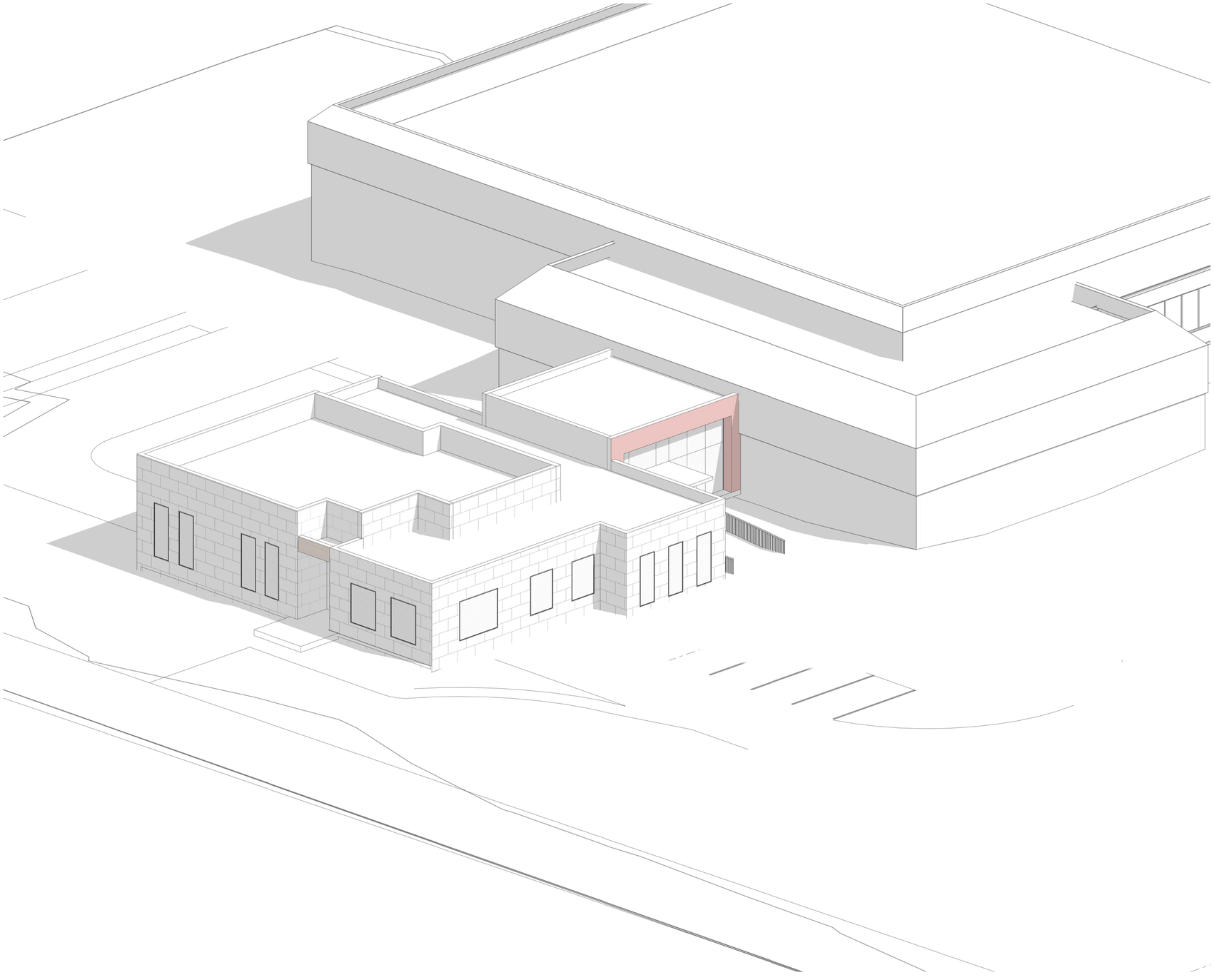
CITY OF INKSTER SENIOR WELLNESS CENTER



SHEET LIST

SHEET NUMBER	SHEET NAME
A000	COVER SHEET
A001	PROJECT INFORMATION & NOTES
A002	ACCESSIBILITY DIAGRAMS
A100	SITE PLAN
A101	ROOF PLAN DEMO
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A303	CURTAIN WALL
A304	PANEL DETAILS
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A601	ELECTRICAL PLAN
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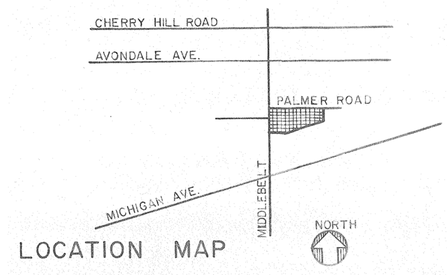
FP1-0	FIRE PROTECTION NOTES
FP2-0	FIRE PROTECTION PLAN
FP3-1	FIRE PROTECTION DETAILS
M1-0	HVAC NOTES
M1-1	HVAC SCHEDULES
M2-0	HVAC ROOF PLAN
M2-1	HVAC PLAN
M2-2	HVAC DIFFUSER PLAN
M3-1	HVAC DETAILS
M4-1	HVAC CONTROLS
P1-0	PLUMBING NOTES
P2-0	PLUMBING SANITARY PLAN
P2-1	PLUMBING WATER PLAN
P2-2	PLUMBING STORM PLAN
P2-3	GAS PIPING PLAN
P3-1	PLUMBING DETAILS
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S103	STRUCTURAL DETAILS

49

LOCATION MAP



2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

STATE OF MICHIGAN
Ian Miguel Thompson
License No. 6201064188
LICENSED PROFESSIONAL ENGINEER

COVER SHEET

A000

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GENERAL NOTES

PERFORMANCE OF THE WORK:

1. ALL PARTIES PERFORMING WORK OF THE PROJECT SHALL COMPLY WITH ALL APPLICABLE NATIONAL, FEDERAL, STATE, REGIONAL, LOCAL, AND MUNICIPAL CODES, STANDARDS, AND ORDINANCES.
2. PERFORMANCE OF THE WORK SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND THE REQUIREMENTS, POLICIES AND PROCEDURES OF THE OWNER.
3. INVESTIGATE EXISTING CONDITIONS; VERIFY AND BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE PROJECT. NOTIFY THE ARCHITECT IN WRITING OF ANY CONDITIONS CONTRARY TO THE CONTRACT DOCUMENTS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
4. ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE A CONDITION OF THE FULFILLMENT OF THE CONTRACT.
5. MAINTAIN THROUGHOUT THE CONSTRUCTION PERIOD, A CERTIFICATE OF INSURANCE FOR ALL LIABILITIES, WITH A HOLD HARMLESS CLAUSE, PROTECTING THE OWNER AND THE ARCHITECT.

BIDDING AND CONTRACT DOCUMENTS:

1. THE DRAWINGS SHALL BE ISSUED TOGETHER AND COMPLETELY AS A DOCUMENT SET FOR BIDDING AND CONSTRUCTION.
2. THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY, EACH TO THE OTHER, AND WHAT IS CALLED FOR BY ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH. FOR MATERIALS IDENTIFIED ON THE DRAWINGS, SEE THE SPECIFICATIONS FOR GENERAL, PRODUCT AND EXECUTION INFORMATION.
3. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO INCLUDE EVERYTHING REQUISITE AND NECESSARY TO COMPLETE THE WORK EVEN IF EVERYTHING REQUIRED FOR SUCH WORK IS NOT SPECIFICALLY MENTIONED OR INDICATED.
4. NOTES AND REFERENCES RELATIVE TO DIFFERENT CONSTRUCTION MATERIALS, DETAILS, ASSEMBLIES AND SYSTEMS APPEAR ON VARIOUS SHEETS. SUCH NOTES AND REFERENCES ON ANY ONE SHEET ARE APPLICABLE TO RELATED DRAWINGS THROUGHOUT THE SET.
5. SHOULD A DISCREPANCY BETWEEN NOTES, DRAWINGS AND/OR TECHNICAL SPECIFICATIONS BE DISCOVERED, SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR RESOLUTION OF THE DISCREPANCY.
6. KEYNOTES TAGGED TO THE DRAWINGS WITH NUMBERED OR LETTERED SYMBOLS ARE TYPICAL FOR ALL SIMILAR CONDITIONS WHETHER TAGGED OR NOT.
7. DETAILS SHOWN ARE INDICATIVE OF PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK.
8. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILS SHOWN.
9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN. PRINTED DRAWINGS MAY BE REPRODUCED AT A SCALE DIFFERENT THAN INTENDED BY THE ORIGINAL DRAWING. SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR RESOLUTION OF ANY DIMENSIONAL DISCREPANCIES.
10. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
11. VERIFY ALL DIMENSIONS, INCLUDING BUT NOT LIMITED TO EXISTING CONDITIONS, LAYOUT OF THE WORK, AND WORK ALREADY INSTALLED BEFORE PROCEEDING WITH NEW WORK.

COORDINATION AND SUBSTITUTION:

1. COORDINATE WORK OF ALL TRADES WITH ONE ANOTHER IN ORDER TO AVOID INTERFERENCES, TO PRESERVE MAXIMUM HEAD ROOM AND TO AVOID OMISSIONS.
2. ALL ADDITIONAL COSTS, INCLUDING ALTERATION COSTS OF WORK ALREADY INSTALLED, RESULTING FROM SUBMITTALS AND SHOP DRAWINGS NOT SUBMITTED IN A TIMELY MANOR, AND NOT ALLOWING RELATED WORK TO BE INSTALLED FOR THE PROPER INSTALLATION OF THE SUBJECT WORK, SHALL BE THE SUBMITTING CONTRACTOR'S RESPONSIBILITY.
3. PROPOSED CHANGES TO ANY CONSTRUCTION MATERIALS, DETAILS, ASSEMBLIES AND SYSTEMS, ETC. SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT IN ACCORDANCE WITH THE PROJECT MANUAL.
4. ACCEPTED SUBSTITUTIONS REQUIRE THAT THE CONTRACTOR RESPONSIBLE FOR THE PROPOSED CHANGE TO FULLY COORDINATE WITH ALL TRADES AFFECTED BY THE SUBSTITUTION WITH RESPECT TO, BUT NOT LIMITED TO, DIMENSIONS, CLEARANCES, CONNECTIONS, ETC., REQUIRED FOR A FULLY FUNCTIONAL INSTALLATION. SUBSTITUTING CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL RELATED COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING RELATED COSTS OF OTHER TRADES OR ALTERATION COSTS TO ADAPT ANOTHER'S INSTALLED WORK.

CONSTRUCTION PREMISES:

1. PROVIDE TEMPORARY FENCING AND PROTECTIONS AS REQUIRED BY THE NATIONAL, FEDERAL, STATE, REGIONAL, LOCAL, AND MUNICIPAL AUTHORITIES HAVING JURISDICTION.
2. PROTECT ALL EXISTING SITE ELEMENTS TO REMAIN FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. REPAIR OR REPLACE TO THE SATISFACTION OF THE OWNER, ALL ELEMENTS DAMAGED DURING THE PROJECT.
3. KEEP PREMISES IN A BROOM SWEPT FINISH CONDITION DURING ALL PHASES OF THE CONSTRUCTION. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP AND DISPOSING OF THEIR DEBRIS AND WASTE MATERIALS ON A REGULAR BASIS AND LEAVE THE PROJECT IN A BROOM SWEPT FINISH CONDITION UPON COMPLETION OF THEIR PORTION OF THE WORK.
4. CLEAN AND WASH ALL WINDOW GLASS, MIRRORS, FLOORS AND WALL TILES UPON COMPLETION OF THE PROJECT.

MISCELLANEOUS:

1. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MOLECULAR BREAKDOWN.
2. REFER TO DRAWINGS OF ALL DISCIPLINES FOR EQUIPMENT REQUIRING CONCRETE EQUIPMENT PADS. PROVIDE SUCH PADS, COORDINATING THEIR SIZES AND LOCATIONS. REVIEW LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. COMPLETELY CONNECT ALL EQUIPMENT AND PROVIDE ALL NECESSARY APPENDAGES. COMPLETED SYSTEMS SHALL BE FULLY OPERATIONAL.

PROJECT CODE MATRIX		
ITEM	ISSUE	DATA
PART 1 - ZONING REQUIREMENTS		
1.02	LOT AREA	8.14
1.03	PARCEL ID(S)	44008011060002,44008011093000
1.04	TOTAL BUILDING AREA	32000 SF
1.05	BUILDING HEIGHT - NO. OF FLOORS	2
1.06	BUILDING CODE	MICHIGAN BUILDING CODE 2015

0' 2' 4' 8' 16'

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

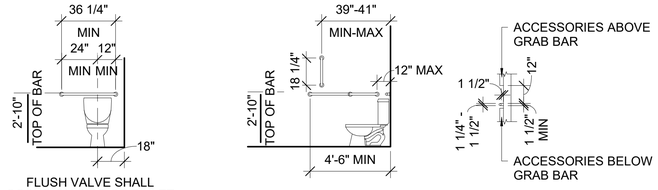
DATE: 12/30/2024

PROJECT INFORMATION & NOTES

A001

SCALE 1/4" = 1'-0"

GRAB BAR DIAGRAMS



FLUSH VALVE SHALL OCCUR ON SIDE OF TOILET WITH SPACE

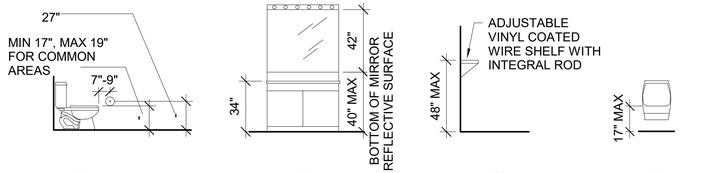
(A)
DWELLING UNIT WATER CLOSET FOR IAC COMMON/PUBLIC ACCESSIBLE TOILET

(B)
TYPICAL GRAB BAR DIAGRAM

NOTES:

1. ALL GRAB BARS AND BLOCKING SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY CODES, STANDARDS, AND LAWS.
2. BLOCKING SHALL BE INSTALLED AT TIME OF INITIAL CONSTRUCTION.
3. GRAB BARS SHALL BE PROVIDED AT COMMON/PUBLIC ACCESSIBLE TOILETS.
4. GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.
5. GRAB BARS SHALL NOT ROTATE WITHIN THE FITTINGS.
6. STRUCTURAL STRENGTH OF MATERIALS, FASTENERS, MOUNTING DEVICES, AND SUPPORTING STRUCTURES SHALL RESIST A SINGLE FORCE OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICES, OR SUPPORTING STRUCTURES.

TYPICAL FIXTURE DIMENISONS



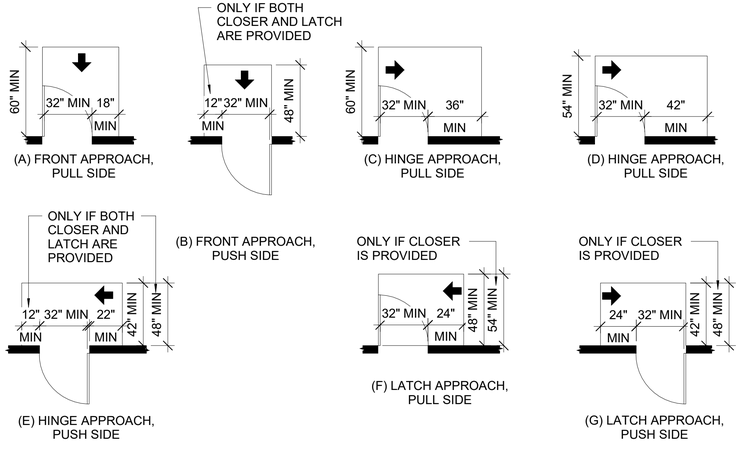
(A)
TYPICAL WATER CLOSET AND TOILET PAPER DISPENSER

(B)
TYPICAL LAVATORY AND MIRROR LOCATIONS

(C)
TYPICAL WIRE SHELF AND ROD

(D)
TYPICAL URINAL

DOOR MANEUVERING DIAGRAMS



(A) FRONT APPROACH, PULL SIDE

(B) FRONT APPROACH, PUSH SIDE

(C) HINGE APPROACH, PULL SIDE

(D) HINGE APPROACH, PULL SIDE

(E) HINGE APPROACH, PUSH SIDE

(F) LATCH APPROACH, PULL SIDE

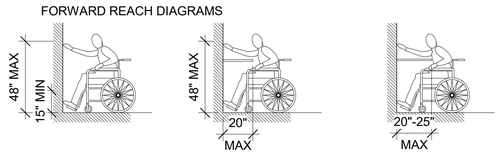
(G) LATCH APPROACH, PUSH SIDE

NOTES

1. VERTICAL DIMENSIONS FOR BUILT-IN ACCESSORIES, CHASEWORK, COUNTERS, ELECTRICAL DEVICES, ELEMENTS, FEATURES, HARDWARE, PLUMBING FIXTURES, SIGNAGE, THERMOSTATS, ETC. REQUIRED TO BE IN COMPLIANCE WITH ACCESSIBILITY LAWS AND STANDARDS SHALL BE MEASURED FROM TOP OF FINISH FLOORING MATERIALS.

REACH RANGE DIAGRAMS

FORWARD REACH DIAGRAMS

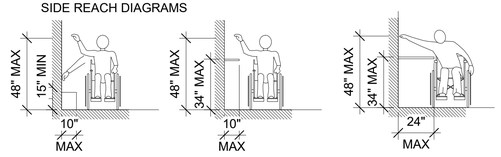


UNOBSTRUCTED FORWARD REACH

OBSTRUCTED HIGH FORWARD REACH

OBSTRUCTED HIGH FORWARD REACH

SIDE REACH DIAGRAMS

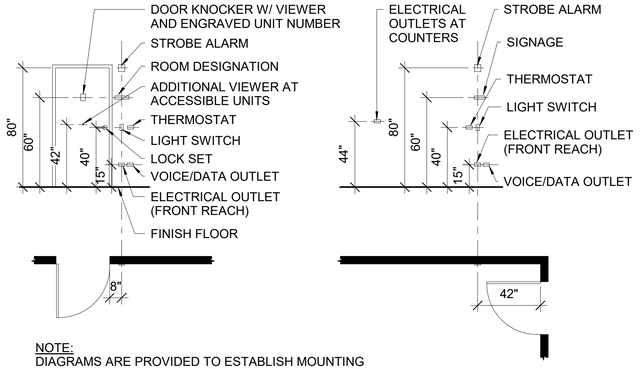


UNOBSTRUCTED SIDE REACH

OBSTRUCTED SIDE REACH

OBSTRUCTED HIGH SIDE REACH

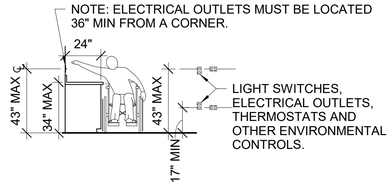
MOUNTING HEIGHT DIAGRAMS



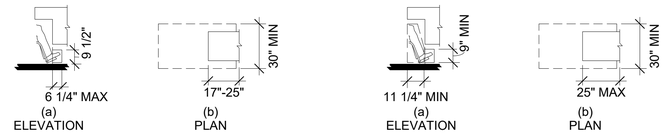
NOTE:
DIAGRAMS ARE PROVIDED TO ESTABLISH MOUNTING HEIGHTS. SEE CONSTRUCTION DOCUMENTS FOR ACTUAL EQUIPMENT DESIGN, MODEL NO. AND PLAN LOCATION.
DEVICE LOCATIONS AT DOORS

ENVIRONMENTAL CONTROLS DIAGRAM

CLEAR FLOOR SPACE OF 30" X 48" SHALL BE PROVIDED FOR A FORWARD OR PARALLEL APPROACH AT ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SUCH AS THERMOSTATS. FOR REACH RANGES, SEE REACH RANGE DIAGRAM. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.



TOE AND KNEE CLEARANCE DIAGRAMS



(a)
ELEVATION

(b)
PLAN

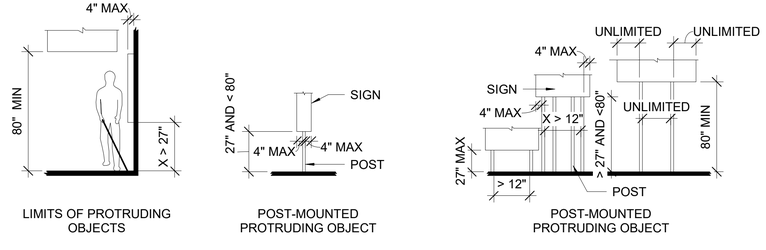
TOE CLEARANCE

(a)
ELEVATION

(b)
PLAN

KNEE CLEARANCE

PROTRUDING OBJECTS DIAGRAMS

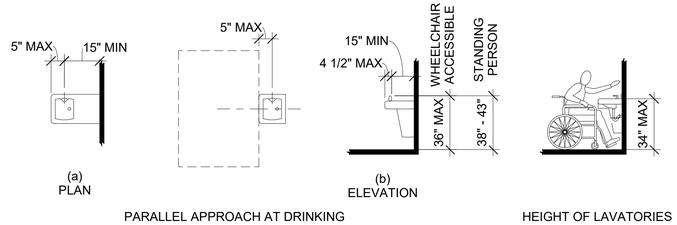


LIMITS OF PROTRUDING OBJECTS

POST-MOUNTED PROTRUDING OBJECT

POST-MOUNTED PROTRUDING OBJECT

LAVATORY AND DRINKING FOUNTAIN CLEARANCE DIAGRAMS



(a)
PLAN

(b)
ELEVATION

PARALLEL APPROACH AT DRINKING FOUNTAINS PRIMARILY FOR CHILDRENS USE (EXCEPTION 2)

HEIGHT OF LAVATORIES AND SINKS

RCD

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

ACCESSIBILITY DIAGRAMS

A002

SCALE 1/4" = 1'-0"

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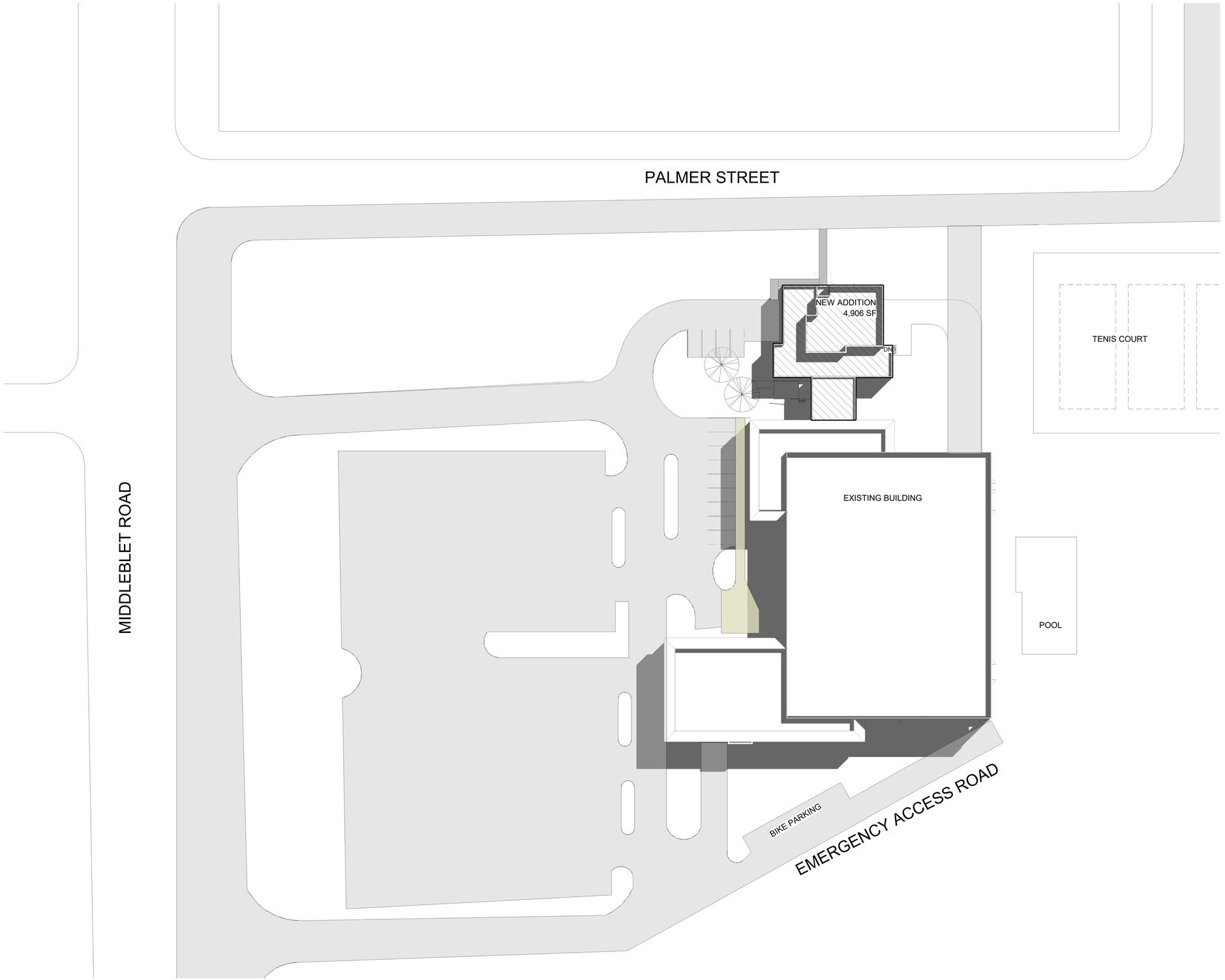

1 SITE PLAN
1" = 30'-0"

0' 2' 4' 8' 16'

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

SITE PLAN

A100

SCALE 1" = 30'-0"

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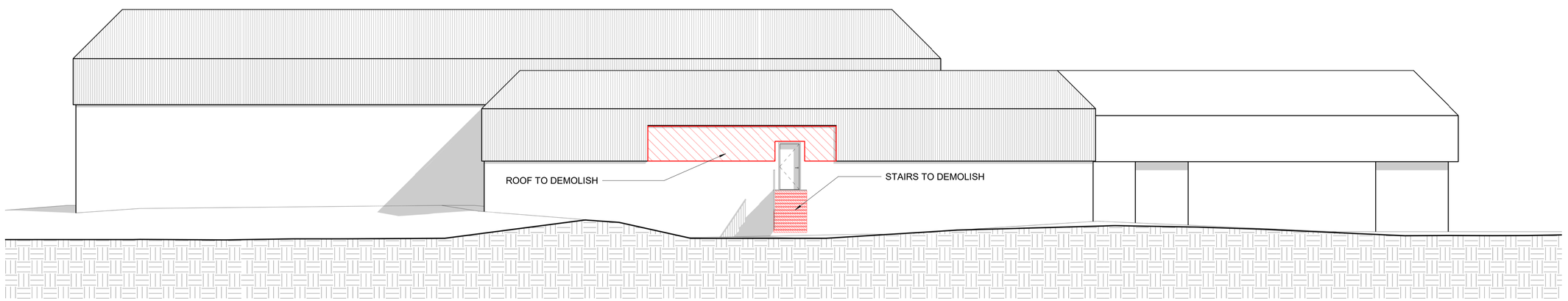
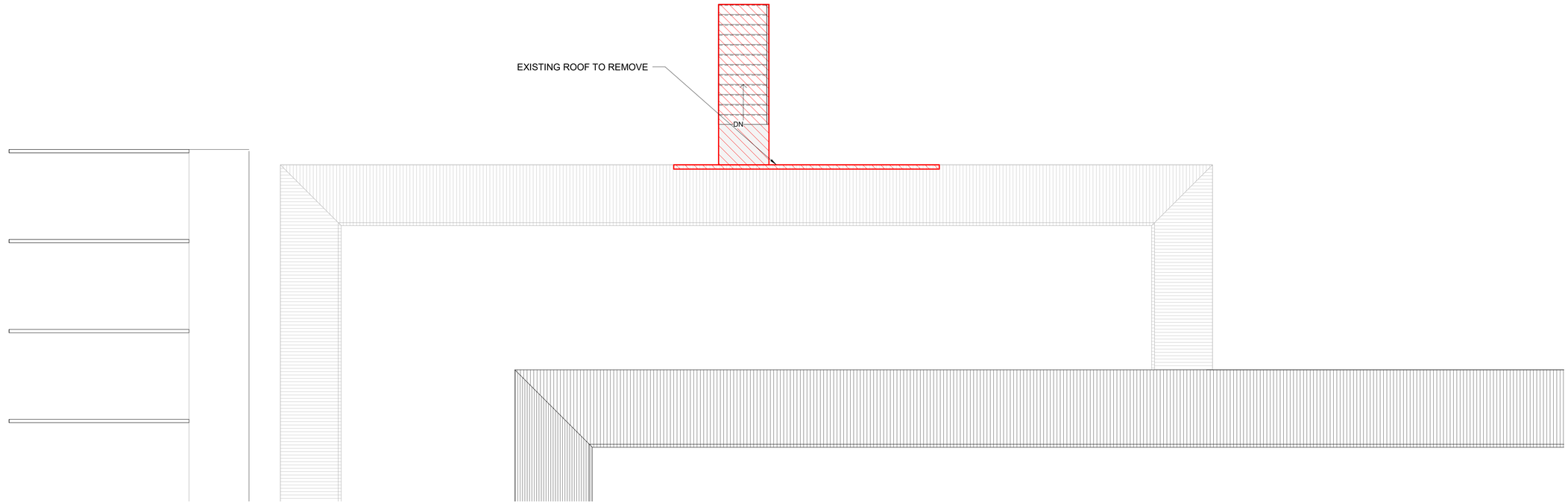


② NORTH ELEVATION DEMOLITION
1/8" = 1'-0"



① ROOF DEMOLITION PLAN
3/16" = 1'-0"

25 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

ROOF PLAN DEMO

A101

SCALE As indicated

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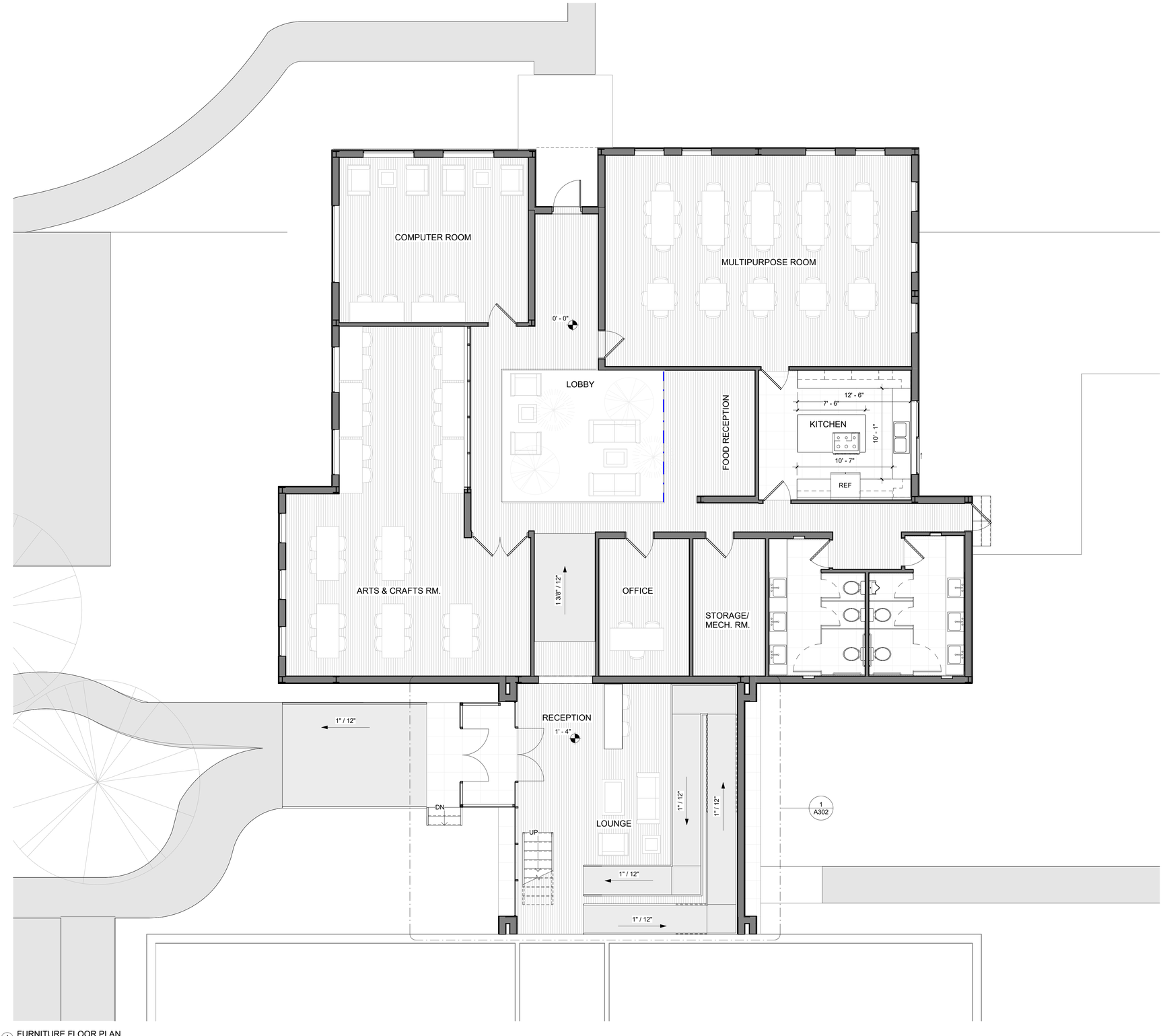


