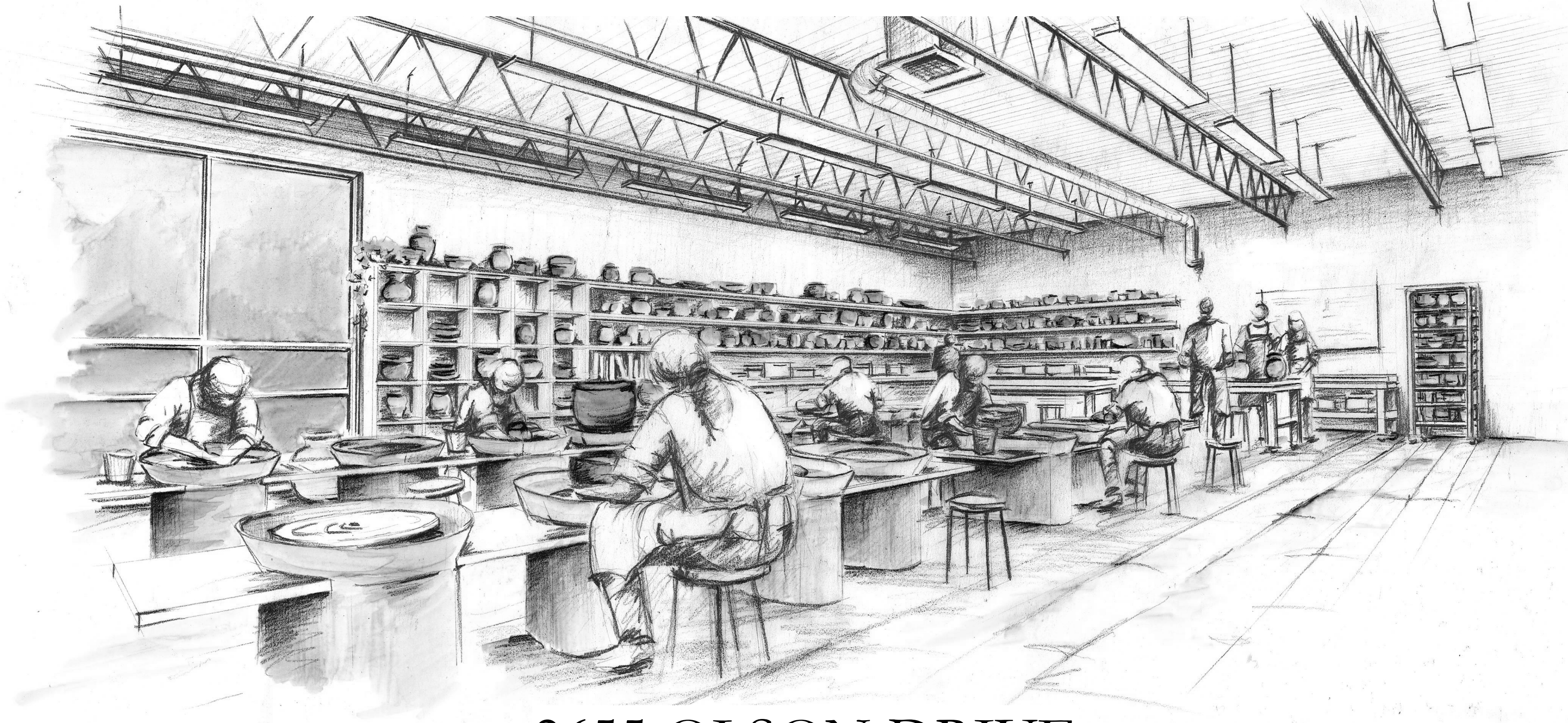


# CITY OF KETTERING

## ROSEWOOD ARTS CENTER



2655 OLSON DRIVE  
 KETTERING, OH 45420  
 01/26/22  
 COMMISSION # 20605.00

### INTERIOR RENOVATION - PHASE 2

GENERAL CONTRACTOR:

STRUCTURAL:

PME:

CONSULTANT:

CONSULTANT:

CONSULTANT:

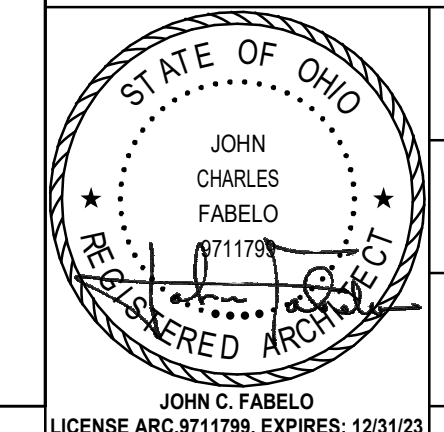
No.	Revisions / Submissions	Date

**LWC**  
 INCORPORATED  
 434 East First Street Dayton, OH 45402 937.223.6500  
 712 East Main Street Richmond, IN 47374 765.966.3546

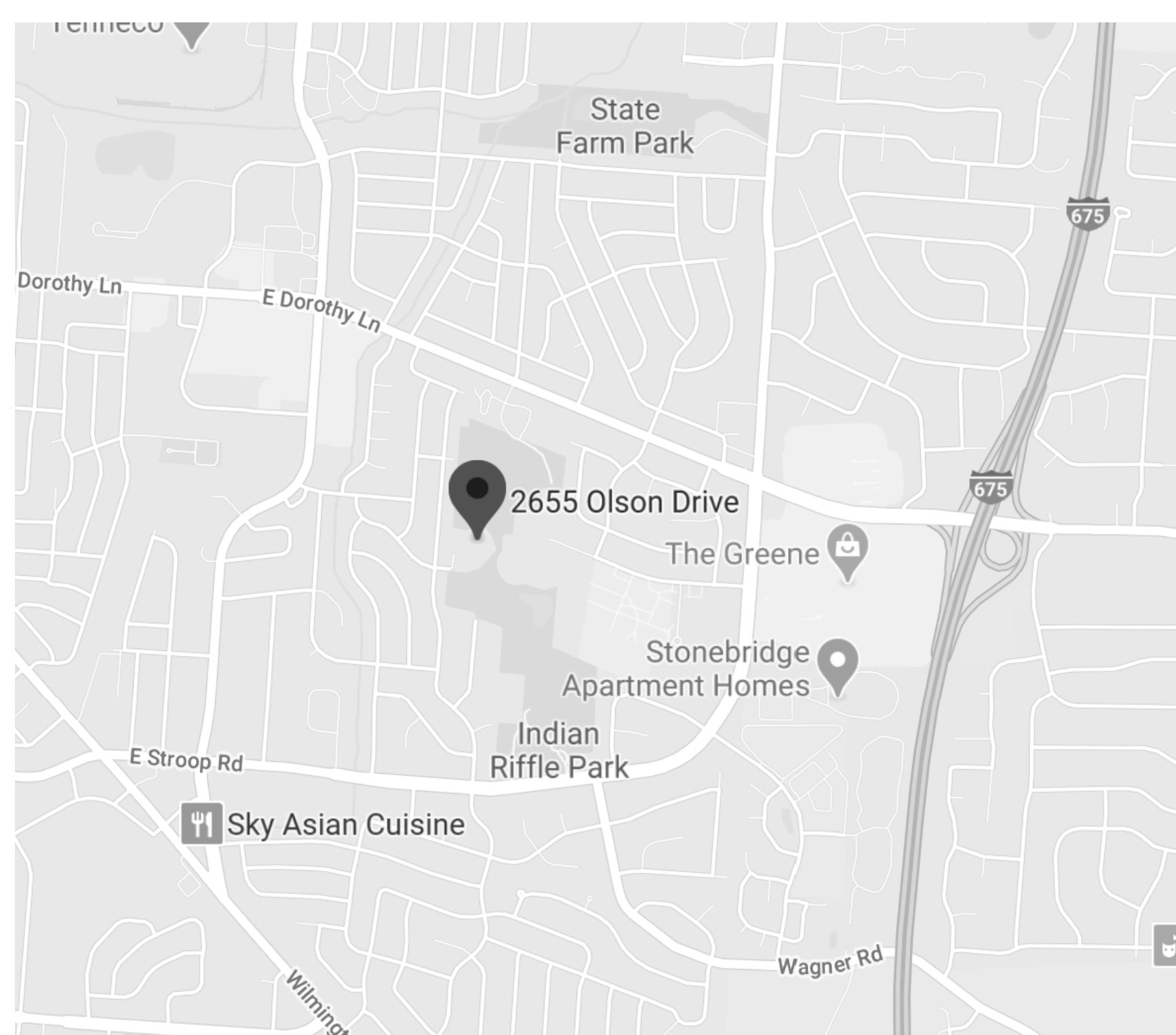
CITY OF KETTERING  
 ROSEWOOD ARTS CENTER  
**INTERIOR RENOVATION  
 PHASE 2**  
 2655 OLSON DRIVE  
 KETTERING, OH 45420

**TITLE SHEET**

Comm. No.	Date
20605.00	2022/01/26
Drawn	Drawing No.
DJB	2.T001
Checked	EGS



DRAWING INDEX	
SHEET NO.	SHEET NAME
2.T001	TITLE SHEET
2.S001	TYPICAL PARTITION DETAILS
2.S001	STRUCTURAL NOTES
2.S102	FOUNDATION PLAN
2.S202	ROOF FRAMING PLAN
2.S302	STRUCTURAL DETAILS
2.A0101	DEMOLITION FLOOR PLAN
2.A0201	DEMOLITION CEILING PLANS
2.A0301	DOOR SCHEDULE & DETAILS
2.A101	NEW FLOOR PLAN
2.A102	FLOOR FINISH PLAN
2.A201	NEW REFLECTED CEILING PLAN
2.A601	ELEVATIONS
2.A602	ELEVATIONS
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2.P101	PLUMBING DEMOLITION PLAN - PHASE 2
2.P101	PLUMBING PLAN - PHASE 2
2.M001	MECHANICAL LEGEND - PHASE 2
2.M101	MECHANICAL DEMOLITION PLAN - PHASE 2
2.M102	MECHANICAL DEMOLITION PLAN - PHASE 2
2.M101	MECHANICAL PLAN - PHASE 2
2.M102	MECHANICAL ROOF PLAN - PHASE 2
2.M200	MECHANICAL DETAILS - PHASE 2
2.M300	MECHANICAL SCHEDULES - PHASE 2
2.M400	CONTROLS AND VENTILATION CALCULATIONS - PHASE 2
2.E101	ELECTRICAL DEMOLITION PLAN - PHASE 2
2.E101	LIGHTING AND POWER PLAN - PHASE 2
2.E201	POWER PLAN - PHASE 2



VICINITY PLAN

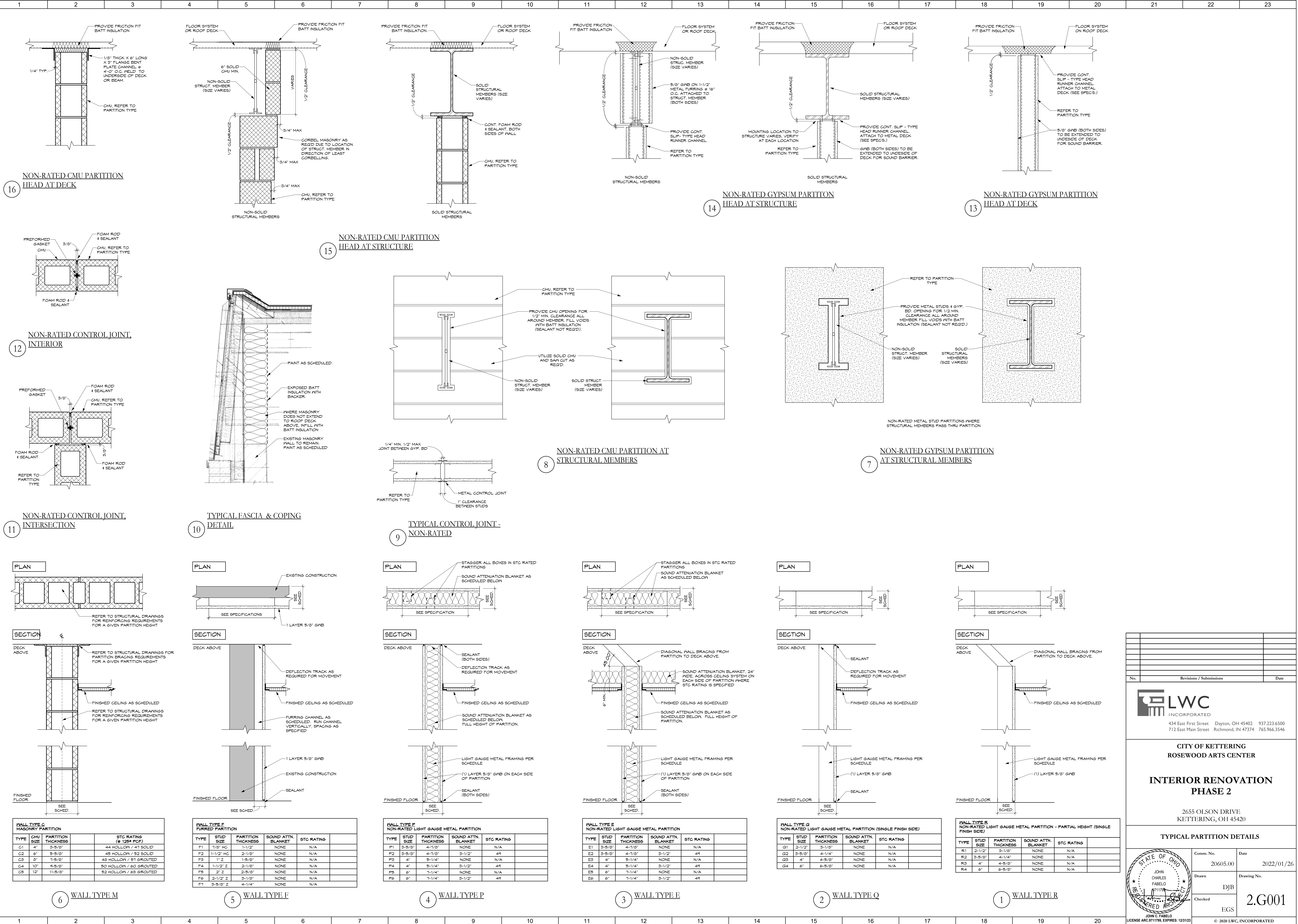


LOCATION PLAN

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16 NON-RATED CMU PARTITION HEAD AT DECK

15 NON-RATED CMU PARTITION HEAD AT STRUCTURE

14 NON-RATED GYPSUM PARTITION HEAD AT STRUCTURE

13 NON-RATED GYPSUM PARTITION HEAD AT DECK

12 NON-RATED CONTROL JOINT INTERIOR

8 NON-RATED CMU PARTITION AT STRUCTURAL MEMBERS

7 NON-RATED GYPSUM PARTITION AT STRUCTURAL MEMBERS

11 NON-RATED CONTROL JOINT INTERSECTION

10 TYPICAL FASCIA & COPING DETAIL

9 TYPICAL CONTROL JOINT - NON-RATED

WALL TYPE M

WALL TYPE F

WALL TYPE P

WALL TYPE E

WALL TYPE Q

WALL TYPE R

TYPE	CMU SIZE	PARTITION THICKNESS	STC RATING (# 125# PCF)
G1	4"	3-5/8"	44 HOLLOW / 41 SOLID
G2	6"	5-5/8"	49 HOLLOW / 52 SOLID
G3	8"	7-5/8"	48 HOLLOW / 51 GROUTED
G4	10"	9-5/8"	50 HOLLOW / 53 GROUTED
G5	12"	11-5/8"	52 HOLLOW / 55 GROUTED

TYPE	STUD SIZE	PARTITION THICKNESS	SOUND ATTN. BLANKET	STC RATING
F1	1-7/8" HG	1-1/2"	NONE	N/A
F2	1-1/2" HG	2-1/8"	NONE	N/A
F3	1" Z	1-5/8"	NONE	N/A
F4	1-1/2" Z	2-1/8"	NONE	N/A
F5	2" Z	3-5/8"	NONE	N/A
F6	2-1/2" Z	3-1/8"	NONE	N/A
FT	3-5/8" Z	4-1/4"	NONE	N/A

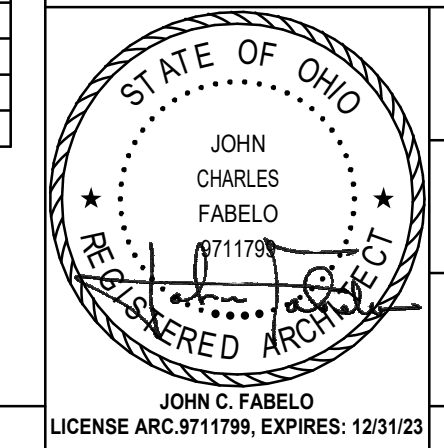
TYPE	STUD SIZE	PARTITION THICKNESS	SOUND ATTN. BLANKET	STC RATING
P1	3-5/8"	4-7/8"	NONE	N/A
P2	3-5/8"	4-7/8"	3-1/2"	48
P3	4"	5-1/4"	NONE	N/A
P4	4"	5-1/4"	3-1/2"	48
P5	6"	7-1/4"	NONE	N/A
P6	6"	7-1/4"	3-1/2"	48

TYPE	STUD SIZE	PARTITION THICKNESS	SOUND ATTN. BLANKET	STC RATING
E1	3-5/8"	4-7/8"	NONE	N/A
E2	3-5/8"	4-7/8"	3-1/2"	48
E3	4"	5-1/4"	NONE	N/A
E4	4"	5-1/4"	3-1/2"	48
E5	6"	7-1/4"	NONE	N/A
E6	6"	7-1/4"	3-1/2"	48

TYPE	STUD SIZE	PARTITION THICKNESS	SOUND ATTN. BLANKET	STC RATING
Q1	2-1/2"	3-1/8"	NONE	N/A
Q2	3-5/8"	4-1/4"	NONE	N/A
Q3	4"	4-5/8"	NONE	N/A
Q4	6"	6-5/8"	NONE	N/A

TYPE	STUD SIZE	PARTITION THICKNESS	SOUND ATTN. BLANKET	STC RATING
R1	2-1/2"	3-1/8"	NONE	N/A
R2	3-5/8"	4-1/4"	NONE	N/A
R3	4"	4-5/8"	NONE	N/A
R4	6"	6-5/8"	NONE	N/A

No.		Revisions / Submissions		Date
<p>434 East First Street Dayton, OH 45402 937.223.6500 712 East Main Street Richmond, IN 47374 765.966.3546</p>				
<p><b>CITY OF KETTERING</b> ROSEWOOD ARTS CENTER</p> <p><b>INTERIOR RENOVATION</b> PHASE 2</p> <p>2655 OLSON DRIVE KETTERING, OH 45420</p>				
TYPICAL PARTITION DETAILS				
Comm. No.	Date	20605.00		2022/01/26
Drawn	Drawing No.	DJB		2.G001
Checked	EGS			



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Table with 24 columns (1-24) and multiple rows. Contains 'SPECIAL INSPECTION NOTES', 'REQUIRED STRUCTURAL SPECIAL INSPECTIONS', and 'Cold Formed (Light Gage) Steel Framing' sections. Includes columns for 'Continuous', 'Periodic', 'Referenced Standard', 'Additional OBC Requirements', and 'Remarks'.

DESIGN CRITERIA NOTES

REFERENCED DESIGN CODE: OHIO BUILDING CODE (2017)  
ENVIRONMENTAL LOADS:  
GROUND SNOW LOAD: Pg = 20 PSF  
FLAT ROOF SNOW LOAD: Pf = 20 PSF  
SNOW EXPOSURE FACTOR: Ce = 1.0  
SNOW LOAD IMPORTANCE FACTOR: Is = 1.0  
THERMAL FACTOR: Ct = 1.0  
WIND LOAD:  
BASIC WIND SPEED (3 SECOND GUST) = 115 MPH  
RISK CATEGORY = II  
WIND EXPOSURE = C  
MEAN ROOF HEIGHT = 12'-0"  
INTERNAL PRESSURE COEFFICIENT = +/- 0.18  
COMPONENT AND CLADDING TO BE USED FOR ALL ITEMS NOT SPECIFICALLY DESIGNED BY ENGINEER OF RECORD (0.6W, SERVICE) = ROOFS = +20 PSF / -44 PSF  
WALLS = +20 PSF / -22 PSF  
EARTHQUAKE LOAD:  
SEISMIC IMPORTANCE FACTOR: Is = 1.0  
MAPPED SPECTRAL ACCELERATION: S1 = 0.072  
SITE CLASS = D (DEFAULT)  
DESIGN SPECTRAL ACCELERATION: SAs = 0.159  
Sd1 = 0.115  
SEISMIC DESIGN CATEGORY = B  
BASIC SEISMIC FORCE-RESISTING SYSTEM (RESPONSE MODIFICATION FACTOR) = R = 1.0  
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE  
PER OBC 3404.4 EXCEPTION, THE EXISTING LATERAL LOAD CARRYING STRUCTURAL ELEMENTS WILL HAVE A DEMAND/CAPACITY RATIO INCREASE OF NO MORE THAN 10% AND SHALL BE PERMITTED TO REMAIN UNALTERED.

DESIGN UNIFORM LOADS:  
DEAD LOAD REFER TO DEAD LOAD TABULATION TABLES  
ROOF LIVE LOAD: 20 PSF (MINIMUM PER OBC SECTION 1607.11.2)  
UNIFORM FLOOR LIVE LOAD (CONCENTRATED) LOAD:  
1. REFER TO OBC 1607.4 FOR CONCENTRATED LOAD APPLICATION AREA  
2. MINIMUM CONCENTRATED LOAD NOTED IN BRACKETETS BELOW ( )  
3. ADD 15 PSF FOR PARTITIONS AS NOTED BELOW (+15 PSF)  
4. LIVE LOAD REDUCTION NOT USED FOR COLUMNS AND FOOTINGS PER 1607.9  
5. IMPACT LOADS - PER OBC 1607.9 AND 1607.13

ART CENTERS:  
SLAB-ON-GRADE: 150 PSF (2000 LBS)  
ELEVATED SLABS PER ORIGINAL 1964 DESIGN DOCUMENTS:  
STAGE FLOORS: 100 PSF  
STAIRS: 100 PSF  
SPECIAL LOADS: SEE PLAN FOR SPECIAL LOADING CONDITIONS

GENERAL STRUCTURAL NOTES

GENERAL (ALL TRADES)  
1. IN ACCORDANCE WITH SECTION 1704 OF THE OHIO BUILDING CODE, SPECIAL INSPECTIONS WILL BE REQUIRED FOR THIS PROJECT. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE 'SPECIAL INSPECTION REQUIREMENTS' SCHEDULE. ALL FABRICATORS SHALL SATISFY THE 'FABRICATOR APPROVAL' PROVISIONS IN SECTION 1704.2.5.1 WHICH REQUIRES THE FABRICATOR TO MAINTAIN AN AGREEMENT A BOARD RECOGNIZED INDUSTRY TRADE ASSOCIATION CERTIFICATION PROGRAM OR A BOARD RECOGNIZED FABRICATOR INSPECTION AGENCY PER 4101.7-6-01 OF OHIO ADMINISTRATIVE CODE. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY CONDITIONS SUBSTANTIALLY DIFFERENT THAN THOSE SHOWN TO THE ENGINEER. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER DISCIPLINES. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLICES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.  
2. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.  
3. SHELL + MEYER ASSOCIATES, INC. SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES, AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK.

POST INSTALLED ANCHORS  
1. INSTALL ALL ANCHORS PER THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS (MIFI).  
2. WHERE NOT INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC.:  
CONCRETE SUBSTRATE - U.N.O. USE 3/4" DIAM. HILTI HIT-HITE 500 V3 ANCHORS OR HIT-Z ANCHOR RODS WITH HIT-HY 200 SAFE SET SYSTEM. ICC ESR-3187. MINIMUM EMBEDMENT 0-4 3/4".  
3. REINFORCING INTO CONCRETE - U.N.O. USE HILTI HIT-RE 500 V3 EPOXY. ICC ESR-3814. MINIMUM EMBEDMENT INTO CONCRETE 4x BAR DIAMETER U.N.O.  
4. GROUDED CONCRETE MASONRY (INSTALLED IN WALL FACE) MIN. 8" GROUT AROUND ALL ANCHORS - U.N.O. USE 3/4" DIAM. HILTI KWIK BOLT 3 ANCHORS. ICC-ES ESR-1385. MINIMUM EMBEDMENT 0-4 3/4".  
5. GROUDED CONCRETE MASONRY (INSTALLED VERTICALLY IN TOP COURSE OF WALL - U.N.O. USE 3/4" DIAM. HILTI KWIK EZEZ SCREW ANCHORS. ICC-ES ESR-3056. MINIMUM EMBEDMENT 0-6 1/4".  
6. UNGROUTED CONCRETE MASONRY - USE THE HILTI HIT-HY-10 ADHESIVE SYSTEM ICC-ES ESR-2892. U.N.O. STEEL ANCHORS SHALL BE 1/2" DIA. HILTI HASSE CONTINUOUSLY THREADED ROD x 0-4" MINIMUM EMBEDMENT. USE TWO APPROPRIATELY SIZED MESH SLEEVES PER ANCHOR.

DIVISION 3 - FOUNDATIONS AND CONCRETE  
1. ALLOWABLE NET SOIL BEARING CAPACITY = 2.500 PSF PER THE 1964 CONSTRUCTION DOCUMENTS.  
2. ALL EXCAVATIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST 'AMERICAN CONCRETE INSTITUTE' INCLUDING THE REQUIREMENTS OF ACI 301, 'SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS'. CONCRETE MIXES SHALL BE DESIGNED PER ACI 301, USING PORTLAND CEMENT CONFORMING TO ASTM C150 OR C266, AGGREGATE CONFORMING TO ASTM C33, AND ADMIXTURES CONFORMING TO ASTM C494, C1017, C681, C698 AND C280. CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 308. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.  
3. CONCRETE SHALL ATTAIN THE FOLLOWING ULTIMATE 28 DAY COMPRESSIVE STRENGTHS:  
3,000 P.S.I. FOR FT. SLABS ON GRADE, WALLS, WALL PIERS  
4,500 P.S.I. FOR EXT. SLABS ON GRADE, WALLS, WALL PIERS  
SLUMP SHALL BE 4" ± 1"  
4. ALL CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED (4.5 TO 5%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C200. MAXIMUM W/C RATIO = 0.45  
5. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 OR ASTM A996, GRADE 60.  
6. TOP OF FOOTING ELEVATIONS SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE PER THE GEOTECHNICAL ENGINEER'S SPECIFICATION. REFER TO SCHEDULES AND DETAILS FOR MINIMUM FOOTING THICKNESSES.  
7. ALLOWANCE - CONTRACTOR SHALL PROVIDE 100% OF ADDITIONAL REINFORCING BARS (#4, #5 AND #6) FOR JOB SITE USE. TO FILL ANY VOIDS IN FORMS. THE DESIGN ENGINEER IS TO DIRECT PLACEMENT OF REINFORCING STEEL.

DIVISION 4 - MASONRY  
1. MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE 'SPECIFICATIONS FOR MASONRY STRUCTURES' (TMS 602-13)' PUBLISHED BY THE MASONRY SOCIETY.  
2. HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C90. COMPRESSIVE STRENGTH OF THE BLOCK SHALL BE A MINIMUM 2,000 PSI.  
3. FILL ALL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH GROUT. GROUT SHALL CONFORM TO ASTM C476 AND SHALL OBTAIN A MINIMUM 28 DAY NET COMPRESSIVE STRENGTH OF 2,500 PSI. UNDER NO CIRCUMSTANCES SHALL MASONRY MORTAR BE IN USE OF GROUT.  
4. ALL MORTAR SHALL MEET THE 'PROPORTION SPECIFICATION' OF ASTM C-270 AND BE MADE WITH PORTLAND CEMENT/LIME (NON AIR-ENTRAINED). THE USE OF MASONRY CEMENT MORTAR IS STRICTLY PROHIBITED. USE TYPE 'S' FOR WALLS BELOW GRADE AND TYPE 'N' FOR ALL OTHER WALLS.  
5. THE MINIMUM 28 DAY NET COMPRESSIVE STRENGTH OF THE MASONRY ASSEMBLY (T OR S) SHALL BE 2,000 P.S.I. AS DETERMINED BY THE UNIT STRENGTH METHOD OF ACI 530.1.  
6. PROVIDE STEEL JOIST AND BEAM BEARING PLATES AND OTHER ACCESSORIES AS INDICATED. PROVIDE (3) COURSES OF SOLIDLY GROUDED CMU OVER A WIDTH OF 2'-8" BELOW ALL BEAM BEARINGS.  
7. HOOK VERTICAL BARS INTO CONTINUOUS BOND BEAMS AT TOP OF WALLS (BELOW JOIST/TRUSS BEARING).

DIVISION 5 - METALS  
1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC RECOMMENDATIONS AND CONFORM TO ANSII/AISC 360-10 AND AISC 360-10 INCLUDED IN THE 4TH EDITION OF THE 'STEEL CONSTRUCTION MANUAL'. STEEL FABRICATORS SHALL BE AN AISC CERTIFIED SHOP AND SHALL SATISFY GENERAL (ALL TRADES) NOTE 1. OTHERWISE SHOP SPECIAL INSPECTIONS WILL BE REQUIRED.  
2. UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING AISC SPECIFICATIONS:  
WIDE FLANGE SECTIONS AND TEES ASTM A992 (50 KSI)  
OTHER ROLLED PLATES/SHEAPES A36 (36 KSI)  
STEEL PIPE ASTM A53 (36 KSI)  
STEEL PIPE A500 Gr. C (48 KSI)  
3. UNLESS NOTED OTHERWISE, BASE PLATE ANCHOR RODS SHALL BE ASTM F1554 (36 KSI). USE NONSHRINK GROUT C1107 (8000 PSI).  
4. STRUCTURAL STEEL CONNECTIONS SHALL CONSIST OF 3/4" DIA. HIGH STRENGTH ASTM F-1552 BOLTS AND/OR WELDS WITH E70-XX ELECTRODES. USE SHEAR TYPE CONNECTIONS SELECTED BY THE FABRICATOR FOR THE UNFACTORED SHEAR FORCES INDICATED ON PLAN IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR ALLOWABLE STRESS DESIGN (ASD). U.N.O. USE 5/8" THICK DOUBLE ANGLE CONNECTIONS. (AS DETAILED IN THE AISC 'MANUAL OF STEEL CONSTRUCTION'), U.N.O. ON STRUCTURAL DRAWINGS.  
5. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 1/4" FILLET WELDS PER AISC REQUIREMENTS.  
6. TYPICAL LINTELS FOR MASONRY OPENINGS SHALL BE AS FOLLOWS, U.N.O. ON PLANS:  
L3 1/2 x 3 1/2 x 5/8" ANGLES, EACH 4" WALL WIDTH, 4-0" OPENING OR LESS (IF MINIMUM END BEARING, TYP. EACH END)  
L5 x 3 1/2 x 5/8" ANGLES, L.L.V., EACH 4" WALL WIDTH, 4-1" TO 6-8" OPENINGS (IF MINIMUM END BEARING, TYP. EACH END)  
W8X18 WITH 5/8" PLATE CONTINUOUS (EXTEND PLATE TO END OF EXPOSURE).  
7. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING ALL BRICK LINTEL ANGLES AND PLATES, SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A653.  
8. COORDINATE ALL ROOF AND FLOOR OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. FRAME OPENINGS WITH 1 1/2"x14" ANGLES TYPICAL. U.N.O. CONTRACTOR TO VERIFY UNIT SIZES, WEIGHTS, AND LOCATIONS BEFORE ERECTION. SEE DETAIL SD1 ON THE STRUCTURAL DETAIL SHEET.  
9. ALLOWANCE: FABRICATOR/ERECTOR SHALL ALLOW FOR 50% OF ADDITIONAL MISC. METAL FOR JOB SITE USE. IN PLACE, WHICH INCLUDES PLATES, ANGLES, ETC. TO COVER CORRECTIONS MADE ON THE SHOP DWGS. AND STEEL ADDED BY THE STRUCTURAL ENGINEER DURING FIELD OBSERVATIONS.

DIVISION 5 - METALS (CONT.)  
1. DESIGN FABRICATION AND ERECTION OF ALL COLD FORMED STEEL FRAMING MEMBERS SHALL CONFORM TO THE 'NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS' (AISI S100-12). ALL CFS MEMBERS AND ACCESSORIES SHALL BE FORMED FROM STEEL CONFORMING TO ASTM A103 WITH A MINIMUM YIELD STRENGTH AS FOLLOWS: 54 lbs (16 GA) AND HEAVIER MEMBERS Fy = 60 KSI (GRADE 570M) ; 43 lbs (18 GA) AND LIGHTER MEMBERS Fy = 33 KSI (GRADE ST38).  
2. ALL MEMBERS SHALL BE GALVANIZED WITH A COATING MEETING THE REQUIREMENTS OF ASTM A653. USE G90 OR EQUIVALENT FOR STUDS WITH A BRICK VENEER. G60 FOR ALL OTHER FRAMING MEMBERS AND ACCESSORIES.  
3. CFS LINTELS SHALL BE UNPINCHED.  
4. PROVIDE BRIDGING FOR STUDS AT A MAXIMUM SPACING NOT TO EXCEED 4'-0" AND PER MFR. REQUIREMENTS FOR JOISTS AND RAFTERS. ALL BRIDGING SHALL BE INSTALLED PRIOR TO THE ADDITION OF ANY LOADS. CONNECT BRIDGING TO EACH MEMBER BY WELDING, CLIP ANGLES OR OTHER APPROVED METHOD PER THE MANUFACTURER'S REQUIREMENTS.

Table with 2 columns: 'Construction Documents' and 'Revisions / Submissions'. Row 1: Construction Documents, 01/26/2022. Row 2: Revisions / Submissions, Date.

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434 East First Street Dayton, OH 45402 937.223.6500  
712 East Main Street Richmond, IN 47374 765.966.3546

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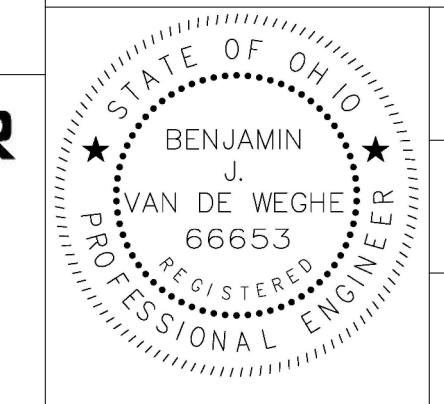
INTERIOR RENNOVATION PHASE 2

2655 OLSON DRIVE  
KETTERING, OH 45420

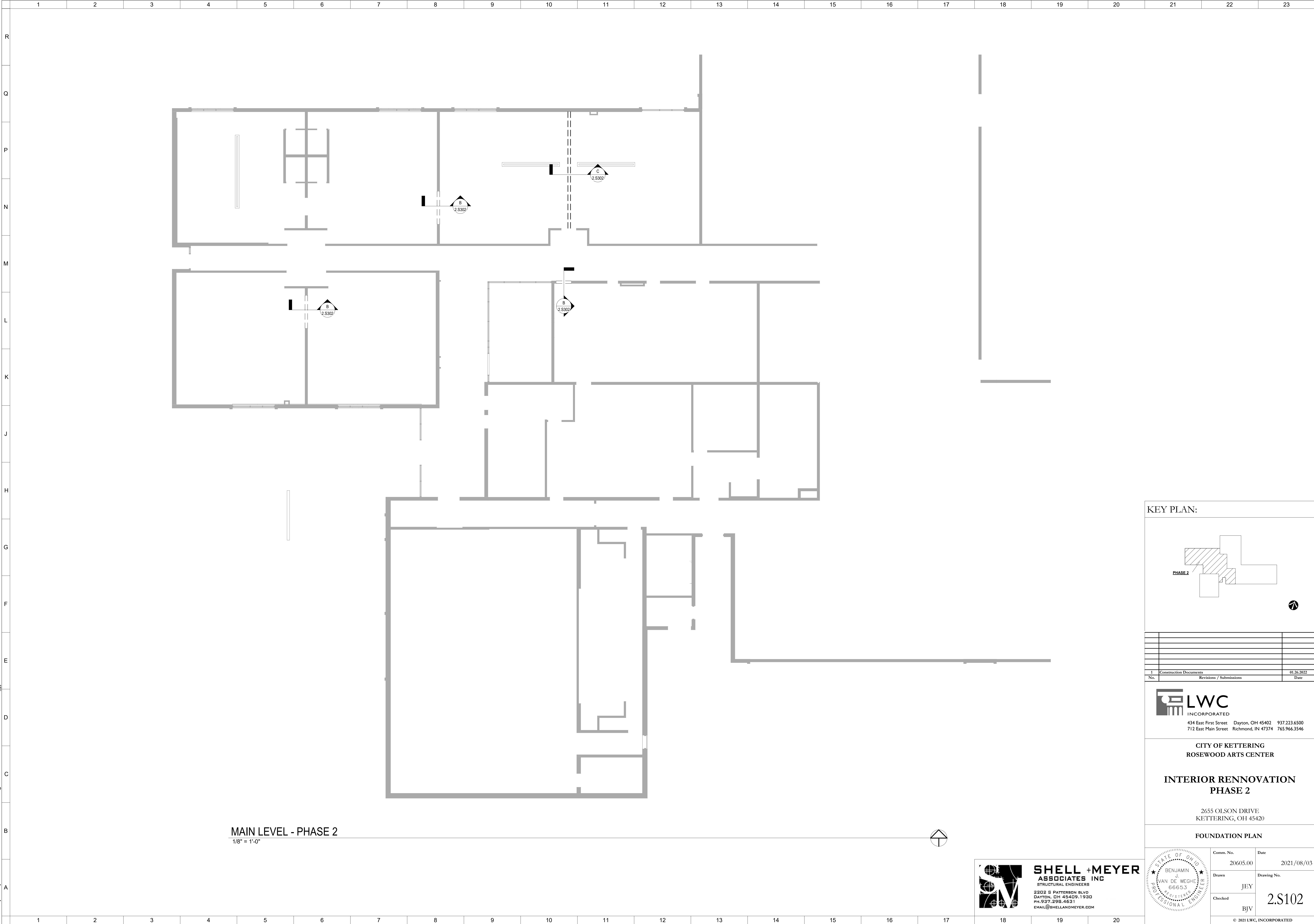
STRUCTURAL NOTES

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SHELL + MEYER ASSOCIATES INC  
STRUCTURAL ENGINEERS  
2202 S PATTERSON BLVD  
DAYTON, OH 45409-1930  
PH: 937.238.4621  
EMAIL: @SHELLANMEYER.COM



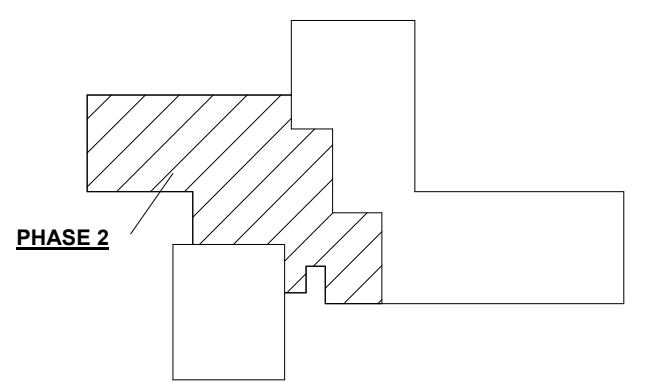
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MAIN LEVEL - PHASE 2

1/8" = 1'-0"

KEY PLAN:



No.	Revisions / Submissions	Date
1	Construction Documents	01.26.2022

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INCORPORATED  
434 East First Street Dayton, OH 45402 937.223.6500  
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INTERIOR RENNOVATION  
PHASE 2

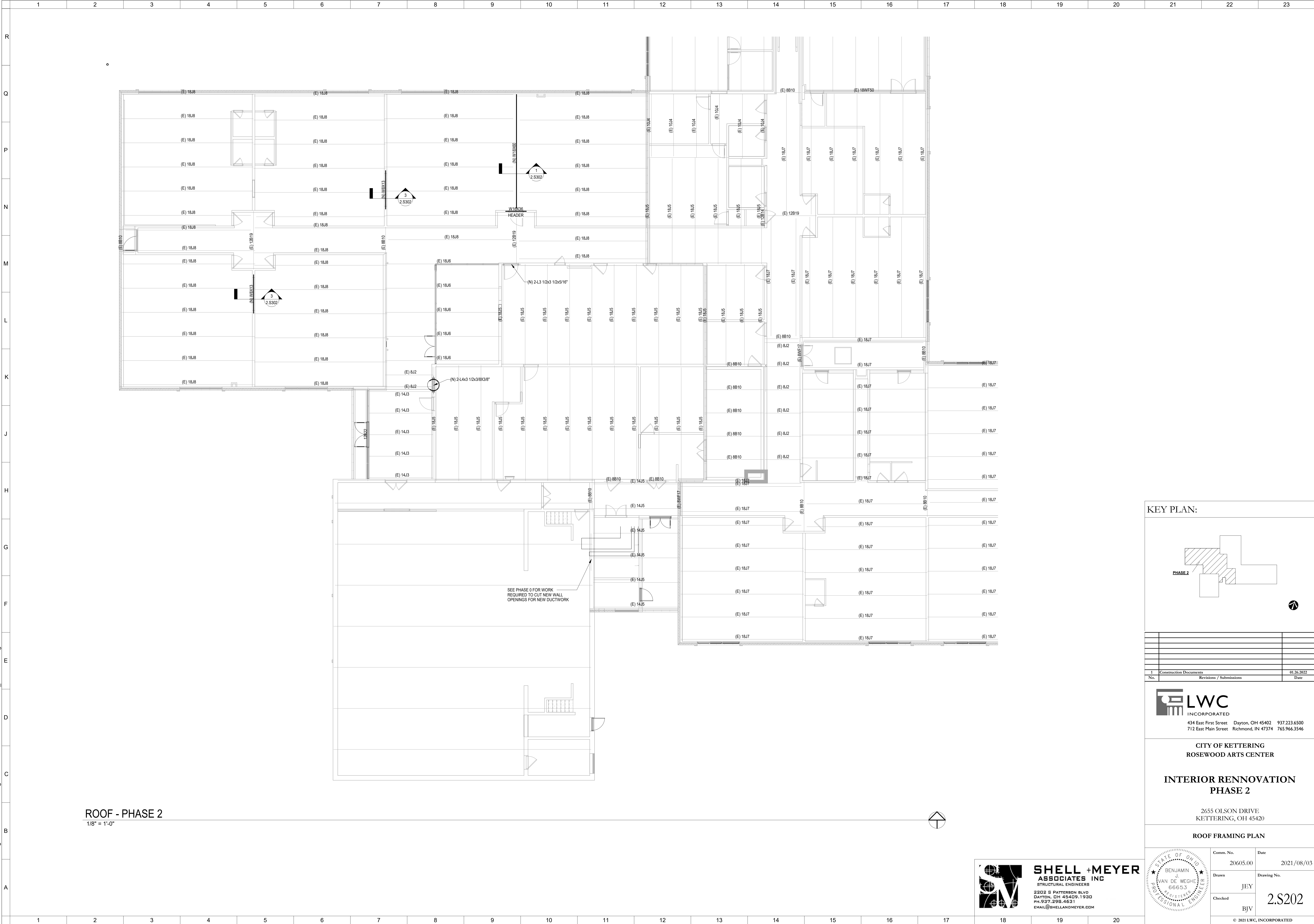
2655 OLSON DRIVE  
KETTERING, OH 45420

FOUNDATION PLAN

	Comm. No.	Date
	20605.00	2021/08/03
	Drawn	Drawing No.
JEY	2.S102	
Checked	BJV	

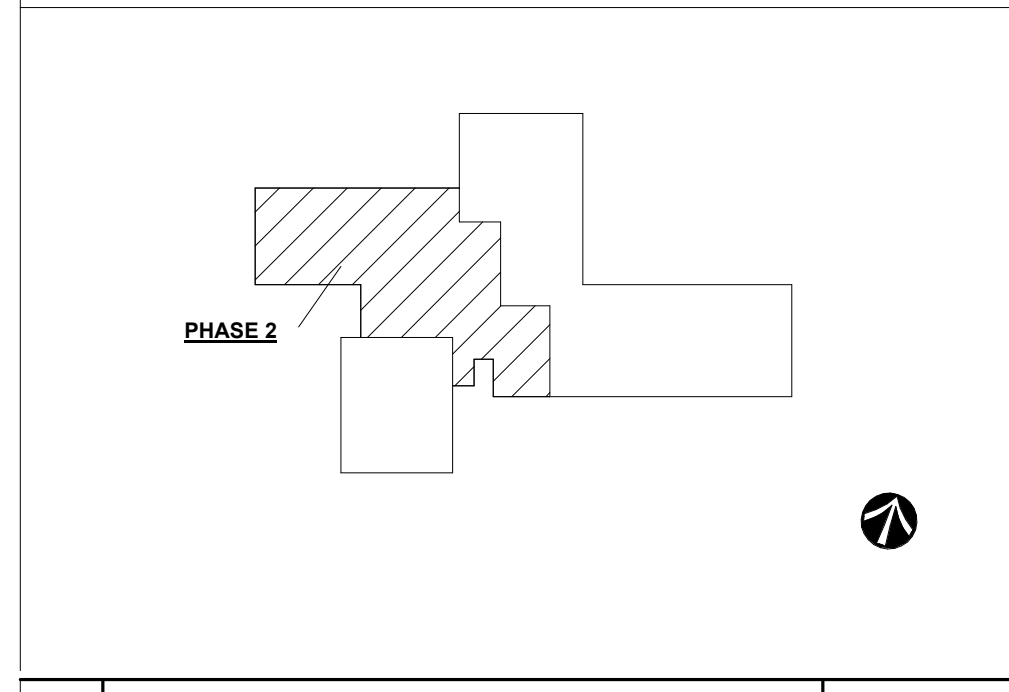
**SHELL + MEYER**  
ASSOCIATES INC  
STRUCTURAL ENGINEERS  
2202 S PATTERSON BLVD  
DAYTON, OH 45409.1930  
PH. 937.238.4631  
EMAIL@SHELLANDMEYER.COM





**ROOF - PHASE 2**  
1/8" = 1'-0"

**KEY PLAN:**



No.	Construction Documents	Revisions / Submissions	Date
			01.26.2022

**LWC**  
INCORPORATED  
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**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENNOVATION  
PHASE 2**

