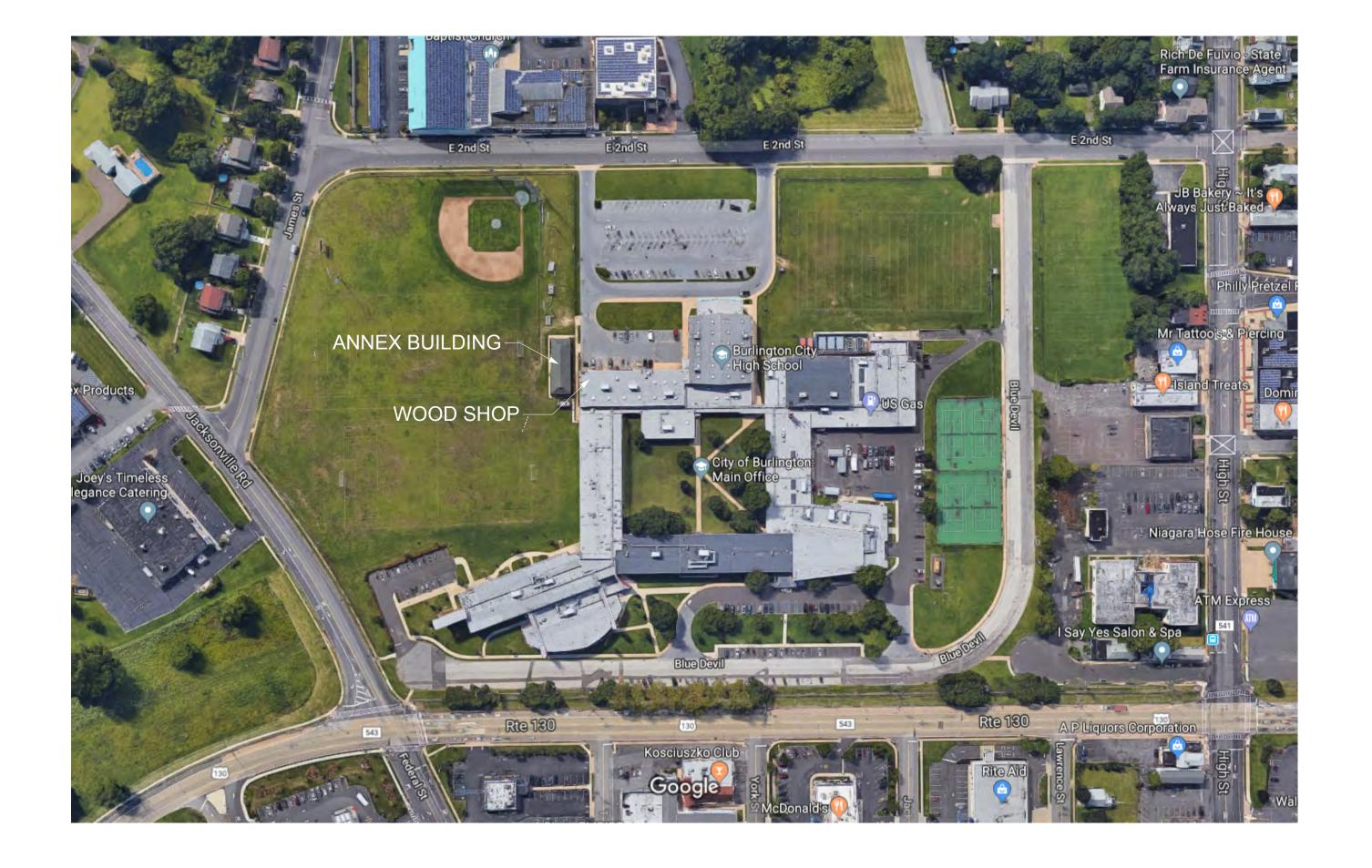
PROJECT DRAWINGS

FOCUSED SUPPORT ACADEMY ALTERATION

BURLINGTON CITY HIGH SCHOOL 100 BLUE DEVIL WAY BURLINGTON, NJ 08016 BURLINGTON COUNTY LOT 2 / BLOCK 169.01



SITE PLAN

CONSTRUCTION NOTES:

SCOPE OF WORK:

Contractor(s) shall comply with the current NEW JERSEY UNIFORM CONSTRUCTION CODE (UCC) REHABILITATION SUBCODE & all applicable subcodes, ordinances & regulations of federal, state, municipal, & other governing bodies. Contractor(s) shall be solely responsible for & have control over construction means,

methods, techniques, sequences & procedures, shoring & bracing, jobsite safety, &

- for coordinating all portions of work. Prior to submitting a bid, the Contractor(s) shall visit the site of the Work & shall thoroughly familiarize themselves w/ the exist'g conditions affecting the work & shall report any errors to the Arch't. By the act of submitting a bid, the Contractor(s) shall be deemed to have made such an examination, to have accepted such conditions, and to have made allowance therefore in preparing their bid. No additional compensation will be granted on the account of extra work made necessary by the
- Contractors' failure to investigate such exist'g conditions. Contractor(s) shall perform the Work in accordance with the documents, or assume responsibility for corrections. Contractor shall keep the premises & surrounding area free from accumulation of waste mat'ls & rubbish caused by operations under the Contract. At completion of the Work the Contractor shall remove from & about the Project waste mat'ls, rubbish, the Contractor's tools, construction equipment, machinery, & surplus mat'ls.

- General Contractor shall be responsible for providing all necessary permits. Complete building permit application and file with authorities having jurisdiction within five days of the Notice to Proceed or the date of execution of the Contract, whichever
- Fees shall be paid for by the Owner or reimbursed after submission of receipt to Architect for Owner's payment.

Are to outside surface of finish mat'ls unless shown otherwise. All dimensions are nominal and shall be field verified.

- Prior to commencement of the Work, the Contractor shall survey the exist'g conditions & record them by use of preconstruction photographs &/or videotapes. Provide Architect with an electronic copy of the survey.
- Prior to the commencement of any underground excavation, the Contractor shall call & obtain local identification of underground utilities & identification. Phone 1-800-272-1000. A copy of the approval notification shall be available for inspection at the
- Prior to the commencement of the Work, the Contractor shall verify through the Owner's fire alarm vendor, (Bevan Security Systems, Rand Bevan, 856-461-2234) the status of the entire exist'g fire alarm system & submit a written report indicating the status of the system & list all devices that are inoperative. Otherwise, the Contractor takes full responsibility for all non-functioning devices.
- Do not proceed w/ any interruption of services w/o Owner's written permission. The Owner's Automatic Temperature Control (ATC) vendor is Carrier Systems. Heidi
- Prior to the commencement of the Work, the Contractor shall review with the Owner all mat'ls & equipment to be removed. Should the Owner opt to keep any items, the Contractor shall salvage & deliver the items to the Owner on the site where so directed & properly dispose of all other demolition & construction mat'ls. Remove all exterior structures, interior walls, flooring & clg finishes, fixtures & other
- items as noted on dwgs. Support exist'g structural system before removing & replacing exist'g structure. Temporarily brace & shore all areas where supporting structures are removed until new construction is securely in place.
- Maintain building envelope in a weathertight & secure condition for the duration of the

Refer to MPE documents for additional requirements.

REPAIR, PATCH & PAINT:

There are areas w/in the bldg where lead paint is present. Contractor shall comply w/ OSHA Lead In Construction Standard.

All areas disturbed during demolition & construction shall match adjacent mat'ls & finishes at project completion.

Exist'g openings in clgs & walls shall be patched to match adjacent mat'ls & finishes.

- **EXISTING CONCRETE FLOOR:** Contractor is responsible for preparing, finishing and all required testing of the concrete
- slabs in accordance with the most stringent requirements of the finish floor systems specified and selected by the Owner.
- Scrape, shot blast, clean & patch as per ASTM D4259, Standard Practice for Abrading Concrete to expose bare concrete & provide an acceptable level floor. Prepare surface to receive specified floor finish.
- Contractor shall ensure that the existing concrete work complies with the requirements of the finish floor manufacturer(s) selected for use on this project. This includes, but is not limited to, tolerances and conditions, rapid relative humidity testing as per ASTM F2170, Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes, bond testing, and alkalinity testing. General Contractor shall supply the Architect with copies of all test results, the finish floor manufacturer's concrete subfloor requirements, and letters of acceptance from the finish floor manufacturer(s) prior to proceeding with the concrete subfloor work.
- use shall not be permitted. Where cement based interior self-level'g underlayment is req'd, it shall be the

The use of curing compounds on subfloors where finish floor manufacturers prohibit their

- responsibility of the Contractor to provide an underlayment compatible with the
- Where new concrete is req'd, it shall be the responsibility of the Contractor to review the intended concrete design mix with the limitations imposed by the finish floor manufacturers, and if necessary, make recommendations to the Architect of an amended design mix that would better facilitate the standards of the finish floor manufacturer's requirements. No additional compensation shall be awarded for the use of an alternative design mix.
- The use of curing compounds on subfloors where finish floor manufacturers prohibit their use shall not be permitted Contractor shall be required to employ whatever means necessary to meet the
- requirements of the finish floor manufacturers for concrete slabs without additional compensation or time extension.

SUSPENDED CEILING:

Shall be USG 2310, 2' x 4' x 5/8" lay-in acoustical panel w/ 15/16" exposed grid clg assembly to match District standard. Finish clg height per Finish Schedule.

Contractor shall remove & reinstall exist'g intrusion detection devices at door openings to maintain the intrusion detection system & test prior to Substantial Completion.

FIREBLOCKING/DRAFTSTOPPING:

- Through penetrations shall be protected by an approved penetration Fireblock system installed & tested in accordance w/ ASTM E 814 or UL 1479, w/ a minimum positive pressure differential of 0.01 inch (2.49 Pa) of water & shall have an F rating of not less
- than the required fire-resistance rating of the wall penetrated. Existing and new penetrations through rated assemblies shall be sealed on both sides
- with Dow Corning Fire Stop Foam or equal. Fireblocking/draftstopping shall not be concealed from view until inspected & approved by Construction Code Official.

LIST OF DRAWINGS

COVER SHEET

BASE BID (FOCUSED SUPPORT ACADEMY)

D1.1 DEMOLITION PLANS

PROPOSED PLANS

DETAILS & SCHEDULES

PROPOSED EGRESS & FURNITURE PLANS

FP0.1 FIRE PROTECTION COVER SHEET

FP1.1 FIRE PROTECTION FLOOR PLANS

PLUMBING COVER SHEET

PLUMBING FLOOR PLANS

MECHANICAL COVER SHEET

DM1.1 MECHANICAL DEMOLITION PLANS M1.1 MECHANICAL NEW WORK PLANS

MECHANICAL EQUIPMENT SCHEDULES

MECHANICAL CONTROL DIAGRAMS

M4.1 MECHANICAL DETAILS

MECHANICAL DETAILS

ELECTRICAL COVER SHEET

ELECTRICAL FIRST FLOOR PLAN

DE1.1 ELECTRICAL DEMO PLANS LIGHTING PLANS

POWER & FIRE/COMM PLANS

ALTERNATES (ANNEX BUILDING)

AA1.1 ROOF PLAN & DETAILS - ALT-01

AA2.1 FLOOR PLANS & DETAILS - ALT-02

EXISTING CONDITION PHOTOS - ALT-01 & 02

AE.0 ELECTRICAL ANNEX PLAN - ALT-02

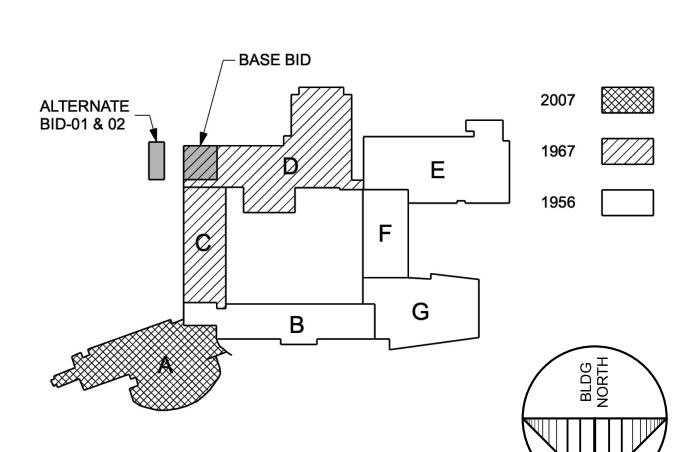
DRAWING TITLE SCALE: 1/8" = 1'-0" | 01 | A-01 DRAWING/DETAIL TITLE DWG/DTL SCALE -DWG/DTL NUMBER SHT REFERENCE NUMBER (WHERE DTL ORIGINATED)

UCC SUBCODES

The following subcodes as adopted by the New Jersey Uniform Construction Code

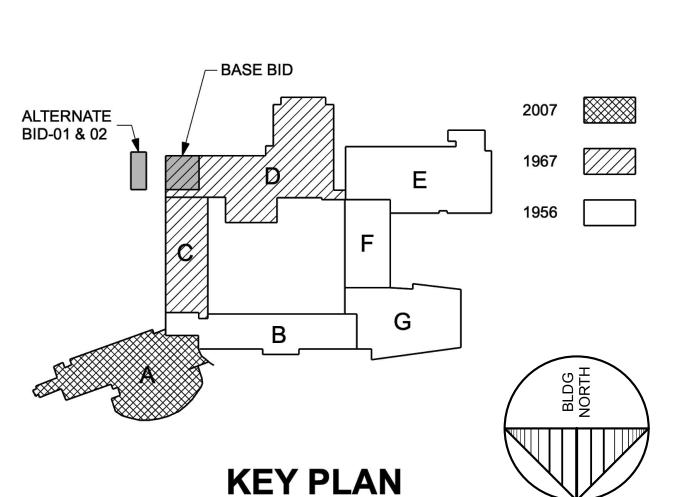
NJUCC, Subchapter 6 NJAC 5:23-6 Rehabilitation Subcode Barrier-Free Barrier-Free Subcode & ICC/ANSI A117.1-2009

NJAC 5:23-3.21 International Residential Code NJ Ed/2015 NJAC 5:23-12 Elevator American Society of Mechanical Engineers



(NJAC 5:23 et seq.), shall apply to this Project. <u>SUBCODE</u> **UCC REFERENCE** NATIONAL MODEL CODE Building NJAC 5:23-3.14 International Building Code NJ Ed/2018 Plumbing National Standard Plumbing Code/2018 NJAC 5:23-3.15 NJAC 5:23-3.16 Electrical National Electrical Code (NFPA 70)/2017 ASHRAE 90.1-2016 (Comm & all other Res) NJAC 5:23-3.18 International Energy Conservation Code/2018 (Res) International Mechanical Code/2018 NJAC 5:23-3.20 Mechanical Fuel Gas NJAC 5:23-3.22 International Fuel Gas Code/2018

Chapter 11 of IBC/2018 & NJAC 5:23-7



OF **1**

COMMISSION NO.

5667C

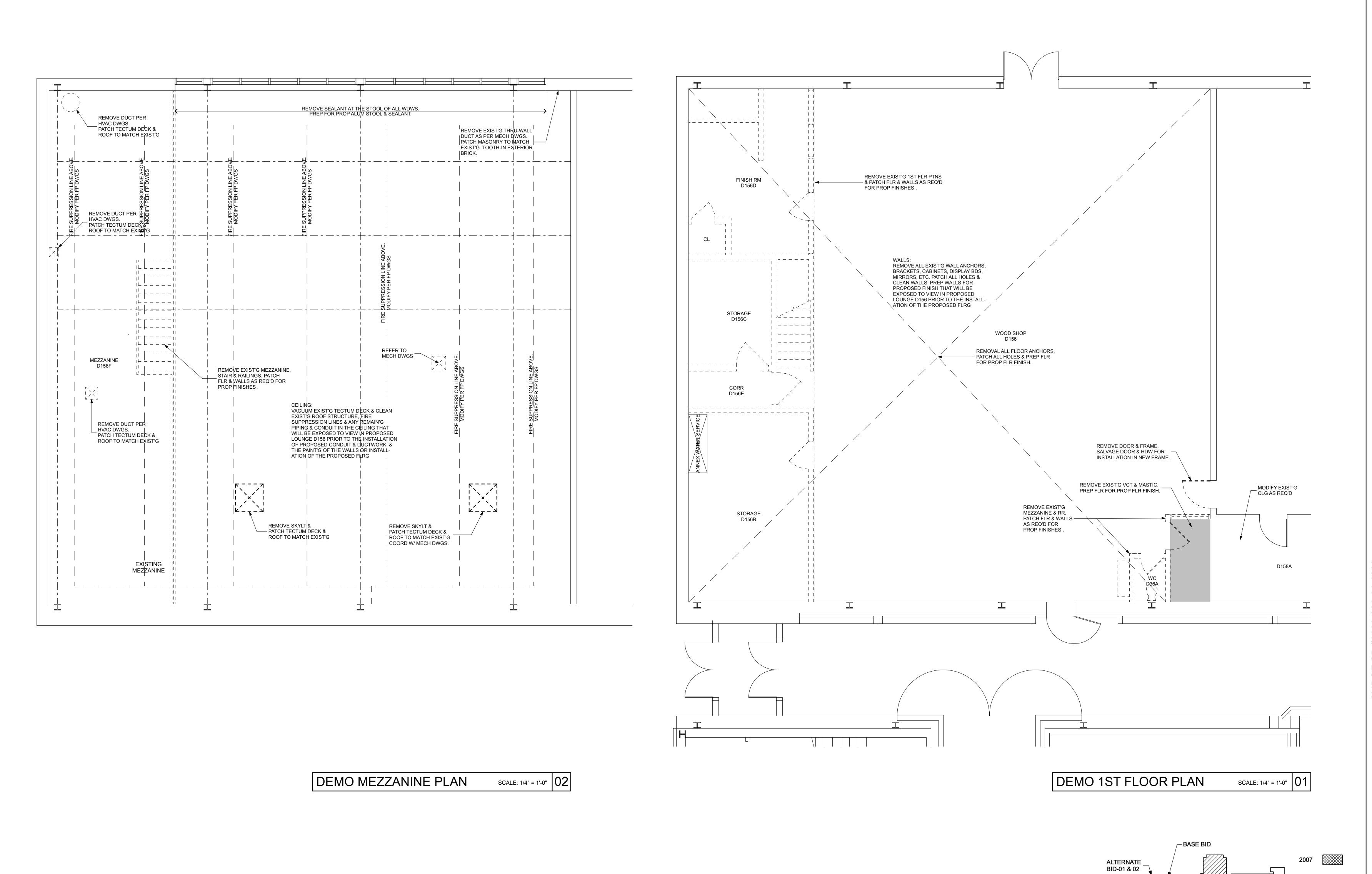
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DRAWING DATE: 23 AUG 21 REVISION DATE: DRAWN BY:

OP FOCUSED SUPPORT A RLINGTON CITY HIGH SC SLUE DEVIL WAY LINGTON, NEW JERSEY

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1000



PROP FOCUSED SUPPORT ACADEMY A
BURLINGTON CITY HIGH SCHOOL
100 BLUE DEVIL WAY
BURLINGTON, NEW JERSEY

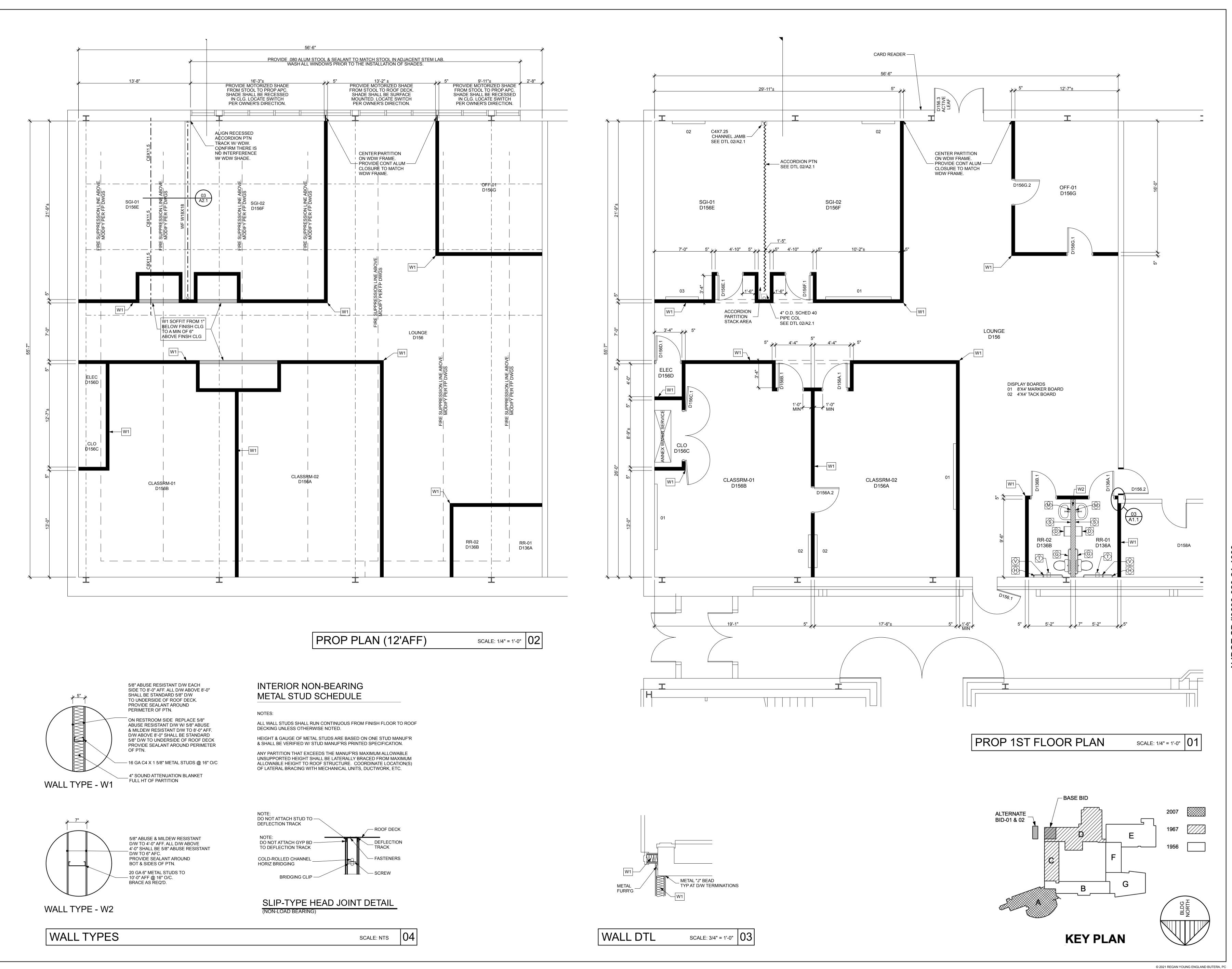
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KEY PLAN



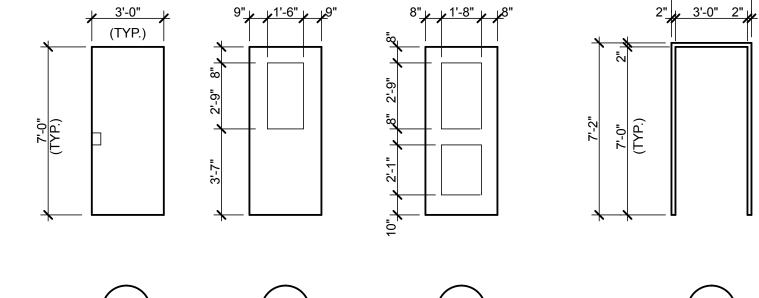
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SCALE: 3/4" = 1'-0" 04 A2.1



DOOR & FRAME TYPES

 \bigcirc 1 (D2) **D3**

SCALE: NTS

ROOM FINISH SCHEDULE RM# ROOM NAME FLR BASE WALLS CLG CLG. HT. REMARKS NORTH EAST SOUTH WEST CT-1 CT-2 PTD PTD PTD PTD APC 9'-6" D136A RESTROOM-01 CT-1 CT-2 PTD PTD PTD APC 9'-6" D136B RESTROOM-02 D156 LOUNGE VCT V PTD PTD PTD PTD E 18'-8" (A) (B) D156A CLASSROOM-02 VCT V PTD PTD PTD PTD APC 9'-6" D156B CLASSROOM-01 VCT V PTD PTD PTD APC 9'-6" D156C CLOSET VCT V PTD PTD PTD APC 9'-6" D156D ELECTRICAL VCT V PTD PTD PTD APC 9'-6" D156E SGI-01 VCT V PTD PTD PTD PTD APC 11'-0" (C) D156E SGI-02
 VCT
 V
 PTD
 PTD
 PTD
 PTD
 APC
 11'-0"
 (B) (C)
 D158A OFFICE

FINISH SCHEDULE KEY

APC Acoustical Panel Ceiling.
CT Ceramic Tile.
PTD Paint

REMARKS

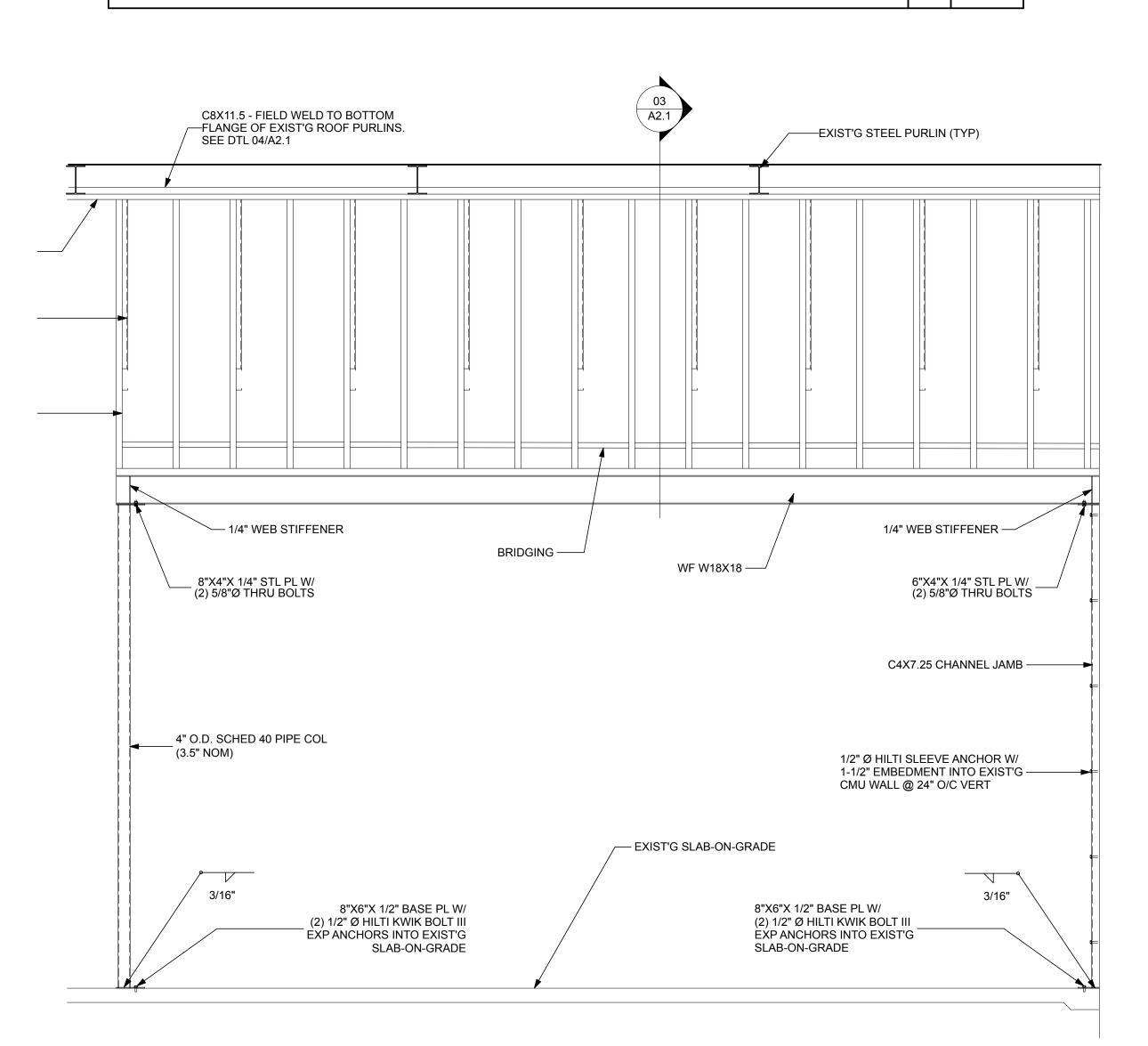
(A) Vacuum exist'g tectum deck & clean exist'g roof structure, fire suppression lines & any remain'g piping & conduit in the ceiling that will be exposed to view Lounge D156. (B) Clean exist'g windows exposde to view.

(C) Align finish clg w/ window dividing rail.