1 FURNITURE FLOOR PLAN
3/16" = 1'-0"

FINISH FLOOR LEGEND

- LUXURY VINYL TILE (PLANK)
- TILE FLOORING

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

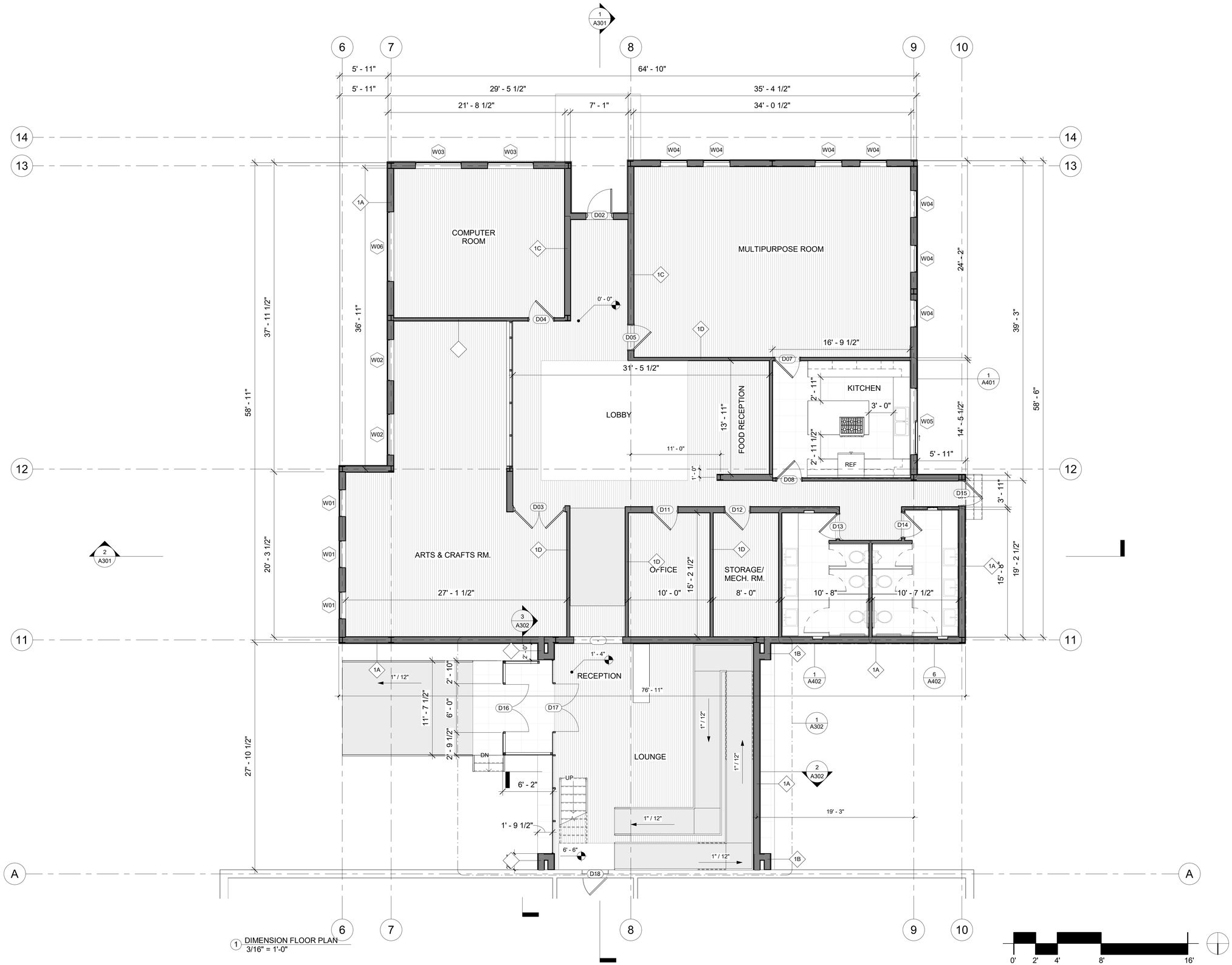
DRAWN BY: I. THOMPSON

DATE: 12/30/2024

FLOOR PLAN

A102

SCALE As indicated



1 DIMENSION FLOOR PLAN
3/16" = 1'-0"

0' 2' 4' 8' 16'

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

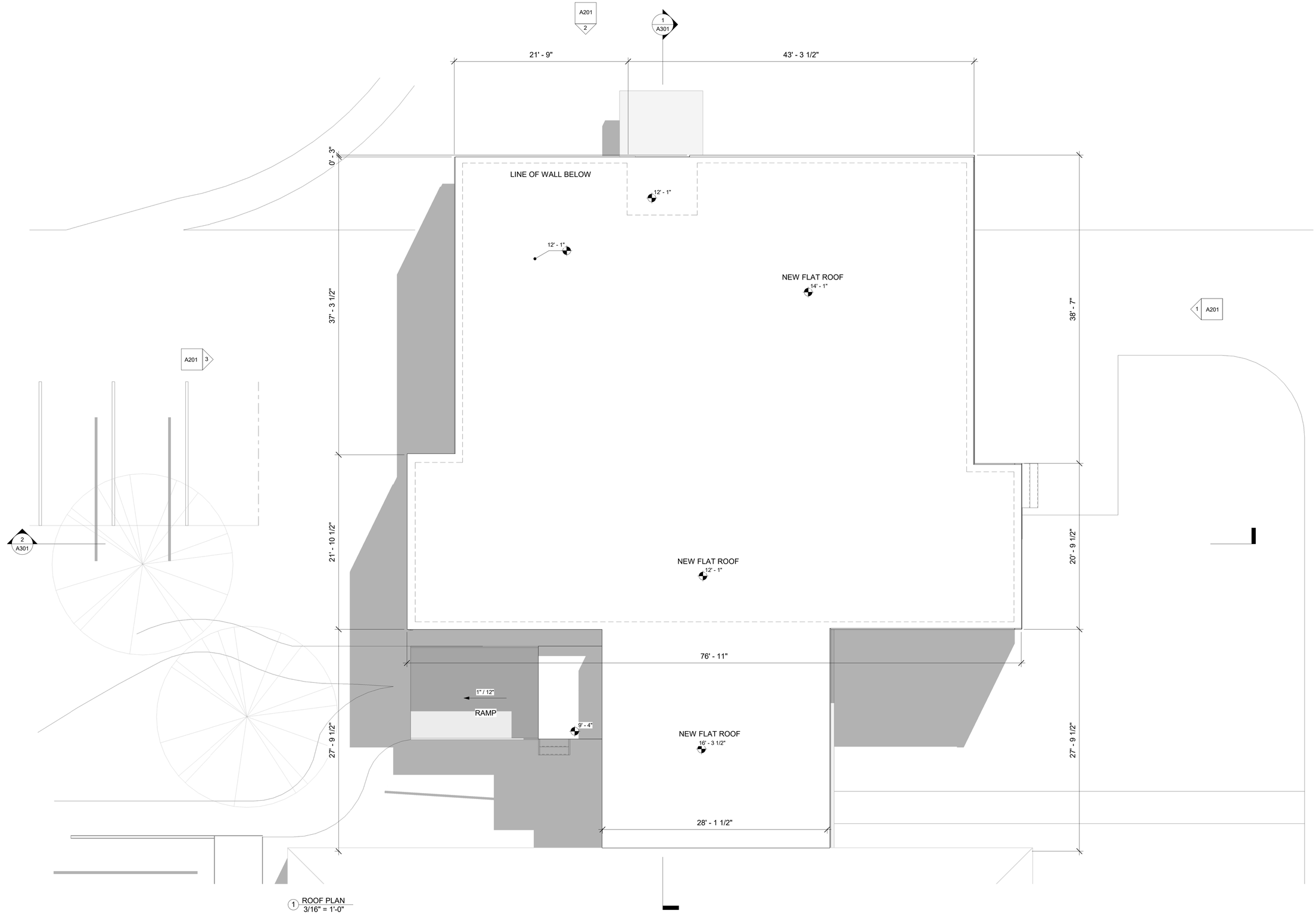
DRAWN BY: I. THOMPSON

DATE: 12/30/2024

DIMENSION FLOOR PLAN

A103

SCALE 3/16" = 1'-0"



1 ROOF PLAN
3/16" = 1'-0"

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

ROOF PLAN

A104

SCALE 3/16" = 1'-0"

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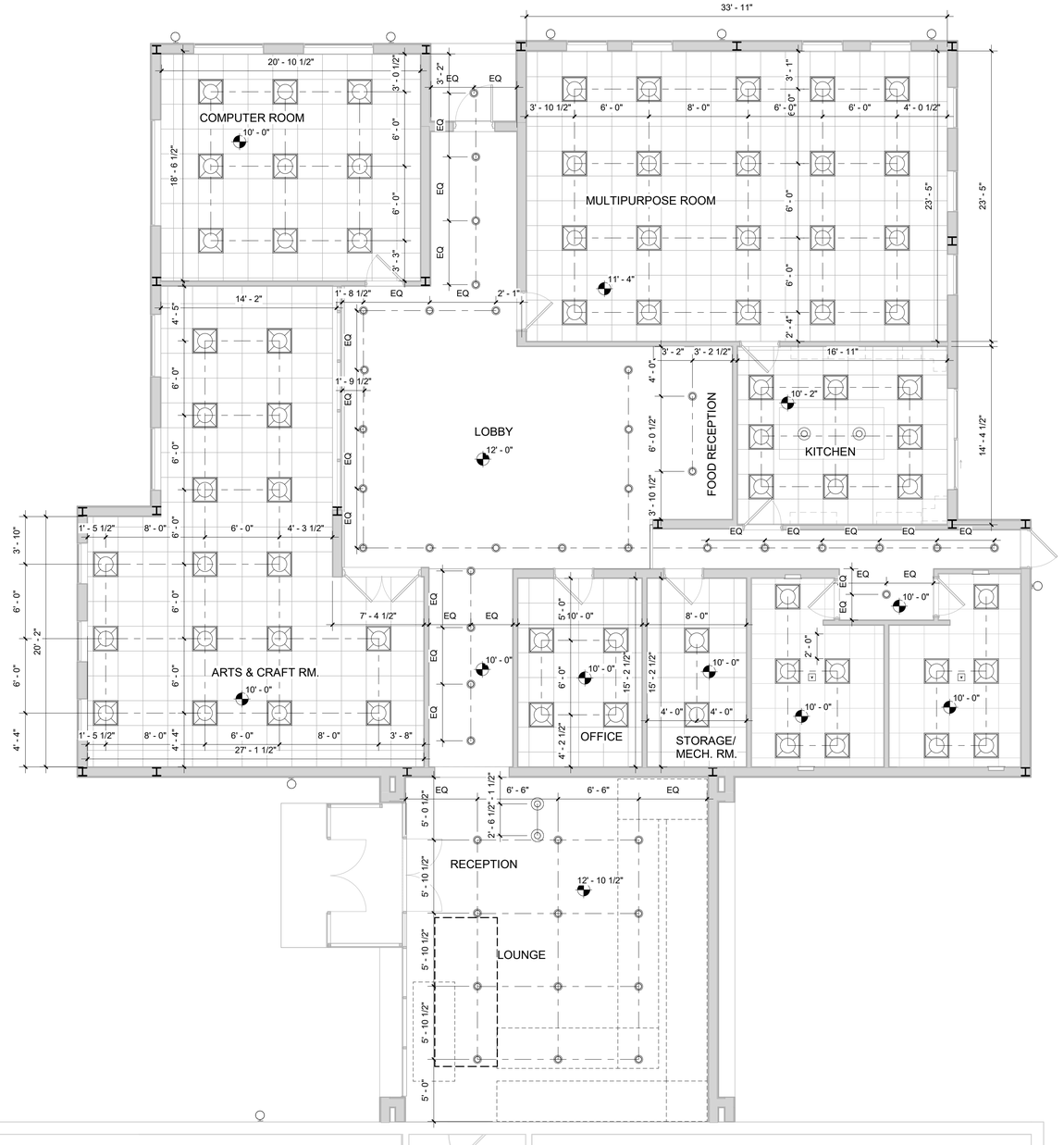

1 RCP NEW ADDITION
3/16" = 1'-0"

MEP SYMBOL LEGEND LEGEND	
	4" RECESSED LIGHTING
	12" PENDANT LIGHTING
	WALL SCONCE
	UNDER CABINET LIGHT
	2' x 2' RECESSED LIGHTING FOR DROP CEILING
	VENT FAN
	DUPLEX OUTLET
GFI	GFCI OUTLET
REF	REFRIGERATOR OUTLET
WP	WATER PROOF OUTLET
$	SWITCH

0' 2' 4' 8' 16'

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

RCP PLAN

A105

SCALE As indicated

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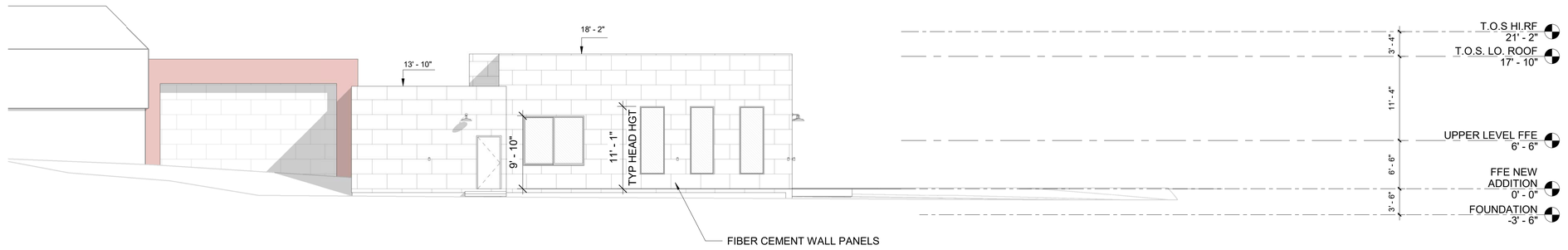
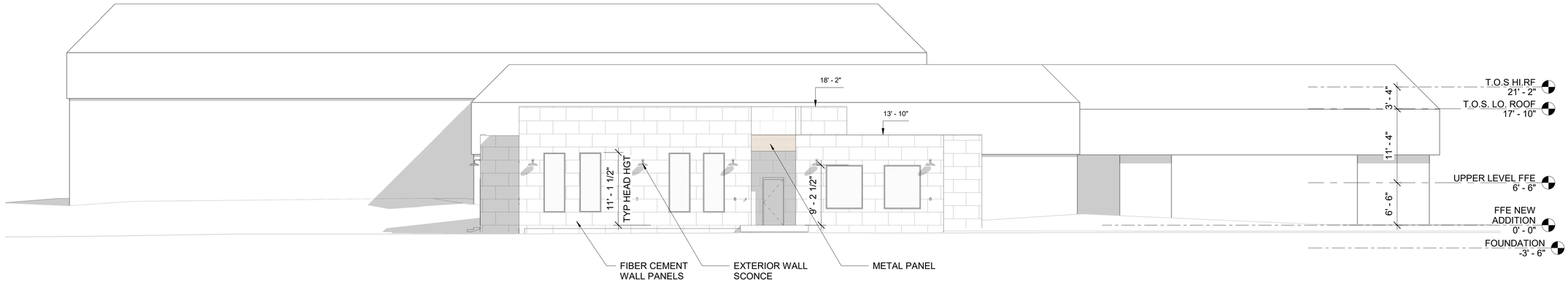
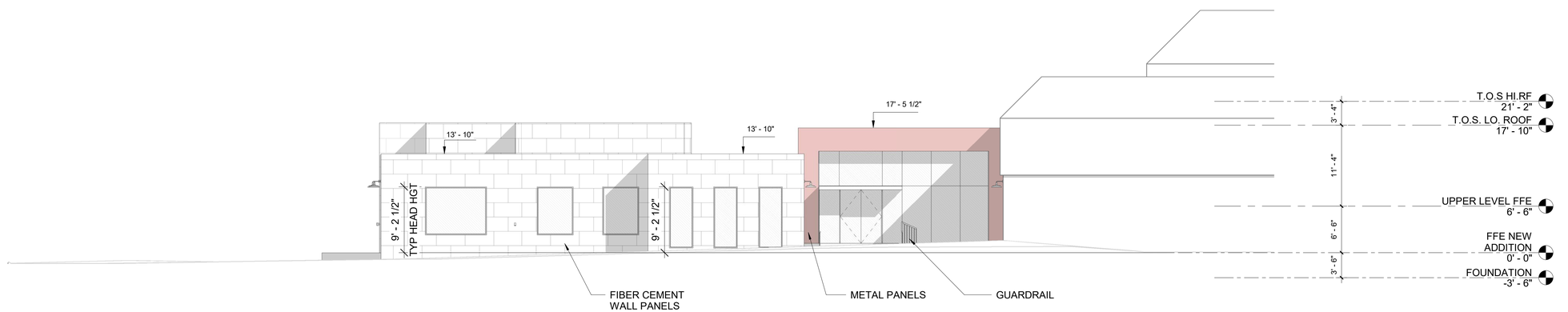


1 BUILDING ELEVATION - EAST
1/8" = 1'-0"



2 BUILDING ELEVATION - NORTH
1/8" = 1'-0"



3 BUILDING ELEVATION - WEST
1/8" = 1'-0"

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

BUILDING ELEVATIONS

A201

SCALE 1/8" = 1'-0"

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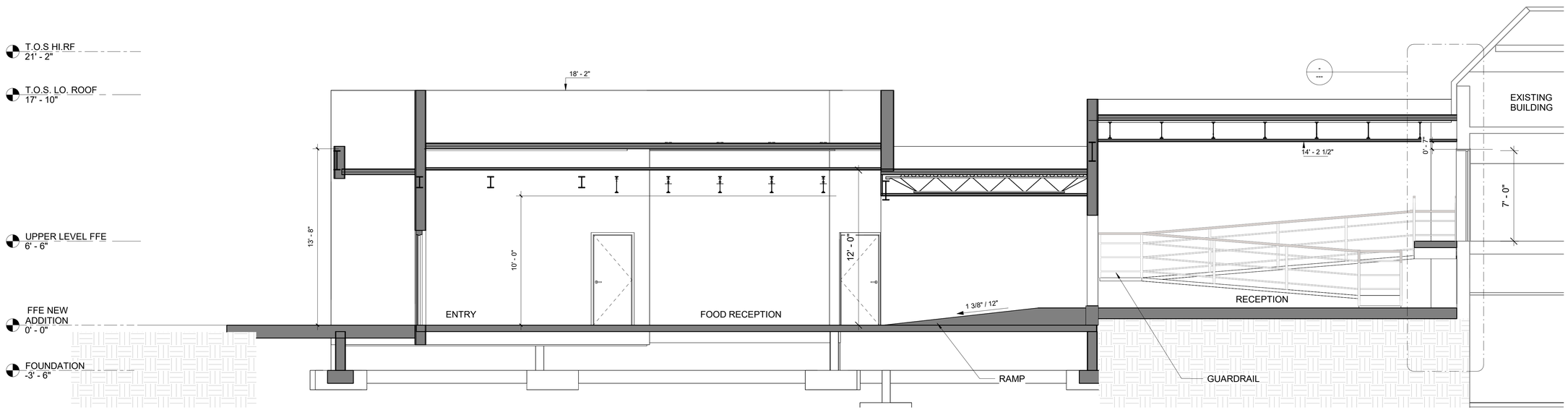
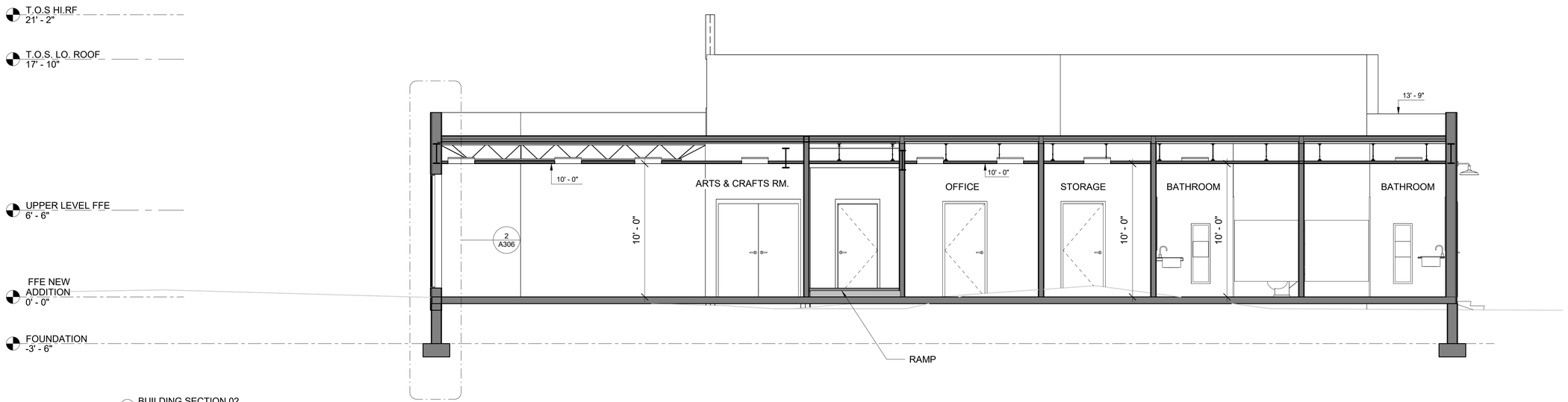


1 BUILDING SECTION 01
1/4" = 1'-0"



2 BUILDING SECTION 02
1/4" = 1'-0"

25 MIDDLEBELT ROAD
INKSTER, MI 48141

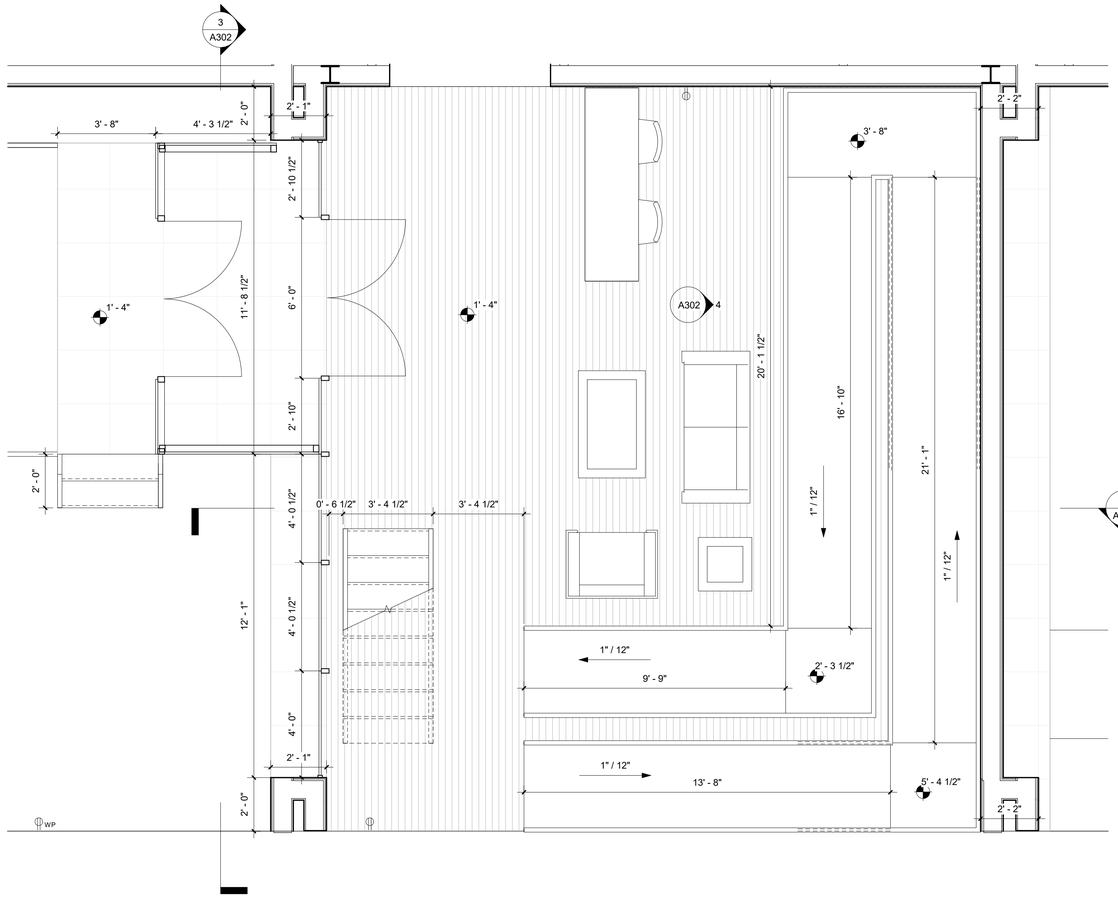
DRAWN BY: I. THOMPSON

DATE: 12/30/2024

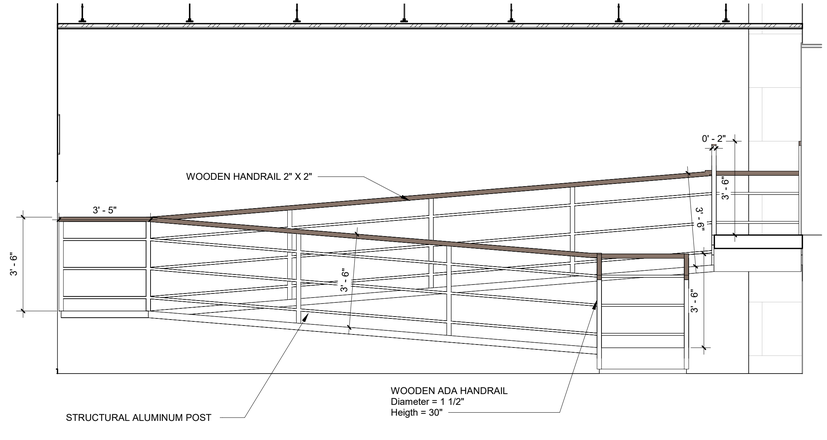
BUILDING SECTIONS

A301

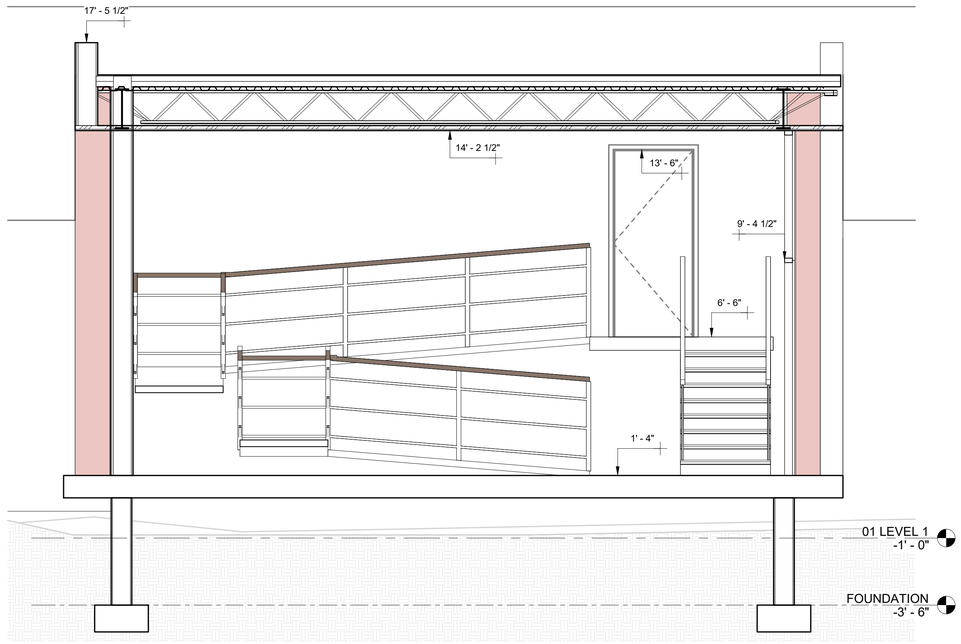
SCALE 1/4" = 1'-0"



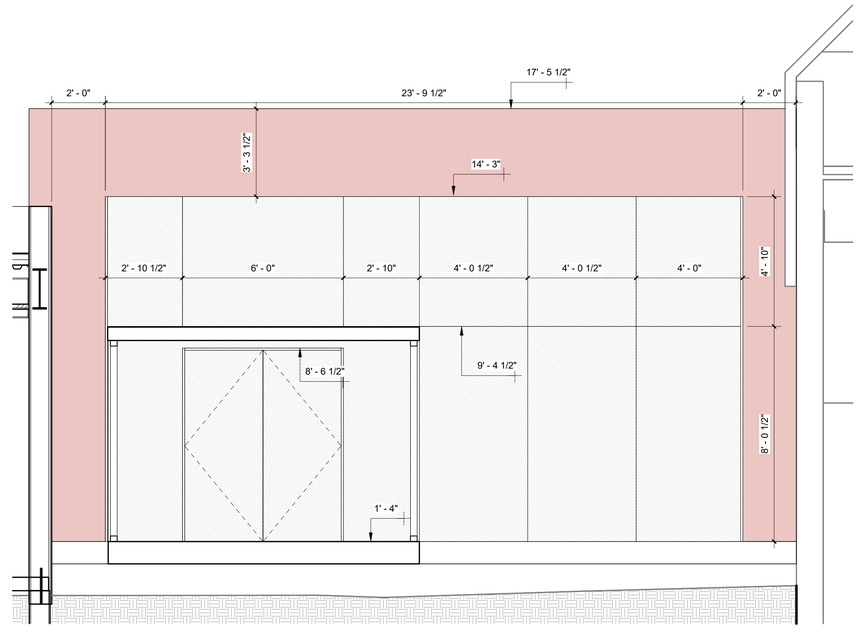
1 RECEPTION DETAIL FLOOR
3/8" = 1'-0"



4 DETAIL RAMP RAILING
3/8" = 1'-0"



2 SECTION RECEPTION
3/8" = 1'-0"



3 MAIN ENTRANCE ELEVATION
3/8" = 1'-0"

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

RECEPTION DETAIL

A302

SCALE 3/8" = 1'-0"

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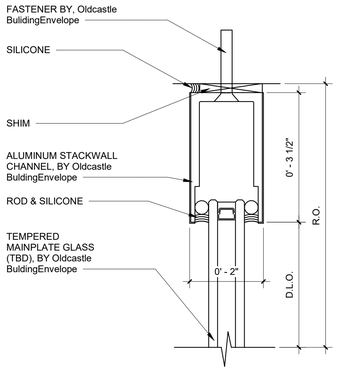
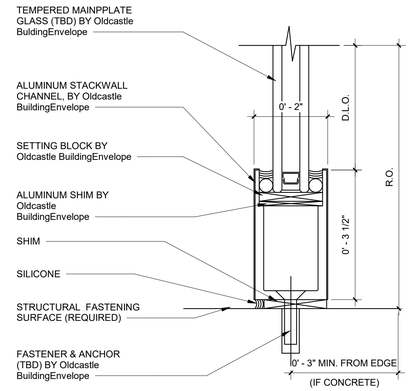
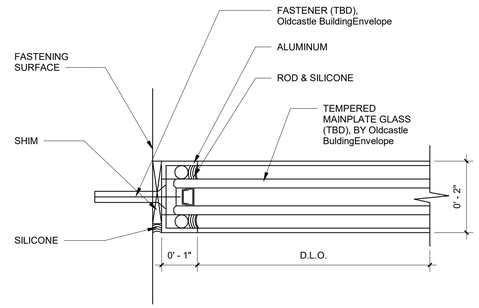
CURTAIN WALL DETAILS



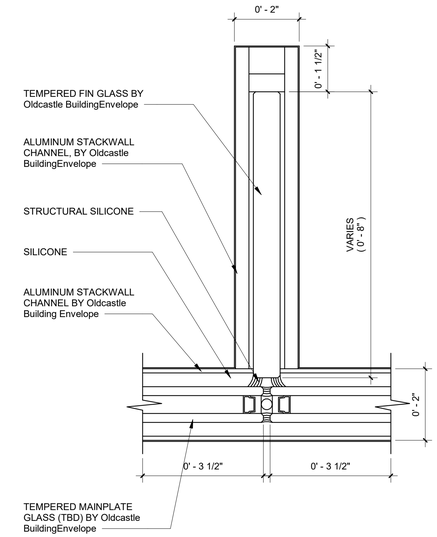
MAINPLATE HEAD
SCALE: 3" = 1'-0"



