



AIA[®] Document G714[™] – 2017

Construction Change Directive

PROJECT: *(name and address)*
Highland Township Fire Station 1 - PIA
18-122A

CONTRACT INFORMATION:
Contract For: General Construction

Date: February 18, 2020

CCD INFORMATION:
Directive Number: 004

Date: September 1, 2020

OWNER: *(name and address)*
Highland Township
250 W. Livingston Road
Highland, MI 48357

ARCHITECT: *(name and address)*
PARTNERS in Architecture, PLC
65 Market Street
Mount Clemens, MI 48043

CONTRACTOR: *(name and address)*
Axiom Construction Services Group, LLC
10638 Rushton Road
South Lyon, MI 48178

The Contractor is hereby directed to make the following change(s) in this Contract:
(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits.)

Exhibit A: Write Up

Exhibit B: Revised Specifications

Exhibit C: Revised Architectural Drawing Set

Exhibit D: Revised Electrical Drawing Set

Refer to attached Exhibits A, B, C, and D

PROPOSED ADJUSTMENTS

1. The proposed basis of adjustment to the Contract Sum or Guaranteed Maximum Price is:
 - ☐ Lump Sum decrease of \$0.00
 - ☐ Unit Price of \$ per
 - ☐ Cost, as defined below, plus the following fee:
(Insert a definition of, or method for determining, cost)
 - ☒ As follows: These changes will result in an increase to the contract. The final amount is to be determined. An adjustment will be made to the contract amount, afterwards, via Change Order.
2. The Contract Time is proposed to remain unchanged. The proposed adjustment, if any, is (0 days).

NOTE: *The Owner, Architect and Contractor should execute a Change Order to supersede this Construction Change Directive to the extent they agree upon adjustments to the Contract Sum, Contract Time, or Guaranteed Maximum price for the change(s) described herein.*

ARCHITECTURAL & ELETRICAL – CCD 4

Project Name: Highland Township – Highland Township Fire Station No. 1 **CCD No: Four (4)**

Project Number: 18-122A
Project Location: 1600 W. Highland Rd. Highland, MI 48357
Issue Date: September 1, 2020

This Addendum forms a part of the above described Architectural & Structure Bidding/Permit documents and supersedes, supplements or clarifies parts thereof to the extent defined by the terms set forth in this Addendum.

This Addendum consists of (2) typed page(s) and the following attachments :

Specifications: 102800 Toilet Accessories

Drawings: Life Safety Code Information (A0-02), Door Schedule & Frame Types (A0-04), Opening Details (A0-13), Main Level Floor Plan (A3-01), Masonry Dimension Plan (A3-02), Enlarged Floor Plans (A3-10), Reflected Ceiling Plans (A4-01), Interior Elevations (A8-01), Wire and Lighting Fixture Schedules and Control Matrix (E0-03), Floor Plans – Lighting (E2-00), Floor Plans – Power (E3-00).

EXHIBIT B - SPECIFICATIONS:

ITEM SP1 SPECIFICATION SECTION 102800 – TOILET ACCESSORIES
A. Added notes for iron, found capped iron rod, and found nail.

EXHIBIT C - ARCHITECTURAL DRAWINGS:

ITEM A1 A0-02 LIFE SAFETY CODE INFORMATION
A. Revise fire wall locations.
B. Change to type V-B construction
C. Remove UL design details no longer relevant
D. Add UL design detail #W433
E. Remove 1-hr fire barrier wall from plan legend

ITEM A2 A0-04 DOOR SCHEDULE & FRAME TYPES
A. Revise fire rating for doors 113, 117, 119, 120A, 121, 122, 123, 125, 126, and 127.
B. Add dimension to frame F3.
C. Remove LG fire rated glass at door types N and G.
D. Revise size of SF-3.
E. SF-3 changed to HM frame.

ITEM A3 A0-13 OPENING DETAILS
A. Added note on detail D17

ITEM A4 A3-01 MAIN LEVEL FLOOR PLAN
A. Remove far east interior bollards next to door 131K and PPE Laundry (135).
B. Revise north wall of EMS (202) to be B6 wall type. Hold existing interior dimension of EMS (202).

- ITEM A5** A3-02 MASONRY DIMENSION PLAN
A. Revise keynote 2.
B. Add keynote 7.
C. Adjust PPE Storage dimensions based on CCD-03.
D. Adjust position of 6" CMU starter course wall.
- ITEM A6** A3-10 ENLARGED FLOOR PLANS
E. Revise Toilet Accessory notes TA-5, TA-6, and TA-8 – Refer to Specification.
F. Add TA-1 in Decon / Rest. (133)
- ITEM A7** A4-01 REFLECTED CEILING PLANS
A. Added keynote 28.
B. Added emergency lights per revised Electrical lighting plan – refer to Electrical
- ITEM A8** A8-01 INTERIOR ELEVATIONS
A. Locate position of wall mounted light fixtures on detail 1 – Refer to Electrical
B. Add notes to detail 1.

EXHIBIT D - ELETRICAL DRAWINGS:

- ITEM E1** E0-03 WIRE AND LIGHTING FIXTURE SCHEDULES AND CONTROL MATRIX
A. Revise light fixtures "I" and "M".
B. Specify basis of design for track light fixture "M".
C. Add light fixture "OE" and "X2".
- ITEM E2** E2-00 FLOOR PLANS - LIGHTING
A. Revise locations of light fixture "F" and "FE" at mezzanine stairs – Refer to Architectural.
B. Add interior and exterior emergency light fixtures "X2" and "OE" at Vestibule (101).
- ITEM E3** E3-00 FLOOR PLANS - POWER
A. Revise panel RP-1C and RP-2A to be recessed in the wall.
B. Remove handicap push button access.
C. Adjust card reader locations based on Architectural floor plan.

****END OF CCD****

SECTION 102800 - TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:

1. Washroom accessories.
2. Underlavatory guards.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Product Schedule:
1. Identify locations using room designations indicated on Drawings.
 2. Identify products using designations indicated on Drawings.

PART 2 - PRODUCTS

2.1 WASHROOM ACCESSORIES

- A. Basis-of-Design Product: The design for accessories is based on products indicated. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:
1. A & J Washroom Accessories, Inc.
 2. American Specialties, Inc.
 3. Bobrick Washroom Equipment, Inc.
 4. Bradley Corporation.
 5. General Accessory Manufacturing Co. (GAMCO).
- B. Grab Bar: TA-1, TA-2, TA-3.
1. Basis-of-Design Product: Bobrick B-5806.
 2. Mounting: Flanges with concealed fasteners.
 3. Material: Stainless steel, 0.05 inch thick.
 - a. Finish: Smooth, No. 4, satin finish.
 4. Outside Diameter: 1-1/4 inches.
 5. Configuration and Length: As indicated on Drawings.

PARTNERS 18-122
TOILET AND BATH ACCESSORIES
102800 - 2

C. Mirror Unit: TA-4

1. Basis-of-Design Product: Bradley 781.
2. Frame: Stainless-steel angle.
 - a. Corners: Mitered and mechanically interlocked.
3. Hangers: Produce rigid, tamper- and theft-resistant installation, using method indicated below.

Wall bracket of galvanized steel, equipped with concealed locking devices requiring a special tool to remove.
4. Size: As indicated on drawings. If not indicated, provide 24"W x 48"H

D. Toilet Tissue Dispenser: TA-5

1. By Owner

E. Soap Dispenser: TA-6

1. By Owner

F. Shower Curtain, Rod, & Hooks: TA-7

1. Basis-of-Design product(s): Bobrick B-204-1, B-204-2, B-207x36
2. Mounting: Concealed
3. Material: Stainless steel.
4. Length: 36 inches
5. Location: 1 per shower

G. Paper Towel Dispenser: TA-8

1. By Owner

H. Electric Hand Dryer: (TA-9)

1. Basis-of-Design product: World Dryer Air Max XM5-974
2. Mounting: Wall.
3. Material: Cast Iron White

I. Towel Hook: (TA-10)

1. Basis-of-Design product: Bobrick B-2116
2. Mounting: Wall.
3. Material: Stainless steel.

J. Waste Receptacle: (TA-12)

1. Basis-of-Design product: Bobrick B-2300
2. Mounting: Floor-Standing
3. Material: Stainless steel.

2.2 UNDERLAVATORY GUARDS: TA-11

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Plumberex Specialty Products, Inc.
 - 2. TCI Products.
 - 3. Truebro, Inc.
- B. Underlavatory Guard:
 - 1. Description: Provide insulating pipe covering for supply and drain piping assemblies. The install lavatory protective enclosure that prevent direct contact with and burns from piping. Provide 'Lav Shield' as provided by Truebro (IPS Corporation) model #2018 or approved equal with tamper resistant screws. Provide factory cut models where available (coordinate with mechanical).
 - 2. Material and Finish: Impact-resistant, stain-resistant and chemical resistant rigid vinyl with China white finish.
- C. Provide at all wall mounted lavatories and as noted on drawings.

2.3 FABRICATION

- A. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

END OF SECTION 102800

BUILDING CODE INFORMATION

OWNER: HIGHLAND TOWNSHIP FIRE DEPARTMENT
PROJECT: HIGHLAND TOWNSHIP FIRE STATION NO. 1
ADDRESS: 1600 WEST HIGHLAND RD. HIGHLAND, MI 48357
GOVERNING CODES:
2015 MICHIGAN BUILDING CODE (MBC)
2012 LIFE SAFETY CODE (LSC) WITH AMENDMENTS
2015 MICHIGAN MECHANICAL CODE
2015 MICHIGAN PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE

MICHIGAN BUILDING CODE SUMMARY:
CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION

NON-SEPARATED MIXED USE OCCUPANCY:

[303.4]	ASSEMBLY GROUP A-3
[304.1]	BUSINESS GROUP B
[310.3]	RESIDENTIAL GROUP R-3
[311.2]	LOW HAZARD STORAGE GROUP S-2

CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

DRYING ROOMS (SECTION 417):

[417.1]	A DRYING ROOM OR DRY KILN INSTALLED WITHIN A BUILDING SHALL BE CONSTRUCTED ENTIRELY OF APPROVED NON-COMBUSTIBLE MATERIALS OR ASSEMBLIES
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GROUP R-3 (SECTION 420):

[420.2]	WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708. OCCUPANCIES SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.8.
[420.6]	FIRE ALARM SYSTEMS AND SMOKE ALARMS SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF CHAPTER 9.

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

[505.2.1]	MEZZANINE AREA LIMITATION: THE AREA OF MEZZANINES SHALL NOT BE GREATER THAN 1/3 OF THE AREA OF THE ROOM IN WHICH THEY ARE LOCATED.
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1,123 SF / 5,920 SF = .19 < .33 MAX

[508.3.2]	NON-SEPARATED USES, MOST RESTRICTIVE PROVISIONS APPLY PER SECTION 504 & SECTION 506.
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[TABLE 509]	INCIDENTAL USES: NO USES LISTED IN TABLE 509 APPLY.
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ALLOWABLE BUILDING HEIGHT AND AREA

[TABLE 504.3]	ALLOWABLE BUILDING HEIGHT: 75'-0" (ACTUAL: 42'-7")
[TABLE 504.4]	ALLOWABLE STORIES: 3 (ACTUAL: 1)

[506.2]	ALLOWABLE AREA: 38,000 (A-3), 92,000 (B), UNLIMITED (R-3), 104,000 (S-2) 1 STORY, EQUIPPED WITH AUTO. SPRINKLER SYSTEM
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TOTAL PROPOSED BUILDING AREA: 15,811 S.F. GROSS (INCLUDING MEZZANINE)

USING THE MOST RESTRICTIVE REQUIREMENTS IN ALL CASES

CHAPTER 6 - TYPES OF CONSTRUCTION

[602.5]	TYPE V-B
[TABLE 601]	FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS) CONSTRUCTION TYPE IS IIB - NO BUILDING ELEMENTS REQUIRE FIRE RESISTANCE RATED CONSTRUCTION

CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES

[705.1]	OPEN FRONTAGE ON ALL SIDES OF BUILDING - FIRE RATED EXTERIOR WALLS NOT REQUIRED
[706.1]	FIRE WALLS: NOT REQUIRED
[707.1]	FIRE BARRIERS: A ONE HOUR FIRE BARRIER HAS BEEN PROVIDED BETWEEN OCCUPANCY GROUP B AND OCCUPANCY GROUP S-2 PER TABLE [707.3.10].
[708.1]	FIRE PARTITIONS: REQUIRED AND PROVIDED PER SECTION 708.3 EXCEPTION #2: SLEEPING UNITS IN TYPE I-B CONSTRUCTION SHALL BE SEPARATED BY FIRE RESISTANCE RATINGS OF AT LEAST 1/2 HOUR WHERE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.
[709.1]	SMOKE BARRIERS: NOT REQUIRED
[710.1]	SMOKE PARTITIONS: NOT REQUIRED

CHAPTER 8: INTERIOR FINISHES

[TABLE 803.11]	INTERIOR WALL/CEILING FINISHES (SPRINKLERED BUILDING) - INTERIOR EXIT STAIRWAYS, RAMPS, AND PASSAGEWAYS: CLASS B - EXIT ACCESS STAIRWAYS, RAMPS, AND PASSAGEWAYS: CLASS C - ROOMS AND ENCLOSED SPACES: CLASS C
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CHAPTER 9: FIRE PROTECTION SYSTEMS

[903.2.8]	AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT THE BUILDING IN ACCORDANCE WITH SECTION 903.3 (NFPA 13)
[903.3.1.1.1]	EXCEPTION #4: AN AUTOMATIC SPRINKLER SYSTEM SHALL NOT BE REQUIRED IN UNOCCUPIED ROOMS OR AREAS THAT ARE OF NON-COMBUSTIBLE CONSTRUCTION WITH WHOLLY NON-COMBUSTIBLE CONTENTS. (ATTIC)
[906]	PORTABLE FIRE EXTINGUISHERS LOCATIONS: WITHIN 30'-0" OF COMMERCIAL COOKING EQUIPMENT, SPECIAL HAZARD AREAS (APPARATUS BAY), WHERE REQUIRED BY THE INTERNATIONAL FIRE CODE, MAXIMUM TRAVEL DISTANCE - 75'-0"
[907.2.0.2]	AUTOMATIC SMOKE DETECTION SYSTEM - A SMOKE DETECTION SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN THE AREAS LISTED IN 907.2.11.1.
[907.2.11.2]	SINGLE OR MULTIPLE-STATION SMOKE ALARMS SHALL BE INSTALLED IN ALL OF THE FOLLOWING LOCATIONS IN GROUP R-3: ON THE CEILING OR WALL OUTSIDE OF EACH SEPARATE SLEEPING AREA, IN EACH ROOM USED FOR SLEEPING, AND IN EACH STORY WITHIN THE DWELLING UNIT.
[907.2.11.3]	SMOKE ALARMS SHALL NOT BE INSTALLED WITHIN 20'-0" OF A PERMANENT COOKING APPLIANCE.
[907.2.11.4]	SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3'-0" FROM THE DOOR OF A BATHROOM CONTAINING A BATHTUB OR SHOWER.
[907.2.11.7]	SMOKE DETECTORS LISTED IN ACCORDANCE WITH UL 268 AND PROVIDED AS PART OF THE BUILDING FIRE ALARM SYSTEM SHALL BE AN ACCEPTABLE ALTERNATIVE TO SINGLE AND MULTIPLE STATION SMOKE ALARMS. THE FIRE ALARM SYSTEM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS IN SECTION 907 AND ACTIVATION OF A SMOKE DETECTOR IN A DWELLING UNIT OR SLEEPING UNIT SHALL INITIATE ALARM NOTIFICATION IN THE DWELLING UNIT OR SLEEPING UNIT IN ACCORDANCE WITH SECTION 907.5.2
[907.5.2.3.1]	VISIBLE ALARM NOTIFICATION APPLIANCES SHALL BE PROVIDED IN ALL PUBLIC USE AND COMMON AREAS.
[915.1.2]	CARBON MONOXIDE DETECTION SHALL BE PROVIDED IN SLEEPING UNITS AND DWELLING UNITS SERVED BY A FUEL BURNING APPLIANCE OR FURNACE.

CHAPTER 10: MEANS OF EGRESS

[TABLE 1004.1.2]	MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT: DORMITORIES & RESIDENCE - 1 PERSON PER UNIT = 6 OCCUPANTS BUSINESS - 2,241 SF / 100 SF PER PERSON = 23 OCCUPANTS APPARATUS & MEZZANINE - 8,616 SF / 300 SF PER PERSON = 29 OCCUPANTS TRAINING ROOM - 1,155 SF / 15 SF PER PERSON = 77 OCCUPANTS GRAND TOTAL NUMBER OF OCCUPANTS: 135 PERSONS
[1004.1.1.2]	THE OCCUPANT LOAD OF A MEZZANINE SHALL BE ADDED TO THE OCCUPANT LOAD OF THE ROOM THROUGH WHICH REQUIRED EGRESS OCCURS.
[TABLE 1006.2.1]	SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY MAX COMMON PATH OF EGRESS TRAVEL DISTANCE (SPRINKLERED): 100'-0"
[TABLE 1006.3.1]	MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS/STORY: 1-500 OCCUPANTS = 2 EXITS REQUIRED, 5 PROVIDED
[1016.2.2]	EGRESS THROUGH INTERVENING SPACES SHALL BE ALLOWED WHERE THE ADJOINING ROOMS OR AREAS ARE ACCESSORY TO ONE ANOTHER, AND PROVIDE A DISCERNABLE PATH OF EGRESS TRAVEL TO AN EXIT.
[1016.2.5]	EXCEPTION #1: MEANS OF EGRESS ARE NOT PROHIBITED THROUGH A KITCHEN AREA SERVING ADJOINING ROOMS CONSTITUTING PART OF THE DWELLING UNIT OR SLEEPING UNIT.
[TABLE 1017.2]	EXIT ACCESS TRAVEL DISTANCE (SPRINKLERED): 250'-0" MAXIMUM (MOST RESTRICTIVE)
[1017.3.1]	EXIT ACCESS STAIRWAYS AND RAMPS SHALL BE INCLUDED IN THE EXIT ACCESS TRAVEL DISTANCE MEASUREMENT.
[1019.2]	EXIT ACCESS STAIRWAYS AND RAMPS THAT SERVE FLOOR LEVELS WITHIN A SINGLE STORY ARE NOT REQUIRED TO BE ENCLOSED.
[TABLE 1020.2]	MINIMUM CORRIDOR WIDTHS: 44" MINIMUM
[1019.2]	DEAD END CORRIDORS (SPRINKLERED) = 50'-0" MAXIMUM

CHAPTER 11: ACCESSIBILITY

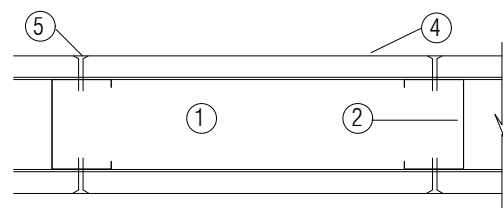
[1103.2.15]	MILITARY, FIRE SERVICE, AND POLICE FACILITIES: HOUSING, BATHING, TOILET, TRAINING, AND STORAGE AREAS INTENDED FOR USE AND OCCUPANCY EXCLUSIVELY BY PERSONNEL REQUIRED TO BE PHYSICALLY AGILE ARE NOT REQUIRED TO BE ACCESSIBLE.
[1104.1]	SITE ARRIVAL POINTS: MINIMUM (1) ACCESSIBLE ROUTE WITHIN SITE TO AN ACCESSIBLE ENTRANCE - (3) PROVIDED
[1105.1]	PUBLIC ENTRANCES: MINIMUM OF 60% OF ALL PUBLIC ENTRANCES TO BE ACCESSIBLE (100% ACCESSIBLE)
[1105.2]	[TABLE 1106.1] ACCESSIBLE PARKING SPACES: (2) REQUIRED - (2) PROVIDED

2015 MICHIGAN MECHANICAL CODE:

[306.5]	WHERE EQUIPMENT OR APPLIANCES REQUIRING ACCESS ARE LOCATED ON AN ELEVATED STRUCTURE OR THE ROOF OF A BUILDING SO THAT PERSONNEL WILL HAVE TO CLIMB HIGHER THAN 16 FEET ABOVE GRADE TO ACCESS THE EQUIPMENT OR APPLIANCE, AN INTERIOR OR EXTERIOR MEANS OF ACCESS SHALL BE PROVIDED. EXCEPTION 1: AN APPROVED, BUILDING MOUNTED LADDER RECEIVER WHICH PREVENTS THE LADDER FROM SLIDING SIDEWAYS OFF THE BUILDING OR SLIPPING BACKWARDS AND MEETS THE LADDER SAFETY STANDARD OF OSHA REGULATIONS MAY BE INSTALLED ON BUILDINGS UNDER 20 FEET IN HEIGHT ABOVE GRADE TO ACCESS EQUIPMENT OR APPLIANCES.
[505.1]	DOMESTIC KITCHEN EXHAUST SYSTEMS SHALL DISCHARGE TO THE OUTDOORS THROUGH AIR TIGHT SHEET METAL DUCTS EQUIPPED WITH BACKDRAFT DAMPERS AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS.
[717.5.4]	EXCEPTION #3: FIRE DAMPERS ARE NOT REQUIRED AT FIRE PARTITION PENETRATIONS WHERE THE DUCT SYSTEM IS CONSTRUCTED OF APPROVED MATERIALS, AND COMPLIES WITH THE REQUIREMENTS OF THIS SECTION.