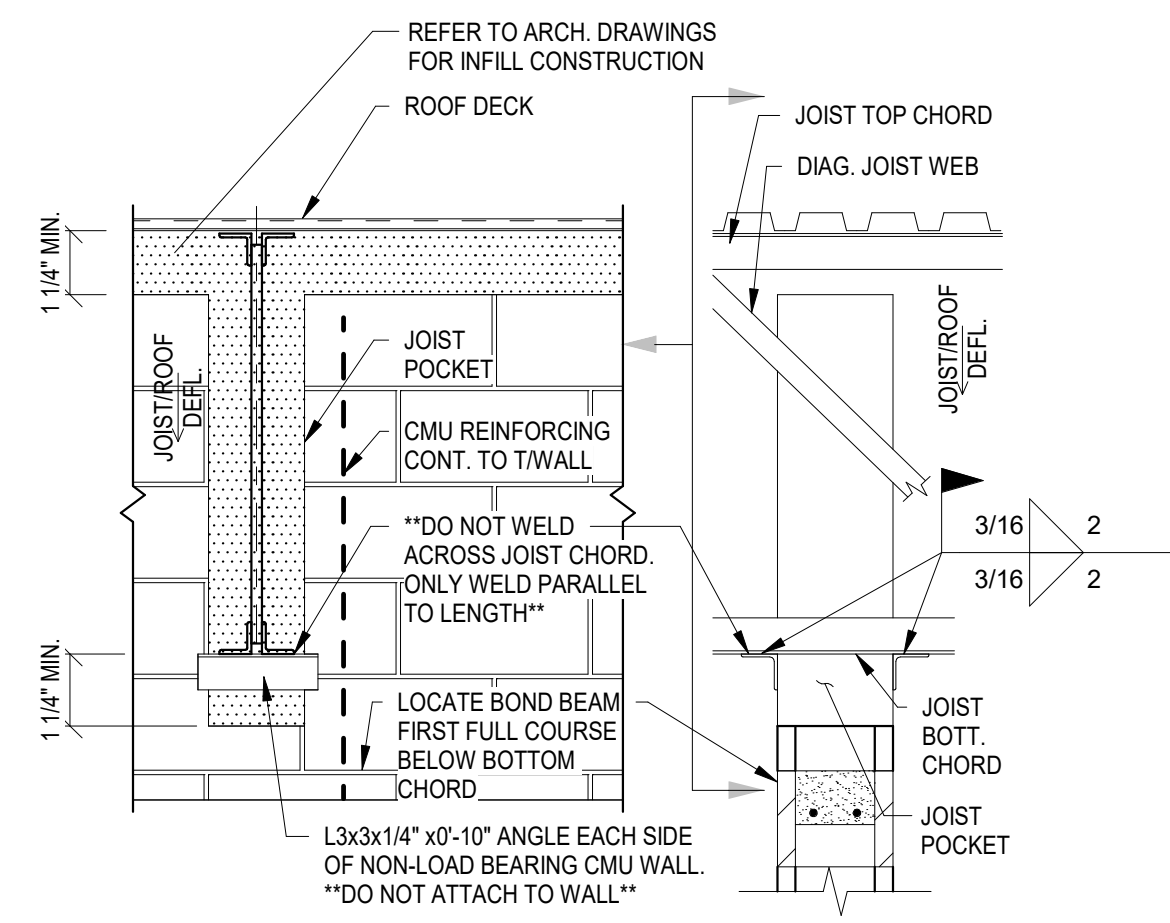
2655 OLSON DRIVE  
KETTERING, OH 45420

**ROOF FRAMING PLAN**

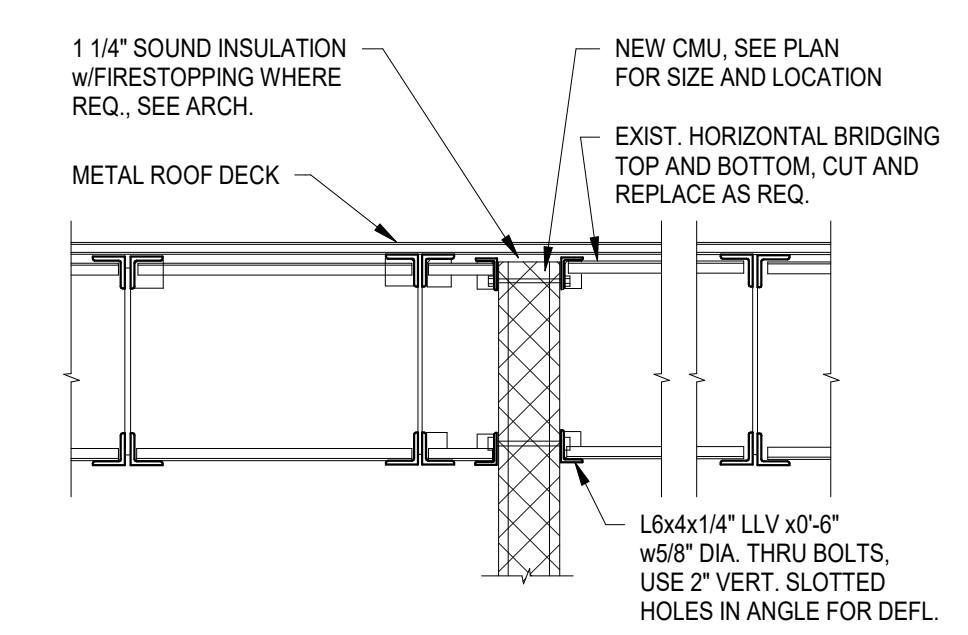
**SHELL + MEYER**  
ASSOCIATES INC  
STRUCTURAL ENGINEERS  
2202 S PATTERSON BLVD  
DAYTON, OH 45409.1930  
PH. 937.238.4631  
EMAIL@SHELLANDMEYER.COM

	Comm. No.	Date
	20605.00	2021/08/03
	Drawn	Drawing No.
Checked	JEY	2.S202
	BJV	

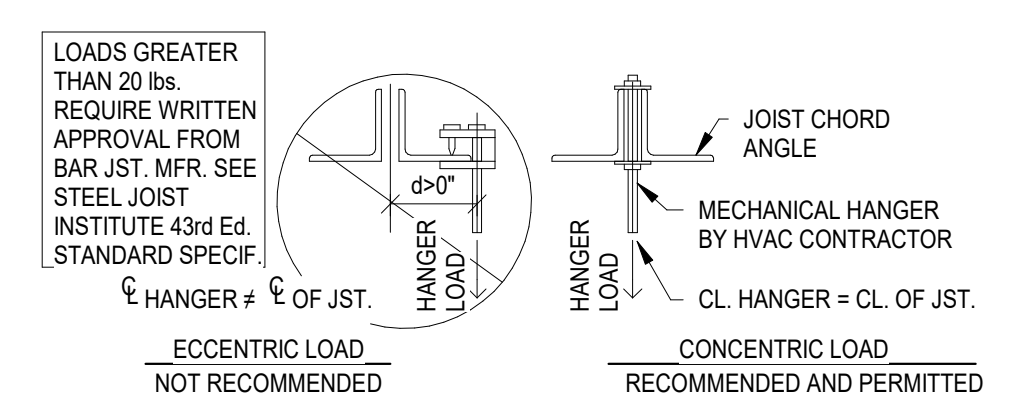




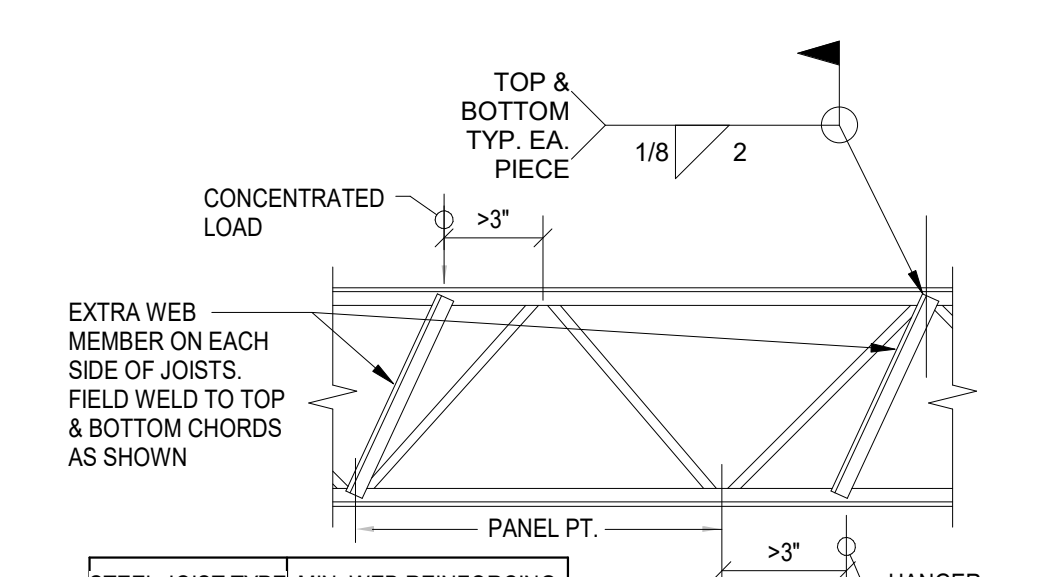
**M32 CMU PARTITION WALL BRACE**  
NON-LOAD BEARING WALL PERPENDICULAR TO JOISTS  
SCALE: NTS



**M30 CMU PARTITION WALL BRACE**  
WALL PARALLEL AND BETWEEN JOIST LOCATIONS  
SCALE: NTS



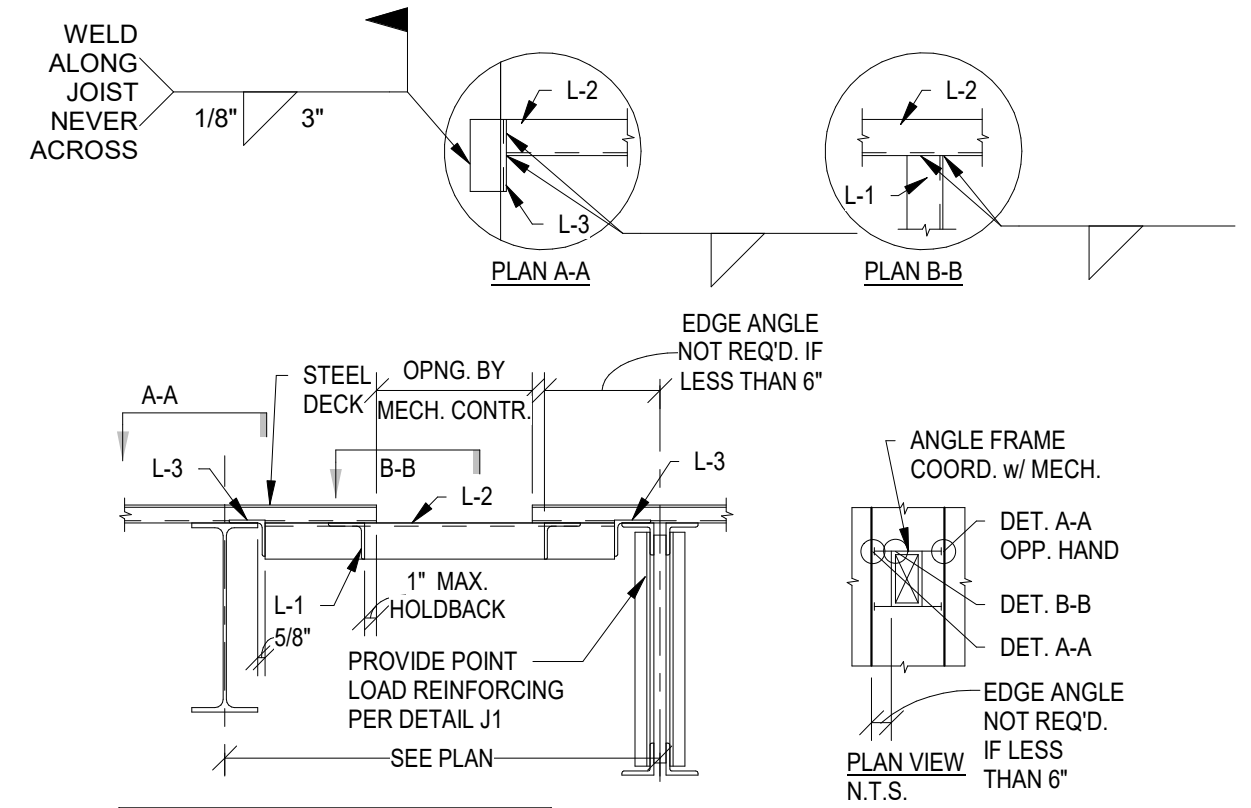
**J2 JOIST HANGERS**  
SCALE: NTS



**J1 JOIST REINFORCING DETAIL**  
FOR CONCENTRATED OR HANGER LOADS  
SCALE: NTS

STEEL JOIST TYPE MIN. WEB REINFORCING  
 J-Series D ≤ 30" (2) - L1 1/4"x1 1/4"x18"  
 LH-Series D ≤ 48" (2) - L1 1/2"x1 1/2"x316"

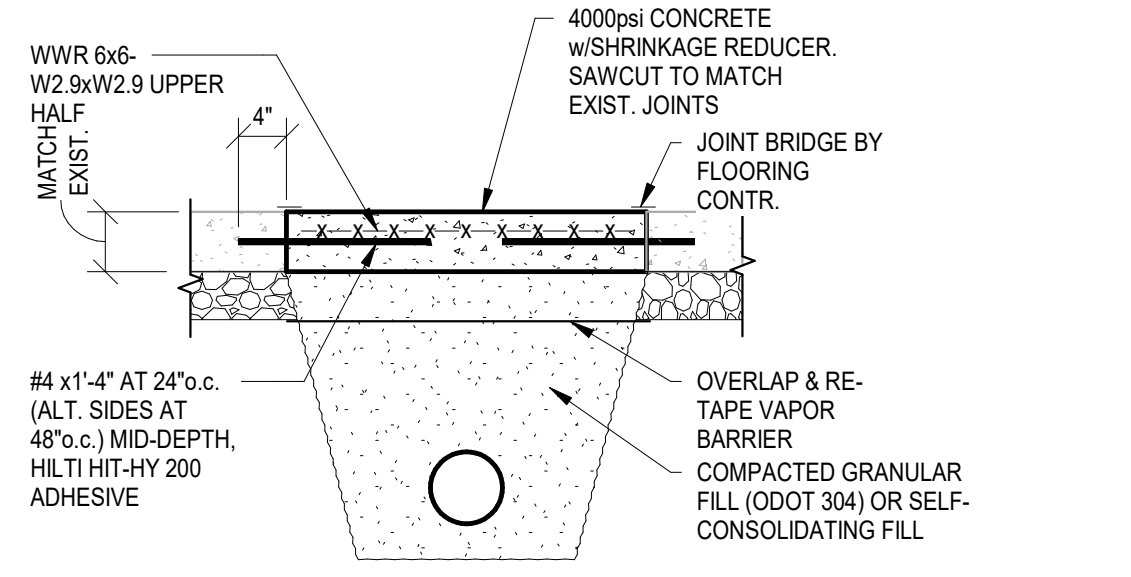
1. FOR ALL CONCENTRATED AND/OR HANGER LOADS GREATER THAN 50# AND LOCATED MORE THAN 3" FROM A PANEL POINT, STRUT ANGLES MUST BE INSTALLED TO DIRECT THE LOAD TO THE OPPOSITE PANEL POINT, AS SHOWN.  
 2. THIS DETAIL APPLIES TO ALL JOISTS WITH CONCENTRATED LOADS.  
 3. THE 50# "BEND CHECK" LIMIT IS THE SUM OF ALL CONCENTRATED LOADS BETWEEN ANY PAIR OF JOIST PANEL POINTS.  
 4. REINFORCING REQUIRED IN ADDITION TO ALL STANDARD S.J.I. SPECIFICATIONS.



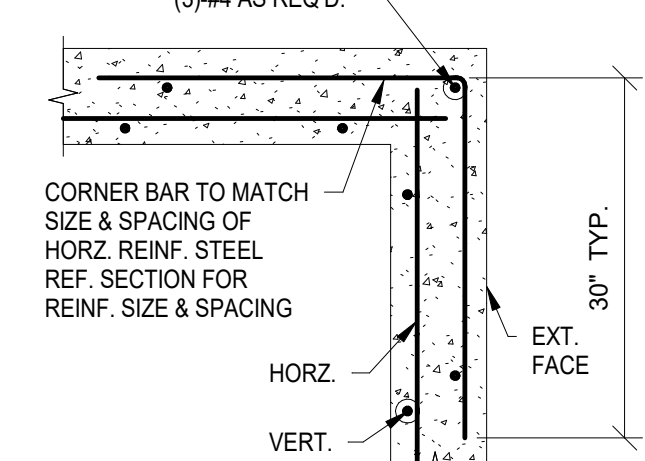
MEMBER	SIZE
L-1	L3x3x1/4"
L-2	L3x3x1/4"
L-3	L3x3x1/4" x 0'-6" LONG

NOTES:  
 1. ALL WELDS 1/4" FILLET, U.N.O.  
 2. DECK TO BE FASTENED TO ANGLE FRAME  
 3. INCREASE HOLDBACK DIM. IF FIREPROOFING IS REQ'D.

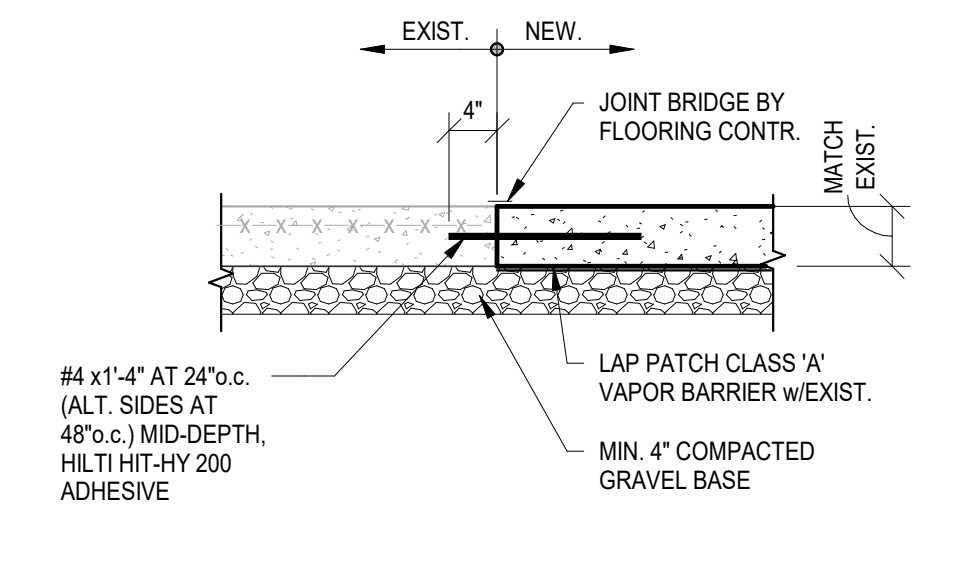
**SD1 STEEL DECK SUPPORT AT OPENINGS**  
ROOF DECK BETWEEN JOISTS OR BEAMS  
SCALE: NTS



**UT UTILITY TRENCH PATCH**  
SCALE: NTS



**F2 TYPICAL CORNER BAR DETAIL**  
CAST-IN-PLACE CONCRETE  
SCALE: NTS



**C8 TYPICAL REPLACEMENT SLAB**  
REPLACE w/NO LESS THAN 4" THICK SLAB  
SCALE: NTS

CASE	LOCATION	BAR SIZE	COVER (in.)
A	Concrete cast against and permanently exposed to earth <sup>1</sup>	ALL SIZES	3"
B	Concrete exposed to earth or weather	#5 & Smaller #6 thru #8	1 1/2" 2"
C	Concrete NOT exposed to weather or in contact with earth Walls, Slabs (0, 1, or 1.5 hr)	#11 & Smaller	3/4"

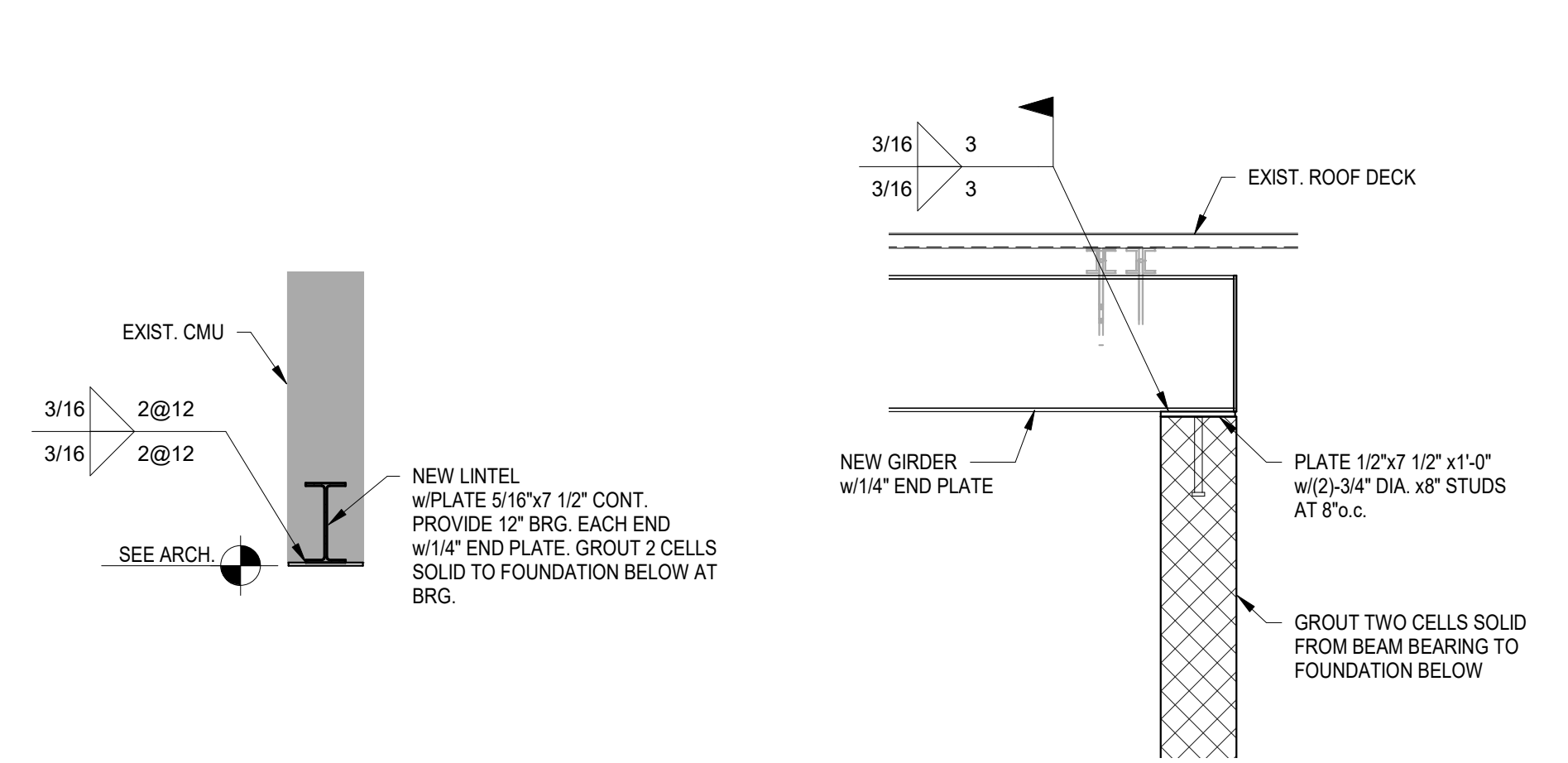
1 - All foundations cast against earth without using formwork shall use CASE 'A' for reinforcement clearances.

**C2 CONCRETE REINFORCING COVER**  
SCALE: NTS

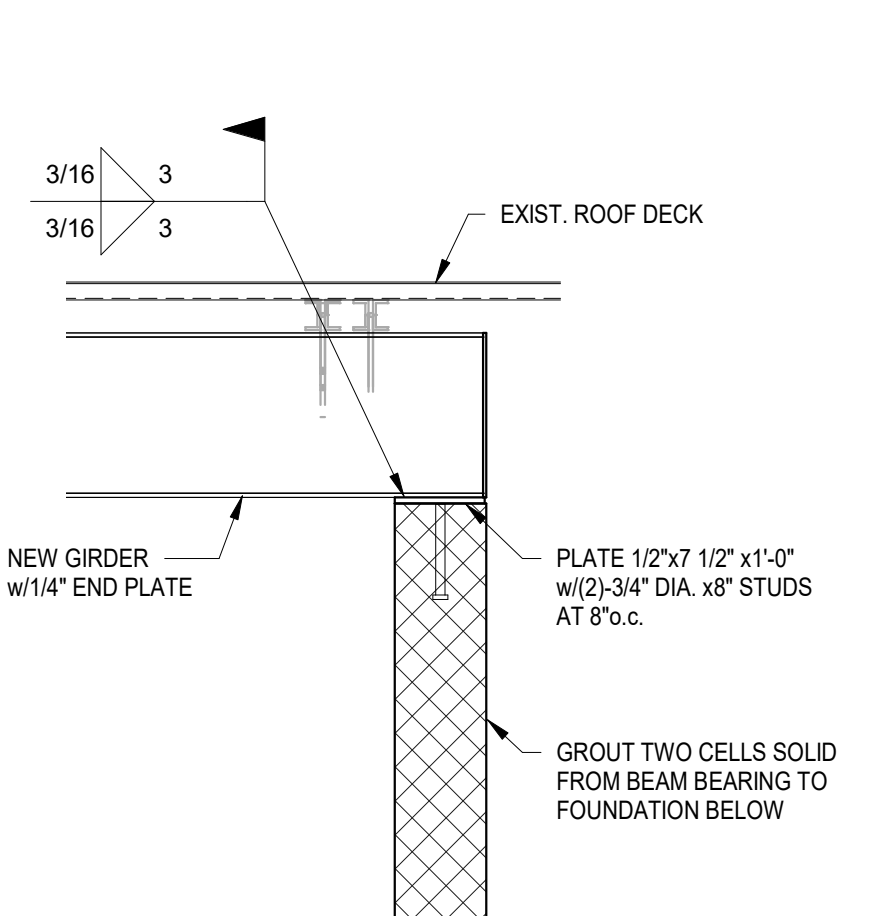
BAR SIZE	LAP LENGTH <sup>1,2</sup>
#3	32
#4	43"
#5	54"
#6	64"

1 - Increase Lap Length by 33% for Epoxy Coated Reinforcing or Lightweight Concrete  
 2 - Based on minimum f<sub>c</sub> = 3000 psi

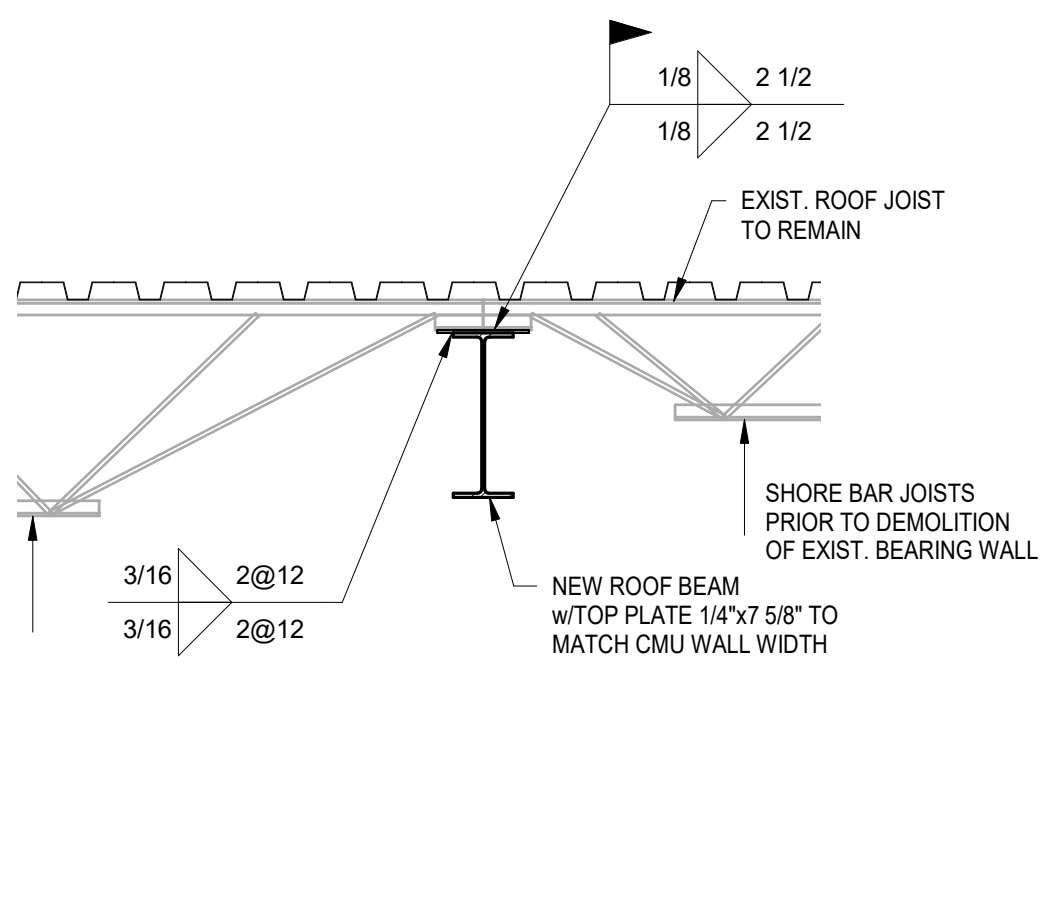
**C1 CONCRETE REINFORCEMENT SPLICES**  
SCALE: NTS



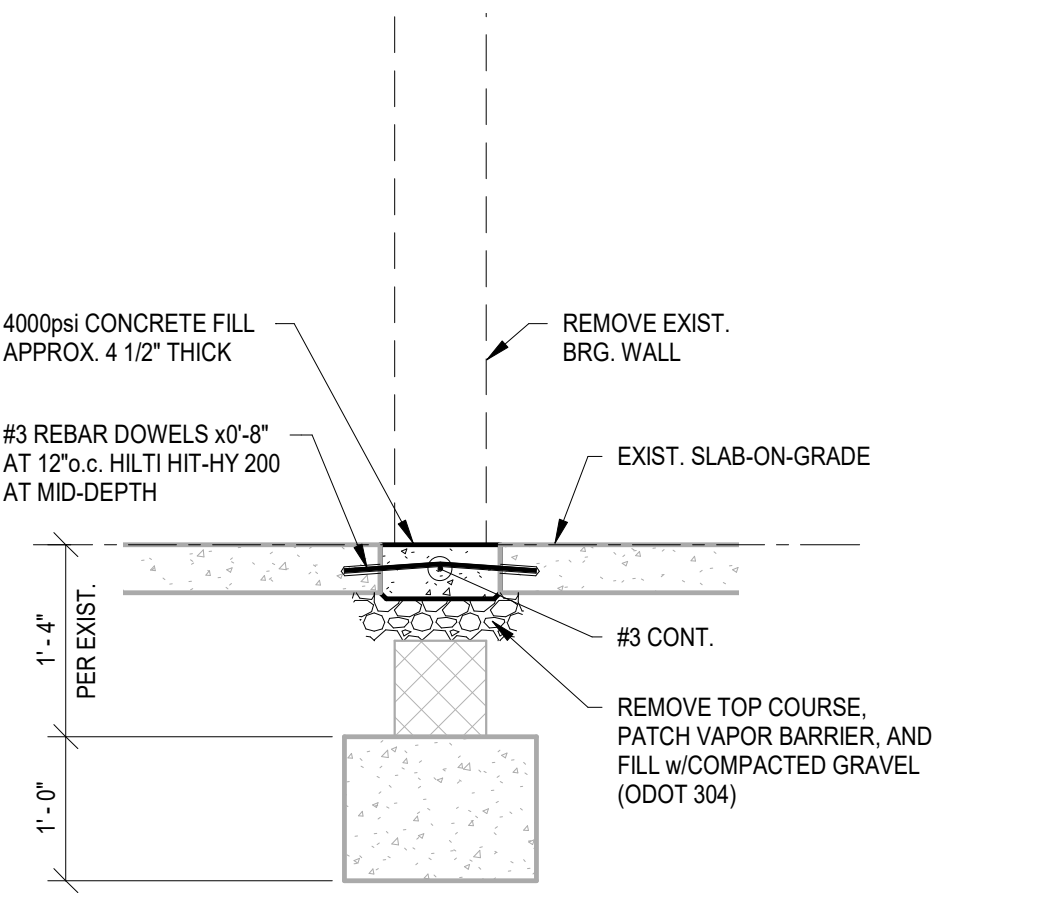
**3**  
2 S302  
3/4" = 1'-0"



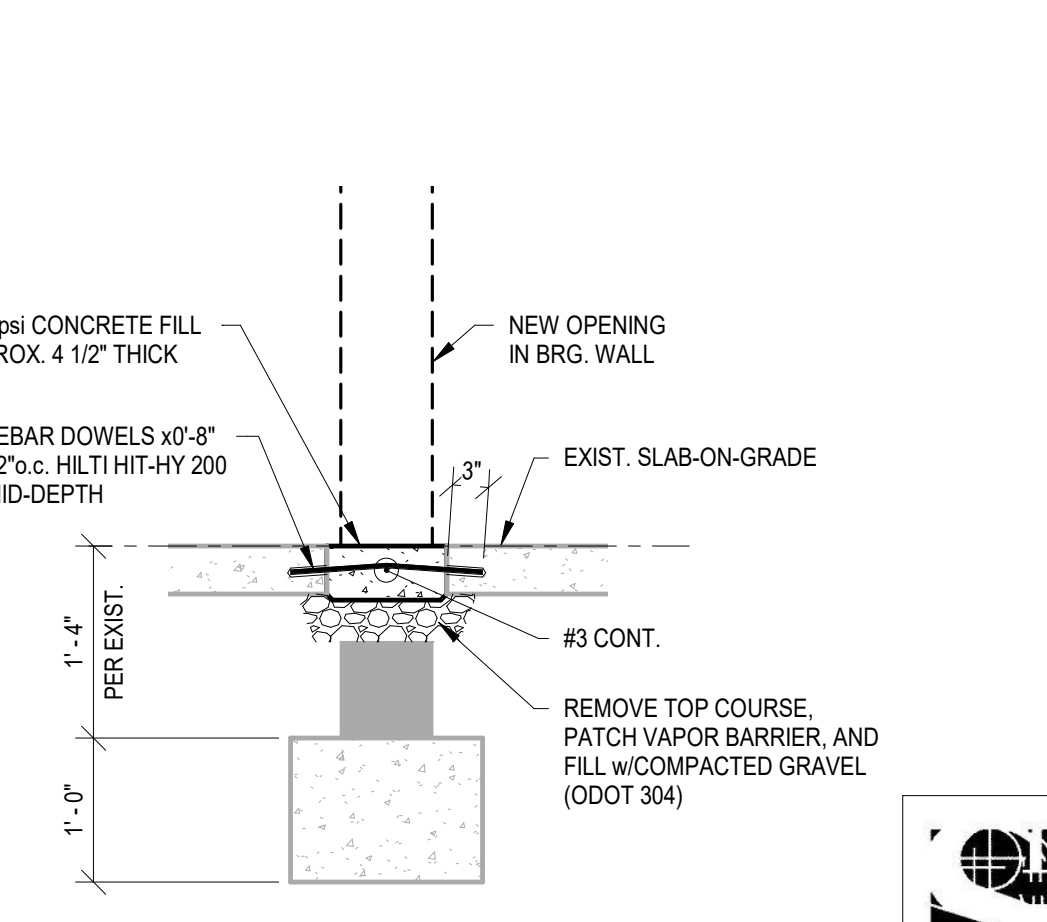
**2**  
2 S302  
3/4" = 1'-0"



**1**  
2 S302  
3/4" = 1'-0"



**C**  
2 S302  
3/4" = 1'-0"



**B**  
2 S302  
3/4" = 1'-0"

**SHELL + MEYER ASSOCIATES INC.**  
 STRUCTURAL ENGINEERS  
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 DAYTON, OH 45409-1930  
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**LWC INCORPORATED**  
 434 East First Street Dayton, OH 45402 937.223.6500  
 712 East Main Street Richmond, IN 47374 765.966.3546

**CITY OF KETTERING ROSEWOOD ARTS CENTER**

**INTERIOR RENNOVATION PHASE 2**

2655 OLSON DRIVE  
 KETTERING, OH 45420

**STRUCTURAL DETAILS**

Comm. No.	Date
20605.00	2021/08/03
Drawn	Drawing No.
JEY	2.S302
Checked	
BJV	

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

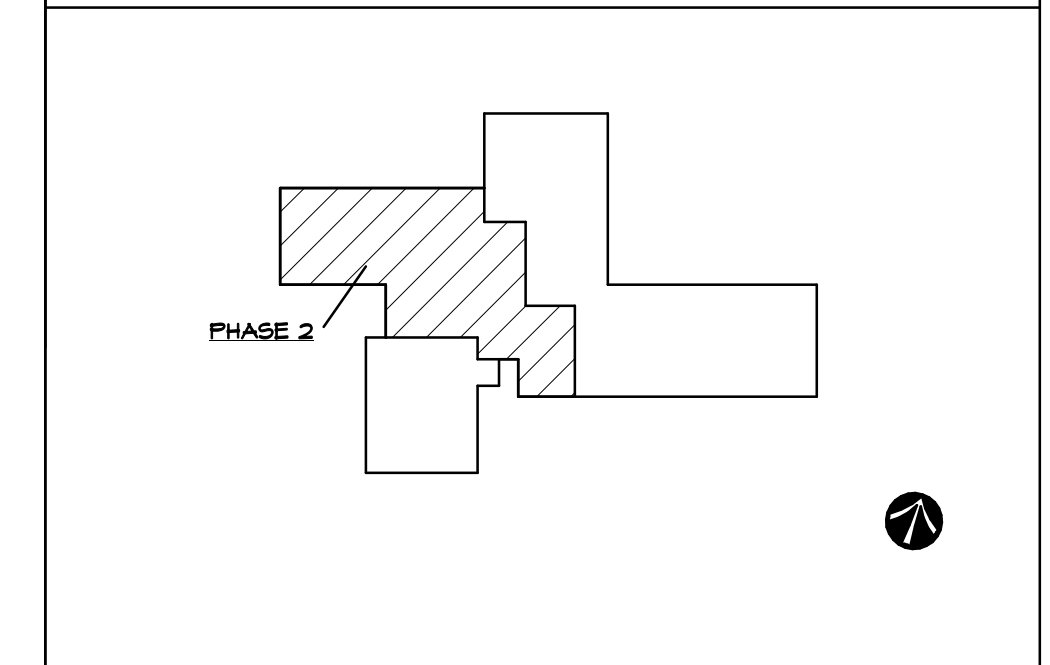
**SHEET NOTES:**

1. REMOVE EXISTING WALL IN ITS ENTIRETY, INCLUDING ANY CONDUIT, PIPING, WALL DEVICES, ETC. PATCH FLOOR AS REQUIRED FOR NEW EXPOSED FINISH.
2. ABATE AND REMOVE EXISTING FLOORING AND MASTIC. REMOVE MASTIC COMPLETELY AND PREPARE FLOOR FOR EXPOSED SEALED CONCRETE FINISH.
3. REMOVE EXISTING BASE CABINETS & COUNTERTOP, INCLUDING SINK AND OTHER ASSOCIATED HARDWARE.
4. REMOVE EXISTING DOOR & FRAME.
5. REMOVE EXISTING PLUMBING FIXTURE.
6. REMOVE EXISTING MECHANICAL UNIT @ WINDOW. REFER TO RELATED DRAWINGS.
7. REMOVE EXISTING ROOF DRAIN LEADER. PROVIDE TEMPORARY PIPING AS REQUIRED UNTIL NEW DRAIN IS IN PLACE. SAWCUT SLAB AS REQUIRED TO MAKE NEW DRAINAGE CONNECTION TO SUBSURFACE PIPING. REFER TO RELATED DRAWINGS. COORDINATE WITH NEW WORK PLANS.
8. SAWCUT EXISTING SLAB AND EXCAVATE AS REQUIRED. COORDINATE WITH NEW WORK PLANS.
9. REMOVE EXISTING STORAGE UNIT.
10. REMOVE EXISTING BENCH & WALL SHELVING.
11. REMOVE PORTION OF EXISTING WALL FOR NEW OPENING.
12. REMOVE PORTION OF EXISTING GALLERY WALL. PATCH WALL AND PREP FOR PAINT.
13. REMOVE EXISTING DANCE FLOOR AND SUBFLOORING SYSTEM.
14. REMOVE RAILING SYSTEM.
15. REMOVE WALL-HUNG MIRRORS.
16. REMOVE STORAGE UNIT.
17. EXISTING KILL TO REMAIN. REFER TO DRAWINGS FOR WORK ASSOCIATED WITH THIS UNIT.
18. REMOVE LOCKERS. TURN OVER TO OWNER.
19. EXISTING PHOTO WORKSTATION CASEWORK TO BE RELOCATED.
20. REMOVE EXISTING PINO WALL AND SHELVING.
21. REMOVE EXISTING COAT RACK UNIT.
22. REMOVE RESTROOM FIXTURES. REFER TO NEW WORK PLANS FOR ALTERNATE ASSOCIATED WITH WASHER/DRYER HOOD/UP.
23. RETAIN EXISTING CASEWORK IN ITS EXISTING LOCATION. PROTECT DURING CONSTRUCTION.
24. EXISTING FLOORING TO REMAIN. PROTECT DURING CONSTRUCTION.
25. CREATE NEW OPENING IN WALL FOR DOOR AS SPECIFIED. REFER TO NEW WORK PLANS. PROVIDE TEMPORARY SHORING AS REQUIRED.
26. SALVAGE AED UNIT/CASEWORK/SIGNAGE AND TURN OVER TO OWNER FOR FUTURE USE.
27. REMOVE EXISTING MONITOR AND MOUNT. TURN OVER TO OWNER.
28. SALVAGE WALL MOUNTED SIGNAGE AND TURN OVER TO OWNER FOR FUTURE USE.
29. REMOVE EXISTING TACKBOARD OR MARKERBOARD. ABATE AND REMOVE MASTIC ENTIRELY AND PREP WALL FOR PAINTING.

**GENERAL NOTES:**

- A. CONTRACTOR TO IDENTIFY, REPAIR, PATCH, AND PREP EXISTING WALLS WHERE IMPERFECTIONS OCCUR, INCLUDING BUT NOT LIMITED TO REMOVAL OF MOUNTING HARDWARE AND ASSOCIATED PENETRATIONS, MISC. GLUE AND/OR APPLIED ATTACHMENT MATERIALS.
- B. EXISTING ELECTRICAL / CONDUIT BOXES TO BE COVERED WITH PAINT GRADE COVERPLATE. SEE MEP PLANS AND SPECIFICATIONS FOR SCOPE OF ADDITIONAL REQUIRED WORK.
- C. EXISTING WOOD DOORS/TRANSOMS TO REMAIN UNLESS NOTED OTHERWISE. PREP FOR REFINISHING AS PART OF NEW WORK.
- D. EXISTING GLAZED GWS TO REMAIN AS FINAL FINISH WHERE EXPOSED, UNLESS NOTED OTHERWISE. PROTECT DURING CONSTRUCTION.

**KEY PLAN:**



No.	Revisions / Submissions	Date

**LWC**  
INCORPORATED  
434 East First Street Dayton, OH 45402 937.223.6500  
712 East Main Street Richmond, IN 47374 765.966.3546

**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
PHASE 2**

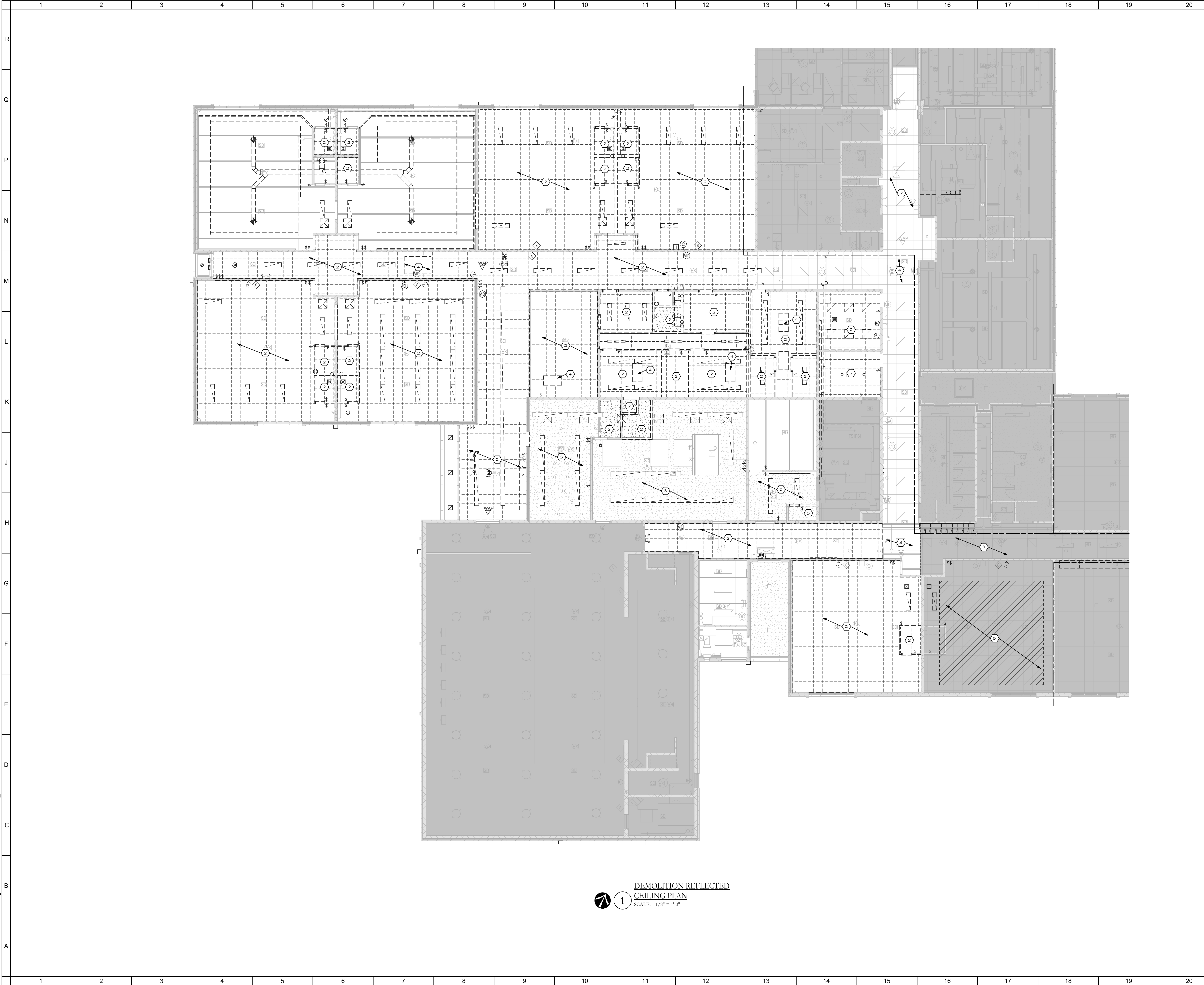
2655 OLSON DRIVE  
KETTERING, OH 45420

DEMOLITION FLOOR PLAN	
Comm. No.	Date
20605.00	2022/01/26
Drawn	Drawing No.
DJB	2.AD101
Checked	EGS
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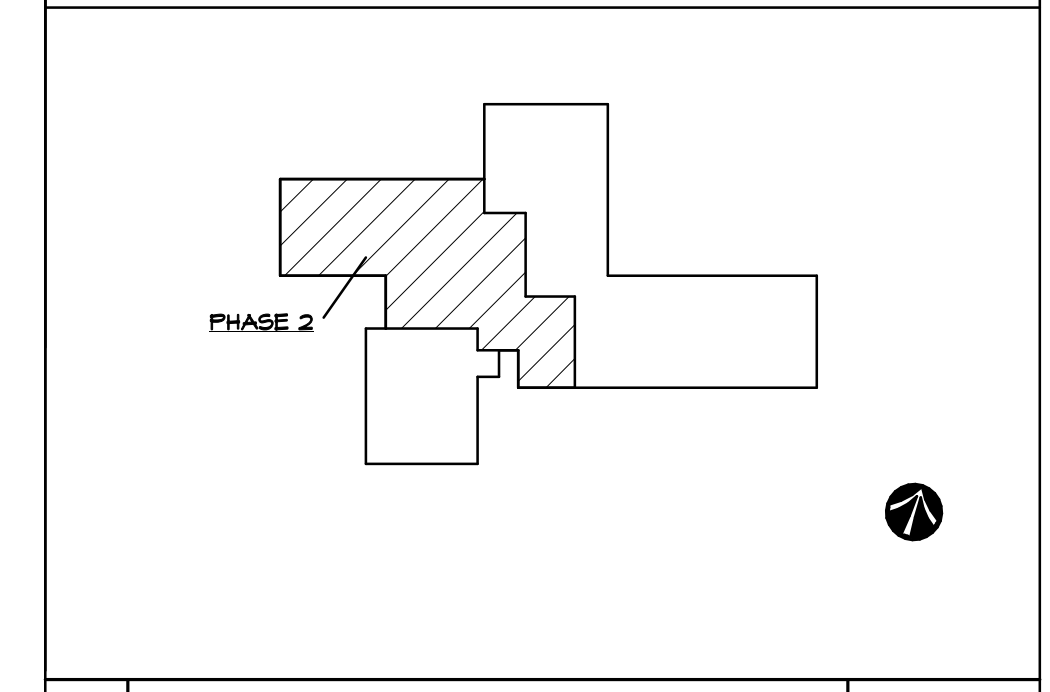
DEMOLITION REFLECTED  
 1 CEILING PLAN  
 SCALE: 1/8" = 1'-0"

○ SHEET NOTES:

1. REMOVE EXISTING CEILING SYSTEM.
2. REMOVE PORTION OF EXISTING CEILING.
3. CEILING TO REMAIN.
4. REMOVE GRID SKYLIGHT SURROUND.
5. TEMPORARILY REMOVE CEILING TO EXTENT NECESSARY FOR NEW WORK SHOWN ON MECHANICAL SHEETS. REINSTALL CEILING AT COMPLETION. MAINTAIN LIGHTING.