EXIST'G WF STEEL	_ PURLIN—	C8X11.5 - FIELD WEI	I D TO ROTTOM
C8X11.5 - FIELD WELD TO BOTTOM FLANGE OF EXIST'G ROOF PURLINS. SEE DTL 04/A2.1		FLANGE OF EXIST'G	
L 2 1/2 X 2 1/2 X 16 GA CLIP ANGLE W/ (2) HILTI X-DNI FASTENERS TO		—T6X16 GA TRA	СК
CHÀNNEL. FASTEN TO STUDS W/ (2) #10 SCREWS EACH STUD		W/ (2) HILTI : CHANNEL. F	/2 X 16 GA CLIP ANGLE X-DNI FASTENERS TO FASTEN TO STUDS W/ EWS EACH STUD
C6 X 1 5/8" X 16 GA KICKERS @ 32" O/C		(2) #10 3CIN	EWO EAGITOTOD
C6 X 1 5/8" X 16 GA STUDS @ 16" O/C W/ 4" SOUND ATTENUATION BLANKET———— FULL HT OF PARTITION		1/2" D/W EA	A SIDE
FASTEN KICKE W/ (2) #10 SEL	ER TO STUDS F DRILLING SCREWS		IEL BRIDGING. " FROM TOP-OF-BEAM
			PLEG DEFLECTION TRACK X-DNI FASTENERS @ 24" 0/C
	W8X18NTS		US WD BLOCK'G. BOLTS & TRACK CORDION PTN MANUF'R
CON ⁻	T PREFIN METAL CLOSER	APC	
		ACCORDION	N PTN

ACCORDION FRAMING DETAIL

C8 DETAIL



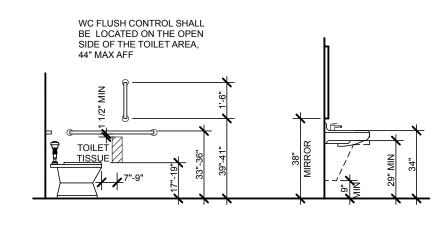
ACCORDION FOLDING PARTITION STRUCTURE

		DO	OR						FRAME		T	2	۵		REMARKS
NUMBER	TYPE	WIDE	HEIGHT	THICKNESS	MATERIAL	GLAZING	TYPE	WIDE	HEIGHT	MATERIAL	GLAZING	RATING (MIN)	THRESHOLD	HDW SET	
D136A.1	D1	3'-0"	7'-0"	1 3/4"	WD	N/A	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	01	
D136B.1	D1	3'-0"	7'-0"	1 3/4"	WD	N/A	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	01	
D156.1	Е	E	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	Е	(A)
D156.2	D1	Е	Е	Е	WD	N/A	F1	ME	ME	PHM	N/A	N/A	N/A	02	
D156.3	Е	E	Е	Е	Е	Е	Ε	Е	Е	Е	Е	E	Е	03	(B) (C)
D156A.1	D2	3'-0"	7'-0"	1 3/4"	WD	SG	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	04	
D156A.2	D1	3'-0"	7'-0"	1 3/4"	WD	N/A	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	05	
D156B.1	D2	3'-0"	7'-0"	1 3/4"	WD	SG	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	04	
D156C.1	D1	(2) 3'-0"	7'-0"	1 3/4"	WD	N/A	F1	6'-4"	7'-2"	PHM	N/A	N/A	N/A	06	
D156D.1	D1	3'-0"	7'-0"	1 3/4"	WD	N/A	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	07	
D156E.1	D2	3'-0"	7'-0"	1 3/4"	WD	SG	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	04	
D156F.1	D2	3'-0"	7'-0"	1 3/4"	WD	SG	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	04	
D156G.1	D3	3'-0"	7'-0"	1 3/4"	WD	SG	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	08	
D156G.2	D3	3'-0"	7'-0"	1 3/4"	WD	SG	F1	3'-4"	7'-2"	PHM	N/A	N/A	N/A	08	

DOOR SCHEDULE KEY ME Match Exist'g N/A Not Applicable PHM Painted Hollow Metal
SG Tempered 1/4" Safety Glass
WD Wood REMARKS (A) Paint exist'g frame.
(B) Paint exist'g door & frame. (C) Replace exist'g active leaf panic device & prep for card reader.

	ACCESS	ORIES
SYMBOL	ITEM	MOUNTING HEIGHT AFF
D*	PAPER TOWEL DISPENSER	OPERATING LEVER 36-INCHES
G	REAR GRAB BAR, 36-INCH, NON-SLIP FINISH - Adult	CENTRELINE OF BAR 33 TO 36-INCHES
Н	HORIZONTAL SIDE GRAB BAR, 42-INCH - Adult	CENTERLINE OF BAR 33 TO 36-INCHES
V	VERTICAL SIDE GRAB BAR, 18-INCH - Adult	BOTTOM OF BAR 39 TO 41-INCHES
М	MIRROR, 18W X 36H	BOTTOM OF MIRROR 38-INCHES MAX
s*	SOAP DISPENSER	OPERATING LEVER 36-INCHES
Т*	TOILET TISSUE DISPENSER - Adult	BOTTOM OF ROLL 15-INCHES MIN

* FURNISHED & INSTALLED BY OWNER



LAVATORY WATER CLOSET

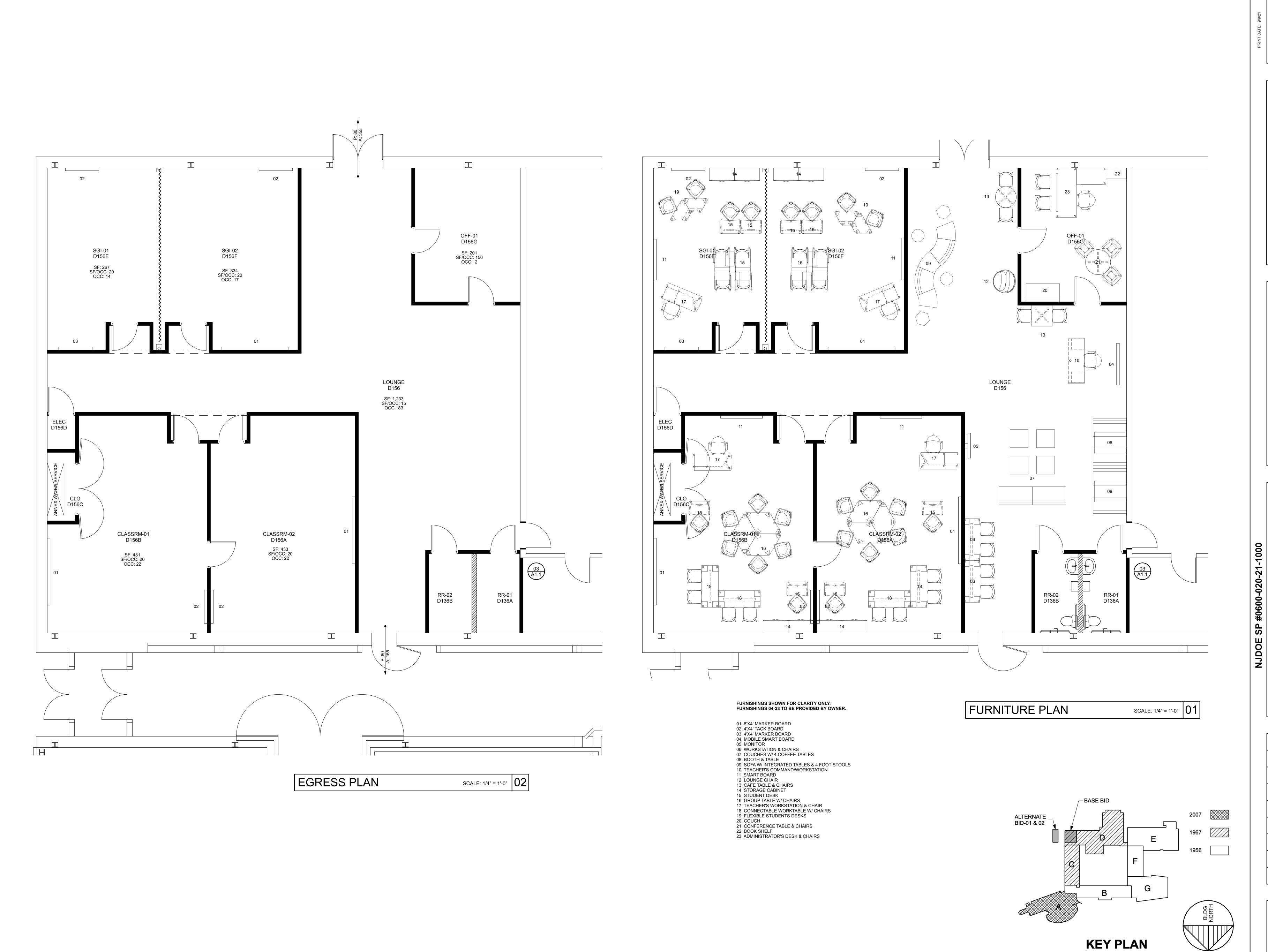
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REGAN YOUNG ENGLAND BUTERA

PROP FOCUSED SUPPORT ACADEMY
BURLINGTON CITY HIGH SCHOOL
100 BLUE DEVIL WAY
BURLINGTON, NEW JERSEY & SCHEDULES DRAWING DATE: 23 AUG 21

REVISION DATE: DRAWN BY:

COMMISSION NO.:



REGAN YOUNG, AIA

SAN YOUNG ENGLAND BUTERA
SENDUMS • ENGINEERING • ARCHITECTURE • DESIGN
GH STREET • MT. HOLLY, NEW JERSEY 08060 USA
3265-2652/-0333FAX • 21A100912100 • RYEBREAD.COM

AY ALT

PROP FOCUSED SUPPORT ACADEMY A
BURLINGTON CITY HIGH SCHOOL
100 BLUE DEVIL WAY
BURLINGTON, NEW JERSEY
PROPOSED EGRESS & FURNITURE PLA

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NTS

NOT TO SCALE

NOT IN CONTRACT

PLUMBING CONTRACTOR

PRESSURE REDUCING VALVE

OUTSIDE SCREW & YOKE GATE VALVE

B. IN STORAGE AND SERVICE AREAS, PIPES MAY BE EXPOSED BUT HOLD TO THE MINIMUM PRACTICABLE DISTANCE BELOW THE CEILING. 2.3 MATERIALS:

A. SPRINKLER HEADS:

1. ABOVE CEILINGS AND/OR IN AREAS WITHOUT FINISHED CEILINGS, PROVIDE STANDARD UPRIGHT TYPE.

2. IN FINISHED CEILINGS, PROVIDE CONCEALED TYPE SPRINKLER HEADS WITH WHITE COVER

B. PROVIDE SUPPORTS, HANGERS, INSERTS, AND ASSOCIATED ITEMS TO PROPERLY SUPPORT

SPRINKLER PIPING IN ACCORDANCE WITH PERTINENT PROVISIONS OF NFPA PAMPHLET NO. 13.

C. VALVE SEALS, SIGNS, TAGS, AND CHARTS:

1. SEALS: PROVIDE BRASS CROSS-LINKS CHAIN. ALL BRASS PADLOCK AND TWO KEYS FOR EACH MANUALLY OPERATED SHUTOFF VALVE REQUIRED TO BE SEALED IN THE OPEN

2. SIGNS: PROVIDE IDENTIFICATION SIGNS OF STANDARD DESIGN, FASTENED SECURELY AT DESIGNATED LOCATIONS IN ACCORDANCE WITH NFPA PAMPHLET NO. 13. PROVIDE PERMANENT ENGRAVED STEEL PLACARD CHAINED TO SPRINKLER VALVE WITH HYRDRAULIC "BASIS OF DESIGN."

3. TAGS: PROVIDE 2" DIAMETER BRASS TAGS, STAMPED WITH DESIGNATION NUMBERS, AND ATTACHED WITH 12 GAGE COPPER WIRE TO SPINDLE OF THE CONTROL VALVES.

4. CHARTS:

a. PROVIDE TWO COPIES OF THE APPROVED "AS-BUILT" SPRINKLER SYSTEM DIAGRAM AND VALVE CHART GIVING DESIGNATION NUMBER, FUNCTION, AND LOCATION OF EACH VALVE.

b. MOUNT IN PAINTED FRAMES UNDER GLASS AND LOCATED WHERE DIRECTED BY THE ARCHITECT.

2.4 OTHER MATERIALS:

A. PROVIDE OTHER MATERIALS NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE

B. PROVIDE INSPECTORS TEST CONNECTION AND DRAIN ACCORDING TO NFPA 13.

C. PROVIDE FLOW SWITCHES, PRESSURE GAUGES, AND SUPERVISORY SWITCHES PER NFPA 13.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS:

A. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

B. SPRINKLER CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING IN ALL AREAS AS REQUIRED UNDER THIS CONTRACT. PATCH ALL WALL, CEILING, AND FLOOR OPENINGS AS NECESSARY.

3.2 INSTALLATION: A. COORDINATE AS NECESSARY WITH OTHER TRADES TO ASSURE PROPER AND ADEQUATE PROVISION IN THE WORK OF THOSE TRADES FOR INTERFACE WITH THE WORK OF THIS SECTION.

B. INSTALL THE WORK OF THIS SECTION IN STRICT ACCORDANCE WITH THE APPROVED DESIGN DRAWINGS AND THE REQUIREMENTS OF THE FIRE MARSHAL, GOVERNMENTAL AGENCIES, AND FIRE RATING BUREAU HAVING JURISDICTION.

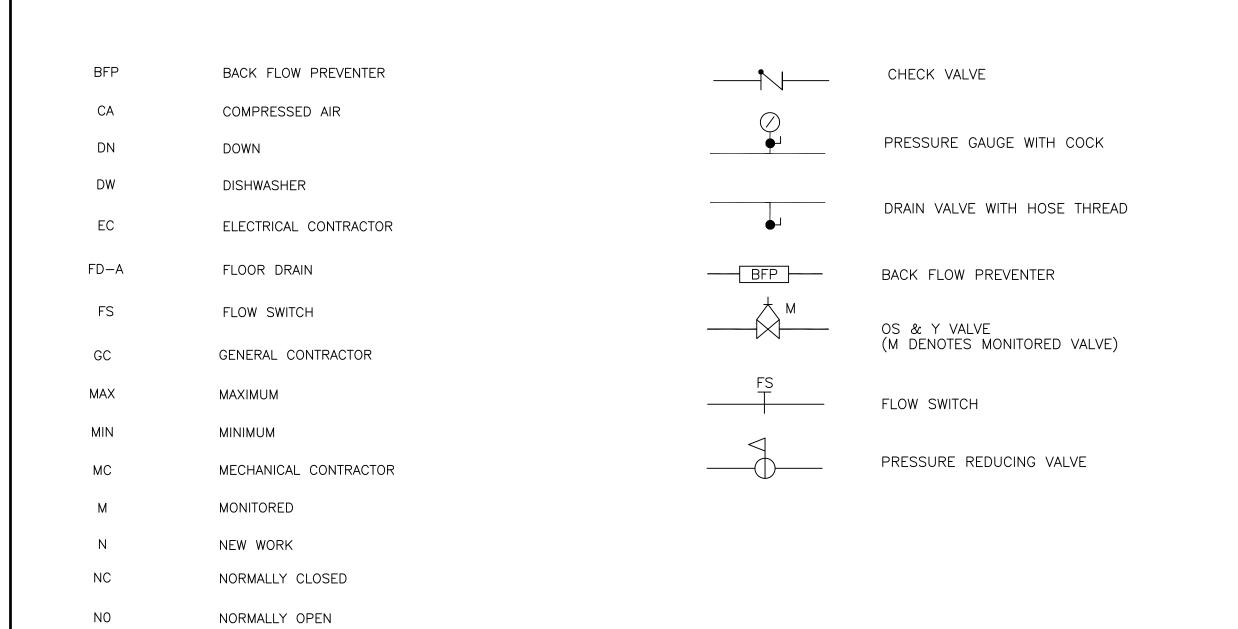
C. PROVIDE HOODS OR SHIELDS ABOVE ALL ELECTRICAL EQUIPMENT IN ELECTRIC ROOMS.

D. THE SPRINKLER CONTRACTOR SHALL MAKE AN ALLOWANCE TO INSTALL A MINIMUM OF 20% ADDITIONAL SPRINKLER HEADS TO BE INSTALLED AS TO PROVIDE ADEQUATE COVERAGE DUE TO ANY MECHANICAL AND/OR ARCHITECTURAL OBSTRUCTIONS, DUCTWORK, PIPING, ETC. INSTALLED DURING CONSTRUCTION WHICH MAY ALTER THE ORIGINAL SPRINKLER DESIGN.

E. SPRINKLER CONTRACTOR SHALL DESIGN SPRINKLER PIPING TO INCLUDE A 20% MARGIN OF SAFETY FOR BOTH AVAILABLE WATER FLOW AND PRESSURE.

F. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIREWALLS AND WALLS WHICH REQUIRE SEALING. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL WALL PENETRATIONS WITH FIRE RATED SEALANT BEFORE FINAL PAYMENT. PROVIDE CODE APPROVED FIRE STOP SYSTEMS AT ALL OPENINGS (CORRIDOR WALLS 2 HOUR RATED). FIRE STOP INSTALLATION MUST MEET REQUIRED ASTM E814 AND UL1479 TESTED ASSEMBLIES, THAT PROVIDE A FIRE RATING EQUAL TO THE CONSTRUCTION BEING PENETRATED.

SYMBOL AND ABBREVIATION LEGEND



DRAWING DATE: 23 AUG 21 REVISION DATE:

> DRAWN BY: OMMISSION NO.:

> > 5667C

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N.J. Professional Engineer GE45368

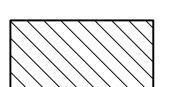
Richard L Delp

215.886. 215.886.

NOTES:

- 1. REFER TO DRAWING NO. FPO.1 FOR LEGEND, ABBREVIATIONS AND GENERAL
- 2. COORDINATE LOCATION OF PIPING AND SPRINKLER HEADS WITH ALL LIGHTING, EQUIPMENT, DUCTWORK, STRUCTURE, ETC.
- 3. INSTALL SPRINKLER HEADS IN CENTER OF TILES IN GRID CEILINGS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING FINISHES.

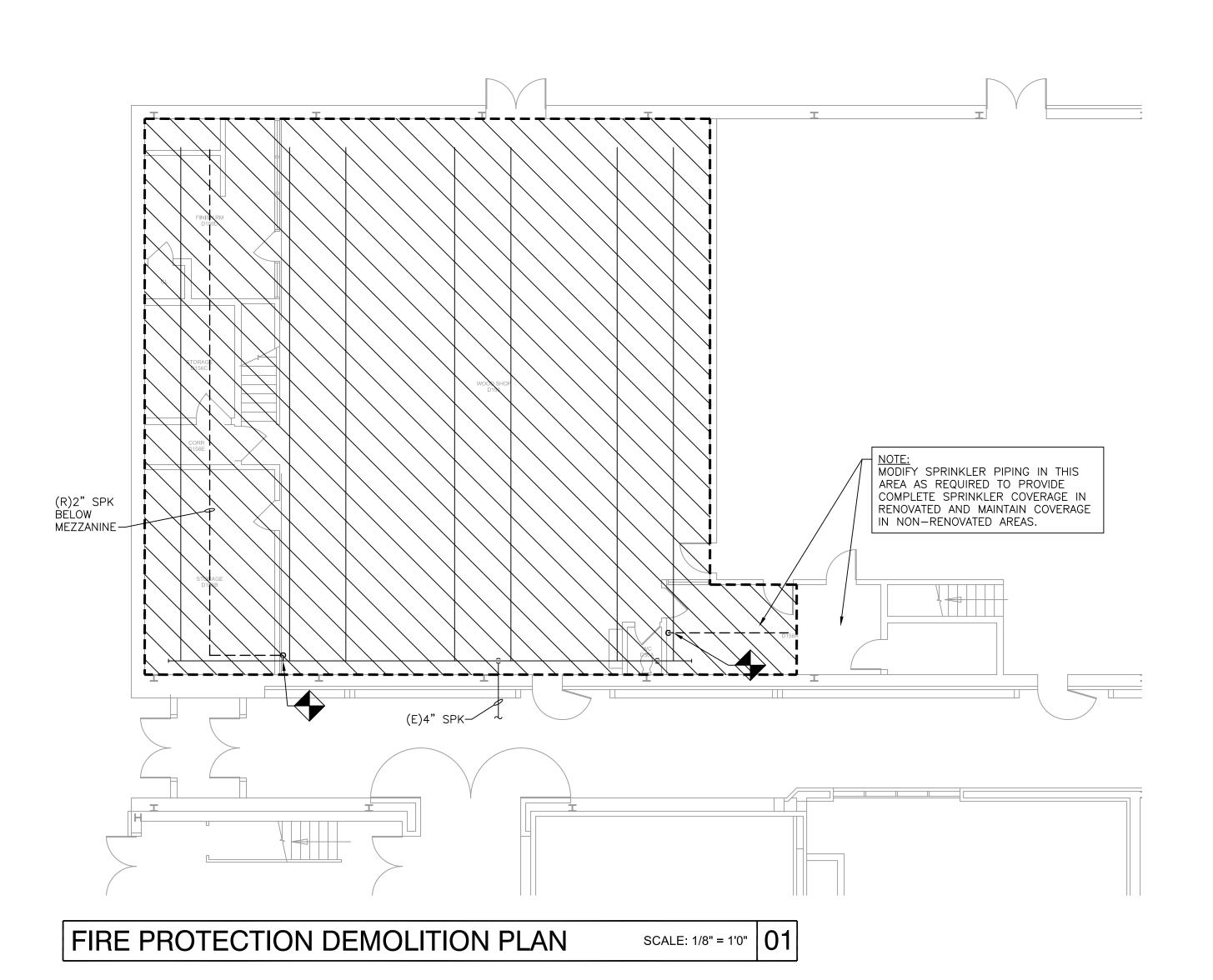
DEMOLITION LEGEND

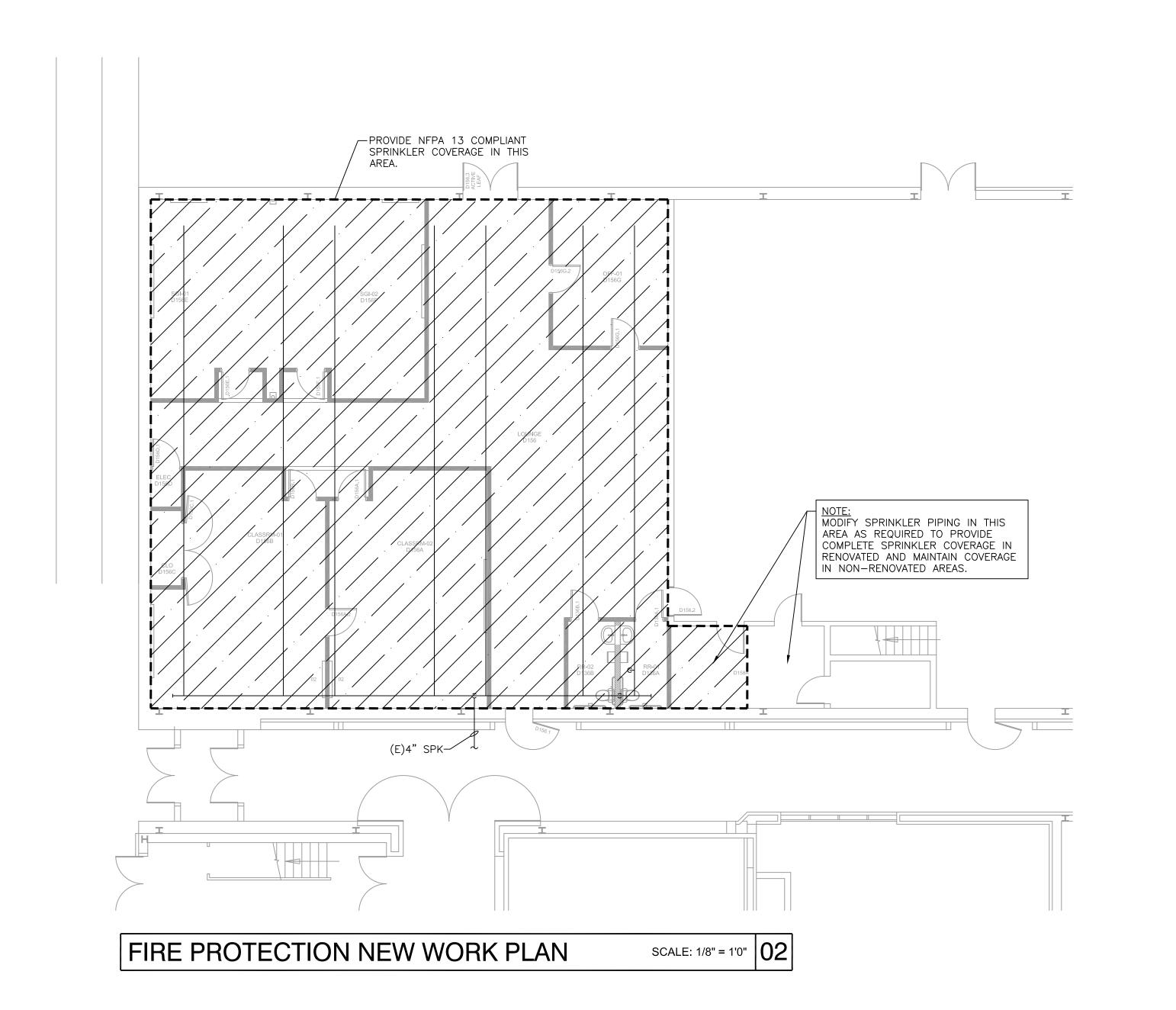


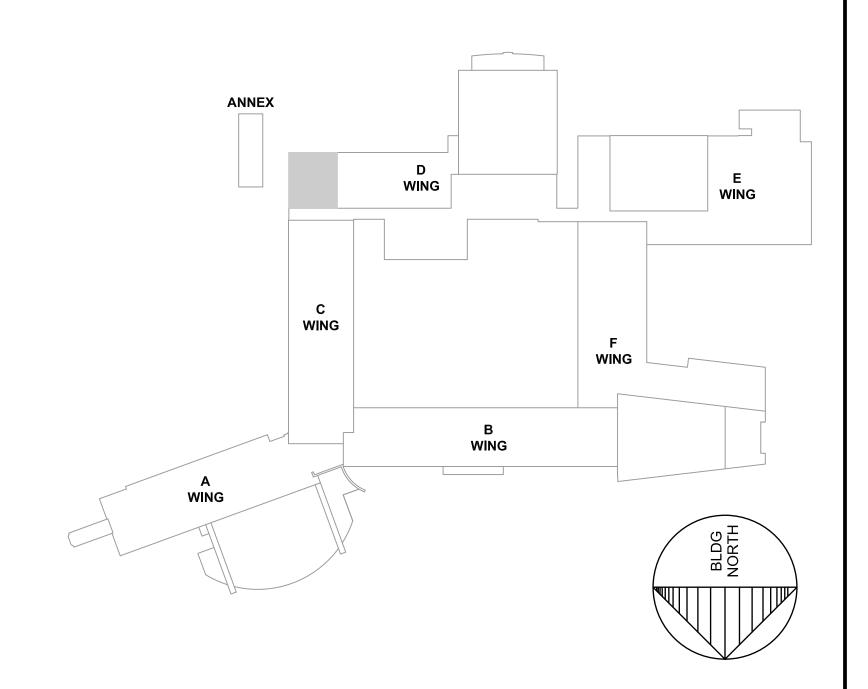
EXISTING SPRINKLER PIPING IS TO BE REMOVED OR RELOCATED IN THIS AREA AS REQUIRED TO ACCOMMODATE NEW ROOM LAYOUTS, CEILINGS, AND DUCTWORK INSTALLATION. ALL HEADS IN RENOVATED AREA ARE TO BE REPLACED WITH NEW

COVERAGE LEGEND









REGAN YOUNG ENGLAND BUTERA
REFERENDUMS • ENGINEERING • ARCHITECTURE • DESIGN
456 HIGH STREET • MT. HOLLY, NEW JERSEY 08060 USA
+1(609)265-2652/-0333FAX • 21A100912100 • RYEBREAD.COM