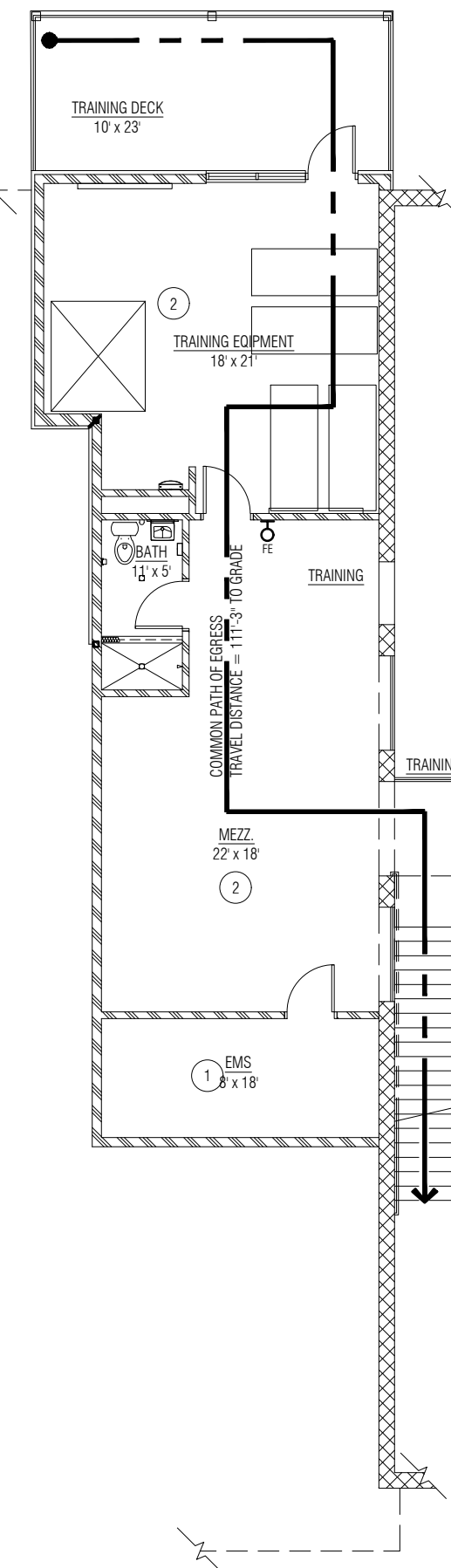
UL DESIGN DETAIL #W433

BASED ON UNDERWRITERS LABORATORIES INC. CURRENT FIRE RESISTANCE DIRECTORY DESIGN NO. W433 NONBEARING WALL RATING - 1/2 HR

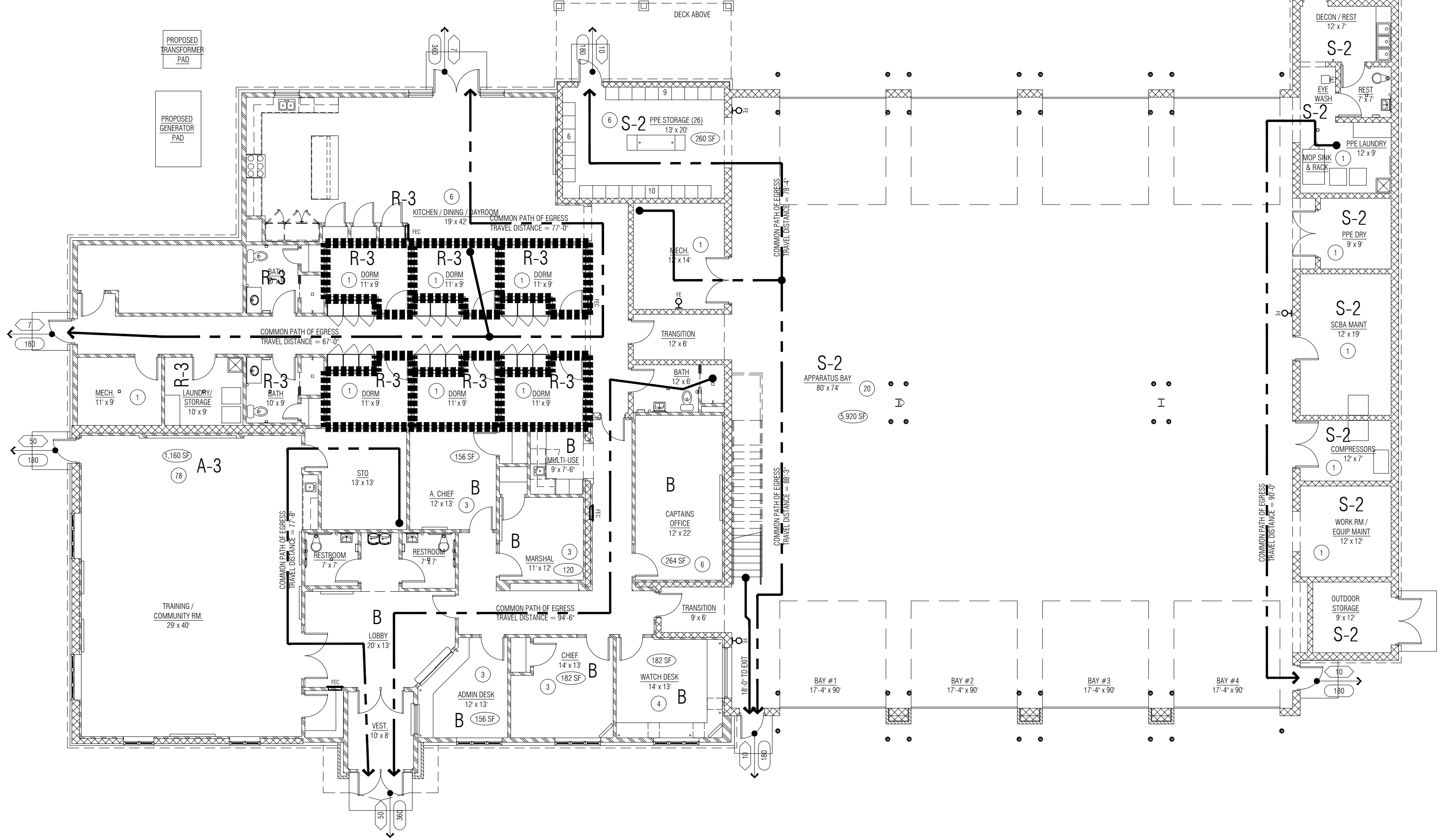


HORIZONTAL SECTION

- Proprietary channel shaped runners, min depth to accommodate stud size, attached to floor and ceiling with fasteners 24 in. OC, max. Framing Members* — Steel Studs — For the 1/2 Hour Nonbearing Wall Rating — Proprietary channel shaped studs, min. 2-1/2 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height
- N/A
- Gypsum Board* — 5/8 in. thick, 48 in. wide, with beveled, square, or tapered edges, applied either horizontally or vertically. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers need not be staggered.
- 1/2 Hour Nonbearing Rating On Steel Studs — Single layer secured to studs or resilient channels with 1 in. long Type S steel screws spaced 12 in. OC at the perimeter and in the field.
- Joint Tape and Compound — Vinyl or casing, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
- Furring Channels — (Optional, Not Shown) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws for steel studs and 1-1/4 in. long Type S or Type W screws for wood studs.



2 Mezzanine Level Code and Life Safety Plan
1/32" = 1'-0"



1 Main Floor Code and Life Safety Plan
1/32" = 1'-0"

CODE AND LIFE SAFETY PLAN LEGEND

GENERAL NOTE: AT ALL FIRE RATED WALL CONSTRUCTION, NEW OR OTHERWISE ALTERED BY THIS PROJECT, PROVIDE SIGNAGE ABOVE THE ADJACENT ACCESSIBLE CEILING THAT STATES: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS." THE LETTERS ARE TO BE 1/2" HIGH MIN. AND ARE TO BE STENCILED IN PAINT DIRECTLY ONTO THE WALL. LOCATE THE SIGNS 30 FEET O.C. MAXIMUM.

- | | |
|-------|---|
| ----- | CODE ANALYSIS WALL CONSTRUCTION 1:
NEW WALL CONSTRUCTION TO BE 1/2-HOUR "FIRE BARRIER" CONSTRUCTION PER MBC SECTION 707. PROVIDE FIRE / SMOKE DAMPERS AS REQUIRED PER MBC. ALSO PROVIDE FIRE SEAL AT WALL AND ROOF / FLOOR DECK INTERSECTIONS. |
| ○ → | OCCUPANT CAPACITY OF EGRESS COMPONENT |
| ● → | OCCUPANT LOAD EXITING THROUGH EGRESS COMPONENT |
| ○ | ROOM OCCUPANT LOAD |
| ☒ | PORTABLE FIRE EXTINGUISHER / SEMI-RECESSED CABINET |
| ☒ | WALL MOUNTED FIRE EXTINGUISHER |

PARTNERS



PARTNERS in Architecture, PLC

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Statement of Intellectual Property

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CONSULTANT

KEY PLAN

OWNER

Highland Township
Fire Department

PROJECT NAME

Highland Township
Fire Station No. 1

1600 W. Highland Rd.
Highland, MI 48357

PROJECT NO.

18-122A

ISSUES / REVISIONS

Bidding - Construction	03/27/20
CCD #4	09/01/20

DRAWN BY

CHECKED BY
LL / AM

APPROVED BY
DG

SHEET NAME

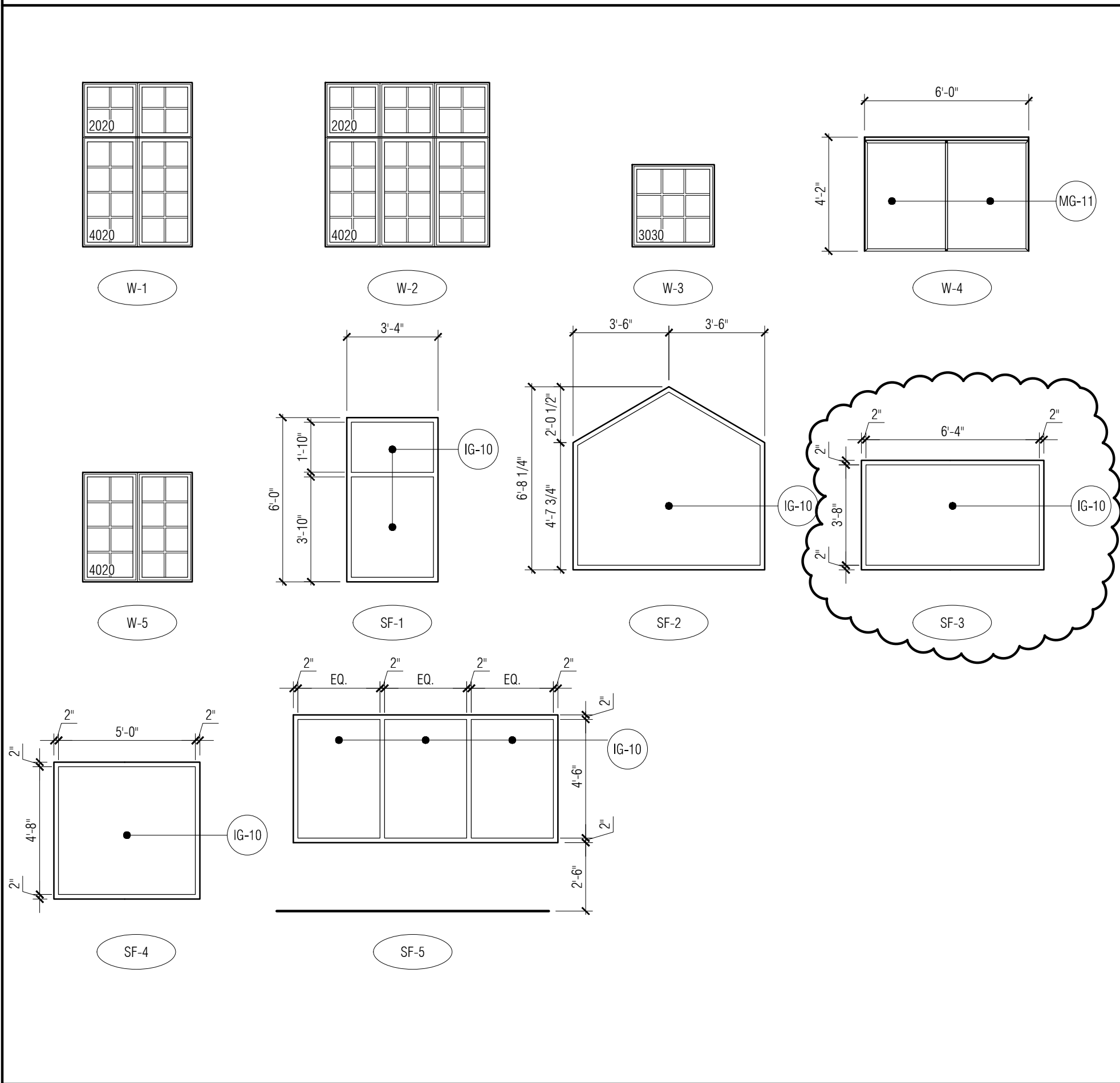
LIFE SAFETY CODE
INFORMATION

SHEET NO.
A0-02

Window Schedule

WINDOW NO.	WINDOW		DETAILS			WINDOW NOTES
	STYLE	MATERIAL	HEAD	JAMB	SILL	
W-1	CASEMENT FIXED	ALUM CLAD WD	9/A6-10 & 1/A6-04	D12 & D10	8/A6-10 & 8/A6-10 (SIM)	1, 2
W-2	CASEMENT FIXED	ALUM CLAD WD	9/A6-10 & 6/A6-10	D12 & D8	8/A6-10 & 5/A6-10	1, 2
W-3	CASEMENT FIXED	ALUM CLAD WD	5/A6-01		4/A6-10	1, 2
W-4	SLIDING TRANSACTION	ALUM	5/A8-03		5/A8-03	4
W-5	CASEMENT FIXED	ALUM CLAD WD	3/A6-02		7/A6-10	5
SF-1	STOREFRONT	ALUMINUM	6/A6-10 (SIM)	D12	5/A6-10 (SIM)	
SF-2	STOREFRONT	ALUMINUM	12/A6-10	7/A3-20 (SIM)	2/A6-03	
SF-3	STOREFRONT	HM	D5	D6	D17	
SF-4	STOREFRONT	ALUMINUM	11/A8-03	D14 (SIM)	11/A8-03	
SF-5	STOREFRONT	ALUMINUM	D7	D8	5/A6-10 (SIM)	3

Window Types



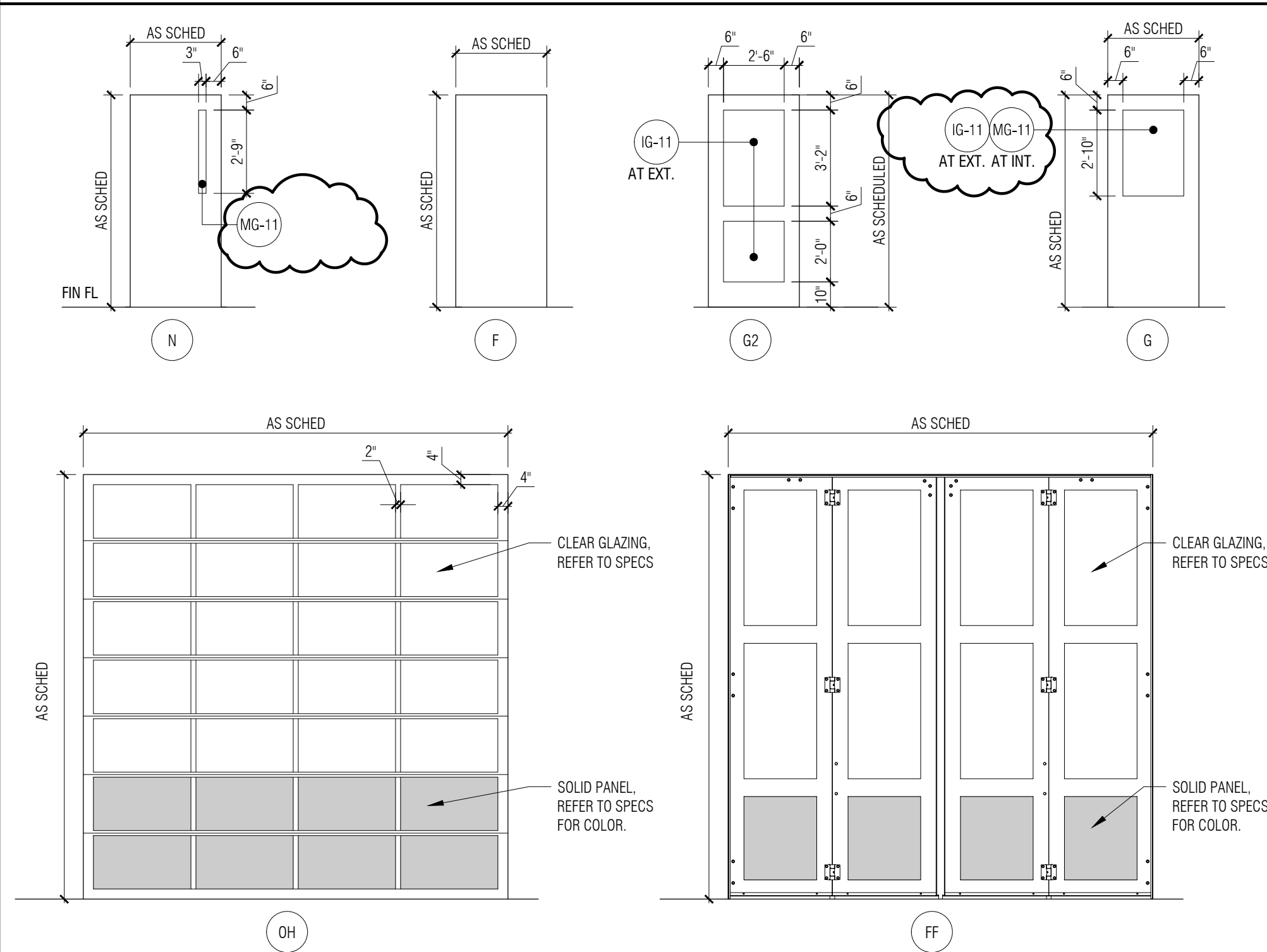
Window General Notes:

