# MEDIA CENTER RENOVATION

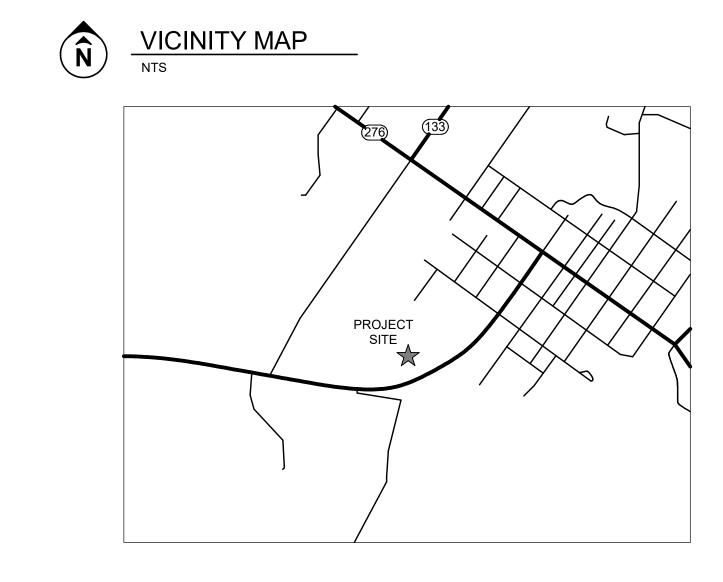
**500 SOUTH 5TH STREET, WILLIAMSBURG, OHIO 45176** 

**SHP - ARCHITECT** 

312 Plum Street, Suite 700, Cincinnati, OH 45202 FAX: (513) 381-5121 PHONE: (513) 381-2112

## **SHP - PME ENGINEER**

312 Plum Street, Suite 700, Cincinnati, OH 45202 PHONE: (513) 381-2112 FAX: (513) 381-5121 **B**SHP



BUILDING CODE UTILIZED: OBC 2017 w/ UPDATES

SHEET INDEX CODE PLAN AS SYMBOLS & LEGEND

WORK POINT ELEVATION -SHEET NUMBER WHERE SHOWN -SHEET NUMBER WHERE SHOWN -EXTERIOR ELEVATION NUMBER -SHEET NUMBER WHERE SHOWN -SECTION NUMBER -SHEET NUMBER WHERE SHOWN WINDOW TYPE (A, B, C, ETC.) OR LOUVER TYPE (L1, L2, L3, ETC.) STOREFRONT TYPE (S1, S2, S3, ETC.) OR CURTAINWALL TYPE (C1, C2, C3, ETC.) PARTITION TYPE CONTROL JOINT (MASONRY) CONTROL JOINT (GYPSUM BOARD) **EXPANSION JOINT** COLUMN CENTERLINE KEYNOTE VISUAL DISPLAY BOARD DOOR NUMBER

BULLNOSE

CENTERLINE **CONTROL JOINT** CEILING CFMF CMU CONC CONT COLD-FORMED METAL FRAMING CONCRETE MASONRY UNIT CONCRETE CONTINUOUS DIAMETER DIMENSION DIRECT-APPLIED EXTERIOR FINISH SYSTEM DOWNSPOUT EXTERIOR INSULATION FINISH SYSTEM **EXPANSION JOINT** FIRE EXTINGUISHER MOUNTED W/ WALL BRACKET FIRE EXTINGUISHER IN CABINET FOOT OR FEET GAUGE GYPSUM BOARD LIGHT GAUGE METAL FRAMING NOT IN CONTRACT NTS NOT TO SCALE MASONRY OPENING ON CENTER OPPOSITE HAND **ROOF DRAIN ROUGH OPENING** 

SECONDARY ROOF DRAIN

UNLESS NOTED OTHERWISE

**GENERAL** TITLE SHEET

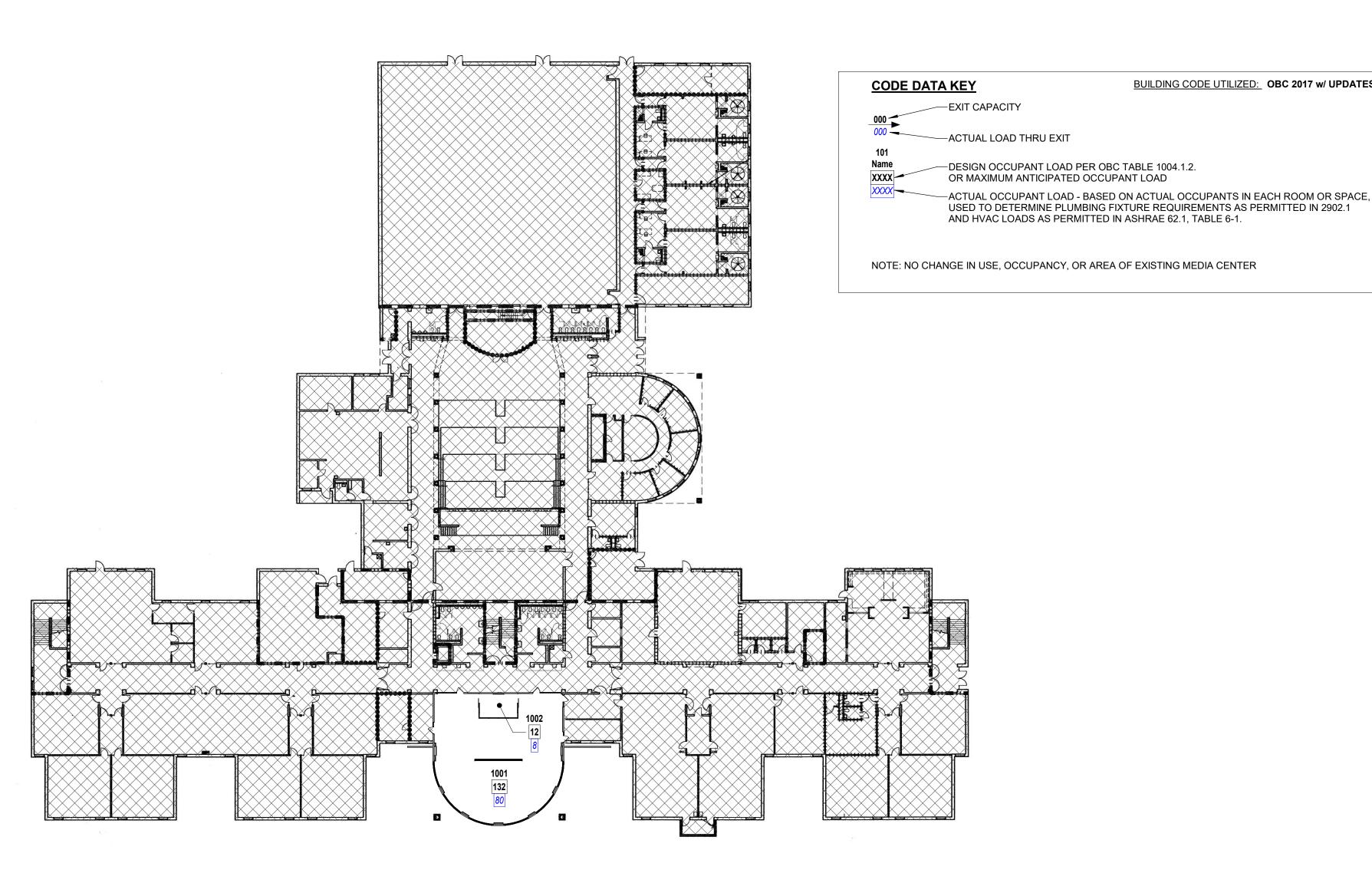
**ARCHITECTURAL** OPENING SCHEDULE MEDIA CENTER DEMO PLAN, FLOOR PLAN & REFLECTED

MEDIA CENTER FINISH PLANS & DETAILS

**ELECTRICAL** 

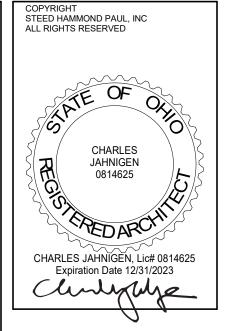
ELECTRICAL LEGENDS ELECTRICAL / FIRE PROTECTION PLANS

> **MECHANICAL** MECHANICAL SCHEDULES, LEGENDS, DETAILS, AND **FLOORPLANS**



MAIN FLOOR CODE PLAN

NTS

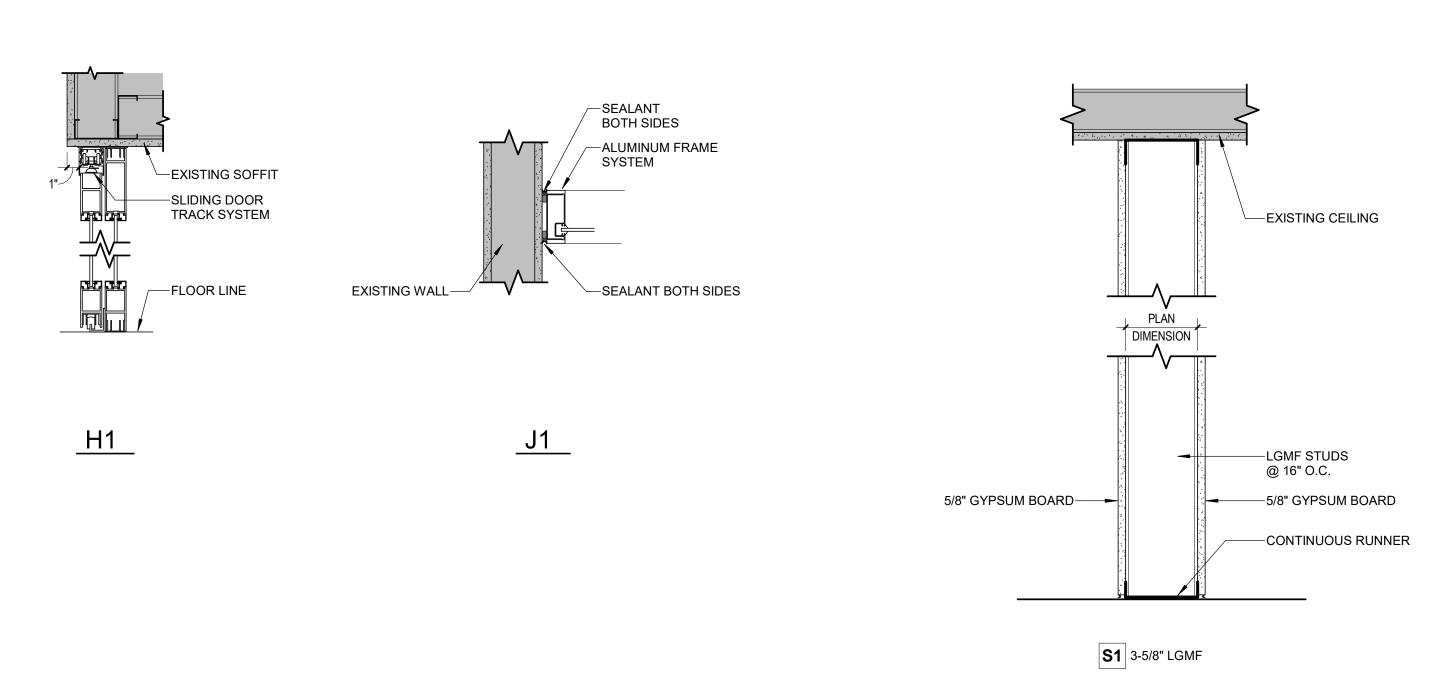


WILLIAMSBURG MEDIA CENTER

	SUANCES
05-19-23	PERMIT & BID SET

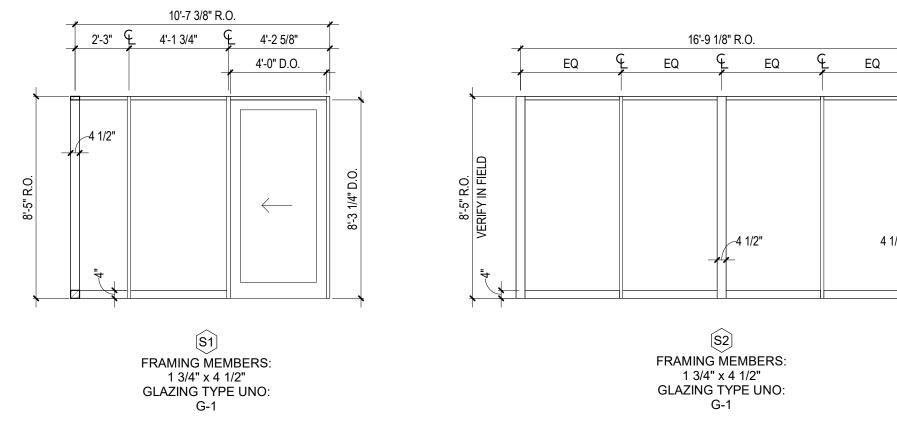
TITLE SHEET

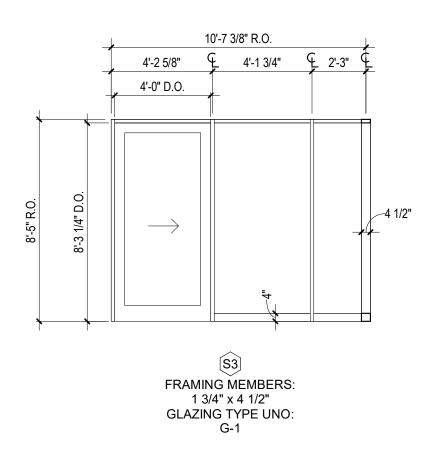
COMM NO. 2023044.01



PARTITION TYPES

4 1/2"





