



Ohio Department of Commerce
Division of Industrial Compliance

Mike DeWine
Governor

Sheryl Maxfield
Director

Certificate of Final Plan Approval

Table with 3 columns and 6 rows containing project details: Plan Number (2025022089), Property Address (108 MOUNT VERNON AVE), County (KNOX), Date of Approval (10/25/2025), Type of Project (New Building), Governing Building Code (2024 OBC), Building / Business Name (BABE RUTH CONCESSION STAND), Description of the Project (Construction of a 560 SF seasonal concession stand with restrooms), Property Owner (CITY OF MT VERNON), Submitter (MKC Architects), Design Professional (MKC ARCHITECTS), Approved Scope of Project (General Building Trade, Mechanical, Electrical), Authorized No. of Inspections (5), Use Occupancy Groups (B), Construction Type (Type III B), Building Floor Area (560), Number of Stories (1), Building Occupant Load (7).

Proper inspections shall be requested prior to pouring concrete footings and/or installation of interior finishes per section 108 OBC. This certificate shall remain posted in a conspicuous and safe place on the job site until the work is completed. Failure to meet these requirements may result in the refusal of service and/or the issuance of an adjudication order. The building/structure shall pass final inspection and a State of Ohio Certificate of Use and Occupancy shall be issued before the building/structure can be legally occupied. The owner is responsible for obtaining all local zoning and sewage permits. In order to schedule an inspection, contact the numbers listed on the bottom of this certificate between the hours of 8:15 am and 2:30 pm.

Table with 3 columns: Structural / Electrical / Plumbing (1-800-822-3208, 8:00 am to 5:00 pm), State Fire Marshal (614-728-5460), All Other Inquiries (1-800-523-3581, 8:00 am to 5:00 pm).

State Inspector's Signature for Occupancy:

Handwritten signature of David S. Merrick

David S. Merrick
Chief Building Official

Approval lines for Final Structural, Final Electrical, Final Plumbing, Final Medical Gas, and Final Fire Approval, each with a blank line for the signature and a blank line for the date.

Ohio Department of Commerce
Division of Industrial Compliance
6606 Tussing Road
Reynoldsburg, Ohio 43068-9009
(614) 644-2622 Fax: (614) 644-3145



**Department of Commerce, Division of Industrial Compliance, Bureau of Building Code Compliance, State of Ohio
Electronic Plan Approval Sheet**

CPA Number: _____ Building Use Groups: _____ Plan Approval Date: _____
 Approval Type: Final Partial No. Construction Type: _____ Name of County: _____

Plan Approval Status Expiration Notice:

This plan approval status will expire if the construction work has not commenced within 12 months of the approval date or during the course of construction, the work is delayed or suspended more than 6 months. Extensions can be granted upon receiving a written request with a fee of \$100 from the owner at least 10 days prior to the expiration date in accordance with Section 105 OBC.

Contractor License Notice:

All electrical, plumbing, hydronics, HVAC, and refrigeration contractors working on this project must be licensed by the State of Ohio in accordance with 4740 ORC.

This plan approval is subject to the following additional code requirements:

Ohio Building Code, Chapter 29, minimum plumbing requirements. Please contact the Building Code Compliance, Plumbing Section or Local Health Department.
 Ohio Elevator Code, Ohio Fire Code, Ohio Boiler and Unfired Vessels Rules
 All other requirements of the Ohio Revised Code, Local Zoning and Other Regulations.

Disclaimer:

The structural elements of these drawings have been examined to the extent necessary to determine conformity of such plans with other requirements of OBC. The sufficiency of these elements to meet all code requirements is the responsibility of the registered architects or professional engineers who certified the drawings.

All electrical work shall be installed in accordance with National Electrical Code.

The design and calculations for the sprinkler system in these plans, if applicable, have been examined to the extent necessary to determine conformity of such plans with other requirements of OBC. The sufficiency of the design and calculations to meet code is the responsibility of author of these plans who certified the drawings. The installed sprinkler system will be inspected by DIC field inspectors to determine compliance. The operation of the system will be verified by local fire authority or a third party inspection agency.

For Partial Plan Approval:

The following scope of work is approved under tis partial plan approval

Footing/Foundation	Slab	Building Shell	Interior Finishes	Plumbing
Electrical	Mechanical	Sprinkler	Fire Alarm	Medical Gas

List of available construction inspections for request when the scope of work is checked below. For building general, see the partial approval items above.

Structural

- ❖ Footing/Foundation
- ❖ Floor Slab
- ❖ Framing
- ❖ Above Ceiling
- ❖ Kitchen Exhaust Hood
- ❖ Site Consultation
- ❖ Investigation
- ❖ Interior Finishes
- ❖ Final Inspection

Mechanical

- ❖ Above Ceiling
- ❖ Rough-In
- ❖ Site Consultation
- ❖ Final Inspection

Sprinkler System

- ❖ Standpipe
- ❖ Limited Area
- ❖ Hood Suppression
- ❖ Site Consultation
- ❖ Final inspection

Electrical

- ❖ Temporary Service
- ❖ Service
- ❖ Underground
- ❖ Under Slab
- ❖ Wire Rough-In
- ❖ Site Consultation
- ❖ Investigation
- ❖ Above Ceiling
- ❖ Final Inspection

Fire Alarm System

- ❖ Site Consultation
- ❖ Rough-In
- ❖ Final Inspection

Industrialized Unit (IU)

- ❖ Site Consultation
- ❖ Final inspection

Re-Roofing

- ❖ Rough-In
- ❖ Final inspection

Plumbing

- ❖ Site consultation
- ❖ Underground
- ❖ Above ceiling
- ❖ Rough in
- ❖ Final inspection

Medical Gas

- ❖ Site consultation
- ❖ Underground
- ❖ Above ceiling
- ❖ Rough in
- ❖ Final inspection



Site Inspection Sign-Off Log

Special Note: This inspection log must be kept on site with the approved plans at all times. Additional inspection fees will be charged when the actual number of inspections exceeds the number of allowed inspections for each scope of work. Please make additional blank copies of this sheet before using it if needed.

Certificate of Plan Approval (CAP) No.		Scope of work: Electrical (EL) / Fire Alarm (FA)	Total Number of Inspections Allowed:	
---	--	---	---	--

No.	EL	FA	Date	Inspection results	Inspected by	Next inspection required
1						
2						
3						
4						
5						
6						
7						
8						



ARCHITECTS

October 3, 2025

Jason Baughman, *Plans Examiner*
David S. Merrick, *Chief Building Official*
Department of Commerce – Division of Industrial Compliance
6606 Tussing Road
Reynoldsburg, OH 43068

Re: 2025022089 – 108 Mount Vernon Ave. [Babe Ruth Concessions]

Mr. Baughman & Mr. Merrick,

MKC Architects is in receipt of the Correction Letter No. 1 dated September 9th, 2025. The following are our responses and clarifications to the comments:

- a. The drawings indicate flood vents. Please provide the criteria for the flood vents (required opening per floor area/room, etc.)

Response: Please refer to attached Smart Vent Flood Louver cut sheets and flood opening data as provided and approved by the City of Mt. Vernon engineers.

- b. The drawings indicate flood vents on the architectural sheets but flood design is not mentioned in the other trades documents. Are these requirements for the sanitary system? Are these requirements for the electrical systems, etc. Please clarify.

**Response: Flood design data has been provided on the code summary sheet (G100).
An automatic backwater valve will be supplied on sanitary discharge in accordance with 2024 Ohio Plumbing Code Section 309.2. All electrical items have been raised to have bottom of device above flood elevation. All new receptacles being provided have GFI protection.**

- c. As per 2024 OBC 1209.2, please provide direction on the required attic access.

Response: Attic access panels have been provided. Please refer to the roof framing plan (C3/S101) and the reflected ceiling plan (C5/A101) for locations and keynoted spec.

- d. As per OMC 306.5.1, please provide direction on the required platform around the roof mounted exhaust fan.

Response: The exhaust will be ducted out to a dedicated gable louver meeting required CFM.

- e. Please provide a one-line diagram.

Response: Please see revised sheet E100 for one-line diagram.



Final Approval
Jason Baughman
Plans Examiner
111 North 4th Street
Columbus, Ohio 43215

866 | 675 | 7584
740 | 657 | 1717

www.mkcinc.com

CPA #2025022089 - Full Approval
BUILDING PLAN APPROVAL (BP)
Print all materials and retain at the site
10/25/2025

f. Insulation is shown but not called out. Please clarify.

Response: Graphic references to insulation are removed from the drawings. Note that the concession stand will only be occupied seasonally. In the colder months, all plumbing fixtures will be winterized and freeze protected. No active cooling or heating will be applied to the space, so the building is exempt from requiring thermal insulation in accordance with Ohio Energy Code section C402.1.1, item #2.

Thank you for your consideration on these items. Please do not hesitate to reach out to Bhetrick@mkcinc.com with any additional questions or concerns.

Sincerely,

Matthew Teismann, AIA
President/CFO, MKC Architects
E: mteismann@mkcinc.com
P: 740.657.3202



ARCHITECT OF RECORD
MATTHEW T. TEISMANN - 1616826
EXPIRATION DATE: 12-31-2025



**Final Approval
Jason Baughman
Plans Examiner**

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2/24

Memorial Park Concession Stands - Flood Opening Data (09.17.2025)

Building	Room	Floor Area	Flood Vents	Man Doors	Flood Coverage (SF)	Vent	Flood Coverage (SF)
Babe Ruth	Concessions	220.00	3	1	816	Smart Vent	200
Babe Ruth	Mens RR	92.00	1	1	416	Door Vent	216
Babe Ruth	Womens RR	122.00	0	1	216		
Babe Ruth	Mech Room	22.22	1	1	416		
Main	Concessions	343.00	2	1	616		
Main	Storage	271.00	1	1	416		
Main	Mens RR	232.00	1	1	416		
Main	Womens RR	232.00	1	1	416		
Main	Mech Room	28.42	0	1	216		

City of Mount Vernon
Engineering Department

These drawings or specifications have been:

Approved
 Approved as noted
 Rejected

Signed: QEP
 Date: 10/02/2025



Final Approval
Jason Baughman
Plans Examiner

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 10/25/2025
 3/24

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	G	RE-DRAWN	9-12-22	

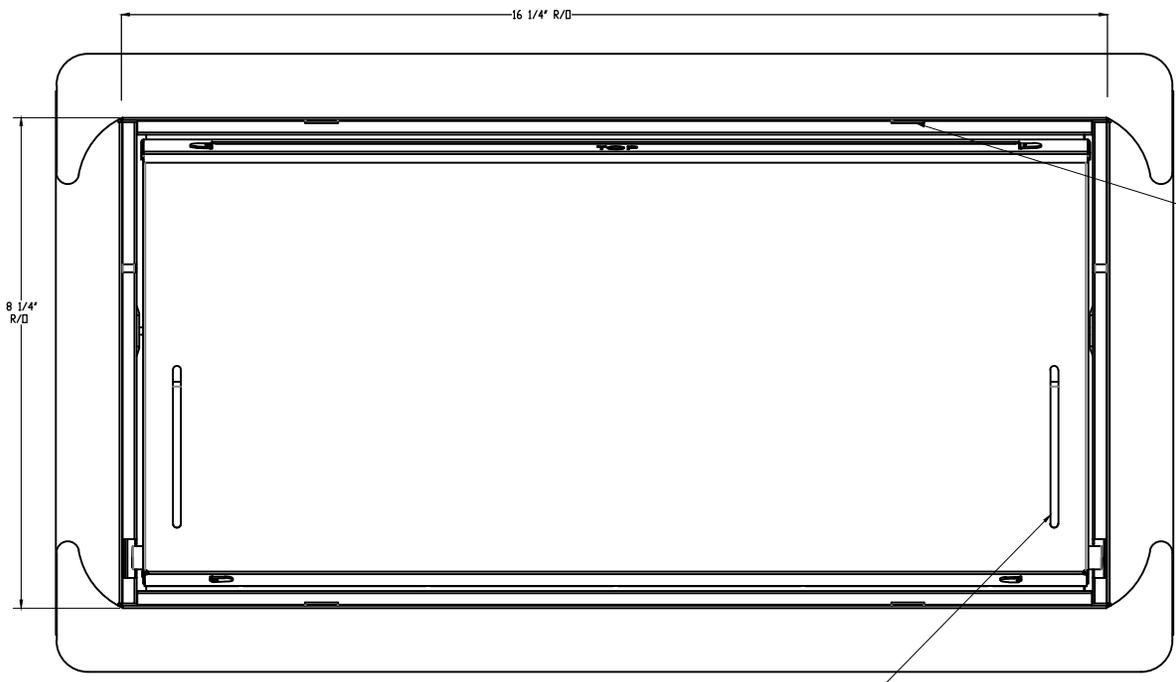


FIGURE 1
FRONT VIEW

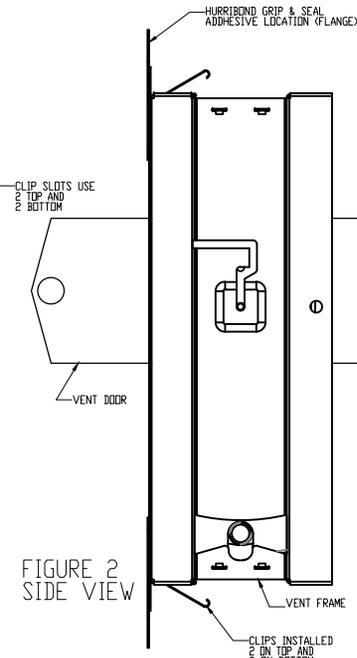


FIGURE 2
SIDE VIEW

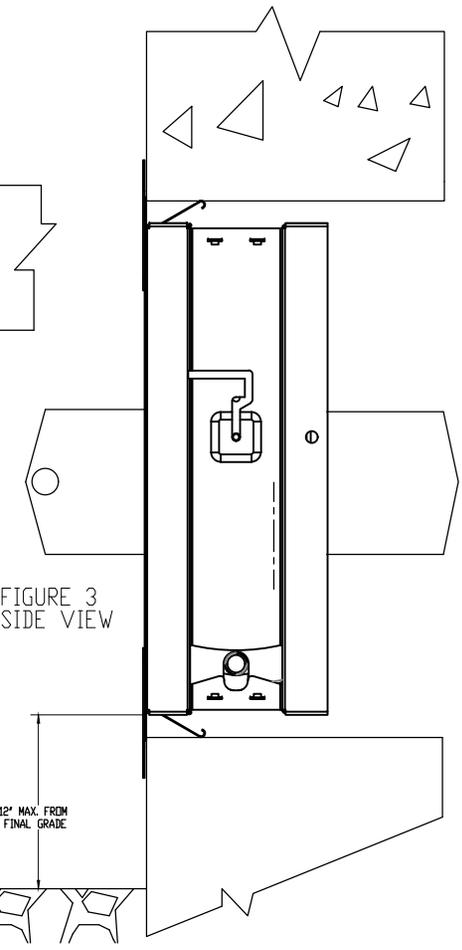


FIGURE 3
SIDE VIEW

City of Mount Vernon
Engineering Department
These drawings or specifications have been:

Approved
 Approved as noted
 Rejected

Signed: QEP
Date: 10/02/2025

DETAILED SPECIFICATIONS:

HYDROSTATIC RELIEF: 200 SQ. FT. PER VENT
APPROVED FOR HVHZ: YES-DESIGN PRESSURE +100/-100
IMPACT RESISTANCE: N/A
STEEL (UNFINISHED) STANDARD
WHITE, WHEAT, GRAY, BLACK, CUSTOM

MEETS THE REQUIREMENTS FOR AUTOMATIC FOUNDATION FLOOD VENTS PER:
NATIONAL FLOOD INSURANCE PROGRAM 44 CFR 60.3 (C) (5)
ACCEPTANCE CRITERIA FOR MECHANICALLY OPERATED FLOOD VENTS (AC364): ESR-2074.
INTERNATIONAL BUILDING CODE (IBC): 2018, 2015, 2012, 2009 AND 2006.
INTERNATIONAL RESIDENTIAL CODE (IRC): 2018, 2015, 2012, 2009 AND 2006.
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
2013 ABU DHABI INTERNATIONAL BUILDING CODE (ADIBC).
FLORIDA PRODUCT APPROVAL FL-5822-R7.
2017 FLORIDA BUILDING CODE - BUILDING.
2017 FLORIDA BUILDING CODE - RESIDENTIAL.
2016 CALIFORNIA BUILDING CODE (CBC).
2016 CALIFORNIA RESIDENTIAL CODE (CRC).
DIVISION 08 95 43-VENTS/FOUNDATION FLOOD VENTS.
FULL SPECIFICATIONS ARE AVAILABLE



Final Approval
Jason Baughman
Plans Examiner

CPA #2025022089 - Full Approval
BUILDING PLAN APPROVAL (BP)
Print all materials and retain at the site
10/25/2025
4/24

UNLESS OTHERWISE SPECIFIED		NAME	DATE	SMART VENT
DRAWING ARE IN INCHES	IMPERIAL	MP	2-25-19	877-441-8368 WWW.SMARTVENT.COM
FRACTIONAL 1/16"	DECIMAL			
ANGLES 15°				
TWO PLACE DECIMALS AND THREE PLACE DECIMALS				
UNLESS OTHERWISE SPECIFIED				
SEE NOTE				
SEE NOTE				

SIZE DWG NO. REV
D 1540-520 G
SCALE: 3/16 WEIGHT: SHEET 1 OF 1



Memorial Park - Babe Ruth Concessions

108 Mount Vernon Ave Ext, Mt Vernon, OH 43050



MKC | ARCHITECTS

161 North 4th Street
Columbus, OH 43215
666.675.7684

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ARCHITECT OF RECORD
MATTHEW T. TEISMANN - 1816826
EXPIRATION DATE: 12-31-2025

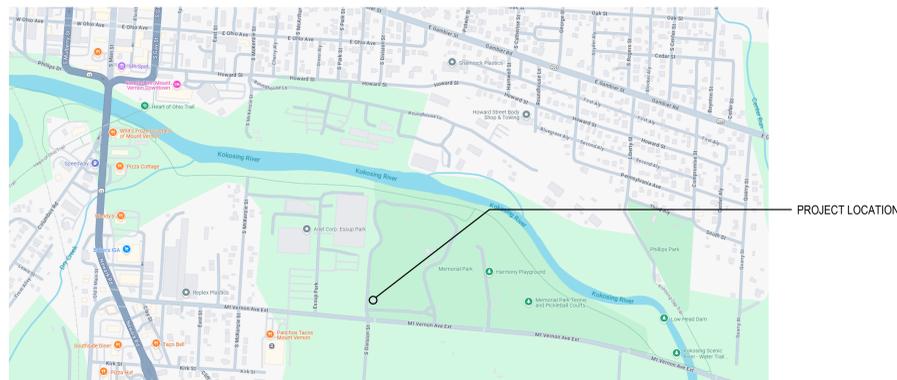
ISSUED: Issue Date
MKC PROJECT: 25-012

City of Mount Vernon

40 Public Square, Mt Vernon, OH 43050

Memorial Park - Babe Ruth Concessions
108 Mount Vernon Ave Ext, Mt Vernon, OH 43050
City of Mount Vernon

SITE LOCATION



CONSULTANTS



MEP
KRAMER ENGINEERS
394 OAK STREET
COLUMBUS, OH 43215
CONTACT: BRETT KRAMER
EMAIL: bkramer@kramerengineers.com
PHONE: 614.407.7329

DRAWING INDEX

GENERAL

- G000 COVER SHEET
- G002 GENERAL INFORMATION
- G100 CODE SUMMARY
- G101 LIFE SAFETY PLANS & DETAILS
- G110 TYPICAL ACCESSIBILITY SPECIFICATIONS
- G140

CIVIL

STRUCTURAL

- S101 FOUNDATION AND FRAMING PLANS & DETAILS

ARCHITECTURAL

- A001 ARCHITECTURAL SITE PLAN
- A101 PROPOSED PLANS
- A200 BUILDING ELEVATIONS
- A300 BUILDING SECTIONS & DETAILS
- A400 INTERIOR ELEVATIONS & SCHEDULES

PLUMBING

- P001 PLUMBING SPECIFICATIONS
- P100 PLUMBING PLANS
- P600 PLUMBING DETAILS & SCHEDULES

MECHANICAL

- M001 MECHANICAL SPECIFICATIONS
- M100 MECHANICAL PLANS

ELECTRICAL

- E001 ELECTRICAL SPECIFICATIONS
- E100 ELECTRICAL PLANS
- E101 ELECTRICAL SITE PLAN

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C:\Users\kcampbell\Documents\25-012_MP Concession Stands_Babe Ruth_R24_kcampbell\T3LUX.rvt

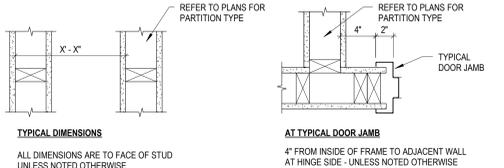
G.C.	GENERAL TRADES CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL (HVAC) CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
S.C.	SITE CONTRACTOR