A. REFER TO SPECIFICATION FOR INTERIOR OR EXTERIOR FINISHES

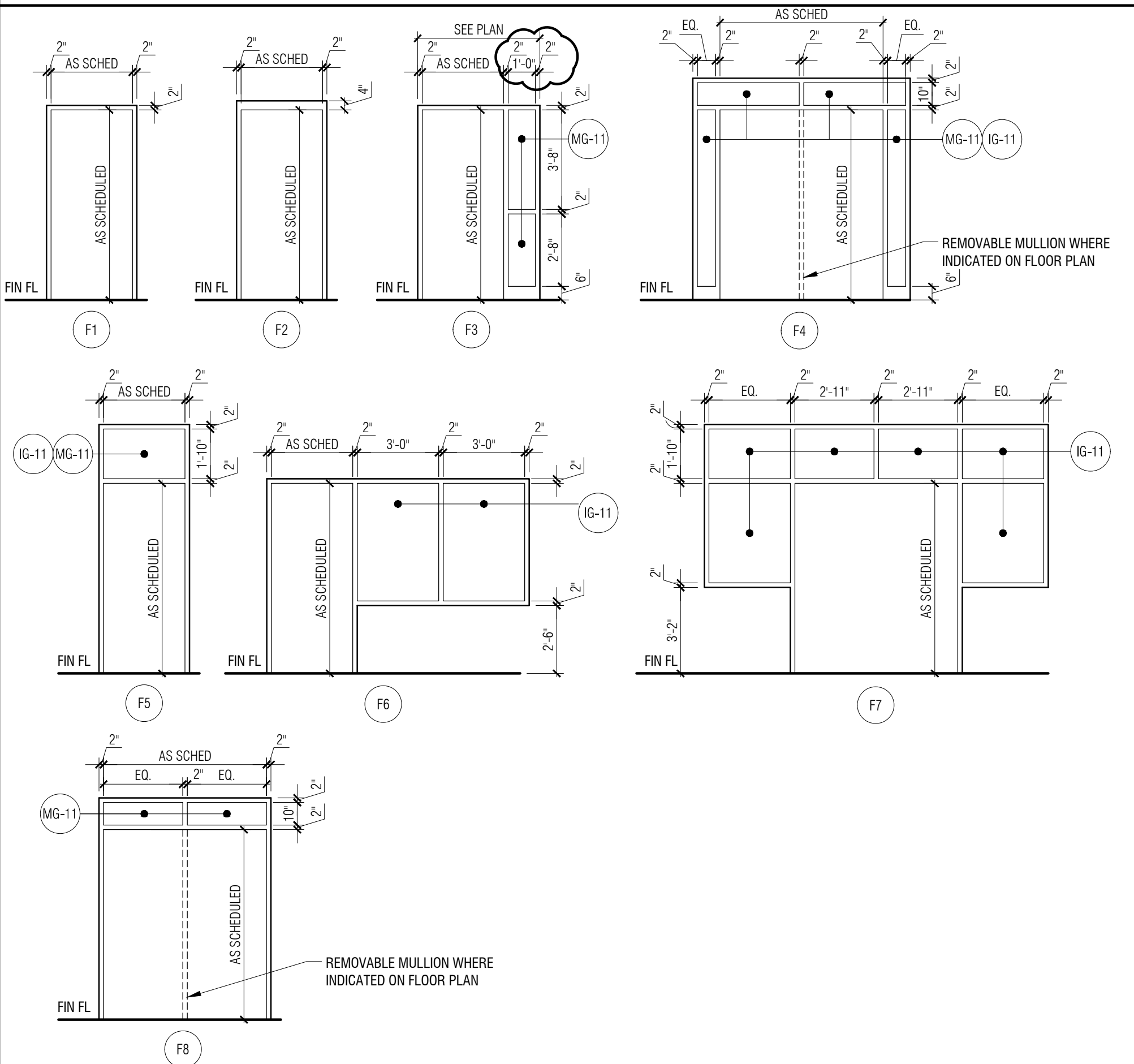
Window Key Notes:

1. REFER TO SPECIFICATIONS FOR BASIS OF DESIGN.
2. REFER TO WINDOW TYPE AND MODEL NUMBER FOR DIMENSIONS.
3. BASE BID IF ADD ALT # 3 IS NOT ACCEPTED - REFER TO DOOR 204B.
4. TRANSACTION WINDOW AS SPECIFIED - REFER TO MANUFACTURERS DETAILS FOR HEAD, JAMB AND SILL INSTALLATION
5. DORMER WINDOW - REFER TO ROOF PLAN A3-30


Door Types



Frame Types



Door / Openings General Notes:

- A. FIELD VERIFY ALL OPENINGS PRIOR TO DOOR/FRAME FABRICATION.
- B. DOOR TYPE NAMING CONVENTIONS ARE BASED ON SDI 108-18 STANDARDS WHERE APPLICABLE.
- C. FIRE RATED LABEL DOORS AND FRAMES ARE LISTED IN MINUTES.
- D. REFER TO 087100 DOOR HARDWARE SPEC FOR SECTION NUMBERS.
- E. ALL WOOD DOORS TO BE SOLID CORE.
- F. DOORS WITH THE SYMBOL  ON MAIN LEVEL FLOOR PLAN A3-01 ARE TO RECEIVE CARD KEY ACCESS. PROVIDE CONDUIT AND PULL STRING. INDICATE LOCATION OF CONDUIT ABOVE CEILING SYSTEM. REFER TO HARDWARE SPECIFICATIONS.
- G. REFER TO DETAILS ON A0-15 AND A0-14.

Door / Opening Key Notes:

1. REFER TO ALTERNATE # 1.
2. DOOR FRAME TO ALIGNED TO "APPARATUS BAY" SIDE OF CMU.
3. DOOR FRAME TO BE ALIGNED TO "PASSAGE" SIDE OF CMU. DOOR FRAME SHOULD ALIGN WITH END OF GYP. RD RETURN.
4. 1/2" CONDUIT FOR ELECTRIFIED HARDWARE AND ACCESS CONTROL - REFER TO ELEC. AND DOOR HARDWARE.
5. DOOR IS PART OF ADD ALT; REPLACE WITH SF-5 (NO DOOR) IF NOT ACCEPTED - REFER TO WINDOW TYPES.

Door / Opening Schedule

DOOR NO.	DOOR / OPENING SIZE (W X H) CONTRACTOR TO VERIFY DOOR SIZE IF OPENING IS EXISTING	DOOR			FRAME			DETAILS			HARDWARE SET #	LABEL (MIN.)	DOOR / OPENING KEY NOTES	
		TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRES / SILL				
MAIN LEVEL														
101	(2) 3'-0" X 7'-0"	G2	ALUM	ANOD-1	F4	ALUM	ANOD-1	2/A6-03	7/A3-20	T2	3.0			
102	(2) 3'-0" X 7'-0"	G2	ALUM	ANOD-1	F8	ALUM	ANOD-1	D13	D14	T3	8.0		4	
103	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T8	20.0			
104	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T8	20.0			
105A	(2) 3'-0" X 7'-0"	G2	ALUM	ANOD-1	F4	ALUM	ANOD-1	D13	D14	T3	9.0			
105B	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	16.0			
105C	3'-0" X 7'-0"	F	ALUM	ANOD-1	F5	ALUM	ANOD-1	D11	D12/D16	T2	6.0			
106	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T2	17.0			
107	3'-0" X 7'-0"	F	WD	ST-1	F3	HM	PNT-2	D3	D4	--	11.0		4	
108	3'-0" X 7'-0"	F	WD	ST-1	F3	HM	PNT-2	D3	D4	--	15.0			
109A	3'-0" X 7'-0"	F	WD	ST-1	F3	HM	PNT-2	D3	D4	--	15.0			
109B	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	21.0			
110A	3'-0" X 7'-0"	F	WD	ST-1	F3	HM	PNT-2	D3	D4	--	15.0			
110B	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	21.0			
111A	3'-0" X 7'-0"	F	WD	ST-1	F3	HM	PNT-2	D3	D4	--	15.0			
111B	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	21.0			
112	3'-0" X 7'-0"	F	WD	ST-1	F3	HM	PNT-2	D3	D4	--	15.0			
113	3'-0" X 7'-0"	G	HM	PNT-2	F1	HM	PNT-2	D5	D6	T9	10.0		3	
114	3'-0" X 7'-0"	F	WD	ST-1	F3	HM	PNT-2	D3	D4	--	15.0			
116	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D1	D2	T8	18.0		3	
117	3'-0" X 7'-0"	G	HM	PNT-2	F1	HM	PNT-2	D1	D2	T9	10.0		3	
118	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	27.0			
119	(2) 3'-0" X 7'-0"	F	HM	PNT-2	F2	HM	PNT-2	D1	D2	T1	14.0		2	
120A	3'-0" X 7'-0"	G	WD	ST-1	F1	HM	PNT-2	D3	D4	--	25.0			
120B	3'-0" X 7'-0"	F	ALUM	ANOD-1	F5	ALUM	ANOD-1	D11	D8/D15	T1	5.0		4	
121	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T3	18.0		20	
122	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T3	18.0		20	
123	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T3	18.0		20	
124A	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T8	18.0			
124B	2'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	21.0			
125	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T3	18.0		20	
126	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T3	18.0		20	
127	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T3	18.0		20	
128A	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T8	19.0			
128B	2'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	21.0			
129A	(2) 3'-0" X 7'-0"	G2	ALUM	ANOD-1	F7	ALUM	ANOD-1	6/A6-10 (SIM)	D8/D15	T1	2.0			
129B	2'-8" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	28.0			
129C	2'-8" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	28.0			
129D	2'-8" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	--	28.0			
131A	14'-0" X 14'-0"	OH	PREMANUFAC. SECTION OVERHEAD DOOR						D19	D18 / D20	--	26.0		1
131B	14'-0" X 14'-0"	OH	PREMANUFAC. SECTION OVERHEAD DOOR						D19	D18	--	26.0		1
131C	14'-0" X 14'-0"	OH	PREMANUFAC. SECTION OVERHEAD DOOR						D19	D18	--	26.0		1
131D	14'-0" X 14'-0"	OH	PREMANUFAC. SECTION OVERHEAD DOOR						D19	D18 / D20	--	26.0		1
131E	14'-0" X 14'-0"	OH	PREMANUFAC. SECTION OVERHEAD DOOR						D19	D20	--	26.0		1
131F	14'-0" X 14'-0"	OH	PREMANUFAC. SECTION OVERHEAD DOOR						D19	D20	--	26.0		1
131G	14'-0" X 14'-0"	OH	PREMANUFAC. SECTION OVERHEAD DOOR						D19	D20	--	26.0		1
131H	14'-0" X 14'-0"	OH	PREMANUFAC. SECTION OVERHEAD DOOR						D19	D20	--	26.0		1
131J	3'-0" X 7'-0"	N	FRP	--	F2	ALUM	ANOD-1	D9	D10	T1	4.0		4	
131K	3'-0" X 7'-0"	N	FRP	--	F2	ALUM	ANOD-1	D9	D10	T1	4.0			
132	3'-0" X 7'-0"	F	FRP	--	F2	ALUM	ANOD-1	D11	D12/D16	T1	5.0		4	
133	3'-0" X 7'-0"	N	FRP	--	F2	ALUM	ANOD-1	D9	D10	T1	5.0		4	
134A	3'-0" X 7'-0"	F	HM	PNT-2	F2	HM	PNT-2	D1	D2	--	18.0			
134B	3'-0" X 7'-0"	F	HM	PNT-2	F2	HM	PNT-2	D1	D2	--	18.0			
136	(2) 3'-0" X 7'-0"	N	HM	PNT-2	F2	HM	PNT-2	D1	D2	T1	22.0		2	
137	3'-0" X 7'-0"	N	HM	PNT-2	F2	HM	PNT-2	D1	D2	T1	13.0		2	
138	(2) 3'-0" X 7'-0"	F	HM	PNT-2	F2	HM	PNT-2	D1	D2	T1	23.0		2	
140	(2) 3'-0" X 7'-0"	F	FRP	--	F2	ALUM	ANOD-1	D9	D10	T1	7.0			
141	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T9	29.0			
142	3'-0" X 7'-0"	F	WD	ST-1	F1	HM	PNT-2	D3	D4	T9	29.0			
MEZZANINE LEVEL														
202	3'-0" X 7'-0"	F	HM	PNT-2	F1	HM	PNT-2	D3	D4	--	12.0			
203	3'-0" X 7'-0"	F	HM	PNT-2	F1	HM	PNT-2	D3	D4	T6	18.0			
204A	3'-0" X 7'-0"	N	HM	PNT-2	F1	HM	PNT-2	D3	D4	T5	24.0			
204B	3'-0" X 7'-0"	G	ALUM	ANOD-1	F6	ALUM	ANOD-1	D7	D8	T2	1.0		5	

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CONSULTANT

KEY PLAN

OWNER

Highland Township
Fire Department

PROJECT NAME

Highland Township
Fire Station No. 1

1600 W. Highland Rd.
Highland, MI 48357

PROJECT NO.

18-122A

ISSUES / REVISIONS

Bidding - Construction 03/27/20
Addendum #1 04/20/20
CCD #4 09/01/20

DRAWN BY

AR

CHECKED BY

LL / AM

APPROVED BY

DG

SHEET NAME

DOOR SCHEDULE &
FRAME TYPES

SHEET NO.

A0-04

	<p>OVERHEAD DOOR AS SCHEDULED</p> <p>DOOR FRAME SYSTEM PER MANUFACTURES SPECIFICATIONS</p> <p>12" CMU - REFER TO PLAN DETAILS</p> <p>O.H. DOOR JAMB @ EXTERIOR CMU 3" = 1'-0" D20</p>	<p>REFER TO PLAN DETAILS</p> <p>8" OR 12" REF. FLOORPLAN</p> <p>1/4"</p> <p>FULL BED DEPTH STONE SKIRTING</p> <p>SEALANT ON BACKER ROD (BOTH SIDES)</p> <p>PRESERVATIVE WOOD SHIM AS REQ'D</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>ALUM FRAME</p> <p>1/2" CONDUIT AT DOORS WITH ELECTRIFIED HARDWARE AND ACCESS CONTROLS - REFER TO ELECTRICAL AND COORDINATE W/ DOOR HARDWARE FOR SPECIFIC LOCATIONS</p> <p>AT EXPOSED CMU CORNERS: 1" BULLNOSE (TYP.)</p> <p>ALUM JAMB @ EXTERIOR STUD, MASONRY AND STONE WALL D16</p>	<p>REFER TO PLAN DETAILS</p> <p>8" OR 12" REF. FLOORPLAN</p> <p>1/4"</p> <p>FIBER CEMENT SIDING</p> <p>SEALANT ON BACKER ROD (BOTH SIDES)</p> <p>PRESERVATIVE WOOD SHIM AS REQ'D</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>ALUM FRAME</p> <p>1/2" CONDUIT AT DOORS WITH ELECTRIFIED HARDWARE AND ACCESS CONTROLS - REFER TO ELECTRICAL AND COORDINATE W/ DOOR HARDWARE FOR SPECIFIC LOCATIONS</p> <p>AT EXPOSED CMU CORNERS: 1" BULLNOSE (TYP.)</p> <p>ALUM JAMB @ EXTERIOR STUD AND MASONRY WALL 3" = 1'-0" D12</p>	<p>REFER TO PLAN DETAILS</p> <p>1/4"</p> <p>FIBER CEMENT SIDING TRIM</p> <p>FURRING</p> <p>SEALANT ON BACKER ROD</p> <p>WOOD BLOCKING</p> <p>PRESERVATIVE WOOD SHIM AS REQ'D</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>ALUM FRAME</p> <p>SEALANT</p> <p>5/8" SHEATHING</p> <p>ALUM JAMB @ EXTERIOR STUD WALL 3" = 1'-0" D8</p>	<p>LINE OF WALL WHERE APPLICABLE</p> <p>4" (TYP) MIN U.N.O.</p> <p>GYP BOARD AS SCHEDULED</p> <p>HM FRAME AS SCHEDULED - ANCHORED TO METAL STUDS AS REQ'D</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>1/2" CONDUIT AT DOORS WITH ELECTRIFIED HARDWARE AND ACCESS CONTROLS - REFER TO ELECTRICAL AND COORDINATE W/ DOOR HARDWARE FOR SPECIFIC LOCATIONS</p> <p>RECESSED ELECTRICAL BOX AND 1/2" CONDUIT AT DOORS W/ ACCESS CONTROL - COORDINATE W/ DOOR HARDWARE AND ELECTRICAL FOR SPECIFIC LOCATIONS</p> <p>HM JAMB AT STUD WALL 3" = 1'-0" D4</p>
	<p>OVERHEAD TRACK SYSTEM ATTACHED TO MASONRY BLOCK AND STEEL LINTEL PER MANUFACTURES SPECIFICATION</p> <p>OVERHEAD TRACK SYSTEM, AND FRAME PER MANUFACTURES SPECIFICATIONS</p> <p>OVERHEAD DOOR AS SCHEDULED</p> <p>O.H. HEAD AT MASONRY WALL 3" = 1'-0" D19</p>	<p>REFER TO PLAN DETAILS</p> <p>1/4"</p> <p>FULL BED DEPTH STONE SKIRTING</p> <p>SEALANT ON BACKER ROD</p> <p>WOOD BLOCKING</p> <p>PRESERVATIVE WOOD SHIM AS REQ'D</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>ALUM FRAME</p> <p>SEALANT</p> <p>5/8" SHEATHING</p> <p>ALUM JAMB @ EXTERIOR STUD AND STONE WALL 3" = 1'-0" D15</p>	<p>REFER TO PLAN DETAILS</p> <p>8" OR 12" REF. FLOORPLAN</p> <p>1/4"</p> <p>1 3/4"</p> <p>FURRING</p> <p>BENT PLATE AT HEAD</p> <p>FIBER CEMENT SIDING TRIM</p> <p>SEALANT ON BACKER ROD (BOTH SIDES)</p> <p>PRESERVATIVE WOOD SHIM AS REQ'D</p> <p>ALUM FRAME</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>AT EXPOSED CMU CORNERS: 1" BULLNOSE (TYP.)</p> <p>5/8" GYP BD - 3 5/8" MTL. STUD FRAMING AT 16" O.C.</p> <p>1/2" CONDUIT AT DOORS WITH ELECTRIFIED HARDWARE AND ACCESS CONTROLS - REFER TO ELECTRICAL AND COORDINATE W/ DOOR HARDWARE FOR SPECIFIC LOCATIONS</p> <p>ALUM HEAD @ EXTERIOR STUD AND MASONRY WALL 3" = 1'-0" D11</p>	<p>REFER TO PLAN DETAILS</p> <p>1/4"</p> <p>FIBER CEMENT SIDING</p> <p>FURRING</p> <p>5/8" SHEATHING</p> <p>BENT PLATE AT HEAD</p> <p>PRESERVATIVE WOOD SHIM AS REQ'D</p> <p>SEALANT ON BACKER ROD</p> <p>ALUM FRAME</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>1/2" CONDUIT AT DOORS WITH ELECTRIFIED HARDWARE AND ACCESS CONTROLS - REFER TO ELECTRICAL AND COORDINATE W/ DOOR HARDWARE FOR SPECIFIC LOCATIONS</p> <p>LT. GAUGE HEADERS, REF. STRUCTURAL AND LT. GAUGE SUPPLIER</p> <p>ALUM HEAD @ EXTERIOR STUD WALL 3" = 1'-0" D7</p>	<p>REFER TO WALL TYPES FOR THICKNESS</p> <p>METAL STUD HEADER</p> <p>GYP BD AS SCHEDULED</p> <p>ANCHOR CLIPS</p> <p>HM FRAME AS SCHEDULED ANCHORED TO METAL STUDS AS REQ'D</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>HM HEAD AT STUD WALL 3" = 1'-0" D3</p>
	<p>OVERHEAD DOOR AS SCHEDULED</p> <p>DOOR FRAME SYSTEM PER MANUFACTURES SPECIFICATIONS</p> <p>STEEL ANGLE BOLTED TO MASONRY</p> <p>FULL BED DEPTH STONE VENEER</p> <p>O.H. DOOR JAMB @ EXTERIOR CMU & STONE VENEER 3" = 1'-0" D18</p>	<p>1/4"</p> <p>WALL AS DESIGNATED</p> <p>SEALANT ON BACKER (BOTH SIDES)</p> <p>DOOR AS SCHEDULED</p> <p>ALUM FRAMING SYSTEM</p> <p>PRESERVATIVE WD SHIM</p> <p>METAL STUD BRACING AS REQ'D BY MANUFACTURER</p> <p>ALUM JAMB AT STUD WALL 3" = 1'-0" D14</p>	<p>REFER TO WALL TYPES</p> <p>1/4"</p> <p>FULL BED DEPTH STONE SKIRTING WHERE APPLICABLE</p> <p>SEALANT AS ON BACKER ROD (BOTH SIDES)</p> <p>PRESERVATIVE WOOD SHIM AS REQ'D</p> <p>ALUM FRAME</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>NOTE: AT DOORS WITH ACCESS CONTROL AND/OR ELECTRIFIED HARDWARE PROVIDE 1/2" CONDUIT - REFER TO ELECTRICAL & COORDINATE W/ DOOR HARDWARE FOR SPECIFIC LOCATIONS</p> <p>NOTE: AT DOORS WITH ACCESS CONTROL PROVIDE RECESSED ELECTRICAL BOX AND 1/2" CONDUIT - COORDINATE W/ DOOR HARDWARE AND ELECTRICAL FOR SPECIFIC LOCATIONS</p> <p>ALUM JAMB AT MASONRY WALL 3" = 1'-0" D10</p>	<p>4" (TYP) MIN</p> <p>LINE OF WALL WHERE APPLICABLE</p> <p>1" BULLNOSE (TYP) @ EXPOSED CORNERS</p> <p>HM FRAME ANCHORED TO MASONRY AS REQ. - GROUT SOLID</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>1/2" CONDUIT AT DOORS WITH ELECTRIFIED HARDWARE AND ACCESS CONTROLS - REFER TO ELECTRICAL AND COORDINATE W/ DOOR HARDWARE FOR SPECIFIC LOCATIONS</p> <p>SEALANT (BOTH SIDES)</p> <p>RECESSED ELECTRICAL BOX AND 1/2" CONDUIT AT DOORS W/ ACCESS CONTROL - COORDINATE W/ DOOR HARDWARE AND ELECTRICAL FOR SPECIFIC LOCATIONS</p> <p>HM JAMB AT GYP BD ON MASONRY WALL 3" = 1'-0" D6</p>	<p>REFER TO WALL TYPES</p> <p>1" BULLNOSE (TYP) @ EXPOSED CORNERS</p> <p>SEALANT ALL AROUND (BOTH SIDES)</p> <p>HM FRAME ANCHORED TO MASONRY AS REQ. - GROUT SOLID</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>NOTE: AT DOORS WITH ACCESS CONTROL AND/OR ELECTRIFIED HARDWARE PROVIDE 1/2" CONDUIT - REFER TO ELECTRICAL & COORDINATE W/ DOOR HARDWARE FOR SPECIFIC LOCATIONS</p> <p>NOTE: AT DOORS WITH ACCESS CONTROL PROVIDE RECESSED ELECTRICAL BOX AND 1/2" CONDUIT - COORDINATE W/ DOOR HARDWARE AND ELECTRICAL FOR SPECIFIC LOCATIONS</p> <p>LINE OF WALL WHERE APPLICABLE</p> <p>4" (TYP) MIN</p> <p>HM JAMB AT MASONRY WALL 3" = 1'-0" D2</p>
	<p>H.M. FRAME ANCHORED TO MASONRY AS REQ.</p> <p>SEALANT (BOTH SIDES AND ALL AROUND)</p> <p>CORNER BEAD W/ FACE TOPPING</p> <p>GYP BD ON FURRING, REFER TO FLOOR PLAN FOR WALL TYPE (TYP)</p> <p>1" BULLNOSE (TYP) @ EXPOSED CORNERS</p> <p>SOLID BLOCK AT ALL EXPOSED CMU WINDOW AND OPENING LEDGES (TYP)</p> <p>REFER TO WALL TYPES & PLANS</p> <p>HM SILL AT GYP BD ON MASONRY WALL 3" = 1'-0" D17</p>	<p>REFER TO WALL TYPES FOR THICKNESS</p> <p>1/4"</p> <p>METAL STUD HEADER</p> <p>PRESERVATIVE WD SHIM AS REQ'D</p> <p>SEALANT ON BACKER ROD (BOTH SIDES)</p> <p>ALUM FRAMING SYSTEM AS SCHED</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>ALUM HEAD AT STUD WALL 3" = 1'-0" D13</p>	<p>REFER TO WALL TYPES & PLANS</p> <p>CMU OR STEEL LINTEL REFER TO STRUCTURAL LINTEL NOTES</p> <p>SEALANT ALL AROUND (BOTH SIDES)</p> <p>PRE. FIN. MTL FLASHING</p> <p>PRESERVATIVE WOOD SHIM AS REQ'D</p> <p>ALUM FRAME</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>ALUM HEAD AT MASONRY WALL 3" = 1'-0" D9</p>	<p>REFER TO WALL TYPES & PLANS</p> <p>GYP BD ON FURRING, REFER TO FLOOR PLAN FOR WALL TYPE (TYP)</p> <p>CMU OR STEEL LINTEL REFER TO STRUCTURAL LINTEL NOTES</p> <p>CORNER BEAD W/ FACE TOPPING</p> <p>SEALANT (BOTH SIDES AND ALL AROUND)</p> <p>H.M. FRAME ANCHORED TO MASONRY AS REQ.</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>HM HEAD AT GYP BD ON MASONRY WALL 3" = 1'-0" D5</p>	<p>REFER TO WALL TYPES & PLANS</p> <p>CMU OR STEEL LINTEL REFER TO STRUCTURAL LINTEL NOTES</p> <p>SEALANT ALL AROUND (BOTH SIDES)</p> <p>HM FRAME ANCHORED TO MASONRY AS REQ.</p> <p>DOOR OR GLAZING AS SCHEDULED</p> <p>HM HEAD AT MASONRY WALL 3" = 1'-0" D1</p>