STOREFRONT TYPES

<u>BASIS OF DESIGN:</u> FRAMEWORKS TYPE I FRAME SYSTEM WITH FIXED PANEL/ SLIDER DOORS (OR EQUAL)

**COLOR:** BLACK

HARDWARE SET 1 - PASSAGE FIXED PANEL SLIDING DOOR TRACK WITH SNAP ON COVER (1) DOOR GUIDE (2) DOOR STOPS

(2) 16" CYLINDRICAL DOOR HANDLE SET

HARDWARE BASES OF DESIGN: MOCKETT DH4/BB FINISH FOR ALL HARDWARE TO BE BLACK, UNLESS OTHERWISE **ADDITIONAL REQUIREMENTS:** 

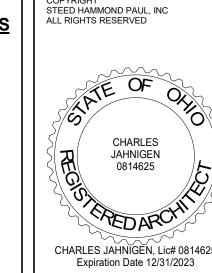
- ALL DOORS IN THE MEANS OF EGRESS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR
- ALL DOOR HARDWARE SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
- DOORS OPENING INTO AND EXIT CORRIDOR SHALL BE SELF-CLOSING AND HAVE A MINIMUM FIRE RESISTANCE. RATING OF 90 MINUTES. DO NOT INSTALL HOLD OPEN KICK DOWNS @ DOOR OPENING INTO EXIT CORRIDORS.
- DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AND OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM
- DOOR SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM
- THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN 1:2.
- ALL LEGAL EXITS SHALL BE PROVIDED WITH SELF-ILLUMINATED EXIT SIGNS HAVING 6" LETTERS WITH 3/4" STROKES IN CONTRASTING COLOR.
- HARDWARE CONTRACTOR TO COORDINATE ALL HARDWARE WITH DOORS AND FRAMES AS SPECIFIED, INCLUDING BACKSETS AND STRIKES
- ALL COMPONENTS OF FIRE RATED DOOR ASSEMBLIES SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY INCLUDING: DOOR, FRAME, CLOSING DEVICE, LATCHES AND HINGES. PROVIDE SMOKE GASKETS AND DRAFT CONTROL IF REQUIRED.
- HARDWARE FOR ALL ACCESSIBLE DOORS SHALL BE OF THE LEVER OR PUSH TYP. MOUNTED 30" TO 44" AFF
- GC TO MAXIMIZE POSSIBLE DOOR SWING AT ALL DOORS
- PROVIDE WALL OR FLOOR MOUNTED DOOR STOPS AT ALL DOORS
- ALL DOOR HARDWARE TO BE BRUSHED STAINLESS FINISH, UNLESS OTHERWISE
- DOORS WITH PASSAGE FUNCTION HARDWARE DO NOT HAVE LOCKING HARDWARE. EGRESS DOORS TO ROOMS SERVING FIRE ESCAPES SHALL NOT HAVE LOCKING HARDWARE

**OPENING SCHEDULE ABBREVIATIONS** 

AL ALUMINUM HM HOLLOW METAL PREFINISHED PT PAINT SS STAINLESS STEEL

STL STEEL

WD WOOD



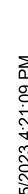
CHARLES JAHNIGEN, Lic# 0814625

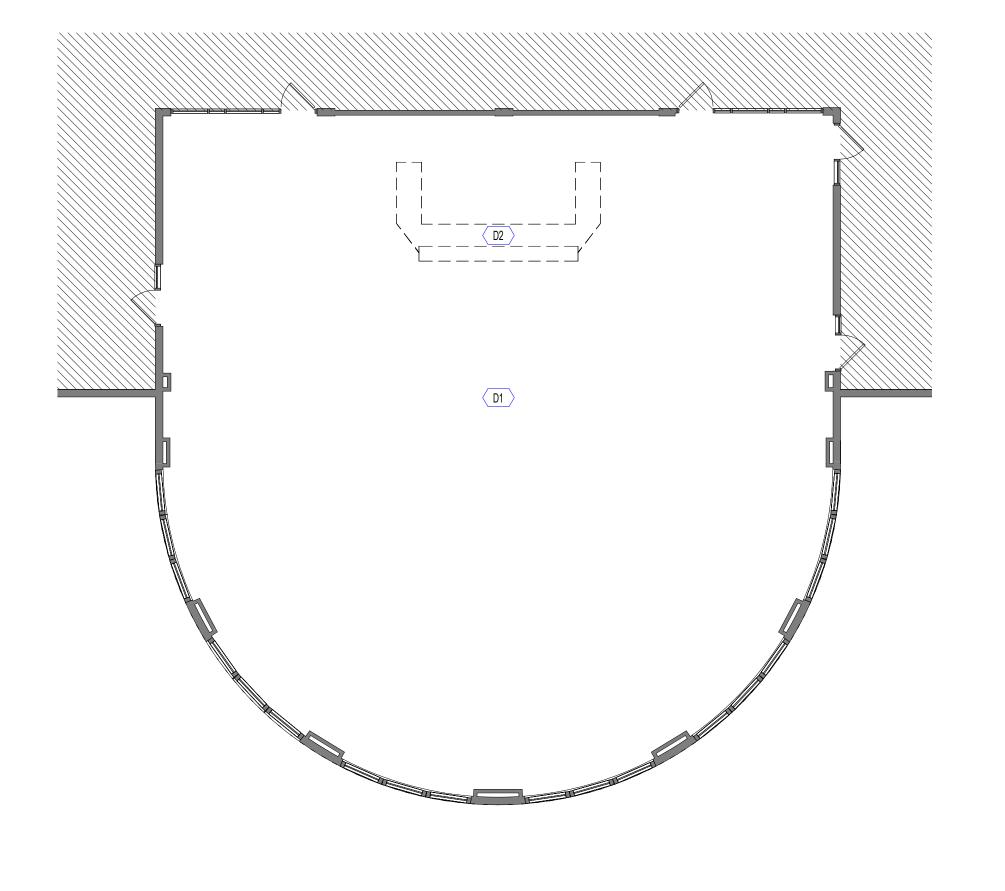
MEDIA CENTER RENOVAT 500 SOUTH 5TH STREET, WILLIAMSBURG, OHIO 4 WILLIAMSBURG LOCAL SCHOOL DI 549A WEST MAIN STREET, WILLIAMSBURG, OHIO 4

	SUANCES
19-23	PERMIT & BID SET

OPENING SCHEDULE

COMM NO. 2023044.01

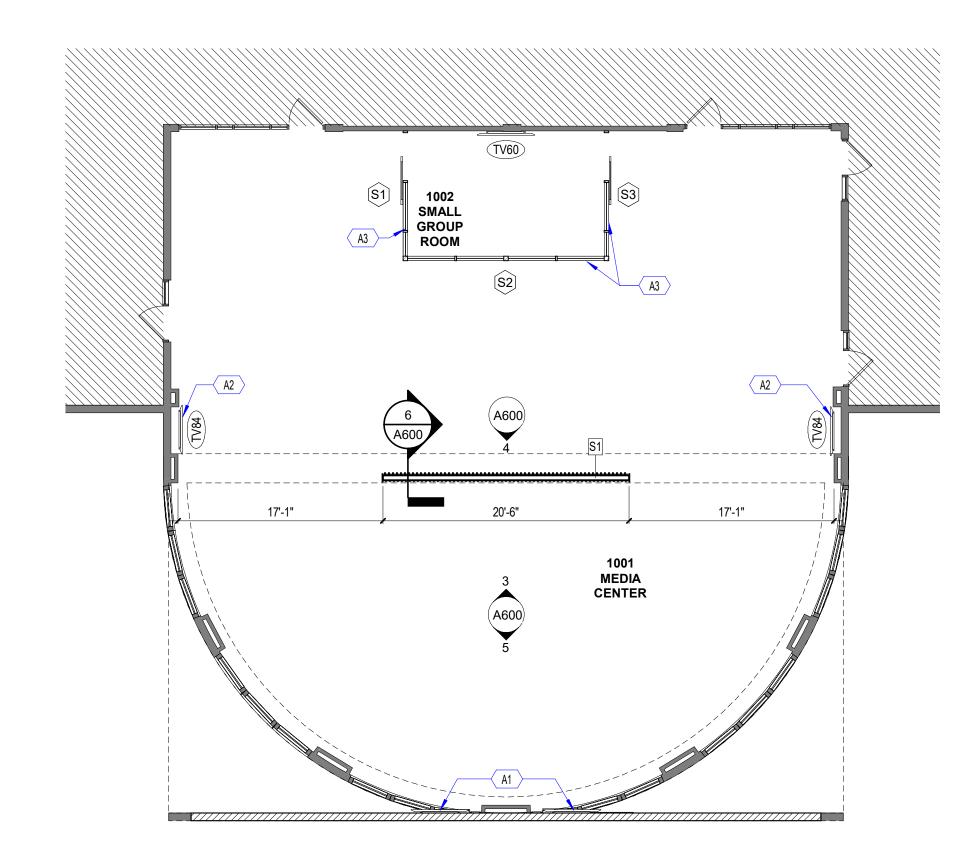




### **GENERAL NOTES - REFLECTED CEILING PLAN**

ALL EXPOSED CEILING STRUCTURE, DECK, DUCTWORK, CONDUIT HANGERS, ETC. TO BE PAINTED PT-1 UNLESS NOTED OTHERWISE. PAINT ALL GYP BD SOFFITS PT-1 UNLESS NOTED OTHERWISE. ALL EXPOSED INTERIOR STEEL (LINTELS, ETC) TO BE PAINTED TO MATCH ADJACENT WALL SURFACE UNLESS NOTED OTHERWISE. ALL EXTERIOR STEEL (LINTELS, ETC) TO BE PAINTED TO MATCH FIRST MASONRY COURSE ABOVE LINTEL UNLESS NOTED OTHERWISE.

	FINISH LISTING - PAINT
PT-1	TO MATCH SHERWIN WILLIAMS GUILD GREY (SW9561)
PT-2	TO MATCH SHERWIN WILLIAMS STEELY GRAY (SW7664)
PT-3	TO MATCH SHERWIN WILLIAMS BLUEBLOOD (SW6966)
PT-4	TO MATCH SHERWIN WILLIAMS DORMER BROWN (SW7521)



2 FIRST FLOOR PLAN - MEDIA CENTER
A100A 1/8" = 1'-0"

1 FIRST FLOOR DEMO PLAN
A100A 1/8" = 1'-0"

#### **GENERAL NOTES - DEMOLITION PLAN**

- A. REPAIR EXISTING SURFACES WHERE DEMOLITION HAS OCCURED FOR NEW CONSTRUCTION. GENERAL TRADES CONTRACTOR SHALL PATCH/REPAIR WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION WORK. PATCHING/CUTTING OF EXISTING SURFACES FOR NEW WORK SHALL BE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR PERFORMING THE WORK. ALL REPAIRS SHALL MATCH EXISTING ADJACENT SURFACES IN MATERIAL, FINISH, TEXTURE, ETC.
- THIS WORK IS TO BE INCLUDED IN BASE BID AND IS NOT TO BE INCLUDED IN THE QUANTITY ALLOWANCE. B. UNLESS DIRECTED BY OWNER, ALL MISCELLANEOUS ITEMS ATTACHED TO FLOORS, WALLS, OR CEILINGS ARE TO BE REMOVED THAT INTERFERE WITH INSTALLATION OR ALIGNMENT OF NEW WORK. THIS INCLUDES BUT NOT LIMITED TO: SHELVES, BRACKETS, POSTERS, PAINTINGS, ART OR OTHER DISPLAYS, PROJECTION SCREENS, AND VISUAL DISPLAY BOARDS.
- C. OWNER WILL REMOVE ALL LOOSE FURNITURE/APPLIANCES IN ROOMS PRIOR TO THE COMMENCEMENT OF DEMOLITION. AT ALL EXISTING SURFACES SCHEDULED TO RECEIVE A NEW PAINT FINISH REMOVE ANY EXISTING FASTENERS, BRACKETS, ETC. IN WALLS THAT ARE NOT BEING USED AND PATCH TO MATCH EXISTING ADJACENT SURFACES IN MATERIALS, FINISH, TEXTURE, ETC. PATCH CHIPPED PAINT SURFACES ON PLASTER WALLS TO MATCH ADJACENT SURFACE TEXTURE. SAND CHIPPED EDGES ON WOOD AND METAL SURFACES
- NOT ALL ROOM MATERIAL/FINISH DEMOLITION INDICATED. WHERE NEW MATERIAL/FINISH IS INDICATED IN ROOM FINISH SCHEDULE, REMOVE EXISTING MATERIALS/FINISH INCLUDING FLOOR AND BASE, ADHESIVES/MASTICS, FLOOR SEALERS AND CURING COMPOUNDS, AND FLOOR PAINT WHETHER OR NOT SHOWN TO BE REMOVED ON DEMOLITION FLOOR PLANS.
- F. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

#### **KEY NOTES - DEMOLITION PLANS**

REMOVE EXISTING FLOOR FINISH AND WALL BASE REMOVE EXISTING CASEWORK

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TE OF

CHARLES

JAHNIGEN 0814625

CHARLES JAHNIGEN, Lic# 0814625

Expiration Date 12/31/2023

WILLIAMSBURG H
MEDIA CENTER F
500 SOUTH 5TH STREET, WILL

A. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF STUD, OR FACE OF EXISTING FINISH UNLESS NOTED OTHERWISE.