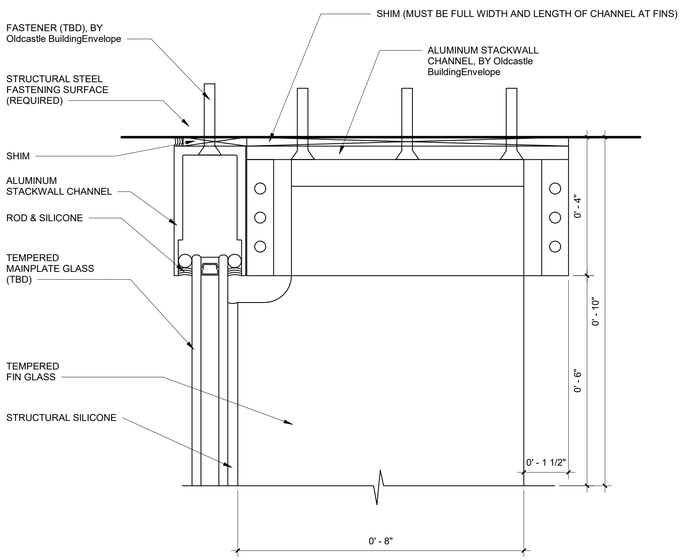
MAINPLATE SILL
SCALE: 3" = 1'-0"



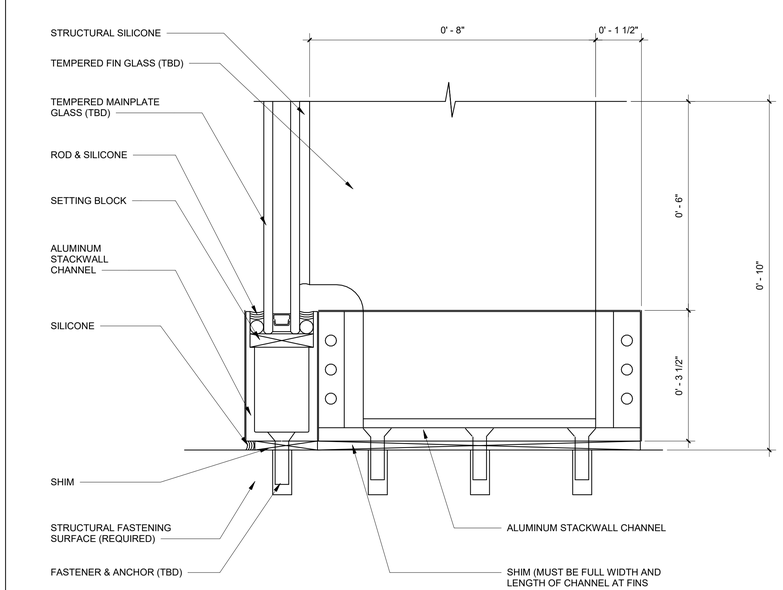
MAINPLATE JAMB
SCALE: 3" = 1'-0"



MAINPLATE JOINT
SCALE: 3" = 1'-0"

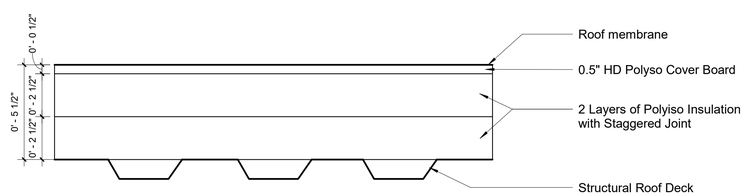


MAINPLATE AT FIN HEAD
SCALE: 3" = 1'-0"



MAINPLATE AT FIN HEAD
SCALE: 3" = 1'-0"

ROOF DETAIL



ROOF DETAIL
SCALE: 3" = 1'-0"

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

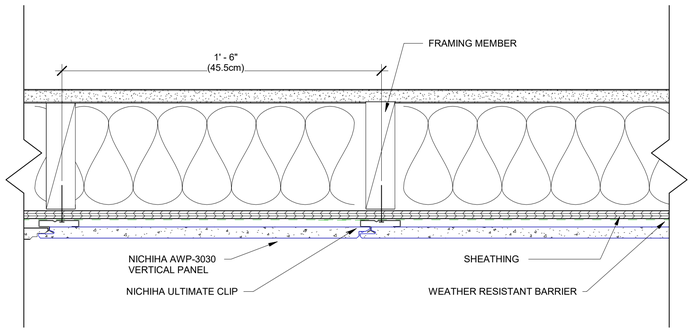
DATE: 12/30/2024

CURTAIN WALL

A303

SCALE As indicated

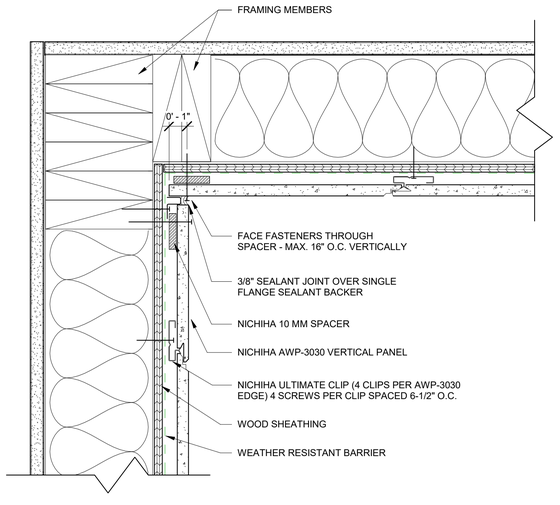
METAL PANELS DETAILS NICHIHA AWP-3030 VERTICAL



NICHIHA AWP-3030 VERTICAL - CUSTOM STUD SPACING
SCALE: 3" = 1'-0"

NOTES:

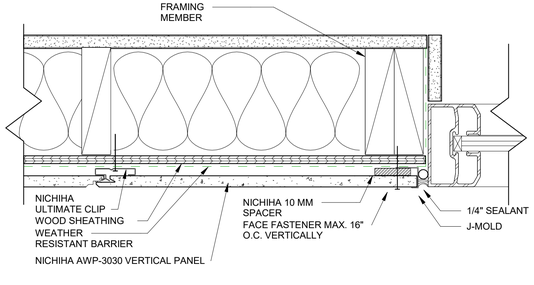
1. FOR THIS APPLICATION ONLY USE NICHIHA AWP-3030 PANEL SET VERTICALLY WITH JEL778 CLIPS.
2. FOLLOW WEATHER RESISTANT BARRIER BEST PRACTICES INSTRUCTIONS.



NICHIHA AWP-3030 VERTICAL - INSIDE CORNER
SCALE: 3" = 1'-0"

NOTES:

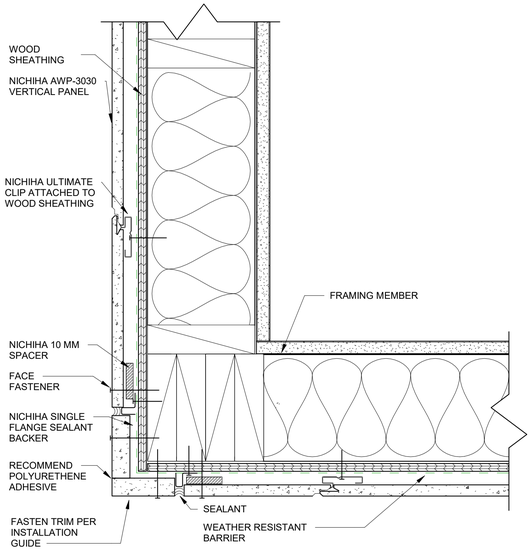
1. FOR THIS APPLICATION ONLY USE NICHIHA AWP-3030 PANEL SET VERTICALLY WITH JEL778 CLIPS.
2. J-MOLD POSITIONING REFER TO THE WINDOW MANUFACTURER INSTRUCTIONS REGARDING TRIM ATTACHMENTS



NICHIHA AWP-3030 VERTICAL - FLUSH WINDOW JAMB WITH J-MOLD
SCALE: 3" = 1'-0"

NOTES:

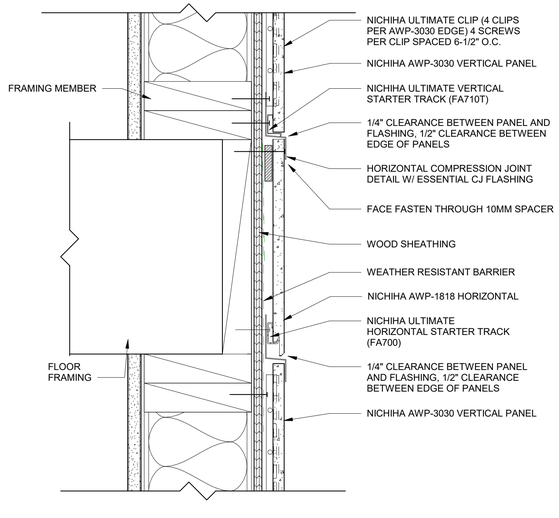
1. FOR THIS APPLICATION ONLY USE NICHIHA AWP-3030 PANEL SET VERTICALLY WITH JEL778 CLIPS.



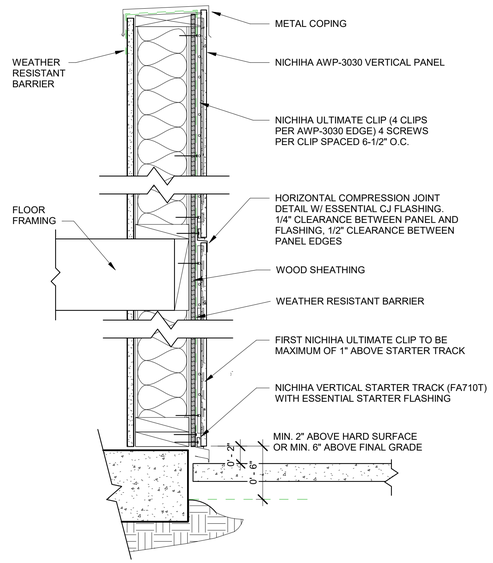
NICHIHA AWP-3030 VERTICAL - OUTSIDE CORNER - TRIM BOARD
SCALE: 3" = 1'-0"

NOTES:

1. WOOD OR METAL FRAMING (METAL FRAMING MEMBERS MUST BE A MINIMUM OF 18 GA.)
2. FOR THIS APPLICATION ONLY USE NICHIHA AWP-3030 PANEL SET VERTICALLY WITH JEL778 CLIPS.
3. DISTANCE BETWEEN EDGES OF PANELS SHOWN MUST BE A MINIMUM OF 1/2" CLEARANCE.
4. DO NOT SPAN FLOOR LINES WITH VERTICAL PANELS.
5. FOLLOW WEATHER RESISTANT BARRIER BEST PRACTICES INSTRUCTIONS.



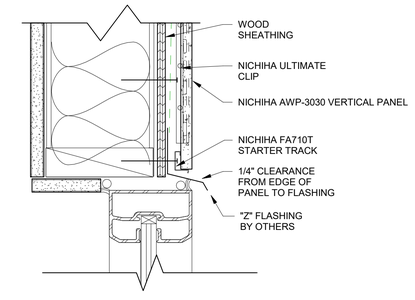
NICHIHA AWP-3030 VERTICAL WITH HORIZONTAL AWP BAND - HORIZONTAL TRANSITION JOINTS
SCALE: 3" = 1'-0"

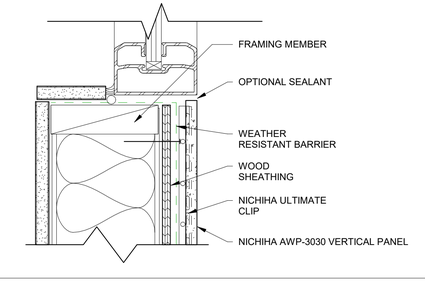


NICHIHA - AWP-3030 VERTICAL - STUD WALL - FULL SECTION - PARAPET
SCALE: 1 1/2" = 1'-0"

NOTES:

1. FASTEN STARTER TRACK TO STRUCTURAL FRAMING ONLY.





NICHIHA AWP-3030 VERTICAL - FLUSHED WINDOW HEADER & SILL WITH FLASHING
SCALE: 3" = 1'-0"

NOTES:

1. THIS CONCEPTUAL DETAIL IS A GUIDE FOR INSTALLATION OF NICHIHA PRODUCTS. ARCHITECTS/ENGINEERS/CONTRACTORS ARE RESPONSIBLE FOR SUCCESSFUL APPLICATION WHICH DEPENDS UPON SUBSTRATE DESIGN AND CONSTRUCTION BUILT IN ACCORDANCE WITH BEST PRACTICES AND LOCAL BUILDING CODES.
2. FOR THIS APPLICATION ONLY USE NICHIHA AWP-3030 PANEL SET VERTICALLY WITH JEL778 CLIPS.
3. SHEATHING (7/16" OR THICKER APA RATED OSB OR PLYWOOD REQUIRED).
4. WOOD OR METAL FRAMING (METAL FRAMING MEMBERS MUST BE A MINIMUM OF 18 GA.)

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

PANEL DETAILS

A304

SCALE As indicated

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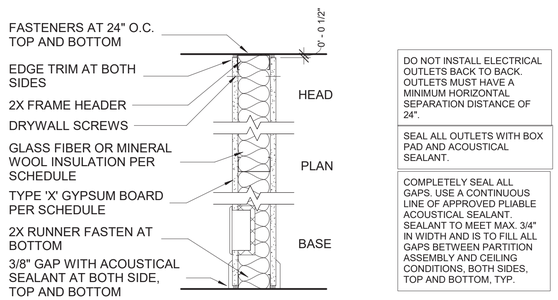
1 PARTITION



TAG	STUD SIZE	STUD SPACING	FIRE RATING	INSULATION	STC RATING	WIDTH	COMMENTS
1A	8"x20GA	16" O.C.	ULW42	8" INSULATION	--	9.5"	3/4"Ultra-Shield FS Gypsum each side
1B	3 5/8"x20GA	16" O.C.	UNRATED	--	--	4.25"	5/8" Ultra-Shield FS Gypsum exterior face only
1C	8"x22GA	16" O.C.	1 HR U465	--	--	9.25"	5/8" Fire Rated Gypsum each side
1D	3 5/8"x22GA	16" O.C.	1 HR U465	--	--	4.875"	5/8" Fire Rated Gypsum each side
1E	6"x22GA	16" O.C.	2 HR U525	--	--	3.5"	1" Fire Rated Gypsum each side
1F	L1"x2 1/4 25GA	16" O.C.	2 HR U525	--	--	2"	1" Shafliner XP between 1/2" Fire-Shield C Gypsum each side

PARTITION LEGEND
1 1/2" = 1'-0"

STER RECREATION CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

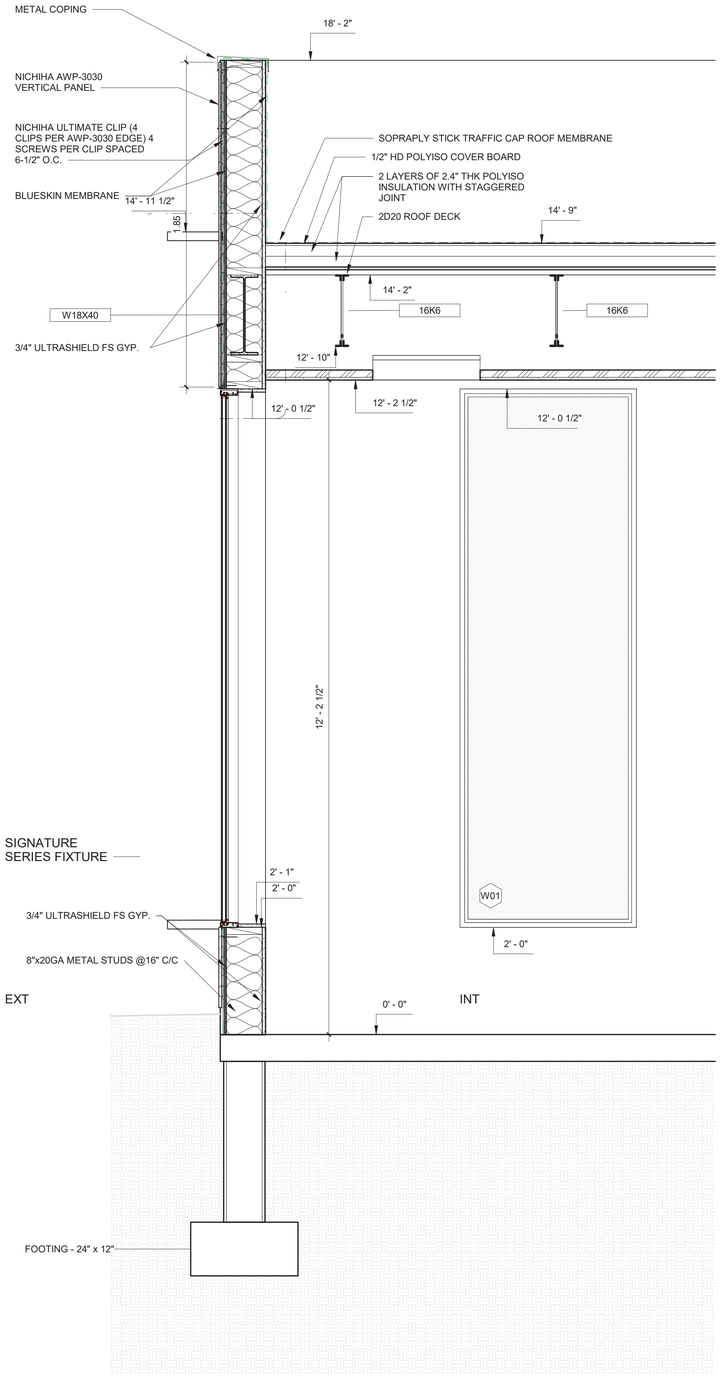
DRAWN BY: Author

DATE: 12/30/2024

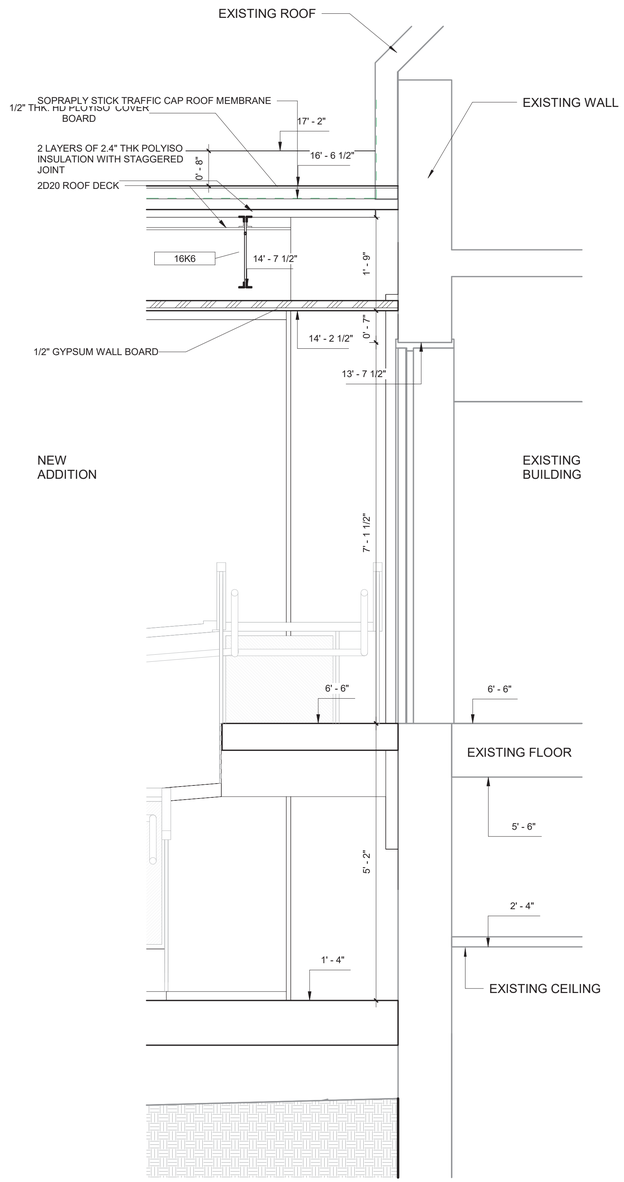
PARTITION LEGEND

A305

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



1 DETAIL SECTION OF CONFERENCE ROOM
3/4" = 1'-0"



2 DETAIL SECTION BETWEEN NEW ADDITION AND EXISTING
3/4" = 1'-0"

INKSTER RECREATION CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

BUILDING SECTION DETAILS

A306

SCALE 3/4" = 1'-0"

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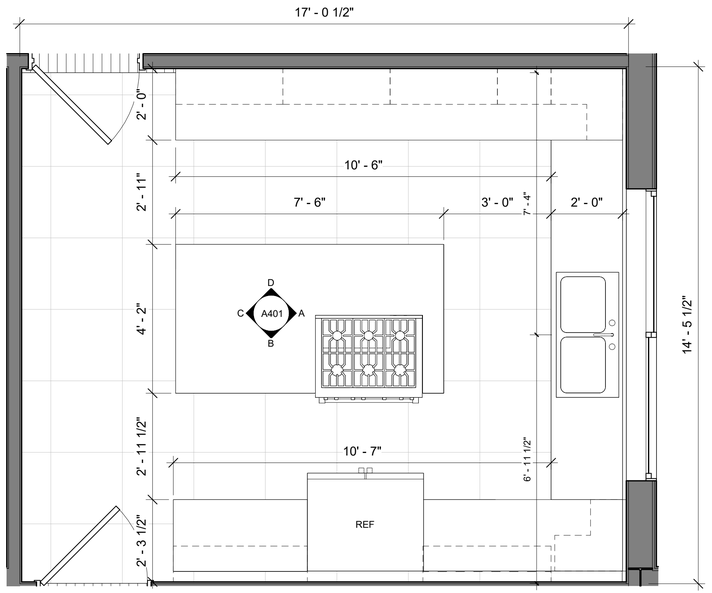
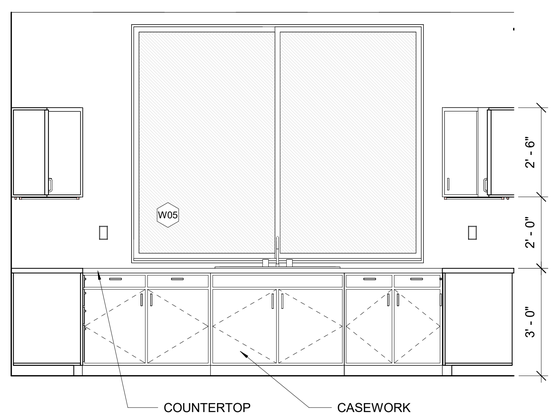
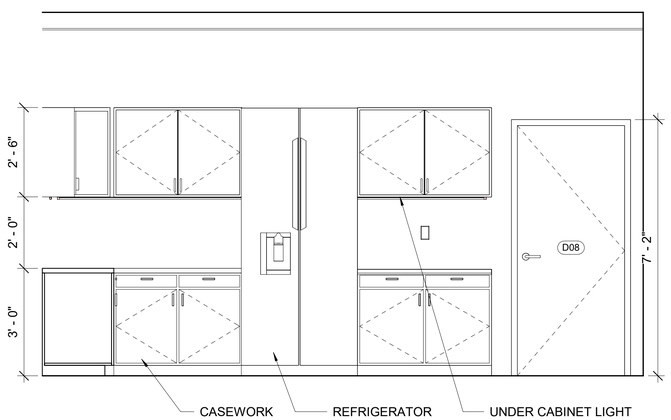


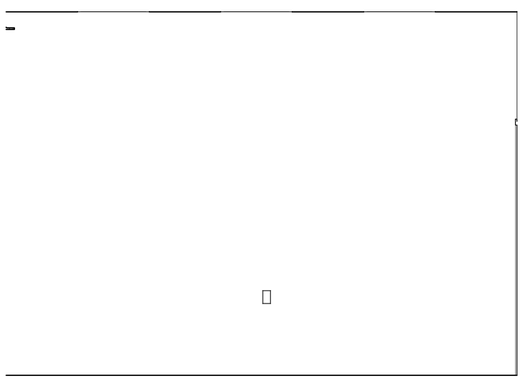
1 ENLARGE FLOOR PLAN KITCHEN
1/2" = 1'-0"



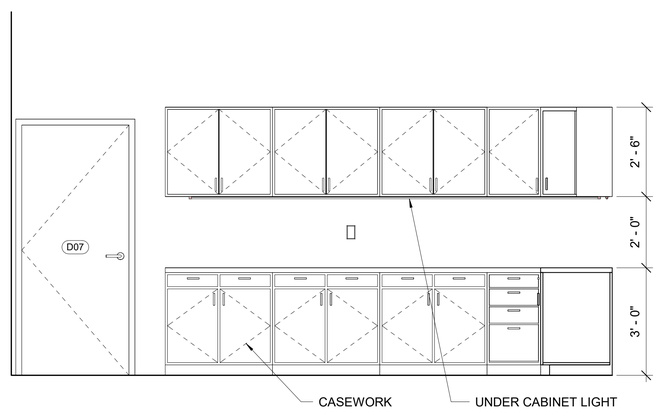
A KITCHEN - A
1/2" = 1'-0"



B KITCHEN - B
1/2" = 1'-0"



C KITCHEN - C
1/2" = 1'-0"



D KITCHEN - D
1/2" = 1'-0"

RCD

25 MIDDLEBELT ROAD
INKSTER, MI 48141

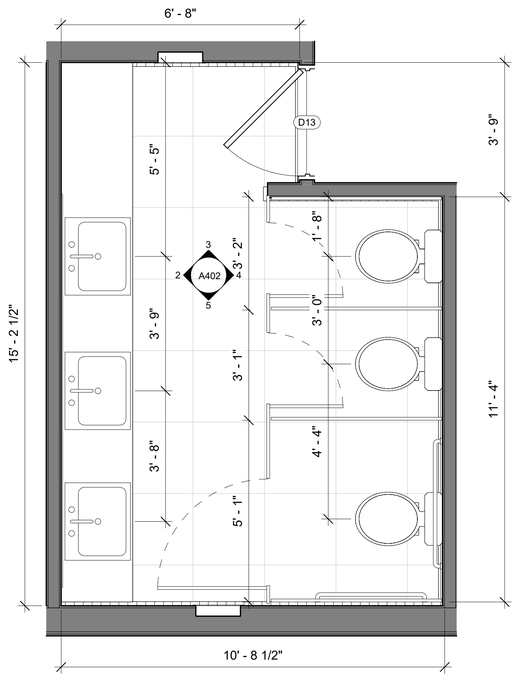
DRAWN BY: I. THOMPSON

DATE: 12/30/2024

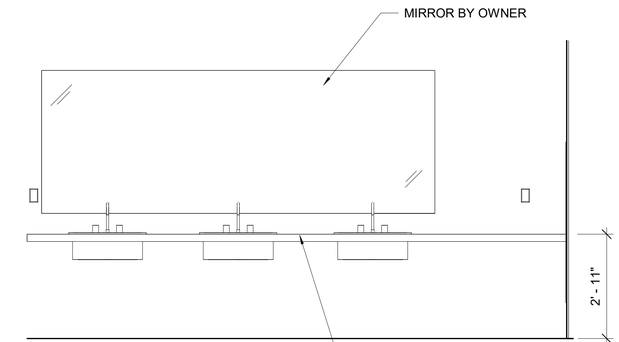
INTERIOR ELEVATIONS

A401

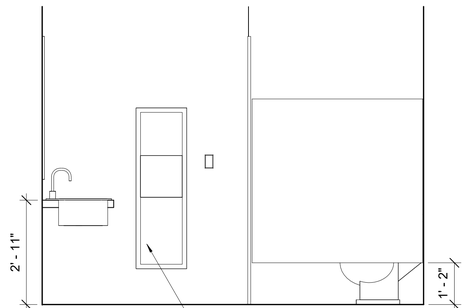
SCALE 1/2" = 1'-0"



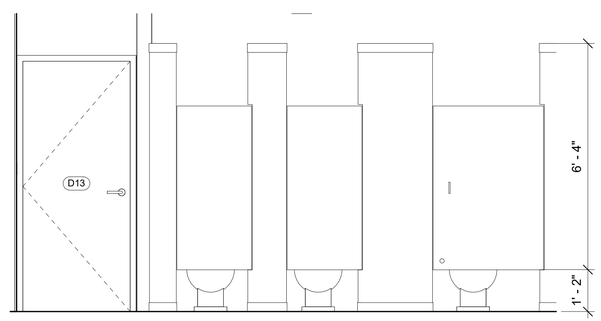
1 DETAIL PLAN - BATHROOM 01
1/2" = 1'-0"



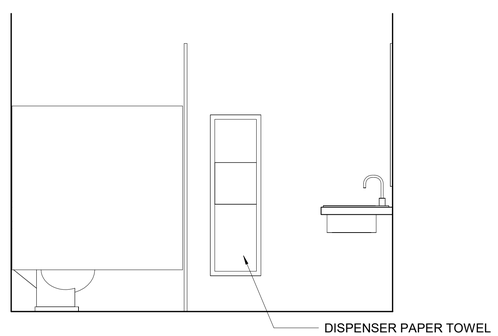
2 BATHROOM 01 - A
1/2" = 1'-0"



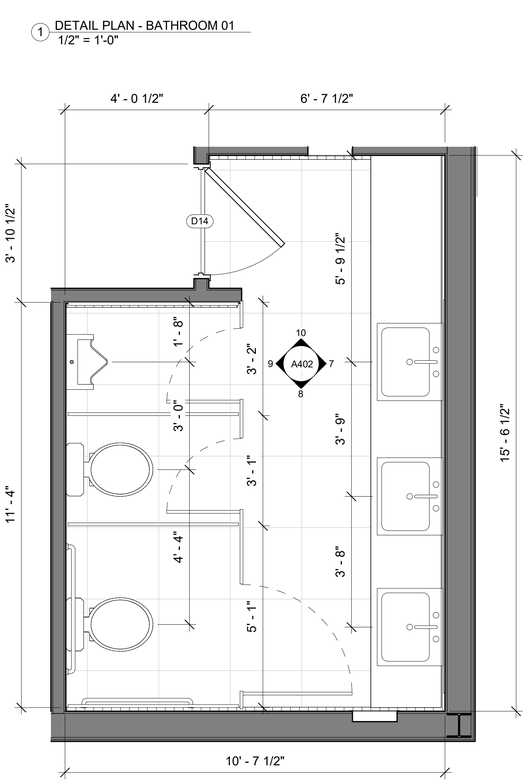
3 BATHROOM 01 - B
1/2" = 1'-0"



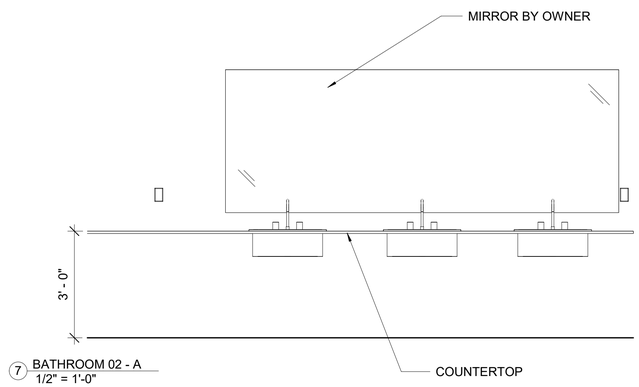
4 BATHROOM 01 - C
1/2" = 1'-0"



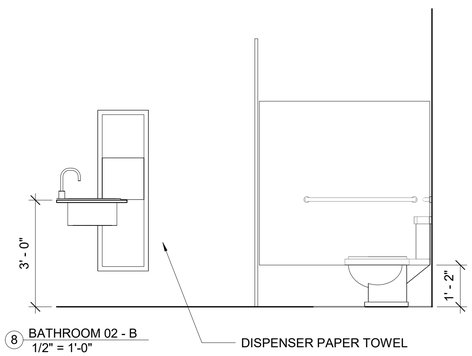
5 BATHROOM 01 - D
1/2" = 1'-0"



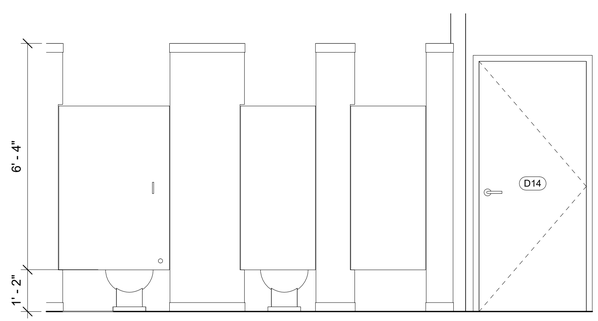
6 DETAIL PLAN - BATHROOM 02
1/2" = 1'-0"