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CONSULTANT

KEY PLAN

OWNER

Highland Township
Fire Department

PROJECT NAME
Highland Township
Fire Station No. 1

1600 W. Highland Rd.
Highland, MI 48357

PROJECT NO.
18-122A

ISSUES / REVISIONS
Bidding - Construction 03/27/20
CCD #4 09/01/20

DRAWN BY
LL
CHECKED BY
LL / AM
APPROVED BY
DG

SHEET NAME
OPENING
DETAILS

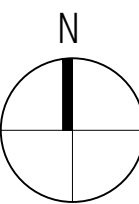
SHEET NO.
A0-13

FLOOR PLAN GENERAL NOTES:

- ALL DIMENSIONS ARE TO FINISH FACE OF WALL - WALL THICKNESS IS SHOWN AS NOMINAL. SEE WALL TYPES FOR ACTUAL THICKNESS.
- COORDINATE SIZE AND LOCATION OF ALL DUCT, SHAFT AND LOUVER OPENINGS IN WALLS AND FLOORS WITH MECHANICAL AND ELECTRICAL. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS.
- DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- AT ALL LOCATIONS WHERE GYPSUM BOARD WALL INTERSECTS PERPENDICULAR TO MASONRY BLOCK WALL CORNER, THE GYPSUM BOARD IS TO BE SET BACK 1" FORM BULLNOSE OF BLOCK.
- AT FLOOR DRAIN LOCATIONS, SLOPE SLAB (-1") TO DRAIN LOCATION.

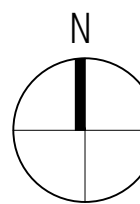
FLOOR PLAN KEY NOTES:

- SOLID SURFACE TRANSITION AT SHOWER - REFER TO DETAIL T7 ON A0-14
- THICKENED CONCRETE EQUIPMENT PAD, COORDINATE SIZE & LOCATIONS WITH MECH & ELEC EQUIPMENT
- UNDER COUNTER DISHWASHER PROVIDED BY OWNER
- DASHED LINE OF STONE SKIRTING AND SILL BELOW
- TV BY OWNER - REFER TO ELEC
- WASHER/DRYER PROVIDED BY OWNER - REFER TO MECH.
- LINE OF FLOOR MATERIAL CHANGE - NO TRANSITION STRIP BETWEEN MATERIALS - REFER TO DETAIL T4 ON A0-14
- HATCHED AREA OF MEZZANINE ABOVE
- PLUMBING FIXTURE - REFER TO PLUMBING
- WALL MOUNTED PPE STORAGE - REFER TO SPECIFICATIONS
- REGENCY 18 GAUGE STAINLESS STEEL WORK TABLE - ITEM NUMBER: 600T2400G WITH NO UNDERSHELF
- MILLWORK/CASEWORK - REFER TO INTERIOR ELEVATIONS
- 42" HIGH COUNTERTOP WITH BRACKETS
- BASE BID: NO DECK
ALTERNATE #3: PRESSURE TREATED WOOD FLOOR DECK ON WOOD FLOOR CONSTRUCTION - REFER TO WALL SECTIONS AND STRUCTURAL.
- MEZZANINE GUARD RAIL TERMINATION, MOUNTING, AND STAIR GUARD / HAND RAIL MUST MAINTAIN LESS THAN 4" GAP AT STEEL VERTICAL POSTS
- PRE-FABRICATED TRENCH DRAIN - PROVIDE 2" CHASE WITH JOINT SEALANT AROUND PERIMETER - REFER TO STRUCTURAL AND PLUMBING.
- STAND PIPE - REFER TO PLUMBING
- MASONRY OPENING - REFER TO DIMENSION PLAN AND ELEVATIONS FOR OPENING SIZE
- APPLIANCE - PROVIDED & INSTALLED BY OWNER
- 6" Ø x 4'-0" HIGH CONCRETE FILLED GALVANIZED STEEL PIPE BOLLARD
- SLOPED EPOXY FLOORING
- PORCELAIN TILE SHOWER WITH SHOWER PAN FLASHING AND FLOOR DRAIN. COORDINATE DEPRESSION IN CONCRETE FLOOR SLAB AS REQUIRED FOR FLUSH FLOOR FINISH.
- GROMMET IN COUNTERTOP
- ALTERNATE: LINE OF DECK ABOVE
- ADJUSTABLE SHELVING
- EYE WASH STATION
- LINE OF CLERESTORY ABOVE - REFER TO DETAIL 3/A3-01
- MOP RACK
- ELECTRICAL WATER COOLER - REFER TO MECH. & ELEC
- COMPRESSORS TO BE RELOCATED FROM STATION 1 - REFER TO MECH. & ELEC - OWNER TO RELOCATE
- EXTRACTOR PROVIDED BY OWNER - REFER TO MECH. & ELEC FOR PROVIDED CONNECTIONS.
- CLOSET WITH COAT RACK & SHELF
- DELEGATED DESIGN STAIR SYSTEM WITH 5' CLEAR REMOVABLE RAILING AT LANDING
- PPE CHARGING STATION - REFER TO SECTION DETAIL 7/A6-11
- TRANSITION RAMPED FLOOR - 1/2" PER 1'-0" SLOPE
- LINE OF ROOF EDGE BELOW
- SIGNAGE BY OWNER, CENTER WITH DOOR BELOW
- TRANSITION FROM FULL BET DEPTH STONE TO A 2" VENEER AT EXTERIOR LINE OF BUILDING BELOW
- LINE OF ENTRANCE SLAB - REFER TO STRUCTURAL
- WALL MOUNTED HOSE BIB - REFER TO PLUMBING
- LINE OF OVERHEAD DOOR IN OPEN POSITION - REFER TO DOOR SCHEDULE



Vestibule Clerestory Plan

1/8" = 1'-0"



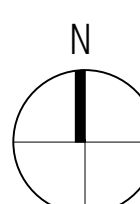
Clerestory Plan

1/8" = 1'-0"



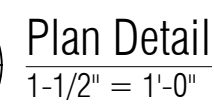
Mezzanine Level Floor Plan

1/8" = 1'-0"



Main Level Floor Plan

1/8" = 1'-0"



A3-02



GENERAL NOTES - TOILET ACCESSORIES

- A. REFER TO SPECIFICATION SECTION 102800 FOR DESCRIPTION OF TOILET ACCESSORIES.
- B. REFER TO MECHANICAL PLANS FOR ALL PLUMBING FIXTURES.
- C. CENTER FLOOR DRAIN IN ROOM UON. ENSURE 1/8" PER FOOT SLOPE TOWARD FLOOR DRAINS. (TYP.)
- D. PROVIDE WD BLOCKING SUPPORT AT ALL GRAB BAR LOCATIONS PER GRAB BAR MANUFACTURER'S RECOMMENDATION.

LEGEND - TOILET ACCESSORIES

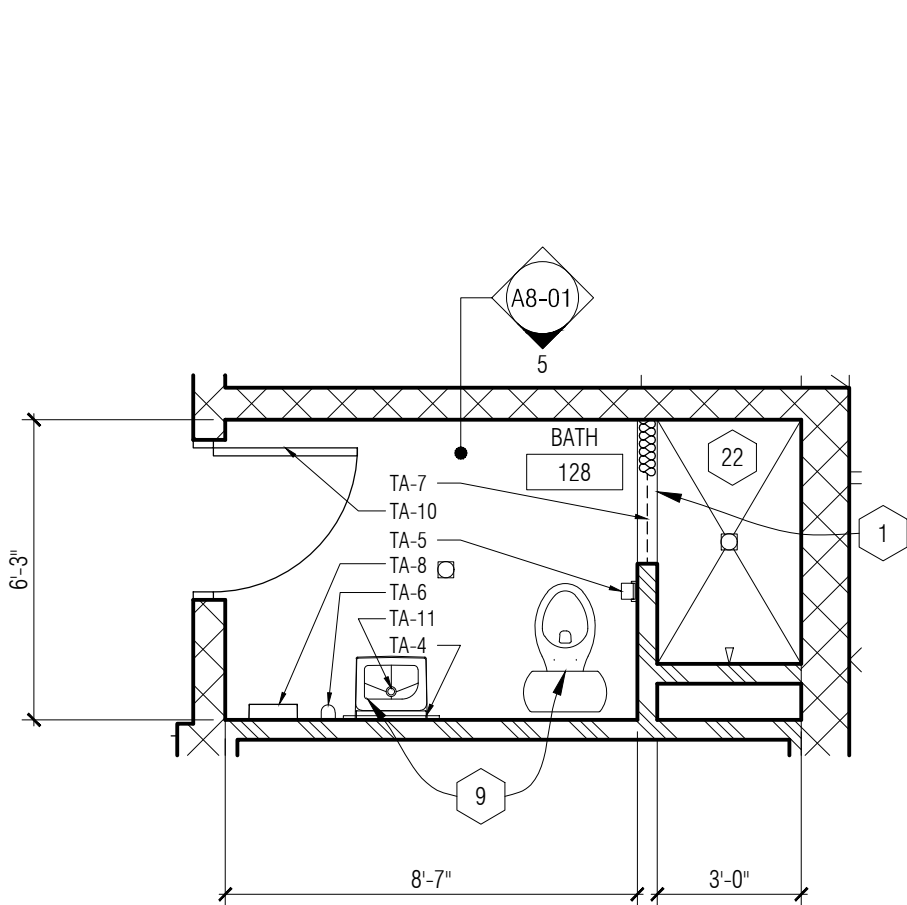
- TA-1 42" GRAB BAR
- TA-2 36" GRAB BAR
- TA-3 18" GRAB BAR - VERTICAL
- TA-4 WALL MOUNTED MIRROR
- TA-5 TOILET TISSUE DISPENSER - BY OWNER
- TA-6 SURFACE MOUNTED SOAP DISPENSER - BY OWNER
- TA-7 SHOWER CURTAIN ROD & HOOKS
- TA-8 PAPER TOWEL DISPENSER - BY OWNER
- TA-9 ELECTRIC HAND DRYER
- TA-10 TOWEL HOOK
- TA-11 LAVATORY GUARD
- TA-12 FREE STANDING WASTE RECEPTACLE (NOT SHOWN- PROVIDE 1 AT EACH RESTROOM)

FLOOR PLAN GENERAL NOTES:

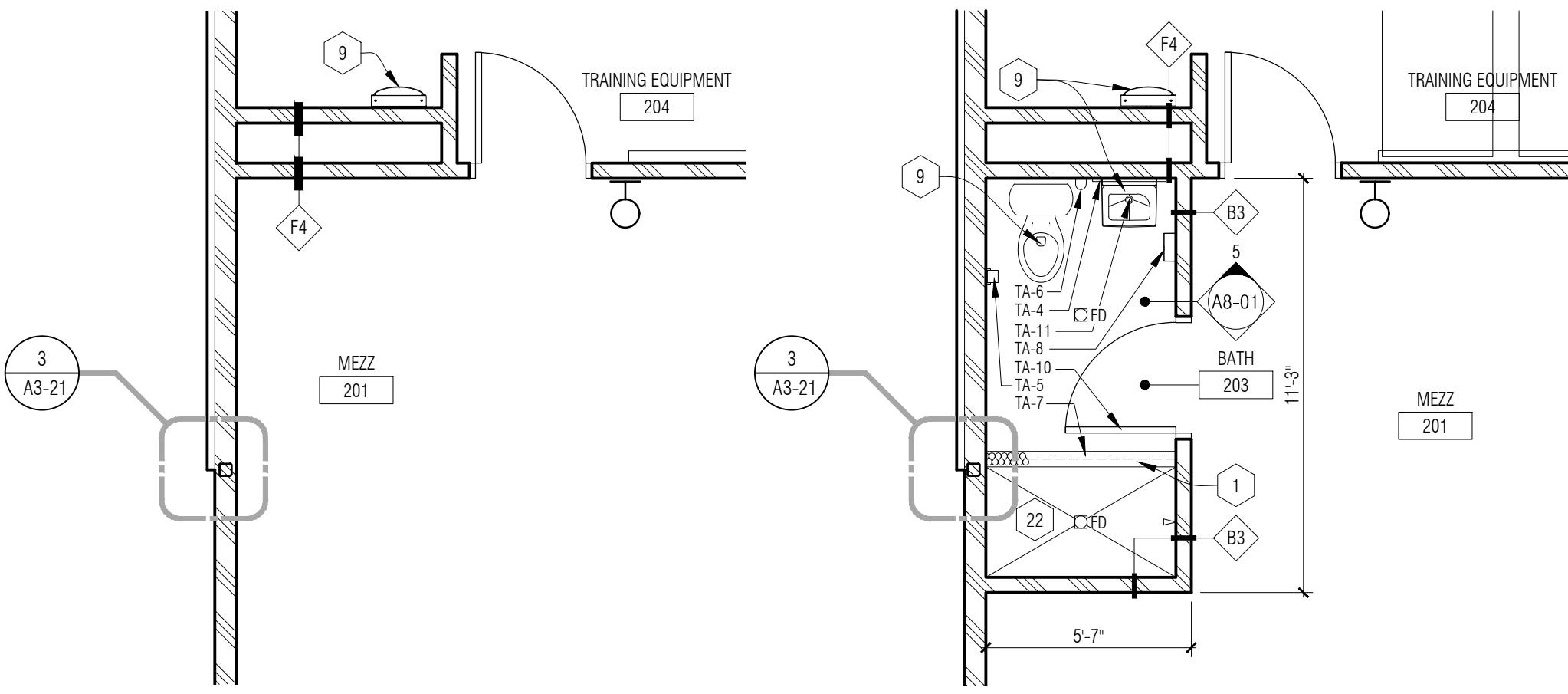
- A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL - WALL THICKNESS IS SHOWN AS NOMINAL. SEE WALL TYPES FOR ACTUAL THICKNESS.
- B. COORDINATE SIZE AND LOCATION OF ALL DUCT, SHAFT AND LOUVER OPENINGS IN WALLS AND FLOORS WITH MECHANICAL AND ELECTRICAL. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS.
- C. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- D. AT ALL LOCATIONS WHERE GYPSUM BOARD WALL INTERSECTS PERPENDICULAR TO MASONRY BLOCK WALL CORNER, THE GYPSUM BOARD IS TO BE SET BACK 1" FORM BULLNOSE OF BLOCK.
- E. AT FLOOR DRAIN LOCATIONS, SLOPE SLAB (-1") TO DRAIN LOCATION.