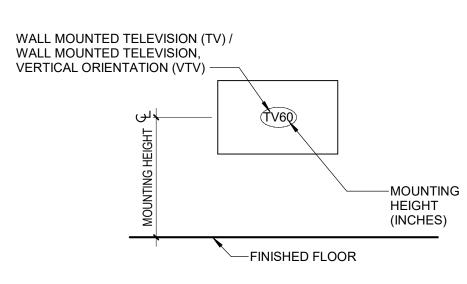
**KEY NOTES - FLOOR PLANS** 

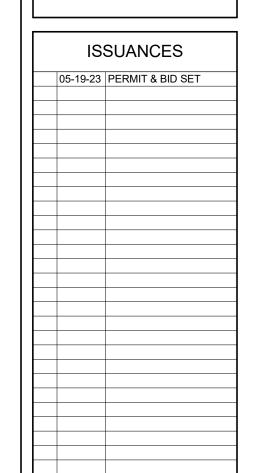
**GENERAL NOTES - FLOOR PLAN** 

B. ALL PARTITIONS TYPE M1 UNLESS NOTED OTHERWISE.

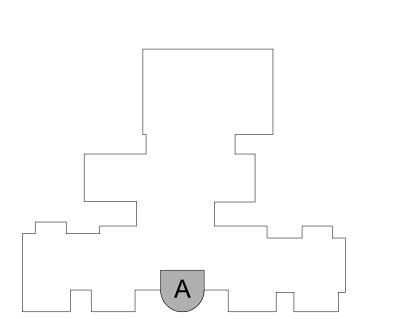
WALL MOUNTED TVS ABOVE CUT PLANE. SEE ELEVATION 4/A600 REUSE EXISTING TV BRACKET STOREFRONT TO ALIGN WITH EXISTING SOFFIT ABOVE. HOLD FACE OF STOREFRONT MULLION 1" +/- FROM FACE OF SOFFIT FACE.