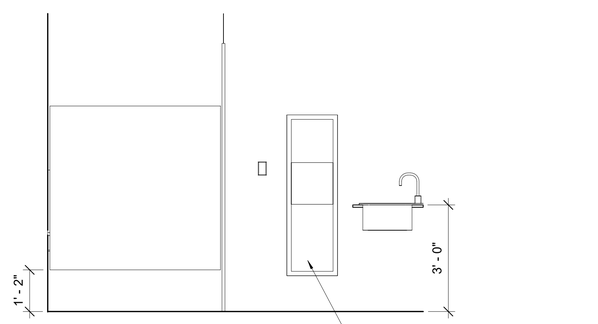
7 BATHROOM 02 - A
1/2" = 1'-0"



8 BATHROOM 02 - B
1/2" = 1'-0"



9 BATHROOM 02 - C
1/2" = 1'-0"



10 BATHROOM 02 - D
1/2" = 1'-0"

RCD

25 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

INTERIOR ELEVATIONS

A402

SCALE 1/2" = 1'-0"

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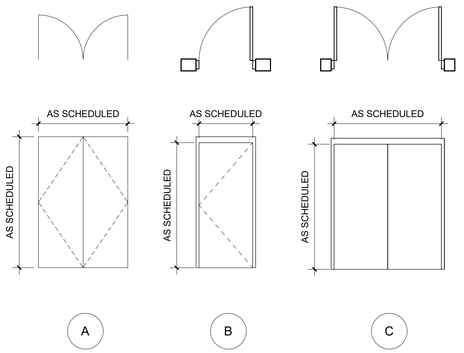
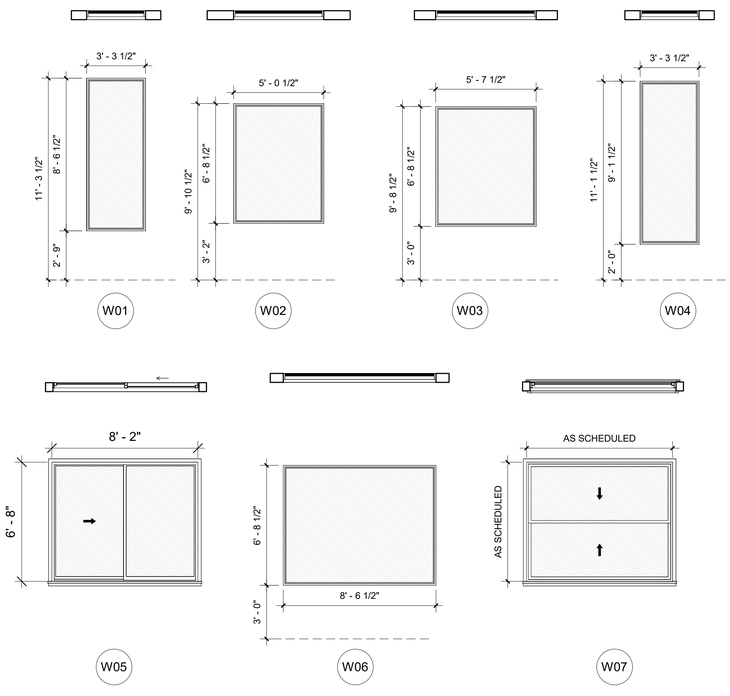
DOORS



DOOR SCHEDULE												
MARK	TYPE	DOOR HEIGHT	DOOR WIDTH	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	GLAZING	FIRE RATING	HARDWARE	NOTES
D02	B	7' - 0"	3' - 0"	0' - 2"	METAL FRAME	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D03	C	7' - 0"	6' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D04	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D05	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D07	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D08	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D11	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D12	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D13	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D14	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D15	B	7' - 0"	3' - 0"	0' - 2"	METAL FRAME	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				
D16	A	7' - 6"	5' - 10"	0' - 2"	GLASS	TRANSPARENT	METAL	SEMI GLOSS WHITE PAINT				
D17	A	7' - 2"	5' - 10"	0' - 2"	GLASS	TRANSPARENT	METAL	SEMI GLOSS WHITE PAINT				
D18	B	7' - 0"	3' - 0"	0' - 2"	SOLID CORE WOOD	SEMI GLOSS WHITE PAINT	METAL	SEMI GLOSS WHITE PAINT				

ROOM FINISH SCHEDULE							
ROOM NAME	RM #	AREA	WALL FINISH	BASE FINISH	FLOOR FINISH	CEILING FINISH	NOTES
STORAGE/MECH RM	06	122 SF	PAINTED DRYWALL	WOOD	LVT	ACT	
WOMENS BATHROOM	07	147 SF	TILE	NONE	TILE	ACT	
MENS BATHROOM	08	148 SF	TILE	NONE	TILE	ACT	
OFFICE	05	152 SF	PAINTED DRYWALL	WOOD	LVT	ACT	
RECEPTION	09	193 SF	PAINTED DRYWALL	WOOD	LVT	PAINTED DRYWALL	
KITCHEN	03	243 SF	TILE	NONE	TILE	ACT	
COMPUTER ROOM	01	383 SF	PAINTED DRYWALL	WOOD	LVT	ACT	
LOUNGE	10	488 SF	PAINTED DRYWALL	WOOD	LVT	PAINTED DRYWALL	
ARTS & CRAFTS RM.	11	768 SF	PAINTED DRYWALL	WOOD	LVT	PAINTED DRYWALL	
MULTIPURPOSE ROOM	02	794 SF	PAINTED DRYWALL	WOOD	LVT	ACT	
LOBBY	04	925 SF	PAINTED DRYWALL	WOOD	LVT	PAINTED DRYWALL	
Grand total: 11		4362 SF					

WINDOWS



WINDOW SCHEDULE									
TYPE	QTY	TYPE	WINDOW HEIGHT	WINDOW WIDTH	WINDOW SILL	GLAZING	MANUFACTURER	FRAME	NOTES
W01	3	SS_4_FX FX001	8' - 6"	3' - 3"	0' - 8"		Oldcastle BuildingEnvelope®		
W02	2	SS_4_FX FX001	6' - 8"	5' - 0"	2' - 6"		Oldcastle BuildingEnvelope®		
W03	2	SS_4_FX FX001	6' - 8"	5' - 7"	2' - 6"		Oldcastle BuildingEnvelope®		
W04	7	SS_4_FX FX001	9' - 1"	3' - 3"	2' - 0"		Oldcastle BuildingEnvelope®		
W05	1	C	6' - 8"	8' - 2"	-3' - 4"		Oldcastle BuildingEnvelope®		
W06	1	SS_4_FX FX001	6' - 8"	8' - 6"	2' - 6"		Oldcastle BuildingEnvelope®		

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

DOOR, WINDOW & ROOM SCHEDULE

A501

SCALE 1/4" = 1'-0"

1 ELECTRICAL NEW ADDITION
3/16" = 1'-0"

MEP SYMBOL LEGEND LEGEND	
	4" RECESSED LIGHTING
	12" PENDANT LIGHTING
	WALL SCONCE
	UNDER CABINET LIGHT
	2' x 2' RECESSED LIGHTING FOR DROP CEILING
	VENT FAN
	DUPLEX OUTLET
GFI	GFCI OUTLET
REF	REFRIGERATOR OUTLET
WP	WATER PROOF OUTLET
$	SWITCH

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

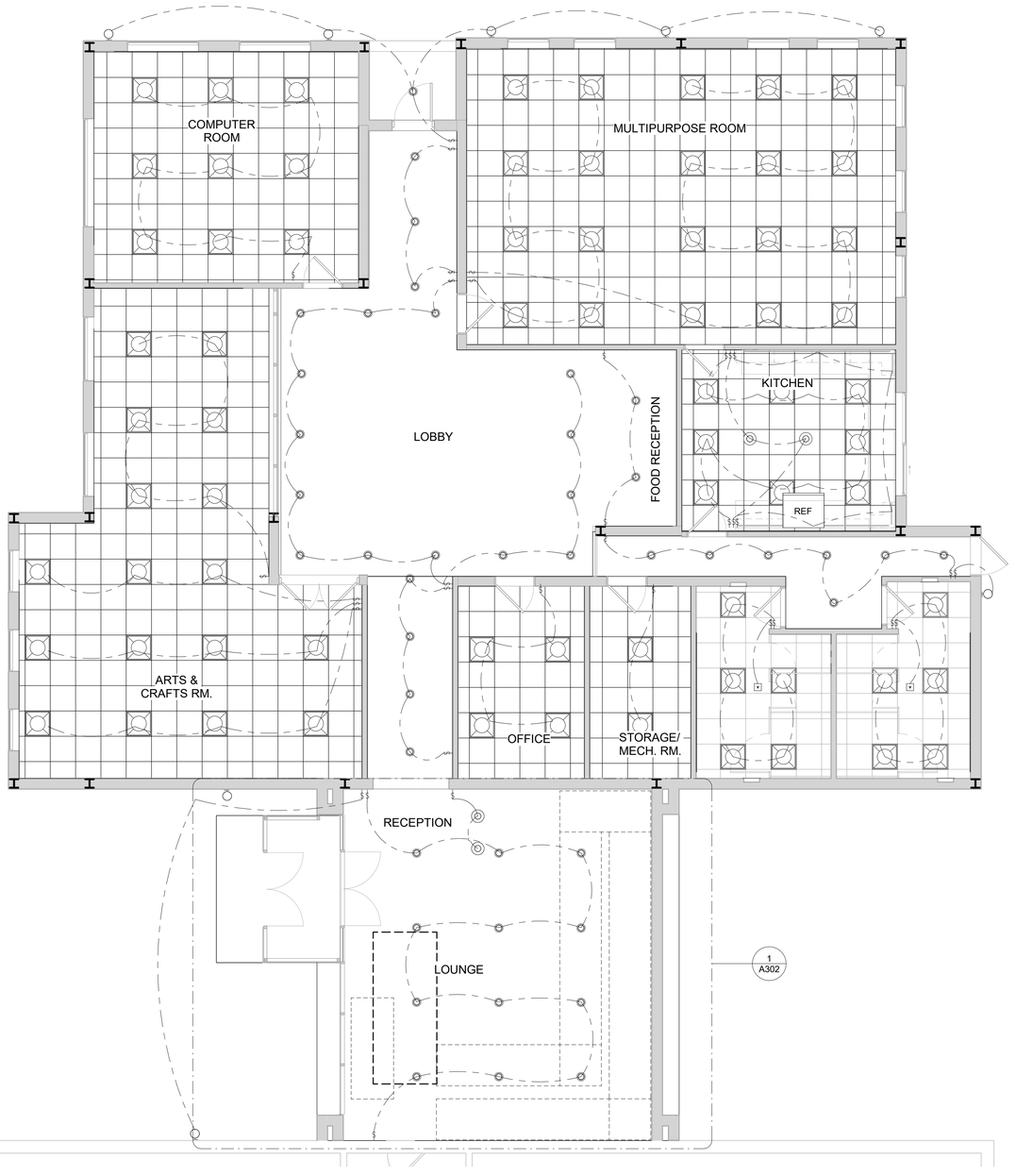
DRAWN BY: I. THOMPSON

DATE: 12/30/2024

ELECTRICAL PLAN

A601

SCALE As indicated



1 LIGHTING PLAN NEW ADDITION
3/16" = 1'-0"

MEP SYMBOL LEGEND LEGEND	
	4" RECESSED LIGHTING
	12" PENDANT LIGHTING
	WALL SCONCE
	UNDER CABINET LIGHT
	2' x 2' RECESSED LIGHTING FOR DROP CEILING
V	VENT FAN
	DUPLEX OUTLET
GFI	GFCI OUTLET
REF	REFRIGERATOR OUTLET
WP	WATER PROOF OUTLET
$	SWITCH

RCD

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

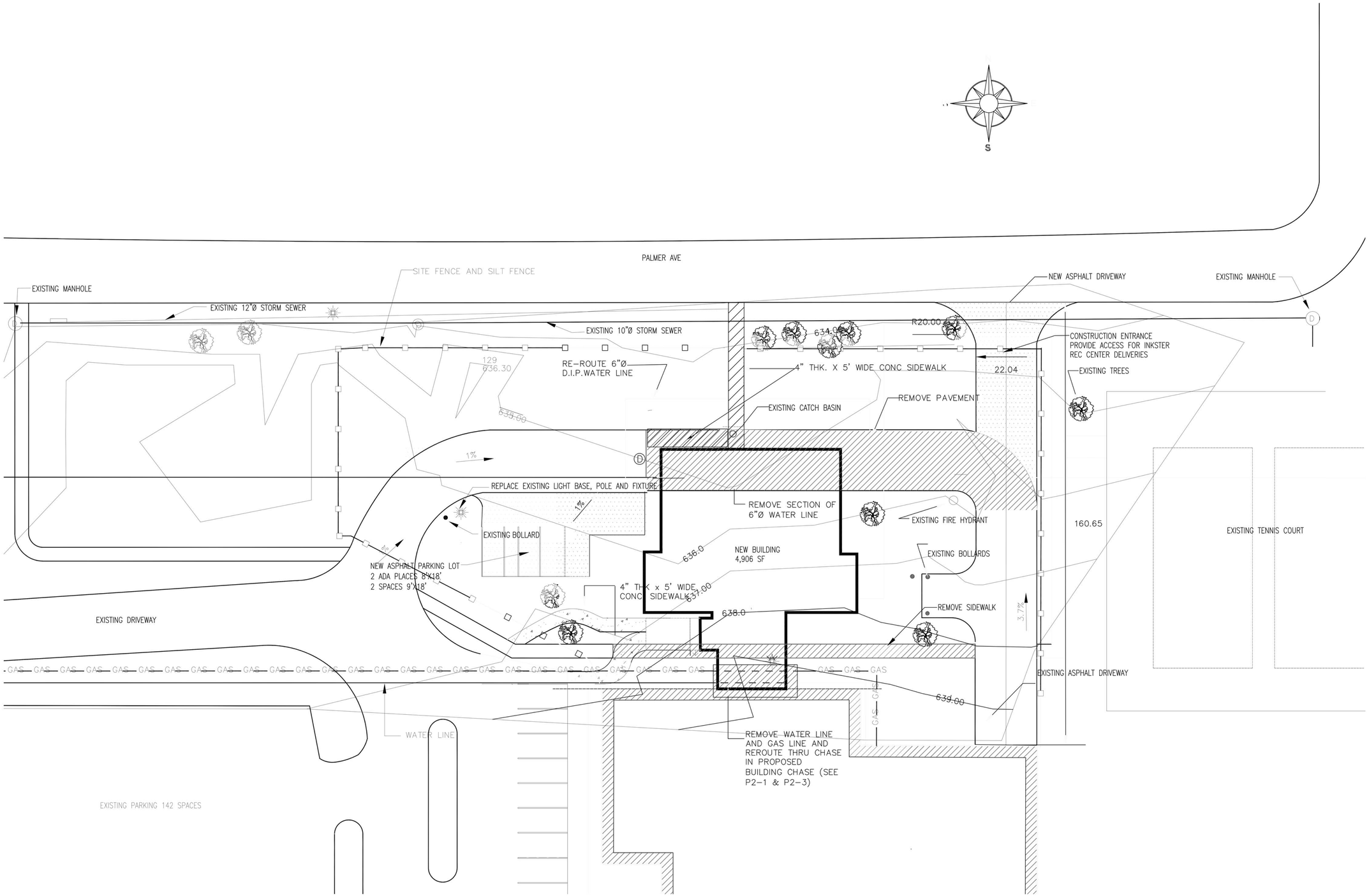
DRAWN BY: I. THOMPSON

DATE: 12/30/2024

LIGHTING PLAN

A602

SCALE As indicated



SITE PLAN
1"=20'

2025 MIDDLEBELT ROAD
INKSTER, MI 48141

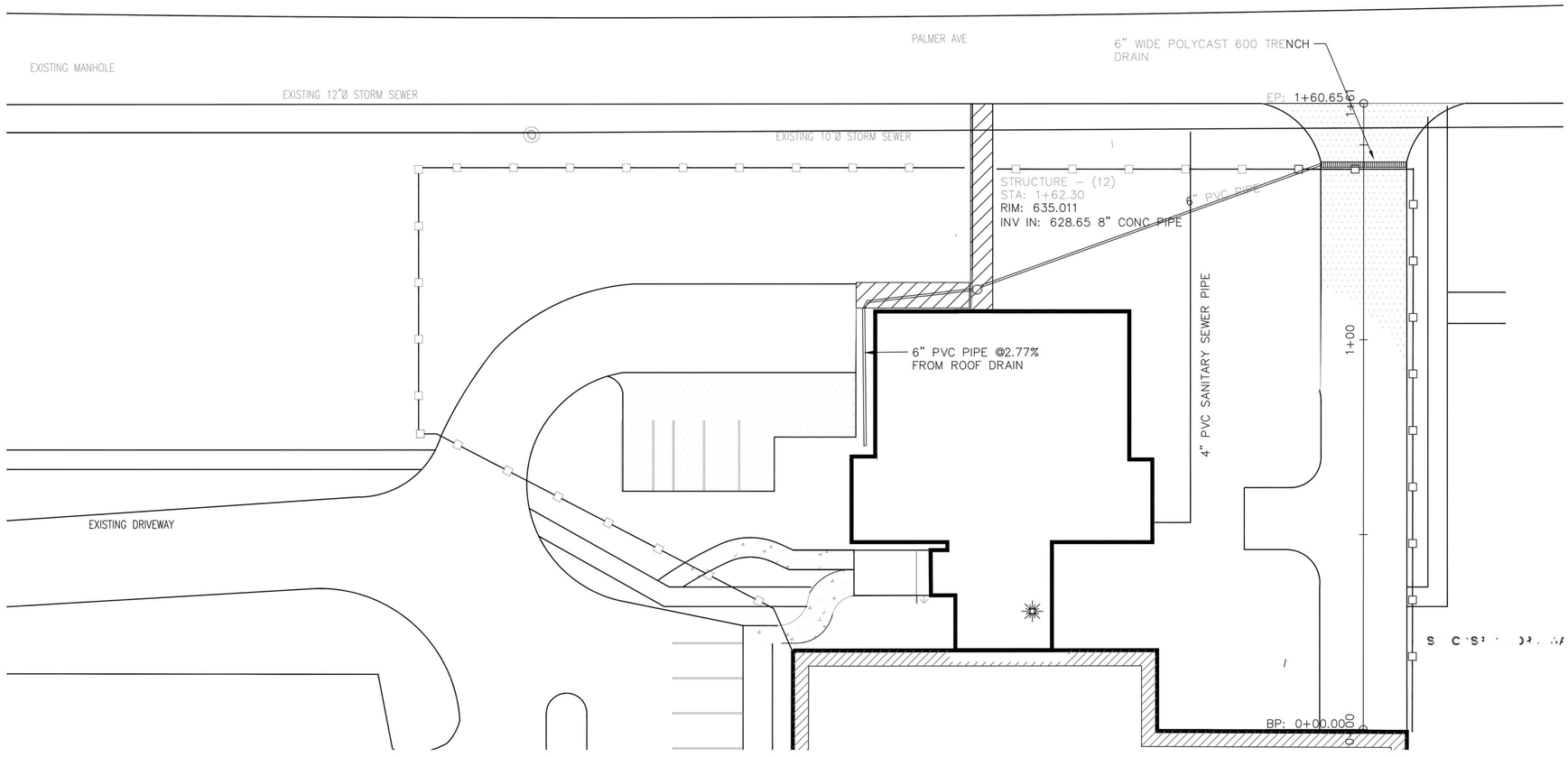
DRAWN BY: Author

DATE: 12/30/2024

CIVIL SITE PLAN

C101

C:\Users\bean\Documents\000-JOBS\RCD\02 - Design\Inkster Community Center\Senior Wellness Center Opt2 Rev 3.1 CD.rvt



STORM SEWER PLAN
1"=20'

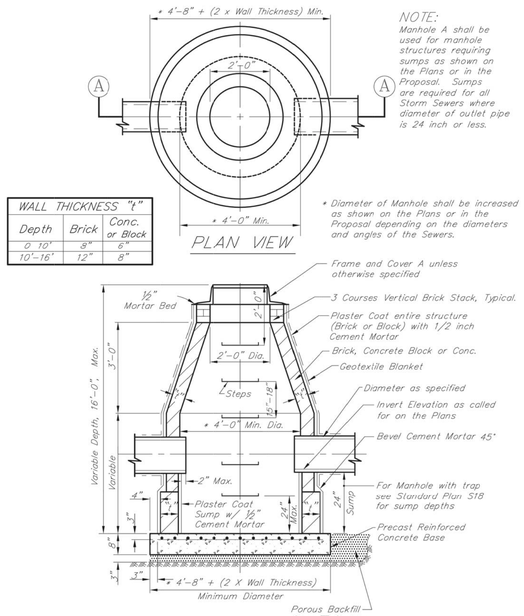
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

STORM SEWER

C102



NOTE:
Manhole A shall be used for manhole structures requiring sumps as shown on the Plans or in the Proposal. Sumps are required for all Storm Sewers where diameter of outlet pipe is 24 inch or less.

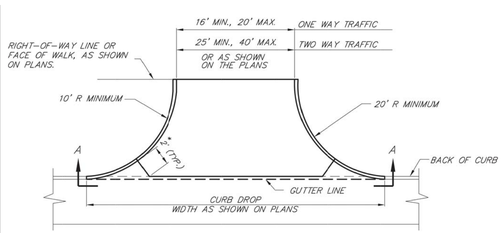
WALL THICKNESS "t"		
Depth	Brick	Conc. or Block
0'-10'	8"	6"
10'-16'	12"	8"

* Diameter of Manhole shall be increased as shown on the Plans or in the Proposal depending on the diameters and angles of the Sewers.

SECTION A–A

Work this Sheet with the General Notes on Standard Plan S–1

REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING		S–2
DIVISION PERMIT ENGINEER	MANHOLE A	SHEET 1 OF 1



SECTION A–A
NOT TO SCALE

NOTES:

CONSTRUCT THE DRIVE APPROACH WITH 8" NON–REINFORCED CONCRETE ON 6" OF 21AA AGGREGATE BASE COURSE COMPACTED IN PLACE (CIP.) OR 6" HMA LEVELING ON 9" OF 21AA AGGREGATE BASE COURSE (CIP).

CURBS SHALL BE CONSTRUCTED WITH HEIGHT VARYING FROM 6" AT BACK OF CURB TO 0" HEIGHT AT FACE OF SIDEWALK OR RIGHT–OF–WAY LINE.

AT ALL CONCRETE DRIVES, PLACE A 1" EXPANSION JOINT AT BACK OF CURB AND ½" EXPANSION JOINT AT FACE OF SIDEWALK OR RIGHT–OF–WAY LINE. MAINTAIN NORMAL SIDEWALK GRADE ACROSS DRIVE, 2% SLOPE UP FROM FACE OF SIDEWALK.

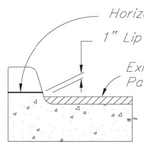
INBOUND OR OUTBOUND RADIUS SHALL BE REDUCED TO 5' FOR ONE–WAY TRAFFIC DRIVE APPROACH.

DRIVE APPROACH SHALL NOT ENCROACH ACROSS PROPERTY LINE EXTENDED WITHOUT WRITTEN APPROVAL FROM THE ADJOINING PROPERTY OWNER.

WORK THIS SHEET WITH THE GENERAL NOTES ON RS–1 AND D–6 SHEET 2–2.

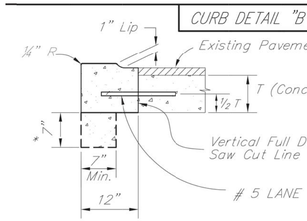
REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING		D–6
DIVISION PERMIT ENGINEER	COMMERCIAL DRIVE APPROACH	SHEET 1 OF 2

CURB DETAIL "A" (CURB CUT)



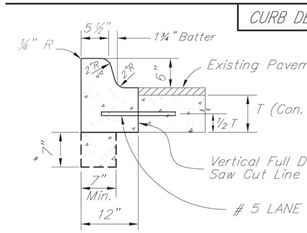
CURB DROP SHALL BE HORIZONTAL SAW CUT AT 1" ABOVE GUTTER LINE. IF THE CURB HAS NOT BEEN HORIZONTALLY CUT SATISFACTORILY, THE CURB CUT WILL HAVE TO BE REMOVED BY SAW CUTTING VERTICALLY AND REPLACED AS PER CURB DETAIL "B".

CURB DETAIL "B" (CURB REPLACEMENT W/ DROP)



* IF LANE TIES CAN NOT BE UTILIZED, DEEPEN MONOLITHIC CURB AS SHOWN.

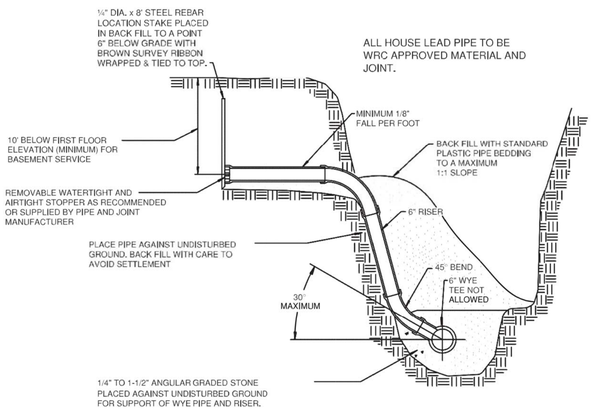
CURB DETAIL "C" (CURB REPLACEMENT)



* IF LANE TIES CAN NOT BE UTILIZED, DEEPEN MONOLITHIC CURB AS SHOWN.

WORK THIS SHEET WITH THE GENERAL NOTES ON RS–1.

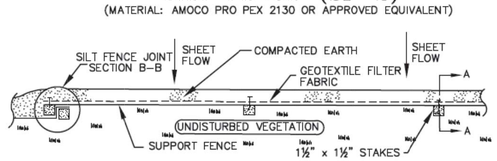
REVISION DATE: 08/01/07	WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES ENGINEERING DIVISION/PERMIT OFFICE PERMIT STANDARDS	SCALE NOT TO SCALE
DIRECTOR OF ENGINEERING		D–7
DIVISION PERMIT ENGINEER	CURB DETAIL A . B . C	SHEET 1 OF 3



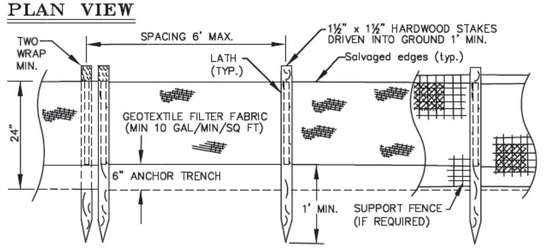
HOUSE LEAD DETAIL

SILT FENCE (SP–2)

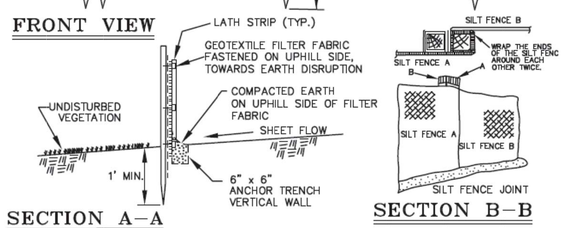
(MATERIAL: AMOCO PRO PEX 2130 OR APPROVED EQUIVALENT)



PLAN VIEW

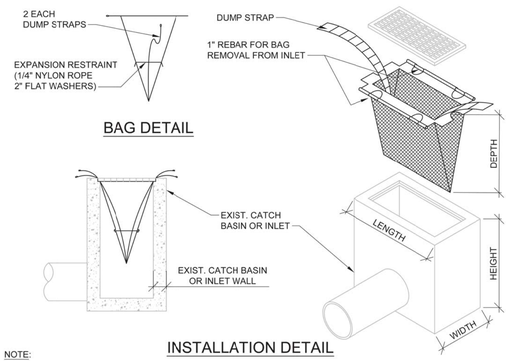


FRONT VIEW



SECTION A–A

SECTION B–B



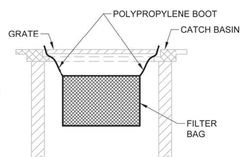
BAG DETAIL

INSTALLATION DETAIL

NOTE:

TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. SEDIMENT FILTERS TO BE SIMILAR TO:

1. "SILTSACK" TYPE B, REGULAR FLOW, BY ACF ENVIRONMENTAL, INC.
2. "INLET PRO SEDIMENT BAG", STANDARD FLOW, WITH OPTICNAL FOAM DEFLECTOR BY HANES GEO COMPONENTS.
3. "DANDY CURB SACK" BY DANDY PRODUCTS, INC.
4. "BASIN BAG", REGULAR FLOW BY CSI GEOTURF. CLEAN FILTER AS NEEDED.



GENERAL NOTES

1. CONTRACTOR SHALL OBTAIN PERMISSION OF THE ENFORCING ROAD AGENCY BEFORE THIS TYPE OF CONTROL IS CONSTRUCTED IN THE ROAD RIGHT-OF-WAY.
2. CONTRACTOR SHALL KEEP CURBS □ GUTTER INLET FILTERS (AFTER PAVING) IN PLACE UNTIL ALL AREAS CONTRIBUTING TO THEM ARE STABILI□ED WITH VEGETATION.
3. CONTRACTOR SHALL PERFORM WEEKLY INSPECTION AND MAINTENANCE TC ENSURE THAT THE CURB □ GUTTER INLET FILTER (AFTER PAVING) OPERATES EFFICIENTLY.