H	HEATING, VENT, AIR CONDITIONING
HM	HOLLOW METAL
HORIZ	HORIZONTAL
I	INSIDE DIAMETER
INT	INTERIOR
L	LABORATORY
LL	LONG LEG HORIZONTAL
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
M	MASONRY
MAS	MASONRY
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
O	ON CENTER
OPP	OPPOSITE
P	PLATE
PL	PLUMBING
PLBG.	PREFABRICATED
PREFAB	
R	RADIUS
RAD	RUBBER BASE
RB	REFLECTED CEILING PLAN
REF	REFERENCE
REINF.	REINFORCE(D)ING
REQ(S)	REQUIREMENTS
REV	REVISED, REVISION
RH	RIGHT HAND
RD	ROUGH OPENING
R.O.	
S	SIMILAR
SIM	SPECIFICATIONS(S)
SPEC	SQUARE FEET
SF	STAINLESS STEEL
SS	STANDARD
STD	STRUCTURAL
STRUCT	
T	T.O.F. TOP OF FOOTING
T.O.F.	TOP OF MASONRY
T.O.M.	TOP OF STEEL
T.O.S.	TOP OF WALL
T.O.W.	TYPICAL
U	UNLESS NOTED OTHERWISE
U.N.O.	
V	VERTICAL
VERT	
W	WITH
W/O	WITHOUT
WD	WOOD

	ACOUSTIC TILE		PLYWOOD
	ALUMINUM		PLYWOOD
	BLANKET INSULATION		RIGID INSULATION
	CONCRETE		SOLID WOOD FINISHED
	CONCRETE MASONRY UNIT		STANDARD FACE BRICK
	EARTH		STEEL
	GRAVEL		WOOD LUMBER
	GYPSUM / PLASTER		WOOD SHIM

D4 | TYPICAL MATERIALS

DETAIL		← DETAIL NUMBER	KEY NOTE	
		← SHEET NUMBER		
SECTION		← DETAIL NUMBER	PARTITION TYPE	
		← SHEET NUMBER		
INTERIOR ELEVATION		← DETAIL NUMBER	MATCHLINE	
		← SHEET NUMBER		
CASEWORK ELEVATION		← DETAIL NUMBER	CONTROL JOINT	
		← SHEET NUMBER		
ROOM TAG		← ROOM NAME	WINDOW TYPE	
		← ROOM NUMBER		
		← ROOM AREA (Where occurs)	FINISHES SYMBOL	W: PT-2 - WALLS F: VT-4 - FLOORING B: RB-2 - BASE C: SS-1 - COUNTERTOP
DOOR NUMBER		← OPENING NUMBER		



C3 | TYPICAL DIMENSIONING CONVENTIONS

SHEET NUMBER EXPLANATION

1. DISCIPLINE
THIS CHARACTER DENOTES THE SHEET DISCIPLINE
(A) ARCHITECTURAL
(AD) ARCHITECTURAL DEMOLITION

2. SHEET TYPE
THIS CHARACTER DENOTES THE TYPE OF INFORMATION ON THE SHEET

(0) SITE INFORMATION
(1) FLOOR PLANS / RCPs
(2) BUILDING ELEVATIONS
(3) SECTIONS
(4) ENLARGED PLANS
(5) INTERIOR ELEVATIONS
(6) VERTICAL CIRCULATION
(7) EXTERIOR DETAILS
(8) INTERIOR PLANS AND DETAILS
(9) OPENINGS AND SCHEDULES

3. FLOOR NUMBER (OR MODIFIER)
THESE CHARACTERS DENOTE EITHER THE NUMBER OF THE FLOOR SHOWN OR THE SHEET # OF THE NEXT SEQUENTIAL NUMBER OF THAT SERIES OF SHEETS.

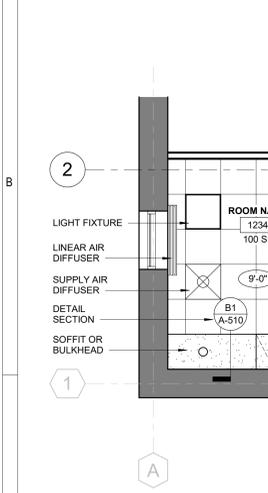
A101

1. DISCIPLINE
2. SHEET TYPE
3. FLOOR # / MODIFIER

B3 | ARCHITECTURAL SHEET NUMBERING

- GENERAL NOTES**
- THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF MKC ARCHITECTS AND HAVE BEEN PREPARED FOR USE IN THE EXECUTION OF THE ENCLOSED PROJECT. USE OR REPRODUCTION FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF MKC IS PROHIBITED.
 - THESE GENERAL NOTES APPLY TO THE CONSTRUCTION DOCUMENTS AND SHALL GOVERN UNLESS NOTED OTHERWISE BY GENERAL NOTES OR KEYNOTES ON SPECIFIC SHEETS.
 - NOTIFY ARCHITECT IN WRITING PROMPTLY IF INFORMATION SHOWN IN ONE CONSTRUCTION DOCUMENT CONFLICTS WITH INFORMATION SHOWN ON ANOTHER.
 - NOTIFY ARCHITECT IN WRITING PROMPTLY IF CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH THE CURRENT APPLICABLE CODES AND REGULATIONS.
 - INFORMATION REGARDING EXISTING CONDITIONS USED TO PREPARE THESE DRAWINGS HAS BEEN PROVIDED BY OTHERS. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ARCHITECT IN WRITING PROMPTLY IF ANY EXISTING CONDITIONS CONFLICT WITH THE CONSTRUCTION DOCUMENTS.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, DATUM LEVELS, AND CONDITIONS PERTAINING TO THE WORK PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ARCHITECT IN WRITING PROMPTLY IF ANY DISCREPANCIES WITH THE CONSTRUCTION DOCUMENTS ARE FOUND. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE.
 - DRAWINGS HAVE BEEN PREPARED ON AN ORIGINAL SHEET SIZE OF 30" x 42".
 - HORIZONTAL DIMENSIONS SHOWN INDICATE FACE OF (F.O.) CONCRETE CENTERLINE OF COLUMN GRIDLINE, OR F.O. FINISH (INTERIOR, UNLESS NOTED OTHERWISE). VERTICAL DIMENSIONS INDICATE TOP OF (T.O.) SLAB UNLESS OTHERWISE NOTED.
 - STRUCTURAL STEEL MEMBER PROFILES AS INDICATED ON ARCHITECTURAL DRAWINGS MAY VARY FROM ACTUAL PROFILES AND SIZES INDICATED ON THE STRUCTURAL DRAWINGS WHICH SHALL GOVERN.
 - REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FLOOR, WALL AND CEILING OPENINGS. ALL OPENINGS SHALL BE CUT AND PATCHED AS REQUIRED BY EACH DISCIPLINE OR TRADE REQUIRING THE OPENING UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
 - PATCHING IS TO BE IN CONFORMANCE WITH APPLICABLE CODES.
 - DETAILS ARE GENERALLY TYPICAL AND ARE NOT TO BE CONSTRUCTED AS BEING LIMITED TO THOSE AREAS AS SPECIFICALLY INDICATED.
 - CONTRACTOR SHALL DISTRIBUTE ALL SHEETS OF THE ENTIRE DRAWING SET. TRADES SHALL REVIEW ALL DRAWINGS.

C5 | TYPICAL ABBREVIATIONS

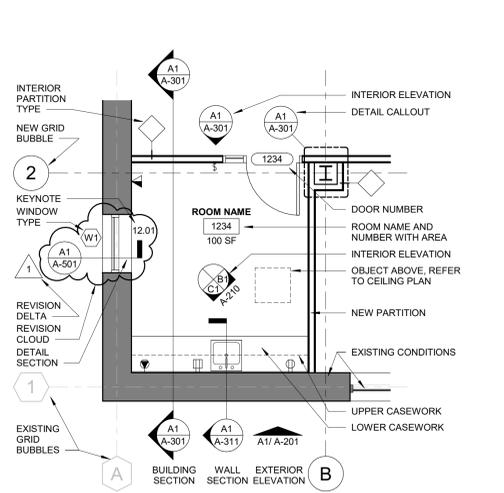


OTHER CEILING PLAN SYMBOL DESIGNATIONS

	RECESSED CAN DOWNLIGHT		TV CONNECTION (SEE ELECTRICAL DRAWINGS)
	RECESSED CAN WALL WASHER		HORN (SEE ELECTRICAL DRAWINGS)
	PENDANT MOUNTED LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)		TRACK LIGHT FIXTURE (SEE ELECTRICAL DRAWINGS)
	CEILING-MOUNTED EXIT LIGHTS (SEE ELECTRICAL DRAWINGS)		EQUIPMENT MOUNTING TRACKS
	WALL-MOUNTED EXIT LIGHTS (SEE ELECTRICAL DRAWINGS)		SPRINKLER HEAD
	SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)		SPEAKER (SEE ELECTRICAL DRAWINGS)

A5 | SYMBOL DESIGNATIONS - CEILING PLAN

C4 | TYPICAL SYMBOLS



OTHER FLOOR PLAN SYMBOL DESIGNATIONS

	EXISTING DOOR TO REMAIN		EXISTING DOOR TO DEMO
	EXISTING WALL TO REMAIN		EXISTING WALL TO DEMO

A4 | SYMBOL DESIGNATIONS - FLOOR PLAN

GENERAL NOTES - OVERALL



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EMAIL: bkramer@kramerengineers.com
PHONE: 614.407.7329

Memorial Park - Babe Ruth Concessions
City of Mount Vernon

108 Mount Vernon Ave Ext., Mt Vernon, OH 43050



ARCHITECT OF RECORD
MATTHEW T. TEISMANN - 1616826
EXPIRATION DATE: 12-31-2025

SUBMITTED: Issue Date

G002
GENERAL INFORMATION

MKC PROJECT: 25-012

CHAPTER 9 FIRE PROTECTION SYSTEMS

FIRE PROTECTION SYSTEM	REQ'D?	COMMENTS
AUTOMATIC SPRINKLER SYSTEM	[903.1.1] NO	
ALTERNATE AUTOMATIC FIRE SYSTEM	[904] NO	
STAND PIPE SYSTEM	[905] NO	
PORTABLE FIRE EXTINGUISHERS	[906] YES	INSTALL PER INTERNATIONAL FIRE CODE AND LOCAL FIRE AUTHORITY [MAX 75' DISTANCE]
FIRE ALARM DETECTION SYSTEM	[907] NO	
EMERGENCY ALARM SYSTEMS	[908] NO	
SMOKE CONTROL SYSTEMS	[909] NO	
SMOKE + HEAT VENTS	[910] NO	

CHAPTER 10 MEANS OF EGRESS

EGRESS COMPONENTS	REQUIREMENTS	COMMENTS
EGRESS WIDTH - OTHER COMPONENTS	[1005.3.2]	.15' PER PERSON (EXCEPTION 1)
COMMON PATH OF TRAVEL	[1006.2.1]	[B] 100 FT
EGRESS LIGHTING	[1009]	EMERGENCY EGRESS LIGHTING SHALL BE PROVIDED
EXIT SIGNS	[1013]	MEETS EXCEPTION 1013.1.1
EXIT TRAVEL DISTANCE	[1017.2]	[B] 200 FT

CHAPTER 11 ACCESSIBILITY

SECTION 1104 - ACCESSIBLE ROUTE

PARKING, ROUTE, AND ENTRANCE IS DESIGNED TO MEET REQUIREMENTS OF CHAPTER 11 AND ICC A117.1 (REFER TO SITE PLANS)

CHAPTER 29 PLUMBING SYSTEMS

TABLE 2902.1 - PLUMBING FIXTURES

	4 OCCUPANTS					
	WATER CLOSETS		LAVATORIES	BATHTUBS OR SHOWERS	DRINKING FOUNTAINS	SERVICE SINKS
CALC	1/25 for 50; 1/50 for remainder > 50		1/40 for 80; 1/80 for remainder > 80	N/A	1/100	1
REQ'D	1		1	0	1	1

	4 OCCUPANTS					
	WATER CLOSETS		LAVATORIES	BATHTUBS OR SHOWERS	DRINKING FOUNTAINS	SERVICE SINKS
REQ'D	0	1	1	1	0	1
PROVD	0	1	2	1	0	1

CHAPTER 5 BUILDING HEIGHTS and AREAS

TABLE 504.3 - ALLOWABLE HEIGHT

OCCUPANCY CLASS	S or NS	ALLOW. HEIGHT IN FEET ABOVE GRADE	ACTUAL	COMMENTS
B	NS	55'-0"	17'-4"	

TABLE 504.4 - ALLOWABLE STORIES

OCCUPANCY CLASS	S or NS	ALLOW. STORIES ABOVE GRADE	ACTUAL	COMMENTS
B	NS	3	1	

TABLE 506.2 - ALLOWABLE AREA

OCCUPANCY CLASS	SPRKL	TAB AREA [A]	NS TAB AREA [NS]	FRONT INCREASE	ALLOW. AREA [A]	ACTUAL	COMMENTS
B	NS	19000	19000	0.75	33250	560	

CHAPTER 6 TYPE of CONSTRUCTION

TABLE 601 - FIRE RESISTANCE RATING

CONSTRUCTION TYPE	II-B	COMMENTS
STRUCTURAL FRAME	0	
BEARING WALLS		
EXTERIOR	2	
INTERIOR	0	
NON-BEARING WALLS / PARTITIONS		
EXTERIOR	0	
INTERIOR	0	
FLOOR CONSTRUCTION	0	
ROOF CONSTRUCTION	0	

CHAPTER 8 INTERIOR FINISHES

TABLE 803.13 - INTERIOR WALL and CEILING FINISHES

	SPRINKLERED			UNSPRINKLERED			COMMENTS
	INTERIOR EXIT STAIRWAYS and RAMP and EXIT PASSAGEWAYS	CORRIDORS and ENCLOSURE for EXIT ACCESS STAIRWAYS and RAMP	ROOMS and ENCLOSED SPACES	INTERIOR EXIT STAIRWAYS and RAMP and EXIT PASSAGEWAYS	CORRIDORS and ENCLOSURE for EXIT ACCESS STAIRWAYS and RAMP	ROOMS and ENCLOSED SPACES	
[B]	B	C	C	A	B	C	

FLOOD DESIGN DATA

A. FLOOD DESIGN CLASS II
 B. ELEVATION OF PROPOSED LOWEST FLOOR: 974.00'
 1. EXISTING SURVEY ELEVATION = 973.90'
 2. BASE FLOOD ELEVATION = 978.50'
 C. ENCLOSED PORTION OF BUILDING WILL BE WET FLOODPROOFED.

PROJECT SUMMARY

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A 560 SF SEASONAL CONCESSION STAND WITH MALE AND FEMALE RESTROOMS. THE STRUCTURE CONSISTS OF EXTERIOR CMU BEARING WALLS AND A WOOD-FRAMED GABLE ROOF.

GROSS BUILDING AREA: 560 sf
 GROSS BUILDING AREA (INDOOR): 498 sf
 TOTAL BUILDING HEIGHT: 17'-4"

TYPE of CONSTRUCTION: III-B
 FIRE SPRINKLERED THROUGHOUT: NO
 HAZARDOUS MATERIALS: NONE
 FLOOD HAZARD AREA: NONE
 CLIMATE ZONE: 5A
 OCCUPANCY CLASSIFICATION: NON-SEPARATED

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 419.774.4536
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APPLICABLE CODES and AMENDMENTS

BUILDING CODE: 2024 Ohio Building Code (Based on 2021 IBC)
 PLUMBING CODE: 2024 Ohio Plumbing Code (Based on 2021 IPC)
 MECHANICAL CODE: 2024 Ohio Mechanical Code (Based on 2021 IMC)
 ELECTRICAL CODE: 2023 National Electrical Code (NEC)
 ACCESSIBILITY CODES: 2017 ICC / ANSI A117.1 - Accessible and Useable Buildings and Facilities
 ENERGY CODE: 2010 Americans with Disabilities Act (ADA)
 2021 International Energy Conservation Code (IECC)
 FIRE CODE: ASHRAE 90.1 - 2019
 2017 Ohio Fire Code
 NFPA 101 Life Safety Code

CHAPTER 3 USE + OCCUPANCY CLASSIFICATION

OCCUPANCY CLASSIFICATION	FLOOR LEVEL(S)
B BUSINESS	1



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 City of Mount Vernon
 108 Mount Vernon Ave Ext., Mt Vernon, OH 43050



ARCHITECT OF RECORD
 MATTHEW T. TEISMANN - 1616826
 EXPIRATION DATE: 12-31-2025

SUBMITTED: Issue Date
 10.03.2025 Revision 1

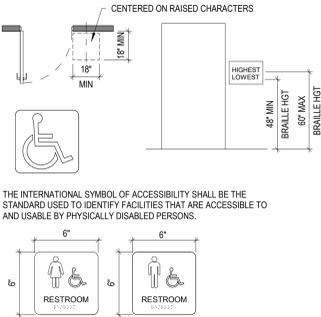
G100
 CODE SUMMARY

MKC PROJECT: 25-012



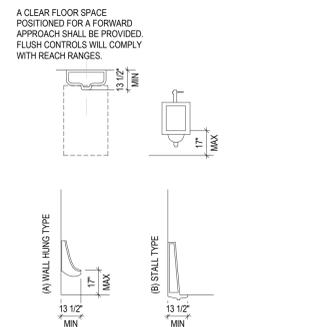
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LETTERS AND NUMERALS SHALL BE RAISED 1/32" MIN. IN UPPER CASE SANS SERIF TYPE AND SHALL BE DUPLICATED WITH GRADE 2 BRAILLE BELOW CORRESPONDING TEXT. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, SIGNS SHALL BE INSTALLED ON THE WALL AT THE LATCH SIDE OF THE DOOR. AT DOUBLE DOORS WITH ONE ACTIVE LEAF, SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT SIDE OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR TO THE RIGHT OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL HAVE A CLEAR FLOOR SPACE OF 18" X 18" CENTERED ON THE TACTILE CHARACTERS, AND BE PLACED BEYOND THE SWING OF THE DOOR. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". CHARACTERS SHOULD BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPER CASE LETTER "O" IS 55% MIN. AND 110% MAX. OF THE HEIGHT OF THE UPPER CASE LETTER "I". STROKE THICKNESS OF THE UPPER CASE LETTER "Y" SHALL BE 15% MAX. OF THE HEIGHT OF THE CHARACTER. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHOULD CONTRAST WITH THEIR BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6" MIN. WITH A NON-GLARE FINISH AND CONTRAST WITH THEIR BACKGROUND. PICTOGRAMS SHALL HAVE TEXT DESCRIPTIONS PLACED DIRECTLY BELOW THE PICTOGRAM.



