON PLAN IS DIFFERENT FROM THE LEGEND, THE PLAN TAKES PRECEDENT.
 - INSTALL RECEPTACLE AND TELEPHONE OUTLET BOXES (OR OTHER OUTLET BOXES SUCH AS TV, COMPUTER, ETC.) 6" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL.
 - SEE ELECTRICAL ABBREVIATIONS FOR ALPHABETIC SUBSCRIPT WITH SYMBOL, UNO.
 - ARROW(S) INDICATE DIRECTION OF MAXIMUM LIGHT DISTRIBUTION.
 - * = SHADED LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT AND CONTROLLED VIA OCCUPANCY SENSOR.
 - INSTALL DETECTOR BETWEEN 0'-4" AND 1'-0" DOWN FROM THE CEILING TO THE TOP OF THE DETECTOR. UNO: FIRE ALARM VISUAL DEVICE (STAND-ALONE OR INTEGRAL STROBE) SHALL BE LOCATED 80 INCHES TO THE BOTTOM ABOVE OF HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" TO THE TOP BELOW CEILING, WHICHEVER IS LOWER.
 - REFER TO THE OTHER ABBREVIATION LISTS ELSEWHERE IN THESE DOCUMENTS FOR ABBREVIATIONS NOT LISTED HERE.
 - MOUNT ALL SINGLE AND DUPLEX WALL MOUNT RECEPTACLES VERTICALLY WITH GROUND PIN SLOT UP, EXCEPT RECEPTACLES MOUNTED HORIZONTALLY WITH GROUND PIN SLOT TO THE LEFT.
 - ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADDA REQUIREMENTS.

SHEET LIST - ELECTRICAL

SHEET NUMBER	SHEET NAME
E0.0	ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS
ED.0	ELECTRICAL DETAILS & SCHEDULES
ED.1.1	DEMOLITION PLANS
E1.1	GROUND FLOOR PLAN - LIGHTING & POWER
E4.1	ELECTRICAL RISER DIAGRAMS & PANELBOARD SCHEDULES
E7.1	GROUND FLOOR PLAN - FIRE ALARM

CODE SUMMARY

- 2021 VIRGINIA CONSTRUCTION CODE (IBC, amended)
- 2021 VIRGINIA ENERGY CODE (IECC, amended)
- 2025 CFSM MANUAL, REVISION 0
- 2020 VIRGINIA ELECTRIC CODE (NFPA 70, amended)
- 2019 VIRGINIA FIRE ALARM CODE (NFPA 72)



PROJECT TITLE
**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

SFCS Architecture
Engineering
Planning
Interiors
SFCS Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 • Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER	: BLB/CYW
PROJECT ARCHITECT	: BLB
PROJECT ENGINEER	: CW
DRAWN BY	: MAR
CHECKED BY	:
APPROVED BY	:
NO.	REVISION DESCRIPTION DATE

DRAWING TITLE
**ELECTRICAL SYMBOL
LEGEND &
ABBREVIATIONS**

COMM. NO. 20301.13	DATE JULY 16, 2025
-----------------------	-----------------------

DRAWING

E0.0

MECHANICAL EQUIPMENT SCHEDULE					
MARK	ELECTRICAL REQUIREMENTS	TYPE OF CONNECTION	WIRE SIZE	NEMA CONFIGURATION	REMARKS
ACHP-1	13A - 1P - 208V		3#12 & #12 GRD		MANUFACTURED DISCONNECT SWITCH
EDH-1	3.8kW - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-1	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-2	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-3	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-4	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-5	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-6	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-7	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-8	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-9	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-10	1.4MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-11	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
FQJ-12	1.8MCA - 1P - 208V	30A NON-FUSED DISCONNECT	3#12 & #12 GRD	NEMA 1	
MSC-1	1.0A - 1P - 208V	-	3#12 & #12 GRD		MANUFACTURED DISCONNECT SWITCH

Diagram illustrating the installation of a roof-top HVAC unit, showing the connection to the roof deck and the use of liquid-tight flexible metal conduit (LFMC) for the EMT conduit.

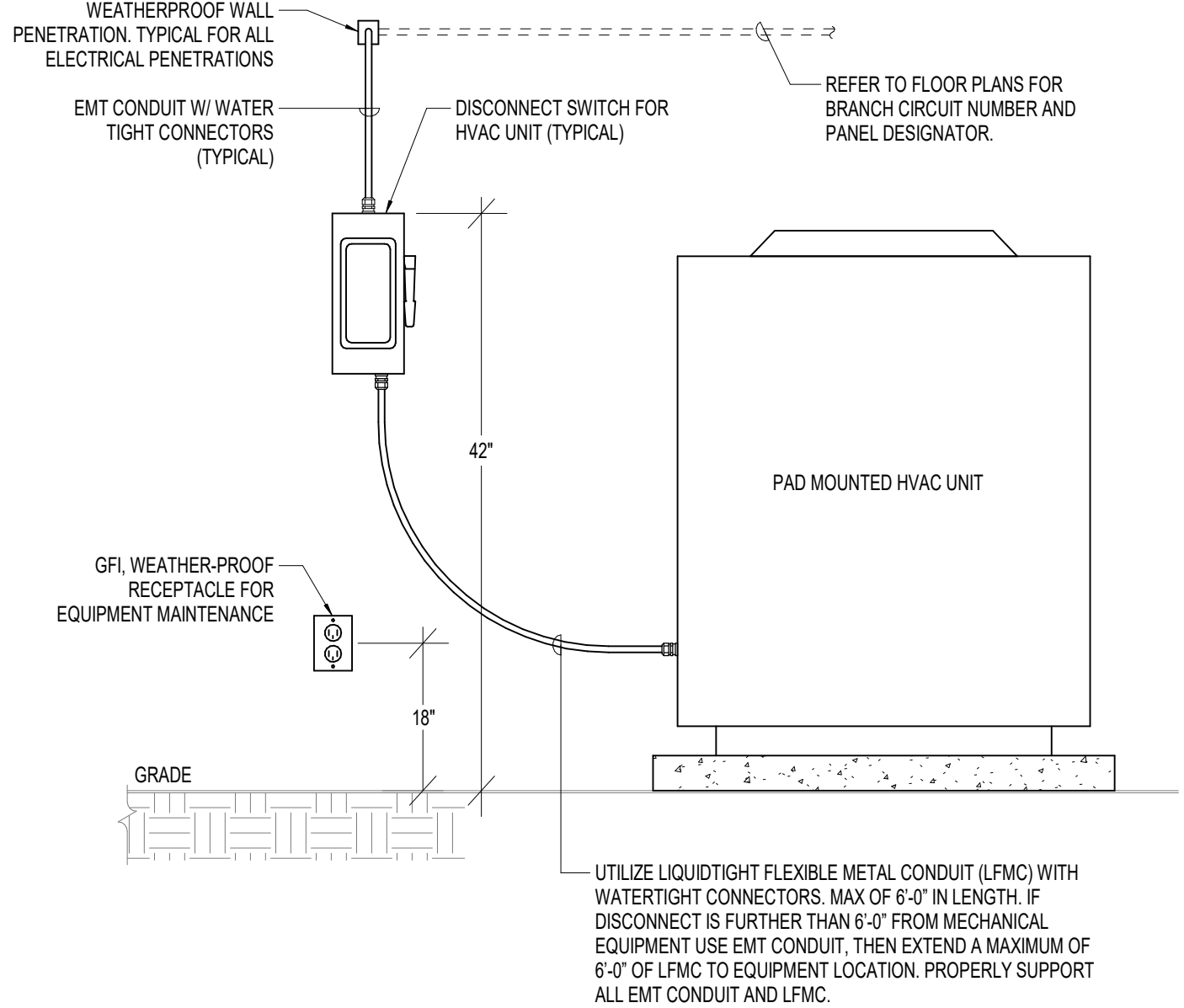
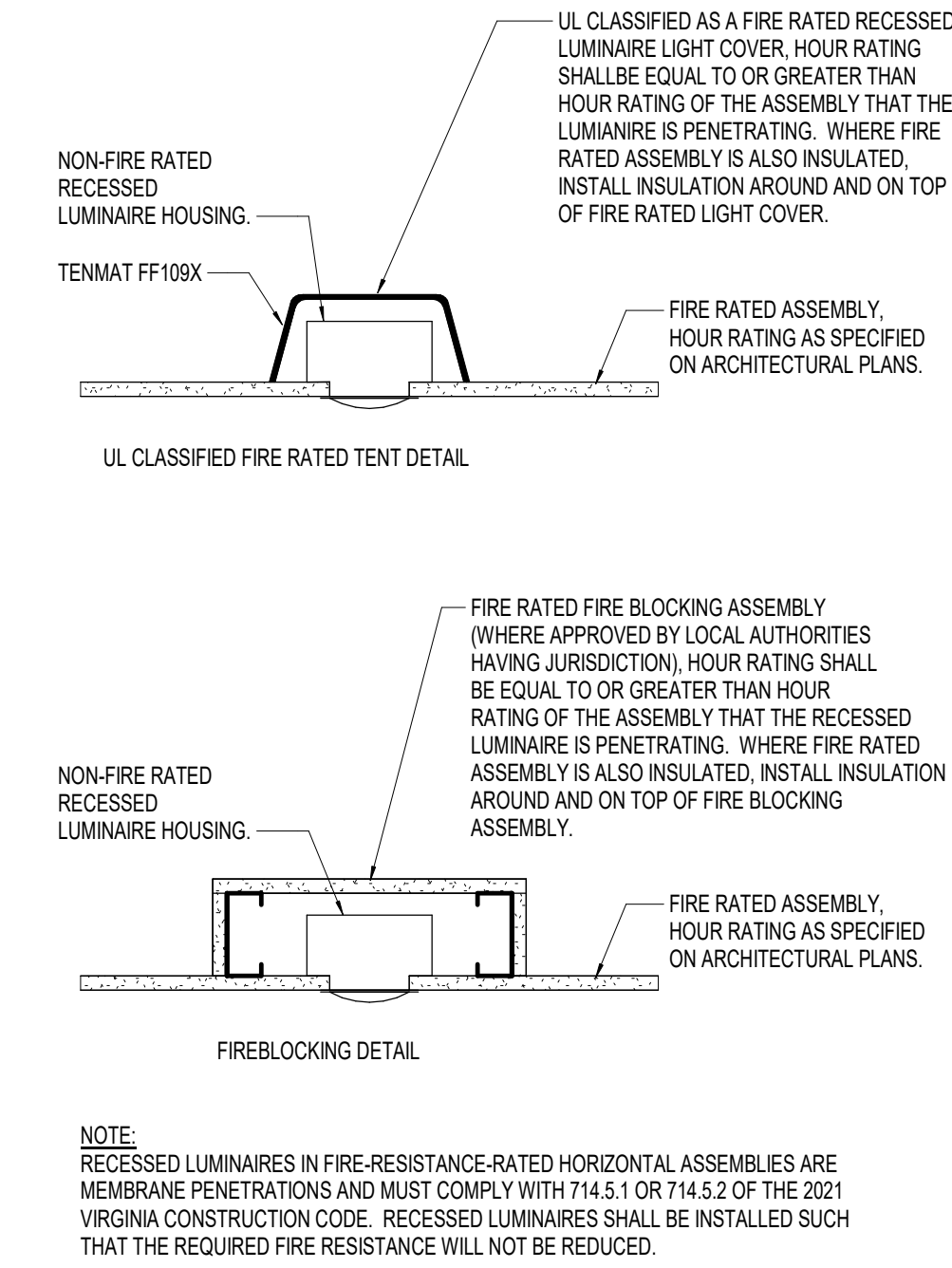
Labels and components shown in the diagram:

- DISCONNECT SWITCH FOR HVAC UNIT (TYPICAL) QUANTITY AT EACH SUPPORT MAY VARY.
- GFL WEATHER-PROOF RECEPTACLE FOR ROOF-TOP EQUIPMENT MAINTENANCE
- UNI-STRUT SUPPORT FRAME
- EMT CONDUIT W/ WATER TIGHT CONNECTORS (TYPICAL)
- WEATHERPROOF PIPE PORTAL BOOT FOR ROOF PENETRATION. TYPICAL FOR ALL ELECTRICAL PENETRATIONS
- REFER TO ROOF PLAN FOR BRANCH CIRCUIT NUMBER AND PANEL DESIGNATOR.
- 42"
- ROOF TOP HVAC UNIT
- ROOF DECK
- UTILIZE LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) WITH WATER TIGHT CONNECTORS. MAX OF 6'-0" IN LENGTH. IF DISCONNECT IS FURTHER THAN 6'-0" FROM MECHANICAL EQUIPMENT USE EMT CONDUIT, THEN EXTEND A MAXIMUM OF 6'-0" OF LFMC TO EQUIPMENT LOCATION. PROPERLY SUPPORT ALL EMT CONDUIT AND LFMC.

The diagram illustrates a cross-section of a wall assembly. A rectangular luminaire is recessed into a cavity within the wall. The wall itself is composed of multiple layers, including insulation. Arrows point from text labels to specific parts of the assembly:

- An arrow points to the luminaire with the text: "UL CLASSIFIED AS A FIRE RATED RECESSED LUMINAIRE HOUSING. HOUR RATING SHALL BE EQUAL TO OR GREATER THAN HOUR RATING OF THE ASSEMBLY THAT THE LUMINAIRE IS PENETRATING. WHERE FIRE RATED ASSEMBLY IS ALSO INSULATED, PROVIDE A COMBINATION FIRE AND IC RATED HOUSING AND INSTALL THE INSULATION AROUND AND ON TOP OF FIRE AND IC RATED HOUSING."
- An arrow points to the wall assembly with the text: "FIRE RATED ASSEMBLY. HOUR RATING AS SPECIFIED ON ARCHITECTURAL PLANS."

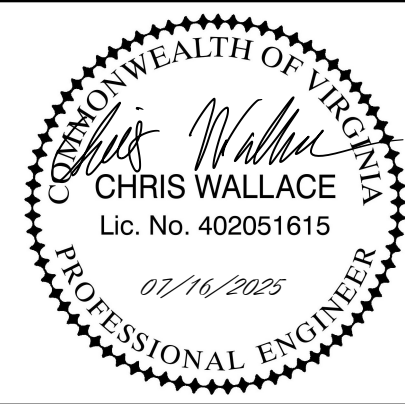
Below the diagram, the caption reads: "UL CLASSIFIED FIRE RATED HOUSING DETAIL."