GENERAL NOTES:

KEY PLAN:



No.	Revisions / Submissions	Date

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 INCORPORATED  
 434 East First Street Dayton, OH 45402 937.223.6500  
 712 East Main Street Richmond, IN 47374 765.966.3546

**CITY OF KETTERING  
 ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
 PHASE 2**

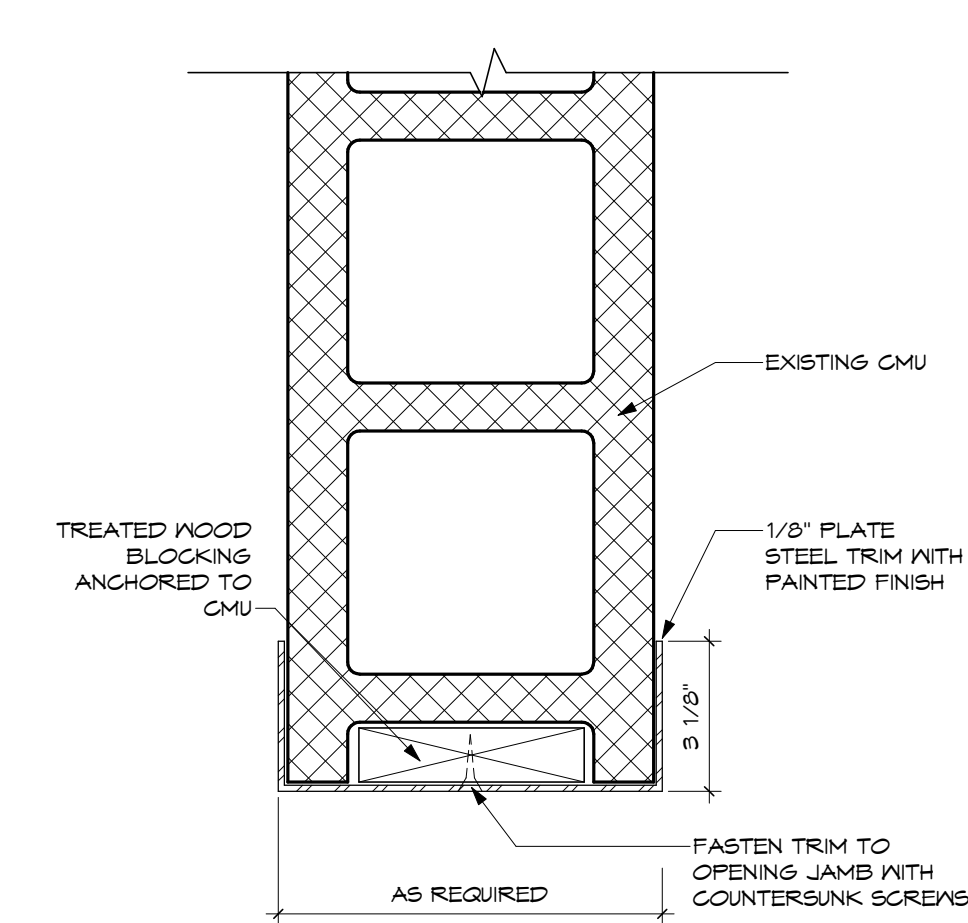
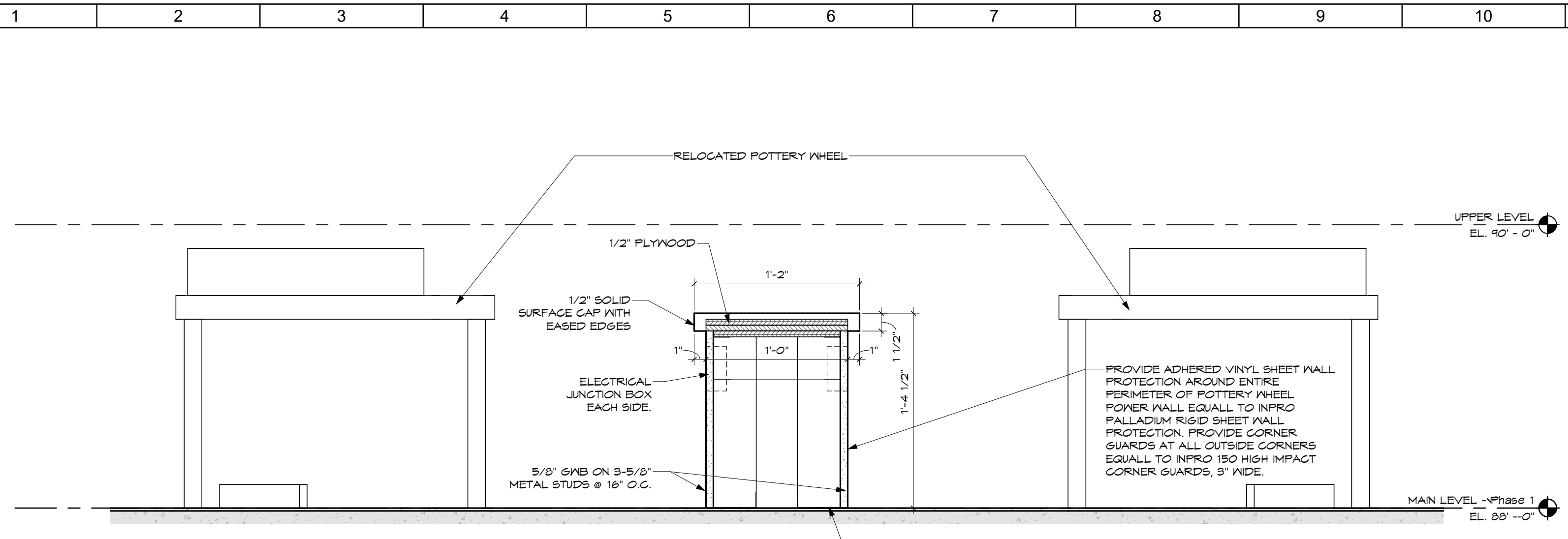
2655 OLSON DRIVE  
 KETTERING, OH 45420

DEMOLITION CEILING PLANS

	Comm. No.	Date
	20605.00	2022/01/26
	Drawn	Drawing No.
	DJB	2.AD201
Checked	EGS	



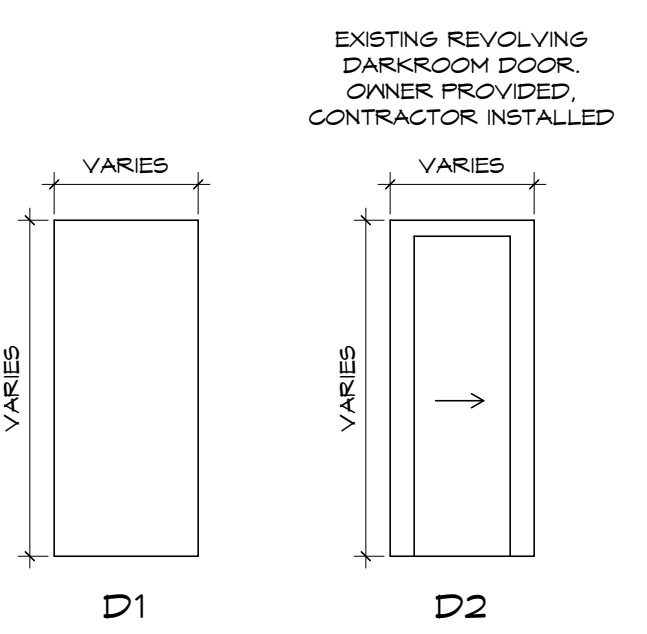
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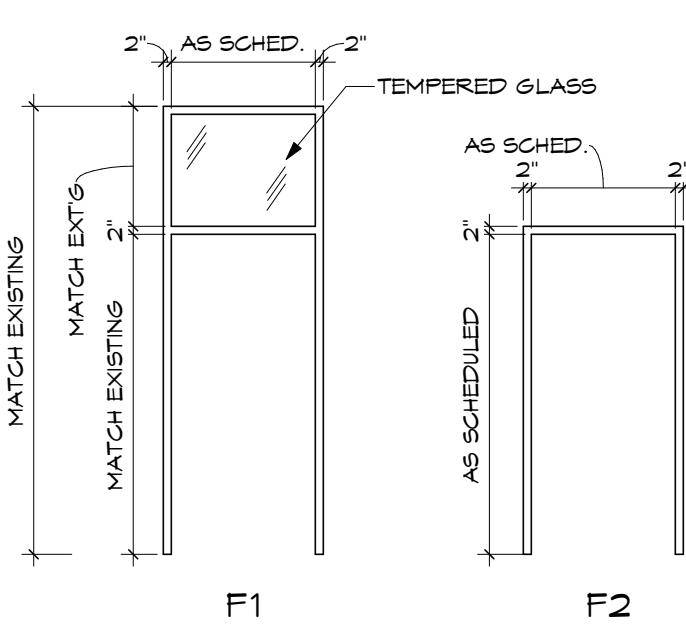
CODE	MATERIAL	MANUFACTURER	DESCRIPTION / PATTERN	COLOR / MATERIAL	REMARKS
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	2X2 TESSULAR	WHITE	AS SPECIFIED
B-1	BASE	OWNER PROVIDED	RUBBER	DARK GREY	
GL-1	CEMENTITIOUS LEVELER	SCHONOX	EXPOSED CEMENTITIOUS	TINT TO MATCH SPS235 SAMOVAR SILVER, WITH APPLIED SEALER	APPLIED OVER SLAB OR EXISTING VAT TILE
CPT-1	CARPET	INTERFACE	CARPET TILE	105942 TURTLE BAY	SECOND STORY COLLECTION
CPT-2	CARPET	INTERFACE	CARPET TILE	105881 SOHO	SECOND STORY COLLECTION
HR-1	HAND RAIL		PAINTED STEEL	SWR143 CADET	FS PAINT
P-1	PAINT	SHERWIN WILLIAMS	EXPOSED STRUCTURE/CEILING/BULKHEADS	SN6252 HEBTY	BATH SHEEN
P-2	PAINT	SHERWIN WILLIAMS	CEILING/BULKHEADS	SN6185 MODERNE WHITE	EGGSHELL
P-3	PAINT	SHERWIN WILLIAMS	HM DOOR FRAMES/TRANSOM FINLS	SN6233 SAMOVAR SILVER	SEMI-GLOSS
P-4	PAINT	SHERWIN WILLIAMS	MALL	SN6185 MODERNE WHITE	EGGSHELL
P-5	PAINT	SHERWIN WILLIAMS	MALL ACCENT	SN6207 FINE PINE	EGGSHELL
P-6	PAINT	SHERWIN WILLIAMS	NEUTRAL BACKGROUND	TBD	EGGSHELL
P-7	PAINT	SHERWIN WILLIAMS	GALLERY WHITE	MATCH OWNER'S SAMPLE	FLAT SHEEN, APPLIED TO FS TYPE MALL
P-8	PAINT	SHERWIN WILLIAMS	DARK GREY	SN6233 SAMOVAR SILVER	NEP HANDRAILS AT RAMP, SEMI-GLOSS
P-9	PAINT	SHERWIN WILLIAMS	DOORS	SN6185 MODERNE WHITE	SATIN SHEEN
PL-1	PLASTIC LAMINATE	FORMICA	CASEWORK BASE CABINETS	7223C-50 NEP WHITE	MELAMINE INTERIOR SURFACES
PL-2	PLASTIC LAMINATE	FORMICA	CASEWORK UPPER CABINETS	7223C-50 NEP WHITE	MELAMINE INTERIOR SURFACES
SC-1	SEALED CONCRETE				GRIND CONCRETE TO REMOVE RESIDUE SEAL
SS-1	SOLID SURFACE	MILSONART	COUNTERTOPS	8078T MILK GLASS SPECTRA	SERVICE DESK IN MAIN ENTRANCE LOBBY
SS-2	SOLID SURFACE	FORMICA EVERGRN	COUNTERTOPS	TB LUNA STORM	PUBLIC RESTROOMS, STAFF COUNTERS
ST-1	STAIN			TBD	DARK TONE FOR RECEPTION DESK WOOD TRIM
T-1	MALL/FLOOR TILE	DAL-TILE	12 X 24 9/16	DARK	OWNER PROVIDED. SEE DRAWINGS FOR PATTERN
T-2	MALL TILE	DAL-TILE	12 X 24 9/16	LIGHT	OWNER PROVIDED. SEE DRAWINGS FOR PATTERN
TER-1	EXISTING TERRAZZO	N/A	REFINISH		GRIND/POUSH
TB-1	TRANSITION	TARKETT	RESILIENT @ CARPET	BLACK	PROVIDE AS REQUIRED
MM-1	WALK OFF MATERIAL	MATS INC.	SUPER HDP TILE	GRUBS/CHARCOAL	

ROOM NO.	ROOM NAME	NORTH	EAST	SOUTH	WEST	FLOORING	BASE	CEILING	REMARKS
MAIN LEVEL									
129	CERAMICS WHEEL ROOM 1	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	SC-1	B-1/EXIST GLAZED CMU	P-1	
130	STORAGE	P-4	P-4	P-4	P-4	SC-1	EXIST'S GLAZED CMU	P-1	
131	STORAGE	P-4	P-4	P-4	P-4	SC-1	EXIST'S GLAZED CMU	P-1	
132	STORAGE	P-4	P-4	P-4	P-4	SC-1	EXIST'S GLAZED CMU	P-1	
133	STORAGE	P-4	P-4	P-4	P-4	SC-1	EXIST'S GLAZED CMU	P-1	
134	CERAMICS HANDBUILDING ROOM	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	SC-1	EXIST'S GLAZED CMU	P-1	
135	CERAMICS WHEEL ROOM 2	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	SC-1	EXIST'S GLAZED CMU	P-1	
136	NEST WING CORRIDOR	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	SC-1	EXIST'S GLAZED CMU	ACT-1	
137	METAL STUDIO	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	SC-1	EXIST'S GLAZED CMU	P-1	GRIND/SEAL FLOOR
138	GLASS STUDIO	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	SC-1	EXIST'S GLAZED CMU	P-1	GRIND/SEAL FLOOR
139	CORRIDOR	P-4/GLAZED CMU	EXISTING	EXISTING	EXISTING	TER-1	EXISTING	ACT-1	
140	MEETING ROOM	EXISTING	P-4/GLAZED CMU	P-4/GLAZED CMU	EXISTING	CPT-2	EXIST'S GLAZED CMU	ACT-1	
141	CERAMICS WORKROOM	P-4	P-4	P-4	P-4	TER-1	EXISTING	P-1	
142	MECHANICAL JAM								
143	GLAZE MIXING	P-4	P-4	P-4	P-4	SC-1	EXISTING	P-1	
144	UTILITY	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	TER-1	EXISTING	EXIST'S P-2	
145	KILN ROOM	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	TER-1	EXISTING	EXIST'S P-2	
146	DARK ROOM	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	TER-1	EXISTING	EXIST'S P-2	
147	CORRIDOR	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	P-4/GLAZED CMU	SC-1	EXISTING	ACT-1	
148	EXTERIOR BREEDWAY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXIST'S P-2	
UPPER LEVEL									
124	CHILDRENS ART	P-4	P-4	P-4	P-4	EXISTING	EXISTING	P-1	
142	STORAGE	P-4	P-4	P-4	P-4	EXISTING	EXISTING	P-1	
143	STORAGE	P-4	P-4	P-4	P-4	ALTERNATE	EXISTING	P-1	SEE ALTERNATES
152	DANCE	P-4	P-4	P-4	P-4				

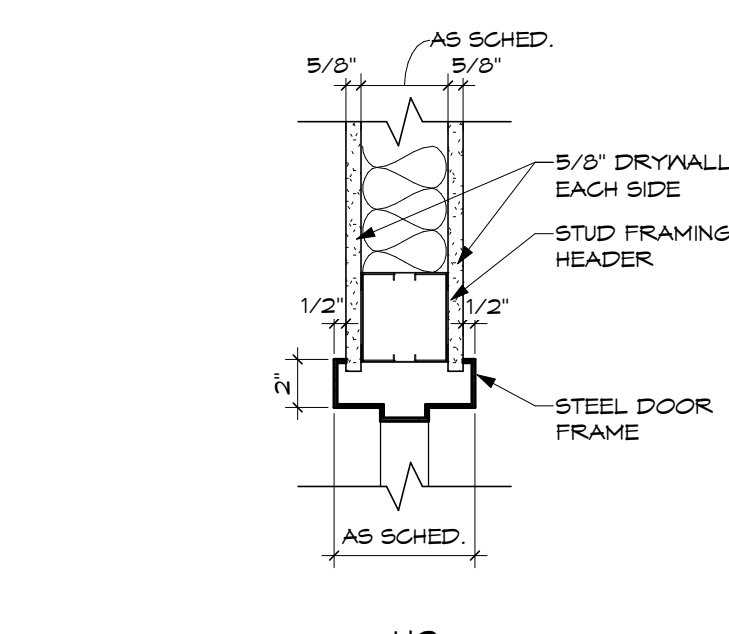
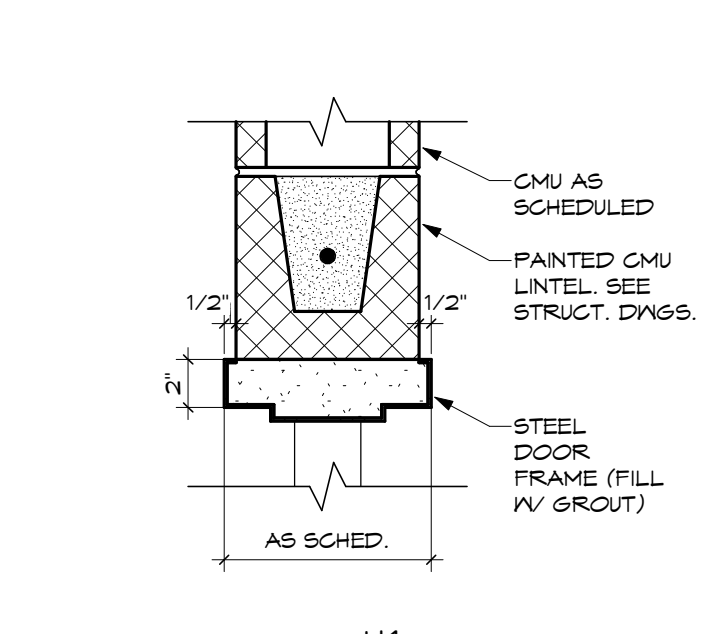
DOOR NO.	EXISTING / NDA	INTERIOR / EXTERIOR	SINGLE / PAIR	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	GLAZING	TYPE	FRAME	DETAILS	HARDWARE	FIRE RATING	REMARKS
129	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	JAMB HEAD	SET #		NOTE #1
130	EXIST	INT	SINGLE	2'-0"	6'-9"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST			NOTE #1
131	EXIST	INT	SINGLE	2'-0"	6'-9"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST			NOTE #1
132	EXIST	INT	SINGLE	2'-0"	6'-9"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST			NOTE #1
133	EXIST	INT	SINGLE	2'-0"	6'-9"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST			NOTE #1
134	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST			NOTE #1
139	NDA	INT	SINGLE	3'-4"	7'-0"	1 3/4"	D1	HM	N/A	F1	HM	J1	HM		NOTE #1
131	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST			NOTE #1
139	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST			NOTE #1
140	EXIST	INT	PAIR	2'-11"	6'-9"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
140	NDA	INT	SINGLE	3'-4"	7'-0"	1 3/4"	D1	HM	N/A	F1	HM	J1	HM		NOTE #1
1418	NDA	INT	SINGLE	3'-4"	7'-0"	1 3/4"	D1	HM	N/A	F2	HM	J1	HM		NOTE #1
142	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
143	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
1448	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
1449	EXIST	INT	PAIR	2'-6"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
145	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
146	EXIST	INT	PAIR	2'-2"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
1468	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
1469	NDA	INT	SINGLE	3'-0"	7'-0"	1 3/4"	D2	HM	N/A	F1	HM	J1	HM		DARK ROOM ENTRY
1478	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
1479	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
145	EXIST	INT	PAIR	2'-6"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1
152	EXIST	INT	SINGLE	3'-0"	7'-0"	1 3/4"	EXIST	EXIST	N/A	EXIST	EXIST	EXIST	EXIST		NOTE #1



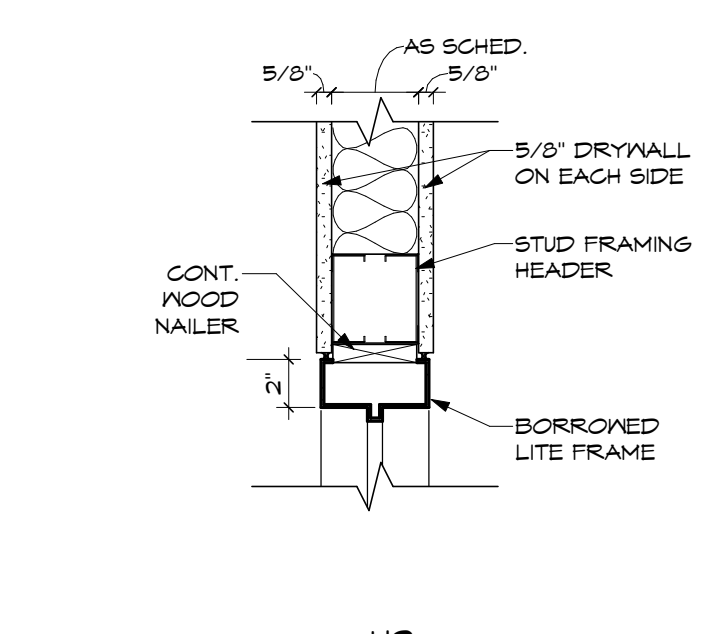
2 DOOR TYPE



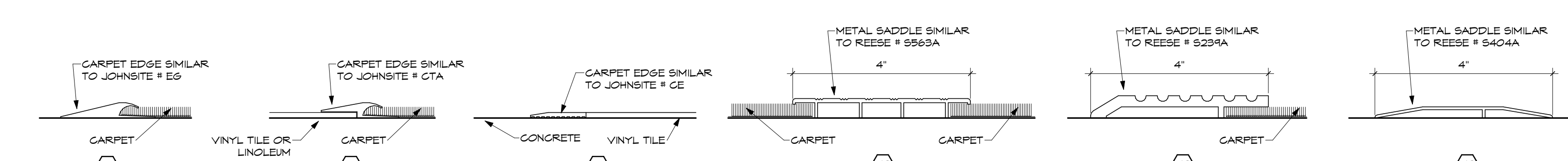
1 DOOR FRAME TYPE



10 DOOR FRAME AND HEAD DETAILS



J3



11 FLOOR EDGE DETAILS

SHEET NOTES:

GENERAL NOTES:

KEY PLAN:

No.	Revisions / Submissions	Date

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**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
KETTERING, OH 45420

**DOOR SCHEDULE & DETAILS**

Comm. No.	20605.00	Date	2022/01/26
Drawn	DJB	Checked	EGS
Drawing No.		<b>2.A001</b>	

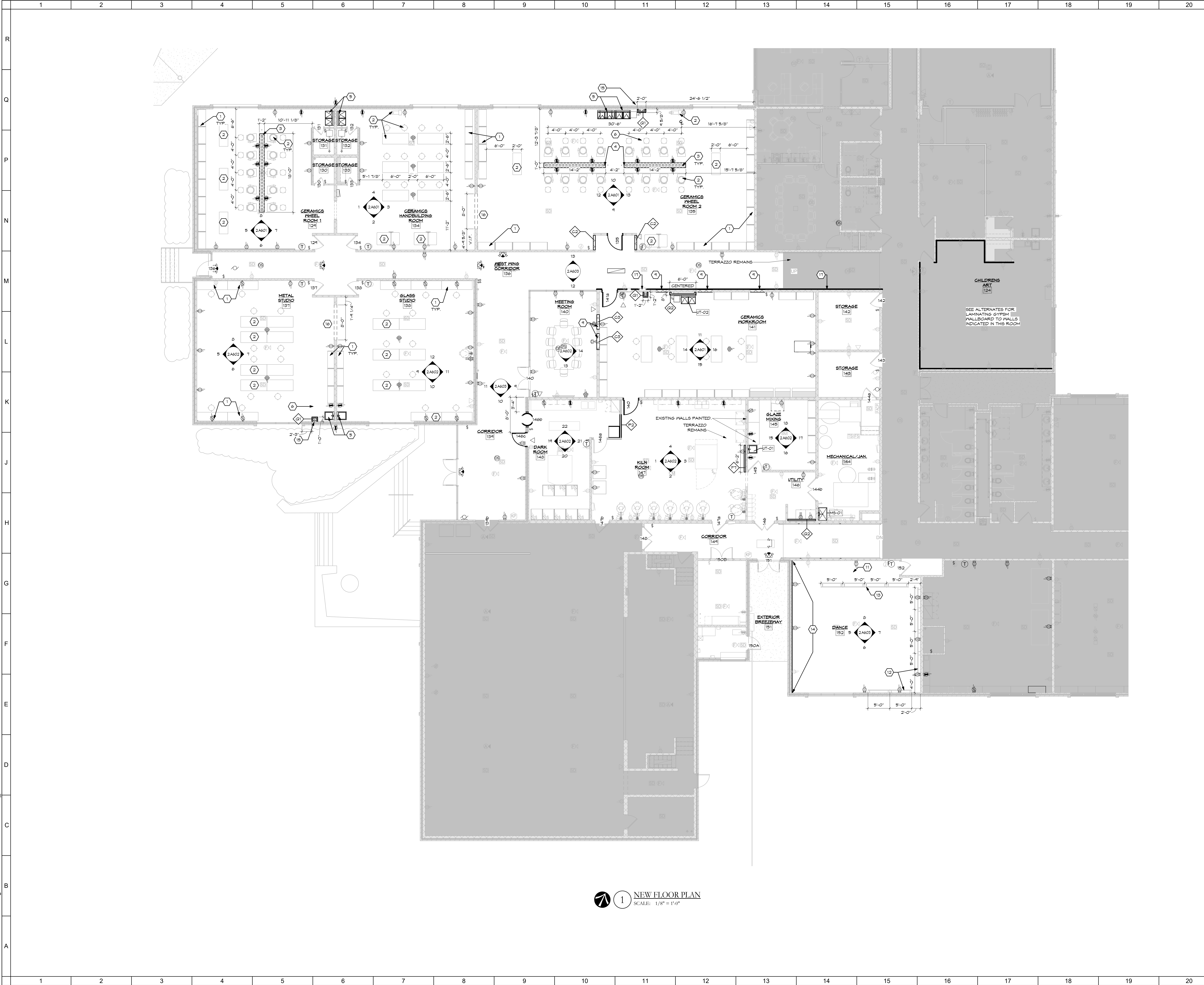
STATE OF OHIO  
JOHN CHARLES FABELO  
711179  
KING OF ARCHES  
JOHN C. FABELO  
LICENSE ARC 9711799, EXPIRES: 12/31/22  
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1 NEW FLOOR PLAN  
SCALE: 1/8" = 1'-0"

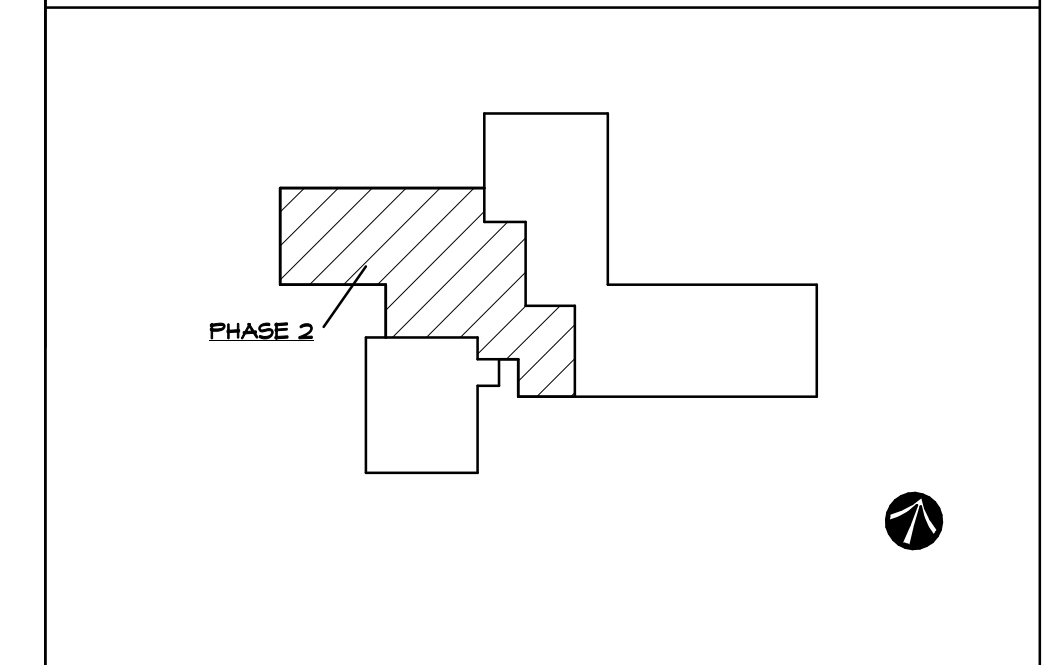
○ SHEET NOTES:

1. SHELVING UNITS/SYSTEM BY OWNER. SHOWN FOR COORDINATION WITH WALL MOUNTED INFRASTRUCTURE.
2. LOOSE EQUIPMENT FURNISHED BY OWNER. SHOWN FOR COORDINATION WITH OTHER SYSTEMS. OWNER TO INSTALL. CONTRACTOR TO PROVIDE ANY CONNECTIONS TO BUILDING SYSTEMS SUCH AS FLOORING, EXHAUST, HARD WIRE POWER, ETC.
3. LOW WALL ASSEMBLY WITH CAP. REFER TO DETAILS. PROVIDE POWER FOR POTTERY WHEELS.
4. POWER POLE DROP FROM OVERHEAD. SEE RELATED DRAWINGS. ROUTE POWER INTO LOW WALL.
5. NEW FLOORING FUTURE. REFER TO RELATED DRAWINGS. PATCH CONCRETE SLAB WHERE REQUIRED UPON COMPLETION OF ROOF DRAIN PIPING MODIFICATIONS.
6. EXISTING CASEWORK UNIT TO REMAIN.
7. NEW DARK ROOM ENTRANCE DOOR. REFER TO RELATED DETAILS. INFILL & EXISTING OPENING. MATCH ADJACENT CONSTRUCTION TO PROVIDE A FLUSH FINISH. PREP FOR SPECIFIED WALL FINISH.
8. NEW WASHER/DRYER HOOKUP. REFER TO ALTERNATES AND RELATED DRAWINGS.
9. RAMP AT NEW RAISED FLOOR SYSTEM. PROVIDE WALL MOUNTED WOOD HANDRAIL, 1-1/2" DIAMETER.
10. NEW 1-1/2" ASH WOOD BARRE ON WALL BRACKETS.
11. NEW 1-1/2" ASH WOOD BARRE ON FLOOR MOUNTED BRACKETS.
12. NEW WALL MOUNTED MIRRORS BY OWNER.
13. RELOCATED STORM PIPING. REFER TO RELATED DRAWINGS.
14. NEW OPENINGS IN WALL. PROVIDE NEW SUPPORT AS REQUIRED. REFER TO STRUCTURAL DRAWINGS. COORDINATE CUTS WITH MASONRY JOINTS. VERIFY DIMENSIONS IN THE FIELD.
15. LAMINATE EXISTING MASONRY WALL WITH 5/8" GYPSUM HALLEBOARD FROM FLOOR TO ABOVE CEILING. ADHERE TO SUBSTRATE. PROVIDE GROUT BEAD AT EXPOSED EDGES AND CALK THE JOINT AT MASONRY. PROVIDE 4" VINYL BASE AT FLOOR.

GENERAL NOTES:

SEE ALTERNATES FOR LAMINATING GYPSUM HALLEBOARD TO WALLS INDICATED IN THIS ROOM.

KEY PLAN:



No.	Revisions / Submissions	Date

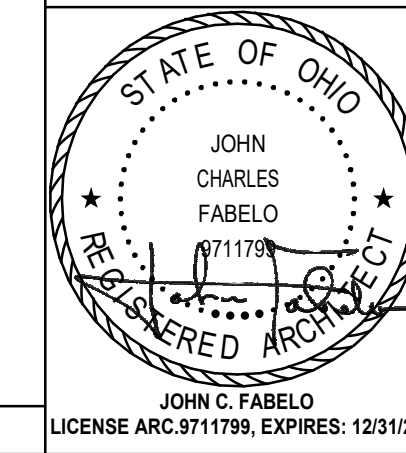
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**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
KETTERING, OH 45420

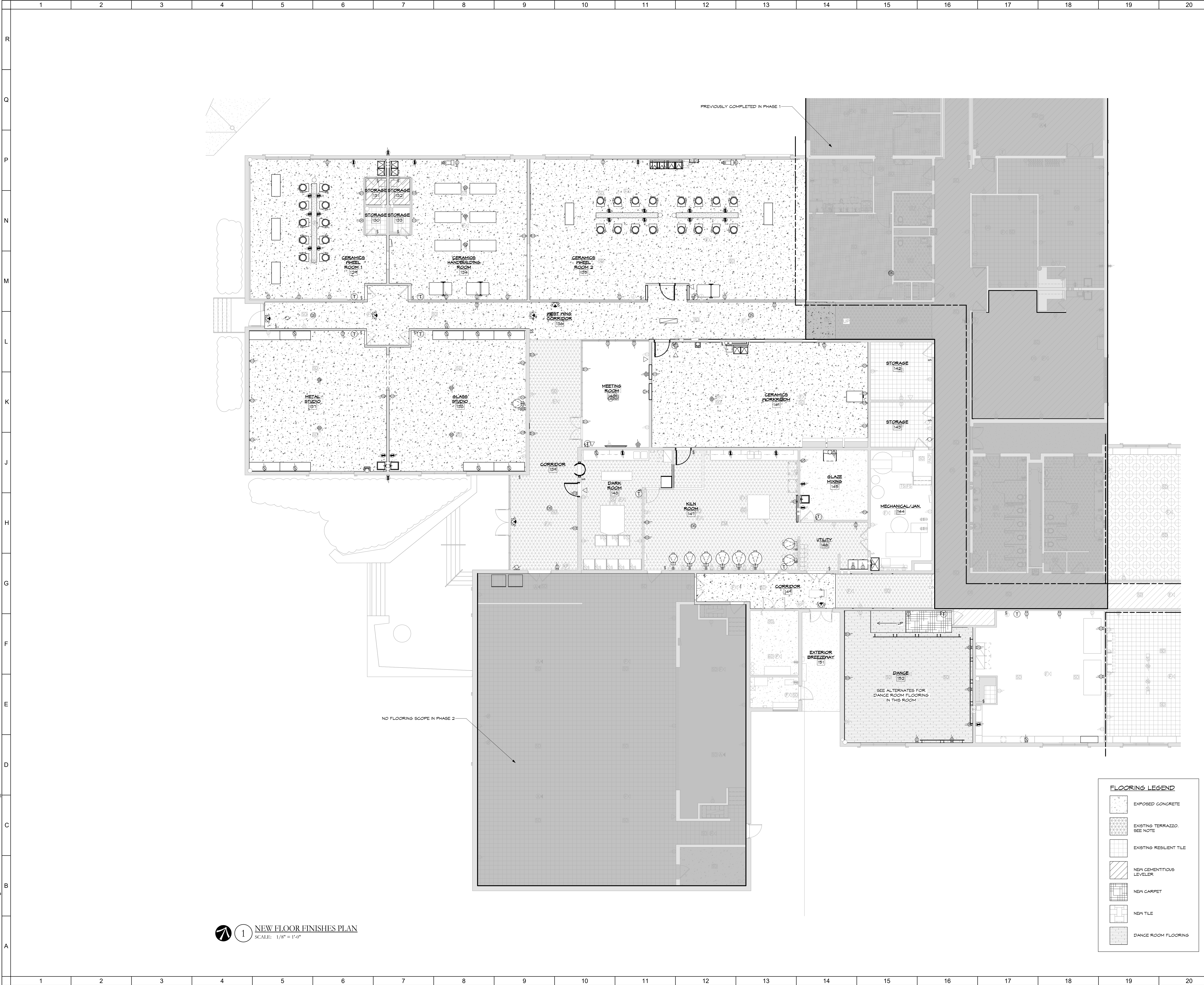
NEW FLOOR PLAN	
Comm. No.	Date
20605.00	2022/01/26
Drawn	Drawing No.
DJB	2.A101
Checked	EGS





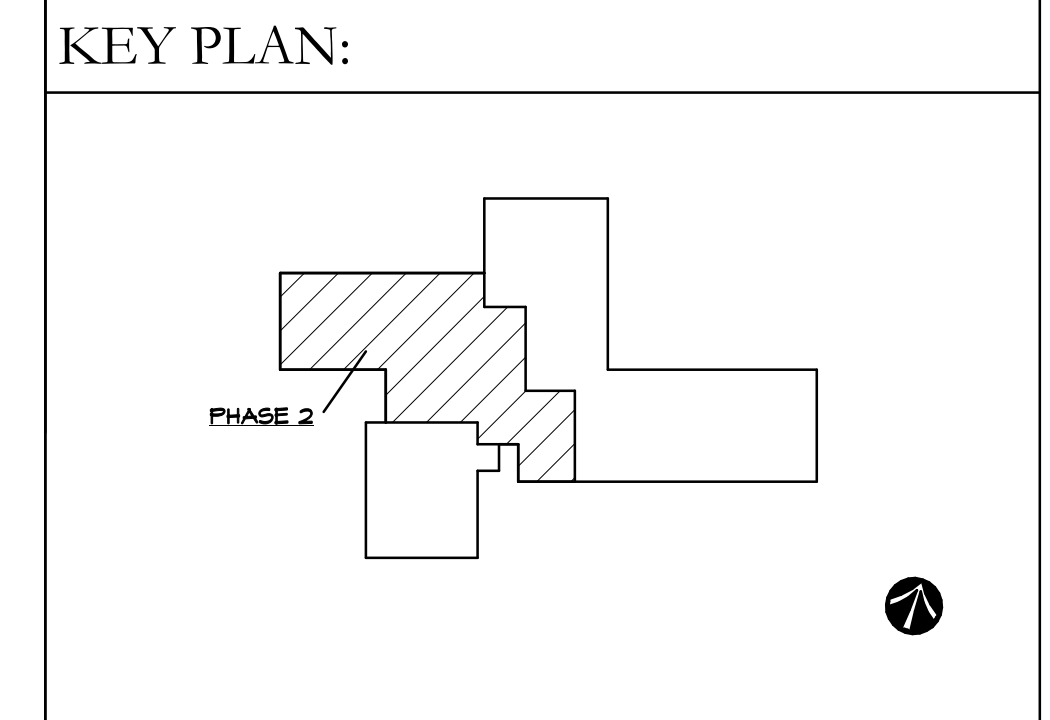
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○ SHEET NOTES:

- GENERAL NOTES:**
- A. EXISTING FLOOR SURFACE SHALL REMAIN IN MANY INSTANCES. CONTRACTOR SHALL INCLUDE NECESSARY FLOOR PREPARATIONS AS REQUIRED FOR THE NEW FINISH AS SPECIFIED.
  - B. CONTRACTOR SHALL REPAIR CMU WALL SURFACES AS REQUIRED AFTER DEMOLITION OPERATIONS TO MATCH OWNERS MOCKUPS FOR FINAL PAINT FINISH.
  - C. EXISTING GLAZED CMU SHALL REMAIN AS THE FINAL FINISH IN ALL INSTANCES EXCEPT WHERE BEING COVERED BY ADDITIONAL WALL CONSTRUCTION OR OTHER FINISHES APPLIED OVERTOP.
  - D. STANDARD CMU SHALL BE PAINTED UNLESS NOTED OTHERWISE.
  - E. EXISTING AND NEW DOOR FRAMES SHALL BE PAINTED AS PER THE MATERIAL SCHEDULE.
  - F. REPAIR ALL EXISTING WOOD DOORS AND WOOD TRANSOM PANELS IN PREPARATION FOR A NEW PAINT FINISH AS SPECIFIED.
  - G. ALL NEW GLAZING IN NEW DOORS/SIDELITES/TRANSOMS SHALL BE TEMPERED. EXISTING GLAZING IN DOORS/SIDELITES/TRANSOMS TO REMAIN SHALL BE RETAINED AND DOES NOT REQUIRE REPLACEMENT. EXISTING DOORS ARE TYPICALLY HAVING LOCKSETS REPLACED TO PROVIDE A LEVER HANDLE. HINGES AND OTHER HARDWARE TYPICALLY WILL REMAIN. REFER TO DOOR SCHEDULE AND HARDWARE SPECIFICATION.
  - H.



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**CITY OF KETTERING  
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**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
KETTERING, OH 45420

**FLOOR FINISH PLAN**

Comm. No.	Date
20605.00	2022/01/26
Drawn	Drawing No.
DJB	2.A102
Checked	EGS

STATE OF OHIO  
JOHN CHARLES FABELO  
711179  
Kettering, OH  
ARCHITECT  
JOHN C. FABELO  
LICENSE ARC 9711799, EXPIRES: 12/31/23

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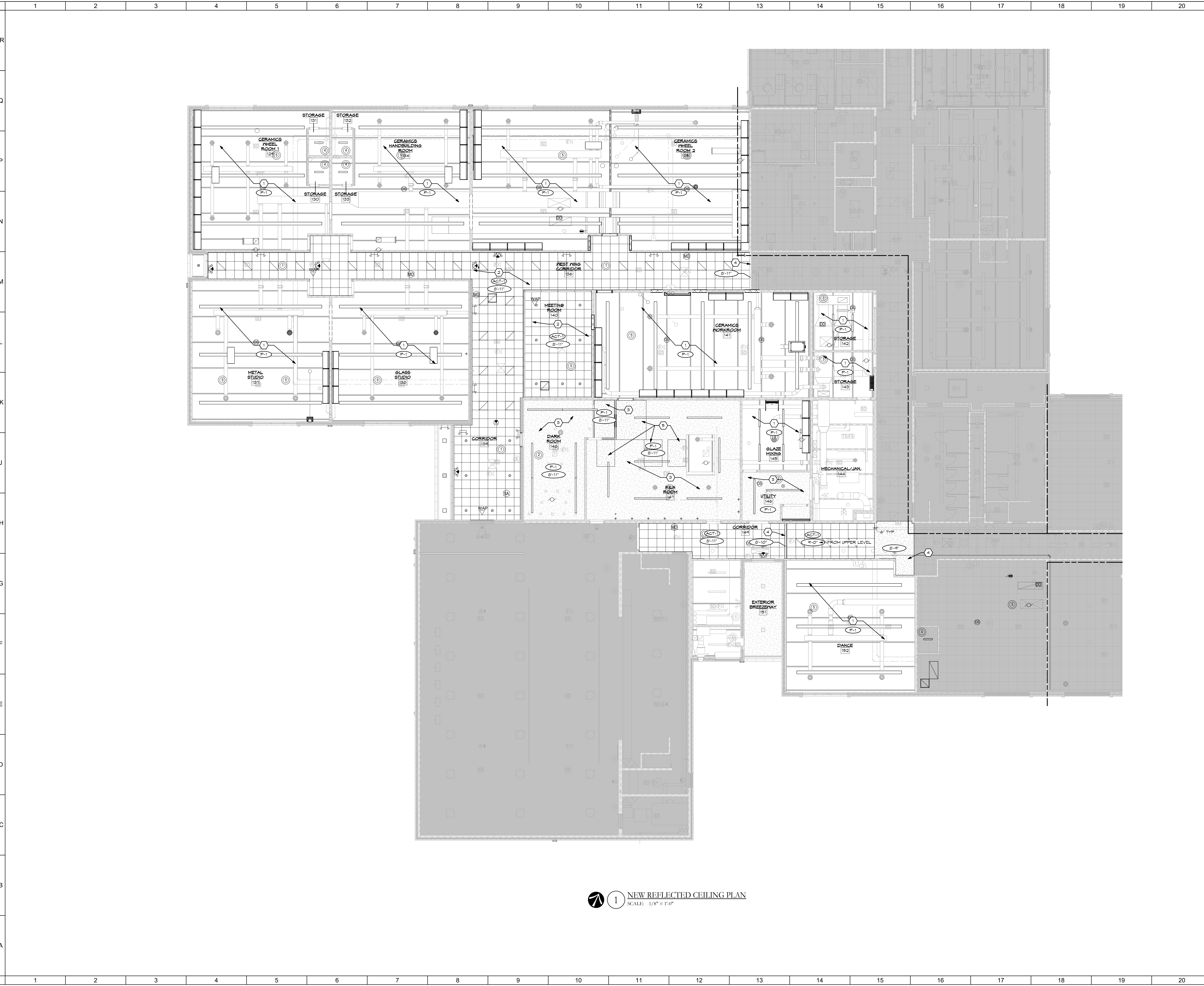
**FLOORING LEGEND**

- EXPOSED CONCRETE
- EXISTING TERRAZZO. SEE NOTE
- EXISTING RESILIENT TILE
- NEW CEMENTITIOUS LEVELER
- NEW CARPET
- NEW TILE
- DANCE ROOM FLOORING

**1 NEW FLOOR FINISHES PLAN**  
SCALE: 1/8" = 1'-0"



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○ SHEET NOTES:

1. EXPOSED METAL DECK AND STRUCTURE. PREP FOR NEW FINISH AS SPECIFIED.
2. ACoustIC CEILING SYSTEM AS SPECIFIED AND SCHEDULED.
3. EXISTING DRYWALL CEILING WITH FINISH AS SCHEDULED. PROVIDE PATCHING WHERE REQUIRED AND PREP FOR PAINT AS SCHEDULED.
4. NEW DRYWALL BULKHEAD.
5. INFILL AND PATCH EXISTING GYPSUM CEILING TO MATCH SURROUNDING CONSTRUCTION.