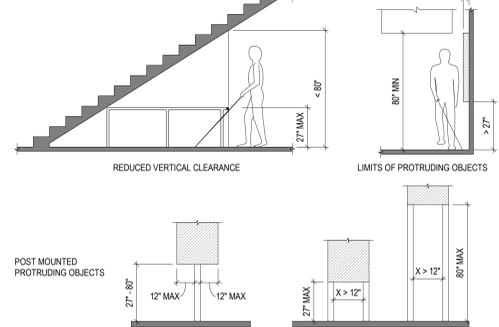
5 GENERAL SIGNAGE **

G110 SCALE: 1/4" = 1'-0"



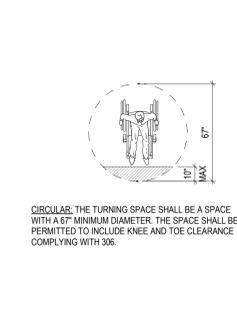
2 CLEAR FLOOR SPACE

G110 SCALE: 1/4" = 1'-0"



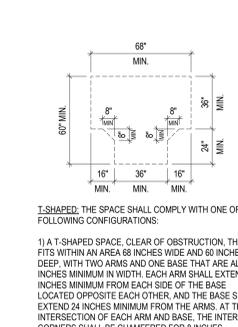
7 GROUND & FLOOR SURFACES

G110 SCALE: 6" = 1'-0"



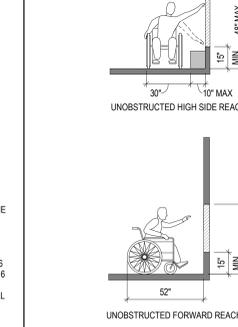
12 URINALS

G110 SCALE: 1/4" = 1'-0"



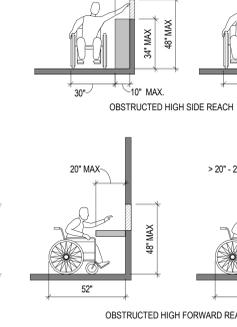
9 PROTRUDING OBJECTS

G110 SCALE: 1/4" = 1'-0"



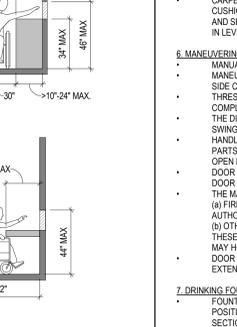
11 TURNING SPACE

G110 SCALE: 1/4" = 1'-0"



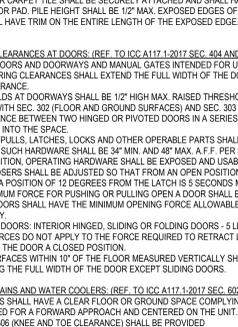
8 LAVATORIES, SINKS, AND MIRRORS

G110 SCALE: 1/4" = 1'-0"



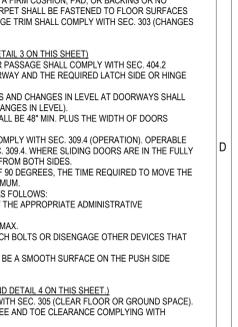
13 WATER CLOSETS

G110 SCALE: 1/4" = 1'-0"



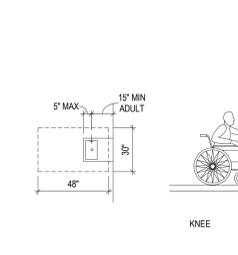
6 GRAB BARS IN WATER CLOSET

G110 SCALE: 1/4" = 1'-0"



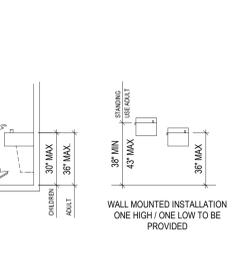
4 DRINKING FOUNTAINS

G110 SCALE: 1/4" = 1'-0"



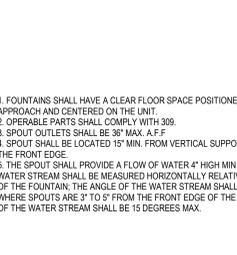
10 REACH RANGES

G110 SCALE: 1/4" = 1'-0"



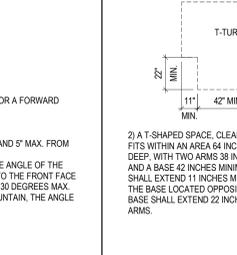
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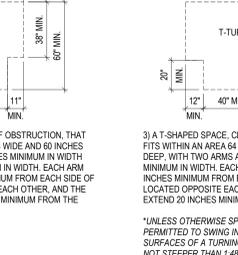
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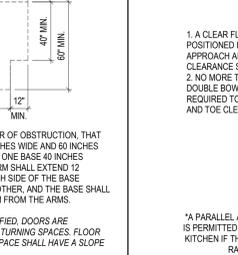
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G110 SCALE: 1/4" = 1'-0"



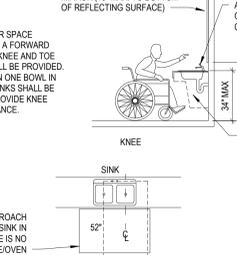
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G110 SCALE: 1/4" = 1'-0"



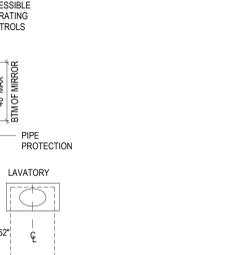
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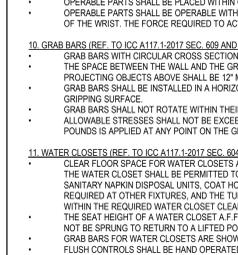
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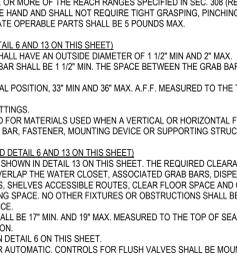
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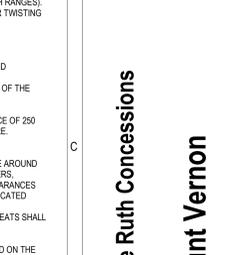
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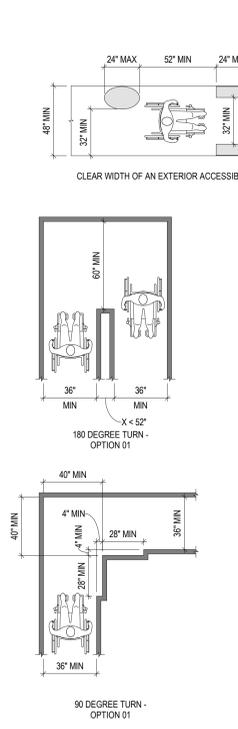
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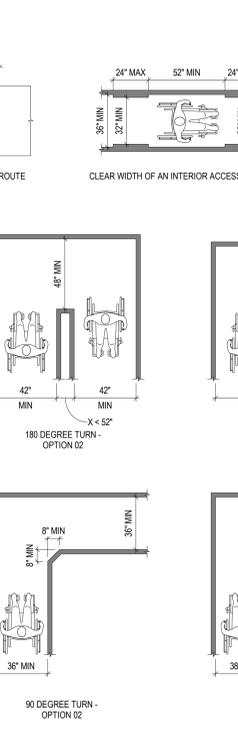
1 ACCESSIBLE ROUTE

G110 SCALE: 1/4" = 1'-0"



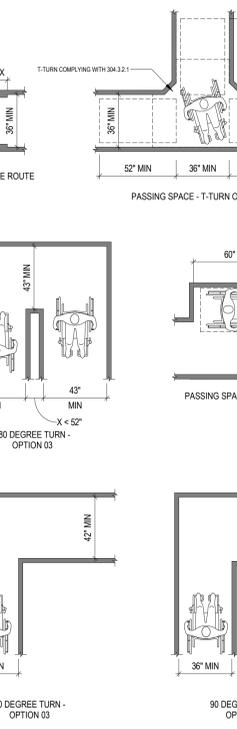
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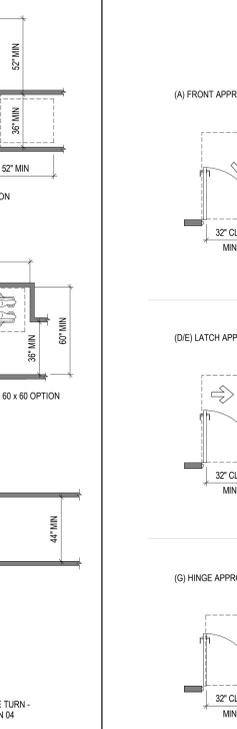
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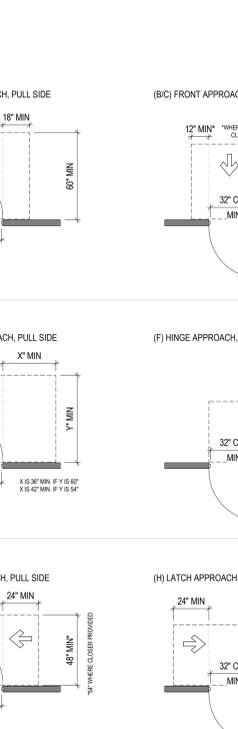
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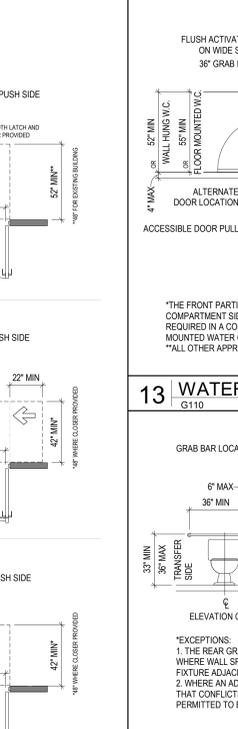
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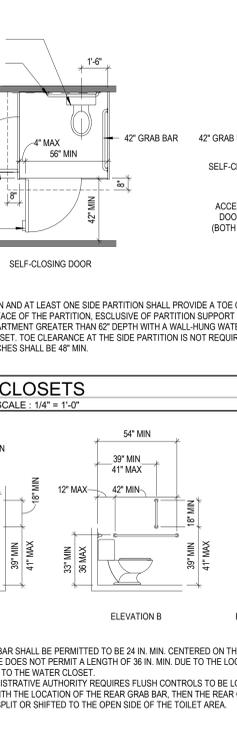
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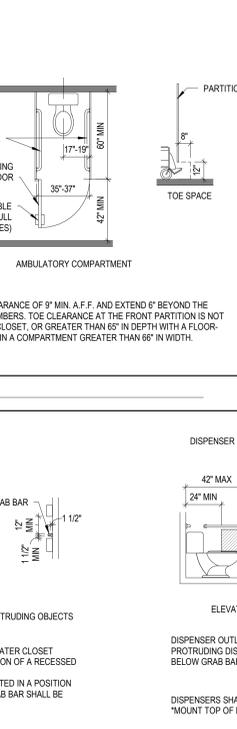
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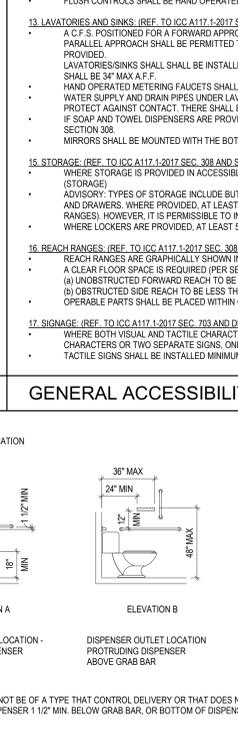
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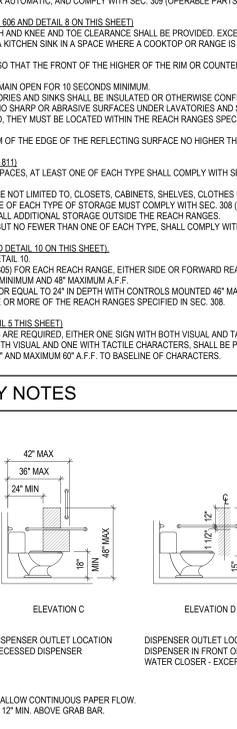
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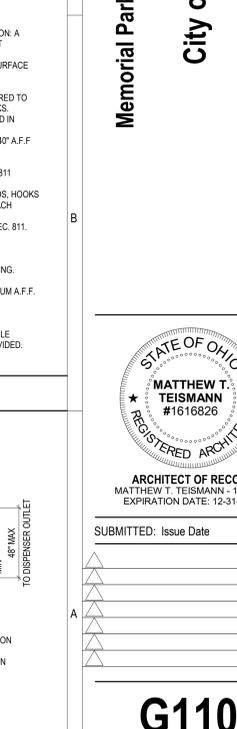
11 TURNING SPACE

G110 SCALE: 1/4" = 1'-0"



11 TURNING SPACE

G110 SCALE: 1/4" = 1'-0"



1. MEANS OF EGRESS: THE MEANS OF EGRESS SHALL COMPLY WITH THE IBC AS MODIFIED BY ICC A117.1-2017, SEC. 1009, WHERE APPLICABLE. EXCEPTION: WHERE PERMITTED BY THE BUILDING OR LIFE SAFETY CODE, ACCESSIBLE MEANS OF EGRESS MAY SHARE A COMMON PATH OF TRAVEL.

2. SITE ACCESSIBILITY: (REF. TO ADA 2010 SEC. 206, ICC A117.1-2017 SEC. 302) AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS, AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING ENTRANCE THEY SERVE. AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL COMPLY WITH ICC A117.1-2017 SEC. 404 (DOORS, DOORWAYS, AND GATES).

3. ACCESSIBLE ROUTE: (REF. TO ICC A117.1-2017 SEC. 402 AND DETAIL 1 ON THIS SHEET) ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS, ELEVATORS, AND PLATFORM LIFTS. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACE THAT ARE ON THE SAME SITE. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. THE MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL BE 36". EXCEPTION: THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32" MIN. FOR A LENGTH OF 24" MAX. PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48" MIN. LONG AND 36" MIN. WIDE. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60" SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAX. PASSING SPACES SHALL BE EITHER A SPACE 60" MIN BY 60" MIN, OR AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE AS SHOWN IN DETAIL 1 ON THIS SHEET. ON AN ACCESSIBLE ROUTE, CHANGES IN LEVEL GREATER THAN 1:20 SHALL BE RAMPED AND COMPLY WITH SEC. 405 (RAMPS) OR SEC. 406 (CURB RAMPS).

4. PROTRUDING OBJECTS: (REF. TO ICC A117.1-2017 SEC. 307 AND DETAIL 9 ON THIS SHEET) OBJECTS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" A.F.F. SHALL PROTRUDE NO MORE THAN 4" MAX. INTO THE CIRCULATION PATH. ELEMENTS LOCATED ON CIRCULATION PATHS, INCLUDING OPERABLE ELEMENTS, MUST COMPLY WITH REQUIREMENTS FOR PROTRUDING OBJECTS. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PIPES MAY OVERHANG CIRCULATION PATHS 12" MAX. WHEN LOCATED BELOW 27" OR ABOVE 80" A.F.F. VERTICAL CLEARANCE SHALL BE 80" HIGH MIN. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80" HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27" MAX. A.F.F.

5. GROUND AND FLOOR SURFACES: (REF. TO ICC A117.1-2017 SEC. 302, 303, AND DETAIL 7 ON THIS SHEET) GROUND AND FLOOR SURFACES SHALL BE STABLE, FIRM AND RESISTANT. VERTICAL CHANGES IN LEVEL OF 1/4" MAX. IN HEIGHT SHALL BE PERMITTED TO BE VERTICAL. BEVELED CHANGES IN LEVEL BETWEEN 1/4" HIGH MIN. AND 1/2" HIGH MAX. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2" HIGH MUST BE RAMPED OR CURB RAMPED. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. PILE HEIGHT SHALL BE 1/2" MAX. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. EDGE TRIM SHALL COMPLY WITH SEC. 303 (CHANGES IN LEVEL).

6. MANEUVERING CLEARANCES AT DOORS: (REF. TO ICC A117.1-2017 SEC. 404 AND DETAIL 3 ON THIS SHEET) MANUAL DOORS AND DOORWAYS AND MANUAL GATES INTENDED FOR USER PASSAGE SHALL COMPLY WITH SEC. 404.2. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE. THRESHOLDS AT DOORWAYS SHALL BE 1/2" HIGH MAX. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SEC. 302 (FLOOR AND GROUND SURFACES) AND SEC. 303 (CHANGES IN LEVEL). THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN A SERIES SHALL BE 48" MIN. PLUS THE WIDTH OF DOORS SWINGING INTO THE SPACE. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS SHALL COMPLY WITH SEC. 309.4 (OPERATION), OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MIN. AND 48" MAX. A.F.F. PER SEC. 309.4. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS: (a) FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. (b) OTHER DOORS, INTERIOR HINGED, SLIDING OR FOLDING DOORS - 5 LBS. MAX. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR A CLOSED POSITION. DOOR SURFACES THROUGH FLOOR SURFACES SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. OPERABLE PARTS SHALL COMPLY WITH 309 (OPERABLE PARTS).

7. DRINKING FOUNTAINS AND WATER COOLERS: (REF. TO ICC A117.1-2017 SEC. 602 AND DETAIL 4 ON THIS SHEET) FOUNTAINS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH SEC. 305 (CLEAR FLOOR OR GROUND SPACE) POSITIONED FOR A FORWARD APPROACH AND CENTERED ON THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 (KNEE AND TOE CLEARANCE) SHALL BE PROVIDED. OPERABLE PARTS SHALL COMPLY WITH 309 (OPERABLE PARTS). TWO DRINKING FOUNTAINS SHALL BE PROVIDED, ONE COMPLYING WITH SEC. 602.1 - 602.6 AND ONE COMPLYING WITH SECTION 602.7 (REF. SEC. 211.2).

8. CONTROLS AND OPERATING MECHANISMS: (REF. TO ICC A117.1-2017 SEC. 309) A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH SEC. 305 (CLEAR FLOOR OR GROUND SPACE) SHALL BE PROVIDED. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SEC. 308 (REACH RANGES). OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX.

9. GRAB BARS: (REF. TO ICC A117.1-2017 SEC. 609 AND DETAIL 6 AND 13 ON THIS SHEET) GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/2" MIN. AND 2" MAX. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33" MIN AND 36" MAX. A.F.F. MEASURED TO THE TOP OF THE GRIPPING SURFACE. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS. ALLOWABLE STRESSES SHALL NOT EXCEED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, EITHER MOUNTING OR SUPPORTING STRUCTURE.

10. WATER CLOSETS: (REF. TO ICC A117.1-2017 SEC. 304 AND DETAIL 8 AND 13 ON THIS SHEET) A CLEAR FLOOR SPACE COMPLYING WITH SEC. 305 (CLEAR FLOOR OR GROUND SPACE) SHALL BE PROVIDED. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE. THE SEAT HEIGHT OF A WATER CLOSET A.F.F. SHALL BE 17" MIN. AND 19" MAX. MEASURED TO THE TOP OF SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. GRAB BARS FOR WATER CLOSETS ARE SHOWN IN DETAIL 8 ON THIS SHEET. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS NO MORE THAN 44" A.F.F.

11. URINALS: (REF. TO ICC A117.1-2017 SEC. 605 AND DETAIL 12 ON THIS SHEET) URINALS SHALL BE THE STALL-TYPE OR THE WALL-TYPE WITH THE RIM 17" MAX. A.F.F. URINALS SHALL BE 13 1/2" DEEP MIN. MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. A C.F.S. POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC, AND COMPLY WITH SEC. 309 (OPERABLE PARTS).

12. LAVATORIES AND SINKS: (REF. TO ICC A117.1-2017 SEC. 606 AND DETAIL 5 ON THIS SHEET) A C.F.S. POSITIONED FOR A FORWARD APPROACH AND KNEE AND TOE CLEARANCE SHALL BE PROVIDED. EXCEPTION: A PARALLEL APPROACH SHALL BE PERMITTED TO A KITCHEN SINK IN A SPACE WHERE A COOKTOP OR RANGE IS NOT PROVIDED. LAVATORY SINKS SHALL BE INSTALLED SO THAT THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE SHALL BE 34" MAX. A.F.F. HAND OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS. IF SOAP AND TOWEL DISPENSERS ARE PROVIDED, THEY MUST BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN SECTION 308. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM OF THE EDGE OF THE REFLECTING SURFACE NO HIGHER THAN 40" A.F.F.

13. STORAGE: (REF. TO ICC A117.1-2017 SEC. 308 AND SEC. 811) WHERE STORAGE IS PROVIDED IN ACCESSIBLE SPACES, AT LEAST ONE OF EACH TYPE SHALL COMPLY WITH SEC. 811 (STORAGE). ADVISORY: TYPES OF STORAGE INCLUDE BUT ARE NOT LIMITED TO, CLOSETS, CABINETS, SHELVES, CLOTHES RODS, HOOKS AND DRAWERS. STORAGE IS PROVIDED AT LEAST ONE OF EACH TYPE OF STORAGE MUST COMPLY WITH SEC. 308 (REACH RANGES). HOWEVER, IT IS PERMISSIBLE TO INSTALL ADDITIONAL STORAGE OUTSIDE THE REACH RANGES. WHERE LOCKERS ARE PROVIDED, AT LEAST 5% BUT NO FEWER THAN ONE OF EACH TYPE, SHALL COMPLY WITH SEC. 811.

14. REACH RANGES: (REF. TO ICC A117.1-2017 SEC. 308 AND DETAIL 10 ON THIS SHEET) REACH RANGES ARE GRAPHICALLY SHOWN IN DETAIL 10. A CLEAR FLOOR SPACE IS REQUIRED PER SEC. 305 FOR EACH REACH RANGE, EITHER SIDE OR FORWARD REACHING. (a) UNOBSTRUCTED FORWARD REACH TO BE 15" MINIMUM AND 48" MAXIMUM A.F.F. (b) UNOBSTRUCTED SIDE REACH TO BE LESS THAN OR EQUAL TO 24" IN DEPTH WITH CONTROLS MOUNTED 46" MAXIMUM A.F.F. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SEC. 308.

15. SIGNAGE: (REF. TO ICC A117.1-2017 SEC. 703 AND DETAIL 5 THIS SHEET) WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS OR TWO SEPARATE SIGNS, ONE WITH VISUAL AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED. TACTILE SIGNS SHALL BE INSTALLED MINIMUM 48" AND MAXIMUM 60" A.F.F. TO BASELINE OF CHARACTERS.