DETAILS FOR MEMBRANE PENETRATIONS IN FIRE & ACOUSTICAL RATED ASSEMBLIES

DETAILS FOR LUMINAIRE
PENETRATIONS IN FIRE
RATED ASSEMBLIES

1
E0.1 N.T.S.



PROJECT CODE: #260-B4260-040

S F C S | Architecture
Engineering
Planning
Interiors

SFCS Inc. ■ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ■ Fax 540.343.6925
www.sfcs.com

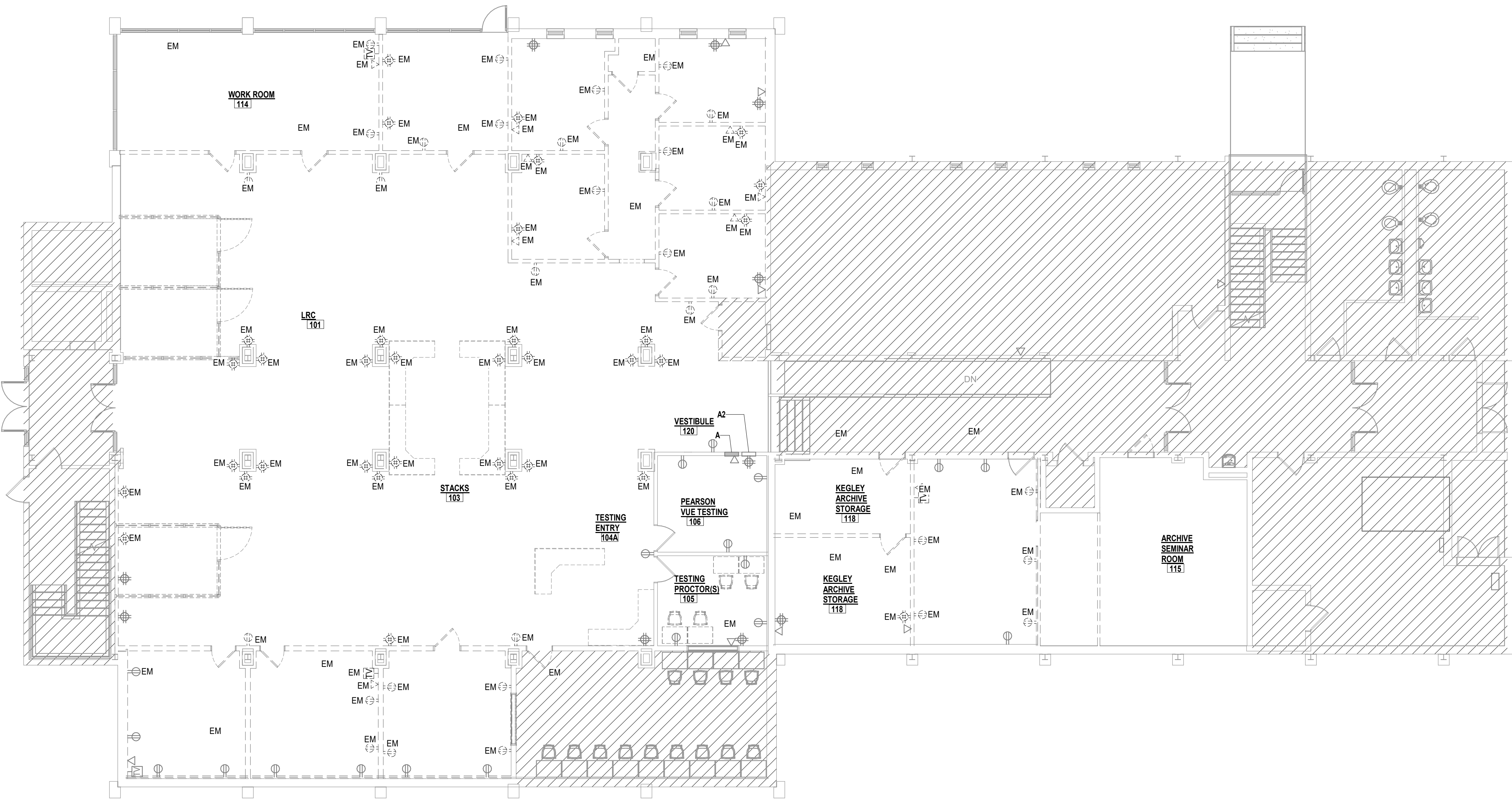
PROJECT DESIGNER	: BLB/CYW
PROJECT ARCHITECT	: BLB
PROJECT ENGINEER	: CIW
DRAWN BY	: MAR
CHECKED BY	:
APPROVED BY	:

DRAWING TITLE

ELECTRICAL DETAILS & SCHEDULES

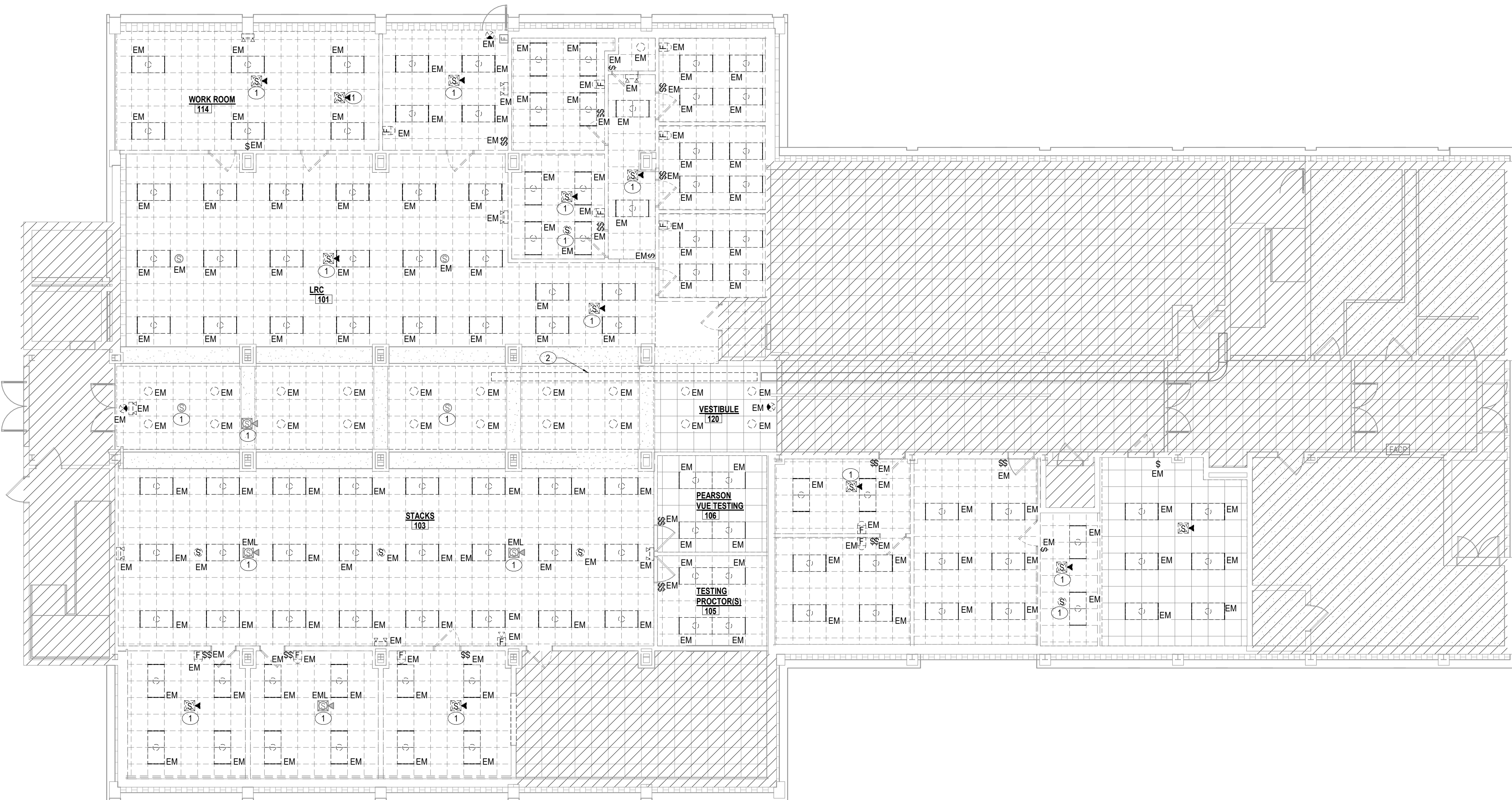
COMM. NO. 20301.13	DATE JULY 16, 2025
-----------------------	-----------------------

E0.1



2 GROUND FLOOR DEMOLITION PLAN - POWER

ED1.1 1/8" = 1'-0"



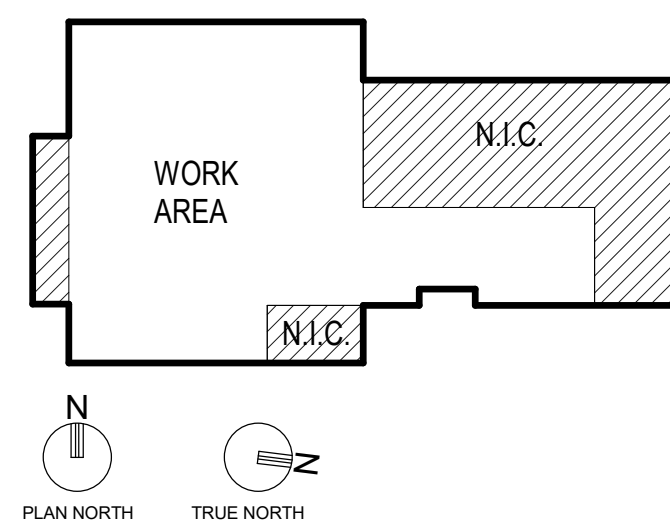
1 GROUND FLOOR DEMOLITION PLAN - LIGHTING

ED1.1 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

- BEFORE WORK IS COMMENCED, CONTRACTORS SHALL MAKE A THOROUGH SURVEY OF THE FACILITY AND NOTIFY THE OWNER IN WRITING OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS. FAILURE BY THE CONTRACTOR TO HAVE ACQUAINTED HIMSELF WITH AVAILABLE INFORMATION CONCERNING EXISTING CONDITIONS SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THIS DRAWING WAS PREPARED WITH LIMITED FIELD MEASUREMENTS AND MAY NOT FULLY REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND NOTIFY THE ARCHITECT IN WRITING OF ANY WORK DESCRIBED IN THE CONTRACT DOCUMENTS WHICH CANNOT BE PERFORMED DUE TO EXISTING CONDITIONS.
- EXISTING EXIT DOORS, ACCESS TO EXITS AND FIRE PROTECTION SHALL BE MAINTAINED DURING DEMOLITION. ALL FIRE PROTECTION, ACCESS AND EXITS SHALL BE OPERATIONAL AFTER COMPLETION OF DEMOLITION WORK.
- VERIFY WITH OWNER FINAL DISPOSITION OF ALL ELECTRICAL EQUIPMENT TO BE REMOVED. ITEMS TO BE SALVAGED FOR OWNER SHALL BE COLLECTED AND STORED AT OWNER DESIGNATED LOCATION WITHIN THE BUILDING FOR REMOVAL BY OWNER. ITEMS REFUSED BY THE OWNER SHALL BE REMOVED BY THE CONTRACTOR AND BE PROPERLY DISPOSED OF OFF-SITE WITHIN FIVE WORKING DAYS.
- PROTECT FROM DAMAGE ALL MATERIALS TO REMAIN. ANY WORK DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO MATCH CONDITION PRIOR TO CONSTRUCTION.
- DEMOLITION WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THOSE ITEMS NOTED. OTHER ITEMS OF A MINOR NATURE MAY EXIST WHICH ARE NOT SPECIFICALLY NOTED ON THE DRAWINGS ARE TO BE REMOVED AS REQUIRED, TO PROVIDE ACCESS AND ALLOW ALTERATION OR NEW WORK TO PROCEED.
- CONTRACTOR SHALL USE CAUTION WHEN PERFORMING DEMOLITION AT OR NEAR FIRE-RATED ASSEMBLIES SCHEDULED TO REMAIN SO AS NOT TO DISRUPT THE INTEGRITY OF THE FIRE RATING AND SHALL REPAIR ANY DAMAGE TO THOSE TO INSURE CONTINUOUS RATING AS REQUIRED.
- NOT ALL ELECTRICAL EQUIPMENT WHICH IS REQUIRED TO BE REMOVED IS SHOWN. CONTRACTOR SHALL REMOVE ALL SUCH EQUIPMENT WHICH WILL INTERFERE WITH NEW CONSTRUCTION. EQUIPMENT WHICH WILL NO LONGER BE USED (E.G. PIPES, CONDUITS AND DUCTS) SHALL BE REMOVED COMPLETELY BACK TO THE POINT OF SERVICE TO BE REUSED AND CAPPED OR PLUGGED AS INDICATED ON ELECTRICAL DRAWINGS.
- REFER TO ARCHITECTURAL DEMO DRAWINGS TO DETERMINE EXTENT OF DEMOLITION. DASHED LINES INDICATE WALLS TO BE REMOVED. WHERE DASHED LINES ARE SHOWN, EXCEPT WHERE OTHERWISE SHOWN OR NOTED ON DRAWINGS.
- ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIAL IN AREAS TO BE REMODELED/ALTERED SHALL BE REMOVED WHERE THEY INTERFERE WITH NEW CONSTRUCTION AND/OR INTERFERE WITH PROPOSED USAGE OF SPACE BY OWNER.
- THIS DEMOLITION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING:
 - REMOVE ALL LIGHTING FIXTURES, SWITCHES, AND ASSOCIATED WIRING BACK TO THE POINT OF SERVICE AS REQUIRED TO FIT SCHEME OF NEW WORK.
 - REMOVE ALL ELECTRICAL DEVICES, COVERPLATES, OUTLET BOXES, CONDUITS AND ASSOCIATED WIRING BACK TO THE POINT OF SERVICE TO FIT SCHEME OF NEW WORK.
 - REMOVE ALL PANELBOARDS, CONDUITS AND ASSOCIATED WIRING BACK TO POINT OF SERVICE TO FIT SCHEME OF NEW WORK.
 - REMOVE ALL ELECTRICAL ITEMS ASSOCIATED WITH MECHANICAL EQUIPMENT BEING DEMOLISHED. REMOVE ALL MOTOR STARTERS, DISCONNECT SWITCHES AND ASSOCIATED WIRING BACK TO POINT OF SERVICE TO FIT SCHEME OF NEW WORK.
 - REMOVE ALL FIRE ALARM DEVICES, CONDUITS AND ASSOCIATED WIRING BACK TO THE POINT OF SERVICE AS REQUIRED TO FIT SCHEME OF NEW WORK.
 - REMOVE ALL LOW VOLTAGE SYSTEMS, COVERPLATES, OUTLET BOXES, CONDUITS AND ASSOCIATED WIRING BACK TO THE POINT OF SERVICE TO FIT SCHEME OF NEW WORK. SECURITY CAMERAS, WIRELESS ACCESS POINTS, SOUND MASKING DEVICES TO BE SALVAGED AND TURNED OVER TO OWNER.
 - WHERE CONDUIT ASSOCIATED WITH AN ITEM TO BE REMOVED IS IN AN INACCESSIBLE AREA, SUCH AS ENCASED IN CONCRETE, THE INACCESSIBLE CONDUIT ONLY SHALL BE ABANDONED IN PLACE. ALL WIRING SHALL BE REMOVED AND CONDUIT SHALL BE CUT OFF FLUSH AND FINISHED OVER WITH A MATERIAL TO MATCH EXISTING.
 - IN REMODELED/ALTERED AREAS ANY FEEDERS, CONDUITS, BRANCH CIRCUITS, SIGNAL, TELEPHONE OR OTHER LOW VOLTAGE SYSTEMS, ETC. PASSING THROUGH THE REMODELED AREAS TO SERVE OR BE SERVED FROM EXISTING ADJACENT, REMOVE OR SURROUNDING AREA THAT ARE TO REMAIN SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE REROUTED IN ALL CASES WHERE THEY INTERFERE WITH ANY NEW WORK.
 - WHERE DEVICES ARE OMITTED FROM PRESENT BRANCH CIRCUITS, THE REMAINING DEVICES SHALL BE REWIRED AS REQUIRED.
 - ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS TO BE FAMILIARIZED WITH EXTENT OF REMODELING WORK AND MORE SPECIFICALLY NOTE WHERE NEW PARTITIONING IS BEING INSTALLED. WHERE EXISTING PARTITIONING IS BEING REMOVED AND WHERE CEILINGS ARE BEING REMOVED AND/OR REFINISHED.
 - PROVIDE FLOOR AND WALL PENETRATIONS AS REQUIRED FOR NEW MECHANICAL AND ELECTRICAL WORK.
 - PORTIONS OF THE BUILDING WILL BE OCCUPIED DURING THIS RENOVATION. THE GENERAL CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROVIDE FOR THE PROTECTION AND SAFETY OF THE BUILDINGS OCCUPANTS. COORDINATE WITH OWNER PROJECT MANAGER TO ENSURE THAT EXIT SIGNAGES MODIFIED AS REQUIRED TO ACCOMMODATE TEMPORARY EGRESS PATHWAYS THAT ANY FIRE ALARM OUTAGES ARE COORDINATED WITH OWNER TO PROVIDE FIRE WATCH AND THERE WILL BE NO EXPOSED ELECTRICAL WORK WITHIN OCCUPIED SPACES.
 - IF ANY SUSPECT HAZARDOUS MATERIALS ARE ENCOUNTERED BY CONTRACTOR, INCLUDING BUT NOT LIMITED TO MATERIALS CONTAINING ASBESTOS, LEAD PAINT, ETC. WORK IS TO BE STOPPED IN THE AREA WHERE SUCH MATERIALS WERE FOUND AND THE OWNER IMMEDIATELY NOTIFIED IN WRITING. THE REMOVAL OF HAZARDOUS MATERIALS WILL BE THE OWNER'S RESPONSIBILITY.
 - RELOCATE EXISTING SECURITY, FIRE ALARM AND TELEPHONE EQUIPMENT AS NECESSARY TO CONDUCT NORMAL OPERATIONS IN A REMOTE LOCATION DURING CONSTRUCTION OF THIS PHASE.