GENERAL NOTES:

KEY PLAN:

No.	Revisions / Submissions	Date

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**CITY OF KETTERING  
 ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
 PHASE 2**

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**NEW REFLECTED CEILING PLAN**

Comm. No.	Date
20605.00	2022/01/26
Drawn	Drawing No.
DJB	2.A201
Checked	EGS

STATE OF OHIO  
 JOHN CHARLES FABELO  
 71179  
 ARCHITECT  
 JOHN C. FABELO  
 LICENSE ARC 9711799, EXPIRES: 12/31/23  
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1 NEW REFLECTED CEILING PLAN  
 SCALE: 1/8" = 1'-0"



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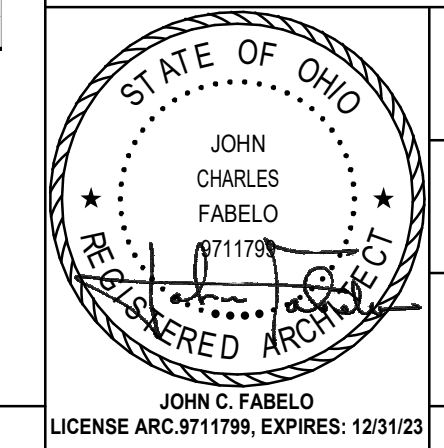
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**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
PHASE 2**

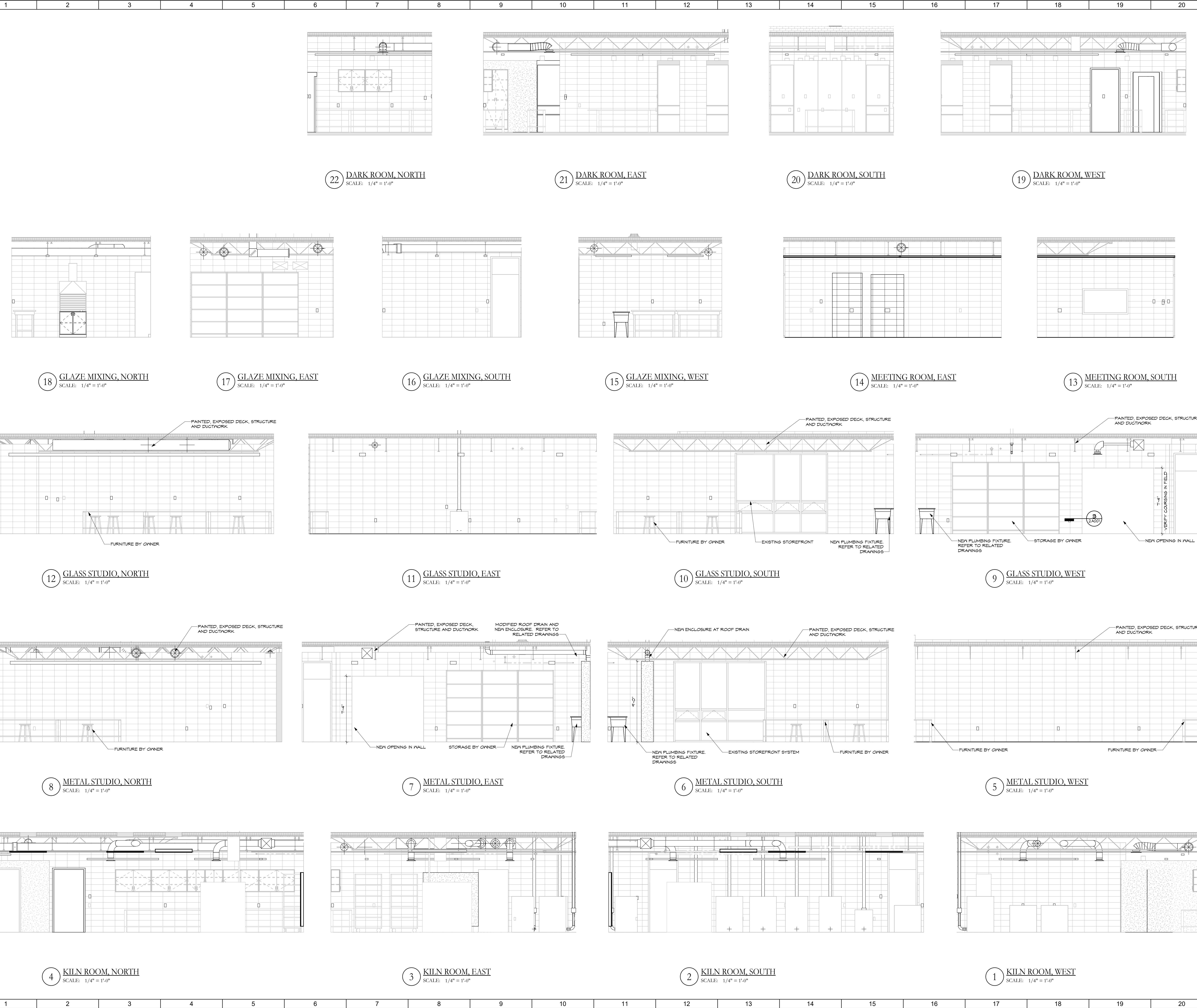
2655 OLSON DRIVE  
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ELEVATIONS	
Comm. No.	Date
20605.00	2022/01/26
Drawn	Drawing No.
DJB	2.A601
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No.	Revisions / Submissions	Date

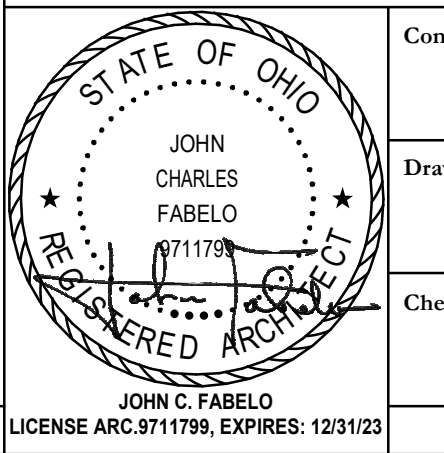
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CITY OF KETTERING  
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**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
KETTERING, OH 45420

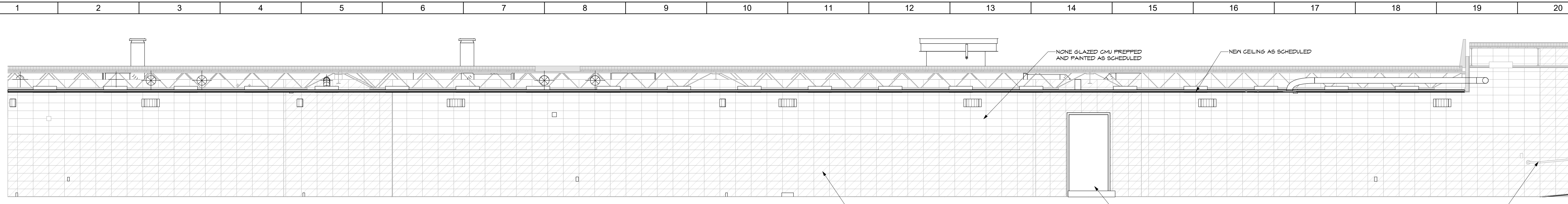
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Comm. No. 20605.00	Date 2022/01/26
Drawn DJB	Drawing No. 2.A602
Checked EGS	



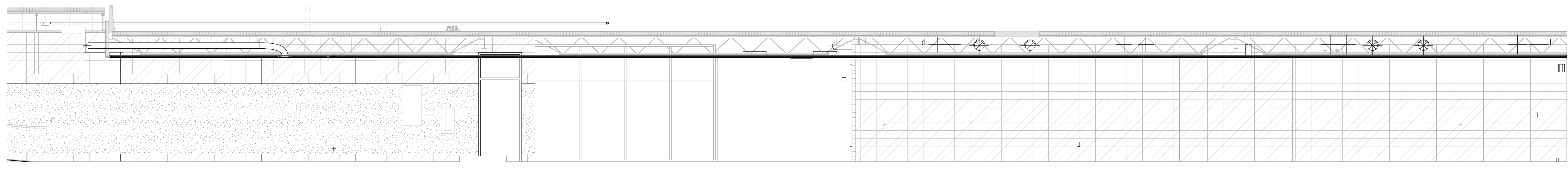


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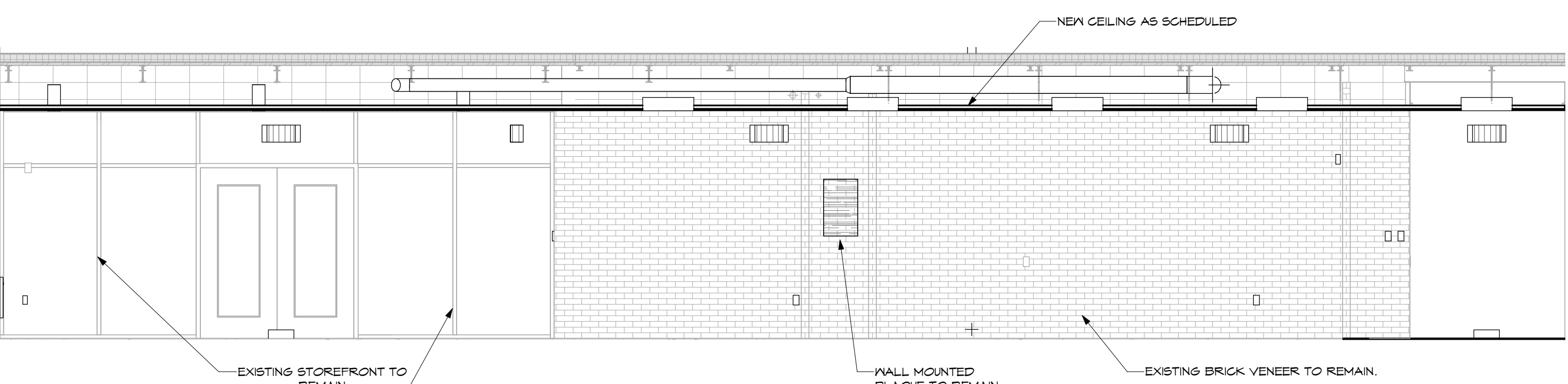
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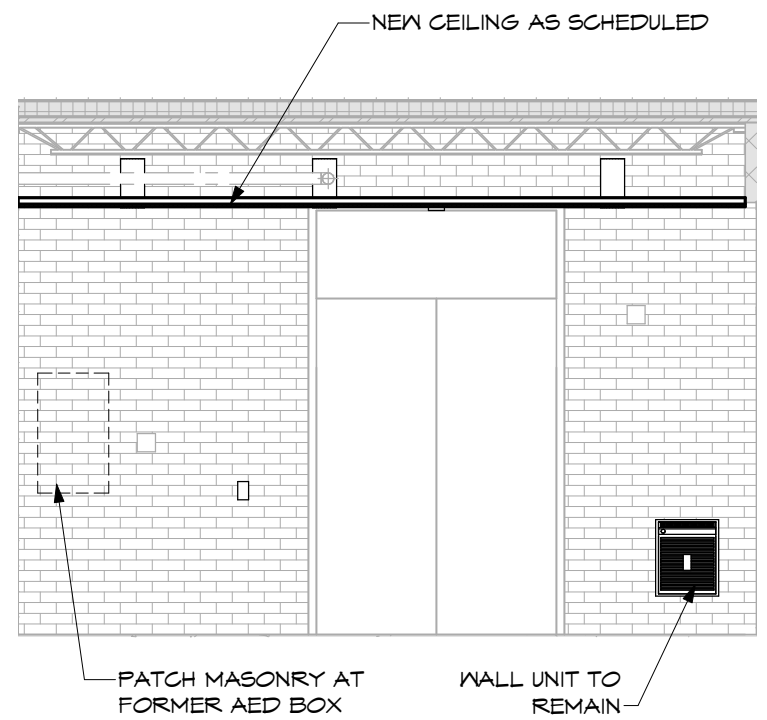
13 CLASSROOM CORRIDOR, NORTH  
SCALE: 1/4" = 1'-0"



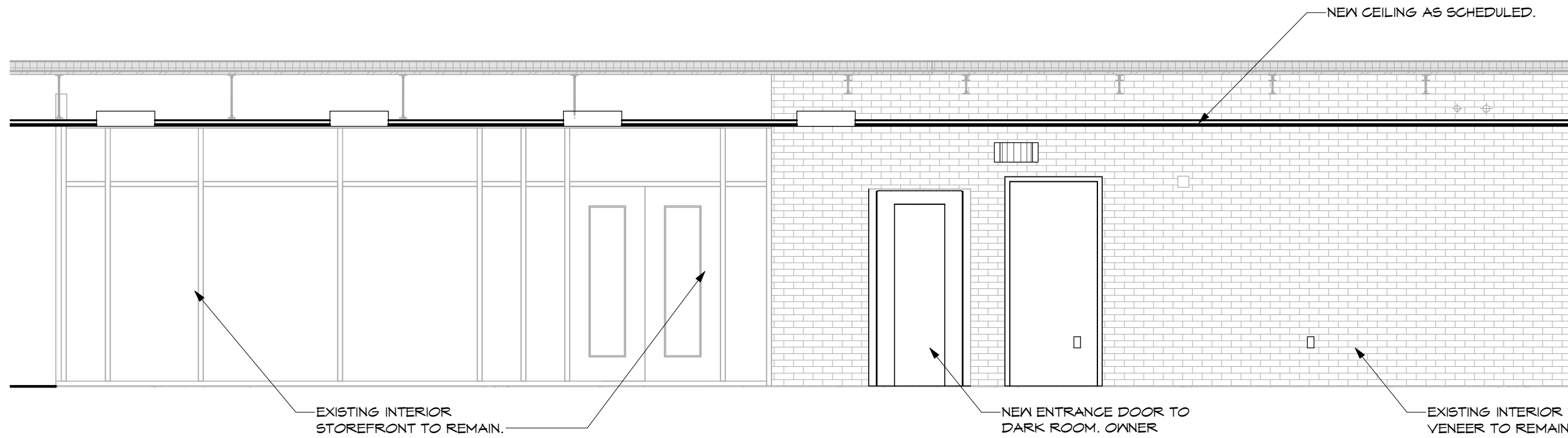
12 CLASSROOM CORRIDOR, SOUTH  
SCALE: 1/4" = 1'-0"



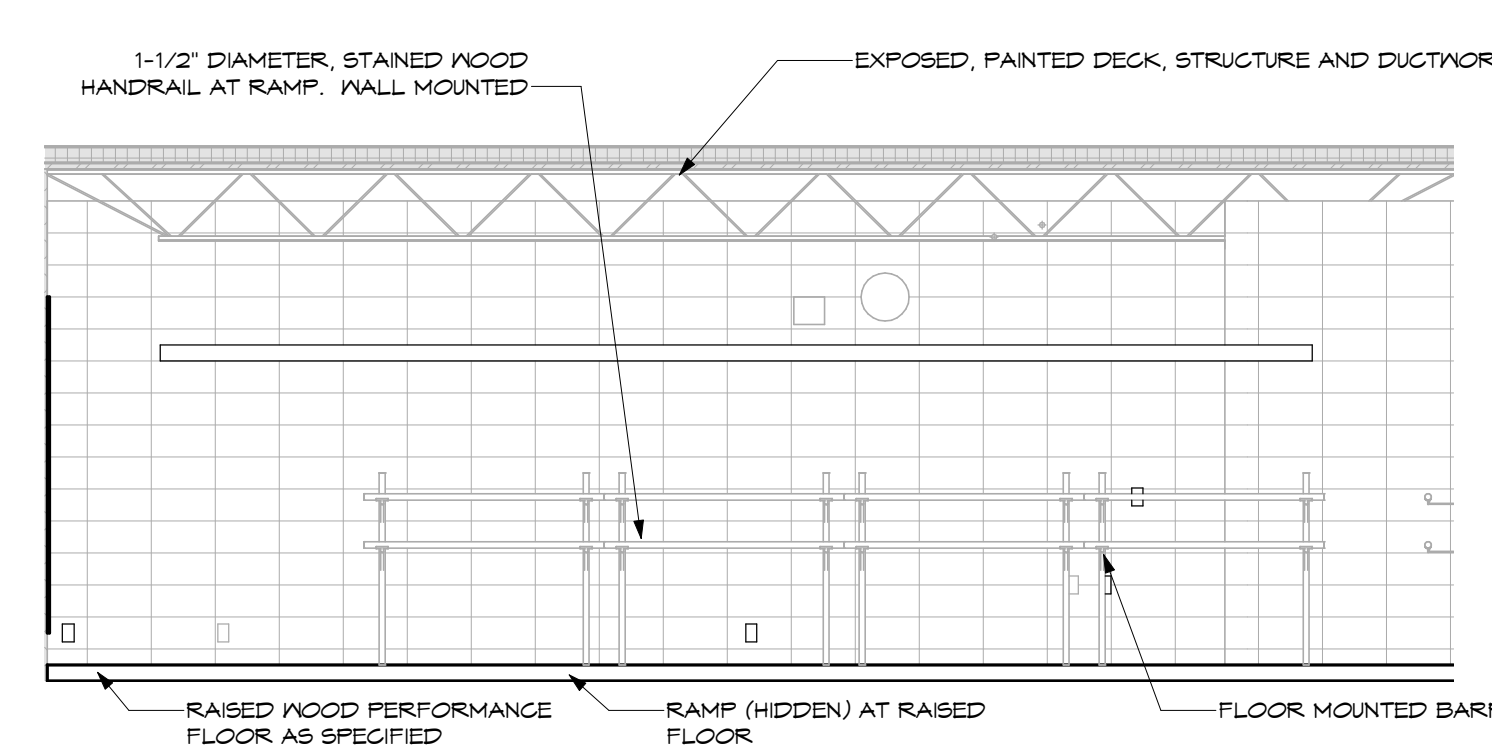
11 CORRIDOR, WEST  
SCALE: 1/4" = 1'-0"



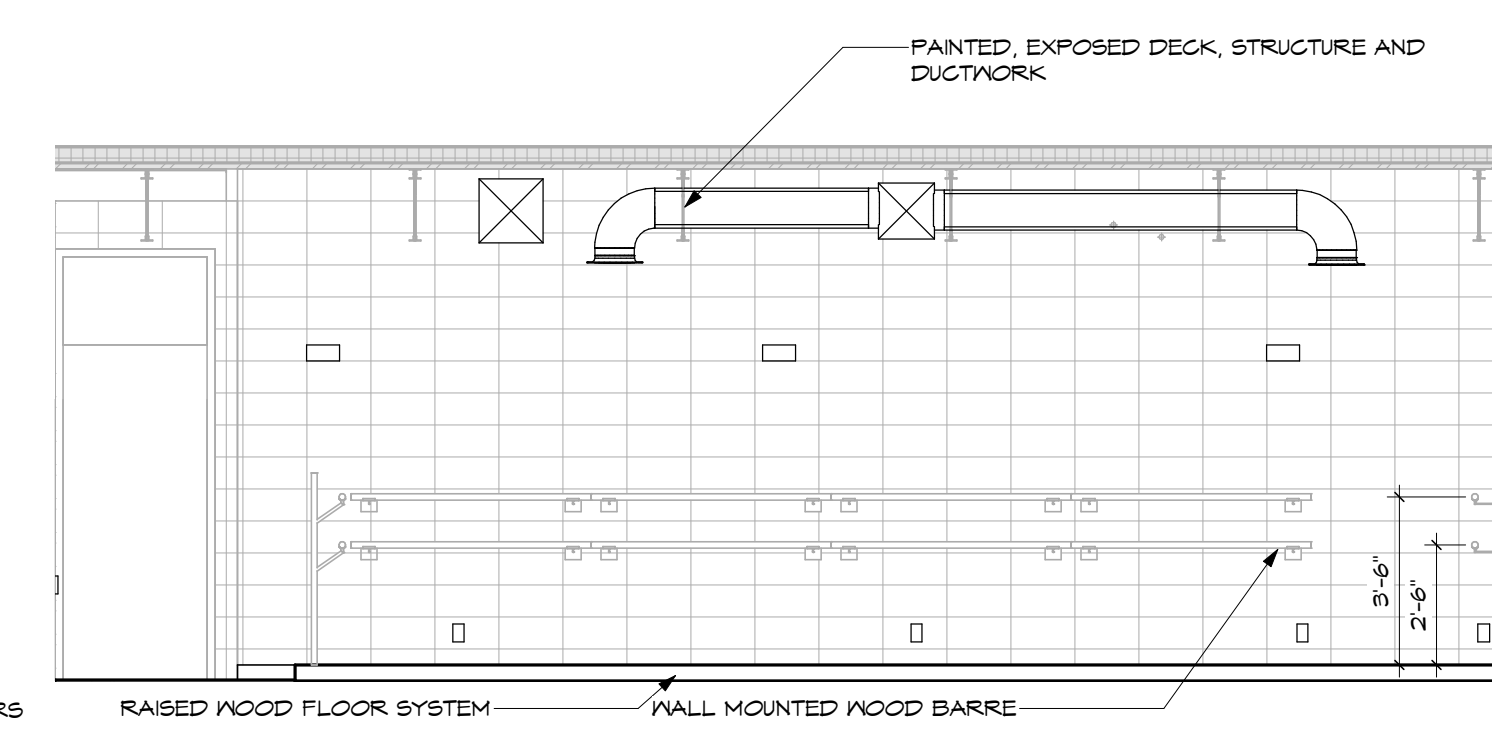
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SCALE: 1/4" = 1'-0"



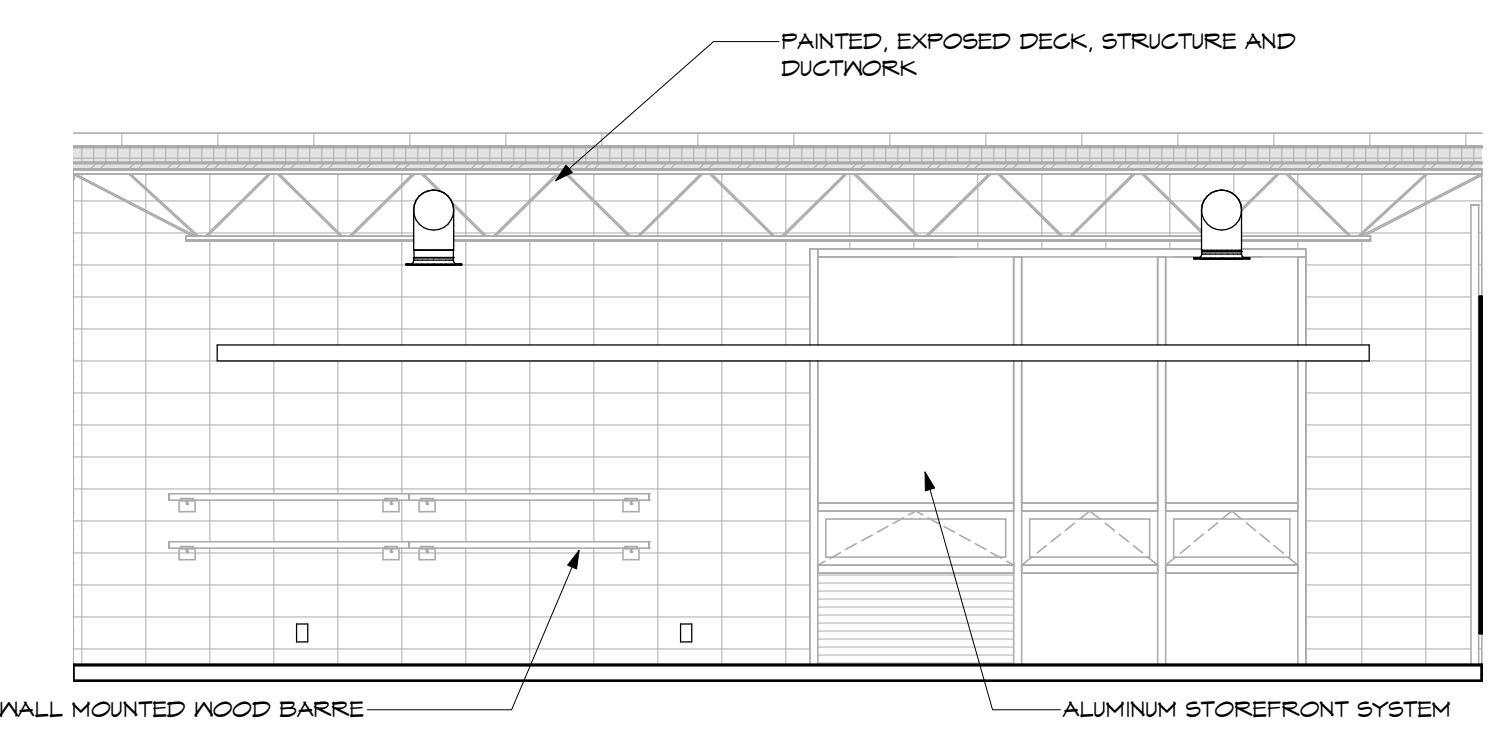
9 CORRIDOR, EAST  
SCALE: 1/4" = 1'-0"



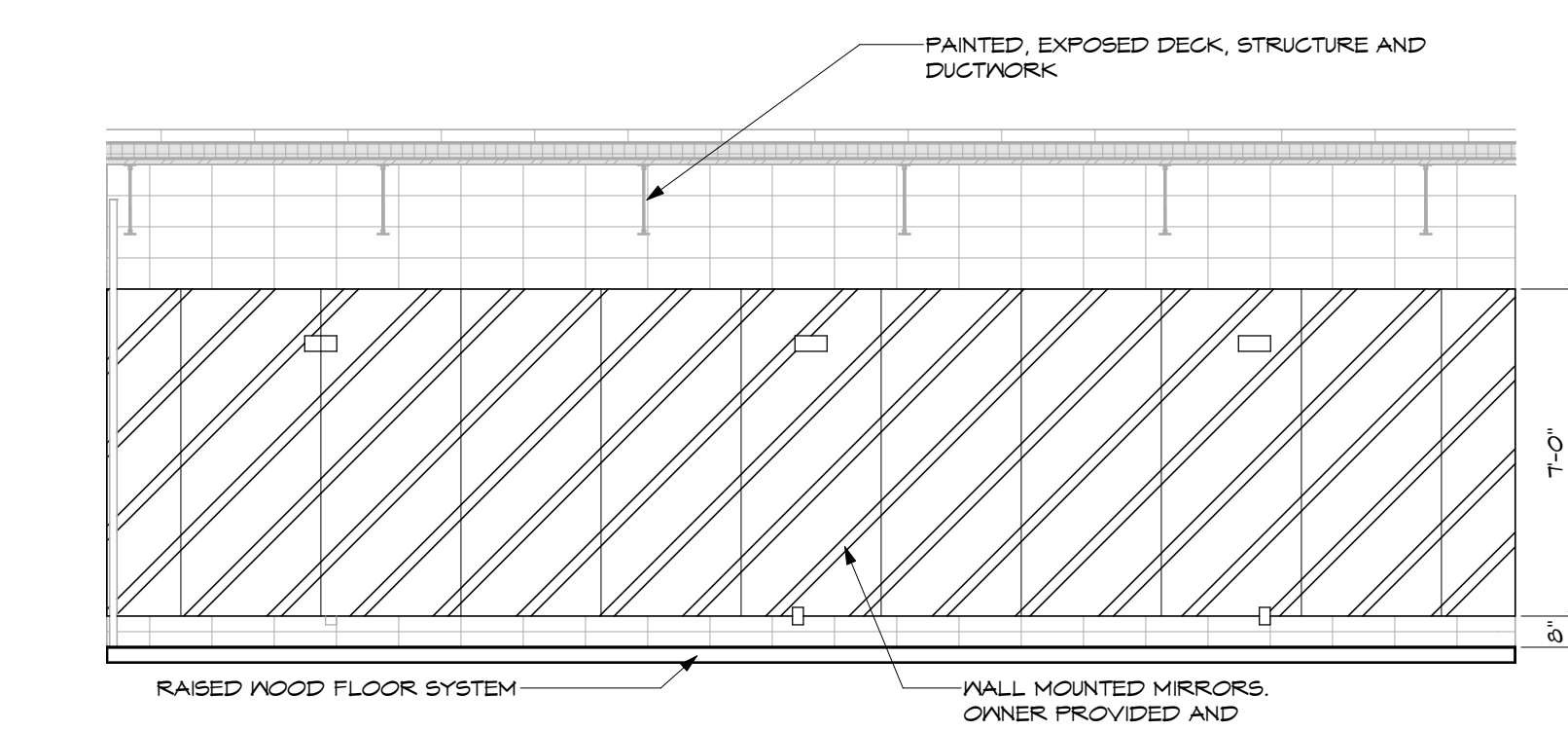
8 DANCE STUDIO, NORTH  
SCALE: 1/4" = 1'-0"



7 DANCE STUDIO, EAST  
SCALE: 1/4" = 1'-0"



6 DANCE STUDIO, SOUTH  
SCALE: 1/4" = 1'-0"



5 DANCE STUDIO, WEST  
SCALE: 1/4" = 1'-0"

○ SHEET NOTES:

GENERAL NOTES:

KEY PLAN:

No.	Revisions / Submissions	Date

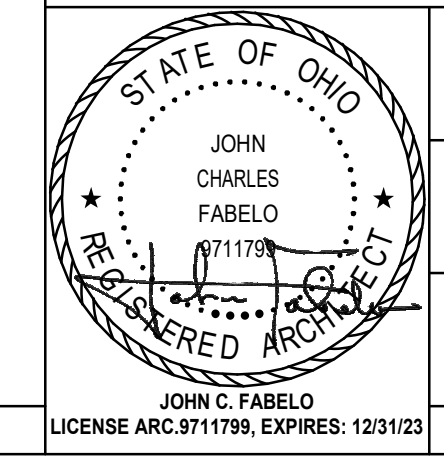
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**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
KETTERING, OH 45420

ELEVATIONS	
Comm. No. 20605.00	Date 2022/01/26
Drawn DJB	Drawing No. 2.A603
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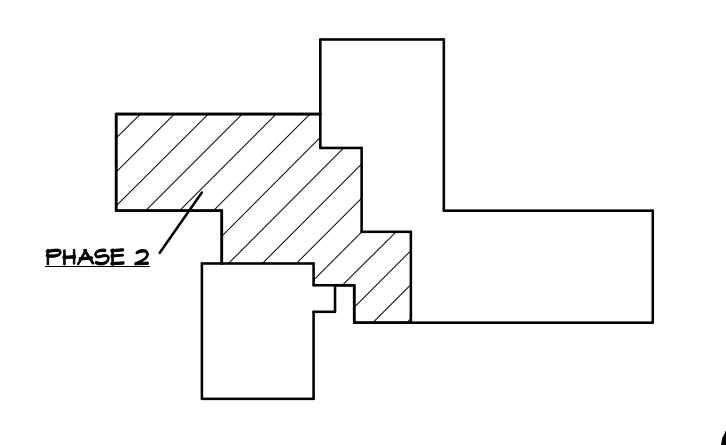
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CITY OF KETTERING  
ROSEWOOD ARTS CENTER

**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
KETTERING, OH 45420

**FURNITURE, FIXTURE & EQUIPMENT PLAN**

**FURNITURE SCHEDULE**

NOTES:

TAG	ITEM TYPE	DESCRIPTION	REMARKS	EXISTING	PROCUREMENT	RELOCATED	NEW
FM1	EQUIPMENT	PUSHMILL		●	●		
S1	SEATING	LAB STOOL	OFGI	●			
SH	OWNER STORAGE	SHELVING	OFGI	●			
WT-2	WORK TABLE	BONDED WORKTABLE	OFGI, ELECTRIC OVERHEAD	●			
WT-3	WORK TABLE	BONDED WORKTABLE	OFGI	●			

**SPECIALTY EQUIPMENT SCHEDULE**

NOTES:

TAG	ITEM TYPE	DESCRIPTION	REMARKS	PROCUREMENT			REQUIRED CONNECTIONS				
				EXISTING	NEW	RELOCATED	ELECTRICAL	MECHANICAL	PLUMBING	OTHER	
EX1	EQUIPMENT	EXTRUDER				●	●				
KLN 1	KILN AND STAND	FIRING KILN	OFGI			●	●				
KLN 2	PORTABLE KILN WITH STAND	FIRING KILN	OFGI			●	●				
KLN 3	PORTABLE KILN WITH STAND	FIRING KILN	OFGI			●	●				
KLN 4	LARGE FIXED KILN	FIRING KILN	REMAIN IN PLACE	●			●	●			
KLN 5	PORTABLE KILN WITH STAND	GLASS KILN	OFGI			●	●				
SE	MECHANICAL VENT	SLOT EXTRACTOR			●		●				
SR	SLAB ROLLER		OFGI				●				
MHL	POTTERY WHEEL		OFGI				●				
MS1	WORK SURFACE		OFGI				●				
WT-1	WORK TABLE	EXISTING UNIT	OFGI				●				

**1 NEW FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

STATE OF OHIO  
JOHN CHARLES FABELO  
711179  
REGISTERED ARCHITECT

Comm. No.	Date
20605.00	2022/01/26
Drawn	Drawing No.
DJB	2.EQ100
Checked	EGS

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LICENSE ARC 8711799, EXPIRES: 12/31/23

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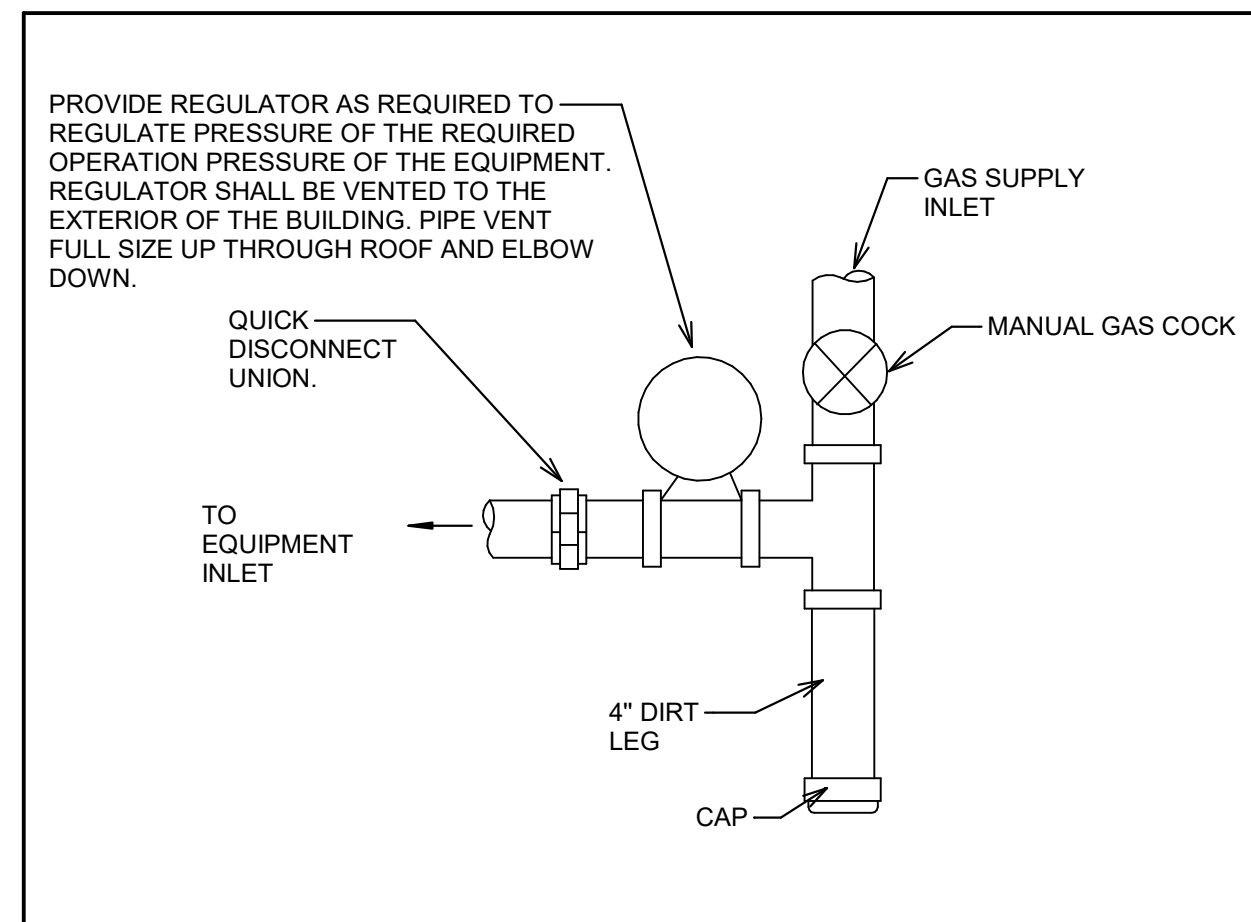


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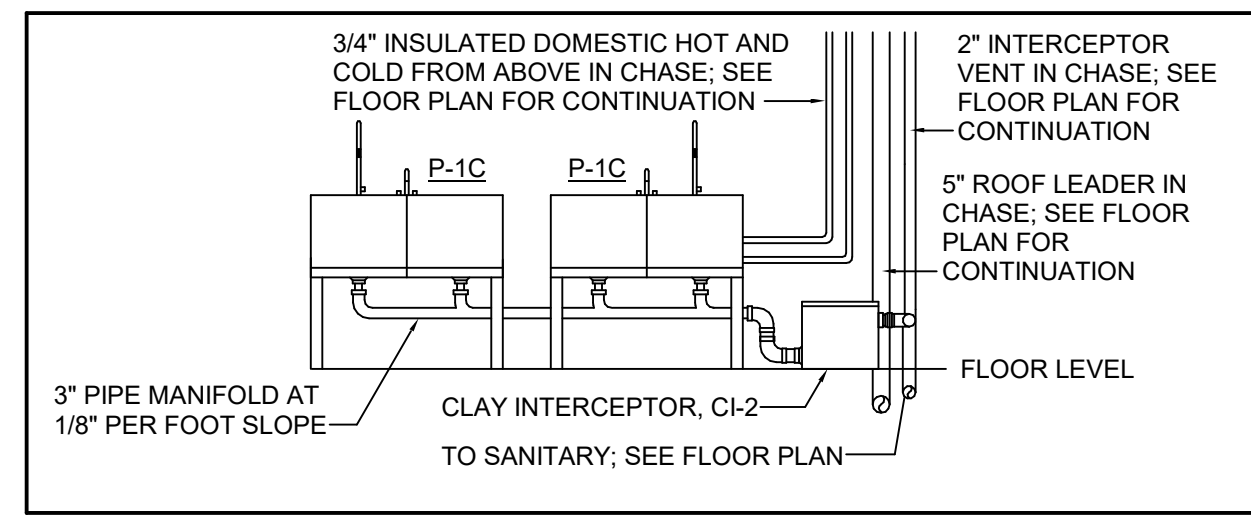
PLUMBING FIXTURE SCHEDULE - PHASE 2										
TAG	DESCRIPTION	MANUFACTURER	MODEL	FAUCET/VALVE MANUFACTURER	FAUCET/VALVE MODEL	CW	HW	SAN	VENT	ACCESSORIES
P-1A	UTILITY SINK	ZURN	MS2620	ZURN	Z812M-XL-2F-HCT	1/2"	1/2"	2"	1 1/2"	FLOOR MOUNT SINGLE COMPARTMENT UTILITY SINK, PVC DRAIN BODY, STEEL SELF-LEVELING LEGS, SWING GOOSENECK SPOUT, 2.2 GPM AERATOR.
P-1B	GLASS & METAL STUDIO UTILITY SINK	ZURN	MS2620	ZURN	Z812M-XL-2F-HCT	1/2"	1/2"	2"	1 1/2"	FLOOR MOUNT SINGLE COMPARTMENT UTILITY SINK, PVC DRAIN BODY, STEEL SELF-LEVELING LEGS, SWING GOOSENECK SPOUT, 2.2 GPM AERATOR. PROVIDE WITH WATTS SEDIMENT INTERCEPTOR SI-742 IN LIEU OF P-TRAP. PROVIDE WITH ADDITIONAL CHICAGO FAUCET 920-LVB204B SPRAYER.
P-1C	DOUBLE COMPARTMENT UTILITY SINK	ZURN	MS2623	ZURN	Z812M-XL-2F-HCT	1/2"	1/2"	2"	1-1/2"	FLOOR MOUNT DOUBLE COMPARTMENT UTILITY SINK, PVC DRAIN BODY, STEEL SELF-LEVELING LEGS, SWING GOOSENECK FAUCET CENTERED BETWEEN EACH COMPARTMENT, 2.2 GPM AERATOR. PROVIDE WITH ADDITIONAL CHICAGO FAUCET 920-LVB204B SPRAYER BETWEEN TO ONE COMPARTMENT.

INTERCEPTOR SCHEDULE - PHASE 2					
MARK	DESCRIPTION	MANUFACTURER	MODEL	SAN	VENT
CI-1	CLAY INTERCEPTOR	ZURN	Z1181	2"	1-1/2"
CI-2	CLAY INTERCEPTOR	ZURN	Z1181	3"	2"

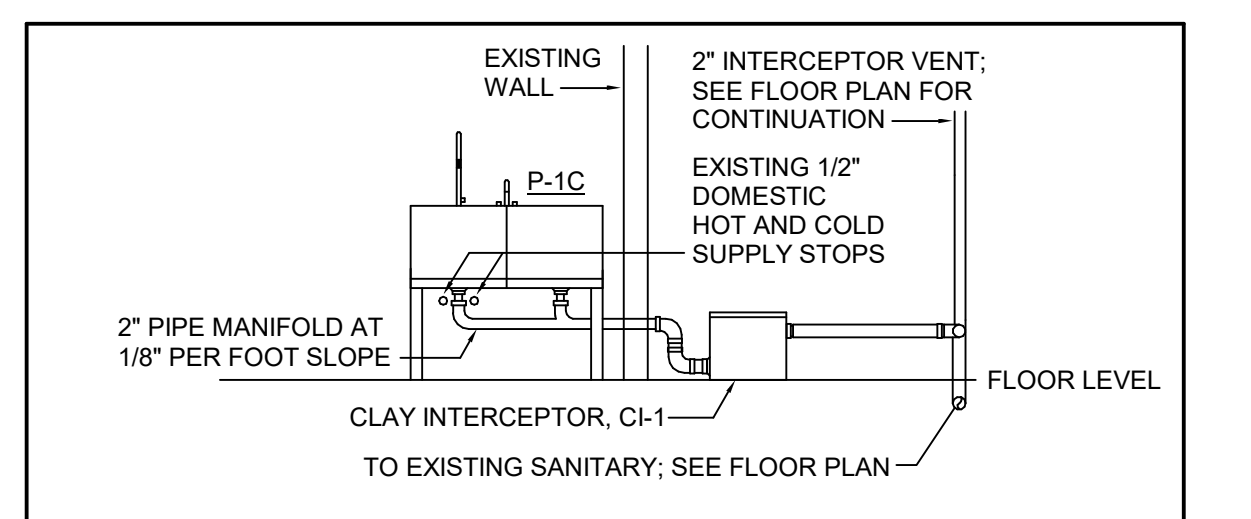
NATURAL GAS SCHEDULE - PHASE 2					
EQUIPMENT TAG	DESCRIPTION	CONDITION	LOAD	PRESSURE	CONNECTION SIZE
RTU-1	ROOFTOP AIR HANDLING UNIT	EXISTING	176 CFH	4.5 - 14.0 IN WG	3/4" NPT
RTU-2	ROOFTOP AIR HANDLING UNIT	NEW	144 CFH	4.5 - 14.0 IN WG	3/4" NPT
RTU-3	ROOFTOP AIR HANDLING UNIT	NEW	320 CFH	4.5 - 14.0 IN WG	3/4" NPT
RTU-6	ROOFTOP AIR HANDLING UNIT	NEW	248 CFH	4.5 - 14.0 IN WG	3/4" NPT
WH	DOMESTIC WATER HEATER	EXISTING	75.5 CFH	5.0 - 14.0 IN WG	3/4" NPT
BOILER	HVAC BOILER	EXISTING	1225 CFH	7.0 IN WG	3" NPT
KILN	GAS POWERED KILN	EXISTING	220 CFH	9.0 - 11.0 IN WG	1-1/2" NPT
TOTAL			NEW BUILDING TOTAL	2408.5 CFH	---



1 TYPICAL GAS CONNECTION DETAIL  
SCALE: NONE



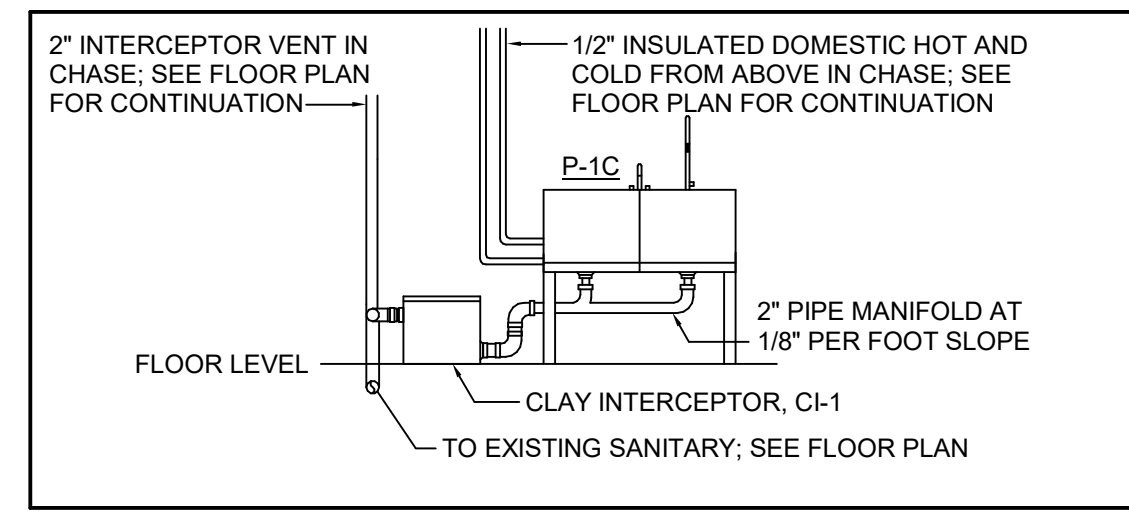
2 ROOM 135 CLAY INTERCEPTOR DETAIL  
SCALE: NONE



3 ROOMS 129 & 134 CLAY INTERCEPTOR DETAIL  
SCALE: NONE

**SYMBOLS & ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR		POINT OF CONNECTION
CW	DOMESTIC COLD WATER		LIMIT OF DEMOLITION
DN	DOWN		PIPE ELBOW TURNING UP/TURNING DOWN
FPWH	FREEZE PROOF WALL HYDRANT		PIPE TEE TURNING UP/TURNING DOWN
HB	HOSE BIBB		FIRE PROTECTION LINE
HW	DOMESTIC HOT WATER		GAS LINE
NTS	NOT TO SCALE		ROOF LEADER PIPING
ORL	OVERFLOW ROOF LEADER		SANITARY WASTE PIPING
PSI	POUNDS PER SQUARE INCH		VENT PIPING
RHW	DOMESTIC RECIRCULATING HOT WATER		EXISTING PIPING (THIN LINE)
RL	ROOF LEADER		ABANDONED EXISTING PIPING (THIN LINE)
SCW	SOFT DOMESTIC COLD WATER		DOMESTIC COLD WATER PIPING
TYP	TYPICAL		DOMESTIC HOT WATER SUPPLY
V#	VENT THRU ROOF		DOMESTIC RECIRCULATING HOT WATER
P-#	PLUMBING FIXTURE DESIGNATOR		BALANCING VALVE
RD-#	ROOF DRAIN DESIGNATOR		BALL VALVE
X	TAGGED NOTE DESIGNATOR		SAFETY RELIEF VALVE
A	REVISION DESIGNATOR		SAFETY RELIEF VALVE
			PRESSURE REDUCING VALVE
			STRAINER
			CHECK VALVE
			DOUBLE CHECK VALVE ASSEMBLY
			PIPING UNION
			THERMOMETER
			HOSE BIB