FLOOR PLAN KEY NOTES:

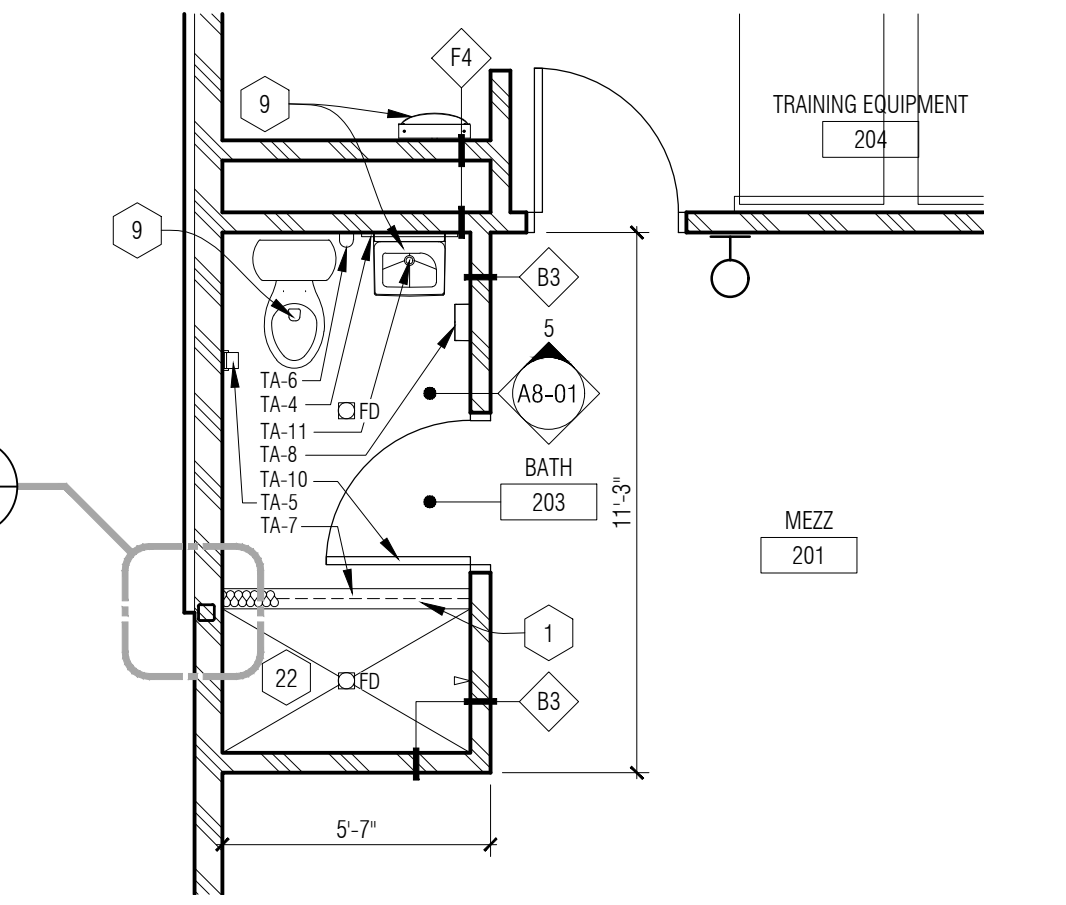
- 1 SOLID SURFACE TRANSITION AT SHOWER - REFER TO DETAIL T7 ON A0-14
- 2 THICKENED CONCRETE EQUIPMENT PAD, COORDINATE SIZE & LOCATION WITH MECH & ELEC EQUIPMENT
- 3 UNDER COUNTER DISHWASHER PROVIDED BY OWNER
- 4 DASHED LINE OF STONE SKIRTING AND SILL BELOW
- 5 TV BY OWNER - REFER TO ELEC
- 6 WASHER/DRYER PROVIDED BY OWNER - REFER TO MECH.
- 7 LINE OF FLOOR MATERIAL CHANGE - NO TRANSITION STRIP BETWEEN MATERIALS - REFER TO DETAIL T4 ON A0-14
- 8 HATCHED AREA OF MEZZANINE ABOVE
- 9 PLUMBING FIXTURE - REFER TO PLUMBING
- 10 WALL MOUNTED PPE STORAGE - REFER TO SPECIFICATIONS
- 11 REGENCY 18 GAUGE STAINLESS STEEL WORK TABLE - ITEM NUMBER: 600T2460G WITH NO UNDERSHELF
- 12 MILLWORK/CASEWORK - REFER TO INTERIOR ELEVATIONS
- 13 42" HIGH COUNTERTOP WITH BRACKETS
- 14 BASE BID: NO DECK
ALTERNATE #3: PRESSURE TREATED WOOD FLOOR DECK ON WOOD FLOOR CONSTRUCTION - REFER TO WALL SECTIONS AND STRUCTURAL.
- 15 MEZZANINE GUARD RAIL, TERMINATION, MOUNTING, AND STAIR GUARD / HAND RAIL MUST MAINTAIN LESS THAN 4" GAP AT STEEL VERTICAL POSTS
- 16 PRE-FABRICATED TRENCH DRAIN - PROVIDE 2" CHASE WITH JOINT SEALANT AROUND PERIMETER - REFER TO STRUCTURAL AND PLUMBING.
- 17 STAND PIPE - REFER TO PLUMBING
- 18 MASONRY OPENING - REFER TO DIMENSION PLAN AND ELEVATIONS FOR OPENING SIZE
- 19 APPLIANCE - PROVIDED & INSTALLED BY OWNER
- 20 6" Ø x 4'-0" HIGH CONCRETE FILLED GALVANIZED STEEL PIPE BOLLARD
- 21 SLOPED EPOXY FLOORING
- 22 PORCELAIN TILE SHOWER WITH SHOWER PAN FLASHING AND FLOOR DRAIN. COORDINATE DEPRESSION IN CONCRETE FLOOR SLAB AS REQUIRED FOR FLUSH FLOOR FINISH.
- 23 GROMMET IN COUNTERTOP
- 24 ALTERNATE: LINE OF DECK ABOVE
- 25 ADJUSTABLE SHELVING
- 26 EYE WASH STATION
- 27 LINE OF CLERESTORY ABOVE - REFER TO DETAIL 3/A3-01
- 28 MOP RACK
- 29 ELECTRICAL WATER COOLER - REFER TO MECH. & ELEC
- 30 COMPRESSORS TO BE RE LOCATED FROM STATION 1 - REFER TO MECH. & ELEC - OWNER TO RELOCATE
- 31 EXTRACTOR PROVIDED BY OWNER - REFER TO MECH. & ELEC FOR PROVIDED CONNECTIONS.
- 32 CLOSET WITH COAT RACK & SHELF
- 33 DELEGATED DESIGN STAIR SYSTEM WITH 5' CLEAR REMOVABLE RAILING AT LANDING
- 34 PPE CHARGING STATION - REFER TO SECTION DETAIL 7/A6-11
- 35 TRANSITION RAMPED FLOOR - 1/2" PER 1'-0" SLOPE
- 36 LINE OF ROOF EDGE BELOW
- 37 SIGNAGE BY OWNER, CENTER WITH DOOR BELOW
- 38 TRANSITION FROM FULL BET DEPTH STONE TO A 2" VENEER AT EXTERIOR LINE OF BUILDING BELOW
- 39 LINE OF ENTRANCE SLAB - REFER TO STRUCTURAL
- 40 WALL MOUNTED HOSE BIB - REFER TO PLUMBING
- 41 LINE OF OVERHEAD DOOR IN OPEN POSITION - REFER TO DOOR SCHEDULE



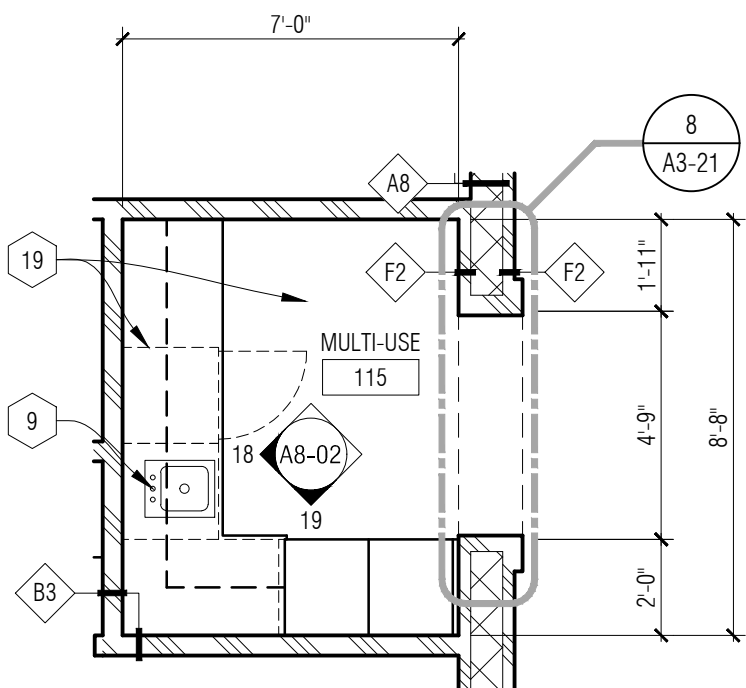
7
A3-01 Enlarged Plan - Bathroom 116
1/4" = 1'-0"



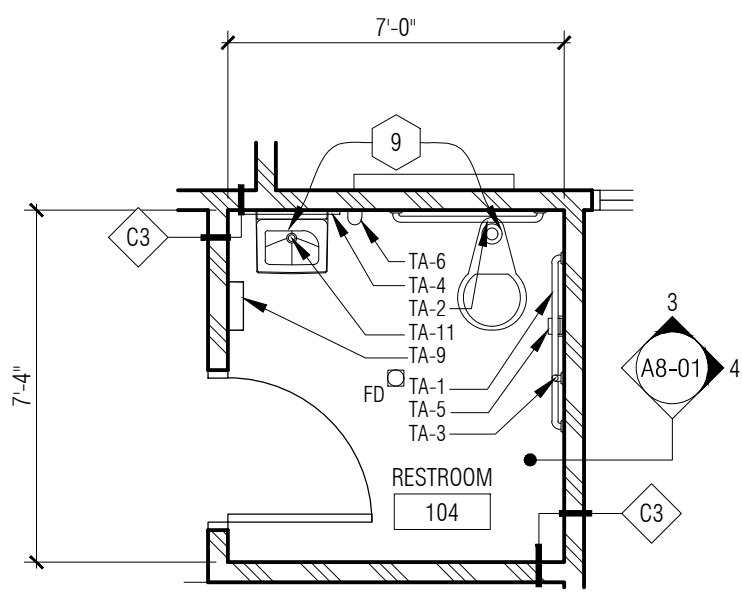
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A3-01 Mezzanine Level Enlarged Floor Plan - Base Bid
1/4" = 1'-0"



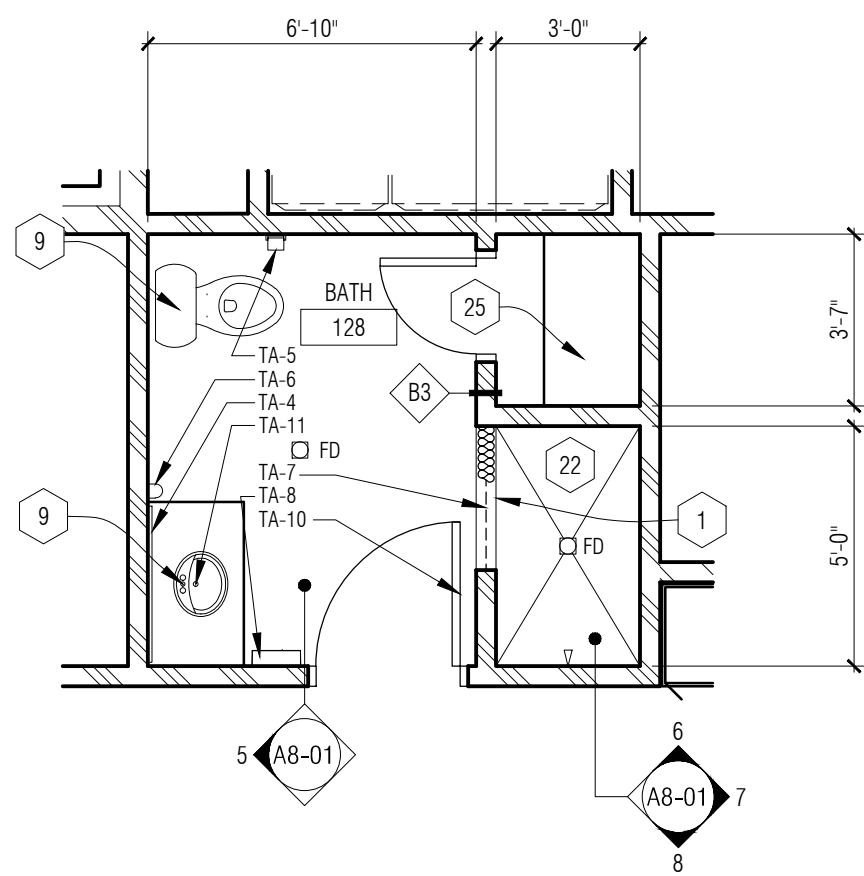
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A3-01 Mezzanine Level Enlarged Floor Plan - Alternate #2
1/4" = 1'-0"



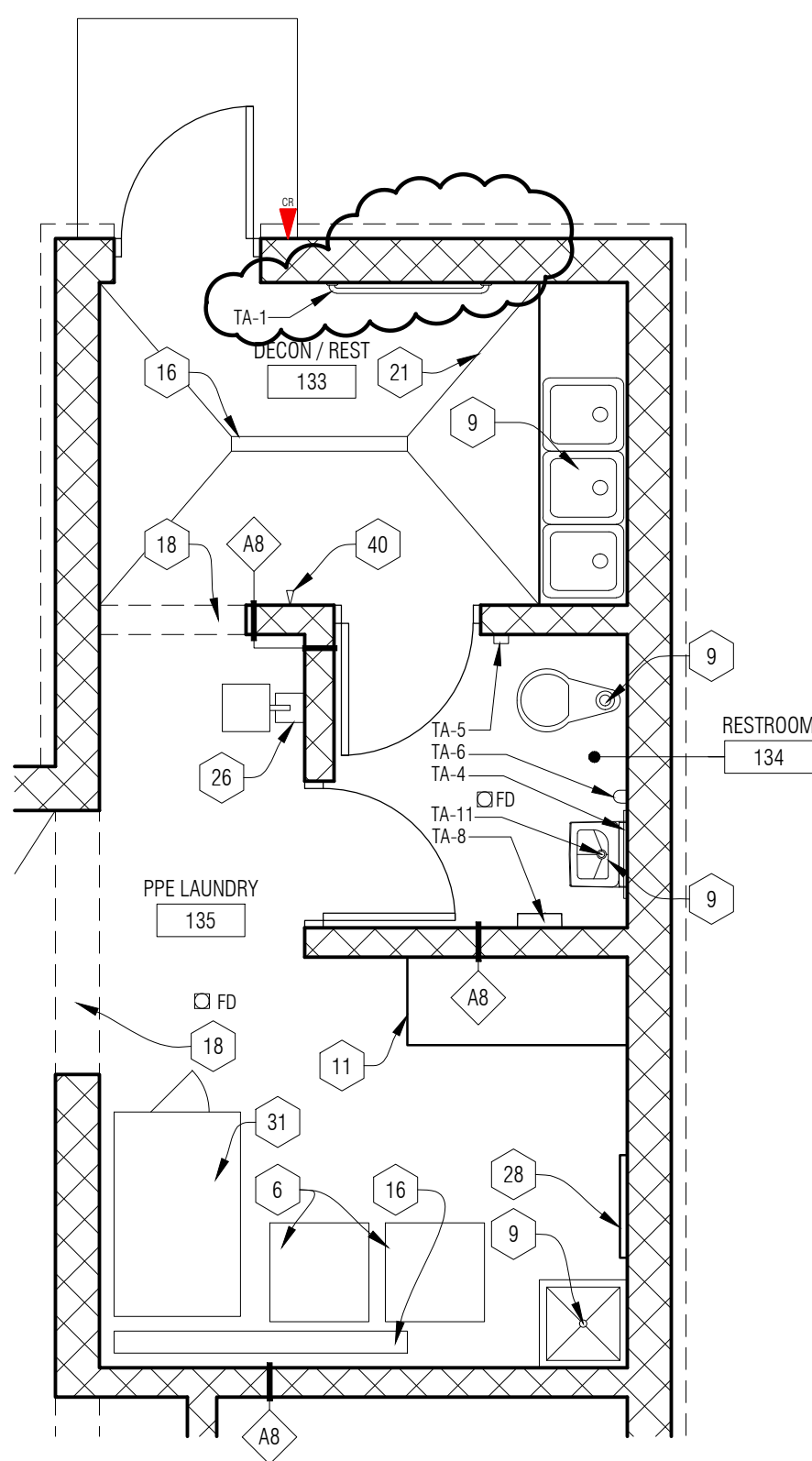
4
A3-01 Enlarged Plan - Multi-Use
1/4" = 1'-0"



3
A3-01 Enlarged Plan - Restroom 103 & 104
1/4" = 1'-0"



2
A3-01 Enlarged Plan - Bathroom 124 & 128
1/4" = 1'-0"



1
A3-01 Enlarged Plan - Decon Area
1/4" = 1'-0"

REFLECTED CEILING PLAN - GENERAL NOTES:

- REFER TO FLOOR PLANS FOR ROOM NAMES, NUMBERS AND ROOM DIMENSIONS.
- REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES AND SPECIFICATIONS.
- REFER TO MECHANICAL FOR DIFFUSERS, REGISTERS, AND RETURNS.
- ALL LIGHT FIXTURES ARE TO BE CENTERED WITHIN CEILING U.O.N.
- CEILING HEIGHT MEASURED FROM 100'-0" FINISH FLOOR.

REFLECTED CEILING PLAN - KEY NOTES:

- EXPOSED CEILING TO UNDERSIDE OF ROOF DECK - REFER TO ROOM FINISH SCHEDULE
- GYPSUM BOARD CEILING
- LINE OF OVERHEAD DOOR - REFER TO DOOR SCHEDULE
- GYPSUM BOARD CEILING / SOFFIT - REFER TO DETAIL 1/A4-02
- RECESSED CAN LIGHT FIXTURES - REFER TO ELECTRICAL
- WALL MOUNTED SIGN - REFER TO ELECTRICAL
- HOOD - REFER TO SPECIFICATIONS
- WALL COVERING SOFFIT ACCENT BAND - REFER TO DETAIL 6/A4-02 AND INTERIOR ELEVATIONS
- SUPPLY AIR DIFFUSER - REFER TO MECH
- IN GROUND LIGHT FIXTURE - REFER TO ELEC
- EXPOSED CONCRETE PLANK ABOVE - REFER TO ROOM FINISH SCHEDULE
- EXPOSED MECHANICAL DUCTWORK - PAINT TO MATCH CEILING, REFER TO MECH. AND ROOM FINISH SCHEDULE
- SUSPENDED MECH UNIT - REFER TO MECH
- GOOSENECK FIXTURE - REFER TO ELECTRICAL AND SPECIFICATIONS
- GYP. BOARD CEILING ON 1-1/2" HAT CHANNELS 16" O.C. MOUNTED TO UNDERSIDE OF STRUCTURE - REFER TO DETAIL 3/A4-02
- EXPOSED STRUCTURE - PAINT TO MATCH CEILING, REFER TO MECH. AND ROOM FINISH SCHEDULE
- LINE OF CUPOLA ABOVE - REFER TO PLAN (3/A4-01)
- CMU OPENING - REFER TO INTERIOR ELEVATIONS
- GYP. BOARD WALL BANDING W/ COVE LIGHTING - REFER TO DETAIL 4/A4-02
- GYP. BOARD FRAMING AROUND STRUCTURE - REFER TO BUILDING SECTIONS (A5-10)
- EXTERIOR WALL MOUNTED LIGHTING ABOVE DECK - REFER TO ALTERNATE #3
- EXTERIOR FIBER CEMENT SOFFIT (SD-4)
- UNDER CABINET LIGHT FIXTURE - REFER TO INTERIOR ELEVATIONS AND ELEC
- CEILING SUSPENDED TRACK LIGHTING - REFER TO ELEC
- MECH UNIT - REFER TO MECH.
- EXTERIOR METAL SOFFIT (MS-1)
- ROOF ACCESS HATCH
- EXTERIOR EMERGENCY LIGHTING MOUNTED TO TOP OF STOREFRONT FRAME - REFER TO ELEC.