KEYPLAN

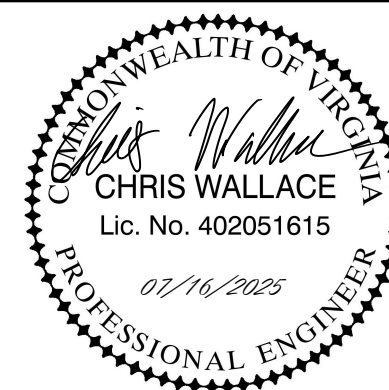


GENERAL NOTES

- ALL DEVICES SHOWN ON PLAN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. REFER TO NEW WORK POWER PLANS FOR EXISTING DEVICES BEING REPLACED.

PLAN NOTES

- EXISTING DEVICE. REMOVE DEVICE AND SAVE FOR RE-INSTALLATION IN NEW CEILING. REFER TO FIRE ALARM DRAWING FOR NEW LOCATIONS.
- EXISTING CABLE TRAY FOR LOW VOLTAGE DEVICES. DEMOLISH PORTION OF CABLE TRAY IN NEW WORK AREA. PORTION OF CABLE TRAY IN N.I.C. SCOPE WORK AREA EXISTING TO REMAIN.



PROJECT TITLE

WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA

BID SET

PROJECT CODE: #260-B4260-040

SFCS

Architecture
Engineering
Planning
Interiors

SFCS Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 • Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER	: BLB/CYW	
PROJECT ARCHITECT	: BLB	
PROJECT ENGINEER	: CIW	
DRAWN BY	: MAR	
CHECKED BY	:	
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

DEMOLITION PLANS

COMM. NO.
20301.13

DATE
JULY 16, 2025

DRAWING

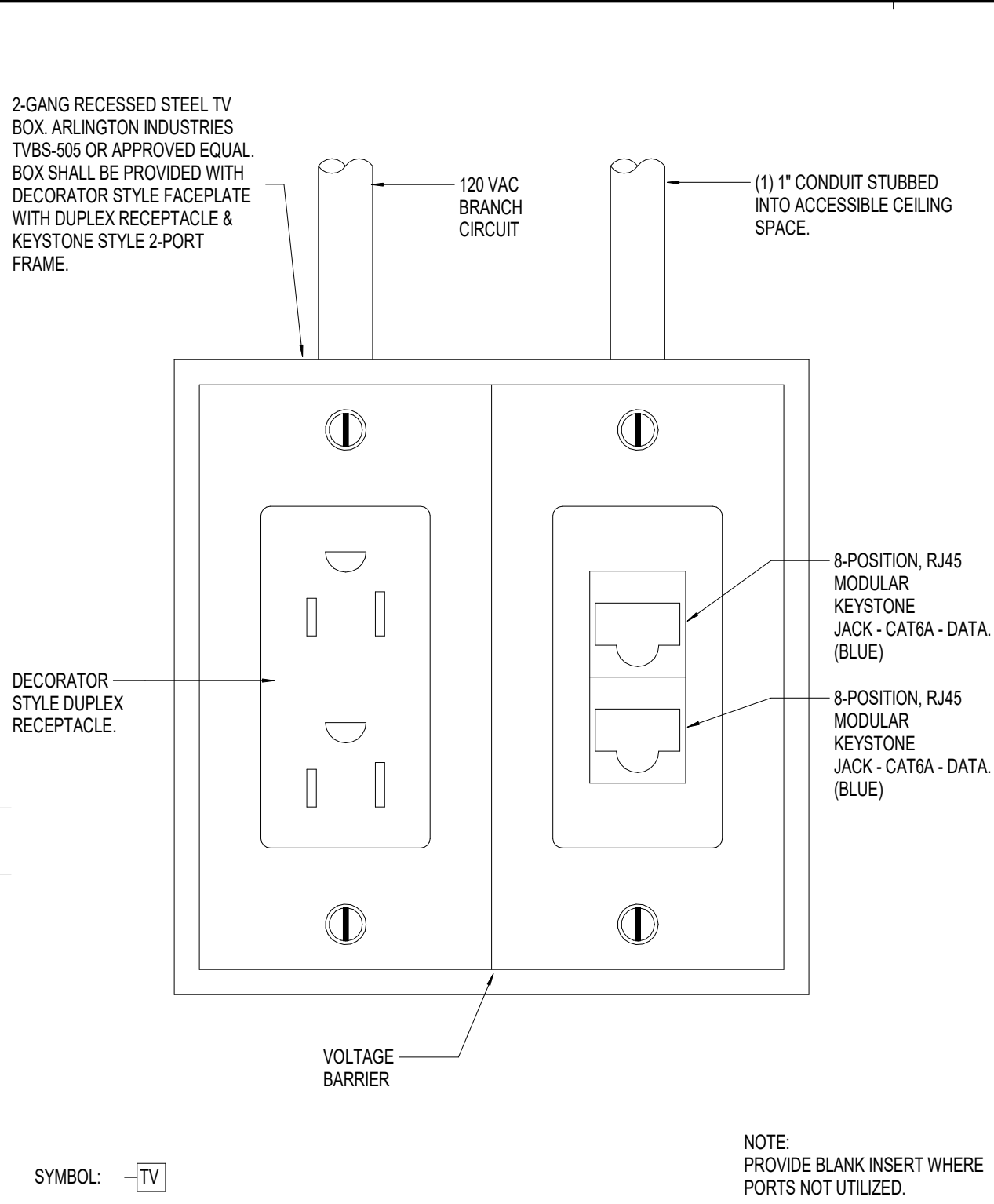
ED1.1

1" = 12" SCALE: 3" = 1'-0" 2" = 2'-0" 1" = 1'-0" SCALE: 1 1/2" = 1'-0" 1" = 1'-0" SCALE: 1" = 1'-0" 1" = 1'-0" SCALE: 3/4" = 1'-0" 1" = 1'-0" SCALE: 1/2" = 1'-0" 1" = 1'-0" SCALE: 1/8" = 1'-0" 1" = 1'-0" SCALE: 1/8" = 1'-0"

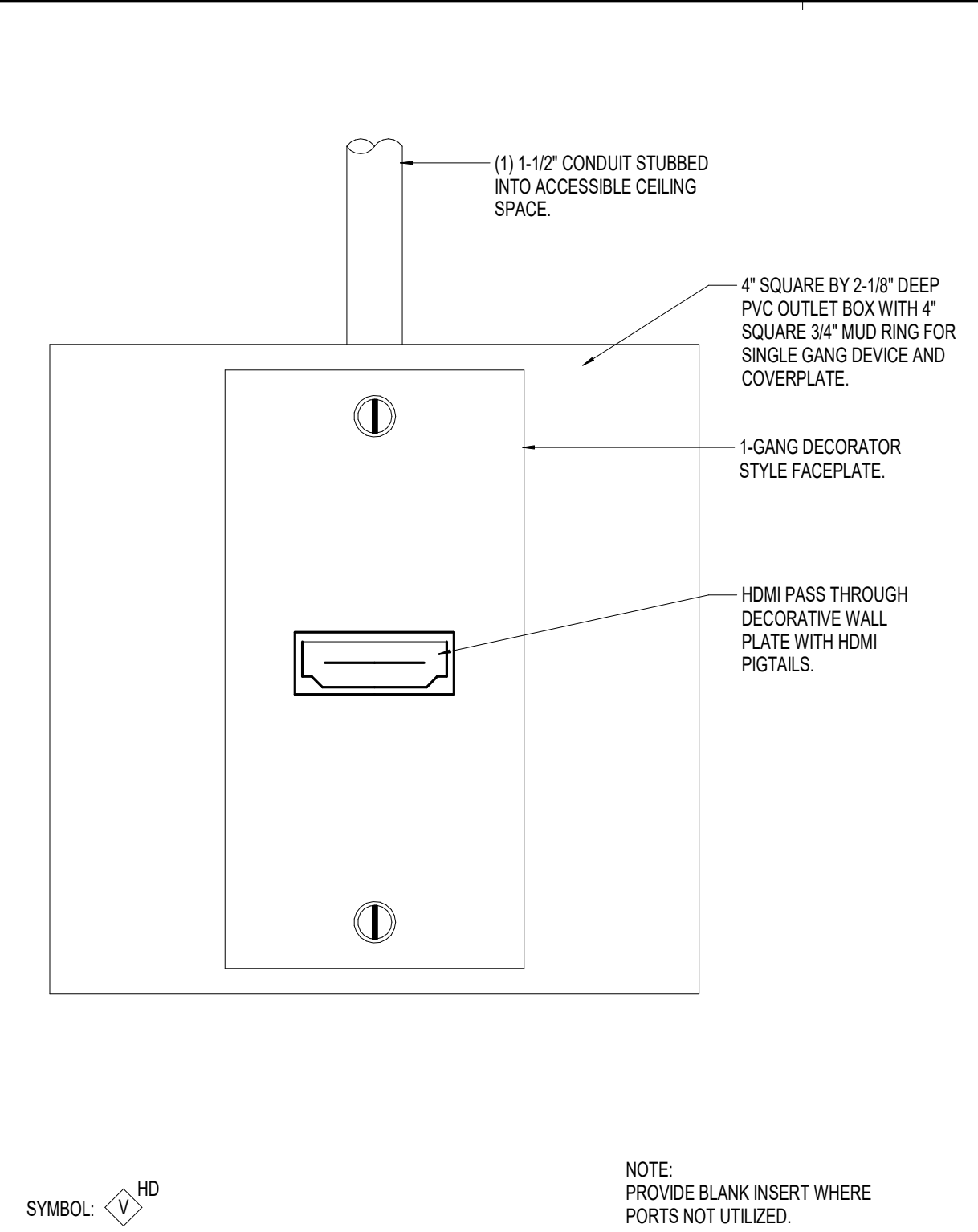
Branch Panel: A2 (EXISTING)															
Location: VESTIBULE 120					Volts: 120/208 Wye					A.I.C. Rating: 42,000					
Supply From: KED THRU LUGS					Phases: 3					Mains Type: MLO					
Mounting: Recessed					Wires: 4					Mains Rating: 200 A					
Enclosure: Type 1															
CKT	Circuit Description	Breaker Type	Trip	Pole s	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	Pole s	Trip	Breaker Type	Circuit Description	CKT
1	FCUS 7, 8, 9A, 9B, 9C, 9D (EXISTING)	20 A	1	1.27				0.72			1	20 A	RECEPT. RM 116, 117 (EXISTING)	2	
3	FCUS 1A, 1B, 6 (EXISTING)	20 A	1	1.18				1.26			1	20 A	RECEPT. RM 115 (EXISTING)	4	
5	FCUS 3, 4, 10 (EXISTING)	20 A	1		0.77				1.44		1	20 A	RECEPT. RM 117 (EXISTING)	6	
7	FCUS 1C, 2 (EXISTING)	20 A	1	0.67				0.72			1	20 A	RECEPT. RM 119 (EXISTING)	8	
9	POP MACHINE 111 (EXISTING)	20 A	1		0.00			0.50			1	20 A	PROJECTOR (EXISTING)	10	
11	POP MACHINE 111 (EXISTING)	20 A	1		0.00				1.00		1	20 A	COPPER - RM 101 (T)	12	
13	FCUS 5A, 5B (EXISTING)	20 A	1	0.67				1.00			1	20 A	LIGHTS RM 101 ROW 1 (EXISTING)	14	
15	Spare (EXISTING)	20 A	1	0.00				1.00			1	20 A	LIGHTS RM 101 ROW 2 (EXISTING)	16	
17	MSC-1ACHP-1 - RM (4)	20 A	2		0.78			1.00			1	20 A	LIGHTS RM 101 ROW 3 (EXISTING)	18	
19	--	--	--	0.78				1.00			1	20 A	LIGHTS RM 101 ROW 4 (EXISTING)	20	
21	RECEPT. CORRIDOR COL. (EXISTING)	20 A	1		0.54			1.00			1	20 A	LIGHTS RM 101 ROW 5 (EXISTING)	22	
23	RECEPT. CORRIDOR COL. (EXISTING)	20 A	1		0.54			1.00			1	20 A	LIGHTS RM 101 ROW 6 (EXISTING)	24	
25	RECEPT. CORRIDOR COL. (EXISTING)	20 A	1	0.54				1.00			1	20 A	COPPER - RM 101 (C)	26	
27	RECEPT. CORRIDOR COL. (EXISTING)	20 A	1	0.54				0.25			1	20 A	LIGHTS NEW ELEV. MACH. RM (EXISTING)	28	
29	REC - RM 103 BOOTHS (5)	20 A	1		1.08			1.50			1	20 A	WH - VEST (EXISTING)	30	
31	FCU UNITS (RM 101, 102B, 109, 110 & 114) (6)	15 A	2	0.94				1.50			1	20 A	WH - VEST (EXISTING)	32	
33	--	--	--		0.94			0.50			1	20 A	GF1 - ELEVATOR PIT (EXISTING)	34	
35	FCU UNITS (RM 103, 105, 115, 116 & 118) (6)	15 A	2		1.31			0.50			1	20 A	RECEPT. SUMP PUMP (EXISTING)	36	
37	--	--	--	1.31				0.50			1	20 A	GF1 - MACHINE ROOM (EXISTING)	38	
39	EDC-1 - RM 115 (7)	20 A	2		1.90			1.50			1	20 A	WH - MACHINE ROOM (EXISTING)	40	
41	--	--	--		1.90			--			1	--	Space (EXISTING)	42	
Total Load:					12.62 kVA			11.11 kVA							
Total Amps:					107.1 A			92.6 A							
Legend:															
Load Classification					Connected Load	Demand Factor	Estimated Demand	Panel Totals							
Receptacle					7580 VA	100.00%	7580 VA	Total Conn. Load: 36850 VA							
Spare					23910 VA	100.00%	23910 VA	Total Est. Demand: 36850 VA							
HVAC					1560 VA	100.00%	1560 VA	Total Conn.: 102 A							
Electric Heat					3800 VA	100.00%	3800 VA	Total Est. Demand: 102 A							
Notes:															