Richard L Delp

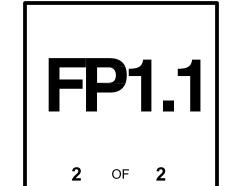
N.J. Professional Engineer GE45368

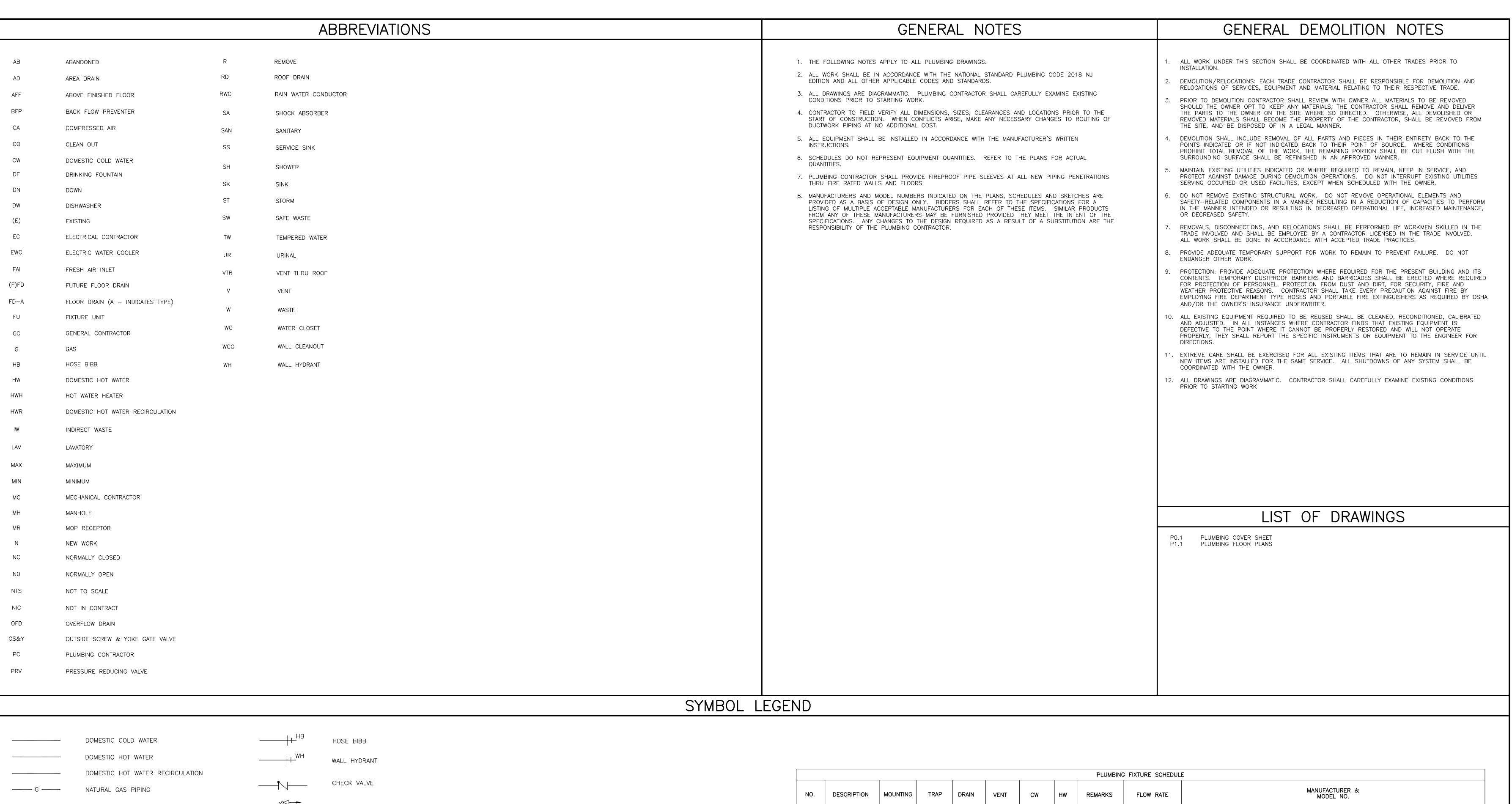
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BURLINGTON, NJ 08016

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23 AUG 21
REVISION DATE:

DRAWN BY:
JCN
COMMISSION NO.:
5667C





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BFP

BACK FLOW PREVENTER

(M DENOTES MONITORED VALVE)

CIRCUIT SETTER

SELF CONTAINED TEMPERING VALVE

EXISTING WORK TO REMAIN

WORK TO BE REMOVED

DENOTES CONNECT TO EXISTING

DENOTES LIMIT OF DEMOLITION

NEW WORK

OS & Y VALVE

BUTTERFLY VALVE

SHOCK ABSORBER

PRESSURE REDUCING VALVE

MONITORED BUTTERFLY VALVE

NATURAL GAS PIPING NO. DESCRIPTION MOUNTING TRAP DRAIN VENT CW HW REMARKS FLOW RATE PROPANE LINE RAIN WATER CONDUCTOR RELIEF VALVE GAUGE WITH COCK NO. DESCRIPTION MOUNTING TRAP DRAIN VENT CW HW REMARKS FLOW RATE NO. DESCRIPTION MOUNTING TRAP DRAIN VENT CW HW REMARKS FLOW RATE WATER CLOSET FLOOR INTEGRAL 4" 2" 3/4" - ADA HEIGHT 1.6 GPF CENTOCO MODEL 2467.016. CENTOCO MODEL 2467.016. CENTOCO MODEL 2467.016. CENTOCO MODEL 550STSCC, ELONGATED, OPEN FRONT SEAT, 6" LONG WC SUPPLY WE REMARKS FLOW WITH COCK TEMPORED WATER W
P-1 WATER CLOSET FLOOR INTEGRAL 4" 2" 3/4" - ADA HEIGHT 1.6 GPF AMERICAN STANDARD CADET MODEL 2467.016. CENTOCO MODEL 550STSCC, ELONGATED, OPEN FRONT SEAT, 6" LONG WC SUPPLY WE SECUTCHEON. CALIGE WITH COCK
AMERICAN STANDARD MODEL #0355.012 LUCERNE, WALL MOUNT.
P-2 LAVATORY WALL "P" 1-1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2"

SHOCK ABSO	DRBER SCHEDULE
TAG NO.	FIXTURE UNITS*
SA-A	1 - 11
SA-B	12 - 32
SA-C	33 - 60

INSTITUTE "STANDARD P.D.I. WH-201"

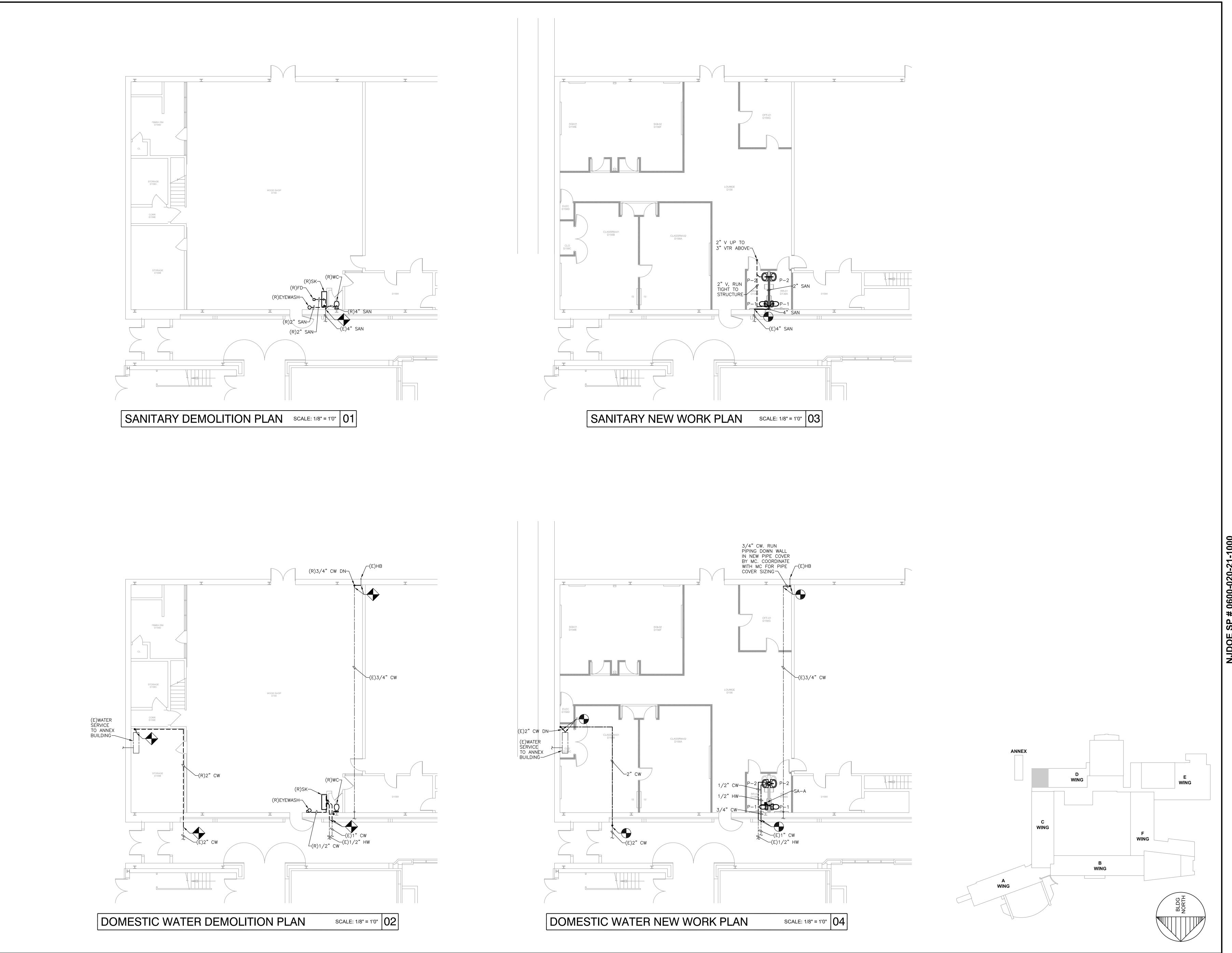
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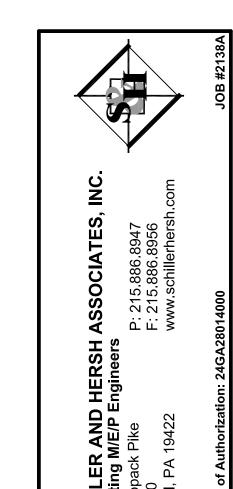
1 OF 2

N.J. Professional Engineer GE45368

Richard L Delp

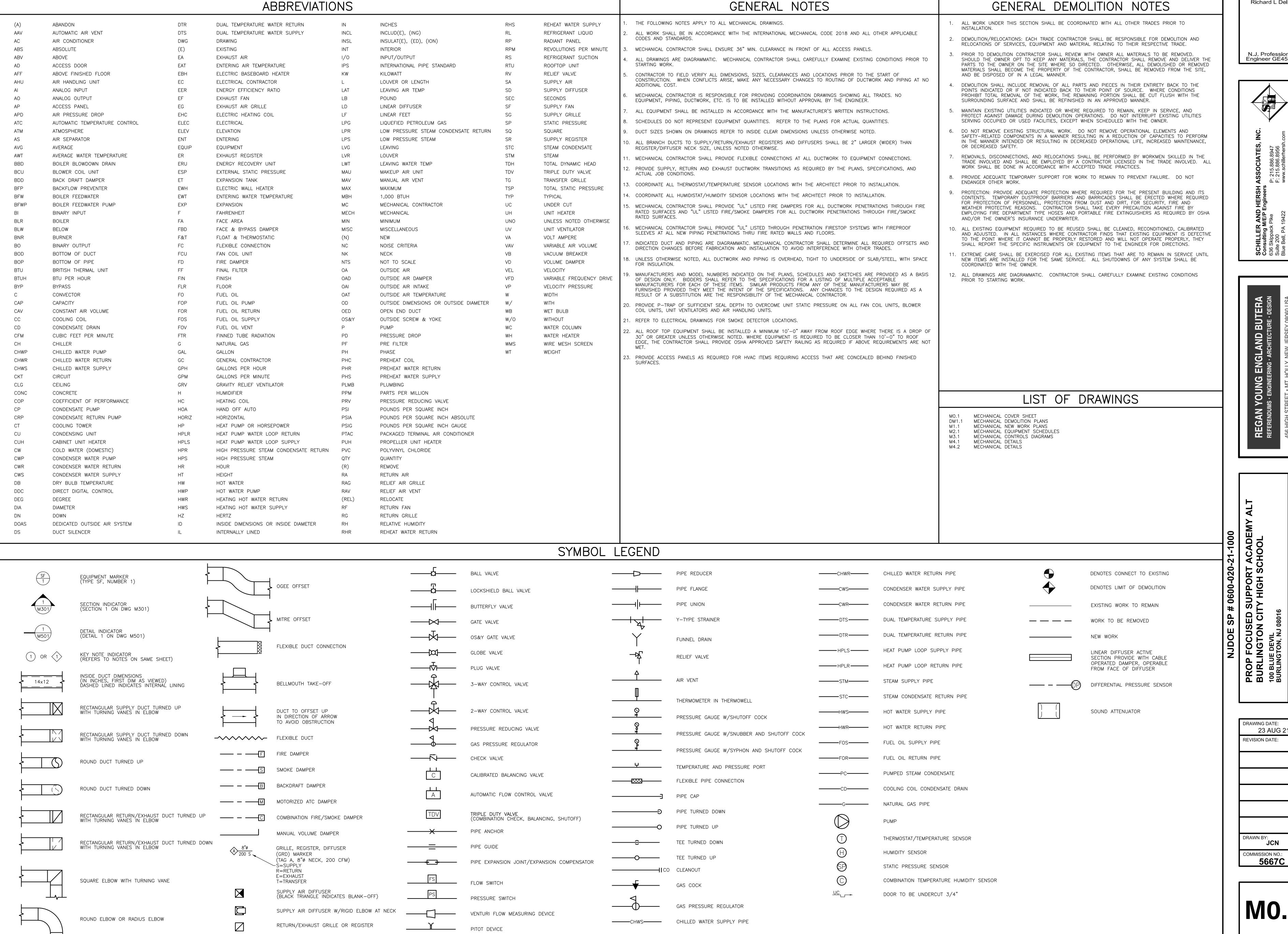
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P1.1 2 OF 2



Richard L Delp

N.J. Professional

Engineer GE45368

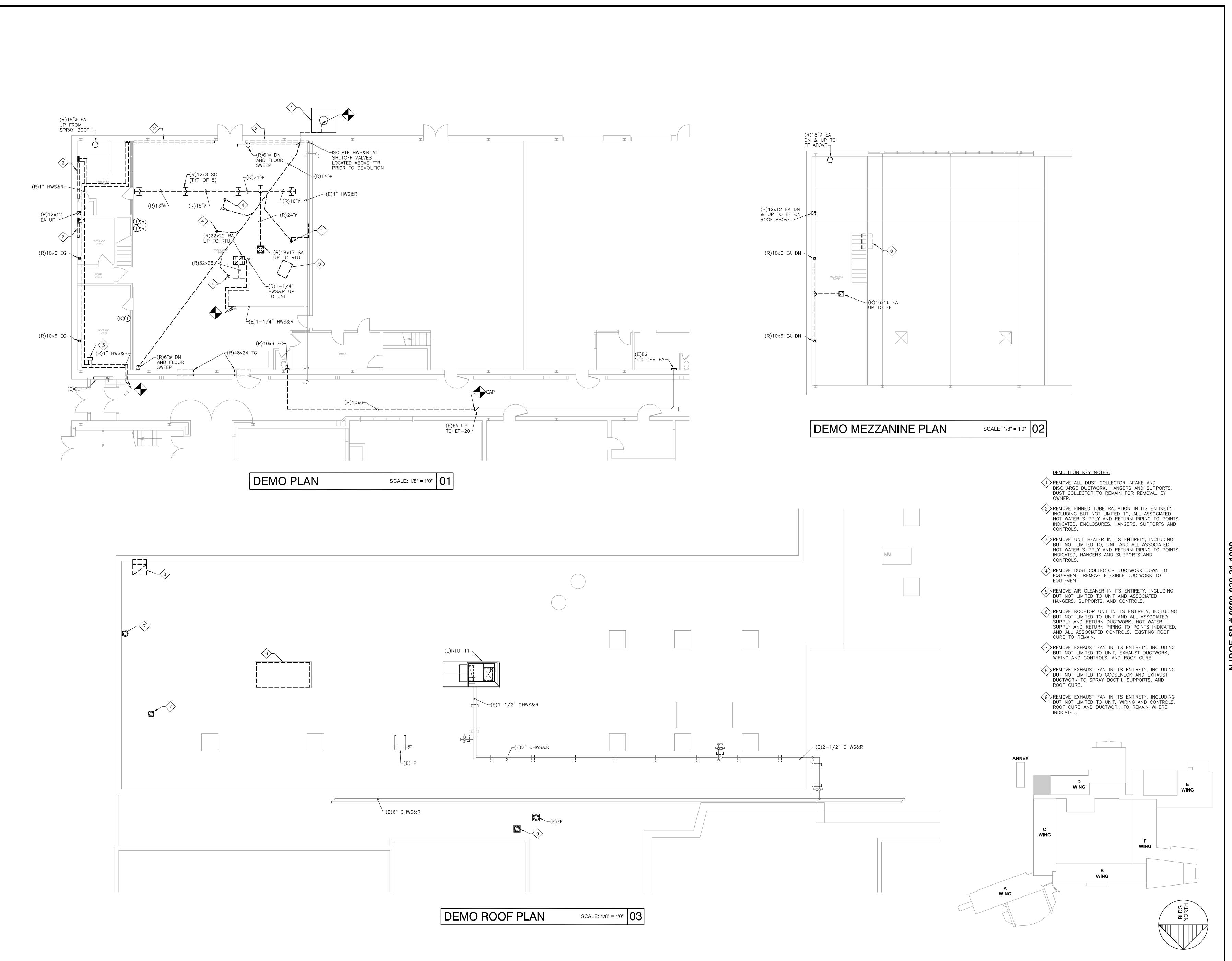
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P FOCUSE LINGTON LUE DEVIL INGTON, NJ 08

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DRAWN BY



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LINGTON CITY HIGH SCHOOL

LUE DEVIL

NGTON, NJ 08016

CHANICAL DEMOLITION PLAN

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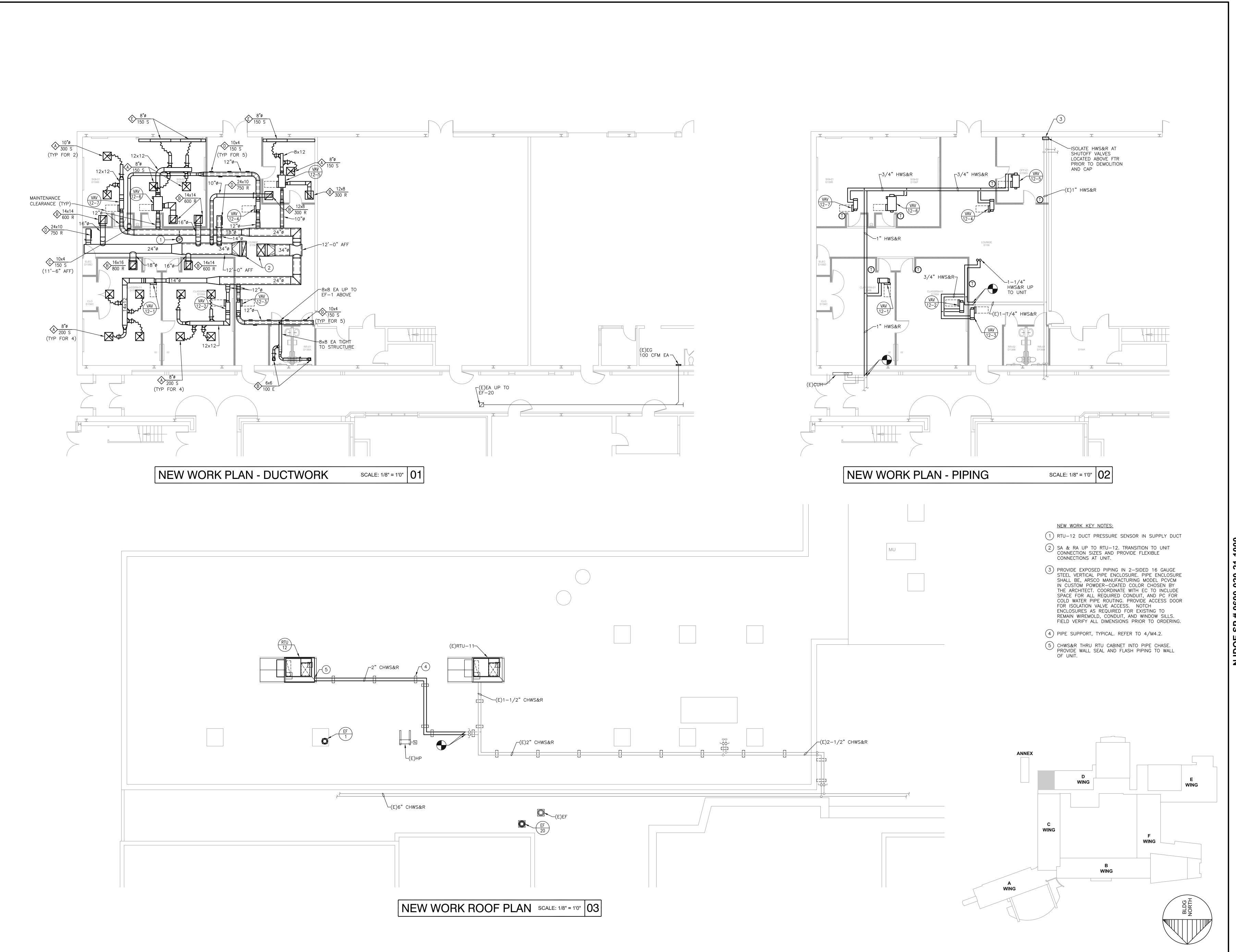
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LINGTON CITY HIGH SCHOOL

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CHANICAL NEW WORK PLANS

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23 AUG 21

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3 OF 7

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														PA	ACKAGED	ROOFTOP	UNIT SCH	EDULE									
		SUPPLY FAN			Н	OT WATE	R PREHEA	T COIL							CHILL	LED WATER	R COOLING	COIL				ELECTRIC	١٨١				
UNIT SUPPLY TAG CFM	MINIMUM OA CFM	CFM ESP TSP BHF) ПВ	AIR	WATER	DOWS	CAPACITY	,	WATER		ENT	AIR	CC LVG	AIR	FIN POWS	NS FACE	TOTAL	SENSIBLE CAPACITY		WA	TER	CHARACTER		MAXIMUM DIMENSIONS L x W x H		OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.
		IN. WC IN. WC		ENT LVC	G EWT LWT	- ROWS	MBH	GPM	ENT LVG	PD FT	DB °F	WB *F	DB °F	WB °F	ROWS PE	CH FPM	MBH	MBH	GPM	ENT °F		PD VOLTS PHASE CYCLE	MCA MOC			EBS.	AND MOBLE NO.
RTU-12 4,500	1,750	4,500 1.5 2.7 2.95	5 5	46.7 80.	.2 180 145	5 1	170	10	180 145	0.7	81.4	67.5	53.7	53.1	6 8	345	181	123	30	44.0	56.6	9.8 460 3 60	10 15	101"x73"x51	" DOWNFLOW	1,450	AAON RN-015

1. PROVIDE UNIT WITH INSULATED BASE PAN AND DOUBLE WALL CABINET CONSTRUCTION WITH 2 INCH THICK INSULATION.

2. PROVIDE UNITS WITH UNIT MOUNTED NON-FUSED DISCONNECT SWITCH AND 4" THROWAWAY MERV 13 FILTERS
3. PROVIDE UNIT WITH 0-100% OUTSIDE AIR COMPARATIVE ENTHALPY ECONOMIZER CONTROLLED BY DEWPOINT, AND BAROMETRIC RELIEF.

4. PROVIDE UNITS WITH DIRECT DRIVE PLENUM SUPPLY FAN AND VFD FOR VAV OPERATION. 5. PROVIDE UNIT WITH TERMINAL STRIP FOR INSTALLATION OF FIELD PROVIDED CONTROLS.

6. PROVIDE UNIT WITH ADAPTER ROOF CURB WITH 3" WIDE FLANGE FOR MECHANICALLY FASTENING CURB TO EXISTING CURB, WITH PIPE CHASE. 7. PROVIDE CONVENIENCE OUTLET WIRED TO LINE SIDE OF DISCONNECT. IF ALTERNATE MANUFACTURER IS PROVIDED AND CANNOT PROVIDE THE SPECIFIED OUTLET, THE MC SHALL

COMPENSATE THE EC TO PROVIDE. 8. PROVIDE UNIT WITH MINIMUM 35kA SCCR RATING.

						VAF	RIABLE	AIR VO	LUME 1	TERMINA	L UNIT SC	HEDULI	Ξ						
										нот у	WATER REH	IEAT CO	OIL						
UNIT TAG	VAV SYSTEM	INLET SIZE (IN)	MAXIMUM PRIMARY AIR CFM	PRIMARY	MAX RADIATED NC AT	MAX DISCHARGE NC_AT	А	IR	CEM	ROWS	CAPACITY		V	/ATER		MAXIMUM DIMENSIONS LxWxH, IN.	WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.	NOTES
VAV-12-1		()		7.11.	1.0" Ps	1.0" Ps	ENT *F	LVG *F	Crivi	ROWS	MBH	ENT °F	LVG °F	GPM	WPD FT. H20	- ,		ANG MODEL NO.	
VAV-12-1	RTU-12	8"ø	800	400	<20	<20	55	86	400	1	13.4	180	153	2	2.5	26x12x10	28	PRICE SDV5-8	1-4,6
VAV-12-2	RTU-12	8"ø	600	300	<20	<20	55	85	300	1	10.0	180	160	1	0.8	26x12x10	22	PRICE SDV5-8	1-4,6
VAV-12-3	RTU-12	8"ø	750	375	<20	<20	55	87	375	1	13.1	180	167	1	2.5	26x12x10	22	PRICE SDV5-8	1-4,6
VAV-12-4	RTU-12	8"ø	750	375	<20	<20	55	87	375	1	13.1	180	167	1	2.5	26x12x10	22	PRICE SDV5-8	1-4,6
VAV-12-7	RTU-12	8"ø	600	300	<20	<20	55	85	300	1	10.0	180	160	1	0.8	26×12×10	22	PRICE SDV5-8	1-4,6

1. PROVIDE UNIT COMPLETE WITH 24V CONTROL TRANSFORMERS. 2. PROVIDE UNIT COMPLETE WITH 1/2" FIBERGLASS LINER INSULATION.

3. PROVIDE UNIT COMPLETE WITH HOT WATER REHEAT COIL

4. PROVIDE 2-WAY MODULATING CONTROL VALVE. 5. PROVIDE 3-WAY MODULATING CONTROL VALVE.

6. PROVIDE UNIT COMPLETE WITH HANGER KIT.

													SERI	ES FAN	POWE	RED TEF	RMINAL I	JNIT SCH	HEDULE												
																	HOT W	ATER REI	HEAT CC	DIL				LINIT	ELECTI						
UNIT TAG	INLET SIZE (IN)	MAXIMUM PRIMARY AIR CEM	PRIMARY	MAXIMUM DISCHARGE NC_AT	MAXIMUM RADIATED NC_AT				SUF	PLY FAI	N			А	IR	OEM.	DOWS (CAPACITY		W	/ATER				ACTERI			MAXIMUM DIMENSIONS, IN. LxWxH	OPERATING WEIGHT LBS.	BASIS OF DESIGN MANUFACTURER AND MODEL NO.	NOTES
(IN) AIR CFM AIR	AII OI W	1.0" Ps	1.0" Ps	CFM	ESP IN. WC	VOLTS	PHASE	HZ	TYPE	QTY.	NOMINAL MOTOR HP	ENT °F	LVG °F	- CFM	ROWS	MBH	ENT °F	LVG °F	GPM	WPD FT. H20	VOLTS	PHASE	HZ	MCA	МОСР	LAWAII	LD3.	AND MODEL NO.			
VAV-12-5	6"ø	300	150	<20	23	300	0.25	120	1	60	ECM	1	1/4	63	93	150	1	9.9	180	160	1	0.73	120	1	60	5.6	15	42x25x19	84	PRICE FDC 1006	1-4,6
VAV-12-6	8"ø	600	300	<20	25	600	0.25	120	1	60	ECM	1	1/3	63	87	300	1	16.1	180	147	1	0.15	120	1	60	5.8	15	46x31x19	135	PRICE FDC 2008	1-3,5,6

1. PROVIDE ALL UNITS COMPLETE WITH NON-FUSED DOOR-INTERLOCKING DISCONNECT SWITCH AND 24V CONTROL TRANSFORMER. 2. PROVIDE ALL UNITS COMPLETE WITH 1" RETURN INLET FILTER RACK WITH DISPOSABLE FILTERS.

PROVIDE ALL UNITS COMPLETE WITH 1/2" FIBERGLASS LINER INSULATION.
 PROVIDE 2-WAY MODULATING CONTROL VALVE.
 PROVIDE 3-WAY MODULATING CONTROL VALVE.
 PROVIDE ALL UNITS COMPLETE WITH HANGER KIT.

								E	XHAUST	FAN SCH	IEDULE					
UNIT	CFM	ESP	ВНР	HP	RPM	SONES	LOCATION	DRIVE: DIRECT/		LECTRICA RACTERIS		CONTROL	MAXIMUM DIMENSIONS	WEIGHT	BASIS OF DESIGN	COMMENTS
TAG	OT IVI	IN. WC	ווום	1 11	1 (1 14)	JONES	LOCATION	V-BELT	VOLTS	PHASE	CYCLE	METHOD	LxWxH, IN.	LBS.	MANUFACTURER AND MODEL NO.	COMMENTS
EF-1	150	0.4	0.04	1/4	1150	5.0	ROOF EXHAUST	DIRECT	120	1	60	DDC SCHEDULE	24x24x24	79	GREENHECK G-097-VG	1,2,3
EF-20	100	0.4	0.02	1/4	1050	3.8	ROOF EXHAUST	DIRECT	120	1	60	DDC SCHEDULE	24x24x24	50	GREENHECK G-097-VG	1,2,4

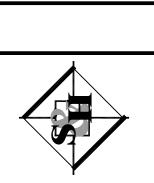
1. PROVIDE UNIT WITH ECM MOTOR WITH UNIT MOUNTED SPEED CONTROLLER AND DISCONNECT SWITCH FACTORY MOUNTED. 2. PROVIDE UNIT WITH BACKDRAFT DAMPER.