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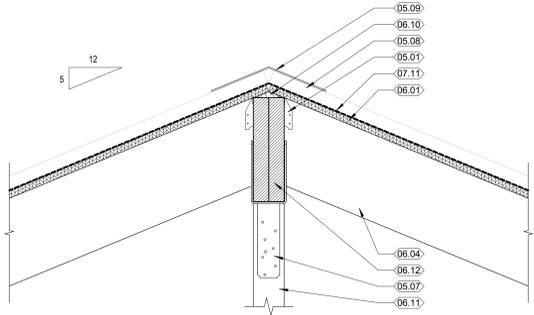
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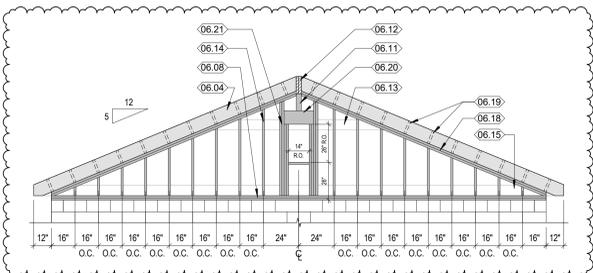
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MATTHEW T. EISMANN
EXPIRATION DATE: 12-31-2025

SUBMITTED: Issue Date

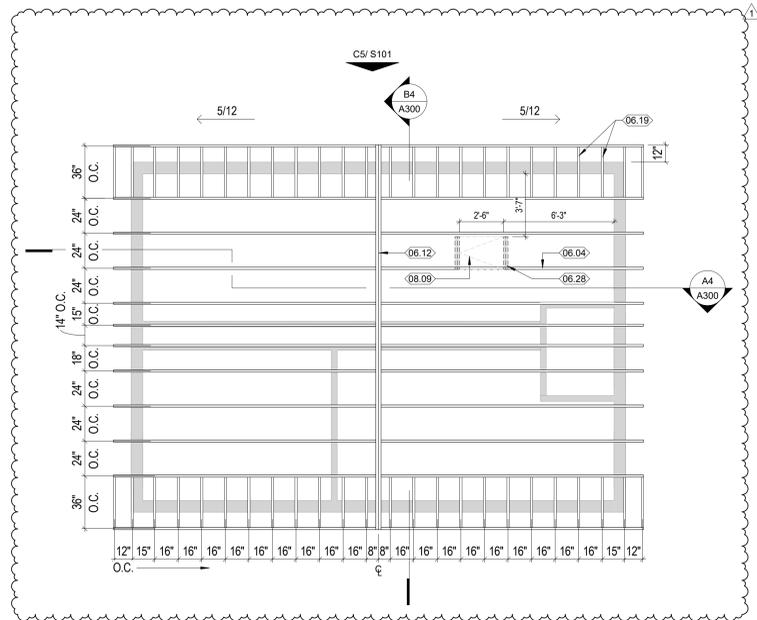
G110
TYPICAL ACCESSIBILITY



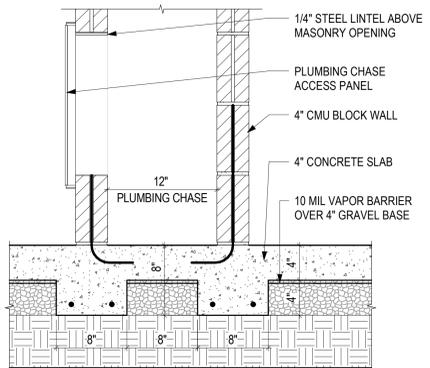
D5 SECTION DETAIL - ROOF RIDGE
S101 SCALE: 1/12" = 1'-0"



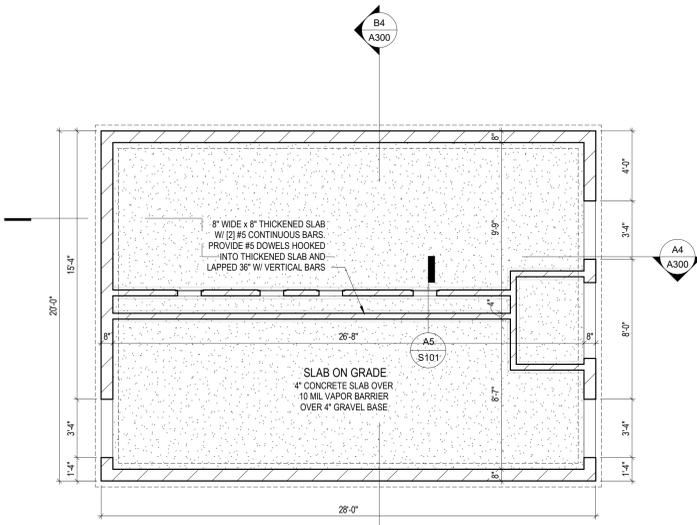
C5 GABLE FRAMING ELEVATION
S101 SCALE: 1/4" = 1'-0"



C3 ROOF FRAMING PLAN
S101 SCALE: 1/4" = 1'-0"



A5 THICKENED SLAB DETAIL
S101 SCALE: 1/12" = 1'-0"



A3 FOUNDATION PLAN
S101 SCALE: 1/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

- A. SEE G002 FOR TYPICAL ABBREVIATIONS, SYMBOLS AND ARCHITECTURAL DIMENSIONING CONVENTIONS.
- B. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
- C. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
- D. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES (OR WOOD BLOCKING) ACCURATELY POSITIONED AND FIRMLY SECURED TO STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.

KEYNOTES

- 05.01 SIMPSON RR RIDGE RAFTER CONNECTOR, FASTEN TO RIDGE BEAM AND RAFTERS PER MANUFACTURER RECOMMENDATIONS.
- 05.07 SIMPSON END-COLUMN CAP (ECCO).
- 05.08 FACTORY-ROLLED STANDING SEAM METAL ROOF, 24 GA. REFER TO ROOF SHOP DRAWINGS FOR CONNECTIONS AND ASSEMBLY.
- 05.09 METAL RIDGE CAP, REFER TO ROOF SHOP DRAWINGS.
- 06.01 3/4" PLYWOOD SHEATHING.
- 06.04 2x10' RAFTER FRAMING AT 24" O.C. REFER TO ROOF FRAMING PLAN.
- 06.08 (2) PRESSURE TREATED 2x8" TOP PLATE, RIPPED TO 6 3/4" AT GABLE WALLS.
- 06.10 RIPPED BEVEL BLOCKING NAILED BETWEEN ROOF RAFTERS TO LVL RIDGE BEAMS BELOW. MATCH BEVEL TO ROOF SLOPE.
- 06.11 (3) 2x4" WOODEN STUD RIDGE BEAM SUPPORT COLUMN, REFER TO DETAIL C4/A300.
- 06.12 DOUBLE 1 3/4"x12" LVL GABLE RIDGE BEAM.
- 06.13 2x8" RAFTER COLLAR TIE CONNECTED TO UPPER THIRD OF GABLE.
- 06.14 2x6 STUDS @ 16" O.C.
- 06.15 2x8" ROOF JOIST.
- 06.16 2x DOUBLE TOP PLATE.
- 06.19 2x10' OUTRIGGER RAFTERS @ 16" O.C. ABOVE 2x TOP PLATE. TYP. @ RAKE, BOTH SIDES.
- 06.20 2x10' HEADER.
- 06.21 2x JACK AND KING STUDS. SEE RAKE DETAIL.
- 06.28 2x8" JOIST BLOCKING.
- 07.11 TAR PAPER ROOF UNDERLAYMENT INSTALLED ON TOP OF SHEATHING.
- 08.09 22x30" BABCOCK DAVIS ATTIC ACCESS PANEL (BNT-T-22x30-F14) MOUNTED BETWEEN JOISTS.



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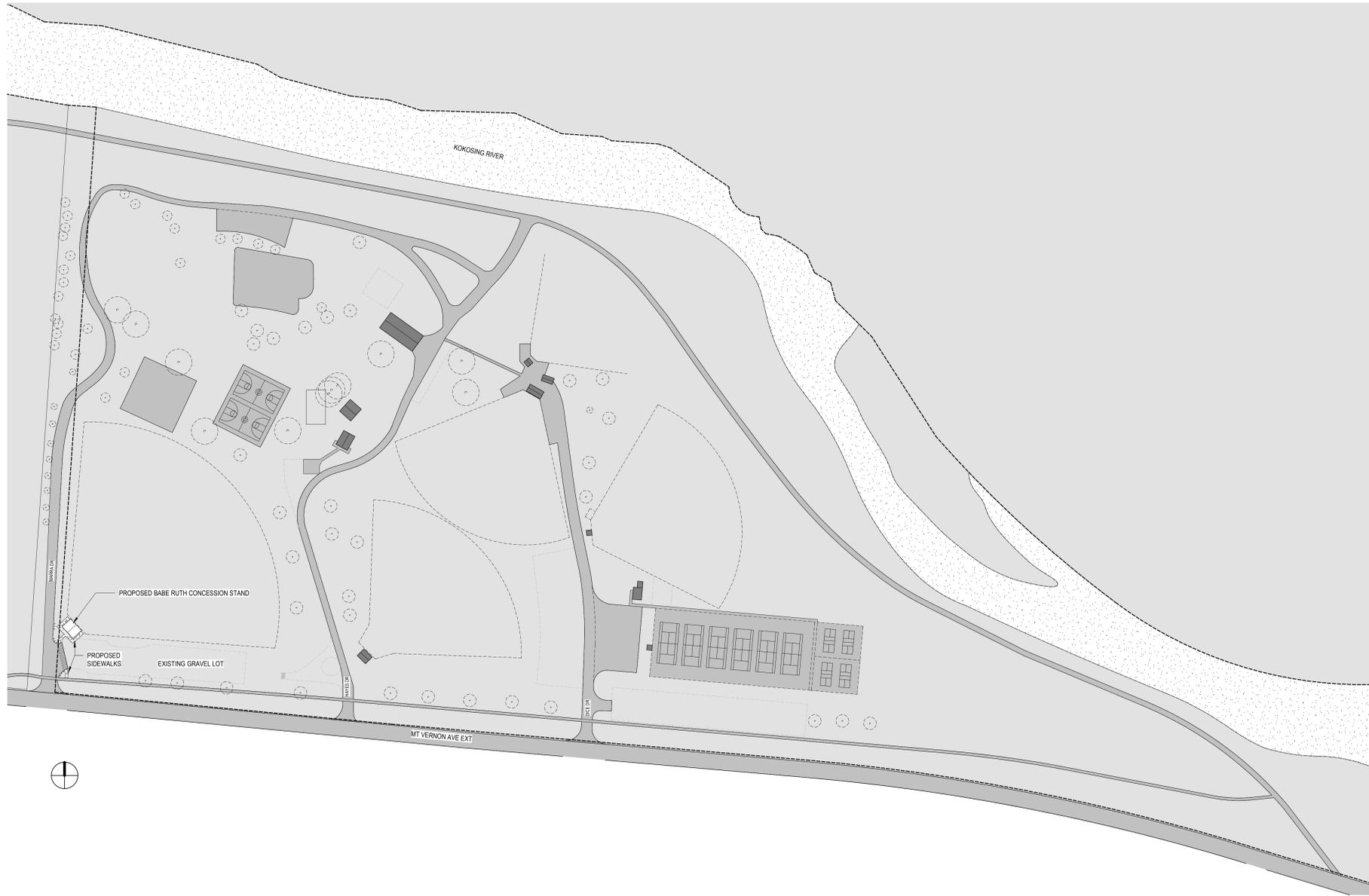
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10.03.2025 Revision 1

S101
FOUNDATION AND FRAMING PLANS & DETAILS

MKC PROJECT: 25-012

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A5 ARCHITECTURAL SITE PLAN
A001 SCALE: 1" = 100'-0"



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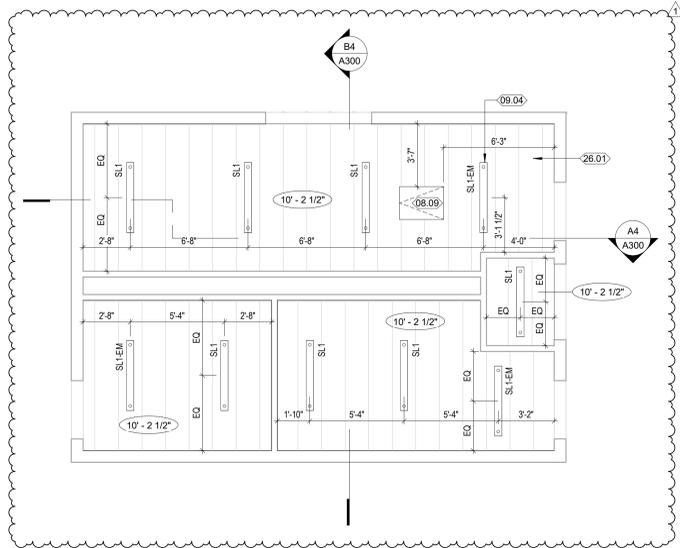
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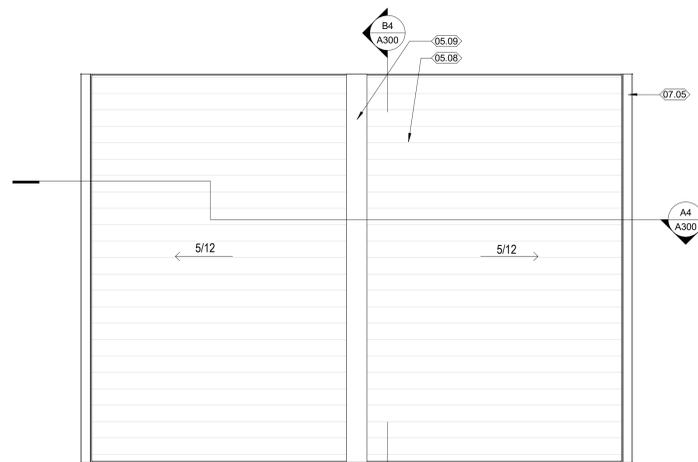
A001
ARCHITECTURAL SITE PLAN

MKC PROJECT: 25-012

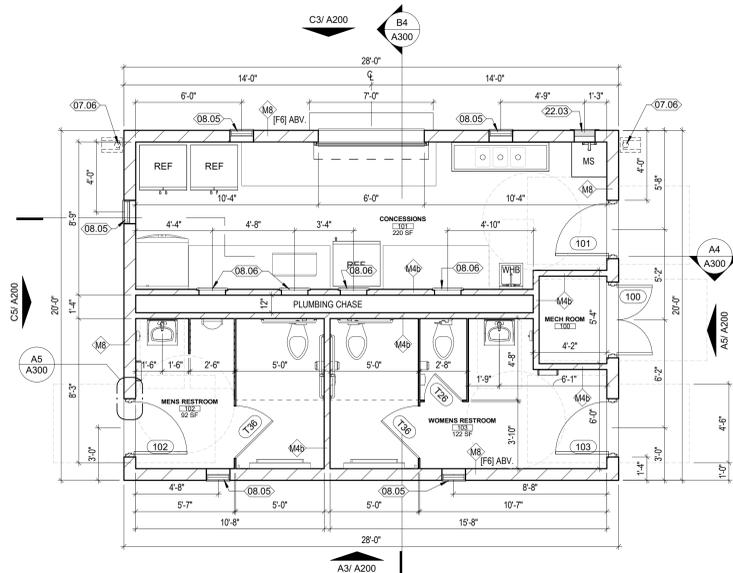
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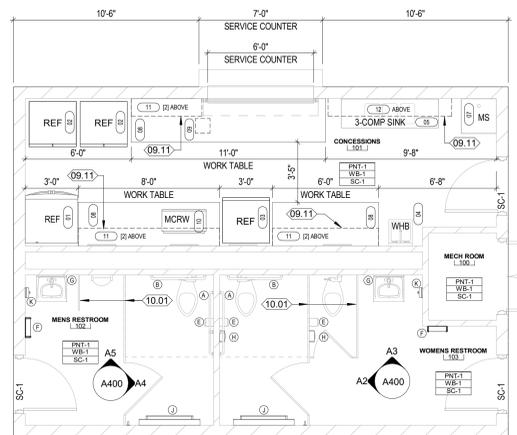
C5 LEVEL 01 REFLECTED CEILING PLAN
A101 SCALE: 1/4" = 1'-0"



C3 ROOF PLAN
A101 SCALE: 1/4" = 1'-0"



A5 LEVEL 01 FLOOR PLAN
A101 SCALE: 1/4" = 1'-0"



A3 EQUIPMENT AND FINISH PLAN
A101 SCALE: 1/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

- A. SEE G002 FOR TYPICAL ABBREVIATIONS, SYMBOLS AND ARCHITECTURAL DIMENSIONING CONVENTIONS.
- B. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
- C. FLATNESS: LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
- D. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES (OR WOOD BLOCKING) ACCURATELY POSITIONED AND FIRMLY SECURED TO STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.

GENERAL NOTES - FINISH PLAN

- A. ALL MISC. ACCESS PANELS, GRILLS, DIFFUSERS TO BE PAINTED TO MATCH THE SURFACE ON WHICH THEY OCCUR.
- B. ALL FLOORING TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR, UNO
- C. REFER TO RCP FOR CEILING FINISHES AND HEIGHTS.
- D. PROVIDE FLOOR TRANSITIONS AND CHANGES IN LEVEL COMPLYING WITH REQUIREMENTS OF APPLICABLE BUILDING CODES AND AUTHORITIES HAVING JURISDICTION.

KEYNOTES

- 05.08 FACTORY-ROLLED STANDING SEAM METAL ROOF, 24 GA. REFER TO ROOF SHOP DRAWINGS FOR CONNECTIONS AND ASSEMBLY.
- 05.09 METAL RIDGE CAP. REFER TO ROOF SHOP DRAWINGS.
- 07.05 4" HALF-ROUND GUTTER, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE OF COLORS.
- 07.06 4" ROUND DOWNSPOUT, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE OF COLORS. PROVIDE GROUND SPLASH BLOCK FOR WATER DEFLECTION.
- 08.05 INSULATED FLOOD COVER, SMARTVENT 1540-520. INSTALL BELOW BASE FLOOD ELEVATION & PER MANUFACTURER'S RECOMMENDATIONS.
- 08.06 16"16" PLUMBING CHASE ACCESS PANEL MOUNTED BY A.F.F.
- 08.09 22x30" BASCOCK DAVIS ATTIC ACCESS PANEL (BNT-1-2230-F14) MOUNTED BETWEEN JOISTS.
- 09.04 TRUSSCORE PVC CEILING BOARD, TONGUE & GROOVE INTERLOCKING SYSTEM.
- 09.11 3 COAT PORTLAND CEMENT STUCCO, FINISH COLOR SELECTED BY OWNER.
- 10.01 TOILET / URINAL PARTITION TYPE, COLOR, AND HARDWARE TO BE SELECTED BY OWNER.
- 22.03 RECESSED WATER BOTTLE-FILL STATION (MURDOCK-MOBRA) W/ ABOVE GROUND FREEZE RESISTANT VALVE SYSTEM (MURDOCK-FRA1).
- 26.01 CENTER LIGHTING ON CEILING FINISH BOARDS. REFER TO ELECTRICAL DRAWINGS FOR FUTURE INFORMATION, TYP.

INTERIOR FINISHES LEGEND:

WALLS:

- PNT-1 PAINT, FIELD COLOR [P-1] SEE FINISH SCHEDULE
- PNT-2 PAINT, FIELD COLOR [P-2] SEE FINISH SCHEDULE
- PNT-3 PAINT, FIELD COLOR [P-3] SEE FINISH SCHEDULE

ROOM NAME

- XX WALL FINISH
- XX WALL BASE FINISH
- XX FLOOR FINISH

RESTROOM ACCESSORY SCHEDULE

		MOUNTING HEIGHT	MODEL
A	GRAB BAR - 42"	34" TO CENTERLINE	BOBRICK B-5806 99x48
B	GRAB BAR - 36"	34" TO CENTERLINE	BOBRICK B-5806 99x36
C	GRAB BAR - 18"	34" TO CENTERLINE	BOBRICK B-5806 99x18
D			
E	TOILET TISSUE DISPENSER	18" TO BOTTOM	BOBRICK B-4288
F	SURFACE MOUNTED HAND DRYER	40" TO BOTTOM	BOBRICK B-7128
G	MIRROR	40" TO BOTTOM	BOBRICK B-2906 (GLASSLESS)
H	SANITARY DISPOSAL	18" TO BOTTOM	BOBRICK B-2770
J	CHANGING TABLE	27" TO BOTTOM	KOALA KARE: KB310-SSWM
K	SOAP DISPENSER	40" TO BOTTOM	BOBRICK B-4112

EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MFR NAME	MODEL NUMBER	COMMENTS
01	1	RESIDENTIAL REF.	EXISTING BY OWNER	EXISTING BY OWNER	-
02	2	COMMERCIAL REF.	EXISTING BY OWNER	EXISTING BY OWNER	-
03	1	GLASS DOOR DRINK FRIDGE	PREMIUM LEVELLA	PRN166DX	SILVER FINISH
04	1	WALL MOUNTED HAND SINK	ELKAY	CHS1716C	-
05	1	3-COMP SINK	REGENCY	60053122012X	-
06	0	UNDER-COUNTER FREEZER	-	-	-
07	1	MOP SINK	MUSTEE	63M	-
08	3	WORK TABLE	AERO MFG.	4TSB-30xx [px: 72,96,132]	SHELF & 4" BACKSPLASH
09	1	POS SYSTEM	TBD	TBD	-
10	1	MICROWAVE	TBD	TBD	-
11	6	METAL SHELVING	AERO MFG.	4W-12xx [px: 72,96,132]	[2] EACH LENGTH
12	1	METAL SHELVING W/ HOOKS	AERO MFG.	4WSP-1284	-



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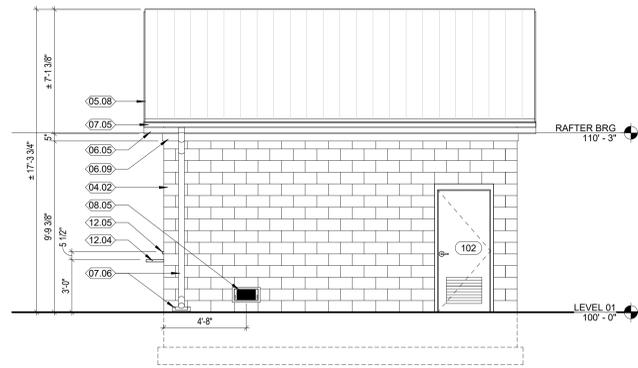
A101
PROPOSED PLANS