4 ROOM 141 CLAY INTERCEPTOR DETAIL  
SCALE: NONE

II BID AND PERMIT SET		
No.	Revisions / Submissions	Date

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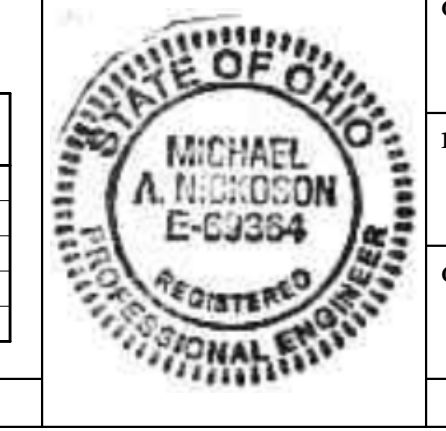
**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
PHASE 2**

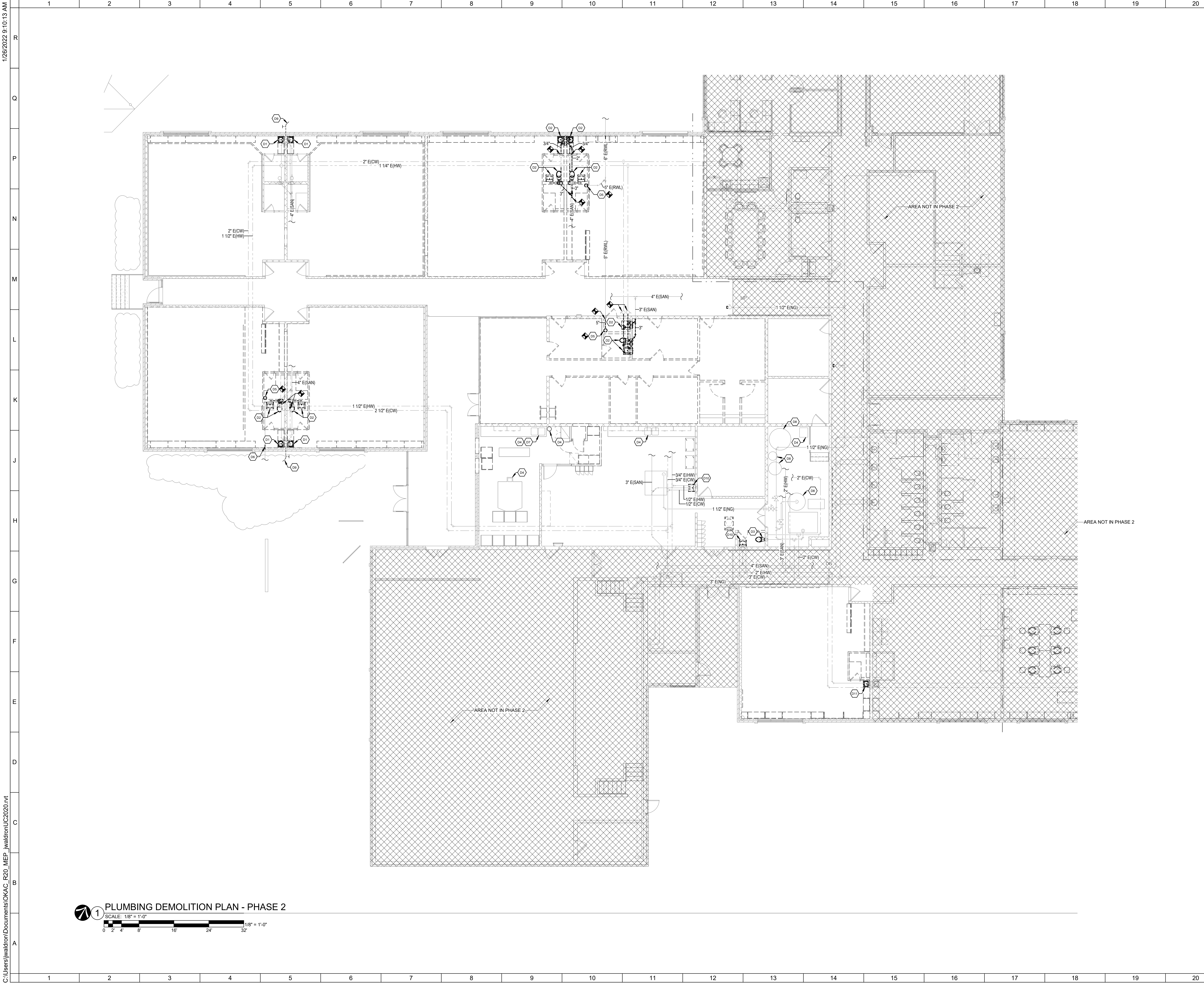
2655 OLSON DRIVE  
KETTERING, OH 45420

PLUMBING LEGEND - PHASE 2		
Comm. No.	Date	
20605.00	2022.01.26	
Drawn	JDW	Drawing No.
Checked	MAN	2.P001
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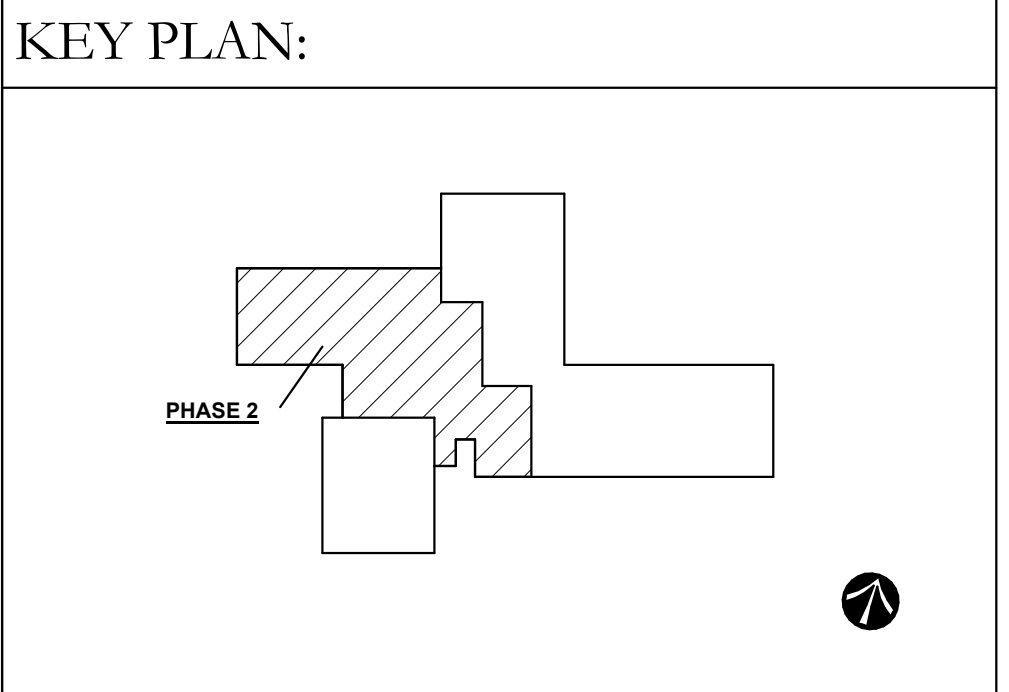
Sheet List - Plumbing - Phase 2	
SHEET #	SHEET NAME
2.P001	PLUMBING LEGEND - PHASE 2
2.PD101	PLUMBING DEMOLITION PLAN - PHASE 2
2.P100	UNDERSLAB PLAN - PHASE 2
2.P101	PLUMBING PLAN - PHASE 2



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- SHEET NOTES:**
- D1 DEMOLISH EXISTING PLUMBING FIXTURE. MAINTAIN EXISTING SUPPLY STOPS AND SANITARY FOR NEW FIXTURE CONNECTIONS.
  - D2 DEMOLISH EXISTING PLUMBING FIXTURE. DEMOLISH SANITARY TO BELOW SLAB AND CAP. DEMOLISH DOMESTIC WATER PIPING BACK TO SHUT-OFF VALVES AND CAP. DEMOLISH VENT PIPING BACK TO MAIN AND CAP. MAINTAIN VENT THROUGH ROOF FOR RECONNECTIONS. PATCH AS NECESSARY.
  - D3 DEMOLISH EXISTING PLUMBING FIXTURE. DEMOLISH ASSOCIATED DOMESTIC WATER TO SUPPLY STOP FOR ABANDONMENT. DEMOLISH ASSOCIATED SANITARY TO BELOW SLAB AND CAP. PATCH AS NECESSARY.
  - D4 EXISTING PLUMBING FIXTURE TO REMAIN.
  - D5 DEMOLISH EXISTING ROOF LEADER PLUMBING FROM ROOF DRAIN TO BELOW SLAB AS SHOWN AND CAP. PATCH AS NECESSARY. MAINTAIN EXISTING ROOF DRAIN FOR RECONNECTION.
  - D6 PARTIALLY DEMOLISH EXISTING ROOF LEADER BELOW SLAB FOR NEW CONNECTION. PATCH AS NECESSARY.
  - D7 EXISTING HOT WATER HEATER LOCATED UNDER SINK TO REMAIN.
  - D8 EXISTING HOT WATER HEATER, STORAGE TANK, AND WATER SOFTENER TO REMAIN.
  - D9 DEMOLISH EXISTING FREEZEPROOF WALL HYDRANT. EXISTING PIPING TO REMAIN FOR RECONNECTION.
  - D10 DEMOLISH EXISTING PLUMBING FIXTURE. MAINTAIN EXISTING SANITARY CONNECTIONS FOR NEW FIXTURE. DEMOLISH EXISTING SUPPLY STOPS FOR NEW FIXTURE CONNECTION.
  - D11 DEMOLISH EXISTING PLUMBING FIXTURE. DEMOLISH ASSOCIATED DOMESTIC WATER TO SUPPLY STOP FOR ABANDONMENT. DEMOLISH ASSOCIATED SANITARY TO WALL AND CAP FOR ABANDONMENT. PATCH AS NECESSARY.



11 BID AND PERMIT SET		2022-01-26
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**INTERIOR RENOVATION**  
**PHASE 2**  
 2655 OLSON DRIVE  
 KETTERING, OH 45420

**PLUMBING DEMOLITION PLAN - PHASE 2**

Comm. No.	20605.00	Date	2022.01.26
Drawn	JDW	Drawing No.	2.PD101
Checked	MAN		

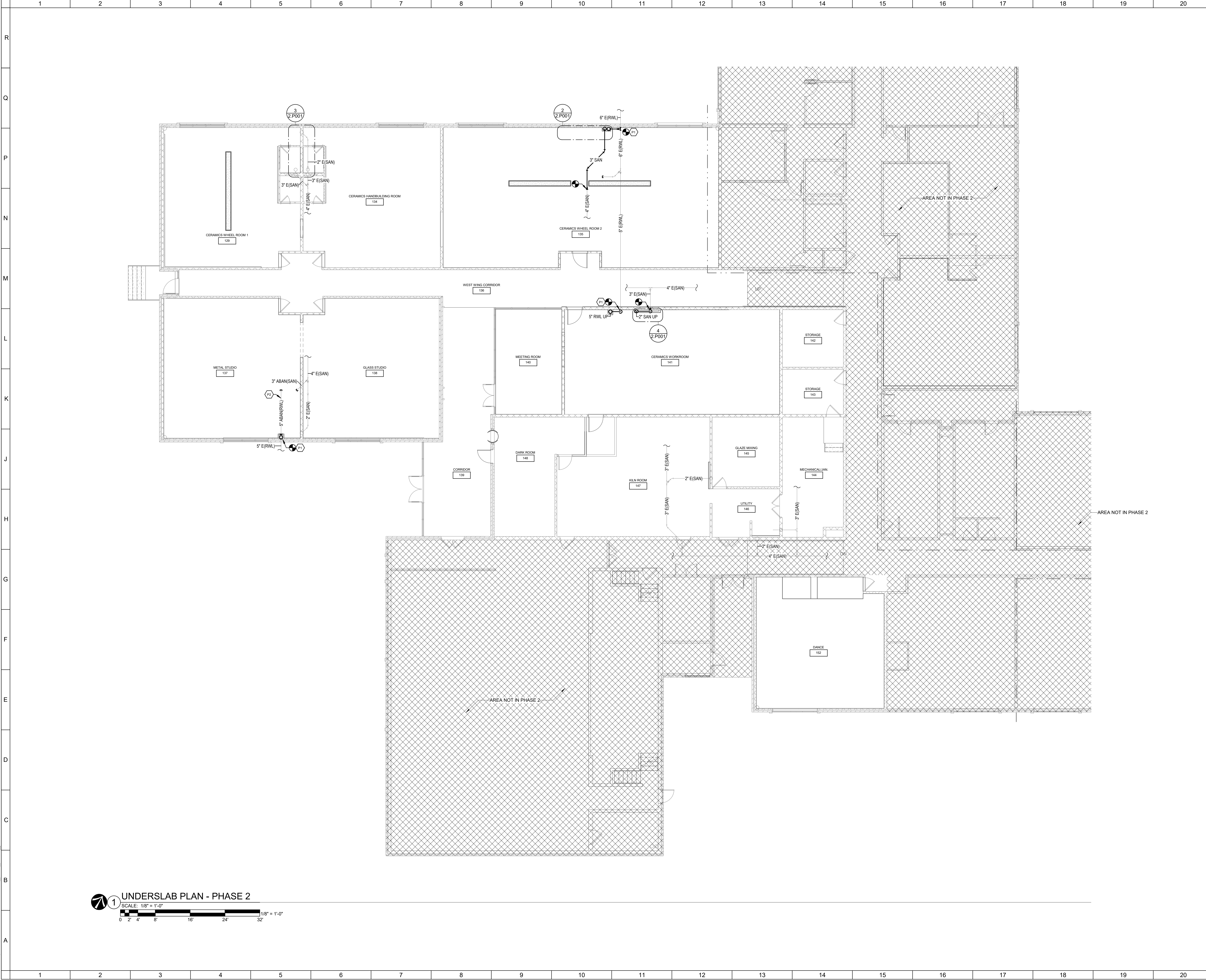
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**1 PLUMBING DEMOLITION PLAN - PHASE 2**  
 SCALE: 1/8" = 1'-0"  
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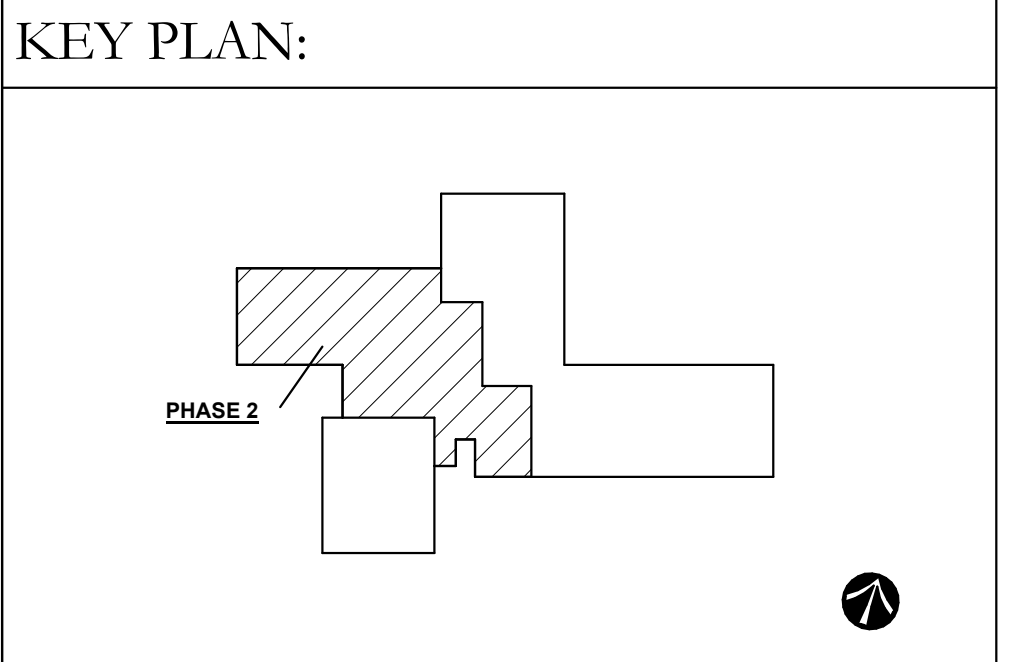
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- SHEET NOTES:**
- P1 CONNECT NEW ROOF LEADER TO EXISTING STORM PIPE BELOW SLAB PATCH AS NECESSARY.
  - P2 CAP ABANDONED PIPE AT BOTH ENDS AS SHOWN AND FILL WITH GROUT.



No.	Revisions / Submissions	Date
11	BID AND PERMIT SET	2022-01-26

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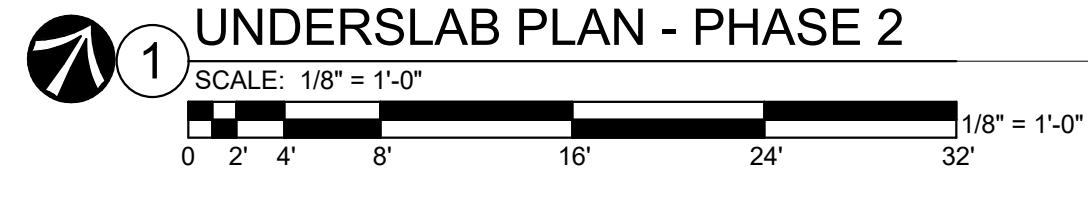
**INTERIOR RENOVATION  
 PHASE 2**

2655 OLSON DRIVE  
 KETTERING, OH 45420

**UNDERSLAB PLAN - PHASE 2**

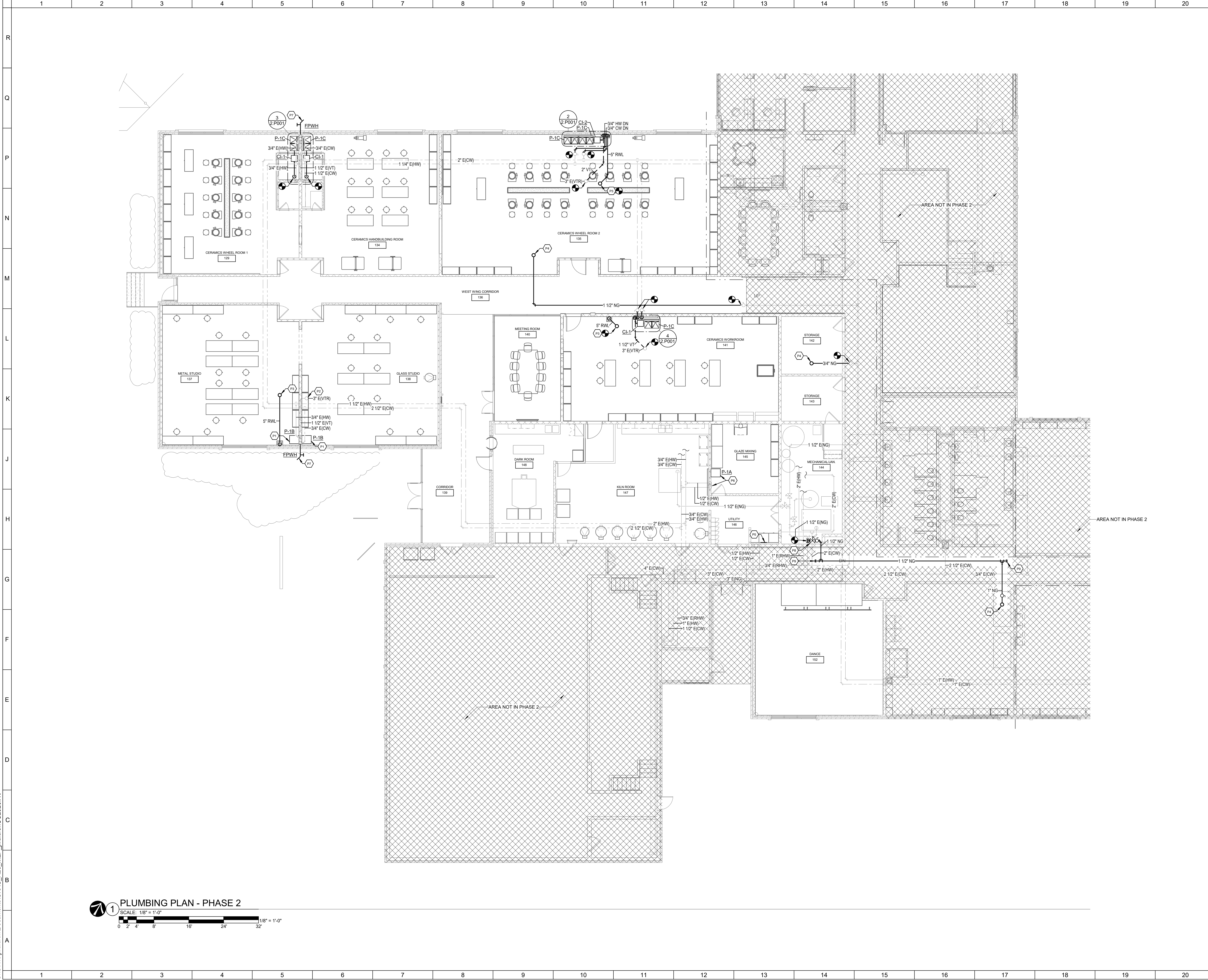
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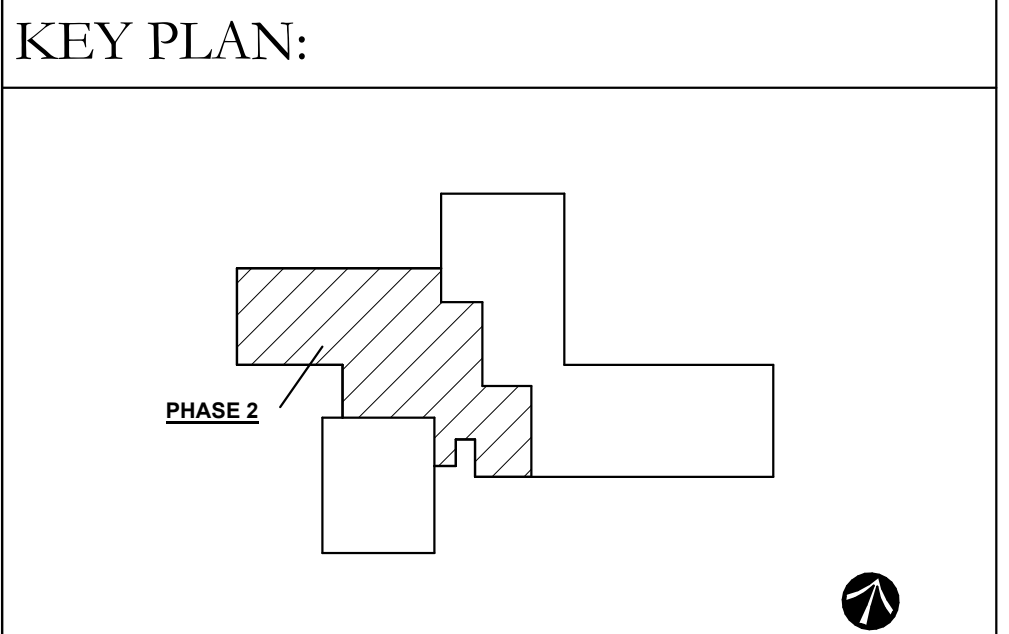




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- SHEET NOTES:**
- P1 CONNECT NEW PLUMBING FIXTURE TO EXISTING SUPPLY STOPS AND SANITARY.
  - P2 RECONNECT SINK VENT TO EXISTING VENT THROUGH ROOF AFTER WALLS ARE DEMOLISHED. NEW VENT TO BE HELD AS CLOSE TO THE DECK AS POSSIBLE.
  - P3 CONNECT NEW ROOF LEADER TO EXISTING ROOF DRAIN. RUN HORIZONTAL ROOF LEADERS WITHIN EXISTING JOIST SPACE.
  - P4 CONNECT NEW GAS PIPING TO ROOFTOP UNIT. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
  - P5 PROVIDE GUY GRAY WASHING MACHINE BOX MODEL 82048 OR APPROVED EQUAL CENTERED WITH NEW WASHING MACHINE. CONNECT TO EXISTING DOMESTIC AND SANITARY IN NEW FURRED WALL.
  - P6 EXTEND NEW SANITARY AND WATER FROM PREVIOUSLY DEMOLISHED HAND SINK TO NEW SINK. ROUTE NEW PIPING WITHIN NEW FURRED WALL. PROVIDE NEW SUPPLY STOPS AT NEW FIXTURE.
  - P7 PROVIDE NEW FREEZEPROOF WALL HYDRANT AT PREVIOUS DEMOLISHED LOCATION. CONNECT TO EXISTING PIPING. PATCH AS NECESSARY.
  - P8 PROVIDE NEW PRESSURE REGULATOR FOR NEW RTUS. SET REGULATOR WITHIN A RANGE OF 10-12 IN WC. CONNECT NEW REGULATOR TO EXISTING VENT PIPING IN MECHANICAL ROOM.
  - P9 PROVIDE CAPPED 1-1/2\"/>



No.	Revisions / Submissions	Date
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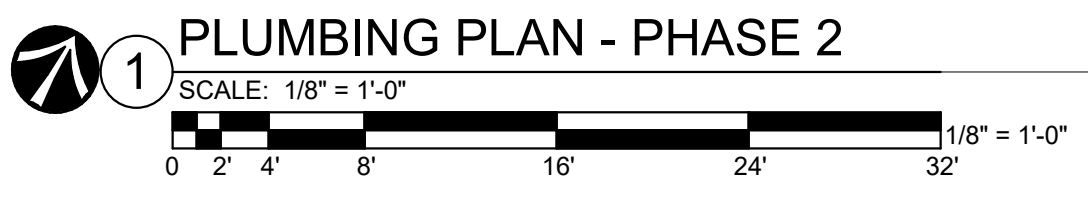
**INTERIOR RENOVATION  
 PHASE 2**

2655 OLSON DRIVE  
 KETTERING, OH 45420

**PLUMBING PLAN - PHASE 2**

Comm. No.	20605.00	Date	2022.01.26
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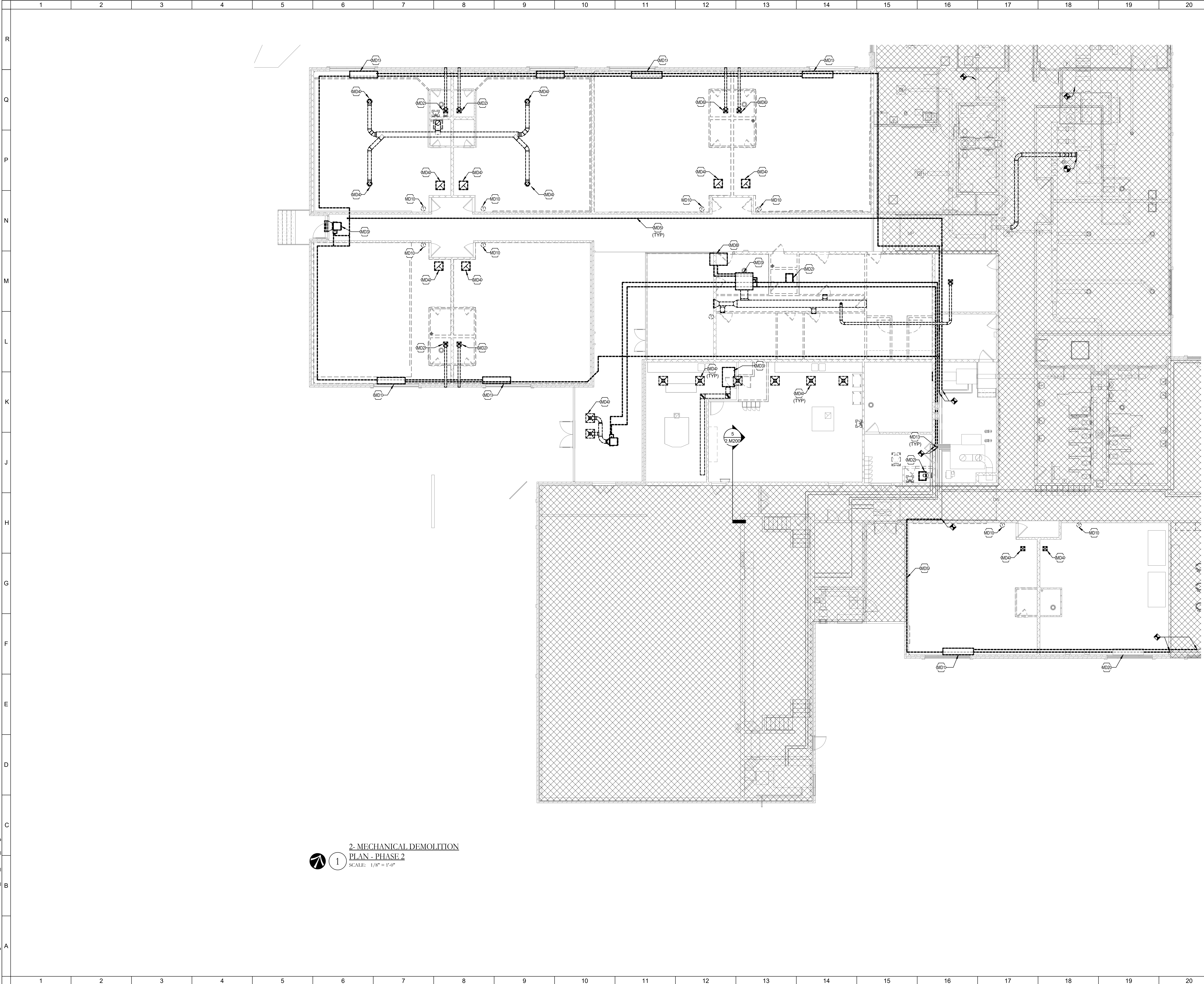
Grid lines 1-20. Mechanical notes and specifications for Phase 2 interior renovation.

SHEET NOTES: KEY PLAN: BID AND PERMIT SET (2022-01-26) CMTA (1650 Lake Shore Drive Suite 380, Columbus, OH 43202) LWC (434 East First Street, Dayton, OH 45402) CITY OF KETTERING ROSEWOOD ARTS CENTER INTERIOR RENOVATION PHASE 2 (2655 OLSON DRIVE, KETTERING, OH 45420) MECHANICAL LEGEND - PHASE 2. Includes drawing date (2022.01.26), drawing number (2.M001), and professional engineer seal for Brian K. Rose.

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT



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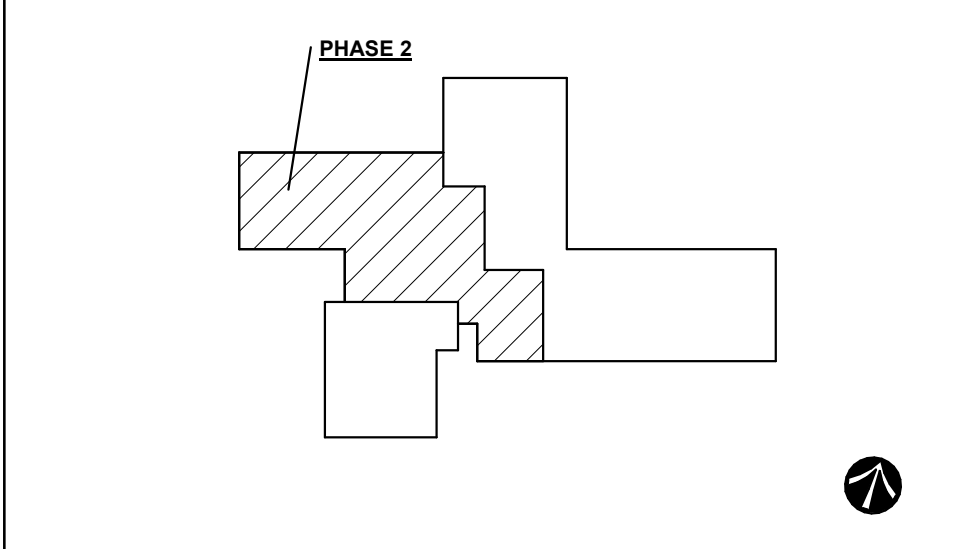


**2-MECHANICAL DEMOLITION**  
**PLAN - PHASE 2**  
 SCALE: 1/8" = 1'-0"

**SHEET NOTES:**

- TAGGED NOTES**
- MD1 REMOVE EXISTING UNIT VENTILATOR AND ALL ASSOCIATED HOT WATER PIPING BACK TO MAIN AND CAP. EXISTING THROUGH WALL LOUVER TO BE PATCHED PER ARCHITECTS PLANS.
  - MD2 REMOVE EXHAUST FAN AND ASSOCIATED DUCTWORK IN THIS LOCATION. EXISTING WALL PENETRATION TO BE PATCHED AIR AND WATER TIGHT.
  - MD3 REMOVE EXISTING FAN COIL UNIT AND ASSOCIATED DUCTWORK AND DIFFUSERS IN THIS LOCATION. ASSOCIATED HOT WATER PIPER TO BE REMOVED.
  - MD4 REMOVE EXISTING AIR DEVICE AND ANY ASSOCIATED DUCTWORK IN THIS LOCATION.
  - MD5 REMOVE EXISTING HOT WATER PIPING IN THIS LOCATION BACK TO POINT OF DEMOLITION.
  - MD6 REMOVE EXISTING EXHAUST FAN IN THIS LOCATION. EXISTING DUCTWORK AND PENETRATION TO BE REUSED FOR FUTURE USE.
  - MD8 REMOVE EXISTING CONDENSING UNIT ON ROOF IN THIS LOCATION. PATCH REFRIGERANT ROOF PENETRATIONS AIR AND WATER TIGHT.
  - MD10 REMOVE EXISTING THERMOSTAT AND ASSOCIATED PNEUMATIC TUBING BACK TO MAIN IN THIS LOCATION.
  - MD13 CAP HOT WATER PIPING IN THIS LOCATION.
  - MD20 EXISTING UNIT VENTILATOR TO REMAIN IN THIS LOCATION. REMOVE EXISTING HOT WATER PIPING AND ALL ASSOCIATED ACCESSORIES SERVING THIS UNIT.

**KEY PLAN:**



No.	Revisions / Submissions	Date
11	BID AND PERMIT SET	2022-01-26

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**CITY OF KETTERING**  
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**INTERIOR RENOVATION**  
**PHASE 2**

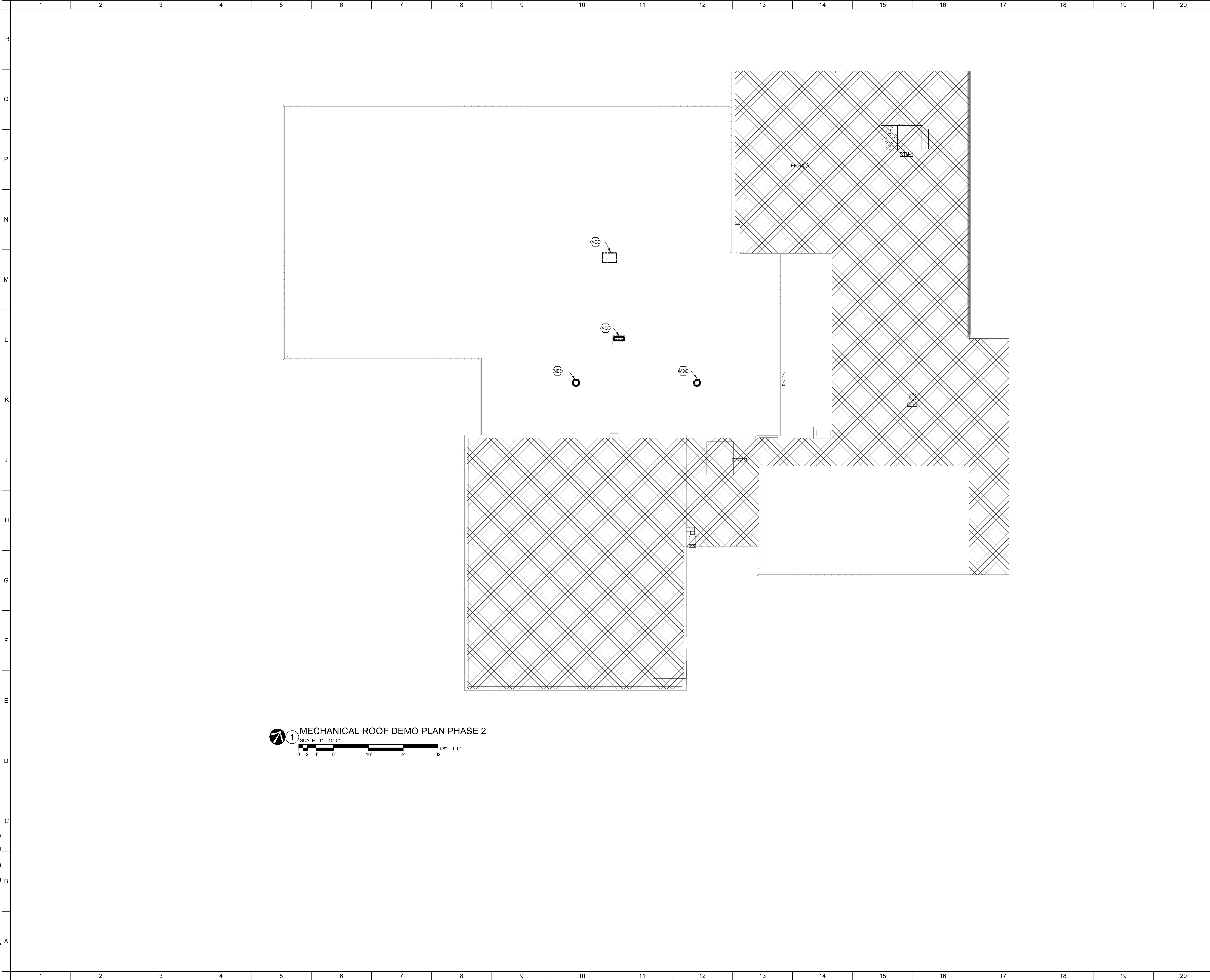
2655 OLSON DRIVE  
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**MECHANICAL DEMOLITION PLAN - PHASE 2**

	Comm. No.	Date
	20605.00	2022.01.26
	Drawn	CRH
Checked	BKR	<b>2.MD101</b>



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**1** MECHANICAL ROOF DEMO PLAN PHASE 2  
 SCALE: 1" = 10'-0"  
 1/8" = 1'-0"

○ SHEET NOTES:

**TAGGED NOTES**

- MDR REMOVE EXISTING EXHAUST FAN IN THIS LOCATION. EXISTING DUCTWORK AND PENETRATION TO BE REUSED FOR FUTURE USE.
- MDR REMOVE EXISTING CONDENSING UNIT ON ROOF IN THIS LOCATION. PATCH REFRIGERANT ROOF PENETRATIONS AIR AND WATER TIGHT.

KEY PLAN:

No.	Revisions / Submissions	Date
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CITY OF KETTERING  
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**INTERIOR RENOVATION  
 PHASE 2**

2655 OLSON DRIVE  
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**MECHANICAL ROOF DEMO PLAN - PHASE 2**

	Comm. No.	Date
	20605.00	2022.01.26
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INTERNALLY LINED DUCT. REFER TO SPEC SECTION 202200 PART 6.4 FOR MORE INFO.

GENERAL NOTE:  
1. ALL EXISTING DUCTS ARE TO BE CLEAR COATED UNLESS OTHERWISE NOTED.

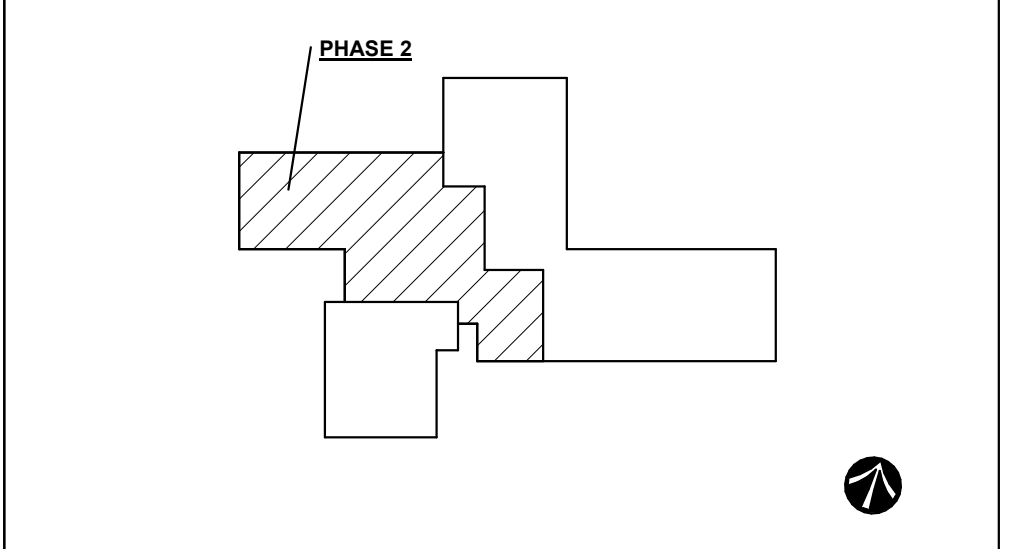
SHEET NOTES:

- TAGGED NOTES**
- M11 PROVIDE RUSKIN MODEL CD35 CONTROL DAMPER OR EQUAL IN THIS LOCATION. SEE DUCT AND BYPASS DESIGN DETAIL ON SHEET M200 FOR MORE DETAILS.
  - M12 SPRAY BOOTH 10" EXHAUST DUCT UP THROUGH ROOF. PROVIDE GOOSENECK WITH BIRD SCREEN IN THIS LOCATION.
  - M16 SHADED DUCTWORK TO BE INTERNALLY LINED.
  - M17 EXISTING DUCT UP TO NEW EF-1 LOCATED ON THE ROOF.
  - M18 EXISTING DUCT UP TO NEW EF-2 LOCATED ON THE ROOF.
  - M23 UP TO EF-12 LOCATED ON THE ROOF.
  - M25 DUCT TO BE SIZED DOWN TO 10" IN THIS LOCATION TO FIT THROUGH JOIST SPACE.
  - M27 DUCTWORK TO BE INSTALLED AS SHOWN TO BE USED IN FUTURE WORK.
  - M28 CAP DUCTWORK IN THIS LOCATION.
  - M30 EXISTING BOILER TO REMAIN.
  - M31 ROUTE CONDENSATE AS SHOWN TO MOP SINK.
  - M35 PROVIDE NEW HOT WATER PIPING IN THIS LOCATION AND CONNECT INTO EXISTING SYSTEM AS SHOWN.
  - M46 PROVIDE DUCT STATIC PRESSURE SENSOR IN THIS LOCATION.
  - M53 CONTRACTOR TO INSTALL OWNER PURCHASED BAILEY FILTRATION UNITS PER MANUFACTURERS REQUIREMENTS IN THIS LOCATION AT 94" AFF. UNIT TO BE PROVIDED WITH 24-HOUR TIME CLOCK CONTROL.
  - M54 PROVIDE IAP MODEL FA-9405-H HANGING FUME ARM OR EQUAL. EACH ARM SHALL BE 4" DIAMETER RATED FOR 150 CFM EACH. COORDINATE EXACT LOCATION OF FUME ARMS AND EXHAUST FAN WITH OWNER.
  - M55 PROVIDE EXHAUST DUCT FOR DRYER IN THIS LOCATION. PENETRATE DUCT THROUGH ROOF AND PROVIDE ROOF VENT.
  - M56 PROVIDE 1-HR TIME CLOCK SWITCH TO CONTROL ASSOCIATED EXHAUST FAN IN THIS LOCATION. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER.
  - M57 PROVIDE VENT SURE DOWNDRAFT VENT KIT WITH VENT CONTROL (M-3-CNTL00) OPTION. REFER TO TYPICAL KILN EXHAUST DETAIL ON SHEET 2.M200 FOR FURTHER DETAILS.