PROVIDE UNIT WITH 20" ROOF CURB WITH HINGED BASE AND DAMPER TRAY.
 PROVIDE UNIT WITH ADAPTER CURB AND HINGED BASE.

			GRILLES, REGISTERS A	ND DIFFUSERS SCHEDULE			
TAG	STYLE	CFM	MOUNT	FACE	MAX NC	BASIS OF DESIGN MANUFACTURER AND MODEL NO.	REMARKS
Α	SQUARE, 3-CONE DIFFUSER	VARIES	AS REQ'D	24×24	<20	PRICE SCD	1,2
В	LOUVERED RETURN GRILLE	VARIES	AS REQ'D	VARIES	<20	PRICE 530	1,2
С	LOUVERED SUPPLY GRILLE	VARIES	AS REQ'D	VARIES	<20	PRICE 520	1,2
D	SPIRAL DUCT SUPPLY GRILLE	VARIES	AS REQ'D	VARIES	<20	PRICE SDGE	1,2
E	PLENUM SLOT DIFFUSER	VARIES	AS REQ'D	5'-0"L, (2)1" SLOTS	<20	PRICE SDS100	1,2,3

1. REFER TO PLANS FOR QUANTITIES, NECK SIZE, CFM, AND PATTERN.

2. PROVIDE IN CUSTOM COLOR SELECTED BY ARCHITECT. 3. PROVIDE PLENUMS, PRICE MODEL SDB, AND CONTINUOUS LOUVER GRILLE AS INDICATED ON FLOOR PLANS. N.J. Professional Engineer GE45368



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COMMISSION NO.: 5667C

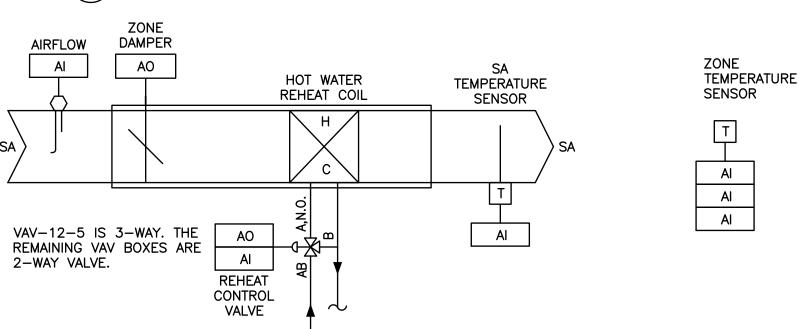
	FAN POWERED	TERM	INAL	_ UN	NIT F	POIN	ITS	LIST									
			1	NPU	TS						TPU	TS		FU	NCT	ION	
		DI	GITA	Ľ	/	ANAL	_OG		DIG	TAL	Α	NALC)G				
POINT TAG	POINT DESCRIPTION	SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	POSITION	TEMPERATURE	SETPOINT	CFM	OPEN/CLOSED	ON/OFF	VALVE ACTUATOR	MODULATE	SPEED	ALARM	TREND		REMARKS
Al	PRIMARY AIRFLOW							Х									
Al	VAV REHEAT COIL VALVE FEEDBACK				Х												
Al	VAV BOX SUPPLY AIR TEMPERATURE					Х								Х			
AO	VAV DAMPER ACTUATOR											Х		Х			
AO	VAV REHEAT COIL VALVE										X						
Al	OCCUPANCY OVERRIDE			Х													
Al	SETPOINT ADJUSTMENT						Χ										
Al	ZONE TEMPERATURE					X									Х		
AO-2	SUPPLY FAN SPEED											Х					
DI-1	SUPPLY FAN STATUS		Х														
DO-1	SUPPLY FAN START/STOP											Χ					
DI-2	DIRTY FILTER SENSOR		Х													X	

SEQUENCE OF OPERATION (FAN POWERED TERMINAL UNITS):

A. OCCUPANCY MODE:

- 1. OCCUPIED: NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN OCCUPIED MODE THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING OR COOLING SETPOINT. APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.
- 2. UNOCCUPIED: NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNNOCCUPIED MODE THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE UNOCCUPIED HEATING OR COOLING SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT THE VAV SHALL MODULATE FULLY CLOSED.
- 3. HEAT/COOL MODE: THE HEAT/COOL MODE SHALL BE SET BY A COMMUNICATED VALUE OR AUTOMATICALLY BY THE VAV. IN STANDALONE OR AUTO MODE THE VAV SHALL COMPARE THE PRIMARY AIR TEMPERATURE WITH THE CONFIGURED AUTO CHANGEOVER SETPOINT TO DETERMINE IF THE AIR IS "HOT" OR "COLD". HEATING MODE IMPLIES THE PRIMARY AIR TEMPERATURE IS HOT. COOLING MODE IT IMPLIES THE PRIMARY AIR TEMPERATURE IS
- 4. HEAT/COOL SETPOINT: THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED EITHER BY A LOCAL SETPOINT, THE VAV DEFAULT SETPOINT OR A COMMUNICATED VALUE. THE VAV SHALL USE THE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A LOCAL SETPOINT AND COMMUNICATED SETPOINT EXIST, THE VAV SHALL USE THE COMMUNICATED SETPOINT.
- 5. COOLING MODE: WHEN THE UNIT IS IN COOLING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE COOLING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM COOLING AIRFLOW SETPOINT (REFER TO VAV SCHEDULE). BASED ON THE VAV OCCUPANCY MODE, THE ACTIVE COOLING SETPOINT SHALL BE 74 DEG F (ADJ.) OCCUPIED AND 78 DEG F (ADJ,) UNOCCUPIED. THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY.
- 6. HEATING MODE: WHEN THE UNIT IS IN HEATING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE HEATING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM SETPOINT AIRFLOW SETPOINT (REFER TO VAV SCHEDULE). BASED ON THE VAV OCCUPANCY MODE, THE ACTIVE HEATING SETPOINT SHALL BE 71 DEG F (ADJ.) OCCUPIED AND 63 DEG F (ADJ,) UNOCCUPIED. THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE HEATING SETPOINT TO DETERMINE THE REQUESTED HEATING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED HEATING
- 7. VAV FAN CONTROL: THE VAV FAN SHALL RUN CONTINUOUSLY IN ALL OCCUPIED MODES. DURING THE UNOCCUPIED MODE, THE PRIMARY AIR VALVE SHALL MODULATE FULLY CLOSED AND THE TERMINAL FAN AND HEAT SHALL CYCLE AS NEEDED TO MAINTAIN A REDUCED SPACE TEMPERATURE.



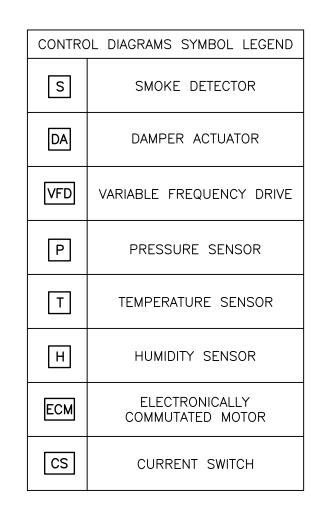


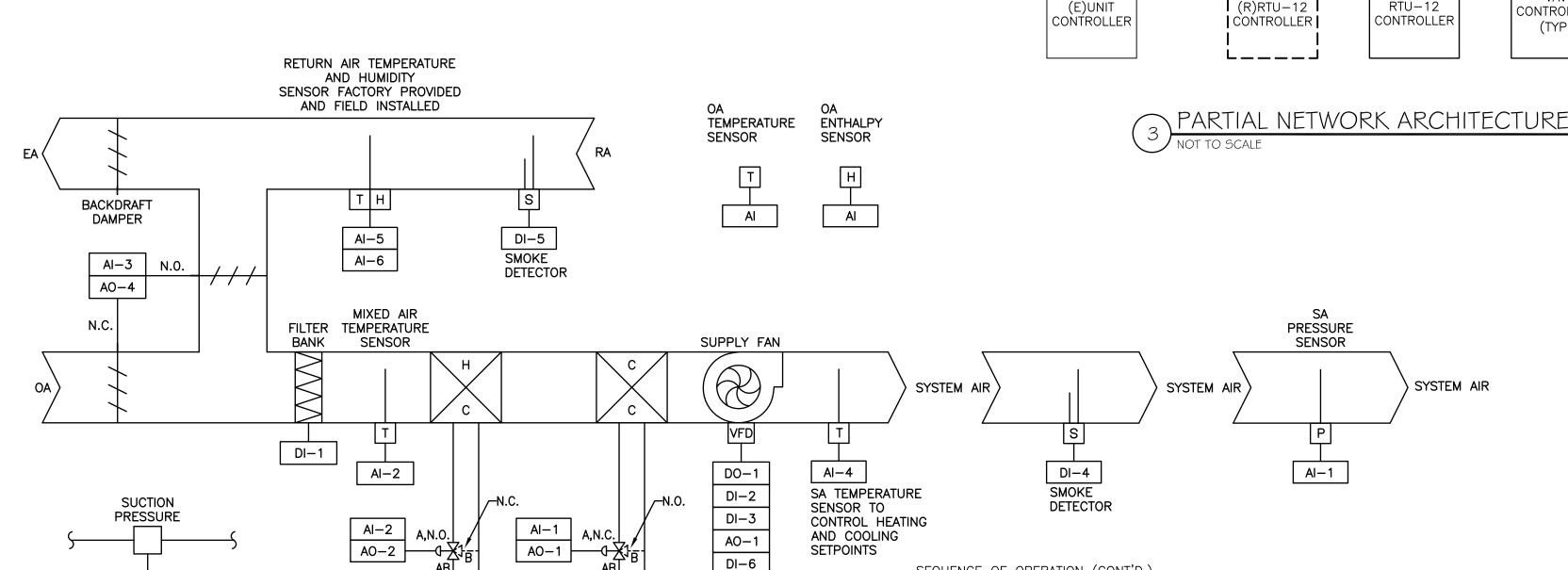
VAV BOX POINTS LIST																	
				INPUTS					OUTPUTS					FUNCTION			
		DI	GITA	L	,	ANAI	LOG		DIG	ITAL	Al	NALC	G	"			
POINT TAG	POINT DESCRIPTION	SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	POSITION	TEMPERATURE	SETPOINT	CFM	OPEN/CLOSED	ON/OFF	VALVE ACTUATOR	MODULATE	SPEED	ALARM	TREND		REMARKS
Al	VAV BOX AIRFLOW							Х									
Al	VAV REHEAT COIL VALVE FEEDBACK				X												
Al	VAV BOX SUPPLY AIR TEMPERATURE					Х								X			
AO	VAV DAMPER ACTUATOR											Х		X			
AO	VAV REHEAT COIL VALVE										Х						
Al	OCCUPANCY OVERRIDE			Х													
Al	SETPOINT ADJUSTMENT						Χ										
Al	ZONE TEMPERATURE					Х									Х		

VAV BOX SEQUENCE OF OPERATION:

- A. VAV BOX WITH REHEAT CONTROL: VAV BOXES WILL BE CONTROLLED BY LOCAL DDC CONTROLLERS. ON A RISE IN TEMPERATURE ABOVE THE CONTROLLER'S SETPOINT (ADJUSTABLE VIA WALL SENSOR). THE VAV BOXES WILL MODULATE THE AIRFLOW BETWEEN MINIMUM AND MAXIMUM SETPOINTS. ON A DROP IN TEMPERATURE BELOW SETPOINT. THE VAV BOX WILL MODULATE ITS DAMPER TO MINIMUM POSITION. ON A FURTHER DROP IN TEMPERATURE. THE VAV BOX WILL MODULATE ITS DAMPER TO THE REHEAT AIRFLOW POSITION AND THE HOT WATER REHEAT COIL CONTROL VALVE WILL MODULATE TO MAINTAIN SPACE TEMPERATURE. THE BMS WILL PLACE EACH VAV BOX IN EITHER THE OCCUPIED OR UNOCCUPIED MODE BASED ON AN OPERATOR ADJUSTABLE TIME SCHEDULE. THE VAV BOX WILL BE CAPABLE OF BEING PLACED IN THE OCCUPIED MODE BY PRESSING AN OVERRIDE BUTTON ON THE WALL SENSOR. THE HOT WATER REHEAT COIL CONTROL VALVE SHALL FAIL IN THE OPEN POSITION.
- B. SPACE TEMPERATURE ADJUSTMENT: THE SPACE TEMPERATURE SENSOR WILL HAVE AN ADJUSTMENT CAPABILITY THAT WILL ALLOW THE SPACE TEMPERATURE SETPOINT TO BE ADJUSTED +/- 2 DEGREES F.







-EXISTING CARRIER

<u>SEQUENCE OF OPERATION (CONT'D.)</u>

G. ECONOMIZER OPERATION

SETBACK OPERATION.

I. SUPPLY FAN OPERATION

COOLING STAGES OFF.

K. SUPPLY AIR TEMPERATURE CONTROL

J. EARLY START:

H. VAV OPERATION

CCN CONTROL

NETWORK

	VAV	ROC	OFTC)P (JNIT	PO	INTS	LIS	ST								
		INPUTS								OUTPUTS							
	POINT DESCRIPTION	DIGITAL			ANALOG					DIGI	TAL	ANALOG					
POINT TAG		SAFETY SHUT DOWN	STATUS	OCC OVERRIDE	POSITION	TEMPERATURE	PRESSURE	SETPOINT	HUMIDITY	CFM	OPEN/CLOSED	ON/OFF	VALVE ACTUATOR	MODULATE	SPEED	ALARM	REMARKS
DI-1	DIRTY FILTER SENSOR		Х													Х	
AI – 1	SUPPLY AIR STATIC PRESSURE							Χ									
AO-1	SUPPLY FAN VFD SPEED														Х		
DI-2	SUPPLY FAN VFD FAULT															Х	
DI-3	SUPPLY FAN VFD STATUS		X														
DO-1	SUPPLY FAN START/STOP											Χ					
AO-2	COOLING VALVE MODULATE													Х			
Al	COOLING VALVE FEEDBACK											X					
AO-3	HEATING VALVE MODULATE													Х			
Al	HEATING VALVE FEEDBACK											X					
Al-2	MIXED AIR TEMPERATURE					Х											
DI-4	SUPPLY AIR SMOKE DETECTOR	Х	Х													Х	1
DI-5	RETURN AIR SMOKE DETECTOR	Х	Х													Х	1
AI-3	OA/RA DAMPER FEEDBACK				Х												
AO-4	OA/RA DAMPER ACTUATOR													Х		Х	
DI-6	SAFETY SHUT DOWN	Х															
Al-4	SUPPLY AIR TEMPERATURE					Х										X	
Al-5	RETURN AIR TEMPERATURE					Х											
COM	OUTSIDE AIR TEMPERATURE					X											
СОМ	OUTSIDE AIR HUMIDITY								X								
AI-6	RETURN AIR HUMIDITY								X								

HEATING

CONTROL

VALVE FIELD

SUPPLIED

AND

INSTALLED

COOLING

CONTROL

VALVE FIELD

SUPPLIED

AND

INSTALLED

<u>SEQUENCE OF OPERATION - VAV APPLICATION</u>

- A. OCCUPIED MODE INITIATION
- 1. UNIT OCCUPIED MODE SHALL BE DETERMINED BY ATC SYSTEM SCHEDULING.
- B. HVAC MODES OF OPERATION
- a. COOLING MODE b. HEATING MODE
- c. VENT MODE
- d. OFF MODE
- 2. THE VAV UNIT CONTROLLER SHALL POLL THE VAV TERMINAL UNITS TO DETERMINE WHETHER HEATING OR COOLING MODE IS ACTIVE.
- C. COOLING MODE WITH MODULATING CHILLED WATER COOLING

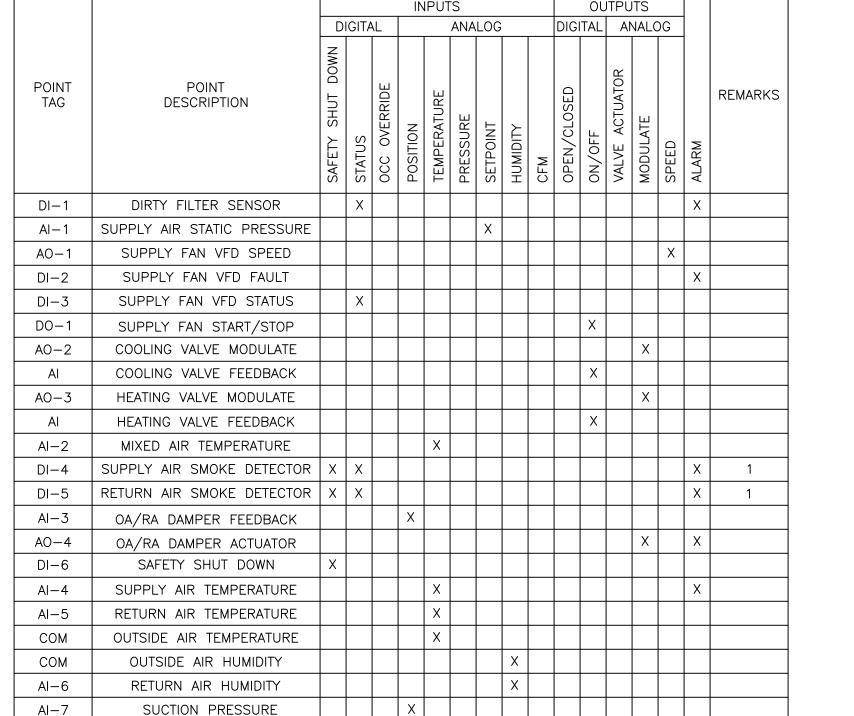
1. THERE ARE 4 POSSIBLE HVAC MODES OF OPERATION:

- 1. COOLING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SENSOR RISES ONE DEADBAND ABOVE THE COOLING SETPOINT. COOLING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE FALLS ONE DEGREE DEADBAND BELOW THE COOLING
- 2. IN THE COOLING MODE, AS THE SUPPLY AIR TEMPERATURE RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), THE COOLING CHILLED WATER VALVE WILL BEGIN TO MODULATE OPEN TO THE COIL.
- 3. MECHANICAL COOLING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) FALLS 1° BELOW THE COOLING LOCKOUT SETPOINT AND WILL REMAIN DISABLED UNTIL THE OAT RISES 1° ABOVE THE COOLING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL COOLING WHILE IT IS CURRENTLY OPERATING, MECHANICAL COOLING WILL STAGE OFF. 4. IF THE ECONOMIZER IS ENABLED IT WILL FUNCTION AS THE FIRST STAGE OF COOLING.
- D. HEATING MODE WITH MODULATING HOT WATER HEAT 1. HEATING IS ENABLED WHEN THE TEMPERATURE AT THE MODE ENABLE SENSOR FALLS ONE DEADBAND BELOW THE HEATING SETPOINT. HEATING IS DISABLED WHEN THE MODE ENABLE TEMPERATURE RISES ONE DEGREE DEADBAND ABOVE THE HEATING
- 2. IN THE HEATING MODE, AS THE SUPPLY AIR TEMPERATURE FALLS BELOW THE ACTIVE SUPPLY AIR HEATING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), THE HEATING HOT WATER VALVE WILL BEGIN TO MODULATE OPEN TO THE COIL.
- 3. MECHANICAL HEATING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) RISES 1° ABOVE THE HEATING LOCKOUT SETPOINT AND WILL REMAIN DISABLED UNTIL THE OAT FALLS 1° BELOW THE HEATING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL HEATING WHILE IT IS CURRENTLY OPERATING, MECHANICAL HEATING WILL STAGE OFF.
- E. VENTILATION MODE: THIS MODE IS GENERATED ANYTIME THERE IS NO DEMAND FOR HEATING OR COOLING.
- F. OFF MODE

SETPOINT.

- 1. OFF MODE OCCURS IN THE UNOCCUPIED MODE.

- 2. THE SUPPLY FAN IS OFF AND THE OUTSIDE AIR DAMPER IS CLOSED.



1. SMOKE DETECTOR FURNISHED BY EC, MC TO HARDWIRE TO UNIT FOR UNIT SHUTDOWN

- L. SUPPLY AIR DUCT STATIC PRESSURE CONTROL
- 1. THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND SHALL MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT OF 1.5 IN WC (ADJ.). THE SUPPLY FAN VFD SPEED SHALL NOT DROP BELOW 30% (ADJ.) OF BALANCED 100% AIRFLOW.

REMOVE ROOFTOP UNIT CONTROLLER AND

WITH OWNER.

INSTALL NEW CONTROLLERS IN CONTROLS LOOP.

1. ENABLED WHEN OUTDOOR AIR (OA) DEWPOINT TEMPERATURE FALLS BELOW THE ECONOMIZER ENABLE SETPOINT BY 1 DEG F AND

2. ECONOMIZER OPERATION IS DISABLED WHEN THE OA TEMPERATURE RISES 1 DEG F ABOVE THE ECONOMIZER ENABLE SETPOINT OR

5. ECONOMIZER DAMPER IS CLOSED DURING UNOCCUPIED MODE, EXCEPT WHEN UNOCCUPIED FREE COOLING IS USED DURING NIGHT

1. IN VAV OPERATION, THE SUPPLY FAN VFD IS MODULATED TO MAINTAIN THE SUPPLY DUCT PRESSURE SETPOINT WHILE HEATING OR

2. THE VAV UNIT CONTROLLER SHALL POLL THE VAV TERMINAL UNITS TO DETERMINE WHETHER HEATING OR COOLING MODE IS ACTIVE.

3. IN THE COOLING MODE THE CHILLED WATER VALVE WILL MODULATE TO MAINTAIN THE COOLING LEAVING AIR SETPOINT (55 DEG F,

4. IN THE HEATING MODE THE HOT WATER VALVE WILL MODULATE TO MAINTAIN THE HEATING LEAVING AIR SETPOINT (55 DEG F, ADJ.).

1. OCCUPIED MODE — SUPPLY FAN SHALL BE CONFIGURED TO RUN CONTINUOUSLY. THE UNIT SHALL CONTROL THE SUPPLY FAN

3. SUPPLY FAN SHALL CYCLE WITH ALL LOADS. ANYTIME THE FANS ARE REQUESTED TO START, A 1 MINUTE MINIMUM OFF TIMER

4. WHEN ENTERING UNOCCUPIED MODE THE SUPPLY FAN IS HELD ON FOR 2 MINUTES AFTER THE LAST STAGE OF HEATING OR

1. ON OCCUPIED DAYS THE SYSTEM WILL INITIATE EARLY START CYCLE, WITH 100% AIRFLOW, 1/2 HOUR BEFORE SCHEDULED

OCCUPANCY. THE PROCESS WILL INITIATE SUPPLY FAN AND HEATING OR COOLING COIL VALVE (OPEN TO COIL) TO REACH OCCUPIED SETPOINT WITHOUT OUTDOOR AIR DAMPER OPEN. FREEZE PROTECTION WILL BE ACTIVE DURING THIS OPERATION.

1. WHEN THE UNIT IS OPERATING IN OCCUPIED MODE, THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND

SEQUENCE THE ECONOMIZER, MECHANICAL COOLING, AND HEATING TO MAINTAIN DISCHARGE AIR SETPOINT. THE BMS SHALL POLL ALL OF THE ZONE TERMINAL UNITS AND RESET THE DISCHARGE AIR TEMPERATURE BASED ON THE CRITICAL ZONE. THE MAXIMUM SUPPLY AIR TEMPERATURE RESET SETPOINT SHALL BE LIMITED TO 60F (ADJ.), THE MINIMUM RESET TEMPERATURE SHALL BE 52F (ADJ). THE BMS SHALL INCLUDE A USER OVERRIDE TO IGNORE THE RESET SEQUENCE AND SPECIFY A SPECIFIC DISCHARGE AIR

TEMPERATURE SETPOINT. ONCE THE SUPPLY AIR TEMPERATURE RESET SEQUENCE HAS REACHED MAXIMUM SETPOINT INDIVIDUAL VAV

MUST BE SATISFIED. IF THE TIMER IS SATISFIED THE FAN RELAYS ARE ACTIVATED WHILE ALL OTHER OUTPUTS ARE HELD OFF FOR

2. UNOCCUPIED MODE - IF ALL TERMINAL UNITS ARE IN UNOCCUPIED MODE AND THEIR ASSOCIATED SPACE TEMPERATURE

A PERIOD OF 1-2 MINUTES TO PURGE STAGNATE AIR FROM THE DUCTWORK BEFORE HEATING OR COOLING OCCURS.

REQUIREMENTS ARE MET THEN THE UNIT WILL BE INDEXED UNOCCUPIED AND WILL BE SHUTDOWN.

ECONOMIZER REACHES 100% AND THE SUPPLY AIR TEMPERATURE IS STILL ABOVE SETPOINT, MECHANICAL COOLING IS ALLOWED TO

3. ECONOMIZER ACTS AS THE FIRST STAGE OF COOLING AND CONTROLS TO THE ACTIVE SUPPLY AIR COOLING SETPOINT. IF THE

THE OA TEMPERATURE IS AT LEAST 5 DEG F BELOW THE RETURN AIR TEMPERATURE.

IF THE OA TEMPERATURE RISES 1 DEG F ABOVE THE RETURN AIR TEMPERATURE.

STAGE UP WHILE THE ECONOMIZER IS HELD AT THE FULL OPEN POSITION. 4. AN ECONOMIZER MINIMUM POSITION CAN BE CONFIGURED IN THE CONTROLLER.

COOLING IS MODULATED TO MAINTAIN THE LEAVING AIR SETPOINT.

SPEED TO MAINTAIN THE TARGET DUCT STATIC PRESSURE SETPOINT.

MAINTAIN CONTROLS LOOP OPERATION DURING REPLACEMENT - COORDINATE ANY DOWNTIME

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CONTROLLER

ONTROLLER

(TYP)

- M. HIGH STATIC SHUTDOWN: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A HIGH STATIC SHUTDOWN SIGNAL. ALARM SHALL BE RESET FROM FRONT END.
- N. LOW STATIC SHUTDOWN: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A HIGH STATIC SHUTDOWN SIGNAL. ALARM SHALL BE RESET FROM FRONT END.
- O. PROOF OF FLOW INTERLOCK

TERMINAL REHEAT COILS SHALL MODULATE TO PREVENT OVERCOOLING OF EACH SPACE.

- 1. PROOF OF FLOW SWITCHES SHALL BE INSTALLED TO PROVIDE 24 VAC WET CONTACT CLOSURE WHEN ASSOCIATED FAN IS
- 2. IF ONE OF THESE CONTACTS OPEN WHILE THE FAN IS BEING CALLED TO RUN, ALL HEATING AND COOLING IS DISABLED AND A FAN PROVING ALARM IS GENERATED.
- INDICATE A DIRTY FILTER STATUS. A DIRTY FILTER ALARM IS THEN GENERATED.

P. DIRTY FILTER STATUS: A DIFFERENTIAL PRESSURE SWITCH SHALL BE INSTALLED TO PROVIDE A 24 VAC WET CONTACT CLOSURE TO

- Q. EMERGENCY SHUTDOWN: A 24 VAC WET CONTACT SHALL BE USED WHEN A SHUTDOWN CONDITION OCCURS. IF THIS CONTACT OPENS, IT WILL INITIATE IMMEDIATE SHUTDOWN OF THE UNIT AND WILL GENERATE AN ALARM CONDITION.
- R. DUCT SMOKE DETECTION: DUCT SMOKE DETECTION SHALL BE INTEGRATED TO THE NEW CONTROLLER AS FOLLOWS: SMOKE DETECTOR CONTROL BY FIRE ALARM RELAY BY EC. ATC TO WIRE TO RELAY FOR SHUTDOWN AND FRONT END ALARM.
- S. TEMPERATURE PROTECTION
- 1. ACTIVATED WHEN THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE HIGH CUTOFF TEMPERATURE (IMMEDIATE) OR DROPS BELOW THE LOW CUTOFF TEMPERATURE (FOR 10 MINUTES) BOTH OF WHICH ARE USER ADJUSTABLE. THIS MODE SHUTS OFF THE UNIT (WITH A 3 MINUTE FAN OFF DELAY) UNTIL THE MODE IS CANCELED.
- 2. THIS MODE IS CANCELED WHEN THE SAT DROPS 10 DEGREES BELOW THE HIGH CUTOFF TEMPERATURE SETPOINT OR RISES 10 DEGREES ABOVE THE LOW TEMP CUTOFF TEMPERATURE SETPOINT, OR WHEN THE UNIT CHANGES BACK INTO OCCUPIED OPERATION.
- T. OUTDOOR AIR LOCKOUTS
- 1. MECHANICAL COOLING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE COOLING LOCKOUT SETPOINT (ADJ). 2. MECHANICAL HEATING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE THE HEATING LOCKOUT SETPOINT (ADJ).