MKC PROJECT: 25-012

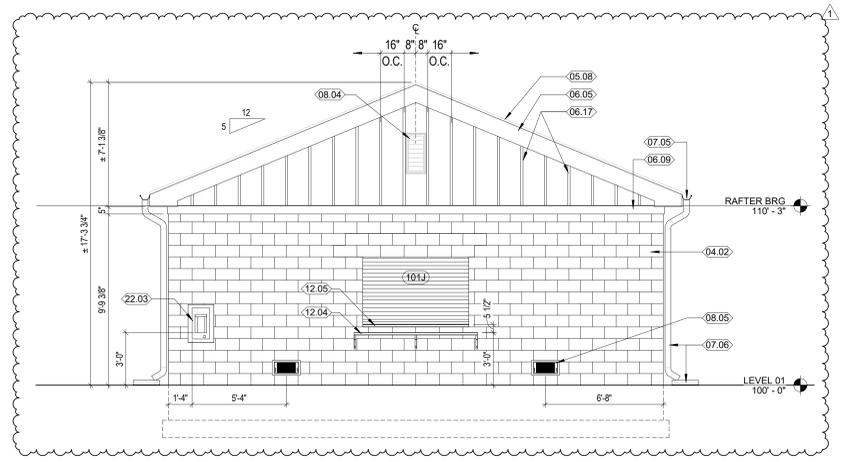
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KEYNOTES

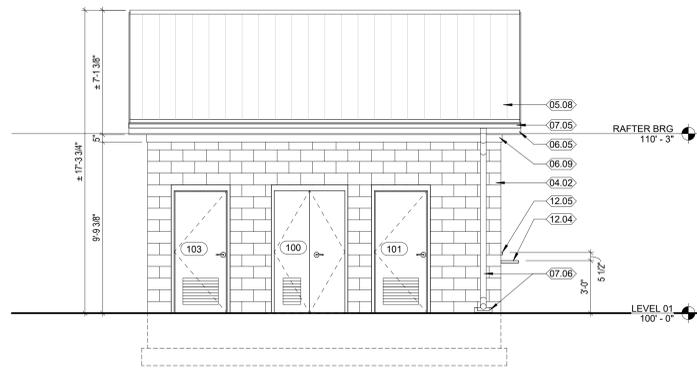
- 04.02 8" SPLIT FACE CMU, BLOCK COLOR TO BE SELECTED BY OWNER.
- 05.08 FACTORY-ROLLED STANDING SEAM METAL ROOF, 24 GA. REFER TO ROOF SHOP DRAWINGS FOR CONNECTIONS AND ASSEMBLY.
- 06.05 1x FIBER CEMENT FASCEA BOARD
- 06.09 1x COMPOSITE PVC TRIM
- 07.05 HARDIE PANEL FIBER CEMENT SIDING, FINISH COLOR PNT-3.
- 07.06 4" HALF-ROUND GUTTER, FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE OF COLORS. PROVIDE GROUND SPLASH BLOCK FOR WATER DEFLECTION.
- 08.04 1600' STATIONARY LOUVER (BUSHING ELEVATION 4" DEPTH)
- 08.05 INSULATED FLOOD LOUVER (SMARTVENT 1540-520, INSTALL BELOW BASE FLOOD ELEVATION & PER MANUFACTURER RECOMMENDATIONS)
- 12.04 7" 304 STAINLESS STEEL SERVICE COUNTERTOP, MOUNTED 3" ABOVE GRADE.
- 12.05 6" 304 STAINLESS STEEL SERVICE COUNTERTOP, SLOPING 1/4" PER 1'-0" TO EXTERIOR. REFER TO OVERHEAD DOOR SPEC FOR REQUIRED OVERHAND DEPTHS.
- 22.03 RECESSED WATER BOTTLE FILL STATION (MURDOCK M0BR4) W/ ABOVE GROUND FREEZE RESISTANT VALVE SYSTEM (MURDOCK FR41).



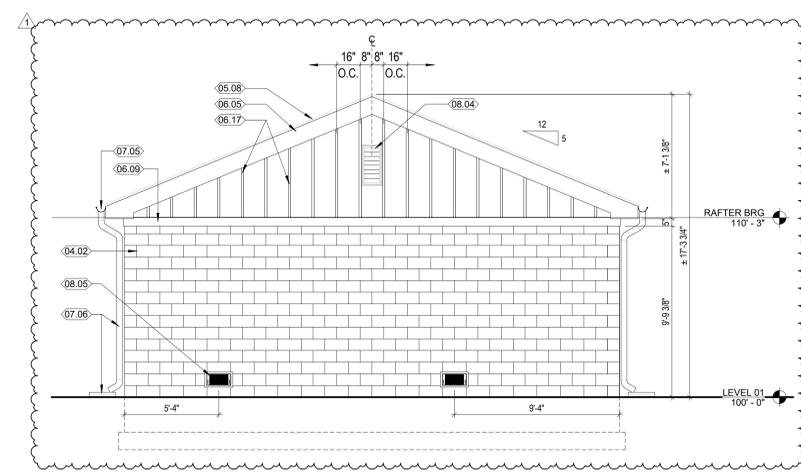
C5 SOUTH EAST ELEVATION
A200 SCALE: 1/4" = 1'-0"



C3 SOUTH WEST ELEVATION
A200 SCALE: 1/4" = 1'-0"



A5 NORTH WEST ELEVATION
A200 SCALE: 1/4" = 1'-0"



A3 NORTH EAST ELEVATION
A200 SCALE: 1/4" = 1'-0"



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A200
BUILDING ELEVATIONS

MKC PROJECT: 25-012

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PLUMBING SPECIFICATIONS

220000 - BASIC PLUMBING REQUIREMENTS

A. GENERAL NOTES

1. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW ALL DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTORS RESPONSIBILITY TO PROVIDE THEIR SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
2. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS WORK TO COMPLY WITH THE SCHEDULE AND THE PROJECT COMPLETION DATE.

B. GENERAL REQUIREMENTS

1. THIS CONTRACTOR SHALL PROVIDE ALL INSURANCE, LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE PLUMBING SYSTEM AS INTENDED ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH THE CONSTRUCTION MANAGER AS REQUIRED.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF CONTRACT.
3. WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT. MAINTAIN ALL REQUIRED NEC SERVICE CLEARANCES AND DO NOT ROUTE PIPES ABOVE ELECTRIC PANELS.
5. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER INCORPORATING GOOD ENGINEERING PRACTICES.
6. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
7. ALL MATERIAL INSTALLED IN PLENUM CEILINGS SHALL BE PLENUM RATED INCLUDING BUT NOT LIMITED TO: PIPING, INSULATION.

C. CODES

1. ALL WORK SHALL CONFORM TO ALL STATE, COUNTY, CITY AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED TO THE CONTRACTOR.

D. LICENSES, PERMITS, INSPECTIONS & FEES

1. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THEIR WORK. IF PERMITS ARE PROVIDED BY THE OWNER, DO NOT INCLUDE IN BID.
2. FURNISH TO THE CONSTRUCTION MANAGER OR BUILDING OWNER ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

E. TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS

1. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY THE ENGINEER PRIOR TO THE SHOP DRAWING SUBMITTAL PROCESS. FOR ACCEPTANCE, THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.
2. CONTRACTOR SHALL SUBMIT SUBSTITUTION REQUESTS TO THE ENGINEER FOR APPROVAL. SUBMISSIONS SHALL BE MADE EARLY ENOUGH IN PROJECT TO ALLOW SEVEN (7) WORKING DAYS FOR THE ENGINEERS REVIEW WITHOUT CAUSING DELAYS OR CONFLICTS TO THE JOBS PROGRESS. SUBMITTALS SHALL BEAR THE STAMP OF THE CONTRACTOR AND THE SUB-CONTRACTOR SHOWING THAT HE HAS REVIEWED AND CONFIRMED THAT THE SUBMITTALS ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR INDICATE WHERE EXCEPTIONS HAVE BEEN TAKEN.

F. GUARANTEE

1. THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORK PROVIDED UNDER THEIR CONTRACT AND SHALL MAKE GOOD, REPAIR OR REPLACE AT THEIR OWN EXPENSE, ANY DEFECTIVE WORK, MATERIAL, OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE (IN WRITING) OF THE INSTALLATION. EXTENDED WARRANTIES ARE AS SPECIFIED WITH INDIVIDUAL EQUIPMENT.

G. RECORD DRAWINGS

1. THIS CONTRACTOR SHALL MAINTAIN ONE COPY OF DRAWINGS ON THE JOB SITE TO RECORD DEVIATIONS FROM CONTRACT DRAWINGS.
2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THE CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. RECORD DRAWINGS SHALL BE SUBMITTED TO THE OWNER.

H. DISCREPANCIES IN DOCUMENTS

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE PLUMBING SYSTEMS. WHERE DRAWINGS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, ADVISE THE CONSTRUCTION MANAGER IN WRITING, PRIOR TO SUBMITTAL OF BID. THE CONSTRUCTION MANAGER IS RESPONSIBLE TO ADVISE THE ARCHITECT/ENGINEER, IN WRITING, OF DISCREPANCIES IN THE CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF BID. OTHERWISE, THE ARCHITECTS/ENGINEER'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.

I. SLEEVES

1. THIS CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH ITS RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2" ABOVE THE FLOOR. CONTRACTOR MUST COORDINATE ANY CORE DRILLING OR CUTTING OF OPENINGS IN MASONRY FLOORS OR WALLS.
2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL, SO AS TO RETAIN THEIR FIRE RATING.
3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE 22 U.S.G. GALVANIZED STEEL MINIMUM.

J. HANGERS

1. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.
2. HANGERS SHALL BE FASTENED TO BUILDING STRUCTURE OR CONCRETE, BUT NOT TO ADJACENT PIPING, DUCTWORK, CONDUIT, ETC. HANGING FROM DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORD OF JOIST. WHERE INTERFERENCES OCCUR, AND IN ORDER TO SUPPORT DUCTWORK OR PIPING, THE CONTRACTOR MUST INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, AND OTHER EQUIPMENT.
3. HANGERS FOR ALL INSULATED PIPING SHALL BE SIZED AND INSTALLED FOR THE OUTER DIAMETER OF INSULATION. INSTALL 6" LONG SPLIT CIRCLE SADDLE BETWEEN THE HANGER AND THE PIPE INSULATION.
4. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED.

END OF SECTION 220000 - BASIC PLUMBING REQUIREMENTS

220010 - PLUMBING

A. SCOPE OF WORK

1. THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION AND FACILITIES NECESSARY FOR, REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, COMPLETION AND TESTING OF ALL WORK FOR THE PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - 1.1. COMPLETE SANITARY PIPING SYSTEMS OF WASTE, DRAINS, AND VENTS.
 - 1.2. COMPLETE HOT WATER SUPPLY, HOT WATER RETURN, AND COLD WATER PIPING SYSTEMS, AS SHOWN, AND ALL APPURTENANCES AND INSULATION.
 - 1.3. COMPLETE NATURAL GAS DISTRIBUTION SYSTEM.
 - 1.4. FIXTURES AND EQUIPMENT AS SCHEDULED.
 - 1.5. TESTS AND ADJUSTMENTS.
2. BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF THE PLUMBING SYSTEM, MATERIALS, AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCES AND CONFRONTATIONS.

B. EQUIPMENT AND INSTALLATION

1. REFER TO PLANS FOR SCHEDULES OF EQUIPMENT AND FIXTURES. EQUALS ARE ALLOWED.
2. SANITARY PIPING
 - 2.1. UNDER GROUND AND CONCEALED ABOVE GRADE WASTE, DRAIN AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH FUSED "GLUED" WELDED JOINTS.
 - 2.2. ABOVE GRADE EXPOSED WASTE, DRAIN AND VENT PIPING SHALL BE CAST IRON PIPE.
 - 2.3. WASTE, DRAIN AND VENT PIPING IN PLENUM CEILING SPACES SHALL BE CAST IRON PIPE.
 - 2.4. LABEL ALL ABOVE GRADE WASTE, DRAIN AND VENT PIPING, INDICATE DIRECTION OF FLOW ON ~~PIPE AND HANGERS~~.
 - 2.5. INSTALL AUTOMATIC BACKWATER VALVE ON SANITARY EXIT OF BUILDING FOOTPRINT. FIELD LOCATE VALVE AS TO NOT INTERRUPT ENTRANCE & EXIT PATHS OF BUILDING.
3. POTABLE WATER PIPING SHALL BE AS FOLLOWS:
 - 3.1. DOMESTIC RATED COPPER TYPE "K" OR "L" WITH SOLDERED JOINTS, IN ACCORDANCE WITH OPC, CHAPTER 6, TABLE 605.4
 - 3.2. AT THIS CONTRACTORS OPTION: COPPER PIPING WITH PRO-PRESS SMART FITTINGS BY VIEGA CAN BE PROVIDED AND INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS.
4. PIPING OF DISSIMILAR METALS MUST BE DI-ELECTRICALLY SEPARATED.
5. INSULATE ALL COLD WATER PIPING WITH A MINIMUM OF 1" THICK (K=0.23 @ 75 °F) PIPE INSULATION WITH AN ALL SERVICE JACKET TO MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATINGS. THICKNESS SCHEDULE SHALL BE 1" FOR 2" PIPE & SMALLER AND 1 1/2" FOR 2 1/2" PIPE AND LARGER.
6. PROVIDE WATER HAMMER ARRESTORS IN BRANCH LINES SERVING RESTROOM FLUSH VALVE FIXTURES.
7. INSTALL ALL NECESSARY PIPE HANGERS, SADDLES, AND CARRIERS TO PROPERLY SUPPORT ALL PIPING AND FIXTURES. HANGERS SHALL SUIT TYPE OF PIPING PROVIDED AND BE SPACED AT A MAXIMUM SPAN AS REQUIRED BY STATE CODE. PROVIDE SWAY AND SEISMIC BRACING WHERE REQUIRED BY CODES.
8. INSULATE ALL HOT WATER SUPPLY AND RETURN PIPING WITH A MINIMUM 1" THICK (K=0.23 @ 75 °F) PIPE INSULATION WITH AN ALL SERVICE JACKET TO MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATINGS. THICKNESS SCHEDULE SHALL BE 1" FOR 2" PIPE & SMALLER AND 1 1/2" FOR 2 1/2" PIPE AND LARGER.
9. STERILIZE WATER SYSTEM IN ACCORDANCE WITH STATE AND LOCAL CODES.
10. ESCUTCHEONS SHALL BE CHROME PLATED. SIZE AS REQUIRED AND PLACED AT ALL PIPE PENETRATIONS AT WALLS, FLOORS, AND CEILINGS IN FINISHED AREAS.
11. LEAKAGE TESTS SHALL BE PER LOCAL CODES.
12. FLASHING SHALL BE SEALED WATERTIGHT AND PERFORMED IN ACCORDANCE WITH THE ROOFING CONTRACTOR.

END OF SECTION 220010 - PLUMBING

PLUMBING SYMBOLS & ABBREVIATIONS	
SYMBOL	DESCRIPTION
	AUTOMATIC BACKWATER VALVE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	SANITARY
	VENT
	FLOOR DRAIN
	FLOOR SINK
	CLEAN OUT
	ELECTRIC WATER HEATER
	BACKFLOW PREVENTER
	BALL VALVE
	RELIEF VALVE
	UNION
	AUTOMATIC BACKWATER VALVE



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43056

SUBMITTED: 08-22-2025

CORRECTION LETTER 10-03-25

P001
PLUMBING SPECIFICATIONS
MKC PROJECT:



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SUBMITTED: 08-22-2025

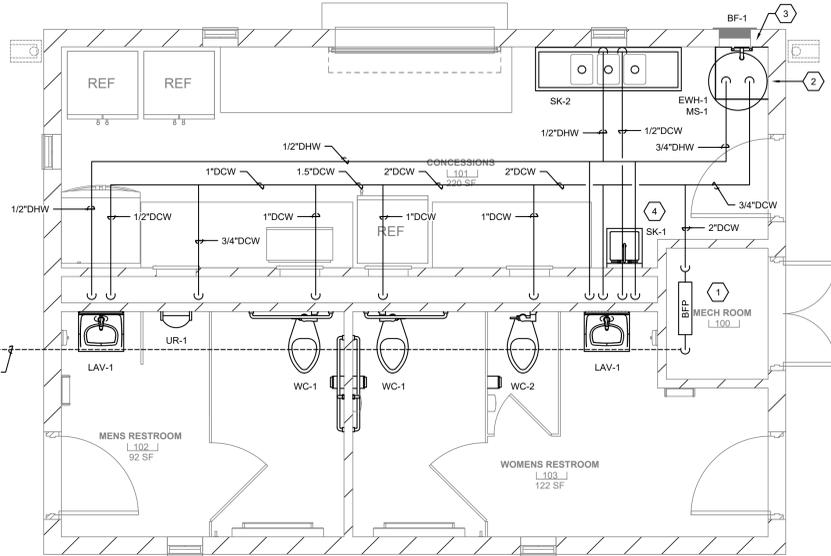
CORRECTION LETTER 10-03-25

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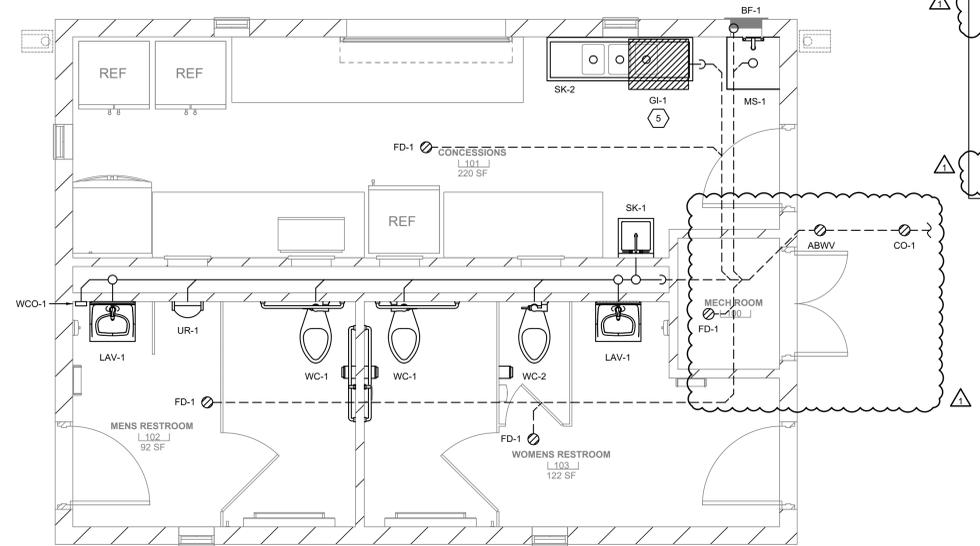
PLUMBING PLANS

MKC PROJECT:

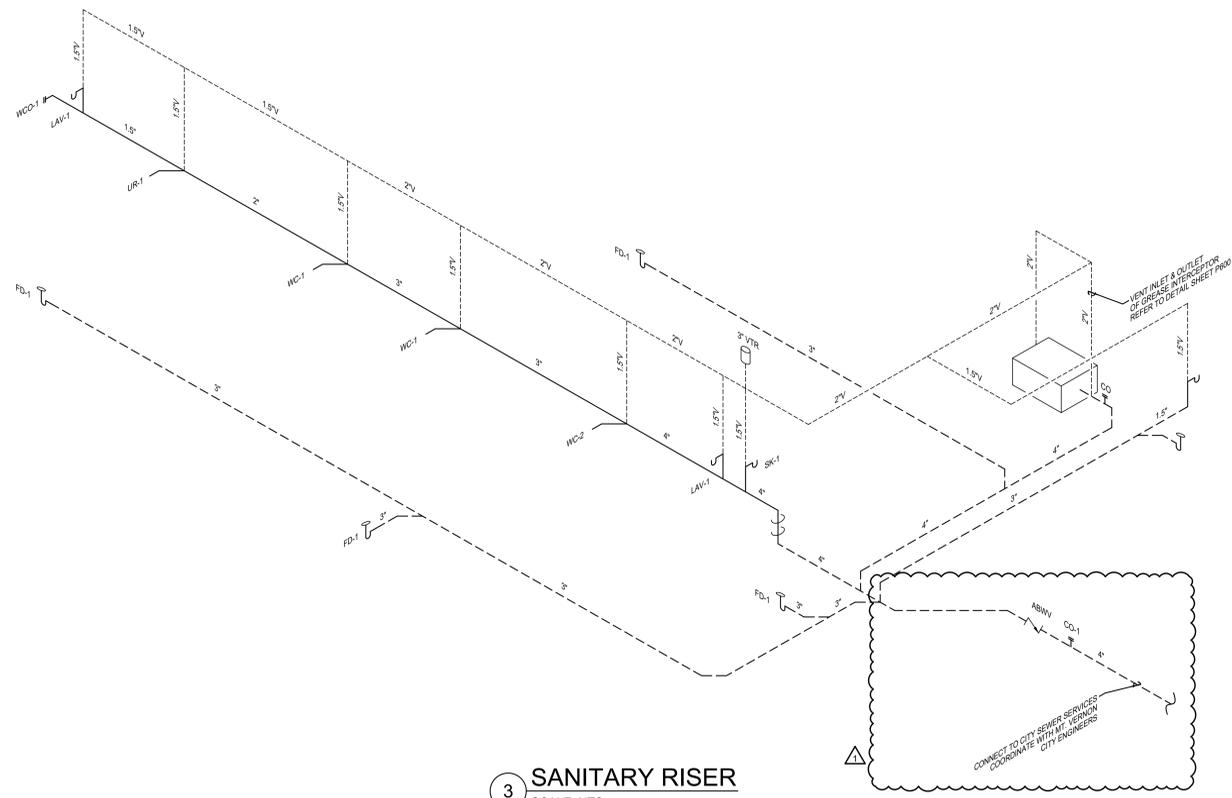
- CODED NOTES**
- 1.5" DOMESTIC WATER SERVICE. PROVIDE 1.5" BACKFLOW APPROVED BY CITY OF MOUNT VERNON. PROVIDE DRAIN VALVE WITH HOSE CONNECTION FOR WINTERIZING BUILDING.
 - MOUNT EWH-1 OVER MOP SINK IN SPACE. REFER TO DETAIL ON P800. BOTTOM OF WATER HEATER TO BE 4.5' ABOVE FINISHED FLOOR ELEVATION.
 - ROUTE 3/4" DCW PAST WATER HEATER. BRANCH OFF 1/2" DCW TO BOTH MOP SINK AND BOTTLE FILLER. ROUTE 1/2" DHW TO MOP SINK.
 - ROUTE 1/2" DCW & DHW TO LAV-1 & SK-1.
 - INSTALL GREASE INTERCEPTOR ON GRADE BELOW THREE COMPARTMENT SINK. ROUTE THREE COMPARTMENT SINK DISCHARGE TO GREASE INTERCEPTOR. PROVIDE CLEANOUT PLUGS ON INLET AND OUTLET OF GREASE INTERCEPTOR. REFER TO DETAIL ON P800.
 - PROVIDE AUTOMATIC BACKWATER VALVE ON SANITARY EXITING BUILDING FOOTPRINT. LOCATE OUT OF WAY OF BUILDING ENTRANCE.