Branch Panel: A (EXISTING)															
Location: Supply From: MDP, ER Mounting: Recessed Enclosure: Type 1					Volts: 120/208 Wye Phases: 3 Wires: 4					A.I.C. Rating: 10,000 AIC Mains Type: MLO Mains Rating: 200 A					
CKT	Circuit Description	Breaker Type	Trip	Pole s	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	Pole s	Trip	Breaker Type	Circuit Description	CKT
1	LTG - RMS 101, 107-114 (1)		20 A	1	0.84			1.26			1	20 A		REC - RM 103 (STACKS) (1)	2
3	LTG - RM 103 (LEFT SIDE) (1)		20 A	1		0.52			1.20		1	20 A		COFFEE - RM 103 (STACKS) (1)	4
5	LTG - RM 103 (RIGHT SIDE) (1)		20 A	1			0.88			1.20	1	20 A		COFFEE - RM 103 (STACKS) (1)	6
7	LTG - RMS 120, CENTER WALKWAY (1)		20 A	1	0.57			1.44			1	20 A		REC - RM 101 (LRC) (1)	8
9	LTG - 104A-106, 115-118 (1)		20 A	1		0.63			0.54		1	20 A		REC - RM 101 (LRC WORK DESK) (1)	10
11	LCP-1BA & 1BB (1)		20 A	1			0.10			0.72	1	20 A		REC - RM 114 (1)	12
13	LIGHTING RM 102, 103 (EXISTING)		20 A	1	1.44			0.54			1	20 A		REC - RM 114 (1)	14
15	LIGHTING RM 104, 105, 106 (EXISTING)		20 A	1		1.44			0.90		1	20 A		REC - RMS 109, 110 (1)	16
17	LIGHTING RM 115, 116, 117 (EXISTING)		20 A	1			0.72			1.44	1	20 A		RECEPT. PROJECTOR (EXISTING)	18
19	LIGHTING CORRIDOR (EXISTING)		20 A	1	0.98			1.44			1	20 A		REC - RMS 107, 108 (1)	20
21	LIGHTING RM 119 (EXISTING)		20 A	1		0.60			0.18		1	20 A		ANATOMIZER - RM 107 (1)	22
23	LIGHTING RM 119 (EXISTING)		20 A	1			1.20			0.36	1	20 A		REC - RM 116 (1)	24
25	LIGHTING RM 109, CORR. 112 (EXISTING)		20 A	1	1.60			1.08			1	20 A		REC - RMS 109, 110, 111, 118 (1)	26
27	LIGHTING RM 110, 110A, 111 (EXISTING)		20 A	1		0.96			0.54		1	20 A		REC - RM 113 (1)	28
29	LIGHTING RM 113, 114 (EXISTING)		20 A	1			0.96			0.54	1	20 A		REC - RM 111 (1)	30
31	RECEPT. RM 101, S WALL (EXISTING)		20 A	1	0.72			1.08			1	20 A		RECEPT. RM 108 (EXISTING)	32
33	RECEPT. RM 101, S WALL (EXISTING)		20 A	1		0.72			1.26		1	20 A		RECEPT. RM 106 (EXISTING)	34
35	RECEPT. RM 102, 103 (EXISTING)		20 A	1			1.08			0.90	1	20 A		RECEPT. RM 105 (EXISTING)	36
37	RECEPT. RM 102, 103 (EXISTING)		20 A	1	1.26			1.05			1	20 A		TV - RMS 107, 109, 110, 112 (1)	38
39	RECEPT. RM 104 (EXISTING)		20 A	1		0.90			0.72		1	20 A		REC - RM 101 (LRC) (1)	40
41	RECEPT. RM 104 (EXISTING)		20 A	1			1.26			0.72	1	20 A		REC - RM 101 (LRC) (1)	42
Total Load:					27.91 kVA		22.22 kVA		25.21 kVA						
Total Amps:					236.4 A		185.2 A		213.9 A						
Legend:															
Load Classification			Connected Load		Demand Factor		Estimated Demand		Panel Totals						
Other			950 VA		100.00%		950 VA								
Receptacle			22010 VA		72.72%		16005 VA		Total Conn. Load: 75336 VA						
Spare			44425 VA		100.00%		44425 VA		Total Est. Demand: 69979 VA						
Lighting			2591 VA		125.00%		3239 VA		Total Conn.: 209 A						
HVAC			1560 VA		100.00%		1560 VA		Total Est. Demand: 194 A						
Electric Heat			3800 VA		100.00%		3800 VA								
Notes:															

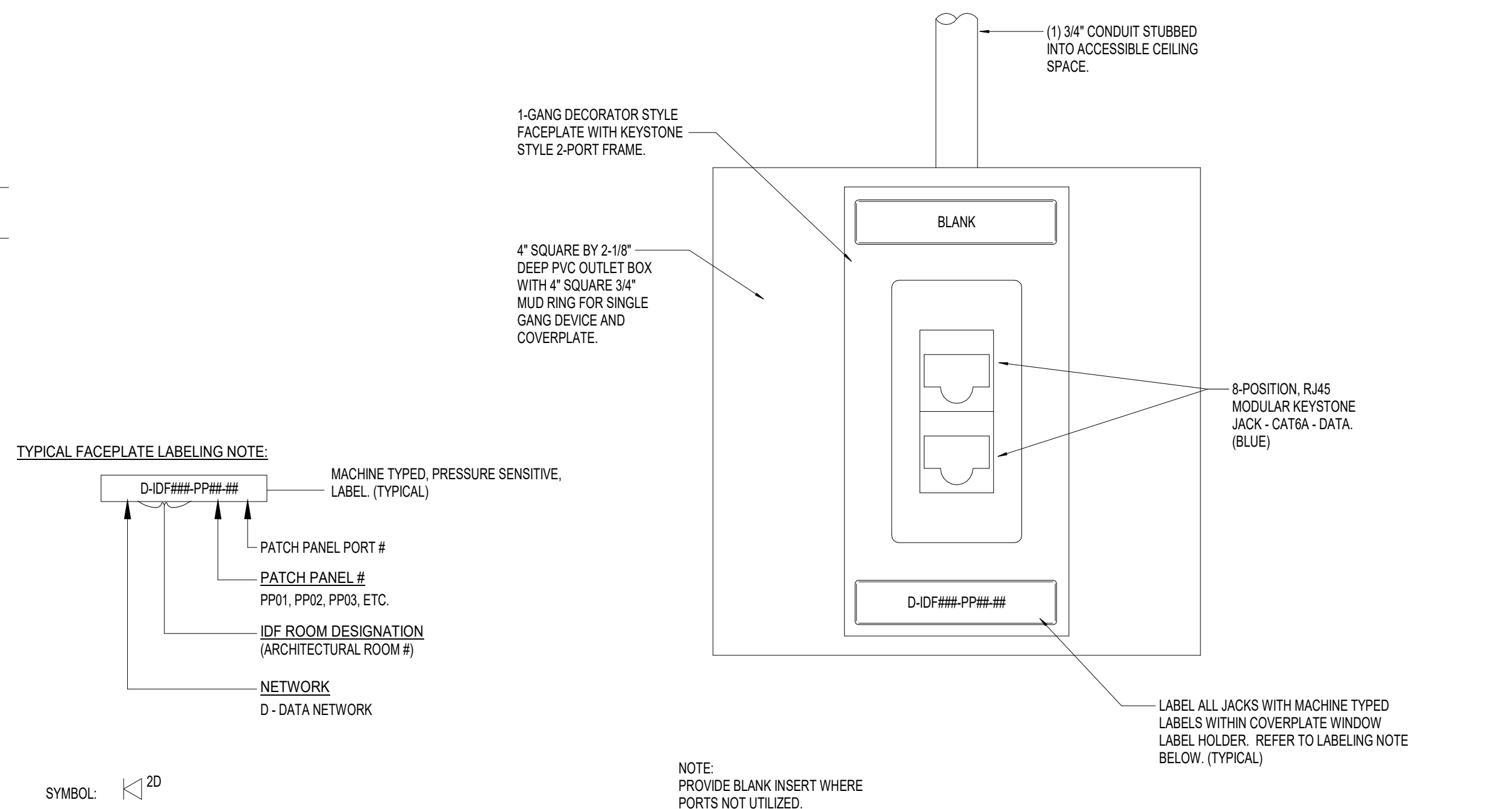
Branch Panel: X (EXISTING)																
Location: ATX-X					Volts: 120/208 Wye					A.I.C. Rating: 50,000						
Supply From: ATX-X					Phases: 3					Mains Type: MLO						
Mounting: Surface					Wires: 4					Mains Rating: 100 A						
Enclosure: Type 1																
CKT	Circuit Description	Breaker Type	Trip	Pole s	A (kVA)	B (kVA)	C (kVA)	A (kVA)	B (kVA)	C (kVA)	Pole s	Trip	Breaker Type	Circuit Description	CKT	
1	EXIT LTG. OUTSIDE LTG 1ST FL (EXISTING)	FUSE	20 A	1	0.80			0.80			1	20 A	FUSE	EXIT LTG. OUTSIDE LTG GRD FL (EXISTING)	2	
3	LTG. HALL, LOBBY, STAIR 1ST FL (EXISTING)	FUSE	20 A	1	0.80			0.80			1	20 A	FUSE	LTG. HALLWAY, GRD FL (EXISTING)	4	
5	LTG. NORTHWEST SIDE 1ST FL (EXISTING)	FUSE	20 A	1		0.80			0.80		1	20 A	FUSE	LTG. NORTHWEST SIDE GRD FL (EXISTING)	6	
7	LTG. SOUTHWEST SIDE 1ST FL (EXISTING)	FUSE	20 A	1	0.80			0.80			1	20 A	FUSE	LTG. SOUTHWEST SIDE GRD FL (EXISTING)	8	
9	EGRESS LTG	FUSE	20 A	1		0.38			0.80		1	20 A	FUSE	LTG. MECH RM GRD FL (EXISTING)	10	
11	EGRESS LTG	FUSE	20 A	1		0.32				0.00	1	20 A	FUSE	Spare (EXISTING)	12	
13	REC - RM 112 (2)	FUSE	20 A	1	0.36			0.00			1	20 A	FUSE	Spare (EXISTING)	14	
15	REC - RM 112 (2)	FUSE	20 A	1	0.36				1.00		1	20 A	FUSE	FIA PANEL (EXISTING)	16	
17	Spare (EXISTING)	FUSE	20 A	1			0.00			0.00	1	20 A	FUSE	Spare (EXISTING)	18	
19	Spare (EXISTING)	FUSE	20 A	1	0.00			1.00			1	20 A	FUSE	FIA REMOTE CONTROL (EXISTING)	20	
21	Spare (EXISTING)	FUSE	20 A	1	0.00				0.00		1	20 A	FUSE	Spare (EXISTING)	22	
23	Spare (EXISTING)	FUSE	20 A	1		0.00				0.00	1	20 A	FUSE	Spare (EXISTING)	24	
25	Spare (EXISTING)	FUSE	20 A	1	0.00				3.30		1	50 A	FUSE	PANEL T (EXISTING)	26	
27	Spare (EXISTING)	FUSE	20 A	1		0.00				3.30	1	50 A	FUSE	PANEL T (EXISTING)	28	
29	Spare (EXISTING)	FUSE	20 A	1			0.00				3.30	1	50 A	FUSE	PANEL T (EXISTING)	30
Total Load:					7.86 kVA		7.44 kVA		5.22 kVA							
Total Amps:					68.3 A		64.9 A		43.5 A							
Legend:																
Load Classification					Connected Load	Demand Factor	Estimated Demand			Panel Totals						
Other					190 VA	100.00%	190 VA			Total Conn. Load: 20524 VA						
Receptacle					720 VA	100.00%	720 VA			Total Est. Demand: 20653 VA						
Spare					19100 VA	100.00%	19100 VA			Total Conn.: 57 A						
Lighting					514 VA	125.00%	643 VA			Total Est. Demand: 57 A						
Notes:																
EXISTING BUSSMAN FUSE PANEL																