SEQUENCE OF OPERATION EXHAUST FANS EF-1 AND EF-20:

A. THE BAS SHALL SEND THE CONTROLLER OCCUPIED AND UNOCCUPIED COMMANDS. THE BAS MAY ALSO SEND A PRIORITY SHUTDOWN

COMMAND. IF COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING ITS LOCAL SETPOINTS.

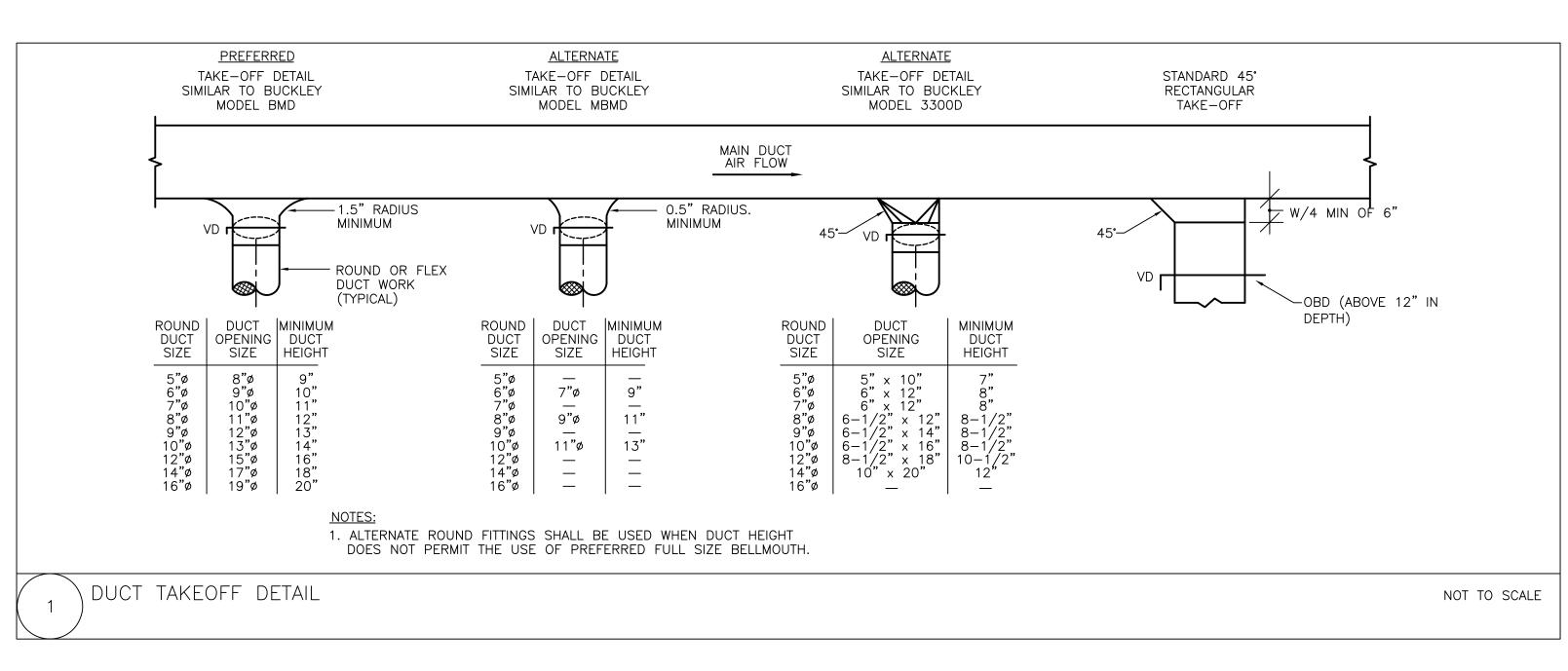
- B. OCCUPIED/UNOCCUPIED MODE: THE OCCUPANCY MODE SHALL BE COMMUNICATED OR HARDWIRED TO THE EF VIA A BINARY INPUT. WHEN THE SPACE IS SCHEDULED TO BE OCCUPIED, THE EF WILL TURN ON. WHEN THE SPACE IS SCHEDULED TO BE UNOCCUPIED, THE EF WILL TURN OFF. EF-1 AND EF-20 SHALL OPERATE WHENEVER RTU-12 OPERATES.
- C. THE CONTROLLER SHALL MONITOR THE STATUS OF THE EXHAUST FAN (VIA CS) AND GENERATE AN ALARM IF THE FAN FAILS TO RESPOND TO A START/STOP COMMAND.

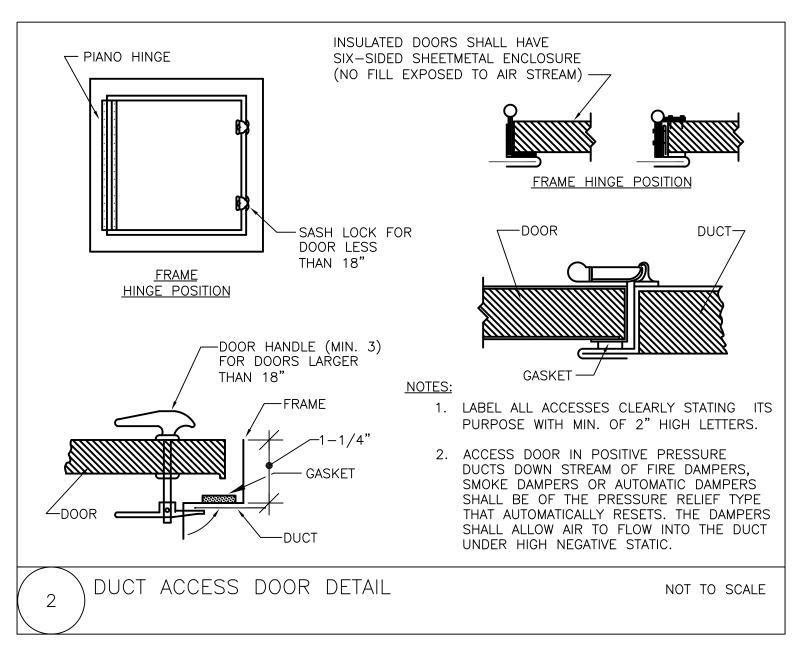
rtu-3 control diagram

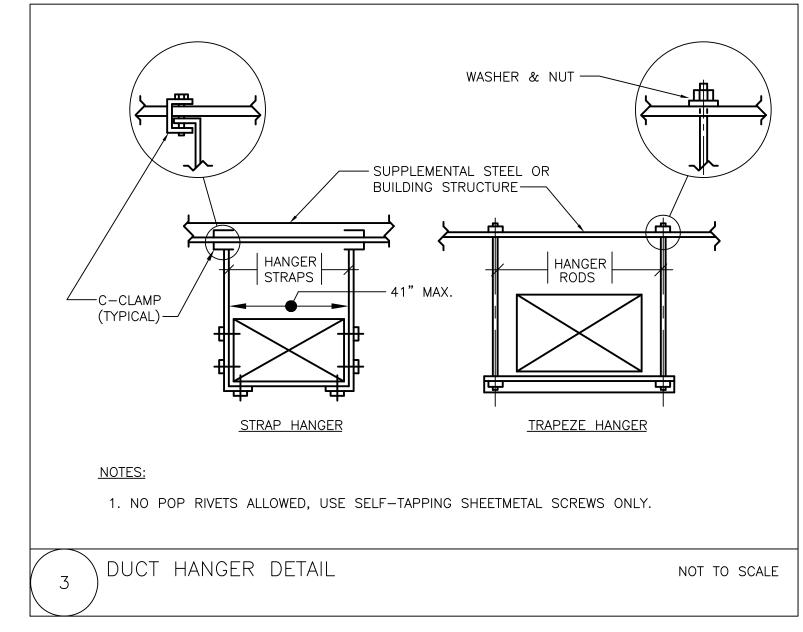
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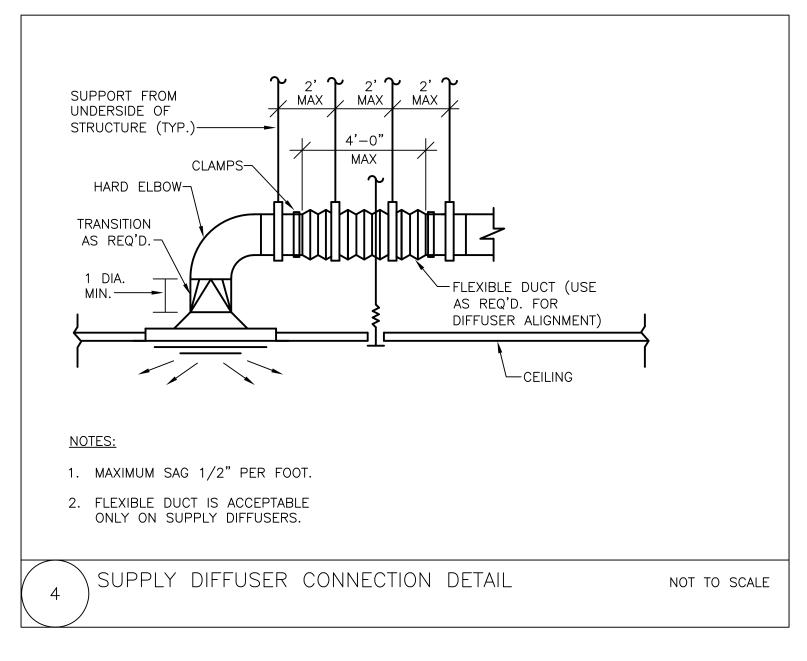
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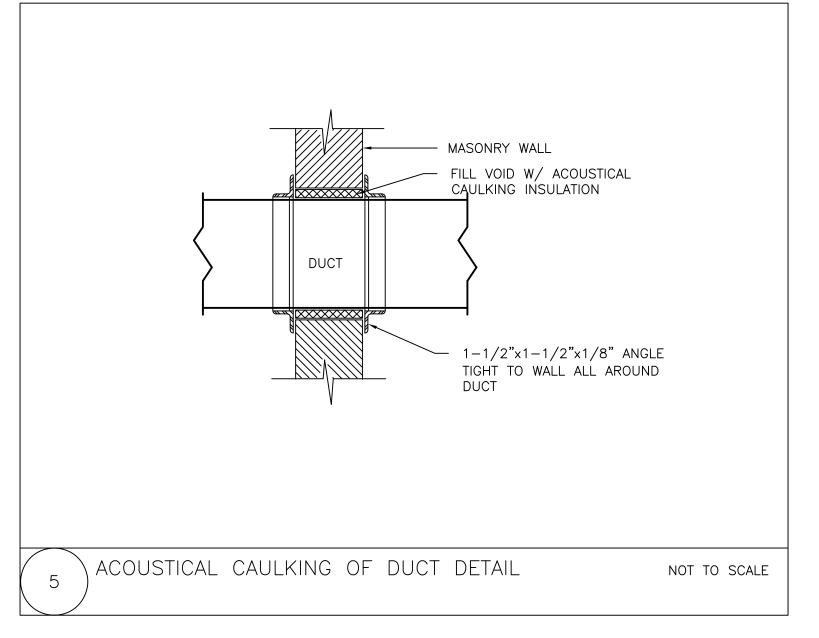
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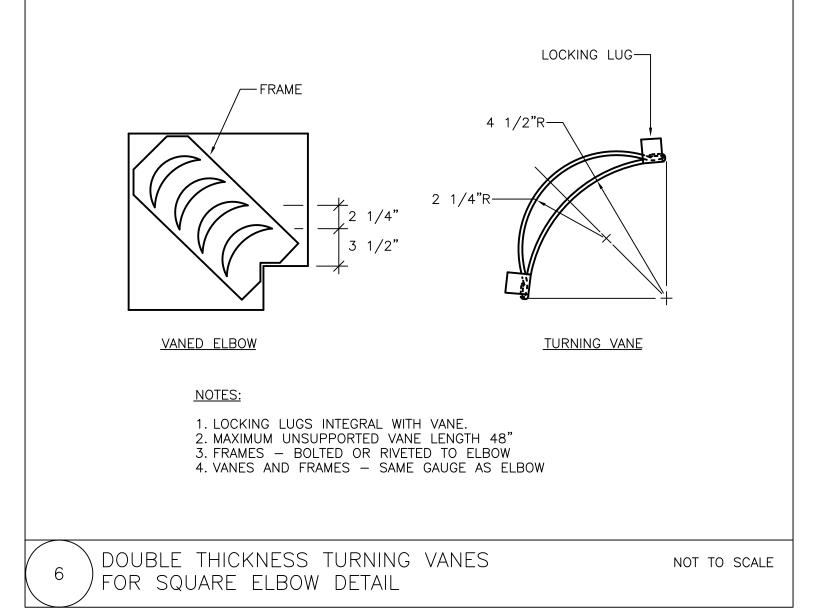


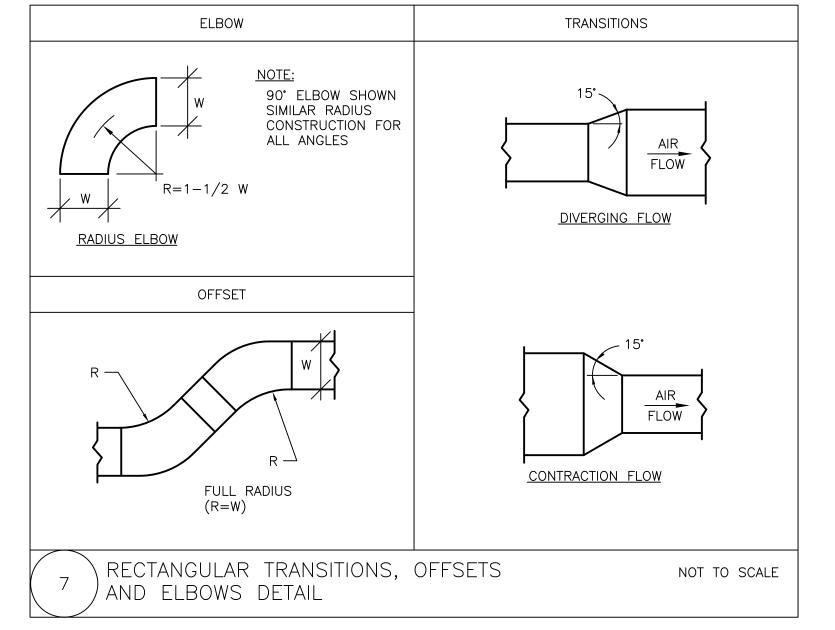


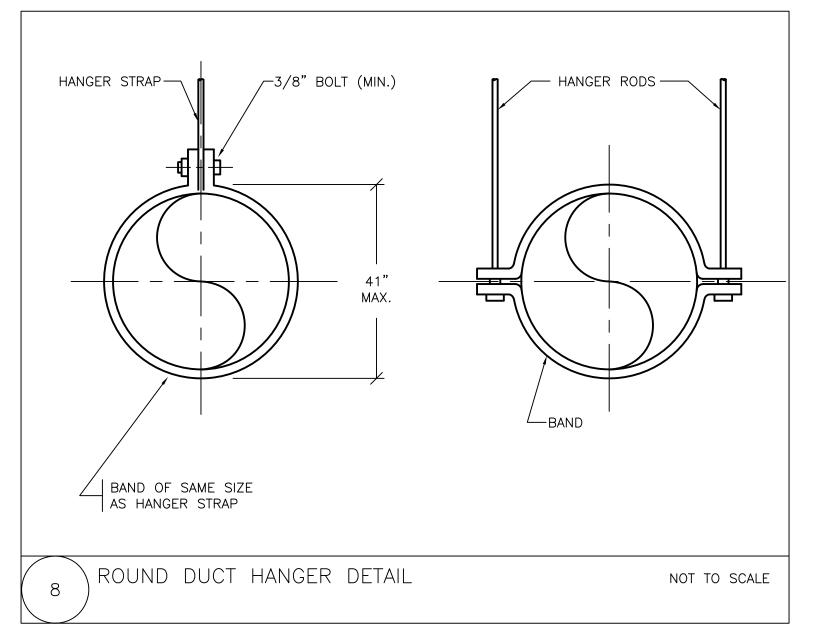


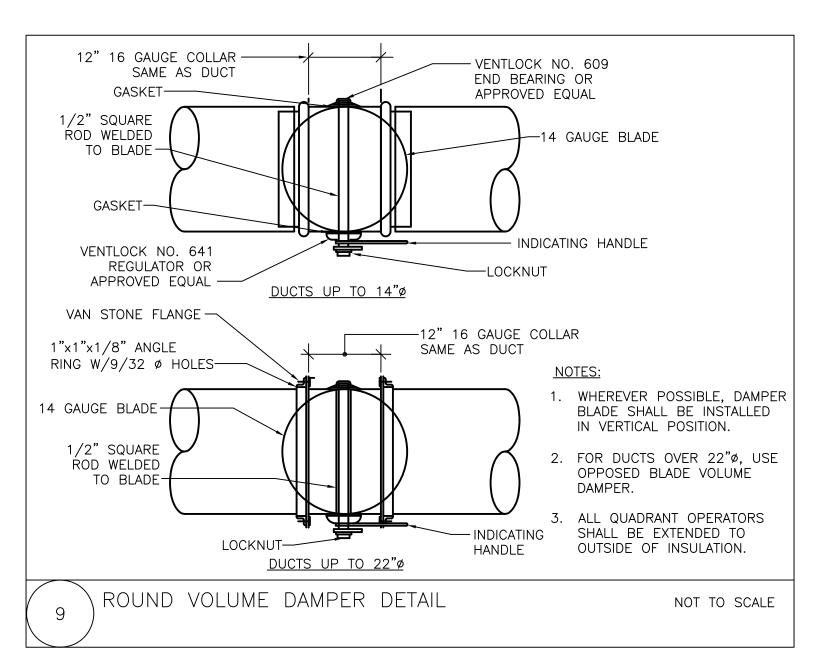


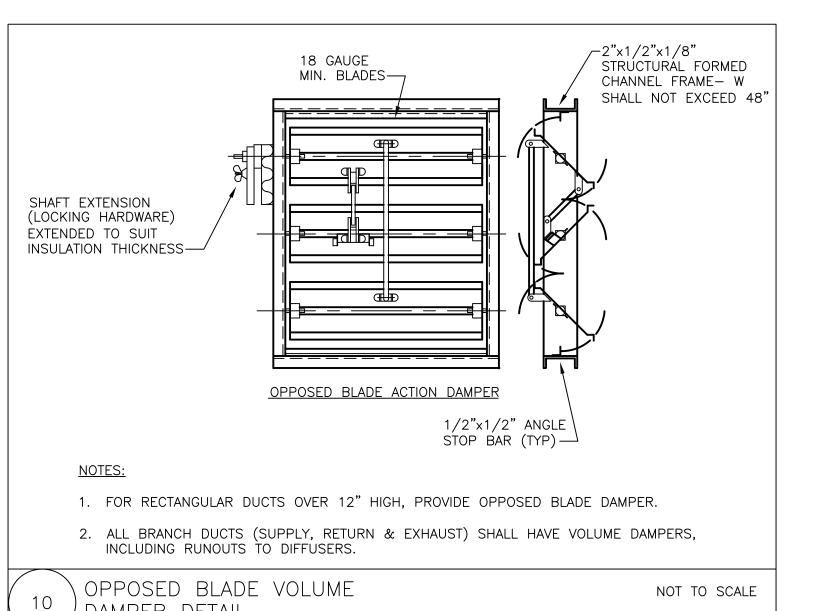




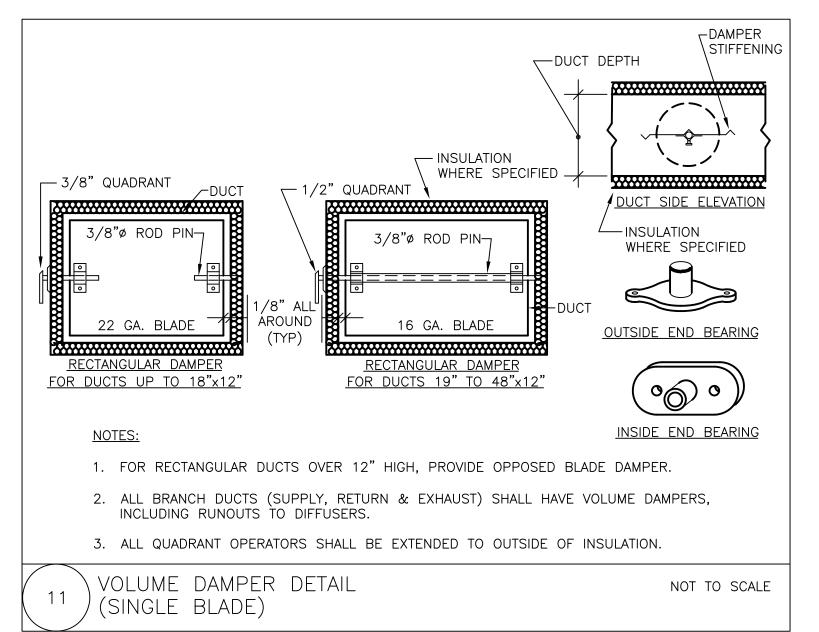


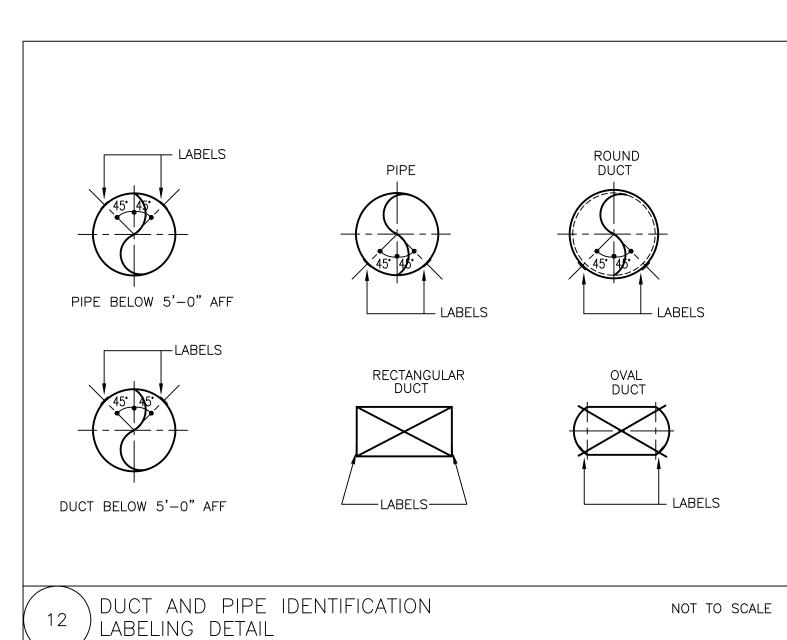


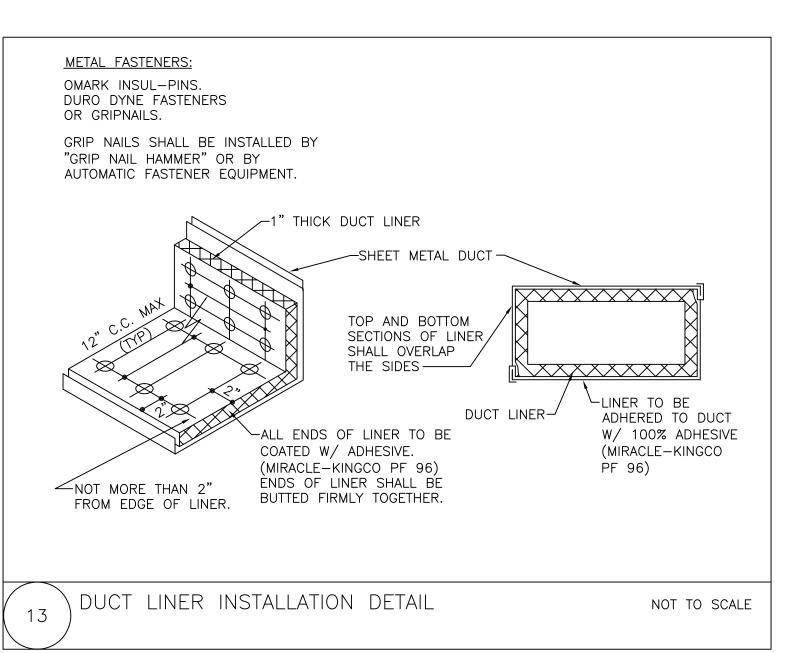


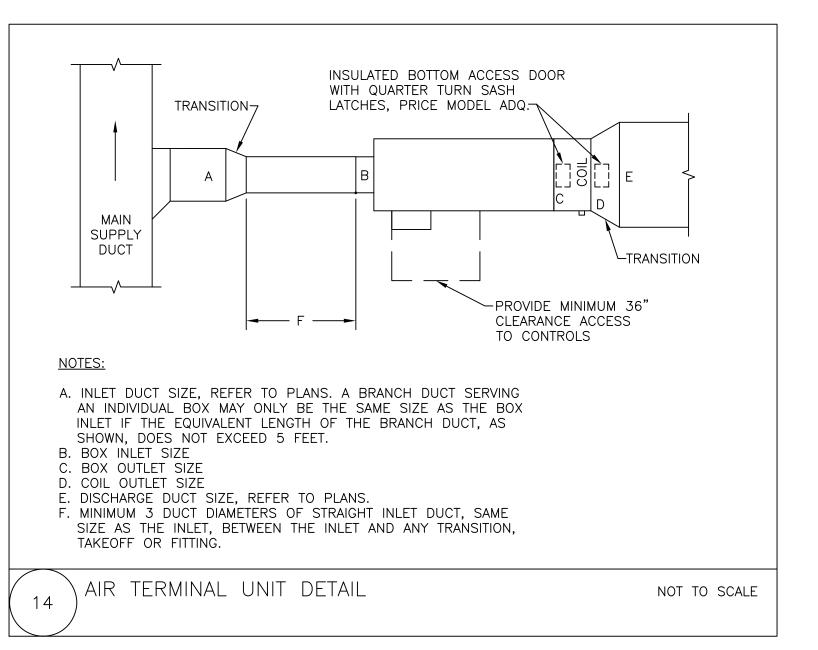


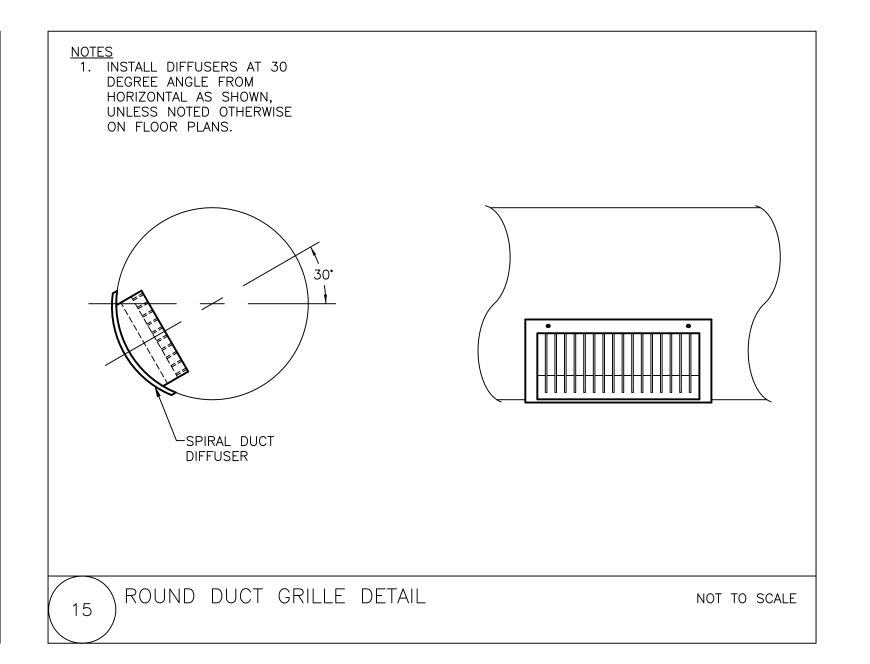
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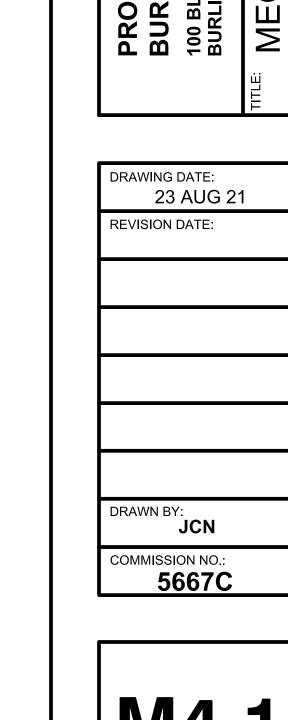