1 WATER PLAN
SCALE: 3/8" = 1'-0"



2 SANITARY PLAN
SCALE: 3/8" = 1'-0"



3 SANITARY RISER
SCALE: NTS



MECHANICAL SPECIFICATIONS

230000 - BASIC MECHANICAL REQUIREMENTS

A. GENERAL NOTES

1. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDE THEIR SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
2. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS TO COMPLY WITH THE SCHEDULE AND THE PROJECT COMPLETION DATE.

B. GENERAL REQUIREMENTS

1. THIS CONTRACTOR SHALL PROVIDE ALL INSURANCE, LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE MECHANICAL SYSTEM AS INTENDED ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH THE CONSTRUCTION MANAGER AS REQUIRED.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF CONTRACT.
3. WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL MECHANICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT, INCLUDING NEC WORKING CLEARANCES.
5. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER INCORPORATING GOOD ENGINEERING PRACTICES.
6. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
7. ALL MATERIAL INSTALLED IN PLENUM CEILINGS SHALL BE PLENUM RATED INCLUDING BUT NOT LIMITED TO: DUCTWORK, INSULATION, CONDENSATE DRAINS, CONTROL WIRING.

C. CODES

1. ALL WORK SHALL CONFORM TO ALL STATE, COUNTY, CITY AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED TO THE CONTRACTOR.

D. LICENSES, PERMITS, INSPECTIONS & FEES

1. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THEIR WORK. IF PERMITS ARE PROVIDED BY THE OWNER, DO NOT INCLUDE IN BID.
2. FURNISH TO THE CONSTRUCTION MANAGER OR BUILDING OWNER ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

E. TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS

1. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL, OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY THE ENGINEER PRIOR TO THE SHOP DRAWING SUBMITTAL PROCESS, FOR ACCEPTANCE. THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL SUBMIT SUBSTITUTION REQUESTS TO THE ENGINEER FOR APPROVAL. SUBMITTALS SHALL BEAR THE STAMP OF THE CONTRACTOR AND THE SUB-CONTRACTOR SHOWING THAT THEY HAVE REVIEWED AND CONFIRMED THAT THE SUBMITTALS ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR INDICATE WHERE EXCEPTIONS HAVE BEEN TAKEN.

F. GUARANTEE

1. THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORK PROVIDED UNDER THEIR CONTRACT AND SHALL MAKE GOOD, REPAIR OR REPLACE AT THEIR OWN EXPENSE, ANY DEFECTIVE WORK, MATERIAL, OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE (IN WRITING) OF THE INSTALLATION. EXTENDED WARRANTIES ARE AS SPECIFIED WITH INDIVIDUAL EQUIPMENT.

G. RECORD DRAWINGS

1. THIS CONTRACTOR SHALL MAINTAIN ONE COPY OF DRAWINGS ON THE JOB SITE TO RECORD DEVIATIONS FROM CONTRACT DRAWINGS.
2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THE CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. RECORD DRAWINGS SHALL BE SUBMITTED TO THE OWNER.

H. DISCREPANCIES IN DOCUMENTS

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE MECHANICAL SYSTEMS. WHERE DRAWINGS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, ADVISE THE CONSTRUCTION MANAGER IN WRITING, PRIOR TO SUBMITTAL OF BID. THE CONSTRUCTION MANAGER IS RESPONSIBLE TO ADVISE THE ARCHITECT/ENGINEER. IN WRITING, OF DISCREPANCY IN THE CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF BID. OTHERWISE, THE ARCHITECT'S/ENGINEER'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.

I. SLEEVES

1. THIS CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH ITS RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2" ABOVE THE FLOOR. CONTRACTOR MUST COORDINATE ANY CORE DRILLING OR CUTTING OF OPENINGS IN MASONRY FLOORS OR WALLS.
2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, HILTI FIRE RATED SEALANTS OR EQUAL, SO AS TO RETAIN THEIR FIRE RATING. USE HILTI STANDARD INSTALLATION METHODS.
3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE 22 U.S.G. GALVANIZED STEEL MINIMUM.

J. HANGERS

1. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.
2. HANGERS SHALL BE FASTENED TO BUILDING STRUCTURE OR CONCRETE, BUT NOT TO PIPING. HANGING FROM DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORD OF JOIST. WHERE INTERFERENCES OCCUR, AND IN ORDER TO SUPPORT DUCTWORK OR PIPING, THE CONTRACTOR MUST INSTALL TRAPEZOID TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, AND OTHER EQUIPMENT.
3. HANGERS FOR ALL INSULATED PIPING SHALL BE SIZED AND INSTALLED FOR THE OUTER DIAMETER OF INSULATION. INSTALL 6" LONG SPLIT CIRCLE SADDLE BETWEEN THE HANGER AND THE PIPE INSULATION.
4. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED.

END OF SECTION 230000 - BASIC MECHANICAL REQUIREMENTS

MECHANICAL SPECIFICATIONS

230010 - HEATING, VENTING, AND AIR CONDITIONING

A. SCOPE OF WORK

1. THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION AND FACILITIES NECESSARY FOR, REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, COMPLETION AND TESTING OF ALL THE WORK FOR THE MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - 1.1. HVAC UNITS, EQUIPMENT, AND APPURTENANCES.
 - 1.2. DUCTWORK, FITTINGS, DAMPERS AND INSULATION.
 - 1.3. PIPING, FITTINGS AND INSULATION.
 - 1.4. HANGERS AND STEEL FRAMING FOR SUPPORT.
 - 1.5. THIRD PARTY TESTING, ADJUSTING, AND BALANCING.

2. BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF THE HVAC SYSTEM, MATERIALS, AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCES AND CONFRONTATIONS.

B. HVAC EQUIPMENT

1. PRIMARY HEATING AND AIR CONDITIONING UNITS ARE TO BE FURNISHED BY THIS CONTRACTOR AS SCHEDULED AND SHOWN. REFER TO PLANS FOR REQUIREMENTS. ALL EQUIPMENT SHALL INCLUDE A FULL ONE YEAR PARTS AND LABOR WARRANTY WITH A REQUIRED 11 MONTH OWNER WALK THROUGH.
2. ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES, AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
3. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL AIR CONDITIONING EQUIPMENT CONDENSATE MUST BE TRAPPED IN ACCORDANCE WITH MANUFACTURERS DATA. SEE DRAWINGS FOR ADDITIONAL DETAILS.
4. IF THE CONTRACT SELECTS EQUIPMENT THAT IS NOT BASIS OF DESIGN, THEY SHALL BE FULLY RESPONSIBLE FOR COORDINATING FIELD ADJUSTMENTS DUE TO VARYING DIMENSIONS, CLEARANCES, WEIGHTS, POWER REQUIREMENTS, ETC.

C. EQUIPMENT:

1. EXHAUST FANS TO BE GREENHECK OR LOREN COOK.
2. AIR DEVICES TO BE PRICE INDUSTRIES OR KRUEGER.

D. METAL DUCTWORK

1. NO DUCTWORK SHALL BE FABRICATED PRIOR TO JOB SITE VISIT AND APPROVAL BY THE CONSTRUCTION MANAGER. A SKETCH MUST BE SUBMITTED INDICATING SIGNIFICANT DEVIATIONS FROM DESIGN AND MUST BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION OR INSTALLATION.
2. EXCEPT AS OTHERWISE INDICATED, FABRICATE AND INSTALL RECTANGULAR, OVAL, AND ROUND DUCTWORK WITH GALVANIZED STEEL, IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" OF THE LATEST EDITION, WHERE OTHER CODES ARE ENFORCED, (IE. OMC, ETC.) USE THE MOST STRINGENT CODE FOR DUCT CONSTRUCTION STANDARDS.
3. EXCEPT WHERE OTHERWISE INDICATED, CONSTRUCT DUCT SYSTEMS TO THE FOLLOWING PRESSURE CLASSIFICATIONS WITH ALL SEAMS AND JOINTS TO BE SEALED: SUPPLY DUCTS: 2" W.G. POSITIVE; RETURN AND EXHAUST DUCTS: 2" W.G. NEGATIVE IN ACCORDANCE WITH THESE CONSTRUCTION AND SEALANT PRESSURE CLASSIFICATIONS, MAXIMUM DUCT AIR LEAKAGE WILL NOT EXCEED 3% AS REQUIRED FOR FINAL AIR BALANCE APPROVAL.
4. ROUND DUCTWORK SHALL BE LOCKSEAM CONSTRUCTION FOR ALL SIZES 8" DIAMETER AND LARGER. ROUND FITTINGS SHALL BE GALVANIZED STEEL WITH SPOT WELDED AND BONDED CONSTRUCTION. DUCTWORK SHALL BE AS MANUFACTURED BY UNITED MCGILL, SEMCO, OR APPROVED EQUAL.
5. ROUND SPIRAL AND OVAL DUCTWORK SHALL BE USED AS SHOWN AND SHALL BE DOUBLE WALL INSULATED WHERE EXPOSED.
6. AS A MINIMUM ON ALL RECTANGULAR, CROSS BREAK ALL FLAT SURFACES OR REINFORCE WITH A BEAD APPROXIMATELY 3/8" WIDE X 3/16" DEEP ON 12" CENTERS TO PREVENT VIBRATIONS, REGARDLESS OF DUCT GAUGE.
7. INSTALL SINGLE THICKNESS TURNING VANES IN ALL RIGHT ANGLE ELBOWS. LONG RADIUS ELBOWS MAY ALSO BE USED.
8. INSTALL RIGID ROUND AND RECTANGULAR METAL DUCT WITH SUPPORT SYSTEMS INDICATED IN SMACNA STANDARDS. SUPPORT HORIZONTAL DUCTS WITHIN 2 FEET OF EACH ELBOW AND WITHIN 4 FEET OF EACH BRANCH INTERSECTION USING DOUBLE STRAP HANGERS ON EACH SIDE OF FITTING. SUPPORT VERTICAL DUCTS AT A MAXIMUM INTERVAL OF 16 FEET AND AT EACH FLOOR. SUPPORT ALL DUCTED INDOOR VRF UNITS INDEPENDENT FROM THE DUCTWORK. NO WOOD SHALL BE USED TO SUPPORT OR BRACE DUCTS.
9. WHERE DUCTS PASS THROUGH ROOFS, WALLS, AND FLOORS, PROVIDE AS A MINIMUM 20 GAUGE STEEL ANGLE FRAME AT EACH SIDE OF OPENING. THE ANNULAR SPACE BETWEEN DUCT AND ANGLE FRAMES SHALL BE CAULKED AIR OR WEATHER TIGHT WITH SILICONE SEALANT.
10. ALL JOINTS AND SEAMS SHALL BE SEALED WITH LIQUID SEALANT. JOINTS ALSO SHALL BE RIVETED OR CONNECTED WITH SHEET METAL SCREWS. LIQUID SEALANTS BY UNITED MCGILL CORP., DOW CORNING.
11. SOFT ELASTOMER BUTYL GASKET WITH ADHESIVE BACKING SHALL BE USED TO SEAL FLANGED JOINTS.
12. DUCT TRANSITIONS SHALL NOT EXCEED 30 DEGREES SLOPE EXCEPT AS SPECIFICALLY NOTED OTHERWISE.
13. PROVIDE ACCESS TO ALL MOTORIZED DAMPERS, BALANCE DAMPERS, CONTROLS, AND OTHER ITEMS IN DUCTWORK THAT REQUIRE SERVICE OR INSPECTION. IF THE ACCESS PANEL LOCATION IS EXPOSED IT MUST BE APPROVED BY THE ARCHITECT AND BUILDING OWNER PRIOR TO INSTALLATION. LAY-IN SUPPLY AND RETURN AIR DIFFUSERS, GRILLES AND REGISTERS WITH PLASTER FRAMES MAY BE USED AS ACCESS LOCATIONS WHEN WITHIN 3'-0" OF DEVICE.
14. ALL DUCTWORK SHALL BE INSTALLED WITH INSIDE CLEAR DIMENSIONS AS NOTED ON DRAWINGS. WHERE DUCTWORK SIZE IS LARGER THAN CONNECTED DEVICE (IE. DIFFUSER, REGISTER) SMOOTH DUCT TRANSITIONS ARE TO TAKE PLACE JUST PRIOR TO DEVICE CONNECTION.
15. WHERE DUCTS PASS THROUGH FIRE RATED WALLS PROVIDE UL RATED FIRE DAMPERS.

E. FLEXIBLE AIR DUCT

1. FLEXIBLE AIR DUCT SHALL BE 1" INSULATED CLASS 1 AND RATED FOR THE OPERATING PRESSURE OF THE SYSTEM. DUCT CONSTRUCTION MATERIAL (ALUMINUM) MUST ADHERE TO LOCAL CODES.
2. FLEXIBLE AIR DUCT SHALL BE ATTACHED PER LOCAL CODES.

3. FLEXIBLE DUCT SHALL NOT EXTEND OVER 5'-0" IN LENGTH AT ANY ONE LOCATION AND IS ONLY PERMITTED ON THE SUPPLY AIR DEVICES WHERE CONCEALED ABOVE A CEILING.

F. SUPPLY AIR TAKE-OFF FITTINGS

1. FURNISH AND INSTALL CONICAL OR "BELL-MOUTH" TAKE-OFFS FROM MAIN DUCTWORK TO ROUND BRANCHES. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

G. DAMPERS

1. FURNISH AND INSTALL MANUAL LOCKING QUADRANT VOLUME CONTROL DAMPERS WITH HANDLE OPERATORS TO FACILITATE AIR BALANCING.
2. OPERATING HANDLES ON ALL DAMPERS SHALL BE TAGGED WITH A MINIMUM 12" LONG ORANGE MARKER TAPE. COLLARS MUST BE INSTALLED OVER EXTERNAL INSULATION TO ALLOW FREE MOVEMENT.

H. DUCTWORK INSULATION

1. FURNISH AND INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A.
2. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. ALL INTERIOR SUPPLY AIR RECTANGULAR DUCTWORK SHALL BE INSULATED WITH 1" THICK, 1-1/2 LB. DUCTWORK WRAP. ALL EXTERIOR SUPPLY AIR AND RETURN AIR RECTANGULAR DUCTWORK SHALL BE INSULATED WITH 2" THICK, 1-1/2 LB. DUCTWORK WRAP WITH WEATHER PROOF JACKETING. APPLY ADHESIVES AND MECHANICAL FASTENERS AS RECOMMENDED BY SMACNA OR THE MANUFACTURER RECOMMENDATIONS.
3. ALL INSULATION SHALL HAVE A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM C 411, OR AS REQUIRED BY LOCAL CODES.

K. LABELS / DUCT MARKERS / PIPE MARKERS

1. PROVIDE EQUIPMENT LABELS ON THE RTU, DOAS UNIT, AND VRF UNITS.
2. PROVIDE DUCT WALL IDENTIFICATION MARKERS ON ALL DUCTS INSTALLED UNDER THIS CONTRACT. MARKERS SHALL BE A MINIMUM OF 1-1/2" X 8" AND IDENTIFIED IN ACCORDANCE WITH THE BACKGROUND AND LETTER COLORS ISSUED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). MARKERS SHALL BE MANUFACTURED BY CHAMPION AMERICA INC., BRADY OR SETON.
3. PROVIDE PIPE IDENTIFICATION MARKERS ON ALL HYDRONIC PIPING INDICATING SERVICE AND DIRECTION OF FLOW.
4. ALL IDENTIFICATIONS MUST BE VISIBLE AT EQUIPMENT.

L. CURBS AND STEEL FRAMING FOR SUPPORT

1. THE GC SHALL BE RESPONSIBLE TO FURNISH AND INSTALL ALL NECESSARY STEEL FRAMING REQUIRED TO SUPPORT ALL HVAC EQUIPMENT. ALL ROOFTOP EQUIPMENT MUST BE INSTALLED SO THAT TOP OF CURBS ARE "DEAD" LEVEL. ALL PENETRATIONS OF STRUCTURE SHALL BE DONE IN ACCORDANCE WITH THE ARCHITECT'S GUIDELINES.

M. TESTING, ADJUSTING, AND BALANCING (BY THIRD PARTY TAB CONTRACTOR REQUIRED. HABC OR EQUAL BALANCING CONTRACTOR TO BE USED.)

1. TESTING, ADJUSTING AND BALANCING OF ALL WORK SHALL BE MADE BY AN INDEPENDENT CONTRACTOR WHO IS A CURRENTLY LICENSED NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) BALANCING CONTRACTOR, OR A ASBC LICENSED CONTRACTOR. NO OTHER BALANCE REPORTS WILL BE REVIEWED OR ACCEPTED. ALL BALANCING WORK MUST BE COMPLETE AND DONE IN ACCORDANCE WITH THE MOST RECENT STANDARDS OF THEIR SOCIETY AND AS A MINIMUM SHALL INCLUDE THE INFORMATION AS SHOWN IN THE AIR BALANCE REVIEW CHECKLIST. PAYMENT OF ALL COSTS FOR TESTING AND BALANCING SHALL BE INCLUDED IN BID.
2. FINAL TESTING, ADJUSTING AND BALANCING REPORT MUST BE COMPLETE AND TURNED OVER TO ARCHITECT, OWNER, AND THE G.C. PRIOR TO SUBSTANTIAL COMPLETION.
3. THE HVAC CONTRACTOR SHALL BE PRESENT FOR AIR BALANCE TO VERIFY ACCESSIBILITY TO ALL DEVICES, VERIFY ALL OPERATING SEQUENCES AND INSTALL NEW FILTERS IN ALL UNITS JUST PRIOR TO THE AIR BALANCE. THE COMPLETE AIR BALANCE SHALL TAKE PLACE WITH OUTSIDE AIR DAMPERS IN MINIMUM POSITION, EXCEPT AS NOTED OTHERWISE. HVAC CONTRACTOR SHALL ALSO INSTALL A NEW SET OF FILTERS ONE DAY PRIOR TO BUILDING TURN OVER.
4. COORDINATE THE TEMPERATURE CONTROL PANEL OPERATION(S) DURING THE BALANCE.
5. BALANCE AIR QUANTITIES TO WITHIN 45% OF THAT INDICATED ON THE DRAWINGS. ANY REQUIRED CHANGES IN SHEAVES, BELTS OR PULLEYS NEEDED TO ACHIEVE SPECIFIED FLOW RATES SHALL BE PERFORMED BY THE HVAC CONTRACTOR WITH NO ADDITIONAL COST.