TV MOUNTING HEIGHT LEGEND

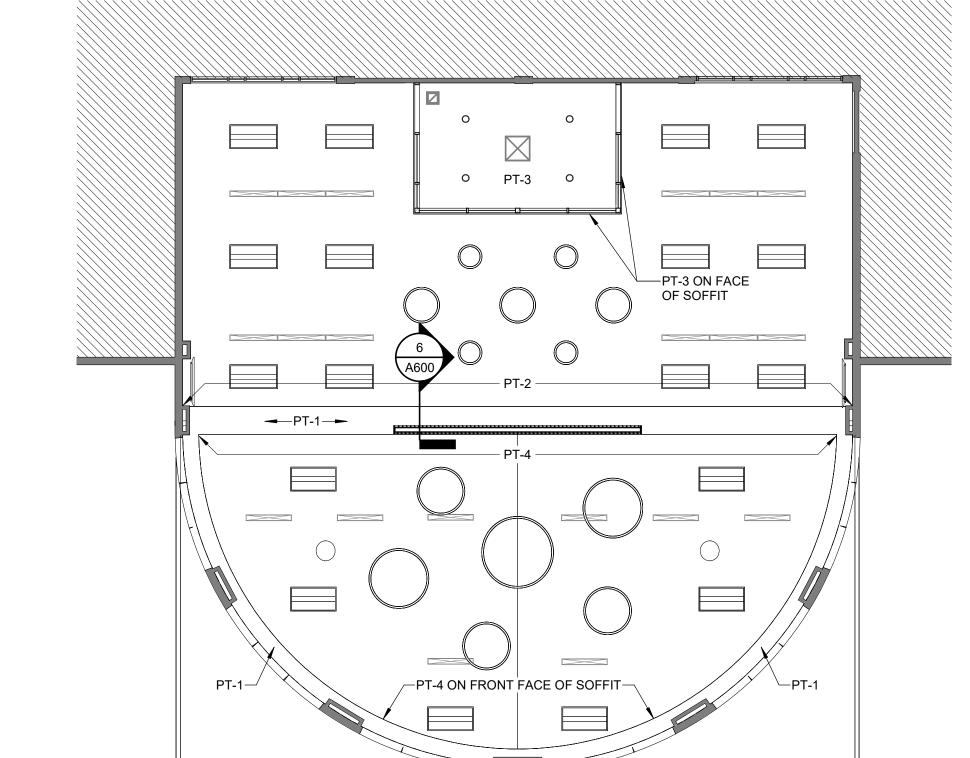




MEDIA CENTER
DEMO PLAN,
FLOOR PLAN &
REFLECTED
CEILING PLAN



COMM NO. 2023044.01 A100A





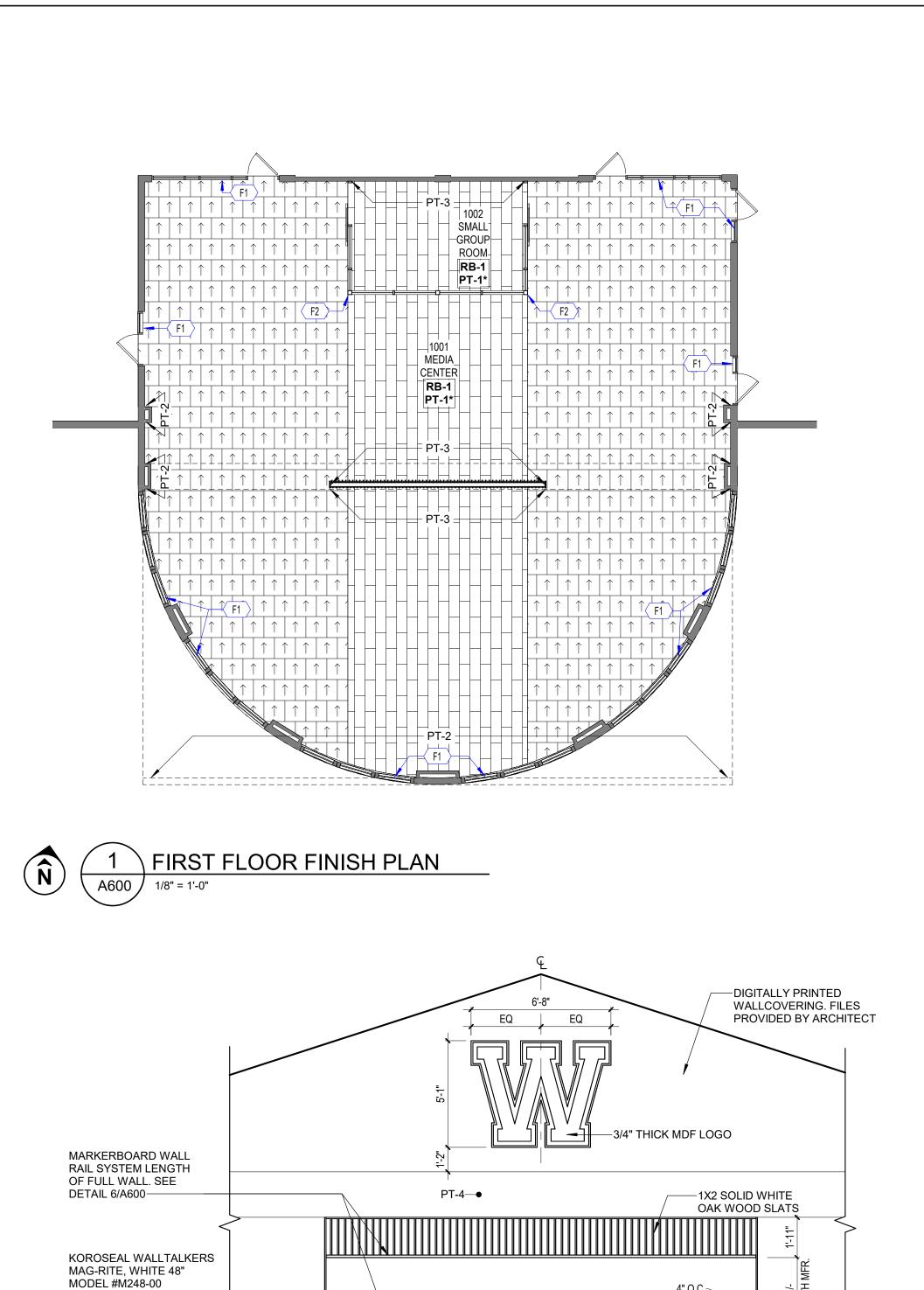
KEY PLAN

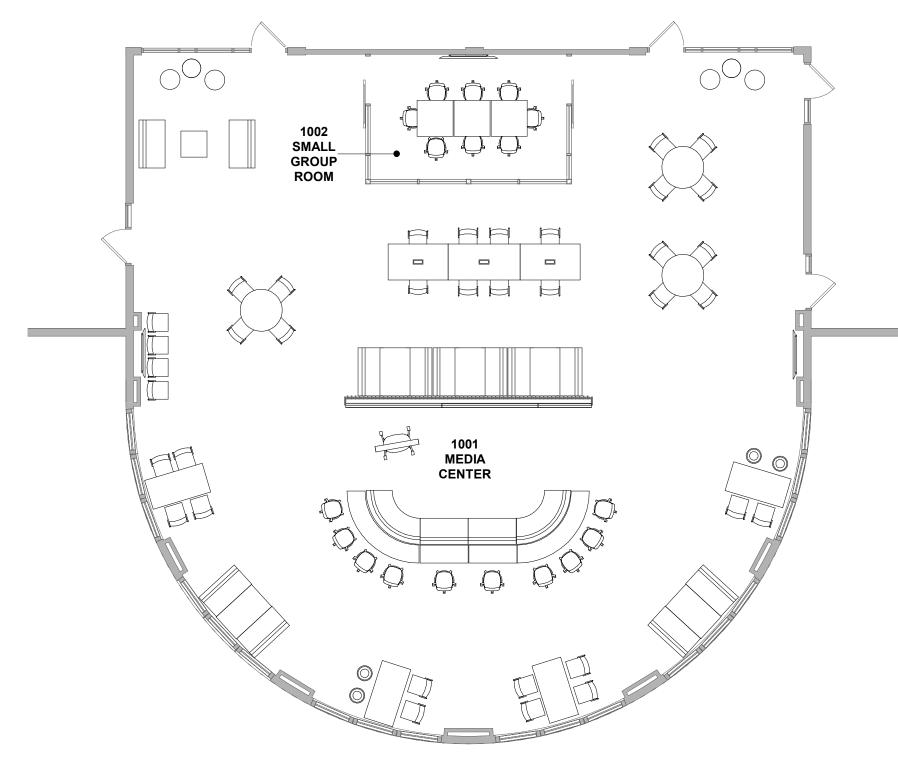
NTS

(OR EQUAL)—

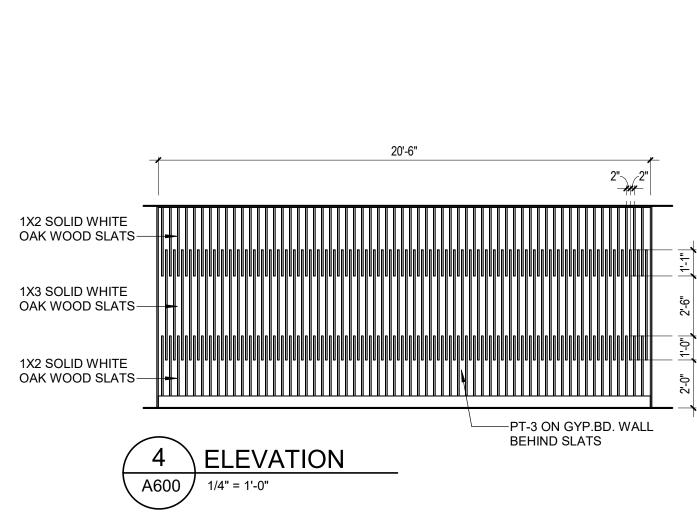
1X8 SOLID WHITE OAK

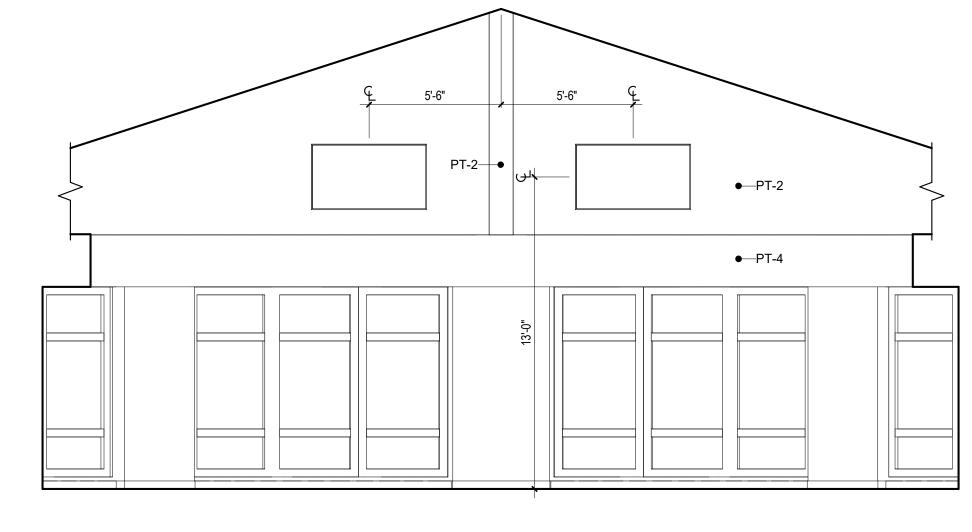
END CAPS, BOTH SIDES. -





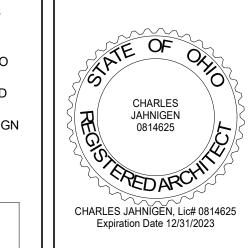




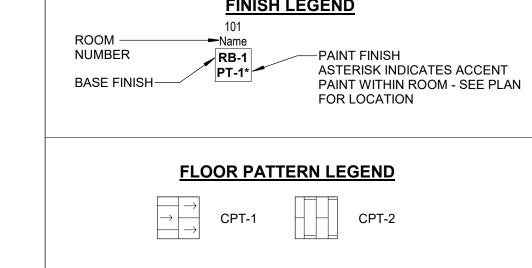


#### **GENERAL NOTES - FLOOR FINISH PLAN**

- A. CONTRACTOR MUST OBTAIN COLOR PRINTS OF ALL FLOOR PATTERNS FROM ARCHITECT BEFORE INSTALLING MATERIAL.
- EXTEND FLOORING MATERIAL UNDER OPEN CASEWORK. WHEN MATERIAL TRANSITIONS OCCUR AT A DOORWAY, TRANSITION TO
- OCCUR AT THE CENTERLINE OF THE CLOSED DOOR. SEE STRUCTURAL FOUNDATION AND PLUMBING PLANS FOR DRAIN AND
- SLOPE LOCATIONS. PRODUCTS LISTED ON THE DRAWING SHEETS ARE THE BASIS OF DESIGN PRODUCT. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.



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#### **KEY NOTES - FINISH PLANS**

PAINT EXISTING DOOR AND WINDOW FRAMES PT-2 ALIGN FLOOR TRANSITION WITH FACE OF STOREFRONT

	FINISH LISTING - PAINT
PT-1	TO MATCH SHERWIN WILLIAMS GUILD GREY (SW9561)
PT-2	TO MATCH SHERWIN WILLIAMS STEELY GRAY (SW7664)
PT-3	TO MATCH SHERWIN WILLIAMS BLUEBLOOD (SW6966)
PT-4	TO MATCH SHERWIN WILLIAMS DORMER BROWN (SW7521)

#### FINISH LISTING

RESILIENT BASE

RB-1: A. TARKETT, 4" BASE; COLOR: IRON MOUNTAIN TG3 B. FLEXCO, 4" BASE; COLOR: 092 GRAYSTONE C. MOHAWK GROUP, 4" BASE; COLOR: 966 PEPPER GRAY

#### TILE CARPETING

A. SHAW CONTRACT, COMMONS TILE; COLOR: CHROME 23515 B. J+J FLOORING; WELL VERSED II 7072; COLOR: 2026 PLATH C. MOHAWK GROUP; ECOSPHERE GT333; COLOR: 949 FOSSIL

KEY PLAN

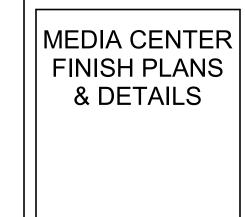
NTS

A. SHAW CONTRACT, ENDLESS TILE; COLOR: SKIES 05486 B. J+J FLOORING; COLOR ZONE 7479; COLOR: 3370 COBALT C. MOHAWK GROUP; COLOR BALANCE GT405; COLOR: 565 FLAME

# HIGH SCHOOL RENOVATI WILLIAMSBURG H MEDIA CENTER F 500 SOUTH 5TH STREET, WILL

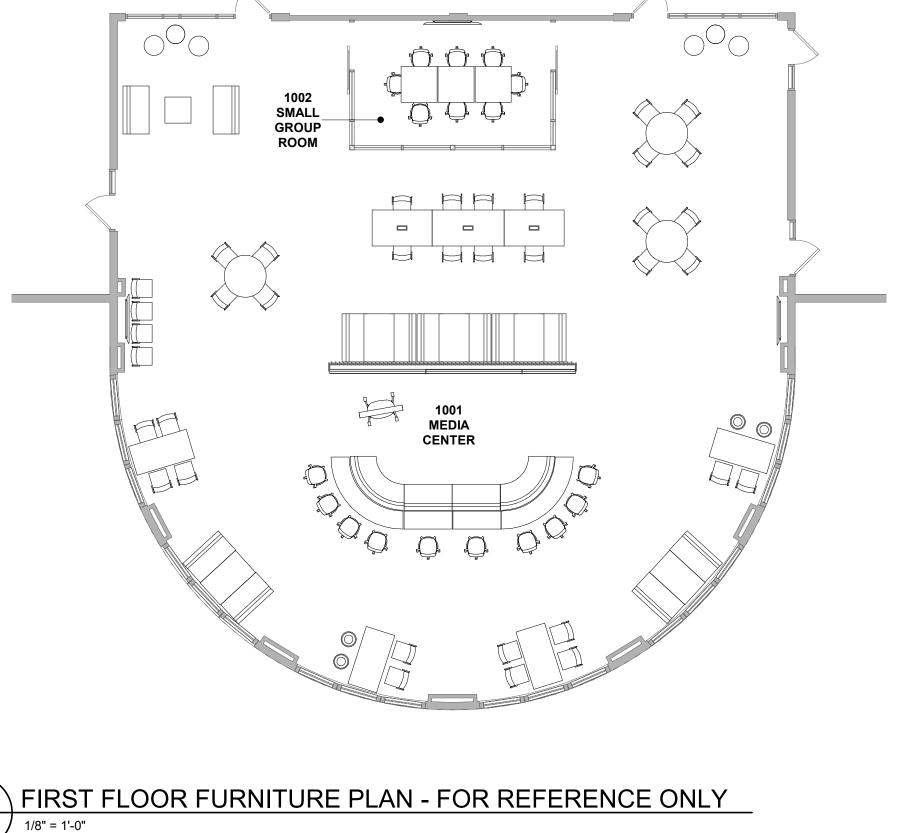
WILLIAMSBURG LOCAL SCHOOL DI 549A WEST MAIN STREET, WILLIAMSBURG, OHIO 4

IS	SUANCES
05-19-23	PERMIT & BID SET

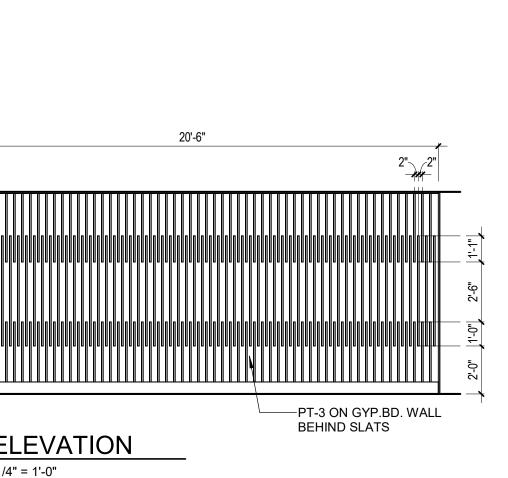


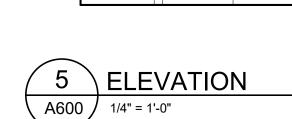
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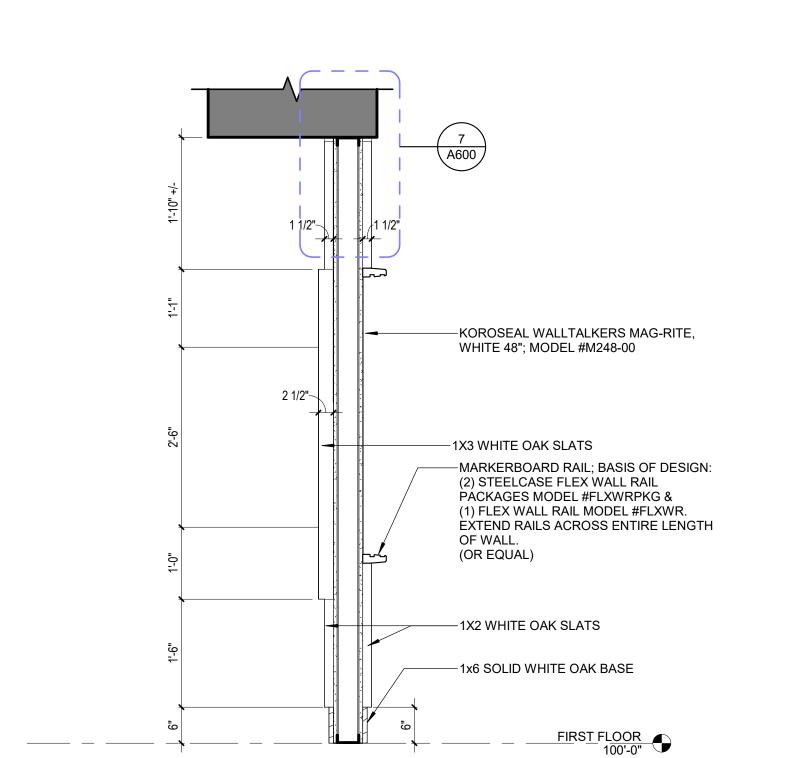
A600





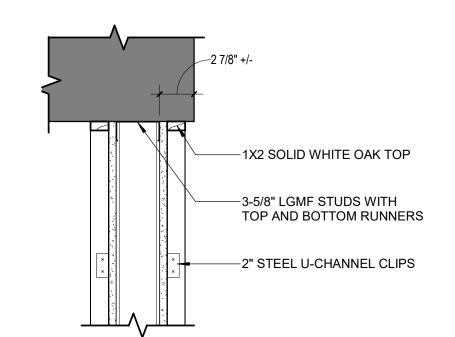


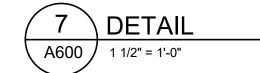


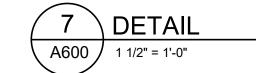


WALL SECTION

3 ELEVATION A600 1/4" = 1'-0"







4" O.C.

PT-3 ON GYP.BD. WALL BEHIND SLATS

				23-AI	R DEVICE SCHEDULE						
	BASIS OF D	ESIGN		MAXIMUM	MAXIMUM PRESSURE	MAXIMUM			CONNECTION	<b>FACE SIZE</b>	
MARK	MANUFACTURER	MODEL	DIFFUSER TYPE	AIRFLOW	DROP	SOUND	BLADE SPACING	DIFFUSER PATTERN	SIZE (INCH)	(INCH)	NOTES
ECG-1	PRICE	80	EGG CRATE CRILLE	720 CFM	0.085 in-wg	20	1/2" X 1/2"	0	12" X 12"	12" X 12"	1
SDT-2	PRICE	VPD-HC	VARITHERM MECHANICAL VAV DIFFUSER	210 CFM	0.110 in-wg	17	N/A	0	8Ø	24x24	1,2

HARD-SURFACE MOUNTING. VAV DIFFUSER WITH SETPOINTS ACCESSIBLE THROUGH FACE OF DIFFUSER WITH ADJUSTABLE MINIMUM AIRFLOW SETPOINT SET TO 65 CFM.