**RGD RUNOUT SCHEDULE**

MARK	DUCT INLET SIZE
R-4	NA
RD-1	6"
RD-2	8"
RD-3	10"
RD-4	10"
RD-5	14"
SD-1	6"
SD-2	8"
SD-3	10"
SD-4	10"x10"

KEY PLAN:



No.	Revisions / Submissions	Date
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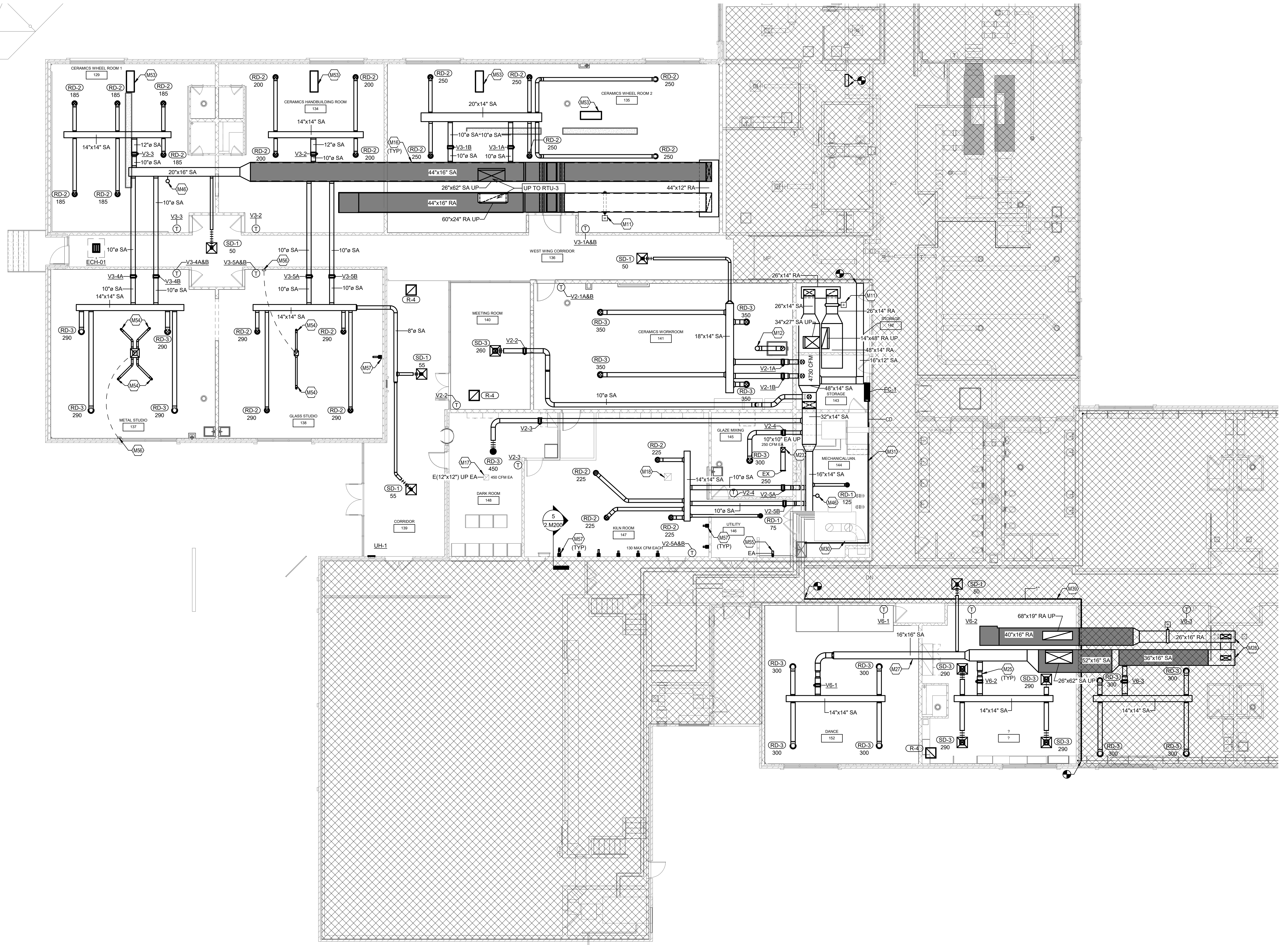
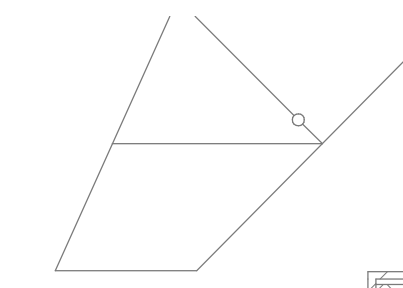
**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
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**MECHANICAL PLAN - PHASE 2**

Comm. No.	Date
20605.00	2022.01.26
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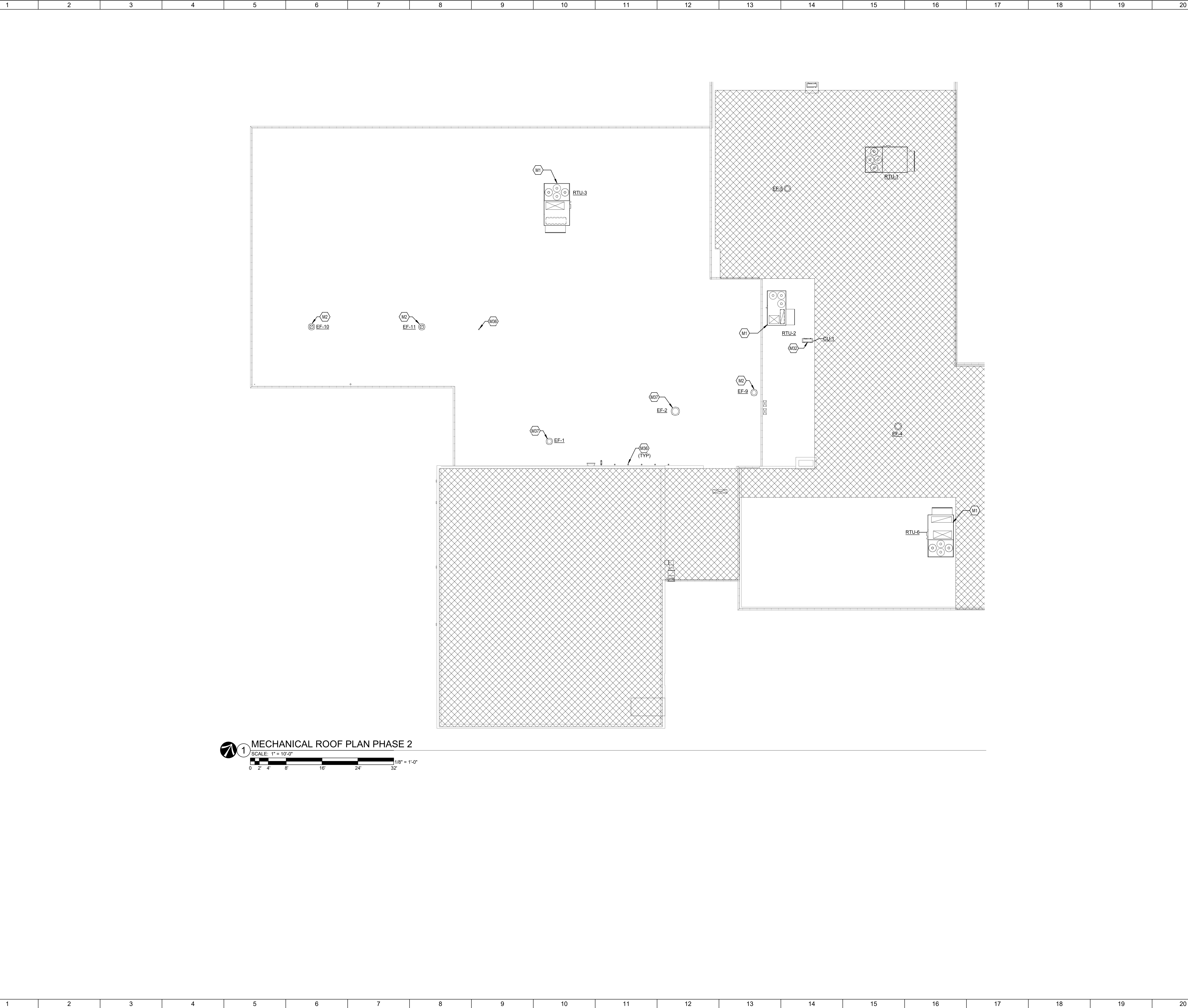
**1** 2 - MECHANICAL PLAN - PHASE 2  
SCALE: 1/8" = 1'-0"

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**MECHANICAL ROOF PLAN PHASE 2**  
 SCALE: 1" = 10'-0"  
 1/8" = 1'-0"

SHEET NOTES:

**TAGGED NOTES**  
 M36 GOOSENECK WITH BIRDSCREEN FOR KILN VENT IN THIS LOCATION.

KEY PLAN:

No.	Revisions / Submissions	Date
11	BID AND PERMIT SET	2022-01-26



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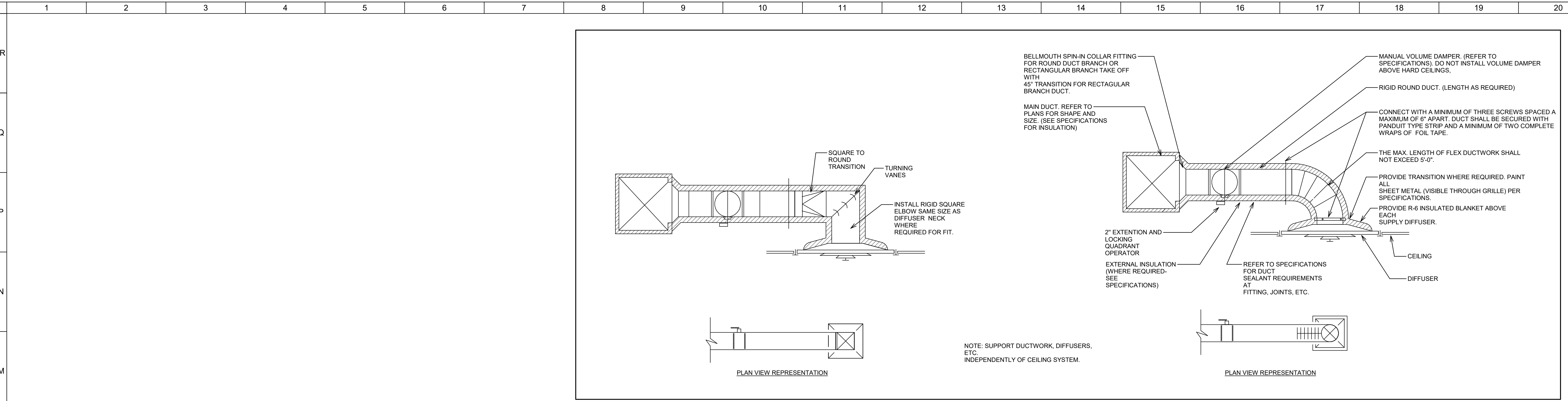
**INTERIOR RENOVATION  
 PHASE 2**

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 KETTERING, OH 45420

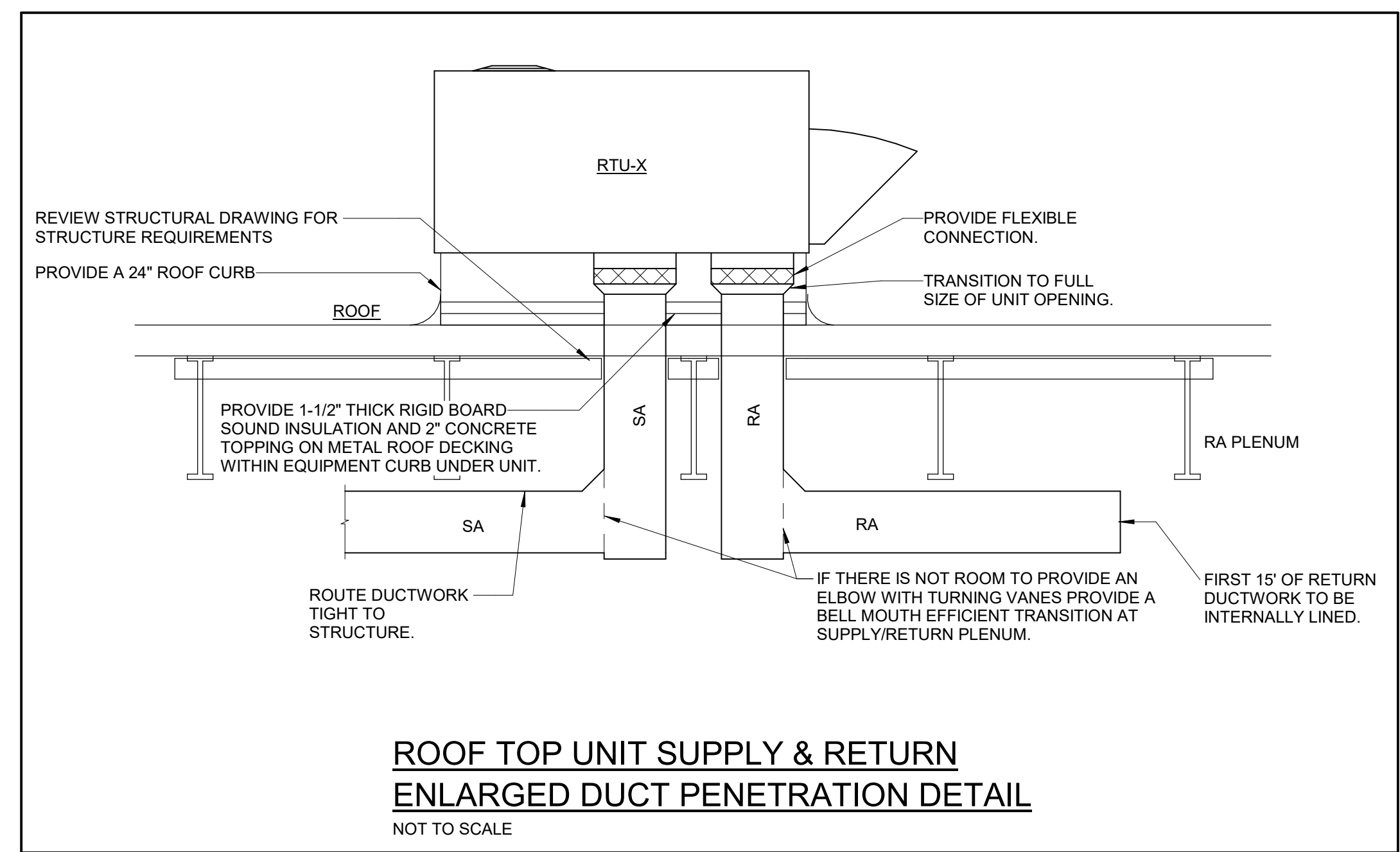
**MECHANICAL ROOF PLAN - PHASE 2**

	Comm. No.	Date
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Checked	BKR	<b>2.M102</b>

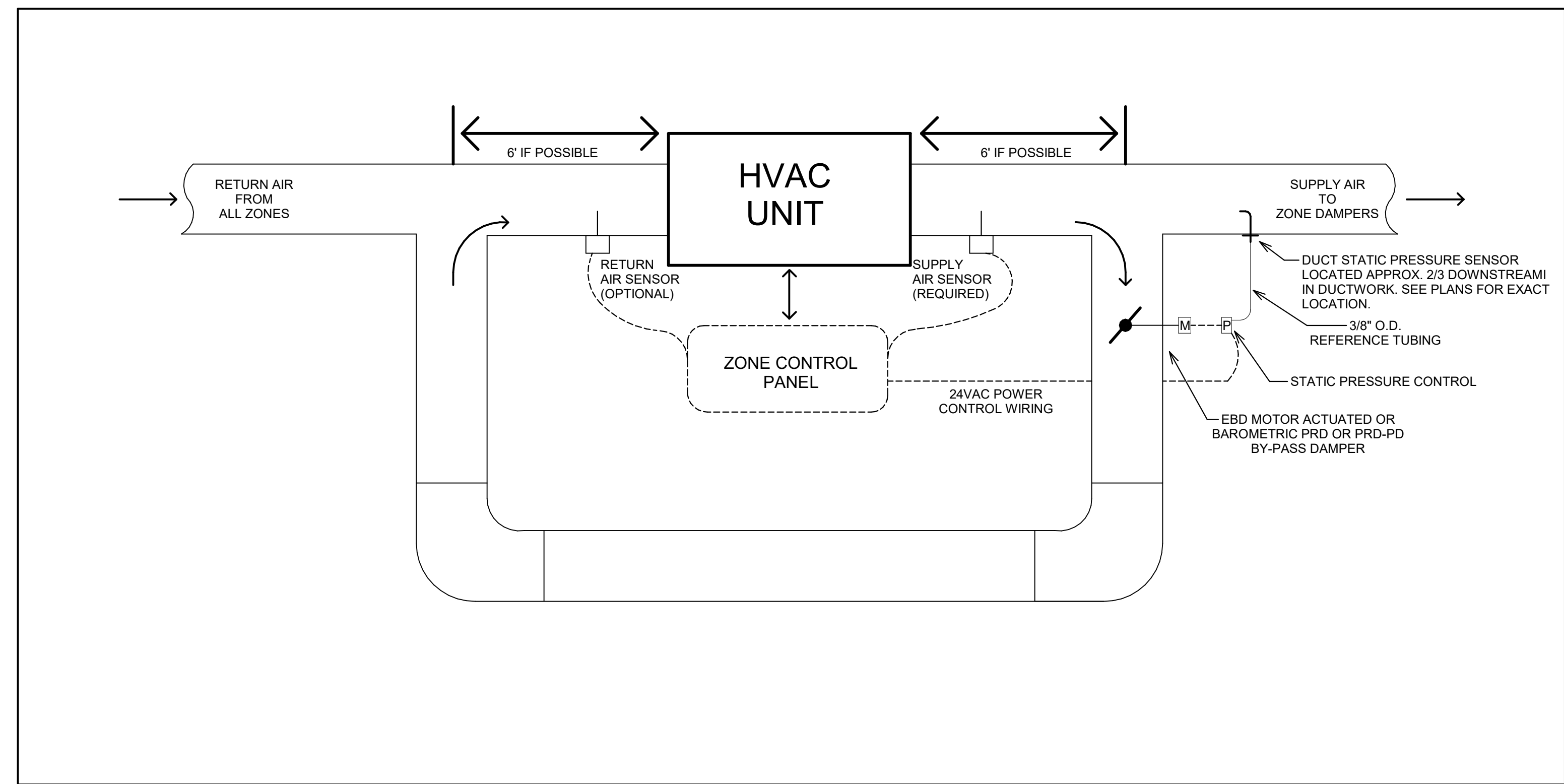
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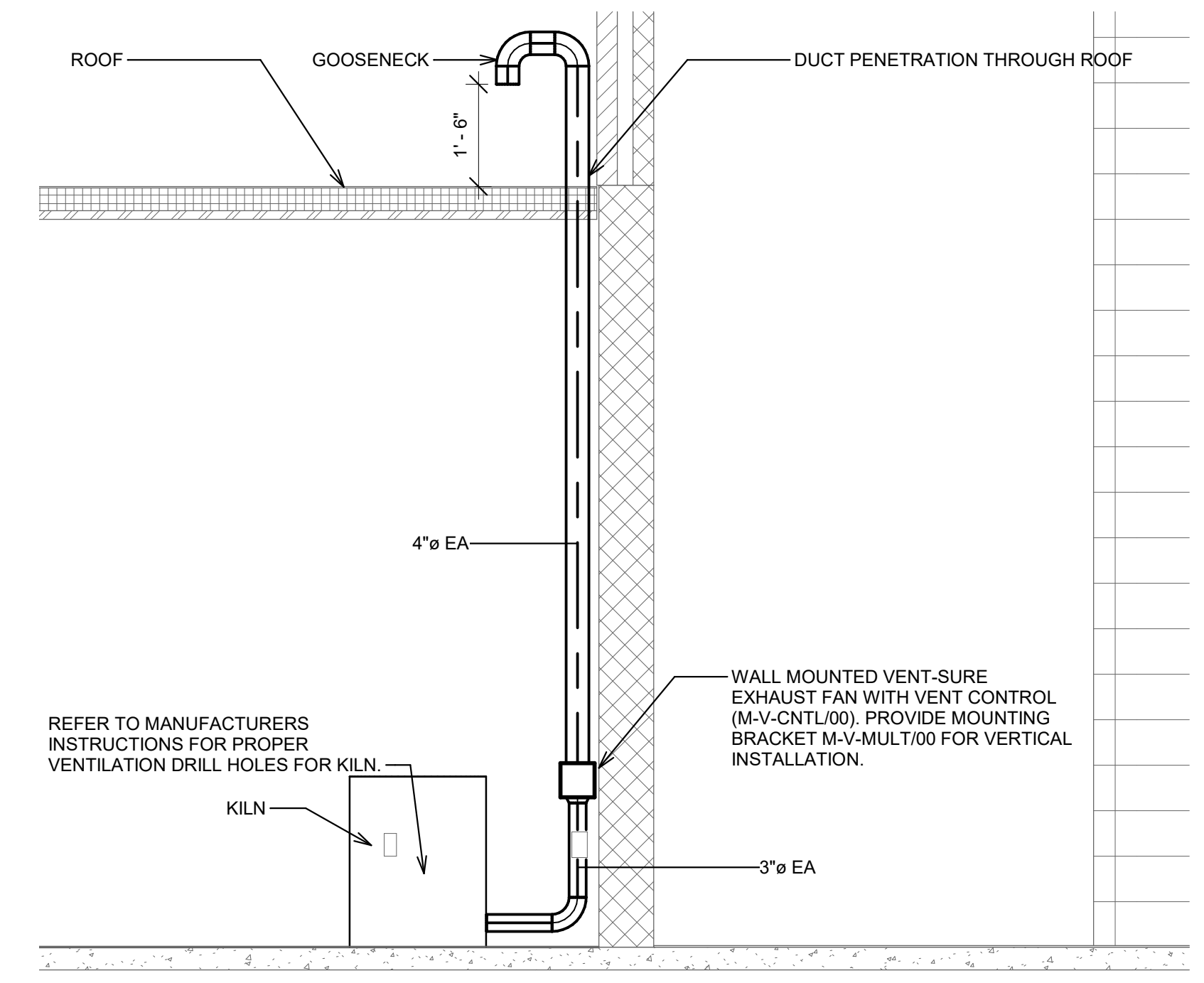
**2** TYPICAL BRANCH DUCT  
DETAIL (SUPPLY, RETURN, AND  
EXHAUST)  
SCALE: N.T.S.



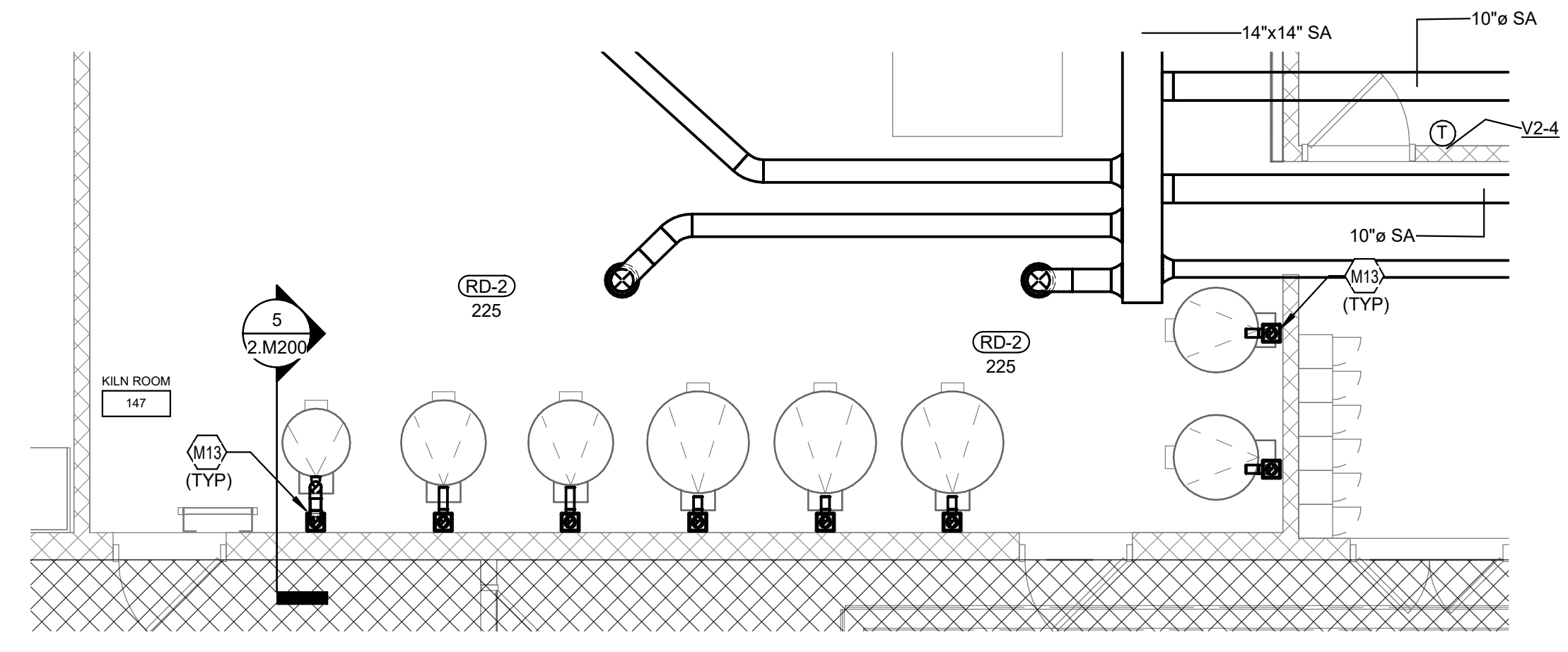
**3** PACKAGED ROOFTOP UNIT  
DETAIL PHASE 2  
SCALE: N.T.S.



**1** DUCT AND BYPASS DESIGN  
DETAIL  
SCALE: N.T.S.



**5** TYPICAL KILN EXHAUST  
DETAIL PHASE 2  
SCALE: N.T.S.



**4** ENLARGED MECHANICAL PLAN -  
KILN ROOM SOUTH WALL PHASE 2  
SCALE: N.T.S.

SHEET NOTES:

KEY PLAN:

No.	Revisions / Submissions	Date
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CITY OF KETTERING  
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INTERIOR RENOVATION  
PHASE 2

2655 OLSON DRIVE  
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MECHANICAL DETAILS - PHASE 2

	Comm. No.	Date
	20605.00	2022.01.26
	Drawn	Drawing No.
CRH	2.M200	
Checked	BKR	





<b>RESULTS</b>		
Vot	Minimum outdoor air intake, Vou/Ev, cfm	814
Pz	Percent outdoor air intake, Vo/Vps	27%
Ev	System ventilation efficiency	0.80

ZONE LEVEL	Zones served by system	140	141	142/143	106/107/108	109/110	112	116	146	147	145
		Classroom m	Art m	Storage m	Office m	Break Room m	Corridor m	Storage rooms	Storage rooms	Storage rooms	Storage rooms
Az	Floor area of zone, ft2	274	1161	330	312	391	369	272	440	902	248
Pz	Zone population, largest # of people expected to occupy zone	10	17	0	3	1	10	0	0	15	1
Rp	People outdoor air rate from Table 6.1, cfm/person	5	10	5	5	5	5	0	5	5	5
Ra	Area outdoor air rate from Table 6.1, cfm/ft2	0.06	0.18	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Pz/Rp	Area outdoor air rate from Table 6.1, cfm/ft2	0.5	170	0	15	5	50	0	75	5	5
Az/Ra	Area outdoor air rate from Table 6.1, cfm/ft2	22.44	209.0628	19.7796	18.6942	23.451	22.1652	16.32	26.3742	54.1116	14.8902
Voz	Outdoor airflow to the zone corrected for zone air distribution effectiveness, (Pz/Rp + Az/Ra)/Ez, cfm	90.55	473.8285	24.7245	42.11775	35.56375	90.2065	20.4	32.96775	161.3895	24.86275
Vpz	Primary airflow to zone from air handler (intake plus recirculated air, but not local recirculation such as at mixing boxes), cfm. In VAV systems, use the design supply/discharge to zone including primary air Vpz and locally recirculated air, cfm. In VAV systems, use the design value.	260	1400	100	180	170	260	100	450	900	300
Vdz	Supply/discharge to zone including primary air Vpz and locally recirculated air, cfm. In VAV systems, use the design value.	260	1400	100	180	170	260	100	450	900	300
Vdzm	Minimum supply/discharge to zone used to calculate Ev, cfm. In CAV systems, Vdzm = Vdz. In VAV systems, Vdzm is the minimum expected value of Vdz.	220	1150	60	105	85	215	50	80	390	60
Zd	Outdoor air fraction required in air discharged to zone, = Voz/Vdzm	0.41	0.41	0.41	0.40	0.42	0.42	0.41	0.41	0.41	0.41
Ep	Primary air fraction to zone, = Vpz/Vdz (=1 for single duct and single zone systems)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Er	Fraction of secondary recirc to zone representative of system average, only applies if Ep<1. For plenum return =0. For duct return with local secondary recirc =1.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ez	Zone air distribution effectiveness, Table 6.2	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Fa	Fraction of supply air to zone from sources outside zone, = Ep + (1-Ep)*Er	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fb	Fraction of supply air to zone from full mixed primary air, = Ep + Vpz/Vdz	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fc	Fraction of outdoor air to zone from sources outside zone, = 1 - (1-Ez) * (1-Er) * (1-Ep)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ps	System population, maximum simultaneous # of occupants of space served by system	57									
D	Occupant diversity, ratio of system peak occupancy to sum of space peak occupancies, = Pa/ΣPz	1.00									
Vou	Uncorrected outdoor air intake, = D*ΣRp/Pz + ΣRa/Az	648									
Vps	Total system primary flow to all zones, Σ Vpz, cfm	3020									
Xs	Mixing ratio at primary air handler of uncorrected outdoor air intake to system primary flow, = Vou/Vps	0.22									
Evs	Zone ventilation efficiency, (Fa + Xs*Fb + Z*Fc)/Fa	0.80	0.80	0.80	0.81	0.80	0.80	0.81	0.80	0.80	0.80
Ev	System ventilation efficiency, min(Evs)	0.80									
Vot	Minimum outdoor air intake, Vou/Ev, cfm	814									

<b>RESULTS</b>		
Vot	Minimum outdoor air intake, Vou/Ev, cfm	2119
Pz	Percent outdoor air intake, Vo/Vps	34%
Ev	System ventilation efficiency	0.80

ZONE LEVEL	Zones served by system	129	134	135	137	138	139
		Classroom m	Classroom m	Classroom m	Classroom m	Classroom m	Corridors
Az	Floor area of zone, ft2	523	929	1996	989	986	689
Pz	Zone population, largest # of people expected to occupy zone	10	10	20	10	10	0
Rp	People outdoor air rate from Table 6.1, cfm/person	10	10	10	10	10	0
Ra	Area outdoor air rate from Table 6.1, cfm/ft2	0.18	0.18	0.18	0.18	0.18	0.06
Pz/Rp	Area outdoor air rate from Table 6.1, cfm/ft2	100	100	200	100	100	0
Az/Ra	Area outdoor air rate from Table 6.1, cfm/ft2	166.172	167.2686	359.3646	177.9714	177.9564	41.3118
Voz	Outdoor airflow to the zone corrected for zone air distribution effectiveness, (Pz/Rp + Az/Ra)/Ez, cfm	332.716	334.0858	699.2058	347.4643	346.7443	51.63975
Vpz	Primary airflow to zone from air handler (intake plus recirculated air, but not local recirculation such as at mixing boxes), cfm. In VAV systems, use the design supply/discharge to zone including primary air Vpz and locally recirculated air, cfm. In VAV systems, use the design value.	1100	800	1500	1160	1160	110
Vdz	Supply/discharge to zone including primary air Vpz and locally recirculated air, cfm. In VAV systems, use the design value.	1100	800	1500	1160	1160	110
Vdzm	Minimum supply/discharge to zone used to calculate Ev, cfm. In CAV systems, Vdzm = Vdz. In VAV systems, Vdzm is the minimum expected value of Vdz.	710	710	1485	740	740	110
Zd	Outdoor air fraction required in air discharged to zone, = Voz/Vdzm	0.47	0.47	0.47	0.47	0.47	0.47
Ep	Primary air fraction to zone, = Vpz/Vdz (=1 for single duct and single zone systems)	1.00	1.00	1.00	1.00	1.00	1.00
Er	Fraction of secondary recirc to zone representative of system average, only applies if Ep<1. For plenum return =0. For duct return with local secondary recirc =1.	0.00	0.00	0.00	0.00	0.00	0.00
Ez	Zone air distribution effectiveness, Table 6.2	0.80	0.80	0.80	0.80	0.80	0.80
Fa	Fraction of supply air to zone from sources outside zone, = Ep + (1-Ep)*Er	1.00	1.00	1.00	1.00	1.00	1.00
Fb	Fraction of supply air to zone from full mixed primary air, = Ep + Vpz/Vdz	1.00	1.00	1.00	1.00	1.00	1.00
Fc	Fraction of outdoor air to zone from sources outside zone, = 1 - (1-Ez) * (1-Er) * (1-Ep)	1.00	1.00	1.00	1.00	1.00	1.00
Ps	System population, maximum simultaneous # of occupants of space served by system	60					
D	Occupant diversity, ratio of system peak occupancy to sum of space peak occupancies, = Pa/ΣPz	1.00					
Vou	Uncorrected outdoor air intake, = D*ΣRp/Pz + ΣRa/Az	1680					
Vps	Total system primary flow to all zones, Σ Vpz, cfm	6300					
Xs	Mixing ratio at primary air handler of uncorrected outdoor air intake to system primary flow, = Vou/Vps	0.27					
Evs	Zone ventilation efficiency, (Fa + Xs*Fb + Z*Fc)/Fa	0.80	0.80	0.80	0.80	0.80	0.80
Ev	System ventilation efficiency, min(Evs)	0.80					
Vot	Minimum outdoor air intake, Vou/Ev, cfm	2119					

PACKAGED ROOFTOP UNIT-RTU-1

- VVT OVERVIEW: Variable Volume & Temperature (VVT) is a zoning system that utilizes both cooling and heating from one central air source. The VVT System makes the decision to enter a system mode (heat or cool) based on the number of heating and cooling callers. The Zone Controller modulates individual zone dampers to maintain space temperature setpoint. A new System Touch Interface will be provided for monitoring and setpoint & time schedule adjustments. All setpoints shown in this sequence of operation may be adjusted through the System Touch Interface.
- OCCUPIED / UNOCCUPIED OPERATION: Unit shall be scheduled for occupied/unoccupied 7-day and holiday operation. An unoccupied override pushbutton (on wall-mounted temperature sensor) will force that individual zone to occupied mode for 2 hours (adjustable). Occupied setpoints are preset at 74 °F for cooling and 70 °F for heating, adjustable for up to + / - 3 °F from a space temperature sensor slider setpoint adjustment. Unoccupied setpoints are preset at 80 °F for cooling and 60 °F for heating. During the occupied mode, the fan is operational. During the unoccupied mode the unit fan shall cycle based on a call for unoccupied cooling or heating.
- SYSTEM MODE DETERMINATION: This system mode (heat or cool) is chosen by calculating the average heat and cool demands between all zones (difference between setpoint & actual space temperature). NOTE: Each zone may be designated a priority level, which will allow for a "weighted" average demand for larger or more critical zones. When the average cooling demand rises to 0.7 °F above setpoint, the unit shall enter cooling mode. When the average heating demand falls to 0.7 °F below setpoint, the unit shall enter heating mode. If both average heating and cooling demands are above 0.7 °F, the highest demand will determine the mode. Once a mode is selected, it will remain in that mode until either the average zone demand reaches setpoint or the opposite mode demand is higher (after a minimum 30 minute run time).
- HVAC UNIT CONTROL: Once a system mode is determined, the VVT System will communicate with the unit controller to enable heating or cooling. The controller will utilize PID logic to stage heating or cooling based on average demand. The unit will always maintain a minimum supply temperature of 50 °F during cooling mode and a maximum supply temperature of 140 °F during heating mode. Heating and/or cooling may be locked out based on outdoor temperature lockout setpoints if desired.
- OCCUPIED MODE COOLING: Economizer mode shall be determined by comparing return & outdoor enthalpy sensors. When outdoor temp is not suitable (outdoor enthalpy > return enthalpy), economizer damper shall be at minimum ventilation position and mechanical cooling will be staged to maintain occupied space temperature cooling setpoint. When outdoor temp is suitable, return air shall be exhausted and unit shall bring in additional outdoor air. If economizer reaches 100% open and space temperature setpoint cannot be met, damper will remain open and mechanical cooling will be staged to maintain occupied space temperature heating setpoint.
- OCCUPIED MODE HEATING: Gas heat shall be enabled to maintain occupied space temperature heating setpoint.
- DEHUMIDIFICATION CONTROL: Dehumidification cycle will be enabled whenever space humidity rises above 60% (adjustable)
- OUTDOOR VENTILATION DAMPER CONTROL: 2-Position Outdoor Damper will be open during Occupied Mode and will remain closed during Unoccupied Mode.
- ZONE DAMPER CONTROL: Each zone will have a minimum damper position for ventilation purposes. When a zone's temperature rises above its cooling setpoint and the overall system mode is cooling, the zone damper shall modulate to maintain cooling setpoint. If the zone's temperature is below its heating setpoint and the overall system mode is heating, the zone damper shall modulate to maintain heating setpoint. When no system mode is present and the supply air temperature is acceptable (65-75 °F), the zone damper will open beyond the minimum position to the ventilation position to provide additional ventilation to the space.
- UNOCCUPIED MODE: During unoccupied mode, the fan will cycle on based on a call for unoccupied cooling or heating and remain off when satisfied. Unit will operate off of the unoccupied cooling & heating setpoints of 80 °F and 60 °F for all zones. System will run until space temperature lowers (cooling mode) or raises (heating mode) by 4 °F. Economizer damper will remain fully closed during unoccupied mode.

BACNET OBJECTS TO THE BAS	RTU POINTS LIST				TREND	ALARM
	ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT		
POINTS LIST						
OCCUPIED / UNOCCUPIED			X	X		STATUS DOES NOT MATCH COMMAND
UNIT STATUS			X			X
MORNING WARM-UP STATUS			X			X
COOLING STATUS / CAPACITY	X		X			X
ECONOMIZER STATUS			X			ALARM
SUPPLY FAN STATUS / SPEED	X					
ECONOMIZER STATUS	X					
DISCHARGE AIR TEMPERATURE	X	X				X HIGH TEMP LOW TEMP
DISCHARGE AIR TEMPERATURE SETPOINT	X	X				
RETURN AIR TEMPERATURE	X					
OUTDOOR AIR TEMP	X					
SUPPLY AIR CFM	X					AIRFLOW MEASURING STATION
SUPPLY AIR CFM SETPOINT	X	X				
OUTSIDE AIR CFM	X					AIRFLOW MEASURING STATION
OUTSIDE AIR CFM SETPOINT	X	X				
ENTERING FAN / LEAVING COIL TEMP	X					
MIXED AIR TEMPERATURE	X					
DIRTY FILTER			X			

EXHAUST FANS (EF-1, EF-2, EF-9, EF-10, EF-11)

- The TCC shall provide exhaust fan control. EF-1 AND EF-9 to operate when the building is occupied.
- EF-2 to be controlled by a switch as shown on electrical drawings.
- EF-10 and EF-11 shall be controlled via a switch on the wall. Location is shown on plans.

POINTS LIST	ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT	TREND	ALARM
	OCCUPIED/UNOCCUPIED				X	X

SPLIT SYSTEMS

- The TCC shall provide all interlock wiring and install factory thermostat. The split systems shall operate on factory controls.
- Alarms shall be provided if zone temperature reaches 80°F (adj).

POINTS LIST	ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT	TREND	ALARM
	ZONE TEMP	X				X

SHEET NOTES:

KEY PLAN:

No.	Revisions / Submissions	Date
11	BID AND PERMIT SET	2022-01-26



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1650 Lake Shore Drive Suite 380  
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**LWC**  
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434 East First Street Dayton, OH 45402 937.223.6500

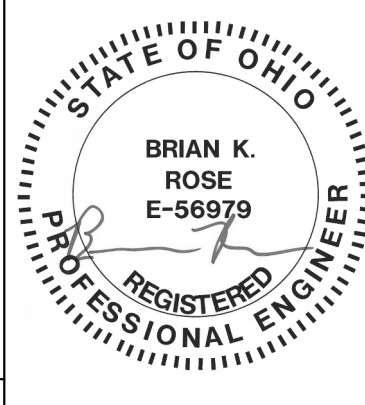
CITY OF KETTERING ROSEWOOD ARTS CENTER

INTERIOR RENOVATION PHASE 2

2655 OLSON DRIVE KETTERING, OH 45420

CONTROLS AND VENTILATION CALCULATIONS - PHASE 2

Comm. No.	Date
20605.00	2022.01.26
Drawn	Drawing No.
CRH	2.M400
Checked	BKR





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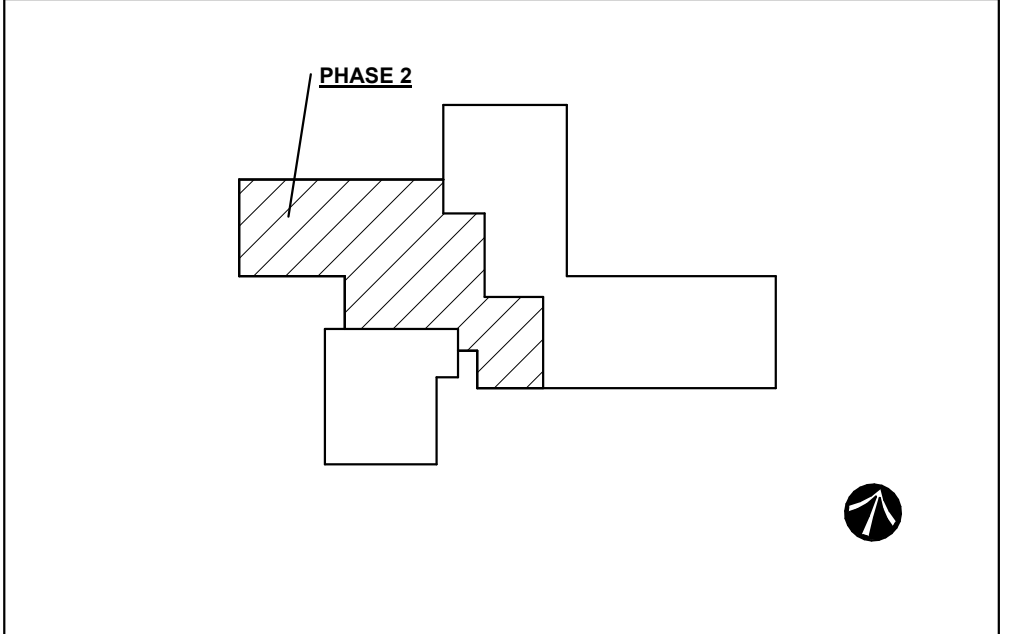
DESCRIPTION	ABBREVIATIONS	DATA / VOICE	SYSTEM RESPONSIBILITY MATRIX																																																
<b>LIGHTING</b> REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC. SURFACE, SUSPENDED OR STRIP CEILING FIXTURE RECESSED CEILING FIXTURE EMERGENCY BATTERY WALL-PACK EXIT LIGHT (CEILING, END, WALL MOUNT) PARALLEL-HATCHING INDICATES LIGHT IS BACKED UP VIA BATTERY	<b>UNLESS OTHERWISE NOTED</b> OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED CONTRACTOR FURNISHED CONTRACTOR INSTALLED CONTRACTOR FURNISHED OWNER INSTALLED	<b>DATA OUTLET</b> - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS  WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (1) DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS.	<b>SYSTEM RESPONSIBILITY MATRIX</b> <table border="1"> <tr><th>SYSTEM</th><th>ITEM USED ON PROJECT</th><th>CONTRACTOR</th><th>OWNER</th><th>UTILITY</th><th>OTHER</th></tr> <tr><td>FIRE ALARM</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>SECURITY: PANIC ALARM</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>SECURITY: ACCESS CONTROL</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>SECURITY: CCTV</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>DATA PROCESSING</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>SECURITY INTRUSION DETECTION</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> <tr><td>TELEVISION</td><td></td><td>●</td><td>●</td><td>●</td><td>●</td></tr> </table>	SYSTEM	ITEM USED ON PROJECT	CONTRACTOR	OWNER	UTILITY	OTHER	FIRE ALARM		●	●	●	●	SECURITY: PANIC ALARM		●	●	●	●	SECURITY: ACCESS CONTROL		●	●	●	●	SECURITY: CCTV		●	●	●	●	DATA PROCESSING		●	●	●	●	SECURITY INTRUSION DETECTION		●	●	●	●	TELEVISION		●	●	●	●
SYSTEM	ITEM USED ON PROJECT	CONTRACTOR	OWNER	UTILITY	OTHER																																														
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TELEVISION		●	●	●	●																																														
<b>LIGHTING CONTROL SWITCHES</b> LIGHT SWITCH: LOW VOLTAGE 46" \$ LOW VOLTAGE DIMMER SWITCH 46" \$D OCCUPANCY OR VACANCY SENSOR SWITCH 46" \$OS, \$VS KEYED SWITCH 46" \$K OCCUPANCY SENSOR, CEILING MOUNT CLG LINE VOLTAGE THREE-WAY SWITCH 46" \$S LINE VOLTAGE FOUR-WAY SWITCH 46" \$4	<b>SPECIAL OUTLETS</b> FLOORBOX, COMBINATION POWER AND LOW VOLTAGE, REFER TO FLOORBOX SCHEDULE FLOOR COMBINATION POWER AND DATA OUTLET LOCATION, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION 1'-6" COMBINATION QUADRIPLUX POWER AND DATA OUTLET LOCATION, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION 1'-6"	<b>FIRE ALARM</b> MAIN FIRE ALARM CONTROL PANEL CENTRAL PROCESSING UNIT (CPU) - VOICE COMPATIBLE 6'-6" TO TOP [FACP] PULL STATION : DOUBLE ACTION 46" TO LEVER [F] AUDIO/VISUAL NOTIFICATION APPLIANCE CLG [VA] PHOTO-ELECTRIC SMOKE DETECTOR CLG [SD] DUCT SMOKE DETECTOR ABV CLG [DD] CARBON MONOXIDE DETECTOR AND ALARM: SINGLE STATION W/SLINDER BASE CLG [CM]	<b>SYSTEM RESPONSIBILITY GENERAL NOTES:</b> A. REFER TO VENDOR DRAWINGS FOR COMPLETE SCOPE OF WORK RELATING TO VENDOR-FURNISHED EQUIPMENT. ALL WORK INDICATED ON VENDOR DRAWINGS SHALL BE INCLUDED BY THE CONTRACTOR. B. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS. C. PROVIDE BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC. AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH SUCCESSFUL VENDORS FOR ALL SYSTEMS PRIOR TO CONSTRUCTION. D. AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS. TERMINATE CONDUITS AT CABINET/S BACKBOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION. E. REFER TO SPECIFICATIONS FOR REQUIREMENTS APPLICABLE TO ALL SYSTEMS INCLUDING CABLING, CABLE MANAGEMENT, INSTALLATION, GROUNDING, TESTING, LABELING, ETC. F. WHERE INDICATED AS SPEC, THE CONTRACTOR SHALL PROVIDE THE SYSTEM COMPLETE, INCLUDING ALL ROUGH-INS, CABLING, DEVICES, POWER, ETC. THE CONTRACTOR SHALL CONTACT THE LISTED VENDOR FOR PRICING PRIOR TO BID. ALL SYSTEMS SHALL MATCH EXISTING FACILITY STANDARDS AND BE FULLY COMPATIBLE WITH ANY EXISTING SYSTEMS. ALL SYSTEM VENDORS SHALL COORDINATE EXACT SYSTEM REQUIREMENTS WITH OWNER PRIOR TO BID. NEW COMPONENTS SHALL BE INTERCONNECTED WITH EXISTING SYSTEMS WHERE POSSIBLE. ALL NEW SYSTEM DESIGNS AND PROGRAMMING SHALL BE COORDINATED WITH THE OWNER PRIOR TO ORDERING. ALL PROGRAMMING SHALL BE INCLUDED AS REQUIRED BY THE OWNER. PROVIDE 4 HOURS OF TRAINING FOR EACH SYSTEM.																																																
<b>MISCELLANEOUS</b> CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROWS INDICATES HOME RUN & # OF CIRCUITS; HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR. DISCONNECT SWITCH 5'-0" PANELBOARD, SURFACE OR FLUSH MOUNTED 6'-6" TO TOP EQUIP-1 EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE TAGGED NOTE REVISION TAG MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE WEATHER-PROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC. AS SUITABLE FOR OUTDOORS SCHOOL BELL ONLY EXISTING	<b>TELEVISION</b> TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE DEVICE MOUNTING HEIGHT WITH BRACKET AND OWNER IN FIELD PRIOR TO ROUGH-IN WALL  <b>OVERHEAD PAGING</b> PAGING SPEAKER: CEILING CLG  <b>LOCKS</b> ANALOG CLOCK 84"  <b>SECURITY</b> INTRUSION DETECTION SYSTEM - MOTION DETECTOR CEILING [MD] INTRUSION DETECTION SYSTEM - OUTPUT ALARM CEILING [SA] KEYPAD FOR DOOR 48" DOOR ALARM DOOR FRAME [DA] ROUGH IN FOR CCTV CAMERA. REFER TO DETAIL H SHEET E02.	<b>PANEL FURNITURE</b> COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE. PROVIDE 3/4" C. FOR POWER AND 1" C. FOR DATA STUBBED TO ABOVE ACCESSIBLE CEILING TO A J HOOK OPEN WIRE SYSTEM. PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE. PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR 1'-6" [FF]																																																	
<b>POWER OUTLETS</b> COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE. PROVIDE 3/4" C. FOR POWER AND 1" C. FOR DATA STUBBED TO ABOVE ACCESSIBLE CEILING TO A J HOOK OPEN WIRE SYSTEM. PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE. PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR 1'-6" FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI) 1'-6" JUNCTION BOX, WALL MOUNTED EXISTING GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS 2'-2" 208V/1PH RECEPTACLE, AS NOTED 1'-6" 208V/3PH RECEPTACLE, AS NOTED 1'-6" BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD 1'-6" CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB DOWN CONDUIT. PROVIDE 4" SQUARE 2-GANG BOX WITH A 1-GANG COVERPLATE. SEE DETAIL ON SHEET 2.E002 1'-6"																																																			