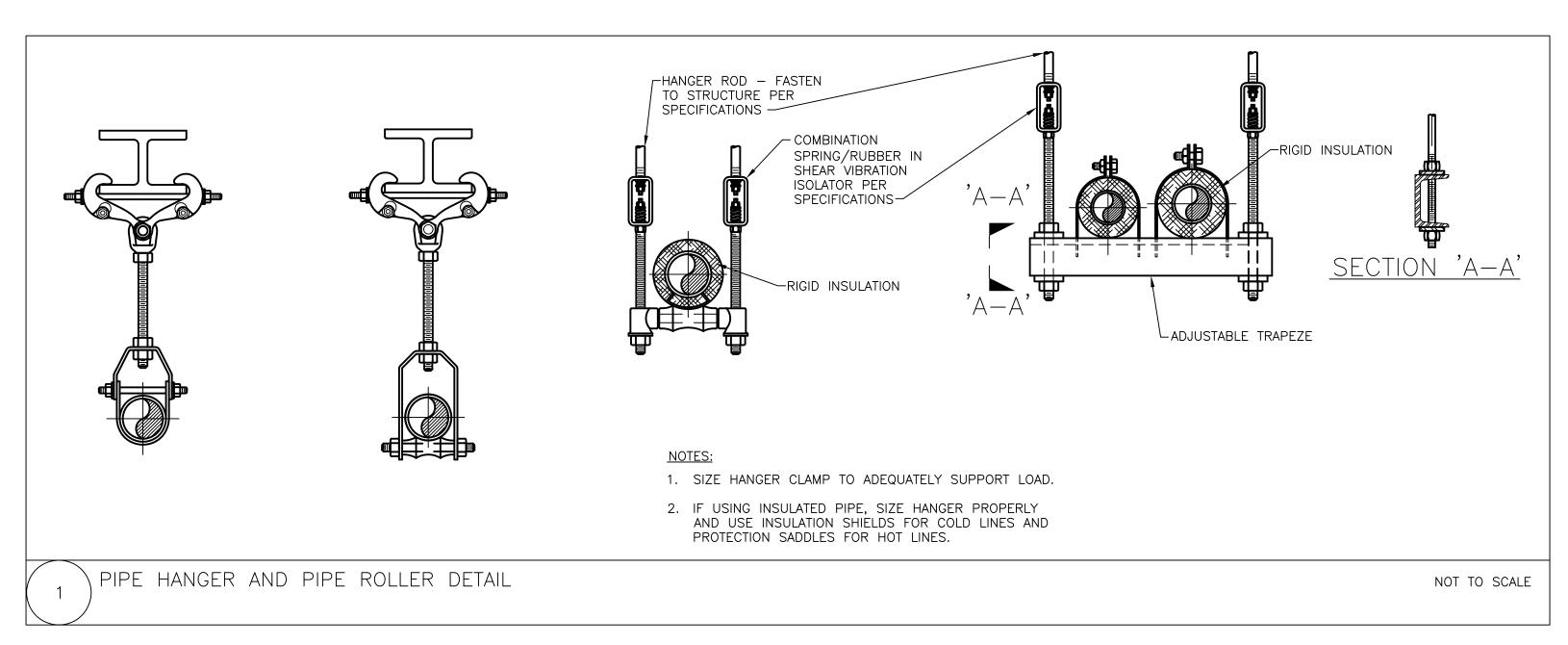


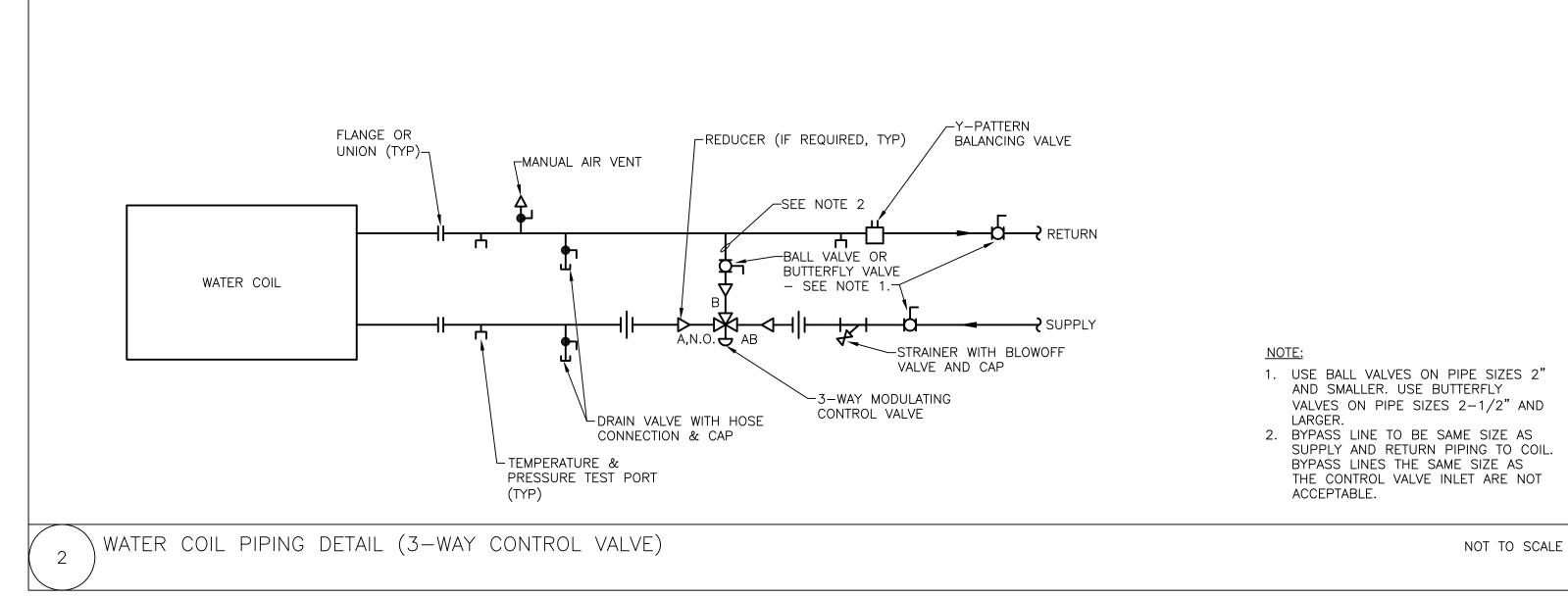


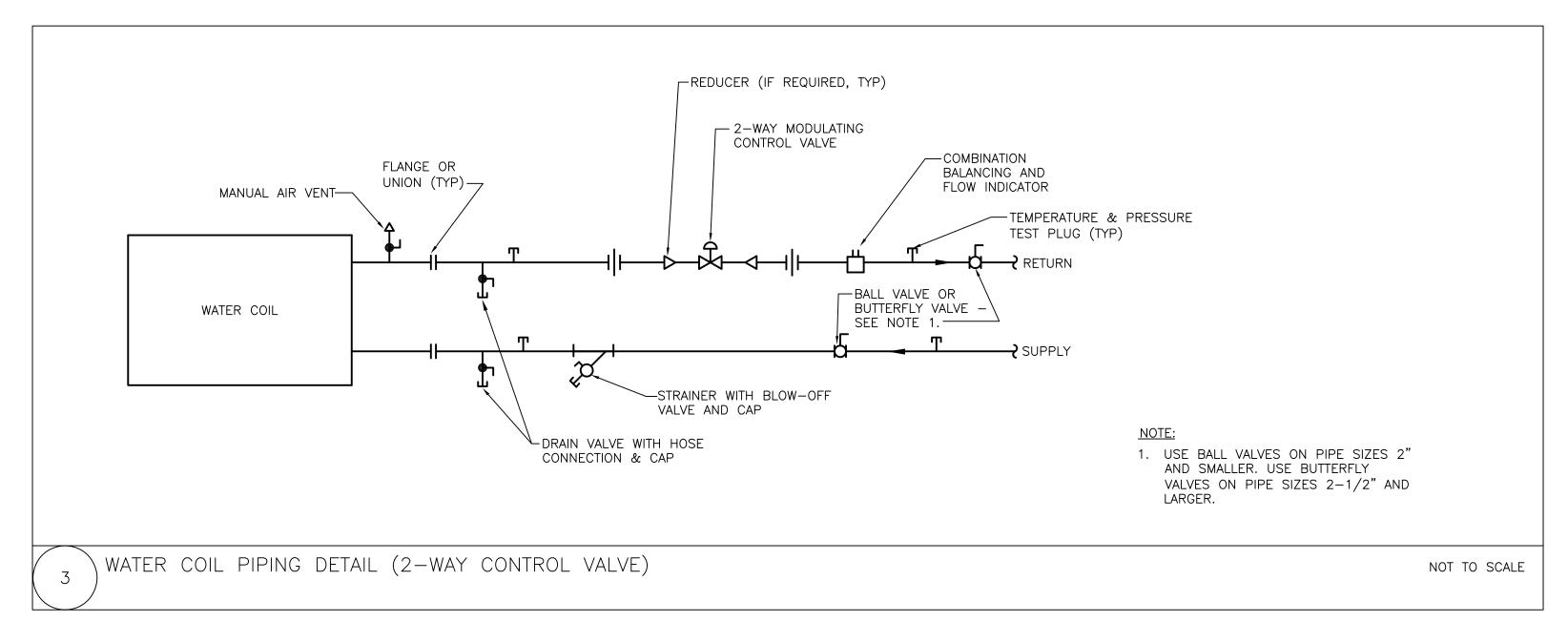
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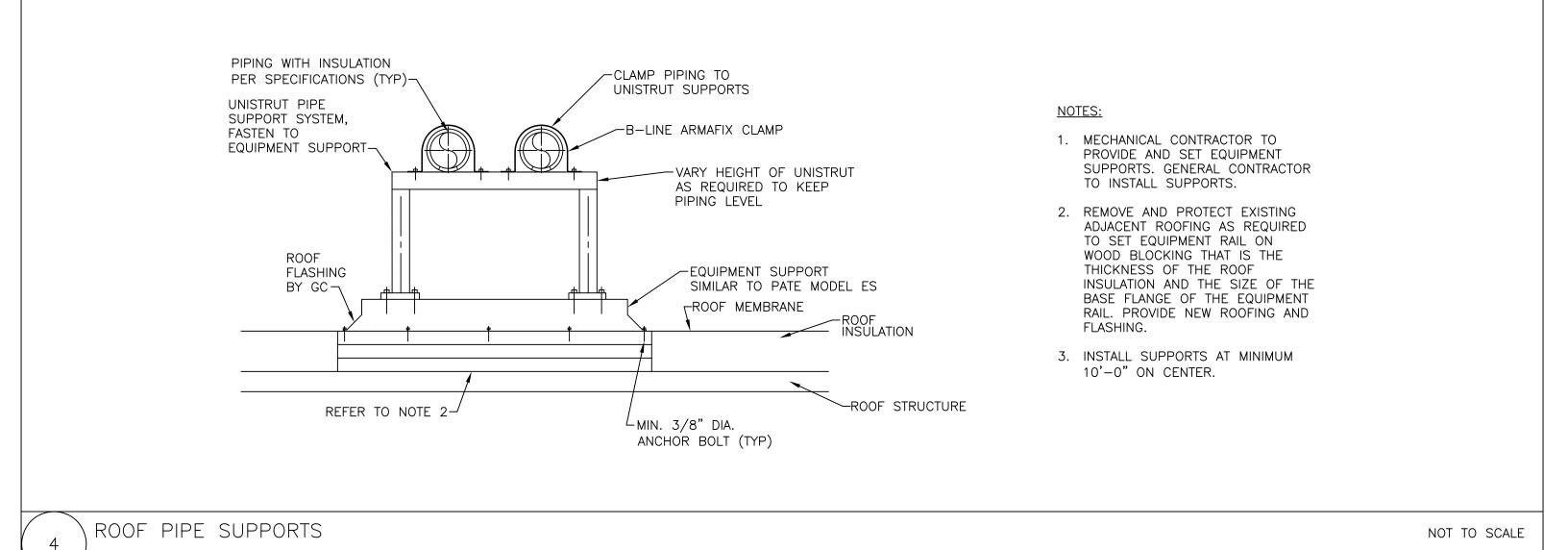
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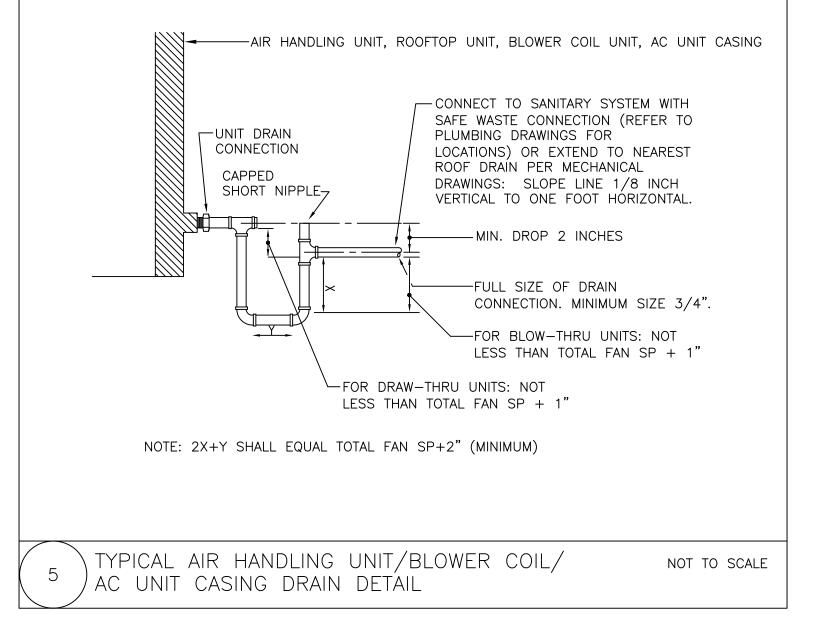
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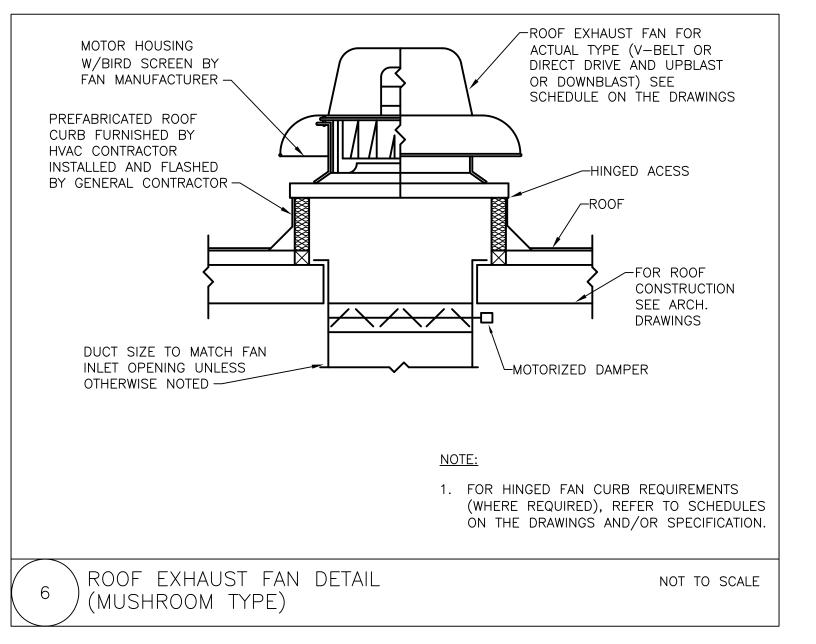


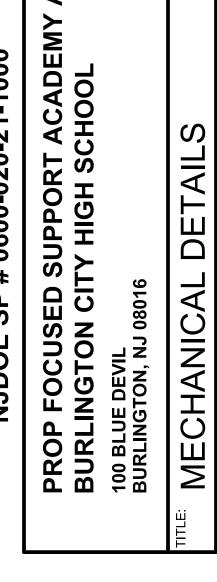












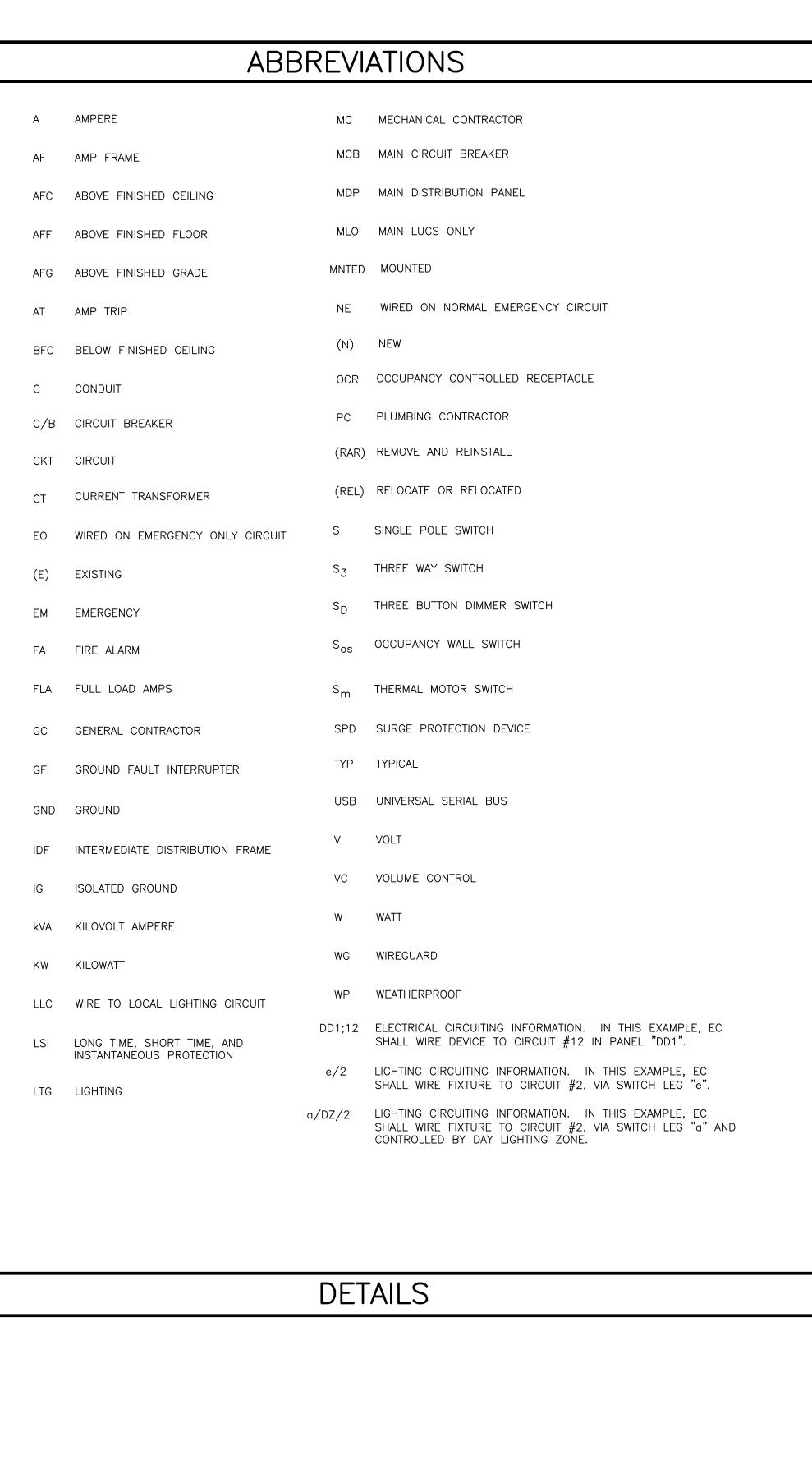
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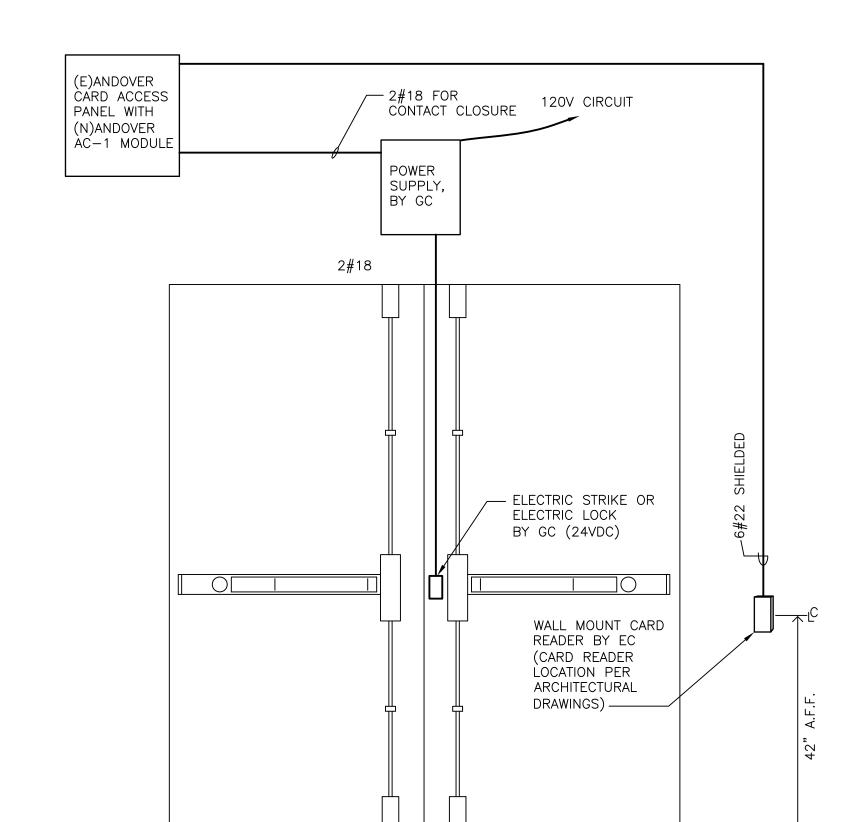
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DOOR ACCESS WIRING DIAGRAM

NEW ELECTRICAL PANEL

SPECIAL RECEPTACLE

JUNCTION BOX

DUPLEX CONVENIENCE RECEPTACLE WALL MOUNTED AT 18" AFF TO CENTER OF BOX.

QUAD CONVENIENCE RECEPTACLE WALL MOUNTED AT 18" AFF TO CENTER OF BOX.

SYMBOL LIST

INTERACTIVE PROJECTOR RECEPTACLE RECESSED MOUNTED ABOVE WHITEBOARD AT 8'-0". TO CENTER OF BOX

⇒USB DUPLEX CONVENIENCE RECEPTACLE WITH (2) USB CHARGING PORTS, WALL MOUNTED AT 18" AFF TO CENTER OF BOX, UNLESS OTHERWISE NOTED.

JUNCTION BOX FOR 120V SHADE MOTOR CONTROL. "x" INDICATES SHADE GROUP "x".

SHADE CONTROL SWITCH BY GC. "x" INDICATES CONTROL OVER SHADE GROUP "x". MOUNT AT 48" AFF TO TOP OF BOX. PROVIDE CAT6 CABLING FROM SWITCH TO SHADE CONTROLLER. FINAL WIRING PER MANUFACTURER'S WIRING DIAGRAMS.

DEMOLITION NOTES

FLOOR BOX WITH POWER AND DATA TO BE DEMOLISHED

WIRING & CONDUIT CONCEALED ABOVE HUNG CEILING

TURN FIXTURE ON TO FULL BRIGHTNESS.

O LED LIGHT

LUMINAIRE PROVIDING EMERGENCY ILLUMINATION. LOSS OF NORMAL POWER SHALL OVERRIDE LIGHTING CONTROL SYSTEM TO

EXIT SIGNS (CONTRACTOR TO COORDINATE # OF FACES AND THE FINAL MOUNTING REQUIREMENTS).

LIGHTING CONTROL INFORMATION. EC SHALL PROVIDE ALL PARTS AND PIECES TO CONTROL LIGHTS IN THE SPACES AS NOTED IN THE LIGHTING CONTROL SCHEDULE.

CEILING MOUNTED SENSOR AND ASSOCIATED POWER PACKS/ROOM CONTROLLERS. IN THIS EXAMPLE, SENSOR SHALL CONTROL FIXTURES ON

SWITCH LEG "a". OCCUPANCY OR VACANCY CONTROL DETERMINED BY LIGHTING CONTROL SCHEDULE ON DRAWING E1.1. WALL MOUNTED SENSOR AND ASSOCIATED POWER PACKS/ROOM CONCTROLLER. IN THIS EXAMPLE, SENSOR SHALL CONTROL FIXTURES ON

SWITCH LEG "a". OCCUPANCY OR VACANCY CONTROL DETERMINED BY LIGHTING CONTROL SCHEDULE ON DWG E1.1.

DAYLIGHT SENSOR

CEILING MOUNTED PARTITION SENSOR

LOCATION FOR PHONE AND DATA. (3) CAT6 RJ-45 DATA JACKS (2 FOR DATA AND 1 FOR PHONE) WITH BACKBOX, STAINLESS STEEL FACEPLATE AND CATEGORY 6 PLENUM RATED CABLE FOR EACH JACK TO NEAREST IDF/MDF PATCH PANELS LOCATION. MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. DATA JACKS INSTALLED IN DRYWALL SHALL HAVE RECESSED DOUBLE GANG BACKBOX WITH BUSHINGS AND CABLES CONCEALED IN DRYWALL. JACKS IN BLOCK/CONCRETE WALLS SHALL HAVE 1"C TO ABOVE FINISHED CEILING.

LOCATION FOR PHONE AND DATA. (3) CAT6 RJ-45 DATA JACKS WITH BACKBOX, STAINLESS STEEL FACEPLATE AND CATEGORY 6 PLENUM RATED CABLE FOR EACH JACK TO NEAREST IDF/MDF PATCH PANELS LOCATION. MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. DATA JACKS INSTALLED IN DRYWALL SHALL HAVE RECESSED DOUBLE GANG BACKBOX WITH BUSHINGS AND CABLES CONCEALED IN DRYWALL. JACKS IN BLOCK/CONCRETE WALLS SHALL HAVE 1"C TO ABOVE FINISHED CEILING.

LOCATION FOR DATA FOR TV. (1) CAT6 RJ-45 DATA JACK WITH BACKBOX, STAINLESS STEEL FACEPLATE AND CATEGORY 6 PLENUM RATED CABLE FOR EACH JACK TO NEAREST IDF/MDF PATCH PANELS LOCATION. MOUNTED AT 60" AFF UNLESS OTHERWISE NOTED. DATA JACKS INSTALLED IN DRYWALL SHALL HAVE RECESSED DOUBLE GANG BACKBOX WITH

BUSHINGS AND CABLES CONCEALED IN DRYWALL. JACKS IN BLOCK/CONCRETE WALLS SHALL HAVE 1"C TO ABOVE FINISHED CEILING.

PD INTERACTIVE PROJECTOR LOCATION FOR AV WIRING. PROVIDE 1-1/4" CONDUIT TO ABOVE FINISHED CEILING FOR OWNER'S AV WIRING TO TEACHER CONTROL STATION BACKBOX

TCD TEACHER CONTROL STATION FOR CONTROL OF INTERACTIVE PROJECTOR. PROVIDE DOUBLE GANG DOUBLE DEEP BACKBOX WITH 1-1/4"C TO ABOVE FINISHED CEILING. OWNER TO PROVIDE WIRING, JACKS AND FACEPLATE.

TELEPHONE JACK TO BE DEMOLISHED

CEILING MOUNT WIRELESS ACCESS POINT. WIRELESS ACCESS EQUIPMENT WILL BE PROVIDED AND INSTALLED BY OWNER. AT EACH LOCATION THERE SHALL BE (1) RJ-45 DATA JACK AND (1) CATEGORY 6 PLENUM RATED CABLE WITH 20' SERVICE LOOP FOR EACH JACK BACK TO NEAREST MDF/IDF RACK. MOUNT IN ACCESSIBLE AREA ABOVE FINISHED CEILING.

CCTV CAMERA. SEE RESPONSIBILITY CHART FOR WORK DELINEATION. PROVIDE (1) CATEGORY 6 PLENUM RATED CABLE WITH 20' SERVICE LOOP WITH MODULAR END

FOR EACH JACK BACK TO NEAREST MDF/IDF RACK.

PB PUSH BUTTON FOR EMERGENCY SHUT DOWN TO BE DEMOLISHED.

S CEILING MOUNTED SPEAKER

WALL MOUNTED RECESSED SPEAKER/CLOCK ASSEMBLY WITH NEW 12" WIRELESS ANALOG CLOCK AND NEW 8" ROUND 5W-25/70V SPEAKER OVERALL ENCLOSURE DIMENSIONS SHALL BE 26"W x 16"H x 3"D WITH ROUND SPEAKER GRILLE WITH BEZEL EQUAL TO LOWELL PC312 BACKBOX AND BP300 GRILLE. EC SHALL WIRE CLOCK TO 120V CLOCK CIRCUIT WITH SPACE. EC SHALL PROVIDE SPEAKER HOME RUN WIRING BACK TO PA SYSTEM HEAD END.

WALL MOUNTED ANALOG CLOCK

CEILING MOUNTED HORN TYPE SPEAKER TO BE DEMOLISHED

WALL MOUNTED HORN TYPE SPEAKER TO BE DEMOLISHED

DUCT DETECTOR.