# **ASHRAE Standard 62.1-2016**

#### **System Ventilation Requirements**

			∑Vpz	Ps	∑ Pz	D	Vou	Vps	Xs	Ev	Vot	%OA
AHU Location	Description		cfm	People	People	Ps / ∑ Pz	cfm	cfm			cfm	Vot / Vps
Alternative 1												
System	FPVAV	Cooling	144	8	8	1.00	51	144	0.353	1.000	51	35.3
		Heating	63	8	8	1.00	51	63	0.800	1.000	51	80.0

#### \* Apply Single Zone Ventilation Calculation

#### **Ventilation Parameters**

							Std 170	— Со	oling—	—He	eating—
System Zone Room	Occupancy Category	Rp cfm / p	Pz People	Ra cfm/ft²	Az ft²	Vbz cfm	Min OA ach	Ez	Voz cfm	Ez	Voz cfm
Alternative 1											
1002 Small Group Room	Conference/ meeting	5.00	8.00	0.06	178	51		1.00	51	0.80	63
FPVAV		5.00	8.00	0.06	178	51			51		63

#### ventilation Calculations for Cooling Design

		Vpz	Vfan	Vdz	Vpz-min	Voz-clg	Zd	Ep	Er	Fa	Fb	Fc	Evz
System Zone Room	Box Type	cfm	cfm	cfm	cfm	cfm							
Alternative 1													
1002 Small Group Room	SFP Reheat	144	144	144	63	51	0.353	1.00	0.30	1.00	1.00	1.00	1.000 *
FPVAV		144	144	144	63	51							1.000

Ventilation Calculation	ons for Heating D	esign											
		Vpz	Vfan	Vdz	Vpz-min	Voz-htg	Zd	Ер	Er	Fa	Fb	Fc	Evz
System Zone Room	Box Type	cfm	cfm	cfm	cfm	cfm							
Alternative 1													
1002 Small Group Room	SFP Reheat	63	63	144	63	63	0.441	1.00	0.30	1.00	1.00	1.00	1.000 *

Dataset Name: 2023044 Williamsburg.trc

TRACE® 700 v6.3.5 calculated at 04:25 PM on 05/12/2023

# TRANSFER DUCT - ACOUSTIC LINED ELBOW

REFER TO FLOOR PLANS FOR DUCT WIDTH

STAINLESS-STEEL FLEX DUCT-

FLEX TO DIFFUSER DETAIL

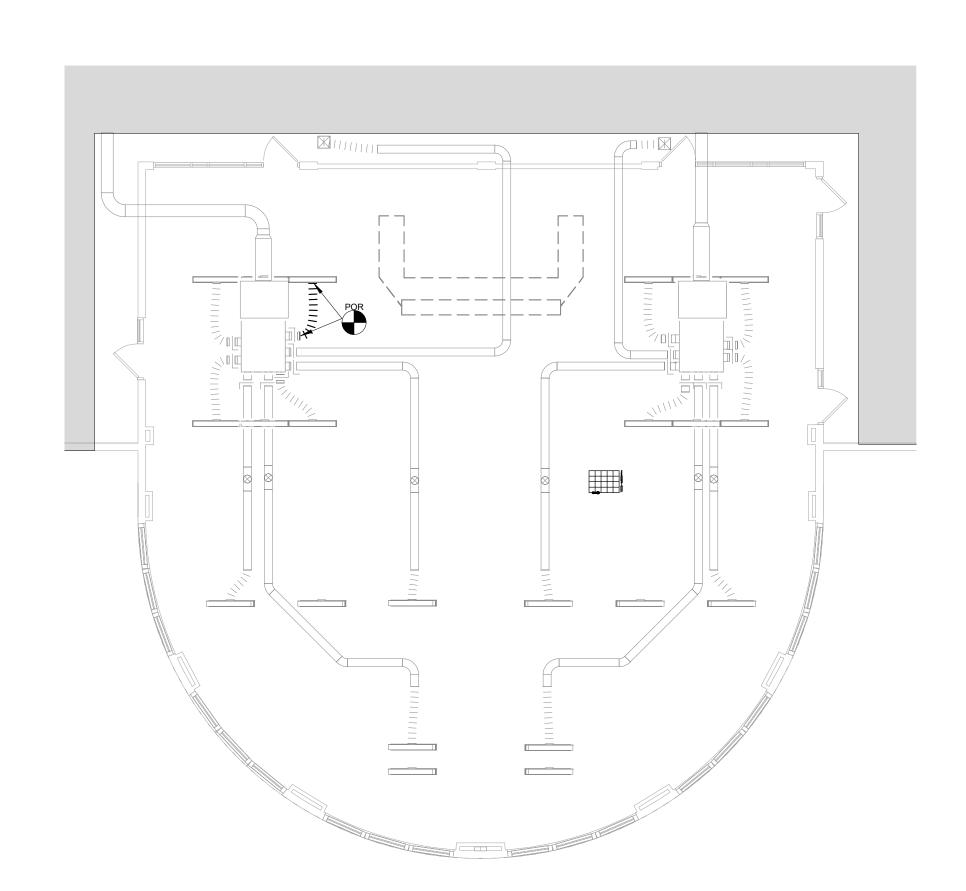
CLAMP. TYPICAL.

TITUS FLEXRIGHT SUPPORT

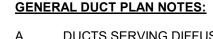
OR EQUAL

#### **GENERAL HVAC DEMOLITION NOTES:**

- DRAWING IS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CM OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.
- DUCTWORK, PIPING, ACCESSORIES, EQUIPMENT, AND ALL OTHER HVAC SCOPE DENOTED BY BOLD, DASHED LINE TYPE INDICATES DEMOLITION SCOPE.
- DUCTWORK, PIPING, ACCESSORIES, EQUIPMENT, AND ALL OTHER HVAC SCOPE DENOTED BY GRAY LINE TYPE INDICATES DEMOLITION SCOPE.



#### 2 HVAC DEMOLITION PLAN M000 / 1/8" = 1'-0"

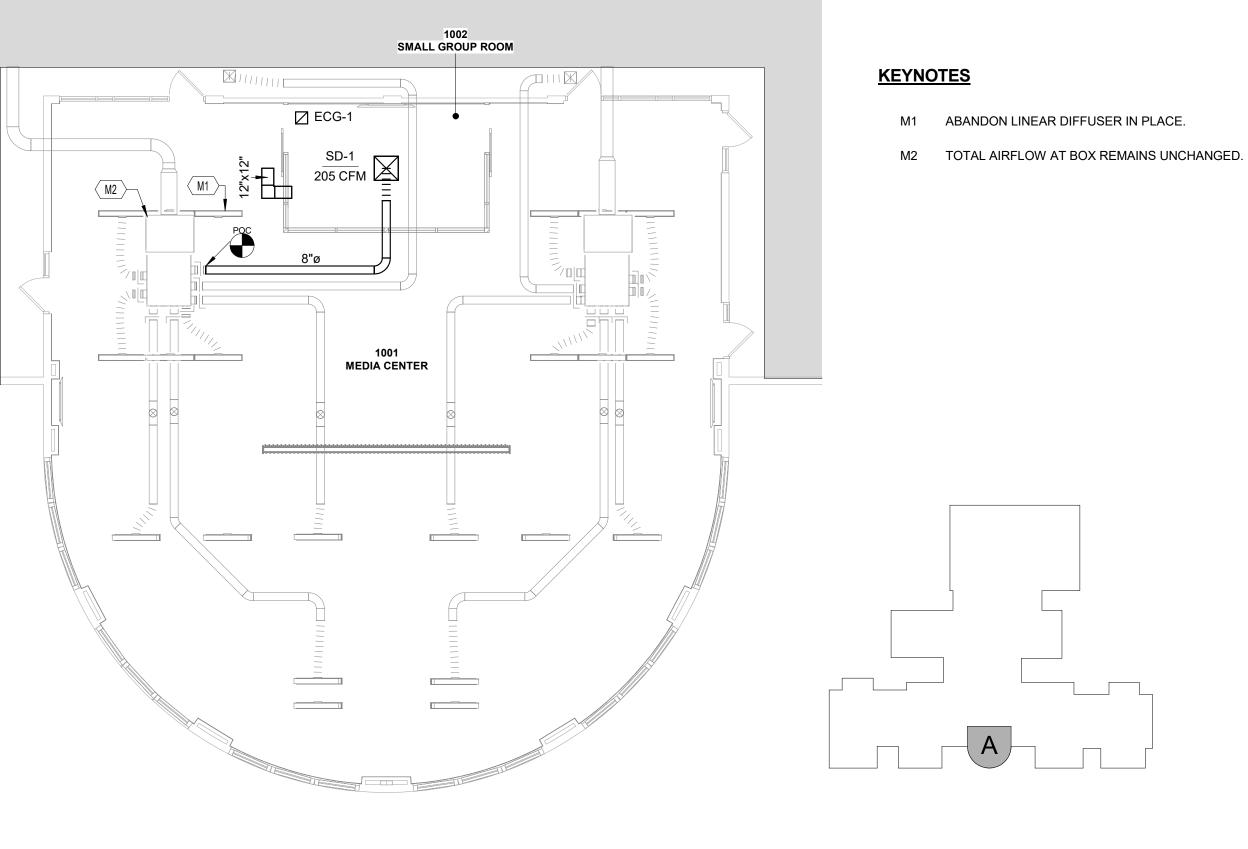


- DUCTS SERVING DIFFUSERS AND GRILLES ARE TO BE THE SAME SIZE AS DIFFUSER NECK SIZE OR GRILLE FACE UNLESS NOTED OTHERWISE.
- AIR TRANSFER DUCTS ARE 14" X 14" UNLESS NOTED OTHERWISE. CONTRACTOR TO PROVIDE ADDITIONAL TRANSFER OPENINGS ABOVE CEILING AS NEEDED FOR AIR RETURN.

1 HVAC PLAN

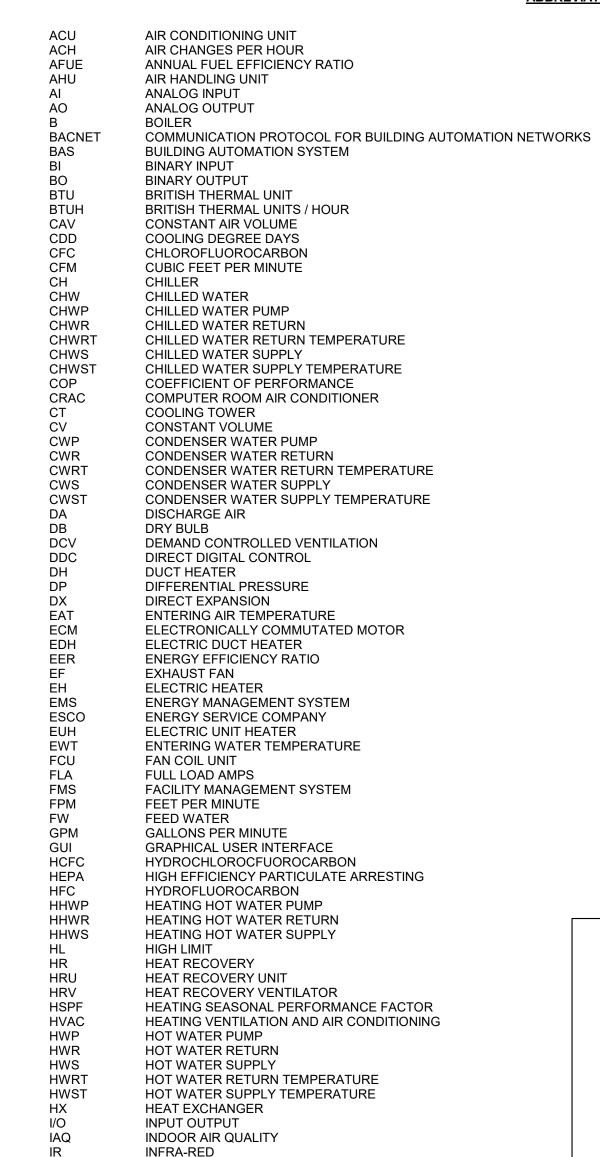
M000 / 1/8" = 1'-0"

DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT. PROVIDE VOLUME CONTROL DAMPERS IN RUN-OUT DUCT TO ALL SUPPLY AIR DEVICES.





-1" ACOUSTIC LINING



#### **GENERAL PROJECT NOTES**

LEAVING AIR TEMPERATURE

LOWER HEATING VALUE

DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW DESIGN INTENT. IF CHANGES ARE MADE DUE TO DIFFERING FIELD CONDITIONS, SUGGESTED CHANGES ARE TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CHANGES BEING MADE.

REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE-RATED

- REPAIR ANY WORK DAMAGED AS A RESULT OF WORK BY THIS CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AND PAY FOR FOR ALL MATERIALS, LABOR, LICENSES, PERMITS, INSPECTIONS, FEES, FINAL CLEANUP, AND QUALITY OF WORKMANSHIP AND MATERIALS REQUIRED TO PERFORM WORK DESCRIBED IN CONTRACT. CONTRACTOR SHALL VERIFY AND SATISFY THAT ALL EQUIPMENT FURNISHED WILL PROPERLY FIT IN THE SPACE PROVIDED, THAT IT WILL FUNCTION PROPERLY, AND THAT ALL PARTS OF EQUIPMENT REQUIRING SERVICE ARE READILY ACCESSIBLE IN COMPLIANCE WITH THE MECHANICAL
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CUTTING AND PATCHING OF WALLS, FLOORS, AND ROOFS REQUIRED FOR INSTALLATION OF THE WORK. ALL OPENINGS IN WALLS, FLOORS OR CEILINGS SHALL BE PROPERLY SEALED.
- ALL WORK SHALL BE PERFORMED AND INSTALLED PER THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL CODES, LAWS, REGULATIONS,
- INSPECTION AGENCIES, UTILITY COMPANIES AND OTHER AUTHORITIES HAVING JURISDICTION. H. CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES TO PRICE AND SCHEDULE AFFECTING
- ANY TRADE RESULTING FROM USE OF NON-BASIS OF DESIGN EQUIPMENT. EQUIPMENT SCHEDULES SHOW BASIS OF DESIGN. ON RENOVATIONS, MECHANICAL CONTRACTOR TO DEMOLISH AND REMOVE ALL MECHANICAL EQUIPMENT, DUCTWORK, SUPPORTS, CONTROLS, PIPING, ETC. NOT REUSED IN THE FINAL DESIGN. OUTDOOR DESIGN CONDITIONS: SUMMER: 91 DB, 73 WB. WINTER: 6 DB. GENERAL ROOM DESIGN CONDITIONS: SUMMER: 75 DB, 30-60% RH. WINTER:
- ALL EQUIPMENT AND COMPONENTS INSTALLED IN AN AIR PLENUM SHALL BE ON ONE-FOR-ONE EQUIPMENT REPLACEMENT PROJECTS, CONTRACTOR SHALL VERIFY THAT EQUIPMENT BEING INSTALLED AT EACH LOCATION IS SIMILAR IN SIZE TO EQUIPMENT PREVIOUSLY IN THAT LOCATION.
- WITH OTHER TRADES. LOCATE WALL OPENINGS FOR DUCTS, GRILLES, AIR TRANSFER OPENINGS PIPING, ETC. CENTERED BETWEEN FRAMING MEMBERS WHEN POSSIBLE FOR ALL ROOF-MOUNTED MECHANICAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE THE CURB, CUT THE ROOF OPENING, AND PROVIDE ROOFING AND ROOF FLASHING AROUND CURB SO THAT ROOF WARRANTY IS MAINTAINED. ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH

COORDINATE LOCATIONS OF ALL HVAC EQUIPMENT AND ACCESSORIES

ROOF INSULATION OR MEMBRANE AND SUPPORTED ON STRUCTURE UNLESS NOTED OTHERWISE. ALL TRANSFER AIR DUCTS SHALL HAVE INTERIOR DUCT LINING. REFER TO THE SPECIFICATIONS FOR DUCT LINING REQUIREMENTS.

ALL TRADES. TOPS OF ROOF CURBS SHALL BE 12" ABOVE TOP LAYER OF

- ALL DUCT FITTINGS SHALL BE LO-LOSS FITTINGS. ROUND TAPS INTO SQUARE DUCT SHALL BE CONICAL OR BELLMOUTH. SQUARE ELBOWS AND SQUARE OR RECTANGULAR SPLITTERS SHALL USE TURNING VANES. NON-SQUARE ELBOWS SHALL HAVE A MINIMUM RADIUS OF 1.5 TIMES THE RADIUS OF THE DUCT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIRMENTS. WHEN PENETRATING A NON-FIRE RATED WALL OR FLOOR WITH DUCTWORK OR PIPING, SEAL ANNULAR SPACE BETWEEN WALL/FLOOR AND MECHANICAL MATERIALS WITH NON-COMBUSTIBLE FIBERGLASS
- INSULATION AND JOINT SEALANTS APPROPRIATE FOR SIZE AND DEPTH AND SOUND ATTENUATION CONSIDERATION. REFER TO ARCHITECTURAL SPECIFICATIONS FOR NON FIRE RATED JOINT SEALANTS. ALL FLOOR MOUNTED MECHANICAL EQUIPMENT SHALL BE INSTALLED ON A CONCRETE EQUIPMENT PAD. BALANCE AIR HANDLING UNIT MINIMUM OUTSIDE AIR TO THE OUTSIDE AIRFLOWS INDICATED ON THE VENTILATION SCHEDULE.
- LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR
- W. WHEN ABOVE A GYPSUM CEILING, PROVIDE HARD DUCT CONNECTION AT AIR DEVICE AND USE SHEETMETAL SCREWS AND DUCT SEALANT. DO NOT USE FLEX OR WIRE TIE AT FINAL AIR DEVICE CONNECTION WHEN ABOVE A HARD CEILING.
- THE USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO AIR DEVICE CONNECTIONS AND BE A MAXIMUM OF 60" IN LENGTH. ALL 90° ELBOWS SHALL BE SHEET METAL. TURNING VANES SHALL BE INSTALLED IN ALL MITERED SUPPLY DUCT
- MAINTAIN REQUIRED CLEARANCES FROM EXHAUST AND VENT LOCATIONS TO OUTSIDE AIR INTAKE AND OPERABLE DOORS & WINDOWS. PROVIDE DUCT LINER PER SPECIFICATIONS FOR ALL SUPPLY DUCT WITHIN 10' OF CONNECTION TO ALL AIR HANDLING EQUIPMENT INCLUDING ROOFTOP UNITS, FAN COILS, HEAT PUMPS, AND AIR HANDLERS.
- CC. THERMOSTATS SHALL BE MOUNTED WITH BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON THERMOSTAT INSTALLATION DETAIL ON ELECTRICAL SHEETS. DUCTS CONNECTING TO INLET AND DISCHARGE OF VAV BOXES SHALL BE SAME SIZE AS BOX CONNECTION.

**ABBREVIATIONS** LOCAL OPERATING NETWORK LOW PRESSURE LOCKED ROTOR AMPS LEAVING WET BULB TEMPERATURE LEAVING WATER TEMPERATURE MEASUREMENT AND VERIFICATION MIXED AIR MIXED AIR TEMPERATURE MOTOR CONTROL CENTER MCC MAKE-UP AIR UNIT MULTI-ZONE NORMALLY CLOSED NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEMA NORMALLY OPEN NET POSITIVE SUCTION HEAD NPSH OUTSIDE AIR OUTSIDE AIR PERCENTAGE OUTSIDE AIR TEMPERATURE ODP OPEN DRIP PROOF OPERATOR WORK STATION PERFORMANCE CONTRACTING PROFESSIONAL ENGINEER PRE-HEAT PROPORTIONAL INTEGRAL DERIVATIVE PRESSURE RELIEF VALVE PRESSURE REDUCING VALVE PACKAGED TERMINAL AIR CONDITIONER RETURN AIR RETURN FAN REHEAT RELATIVE HUMIDITY REVOLUTIONS PER MINUTE RESISTANCE TEMPERATURE DETECTOR RTU ROOF TOP UNIT SUPPLY AIR SUPPLY AIR TEMPERATURE SEER SEASONAL ENERGY EFFICIENCY RATIO SUPPLY FAN SENSIBLE HEAT RATIO SET POINT STATIC PRESSURE THERMOSTAT THERMOSTATIC EXPANSION VALVE TIME OF DAY THERMOSTATIC EXPANSION VALVE UNIT HEATER ULTRAVIOLET UNIT VENTILATOR VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED PUMP(ING) WET BULB WATER COLUMN YEAR TO DATE

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**HAMMITT** 

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WILLI MEDIA 500 C

ISSUANCES

05-19-23 PERMIT & BID SET

**MECHANICAL** 

SCHEDULES,

LEGENDS,

DETAILS, AND

**FLOORPLANS** 

COMM NO. 2023044.01

5/19/23

**△** ○

#### SYMBOLS AND ABBREVIATIONS LEGEND (THERE MAY BE SYMBOLS LISTED IN THIS LEGEND THAT ARE NOT USED IN THIS SET OF DRAWINGS)

PIPING SYMBOLS DESCRIPTION ——HHWS—— HEATING HOT WATER SUPPLY PIPING ——HHWR—— HEATING HOT WATER RETURN PIPING ——CHWR—— CHILLER WATER RETURN PIPING ———CWS——— CONDENSER WATER SUPPLY PIPING ———GLS——— GEO-THERMAL LOOP SUPPLY PIPING ———GLR——— GEO-THERMAL LOOP RETURN PIPING ———COND——— CONDENSATE DRAIN PIPING -----RS/L------ REFRIGERANT SUCTION/LIQUID PIPING ——⊸ BALL VALVE ——─── BUTTERFLY VALVE ——— CIRCUIT BALANCING VALVE ——— CHECK VALVE PRESSURE REDUCING VALVE PRV-# 3-WAY VALVE

────────────── MOTORIZED 3-WAY CONTROL VALVE SOLENOID VALVE WYE STRAINER → PIPE CONTINUATION POINT OF CONNECTION

———₩—— MOTORIZED CONTROL VALVE

POINT OF REMOVAL

KEYNOTE NOTE

#### DUCTWORK SYMBOLS

LINEAR DIFFUSER SUPPLY DIFFUSER

EXHAUST GRILLE VAV BOX (WITH CLEARANCE BOX SHOWN)

RETURN GRILLE

BALANCING DAMPER

SMOKE DAMPER

BACKDRAFT DAMPER

FIRE DAMPER

MOTORIZED CONTROL DAMPER

\_\_\_\_ INTERNALLY LINED DUCTWORK

FABRIC DUCTWORK | | | | | | FLEXIBLE DUCTWORK

# **CONTROL SYMBOLS**

- F THERMOSTAT
- © CARBON DIOXIDE SENSOR
- HUMIDITY SENSOR
- > VOC SENSOR
- © COMBINATION THERMOSTAT / HUMIDITY SENSOR ② CARBON MONOXIDE SENSOR

M000

0'-1" REFERENCE LIN

LIGHTING FIXTURE TAGS - CAPITAL LETTER WITH NUMBER LIGHT FIXTURE SCHEDULE BELOW. - SMALL LETTER DENOTES SWITCH LAYOUTS.

LIGHTING FIXTURE LEGEND DENOTES FIXTURE TYPE - REFER TO LEG/RELAY NUMBER - REFER TO E100 SERIES DRAWINGS FOR TYPICAL ROOM

WIRING METHODS SCHEDULE

**LOCATION** 

FINISHED SPACES (SEE NOTE A) SURFACE RACEWAY

UNFINISHED SPACES (SEE NOTE A) EMT

CMU WALLS

METAL STUD PARTITIONS

FINAL CONNECTION TO

MOTORIZED EQUIPMENT

FINAL CONNECTION TO

MOTORIZED EQUIPMENT

ALL OTHER LOCATIONS

**ELECTRICAL SERVICE CALCULATIONS** ALL EQUIPMENT AND FEEDERS ARE EXISTING TO REMAIN. PROJECT SCOPE IS LIMITED TO BRANCH

CIRCUIT MODIFICATIONS.

BRANCH CIRCUITS

ABOVE ACCESSIBLE CEILINGS

**APPLICATION** 

CONCEALED

**EXPOSED** 

**BELOW** 

GRADE

ABOVE

GRADE

EXISTING

STANDARD LIGHTING FIXTURE SYMBOLS 2'x4' RECESSED TROFFER LINEAR PENDANT 2'x2' RECESSED TROFFER RECESSED DOWNLIGHT CYLINDRICAL PENDANT 1'x4' RECESSED TROFFER

**ALLOWABLE CONDUIT** 

AND RACEWAY TYPE

EMT AND MC

EMT AND MC

FMC (PLENUMS)

LFMC

IMC AND RSC

A) UNFINISHED SPACES INCLUDE DEDICATED UTILITY ROOMS ONLY. UNLESS OTHERWISE INDICATED ON DRAWINGS, TREAT ALL OTHER SPACES AS FINISHED SPACES.

LFMC (NON-PLÉNUMS)

**EMERGENCY LIGHTING FIXTURES** - GRAY FILLED IN AREA DENOTES EMERGENCY FIXTURE.

- NL DENOTES NIGHT LIGHT.

CONDUIT

ALUMINIUM

ALUMINIUM

GALVANIZED

MALLEABLE

IRON

**TYPE** 

NEMA 1

NEMA 1

NEMA 3R

**BODIES** 

**BOXES** 

STEEL METAL

STEEL METAL

GALVANIZED

MALLEABLE

IRON

ENCLOSURE | FASTENERS/ | CONDUIT AND

ZINC PLATED

ZINC PLATED

GALVANIZED

200-4

<u>DPLA</u> 800A, 120/208V, 3PH

800A

200-4

**SUPPORTS** | RACEWAY NOTES:

-MINIMUM CONDUIT SIZE 3/4"C

-MINIMUM SIZE 3/4"C

-MINIMUM SIZE 1"C

CONNECTION.