**ELECTRICAL GENERAL NOTES:**

- A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS, VERIFY SAME WITH SHOP DRAWINGS.
- B. ALL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
- C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72 (NFPA), AND ALL OTHER APPLICABLE CODES.
- D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES. WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT JURISDICTION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- F. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
- G. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- H. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
- I. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- J. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- K. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS FOR CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO.
- L. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
- M. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
- N. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- O. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SEPARATELY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.
- P. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER UNLESS OTHERWISE SPECIFIED.
- Q. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.
- R. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.
- S. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).
- T. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
- U. CEILING MOUNTED ELECTRICAL DEVICES SHALL BE INSTALLED IN 2'x4' TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'x4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.
- V. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISE OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- W. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
- X. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT.
- Y. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH OR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- Z. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. PRIOR TO UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
- AA. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
- BB. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UNLISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
- CC. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- DD. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS' LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROPRIATE LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.
- EE. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
- FF. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
- GG. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- HH. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADES IN WRITING.
- II. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
- JJ. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT ENGINEER FOR DIRECTION PRIOR TO ROUGH IN.
- KK. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
- LL. AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE.
- MM. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.
- NN. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
- OO. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
- PP. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
- QQ. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- RR. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
- SS. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- TT. NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN UNOCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
- UU. ALL ITEMS HAVING KEYPAD/OPERATORS SHALL HAVE CORED LOOKS/OPERATORS. ALL KEYPAD SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
- VV. REFER TO ARCHITECTURAL PLANS FOR PHASING REQUIREMENTS. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

SHEET #	SHEET NAME
2.E001	ELECTRICAL LEGEND
2.E002	ELECTRICAL DETAILS AND SCHEDULES
2.E003	ELECTRICAL DETAILS AND SCHEDULES
2.E010	ELECTRICAL DEMOLITION PLAN
2.E011	LIGHTING PLAN
2.E021	POWER PLANS
2.E031	ELECTRICAL ROOF PLAN
2.E400	ELECTRICAL SINGLE LINE DIAGRAM AND PANEL SCHEDULES

**KEY PLAN:**



No.	Revisions / Submissions	Date
11	BID AND PERMIT SET	2022-01-26

**CMTA**  
1650 Lake Shore Drive Suite 380  
Columbus, OH 43202  
T: 614.992.1500

**LWC**  
INCORPORATED  
434 East First Street Dayton, OH 45402 937.223.6500

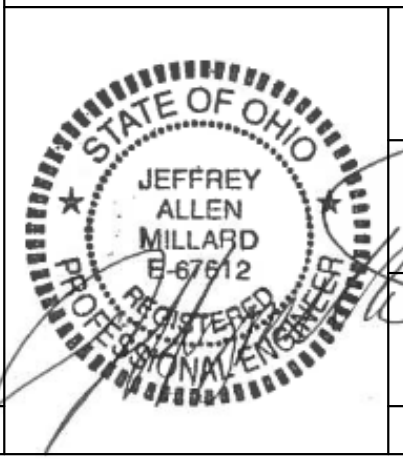
**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
PHASE 2**

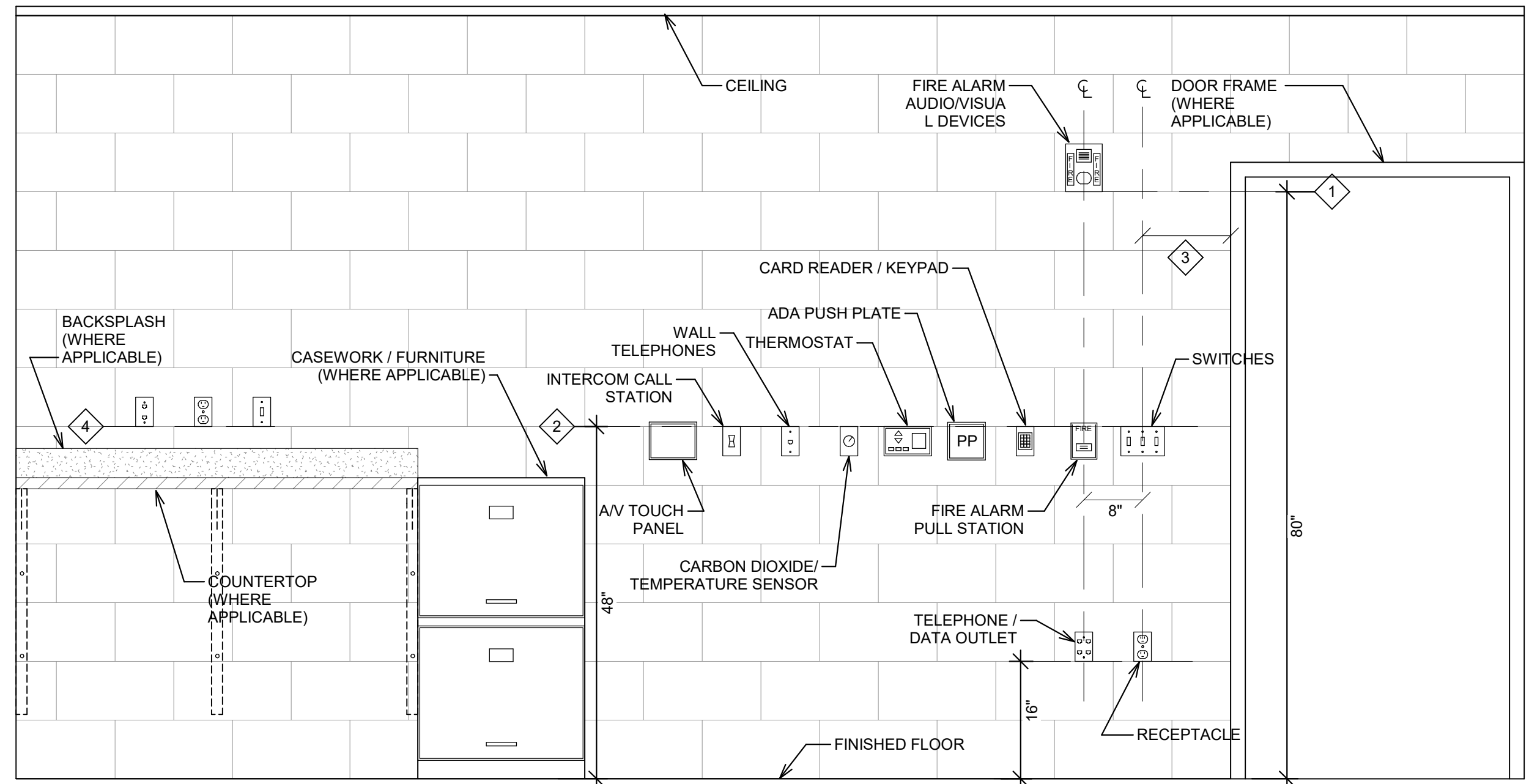
2655 OLSON DRIVE  
KETTERING, OH 45420

**ELECTRICAL LEGEND**

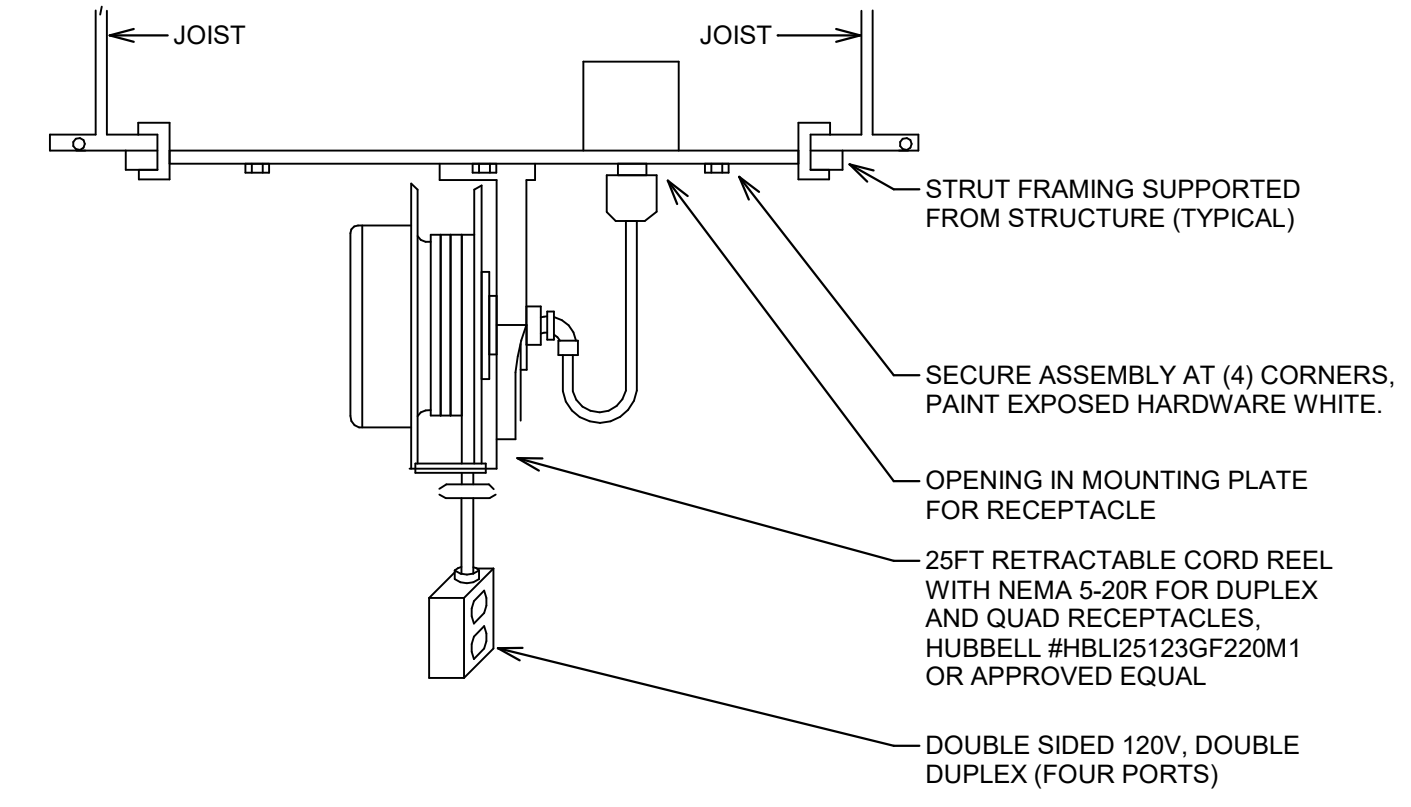
Comm. No.	Date
20605.00	2022.01.26
Drawn	Drawing No.
NK	2.E001
Checked	JAE



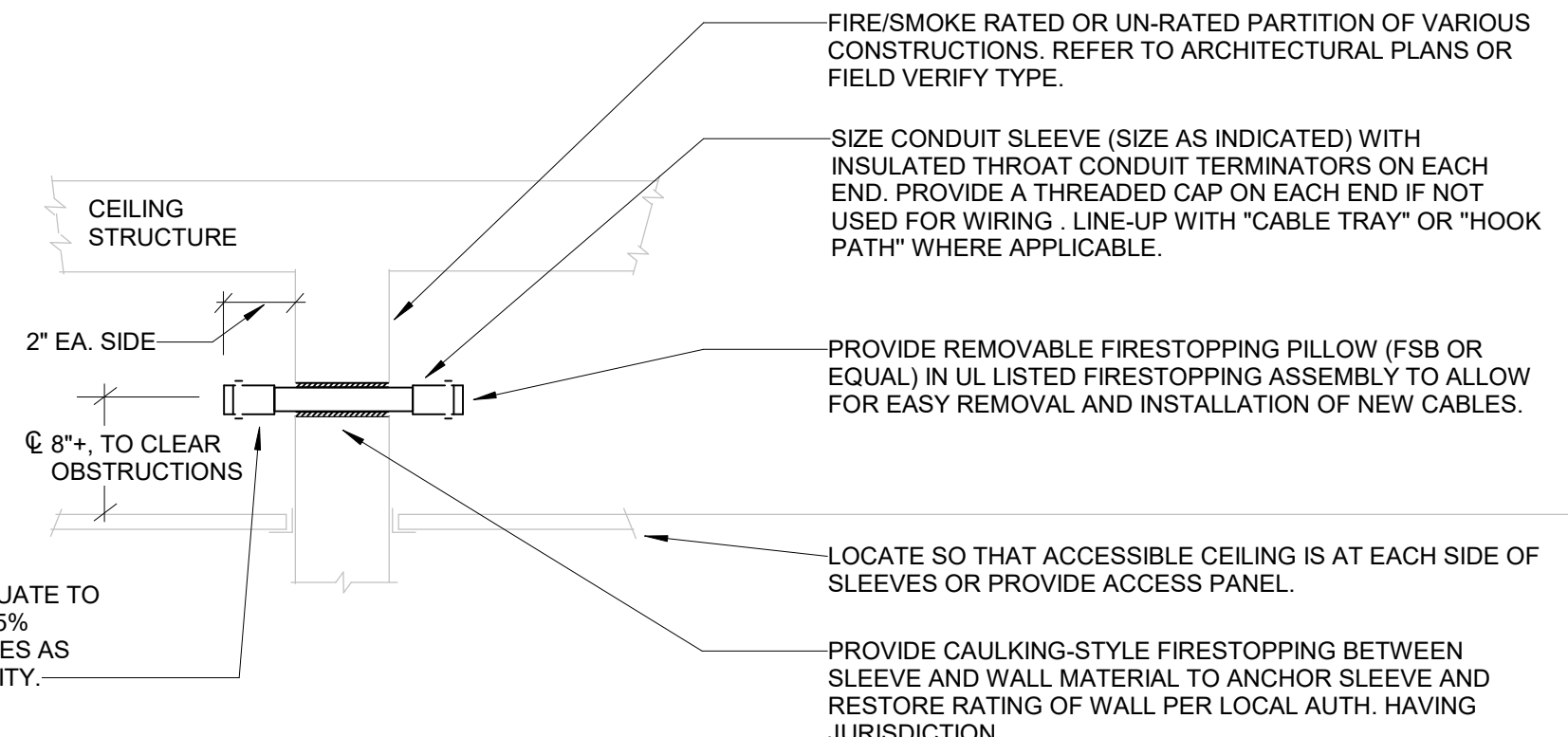
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- DEVICE MOUNTING DETAIL - GENERAL NOTES:**
- WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT. ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).
  - WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).
  - FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.
- DEVICE MOUNTING DETAIL - KEY NOTES:**
- MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
  - ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
  - MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
  - THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.



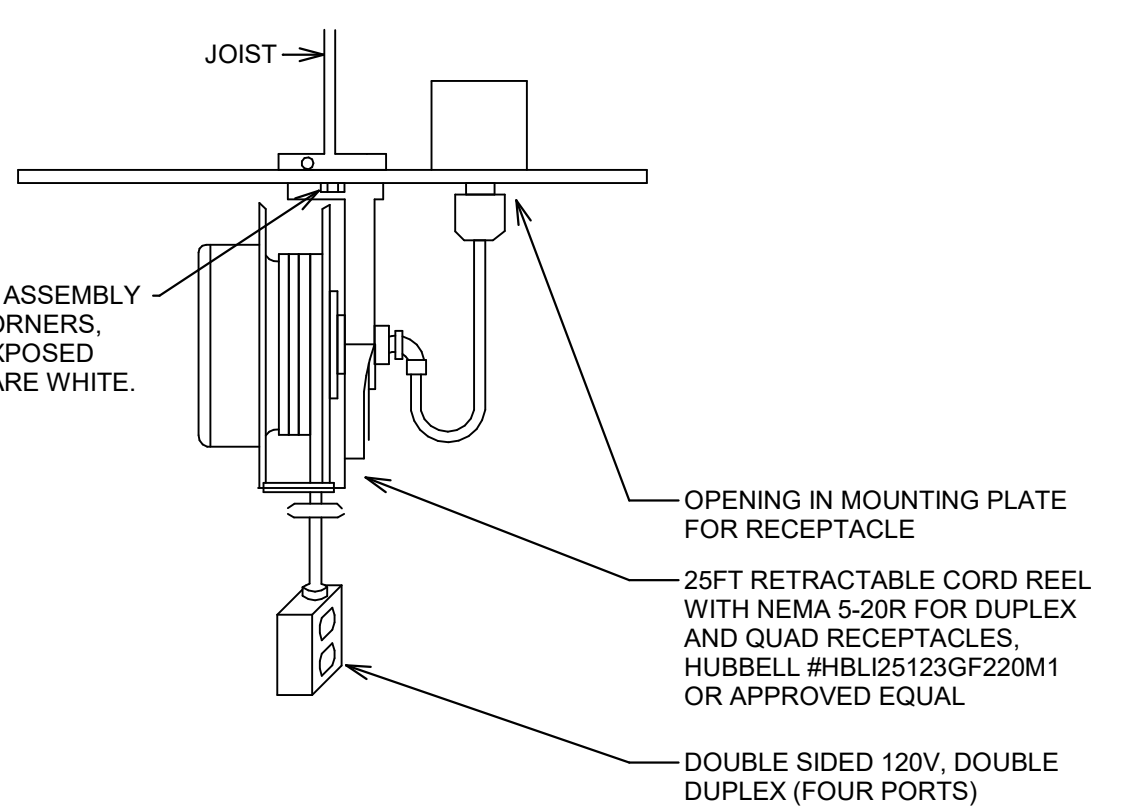
**CORD REEL DETAIL - MOUNTED BETWEEN JOISTS**  
SCALE: NONE



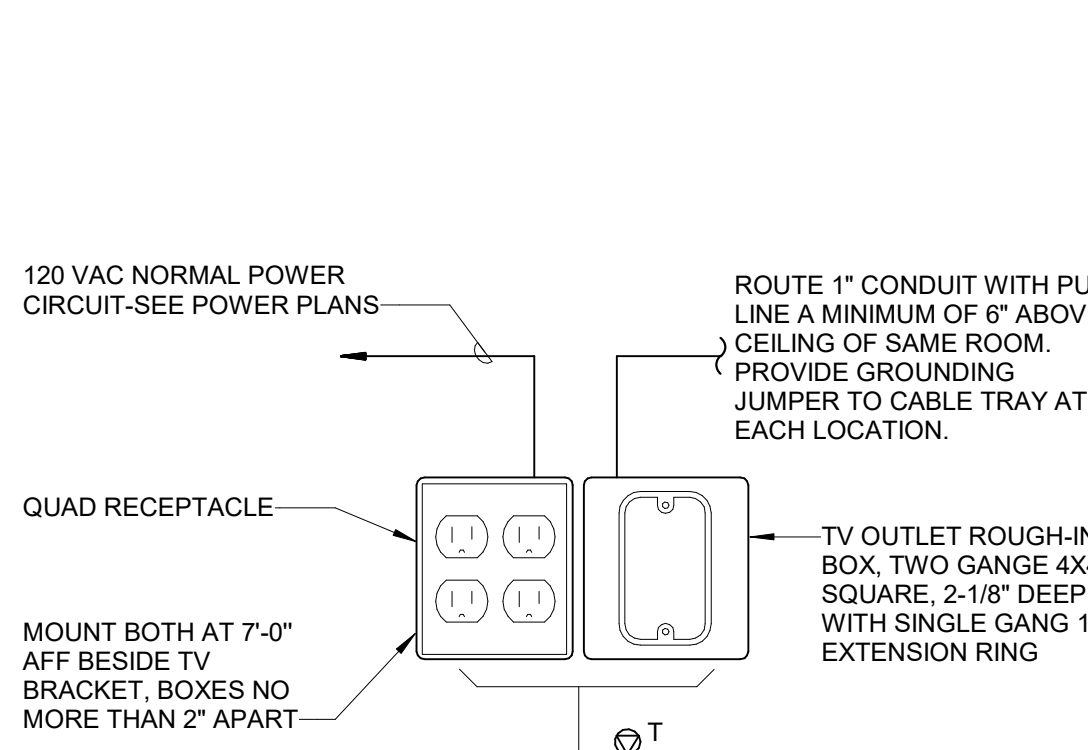
- GENERAL NOTES:**
- PROVIDE ONE 2" SPARE CONDUIT SLEEVE THROUGH ALL FULL HEIGHT PARTITIONS FOR FUTURE USE. LABEL AS SPARE FOR OWNER'S USE ONLY. REFER TO ARCHITECTURAL PLANS FOR FULL HEIGHT PARTITION LOCATIONS.
  - USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.
- NOTE:** IF THE SLEEVE SIZE AND NUMBER INDICATED ON PLANS WILL NOT BE ADEQUATE TO CONTAIN ALL CABLES AND STILL LEAVE 25% SPARE CAPACITY, PROVIDE ADD'L SLEEVES AS NEEDED TO PROVIDE THIS SPARE CAPACITY.

**CONDUIT WALL SLEEVE INSTALLATION**  
SCALE: NONE

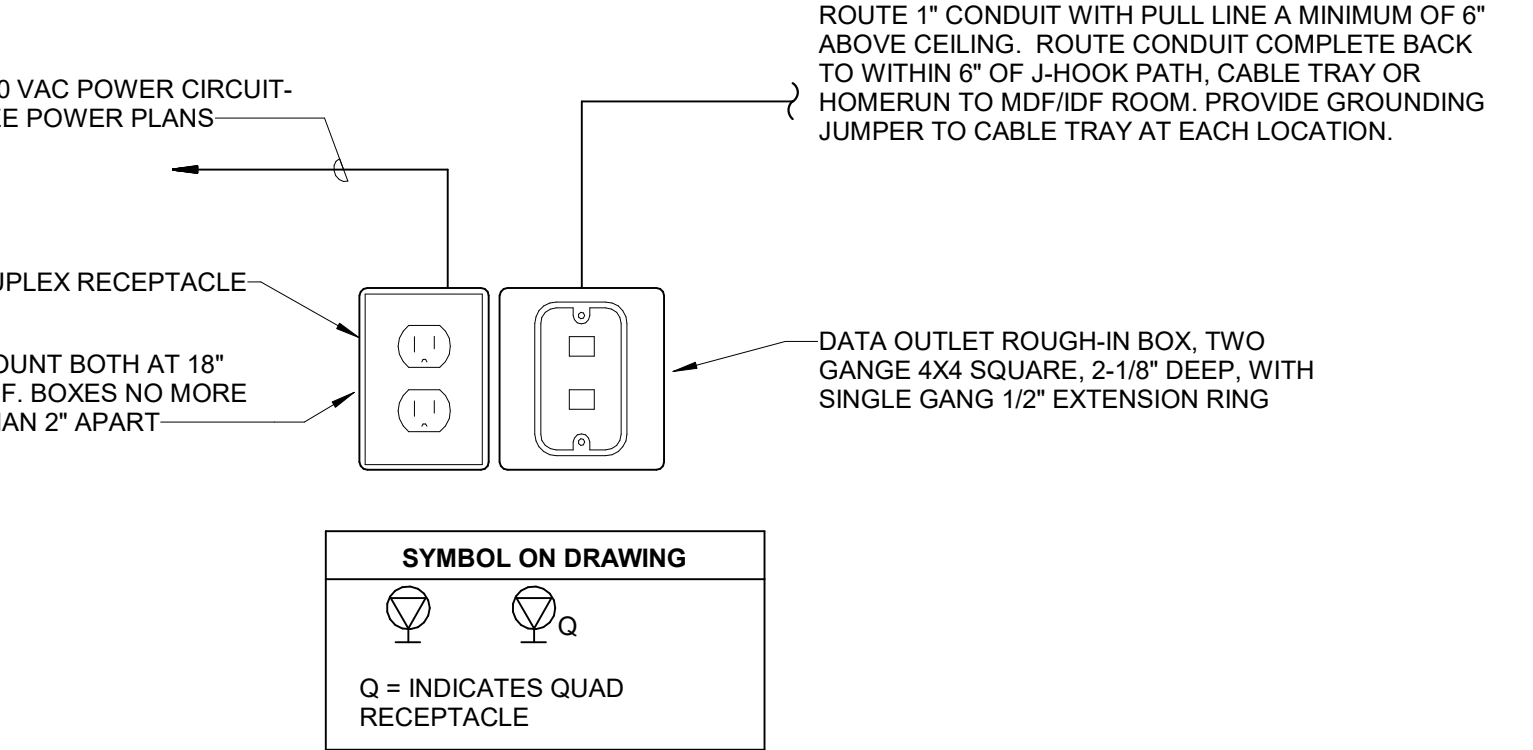
**TYPICAL WALL DEVICE MOUNTING DETAIL**  
SCALE: NONE



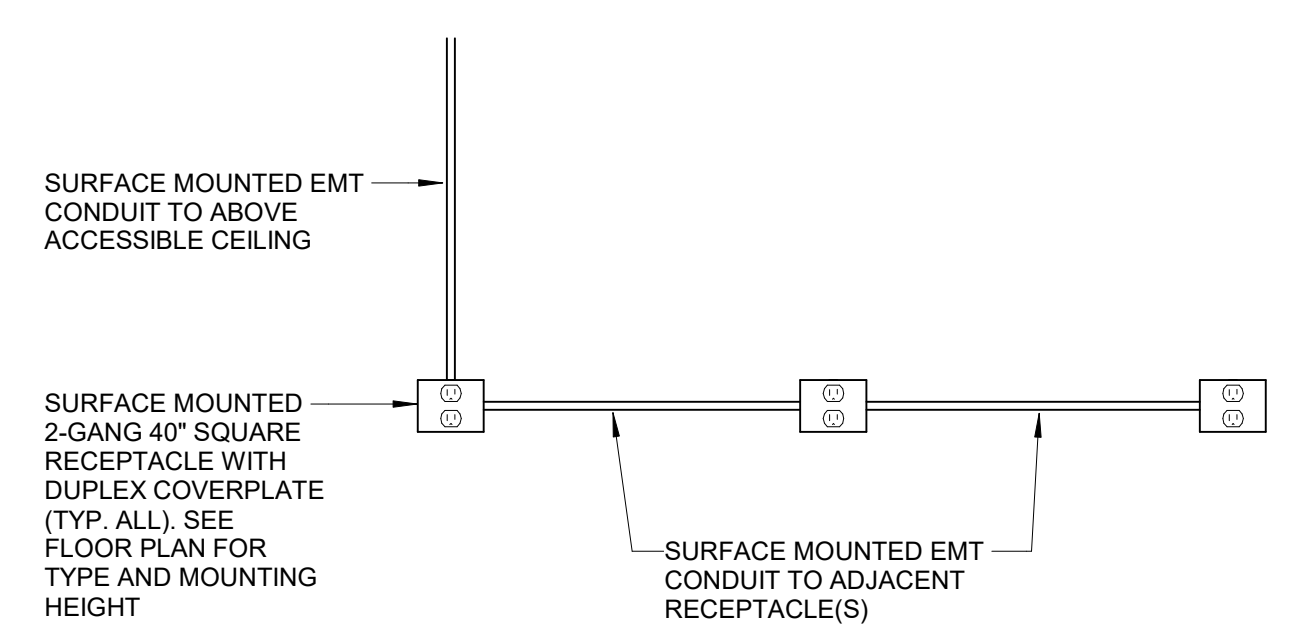
**CORD REEL DETAIL - MOUNTED ON JOIST**  
SCALE: NONE



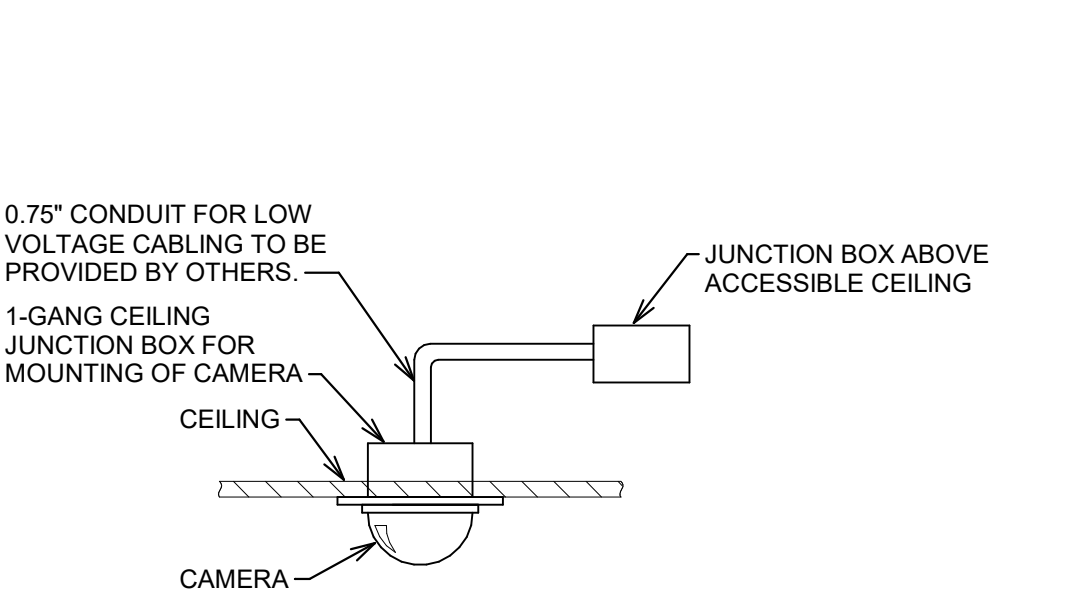
**TELEVISION OUTLET INSTALLATION DETAIL**  
SCALE: NONE



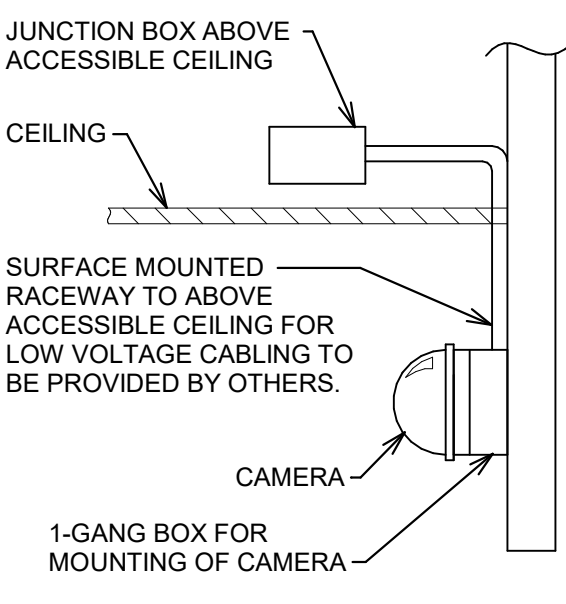
**POWER/DATA OUTLET BOX DETAIL**  
SCALE: NONE



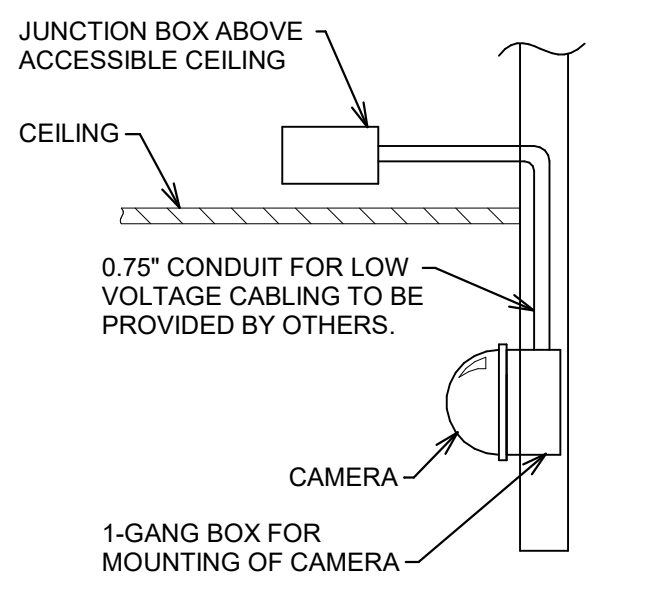
**STUB DOWN RECEPTACLES DETAIL**  
SCALE: NONE



**INTERIOR CEILING RECESSED CAMERA MOUNTING DETAILS**  
SCALE: NONE



**INTERIOR WALL SURFACE**



**INTERIOR WALL RECESSED**

**MULTISERVICE FLOORBOX SCHEDULE**

TAG	POWER REQUIREMENTS	DATA REQUIREMENTS	PART NUMBER
FB-A	(4) 5-20	(4) CAT6 MIN. AS INDICATED UP TO 80	LEGRAND RP5FB-03 LEGRAND RP4CTCBK

11 BID AND PERMIT SET		2022-01-26
No.	Revisions / Submissions	Date
<p><b>CMTA</b> 1650 Lake Shore Drive Suite 380 Columbus, OH 43202 T: 614.992.1500</p>		
<p><b>LWC</b> INCORPORATED 434 East First Street Dayton, OH 45402 937.223.6500</p>		
<p><b>CITY OF KETTERING ROSEWOOD ARTS CENTER</b></p> <p><b>INTERIOR RENOVATION PHASE 2</b></p> <p>2655 OLSON DRIVE KETTERING, OH 45420</p>		
<b>ELECTRICAL DETAILS AND SCHEDULES</b>		
Comm. No.	Date	2022.01.26
Drawn	Checked	2.E002
JEFFREY ALLEN BILL AYD # 67912	NK JAE	
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LUMINAIRE SCHEDULE - PHASE 2

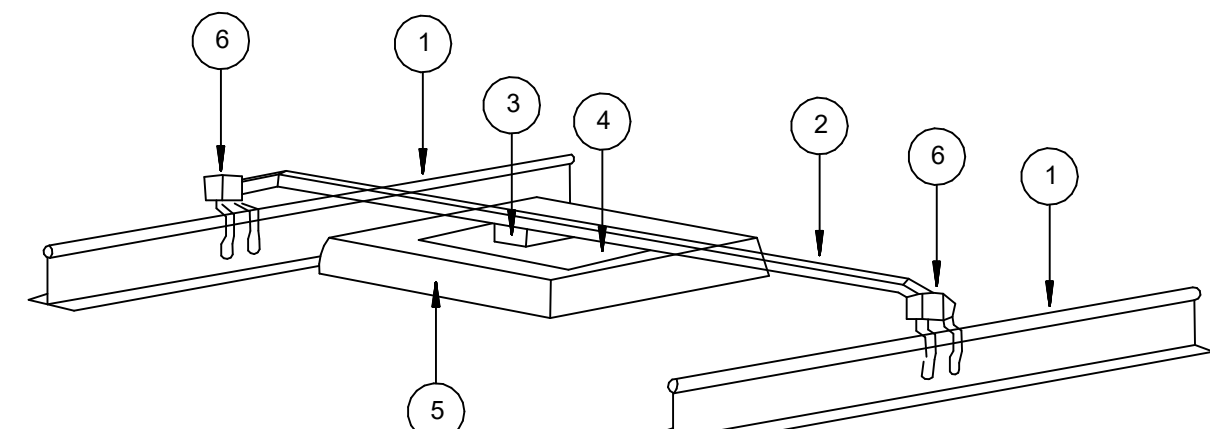
TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS	
B2	8' LONG LINEAR RECESSED	FINELITE #HP-X-R-D-8-H-840-F-120-SC-FC-10%-C2	LITECONTROL, MARK ARCHITECTURAL LIGHTING	RECESSED	LED / 4000K	8,025 LUMENS	64	120		
DL1	6" ROUND CIRCULAR DOWNLIGHT	LITHONIA #LDN6-40-10-LO6-AR-LSS-MVOLT-GZ10	ALPHABET, PRESCOLITE	RECESSED	LED / 4000K	1,000 LUMENS	10	120		
DL2	6" ROUND CIRCULAR DOWNLIGHT	LITHONIA #LDN6-40-20-LO6-AR-LSS-MVOLT-GZ10	ALPHABET, PRESCOLITE	RECESSED	LED / 4000K	2,000 LUMENS	23	120		
DL3	6" ROUND CIRCULAR DOWNLIGHT	LITHONIA #LDN6-40-15-LO6-AR-LSS-MVOLT-GZ10	ALPHABET, PRESCOLITE	RECESSED	LED / 4000K	1,500 LUMENS	18	120		
EM1	EMERGENCY WALL PACK	DUAL LITE #EV4-I-02WAL	CHLORIDE, SURE-LITES	SURFACE ON WALL AT 8'-0" AFF	LED	500 LUMENS	4	120	PROVIDE SURFACE MOUNTED RACEWAY FOR ALL BLOCK WALL MOUNTING APPLICATIONS.	
G	12"x12" SQUARE CANOPY CEILING LIGHT	ELUMINAIRE #PCS1-DP-45-40K-WH	ILP, TRACELITE	SURFACE ON CANOPY CEILING	LED / 4000K	4,500 LUMENS	36	120	FIXTURE FINISH TO BE SELECTED BY ARCHITECT.	
M1	4' LONG STRIP FIXTURE	#CLX-L48-5000LM-SEF-FDL-WD-MVOLT-GZ10-40K-80CRI-WH-ZACVH	LITHONIA	HUBBELL, LUMAX	SUSPENDED AT 8'-0" AFF / SURFACE ON JOISTS	LED / 4000K	5,000 LUMENS	35	120	
M2	8' LONG STRIP FIXTURE	LITHONIA #CLX-L96-6000LM-SEF-FDL-WD-MVOLT-GZ10-40K-80CRI-WH	LITHONIA	HUBBELL, LUMAX	SURFACE ON CEILING	LED / 4000K	6,000 LUMENS	38	120	
M5	2' LONG STRIP FIXTURE	#CLX-L24-2000LM-SEF-FDL-WD-MVOLT-GZ10-40K-80CRI-WH-ZACVH	LITHONIA	HUBBELL, LUMAX	SUSPENDED AT 8'-0" AFF	LED / 4000K	2,000 LUMENS	15	120	
S1	20' LONG LINEAR INDIRECT / DIRECT	LITECONTROL #SAE-104-P-LPA-20'-8-SOF-C1-40K-080-8D-D05-1C-UNV-FA2-L1	LITECONTROL	CORELITE, LEDALITE	SUSPENDED AT 9'-0" AFF	LED / 4000K	145	120	ORDER WITH SUSPENSION KIT AS NECESSARY.	
S2	28' LONG LINEAR INDIRECT / DIRECT	LITECONTROL #SAE-104-P-LPA-28'-8-SOF-C1-40K-080-8D-D05-1C-UNV-FA2-L1	LITECONTROL	CORELITE, LEDALITE	SUSPENDED AT 9'-0" AFF	LED / 4000K	203	120	ORDER WITH SUSPENSION KIT AS NECESSARY.	
S3	24' LONG LINEAR INDIRECT / DIRECT	LITECONTROL #SAE-104-P-LPA-24'-8-SOF-C1-40K-080-8D-D05-1C-UNV-FA2-L1	LITECONTROL	CORELITE, LEDALITE	SUSPENDED AT 9'-0" AFF	LED / 4000K	174	120	ORDER WITH SUSPENSION KIT AS NECESSARY.	
V2	2'x2' VOLUMETRIC RECTANGULAR TROFFER	COLUMBIA #LCAT22-40-MW-G-ED-U	DAYBRITE, METALUX	RECESSED	LED / 4000K	2,100 LUMENS	17	120		
X1	THERMOPLASTIC EXIT SIGN	DUAL-LITE #VE-U-R-W-AC-I	CHLORIDE, SURE-LITES	SURFACE ON CEILING / SURFACE ON WALL WITH BOTTOM 6" ABOVE DOOR	LED	-	1	120		
X2	EXIT SIGN WITH INTEGRAL EMERGENCY WALLPACK	DUAL-LITE #EVC-U-R-W-I	CHLORIDE, SURE-LITES	SURFACE ON CEILING / SURFACE ON WALL WITH BOTTOM 6" ABOVE DOOR	LED	-	2	120		

LIGHTING SEQUENCE OF OPERATIONS - PHASE 2

LC ID	OCCUPANCY SENSOR				TIME CLOCK				WALL SWITCH				DAYLIGHT SENSOR			
	VACANCY MODE	OCCUPANCY MODE	SENSOR TIME OUT PERIOD	HIGH/LOW OPERATION	SCHEDULED ON	SCHEDULED OFF	AFTER HOURS OVERRIDE SWITCH	ON/OFF ONLY	DIMMER SWITCH	KEY SWITCH	SCENE SWITCH	GRAPHICAL WALL STATION	INDOOR - ON/OFF ONLY	INDOOR - DIMMING	LIGHT LEVEL MAINTAINED AT	EXTERIOR PHOTOCELL ON/OFF
1					8:00AM	7:00PM										
2		X							X	X						
3		X	20 MIN													
4	X		20 MIN													
5		X	20 MIN						X							

SHEET 2.E003 TAGGED NOTES

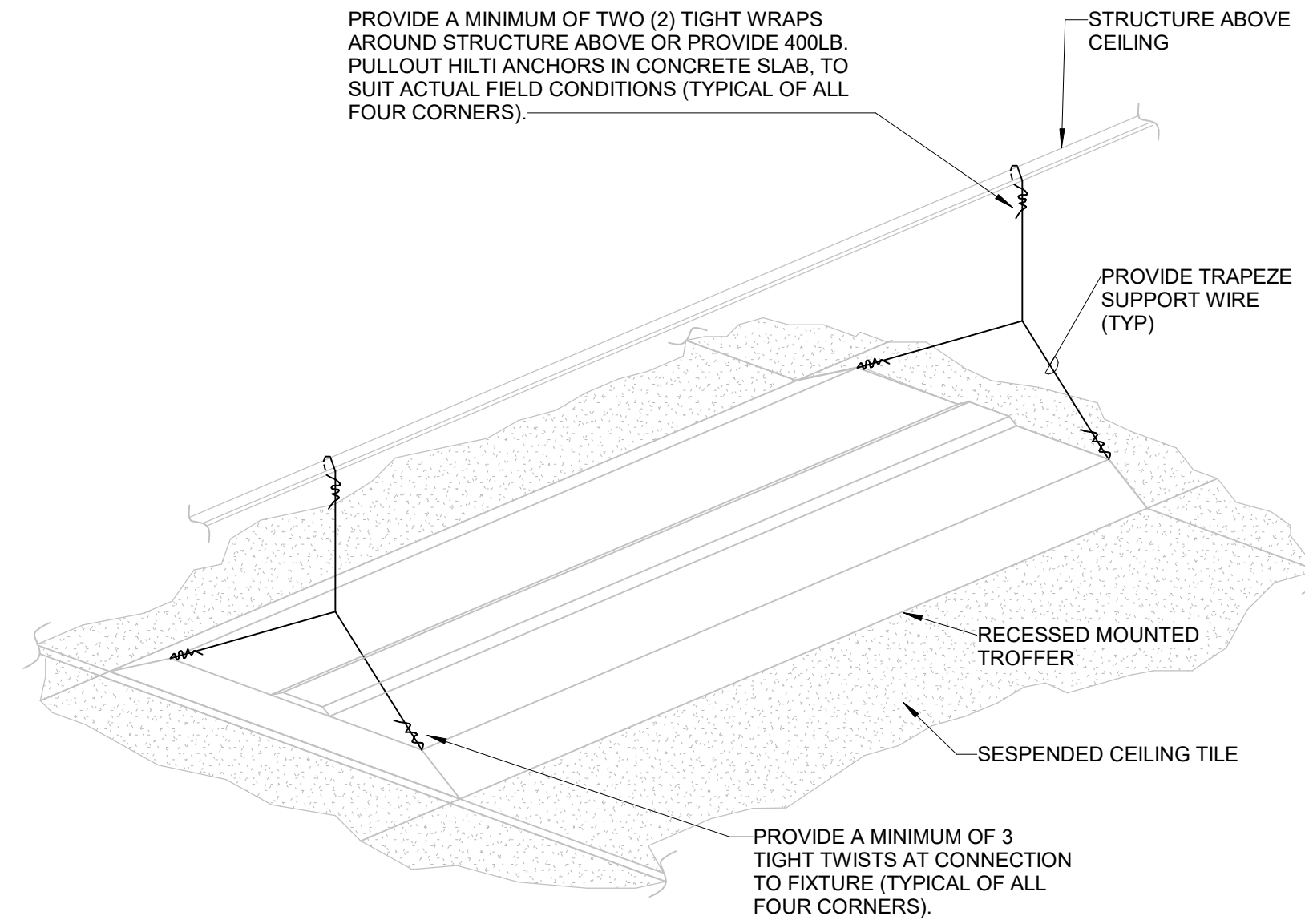
- 1 ZONE TO BE PRIMARILY CONTROLLED BY TIMECLOCK CONTROL ZONE VIA OCCUPANCY SENSOR DURING AFTER HOURS.



1	SUSPENDED CEILING T-RAIL	4	MOUNTING BRACKET, O.F.C.I.
2	T-BAR BOX HANGER, O.F.C.I.	5	WIRELESS ACCESS POINT, O.F.C.I.
3	BRACKET MOUNTING CLIP, O.F.C.I.	6	T-RAIL CLIP, O.F.C.I.

SYMBOL ON DRAWING: WAP

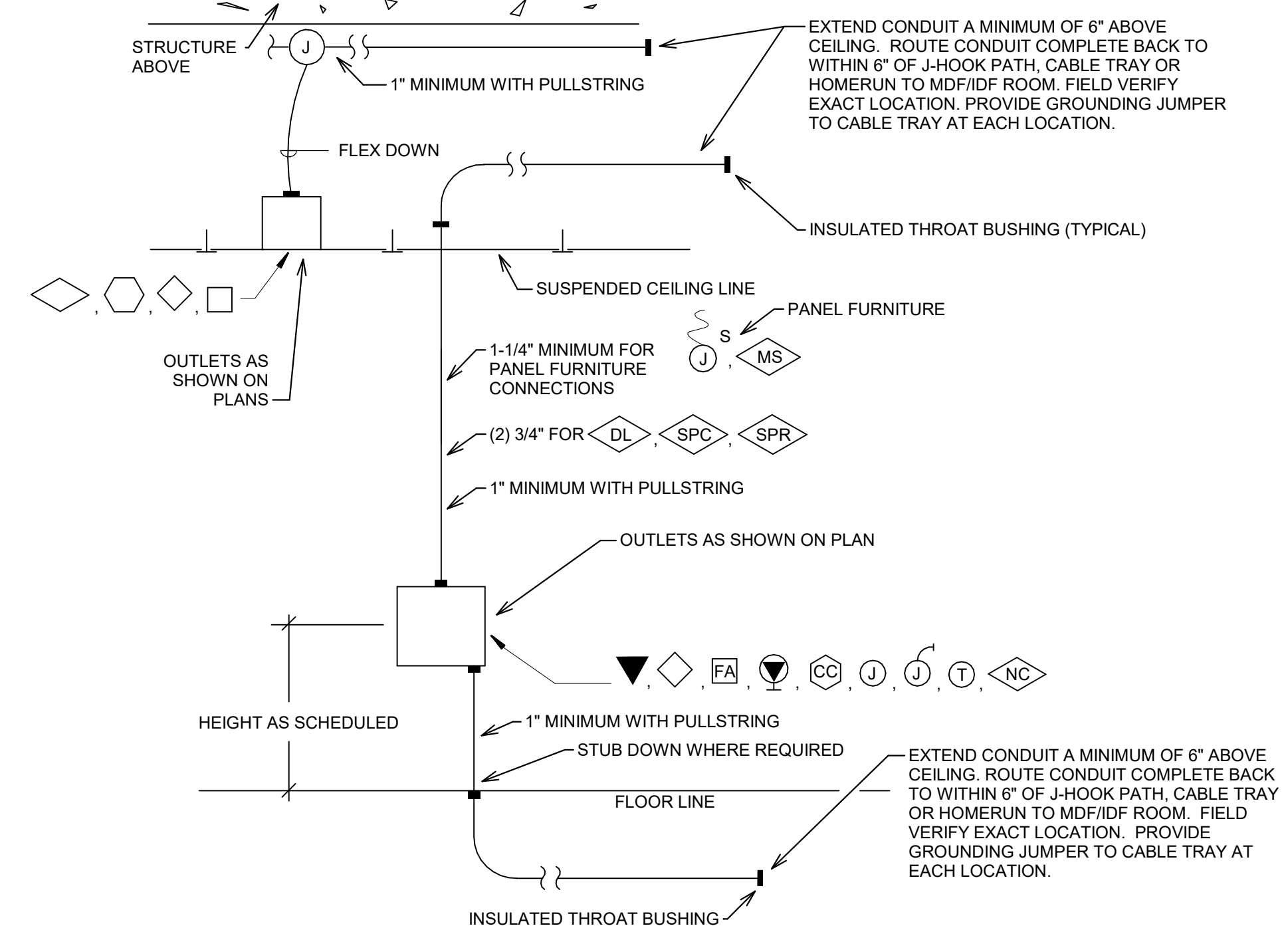
TYPICAL WIRELESS ACCESS POINT INSTALLATION DETAIL  
SCALE: NONE



GENERAL TROFFER SUPPORT DETAIL NOTES:

- A. SUPPORT WIRES SHALL BE GALVANIZED REGULAR COATING, SOFT TEMPER, 0.1055 INCHES IN DIAMETER (12 GAGE).
- B. SUPPORT FIXTURE INDEPENDENTLY FROM THE CEILING (GRID) SUPPORT.
- C. ALTERNATELY, CONTRACTOR MAY SUPPORT FIXTURES WITH SINGLE WIRE FROM ALL FOUR CORNERS OF FIXTURE PER SPECIFICATIONS WITH NUMBER OF TWISTS AT FIXTURE AND NUMBER OF WRAPS AROUND STRUCTURE INDICATED IN THIS DETAIL.