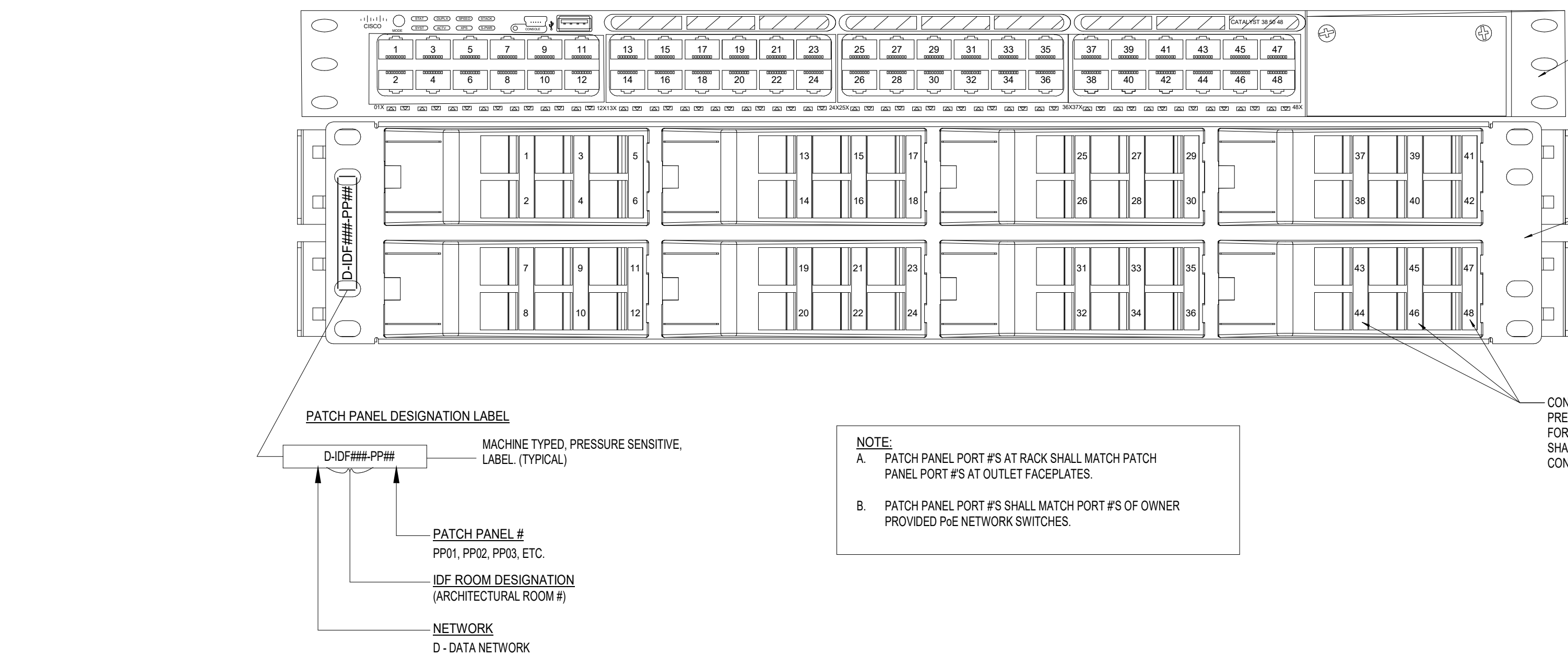
TYPICAL COMBINATION TV OUTLET DETAIL



TYPICAL HDMI OUTLET DETAIL



TYPICAL DATA OUTLET DETAIL



TYPICAL PATCH PANEL LABELING DETAIL

LOW VOLTAGE SYSTEMS WORKSCOPE NARRATIVE

GENERAL

ALL LOW VOLTAGE CABLING SHALL BE INSTALLED AS AN OPEN CABLE SYSTEM IN THE ACCESSIBLE CEILING SPACE. INSTALL CABLING IN J-HOOKS USED AS CABLING PATHWAY. LOW VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT IN INACCESSIBLE CEILING SPACES (e.g. HARD CEILING). PROVIDE OUTLET BOXES AND CONDUIT SUB UPS FOR ROUTING CABLES CONCEALED IN WALLS BETWEEN THE OUTLET LOCATIONS AND THE ACCESSIBLE CEILING SPACE. PROVIDE NEW SUPPORT STRUCTURE, SLEEVES AND FIRESTOPPING AS REQUIRED FOR ALL NEW CABLING INSTALLED IN THE ACCESSIBLE CEILING SPACE. ACCESSIBLE CEILING SPACE IS A RETURN AIR PLenum.

CONTRACTOR SHALL TEST ALL CABLES TO CONFIRM PROPER PERFORMANCE.

ALL COMMUNICATIONS OUTLETS, HORIZONTAL CABLES AND TERMINATION HARDWARE SHALL BE LABELED PER THE DESIGNED LABELING SCHEME.

DATA/VOICE - VOIP

EACH NEW WORKSTATION DATA OUTLET IN THE FACILITY WILL BE PROVIDED WITH TWO (2) RJ45 DATA JACK. THE WORK SCOPE SHALL INCLUDE THE OUTLET, A CAT 6A HORIZONTAL CABLE EXTENDED TO THE NEW IDF LOCATION AND TERMINATED ON A RACK MOUNTED PATCH PANEL. WORK INCLUDES TERMINATION OF CABLES, ALL TERMINATION HARDWARE AND CABLE TESTING. CONTRACTOR SHALL PROVIDE AND INSTALL NEW PATCH PANELS OF SUFFICIENT CAPACITY TO TERMINATE ALL NEW DATA NETWORK OUTLETS AND ALLOW FOR 25% SPARE PORTS. CONTRACTOR SHALL PROVIDE PUNCH-DOWN BLOCKS, DATA RACK, PATCH PANELS, CABLE MANAGEMENT, LABELING PRODUCTS, ETC. OWNER IS PROVIDING ALL PGE SWITCHES.

WIFI SYSTEM

AT ALL NEW WIRELESS ACCESS POINT (WAP) LOCATIONS INDICATED ON PLANS, CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) CAT 6A CABLE TERMINATED ON A FIELD MOUNTABLE RJ45 JACK WITH SERVICE LOOP. EXTEND HORIZONTAL CABLES TO THE NEW IDF LOCATION AND TERMINATE ON A RACK MOUNTED PATCH PANEL. WAP DEVICES SHALL BE PROVIDED BY OWNER OUTSIDE OF THIS CONTRACT.

ACCESS CONTROL SYSTEM

DESIGNATED DOORS SHALL BE PROVIDED WITH ROUGH-IN CONDUIT, AND CABLING PATHWAYS FOR ACCESS CONTROL SYSTEM. ACCESS CONTROL SYSTEM EQUIPMENT, DEVICES, CABLING, ETC. SHALL BE PROVIDED BY OWNERS VENDOR OUTSIDE OF THIS CONTRACT SCOPE. A COORDINATION MEETING BETWEEN CONTRACTOR, DOOR HARDWARE CONTRACTOR AND SECURITY VENDOR TO TAKE PLACE BEFORE STARTING ROUGH-IN CONSTRUCTION.

VIDEO SURVEILLANCE

PROVIDE AND INSTALL CABLING PATHWAYS BETWEEN NEW CAMERA LOCATIONS (J-HOOKS IN ACCESSIBLE CEILING AND CONDUITS TO INACCESSIBLE CEILING LOCATIONS) AND NEW TELECOMMUNICATIONS ROOM. VIDEO SURVEILLANCE SYSTEM EQUIPMENT, DEVICES, CABLING, ETC. SHALL BE PROVIDED BY OWNERS VENDOR OUTSIDE OF THIS CONTRACT SCOPE. A COORDINATION MEETING BETWEEN CONTRACTOR, AND SECURITY VENDOR TO TAKE PLACE BEFORE STARTING ROUGH-IN CONSTRUCTION.

AV SYSTEM

TVS / DISPLAYS WILL BE OWNER PROVIDED OWNER INSTALLED. CONTRACTOR TO INSTALL CABLING, PATHWAYS, CONDUIT, TERMINATIONS AND DEVICES AS INDICATED ON DRAWINGS.

SOUND MASKING SYSTEM

SOUND MASKING SYSTEM INSTALL IS A REPURPOSE AND EXPANSION OF SALVAGED SOUND MASKING SYSTEM FROM SMYTH HALL RENOVATION PROJECT. CONTRACTOR TO PROCURE EXISTING SYSTEM FROM OWNER. CONTRACTOR TO INSTALL NEW EQUIPMENT / DEVICES FOR EXPANSION AND A FULLY FUNCTIONAL SOUND MASKING SYSTEM. REFER TO SOUND MASKING DETAIL.

LOW VOLTAGE SYMBOL LEGEND

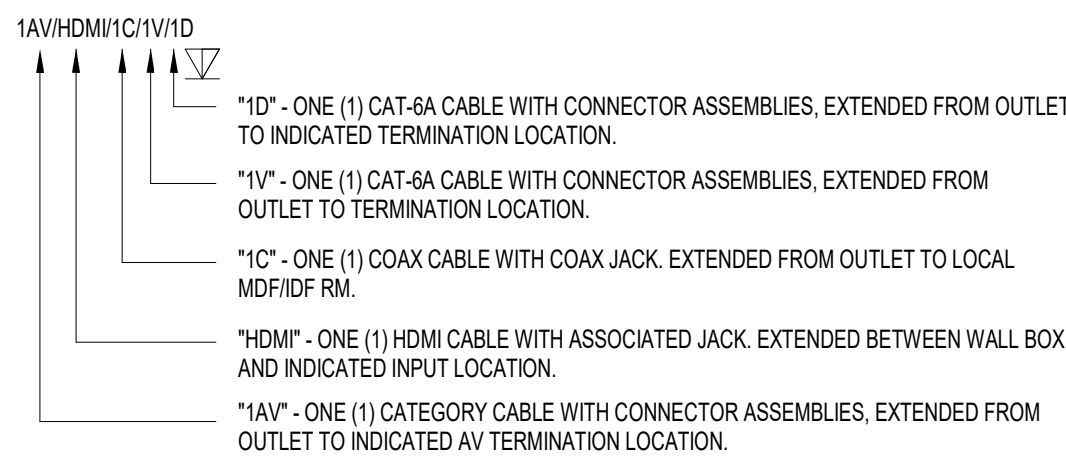
MTG. HGT. (NOTE 2)	SYMBOL (NOTE 3)	DESCRIPTION
3'-10"		WALL MOUNTED CONTROLLER FOR AV SYSTEM. PROVIDE SINGLEDOUBLE GANG OUTLET BOX PER MANUFACTURER REQUIREMENTS WITH 3/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. EXTEND CATEGORY CABLE TO AV CABINETRACK. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. ALL COLORFINISHES TO MATCH ADJACENT SURFACE. *R = REFERS TO COMMUNICATION ZONE. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION.
2'-0"		VIDEO INPUT/OUTPUT FOR AV SYSTEM. PROVIDE SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. ALL COLORFINISHES TO MATCH ADJACENT SURFACE. *HD = REFERS TO HDMI PASSTHROUGH WALL PLATE. PROVIDE SINGLE GANG OUTLET BOXES WITH 1-1/2" CONDUIT. INSTALL HDMI INPUT WALLPLATE BELOW DISPLAY AT 1'-6" AFF AND THE HDMI OUTPUT WALLPLATE BEHIND DISPLAY AT 5'-0" AFF. *HF = REFERS TO MOUNTING HEIGHT OF OUTLET, MEASURED FROM FINISHED FLOOR TO CENTERLINE OF OUTLET.
2'-0"		AUDIO MICROPHONE INPUT FOR AV SYSTEM. PROVIDE SINGLE GANGDOUBLE GANG OUTLET BOX PER MANUFACTURER REQUIREMENTS WITH 3/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. ALL COLORFINISHES TO MATCH ADJACENT SURFACE. *BT = REFERS TO BLUETOOTH INPUT DEVICE. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. MOUNT DEVICE TO CENTER 3'-10" AFF. *ID = REFERS TO CATEGORY CABLE EXTENDED TO AV CABINETRACK. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. *HF = REFERS TO MOUNTING HEIGHT OF OUTLET, MEASURED FROM FINISHED FLOOR TO CENTERLINE OF OUTLET.
3'-10"		BLUETOOTH INPUT FOR AV SYSTEM. PROVIDE SINGLE GANG OUTLET BOX PER MANUFACTURER REQUIREMENTS WITH 3/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. ALL COLORFINISHES TO MATCH ADJACENT SURFACE. *ID = REFERS TO CATEGORY CABLE EXTENDED TO AV CABINETRACK. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. *HF = REFERS TO MOUNTING HEIGHT OF OUTLET, MEASURED FROM FINISHED FLOOR TO CENTERLINE OF OUTLET.
		TOUCH SCREEN AV SYSTEM CONTROLLER. FLUSH MOUNT AT 48" AFF TO TOP OF SCREEN. PROVIDE BACK BOX PER MANUFACTURER REQUIREMENTS WITH 3/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. EXTEND CATEGORY CABLE TO AV CABINETRACK. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. ALL COLORFINISHES TO BE CONFIRMED WITH ARCHITECT BEFORE PRODUCT SUBMITTAL.
CEILING		CEILING MOUNTED MICROPHONE. REFER TO DETAILS SHEET FOR MORE INFORMATION. MICROPHONE COLORFINISHES TO MATCH ADJACENT SURFACE. *A = WIRELESS MICROPHONE ANTENNA. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. *ID = FIELD MOUNTABLE CAT6A RJ45 PLUG SHALL BE UTILIZED FOR CONNECTION TO DEVICE. EXTEND ONE (1) CAT 6A HORIZONTAL CABLE TO AV RACK LOCATION ON RESPECTIVE FLOOR.
3'-10"		AUDIO INPUT FOR AV SYSTEM. PROVIDE SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. COLORFINISHES TO MATCH ADJACENT SURFACE. *ID = REFERS TO CATEGORY CABLE EXTENDED TO AV CABINETRACK. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. *HF = REFERS TO MOUNTING HEIGHT OF OUTLET, MEASURED FROM FINISHED FLOOR TO CENTERLINE OF OUTLET.

LV WORKSCOPE GENERAL NOTES

- OUTER JACKETS OF CATEGORY HORIZONTAL CABLES SHALL BE COLOR CODED FOR RESPECTIVE SYSTEMS:
DATA: BLUE
VOICE: WHITE
FAX/ELEVATOR: YELLOW
VIDEO SURVEILLANCE: GREEN
WAP: PURPLE
AV: ORANGE
- THE LOW VOLTAGE WORK SCOPE CONTRACTORS SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL OUTLET BOXES, RACEWAY, PATHWAYS AND SUPPORTS AS SPECIFICALLY INDICATED ON THESE DRAWINGS AND AS REQUIRED FOR COMPLETE INSTALLATION OF THE SYSTEMS.
- CONTRACTOR SHALL PROPERLY SUPPORT LOW VOLTAGE CABLES BETWEEN OUTLET BOXES AND CABLE TRAY UTILIZING J-HOOK SUPPORTS AT A MAXIMUM OF 9FT. ON CENTER.
- CONTRACTOR SHALL UTILIZE PLENUM RATED VELLORO STRAPS FOR CABLE BUNDLING. NO ZIP TIES ALLOWED. NO MORE THAN 24 CABLES SHALL BE BUNDLED TOGETHER. CABLING FOR DIFFERENT SYSTEMS SHALL BE BUNDLED SEPARATELY.
- PARTS OF THE EXISTING BUILDING WILL BE OCCUPIED AND THE RENOVATION WORK MUST BE COMPLETED IN PHASES. COORDINATE WITH THE GENERAL CONTRACTOR FOR PROPER SEQUENCE OF THE WORK.
- PROTECT ANY EXISTING CABLES AND COMPONENTS THAT MAY STILL BE IN USE DURING CONSTRUCTION. IF CABLING OR COMPONENTS ARE IN CONFLICT WITH NEW CONSTRUCTION OR IN NEED OF PROPER SUPPORT, NOTIFY GENERAL CONTRACTOR.
- PROVIDE WALL TELEPHONE OUTLET 4'-0" AFF FOR THE ELEV CAB TELEPHONE. EXTEND (1) 3/4" EMPTY CONDUIT FROM THE OUTLET BOX TO ACCESSIBLE CEILING SPACE AND PROVIDE BUSHINGS AT EACH END. LOCATE OUTLET BOX AS DIRECTED BY THE ELEV EQUIP INSTALLER.