-DO NOT ROUTE BRANCH CIRCUITS UNDER

SLAB UNLESS OTHERWISE NOTED ON THE

-CONDUIT SHALL ENTER FROM SIDE OR

-PROVIDE WATERTIGHT HUBS FOR CONDUIT

BOTTOM WHERE PRACTICAL.

EXIT SIGN - SHADED AREA DENOTES FACE CONNECT TO EMERGENCY POWER CIRCUIT AHEAD OF SWITCHING. 2'x4' RECESSED TROFFER - NIGHT LIGHT

E10 남 DUAL HEAD EMERGENCY FIXTURE

- ARROW DENOTES ARROW DIRECTION - WHEN ON WALL, MOUNT NO HIGHER THAN 6" ABOVE TOP OF NEAREST DOORWAY

**GENERAL NOTES - LIGHTING FIXTURES** 

- A. ALL FIXTURES MARKED 'ED' ARE EXISTING TO BE DEMOLISHED. VERIFY SERVING PANEL AND CIRCUIT NUMBER PRIOR TO DISCONNECTION. REMOVE LIGHTING BRANCH CIRCUITING ABOVE FINISHED CEILING. MAINTAIN HOME RUN CONDUIT FOR CONNECTION TO NEW FIXTURES.
- B. ALL FIXTURES MARKED 'ER' ARE EXISTING TO REMAIN. FIXTURES SHALL BE CLEANED AND RELAMPED.
- C. ALL FIXTURES MARKED 'ERL' ARE EXISTING TO BE RELOCATED. FIXTURES SHALL BE CLEANED AND RELAMPED.

			LIGHT FIXTUR	RE SCHED	ULE - INTERIOR								
FIXTUR TYPE	FIXTURE BASIS OF DESIGN	ALTERNATE MANUFACTURERS	FIXTURE DESCRIPTION	LAMP	LIGHT DISTRIBUTION	MIN LUMEN	COLOR TEMPERATURE	MIN CRI	DRIVER	VOLTAGE	MAX WATTAGI	MOUNTING METHOD	TYPE COMMENTS
D22	PRESCOLITE LF6SL	INDY L6, LSI LAD6, PHILIPS LIGHTOLIER OM6LED, PORTFOLIO LD6	RECESSED DOWN LIGHT, ROUND, PAINTED WHITE TRIM, SEMI-SPECULAR ALZAK REFLECTOR, 6" DIAMETER	LED	STANDARD	2000 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	277 V	25 VA	CEILING RECESSED	
R24X	FOCAL POINT SKYDOME FSDEP-2-FL-3000DN-1000UP-40K-1C-UNV-LD1-C48-WH	APPROVED EQUALS	DECORATIVE PENDENT, 24" DIAMTER	LED	UP/DN	2500 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	277 V	29 VA	CABLE MOUNTED	REFER TO ARCHITECTURAL DRAWINGS.
R36NP	FOCAL POINT SKYDOME AUSDEP-3-C48-SDG-WH	APPROVED EQUALS	DECORATIVE ACOUSTIC PENDENT, 36" DIA, 48" AIRCRAFT CABLE, MATTE SATIN WHITE FINISH	N/A	N/A	0 lm	0 K	0	N/A	0 V	0 VA	CABLE MOUNTED	REFER TO ARCHITECTURAL DRAWINGS.
R48	LUMENWERX CURVIA2RIP-DI-4-HLO-SW-80-750-750-40-UNV-D1-1C-W AC-W-MC-W	APPROVED EQUALS	RING PENDENT FIXTURE, UP/DN LIGHT, FINISH SELECTED BY ARCHITECT, 48" DIAMETER	LED	750 LPF UP, 750 LPF DN	3000 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	277 V	44 VA	CABLE MOUNTED	REFER TO ARCHITECTURAL DRAWINGS.
R60	LUMENWERX CURVIA2RIP-DI-5-HLO-SW-80-750-750-40-UNV-D1-1C-W AC-W-MC-W	APPROVED EQUALS	RING PENDENT FIXTURE, UP/DN LIGHT, FINISH SELECTED BY ARCHITECT, 60" DIAMETER	LED	750 LPF UP, 750 LPF DN	3750 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	277 V	56 VA	CABLE MOUNTED	REFER TO ARCHITECTURAL DRAWINGS.
R72	LUMENWERX CURVIA2RIP-DI-6-HLO-SW-80-750-750-40-UNV-D1-1C-W	APPROVED EQUALS	RING PENDENT FIXTURE, UP/DN LIGHT, FINISH SELECTED BY ARCHITECT, 72" DIAMETER	LED	750 LPF UP, 750 LPF DN	4500 lm	4000 K	80	LED DRIVER WITH 0-10V DIMMING	277 V	66 VA	CABLE MOUNTED	REFER TO ARCHITECTURAL DRAWINGS.

CONDUCTOR AND CONDUIT COLOR CODING

NEUTRAL CONDUCTOR GREY (480V), WHITE (208V)

ELECTRICAL METALLIC TUBING

LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT

INTERMEDIATE METAL CONDUIT

FLEXIBLE METALLIC CONDUIT

RIGID NONMETALLIC CONDUIT

METAL CLAD CABLE

RIGID STEEL CONDUIT

BROWN (480V), BLACK (208V)

ORANGE (480V), RED (208V)

YELLOW (480V), BLUE (208V)

**GREEN** 

RED

WHITE

BLUE

YELLOW

APPLICATION

PHASE A CONDUCTOR

PHASE B CONDUCTOR

PHASE C CONDUCTOR

GROUND CONDUCTOR

CONTROL CONDUCTOR, 120\

CONTROL CONDUCTOR, NEU

**CONTROL CONDUCTOR, 24V** 

CONTROL CONDUCTOR,

EXTERNAL SOURCE

DIMMER

200-4

200-4

200-4

400-4

200-4

200-4

#### ELOOP POY LECEND

	FLOOR BOX LEGEND
O PT#	POKE-THRU TYPE FLOOR BOX WITH FLUSH STYLE COVER - FINISH SELECTED BY ARCHITECT. REFER TO SPECIFICATIONS FOR DETAILS.
	PT1 2 GANG, MULTIPLE SERVICE - POWER, DATE
<u>NOTES</u>	
I	

1) COORDINATE EXACT FLOOR BOX LOCATIONS WITH ARCHITECTURAL FLOOR PLANS

#### DRAFTING SYMBOL LEGEND

SYMBOL	DESCRIPTION			
$\langle \mathbf{x} \rangle$	DRAWING KEY NOTE ONLY NOTES THAT APPLY APPEAR ON EACH SHEET. KEY NOTE NUMBERS ARE CONSISTENT FROM SHEET TO SHEET, AND THEREFORE MAY NOT APPEAR IN NUMERICAL ORDER.			
2 E501	DETAIL CALLOUT REFER TO DETAIL 2 ON SHEET E501			

#### WIRING DEVICE LEGEND

	WIRING DEV	ICE LEGEND		
	JNTING HEIGHT OF BACK TTED, DEFAULT MOUNTI		TOM OF BOX. IF	
DUPLEX	XX INDICATES SPECIAL NOTE (IF USED)			
₩ DOUBLE- DUPLEX	TV TV DUPLEX (COORDINATE WITH ARCHTECTURAL)			
J JUNCTION BOX	J INDICATES DEVICE DESIGNATION (IF USED)  JB JUNCTION BOX			
GFI	GFI ₩	•	•	
GROUND FAULT PROTECTED	GROUND FAULT PROTECTED, ABOVE COUNTER	ABOVE COUNTER	SPECIALTY RECEPTACLE	

	MOUNTING HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF		
		HEIGHT OF BACKBOX, RELATIVE TO BOTTOM OF BOX. IF EFAULT MOUNTING HEIGHT IS 16"	
XX/44"	XX IND	DICATES TYPE OF TECHNOLOGY OUTLET	
DATA DROP WITH DEVICE	TECH	NOLOGY OUTLET TYPES	
XXI44"	1D 2D TV WAP	(1) DATA OUTLET (2) DATA OUTLETS TELEVISION WIRELESS ACCESS POINT	

#### **COMMUNICATION SYMBOL LEGEND**

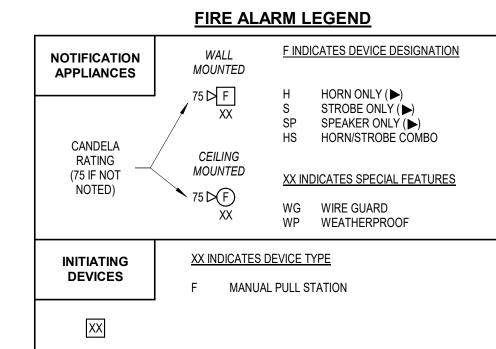
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
©M)	CLASSROOM SOUND SYSTEM MICROPHONE	CEILING MOUNTED
(CS)	CLASSROOM SOUND SYSTEM	CEILING MOUNTED
PA	PUBLIC ADDRESS SPEAKER	CEILING MOUNTED
(SV)	PUBLIC ADDRESS SPEAKER WITH VOLUME CONTROL	CEILING MOUNTED

#### ABBREVIATION LEGEND

<u>COMMON I</u>	ELECTRICAL ABBREVIATIONS AND NOTATIONS
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALT	ALTERNATE
С	CONDUIT
CM	CONSTRUCTION MANAGER
CU	COPPER
DS	DISCONNECT SWITCH
EC	ELECTRICAL CONTRACTOR
ED	EXISTING TO BE DEMOLISHED EMERGENCY
EM EDO	EMERGENCY EMERGENCY PUSH OFF
EPO ER	EXISTING TO REMAIN
EDI	EXISTING TO REMAIN  EXISTING TO BE RELOCATED
GC	GENERAL CONTRACTOR
GND	GROUND
LPF	
LTS	
	LOW VOLTAGE
	MAIN CIRCUIT BREAKER
	MAIN LUGS ONLY
MRTS	MOTOR RATED TOGGLE SWITCH
	ON CENTER
TGB	TECHNOLOGY GROUND BAR
TR	TECHNOLOGY RACK
TYP	TYPICAL
	UNLESS NOTED OTHERWISE
	VOLT-AMPERE
VFD	
	WIREGUARD
WP	WEATHERPROOF
XFMK	TRANSFORMER

#### **LIGHTING CONTROL SYMBOL LEGEND**

SYMBOL	DESCRIPTION	MOUNTING HEIGHT				
0	<u>LIGHTING CONTROL</u> OCCUPANCY SENSOR	CEILING MOUNTED				
XX INDICA	XX INDICATES SWITCH TYPE. IF OMITTED, SWITCH IS SINGLE POLE.					
LIGHTING SWITCH	SWITCH TYPES					
# OF "\$" INDICATES NUMBER OF SWITCHES	3 3 WAY D DIMMING SWITCH					



#### **GENERAL NOTES: - APPLIES TO ALL ELECTRICAL DRAWINGS**

EC MAY COMBINE MULTIPLE CIRCUITS INTO HOME RUNS. NO MORE THAN 3 CIRCUITS SHALL BE IN EACH

- EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF THESE DEVICES. IF SHOWN
- HOME RUN CONDUIT, AND THE WIRE MUST BE DERATED IN ACCORDANCE WITH NEC. THESE CIRCUITS SHALL BE REQUIRED TO BE ON SEPARATE PHASES (A,B,C).

С.	EC SHALL UPSIZE WIRE IN LONG RUNS ACCORDING TO THE WIRE SIZING TABLE SHOWN BELOW

ZE WINE IN LOING	NONS ACCORDIN	IG TO THE W	IIVE SIZIING	IADLL SITO
	WIRE SIZI	NG CHA	RT	
RUN L	CIRC	CUIT BREA	KER	
120V	277V	20A	30A	40A
000-100'	000-200'	12	10	8
101-150'	201-300'	10	8	6
151-200'	301-450'	8	6	4

- WHERE ELECTRICAL LOAD ON A CIRCUIT IS OVER 20 AMPERES, EACH CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT TO THE PANELBOARD.
- WHERE WIRES RUN BACK TO A COMPUTER PANELBOARD, EACH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL BACK TO THE PANEL.
- WHERE A TV OUTLET IS INDICATED ON THE DRAWINGS, BOTH THE TV OUTLET AND THE ASSOCIATED RECEPTACLES SHALL BE MOUNTED APPROXIMATELY 8" BELOW THE TOP OF EACH DISPLAY, UNLESS SPECIFIED OTHERWISE.
- G. ALL VAV BOXES, EXHAUST FANS, MOTORS, MISC. HVAC EQUIPMENT, APPLIANCES, ETC. INDICATED ON THESE DRAWINGS SHALL HAVE A MOTOR RATED SWITCH LOCATED NEAR THE MOTOR FOR SERVICING. PROVIDE DISCONNECTING MEANS AS REQUIRED BY THE NEC.
- EMERGENCY CIRCUITS SHALL BE INSTALLED IN A SEPARATE CONDUIT SYSTEM. ALL DATA OUTLETS REQUIRE A MINIMUM OF 1" CONDUIT STUB TO ABOVE CEILING. PROVIDE A 3-1/2"
- HEIGHT DIMENSIONS SHOWN ON THIS PLAN ARE MEASURED FROM THE BOTTOM OF THE DEVICE. HORIZONTAL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE OR GROUP OF DEVICES WHICH THE DIMENSION PERTAINS TO.
- GROUPINGS OF DEVICES LOCATED ON THE SAME WALL AT THE SAME ELEVATION SHALL BE PLACED SO THAT THE HORIZONTAL DISTANCE BETWEEN DEVICES IS NO GREATER THAN 4". PROVIDE ADDITIONAL SUPPORTS AS REQUIRED.
- FOR LIGHT FIXTURE MOUNTING DETAILS, SEE LUMINAIRE SCHEDULE.