N. START-UP

1. THIS CONTRACTOR SHALL INCLUDE START-UP AND OWNER TRAINING.

END OF SECTION 230010 - HVAC

MECHANICAL ABBREVIATIONS

SYMBOL	DESCRIPTION
EA	EXHAUST AIR
EF	EXHAUST FAN

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	EXHAUST AIR DEVICE / DUCT
	CONICAL TAP AND BALANCE DAMPER



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Memorial Park - Babe Ruth Concessions

City of Mount Vernon

108 Mount Vernon Ave. Ext. Mt. Vernon, OH 43056

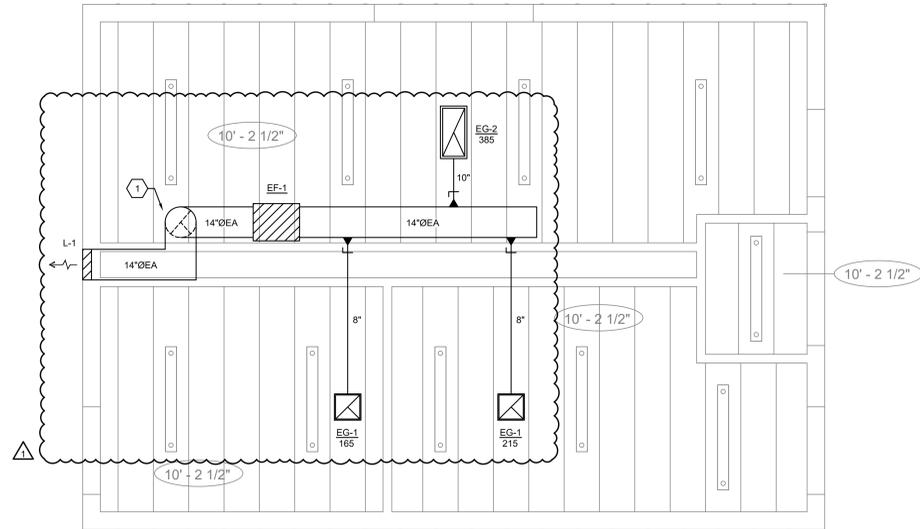
SUBMITTED: 08-22-2025

CORRECTION LETTER 10-03-25

M001

MECHANICAL SPECIFICATIONS

MKC PROJECT:



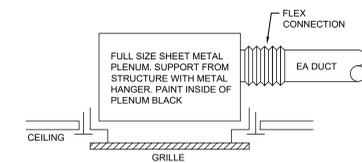
1 FLOOR MECHANICAL PLAN
SCALE: 3/8" = 1'-0"

CODED NOTES

- ROUTE EXHAUST DUCT UP INTO ATTIC AND TERMINATE WITH 14"x26" GABLE LOUVER. REFER TO ARCH PLANS FOR MORE INFORMATION. LEAVE OPPOSITE GABLE LOUVER OPEN FOR ATTIC VENTILATION. EXHAUST DUCTWORK IN ATTIC TO BE INSULATED WITH 1.5" INSULATION.

VENTILATION NOTES

- VENTILATION TO CONCESSION AREA PROVIDED VIA OPERABLE OPENINGS IN BUILDING ENVELOPE. OPENINGS ACCOUNT FOR 20% OF CONCESSION AREA (45 FT² OF 220 FT² CONCESSION AREA).



4 EXHAUST GRILLE DETAIL
SCALE: NTS

LOUVER SCHEDULE

LABEL	FUNCTION	MANUFACTURER	MODEL	W (IN)	H (IN)	FREE AREA (FT ²)	WEIGHT (LB)	NOTES
L-1	EXHAUST	RUSKIN	ELF375DX	14	26	1.05	9	1

1. INTEGRAL BIRD SCREEN, EXTENDED SILL, FINISH BY ARCHITECT.

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

LABEL	SERVICE	MANUFACTURER	NECK SIZE	FACE SIZE	MODEL	FRAME TYPE	MATERIAL	FINISH	NOTES
EG-1	EXHAUST	PRICE	10"x10"	12"x12"	630	SURFACE	ALUM.	WHITE	-
EG-2	EXHAUST	PRICE	22"x10"	24"x12"	630	SURFACE	ALUM.	WHITE	-

EXHAUST FAN SCHEDULE

LABEL	MANUFACTURER	MODEL	FUNCTION	INSTALL	CFM	SP (IN W.G.)	RPM	CONTROL TYPE	DRIVE TYPE	MOTOR HP	FEI	WEIGHT (LB)	V-PH-HZ	MCA	MOCF	NOTES
EF-1	GREENHECK	SQ-100-VG	EXHAUST	INLINE	765	0.35	1211	TIME CLOCK	ECM	1/4	-	61	115-1-60	4.0	15	1

1. PROVIDE WITH EC MOTOR, DISCONNECT SWITCH, NEOPRENE VIBRATION ISOLATORS AND BACKDRAFT DAMPER.



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Memorial Park - Babe Ruth Concessions

City of Mount Vernon

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SUBMITTED: 08-22-2025

CORRECTION LETTER 10-03-25

M100
MECHANICAL PLANS

MKC PROJECT:

ELECTRICAL SPECIFICATIONS

260000 - ELECTRICAL

A. GENERAL NOTES

- 1. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDE THEIR SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
2. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS TO COMPLY WITH THE SCHEDULE AND THE PROJECT COMPLETION DATE.
B. GENERAL REQUIREMENTS
1. CONTRACTOR SHALL PROVIDE ALL INSURANCE, LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS, AND DETAILS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL SYSTEM AS INTENDED ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH THE CONSTRUCTION MANAGER AS REQUIRED.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF CONTRACT.
3. WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT, INCLUDING NEC WORKING CLEARANCES.
5. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER INCORPORATING GOOD ENGINEERING PRACTICES.
6. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.

C. CODES

- 1. WORK SHALL CONFORM TO ALL STATE, COUNTY, CITY, AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, NEC, ENERGY CODES, AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED TO THE CONTRACTOR.

D. LICENSES, PERMITS, INSPECTIONS & FEES

- 1. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THEIR WORK.
2. FURNISH TO THE CONSTRUCTION MANAGER OR BUILDING OWNER ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

E. TRADE NAMES, MANUFACTURERS, AND SHOP DRAWINGS

- 1. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY THE ENGINEER PRIOR TO THE SHOP DRAWING SUBMITTAL PROCESS, FOR ACCEPTANCE. THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL SUBMIT SUBSTITUTION REQUESTS TO THE ENGINEER FOR APPROVAL. SUBMISSIONS SHALL BE MADE EARLY ENOUGH IN PROJECT TO ALLOW SEVEN (7) WORKING DAYS FOR THE ENGINEER'S REVIEW WITHOUT CAUSING DELAYS OR CONFLICTS TO THE JOB'S PROGRESS. SUBMITTALS SHALL BEAR THE STAMP OF THE CONTRACTOR AND THE SUB-CRACKTOR SHOWING THAT THEY HAVE REVIEWED AND CONFIRMED THAT THE SUBMITTALS ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR INDICATE WHERE EXCEPTIONS HAVE BEEN TAKEN.

F. GUARANTEE

- 1. THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORK PROVIDED UNDER THEIR CONTRACT AND SHALL MAKE GOOD, REPAIR, OR REPLACE AT THEIR OWN EXPENSE, ANY DEFECTIVE WORK, MATERIAL OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE (IN WRITING) OF THE INSTALLATION. EXTENDED WARRANTIES ARE AS SPECIFIED WITH INDIVIDUAL EQUIPMENT.

G. RECORD DRAWINGS

- 1. THIS CONTRACTOR SHALL MAINTAIN ONE COPY OF DRAWINGS ON THE JOB SITE TO RECORD DEVIATIONS FROM CONTRACT DRAWINGS.
2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THE CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON.

H. DISCREPANCIES IN DOCUMENTS

- 1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE ELECTRICAL SYSTEMS. WHERE DRAWINGS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, ADVISE THE CONSTRUCTION MANAGER IN WRITING, PRIOR TO SUBMITTAL OF BID. THE CONSTRUCTION MANAGER IS RESPONSIBLE TO ADVISE THE OWNER. IN WRITING, OF DISCREPANCIES IN THE CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF BID. OTHERWISE, THE ENGINEER'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.

GENERAL PRODUCTS

A. RACEWAYS

- 1. MINIMUM RACEWAY SIZE IS 3/4" UNLESS NOTED OTHERWISE.
2. CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METALLIC CONDUIT (IMC), OR GALVANIZED RIGID CONDUIT (GRC).
3. FLEXIBLE METAL CONDUIT MAY BE USED FOR FINAL CONNECTION TO LIGHT FIXTURES, FOR FINAL CONNECTION TO MOTORS, WHERE CONCEALED.
4. METAL CLAD CABLE (TYPE MC) MAY BE USED BETWEEN WIRING DEVICES WHERE ALLOWED BY CODE AND LOCAL AUTHORITY HAVING JURISDICTION AND INSTALLED PER NEC ARTICLE 334.
5. CONDUIT SUBJECT TO PHYSICAL DAMAGE SHALL BE GRC, UNLESS NOTED OTHERWISE.

- 6. UNDERGROUND OR IN-SLAB CONDUIT SHALL BE SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.

B. CONDUIT FITTINGS

- 1. IMC AND GRC: NON-SPLIT THREADED STEEL, ZINC DIE CAST IS NOT ACCEPTABLE.
2. EMT: COMPRESSION OR DOUBLE SET SCREW TYPE.
3. BUSHINGS SHALL BE METALLIC INSULATED TYPE.
4. FACTORY BENDS SHALL BE USED FOR ANY CONDUIT SIZE 2" OR LARGER. UNDERGROUND BENDS SHALL BE PVC COATED GRC.

C. OUTLET/JUNCTION /PULL BOXES

- 1. OUTLET BOXES SHALL BE PROVIDED AS SHOWN OR REQUIRED BY CODE.
2. OUTLET BOXES SHALL BE CODE GAUGE GALVANIZED STEEL, 4" SQUARE AND 2-1/8" DEEP WITH PLASTER RING.
3. PROVIDE RAISED COVERS AND FIXTURE STUDS FOR OUTLET BOXES WHERE REQUIRED.
4. PROVIDE BLANK COVERS FOR OUTLET BOXES WITHOUT DEVICES.
5. PROVIDE 6" SEPARATION BETWEEN BACK-TO-BACK OUTLET BOXES.
6. BOXES FOR OUTDOOR USE AND DAMP LOCATIONS SHALL BE WEATHERPROOF GASKETED CAST METAL TYPE.
7. ALL BOXES SHALL BE SIZED PER NEC REQUIREMENTS FOR NUMBER AND SIZE OF CONDUCTORS AND CONDUIT ENTRIES TO SUIT INTENDED APPLICATION.
8. COVERS SHALL BE FULLY ENCLOSED AND SECURED AT ALL CORNERS.

D. WIRE AND CABLE

- 1. CONDUCTORS #10 AWG AND SMALLER MAY BE SOLID OR STRANDED. CONDUCTORS LARGER THAN #10 AWG SHALL BE STRANDED.
2. ALL CONDUCTORS SHALL BE MINIMUM 75 DEGREES C COPPER UNLESS NOTED OTHERWISE.
3. POWER AND LIGHTING CONDUCTOR SIZE SHALL BE MINIM #12 AWG UNLESS NOTED OTHERWISE.
4. CONDUCTOR INSULATION TYPE SHALL BE THHN/THWN UNLESS NOTED OTHERWISE.
5. ALL TERMINATIONS AND DEVICES SHALL BE LISTED FOR 75 DEGREES C UNLESS OTHERWISE NOTED.
6. ALL WIRING SHALL BE IDENTIFIED WITH MARKERS TO REFLECT CIRCUIT DESIGNATIONS AT ALL POINTS WHERE WIRING IS ACCESSIBLE.
7. NO ALUMINUM CONDUCTORS.
8. THE FOLLOWING CONDUCTOR SIZES SHALL BE PROVIDED FOR 20A, 10 BRANCH CIRCUITS (HOT, NEUTRAL AND GROUND, BASED ON ACTUAL CIRCUIT LENGTH, UPSIZE RACEWAYS ACCORDINGLY).

Table with columns: CONDUCTOR SIZE, 120V, 208V, 277V, 480V. Rows include #12 AWG, #10 AWG, #8 AWG, #6 AWG and voltage/phase combinations like 208/120V, 3Ø, 4W.

E. DEVICES

WIRING DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE AS FOLLOWS:

- 1. WALL SWITCHES: 20A RATED, 120/277V, SINGLE POLE, SILENT TYPE.
2. DIMMER SWITCHES: PER LIGHTING CONTROLS SCHEDULE.
3. RECEPTACLES: 20A RATED, 125V DUPLEX GROUNDED TYPE.
4. GFI TYPE: 20A RATED GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE.
5. STANDARD RECEPTACLES SHALL BE WHITE W/ WHITE COVER PLATE.
6. MOUNTING HEIGHTS SHALL BE INDICATED ON THE DRAWINGS OR AS REQUIRED BY ADA OR AUTHORITY HAVING JURISDICTION.

F. CIRCUIT BREAKERS

- 1. CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AS THE PANELBOARD WITH THE RATING AND NUMBER OF POLES AS INDICATED OR SCHEDULED.
2. CIRCUIT BREAKERS SERVING HVAC TYPE EQUIPMENT SHALL BE HACR TYPE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
3. SERIES RATED CIRCUIT BREAKERS AND EQUIPMENT IS NOT ACCEPTABLE.

G. DISCONNECTS

- 1. DISCONNECTS: 600V AC HEAVY DUTY RATED, FUSED OR NON-FUSED AS INDICATED. SINGLE OR MULTI-POLE TO SUIT APPLICATION AND MOUNTED IN SUITABLE NEMA ENCLOSURE.

H. PANELBOARDS

- 1. ACCEPTABLE EQUIPMENT MANUFACTURERS SHALL BE GENERAL ELECTRIC, SIEMENS, SQUARE D, EATON OR ABB.
2. PANELBOARDS SHALL MEET THE SEISMIC QUALIFICATIONS OF THE ADOPTED BUILDING CODE.
3. GROUNDING CONNECTIONS SHALL BE MADE WITH APPROVED CONNECTORS AND METHODS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
4. ALL PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. WIRE TERMINATIONS SHALL BE UL LISTED FOR 75 DEGREES.
6. PANELBOARDS SHALL HAVE A SEPARATE GROUND BUS ISOLATED FROM THE NEUTRAL BUS.
7. ALL PANELBOARDS SHALL BE UL LISTED AND FULLY RATED FOR THE AIC RATING INDICATED ON THE DRAWINGS. SERIES RATED EQUIPMENT IS NOT ACCEPTABLE.

- 8. CONTRACTOR IS RESPONSIBLE TO CONFIRM SUBMITTED EQUIPMENT WILL FIT WITHIN ALLOTTED SPACE SHOWN AND COMPLY WITH ALL NEC CLEARANCE REQUIREMENTS.

- 9. ALL BUSSES SHALL BE COPPER.

I. LIGHTING FIXTURES

- 1. ALL LIGHTING FIXTURES SHALL BE UL LISTED AND SHALL BE PER THE LIGHT FIXTURE SCHEDULE. NO EQUALS ALLOWED UNLESS APPROVED IN WRITING BY ENGINEER.

J. SECURITY SYSTEMS

- 1. PROVIDE A COMPLETE RACEWAY SYSTEM FOR SECURITY CABLING.
2. EC TO PROVIDE BACK BOX AND CONDUIT PATHS FOR OWNER PROVIDED SECURITY DEVICES.

GENERAL EXECUTION

- A. THOROUGHLY CLEAN ALL ITEMS BEFORE INSTALLATION.
B. ALL WORK SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE IN AN APPROVED MANNER.
C. ALL EQUIPMENT SHALL BE FASTENED TO BUILDING CONSTRUCTION WITH APPROVED SUPPORTS.
D. COORDINATE ELECTRICAL WORK WITH OTHER TRADES PRIOR TO SUBMITTING BID.
E. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ELECTRICAL DEVICES, INCLUDING RECEPTACLES, SWITCHES, DATA AND TELEPHONE OUTLETS. IF LOCATIONS ARE NOT DEPICTED ON THE ARCHITECTURAL DRAWINGS, OBTAIN APPROVAL OF ARCHITECT PRIOR TO ROUGH-IN.
F. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND COMPLETE REPAIR OF EXISTING BUILDING WALLS, CEILINGS ETC AS REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS.
G. PROVIDE ENGRAVED NAME PLATES WITH SHEET METAL SCREWS FOR EACH PIECE OF EQUIPMENT INCLUDING: PANELBOARDS, DISCONNECTS, ETC. LABELED FOR AS-BUILT DRAWINGS.
H. ALL ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE OF THE SAME MANUFACTURER, INCLUDING PANELBOARDS, DISCONNECTS, ETC.
I. ALL MATERIAL INSTALLED IN PLENUM CEILINGS SHALL BE PLENUM RATED INCLUDING BUT NOT LIMITED TO: WIRING, DEVICES, LIGHT FIXTURES.

INSTALLATION

A. RACEWAYS

- 1. RACEWAYS SHALL BE INSTALLED CONCEALED, UNLESS NOTED OTHERWISE.
2. ALL RACEWAYS REQUIRED TO BE EXPOSED SHALL BE PAINTED TO MATCH THE ADJACENT BUILDING SURFACE.
3. SUPPORT RACEWAYS WITH TOGGLE BOLTS ON HOLLOW MASONRY, MACHINE SCREWS ON METAL SURFACES, BEAM CLAMPS ON FRAMEWORK, WOOD SCREWS ON WOOD.
4. RACEWAYS SHOULD BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING SURFACES AND AT RIGHT ANGLES.
5. PROVIDE 200LB PULL STRING IN ALL EMPTY RACEWAYS.
6. RACEWAYS PASSING THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED WITH UL LISTED FIRE RATED SEALANT. WHERE ELECTRICAL RACEWAYS ARE INSTALLED THROUGH RATED FLOORS OR WALLS, THE CONTRACTOR SHALL PROVIDE APPROPRIATE FITTINGS APPROVED BY ALL REQUIRED LOCAL AUTHORITIES FOR INTENDED APPLICATION.
7. OBTAIN FINAL APPROVAL FROM ARCHITECT PRIOR TO THE INSTALLATION OF RACEWAYS THROUGH RATED WALLS OR FLOORS.
8. HOME RUNS MAY BE COMBINED IN CONDUIT PER NEC REQUIREMENTS FOR DERATING AND FILL.
9. INSTALL ALL RACEWAY SYSTEMS PER THE NEC. DEVIATIONS FROM THE WIRING INDICATED SHALL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL PRIOR TO PLACING BID AND INSTALLATION.
10. INCLUDE ALL COSTS FOR RACEWAYS SYSTEMS AS SPECIFIED UNLESS WRITTEN APPROVAL FOR ALTERNATE WIRING METHOD IS OBTAINED FROM THE ARCHITECT, ENGINEER AND OWNER PRIOR TO SUBMITTING BID.
11. PROVIDE EQUIPMENT GROUNDING CONDUCTOR PER NEC 250 IN RACEWAYS.
12. ALL RACEWAYS AND CONDUCTORS SIZES SHOWN ARE TO BE INSTALLED WITHIN THE BUILDING STRUCTURE NOT EXPOSED TO AMBIENT CONDITIONS. IF RACEWAYS AND CONDUCTORS ARE ROUTED EXPOSED TO AMBIENT CONDITIONS, CONTRACTOR SHALL DERATE CONDUCTORS AND UPSIZE RACEWAYS ACCORDINGLY.
13. RACEWAYS PENETRATING THROUGH ROOF SHALL HAVE ROOF FLASHING WITH CAULK AND SLEEVE. INSTALLATION SHALL BE WATERTIGHT.
14. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER NEC ARTICLE 230.8.
15. ALL UNDERGROUND OR BELLOW GRADE RACEWAYS SHALL INSTALLED IN COMPLIANCE WITH NEC TABLE 300.5.
16. PROVIDE TRACEABLE WARNING TAPE ABOVE ALL BURIED CONDUIT.

B. FITTINGS AND ACCESSORIES

- 1. PROVIDE EXPANSION AND DEFLECTION FITTINGS FOR CONDUITS CROSSING EXPANSION JOINTS. PROVIDE BONDING JUMPERS FOR ALL EXPANSION FITTINGS.
2. FITTINGS SHALL BE SUITABLE FOR CONDITIONS OF INSTALLATION. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL.

C. OUTLET, JUNCTION AND PULL BOXES

- 1. OUTLET BOXES SHALL BE METALLIC WITH GROUND CONNECTION AND EQUIPMENT GROUNDING CONDUCTOR CONNECTION AND EQUIPMENT GROUNDING CONDUCTOR CONNECTION.
2. PROVIDE INSULATED SUPPORTS FOR CABLES.
3. PROVIDE SEPARATE BOXES FOR DIFFERENT VOLTAGE SYSTEMS.
4. COORDINATE FLOOR BOX LOCATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, FURNITURE CONSULTANT AND INTERIOR DESIGNER PRIOR TO ROUGH-IN. SEE THOSE DRAWINGS FOR ADDITIONAL INFORMATION.

D. WIRE AND CABLE

- 1. HOME RUNS MAY BE COMBINED IN CONDUIT, PER REQUIREMENTS OF NEC FOR DERATING AND FILL.
2. PROVIDE INSULATION TESTING DOCUMENTATION OF ALL FEEDER AND DISTRIBUTION WIRING. REMOVE AND REPLACE WIRING NOT MEETING MANUFACTURER'S RECOMMENDED INSULATION RESISTANCE.
3. PROVIDE TESTING DOCUMENTATION SHOWING GROUNDING SYSTEM FOR THIS PROJECT WITH RESISTANCE OF LESS THAN 5 OHMS.

E. DEVICES

- 1. INSTALL SWITCHES @48" AFF TO CENTER OF SWITCH, UNLESS NOTED OTHERWISE.

- 2. INSTALL RECEPTACLES @18" AFF TO CENTER OF DEVICE, UNLESS NOTED OTHERWISE.

- 3. RECEPTACLES LOCATED FOR COUNTERTOP USE SHALL BE 6" TO THE CENTER OF DEVICE ABOVE THE COUNTERTOP.

- 4. PROVIDE LABELS ON RECEPTACLE COVERS INDICATING CIRCUIT. LABELS TO BE BLACK TEXT ON CLEAR BACKGROUND.