NOTES (LOW VOLTAGE SYMBOL LEGEND):

- THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER, WHEREVER THIS SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE FURNISHED AND INSTALLED.
- UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. WHERE THE MOUNTING HEIGHT INDICATED ON PLAN IS DIFFERENT FROM THE LEGEND, THE PLAN TAKES PRECEDENT.
- INSTALL RECEPTACLE AND VOICEDATA OUTLET BOXES 6" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL, UNLESS INDICATED TO BE INSTALLED IN A MULTIGANG BOX WITH VOLTAGE BARRIER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE TELECOMMUNICATION CABLES TO ALL LOW VOLTAGE DEVICES INDICATED ON PLANS ACCORDING TO THE NOMENCLATURE BELOW. ALL DATA OUTLETS SHALL RECEIVE ONE (1) CAT6 DATA CABLE AND ONE (1) CAT6 VOICE CABLE UNLESS NOTED OTHERWISE ON PLAN DRAWINGS.



LOW VOLTAGE SYMBOL LEGEND

MTG. HGT. (NOTE 2)	SYMBOL (NOTE 3)	DESCRIPTION
1'-6"		TELEPHONE OUTLET. WALL. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH ONE (1) CAT 6A RJ45 JACK. EXTEND CAT 6A VOICE CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. *V = WALL TYPE TELEPHONE OUTLET MOUNTED 52" AFF AND PROVIDED WITH RECESSED STAINLESS STEEL WALL PHONE MOUNT FACEPLATE. *TEL = ELEVATOR TWO WAY COMMUNICATIONS. PROVIDE WITH ONE (1) CAT6 RJ11 JACK AND ONE (1) CAT6A RJ45 JACK. EXTEND (1) CAT6 CABLE AND (1) CAT6A CABLE TO NEAREST TELECOMMUNICATION ROOM. COORDINATE WITH ELEVATOR CONTRACTOR FOR OUTLET LOCATION. ELEVATOR CONTRACTOR TO PROVIDE ALL LOW VOLTAGE CABLES REQUIRED IN ELEVATOR TRAVELING CABLE. *V = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.
1'-6"		DATA OUTLET. WALL. TWO GANG OUTLET BOX WITH 1 1/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH TWO (2) CAT 6A RJ45 JACK. EXTEND CAT 6A DATA CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. *ID = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (2) DATA CABLE (2D) TO OUTLET LOCATION. FOR ABOVE COUNTER DEVICES - MOUNT AT 4" AFF TO TOP OF OUTLET BOX AND INSTALL 1" CAST ALUMINUM BOX EXTENSION ON FLUSH MOUNTED OUTLET BOX.
1'-6"		COMBINATION VOICE/ DATA OUTLET. WALL. TWO-GANG OUTLET BOX WITH SINGLE GANG MUD RING AND 1-1/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH TWO (2) CAT 6A RJ45 DATA JACK AND ONE (1) CAT 6 RJ45 VOICE JACK. EXTEND CABLES TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. *R = EXTEND DATA AND VOICE CABLES TO DWELLING UNIT COMM. ENCLOSURE AND TERMINATE. *TEL = ELEVATOR TWO WAY COMMUNICATIONS. PROVIDE WITH ONE (1) CAT6 RJ11 JACK AND ONE (1) CAT6A RJ45 JACK. EXTEND (1) CAT6 CABLE AND (1) CAT6A CABLE TO NEAREST TELECOMMUNICATION ROOM. COORDINATE WITH ELEVATOR CONTRACTOR FOR OUTLET LOCATION. ELEVATOR CONTRACTOR TO PROVIDE ALL LOW VOLTAGE CABLES REQUIRED IN ELEVATOR TRAVELING CABLE. *V/HVO = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (2) DATA (2D) AND (1) VOICE (1V) CABLES TO OUTLET LOCATION.
3'-10"		AREA OF RESCUE ASSISTANCE MASTER STATION. SUBSCRIPT INDICATES SYSTEM. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT SUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH ONE (1) CAT 6 RJ11 JACK. EXTEND CAT 6 VOICE CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. *V = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.
FLOOR		PHONE OUTLET. FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. *V = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.
FLOOR		DATA OUTLET. FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. *ID = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (2) DATA CABLE (2D) TO OUTLET LOCATION.
FLOOR		COMBINATION PHONE & DATA OUTLET. FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. *V/HV = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA (1D) AND (1) VOICE (1V) CABLES TO OUTLET LOCATION.
5'-0"		WALL MOUNTED COMBINATION RECEPTACLE AND TV OUTLET WITH VOLTAGE BARRIER. PROVIDE WITH (1) 120V DUPLEX RECEPTACLE, (1) TYPE F COAX CONNECTOR WITH (1) RG6 COAX CABLE AND ONE (1) RJ45 JACK WITH CAT 6A CABLE EXTENDED TO NEAREST IDF. USE RG11 COAX CABLE FOR RUNS GREATER THAN 200FT. *R = EXTEND RG6 COAX CATV CABLE TO DWELLING UNIT COMM. ENCLOSURE AND TERMINATE. *HF = REFERS TO DIFFERENT ABOVE FLOOR MOUNTING HEIGHT. CONTRACTOR SHALL VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT TO AVOID CONFLICT WITH WALL TV MOUNTS AND/OR CASEWORK.
CEILING		LAN SYSTEM, WIRELESS ACCESS POINT (WAP). CAT6A RJ45 PLENUM RATED CONNECTOR ASSEMBLY (880OUT) SHALL BE UTILIZED FOR CONNECTION TO DEVICE. EXTEND ONE (1) CAT 6A HORIZONTAL CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. WAP DEVICE SHALL BE PROVIDED BY OWNER AND CONNECTED/INSTALLED BY CONTRACTOR. *ID = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION.
CEILING		FIXED SECURITY CAMERA - INTERIOR MOUNT ROUGH-IN ONLY. INSTALL FLUSH MOUNT SINGLE GANG OUTLET BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT MOUNTING REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. CAMERA COLORFINISHES TO MATCH ADJACENT SURFACE. *EXT = INDICATES EXTERIOR MOUNTED CAMERA.
WALL		FIXED SECURITY CAMERA - INTERIOR MOUNT. INSTALL FLUSH MOUNT SINGLE GANG OUTLET BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT MOUNTING REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. CAMERA COLORFINISHES TO MATCH ADJACENT SURFACE. *ID = INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) CAT6A DATA CABLE (1D) TO OUTLET LOCATION. EXTEND CABLE TO NEAREST TELECOMMUNICATION ROOM. *180 = INDICATES 180 DEGREE CAMERA TO BE WALL MOUNTED. *EXT = INDICATES EXTERIOR MOUNTED CAMERA. *AV = FIXED AUDIO VISUAL SYSTEM CAMERA. REFER TO DETAILS FOR MORE INFORMATION.
3'-10"		INTERCOM SYSTEM CALL-IN STATION.
		INTERCOM SYSTEM MASTER STATION.
		DESIGNATED DOOR TO BE PROVIDED WITH ACCESS CONTROL. PROVIDE CARD READER ON UNSECURED SIDE OF DOOR. DOOR POSITION SENSOR AND INTERFACE TO ELECTRIC DOOR HARDWARE. PROVIDE PIR MOTION REQUEST TO EXIT (RTE) SENSOR IF NOT INCLUDED IN DOOR HARDWARE.
4'-0"		ACCESS CONTROL SYSTEM CARD READER. INSTALL WITH FLUSH MOUNT SINGLE GANG OUTLET BOX AND 1/2" C TO ACCESSIBLE CEILING SPACE. *M = INDICATES MULLION MOUNTED CARD READER.
6'-0"		DOOR "A" CONTACT. INSTALL 1/2" C IN DOOR FRAME TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT REQUIREMENTS WITH OWNERS ACCESS CONTROL VENDOR.
6'-0"		MAGNETIC DOOR HOLDER, WALL. "F" = FLUSH MOUNTED.
		MAGNETIC DOOR HOLDER, FLOOR.
		DELAYED EGRESS ELEMENT CONTROL SYSTEM DOOR LOCATION. REFER TO DOOR DETAIL FOR ADDITIONAL INFORMATION.
6'-8"		AUDIO VISUAL NOTIFIER. WALL. PROVIDE A 2-GANG 4" SQUARE JUNCTION BOX. INSTALL LV TRANSFORMER IN ONE SIDE OF THE JUNCTION BOX. PROVIDE A NONCONDUCTIVE BARRIER IN THE CENTER OF THE JUNCTION BOX BETWEEN THE CONTROL WIRING AND THE TRANSFORMER. PROVIDE POWER (120 VOLT).
4'-0"		PUSHBUTTON, WALL.
CEILING		CEILING MOUNTED SPEAKER (EMITTER) FOR SOUND MASKING SYSTEM. PROVIDE PLENUM RATED CEILING JUNCTION ENCLOSURE FOR TERMINAL CLOSINGS. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION. SPEAKER COLORFINISHES TO MATCH ADJACENT SURFACE. *V = REFERS TO SPEAKER WIRING/COMMUNICATION ZONE. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION.

NOTES (LOW VOLTAGE SYMBOL LEGEND):

- THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER, WHEREVER THIS SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE FURNISHED AND INSTALLED.
- UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. WHERE THE MOUNTING HEIGHT INDICATED ON PLAN IS DIFFERENT FROM THE LEGEND, THE PLAN TAKES PRECEDENT.
- INSTALL RECEPTACLE AND VOICEDATA OUTLET BOXES 6" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL, UNLESS INDICATED TO BE INSTALLED IN A MULTIGANG BOX WITH VOLTAGE BARRIER.

SHEET LIST - LOW VOLTAGE

SHEET NUMBER	SHEET NAME
LV0.0	LOW VOLTAGE SYMBOL LEGEND
LV0.1	LOW VOLTAGE DETAILS
LV1.1	GROUND FLOOR PLAN - LOW VOLTAGE

GENERAL NOTES



PROJECT TITLE

WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA

BID SET

PROJECT CODE: #260-B4260-040

SFCs Architecture
Engineering
Planning
Interiors

SFCs Inc. • 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 • Fax 540.343.6925
www.sfcsc.com

PROJECT DESIGNER : BLB/CW
PROJECT ARCHITECT : BLB
PROJECT ENGINEER : CW
DRAWN BY : MAR
CHECKED BY : JSK
APPROVED BY :
NO. REVISION DESCRIPTION DATE

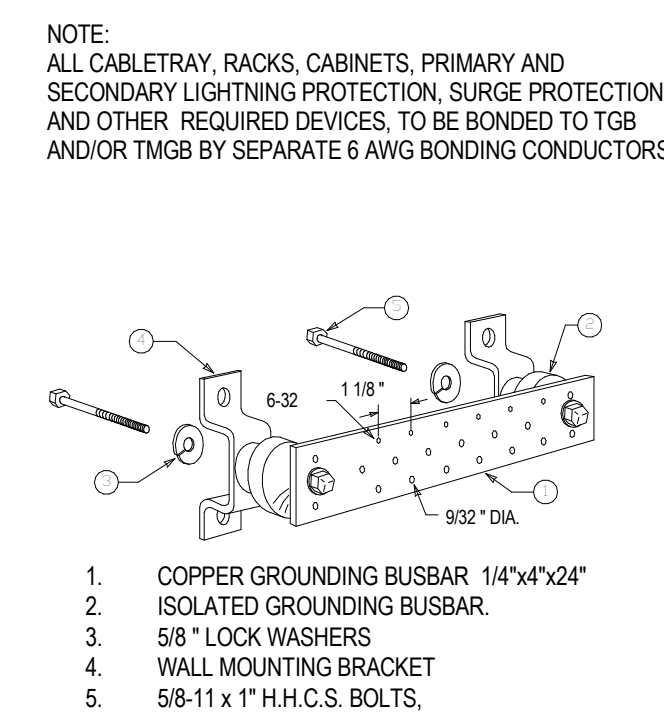
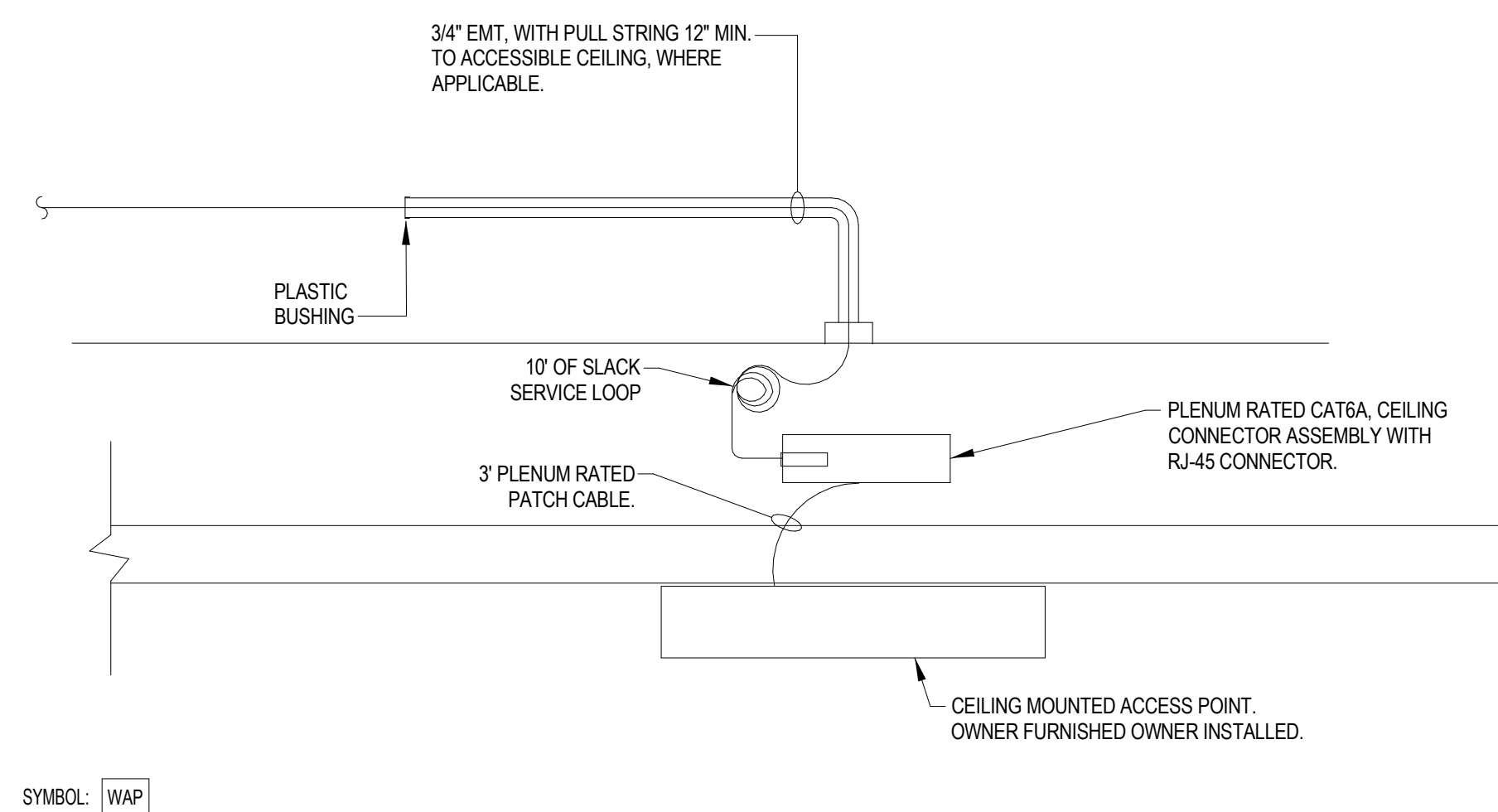
DRAWING TITLE