RCD

STER RECREATION CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

DETAILS

C103

SCALE AS SHOWN

GENERAL NOTES - ELECTRICAL

1. ELECTRICAL PLANS ARE GENERALLY DIAGRAMMATIC IN NATURE AND DO NOT CONVEY ALL DETAILS REQUIRED FOR A COMPLETE INSTALLATION. HOWEVER, THESE PLANS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE FOR GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS, DIMENSIONS AND MOUNTING METHODS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL VERIFY STRUCTURAL AND FINISH CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ARRANGE WORK TO MEET THESE CONDITIONS AND PROVIDE SUCH EQUIPMENT AND ACCESSORIES AS MAY BE REQUIRED. IN THE EVENT OF A CONFLICT, DEVIATION OR DISCREPANCY FOUND WITHIN THE PLANS OR SPECIFICATIONS, CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO COMMENCING WORK.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES, THE AMERICANS WITH DISABILITIES ACT, ANSI A117.1, THE 2017 NATIONAL ELECTRICAL CODE (NEC 2017), NFPA72-2016, 2018 VIRGINIA CONSTRUCTION CODE (VCC 2018), AND 2018 VIRGINIA ENERGY CONSERVATION CODE (VECC 2018).
3. AN ELECTRICAL FOREMAN SHALL BE ON-SITE, SUPERVISING ALL WORK PERFORMED.
4. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ACCESS TO AREA OF WORK AND FOLLOW ALL OWNER ENVIRONMENTAL, HEALTH, SAFETY AND SECURITY PROTOCOLS.
5. ALL WORK SHALL BE PHASED IN ACCORDANCE WITH CONTRACT PLANS, SPECIFICATIONS AND OWNER'S REQUIREMENTS.
6. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW AND SHALL BE LISTED AND LABELED BY A THIRD PARTY NATIONALLY RECOGNIZED TESTING LABORATORY AS REQUIRED AND PERMITTED BY AUTHORITIES HAVING JURISDICTION. WHERE MULTIPLE PIECES OF EQUIPMENT AND/OR COMPONENTS ARE INSTALLED IN A COMMON ENCLOSURE, THE ENTIRE ASSEMBLY SHALL BE LISTED AND LABELED AS AN ASSEMBLY. MODIFICATIONS OR ADDITIONS TO EXISTING EQUIPMENT SHALL MATCH EXISTING TO MAINTAIN ANY ASSEMBLY LISTING.
7. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL FIRE AND/OR SMOKE RATED WALLS, BARRIERS, CEILINGS, FLOORS, PARTITIONS, AND ROOFS PRIOR TO AND DURING CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE NATIONALLY RECOGNIZED TESTING LABORATORY LISTED THROUGH-PENETRATION DRAFT, FIRE AND SMOKE STOP SYSTEMS FOR ALL NEW FIRE AND/OR SMOKE-RATED WALL, BARRIER, CEILING, FLOOR AND ROOF PENETRATIONS WITHIN THE AREA OF WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NATIONALLY RECOGNIZED TESTING LABORATORY LISTED REQUIREMENTS AND APPLICABLE BUILDING CODES. PROVIDE PENETRATION ASSEMBLIES SUITABLE FOR PARTICULAR CONSTRUCTION.
9. CONTRACTOR SHALL MAINTAIN INTEGRITY OF VAPOR BARRIER AND INSULATION FOR ALL ELECTRICAL WORK AND DEVICES ON EXTERIOR AND PERIMETER WALLS.
10. CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES PRIOR TO COMMENCING WORK TO ENSURE ELECTRICAL WORK DOES NOT INTERFERE WITH OTHER TRADES. LINES AND SYSTEMS THAT REQUIRE SLOPE SHALL TAKE PRECEDENCE OVER ELECTRICAL WORK.
11. CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT. CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES FOR LOCATIONS OF THEIR EQUIPMENT. CONTRACTOR SHALL COORDINATE AND VERIFY ELECTRICAL REQUIREMENTS WITH OTHER TRADES PRIOR TO COMMENCING WORK.
12. PRIOR TO EQUIPMENT INSTALLATION, CONTRACTOR SHALL CONDUCT FIELD MEASUREMENTS TO ENSURE ALL ELECTRICAL EQUIPMENT AND ACCESSORIES WILL FIT INTO LOCATION(S) AS INDICATED ON PLANS. IN THE EVENT OF A CONFLICT, DEVIATION OR DISCREPANCY, CONTRACTOR SHALL PROVIDE A PROPOSED SKETCH OF REVISED ARRANGEMENT TO ENGINEER OF RECORD FOR ACCEPTANCE PRIOR TO COMMENCING WORK.
13. PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT PLUMB AND PARALLEL WITH BUILDING LINES. STUDY ALL GENERAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS, SHOP DRAWINGS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT, ACCESSORIES, PIPING, FIXTURES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, PIPE STANDS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
14. CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORT FOR DEVICE BACK BOXES, EQUIPMENT, LUMINAIRES AND RACEWAY WHERE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
15. CONTRACTOR SHALL VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES, TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
16. CONTRACTOR SHALL NOT BACKFILL EXCAVATIONS, INSTALL COVERPLATES AND ENCLOSURES OR GENERALLY SEAL OR OBSCURE ELECTRICAL INSTALLATIONS PRIOR TO INSPECTION AND ACCEPTANCE BY AUTHORITIES HAVING JURISDICTION.
17. CONTRACTOR SHALL REMOVE ALL DIRT AND DEBRIS FROM ALL ELECTRICAL ENCLOSURES AND DEVICE, JUNCTION AND PULL BOXES PRIOR TO INSTALLATION OF DEVICES, COVERPLATES AND LIDS.
18. CONTRACTOR SHALL LABEL ALL COVERPLATES, EQUIPMENT, JUNCTION BOXES, AND PULL BOXES WITH CIRCUIT AND PANEL DESIGNATIONS. REFER TO DETAILS AND SPECIFICATIONS FOR SPECIFIC LABEL AND IDENTIFICATION REQUIREMENTS.
19. CONTRACTOR SHALL PROVIDE NEW, TWO COLUMN, TYPED, COMPLETED AND REMOVABLE DIRECTORIES INDICATING CIRCUIT DESCRIPTIONS AND ROOM NUMBERS (AS INDICATED BY FINAL ROOM SIGNAGE), FOR ALL AFFECTED CIRCUITS WITHIN ELECTRICAL DISTRIBUTION EQUIPMENT. ALL SPACES SHALL BE INDICATED AS SUCH. ALL SPARES SHALL BE INDICATED AS SUCH AND PLACED IN THE "OFF" POSITION.
20. MINIMUM RACEWAY SIZE OF 3/4", UNLESS NOTED OTHERWISE.
21. ALL RACEWAYS SHALL BE INSTALLED CONCEALED ABOVE CEILINGS, WITHIN WALLS OR BELOW FLOORS EXCEPT WITHIN UNFINISHED SPACES AND ON CEILINGS OF AREAS WITH EXPOSED STRUCTURE. WITHIN PUBLIC SPACES, EXPOSED CONDUIT SHALL BE FACTORY OR FIELD PAINTED TO MATCH ADJACENT STRUCTURE. ALL CONDUITS SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURE. ALL CONDUITS ROUTED IN PARALLEL SHALL UTILIZE CONCENTRIC BEND RADII FOR ALL TURNS.
22. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL STRINGS INSTALLED PER SPECIFICATIONS.
23. ALL EXPOSED RACEWAY ENDS SHALL BE PROVIDED WITH PLASTIC BUSHINGS.
24. ALL ELECTRICAL CONDUCTORS, EQUIPMENT AND TERMINALS SHALL BE 75°C RATED UNLESS NOTED OTHERWISE.
25. MINIMUM CONDUCTOR SIZE OF #12AWG, COPPER, THHN/THWN, FOR BRANCH CIRCUITS, UNLESS NOTED OTHERWISE.
26. ALL BRANCH AND FEEDER CIRCUITS SHALL ORIGINATE FROM PANELS AND SERVE DEVICES AND EQUIPMENT AS INDICATED ON PLANS AND SCHEDULES. IN THE EVENT OF A CONFLICT, DEVIATION OR DISCREPANCY, CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO COMMENCING WORK.
27. ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR, UNLESS NOTED OTHERWISE. THE USE OF A COMMON NEUTRAL FOR MULTIPLE BRANCH CIRCUITS IS STRICTLY PROHIBITED.
28. ALL RACEWAYS CONTAINING A FEEDER OR BRANCH CIRCUIT SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUNDING CONDUCTOR. FOR RACEWAYS CONTAINING MORE THAN ONE BRANCH CIRCUIT, SIZE OF EQUIPMENT GROUNDING CONDUCTOR SHALL BE BASED ON THE LARGEST CIRCUIT'S OVERCURRENT PROTECTIVE DEVICE.
29. ALL DEVICE BACK BOXES SHALL BE RECESSED WITHIN WALLS, FURRING, OR CASEWORK, UNLESS NOTED OTHERWISE. USE OF EXPOSED SURFACE MOUNTED DEVICE BACK BOXES IS PROHIBITED EXCEPT WITHIN UNFINISHED SPACES AND ON CEILINGS OF AREAS WITH EXPOSED STRUCTURE. WITHIN PUBLIC SPACES, EXPOSED DEVICE BACK BOXES SHALL BE FACTORY OR FIELD PAINTED TO MATCH ADJACENT STRUCTURE.
30. DEVICE BACK BOXES INDICATED ON PLANS AS ADJACENT TO ONE ANOTHER SHALL BE MOUNTED 8" APART, CENTER-TO-CENTER, UNLESS NOTED OTHERWISE.
31. DEVICE BACK BOXES LOCATED ON OPPOSITE SIDES OF FIRE OR SMOKE RATED PARTITIONS SHALL NOT BE MOUNTED WITHIN THE SAME WALL CAVITY. WALL PENETRATIONS SHALL BE SEPARATED BY MOUNTING BOXES ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER INSIDE THE WALL.
32. CONTRACTOR SHALL COORDINATE EXACT HEIGHT AND LOCATION OF ALL WALL MOUNTED DEVICE BACK BOXES WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION. IN THE EVENT OF A CONFLICT, DEVIATION OR DISCREPANCY, CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ARCHITECT AND ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO COMMENCING WORK. MINOR ADJUSTMENTS IN ANY DIRECTION FOR DEVICE LOCATION, I.E. 5'-0" OR LESS, SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
33. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL DEVICE BACK BOX AND EQUIPMENT LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. IN THE EVENT OF A CONFLICT, DEVIATION OR DISCREPANCY, CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO COMMENCING WORK. MINOR ADJUSTMENTS IN ANY DIRECTION FOR DEVICE LOCATION, I.E. 5'-0" OR LESS, SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
34. CONTRACTOR SHALL PROVIDE MINIMUM 4" HOUSEKEEPING PAD WITH CHAMFERED EDGES FOR ALL FLOOR MOUNTED EQUIPMENT, UNLESS NOTED OTHERWISE. REFER TO DETAILS, IF APPLICABLE.
35. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LUMINAIRES AND DEVICES.
36. EXACT HEIGHTS AND LOCATIONS OF LUMINAIRES WITHIN UNFINISHED SPACES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. LUMINAIRES SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPING. CHAIN OR TRAPEZE-TYPE HANGERS SHALL BE PROVIDED WHERE LUMINAIRES CAN NOT BE MOUNTED DIRECTLY TO STRUCTURE OR CEILING. LUMINAIRES SHALL BE LOCATED TO MAXIMIZE ACCESSIBILITY AND ILLUMINATION.
37. ORIENT VERTICALLY MOUNTED RECEPTACLES WITH GROUND PIN UP. ORIENT HORIZONTALLY MOUNTED RECEPTACLES WITH GROUND PIN TO LEFT (NEUTRAL UP).
38. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL FLOOR-MOUNTED BOXES WITH ARCHITECT PRIOR TO INSTALLATION.
39. ALL AV, DATA, SECURITY AND TELECOMMUNICATIONS CABLING SHALL BE INSTALLED CONCEALED FROM VIEW ABOVE CEILINGS, IN WALLS OR BELOW FLOORS EXCEPT WITHIN UNFINISHED SPACES AND ON CEILINGS OF AREAS WITH EXPOSED STRUCTURE. ALL CABLING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURE.
40. SMOKE DETECTORS SHALL BE LOCATED MINIMUM 3'-0" FROM HVAC SUPPLY AND RETURN OPENINGS.
41. WHERE MULTIPLE VISUAL NOTIFICATION DEVICES CAN BE SEEN FROM A SINGLE LOCATION DURING NORMAL FACILITY OPERATION, ALL STROBES SHALL BE SYNCHRONIZED TO ALLOW FOR SIMULTANEOUS OPERATION.
42. MOUNT RECEPTACLES AT 20" AFF TO TOP UNLESS OTHERWISE NOTED. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
43. MOUNT ABOVE COUNTER (AC) RECEPTACLES AT 6" ABOVE COUNTERTOP OR BACKSPLASH AS APPLICABLE TO TOP OF BOX. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB. BOXES FOR DEVICES ON OPPOSITE SIDES OF A COMMON WALL MUST BE OFFSET 12".

MEP SYMBOL LEGEND LEGEND

	4" RECESSED LIGHTING
	12" PENDANT LIGHTING
	WALL SCONCE
	UNDER CABINET LIGHT
	2' x 2' RECESSED LIGHTING FOR DROP CEILING
V	VENT FAN
	DUPLEX OUTLET
GFI	GFCI OUTLET
REF	REFRIGERATOR OUTLET
MCR	MICROWAVE OUTLET
M	MOTOR
WP	WATER PROOF OUTLET
	SWITCH
	LED EXIT SIGN WALL MOUNTED
	LED EXIT SIGN CEILING MOUNTED
	EMERGENCY BALLAST LIGHT FIXTURES

RCD KEC

SENIOR WELLNESS CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: ADK

DATE: 16 DECEMBER 2024

GENERAL NOTES

E1-0

SCALE N.T.S

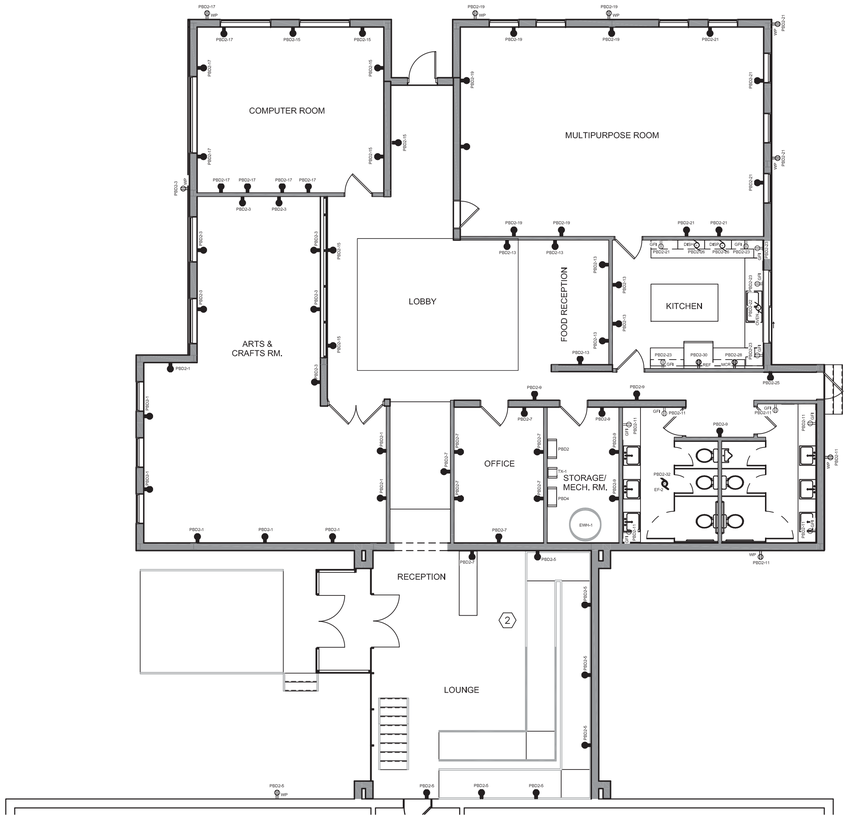
File Path

GENERAL NOTES

1. REFER TO SHEET E0.01 FOR FURTHER INFORMATION.
2. REFER TO ARCHITECTURAL PLANS FOR FINAL KITCHEN EQUIPMENT LIST, CUTSHEETS, AND DETAILS.
3. CONTRACTOR SHALL COORDINATE ALL FINAL KITCHEN EQUIPMENT CONNECTIONS AND PLUG CONFIGURATIONS WITH MANUFACTURER PRIOR TO ROUGH-IN.
4. CONTRACTOR SHALL COORDINATE ALL FOOD SERVICE EQUIPMENT OUTLET HEIGHTS WITH KITCHEN EQUIPMENT DRAWINGS.

NEW WORK KEYED NOTES: ⟨#⟩

1. CONTRACTOR SHALL PROVIDE NEW PANELBOARDS 'PBD4' AND 'PBD2' AS SHOWN. PBD4 WILL FEED NEW TRANSFORMER 'TX-1' WHICH WILL FEED PBD2.



1 NEW WORK POWER PLAN
E2-0 SCALE:1/8" = 1'-0"

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SENIOR WELLNESS CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: ADK

DATE: 16 DECEMBER 2024

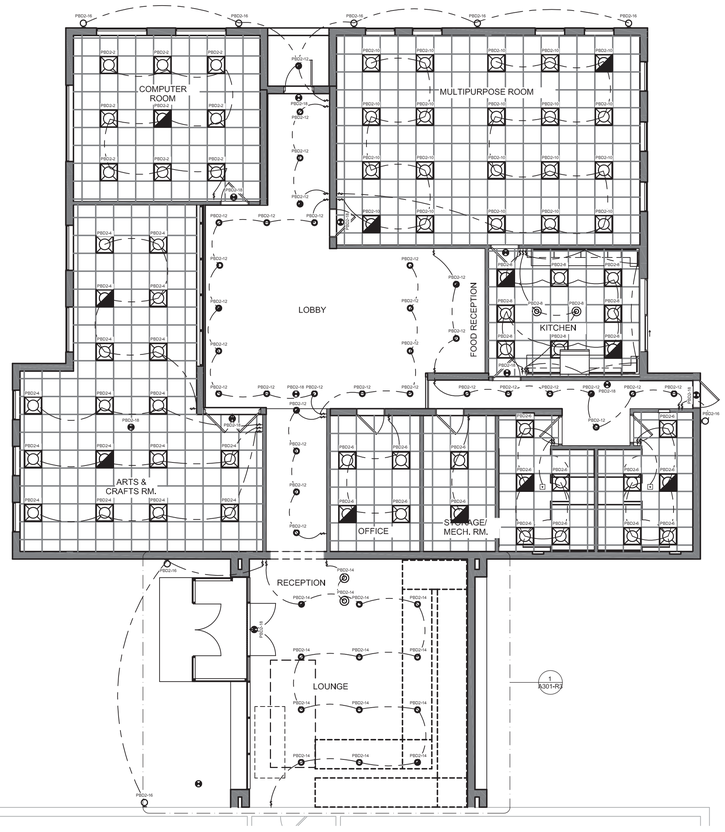
NEW WORK POWER PLAN

E2-0

SCALE $\frac{1}{8}$" = 1'

GENERAL NOTES

1. REFER TO SHEET E0.01 FOR FURTHER INFORMATION.
2. REFER TO ARCHITECTURAL PLANS FOR FINAL KITCHEN EQUIPMENT LIST, CUTSHEETS, AND DETAILS.
3. CONTRACTOR SHALL COORDINATE ALL FINAL KITCHEN EQUIPMENT CONNECTIONS AND PLUG CONFIGURATIONS WITH MANUFACTURER PRIOR TO ROUGH-IN.
4. CONTRACTOR SHALL COORDINATE ALL FOOD SERVICE EQUIPMENT OUTLET HEIGHTS WITH KITCHEN EQUIPMENT DRAWINGS.



1 E2-1 NEW WORK LIGHTING PLAN
SCALE:1/8" = 1'-0"

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SENIOR WELLNESS CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

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NEW WORK LIGHTING PLAN

E2-1

SCALE 1/8" = 1'

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH ARCHITECT FOR FINAL PLACEMENT AND INSTALLATION LOCATION AND HEIGHT OF POLE MOUNTED LIGHTING FIXTURES.

1 E2-1 NEW ADDITION PARKING LOT LIGHTING PLAN
SCALE:1/8" = 1'-0"

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2025 MIDDLEBELT ROAD
INKSTER, MI 48141

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DATE: 16 DECEMBER 2024

NEW WORK SITE LIGHTING PLAN

E2-2

SCALE 1/8" = 1'-0"

GENERAL NOTES

1. LOAD CALCULATIONS FOR PBD2 AND PBD4 ARE ESTIMATED, CONTRACTOR TO COORDINATE WITH ARCHITECT FOR PROPER LOAD VALUES FOR CIRCUITS ASSOCIATED WITH LIGHTING BEFORE INSTALLATION.

PANEL NO. PBD4 | SECTION: 1 OF 1 | Bus: 277/480 | Main C.B. 200 AMP
Location: MECH/STORAGE | Serving: | 3Ø 4 Wire | Main Lugs Only
A.I.C. Rating 10000 | [ ] Feed Thru Lugs | [X] Flush Mount | [ ] Top Feed
[ ] Fully Rated [ ] Series Rated | [ ] SubFeed Lugs | [ ] Iso. Gnd. Bus | [ ] Surface Mount | [X] Bottom Feed

Load Type	Circuit Description	CONN KVA	Circuit Breaker AMP	Pole	CKT	PH	CKT	Pole	AMP	CONN KVA	Circuit Description	Load Type
-	-	1.5	-	-	1	A	2	-	-	1.53	-	-
H	VAV-2	1.5	15	3	3	B	4	3	15	1.53	VAV-3	H
-	-	1.5	-	-	5	C	6	-	-	1.53	-	-
-	-	1.2	-	-	7	A	8	-	-	1.3	-	-
H	VAV-4	1.2	15	3	9	B	10	3	15	1.3	VAV-6	H
-	-	1.2	-	-	11	C	12	-	-	1.3	-	-
-	-	15.34	-	-	13	A	14	-	-	5.98	-	-
A	TX-1 (PDB2)	15.34	100	3	15	B	16	3	50	5.98	RTU	H
-	-	15.34	-	-	17	C	18	-	-	5.98	-	-
-	-	-	-	-	19	A	20	-	-	-	-	-
S	SPARE	-	15	3	21	B	22	3	15	-	SPARE	S
-	-	-	-	-	23	C	24	-	-	-	-	-
-	-	-	-	-	25	A	26	-	-	-	-	-
S	SPARE	-	15	3	27	B	28	3	15	-	SPARE	S
-	-	-	-	-	29	C	30	-	-	-	-	-
SP	SPACE	-	-	-	31	A	32	-	-	-	SPACE	SP
SP	SPACE	-	-	-	33	B	34	-	-	-	SPACE	SP
SP	SPACE	-	-	-	35	C	36	-	-	-	SPACE	SP
SP	SPACE	-	-	-	37	A	38	-	-	-	SPACE	SP
					39	B	40					
					41	C	42					

CONNECTED LOAD

Total General-Purpose Receptacle (R) Load @ 180VA/ea.	-	KVA
Total Specific-Purpose (SP) Receptacles	-	KVA
Total Motor (M) Load	-	KVA
Total MISC (A) Load	46.02*	KVA
Total HVAC (H) Load	34.53	KVA
TOTAL CONNECTED LOAD	80.55	**KVA**

PANEL NO. PBD2 | SECTION: 1 OF 1 | Bus: 120/208 | Main C.B. 200 AMP
Location: STORAGE/MECH | Serving: | 3Ø 4 Wire 200 AMP | Main Lugs Only
A.I.C. Rating 10000 | [ ] Feed Thru Lugs | [X] Flush Mount | [X] Top Feed
[ ] Fully Rated [ ] Series Rated | [ ] SubFeed Lugs | [ ] Iso. Gnd. Bus | [ ] Surface Mount | [ ] Bottom Feed

Load Type	Circuit Description	CONN KVA	Circuit Breaker AMP	Pole	CKT	PH	CKT	Pole	AMP	CONN KVA	Circuit Description	Load Type
R	REC - ARTS RM	1.44	15	1	1	A	2	1	15	0.54	LTG - CPU	L
R	REC - ARTS RM	1.44	15	1	3	B	4	1	15	1.02	LTG - ARTS/CRAFTS	L
R	REC - LOUNGE/RCPT	1.44	15	1	5	C	6	1	15	0.96	LTG - OFFICE/MCH/BR	L
R	REC - OFFICE/HALL	1.44	15	1	7	A	8	1	15	0.68	LTG - KITCHEN	L
R	REC - MECH/HALL	1.08	15	1	9	B	10	1	15	1.2	LTG - MULTI ROOM	L
R	REC - BATHROOMS	1.44	15	1	11	C	12	1	15	0.62	LTG - LOBBY/FOOD	L
R	REC - FOOD/LOBBY	1.26	15	1	13	A	14	1	15	0.44	LTG - RECEPTION	L
R	REC - CPU/LOBBY	1.44	15	1	15	B	16	1	15	0.48	LTG - EXTERIOR	L
R	REC - CPU	1.44	15	1	17	C	18	1	15	0.24	LTG - EXIT SIGNS	L
R	REC - MULTI RM	1.44	15	1	19	A	20	1	15	1.2	LTG - SITE LIGHTING	L
R	REC - MULTI RM	1.44	15	1	21	B	22	1	15	0.8	EXTERIOR LTG	L
R	REC - KITCHEN	0.9	15	1	23	C	24	2	50	5	RANGE/HOOD	M
H	-	1.5	-	-	25	A	26	-	-	5	-	-
H	EWH-1	1.5	30	3	27	B	28	1	20	2	DISHWASHER/DISP	M
H	-	1.5	-	-	29	C	30	1	15	1.2	MICROWAVE	R
H	VAV-1	0.5	15	1	31	A	32	1	15	1.44	REFRIGERATOR	R
H	VAV-5	2	20	1	33	B	34	1	15	0.5	EF-2	M
S	SPARE	-	15	1	35	C	36	1	15	-	SPARE	S
S	SPARE	-	15	1	37	A	38	1	15	-	SPARE	S
SP	SPACE	-	-	1	39	B	40	1	-	-	SPACE	SP
SP	SPACE	-	-	1	41	C	42	1	-	-	SPACE	SP

CONNECTED LOAD

Total General-Purpose Receptacle (R) Load @ 180VA/ea.	15.3	KVA
Total Specific-Purpose (SP) Receptacles	3.54	KVA
Total Motor (M) Load	12.5	KVA
Total Lighting (L) Load @ 125%	7.68*	KVA
Total HVAC (H) Load	7	KVA
TOTAL CONNECTED LOAD	46.02*	**KVA**

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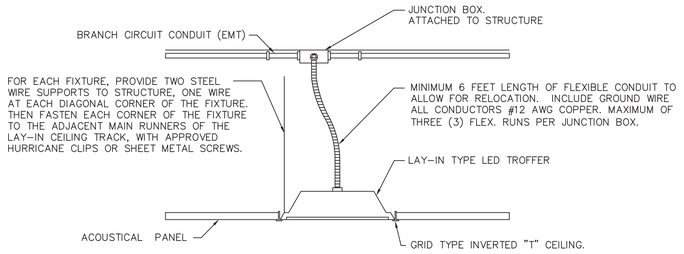
PANEL SCHEDULES

E3-1

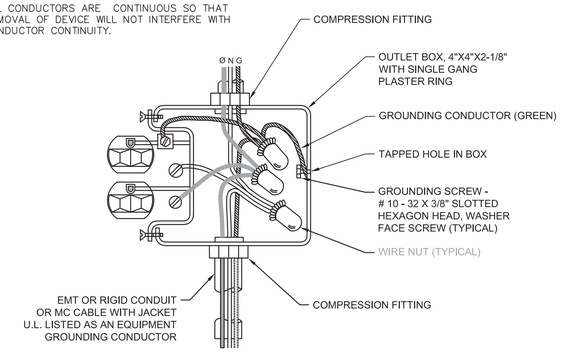
SCALE NTS



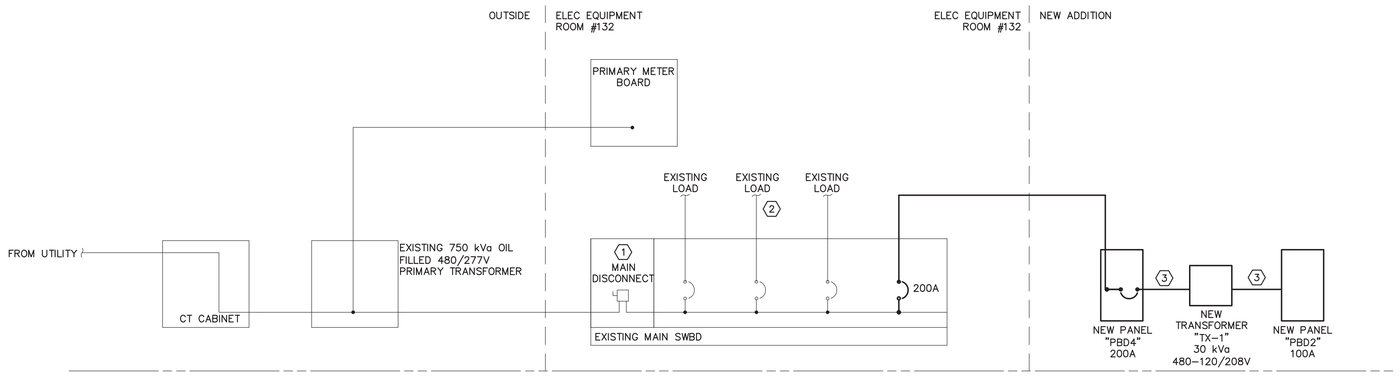
1 E3-1 LIGHT FIXTURE MOUNTING DETAIL
SCALE:NTS

NOTE:

1. ALL CONDUCTORS ARE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.



2 E3-1 TYPICAL RECEPTACLE DETAIL
SCALE:NTS



3 E3-1 PARTIAL POWER RISER DIAGRAM
SCALE: N.T.S.

NEW WORK KEYED NOTES: ⟨#⟩

1. CONTRACTOR TO VERIFY SIZE AND LOCATION OF MAIN DISCONNECT AT EXISTING MAIN SWBD LOCATED IN ELECTRICAL EQUIPMENT ROOM #132.
2. CONTRACTOR TO VERIFY SIZE AND QUANTITY OF EXISTING BREAKERS IN MAIN SWBD LOCATED IN ELECTRICAL EQUIPMENT ROOM #132.
3. FEEDER SIZE TO BE DETERMINED BY CONTRACTOR.

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DETAILS

E4-1

SCALE NTS

GENERAL NEW WORK NOTES

1. THE DESIGN AND INSTALLATION OF WET PIPE SPRINKLER SYSTEMS SHALL CONFORM TO THE REQUIREMENTS OF NFPA-13 AND BE PREPARED BY THE CONTRACTOR. THE DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF VIRGINIA, NICET LEVEL III OR IV FIRE PROTECTION DESIGNER.
2. HEAD LAYOUTS SHALL BE SYMMETRICAL. NEW HEADS INSTALLED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE QUICK RESPONSE, SEMI-RECESSED PENDANT TYPE, WHITE; OR BRASS UPRIGHT WHERE INSTALLED IN AREAS WITH EXPOSED STRUCTURE; OR CONCEALED PENDANT TYPE WHERE INSTALLED IN GYPSUM BOARD CEILINGS, WITH WHITE FLATE PLATE ESCUTCHEONS TO MATCH THE PAINTED CEILINGS.
3. THE CONTRACTOR SHALL PREPARE NEW HYDRAULIC CALCULATIONS AND SHOP DRAWINGS IN ACCORDANCE WITH NFPA-13 AS REQUIRED DUE TO MODIFICATIONS RESULTING FROM THE NEW FLOOR PLAN LAYOUT. HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER OF RECORD. ONCE APPROVED BY A/E OF RECORD, THE SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED BY THE ENGINEER OF RECORD TO THE COMMONWEALTH OF VIRGINIA DIVISION OF ENGINEERING AND BUILDINGS FOR REVIEW.
4. FIELD VERIFY ALL EXISTING CONDITIONS, DESIGN DATA, ETC. EXISTING CALCULATIONS AND APPROVED SHOP DRAWINGS WERE NOT AVAILABLE AT THE TIME THIS SHEET WAS PREPARED.
5. HEADS SHALL BE RATED AND U.L. LISTED FOR THE INTENDED TEMPERATURE CLASSIFICATION. SPRINKLER TEMPERATURE RATINGS SHALL COMPLY WITH THE REQUIREMENTS OF NFPA-13.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND COORDINATION OF THE EXISTING SPRINKLER SYSTEM WITH THE NEW MEP SYSTEM REQUIREMENTS OF THIS PROJECT.
7. WHERE CEILING WORK OCCURS OUTSIDE OF CURRENT PROJECT RENOVATION AREAS, SPECIAL CARE SHALL BE TAKEN TO PROTECT EXISTING SPRINKLER SYSTEM COMPONENTS FROM DAMAGE. IF PIPING OR SPRINKLERS ARE DAMAGED DURING RENOVATION THEY SHALL BE REPLACED WITH EXACT SIZE AND TYPE OF HEAD, PIPING, ETC. AND COMPLY WITH THE REQUIREMENTS OF NFPA-13. THE SPRINKLER CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS TO DETERMINE EXTENT OF CEILING WORK ACROSS ALL PHASES OF THE PROJECT.
8. SUPPORT ALL PIPING FROM EXISTING STRUCTURE WITH U.L. LISTED HANGERS AND SUPPORTS SUITABLE FOR THE INTENDED INSTALLATION. DESIGN, SELECTION, SPACING AND APPLICATION OF HANGERS AND SUPPORTS SHALL COMPLY WITH NFPA STANDARDS, ANSI B31.1 AND MSS SP-69.
9. ALL TRAPPED PIPING SHALL BE PROVIDED WITH DRAIN VALVES, NIPPLE AND CAP.

SPRINKLER DESIGN CRITERIA

PROJECT OWNER:	CITY OF INKSTER
PROJECT NAME:	SENIOR CENTER
OCCUPANCY DESCRIPTION:	MIXED-USE
TYPE CONSTRUCTION:	II B
HAZARD CLASSIFICATION:	LIGHT HAZARD

DESIGN SUMMARY

SYSTEM NO. 1	REC CENTER
SYSTEM OCCUPANCY CLASSIFICATION:	MIXED
SYSTEM SQUARE FEET:	AS INDICATED
CEILING HEIGHT(S):	VARIES
TYPE OF SYSTEM:	WET
CRITERIA FOR DESIGN:	NFPA 13
HAZARD CLASSIFICATION:	LIGHT
DESIGN AREA (SQUARE FEET):	6000 SQ. FT.
DENSITY (GPM):	0.10
HOSE STREAM ALLOWANCE (GPM):	100
SPRINKLER SPACING (SQUARE FEET):	225 SF
K-FACTOR	MAX. 5.6

CODE SUMMARY

PLANS HAVE BEEN DESIGNED UNDER THE FOLLOWING CODES:

(ADOPTS INTERNATIONAL BUILDING CODE - IBC - 2018)

NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS - 2016

NFPA 25 INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2017

MICHIGAN BUILDING CODE

LEGEND

SYMBOL	DESCRIPTION
◉	SEMI-RECESSED PENDANT SPRINKLER, 155°F, QUICK RESPONSE TYPE, WHITE
○	UPRIGHT SPRINKLER, 155°F, QUICK RESPONSE TYPE, BRASS
●	CONCEALED PENDANT SPRINKLER, 155°F, QUICK RESPONSE TYPE, WHITE PAINTED COVER PLATE
—►	DIRECTION OF FLOW
—O↑	ELBOW, TURNED UP
—O↓	ELBOW, TURNED DOWN
—┬—	TEE
—O↑—	TEE, UP
—O↓—	TEE, DOWN
—SPR—	NEW SPRINKLER PIPING
—(E)—	EXISTING SPRINKLER PIPING
⊕	POINT OF CONNECTION, NEW TO EXISTING

SPRINKLER NOTES:

1. FIRE PROTECTION CONTRACTOR SHALL PROVIDE A SYSTEM FLOW TEST, PIPING LAYOUT, DESIGN & COMPLETE SPRINKLER SYSTEM CALCULATIONS.
2. ALL NEW SPRINKLERS SHALL BE LOCATED TO BE SYMMETRICAL , ASSOCIATED PIPING SHALL BE CONCEALED.
3. UTILIZE SYMBOLOGY IN LEGEND ON DESIGN DOCUMENTS.
4. DESIGN AND INSTALLATION SHALL FOLLOW SPECIFICATION SECTION "WET-PIPE SPRINKLER SYSTEM".
5. SPRINKLER SHOP DRAWINGS SHALL INDICATE ALL REQUIRED CLEARANCES BETWEEN SPRINKLER COMPONENTS & BUILDING COMPONENTS REQUIRING ACCESS.
6. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS, FIRE ALARM PANELS, COMPUTER EQUIPMENT, ETC.