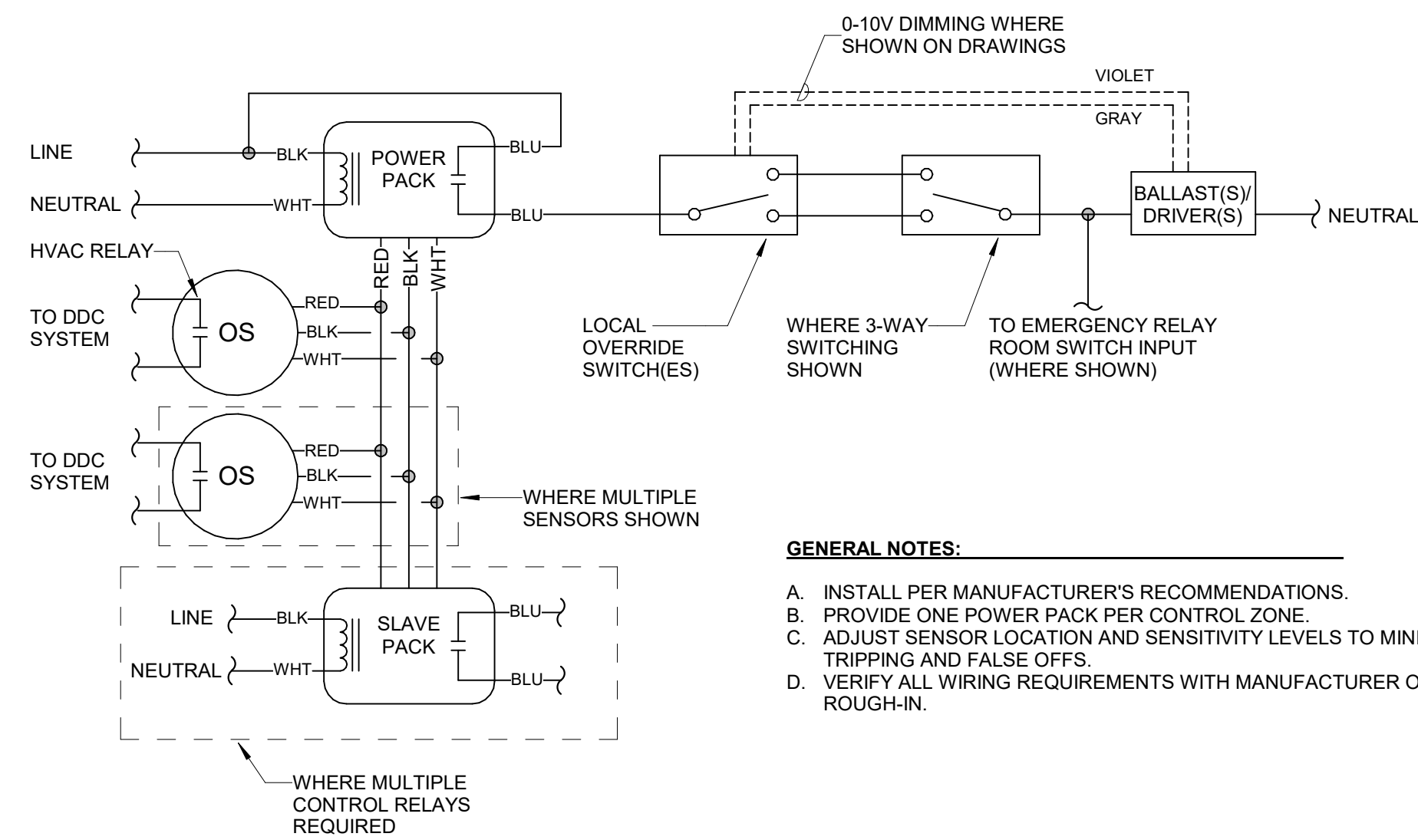
LUMINAIRE SUPPORT DETAIL  
SCALE: NONE



NOTES:

- A. EXTEND CONDUIT TO NEAREST WIRING PATH UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM (IN WHICH CASE, STUB CONDUIT OUT ABOVE THE ROOM'S SUSPENDED CEILING). REFER TO GENERAL NOTES LOCATED ON ALL SYSTEMS DRAWINGS. ACCESS CONTROL CONDUITS SHALL STUB ABOVE ACCESSIBLE CEILING FOR VENDOR FURNISHED ACCESS CONTROL CABLING, ETC.
- B. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET NEC REQUIREMENTS FOR SUCH INSTALLATIONS.
- C. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT.
- D. INSTALL TELECOMMUNICATION AND CABLE TV OUTLETS WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.

ROUGHING-IN DETAIL FOR STUB-OUTS  
SCALE: NONE



GENERAL NOTES:

- A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- B. PROVIDE ONE POWER PACK PER CONTROL ZONE.
- C. ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.
- D. VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF SENSOR PRIOR TO ROUGH-IN.

OCCUPANCY SENSOR - LOW VOLTAGE  
SCALE: NONE

No.	Revisions / Submissions	Date
11	BID AND PERMIT SET	2022-01-26



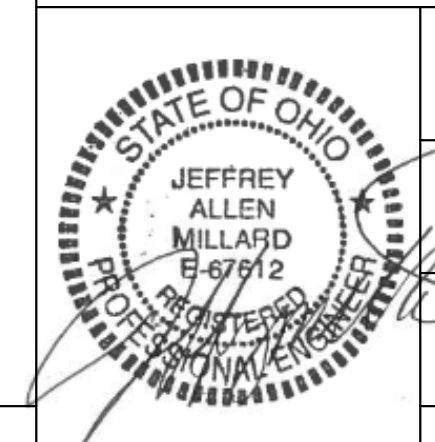
CITY OF KETTERING  
ROSEWOOD ARTS CENTER

INTERIOR RENOVATION  
PHASE 2

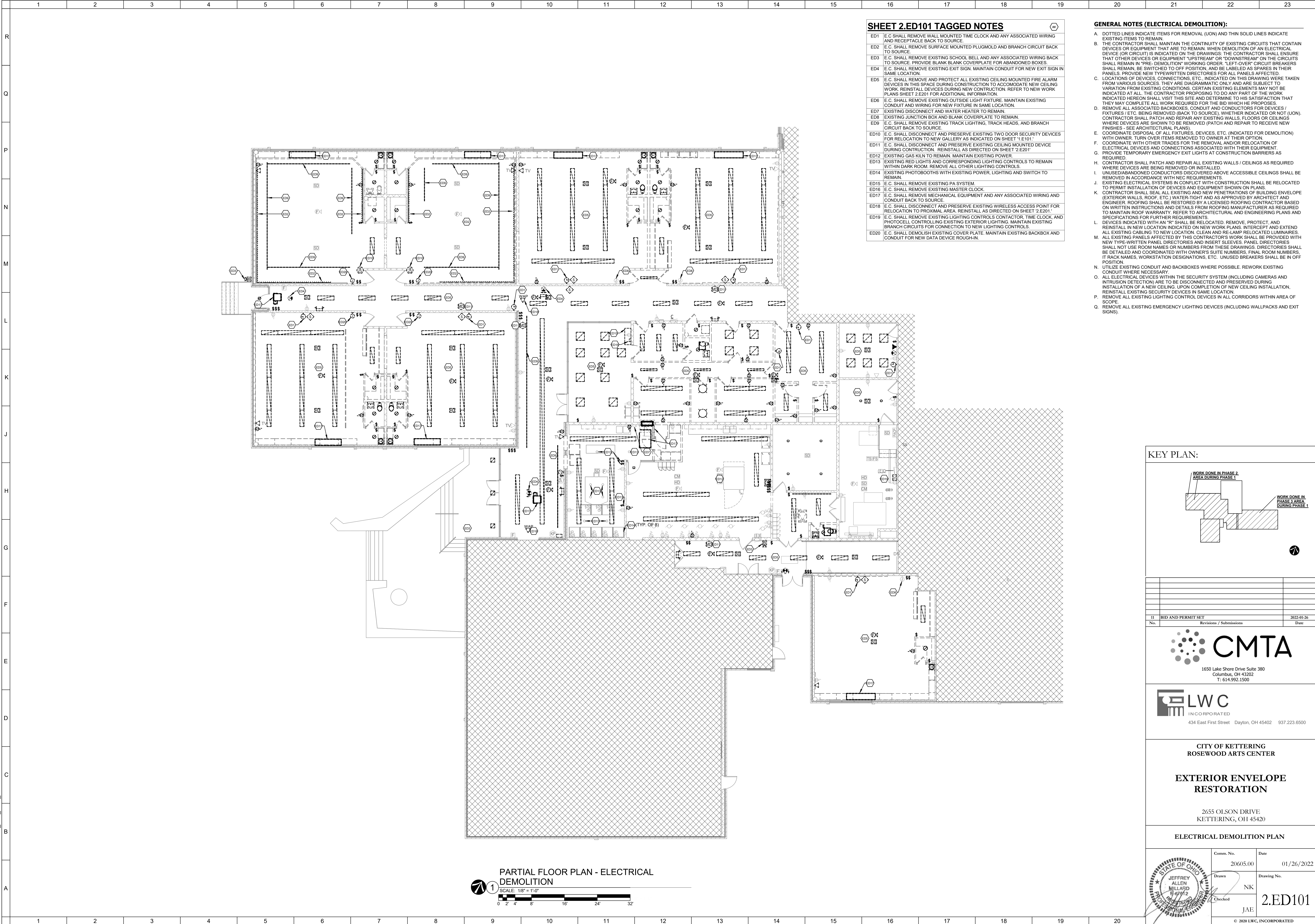
2655 OLSON DRIVE  
KETTERING, OH 45420

ELECTRICAL DETAILS AND SCHEDULES

Comm. No.	20605.00	Date	2022.01.26
Drawn	NK	Drawing No.	2.E003
Checked	JAE		



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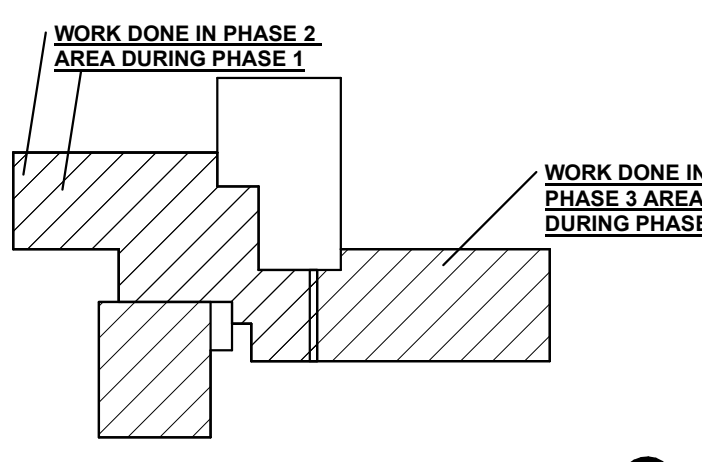
**SHEET 2.ED101 TAGGED NOTES**

- ED1 E.C. SHALL REMOVE WALL MOUNTED TIME CLOCK AND ANY ASSOCIATED WIRING AND RECEPTACLE BACK TO SOURCE.
- ED2 E.C. SHALL REMOVE SURFACE MOUNTED PLUGMOLD AND BRANCH CIRCUIT BACK TO SOURCE.
- ED3 E.C. SHALL REMOVE EXISTING SCHOOL BELL AND ANY ASSOCIATED WIRING BACK TO SOURCE. PROVIDE BLANK BLANK COVERPLATE FOR ABANDONED BOXES.
- ED4 E.C. SHALL REMOVE EXISTING EXIT SIGN. MAINTAIN CONDUIT FOR NEW EXIT SIGN IN SAME LOCATION.
- ED5 E.C. SHALL REMOVE AND PROTECT ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES IN THIS SPACE DURING CONSTRUCTION TO ACCOMMODATE NEW CEILING WORK. REINSTALL DEVICES DURING NEW CONSTRUCTION. REFER TO NEW WORK PLANS SHEET 2.E201 FOR ADDITIONAL INFORMATION.
- ED6 E.C. SHALL REMOVE EXISTING OUTSIDE LIGHT FIXTURE. MAINTAIN EXISTING CONDUIT AND WIRING FOR NEW FIXTURE IN SAME LOCATION.
- ED7 EXISTING DISCONNECT AND WATER HEATER TO REMAIN.
- ED8 EXISTING JUNCTION BOX AND BLANK COVERPLATE TO REMAIN.
- ED9 E.C. SHALL REMOVE EXISTING TRACK LIGHTING, TRACK HEADS, AND BRANCH CIRCUIT BACK TO SOURCE.
- ED10 E.C. SHALL DISCONNECT AND PRESERVE EXISTING TWO DOOR SECURITY DEVICES FOR RELOCATION TO NEW GALLERY AS INDICATED ON SHEET '1.E101'.
- ED11 E.C. SHALL DISCONNECT AND PRESERVE EXISTING CEILING MOUNTED DEVICE DURING CONSTRUCTION. REINSTALL AS DIRECTED ON SHEET '2.E201'.
- ED12 EXISTING GAS KILN TO REMAIN. MAINTAIN EXISTING POWER.
- ED13 EXISTING RED LIGHTS AND CORRESPONDING LIGHTING CONTROLS TO REMAIN WITHIN DARK ROOM. REMOVE ALL OTHER LIGHTING CONTROLS.
- ED14 EXISTING PHOTOBOOTH'S WITH EXISTING POWER, LIGHTING AND SWITCH TO REMAIN.
- ED15 E.C. SHALL REMOVE EXISTING PA SYSTEM.
- ED16 E.C. SHALL REMOVE EXISTING MASTER CLOCK.
- ED17 E.C. SHALL REMOVE MECHANICAL EQUIPMENT AND ANY ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
- ED18 E.C. SHALL DISCONNECT AND PRESERVE EXISTING WIRELESS ACCESS POINT FOR RELOCATION TO PROXIMAL AREA. REINSTALL AS DIRECTED ON SHEET '2.E201'.
- ED19 E.C. SHALL REMOVE EXISTING LIGHTING CONTROLS, TIME CLOCK, AND PHOTOCELL CONTROLLING EXISTING EXTERIOR LIGHTING. MAINTAIN EXISTING BRANCH CIRCUITS FOR CONNECTION TO NEW LIGHTING CONTROLS.
- ED20 E.C. SHALL DEMOLISH EXISTING COVER PLATE. MAINTAIN EXISTING BACKBOX AND CONDUIT FOR NEW DATA DEVICE ROUGH-IN.

**GENERAL NOTES (ELECTRICAL DEMOLITION):**

- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT 'UPSTREAM' OR 'DOWNSTREAM' ON THE CIRCUITS SHALL REMAIN IN 'PRE-DEMOLITION' WORKING ORDER. 'LEFT-OVER' CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- C. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUMENTS AND DETAILS FROM ROOFING MANUFACTURERS AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- L. DEVICES INDICATED WITH 'X' SHALL BE RELOCATED, REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N. UTILIZE EXISTING CONDUIT AND BACKBOXES WHERE POSSIBLE. REWORK EXISTING CONDUIT WHERE NECESSARY.
- O. ALL ELECTRICAL DEVICES WITHIN THE SECURITY SYSTEM (INCLUDING CAMERAS AND INTRUSION DETECTORS) ARE TO BE DISCONNECTED AND PRESERVED DURING INSTALLATION OF A NEW CEILING. UPON COMPLETION OF NEW CEILING INSTALLATION, REINSTALL EXISTING SECURITY DEVICES IN SAME LOCATION.
- P. REMOVE ALL EXISTING LIGHTING CONTROL DEVICES IN ALL CORRIDORS WITHIN AREA OF SCOPE.
- Q. REMOVE ALL EXISTING EMERGENCY LIGHTING DEVICES (INCLUDING WALLPACKS AND EXIT SIGNS).

**KEY PLAN:**



11	BID AND PERMIT SET	2022-01-26
No.	Revisions / Submissions	Date

**CMTA**  
1650 Lake Shore Drive Suite 380  
Columbus, OH 43202  
T: 614.992.1500

**LWC**  
INCORPORATED  
434 East First Street Dayton, OH 45402 937.223.6500

CITY OF KETTERING  
ROSEWOOD ARTS CENTER

**EXTERIOR ENVELOPE  
RESTORATION**

2655 OLSON DRIVE  
KETTERING, OH 45420

**ELECTRICAL DEMOLITION PLAN**

	Comm. No.	Date
	20605.00	01/26/2022
	Drawn	Drawing No.
Checked	2.ED101	
	JAE	

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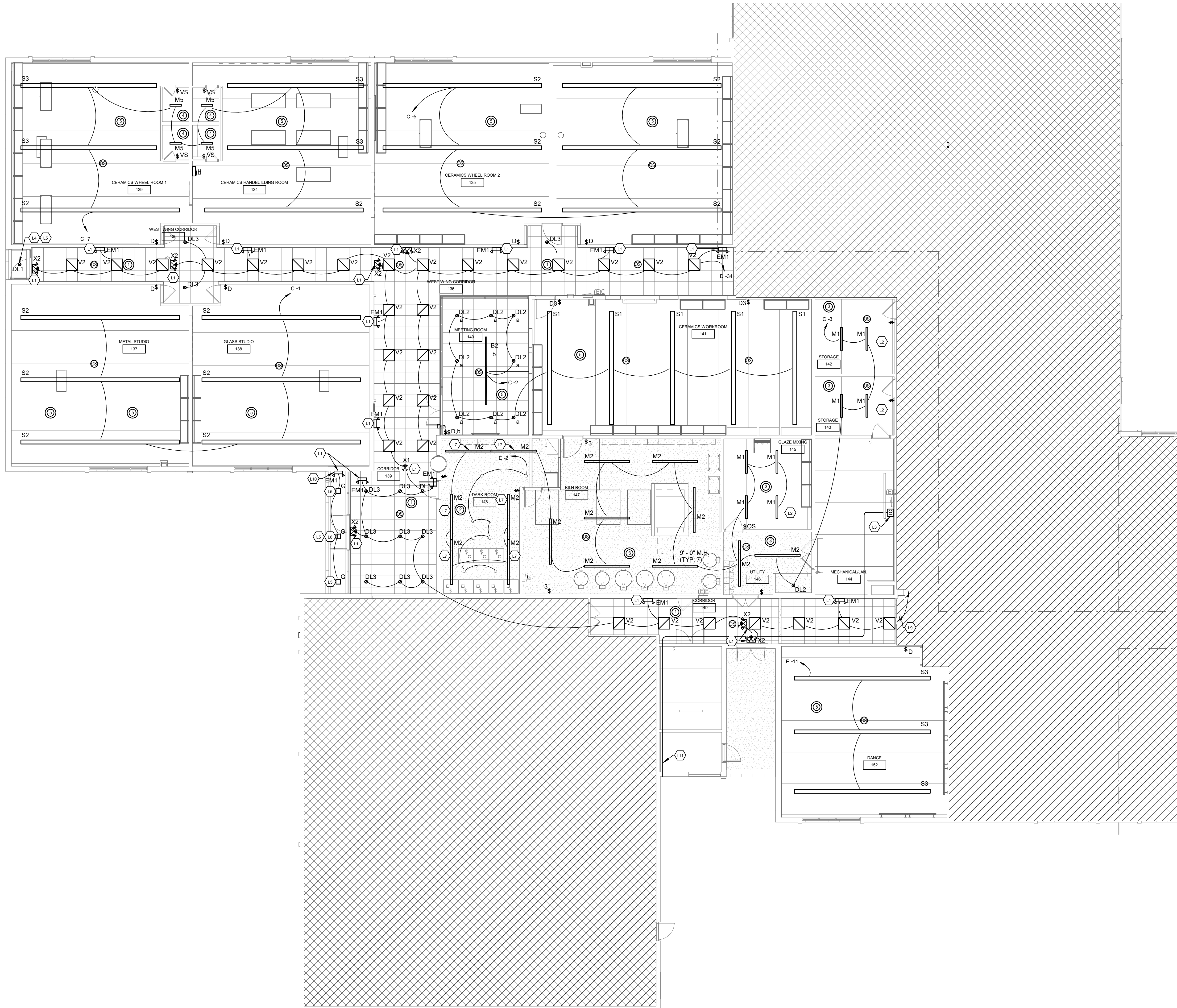
**PARTIAL FLOOR PLAN - ELECTRICAL  
DEMOLITION**  
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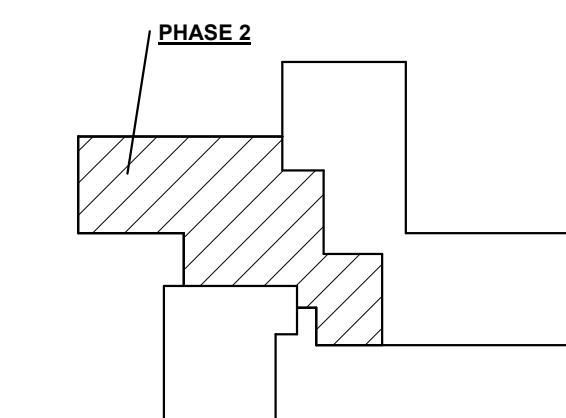
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- GENERAL NOTES (LIGHTING):**
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
  - CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTITRIP BRANCH CIRCUITS AS DEFINED IN N.E.C. #100.2(D) (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
  - IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.
  - LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING. TO MAXIMIZE AVAILABLE LIGHT, SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
  - LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
  - WHERE EXIT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWITCHED LINE.
  - LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
  - ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGERPRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
  - RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY INVERTER BATTERY PACKS AS REQUIRED.

- SHEET 2.E101 TAGGED NOTES**
- E.C. SHALL CONNECT EMERGENCY EGRESS LIGHT AHEAD OF ANY/ALL LOCAL CONTROLS AND SWITCHING.
  - E.C. SHALL MOUNT LIGHTING WITHIN THIS ROOM TO STRUCTURE. E.C. SHALL PROVIDE MOUNTING ACCESSORIES AS NEEDED.
  - E.C. SHALL REPLACE EXISTING TIME CLOCK AND PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTING FIXTURES. INCORPORATE EXISTING EXTERIOR LIGHTING BRANCH CIRCUITS INTO NEW CONTROL SYSTEM.
  - E.C. SHALL ORDER LIGHT FIXTURE WITH INTEGRAL BATTERY PACK 'ELSD' OPTION.
  - E.C. SHALL UTILIZE EXISTING BRANCH CIRCUIT AND LIGHTING CONTROLS SERVING EXISTING FIXTURE.
  - E.C. SHALL TIE INTO EXISTING BRANCH CIRCUIT PREVIOUSLY SERVING CANOPY LIGHTING.
  - E.C. SHALL SURFACE MOUNT NEW FIXTURES IN PLACE OF EXISTING FIXTURES THAT WERE REMOVED DURING DEMOLITION.
  - E.C. SHALL ORDER LIGHT FIXTURE WITH INTEGRAL BATTERY PACK 'BB1' OPTION.
  - E.C. SHALL UTILIZE EXISTING SWITCH FROM PHASE 1 TO CONTROL ALL LIGHTING DESIGNATED BY "m".
  - E.C. SHALL PROVIDE WALLPACK WITH DAMP LOCATION OPTION.
  - E.C. SHALL PROVIDE CONNECTION TO SITE LIGHTING INSTALLED IN PHASE 1. COORDINATE LOCATION FOR CONNECTION WITH SITE LIGHTING DESIGNER. ROUTE CONDUIT AND CONDUCTORS BACK TO NEW TIME CLOCK FOR EXTERIOR LIGHTING CONTROL. MATCH CONDUCTOR AND CONDUIT SIZES CALLED OUT ON SITE LIGHTING DRAWINGS.

**KEY PLAN:**



No.	Revisions / Submissions	Date
11	BID AND PERMIT SET	2022-01-26

**CMTA**  
1650 Lake Shore Drive Suite 380  
Columbus, OH 43202  
T: 614.992.1500

**LWC**  
INCORPORATED  
434 East First Street Dayton, OH 45402 937.223.6500

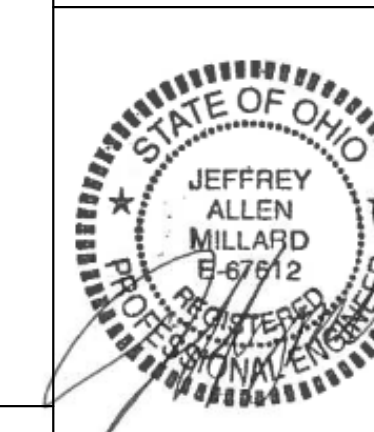
**CITY OF KETTERING  
ROSEWOOD ARTS CENTER**

**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
KETTERING, OH 45420

**LIGHTING PLAN**

Comm. No.	Date
20605.00	2022.01.26
Drawn	Drawing No.
NK	2.E101
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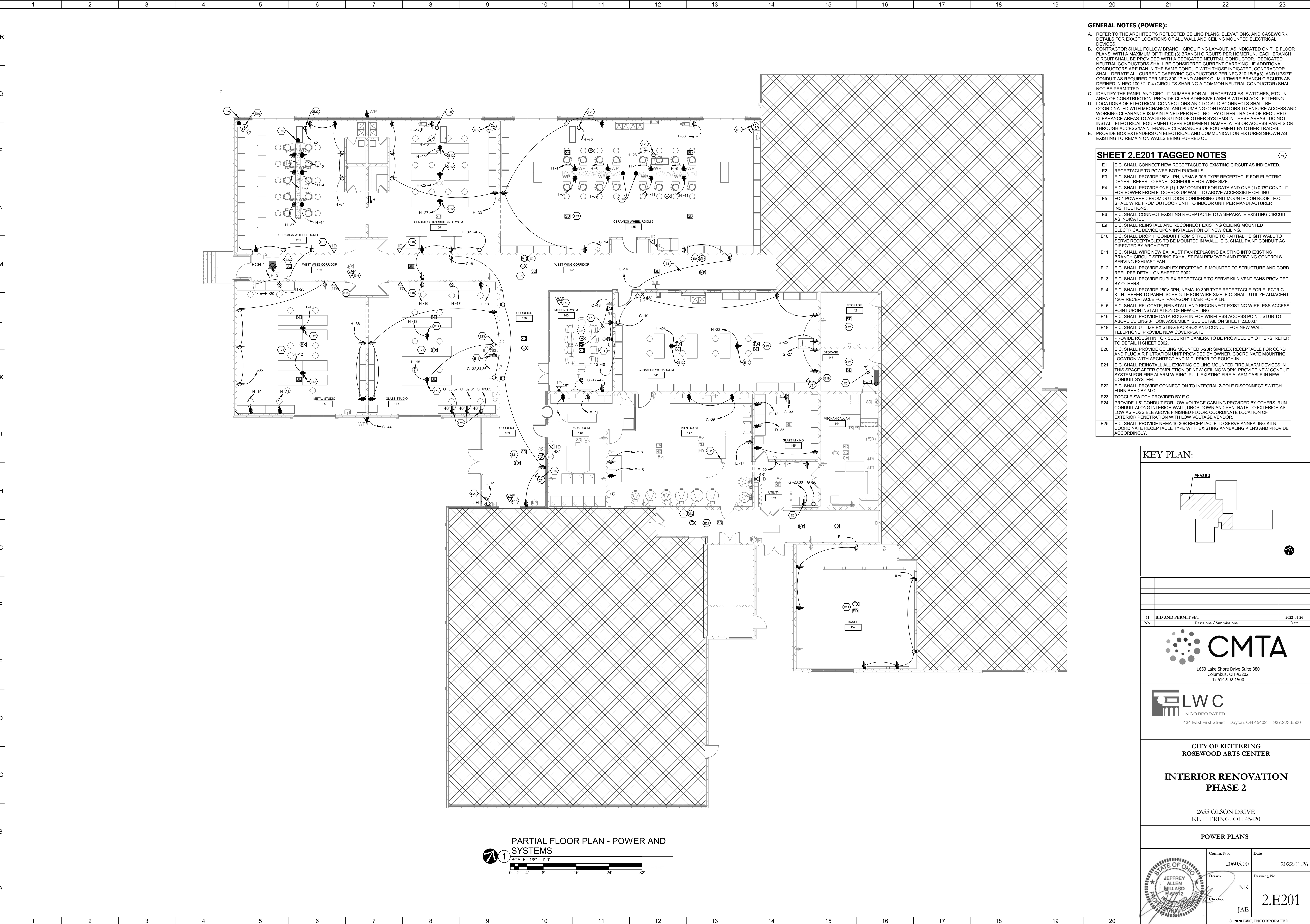


**1 PARTIAL FLOOR PLAN - LIGHTING**  
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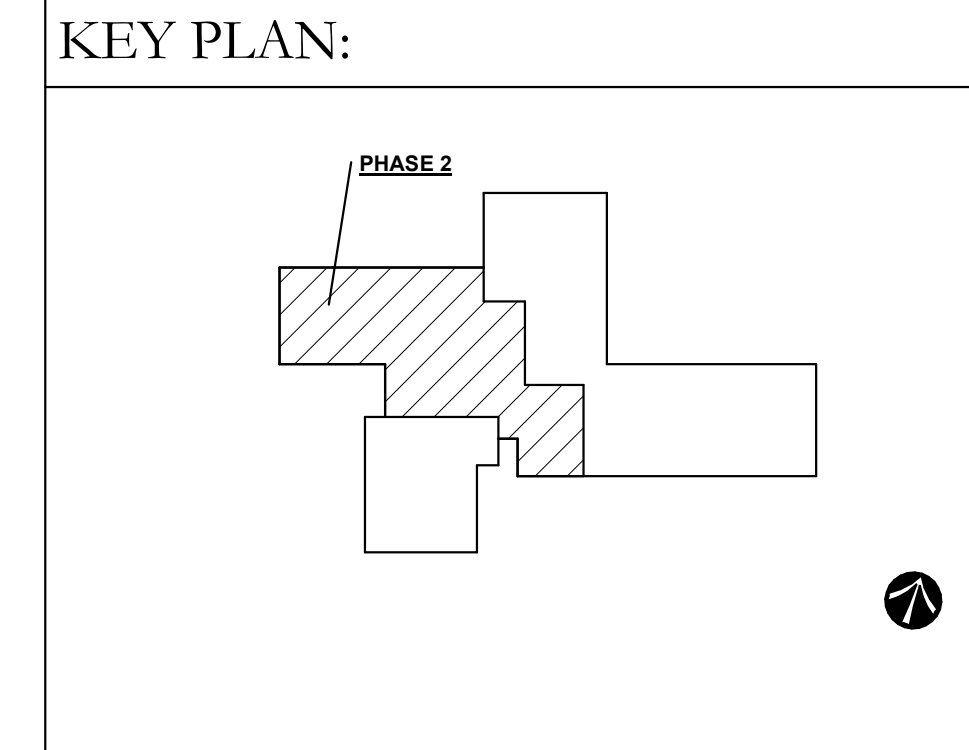


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- GENERAL NOTES (POWER):**
- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
  - B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
  - C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.
  - D. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
  - E. PROVIDE BOX EXTENDERS ON ELECTRICAL AND COMMUNICATION FIXTURES SHOWN AS EXISTING TO REMAIN ON WALLS BEING FURRED OUT.

- SHEET 2.E201 TAGGED NOTES**
- E1 E.C. SHALL CONNECT NEW RECEPTACLE TO EXISTING CIRCUIT AS INDICATED.
  - E2 RECEPTACLE TO POWER BOTH FRIGIDERS.
  - E3 E.C. SHALL PROVIDE 250V-1PH, NEMA 6-30R TYPE RECEPTACLE FOR ELECTRIC DRYER. REFER TO PANEL SCHEDULE FOR WIRE SIZE.
  - E4 E.C. SHALL PROVIDE ONE (1) 1" 2" CONDUIT FOR DATA AND ONE (1) 0.75" CONDUIT FOR POWER FROM FLOORBOX UP WALL TO ABOVE ACCESSIBLE CEILING.
  - E5 FC-1 POWERED FROM OUTDOOR CONDENSING UNIT MOUNTED ON ROOF. E.C. SHALL WIRE FROM OUTDOOR UNIT TO INDOOR UNIT PER MANUFACTURER INSTRUCTIONS.
  - E6 E.C. SHALL CONNECT EXISTING RECEPTACLE TO A SEPARATE EXISTING CIRCUIT AS INDICATED.
  - E9 E.C. SHALL REINSTALL AND RECONNECT EXISTING CEILING MOUNTED ELECTRICAL DEVICE UPON INSTALLATION OF NEW CEILING.
  - E10 E.C. SHALL DROP 1" CONDUIT FROM STRUCTURE TO PARTIAL HEIGHT WALL TO SERVE RECEPTACLES TO BE MOUNTED IN WALL. E.C. SHALL PAINT CONDUIT AS DIRECTED BY ARCHITECT.
  - E11 E.C. SHALL WIRE NEW EXHAUST FAN REPLACING EXISTING INTO EXISTING BRANCH CIRCUIT SERVING EXHAUST FAN REMOVED AND EXISTING CONTROLS SERVING EXHAUST FAN.
  - E12 E.C. SHALL PROVIDE SIMPLEX RECEPTACLE MOUNTED TO STRUCTURE AND CORD REEL PER DETAIL ON SHEET 2.E002.
  - E13 E.C. SHALL PROVIDE DUPLEX RECEPTACLE TO SERVE KILN VENT FANS PROVIDED BY OTHERS.
  - E14 E.C. SHALL PROVIDE 250V-3PH, NEMA 10-30R TYPE RECEPTACLE FOR ELECTRIC KILN. REFER TO PANEL SCHEDULE FOR WIRE SIZE. E.C. SHALL UTILIZE ADJACENT 120V RECEPTACLE FOR PARAGON TIMER FOR KILN.
  - E15 E.C. SHALL RELOCATE, REINSTALL AND RECONNECT EXISTING WIRELESS ACCESS POINT UPON INSTALLATION OF NEW CEILING.
  - E16 E.C. SHALL PROVIDE DATA ROUGH-IN FOR WIRELESS ACCESS POINT. STUB TO ABOVE CEILING, J-HOOK ASSEMBLY. SEE DETAIL ON SHEET 2.E003.
  - E17 E.C. SHALL UTILIZE EXISTING BACKBOX AND CONDUIT FOR NEW WALL TELEPHONE. PROVIDE NEW COVERPLATE.
  - E19 PROVIDE ROUGH IN FOR SECURITY CAMERA TO BE PROVIDED BY OTHERS. REFER TO DETAIL H SHEET E002.
  - E20 E.C. SHALL PROVIDE CEILING MOUNTED 5-20R SIMPLEX RECEPTACLE FOR CORD AND PLUG AIR FILTRATION UNIT PROVIDED BY OWNER. COORDINATE MOUNTING LOCATION WITH ARCHITECT AND M.C. PRIOR TO ROUGH-IN.
  - E21 E.C. SHALL REINSTALL ALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES IN THIS SPACE AFTER COMPLETION OF NEW CEILING WORK. PROVIDE NEW CONDUIT SYSTEM FOR FIRE ALARM WIRING. PULL EXISTING FIRE ALARM CABLE IN NEW CONDUIT SYSTEM.
  - E22 E.C. SHALL PROVIDE CONNECTION TO INTEGRAL 2-POLE DISCONNECT SWITCH FURNISHED BY M.C.
  - E23 TOGGLE SWITCH PROVIDED BY E.C.
  - E24 PROVIDE 1.5" CONDUIT FOR LOW VOLTAGE CABLING PROVIDED BY OTHERS. RUN CONDUIT ALONG INTERIOR WALL, DROP DOWN AND PENETRATE TO EXTERIOR AS LOW AS POSSIBLE ABOVE FINISHED FLOOR. COORDINATE LOCATION OF EXTERIOR PENETRATION WITH LOW VOLTAGE VENDOR.
  - E25 E.C. SHALL PROVIDE NEMA 10-30R RECEPTACLE TO SERVE ANNEALING KILN. COORDINATE RECEPTACLE TYPE WITH EXISTING ANNEALING KILNS AND PROVIDE ACCORDINGLY.

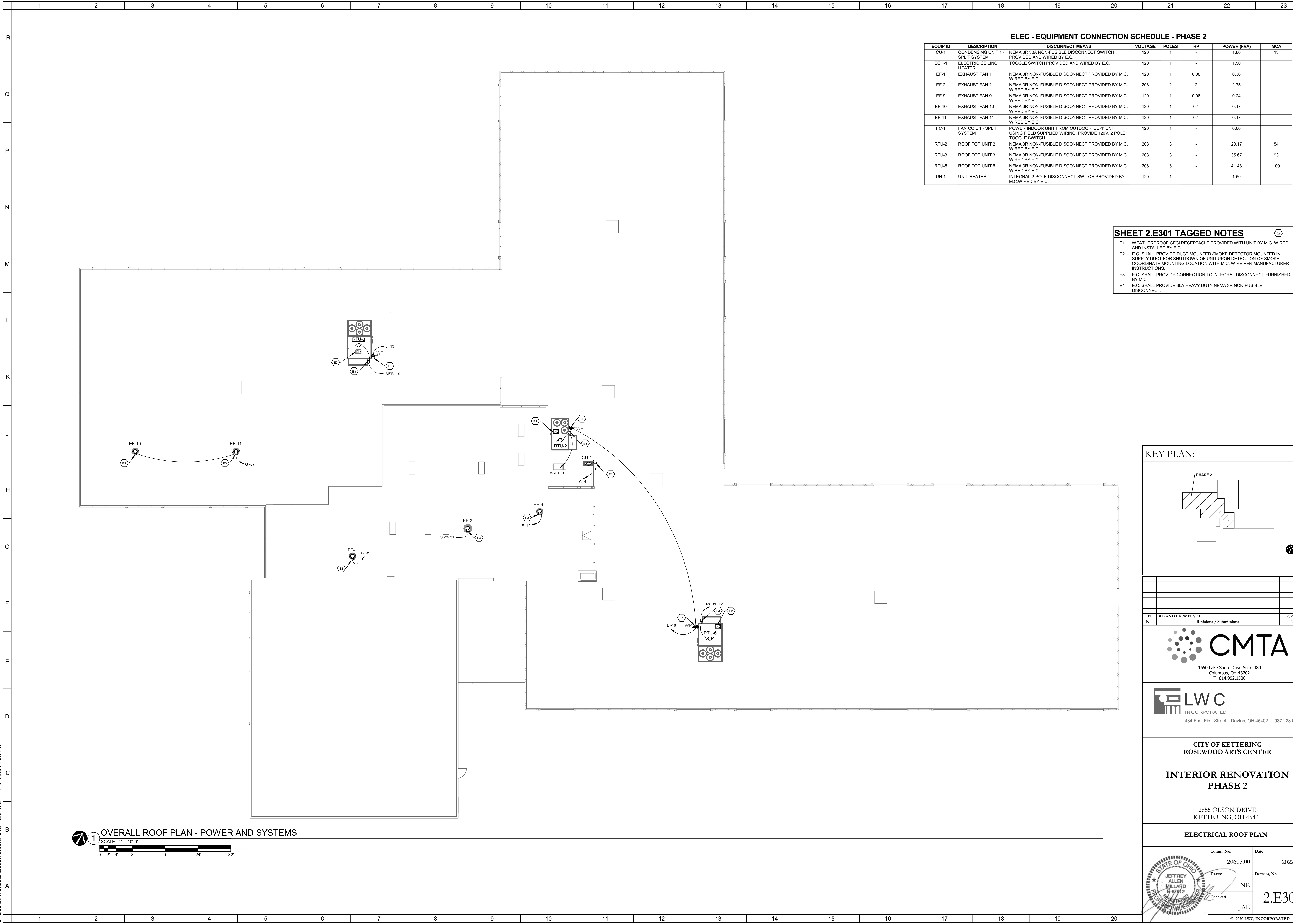


**PARTIAL FLOOR PLAN - POWER AND SYSTEMS**  
 SCALE: 1/8" = 1'-0"  
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11 BID AND PERMIT SET		2022-01-26
No.	Revisions / Submissions	Date
 <b>CMTA</b> 1650 Lake Shore Drive Suite 380 Columbus, OH 43202 T: 614.992.1500		
 <b>LWC</b> INCORPORATED 434 East First Street Dayton, OH 45402 937.223.6500		
<b>CITY OF KETTERING</b> <b>ROSEWOOD ARTS CENTER</b>  <b>INTERIOR RENOVATION</b> <b>PHASE 2</b> 2655 OLSON DRIVE KETTERING, OH 45420		
<b>POWER PLANS</b>		
Comm. No.	Date	2022.01.26
20605.00		
Drawn	Checked	Drawing No.
NK	JAE	2.E201
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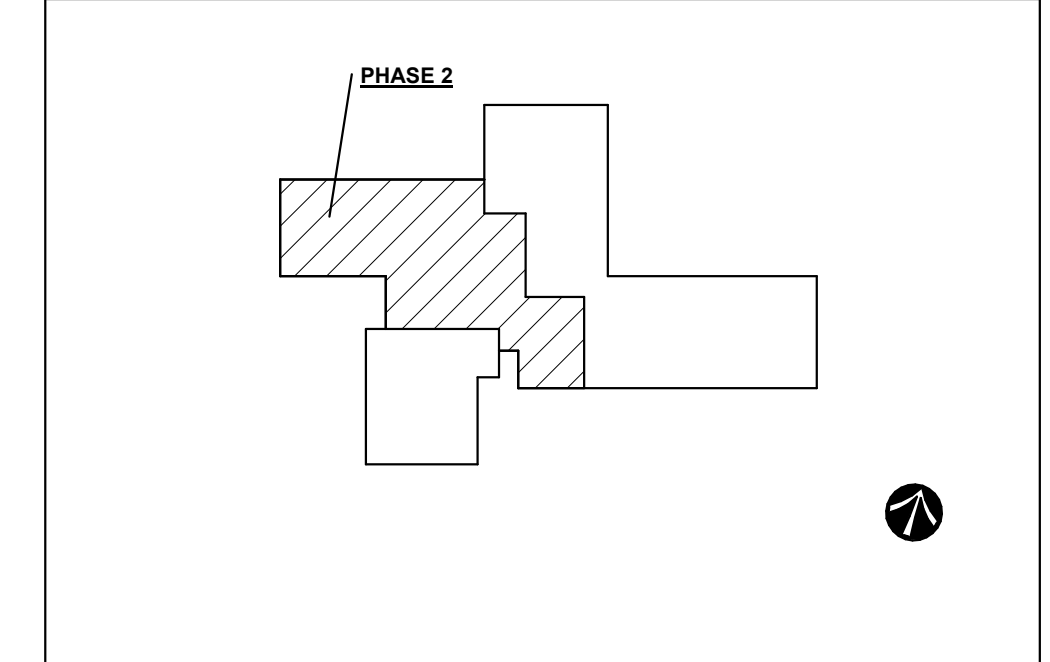
**ELEC - EQUIPMENT CONNECTION SCHEDULE - PHASE 2**

EQUIP ID	DESCRIPTION	DISCONNECT MEANS	VOLTAGE	POLES	HP	POWER (KVA)	MCA
CU-1	CONDENSING UNIT 1 - SPLIT SYSTEM	NEMA 3R 30A NON-FUSIBLE DISCONNECT SWITCH PROVIDED AND WIRED BY E.C.	120	1	-	1.80	13
ECH-1	ELECTRIC CEILING HEATER 1	TOGGLE SWITCH PROVIDED AND WIRED BY E.C.	120	1	-	1.50	
EF-1	EXHAUST FAN 1	NEMA 3R NON-FUSIBLE DISCONNECT PROVIDED BY M.C. WIRED BY E.C.	120	1	0.08	0.36	
EF-2	EXHAUST FAN 2	NEMA 3R NON-FUSIBLE DISCONNECT PROVIDED BY M.C. WIRED BY E.C.	208	2	2	2.75	
EF-9	EXHAUST FAN 9	NEMA 3R NON-FUSIBLE DISCONNECT PROVIDED BY M.C. WIRED BY E.C.	120	1	0.06	0.24	
EF-10	EXHAUST FAN 10	NEMA 3R NON-FUSIBLE DISCONNECT PROVIDED BY M.C. WIRED BY E.C.	120	1	0.1	0.17	
EF-11	EXHAUST FAN 11	NEMA 3R NON-FUSIBLE DISCONNECT PROVIDED BY M.C. WIRED BY E.C.	120	1	0.1	0.17	
FC-1	FAN COIL 1 - SPLIT SYSTEM	POWER INDOOR UNIT FROM OUTDOOR 'CU-1' UNIT USING FIELD SUPPLIED WIRING. PROVIDE 120V, 2 POLE TOGGLE SWITCH.	120	1	-	0.00	
RTU-2	ROOF TOP UNIT 2	NEMA 3R NON-FUSIBLE DISCONNECT PROVIDED BY M.C. WIRED BY E.C.	208	3	-	20.17	54
RTU-3	ROOF TOP UNIT 3	NEMA 3R NON-FUSIBLE DISCONNECT PROVIDED BY M.C. WIRED BY E.C.	208	3	-	35.67	93
RTU-6	ROOF TOP UNIT 6	NEMA 3R NON-FUSIBLE DISCONNECT PROVIDED BY M.C. WIRED BY E.C.	208	3	-	41.43	109
UH-1	UNIT HEATER 1	INTEGRAL 2-POLE DISCONNECT SWITCH PROVIDED BY M.C. WIRED BY E.C.	120	1	-	1.50	

**SHEET 2.E301 TAGGED NOTES**

- E1 WEATHERPROOF GFCI RECEPTACLE PROVIDED WITH UNIT BY M.C. WIRED AND INSTALLED BY E.C.
- E2 E.C. SHALL PROVIDE DUCT MOUNTED SMOKE DETECTOR MOUNTED IN SUPPLY DUCT FOR SHUTDOWN OF UNIT UPON DETECTION OF SMOKE. COORDINATE MOUNTING LOCATION WITH M.C. WIRE PER MANUFACTURER INSTRUCTIONS.
- E3 E.C. SHALL PROVIDE CONNECTION TO INTEGRAL DISCONNECT FURNISHED BY M.C.
- E4 E.C. SHALL PROVIDE 30A HEAVY DUTY NEMA 3R NON-FUSIBLE DISCONNECT.

**KEY PLAN:**



No.	Revisions / Submissions	Date
11	BID AND PERMIT SET	2022-01-26

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CITY OF KETTERING  
ROSEWOOD ARTS CENTER

**INTERIOR RENOVATION  
PHASE 2**

2655 OLSON DRIVE  
KETTERING, OH 45420

**ELECTRICAL ROOF PLAN**

	Comm. No.	Date
	20605.00	2022.01.26
	Drawn NK	Drawing No. 2.E301
	Checked JAE	

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**1 OVERALL ROOF PLAN - POWER AND SYSTEMS**  
SCALE: 1" = 10'-0"