LOW VOLTAGE
SYMBOL LEGEND

COMM. NO. 20301.13 DATE JULY 16, 2025

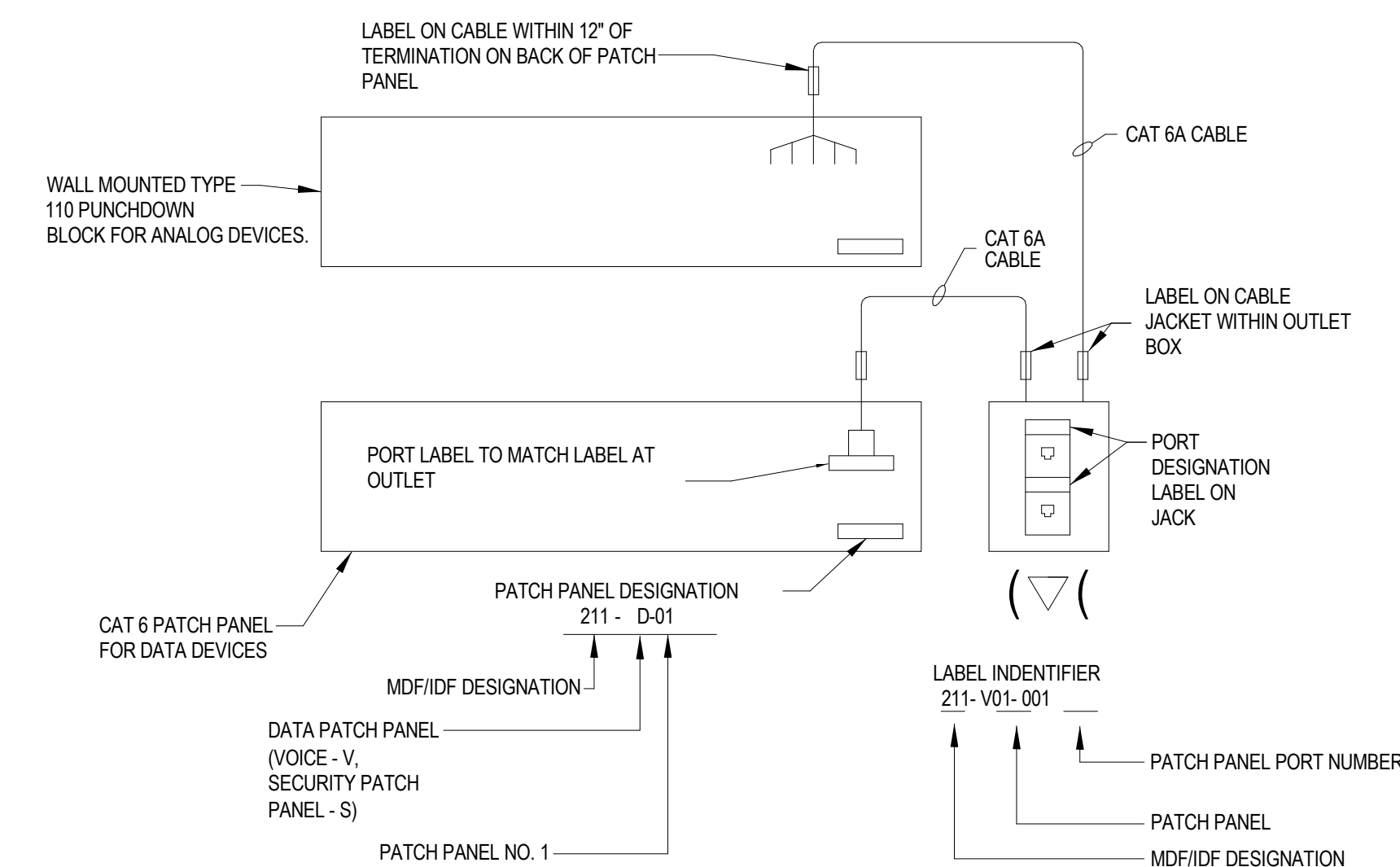
DRAWING

LV0.0



- A. TGB* STANDS FOR TELECOMMUNICATIONS GROUNDING BUS BAR. IT SHALL BE BONDED TO NEAREST ELECTRIC PANEL GROUND BAR.
- B. GROUND CONDUCTOR SIZES ARE BASED ON UTILIZING COPPER.
- C. GROUNDING CONDUCTORS TO BE INSTALLED IN RACE, WEATH. WITH GROUND BUS BAR AT EACH END. INSTALLED SLEEVES AS REQUIRED AT ALL WALL PENETRATIONS FOR ROUTING OF CONDUCTORS THROUGH WALLS.
- D. TELECOMMUNICATION GROUND BARS TGB TO BE BONDED TO NEAREST BUILDING STEEL UTILIZING #6 GROUNDING CONDUCTOR IN 12"X2".
- E. BONDING CONDUCTOR CONNECTIONS MADE TO TELECOMMUNICATION GROUND BARS TO BE MADE USING PERMANENT HIGH TENSILE LOW COMPRESSION LUGS.
- F. ALL GROUND BARS GROUND BUS BARS TO BE NRTL LISTED 14"X4"X2" COPPER. ALL TGB GROUND BUS BARS TO BE NRTL LISTED 14"X4"X1/2" COPPER. THE TMBG'S SHALL BE CLEANED AND AN ANTI-OXIDANT APPLIED PRIOR TO FASTENING ANY CONDUCTORS TO THE BAR.
- G. COMMUNICATIONS CABLE TRAY SHALL BE BONDED TO LOCAL TGB UTILIZING #6 COPPER GROUNDING CONDUCTOR INSTALLED THE FULL LENGTH OF TRAY AND ATTACHED TO TRAY USING MECHANICAL TYPE LUGS.
- H. IDPMF (IDEMPOTENT) COMMUNICATION RACKS ARE TO BE BONDED TO THE LOCAL TGB UTILIZING #6 COPPER GROUNDING CONDUCTOR IN 12"X2" WITH GROUNDING BUS BAR AT BOTH ENDS.

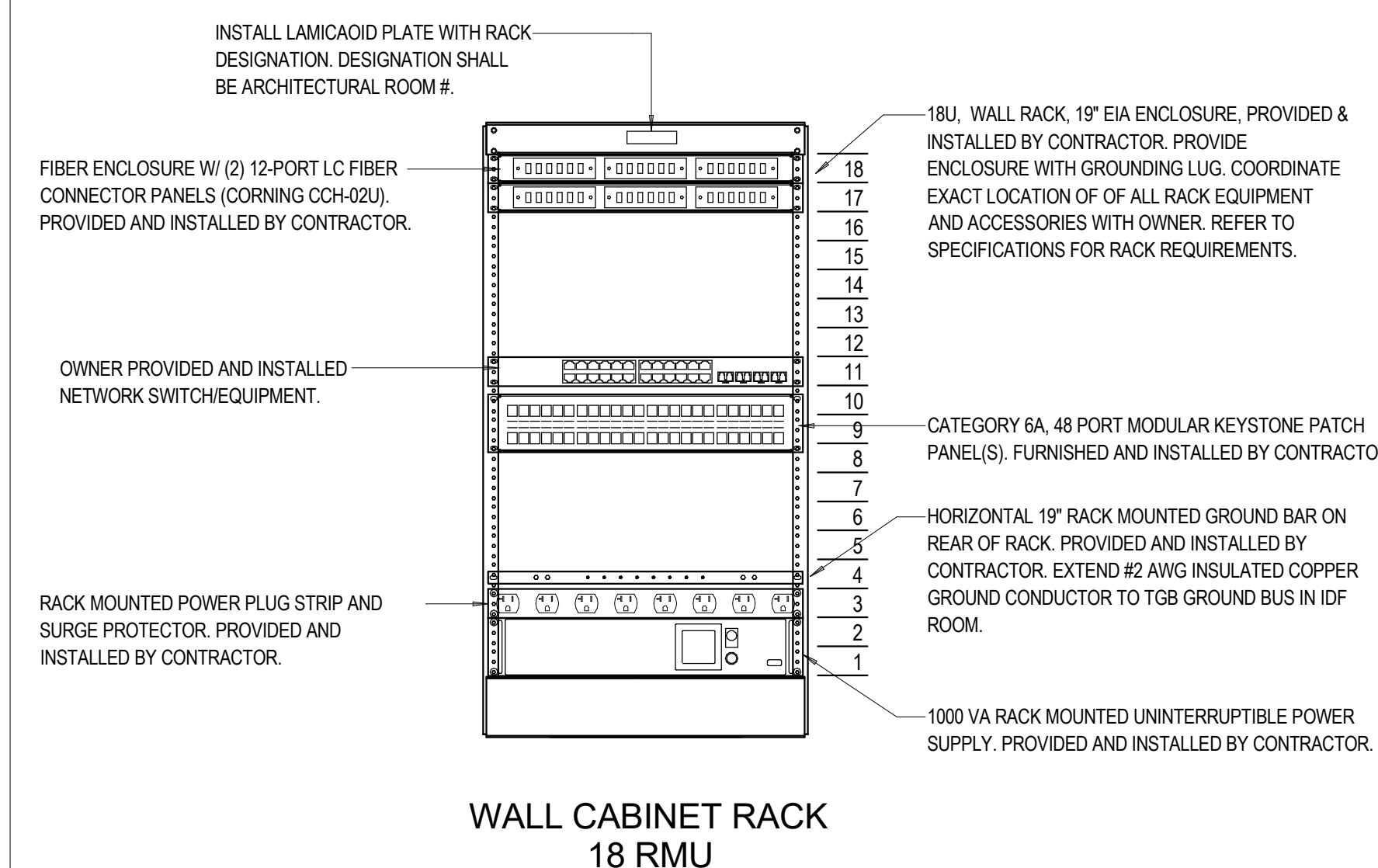
TELECOM. GROUNDING BUS BAR DETAIL



GENERAL ELEVATION NOTES

GENERAL ELEVATION NOTES:

- A. RACKS AND RACK MOUNTED EQUIPMENT PROVIDED & INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- B. ALL PATCH CABLES WITHIN DATA SYSTEM RACK & CABLEING TO DATA DEVICES SHALL BE PROVIDED BY CONTRACTOR.
- C. PROVIDE INSTALLED BY CONTRACTOR.
- D. PROVIDE PATCH CABLES FOR PATCH PANEL EQUIPMENT FOR 100% OF THE TOTAL NUMBER OF JACKS/CABLES INDICATED ON PLANS, PLUS APPROX. 10% SPARE.
- E. PATCH CABLE LENGTHS FOR EACH RACK SHALL BE 3-FOOT.
- F. CONTRACTOR SHALL PROVIDE VERTICAL & HORIZONTAL WIRE MANAGEMENT ON BOTH SIDES OF RACK.



PROJECT TITLE
**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

S F C S

SFCS Inc. ■ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ■ Fax 540.343.6925
www.sfcs.com