RTS REMOTE TEST STATION

FIRE ALARM STROBE (CEILING MOUNT). PROVIDE NEW DEVICES COMPATIBLE WITH (E)SIMPLEX 4100U FIRE ALARM PANEL

FIRE ALARM HORN AND STROBE (CEILING MOUNT). PROVIDE NEW DEVICES COMPATIBLE WITH (E)SIMPLEX 4100U FIRE ALARM PANEL

SM FIRE ALARM STROBE (WALL MOUNT AT MIN 80" AFF OR MAX 96"AFF TO BOTTOM OF DEVICE).

FIG. FIRE ALARM HORM AND STROBE (WALL MOUNT AT MIN 80" AFF OR MAX 96"AFF TO BOTTOM OF DEVICE).

MANUAL PULL STATION. (WALL MOUNT AT 42" AFF).

SMOKE DETECTOR

HEAT DETECTOR

WALL MOUNTED CARD READER. EC TO PROVIDE BACKBOX MOUNTED AT 48" AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. WHERE CARD READERS ARE LOCATED OUTSIDE, EC SHALL PROVIDE WEATHER PROOF BACKBOX MOUNTED AT 48" AND 3/4" RGS CONDUIT TO INSIDE BUILDING ABOVE ACCESSIBLE CEILING.

DOOR HARDWARE POWER SUPPLY BY GC AND WIRED AND INSTALLED BY EC ABOVE ACCESSIBLE CEILING.

ES ELECTRIC STRIKE BY GC WIRED BY EC. PROVIDE 2#18 FROM STRIKE TO POWER SUPPLY

FLOOR BOX WITH POWER, DATA: 8" ROUND 6 GANG RECESSED CONCRETE FLOOR, HUBBELL WIRING DEVICES OR EQUAL: CFB6G30RCR + GFBS1R8CRVRXXX (COLOR BY ARCHITECT) + (2) FBMPREC +(3) FBMPBNK +(1) FBMP6KS. BOX SHALL HAVE (2) 20A DUPLEX USB RECEPTACLES, (3) RJ-45 JACKS WITH (3) CAT6 CABLES BACK TO THE CLOSEST MDF/IDF. 1" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR DATA CABLING.

THIS CHART SHALL SUPERSEDE ANY OTHER LOCATIONS DESCRIBING CONTRACTOR RESPONSIBILITIES. REFER TO SPECIFICATION 260000 FOR DISTRICT VENDORS THE ELECTRICAL CONTRACTOR IS REQUIRED TO HIRE.

PROVIDED BY	DEMOLISHED BY			120V POWER, BACKBOX		
	DEITIOLISITED DI	INSTALLED BY	LOW VOLTAGE WIRING BY	·	PROGRAMMING/ HEAD END TERMINATIONS	
ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	
OWNER	OWNER	OWNER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	OWNER	
OWNER'S VENDOR	OWNER	OWNER'S VENDOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	OWNER'S VENDOR	
ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	
ELECTRICAL CONTRACTOR	-	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	
OWNER	-	OWNER	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	OWNER	
OWNER	OWNER	OWNER	OWNER	ELECTRICAL CONTRACTOR	OWNER	
ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	
GENERAL CONTRACTOR	ELECTRICAL CONTRACTOR	GENERAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	-	
ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ELECTRICAL CONTRACTOR	
	OWNER OWNER'S VENDOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR OWNER OWNER ELECTRICAL CONTRACTOR GENERAL CONTRACTOR	OWNER OWNER'S VENDOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR OWNER OWNER OWNER CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR CONTRACTOR ELECTRICAL CONTRACTOR CONTRACTOR CONTRACTOR	OWNER OWNER OWNER OWNER'S VENDOR OWNER OWNER'S VENDOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR - ELECTRICAL CONTRACTOR OWNER - OWNER OWNER OWNER ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR GENERAL CONTRACTOR ELECTRICAL CONTRACTOR GENERAL CONTRACTOR	OWNER OWNER OWNER ELECTRICAL CONTRACTOR OWNER'S VENDOR OWNER OWNER'S VENDOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR - ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR OWNER - OWNER ELECTRICAL CONTRACTOR OWNER OWNER OWNER OWNER ELECTRICAL CONTRACTOR	OWNER OWNER OWNER ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR OWNER'S VENDOR OWNER OWNER'S VENDOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR - ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR OWNER - OWNER ELECTRICAL CONTRACTOR ELECTRICAL CONTRACTOR OWNER OWNER OWNER OWNER ELECTRICAL CONTRACTOR	

. FOR LOCATIONS OF ALL MECHANICAL EQUIPMENT REFER TO THE RESPECTIVE MECHANICAL DRAWINGS. FOR ALL POWER WIRING TO MECHANICAL EQUIPMENT REFER TO MOTOR WIRING SCHEDULE. ALL DEVICE LOCATIONS SUCH AS RECEPTACLE, DATA JACK, TV JACK, AND FLOOR OUTLETS, ETC., ARE APPROXIMATE. FINAL LOCATIONS AND MOUNTING HEIGHTS SHALL BE FIELD LOCATED BY THE ENGINEER. THE

GENERAL NOTES

3. ALL BRANCH WIRING SHALL BE 2#12+1#12GND. MINIMUM CONDUIT SIZE SHALL BE 3/4".

4. ALL LIGHTING WIRING FOR LED DIMMABLE LIGHTING BRANCH CIRCUITS SHALL BE 2#12+1#12GND +2#16 0-10V IN

CONTRACTOR SHALL INSTALL ALL DEVICES AT LOCATIONS AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL

3/4"C (ALL 600V RATED WIRING) OR MC-PCS CABLE WHERE ALLOWABLE IN THE SPECIFICATION. 5. EXACT LOCATIONS OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN THE FIELD WITH GENERAL

CONTRACTOR. ALL CLEARANCES AS REQUIRED BY ARTICLE 110 OF THE NEC SHALL BE MAINTAINED.

RECEPTACLES AND OTHER FLUSH MOUNTED DEVICES MOUNTED ON OPPOSITE SIDE OF SAME WALL MUST BE STAGGERED. USE OF BACK TO BACK BOXES IS NOT ACCEPTABLE.

7. FOLLOW DIMENSIONS, DO NOT SCALE DRAWINGS.

8. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES

9. ALL CONDUCTORS SHALL BE COPPER.

10. FIRE STOPPING: WHERE CONDUITS PENETRATE FIRE AND SMOKE BARRIERS INCLUDING WALLS. PARTITIONS. FLOORS, AND CEILINGS, INSTALL FIRE—STOPPING AT PENETRATIONS AFTER CABLES ARE INSTALLED.

1. MATERIALS FOR FIRE STOPPING SHALL BE UL LISTED AND LABELED AND FM APPROVED FOR FIRE RATINGS CONSISTENT WITH PENETRATED BARRIERS. SLEEVES SHALL BE SCHEDULE 40, WELDED, BLACK STEEL PIPE SLEEVES. SIZES AS REQUIRED FOR EQUIVALENT AREA AS THE WIREWAYS. SEALING FITTINGS SHALL BE SUITABLE FOR SEALING CABLES IN SLEEVES OR CORE DRILLED HOLES. TWO-PART SEALANT: FORMED-IN-PLACE SEALANT FIRE-RESISTANT JOINT SEALERS.

12. UNLESS OTHERWISE NOTED ALL INDOOR ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH, AND HOUSED IN, A NEMA 1 ENCLOSURE. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN NEMA 3R ENCLOSURE.

13. COMMON NEUTRALS ARE NOT ACCEPTABLE.

14. ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THEIR WORK TO AVOID INTERFERENCE WITH STRUCTURE, AND ALL EQUIPMENT ABOVE AND BELOW THE CEILING.

15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE PROCEEDING WITH THE

16. CONTRACTOR MUST COORDINATE ROOMS NAMES ON THE PANEL SCHEDULES WITH THE FINAL ROOM NAMES, IN THE

17. PROVIDE FIBER BUSHINGS ON THE ENDS OF ALL CONDUIT STUBS.

18. ALL SWITCHES, RECEPTACLES, PANELBOARDS AND DISCONNECTS SHALL BE LABELED WITH SOURCE PANEL AND

19. PROVIDE NEW PANEL TYPED PANEL SCHEDULES FOR ALL PANEL SCHEDULES WITH ALL NEW AND REVISED LOAD DESCRIPTIONS OF ALL BRANCH CIRCUITS THAT HAVE BEEN AFFECTED.

DEMOLITION NOTES

1. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO

2. DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT, AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.

PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER OPT TO KEEP ANY MATERIALS. THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE, AND BE DISPOSED OF IN A LEGAL MANNER.

4. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.

5. MAINTAIN EXISTING UTILITIES INDICATED OR WHERE REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES

6. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.

SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.

7. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.

8. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN TO PREVENT FAILURE. DO NOT

ENDANGER OTHER WORK. 9. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND

ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.

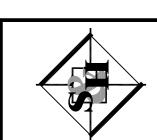
10. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED BY OTHERS. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY, THEY SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ENGINEER FOR DIRECTIONS.

11. EXTREME CARE SHALL BE EXERCISED FOR ALL EXISTING ITEMS THAT ARE TO REMAIN IN SERVICE UNTIL NEW ITEMS ARE INSTALLED FOR THE SAME SERVICE. ALL SHUTDOWNS OF ANY SYSTEM SHALL BE COORDINATED WITH THE OWNER.

12. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK

N.J. Professional Engineer GE45368

Richard L Delp



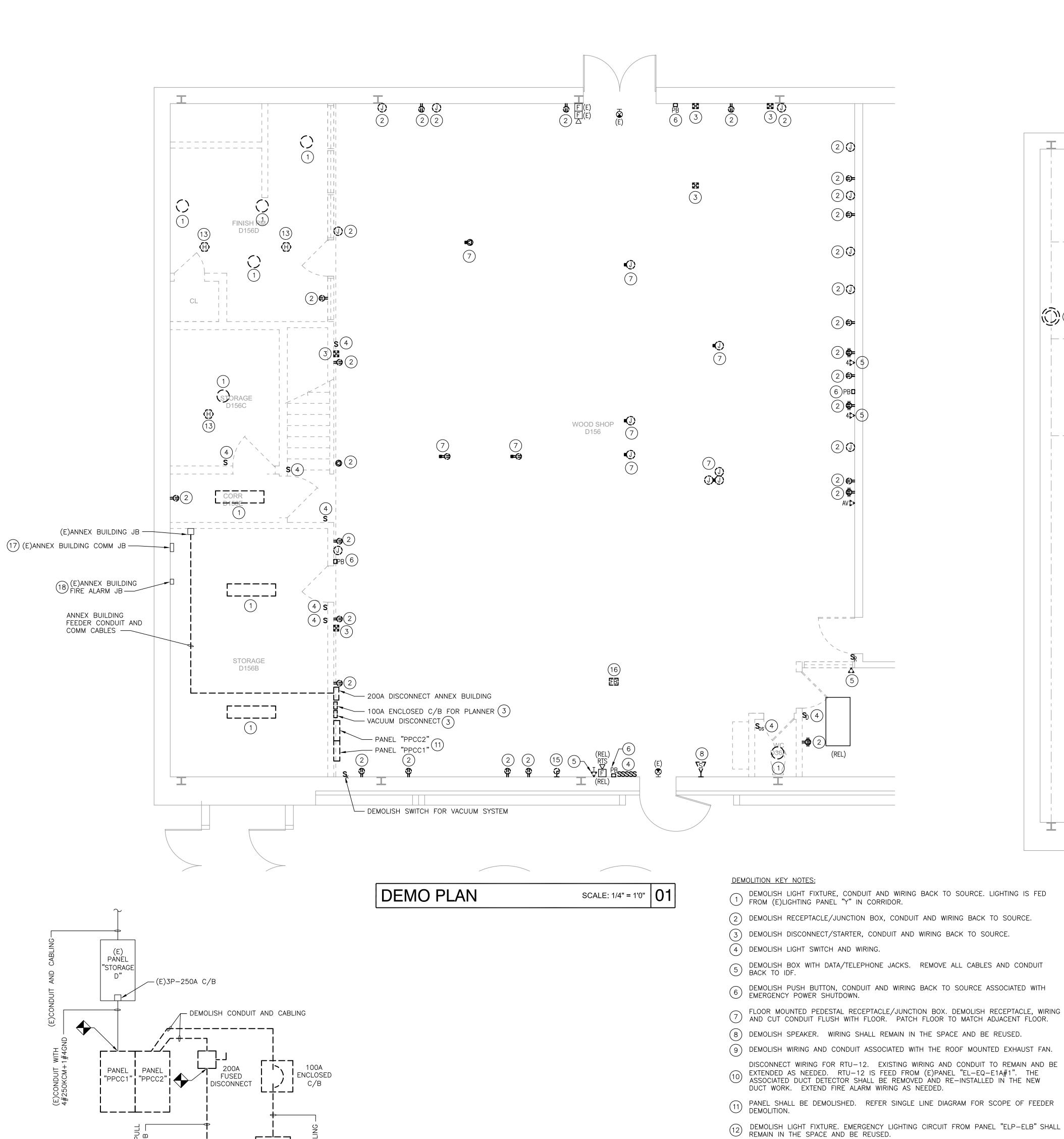
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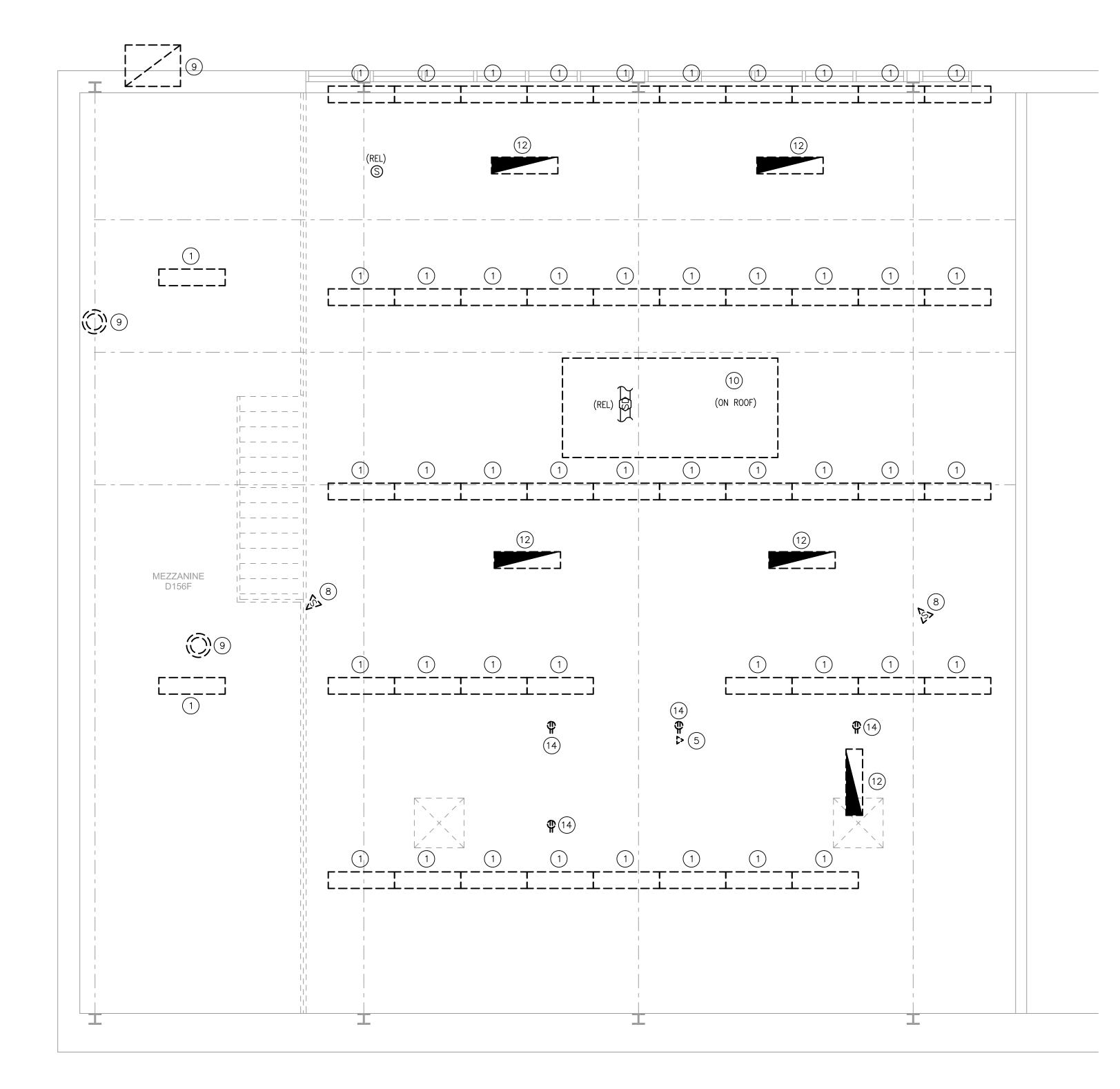
PLANER

NOT TO SCALE 03

PÀNÉL

annex"

DEMO SINGLE LINE DIAGRAM



(2) DEMOLISH RECEPTACLE/JUNCTION BOX, CONDUIT AND WIRING BACK TO SOURCE.

(3) DEMOLISH DISCONNECT/STARTER, CONDUIT AND WIRING BACK TO SOURCE.

6 DEMOLISH PUSH BUTTON, CONDUIT AND WIRING BACK TO SOURCE ASSOCIATED WITH EMERGENCY POWER SHUTDOWN.

FLOOR MOUNTED PEDESTAL RECEPTACLE/JUNCTION BOX. DEMOLISH RECEPTACLE, WIRING AND CUT CONDUIT FLUSH WITH FLOOR. PATCH FLOOR TO MATCH ADJACENT FLOOR.

9 DEMOLISH WIRING AND CONDUIT ASSOCIATED WITH THE ROOF MOUNTED EXHAUST FAN.

DISCONNECT WIRING FOR RTU-12. EXISTING WIRING AND CONDUIT TO REMAIN AND BE EXTENDED AS NEEDED. RTU-12 IS FEED FROM (E)PANEL "EL-EQ-E1A#1". THE ASSOCIATED DUCT DETECTOR SHALL BE REMOVED AND DE MOTALIES IN THE ASSOCIATED DUCT DETECTOR SHALL BE REMOVED AND RE-INSTALLED IN THE NEW

13) DEMOLISH HEAT DETECTOR.

(14) DEMOLISH RECEPTACLE AND CORD DROP, CONDUIT AND WIRING BACK TO SOURCE.

BACKBOX AND WIRING FOR CLOCK. DEMOLISH BACKBOX AND PATCH TO MATCH 15) ADJACENT AREA. MAINTAIN (E) CIRCUIT INTEGRITY AND REUSE EXISTING CIRCUIT TO

DEMOLISH FLOOR BOX, POWER AND DATA WIRING. CUT CONDUIT FLUSH WITH FLOOR. PATCH FLOOR TO MATCH ADJACENT FLOOR. EXISTING JUNCTION BOX TO ANNEX BUILDING WITH DATA AND INTERCOM WIRING.

DEMOLISH CONDUIT FROM JUNCTION BOX BACK TO CORRIDOR. PROVIDE NEW 1-1/2" CONDUIT FROM CORRIDOR BACK TO EXISTING JUNCTION TO ACCOMMODATE RENOVATIONS. DEMOLISH (5) CAT6 CABLES FROM ANNEX BUILDING TO IDF. PROVIDE NEW (5) CAT6 CABLES FROM IDF TO ANNEX BUILDING WITHIN EXISTING/NEW CONDUIT PATH. SPLICE AND EXTEND (2) INTERCOM CABLES TO ACCOMMODATE NEW CONDUIT ROUTING.

EXISTING JUNCTION BOX TO ANNEX BUILDING WITH 1 FPLP CABLE. DEMOLISH CONDUIT 18 FROM JUNCTION BOX BACK TO CORRIDOR. PROVIDE NEW 3/4" CONDUIT FROM CORRIDOR BACK TO EVICTING "INICITION TO CORRIDOR BACK TO EVICTION "INICITION TO CORRIDOR BACK TO EVICTION "INICITION "IN CORRIDOR BACK TO EXISTING JUNCTION TO ACCOMMODATE RENOVATIONS. SPLICE AND EXTEND 1 FPLP CABLE TO ACCOMMODATE NEW CONDUIT ROUTING.

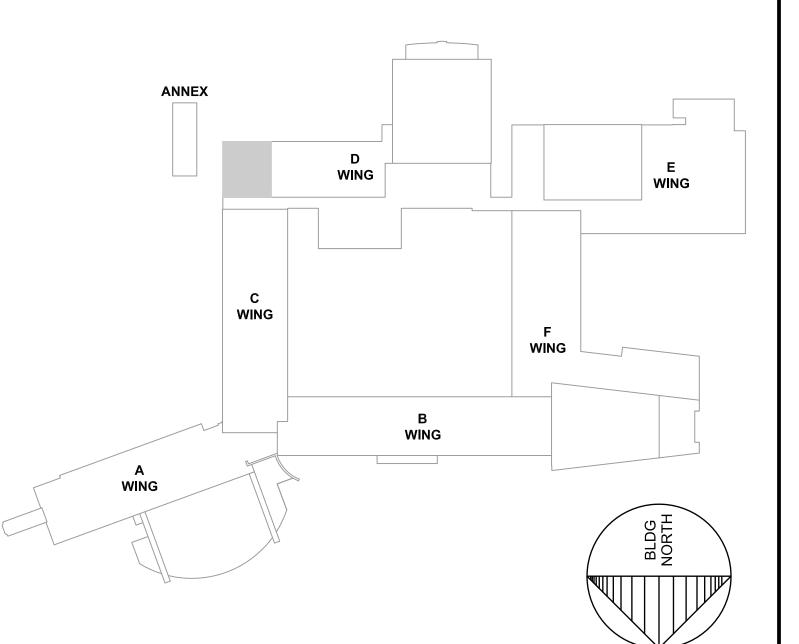
SCALE: 1/4" = 1'0" 02 DEMO MEZZ PLAN

1. REFER TO DRAWING EO.1 FOR LEGEND, ABBREVIATION, GENERAL NOTES.

2. ALL WORK SHOWN IS DEMOLISHED UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REPLACE (RAR), OR RELOCATED (REL).

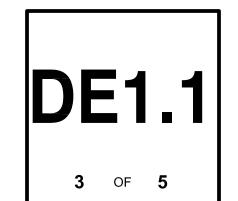
3. THERE IS AN EXISTING LIGHTNING PROTECTION SYSTEM ON THE ROOF. EACH PIECE OF MECHANICAL EQUIPMENT SHOWN TO BE DEMOLISHED SHALL BE REMOVED FROM THIS SYSTEM. CONTRACTOR SHALL CONTACT WARREN LIGHTNING ROD COMPANY TO DETERMINE REQUIREMENTS FOR REMOVING EQUIPMENT FROM THE SYSTEM TO CONFORM WITH NFPA 780. THE REMOVAL OF EXISTING DEVICES FROM THE EXISTING LIGHTNING PROTECTION SYSTEM SHALL BE DONE UNDER DIRECT SUPERVISION OF THE A LPI (LIGHTNING PROTECTION INSTITUTE) CERTIFIED "MASTER INSTALLER." REFER TO MECHANICAL DRAWINGS FOR ROOF MOUNTED DEMOLISHED EQUIPMENT LOCATIONS. THE SYSTEM SHALL BE RE-CERTIFIED AFTER ALL WORK HAS BEEN COMPLETED.

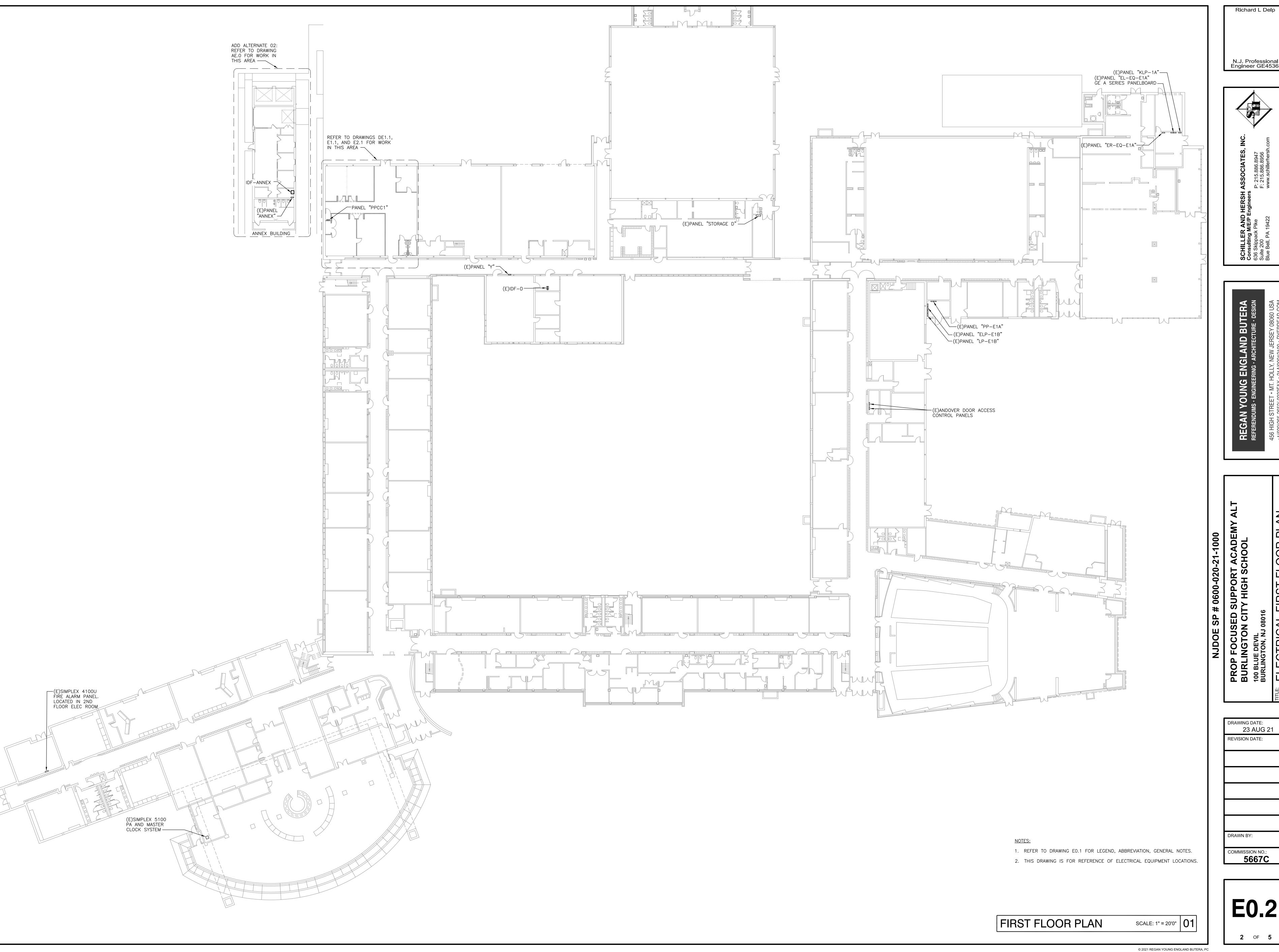
4. REFER TO MECHANICAL DEMOLITION DRAWINGS FOR COMPLETE SCOPE OF EQUIPMENT TO BE DEMOLISHED. EC SHALL REMOVE ALL WIRING, CONDUIT AND DISCONNECTS, MECHANICAL AND EQUIPMENT BACK TO SOURCE. REFER TO DRAWING E2.1 FOR WIRING THAT WILL REMAIN.