Ceiling Symbols Legend

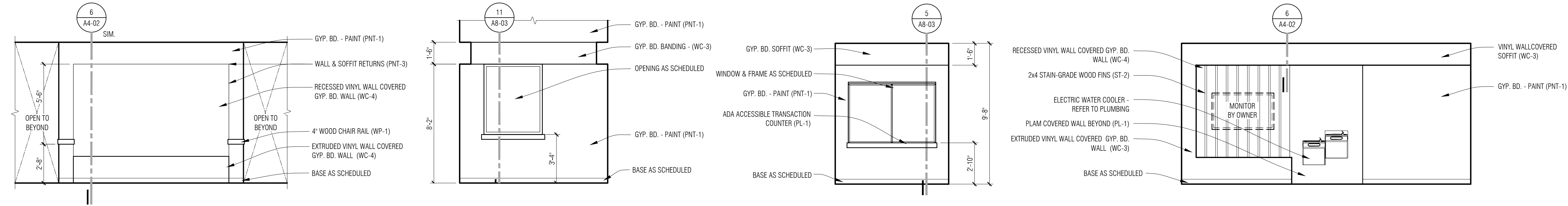
	5/8" GYP BD ON 3 5/8" MTL. STUD AT 16" O.C. SECURE TO STRUCTURE ABOVE AT 48" O.C. MAX EACH WAY
	LINEAR PENDANT FIXTURE
	2' X 4' LAY-IN LIGHT FIXTURE IN GRID
	SUPPLY AIR DIFFUSER (MECHANICAL)
	RETURN AIR GRILLE (MECHANICAL)
	HIGH BAY LIGHT FIXTURE
	6" RECESSED ROUND LIGHT FIXTURE
	6" RECESSED ROUND LIGHT WET FIXTURE
	PENDANT LIGHT FIXTURE
	EXTERIOR GARAGE LIGHT FIXTURE - WALL MOUNTED
	EXTERIOR LIGHT FIXTURE
	EXIT LIGHT - CEILING MOUNTED
	EXIT LIGHT - WALL MOUNTED
	VIDEO SURVEILLANCE CAMERA - COORD WITH TECH AND ELEC
	WIRELESS ACCESS POINT - COORD WITH TECH AND ELEC

4 Mezzanine Level Floor Plan - Base Bid
1/4" = 1'-0"

3 Cupola Reflected Ceiling Plan
1/8" = 1'-0"

2 Mezzanine Level Reflected Ceiling Plan
1/8" = 1'-0"

1 Main Level Reflected Ceiling Plan
1/8" = 1'-0"

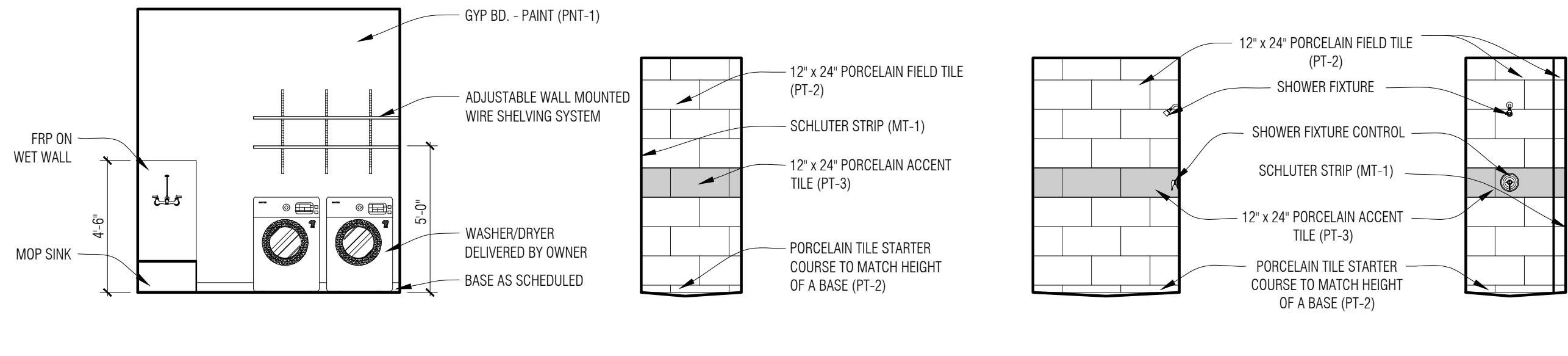


13 Passage 107
A3-01 1/4" = 1'-0"

12 Vestibule 101
A3-01 1/4" = 1'-0"

11 Lobby 102
A3-01 1/4" = 1'-0"

10 Lobby 102
A3-01 1/4" = 1'-0"



9 Laundry 118
A3-01 1/4" = 1'-0"

8 Bath - 124, 128, 116, 203
A3-01 1/4" = 1'-0"

7 Bath - 124, 128, 116, 203
A3-10 1/4" = 1'-0"

6 Bath - 124, 128, 116, 203
A3-10 1/4" = 1'-0"

5 Bath - 124, 128, 116 Sim, 203 Sim
A3-10 1/4" = 1'-0"

4 Restroom - 103, 104
A3-10 1/4" = 1'-0"

3 Restroom - 103, 104
A3-10 1/4" = 1'-0"

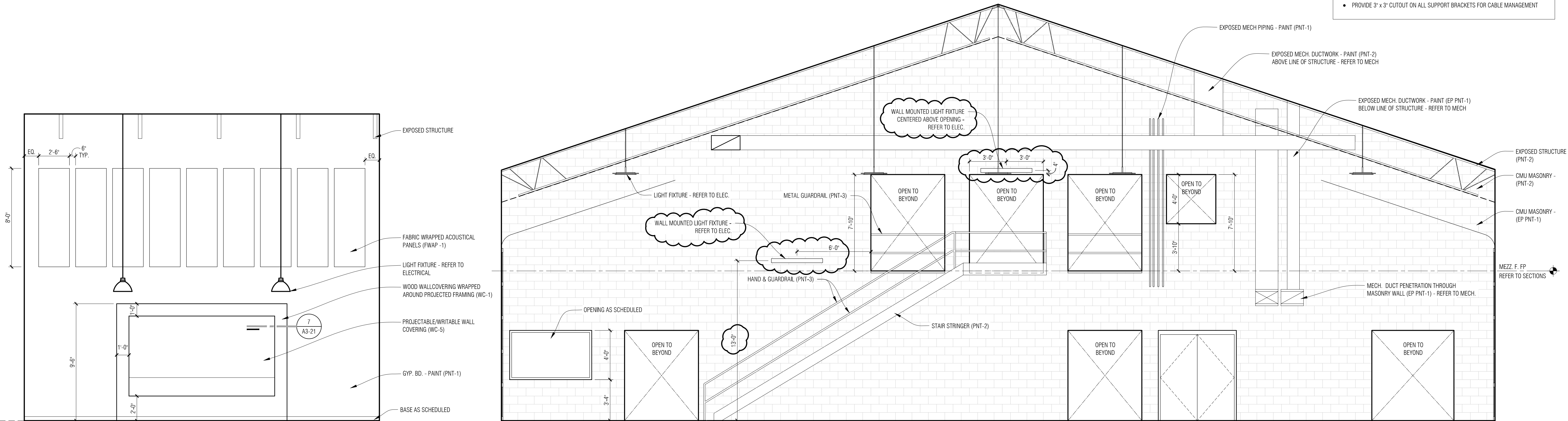
REFER TO ALTERNATE #2 FOR BATH 203

REFER TO ALTERNATE #2 FOR BATH 203

REFER TO ALTERNATE #2 FOR BATH 203

REFER TO ALTERNATE #2 FOR BATH 203

CASEWORK LEGEND	
CASEWORK MODEL NUMBERS ARE DERIVED FOR BASIS OF DESIGN FROM CASE SYSTEMS DESIGN CORPORATION	
BC-1	DOOR/DRAWER STORAGE - B3110 / B3120
BC-2	DOORS/DRAWERS STORAGE - B3100
BC-3	SINK CABINET W/DOORS - B2100
BC-4	FILE DRAWER STORAGE (THREE DRAWERS) - B4540
BC-5	BLIND CORNER STORAGE W/DOOR - B0220
BASE CABINETS	
WC-1	STORAGE W/ DOOR - W0110 OR W0120
WC-2	STORAGE W/ DOORS - W0100
WALL CABINETS	
TC-1	STORAGE W/ DOORS - T0100
STUDENT LOCKERS	
SL-1	THREE STUDENT LOCKER (L) - Z6210
SUPPORT BRACKETS	
SB-1	RADIUSED PLAM WALL MOUNT SUPPORT BRACKET - X0700/X0710/X0720
GENERAL NOTES:	
1. SOME TAGS ARE NOT USED ON THIS SHEET	
GENERAL CASEWORK NOTES:	
1. ALL EXPOSED SURFACES ARE TO BE FINISHED	
2. PROVIDE FINISHED FILLER PANELS AS REQUIRED AT ALL SPACES BETWEEN CABINETS AND BETWEEN CASEWORK AND WALLS	
3. CAULK AROUND ENTIRE PERIMETER OF ALL CABINETS AND COUNTERTOPS AT INTERSECTION OF DISIMILAR SURFACES	
4. BASE CABINET DEPTH IS TO BE 24" DEEP NOMINAL (U.O.N.). WALL CABINET DEPTH IS TO BE 14" DEEP NOMINAL (U.O.N.)	
5. REFER TO OTHER ELEVATIONS WITHIN THE SAME ROOM FOR SIMILAR APPLICABLE NOTES AND REQUIREMENTS	
6. WHERE COUNTER TOP ABUTS WALL, PROVIDE PAINTED WOOD CLEAT	
7. PROVIDE LIGHT VALANCES AT UPPER CABINETS WHERE UNDER CABINET LIGHTS ARE TO BE PROVIDED - COORD. W/ ELECTRICAL	
8. REFER TO MATERIAL FINISH/COLOR SCHEDULE (SPEC SECTION 000200) FOR LAMINATE (PL-#) COLORS	
9. SIZE ALL WALL MOUNT SUPPORT BRACKETS ACCORDING TO COUNTER DEPTH AND MANUFACTURER REOMENTS	
10. PROVIDE 3" x 3" CUTOUT ON ALL WALL MOUNT SUPPORT BRACKETS FOR CABLE MANAGEMENT	
SUPPORT BRACKET - MANUFACTURER: CASE SYSTEMS	
• CATALOG No. X0700/X0710/X0720 (U.O.N.)	
• DESCRIPTION: WALL MOUNT SUPPORT BRACKET	
• SIZE ALL SUPPORT BRACKETS ACCORDING TO COUNTER DEPTH AND MANUF. REQUIREMENTS	
• SPACE BRACKETS EVENLY BUT NOT TO EXCEED 48" O.C.	
• PROVIDE 3" x 3" CUTOUT ON ALL SUPPORT BRACKETS FOR CABLE MANAGEMENT	



2 Training Room 105
A3-01 1/4" = 1'-0"

1 Apparatus Bay 131
A3-01 1/4" = 1'-0"

PARTNERS



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CONSULTANT

KEY PLAN

OWNER

Highland Township
Fire Department

PROJECT NAME

Highland Township
Fire Station No. 1

1600 W. Highland Rd.
Highland, MI 48357

PROJECT NO.

18-122A

ISSUES / REVISIONS

Bidding - Construction	03/27/20
Addendum #1	04/20/20
Construction Set	05/04/20
CCD #4	09/01/20

DRAWN BY

AR

CHECKED BY

LL / AM

APPROVED BY

DG

SHEET NAME

INTERIOR
ELEVATIONS

SHEET NO.

A8-01

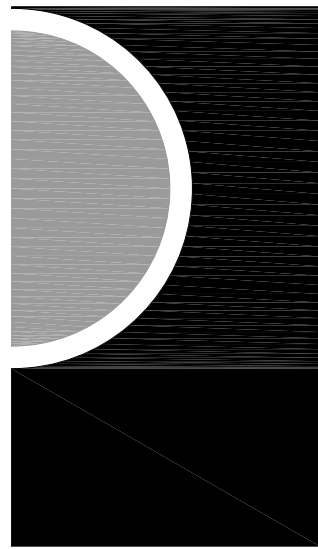
LIGHTING FIXTURE SCHEDULE:

- "A" LED RECESSED HIGH LUMEN 2'X4' TROFFER, 2.375" DEEP SHALLOW HOUSING, GRID CEILING MOUNTED, HIGH ANGLE LIGHTING DISTRIBUTION, CURVED LINEAR PRISM CENTER LENS WITH LOW GLARE, 120-277V, 0-10V DIMMING, 32W, 4000LM, 5500K
ORACLE #DVHP-LED-4000L-DIM10-MVOLT-35K-85 OR APPROVED EQUAL.
- "AE" SAME AS "A" EXCEPT WITH BUILT-IN EMERGENCY BATTERY BACK-UP, MIN. 14W TO PROVIDE 1400LM FOR 90 MINUTES.
- "B" LED COVE LIGHT, CONTINUOUS ROW PER ARCHITECTURAL DETAILS, EXTRUDED ALUMINUM HOUSING, 1.6" W X 1.4" H X L CLEAR POLYCARBONATE LENS, STAINLAESS STEEL FASTENERS, HIGH LUMEN PACKAGE PROVIDING 916 LM/FT, 3500K, 10 W/FT, 0-10V DIMMING, 277V
ECSSENSE TROY #J55-I-___10-35-90-MULTI-120-LDCM-PL-120-277-010V-GR OR APPROVED EQUAL.
- "C" LED SURFACE MOUNTED STRIP FIXTURE, (SURFACE MOUNTED ON CEILINGS AND PENDANT MOUNTED IN OPEN CEILING AREAS), 4' LONG SMALL PROFILE, 22 GAUGE CONSTRUCTION WITH WHITE FINISH, 120-277V INPUT VOLTAGE, 35W, 0-10V DIMMING AND 4000LM AT 3500K.
LITHONIA #C05-L48-MVOLT-DM-35-80CRI-WH OR APPROVED EQUAL.
- "CE" SAME AS "C" EXCEPT WITH REMOTE EMERGENCY BATTERY BACK-UP, MIN. 14W TO PROVIDE 1400LM FOR 90 MINUTES.
- "D" LED RECESSED DOWNLIGHT, 6" APERTURE, CLEAR SPECULAR LOW IRIDESCENT ALZK FINISH REFLECTOR AND WHITE TRIM, 120-277V INPUT VOLTAGE, 0-10V DIMMING CAPABILITY, 20W, 1500 LM WITH 3500K.
MAXILUME #HH6LED-1500L-MVOLT-35K-HH6-6501 OR APPROVED EQUAL.
- "D1" SAME AS TYPE "D" EXCEPT WET LOCATION SHOWER RATED LIGHTING FIXTURE.
- "D2" SAME AS TYPE "D" EXCEPT 46W, 4000 LM.
- "DE" SAME AS TYPE "D" WITH BUILT-IN EMERGENCY BATTERY BACK-UP, MIN. 10W TO PROVIDE 1000LM FOR 90 MINUTES.
- "EA" LED EMERGENCY WALL MOUNTED BATTERY LIGHTING UNIT, 12V NI-CAD BATTERY WITH (2)-6W LED LAMPS, WHITE FINISH, LIGHTALARMS OR APPROVED EQUAL.
- "F" LED WALL MOUNTED 4' LONG, HOUSING IS ROLL FORMED FROM CODE-GAUGE STEEL, DECORATIVE DIE-CAST END, FINISHED EDGES AND UNIFORM LIGHT DISTRIBUTION, 120-277V, 0-10V DIMMING DRIVER AND 19W, 2000 LUMENS, FIXTURE DIMS TO APPROXIMATELY 10% LIGHT OUTPUT WHEN UNOCCUPIED.
LITHONIA #WL4-20L-LZB-LP635-DIM10 OR APPROVED EQUAL.
- "FE" SAME AS "F" EXCEPT WITH ULT-IN EMERGENCY BATTERY BACK-UP, MIN. 14W TO PROVIDE 1400LM FOR 90 MINUTES.
- "G" IN GRADE 10" LED WALL WASH LIGHT, FLUSH WITH TOP OF FINISHED GRADE, BRUSHED STAINLESS STEEL, 5000K COLOR TEMP, 120-277V INPUT VOLTAGE, 20W, FLOOD DISTRIBUTION WITH FLAT LENS FROSTED.
HYDREL # PDX10-BSS-18LED-WHT30K-MVOLT-FL-FLCSR OR APPROVED EQUAL.
- "H" LED HIGH BAY FIXTURE, UL WET LOCATION LISTED AND DLC QUALIFIED, 13" DIAMETER, BLACK FINISH, CLEAR LENS, 19000 LUMENS, 4000K, 150W, UNIVERSAL VOLTAGE DRIVER, 0-10V DIMMING.
ORACLE #DHR11-LED-1500K-MVOLT-10-8K OR APPROVED EQUAL.
- "I" LED DECORATIVE PENDANT MOUNTED LIGHTING FIXTURE, DIE-CAST ALUMINUM HOUSING, ALUMINUM REFLECTOR, BLACK EXTERIOR AND WHITE INTERIOR REFLECTOR FINISH OR AS DIRECTED BY ARCHITECT/OWNER, FROSTED LENS HIGH LUM120V 0-10V DIMMING, 97W, 9697LM.
DELRAY LUMA PENDANT #IL793-K-W-H APPROVED EQUAL.
- "IE" SAME AS "I" EXCEPT WITH EMERGENCY BATTERY BACK-UP, MIN. 14W TO PROVIDE 1400LM FOR 90 MINUTES.
- "J" LED WALL MOUNTED AT 16" AFF OR AS DIRECTED BY ARCHITECT, LUMINAIRE, WET LOCATION LISTED, ALUMINUM HOUSING, GOOSENECK MOUNTING STYLE, FINISHED SELECTED BY ARCHITECT/OWNER, 120V 0-10V DIMMING, 24W 5000LM.
MBVA14-M024LDD-W-41-UNV SERIES OR APPROVED EQUAL.
- "K" LED DECORATIVE PENDANT MOUNTED LIGHTING FIXTURE, 0-10V DIMMING. 120V AND MAX. 30W. FINISHED SELECTED BY ARCHITECT/OWNER.
BARN LIGHT ELECTRIC CO, "WILCOX" SERIES:
BLE-C-DBW12-100-SBK-100-SBK-NA-NA-LED27-3500K-FL OR APPROVED EQUAL.
- "L" LED WALL MOUNTED LUMINAIRE, WET LOCATION LISTED, ALUMINUM HOUSING, ALUMINUM DOOR FRAME WITH FLAT CLEAR POLYCARBONATE LENS, FULLY GASKETED, SHARP CUT-OFF WITH MEDIUM THROW DISTRIBUTION, 120V ELECTRONIC BALLAST, 42W TRT LAMP, BUILT-IN PHOTOCELL, BRONZE FINISH, MOUNT AT 18"-0" AFF OR AS DIRECTED BY ARCHITECT.
LITHONIA #W51-LED-P2-40K-VF-MVOLT-PE-DBDXX OR APPROVED EQUAL.
- "LE" LED WALL MOUNTED LUMINAIRE, WET LOCATION LISTED, ALUMINUM HOUSING, ALUMINUM DOOR FRAME WITH FLAT CLEAR POLYCARBONATE LENS, FULLY GASKETED, SHARP CUT-OFF WITH MEDIUM THROW DISTRIBUTION, 120V ELECTRONIC BALLAST, 42W TRT LAMP, BUILT-IN PHOTOCELL AND EMERGENCY BALLAST, BRONZE FINISH, MOUNT AT 18"-0" AFF OR AS DIRECTED BY ARCHITECT.
LITHONIA #W51-LED-P2-40K-VF-MVOLT-PE-47WH-DBDXX OR APPROVED EQUAL.
- "M" LED DECORATIVE TRACK LIGHTING FIXTURE, 4FT LONG TRACK, SINGLE CIRCUIT, BLACK FINISH, CONE TRACK HEAD, BLACK FINISH, UNIVERSAL NARROW FLOOD AND FLOOR DISTRIBUTION, 120V, LOW LED, 800 LUMENS, INTEGRATED DIMMING DRIVER, PROVIDE ALL MOUNTING HARDWARE, CONNECTORS, POWER SUPPLIES, ETC. AS REQUIRED, COORDINATE WITH ARCHITECT FOR MOUNTING TYPE AND HEIGHTS.
JUNO TRAC-MASTER #T4T-BL AND #600L-C2-FDWM-LINF-BL SERIES OR APPROVED EQUAL.
- "N" LED UNDER CABINET LIGHTING FIXTURE, 9' 18" 24, 36", 48" LONG, PROVIDE FOR CONTINUOUS ROW AS INDICATED ON PLANS, FROSTED LENS, ALUMINUM FRAME 120-277V, HPF ELECTRONIC DIMMING DRIVER, MAX. 7W/FT, 330LM/FT.
HALO HUTO #HUTO24D930P OR APPROVED EQUAL.
- "OE" LED OUTDOOR WALL MOUNTED LIGHTING FIXTURE, 30.8" LONG, WET LOCATION RATED, ALUMINUM HOUSING, MULLION MOUNTABLE FULL CUT-OFF, 120-277V HPF ELECTRONIC DRIVER LOW TEMPERATURE RATED, 20W LED AND REMOTE EMERGENCY BATTERY PACK 1000LM FOR 90 MIN, LOCATE BATTERY INDOOR ABOVE ACCESSIBLE CEILING.
LUMINAIRE LED BLADE SERIES #BLD-24IN-20W-MVOLT-EMB20R OR APPROVED EQUAL.
- "X" LED EXIT SIGN, SINGLE FACE, POLYCARBONATE HOUSING CONSTRUCTION, UNIVERSAL DIRECTIONAL ARROW KNOCKOUTS, FULLY OVERLAPPING LIGHT SEAL 8" HIGH RED LETTERS 25 YEAR LIFE LED LAMPS, 277 VOLT INPUT, 6 VOLT SEALED MAINTENANCE-FREE BATTERY 90 MINUTE.
LIGHTALARMS #QLXNS00-R OR APPROVED EQUAL.
- "X1" SAME AS "X" EXCEPT COMBO UNIT WITH (2)-SIDE MOUNTED HEADS AND 24W EXTRA BATTERY REMOTE CAPACITY.
LIGHTALARMS #GR624M-R-U-2-LD1 OR APPROVED EQUAL.
- "X2" SAME AS "X" EXCEPT EDGE LIT COMBO UNIT WITH (2)-HIGH OUTPUT LED HEADS, VERIFY EXACT MOUNTING.
LIGHTALARMS #BNYC3RM-2HO OR APPROVED EQUAL.