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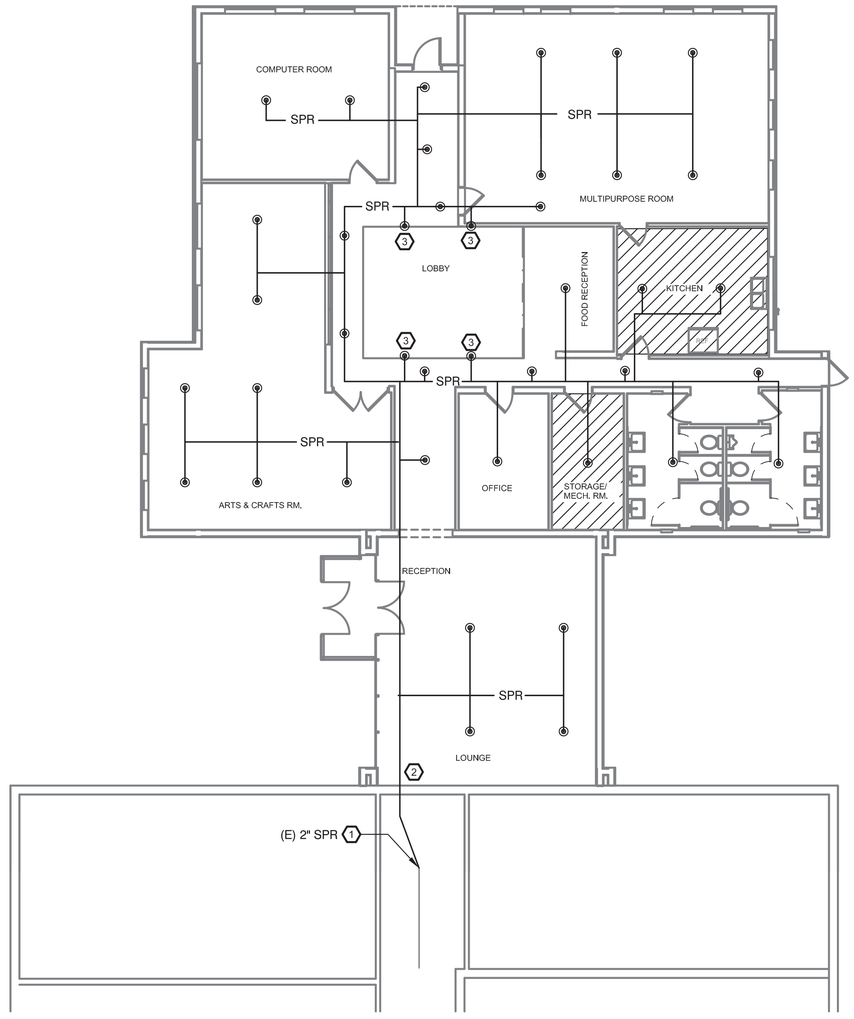
GENERAL NOTES

FP1-0

SCALE N.T.S



1 FP2-0 NEW ADDITION FIRE PROTECTION PLAN
SCALE:1/8" = 1'-0"

GENERAL NOTES

1. EXISTING FIRE MAIN AND UPRIGHT SPRINKLERS CURRENTLY INSTALLED SHALL REMAIN IN SERVICE DURING THE DEMOLITION AND NEW WORK. REFER TO GENERAL NOTES ON SHEET FP1-0 FOR ADDITIONAL INFORMATION CONCERNING TEMPORARY SPRINKLER COVERAGE DURING SYSTEM SHUTDOWN WITHIN THE RENOVATED SPACES.
2. ALL HEADS INSTALLED WITHIN ACOUSTIC TILE CEILINGS SHALL BE LOCATED TO BE CENTERED IN TILES, HEADS INSTALLED WITHIN GYPSUM BOARD CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING.

NEW WORK KEYED NOTES: (#)

1. TIE INTO EXISTING FIRE SPRINKLER BUILDING SYSTEM. CONTRACTOR TO VERIFY EXISTING FIRE WATER PUMP IS FUNCTIONAL AND CAN ACCOMMODATE ADDED LOAD TO SYSTEM.
2. PROVIDE FIRE RATED PENETRATION AT EXISTING EXTERIOR BUILDING WALL INTO NEW ADDITION. PROVIDE FIRE RATED PENETRATIONS AT ALL RATED PARTITIONS AND WALLS.
3. PROVIDE HORIZONTAL SPRINKLER HEADS IN BULKHEAD OF SKYLIGHT TO PROVIDE FULL COVERAGE OF LOUNGE.

NFPA 13 HAZARD CLASSIFICATIONS

LIGHT HAZARD: 0.10 GPM OVER THE MOST REMOTE 1,500 SQUARE FOOT AREA MAXIMUM 225 SQUARE FEET OF COVERAGE PER HEAD

ORDINARY HAZARD GROUP 2: 0.25 GPM OVER THE MOST REMOTE 1,500 SQUARE FOOT AREA MAXIMUM 130 SQUARE FEET OF COVERAGE PER HEAD

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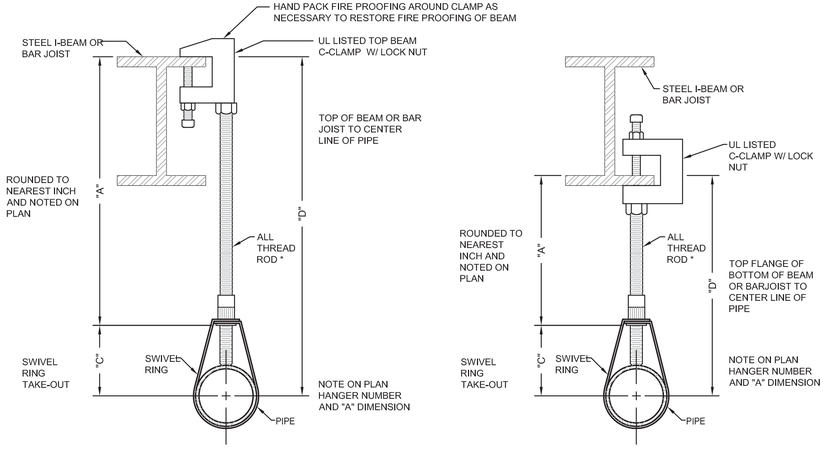
FIRE PROTECTION PLAN

FP2-0

SCALE 1/8" = 1'-0"



PIPE SIZE	ROD SIZE	MIN. 'C' DIM.	MAX. 'C' DIM.
3/4"	3/8"	1/2"	1-5/8"
1"		5/8"	1-3/4"
1-1/4"		13/16"	1-7/8"
1-1/2"		15/16"	2"
2"		1-3/16"	2-3/8"
2-1/2"		1-7/16"	2-3/4"
3"		1-3/4"	3-1/4"
3-1/2"		2"	3-5/8"
4"		2-1/4"	3-7/8"
5"	1/2"	2-3/4"	4-3/4"
6"		3-5/16"	5-1/2"
8"		4-5/16"	6-3/4"

HANGER SHALL MEET NFPA 13 REQUIREMENTS

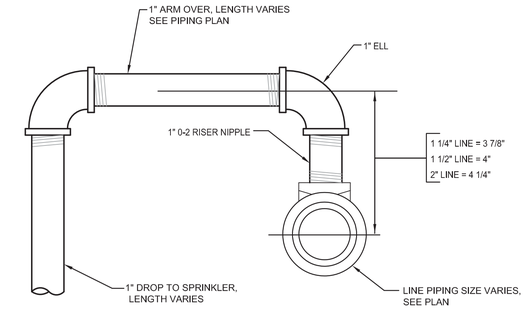
NOTE:

* EXTEND ALL THREAD ROD TO TOP OF PIPE WHEN PRESSURE EXCEEDS 100 PSI AND INSTALL WITHIN 12" OF THE LAST SPRINKLER DROP ON EACH BRANCH LINE.

1 BEAM CLAMPS

P3-1

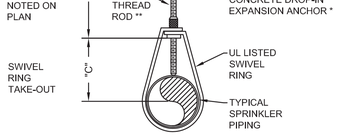
SCALE:NTS



2 SPRINKLER RETURN BEND

P3-1

SCALE:NTS



PIPE SIZE	ROD SIZE	MIN. 'C' DIM.	MAX. 'C' DIM.
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1"		5/8"	1-3/4"
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1-1/2"		15/16"	2"
2"		1-3/16"	2-3/8"
2-1/2"		1-7/16"	2-3/4"
3"		1-3/4"	3-1/4"
3-1/2"		2"	3-5/8"
4"		2-1/4"	3-7/8"
5"	1/2"	2-3/4"	4-3/4"
6"		3-5/16"	5-1/2"
8"		4-5/16"	6-3/4"

HANGER SHALL MEET NFPA 13 REQUIREMENTS

NOTES:

* SPACING SHALL NOT EXCEED 10'-0 BETWEEN HANGERS WHEN SUPPORTING PIPES LARGER THAN 4" IN DIAMETER, UNLESS AN EXCEPTION PER NFPA-13 2013 SECTION 9.1.3.5 CAN BE MET.

** EXTEND ALL THREAD ROD TO TOP OF PIPE WHEN PRESSURE EXCEEDS 100 PSI AND INSTALL WITHIN 12" OF THE LAST SPRINKLER DROP ON EACH BRANCH LINE.

3 CONCRETE ANCHOR

P3-1

SCALE:NTS

RCD KEC

SENIOR WELLNESS CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: ADK

DATE: 16 DECEMBER 2024

DETAILS

FP3-1

SCALE AS NOTED

MECHANICAL GENERAL NEW WORK NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS INCLUDING IMC AND MICHIGAN BUILDING CODES. MECHANICAL EQUIPMENT SHALL BE SELECTED TO MEET OR EXCEED THE REQUIREMENTS OF THE ENERGY CONSERVATION CODE. MECHANICAL WORK SHALL COMPLY WITH PROJECT SPECIFICATIONS.
2. FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES REQUIRED TO MAKE THE MECHANICAL WORK COMPLETE AND OPERATIONAL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING, TESTING AND VERIFYING CONTROL AND FIRE ALARM SEQUENCES, LINE BY LINE, AND VERIFYING OPERATION OF THE EQUIPMENT. ALL EQUIPMENT, VALVES, DAMPERS ACTUATORS, ETC. SHALL BE FUNCTIONAL BEFORE PROJECT CLOSEOUT. COORDINATE WITH ELECTRICAL, FIRE ALARM AND TAB CONTRACTORS.
4. THESE DRAWINGS ARE DIAGRAMMATIC. EXACT EQUIPMENT LOCATIONS AND DUCT AND PIPING ROUTING SHALL BE COORDINATED WITH THE BUILDING AND SITE CONDITIONS. THE ACTUAL EQUIPMENT AND MINIMUM CLEARANCE DIMENSIONS SHALL BE VERIFIED WITH THE SUPPLIERS.
5. EQUIPMENT, DUCTWORK, PIPING AND CONDUIT LAYOUT SHALL BE COORDINATED WITH BUILDING COMPONENTS AND OTHER TRADES PRIOR TO INSTALLATION. THE SYSTEM SHALL BE NEATLY ARRANGED TO MAXIMIZE SPACE ABOVE CEILINGS AND WITHIN CHASES. MAINTAIN MINIMUM EQUIPMENT AND DEVICE MAINTENANCE CLEARANCES. DEVICES SHALL BE READILY MAINTAINABLE. METERS AND GAGES SHALL BE ORIENTED FOR BEST VIEW. INSTALLED MATERIALS NOT COORDINATED SHALL BE REMOVED AND REINSTALLED AT NO ADDITIONAL COST.
6. DUCT OFFSETS SHALL BE MADE AT 15 OR 30-DEGREE ANGLES WHERE POSSIBLE BUT AT NEVER MORE THAN 45-DEGREES.
7. CEILING-MOUNTED EQUIPMENT EXACT LOCATIONS SHALL BE COORDINATED WITH THE REFLECTED CEILING PLANS AND THE EXISTING CONDITIONS. AIR OUTLETS AND SMOKE DETECTORS SHALL BE COORDINATED TO BE NO LESS THAN 36-INCHES APART.
8. WALL-MOUNTED CONTROL SENSORS SHALL BE INSTALLED AT 48-INCHES ABOVE THE FLOOR TO THE TOP OF BACK-BOX. COORDINATE EXACT LOCATIONS WITH LIGHT SWITCHES. WHEN BOTH ARE INDICATED ADJACENT TO A DOOR, LOCATE THE SWITCH CLOSEST TO THE DOOR AND THE SENSOR WITHIN 12-INCHES OF THE SWITCH.
9. CONTROL AND ALARM DEVICES SHALL BE INSTALLED IN BACK-BOXES WITHIN NEW AND EXISTING WALLS. SURFACE-MOUNTED CONDUIT AND RACEWAY WILL NOT BE ACCEPTED EXCEPT FOR EXISTING SOLID CONCRETE WALLS.
10. INSTALL PENETRATIONS OF LIFE-SAFETY RATED ASSEMBLIES PER APPROVED UL-LISTED THROUGH PENETRATION ASSEMBLIES.
11. PROVIDE A DUCT ACCESS DOOR FOR EACH DUCT-MOUNTED DEVICE REQUIRING MAINTENANCE OR INSPECTION. COORDINATE CEILING AND WALL ACCESS DOORS WITH DUCT ACCESS DOORS.
12. ALL MOTORIZED EQUIPMENT SHALL BE CONNECTED TO DUCTWORK OR PIPING WITH FLEXIBLE CONNECTIONS.
13. EXTEND POWER CONDUIT AND WIRING FROM DEDICATED POWER SOURCES TO CONTROL EQUIPMENT AND DEVICES. COORDINATE POWER SOURCES WITH ELECTRICAL CONTRACTOR.
14. MAINTAIN MINIMUM 36-INCH CLEARANCE FOR 120/208V POWER OR 42-INCH CLEARANCE FOR 277/480V POWER AS REQUIRED BY THE NATIONAL ELECTRIC CODE FOR ELECTRICAL EQUIPMENT AND TO PROVIDE MAINTENANCE ACCESS.
15. MAINTAIN CLEAR SPACE BETWEEN THE CEILING AND THE TOP OF EACH TERMINAL UNIT. COORDINATE ALL CLEARANCES WITH OTHER TRADES. ENSURE ACCESS DOORS CAN BE OPENED FULLY AND ALL VALVES, DAMPERS AND DEVICES CAN BE EASILY REACHED AND ACTUATED.

HVAC SYMBOLS

SYMBOL	DESCRIPTION
GRILLES	
CEILING MOUNTED / WALL MOUNTED	
	SUPPLY AIR DEVICE
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE
	LINEAR SLOT AIR DEVICE
	LINEAR SLOT AIR DEVICE WITH INACTIVE SECTIONS LENGTH AS INDICATED ON PLANS
X / 500	AIR DEVICE TAG "TYPE" / "CFM" (SEE SCHEDULE)
	ECCENTRIC TRANSITION
	CONCENTRIC TRANSITION
	RADIUS OFFSET (IN THE VERTICAL)
	MITERED OFFSET (IN THE VERTICAL)
	RADIUS ELBOW
	MITERED ELBOW WITH TURNING VANES
RISE / DROP	SUPPLY DUCT
RISE / DROP	RETURN AIR DUCT
RISE / DROP	EXHAUST AIR DUCT
	FLEX DUCT
	DEMOLITION DUCTWORK OR EQUIPMENT
	EXISTING DUCTWORK OR EQUIPMENT
24"x24"	NEW DUCTWORK OR EQUIPMENT
24"Ø	ROUND DUCT RISE/DROP
24"/18"Ø	OVAL DUCT RISE/DROP
	RECTANGULAR TAKE-OFF
	ROUND TAKE-OFF
BOTTOM / TOP / SIDE	ACCESS DOORS

HVAC SYMBOLS CONTINUED

SYMBOL	DESCRIPTION
DAMPERS	
AD	VOLUME DAMPER
	FIRE DAMPER
	FIRE/SMOKE DAMPER
	SMOKE DAMPER
	MANUAL DAMPER
	GRAVITY BACKDRAFT DAMPER
	MOTORIZED PARALLEL BLADE DAMPER
	MOTORIZED OPPOSED BLADE DAMPER
FD	POINT OF CHANGE IN DUCT CONSTRUCTION CLASS (NUMBERS INDICATE PRESSURE CLASS)

ABBREVIATIONS
"AD" = AUTOMATIC/MOTORIZED
"A/F" = AUTOMATIC/FIRE (MOTORIZED)
"MD" = MANUAL VOLUME
"BD" = BACKDRAFT
"FD" = FIRE
"F/S" = FIRE SMOKE
"SD" = SMOKE

SYMBOL	DESCRIPTION
CONTROLS	
T	THERMOSTAT
S	SPECIAL SENSOR
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
ND	NITROGEN DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
CD	CARBON DIOXIDE SENSOR
O2	OXYGEN SENSOR
	DUCT MOUNTED SMOKE DETECTOR
H T	DUCT MOUNTED TEMPERATURE/HUMIDITY SENSOR
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
FZ	FREEZESTAT
T	AVERAGING TEMPERATURE SENSOR IN AIR DUCT
	OCCUPANCY SENSOR
	EMERGENCY POWER OFF SWITCH (E-STOP)
^{M}	MANUAL MOTOR STARTER, FRACTIONAL HORSEPOWER (SEE STARTER SCHEDULE FOR SIZE, ETC.)
	POINT OF NEW WORK
	POINT OF DEMOLITION

ABBREVIATIONS - MECHANICAL

%	PERCENT
(D)	DEMOLISH
(E)	EXISTING
(R)	REMOVE
<	LESS THAN
>	GREATER THAN
AC	AIR CONDITIONING
ADJ	ADJUSTABLE
AF	AIRFLOW
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
ATC	AUTOMATIC TEMPERATURE CONTROL
ATV	ATMOSPHERIC VENT
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BO	BINARY OUTPUT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO2	CARBON DIOXIDE
CONT	CONTROLS, CONTINUED
CRU	CONDENSATE RETURN UNIT
CT	COOLING TOWER
Cv	VALVE COEFFICIENT
DB	DRY BULB
DBL	DOUBLE
DEG	DEGREE
DI	DIGITAL INPUT
DIA	DIAMETER
DN	DOWN
DO	DIGITAL OUTPUT
DOAS	DEDICATED OUTSIDE AIR SYSTEM
DP	DIFFERENTIAL PRESSURE (SENSOR)
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
E	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ECM	ELECTRONICALLY COMMUTATED MOTOR
EF	EXHAUST FAN
EHC	ELECTRIC HEATING COIL
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETC	ETCETERA
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
F	DEGREES FAHRENHEIT
FD	FIRE DAMPER OR FLOOR DRAIN
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FOOT/FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR

ABBREVIATIONS - MECHANICAL

GPM	GALLONS PER MINUTE
H	HUMIDIFIER OR HEIGHT
H2O	WATER
HD	HEAD
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AND AIR-CONDITIONING
HWT	HEATING WATER TEMPERATURE
IN	INCH
KEF	KITCHEN EXHAUST FAN
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LIN	LINEAR
LWT	LEAVING WATER TEMPERATURE
M	MOTOR OR MOTORIZED DAMPER OR METER
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKEUP AIR UNIT
MBH	1,000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MFG	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED OR NOISE CRITERIA
NO	NORMALLY OPEN OR NUMBER
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE
OD	OUTSIDE DIAMETER
OS	OCCUPANCY SENSOR
P	PRESSURE OR PRESSURE SENSOR
PD	PRESSURE DROP
PH	PHASE
PHC	PREHEAT COIL
QTY	QUANTITY
R	RADIUS, RISE, OR REMOVE
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RCP	REFLECTED CEILING PLAN
RH	RELATIVE HUMIDITY, REHEAT
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SCH	SCHEDULE
SEC	SECONDS
SF	SUPPLY FAN OR SQUARE FOOT
SP	STATIC PRESSURE
T, TEMP	TEMPERATURE
T&P	TEMPERATURE AND PRESSURE
T-STAT	THERMOSTAT
TON	COOLING TONS (12,000 BTUH)
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
V, VOLT	VOLTAGE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH OR WATTS
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WPD	WATER PRESSURE DROP

RCD KEC

SENIOR WELLNESS CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: ADK

DATE: 16 DECEMBER 2024

GENERAL NOTES

M1-0

SCALE N.T.S

TRANE

Job Name: Inkster Senior Society 2024
Prepared For:
Unit Tag: PREC-1
Quantity: 1

Trane Precedent Packaged Rooftop

Unit Overview - YSJ180A4S0HP400A1A1000000000000000000**

Application	Unit Size	Supply Fan		External Dimensions (in.)			Operating Weight	EER	IEER/SEER	Elevation
		Airflow	Total Static Pressure	Height	Width	Length				
DX Cooling / Gas Heat	15 Ton	6000 cfm	0.734 in H2O	4.92 ft	7.25 ft	10.25 ft	2423.0 lb	10.80	14.50	0.00 ft

Unit Features

Through the Base Provisions	Electric
Disconnect / Circuit Breaker	Non-Fused Disconnect Switch
Convenience Outlet	Unpowered 20A Convenience Outlet
Fresh Air Selection	Downflow Low Leak Econ, CE with BR

Unit Electrical

Voltage/phase/hertz	460/60/3
MCA	41.00 A
MOP	50.00 A
Condenser Fan FLA	1.10 A
Evaporator Fan FLA	4.60 A
Compressor 1 RLA	16.70 A
Compressor 2 RLA	8.20 A
Compressor Power	12.86 kW
System Power	17.33 kW

Controls

Unit Controls	Symbio 700
Communications Option	Advanced Controls and BACnet BAS
SupplyFan/Drive/MotorType	Multiple Zone VAV with Standard Motor

Cooling Section

Entering Dry Bulb	80.00 F	Capacity	
Entering Wet Bulb	67.00 F	Gross Total	189.30 MBh
Ambient Temp	95.00 F	Gross Latent	42.36 MBh
Leaving Coil Dry Bulb	57.21 F	Gross Sensible	146.94 MBh
Leaving Coil Wet Bulb	56.90 F	Net Total	184.63 MBh
Leaving Unit Dry Bulb	58.40 F	Net Sensible	142.27 MBh
Leaving Unit Wet Bulb	57.37 F	Net Sensible Heat Ratio	77.06 %
Saturated Discharge Temperature	121.44 F	Fan Motor Heat	0.81 MBh
Saturated Suction Temperature	51.23 F	Refrig Charge-Circuit 1	14.5 lb

Heating Section

Heating	High Gas Heat
Input Heating Capacity	400.00 MBh
Output Heating Capacity	324.00 MBh
Heating EAT	50.00 F
Heating LAT	99.26 F
Heating Temp Rise	49.26 F

Fan Section

Indoor Fan Data		Indoor Fan Performance	
Airflow Application	Downflow	Airflow	6000 cfm
Design ESP	0.500 in H2O	Supply Motor Horsepower	3.000 hp
Component SP	0.234 in H2O	Indoor Motor Operating Power	1.625 hp
Heat SP	0.000 in H2O	Indoor RPM	1077 rpm
Total SP	0.734 in H2O	Outdoor Fan Data	
Supply Fan Count	2.00 Number	Outdoor Fan Drive Type	Direct
Indoor Fan Drive Type	Variable Direct	Outdoor Fan Quantity	2.00 Number
Indoor Fan Quantity	2.00 Number	Outdoor Fan Type	Propeller
Indoor Fan Type	BC Plenum		

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1 M1-1 RTU-1
SCALE:NTS

FAN SCHEDULE

MARK	SERVICE	TYPE	MANUFACTURER / MODEL	AIR FLOW (CFM)	ESP (IN WG)	EC MOTOR (Y or N)	DRIVE TYPE	SPEED (RPM)	NOMINAL MOTOR (HP)	DAMPER TYPE	VOLTAGE/ PHASE	STARTER/ DSCNNCT MEANS	NOTES
EF-1	KITCHEN EXHAUST	UTILITY SET, INDOOR	GREENHECK / GRRS-W-36-T-E-D-N	500		YES	DIRECT			GRAVITY	120/1	DISC.	3
EF-2	BATHROOM EXHAUST	UPBLAST DOME	GREENHECK / CUE-90	300	0.50	NO	BELT	1600	0.1	GRAVITY	120/1	DISC.	1,2

NOTES:
1. PROVIDE STARTING AND DISCONNECTING MEANS AS SCHEDULED. (MRS = MOTOR RATED SWITCH; MS/D = COMBINATION MOTOR-STARTER AND DISCONNECT; VFD = VARIABLE FREQUENCY DRIVE; AND DISC = DISCONNECT)
2. PROVIDE FACTORY-FABRICATED ROOF CURB. COORDINATE EXACT LOCATION OF ROOF OPENINGS AND STRUCTURAL SUPPORT.
3. PROVIDE GREENHECK GREASE EXHAUST HOOD WITH INTEGRAL EXHAUST FAN PROVIDED BY MANUFACTURER. PROVIDE MANUAL PULL STATION AND INTEGRATED FIRE SUPPRESSION SYSTEM WITH RECESSED LED LIGHTS, SYSTEM CONTROLS, AND GREASE FILTER. MUST BE NFPA COMPLIANT.

TERMINAL UNIT SCHEDULE

MARK	SOURCE	TYPE	MANUFACTURER / MODEL	AREA SERVED	PRIMARY AIR VALVE				HEATING COIL							NOTES
					INLET SIZE (INCHES)	MAX. CLG. AIRFLOW (CFM)	MIN. CLG. AIRFLOW (CFM)	HEATING AIRFLOW (CFM)	AIR COIL FLOW (CFM)	EAT (F)	LAT (F)	MAX. APD (IN WG)	ELECTRIC MIN. CAP. (KW)	ELECTRIC DESIGN (KW)	VOLTAGE/ PHASE	
VAV-1	RTU-1	SINGLE-DUCT	TRANE VCEF	ARTS & CRAFTS	6	500	150	150	150	52	90	0.25	1.8	2.0	120/1	
VAV-2	RTU-1	SINGLE-DUCT	TRANE VCEF	RECEP / ARTS & CRAFTS	10	1,255	375	375	375	52	90	0.04	4.5	5.0	480/3	
VAV-3	RTU-1	SINGLE-DUCT	TRANE VCEF	COMPUTER LAB	10	1,135	340	340	340	52	90	0.04	4.1	5.0	480/3	
VAV-4	RTU-1	SINGLE-DUCT	TRANE VCEF	MULTIPURPOSE ROOM	10	1,135	300	340	340	52	90	0.03	4.1	5.0	480/3	
VAV-5	RTU-1	SINGLE-DUCT	TRANE VCEF	LOUNGE	5	270	85	135	135	52	90	0.02	1.6	2.0	120/1	
VAV-6	RTU-1	SINGLE-DUCT	TRANE VCEF	KITCHEN / BATH / STORAGE / OFFICE	12	1,985	595	595	595	52	90	0.08	4.0	4.5	480/3	

NOTES:
1. SUPPLY AIR BRANCH DUCTS FROM MAIN TO TERMINAL UNIT INLETS AND DISCHARGE DUCT SIZES SHALL MATCH UNIT CONNECTION SIZES UNLESS OTHERWISE NOTED.
2. COORDINATE CONTROL POWER TRANSFORMER INPUT VOLTAGE WITH THE LINE VOLTAGE PROVISIONS.
3. PROVIDE SINGLE POINT CONNECTION AND FUSED DISCONNECT SWITCH FOR EACH TERMINAL UNIT WITH AN ELECTRIC REHEAT COIL.
4. PROVIDE SCR CONTROLLER FOR ELECTRIC HEATING COILS. COIL CAPACITIES SHALL BE NO LESS THAN MINIMUM AND NO MORE THAN THE ELECTRICAL DESIGN BASIS SCHEDULED.
5. FOR UNITS WITH ELECTRIC REHEAT, CONTRACTOR SHALL ADJUST HEATING MINIMUM AIR FLOWS AS REQUIRED TO ENSURE PROPER OPERATION OF ELECTRIC HEAT.

AIR DISTRIBUTION SCHEDULE

MARK	SERVICE	TYPE	MANUFACTURER / MODEL	MATERIAL	COLOR	PATTERN	MAX AIR FLOW (CFM)	FACE SIZE (IN x IN)	NECK SIZE (IN x IN)	APD (IN WG)	MAX SOUND (NC)	NOTES
S1	SUPPLY	STANDARD BLADE GRILLE	NAILOR 51DHO	ALUMINUM	WHITE	90 DEG.	300	14 x 8	12 x 6	0.08	30	1,2,3,4,5,6
S2	SUPPLY	SQUARE PLAQUE FACE	TITUS OMNI	ALUMINUM	WHITE	360 DEG.	200	24 x 24	8	0.08	20	1,2,3,4,5,6
S3						360 DEG.	325	24 x 24	10	0.08		
S4	SUPPLY	LINEAR SLOT DIFFUSER	NAILOR 5800 SERIER	ALUMINUM	WHITE	3 SLOT	300	48 x 6	12" OVAL	0.08	20	1,2,3,4,5,6,7
R1	RETURN	SQUARE PERFORATED FACE	TITUS PAR	ALUMINUM	WHITE	N/A	625	24 x 24	22 x 22	0.08	20	1,2,3,4,5,6
R2	RETURN	LINEAR SLOT DIFFUSER	NAILOR 5015R	ALUMINUM	WHITE	4 SLOT	240	N/A	N/A	0.07	24	1,2,3,4,5,6
E1	EXHAUST	STANDARD BLADE GRILLE	NAILOR 5145H	ALUMINUM	WHITE	N/A	325	14 x 8	12 x 6	0.10	20	1,2,3,4,5,6

NOTES:
1. COORDINATE COLOR WITH ARCHITECTURAL CEILING COLOR.
2. SOUND LEVELS SHALL BE BASED ON ASHRAE 70.
3. VERIFY MOUNTING FRAME STYLE WITH ARCHITECTURAL REFLECTED CEILING PLANS, FINISH SCHEDULES AND EXISTING CEILINGS.
4. DUCT BRANCH FROM MAIN TAKEOFF TO AIR INLET / OUTLET SHALL MATCH SCHEDULED NECK SIZE UNLESS OTHERWISE NOTED.
5. PROVIDE FACTORY BAKED ENAMEL FINISH. COORDINATE COLORS WITH ARCHITECT ON ALL SPECIALTY CEILINGS.
6. PROVIDE INTEGRAL DAMPERS ADJUSTABLE AT THE DEVICE FACE ONLY AT LOCATIONS NOTED ON PLANS.
7. PROVIDE WITH EXTERNALLY INSULATED PLENUM.

RCD KEC

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SCHEDULES

M1-1

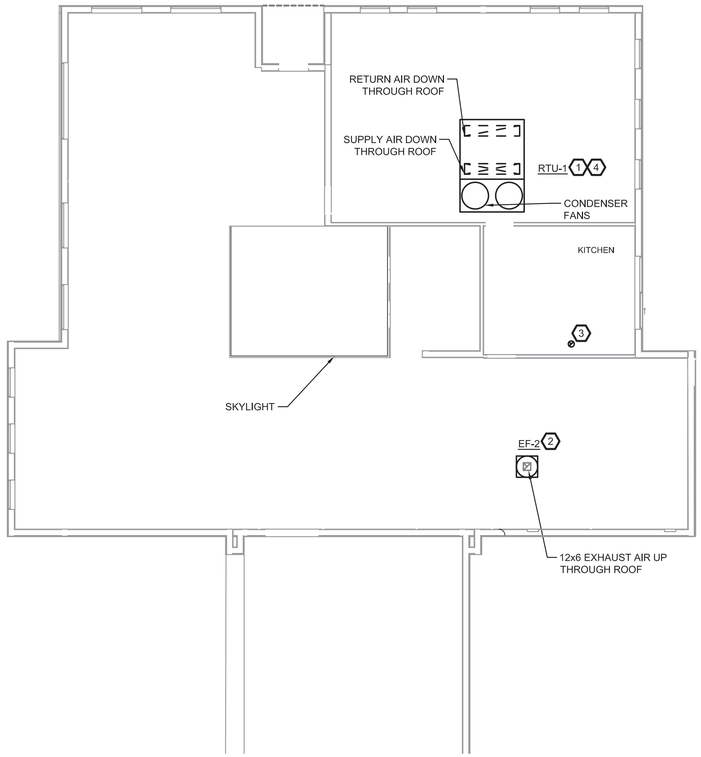
SCALE N.T.S

GENERAL NOTES

1. REFER TO SHEET M1-0 FOR LEGEND AND ABBREVIATIONS.

NEW WORK KEYED NOTES:

1. PROVIDE RTU-1 WITH MIN. 6" ROOF CURB WITH FLASHING. SLOPE ROOF TOWARD ROOF DRAINS, REFER TO PLUMBING PLANS FOR ROOF DRAIN LOCATION. COORDINATE UNIT PLACEMENT WITH ROOFING CONTRACTOR AND PLUMBING CONTRACTOR TO ENSURE ADEQUATE ROOF DRAINAGE AND FIELD VERIFY LOCATION OF ROOF DRAINS AND UNIT PLACEMENT. PROVIDE CONDENSATE DRAIN WITH P-TRAP. REFER TO PLUMBING PLANS FOR GAS PIPING. MECHANICAL CONTRACTOR TO PROVIDE REQUIRED GAS REGULATOR AND VALVE TRAIN PER IFGC STANDARDS FOR EQUIPMENT CONNECTION. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTION OF GAS PIPING TO UNIT. REFER TO M4-1 FOR CONTROLS.
2. EF-2 TO RUN CONTINUOUSLY. PROVIDE ROOF CURB WITH FLASHING. COORDINATE LOCATION WITH STORM DRAIN LOCATION. REFER TO PLUMBING PLANS.
3. KITCHEN EXHAUST DUCT THROUGH ROOF. PROVIDE WIRE MESH BIRDSCREEN AND RAIN CAP. FLASH ROOFING TO PROVIDE WATERTIGHT SEAL.
4. PROVIDE ARCHITECTURAL SCREEN AS REQUIRED BY ARCHITECT AND OWNER TO SCREEN MECHANICAL EQUIPMENT FROM VIEW FROM BOTH THE STREET AND THE INSIDE OF THE BUILDING.