DEEP BOX MINIMUM FOR ALL DATA OUTLETS.

CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES TO PRICE AND SCHEDULE AFFECTING ANY TRADE RESULTING FROM USE OF NON-BASIS OF DESIGN EQUIPMENT.

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MEDIA CENTER I
500 SOUTH 5TH STREET, WILL

> **ISSUANCES** 05-19-23 PERMIT & BID SET

**ELECTRICAL** LEGENDS

DATE 5/19/23

COMM NO. 2023044.01

PARTIAL SINGLE LINE DIAGRAM

MSB 2000A, 277/480V, 3PH

#### **KEYNOTES**

- ED1 DISCONNECT AND REMOVE EXISTING WALL MOUNTED LIGHT FIXTURE. REMOTE BALLAST, AND ALL ASSOCIATED CONDUIT AND WIRING. VERIFY EXACT REQUIREMENTS IN FIELD.
- ED2 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRING. MAINTAIN CONTINUITY OF EXISTING CIRCUIT. VERIFY EXACT REQUIREMENTS IN FIELD.
- ED3 DISCONNECT AND REMOVE EXISTING RECEPTACLE AND ALL ASSOCIATED
- ED4 DISCONNECT AND REMOVE EXISTING TECHNOLOGY DEVICE AND ALL
- EL3 CONNECT TO EXISTING CIRCUIT MADE AVAILABLE THROUGH DEMOLITION AND
- EP1 CONNECT TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION. (A2L3-40).
- EP2 CONNECT TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION. (A2L3-42).
- EP4 CONNECT TO EXISTING RECEPTABLE CIRCUIT. VERIFY EXACT REQUIREMENTS IN
- EP5 VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND DETAILS.
- ARCHITECT/INTERIOR DESIGNER.
- AND PROVIDE COVERAGE PER NFPA 13 LIGHT HAZARD OCCUPANCY.

- CONDUIT AND WIRING. VERIFY EXACT REQUIREMENTS IN FIELD.
- ASSOCIATED CONDUIT AND WIRING. VERIFY EXACT REQUIREMENTS IN FIELD.
- WIRE THROUGH NEW DIMMER SWITCH.
- EP3 CONNECT TO EXISTING CIRCUIT MADE AVAILABLE BY DEMOLITION. (A2H2-9).
- EP6 DISCONNECT AND REPLACE EXISTING DEVICES WITH NEW. RECONNECT BRANCH CIRCUITS AND CONDUIT AS REQUIRED. VERFIY EXACT FINISH WITH
- FP1 RELOCATE EXISTING SPRINKLERS AS NEEDED TO ACCOMMODATE NEW CEILING

#### **GENERAL LIGHTING NOTES:**

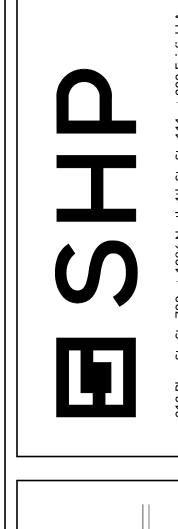
A. EXIT SIGNS SHALL BE CONNECTED AHEAD OF ALL SWITCHING.

#### **GENERAL POWER NOTES:**

- A. EC SHALL BE RESPONSIBLE TO INSTALL A SWITCH BOX AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING IN EACH ROOM FOR TEMPERATURE CONTROL THERMOSTAT. DEVICES SHOWN ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY. REFER TO THE M SERIES DRAWINGS FOR THERMOSTAT LOCATIONS.
- B. EC SHALL BE RESPONSIBLE FOR TECHNOLOGY ROUGH-IN LOCATIONS. C. ALL 15A AND 20A, 125V AND 250V, NON-LOCKING TYPE RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12 SHALL BE TAMPER-RESISTANT RECEPTACLES.

#### **DEMOLITION DRAWING NOTES**

- A. DRAWING IS BASED ON FIELD OBSERVATIONS AND EXISTING DRAWINGS. NOTIFY CM OF DISCREPANCIES DUE TO ACTUAL FIELD CONDITIONS BEFORE PROCEEDING.
- B. FIXTURES, DEVICES, AND EQUIPMENT DENOTED BY BOLD, DASHED LINE TYPE OR LABELLED BY ED GENERALLY INDICATES EQUIPMENT TO BE DEMOLISHED. REFER TO DRAWING NOTES AND KEYNOTES FOR FULL EXTENT OF ASSOCIATED DEMOLITION WORK AND ITEMS TO REMAIN. UNLESS OTHERWISE NOTED, REMOVE WIRING BACK TO ABOVE FINISHED CEILING. MAINTAIN CIRCUITS FOR CONNECTION TO NEW DEVICES.
- C. PROVIDE BLANK COVERS FOR RECESSED BACKBOXES MADE AVAILABLE THROUGH DEMOLITION, UNLESS NOTED FOR REUSE.



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SAMUEL H.

WILLIAMSBURG HIGH SCHOO

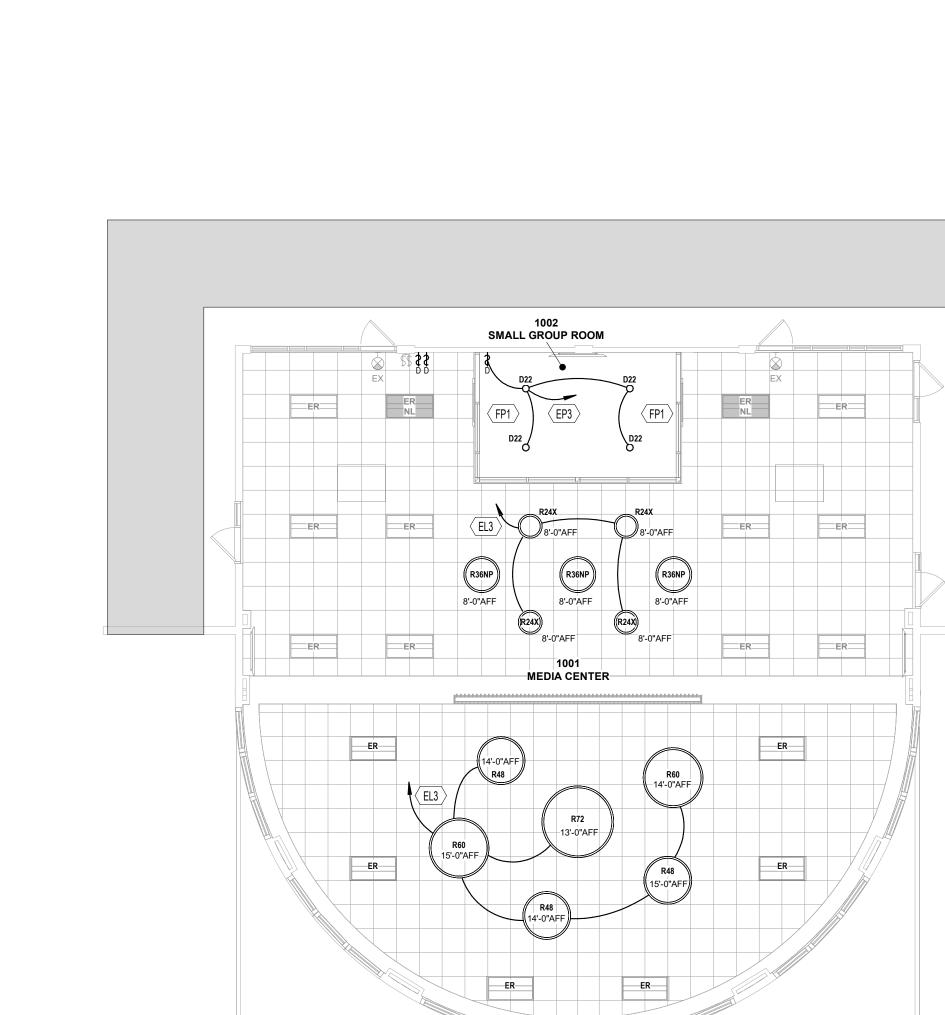
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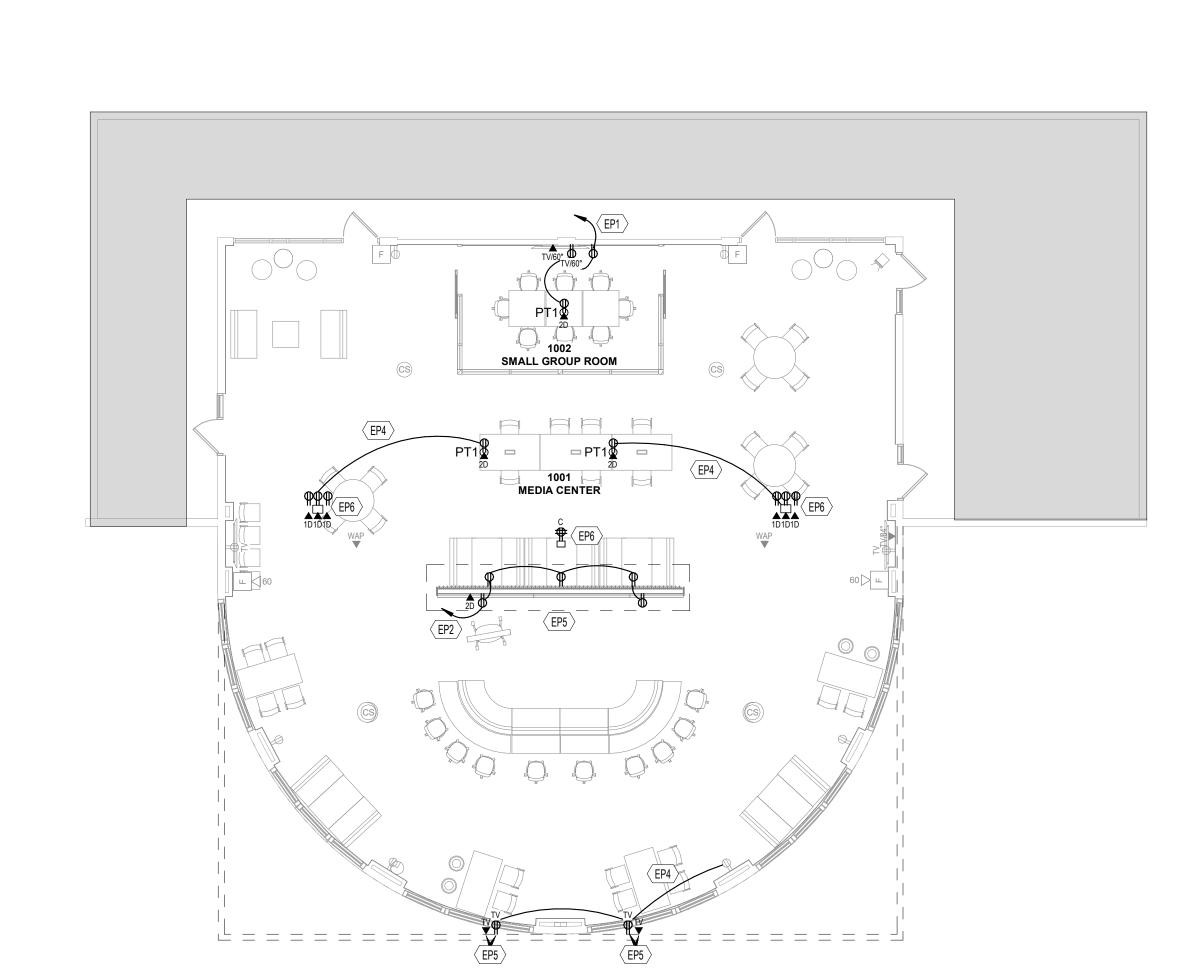
ELECTRICAL / PROTECTION **PLANS** 

5/19/23

COMM NO. 2023044.01 EFP100



3 FLOOR PLAN - LIGHTING & FIRE PROTECTION



2 FLOOR PLAN - POWER AND FIRE ALARM

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FLOOR PLAN - DEMOLITION