F. CIRCUIT BREAKERS

- 1. WHERE NEW OVERCURRENT DEVICES ARE ADDED TO EXISTING SWITCHBOARD, DISTRIBUTION PANELS AND PANELBOARDS, UTILIZE SPARES AND/OR PROVIDE ADDITIONAL BREAKERS OR SWITCHES AS REQUIRED TO EXISTING SPACES OR PROVIDE A NEW PANELBOARD OR SECTION SUBFERD FROM THE EXISTING SYSTEM. SHORT CIRCUIT INTERRUPTING RATING OF NEW OVERCURRENT DEVICES SHALL MATCH THE RATING OF THE EXISTING EQUIPMENT.

G. DISCONNECTS

- 1. INSTALL DISCONNECTS AS REQUIRED PER THE NEC.
2. WALL MOUNTED DISCONNECTS SHALL BE INSTALLED @54" TO BOTTOM OF DEVICE, UNLESS NOTED OTHERWISE.

H. PANELBOARDS

- 1. CONTRACTOR SHALL BALANCE THE LOADS IN ALL PANELBOARDS TO LESS THAN 10% IMBALANCE BETWEEN THE PHASES.
2. PROVIDE TYPEWRITTEN PANELBOARD SCHEDULES IN PANELBOARD DOORS DEPICTING THE FINAL AS-BUILT CONDITIONS AT PROJECT COMPLETION.
3. ALL ELECTRICAL SYSTEMS, EQUIPMENT AND COMPONENTS SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 250.
4. ALL PANELBOARDS SHALL BE INSTALLED TO MEET THE NEC 110-26 CLEARANCE REQUIREMENTS.
5. ALL UTILITY METERING DEVICES SHALL BE INSTALLED PER THE SERVING UTILITY COMPANY'S REQUIREMENTS.
6. ANY CUSTOMER OWNED METERING DEVICES SHALL BE INSTALLED AS INDICATED ON DRAWINGS.
7. PROVIDE ALL REQUIRED DEVICES AND EQUIPMENT FOR A COMPLETE AND OPERABLE METER INSTALLATION.

I. LIGHTING FIXTURES

- 1. PROVIDE ALL NECESSARY SUPPORTS FOR LIGHTING FIXTURES REQUIRED.
2. ALL FIXTURES EQUALING OR EXCEEDING 4 LBS SHALL BE DIRECTLY SUPPORTED TO THE BUILDING STRUCTURE PER CMR 410.38.
3. WHERE FIXTURES ARE INSTALLED ON OR IN SUSPENDED CEILING SYSTEMS, SECURE FIXTURES TO CEILING FRAME SYSTEM AND PROVIDE FIXTURE SUPPORTS INDEPENDENT OF CEILING SUSPENSION SYSTEM AS REQUIRED PER APPLICABLE CODE.
4. INCLUDE IN BASE BID ALL LABOR AND MATERIAL TO INSTALL FIXTURES, INCLUDING THOSE PROVIDED BY THE OWNER.
5. PROVIDE CEILING MOUNTED PENDANT FIXTURE WITH APPROVED SUPPORT FOR WEIGHT TO BE SUPPORTED AND FOR SEISMIC COMPLIANCE.
6. RECESSED FIXTURES IN FIRE RATED CEILINGS AND RETURN OR PLENUMS SHALL BE APPROVED FOR THE FIRE RATING OF THE CEILING OR SHALL BE FULLY ENCLOSED IN A FIRE RATED HOUSING ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
7. SEAL ALL OPENINGS AS REQUIRED TO ELIMINATE AIR LEAKS.
8. VERIFY TYPE OF MOUNTING REQUIRED FOR ALL LIGHTING FIXTURES AND PROVIDE ALL MOUNTING HARDWARE REQUIRED FOR A COMPLETE INSTALLATION.
9. ALL ADJUSTABLE FIXTURES SHALL BE LOCATED AND PROPERLY AIMED AS DIRECTED BY THE ARCHITECT OR LIGHTING DESIGNER. ALL AIMING OF BUILDING FACADE LIGHTING SHALL BE PERFORMED BY CONTRACTOR AT NIGHT.
10. WIRE ALL FIXTURES DESIGNATED AS NIGHT LIGHTS TO OPERATE 24/7.
11. WIRE ALL EXIT SIGNS ON LOCAL LIGHTING CIRCUIT AHEAD OF CONTROLS.

ELECTRICAL ABBREVIATIONS

Table with columns: SYMBOL, DESCRIPTION. Includes A (AMP), AC (ABOVE COUNTER), C (CONDUIT), CU (COPPER), GFI (GROUND FAULT INTERRUPTER), G, GRD (GROUND), LV (LOW VOLTAGE), MCB (MAIN CIRCUIT BREAKER), NEC (NATIONAL ELECTRICAL CODE), VA (VOLT AMPS).

ELECTRICAL SYMBOLS

Table with columns: SYMBOL, DESCRIPTION. Includes symbols for DUPLEX RECEPTACLE, DOUBLE DUPLEX RECEPTACLE, DISCONNECT SWITCH, SURFACE ELECTRIC PANEL, LINEAR OR STRIP LIGHT FIXTURE, EMERGENCY LIGHT FIXTURE DESIGNATION, EXIT SIGN, SECURITY CAMERA, CIRCUITING DESIGNATIONS, DISCONNECT LABELING, AMPERAGE & POLES, ENCLOSURE TYPE.



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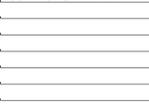


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City of Mount Vernon
108 Mount Vernon Ave. Ext. Mt. Vernon, OH
43056

SUBMITTED: 08-22-2025

CORRECTED LETTER 10-03-25



E001
ELECTRICAL SPECIFICATIONS
MKC PROJECT:



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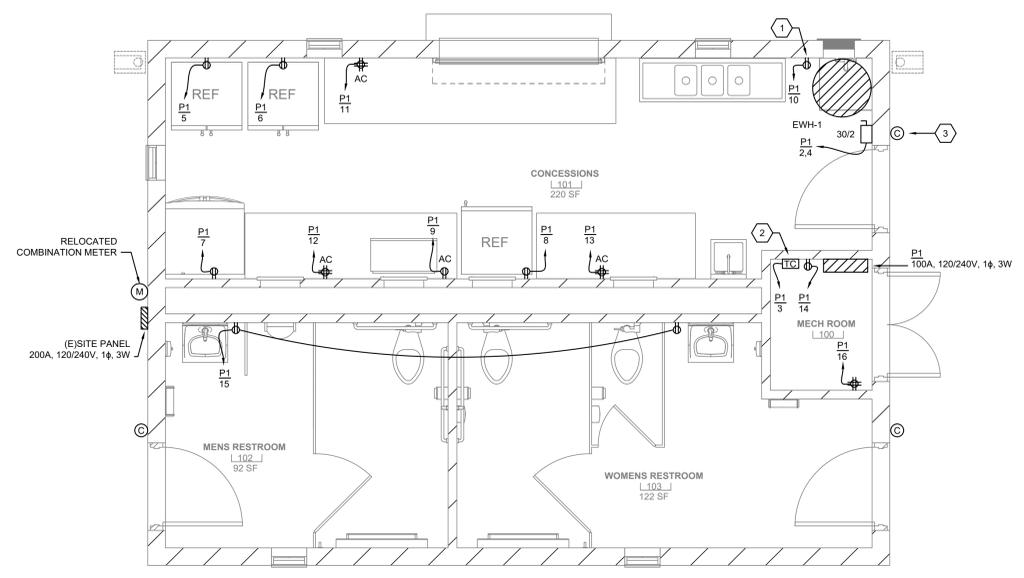
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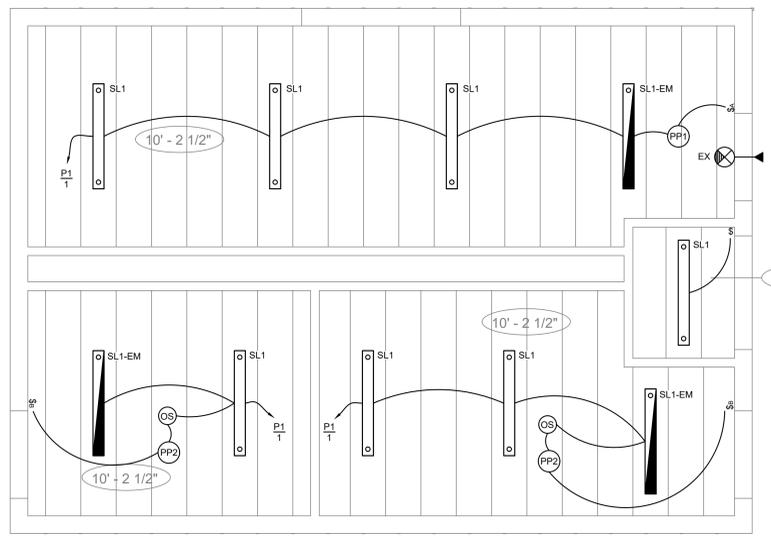
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E100
ELECTRICAL PLANS

MKC PROJECT:



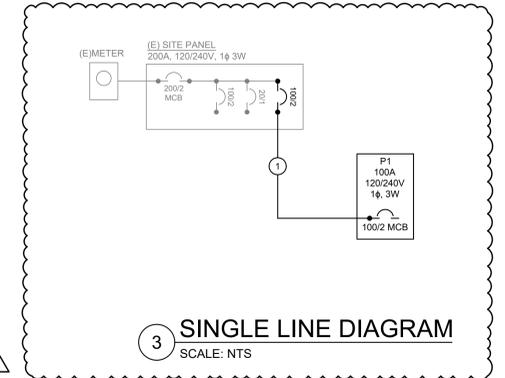
1 FLOOR POWER PLAN
SCALE: 3/8" = 1'-0"



2 LIGHTING PLAN
SCALE: 3/8" = 1'-0"

- CODED NOTES**
1. PROVIDE RECEPTACLE IN INTERIOR OF CONCESSION FOR BOTTLE FILLER TRANSFORMER.
 2. PROVIDE MECHANICAL TIMELOCK FOR NEW EXHAUST FAN. COORDINATE SCHEDULE WITH OWNER. FAN TO RUN DURING OPERATING HOURS. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.
 3. PROVIDE PATHWAY(S) WITH PULL STING AND BOXES FROM SECURITY RACK TO NEW OWNER PROVIDED CAMERAS (TYP. 3). COMMUNICATION AND POWER MUST BE ROUTED IN SEPARATE CONDUIT. COORDINATE CAMERA LOCATIONS AND QUANTITIES WITH OWNER PRIOR TO ROUGH-IN.
 4. COMBINATION METER AND TEMPORARY POWER HOOK UP NEW INSTALL LOCATION. REFER TO SITE ELECTRICAL PLAN FOR MORE INFORMATION.

- GENERAL NOTES**
1. ALL NEW RECEPTACLES TO BE GFI PROTECTED.
 2. INSTALL ALL METERS, TIMELOCKS, DISCONNECTS AND PANELBOARDS SO THAT BOTTOM OF DEVICE IS 4.5' ABOVE FINISHED FLOOR ELEVATION.



3 SINGLE LINE DIAGRAM
SCALE: NTS

FEEDER SCHEDULE

CIRCUIT #	OCF AMPS	PHASE CONDUCTORS	NEUTRAL CONDUCTOR	EGC	CONDUIT
1	100	2-#3	1-#3	#6	1.25"

NOTES:
1. BASED ON THWN/THHN COPPER CONDUCTORS.
2. CONDUCTOR SIZE BASED ON 75°C TERMINAL RATING.
3. MINIMUM CONDUIT SIZE SHOWN.

LIGHTING CONTROLS SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTS	NOTES
\$s	WALL DIMMING SWITCH	ACUTY	sPODMA D WH	LV	1
\$b	WALL SWITCH	ACUTY	sPODMA WH	LV	-
OS	CEILING OCC. SENSOR	ACUTY	CM PDT 10	LV	-
PP1	DIMMING POWER PACK	ACUTY	hPP16 D EFO	120/277	1
PP2	POWER PACK	ACUTY	PP20	120/277	-

NOTES:
1. 0-10V DIMMING

LIGHT FIXTURE SCHEDULE

FIXTURE TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LIGHT SOURCE	LUMENS	CRI	COLOR TEMP	WATTS	VOLTS	NOTES
SL1	48" LINEAR	LITHONIA	CSS L48 AL03 MVOLT SSW3 80CRI	LED	3000	80	3500K	27	120/277	1
SL1-EM	48" EM. LINEAR	LITHONIA	CSS L48 AL03 MVOLT SSW3 80CRI IE7WCP	LED	3000	80	3500K	27	120/277	1,2
EX	EXIT SIGN	MULE LIGHTING	CEMXTX-USA R W SDT	LED	-	-	-	-	120/277	2,3

NOTES:
1. 0-10V DIMMING
2. PROVIDE WITH EMERGENCY BATTERY PACK
3. PROVIDE WITH R-ASRLED-1-WP-W OUTDOOR-RATED REMOTE HEAD

BRANCH PANEL: SITE PANEL (EXISTING)

LOCATION: SITE VOLTS: 120/240V AIC RATING: --- LEGEND: * = GFCI BREAKER NOTES: -
FED FROM: SERVICE PHASES: 1 MAINS TYPE: --- ** = LOCK-ON BREAKER
MOUNTING: SURFACE WIRES: 3 MAINS RATING: 200A
ENCLOSURE: TYPE 1 MCB RATING: 200A

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A	B	POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT
1	TEMP POWER		100 A	2	6000	900		1	20 A	SCOREBOARD	2
3						6000					4
5	PANEL "P1"	#3	100 A	2	5160	-		1			6
7						5240		1			8
					PHASE LOAD:	11680 VA	11240 VA				
					PHASE AMPS:	97.2 A	93.7 A				
					TOTAL LOAD:	22900 VA					
					TOTAL AMPS:	95.4 A					

BRANCH PANEL: P1

LOCATION: CONCESSION VOLTS: 120/240V AIC RATING: 10K LEGEND: * = GFCI BREAKER NOTES: -
FED FROM: SITE PANEL PHASES: 1 MAINS TYPE: AL ** = LOCK-ON BREAKER
MOUNTING: SURFACE WIRES: 3 MAINS RATING: 100A
ENCLOSURE: TYPE 1 MCB RATING: 100A

CKT	CIRCUIT DESCRIPTION	WIRE	TRIP	POLES	A	B	POLES	TRIP	WIRE	CIRCUIT DESCRIPTION	CKT
1	LIGHTING	#12	20 A	1	270	2250					2
3	EXHAUST FAN (EF-1) & TIMELOCK	#12	20 A	1	500	500	2	30 A	#10	WATER HEATER (EWH-1)	2
5	REFRIGERATOR	#12	20 A	1	500	500	1	20 A	#12	REFRIGERATOR	6
7	REFRIGERATOR	#12	20 A	1	500	500	1	20 A	#12	REFRIGERATOR	8
9	MICROWAVE	#12	20 A	1	1000	100	1	20 A	#12	BOTTLE FILLER RECEPTACLE	10
11	POINT OF SALE QUAD	#12	20 A	1	360	360	1	20 A	#12	CONVENIENCE QUAD	12
13	CONVENIENCE QUAD	#12	20 A	1	360	180	1	20 A	#12	PANEL SERVICE RECEPTACLE	14
15	RESTROOM RECEPTACLES	#12	20 A	1	360	360	1	20 A	#12	SECURITY QUAD	16
17	SPARE		20 A	1	-	-	1	20 A		SPARE	18
19	SPARE		20 A	1	-	-	1	20 A		SPARE	20
21	SPARE		20 A	1	-	-	1	20 A		SPARE	22
23											24
25											26
27											28
29											30
					PHASE LOAD:	5180 VA	5240 VA				
					PHASE AMPS:	43.0 A	43.7 A				
					TOTAL LOAD:	10400 VA					
					TOTAL AMPS:	43.3 A					

CODED NOTES

1. EXISTING COMBINATION METER / DISCONNECT AND VENDOR POWER HOOK UP MOUNTED ON UNISTRUT RACK. REMOVE FROM RACKING AND REINSTALL ON CONCESSION BUILDING EXTERIOR WALL. EXTEND CONDUIT BELOW GRADE FROM SOURCE TO NEW LOCATION AND PROVIDE QUAZITE PULL BOX. MATCH EXISTING CONDUCTOR SIZE. COORDINATE NEW LOCATION WITH OWNER PRIOR TO ANY NEW WORK.

QUAZITE BOX SPEC

1. QUAZITE BOX TO BE 23.25" x 13.75". OPEN BOTTOM FOR DRAINAGE, GASKETED LID WITH "POWER" LOGO, EXTRA HEAVY DUTY LOAD RATED (2250 LBS). TURN CONDUIT UP IN BOX AS TO NOT FILL WITH WATER AND FOAM FILL CONDUITS.

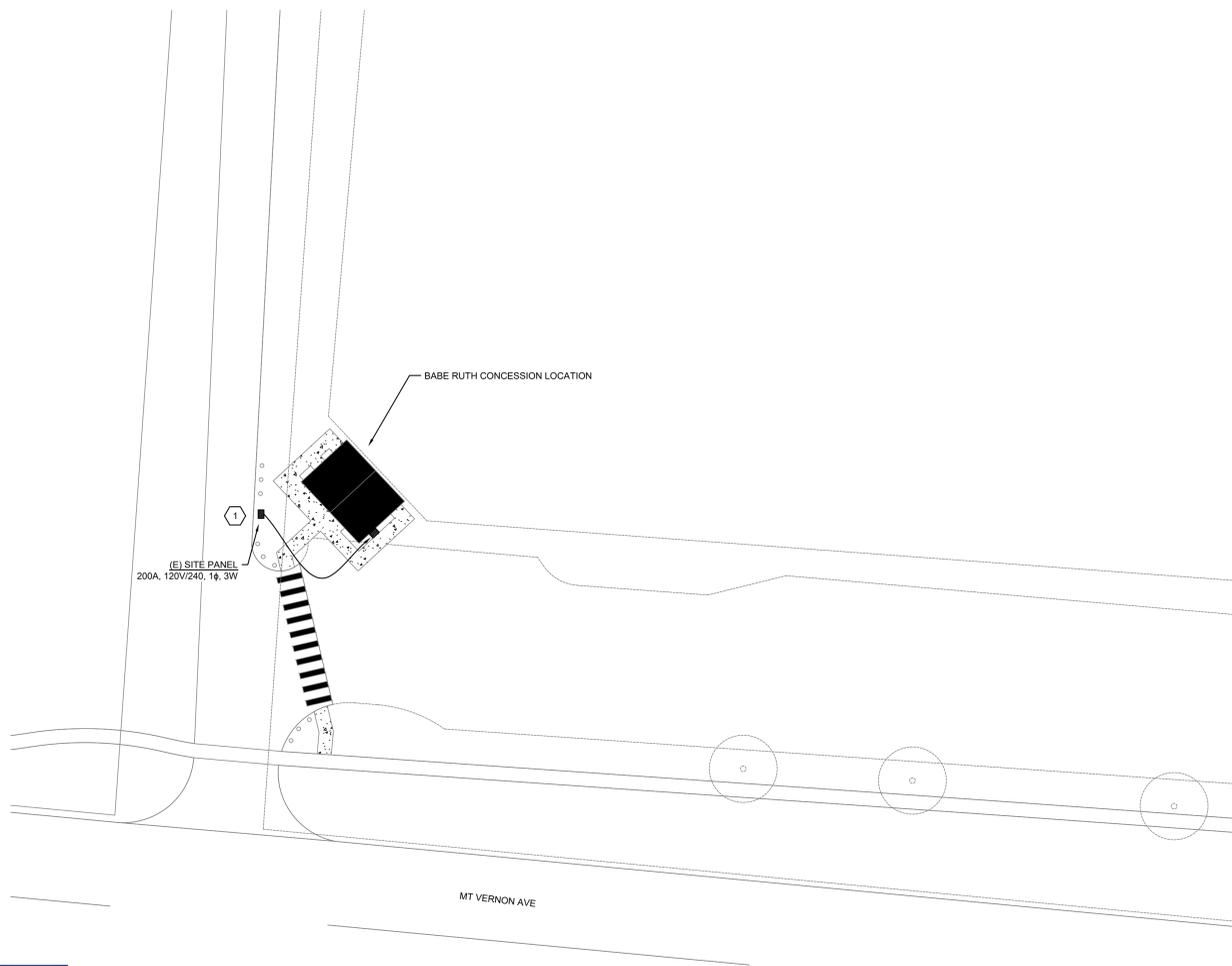
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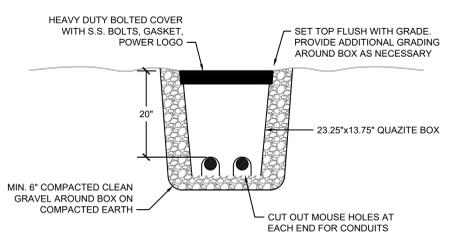
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1 ELECTRICAL SITE PLAN
SCALE: 1" = 25'



2 METER / DISCONNECT & TEMP POWER EXISTING CONDITION
SCALE: NTS



3 PULL BOX DETAIL
SCALE: NTS
-PRIOR TO ORDERING BOX, VERIFY DEPTH OF CONDUITS WILL MEET SPECIFIED DEPTH
-MULCH AND SEED GRASS AROUND BOX WHERE SOIL IS DISTURBED

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E101
ELECTRICAL SITE PLAN