1 NEW ADDITION MECHANICAL ROOF PLAN
M2-0 SCALE:1/8" = 1'-0"

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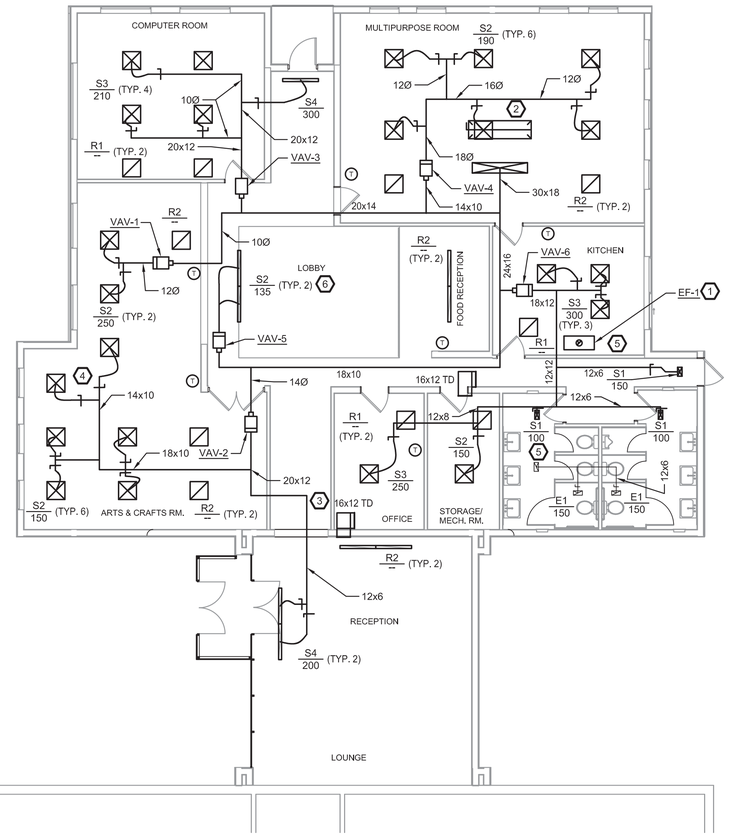
MECHANICAL ROOF PLAN

M2-0

SCALE 1/8" = 1'-0"



1 P2-1 NEW ADDITION HVAC PLAN
SCALE:1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET M1-0 & M1-1 FOR FURTHER INFORMATION.
2. REFER TO ARCHITECTURAL PLANS FOR FINAL KITCHEN EQUIPMENT LIST, CUTSHEETS, AND DETAILS.
3. CCONTRACTOR SHALL COORDINATE ALL FINAL KITCHEN EQUIPMENT CONNECTIONS AND PLUG CONFIGURATIONS WITH MANUFACTURER PRIOR TO ROUGH-IN.
4. OPEN PLENUM RETURN CEILING. PROVIDE 18x18 Z TRANSFER DUCT AT ALL FULL HEIGHT WALLS.
5. PROVIDE MANUAL BALANCING DAMPERS ON ALL RUNOUTS TO SUPPLY GRILLES. FLEX DUCT LENGTH NOT TO EXCEED 5' PER IMC.
6. PROVIDE MINIMUM R-6 1.5" THICK FIBERGLASS BLANKET DUCT INSULATION. INSULATE SUPPLY AND RETURN DUCT. DO NOT INSULATE EXHAUST DUCT.

NEW WORK KEYED NOTES: (#)

1. PROVIDE KITCHEN EXHAUST FAN AND HOOD. REFER TO M1-1 FOR EQUIPMENT SPECIFICATIONS. INSTALL GREASE EXHAUST DUCT PER IMC STANDARDS.
2. PROVIDE 74x15 RETURN DUCT WITH BELLMOUTH OPENING FOR PLENUM RETURN. PROVIDE MANUAL BALANCING DAMPER. BALANCE TO RA INDICATED IN SCHEDULE, SHEET M1-1.
3. PROVIDE COMBINATION FIRE / SMOKE DAMPER AT DUCT PENETRATIONS THROUGH EXISTING EXTERIOR WALL.
4. PROVIDE FLEX DUCT TO DIFFUSER (TYP.) LENGTH OF FLEX DUCT SHALL NOT EXCEED 5 FT. SIZE TO MATCH CONNECTION TO DIFFUSER.
5. EXHAUST DUCT UP THROUGH ROOF.
6. INSTALL LINEAR SLOT DIFFUSERS HORIZONTALLY IN BULKHEAD OF SKYLIGHT TO DISCHARGE AIR OUT OVER ATRIUM SPACE.

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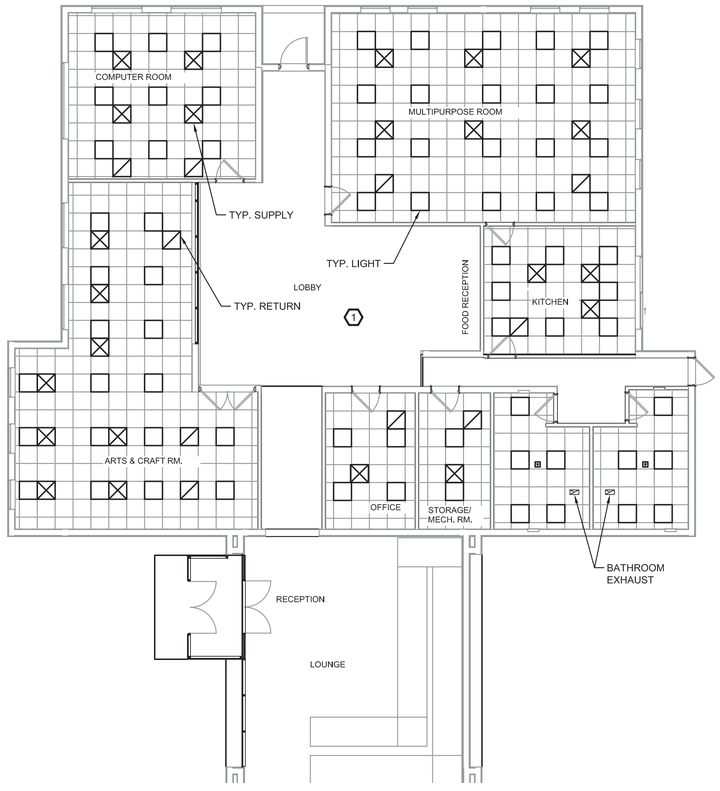
HVAC PLAN

M2-1

SCALE 1/8" = 1'-0"



1 NEW ADDITION CEILING DIFFUSER PLAN
P2-1 SCALE:1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET M1-0 & M1-1 FOR FURTHER INFORMATION.
2. REFER TO ARCHITECTURAL PLANS FOR FINAL KITCHEN EQUIPMENT LIST, CUTSHEETS, AND DETAILS.
3. CCONTRACTOR SHALL COORDINATE ALL FINAL KITCHEN EQUIPMENT CONNECTIONS AND PLUG CONFIGURATIONS WITH MANUFACTURER PRIOR TO ROUGH-IN.
4. OPEN PLENUM RETURN CEILING. PROVIDE 18x18 Z TRANSFER DUCT AT ALL FULL HEIGHT WALLS.
5. PROVIDE MANUAL BALANCING DAMPERS ON ALL RUNOUTS TO SUPPLY GRILLES. FLEX DUCT LENGTH NOT TO EXCEED 5' PER IMC.
6. PROVIDE MINIMUM R-6 1.5" THICK FIBERGLASS BLANKET DUCT INSULATION. INSULATE SUPPLY AND RETURN DUCT. DO NOT INSULATE EXHAUST DUCT.

NEW WORK KEYED NOTES: (#)

1. REFER TO M2-1 FOR SUPPLY AND RETURN DIFFUSER AIRFLOW AND SIZING. THIS SHEET IS INTENDED TO SHOW OVERALL DIFFUSER LAYOUT IN RCP.

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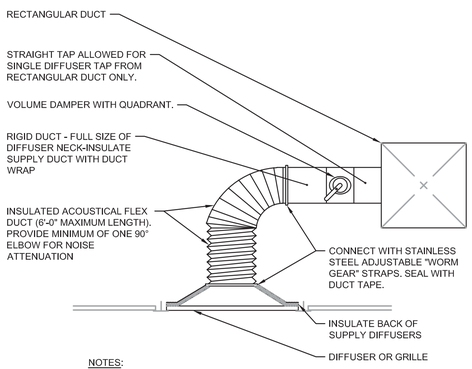
DIFFUSER PLAN

M2-2

SCALE 1/8" = 1'-0"

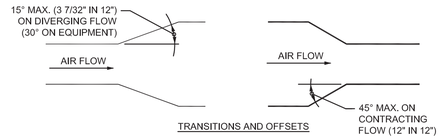


NOTES:

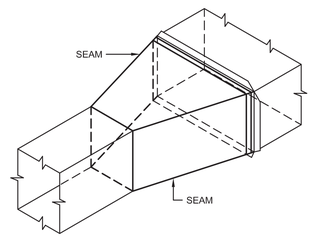
1. PROVIDE VOLUME DAMPERS ON RUNOUTS TO ALL DIFFUSERS AND GRILLES EXCEPT DO NOT INSTALL A VOLUME DAMPER ON A SUPPLY WHEN THERE IS ONLY ONE SUPPLY OUTLET ON TERMINAL BOX.
2. LOCATE DAMPER WHERE ACCESSIBLE.
3. STANDOFF REQUIRED FOR DAMPER HANDLE ON ALL INSULATED DUCT.

1 DIFFUSER DETAIL

M3-1 SCALE:NTS



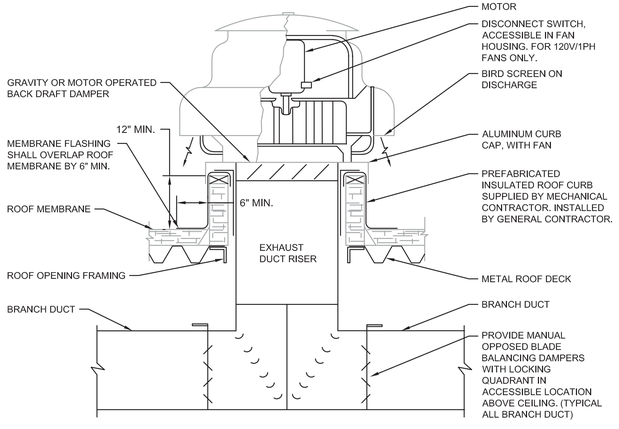
TRANSITIONS AND OFFSETS



LARGEST DIMENSION GOVERNS CONSTRUCTION
CROSS BREAK OR BEAD FOR DUCT PAGE 1-36
(SMACNA LOW PRESSURE STAND. 5th ED.)

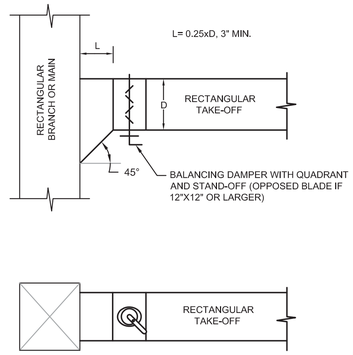
3 DUCT TRANSITION DETAIL

M3-1 SCALE:NTS



6 ROOF MOUNTED EXHAUST FAN

M3-1 SCALE:NTS

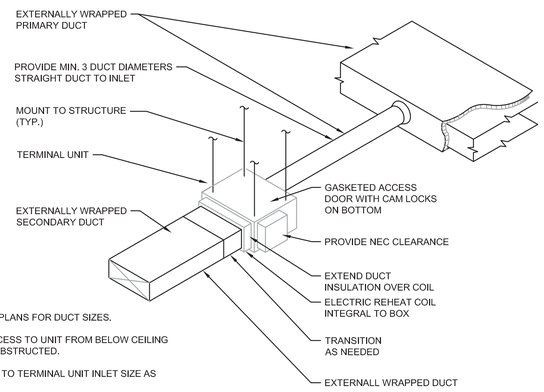


NOTES:

1. PROVIDE 45° LATERAL WYE TAKE-OFFS.
2. WHEN SPACE DOES NOT ALLOW 45° LATERAL WYE TAKE-OFF, USE 90° CONICAL TEE CONNECTIONS.
3. STRAIGHT IN FACTORY BUILT CONNECTIONS ARE PERMITTED FOR:
   A. SINGLE DIFFUSER, GRILLE OR REGISTER RUNOUTS FOR EXHAUST OR RETURN AIR APPLICATIONS.
   B. SINGLE DIFFUSER, GRILLE OR REGISTER RUNOUTS ON THE LOW PRESSURE SIDE OF TERMINAL BOXES.
4. STANDOFF REQUIRED FOR DAMPER HANDLE ON ALL INSULATED DUCT.

2 DUCT TAKE-OFF DETAIL

M3-1 SCALE:NTS

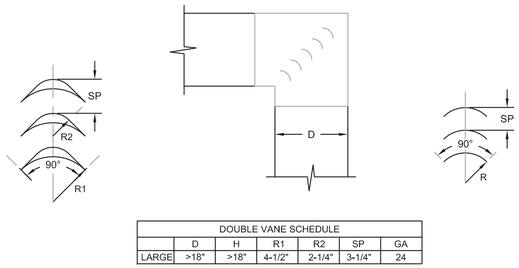


NOTES:

1. SEE FLOOR PLANS FOR DUCT SIZES.
2. ENSURE ACCESS TO UNIT FROM BELOW CEILING GRID IS UNOBSTRUCTED.
3. TRANSITION TO TERMINAL UNIT INLET SIZE AS SPECIFIED.
4. CONTROL BOX SHALL BE ON THE SAME SIDE AS ELECTRIC HEATER CONTROLLER.
5. GASKETED ACCESS DOORS PER SPECIFICATIONS.

4 ELECTRIC REHEAT VAV

M3-1 SCALE:NTS



DOUBLE VANE SCHEDULE						
	D	H	R1	R2	SP	GA
LARGE	>18"	>18"	4-1/2"	2-1/4"	3-1/4"	24

SINGLE VANE SCHEDULE					
	D	H	R	SP	GA
SMALL	≤18"	≤18"	2"	1-1/2"	24

MAXIMUM UNSUPPORTED VANE LENGTH LARGE DOUBLE VANE 72"

NOTES:

1. SINGLE VANES ALLOWED IN ELBOWS LESS THAN OR EQUAL TO 18" X 18".
2. TURNING VANES NOT REQUIRED IN ELBOWS SMALLER THAN 12" X 12"

5 MITRED ELBOW DETAIL

M3-1 SCALE:NTS

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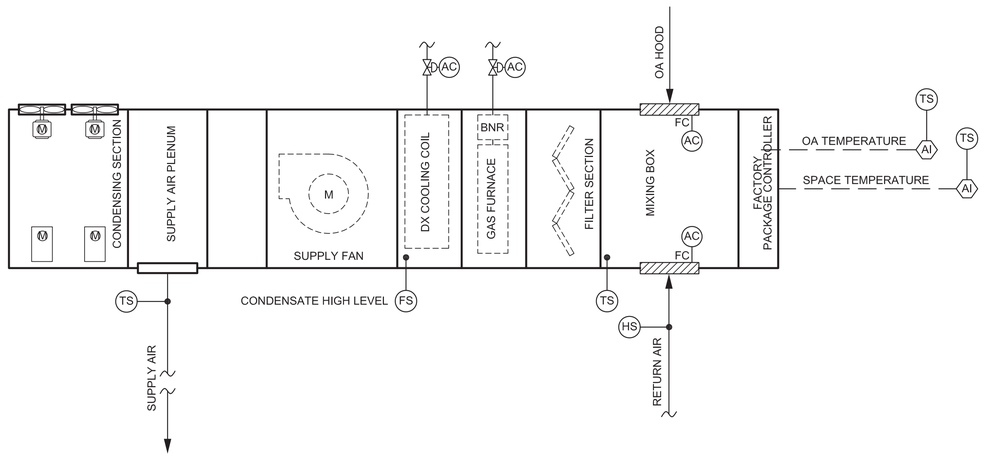
DETAILS

M3-1

SCALE N.T.S.

File Path



NOTES:
1. RTU SHALL OPERATE WITH THE FACTORY PACKAGED UNIT CONTROLLER.

BAS CONTROL SYSTEM GENERAL NOTES

EQUIPMENT WITH PACKAGED CONTROLS: HVAC EQUIPMENT THAT COMES EQUIPPED WITH FACTORY-INSTALLED PACKAGED CONTROLS .

PROVIDE A PROGRAMMABLE 24 HOUR, 7 DAY/WEEK THERMOSTAT.

ENERGY CONSERVATION MODES

DRY BULB ECONOMIZER MODE: WHEN OUTSIDE AIR TEMPERATURE IS BETWEEN 40F AND 68F, ENABLE “FREE COOLING”.

ECONOMIZER / COOLING CHANGEOVER: SWITCH FROM COOLING MODE TO ECONOMIZER MODE WHEN OA TEMPERATURE DROPS 3F BELOW ECONOMIZER COOLING SET POINT. SWITCH FROM ECONOMIZER MODE TO COOLING MODE WHEN OA TEMPERATURE RISES ABOVE ECONOMIZER COOLING SET POINT.

ECONOMIZER COOLING SET POINT = 68F

SUPPLY AIR FAN CONTROL

IN RESPONSE TO CALL FOR HEATING OR COOLING FROM SPACE THERMOSTAT. ECM MOTOR SHALL VARY THE SPEED OF THE SUPPLY FAN IN RESPONSE TO SPACE TEMPERATURE. AS COOLING LOAD DECREASES, THE FAN SHALL MODULATE FROM MAXIMUM TO MINIMUM SPEED. WHEN THE UNIT SWITCHES TO HEATING MODE, THE SUPPLY FAN SHALL RUN AT MAXIMUM SPEED UNTIL SYSTEM REACHES SETPOINT.

OUTSIDE AIR DAMPER CONTROL (FAIL CLOSED)

OCCUPANCY MODES: OPEN TO MINIMUM POSITION UPON INITIATION OF OCCUPIED MODE. CLOSE UPON INITIATION OF UNOCCUPIED MODE, UNLESS ECONOMIZER MODE IS INITIATED.

WHEN THE UNIT IS OFF, OA DAMPER SHALL BE CLOSED.

ECONOMIZER MODES: MODULATE OA DAMPER UP TO 100% OPEN TO MAINTAIN ZONE TEMPERATURE SET POINT UPON INITIATION OF ECONOMIZER MODE.

DX REFRIGERANT COIL CONTROL

PACKAGED CONTROLS SHALL OPERATE TO MAINTAIN TEMPERATURE AND HUMIDITY SET POINT OF 74°F (ADJUSTABLE), 50% RH.

GAS-FIRED HEAT EXCHANGER CONTROL

PACKAGED CONTROLS SHALL OPERATE TO MAINTAIN TEMPERATURE SET POINT OF 68°F (ADJUSTABLE).

SAFETY CONTROLS

CONDENSATE LEVEL SHUTDOWN CONTROL: SHUT DOWN COOLING WHEN CONDENSATE DRAIN PAN HIGH-LEVEL SWITCH INDICATES HIGH-LEVEL.

UNIT SHALL SHUT DOWN BASED ON INTERNAL SAFETIES.

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CONTROLS

M4-1

SCALE 1/8" = 1'-0"

GENERAL NOTES - PLUMBING

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS AND/OR SIZES OF EXISTING PLUMBING, MECHANICAL, OR ELECTRICAL OR STRUCTURAL FEATURES, ETC. CONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE THE START OF CONSTRUCTION. CONTRACTORS SHALL COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS DURING CONSTRUCTION. CONTRACTORS SHALL CONSULT SPECIFICATIONS FOR CONSTRUCTION MATERIALS AND STANDARDS.
2. WHERE AFFECTED BY THE NEW OR DEMOLITION WORK CONTRACTOR SHALL RELOCATE ANY EXISTING PIPING, COMPONENTS OR SYSTEMS THAT ARE REQUIRED TO REMAIN IN ORDER TO KEEP EXISTING SYSTEM OPERATIVE.
3. ALL WORK SHALL CONFORM WITH ALL APPLICABLE BUILDINGS CODES, FIRE CODES, AND ALL AUTHORITIES HAVING JURISDICTION. THIS INCLUDES BUT IS NOT LIMITED TO IBC, IPC, AND MICHIGAN STATE BUILDING CODES.
4. SUPPORT PLUMBING PIPING SYSTEMS PER MSS-SP-58 & MSS-SP-69.
5. UNLESS OTHERWISE NOTED, THE PIPE DIAMETERS INDICATED ON THE DRAWING FOR SANITARY, WASTE AND VENT, REFER TO NOMINAL CAST IRON PIPE SIZES. FOR DOMESTIC SERVICE, WHERE THE USE OF COPPER TUBING IS PERMITTED BY THE SPECIFICATIONS, THE DIAMETER INDICATED ON THE DRAWING REFERS TO THE NOMINAL TUBING SIZE.

PIPE INSULATION SCHEDULE

	PIPE MATERIAL INFORMATION		
SYSTEM	MATERIAL	THICKNESS	REMARKS
DOMESTIC COLD WATER	FLEXIBLE ELASTOMERIC	3/8"	1
TEMPERED & HOT WATER	FLEXIBLE ELASTOMERIC	3/8"	1

REMARKS:

1. PROVIDE ANSI 13.1 LABELS AND FLOW ARROWS.

PIPE MATERIAL SCHEDULE

	PIPE MATERIAL INFORMATION			
SYSTEM	MATERIAL	THICKNESS	JOINTS	REMARKS
DRAINAGE, WASTE, & VENT	PVC	SCH. 40	SOLVENT WELD	1,2
DOMESTIC COLD WATER	COPPER	TYPE L	PRESS FIT	1,3,4,5,6,8
DOMESTIC HOT WATER	COPPER	TYPE L	PRESS FIT	1,3,4,5,6,8
NATURAL GAS	STEEL	SCH. 40	THREADED	7

REMARKS:

1. SOLVENT CEMENT ELASTOMERIC CONNECTIONS.
2. PIPE MATERIAL AND INSULATION FOR PIPING AFTER SERVICE ENTRANCE ABOVE GRADE. REFER TO CIVIL PLANS FOR BELOW GRADE PIPING SPECIFICATIONS.
3. PROVIDE DIELECTRIC UNIONS AT CONNECTIONS WITH DISSIMILAR METALS.
4. PRESS FIT FITTINGS TO CONFORM WITH ASME B16.18 OR ASME B16.22.
5. PROVIDE EPDM, FKM, OR HNBR SEALING ELEMENTS FOR PRESS FIT FITTINGS.
6. PLASTIC PIPING IN COMPLIANCE WITH IPC STANDARDS IS ALLOWABLE AS AN ALTERNATIVE FOR COPPER PIPING.
7. PAINT GAS PIPING YELLOW. INSTALL PER IFGC.
8. PER REVIEW BY COUNTY OFFICIALS AND OWNER APPROVAL, PEX TUBING MAY BE SUBSTITUTED FOR COPPER TYPE L FITTINGS.

WATER HEATER SCHEDULE

MARK	TYPE	MANUFACTURER / MODEL	TEMP. SETTING (F)	TEMP. RISE (F)	STORAGE CAPACITY (GALLONS)	FIRST HOUR RECOV RATE (GPH)	CONTINUOUS RECOV RATE (GPH)	HEATING CAPACITY (MBH)	ELECTRIC NO. OF ELEMENTS	ELECTRIC CAP./ELEM (KW)	ELECTRIC VOLTAGE/ PHASE	NOTES
EWH-1	ELECTRIC TANK	AO SMITH / DEL-40D-4.5	140	100	40	51	19	15.8	1	4.5	208/3	ALL

NOTES:

1. PROVIDE SINGLE-POINT ELECTRICAL CONNECTION AND FUSED-DISCONNECT SWITCH.
2. PROVIDE 4-INCH DEEP CONCRETE PAD THAT IS 4-INCHES LONGER AND WIDER THAN UNIT FOOTPRINT.

GENERAL LEGEND

- CONNECTION POINT NEW TO EXISTING
- TERMINATION POINT, DEMOLITION TO EXISTING
- KEY NOTES
- DARKER LINES INDICATE DEMOLITION OR NEW WORK
- LIGHTER LINES INDICATE EXISTING TO REMAIN IN SERVICE
- PIPING BELOW FLOOR OR SLAB

PLUMBING LEGEND

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- SANITARY SEWER
- VENT / GAS
- DIRECTION OF FLOW
- ELBOW, TURNED UP
- ELBOW, TURNED DOWN
- TEE
- TEE, UP
- TEE, DOWN
- UNION
- SHUTOFF VALVE
- CHECK VALVE, SWING
- THERMOSTATIC BALANCING VALVE

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	CW	COLD WATER
ABV	ABOVE	HW	HOT WATER
ADA	AMERICANS WITH DISABILITIES ACT	HWR	HOT WATER RETURN
BEL	BELOW	SAN	SANITARY
BFF	BELOW FINISHED FLOOR	V	VENT
CLG	CEILING	W	WASTE PIPE

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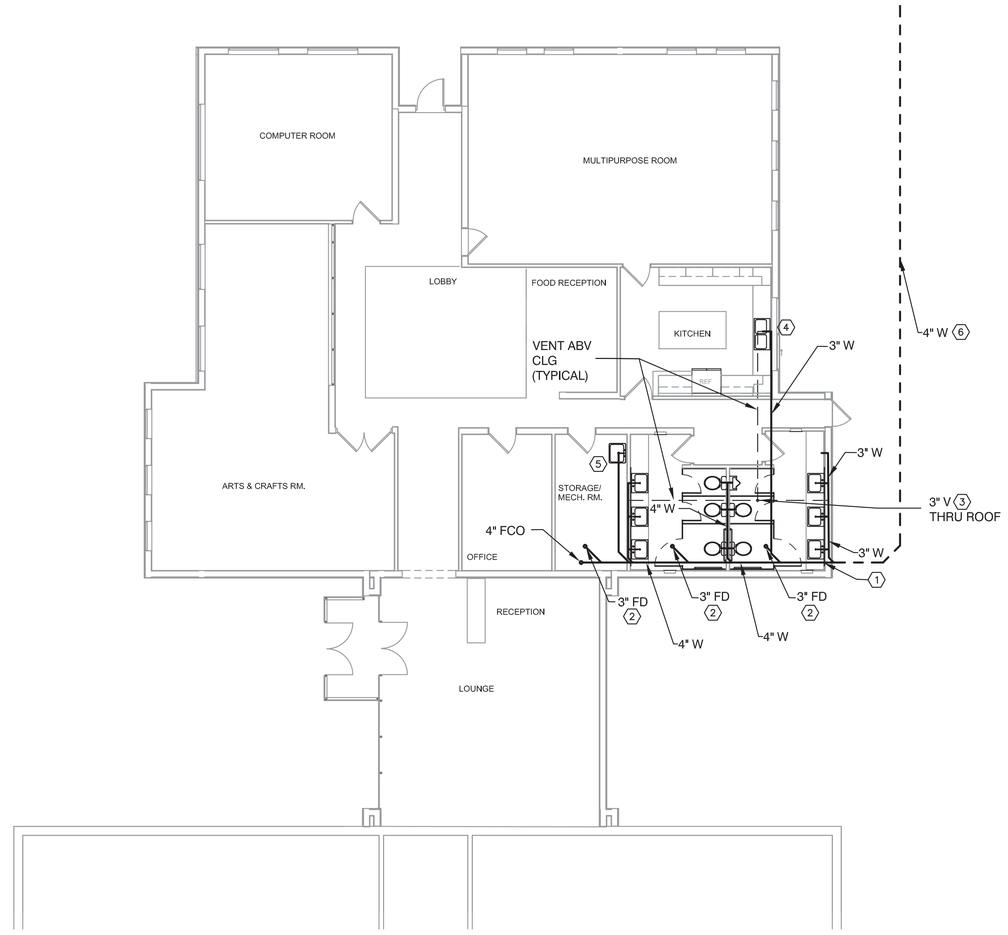
GENERAL NOTES

P1-0

SCALE N.T.S



1 P2-0 NEW ADDITION SANITARY PLAN
SCALE:1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET P1-0 FOR LEGEND AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL PLANS FOR FINAL KITCHEN EQUIPMENT LIST, CUTSHEETS, AND DETAILS.
3. CONTRACTOR SHALL COORDINATE ALL FINAL KITCHEN EQUIPMENT CONNECTIONS AND PLUG CONFIGURATIONS WITH MANUFACTURER PRIOR TO ROUGH-IN.
4. CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURE CONNECTIONS AND CONFIGURATIONS WITH MANUFACTURER PRIOR TO ROUGH IN.
5. REFER TO ARCHITECTURAL PLANS FOR PLUMBING FIXTURE SPECIFICATIONS.
6. SLOPE ALL PIPING MINIMUM 1%.

NEW WORK KEYED NOTES: (#)

1. CONTRACTOR SHALL PROVIDE WALL CLEAN OUT. INSTALL PER IPC.
2. PROVIDE 3" FLOOR DRAIN. COORDINATE DRAIN FINISH WITH ARCHITECT.
3. PROVIDE VENT THROUGH ROOF WITH WIRE MESH SCREEN AND RAIN CAP. EXTEND VENT ABOVE SNOW LINE.
4. PROVIDE INDIRECT DRAIN WITH GREASE COLLECTOR.
5. PROVIDE FLOOR MOUNTED MOP SINK FOR CUSTODIAN. REFER TO ARCH FOR PRODUCT SPECIFICATIONS.
6. NEW 4" WASTE LINE TO PALMER ST. COORDINATE WITH CIVIL CONTRACTOR AND LOCAL AUTHORITIES HAVING JURISDICTION FOR FINAL CONNECTION. PLUMBING CONTRACTOR TO PROVIDE PIPING TO 5' OUTSIDE BUILDING. CIVIL CONTRACTOR TO PROVIDE PIPING FROM PALMER ST TIE IN TO BUILDING ENTRANCE.