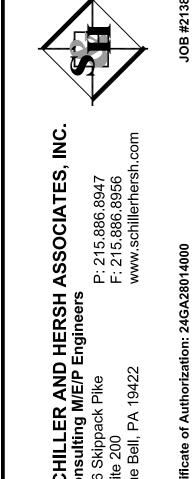


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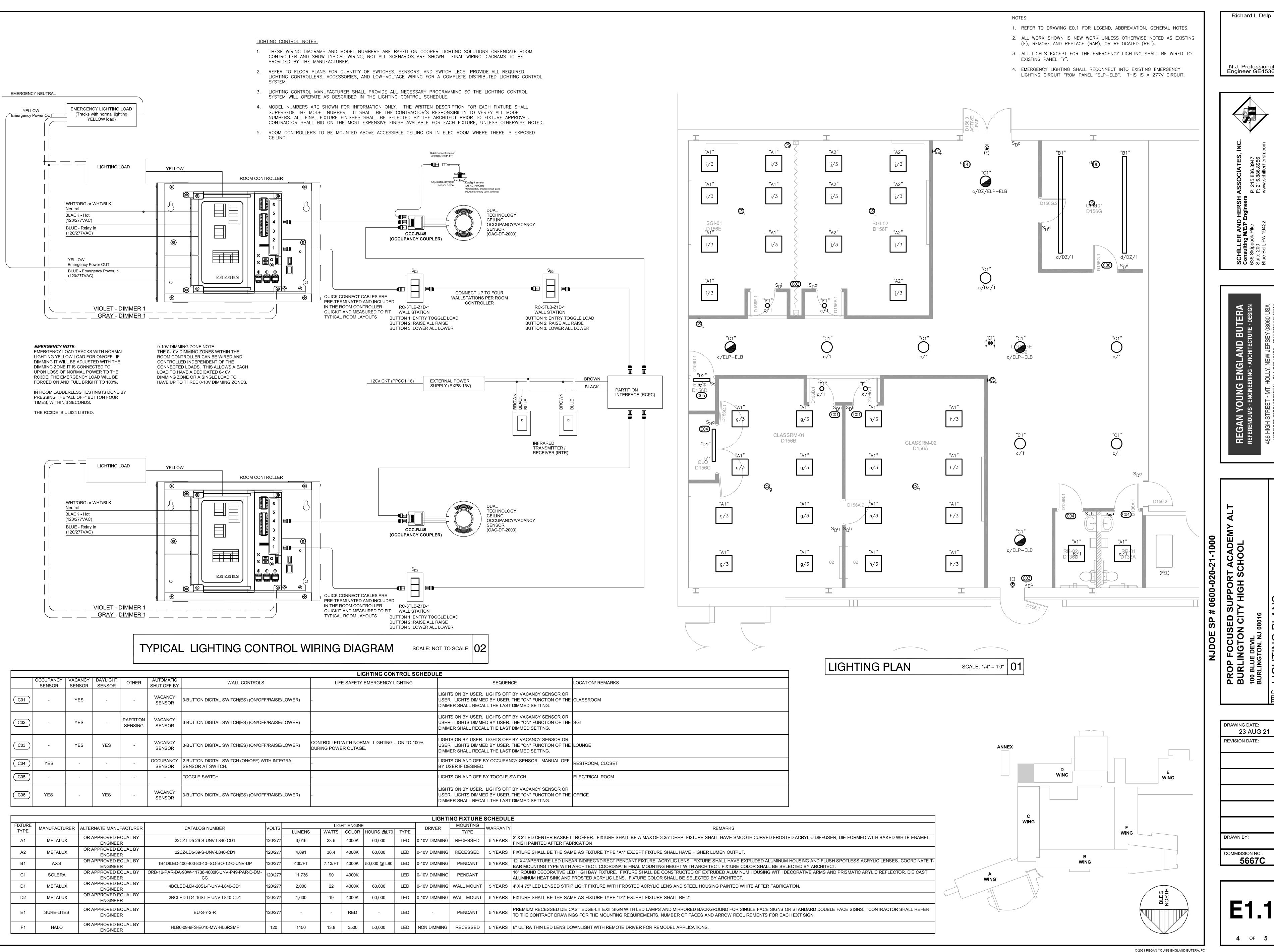






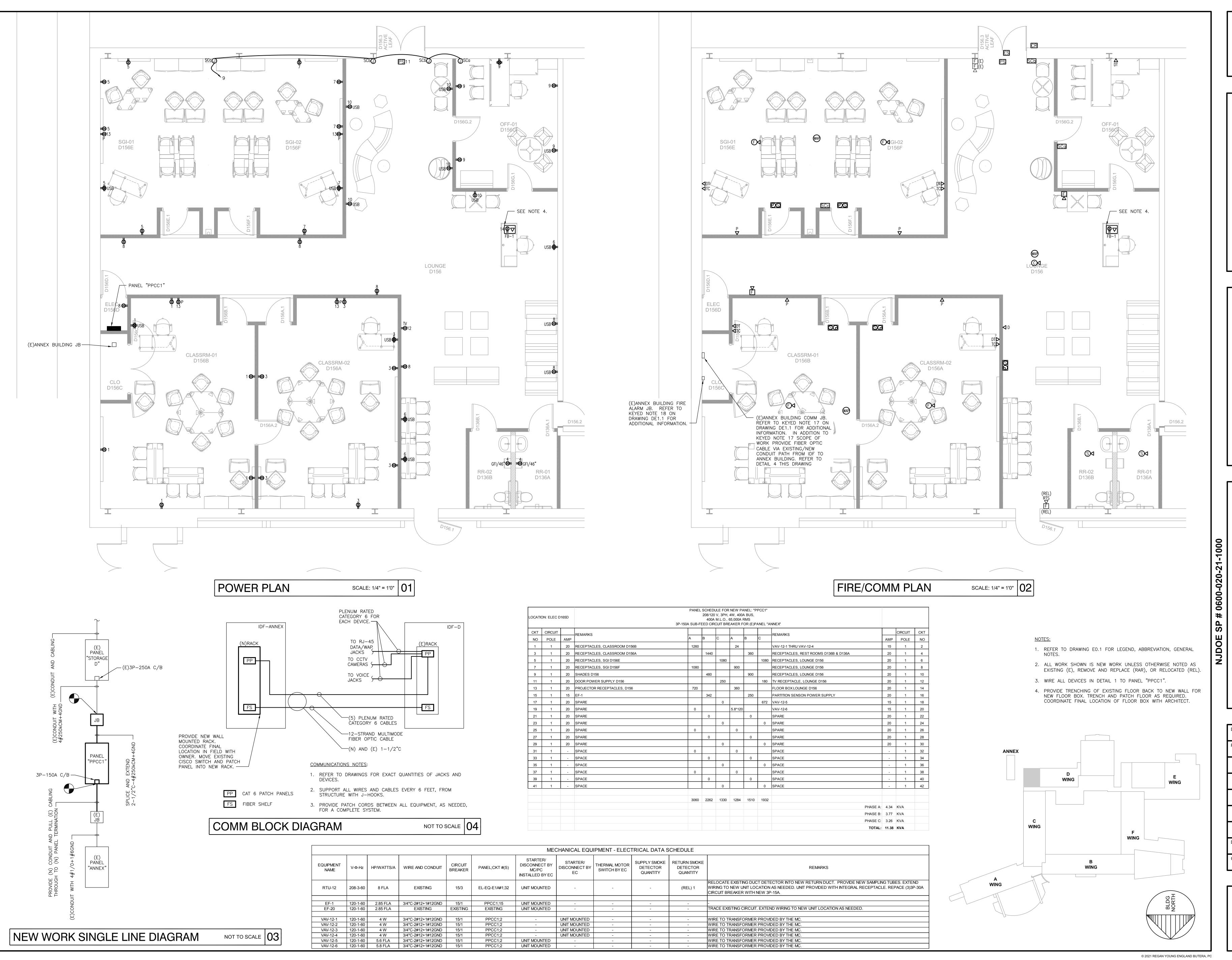
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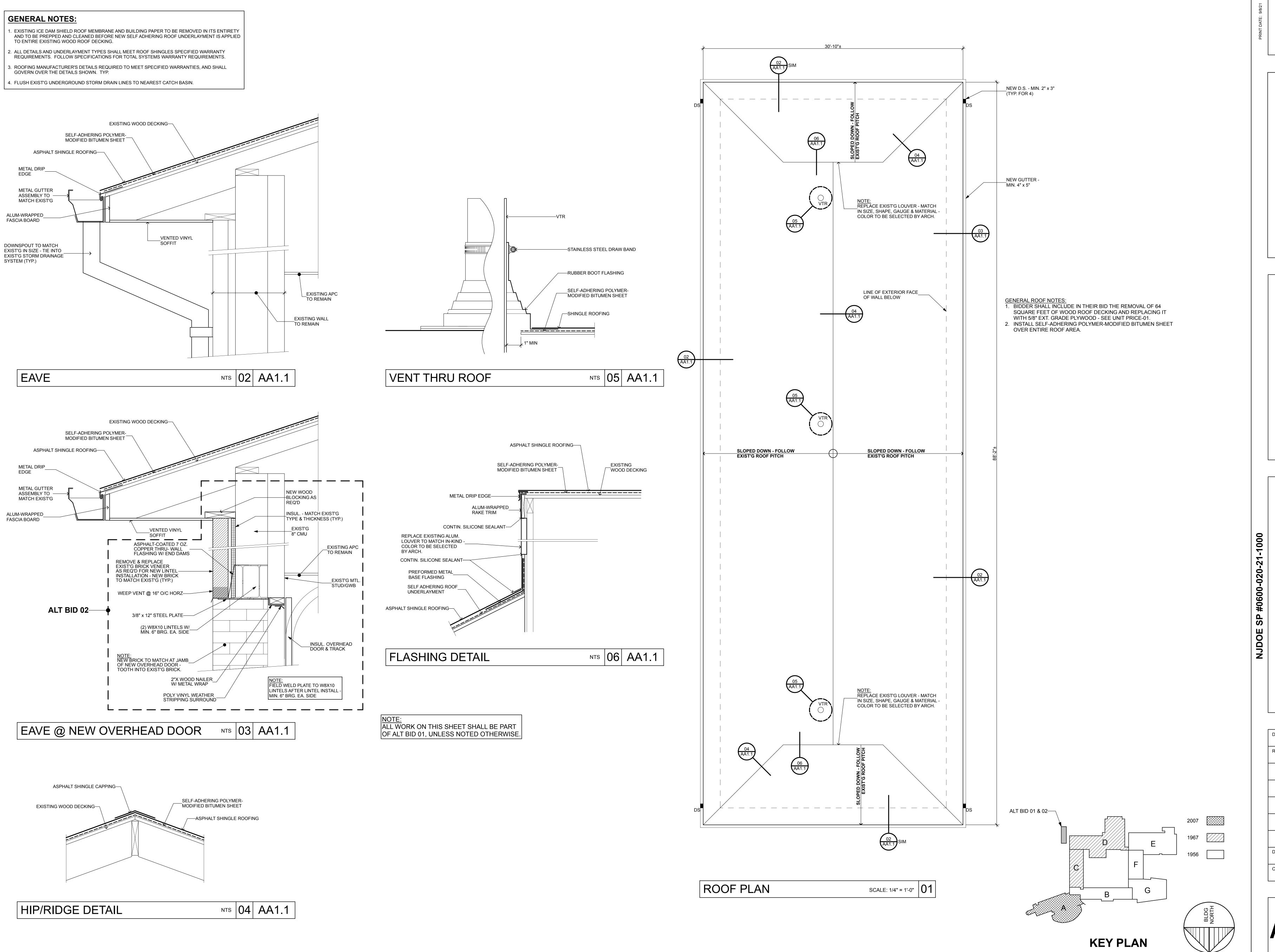


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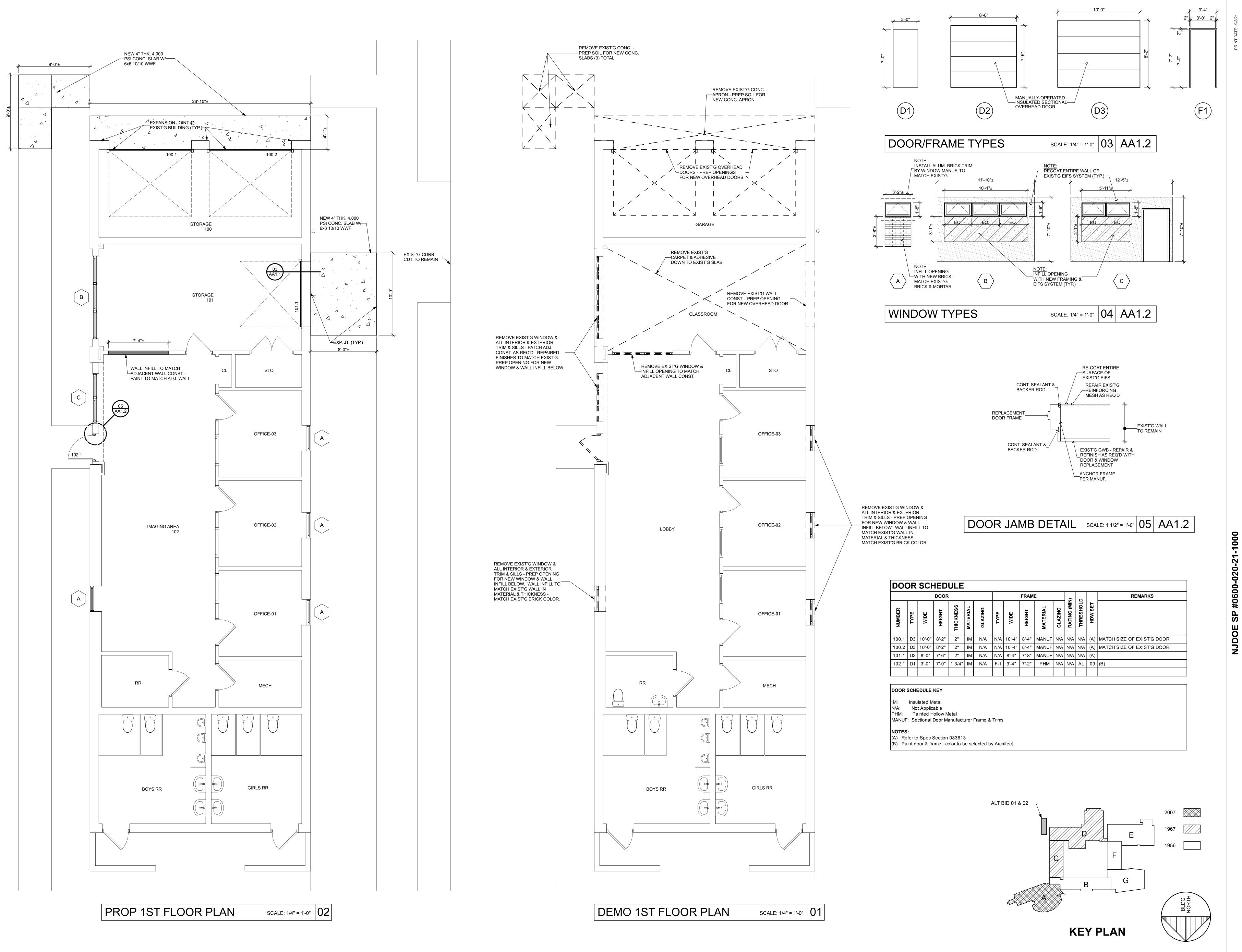
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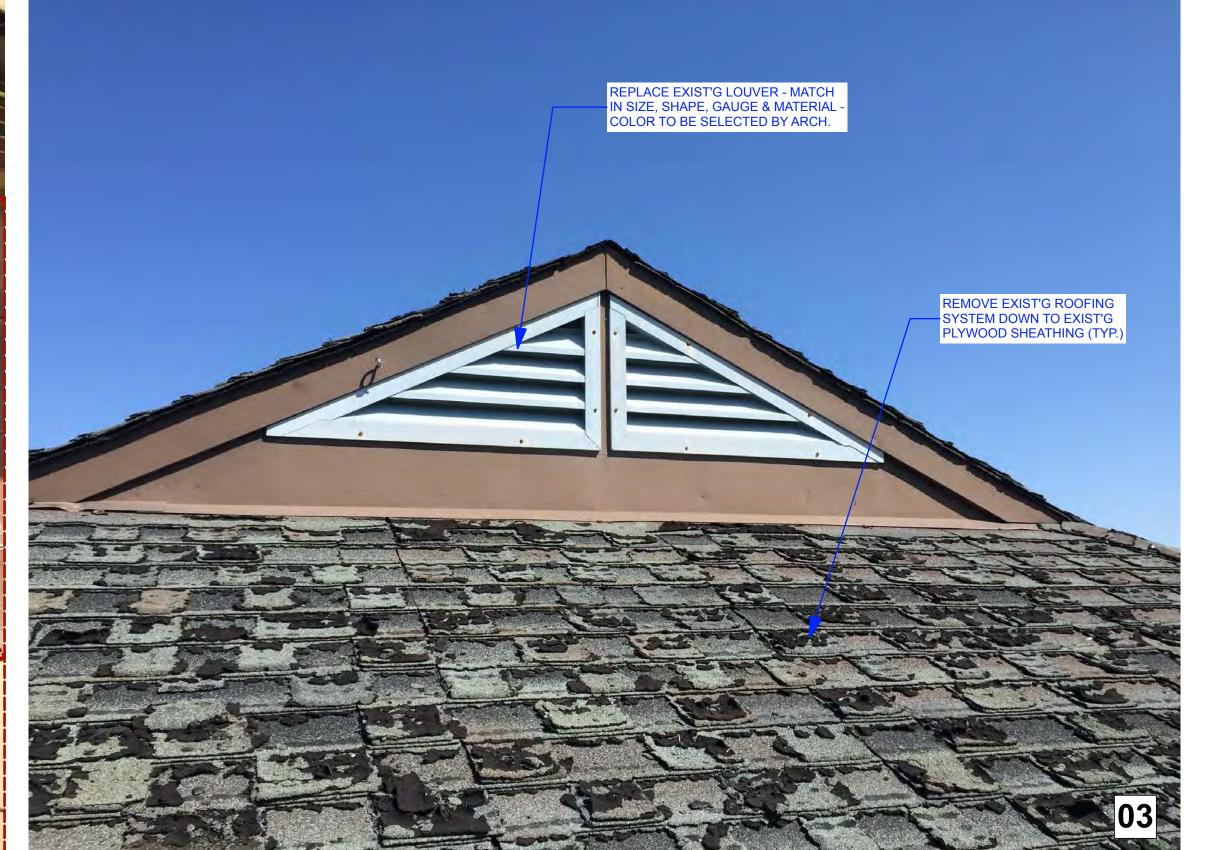
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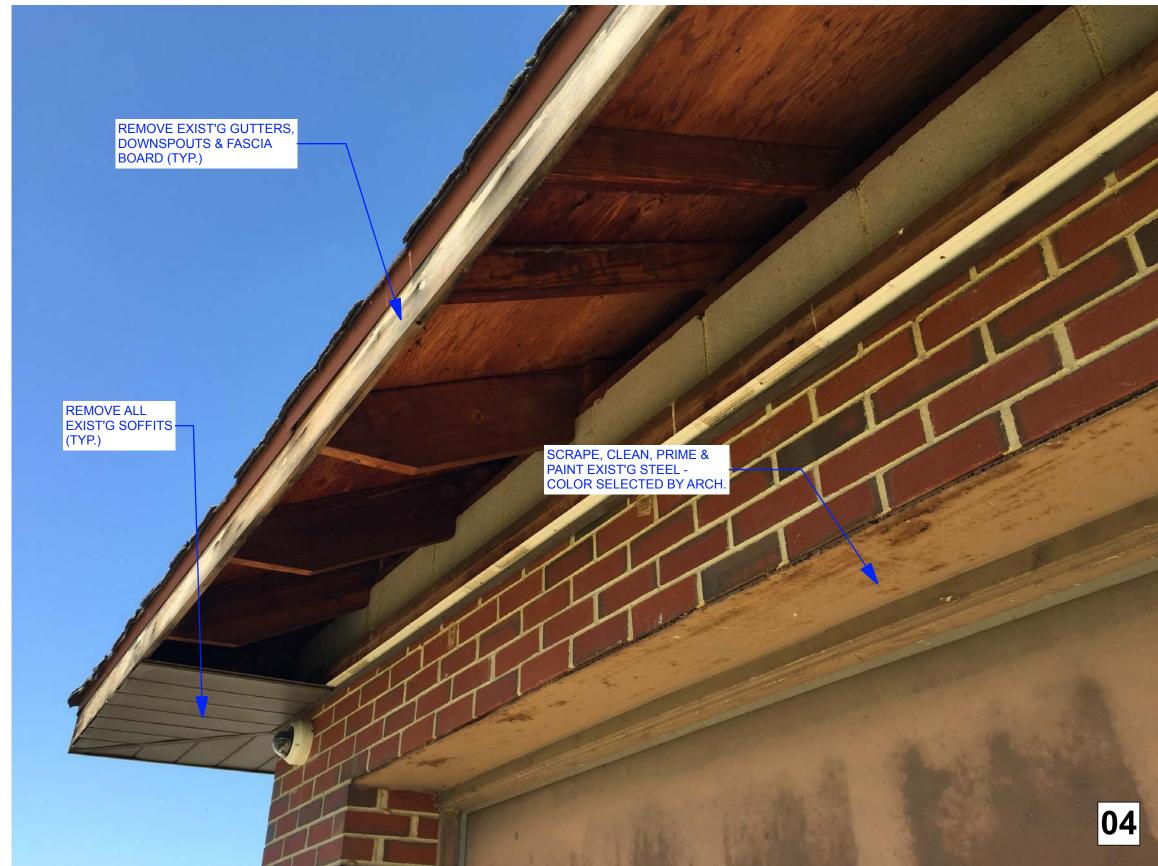
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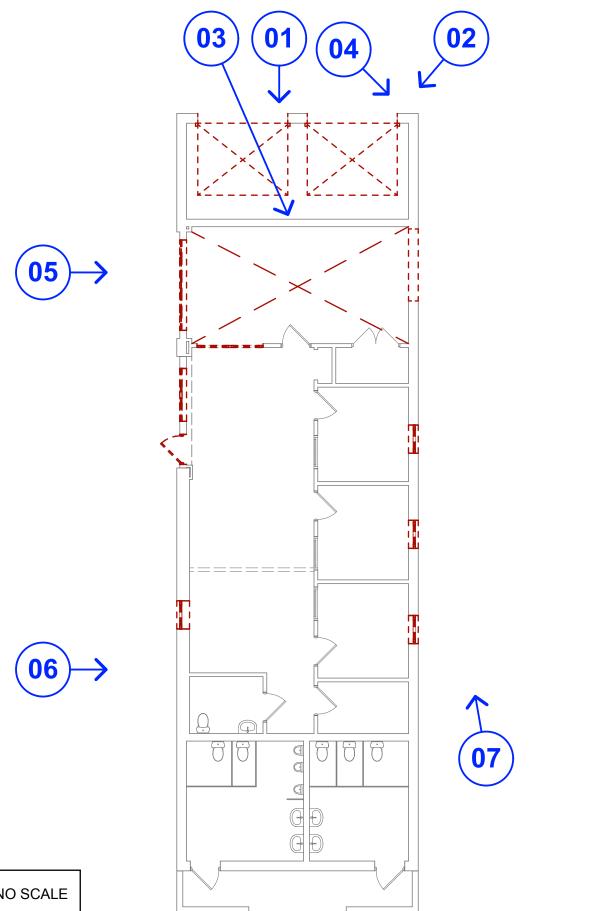
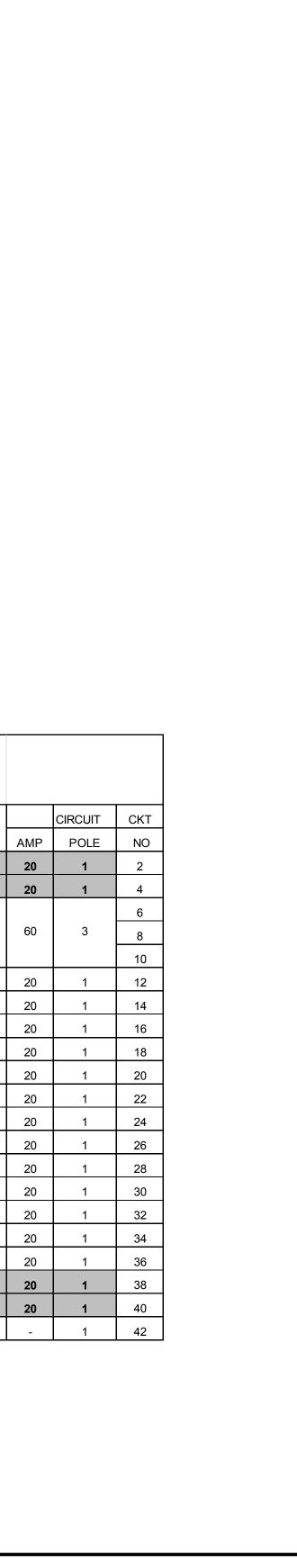


PHOTO LOCATOR PLAN NO SCALE

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commission no.: **5667D**

3 OF **3**



PANEL SCHEDULE FOR (E)PANEL: "ANNEX" 120/208 V, 3PH, 4W, 225A BUS,

225A M.L.O. SQUARE D NQOD

REMARKS

(E)AIR HANDLER HEATER

EXISTING LOAD

XISTING LOAD

EXISTING LOAD

EXISTING LOAD

EXISTING LOAD

(E)LIGHTS

(E)LIGHTS SPARE

(E)GROUP ROOM OUTLET

COMPUTER IMAGING AREA QUAD RECEPTACLE

OMPUTER IMAGING AREA QUAD RECEPTACLE

COMPUTER IMAGING AREA QUAD RECEPTACLE COMPUTER IMAGING AREA QUAD RECEPTACLE

LOCATION: ANNEX MECH

NO POLE AMP

20 (E)H2O HEATER

20 EXISTING LOAD

20 (E)FA BOOSTER

1 20 EXISTING LOAD

1 20 (E)OFFICE #1

27 1 20 (E)OFFICE #2 & #3 29 1 20 (E)EXISTING LOAD

41 1 - SPACE

40 (E)AIR COMPRESSOR AC

20 (E)GROUP ROOM LIGHTS

20 (E)GROUP ROOM OUTLETS

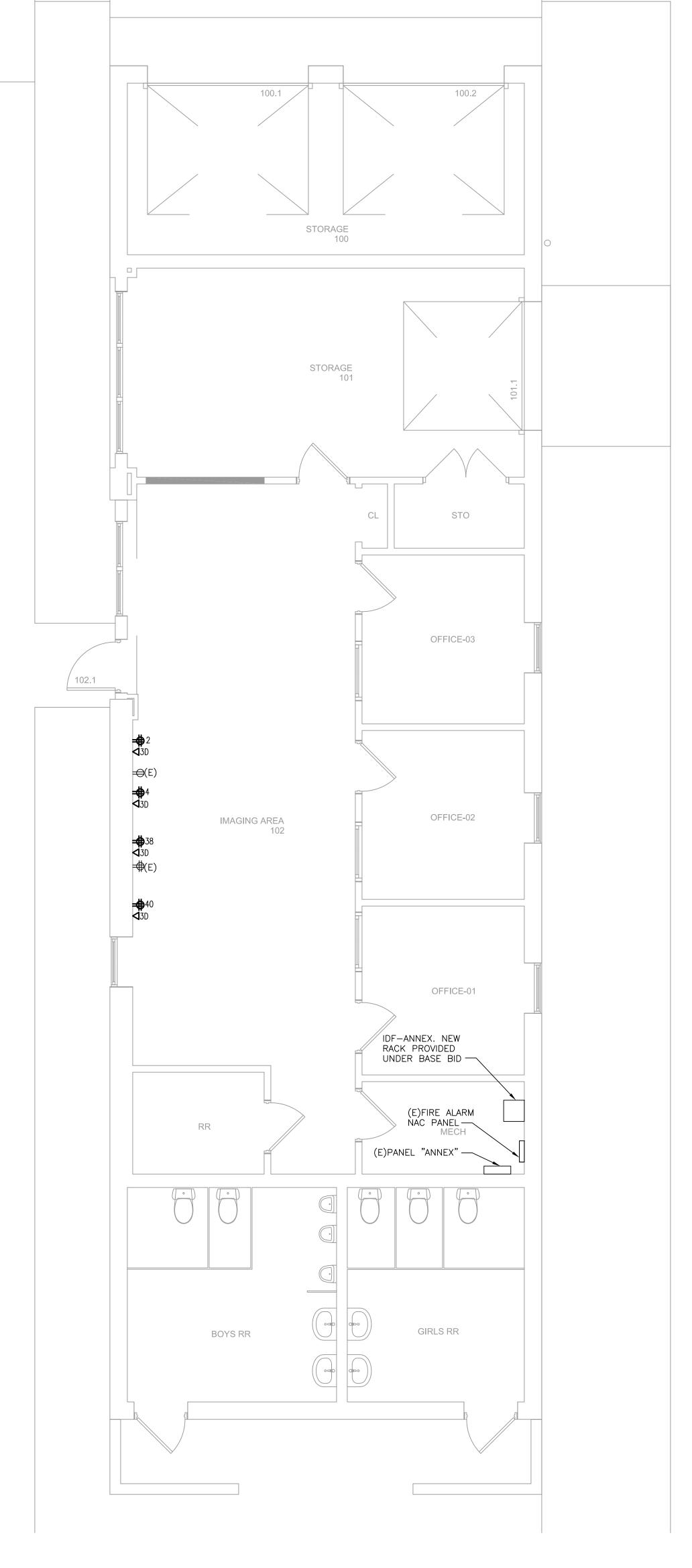
33 1 20 (E)GROUP ROOM OUTLET & OFFICE #2 AND #3
35 1 20 EXISTING LOAD
37 2 20 (E)HEAT PUMP

31 1 20 (E)WAITING ROOM OUTLET, BATHROOM AND OFFICE 3

20 (E)WATER COOLER

20 (E)LIGHTS AND EMERGENCY LIGHT

CKT CIRCUIT



ELECTRICAL FLOOR PLAN SCALE: 1/4" = 1'0" 01

NOTES:

- 1. REFER TO DRAWING EO.1 FOR LEGEND, ABBREVIATION, GENERAL
- 2. ALL WORK SHOWN IS NEW WORK UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REPLACE (RAR), OR RELOCATED (REL).
- 3. WIRE ALL DEVICES IN DETAIL 1 TO PANEL "ANNEX".
- 4. PROVIDE ALL SHADED/BOLDED CIRCUITS WITH NEW CIRCUIT BREAKERS MATCHING TYPE AND RATING OF EXISTING PANEL. EC SHALL COORDINATE SIZE AND QUANTITY.

N.J. Professional Engineer GE45368

Richard L Delp



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1 OF 1

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