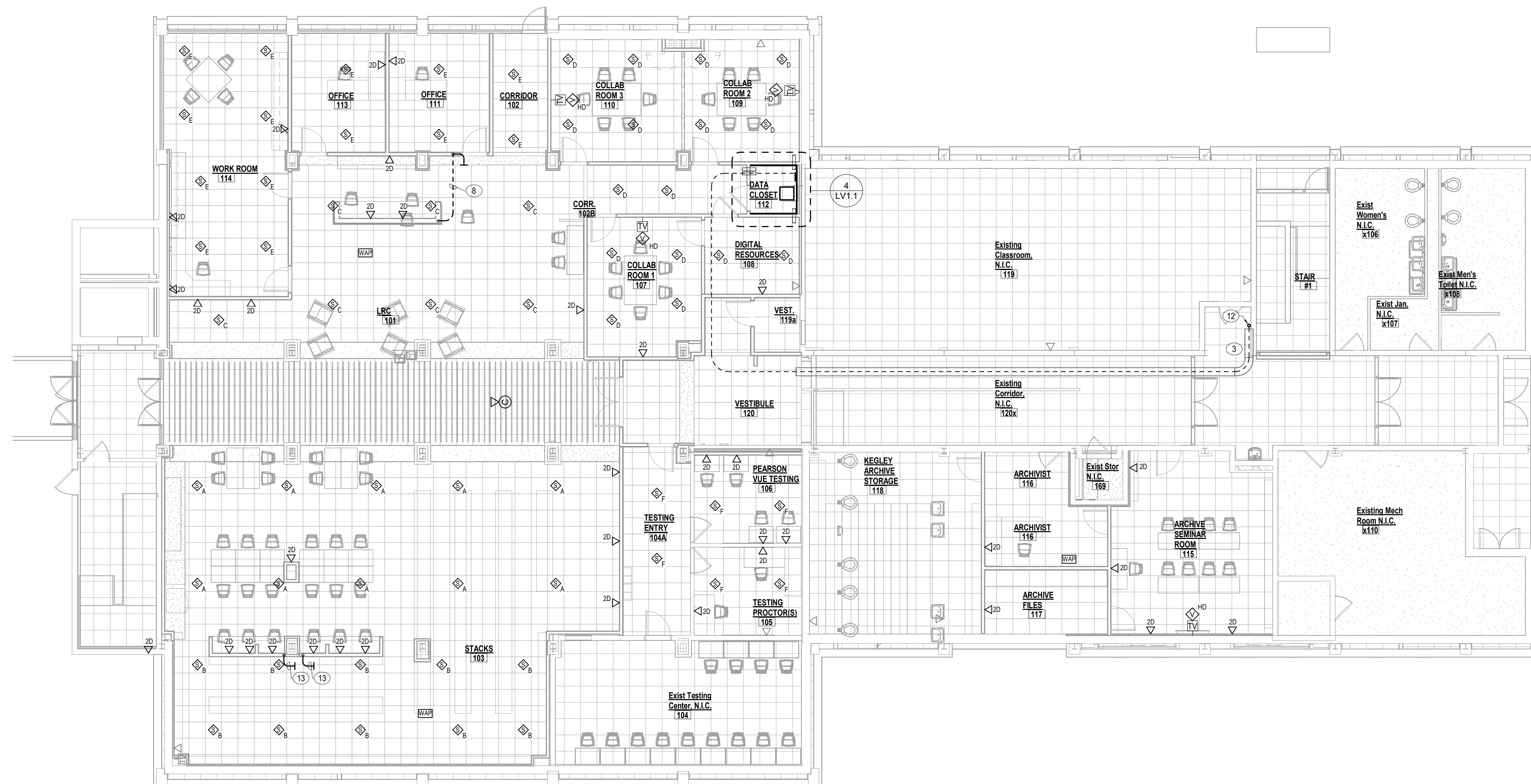
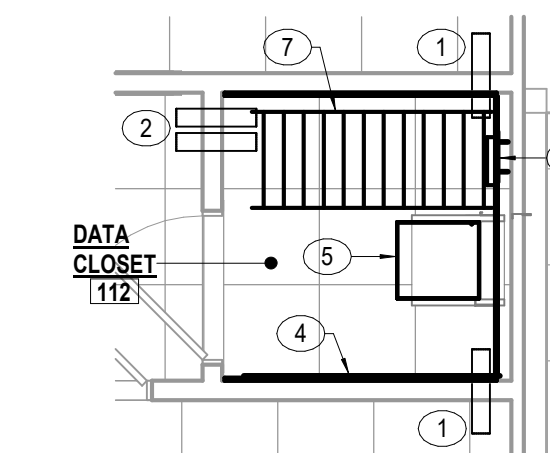
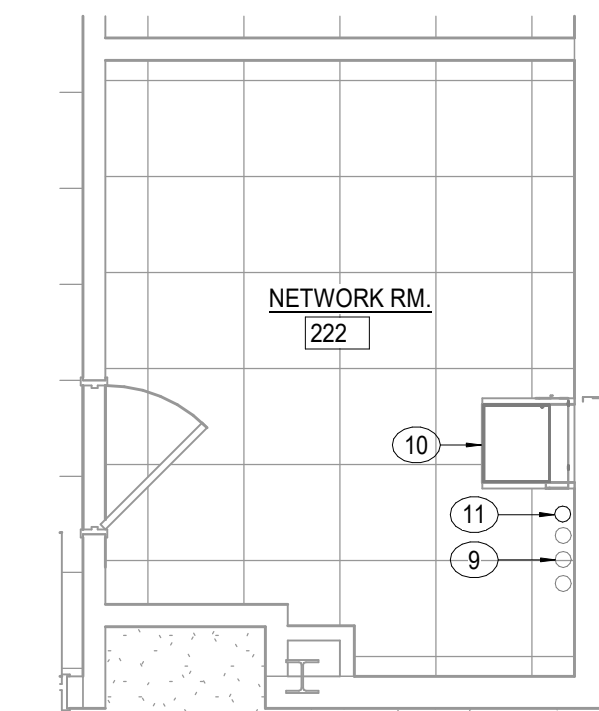
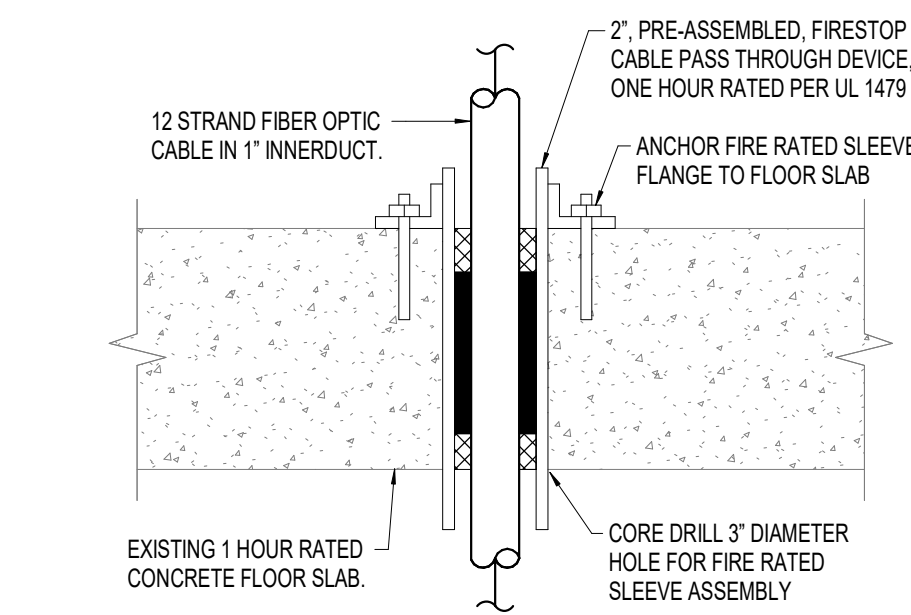
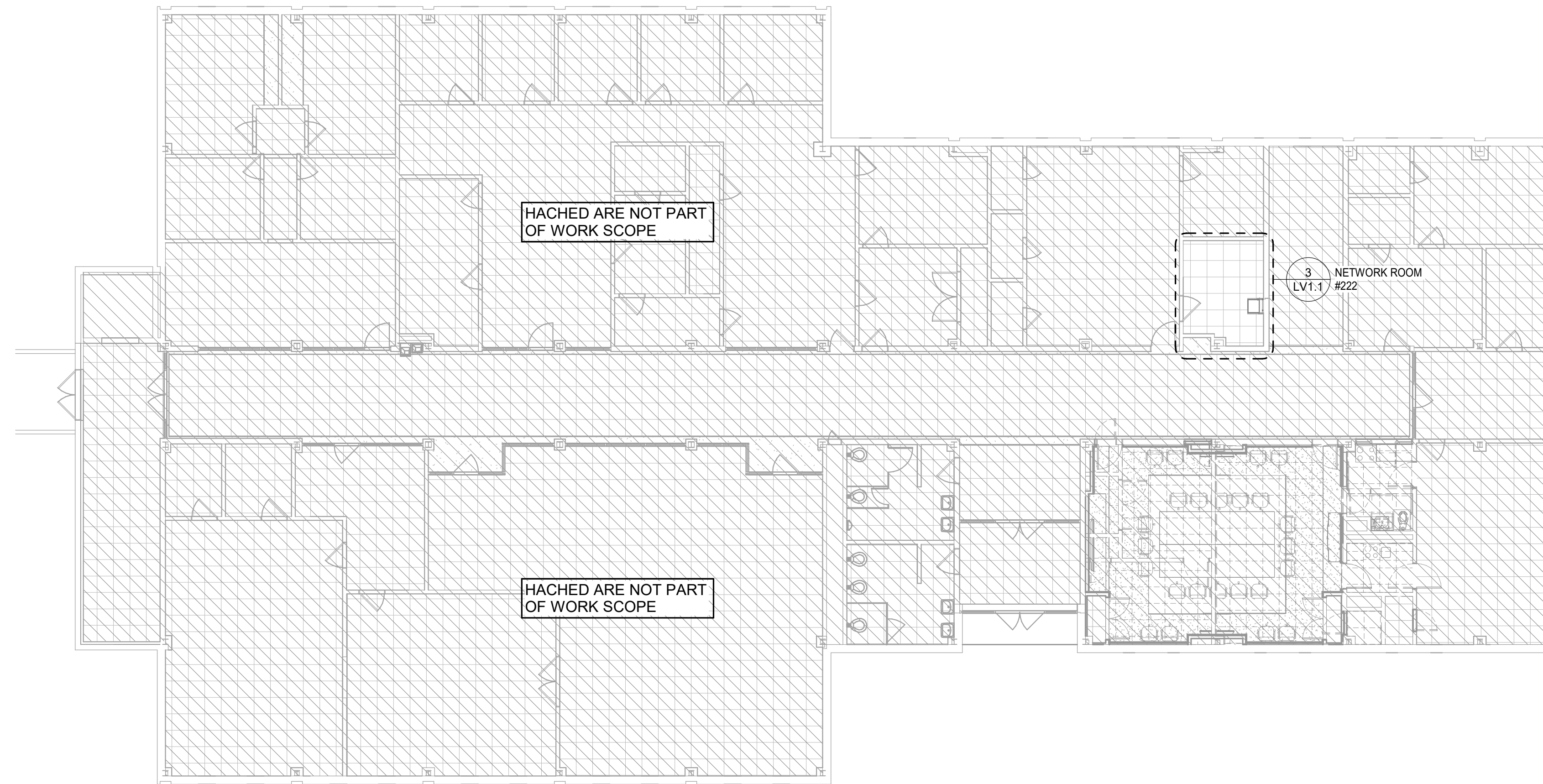
PROJECT DESIGNER	:	BLB/CYW
PROJECT ARCHITECT	:	BLB
PROJECT ENGINEER	:	CIW
DRAWN BY	:	MAR
CHECKED BY	:	Checker
APPROVED BY	:	
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE

LOW VOLTAGE
DETAILS

COMM. NO. 20301.13	DATE JULY 16, 2025
DRAWING	

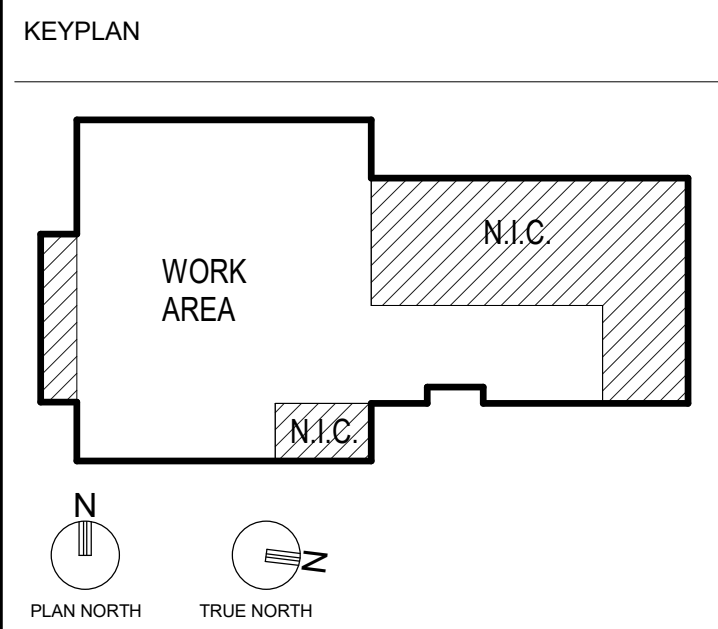
LV0.1



- LOW VOLTAGE SYSTEMS INSTALLATION NOTES:**
- ELECTRICAL CONTRACTOR SHALL REFER TO THE LOW VOLTAGE SYSTEMS DRAWINGS AND SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL OUTLET BOXES, ROUGH-INS, RACEWAY, PATHWAYS AND SUPPORTS AS REQUIRED TO FACILITATE THE INSTALLATIONS OF THESE SYSTEMS.
 - E.C. SHALL COORDINATE WITH VENDORS OF SPECIFIED SYSTEMS ON LOW VOLTAGE DRAWINGS FOR EXACT ROUGH-IN AND BACK BOX REQUIREMENTS.
 - RESPECTIVE LOW VOLTAGE CONTRACTOR SHALL PROVIDE AND INSTALL CABLING, SYSTEM DEVICES, COMPONENTS AND HARDWARE AS PART OF WORK SCOPE, AND AS DESCRIBED IN LV DRAWINGS AND DIVISION 27 AND 28 SPECIFICATIONS.

PLAN NOTES (CONTINUED)

- 11 NEW FIRE STOPPED FLOOR PENETRATION FOR ROUTING OF FIBER OPTIC CABLE TO FIBER TERMINATION PANEL.
- 12 PROVIDE AND INSTALL NEW 2" SLEEVE FOR ROUTING FIBER OPTIC CABLE TO FLOOR ABOVE. PROPERLY FIRESTOP OPENING. REFER TO DETAIL ON THIS SHEET.
- 13 EXTEND ONE (1) 1 1/4" C. FROM ACCESSIBLE CEILING SPACE TO EACH CABINET FOR ROUTING OF NETWORK CABLES TO OUTLETS.



PLAN NOTES

- ① ONE (1) 4" SLEEVE ABOVE CEILING FOR ROUTING OF HORIZONTAL CABLING
- ② TWO (2) 4" SLEEVES ABOVE CEILING FOR ROUTING OF HORIZONTAL CABLING
- ③ PROVIDE AND INSTALL 12-STRAND PLENUM RATED SINGLE MODE OS2 OPTICAL FIBER IN INERDUCTOR FROM DATA CLOSET #12 TO TERMINAL BOARD #22 ON THE FLOOR ABOVE. INSTALL J-HOOK CABLING PATHWAY IN NEW WORK AREA. ROUTE CABLE THROUGH EXISTING CABLE TRAY IN CORRIDOR 160. TERMINATE CABLES WITH 10' CONVEYOR LOOP ON BOTH ENDS. PROVIDE AND INSTALL PIGTAILED CASSETTE WITHIN EXISTING WALL MOUNTED FIBER HOUSING BELOW EXISTING RACK FOR FIBER TERMINATION.
- ④ PROVIDE AND INSTALL 3/4" FIRE RATED PLYWOOD FOR COMMUNICATIONS (TERMINAL BOARD) CABINET. THE BACKBOARD SHALL BE 4 X 8 SHEETS, MOUNTED VERTICALLY, WITH THE BOTTOM OF THE PLYWOOD MOUNTED 2" AFF WITH THE WALL. MAKE A SURFACE EXPOSED. REFER TO SPECIFICATIONS.
- ⑤ WALL MOUNTED TELECOMMUNICATION RACK. REFER TO DETAIL.
- ⑥ TELECOMMUNICATIONS GROUNDING BUSBAR MOUNTED ON TERMINAL BOARD #24 AFF. REFER TO DETAILS. EXTEND #2 AWG INSULATED GROUND CONDUCTOR IN 1" C. TO GROUND BUS IN PANEL A.
- ⑦ 24" WIDE RAIL TRAY, MOUNTED AT 7'-0" AFF.
- ⑧ EXTEND ONE (1) 1 1/4" C. FROM ACCESSIBLE CEILING SPACE TO CABINET FOR ROUTING OF NETWORK CABLE TO OUTLETS IN CABINET. CUT AND PATCH EXISTING FLOOR SLAB ALLOW FOR ROUTING CONDUIT BELOW SLAB BETWEEN WALL AND CABINET.
- ⑨ EXISTING FLOOR CONDUITS CONTRACTOR TO VISIT SITE FOR COORDINATION AND EXACT LOCATION PRIOR TO SUBMITTING BID.
- ⑩ EXISTING NETWORK COMMUNICATIONS WALL RACK WITH FIBER TERMINATION BELOW. CONTRACTOR TO VISIT SITE FOR COORDINATION AND EXACT LOCATION PRIOR TO SUBMITTING BID.



PROJECT TITLE

**WCC MAIN CAMPUS -
BLAND HALL RENOVATION
WYTHEVILLE, VA**

BID SET

PROJECT CODE: #260-B4260-040

S F C S | Architecture
Engineering
Planning
Interiors

SFCS Inc. ■ 305 South Jefferson Street
Roanoke, Virginia 24011.2003
540.344.6664 ■ Fax 540.343.6925
www.sfcs.com

PROJECT DESIGNER			: BLB/CYW
PROJECT ARCHITECT			: BLB
PROJECT ENGINEER			: CIW
DRAWN BY			: MAR
CHECKED BY			: Checker
APPROVED BY			:
NO.	REVISION DESCRIPTION	DATE	

DRAWING TITLE

GROUND FLOOR PLAN
- LOW VOLTAGE

COMM. NO. 20301.13	DATE JULY 16, 2025
DRAWING	