LIGHTING CONTROL MATRIX SCHEDULE													
LIGHTING CONTROL TAB	ROOM/SPACE TYPE	CONTROLS	AUTOMATIC LIGHTING CONTROL	LOCAL CONTROL	MANUAL ON	PARTIAL AUTO ON	IR-LEVEL	DAYLIGHT TOP LIGHT	AUTOMATIC PARTIAL OFF (N APPLIES)	AUTOMATIC FULL OFF	SCHEDULED FULL OFF	NOTES	
LC1	COMMUNITY/ KITCHEN/ LAUNDRY/ OFFICE	LOCAL/OS/ DM	OCCUPANCY SENSOR	YES	YES		YES	*	NO	YES		* DAYLIGHT SENSORS AS REQUIRED	
LC2	FITNESS ROOM/ LIBRARY/ COMPUTER ROOM	LOCAL/OS/ DM	OCCUPANCY SENSOR	YES	YES		YES	*	NO	YES		* DAYLIGHT SENSORS AS REQUIRED	
LC3	CORRIDOR	LOCAL	RELAY PANEL TIMER (TIME CLOCK)	YES	NO	NO	NO		YES		YES	REMOTE LOCAL CONTROLS FOR THE SAFETY OF THE RESIDENTS	
LC4	STAIRS	PARTIAL DM	OCCUPANCY SENSOR	YES	NO	NO	YES		YES	NO		OCC. SENSOR TO DIM STAIR LIGHTING FIXTURES TO 50%	
LC5	UTILITY ROOM (ELEC./MECH./IT)	LOCAL	NONE	YES	YES	NO	NO		NO	NO	NO		
LC6	STORAGE/ EQUIPMENT ROOM	LOCAL/OS	OCCUPANCY SENSOR	YES	YES		NO		NO	YES			
LC7	LOBBY/ RECEPTION/ SEATING	LOCAL/DM	RELAY PANEL TIMER (TIME CLOCK)	YES	NO	NO	NO	*			YES	* DAYLIGHT SENSORS AS REQUIRED	
LC8	RESTROOM/TRASH ROOM	LOCAL/OS	OCCUPANCY SENSOR	YES	NO	NO	NO		NO	YES			
LIGHTING CONTROL NOTES:													
1. CONTRACTOR TO PROVIDE MOTION SENSORS, DAYLIGHT SENSORS, ROOM CONTROLLERS, AND ACCESSORIES AS REQUIRED FOR A FULLY OPERATIONAL INSTALLATION PER 2015 MICHIGAN ENERGY CODE. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL ROOM CONTROLLER/POWER PACKS AND ASSOCIATED WIRING FOR MULTIPLE SWITCH LEG LOCATIONS. SEE PLANS FOR EXACT SWITCH LEGS WITH-IN EACH AREA OR ROOM.													
2. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING CONTROL MANUFACTURER'S DEVICE LAYOUT AS PART OF SHOP DRAWINGS SUBMITTALS.													
3. ELECTRICAL CONTRACTOR IS TO INCLUDE THE SCOPE OF A LIGHTING CONTROLS DESIGNER/INSTALLER AS SUBCONTRACTOR TO ELECTRICAL CONTRACTOR TO PROVIDE FINAL DESIGN, DOCUMENTATION, PROGRAMMING, AND INSTALLATION OF THE LIGHTING CONTROLS. CONTRACT DOCUMENTS INCLUDE INTENDED FUNCTIONALITY ONLY.													
4. TO PREVENT FALSE ACTIVATION, MOUNT CEILING MOUNT SENSORS AWAY FROM DIFFUSERS AND THE PATH OF STRONG AIR TURBULENCE A MINIMUM OF FOUR FEET FOR STANDARD SENSITIVITY AND SIX FEET FOR MAXIMUM SENSITIVITY.													
5. LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF (COVERAGES) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE ONE HUNDRED (100%) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE ALL OCCUPANCY HOURS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S).													
6. PROVIDE THE QUANTITY OF ROOM CONTROLLERS AND POWER PACKS NEEDED TO CONTROL SWITCH LESS AND VOLTAGES INDICATED.													
7. UNLESS OTHERWISE INDICATED, ADJUST MOTION SENSOR TIME TO TURN OFF CONTROLLED LIGHTING AFTER 20 MINUTES.													
8. INCLUDE TESTING BY AN INDEPENDENT THIRD PARTY TESTING AGENCY OR INDEPENDENT COMMISSIONING AGENT AS REQUIRED BY THE MICHIGAN ENERGY CODE (ASHRAE 90.1-2013). TEST, CERTIFY AND PROVIDE DOCUMENTATION OF LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANSI/ASHRAE/IES STANDARD 90.1-2013, SECTION 9.4.3 FUNCTION TESTING).													
9. PROVIDE DAY LIGHT SENSORS WHERE LIGHTING FIXTURES FALL WITHIN TOP/SIDE LIGHTED AREAS FOR BOTH PRIMARY AND SECONDARY ZONES AS DEFINED BY ASHRAE 90.1-2013, SECTION 9.4.1.1-a AND SECTION 9.4.1.1-f.													
10. INTEGRATE CONTROLS FOR UNDERCABINET LIGHTING TO PROVIDE AS MANUAL ON/AUTOMATIC OFF BY SAME SENSOR(S) SERVING GENERAL LIGHTING IN SPACE/ROOM.													
11. IN ROOMS WITH PARTIAL OR CONTINUAL PROGRAM ASSOCIATED SWITCH FOR FULL ON AND MANUAL OFF IN ADDITION TO AUTOMATIC OFF VIA OCCUPANCY SENSOR.													
12. FOR AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS SET DAYLIGHT SENSOR TO MAINTAIN THE SAME LIGHTING LEVELS AS THE LEVELS OUTSIDE THE DAYLIGHT AREA.													

CONDUIT & WIRE SCHEDULE (600V & BELOW)					
3-WIRE SYSTEM			4-WIRE SYSTEM		
WIRE TAG	CU/AL	CONDUIT & WIRE	WIRE TAG	CU/AL	CONDUIT & WIRE
20X	CU	3/4"C. 3#12 + 1#12G.	20	CU	3/4"C. 4#12 + 1#12G.
25X	CU	3/4"C. 3#10 + 1#10G.	25	CU	3/4"C. 4#10 + 1#10G.
30X	CU	3/4"C. 3#10 + 1#10G.	30	CU	3/4"C. 4#10 + 1#10G.
35X	CU	3/4"C. 3#8 + 1#10G.	35	CU	3/4"C. 4#8 + 1#10G.
40X	CU	3/4"C. 3#8 + 1#10G.	40	CU	3/4"C. 4#8 + 1#10G.
50X	CU	1"C. 3#6 + 1#10G.	50	CU	1"C. 3#6 + 1#10G.
55X	CU	3/4"C. 3#6 + 1#10G.	55	CU	3/4"C. 4#6 + 1#10G.
60X	CU	1 1/4"C. 3#4 + 1#10G.	60	CU	1 1/4"C. 4#4 + 1#10G.
70X	CU	1 1/4"C. 3#4 + 1#8G.	70	CU	1 1/4"C. 4#4 + 1#8G.
85X	CU	1 1/4"C. 3#3 + 1#8G.	85	CU	1 1/4"C. 4#3 + 1#8G.
100X	CU	1 1/4"C. 3#2 + 1#8G.	100	CU	1 1/4"C. 4#2 + 1#8G.
	AL	2"C. 3#1/0 + 1#6G.		AL	2"C. 4#1/0 + 1#6G.
110X	CU	1 1/2"C. 3#1 + 1#6G.	110	CU	1 1/2"C. 4#1 + 1#6G.
	AL	2"C. 3#10 + 1#4G.		AL	2"C. 4#10 + 1#4G.
125X	CU	2"C. 3#1/0 + 1#6G.	125	CU	2"C. 4#1/0 + 1#6G.
	AL	2"C. 3#2/0 + 1#4G.		AL	2"C. 4#2/0 + 1#4G.
150X	CU	2"C. 3#1/0 + 1#6G.	150	CU	2"C. 4#1/0 + 1#6G.
	AL	2"C. 3#3/0 + 1#4G.		AL	2"C. 4#3/0 + 1#4G.
175X	CU	2"C. 3#2/0 + 1#6G.	175	CU	2"C. 4#2/0 + 1#6G.
	AL	2 1/2"C. 3#4/0 + 1#4G.		AL	2 1/2"C. 4#4/0 + 1#4G.
200X	CU	2"C. 3#3/0 + 1#6G.	200	CU	2"C. 4#3/0 + 1#6G.
	AL	3"C. 3#250KCMIL + 1#4G.		AL	3"C. 4#250KCMIL + 1#4G.
225X	CU	2 1/2"C. 3#4/0 + 1#4G.	225	CU	2 1/2"C. 4#4/0 + 1#4G.
	AL	3"C. 3#300KCMIL + 1#2G.		AL	3"C. 4#300KCMIL + 1#2G.
250X	CU	3"C. 3#250KCMIL + 1#4G.	250	CU	3"C. 4#250KCMIL + 1#4G.
	AL	3"C. 3#350KCMIL + 1#2G.		AL	3"C. 4#350KCMIL + 1#2G.
300X	CU	3"C. 3#350KCMIL + 1#4G.	300	CU	3"C. 4#350KCMIL + 1#4G.
	AL	4"C. 3#500KCMIL + 1#2G.		AL	4"C. 4#500KCMIL + 1#2G.
350X	CU	4"C. 3#500KCMIL + 1#3G.	350	CU	4"C. 4#500KCMIL + 1#3G.
	AL	(2) 2 1/2"C. EA/W 3#4/0 + 1#1G.		AL	(2) 2 1/2"C. EA/W 4#4/0 + 1#1G.
400X	CU	4"C. 3#600KCMIL + 1#3G.	400	CU	4"C. 4#600KCMIL + 1#3G.
	AL	(2) 3"C. EA/W 3#250KCMIL + 1#1G.		AL	(2) 3"C. EA/W 4#250KCMIL + 1#1G.
450X	CU	(2) 2 1/2"C. EA/W 3#4/0 + 1#2G.	450	CU	(2) 2 1/2"C. EA/W 4#4/0 + 1#2G.
	AL	(2) 3"C. EA/W 3#300KCMIL + 1#1/0G.		AL	(2) 3"C. EA/W 4#300KCMIL + 1#1/0G.
500X	CU	(2) 3"C. EA/W 3#250KCMIL + 1#2G.	500	CU	(2) 3"C. EA/W 4#250KCMIL + 1#2G.
	AL	(2) 3"C. EA/W 3#350KCMIL + 1#1/0G.		AL	(2) 3"C. EA/W 4#350KCMIL + 1#1/0G.
600X	CU	(2) 3"C. EA/W 3#350KCMIL + 1#1G.	600	CU	(2) 3"C. EA/W 4#350KCMIL + 1#1G.
	AL	(2) 4"C. EA/W 3#500KCMIL + 1#2/0G.		AL	(2) 4"C. EA/W 4#500KCMIL + 1#2/0G.
700X	CU	(2) 4"C. EA/W 3#500KCMIL + 1#1/0G.	700	CU	(2) 4"C. EA/W 4#500KCMIL + 1#1/0G.
	AL	(3) 3"C. EA/W 3#350KCMIL + 1#3/0G.		AL	(3) 3"C. EA/W 4#350KCMIL + 1#3/0G.
800X	CU	(2) 4"C. EA/W 3#600KCMIL + 1#1/0G.	800	CU	(2) 4"C. EA/W 4#600KCMIL + 1#1/0G.
	AL	(3) 4"C. EA/W 3#500KCMIL + 1#3/0G.		AL	(3) 4"C. EA/W 4#500KCMIL + 1#3/0G.
1000X	CU	(3) 3"C. EA/W 3#400KCMIL + 1#2/0G.	1000	CU	(3) 3"C. EA/W 4#400KCMIL + 1#2/0G.
	AL	(3) 4"C. EA/W 3#600KCMIL + 1#4/0G.		AL	(3) 4"C. EA/W 4#600KCMIL + 1#4/0G.
1200X	CU	(3) 4"C. EA/W 3#600KCMIL + 1#3/0G.	1200	CU	(3) 4"C. EA/W 4#600KCMIL + 1#3/0G.
	AL	(4) 4"C. EA/W 3#500KCMIL + 1#250KCMIL G.		AL	(4) 4"C. EA/W 4#500KCMIL + 1#250KCMIL G.
1600X	CU	(4) 4"C. EA/W 3#600KCMIL + 1#4/0G.	1600	CU	(4) 4"C. EA/W 4#600KCMIL + 1#4/0G.
	AL	(5) 4"C. EA/W 3#600KCMIL + 1#350KCMIL G.		AL	(5) 4"C. EA/W 4#600KCMIL + 1#350KCMIL G.
GENERAL WIRING NOTES:					
1. FOR 2-WIRE SYSTEMS USE Y AS SUFFIX, SIMILAR TO X FOR THE 3-WIRE SYSTEM.					
2. THE USE OF ALUMINUM WIRES HAVE TO BE APPROVED BY THE ENGINEER AND OWNER PRIOR TO BID, NO ALUMINUM WIRES ALLOWED FOR 100A AND LESS.					

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CONSULTANT



OWNER

Green Oak Charter Township

PROJECT NAME

Green Oak Fire Station No. 81

9384 Whitmore Lake Road
Brighton, MI 48116

PROJECT NO.

19-129

ISSUES / REVISIONS

CCD #4 09-01-2020

DRAWN BY

NH

CHECKED BY

EK

APPROVED BY

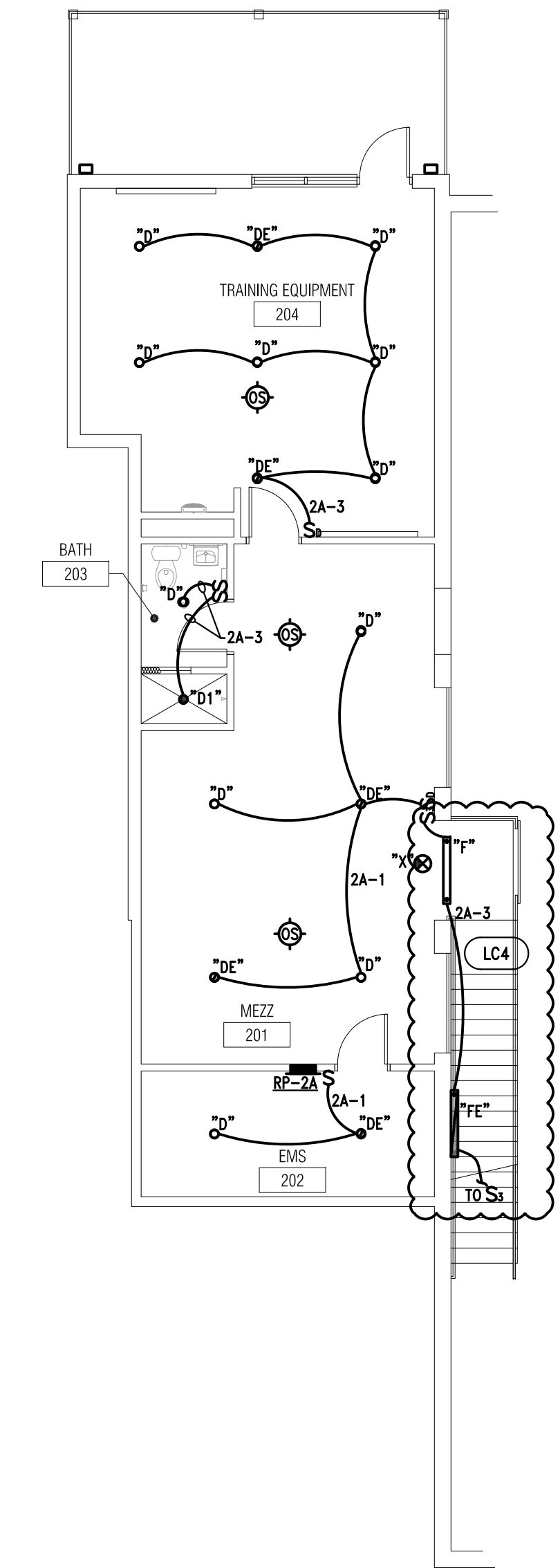
EK

SHEET NAME

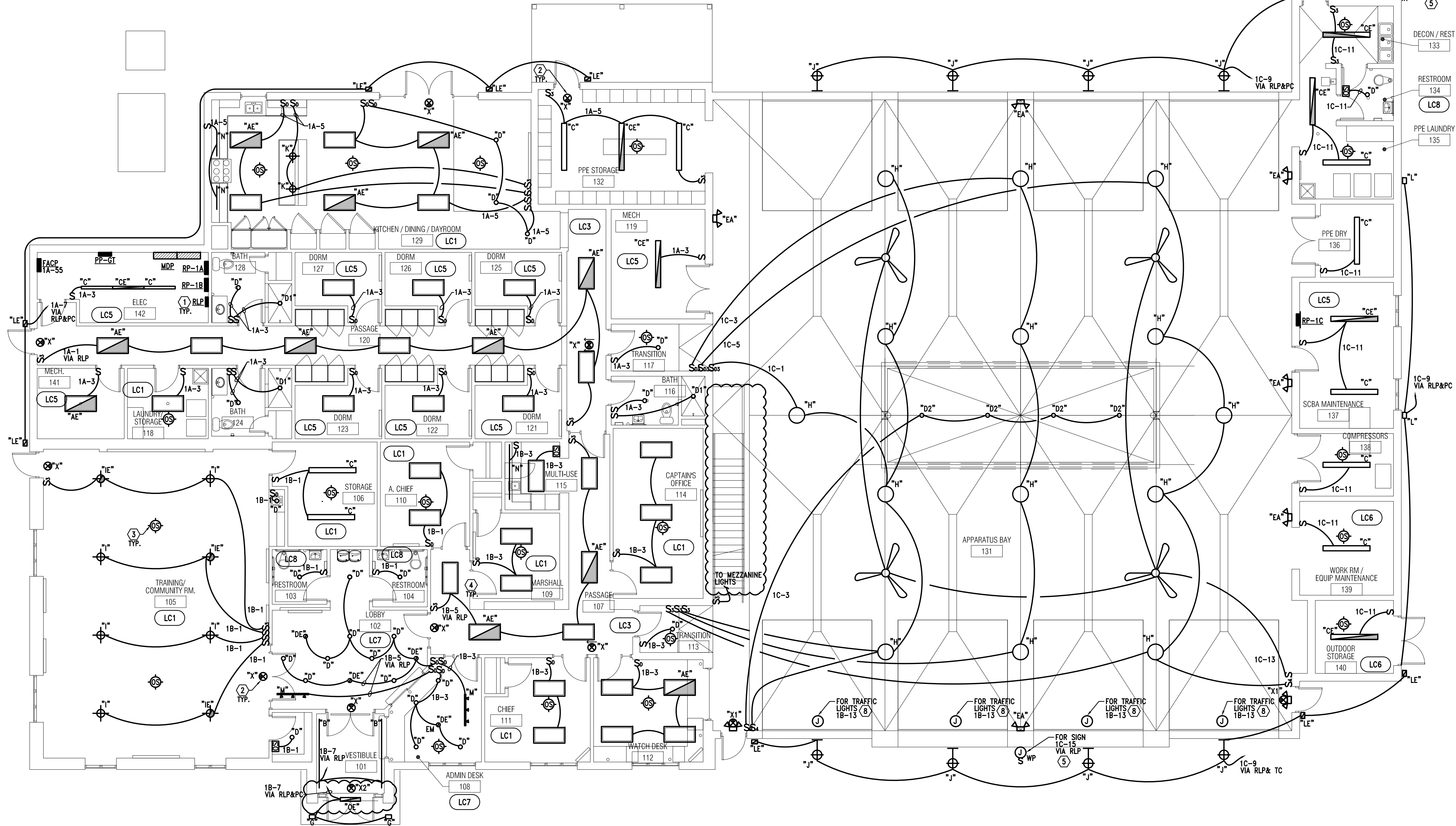
WIRE AND LIGHTING
FIXTURE SCHEDULES
AND CONTROL MATRIX

SHEET NO.