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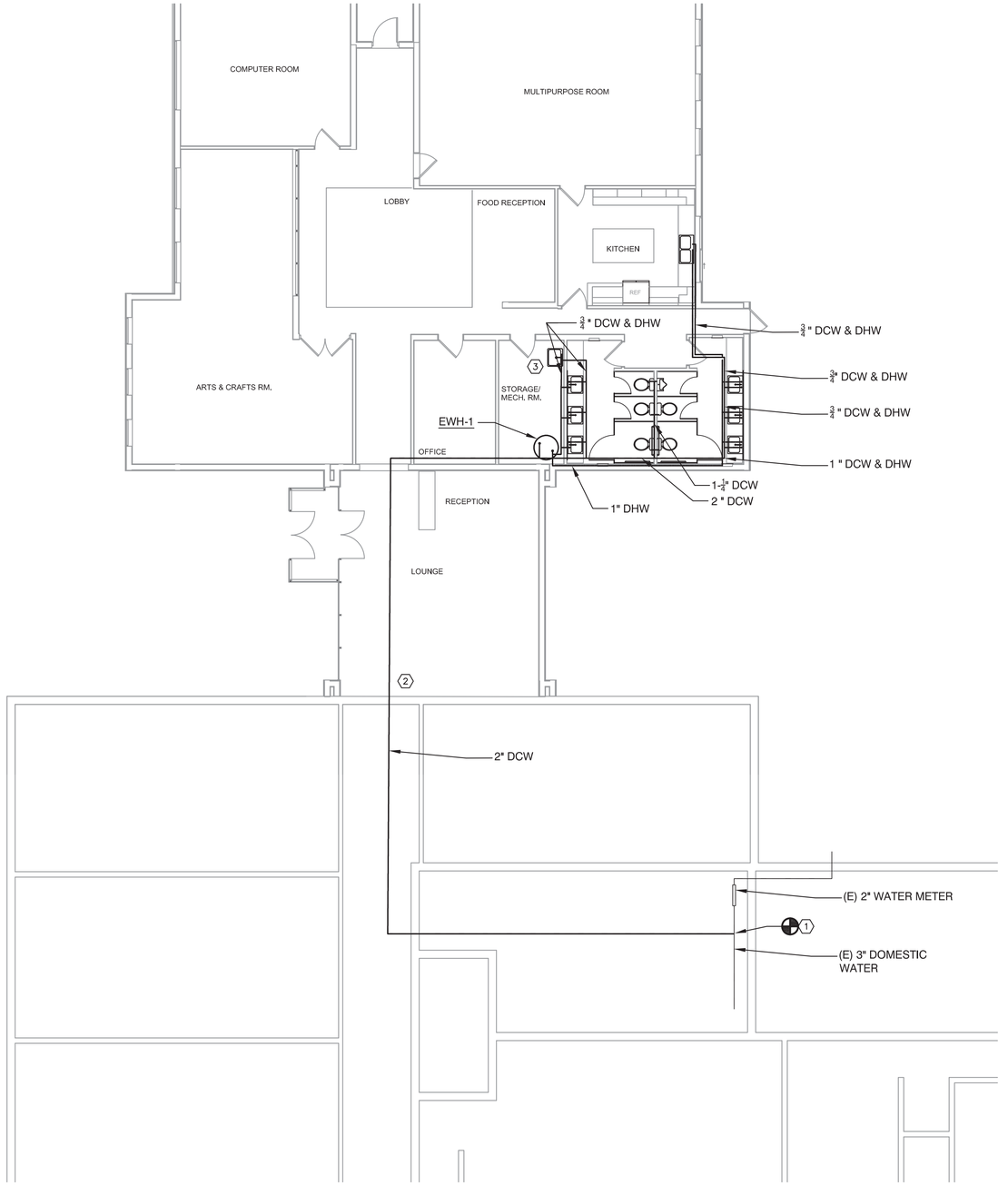
PLUMBING SANITARY PLAN

P2-0

SCALE 1/8" = 1'-0"



1 NEW ADDITION WATER PLAN
P2-1 SCALE:1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET P1-0 FOR FURTHER INFORMATION.
2. REFER TO ARCHITECTURAL PLANS FOR FINAL KITCHEN EQUIPMENT LIST, CUTSHEETS, AND DETAILS.
3. CCONTRACTOR SHALL COORDINATE ALL FINAL KITCHEN EQUIPMENT CONNECTIONS AND PLUG CONFIGURATIONS WITH MANUFACTURER PRIOR TO ROUGH-IN.
4. CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURE CONNECTIONS AND CONFIGURATIONS WITH MANUFACTURER PRIOR TO ROUGH IN.
5. PROVIDE HOT WATER AND COLD WATER ISOLATION VALVES AT EACH PLUMBING FIXTURE.

NEW WORK KEYED NOTES: (#)

1. TIE INTO EXISTING DCW DOWNSTREAM OF WATER METER AND BACKFLOW PREVENTER. PROVIDE DIELECTRIC UNION BETWEEN DISSIMILAR METALS. PROVIDE ISOLATION VALVES AT EACH BRANCH OF NEW CONNECTION TO PROVIDE DOWNSTREAM ISOLATION OF EXISTING SYSTEM AND NEW ADDITION.
2. PROVIDE FIRE RATED PENETRATION AT EXISTING EXTERIOR WALL. PROVIDE ADDITIONAL FIRE RATED PENETRATIONS AS REQUIRED BY CODE AT ALL RATED WALLS.
3. PROVIDE FLOOR MOUNTED MOP SINK FOR CUSTODIAL PURPOSES.

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WATER PLAN

P2-1

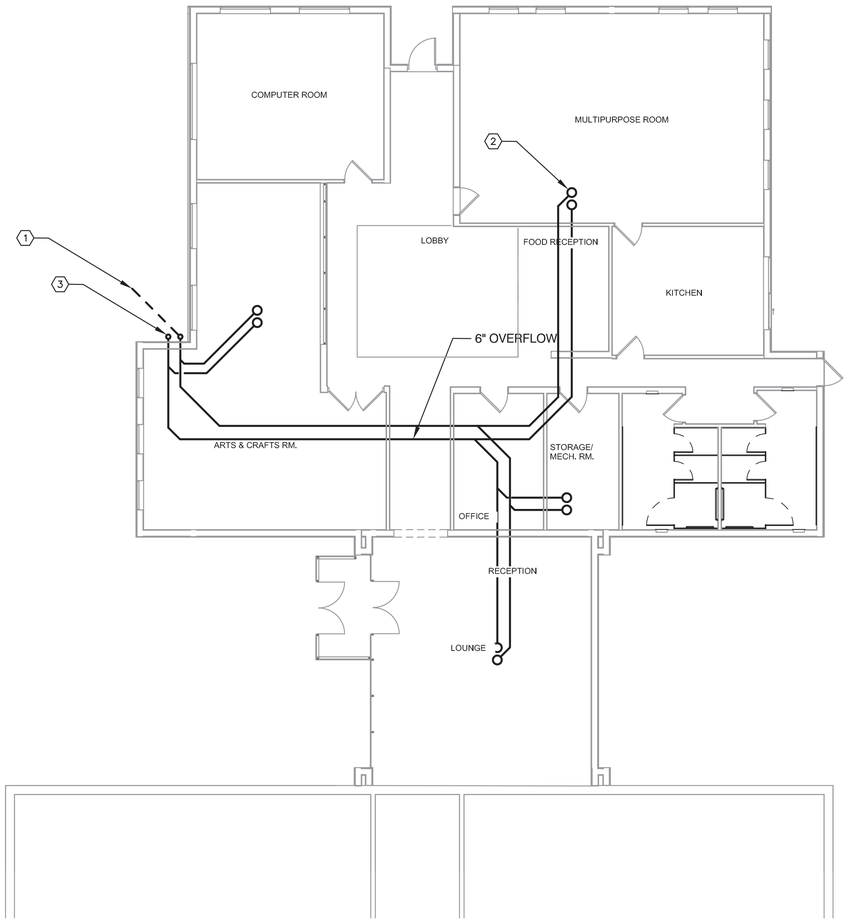
SCALE 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET P1-0 FOR FURTHER INFORMATION.
2. SLOPE EACH ROOF AREA MIN. 1% TOWARDS ROOF DRAINS. EACH INDIVIDUAL SECTION OF ROOF SHALL HAVE ROOF DRAIN AND OVERFLOW DRAIN.
3. SLOPE ALL STORM PIPING MIN $\frac{1}{8}$" PER FOOT.

NEW WORK KEYED NOTES: (#)

1. TIE INTO EXISTING SITE DRAINAGE SYSTEM. PLUMBING CONTRACTOR TO BRING 6" STORM PIPE TO A LOCATION 5' OUTSIDE BUILDING. CIVIL CONTRACTOR TO PROVIDE SITE PIPING. COORDINATE INVERT ELEVATION.
2. PROVIDE ZURN Z-100 ROOF DRAIN (TYP.) WITH 6" OUTLET OR APPROVED EQUAL. PROVIDE OVERFLOW DRAIN WITH INLET FLOW LINE LOCATED 2" ABOVE LOW POINT OF THE ROOF.
3. DISCHARGE OVERFLOW ROOF DRAIN ON GRADE. PROVIDE ELBOW FITTING TO TURN DISCHARGE AWAY FROM BUILDING. PROVIDE SPLASH BLOCK.



1 P2-2 NEW ADDITION STORMWATER PLAN
SCALE:1/8" = 1'-0"

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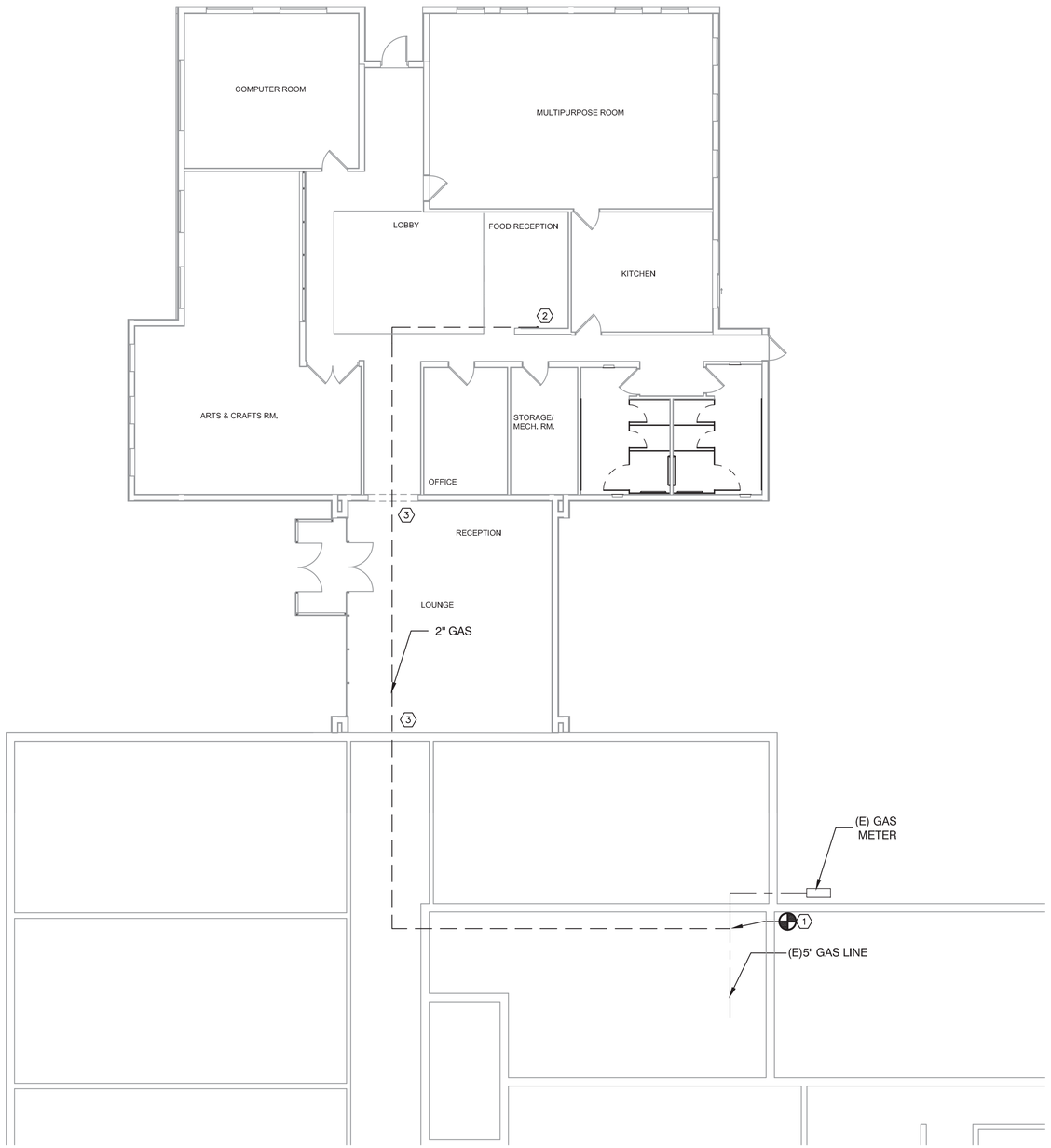
STORM PLAN

P2-2

SCALE 1/8" = 1'-0"



1 P2-2 NEW ADDITION GAS PLAN
SCALE:1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET P1-0 FOR FURTHER INFORMATION.

2. EXISTING GAS LOAD:
   - 2.1. BOILER: 2,200,000 BTUh
   - 2.2. HVAC: 800,000 BTUh
   - 2.3. MUA UNIT: 300,000 BTUh
   - 2.4. DOMESTIC WH: 3,400,000 BTUh
   - 2.5. KITCHEN: 328,000 BTUh
   - 2.6. EMERG. GENERATOR: 690,000 BTUh

3. NEW GAS LOAD:
   - 3.1. HVAC UNIT: 400,000 BTUh

4. CONTRACTOR TO VERIFY INCOMING PRESSURE DOWNSTREAM OF METER ON SITE. INSTALL ALL GAS PIPING PER IFGC AND LOCAL STANDARDS.

5. INSTALL GAS PIPING PER IFGC AND NFPA 54 REQUIREMENTS.

6. PLUMBING CONTRACTOR RESPONSIBLE FOR ALL VALVES AND METERS FROM BUILDING TIE IN UP THROUGH ROOF OF NEW ADDITION AND TO NEW MECHANICAL UNIT. MECH CONTRACTOR RESPONSIBLE FOR ALL VALVES AND REGULATORS AT TIE IN TO NEW MECH UNIT ON ROOF.

NEW WORK KEYED NOTES: (#)

1. TIE INTO EXISTING GAS LINE. PROVIDE ISOLATION VALVE AT TIE IN LOCATION TO ISOLATE NEW GAS LINE TO NEW ADDITION.

2. 2" GAS UP TO NEW HVAC UNIT. SEAL PENETRATION WATER TIGHT. REFER TO MECHANICAL DRAWINGS.

3. PROVIDE FIRE RATED PENETRATION AT EXISTING EXTERIOR WALL. PROVIDE ADDITIONAL FIRE RATED PENETRATIONS AS REQUIRED BY CODE AT ALL RATED WALLS.

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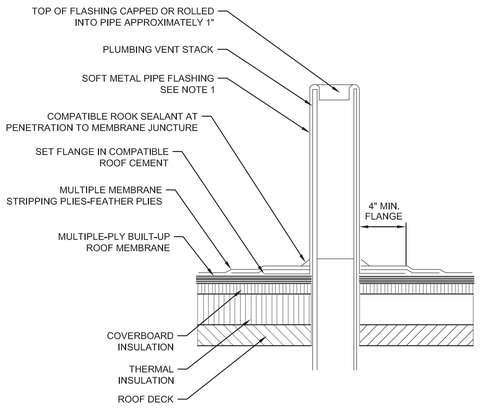
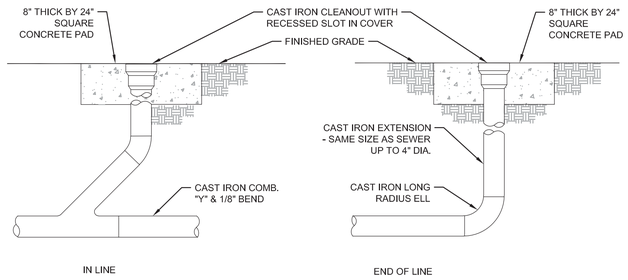
GAS PLAN

P2-3

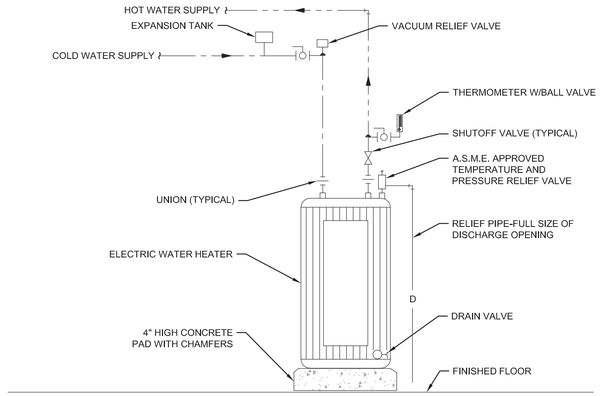
SCALE 1/8" = 1'-0"



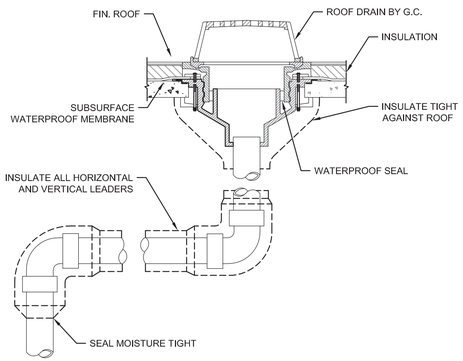
1 VENT THROUGH ROOF
P3-1 SCALE:NTS



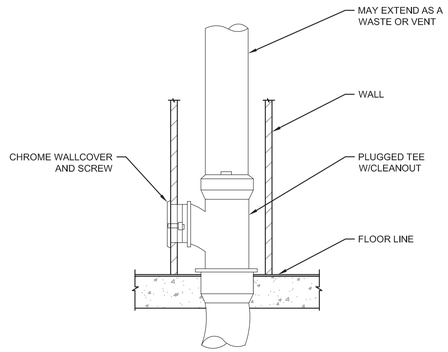
2 CLEANOUTS
P3-1 SCALE:NTS



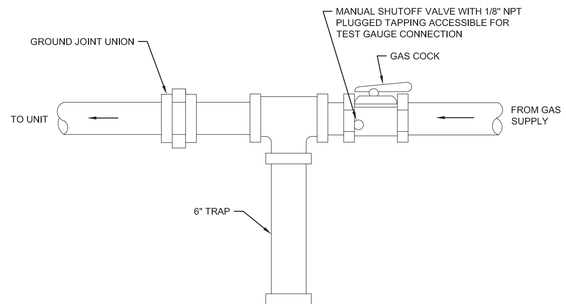
3 ELECTRIC WATER HEATER
P3-1 SCALE:NTS



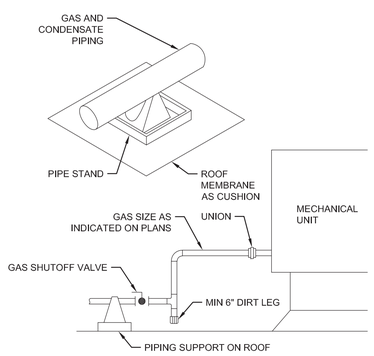
4 ROOF DRAIN
P3-1 SCALE:NTS



5 WALL CLEANOUT
P3-1 SCALE:NTS



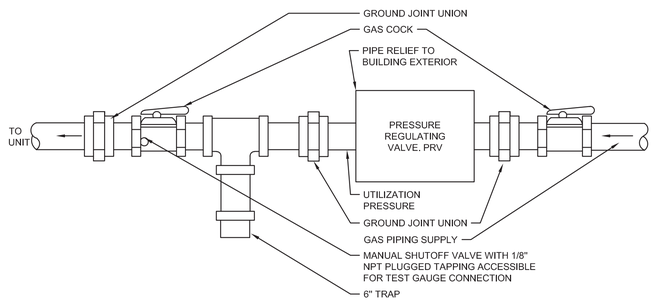
6 GAS PIPING
P3-1 SCALE:NTS



1. PIPING SHALL BE SUPPORTED AT ALL ELBOWS AND TEES AND AT SPACING SPECIFIED IN THE TABLE BELOW. PIPING SHALL BE SLOPED AND ROUTED TO PREVENT TRAPPING CONDENSATE (EXCEPT AT DIRT LEGS) AND TO FACILIATE CONDENSATE DRAINAGE.
2. GAS PIPING AND PENETRATIONS THRU ROOF AS SPECIFIED OR AS REQUIRED BY CODE BE CALLED FOR IN SPEC. SECTION 15 OR AS REQUIRED BY LOCAL CODES.
3. PIPE STAND SHALL BE MIRO, IND. OR EQUAL "PILLOWBLOCK" MODEL 1.5 (UP TO 1i"), 3-R (UP TO 3"), AND 4-R & 4-RAH FOR 4", 6-RAH (5 TO 6").
4. DO NOT ATTACH PIPE STANDS TO ROOF.

PIPE SIZE	MODEL NO.	MAX. SPACING
3/4"	1.5	5'
1"	1.5	6'
1-1/4"	1.5	7'
1-1/2"	1.5	9'
2"	3-R	10'
2-1/2"	3-R	10'
3"	3-R	10'
4"	4-R, 4-RAH	10'
5"	6-RAH	10'
6"	6-RAH	10'

7 NATURAL GAS ROOF PIPING
P3-1 SCALE:NTS



8 GAS PIPING PRESSURE REGULATOR
P3-1 SCALE:NTS

RCD KEC

SENIOR WELLNESS CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

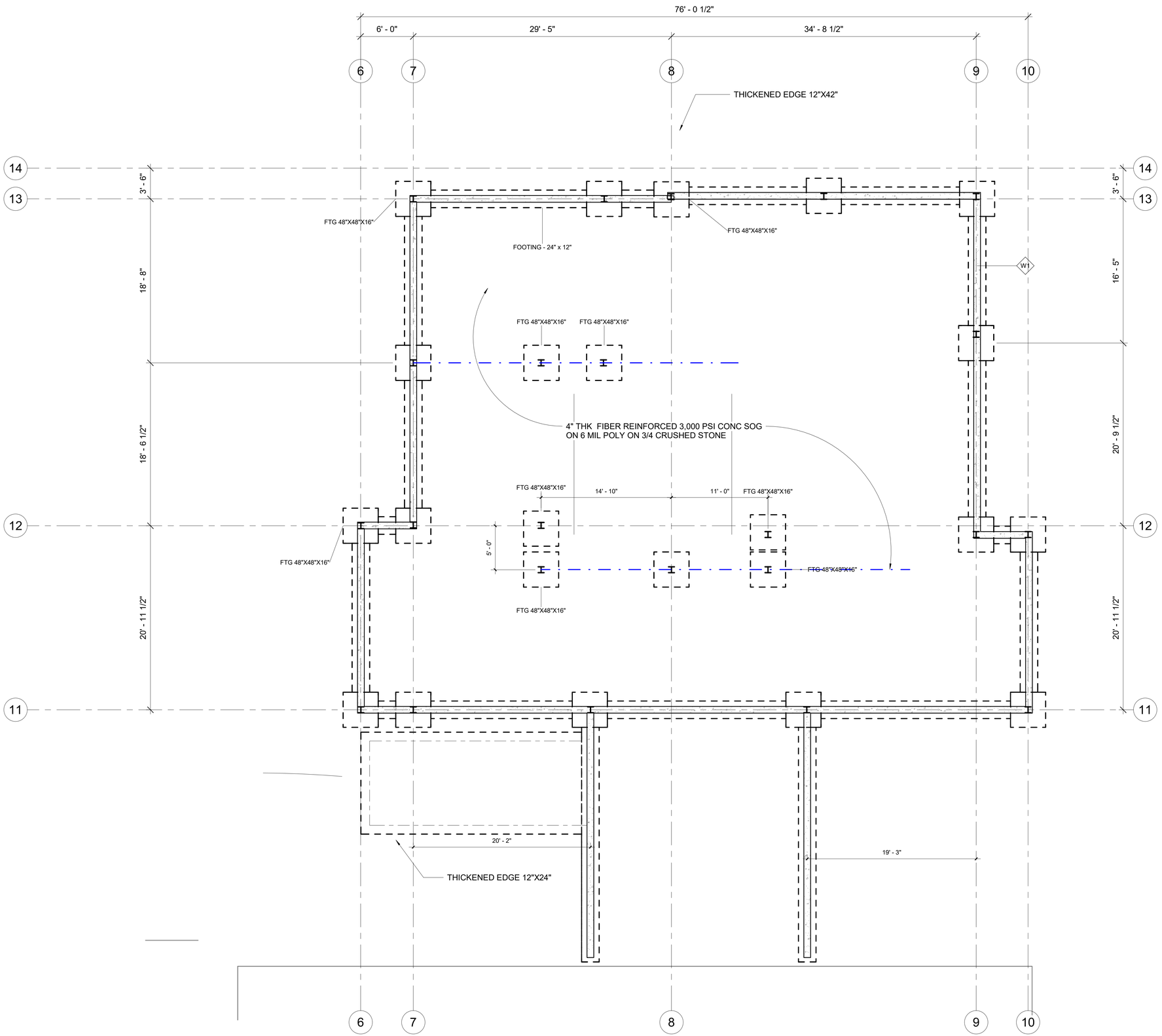
DRAWN BY: ADK

DATE: 16 DECEMBER 2024

DETAILS

P3-1

SCALE N.T.S



2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

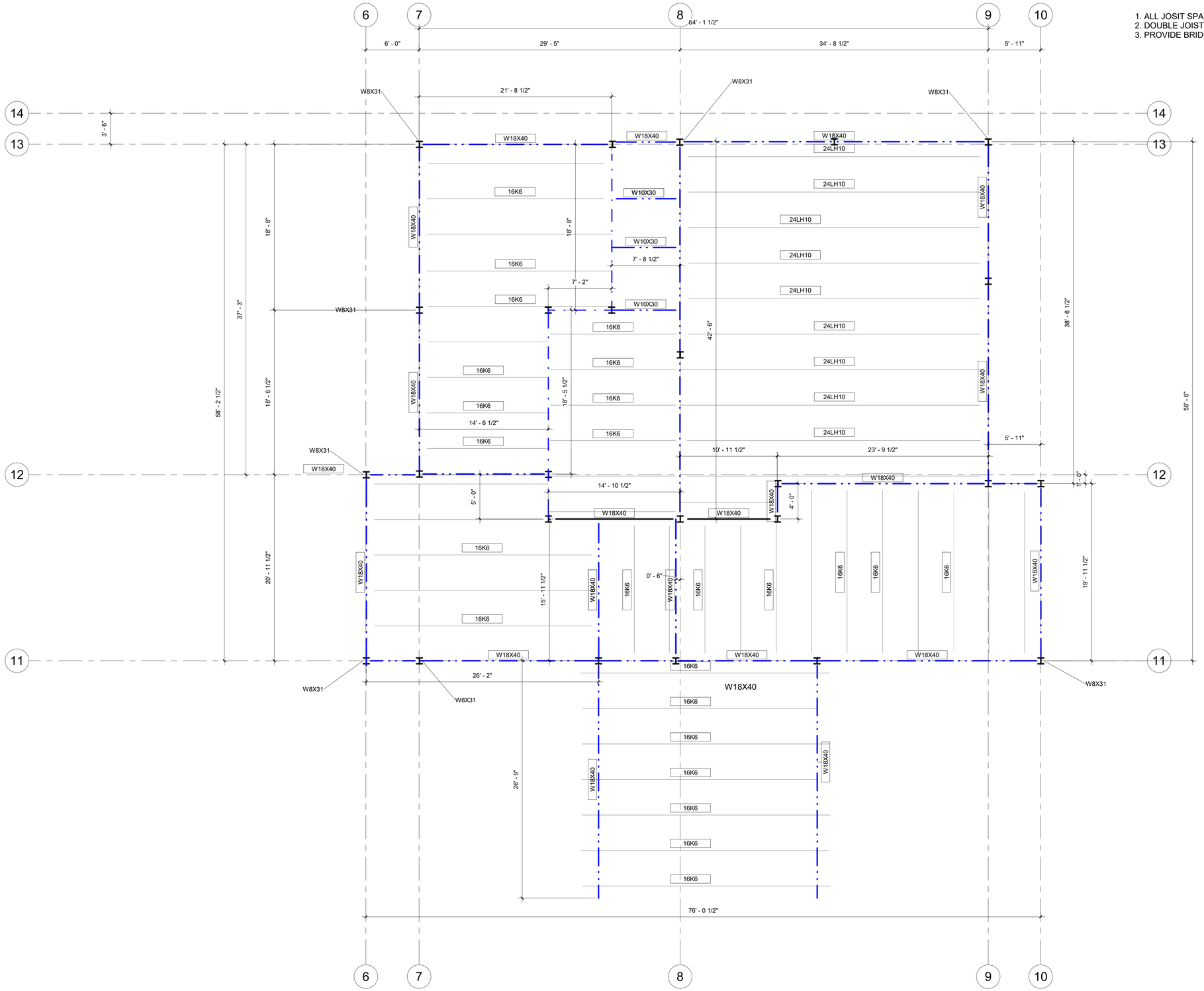
FOUNDATION PLAN

S101

SCALE 3/16" = 1'-0"

NOTES

1. ALL JOSIT SPAVING AT 4' C/C
2. DOUBLE JOIST AT RTU LOCATION
3. PROVIDE BRIDGING PER MANUFACTURER SPECIFICATIONS



2025 MIDDLEBELT ROAD
INKSTER, MI 48141

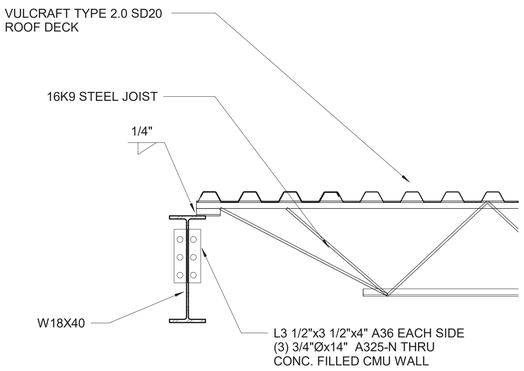
DRAWN BY: I. THOMPSON

DATE: 12/30/2024

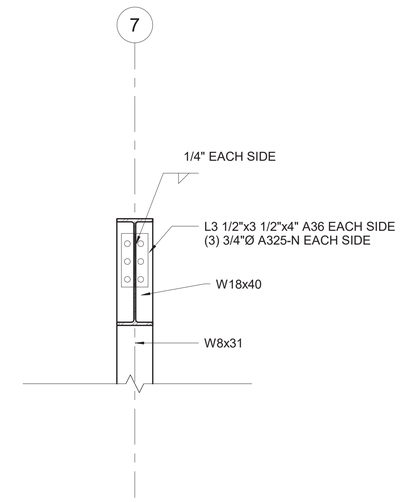
ROOF FRAMING PLAN

S102

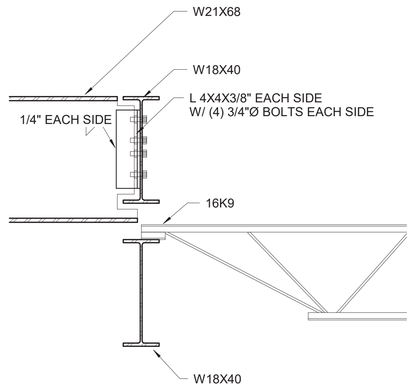
SCALE 3/16" = 1'-0"



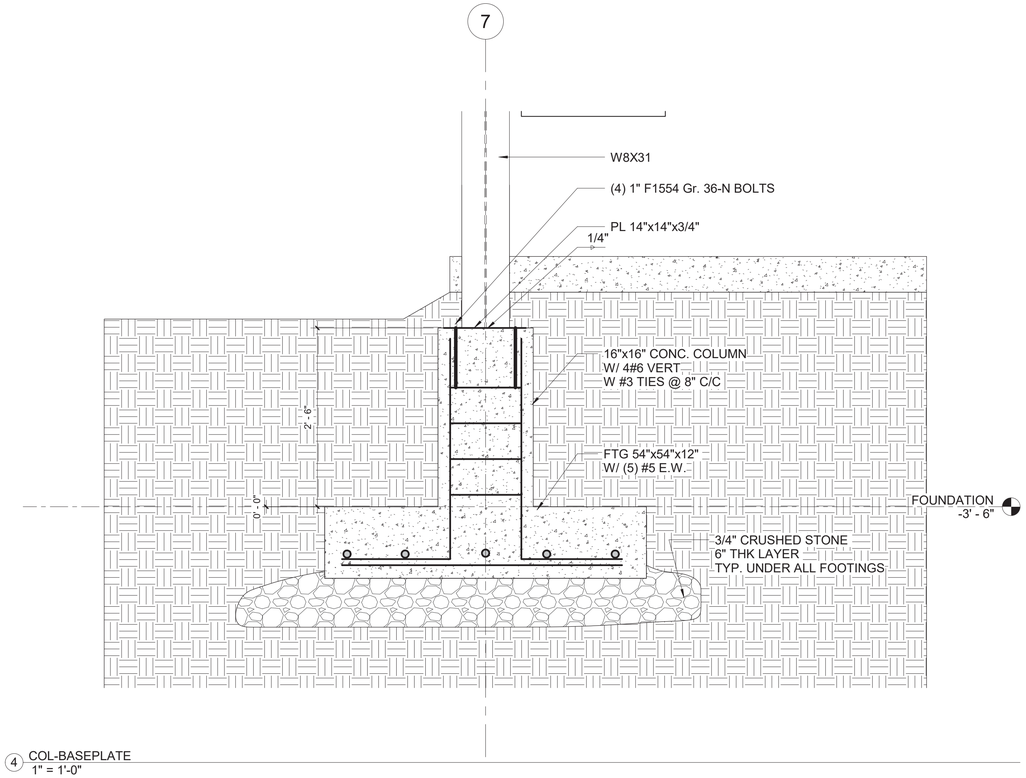
1 BEAM - CMU WALL
1" = 1'-0"



2 BEAM-COLUMN
1" = 1'-0"



3 BEAM - BEAM
1" = 1'-0"



4 COL-BASEPLATE
1" = 1'-0"

RCD

INKSTER RECREATION CENTER
2025 MIDDLEBELT ROAD
INKSTER, MI 48141

DRAWN BY: I. THOMPSON

DATE: 12/30/2024

STRUCTURAL DETAILS

S103

SCALE 1" = 1'-0"

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