E0-03



2 Mezzanine Level Floor Plan - Lighting
1/8" = 1'-0"



1 Main Level Floor Plan - Lighting
1/8" = 1'-0"

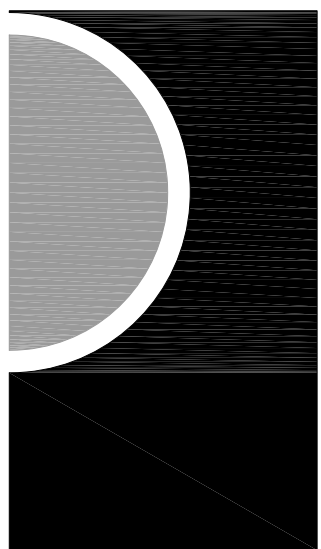
KEYED LIGHTING NOTES:

1. PROVIDE RELAY PANELS OVERRIDE SWITCHES. LOCATIONS SHALL BE COORDINATED WITH ARCHITECT/OWNER.
2. ALL EXIT LIGHTS, BUILT-IN EMERGENCY BATTERY UNITS AND FIXTURES WITH BUILT-IN EMERGENCY BATTERY BACK-UP SHALL BE WIRED TO ROOM OR AREA NORMAL LIGHTING CIRCUIT AHEAD OF LOCAL AND AUTOMATIC LIGHTING CONTROL.
3. PROVIDE OCCUPANCY SENSORS AS REQUIRED. DEVICES INDICATED ARE FOR REFERENCE ONLY. REFER TO GENERAL NOTE-D AND SPECIFICATIONS.
4. VIA RLP MEANS THAT LIGHTING CIRCUIT IS CONTROLLED VIA RELAY PANEL, REFER TO GENERAL LIGHTING NOTE-E ABOVE.
5. PROVIDE WP J-BOX WITH SWITCH FOR OUTDOOR SIGNS. EXACT LOCATIONS, QUANTITIES AND REQUIREMENTS TO BE VERIFIED WITH OWNER AND SIGN MANUFACTURER.
6. PROVIDE LIGHTING CONTROL STATIONS TO CONTROL LIGHTING IN COMMON AREAS. AS INDICATED. EXACT LOCATION OF LIGHTING CONTROL STATIONS TO BE COORDINATED WITH INTERIOR DESIGNER & ARCHITECT/OWNER PRIOR TO ROUGH IN.
7. PROVIDE LINE/LOW VOLTAGE SWITCHES AND OVERRIDES FOR ROOMS/AREAS WIRED VIA THE LIGHTING CONTROL RELAY PANEL.
8. PROVIDE TRAFFIC LIGHTS AND CONTROLS. COORDINATE WITH ARCHITECT/OWNER FOR EXACT REQUIREMENTS. EXACT LOCATIONS FOR TRAFFIC LIGHTS AND ASSOCIATED CONTROLS TO BE AS DIRECTED BY ARCHITECT/OWNER. CONTROLS NOT INDICATED ON PLAN, INFORMATION INDICATED IS FOR REFERENCE ONLY.

GENERAL LIGHTING NOTES:

- A. ALL LIGHTING FIXTURES INDICATED ON THESE PLANS ARE TYPE "A" UNLESS OTHERWISE NOTED.
- B. REFER TO SHEET E.001 FOR ELECTRICAL LEGEND AND SHEET E.003 FOR LIGHTING FIXTURE SCHEDULE AND SHEET E.003 FOR LIGHTING CONTROL MATRIX.
- C. REFER TO SPECIFICATIONS FOR ADDITIONAL LAMP AND BALLAST REQUIREMENTS.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS AND SECTIONS FOR EXACT LOCATION OF ALL CEILING, PENDANT & WALL MOUNTED LIGHTING FIXTURES.
- E. ALL EXIT LIGHTS AND EMERGENCY LIGHTS (EM) SHALL BE WIRED TO ROOM OR AREA NORMAL LIGHTING CIRCUIT AHEAD OF LOCAL CONTROLS. SEE KET NOTE THIS SHEET.
- F. IN ADDITION TO THE LOCAL SWITCHES SHOWN, PROVIDE A COMPLETE OCCUPANCY SENSOR AND RELAY PANEL BASED AUTOMATIC LIGHTING CONTROL SYSTEM. SYSTEM SHALL BE AS DESCRIBED IN SPECIFICATION SECTION 260500. DEVICES INDICATED ON PLAN ARE FOR REFERENCE ONLY. SYSTEM SHALL BE LAYED OUT ON A PERFORMANCE BASIS, TYPICAL FOR ALL ROOMS/AREAS AS SPECIFIED.
- G. ALL WIRING SHALL BE SIZED PROPERLY FOR FULL COMPLIANCE WITH THE NEC REQUIREMENTS FOR AMPACITY AND MAXIMUM VOLTAGE DROP LIMITATIONS.
- H. COORDINATE LOCATION OF ALL SWITCHES WITH DOOR LOCATIONS SHOWN ON THE ARCHITECTURAL PLANS.
- I. ALL LIGHTING FIXTURES SHALL BE EQUIPPED WITH LENSES OR SHIELDS FOR PROTECTION OF THE LAMPS OR WITH LAMPS THAT WILL NOT SHATTER.
- J. PROPOSED EQUAL LIGHTING FIXTURES TO BE SUBMITTED FOR ENGINEER & ARCHITECT/OWNERS REVIEW AND APPROVAL PRIOR TO BID.
- K. FOR ALL ROOMS WITH MECHANICAL EQUIPMENT (FURNACE ROOMS, MECHANICAL ROOMS AND CLOSETS ETC.) EXACT LOCATIONS FOR LIGHTING FIXTURES TO BE COORDINATED WITH DUCTWORK AND PIPING.
- L. REFER TO ENLARGED UNIT PLANS SHEET E.401 FOR UNITS TYPICAL LIGHTING LAYOUTS.
- M. ALL ELECTRICAL DEVICES SHALL BE LISTED FOR THE INTENDED USE.

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KEY PLAN

OWNER

Green Oak Charter
Township

PROJECT NAME

Green Oak
Fire Station No. 81

9384 Whitmore Lake Road
Brighton, MI 48116

PROJECT NO.

19-129

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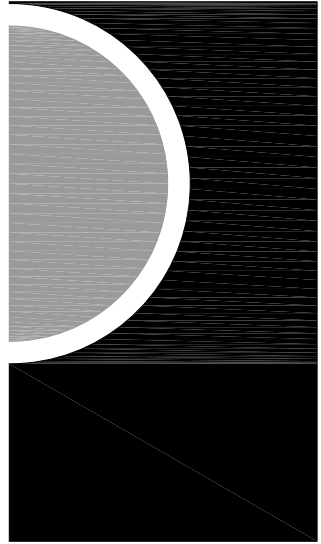
EK

SHEET NAME

FLOOR PLANS -
LIGHTING

SHEET NO.

E2-00



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ADDENDUM # 1 04-20-2020

CCD #1 06-03-2020

CCD #2 06-16-2020

CCD #4 09-01-2020

DRAWN BY

NH

CHECKED BY

EK

APPROVED BY

EK

SHEET NAME

FLOOR PLANS -
POWER

SHEET NO.

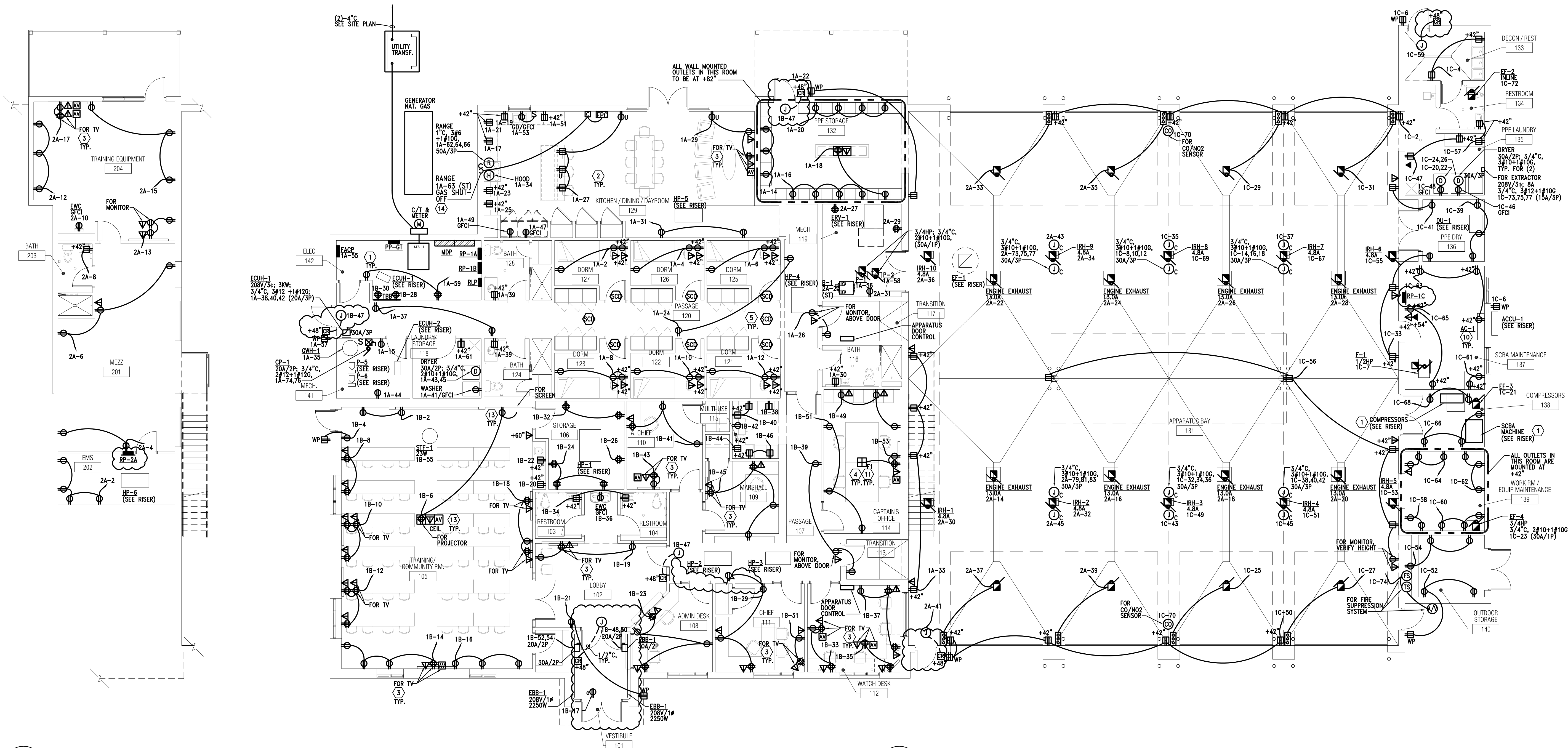
E3-00

KEYED POWER NOTES:

- 1 EXACT LOCATION AND REQUIREMENTS FOR EQUIPMENT TO BE COORDINATED WITH EQUIPMENT VENDOR. APPROVED SUBMITTALS AND NAMEPLATE DATA. INFORMATION INDICATED ON THESE PLANS IS FOR REFERENCE ONLY.
- 2 ALL RECEPTACLES LOCATED WITHIN 6'-0" OF A WATER SOURCE AND ALL IN THE KITCHENS SHALL BE GFI TYPE. PROVIDE GFI RECEPTACLES REGARDLESS OF SYMBOL USED ON PLAN FOR THESE LOCATIONS. FOR LOCATIONS THAT ARE NOT ACCESSIBLE, LOCATE BLANK PLATE GFI ABOVE THE RECEPTACLE AT +42" AFF OR NEAR ROOM WALL SWITCH(ES) OR PROVIDE GFCI BRANCH BREAKERS IN PANELBOARDS AS DIRECTED BY OWNER TO COMPLY WITH NEC 210.8.
- 3 DUPLEX RECEPTACLES AND DATA OUTLETS FOR FLAT SCREEN TV SHALL BE MOUNTED AT 5'-0" AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT/OWNER FOR EXACT QUANTITIES, LOCATIONS AND MOUNTING HEIGHTS.
- 4 EXACT LOCATIONS FOR ALL FLOOR OUTLETS TO BE COORDINATED WITH ARCHITECT/OWNER.
- 5 PROVIDE (2)-20A/1P, 120V DEDICATED BRANCH CIRCUITS FOR ALL FIRE/SMOKE DAMPERS, WIRE TO RP-1A-** REFER TO PANEL SCHEDULES, COORDINATE AND REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES. NOT ALL FIRE/SMOKE DAMPERS ARE INDICATED ON THESE PLANS.
- 6 COORDINATE WITH MECHANICAL FOR EXACT REQUIREMENTS FOR FIRE PROTECTION SYSTEM, INCLUDING NUMBER OF FLOW/TAMPER SWITCHES.
- 7 PROVIDE POWER FOR DRY PIPE SYSTEM COMPRESSOR, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR. LOCATION INDICATED ON PLAN IS FOR REFERENCE ONLY.
- 8 EXACT LOCATIONS FOR FIRE ALARM CONTROL AND ANNUNCIATOR PANELS AND SECURITY SYSTEM PANELS TO BE COORDINATED WITH ARCHITECT/OWNER. PROVIDE FLUSH MOUNTING FOR ALL, UNLESS LOCATED IN UNFINISHED SPACES.
- 9 EXACT LOCATIONS FOR ALL ELECTRICAL EQUIPMENT TO BE COORDINATED, REFER TO GENERAL NOTE-F.
- 10 INDOOR AC UNIT IS FED FROM THE OUTDOOR ACCU UNIT, COORDINATE WITH MECHANICAL FOR COMPLETE INSTALLATION REQUIREMENTS, INCLUDING INTERWIRING OF THE UNIT.
- 11 RUN 1 1/4" C FROM LOW VOLTAGE COMPARTMENT BETWEEN FLOOR BOX AND MONITOR BOX, RUN CONCEALED IN CEILING AND WALL- COORDINATE WORK WITH SUITE BELOW.
- 12 FOR ALL CARD READERS PROVIDE DOUBLE GANG J-BOX WITH SINGLE MUD RING @48" AFF FOR CARD READER, RUN 1/2" C FROM CARD READER OR STRIKE ACTUATOR FOR LOW VOLTAGE WIRING. PROVIDE 120V POWER IN THE CEILING FOR STRIKE AS INDICATED. FOR MORE DETAILS REFER TO SHEET 15-01. ALSO PROVIDE REQUIRED WIRING FOR INTERCOM REMOTE UNLOCK SYSTEM. COORDINATE WITH DOOR INSTALLER. REFER TO ARCHITECTURAL PLANS AND DOOR HARDWARE SCHEDULES FOR EXACT LOCATIONS AND REQUIREMENTS. COORDINATE ALL WORK WITH ARCHITECT AND SECURITY/ACCESS CONTROL SYSTEM PROVIDER.
- 13 PROVIDE POWER, DATA/AV AND CONTROLS FOR PROJECTOR AND PROJECTION SCREEN. EXACT LOCATIONS AND REQUIREMENTS TO BE COORDINATED WITH ARCHITECT/OWNER.
- 14 PROVIDE RED MUSHROOM EMERGENCY POWER ON/OFF BUTTON AND ALL REQUIRED BRANCH CIRCUIT TRANSFORMER, CONTACTORS, BOXES ETC. TO SHUT-OFF GAS RANGE SOLENOID VALVE, INTERLOCK GAS SOLENOID SHUT-OFF VALVE WITH FIRE ALARM SYSTEM, COORDINATE ALL REQUIREMENTS.

GENERAL POWER NOTES:

- A. REFER TO SHEET E.001 FOR ELECTRICAL LEGEND.
- B. PROVIDE COMPLETE ADDRESSABLE FIRE ALARM SYSTEM FOR THE BUILDING. FIRE ALARM SYSTEM SHALL INCLUDE ALL CONTROL, MONITORING, POWER SUPPLIES, INITIATING DEVICES, INDICATING APPLIANCES, CONTROL MODULES AND WIRING AS REQUIRED BY AUTHORITIES HAVING JURISDICTION FOR AN APPROVED INSTALLATION. REFER TO SPECIFICATIONS. SYSTEM SHALL BE LAYED OUT ON A PERFORMANCE BASIS, DEVICES INDICATED ON PLANS ARE FOR REFERENCE ONLY.
- C. PROVIDE FIRE STOPPING SYSTEM WHERE REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATING OF THE ASSEMBLIES.
- D. EXACT LOCATIONS AND REQUIREMENTS FOR ALL EQUIPMENT SHALL BE VERIFIED WITH ARCHITECT/OWNER AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- E. COORDINATE EXACT LOCATIONS, MOUNTING HEIGHTS & REQUIREMENTS FOR ALL DEVICES WITH LATEST ARCHITECTURAL FURNITURE & EQUIPMENT LAYOUTS & ELEVATIONS.
- F. COORDINATE EXACT LOCATIONS FOR ALL ELECTRICAL EQUIPMENT, PANELBOARDS, DISCONNECTS, STARTERS, CONTROL, PANELS, ETC. WITH ARCHITECTURAL PLANS AND ALL OTHER TRADES INCLUDING MECHANICAL TO MAINTAIN REQUIRED WORKING CLEARANCES AND DEDICATED EQUIPMENT SPACE. DETERMINE EXACT LOCATIONS AND VERIFY WITH ALL OTHER TRADES PRIOR TO BEGINNING OF CONSTRUCTION TO AVOID INTERFERENCES WITH MECHANICAL, STRUCTURAL, ETC.
- G. MAINTAIN A MINIMUM OF 24" HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED ON OPPOSITE SIDES OF FIRE RATED WALLS TO COMPLY WITH NEC 300.21.
- H. ALL WIRING DEVICES SHALL BE OF TAMPER RESISTANT CONSTRUCTION AND WITH AFCI PROTECTION.
- I. ALL DEVICES AT COUNTER LOCATIONS TO BE MOUNTED ABOVE THE COUNTER AT +42" AFF OR AS NOTED ON THESE PLANS. COORDINATE WITH ARCHITECT/OWNER AND MILLWORK CONTRACTOR FOR EXACT LOCATIONS.
- J. LOCATE DISCONNECT SWITCHES FOR MECHANICAL AND BUILDING EQUIPMENT TO MAINTAIN WORKING CLEARANCES. LOCATIONS ON THESE PLANS ARE FOR REFERENCE ONLY.
- K. GROUND FAULT PROTECTION FOR DEVICES INSTALLED AT LOCATIONS NOT READILY ACCESSIBLE. PROVIDE GROUND FAULT BLANK FACE DEVICE AT ACCESSIBLE LOCATION OR PROVIDE GFI BRANCH BREAKER IN PANELBOARD.
- L. ALL ROOF MOUNTED EQUIPMENT TO BE NEMA 3R WEATHERPROOF RATED, INCLUDING STARTERS, DISCONNECTS, ETC.



2 Mezzanine Level Floor Plan - Power
1/8" = 1'-0"

1 Main Level Floor Plan - Power
1/8" = 1'-0"

When signed by the Owner and Architect and received by the Contractor, this document becomes effective IMMEDIATELY as a Construction Change Directive (CCD), and the Contractor shall proceed with the change(s) described above.

Contractor signature indicates agreement with the proposed adjustments in Contract Sum and Contract Time set forth in this CCD.

PARTNERS in Architecture, PLC

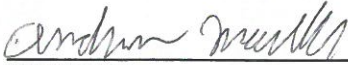
Highland Township

Axiom Construction Services Group, LLC

ARCHITECT (Firm name)

OWNER (Firm name)

CONTRACTOR (Firm name)



SIGNATURE

SIGNATURE

SIGNATURE

Andrew Markle

Ken Chapman, Fire Chief

Deib Mougrabi, Director of Field Operations

PRINTED NAME AND TITLE

PRINTED NAME AND TITLE

PRINTED NAME AND TITLE

9/1/2020

DATE

DATE

DATE